LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

Periodic Review Report

Location:

Former Roblin Steel Site
320 South Roberts Road, Dunkirk, New York
NYSDEC Site No. B00173-9

Prepared for:

Chautauqua County Department of Public Facilities
454 North Work Street
Falconer, New York

LaBella Project No. 2160148

December 2015

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1.0 EXECUTIVE SUMMARY

This Periodic Review Report (PRR) is a required element of the approved Site Management Plan (SMP) for the former Roblin Steel Site in Dunkirk, New York. The Site was remediated in accordance with State Assistance Contract (SAC) No. C302808, Site No. B00173-9, which was executed on December 12, 2005.

1.1 Site Summary

The former Roblin Steel Site (hereafter referred to as the "Site") occupies approximately 12 acres of an inactive industrial park in the City of Dunkirk, Chautauqua County, New York. Historically, the Site contained an 88,500-square foot facility building that was demolished as part of the 2010 remedial activities. The Site is located in an area zoned for industrial use. An environmental investigation conducted at the Site revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The remedial activities were completed pursuant to the Environmental Restoration Program (ERP) component of Title 5 of the Clean Water/Clean Air Bond Act of 1996, which was administered by the New York State Department of Environmental Conservation (NYSDEC). Following completion of the remedial work described in the Remedial Action Work Plan (RAWP), some contamination was left in the subsurface of the Site, which is hereafter referred to as "remaining contamination." The remedial efforts also included development of a SMP to manage the remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement that was placed on the Site, in accordance with Environmental Conservation Law (ECL) Article 71, Title 36.

1.2 Effectiveness of Remedial Program

Based on a recent inspection of the Site, the Site soil cover system is intact and functioning as designed. Additionally, recent groundwater sampling results indicate that total VOC concentrations at the Site have generally decreased over time.

1.3 Non-Compliance

Excavation spoils generated from off-site sources during the construction of Millennium Parkway in Summer/Fall 2014 have been stockpiled on the western portion of the Site. This material was not properly analyzed per NYSDEC DER-10 requirements prior to its placement at the Site; therefore, the Site is not in compliance with the SMP. Additionally, the stockpile is not in compliance with the Master Erosion Control Plan (MECP) as the pile crosses the western Site boundary and extends onto the west adjoining property (known as the Edgewood Property). Per the MECP, no stockpiled material is permitted within 50 feet of the Site parcel boundaries.

To address this non-compliance, Chautauqua County commissioned a Corrective Action Work Plan (CAWP) for the stockpiled material that was approved by the NYSDEC (see Appendix 5). Chautauqua County has initiated the implementation of the CAWP and is awaiting the results of the stockpile characterization efforts. The final disposition and use of the stockpiled material will be determined based upon the characterization data. Once the remaining tasks identified in the CAWP are accomplished, a summary report documenting and verifying that the corrective measures were completed in accordance with the DEC-approved CAWP will be submitted. Figures detailing the Site plan, contours, and profile of existing soil will be included.

No other areas of non-compliance regarding the major elements of the SMP were identified during the preparation of this PRR.

1.4 Recommendations

Overall, the remedial program is viewed to be effective in achieving the remedial objectives for the Site. Thus, no changes to the SMP or the frequency of PRR submissions are recommended at this time.

2.0 SITE OVERVIEW

The Site is located at 320 South Roberts Road in the City of Dunkirk, New York. Figure 1 shows the location of the Site and Figure 2 is the Site plan which depicts the location of the sampled wells. Millennium Parkway now transects the eastern portion of the Site in a northeast-southwest direction. As a result, a portion of the Site is located east of the new roadway and separated from the remainder of the Site. The Site is located in an area zoned for industrial use. A mixture of commercial, industrial and residential properties comprise the land use in the Site's vicinity. The Site is bounded to the north by an active CSX rail yard; to the east by active Norfolk Southern railroad tracks; to the south by the former Alumax extrusions property; and to the west by the Edgewood property. Residential properties are located to the northwest and south of the Site beyond the adjoining properties. Lake Erie is approximately 4,000 feet to the northwest of the Site. Hyde Creek is located approximately 100 feet from the northeast corner of the Site.

2.1 Site Background

The Site occupies approximately 12 acres of an inactive industrial park. Historically, the Site contained an 88,500-square foot facility building. The building was demolished as part of the 2010 remedial activities. The adjoining properties located in the industrial park include the former Alumax Extrusions property located to the south and the Edgewood property located to the west. In 1910, all three of these properties were developed as part of a larger industrial complex operated by the American Locomotive Company (ALCO). The Site was later used for steel reclamation; however, operations ceased in 1987. Following this closure, salvage operations dismantled and partially demolished a majority of the Site structures throughout the late 1980s and early 1990s. Since that time, the Site has been vacant.

Following acquisition of the Site by Chautauqua County in December 2001, the site was investigated and remediated pursuant to the SAC executed between the County and NYSDEC. The remediation of the site was completed in September 2010, and rendered the site suitable for commercial or industrial use. Details pertaining to the remedial investigation and remedial construction program completed at the Site are summarized in Section 2.2 below.

In May 2013, the Millennium Parkway construction project was initiated. The alignment of the new roadway passes through the Site. The soil cover system established as part of the remediation at the Site was disturbed in conjunction with the construction of the new Millennium Parkway Talcott Street Extension (Millennium Parkway) project in Summer/Fall 2014. Disturbance of the soil cover was completed in accordance with the provisions of the Excavation Work Plan (EWP) of the SMP. The cover system was restored by the end of 2014 in accordance with the Record of Decision (ROD) and the SMP upon completion of the new roadway.

2.2 Remedial Program Overview

As indicated above, a remedial investigation was conducted at the Site between 2002 and 2003. Such revealed that contamination associated with historical operations had impacted the Site, necessitating remedial activities. The NYSDEC issued a ROD in March 2005. The ROD identified seven impacted Media Groups (MGs) associated with the Site. The MGs included:

- Surface soil/fill debris piles;
- Subsurface soil/fill impacted with chlorinated VOCs;
- Subsurface soil/fill impacted with polyaromatic hydrocarbons (PAHs) and metals, and/or petroleum nuisance characteristics;
- Drainage features and contents;
- Building components;
- Concrete and surface soil impacted with polychlorinated biphenyls (PCBs); and,
- Groundwater impacted with VOCs.

The RAWP prepared in February 2006 described the specific remedial activities that would be implemented at the Site to complete the remediation in accordance with the ROD. The remediation program included two distinct types of activities; those that are related to the removal or treatment of contaminated material (Phase I) and those that are directly related to the redevelopment and reuse of the Site (Phase II). The Phase I components included:

- Excavation and off-site disposal of surface soil/fill that exceeded the Site-Specific Cleanup Levels (SSCLs);
- Excavation and off-site disposal of subsurface soil/fill that exceeded SSCLs;
- Cleaning and filling of Site drainage features;
- Removal and disposal PCB-containing electrical equipment;
- Removal and disposal of miscellaneous Site debris;
- Decommissioning of monitoring wells that were not part of the long-term monitoring program; and,
- Enhanced natural attenuation of Site groundwater.

The Phase II activities included the following:

- Removal of asbestos-containing materials (ACMs);
- Demolition of the building;
- Removal and crushing of the concrete slabs and top 12 inches of the foundations followed by the placement and grading of the crushed concrete on the Site;
- Placement of a demarcation layer (orange fencing) on top of the original Site surface covered by 12 inches of clean DER-10 approved soil across the entirety of the Site; and
- Establishment of vegetative cover

Following completion of the remedial work described in the RAWP, some contamination may have been left in the subsurface of the Site. The remedial efforts also included development of the SMP to manage remaining contamination at the Site in perpetuity or until extinguishment of the Environmental Easement in accordance with ECL Article 71, Title 36.

3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

All remedial actions described in the RAWP were completed during Phase I and Phase II of the remedial program. Remedial goals were accomplished through the removal and off-site disposal of contaminated media exceeding the SSCLs; removal of PCB equipment; enhanced natural attenuation of the Site groundwater; removal of ACMs; demolition of the Site building; and the installation of the Site-wide cover system to prevent exposure to remaining contamination in the subsurface.

As indicated below in Section 4.1.2, the Site Soil Cover System was inspected on December 14, 2015, and was observed to be properly in-place and functioning as designed.

The results of the December 2015 groundwater sampling event revealed that total volatile organic compound (VOC) concentrations appear to be generally decreasing when compared to results from prior sampling events.

4.0 INSTITUTIONAL/ENGINEERING CONTROL (IC/EC) PLAN COMPLIANCE REPORT

4.1 IC/EC Requirements and Compliance

4.1.1 IC Requirements-Site Restrictions

In accordance with the SMP, the Site has a series of ICs in the form of Site restrictions. Adherence to these ICs is required by the Environmental Easement. The Environmental Easement is described on the Boundary Survey of the Former Roblin Steel Site, included as Appendix 1. Site restrictions that apply are as follows:

- The Site may only be used for commercial or industrial use provided that the long-term ICs/ECs included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted, residential or restricted-residential use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- All future activities at the Site that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of groundwater underlying the Site is restricted as a source of potable or process water, without necessary water quality treatment, as determined by the Chautauqua County Department of Health;
- The potential for vapor intrusion must be evaluated for any buildings developed on the Site, and any potential impacts that are identified must be monitored and mitigated;
- The SMP will provide for the operation and maintenance of the components of the remedy;
- Vegetable gardens and farming on the Site are prohibited; and,
- The Site owner is required to provide an IC/EC certification, prepared and submitted by a professional engineer or environmental professional acceptable to the NYSEC annually or for a period to be approved by the NYSDEC, which will certify that the ICs and ECs put in place are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP.

4.1.2 Engineering Control-Soil Cover System

Exposure to the remaining contamination in soil/fill at the Site is prevented by a soil cover system that was previously placed over the Site. This cover system is comprised of a minimum of 12 inches of clean soil overlaying a demarcation layer (orange plastic mesh material) over the entire surface of the Site. The EWP, which appears in Appendix A of the SMP, outlines the procedures that are required to be implemented in the event the cover system is breached, penetrated or temporarily removed, and any underlying remaining contamination is disturbed. The cover system is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in perpetuity.

On December 14, 2015, Mr. Chris Kibler of LaBella conducted the annual Site inspection, which included traversing the Site on foot to observe the current conditions. The Cover Inspection Form is included herein as Appendix 2. The Site is generally vacant and undeveloped, with vegetated soil cover occurring at the ground surface. During the Site inspection, a soil stockpile was observed on the western portion of the Site and extending onto the west-adjoining Edgewood property. The stockpile reportedly contains approximately 17,500 cubic yards of excavation spoils generated from off-site locations during the construction of the Millennium Parkway and Talcott Street extension project.

The Millennium Parkway crosses through the Site in northeast-southwest direction. At the time of the Site inspection, the floor and walls of the storm water ditches associated with this roadway were covered with a course, low-lying vegetation. No evidence of erosion or exposed synthetic erosion control fabric was observed within or adjacent to the ditches. Furthermore, the asphalt road surface was observed to be in very good condition.

Appendix 3 includes photographs taking during the Site inspection.

4.1.3 Engineering Control-Sub-Slab Vapor Venting System

No sub-slab vapor venting system (SSVVS) was installed as part of the Site remedy. However, any potentially new structures constructed on the Site as part of Site redevelopment may be equipped with a SSVVS, if warranted. The design and sampling of the SSVVS will be performed in accordance with NYSDEC and New York State Department of Health (NYSDOH) guidance at the time the system is installed. The ultimate design of the SSVS will be dependent upon the size and configuration of any newly constructed buildings. Therefore, the specific components of the SSVS have not been determined.

4.2 IC/EC Certification

The IC/EC Certification Form could not be completed in its entirety due to non-compliance with the SMP associated with the stockpiled excavation spoils present on the Site. The form has been filled out accordingly and has been included as Appendix 4.

5.0 MONITORING PLAN COMPLIANCE REPORT

5.1 Requirements

The Monitoring Plan is included in Section 3.0 of the SMP and describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected Site Media.

The Monitoring Plan describes the methods to be used for:

- Sampling and analysis of all appropriate media (e.g., groundwater, indoor air, soil vapor, soils);
- Assessing compliance with applicable NYSDEC standards, criteria and guidance, particularly ambient groundwater standards;
- Monitoring the cover system;
- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and,
- Preparing the necessary reports for the various monitoring activities.

To adequately address these issues, the Monitoring Plan provides information on:

- Sampling locations, protocol, and frequency;
- Information on all designed monitoring systems (e.g. well logs);
- Analytical sampling program requirements;
- Reporting requirements;
- Quality Assurance/Quality Control (QA/QC) requirements;
- Inspection and maintenance requirements for monitoring wells;
- Monitoring well decommissioning procedures; and,
- Annual inspection and periodic certification.

5.2 Groundwater Monitoring

The groundwater monitoring program is to be conducted on an annual basis for 30 years. Groundwater samples will be analyzed for VOCs appearing on the USEPA Target Compound List (TCL). Trends in contaminant levels in groundwater will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

5.2.1 Sampling Procedure

The eight groundwater monitoring wells (five downgradient wells (MW-01, MW-02R, MW-04, MW-12 and EX-MW12) and the three areas of groundwater with elevated chlorinated VOCs (MW-09R, MW-07R and EX-MW11R) were purged and sampled in general accordance with the procedures detailed in the November 2010 SMP. All monitoring well sampling activities were recorded in groundwater sampling logs, which are included as Appendix 6. Other observations (e.g. well integrity, etc.) were also noted on the well sampling logs. Prior to the initiation of groundwater sampling, groundwater levels were measured with an electronic water level indicator to determine the static water level below the ground surface elevation. The groundwater levels were used to determine the volume of standing water in the wells.

Well purging consisted of the evacuation of a minimum of three well volumes using NYSDEC-approved low-flow purging procedures via a Geotech Geopump II AC/DC Peristaltic Pump. After completion of development, the wells were allowed to recharge. The samples were collected within three hours of completion of well development using the low-flow method previously identified. Sample volumes were collected into clean sample bottles containing hydrochloric acid preservative provided by the laboratory. The groundwater samples were submitted for analysis of TCL VOCs via USEPA Method 8260.

5.2.2 Sample Preservation and Handling

Immediately after collection, all samples were placed in a cooler and chilled with ice. To ensure sample integrity, a Chain-of-Custody (COC) sample record was established and kept with the samples to document each person that handled the samples. The samples were transported to ALS Analytical, a NYSDOH Environmental Laboratory Accreditation Program (ELAP) certified laboratory for analysis. The COC records established for the collected samples were maintained throughout the laboratory handling. Copies of the COC and complete analytical laboratory report are included in Appendix 7.

5.2.3 Quality Assurance/Quality Control Samples

In addition to field samples, QA/QC samples were collected to evaluate the effectiveness of the QA/QC procedures implemented during the field and laboratory activities associated with the project. The QA/QC samples included a blind field duplicate (collected from EX-MW-11R) and a trip blank that were also analyzed for TCL VOCs.

5.2.4 Analytical Results

The following section summarizes and discusses the analytical results generated during the aforementioned monitoring event. For discussion purposes, this data is compared with the Standards Criteria and Guidance Values (SCGs) applicable to groundwater: NYSDEC's June 1998 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations in the Technical and Operational Guidance Series (TOGS) 1.1.1.

Table 1 summarizes the groundwater pre- and post-remedial sampling results and compares the results to applicable water quality standards. Figure 2 depicts the locations of the monitoring wells.

5.3 Comparisons with Remedial Objectives

As shown in Table 1, VOC concentrations identified in monitoring wells MW-01, MW-04, MW-12 and EX-MW12 are well below standards. LaBella will continue to evaluate these locations during future sampling events for any indication of trends.

One or more VOCs were detected at concentrations above standards in samples collected from monitoring wells MW-02R, MW-07R and EX-MW11R. However, total VOC concentrations in these wells have significantly decreased since previous sampling events. LaBella will continue to evaluate these locations during future sampling events for any indication of trends.

While a majority of the VOC concentrations identified in MW-09R are below standards, cis-1, 2-dichloroethene, cyclohexane, methyl cyclohexane and vinyl chloride were all identified above their respective regulatory values. Total VOC concentrations in this well have fluctuated over time, but are substantially lower than the maximum concentration detected at this location during the August 2010 sampling event.

A comparison of the results from EX-MW11R with the blind field duplicate indicates that the data generally coincide (i.e. all concentrations for the duplicate were within 1.5 times of the detected concentrations of the original sample). In addition, no VOC detections were identified within the Trip Blank analysis.

5.4 Monitoring Deficiencies

No monitoring deficiencies were noted during the completion of the PRR and annual sampling event.

5.5 Groundwater Monitoring Conclusions and Recommendations

If analytical results remain consistent for wells MW-01, MW-04 and MW-12, they should be considered for removal from the monitoring program. LaBella will continue to evaluate these locations during future sampling events for any indication of trends. While several VOC concentrations were detected above standards in MW-02R, MW-07R, EX-MW11R, total VOC concentrations for each of these wells have significantly decreased over time. Total VOC levels in MW-09R continue to fluctuate, but are well below the maximum concentration detected at this location. Based on this trend, no changes to the Monitoring Plan or the SMP are recommended at this time.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The Site cover system is in place and functioning as designed per the SMP. Total VOC concentrations in a majority of the Site wells have decreased over time. Continued evaluation of the Site wells is warranted; however, no changes to the Monitoring Plan or the SMP are recommended at this time. If trends persist, consideration should be given to removing MW-01, MW-04 and MW-12 from the monitoring program.

Chautauqua County is currently working to rectify the non-compliant issue related to the presence of the stockpiled material at the Site. Despite non-compliance with the SMP, the presence of the stockpile on top of the Site cover system is not anticipated to impact the integrity of the cover system. Efforts to resolve the situation are on-going and a solution will be implemented per the approved measures of the CAWP.

7.0 LIMITATIONS

The conclusions presented in this report are based on information gathered in accordance with generally acceptable professional consulting principles and practices. All conclusions reflect observable conditions existing at the time of the Site inspection. Information provided by outside sources (individuals, agencies, laboratories, etc.) as cited herein, was used in the assessment of the Site. The accuracy of the conclusions drawn from this assessment is, therefore, dependent upon the accuracy of information provided by these sources. Furthermore, LaBella is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to the performance of services.

This report is based upon the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. Professional judgments expressed herein are based upon the facts currently available with the limits of the existing data, scope of services, budget and schedule. To the extent that more definitive conclusions are desired by the Client than are warranted by the current available facts, it is specifically Labella's' intent that the conclusions and recommendations stated herein will be intended as guidance and not necessarily a firm course of action expect where explicitly stated as such. LaBella makes no warranties, expressed or implied including without limitation, warranties as to merchantability or fitness of a particular purpose. Furthermore, the information provided in this report is not be construed as legal advice.

This assessment and report have been completed and prepared on behalf of and for the exclusive use of Chautauqua County. Any reliance on this report by a third party is at such party's sole risk.

8.0 REFERENCES

DER10/Technical Guidance for Site Investigation and Remediation, NYSDEC, May 3, 2010

Environmental Easement for 320 South Roberts Road, Chautauqua County Clerk, June 2011

Environmental Remediation of the Former Roblin Steel Site, NYSDEC Site No. B00173-9, Final Engineering Report, TVGA Consultants, November 2010

Environmental Restoration Record of Decision, Former Roblin Steel Site, Site Number B-00173, NYSDEC Division of Environmental Remediation, March 2005

Excavation Work Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Master Erosion Control Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

Remedial Action Work Plan, TVGA Consultants, February 2006

Site Investigation/Remedial Alternatives Report, Former Roblin Steel Site, TVGA Consultants, December 2004

Site Management Plan, Former Roblin Steel Site, TVGA Consultants, November 2010

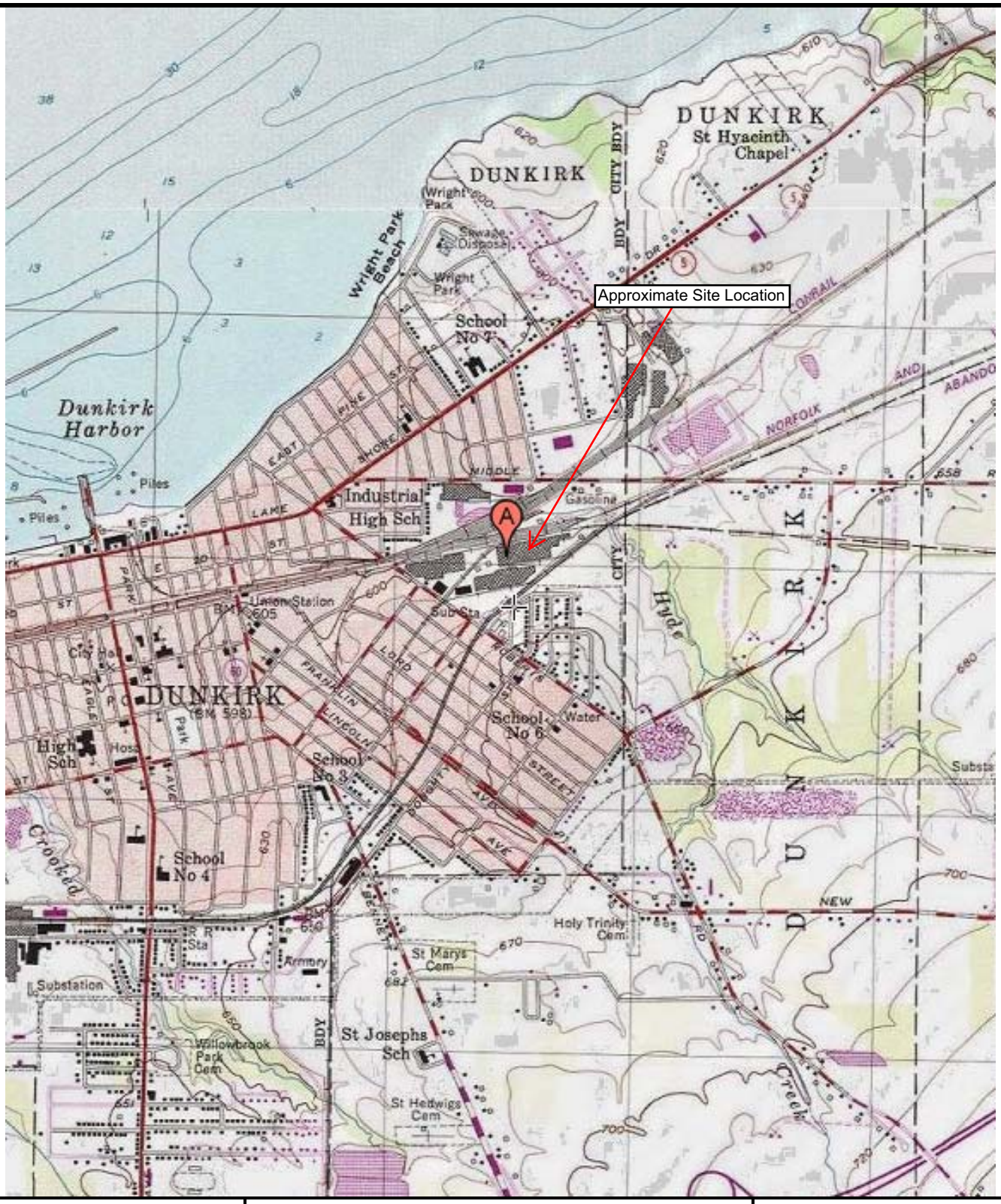
Periodic Review Report, Former Roblin Steel Site, KHEOPS Architecture, Engineering and Survey, DPC, August 22, 2014

Revised Corrective Action Work Plan, Former Roblin Steel Site, KHEOPS Architecture, Engineering and Survey, DPC, April 3, 2015

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FIGURES



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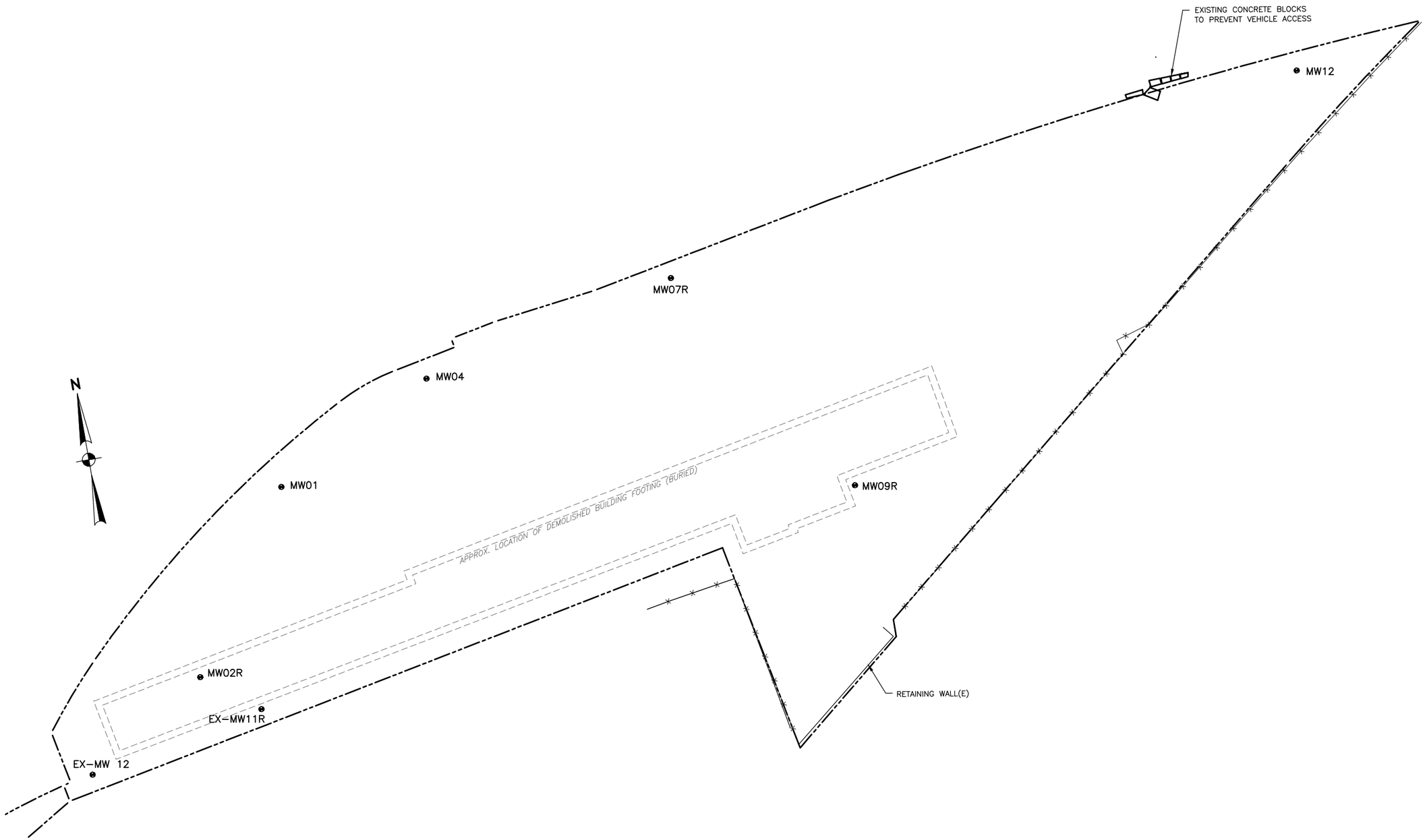
Not To Scale

FIGURE 1
SITE LOCATION MAP

Former Roblin Steel Site
320 South Roberts Road
Dunkirk, New York

LABELLA

PROJECT NO. 2160148



LEGEND

- MW09 — EXISTING MONITORING WELL
- APPROXIMATE PROPERTY LINES/PROJECT LIMITS

NOTES:

GROUNDWATER SAMPLING WAS PERFORMED IN DECEMBER 2015

60 0 60 120 FT.

1"=60'

REV	DESCRIPTION	DATE	BY

It is a violation of New York Education Law Article 145 Section 7209 for any person, unless acting under the direction of a licensed architect, engineer or land surveyor, to alter an item in any way. If an item bearing the stamp of a licensed architect, engineer or land surveyor is altered, the altering engineer, architect or land surveyor shall affix to the item their seal and the notation "altered by" followed by their signature and date of such alteration, and a specific description of the alteration.

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NEW YORK
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SITE PLAN
FORMER ROBLIN STEEL SITE
CITY OF DUNKIRK
CHAUTAUQUA COUNTY

SHEET REFERENCE NUMBER:

FIGURE 2

File: I:\Chautauqua County\2160148 - Annual Brownfield Inspection\Reports\Roblin 2015 PRR\FIGURE 2 Former Roblin GW SAMPLE RESULTS.dwg, Last saved: 1/6/2016, Plot Date: 1/6/2016, By: BENKLEMAN, ANDREW, Plot Style: LABELLA.CTB

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TABLE

Table 1
Former Roblin Steel Site
Summary of Analytical Results
Groundwater Samples

PARAMETER	REGULATORY VALUE	MW-01						MW-02R						MW-04					
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	10/11/02	2/10/09	8/10/10	8/21/13	7/15/14	12/15/15
Volatile Organic Compounds (ug/L)																			
1,1-Dichloroethene	5		NOT SAMPLED																
1,1-Dichloroethane	5						0.26												
cis-1,2-Dichloroethene	5						0.46	NA		21.3	10.1	6.27	18	NA					2.6
trans-1,2-Dichloroethene	5							NA						NA					
1,2-Dichloroethene (Total)	5							88		21.3									
1,2,4-Trimethylbenzene	5								10										
2-Butanone	50								33.5	129									
Acetone	50									21.7	12.3						43.8		
Benzene	1	1						18	7.92	37.3	18.2	22.7	3.5	6					
Carbon Disulfide	60						5.6												
Chloroethane	5										6.2								
Cyclohexane	5										32.8	43.3	6.3						
cis-1,3-Dichloropropene	0																		
Ethylbenzene	5								9.81	18.9	16.9	22.6	1.9	2					
Isopropylbenzene	5										2.53	3.12	0.61						
Methyl Cyclohexane	5						1				13.8	22.4	2.3						
n-Propylbenzene	5								2.57										
Tetrachloroethene	5																		
Toluene	5							24	7.19	101									
m,p-Xylene	5	NA						NA	7.62	73.2	2.45	9.81		NA					
o-Xylene	5	NA						NA	2.61	37.2		2.10		NA					
Total Xylenes	5	4						11	10.23	110.4				10					
Trichloroethene	5							32		3.31			0.25						
Vinyl chloride	2							31		5.34	12.5	9.13	26						0.49
Total VOCs	-	**5**	**0**	**0**	**0**	**0**	**7**	**204**	**91.45**	**579.95**	**127.78**	**141.43**	**59**	**18**	**0**	**0**	**43.8**	**0**	**3**

PARAMETER	REGULATORY VALUE	MW-07R						MW-09R						EX-MW-11R					
Collection Date		10/11/02	5/4/09	8/10/10	8/15/13	7/15/14	12/15/15	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15
Volatile Organic Compounds (ug/L)																			
1,1-Dichloroethene	5	15						3	2.02				2.3						4.6
1,1-Dichloroethane	5																		
cis-1,2-Dichloroethene	5	NA		904	128	584	17	NA	210	277	217	55.7	[1]1,200	NA	354	5,320	1,950	5,400	[1]990
trans-1,2-Dichloroethene	5	NA						NA	4.48	17.3			2.9	NA					3.3
1,2-Dichloroethene (Total)	5	1,500		904				380	214	294				41,000	354	5,320			
1,2,4-Trimethylbenzene	5								12.9										
2-Butanone	50									305									
Acetone	50									569									
Benzene	1	10	65	14			0.34	35	11.5	445	87.7	46.3	0.97						2.5
Carbon Disulfide	60																		
Chloroethane	5																		
Cyclohexane	5						0.72				208	155	15						16
cis-1,3-Dichloropropene	0		1,500																
Ethylbenzene	5	4						12	5.66	69.6	33.7	17.3	0.23						2.4
Isopropylbenzene	5												0.28						0.68
Methyl Cyclohexane	5		99				0.76				121	101	13						15
n-Propylbenzene	5																		
Tetrachloroethene	5		160				0.25						4.5						
Toluene	5	12	69	29.7				74	23.3	581									1.7
m,p-Xylene	5	NA	67	33.3				NA	20.5	239				NA					0.73
o-Xylene	5	NA						NA	11.5	128			0.23	NA					4.9
Total Xylenes	5	23	67	33.3				75	32	367									
Trichloroethene	5	56		49.2		55.9		450	135	585				150,000	168	4,630		4,510	36
Vinyl chloride	2	330	770	402	56.1	205	6.2	34	33		991	287	[1]310	9,800	27	638	881	1110	[1]520
Total VOCs	-	**1950**	**2797**	**2369.5**	**184.1**	**844.9**	**25**	**1063**	**716.34**	**3877.2**	**1658.4**	**662.3**	**1549**	**200,800**	**903**	**15908**	**2831**	**11020**	**1598**

PARAMETER	REGULATORY VALUE	MW-12						EX-MW-12					
Collection Date		10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15	10/11/02	2/10/09	8/10/10	8/15/13	7/15/14	12/15/15
Volatile Organic Compounds (ug/L)													
cis-1,2-Dichloroethene	5	NA	NOT SAMPLED				0.53	NA		7.6			0.73
trans-1,2-Dichloroethene	5	NA						NA					
1,2-Dichloroethene (Total)	5	150						150		7.6			
2-Butanone	50									31.3			
2-Hexanone	50									5.23			
Acetone	50									73.8			
Benzene	1	1						1		24.0	1.9	2.14	0.47
Ethylbenzene	5	1						1		18.5			
Toluene	5									48.7			
m,p-Xylene	5							NA		74.7			
o-Xylene	5							NA		40.4			
Total Xylenes	5									115.1			
Trichloroethene	5									8.96			
Vinyl chloride	2	200						200		27.2			
Total VOCs	-	**352**	**0**	**0**	**0**	**0**	**1**	**352**	**0**	**483.1**	**1.9**	**2.14**	**1**

Notes:
Regulatory values are derived from NYS Ambient Water Quality Standards TOGS 1.1.1 (Source of Drinking Water, groundwater).
(-) = No regulatory value is associated with this compound.
Shaded values represent exceedances of the regulatory value.
ug/L = micrograms per Liter (equivalent to parts per billion (ppb)).
Only compounds with one or more detections are shown.
Blank spaces indicate that the analyte was not detected.
"NA" = parameter was not analyzed
[1] = Result from a dilution factor of 10.

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APPENDIX 1

Boundary Survey-Former Roblin Steel Site

SCHEDULE 'A' DESCRIPTION

ALL BEARINGS IN THIS DESCRIPTION ARE REFERENCED TO A LOCAL SYSTEM AND DEEDED BEARINGS FROM A PRIOR SURVEY MADE BY MICHAEL J. ROGERS LAND SURVEYOR, PC, DATED NOVEMBER 28, 2001.

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF DUNKIRK, COUNTY OF CHAUTAUQUA AND STATE OF NEW YORK AND FURTHER BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A SET REBAR WITH CAP AT THE INTERSECTION OF THE NORTHWESTERLY RIGHT OF WAY LINE OF NORFOLK SOUTHERN RAILROAD, FORMERLY N. & W RAILROAD, FORMERLY NEW YORK, CHICAGO AND ST. LOUIS RAILROAD WITH THE SOUTHERLY RIGHT OF WAY LINE OF CSXT, FORMERLY CONRAIL, FORMERLY NEW YORK CENTRAL RAILROAD, FORMERLY ERIE RAILROAD, SAID LANDS REFERRED TO AS CSXT BEING LANDS CONVEYED BY CONSOLIDATED RAIL CORPORATION TO NEW YORK CENTRAL LINES, LLC BY QUIT CLAIM DEED DATED JUNE 1, 1999 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE IN LIBER 2418 OF DEEDS AT PAGE 620;
THENCE WESTERLY ALONG THE SOUTHERLY LINE OF SAID LINE ON A CURVE TO THE LEFT 642.74 FEET TO A POINT, SAID CURVE HAVING A RADIUS 5687.65 FEET AND A CHORD S86° -15'-29"W, 642.40 FEET; THENCE N08° -30'-04"W ALONG SAID SOUTHERLY LINE, 2.41 FEET TO A POINT; THENCE S81° -30'-00"W AND ALONG SAID SOUTHERLY LINE, 378.93 FEET TO A POINT; THENCE S86° -22'-00"W AND ALONG SAID SOUTHERLY LINE 121.88 FEET TO A POINT; THENCE S81° -30'-00"W ALONG SAID SOUTHERLY LINE 53.00' TO A POINT AT THE NORTHEASTERLY CORNER OF LANDS CONVEYED BY STANLEY A. STAR TO EDGEWOOD INVESTMENTS, INC. BY DEED DATED AUGUST 23, 1985 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE AUGUST 26, 1985 IN LIBER 2063 OF DEEDS AT PAGE 488; THENCE S08° -30'-00"E ALONG THE SOUTHERLY LINE OF SAID EDGEWOOD INVESTMENTS, INC., 10.97 FEET TO A POINT; THENCE S81° -30'-00"W AND ALONG SAID SOUTHERLY LINE 77.46 FEET TO A POINT; THENCE CONTINUING WESTERLY AND ALONG THE SAID SOUTHERLY LINE ON A CURVE TO THE LEFT 78.07 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF AFOREMENTIONED NEW YORK CENTRAL LINES, LLC, SAID CURVE HAVING A RADIUS OF 260.49 FEET AND A CHORD BEARING OF S73° -08'-00"W, 75.80 FEET; THENCE SOUTHWESTERLY AND ALONG THE SOUTHEASTERLY SAID LINE ON A CURVE TO THE LEFT, 419.75 FEET TO A POINT, SAID CURVE HAVING A RADIUS OF 1364.49 FEET AND A CHORD BEARING OF S56° -09'-30"W, 418.10 FEET; THENCE CONTINUING SOUTHWESTERLY ALONG THE SOUTHEASTERLY SAID LINE ON A CURVE TO THE TO THE LEFT 98.22 FEET TO A POINT, SAID CURVE HAVING A RADIUS OF 757.76 FEET AND A CHORD BEARING OF S43° -23'-00"W, 98.15 FEET; THENCE S08° -25'-00"E, ALONG THE SAID EASTERLY LINE 62.51 FEET TO A POINT; THENCE S79° -11'-00"W, ALONG THE SAID SOUTHERLY LINE 8.91 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF AGREEMENTONED EDGEWOOD INVESTMENTS, INC.; THENCE S08° -39'-00"E, ALONG THE EASTERLY SAID LINE, 19.90 FEET TO A POINT AT THE NORTHWESTERLY CORNER OF LANDS CONVEYED BY COUNTY OF CHAUTAUQUA INDUSTRIAL DEVELOPMENT AGENCY TO ALUMAX EXTRUSIONS, INC. BY DEED DATED AUGUST 25, 1995 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE IN LIBER 2301 OF DEEDS AT PAGE 874; THENCE N81° -31'-00"E, ALONG THE SAID NORTHERLY LINE 822.00 FEET TO A POINT; THENCE S 08° -29'-00"E, ALONG THE SAID EASTERLY LINE 251.95 FEET TO A POINT ON THE NORTHWESTERLY RIGHT OF WAY LINE OF NORFOLK SOUTHERN RAILROAD; THENCE N53° -33'-00"E, ALONG THE NORTHWESTERLY SAID LINE 172.65 FEET TO A POINT; THENCE N53° -35'-00"E, ALONG THE NORTHWESTERLY SAID LINE 524.58 FEET TO A POINT; THENCE N53° -35'-00"E, ALONG THE NORTHWESTERLY SAID LINE ON A CURVE TO THE RIGHT 228.79 FEET, SAID CURVE HAVING A RADIUS OF 2915.00 FEET AND A CHORD BEARING OF N55° -38'-00"E, 228.73 FEET TO THE POINT OF BEGINNING CONTAINING 11.83± ACRES.

TOGETHER WITH THE BENEFITS AND SUBJECT TO ANY BURDENS OF AN AGREEMENT MADE BETWEEN ALLEGHENY LUDLUM INDUSTRIES, INC. AND PROGRESS PARK, INC. DATED MAY 1, 1963 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE ON MAY 2, 1963 IN LIBER 1215 OF DEEDS AT PAGE 477, AND THE PARTY OF THE SECOND PART HEREBY ASSUMES ALL OF THE OBLIGATIONS OF THE PARTY OF THE FIRST PART RELATING TO THE RIGHTS UNDER SAID AGREEMENT WHICH ARE TRANSFERRED AND CONVEYED BY THIS DEED AND PARTY OF THE SECOND PARTAHONS IN THE EXECUTION OF THIS DEED AS EVIDENCE OF SUCH ASSUMPTION.

ALSO TOGETHER WITH THE BENEFITS AND SUBJECT TO ANY BURDENS OF A PARTY WALL AGREEMENT MADE BETWEEN ALLEGHENY LUDLUM INDUSTRIES, INC. AND PROGRESS PARK, INC., DATED MAY 1, 1963 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE ON MAY 2, 1963 IN LIBER 1215 OF DEEDS AT PAGE 482.

ALSO TOGETHER WITH THE BENEFITS AND SUBJECT TO ANY BURDENS OF AN EASEMENT AGREEMENT MADE BETWEEN PROGRESS PARK, INC. AND ALLEGHENY LUDLUM INDUSTRIES, INC. WITH NIAGARA MOHAWK POWER CORPORATION, DATED MAY 1, 1963 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE IN LIBER 1215 OF DEEDS AT PAGE 453.

ALSO TOGETHER WITH THE BENEFITS AND SUBJECT TO ANY BURDENS OF ANY OTHER EASEMENTS, COVENANTS, AGREEMENTS, OR RIGHT OF WAY OF RECORD, AFFECTING THE SAID PREMISES, OR ANY PART THEREOF, AS WELL AS ANY OTHER MATTERS OF RECORD AFFECTING THE SAID PREMISES, OR ANY PART THEREOF.

ALSO TOGETHER WITH THE BENEFITS AND SUBJECT TO ANY BURDENS OF THE FOLLOWING UNRECORDED AGREEMENTS, TO THE EXTENT OPERATIVE:

1—EASEMENT FOR SIDETRACK PURPOSES GIVEN BY ERIE RAILROAD COMPANY TO AMERICAN LOCOMOTIVE COMPANY, DATED DECEMBER 23, 1952.

2. LICENSE AGREEMENT DATED MARCH 28, 1938 GIVEN BY ERIE RAILROAD COMPANY TO AMERICAN LOCOMOTIVE COMPANY TO INSTALL TIE DRAIN UNDER TRACKS AND LANDS OF RAILROAD AS AMENDED BY INSTRUMENT DATED DECEMBER 27, 1957.

3—AGREEMENT DATED SEPTEMBER 4, 1951 BY ERIE RAILROAD TO AMERICAN LOCOMOTIVE COMPANY TO OPERATE OVER AND USE OF SIDE TRACK FACILITIES.

4—AGREEMENT DATED DECEMBER 12, 1951 BETWEEN ERIE RAILROAD TO ALCO PRODUCTS, INC. FOR SIDE TRACK FACILITIES.

ALSO TOGETHER WITH AND SUBJECT TO AN EASEMENT FOR INGRESS AND EGRESS THE CENTER OF WHICH IS DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE CITY OF DUNKIRK, COUNTY OF CHAUTAUQUA AND STATE OF NEW YORK AT A POINT IN THE CENTERLINE OF THE EXISTING 30.3 +OOS PAVEMENT IN ROBERTS ROAD AND DISTANT 144.53 FEET NOT +44'-00"W ALONG THE SAID CENTERLINE FROM THE INTERSECTION THEREOF WITH THE NORTHWESTERLY LINE OF LANDS OF THE NEW YORK, CHICAGO & ST. LOUIS RAILROAD COMPANY (NORFOLK SOUTHERN); THENCE N35° -15'-00"E, A DISTANCE OF 114.28 FEET TO AN IRON PIN, PASSING THROUGH AN IRON PIN, LOCATED 14 FEET NORTHEASTERLY ALONG THE LAST DESCRIBED COURSE FROM SAID CENTERLINE IN ROBERTS ROAD; THENCE N08° -39' 00"W, A DISTANCE OF 514.37 FEET TO AN IRON PIN WHICH IS THE BEGINNING POINT OF THE CENTERLINE OF THE EASEMENT TO BE DESCRIBED; THENCE ALONG SUCH CENTERLINE N81° -31'-00"E, A DISTANCE OF 822.00 FEET TO AN IRON PIN.

ALSO TOGETHER WITH AND SUBJECT TO ANY RIGHT OF WAY FOR NGRESS AND EGRESS FROM ROBERTS ROAD TO THE ABOVE DESCRIBED PREMISES.

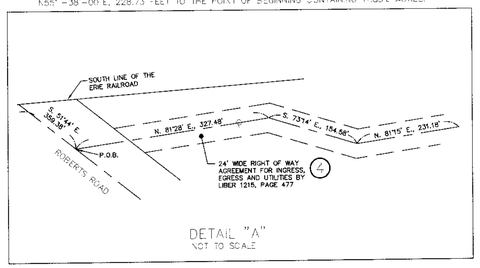
ALSO TOGETHER WITH AND SUBJECT TO ANY RIGHT OF WAY FOR NGRESS AND EGRESS FROM MIDDLE ROAD TO THE ABOVE DESCRIBED PREMISES.

ENVIRONMENTAL EASEMENT AREA DESCRIPTION

ALL BEARINGS IN THE DESCRIPTION ARE REFERENCED TO A LOCAL SYSTEM AND DEEDED BEARINGS FROM A PRIOR SURVEY MADE BY MICHAEL J. ROGERS LAND SURVEYOR, PC, DATED NOVEMBER 28, 2001.

ALL THAT TRACT OR PARCEL OF LAND SITUATE IN THE CITY OF DUNKIRK, COUNTY OF CHAUTAUQUA AND STATE OF NEW YORK AND FURTHER BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A SET REBAR WITH CAP AT THE INTERSECTION OF THE NORTHWESTERLY RIGHT OF WAY LINE OF NORFOLK SOUTHERN RAILROAD, FORMERLY N. & W RAILROAD, FORMERLY NEW YORK, CHICAGO AND ST. LOUIS RAILROAD WITH THE SOUTHERLY RIGHT OF WAY LINE OF CSXT, FORMERLY CONRAIL, FORMERLY NEW YORK CENTRAL RAILROAD, FORMERLY ERIE RAILROAD, SAID LANDS REFERRED TO AS CSXT BEING LANDS CONVEYED BY CONSOLIDATED RAIL CORPORATION TO NEW YORK CENTRAL LINES, LLC BY QUIT CLAIM DEED DATED JUNE 1, 1999 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE IN LIBER 2418 OF DEEDS AT PAGE 620;
THENCE WESTERLY ALONG THE SOUTHERLY LINE OF SAID LINE ON A CURVE TO THE LEFT 642.74 FEET TO A POINT, SAID CURVE HAVING A RADIUS 5687.65 FEET AND A CHORD S86° -15'-29"W, 642.40 FEET; THENCE N08° -30'-04"W ALONG SAID SOUTHERLY LINE, 2.41 FEET TO A POINT; THENCE S81° -30'-00"W AND ALONG SAID SOUTHERLY LINE, 378.93 FEET TO A POINT; THENCE S86° -22'-00"W AND ALONG SAID SOUTHERLY LINE 121.88 FEET TO A POINT; THENCE S81° -30'-00"W ALONG SAID SOUTHERLY LINE 53.00' TO A POINT AT THE NORTHEASTERLY CORNER OF LANDS CONVEYED BY STANLEY A. STAR TO EDGEWOOD INVESTMENTS, INC. BY DEED DATED AUGUST 23, 1985 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE AUGUST 26, 1985 IN LIBER 2063 OF DEEDS AT PAGE 488; THENCE S08° -30'-00"E ALONG THE SOUTHERLY LINE OF SAID EDGEWOOD INVESTMENTS, INC., 10.97 FEET TO A POINT; THENCE S81° -30'-00"W AND ALONG SAID SOUTHERLY LINE 77.46 FEET TO A POINT; THENCE CONTINUING WESTERLY AND ALONG THE SAID SOUTHERLY LINE ON A CURVE TO THE LEFT 78.07 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF AFOREMENTIONED NEW YORK CENTRAL LINES, LLC, SAID CURVE HAVING A RADIUS OF 260.49 FEET AND A CHORD BEARING OF S73° -08'-00"W, 75.80 FEET; THENCE SOUTHWESTERLY AND ALONG THE SOUTHEASTERLY SAID LINE ON A CURVE TO THE LEFT, 419.75 FEET TO A POINT, SAID CURVE HAVING A RADIUS OF 1364.49 FEET AND A CHORD BEARING OF S56° -09'-30"W, 418.10 FEET; THENCE CONTINUING SOUTHWESTERLY ALONG THE SOUTHEASTERLY SAID LINE ON A CURVE TO THE TO THE LEFT 98.22 FEET TO A POINT, SAID CURVE HAVING A RADIUS OF 757.76 FEET AND A CHORD BEARING OF S43° -23'-00"W, 98.15 FEET; THENCE S08° -25'-00"E, ALONG THE SAID EASTERLY LINE 62.51 FEET TO A POINT; THENCE S79° -11'-00"W, ALONG THE SAID SOUTHERLY LINE 8.91 FEET TO A POINT AT THE NORTHEASTERLY CORNER OF AFOREMENTIONED EDGEWOOD INVESTMENTS, INC.; THENCE S08° -39'-00"E, ALONG THE EASTERLY SAID LINE, 19.90 FEET TO A POINT AT THE NORTHWESTERLY CORNER OF LANDS CONVEYED BY COUNTY OF CHAUTAUQUA INDUSTRIAL DEVELOPMENT AGENCY TO ALUMAX EXTRUSIONS, INC. BY DEED DATED AUGUST 25, 1995 AND RECORDED IN THE CHAUTAUQUA COUNTY CLERK'S OFFICE IN LIBER 2301 OF DEEDS AT PAGE 874; THENCE N81° -31'-00"E, ALONG THE SAID NORTHERLY LINE 822.00 FEET TO A POINT; THENCE S 08° -29'-00"E, ALONG THE SAID EASTERLY LINE 251.95 FEET TO A POINT ON THE NORTHWESTERLY RIGHT OF WAY LINE OF NORFOLK SOUTHERN RAILROAD; THENCE N53° -33'-00"E, ALONG THE NORTHWESTERLY SAID LINE 172.65 FEET TO A POINT; THENCE N53° -35'-00"E, ALONG THE NORTHWESTERLY SAID LINE 524.58 FEET TO A POINT; THENCE N53° -35'-00"E, ALONG THE NORTHWESTERLY SAID LINE ON A CURVE TO THE RIGHT 228.79 FEET, SAID CURVE HAVING A RADIUS OF 2915.00 FEET AND A CHORD BEARING OF N55° -38'-00"E, 228.73 FEET TO THE POINT OF BEGINNING CONTAINING 11.83± ACRES.



DETAIL "A"
NOT TO SCALE

GENERAL NOTES

1. THE SUBJECT PROPERTY IS LOCATED IN ZONE C (AREA OF MINIMAL FLOODING) PER FIRM (FLOOD INSURANCE RATE MAP), COMMUNITY PANEL NO. 360137 0005 B, EFFECTIVE DATE FEBRUARY 04, 1981.
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.
3. CURRENT DESCRIPTION: FOR SUBJECT PROPERTY BY FORECLOSURE PROCEEDINGS AND RECORDED IN LIBER 2414 OF DEEDS AT PAGE 59 (TAX DIED) AND LIBER 2496 OF DEEDS AT PAGE 49 (TAX DEED), DESIGNATED AS CITY OF DUNKIRK TAX PARCEL SECTION 30, BLOCK 1, LOT 7.2.2, LOT SIZE 3.83 ACRES, MORE OR LESS, AND CITY OF DUNKIRK TAX PARCEL SECTION 30, BLOCK 1, LOTS 7 TO 10.1, NO DESCRIPTION OF PROPERTY CONTAINED IN DEED.
4. THE PROPERTY SHOWN HEREON IS SUBJECT TO ANY RIGHT OF WAY FOR INGRESS AND EGRESS FROM ROBERTS ROAD TO THE ABOVE DESCRIBED PROPERTY.
5. THE PROPERTY SHOWN HEREON IS SUBJECT TO ANY RIGHT OF WAY FOR INGRESS AND EGRESS FROM MIDDLE ROAD TO THE ABOVE DESCRIBED PROPERTY.

SURVEY CERTIFICATION

TO NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION,

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NSPS IN 2005 AND PURSUANT TO THE ACCURACY STANDARDS (AS A MINIMUM) BY ALTA AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION. THE UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DATED: _____

_____
BERNARD E. WELLS
PROFESSIONAL LAND SURVEYOR N.Y.S.P.L.S. #49408

SCHEDULE "B" ITEMS

SUBJECT TO THE FOLLOWING SCHEDULE "B" ITEMS PER REPORT OF TITLE ISSUED BY COMMONWEALTH LAND TITLE INSURANCE COMPANY, TITLE NO. 282765 DATED JULY 9, 2009:

2. AGREEMENT BETWEEN R.S. DEVELOPMENT CORP. & PROGRESS PARK, INC., BY LIBER 1215 OF DEEDS AT PAGE 482 BEING PARTICULAR TO THE RIGHT OF BUILDING ENCROACHMENT AND MAINTENANCE NO ENCROACHING BUILDINGS ON SITE AS OF DATE OF SURVEY. BUILDING AS REFERRED IN DEED POSSIBLY DEMOLISHED.

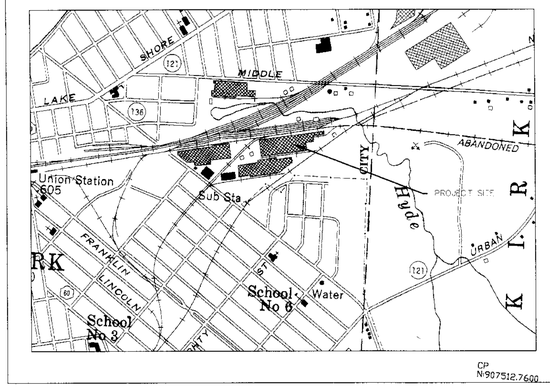
(3) 3. EASEMENT GRANTED TO NIAGARA MOHAWK POWER CORP. BY LIBER 1215 OF DEEDS AT PAGE 453 FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRIC ENERGY. EASEMENT INFORMATION AS PLOTTED HEREON, BUT NOT LIMITED TO AREA AS SHOWN, EASEMENT BLANKET IN NATURE AND EXTENDS RIGHTS THROUGHOUT ENTIRE SUBJECT PROPERTY.

(4) 4. AGREEMENT BETWEEN PROGRESS PARK, INC. & R.S. DEVELOPMENT CORP. BY LIBER 1215 OF DEEDS AT PAGE 477 AS PLOTTED HEREON.

5. AGREEMENT BETWEEN ALLEGHENY LUDLUM STEEL CORPORATION, PLYMOUTH TUBE CO., R.S. DEVELOPMENT CORP. & ROBLIN-SEAWAY INDUSTRIES, INC. BY LIBER 1370 OF DEEDS AT PAGE 456. FOR RAILROAD TRACK & SIDINGS PER DATE OF FIELD WORK NO EVIDENCE OF TRACK OR SIDING REMAIN ON SUBJECT PROPERTY.

6. AGREEMENT BETWEEN ALLEGHENY LUDLUM INDUSTRIES, INC. AND ROBLIN INDUSTRIES, INC. BY LIBER 1426 OF DEEDS AT PAGE 277. FOR RAILROAD TRACK & SIDINGS PER DATE OF FIELD WORK NO EVIDENCE OF TRACK OR SIDING REMAIN ON SUBJECT PROPERTY.

(7) 7. EASEMENT GRANTED TO THE CITY OF DUNKIRK FOR STORM SEWER BY LIBER 208 OF DEEDS AT PAGE 438 AS PLOTTED HEREON.



VICINITY MAP
NOT TO SCALE

ENGINEERING CONTROL NOTES:

Cover System: A cover system consisting of a minimum of 12 inches of clean soil with a demarcation layer will be constructed in a non-paved areas to prevent exposure to contaminated soils. Non-vegetated areas (i.e. buildings, roadways parking lots, etc.) will be covered by a paving system or concrete of at least 6 inches in thickness.

Sub-Slab Vapor Venting System: A sub slab vapor venting system (SSVVS) will be required to be installed in the existing building if the building will be used in the future. Additionally, any new structures constructed on the Site as part of site redevelopment may be equipped with a SSVVS, if warranted. The need for a SSVVS in new buildings will be based upon an evaluation to determine the potential for vapor intrusion into any new buildings. The design and sampling of the SSVVS will be performed in accordance NYSDEC and NYSDOH guidance at the time the system is installed. The ultimate design of the SSVVS will be dependent upon the reuse plans for the existing building as well as the size and configuration of any newly constructed buildings.

ABBREVIATIONS

EX. – EXISTING
RW. – RETAINING WALL
FNC. – FENCE
O.L. – ON LINE
U.P. – UTILITY POLE
REC. – RECORD
MS. – MEASURED
MW – MONITORING WELL
HYD. – HYDRANT
P.O.B. – POINT OF BEGINNING
OHW – OVERHEAD WIRES
CONC. – CONCRETE
GAS – GAS LINE MARKER

LEGEND

CONC MON	CONCRETE MONUMENT	MH	UNKNOWN MANHOLE
REBAR	REBAR	CBR	ROUND CATCH BASIN
IP	IRON PIPE	CB	CATCH BASIN
UP	UTILITY POLE	SMH	STORM MANHOLE
UP/L	UP/L	SAN MH	SANITARY MANHOLE
GUY	GUY WIRE	CO	CLEANOUT
HYD	HYDRANT	TBOX	TELEPHONE BOX
WM	WATER METER	EBOX	ELECTRIC BOX
WV	WATER VALVE	POST	POST
GLM	GASLINE MARKER	SIGN	ONE POST SIGN
GM	GAS METER	SIGN UP	ONE HEAD LIGHT POLE
GV	GASLINE VALVE	SIGN UP	TWO HEAD LIGHT POLE

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)
1 inch = 60 ft.

BY	DESCRIPTION	DATE
BEV	REVISED TO CURRENT SITE CONDITIONS	7/14/2010

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UNAUTHORIZED DUPLICATION IS A VIOLATION OF APPLICABLE LAWS

NOTE:
UNAUTHORIZED ALTERATION OR ADDITION TO THIS DESIGN DRAWING, DESIGN SPECIFICATION PLAN, OR REPORT IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

Designed by: JMD
Drawn by: RJM
Checked by: MVW
Field Date: 1/21/09
Office Date: 1/24/09
Job No. 2005.0708.00
Book: 192
Page: 84
Map: 53984
File Name: ROBLIN ALTA.dwg
Dwg. Scale: 1" = 60'
Horiz: 1"
Vert:

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1000 MAPLE ROAD
ELMA, NEW YORK 14059-9530
P. 716.655.8842
F. 716.655.0937
www.tvga.com

NEW YORK
CITY OF DUNKIRK

BOUNDARY SURVEY (ALTA)
FORMER ROBLIN STEEL SITE
CHAUTAUQUA COUNTY

MAP NUMBER:
FIGURE 2

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 2

Cover Inspection Form

COVER INSPECTION FORM
Former Roblin Steel Site

Property Name: Former Roblin Steel Site Inspection Date: 12-14-15/9:45am

Property Address: 320 South Roberts Road

City: Dunkirk State: NY Zip Code: 14048

Property ID: (Tax Assessment Map)

Section: 79.12 Block: 4 Lot(s): 29 and 30

Total Acreage: 16.5 acres

Weather (during inspection): Temperature: 62°F Conditions: Cloudy

SIGNATURE:

The findings of this inspection were discussed with appropriate personnel, corrective actions were identified and implementation was mutually agreed upon:

Inspector: Chris Hibbe Date: 12-14-15

Next Scheduled Inspection Date: Summer/Fall 2016

SECURITY AND ACCESS

	Yes	No
1. Access controlled by perimeter fencing?	-----	X
Are there sections of the fence material damaged or missing?	-----	-----
Are the fence or gate post foundations structurally sound?	-----	-----
2. "No Trespass" signs posted in appropriate languages?	-----	X
Are the signs securely attached to the fencing or posts?	-----	-----
Are there sufficient signs; are the signs adequately spaced around the perimeter of the property?	-----	-----
3. Is there evidence of trespassing?	-----	X
Is there evidence of illegal dumping?	-----	X

COVER & VEGETATION

4. Final cover in acceptable condition?	X	-----
Is there evidence of sloughing, erosion, ponding or settlement?	-----	X
Is there evidence of unintended traffic; rutting?	-----	X
Is there evidence of distressed vegetation/turf?	-----	X

	Yes	No
5. Final cover sufficiently covers soil/fill material?	X	
Are there cracks visible in the soil or pavement?		X
Is there evidence of erosion in the stormwater channels or swales?		X
Is there damage to the synthetic erosion control fabric in the channels or swales?		X

ACTIVITY ON SITE

6. Any activity on site that mechanically disturbed soil cover?		X

ADDITIONAL FACILITY INFORMATION

Development on or near the site? (Specify size and type: e.g., residential, 40 acres, well and septic)

COMMENTS

Item #

ATTACHMENTS

1. Site Sketch
2. Photographs
3. Laboratory Report (s)

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APPENDIX 3

Photographs



View of the eastern portion of the Site, east of Millennium Parkway, facing east.



View of the eastern portion of the Site, east of Millennium Parkway, facing east.



View of the Millennium Parkway eastern ditch, facing south.



View of the eastern portion of the Site, west of Millennium Parkway, facing west.



View of the central portion of the Site, facing west.



View of the stockpile located on the western portion of the Site, facing west.



View of the stockpile located on the western portion of the Site, facing west.



View from the top of the stockpile located on the western portion of the Site, facing southwest.



View from the top of the stockpile located on the western portion of the Site, facing west.



View of the stockpile located on the western portion of the Site, facing north.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 4

Site Management Periodic Review Report Notice-Institutional and Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **B00173**

Site Name Former Roblin Steel Site (Dunkirk)

Site Address: 320 South Roberts Road Zip Code: 14048
City/Town: Dunkirk
County: Chautauqua
Site Acreage: 11.8

Reporting Period: August 22, 2014 to December 31, 2015

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	X	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

} see attachment # 1

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative / Date

SITE NO. B00173 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
79.12-4-29	Chautauqua Co.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

79.12-4-30	Chautauqua County	Ground Water Use Restriction Soil Management Plan Monitoring Plan Site Management Plan IC/EC Plan Landuse Restriction

The Site Management Plan includes:
- An Engineering and Institutional Controls Plan. Engineering controls include a one-foot thick soil cover system and provisions for evaluating the potential for soil vapor intrusion to any new buildings constructed and the installation of soil vapor mitigation systems if warranted. Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. commercial/industrial purposes).
- An Excavation Work Plan to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- A Site Monitoring Plan that includes: provisions for groundwater monitoring; and,
- A Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
79.12-4-29	Cover System Vapor Mitigation
79.12-4-30	Vapor Mitigation Cover System

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☒

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

* **A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

George Spanos — Signature of Owner, Remedial Party or Designated Representative

1/12/16 — Date

*Already in place as of 4/3/2015. Included as Appendix S of the 2015 Periodic Review Report.

Attachment #1

In reference to the “yes” response from Page 1, Box 1, Question 3, the new transportation facility at the Site (Millennium Parkway), went into operation during this reporting period and is currently in use. The construction details associated with this transportation project were provided in the 2014 Periodic Review Report submitted to the NYSDEC on August 22, 2014.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 5

Corrective Action Work Plan

KHEOPS
Architecture, Engineering & Survey, DPC

Tel (716) 849-8739
Fax (716) 856-0981
www.kheopsdpc.com

300 Pearl Street
Suite 100
Buffalo, NY 14202

2013.0201.00
April 3, 2015

New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

Attn: David Syzmanski, Project Manager

Re: Revised Corrective Action Work Plan
Former Roblin Steel Site, 320 South Roberts Road, Dunkirk NY
NYSDEC Site No. B00173-9

Dear Mr. Syzmanski:

On behalf of the Chautauqua County Department of Public Facilities, KHEOPS Architecture, Engineering & Survey, DPC (KHEOPS) has revised the proposed Corrective Action Work Plan (CAWP) for the Former Roblin Steel Site according to your letter dated March 16, 2015. The intent of this document is to obtain approval from the NYSDEC for the proposed CAWP for the Former Roblin Steel Site in order to bring the site into compliance with the Site Management Plan (SMP). The site is not in compliance with the SMP due to a large stockpile of off-site materials that was created during the construction for the Millennium Parkway project.

The proposed corrective action includes the following:

- Removal of all materials stockpiled on the Edgewood property;
- Removal of all materials that could be classified as solid waste; and
- Removal of all materials that exceed Commercial Use Soil Cleanup Objectives (SCOs).
- End-point sampling of soil beneath the stockpiled soils once they are removed;
- Completion of a verification survey to confirm that 12-inches of soil cover are still in place after soil removal is complete;
- Site restoration;
- Preparation of a summary report verifying that the corrective measures were completed.

Soil Removal

During construction activities, offsite materials were stockpiled on the Edgewood property. These materials must be removed from the site. All solid waste materials and any other miscellaneous debris that is not an acceptable fill material must be removed and disposed of off-site in a permitted treatment, storage or disposal (TSD) facility. Fill material that is in compliance with the NYSDEC DER-10

Technical Guidance for Site Investigation and Remediation imported fill criteria may be imported to the Former Roblin Steel Site.

During a site visit on September 19, 2014, large pieces of concrete, polyethylene pipe, geotextile fabrics and other items which may be classified as solid waste materials were observed within the stockpile. Subsequent to the visit, it was determined that while the Contractor was building the pile, all of the solid waste material was pushed to the north end of the pile to separate it from the acceptable fill. All solid waste materials and any other miscellaneous debris that is not an acceptable fill material will be removed and disposed of off-site in a permitted TSD facility. It is intended that the stockpile will be screened to separate the material.

This option would require analytical testing of the stockpiled materials in accordance with the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation. The estimated volume of soil stockpiled is 9,000 cy; therefore, according to Table 5.4(e)10 of DER-10, the collection and analysis of a minimum of 23 discreet VOC samples and 10 composite samples would be needed. It is assumed that additional testing will be required for endpoint sampling when contaminated materials are detected. It is assumed that some contaminated materials will be identified based on the sampling that has already been completed at the site. These contaminated materials will need to be excavated and disposed of off-site at a permitted TSD facility.

The selective removal and disposal of solid waste and contaminated materials will require photoionization detector (PID) screening of materials as excavation progresses. Suspected contaminated materials will be identified by elevated PID readings, visual indicators or olfactory indicators. Suspect materials will be placed on a minimum 10 mil waterproof tarp and covered with a minimum 10 mil waterproof tarp at the end of each day while awaiting laboratory results to determine if they must be taken off-site. An alternative will be the use of roll off containers.

The following table summarizes the confirmation sampling frequencies that will be used:

Soil excavation of less than 20 feet in perimeter	One bottom sample and one sidewall sample biased in the direction of surface runoff.
Soil excavation of 20 to 300 feet in perimeter	One sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.
Soil excavation of greater than 300 feet in perimeter	One sample from the top of each sidewall for every 30 linear feet of sidewall and one sample from the excavation bottom for every 900 square feet of bottom area.

<u>Example of How to Use Table:</u> The Contractor will identify an area on the stockpile that requires excavation. The area will be identified by visual indicators of solid waste or elevated PID readings. Once excavation begins, each bucketful will be monitored with the PID device. If an elevated reading is detected, the material will be segregated onto a separate tarp (pile #1) until testing in accordance with Table 5.4(e)10 of DER-10 confirms its use as acceptable fill material. Bucket-fulls taken from the same excavation that show no elevated PID readings must be placed on a separate tarp (pile #2) for testing. The excavation will be progressed until the sidewalls and bottom of the excavation return no readings on the PID. Once no PID readings are noted, the Table above will be used to determine how many end point samples are required in addition to the sampling of the segregated materials. Any materials not meeting the criteria for acceptable fill material must be removed from the site.

Water Collection and Treatment

A system to collect stormwater runoff from the stockpile will be implemented at the site in order to collect and treat any potentially contaminated runoff prior to discharge into any stormwater or sanitary sewer system. Collected stormwater will require analytical testing prior to discharge in order to verify that no contaminants are present.

The anticipated collection system will include methods to divert runoff to a sump. The sump must not allow collected water to infiltrate into the ground. The water collected in the sump will then be pumped to a holding tank where it will be analytically tested prior to discharge to an approved discharge point.

If determined that the collected stormwater is contaminated and it cannot be treated on-site, the contaminated water will be collected in new or reconditioned 55-gallon drums or roll-off containers labeled in accordance with federal and State Regulations. The drums or containers will be sealed water-tight to prevent infiltration and leaking of water and will be stored on-site in such a manner that the contents will not spill or leak. All water will be transported and disposed of in accordance with applicable laws.

Endpoint Sampling

Once the existing stockpile has been moved/screened, the soil beneath the stockpiled soils will be subjected to endpoint sampling in order to verify that the surface soil meets site remedial objectives and DER-10 imported fill criteria. Samples will be collected from a depth of 0 to 6 inches below vegetative cover, if any.

Verification Survey

Once the existing stockpile has been moved/screened, the site will be surveyed to confirm that the minimum 12-inches of soil cover are still in place. The survey work will include re-establishment or recovery of survey control points, collection of ground shots at a 50-foot grid spacing and preparation of surface mapping in order to compare the existing surface with the original surface.

In addition, ten randomly located hand borings will be completed at the site to verify the depth of cover. For this site, it is assumed that no more than 10 hand borings will be required and that these hand borings could be completed within one 8-hour work day.

Site Restoration

If after the completion of the verification survey, it is determined that additional cover material is required, clean fill material that is in compliance with the NYSDEC DER-10 imported fill criteria will be placed to reestablish the 12-inch cover material. A cover inspection will then be performed in accordance with SMP to verify the integrity of the cover system. In areas where no vegetation is present, grass seed and fertilizer will be placed.

CAWP Summary Report/PRR

A summary report documenting and verifying that the corrective measures were completed in accordance with the DEC-approved CAWP will be submitted as part of a revised Periodic Review Report (PRR) for the site. Figures detailing the site plan, contours, and profile of existing soil will be included.

The County will direct the Contractor to begin removing and disposing of the stockpiled materials as soon as this CAWP is approved by the NYSDEC. Weather permitting; the County anticipates that the work can be completed within 60 business days.

Should you have any questions or concerns regarding this submittal, please feel free to contact me at 716-849-8739 or eschiller@kheopsdpc.com at your earliest convenience.

Sincerely,
KHEOPS Architecture, Engineering & Survey, DPC

Edward M. Schiller, PE
Regional Manager
ES/mlb/jld

Table 5.4(e)10 from DER 10 Technical Guidance for Site Investigation and Remediation

Table 5.4(e)10 Recommended Number of Soil Samples for Soil Imported To or Exported From a Site			
Contaminant	**VOCs**	**SVOCs, Inorganics & PCBs/Pesticides**	
Soil Quantity (cubic yards)	**Discrete Samples**	**Composite**	**Discrete Samples/Composite**
0-50	**1**	**1**	**3-5 discrete samples from different locations in the fill being provided will comprose a composite sample for analysis**
50-100	**2**	**1**	
100-200	**3**	**1**	
200-300	**4**	**1**	
300-400	**4**	**2**	
400-500	**5**	**2**	
500-800	**6**	**2**	
800-1000	**7**	**2**	
> 1000	**Add an additional 2 VOC and 1 composite for each additional 1000 cubic yards or consult with DER**		

Note: Table 5.4(e)10 from the May 2010 Final DER-10 Technical Guidance for Site Investigation and Remediation

New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave, Buffalo, New York 14203-2915
Phone: (716) 851-7220; **Fax:** (716) 851-7226
Website: www.dec.ny.gov

Joe Martens
Commissioner

March 16, 2015

Ms. Michelle Bodewes
Project Manager
KHEOPS
300 Pearl Street - Suite 100
Buffalo, New York 14202

Dear Ms. Bodewes:

Corrective Action Work Plan
Former Roblin Steel Site (Dunkirk), Dunkirk (C)
Chautauqua County, Site No.: B00173

The Department has reviewed your Corrective Action Work Plan (CAWP) (Dated: March 9, 2015) and has the following comments:

- End-point sampling of soil beneath the stockpiled soils is required to verify that the surface soil meets Site remedial objectives and DER-10 imported fill criteria.

- Section 2.4.2 of the Site Management Plan (*TVGA Consultants: November, 2010*) cites a demarcation layer and a before and after survey to verify that the required 12-inches of soil cover were emplaced. Reference to this survey should be made to compare if the CAWP reaches previous soil grade and to verify if remaining imported fill has been adequately assessed. Close scrutiny and analytical evaluation to compare original elevations and soil composition. Please provide more detail as to how this will be performed.

- It is required that a restoration plan be provided to ensure that surface cover meets Site remedial design specifications. Soil and vegetative cover specifications must be considered unless there is a proposed development which would require an additional Work Plan proposal.

- Tarps used to line and cover assumed contaminated material must be waterproof (I.E.: polyethylene sheeting) to preclude erosion and runoff.

- Contingencies for water collection and treatment must be considered if any contaminated materials are exposed to the elements. Appropriate water storage, analytical, and permitted treatment/disposal must be discussed.

- A summary report verifying that Corrective measures were completed must be submitted as part of a revised Periodic Review Report (PRR) for the Site. Figures detailing the Site plan, contours, and a profile of existing soil should be included as documentation of work performed.

Please provide revision to the CAWP by March 27, 2015 so that we may proceed with this work in a timely manner.

If you have any questions or comments, please contact me at (716) 851-7220 or e-mail: david.szymanski@dec.ny.gov.

Sincerely,

David Szymanski
Environmental Program Specialist 1

DS:sz

ec: Mr. Martin Doster - NYSDEC
Mr. George Spanos - Chautauqua County Dept. of Public Facilities
Ms. Jessica Gostomski - KHEOPS

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 6

Groundwater Sampling Logs

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-12
Job No. **2160148**

Site Location: Roblin Steel Site, Dunkirk, NY
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	8:00	8:35	847	8:55	9:10		
Depth of well	23.94						
Depth to water	9.8						
Well diameter	2"						
Well volume (gallons)	2.3						
Purging device	f.f.						
Containment device							
Purge time							
Gallons purged	2.2	2.2	2.2	2.2			
Sample device							
Field Parameters							
Temperature	11	11.9	11.8	11.9	11.9		
pH measurement	6.8	6.83	6.82	6.86	6.83		
Conductivity (mS/cm)	1.32	1.394	1.369	1.385	1.395		
ORP/Eh (mV)	101.6	34	11.9	-12.5	-22.6		
Turbidity (NTUs)	94	45	26.6	56	26		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-9R

Site Location: Roblin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	9:18	925	9:30	935	945		
Depth of well	16.7						
Depth to water	5.4						
Well diameter	2"						
Well volume (gallons)	1.8	1.8	1.8	1.8			
Purging device	P.D.						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	9.4	9.3	10.7	11.4	11		
pH measurement	7.51	7.48	7.22	7.2	7.21		
Conductivity (mS/cm)	0.841	0.83	0.796	0811	0812		
ORP/Eh (mV)	-53.2	-53.6	-18.8	-38.2	-52.4		
Turbidity (NTUs)	20.1	28.2	1.7	19.4	47		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-7R

Site Location: Roblin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	10:00	10:04	10:10	10:15	10:20		
Depth of well	17.57						
Depth to water	3.6						
Well diameter	2"						
Well volume (gallons)	2.2	2.2	2.2	2.2			
Purging device	PP.						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	10.5	11.3	11.4	11.5	11.7		
pH measurement	7.66	7.68	7.69	7.69	7.68		
Conductivity (mS/cm)	1.291	1.392	1.378	1.4	1.401		
ORP/Eh (mV)	-84.2	-119.3	-131.5	-137.8	-142.7		
Turbidity (NTUs)	5.1	12.3	22.2	44.8	13.9		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-4

Site Location: Roblin Steel Site, Dunkirk, NY — Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1030	1037	1045	10:50	11:00		
Depth of well	16.04						
Depth to water	5.1						
Well diameter	2"						
Well volume (gallons)	1.9	1.9	1.9	1.9			
Purging device	P.P.						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	10.4	11.7	11.9	12.1	12.1		
pH measurement	7.46	7.06	7.06	7.05	7.06		
Conductivity (mS/cm)	0.925	0.879	0.883	0.892	0.893		
ORP/Eh (mV)	-78	-68.8	-66.4	-72	-78.4		
Turbidity (NTUs)	320	194	136	96	77		

WEATHER:

NOTES/FIELD OBSERVATIONS:

- turbidity above 50 NTU's

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-1

Site Location: Roblin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	11:10	11:15	11:20	11:25	11:30		
Depth of well	18.15						
Depth to water	3.2						
Well diameter	2"						
Well volume (gallons)	2.4	2.4	2.4	2.4			
Purging device	PP.						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	11.3	12	12.5	12.4	12.5		
pH measurement	7.74	7.65	7.66	7.64	7.64		
Conductivity (mS/cm)	0.537	0.507	0.508	0.504	0.498		
ORP/Eh (mV)	-215.7	-263	-294.1	-309.8	-314.8		
Turbidity (NTUs)	4.1	4.7	11.8	15	23.7		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. EX MW12

Site Location: Roblin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	11:45	11:50	11:55	12:00	12:10		
Depth of well	23.1						
Depth to water	7.00						
Well diameter	2"						
Well volume (gallons)	2.6	2.6	2.6	2.6			
Purging device	P.P.						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	12.7	12.7	12.8	12.7	12		
pH measurement	7.29	7.21	7.19	7.16	7.16		
Conductivity (mS/cm)	0.858	0.881	0.886	0.896	0.892		
ORP/Eh (mV)	-212	-224	-226	-223	-217		
Turbidity (NTUs)	4.9	5.5	5.6	2.2	2.2		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. MW-2R

Site Location: Roblin Steel Site, Dunkirk, NY — Job No. **2160148**

Sample Date: Dec. 15 2015

LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1215	1220	1225	1230	1235		
Depth of well	23.25						
Depth to water	~~19.5~~ 21						
Well diameter	2						
Well volume (gallons)	~~2.5~~ 2.9	2.9	2.9	2.9			
Purging device	PP						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	11.3	12.6	12.5	12.6	12.5		
pH measurement	7.46	7.29	7.22	7.16	7.08		
Conductivity (mS/cm)	0.75	0.77	0.77	0.786	0.772		
ORP/Eh (mV)	-175.2	-197	-203	-207	-213		
Turbidity (NTUs)	17.3	20.5	15	8.4	9.1		

WEATHER:

NOTES/FIELD OBSERVATIONS:

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA ASSOCIATES, D.P.C.
Environmental Engineering Consultants

Well I.D. EXMW-11R

Site Location: Roblin Steel Site, Dunkirk, NY
Job No. **2160148**
Sample Date: Dec. 15 2015
LaBella Representative: CMK

Well I.D.	Initial Readings	1 Well Volume	2 Well Volumes	3 Well Volume	Sample	Post Sample	Details
Time	1250	1255	1300	1305	1310		
Depth of well	18.65						
Depth to water	5.9						
Well diameter	2"						
Well volume (gallons)	2.0	2.0	2.0	2.0			
Purging device	P						
Containment device							
Purge time							
Gallons purged							
Sample device							
Field Parameters							
Temperature	10.1	10.2	11.1	11.3	11.3		
pH measurement	7.25	7.21	7.58	7.58	7.58		
Conductivity (mS/cm)	0.602	0.603	0.607	0.583	0.582		
ORP/Eh (mV)	-150	-152	-165	-186	-187		
Turbidity (NTUs)	19.6	18	16	11.5	10.4		

WEATHER:

NOTES/FIELD OBSERVATIONS:

F.D @ 1310 (EXMW-11R)

Well Volume Purge: 1 Well Volume = (Total Well Depth – Static Depth To Water) X Well Capacity
(only if applicable) = (ft. –ft.) X . gal/ft = 0.3056 gallons

Well Capacity (Gallons per Foot): **0.75"**=0.02 **1"**=0.04 **1.5"**=0.092 **2"**=0.16 **3"**=0.37
4"=0.65 **5"**=1.02 **6"**=1.47 **12"**=5.88

1. **Stabilization Criteria for range of variation of last three consecutive Readings**

pH: ± 0.2 units; **Temperature:** ± 0.5°C; **Specific Conductance:** ± 10%; **Turbidity:** ≤ 50 NTU

A minimum of three well volumes and a maximum of five well volumes are to be removed from each well prior to sampling. In the event that groundwater recharge is slow, the purging process will continue until the well is purged "dry". After the water level has returned to its pre-purge level (or within a maximum of two hours), samples will be collected. If the water level is slow to recharge and does not reach its pre-purge level within two hours, then samples can be collected after sufficient water has recharged, and the degree of recharge indicated in field notes with time and depth to water noted.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 7

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 07, 2016

Analytical Report for Service Request No: R1510962

Mr. Rob Napieralski
Labella Associates, PC
300 Pearl Street
Suite 130
Buffalo, NY 14202

Laboratory Results for: Roblin/Alumax Wells/2160148

Dear Mr. Napieralski:

Enclosed are the results of the sample(s) submitted to our laboratory on December 16, 2015. For your reference, these analyses have been assigned our service request number **R1510962**.

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

CC: Chris Kibler

ALS Environmental

Client:	Labella Associates
Service Request No.:	R1510962
Project:	Roblin/Alumax Wells
Date Received:	12/16/15
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).

Sample Receipt

Samples were received for analysis at ALS Environmental on 12/16/15 in good condition. 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.

Volatile Organics

Samples were analyzed for a site list of Volatile Organics by Methods 5030C/8260C from SW-846.

All Tuning criteria for BFB 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 1,4-Dioxane, 2-Hexanone, 4-Methyl-2-pentanone and Bromomethane on the 12/21/15 CCV and 1,4-Dioxane on the 12/23/15 CCV. All positive detections for this compound for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas (IS) were within QC limits.

All surrogate standard recoveries were acceptable.

All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits.

Site specific QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination except for low level detections for 1,2,4-Trichlorobenzene, Bromomethane, Hexachlorobutadiene and Naphthalene on the 12/17/15 blank and 1,2,4-Trichlorobenzene, Hexachlorobutadiene and Naphthalene on the 12/18/15 blank. All affected data has been flagged with a "B".

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #:	2160148	Batch Complete:	Yes	Date Revised:	
Submission:	R1510962	Diskette Requested:	No	Date Due:	1/5/16
Client:	Labella Associates, PC	Date:	1/7/16	Protocol:	SW846
Client Rep:	JJAEGER	Custody Seal: Present/Absent:		Shipping No.:	
Project:	Roblin/Alumax Wells	Chain of Custody: Present/Absent:		SDG #:	MW-12

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1510962-001	MW-12	Water	8260C	12/15/15	12/16/15			
R1510962-002	MW-9R	Water	8260C	12/15/15	12/16/15			
R1510962-002.R01	MW-9R	Water	8260C	12/15/15	12/16/15			
R1510962-003	MW-7R	Water	8260C	12/15/15	12/16/15			
R1510962-004	MW-4	Water	8260C	12/15/15	12/16/15			
R1510962-005	MW-1	Water	8260C	12/15/15	12/16/15			
R1510962-006	EX-MW-12	Water	8260C	12/15/15	12/16/15			
R1510962-007	MW-2R	Water	8260C	12/15/15	12/16/15			
R1510962-008	EX-MW-11R	Water	8260C	12/15/15	12/16/15			
R1510962-008.R01	EX-MW-11R	Water	8260C	12/15/15	12/16/15			
R1510962-009	AL-2	Water	8260C	12/15/15	12/16/15			
R1510962-010	AL-1	Water	8260C	12/15/15	12/16/15			
R1510962-010.R01	AL-1	Water	8260C	12/15/15	12/16/15			
R1510962-011	AL-7	Water	8260C	12/15/15	12/16/15			
R1510962-012	Field Duplicate	Water	8260C	12/15/15	12/16/15			
R1510962-012.R01	Field Duplicate	Water	8260C	12/15/15	12/16/15			
R1510962-013	Trip Blank	Water	8260C	12/15/15	12/16/15			

Folder Comments: MRL U

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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

32914

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

Project Name: Robin/Alumax Wells	Project Number: 2160148
Project Manager: Rob Napieralski	Report CC:
Company/Address: 300 Pearl Street, Suite 130, Buffalo NY 14202, LaBella Associates, DPC.	
Phone: 716-551-6301	Email: rnapieralski@labellapc.com
Sampler's Signature:	Sampler's Printed Name: Chris Kibler

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
MW-12		12-15-15	9:10	GW	3	X							
MW-9R		12-15-15	9:45	GW	3	X							
MW-7R		12-15-15	10:20	GW	3	X							
MW-4		12-15-15	11:00	GW	3	X							
MW-1		12-15-15	11:30	GW	3	X							
EX-MW-12		12-15-15	12:10	GW	3	X							
MW-2R		12-15-15	12:35	GW	3	X							
EX-MW-11R		12-15-15	13:10	GW	3	X							
AL-2		12-15-15	15:50	GW	3	X							
AL-1		12-15-15	14:25	GW	3	X							
AL-3		12-15-15	15:00	GW	3	X							

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Trip Blank - TCL VOC's analysis (8260)
Field Duplicate - TCL VOC's analysis (8260)
12-15-15, 13:10

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED: 320 S. Roberts Rd. Dunkirk NY.

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day
Standard Turn
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
NYASP Category B
Edata _____ Yes X No

INVOICE INFORMATION
PO # 2160148
BILL TO: LaBella
300 Pearl St
Buffalo NY. 14202
Suite 130

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Chris Kibler	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: LaBella	Firm: ALS	Firm: ALS	Firm: 12/16/15 / 1820	Firm:	Firm:
Date/Time: 12-16-15 / 3pm	Date/Time: 12-16-15 1520	Date/Time: 12-16-15 1820	Date/Time:	Date/Time:	Date/Time:

R1510962 5
Labella Associates, PC
Robiln/Alumax Wells

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

© 2012 by ALS Group

Cooler Receipt and Preservati

R1510962 5
Labella Associates, PC
Roblin/Alumax Wells

Project/Client Kheops Folder Number

Cooler received on 12/16/15 by: DM

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 DM 12/16/15
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: 12/16/15 Time: 1835 ID: IR#3 (IR#5) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	5.5°	7.3C					
Correction Factor (°C)	+0.0°	-1.8°					
Corrected Temp (°C)	5.5°	5.5°					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: R-002 by DM on 12/16/15 at 1835
5035 samples placed in storage location: R-F09 by ↓ on ↓ at ↓

PC Secondary Review: DM 12/21/15

Cooler Breakdown: Date: 12/18/15 Time: 0903 by: MDS

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	**	**	411070	11/16				

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

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-211-002

Other Comments:

PC Secondary Review: DM 12/21/15

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 0910
Date Received: 12/16/15

Sample Name: MW-12
Lab Code: R1510962-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:07		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:07		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:07		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 18:07		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:07		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:07		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:07		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:07		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:07		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:07		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:07		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:07		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:07		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:07		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:07		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:07		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:07		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:07		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:07		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:07		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:07		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 0910
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-12	**Units:**	µg/L
Lab Code:	R1510962-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:07		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 18:07		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:07		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 18:07		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
cis-1,2-Dichloroethene	**0.53**	J	1.0	0.30	1	NA	12/21/15 18:07		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:07		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 18:07		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	12/21/15 18:07	
Dibromofluoromethane	99	89-119	12/21/15 18:07	
Toluene-d8	102	87-121	12/21/15 18:07	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 0945
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-9R	**Units:**	µg/L
Lab Code:	R1510962-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:31		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:31		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:31		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:31		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,1-Dichloroethene (1,1-DCE)	**2.3**		1.0	0.57	1	NA	12/21/15 18:31		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:31		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:31		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:31		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:31		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:31		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:31		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:31		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:31		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:31		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:31		477252	
Benzene	**0.97**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:31		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:31		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:31		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:31		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:31		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:31		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:31		477252	
Cyclohexane	**15**		1.0	0.25	1	NA	12/21/15 18:31		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:31		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:31		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:31		477252	
Ethylbenzene	**0.23**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 0945
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-9R	**Units:**	µg/L
Lab Code:	R1510962-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.28**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:31		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Methylcyclohexane	**13**		1.0	0.27	1	NA	12/21/15 18:31		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:31		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Trichloroethene (TCE)	**4.5**		1.0	0.22	1	NA	12/21/15 18:31		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Vinyl Chloride	**310**	D	10	3.2	10	NA	12/22/15 19:24		477582	
cis-1,2-Dichloroethene	**1200**	D	10	3.0	10	NA	12/22/15 19:24		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:31		477252	
o-Xylene	**0.23**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
trans-1,2-Dichloroethene	**2.9**		1.0	0.33	1	NA	12/21/15 18:31		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	12/21/15 18:31	
Dibromofluoromethane	97	89-119	12/21/15 18:31	
Toluene-d8	99	87-121	12/21/15 18:31	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1020
Date Received: 12/16/15

Sample Name: MW-7R
Lab Code: R1510962-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:55		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:55		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:55		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:55		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 18:55		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:55		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:55		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:55		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:55		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:55		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:55		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:55		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:55		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:55		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:55		477252	
Benzene	**0.34**	J	1.0	0.20	1	NA	12/21/15 18:55		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:55		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:55		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:55		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:55		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:55		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:55		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:55		477252	
Cyclohexane	**0.72**	J	1.0	0.25	1	NA	12/21/15 18:55		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:55		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:55		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:55		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1020
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-7R	**Units:**	µg/L
Lab Code:	R1510962-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:55		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Methylcyclohexane	**0.76**	J	1.0	0.27	1	NA	12/21/15 18:55		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:55		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Trichloroethene (TCE)	**0.25**	J	1.0	0.22	1	NA	12/21/15 18:55		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Vinyl Chloride	**6.2**		1.0	0.32	1	NA	12/21/15 18:55		477252	
cis-1,2-Dichloroethene	**17**		1.0	0.30	1	NA	12/21/15 18:55		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:55		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 18:55		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	12/21/15 18:55	
Dibromofluoromethane	100	89-119	12/21/15 18:55	
Toluene-d8	103	87-121	12/21/15 18:55	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1100
Date Received: 12/16/15

Sample Name: MW-4
Lab Code: R1510962-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 19:19		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 19:19		477252	
1,1,2-Trichloro-1.2.2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 19:19		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 19:19		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 19:19		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 19:19		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 19:19		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 19:19		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 19:19		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 19:19		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 19:19		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 19:19		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 19:19		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 19:19		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 19:19		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 19:19		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 19:19		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 19:19		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 19:19		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 19:19		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 19:19		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 19:19		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 19:19		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1100
Date Received: 12/16/15

Sample Name: MW-4
Lab Code: R1510962-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 19:19		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 19:19		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 19:19		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 19:19		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Vinyl Chloride	**0.49**	J	1.0	0.32	1	NA	12/21/15 19:19		477252	
cis-1,2-Dichloroethene	**2.6**		1.0	0.30	1	NA	12/21/15 19:19		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 19:19		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 19:19		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	12/21/15 19:19	
Dibromofluoromethane	100	89-119	12/21/15 19:19	
Toluene-d8	102	87-121	12/21/15 19:19	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1130
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-1	**Units:**	µg/L
Lab Code:	R1510962-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 18:11		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 18:11		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:11		477582	
1,1-Dichloroethane (1,1-DCA)	**0.26**	J	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 18:11		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 18:11		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 18:11		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 18:11		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 18:11		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 18:11		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 18:11		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 18:11		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 18:11		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 18:11		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 18:11		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 18:11		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Carbon Disulfide	**5.6**		1.0	0.22	1	NA	12/22/15 18:11		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 18:11		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 18:11		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:11		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 18:11		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 18:11		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1130
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-1	**Units:**	µg/L
Lab Code:	R1510962-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 18:11		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Methylcyclohexane	**0.52**	J	1.0	0.27	1	NA	12/22/15 18:11		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 18:11		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 18:11		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
cis-1,2-Dichloroethene	**0.46**	J	1.0	0.30	1	NA	12/22/15 18:11		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 18:11		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 18:11		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/22/15 18:11	
Dibromofluoromethane	101	89-119	12/22/15 18:11	
Toluene-d8	102	87-121	12/22/15 18:11	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1210
Date Received: 12/16/15

Sample Name: EX-MW-12
Lab Code: R1510962-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:08		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:08		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:08		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 20:08		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:08		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:08		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:08		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:08		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:08		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:08		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:08		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:08		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:08		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:08		477252	
Benzene	**0.47**	J	1.0	0.20	1	NA	12/21/15 20:08		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:08		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:08		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:08		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:08		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:08		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:08		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:08		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1210
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-12	**Units:**	µg/L
Lab Code:	R1510962-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:08		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 20:08		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:08		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 20:08		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
cis-1,2-Dichloroethene	**0.73**	J	1.0	0.30	1	NA	12/21/15 20:08		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 20:08		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 20:08		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	12/21/15 20:08	
Dibromofluoromethane	99	89-119	12/21/15 20:08	
Toluene-d8	101	87-121	12/21/15 20:08	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1235
Date Received: 12/16/15

Sample Name: MW-2R
Lab Code: R1510962-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:32		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:32		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:32		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:32		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 20:32		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:32		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:32		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:32		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:32		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:32		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:32		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:32		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:32		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:32		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:32		477252	
Benzene	**3.5**		1.0	0.20	1	NA	12/21/15 20:32		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:32		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:32		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:32		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:32		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:32		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:32		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:32		477252	
Cyclohexane	**6.3**		1.0	0.25	1	NA	12/21/15 20:32		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:32		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:32		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:32		477252	
Ethylbenzene	**1.9**		1.0	0.20	1	NA	12/21/15 20:32		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1235
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-2R	**Units:**	µg/L
Lab Code:	R1510962-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.61**	J	1.0	0.20	1	NA	12/21/15 20:32		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:32		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Methylcyclohexane	**2.3**		1.0	0.27	1	NA	12/21/15 20:32		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:32		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Trichloroethene (TCE)	**0.25**	J	1.0	0.22	1	NA	12/21/15 20:32		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Vinyl Chloride	**26**		1.0	0.32	1	NA	12/21/15 20:32		477252	
cis-1,2-Dichloroethene	**18**		1.0	0.30	1	NA	12/21/15 20:32		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 20:32		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 20:32		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 20:32	
Dibromofluoromethane	101	89-119	12/21/15 20:32	
Toluene-d8	102	87-121	12/21/15 20:32	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-11R	**Units:**	µg/L
Lab Code:	R1510962-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:57		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:57		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:57		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:57		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,1-Dichloroethene (1,1-DCE)	**4.6**		1.0	0.57	1	NA	12/21/15 20:57		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:57		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:57		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:57		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:57		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:57		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:57		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:57		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:57		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:57		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:57		477252	
Benzene	**2.5**		1.0	0.20	1	NA	12/21/15 20:57		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:57		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:57		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:57		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:57		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:57		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:57		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:57		477252	
Cyclohexane	**16**		1.0	0.25	1	NA	12/21/15 20:57		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:57		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:57		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:57		477252	
Ethylbenzene	**2.4**		1.0	0.20	1	NA	12/21/15 20:57		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-11R	**Units:**	µg/L
Lab Code:	R1510962-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.68**	J	1.0	0.20	1	NA	12/21/15 20:57		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:57		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Methylcyclohexane	**15**		1.0	0.27	1	NA	12/21/15 20:57		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:57		477252	
Toluene	**1.7**		1.0	0.20	1	NA	12/21/15 20:57		477252	
Trichloroethene (TCE)	**36**		1.0	0.22	1	NA	12/21/15 20:57		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
Vinyl Chloride	**520**	D	10	3.2	10	NA	12/22/15 19:49		477582	
cis-1,2-Dichloroethene	**990**	D	10	3.0	10	NA	12/22/15 19:49		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
m,p-Xylenes	**0.73**	J	2.0	0.33	1	NA	12/21/15 20:57		477252	
o-Xylene	**4.9**		1.0	0.20	1	NA	12/21/15 20:57		477252	
trans-1,2-Dichloroethene	**3.3**		1.0	0.33	1	NA	12/21/15 20:57		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 20:57	
Dibromofluoromethane	100	89-119	12/21/15 20:57	
Toluene-d8	102	87-121	12/21/15 20:57	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1350
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	AL-2	**Units:**	µg/L
Lab Code:	R1510962-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 21:21		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 21:21		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 21:21		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 21:21		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 21:21		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 21:21		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 21:21		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 21:21		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 21:21		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 21:21		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 21:21		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 21:21		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 21:21		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 21:21		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 21:21		477252	
Benzene	**5.5**		1.0	0.20	1	NA	12/21/15 21:21		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 21:21		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 21:21		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 21:21		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 21:21		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 21:21		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 21:21		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 21:21		477252	
Cyclohexane	**4.2**		1.0	0.25	1	NA	12/21/15 21:21		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 21:21		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 21:21		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 21:21		477252	
Ethylbenzene	**0.23**	J	1.0	0.20	1	NA	12/21/15 21:21		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1350
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	AL-2	**Units:**	µg/L
Lab Code:	R1510962-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 21:21		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Methylcyclohexane	**1.5**		1.0	0.27	1	NA	12/21/15 21:21		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 21:21		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Trichloroethene (TCE)	**1.5**		1.0	0.22	1	NA	12/21/15 21:21		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Vinyl Chloride	**2.7**		1.0	0.32	1	NA	12/21/15 21:21		477252	
cis-1,2-Dichloroethene	**8.7**		1.0	0.30	1	NA	12/21/15 21:21		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 21:21		477252	
o-Xylene	**0.22**	J	1.0	0.20	1	NA	12/21/15 21:21		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 21:21		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/21/15 21:21	
Dibromofluoromethane	101	89-119	12/21/15 21:21	
Toluene-d8	103	87-121	12/21/15 21:21	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1425
Date Received: 12/16/15

Sample Name: AL-1
Lab Code: R1510962-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	NA	12/22/15 19:00		477582	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	NA	12/22/15 19:00		477582	
1,1,2-Trichloroethane	10	U	10	3.5	10	NA	12/22/15 19:00		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	3.1	10	NA	12/22/15 19:00		477582	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,1-Dichloroethene (1,1-DCE)	**24**		10	5.7	10	NA	12/22/15 19:00		477582	
1,2,3-Trichlorobenzene	10	U	10	8.2	10	NA	12/22/15 19:00		477582	
1,2,4-Trichlorobenzene	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
1,2-Dibromo-3-chloropropane (DBCP)	20	U	20	7.4	10	NA	12/22/15 19:00		477582	
1,2-Dibromoethane	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
1,2-Dichlorobenzene	10	U	10	2.1	10	NA	12/22/15 19:00		477582	
1,2-Dichloroethane	10	U	10	3.6	10	NA	12/22/15 19:00		477582	
1,2-Dichloropropane	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,3-Dichlorobenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,4-Dichlorobenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,4-Dioxane	400	U	400	200	10	NA	12/22/15 19:00		477582	
2-Butanone (MEK)	50	U	50	8.2	10	NA	12/22/15 19:00		477582	
2-Hexanone	50	U	50	17	10	NA	12/22/15 19:00		477582	
4-Methyl-2-pentanone	50	U	50	6.7	10	NA	12/22/15 19:00		477582	
Acetone	50	U	50	13	10	NA	12/22/15 19:00		477582	
Benzene	**9.5**	J	10	2.0	10	NA	12/22/15 19:00		477582	
Bromochloromethane	10	U	10	3.2	10	NA	12/22/15 19:00		477582	
Bromodichloromethane	10	U	10	3.2	10	NA	12/22/15 19:00		477582	
Bromoform	10	U	10	4.2	10	NA	12/22/15 19:00		477582	
Bromomethane	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Carbon Disulfide	10	U	10	2.2	10	NA	12/22/15 19:00		477582	
Carbon Tetrachloride	10	U	10	4.5	10	NA	12/22/15 19:00		477582	
Chlorobenzene	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Chloroethane	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
Chloroform	10	U	10	2.5	10	NA	12/22/15 19:00		477582	
Chloromethane	10	U	10	2.1	10	NA	12/22/15 19:00		477582	
Cyclohexane	**5.2**	J	10	2.5	10	NA	12/22/15 19:00		477582	
Dibromochloromethane	10	U	10	3.1	10	NA	12/22/15 19:00		477582	
Dichlorodifluoromethane (CFC 12)	10	U	10	4.7	10	NA	12/22/15 19:00		477582	
Dichloromethane	10	U	10	6.0	10	NA	12/22/15 19:00		477582	
Ethylbenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1425
Date Received: 12/16/15

Sample Name: AL-1
Lab Code: R1510962-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Methyl Acetate	20	U	20	4.3	10	NA	12/22/15 19:00		477582	
Methyl tert-Butyl Ether	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Methylcyclohexane	10	U	10	2.7	10	NA	12/22/15 19:00		477582	
Styrene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Tetrachloroethene (PCE)	10	U	10	3.0	10	NA	12/22/15 19:00		477582	
Toluene	**3.1**	J	10	2.0	10	NA	12/22/15 19:00		477582	
Trichloroethene (TCE)	**88**		10	2.2	10	NA	12/22/15 19:00		477582	
Trichlorofluoromethane (CFC 11)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Vinyl Chloride	**850**	D	25	8.0	25	NA	12/23/15 12:18		477634	
cis-1,2-Dichloroethene	**3200**	D	25	7.5	25	NA	12/23/15 12:18		477634	
cis-1,3-Dichloropropene	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
m,p-Xylenes	20	U	20	3.4	10	NA	12/22/15 19:00		477582	
o-Xylene	**2.4**	J	10	2.0	10	NA	12/22/15 19:00		477582	
trans-1,2-Dichloroethene	**10**		10	3.4	10	NA	12/22/15 19:00		477582	
trans-1,3-Dichloropropene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	12/22/15 19:00	
Dibromofluoromethane	103	89-119	12/22/15 19:00	
Toluene-d8	103	87-121	12/22/15 19:00	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1500
Date Received: 12/16/15

Sample Name: AL-7
Lab Code: R1510962-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 18:36		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 18:36		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 18:36		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:36		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 18:36		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 18:36		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 18:36		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 18:36		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 18:36		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 18:36		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 18:36		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 18:36		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 18:36		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 18:36		477582	
Acetone	**1.3**	J	5.0	1.3	1	NA	12/22/15 18:36		477582	
Benzene	**0.23**	J	1.0	0.20	1	NA	12/22/15 18:36		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:36		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:36		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 18:36		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 18:36		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 18:36		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 18:36		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 18:36		477582	
Cyclohexane	**0.73**	J	1.0	0.25	1	NA	12/22/15 18:36		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:36		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 18:36		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 18:36		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1500
Date Received: 12/16/15

Sample Name: AL-7
Lab Code: R1510962-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 18:36		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Methylcyclohexane	**0.55**	J	1.0	0.27	1	NA	12/22/15 18:36		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 18:36		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Trichloroethene (TCE)	**6.7**		1.0	0.22	1	NA	12/22/15 18:36		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Vinyl Chloride	**4.8**		1.0	0.32	1	NA	12/22/15 18:36		477582	
cis-1,2-Dichloroethene	**42**		1.0	0.30	1	NA	12/22/15 18:36		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 18:36		477582	
o-Xylene	**0.31**	J	1.0	0.20	1	NA	12/22/15 18:36		477582	
trans-1,2-Dichloroethene	**0.40**	J	1.0	0.33	1	NA	12/22/15 18:36		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	12/22/15 18:36	
Dibromofluoromethane	102	89-119	12/22/15 18:36	
Toluene-d8	106	87-121	12/22/15 18:36	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	Field Duplicate	**Units:**	µg/L
Lab Code:	R1510962-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 17:18		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 17:18		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 17:18		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 17:18		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,1-Dichloroethene (1,1-DCE)	**4.5**		1.0	0.57	1	NA	12/21/15 17:18		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 17:18		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 17:18		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 17:18		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 17:18		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 17:18		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 17:18		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 17:18		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 17:18		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 17:18		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 17:18		477252	
Benzene	**2.7**		1.0	0.20	1	NA	12/21/15 17:18		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 17:18		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 17:18		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 17:18		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 17:18		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 17:18		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 17:18		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 17:18		477252	
Cyclohexane	**20**		1.0	0.25	1	NA	12/21/15 17:18		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 17:18		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 17:18		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 17:18		477252	
Ethylbenzene	**2.7**		1.0	0.20	1	NA	12/21/15 17:18		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	Field Duplicate	**Units:**	µg/L
Lab Code:	R1510962-012	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.74**	J	1.0	0.20	1	NA	12/21/15 17:18		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 17:18		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Methylcyclohexane	**21**		1.0	0.27	1	NA	12/21/15 17:18		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 17:18		477252	
Toluene	**2.0**		1.0	0.20	1	NA	12/21/15 17:18		477252	
Trichloroethene (TCE)	**32**		1.0	0.22	1	NA	12/21/15 17:18		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
Vinyl Chloride	**560**	D	10	3.2	10	NA	12/22/15 20:13		477582	
cis-1,2-Dichloroethene	**950**	D	10	3.0	10	NA	12/22/15 20:13		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
m,p-Xylenes	**0.81**	J	2.0	0.33	1	NA	12/21/15 17:18		477252	
o-Xylene	**5.1**		1.0	0.20	1	NA	12/21/15 17:18		477252	
trans-1,2-Dichloroethene	**2.9**		1.0	0.33	1	NA	12/21/15 17:18		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/21/15 17:18	
Dibromofluoromethane	104	89-119	12/21/15 17:18	
Toluene-d8	105	87-121	12/21/15 17:18	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15
Date Received: 12/16/15

Sample Name: Trip Blank
Lab Code: R1510962-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 17:47		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 17:47		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:47		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 17:47		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 17:47		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 17:47		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 17:47		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 17:47		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 17:47		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 17:47		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 17:47		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 17:47		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 17:47		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 17:47		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 17:47		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 17:47		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 17:47		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 17:47		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:47		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 17:47		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 17:47		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15
Date Received: 12/16/15

Sample Name: Trip Blank
Lab Code: R1510962-013

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 17:47		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/22/15 17:47		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 17:47		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 17:47		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/22/15 17:47		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 17:47		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 17:47		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	12/22/15 17:47	
Dibromofluoromethane	102	89-119	12/22/15 17:47	
Toluene-d8	105	87-121	12/22/15 17:47	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1515808-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 13:03		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 13:03		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 13:03		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 13:03		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 13:03		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 13:03		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 13:03		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 13:03		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 13:03		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 13:03		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 13:03		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 13:03		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 13:03		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 13:03		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 13:03		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 13:03		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 13:03		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 13:03		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 13:03		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 13:03		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 13:03		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1515808-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 13:03		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 13:03		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 13:03		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 13:03		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/21/15 13:03		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 13:03		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 13:03		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 13:03	
Dibromofluoromethane	99	89-119	12/21/15 13:03	
Toluene-d8	101	87-121	12/21/15 13:03	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1516065-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 17:23		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 17:23		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:23		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 17:23		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 17:23		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 17:23		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 17:23		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 17:23		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 17:23		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 17:23		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 17:23		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 17:23		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 17:23		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 17:23		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 17:23		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 17:23		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 17:23		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 17:23		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:23		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 17:23		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 17:23		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516065-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 17:23		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/22/15 17:23		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 17:23		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 17:23		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/22/15 17:23		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 17:23		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 17:23		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/22/15 17:23	
Dibromofluoromethane	101	89-119	12/22/15 17:23	
Toluene-d8	103	87-121	12/22/15 17:23	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516080-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/23/15 11:51		477634	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/23/15 11:51		477634	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/23/15 11:51		477634	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/23/15 11:51		477634	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/23/15 11:51		477634	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/23/15 11:51		477634	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/23/15 11:51		477634	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/23/15 11:51		477634	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/23/15 11:51		477634	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,4-Dioxane	40	U	40	20	1	NA	12/23/15 11:51		477634	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/23/15 11:51		477634	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/23/15 11:51		477634	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/23/15 11:51		477634	
Acetone	5.0	U	5.0	1.3	1	NA	12/23/15 11:51		477634	
Benzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
Bromoform	1.0	U	1.0	0.42	1	NA	12/23/15 11:51		477634	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/23/15 11:51		477634	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/23/15 11:51		477634	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
Chloroform	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/23/15 11:51		477634	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/23/15 11:51		477634	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/23/15 11:51		477634	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/23/15 11:51		477634	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1516080-01

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/23/15 11:51		477634	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/23/15 11:51		477634	
Styrene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/23/15 11:51		477634	
Toluene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/23/15 11:51		477634	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/23/15 11:51		477634	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/23/15 11:51		477634	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/23/15 11:51		477634	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/23/15 11:51	
Dibromofluoromethane	99	89-119	12/23/15 11:51	
Toluene-d8	103	87-121	12/23/15 11:51	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/21/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477252

Analyte Name	Lab Control Sample RQ1515808-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.5	20.0	103	74 - 120
1,1,2,2-Tetrachloroethane	20.3	20.0	102	78 - 122
1,1,2-Trichloroethane	19.8	20.0	99	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	19.2	20.0	96	75 - 124
1,1-Dichloroethane (1,1-DCA)	20.3	20.0	102	78 - 117
1,1-Dichloroethene (1,1-DCE)	22.4	20.0	112	74 - 135
1,2,3-Trichlorobenzene	19.5	20.0	97	56 - 164
1,2,4-Trichlorobenzene	20.6	20.0	103	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	22.2	20.0	111	55 - 149
1,2-Dibromoethane	24.0	20.0	120	81 - 125
1,2-Dichlorobenzene	21.9	20.0	109	80 - 119
1,2-Dichloroethane	17.7	20.0	89	71 - 127
1,2-Dichloropropane	20.1	20.0	100	80 - 119
1,3-Dichlorobenzene	22.2	20.0	111	79 - 121
1,4-Dichlorobenzene	21.8	20.0	109	79 - 119
1,4-Dioxane	315	400	79	69 - 151
2-Butanone (MEK)	16.3	20.0	82	61 - 137
2-Hexanone	16.7	20.0	83	63 - 124
4-Methyl-2-pentanone	16.0	20.0	80	66 - 124
Acetone	17.0	20.0	85	40 - 161
Benzene	19.4	20.0	97	76 - 118
Bromochloromethane	21.3	20.0	106	81 - 126
Bromodichloromethane	20.4	20.0	102	78 - 126
Bromoform	23.2	20.0	116	71 - 136
Bromomethane	24.2	20.0	121	42 - 166
Carbon Disulfide	20.5	20.0	103	65 - 127
Carbon Tetrachloride	20.2	20.0	101	68 - 125
Chlorobenzene	21.0	20.0	105	80 - 121
Chloroethane	20.6	20.0	103	70 - 127
Chloroform	19.8	20.0	99	76 - 120
Chloromethane	17.6	20.0	88	69 - 145
Cyclohexane	14.6	20.0	73	63 - 121
Dibromochloromethane	24.8	20.0	124	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/21/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477252

Analyte Name	Lab Control Sample RQ1515808-02 Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	19.6	20.0	98	65 - 152
Dichloromethane	19.4	20.0	97	73 - 122
Ethylbenzene	21.7	20.0	108	76 - 120
Isopropylbenzene (Cumene)	20.0	20.0	100	78 - 126
Methyl Acetate	15.0	20.0	75	62 - 131
Methyl tert-Butyl Ether	18.7	20.0	94	78 - 125
Methylcyclohexane	16.5	20.0	83	51 - 129
Styrene	20.8	20.0	104	80 - 124
Tetrachloroethene (PCE)	21.5	20.0	107	78 - 124
Toluene	19.8	20.0	99	77 - 120
Trichloroethene (TCE)	22.2	20.0	111	78 - 123
Trichlorofluoromethane (CFC 11)	21.3	20.0	107	68 - 126
Vinyl Chloride	19.5	20.0	97	69 - 133
cis-1,2-Dichloroethene	20.6	20.0	103	80 - 121
cis-1,3-Dichloropropene	20.8	20.0	104	74 - 126
m,p-Xylenes	41.2	40.0	103	78 - 123
o-Xylene	20.7	20.0	104	80 - 120
trans-1,2-Dichloroethene	21.4	20.0	107	80 - 120
trans-1,3-Dichloropropene	22.1	20.0	111	67 - 135

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/22/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477582

Analyte Name	Lab Control Sample RQ1516065-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.4	20.0	102	74 - 120
1,1,2,2-Tetrachloroethane	20.7	20.0	104	78 - 122
1,1,2-Trichloroethane	21.4	20.0	107	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	19.2	20.0	96	75 - 124
1,1-Dichloroethane (1,1-DCA)	22.5	20.0	112	78 - 117
1,1-Dichloroethene (1,1-DCE)	23.4	20.0	117	74 - 135
1,2,3-Trichlorobenzene	16.8	20.0	84	56 - 164
1,2,4-Trichlorobenzene	17.9	20.0	90	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	21.5	20.0	108	55 - 149
1,2-Dibromoethane	22.9	20.0	115	81 - 125
1,2-Dichlorobenzene	19.2	20.0	96	80 - 119
1,2-Dichloroethane	20.5	20.0	102	71 - 127
1,2-Dichloropropane	21.4	20.0	107	80 - 119
1,3-Dichlorobenzene	19.5	20.0	98	79 - 121
1,4-Dichlorobenzene	19.7	20.0	98	79 - 119
1,4-Dioxane	335	400	84	69 - 151
2-Butanone (MEK)	19.4	20.0	97	61 - 137
2-Hexanone	17.2	20.0	86	63 - 124
4-Methyl-2-pentanone	17.7	20.0	88	66 - 124
Acetone	20.4	20.0	102	40 - 161
Benzene	21.1	20.0	105	76 - 118
Bromochloromethane	20.9	20.0	104	81 - 126
Bromodichloromethane	21.6	20.0	108	78 - 126
Bromoform	21.6	20.0	108	71 - 136
Bromomethane	17.0	20.0	85	42 - 166
Carbon Disulfide	22.2	20.0	111	65 - 127
Carbon Tetrachloride	19.0	20.0	95	68 - 125
Chlorobenzene	19.0	20.0	95	80 - 121
Chloroethane	23.6	20.0	118	70 - 127
Chloroform	21.6	20.0	108	76 - 120
Chloromethane	20.6	20.0	103	69 - 145
Cyclohexane	19.4	20.0	97	63 - 121
Dibromochloromethane	22.4	20.0	112	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/22/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477582

Lab Control Sample
RQ1516065-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	21.2	20.0	106	65 - 152
Dichloromethane	21.5	20.0	108	73 - 122
Ethylbenzene	19.0	20.0	95	76 - 120
Isopropylbenzene (Cumene)	16.9	20.0	84	78 - 126
Methyl Acetate	19.1	20.0	95	62 - 131
Methyl tert-Butyl Ether	20.6	20.0	103	78 - 125
Methylcyclohexane	21.6	20.0	108	51 - 129
Styrene	18.2	20.0	91	80 - 124
Tetrachloroethene (PCE)	17.4	20.0	87	78 - 124
Toluene	19.8	20.0	99	77 - 120
Trichloroethene (TCE)	19.7	20.0	98	78 - 123
Trichlorofluoromethane (CFC 11)	22.0	20.0	110	68 - 126
Vinyl Chloride	21.4	20.0	107	69 - 133
cis-1,2-Dichloroethene	22.1	20.0	110	80 - 121
cis-1,3-Dichloropropene	22.4	20.0	112	74 - 126
m,p-Xylenes	35.8	40.0	90	78 - 123
o-Xylene	17.8	20.0	89	80 - 120
trans-1,2-Dichloroethene	21.7	20.0	108	80 - 120
trans-1,3-Dichloropropene	23.5	20.0	118	67 - 135

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477634

Analyte Name	Lab Control Sample RQ1516080-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.6	20.0	103	74 - 120
1,1,2,2-Tetrachloroethane	20.5	20.0	102	78 - 122
1,1,2-Trichloroethane	19.8	20.0	99	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	20.5	20.0	102	75 - 124
1,1-Dichloroethane (1,1-DCA)	22.2	20.0	111	78 - 117
1,1-Dichloroethene (1,1-DCE)	22.5	20.0	113	74 - 135
1,2,3-Trichlorobenzene	19.8	20.0	99	56 - 164
1,2,4-Trichlorobenzene	21.2	20.0	106	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	20.7	20.0	104	55 - 149
1,2-Dibromoethane	23.0	20.0	115	81 - 125
1,2-Dichlorobenzene	21.3	20.0	106	80 - 119
1,2-Dichloroethane	19.9	20.0	99	71 - 127
1,2-Dichloropropane	21.3	20.0	106	80 - 119
1,3-Dichlorobenzene	21.3	20.0	107	79 - 121
1,4-Dichlorobenzene	21.5	20.0	107	79 - 119
1,4-Dioxane	318	400	80	69 - 151
2-Butanone (MEK)	18.6	20.0	93	61 - 137
2-Hexanone	17.2	20.0	86	63 - 124
4-Methyl-2-pentanone	17.8	20.0	89	66 - 124
Acetone	19.6	20.0	98	40 - 161
Benzene	21.0	20.0	105	76 - 118
Bromochloromethane	20.2	20.0	101	81 - 126
Bromodichloromethane	20.7	20.0	103	78 - 126
Bromoform	21.0	20.0	105	71 - 136
Bromomethane	20.5	20.0	102	42 - 166
Carbon Disulfide	19.3	20.0	97	65 - 127
Carbon Tetrachloride	18.9	20.0	95	68 - 125
Chlorobenzene	20.2	20.0	101	80 - 121
Chloroethane	22.1	20.0	110	70 - 127
Chloroform	20.8	20.0	104	76 - 120
Chloromethane	20.9	20.0	104	69 - 145
Cyclohexane	18.5	20.0	92	63 - 121
Dibromochloromethane	21.8	20.0	109	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477634

Lab Control Sample
RQ1516080-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	20.2	20.0	101	65 - 152
Dichloromethane	21.5	20.0	108	73 - 122
Ethylbenzene	20.4	20.0	102	76 - 120
Isopropylbenzene (Cumene)	19.4	20.0	97	78 - 126
Methyl Acetate	18.7	20.0	93	62 - 131
Methyl tert-Butyl Ether	19.6	20.0	98	78 - 125
Methylcyclohexane	19.4	20.0	97	51 - 129
Styrene	19.8	20.0	99	80 - 124
Tetrachloroethene (PCE)	19.6	20.0	98	78 - 124
Toluene	20.4	20.0	102	77 - 120
Trichloroethene (TCE)	21.1	20.0	106	78 - 123
Trichlorofluoromethane (CFC 11)	21.7	20.0	108	68 - 126
Vinyl Chloride	21.0	20.0	105	69 - 133
cis-1,2-Dichloroethene	21.5	20.0	108	80 - 121
cis-1,3-Dichloropropene	21.8	20.0	109	74 - 126
m,p-Xylenes	39.5	40.0	99	78 - 123
o-Xylene	19.3	20.0	97	80 - 120
trans-1,2-Dichloroethene	21.0	20.0	105	80 - 120
trans-1,3-Dichloropropene	22.5	20.0	113	67 - 135

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

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

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
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January 07, 2016

Analytical Report for Service Request No: R1510962

Mr. Rob Napieralski
Labella Associates, PC
300 Pearl Street
Suite 130
Buffalo, NY 14202

Laboratory Results for: Roblin/Alumax Wells/2160148

Dear Mr. Napieralski:

Enclosed are the results of the sample(s) submitted to our laboratory on December 16, 2015. For your reference, these analyses have been assigned our service request number **R1510962**.

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

CC: Chris Kibler

ALS Environmental

SDG NARRATIVE

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

Client:	Labella Associates
Service Request No.:	R1510962
Project:	Roblin/Alumax Wells
Date Received:	12/16/15
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).

Sample Receipt

Samples were received for analysis at ALS Environmental on 12/16/15 in good condition. 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.

Volatile Organics

Samples were analyzed for a site list of Volatile Organics by Methods 5030C/8260C from SW-846.

All Tuning criteria for BFB 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 1,4-Dioxane, 2-Hexanone, 4-Methyl-2-pentanone and Bromomethane on the 12/21/15 CCV and 1,4-Dioxane on the 12/23/15 CCV. All positive detections for this compound for samples associated with this CCV should be considered as estimated.

All Internal Standard Areas (IS) were within QC limits.

All surrogate standard recoveries were acceptable.

All Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD) recoveries were within limits.

Site specific QC was not requested on these samples.

The Method Blanks associated with these samples were free of contamination except for low level detections for 1,2,4-Trichlorobenzene, Bromomethane, Hexachlorobutadiene and Naphthalene on the 12/17/15 blank and 1,2,4-Trichlorobenzene, Hexachlorobutadiene and Naphthalene on the 12/18/15 blank. All affected data has been flagged with a "B".

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 2160148	Batch Complete: Yes	Date Revised:
Submission: R1510962	Diskette Requested: No	Date Due: 1/5/16
Client: Labella Associates, PC	Date: 1/7/16	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Roblin/Alumax Wells	Chain of Custody: Present/Absent:	SDG #: MW-12

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1510962-001	MW-12	Water	8260C	12/15/15	12/16/15			
R1510962-002	MW-9R	Water	8260C	12/15/15	12/16/15			
R1510962-002.R01	MW-9R	Water	8260C	12/15/15	12/16/15			
R1510962-003	MW-7R	Water	8260C	12/15/15	12/16/15			
R1510962-004	MW-4	Water	8260C	12/15/15	12/16/15			
R1510962-005	MW-1	Water	8260C	12/15/15	12/16/15			
R1510962-006	EX-MW-12	Water	8260C	12/15/15	12/16/15			
R1510962-007	MW-2R	Water	8260C	12/15/15	12/16/15			
R1510962-008	EX-MW-11R	Water	8260C	12/15/15	12/16/15			
R1510962-008.R01	EX-MW-11R	Water	8260C	12/15/15	12/16/15			
R1510962-009	AL-2	Water	8260C	12/15/15	12/16/15			
R1510962-010	AL-1	Water	8260C	12/15/15	12/16/15			
R1510962-010.R01	AL-1	Water	8260C	12/15/15	12/16/15			
R1510962-011	AL-7	Water	8260C	12/15/15	12/16/15			
R1510962-012	Field Duplicate	Water	8260C	12/15/15	12/16/15			
R1510962-012.R01	Field Duplicate	Water	8260C	12/15/15	12/16/15			
R1510962-013	Trip Blank	Water	8260C	12/15/15	12/16/15			

Folder Comments: MRL U

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/Arocior 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
www.alsglobal.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

32914

ALS Environmental

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

Project Name: Robin/Alumax Wells	Project Number: 2160148
Project Manager: Rob Napieralski	Report CC:
Company/Address: 300 Pearl Street, Suite 130, Buffalo NY 14202, LaBella Associates, DPC.	
Phone #: 716-551-6281	Email: rnapieralski@labellapc.com
Sampler's Signature:	Sampler's Printed Name: Chris Kibler

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
MW-12		12-15-15	9:10	GW	3	X							
MW-9R		12-15-15	9:45	GW	3	X							
MW-7R		12-15-15	10:20	GW	3	X							
MW-4		12-15-15	11:00	GW	3	X							
MW-1		12-15-15	11:30	GW	3	X							
EX-MW-12		12-15-15	12:10	GW	3	X							
MW-2R		12-15-15	12:35	GW	3	X							
EX-MW-11R		12-15-15	13:10	GW	3	X							
AL-2		12-15-15	13:50	GW	3	X							
AL-1		12-15-15	14:25	GW	3	X							
AL-7		12-15-15	15:00	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

Trip Blank - TCL VOC's analysis (8260)

Field Duplicate - TCL VOC's analysis (8260)
12-15-15, 13:10

See QAPP ☐

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day X 5 day
Standard Turn
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
NYASP Category B
Edata _____ Yes X No

INVOICE INFORMATION
PO # 2160148
BILL TO: LaBella
300 Pearl St
Buffalo, NY. 14202
Suite 130

STATE WHERE SAMPLES WERE COLLECTED: 320 S. Roberts Rd, Dunkirk, NY.

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	
Printed Name: Chris Kibler	Printed Name: Pat Bennett	Printed Name: Pat Bennett	Printed Name:	Printed Name	
Firm: LaBella	Firm: ALS	Firm: ALS	Firm: 12/16/15 / 1820	Firm	
Date/Time: 12-16-15 / 3pm	Date/Time: 12-16-15 1500	Date/Time: 12-16-15 1820	Date/Time	Date/Time	Date/Time

R1510962 5
Labella Associates, PC
Robiln/Alumax Wells

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

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Cooler Receipt and Preservati

R1510962 **5**
Labella Associates, PC
Robiln/Alumax Wells

Project/Client Kheops Folder Number

Cooler received on 12/16/15 by: DM

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 DM 12/16/15
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: 12/16/15 Time: 1835 ID: IR#3 (IR#5) From: Temp Blank (Sample Bottle)

Observed Temp (°C)	5.5°	7.3C					
Correction Factor (°C)	+0.0°	-1.8°					
Corrected Temp (°C)	5.5C	5.5°					
Within 0-6°C?	(Y) N	(Y) N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: R-007 by DM on 12/16/15 at 1835
5035 samples placed in storage location: R-FO9 by ↓ on ↓ at ↓

PC Secondary Review: DM 12/21/15

Cooler Breakdown: Date: 12/18/15 Time: 0903 by: MDS

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	**	**	411070	11/16				

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

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-211-007
Other Comments:

PC Secondary Review: DM 12/21/15

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

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1510962-001.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
R1510962-001.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-001.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-002.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-002.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-002.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-003.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
R1510962-003.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-003.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-004.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
R1510962-004.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-004.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-005.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-005.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-005.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-006.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
R1510962-006.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-006.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-007.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1510962-007.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-007.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-008.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-008.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-008.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-009.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
R1510962-009.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-009.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-010.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
		12/23/15	1250	In Lab / FNAEGLER	
		12/23/15	1326	R-001-S10 / FNAEGLER	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1510962-010.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-010.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-011.01					
	8260C				
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-011.02					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-011.03					
		12/18/15	0838	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-012.01					
	8260C				
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-012.02					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-012.03					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-013.01					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-013.02					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1510962-013.03					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-013.04					
	8260C				
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
		12/21/15	1251	In Lab / FNAEGLER	
		12/21/15	1734	R-001-S10 / FNAEGLER	
		12/23/15	0859	In Lab / FNAEGLER	
		12/23/15	0902	R-001-S10 / FNAEGLER	
R1510962-013.05					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	
R1510962-013.06					
		12/18/15	0859	SMO / GLAFORCE	
		12/18/15	0900	R-001 / GLAFORCE	

ALS Environmental

VOLATILE ORGANICS
QC SUMMARY

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/21/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477252

Analyte Name	Lab Control Sample RQ1515808-02 Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.5	20.0	103	74 - 120
1,1,2,2-Tetrachloroethane	20.3	20.0	102	78 - 122
1,1,2-Trichloroethane	19.8	20.0	99	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	19.2	20.0	96	75 - 124
1,1-Dichloroethane (1,1-DCA)	20.3	20.0	102	78 - 117
1,1-Dichloroethene (1,1-DCE)	22.4	20.0	112	74 - 135
1,2,3-Trichlorobenzene	19.5	20.0	97	56 - 164
1,2,4-Trichlorobenzene	20.6	20.0	103	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	22.2	20.0	111	55 - 149
1,2-Dibromoethane	24.0	20.0	120	81 - 125
1,2-Dichlorobenzene	21.9	20.0	109	80 - 119
1,2-Dichloroethane	17.7	20.0	89	71 - 127
1,2-Dichloropropane	20.1	20.0	100	80 - 119
1,3-Dichlorobenzene	22.2	20.0	111	79 - 121
1,4-Dichlorobenzene	21.8	20.0	109	79 - 119
1,4-Dioxane	315	400	79	69 - 151
2-Butanone (MEK)	16.3	20.0	82	61 - 137
2-Hexanone	16.7	20.0	83	63 - 124
4-Methyl-2-pentanone	16.0	20.0	80	66 - 124
Acetone	17.0	20.0	85	40 - 161
Benzene	19.4	20.0	97	76 - 118
Bromochloromethane	21.3	20.0	106	81 - 126
Bromodichloromethane	20.4	20.0	102	78 - 126
Bromoform	23.2	20.0	116	71 - 136
Bromomethane	24.2	20.0	121	42 - 166
Carbon Disulfide	20.5	20.0	103	65 - 127
Carbon Tetrachloride	20.2	20.0	101	68 - 125
Chlorobenzene	21.0	20.0	105	80 - 121
Chloroethane	20.6	20.0	103	70 - 127
Chloroform	19.8	20.0	99	76 - 120
Chloromethane	17.6	20.0	88	69 - 145
Cyclohexane	14.6	20.0	73	63 - 121
Dibromochloromethane	24.8	20.0	124	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/21/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477252

Lab Control Sample
RQ1515808-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	19.6	20.0	98	65 - 152
Dichloromethane	19.4	20.0	97	73 - 122
Ethylbenzene	21.7	20.0	108	76 - 120
Isopropylbenzene (Cumene)	20.0	20.0	100	78 - 126
Methyl Acetate	15.0	20.0	75	62 - 131
Methyl tert-Butyl Ether	18.7	20.0	94	78 - 125
Methylcyclohexane	16.5	20.0	83	51 - 129
Styrene	20.8	20.0	104	80 - 124
Tetrachloroethene (PCE)	21.5	20.0	107	78 - 124
Toluene	19.8	20.0	99	77 - 120
Trichloroethene (TCE)	22.2	20.0	111	78 - 123
Trichlorofluoromethane (CFC 11)	21.3	20.0	107	68 - 126
Vinyl Chloride	19.5	20.0	97	69 - 133
cis-1,2-Dichloroethene	20.6	20.0	103	80 - 121
cis-1,3-Dichloropropene	20.8	20.0	104	74 - 126
m,p-Xylenes	41.2	40.0	103	78 - 123
o-Xylene	20.7	20.0	104	80 - 120
trans-1,2-Dichloroethene	21.4	20.0	107	80 - 120
trans-1,3-Dichloropropene	22.1	20.0	111	67 - 135

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/22/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477582

Lab Control Sample
RQ1516065-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.4	20.0	102	74 - 120
1,1,2,2-Tetrachloroethane	20.7	20.0	104	78 - 122
1,1,2-Trichloroethane	21.4	20.0	107	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	19.2	20.0	96	75 - 124
1,1-Dichloroethane (1,1-DCA)	22.5	20.0	112	78 - 117
1,1-Dichloroethene (1,1-DCE)	23.4	20.0	117	74 - 135
1,2,3-Trichlorobenzene	16.8	20.0	84	56 - 164
1,2,4-Trichlorobenzene	17.9	20.0	90	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	21.5	20.0	108	55 - 149
1,2-Dibromoethane	22.9	20.0	115	81 - 125
1,2-Dichlorobenzene	19.2	20.0	96	80 - 119
1,2-Dichloroethane	20.5	20.0	102	71 - 127
1,2-Dichloropropane	21.4	20.0	107	80 - 119
1,3-Dichlorobenzene	19.5	20.0	98	79 - 121
1,4-Dichlorobenzene	19.7	20.0	98	79 - 119
1,4-Dioxane	335	400	84	69 - 151
2-Butanone (MEK)	19.4	20.0	97	61 - 137
2-Hexanone	17.2	20.0	86	63 - 124
4-Methyl-2-pentanone	17.7	20.0	88	66 - 124
Acetone	20.4	20.0	102	40 - 161
Benzene	21.1	20.0	105	76 - 118
Bromochloromethane	20.9	20.0	104	81 - 126
Bromodichloromethane	21.6	20.0	108	78 - 126
Bromoform	21.6	20.0	108	71 - 136
Bromomethane	17.0	20.0	85	42 - 166
Carbon Disulfide	22.2	20.0	111	65 - 127
Carbon Tetrachloride	19.0	20.0	95	68 - 125
Chlorobenzene	19.0	20.0	95	80 - 121
Chloroethane	23.6	20.0	118	70 - 127
Chloroform	21.6	20.0	108	76 - 120
Chloromethane	20.6	20.0	103	69 - 145
Cyclohexane	19.4	20.0	97	63 - 121
Dibromochloromethane	22.4	20.0	112	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/22/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477582

Lab Control Sample
RQ1516065-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	21.2	20.0	106	65 - 152
Dichloromethane	21.5	20.0	108	73 - 122
Ethylbenzene	19.0	20.0	95	76 - 120
Isopropylbenzene (Cumene)	16.9	20.0	84	78 - 126
Methyl Acetate	19.1	20.0	95	62 - 131
Methyl tert-Butyl Ether	20.6	20.0	103	78 - 125
Methylcyclohexane	21.6	20.0	108	51 - 129
Styrene	18.2	20.0	91	80 - 124
Tetrachloroethene (PCE)	17.4	20.0	87	78 - 124
Toluene	19.8	20.0	99	77 - 120
Trichloroethene (TCE)	19.7	20.0	98	78 - 123
Trichlorofluoromethane (CFC 11)	22.0	20.0	110	68 - 126
Vinyl Chloride	21.4	20.0	107	69 - 133
cis-1,2-Dichloroethene	22.1	20.0	110	80 - 121
cis-1,3-Dichloropropene	22.4	20.0	112	74 - 126
m,p-Xylenes	35.8	40.0	90	78 - 123
o-Xylene	17.8	20.0	89	80 - 120
trans-1,2-Dichloroethene	21.7	20.0	108	80 - 120
trans-1,3-Dichloropropene	23.5	20.0	118	67 - 135

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477634

Lab Control Sample
RQ1516080-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.6	20.0	103	74 - 120
1,1,2,2-Tetrachloroethane	20.5	20.0	102	78 - 122
1,1,2-Trichloroethane	19.8	20.0	99	82 - 118
1,1,2-Trichloro-1,2,2-trifluoroethane	20.5	20.0	102	75 - 124
1,1-Dichloroethane (1,1-DCA)	22.2	20.0	111	78 - 117
1,1-Dichloroethene (1,1-DCE)	22.5	20.0	113	74 - 135
1,2,3-Trichlorobenzene	19.8	20.0	99	56 - 164
1,2,4-Trichlorobenzene	21.2	20.0	106	68 - 147
1,2-Dibromo-3-chloropropane (DBCP)	20.7	20.0	104	55 - 149
1,2-Dibromoethane	23.0	20.0	115	81 - 125
1,2-Dichlorobenzene	21.3	20.0	106	80 - 119
1,2-Dichloroethane	19.9	20.0	99	71 - 127
1,2-Dichloropropane	21.3	20.0	106	80 - 119
1,3-Dichlorobenzene	21.3	20.0	107	79 - 121
1,4-Dichlorobenzene	21.5	20.0	107	79 - 119
1,4-Dioxane	318	400	80	69 - 151
2-Butanone (MEK)	18.6	20.0	93	61 - 137
2-Hexanone	17.2	20.0	86	63 - 124
4-Methyl-2-pentanone	17.8	20.0	89	66 - 124
Acetone	19.6	20.0	98	40 - 161
Benzene	21.0	20.0	105	76 - 118
Bromochloromethane	20.2	20.0	101	81 - 126
Bromodichloromethane	20.7	20.0	103	78 - 126
Bromoform	21.0	20.0	105	71 - 136
Bromomethane	20.5	20.0	102	42 - 166
Carbon Disulfide	19.3	20.0	97	65 - 127
Carbon Tetrachloride	18.9	20.0	95	68 - 125
Chlorobenzene	20.2	20.0	101	80 - 121
Chloroethane	22.1	20.0	110	70 - 127
Chloroform	20.8	20.0	104	76 - 120
Chloromethane	20.9	20.0	104	69 - 145
Cyclohexane	18.5	20.0	92	63 - 121
Dibromochloromethane	21.8	20.0	109	77 - 128

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/23/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 477634

Lab Control Sample
RQ1516080-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Dichlorodifluoromethane (CFC 12)	20.2	20.0	101	65 - 152
Dichloromethane	21.5	20.0	108	73 - 122
Ethylbenzene	20.4	20.0	102	76 - 120
Isopropylbenzene (Cumene)	19.4	20.0	97	78 - 126
Methyl Acetate	18.7	20.0	93	62 - 131
Methyl tert-Butyl Ether	19.6	20.0	98	78 - 125
Methylcyclohexane	19.4	20.0	97	51 - 129
Styrene	19.8	20.0	99	80 - 124
Tetrachloroethene (PCE)	19.6	20.0	98	78 - 124
Toluene	20.4	20.0	102	77 - 120
Trichloroethene (TCE)	21.1	20.0	106	78 - 123
Trichlorofluoromethane (CFC 11)	21.7	20.0	108	68 - 126
Vinyl Chloride	21.0	20.0	105	69 - 133
cis-1,2-Dichloroethene	21.5	20.0	108	80 - 121
cis-1,3-Dichloropropene	21.8	20.0	109	74 - 126
m,p-Xylenes	39.5	40.0	99	78 - 123
o-Xylene	19.3	20.0	97	80 - 120
trans-1,2-Dichloroethene	21.0	20.0	105	80 - 120
trans-1,3-Dichloropropene	22.5	20.0	113	67 - 135

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: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Analyzed: 12/21/15 13:03

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1515808-01

Instrument ID: R-MS-10
File ID: I:\ACQUDATA\msvoa10\data\122115\F5187.D\

Analytical Method: 8260C
Prep Method: EPA 5030C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1515808-02	I:\ACQUDATA\msvoa10\data\122115\F5185.D\	12/21/15 12:09
Field Blank (DUPLICATE)	R1510962-012	I:\ACQUDATA\msvoa10\data\122115\F5197.D\	12/21/15 17:18
MW-12	R1510962-001	I:\ACQUDATA\msvoa10\data\122115\F5199.D\	12/21/15 18:07
MW-9R	R1510962-002	I:\ACQUDATA\msvoa10\data\122115\F5200.D\	12/21/15 18:31
MW-7R	R1510962-003	I:\ACQUDATA\msvoa10\data\122115\F5201.D\	12/21/15 18:55
MW-4	R1510962-004	I:\ACQUDATA\msvoa10\data\122115\F5202.D\	12/21/15 19:19
EX-MW-12	R1510962-006	I:\ACQUDATA\msvoa10\data\122115\F5204.D\	12/21/15 20:08
MW-2R	R1510962-007	I:\ACQUDATA\msvoa10\data\122115\F5205.D\	12/21/15 20:32
EX-MW-11R	R1510962-008	I:\ACQUDATA\msvoa10\data\122115\F5206.D\	12/21/15 20:57
AL-2	R1510962-009	I:\ACQUDATA\msvoa10\data\122115\F5207.D\	12/21/15 21:21

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Analyzed:**	12/22/15 17:23
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1516065-01	**File ID:**	I:\ACQUDATA\msvoa10\data\122215\F5224.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1516065-02	I:\ACQUDATA\msvoa10\data\122215\F5222.D\	12/22/15 16:29
Trip Blank	R1510962-013	I:\ACQUDATA\msvoa10\data\122215\F5225.D\	12/22/15 17:47
MW-1	R1510962-005	I:\ACQUDATA\msvoa10\data\122215\F5226.D\	12/22/15 18:11
AL-7	R1510962-011	I:\ACQUDATA\msvoa10\data\122215\F5227.D\	12/22/15 18:36
AL-1	R1510962-010	I:\ACQUDATA\msvoa10\data\122215\F5228.D\	12/22/15 19:00
MW-9R	R1510962-002	I:\ACQUDATA\msvoa10\data\122215\F5229.D\	12/22/15 19:24
EX-MW-11R	R1510962-008	I:\ACQUDATA\msvoa10\data\122215\F5230.D\	12/22/15 19:49
Field Blank (DUPLICATE)	R1510962-012	I:\ACQUDATA\msvoa10\data\122215\F5231.D\	12/22/15 20:13

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Analyzed:**	12/23/15 11:51
Sample Matrix:	Water		

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name:	Method Blank	**Instrument ID:**	R-MS-10
Lab Code:	RQ1516080-01	**File ID:**	I:\ACQUDATA\msvoa10\data\122315\F5255.D\
Analytical Method:	8260C		
Prep Method:	EPA 5030C		

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1516080-02	I:\ACQUDATA\msvoa10\data\122315\F5252.D\	12/23/15 10:35
AL-1	R1510962-010	I:\ACQUDATA\msvoa10\data\122315\F5256.D\	12/23/15 12:18

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 10/19/15 17:20

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\101915\F3226.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot:

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.4	86355	Pass
75	95	30	60	49.7	162475	Pass
95	95	100	100	100.0	326955	Pass
96	95	5	9	6.8	22173	Pass
173	174	0	2	1.0	2677	Pass
174	95	50	120	82.2	268693	Pass
175	174	5	9	8.0	21555	Pass
176	174	95	101	95.7	257088	Pass
177	176	5	9	6.4	16529	Pass

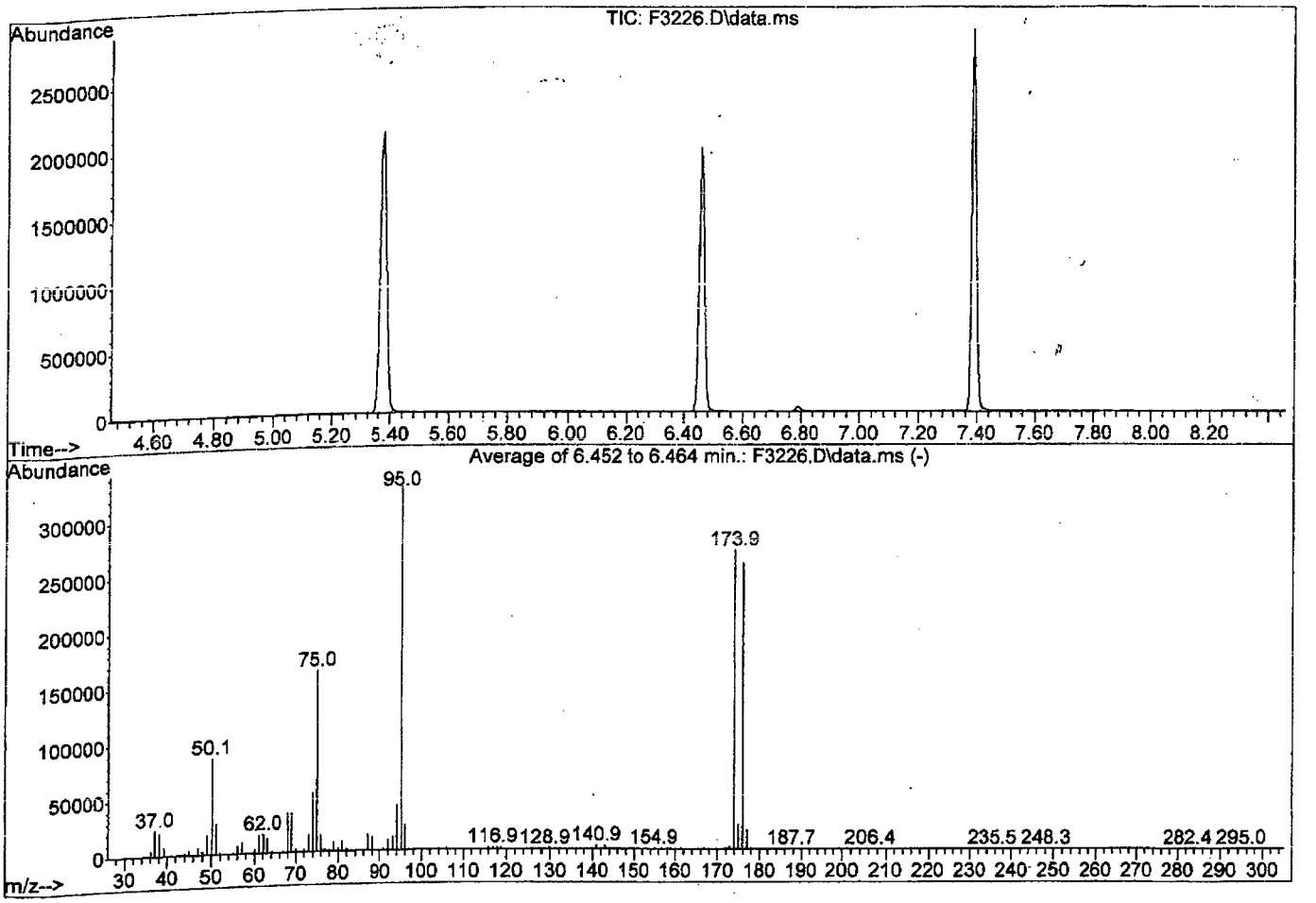
Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\101915\F3228.D\	10/19/15 18:23	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\101915\F3229.D\	10/19/15 18:47	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\101915\F3230.D\	10/19/15 19:11	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\101915\F3231.D\	10/19/15 19:35	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa10\data\101915\F3232.D\	10/19/15 20:00	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\101915\F3233.D\	10/19/15 20:24	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\101915\F3234.D\	10/19/15 20:48	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\101915\F3235.D\	10/19/15 21:13	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\101915\F3236.D\	10/19/15 21:37	

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3226.D
Acq On : 19 Oct 2015 5:20 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T101915.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FV 10/20/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	86355	PASS
75	95	30	60	49.7	162475	PASS
95	95	100	100	100.0	326955	PASS
96	95	5	9	6.8	22173	PASS
173	174	0.00	2	1.0	2677	PASS
174	95	50	120	82.2	268693	PASS
175	174	5	9	8.0	21555	PASS
176	174	95	101	95.7	257088	PASS
177	176	5	9	6.4	16529	PASS

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/21/15 10:57

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\122115\F5183.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 477252

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	21.65	60883	Pass
75	95	30	60	46.15	129800	Pass
95	95	100	100	100.00	281237	Pass
96	95	5	9	6.31	17733	Pass
173	174	0	2	0.93	2219	Pass
174	95	50	120	84.75	238336	Pass
175	174	5	9	7.58	18077	Pass
176	174	95	101	99.73	237696	Pass
177	176	5	9	6.47	15379	Pass

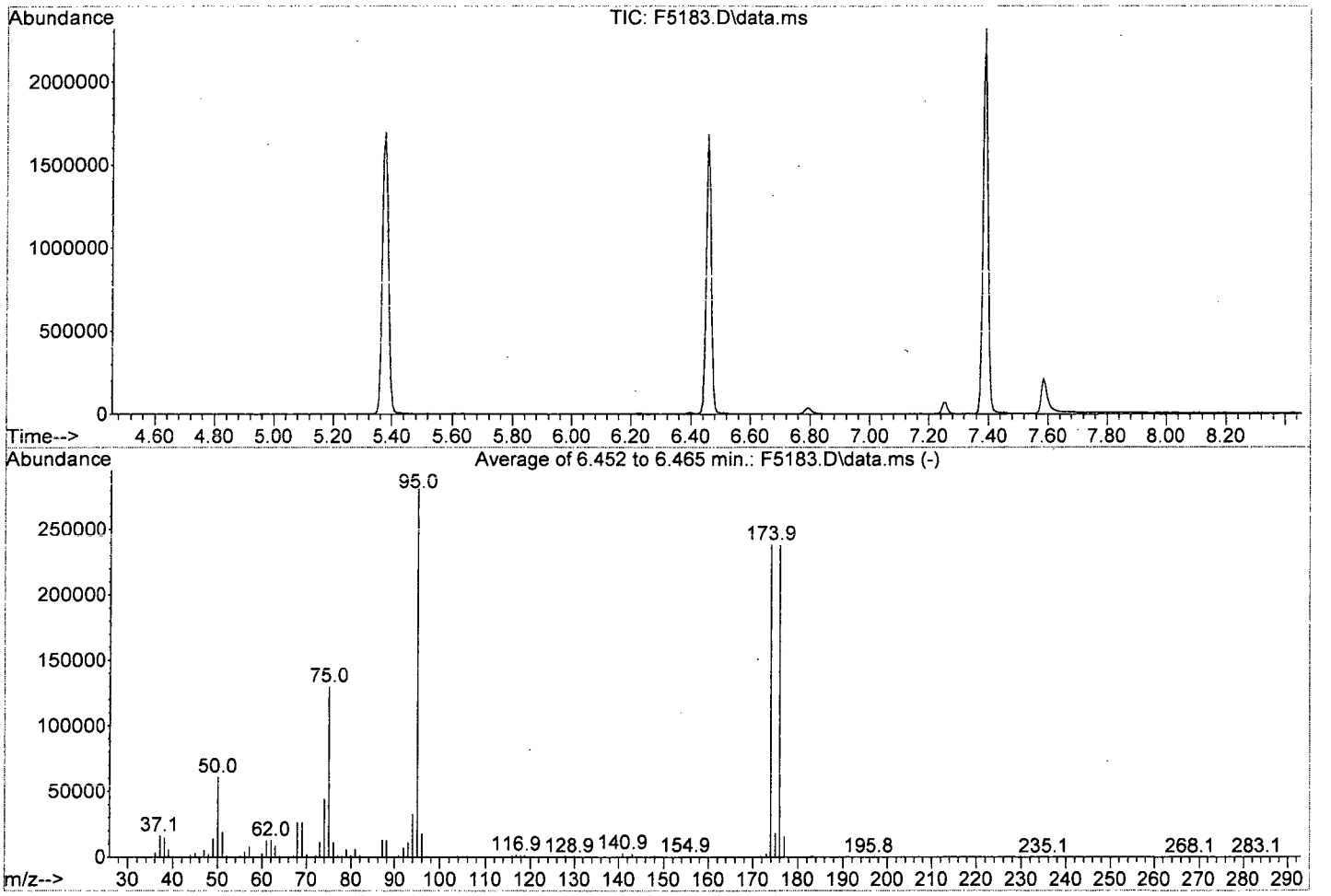
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1515808-04	I:\ACQUDATA\msvoa10\data\122115\F5184.D\	12/21/15 11:36	
Lab Control Sample	RQ1515808-02	I:\ACQUDATA\msvoa10\data\122115\F5185.D\	12/21/15 12:09	
Method Blank	RQ1515808-01	I:\ACQUDATA\msvoa10\data\122115\F5187.D\	12/21/15 13:03	
Field Blank (DUPLICATE)	R1510962-012	I:\ACQUDATA\msvoa10\data\122115\F5197.D\	12/21/15 17:18	
MW-12	R1510962-001	I:\ACQUDATA\msvoa10\data\122115\F5199.D\	12/21/15 18:07	
MW-9R	R1510962-002	I:\ACQUDATA\msvoa10\data\122115\F5200.D\	12/21/15 18:31	
MW-7R	R1510962-003	I:\ACQUDATA\msvoa10\data\122115\F5201.D\	12/21/15 18:55	
MW-4	R1510962-004	I:\ACQUDATA\msvoa10\data\122115\F5202.D\	12/21/15 19:19	
EX-MW-12	R1510962-006	I:\ACQUDATA\msvoa10\data\122115\F5204.D\	12/21/15 20:08	
MW-2R	R1510962-007	I:\ACQUDATA\msvoa10\data\122115\F5205.D\	12/21/15 20:32	
EX-MW-11R	R1510962-008	I:\ACQUDATA\msvoa10\data\122115\F5206.D\	12/21/15 20:57	
AL-2	R1510962-009	I:\ACQUDATA\msvoa10\data\122115\F5207.D\	12/21/15 21:21	

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5183.D
Acq On : 21 Dec 2015 10:57 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T101915.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FD 12/21/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	60883	PASS
75	95	30	60	46.2	129800	PASS
95	95	100	100	100.0	281237	PASS
96	95	5	9	6.3	17733	PASS
173	174	0.00	2	0.9	2219	PASS
174	95	50	120	84.7	238336	PASS
175	174	5	9	7.6	18077	PASS
176	174	95	101	99.7	237696	PASS
177	176	5	9	6.5	15379	PASS

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/22/15 14:23

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\122215\F5218.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 477582

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	25.97	72205	Pass
75	95	30	60	49.77	138365	Pass
95	95	100	100	100.00	277995	Pass
96	95	5	9	6.64	18453	Pass
173	174	0	2	1.52	3401	Pass
174	95	50	120	80.65	224213	Pass
175	174	5	9	7.83	17546	Pass
176	174	95	101	99.25	222528	Pass
177	176	5	9	6.49	14439	Pass

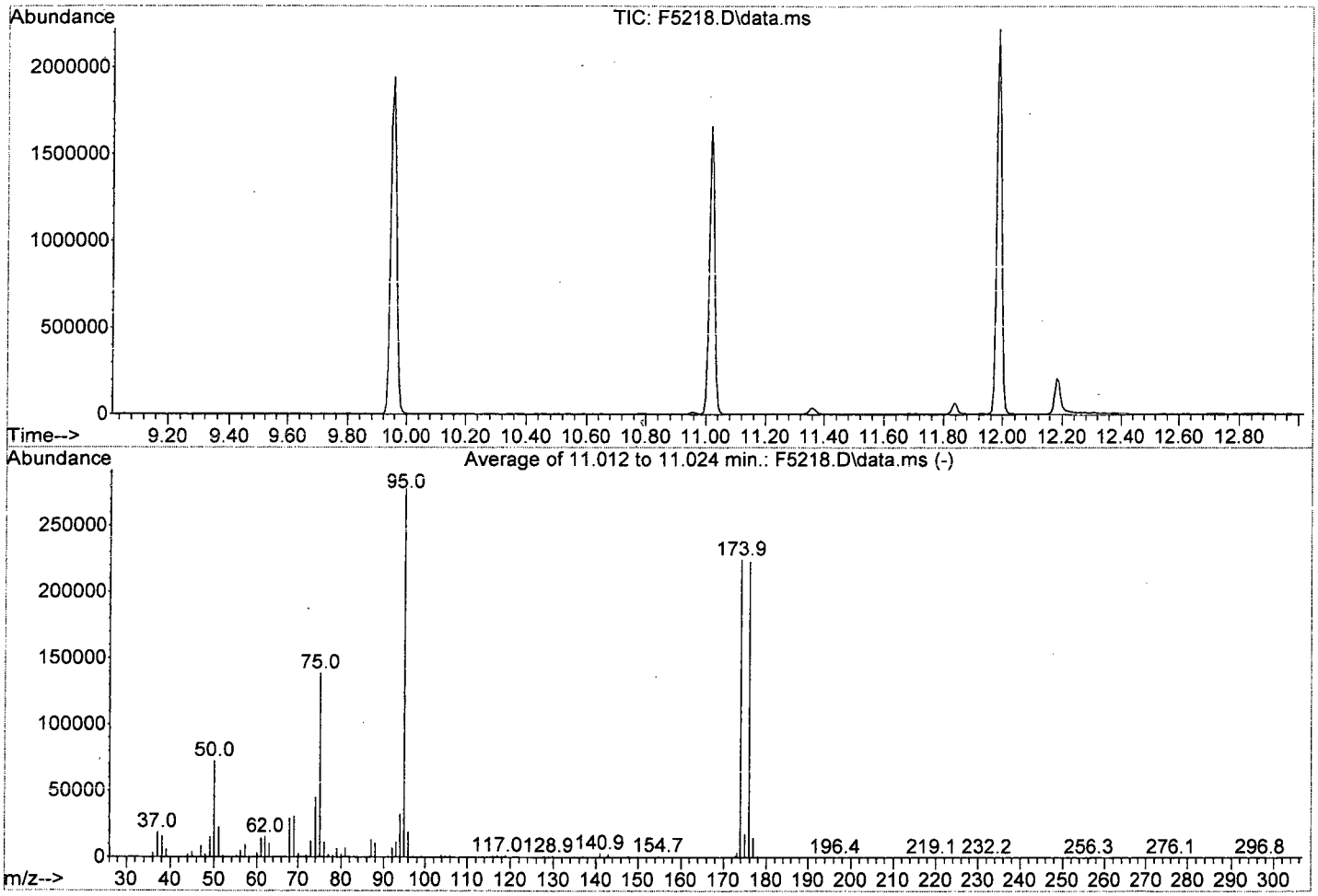
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1516065-04	I:\ACQUDATA\msvoa10\data\122215\F5220.D\	12/22/15 15:29	
Lab Control Sample	RQ1516065-02	I:\ACQUDATA\msvoa10\data\122215\F5222.D\	12/22/15 16:29	
Method Blank	RQ1516065-01	I:\ACQUDATA\msvoa10\data\122215\F5224.D\	12/22/15 17:23	
Trip Blank	R1510962-013	I:\ACQUDATA\msvoa10\data\122215\F5225.D\	12/22/15 17:47	
MW-1	R1510962-005	I:\ACQUDATA\msvoa10\data\122215\F5226.D\	12/22/15 18:11	
AL-7	R1510962-011	I:\ACQUDATA\msvoa10\data\122215\F5227.D\	12/22/15 18:36	
AL-1	R1510962-010	I:\ACQUDATA\msvoa10\data\122215\F5228.D\	12/22/15 19:00	
MW-9R	R1510962-002	I:\ACQUDATA\msvoa10\data\122215\F5229.D\	12/22/15 19:24	
EX-MW-11R	R1510962-008	I:\ACQUDATA\msvoa10\data\122215\F5230.D\	12/22/15 19:49	
Field Blank (DUPLICATE)	R1510962-012	I:\ACQUDATA\msvoa10\data\122215\F5231.D\	12/22/15 20:13	

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5218.D
Acq On : 22 Dec 2015 2:23 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: CPD4.P

FN 12/22/15

Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Title : MS#10 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 20 12:01:30 2015



AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1623

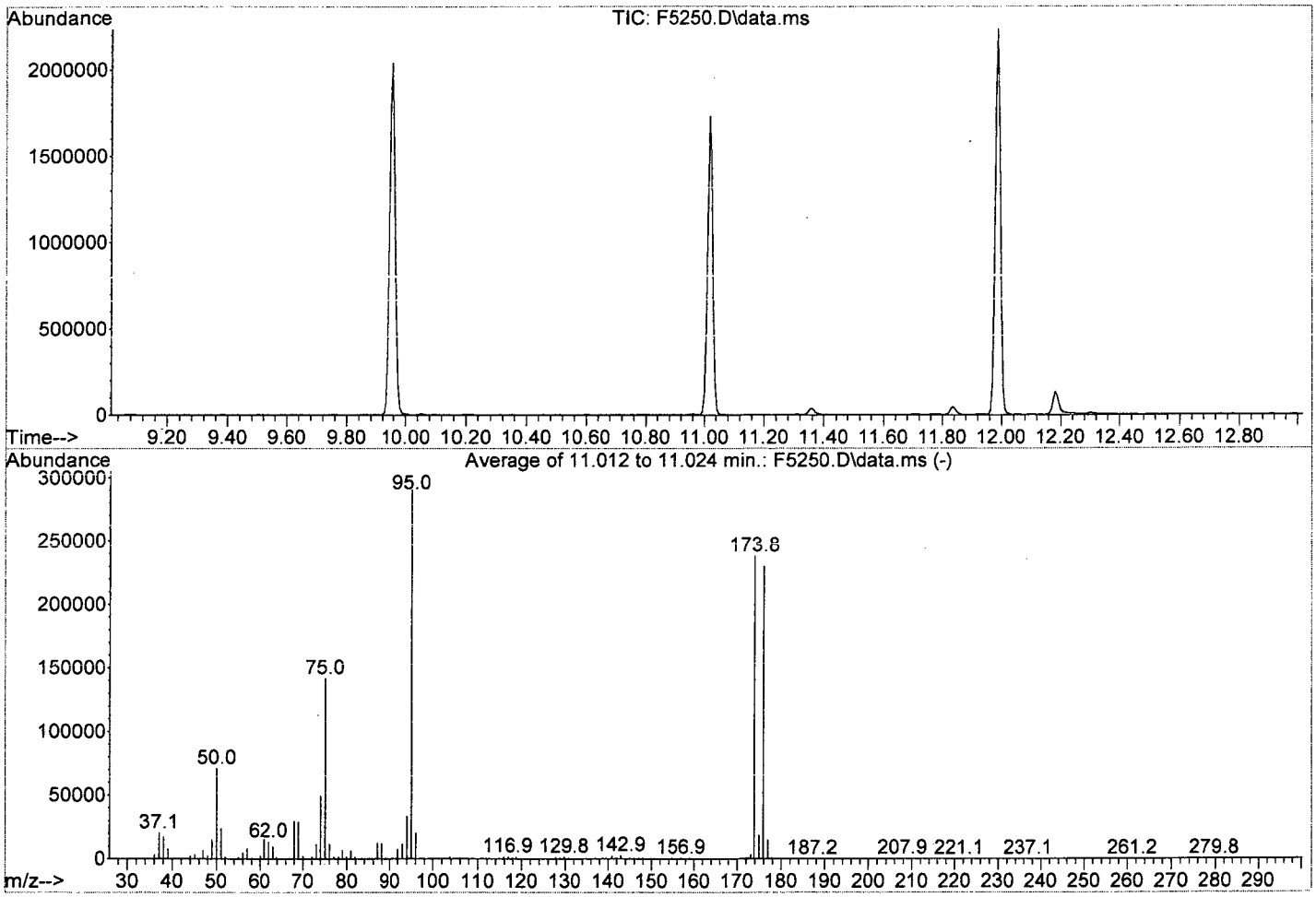
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	72205	PASS
75	95	30	60	49.8	138365	PASS
95	95	100	100	100.0	277995	PASS
96	95	5	9	6.6	18453	PASS
173	174	0.00	2	1.5	3401	PASS
174	95	50	120	80.7	224213	PASS
175	174	5	9	7.8	17546	PASS
176	174	95	101	99.2	222528	PASS
177	176	5	9	6.5	14439	PASS

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5250.D
Acq On : 23 Dec 2015 9:27 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Title : MS#10 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 20 12:01:30 2015

FJ 12/23/15



AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1623

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	70851	PASS
75	95	30	60	48.8	141581	PASS
95	95	100	100	100.0	290325	PASS
96	95	5	9	7.0	20357	PASS
173	174	0.00	2	1.3	3023	PASS
174	95	50	120	82.0	238057	PASS
175	174	5	9	7.7	18217	PASS
176	174	95	101	96.5	229824	PASS
177	176	5	9	6.4	14626	PASS

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/23/15 09:27

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\122315\F5250.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 477634

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	24.40	70851	Pass
75	95	30	60	48.77	141581	Pass
95	95	100	100	100.00	290325	Pass
96	95	5	9	7.01	20357	Pass
173	174	0	2	1.27	3023	Pass
174	95	50	120	82.00	238057	Pass
175	174	5	9	7.65	18217	Pass
176	174	95	101	96.54	229824	Pass
177	176	5	9	6.36	14626	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1516080-04	I:\ACQUDATA\msvoa10\data\122315\F5251.D\	12/23/15 10:01	
Lab Control Sample	RQ1516080-02	I:\ACQUDATA\msvoa10\data\122315\F5252.D\	12/23/15 10:35	
Method Blank	RQ1516080-01	I:\ACQUDATA\msvoa10\data\122315\F5255.D\	12/23/15 11:51	
AL-1	R1510962-010	I:\ACQUDATA\msvoa10\data\122315\F5256.D\	12/23/15 12:18	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/21/15 11:36

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

File ID: I:\ACQUDATA\msvoa10\data\122115\F5184.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1515808-04
Analysis Lot: 477252
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	459,498	11.99	942,466	6.71	833,678	9.96
	Upper Limit ==>	918,996	12.49	1,884,932	7.21	1,667,356	10.46
	Lower Limit ==>	229,749	11.49	471,233	6.21	416,839	9.46
	ICAL Result ==>	479,716	11.99	983,338	6.71	882,179	9.96
Associated Analyses							
Lab Control Sample	RQ1515808-02	438,626	11.99	968,050	6.71	810,224	9.96
Method Blank	RQ1515808-01	414,771	11.99	918,655	6.71	794,270	9.96
Field Blank (DUPLICATE)	R1510962-012	436,438	11.99	948,563	6.71	820,260	9.96
MW-12	R1510962-001	450,658	11.99	982,006	6.71	859,714	9.96
MW-9R	R1510962-002	431,513	11.99	969,327	6.71	831,397	9.96
MW-7R	R1510962-003	419,000	11.99	928,944	6.71	803,849	9.96
MW-4	R1510962-004	426,616	11.99	941,299	6.71	818,334	9.96
EX-MW-12	R1510962-006	417,794	11.99	930,375	6.71	805,784	9.96
MW-2R	R1510962-007	430,657	11.99	975,850	6.71	844,907	9.96
EX-MW-11R	R1510962-008	433,067	11.99	948,528	6.71	829,525	9.96
AL-2	R1510962-009	423,060	11.99	926,284	6.71	808,153	9.96

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/21/15 11:36

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

File ID: I:\ACQUDATA\msvoa10\data\122115\F5184.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1515808-04
Analysis Lot: 477252
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	634,971	5.67
	Upper Limit ==>	1,269,942	6.17
	Lower Limit ==>	317,486	5.17
	ICAL Result ==>	686,550	5.67
Associated Analyses			
Lab Control Sample	RQ1515808-02	649,843	5.67
Method Blank	RQ1515808-01	623,468	5.66
Field Blank (DUPLICATE)	R1510962-012	651,914	5.66
MW-12	R1510962-001	668,905	5.66
MW-9R	R1510962-002	656,427	5.67
MW-7R	R1510962-003	632,464	5.67
MW-4	R1510962-004	640,267	5.67
EX-MW-12	R1510962-006	627,768	5.67
MW-2R	R1510962-007	664,793	5.67
EX-MW-11R	R1510962-008	650,784	5.66
AL-2	R1510962-009	629,184	5.66

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/22/15 15:29

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

File ID: I:\ACQUDATA\msvoa10\data\122215\F5220.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1516065-04
Analysis Lot: 477582
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	426,120	11.99	917,751	6.71	808,394	9.96
	Upper Limit ==>	852,240	12.49	1,835,502	7.21	1,616,788	10.46
	Lower Limit ==>	213,060	11.49	458,876	6.21	404,197	9.46
	ICAL Result ==>	479,716	11.99	983,338	6.71	882,179	9.96
Associated Analyses							
Lab Control Sample	RQ1516065-02	420,794	11.99	920,431	6.71	819,119	9.96
Method Blank	RQ1516065-01	392,051	11.99	888,577	6.71	770,323	9.96
Trip Blank	R1510962-013	389,454	11.99	920,189	6.71	791,404	9.96
MW-1	R1510962-005	398,795	11.99	921,576	6.71	792,634	9.96
AL-7	R1510962-011	396,823	11.99	945,328	6.71	824,846	9.96
AL-1	R1510962-010	400,197	11.99	916,651	6.71	791,633	9.96
MW-9R	R1510962-002	388,728	11.99	882,763	6.71	764,256	9.96
EX-MW-11R	R1510962-008	398,059	11.99	902,714	6.71	790,232	9.96
Field Blank (DUPLICATE)	R1510962-012	392,542	11.99	903,912	6.71	791,062	9.96

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/22/15 15:29

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

File ID: I:\ACQUDATA\msvoa10\data\122215\F5220.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1516065-04
Analysis Lot: 477582
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	605,694	5.67
	Upper Limit ==>	1,211,388	6.17
	Lower Limit ==>	302,847	5.17
	ICAL Result ==>	686,550	5.67
Associated Analyses			
Lab Control Sample	RQ1516065-02	610,981	5.67
Method Blank	RQ1516065-01	588,020	5.67
Trip Blank	R1510962-013	602,999	5.66
MW-1	R1510962-005	610,940	5.67
AL-7	R1510962-011	625,695	5.67
AL-1	R1510962-010	602,341	5.67
MW-9R	R1510962-002	582,952	5.67
EX-MW-11R	R1510962-008	604,173	5.67
Field Blank (DUPLICATE)	R1510962-012	593,561	5.66

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/23/15 10:01

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

File ID: I:\ACQUDATA\msvoa10\data\122315\F5251.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1516080-04
Analysis Lot: 477634
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	**RT**	**Area**	**RT**	**Area**	**RT**
	Results ==>	440,292	11.99	949,834	6.71	828,436	9.96
	Upper Limit ==>	880,584	12.49	1,899,668	7.21	1,656,872	10.46
	Lower Limit ==>	220,146	11.49	474,917	6.21	414,218	9.46
	ICAL Result ==>	479,716	11.99	983,338	6.71	882,179	9.96
Associated Analyses							
Lab Control Sample	RQ1516080-02	430,128	11.99	954,823	6.71	836,850	9.96
Method Blank	RQ1516080-01	411,723	11.99	926,663	6.71	824,144	9.96
AL-1	R1510962-010	434,028	11.99	967,987	6.71	844,241	9.96

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/23/15 10:01

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

File ID: I:\ACQUDATA\msvoa10\data\122315\F5251.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1516080-04
Analysis Lot: 477634
Signal ID:

		Pentafluorobenzene	
		Area	**RT**
	Results ==>	628,908	5.67
	Upper Limit ==>	1,257,816	6.17
	Lower Limit ==>	314,454	5.17
	ICAL Result ==>	686,550	5.67
Associated Analyses			
Lab Control Sample	RQ1516080-02	640,610	5.67
Method Blank	RQ1516080-01	624,981	5.67
AL-1	R1510962-010	641,635	5.66

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

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 0910
Date Received: 12/16/15

Sample Name: MW-12
Lab Code: R1510962-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:07		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:07		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:07		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 18:07		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:07		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:07		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:07		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:07		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:07		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:07		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:07		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:07		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:07		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:07		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:07		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:07		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:07		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:07		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 18:07		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:07		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:07		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:07		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 0910
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-12	**Units:**	µg/L
Lab Code:	R1510962-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:07		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:07		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 18:07		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:07		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 18:07		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 18:07		477252	
cis-1,2-Dichloroethene	0.53	J	1.0	0.30	1	NA	12/21/15 18:07		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:07		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:07		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 18:07		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:07		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	12/21/15 18:07	
Dibromofluoromethane	99	89-119	12/21/15 18:07	
Toluene-d8	102	87-121	12/21/15 18:07	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5199.D
Acq On : 21 Dec 2015 6:07 pm
Operator : F. Naegler
Sample : R1510962-001|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 14:23:42 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

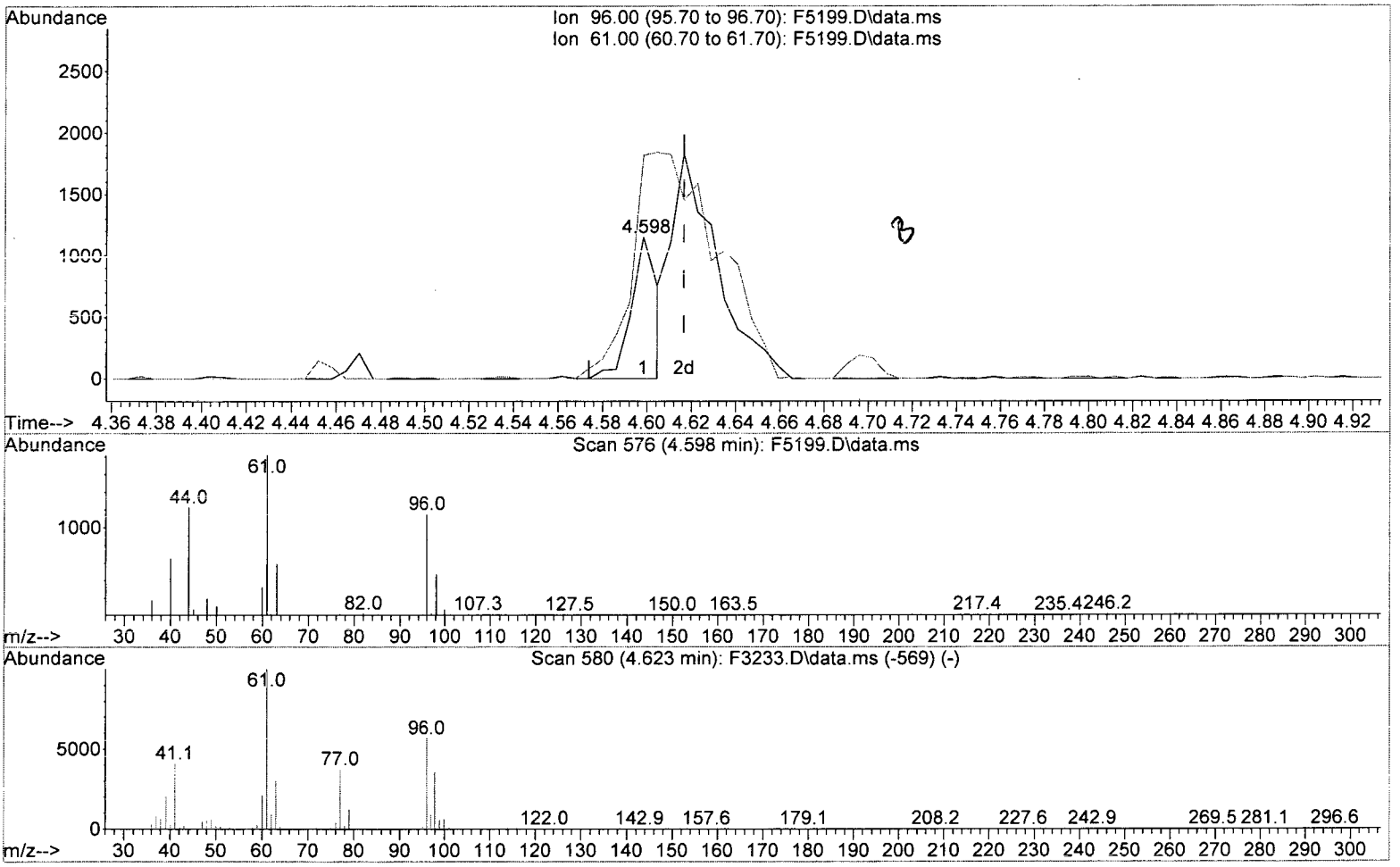
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.659	168	668905	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	982006	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	859714	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	450658	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	298200	49.50	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.00%			
46) surr1,1,2-dichloroetha...	6.025	65	372370	45.96	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.92%			
64) SURR3,Toluene-d8	8.488	98	1146165	51.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.46%			
69) SURR2,BFB	11.018	95	425511	47.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.24%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.373	62	2419	0.22	ug/L #	1
5) Bromomethane	1.623	94	484	Below Cal		97
15) Acetone	2.410	43	3516	0.58	ug/L	83
33) cis-1,2-Dichloroethene	4.617	96	3574m	0.53	ug/L	

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

FW 12/29/15

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5199.D
Acq On : 21 Dec 2015 6:07 pm
Operator : F. Naegler
Sample : R1510962-001|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 21 18:21:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5199.D\data.ms

(33) cis-1,2-Dichloroethene (P)

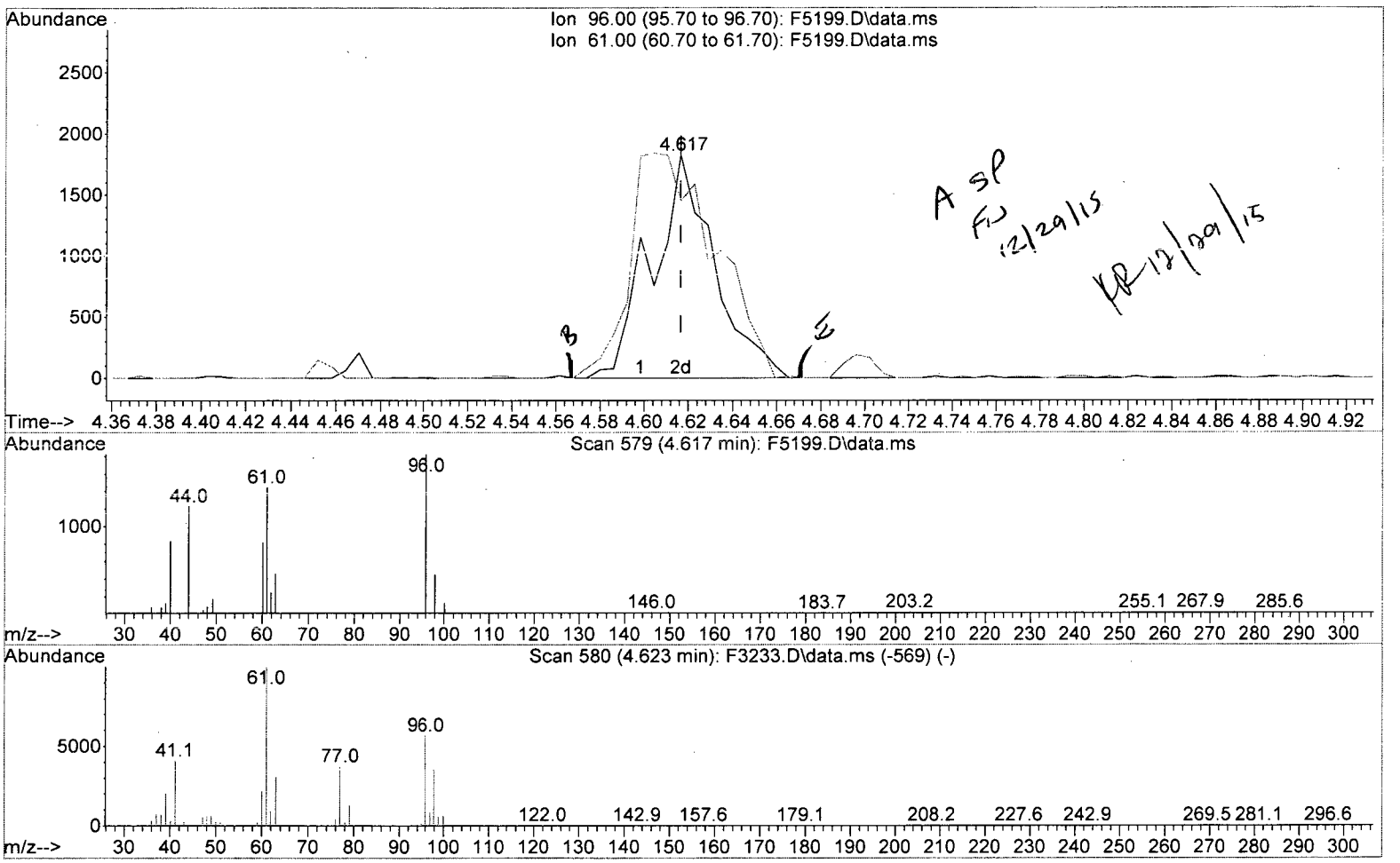
4.598min (-0.018) 0.14 ug/L

response 932

Ion	Exp%	Act%
96.00	100	100
61.00	177.00	157.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5199.D
Acq On : 21 Dec 2015 6:07 pm
Operator : F. Naegler
Sample : R1510962-001|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 21 18:21:23 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



A sp 12/29/15 KR 12/29/15

TIC: F5199.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.000) 0.53 ug/L m

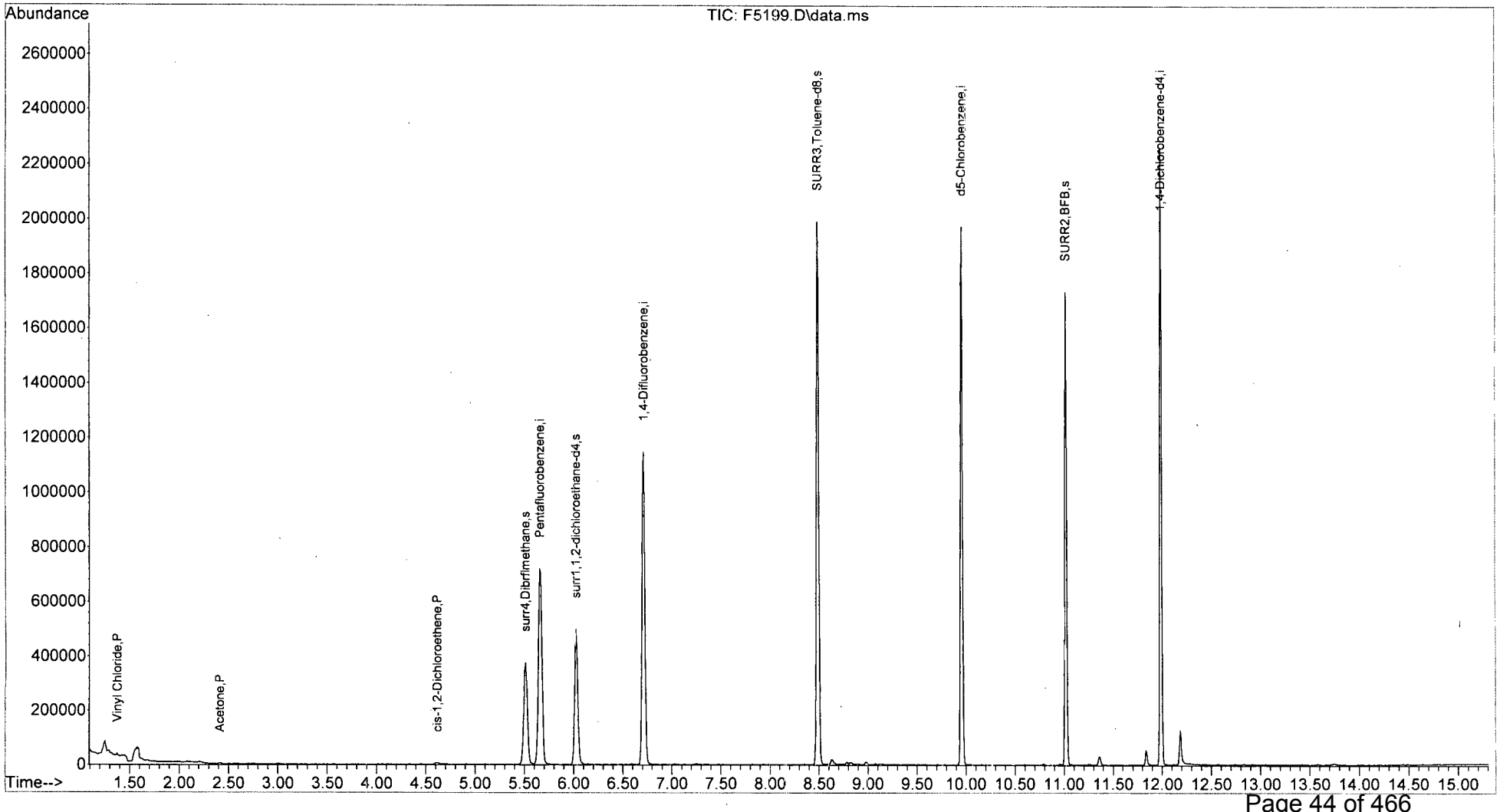
response 3574

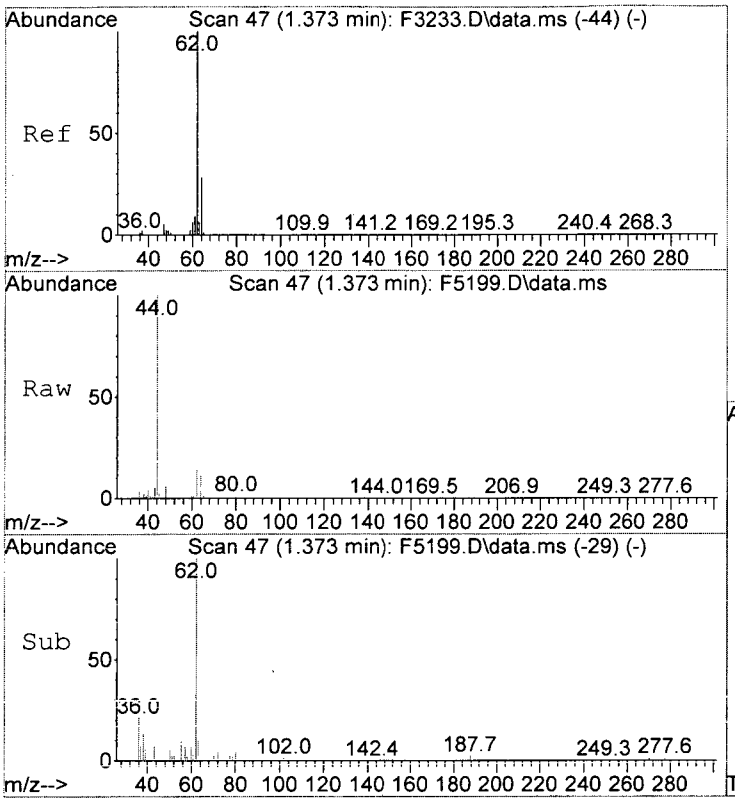
Ion	Exp%	Act%
96.00	100	100
61.00	177.00	79.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5199.D
Acq On : 21 Dec 2015 6:07 pm
Operator : F. Naegler
Sample : R1510962-001|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Dec 29 14:23:42 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

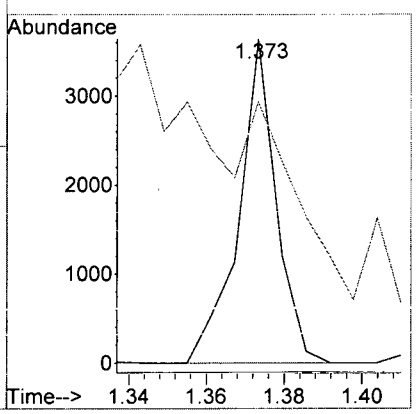


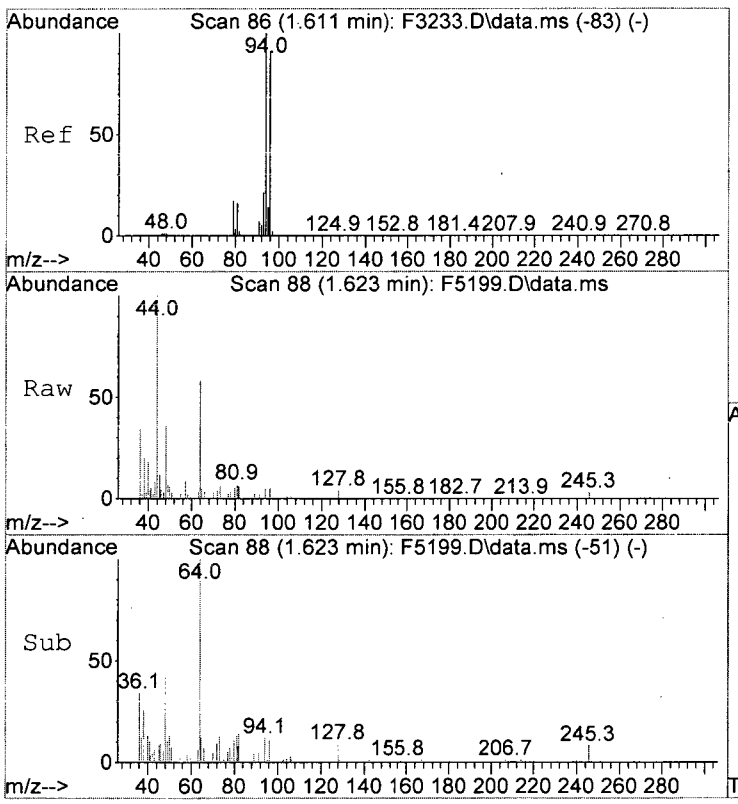


#4
Vinyl Chloride
Concen: 0.22 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5199.D
Acq: 21 Dec 2015 6:07 pm

Tgt Ion: 62 Resp: 2419

Ion	Ratio	Lower	Upper
62	100		
64	80.7	8.4	48.4#

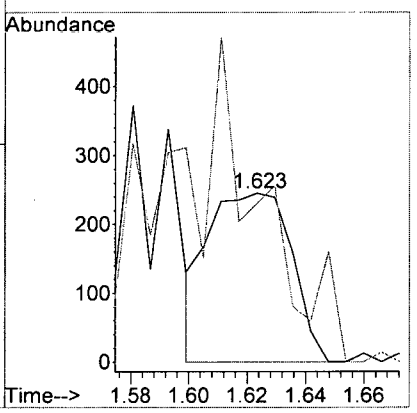


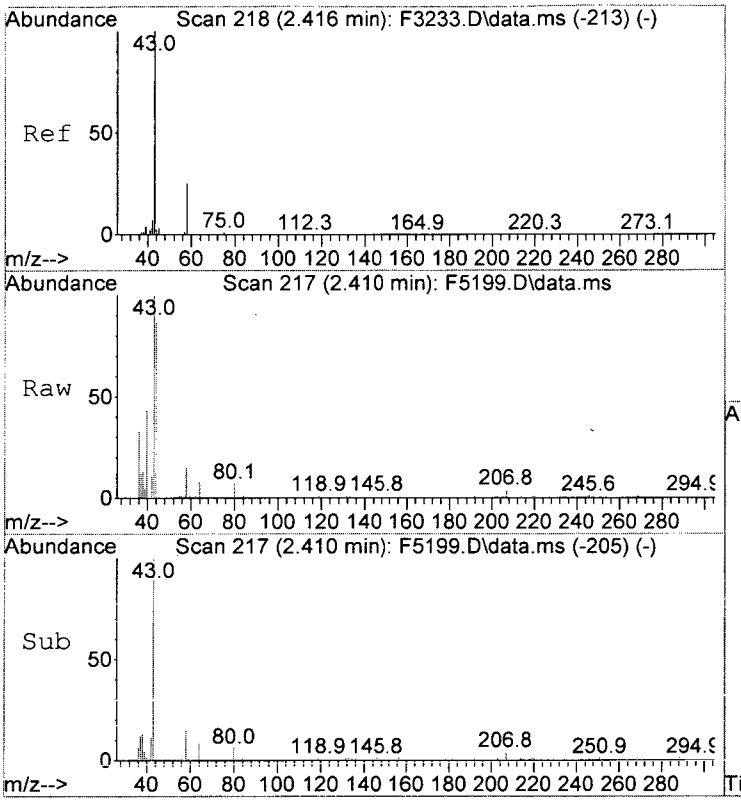


#5
Bromomethane
Concen: Below Cal
RT: 1.623 min Scan# 88
Delta R.T. 0.000 min
Lab File: F5199.D
Acq: 21 Dec 2015 6:07 pm

Tgt Ion: 94 Resp: 484

Ion	Ratio	Lower	Upper
94	100		
96	93.9	71.0	111.0

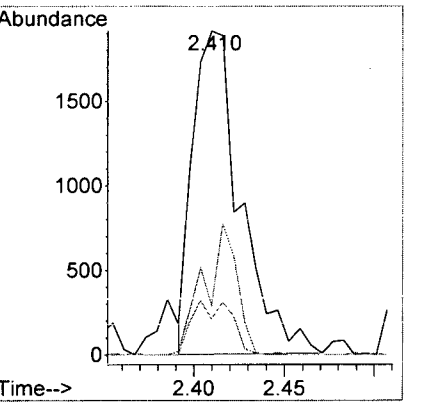


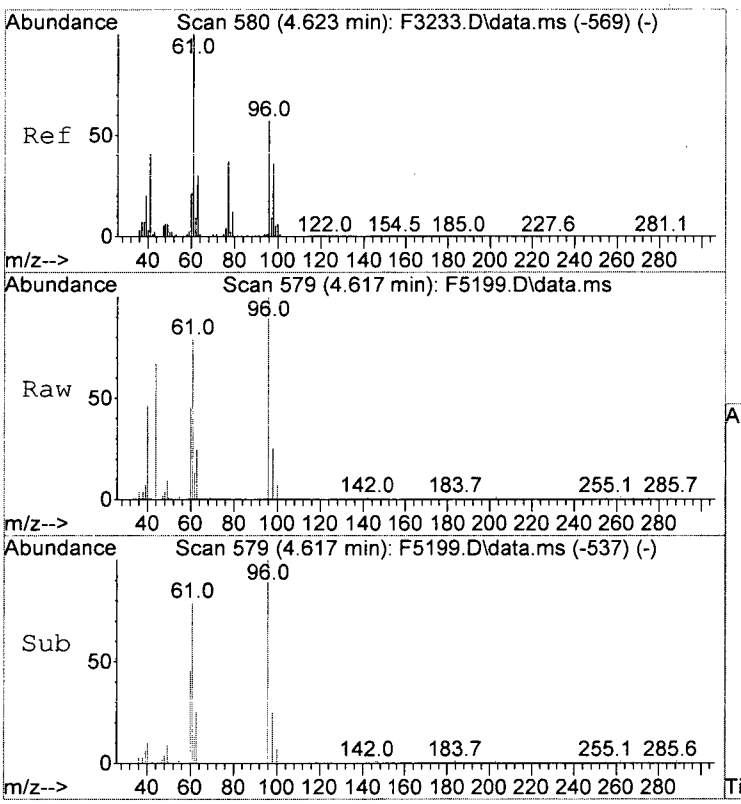


#15
Acetone
Concen: 0.58 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5199.D
Acq: 21 Dec 2015 6:07 pm

Tgt Ion: 43 Resp: 3516

Ion	Ratio	Lower	Upper
43	100		
58	15.2	4.3	44.3
42	11.1	0.0	27.3

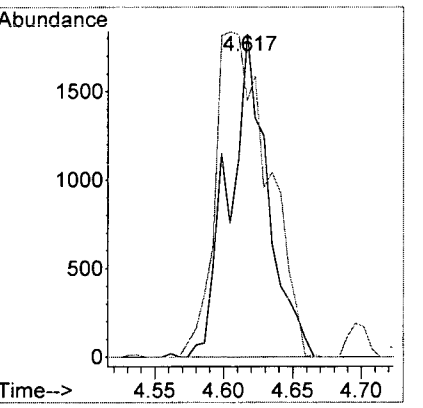




#33
cis-1,2-Dichloroethene
Concen: 0.53 ug/L m
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5199.D
Acq: 21 Dec 2015 6:07 pm

Tgt Ion: 96 Resp: 3574

Ion	Ratio	Lower	Upper
96	100		
61	79.3	157.0	197.0#



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 0945
Date Received: 12/16/15

Sample Name: MW-9R
Lab Code: R1510962-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:31		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:31		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:31		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:31		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,1-Dichloroethene (1,1-DCE)	**2.3**		1.0	0.57	1	NA	12/21/15 18:31		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:31		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:31		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:31		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:31		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:31		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:31		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:31		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:31		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:31		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:31		477252	
Benzene	**0.97**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:31		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:31		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:31		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:31		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:31		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:31		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:31		477252	
Cyclohexane	**15**		1.0	0.25	1	NA	12/21/15 18:31		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:31		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:31		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:31		477252	
Ethylbenzene	**0.23**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 0945
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-9R	**Units:**	µg/L
Lab Code:	R1510962-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.28**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:31		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:31		477252	
Methylcyclohexane	**13**		1.0	0.27	1	NA	12/21/15 18:31		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:31		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Trichloroethene (TCE)	**4.5**		1.0	0.22	1	NA	12/21/15 18:31		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	
Vinyl Chloride	**310**	D	10	3.2	10	NA	12/22/15 19:24		477582	
cis-1,2-Dichloroethene	**1200**	D	10	3.0	10	NA	12/22/15 19:24		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:31		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:31		477252	
o-Xylene	**0.23**	J	1.0	0.20	1	NA	12/21/15 18:31		477252	
trans-1,2-Dichloroethene	**2.9**		1.0	0.33	1	NA	12/21/15 18:31		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:31		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	12/21/15 18:31	
Dibromofluoromethane	97	89-119	12/21/15 18:31	
Toluene-d8	99	87-121	12/21/15 18:31	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5200.D
Acq On : 21 Dec 2015 6:31 pm
Operator : F. Naegler
Sample : R1510962-002|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 14:25:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	656427	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	969327	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	831397	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	431513	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	287077	48.28	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 96.56%				
46) surr1,1,2-dichloroetha...	6.025	65	347744	43.48	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 86.96%				
64) SURR3,Toluene-d8	8.488	98	1096740	49.66	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 99.32%				
69) SURR2,BFB	11.018	95	410398	46.53	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 93.06%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	2931377	267.42	ug/L		93 E
5) Bromomethane	1.581	94	384	Below Cal		#	38
13) 1,1-Diclethene	2.361	96	12168	2.33	ug/L		93
26) trans-1,2-Dichloroethene	3.166	96	17165	2.90	ug/L	#	77
33) cis-1,2-Dichloroethene	4.617	96	7548803	1136.24	ug/L	#	76 E
42) Cyclohexane	5.586	41	155611	15.11	ug/L		87
47) Benzene	6.104	78	25183	0.97	ug/L		97
51) n-Heptane	6.592	43	3079	0.22	ug/L		94
53) Trichloroethene	7.025	130	30039	4.52	ug/L		93
54) Methylcyclohexane	7.263	55	155879	13.48	ug/L		94
81) Ethylbenzene	10.103	106	2011	0.23	ug/L		96
83) o-Xylene	10.567	106	2638	0.23	ug/L	#	39
87) Isopropylbenzene	10.896	105	8285	0.28	ug/L		96

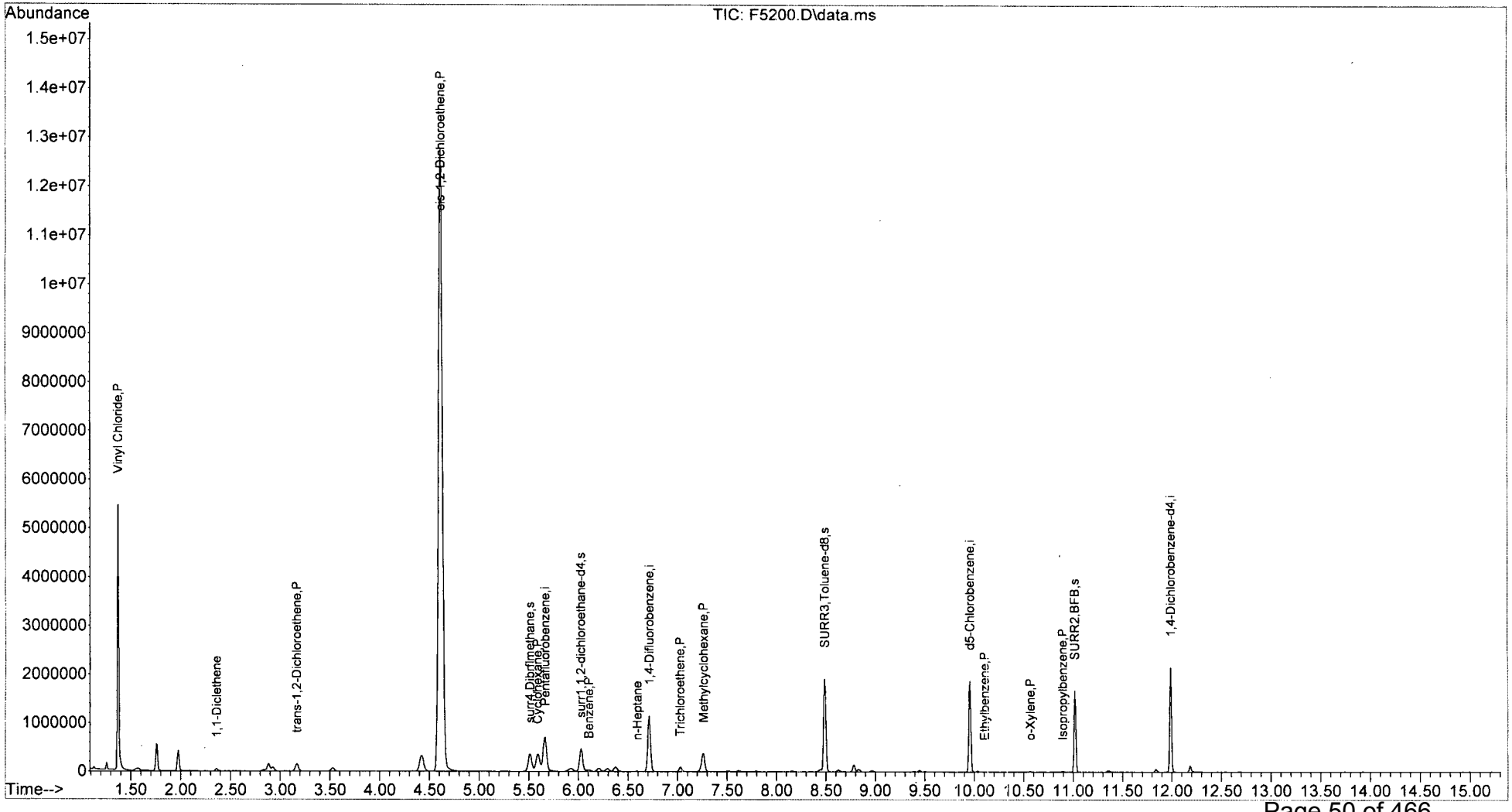
(#) = qualifier out of range (m) = manual integration (+) = signals summed

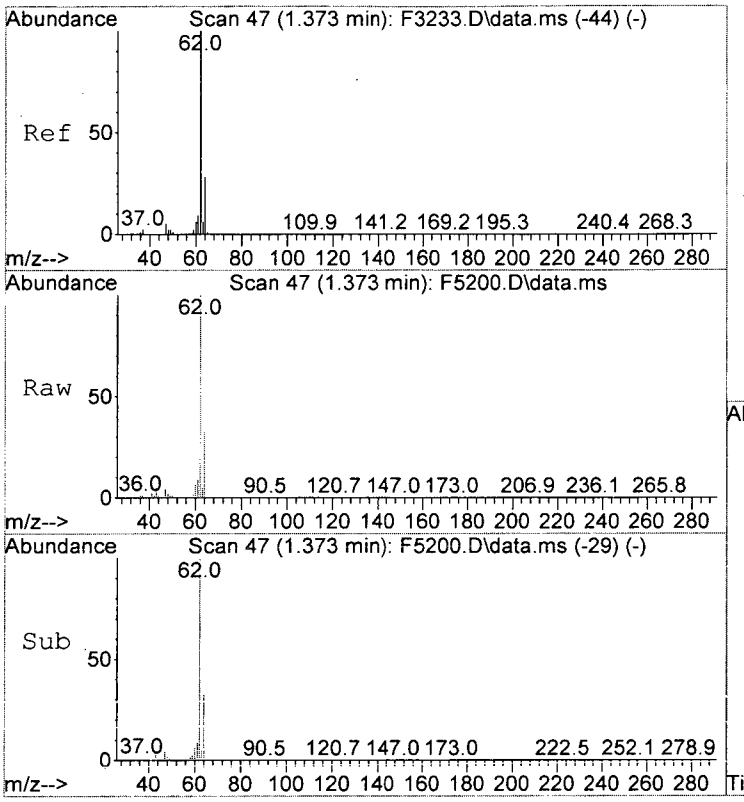
Report + Bpt 1/10

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5200.D
Acq On : 21 Dec 2015 6:31 pm
Operator : F. Naegler
Sample : R1510962-002|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Dec 29 14:25:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

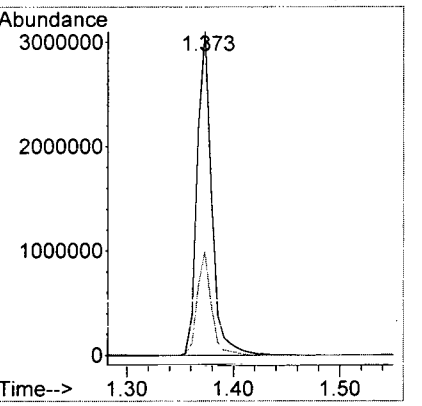


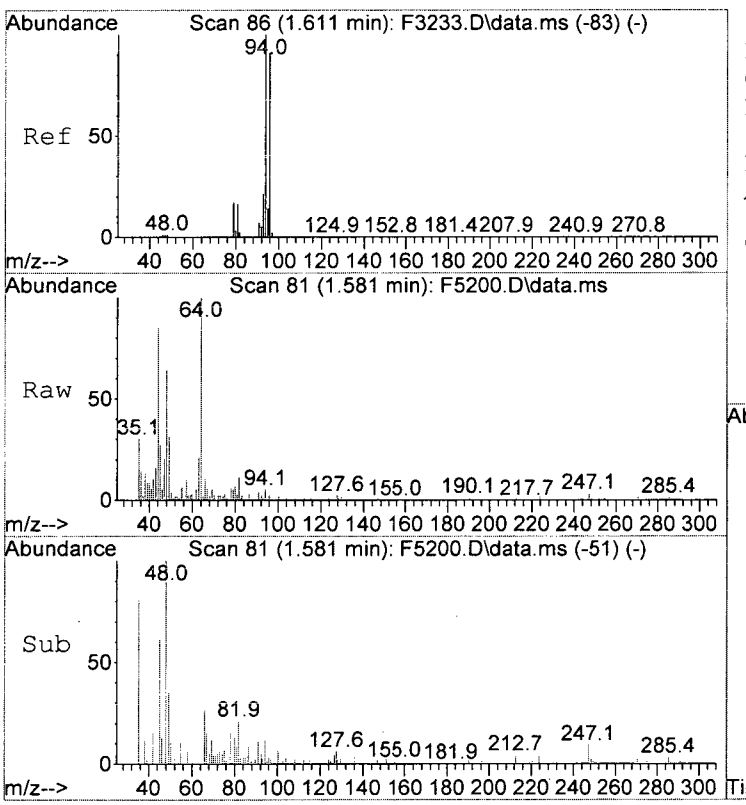


#4
Vinyl Chloride
Concen: 267.42 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 62 Resp: 2931377

Ion	Ratio	Lower	Upper
62	100		
64	32.0	8.4	48.4

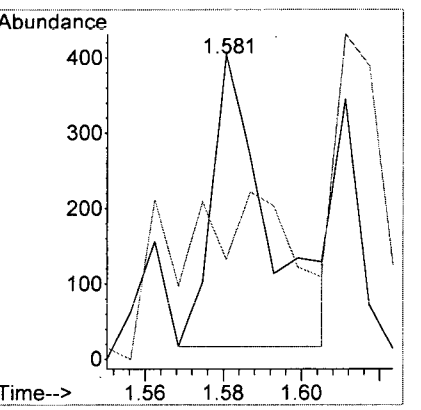


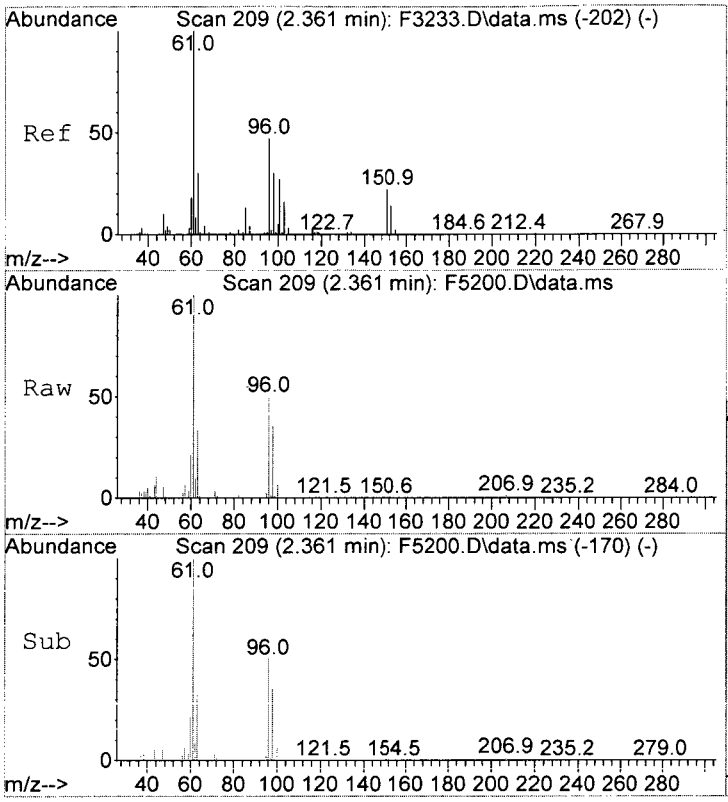


#5
Bromomethane
Concen: Below Cal
RT: 1.581 min Scan# 81
Delta R.T. -0.042 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 94 Resp: 384

Ion	Ratio	Lower	Upper
94	100		
96	32.7	71.0	111.0#

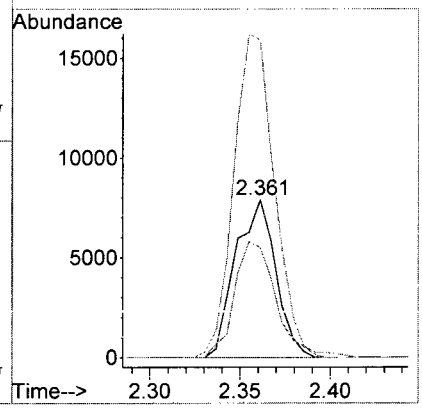


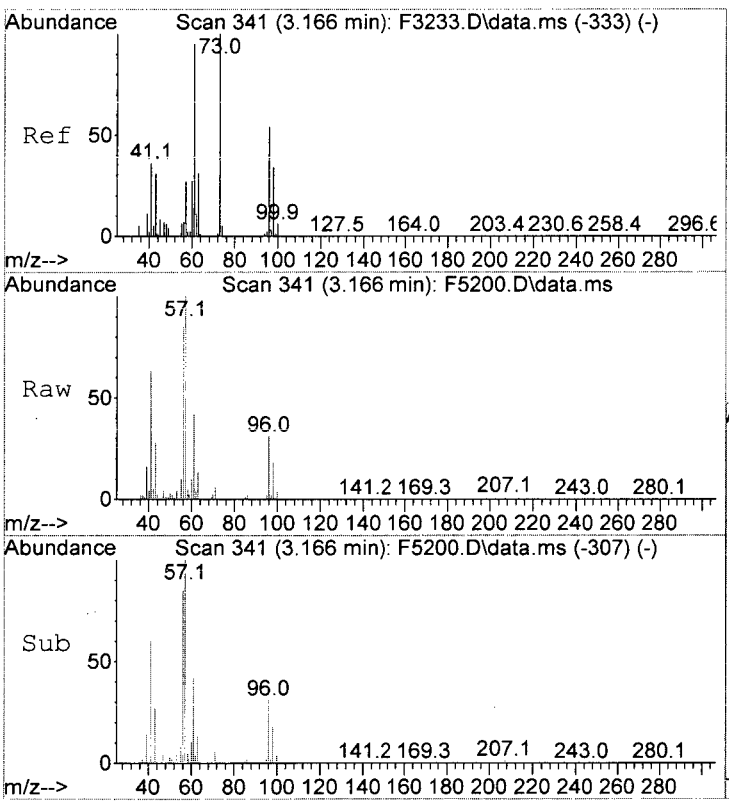


#13
1,1-Diclethene
Concen: 2.33 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 96 Resp: 12168

Ion	Ratio	Lower	Upper
96	100		
98	69.9	44.2	84.2
61	201.5	192.7	232.7

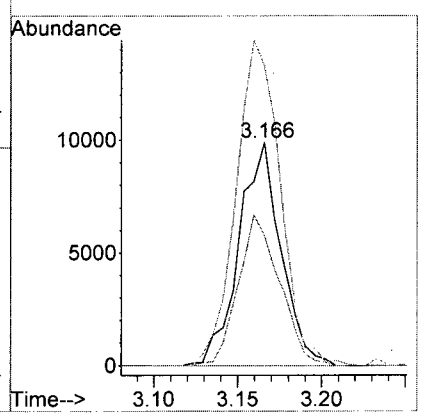


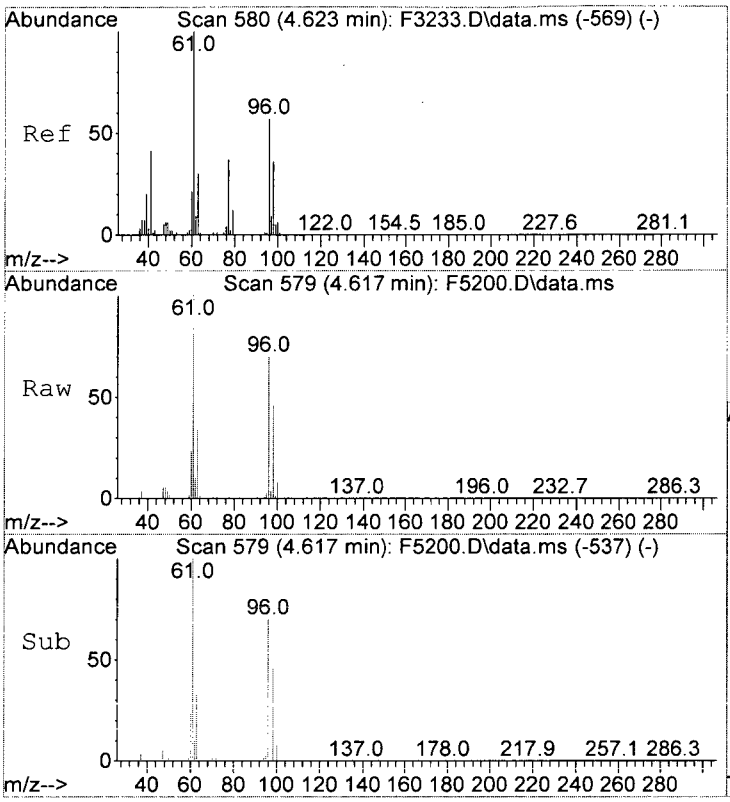


#26
trans-1,2-Dichloroethene
Concen: 2.90 ug/L
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 96 Resp: 17165

Ion	Ratio	Lower	Upper
96	100		
98	58.6	42.3	82.3
61	134.4	155.3	195.3#

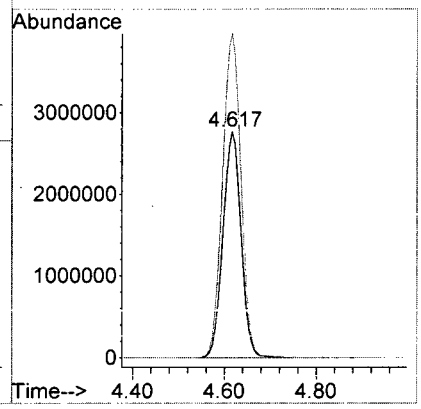


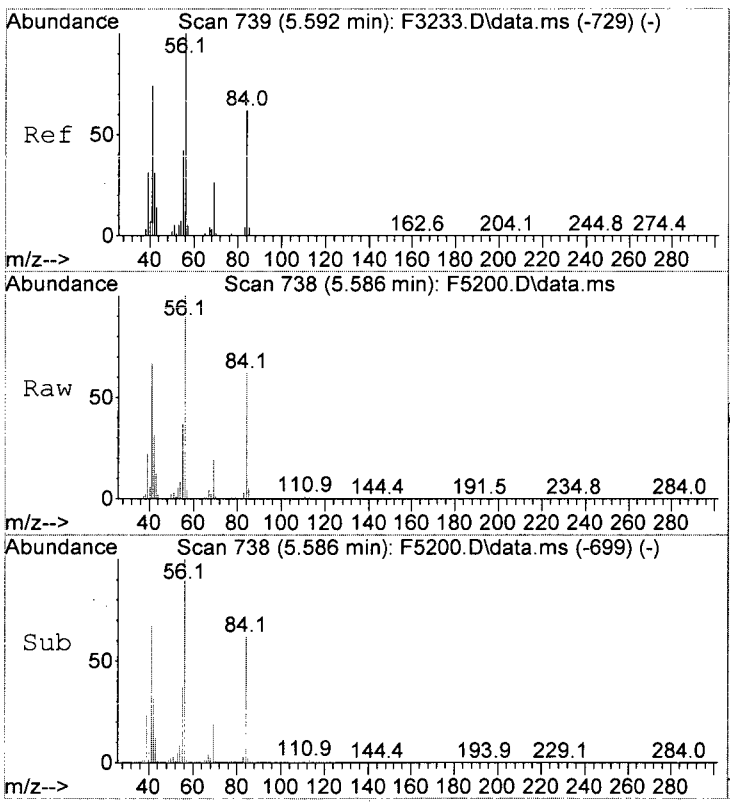


#33
cis-1,2-Dichloroethene
Concen: 1136.24 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 96 Resp: 7548803

Ion	Ratio	Lower	Upper
96	100		
61	143.3	157.0	197.0#

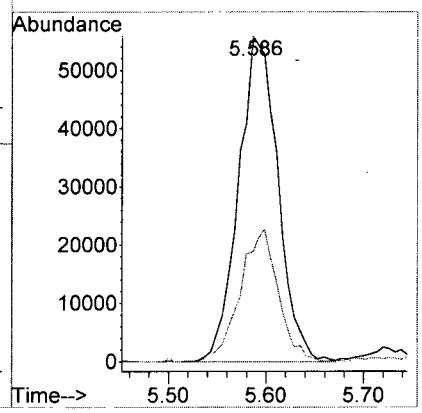


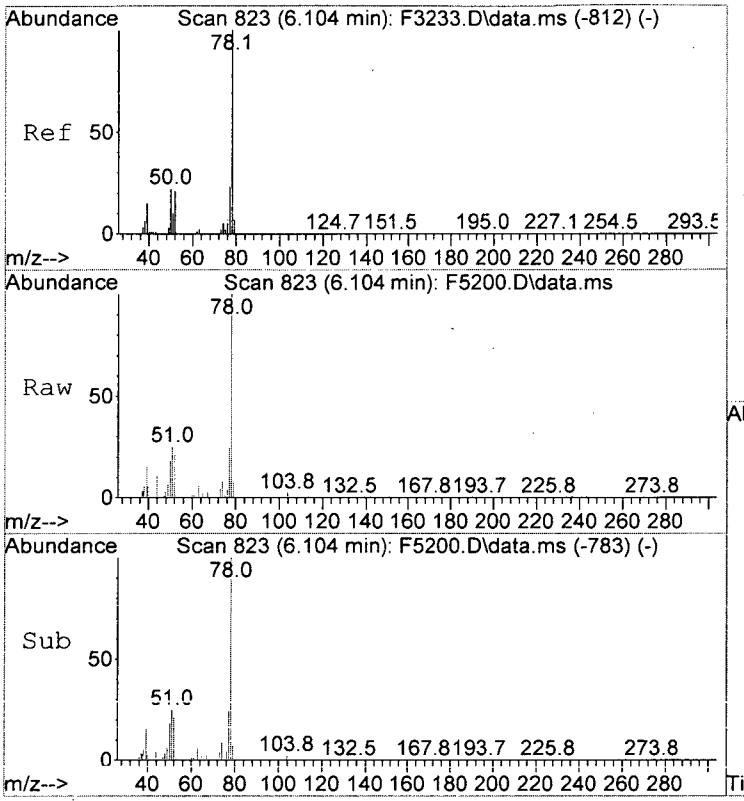


#42
Cyclohexane
Concen: 15.11 ug/L
RT: 5.586 min Scan# 738
Delta R.T. -0.012 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 41 Resp: 155611

Ion	Ratio	Lower	Upper
41	100		
39	33.7	22.1	62.1

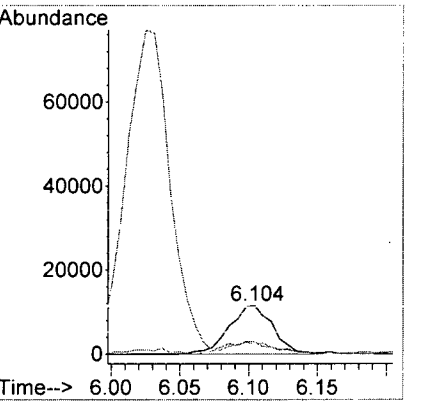


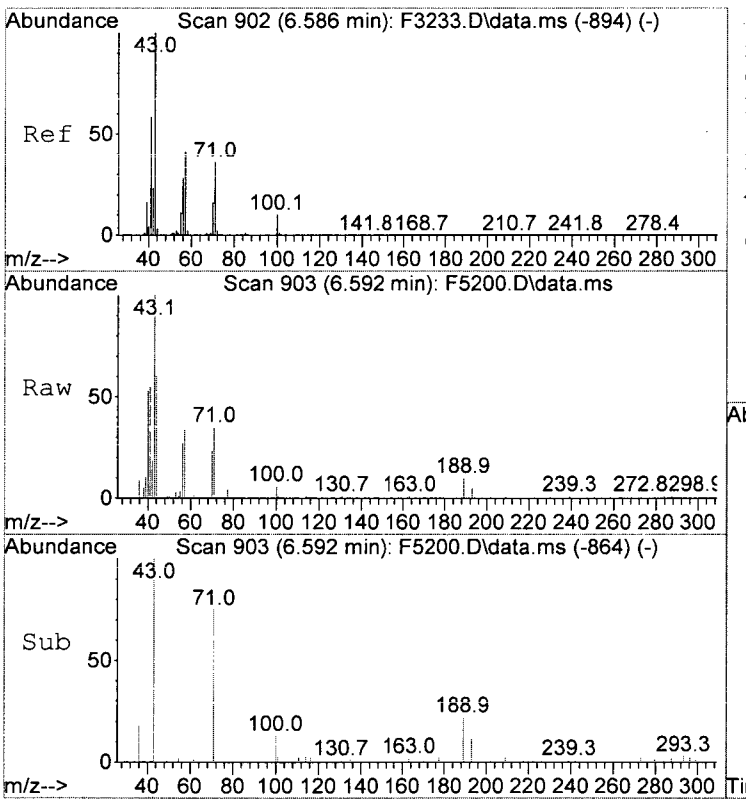


#47
Benzene
Concen: 0.97 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 78 Resp: 25183

Ion	Ratio	Lower	Upper
78	100		
51	25.2	3.0	43.0
52	22.4	1.6	41.6

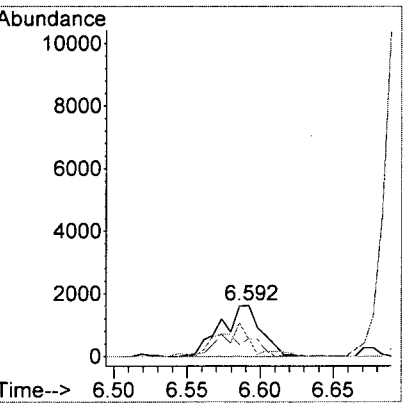


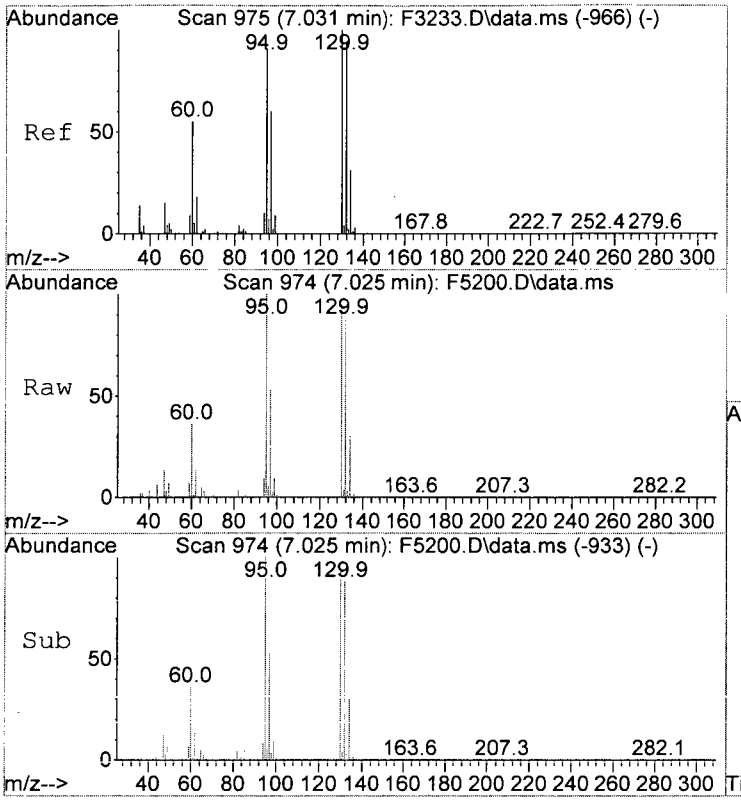


#51
n-Heptane
Concen: 0.22 ug/L
RT: 6.592 min Scan# 903
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 43 Resp: 3079

Ion	Ratio	Lower	Upper
43	100		
57	33.9	21.0	61.0
71	35.4	15.4	55.4

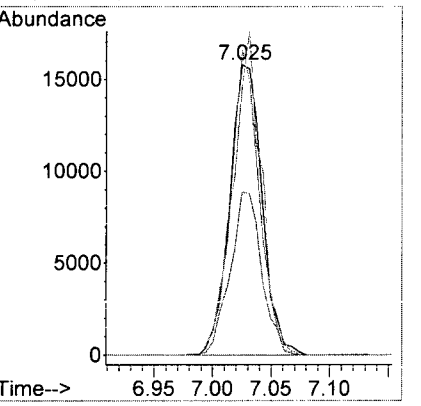


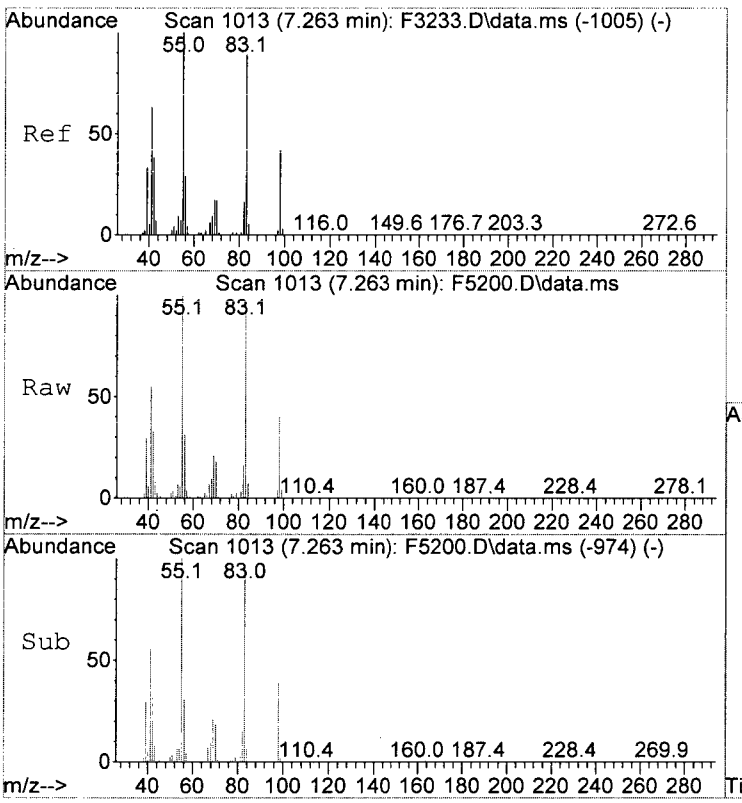


#53
Trichloroethene
Concen: 4.52 ug/L
RT: 7.025 min Scan# 974
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion:130 Resp: 30039

Ion	Ratio	Lower	Upper
130	100		
132	92.7	74.1	114.1
95	104.9	70.9	110.9
97	56.1	39.7	79.7

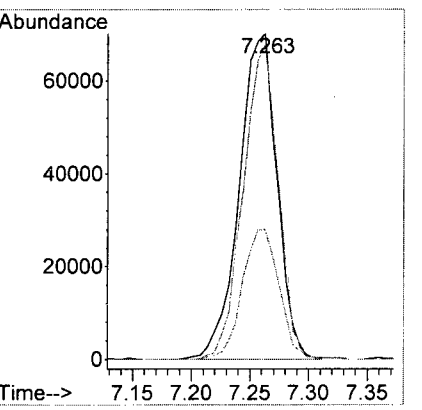


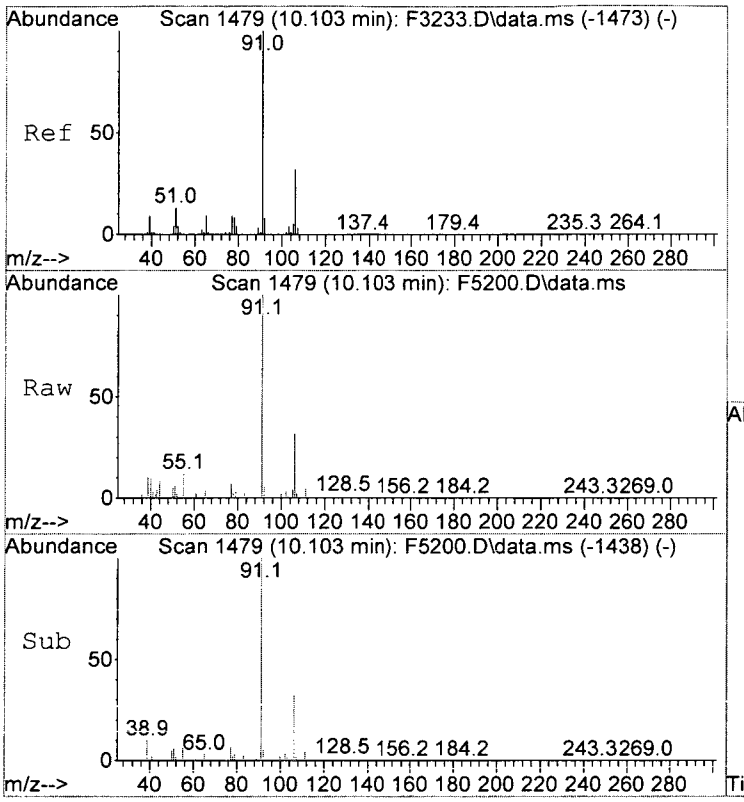


#54
Methylcyclohexane
Concen: 13.48 ug/L
RT: 7.263 min Scan# 1013
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion: 55 Resp: 155879

Ion	Ratio	Lower	Upper
55	100		
83	96.5	69.2	109.2
98	39.9	22.1	62.1

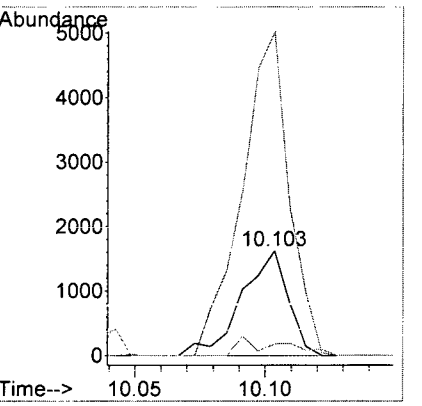


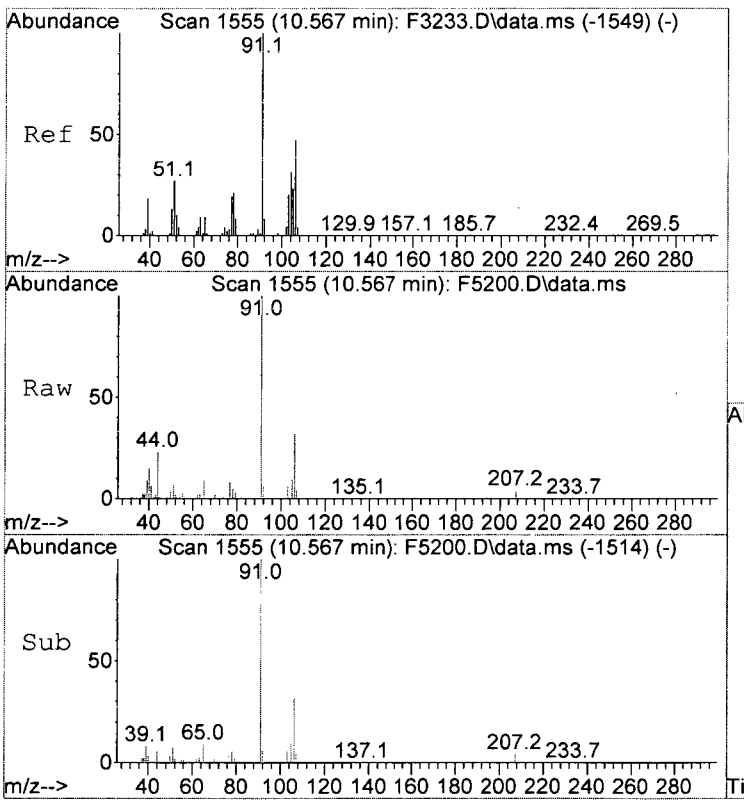


#81
Ethylbenzene
Concen: 0.23 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion:106 Resp: 2011

Ion	Ratio	Lower	Upper
106	100		
91	310.1	292.1	332.1
65	10.7	9.7	49.7

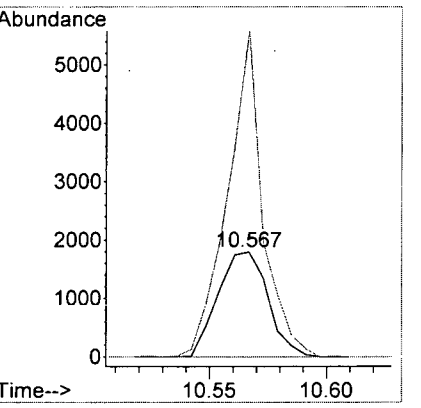


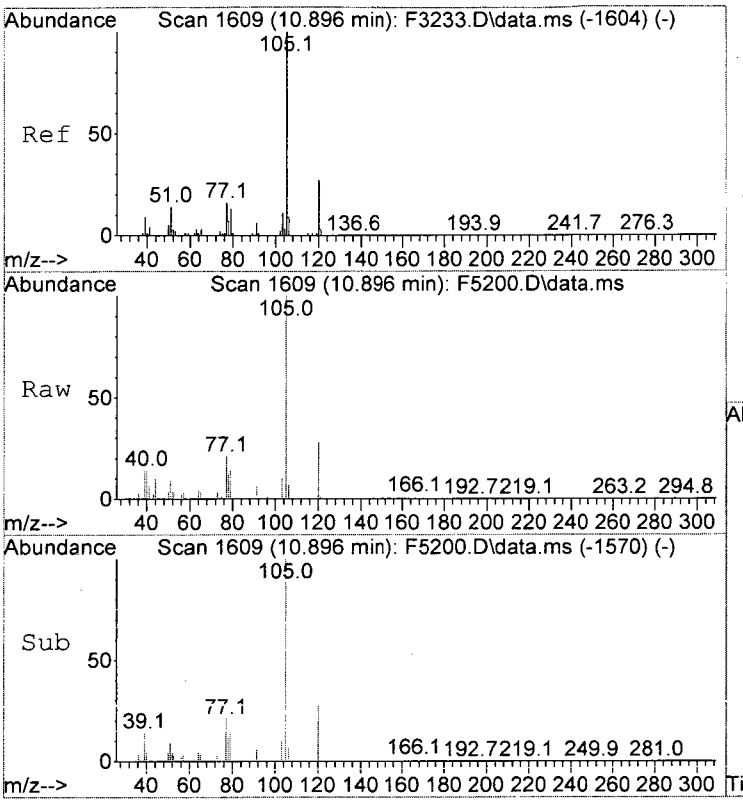


#83
o-Xylene
Concen: 0.23 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion:106 Resp: 2638

Ion	Ratio	Lower	Upper
106	100		
91	311.2	194.2	234.2#

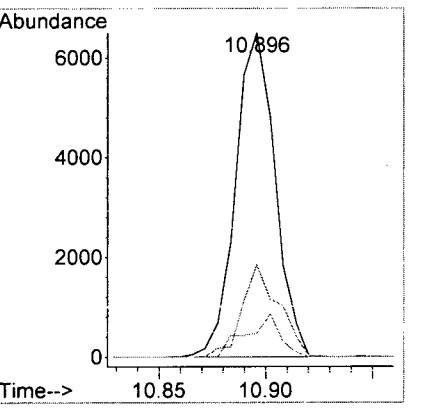




#87
Isopropylbenzene
Concen: 0.28 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F5200.D
Acq: 21 Dec 2015 6:31 pm

Tgt Ion:105 Resp: 8285

Ion	Ratio	Lower	Upper
105	100		
120	28.5	6.5	46.5
106	7.3	0.0	29.0



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 16:00:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

DL

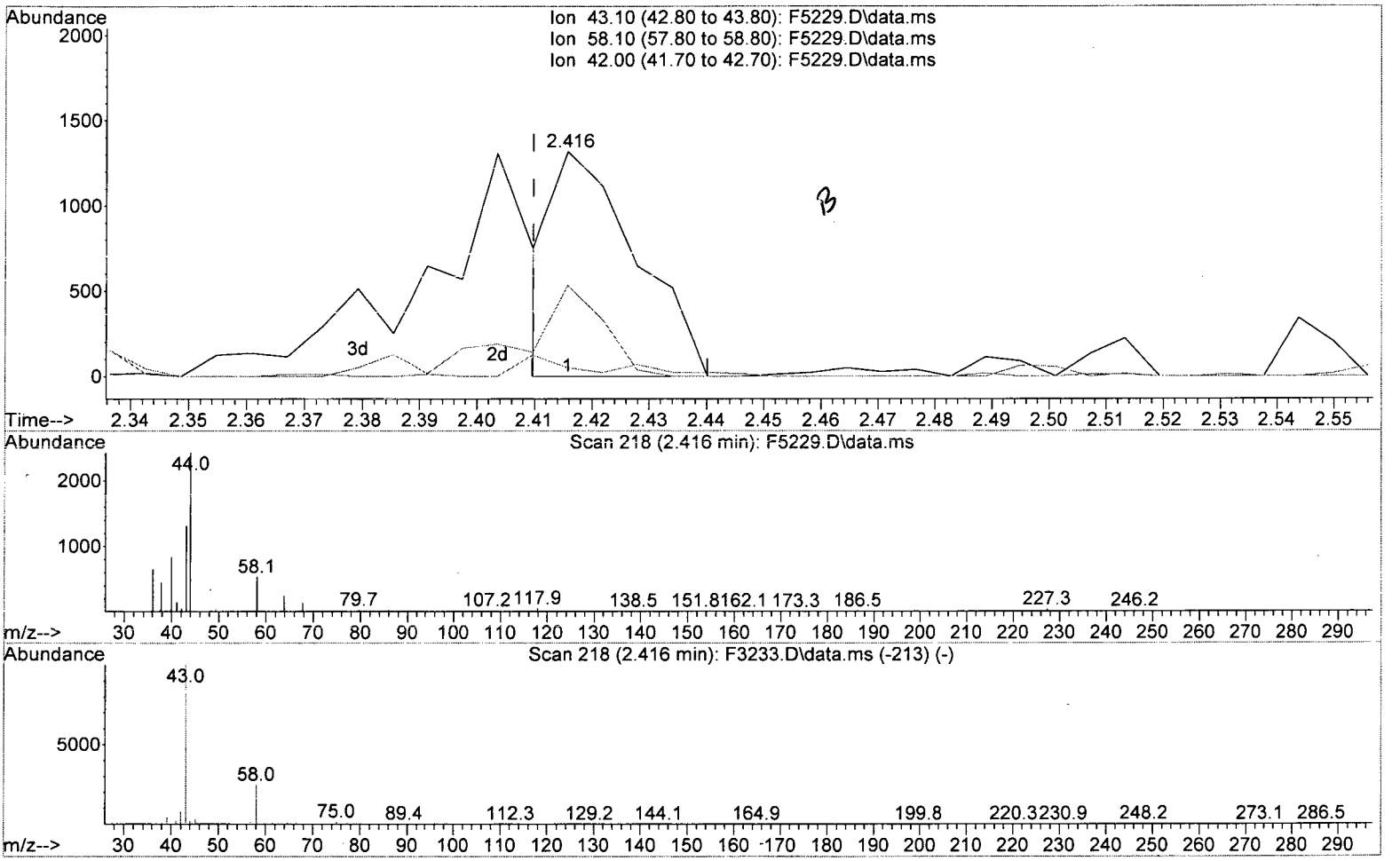
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	582952	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	882763	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	764256	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	388728	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	282398	52.15	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.30%				
46) surr1,1,2-dichloroetha...	6.025	65	373713	51.31	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.62%				
64) SURR3,Toluene-d8	8.488	98	1038092	51.61	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.22%				
69) SURR2,BFB	11.018	95	394919	49.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.34%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	300338	30.85	ug/L		94
5) Bromomethane	1.575	94	323	Below Cal		#	67
13) 1,1-Diclethene	2.361	96	1790	0.39	ug/L	#	41
15) Acetone	2.416	43	2513m	0.48	ug/L		
26) trans-1,2-Dichloroethene	3.166	96	1967m	0.37	ug/L		
33) cis-1,2-Dichloroethene	4.617	96	679336	115.14	ug/L		91
42) Cyclohexane	5.598	41	15825	1.69	ug/L		98
53) Trichloroethene	7.037	130	2398	0.40	ug/L		88
54) Methylcyclohexane	7.262	55	16822	1.60	ug/L	#	75

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

FD 12/29/15

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 19:39:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5229.D\data.ms

(15) Acetone (P)

2.416min (+0.006) 0.25 ug/L

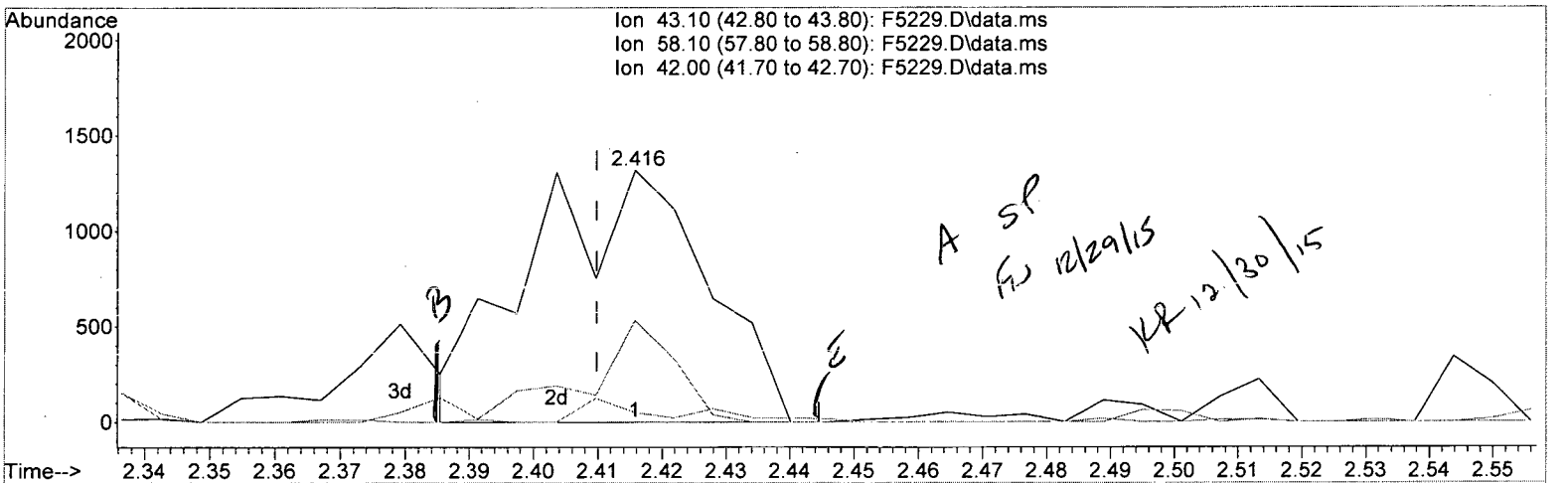
response 1316

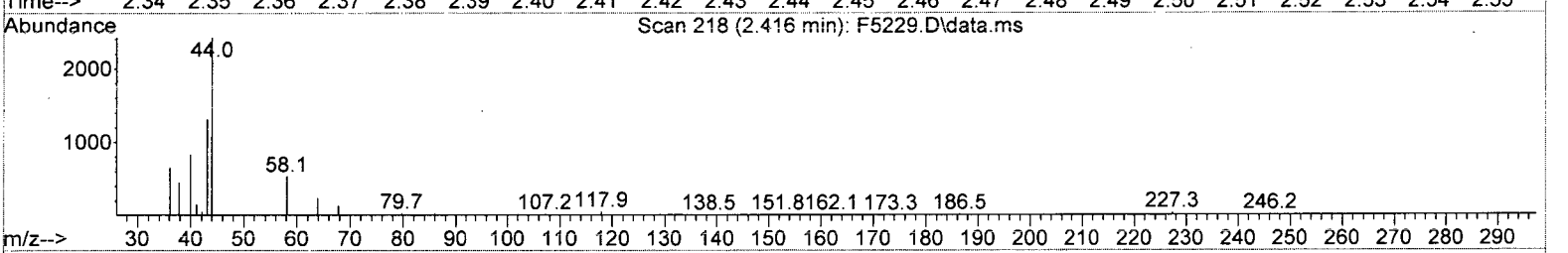
Ion	Exp%	Act%
43.10	100	100
58.10	24.30	40.47
42.00	7.30	3.80
0.00	0.00	0.00

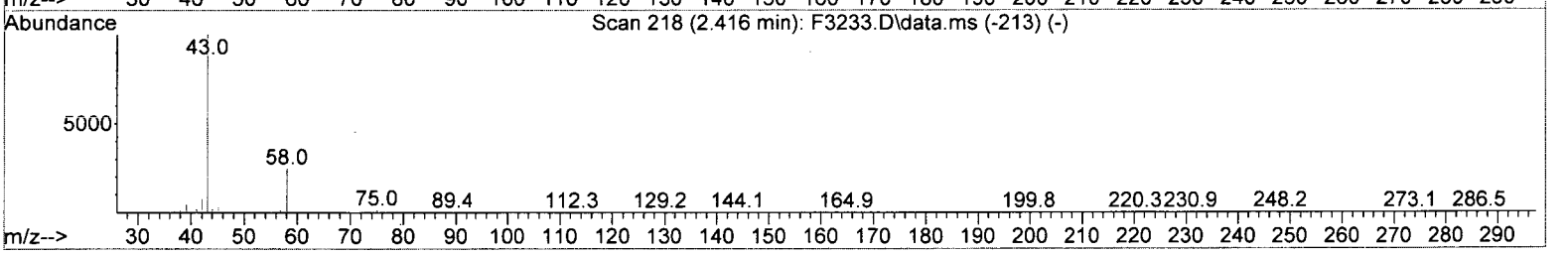
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 19:39:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5229.D\data.ms

(15) Acetone (P)

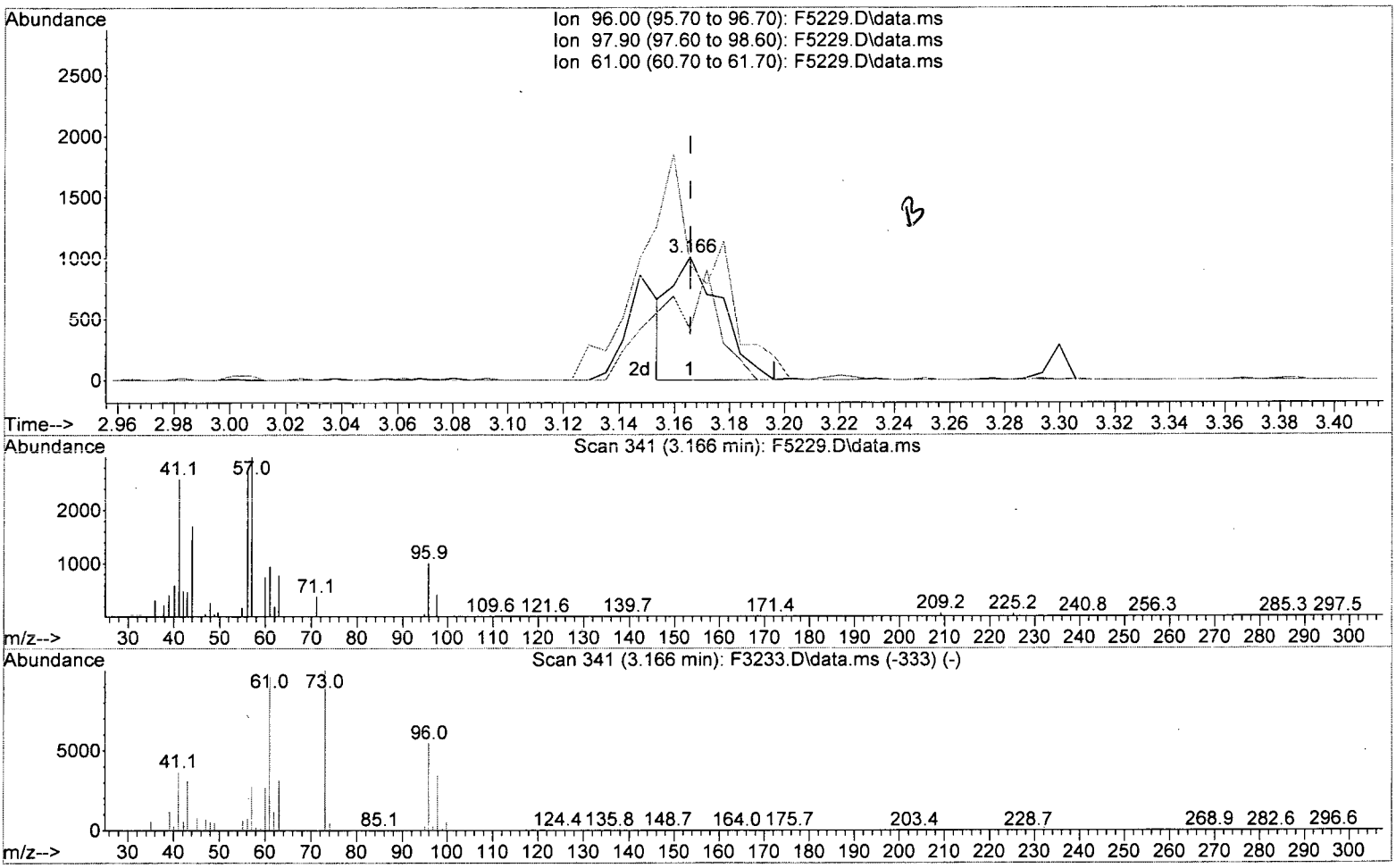
2.416min (+0.006) 0.48 ug/L m

response 2513

Ion	Exp%	Act%
43.10	100	100
58.10	24.30	40.47
42.00	7.30	3.80
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 19:39:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5229.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.166min (-0.000) 0.24 ug/L

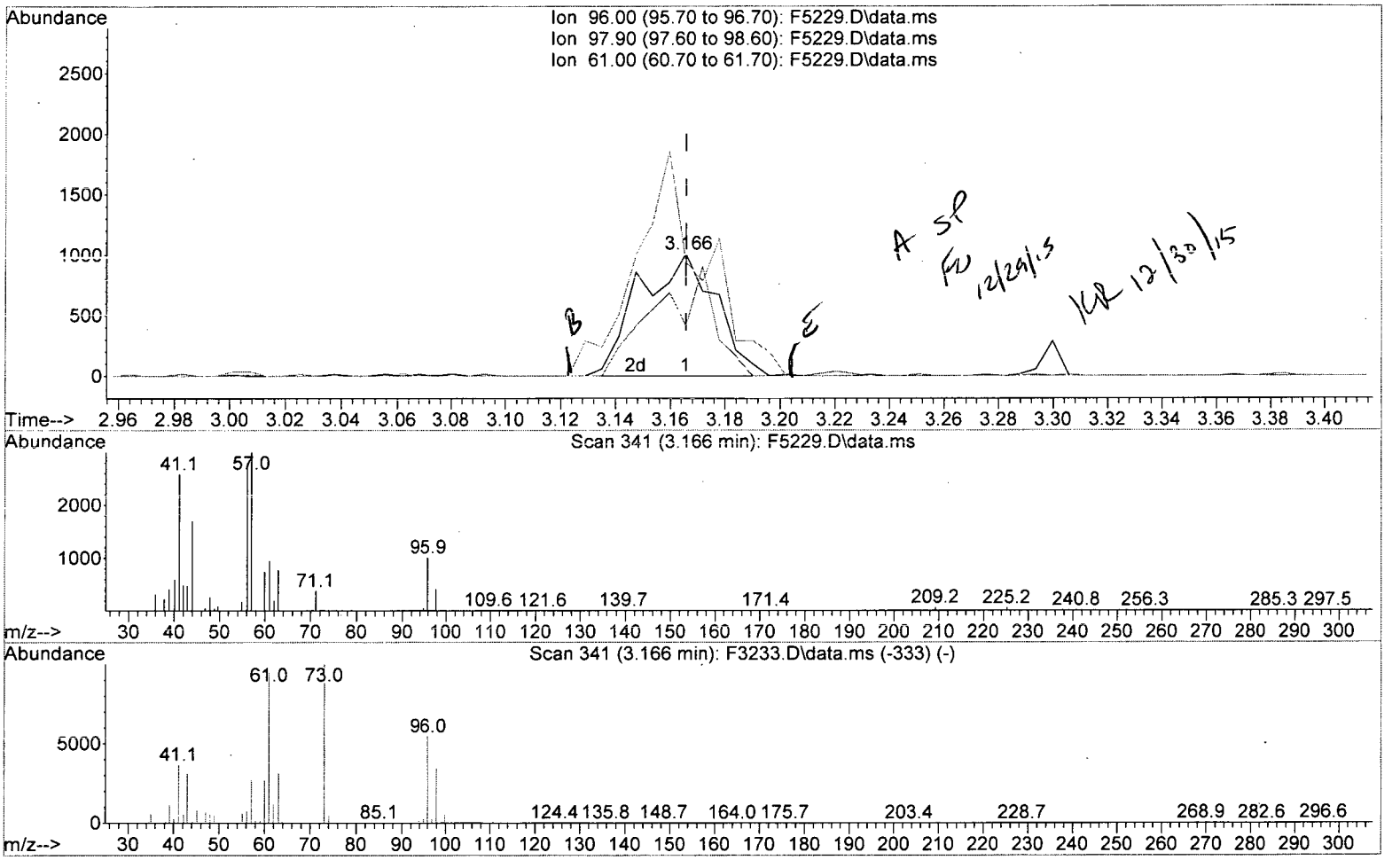
response 1267

Ion	Exp%	Act%
96.00	100	100
97.90	62.30	41.11#
61.00	175.30	93.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 22 19:39:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5229.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.166min (-0.000) 0.37 ug/L m

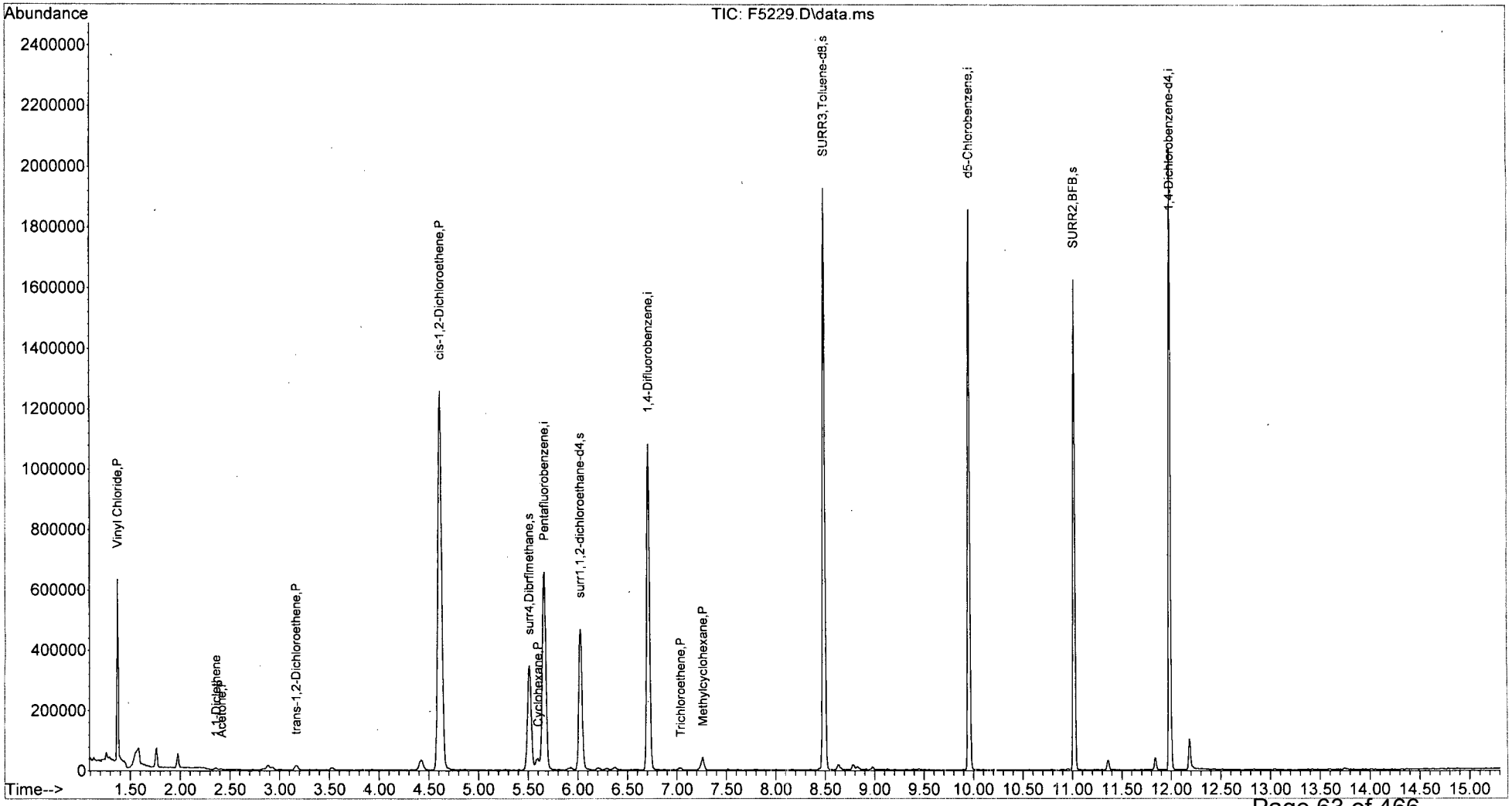
response 1967

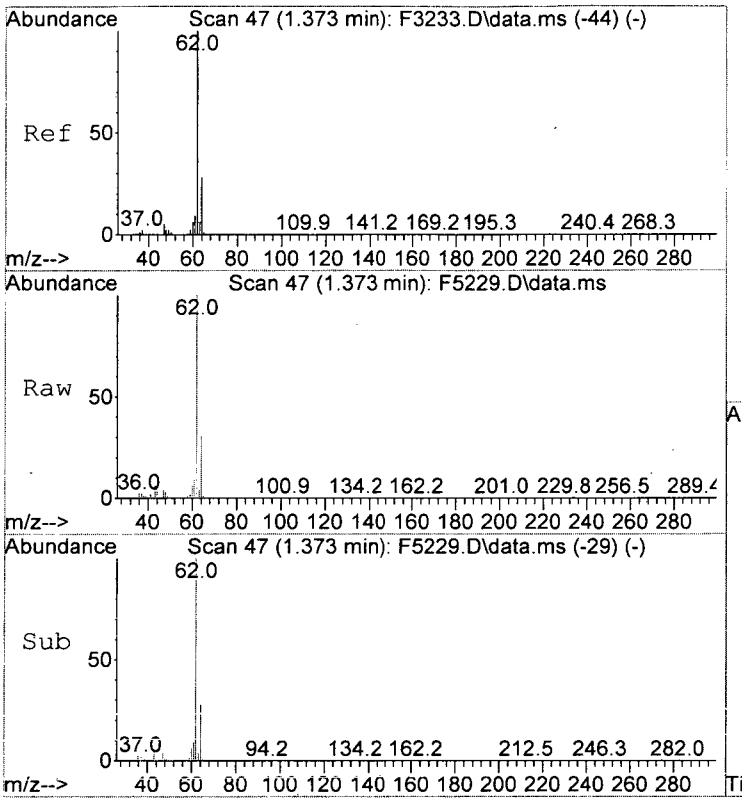
Ion	Exp%	Act%
96.00	100	100
97.90	62.30	41.11#
61.00	175.30	93.55#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5229.D
Acq On : 22 Dec 2015 7:24 pm
Operator : F. Naegler
Sample : R1510962-002|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 29 16:00:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

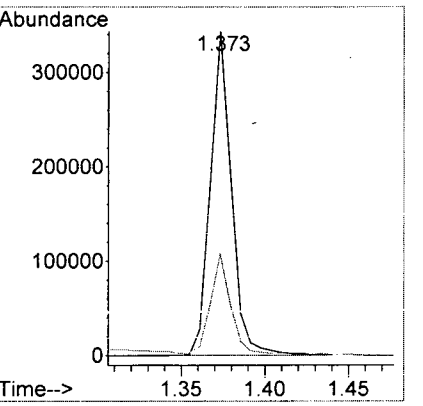


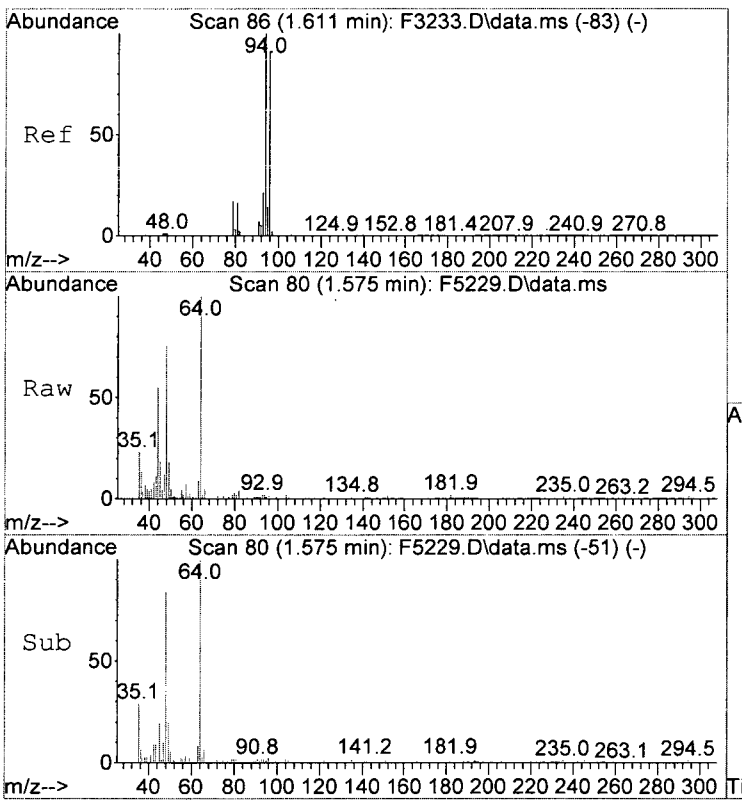


#4
Vinyl Chloride
Concen: 30.85 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 62 Resp: 300338

Ion	Ratio	Lower	Upper
62	100		
64	31.4	8.4	48.4

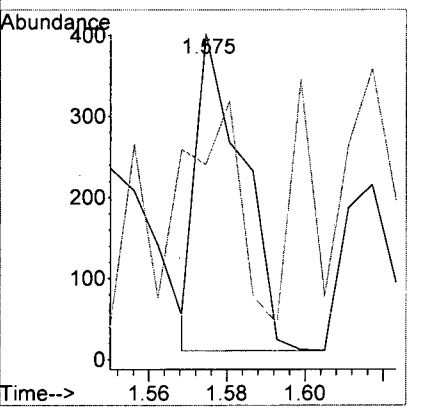


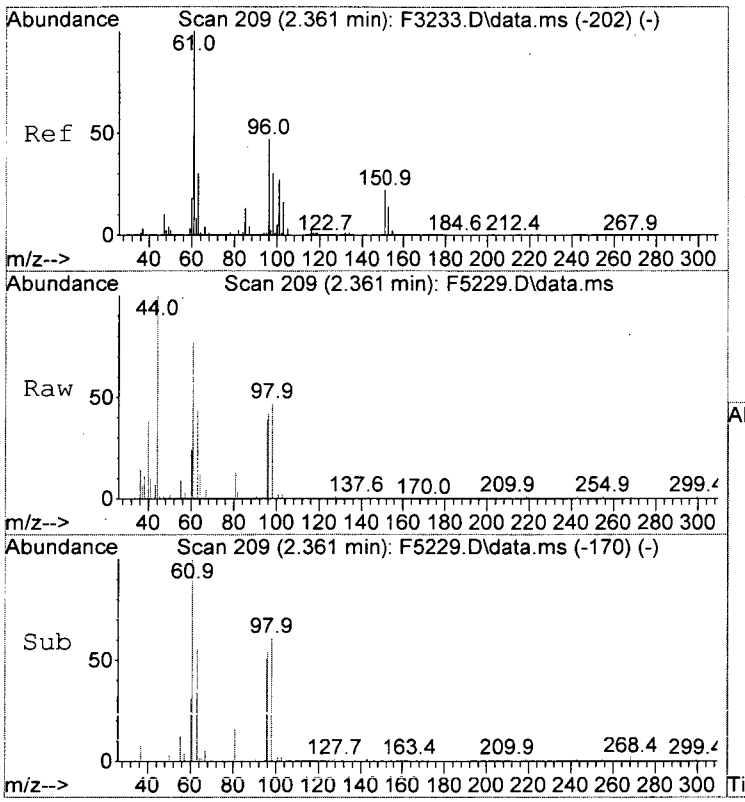


#5
Bromomethane
Concen: Below Cal
RT: 1.575 min Scan# 80
Delta R.T. -0.048 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 94 Resp: 323

Ion	Ratio	Lower	Upper
94	100		
96	59.9	71.0	111.0#

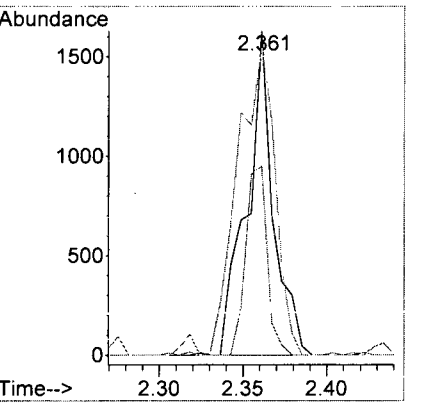


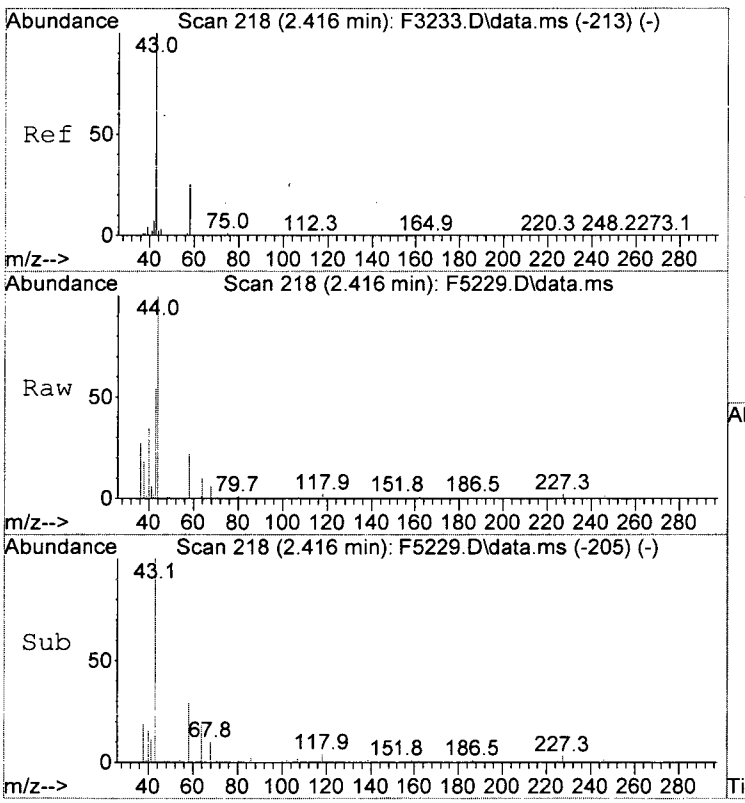


#13
1,1-Diclethene
Concen: 0.39 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 96 Resp: 1790

Ion	Ratio	Lower	Upper
96	100		
98	58.4	44.2	84.2
61	95.4	192.7	232.7#

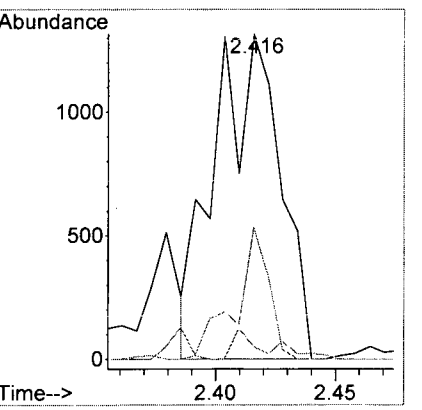


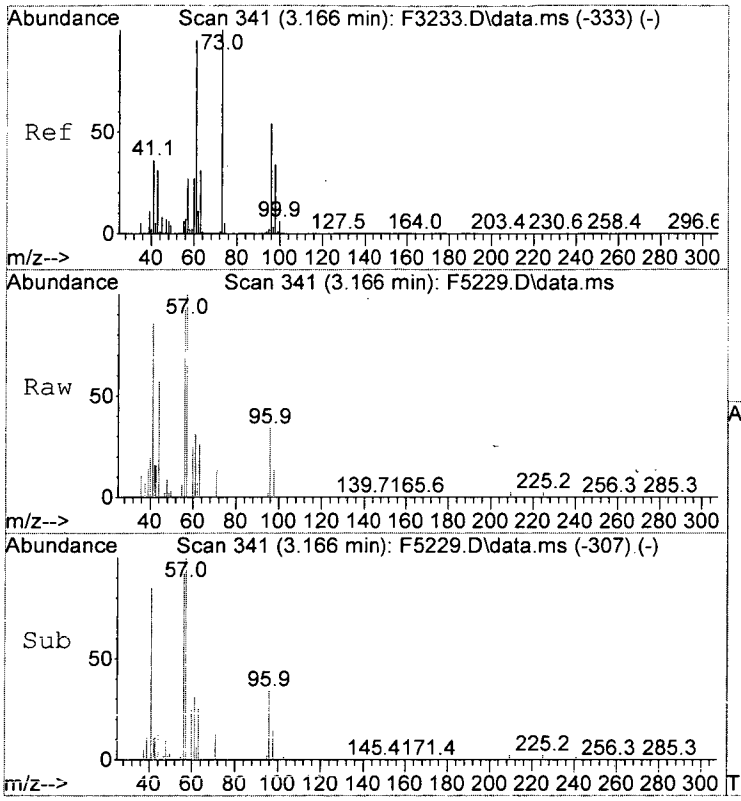


#15
Acetone
Concen: 0.48 ug/L m
RT: 2.416 min Scan# 218
Delta R.T. 0.006 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 43 Resp: 2513

Ion	Ratio	Lower	Upper
43	100		
58	40.5	4.3	44.3
42	3.8	0.0	27.3

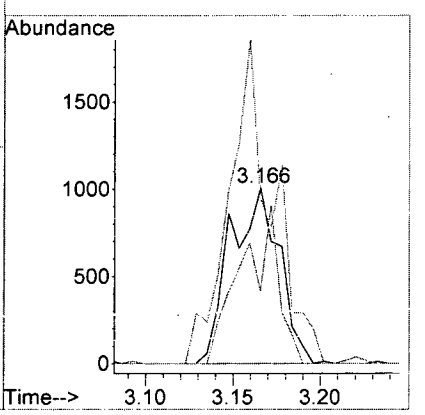


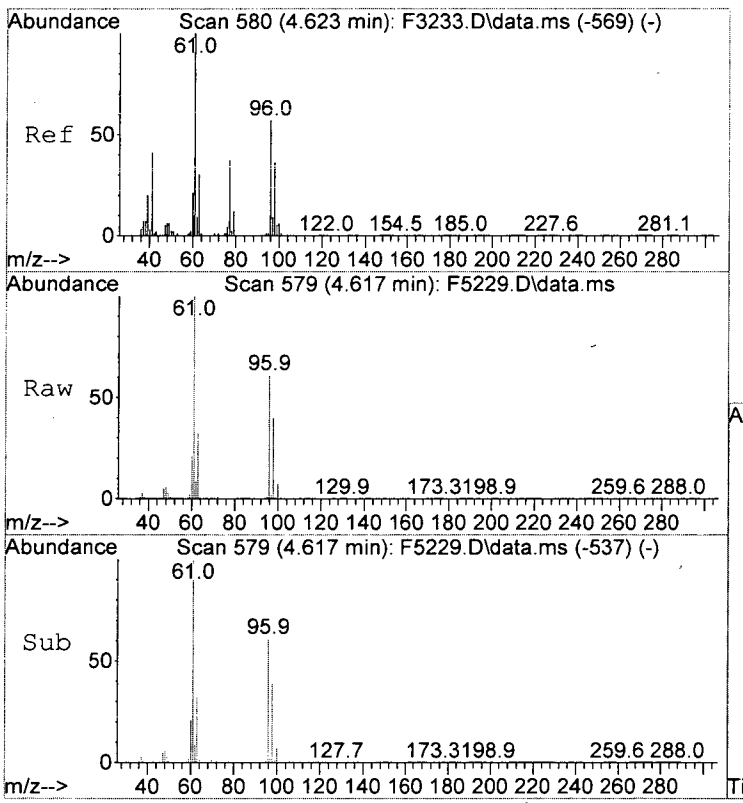


#26
trans-1,2-Dichloroethene
Concen: 0.37 ug/L m
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 96 Resp: 1967

Ion	Ratio	Lower	Upper
96	100		
98	41.1	42.3	82.3#
61	93.5	155.3	195.3#

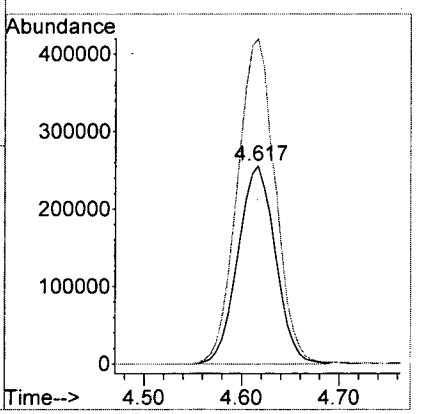


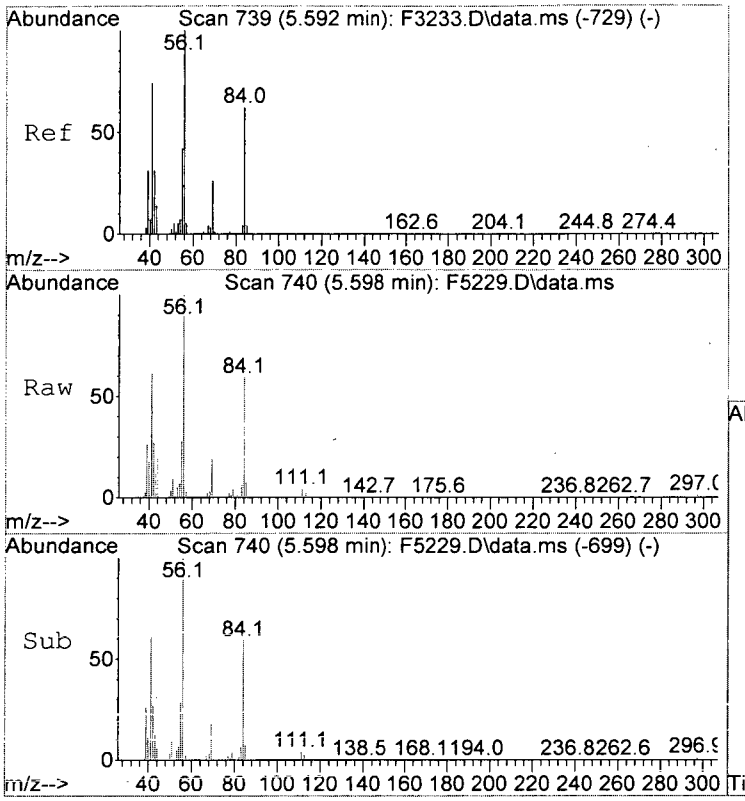


#33
cis-1,2-Dichloroethene
Concen: 115.14 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 96 Resp: 679336

Ion	Ratio	Lower	Upper
96	100		
61	164.3	157.0	197.0

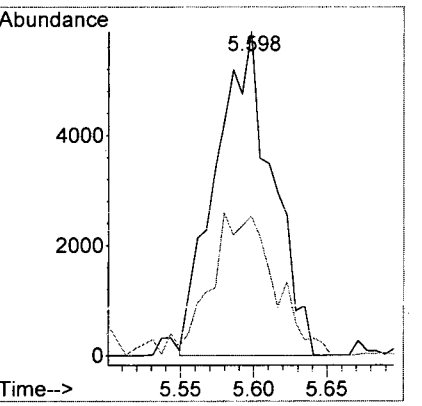


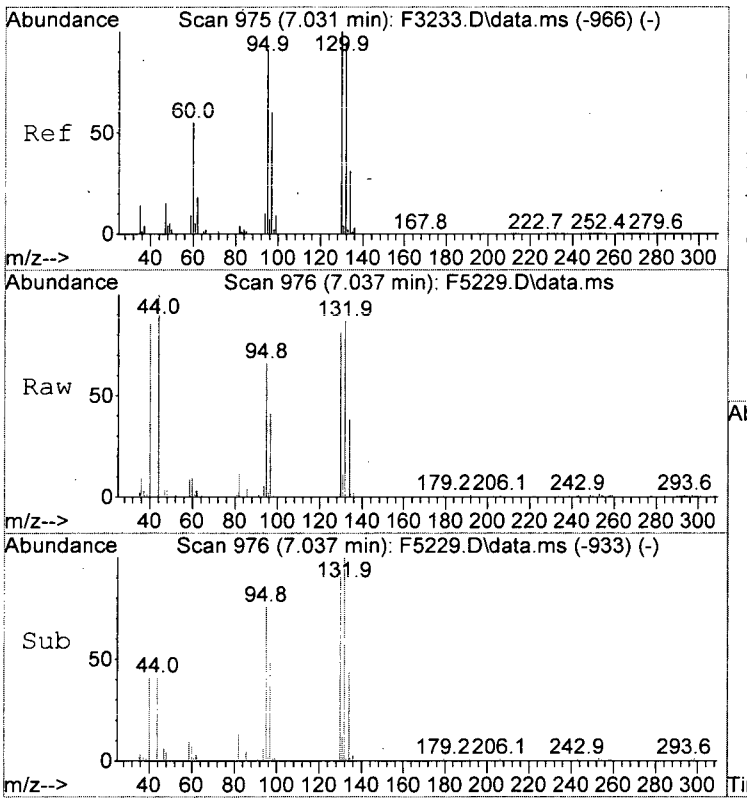


#42
Cyclohexane
Concen: 1.69 ug/L
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 41 Resp: 15825

Ion	Ratio	Lower	Upper
41	100		
39	43.1	22.1	62.1

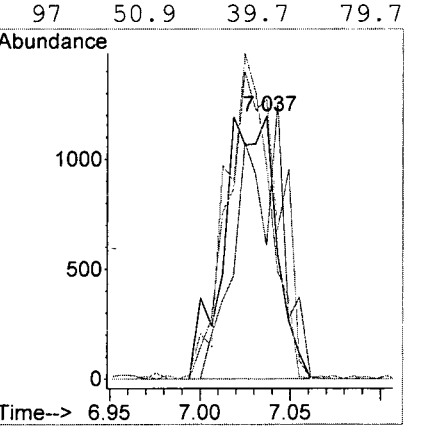


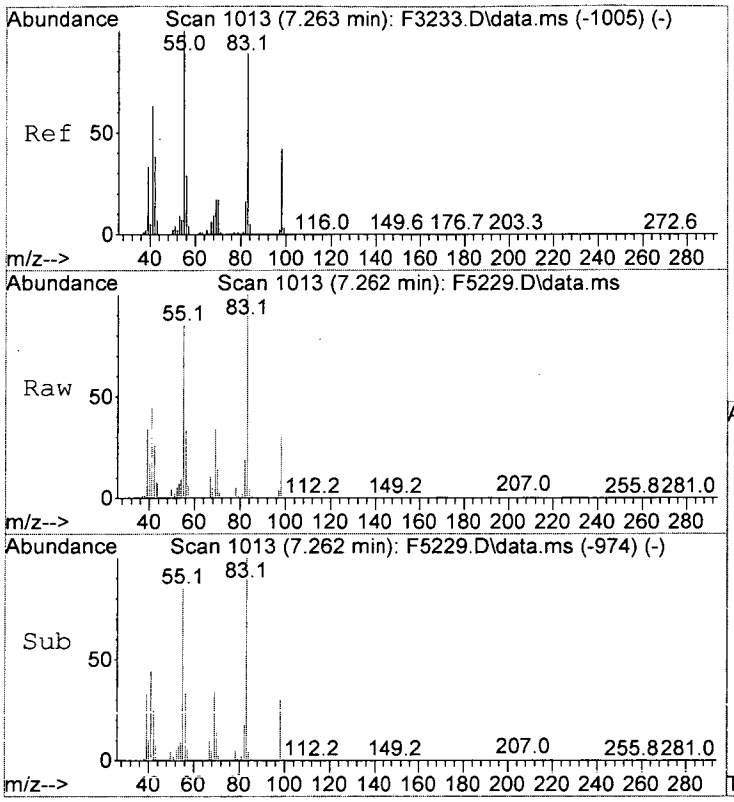


#53
Trichloroethene
Concen: 0.40 ug/L
RT: 7.037 min Scan# 976
Delta R.T. 0.012 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion:130 Resp: 2398

Ion	Ratio	Lower	Upper
130	100		
132	106.5	74.1	114.1
95	81.1	70.9	110.9
97	50.9	39.7	79.7

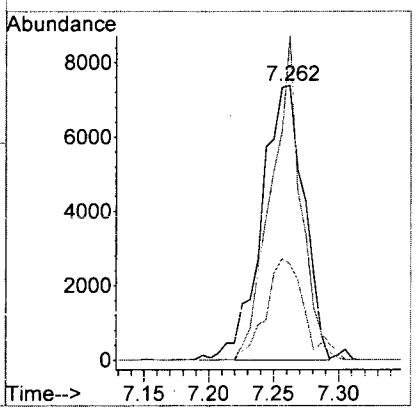




#54
Methylcyclohexane
Concen: 1.60 ug/L
RT: 7.262 min Scan# 1013
Delta R.T. -0.000 min
Lab File: F5229.D
Acq: 22 Dec 2015 7:24 pm

Tgt Ion: 55 Resp: 16822

Ion	Ratio	Lower	Upper
55	100		
83	118.0	69.2	109.2#
98	34.9	22.1	62.1



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1020
Date Received: 12/16/15

Sample Name: MW-7R
Lab Code: R1510962-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 18:55		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 18:55		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 18:55		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:55		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 18:55		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 18:55		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 18:55		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 18:55		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 18:55		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 18:55		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 18:55		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 18:55		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 18:55		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 18:55		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 18:55		477252	
Benzene	**0.34**	J	1.0	0.20	1	NA	12/21/15 18:55		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:55		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 18:55		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 18:55		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 18:55		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 18:55		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 18:55		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 18:55		477252	
Cyclohexane	**0.72**	J	1.0	0.25	1	NA	12/21/15 18:55		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 18:55		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 18:55		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 18:55		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1020
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-7R	**Units:**	µg/L
Lab Code:	R1510962-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 18:55		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 18:55		477252	
Methylcyclohexane	**0.76**	J	1.0	0.27	1	NA	12/21/15 18:55		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 18:55		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Trichloroethene (TCE)	**0.25**	J	1.0	0.22	1	NA	12/21/15 18:55		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
Vinyl Chloride	**6.2**		1.0	0.32	1	NA	12/21/15 18:55		477252	
cis-1,2-Dichloroethene	**17**		1.0	0.30	1	NA	12/21/15 18:55		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 18:55		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 18:55		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 18:55		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 18:55		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	12/21/15 18:55	
Dibromofluoromethane	100	89-119	12/21/15 18:55	
Toluene-d8	103	87-121	12/21/15 18:55	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5201.D
Acq On : 21 Dec 2015 6:55 pm
Operator : F. Naegler
Sample : R1510962-003|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 14:28:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	632464	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	928944	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	803849	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	419000	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	284086	49.85	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.70%				
46) surr1,1,2-dichloroetha...	6.025	65	349041	45.54	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.08%				
64) SURR3,Toluene-d8	8.488	98	1086533	51.33	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.66%				
69) SURR2,BFB	11.018	95	410815	48.61	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.22%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	65237	6.18	ug/L		67
5) Bromomethane	1.617	94	446	Below Cal		#	66
15) Acetone	2.410	43	2803	0.49	ug/L		93
33) cis-1,2-Dichloroethene	4.617	96	110311	17.23	ug/L	#	85
42) Cyclohexane	5.598	41	7112m	0.72	ug/L		
47) Benzene	6.098	78	8493	0.34	ug/L		88
53) Trichloroethene	7.025	130	1612	0.25	ug/L	#	52
54) Methylcyclohexane	7.244	55	8427	0.76	ug/L	#	59

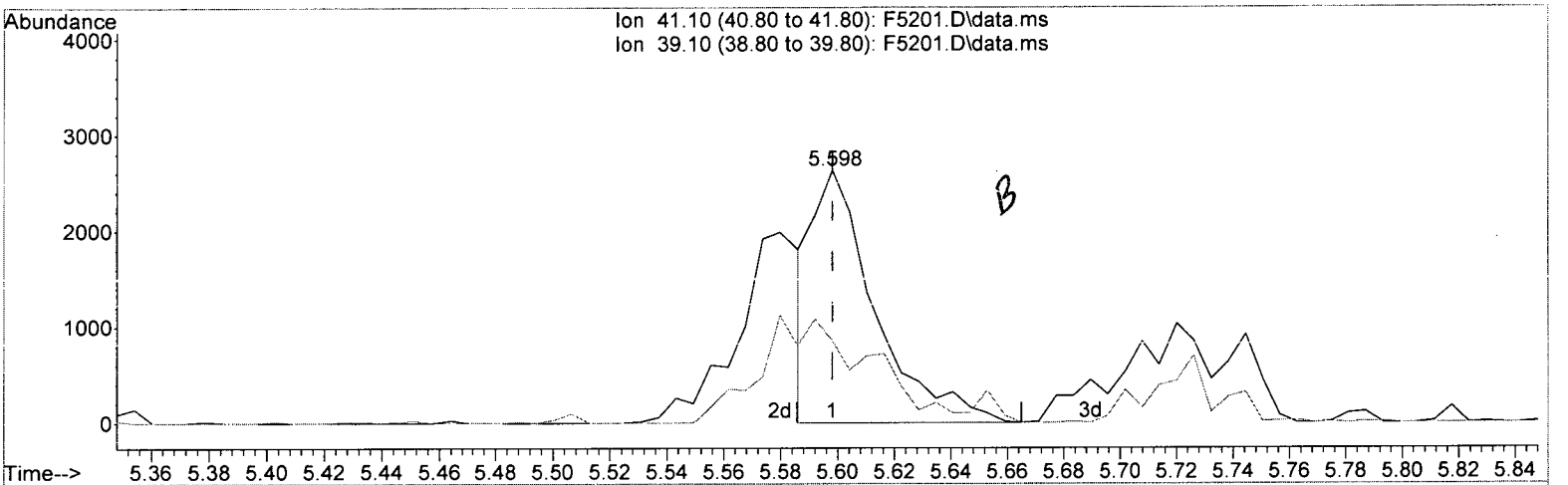
(#) = qualifier out of range (m) = manual integration (+) = signals summed

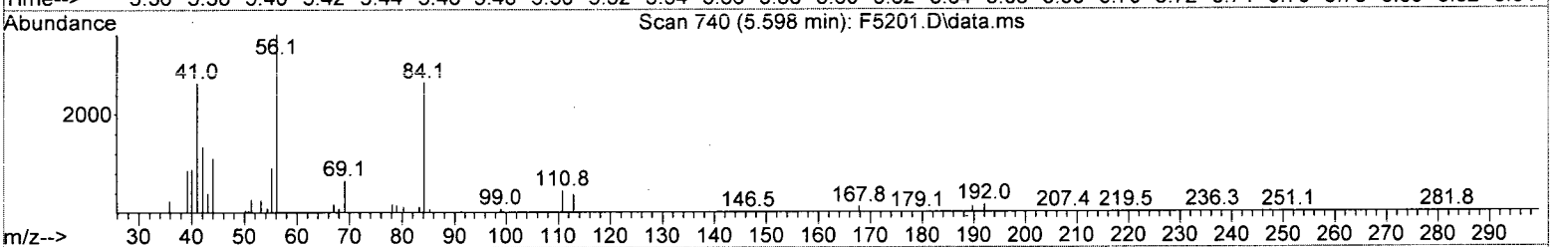
FJ 12/29/15

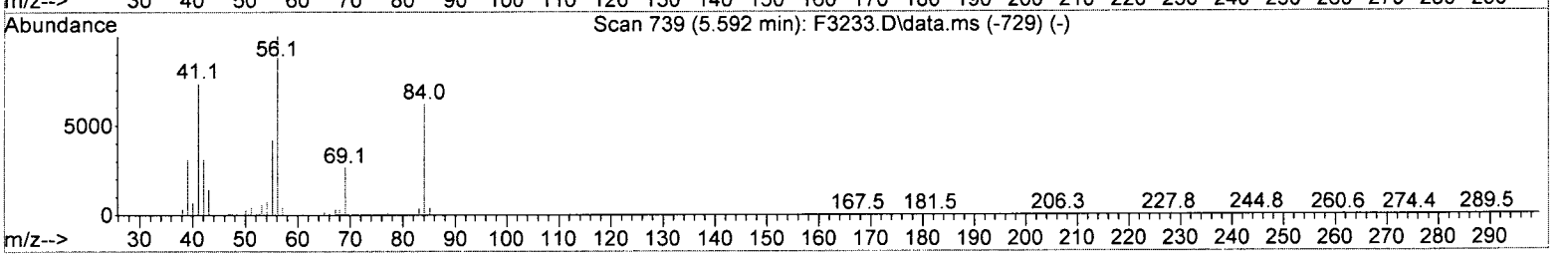
KR 12/29/15

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5201.D
Acq On : 21 Dec 2015 6:55 pm
Operator : F. Naegler
Sample : R1510962-003|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 21 19:10:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5201.D\data.ms

(42) Cyclohexane (P)

5.598min (-0.000) 0.41 ug/L

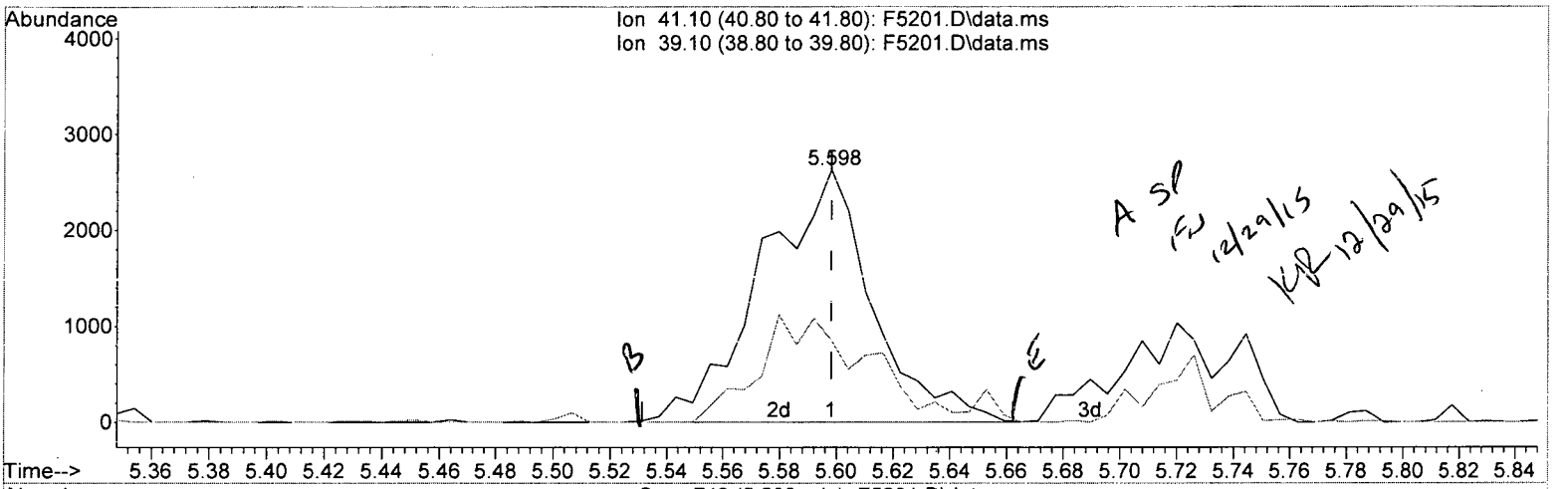
response 4036

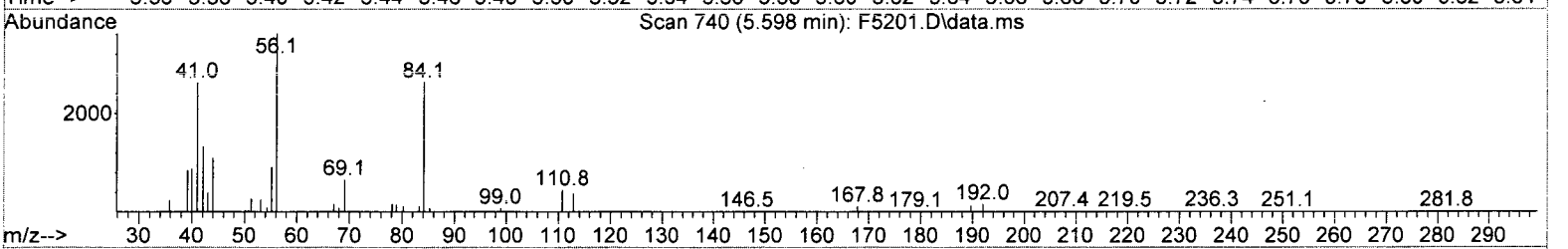
Ion	Exp%	Act%
41.10	100	100
39.10	42.10	32.39
0.00	0.00	0.00
0.00	0.00	0.00

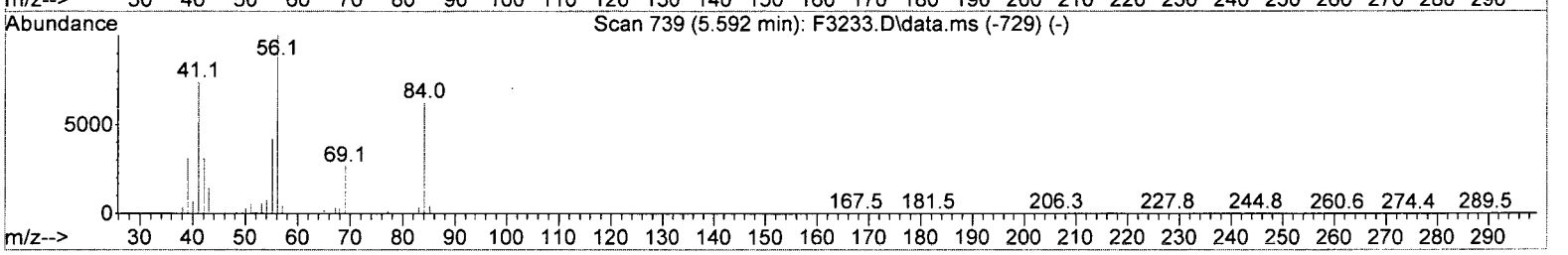
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5201.D
Acq On : 21 Dec 2015 6:55 pm
Operator : F. Naegler
Sample : R1510962-003|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 21 19:10:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5201.D\data.ms

(42) Cyclohexane (P)

5.598min (-0.000) 0.72 ug/L m

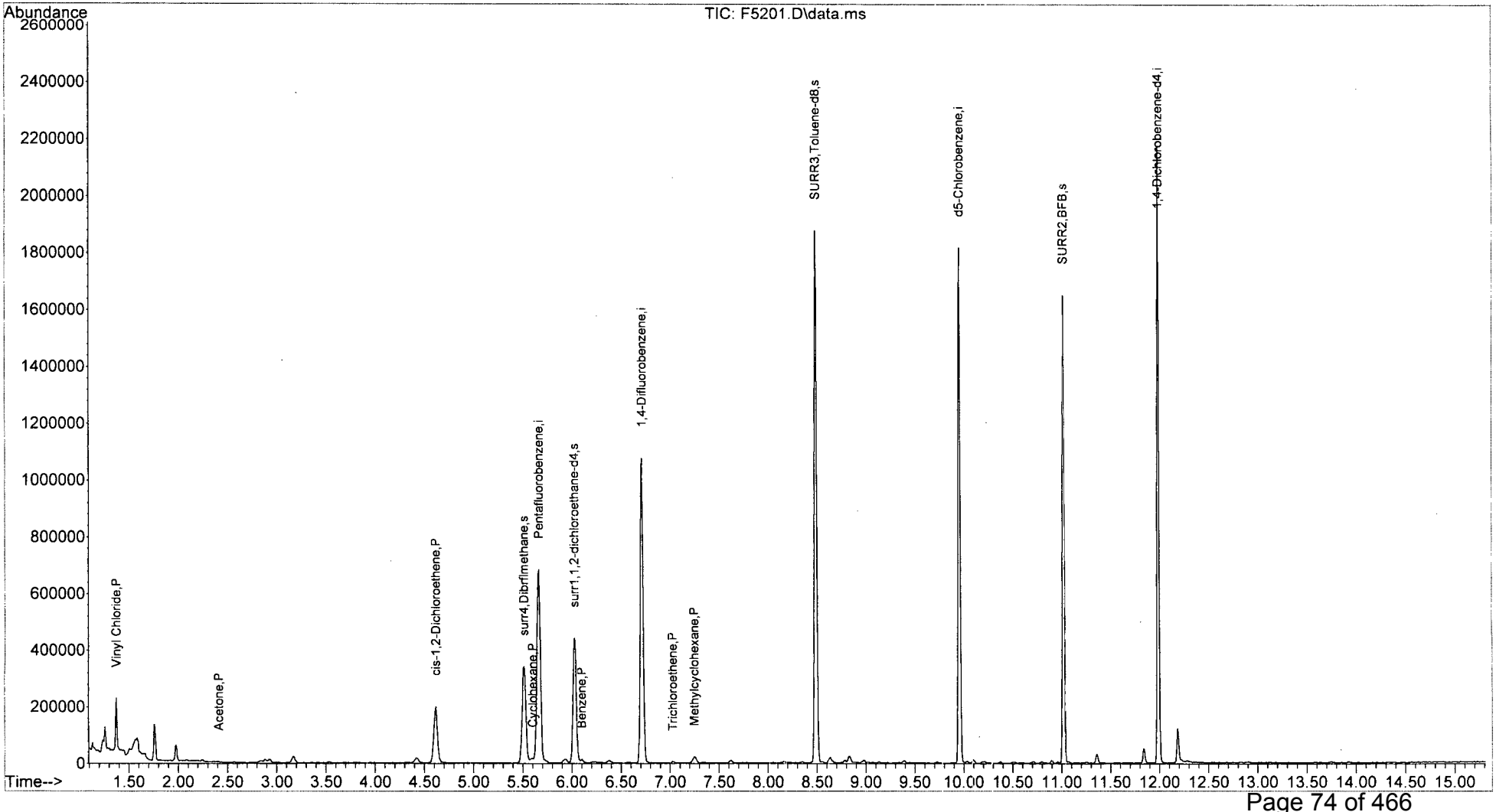
response 7112

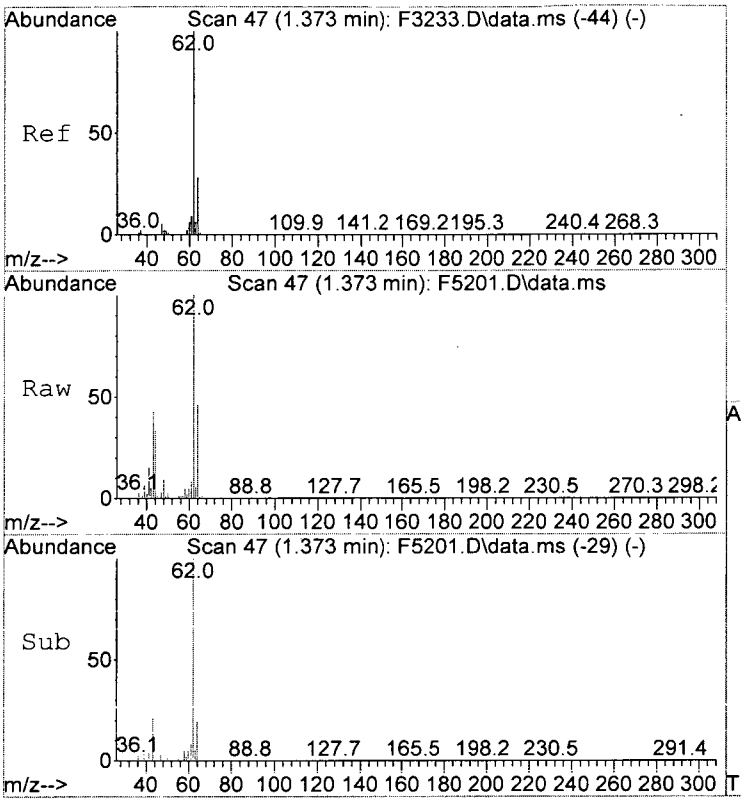
Ion	Exp%	Act%
41.10	100	100
39.10	42.10	32.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5201.D
Acq On : 21 Dec 2015 6:55 pm
Operator : F. Naegler
Sample : R1510962-003|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 29 14:28:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

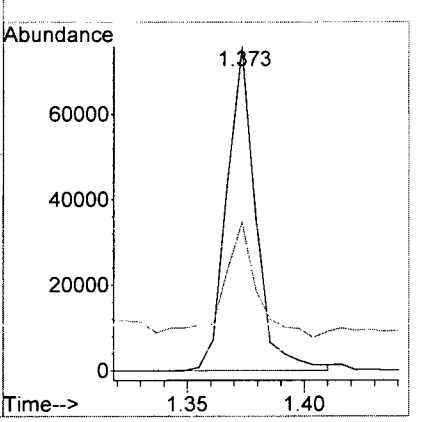


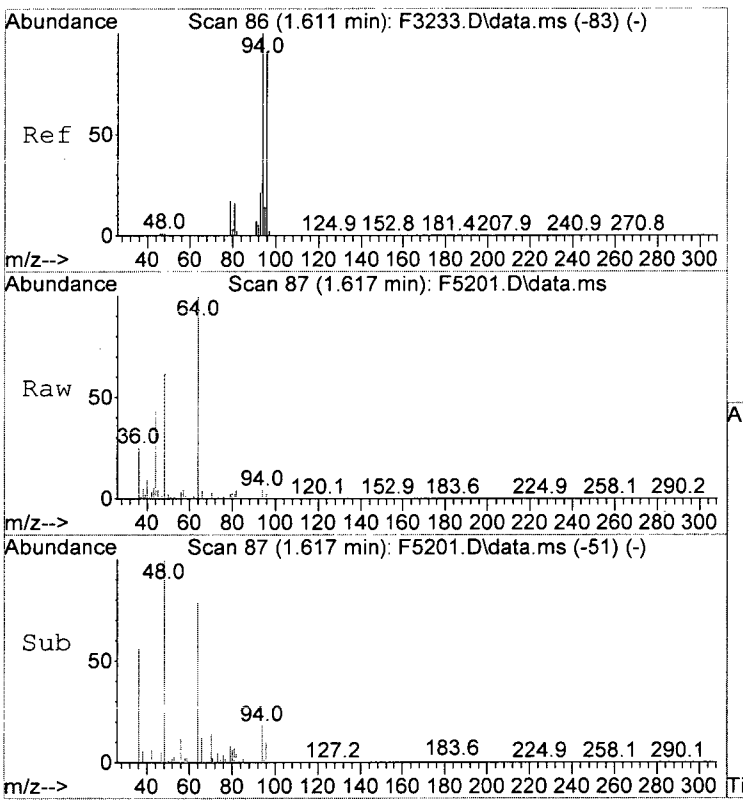


#4
Vinyl Chloride
Concen: 6.18 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 62 Resp: 65237

Ion	Ratio	Lower	Upper
62	100		
64	46.0	8.4	48.4

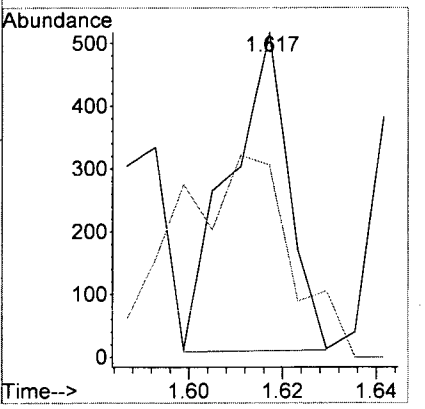


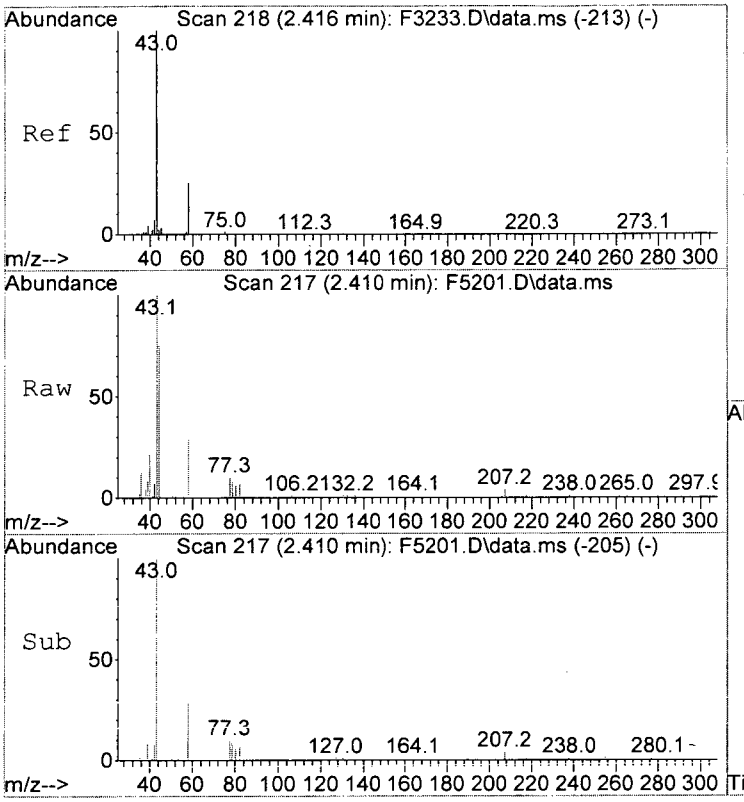


#5
Bromomethane
Concen: Below Cal
RT: 1.617 min Scan# 87
Delta R.T. -0.006 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 94 Resp: 446

Ion	Ratio	Lower	Upper
94	100		
96	59.2	71.0	111.0#

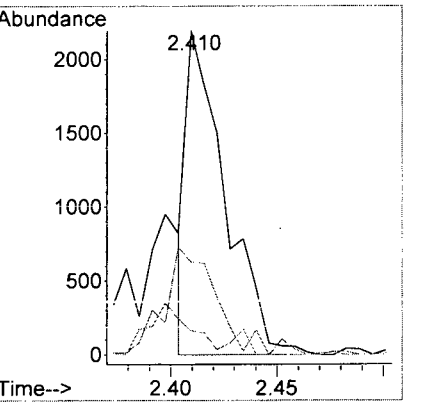


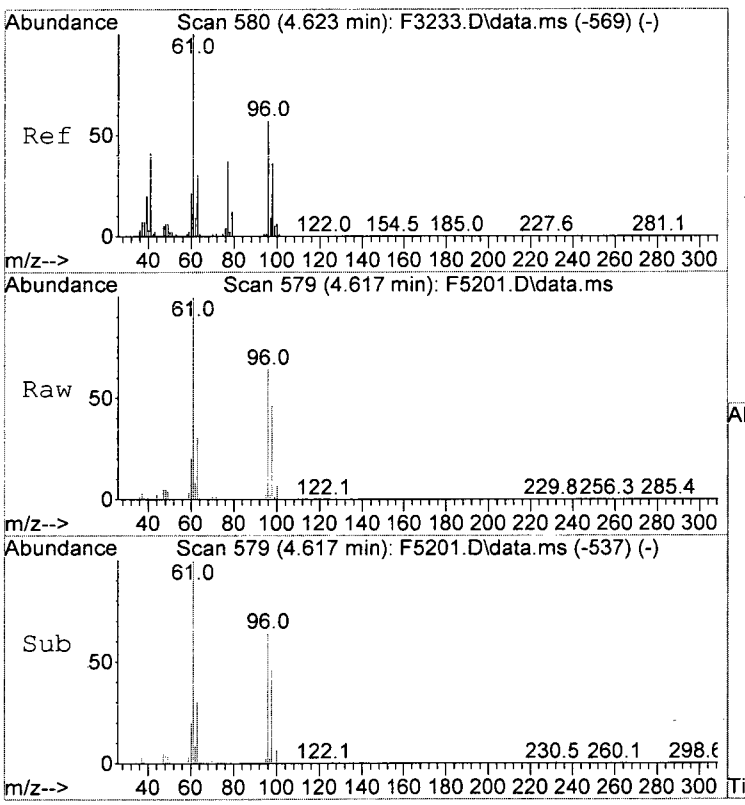


#15
Acetone
Concen: 0.49 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 43 Resp: 2803

Ion	Ratio	Lower	Upper
43	100		
58	28.5	4.3	44.3
42	7.4	0.0	27.3

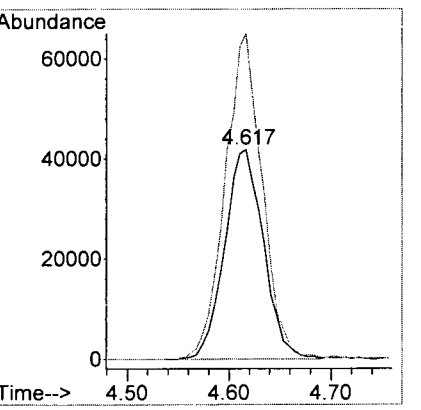


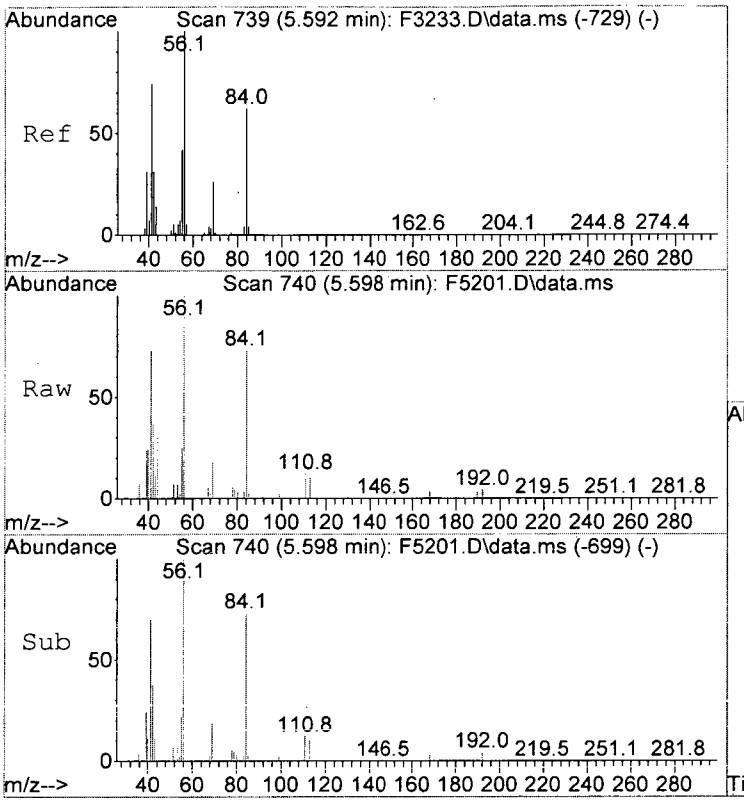


#33
cis-1,2-Dichloroethene
Concen: 17.23 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 96 Resp: 110311

Ion	Ratio	Lower	Upper
96	100		
61	155.4	157.0	197.0#

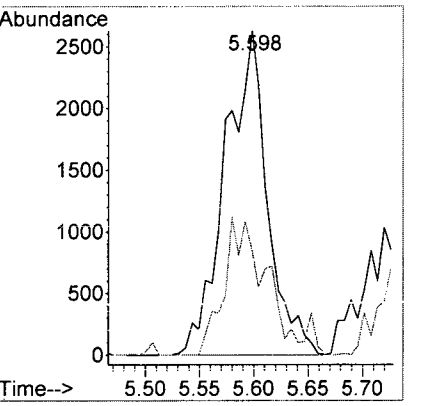


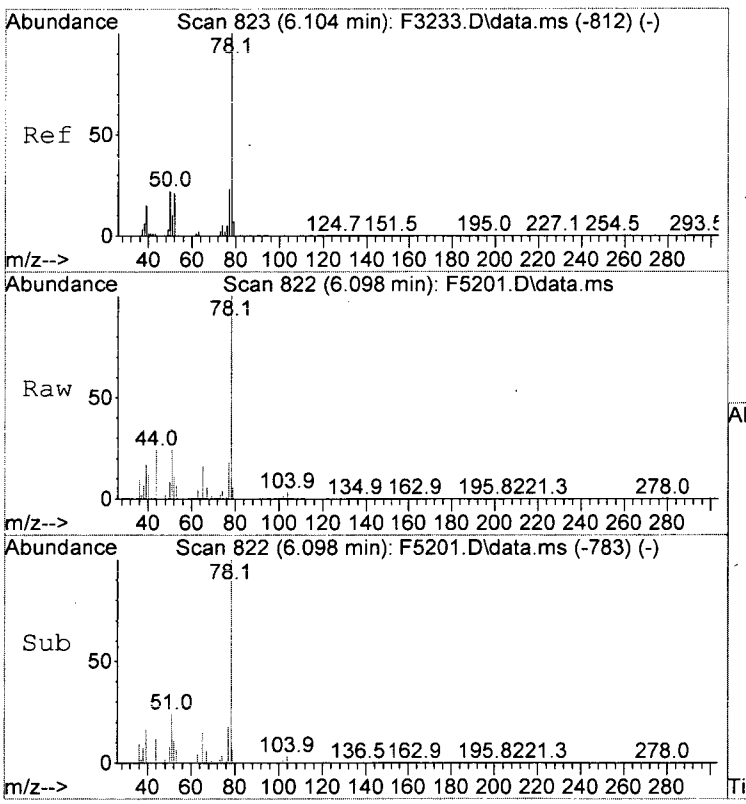


#42
Cyclohexane
Concen: 0.72 ug/L m
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 41 Resp: 7112

Ion	Ratio	Lower	Upper
41	100		
39	32.4	22.1	62.1

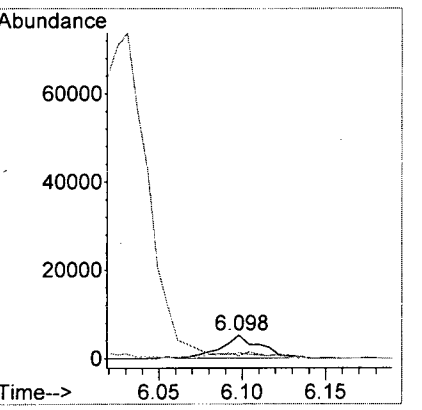


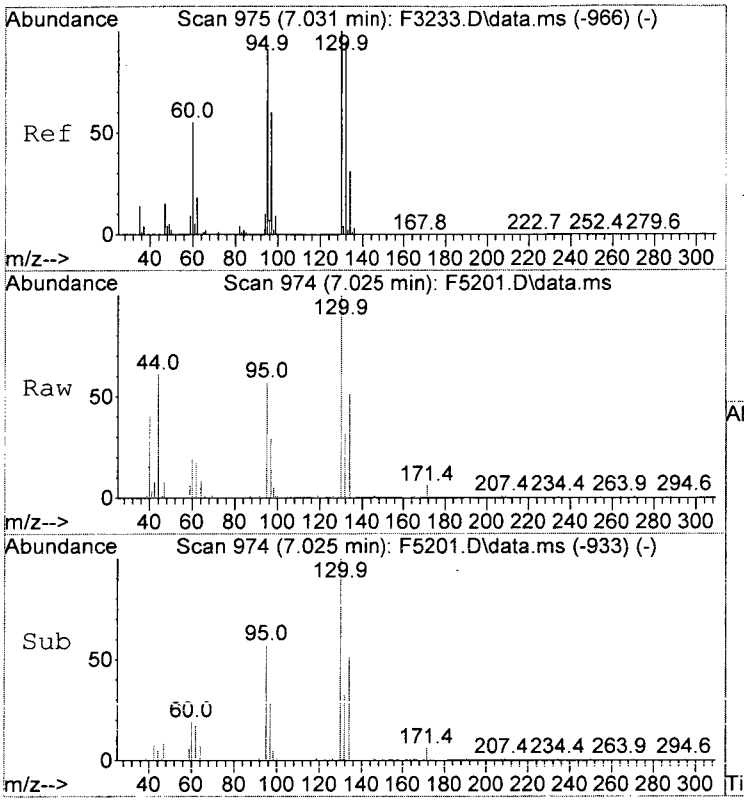


#47
Benzene
Concen: 0.34 ug/L
RT: 6.098 min Scan# 822
Delta R.T. -0.006 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 78 Resp: 8493

Ion	Ratio	Lower	Upper
78	100		
51	23.5	3.0	43.0
52	10.5	1.6	41.6

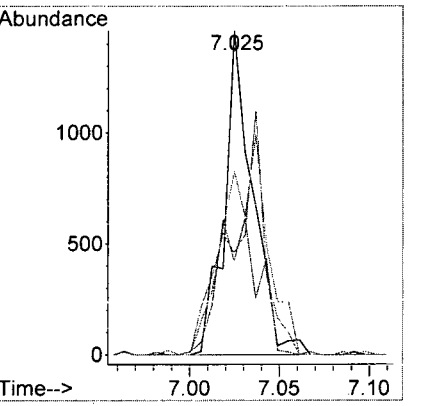


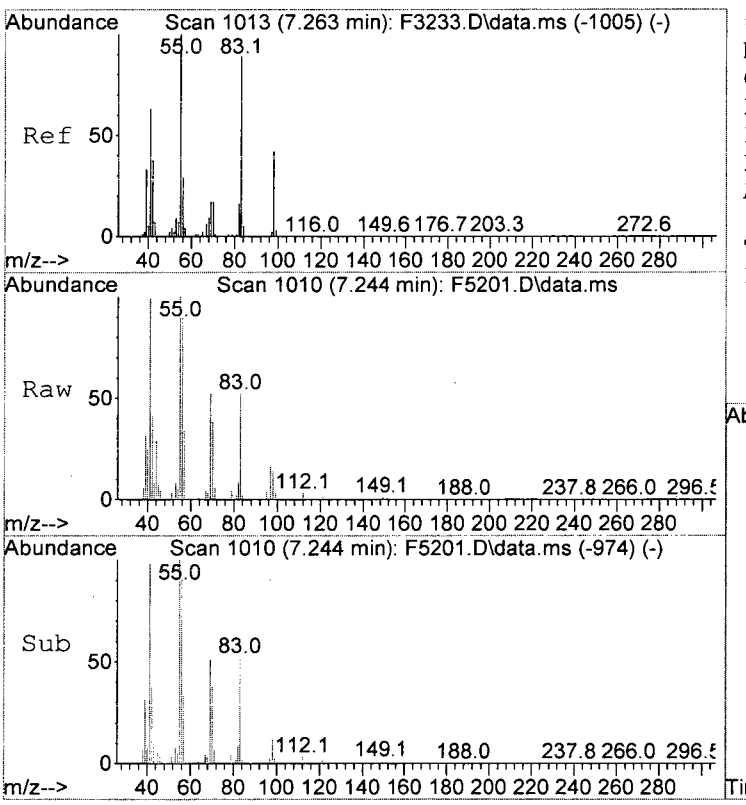


#53
Trichloroethene
Concen: 0.25 ug/L
RT: 7.025 min Scan# 974
Delta R.T. -0.000 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion:130 Resp: 1612

Ion	Ratio	Lower	Upper
130	100		
132	31.6	74.1	114.1#
95	56.7	70.9	110.9#
97	28.9	39.7	79.7#

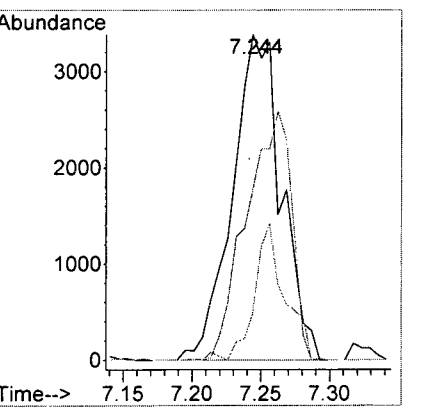




#54
Methylcyclohexane
Concen: 0.76 ug/L
RT: 7.244 min Scan# 1010
Delta R.T. -0.018 min
Lab File: F5201.D
Acq: 21 Dec 2015 6:55 pm

Tgt Ion: 55 Resp: 8427

Ion	Ratio	Lower	Upper
55	100		
83	52.3	69.2	109.2#
98	14.2	22.1	62.1#



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1100
Date Received: 12/16/15

Sample Name: MW-4
Lab Code: R1510962-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 19:19		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 19:19		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 19:19		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 19:19		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 19:19		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 19:19		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 19:19		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 19:19		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 19:19		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 19:19		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 19:19		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 19:19		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 19:19		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 19:19		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 19:19		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 19:19		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 19:19		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 19:19		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 19:19		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 19:19		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 19:19		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 19:19		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 19:19		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 19:19		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1100
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-4	**Units:**	µg/L
Lab Code:	R1510962-004	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 19:19		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 19:19		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 19:19		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 19:19		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 19:19		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
Vinyl Chloride	**0.49**	J	1.0	0.32	1	NA	12/21/15 19:19		477252	
cis-1,2-Dichloroethene	**2.6**		1.0	0.30	1	NA	12/21/15 19:19		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 19:19		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 19:19		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 19:19		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 19:19		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85-122	12/21/15 19:19	
Dibromofluoromethane	100	89-119	12/21/15 19:19	
Toluene-d8	102	87-121	12/21/15 19:19	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5202.D
Acq On : 21 Dec 2015 7:19 pm
Operator : F. Naegler
Sample : R1510962-004|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 14:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	640267	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	941299	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	818334	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	426616	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrfluoromethane	5.513	113	287782	49.84	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.68%			
46) surr1,1,2-dichloroetha...	6.025	65	355545	45.78	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.56%			
64) SURR3,Toluene-d8	8.488	98	1097607	51.18	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.36%			
69) SURR2,BFB	11.018	95	414826	48.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.88%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.373	62	5213	0.49	ug/L #	1
5) Bromomethane	1.611	94	685	Below Cal	#	29
15) Acetone	2.410	43	3158	0.55	ug/L	82
33) cis-1,2-Dichloroethene	4.623	96	16823	2.60	ug/L #	63
54) Methylcyclohexane	7.256	55	2575	0.23	ug/L	84

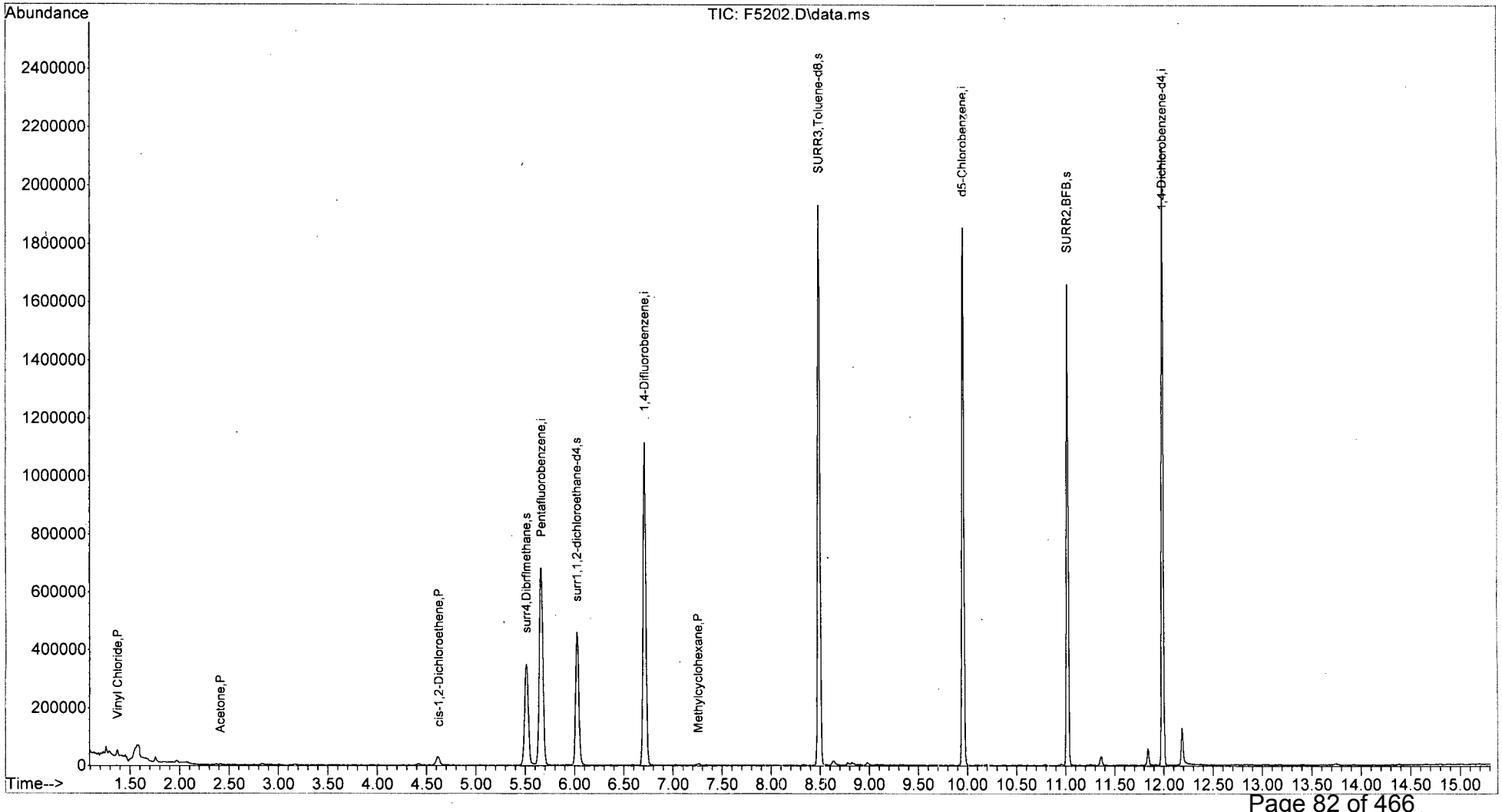
(#) = qualifier out of range (m) = manual integration (+) = signals summed

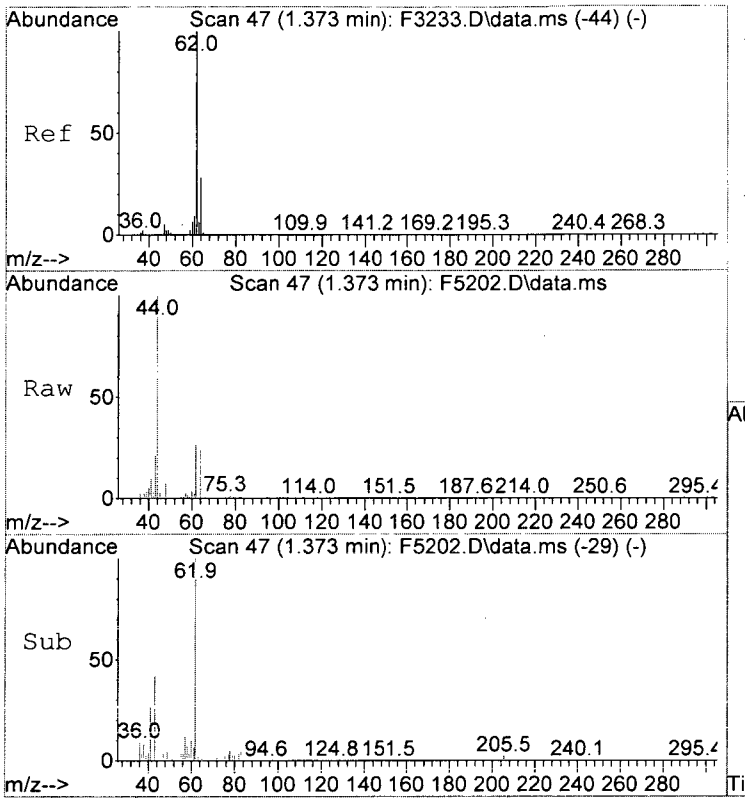
FJ 12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5202.D
Acq On : 21 Dec 2015 7:19 pm
Operator : F. Naegler
Sample : R1510962-004|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 29 14:30:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

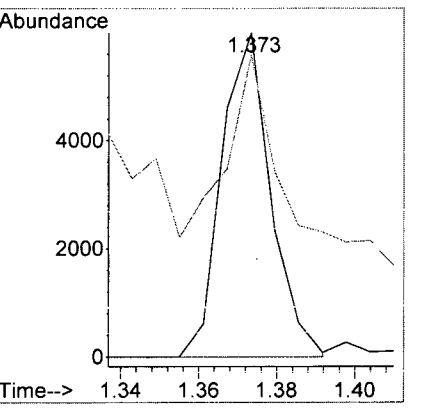


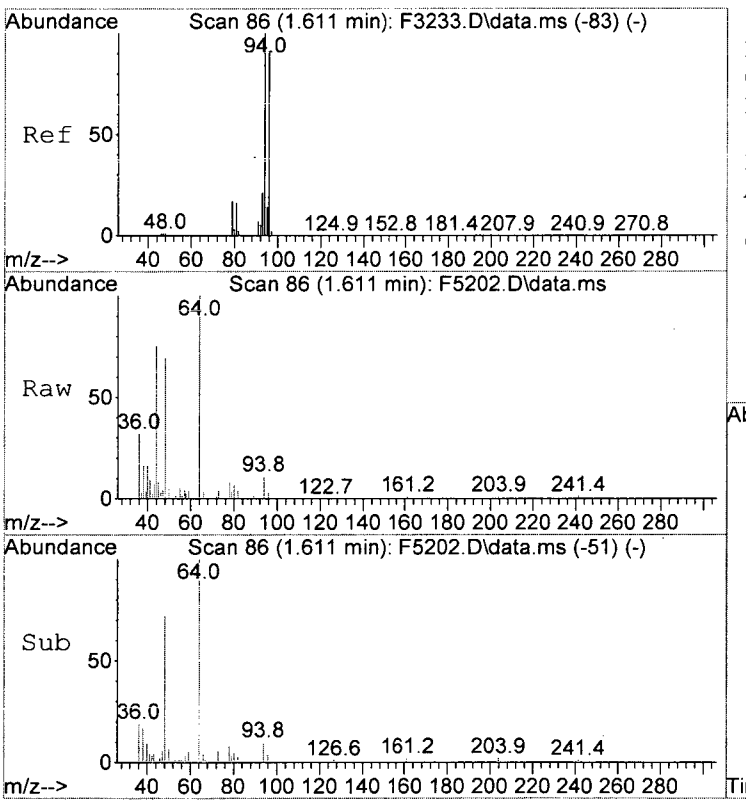


#4
Vinyl Chloride
Concen: 0.49 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5202.D
Acq: 21 Dec 2015 7:19 pm

Tgt Ion: 62 Resp: 5213

Ion	Ratio	Lower	Upper
62	100		
64	93.1	8.4	48.4#

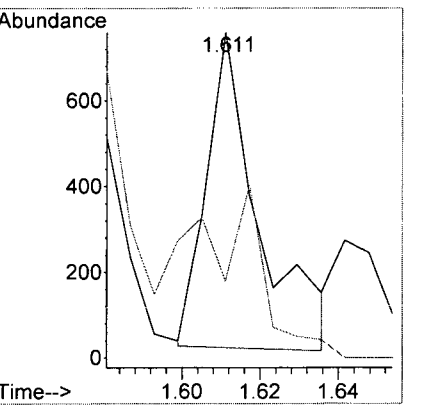


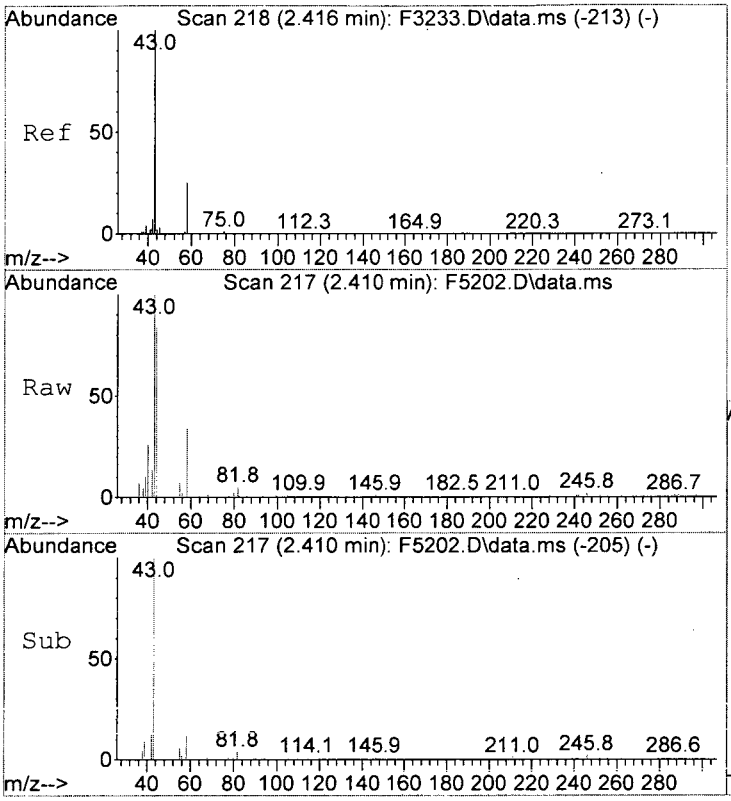


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. -0.012 min
Lab File: F5202.D
Acq: 21 Dec 2015 7:19 pm

Tgt Ion: 94 Resp: 685

Ion	Ratio	Lower	Upper
94	100		
96	23.6	71.0	111.0#

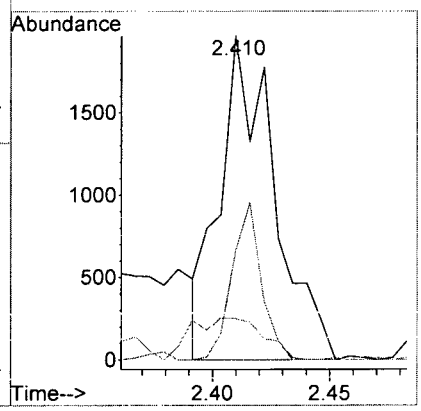


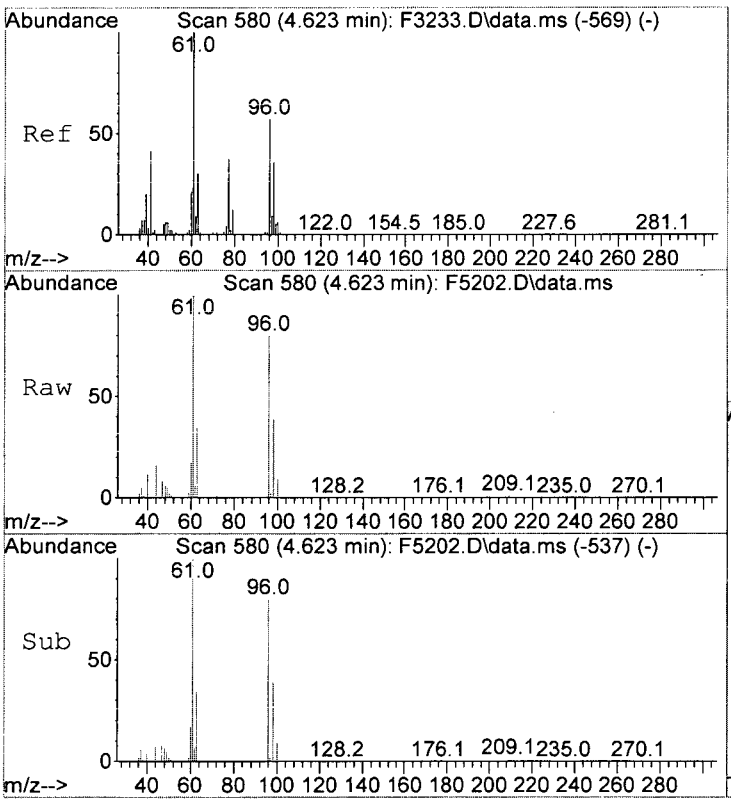


#15
Acetone
Concen: 0.55 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5202.D
Acq: 21 Dec 2015 7:19 pm

Tgt Ion: 43 Resp: 3158

Ion	Ratio	Lower	Upper
43	100		
58	33.6	4.3	44.3
42	12.6	0.0	27.3

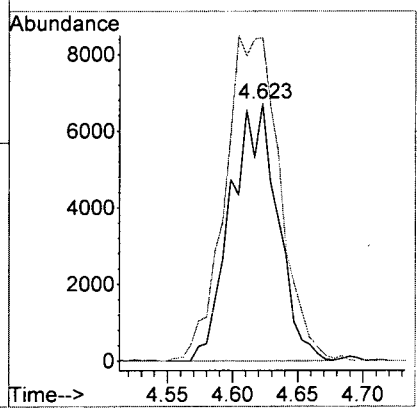


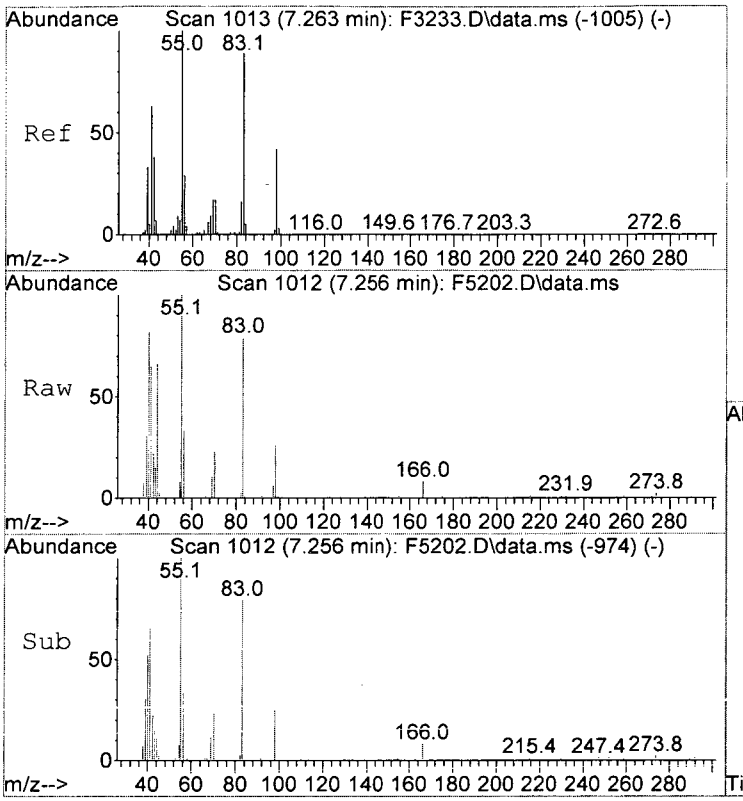


#33
cis-1,2-Dichloroethene
Concen: 2.60 ug/L
RT: 4.623 min Scan# 580
Delta R.T. 0.006 min
Lab File: F5202.D
Acq: 21 Dec 2015 7:19 pm

Tgt Ion: 96 Resp: 16823

Ion	Ratio	Lower	Upper
96	100		
61	125.6	157.0	197.0#

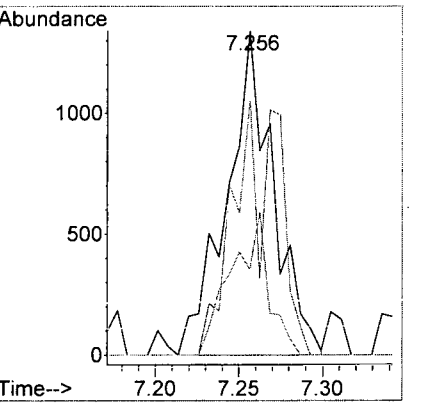




#54
Methylcyclohexane
Concen: 0.23 ug/L
RT: 7.256 min Scan# 1012
Delta R.T. -0.006 min
Lab File: F5202.D
Acq: 21 Dec 2015 7:19 pm

Tgt Ion: 55 Resp: 2575

Ion	Ratio	Lower	Upper
55	100		
83	78.6	69.2	109.2
98	26.4	22.1	62.1



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1130
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-1	**Units:**	µg/L
Lab Code:	R1510962-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 18:11		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 18:11		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:11		477582	
1,1-Dichloroethane (1,1-DCA)	**0.26**	J	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 18:11		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 18:11		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 18:11		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 18:11		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 18:11		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 18:11		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 18:11		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 18:11		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 18:11		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 18:11		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 18:11		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 18:11		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Carbon Disulfide	**5.6**		1.0	0.22	1	NA	12/22/15 18:11		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 18:11		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 18:11		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 18:11		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:11		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 18:11		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 18:11		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1130
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-1	**Units:**	µg/L
Lab Code:	R1510962-005	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 18:11		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 18:11		477582	
Methylcyclohexane	**0.52**	J	1.0	0.27	1	NA	12/22/15 18:11		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 18:11		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 18:11		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 18:11		477582	
cis-1,2-Dichloroethene	**0.46**	J	1.0	0.30	1	NA	12/22/15 18:11		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 18:11		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 18:11		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 18:11		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 18:11		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/22/15 18:11	
Dibromofluoromethane	101	89-119	12/22/15 18:11	
Toluene-d8	102	87-121	12/22/15 18:11	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:40:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	610940	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	921576	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	792634	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	398795	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	285488	50.50	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.00%			
46) surr1,1,2-dichloroetha...	6.031	65	380296	50.01	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.02%			
64) SURR3,Toluene-d8	8.488	98	1075060	51.20	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.40%			
69) SURR2,BFB	11.018	95	416750	49.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.40%			
Target Compounds						Qvalue
5) Bromomethane	1.605	94	358	Below Cal		93
15) Acetone	2.410	43	2710	0.49	ug/L	84
18) Carbon Disulfide	2.964	76	79420m	5.58	ug/L	
27) 1,1-Diclethane	3.696	63	2909	0.26	ug/L	82
38) Tetrahydrofuran	5.165	42	4049	0.80	ug/L	84
54) Methylcyclohexane	7.244	55	5767m	0.52	ug/L	
57) 1,4-Dioxane	7.512	88	1284	8.17	ug/L #	42
33) cis-1,2-DCE	4.617		2858	0.46		

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

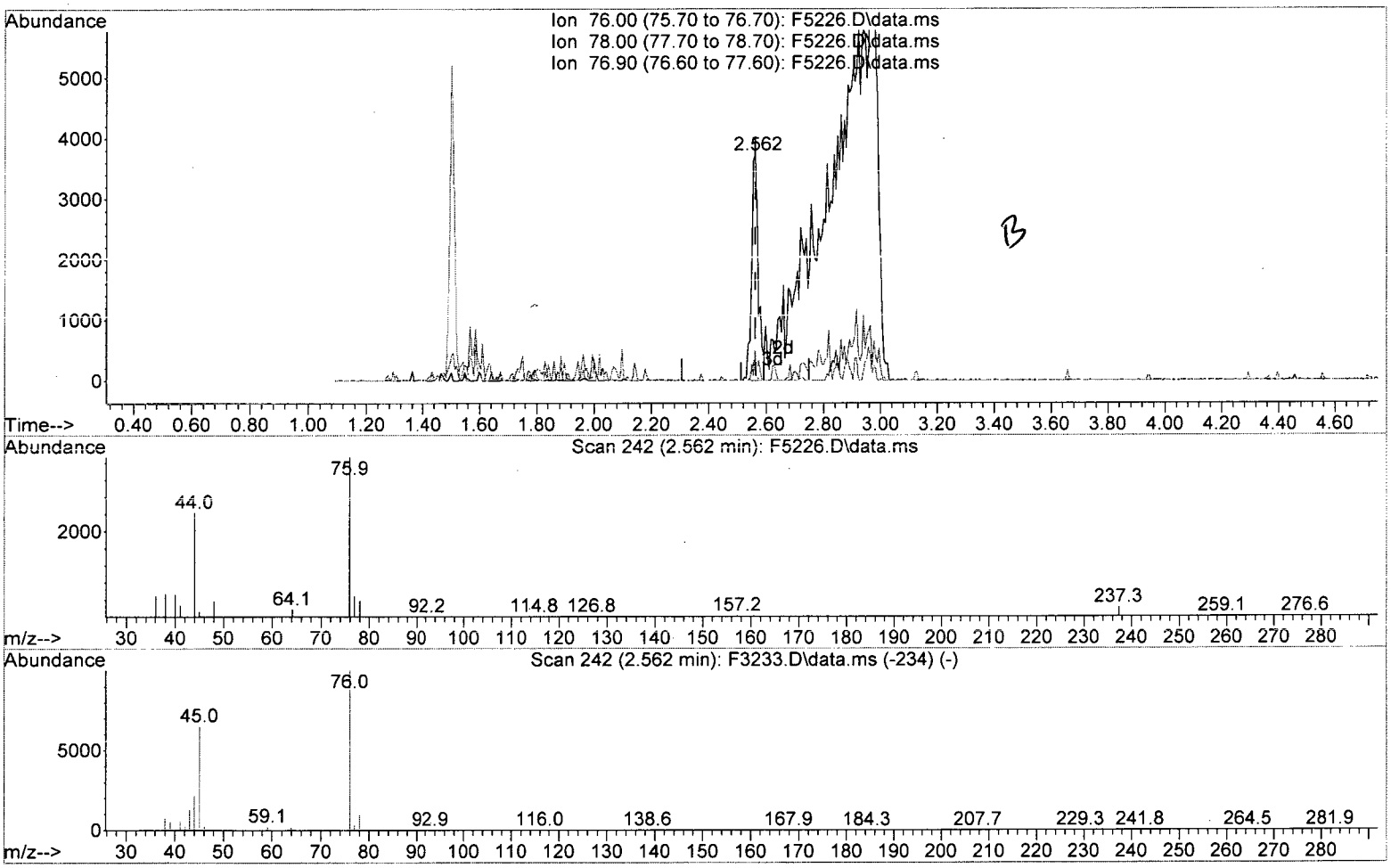
RJ 12/29/15

KF 12/30/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 18:26:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5226.D\data.ms

(18) Carbon Disulfide (P)

2.562min (-0.000) 0.43 ug/L

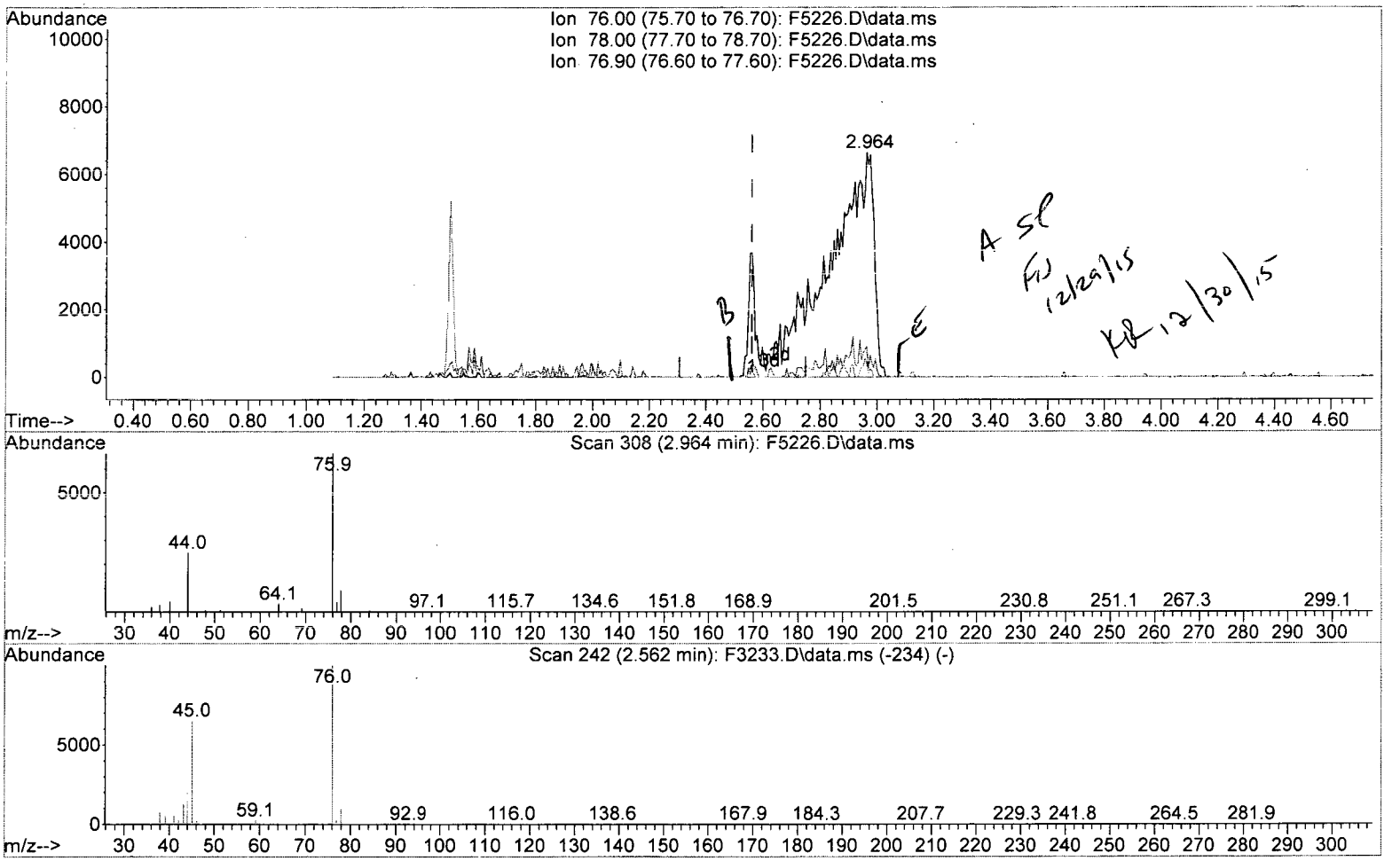
response 6119

Ion	Exp%	Act%
76.00	100	100
78.00	9.40	10.34
76.90	2.70	13.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 18:26:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5226.D\data.ms

(18) Carbon Disulfide (P)

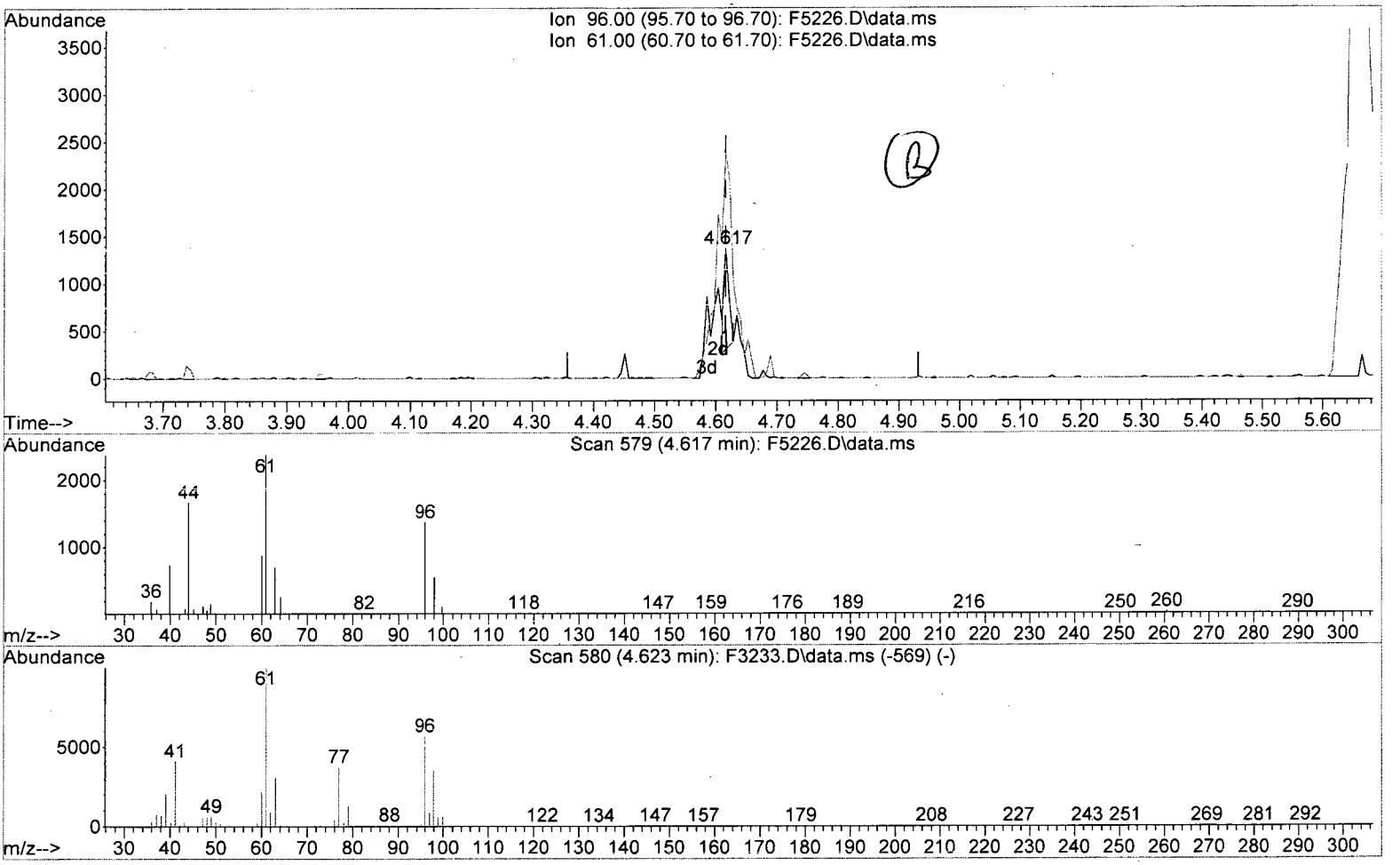
2.964min (+0.402) 5.58 ug/L m

response 79420

Ion	Exp%	Act%
76.00	100	100
78.00	9.40	13.58
76.90	2.70	6.19
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:40:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5226.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.000) 0.09 ug/L

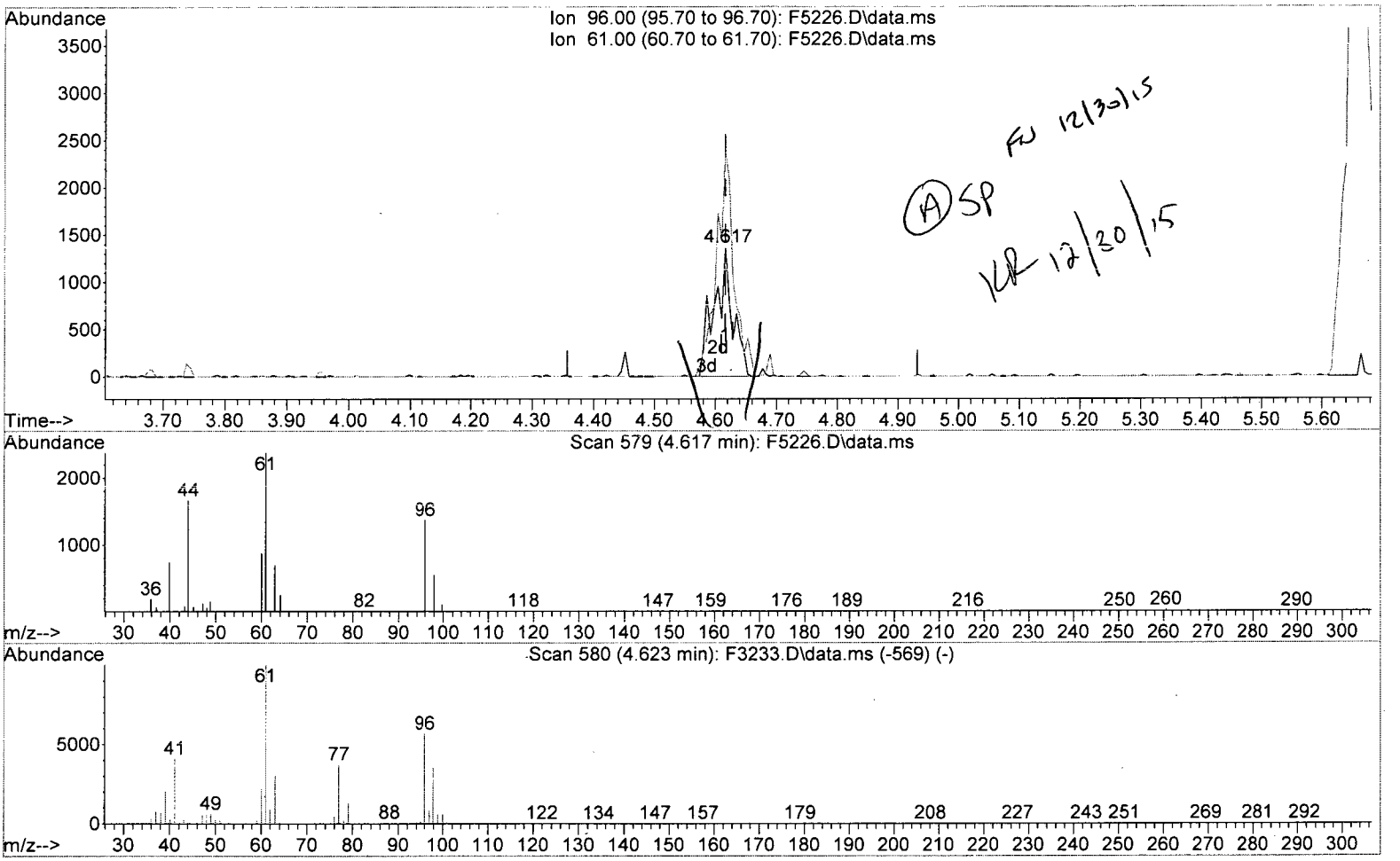
response 580

Ion	Exp%	Act%
96.00	100	100
61.00	177.00	173.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:40:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



FJ 12/30/15

(A) SP

KP 12/30/15

TIC: F5226.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.000) 0.46 ug/L m

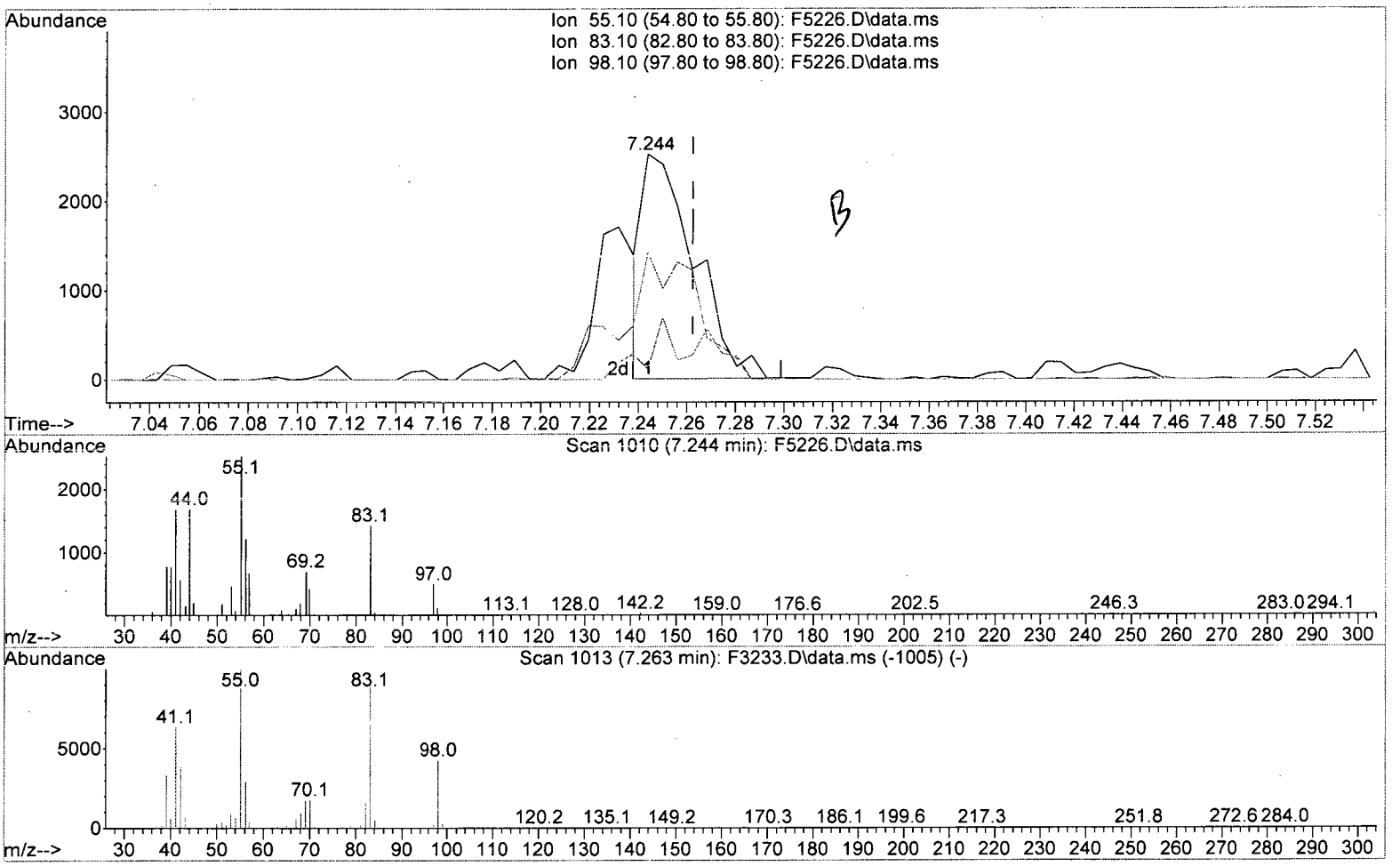
response 2858

Ion	Exp%	Act%
96.00	100	100
61.00	177.00	173.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 18:26:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5226.D\data.ms

(54) Methylcyclohexane (P)

7.244min (-0.019) 0.34 ug/L

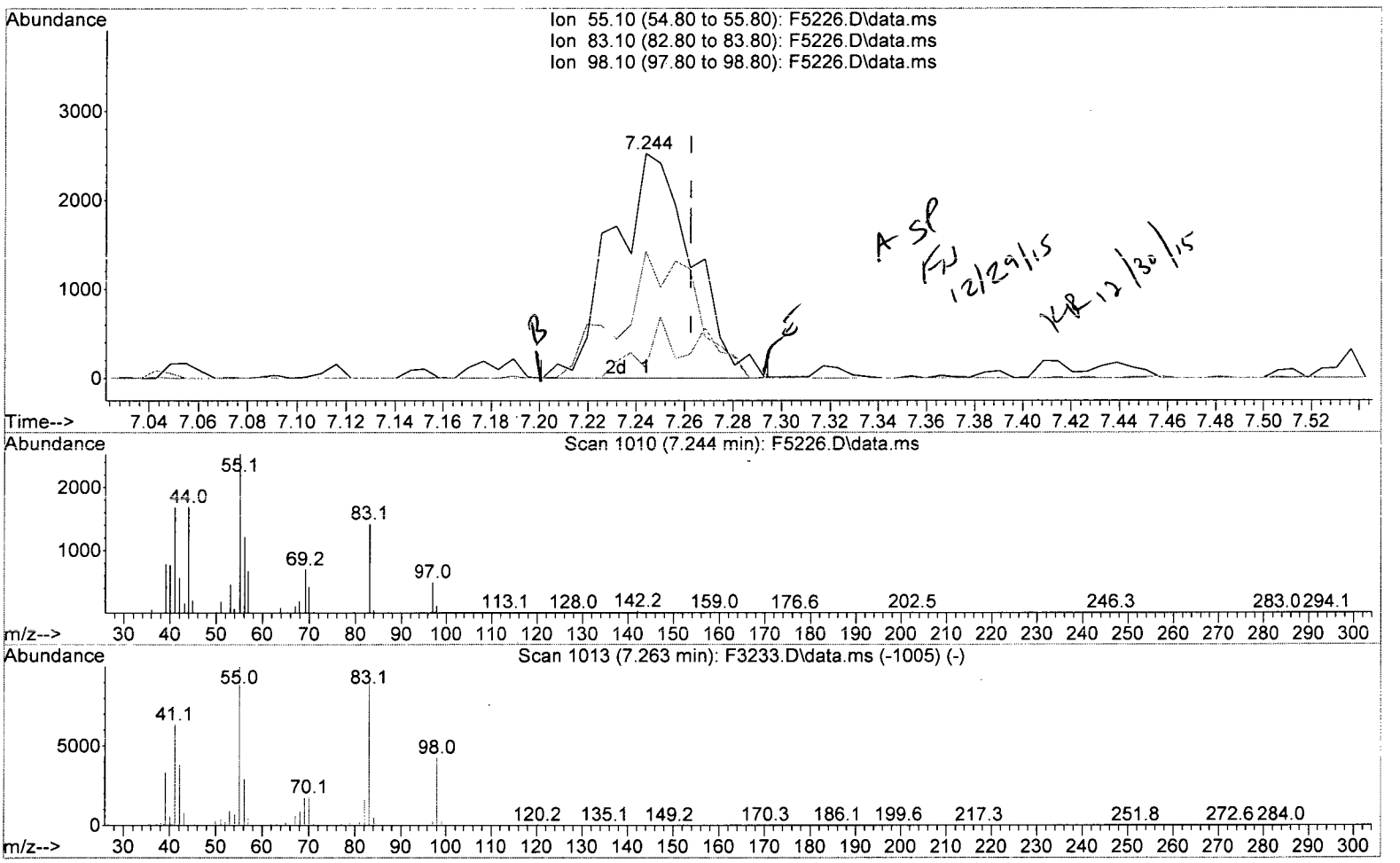
response 3755

Ion	Exp%	Act%
55.10	100	100
83.10	89.20	56.34#
98.10	42.10	4.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 22 18:26:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5226.D\data.ms

(54) Methylcyclohexane (P)

7.244min (-0.019) 0.52 ug/L m

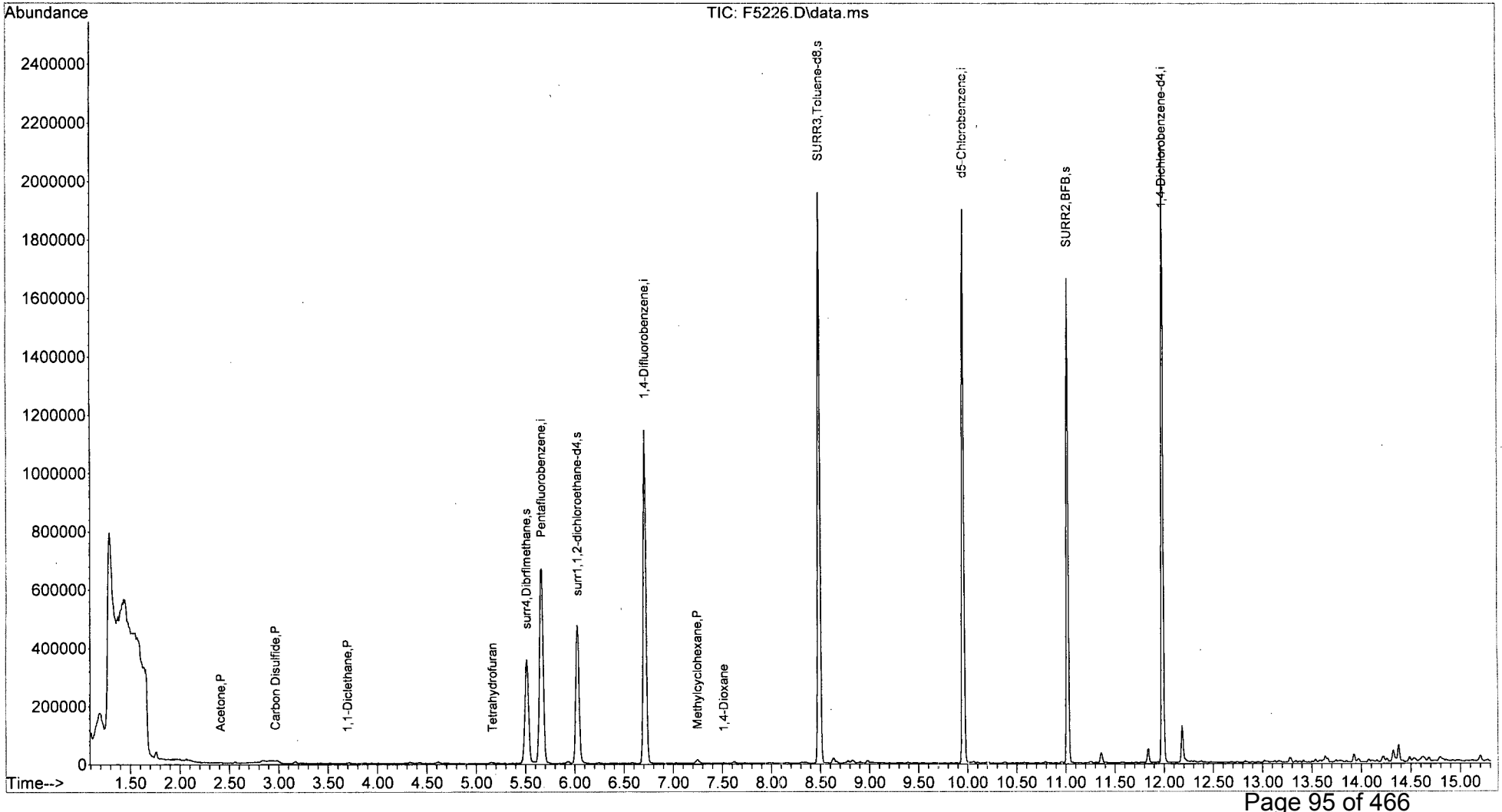
response 5767

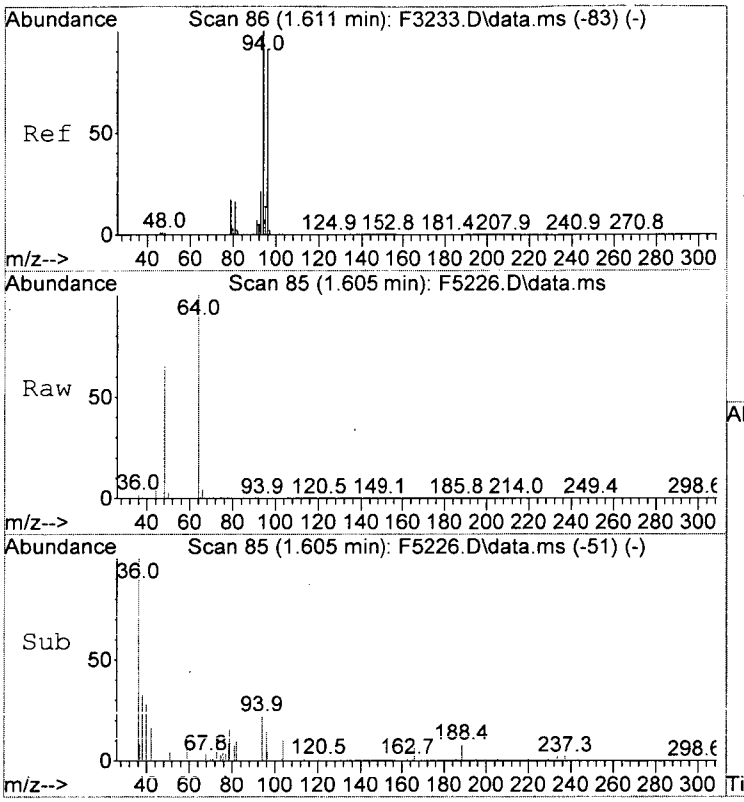
Ion	Exp%	Act%
55.10	100	100
83.10	89.20	56.34#
98.10	42.10	4.64#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5226.D
Acq On : 22 Dec 2015 6:11 pm
Operator : F. Naegler
Sample : R1510962-005|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 29 15:40:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

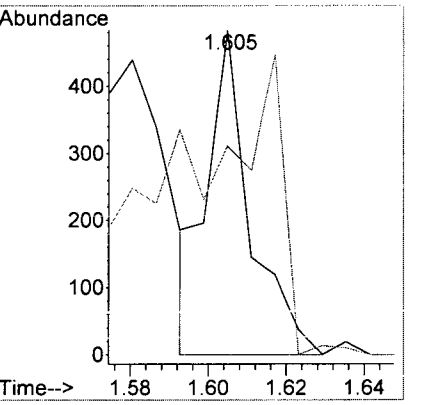


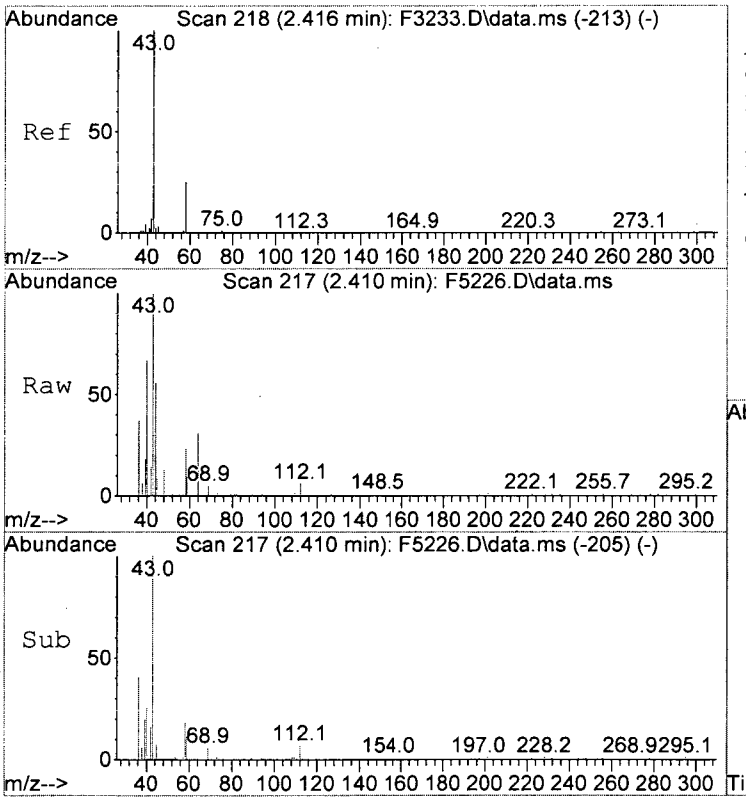


#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 85
Delta R.T. -0.018 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 94 Resp: 358

Ion	Ratio	Lower	Upper
94	100		
96	84.1	71.0	111.0

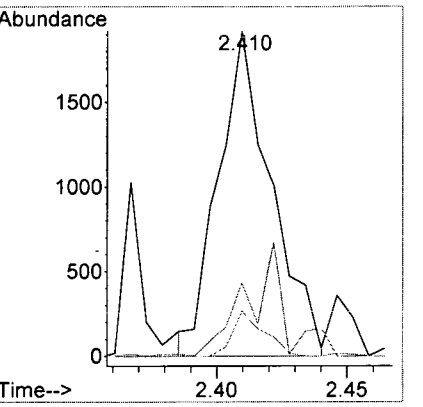


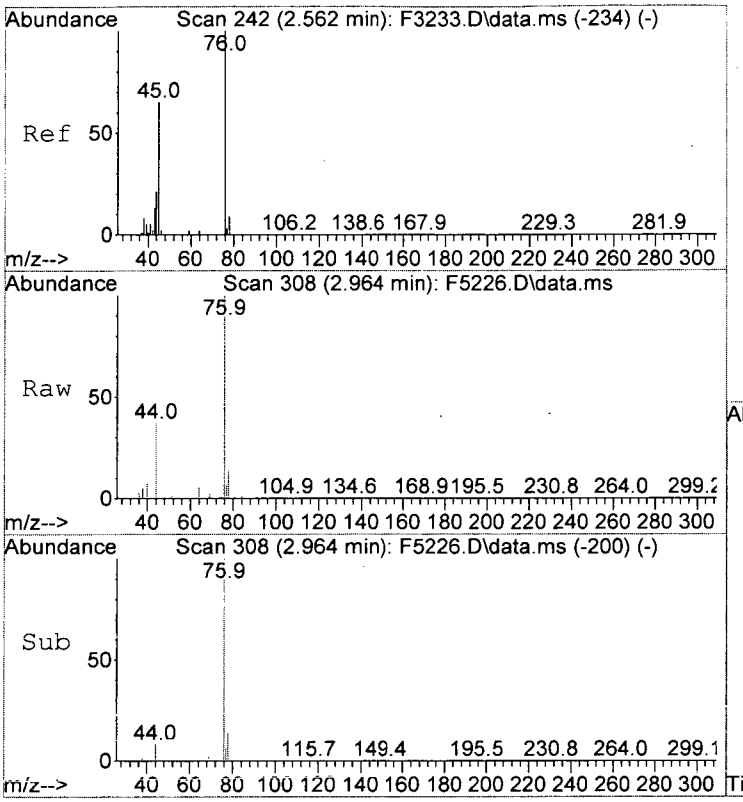


#15
Acetone
Concen: 0.49 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 43 Resp: 2710

Ion	Ratio	Lower	Upper
43	100		
58	31.9	4.3	44.3
42	13.8	0.0	27.3

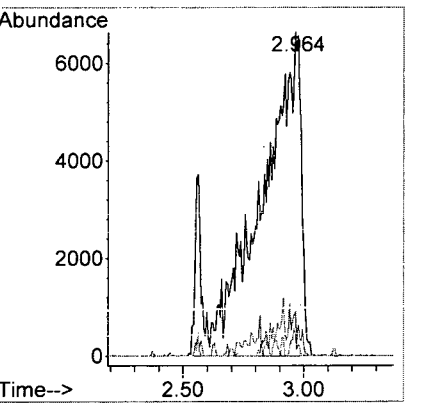


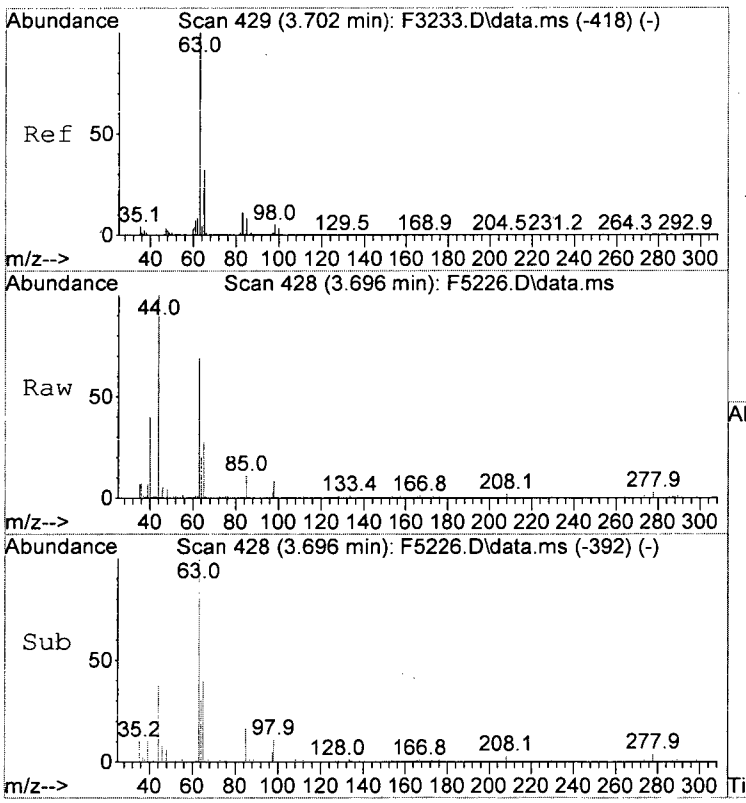


#18
Carbon Disulfide
Concen: 5.58 ug/L m
RT: 2.964 min Scan# 308
Delta R.T. 0.402 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 76 Resp: 79420

Ion	Ratio	Lower	Upper
76	100		
78	13.6	0.0	29.4
77	6.2	0.0	22.7

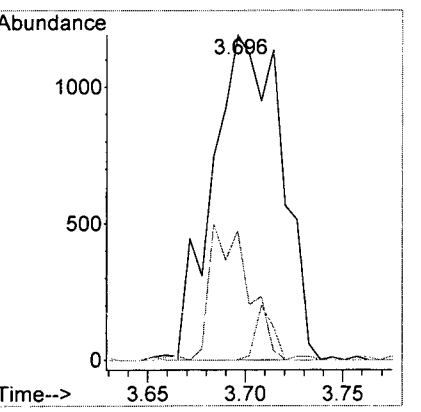


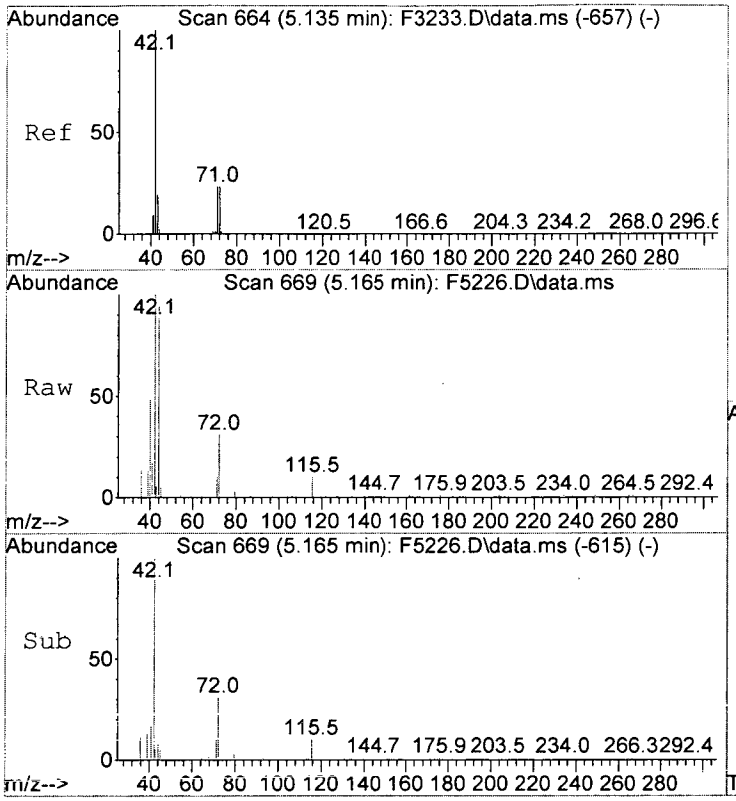


#27
1,1-Diclethane
Concen: 0.26 ug/L
RT: 3.696 min Scan# 428
Delta R.T. -0.006 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 63 Resp: 2909

Ion	Ratio	Lower	Upper
63	100		
65	39.8	11.7	51.7
83	0.0	0.0	30.6

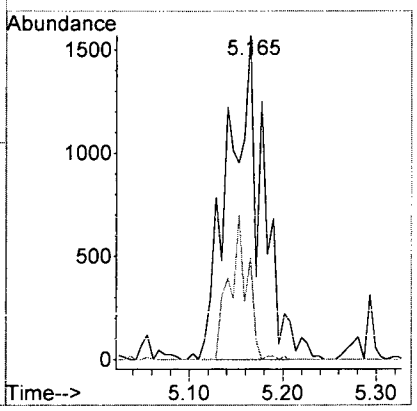


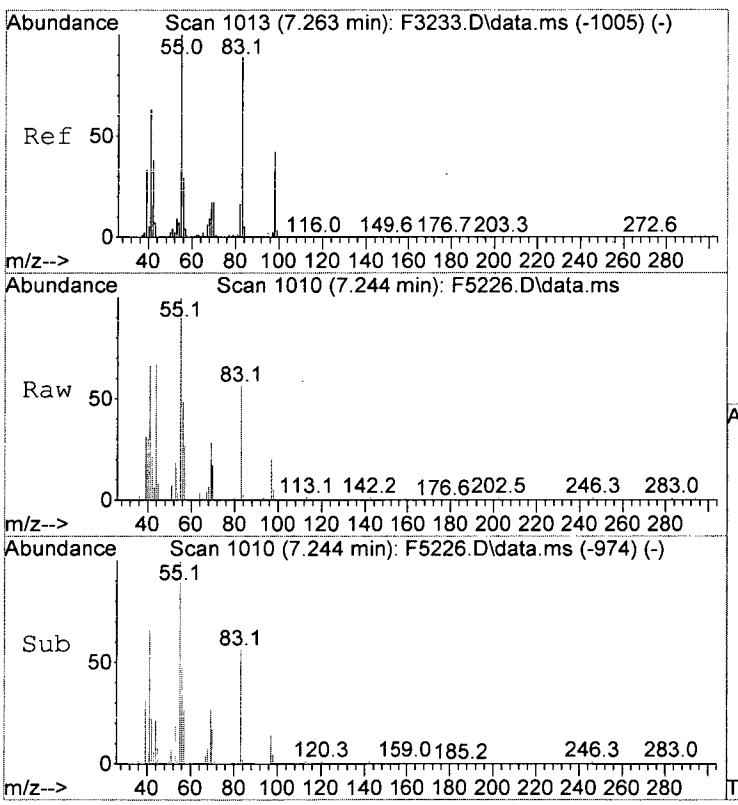


#38
Tetrahydrofuran
Concen: 0.80 ug/L
RT: 5.165 min Scan# 669
Delta R.T. 0.012 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 42 Resp: 4049

Ion	Ratio	Lower	Upper
42	100		
72	29.9	2.4	42.4

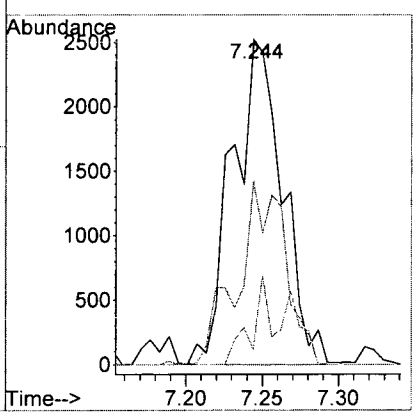


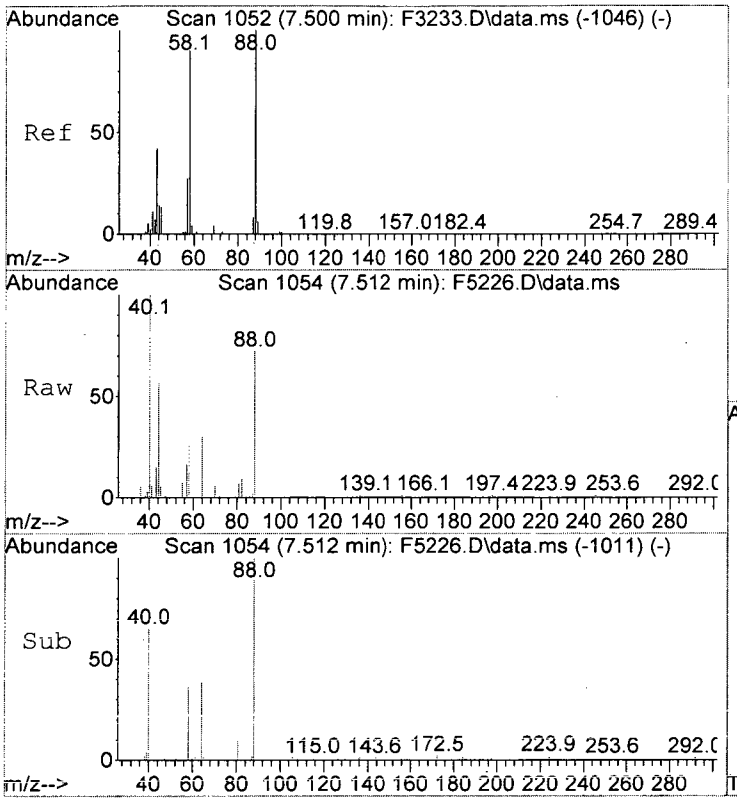


#54
Methylcyclohexane
Concen: 0.52 ug/L m
RT: 7.244 min Scan# 1010
Delta R.T. -0.019 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 55 Resp: 5767

Ion	Ratio	Lower	Upper
55	100		
83	56.3	69.2	109.2#
98	4.6	22.1	62.1#

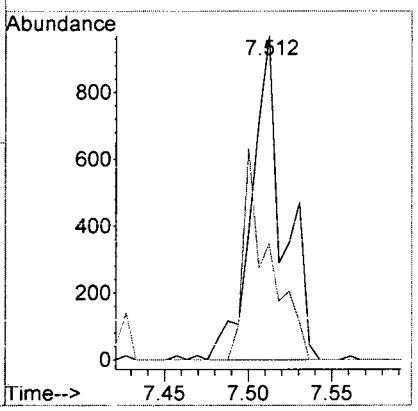


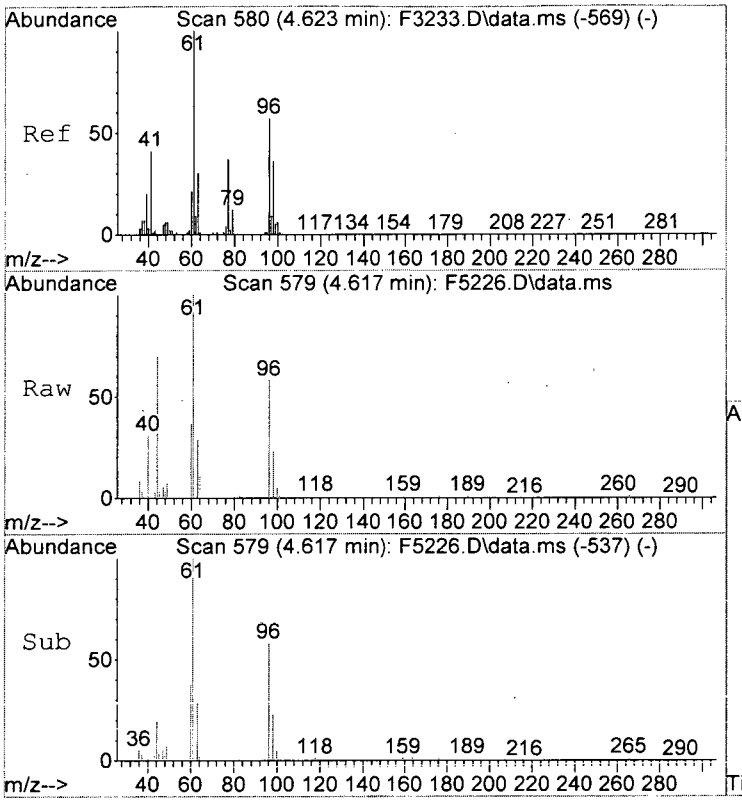


#57
1,4-Dioxane
Concen: 8.17 ug/L
RT: 7.512 min Scan# 1054
Delta R.T. 0.006 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 88 Resp: 1284

Ion	Ratio	Lower	Upper
88	100		
58	35.8	70.3	110.3#

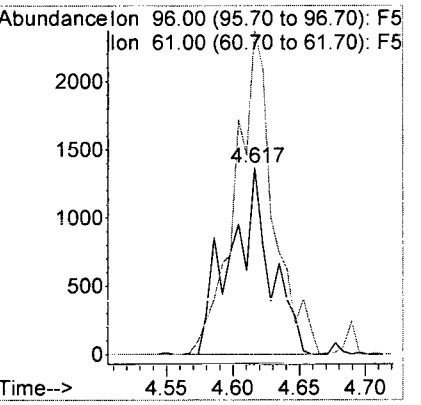




#33
cis-1,2-Dichloroethene
Concen: 0.46 ug/L m
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5226.D
Acq: 22 Dec 2015 6:11 pm

Tgt Ion: 96 Resp: 2858

Ion	Ratio	Lower	Upper
96	100		
61	173.5	157.0	197.0



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1210
Date Received: 12/16/15

Sample Name: EX-MW-12
Lab Code: R1510962-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:08		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:08		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:08		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 20:08		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:08		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:08		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:08		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:08		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:08		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:08		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:08		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:08		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:08		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:08		477252	
Benzene	**0.47**	J	1.0	0.20	1	NA	12/21/15 20:08		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:08		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:08		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:08		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:08		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 20:08		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:08		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:08		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:08		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1210
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-12	**Units:**	µg/L
Lab Code:	R1510962-006	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:08		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:08		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 20:08		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:08		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 20:08		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 20:08		477252	
cis-1,2-Dichloroethene	0.73	J	1.0	0.30	1	NA	12/21/15 20:08		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:08		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 20:08		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 20:08		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:08		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85-122	12/21/15 20:08	
Dibromofluoromethane	99	89-119	12/21/15 20:08	
Toluene-d8	101	87-121	12/21/15 20:08	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 14:41:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	627768	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	930375	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	805784	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	417794	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.507	113	281322	49.29	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.58%			
46) surr1,1,2-dichloroetha...	6.031	65	352254	45.89	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.78%			
64) SURR3,Toluene-d8	8.488	98	1075394	50.73	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.46%			
69) SURR2,BFB	11.018	95	400685	47.33	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 94.66%			
Target Compounds						Qvalue
5) Bromomethane	1.574	94	425	Below Cal		91
15) Acetone	2.416	43	2741	0.48	ug/L	78
33) cis-1,2-Dichloroethene	4.604	96	4623m	0.73	ug/L	
47) Benzene	6.110	78	11534m	0.47	ug/L	

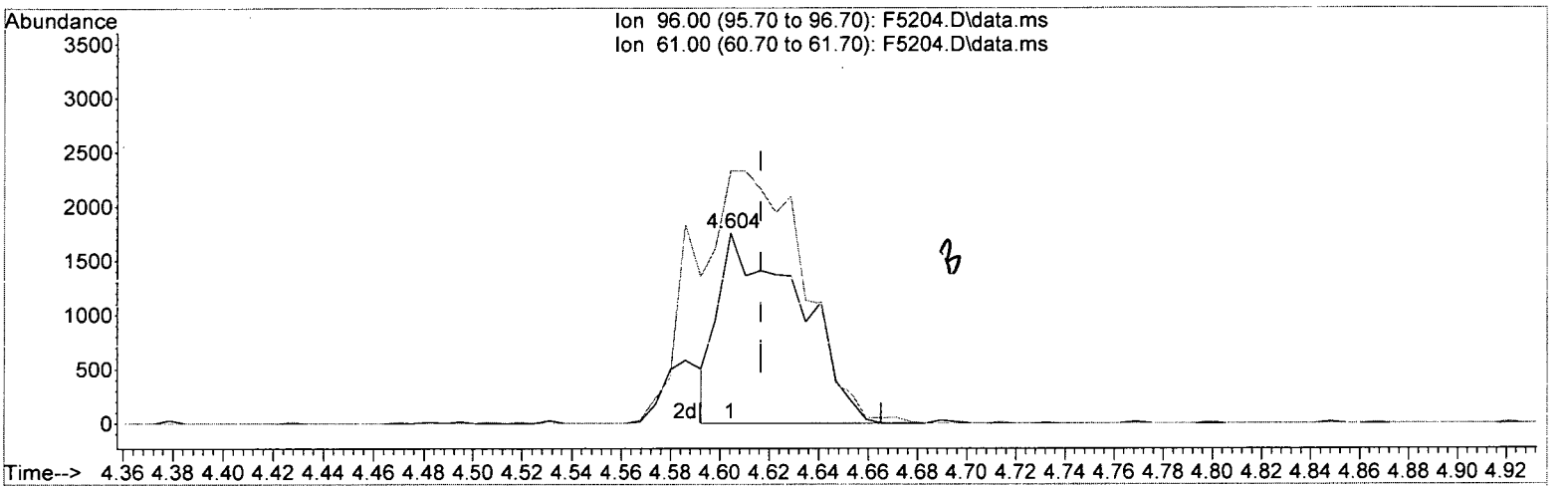
(#) = qualifier out of range (m) = manual integration (+) = signals summed

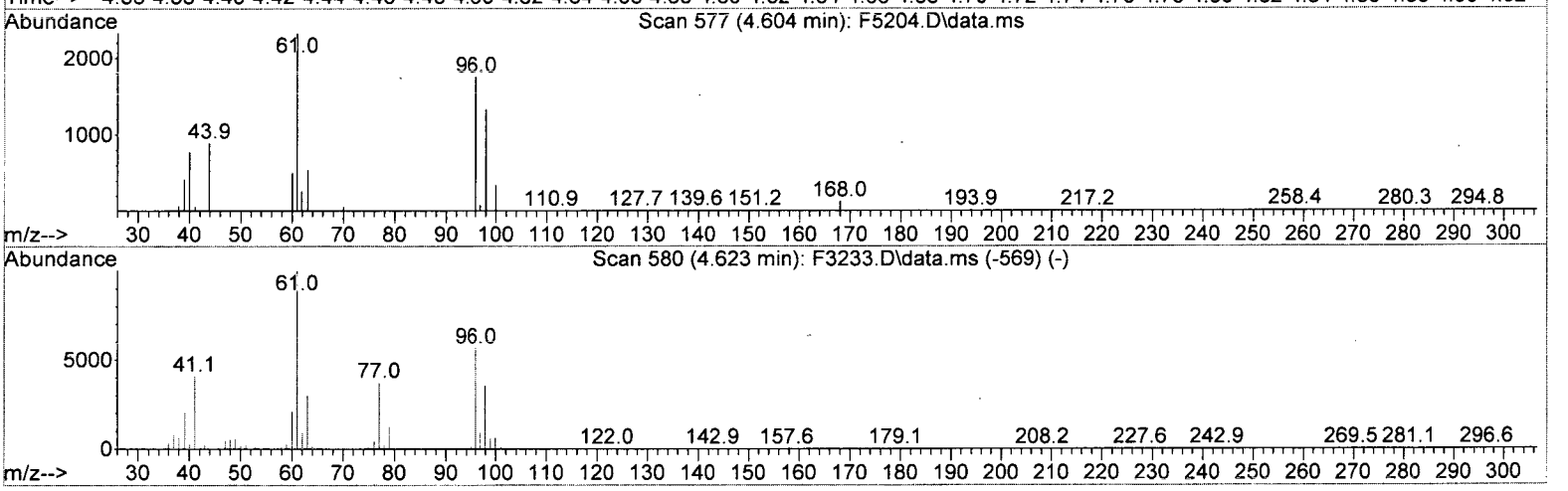
FJ 12/29/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 20:23:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration





TIC: F5204.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.604min (-0.012) 0.63 ug/L

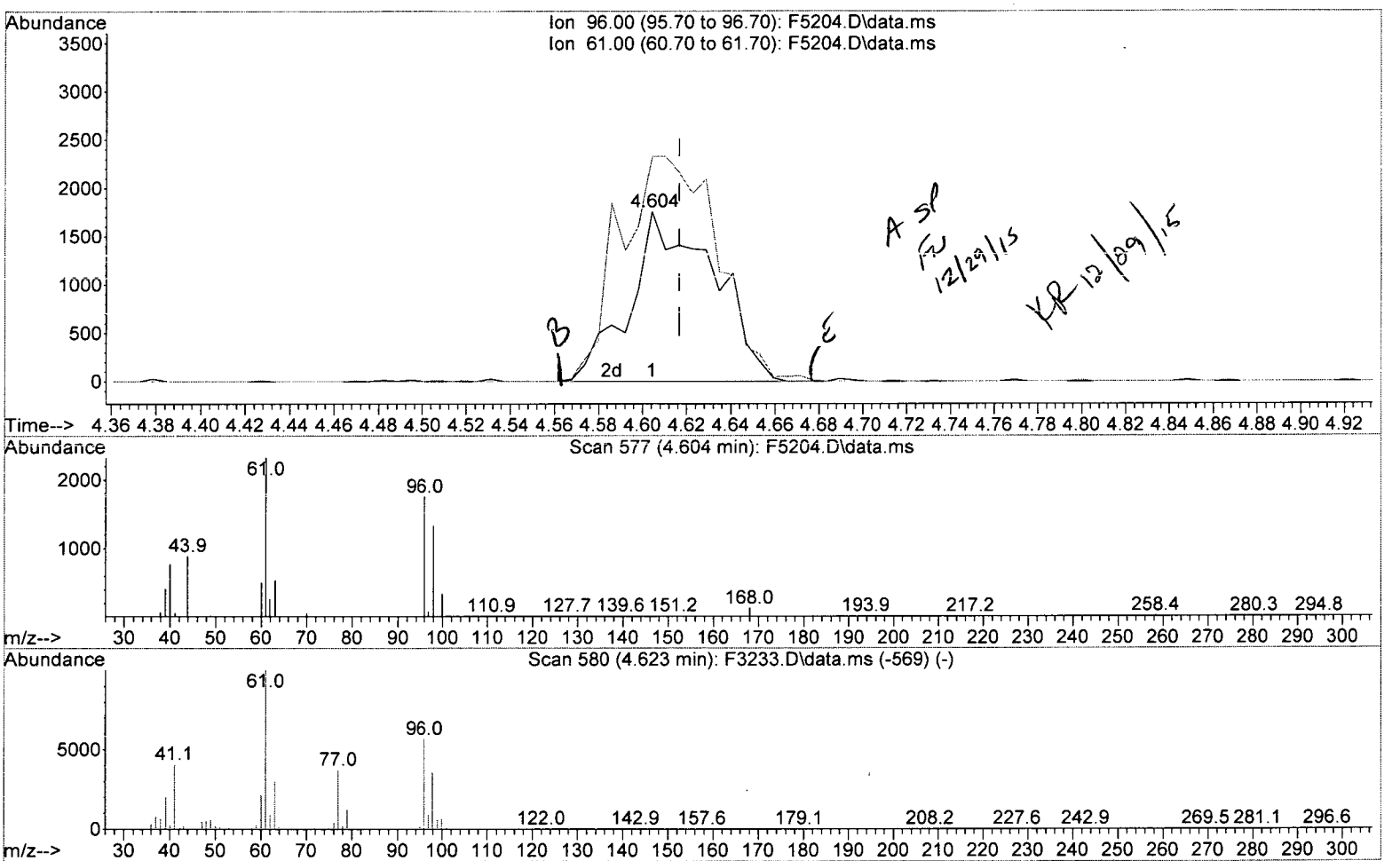
response 3977

Ion	Exp%	Act%
96.00	100	100
61.00	177.00	132.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 20:23:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5204.D\data.ms

(33) cis-1,2-Dichloroethene (P)

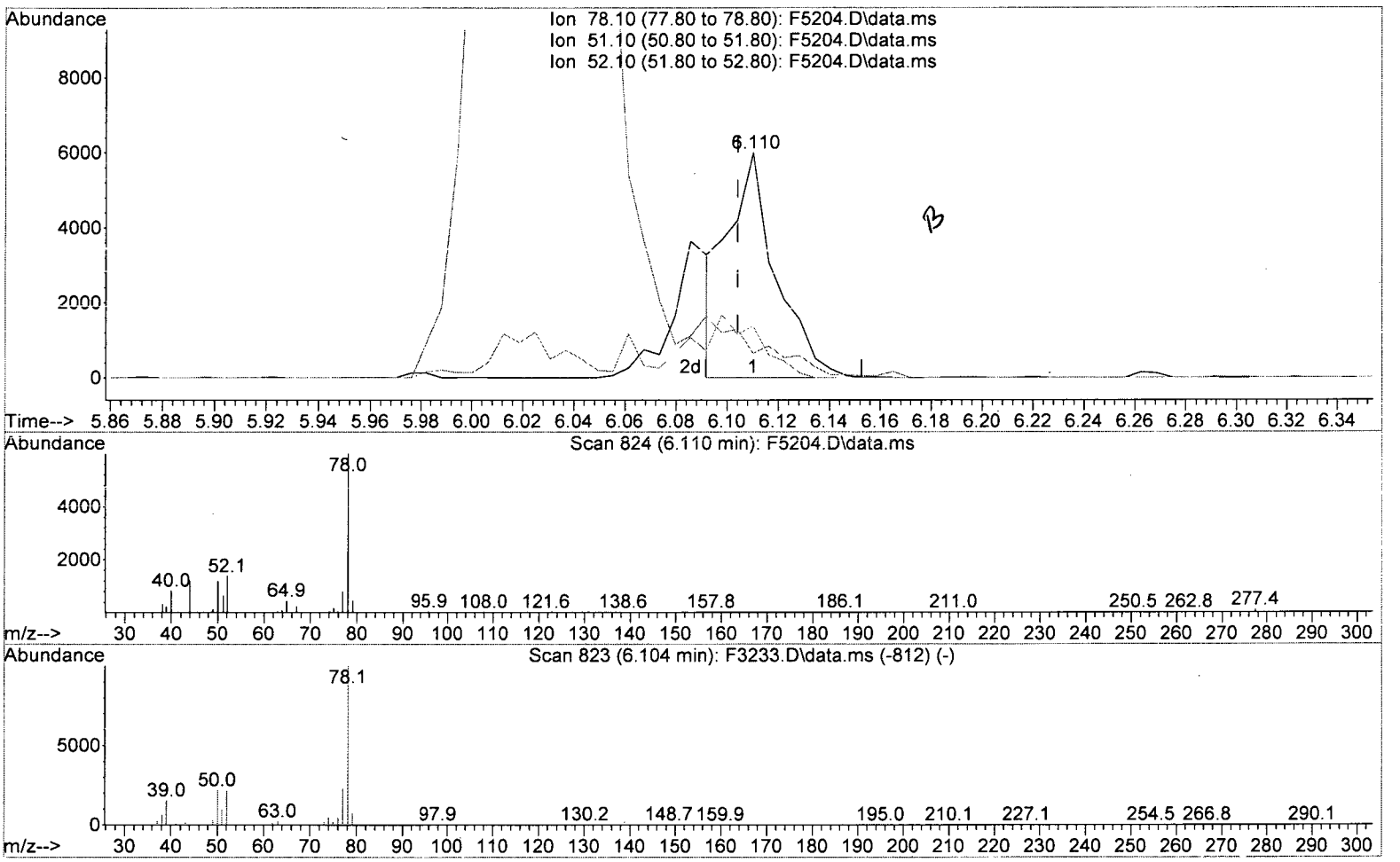
4.604min (-0.012) 0.73 ug/L m

response 4623

Ion	Exp%	Act%
96.00	100	100
61.00	177.00	132.50#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 20:23:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5204.D\data.ms

(47) Benzene (P)

6.110min (+0.006) 0.31 ug/L

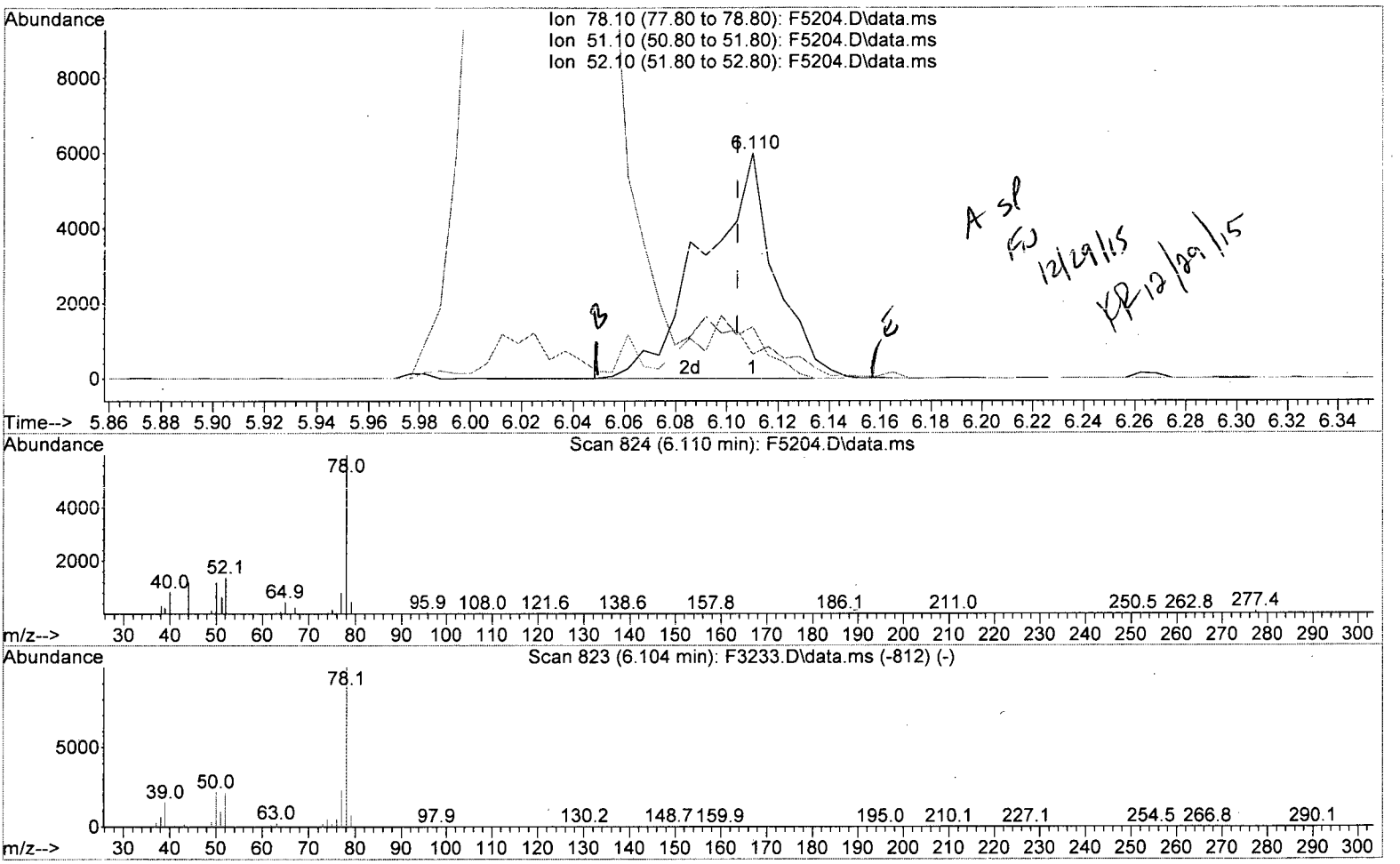
response 7795

Ion	Exp%	Act%
78.10	100	100
51.10	23.00	10.74
52.10	21.60	22.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 21 20:23:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5204.D\data.ms

(47) Benzene (P)

6.110min (+0.006) 0.47 ug/L m

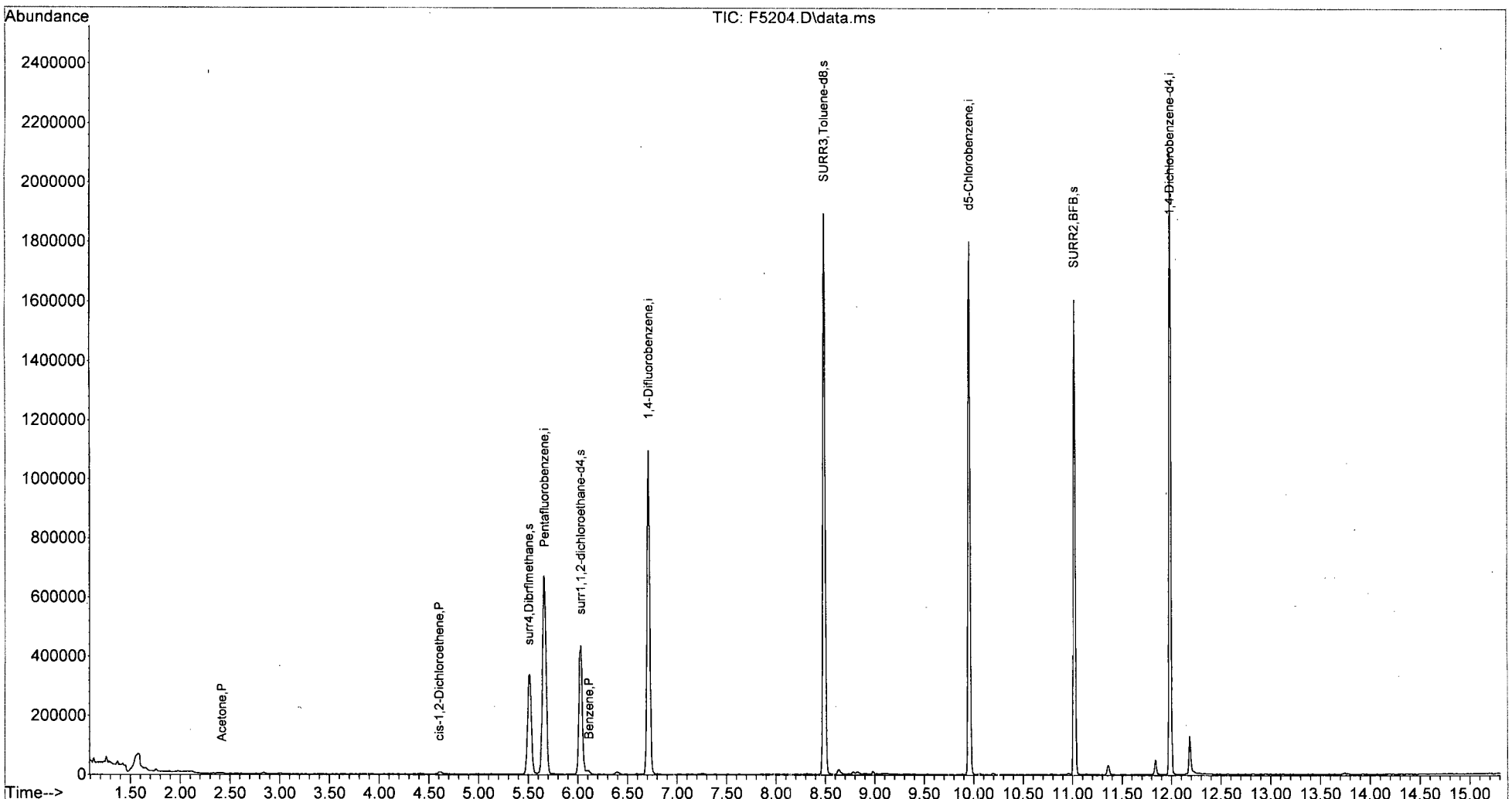
response 11534

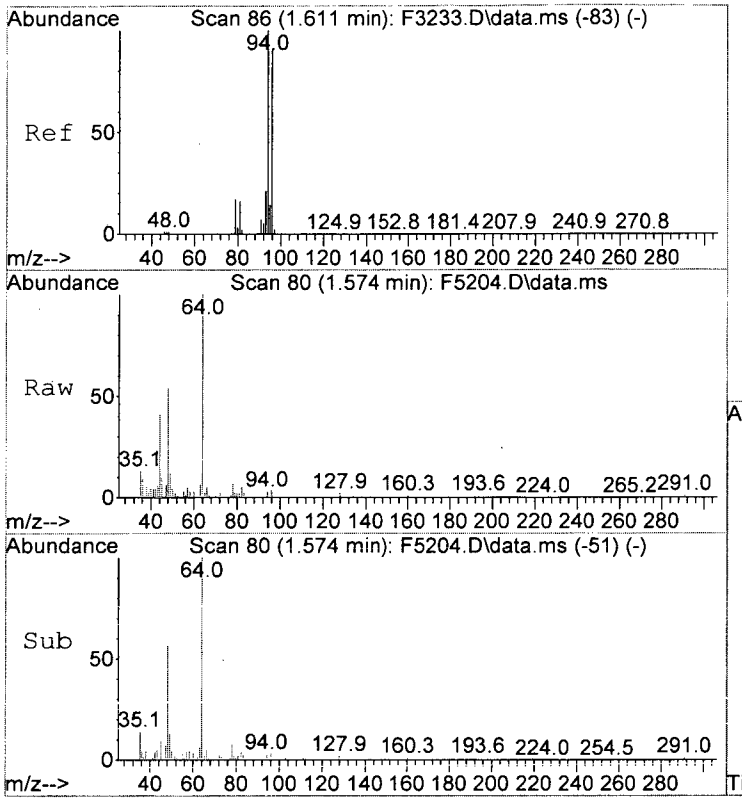
Ion	Exp%	Act%
78.10	100	100
51.10	23.00	10.74
52.10	21.60	22.89
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5204.D
Acq On : 21 Dec 2015 8:08 pm
Operator : F. Naegler
Sample : R1510962-006|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 29 14:41:56 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

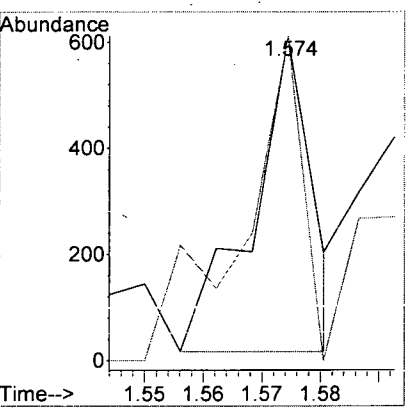


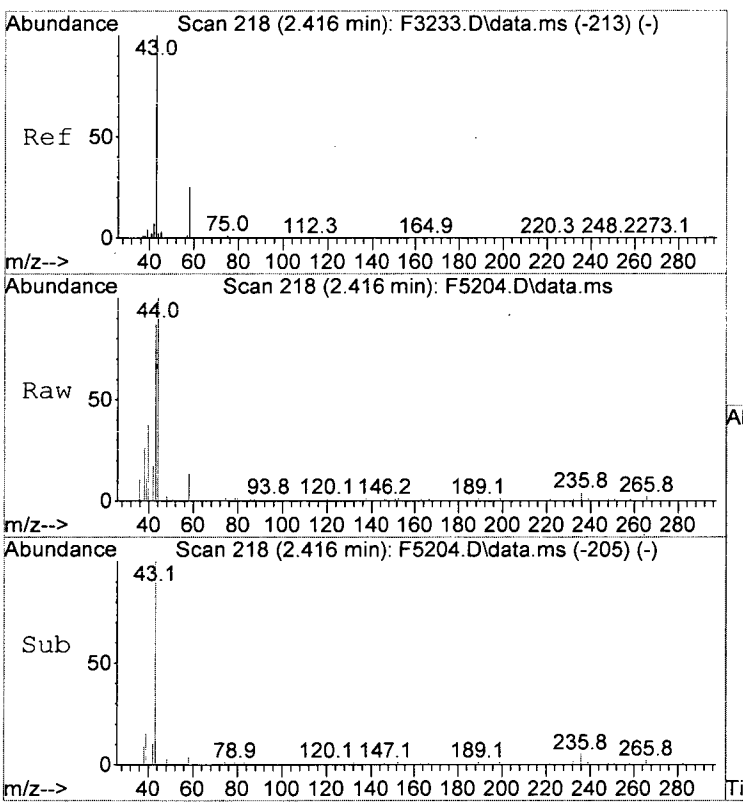


#5
Bromomethane
Concen: Below Cal
RT: 1.574 min Scan# 80
Delta R.T. -0.049 min
Lab File: F5204.D
Acq: 21 Dec 2015 8:08 pm

Tgt Ion: 94 Resp: 425

Ion	Ratio	Lower	Upper
94	100		
96	100.0	71.0	111.0

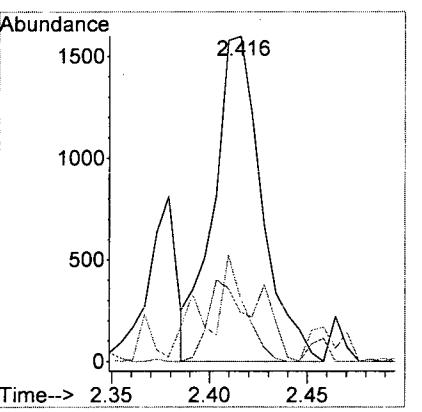


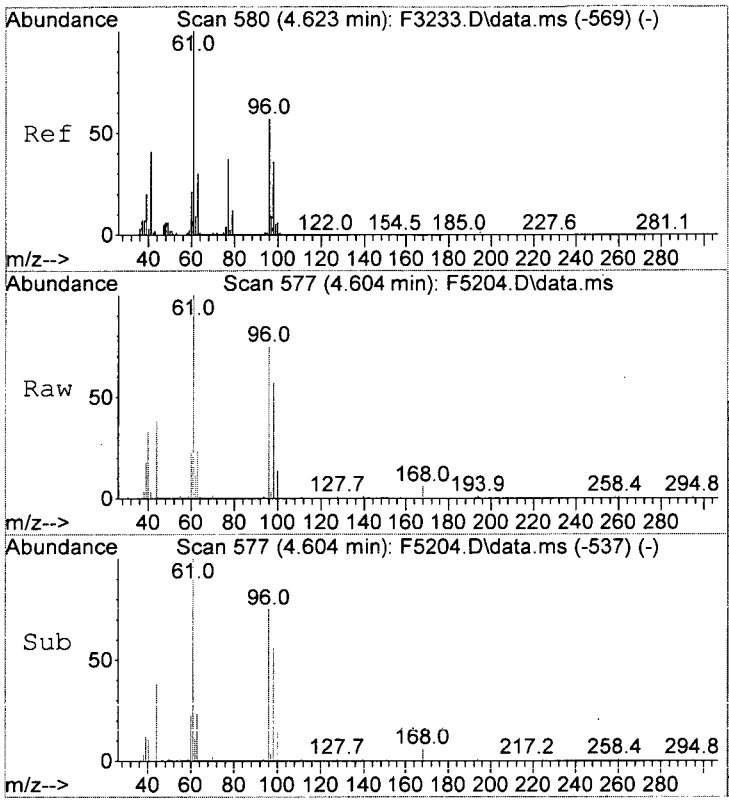


#15
Acetone
Concen: 0.48 ug/L
RT: 2.416 min Scan# 218
Delta R.T. 0.006 min
Lab File: F5204.D
Acq: 21 Dec 2015 8:08 pm

Tgt Ion: 43 Resp: 2741

Ion	Ratio	Lower	Upper
43	100		
58	15.1	4.3	44.3
42	19.3	0.0	27.3

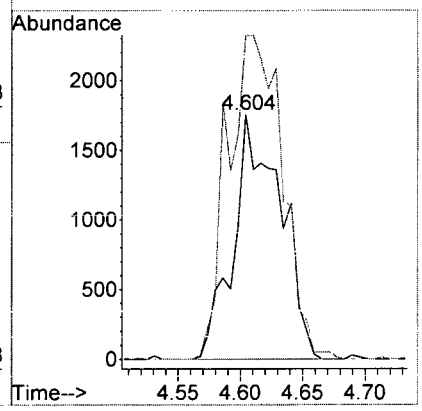


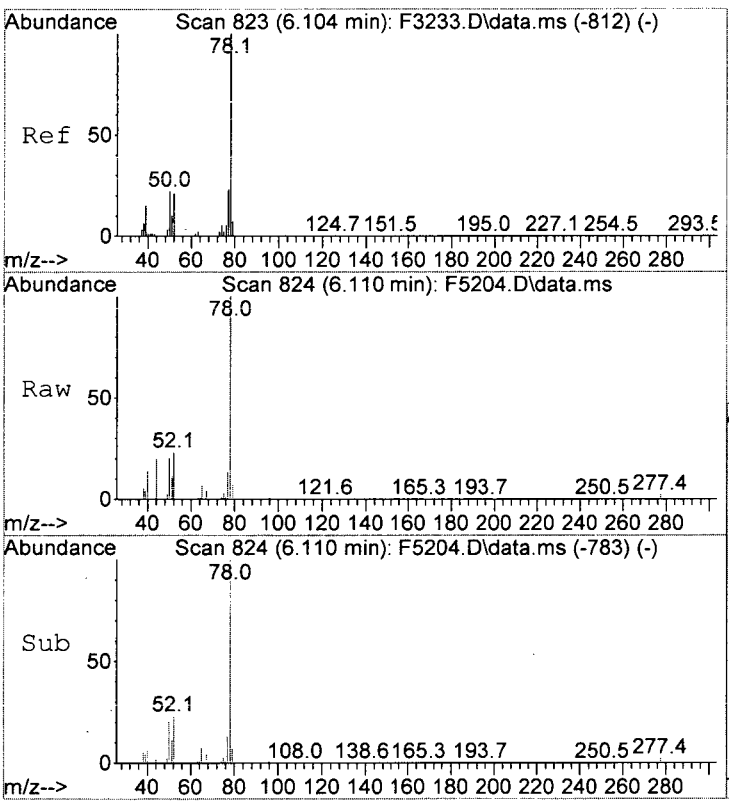


#33
cis-1,2-Dichloroethene
Concen: 0.73 ug/L m
RT: 4.604 min Scan# 577
Delta R.T. -0.012 min
Lab File: F5204.D
Acq: 21 Dec 2015 8:08 pm

Tgt Ion: 96 Resp: 4623

Ion	Ratio	Lower	Upper
96	100		
61	132.5	157.0	197.0#

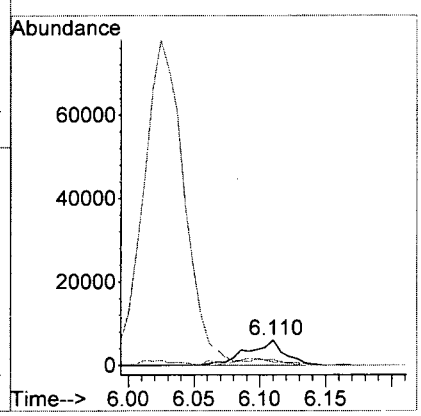




#47
Benzene
Concen: 0.47 ug/L m
RT: 6.110 min Scan# 824
Delta R.T. 0.006 min
Lab File: F5204.D
Acq: 21 Dec 2015 8:08 pm

Tgt Ion: 78 Resp: 11534

Ion	Ratio	Lower	Upper
78	100		
51	10.7	3.0	43.0
52	22.9	1.6	41.6



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1235
Date Received: 12/16/15

Sample Name: MW-2R
Lab Code: R1510962-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:32		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:32		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:32		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:32		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 20:32		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:32		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:32		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:32		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:32		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:32		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:32		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:32		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:32		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:32		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:32		477252	
Benzene	**3.5**		1.0	0.20	1	NA	12/21/15 20:32		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:32		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:32		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:32		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:32		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:32		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:32		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:32		477252	
Cyclohexane	**6.3**		1.0	0.25	1	NA	12/21/15 20:32		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:32		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:32		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:32		477252	
Ethylbenzene	**1.9**		1.0	0.20	1	NA	12/21/15 20:32		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1235
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	MW-2R	**Units:**	µg/L
Lab Code:	R1510962-007	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.61**	J	1.0	0.20	1	NA	12/21/15 20:32		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:32		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:32		477252	
Methylcyclohexane	**2.3**		1.0	0.27	1	NA	12/21/15 20:32		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:32		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Trichloroethene (TCE)	**0.25**	J	1.0	0.22	1	NA	12/21/15 20:32		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
Vinyl Chloride	**26**		1.0	0.32	1	NA	12/21/15 20:32		477252	
cis-1,2-Dichloroethene	**18**		1.0	0.30	1	NA	12/21/15 20:32		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:32		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 20:32		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 20:32		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:32		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 20:32	
Dibromofluoromethane	101	89-119	12/21/15 20:32	
Toluene-d8	102	87-121	12/21/15 20:32	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5205.D
Acq On : 21 Dec 2015 8:32 pm
Operator : F. Naegler
Sample : R1510962-007|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 29 14:45:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

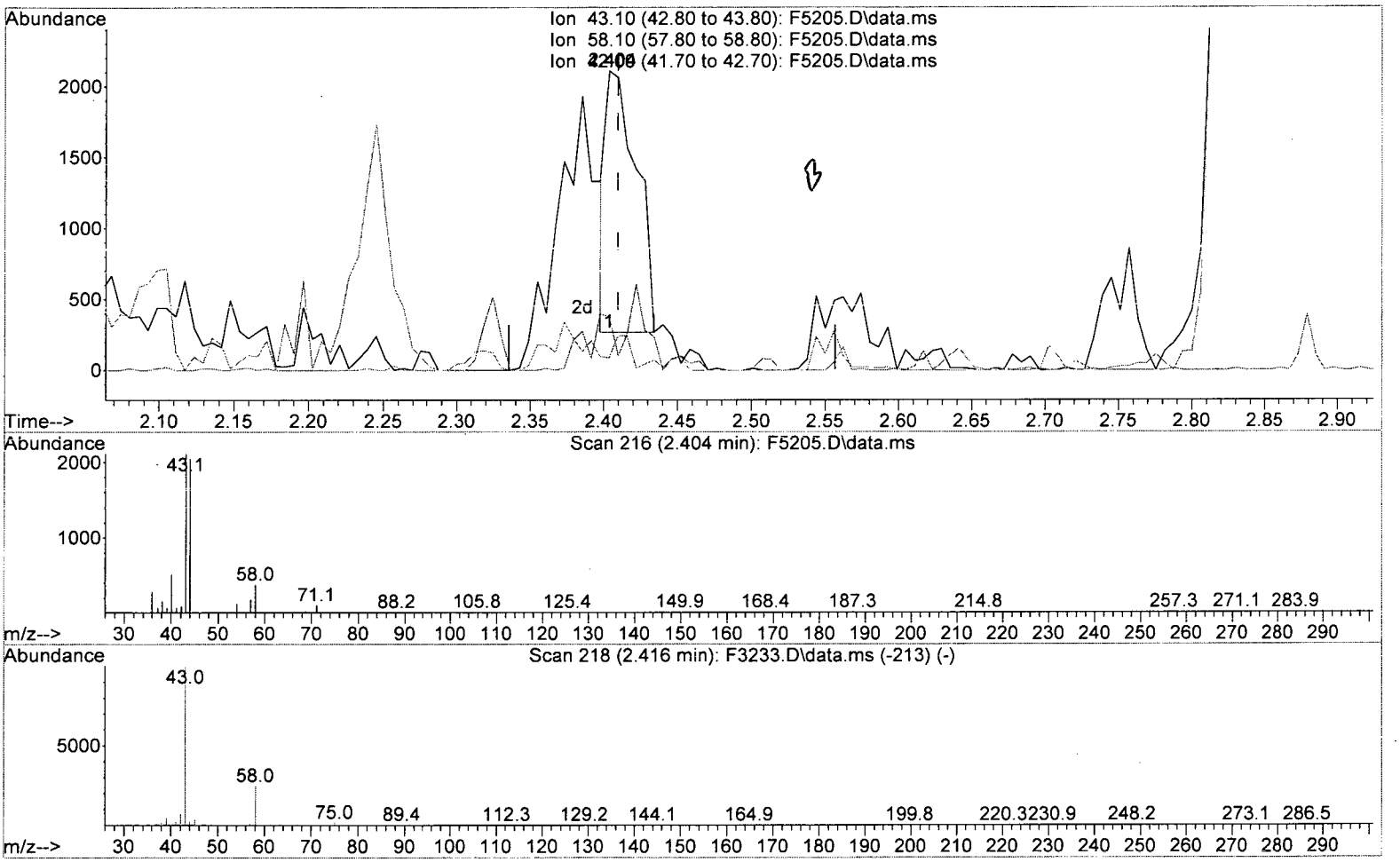
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	664793	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	975850	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	844907	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	430657	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	300922	50.27	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.54%			
46) surr1,1,2-dichloroetha...	6.025	65	367118	45.60	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.20%			
64) SURR3,Toluene-d8	8.488	98	1138843	51.22	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.44%			
69) SURR2,BFB	11.018	95	424184	47.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.54%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.373	62	293724	26.46	ug/L	95
15) Acetone	2.404	43	6942m	1.16	ug/L	
33) cis-1,2-Dichloroethene	4.611	96	118576	17.62	ug/L #	74
42) Cyclohexane	5.598	41	64857	6.26	ug/L	99
47) Benzene	6.104	78	92180	3.54	ug/L	97
53) Trichloroethene	7.037	130	1696	0.25	ug/L #	55
54) Methylcyclohexane	7.250	55	27071	2.33	ug/L	78
81) Ethylbenzene	10.103	106	16815	1.87	ug/L	92
87) Isopropylbenzene	10.896	105	18157	0.61	ug/L	95

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

FD 12/29/15

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5205.D
Acq On : 21 Dec 2015 8:32 pm
Operator : F. Naegler
Sample : R1510962-007|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 20:47:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5205.D\data.ms

(15) Acetone (P)

2.404min (-0.006) 0.44 ug/L

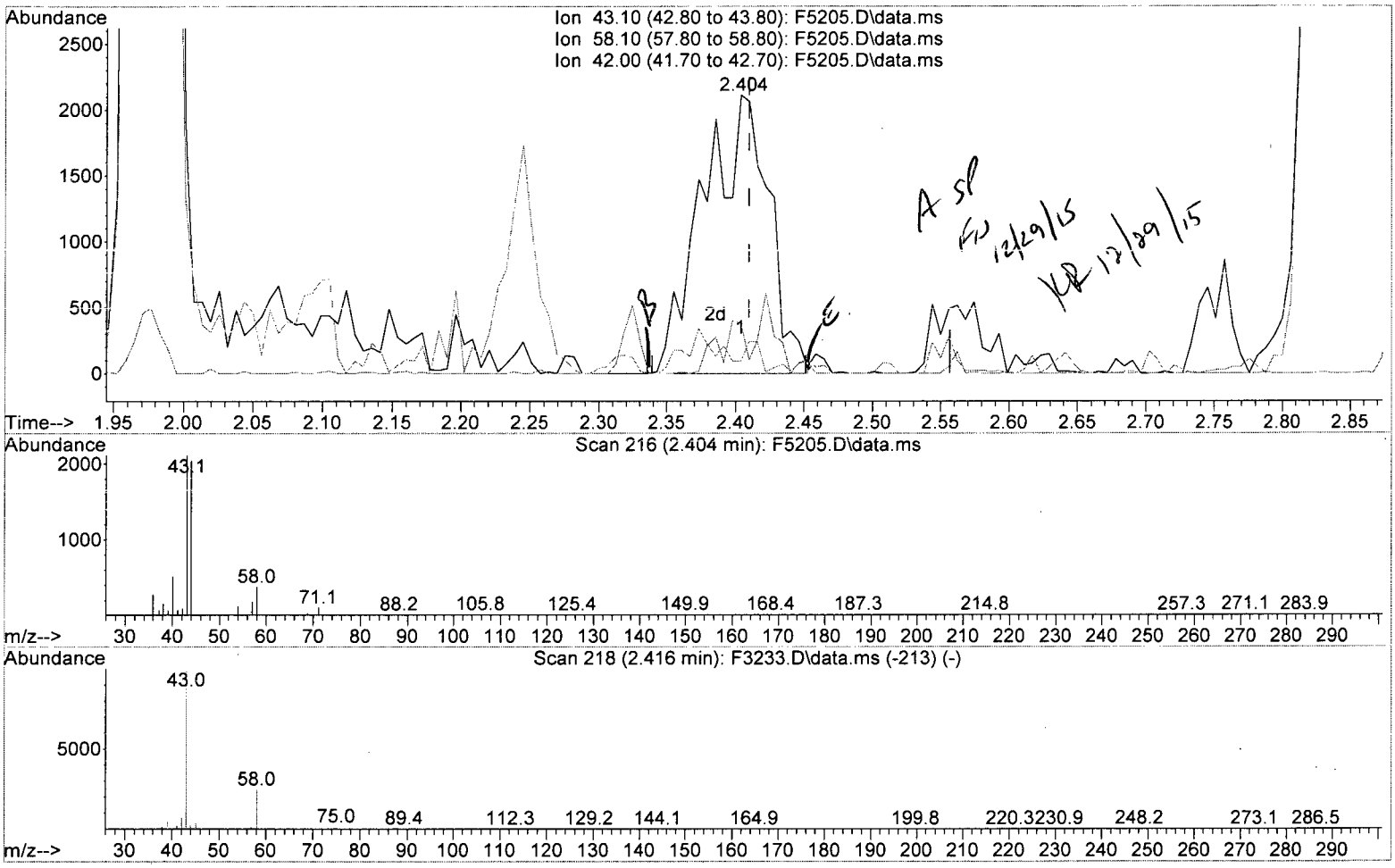
response 2616

Ion	Exp%	Act%
43.10	100	100
58.10	24.30	17.83
42.00	7.30	4.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5205.D
Acq On : 21 Dec 2015 8:32 pm
Operator : F. Naegler
Sample : R1510962-007|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 21 20:47:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5205.D\data.ms

(15) Acetone (P)

2.404min (-0.006) 1.16 ug/L m

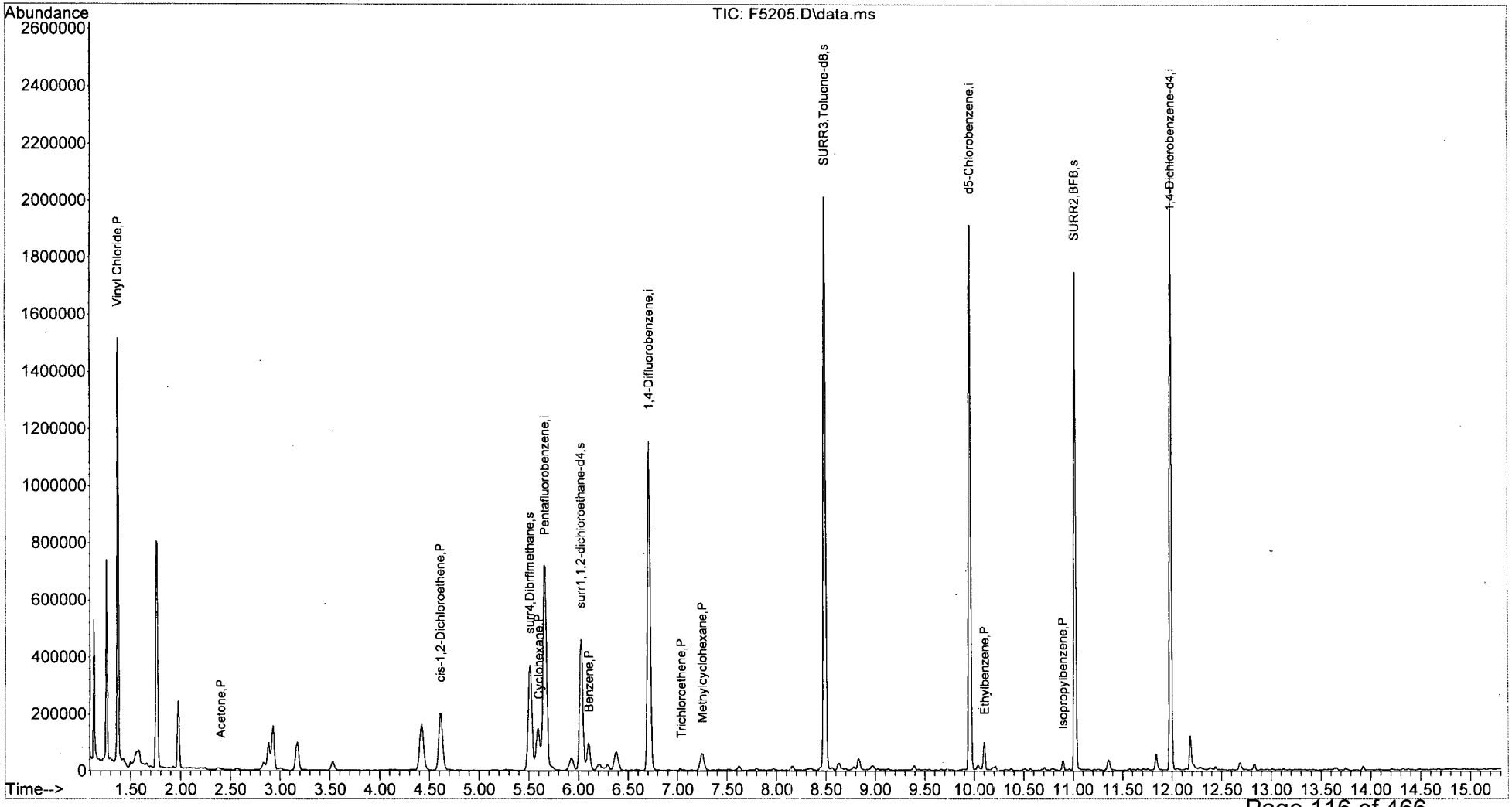
response 6942

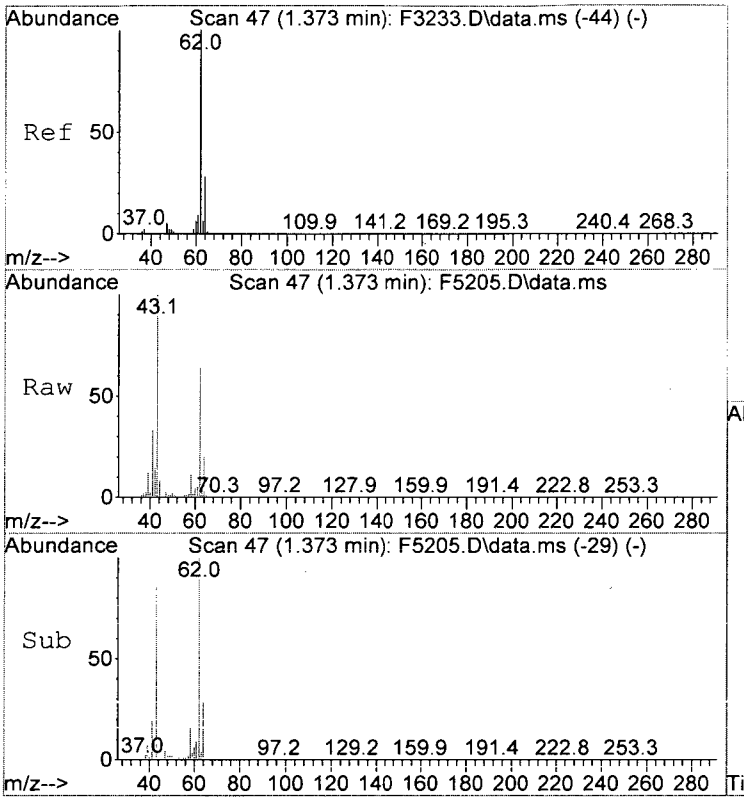
Ion	Exp%	Act%
43.10	100	100
58.10	24.30	17.83
42.00	7.30	4.17
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5205.D
Acq On : 21 Dec 2015 8:32 pm
Operator : F. Naegler
Sample : R1510962-007|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 29 14:45:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

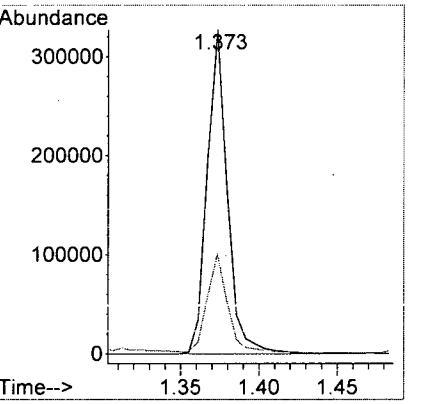


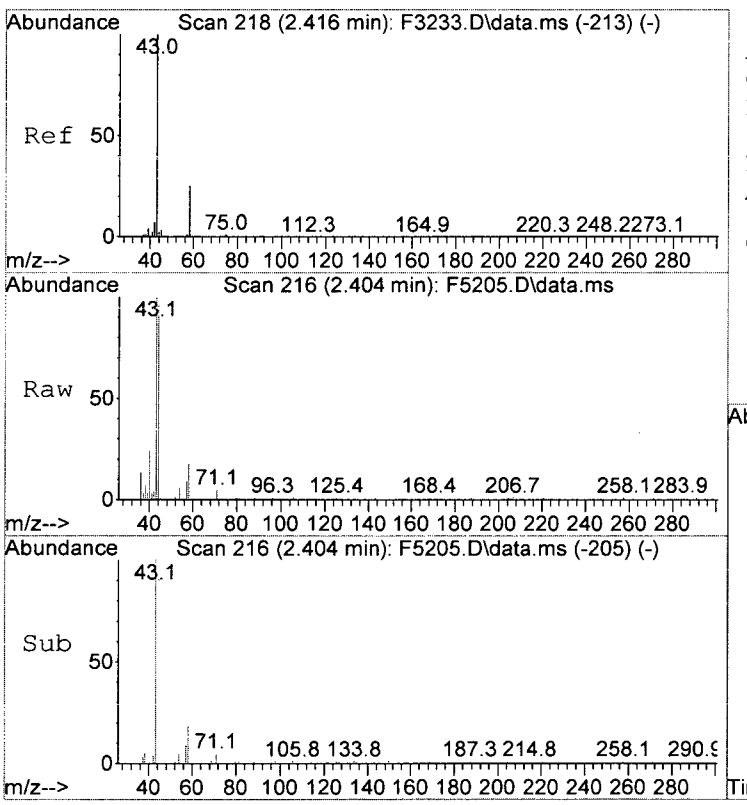


#4
Vinyl Chloride
Concen: 26.46 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 62 Resp: 293724

Ion	Ratio	Lower	Upper
62	100		
64	30.9	8.4	48.4

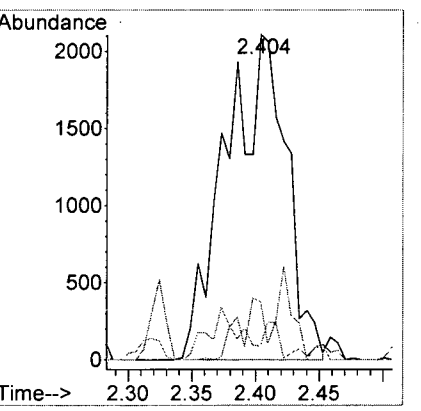


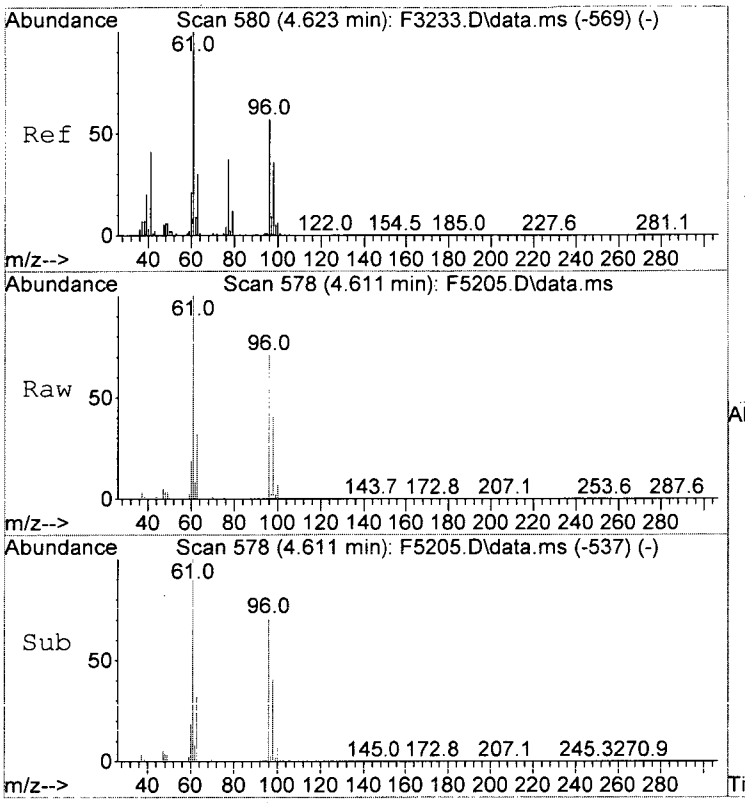


#15
Acetone
Concen: 1.16 ug/L m
RT: 2.404 min Scan# 216
Delta R.T. -0.006 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 43 Resp: 6942

Ion	Ratio	Lower	Upper
43	100		
58	17.8	4.3	44.3
42	4.2	0.0	27.3

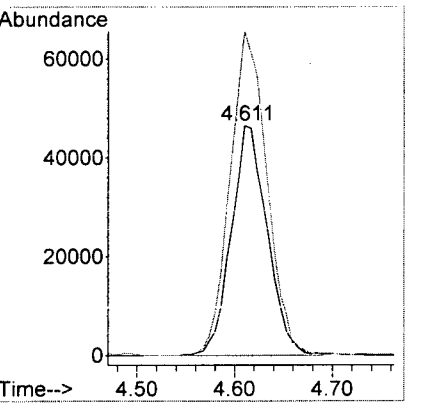


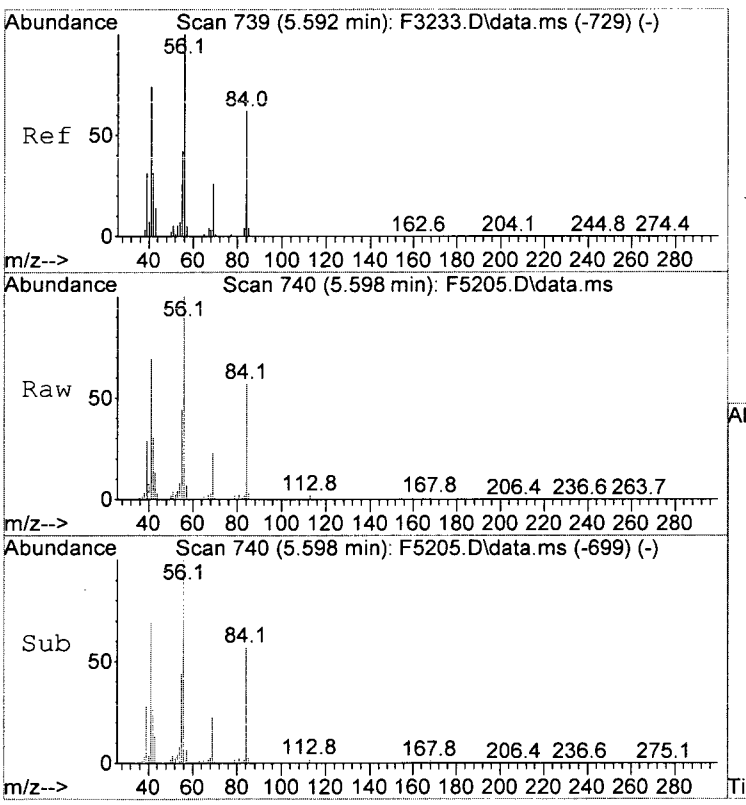


#33
cis-1,2-Dichloroethene
Concen: 17.62 ug/L
RT: 4.611 min Scan# 578
Delta R.T. -0.006 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 96 Resp: 118576

Ion	Ratio	Lower	Upper
96	100		
61	140.9	157.0	197.0#

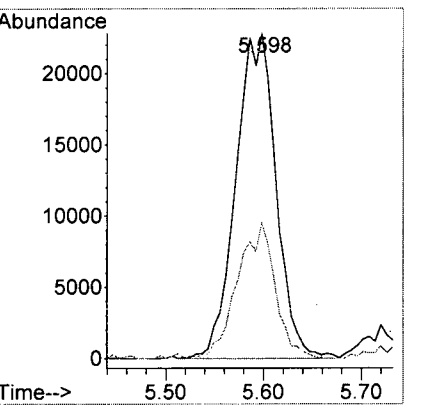


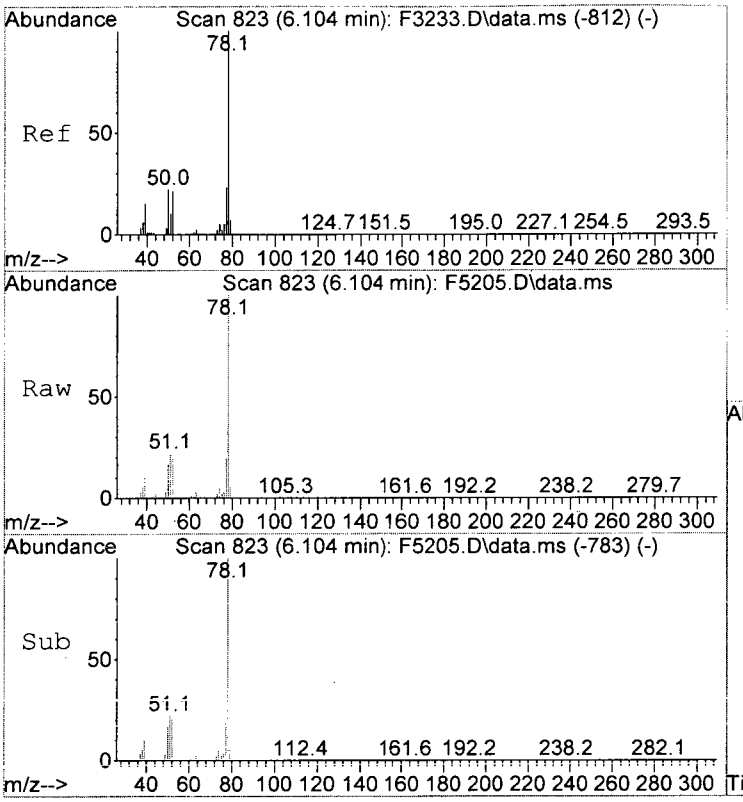


#42
Cyclohexane
Concen: 6.26 ug/L
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 41 Resp: 64857

Ion	Ratio	Lower	Upper
41	100		
39	41.7	22.1	62.1

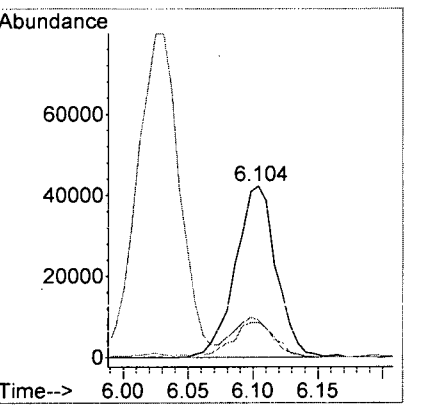


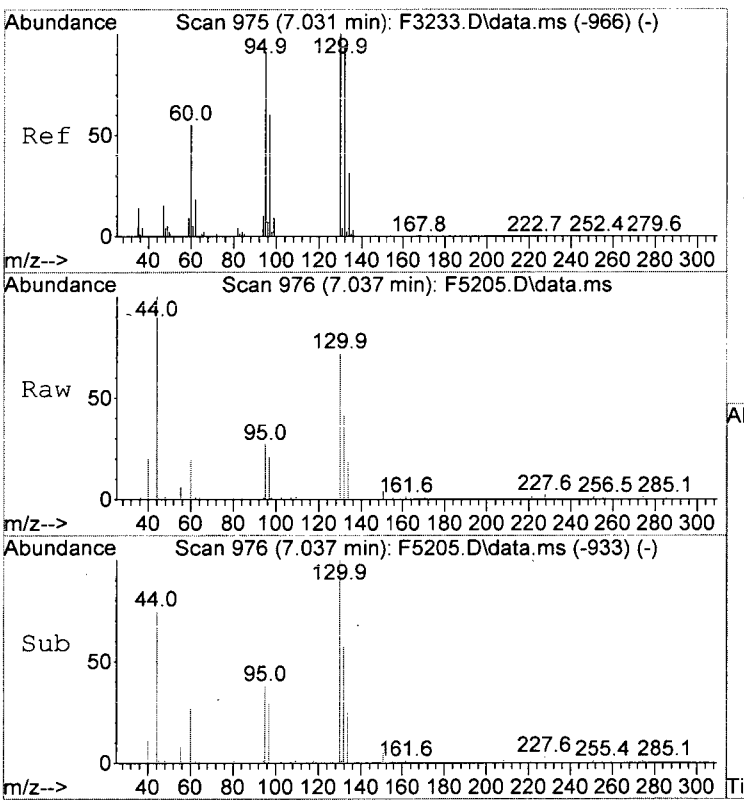


#47
Benzene
Concen: 3.54 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 78 Resp: 92180

Ion	Ratio	Lower	Upper
78	100		
51	21.7	3.0	43.0
52	20.1	1.6	41.6

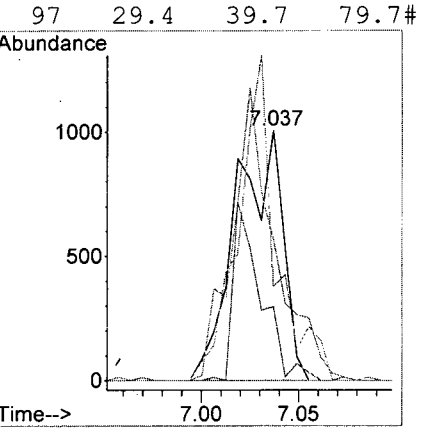


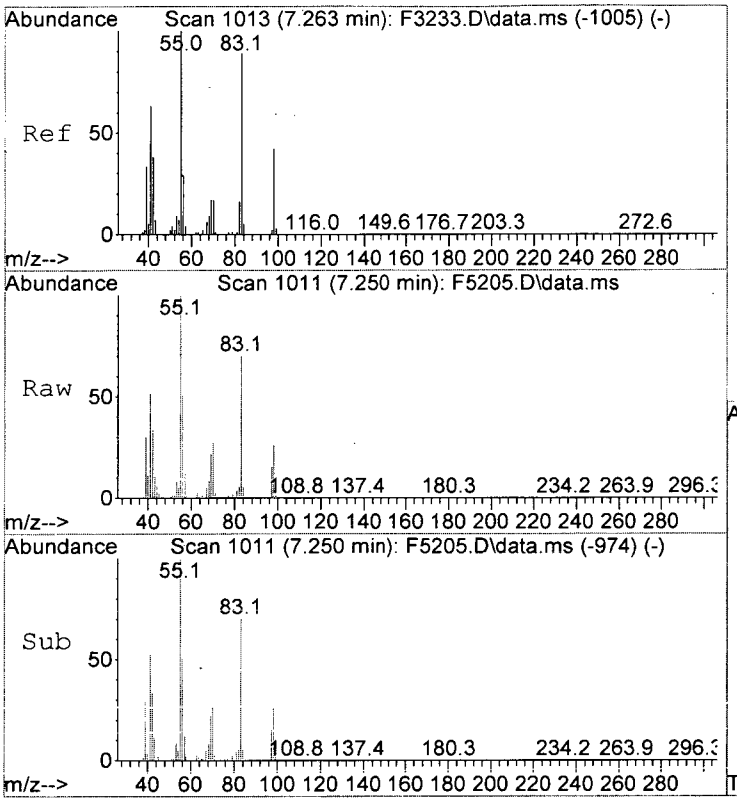


#53
Trichloroethene
Concen: 0.25 ug/L
RT: 7.037 min Scan# 976
Delta R.T. 0.012 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion:130 Resp: 1696

Ion	Ratio	Lower	Upper
130	100		
132	56.8	74.1	114.1#
95	37.8	70.9	110.9#
97	29.4	39.7	79.7#

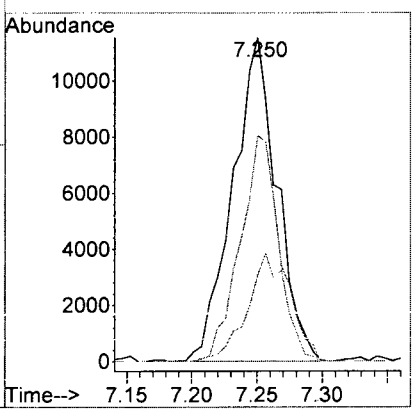


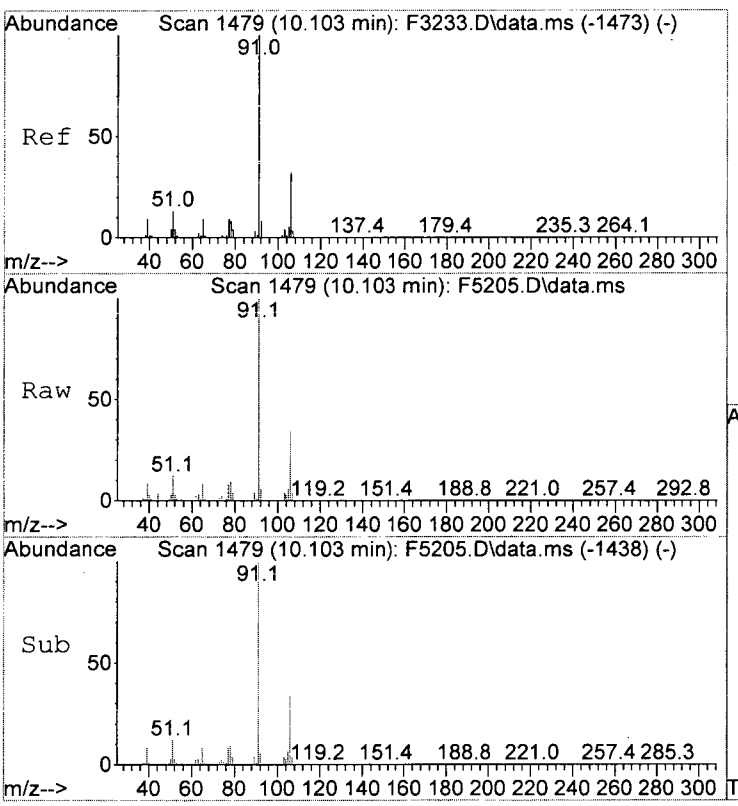


#54
Methylcyclohexane
Concen: 2.33 ug/L
RT: 7.250 min Scan# 1011
Delta R.T. -0.012 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion: 55 Resp: 27071

Ion	Ratio	Lower	Upper
55	100		
83	69.8	69.2	109.2
98	26.4	22.1	62.1

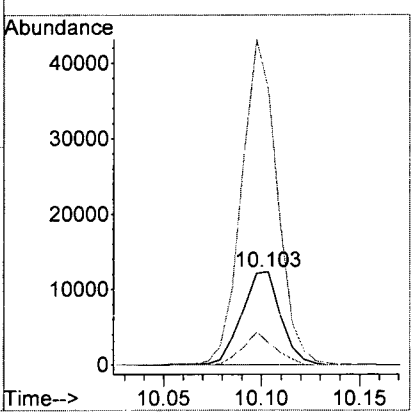


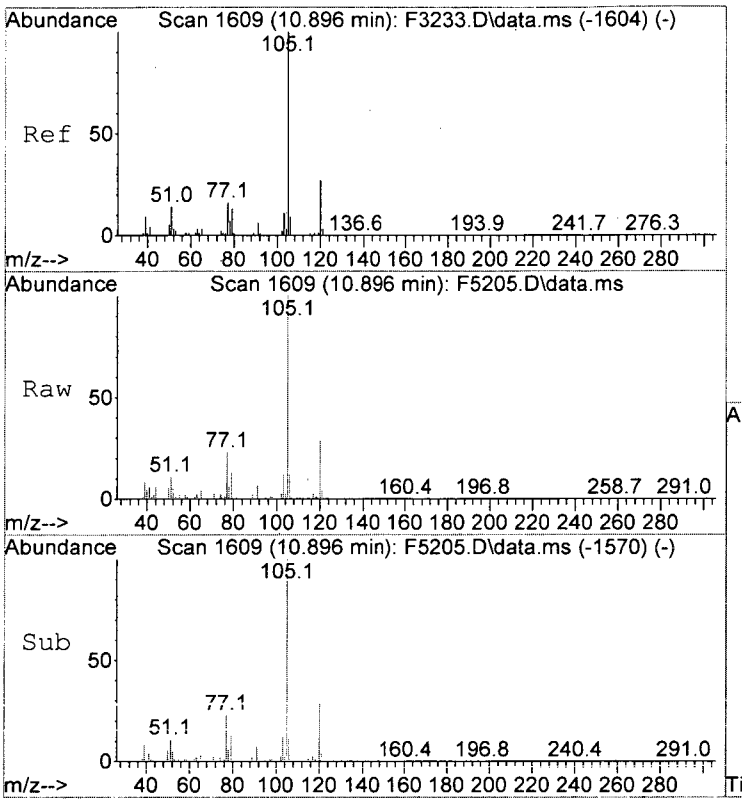


#81
Ethylbenzene
Concen: 1.87 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion:106 Resp: 16815

Ion	Ratio	Lower	Upper
106	100		
91	296.0	292.1	332.1
65	23.9	9.7	49.7

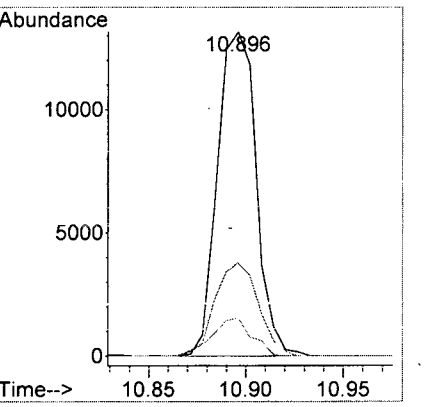




#87
Isopropylbenzene
Concen: 0.61 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F5205.D
Acq: 21 Dec 2015 8:32 pm

Tgt Ion:105 Resp: 18157

Ion	Ratio	Lower	Upper
105	100		
120	28.7	6.5	46.5
106	11.7	0.0	29.0



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-11R	**Units:**	µg/L
Lab Code:	R1510962-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 20:57		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 20:57		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 20:57		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:57		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,1-Dichloroethene (1,1-DCE)	**4.6**		1.0	0.57	1	NA	12/21/15 20:57		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 20:57		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 20:57		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 20:57		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 20:57		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 20:57		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 20:57		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 20:57		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 20:57		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 20:57		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 20:57		477252	
Benzene	**2.5**		1.0	0.20	1	NA	12/21/15 20:57		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:57		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 20:57		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 20:57		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 20:57		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 20:57		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 20:57		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 20:57		477252	
Cyclohexane	**16**		1.0	0.25	1	NA	12/21/15 20:57		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 20:57		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 20:57		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 20:57		477252	
Ethylbenzene	**2.4**		1.0	0.20	1	NA	12/21/15 20:57		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1310
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	EX-MW-11R	**Units:**	µg/L
Lab Code:	R1510962-008	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.68**	J	1.0	0.20	1	NA	12/21/15 20:57		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 20:57		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 20:57		477252	
Methylcyclohexane	**15**		1.0	0.27	1	NA	12/21/15 20:57		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 20:57		477252	
Toluene	**1.7**		1.0	0.20	1	NA	12/21/15 20:57		477252	
Trichloroethene (TCE)	**36**		1.0	0.22	1	NA	12/21/15 20:57		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	
Vinyl Chloride	**520**	D	10	3.2	10	NA	12/22/15 19:49		477582	
cis-1,2-Dichloroethene	**990**	D	10	3.0	10	NA	12/22/15 19:49		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 20:57		477252	
m,p-Xylenes	**0.73**	J	2.0	0.33	1	NA	12/21/15 20:57		477252	
o-Xylene	**4.9**		1.0	0.20	1	NA	12/21/15 20:57		477252	
trans-1,2-Dichloroethene	**3.3**		1.0	0.33	1	NA	12/21/15 20:57		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 20:57		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 20:57	
Dibromofluoromethane	100	89-119	12/21/15 20:57	
Toluene-d8	102	87-121	12/21/15 20:57	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5206.D
Acq On : 21 Dec 2015 8:57 pm
Operator : F. Naegler
Sample : R1510962-008|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 14:50:33 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.659	168	650784	50.00	ug/L		0.00	
41) 1,4-Difluorobenzene	6.714	114	948528	50.00	ug/L		0.00	
70) d5-Chlorobenzene	9.957	117	829525	50.00	ug/L		0.00	
90) 1,4-Dichlorobenzene-d4	11.987	152	433067	50.00	ug/L		0.00	
System Monitoring Compounds								
43) surr4,Dibrflmethane	5.513	113	291174	50.04	ug/L		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.08%					
46) surr1,1,2-dichloroetha...	6.025	65	354812	45.34	ug/L		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.68%					
64) SURR3,Toluene-d8	8.488	98	1099874	50.89	ug/L		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.78%					
69) SURR2,BFB	11.018	95	412190	47.76	ug/L		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.52%					
Target Compounds							Qvalue	
4) Vinyl Chloride	1.373	62	4831298	444.57	ug/L		86	E
7) Freon 21	1.861	67	3588	0.29	ug/L		96	
13) 1,1-Diclethene	2.361	96	23783	4.60	ug/L	#	79	
15) Acetone	2.404	43	2897	0.49	ug/L		78	
26) trans-1,2-Dichloroethene	3.159	96	19206	3.28	ug/L		94	
33) cis-1,2-Dichloroethene	4.616	96	7409220	1124.90	ug/L	#	76	E
42) Cyclohexane	5.598	41	158179	15.70	ug/L		91	
47) Benzene	6.104	78	62417	2.47	ug/L		96	
51) n-Heptane	6.573	43	9673	0.72	ug/L		92	
53) Trichloroethene	7.031	130	236661	36.40	ug/L		98	
54) Methylcyclohexane	7.256	55	172320	15.23	ug/L		98	
65) Toluene	8.561	91	45064	1.74	ug/L		89	
81) Ethylbenzene	10.097	106	21360	2.42	ug/L	#	77	
82) (m+p)Xylene	10.213	106	8266	0.73	ug/L		97	
83) o-Xylene	10.567	106	54540	4.87	ug/L		91	
87) Isopropylbenzene	10.896	105	19957	0.68	ug/L		95	
94) n-Propylbenzene	11.249	91	18769	0.58	ug/L		96	

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

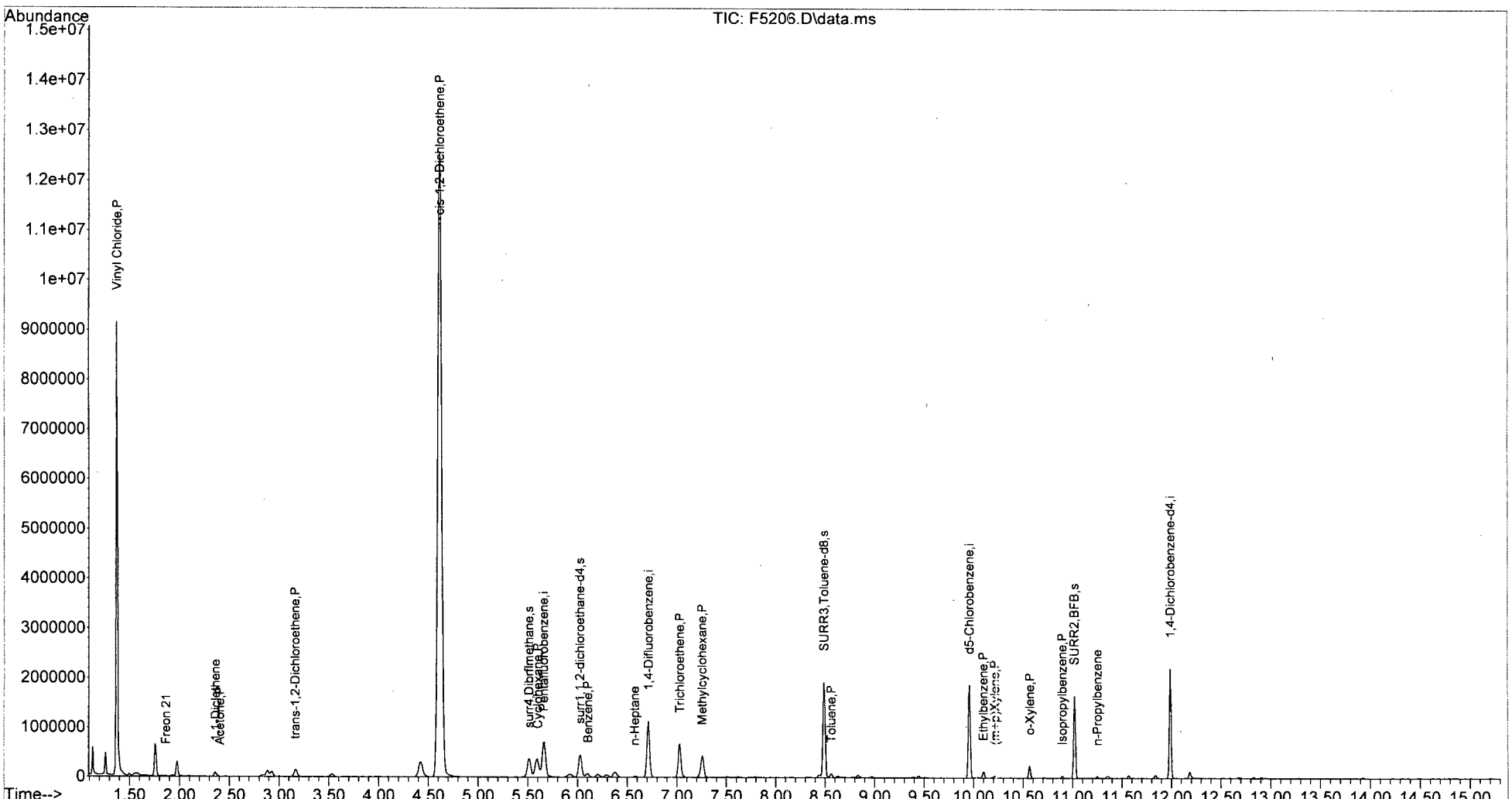
Reports Ppt 1/15

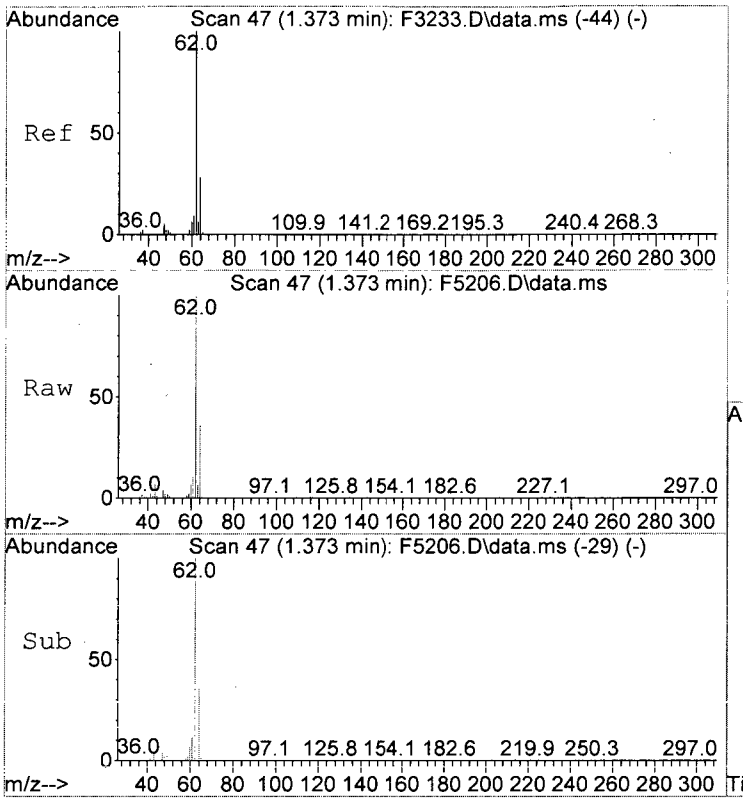
FP 12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5206.D
Acq On : 21 Dec 2015 8:57 pm
Operator : F. Naegler
Sample : R1510962-008|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 29 14:50:33 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

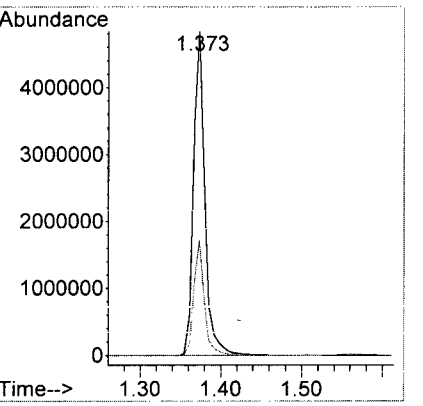


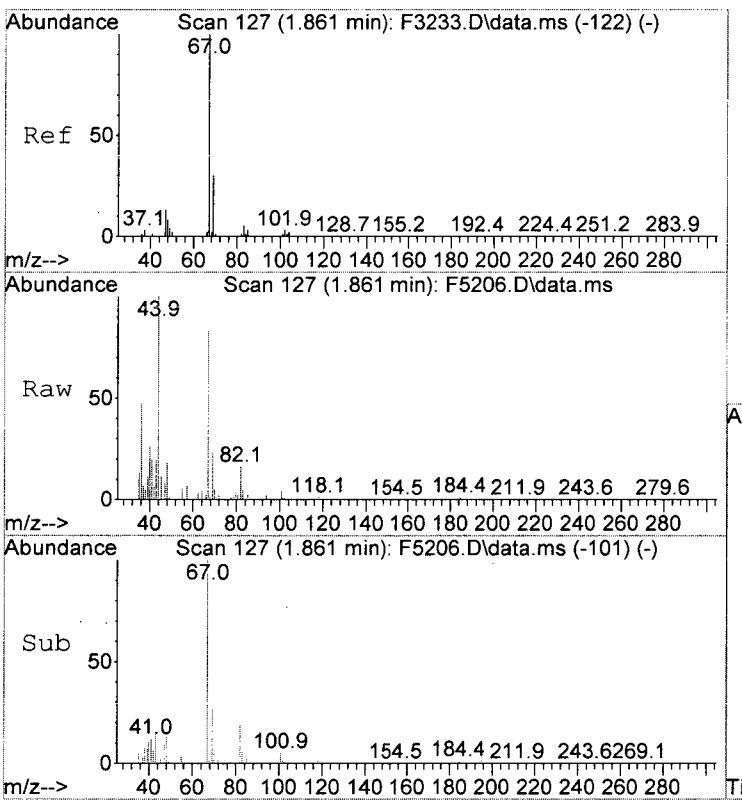


#4
Vinyl Chloride
Concen: 444.57 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 62 Resp: 4831298

Ion	Ratio	Lower	Upper
62	100		
64	35.7	8.4	48.4

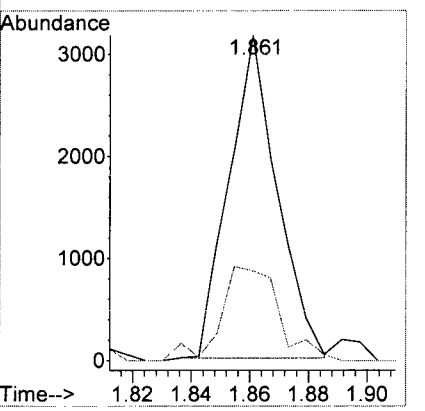


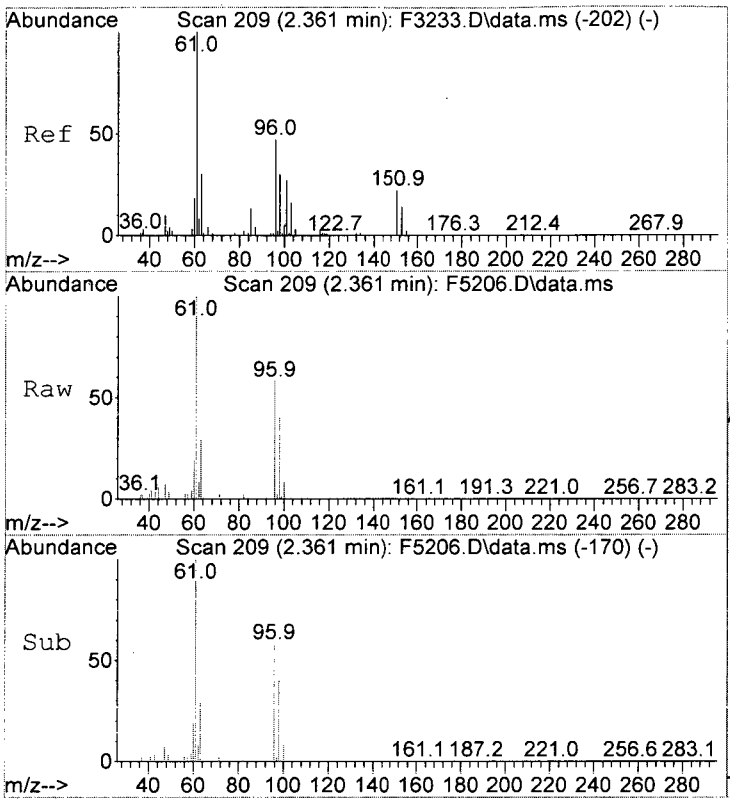


#7
Freon 21
Concen: 0.29 ug/L
RT: 1.861 min Scan# 127
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 67 Resp: 3588

Ion	Ratio	Lower	Upper
67	100		
69	27.5	9.8	49.8

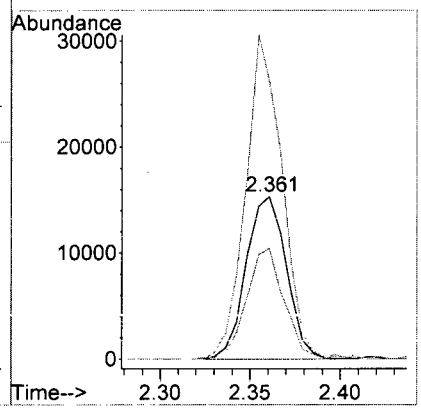


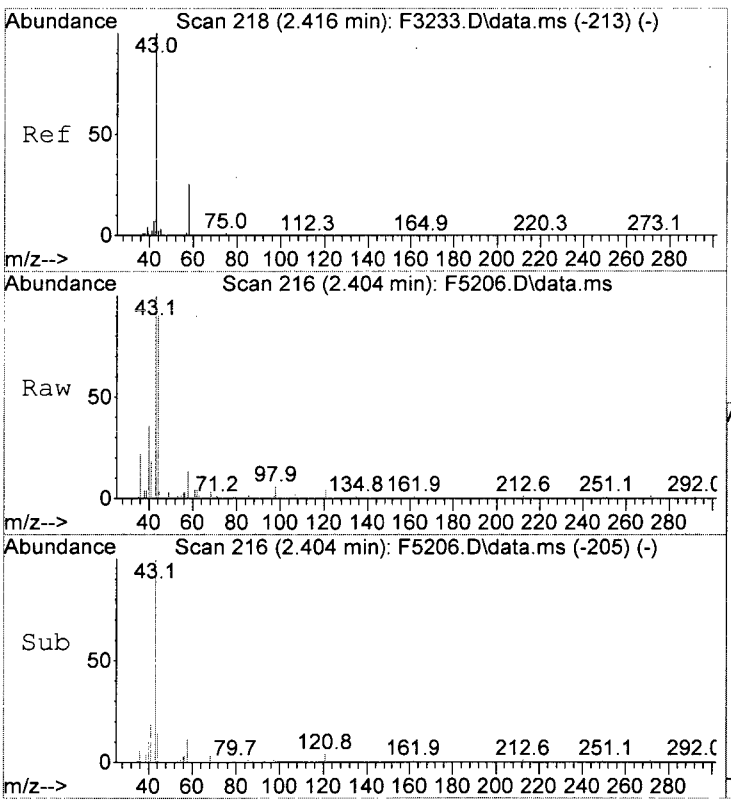


#13
1,1-Diclethene
Concen: 4.60 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 96 Resp: 23783

Ion	Ratio	Lower	Upper
96	100		
98	67.9	44.2	84.2
61	171.0	192.7	232.7#

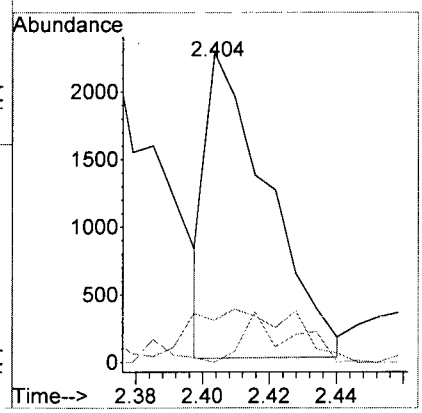


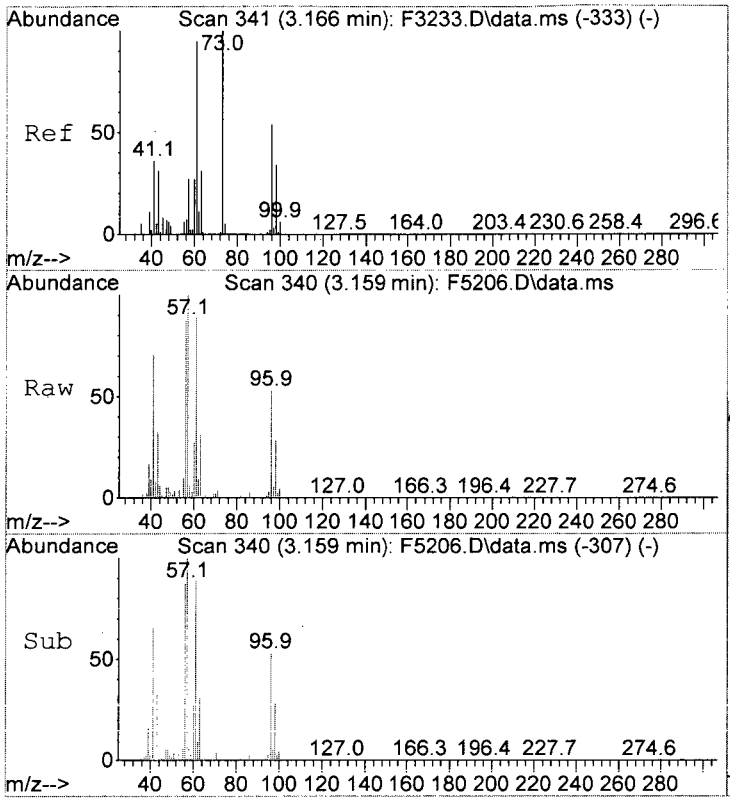


#15
Acetone
Concen: 0.49 ug/L
RT: 2.404 min Scan# 216
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 43 Resp: 2897

Ion	Ratio	Lower	Upper
43	100		
58	13.5	4.3	44.3
42	0.0	0.0	27.3

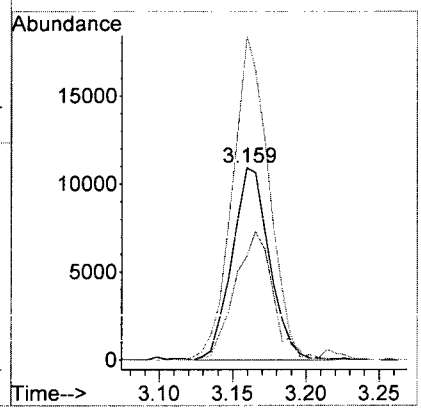


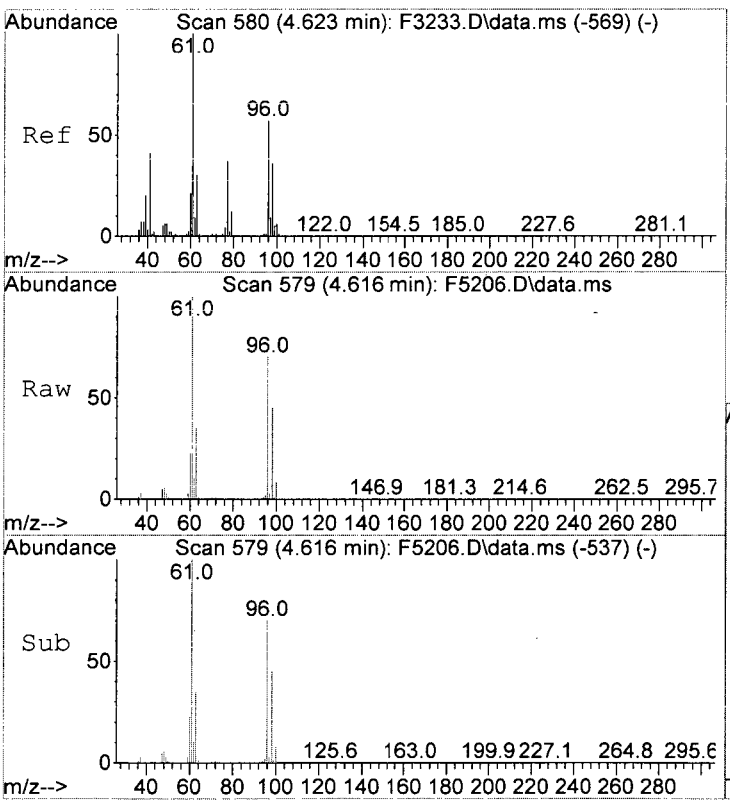


#26
trans-1,2-Dichloroethene
Concen: 3.28 ug/L
RT: 3.159 min Scan# 340
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 96 Resp: 19206

Ion	Ratio	Lower	Upper
96	100		
98	53.7	42.3	82.3
61	168.6	155.3	195.3

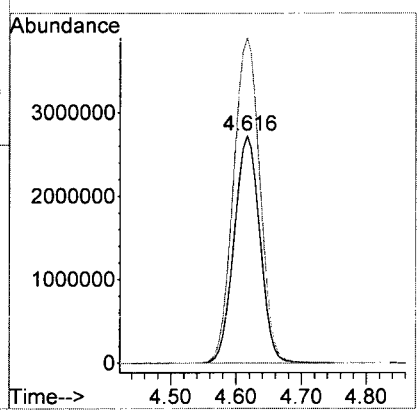


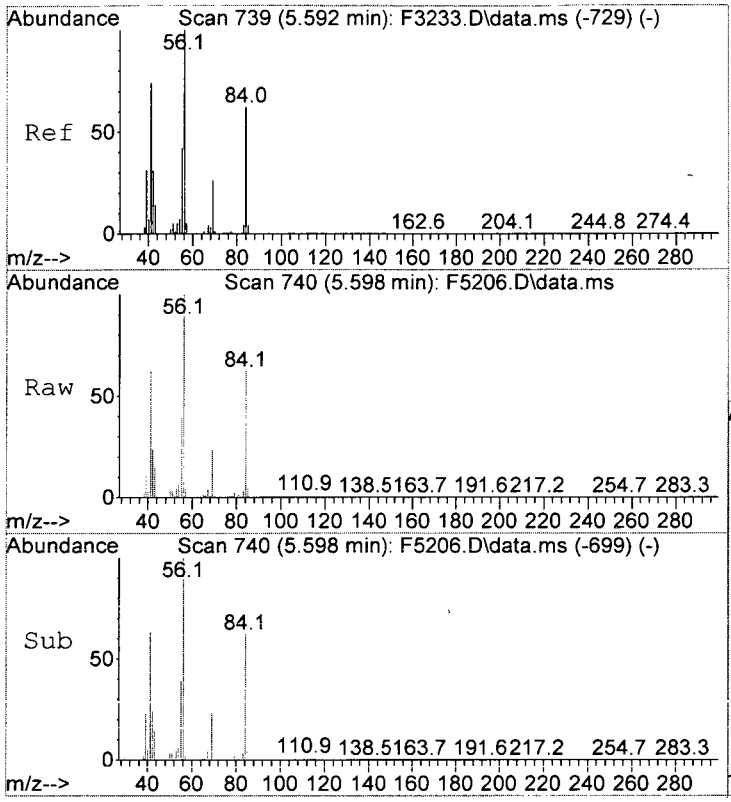


#33
cis-1,2-Dichloroethene
Concen: 1124.90 ug/L
RT: 4.616 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 96 Resp: 7409220

Ion	Ratio	Lower	Upper
96	100		
61	143.1	157.0	197.0#

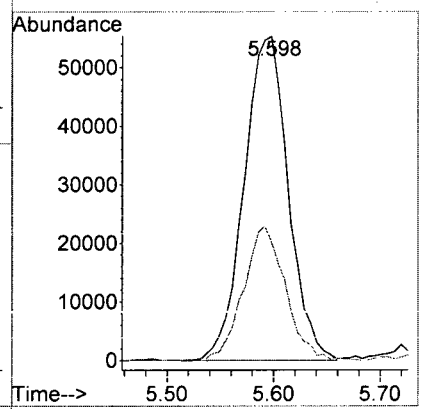


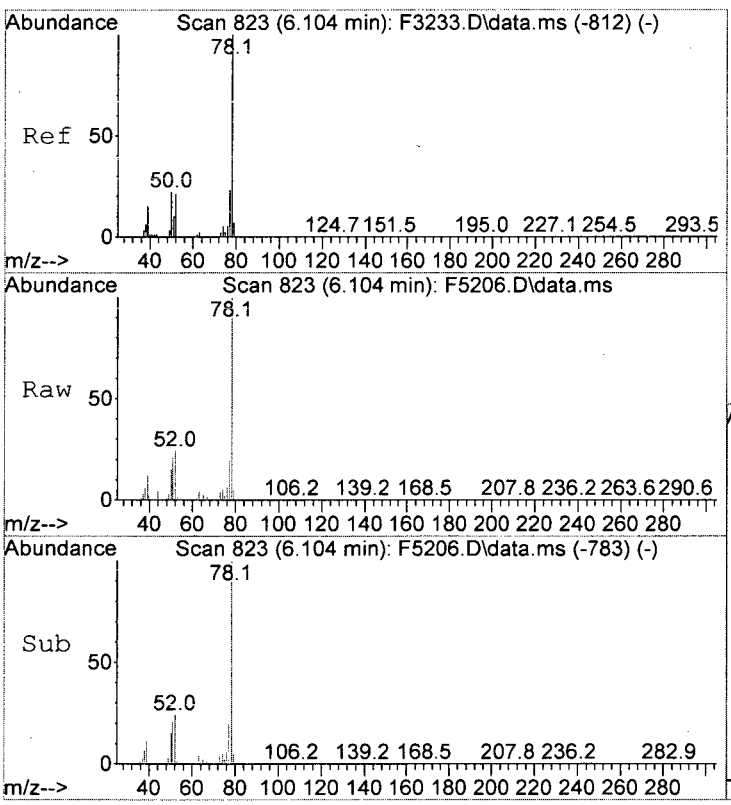


#42
Cyclohexane
Concen: 15.70 ug/L
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 41 Resp: 158179

Ion	Ratio	Lower	Upper
41	100		
39	36.6	22.1	62.1

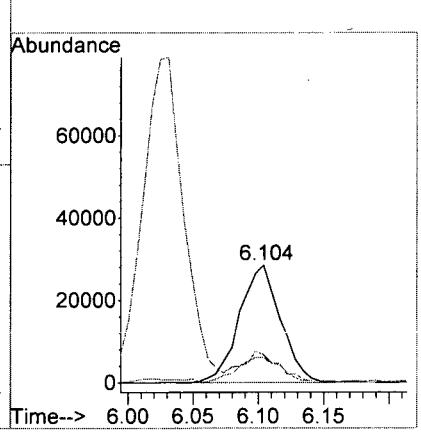


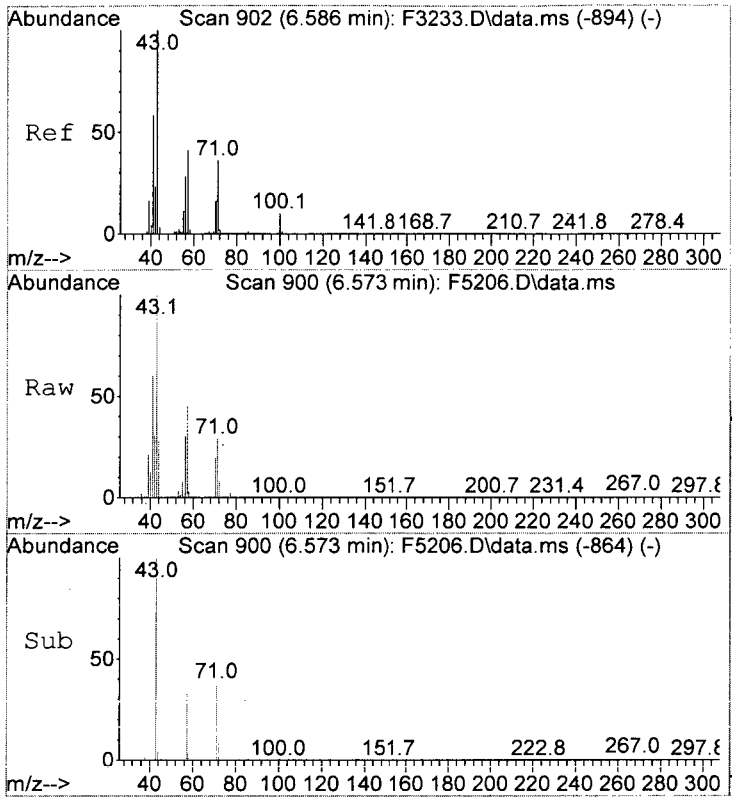


#47
Benzene
Concen: 2.47 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 78 Resp: 62417

Ion	Ratio	Lower	Upper
78	100		
51	21.1	3.0	43.0
52	23.7	1.6	41.6

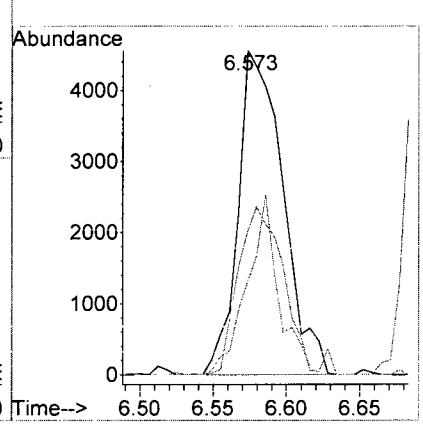


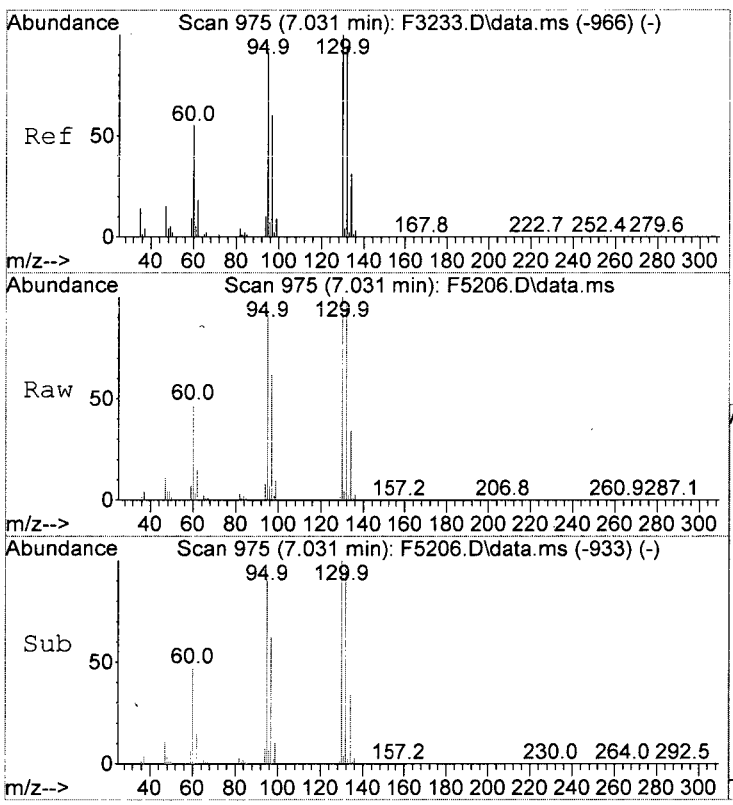


#51
n-Heptane
Concen: 0.72 ug/L
RT: 6.573 min Scan# 900
Delta R.T. -0.019 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 43 Resp: 9673

Ion	Ratio	Lower	Upper
43	100		
57	44.6	21.0	61.0
71	28.8	15.4	55.4

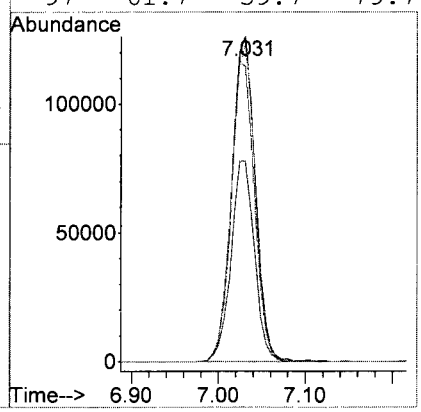


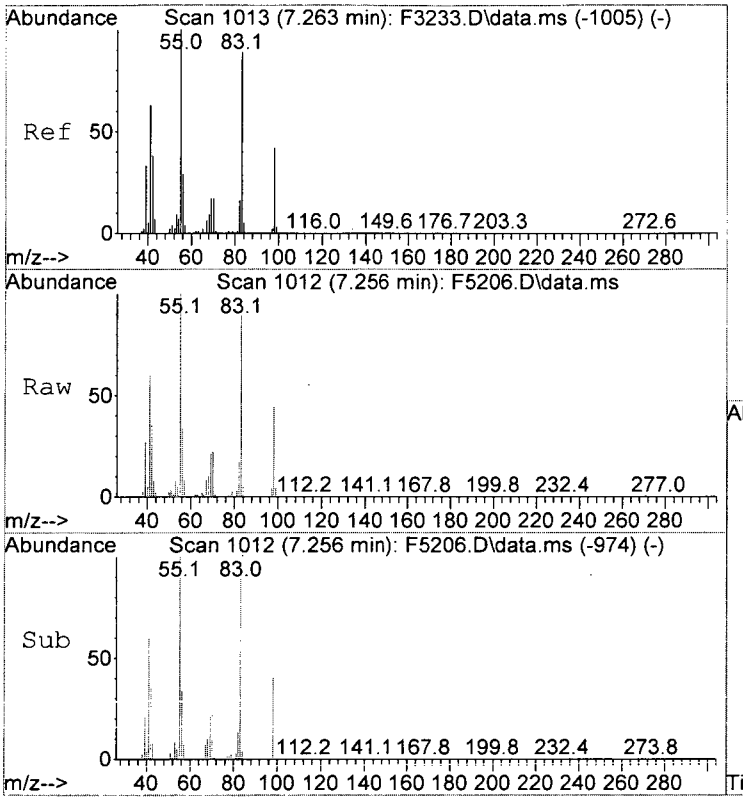


#53
Trichloroethene
Concen: 36.40 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion:130 Resp: 236661

Ion	Ratio	Lower	Upper
130	100		
132	97.4	74.1	114.1
95	90.7	70.9	110.9
97	61.7	39.7	79.7

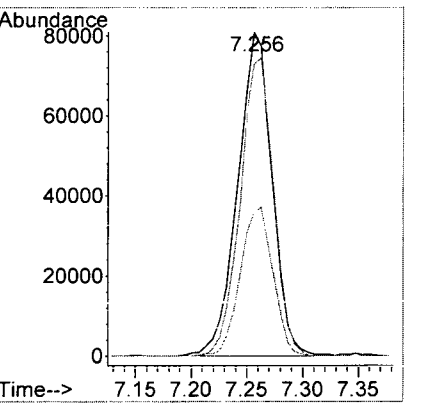


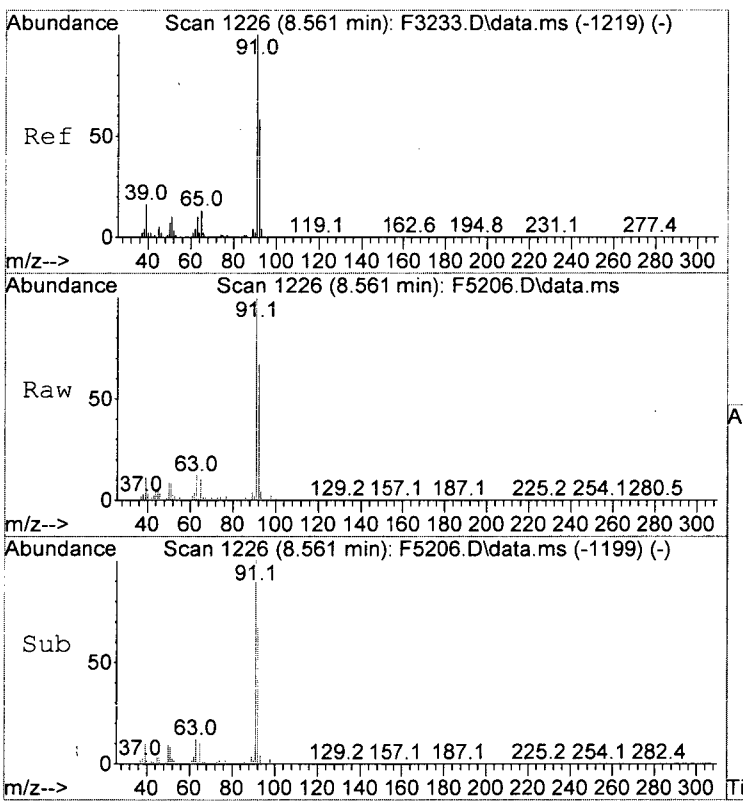


#54
Methylcyclohexane
Concen: 15.23 ug/L
RT: 7.256 min Scan# 1012
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 55 Resp: 172320

Ion	Ratio	Lower	Upper
55	100		
83	90.2	69.2	109.2
98	44.0	22.1	62.1

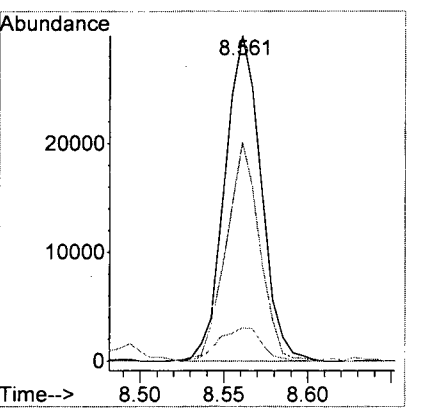


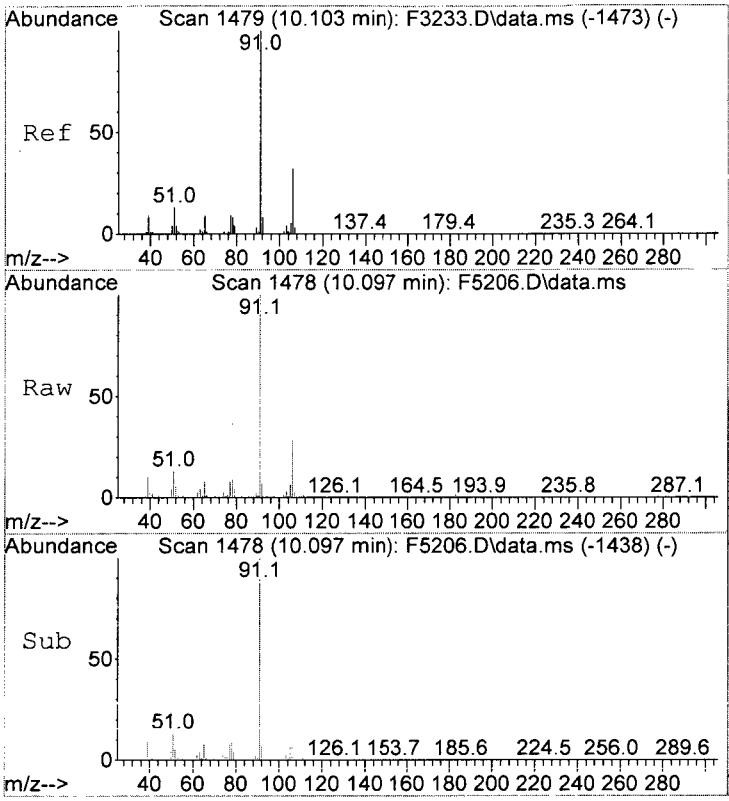


#65
Toluene
Concen: 1.74 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 91 Resp: 45064

Ion	Ratio	Lower	Upper
91	100		
92	67.2	38.2	78.2
65	10.2	0.0	33.1

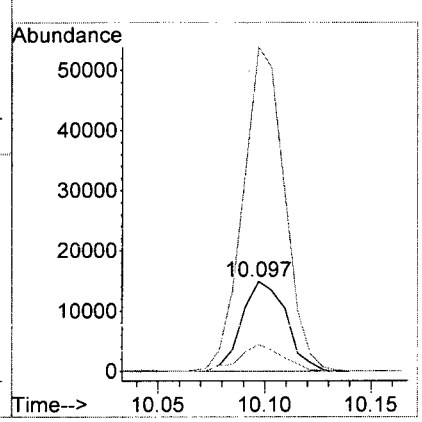


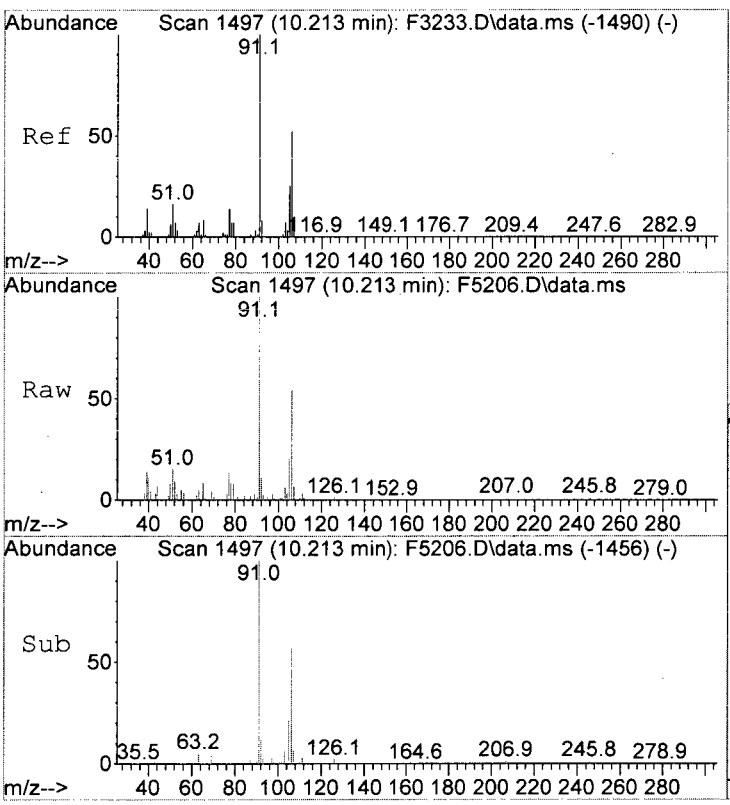


#81
Ethylbenzene
Concen: 2.42 ug/L
RT: 10.097 min Scan# 1478
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion:106 Resp: 21360

Ion	Ratio	Lower	Upper
106	100		
91	361.8	292.1	332.1#
65	29.6	9.7	49.7

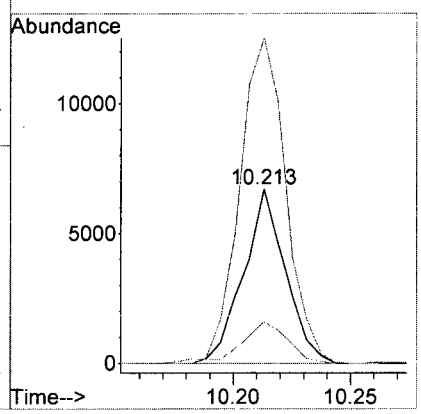


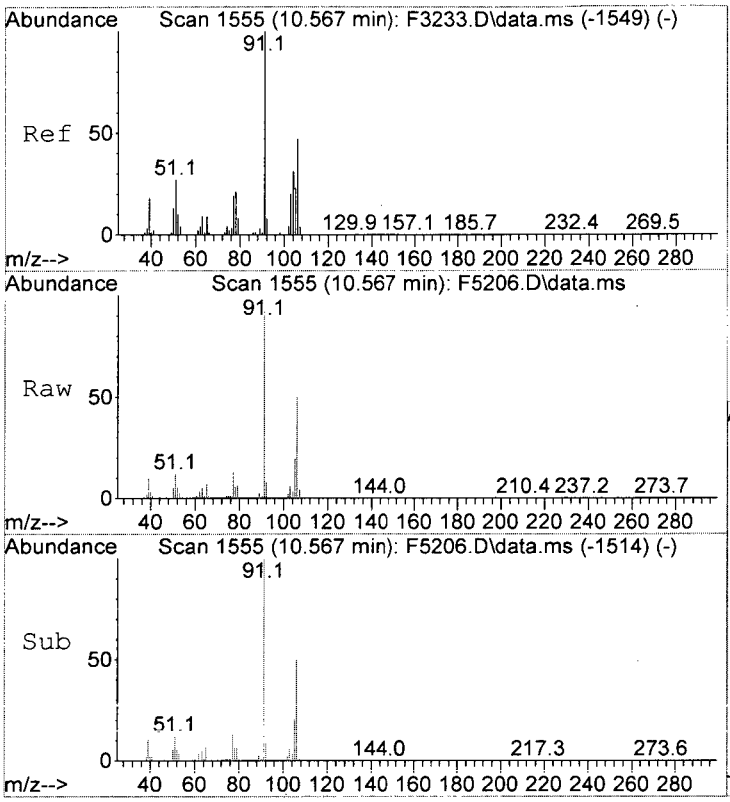


#82
(m+p)Xylene
Concen: 0.73 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion:106 Resp: 8266

Ion	Ratio	Lower	Upper
106	100		
91	186.8	170.6	210.6
77	23.6	6.3	46.3

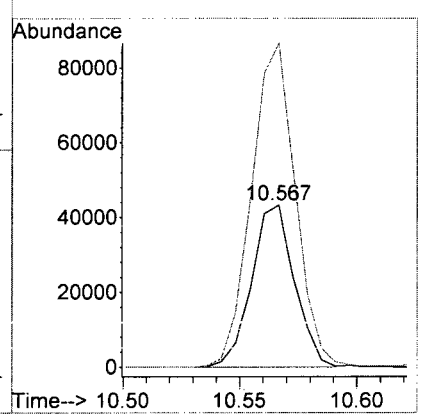


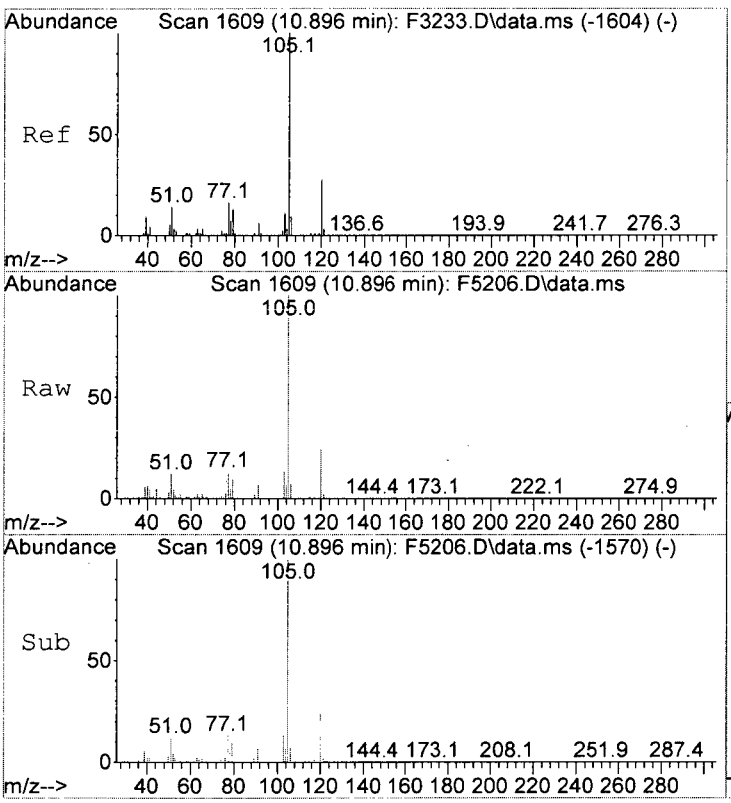


#83
o-Xylene
Concen: 4.87 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion:106 Resp: 54540

Ion	Ratio	Lower	Upper
106	100		
91	200.2	194.2	234.2

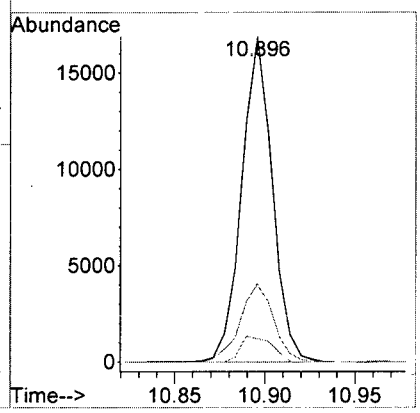


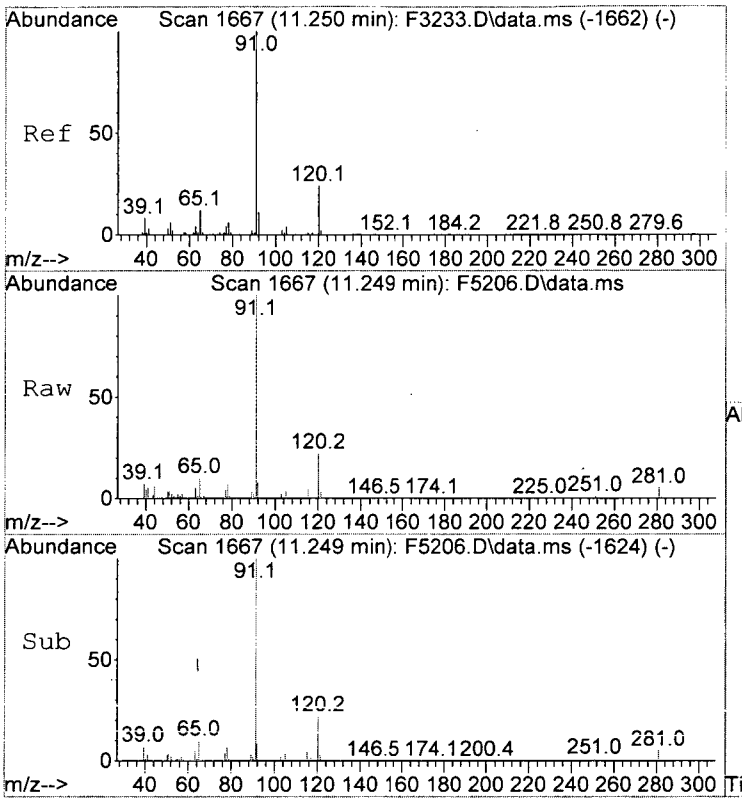


#87
Isopropylbenzene
Concen: 0.68 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion:105 Resp: 19957

Ion	Ratio	Lower	Upper
105	100		
120	23.9	6.5	46.5
106	7.1	0.0	29.0

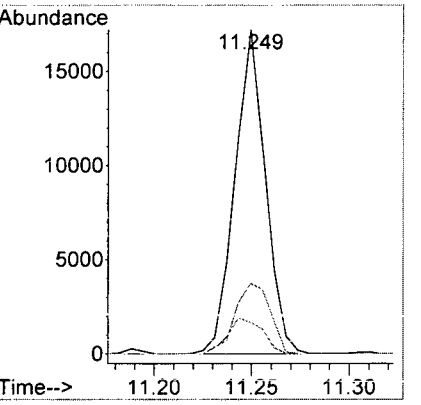




#94
n-Propylbenzene
Concen: 0.58 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F5206.D
Acq: 21 Dec 2015 8:57 pm

Tgt Ion: 91 Resp: 18769

Ion	Ratio	Lower	Upper
91	100		
120	21.7	3.7	43.7
65	9.7	0.0	31.5



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5230.D
Acq On : 22 Dec 2015 7:49 pm
Operator : F. Naegler
Sample : R1510962-008|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 16:06:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

DL

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	604173	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	902714	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	790232	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	398059	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	284111	51.30	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.60%				
46) surr1,1,2-dichloroetha...	6.025	65	378666	50.84	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 101.68%				
64) SURR3,Toluene-d8	8.488	98	1087927	52.89	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.78%				
69) SURR2,BFB	11.018	95	405332	49.35	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.70%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	521631	51.70	ug/L		97
5) Bromomethane	1.611	94	478	Below Cal		#	72
13) 1,1-Diclethene	2.361	96	1788	0.37	ug/L	#	78
15) Acetone	2.416	43	2868	0.53	ug/L		85
26) trans-1,2-Dichloroethene	3.154	96	2282	0.42	ug/L	#	56
33) cis-1,2-Dichloroethene	4.617	96	607881	99.41	ug/L		97
42) Cyclohexane	5.598	41	20816	2.17	ug/L		96
47) Benzene	6.098	78	6503	0.27	ug/L	#	68
53) Trichloroethene	7.031	130	18334	2.96	ug/L		93
54) Methylcyclohexane	7.256	55	21045	1.95	ug/L		89
81) Ethylbenzene	10.103	106	2284	0.27	ug/L	#	65
83) o-Xylene	10.561	106	4250	0.40	ug/L	#	87

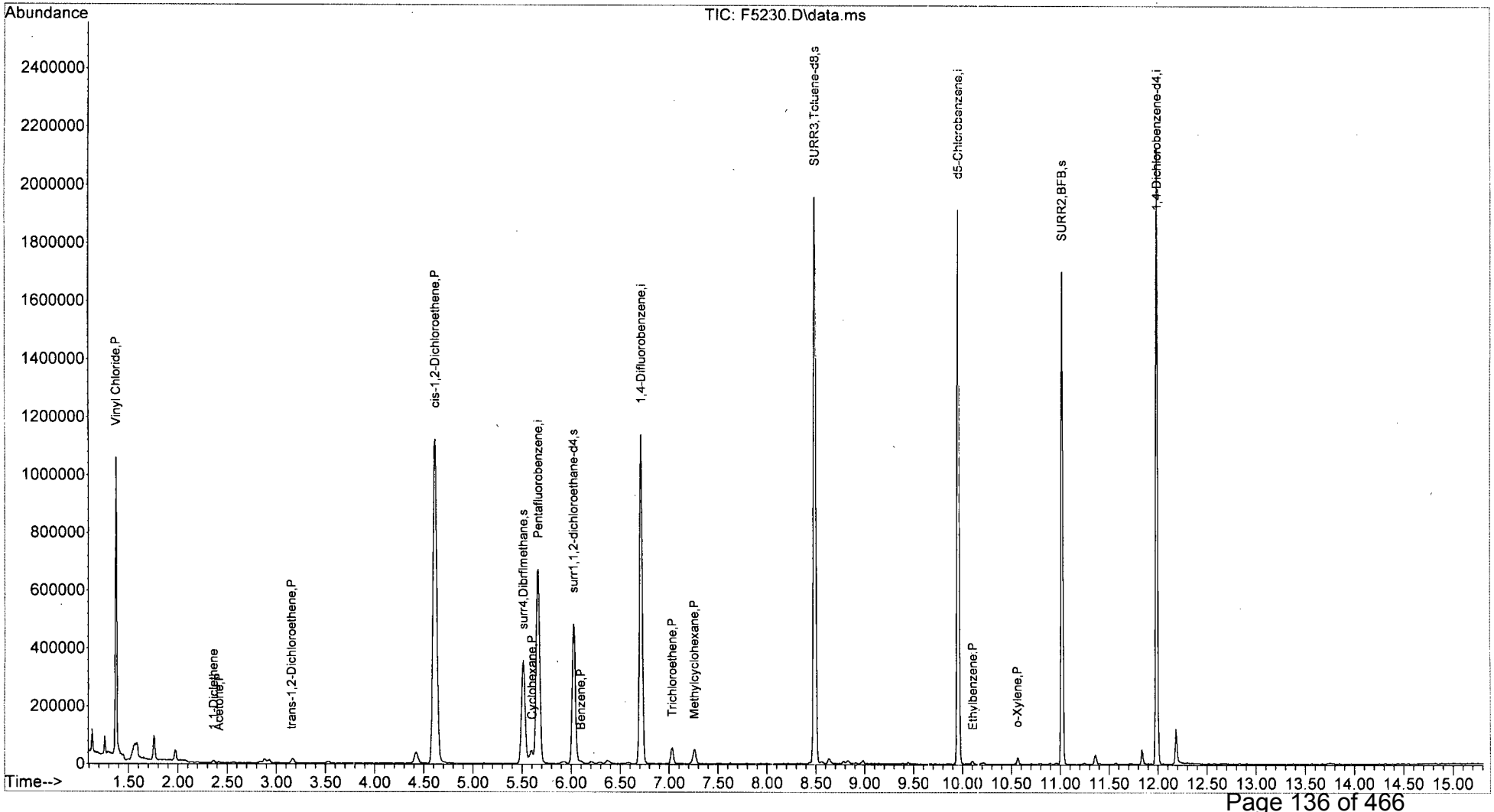
(#) = qualifier out of range (m) = manual integration (+) = signals summed

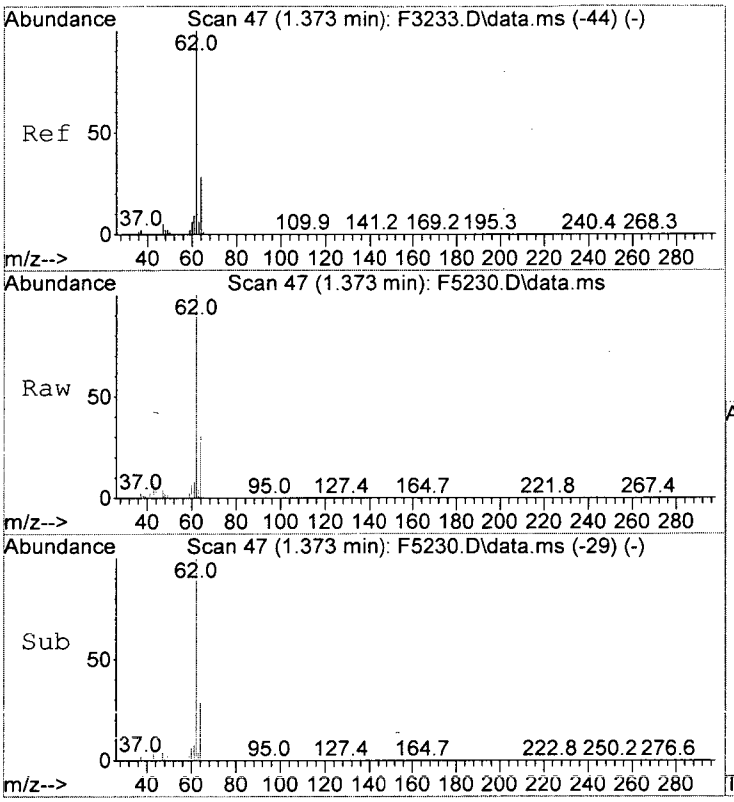
FD 12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5230.D
Acq On : 22 Dec 2015 7:49 pm
Operator : F. Naegler
Sample : R1510962-008|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 29 16:06:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

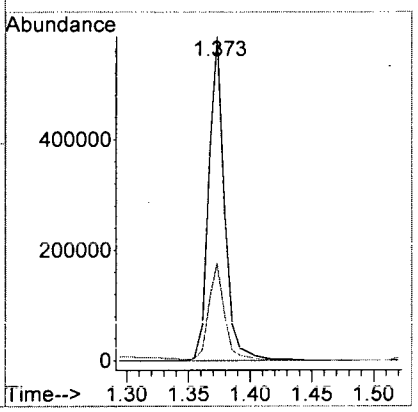


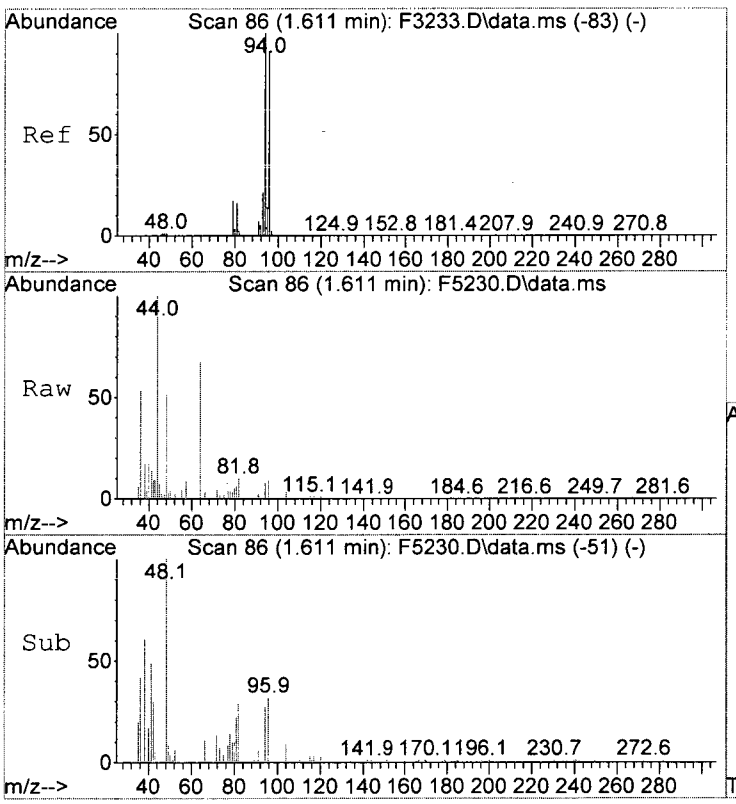


#4
Vinyl Chloride
Concen: 51.70 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 62 Resp: 521631

Ion	Ratio	Lower	Upper
62	100		
64	29.9	8.4	48.4

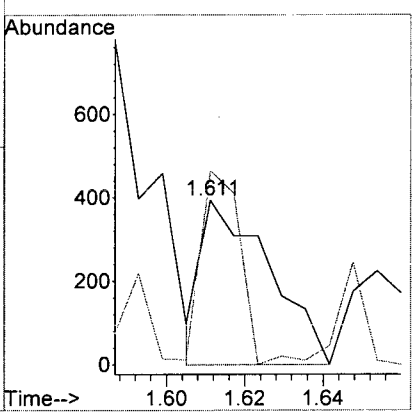


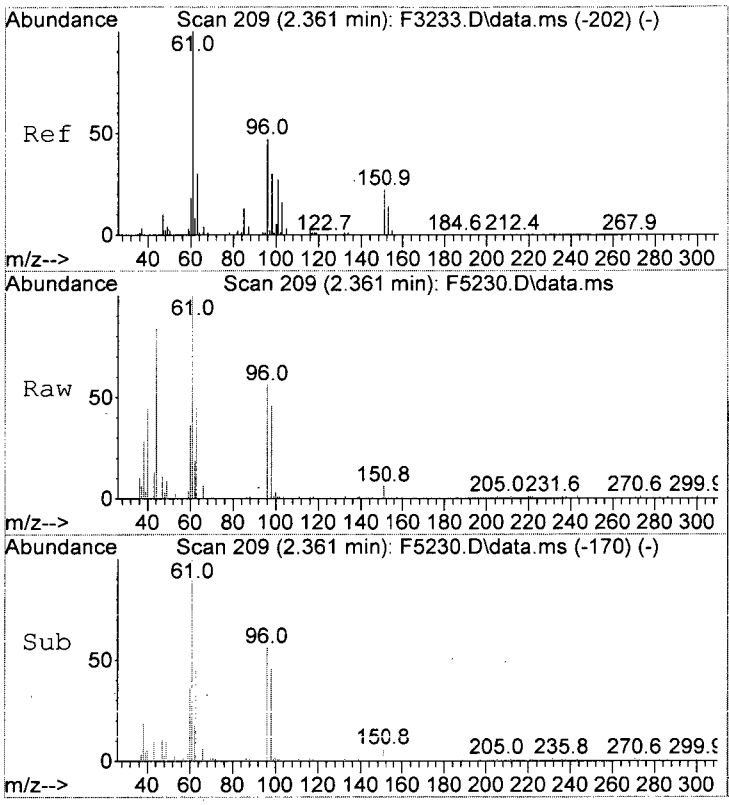


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. -0.012 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 94 Resp: 478

Ion	Ratio	Lower	Upper
94	100		
96	117.8	71.0	111.0#

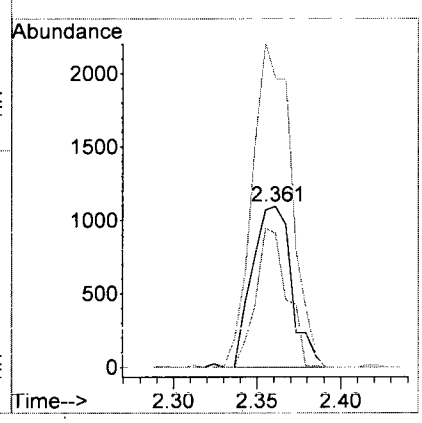


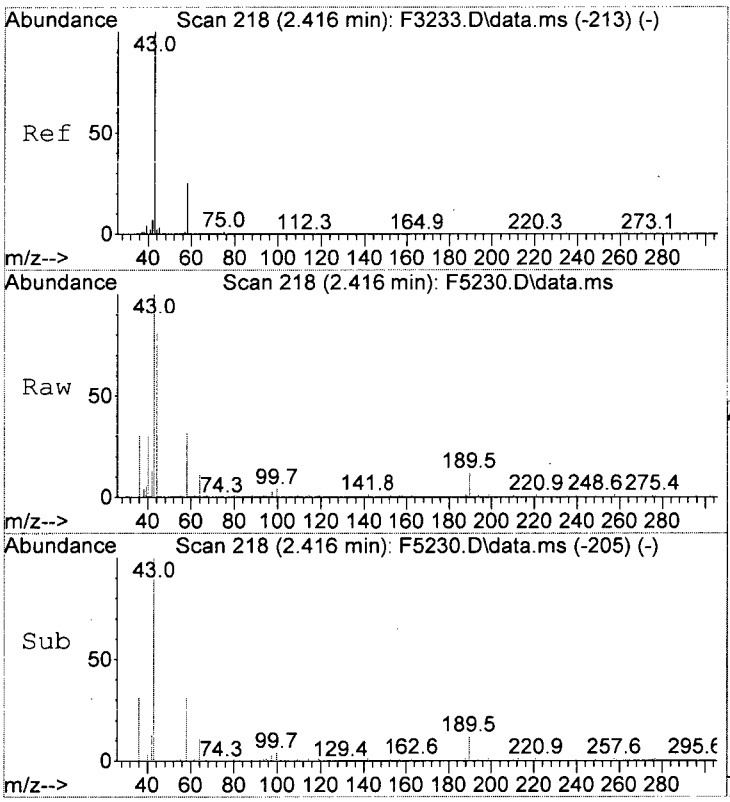


#13
1,1-Diclethene
Concen: 0.37 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 96 Resp: 1788

Ion	Ratio	Lower	Upper
96	100		
98	83.0	44.2	84.2
61	179.4	192.7	232.7#

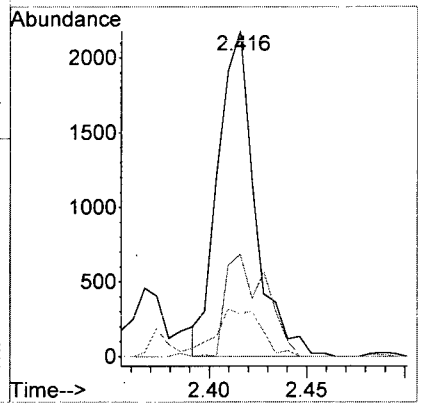


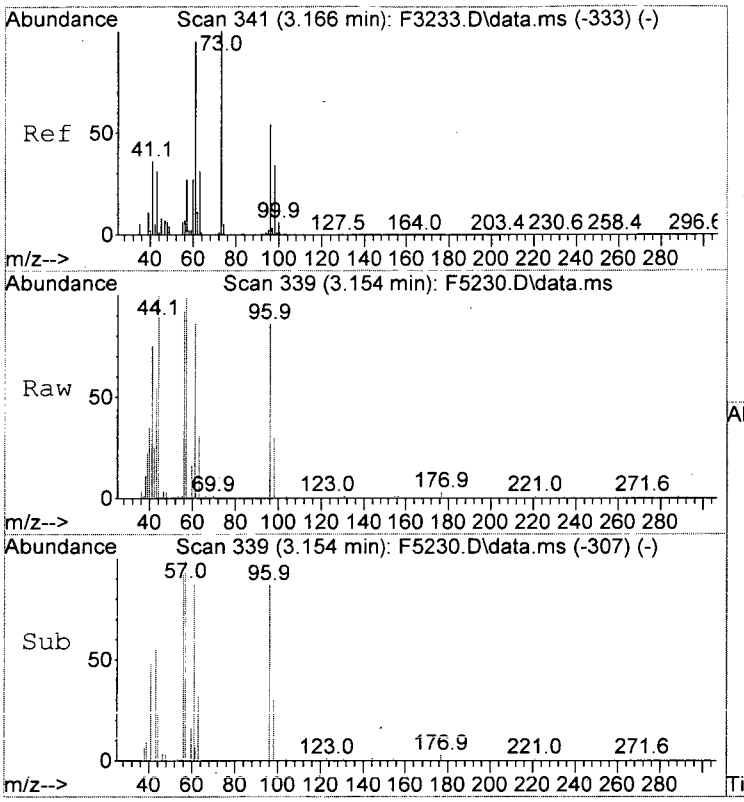


#15
Acetone
Concen: 0.53 ug/L
RT: 2.416 min Scan# 218
Delta R.T. 0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 43 Resp: 2868

Ion	Ratio	Lower	Upper
43	100		
58	31.4	4.3	44.3
42	13.1	0.0	27.3

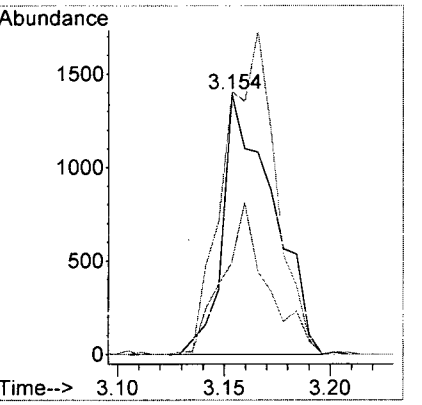


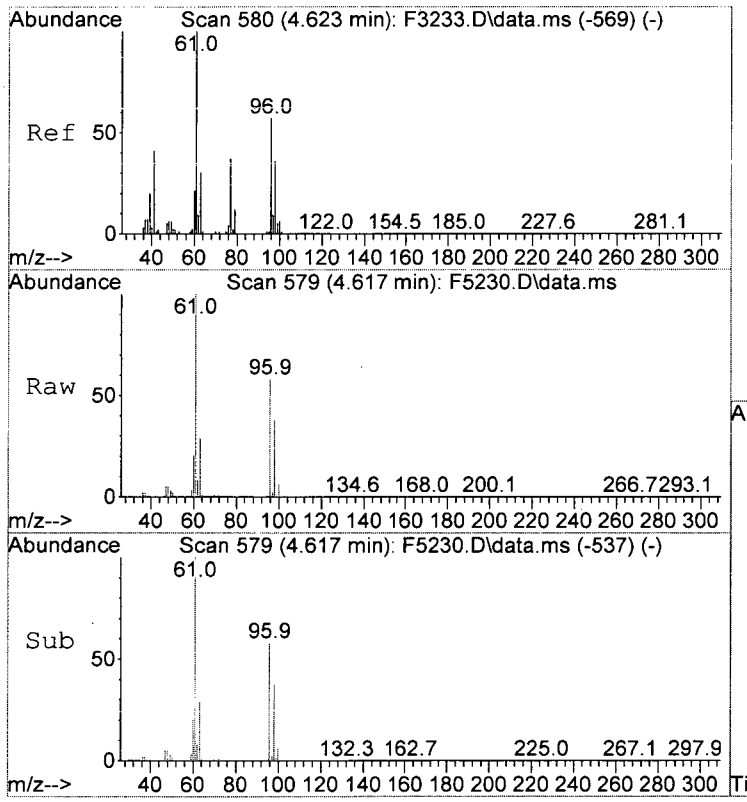


#26
trans-1,2-Dichloroethene
Concen: 0.42 ug/L
RT: 3.154 min Scan# 339
Delta R.T. -0.012 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 96 Resp: 2282

Ion	Ratio	Lower	Upper
96	100		
98	35.1	42.3	82.3#
61	109.3	155.3	195.3#

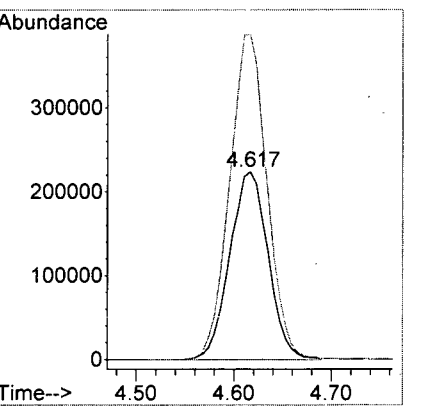


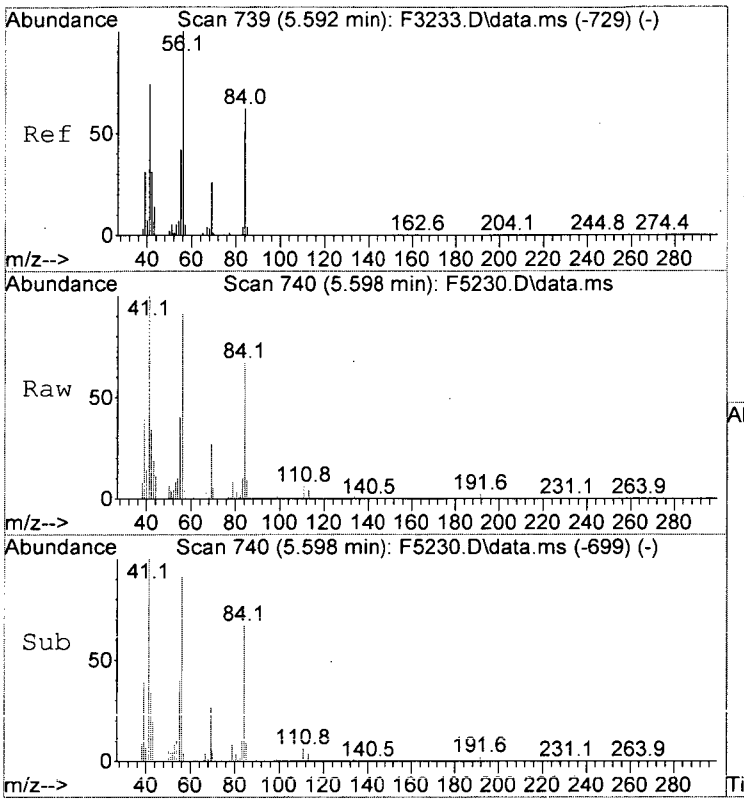


#33
cis-1,2-Dichloroethene
Concen: 99.41 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 96 Resp: 607881

Ion	Ratio	Lower	Upper
96	100		
61	173.3	157.0	197.0

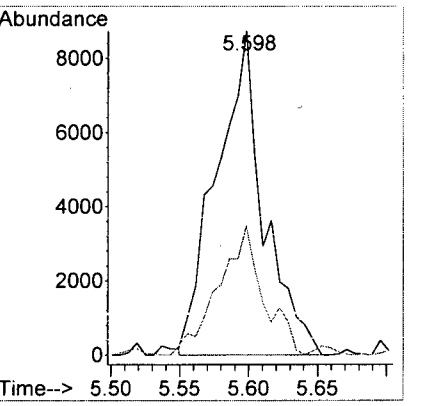


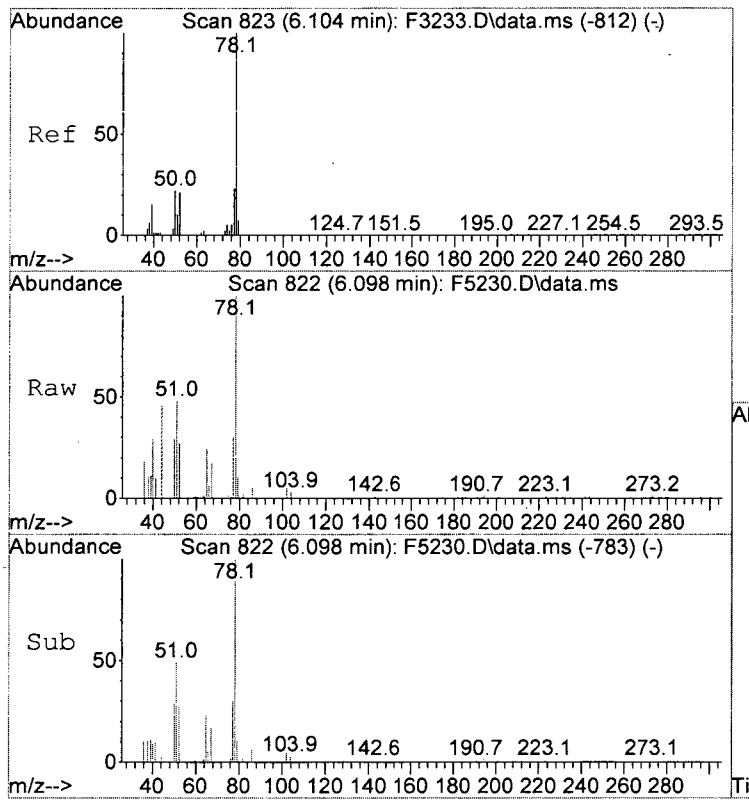


#42
Cyclohexane
Concen: 2.17 ug/L
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 41 Resp: 20816

Ion	Ratio	Lower	Upper
41	100		
39	39.7	22.1	62.1

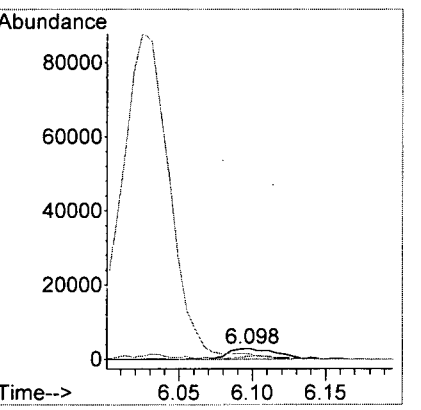


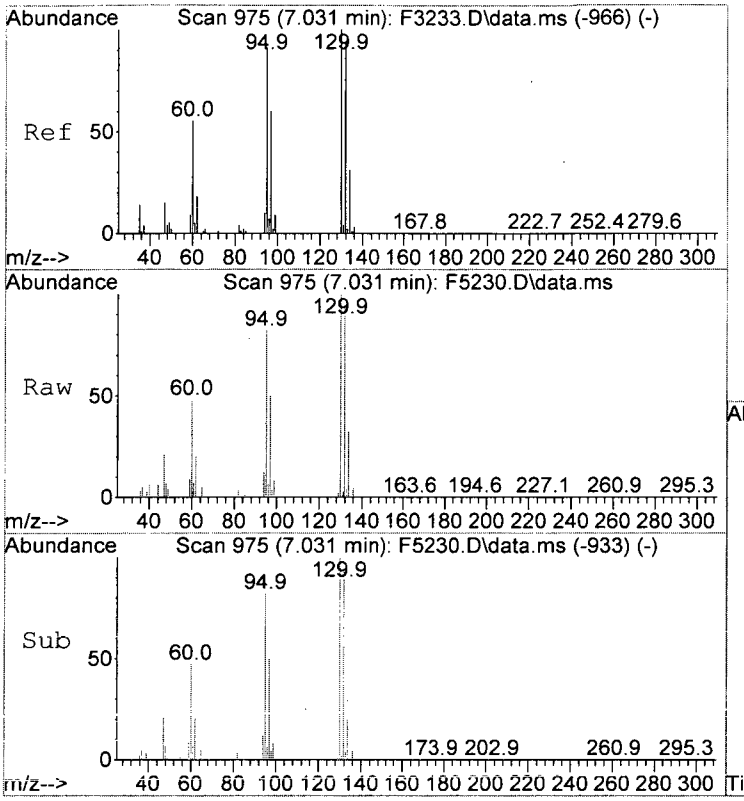


#47
Benzene
Concen: 0.27 ug/L
RT: 6.098 min Scan# 822
Delta R.T. -0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 78 Resp: 6503

Ion	Ratio	Lower	Upper
78	100		
51	48.4	3.0	43.0#
52	26.8	1.6	41.6

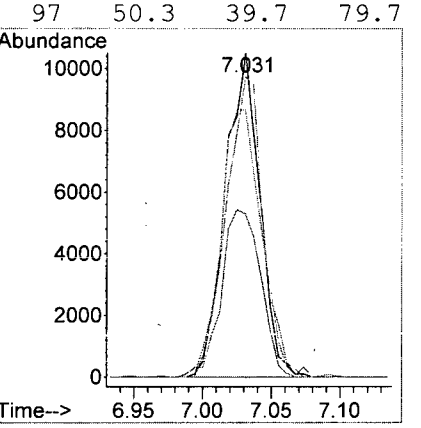


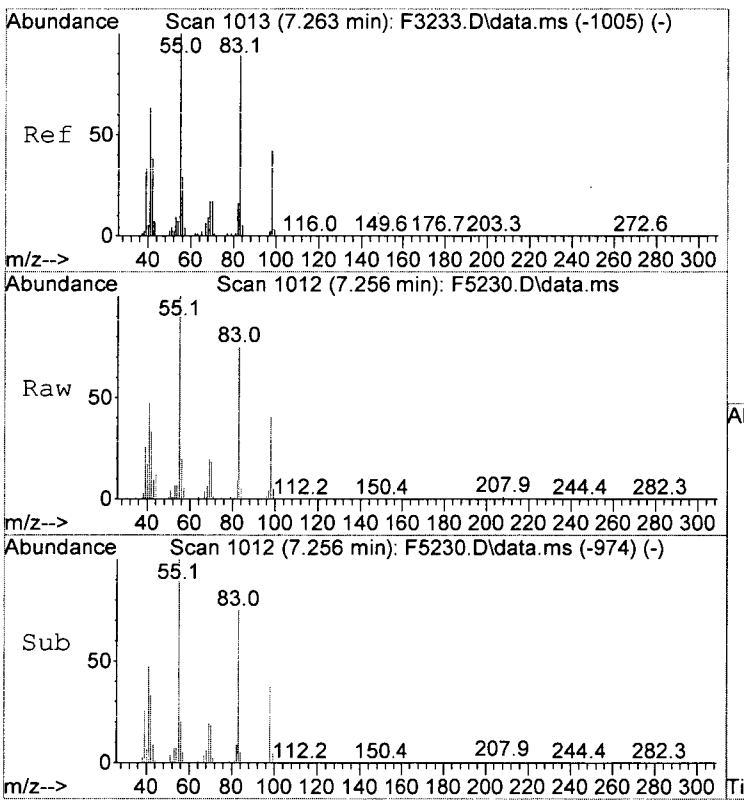


#53
Trichloroethene
Concen: 2.96 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion:130 Resp: 18334

Ion	Ratio	Lower	Upper
130	100		
132	92.6	74.1	114.1
95	82.4	70.9	110.9
97	50.3	39.7	79.7

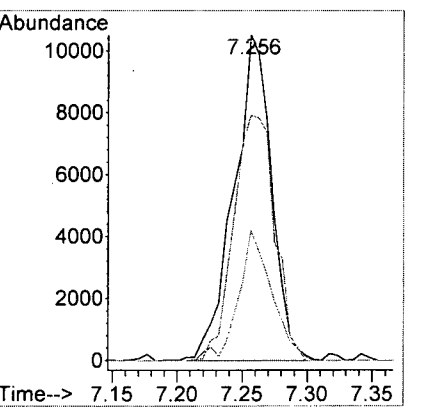


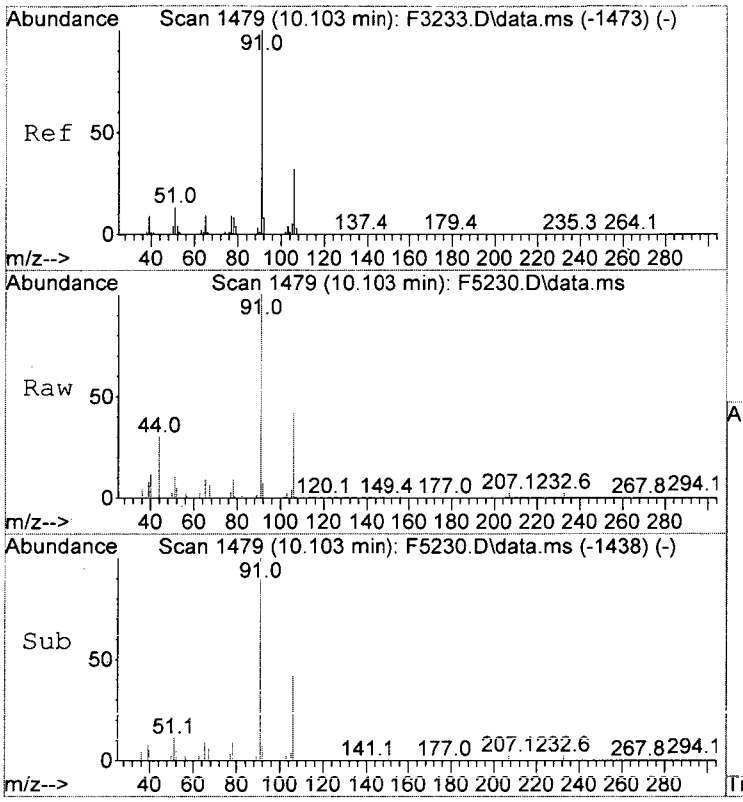


#54
Methylcyclohexane
Concen: 1.95 ug/L
RT: 7.256 min Scan# 1012
Delta R.T. -0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion: 55 Resp: 21045

Ion	Ratio	Lower	Upper
55	100		
83	75.3	69.2	109.2
98	39.9	22.1	62.1

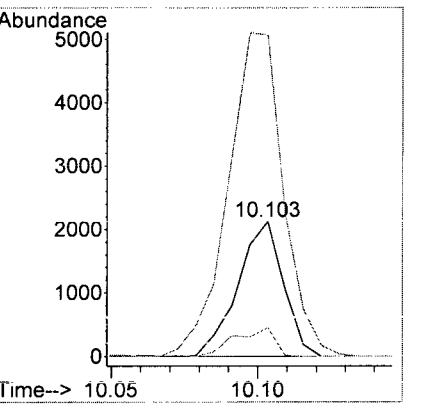


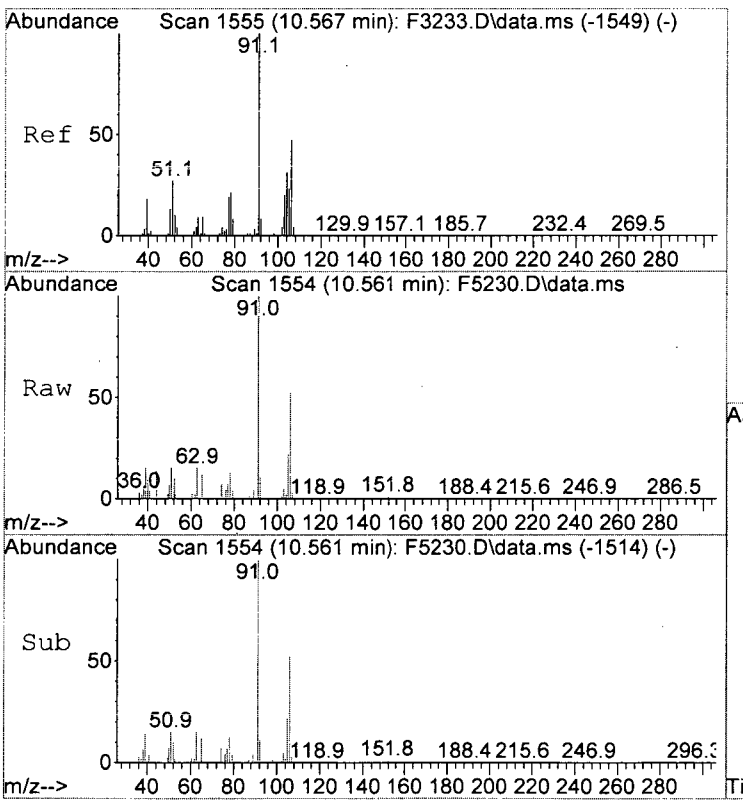


#81
Ethylbenzene
Concen: 0.27 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion:106 Resp: 2284

Ion	Ratio	Lower	Upper
106	100		
91	238.4	292.1	332.1#
65	21.2	9.7	49.7

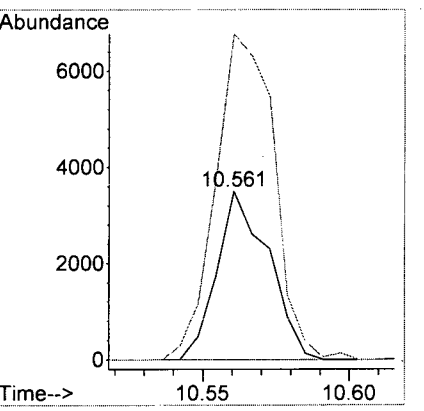




#83
o-Xylene
Concen: 0.40 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. -0.006 min
Lab File: F5230.D
Acq: 22 Dec 2015 7:49 pm

Tgt Ion:106 Resp: 4250

Ion	Ratio	Lower	Upper
106	100		
91	193.7	194.2	234.2#



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1350
Date Received: 12/16/15

Sample Name: AL-2
Lab Code: R1510962-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 21:21		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 21:21		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 21:21		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 21:21		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 21:21		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 21:21		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 21:21		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 21:21		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 21:21		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 21:21		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 21:21		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 21:21		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 21:21		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 21:21		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 21:21		477252	
Benzene	**5.5**		1.0	0.20	1	NA	12/21/15 21:21		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 21:21		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 21:21		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 21:21		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 21:21		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 21:21		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 21:21		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 21:21		477252	
Cyclohexane	**4.2**		1.0	0.25	1	NA	12/21/15 21:21		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 21:21		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 21:21		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 21:21		477252	
Ethylbenzene	**0.23**	J	1.0	0.20	1	NA	12/21/15 21:21		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1350
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	AL-2	**Units:**	µg/L
Lab Code:	R1510962-009	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 21:21		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 21:21		477252	
Methylcyclohexane	**1.5**		1.0	0.27	1	NA	12/21/15 21:21		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 21:21		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Trichloroethene (TCE)	**1.5**		1.0	0.22	1	NA	12/21/15 21:21		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	
Vinyl Chloride	**2.7**		1.0	0.32	1	NA	12/21/15 21:21		477252	
cis-1,2-Dichloroethene	**8.7**		1.0	0.30	1	NA	12/21/15 21:21		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 21:21		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 21:21		477252	
o-Xylene	**0.22**	J	1.0	0.20	1	NA	12/21/15 21:21		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 21:21		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 21:21		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/21/15 21:21	
Dibromofluoromethane	101	89-119	12/21/15 21:21	
Toluene-d8	103	87-121	12/21/15 21:21	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5207.D
Acq On : 21 Dec 2015 9:21 pm
Operator : F. Naegler
Sample : R1510962-009|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 14:54:33 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.659	168	629184	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	926284	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	808153	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	423060	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	287830	50.65	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.30%				
46) surr1,1,2-dichloroetha...	6.031	65	349470	45.73	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 91.46%				
64) SURR3,Toluene-d8	8.488	98	1085564	51.44	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.88%				
69) SURR2,BFB	11.018	95	416442	49.41	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.82%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	28297	2.69	ug/L	#	1
5) Bromomethane	1.580	94	614	Below Cal		#	44
15) Acetone	2.410	43	2531	0.45	ug/L		80
33) cis-1,2-Dichloroethene	4.623	96	55678	8.74	ug/L	#	67
42) Cyclohexane	5.592	41	40952	4.16	ug/L		98
47) Benzene	6.104	78	136498	5.53	ug/L		96
53) Trichloroethene	7.037	130	9208	1.45	ug/L	#	81
54) Methylcyclohexane	7.262	55	16237	1.47	ug/L		97
81) Ethylbenzene	10.097	106	1946	0.23	ug/L	#	87
83) o-Xylene	10.567	106	2352	0.22	ug/L		98

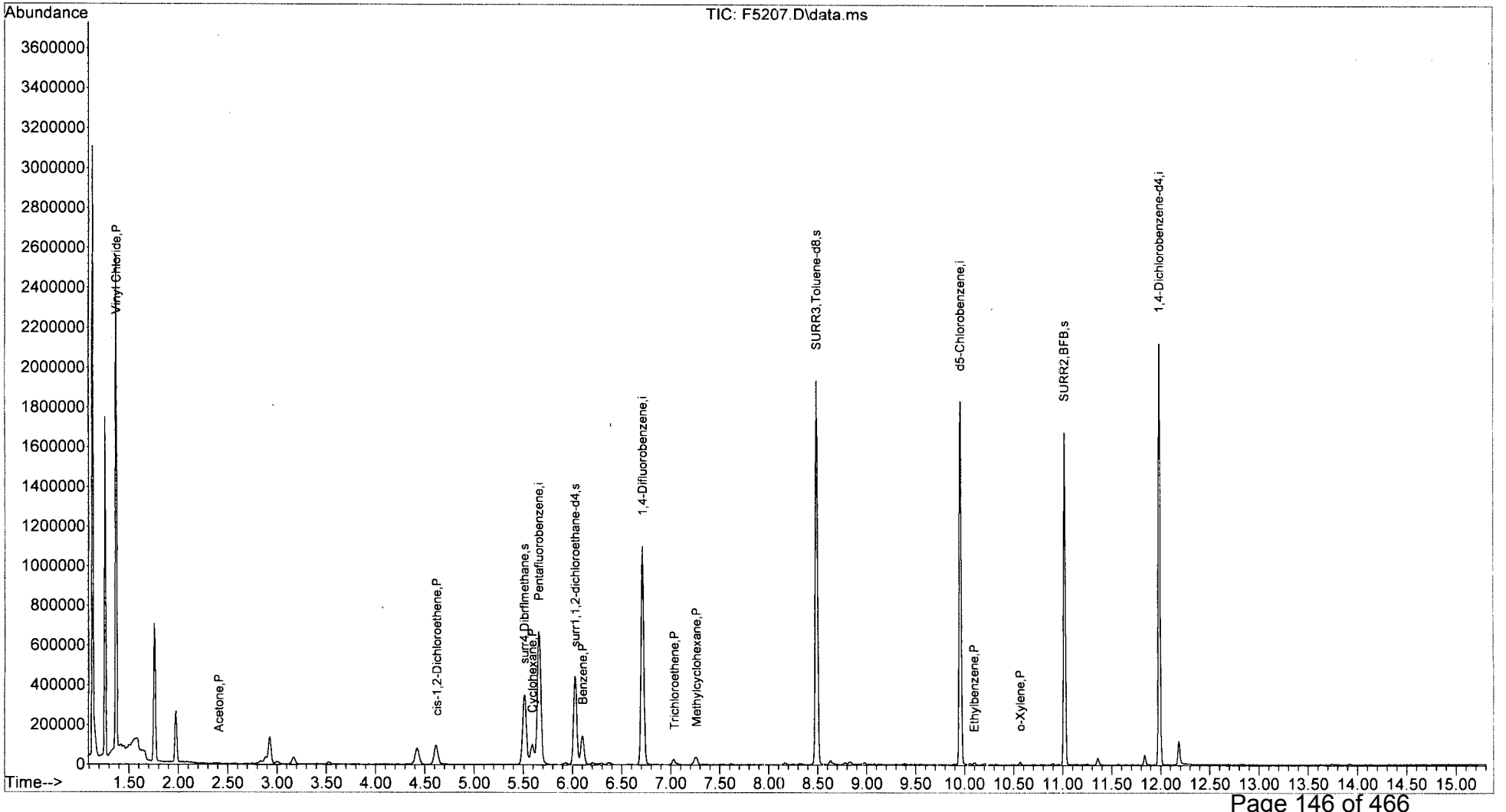
(#) = qualifier out of range (m) = manual integration (+) = signals summed

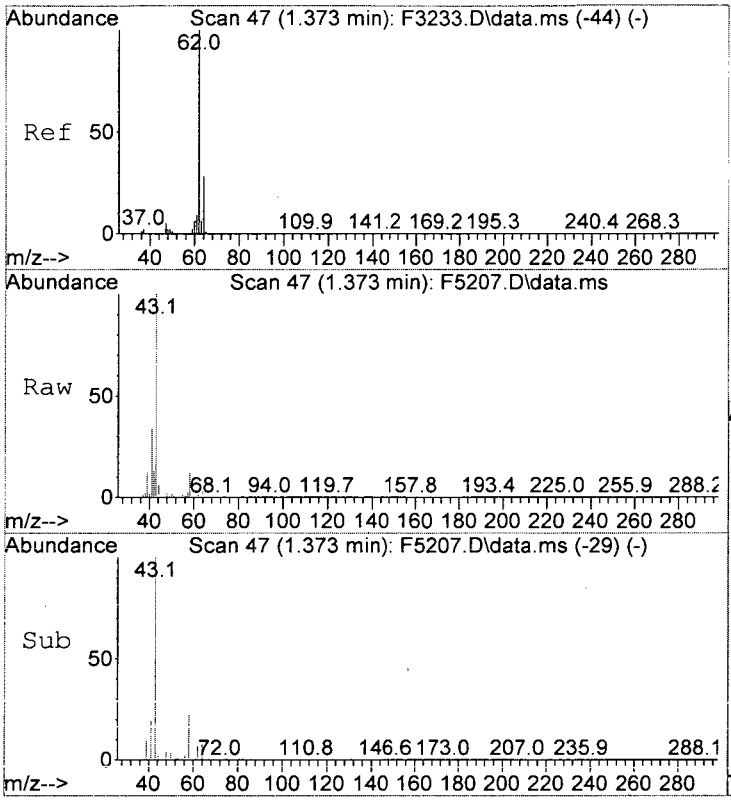
FU 12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5207.D
Acq On : 21 Dec 2015 9:21 pm
Operator : F. Naegler
Sample : R1510962-009|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Dec 29 14:54:33 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

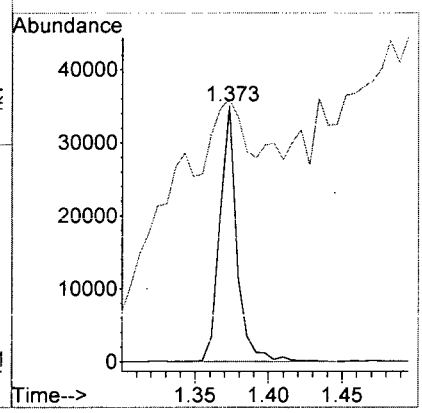


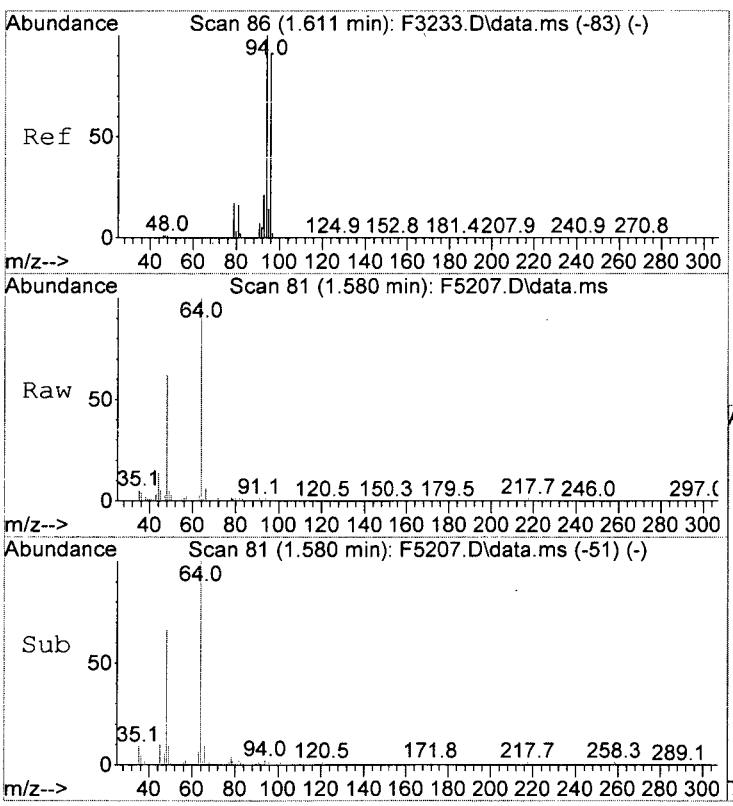


#4
Vinyl Chloride
Concen: 2.69 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 62 Resp: 28297

Ion	Ratio	Lower	Upper
62	100		
64	102.7	8.4	48.4#

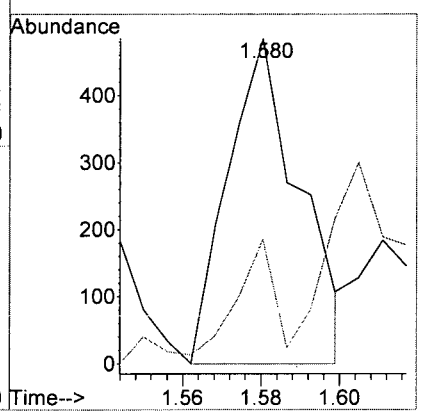


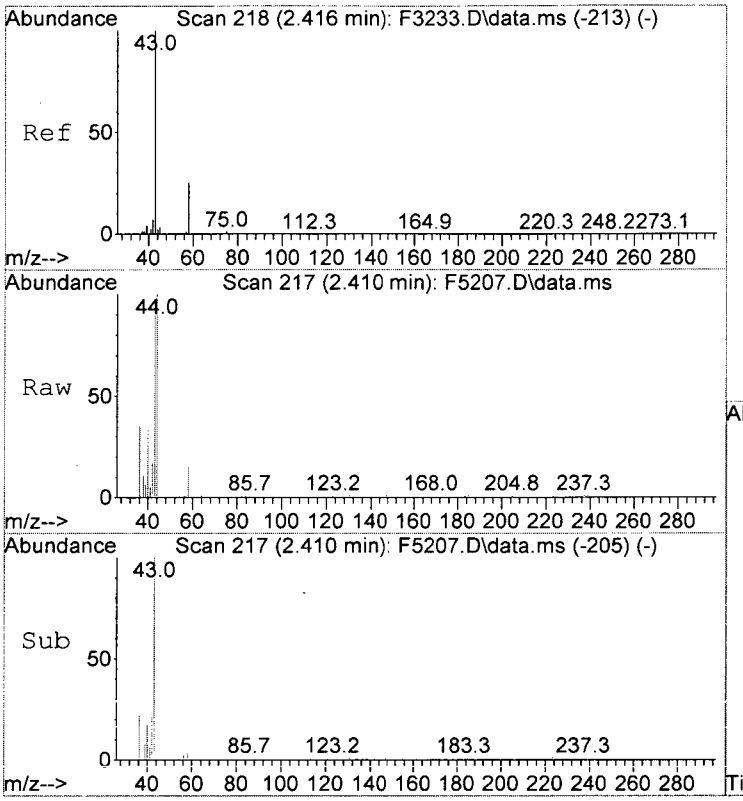


#5
Bromomethane
Concen: Below Cal
RT: 1.580 min Scan# 81
Delta R.T. -0.043 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 94 Resp: 614

Ion	Ratio	Lower	Upper
94	100		
96	38.4	71.0	111.0#

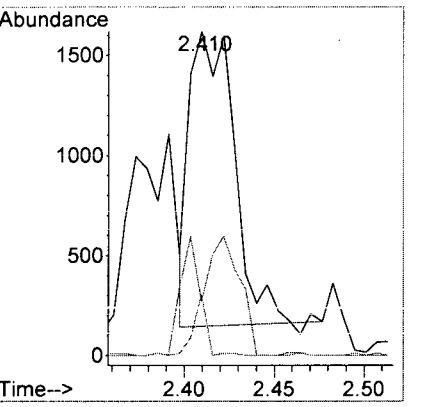


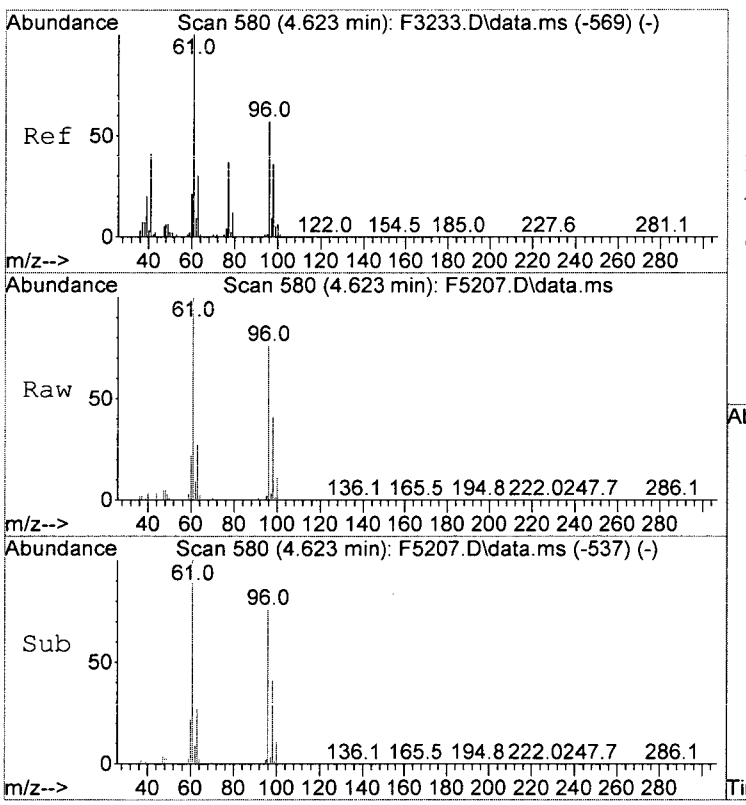


#15
Acetone
Concen: 0.45 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 43 Resp: 2531

Ion	Ratio	Lower	Upper
43	100		
58	16.5	4.3	44.3
42	18.9	0.0	27.3

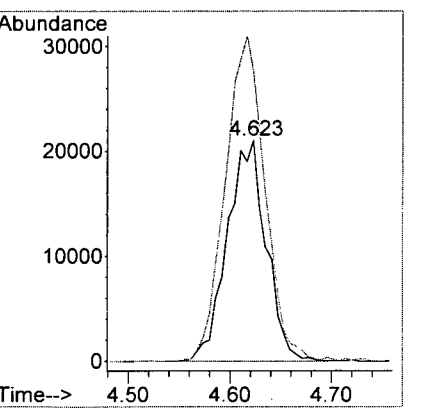


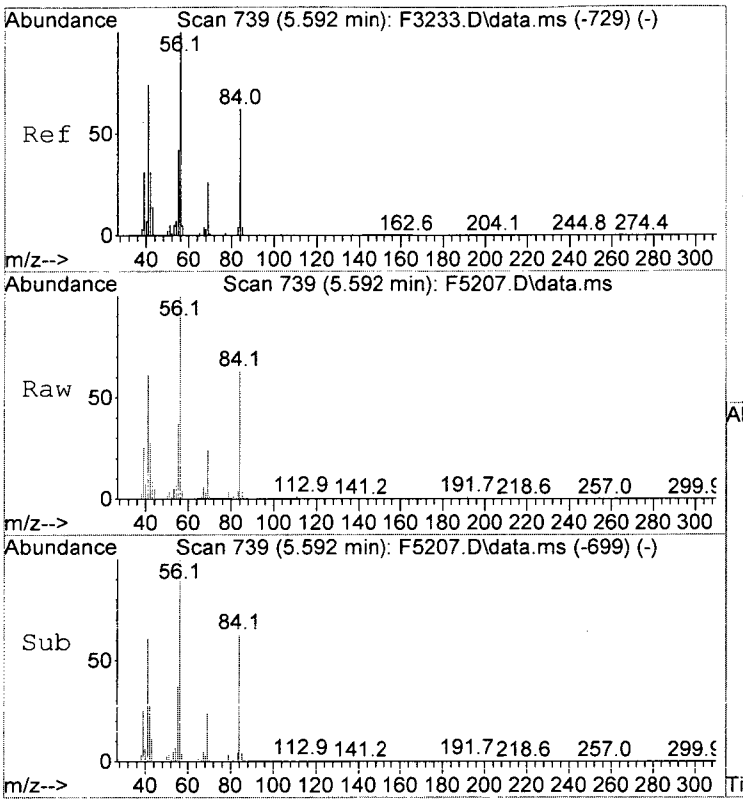


#33
cis-1,2-Dichloroethene
Concen: 8.74 ug/L
RT: 4.623 min Scan# 580
Delta R.T. 0.006 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 96 Resp: 55678

Ion	Ratio	Lower	Upper
96	100		
61	131.1	157.0	197.0#

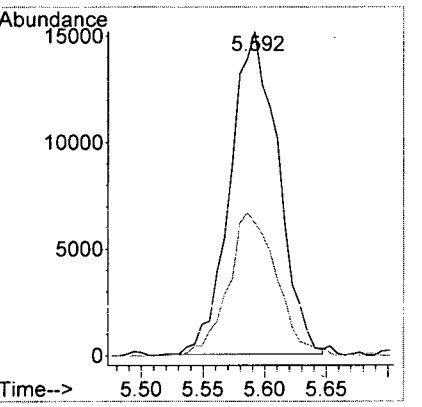


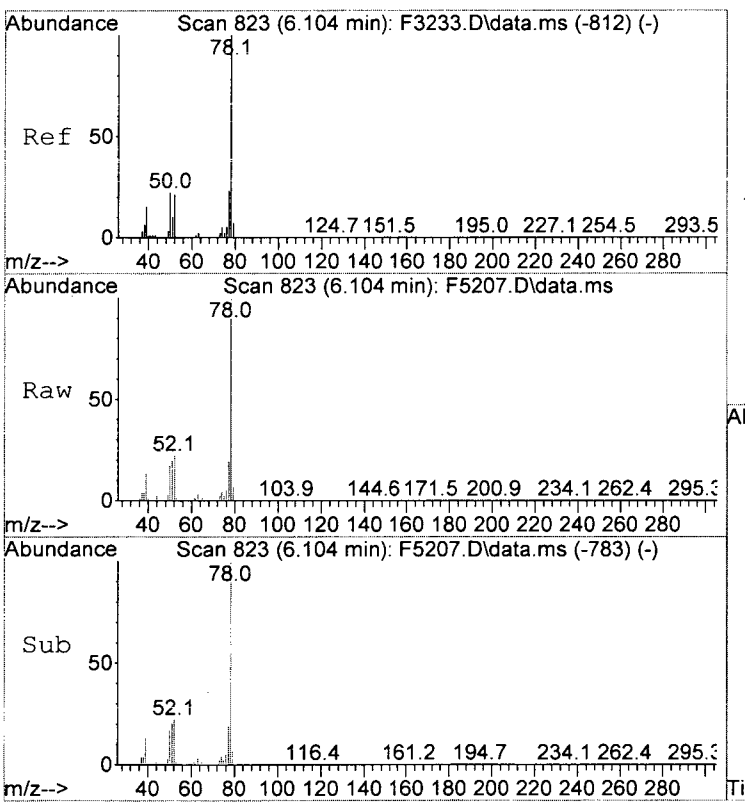


#42
Cyclohexane
Concen: 4.16 ug/L
RT: 5.592 min Scan# 739
Delta R.T. -0.006 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 41 Resp: 40952

Ion	Ratio	Lower	Upper
41	100		
39	41.0	22.1	62.1

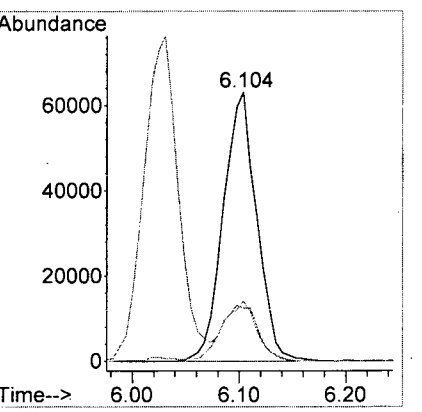


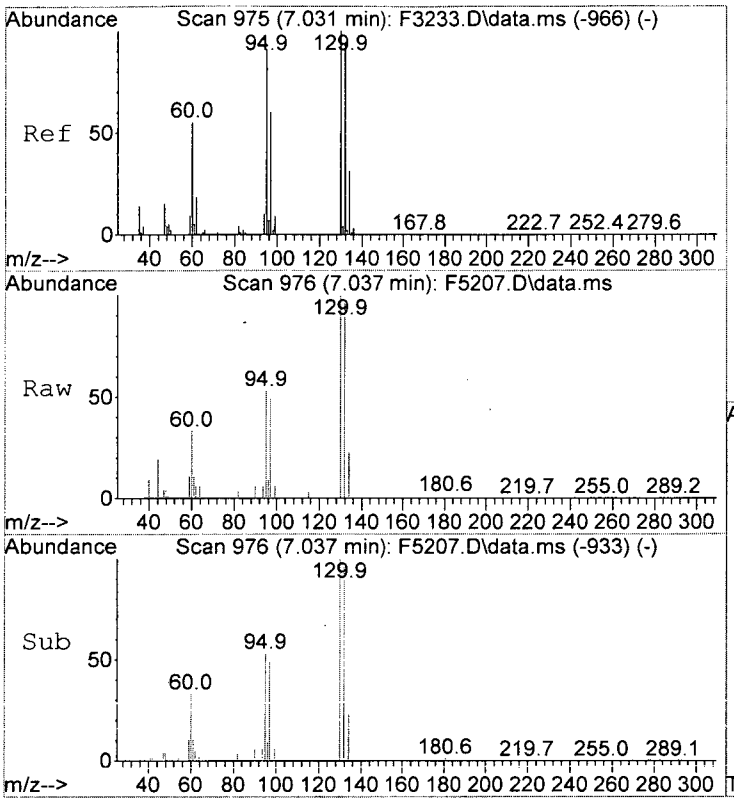


#47
Benzene
Concen: 5.53 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 78 Resp: 136498

Ion	Ratio	Lower	Upper
78	100		
51	19.7	3.0	43.0
52	22.1	1.6	41.6

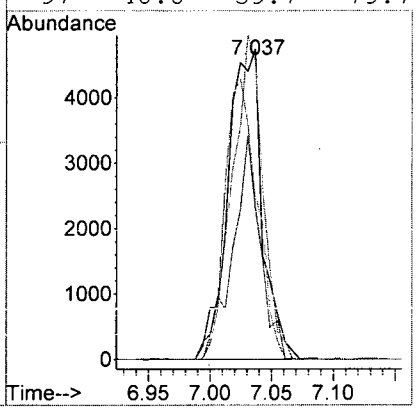


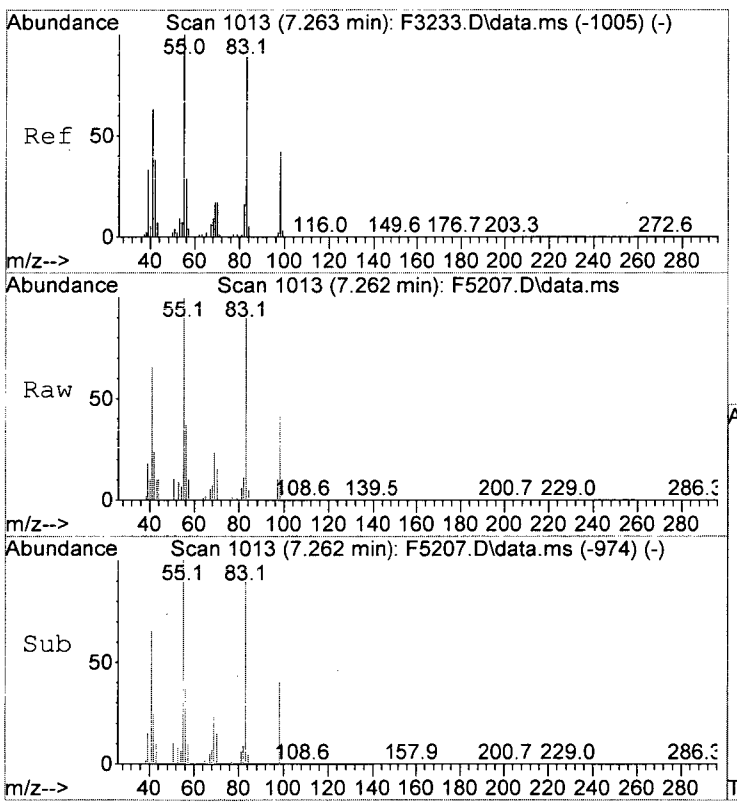


#53
Trichloroethene
Concen: 1.45 ug/L
RT: 7.037 min Scan# 976
Delta R.T. 0.012 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion:130 Resp: 9208

Ion	Ratio	Lower	Upper
130	100		
132	96.1	74.1	114.1
95	52.7	70.9	110.9#
97	48.8	39.7	79.7

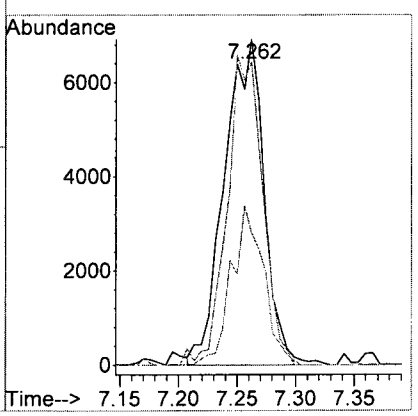


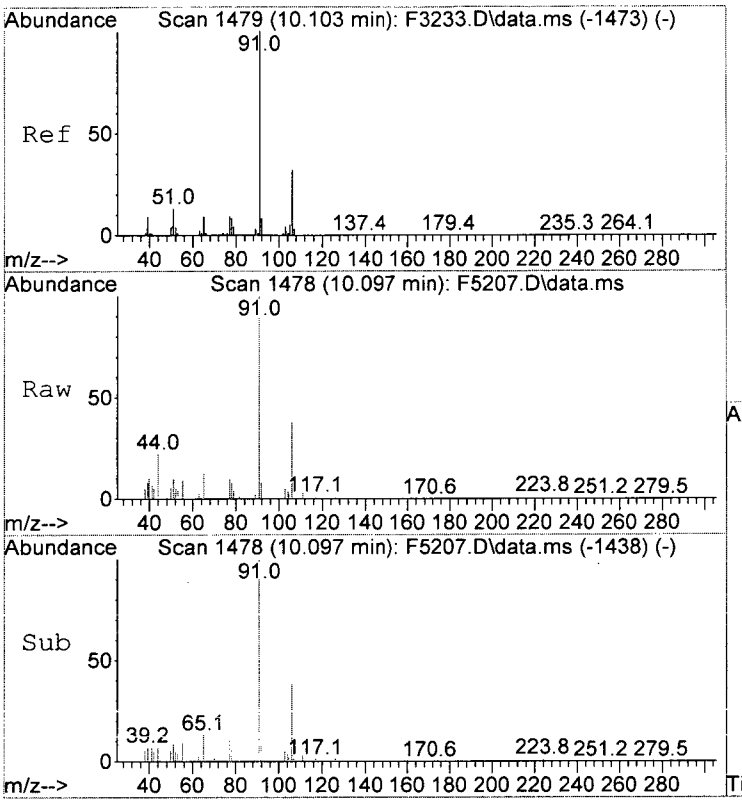


#54
Methylcyclohexane
Concen: 1.47 ug/L
RT: 7.262 min Scan# 1013
Delta R.T. -0.000 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion: 55 Resp: 16237

Ion	Ratio	Lower	Upper
55	100		
83	92.9	69.2	109.2
98	40.7	22.1	62.1

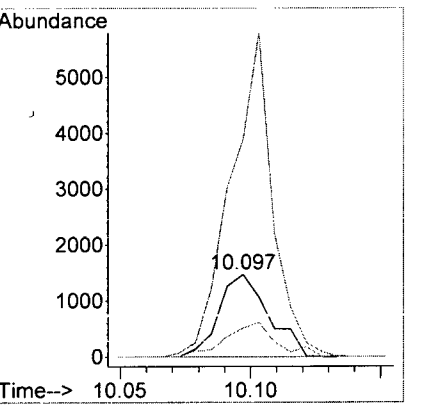


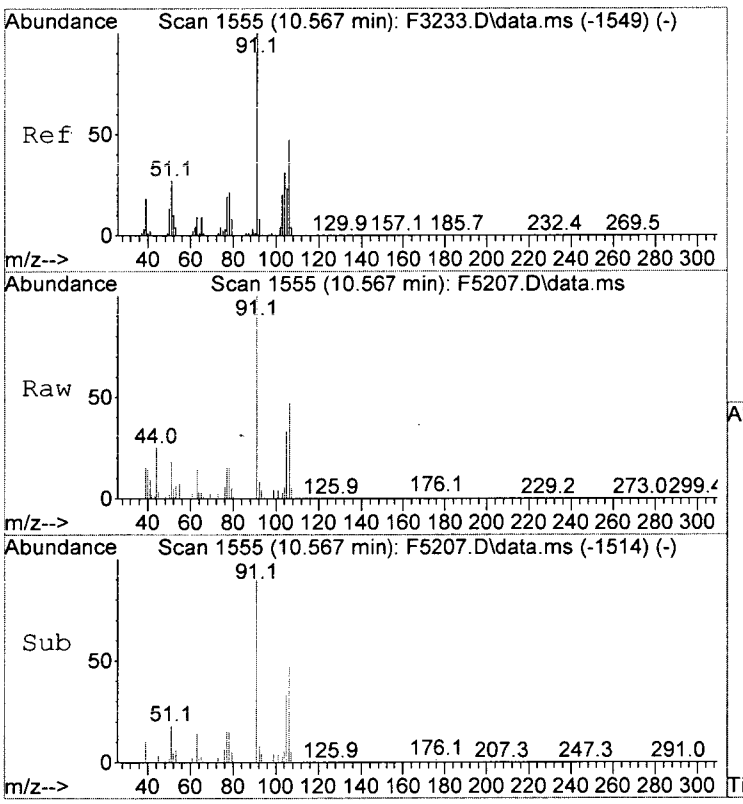


#81
Ethylbenzene
Concen: 0.23 ug/L
RT: 10.097 min Scan# 1478
Delta R.T. -0.006 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion:106 Resp: 1946

Ion	Ratio	Lower	Upper
106	100		
91	284.5	292.1	332.1#
65	34.7	9.7	49.7

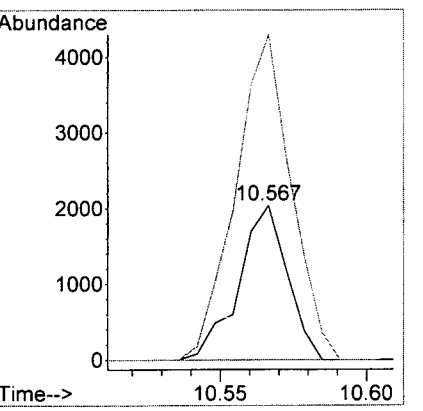




#83
o-Xylene
Concen: 0.22 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F5207.D
Acq: 21 Dec 2015 9:21 pm

Tgt Ion:106 Resp: 2352

Ion	Ratio	Lower	Upper
106	100		
91	210.7	194.2	234.2



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1425
Date Received: 12/16/15

Sample Name: AL-1
Lab Code: R1510962-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	10	U	10	3.6	10	NA	12/22/15 19:00		477582	
1,1,2,2-Tetrachloroethane	10	U	10	2.5	10	NA	12/22/15 19:00		477582	
1,1,2-Trichloroethane	10	U	10	3.5	10	NA	12/22/15 19:00		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	3.1	10	NA	12/22/15 19:00		477582	
1,1-Dichloroethane (1,1-DCA)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,1-Dichloroethene (1,1-DCE)	**24**		10	5.7	10	NA	12/22/15 19:00		477582	
1,2,3-Trichlorobenzene	10	U	10	8.2	10	NA	12/22/15 19:00		477582	
1,2,4-Trichlorobenzene	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
1,2-Dibromo-3-chloropropane (DBCP)	20	U	20	7.4	10	NA	12/22/15 19:00		477582	
1,2-Dibromoethane	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
1,2-Dichlorobenzene	10	U	10	2.1	10	NA	12/22/15 19:00		477582	
1,2-Dichloroethane	10	U	10	3.6	10	NA	12/22/15 19:00		477582	
1,2-Dichloropropane	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,3-Dichlorobenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,4-Dichlorobenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
1,4-Dioxane	400	U	400	200	10	NA	12/22/15 19:00		477582	
2-Butanone (MEK)	50	U	50	8.2	10	NA	12/22/15 19:00		477582	
2-Hexanone	50	U	50	17	10	NA	12/22/15 19:00		477582	
4-Methyl-2-pentanone	50	U	50	6.7	10	NA	12/22/15 19:00		477582	
Acetone	50	U	50	13	10	NA	12/22/15 19:00		477582	
Benzene	**9.5**	J	10	2.0	10	NA	12/22/15 19:00		477582	
Bromochloromethane	10	U	10	3.2	10	NA	12/22/15 19:00		477582	
Bromodichloromethane	10	U	10	3.2	10	NA	12/22/15 19:00		477582	
Bromoform	10	U	10	4.2	10	NA	12/22/15 19:00		477582	
Bromomethane	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Carbon Disulfide	10	U	10	2.2	10	NA	12/22/15 19:00		477582	
Carbon Tetrachloride	10	U	10	4.5	10	NA	12/22/15 19:00		477582	
Chlorobenzene	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Chloroethane	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
Chloroform	10	U	10	2.5	10	NA	12/22/15 19:00		477582	
Chloromethane	10	U	10	2.1	10	NA	12/22/15 19:00		477582	
Cyclohexane	**5.2**	J	10	2.5	10	NA	12/22/15 19:00		477582	
Dibromochloromethane	10	U	10	3.1	10	NA	12/22/15 19:00		477582	
Dichlorodifluoromethane (CFC 12)	10	U	10	4.7	10	NA	12/22/15 19:00		477582	
Dichloromethane	10	U	10	6.0	10	NA	12/22/15 19:00		477582	
Ethylbenzene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1425
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	AL-1	**Units:**	µg/L
Lab Code:	R1510962-010	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Methyl Acetate	20	U	20	4.3	10	NA	12/22/15 19:00		477582	
Methyl tert-Butyl Ether	10	U	10	2.9	10	NA	12/22/15 19:00		477582	
Methylcyclohexane	10	U	10	2.7	10	NA	12/22/15 19:00		477582	
Styrene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Tetrachloroethene (PCE)	10	U	10	3.0	10	NA	12/22/15 19:00		477582	
Toluene	**3.1**	J	10	2.0	10	NA	12/22/15 19:00		477582	
Trichloroethene (TCE)	**88**		10	2.2	10	NA	12/22/15 19:00		477582	
Trichlorofluoromethane (CFC 11)	10	U	10	2.0	10	NA	12/22/15 19:00		477582	
Vinyl Chloride	**850**	D	25	8.0	25	NA	12/23/15 12:18		477634	
cis-1,2-Dichloroethene	**3200**	D	25	7.5	25	NA	12/23/15 12:18		477634	
cis-1,3-Dichloropropene	10	U	10	2.4	10	NA	12/22/15 19:00		477582	
m,p-Xylenes	20	U	20	3.4	10	NA	12/22/15 19:00		477582	
o-Xylene	**2.4**	J	10	2.0	10	NA	12/22/15 19:00		477582	
trans-1,2-Dichloroethene	**10**		10	3.4	10	NA	12/22/15 19:00		477582	
trans-1,3-Dichloropropene	10	U	10	2.0	10	NA	12/22/15 19:00		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85-122	12/22/15 19:00	
Dibromofluoromethane	103	89-119	12/22/15 19:00	
Toluene-d8	103	87-121	12/22/15 19:00	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5228.D
Acq On : 22 Dec 2015 7:00 pm
Operator : F. Naegler
Sample : R1510962-010|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 15:48:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.665	168	602341	50.00	ug/L		0.00	
41) 1,4-Difluorobenzene	6.714	114	916651	50.00	ug/L		0.00	
70) d5-Chlorobenzene	9.957	117	791633	50.00	ug/L		0.00	
90) 1,4-Dichlorobenzene-d4	11.987	152	400197	50.00	ug/L		0.00	
System Monitoring Compounds								
43) surr4,Dibrflmethane	5.513	113	290595	51.68	ug/L		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.36%					
46) surr1,1,2-dichloroetha...	6.025	65	380994	50.38	ug/L		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.76%					
64) SURR3,Toluene-d8	8.488	98	1079079	51.67	ug/L		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.34%					
69) SURR2,BFB	11.018	95	409863	49.14	ug/L		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.28%					
Target Compounds							Qvalue	
4) Vinyl Chloride	1.373	62	753898	74.95	ug/L		98	
13) 1,1-Diclethene	2.361	96	11388	2.38	ug/L	#	71	
15) Acetone	2.404	43	2490	0.46	ug/L		82	
26) trans-1,2-Dichloroethene	3.166	96	5560	1.03	ug/L	#	74	
33) cis-1,2-Dichloroethene	4.617	96	1807740	296.53	ug/L		96	E
42) Cyclohexane	5.598	41	5052m	0.52	ug/L			
47) Benzene	6.104	78	23280	0.95	ug/L		95	
53) Trichloroethene	7.031	130	55444	8.82	ug/L		98	
54) Methylcyclohexane	7.244	55	2523m	0.23	ug/L			
65) Toluene	8.561	91	7681	0.31	ug/L		97	
83) o-Xylene	10.567	106	2519	0.24	ug/L	#	57	

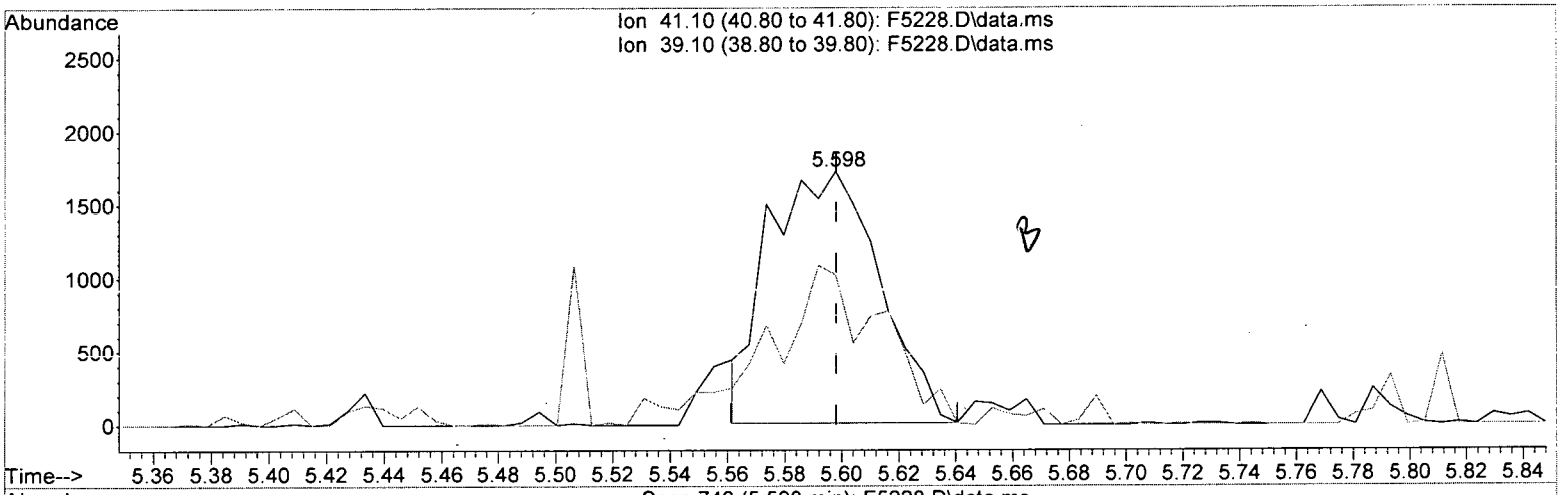
(#) = qualifier out of range (m) = manual integration (+) = signals summed

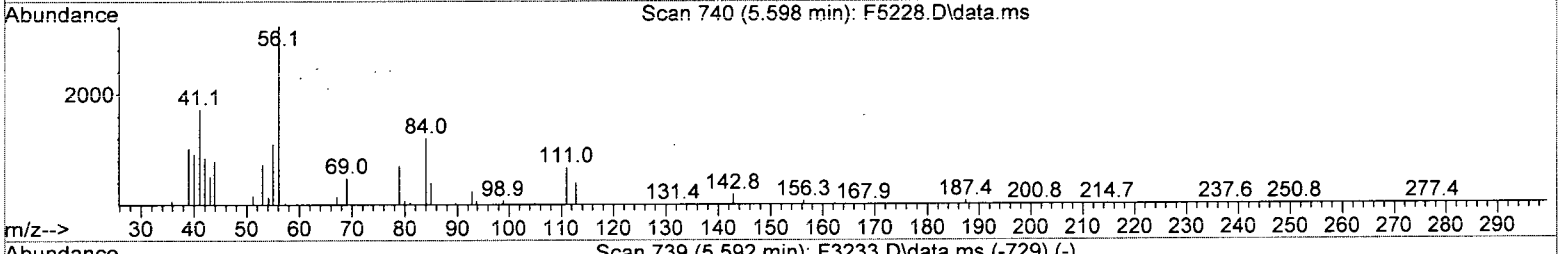
Report + Rpt 1/25
FW 12/29/15

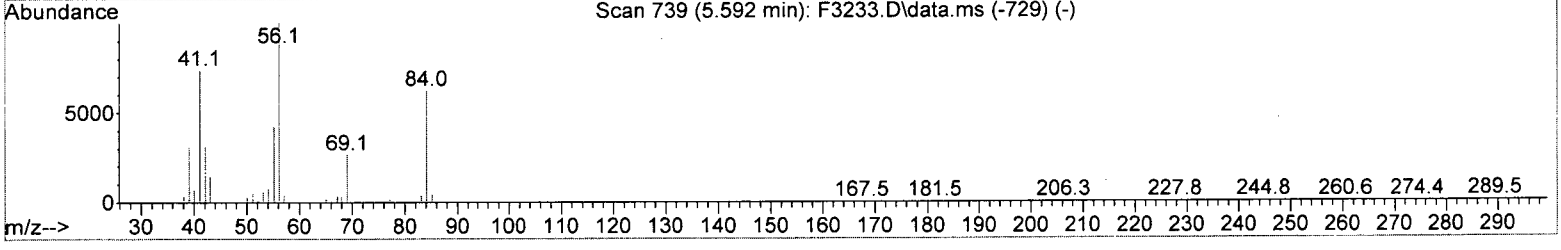
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5228.D
Acq On : 22 Dec 2015 7:00 pm
Operator : F. Naegler
Sample : R1510962-010|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 19:14:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5228.D\data.ms

(42) Cyclohexane (P)

5.598min (-0.000) 0.47 ug/L

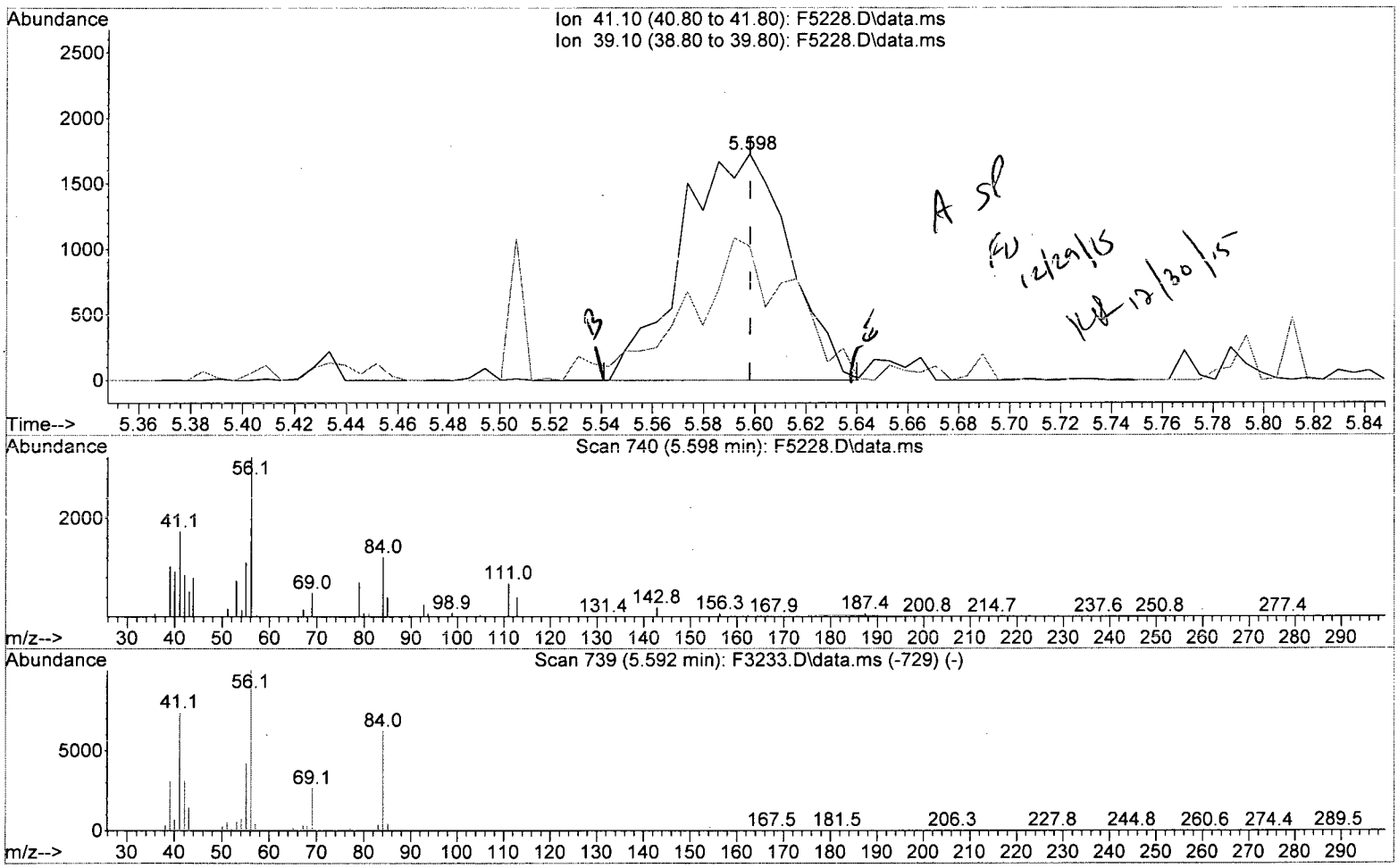
response 4600

Ion	Exp%	Act%
41.10	100	100
39.10	42.10	59.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5228.D
Acq On : 22 Dec 2015 7:00 pm
Operator : F. Naegler
Sample : R1510962-010|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 19:14:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5228.D\data.ms

(42) Cyclohexane (P)

5.598min (-0.000) 0.52 ug/L m

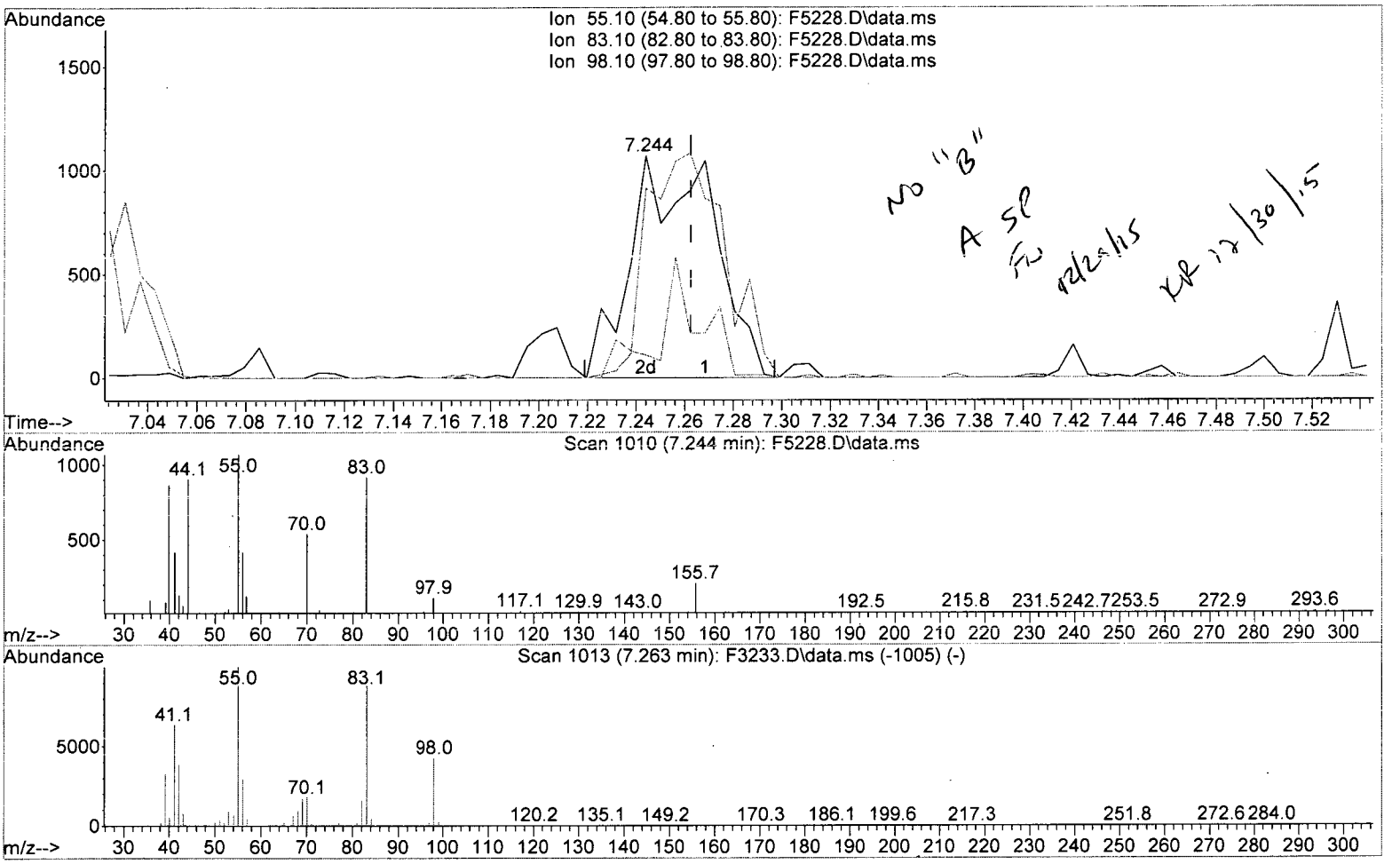
response 5052

Ion	Exp%	Act%
41.10	100	100
39.10	42.10	59.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5228.D
Acq On : 22 Dec 2015 7:00 pm
Operator : F. Naegler
Sample : R1510962-010|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 22 19:14:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5228.D\data.ms

(54) Methylcyclohexane (P)

7.244min (-0.019) 0.23 ug/L m

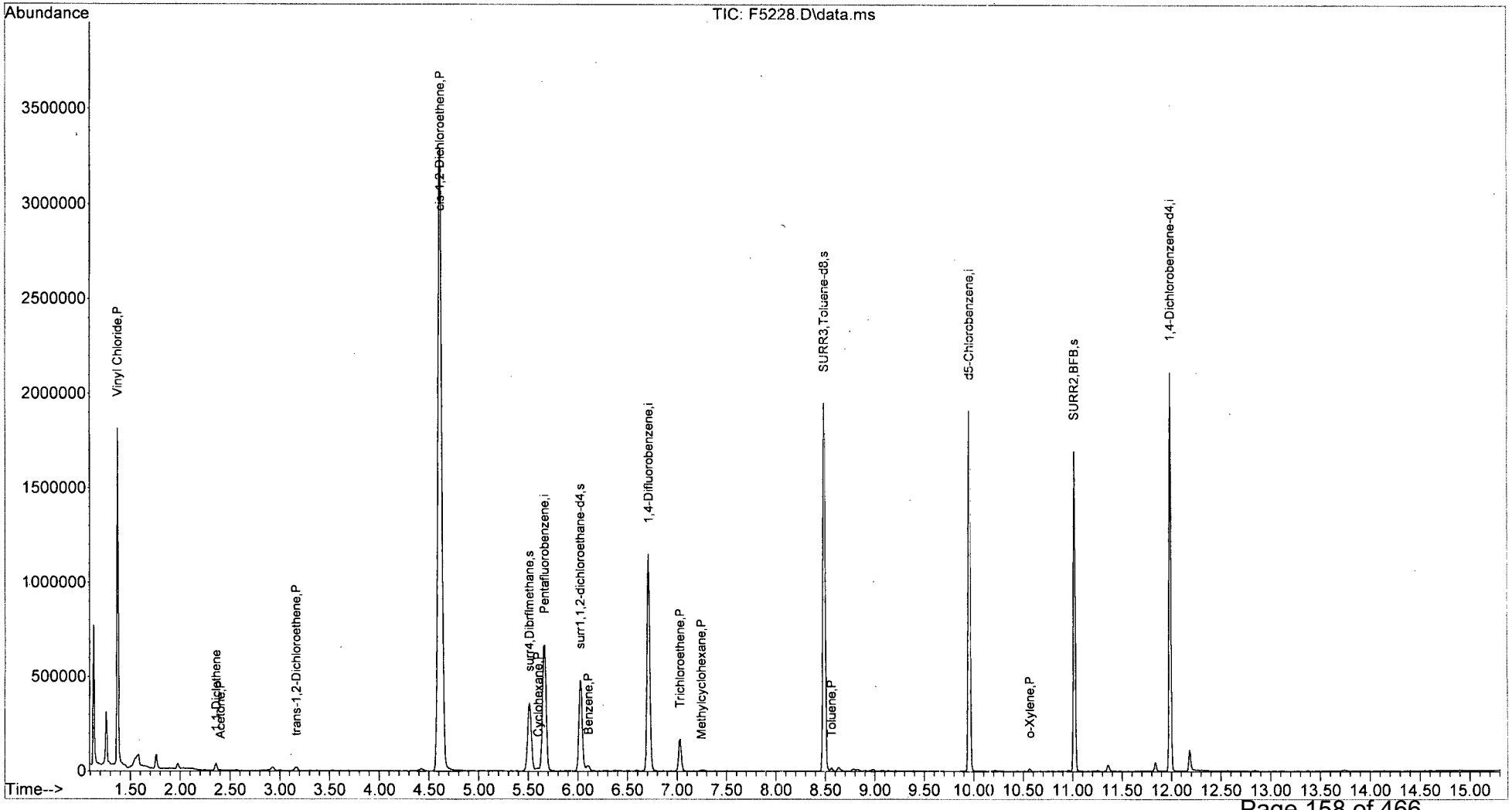
response 2523

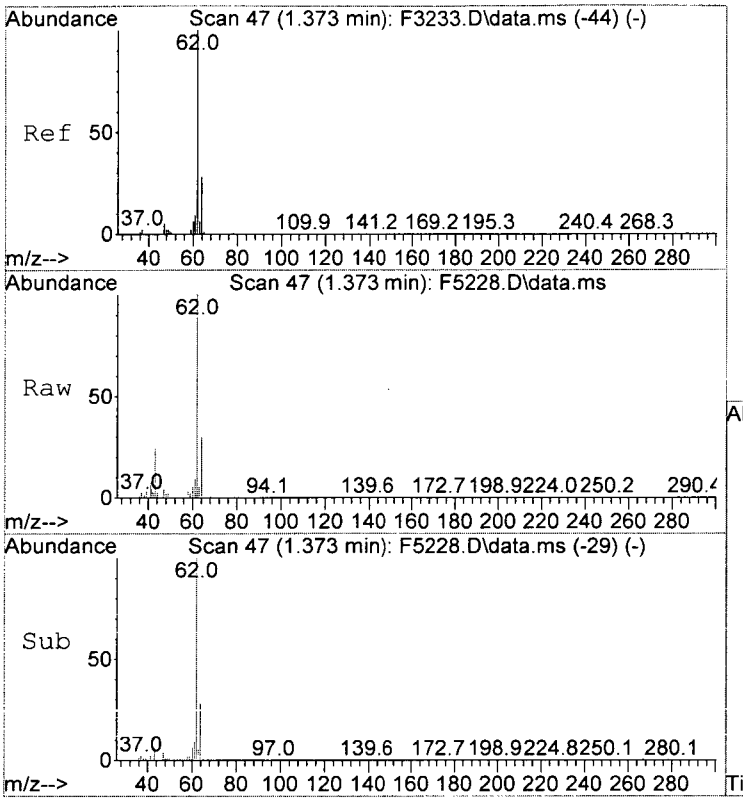
Ion	Exp%	Act%
55.10	100	100
83.10	89.20	85.50
98.10	42.10	10.29#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5228.D
Acq On : 22 Dec 2015 7:00 pm
Operator : F. Naegler
Sample : R1510962-010|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 29 15:48:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

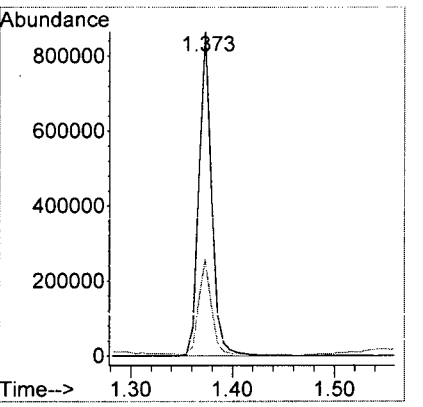


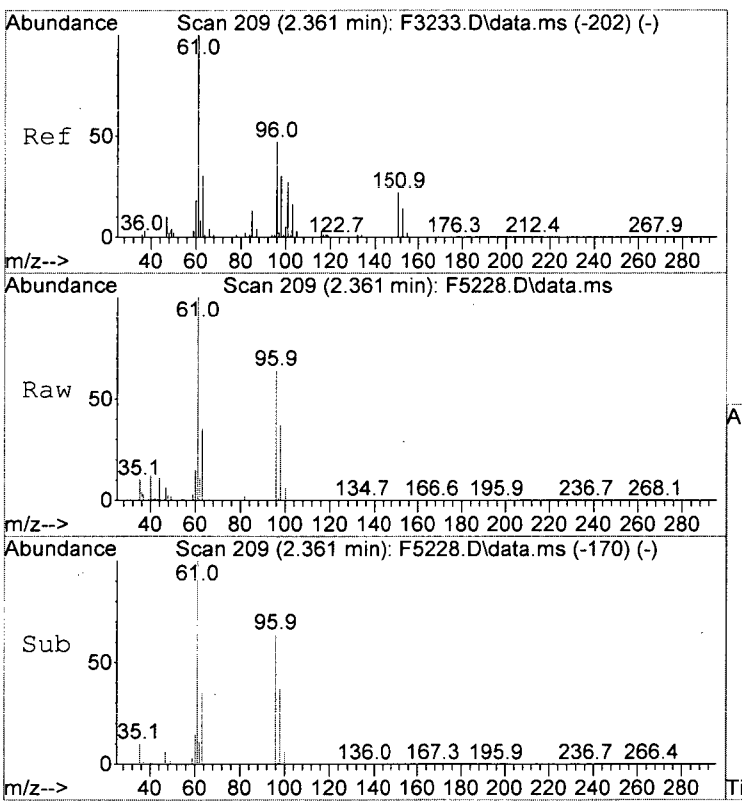


#4
Vinyl Chloride
Concen: 74.95 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 62 Resp: 753898

Ion	Ratio	Lower	Upper
62	100		
64	29.7	8.4	48.4

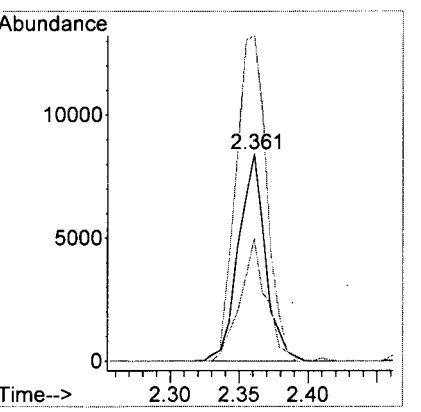


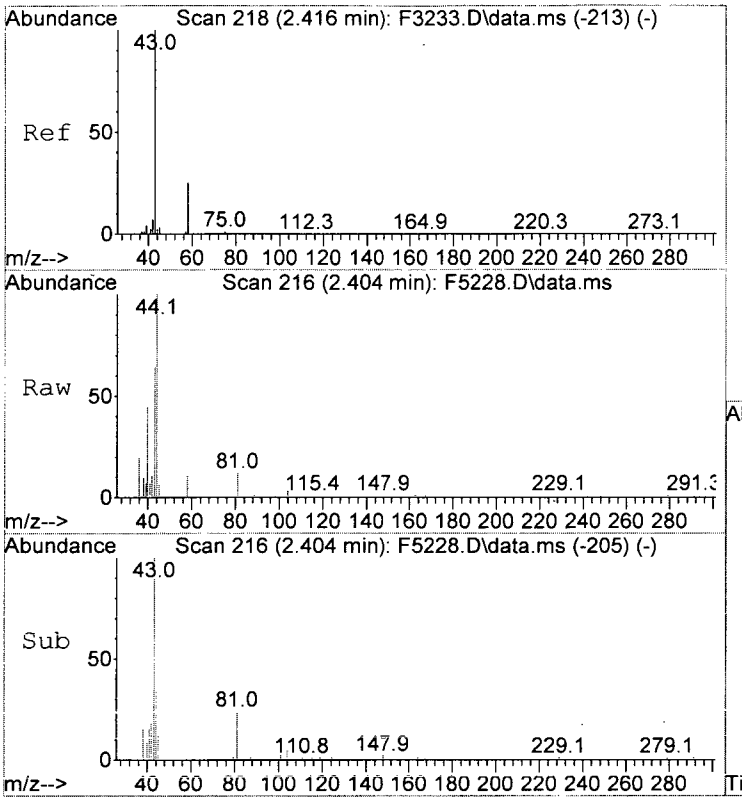


#13
1,1-Diclethene
Concen: 2.38 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 96 Resp: 11388

Ion	Ratio	Lower	Upper
96	100		
98	58.9	44.2	84.2
61	157.3	192.7	232.7#

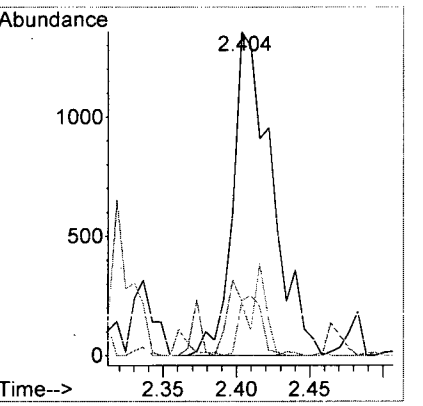


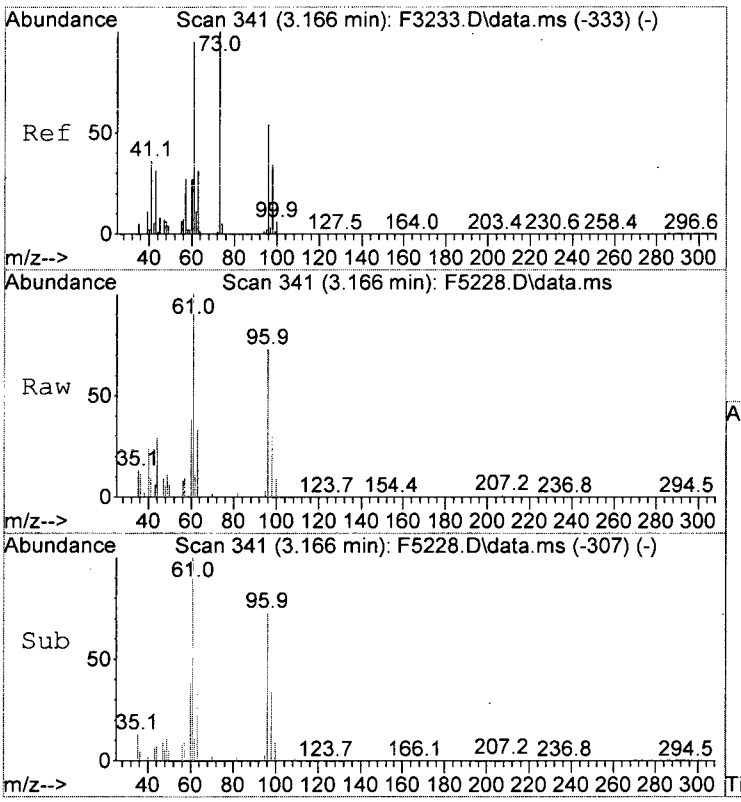


#15
Acetone
Concen: 0.46 ug/L
RT: 2.404 min Scan# 216
Delta R.T. -0.006 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 43 Resp: 2490

Ion	Ratio	Lower	Upper
43	100		
58	16.9	4.3	44.3
42	16.4	0.0	27.3

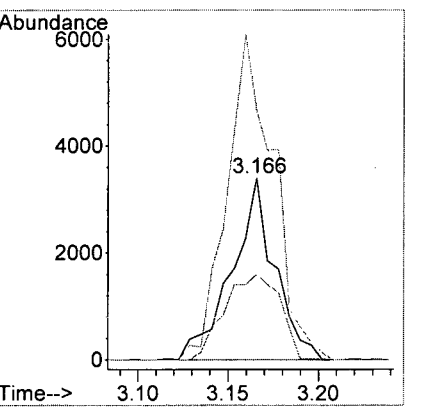


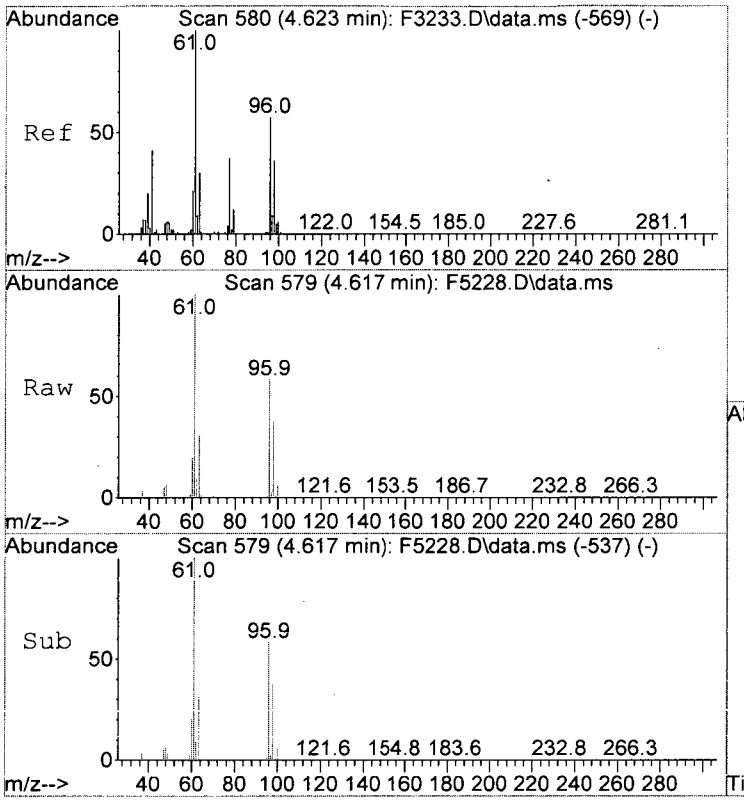


#26
trans-1,2-Dichloroethene
Concen: 1.03 ug/L
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 96 Resp: 5560

Ion	Ratio	Lower	Upper
96	100		
98	46.7	42.3	82.3
61	136.7	155.3	195.3#

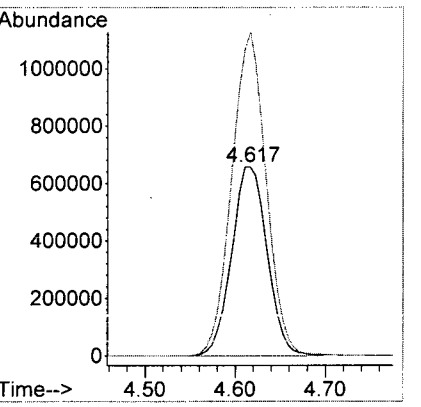


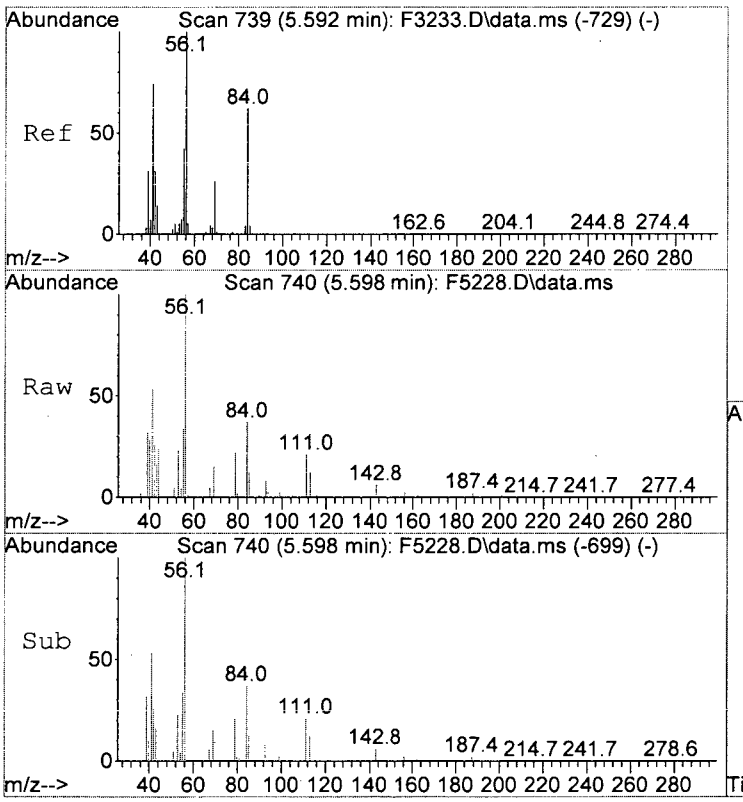


#33
cis-1,2-Dichloroethene
Concen: 296.53 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 96 Resp: 1807740

Ion	Ratio	Lower	Upper
96	100		
61	171.5	157.0	197.0

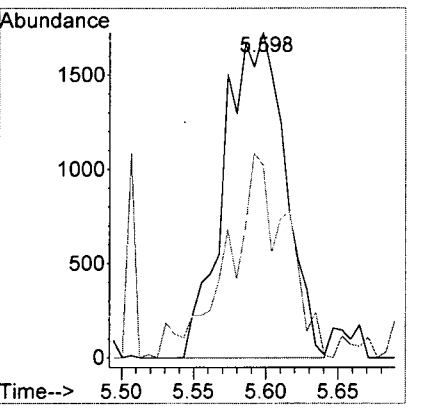


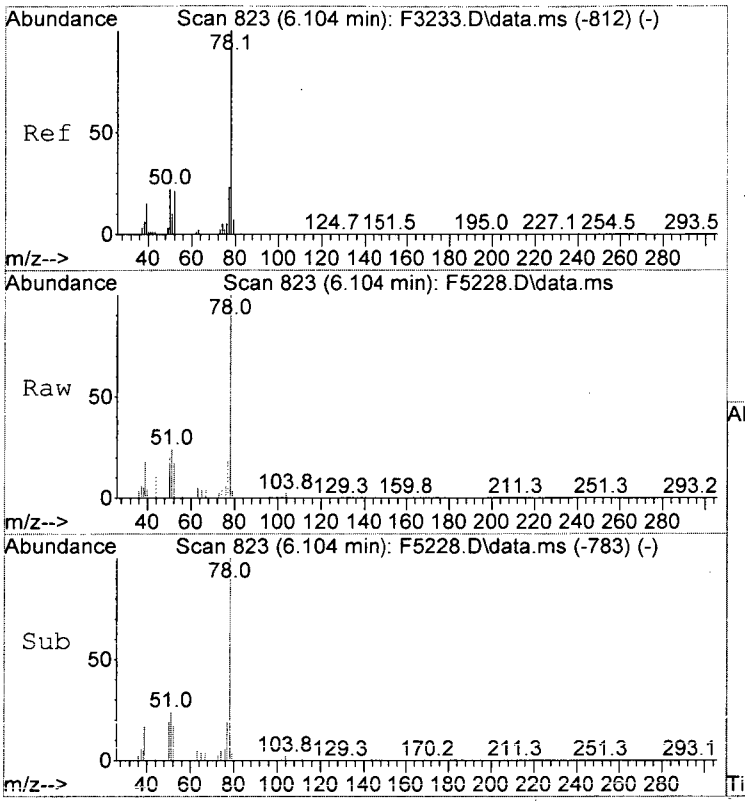


#42
Cyclohexane
Concen: 0.52 ug/L m
RT: 5.598 min Scan# 740
Delta R.T. -0.000 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 41 Resp: 5052

Ion	Ratio	Lower	Upper
41	100		
39	59.3	22.1	62.1

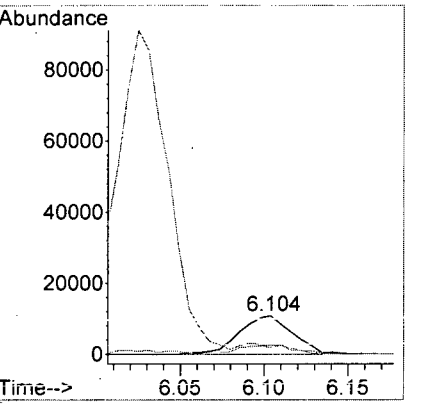


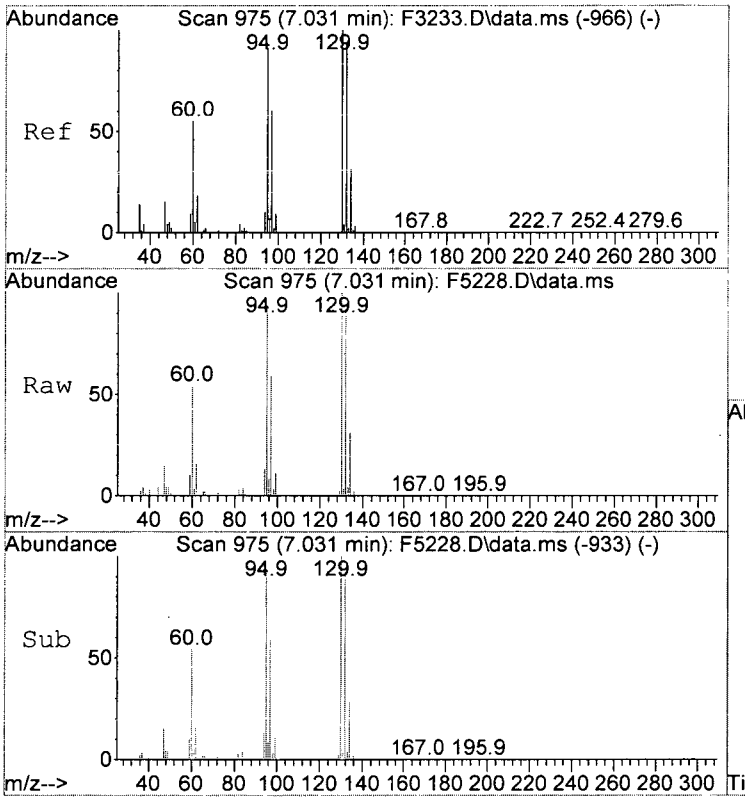


#47
Benzene
Concen: 0.95 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 78 Resp: 23280

Ion	Ratio	Lower	Upper
78	100		
51	23.9	3.0	43.0
52	17.2	1.6	41.6

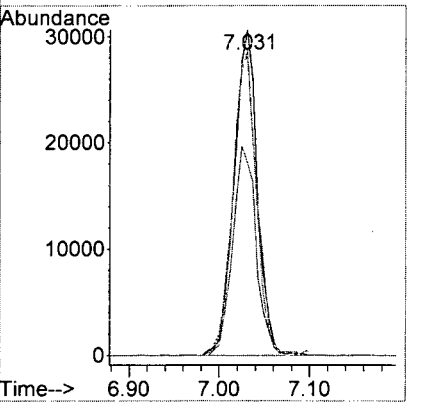


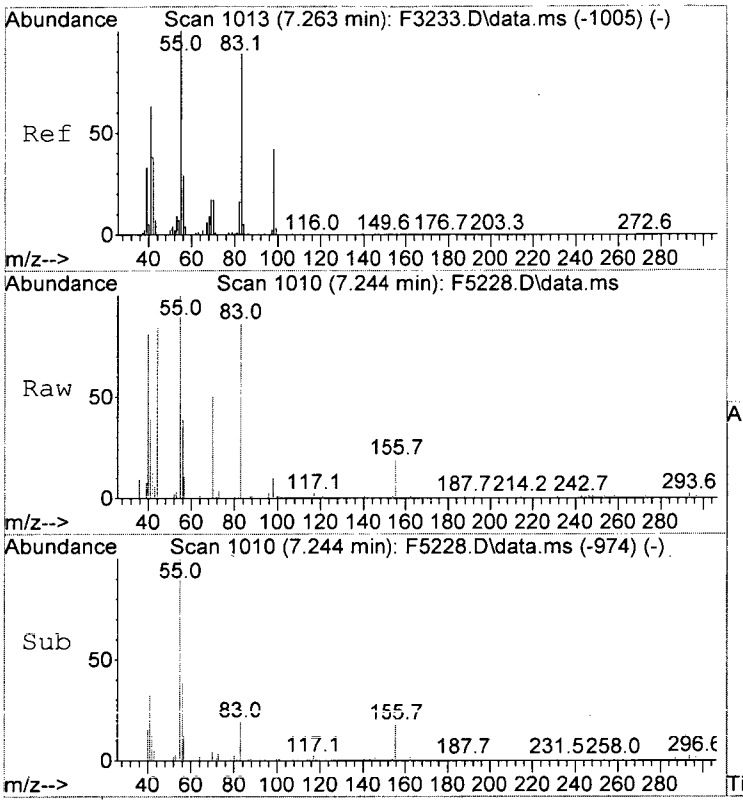


#53
Trichloroethene
Concen: 8.82 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.006 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion:130 Resp: 55444

Ion	Ratio	Lower	Upper
130	100		
132	91.8	74.1	114.1
95	93.8	70.9	110.9
97	59.4	39.7	79.7

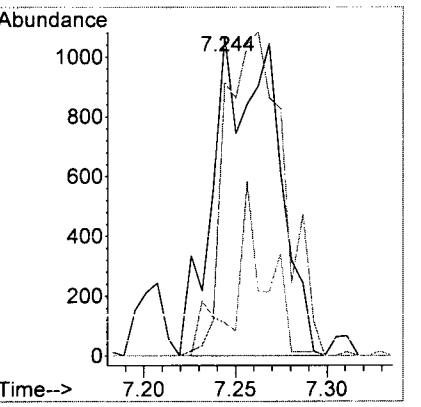


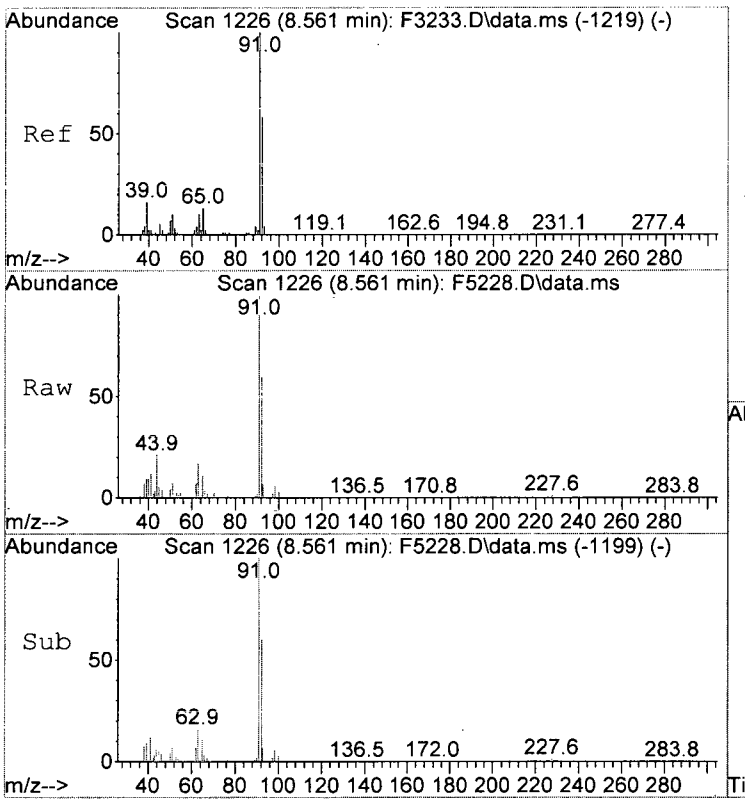


#54
Methylcyclohexane
Concen: 0.23 ug/L m
RT: 7.244 min Scan# 1010
Delta R.T. -0.019 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 55 Resp: 2523

Ion	Ratio	Lower	Upper
55	100		
83	85.5	69.2	109.2
98	10.3	22.1	62.1#

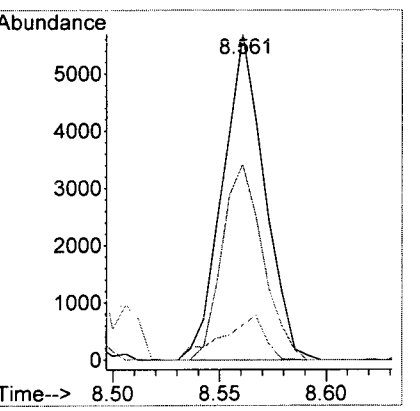


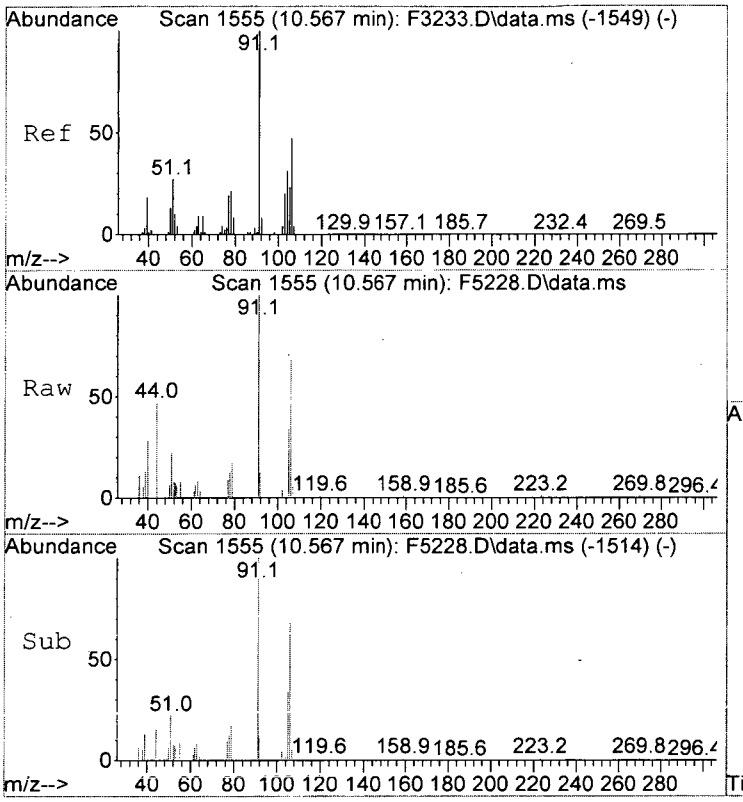


#65
Toluene
Concen: 0.31 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion: 91 Resp: 7681

Ion	Ratio	Lower	Upper
91	100		
92	60.2	38.2	78.2
65	13.9	0.0	33.1

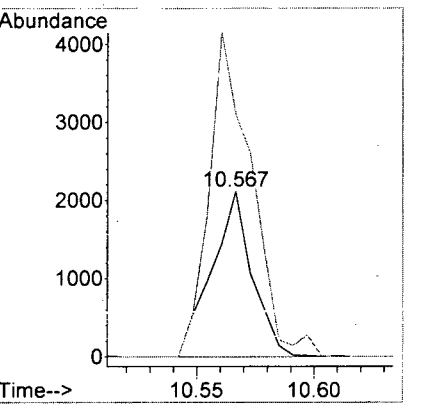




#83
o-Xylene
Concen: 0.24 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F5228.D
Acq: 22 Dec 2015 7:00 pm

Tgt Ion:106 Resp: 2519

Ion	Ratio	Lower	Upper
106	100		
91	146.6	194.2	234.2#



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5256.D
Acq On : 23 Dec 2015 12:18 pm
Operator : F. Naegler
Sample : R1510962-010|25.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 12:35:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

DL

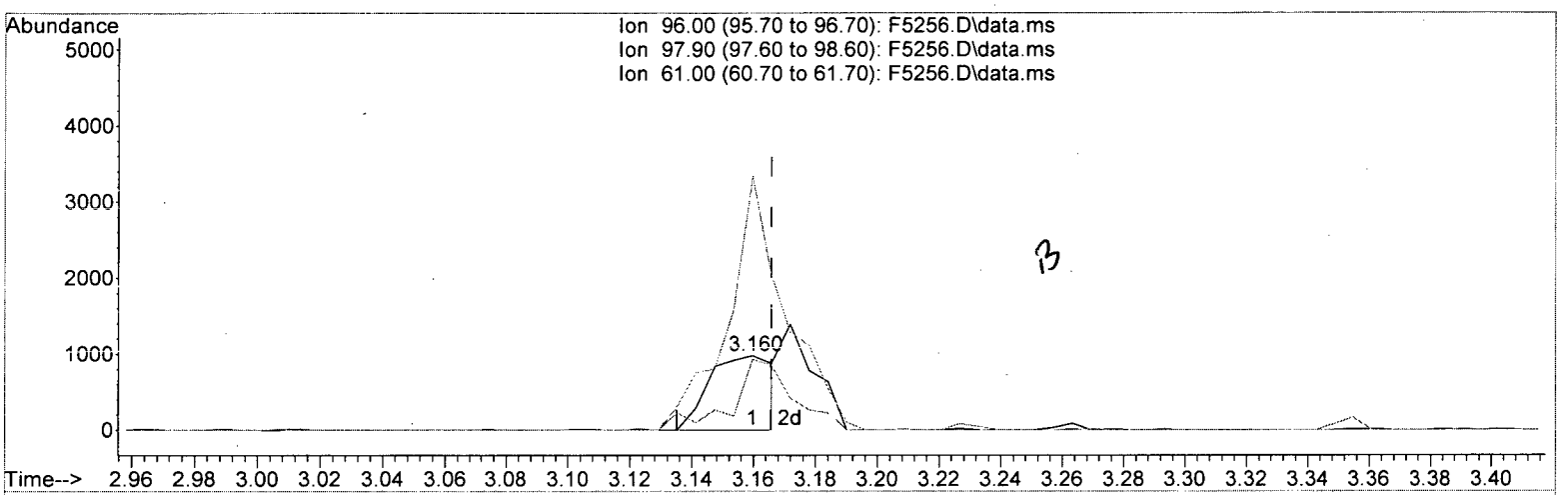
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.659	168	641635	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	967987	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	844241	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	434028	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	303403	51.09	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.18%				
46) surr1,1,2-dichloroetha...	6.031	65	410369	51.38	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.76%				
64) SURR3,Toluene-d8	8.488	98	1139485	51.66	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.32%				
69) SURR2,BFB	11.018	95	431434	48.99	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 97.98%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	363233	33.90	ug/L		99
13) 1,1-Diclethene	2.355	96	5846	1.15	ug/L	#	78
15) Acetone	2.410	43	2611	0.45	ug/L		72
26) trans-1,2-Dichloroethene	3.172	96	2447m	0.42	ug/L		
33) cis-1,2-Dichloroethene	4.617	96	818239	126.00	ug/L		93
42) Cyclohexane	5.580	41	3224	0.31	ug/L	#	56
47) Benzene	6.098	78	9374	0.36	ug/L		77
53) Trichloroethene	7.031	130	26420	3.98	ug/L		91

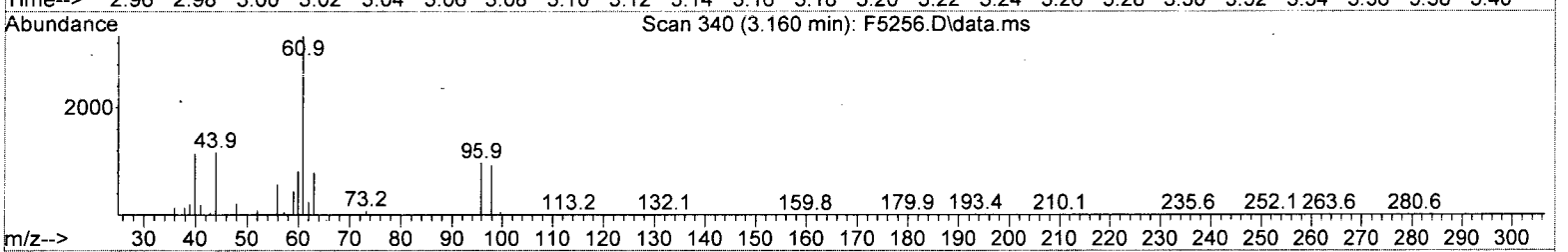
(#) = qualifier out of range (m) = manual integration (+) = signals summed

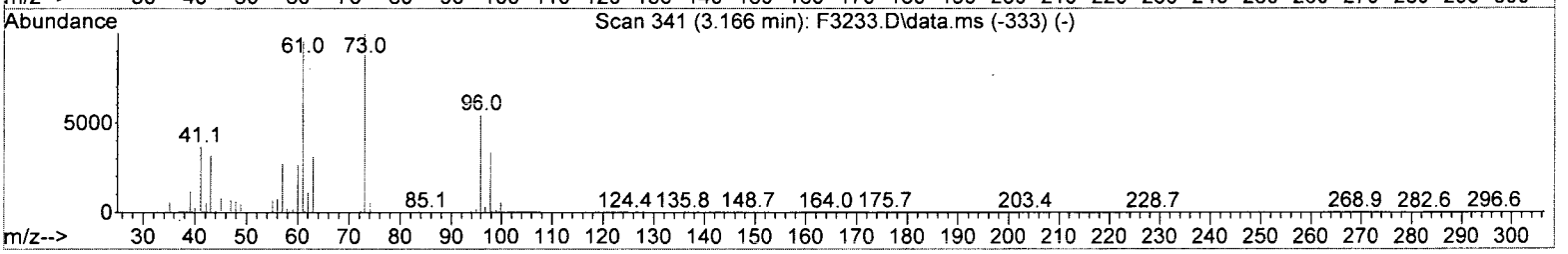
FJ
12/30/15

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5256.D
Acq On : 23 Dec 2015 12:18 pm
Operator : F. Naegler
Sample : R1510962-010|25.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 12:32:50 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5256.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.160min (-0.006) 0.25 ug/L

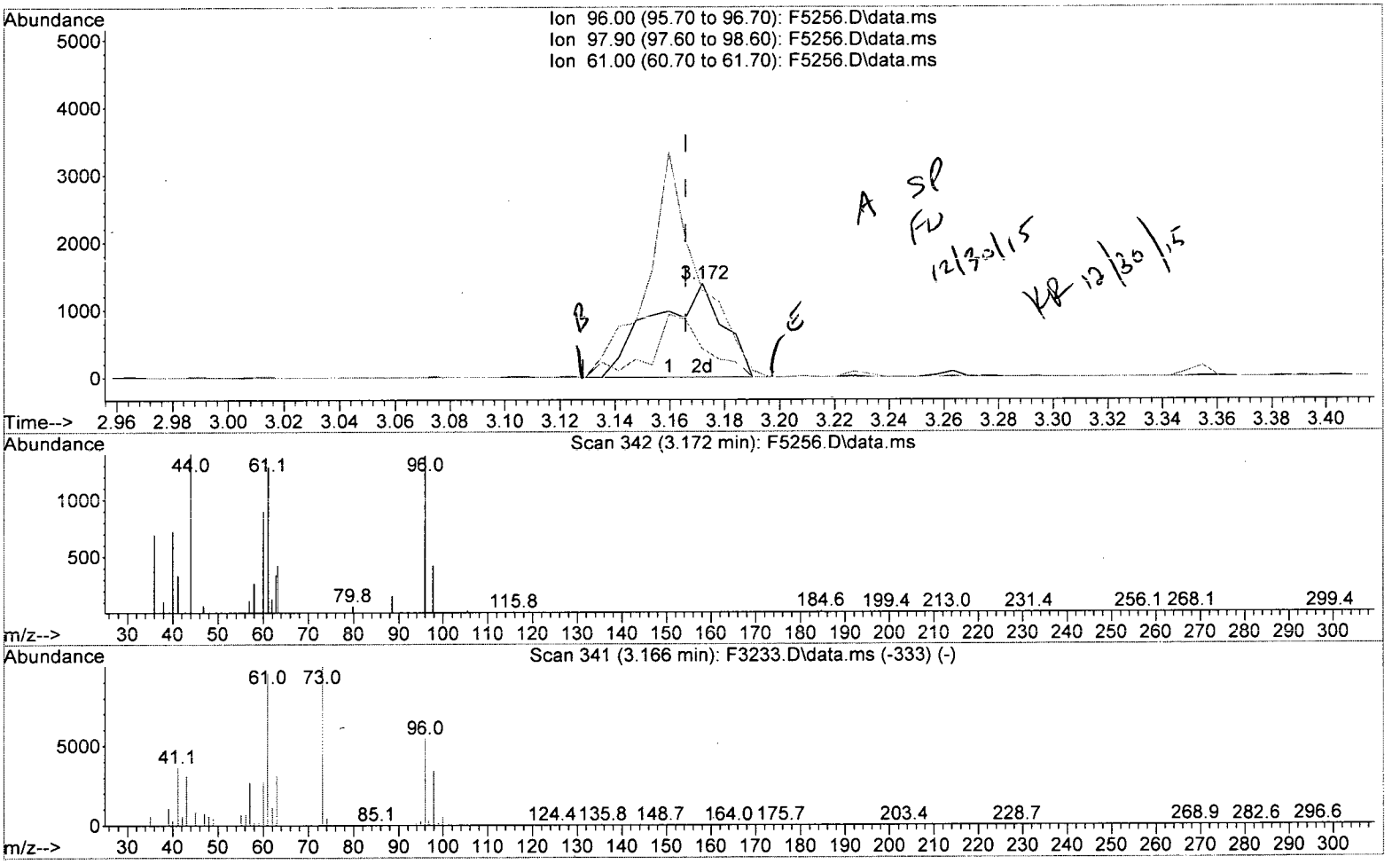
response 1422

Ion	Exp%	Act%
96.00	100	100
97.90	62.30	95.38#
61.00	175.30	341.93#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5256.D
Acq On : 23 Dec 2015 12:18 pm
Operator : F. Naegler
Sample : R1510962-010|25.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 23 12:32:50 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5256.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.172min (+0.006) 0.42 ug/L m

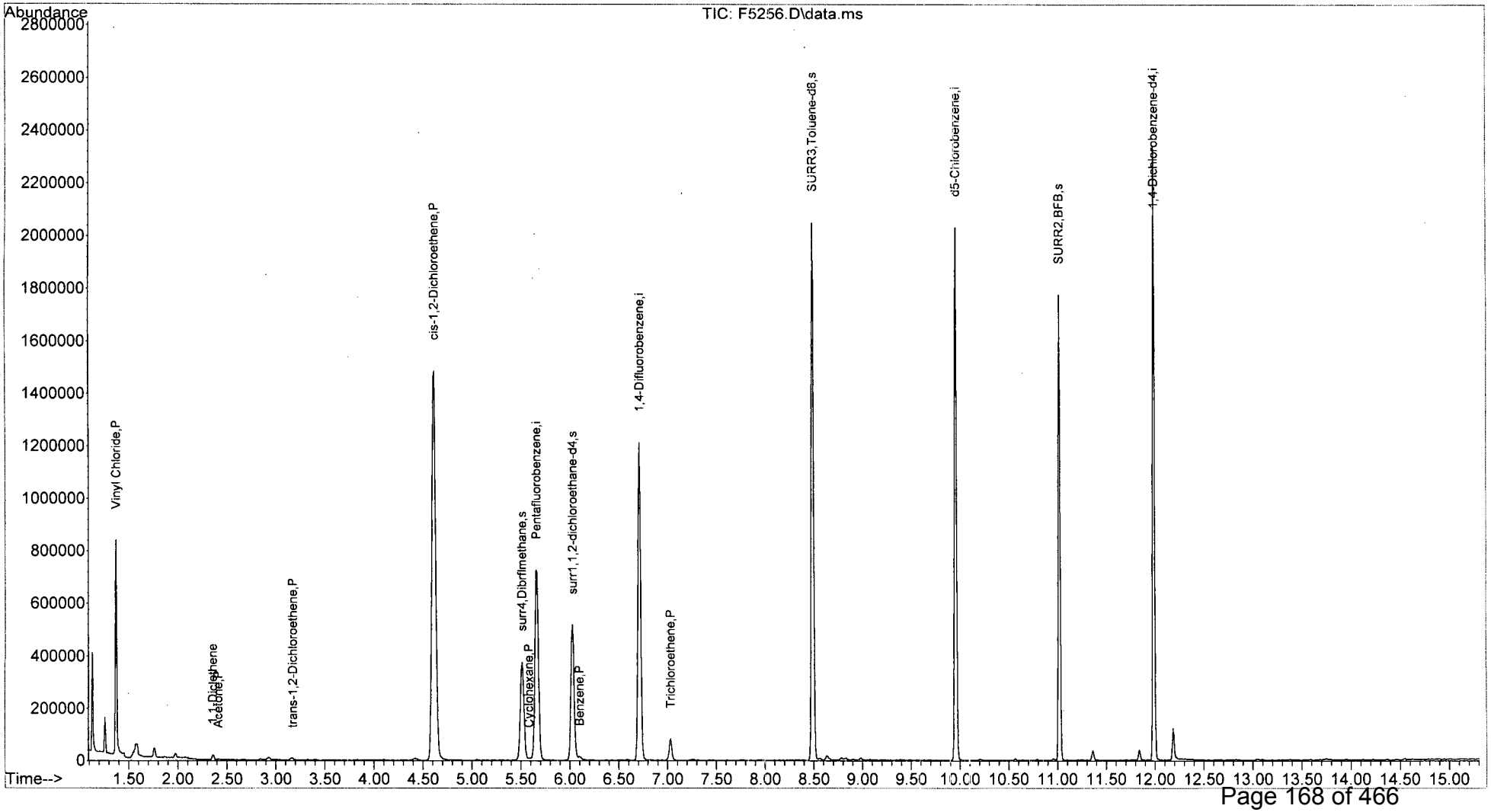
response 2447

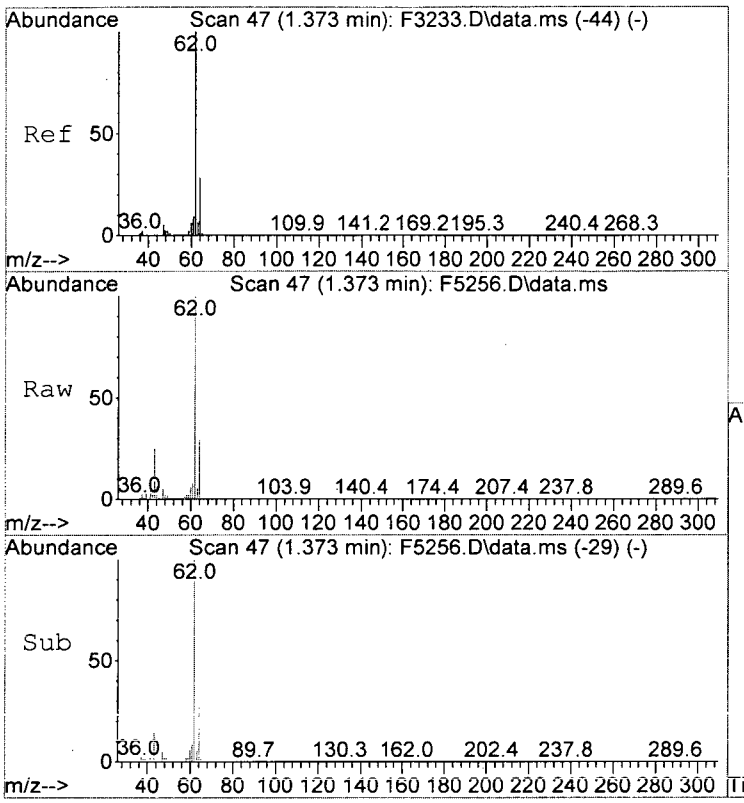
Ion	Exp%	Act%
96.00	100	100
97.90	62.30	30.30#
61.00	175.30	92.71#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5256.D
Acq On : 23 Dec 2015 12:18 pm
Operator : F. Naegler
Sample : R1510962-010|25.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 12:35:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

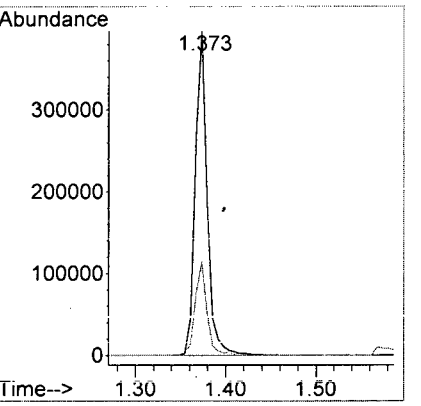


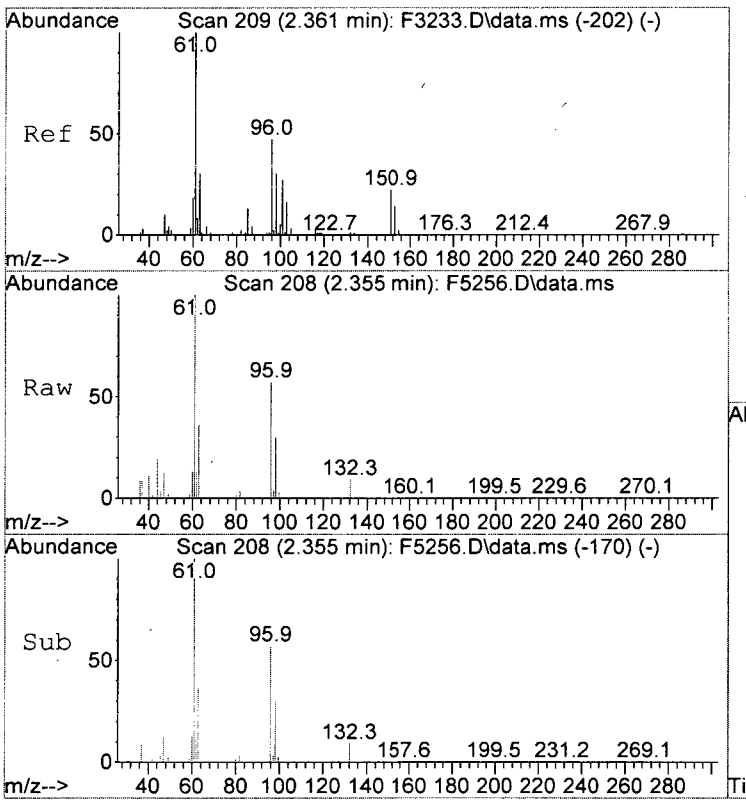


#4
Vinyl Chloride
Concen: 33.90 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 62 Resp: 363233

Ion	Ratio	Lower	Upper
62	100		
64	28.8	8.4	48.4

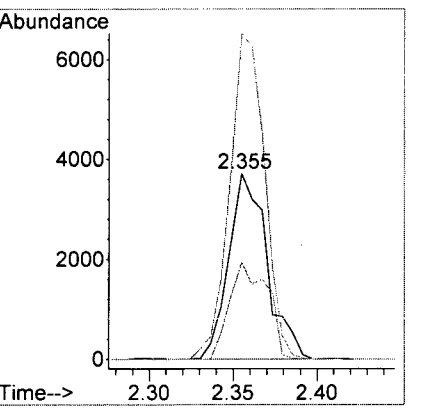


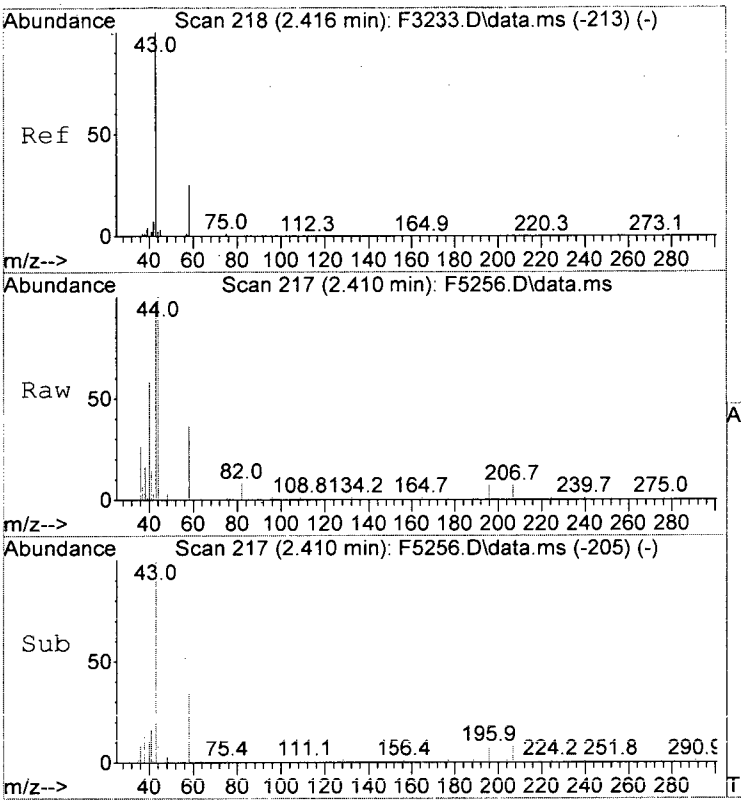


#13
1;1-Diclethene
Concen: 1.15 ug/L
RT: 2.355 min Scan# 208
Delta R.T. -0.018 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 96 Resp: 5846

Ion	Ratio	Lower	Upper
96	100		
98	52.1	44.2	84.2
61	175.7	192.7	232.7#

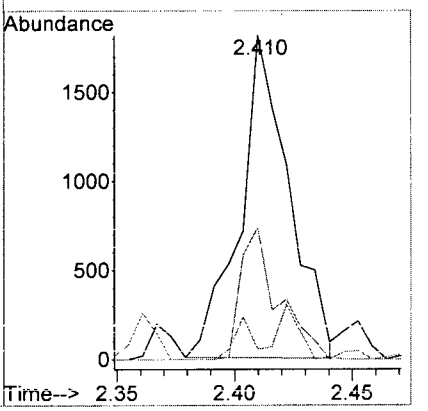


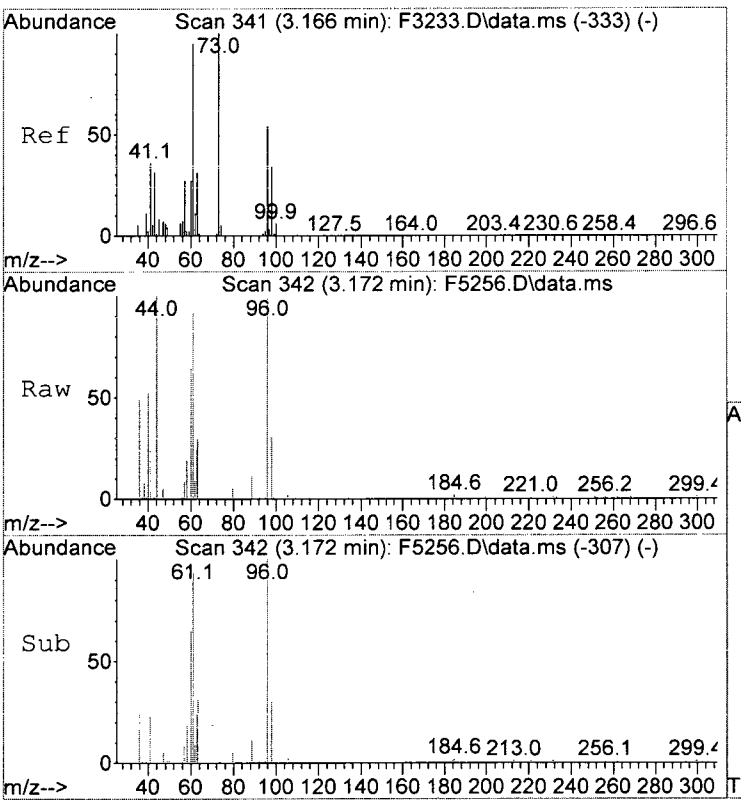


#15
Acetone
Concen: 0.45 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 43 Resp: 2611

Ion	Ratio	Lower	Upper
43	100		
58	40.7	4.3	44.3
42	3.1	0.0	27.3

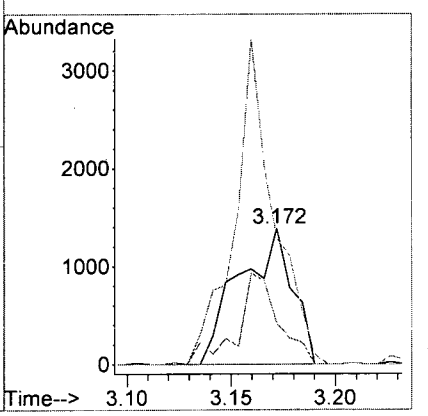


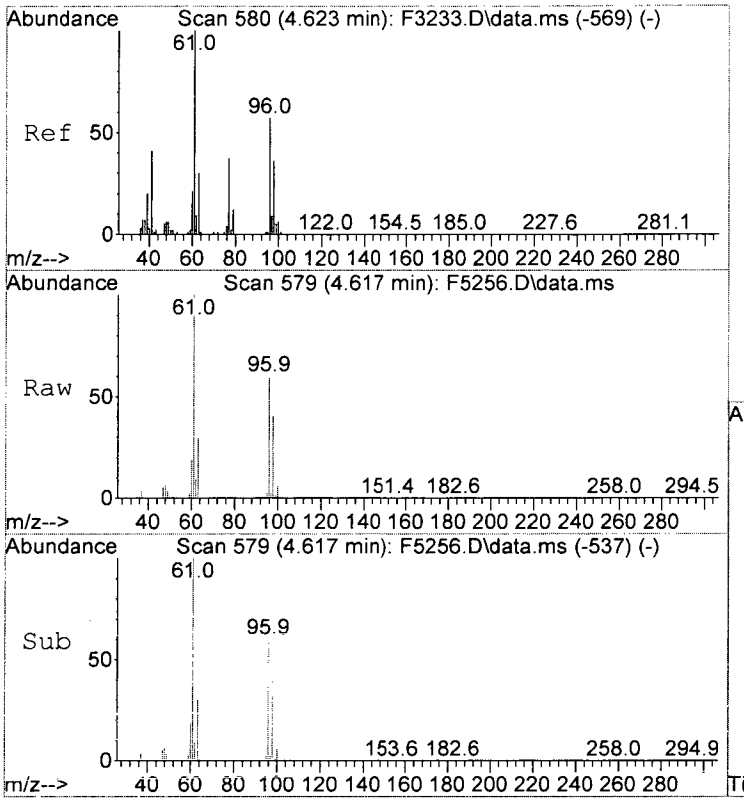


#26
trans-1,2-Dichloroethene
Concen: 0.42 ug/L m
RT: 3.172 min Scan# 342
Delta R.T. 0.006 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 96 Resp: 2447

Ion	Ratio	Lower	Upper
96	100		
98	30.3	42.3	82.3#
61	92.7	155.3	195.3#

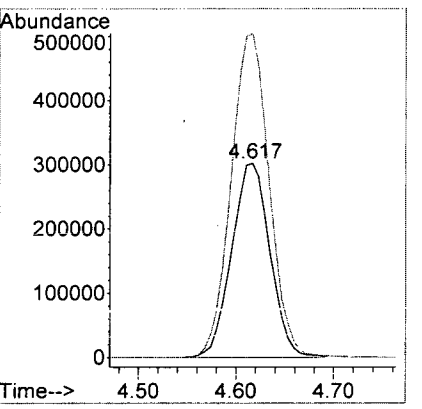


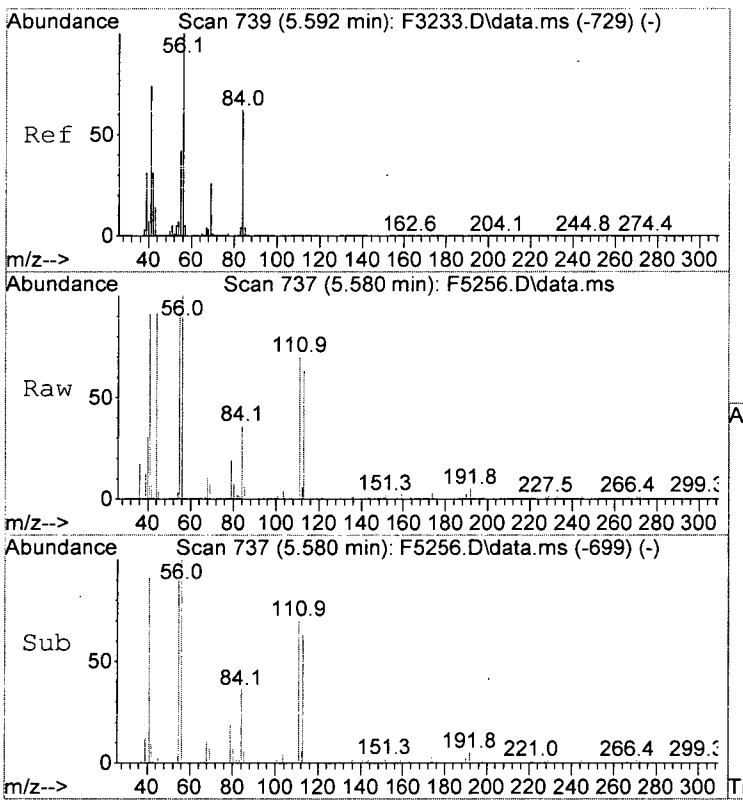


#33
cis-1,2-Dichloroethene
Concen: 126.00 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 96 Resp: 818239

Ion	Ratio	Lower	Upper
96	100		
61	167.0	157.0	197.0

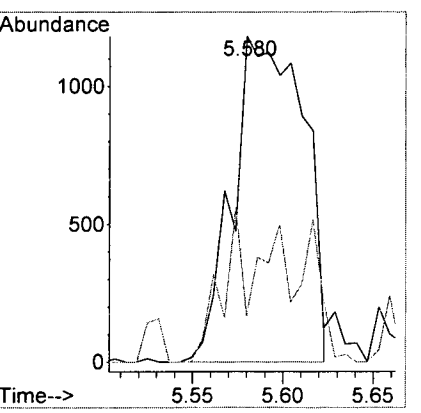


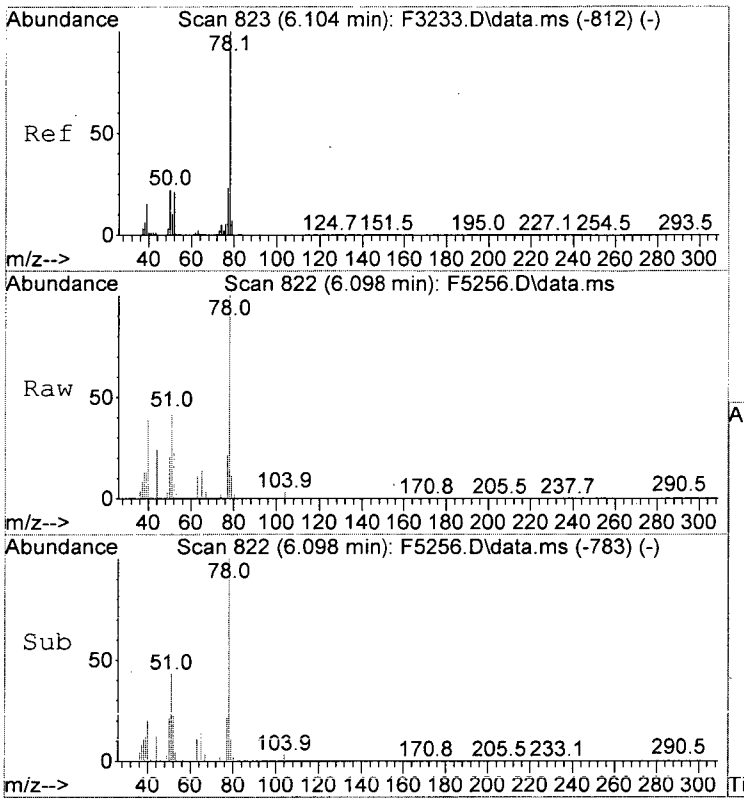


#42
Cyclohexane
Concen: 0.31 ug/L
RT: 5.580 min Scan# 737
Delta R.T. -0.018 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 41 Resp: 3224

Ion	Ratio	Lower	Upper
41	100		
39	14.2	22.1	62.1#

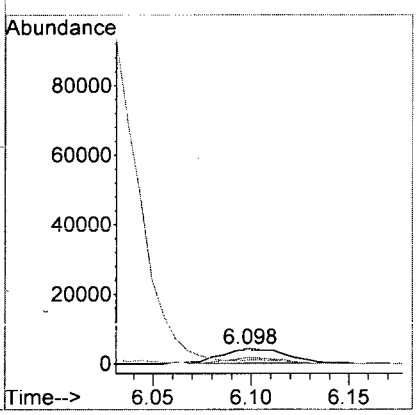


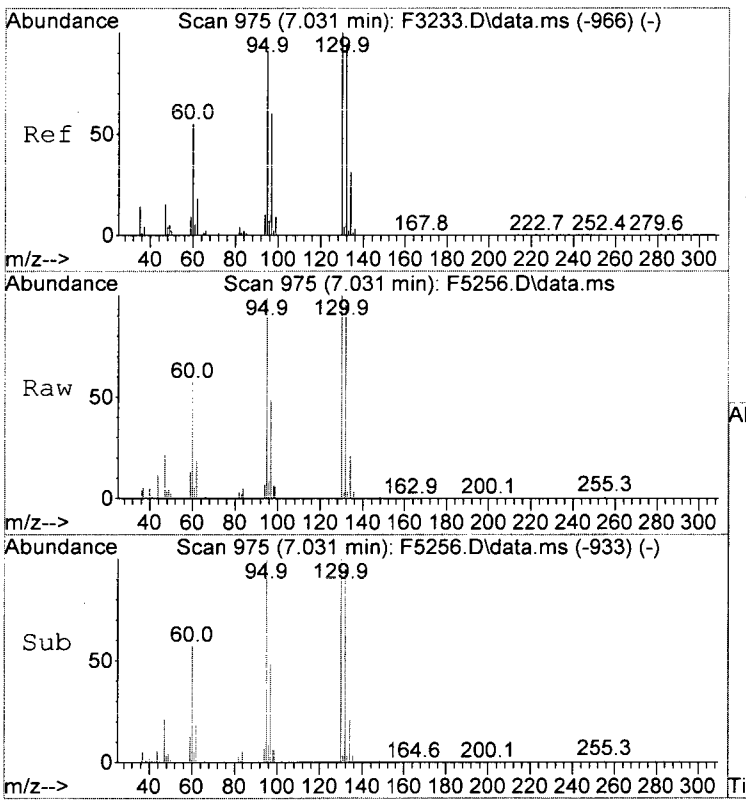


#47
Benzene
Concen: 0.36 ug/L
RT: 6.098 min Scan# 822
Delta R.T. -0.006 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion: 78 Resp: 9374

Ion	Ratio	Lower	Upper
78	100		
51	42.7	3.0	43.0
52	23.4	1.6	41.6

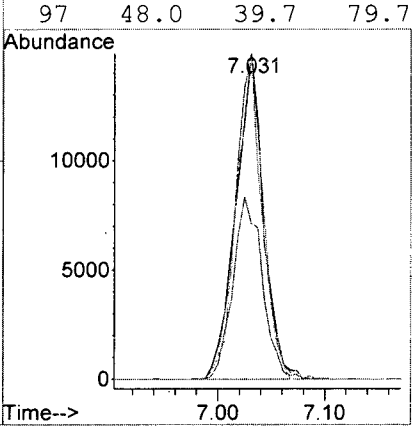




#53
Trichloroethene
Concen: 3.98 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.006 min
Lab File: F5256.D
Acq: 23 Dec 2015 12:18 pm

Tgt Ion:130 Resp: 26420

Ion	Ratio	Lower	Upper
130	100		
132	98.9	74.1	114.1
95	98.7	70.9	110.9
97	48.0	39.7	79.7



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1500
Date Received: 12/16/15

Sample Name: AL-7
Lab Code: R1510962-011

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 18:36		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 18:36		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 18:36		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:36		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 18:36		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 18:36		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 18:36		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 18:36		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 18:36		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 18:36		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 18:36		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 18:36		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 18:36		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 18:36		477582	
Acetone	**1.3**	J	5.0	1.3	1	NA	12/22/15 18:36		477582	
Benzene	**0.23**	J	1.0	0.20	1	NA	12/22/15 18:36		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:36		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 18:36		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 18:36		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 18:36		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 18:36		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 18:36		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 18:36		477582	
Cyclohexane	**0.73**	J	1.0	0.25	1	NA	12/22/15 18:36		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 18:36		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 18:36		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 18:36		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15 1500
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	AL-7	**Units:**	µg/L
Lab Code:	R1510962-011	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 18:36		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 18:36		477582	
Methylcyclohexane	**0.55**	J	1.0	0.27	1	NA	12/22/15 18:36		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 18:36		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Trichloroethene (TCE)	**6.7**		1.0	0.22	1	NA	12/22/15 18:36		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	
Vinyl Chloride	**4.8**		1.0	0.32	1	NA	12/22/15 18:36		477582	
cis-1,2-Dichloroethene	**42**		1.0	0.30	1	NA	12/22/15 18:36		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 18:36		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 18:36		477582	
o-Xylene	**0.31**	J	1.0	0.20	1	NA	12/22/15 18:36		477582	
trans-1,2-Dichloroethene	**0.40**	J	1.0	0.33	1	NA	12/22/15 18:36		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 18:36		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85-122	12/22/15 18:36	
Dibromofluoromethane	102	89-119	12/22/15 18:36	
Toluene-d8	106	87-121	12/22/15 18:36	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 15:45:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	625695	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	945328	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	824846	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	396823	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	295261	50.91	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.82%				
46) surr1,1,2-dichloroetha...	6.025	65	403533	51.74	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.48%				
64) SURR3,Toluene-d8	8.488	98	1138619	52.86	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.72%				
69) SURR2,BFB	11.018	95	431277	50.14	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.28%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	50146	4.80	ug/L	#	54
5) Bromomethane	1.617	94	493	Below Cal		#	35
7) Freon 21	1.855	67	7908	0.66	ug/L		98
13) 1,1-Diclethene	2.361	96	2111	0.42	ug/L		89
15) Acetone	2.404	43	7576	1.34	ug/L		93
23) TBA	2.989	59	702	10.19	ug/L	#	45
26) trans-1,2-Dichloroethene	3.160	96	2225	0.40	ug/L	#	42
33) cis-1,2-Dichloroethene	4.617	96	264326	41.74	ug/L		88
42) Cyclohexane	5.592	41	7338m	0.73	ug/L		
47) Benzene	6.092	78	5822m	0.23	ug/L		
53) Trichloroethene	7.025	130	43259	6.68	ug/L		92
54) Methylcyclohexane	7.262	55	6174m	0.55	ug/L		
83) o-Xylene	10.561	106	3420	0.31	ug/L	#	80

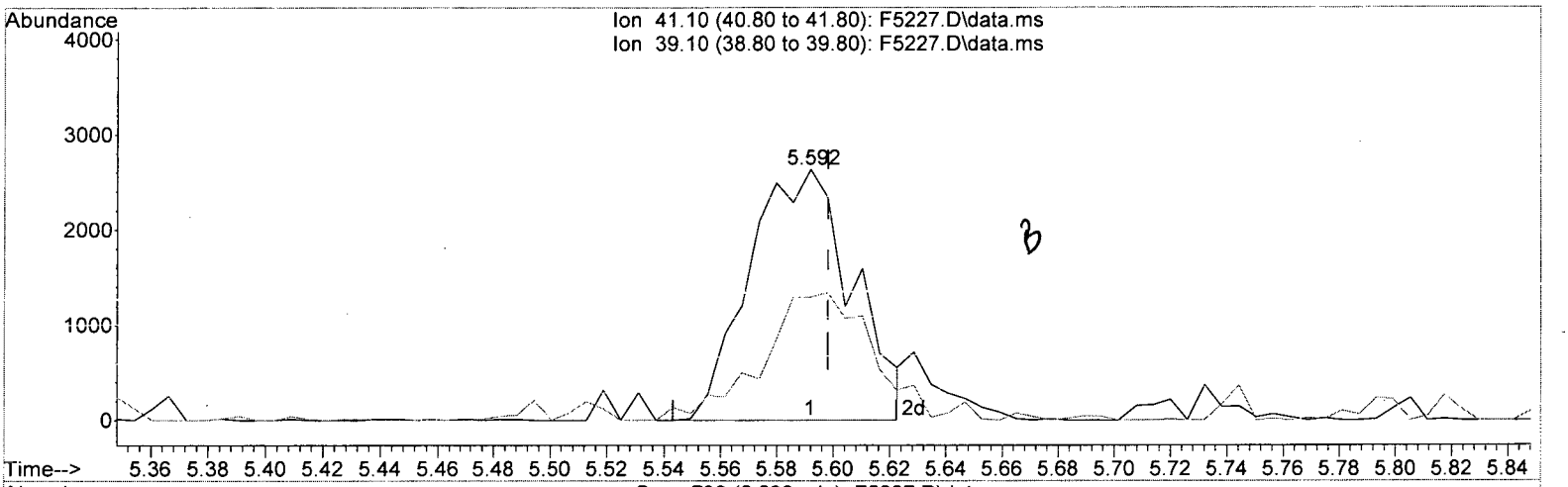
(#) = qualifier out of range (m) = manual integration (+) = signals summed

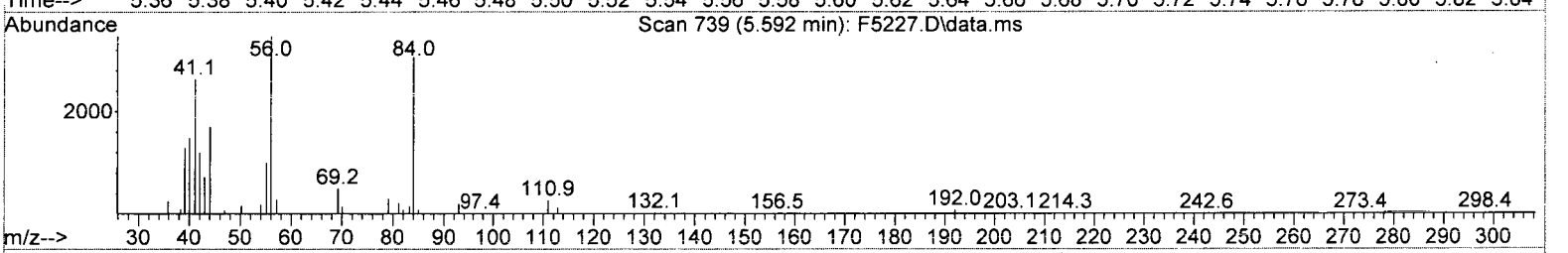
FV 12/29/15

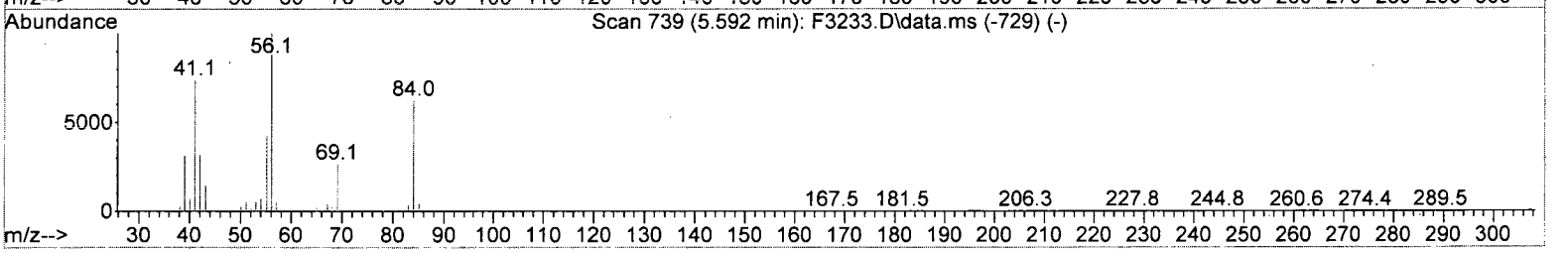
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 18:50:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5227.D\data.ms

(42) Cyclohexane (P)

5.592min (-0.006) 0.66 ug/L

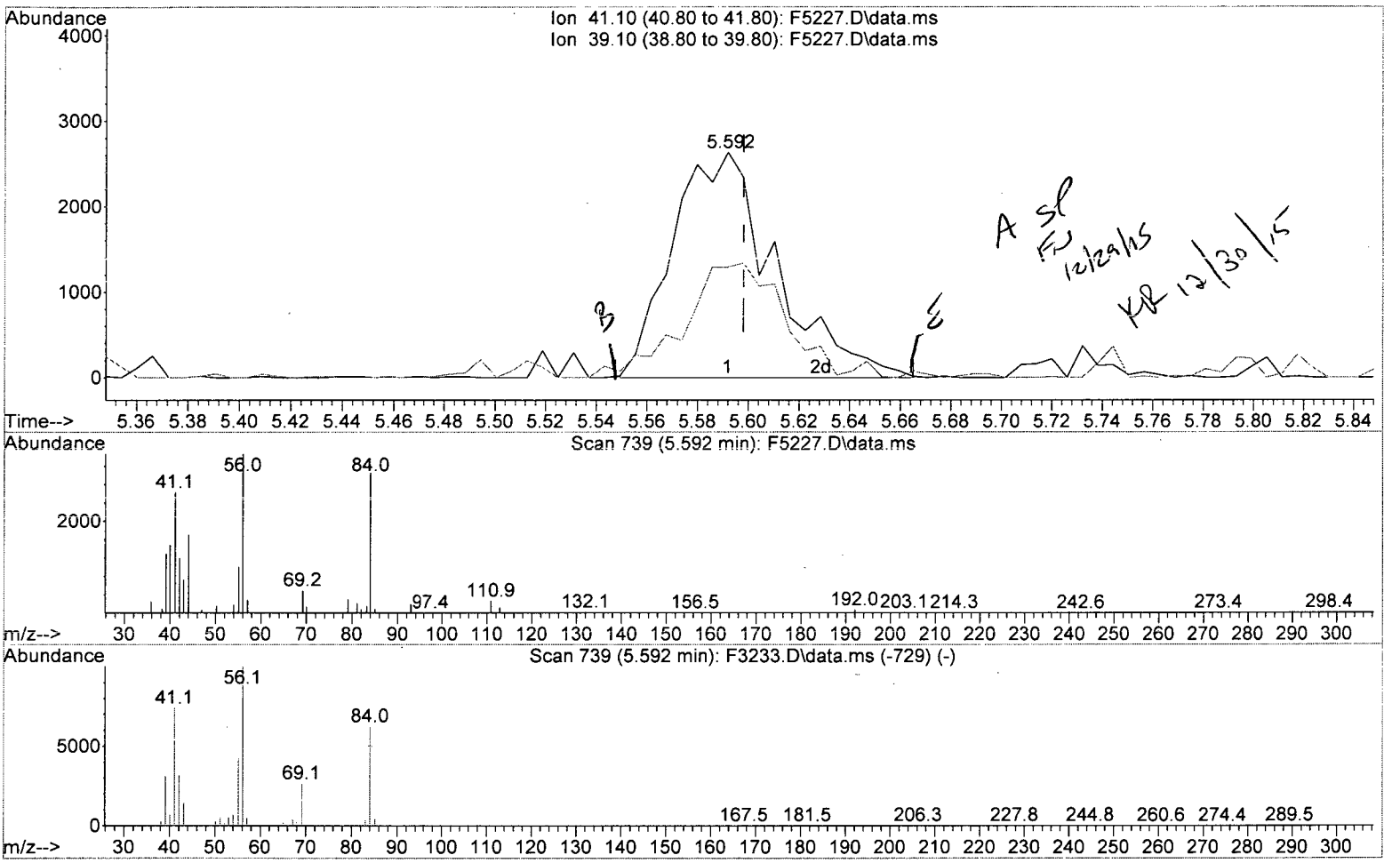
response 6677

Ion	Exp%	Act%
41.10	100	100
39.10	42.10	49.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 18:50:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5227.D\data.ms

(42) Cyclohexane (P)

5.592min (-0.006) 0.73 ug/L m

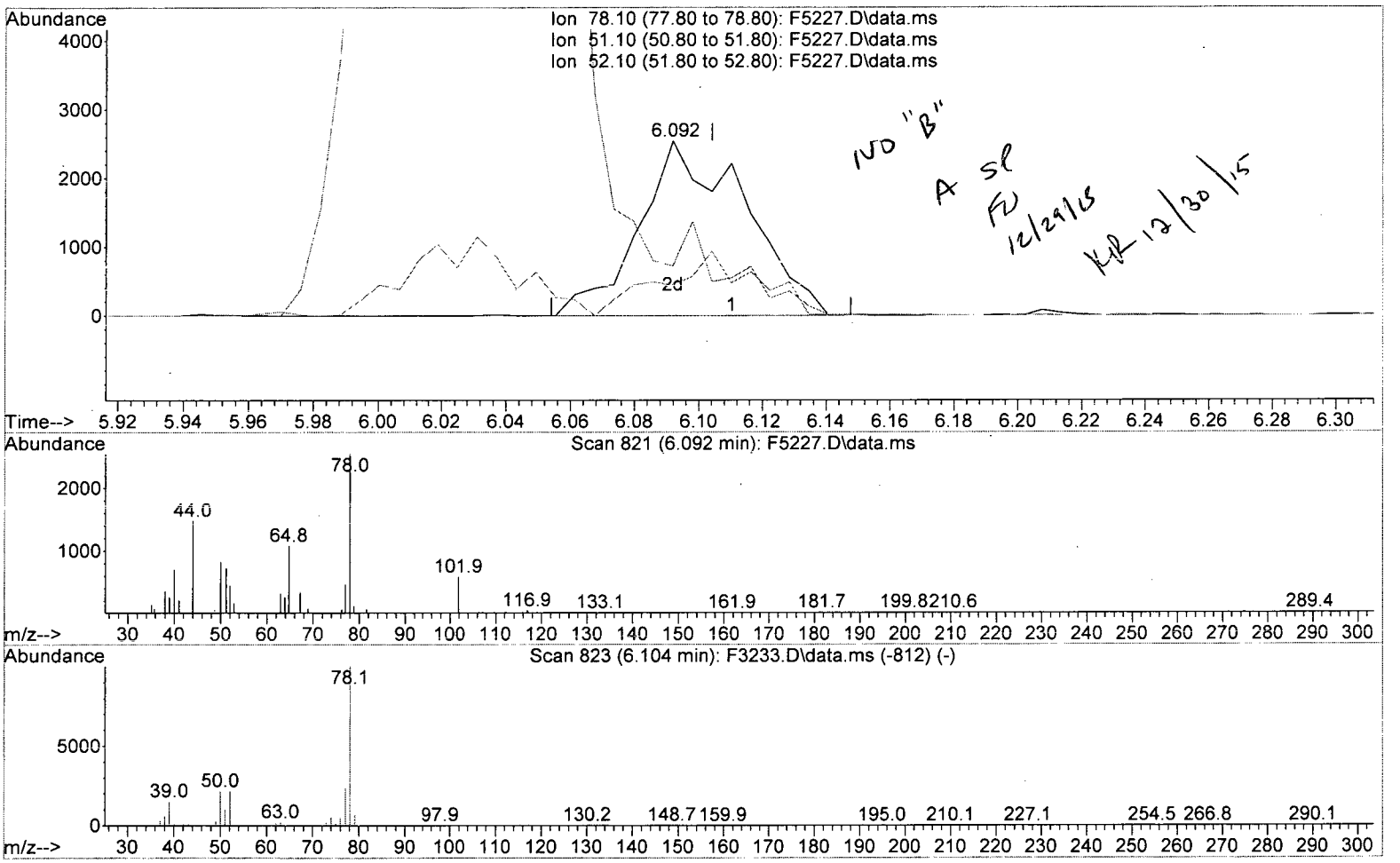
response 7338

Ion	Exp%	Act%
41.10	100	100
39.10	42.10	49.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 18:50:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5227.D\data.ms

(47) Benzene (P)

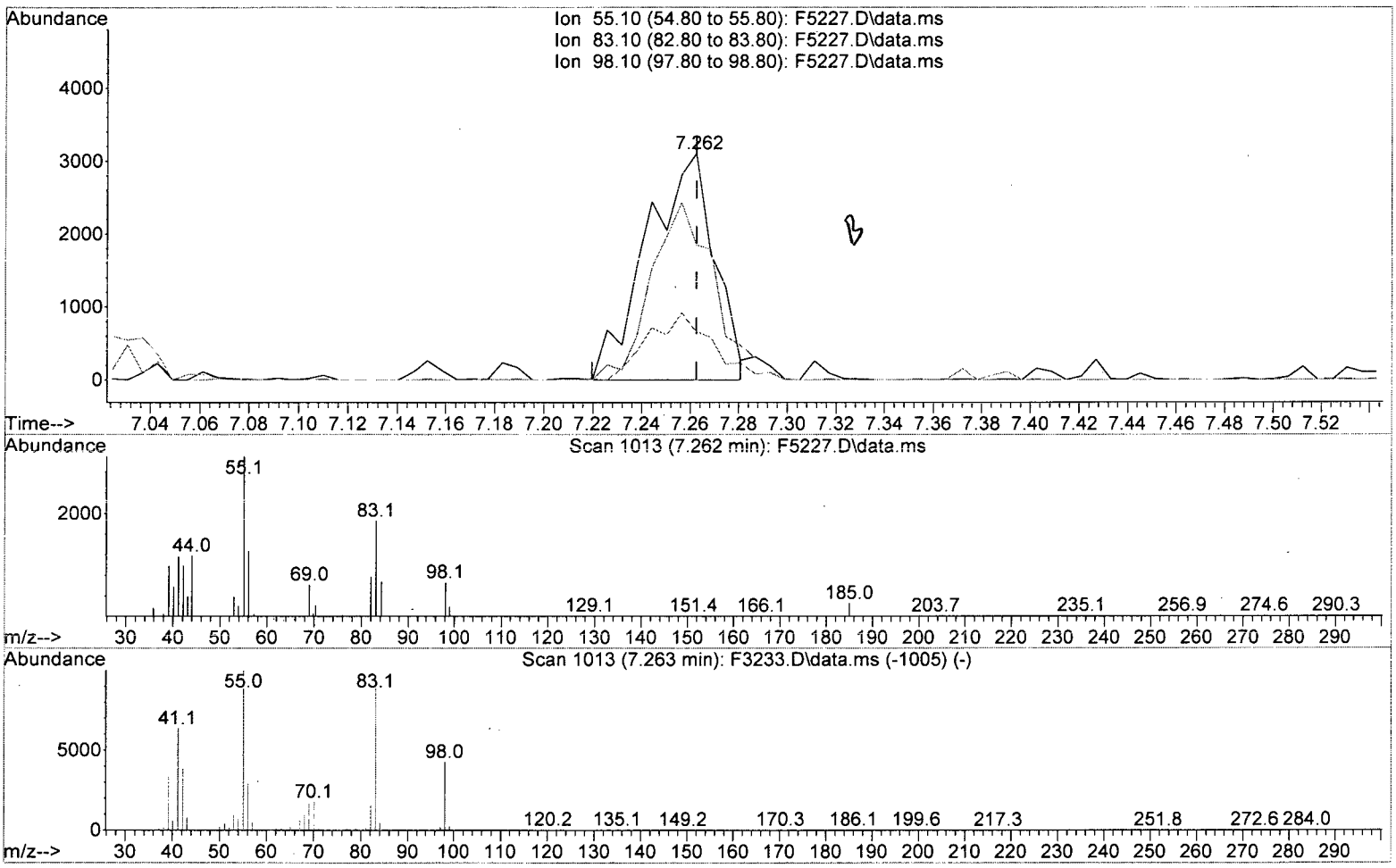
6.092min (-0.012) 0.23 ug/L m

response 5822

Ion	Exp%	Act%
78.10	100	100
51.10	23.00	28.43
52.10	21.60	17.60
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 22 18:50:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5227.D\data.ms

(54) Methylcyclohexane (P)

7.262min (-0.000) 0.53 ug/L

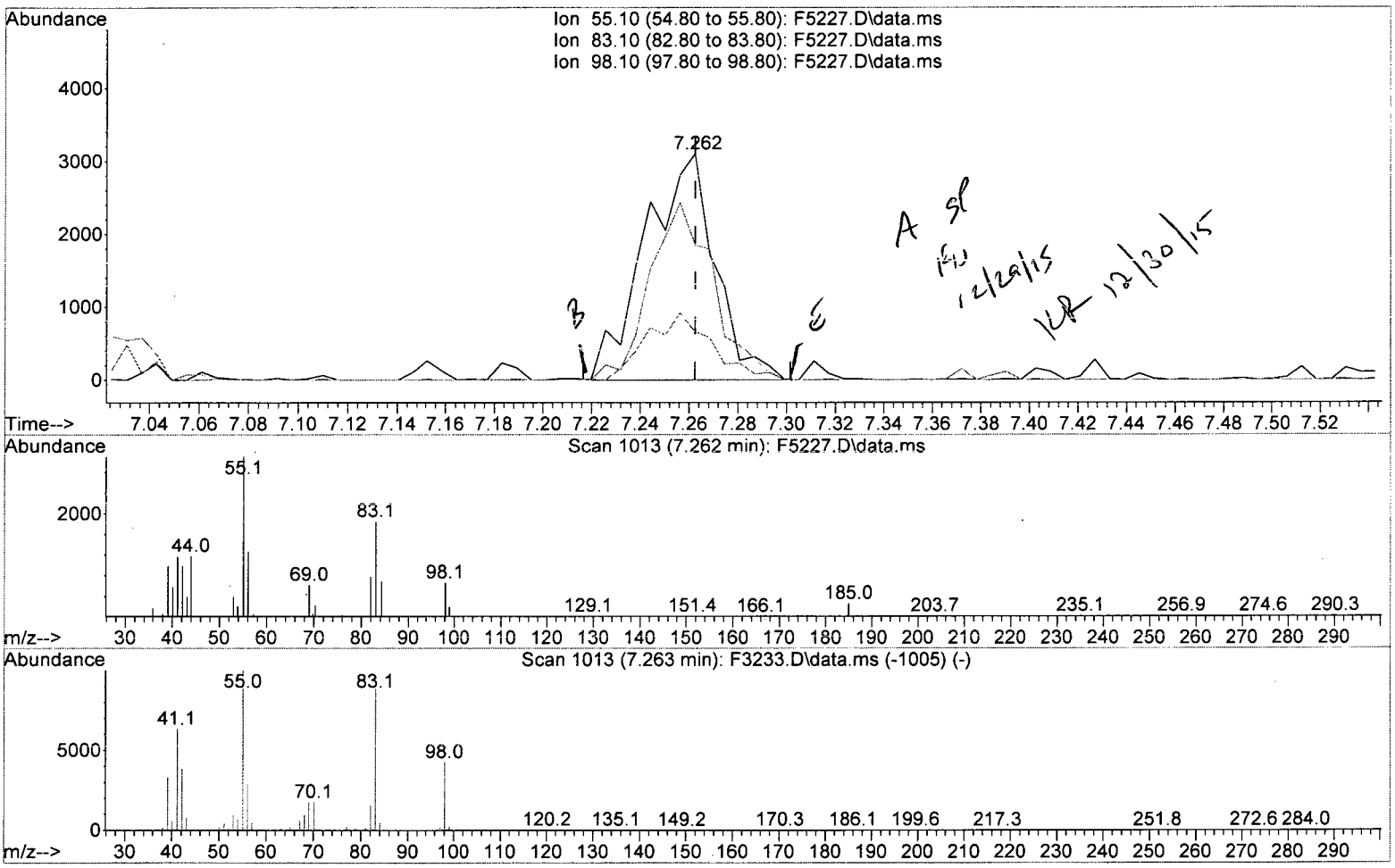
response 5984

Ion	Exp%	Act%
55.10	100	100
83.10	89.20	59.66#
98.10	42.10	21.30#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 15:45:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5227.D\data.ms

(54) Methylcyclohexane (P)

7.262min (-0.000) 0.55 ug/L m

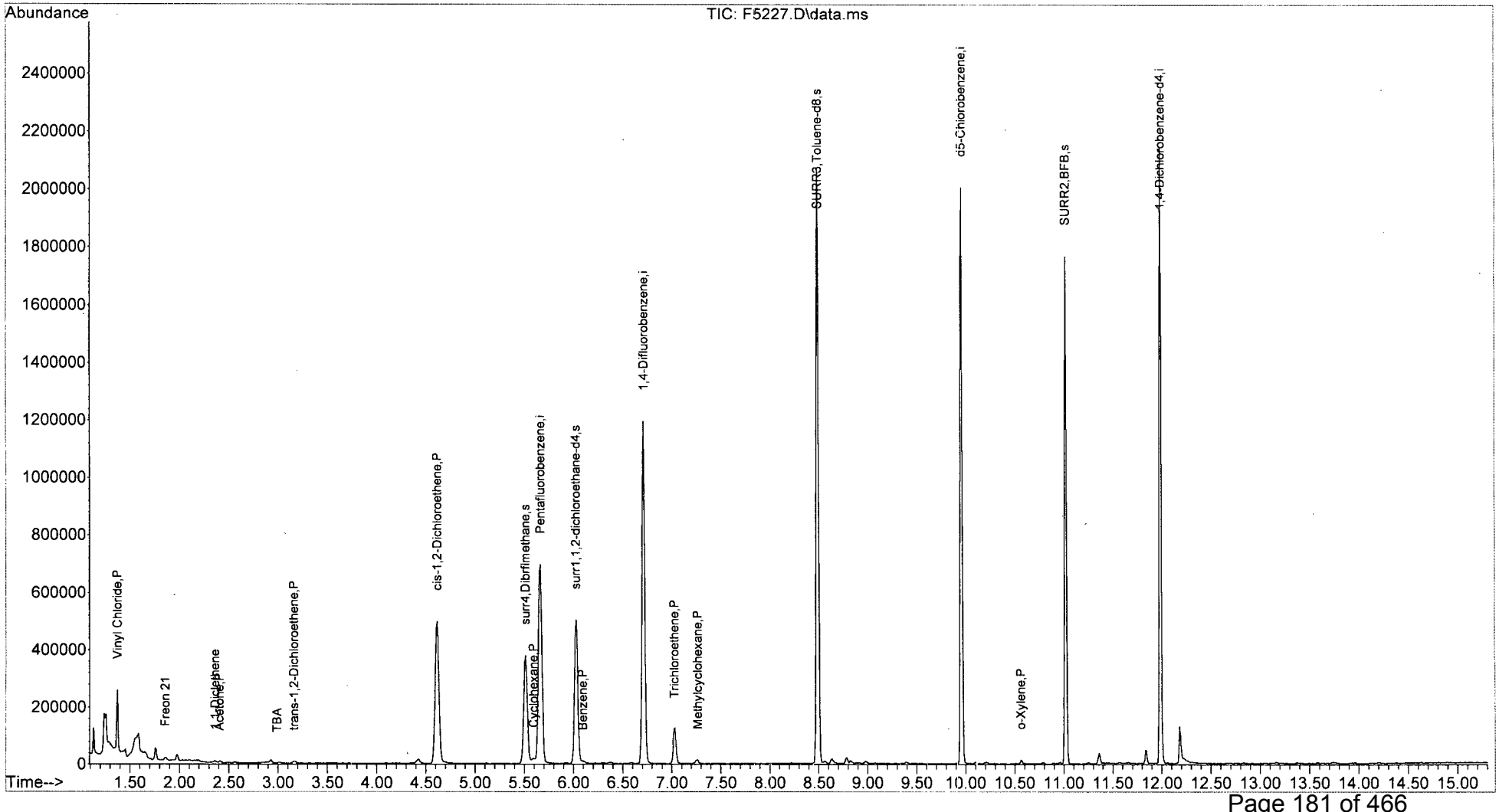
response 6174

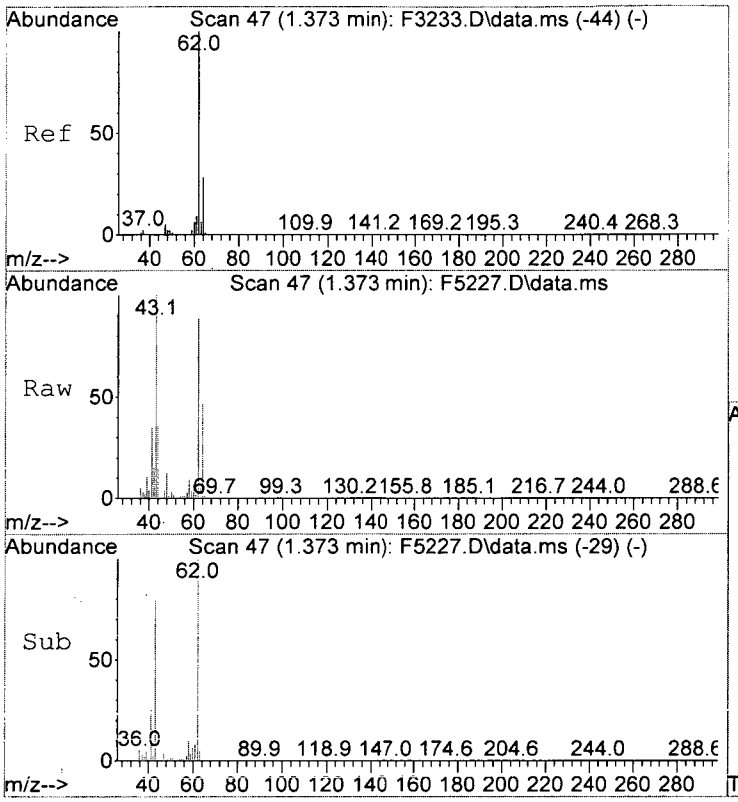
Ion	Exp%	Act%
55.10	100	100
83.10	89.20	59.66#
98.10	42.10	21.30#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5227.D
Acq On : 22 Dec 2015 6:36 pm
Operator : F. Naegler
Sample : R1510962-011|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 29 15:45:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

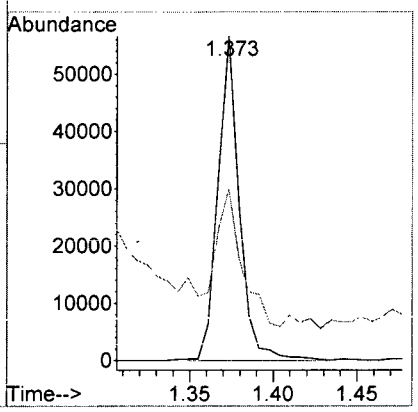


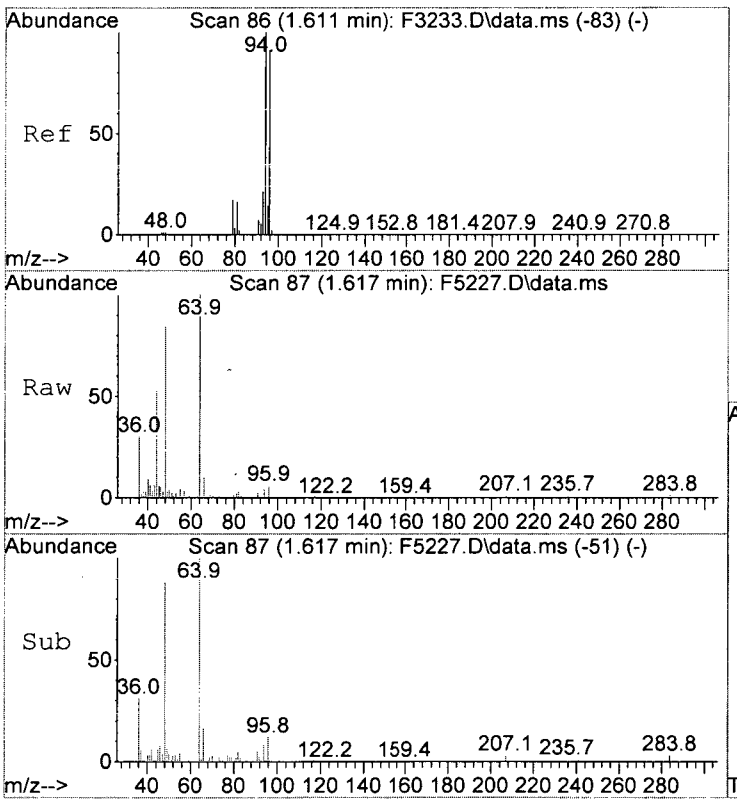


#4
Vinyl Chloride
Concen: 4.80 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 62 Resp: 50146

Ion	Ratio	Lower	Upper
62	100		
64	53.0	8.4	48.4#

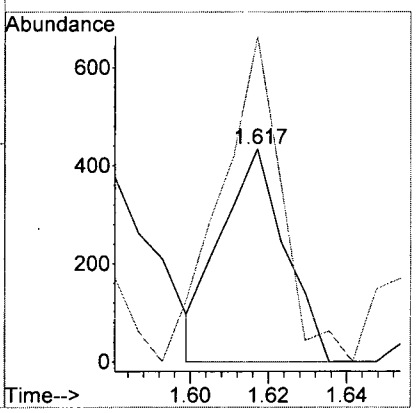


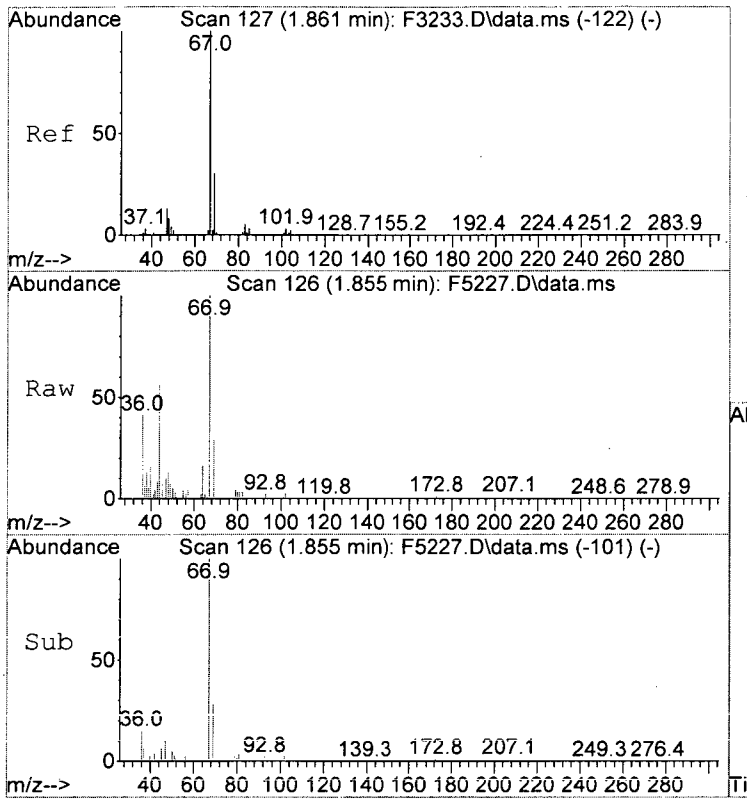


#5
Bromomethane
Concen: Below Cal
RT: 1.617 min Scan# 87
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 94 Resp: 493

Ion	Ratio	Lower	Upper
94	100		
96	153.0	71.0	111.0#

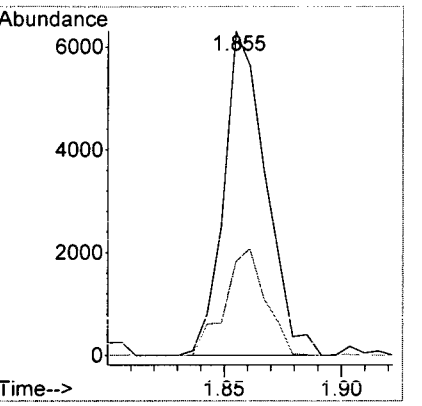


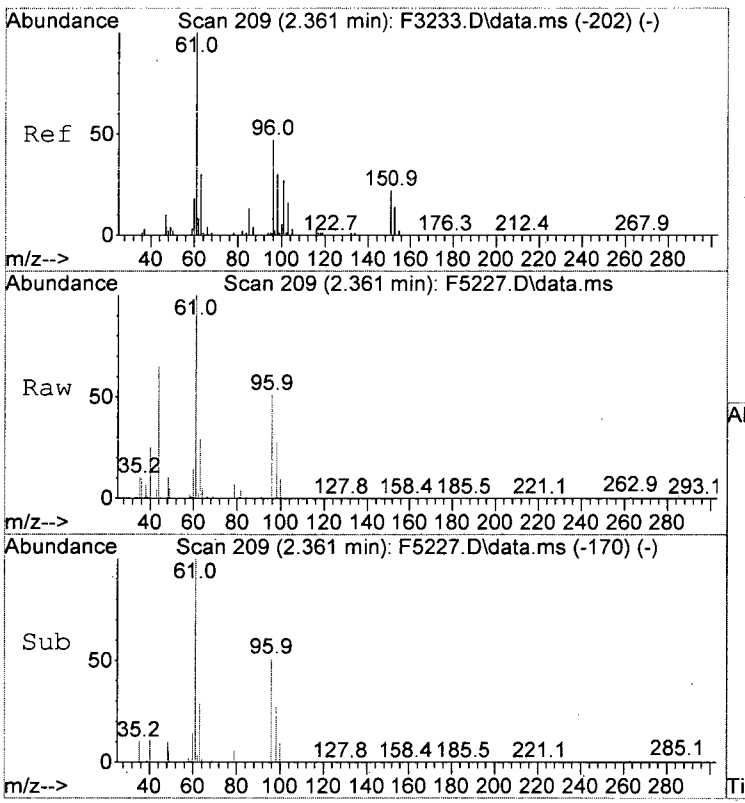


#7
Freon 21
Concen: 0.66 ug/L
RT: 1.855 min Scan# 126
Delta R.T. -0.012 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 67 Resp: 7908

Ion	Ratio	Lower	Upper
67	100		
69	28.6	9.8	49.8

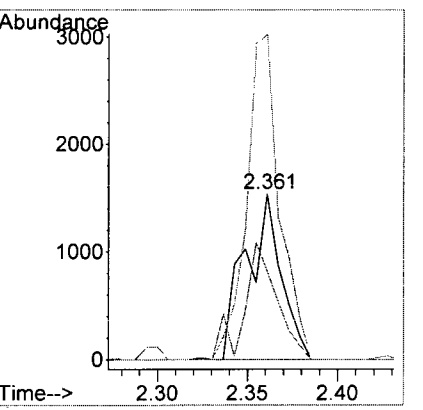


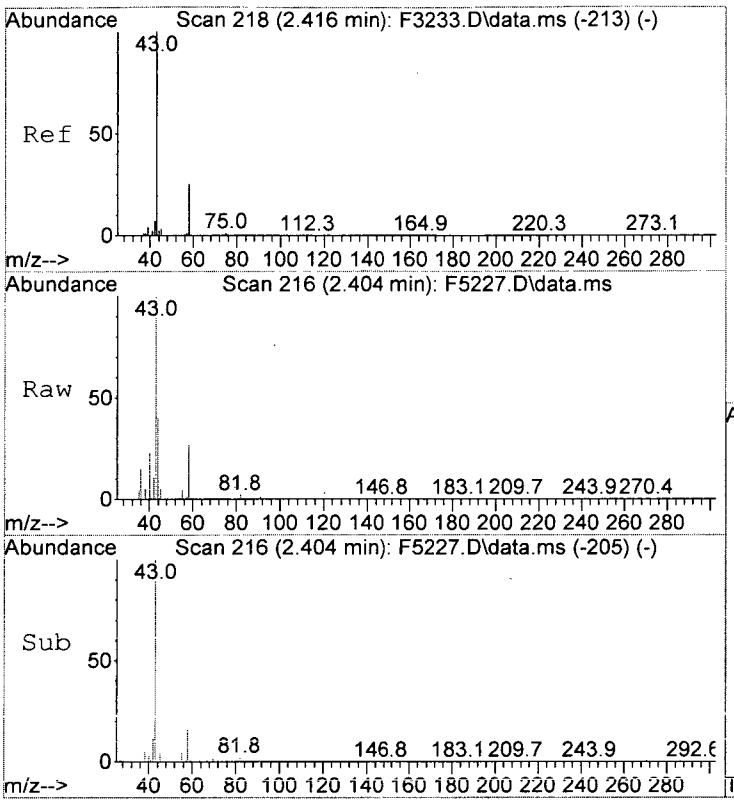


#13
1,1-Diclethene
Concen: 0.42 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 96 Resp: 2111

Ion	Ratio	Lower	Upper
96	100		
98	53.5	44.2	84.2
61	196.4	192.7	232.7

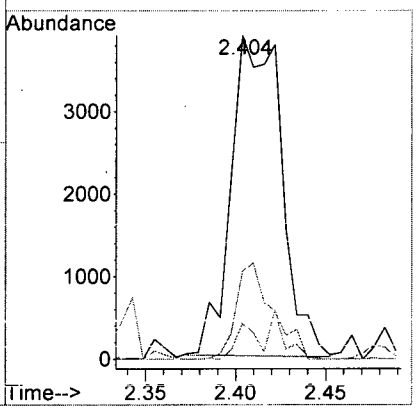


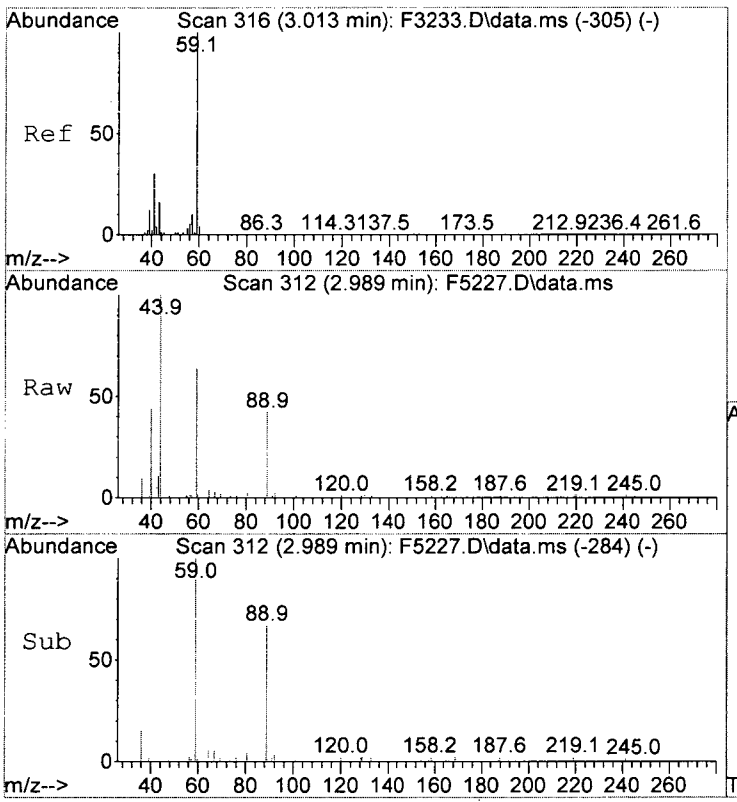


#15
Acetone
Concen: 1.34 ug/L
RT: 2.404 min Scan# 216
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 43 Resp: 7576

Ion	Ratio	Lower	Upper
43	100		
58	27.1	4.3	44.3
42	11.0	0.0	27.3

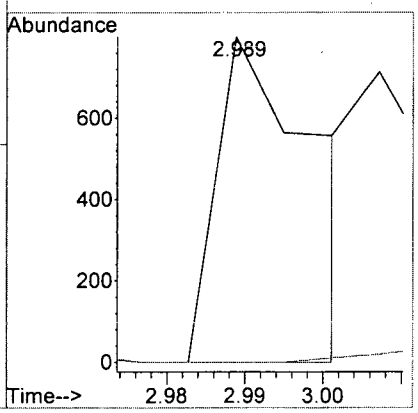


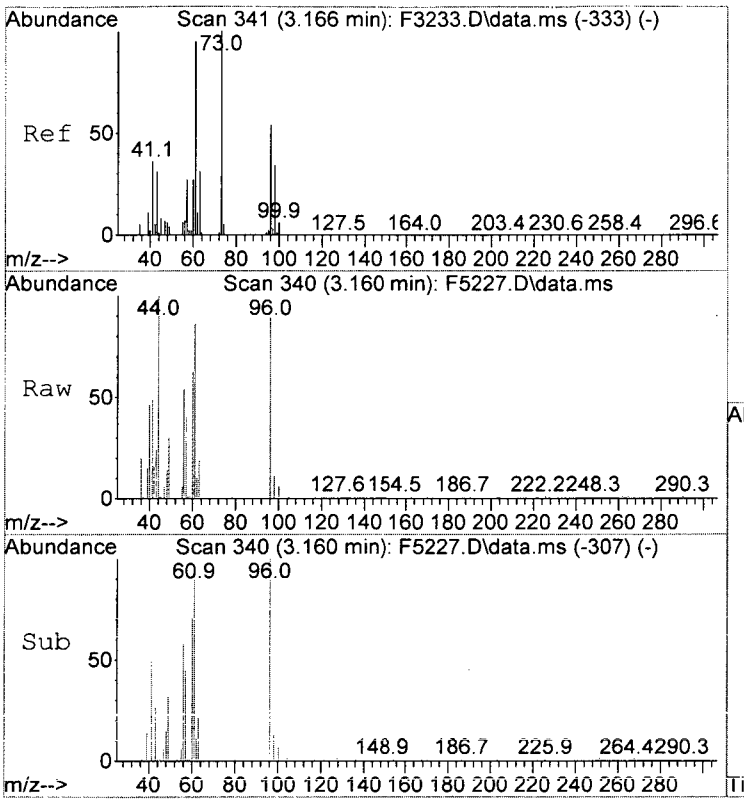


#23
TBA
Concen: 10.19 ug/L
RT: 2.989 min Scan# 312
Delta R.T. -0.018 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 59 Resp: 702

Ion	Ratio	Lower	Upper
59	100		
41	0.0	9.9	49.9#

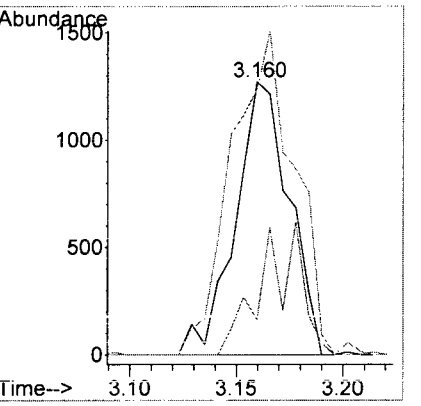


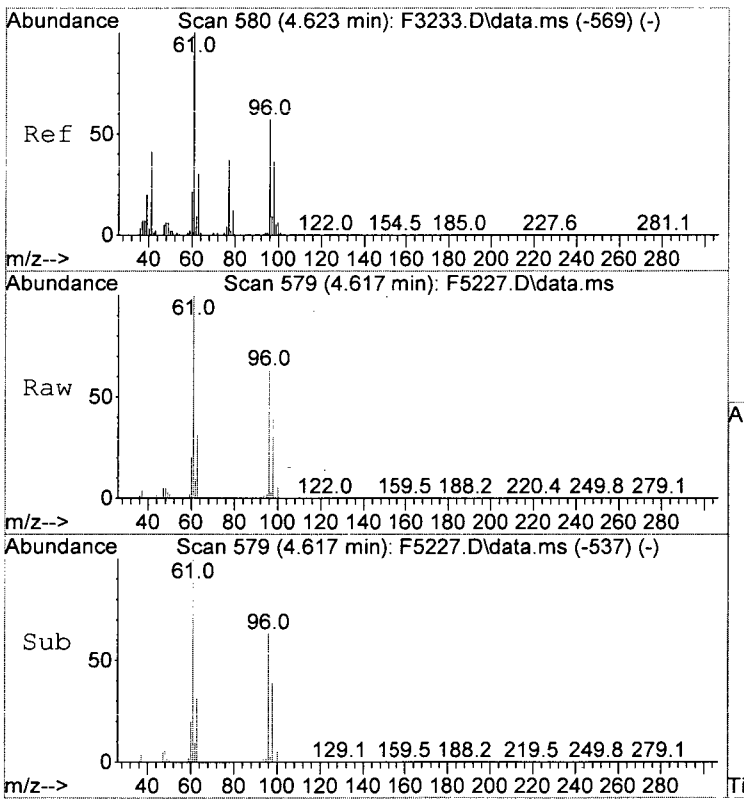


#26
trans-1,2-Dichloroethene
Concen: 0.40 ug/L
RT: 3.160 min Scan# 340
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 96 Resp: 2225

Ion	Ratio	Lower	Upper
96	100		
98	12.7	42.3	82.3#
61	97.3	155.3	195.3#

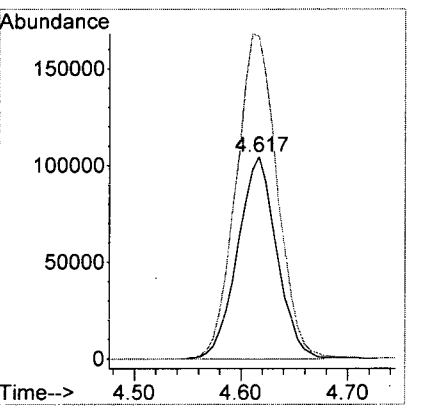


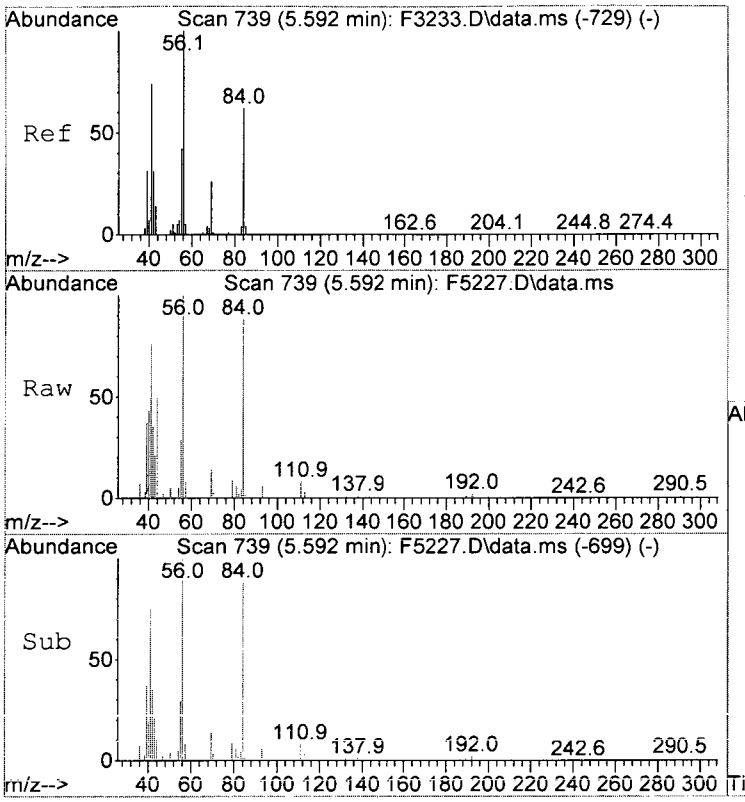


#33
cis-1,2-Dichloroethene
Concen: 41.74 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 96 Resp: 264326

Ion	Ratio	Lower	Upper
96	100		
61	159.7	157.0	197.0

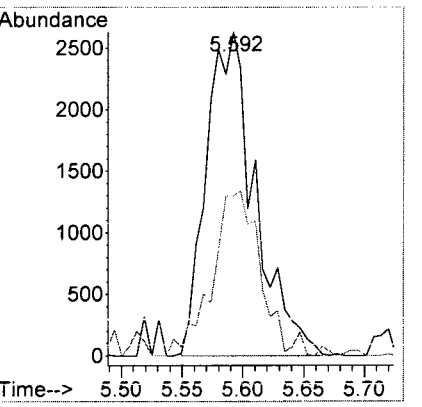


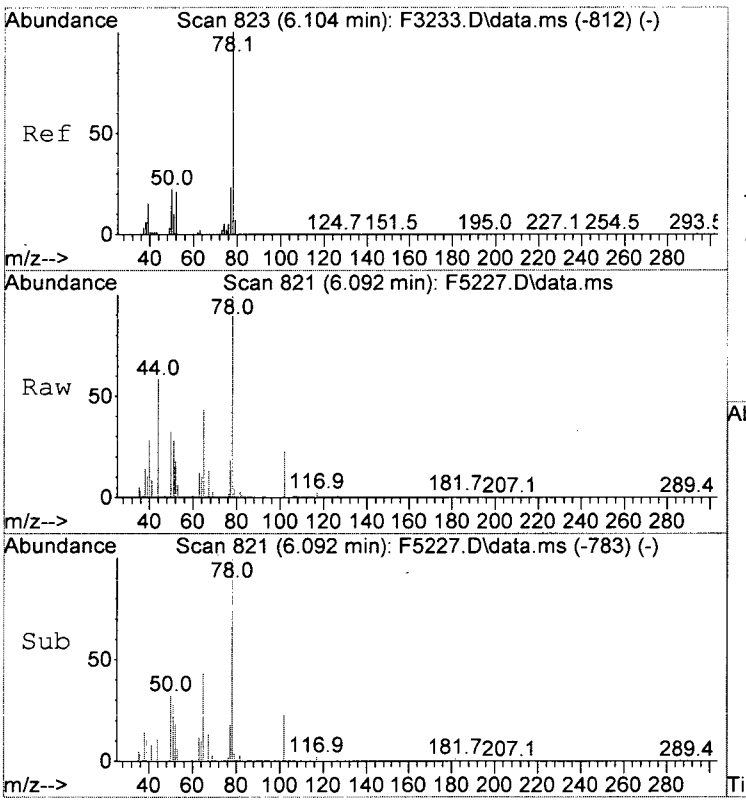


#42
Cyclohexane
Concen: 0.73 ug/L m
RT: 5.592 min Scan# 739
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 41 Resp: 7338

Ion	Ratio	Lower	Upper
41	100		
39	49.1	22.1	62.1

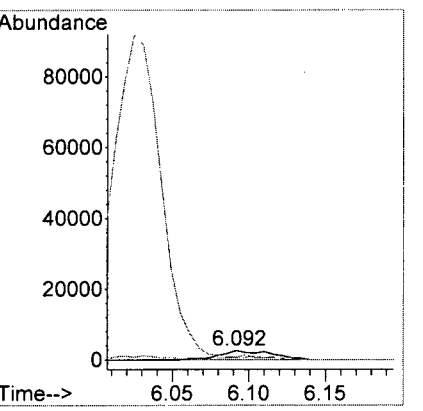


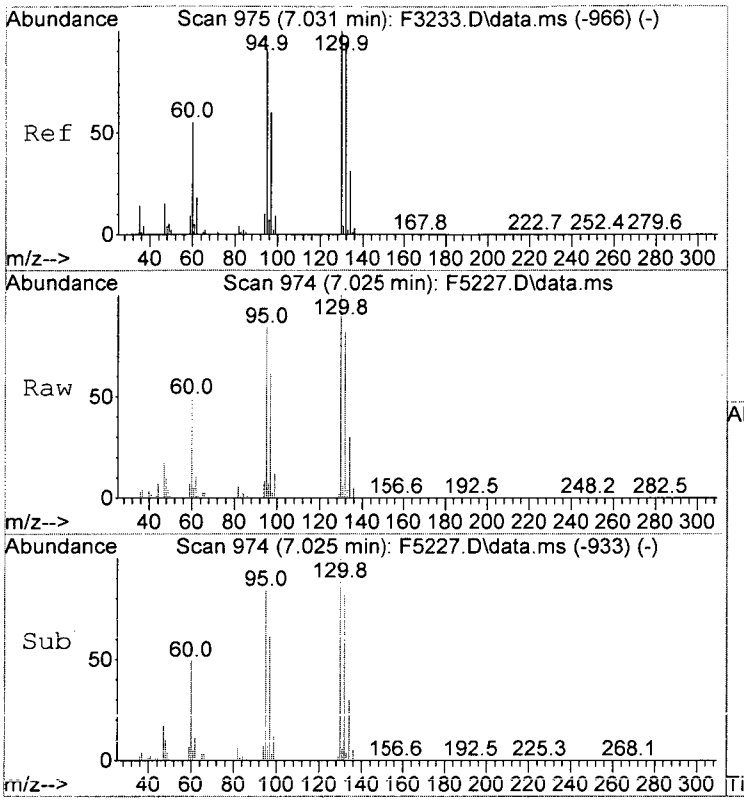


#47
Benzene
Concen: 0.23 ug/L m
RT: 6.092 min Scan# 821
Delta R.T. -0.012 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 78 Resp: 5822

Ion	Ratio	Lower	Upper
78	100		
51	28.4	3.0	43.0
52	17.6	1.6	41.6

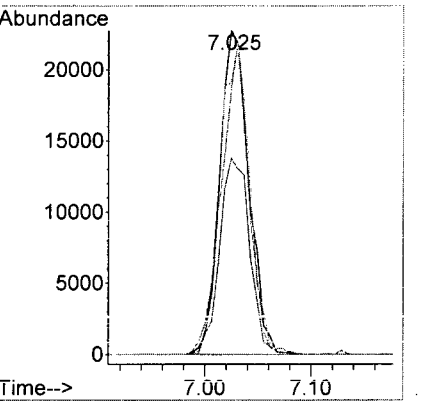


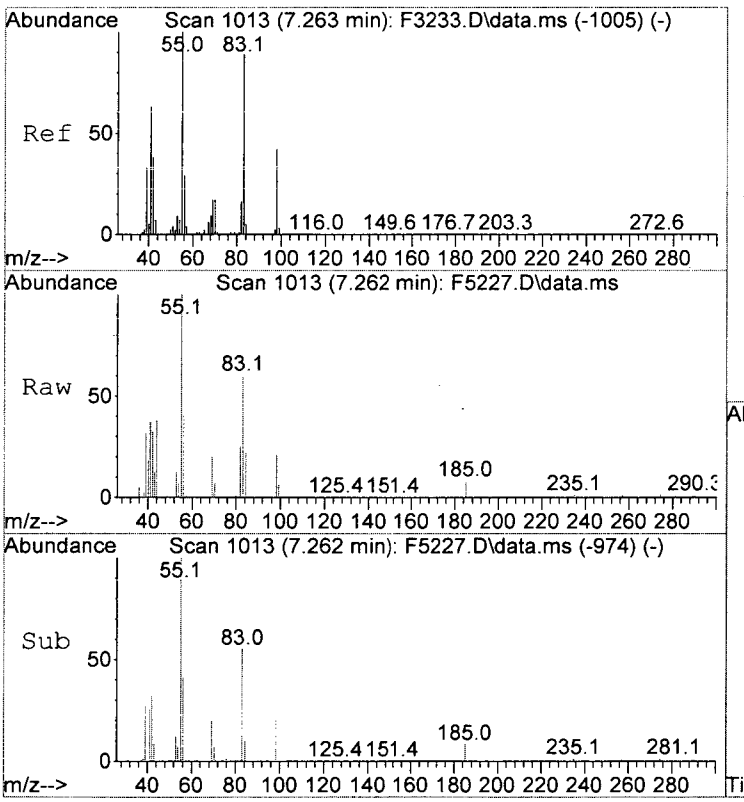


#53
Trichloroethene
Concen: 6.68 ug/L
RT: 7.025 min Scan# 974
Delta R.T. -0.000 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion:130 Resp: 43259

Ion	Ratio	Lower	Upper
130	100		
132	81.8	74.1	114.1
95	83.8	70.9	110.9
97	60.6	39.7	79.7

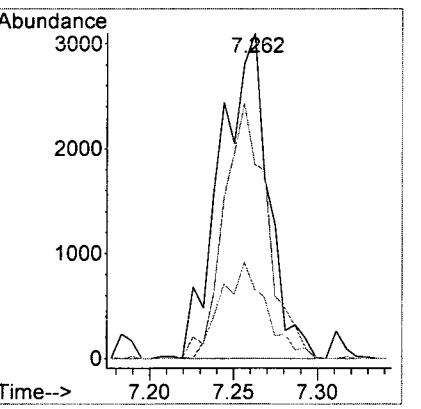


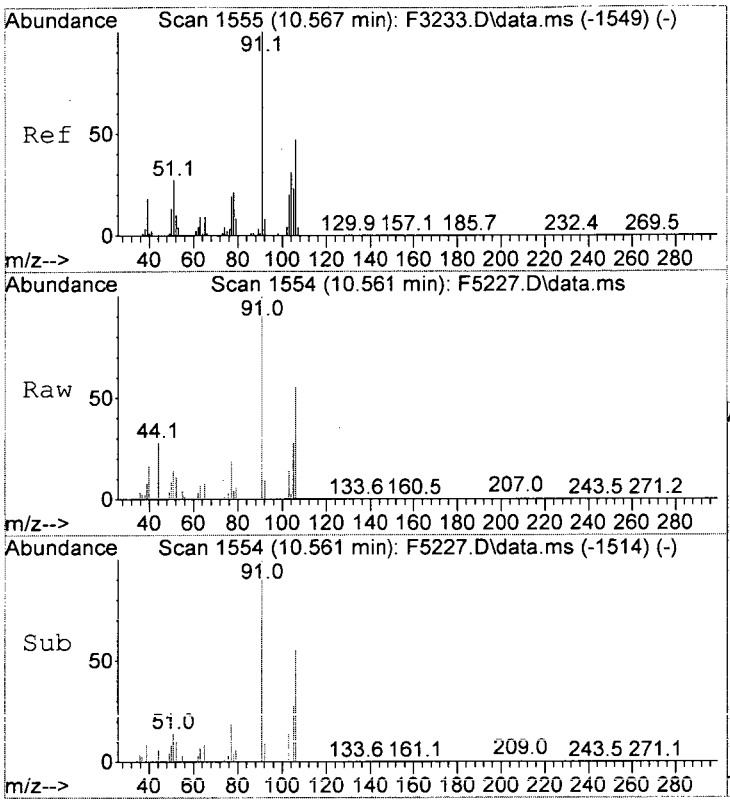


#54
Methylcyclohexane
Concen: 0.55 ug/L m
RT: 7.262 min Scan# 1013
Delta R.T. -0.000 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion: 55 Resp: 6174

Ion	Ratio	Lower	Upper
55	100		
83	59.7	69.2	109.2#
98	21.3	22.1	62.1#

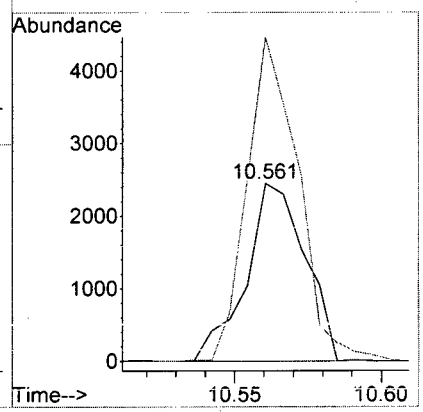




#83
o-Xylene
Concen: 0.31 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. -0.006 min
Lab File: F5227.D
Acq: 22 Dec 2015 6:36 pm

Tgt Ion:106 Resp: 3420

Ion	Ratio	Lower	Upper
106	100		
91	182.4	194.2	234.2#



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1310
Date Received: 12/16/15

Sample Name: Field Duplicate
Lab Code: R1510962-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 17:18		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 17:18		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 17:18		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 17:18		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,1-Dichloroethene (1,1-DCE)	**4.5**		1.0	0.57	1	NA	12/21/15 17:18		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 17:18		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 17:18		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 17:18		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 17:18		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 17:18		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 17:18		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 17:18		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 17:18		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 17:18		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 17:18		477252	
Benzene	**2.7**		1.0	0.20	1	NA	12/21/15 17:18		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 17:18		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 17:18		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 17:18		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 17:18		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 17:18		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 17:18		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 17:18		477252	
Cyclohexane	**20**		1.0	0.25	1	NA	12/21/15 17:18		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 17:18		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 17:18		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 17:18		477252	
Ethylbenzene	**2.7**		1.0	0.20	1	NA	12/21/15 17:18		477252	

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148
Sample Matrix: Water

Service Request: R1510962
Date Collected: 12/15/15 1310
Date Received: 12/16/15

Sample Name: Field Duplicate
Lab Code: R1510962-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**0.74**	J	1.0	0.20	1	NA	12/21/15 17:18		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 17:18		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 17:18		477252	
Methylcyclohexane	**21**		1.0	0.27	1	NA	12/21/15 17:18		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 17:18		477252	
Toluene	**2.0**		1.0	0.20	1	NA	12/21/15 17:18		477252	
Trichloroethene (TCE)	**32**		1.0	0.22	1	NA	12/21/15 17:18		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	
Vinyl Chloride	**560**	D	10	3.2	10	NA	12/22/15 20:13		477582	
cis-1,2-Dichloroethene	**950**	D	10	3.0	10	NA	12/22/15 20:13		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 17:18		477252	
m,p-Xylenes	**0.81**	J	2.0	0.33	1	NA	12/21/15 17:18		477252	
o-Xylene	**5.1**		1.0	0.20	1	NA	12/21/15 17:18		477252	
trans-1,2-Dichloroethene	**2.9**		1.0	0.33	1	NA	12/21/15 17:18		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 17:18		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/21/15 17:18	
Dibromofluoromethane	104	89-119	12/21/15 17:18	
Toluene-d8	105	87-121	12/21/15 17:18	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5197.D
Acq On : 21 Dec 2015 5:18 pm
Operator : F. Naegler
Sample : R1510962-012|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 29 14:21:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)	
Internal Standards								
1) Pentafluorobenzene	5.659	168	651914	50.00	ug/L		0.00	
41) 1,4-Difluorobenzene	6.714	114	948563	50.00	ug/L		0.00	
70) d5-Chlorobenzene	9.957	117	820260	50.00	ug/L		0.00	
90) 1,4-Dichlorobenzene-d4	11.987	152	436438	50.00	ug/L		0.00	
System Monitoring Compounds								
43) surr4,Dibrflmethane	5.513	113	301883	51.88	ug/L		0.00	
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.76%					
46) surr1,1,2-dichloroetha...	6.025	65	360909	46.11	ug/L		0.00	
Spiked Amount 50.000	Range 73 - 125		Recovery = 92.22%					
64) SURR3,Toluene-d8	8.488	98	1130042	52.29	ug/L		0.00	
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.58%					
69) SURR2,BFB	11.018	95	425567	49.31	ug/L		0.00	
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.62%					
Target Compounds							Qvalue	
2) Dichlorodifluoromethane	1.154	85	2049	0.22	ug/L		92	
4) Vinyl Chloride	1.373	62	5459796	501.54	ug/L		82	E
5) Bromomethane	1.623	94	330	Below Cal		#	52	
7) Freon 21	1.855	67	3895	0.31	ug/L		82	
13) 1,1-Diclethene	2.361	96	23250	4.48	ug/L	#	85	
15) Acetone	2.416	43	2455	0.42	ug/L	#	55	
26) trans-1,2-Dichloroethene	3.166	96	17038	2.90	ug/L		93	
33) cis-1,2-Dichloroethene	4.617	96	6825942	1034.55	ug/L	#	76	E
42) Cyclohexane	5.592	41	200168	19.86	ug/L		95	
47) Benzene	6.098	78	68079	2.69	ug/L		95	
51) n-Heptane	6.586	43	16813	1.25	ug/L		78	
53) Trichloroethene	7.031	130	209366	32.20	ug/L		97	
54) Methylcyclohexane	7.256	55	235272	20.79	ug/L		98	
65) Toluene	8.561	91	51371	1.98	ug/L		97	
81) Ethylbenzene	10.103	106	23407	2.68	ug/L	#	88	
82) (m+p)Xylene	10.213	106	9026	0.81	ug/L		97	
83) o-Xylene	10.567	106	56071	5.06	ug/L		96	
87) Isopropylbenzene	10.896	105	21498	0.74	ug/L		94	
94) n-Propylbenzene	11.249	91	22014	0.67	ug/L		94	
102) sec-Butylbenzene	11.859	105	6442	0.22	ug/L		95	

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

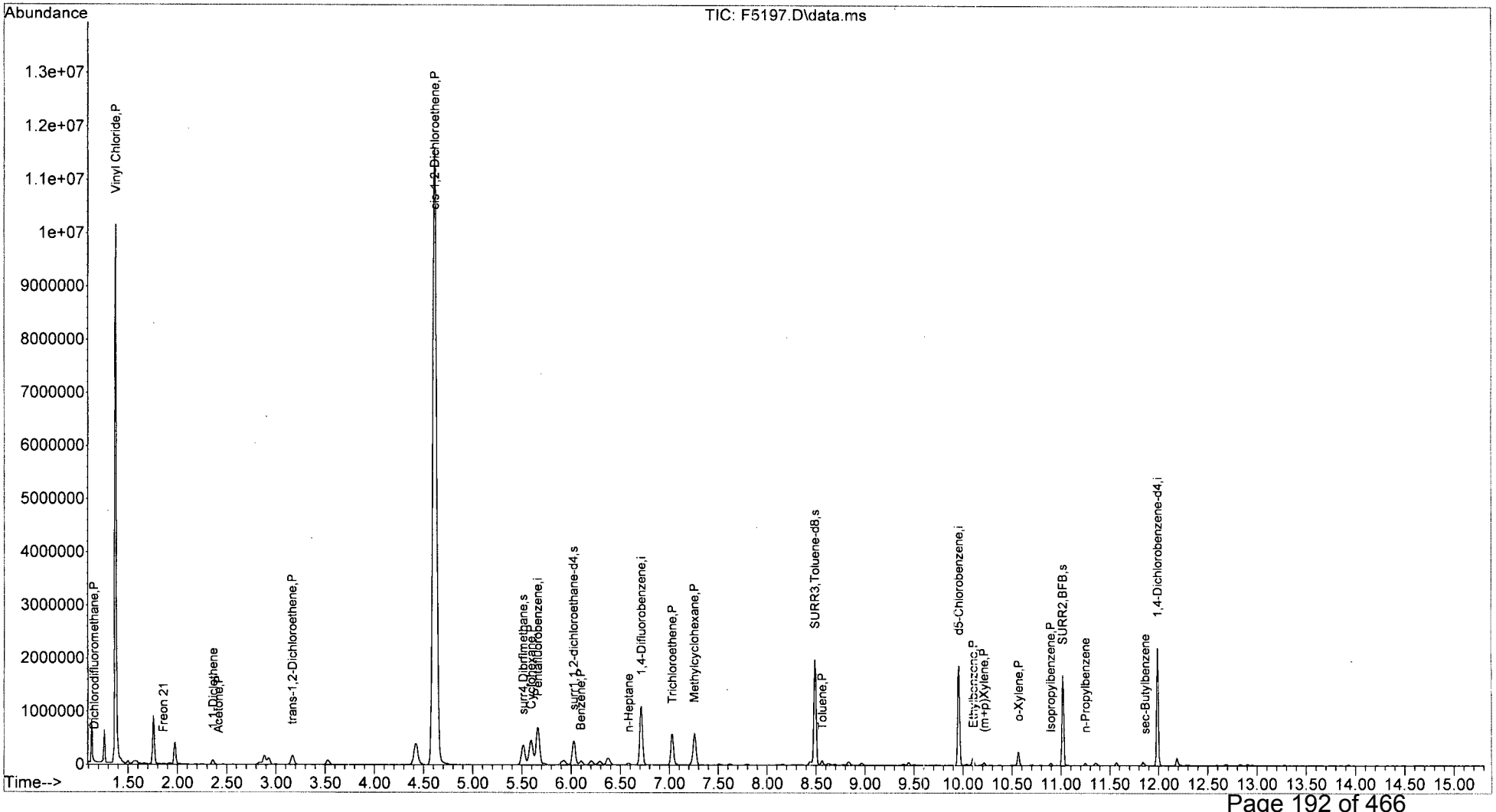
Report + Rpt 1/10

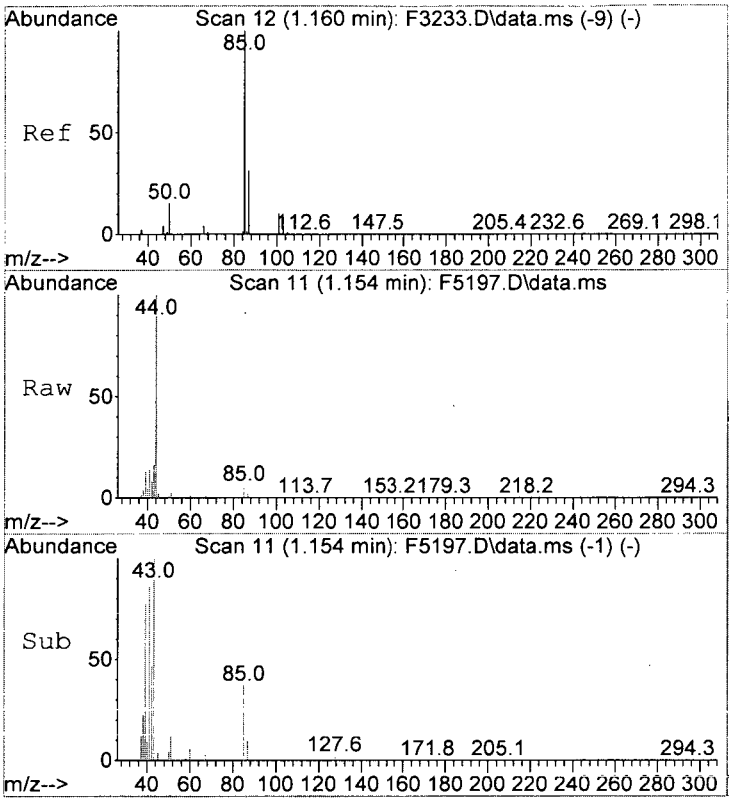
FJ
12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5197.D
Acq On : 21 Dec 2015 5:18 pm
Operator : F. Naegler
Sample : R1510962-012|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 29 14:21:10 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

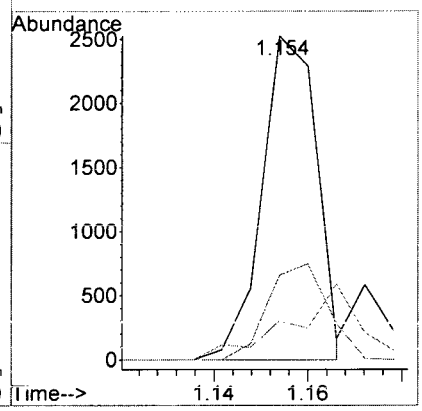


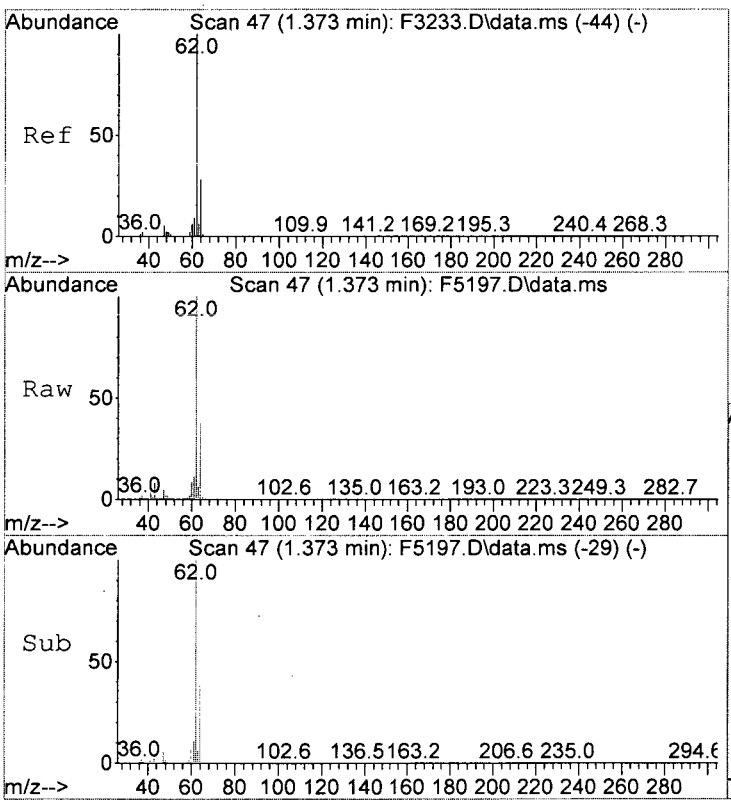


#2
Dichlorodifluoromethane
Concen: 0.22 ug/L
RT: 1.154 min Scan# 11
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 85 Resp: 2049

Ion	Ratio	Lower	Upper
85	100		
87	26.0	10.7	50.7
50	12.0	0.0	34.9

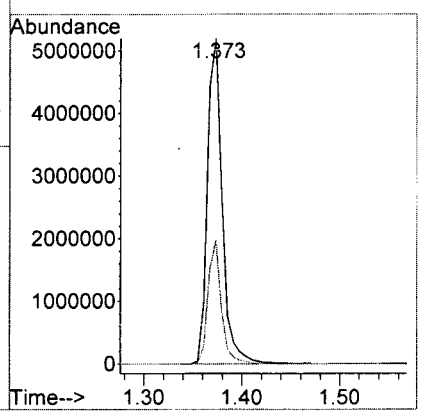


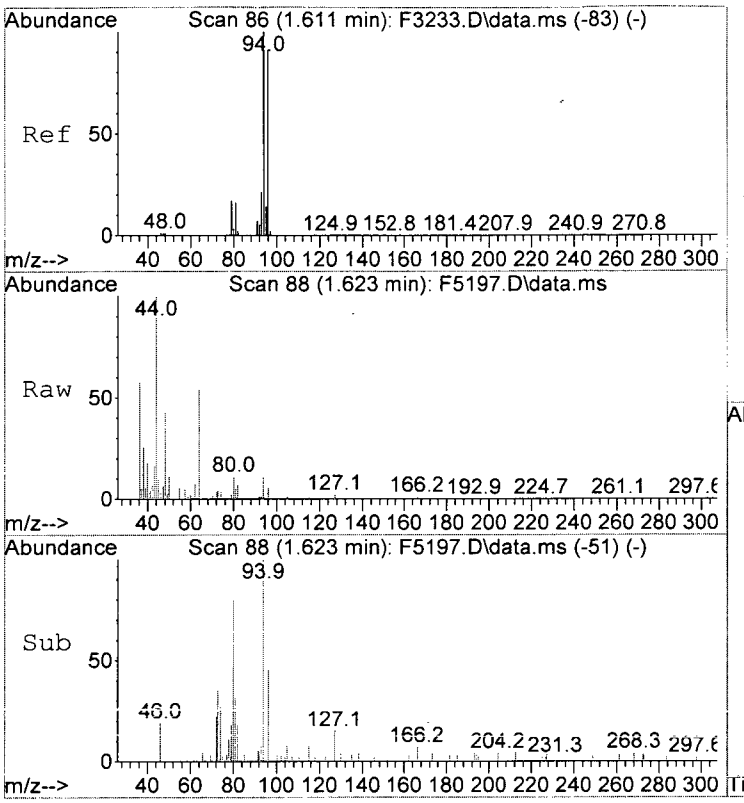


#4
Vinyl Chloride
Concen: 501.54 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 62 Resp: 5459796

Ion	Ratio	Lower	Upper
62	100		
64	38.0	8.4	48.4

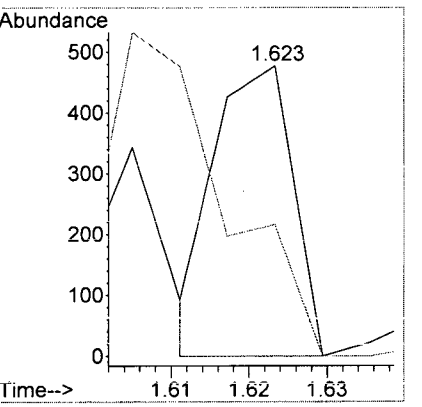


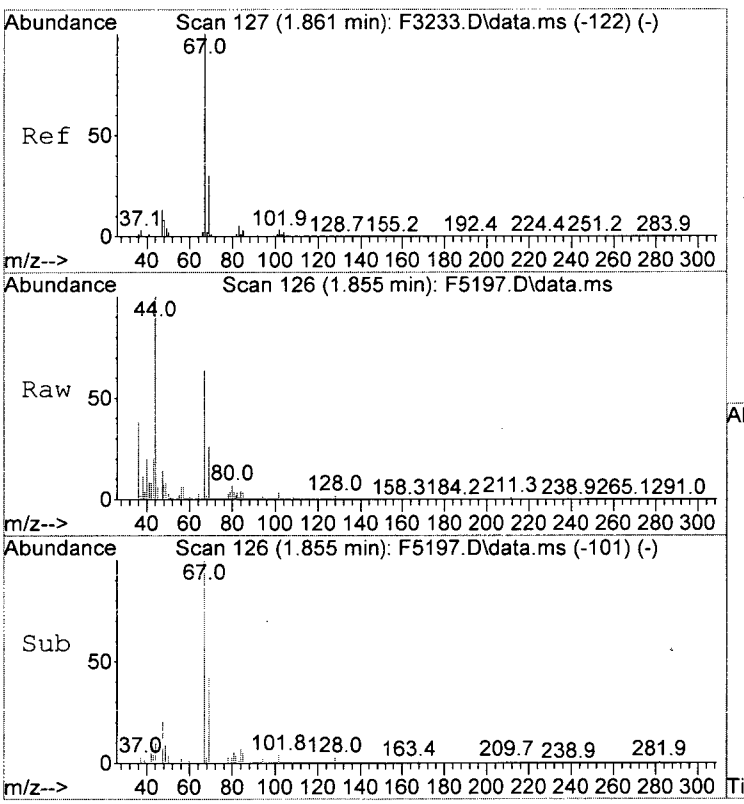


#5
Bromomethane
Concen: Below Cal
RT: 1.623 min Scan# 88
Delta R.T. 0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 94 Resp: 330

Ion	Ratio	Lower	Upper
94	100		
96	45.3	71.0	111.0#

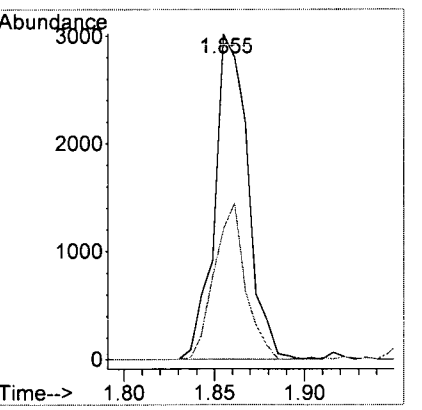


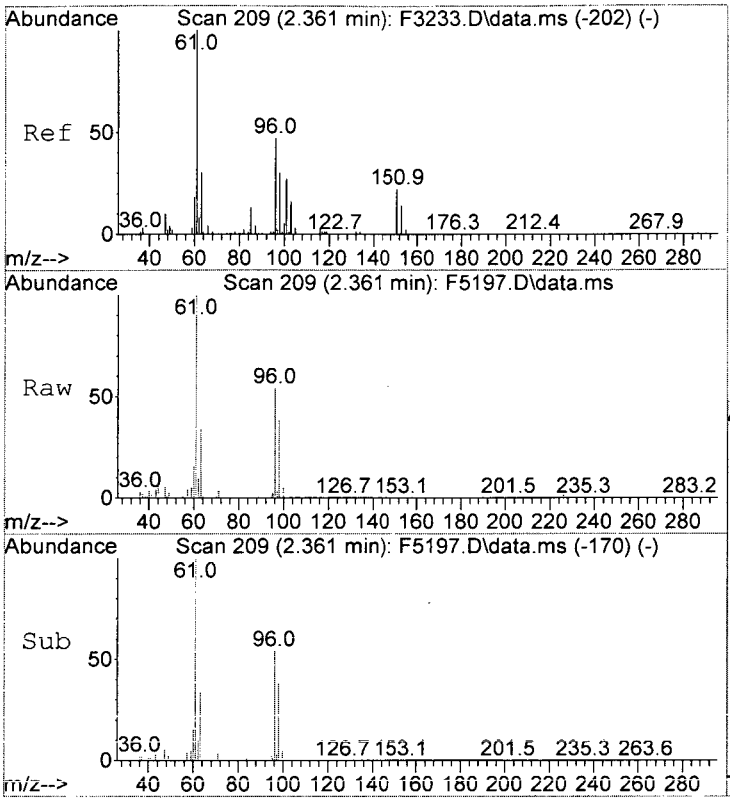


#7
Freon 21
Concen: 0.31 ug/L
RT: 1.855 min Scan# 126
Delta R.T. -0.012 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 67 Resp: 3895

Ion	Ratio	Lower	Upper
67	100		
69	39.7	9.8	49.8

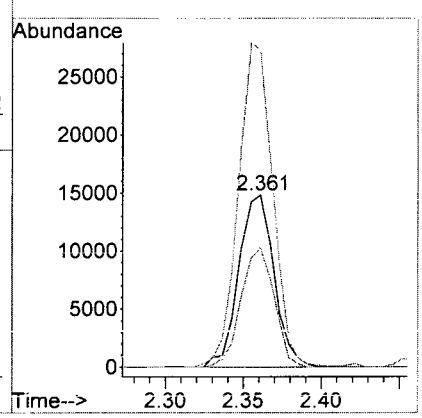


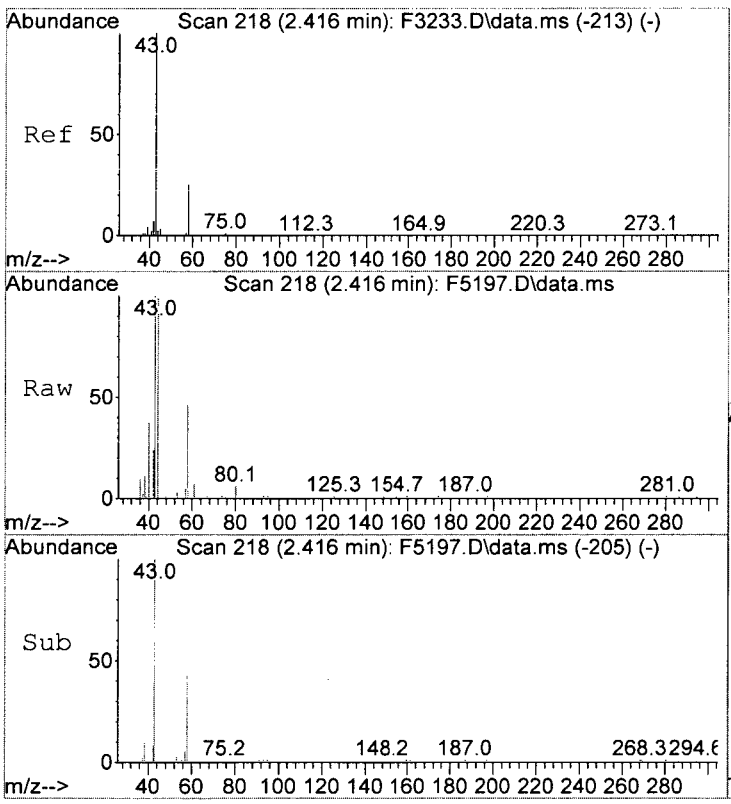


#13
1,1-Diclethene
Concen: 4.48 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 96 Resp: 23250

Ion	Ratio	Lower	Upper
96	100		
98	69.4	44.2	84.2
61	184.4	192.7	232.7#

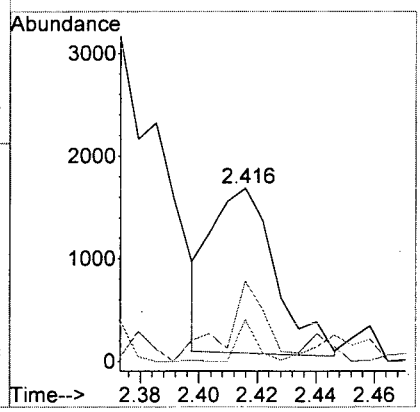


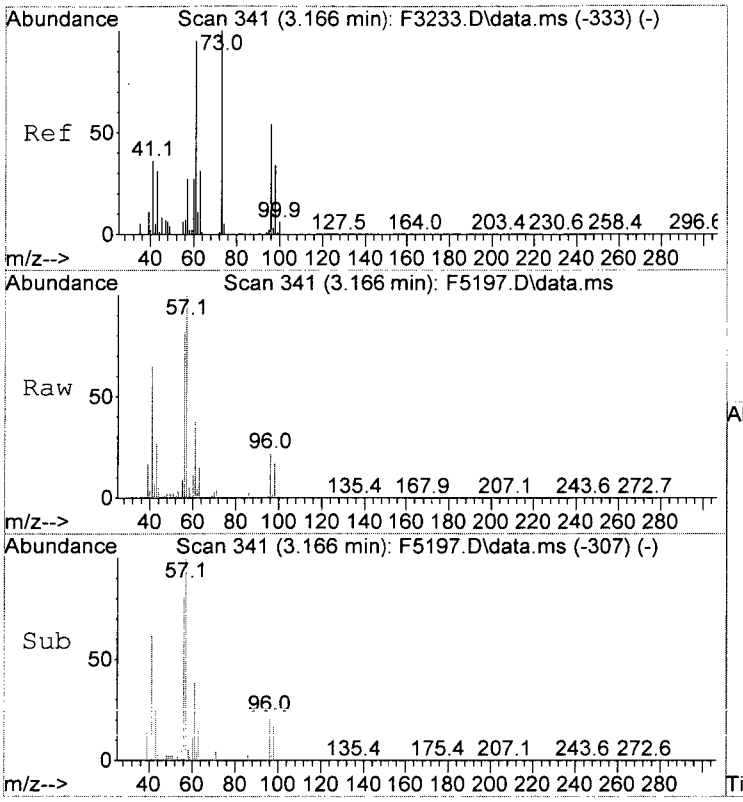


#15
Acetone
Concen: 0.42 ug/L
RT: 2.416 min Scan# 218
Delta R.T. 0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 43 Resp: 2455

Ion	Ratio	Lower	Upper
43	100		
58	46.1	4.3	44.3#
42	23.9	0.0	27.3

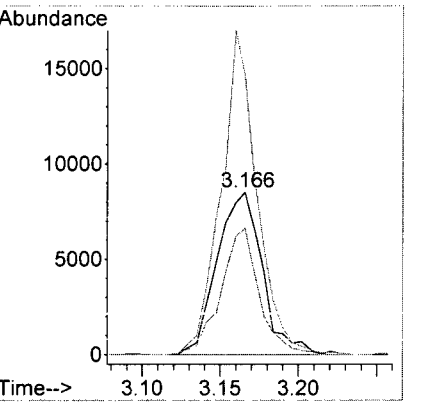


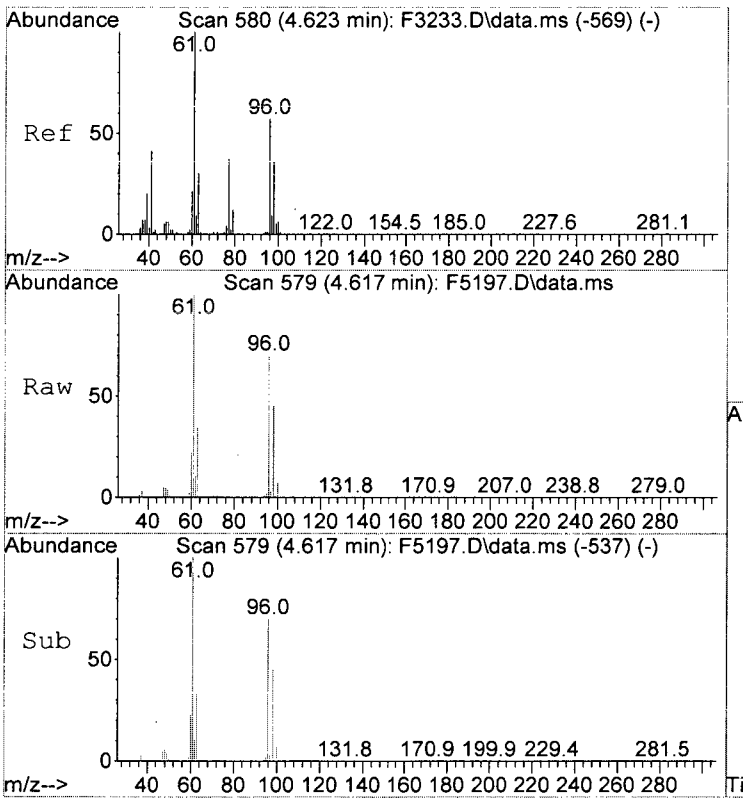


#26
trans-1,2-Dichloroethene
Concen: 2.90 ug/L
RT: 3.166 min Scan# 341
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 96 Resp: 17038

Ion	Ratio	Lower	Upper
96	100		
98	78.0	42.3	82.3
61	171.6	155.3	195.3

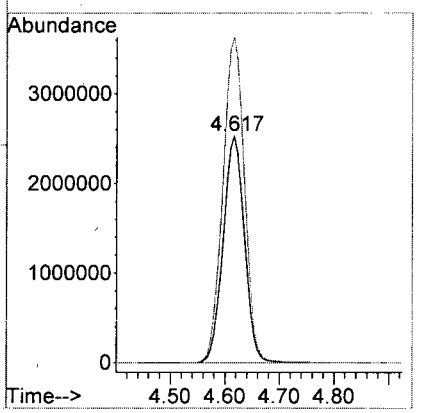


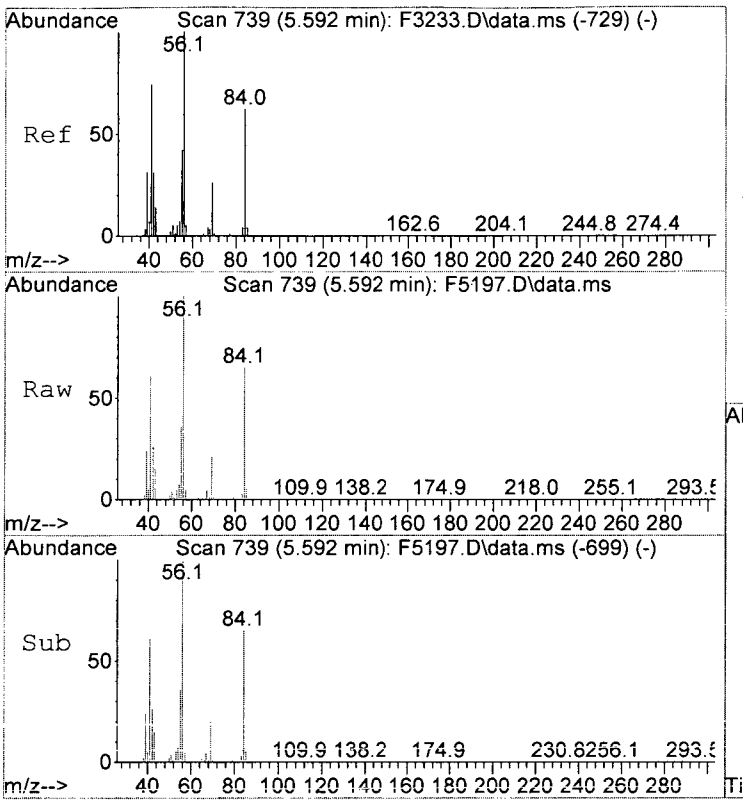


#33
cis-1,2-Dichloroethene
Concen: 1034.55 ug/L
RT: 4.617 min Scan# 579
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 96 Resp: 6825942

Ion	Ratio	Lower	Upper
96	100		
61	143.5	157.0	197.0#

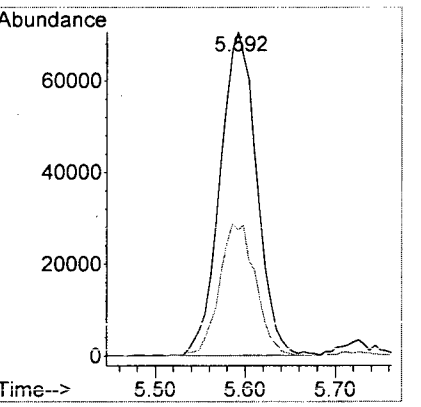


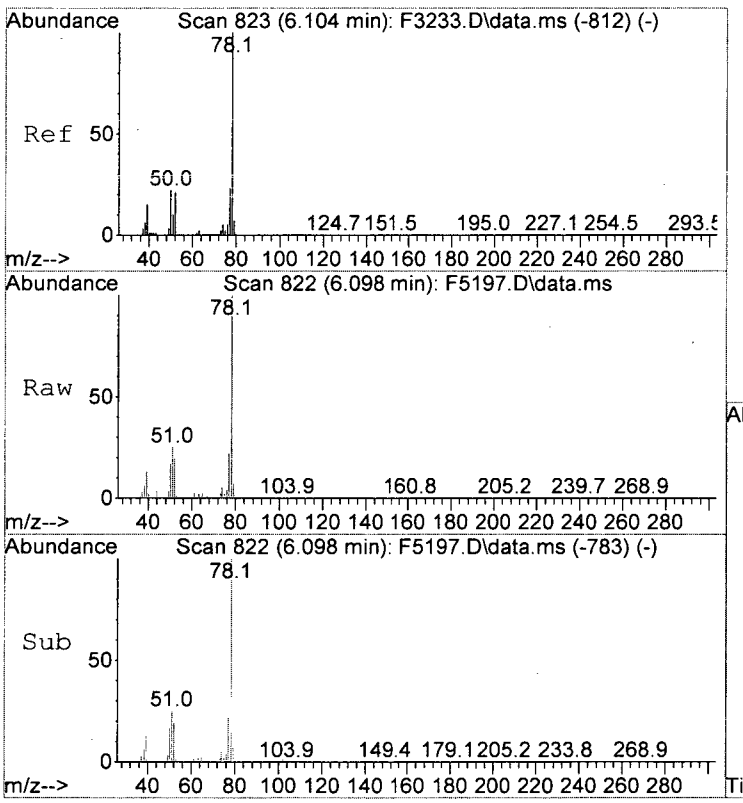


#42
Cyclohexane
Concen: 19.86 ug/L
RT: 5.592 min Scan# 739
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 41 Resp: 200168

Ion	Ratio	Lower	Upper
41	100		
39	39.1	22.1	62.1

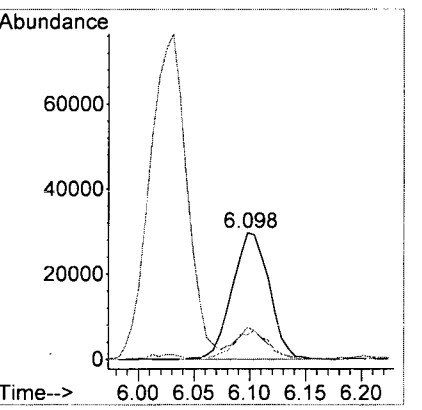


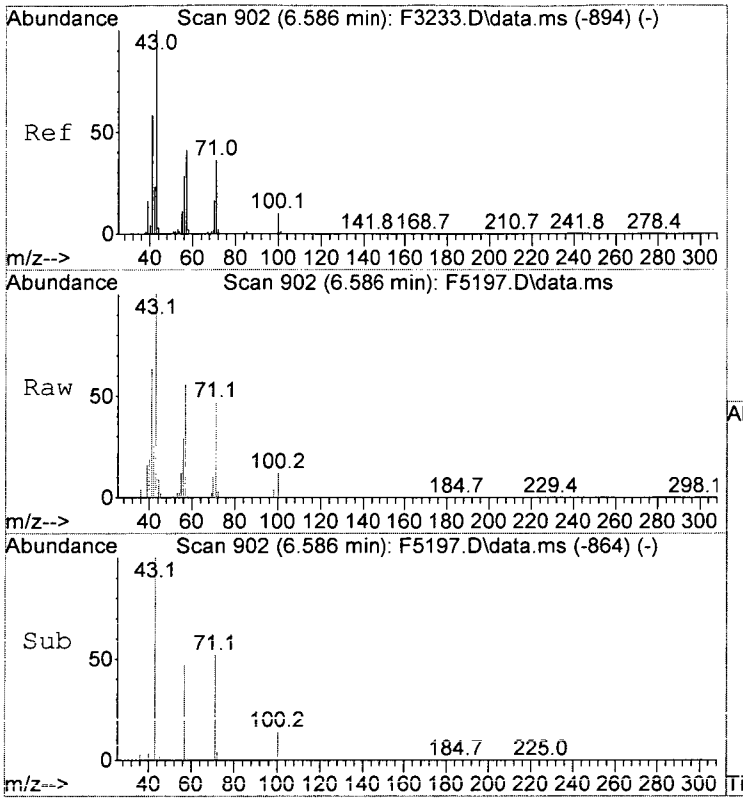


#47
Benzene
Concen: 2.69 ug/L
RT: 6.098 min Scan# 822
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 78 Resp: 68079

Ion	Ratio	Lower	Upper
78	100		
51	24.8	3.0	43.0
52	18.9	1.6	41.6

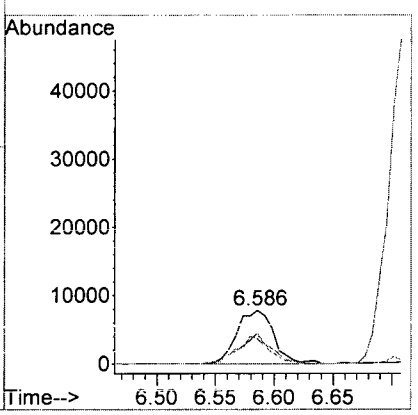


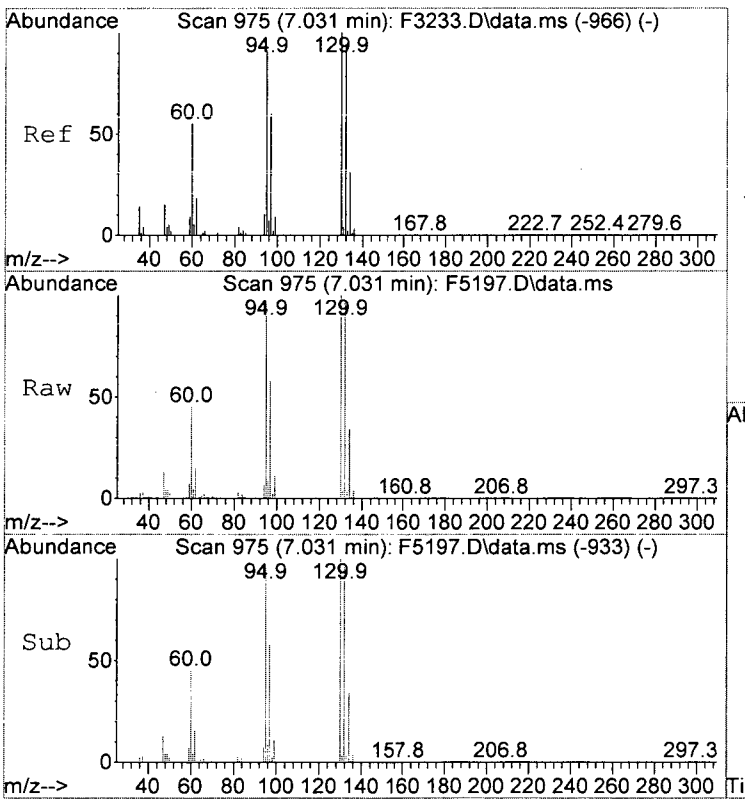


#51
n-Heptane
Concen: 1.25 ug/L
RT: 6.586 min Scan# 902
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 43 Resp: 16813

Ion	Ratio	Lower	Upper
43	100		
57	56.4	21.0	61.0
71	46.6	15.4	55.4

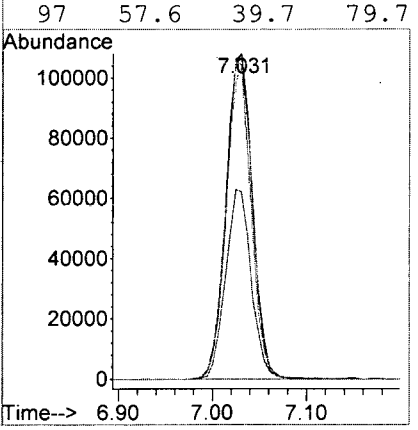


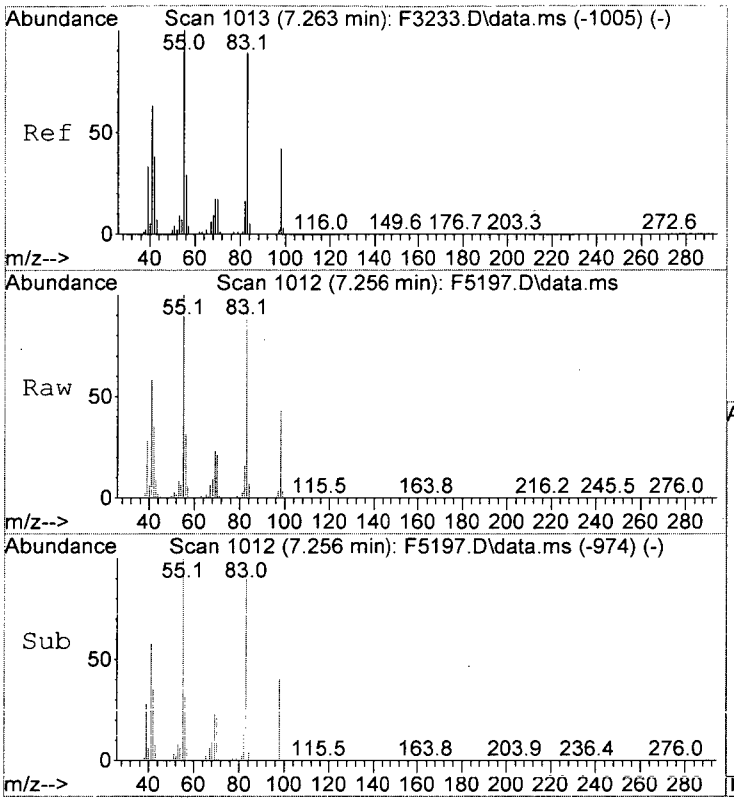


#53
Trichloroethene
Concen: 32.20 ug/L
RT: 7.031 min Scan# 975
Delta R.T. 0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:130 Resp: 209366

Ion	Ratio	Lower	Upper
130	100		
132	96.3	74.1	114.1
95	95.8	70.9	110.9
97	57.6	39.7	79.7

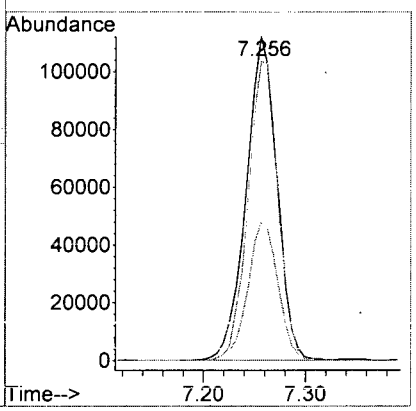


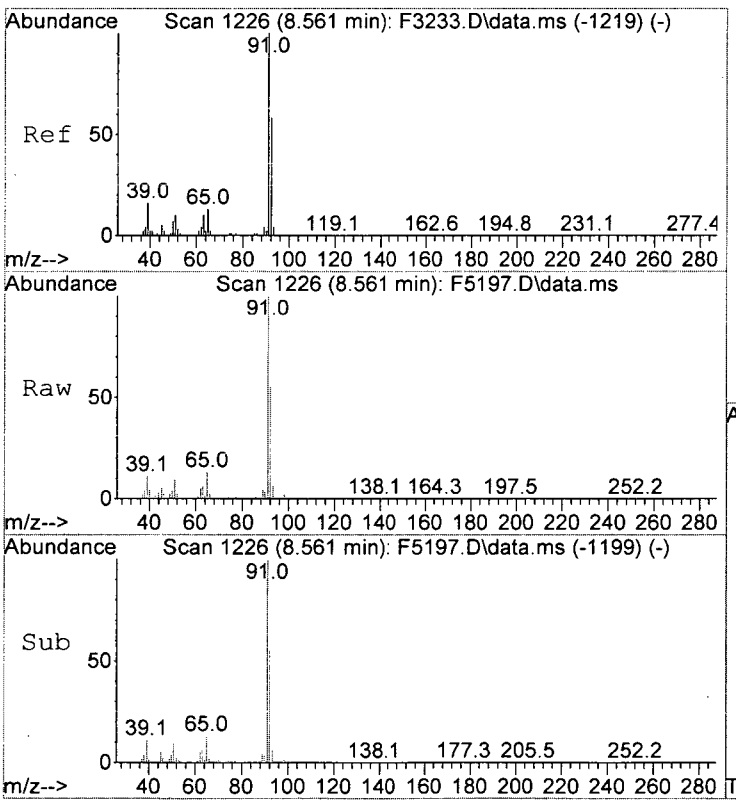


#54
Methylcyclohexane
Concen: 20.79 ug/L
RT: 7.256 min Scan# 1012
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 55 Resp: 235272

Ion	Ratio	Lower	Upper
55	100		
83	92.3	69.2	109.2
98	42.5	22.1	62.1

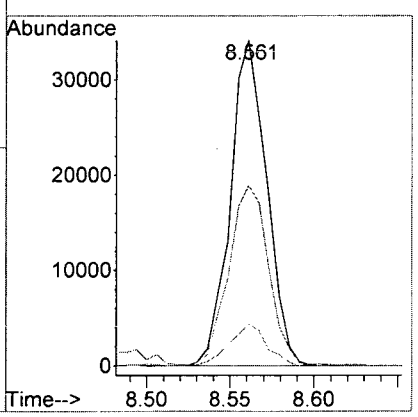


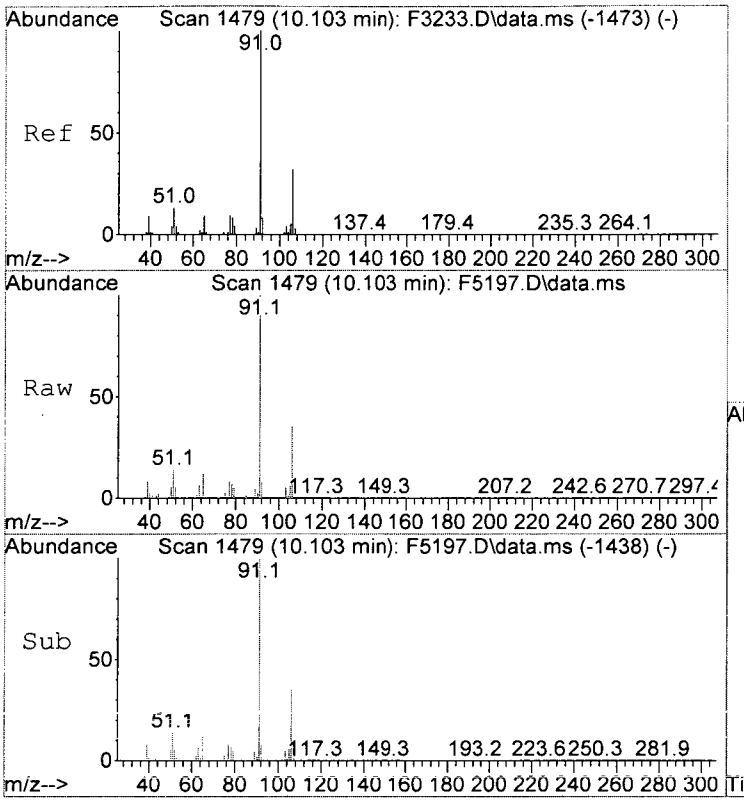


#65
Toluene
Concen: 1.98 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 91 Resp: 51371

Ion	Ratio	Lower	Upper
91	100		
92	55.3	38.2	78.2
65	12.8	0.0	33.1

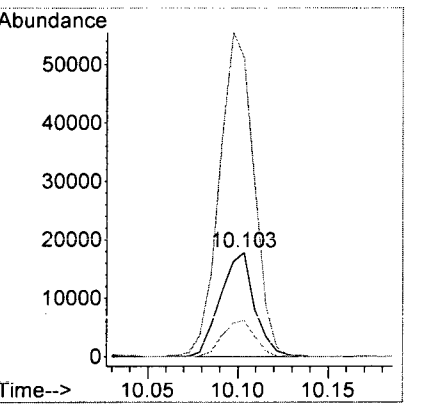


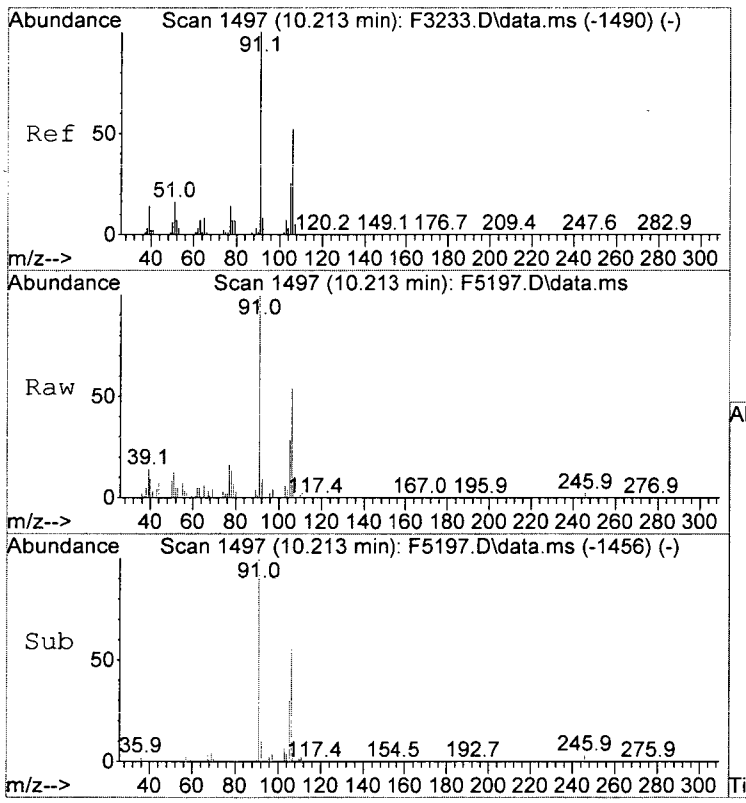


#81
Ethylbenzene
Concen: 2.68 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:106 Resp: 23407

Ion	Ratio	Lower	Upper
106	100		
91	286.8	292.1	332.1#
65	34.7	9.7	49.7

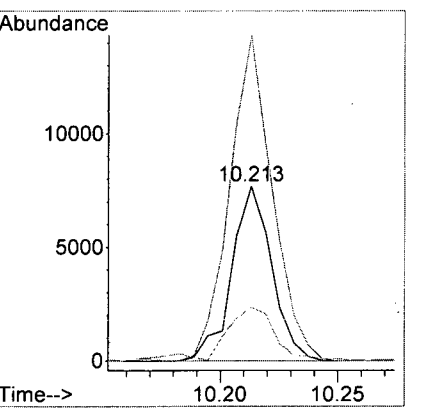


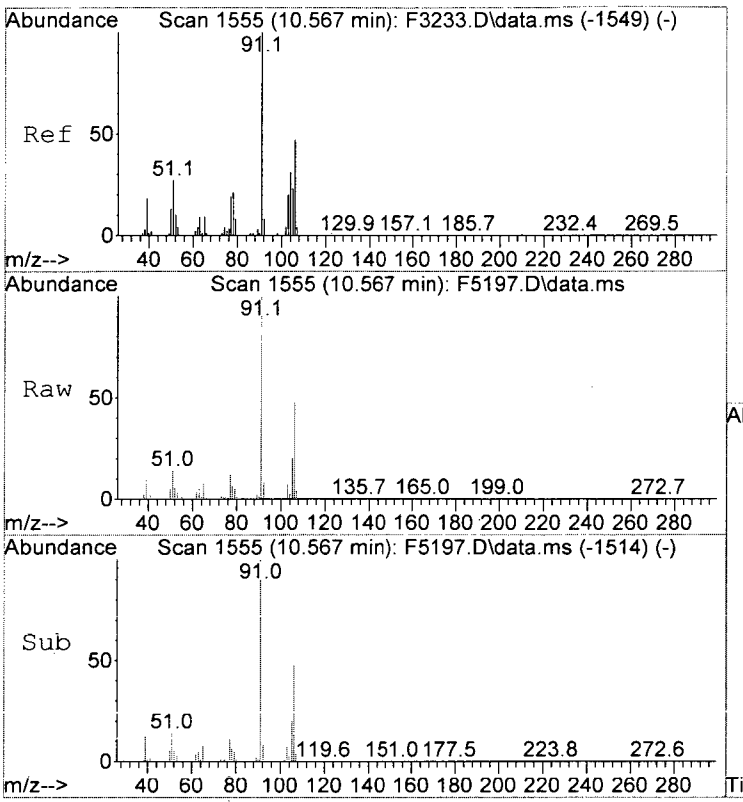


#82
(m+p)Xylene
Concen: 0.81 ug/L
RT: 10.213 min Scan# 1497
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:106 Resp: 9026

Ion	Ratio	Lower	Upper
106	100		
91	186.5	170.6	210.6
77	30.6	6.3	46.3

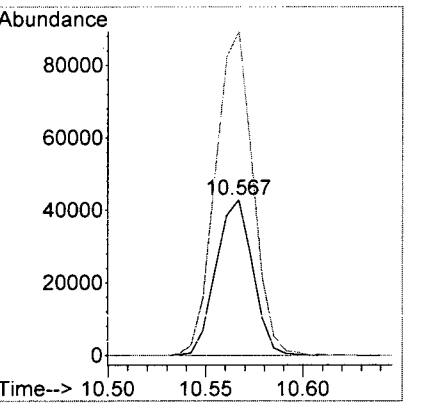


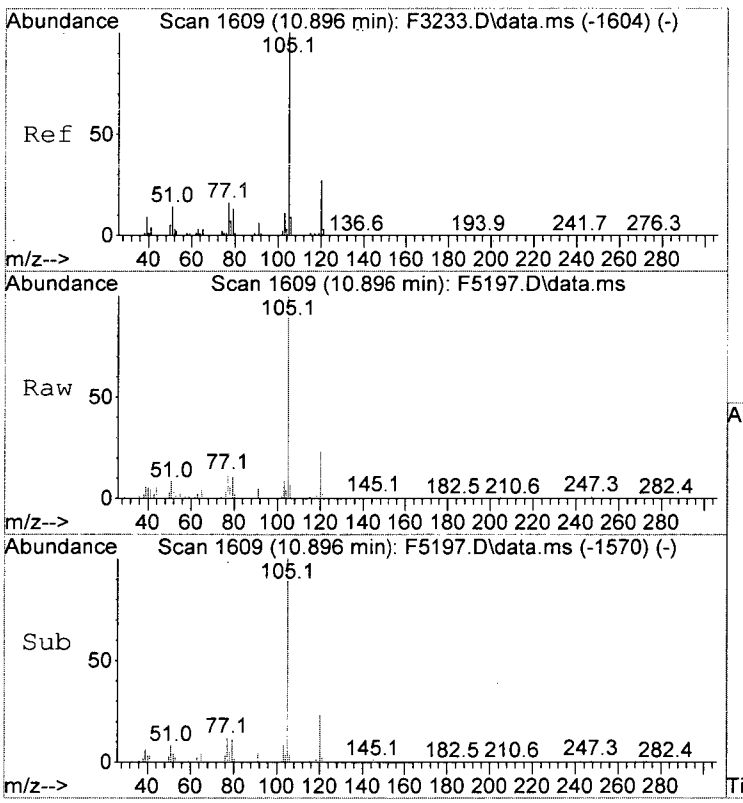


#83
o-Xylene
Concen: 5.06 ug/L
RT: 10.567 min Scan# 1555
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:106 Resp: 56071

Ion	Ratio	Lower	Upper
106	100		
91	208.2	194.2	234.2

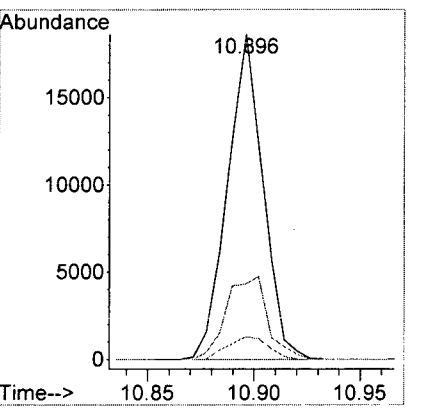


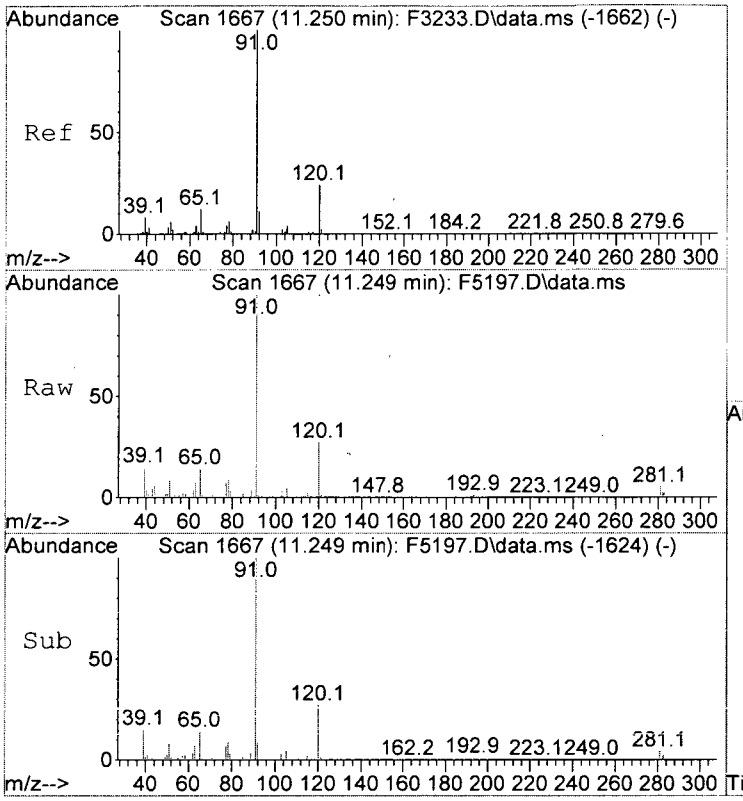


#87
Isopropylbenzene
Concen: 0.74 ug/L
RT: 10.896 min Scan# 1609
Delta R.T. -0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:105 Resp: 21498

Ion	Ratio	Lower	Upper
105	100		
120	23.1	6.5	46.5
106	6.9	0.0	29.0

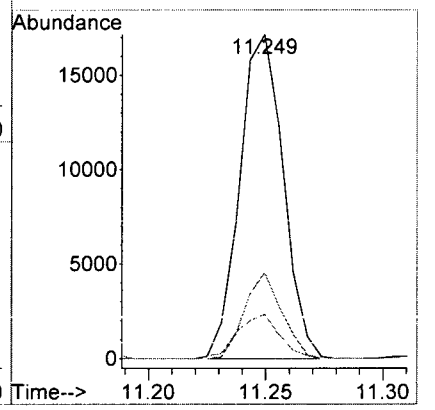


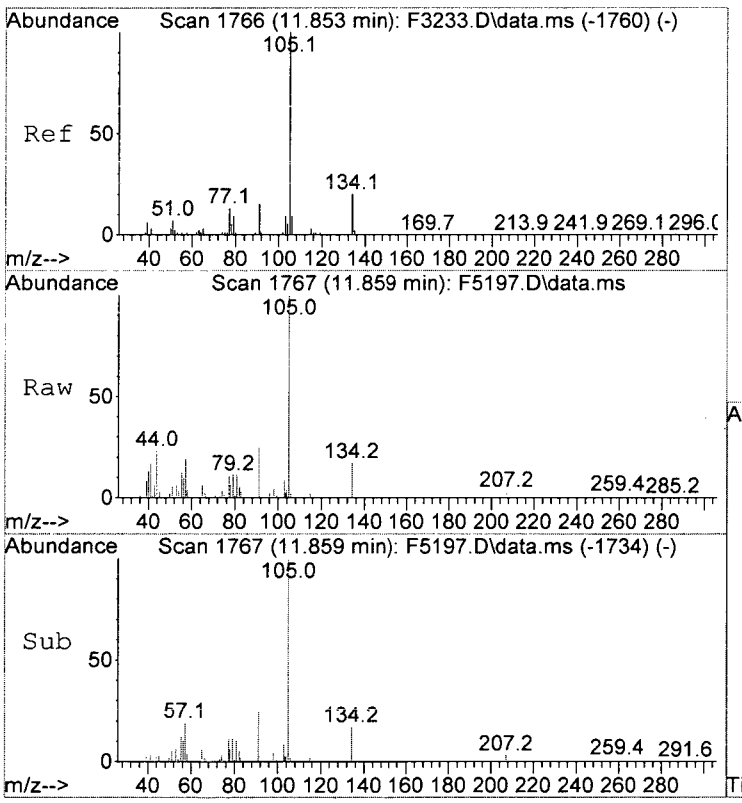


#94
n-Propylbenzene
Concen: 0.67 ug/L
RT: 11.249 min Scan# 1667
Delta R.T. -0.000 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion: 91 Resp: 22014

Ion	Ratio	Lower	Upper
91	100		
120	26.6	3.7	43.7
65	13.6	0.0	31.5

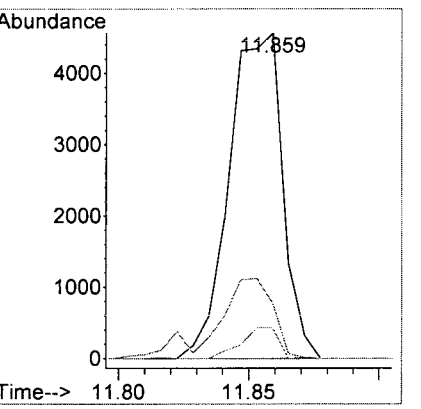




#102
sec-Butylbenzene
Concen: 0.22 ug/L
RT: 11.859 min Scan# 1767
Delta R.T. 0.006 min
Lab File: F5197.D
Acq: 21 Dec 2015 5:18 pm

Tgt Ion:105 Resp: 6442

Ion	Ratio	Lower	Upper
105	100		
134	17.0	0.3	40.3
103	9.2	0.0	29.1



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5231.D
Acq On : 22 Dec 2015 8:13 pm
Operator : F. Naegler
Sample : R1510962-012|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 29 16:09:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

DL

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.659	168	593561	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	903912	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	791062	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	392542	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	276426	49.85	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 99.70%				
46) surr1,1,2-dichloroetha...	6.025	65	368909	49.47	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 98.94%				
64) SURR3,Toluene-d8	8.488	98	1041617	50.57	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.14%				
69) SURR2,BFB	11.018	95	392523	47.73	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.46%				
Target Compounds							Qvalue
4) Vinyl Chloride	1.373	62	554537	55.95	ug/L		96
5) Bromomethane	1.605	94	333	Below Cal		#	28
13) 1,1-Diclethene	2.361	96	1705	0.36	ug/L	#	62
15) Acetone	2.410	43	1885	0.35	ug/L		96
26) trans-1,2-Dichloroethene	3.154	96	1846m	0.35	ug/L		
33) cis-1,2-Dichloroethene	4.611	96	573463	95.46	ug/L		87
42) Cyclohexane	5.592	41	19411	2.02	ug/L		93
47) Benzene	6.104	78	5271	0.22	ug/L	#	46
53) Trichloroethene	7.025	130	15809	2.55	ug/L		92
54) Methylcyclohexane	7.256	55	21704	2.01	ug/L		81
65) Toluene	8.561	91	5207	0.21	ug/L	#	68
81) Ethylbenzene	10.103	106	2063	0.24	ug/L	#	72
83) o-Xylene	10.561	106	5242	0.49	ug/L	#	75

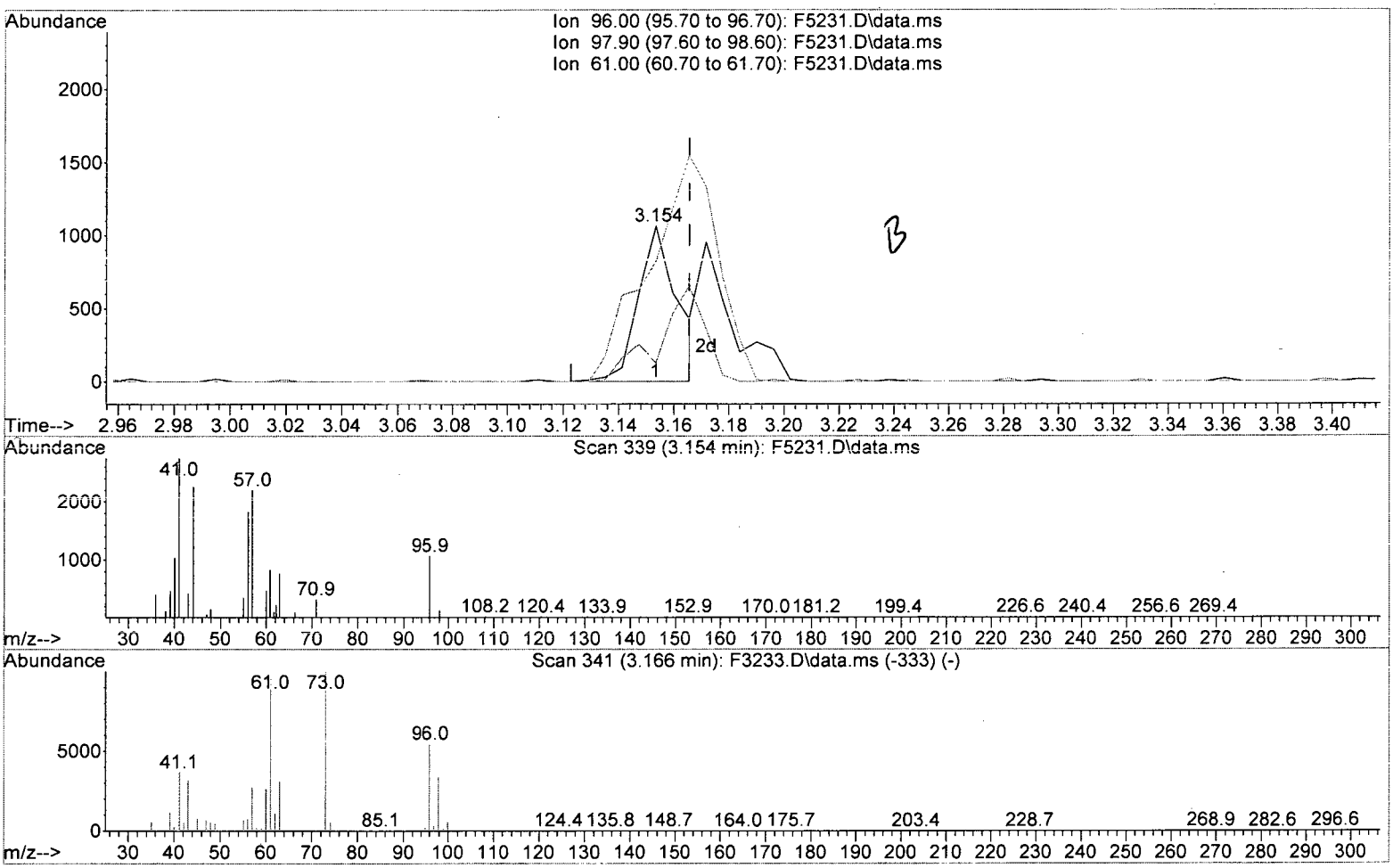
(#) = qualifier out of range (m) = manual integration (+) = signals summed

FL 12/29/15

KR 12/30/15

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5231.D
Acq On : 22 Dec 2015 8:13 pm
Operator : F. Naegler
Sample : R1510962-012|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 22 20:27:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5231.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.154min (-0.012) 0.19 ug/L

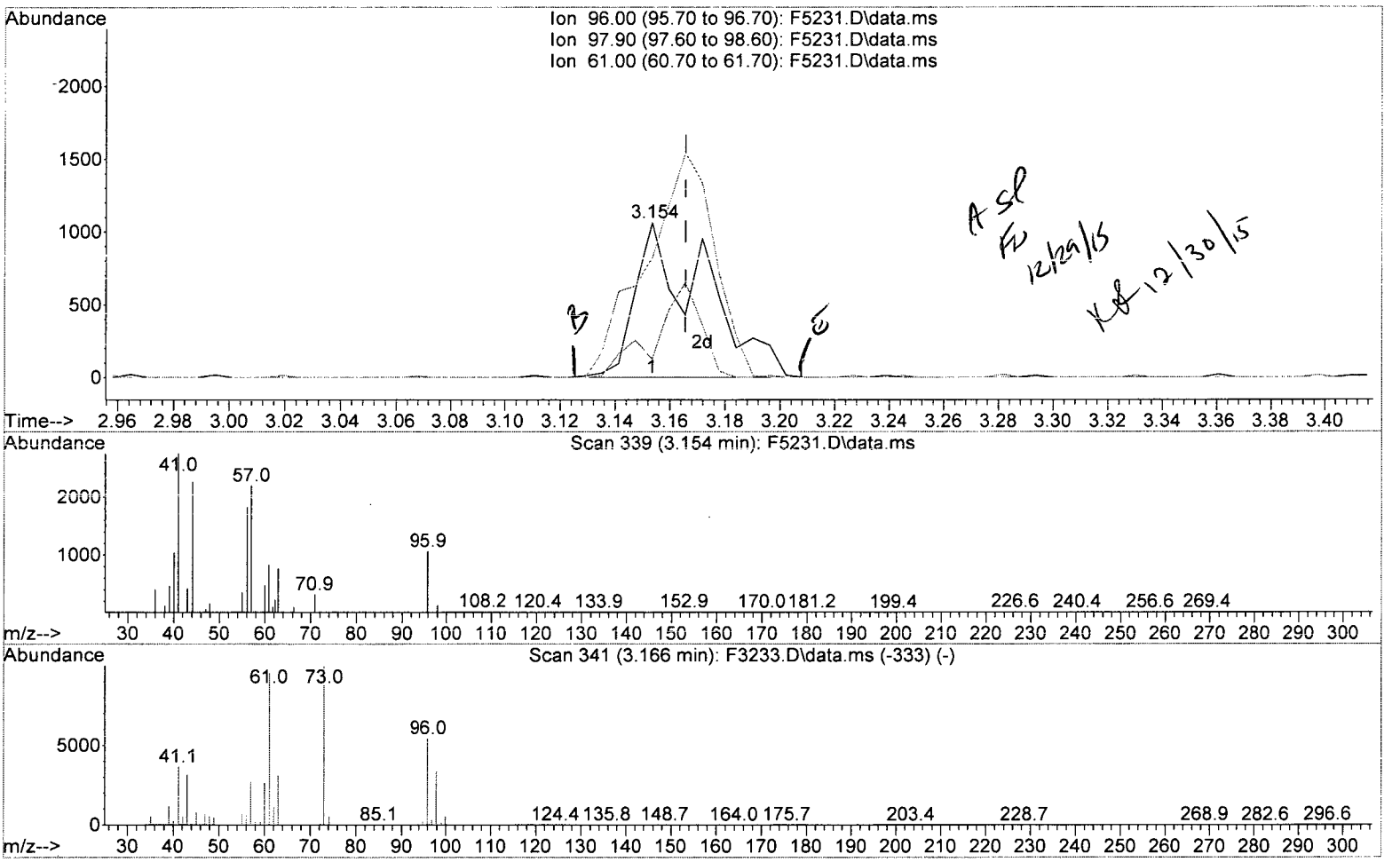
response 1038

Ion	Exp%	Act%
96.00	100	100
97.90	62.30	11.82#
61.00	175.30	86.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5231.D
Acq On : 22 Dec 2015 8:13 pm
Operator : F. Naegler
Sample : R1510962-012|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 22 20:27:53 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5231.D\data.ms

(26) trans-1,2-Dichloroethene (P)

3.154min (-0.012) 0.35 ug/L m

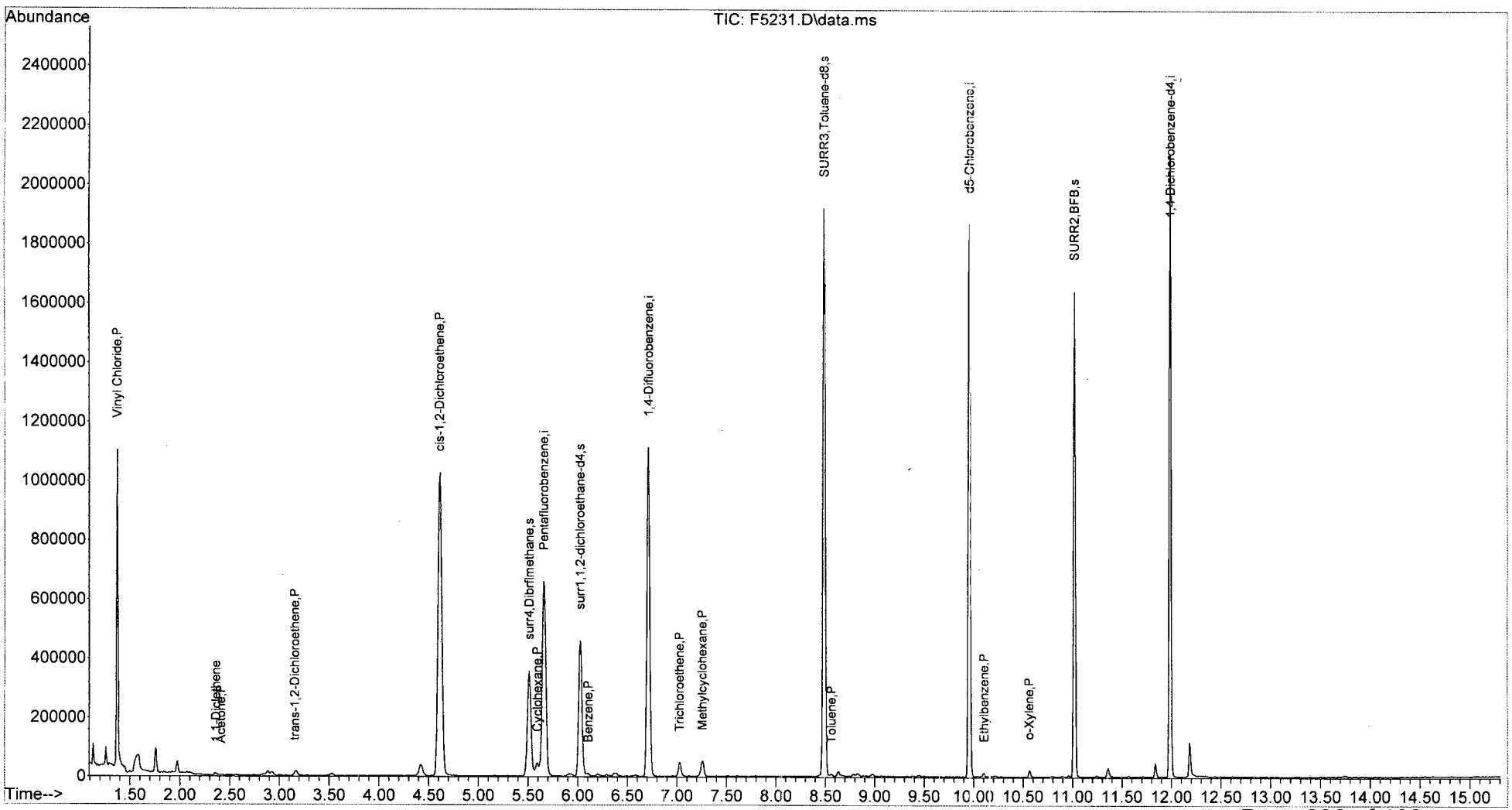
response 1846

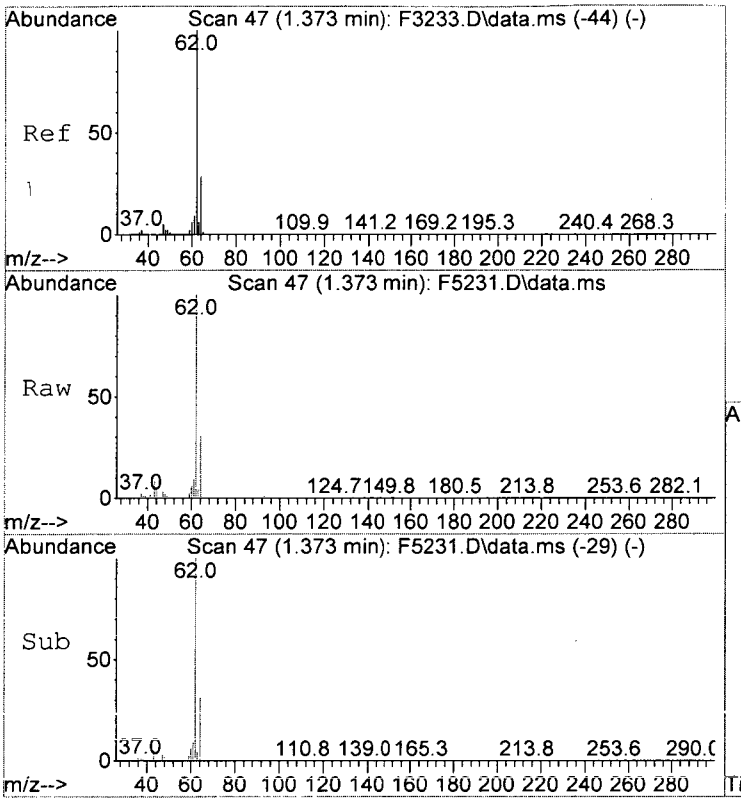
Ion	Exp%	Act%
96.00	100	100
97.90	62.30	11.95#
61.00	175.30	77.33#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5231.D
Acq On : 22 Dec 2015 8:13 pm
Operator : F. Naegler
Sample : R1510962-012|10.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 29 16:09:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

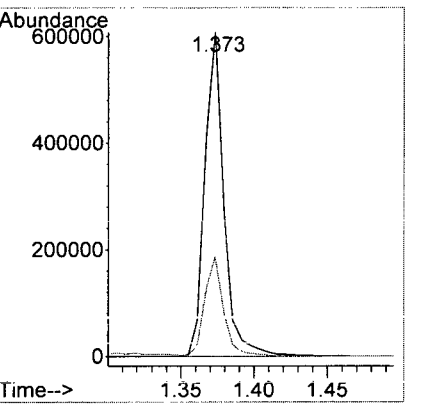


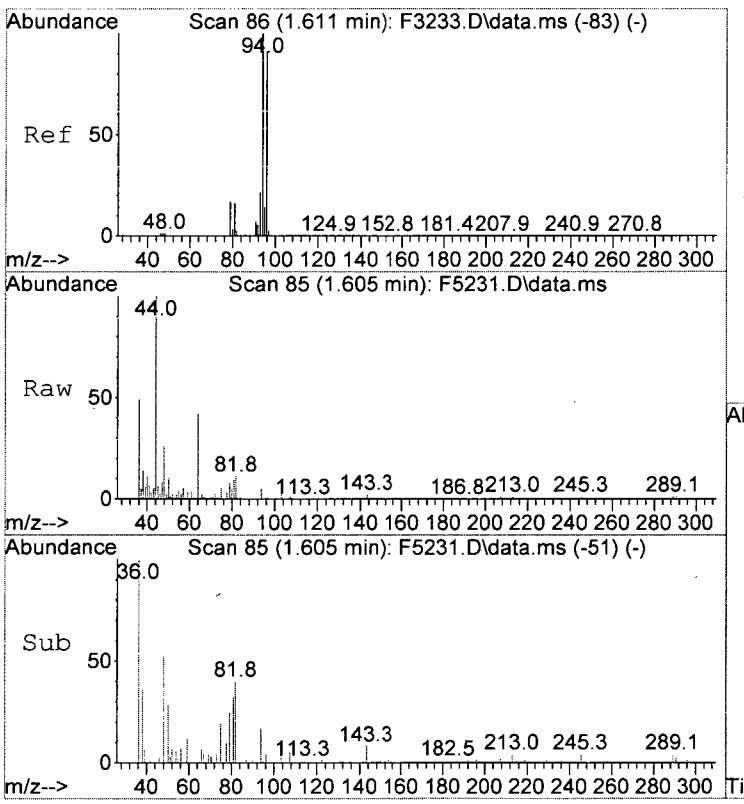


#4
Vinyl Chloride
Concen: 55.95 ug/L
RT: 1.373 min Scan# 47
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 62 Resp: 554537

Ion	Ratio	Lower	Upper
62	100		
64	30.7	8.4	48.4

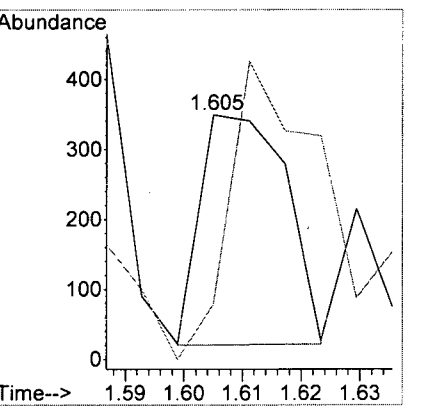


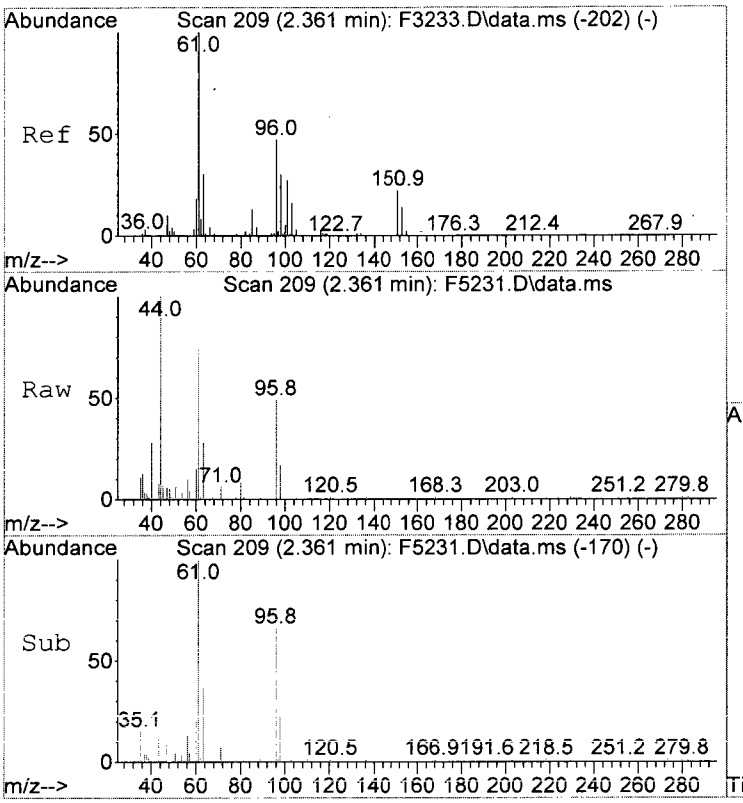


#5
Bromomethane
Concen: Below Cal
RT: 1.605 min Scan# 85
Delta R.T. -0.018 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 94 Resp: 333

Ion	Ratio	Lower	Upper
94	100		
96	22.3	71.0	111.0#

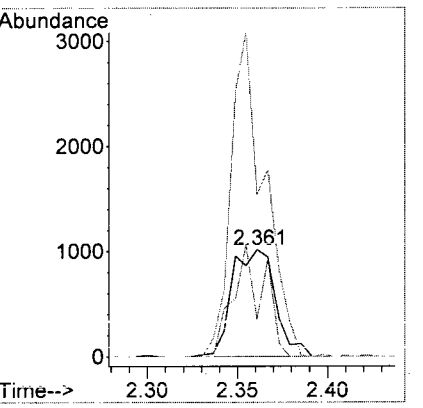


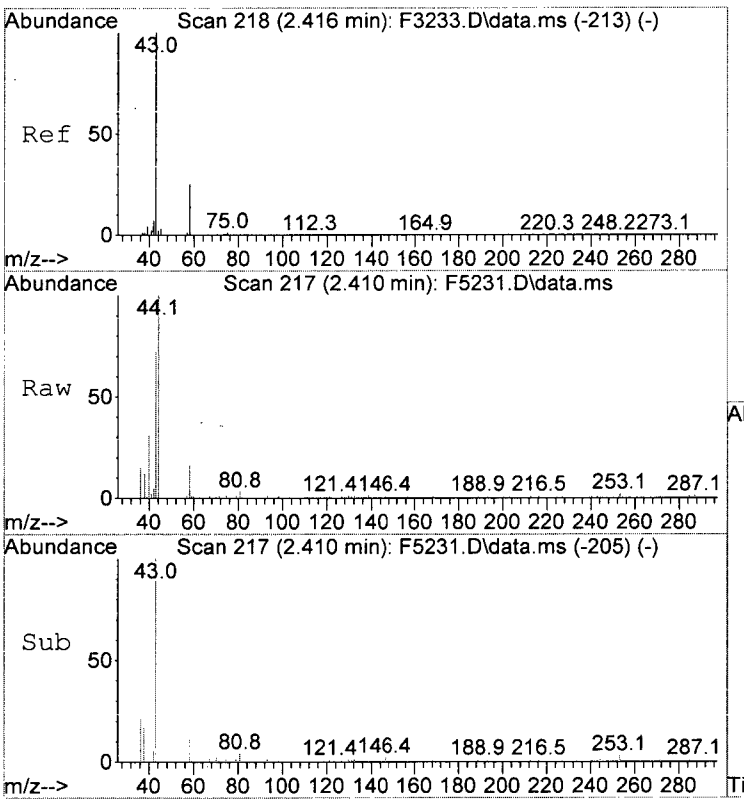


#13
1,1-Diclethene
Concen: 0.36 ug/L
RT: 2.361 min Scan# 209
Delta R.T. -0.012 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 96 Resp: 1705

Ion	Ratio	Lower	Upper
96	100		
98	34.9	44.2	84.2#
61	152.1	192.7	232.7#

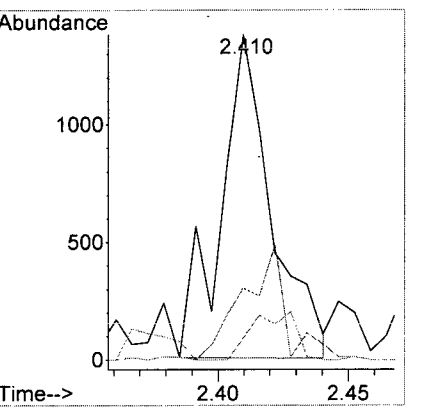


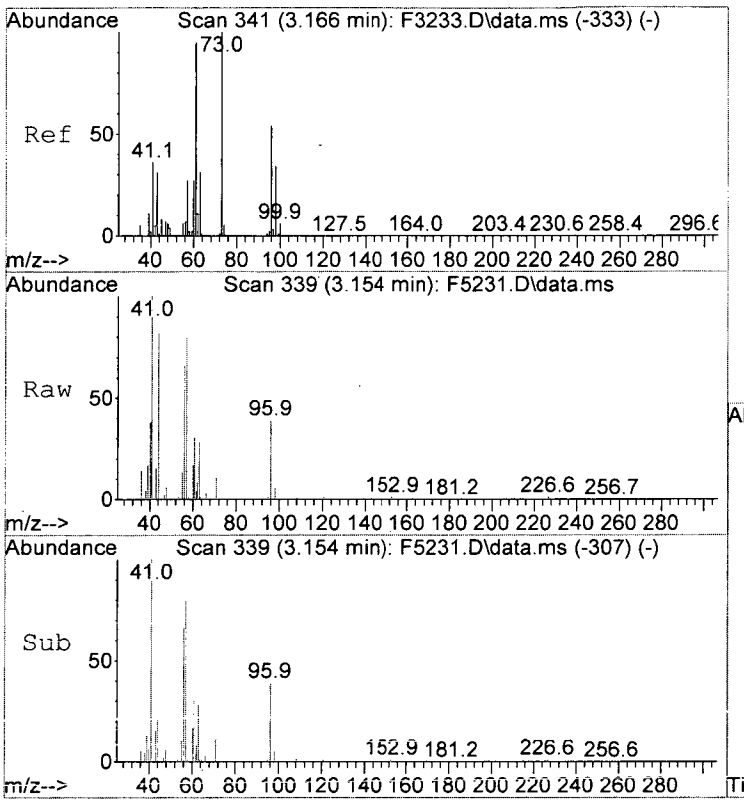


#15
Acetone
Concen: 0.35 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 43 Resp: 1885

Ion	Ratio	Lower	Upper
43	100		
58	22.1	4.3	44.3
42	6.6	0.0	27.3

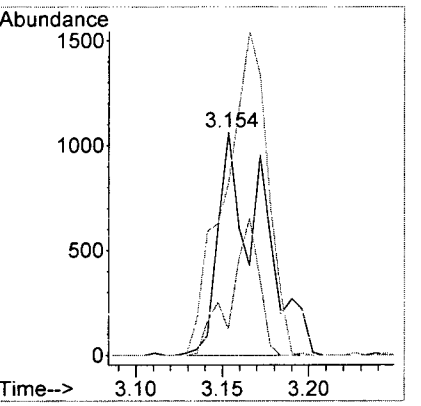


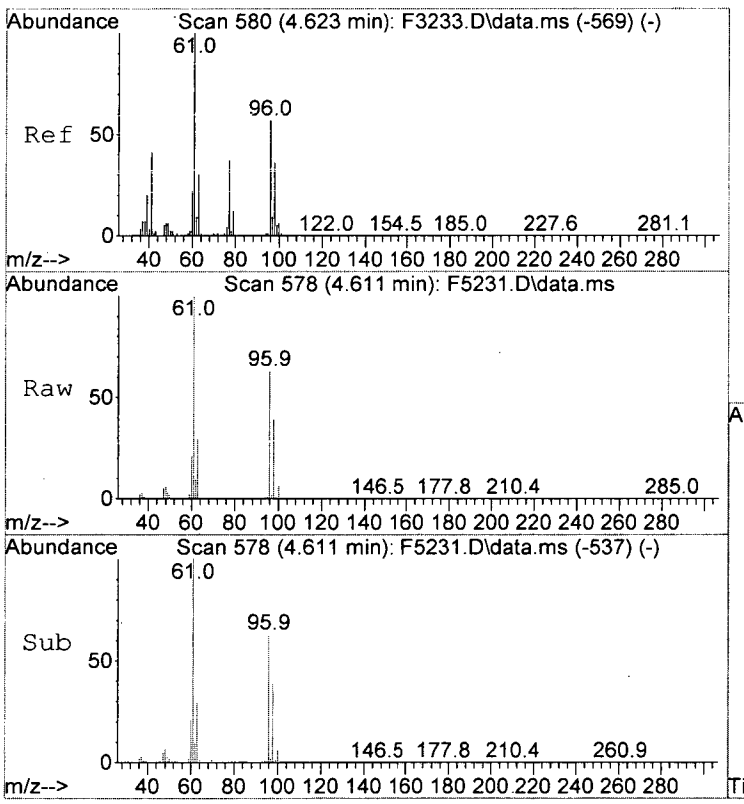


#26
trans-1,2-Dichloroethene
Concen: 0.35 ug/L m
RT: 3.154 min Scan# 339
Delta R.T. -0.012 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 96 Resp: 1846

Ion	Ratio	Lower	Upper
96	100		
98	11.9	42.3	82.3#
61	77.3	155.3	195.3#

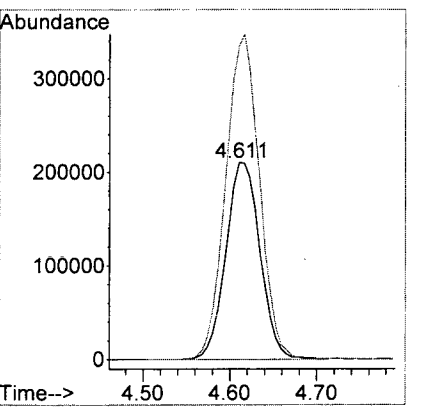


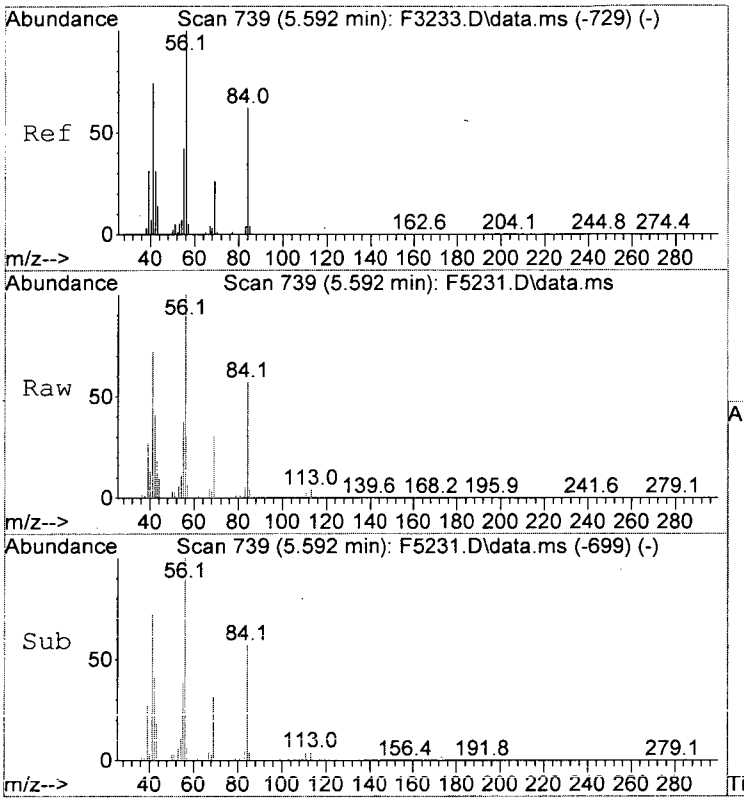


#33
cis-1,2-Dichloroethene
Concen: 95.46 ug/L
RT: 4.611 min Scan# 578
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 96 Resp: 573463

Ion	Ratio	Lower	Upper
96	100		
61	159.3	157.0	197.0

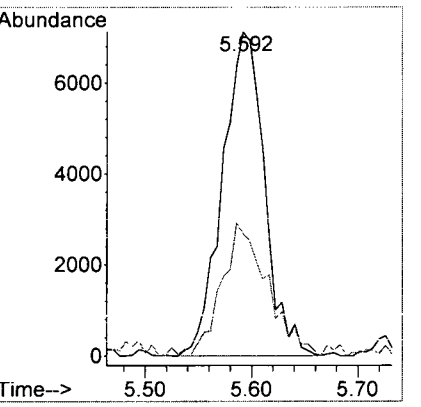


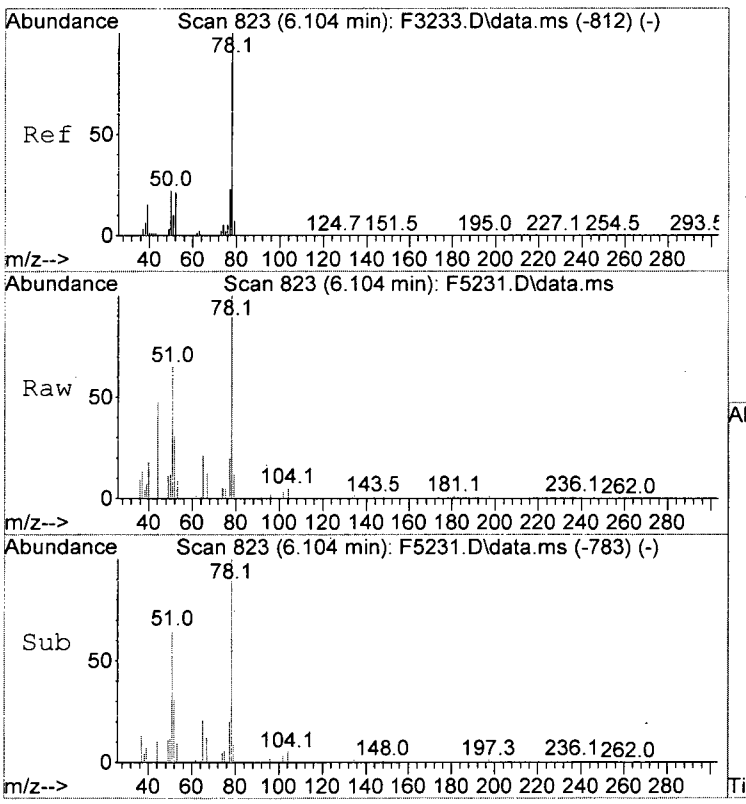


#42
Cyclohexane
Concen: 2.02 ug/L
RT: 5.592 min Scan# 739
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 41 Resp: 19411

Ion	Ratio	Lower	Upper
41	100		
39	37.8	22.1	62.1

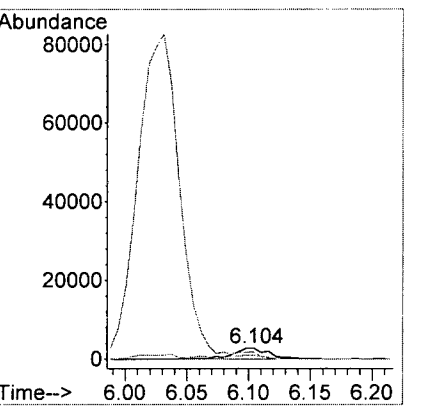


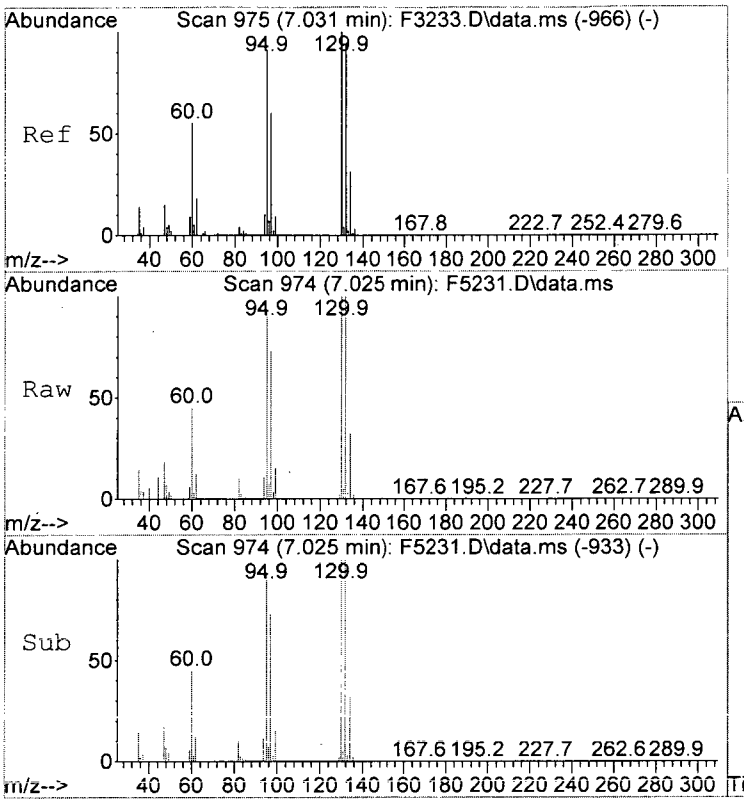


#47
Benzene
Concen: 0.22 ug/L
RT: 6.104 min Scan# 823
Delta R.T. -0.000 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 78 Resp: 5271

Ion	Ratio	Lower	Upper
78	100		
51	64.9	3.0	43.0#
52	31.1	1.6	41.6

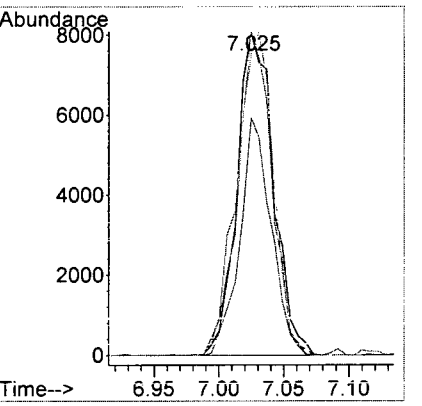


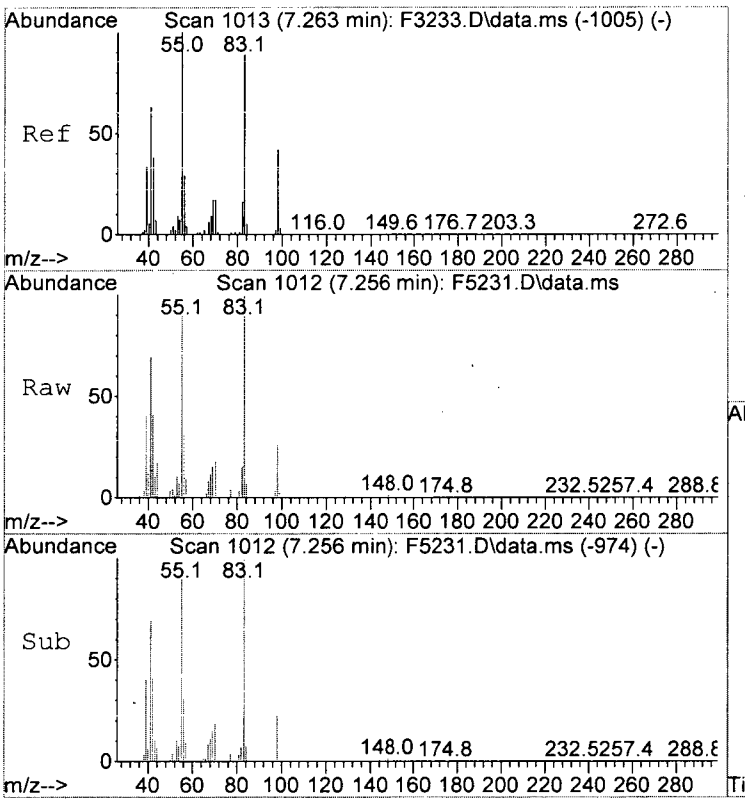


#53
Trichloroethene
Concen: 2.55 ug/L
RT: 7.025 min Scan# 974
Delta R.T. -0.000 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion:130 Resp: 15809

Ion	Ratio	Lower	Upper
130	100		
132	100.4	74.1	114.1
95	93.2	70.9	110.9
97	73.7	39.7	79.7

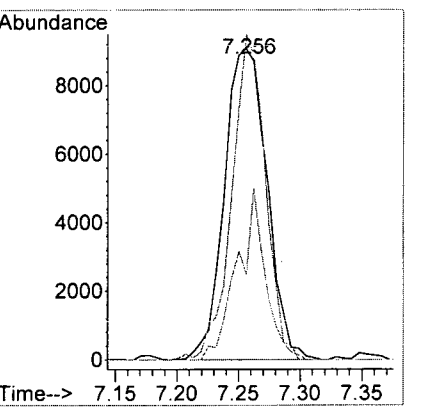


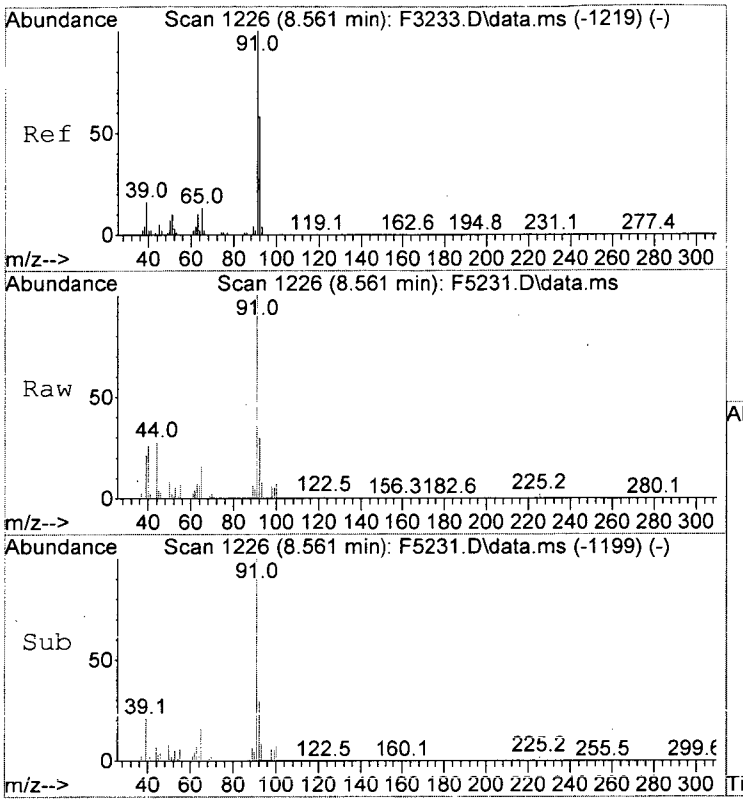


#54
Methylcyclohexane
Concen: 2.01 ug/L
RT: 7.256 min Scan# 1012
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 55 Resp: 21704

Ion	Ratio	Lower	Upper
55	100		
83	104.7	69.2	109.2
98	27.4	22.1	62.1

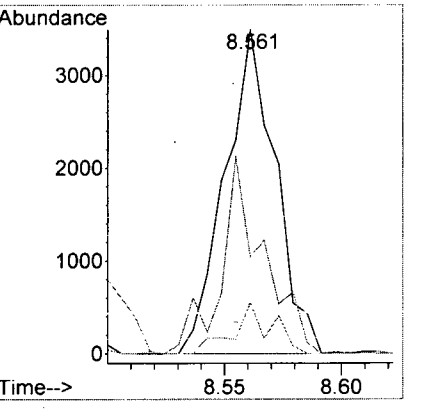


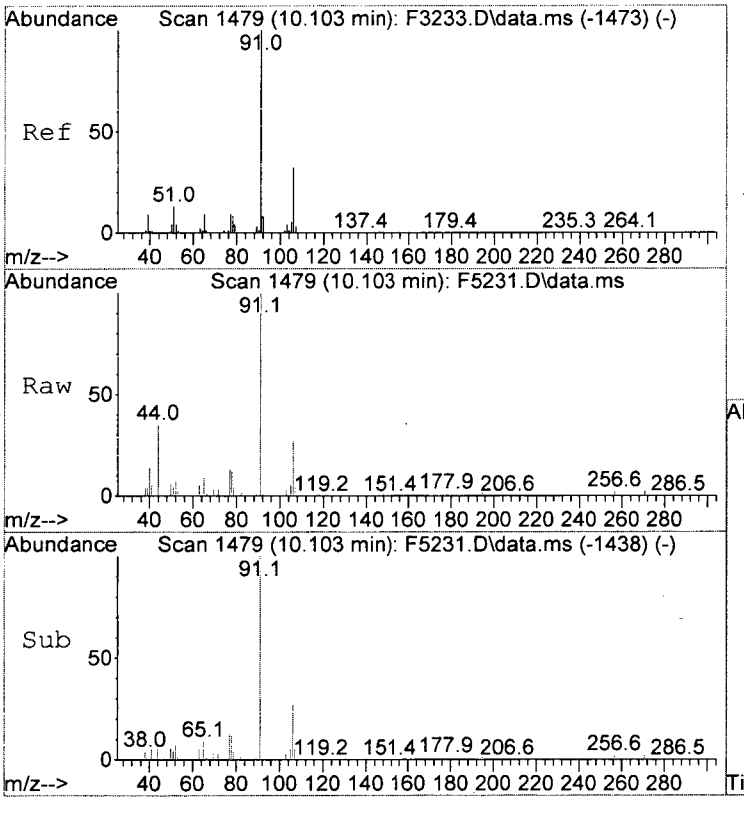


#65
Toluene
Concen: 0.21 ug/L
RT: 8.561 min Scan# 1226
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion: 91 Resp: 5207

Ion	Ratio	Lower	Upper
91	100		
92	29.7	38.2	78.2#
65	15.7	0.0	33.1

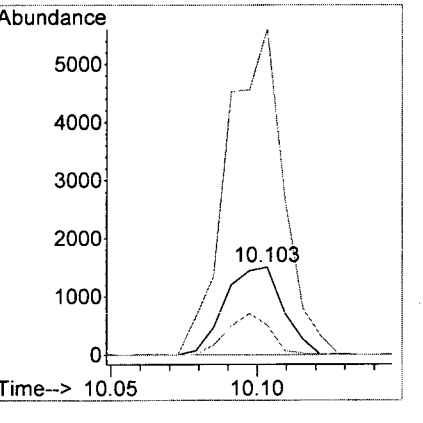


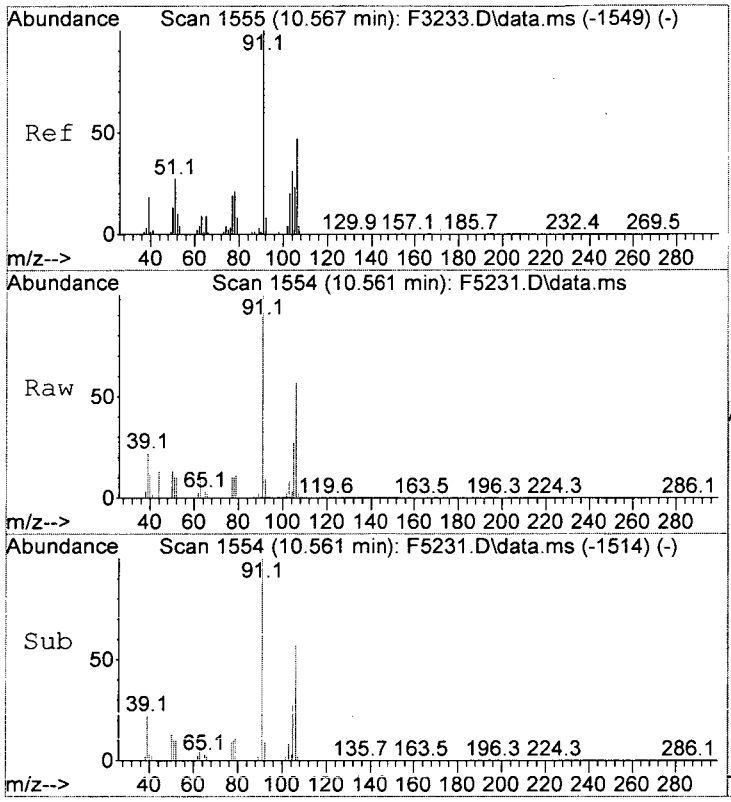


#81
Ethylbenzene
Concen: 0.24 ug/L
RT: 10.103 min Scan# 1479
Delta R.T. -0.000 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion:106 Resp: 2063

Ion	Ratio	Lower	Upper
106	100		
91	372.1	292.1	332.1#
65	33.8	9.7	49.7

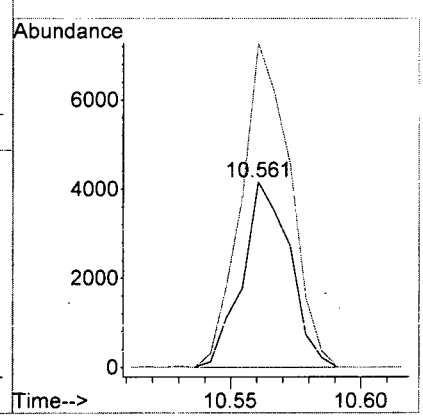




#83
o-Xylene
Concen: 0.49 ug/L
RT: 10.561 min Scan# 1554
Delta R.T. -0.006 min
Lab File: F5231.D
Acq: 22 Dec 2015 8:13 pm

Tgt Ion:106 Resp: 5242

Ion	Ratio	Lower	Upper
106	100		
91	174.9	194.2	234.2#



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1510962-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 17:47		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 17:47		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:47		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 17:47		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 17:47		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 17:47		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 17:47		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 17:47		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 17:47		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 17:47		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 17:47		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 17:47		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 17:47		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 17:47		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 17:47		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 17:47		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 17:47		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 17:47		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 17:47		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:47		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 17:47		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 17:47		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	12/15/15
Sample Matrix:	Water	**Date Received:**	12/16/15
Sample Name:	Trip Blank	**Units:**	µg/L
Lab Code:	R1510962-013	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 17:47		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 17:47		477582	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/22/15 17:47		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 17:47		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 17:47		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 17:47		477582	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/22/15 17:47		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 17:47		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 17:47		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 17:47		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 17:47		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	12/22/15 17:47	
Dibromofluoromethane	102	89-119	12/22/15 17:47	
Toluene-d8	105	87-121	12/22/15 17:47	

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5225.D
Acq On : 22 Dec 2015 5:47 pm
Operator : F. Naegler
Sample : R1510962-013|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 15:37:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.659	168	602999	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	920189	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	791404	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	389454	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	289203	51.23	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 102.46%			
46) surr1,1,2-dichloroetha...	6.025	65	394139	51.91	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.82%			
64) SURR3,Toluene-d8	8.488	98	1104324	52.67	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 105.34%			
69) SURR2,BFB	11.018	95	426900	50.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.98%			
Target Compounds						Qvalue
5) Bromomethane	1.611	94	511	Below Cal	#	19
15) Acetone	2.410	43	2779	0.51	ug/L	77

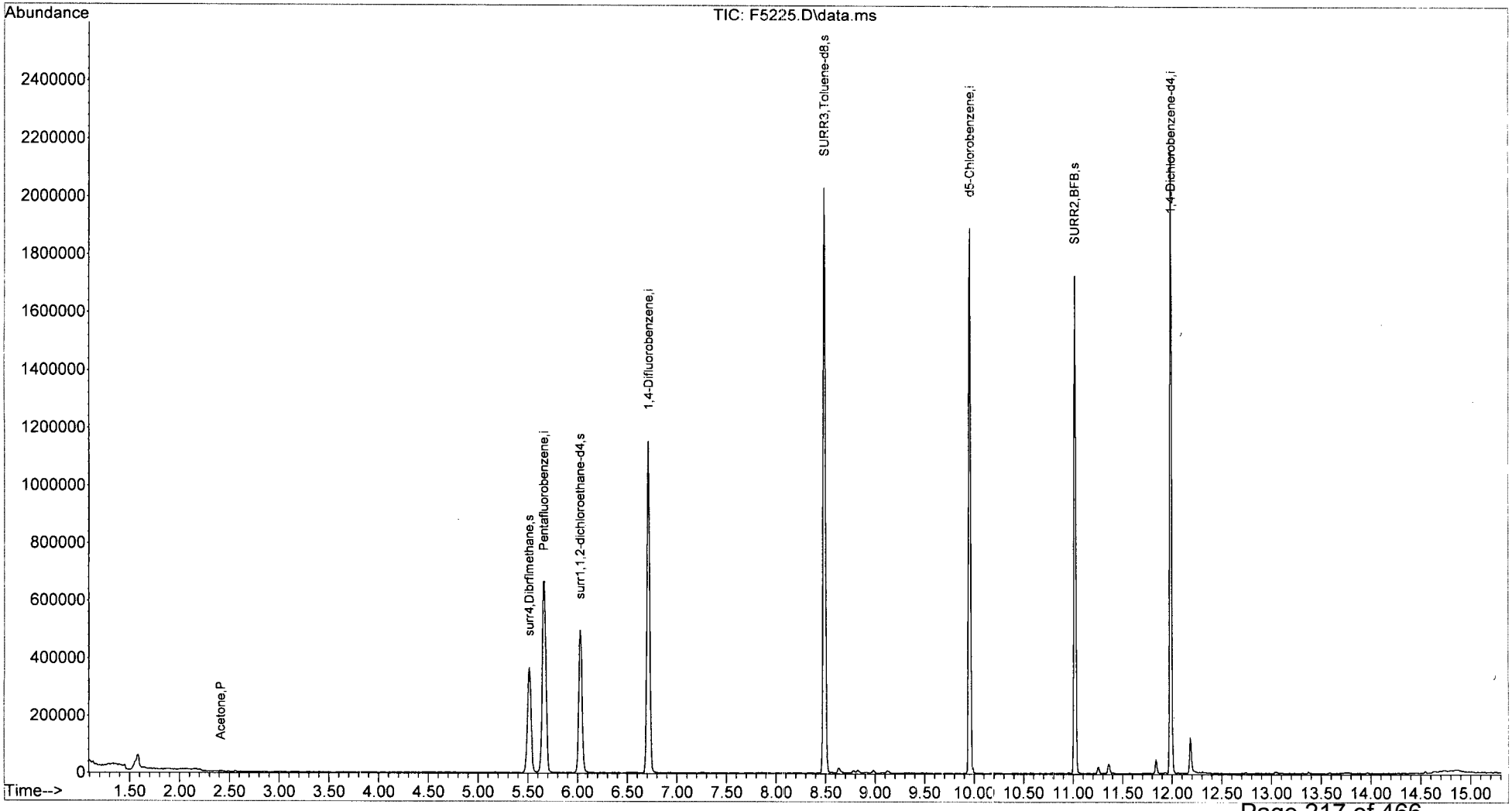
(#) = qualifier out of range (m) = manual integration (+) = signals summed

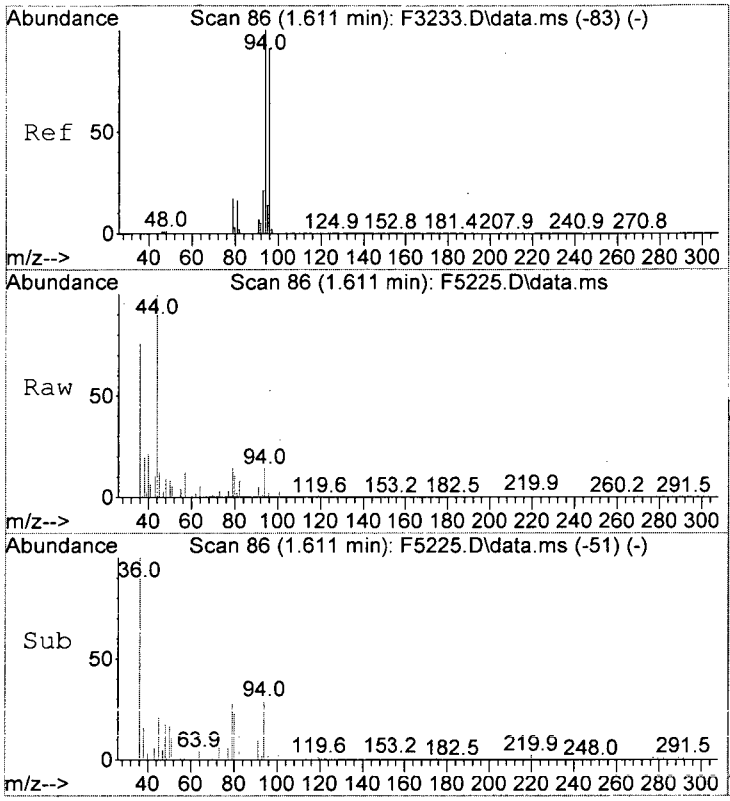
FV 12/29/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5225.D
Acq On : 22 Dec 2015 5:47 pm
Operator : F. Naegler
Sample : R1510962-013|1.0 Inst : MSVOA10
Misc : LABELLA 8043 T4
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 15:37:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

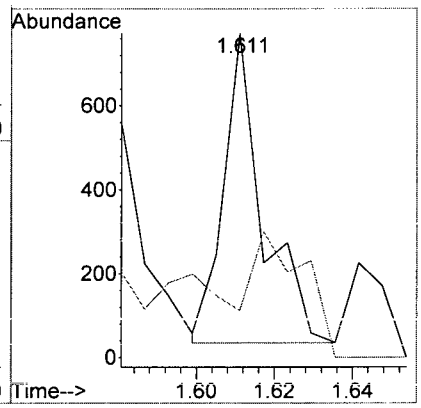


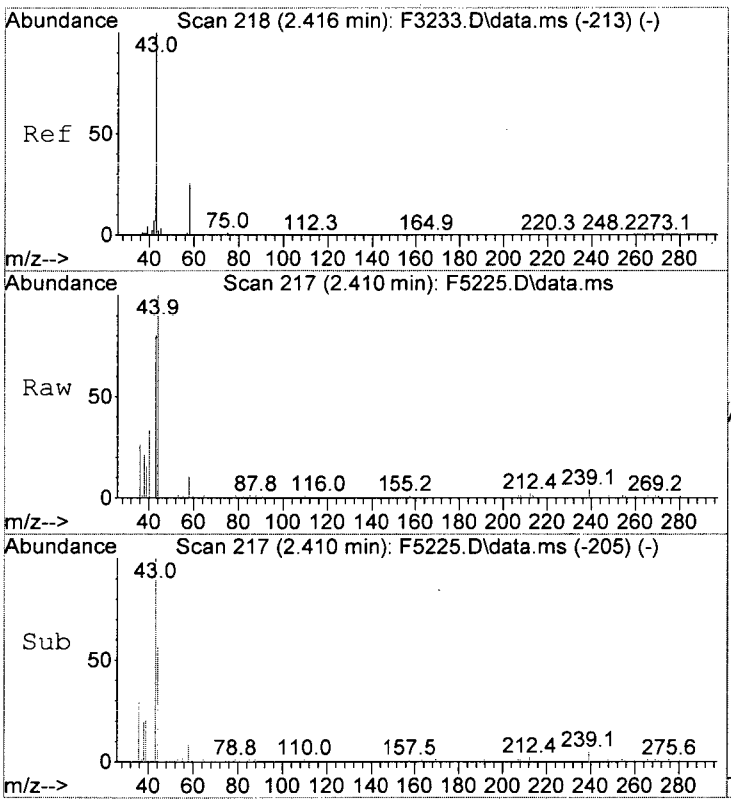


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. -0.012 min
Lab File: F5225.D
Acq: 22 Dec 2015 5:47 pm

Tgt Ion: 94 Resp: 511

Ion	Ratio	Lower	Upper
94	100		
96	14.4	71.0	111.0#

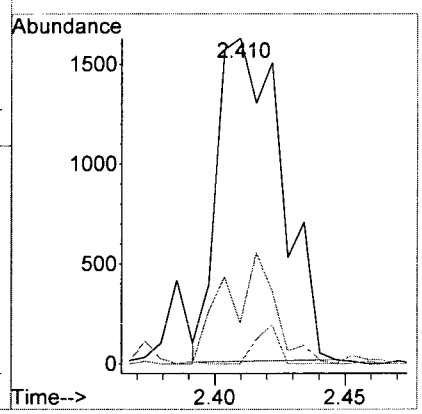




#15
Acetone
Concen: 0.51 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5225.D
Acq: 22 Dec 2015 5:47 pm

Tgt Ion: 43 Resp: 2779

Ion	Ratio	Lower	Upper
43	100		
58	12.5	4.3	44.3
42	0.0	0.0	27.3



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

Initial Calibration - Summary Report

Calibration ID:	RC1500107 10/19/15	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Quadratic	1/X2		0.3243	>=0.99	0.9990
1,1,1,2-Tetrachloroethane	T	Quadratic	1/X2		0.3243	>=0.995	0.9990
1,1,1,2-Tetrachloroethane	T	Quadratic	1/X2		0.3243	>=0.99	0.9990
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6335	<=15	9.2
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.6335	<=20	9.2
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.011	<=15	8.7
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	1.011	<=20	8.7
1,1,2-Trichloroethane	T	Average RF		0.100	0.3206	<=15	4.1
1,1,2-Trichloroethane	T	Average RF		0.100	0.3206	<=20	4.1
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4440	<=15	12.0
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.4440	<=20	12.0
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9320	<=15	4.0
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9320	<=20	4.0
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3976	<=15	4.8
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3976	<=20	4.8
1,1-Dichloropropene	T	Average RF			0.4363	<=15	3.3
1,1-Dichloropropene	T	Average RF			0.4363	<=20	3.3
1,2,3-Trichlorobenzene	T	Average RF			1.247	<=15	6.1
1,2,3-Trichlorobenzene	T	Average RF			1.247	<=20	6.1
1,2,3-Trichloropropane	T	Average RF			0.3280	<=15	11.3
1,2,3-Trichloropropane	T	Average RF			0.3280	<=20	11.3
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.213	<=15	4.9
1,2,4-Trichlorobenzene	T	Average RF		0.200	1.213	<=20	4.9
1,2,4-Trimethylbenzene	T	Average RF			2.705	<=15	7.8
1,2,4-Trimethylbenzene	T	Average RF			2.705	<=20	7.8
1,2-Dibromo-3-chloropropane (DBCP)	T	Quadratic	1/X	0.050	0.1926	>=0.99	0.9990
1,2-Dibromo-3-chloropropane (DBCP)	T	Quadratic	1/X	0.050	0.1926	>=0.995	0.9990
1,2-Dibromo-3-chloropropane (DBCP)	T	Quadratic	1/X	0.050	0.1926	>=0.99	0.9990
1,2-Dibromoethane	T	Average RF		0.100	0.3490	<=15	11.6
1,2-Dibromoethane	T	Average RF		0.100	0.3490	<=20	11.6
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5968	<=15	7.6
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	T	Average RF			0.5968	<=20	7.6
1,2-Dichlorobenzene	T	Average RF		0.400	1.574	<=15	5.7
1,2-Dichlorobenzene	T	Average RF		0.400	1.574	<=20	5.7
1,2-Dichloroethane	T	Average RF		0.100	0.5662	<=15	6.2
1,2-Dichloroethane	T	Average RF		0.100	0.5662	<=20	6.2
1,2-Dichloropropane	T	Average RF		0.100	0.3929	<=15	2.3
1,2-Dichloropropane	T	Average RF		0.100	0.3929	<=20	2.3
1,3,5-Trichlorobenzene	T	Average RF			1.268	<=15	4.5
1,3,5-Trichlorobenzene	T	Average RF			1.268	<=20	4.5
1,3,5-Trimethylbenzene	T	Average RF			2.615	<=15	8.2
1,3,5-Trimethylbenzene	T	Average RF			2.615	<=20	8.2
1,3-Dichlorobenzene	T	Average RF		0.600	1.589	<=15	5.1
1,3-Dichlorobenzene	T	Average RF		0.600	1.589	<=20	5.1
1,3-Dichloropropane	T	Average RF			0.6250	<=15	4.2
1,3-Dichloropropane	T	Average RF			0.6250	<=20	4.2
1,4-Dichlorobenzene	T	Average RF		0.500	1.612	<=15	5.1
1,4-Dichlorobenzene	T	Average RF		0.500	1.612	<=20	5.1
1,4-Dioxane	T	Average RF			0.008522	<=15	6.4
1,4-Dioxane	T	Average RF			0.008522	<=20	6.4
1-Butanol	T	Quadratic	1/X2		0.01854	>=0.99	0.9973
1-Butanol	T	Quadratic	1/X2		0.01854	>=0.995	0.9973

Initial Calibration - Summary Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1-Butanol	T	Quadratic	1/X2		0.01854	>=0.99	0.9973
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.5104	<=15	6.7
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6186	<=15	6.9
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	T	Average RF			0.6186	<=20	6.9
2,2-Dichloropropane	T	Average RF			0.4900	<=15	11.1
2,2-Dichloropropane	T	Average RF			0.4900	<=20	11.1
2,3,6-Trichlorotoluene	T	Average RF			0.8566	<=15	6.4
2,4,5-Trichlorotoluene	T	Average RF			0.9419	<=15	6.8
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.449	<=15	7.2
2,4-Dichlorobenzotrifluoride	T	Average RF			0.7466	<=15	4.4
2,5-Dichlorobenzotrifluoride	T	Average RF			0.8551	<=15	5.0
2-Butanone (MEK)	T	Average RF		0.05	0.6403	<=15	5.5
2-Butanone (MEK)	T	Average RF		0.05	0.6403	<=20	5.5
2-Chloro-1,3-butadiene	T	Average RF			1.123	<=15	6.0
2-Chloro-1,3-butadiene	T	Average RF			1.123	<=20	6.0
2-Chlorobenzotrifluoride	T	Average RF			0.5946	<=15	3.4
2-Chloroethyl Vinyl Ether	T	Average RF			0.3080	<=15	8.3
2-Chloroethyl Vinyl Ether	T	Average RF			0.3080	<=20	8.3
2-Chlorotoluene	T	Average RF			2.167	<=15	7.7
2-Chlorotoluene	T	Average RF			2.167	<=20	7.7
2-Hexanone	T	Average RF		0.05	0.7105	<=15	5.8
2-Hexanone	T	Average RF		0.05	0.7105	<=20	5.8
2-Methyl-1-propanol	T	Quadratic	1/X2		0.04079	>=0.99	0.9996
2-Methyl-1-propanol	T	Quadratic	1/X2		0.04079	>=0.995	0.9996
2-Methyl-1-propanol	T	Quadratic	1/X2		0.04079	>=0.99	0.9996
2-Methyl-2-propanol	T	Quadratic	1/X2		0.1024	>=0.99	0.9995
2-Methyl-2-propanol	T	Quadratic	1/X2		0.1024	>=0.995	0.9995
2-Methyl-2-propanol	T	Quadratic	1/X2		0.1024	>=0.99	0.9995
2-Nitropropane	T	Quadratic	1/X2		0.09612	>=0.99	0.9952
2-Nitropropane	T	Quadratic	1/X2		0.09612	>=0.995	0.9952
2-Nitropropane	T	Quadratic	1/X2		0.09612	>=0.99	0.9952
2-Propanol	T	Quadratic	1/X2		0.08684	>=0.99	0.9998
2-Propanol	T	Quadratic	1/X2		0.08684	>=0.995	0.9998
2-Propanol	T	Quadratic	1/X2		0.08684	>=0.99	0.9998
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.622	<=15	8.4
3,4-Dichlorobenzotrifluoride	T	Average RF			0.8293	<=15	5.5
3-Chloro-1-propene	T	Average RF			0.2277	<=15	6.5
3-Chloro-1-propene	T	Average RF			0.2277	<=20	6.5
3-Chlorobenzotrifluoride	T	Average RF			0.6000	<=15	4.2
3-Chlorotoluene	T	Average RF			2.282	<=15	8.1
4-Chlorotoluene	T	Average RF			2.578	<=15	8.2
4-Chlorotoluene	T	Average RF			2.578	<=20	8.2
4-Isopropyltoluene	T	Average RF			2.775	<=15	7.6
4-Isopropyltoluene	T	Average RF			2.775	<=20	7.6
4-Methyl-2-pentanone	T	Average RF		0.05	0.8337	<=15	6.5
4-Methyl-2-pentanone	T	Average RF		0.05	0.8337	<=20	6.5
Acetone	T	Average RF		0.05	0.4508	<=15	8.2
Acetone	T	Average RF		0.05	0.4508	<=20	8.2
Acetonitrile	T	Average RF			0.1104	<=15	1.8
Acetonitrile	T	Average RF			0.1104	<=20	1.8
Acrolein	T	Average RF			0.1730	<=15	7.1
Acrolein	T	Average RF			0.1730	<=20	7.1

Initial Calibration - Summary Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acrylonitrile	T	Average RF			0.4218	<=15	5.4
Acrylonitrile	T	Average RF			0.4218	<=20	5.4
Benzene	T	Average RF		0.500	1.333	<=15	5.6
Benzene	T	Average RF		0.500	1.333	<=20	5.6
Bromobenzene	T	Average RF			0.8385	<=15	7.3
Bromobenzene	T	Average RF			0.8385	<=20	7.3
Bromochloromethane	T	Average RF			0.3397	<=15	3.8
Bromochloromethane	T	Average RF			0.3397	<=20	3.8
Bromodichloromethane	T	Average RF		0.200	0.3922	<=15	10.2
Bromodichloromethane	T	Average RF		0.200	0.3922	<=20	10.2
Bromoform	T	Quadratic	1/X2	0.100	0.2540	>=0.99	0.9969
Bromoform	T	Quadratic	1/X2	0.100	0.2540	>=0.995	0.9969
Bromoform	T	Quadratic	1/X2	0.100	0.2540	>=0.99	0.9969
Bromomethane	T	Quadratic	1/X	0.100	0.3944	>=0.99	0.9921
Bromomethane	T	Quadratic	1/X	0.100	0.3944	>=0.995	0.9921
Bromomethane	T	Quadratic	1/X	0.100	0.3944	>=0.99	0.9921
Carbon Disulfide	T	Average RF		0.100	1.165	<=15	5.3
Carbon Disulfide	T	Average RF		0.100	1.165	<=20	5.3
Carbon Tetrachloride	T	Average RF		0.05	0.1137	<=15	13.4
Carbon Tetrachloride	T	Average RF		0.100	0.1137	<=20	13.4
Chlorobenzene	T	Average RF		0.500	1.054	<=15	5.9
Chlorobenzene	T	Average RF		0.500	1.054	<=20	5.9
Chloroethane	T	Average RF		0.100	0.4156	<=15	6.6
Chloroethane	T	Average RF		0.100	0.4156	<=20	6.6
Chloroform	T	Average RF		0.200	0.8370	<=15	3.7
Chloroform	T	Average RF		0.200	0.8370	<=20	3.7
Chloromethane	T	Average RF		0.100	1.205	<=15	3.6
Chloromethane	T	Average RF		0.100	1.205	<=20	3.6
Cyclohexane	T	Average RF		0.100	0.5312	<=15	3.6
Cyclohexane	T	Average RF		0.100	0.5312	<=20	3.6
Cyclohexanone	T	Average RF			0.1155	<=15	9.3
Cyclohexanone	T	Average RF			0.1155	<=20	9.3
Dibromochloromethane	T	Quadratic	1/X2	0.100	0.3464	>=0.99	0.9975
Dibromochloromethane	T	Quadratic	1/X2	0.100	0.3464	>=0.995	0.9975
Dibromochloromethane	T	Quadratic	1/X2	0.100	0.3464	>=0.99	0.9975
Dibromomethane	T	Average RF			0.2139	<=15	9.8
Dibromomethane	T	Average RF			0.2139	<=20	9.8
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7191	<=15	6.8
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.7191	<=20	6.8
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9644	<=15	7.4
Dichlorofluoromethane (CFC 21)	T	Average RF			0.9644	<=20	7.4
Dichloromethane	T	Average RF		0.100	0.5197	<=15	14.8
Dichloromethane	T	Average RF		0.100	0.5197	<=20	14.8
Diethyl Ether	T	Average RF			0.5802	<=15	5.7
Diethyl Ether	T	Average RF			0.5802	<=20	5.7
Diisopropyl Ether	T	Average RF			2.681	<=15	3.5
Diisopropyl Ether	T	Average RF			2.681	<=20	3.5
Ethyl Methacrylate	T	Quadratic	1/X2		0.4863	>=0.99	0.9969
Ethyl Methacrylate	T	Quadratic	1/X2		0.4863	>=0.995	0.9969
Ethyl Methacrylate	T	Quadratic	1/X2		0.4863	>=0.99	0.9969
Ethyl tert-Butyl Ether	T	Average RF			1.738	<=15	9.5
Ethyl tert-Butyl Ether	T	Average RF			1.738	<=20	9.5

Initial Calibration - Summary Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Ethylbenzene	T	Average RF		0.100	0.5326	<=15	11.3
Ethylbenzene	T	Average RF		0.100	0.5326	<=20	11.3
Hexachlorobutadiene	T	Average RF			0.5329	<=15	9.1
Hexachlorobutadiene	T	Average RF			0.5329	<=20	9.1
Iodomethane	T	Quadratic	1/X2		0.5913	>=0.99	0.9954
Iodomethane	T	Quadratic	1/X2		0.5913	>=0.995	0.9954
Iodomethane	T	Quadratic	1/X2		0.5913	>=0.99	0.9954
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.763	<=15	6.2
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.763	<=20	6.2
Methacrylonitrile	T	Average RF			0.3097	<=15	7.6
Methacrylonitrile	T	Average RF			0.3097	<=20	7.6
Methyl Acetate	T	Average RF		0.100	0.9241	<=15	4.2
Methyl Acetate	T	Average RF		0.100	0.9241	<=20	4.2
Methyl Methacrylate	T	Average RF			0.3085	<=15	10.0
Methyl Methacrylate	T	Average RF			0.3085	<=20	10.0
Methyl tert-Butyl Ether	T	Average RF		0.100	1.623	<=15	5.2
Methyl tert-Butyl Ether	T	Average RF		0.100	1.623	<=20	5.2
Methylcyclohexane	T	Average RF		0.100	0.5964	<=15	2.9
Methylcyclohexane	T	Average RF		0.100	0.5964	<=20	2.9
Naphthalene	T	Average RF			3.639	<=15	9.7
Naphthalene	T	Average RF			3.639	<=20	9.7
Propionitrile	T	Average RF			0.1710	<=15	8.6
Propionitrile	T	Average RF			0.1710	<=20	8.6
Styrene	T	Average RF		0.300	1.163	<=15	3.1
Styrene	T	Average RF		0.300	1.163	<=20	3.1
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3091	<=15	5.8
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3091	<=20	5.8
Tetrahydrofuran (THF)	T	Average RF			0.4155	<=15	4.3
Tetrahydrofuran (THF)	T	Average RF			0.4155	<=20	4.3
Toluene	T	Average RF		0.400	1.369	<=15	6.7
Toluene	T	Average RF		0.400	1.369	<=20	6.7
Trichloroethene (TCE)	T	Average RF		0.200	0.3427	<=15	6.8
Trichloroethene (TCE)	T	Average RF		0.200	0.3427	<=20	6.8
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7168	<=15	4.6
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.7168	<=20	4.6
Vinyl Acetate	T	Quadratic	1/X2		0.09976	>=0.99	0.9989
Vinyl Acetate	T	Quadratic	1/X2		0.09976	>=0.995	0.9989
Vinyl Acetate	T	Quadratic	1/X2		0.09976	>=0.99	0.9989
Vinyl Chloride	T	Average RF		0.100	0.8349	<=15	4.7
Vinyl Chloride	T	Average RF		0.100	0.8349	<=20	4.7
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5060	<=15	4.3
cis-1,2-Dichloroethene	T	Average RF		0.100	0.5060	<=20	4.3
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4736	<=15	15.0
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4736	<=20	15.0
m,p-Xylenes	T	Average RF		0.100	0.6810	<=15	6.3
m,p-Xylenes	T	Average RF		0.100	0.6810	<=20	6.3
n-Butyl Acetate	T	Quadratic	1/X		1.096	>=0.99	0.9979
n-Butyl Acetate	T	Quadratic	1/X		1.096	>=0.995	0.9979
n-Butyl Acetate	T	Quadratic	1/X		1.096	>=0.99	0.9979
n-Butylbenzene	T	Average RF			2.584	<=15	6.2
n-Butylbenzene	T	Average RF			2.584	<=20	6.2
n-Heptane	T	Average RF			0.7115	<=15	3.8

Initial Calibration - Summary Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
n-Heptane	T	Average RF			0.7115	<=20	3.8
n-Propylbenzene	T	Average RF			3.741	<=15	12.3
n-Propylbenzene	T	Average RF			3.741	<=20	12.3
o-Xylene	T	Average RF		0.300	0.6755	<=15	6.0
o-Xylene	T	Average RF		0.300	0.6755	<=20	6.0
sec-Butylbenzene	T	Average RF			3.415	<=15	10.0
sec-Butylbenzene	T	Average RF			3.415	<=20	10.0
tert-Amyl Methyl Ether	T	Average RF			0.9624	<=15	9.6
tert-Amyl Methyl Ether	T	Average RF			0.9624	<=20	9.6
tert-Butylbenzene	T	Average RF			2.382	<=15	9.2
tert-Butylbenzene	T	Average RF			2.382	<=20	9.2
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4501	<=15	4.4
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4501	<=20	4.4
trans-1,3-Dichloropropene	T	Quadratic	1/X2	0.100	0.4071	>=0.99	0.9956
trans-1,3-Dichloropropene	T	Quadratic	1/X2	0.100	0.4071	>=0.995	0.9956
trans-1,3-Dichloropropene	T	Quadratic	1/X2	0.100	0.4071	>=0.99	0.9956
trans-1,4-Dichloro-2-butene	T	Quadratic	1/X2		0.1996	>=0.99	0.9974
trans-1,4-Dichloro-2-butene	T	Quadratic	1/X2		0.1996	>=0.995	0.9974
trans-1,4-Dichloro-2-butene	T	Quadratic	1/X2		0.1996	>=0.99	0.9974
1,2-Dichloroethane-d4	S	Average RF			0.4125	<=15	5.4
1,2-Dichloroethane-d4	S	Average RF			0.4125	<=20	5.4
4-Bromofluorobenzene	S	Average RF			0.4549	<=15	6.3
4-Bromofluorobenzene	S	Average RF			0.4549	<=20	6.3
Dibromofluoromethane	S	Average RF			0.3067	<=15	6.1
Dibromofluoromethane	S	Average RF			0.3067	<=20	6.1
Toluene-d8	S	Average RF			1.139	<=15	6.3
Toluene-d8	S	Average RF			1.139	<=20	6.3

Exceptions

QAP	Method
DOD QSM V4.2 Rochester	8260C

Compound	Type	Criteria	Result
Bromomethane	COD	>= 0.995	0.9921

Initial Calibration - Detailed Report

Calibration ID: RC1500107 10/19/15 **Instrument ID:** R-MS-10
Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500107-01	0.5 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3228.D	10/19/15 18:23
02	RC1500107-02	1.0 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3229.D	10/19/15 18:47
03	RC1500107-03	2.0 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3230.D	10/19/15 19:11
04	RC1500107-04	5.0 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3231.D	10/19/15 19:35
05	RC1500107-05	20 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3232.D	10/19/15 20:00
06	RC1500107-06	50 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3233.D	10/19/15 20:24
07	RC1500107-07	100 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3234.D	10/19/15 20:48
08	RC1500107-08	150 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3235.D	10/19/15 21:13
09	RC1500107-09	200 PPB STD	I:\ACQUDATA\msvoa10\data\101915\F3236.D	10/19/15 21:37

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

1,1,1,2-Tetrachloroethane Quadratic 1/X2 COD = 0.9990 $Y = 0.01806 X^2 + 0.3242 X + -0.001000$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2348	02	1.000	0.2599	03	2.000	0.2864	04	5.000	0.3157
05	20.000	0.3287	06	50.000	0.3594	07	100.000	0.3733	08	150.000	0.3677
09	200.000	0.3927									

1,1,1-Trichloroethane (TCA) Average RF RSD = 9.2 Average RF = 0.6335

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6244	02	1.000	0.5103	03	2.000	0.5813	04	5.000	0.6383
05	20.000	0.6590	06	50.000	0.6445	07	100.000	0.6790	08	150.000	0.6562
09	200.000	0.7086									

1,1,2,2-Tetrachloroethane Average RF RSD = 8.7 Average RF = 1.011

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.017	02	1.000	0.8140	03	2.000	0.9339	04	5.000	1.082
05	20.000	1.092	06	50.000	1.066	07	100.000	1.066	08	150.000	1.021
09	200.000	1.011									

1,1,2-Trichloroethane Average RF RSD = 4.1 Average RF = 0.3206

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2925	02	1.000	0.3115	03	2.000	0.3290	04	5.000	0.3141
05	20.000	0.3366	06	50.000	0.3237	07	100.000	0.3245	08	150.000	0.3315
09	200.000	0.3217									

1,1,2-Trichlorotrifluoroethane Average RF RSD = 12.0 Average RF = 0.4440

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5737	02	1.000	0.3937	03	2.000	0.4026	04	5.000	0.4511
05	20.000	0.4508	06	50.000	0.4191	07	100.000	0.4444	08	150.000	0.4143
09	200.000	0.4461									

1,1-Dichloroethane (1,1-DCA) Average RF RSD = 4.0 Average RF = 0.9320

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9159	02	1.000	0.8801	03	2.000	0.9940	04	5.000	0.8971
05	20.000	0.9663	06	50.000	0.9146	07	100.000	0.9546	08	150.000	0.9080
09	200.000	0.9578									

1,1-Dichloroethene (1,1-DCE) Average RF RSD = 4.8 Average RF = 0.3976

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3738	02	1.000	0.3866	03	2.000	0.3743	04	5.000	0.4179
05	20.000	0.4266	06	50.000	0.3952	07	100.000	0.4031	08	150.000	0.3874
09	200.000	0.4136									

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

1,1-Dichloropropene — Average RF — RSD = 3.3 — Average RF = 0.4363

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4246	03	2.000	0.4355	04	5.000	0.4611	05	20.000	0.4523
06	50.000	0.4240	07	100.000	0.4328	08	150.000	0.4211	09	200.000	0.4388

1,2,3-Trichlorobenzene — Average RF — RSD = 6.1 — Average RF = 1.247

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.193	03	2.000	1.181	04	5.000	1.259	05	20.000	1.377
06	50.000	1.315	07	100.000	1.295	08	150.000	1.177	09	200.000	1.180

1,2,3-Trichloropropane — Average RF — RSD = 11.3 — Average RF = 0.3280

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4092	02	1.000	0.2787	03	2.000	0.2995	04	5.000	0.3279
05	20.000	0.3539	06	50.000	0.3235	07	100.000	0.3309	08	150.000	0.3149
09	200.000	0.3129									

1,2,4-Trichlorobenzene — Average RF — RSD = 4.9 — Average RF = 1.213

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.154	03	2.000	1.202	04	5.000	1.225	05	20.000	1.304
06	50.000	1.269	07	100.000	1.248	08	150.000	1.133	09	200.000	1.170

1,2,4-Trimethylbenzene — Average RF — RSD = 7.8 — Average RF = 2.705

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.621	03	2.000	2.836	04	5.000	2.840	05	20.000	3.020
06	50.000	2.757	07	100.000	2.727	08	150.000	2.423	09	200.000	2.413

1,2-Dibromo-3-chloropropane (DBCP) — Quadratic — 1/X — COD = 0.9990 — $Y = 0.03744 X^2 + 0.2035 X + -0.002232$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1395	03	2.000	0.1427	04	5.000	0.1435	05	20.000	0.2045
06	50.000	0.2505	07	100.000	0.2747						

1,2-Dibromoethane — Average RF — RSD = 11.6 — Average RF = 0.3490

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2813	02	1.000	0.3225	03	2.000	0.3121	04	5.000	0.3179
05	20.000	0.3733	06	50.000	0.3817	07	100.000	0.3862	08	150.000	0.3780
09	200.000	0.3879									

1,2-Dichloro-1,1,2-trifluoroethane (CFC — Average RF — RSD = 7.6 — Average RF = 0.5968

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5335	02	1.000	0.5507	03	2.000	0.6239	04	5.000	0.6878
05	20.000	0.5698	06	50.000	0.5818	07	100.000	0.6075	08	150.000	0.6118
09	200.000	0.6043									

1,2-Dichlorobenzene — Average RF — RSD = 5.7 — Average RF = 1.574

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.466	03	2.000	1.639	04	5.000	1.603	05	20.000	1.719
06	50.000	1.584	07	100.000	1.616	08	150.000	1.485	09	200.000	1.481

1,2-Dichloroethane — Average RF — RSD = 6.2 — Average RF = 0.5662

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5174	02	1.000	0.5009	03	2.000	0.6052	04	5.000	0.5928
05	20.000	0.5948	06	50.000	0.5730	07	100.000	0.5816	08	150.000	0.5654
09	200.000	0.5643									

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

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

1,2-Dichloroethane-d4 Average RF RSD = 5.4 Average RF = 0.4125

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4413	05	20.000	0.3804	06	50.000	0.4143	07	100.000	0.4199
08	200.000	0.4068									

1,2-Dichloropropane Average RF RSD = 2.3 Average RF = 0.3929

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4064	02	1.000	0.3820	03	2.000	0.3866	04	5.000	0.4042
05	20.000	0.4014	06	50.000	0.3845	07	100.000	0.3879	08	150.000	0.3889
09	200.000	0.3939									

1,3,5-Trichlorobenzene Average RF RSD = 4.5 Average RF = 1.268

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.220	03	2.000	1.303	04	5.000	1.292	05	20.000	1.326
06	50.000	1.338	07	100.000	1.277	08	150.000	1.194	09	200.000	1.199

1,3,5-Trimethylbenzene Average RF RSD = 8.2 Average RF = 2.615

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.467	03	2.000	2.794	04	5.000	2.796	05	20.000	2.872
06	50.000	2.709	07	100.000	2.621	08	150.000	2.327	09	200.000	2.333

1,3-Dichlorobenzene Average RF RSD = 5.1 Average RF = 1.589

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.590	03	2.000	1.691	04	5.000	1.661	05	20.000	1.661
06	50.000	1.583	07	100.000	1.564	08	150.000	1.457	09	200.000	1.501

1,3-Dichloropropane Average RF RSD = 4.2 Average RF = 0.6250

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6196	03	2.000	0.6317	04	5.000	0.6311	05	20.000	0.6780
06	50.000	0.6262	07	100.000	0.6201	08	150.000	0.5835	09	200.000	0.6093

1,4-Dichlorobenzene Average RF RSD = 5.1 Average RF = 1.612

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.626	03	2.000	1.745	04	5.000	1.586	05	20.000	1.696
06	50.000	1.609	07	100.000	1.613	08	150.000	1.499	09	200.000	1.521

1,4-Dioxane Average RF RSD = 6.4 Average RF = 0.008522

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.008590	04	100.000	0.007729	05	400.000	0.008278	06	1000.000	0.008378
07	2000.000	0.008552	08	3000.000	0.009564	09	4000.000	0.008560			

1-Butanol Quadratic 1/X2 COD = 0.9973 Y = 1.051E-4 X^2 + 0.01546 X + -0.007245

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.008805	03	100.000	0.01119	04	250.000	0.01440	05	1000.000	0.01571
06	2500.000	0.02297	07	5000.000	0.02649	08	7500.000	0.03021			

1-Chloro-4-(trifluoromethyl)benzene Average RF RSD = 6.7 Average RF = 0.5104

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4358	03	2.000	0.5058	04	5.000	0.5138	05	20.000	0.5466
06	50.000	0.5397	07	100.000	0.5256	08	150.000	0.5025	09	200.000	0.5138

2,2-Dichloro-1,1,1-trifluoroethane (CFC Average RF RSD = 6.9 Average RF = 0.6186

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5493	02	1.000	0.5811	03	2.000	0.6847	04	5.000	0.6538
05	20.000	0.5814	06	50.000	0.6053	07	100.000	0.6413	08	150.000	0.6340
09	200.000	0.6367									

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting

2,2-Dichloropropane — Average RF — RSD = 11.1 — Average RF = 0.4900

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4150	03	2.000	0.4388	04	5.000	0.4685	05	20.000	0.4728
06	50.000	0.4811	07	100.000	0.5373	08	150.000	0.5278	09	200.000	0.5782

2,3,6-Trichlorotoluene — Average RF — RSD = 6.4 — Average RF = 0.8566

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.7737	03	2.000	0.8954	04	5.000	0.8552	05	20.000	0.9284
06	50.000	0.9139	07	100.000	0.8649	08	150.000	0.8005	09	200.000	0.8212

2,4,5-Trichlorotoluene — Average RF — RSD = 6.8 — Average RF = 0.9419

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.8436	03	2.000	0.8794	04	5.000	0.9560	05	20.000	1.017
06	50.000	1.027	07	100.000	0.9728	08	150.000	0.9104	09	200.000	0.9294

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut — Average RF — RSD = 7.2 — Average RF = 1.449

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	1.372	02	3.000	1.328	03	6.000	1.464	04	15.000	1.524
05	60.000	1.588	06	150.000	1.579	07	300.000	1.493	08	450.000	1.366
09	600.000	1.325									

2,4-Dichlorobenzotrifluoride — Average RF — RSD = 4.4 — Average RF = 0.7466

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.7051	03	2.000	0.7546	04	5.000	0.7575	05	20.000	0.8009
06	50.000	0.7709	07	100.000	0.7459	08	150.000	0.7034	09	200.000	0.7348

2,5-Dichlorobenzotrifluoride — Average RF — RSD = 5.0 — Average RF = 0.8551

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.8282	03	2.000	0.8844	04	5.000	0.8719	05	20.000	0.9166
06	50.000	0.8891	07	100.000	0.8483	08	150.000	0.8130	09	200.000	0.7893

2-Butanone (MEK) — Average RF — RSD = 5.5 — Average RF = 0.6403

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.6439	05	20.000	0.5890	06	50.000	0.6152	07	100.000	0.6456
08	150.000	0.6901	09	200.000	0.6579						

2-Chloro-1,3-butadiene — Average RF — RSD = 6.0 — Average RF = 1.123

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.039	02	1.000	1.014	03	2.000	1.105	04	5.000	1.208
05	20.000	1.104	06	50.000	1.120	07	100.000	1.194	08	150.000	1.130
09	200.000	1.192									

2-Chlorobenzotrifluoride — Average RF — RSD = 3.4 — Average RF = 0.5946

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6151	03	2.000	0.6242	04	5.000	0.5573	05	20.000	0.5911
06	50.000	0.6025	07	100.000	0.5923	08	150.000	0.5851	09	200.000	0.5895

2-Chloroethyl Vinyl Ether — Average RF — RSD = 8.3 — Average RF = 0.3080

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.2699	03	2.000	0.2744	04	5.000	0.3176	05	20.000	0.2949
06	50.000	0.3120	07	100.000	0.3276	08	150.000	0.3379	09	200.000	0.3299

2-Chlorotoluene — Average RF — RSD = 7.7 — Average RF = 2.167

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.108	03	2.000	2.294	04	5.000	2.263	05	20.000	2.407
06	50.000	2.229	07	100.000	2.151	08	150.000	1.916	09	200.000	1.965

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

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

2-Hexanone Average RF RSD = 5.8 Average RF = 0.7105

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.6733	05	20.000	0.6637	06	50.000	0.7013	07	100.000	0.7106
08	150.000	0.7723	09	200.000	0.7419						

2-Methyl-1-propanol Quadratic 1/X2 COD = 0.9996 Y = 4.502E-4 X² + 0.03341 X + -0.007402

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.02479	04	100.000	0.03005	05	400.000	0.03468	06	1000.000	0.04430
07	2000.000	0.05114	08	3000.000	0.05980						

2-Methyl-2-propanol Quadratic 1/X2 COD = 0.9995 Y = 8.173E-4 X² + 0.09024 X + -0.01730

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.06902	04	100.000	0.08447	05	400.000	0.09065	06	1000.000	0.1107
07	2000.000	0.1200	08	3000.000	0.1395						

2-Nitropropane Quadratic 1/X2 COD = 0.9952 Y = 0.008447 X² + 0.07542 X + -2.852E-4

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	2.000	0.07132	03	4.000	0.07003	04	10.000	0.06767	05	40.000	0.08233
06	100.000	0.09612	07	200.000	0.1152	08	300.000	0.1307	09	400.000	0.1356

2-Propanol Quadratic 1/X2 COD = 0.9998 Y = 7.542E-4 X² + 0.07253 X + -0.006518

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.06436	04	100.000	0.07301	05	400.000	0.07400	06	1000.000	0.09046
07	2000.000	0.1013	08	3000.000	0.1179						

3,4- and 2,3-Dichlorotoluene Coelution Average RF RSD = 8.4 Average RF = 1.622

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	1.559	02	2.000	1.478	03	4.000	1.641	04	10.000	1.739
05	40.000	1.781	06	100.000	1.790	07	200.000	1.683	08	300.000	1.505
09	400.000	1.423									

3,4-Dichlorobenzotrifluoride Average RF RSD = 5.5 Average RF = 0.8293

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.8835	03	2.000	0.8459	04	5.000	0.8575	05	20.000	0.8718
06	50.000	0.8292	07	100.000	0.8170	08	150.000	0.7609	09	200.000	0.7688

3-Chloro-1-propene Average RF RSD = 6.5 Average RF = 0.2277

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2277	02	1.000	0.2029	03	2.000	0.2100	04	5.000	0.2180
05	20.000	0.2408	06	50.000	0.2287	07	100.000	0.2391	08	150.000	0.2348
09	200.000	0.2471									

3-Chlorobenzotrifluoride Average RF RSD = 4.2 Average RF = 0.6000

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6043	03	2.000	0.6355	04	5.000	0.6155	05	20.000	0.6032
06	50.000	0.6197	07	100.000	0.5850	08	150.000	0.5576	09	200.000	0.5789

3-Chlorotoluene Average RF RSD = 8.1 Average RF = 2.282

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.160	03	2.000	2.512	04	5.000	2.388	05	20.000	2.448
06	50.000	2.393	07	100.000	2.271	08	150.000	2.064	09	200.000	2.016

4-Bromofluorobenzene Average RF RSD = 6.3 Average RF = 0.4549

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.4607	05	20.000	0.4093	06	50.000	0.4485	07	100.000	0.4717
08	200.000	0.4845									

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

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

4-Chlorotoluene Average RF RSD = 8.2 Average RF = 2.578

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.536	03	2.000	2.861	04	5.000	2.724	05	20.000	2.787
06	50.000	2.578	07	100.000	2.554	08	150.000	2.288	09	200.000	2.299

4-Isopropyltoluene Average RF RSD = 7.6 Average RF = 2.775

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.713	03	2.000	2.668	04	5.000	2.925	05	20.000	3.119
06	50.000	2.881	07	100.000	2.863	08	150.000	2.521	09	200.000	2.513

4-Methyl-2-pentanone Average RF RSD = 6.5 Average RF = 0.8337

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.7834	04	5.000	0.8042	05	20.000	0.7913	06	50.000	0.8073
07	100.000	0.8587	08	150.000	0.9382	09	200.000	0.8528			

Acetone Average RF RSD = 8.2 Average RF = 0.4508

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.5234	05	20.000	0.4267	06	50.000	0.4434	07	100.000	0.4249
08	150.000	0.4525	09	200.000	0.4341						

Acetonitrile Average RF RSD = 1.8 Average RF = 0.1104

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	10.000	0.1129	04	25.000	0.1087	05	100.000	0.1130	06	250.000	0.1110
07	500.000	0.1090	08	750.000	0.1100	09	1000.000	0.1078			

Acrolein Average RF RSD = 7.1 Average RF = 0.1730

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.1482	03	10.000	0.1640	04	25.000	0.1818	05	100.000	0.1701
06	250.000	0.1764	07	500.000	0.1782	08	750.000	0.1871	09	1000.000	0.1779

Acrylonitrile Average RF RSD = 5.4 Average RF = 0.4218

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.4092	02	5.000	0.3718	03	10.000	0.4104	04	25.000	0.4340
05	100.000	0.4415	06	250.000	0.4443	07	500.000	0.4346	08	750.000	0.4333
09	1000.000	0.4170									

Benzene Average RF RSD = 5.6 Average RF = 1.333

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.285	02	1.000	1.237	03	2.000	1.412	04	5.000	1.442
05	20.000	1.426	06	50.000	1.310	07	100.000	1.315	08	150.000	1.271
09	200.000	1.297									

Bromobenzene Average RF RSD = 7.3 Average RF = 0.8385

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.8921	03	2.000	0.8168	04	5.000	0.8723	05	20.000	0.9392
06	50.000	0.8371	07	100.000	0.8201	08	150.000	0.7514	09	200.000	0.7793

Bromochloromethane Average RF RSD = 3.8 Average RF = 0.3397

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3586	03	2.000	0.3131	04	5.000	0.3389	05	20.000	0.3453
06	50.000	0.3337	07	100.000	0.3448	08	150.000	0.3380	09	200.000	0.3451

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

Analyte	Curve Fit	Weighting			
Bromodichloromethane	Average RF		RSD = 10.2	Average RF = 0.3922	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3711	02	1.000	0.3196	03	2.000	0.3557	04	5.000	0.3746
05	20.000	0.4033	06	50.000	0.4042	07	100.000	0.4317	08	150.000	0.4326
09	200.000	0.4375									

Bromoform	Quadratic	1/X2	COD = 0.9969	$Y = 0.03156 X^2 + 0.2235 X + -9.933E-4$	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1814	03	2.000	0.1920	04	5.000	0.1992	05	20.000	0.2372
06	50.000	0.2623	07	100.000	0.2989	08	150.000	0.3264	09	200.000	0.3347

Bromomethane	Quadratic	1/X	COD = 0.9921	$Y = -0.07118 X^2 + 0.4009 X + 0.001103$	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3910	02	1.000	0.4613	03	2.000	0.4698	04	5.000	0.4685
05	20.000	0.4071	06	50.000	0.2969	07	100.000	0.2661			

Carbon Disulfide	Average RF		RSD = 5.3	Average RF = 1.165	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.085	02	1.000	1.107	03	2.000	1.109	04	5.000	1.165
05	20.000	1.156	06	50.000	1.157	07	100.000	1.255	08	150.000	1.197
09	200.000	1.255									

Carbon Tetrachloride	Average RF		RSD = 13.4	Average RF = 0.1137	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.09089	02	1.000	0.09970	03	2.000	0.1180	04	5.000	0.1047
05	20.000	0.1030	06	50.000	0.1156	07	100.000	0.1268	08	150.000	0.1268
09	200.000	0.1375									

Chlorobenzene	Average RF		RSD = 5.9	Average RF = 1.054	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.132	02	1.000	1.126	03	2.000	1.092	04	5.000	1.071
05	20.000	1.083	06	50.000	1.016	07	100.000	1.022	08	150.000	0.9500
09	200.000	0.9941									

Chloroethane	Average RF		RSD = 6.6	Average RF = 0.4156	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4480	02	1.000	0.3769	03	2.000	0.3702	04	5.000	0.4403
05	20.000	0.4375	06	50.000	0.4164	07	100.000	0.4181	08	150.000	0.4045
09	200.000	0.4281									

Chloroform	Average RF		RSD = 3.7	Average RF = 0.8370	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8032	02	1.000	0.8567	03	2.000	0.8491	04	5.000	0.8154
05	20.000	0.9021	06	50.000	0.8210	07	100.000	0.8433	08	150.000	0.8034
09	200.000	0.8392									

Chloromethane	Average RF		RSD = 3.6	Average RF = 1.205	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.187	02	1.000	1.166	03	2.000	1.255	04	5.000	1.165
05	20.000	1.269	06	50.000	1.215	07	100.000	1.247	08	150.000	1.188
09	200.000	1.149									

Cyclohexane	Average RF		RSD = 3.6	Average RF = 0.5312	

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.5430	03	2.000	0.5026	04	5.000	0.5649	05	20.000	0.5183
06	50.000	0.5187	07	100.000	0.5315	08	150.000	0.5407	09	200.000	0.5295

Initial Calibration - Detailed Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Signal ID: 1

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

Cyclohexanone Average RF RSD = 9.3 Average RF = 0.1155

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.09679	03	40.000	0.1137	04	100.000	0.1246	05	400.000	0.1250
06	1000.000	0.1265	07	2000.000	0.1193	08	3000.000	0.1141	09	4000.000	0.1037

Dibromochloromethane Quadratic 1/X2 COD = 0.9975 Y = 0.02835 X² + 0.3181 X + -2.404E-4

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3158	02	1.000	0.2769	03	2.000	0.2921	04	5.000	0.2964
05	20.000	0.3555	06	50.000	0.3684	07	100.000	0.3991	08	150.000	0.3954
09	200.000	0.4178									

Dibromofluoromethane Average RF RSD = 6.1 Average RF = 0.3067

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	0.3231	05	20.000	0.2756	06	50.000	0.3085	07	100.000	0.3199
08	200.000	0.3066									

Dibromomethane Average RF RSD = 9.8 Average RF = 0.2139

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1976	02	1.000	0.2163	03	2.000	0.1666	04	5.000	0.2099
05	20.000	0.2380	06	50.000	0.2212	07	100.000	0.2249	08	150.000	0.2231
09	200.000	0.2278									

Dichlorodifluoromethane (CFC 12) Average RF RSD = 6.8 Average RF = 0.7191

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6413	02	1.000	0.6959	03	2.000	0.6700	04	5.000	0.6818
05	20.000	0.7813	06	50.000	0.7457	07	100.000	0.7762	08	150.000	0.7338
09	200.000	0.7459									

Dichlorofluoromethane (CFC 21) Average RF RSD = 7.4 Average RF = 0.9644

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8589	02	1.000	0.8721	03	2.000	0.9493	04	5.000	1.082
05	20.000	0.9332	06	50.000	0.9658	07	100.000	1.006	08	150.000	1.023
09	200.000	0.9896									

Dichloromethane Average RF RSD = 14.8 Average RF = 0.5197

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7106	02	1.000	0.4538	03	2.000	0.5495	04	5.000	0.5205
05	20.000	0.5037	06	50.000	0.4810	07	100.000	0.4893	08	150.000	0.4729
09	200.000	0.4963									

Diethyl Ether Average RF RSD = 5.7 Average RF = 0.5802

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6294	03	2.000	0.5167	04	5.000	0.5684	05	20.000	0.6089
06	50.000	0.5854	07	100.000	0.5872	08	150.000	0.5711	09	200.000	0.5747

Diisopropyl Ether Average RF RSD = 3.5 Average RF = 2.681

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.563	03	2.000	2.715	04	5.000	2.829	05	20.000	2.593
06	50.000	2.596	07	100.000	2.768	08	150.000	2.708	09	200.000	2.678

Ethyl Methacrylate Quadratic 1/X2 COD = 0.9969 Y = 0.06218 X² + 0.4391 X + -1.633E-4

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4711	02	1.000	0.3460	03	2.000	0.4103	04	5.000	0.4538
05	20.000	0.4919	06	50.000	0.5397	07	100.000	0.5772	08	150.000	0.6001

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

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

Ethyl tert-Butyl Ether Average RF RSD = 9.5 Average RF = 1.738

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.436	03	2.000	1.716	04	5.000	1.713	05	20.000	1.611
06	50.000	1.725	07	100.000	1.871	08	150.000	1.900	09	200.000	1.933

Ethylbenzene Average RF RSD = 11.3 Average RF = 0.5326

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3822	02	1.000	0.5691	03	2.000	0.5555	04	5.000	0.5672
05	20.000	0.5768	06	50.000	0.5368	07	100.000	0.5507	08	150.000	0.5074
09	200.000	0.5476									

Hexachlorobutadiene Average RF RSD = 9.1 Average RF = 0.5329

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5927	02	1.000	0.4374	03	2.000	0.5826	04	5.000	0.5606
05	20.000	0.5562	06	50.000	0.5189	07	100.000	0.5413	08	150.000	0.4953
09	200.000	0.5114									

Iodomethane Quadratic 1/X2 COD = 0.9954 $Y = 0.02403 X^2 + 0.6731 X + -0.05096$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.1762	05	20.000	0.4940	06	50.000	0.6816	07	100.000	0.7501
08	150.000	0.6934	09	200.000	0.7523						

Isopropylbenzene (Cumene) Average RF RSD = 6.2 Average RF = 1.763

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	1.695	03	2.000	1.840	04	5.000	1.864	05	20.000	1.918
06	50.000	1.765	07	100.000	1.776	08	150.000	1.615	09	200.000	1.632

Methacrylonitrile Average RF RSD = 7.6 Average RF = 0.3097

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3038	03	2.000	0.2549	04	5.000	0.3310	05	20.000	0.3153
06	50.000	0.3162	07	100.000	0.3139	08	150.000	0.3255	09	200.000	0.3172

Methyl Acetate Average RF RSD = 4.2 Average RF = 0.9241

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.8891	04	5.000	0.9191	05	20.000	0.8635	06	50.000	0.9333
07	100.000	0.9399	08	150.000	0.9847	09	200.000	0.9392			

Methyl Methacrylate Average RF RSD = 10.0 Average RF = 0.3085

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3289	02	1.000	0.2640	03	2.000	0.2636	04	5.000	0.2831
05	20.000	0.3119	06	50.000	0.3133	07	100.000	0.3327	08	150.000	0.3431
09	200.000	0.3364									

Methyl tert-Butyl Ether Average RF RSD = 5.2 Average RF = 1.623

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.563	02	1.000	1.425	03	2.000	1.643	04	5.000	1.611
05	20.000	1.690	06	50.000	1.654	07	100.000	1.683	08	150.000	1.660
09	200.000	1.681									

Methylcyclohexane Average RF RSD = 2.9 Average RF = 0.5964

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6105	03	2.000	0.5639	04	5.000	0.6078	05	20.000	0.5893
06	50.000	0.5777	07	100.000	0.6089	08	150.000	0.6085	09	200.000	0.6045

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

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

Naphthalene Average RF RSD = 9.7 Average RF = 3.639

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	3.431	03	2.000	3.540	04	5.000	3.875	05	20.000	4.068
06	50.000	4.032	07	100.000	3.769	08	150.000	3.307	09	200.000	3.086

Propionitrile Average RF RSD = 8.6 Average RF = 0.1710

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1448	02	5.000	0.1604	03	10.000	0.1554	04	25.000	0.1760
05	100.000	0.1711	06	250.000	0.1807	07	500.000	0.1775	08	750.000	0.1911
09	1000.000	0.1817									

Styrene Average RF RSD = 3.1 Average RF = 1.163

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.167	02	1.000	1.112	03	2.000	1.190	04	5.000	1.174
05	20.000	1.226	06	50.000	1.165	07	100.000	1.179	08	150.000	1.114
09	200.000	1.141									

Tetrachloroethene (PCE) Average RF RSD = 5.8 Average RF = 0.3091

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3390	02	1.000	0.3212	03	2.000	0.3104	04	5.000	0.3033
05	20.000	0.3280	06	50.000	0.2954	07	100.000	0.3012	08	150.000	0.2800
09	200.000	0.3036									

Tetrahydrofuran (THF) Average RF RSD = 4.3 Average RF = 0.4155

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03	2.000	0.3967	04	5.000	0.3970	05	20.000	0.4002	06	50.000	0.4290
07	100.000	0.4362	08	150.000	0.4342	09	200.000	0.4155			

Toluene Average RF RSD = 6.7 Average RF = 1.369

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.187	02	1.000	1.319	03	2.000	1.496	04	5.000	1.414
05	20.000	1.468	06	50.000	1.375	07	100.000	1.404	08	150.000	1.329
09	200.000	1.328									

Toluene-d8 Average RF RSD = 6.3 Average RF = 1.139

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	10.000	1.241	05	20.000	1.049	06	50.000	1.160	07	100.000	1.146
08	200.000	1.101									

Trichloroethene (TCE) Average RF RSD = 6.8 Average RF = 0.3427

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3325	02	1.000	0.3019	03	2.000	0.3139	04	5.000	0.3734
05	20.000	0.3653	06	50.000	0.3494	07	100.000	0.3526	08	150.000	0.3398
09	200.000	0.3555									

Trichlorofluoromethane (CFC 11) Average RF RSD = 4.6 Average RF = 0.7168

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6921	02	1.000	0.6688	03	2.000	0.7014	04	5.000	0.6966
05	20.000	0.7686	06	50.000	0.7322	07	100.000	0.7530	08	150.000	0.6983
09	200.000	0.7402									

Vinyl Acetate Quadratic 1/X2 COD = 0.9989 $Y = 0.006529 X^2 + 0.1015 X + -9.218E-4$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.05592	03	2.000	0.07657	04	5.000	0.09715	05	20.000	0.09756
06	50.000	0.1049	07	100.000	0.1194	08	150.000	0.1219	09	200.000	0.1247

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

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

Vinyl Chloride Average RF RSD = 4.7 Average RF = 0.8349

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7526	02	1.000	0.8531	03	2.000	0.8375	04	5.000	0.8218
05	20.000	0.9010	06	50.000	0.8323	07	100.000	0.8586	08	150.000	0.8220
09	200.000	0.8355									

cis-1,2-Dichloroethene Average RF RSD = 4.3 Average RF = 0.5060

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5443	02	1.000	0.5333	03	2.000	0.4948	04	5.000	0.5028
05	20.000	0.5137	06	50.000	0.4834	07	100.000	0.4998	08	150.000	0.4765
09	200.000	0.5058									

cis-1,3-Dichloropropene Average RF RSD = 15.0 Average RF = 0.4736

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3590	02	1.000	0.3928	03	2.000	0.4151	04	5.000	0.4490
05	20.000	0.5065	06	50.000	0.5147	07	100.000	0.5394	08	150.000	0.5392
09	200.000	0.5463									

m,p-Xylenes Average RF RSD = 6.3 Average RF = 0.6810

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.7609	02	2.000	0.6556	03	4.000	0.6758	04	10.000	0.6910
05	40.000	0.7296	06	100.000	0.6760	07	200.000	0.6742	08	300.000	0.6174
09	400.000	0.6481									

n-Butyl Acetate Quadratic 1/X COD = 0.9979 $Y = 0.01716 X^2 + 1.227 X + -0.01376$

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.7456	03	2.000	0.9010	04	5.000	0.9525	05	20.000	1.099
06	50.000	1.198	07	100.000	1.285	08	150.000	1.326	09	200.000	1.258

n-Butylbenzene Average RF RSD = 6.2 Average RF = 2.584

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.497	03	2.000	2.544	04	5.000	2.660	05	20.000	2.873
06	50.000	2.642	07	100.000	2.672	08	150.000	2.405	09	200.000	2.382

n-Heptane Average RF RSD = 3.8 Average RF = 0.7115

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.7139	03	2.000	0.7337	04	5.000	0.7212	05	20.000	0.7557
06	50.000	0.6923	07	100.000	0.7116	08	150.000	0.6687	09	200.000	0.6945

n-Propylbenzene Average RF RSD = 12.3 Average RF = 3.741

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	3.696	03	2.000	4.139	04	5.000	4.136	05	20.000	4.276
06	50.000	3.850	07	100.000	3.665	08	150.000	3.107	09	200.000	3.056

o-Xylene Average RF RSD = 6.0 Average RF = 0.6755

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6089	02	1.000	0.6212	03	2.000	0.7089	04	5.000	0.6857
05	20.000	0.7333	06	50.000	0.6805	07	100.000	0.6964	08	150.000	0.6529
09	200.000	0.6916									

sec-Butylbenzene Average RF RSD = 10.0 Average RF = 3.415

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	3.397	03	2.000	3.725	04	5.000	3.597	05	20.000	3.843
06	50.000	3.508	07	100.000	3.410	08	150.000	2.953	09	200.000	2.887

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte	Curve Fit	Weighting									
tert-Amyl Methyl Ether	Average RF			RSD = 9.6		Average RF = 0.9624					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.8542	03	2.000	0.8434	04	5.000	0.9383	05	20.000	0.9098
06	50.000	0.9641	07	100.000	1.062	08	150.000	1.068	09	200.000	1.059
tert-Butylbenzene	Average RF			RSD = 9.2		Average RF = 2.382					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	2.108	03	2.000	2.541	04	5.000	2.601	05	20.000	2.653
06	50.000	2.442	07	100.000	2.409	08	150.000	2.135	09	200.000	2.169
trans-1,2-Dichloroethene	Average RF			RSD = 4.4		Average RF = 0.4501					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4820	02	1.000	0.4257	03	2.000	0.4520	04	5.000	0.4575
05	20.000	0.4725	06	50.000	0.4322	07	100.000	0.4528	08	150.000	0.4237
09	200.000	0.4527									
trans-1,3-Dichloropropene	Quadratic	1/X2		COD = 0.9956		$Y = 0.04411 X^2 + 0.3639 X + -4.057E-4$					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3438	02	1.000	0.3279	03	2.000	0.3132	04	5.000	0.3427
05	20.000	0.4015	06	50.000	0.4413	07	100.000	0.4782	08	150.000	0.5040
09	200.000	0.5116									
trans-1,4-Dichloro-2-butene	Quadratic	1/X2		COD = 0.9974		$Y = 0.01800 X^2 + 0.1849 X + -3.081E-4$					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1635	02	1.000	0.1582	03	2.000	0.1681	04	5.000	0.1692
05	20.000	0.2115	06	50.000	0.2085	07	100.000	0.2247	08	150.000	0.2464
09	200.000	0.2463									

Initial Calibration - Detailed Report

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Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.2	02	1.000	0.96	-4.5	03	2.000	1.92	-4.1
04	5.000	5.00	-0.1	05	20.000	19.99	-0.1	06	50.000	52.52	5.0
07	100.000	103.41	3.4	08	150.000	146.42	-2.4	09	200.000	198.55	-0.7

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.4	02	1.000	0.81	-19.4	03	2.000	1.84	-8.2
04	5.000	5.04	0.8	05	20.000	20.81	4.0	06	50.000	50.87	1.7
07	100.000	107.18	7.2	08	150.000	155.36	3.6	09	200.000	223.71	11.9

1,1,2,2-Tetrachloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.5	02	1.000	0.80	-19.5	03	2.000	1.85	-7.7
04	5.000	5.35	7.0	05	20.000	21.60	8.0	06	50.000	52.69	5.4
07	100.000	105.36	5.4	08	150.000	151.47	1.0	09	200.000	199.83	-0.1

1,1,2-Trichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.7	02	1.000	0.97	-2.8	03	2.000	2.05	2.6
04	5.000	4.90	-2.0	05	20.000	21.00	5.0	06	50.000	50.49	1.0
07	100.000	101.21	1.2	08	150.000	155.10	3.4	09	200.000	200.72	0.4

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.65	29.2	02	1.000	0.89	-11.3	03	2.000	1.81	-9.3
04	5.000	5.08	1.6	05	20.000	20.31	1.5	06	50.000	47.19	-5.6
07	100.000	100.10	0.1	08	150.000	139.97	-6.7	09	200.000	200.94	0.5

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.7	02	1.000	0.94	-5.6	03	2.000	2.13	6.7
04	5.000	4.81	-3.7	05	20.000	20.73	3.7	06	50.000	49.07	-1.9
07	100.000	102.42	2.4	08	150.000	146.13	-2.6	09	200.000	205.53	2.8

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.0	02	1.000	0.97	-2.8	03	2.000	1.88	-5.9
04	5.000	5.26	5.1	05	20.000	21.46	7.3	06	50.000	49.69	-0.6
07	100.000	101.37	1.4	08	150.000	146.14	-2.6	09	200.000	208.07	4.0

1,1-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-2.7	03	2.000	2.00	-0.2	04	5.000	5.28	5.7
05	20.000	20.73	3.7	06	50.000	48.60	-2.8	07	100.000	99.21	-0.8
08	150.000	144.77	-3.5	09	200.000	201.15	0.6				

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-4.3	03	2.000	1.89	-5.3	04	5.000	5.05	0.9
05	20.000	22.08	10.4	06	50.000	52.71	5.4	07	100.000	103.87	3.9
08	150.000	141.55	-5.6	09	200.000	189.24	-5.4				

1,2,3-Trichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.62	24.8	02	1.000	0.85	-15.0	03	2.000	1.83	-8.7
04	5.000	5.00	0.0	05	20.000	21.58	7.9	06	50.000	49.33	-1.3
07	100.000	100.89	0.9	08	150.000	144.05	-4.0	09	200.000	190.80	-4.6

1,2,4-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.95	-4.9	03	2.000	1.98	-0.9	04	5.000	5.05	1.0
05	20.000	21.50	7.5	06	50.000	52.31	4.6	07	100.000	102.85	2.9
08	150.000	140.11	-6.6	09	200.000	192.82	-3.6				

1,2,4-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-3.1	03	2.000	2.10	4.8	04	5.000	5.25	5.0
05	20.000	22.33	11.7	06	50.000	50.97	1.9	07	100.000	100.84	0.8
08	150.000	134.36	-10.4	09	200.000	178.44	-10.8				

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.23	22.9	03	2.000	1.94	-3.1	04	5.000	4.02	-19.7
05	20.000	19.28	-3.6	06	50.000	52.12	4.2	07	100.000	99.28	-0.7

1,2-Dibromoethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-19.4	02	1.000	0.92	-7.6	03	2.000	1.79	-10.6
04	5.000	4.55	-8.9	05	20.000	21.39	7.0	06	50.000	54.69	9.4
07	100.000	110.65	10.7	08	150.000	162.47	8.3	09	200.000	222.33	11.2

1,2-Dichloro-1,1,2-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.6	02	1.000	0.92	-7.7	03	2.000	2.09	4.5
04	5.000	5.76	15.3	05	20.000	19.10	-4.5	06	50.000	48.74	-2.5
07	100.000	101.79	1.8	08	150.000	153.78	2.5	09	200.000	202.52	1.3

1,2-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.93	-6.8	03	2.000	2.08	4.1	04	5.000	5.09	1.9
05	20.000	21.84	9.2	06	50.000	50.30	0.6	07	100.000	102.67	2.7
08	150.000	141.52	-5.7	09	200.000	188.13	-5.9				

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-8.6	02	1.000	0.88	-11.5	03	2.000	2.14	6.9
04	5.000	5.24	4.7	05	20.000	21.01	5.1	06	50.000	50.60	1.2
07	100.000	102.73	2.7	08	150.000	149.80	-0.1	09	200.000	199.35	-0.3

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.70	7.0	05	20.000	18.44	-7.8	06	50.000	50.22	0.4
07	100.000	101.79	1.8	08	200.000	197.23	-1.4				

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.4	02	1.000	0.97	-2.8	03	2.000	1.97	-1.6
04	5.000	5.14	2.9	05	20.000	20.43	2.2	06	50.000	48.94	-2.1
07	100.000	98.74	-1.3	08	150.000	148.50	-1.0	09	200.000	200.52	0.3

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-3.8	03	2.000	2.05	2.7	04	5.000	5.09	1.8
05	20.000	20.91	4.5	06	50.000	52.74	5.5	07	100.000	100.64	0.6
08	150.000	141.25	-5.8	09	200.000	189.00	-5.5				

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-5.6	03	2.000	2.14	6.8	04	5.000	5.35	6.9
05	20.000	21.97	9.8	06	50.000	51.79	3.6	07	100.000	100.23	0.2
08	150.000	133.48	-11.0	09	200.000	178.46	-10.8				

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.00	0.1	03	2.000	2.13	6.5	04	5.000	5.23	4.6
05	20.000	20.91	4.5	06	50.000	49.82	-0.4	07	100.000	98.44	-1.6
08	150.000	137.56	-8.3	09	200.000	189.04	-5.5				

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-0.9	03	2.000	2.02	1.1	04	5.000	5.05	1.0
05	20.000	21.70	8.5	06	50.000	50.10	0.2	07	100.000	99.23	-0.8
08	150.000	140.04	-6.6	09	200.000	195.00	-2.5				

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.01	0.9	03	2.000	2.16	8.2	04	5.000	4.92	-1.6
05	20.000	21.05	5.2	06	50.000	49.91	-0.2	07	100.000	100.08	0.1
08	150.000	139.52	-7.0	09	200.000	188.68	-5.7				

Initial Calibration - Detailed Report

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Analyte

1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	40.32	0.8	04	100.000	90.70	-9.3	05	400.000	388.55	-2.9
06	1000.000	983.18	-1.7	07	2000.000	2,007.23	0.4	08	3000.000	3,367.05	12.2
09	4000.000	4,017.96	0.4								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	51.54	3.1	03	100.000	94.59	-5.4	04	250.000	247.96	-0.8
05	1000.000	923.43	-7.7	06	2500.000	2,726.35	9.1	07	5000.000	5,079.68	1.6
08	7500.000	7,343.18	-2.1								

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.85	-14.6	03	2.000	1.98	-0.9	04	5.000	5.03	0.7
05	20.000	21.42	7.1	06	50.000	52.87	5.7	07	100.000	102.97	3.0
08	150.000	147.66	-1.6	09	200.000	201.30	0.6				

2,2-Dichloro-1,1,1-trifluoroethane (CFC

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.2	02	1.000	0.94	-6.1	03	2.000	2.21	10.7
04	5.000	5.28	5.7	05	20.000	18.80	-6.0	06	50.000	48.93	-2.1
07	100.000	103.67	3.7	08	150.000	153.73	2.5	09	200.000	205.86	2.9

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.85	-15.3	03	2.000	1.79	-10.4	04	5.000	4.78	-4.4
05	20.000	19.30	-3.5	06	50.000	49.10	-1.8	07	100.000	109.66	9.7
08	150.000	161.59	7.7	09	200.000	236.03	18.0				

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.90	-9.7	03	2.000	2.09	4.5	04	5.000	4.99	-0.2
05	20.000	21.68	8.4	06	50.000	53.34	6.7	07	100.000	100.96	1.0
08	150.000	140.17	-6.6	09	200.000	191.74	-4.1				

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.90	-10.4	03	2.000	1.87	-6.6	04	5.000	5.07	1.5
05	20.000	21.60	8.0	06	50.000	54.49	9.0	07	100.000	103.28	3.3
08	150.000	144.98	-3.3	09	200.000	197.34	-1.3				

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.42	-5.3	02	3.000	2.75	-8.3	03	6.000	6.06	1.1
04	15.000	15.78	5.2	05	60.000	65.76	9.6	06	150.000	163.51	9.0
07	300.000	309.12	3.0	08	450.000	424.25	-5.7	09	600.000	548.58	-8.6

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Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-5.6	03	2.000	2.02	1.1	04	5.000	5.07	1.5
05	20.000	21.45	7.3	06	50.000	51.62	3.2	07	100.000	99.90	-0.1
08	150.000	141.32	-5.8	09	200.000	196.84	-1.6				

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-3.1	03	2.000	2.07	3.4	04	5.000	5.10	2.0
05	20.000	21.44	7.2	06	50.000	51.99	4.0	07	100.000	99.20	-0.8
08	150.000	142.62	-4.9	09	200.000	184.61	-7.7				

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	5.03	0.6	05	20.000	18.40	-8.0	06	50.000	48.04	-3.9
07	100.000	100.83	0.8	08	150.000	161.67	7.8	09	200.000	205.51	2.8

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.5	02	1.000	0.90	-9.7	03	2.000	1.97	-1.6
04	5.000	5.38	7.6	05	20.000	19.67	-1.7	06	50.000	49.85	-0.3
07	100.000	106.35	6.3	08	150.000	150.93	0.6	09	200.000	212.28	6.1

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.03	3.4	03	2.000	2.10	5.0	04	5.000	4.69	-6.3
05	20.000	19.88	-0.6	06	50.000	50.66	1.3	07	100.000	99.61	-0.4
08	150.000	147.60	-1.6	09	200.000	198.28	-0.9				

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.88	-12.4	03	2.000	1.78	-10.9	04	5.000	5.16	3.1
05	20.000	19.15	-4.3	06	50.000	50.65	1.3	07	100.000	106.36	6.4
08	150.000	164.54	9.7	09	200.000	214.20	7.1				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-2.7	03	2.000	2.12	5.9	04	5.000	5.22	4.4
05	20.000	22.22	11.1	06	50.000	51.44	2.9	07	100.000	99.29	-0.7
08	150.000	132.64	-11.6	09	200.000	181.40	-9.3				

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	4.74	-5.2	05	20.000	18.68	-6.6	06	50.000	49.35	-1.3
07	100.000	100.02	0.0	08	150.000	163.04	8.7	09	200.000	208.83	4.4

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Analyte

2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	40.33	0.8	04	100.000	98.42	-1.6	05	400.000	386.16	-3.5
06	1000.000	1,043.56	4.4	07	2000.000	1,997.39	-0.1	08	3000.000	2,983.15	-0.6

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	39.89	-0.3	04	100.000	101.32	1.3	05	400.000	384.58	-3.9
06	1000.000	1,040.31	4.0	07	2000.000	1,968.17	-1.6	08	3000.000	3,007.60	0.3

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	2.07	3.5	03	4.000	3.87	-3.3	04	10.000	8.98	-10.2
05	40.000	40.23	0.6	06	100.000	103.59	3.6	07	200.000	208.38	4.2
08	300.000	307.88	2.6	09	400.000	385.86	-3.5				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	39.66	-0.8	04	100.000	102.95	3.0	05	400.000	382.20	-4.4
06	1000.000	1,030.78	3.1	07	2000.000	1,981.59	-0.9	08	3000.000	3,003.49	0.1

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	0.96	-3.9	02	2.000	1.82	-8.9	03	4.000	4.05	1.2
04	10.000	10.72	7.2	05	40.000	43.91	9.8	06	100.000	110.38	10.4
07	200.000	207.48	3.7	08	300.000	278.35	-7.2	09	400.000	350.84	-12.3

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.07	6.5	03	2.000	2.04	2.0	04	5.000	5.17	3.4
05	20.000	21.02	5.1	06	50.000	49.99	0.0	07	100.000	98.51	-1.5
08	150.000	137.62	-8.3	09	200.000	185.40	-7.3				

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.0	02	1.000	0.89	-10.9	03	2.000	1.84	-7.8
04	5.000	4.79	-4.3	05	20.000	21.16	5.8	06	50.000	50.22	0.4
07	100.000	105.01	5.0	08	150.000	154.71	3.1	09	200.000	217.05	8.5

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.01	0.7	03	2.000	2.12	5.9	04	5.000	5.13	2.6
05	20.000	20.11	0.5	06	50.000	51.64	3.3	07	100.000	97.50	-2.5
08	150.000	139.42	-7.1	09	200.000	192.99	-3.5				

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.95	-5.3	03	2.000	2.20	10.1	04	5.000	5.23	4.7
05	20.000	21.46	7.3	06	50.000	52.45	4.9	07	100.000	99.53	-0.5
08	150.000	135.70	-9.5	09	200.000	176.73	-11.6				

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.13	1.3	05	20.000	17.99	-10.0	06	50.000	49.29	-1.4
07	100.000	103.69	3.7	08	200.000	212.99	6.5				

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.98	-1.6	03	2.000	2.22	11.0	04	5.000	5.28	5.6
05	20.000	21.62	8.1	06	50.000	49.99	0.0	07	100.000	99.04	-1.0
08	150.000	133.10	-11.3	09	200.000	178.37	-10.8				

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.98	-2.3	03	2.000	1.92	-3.9	04	5.000	5.27	5.4
05	20.000	22.48	12.4	06	50.000	51.89	3.8	07	100.000	103.16	3.2
08	150.000	136.25	-9.2	09	200.000	181.09	-9.5				

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.88	-6.0	04	5.000	4.82	-3.5	05	20.000	18.98	-5.1
06	50.000	48.41	-3.2	07	100.000	103.00	3.0	08	150.000	168.81	12.5
09	200.000	204.58	2.3								

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	5.81	16.1	05	20.000	18.93	-5.4	06	50.000	49.18	-1.6
07	100.000	94.25	-5.7	08	150.000	150.55	0.4	09	200.000	192.56	-3.7

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.23	2.3	04	25.000	24.63	-1.5	05	100.000	102.40	2.4
06	250.000	251.53	0.6	07	500.000	493.95	-1.2	08	750.000	747.87	-0.3
09	1000.000	976.81	-2.3								

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	4.28	-14.3	03	10.000	9.48	-5.2	04	25.000	26.27	5.1
05	100.000	98.37	-1.6	06	250.000	254.99	2.0	07	500.000	515.19	3.0
08	750.000	811.29	8.2	09	1000.000	1,028.34	2.8				

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	2.43	-3.0	02	5.000	4.41	-11.9	03	10.000	9.73	-2.7
04	25.000	25.72	2.9	05	100.000	104.67	4.7	06	250.000	263.37	5.3
07	500.000	515.23	3.0	08	750.000	770.39	2.7	09	1000.000	988.74	-1.1

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.6	02	1.000	0.93	-7.2	03	2.000	2.12	6.0
04	5.000	5.41	8.2	05	20.000	21.40	7.0	06	50.000	49.13	-1.7
07	100.000	98.68	-1.3	08	150.000	143.07	-4.6	09	200.000	194.65	-2.7

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.06	6.4	03	2.000	1.95	-2.6	04	5.000	5.20	4.0
05	20.000	22.40	12.0	06	50.000	49.92	-0.2	07	100.000	97.80	-2.2
08	150.000	134.41	-10.4	09	200.000	185.87	-7.1				

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.06	5.6	03	2.000	1.84	-7.8	04	5.000	4.99	-0.2
05	20.000	20.33	1.7	06	50.000	49.12	-1.8	07	100.000	101.50	1.5
08	150.000	149.27	-0.5	09	200.000	203.18	1.6				

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.4	02	1.000	0.81	-18.5	03	2.000	1.81	-9.3
04	5.000	4.77	-4.5	05	20.000	20.56	2.8	06	50.000	51.53	3.1
07	100.000	110.06	10.1	08	150.000	165.44	10.3	09	200.000	223.05	11.5

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.03	3.1	03	2.000	1.93	-3.5	04	5.000	4.62	-7.6
05	20.000	20.29	1.4	06	50.000	51.44	2.9	07	100.000	103.63	3.6
08	150.000	153.09	2.1	09	200.000	193.75	-3.1				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.35	-29.9	02	1.000	1.02	1.7	03	2.000	2.22	11.2
04	5.000	5.83	16.5	05	20.000	21.87	9.4	06	50.000	43.67	-12.7
07	100.000	106.57	6.6								

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.9	02	1.000	0.95	-4.9	03	2.000	1.90	-4.8
04	5.000	5.00	0.0	05	20.000	19.84	-0.8	06	50.000	49.65	-0.7
07	100.000	107.68	7.7	08	150.000	154.14	2.8	09	200.000	215.36	7.7

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
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Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.40	-20.0	02	1.000	0.88	-12.3	03	2.000	2.08	3.8
04	5.000	4.61	-7.9	05	20.000	18.12	-9.4	06	50.000	50.87	1.7
07	100.000	111.52	11.5	08	150.000	167.33	11.6	09	200.000	241.93	21.0

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.4	02	1.000	1.07	6.9	03	2.000	2.07	3.6
04	5.000	5.08	1.6	05	20.000	20.54	2.7	06	50.000	48.19	-3.6
07	100.000	96.95	-3.1	08	150.000	135.21	-9.9	09	200.000	188.65	-5.7

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.8	02	1.000	0.91	-9.3	03	2.000	1.78	-10.9
04	5.000	5.30	5.9	05	20.000	21.06	5.3	06	50.000	50.11	0.2
07	100.000	100.61	0.6	08	150.000	146.01	-2.7	09	200.000	206.02	3.0

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.0	02	1.000	1.02	2.3	03	2.000	2.03	1.4
04	5.000	4.87	-2.6	05	20.000	21.55	7.8	06	50.000	49.04	-1.9
07	100.000	100.75	0.7	08	150.000	143.97	-4.0	09	200.000	200.53	0.3

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.4	02	1.000	0.97	-3.2	03	2.000	2.08	4.2
04	5.000	4.84	-3.3	05	20.000	21.06	5.3	06	50.000	50.42	0.8
07	100.000	103.55	3.5	08	150.000	147.95	-1.4	09	200.000	190.82	-4.6

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	2.2	03	2.000	1.89	-5.4	04	5.000	5.32	6.3
05	20.000	19.52	-2.4	06	50.000	48.83	-2.3	07	100.000	100.07	0.1
08	150.000	152.70	1.8	09	200.000	199.38	-0.3				

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	16.76	-16.2	03	40.000	39.40	-1.5	04	100.000	107.93	7.9
05	400.000	432.91	8.2	06	1000.000	1,095.62	9.6	07	2000.000	2,066.85	3.3
08	3000.000	2,964.43	-1.2	09	4000.000	3,593.11	-10.2				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.7	02	1.000	0.91	-9.3	03	2.000	1.87	-6.6
04	5.000	4.66	-6.9	05	20.000	21.56	7.8	06	50.000	52.94	5.9
07	100.000	105.61	5.6	08	150.000	147.62	-1.6	09	200.000	194.93	-2.5

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
04	10.000	10.53	5.3	05	20.000	17.97	-10.1	06	50.000	50.29	0.6
07	100.000	104.29	4.3	08	200.000	199.88	-0.1				

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.6	02	1.000	1.01	1.1	03	2.000	1.56	-22.1
04	5.000	4.91	-1.9	05	20.000	22.25	11.2	06	50.000	51.70	3.4
07	100.000	105.13	5.1	08	150.000	156.42	4.3	09	200.000	212.96	6.5

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.8	02	1.000	0.97	-3.2	03	2.000	1.86	-6.8
04	5.000	4.74	-5.2	05	20.000	21.73	8.7	06	50.000	51.85	3.7
07	100.000	107.94	7.9	08	150.000	153.06	2.0	09	200.000	207.45	3.7

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.9	02	1.000	0.90	-9.6	03	2.000	1.97	-1.6
04	5.000	5.61	12.2	05	20.000	19.35	-3.2	06	50.000	50.07	0.1
07	100.000	104.29	4.3	08	150.000	159.10	6.1	09	200.000	205.23	2.6

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.68	36.7	02	1.000	0.87	-12.7	03	2.000	2.11	5.7
04	5.000	5.01	0.1	05	20.000	19.38	-3.1	06	50.000	46.27	-7.5
07	100.000	94.14	-5.9	08	150.000	136.49	-9.0	09	200.000	190.99	-4.5

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.08	8.5	03	2.000	1.78	-10.9	04	5.000	4.90	-2.0
05	20.000	20.99	4.9	06	50.000	50.45	0.9	07	100.000	101.21	1.2
08	150.000	147.64	-1.6	09	200.000	198.11	-0.9				

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-4.4	03	2.000	2.03	1.3	04	5.000	5.28	5.5
05	20.000	19.34	-3.3	06	50.000	48.41	-3.2	07	100.000	103.22	3.2
08	150.000	151.52	1.0	09	200.000	199.75	-0.1				

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	10.8	02	1.000	0.80	-19.5	03	2.000	1.88	-6.1
04	5.000	5.11	2.3	05	20.000	21.16	5.8	06	50.000	53.40	6.8
07	100.000	102.00	2.0	08	150.000	145.27	-3.2				

Initial Calibration - Detailed Report

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		Signal ID:	1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.83	-17.4	03	2.000	1.97	-1.3	04	5.000	4.93	-1.4
05	20.000	18.54	-7.3	06	50.000	49.63	-0.7	07	100.000	107.64	7.6
08	150.000	163.99	9.3	09	200.000	222.40	11.2				

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.36	-28.2	02	1.000	1.07	6.9	03	2.000	2.09	4.3
04	5.000	5.33	6.5	05	20.000	21.66	8.3	06	50.000	50.40	0.8
07	100.000	103.39	3.4	08	150.000	142.90	-4.7	09	200.000	205.63	2.8

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	11.2	02	1.000	0.82	-17.9	03	2.000	2.19	9.3
04	5.000	5.26	5.2	05	20.000	20.87	4.4	06	50.000	48.68	-2.6
07	100.000	101.56	1.6	08	150.000	139.41	-7.1	09	200.000	191.90	-4.0

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	5.000	5.08	1.5	05	20.000	18.23	-8.9	06	50.000	52.45	4.9
07	100.000	107.05	7.0	08	150.000	143.60	-4.3	09	200.000	199.04	-0.5

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-3.8	03	2.000	2.09	4.4	04	5.000	5.29	5.7
05	20.000	21.75	8.8	06	50.000	50.05	0.1	07	100.000	100.73	0.7
08	150.000	137.40	-8.4	09	200.000	185.13	-7.4				

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.98	-1.9	03	2.000	1.65	-17.7	04	5.000	5.34	6.9
05	20.000	20.36	1.8	06	50.000	51.05	2.1	07	100.000	101.33	1.3
08	150.000	157.64	5.1	09	200.000	204.82	2.4				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.92	-3.8	04	5.000	4.97	-0.5	05	20.000	18.69	-6.6
06	50.000	50.50	1.0	07	100.000	101.71	1.7	08	150.000	159.83	6.6
09	200.000	203.27	1.6								

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.6	02	1.000	0.86	-14.4	03	2.000	1.71	-14.6
04	5.000	4.59	-8.2	05	20.000	20.21	1.1	06	50.000	50.78	1.6
07	100.000	107.82	7.8	08	150.000	166.79	11.2	09	200.000	218.06	9.0

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.7	02	1.000	0.88	-12.2	03	2.000	2.02	1.2
04	5.000	4.96	-0.8	05	20.000	20.82	4.1	06	50.000	50.95	1.9
07	100.000	103.67	3.7	08	150.000	153.41	2.3	09	200.000	207.12	3.6

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	2.4	03	2.000	1.89	-5.4	04	5.000	5.10	1.9
05	20.000	19.76	-1.2	06	50.000	48.43	-3.1	07	100.000	102.09	2.1
08	150.000	153.05	2.0	09	200.000	202.73	1.4				

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-5.7	03	2.000	1.95	-2.7	04	5.000	5.33	6.5
05	20.000	22.36	11.8	06	50.000	55.41	10.8	07	100.000	103.59	3.6
08	150.000	136.32	-9.1	09	200.000	169.61	-15.2				

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	2.500	2.12	-15.3	02	5.000	4.69	-6.2	03	10.000	9.09	-9.1
04	25.000	25.73	2.9	05	100.000	100.10	0.1	06	250.000	264.22	5.7
07	500.000	519.08	3.8	08	750.000	838.23	11.8	09	1000.000	1,062.87	6.3

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.3	02	1.000	0.96	-4.4	03	2.000	2.05	2.3
04	5.000	5.05	0.9	05	20.000	21.08	5.4	06	50.000	50.09	0.2
07	100.000	101.39	1.4	08	150.000	143.72	-4.2	09	200.000	196.28	-1.9

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.6	02	1.000	1.04	3.9	03	2.000	2.01	0.4
04	5.000	4.91	-1.9	05	20.000	21.22	6.1	06	50.000	47.78	-4.4
07	100.000	97.44	-2.6	08	150.000	135.88	-9.4	09	200.000	196.41	-1.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.91	-4.5	04	5.000	4.78	-4.5	05	20.000	19.26	-3.7
06	50.000	51.62	3.2	07	100.000	104.97	5.0	08	150.000	156.73	4.5
09	200.000	199.97	0.0								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.3	02	1.000	0.96	-3.6	03	2.000	2.19	9.3
04	5.000	5.17	3.3	05	20.000	21.45	7.3	06	50.000	50.22	0.4
07	100.000	102.56	2.6	08	150.000	145.59	-2.9	09	200.000	193.99	-3.0

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
04	10.000	10.89	8.9	05	20.000	18.41	-7.9	06	50.000	50.91	1.8
07	100.000	100.61	0.6	08	200.000	193.23	-3.4				

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-3.0	02	1.000	0.88	-11.9	03	2.000	1.83	-8.4
04	5.000	5.45	9.0	05	20.000	21.32	6.6	06	50.000	50.98	2.0
07	100.000	102.88	2.9	08	150.000	148.74	-0.8	09	200.000	207.48	3.7

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.93	-6.7	03	2.000	1.96	-2.2
04	5.000	4.86	-2.8	05	20.000	21.44	7.2	06	50.000	51.07	2.1
07	100.000	105.05	5.1	08	150.000	146.13	-2.6	09	200.000	206.53	3.3

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.00	0.4	03	2.000	1.96	-2.1	04	5.000	5.21	4.1
05	20.000	19.21	-4.0	06	50.000	49.06	-1.9	07	100.000	104.13	4.1
08	150.000	151.28	0.9	09	200.000	196.51	-1.7				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.9	02	1.000	1.02	2.2	03	2.000	2.01	0.3
04	5.000	4.92	-1.6	05	20.000	21.58	7.9	06	50.000	49.84	-0.3
07	100.000	102.83	2.8	08	150.000	147.68	-1.5	09	200.000	200.13	0.1

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.6	02	1.000	1.05	5.4	03	2.000	1.96	-2.2
04	5.000	4.97	-0.6	05	20.000	20.30	1.5	06	50.000	47.76	-4.5
07	100.000	98.77	-1.2	08	150.000	141.25	-5.8	09	200.000	199.89	-0.1

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-24.2	02	1.000	0.83	-17.0	03	2.000	1.75	-12.3
04	5.000	4.74	-5.2	05	20.000	21.39	7.0	06	50.000	54.34	8.7
07	100.000	113.89	13.9	08	150.000	170.78	13.9	09	200.000	230.74	15.4

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.12	11.7	02	2.000	1.93	-3.7	03	4.000	3.97	-0.8
04	10.000	10.15	1.5	05	40.000	42.85	7.1	06	100.000	99.27	-0.7
07	200.000	198.02	-1.0	08	300.000	271.99	-9.3	09	400.000	380.73	-4.8

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

n-Butyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.17	16.8	03	2.000	2.03	1.4	04	5.000	4.44	-11.3
05	20.000	18.38	-8.1	06	50.000	48.72	-2.6	07	100.000	102.33	2.3
08	150.000	155.87	3.9	09	200.000	195.05	-2.5				

n-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.97	-3.4	03	2.000	1.97	-1.5	04	5.000	5.15	2.9
05	20.000	22.23	11.1	06	50.000	51.12	2.2	07	100.000	103.40	3.4
08	150.000	139.57	-7.0	09	200.000	184.31	-7.8				

n-Heptane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.00	0.3	03	2.000	2.06	3.1	04	5.000	5.07	1.4
05	20.000	21.25	6.2	06	50.000	48.65	-2.7	07	100.000	100.01	0.0
08	150.000	140.99	-6.0	09	200.000	195.24	-2.4				

n-Propylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-1.2	03	2.000	2.21	10.6	04	5.000	5.53	10.6
05	20.000	22.86	14.3	06	50.000	51.46	2.9	07	100.000	97.96	-2.0
08	150.000	124.61	-16.9	09	200.000	163.39	-18.3				

o-Xylene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-9.9	02	1.000	0.92	-8.0	03	2.000	2.10	4.9
04	5.000	5.08	1.5	05	20.000	21.71	8.6	06	50.000	50.37	0.7
07	100.000	103.10	3.1	08	150.000	144.98	-3.3	09	200.000	204.78	2.4

sec-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-0.5	03	2.000	2.18	9.1	04	5.000	5.27	5.3
05	20.000	22.51	12.5	06	50.000	51.36	2.7	07	100.000	99.85	-0.1
08	150.000	129.72	-13.5	09	200.000	169.10	-15.4				

tert-Amyl Methyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.89	-11.2	03	2.000	1.75	-12.4	04	5.000	4.87	-2.5
05	20.000	18.91	-5.5	06	50.000	50.09	0.2	07	100.000	110.33	10.3
08	150.000	166.47	11.0	09	200.000	220.18	10.1				

tert-Butylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.88	-11.5	03	2.000	2.13	6.7	04	5.000	5.46	9.2
05	20.000	22.27	11.4	06	50.000	51.26	2.5	07	100.000	101.12	1.1
08	150.000	134.42	-10.4	09	200.000	182.09	-9.0				

Initial Calibration - Detailed Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Signal ID:	1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.1	02	1.000	0.95	-5.4	03	2.000	2.01	0.4
04	5.000	5.08	1.6	05	20.000	20.99	5.0	06	50.000	48.01	-4.0
07	100.000	100.59	0.6	08	150.000	141.18	-5.9	09	200.000	201.14	0.6

trans-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.5	02	1.000	0.95	-4.5	03	2.000	1.77	-11.5
04	5.000	4.71	-5.8	05	20.000	21.05	5.3	06	50.000	53.70	7.4
07	100.000	104.83	4.8	08	150.000	151.89	1.3	09	200.000	191.93	-4.0

trans-1,4-Dichloro-2-butene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	5.0	02	1.000	0.94	-6.3	03	2.000	1.89	-5.3
04	5.000	4.62	-7.7	05	20.000	22.01	10.1	06	50.000	51.33	2.7
07	100.000	101.51	1.5	08	150.000	153.85	2.6	09	200.000	193.51	-3.2

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:09:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FV 10/20/15
LF 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	676299	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	971511	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	834324	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	434950	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	56631	9.50	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 19.00%#				
46) surr1,1,2-dichloroetha...	6.037	65	77478	9.67	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 19.34%#				
64) SURR3,Toluene-d8	8.488	98	225339	10.18	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.36%#				
69) SURR2,BFB	11.018	95	84994	9.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.24%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	4337	0.45	ug/L		88
3) Chloromethane	1.294	50	8030	0.49	ug/L		83
4) Vinyl Chloride	1.379	62	5090	0.45	ug/L		92
5) Bromomethane	1.623	94	2644	0.54	ug/L		97
6) Chloroethane	1.703	64	3030	0.54	ug/L		99
7) Freon 21	1.867	67	5809	0.45	ug/L		99
8) Trichlorofluoromethane	1.916	101	4681	0.48	ug/L		80
9) Diethyl Ether	2.172	59	4348m	0.55	ug/L		
10) Freon 123a	2.178	67	3608	0.45	ug/L	#	74
11) Freon 123	2.227	83	3715	0.44	ug/L	#	68
12) Acrolein	2.269	56	5481	2.34	ug/L		95
13) 1,1-Diclethene	2.373	96	2528	0.47	ug/L	#	61
14) Freon 113	2.373	101	3880	0.65	ug/L	#	59
15) Acetone	2.416	43	4865	0.80	ug/L		84
16) 2-Propanol	2.562	45	8801	7.24	ug/L		64
17) Iodomethane	2.513	142	827m	0.12	ug/L		
18) Carbon Disulfide	2.568	76	7339	0.47	ug/L		92
19) Acetonitrile	2.684	40	3175	1.78	ug/L	#	56
20) Allyl Chloride	2.727	76	1540	0.54	ug/L	#	24
21) Methyl Acetate	2.769	43	6545m	0.52	ug/L		
22) Methylene Chloride	2.849	84	4806	0.68	ug/L	#	70
23) TBA	3.001	59	10490	7.30	ug/L		100
24) Acrylonitrile	3.135	53	13838	2.43	ug/L		85
25) Methyl-t-Butyl Ether	3.178	73	10568	0.48	ug/L		96
26) trans-1,2-Dichloroethene	3.172	96	3260	0.54	ug/L	#	71
27) 1,1-Diclethane	3.708	63	6194m	0.51	ug/L		
28) Vinyl Acetate	3.824	86	420m	0.32	ug/L		
29) DIPE	3.855	45	17198m	0.47	ug/L		
30) 2-Chloro-1,3-Butadiene	3.842	53	7028	0.46	ug/L		89
31) ETBE	4.434	59	11341m	0.52	ug/L		
32) 2,2-Dichloropropane	4.617	77	2752m	0.47	ug/L		
33) cis-1,2-Dichloroethene	4.635	96	3681m	0.61	ug/L		
34) 2-Butanone	4.684	43	4736m	0.55	ug/L		
35) Propionitrile	4.775	54	4896m	2.18	ug/L		

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:09:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	2226m	0.56	ug/L		
37) Methacrylonitrile	5.056	67	1648m	0.39	ug/L		
38) Tetrahydrofuran	5.159	42	2432	0.43	ug/L		86
39) Chloroform	5.251	83	5432	0.51	ug/L	#	73
40) 1,1,1-Trichloroethane	5.519	97	4223m	0.56	ug/L		
42) Cyclohexane	5.592	41	5954m	0.62	ug/L		
44) Carbontetrachloride	5.781	121	883	0.41	ug/L	#	13
45) 1,1-Dichloropropene	5.805	75	4623	0.55	ug/L	#	76
47) Benzene	6.098	78	12484	0.48	ug/L		82
48) 1,2-Dichloroethane	6.135	62	5027	0.46	ug/L		79
49) Iso-Butyl Alcohol	6.147	43	5487	6.57	ug/L		91
50) TAME	6.354	73	8209	0.44	ug/L		92
51) n-Heptane	6.580	43	8205	0.59	ug/L	#	69
52) 1-Butanol	7.073	56	5382	14.00	ug/L	#	45
53) Trichloroethene	7.025	130	3230	0.49	ug/L		87
54) Methylcyclohexane	7.262	55	6282	0.54	ug/L		81
55) 1,2-Diclpropane	7.299	63	3948m	0.55	ug/L		
56) Dibromomethane	7.439	93	1920	0.46	ug/L	#	62
57) 1,4-Dioxane	7.525	88	1262	7.62	ug/L	#	40
58) Methyl Methacrylate	7.531	69	3195	0.53	ug/L	#	59
59) Bromodichloromethane	7.671	83	3605	0.47	ug/L		80
60) 2-Nitropropane	7.945	41	2906m	1.56	ug/L		
61) 2-Chloroethylvinyl Ether	8.073	63	1987m	0.33	ug/L		
62) cis-1,3-Dichloropropene	8.201	75	3488	0.38	ug/L		86
63) 4-Methyl-2-pentanone	8.402	43	6962	0.43	ug/L		84
65) Toluene	8.561	91	11536	0.43	ug/L		84
66) trans-1,3-Dichloropropene	8.823	75	3340	0.42	ug/L		70
67) Ethyl Methacrylate	8.969	69	4577	0.47	ug/L		83
68) 1,1,2-Trichloroethane	9.012	97	2842	0.46	ug/L		91
71) Tetrachloroethene	9.146	164	2828	0.55	ug/L	#	49
72) 2-Hexanone	9.299	43	5142	0.43	ug/L		89
73) 1,3-Dichloropropane	9.177	76	5508	0.53	ug/L		89
74) Dibromochloromethane	9.402	129	2635	0.46	ug/L		87
75) N-Butyl Acetate	9.451	43	7574	0.41	ug/L	#	67
76) 1,2-Dibromoethane	9.506	107	2347	0.40	ug/L	#	47
77) 3-Chlorobenzotrifluoride	9.994	180	4747	0.47	ug/L	#	78
78) Chlorobenzene	9.988	112	9441	0.54	ug/L	#	76
79) 4-Chlorobenzotrifluoride	10.055	180	5536m	0.61	ug/L		
80) 1,1,1,2-Tetrachloroethane	10.073	131	1959	0.36	ug/L	#	50
81) Ethylbenzene	10.103	106	3189	0.36	ug/L	#	87
82) (m+p)Xylene	10.213	106	12697	1.12	ug/L	#	85
83) o-Xylene	10.561	106	5080	0.45	ug/L		98
84) Styrene	10.579	104	9733	0.50	ug/L		90
85) Bromoform	10.731	173	1363	0.32	ug/L		76
86) 2-Chlorobenzotrifluoride	10.810	180	4813	0.49	ug/L		92
87) Isopropylbenzene	10.896	105	14909	0.51	ug/L		95
88) Cyclohexanone	10.957	55	15762	8.18	ug/L		78
89) trans-1,4-Dichloro-2-B...	11.201	53	1364	0.41	ug/L		90
91) 1,1,2,2-Tetrachloroethane	11.152	83	4422	0.50	ug/L		84
92) Bromobenzene	11.140	156	3830	0.53	ug/L		88
93) 1,2,3-Trichloropropane	11.182	110	1780	0.62	ug/L	#	53

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:09:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

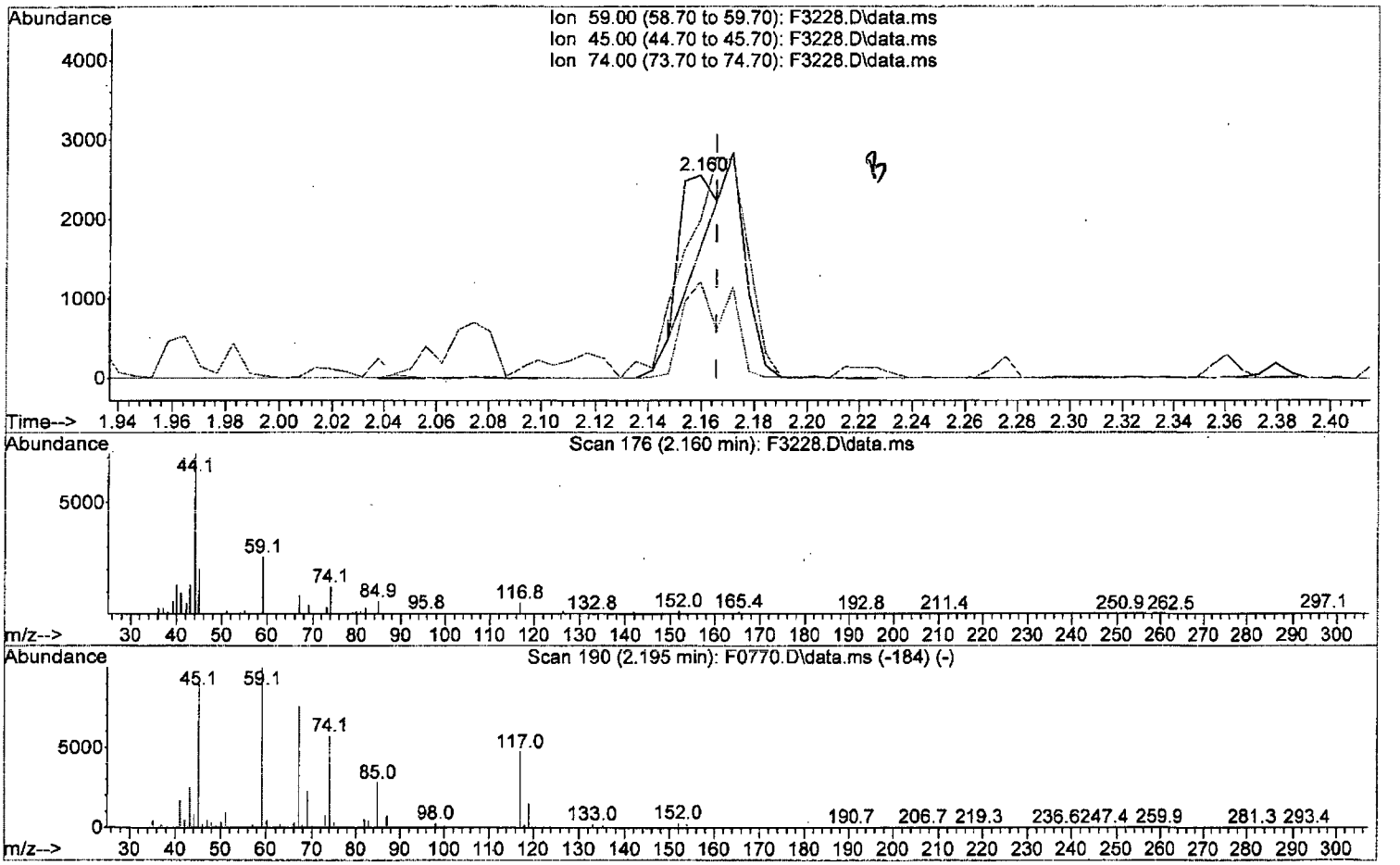
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.249	91	16594	0.51	ug/L		91
95)	2-Chlorotoluene	11.310	91	10290	0.55	ug/L		88
96)	3-Chlorotoluene	11.365	91	10559	0.53	ug/L		93
97)	4-Chlorotoluene	11.408	91	10488	0.47	ug/L		90
98)	1,3,5-Trimethylbenzene	11.402	105	10449	0.46	ug/L		94
99)	tert-Butylbenzene	11.676	119	11960	0.58	ug/L		90
100)	1,2,4-Trimethylbenzene	11.713	105	11848	0.50	ug/L		92
101)	3,4-Dichlorobenzotrifl...	11.768	214	3840	0.53	ug/L		85
102)	sec-Butylbenzene	11.853	105	12808	0.43	ug/L		94
103)	p-Isopropyltoluene	11.975	119	11596	0.48	ug/L		89
104)	1,3-Dclbenz	11.932	146	7792	0.56	ug/L		85
105)	1,4-Dclbenz	12.005	146	7989	0.57	ug/L		96
106)	2,4-Dichlorobenzotrifl...	12.054	214	4356	0.67	ug/L	#	55
107)	2,5-Dichlorobenzotrifl...	12.097	214	3088	0.42	ug/L	#	78
108)	n-Butylbenzene	12.304	91	10139	0.45	ug/L		85
109)	1,2-Dclbenz	12.304	146	7939	0.58	ug/L		93
110)	1,2-Dibromo-3-chloropr...	12.932	157	803	0.43	ug/L	#	64
111)	Trielution Dichlorotol...	13.054	125	17906	1.42	ug/L		97
112)	1,3,5-Trichlorobenzene	13.097	180	4948	0.45	ug/L		87
113)	Coelution Dichlorotoluene	13.377	125	13558	0.96	ug/L		98
114)	1,2,4-Tcbenzene	13.578	180	5873	0.56	ug/L	#	84
115)	Hexachlorobt	13.718	225	2578	0.56	ug/L	#	64
116)	Naphthalen	13.773	128	15925	0.50	ug/L		97
117)	1,2,3-Tclbenzene	13.956	180	6831	0.63	ug/L	#	55
118)	2,4,5-Trichlorotoluene	14.548	159	4470	0.55	ug/L		91
119)	2,3,6-Trichlorotoluene	14.633	159	3270m	0.44	ug/L		

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(9) Diethyl Ether

2.160min (-0.006) 0.17 ug/L

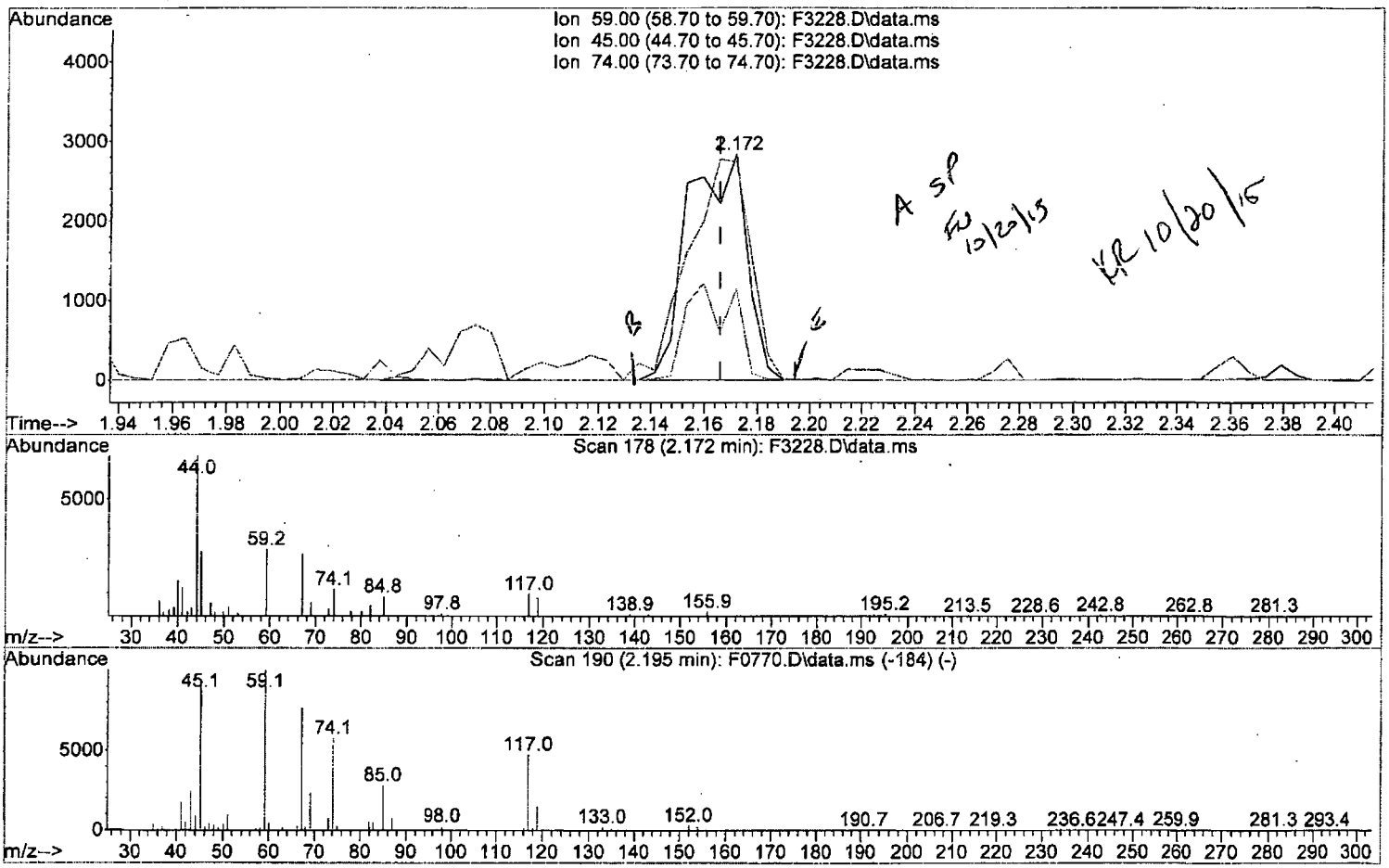
response 1339

Ion	Exp%	Act%
59.00	100	100
45.00	87.70	78.06
74.00	67.40	47.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(9) Diethyl Ether

2.172min (+0.006) 0.55 ug/L m

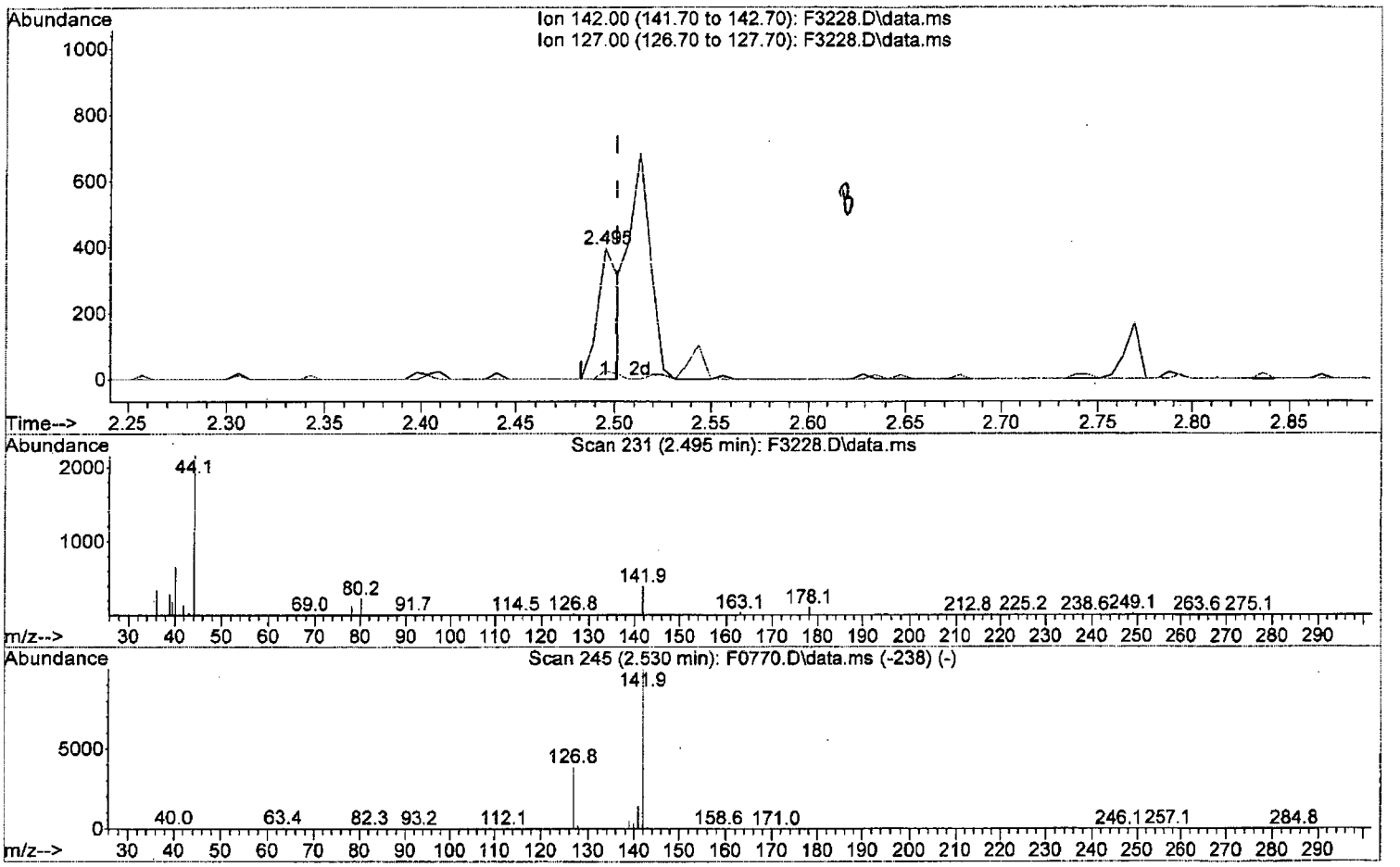
response 4348

Ion	Exp%	Act%
59.00	100	100
45.00	87.70	96.55
74.00	67.40	40.43#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(17) Iodomethane

2.495min (-0.006) 0.04 ug/L

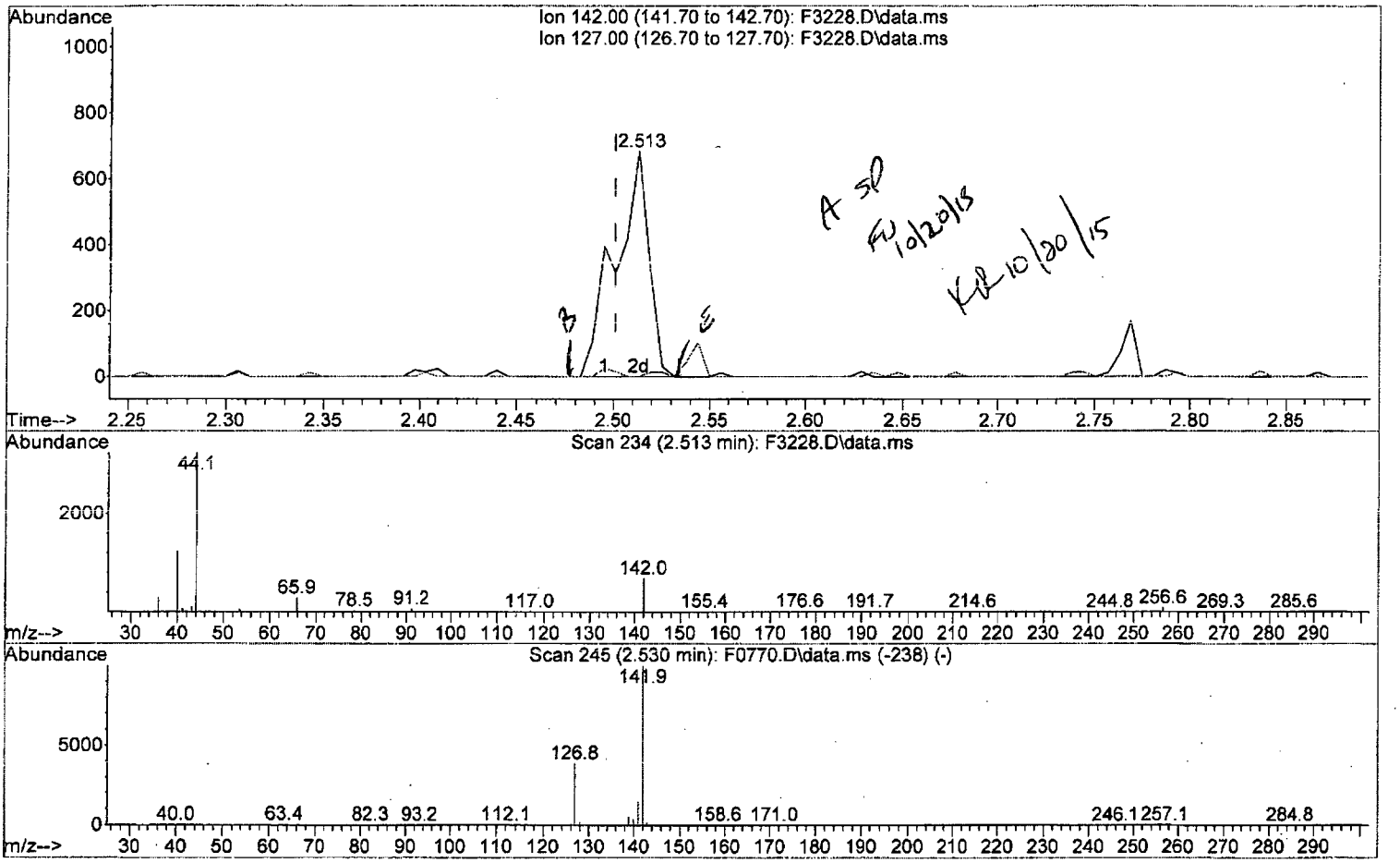
response 298

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	6.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(17) Iodomethane

2.513min (+0.012) 0.12 ug/L m

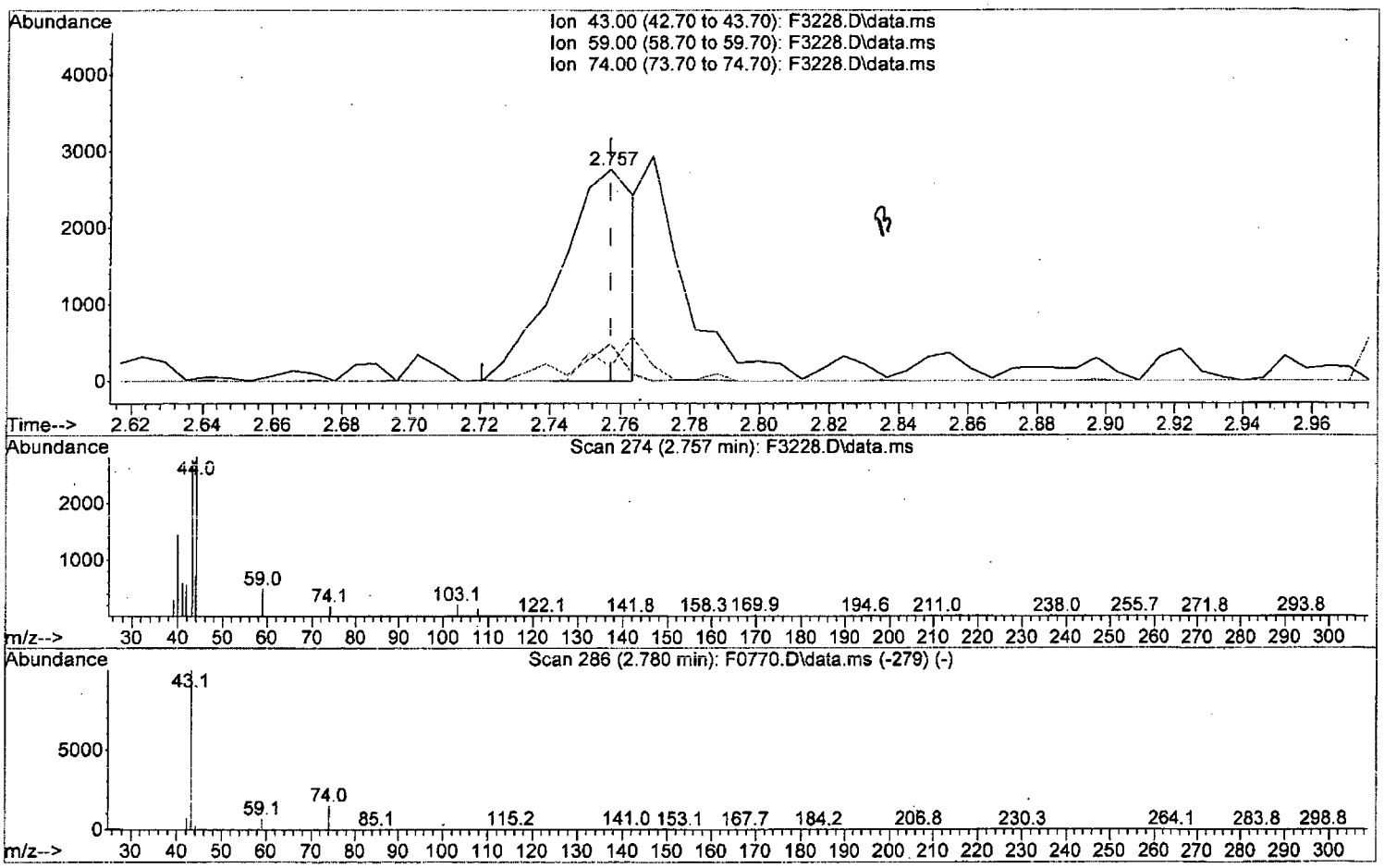
response 827

Ion	Exp%	Act%
142.00	100	100
127.00	38.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(21) Methyl Acetate (P)

2.757min (-0.000) 0.33 ug/L

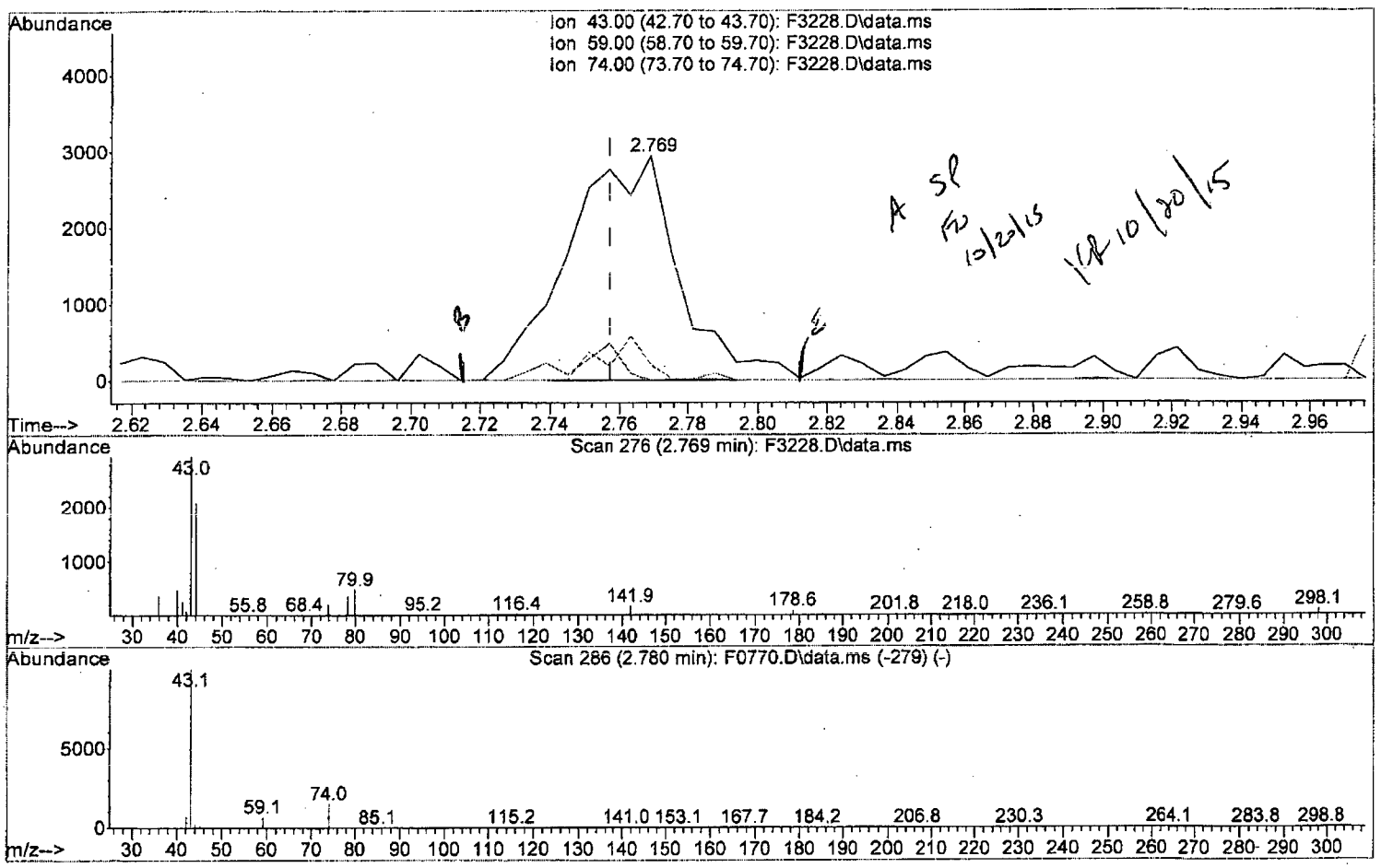
response 4122

Ion	Exp%	Act%
43.00	100	100
59.00	6.60	17.53
74.00	14.80	6.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(21) Methyl Acetate (P)

2.769min (+0.012) 0.52 ug/L m

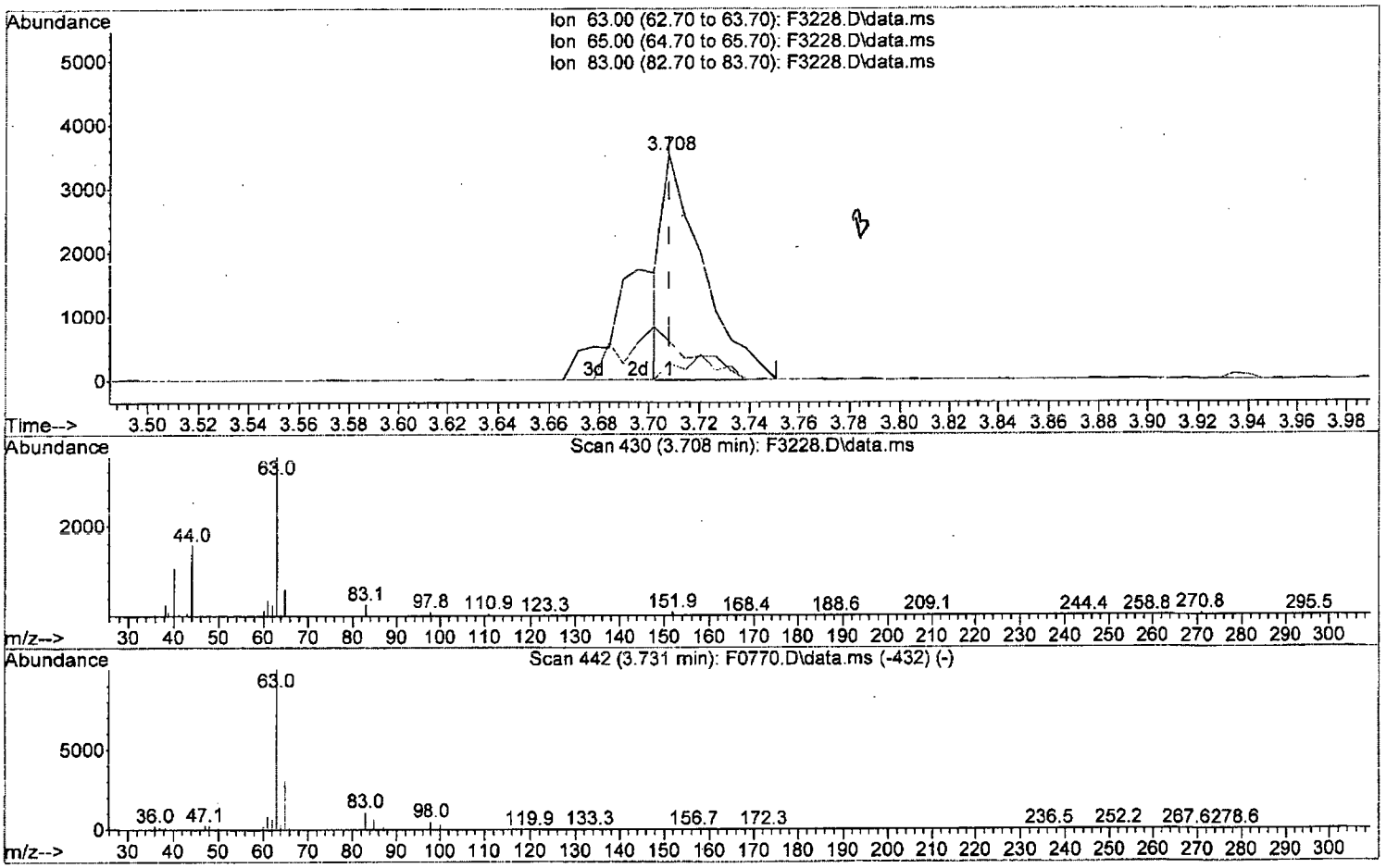
response 6545

Ion	Exp%	Act%
43.00	100	100
59.00	6.60	0.00
74.00	14.80	6.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(27) 1,1-Diclethane (P)

3.708min (-0.000) 0.32 ug/L

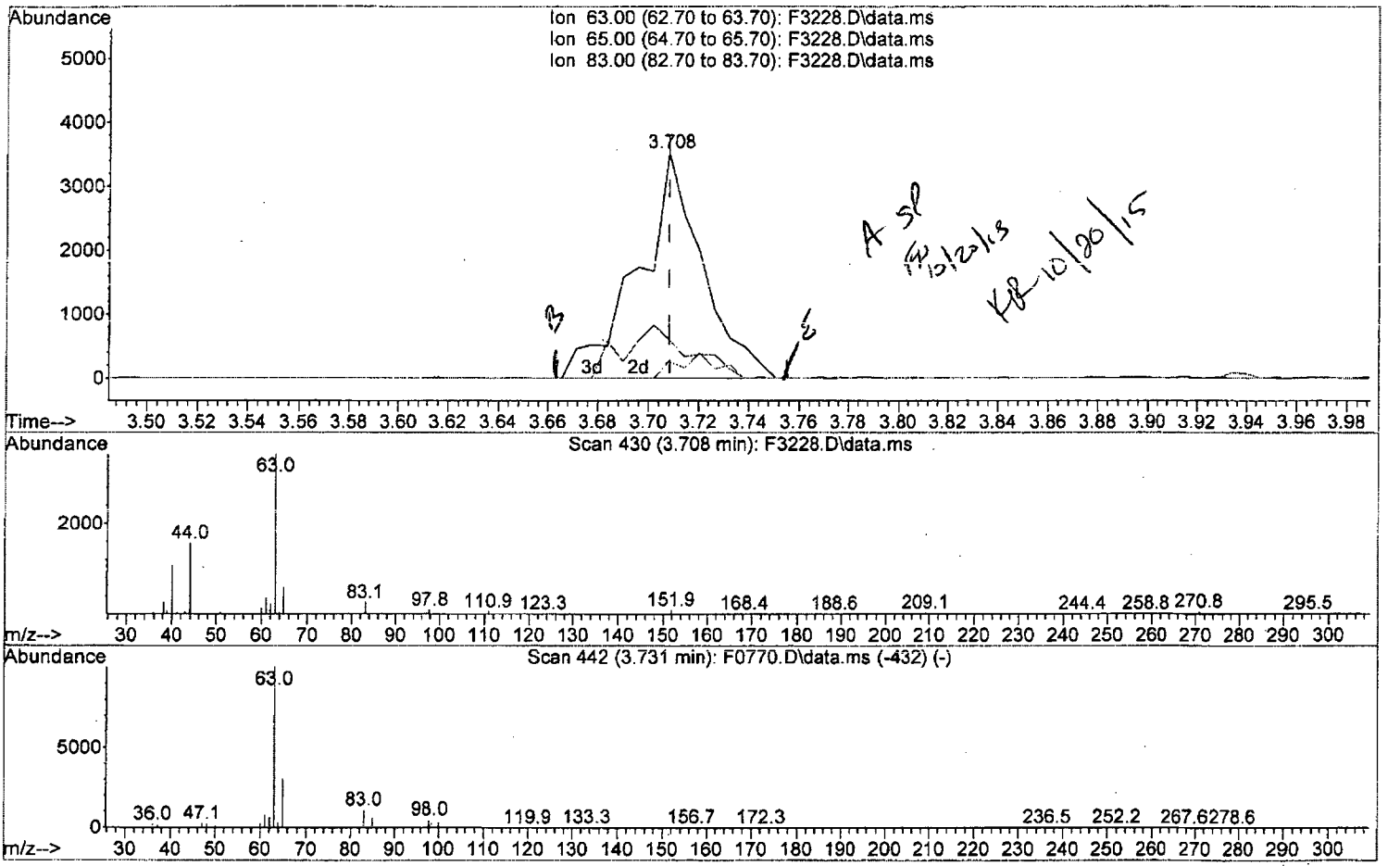
response 3835

Ion	Exp%	Act%
63.00	100	100
65.00	29.90	16.80
83.00	11.10	7.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(27) 1,1-Dicletnane (P)

3.708min (-0.000) 0.51 ug/L m

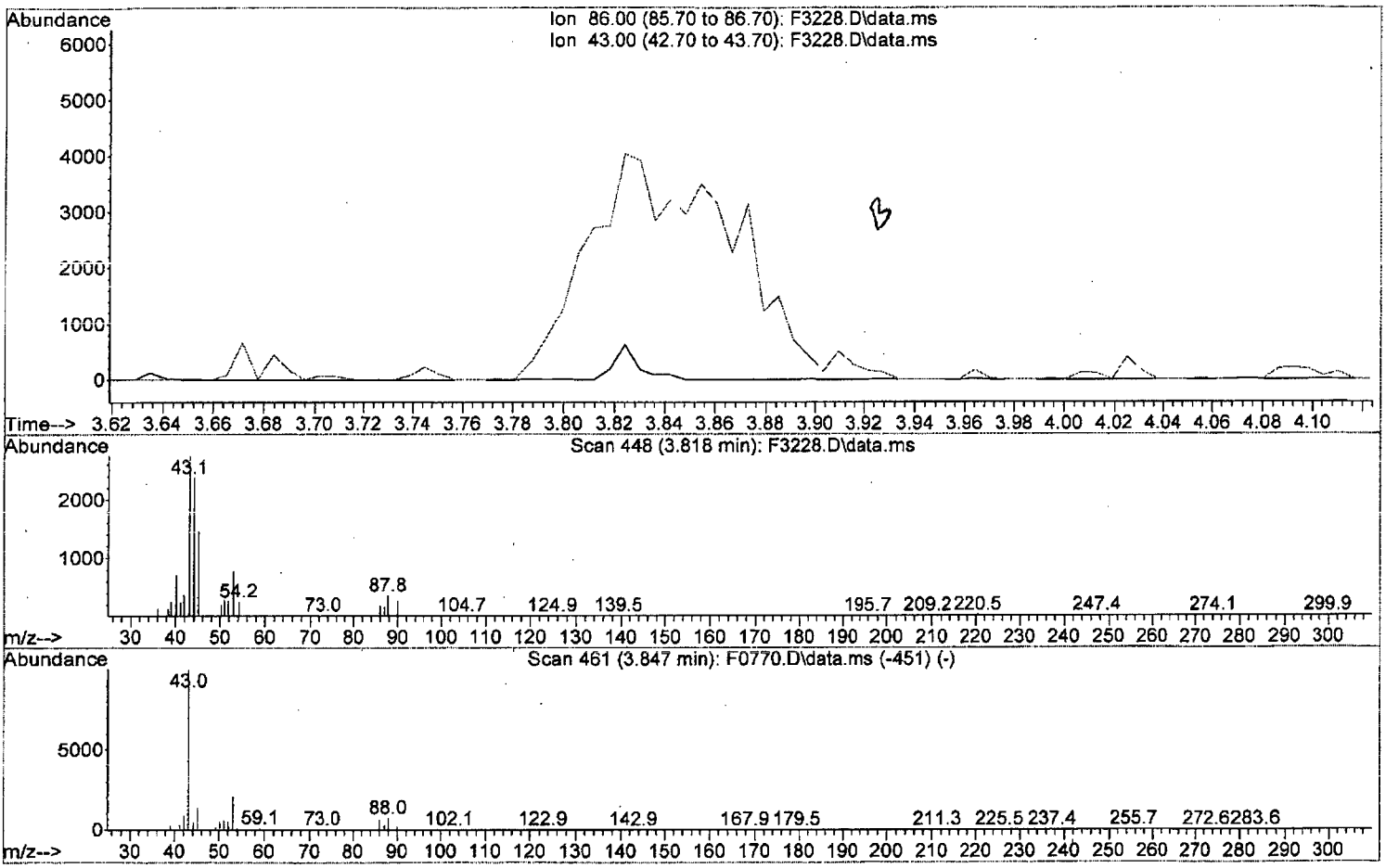
response 6194

Ion	Exp%	Act%
63.00	100	100
65.00	29.90	16.80
83.00	11.10	7.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(28) Vinyl Acetate

3.818min (-3.818) 0.00 ug/L

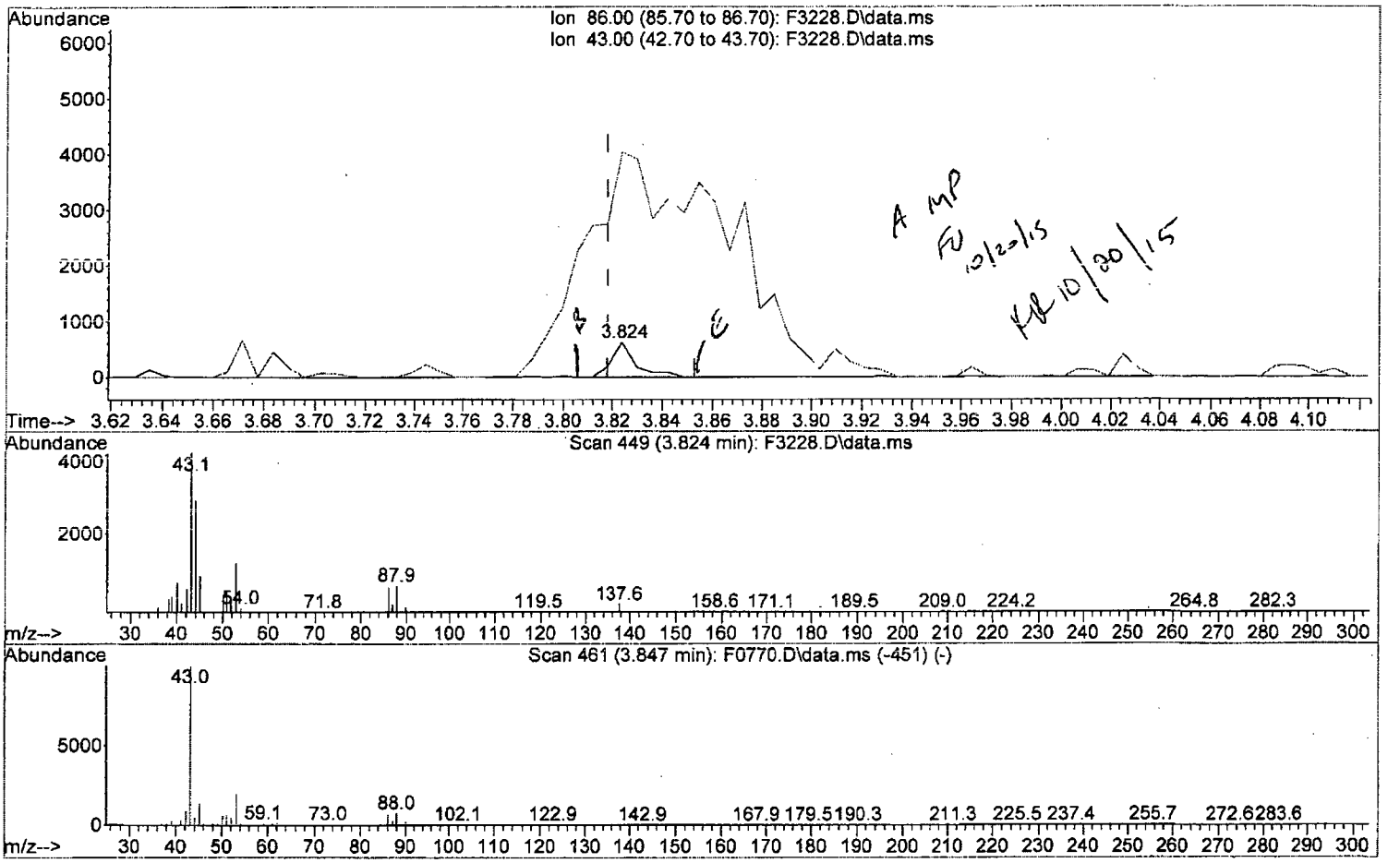
response 0

Ion	Exp%	Act%
86.00	100	0.00
43.00	1655.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(28) Vinyl Acetate

3.824min (+0.006) 0.32 ug/L m

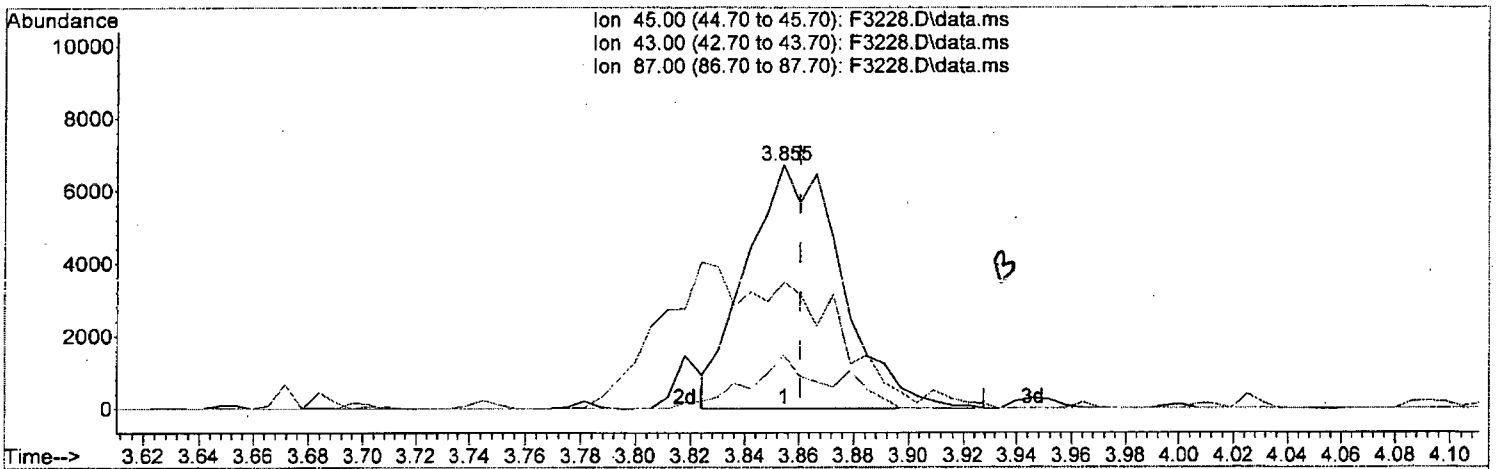
response 420

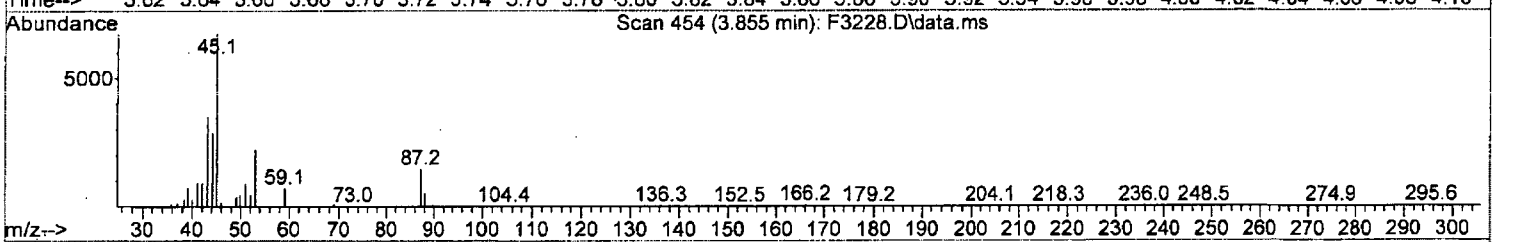
Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	648.39#
0.00	0.00	0.00
0.00	0.00	0.00

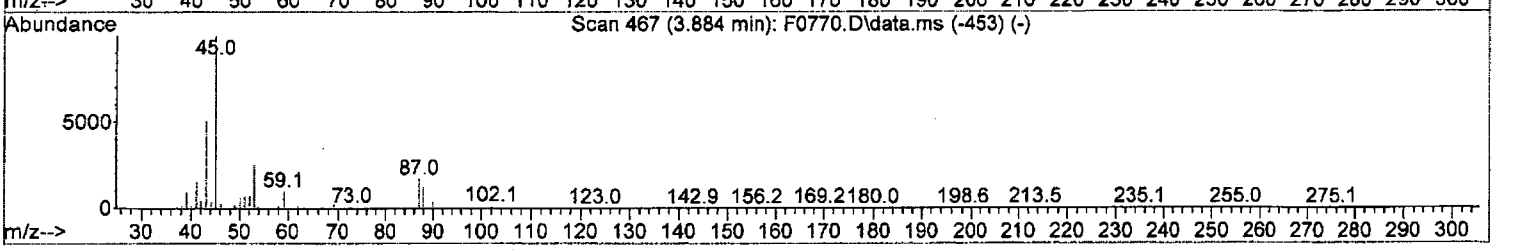
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3228.D\data.ms

(29) DIPE

3.855min (-0.006) 0.45 ug/L

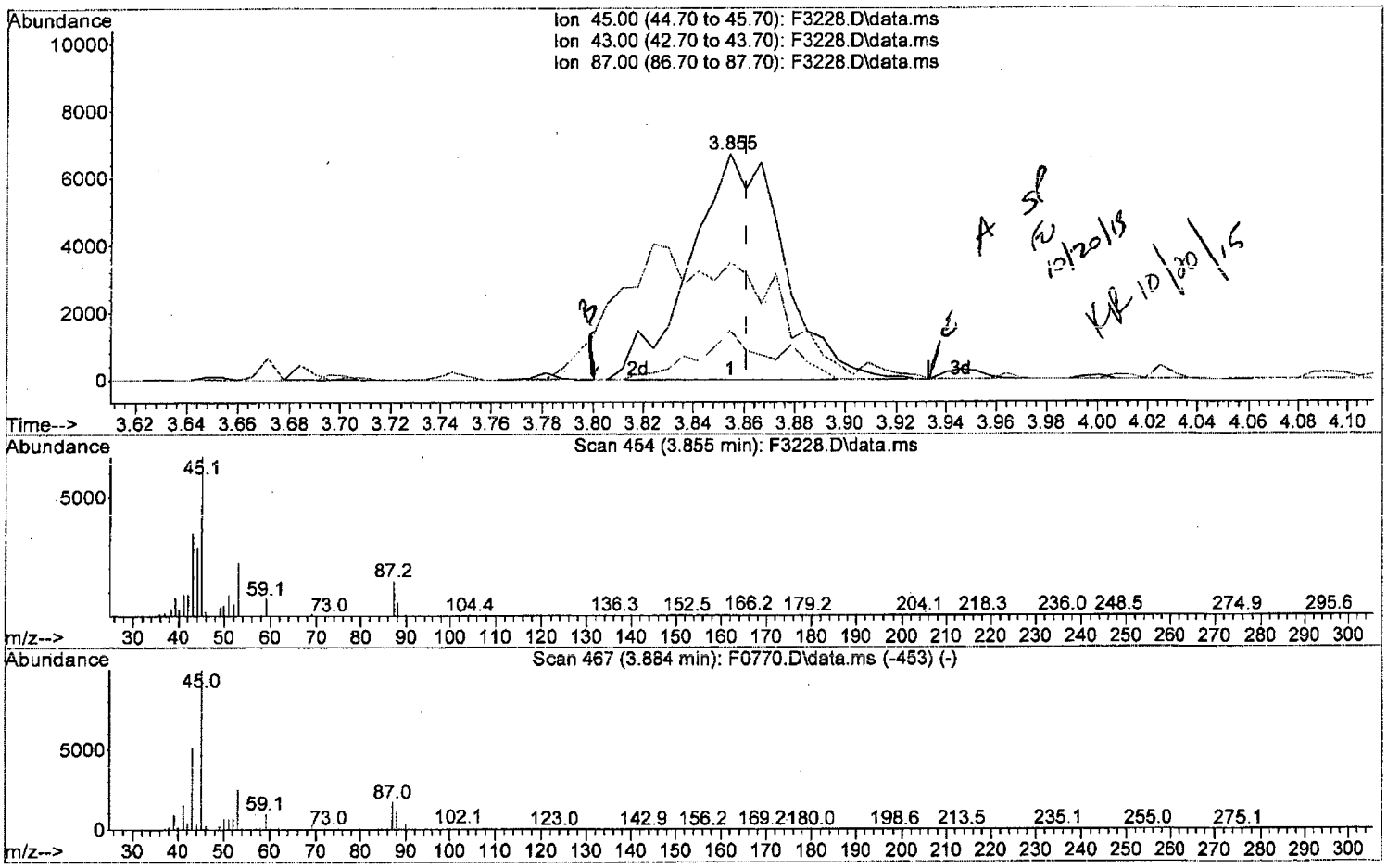
response 16212

Ion	Exp%	Act%
45.00	100	100
43.00	50.70	51.98
87.00	16.70	21.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(29) DIPE

3.855min (-0.006) 0.47 ug/L m

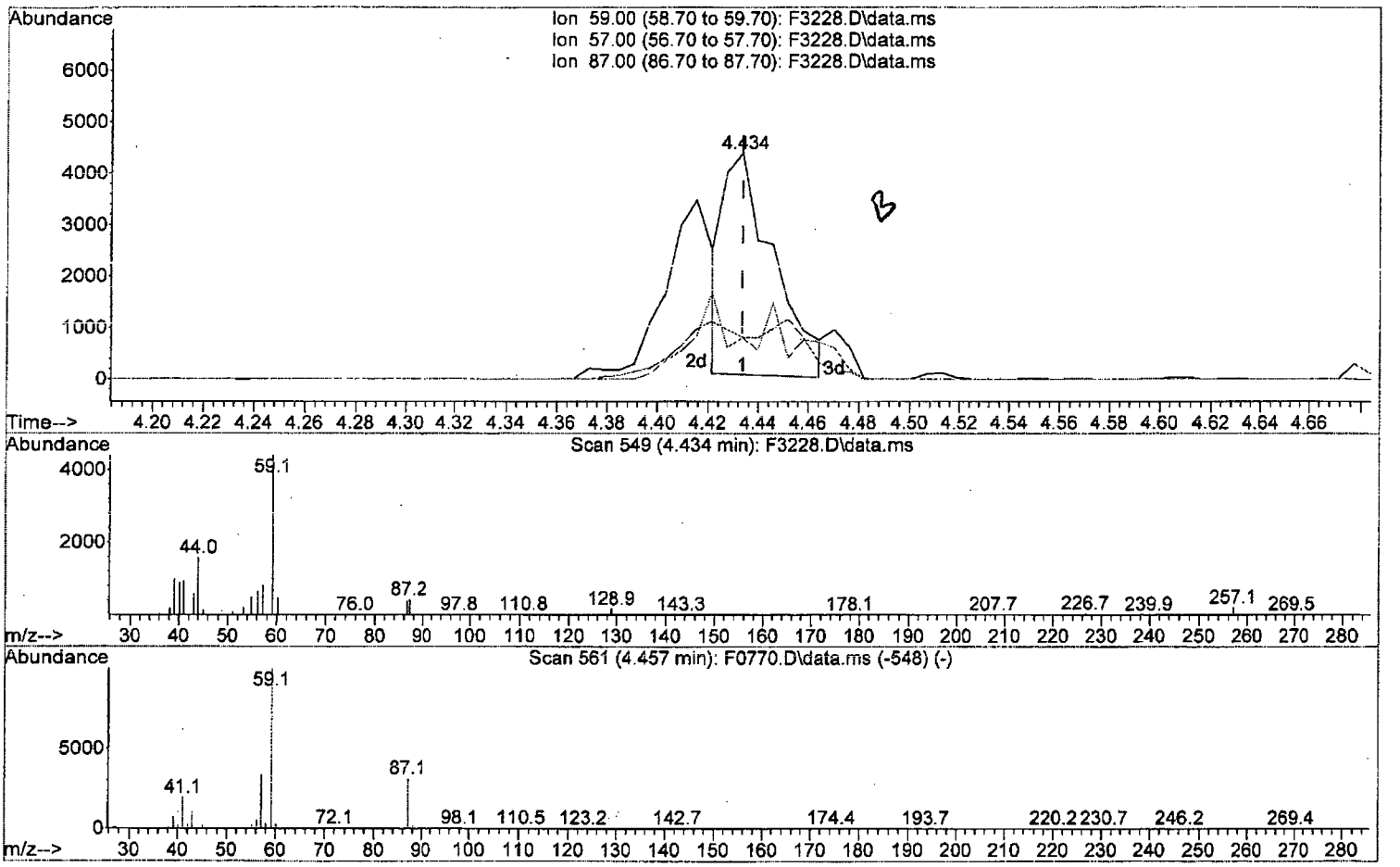
response 17198

Ion	Exp%	Act%
45.00	100	100
43.00	50.70	51.98
87.00	16.70	21.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(31) ETBE

4.434min (-0.000) 0.27 ug/L

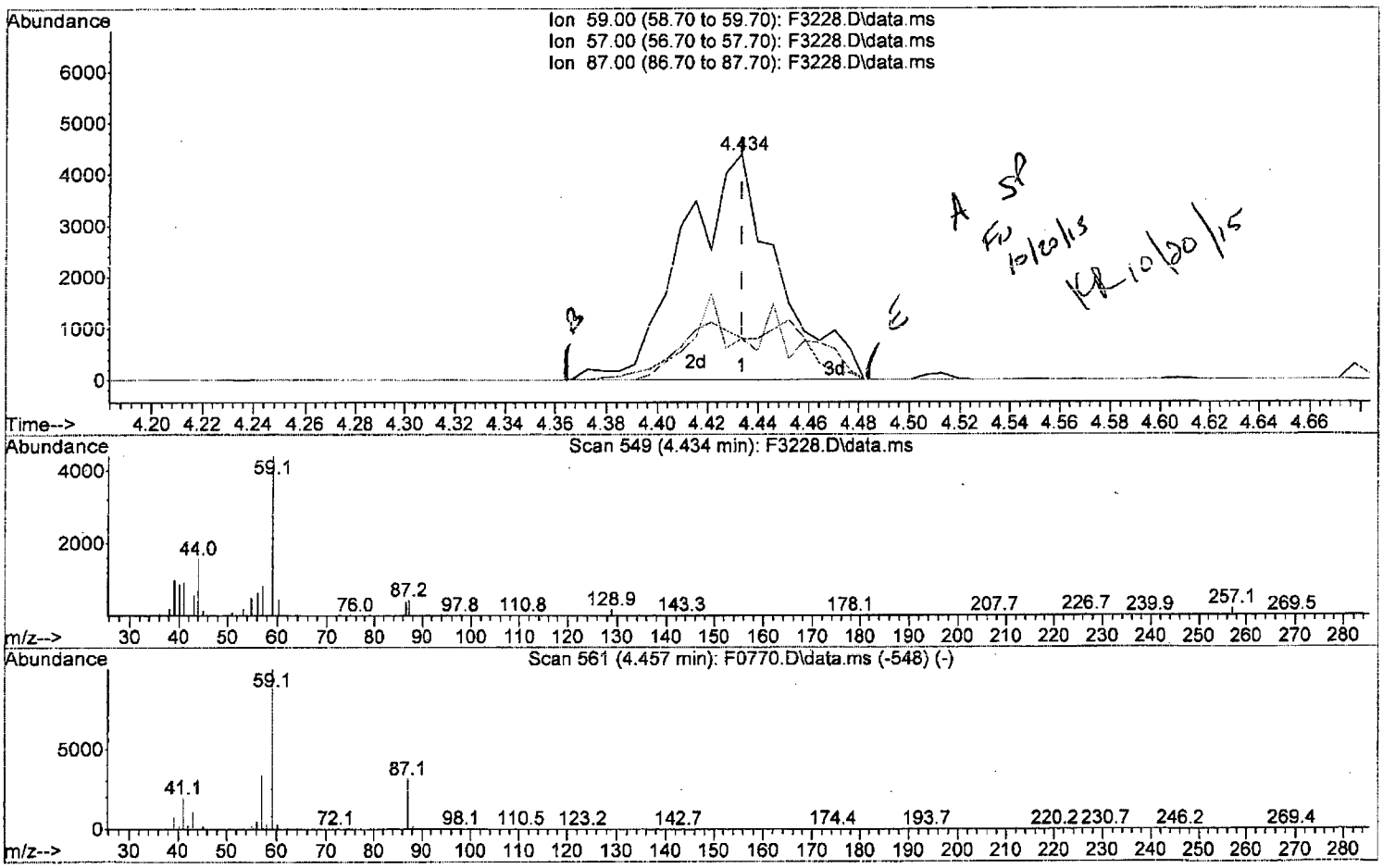
response 5996

Ion	Exp%	Act%
59.00	100	100
57.00	33.10	18.47
87.00	31.20	18.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(31) ETBE

4.434min (-0.000) 0.52 ug/L m

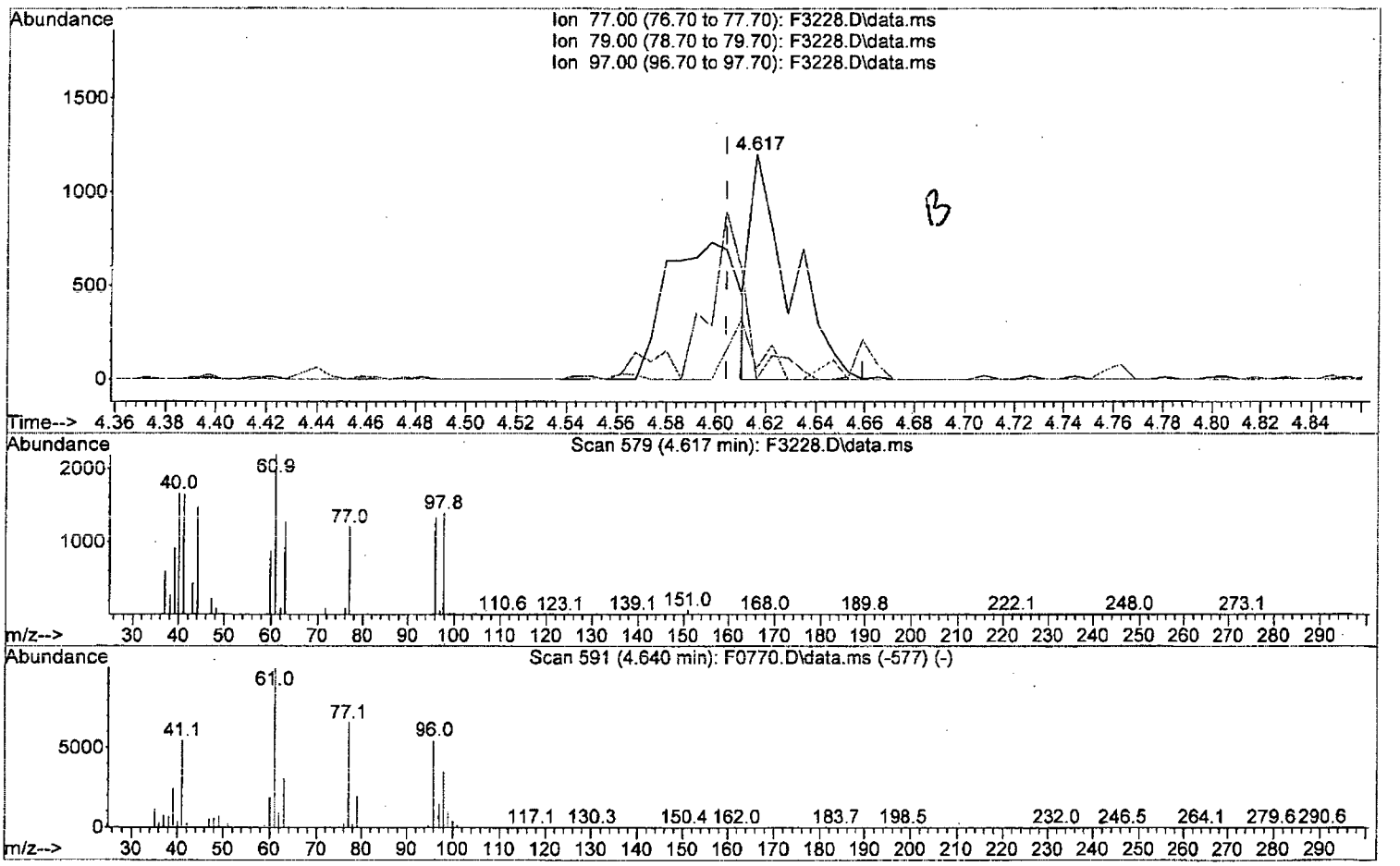
response 11341

Ion	Exp%	Act%
59.00	100	100
57.00	33.10	18.47
87.00	31.20	9.63#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(32) 2,2-Dichloropropane

4.617min (+0.012) 0.22 ug/L

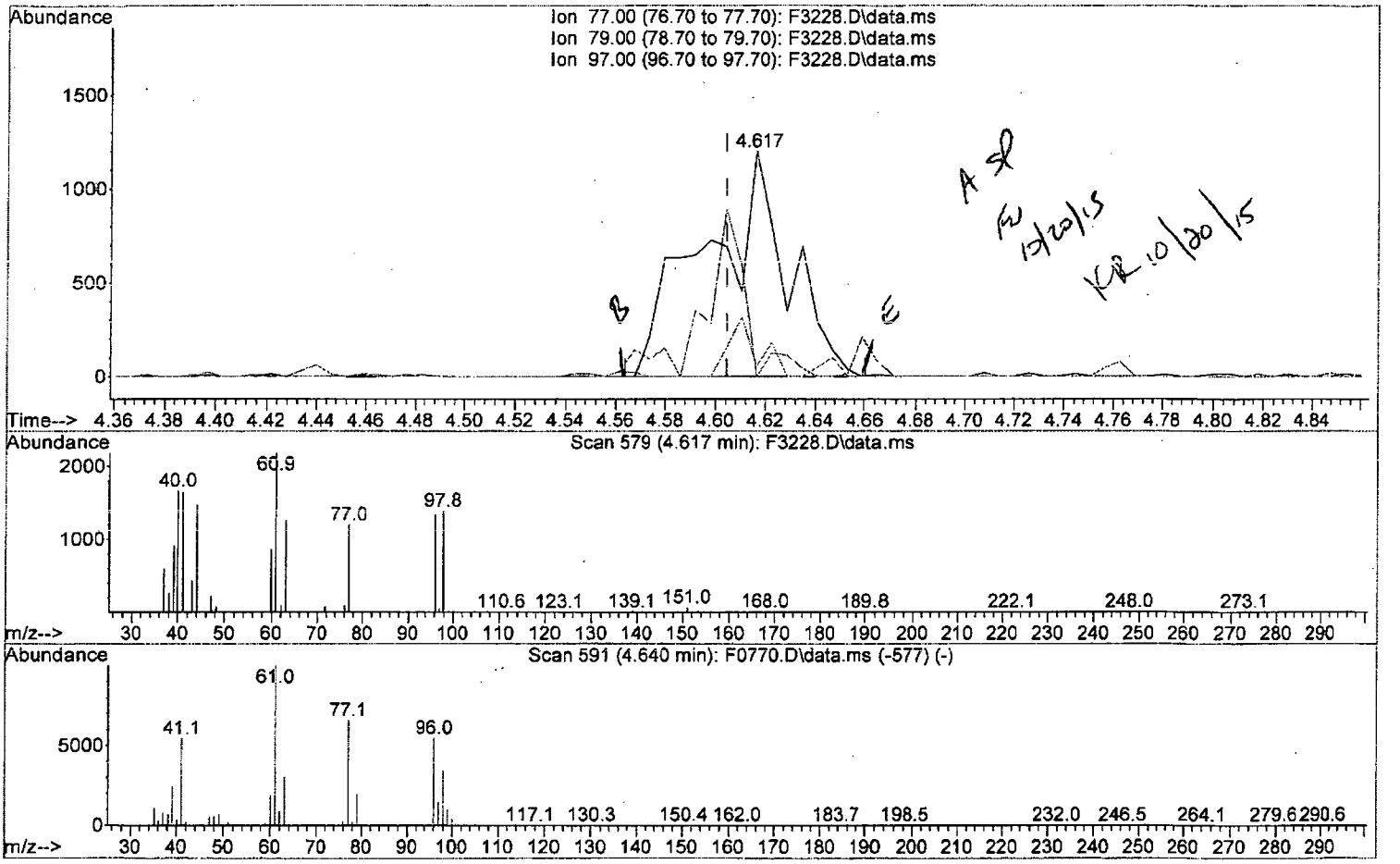
response 1288

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	0.00#
97.00	22.40	4.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(32) 2,2-Dichloropropane

4.617min (+0.012) 0.47 ug/L m

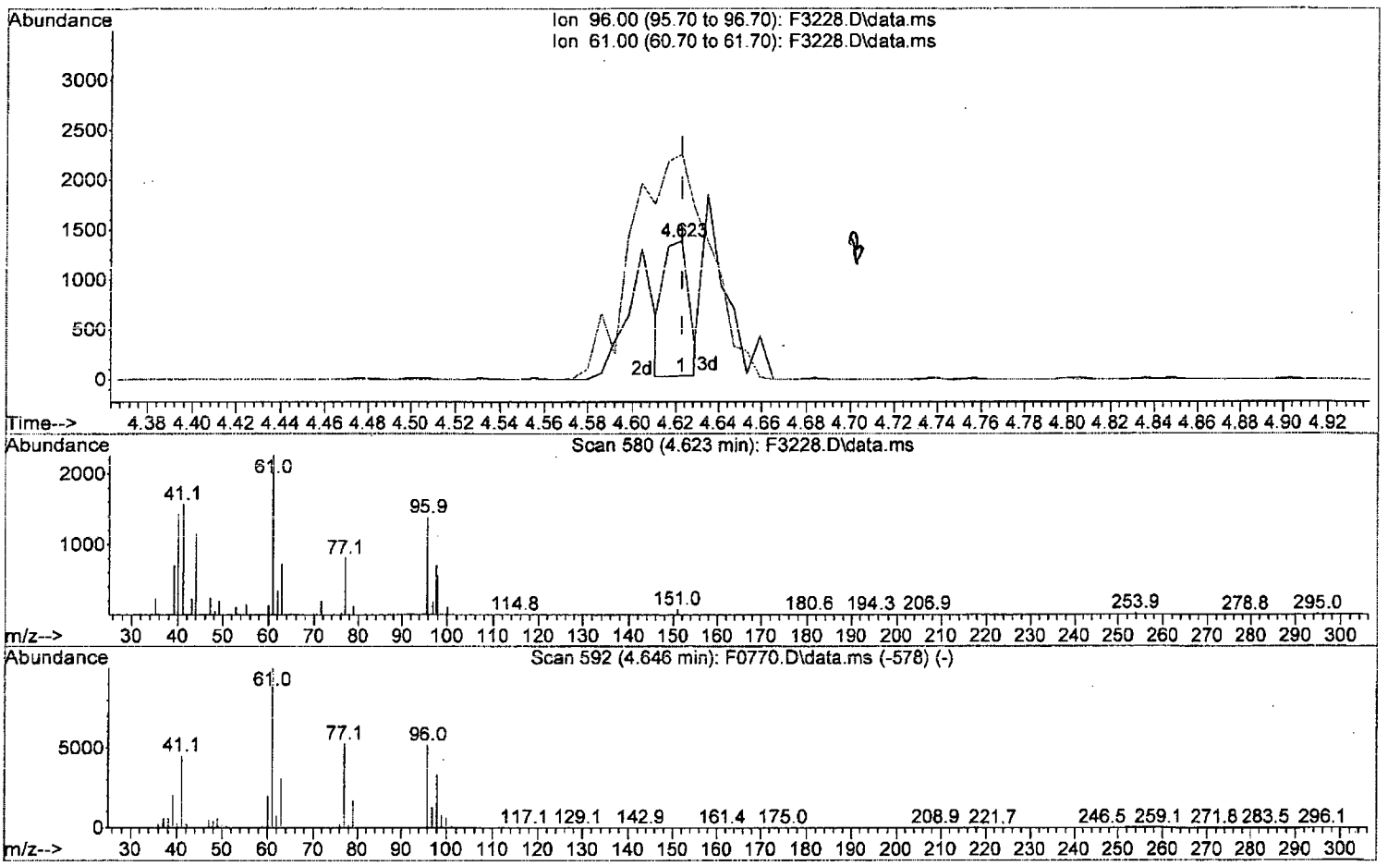
response 2752

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	0.00#
97.00	22.40	4.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.623min (-0.000) 0.18 ug/L

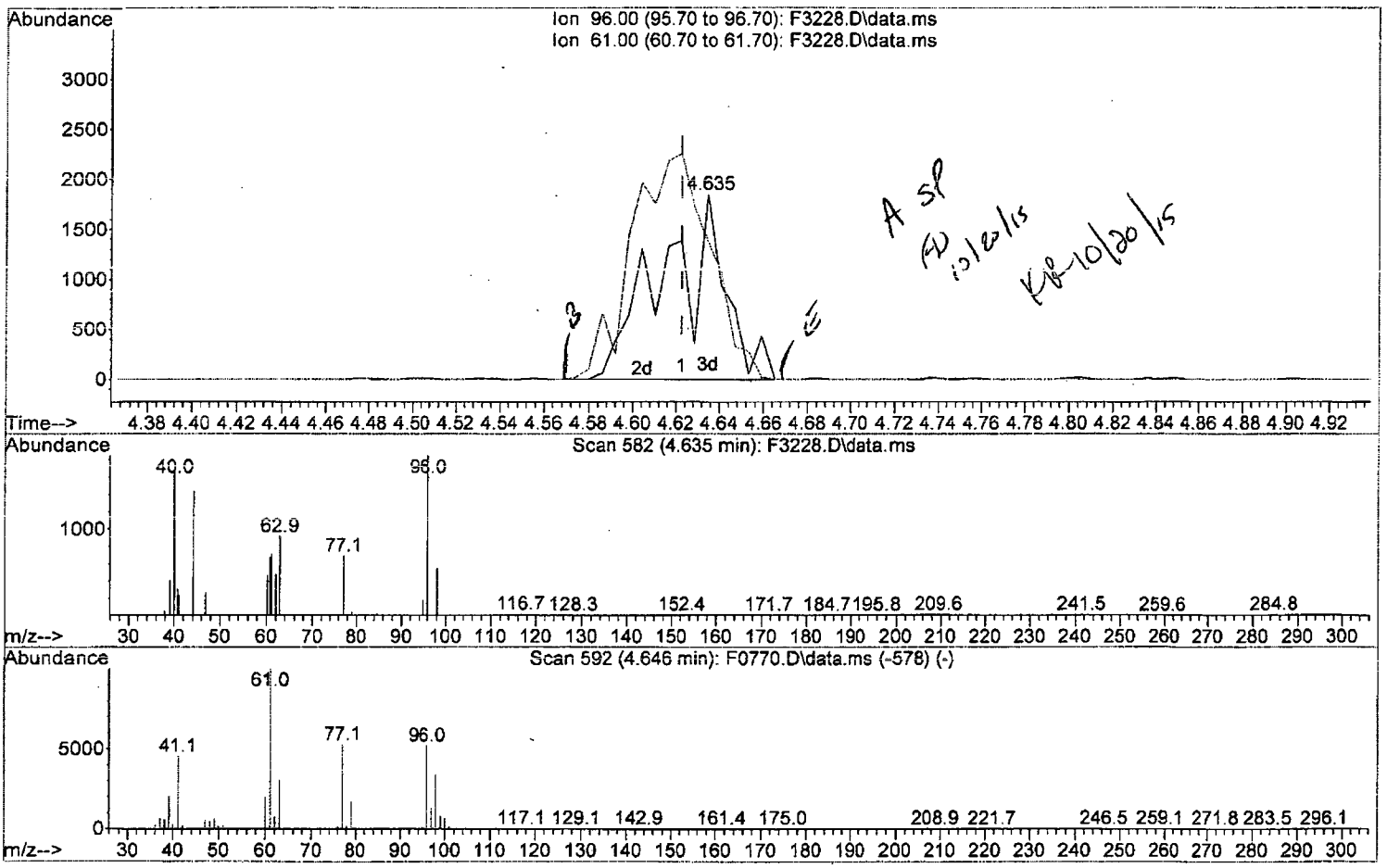
response 1090

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	162.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.635min (+0.012) 0.61 ug/L m

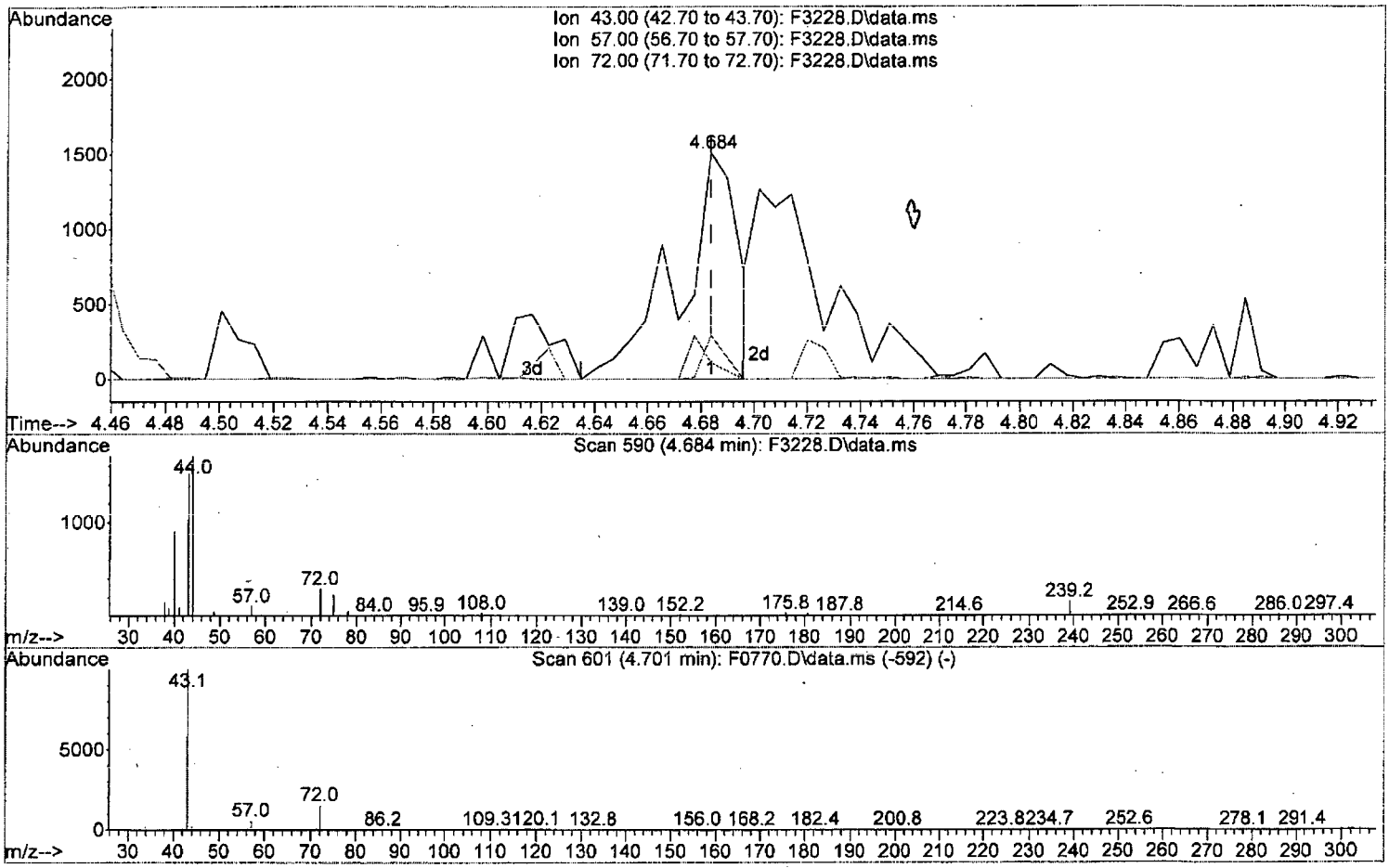
response 3681

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	38.33#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(34) 2-Butanone (P)

4.684min (-0.000) 0.26 ug/L

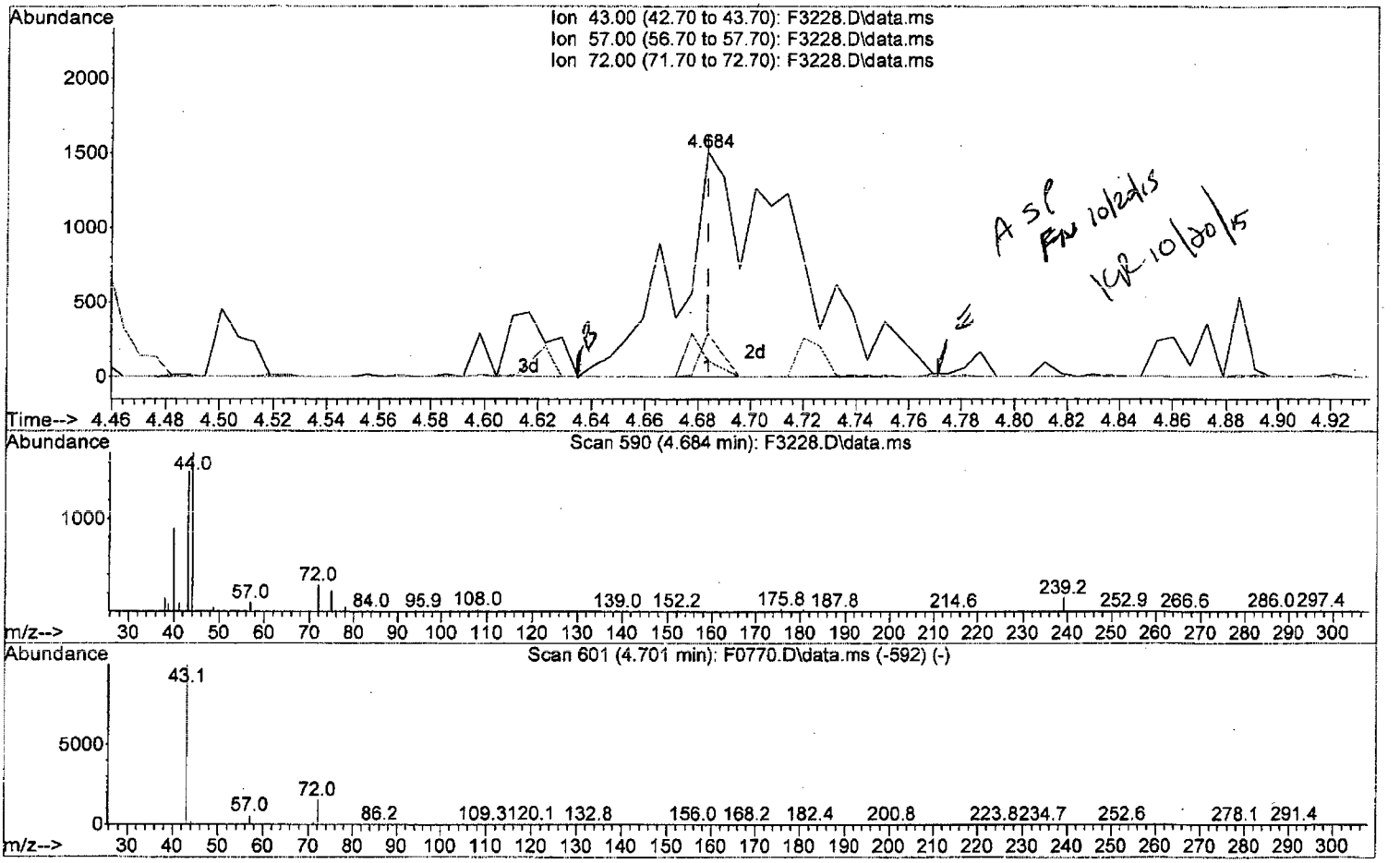
response 2289

Ion	Exp%	Act%
43.00	100	100
57.00	5.70	7.11
72.00	15.30	19.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(34) 2-Butanone (P)

4.684min (-0.000) 0.55 ug/L m

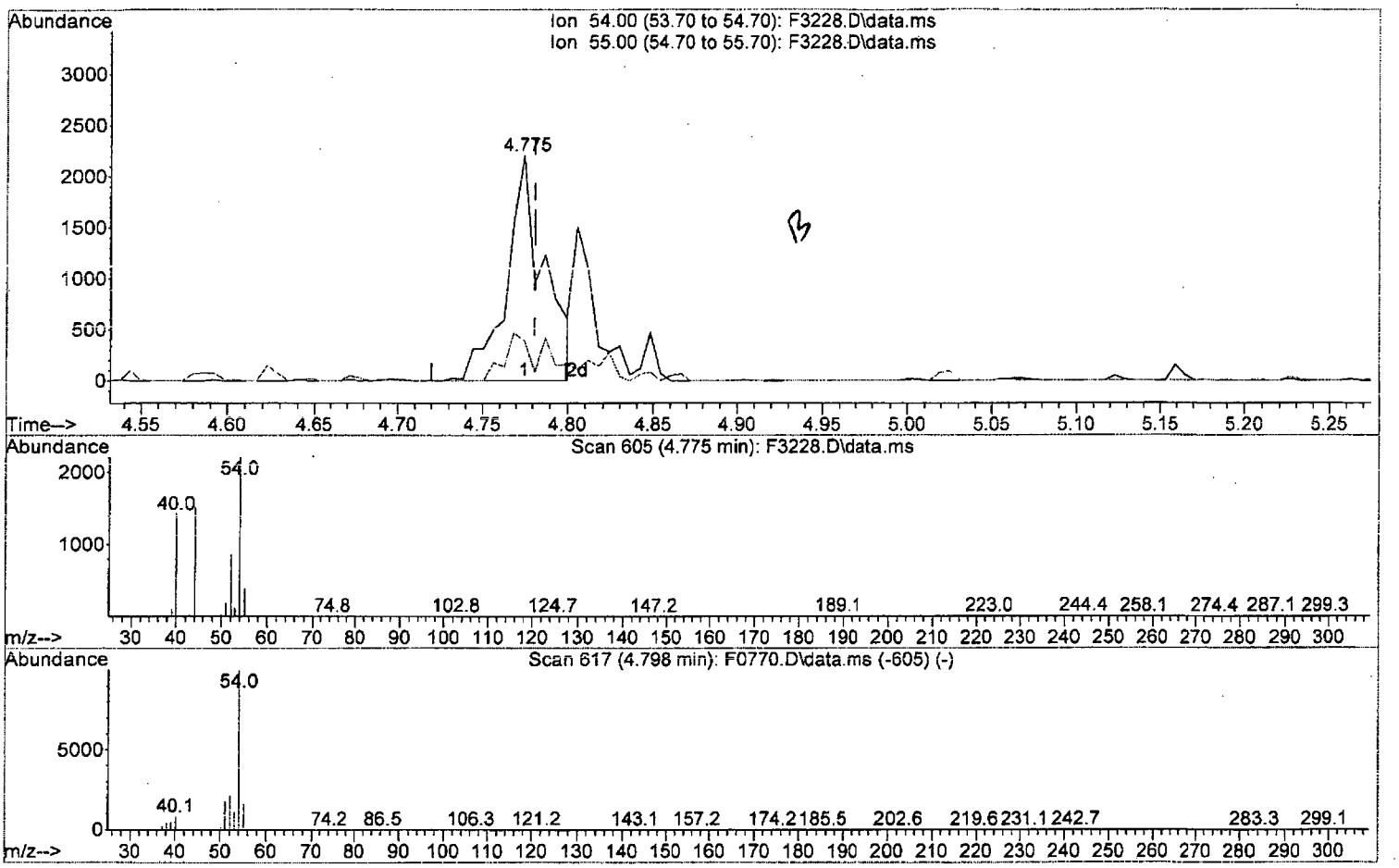
response 4736

Ion	Exp%	Act%
43.00	100	100
57.00	5.70	7.11
72.00	15.30	19.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(35) Propionitrile

4.775min (-0.006) 1.49 ug/L

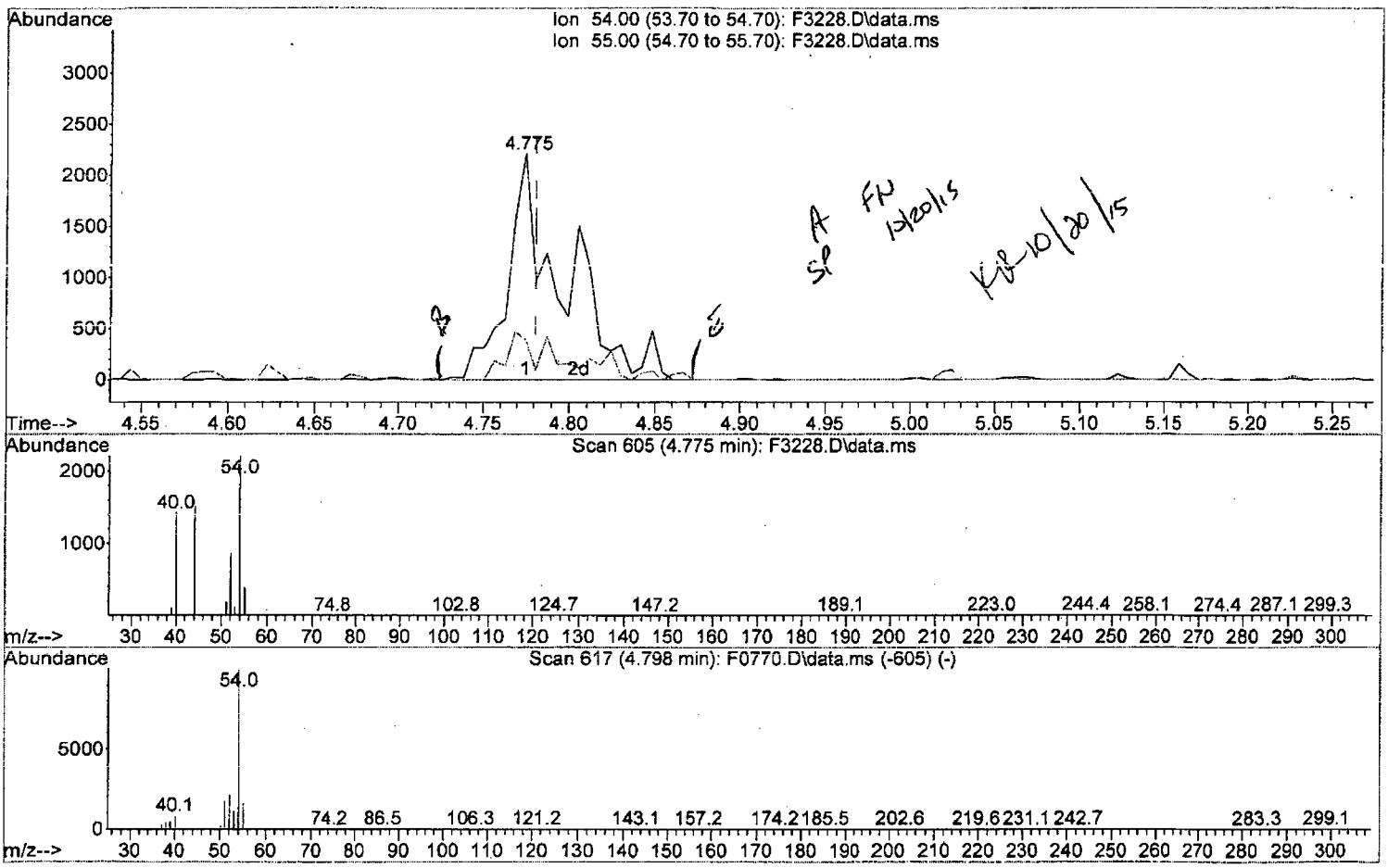
response 3336

Ion	Exp%	Act%
54.00	100	100
55.00	16.30	17.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(35) Propionitrile

4.775min (-0.006) 2.18 ug/L m

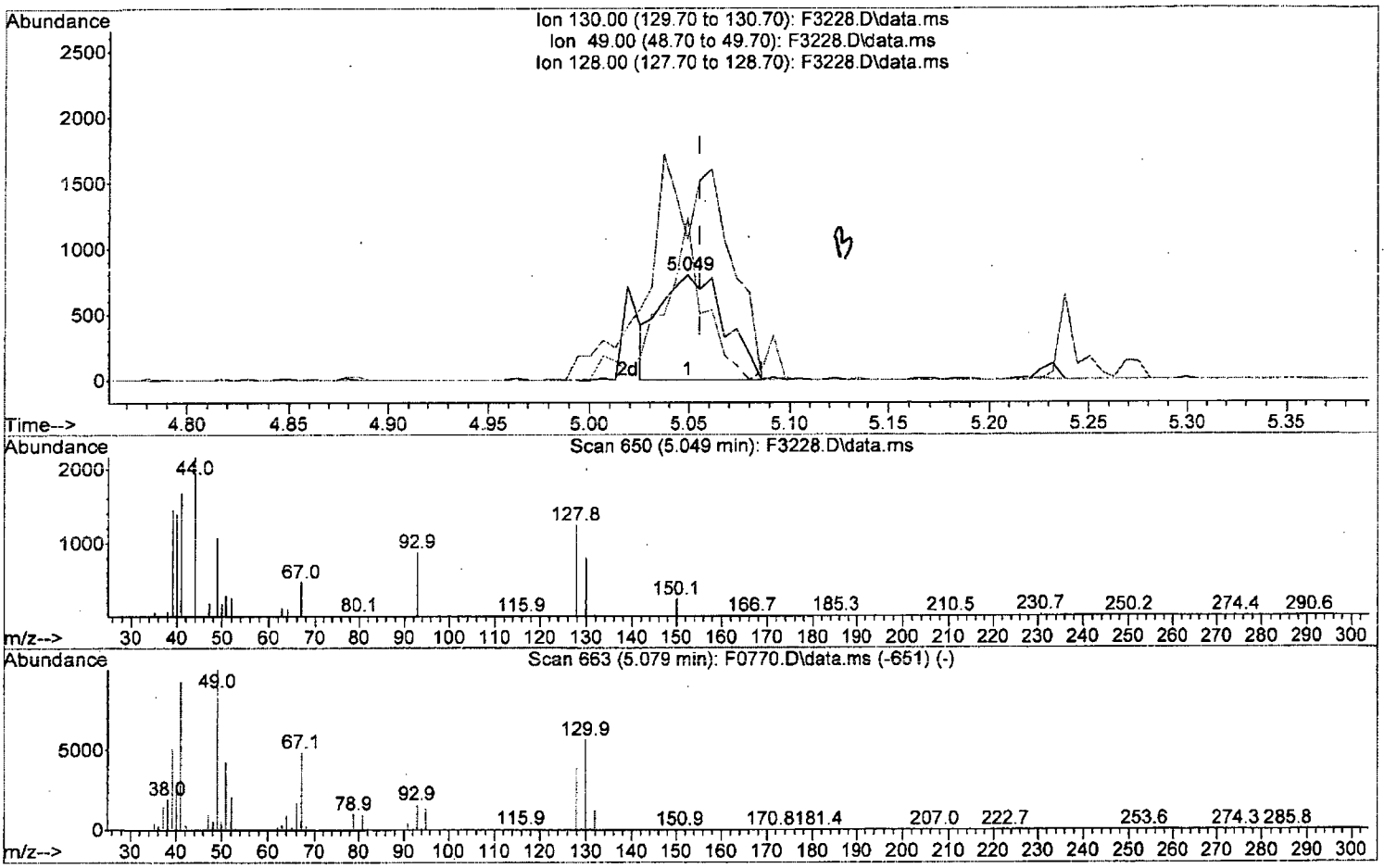
response 4896

Ion	Exp%	Act%
54.00	100	100
55.00	16.30	17.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(36) Bromochloromethane

5.049min (-0.006) 0.45 ug/L

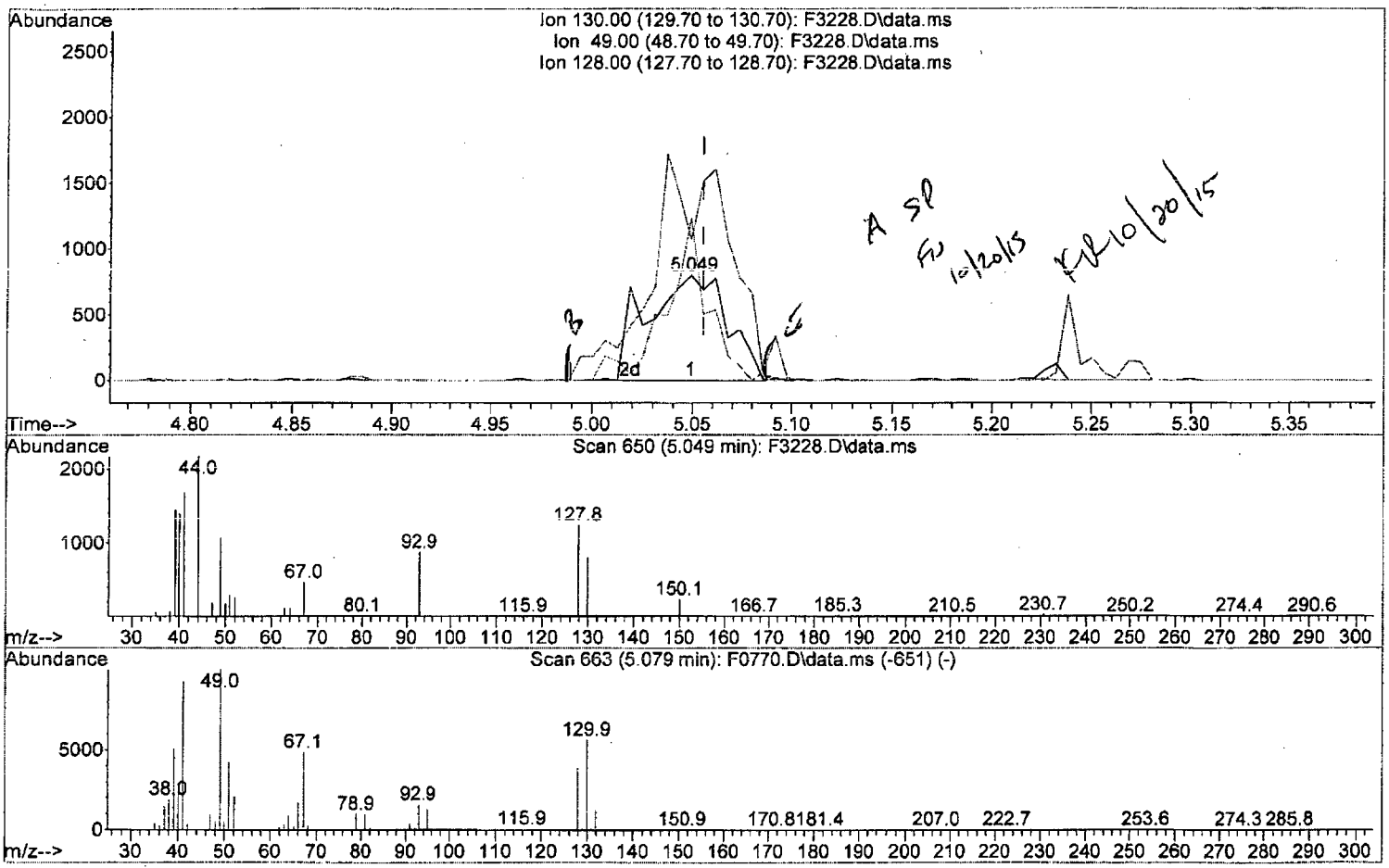
response 1809

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	133.63#
128.00	68.20	155.33#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(36) Bromochloromethane

5.049min (-0.006) 0.56 ug/L m

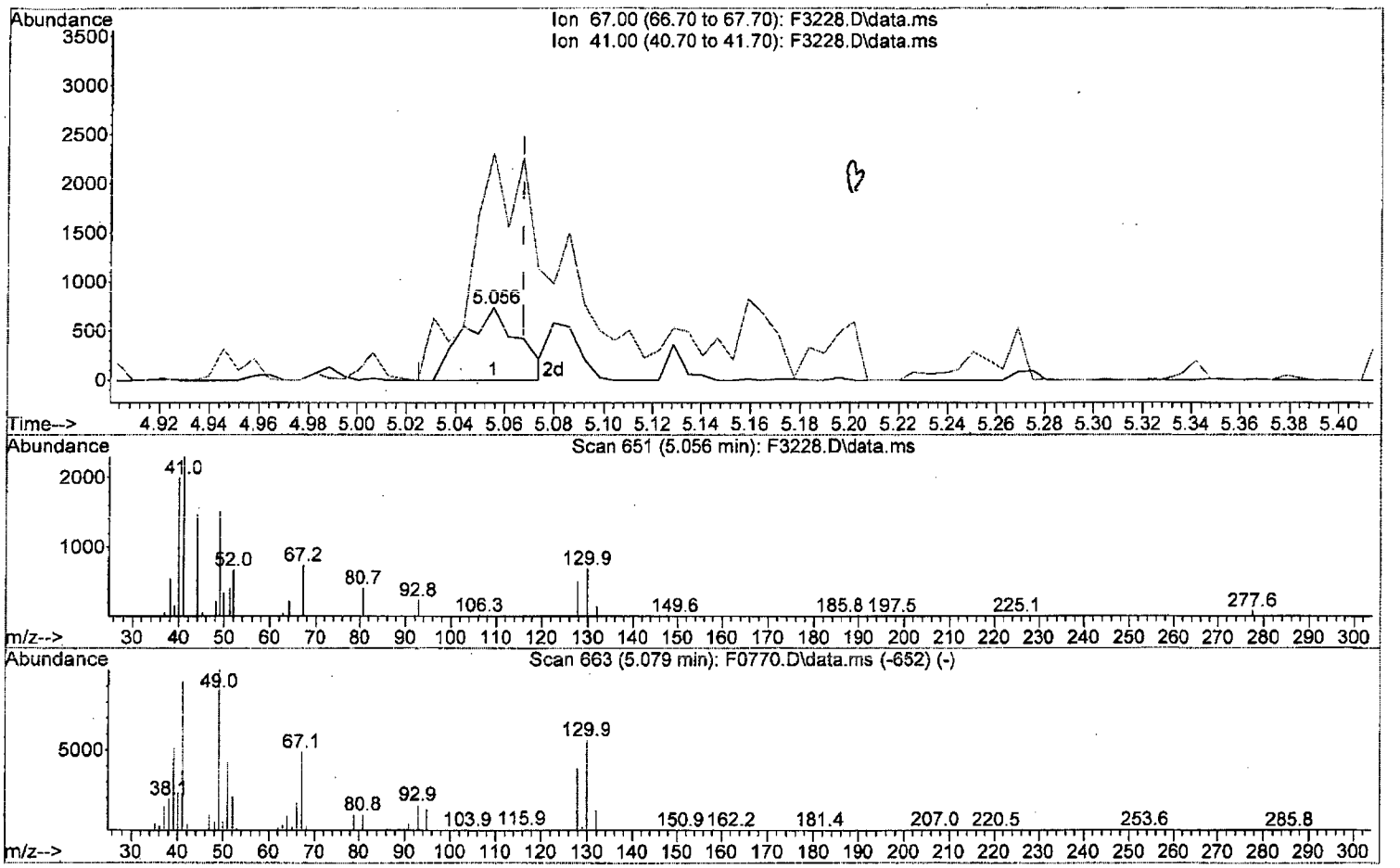
response 2226

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	133.63#
128.00	68.20	155.33#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(37) Methacrylonitrile

5.056min (-0.012) 0.27 ug/L

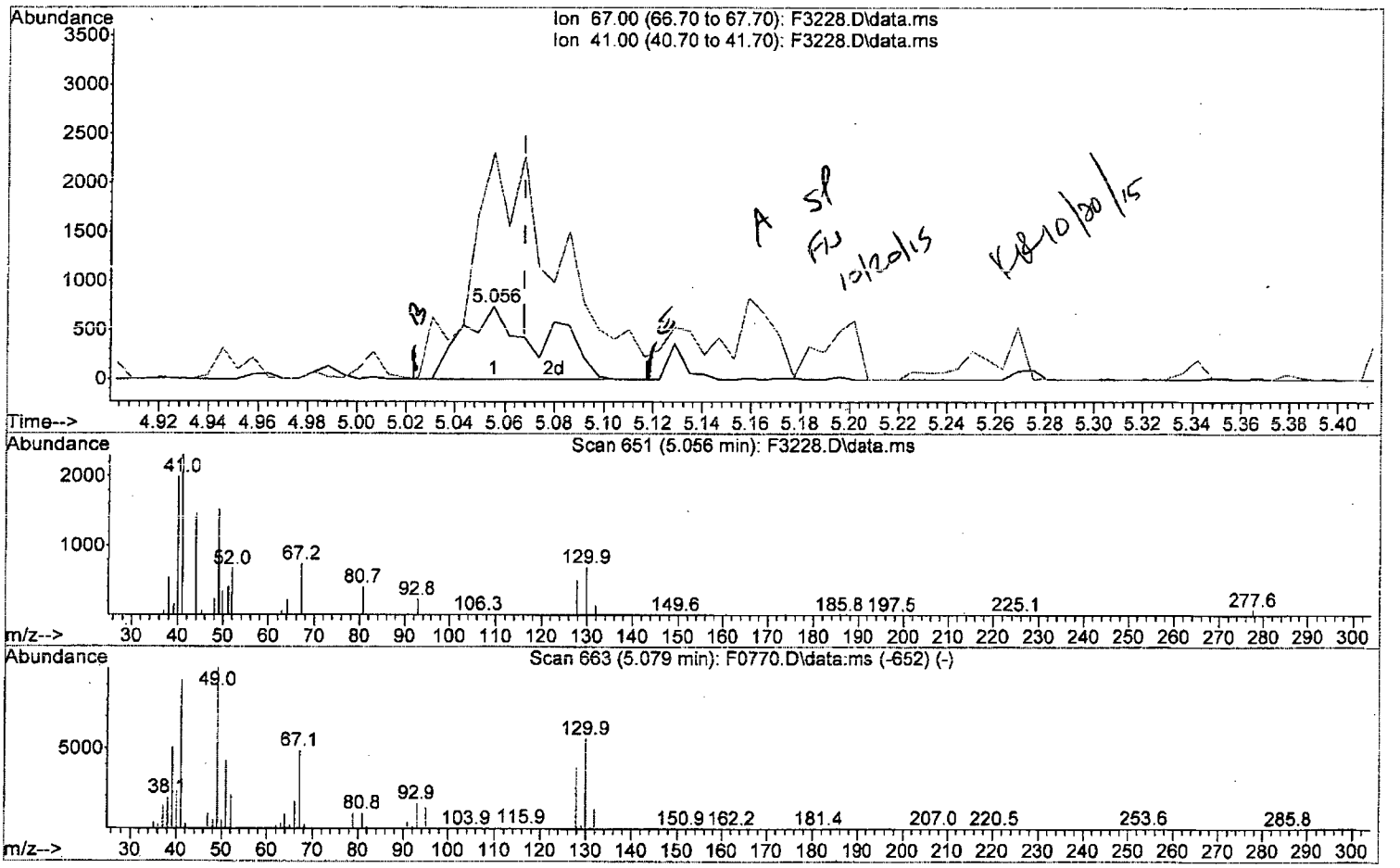
response 1148

Ion	Exp%	Act%
67.00	100	100
41.00	191.80	311.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(37) Methacrylonitrile

5.056min (-0.012) 0.39 ug/L m

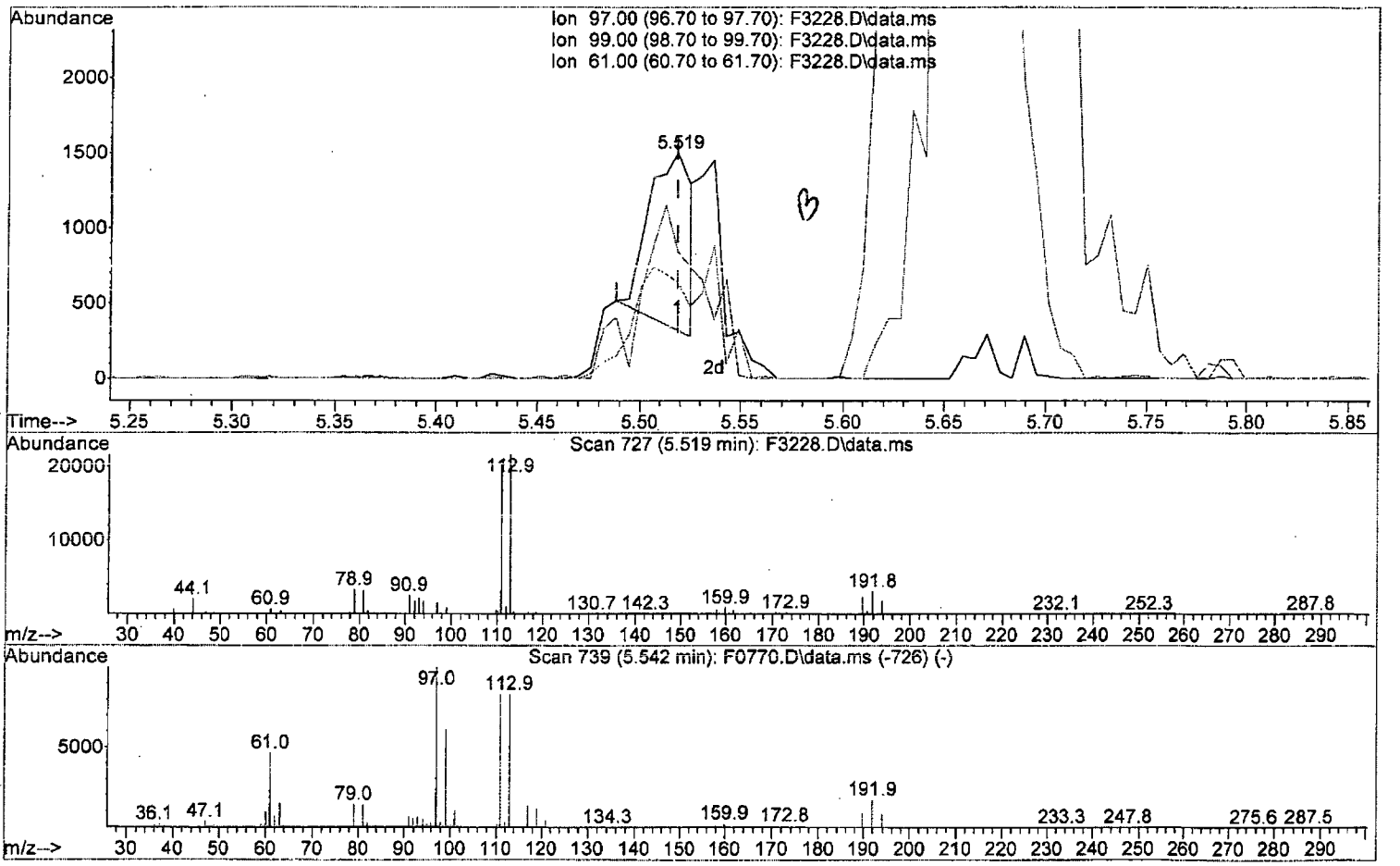
response 1648

Ion	Exp%	Act%
67.00	100	100
41.00	191.80	311.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.519min (-0.000) 0.22 ug/L

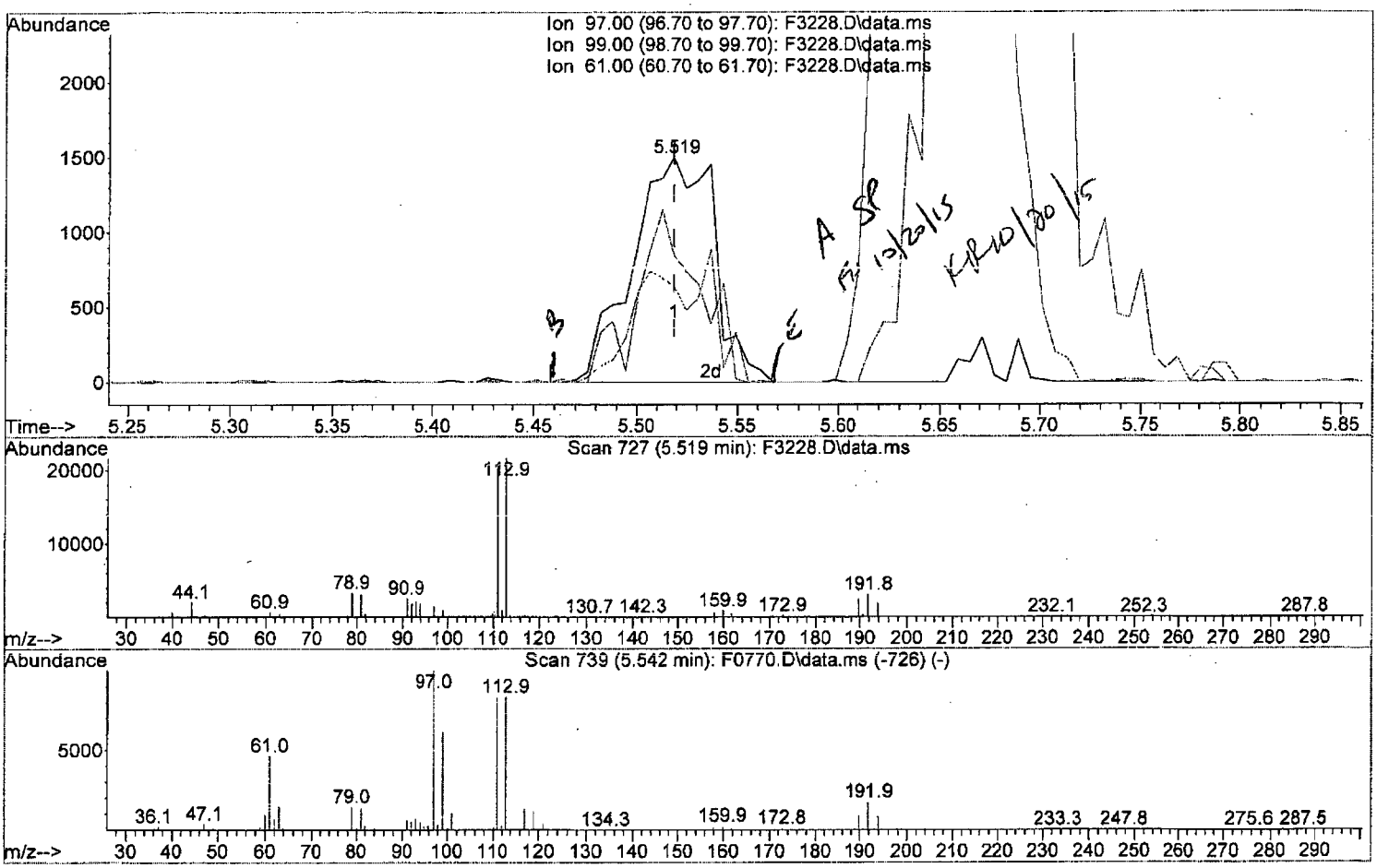
response 1656

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	56.02
61.00	46.40	42.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.519min (-0.000) 0.56 ug/L m

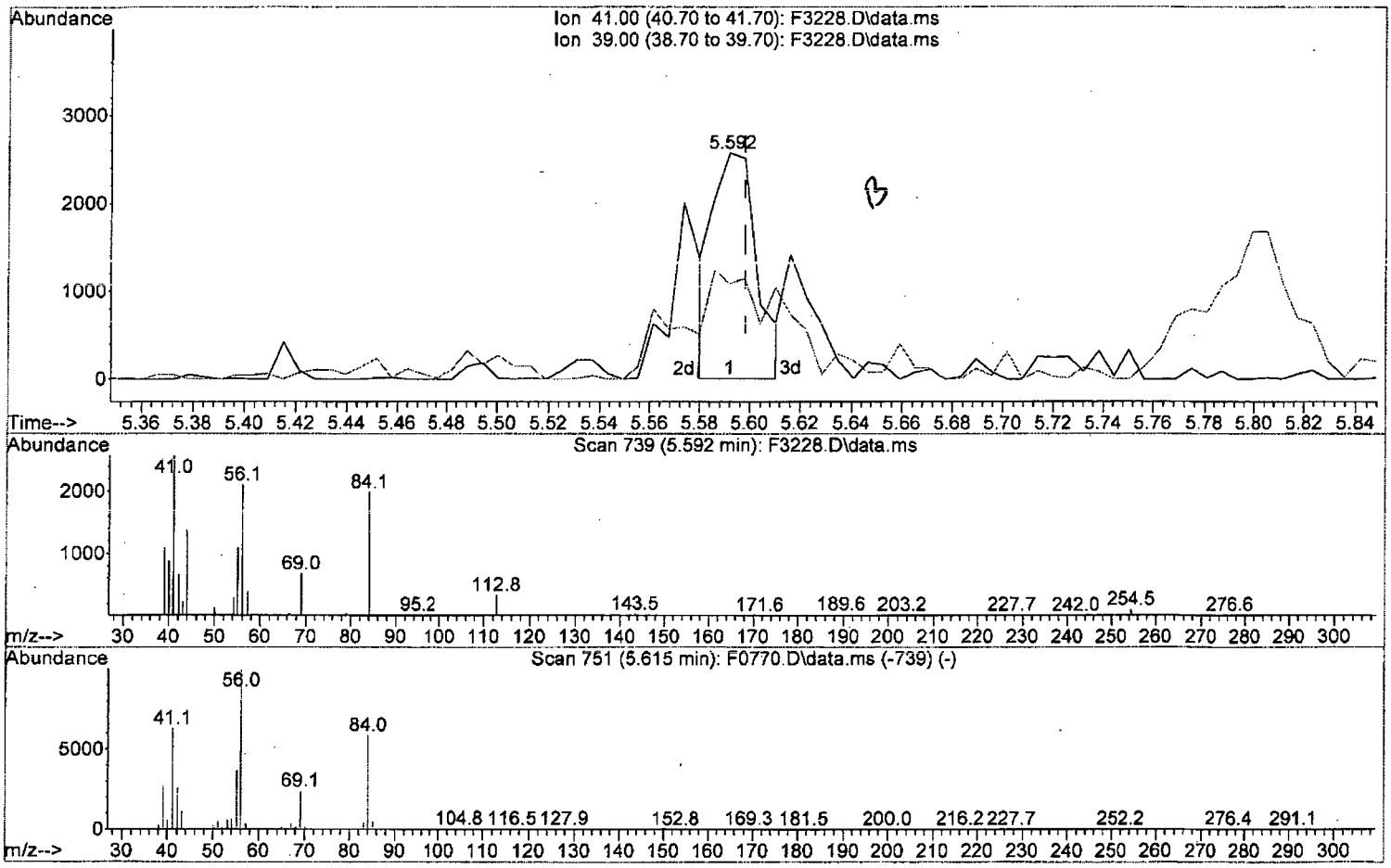
response 4223

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	56.02
61.00	46.40	42.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(42) Cyclohexane (P)

5.592min (-0.006) 0.32 ug/L

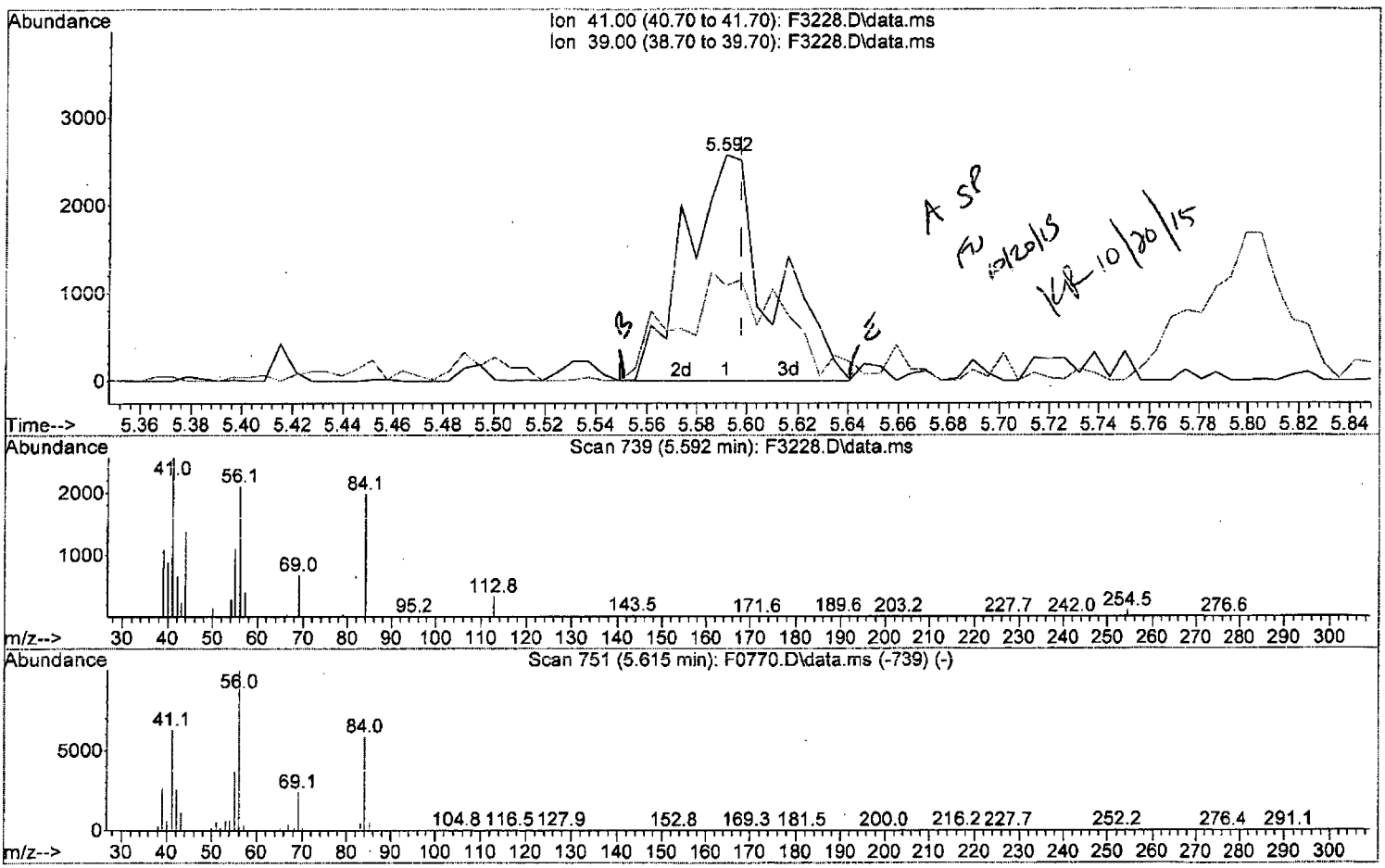
response 3137

Ion	Exp%	Act%
41.00	100	100
39.00	42.40	42.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(42) Cyclohexane (P)

5.592min (-0.006) 0.62 ug/L m

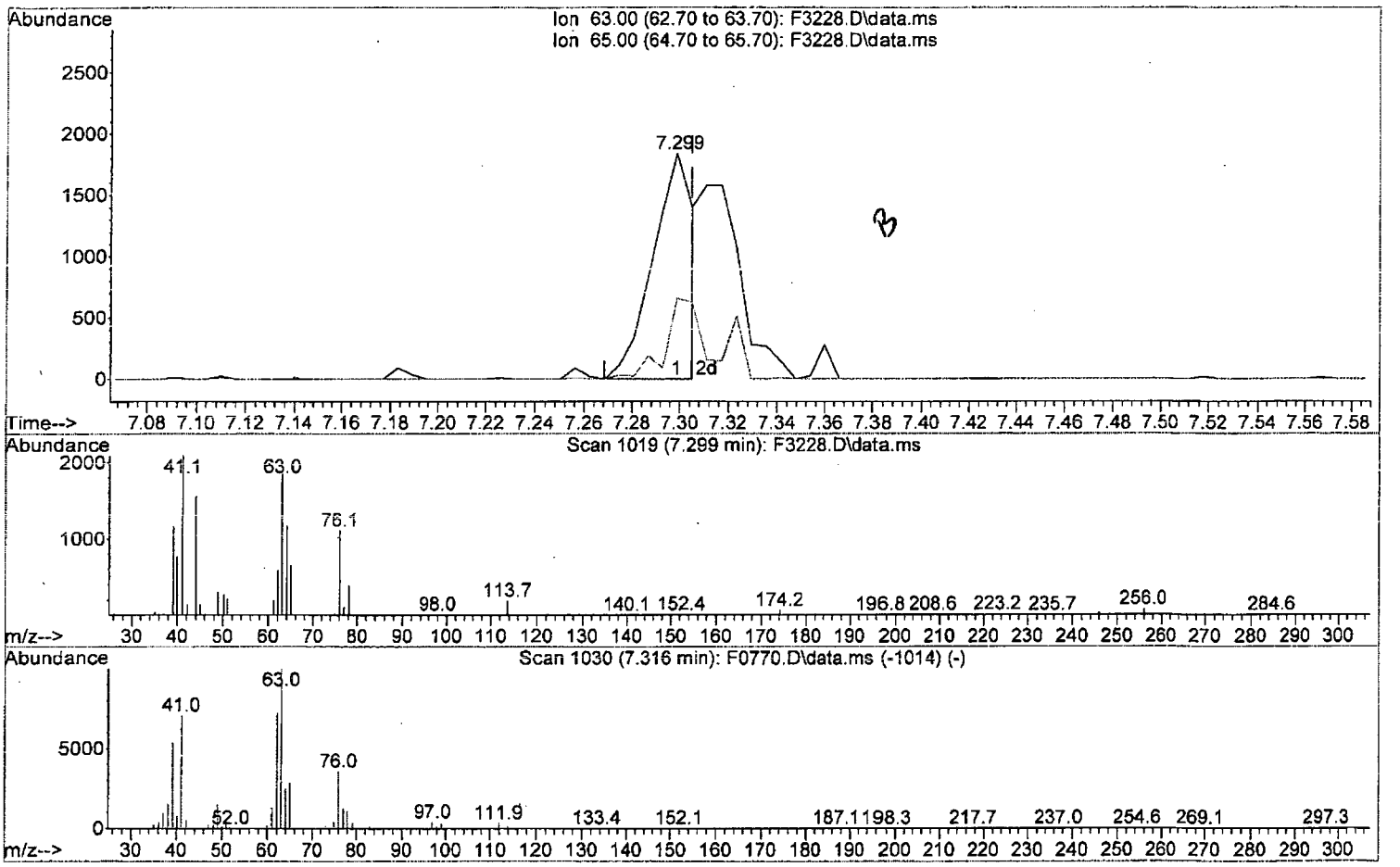
response 5954

Ion	Exp%	Act%
41.00	100	100
39.00	42.40	42.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(55) 1,2-Dichloropane (P)

7.299min (-0.006) 0.30 ug/L

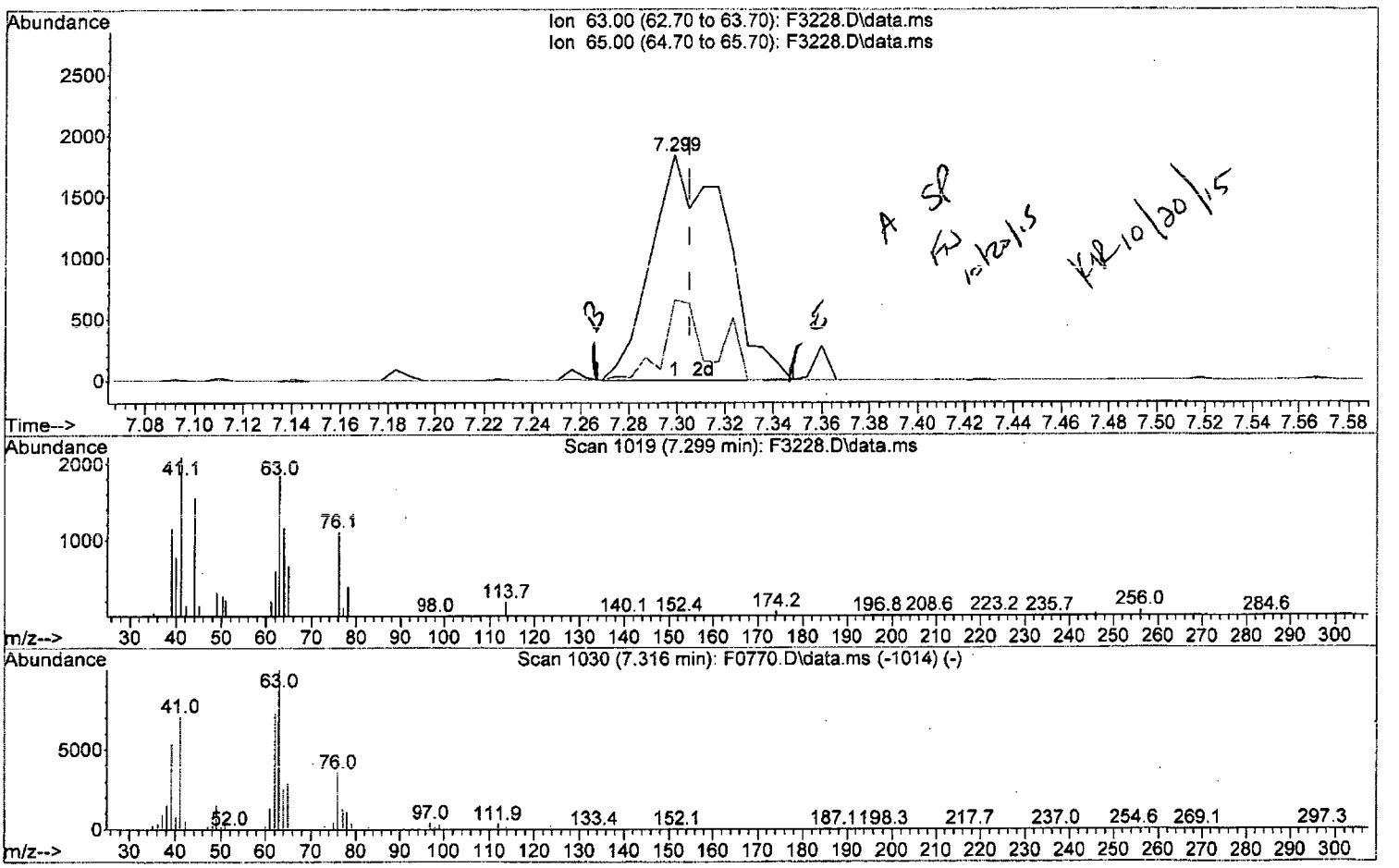
response 2148

Ion	Exp%	Act%
63.00	100	100
65.00	28.60	35.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(55) 1,2-Dichlpropane (P)

7.299min (-0.006) 0.55 ug/L m

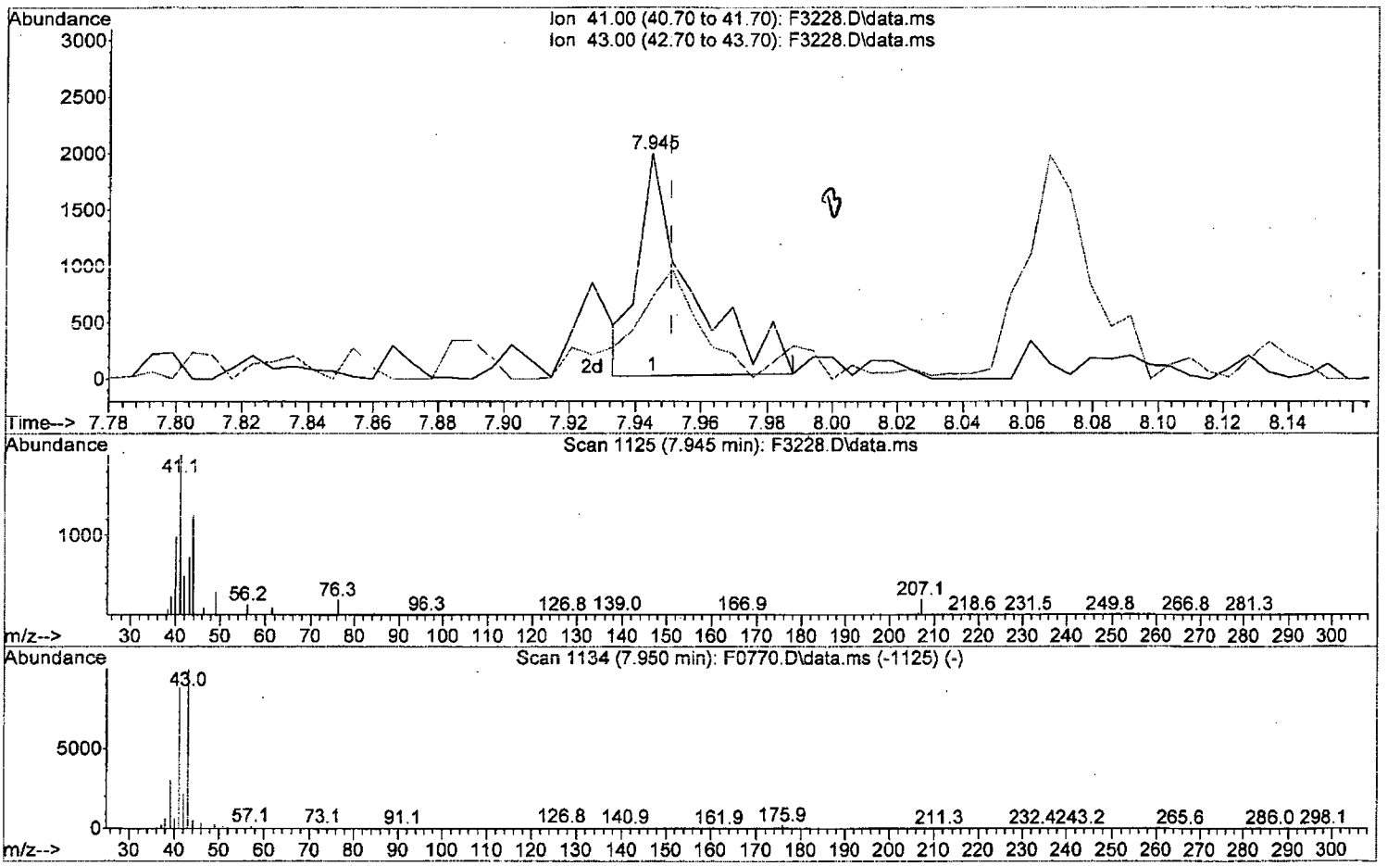
response 3948

Ion	Exp%	Act%
63.00	100	100
65.00	28.60	35.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(60) 2-Nitropropane

7.945min (-0.006) 1.15 ug/L

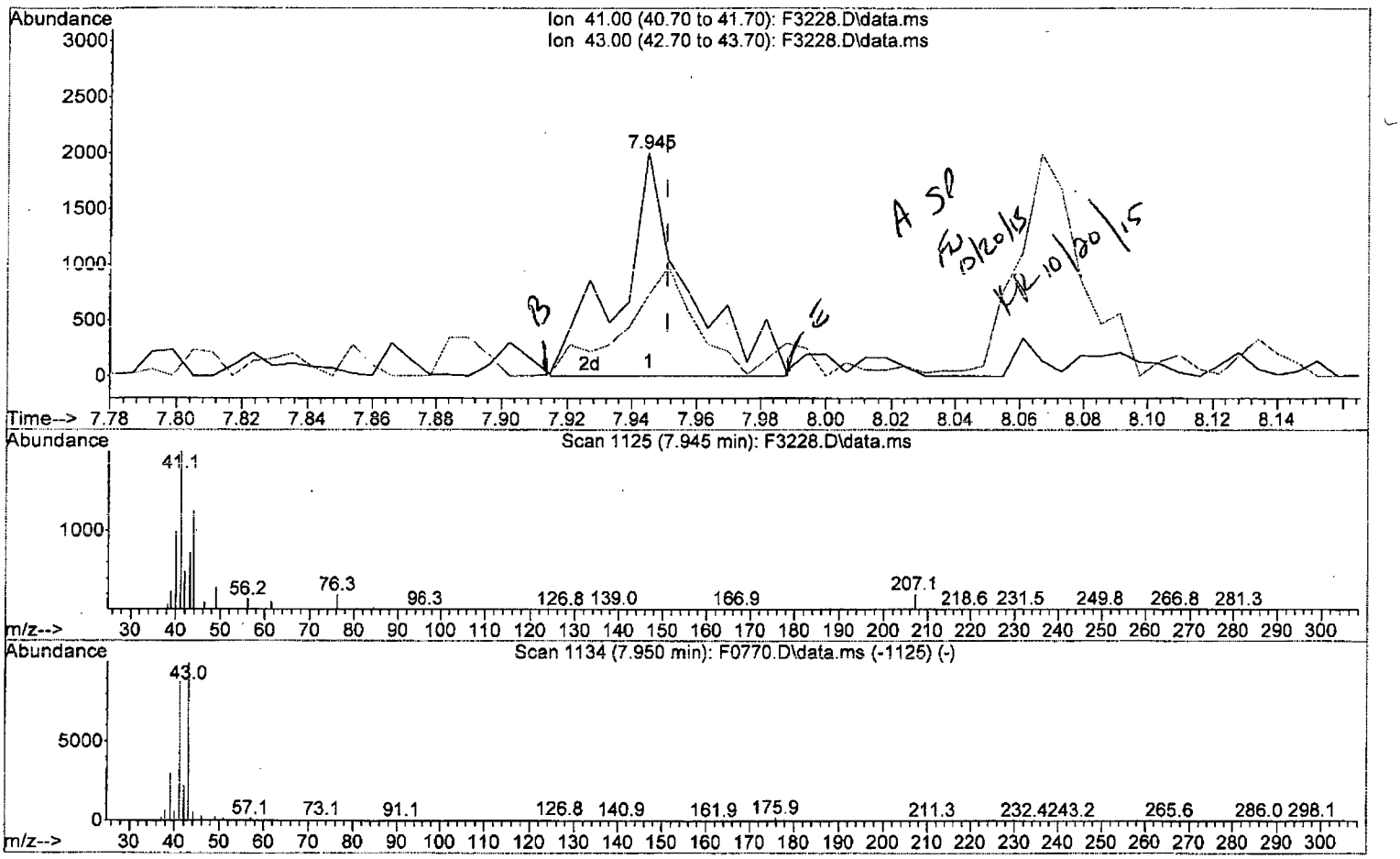
response 2154

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	36.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(60) 2-Nitropropane

7.945min (-0.006) 1.56 ug/L m

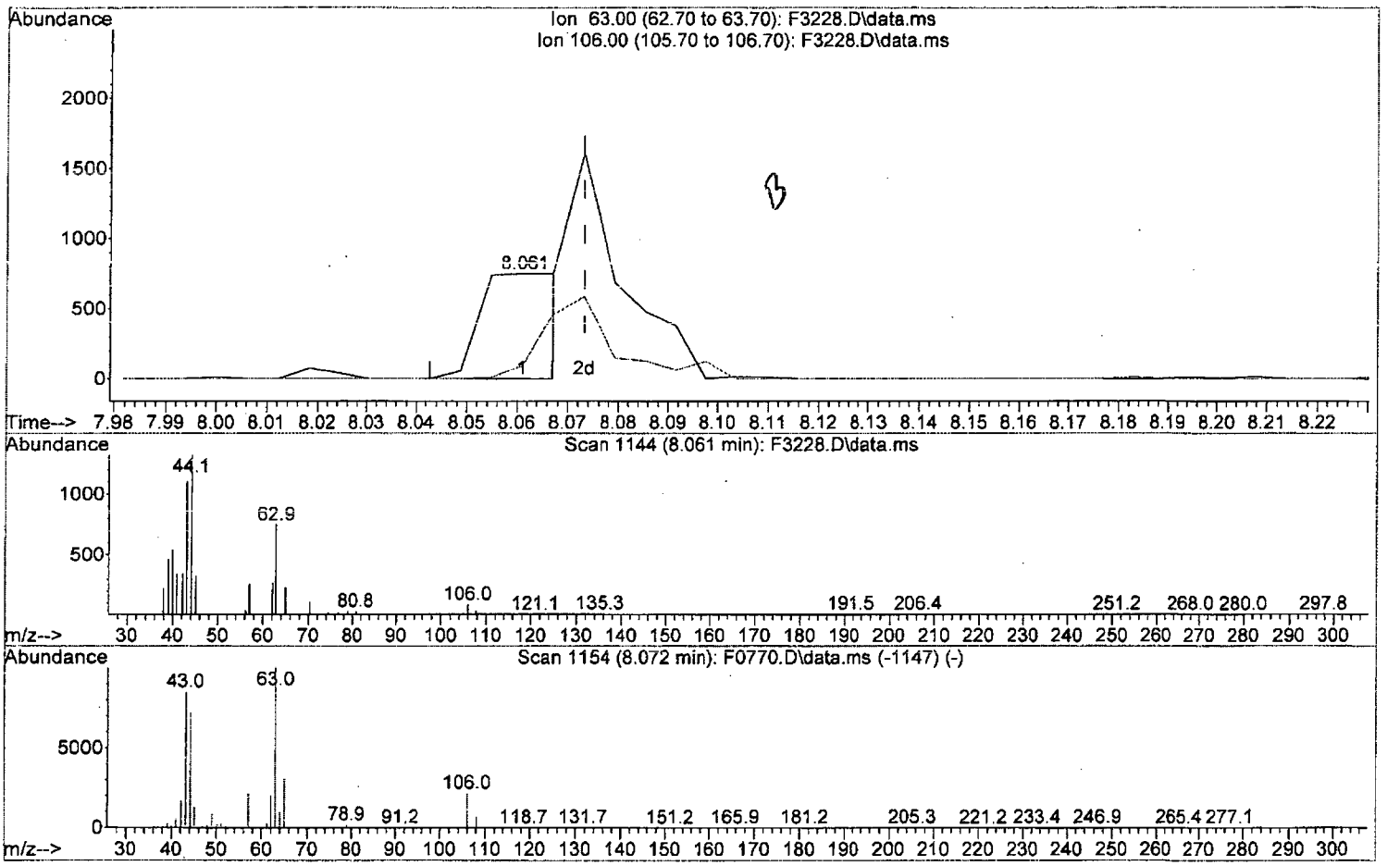
response 2906

Ion	Exp%	Act%
41.00	100	100
43.00	113.90	36.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(61) 2-Chloroethylvinyl Ether

8.061min (-0.012) 0.14 ug/L

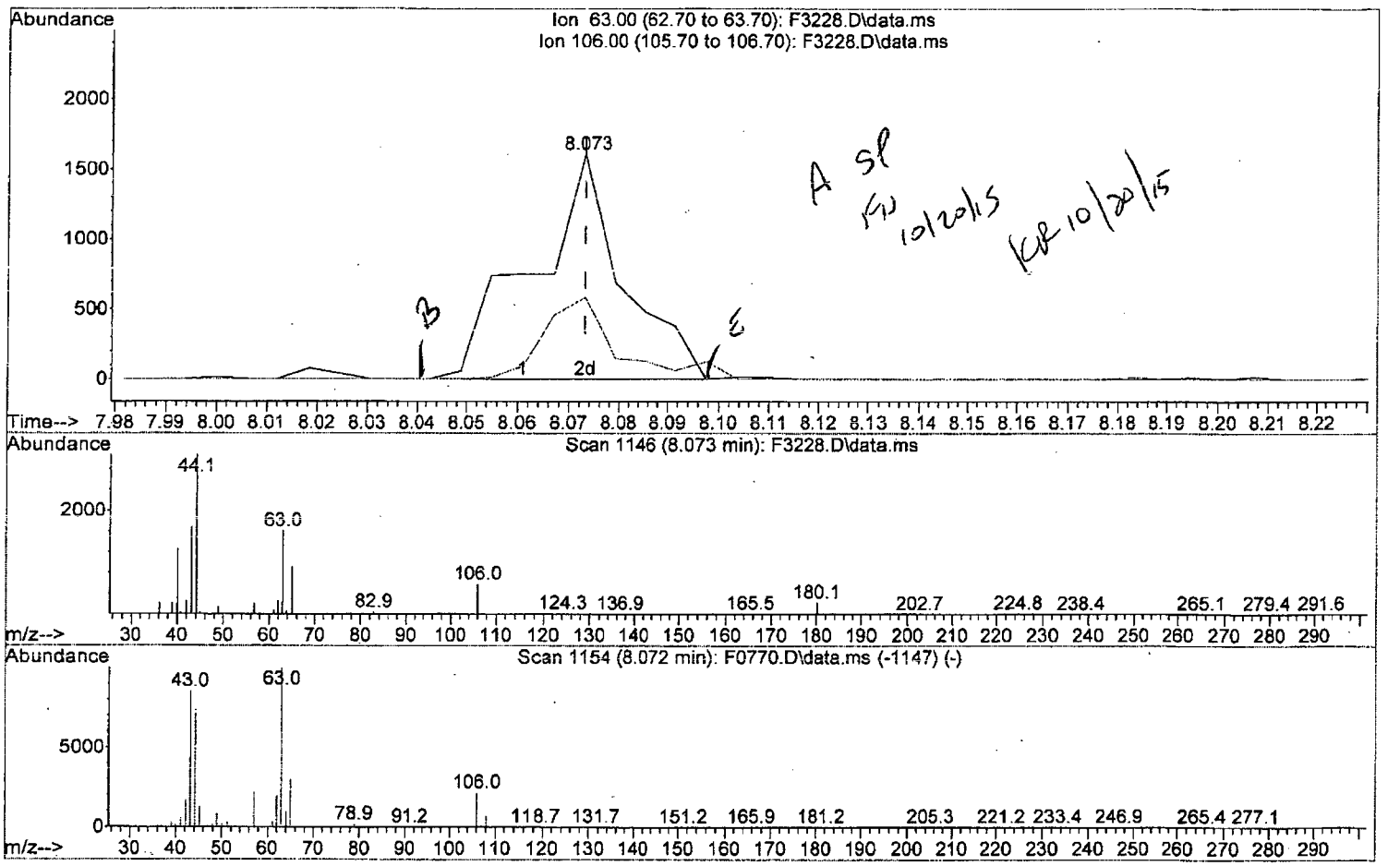
response 836

Ion	Exp%	Act%
63.00	100	100
106.00	21.70	12.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(61) 2-Chloroethylvinyl Ether

8.073min (-0.000) 0.33 ug/L m

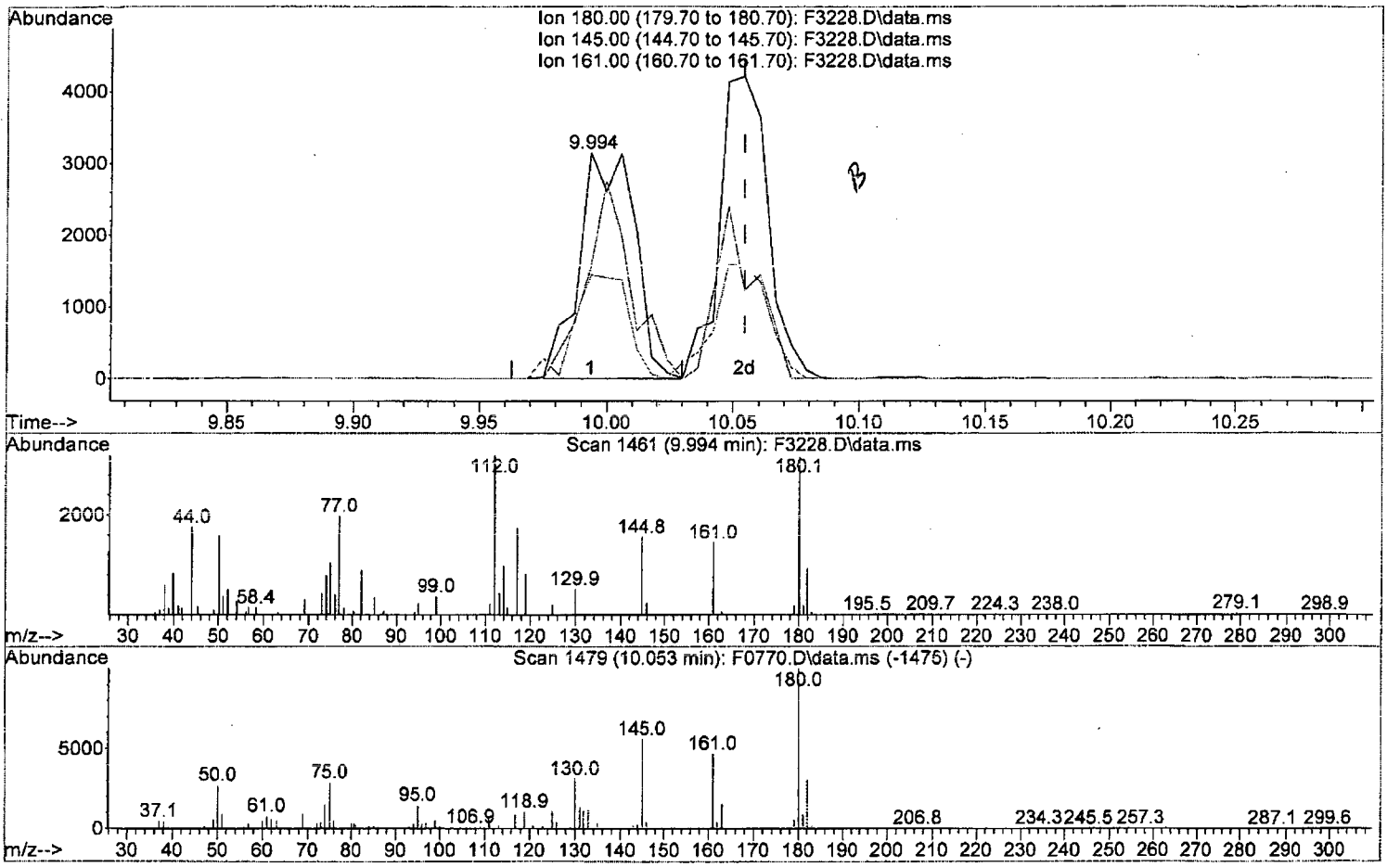
response 1987

Ion	Exp%	Act%
63.00	100	100
106.00	21.70	36.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(79) 4-Chlorobenzotrifluoride

9.994min (-0.061) 0.52 ug/L

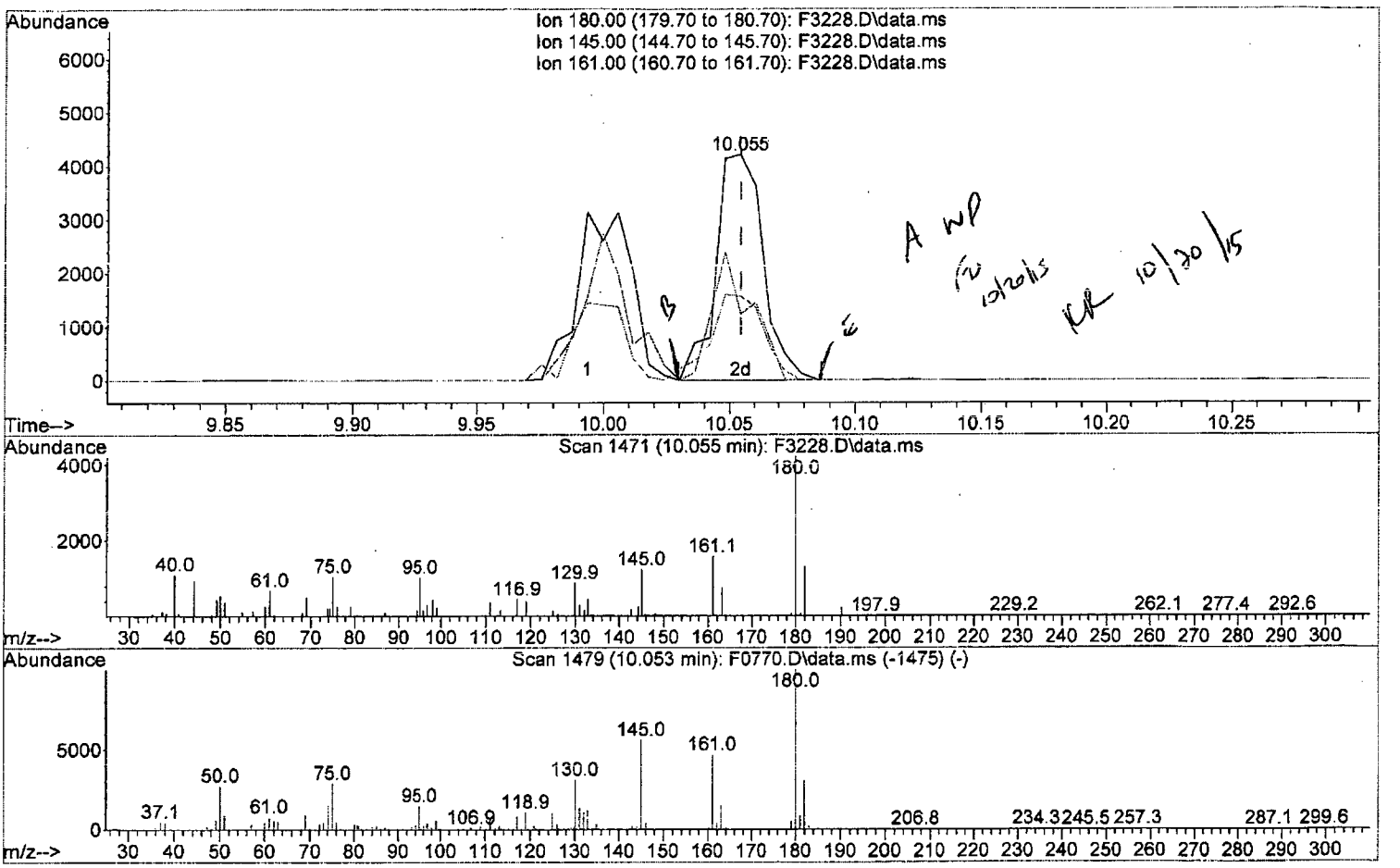
response 4747

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	49.49
161.00	46.60	45.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.055min (-0.000) 0.61 ug/L m

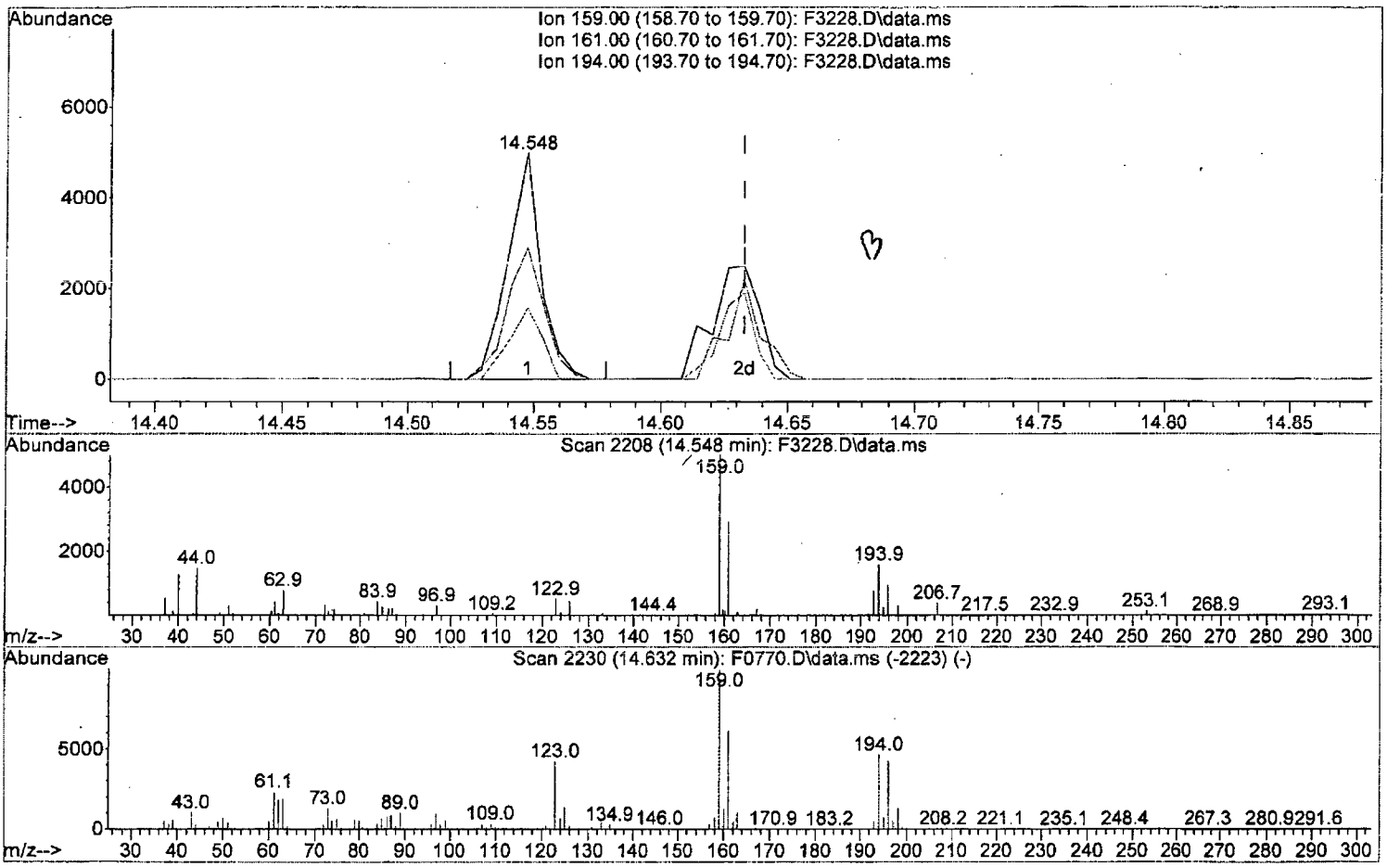
response 5536

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	29.26#
161.00	46.60	37.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.548min (-0.085) 0.60 ug/L

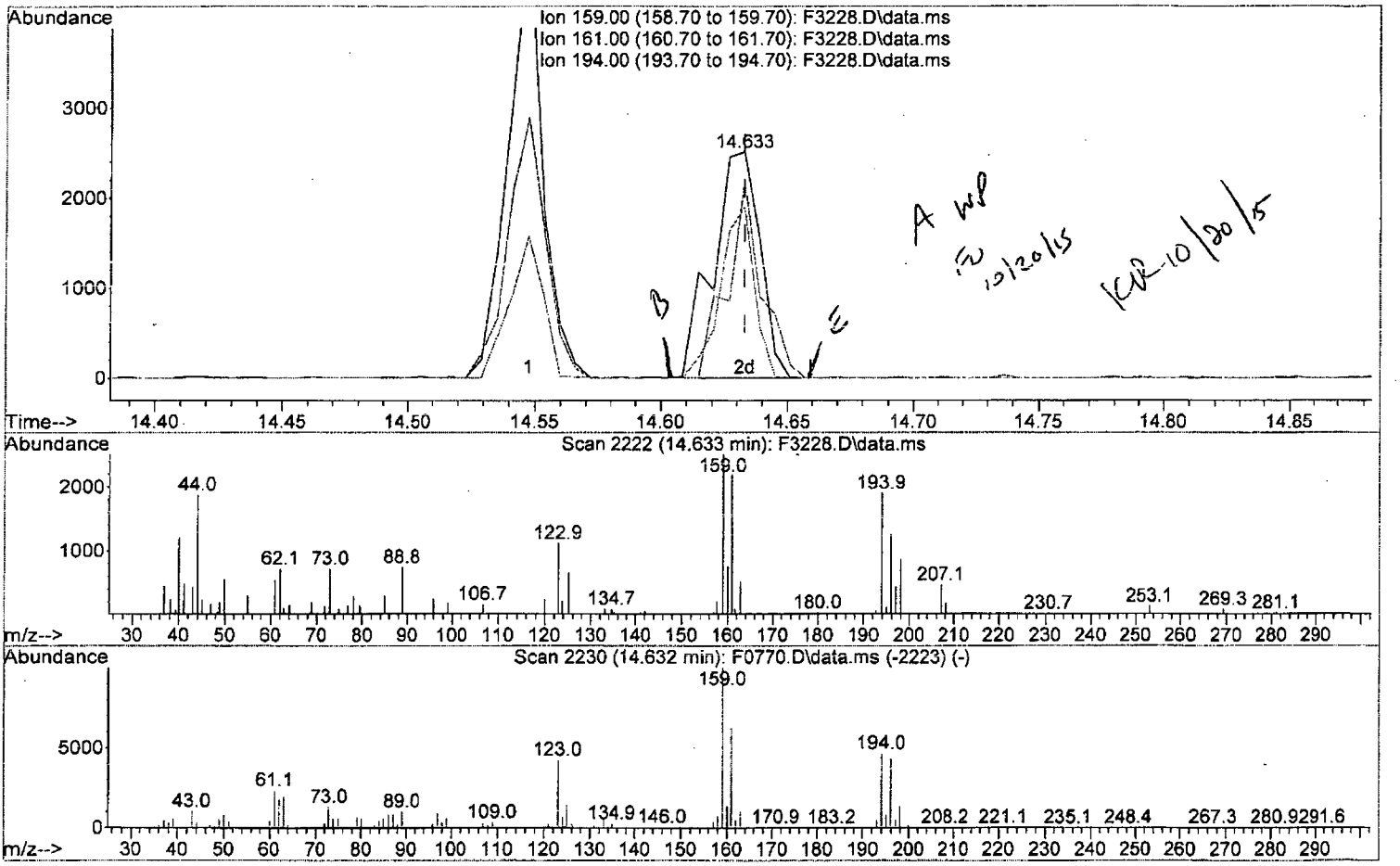
response 4470

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	56.42
194.00	46.40	30.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 09:59:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3228.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.633min (-0.000) 0.44 ug/L m

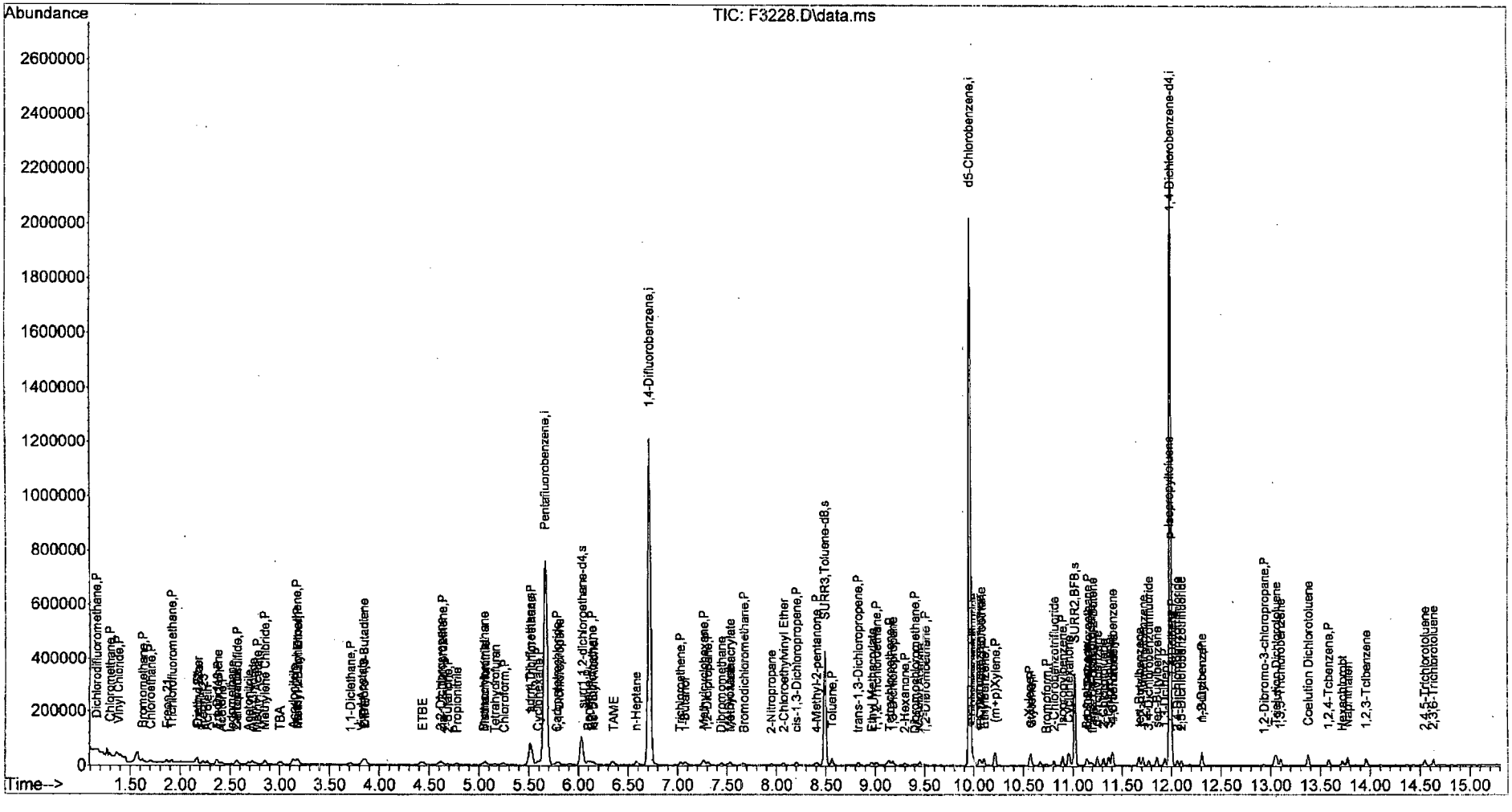
response 3270

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	87.39#
194.00	46.40	75.74#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3228.D
Acq On : 19 Oct 2015 6:23 pm
Operator : F. Naegler
Sample : 0.5 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 20 10:09:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:14:46 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FU 10/20/15
KB 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	686645	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	963903	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	863056	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	456324	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	59310	10.03	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.06%#				
46) surr1,1,2-dichloroetha...	6.031	65	83030	10.44	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.88%#				
64) SURR3,Toluene-d8	8.488	98	250532	11.41	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 22.82%#				
69) SURR2,BFB	11.018	95	89802	10.24	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.48%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	9557	0.98	ug/L		83
3) Chloromethane	1.300	50	16014	0.97	ug/L		92
4) Vinyl Chloride	1.380	62	11715	1.02	ug/L		81
5) Bromomethane	1.623	94	6335	1.26	ug/L		100
6) Chloroethane	1.703	64	5176	0.91	ug/L		95
7) Freon 21	1.867	67	11976	0.90	ug/L		87
8) Trichlorofluoromethane	1.916	101	9184	0.93	ug/L		79
9) Diethyl Ether	2.172	59	8643	1.08	ug/L	#	77
10) Freon 123a	2.178	67	7563	0.92	ug/L		89
11) Freon 123	2.227	83	7980	0.94	ug/L		97
12) Acrolein	2.270	56	10175	4.28	ug/L		97
13) 1,1-Diclethene	2.373	96	5309	0.97	ug/L	#	66
14) Freon 113	2.373	101	5407	0.89	ug/L		93
15) Acetone	2.410	43	8099	1.31	ug/L		77
16) 2-Propanol	2.568	45	12978m	10.51	ug/L		
17) Iodomethane	2.501	142	1449	0.20	ug/L	#	41
18) Carbon Disulfide	2.562	76	15209	0.95	ug/L		97
19) Acetonitrile	2.684	40	7205m	3.99	ug/L		
20) Allyl Chloride	2.715	76	2786m	0.97	ug/L		
21) Methyl Acetate	2.757	43	11560	0.91	ug/L		92
22) Methylene Chloride	2.849	84	6232	0.87	ug/L		94
23) TBA	3.007	59	18943	12.99	ug/L		94
24) Acrylonitrile	3.129	53	25527	4.41	ug/L		100
25) Methyl-t-Butyl Ether	3.178	73	19563	0.88	ug/L		95
26) trans-1,2-Dichloroethene	3.166	96	5846	0.95	ug/L		89
27) 1,1-Diclethane	3.702	63	12086	0.99	ug/L		78
28) Vinyl Acetate	3.824	86	768	0.57	ug/L	#	6
29) DIPE	3.855	45	35191	0.96	ug/L		76
30) 2-Chloro-1,3-Butadiene	3.842	53	13932	0.90	ug/L		92
31) ETBE	4.434	59	19721	0.88	ug/L		85
32) 2,2-Dichloropropane	4.605	77	5699m	0.95	ug/L		
33) cis-1,2-Dichloroethene	4.617	96	7324m	1.20	ug/L		
34) 2-Butanone	4.708	43	7794	0.89	ug/L		97
35) Propionitrile	4.781	54	11015	4.84	ug/L		83

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:14:46 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.050	130	4924m	1.22 ug/L		
37) Methacrylonitrile	5.062	67	4172	0.98 ug/L		100
38) Tetrahydrofuran	5.153	42	5804	1.02 ug/L		67
39) Chloroform	5.239	83	11765	1.08 ug/L		81
40) 1,1,1-Trichloroethane	5.507	97	7008m	0.91 ug/L		
42) Cyclohexane	5.598	41	10468m	1.09 ug/L		
44) Carbontetrachloride	5.775	121	1922m	0.90 ug/L		
45) 1,1-Dichloropropene	5.793	75	8186	0.97 ug/L		89
47) Benzene	6.104	78	23838	0.93 ug/L	#	80
48) 1,2-Dichloroethane	6.141	62	9656	0.88 ug/L		98
49) Iso-Butyl Alcohol	6.141	43	8859	10.70 ug/L		93
50) TAME	6.342	73	16468	0.89 ug/L		94
51) n-Heptane	6.592	43	13763	1.00 ug/L		74
52) 1-Butanol	7.080	56	8487	22.24 ug/L		84
53) Trichloroethene	7.025	130	5821	0.88 ug/L	#	69
54) Methylcyclohexane	7.263	55	11770	1.02 ug/L	#	81
55) 1,2-Diclpropane	7.299	63	7365	1.03 ug/L		80
56) Dibromomethane	7.445	93	4170	1.01 ug/L		88
57) 1,4-Dioxane	7.506	88	3078	18.74 ug/L	#	58
58) Methyl Methacrylate	7.531	69	5089	0.86 ug/L		93
59) Bromodichloromethane	7.665	83	6161	0.81 ug/L		92
60) 2-Nitropropane	7.939	41	2750	1.48 ug/L	#	79
61) 2-Chloroethylvinyl Ether	8.067	63	5203	0.88 ug/L		93
62) cis-1,3-Dichloropropene	8.201	75	7573	0.83 ug/L		85
63) 4-Methyl-2-pentanone	8.403	43	13494	0.84 ug/L		77
65) Toluene	8.567	91	25433	0.96 ug/L		87
66) trans-1,3-Dichloropropene	8.829	75	6321	0.81 ug/L		89
67) Ethyl Methacrylate	8.963	69	6670	0.70 ug/L	#	74
68) 1,1,2-Trichloroethane	9.018	97	6005	0.97 ug/L	#	71
71) Tetrachloroethene	9.152	164	5545	1.04 ug/L	#	54
72) 2-Hexanone	9.299	43	9723	0.79 ug/L		79
73) 1,3-Dichloropropane	9.177	76	10695	0.99 ug/L		83
74) Dibromochloromethane	9.396	129	4780	0.80 ug/L	#	70
75) N-Butyl Acetate	9.451	43	12870	0.68 ug/L		87
76) 1,2-Dibromoethane	9.500	107	5566	0.92 ug/L	#	65
77) 3-Chlorobenzotrifluoride	10.000	180	10431	1.01 ug/L		93
78) Chlorobenzene	9.988	112	19441	1.07 ug/L		79
79) 4-Chlorobenzotrifluoride	10.055	180	7522m	0.80 ug/L		
80) 1,1,1,2-Tetrachloroethane	10.073	131	4486	0.80 ug/L	#	72
81) Ethylbenzene	10.103	106	9824	1.07 ug/L	#	69
82) (m+p)Xylene	10.213	106	22632	1.93 ug/L		92
83) o-Xylene	10.567	106	10722	0.92 ug/L		93
84) Styrene	10.579	104	19186	0.96 ug/L		77
85) Bromoform	10.731	173	3132	0.71 ug/L		73
86) 2-Chlorobenzotrifluoride	10.805	180	10617	1.03 ug/L		88
87) Isopropylbenzene	10.902	105	29266	0.96 ug/L		89
88) Cyclohexanone	10.957	55	33413	16.76 ug/L		99
89) trans-1,4-Dichloro-2-B...	11.207	53	2730	0.79 ug/L	#	57
91) 1,1,2,2-Tetrachloroethane	11.152	83	7429	0.80 ug/L		84
92) Bromobenzene	11.146	156	8142	1.06 ug/L	#	81
93) 1,2,3-Trichloropropane	11.176	110	2544	0.85 ug/L	#	85

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:14:46 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

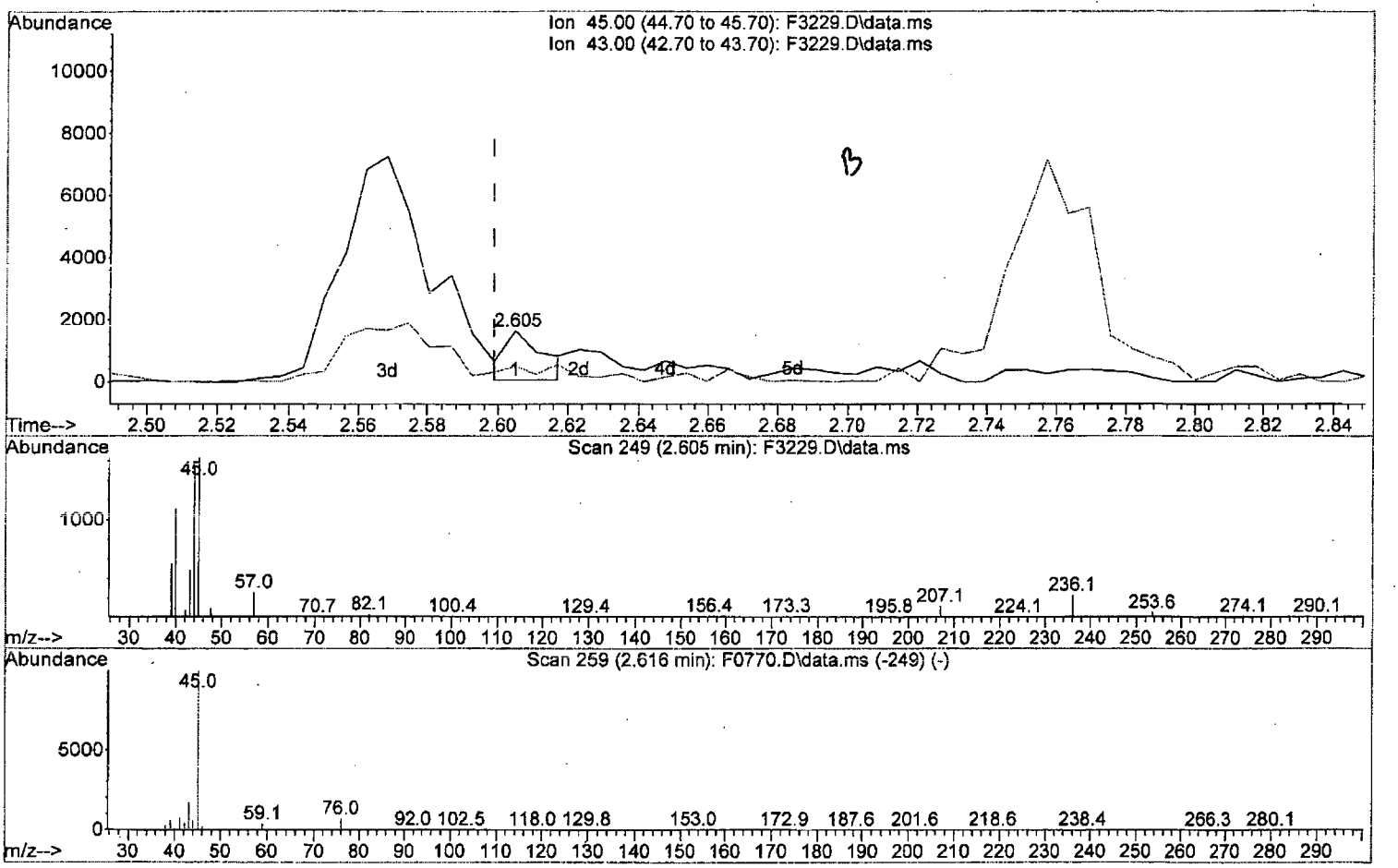
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.250	91	33735	0.99	ug/L		92
95)	2-Chlorotoluene	11.311	91	19238	0.97	ug/L		89
96)	3-Chlorotoluene	11.365	91	19715	0.95	ug/L		83
97)	4-Chlorotoluene	11.402	91	23144	0.98	ug/L		94
98)	1,3,5-Trimethylbenzene	11.402	105	22518	0.94	ug/L		99
99)	tert-Butylbenzene	11.676	119	19236	0.88	ug/L		88
100)	1,2,4-Trimethylbenzene	11.707	105	23920	0.97	ug/L		95
101)	3,4-Dichlorobenzotrifl...	11.768	214	8063	1.07	ug/L		85
102)	sec-Butylbenzene	11.853	105	30999	0.99	ug/L		96
103)	p-Isopropyltoluene	11.975	119	24758	0.98	ug/L		91
104)	1,3-Dclbenz	11.932	146	14513	1.00	ug/L		96
105)	1,4-Dclbenz	12.006	146	14841	1.01	ug/L		95
106)	2,4-Dichlorobenzotrifl...	12.060	214	6435	0.94	ug/L		92
107)	2,5-Dichlorobenzotrifl...	12.097	214	7559	0.97	ug/L	#	83
108)	n-Butylbenzene	12.304	91	22791	0.97	ug/L		90
109)	1,2-Dclbenz	12.310	146	13382	0.93	ug/L		95
110)	1,2-Dibromo-3-chloropr...	12.932	157	1273	0.65	ug/L	#	73
111)	Trielution Dichlorotol...	13.048	125	36358	2.75	ug/L		98
112)	1,3,5-Trichlorobenzene	13.097	180	11133	0.96	ug/L		87
113)	Coelution Dichlorotoluene	13.371	125	26979	1.82	ug/L		97
114)	1,2,4-Tcbenzene	13.585	180	10532	0.95	ug/L		95
115)	Hexachlorobt	13.725	225	3992	0.82	ug/L		83
116)	Naphthalen	13.773	128	31313	0.94	ug/L		90
117)	1,2,3-Tclbenzene	13.962	180	10887	0.96	ug/L		91
118)	2,4,5-Trichlorotoluene	14.548	159	7699	0.90	ug/L		93
119)	2,3,6-Trichlorotoluene	14.633	159	7061	0.90	ug/L		87

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(16) 2-Propanol

2.605min (+0.006) 0.96 ug/L

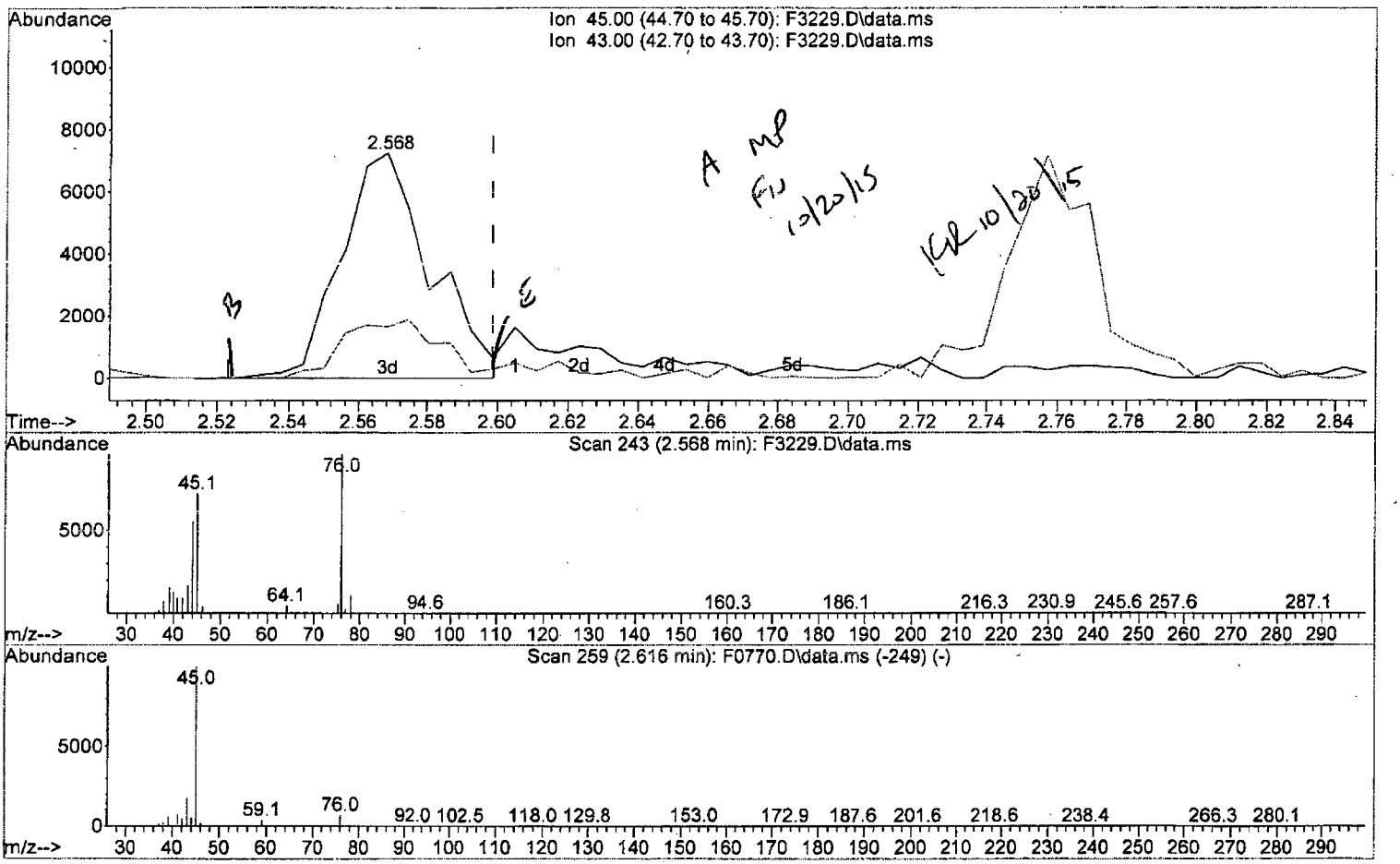
response 1183

Ion	Exp%	Act%
45.00	100	100
43.00	17.20	29.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(16) 2-Propanol

2.568min (-0.030) 10.51 ug/L m

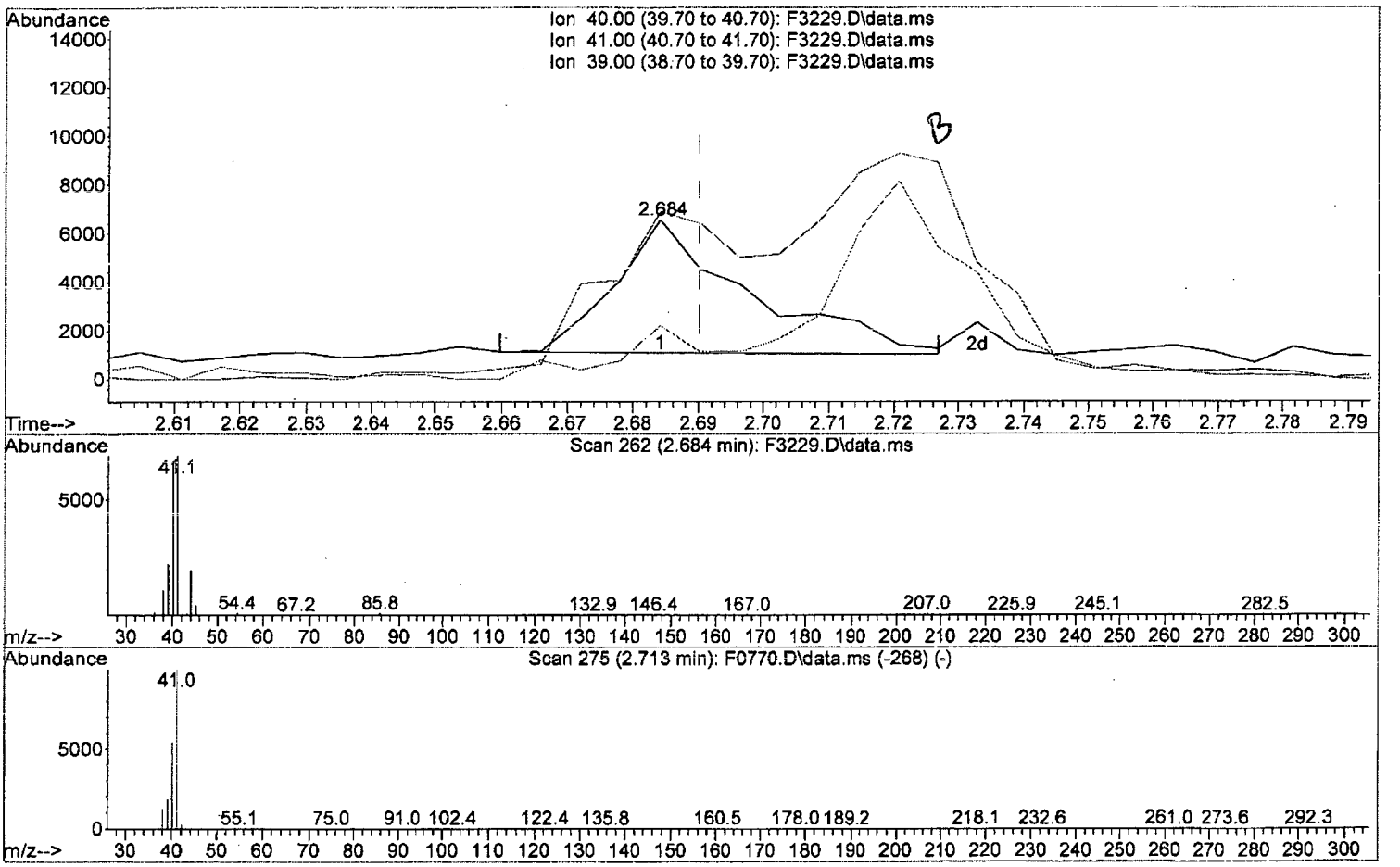
response 12978

Ion	Exp%	Act%
45.00	100	100
43.00	17.20	22.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 4.28 ug/L

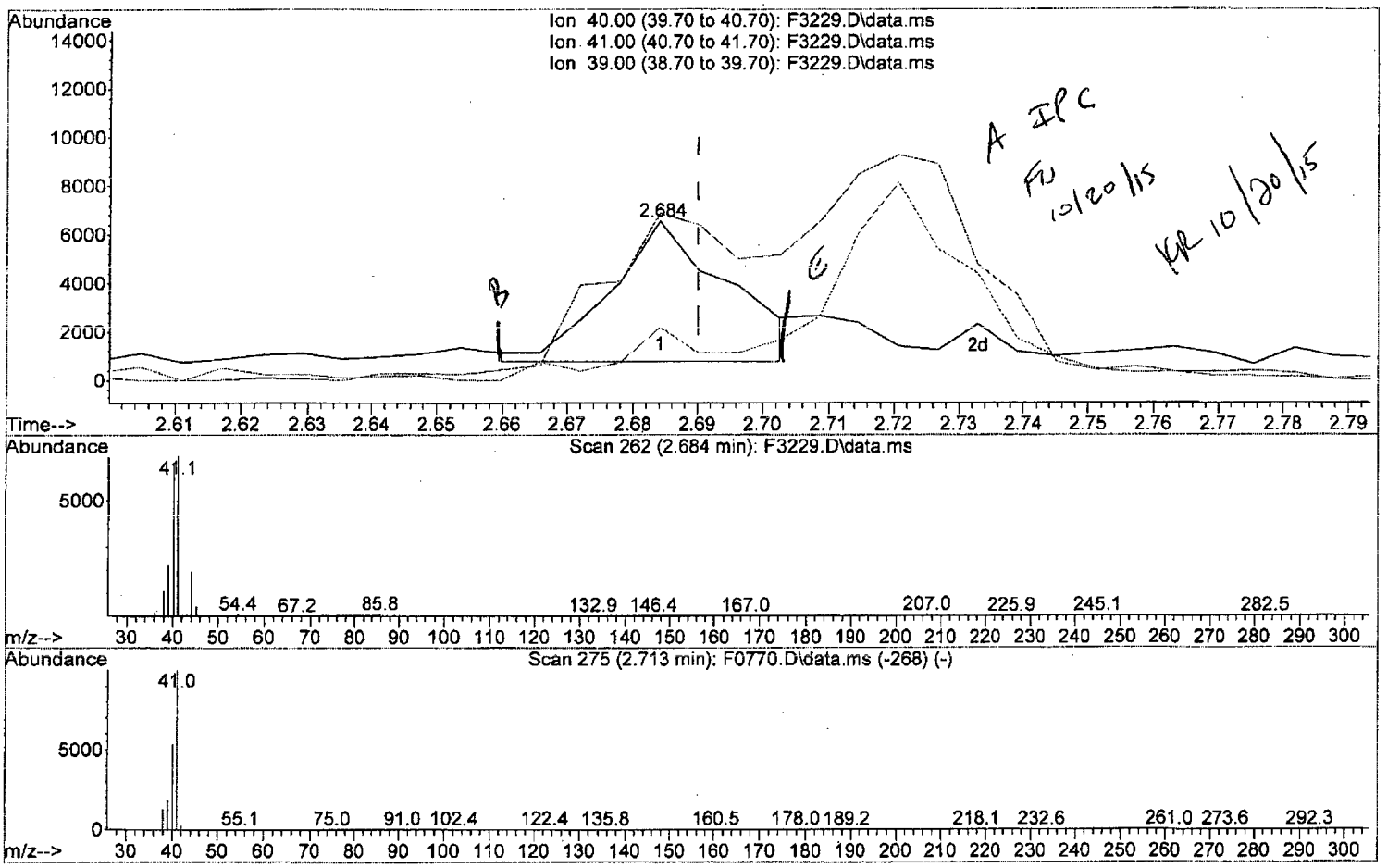
response 7731

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	105.24#
39.00	35.30	33.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 3.99 ug/L m

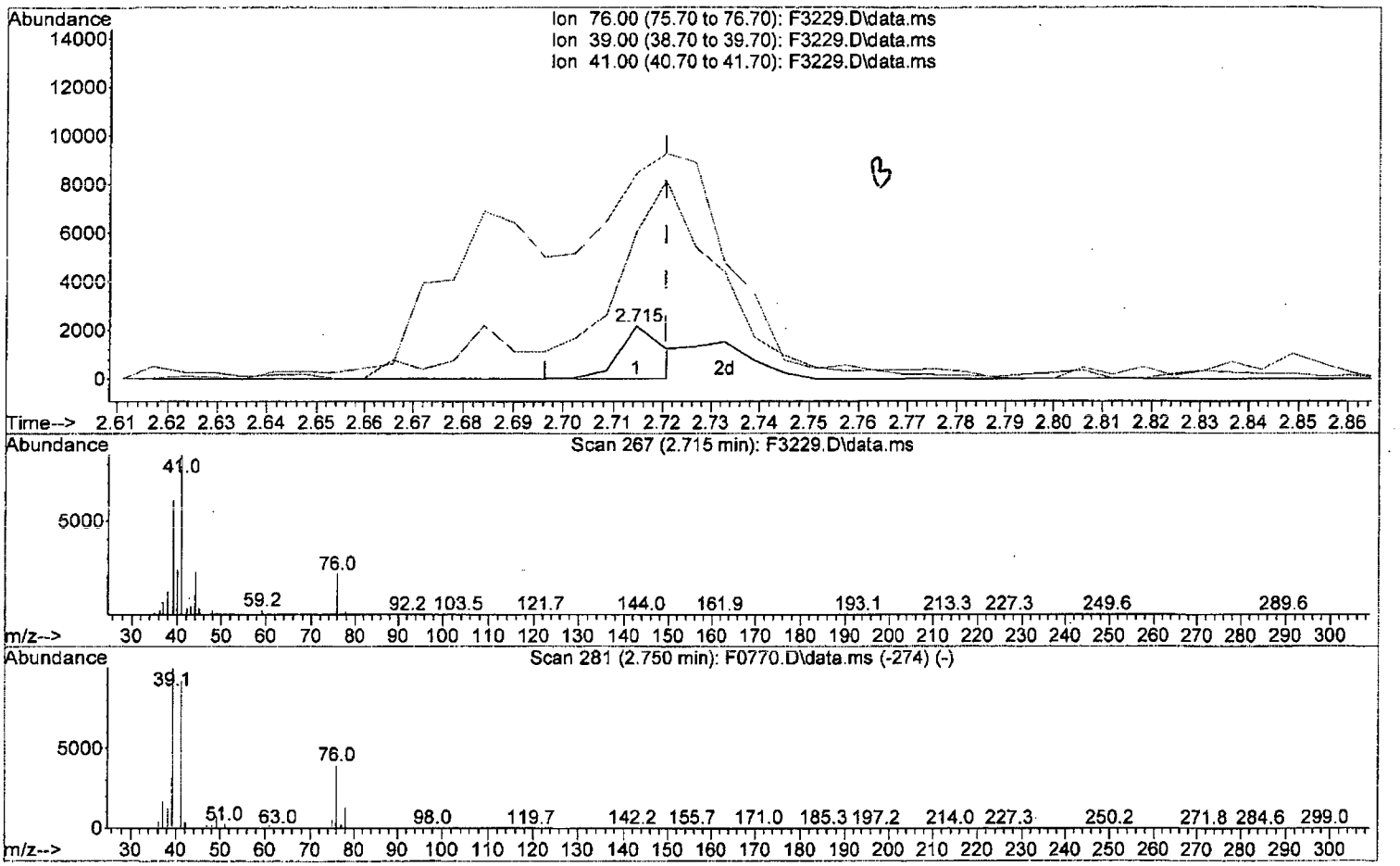
response 7205

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	105.24#
39.00	35.30	33.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(20) Allyl Chloride

2.715min (-0.006) 0.48 ug/L

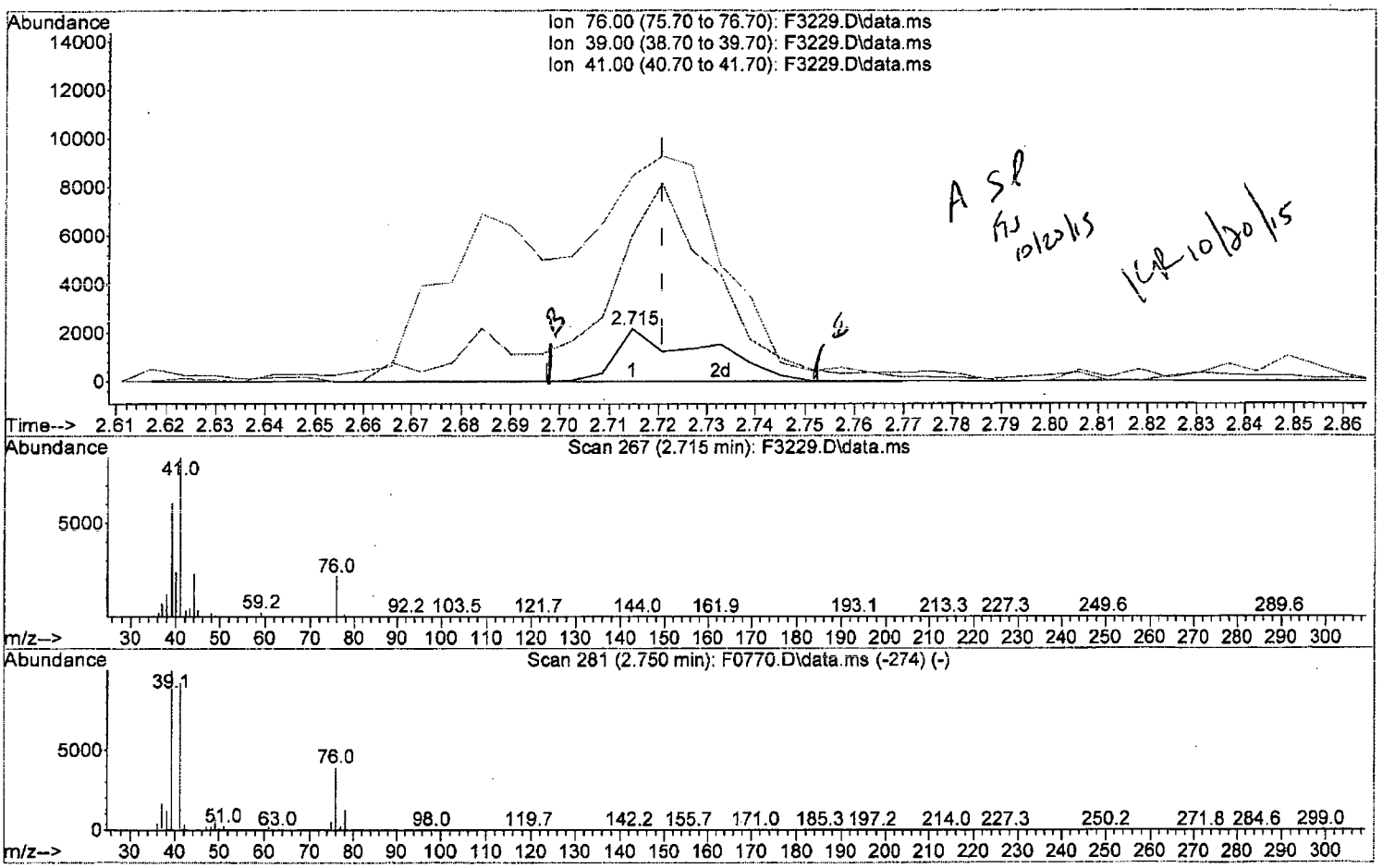
response 1371

Ion	Exp%	Act%
76.00	100	100
39.00	254.40	279.41#
41.00	234.50	391.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(20) Allyl Chloride

2.715min (-0.006) 0.97 ug/L m

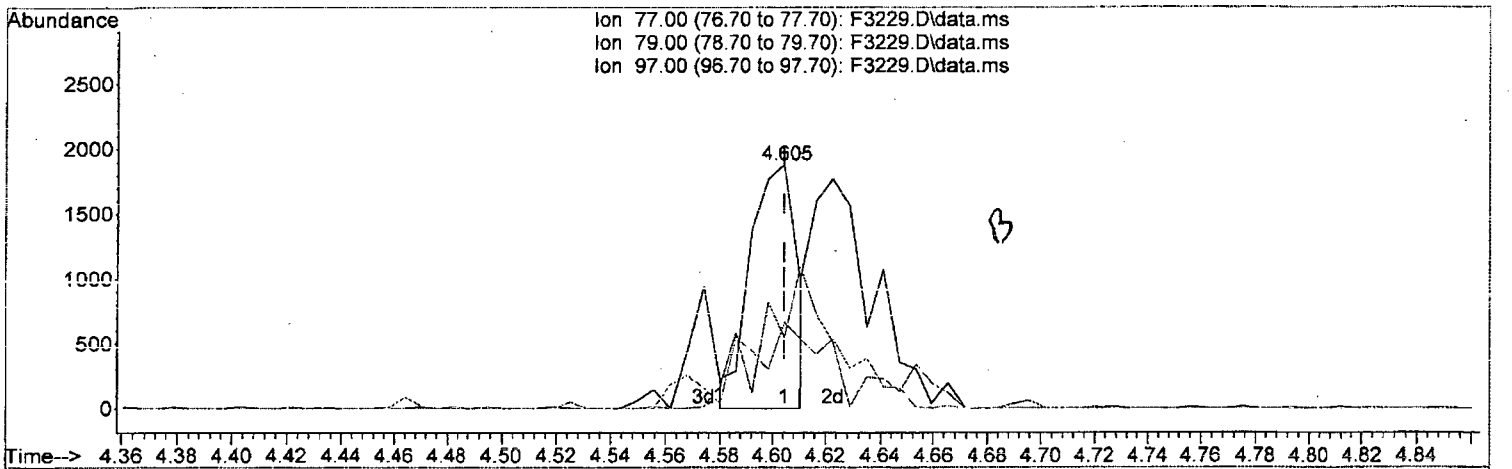
response 2786

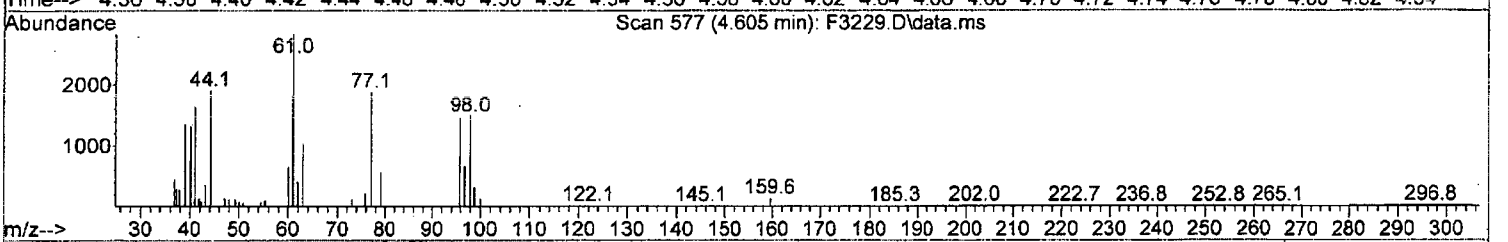
Ion	Exp%	Act%
76.00	100	100
39.00	254.40	279.41#
41.00	234.50	391.72#
0.00	0.00	0.00

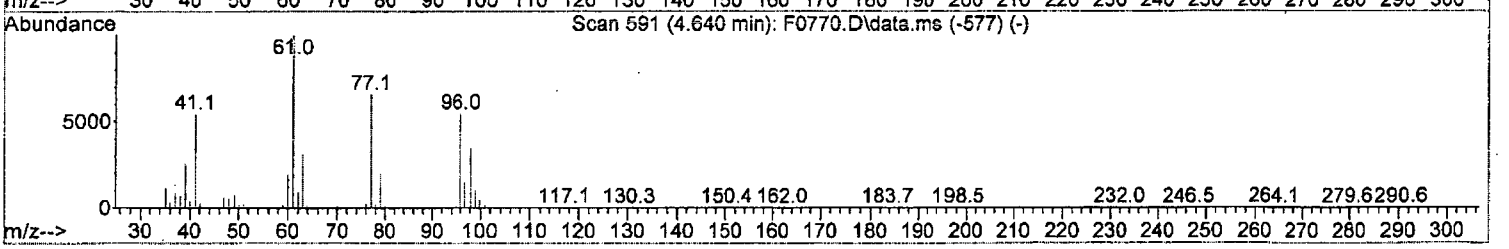
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3229.D\data.ms

(32) 2,2-Dichloropropane

4.605min (+0.000) 0.38 ug/L

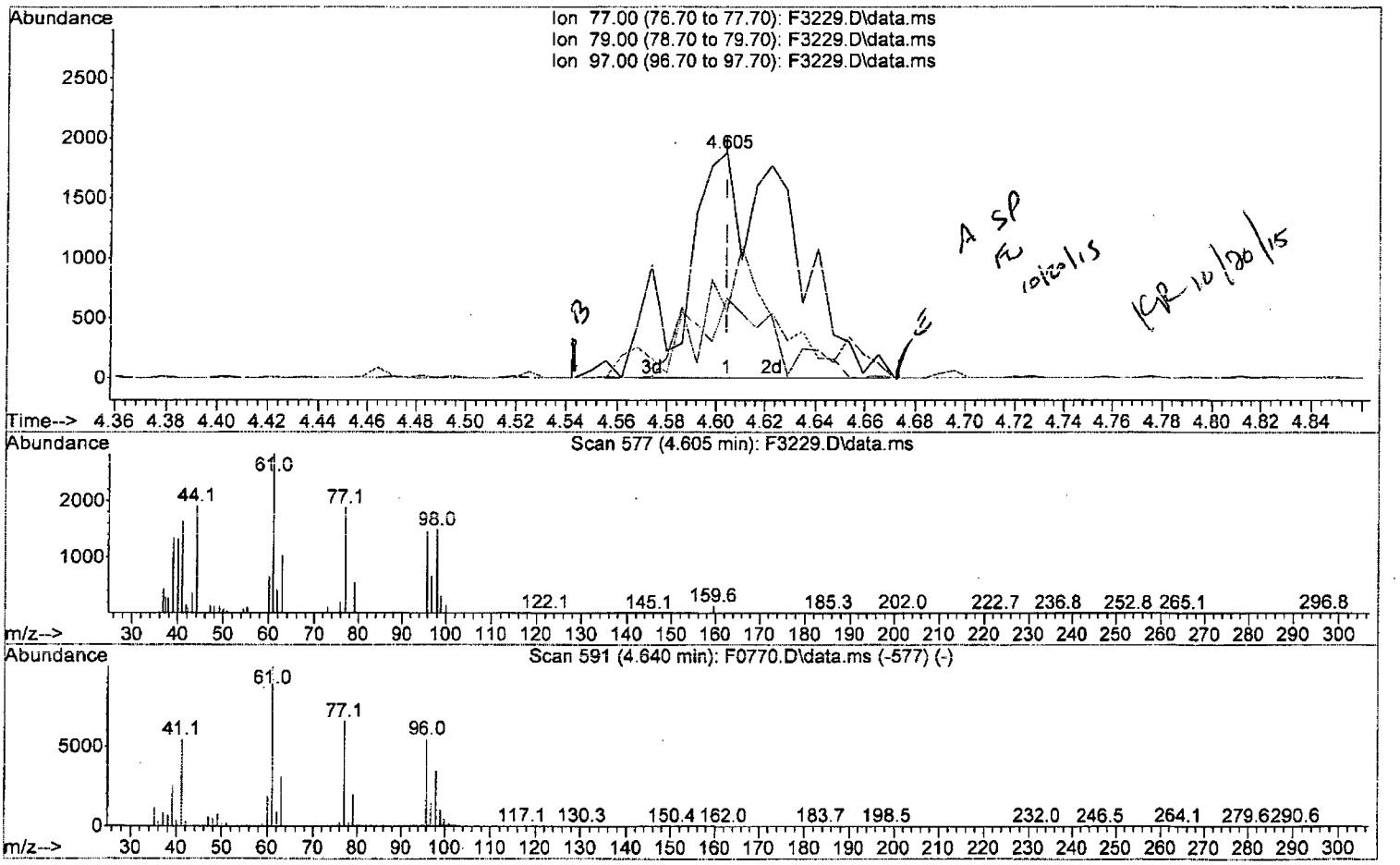
response 2297

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	29.23
97.00	22.40	35.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(32) 2,2-Dichloropropane

4.605min (+0.000) 0.95 ug/L m

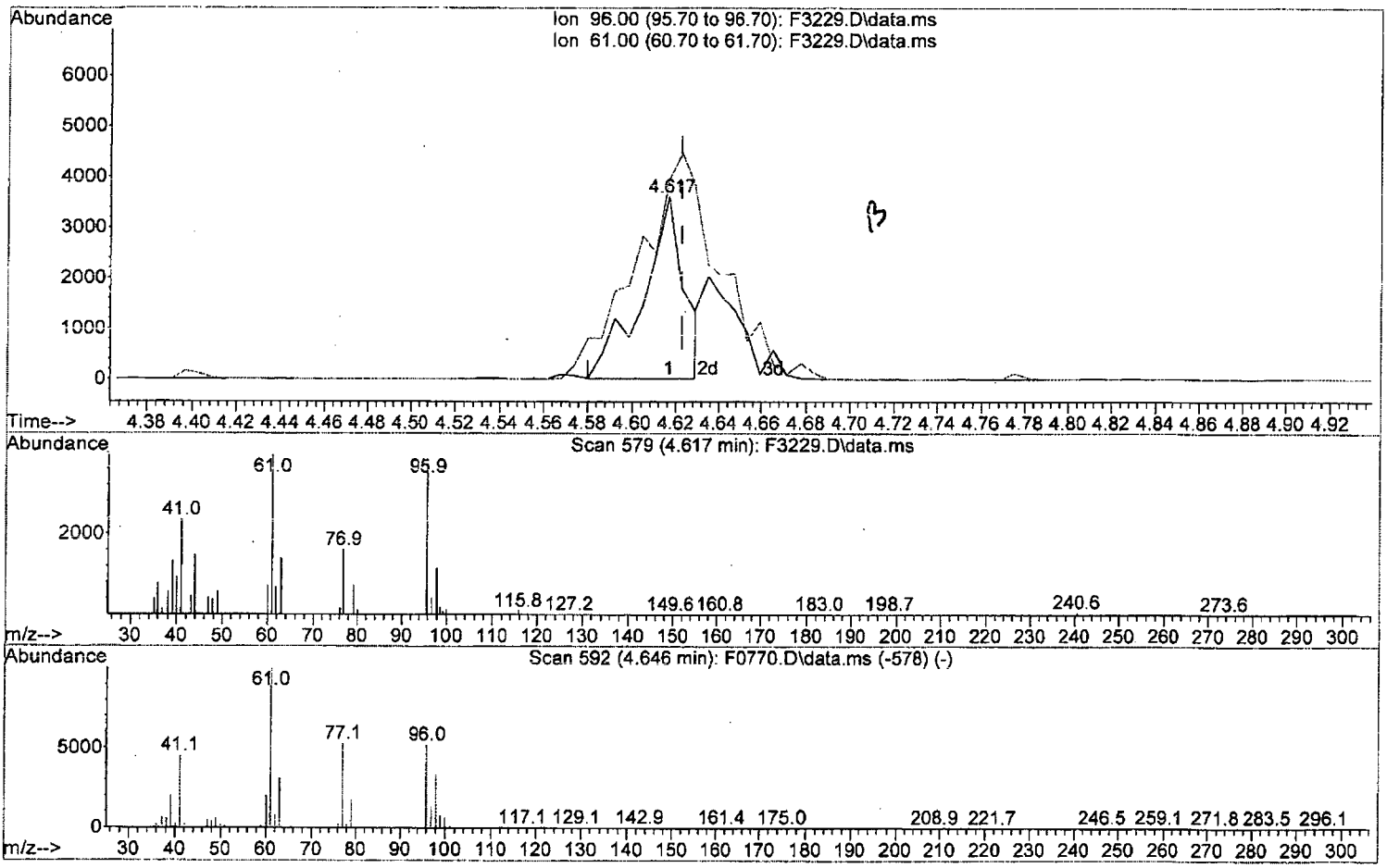
response 5699

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	29.23
97.00	22.40	35.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.006) 0.78 ug/L

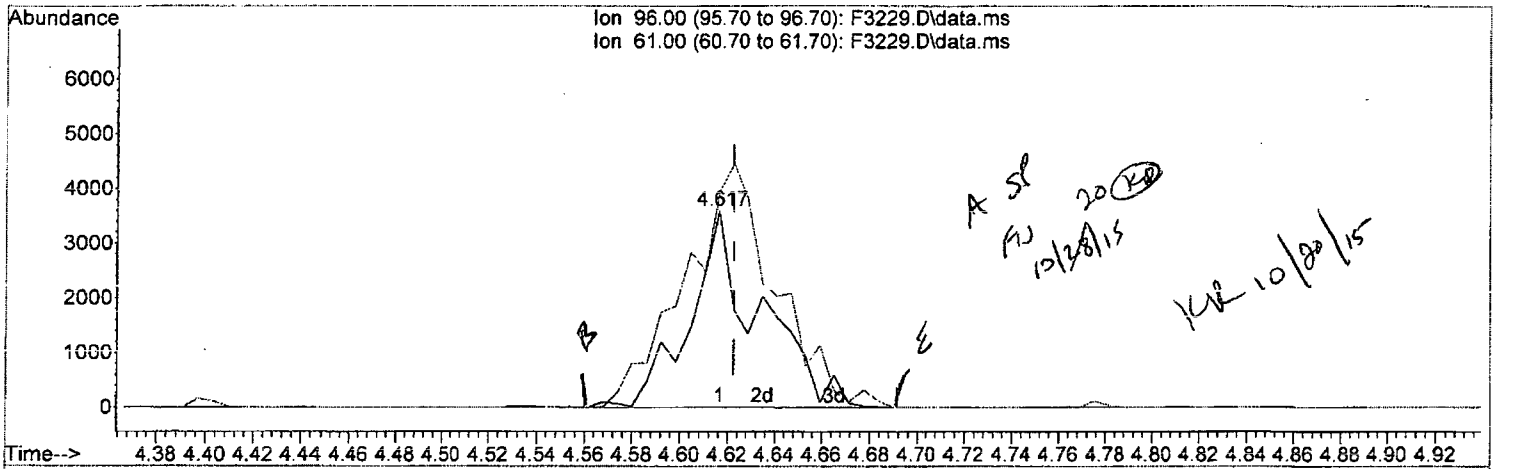
response 4760

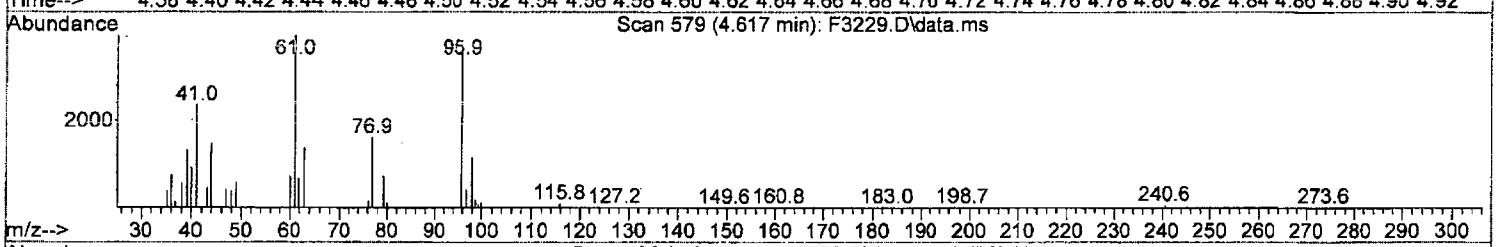
Ion	Exp%	Act%
96.00	100	100
61.00	193.00	109.27#
0.00	0.00	0.00
0.00	0.00	0.00

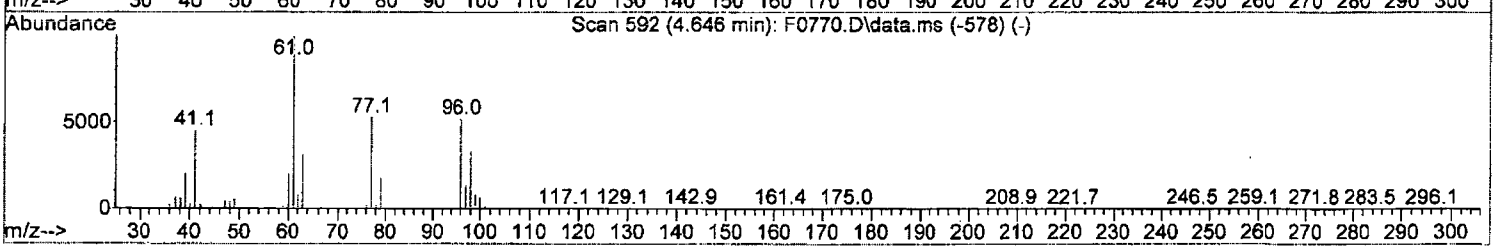
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3229.D\data.ms

(33) cis-1,2-Dichloroethene (P)

4.617min (-0.006) 1.20 ug/L m

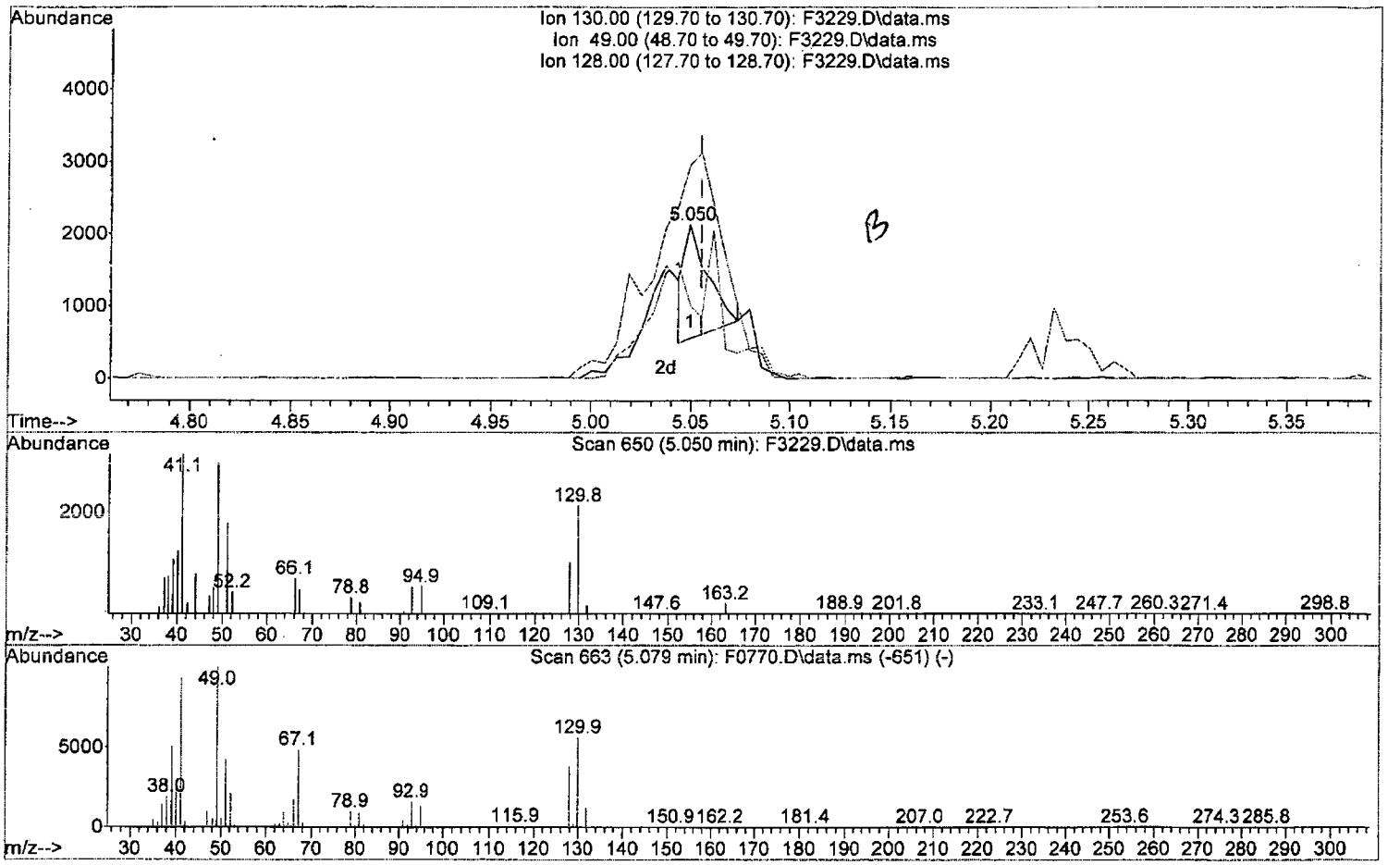
response 7324

Ion	Exp%	Act%
96.00	100	100
61.00	193.00	109.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 0.32 ug/L

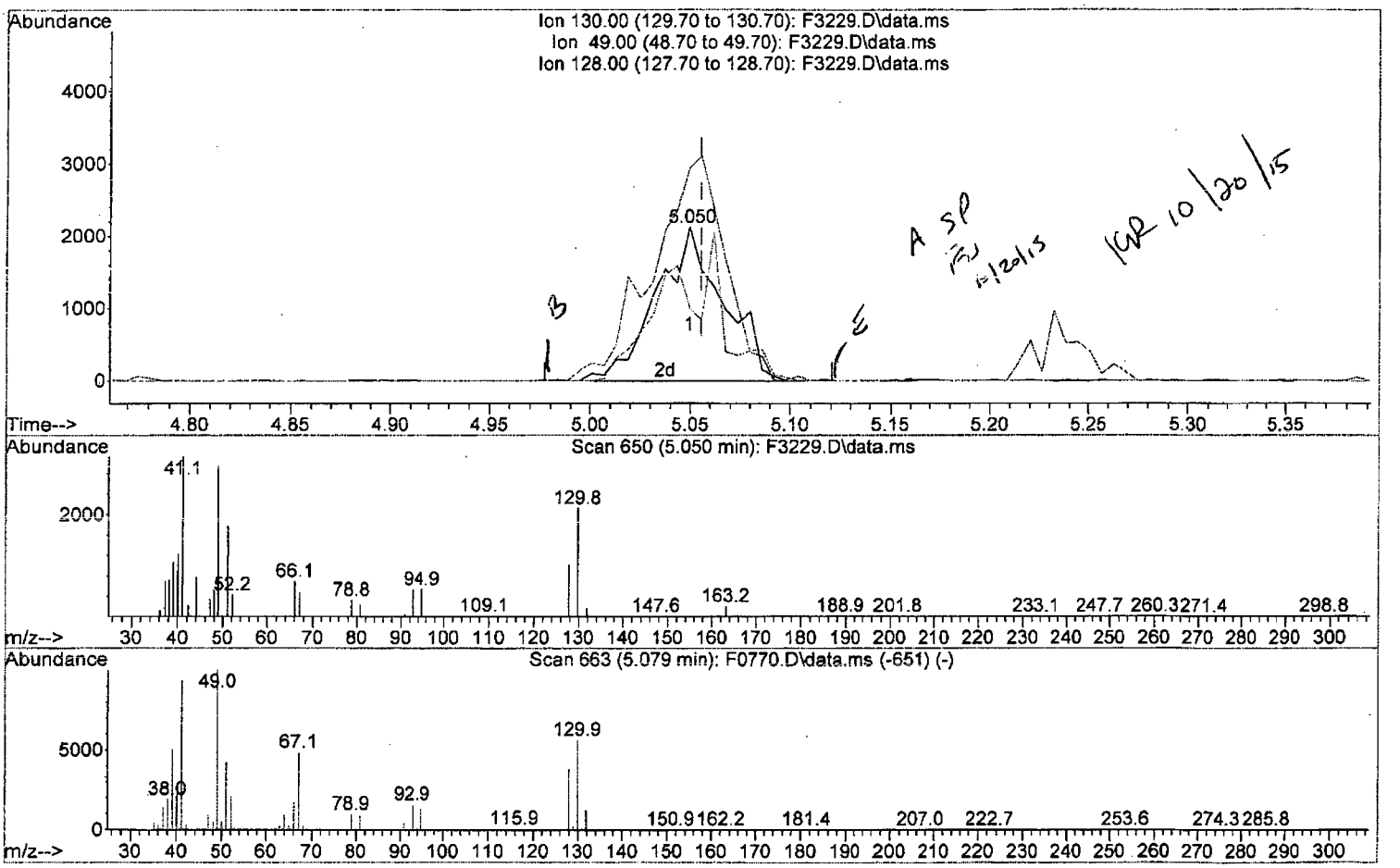
response 1294

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	137.97#
128.00	68.20	47.35#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(36) Bromochloromethane

5.050min (-0.006) 1.22 ug/L m

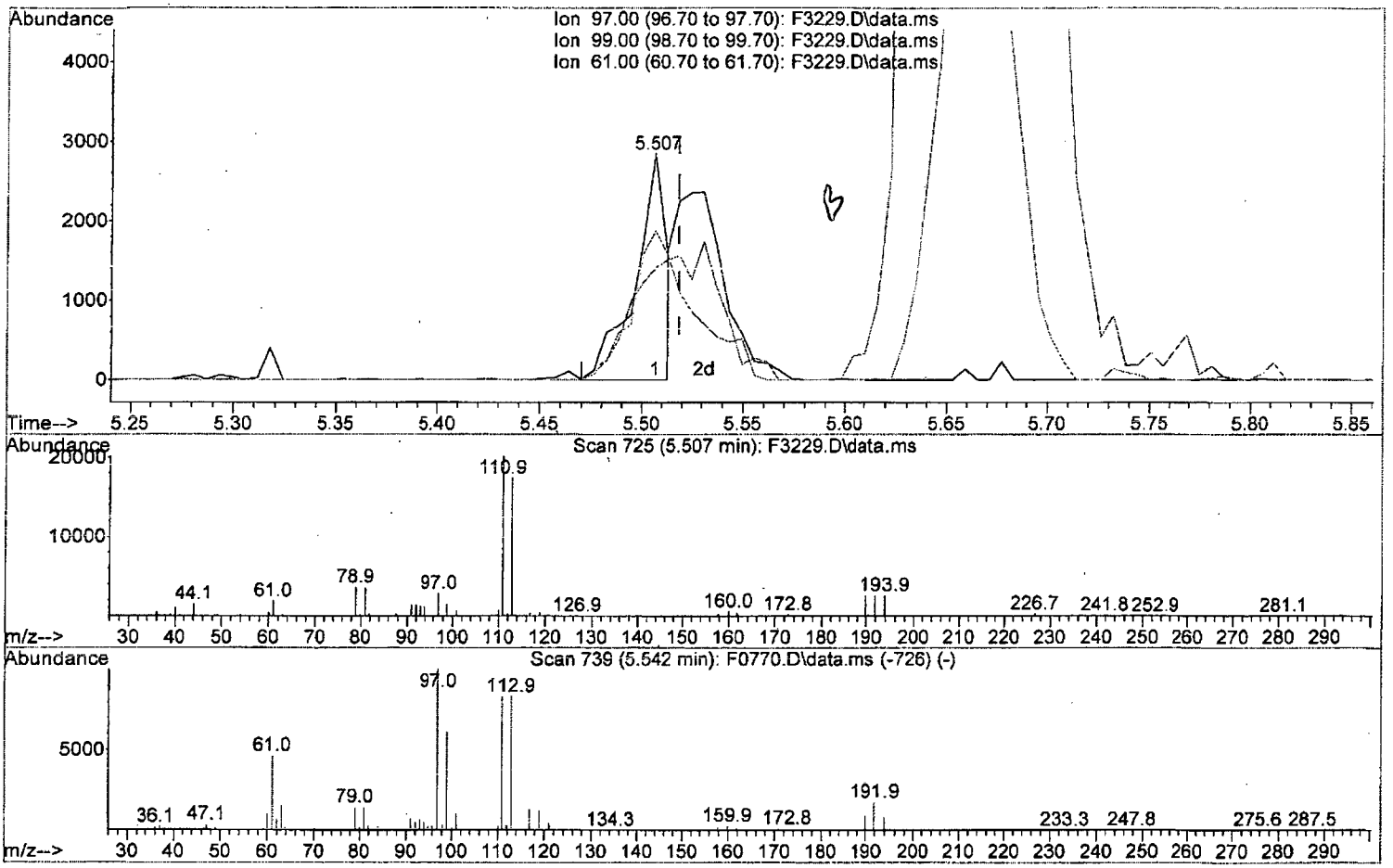
response 4924

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	138.76#
128.00	68.20	47.62#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.507min (-0.012) 0.40 ug/L

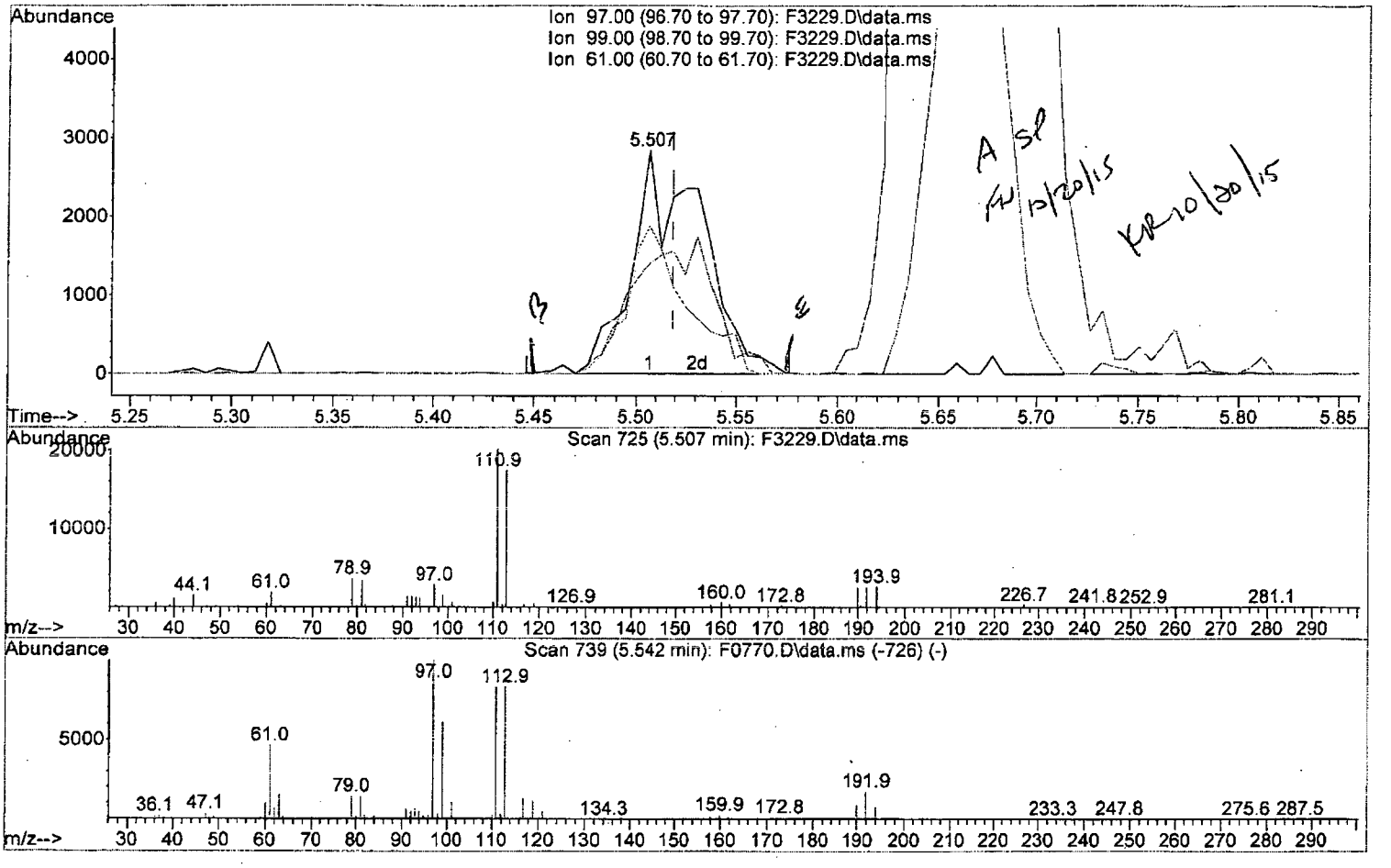
response 3062

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	49.54
61.00	46.40	65.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(40) 1,1,1-Trichloroethane (P)

5.507min (-0.012) 0.91 ug/L m

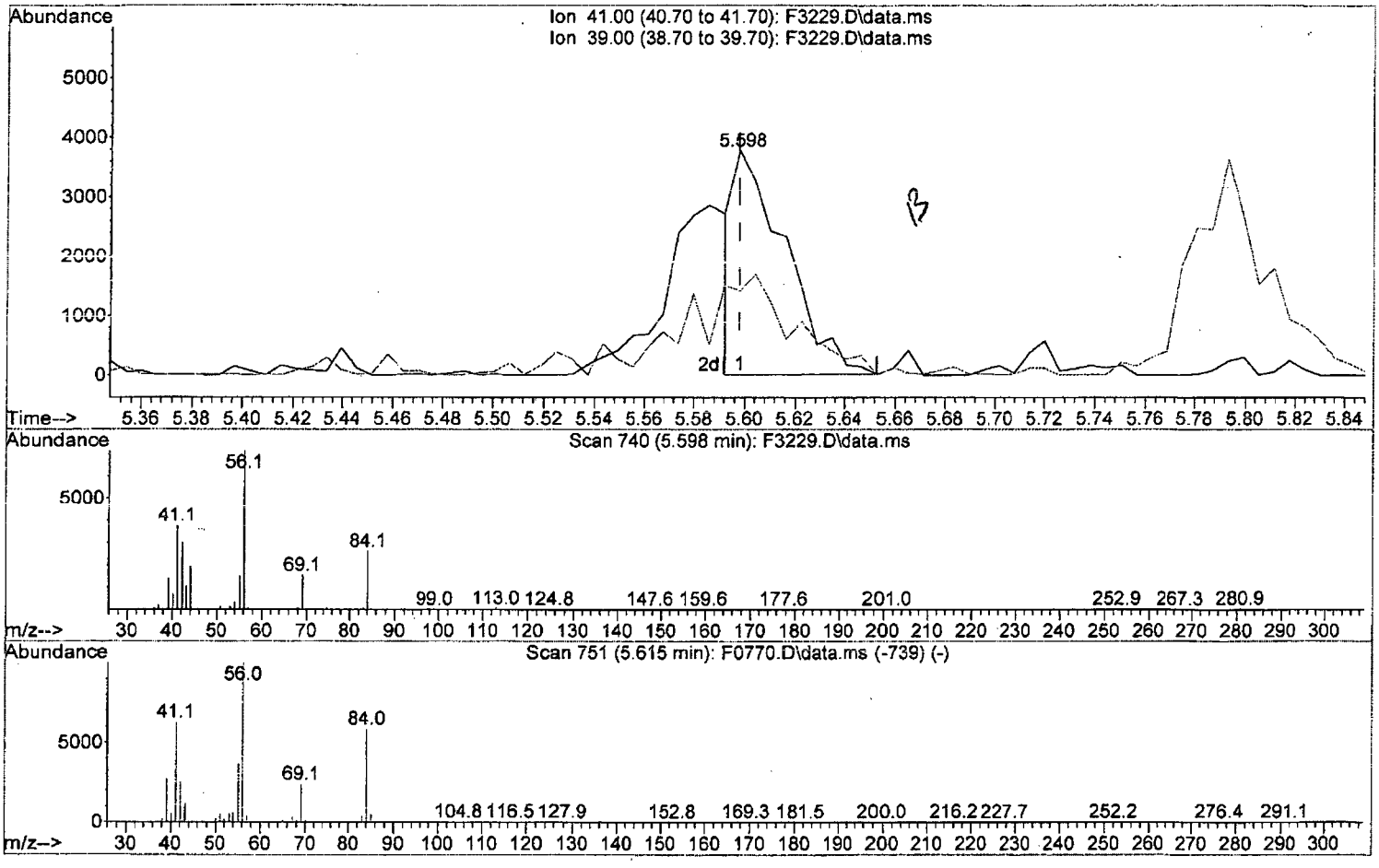
response 7008

Ion	Exp%	Act%
97.00	100	100
99.00	61.50	49.54
61.00	46.40	65.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(42) Cyclohexane (P)

5.598min (+0.000) 0.56 ug/L

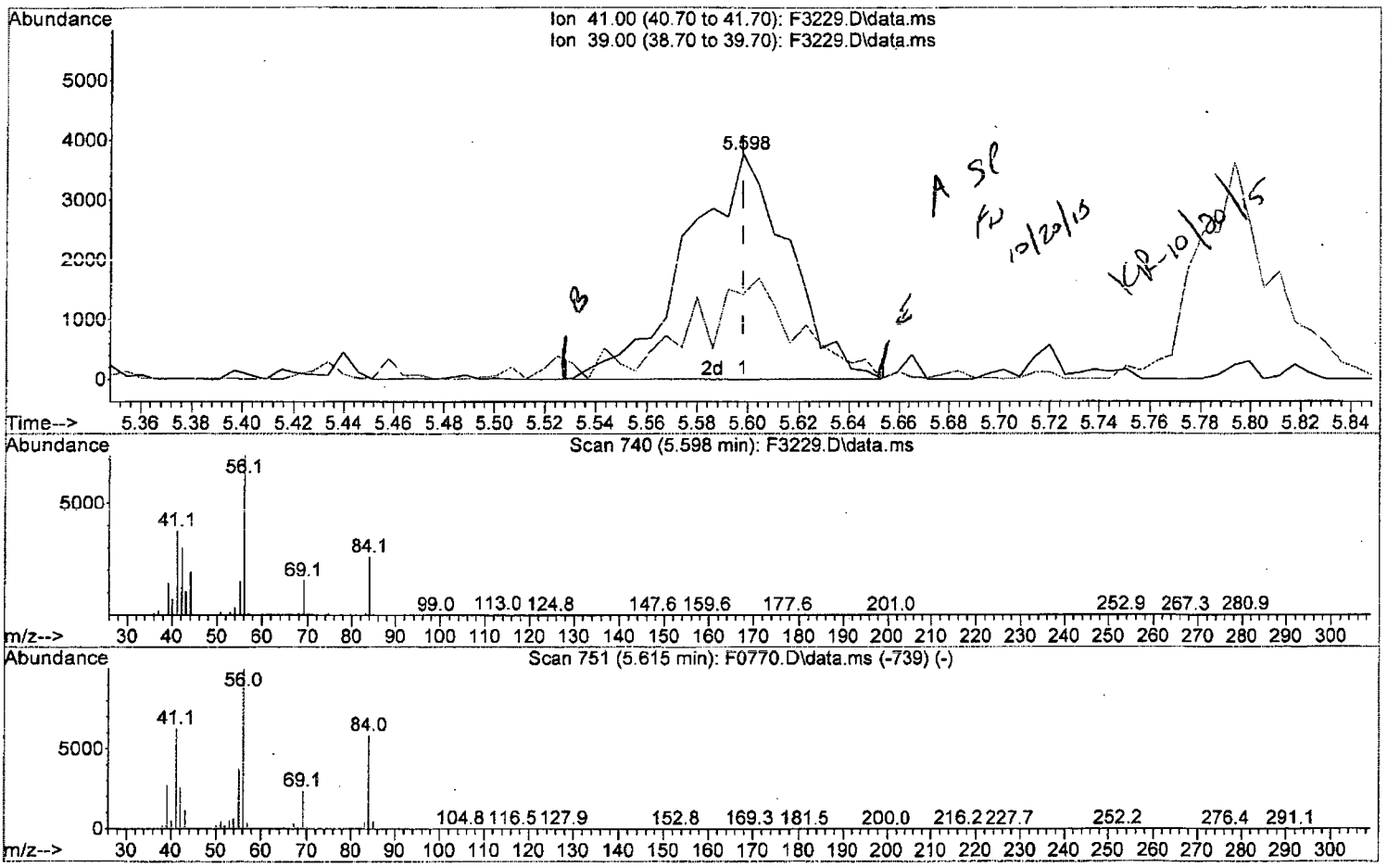
response 5350

Ion	Exp%	Act%
41.00	100	100
39.00	42.40	37.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(42) Cyclohexane (P)

5.598min (+0.000) 1.09 ug/L m

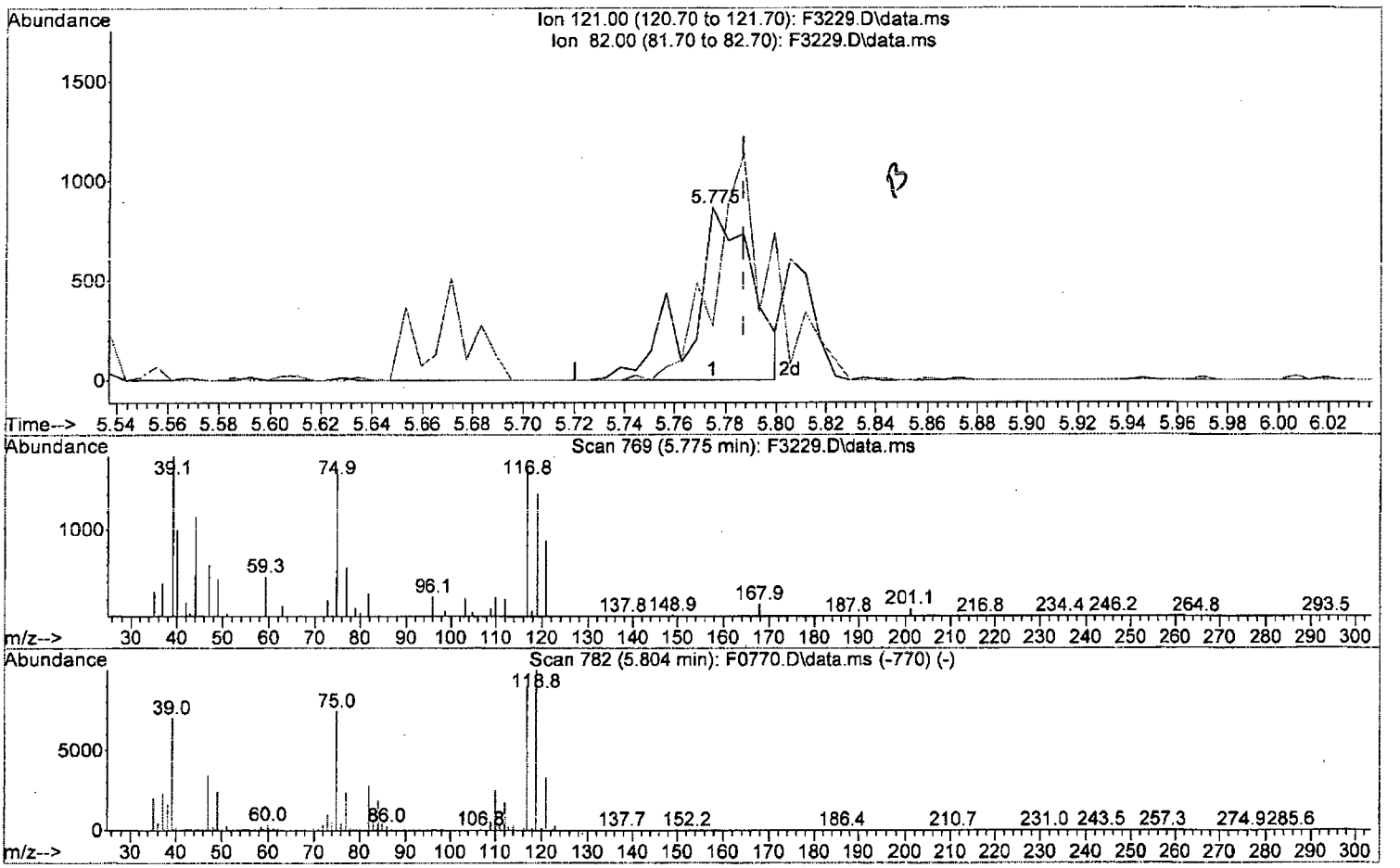
response 10468

Ion	Exp%	Act%
41.00	100	100
39.00	42.40	37.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(44) Carbontetrachloride (P)

5.775min (-0.012) 0.67 ug/L

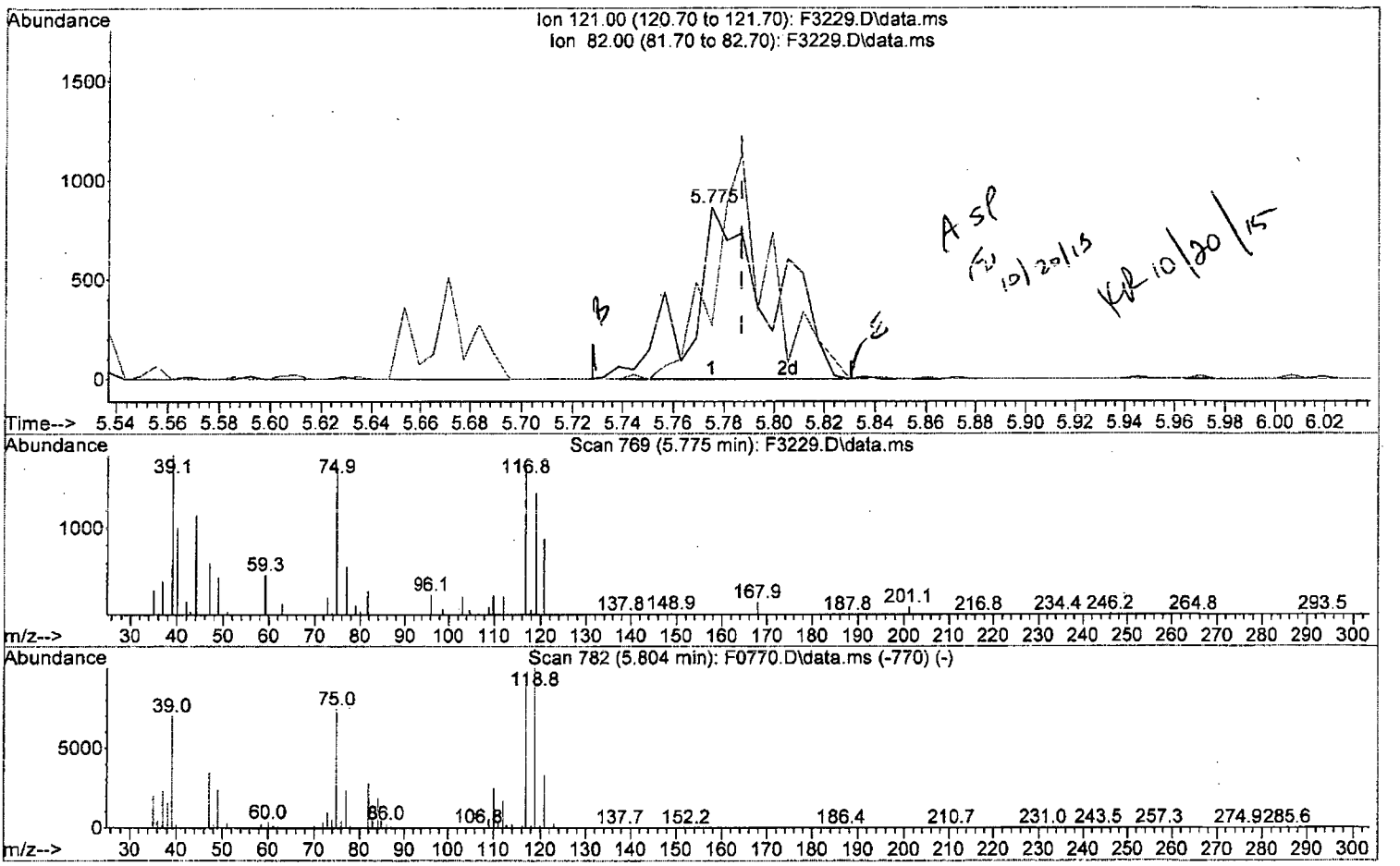
response 1426

Ion	Exp%	Act%
121.00	100	100
82.00	82.10	31.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(44) Carbontetrachloride (P)

5.775min (-0.012) 0.90 ug/L m

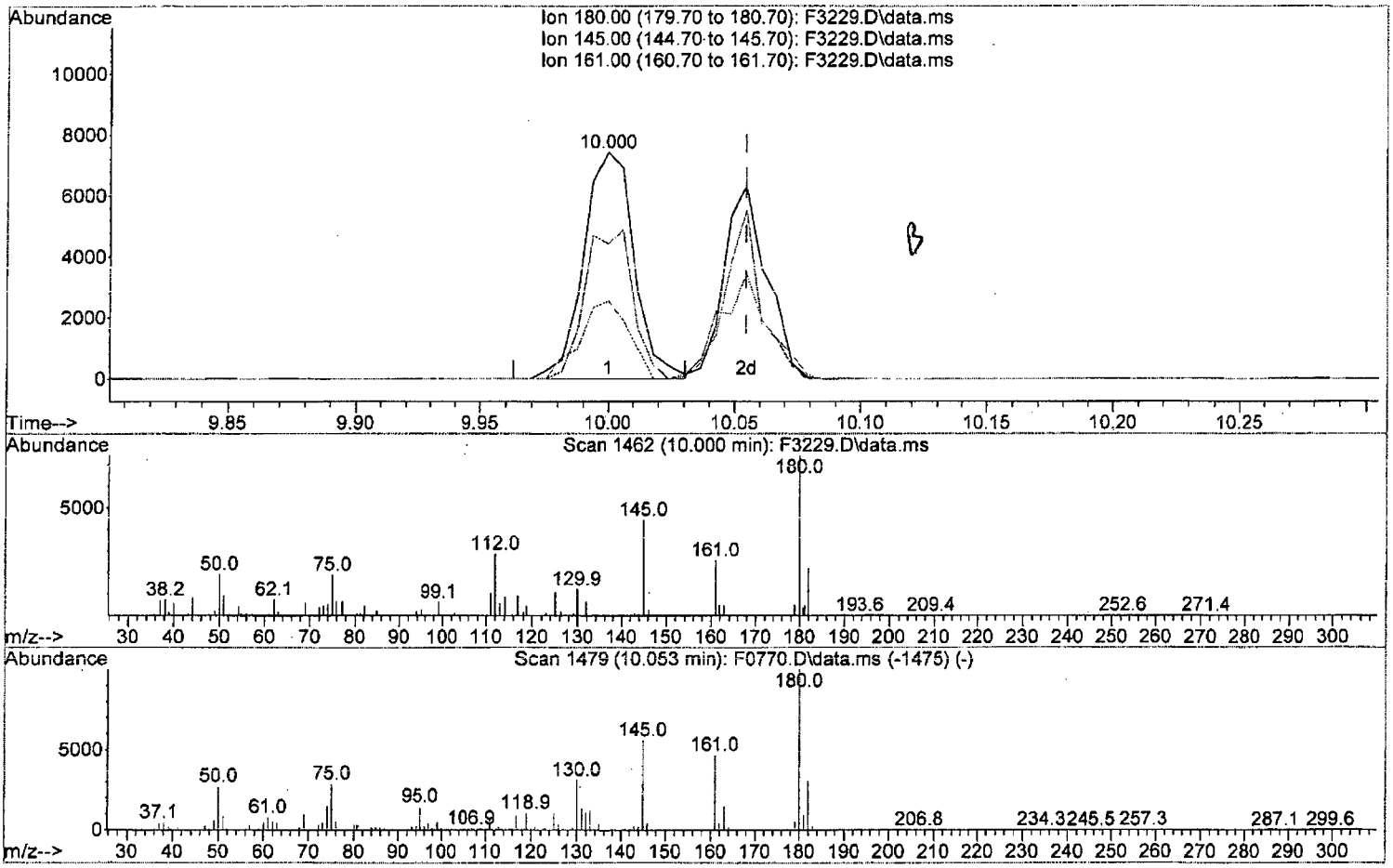
response 1922

Ion	Exp%	Act%
121.00	100	100
82.00	82.10	31.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3229.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.000min (-0.055) 1.11 ug/L

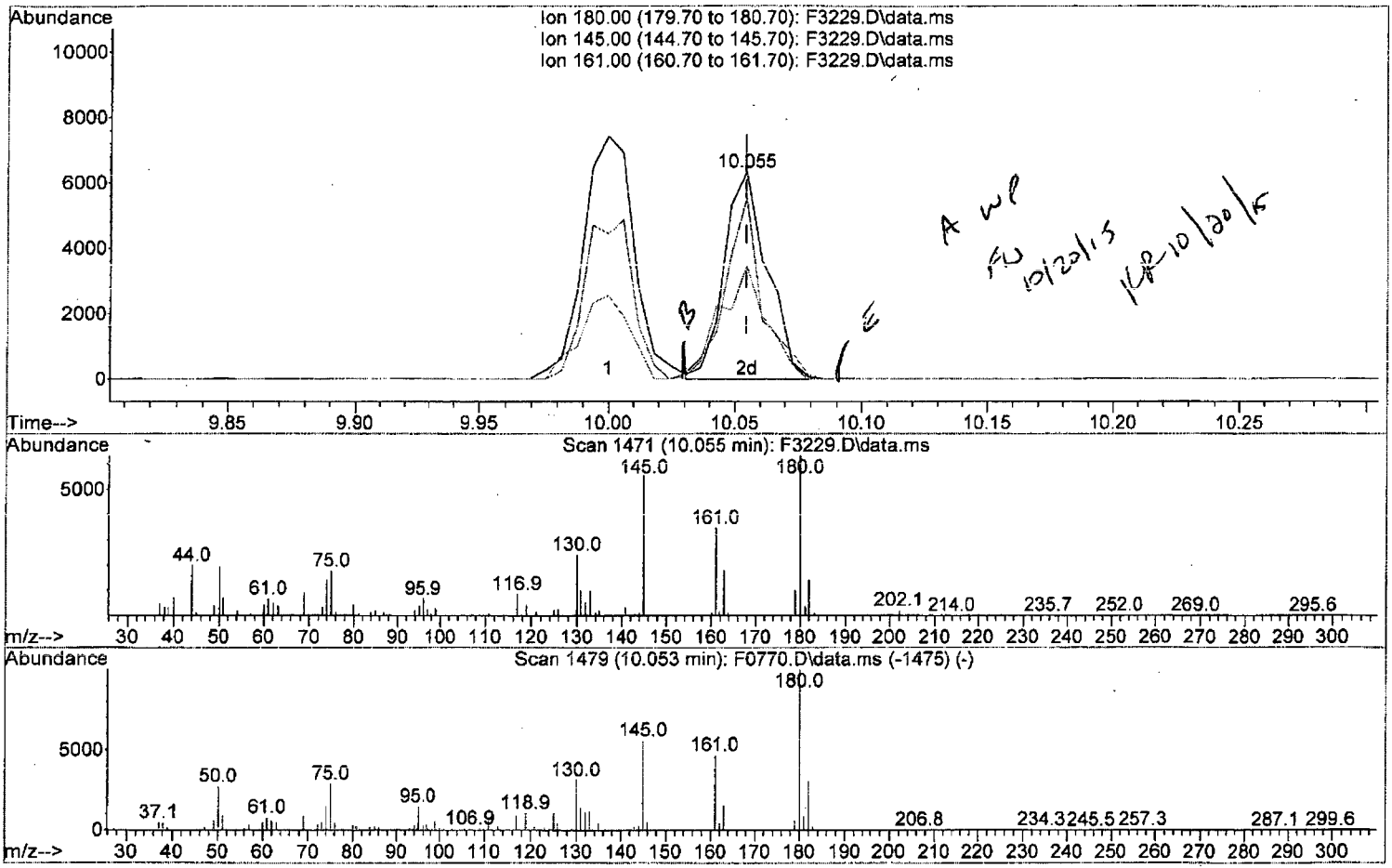
response 10431

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	59.67
161.00	46.60	34.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 09:59:37 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



A wl
FU 10/22/15
MS#10 10/20/15

TIC: F3229.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.055min (+0.000) 0.80 ug/L m

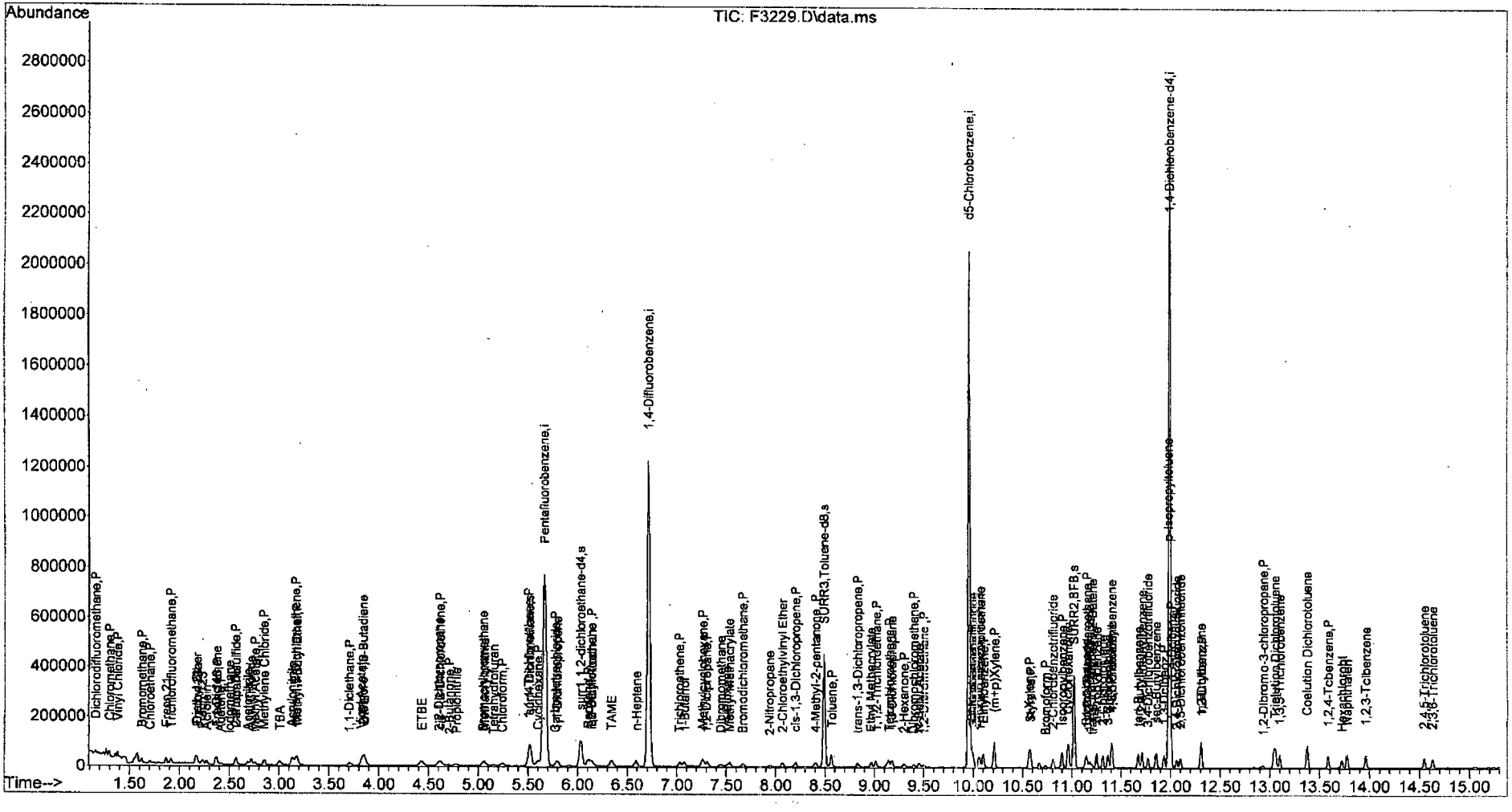
response 7522

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	87.40#
161.00	46.60	54.80
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3229.D
Acq On : 19 Oct 2015 6:47 pm
Operator : F. Naegler
Sample : 1.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Oct 20 10:14:46 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:18:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FD 10/20/15

KL 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	685007	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	971224	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	842358	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	452420	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.525	113	59790	10.04	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 20.08%#				
46) surr1,1,2-dichloroetha...	6.031	65	80855	10.09	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 20.18%#				
64) SURR3,Toluene-d8	8.488	98	231030	10.44	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 20.88%#				
69) SURR2,BFB	11.018	95	86353	9.77	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 19.54%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	18357m	1.89	ug/L		
3) Chloromethane	1.294	50	34383	2.08	ug/L		93
4) Vinyl Chloride	1.373	62	22949	2.01	ug/L		88
5) Bromomethane	1.623	94	12873	2.58	ug/L		93
6) Chloroethane	1.703	64	10143	1.78	ug/L		95
7) Freon 21	1.867	67	26010	1.97	ug/L		97
8) Trichlorofluoromethane	1.910	101	19218	1.96	ug/L		94
9) Diethyl Ether	2.166	59	14159	1.78	ug/L	#	75
10) Freon 123a	2.172	67	17094	2.09	ug/L		94
11) Freon 123	2.233	83	18760	2.21	ug/L		89
12) Acrolein	2.276	56	22471	9.48	ug/L		94
13) 1,1-Diclethene	2.361	96	10256	1.88	ug/L	#	72
14) Freon 113	2.373	101	11032	1.81	ug/L	#	74
15) Acetone	2.422	43	16181	2.62	ug/L		94
16) 2-Propanol	2.568	45	35272	28.63	ug/L		85
17) Iodomethane	2.501	142	3596	0.50	ug/L		95
18) Carbon Disulfide	2.562	76	30377	1.90	ug/L		99
19) Acetonitrile	2.690	40	15462m	8.57	ug/L		
20) Allyl Chloride	2.733	76	5755m	2.01	ug/L		
21) Methyl Acetate	2.757	43	24361	1.92	ug/L		97
22) Methylene Chloride	2.855	84	15056	2.11	ug/L		95
23) TBA	3.001	59	37824	26.00	ug/L		75
24) Acrylonitrile	3.129	53	56221	9.73	ug/L		96
25) Methyl-t-Butyl Ether	3.184	73	45027	2.02	ug/L		87
26) trans-1,2-Dichloroethene	3.172	96	12386	2.01	ug/L	#	87
27) 1,1-Diclethane	3.708	63	27237	2.23	ug/L		92
28) Vinyl Acetate	3.818	86	2098m	1.57	ug/L		
29) DIPE	3.855	45	74392	2.03	ug/L		96
30) 2-Chloro-1,3-Butadiene	3.830	53	30272	1.97	ug/L		83
31) ETBE	4.440	59	47017m	2.11	ug/L		
32) 2,2-Dichloropropane	4.623	77	12024m	2.02	ug/L		
33) cis-1,2-Dichloroethene	4.629	96	13558	2.24	ug/L	#	62
34) 2-Butanone	4.690	43	16412	1.87	ug/L		97
35) Propionitrile	4.781	54	21290	9.37	ug/L		95

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:18:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.056	130	8578m	2.13	ug/L		
37) Methacrylonitrile	5.068	67	6985	1.65	ug/L	#	74
38) Tetrahydrofuran	5.159	42	10869	1.91	ug/L		99
39) Chloroform	5.245	83	23265m	2.14	ug/L		
40) 1,1,1-Trichloroethane	5.513	97	15929	2.08	ug/L		89
42) Cyclohexane	5.598	41	19527	2.02	ug/L		94
44) Carbontetrachloride	5.781	121	4584	2.13	ug/L	#	59
45) 1,1-Dichloropropene	5.806	75	16917	2.00	ug/L		92
47) Benzene	6.098	78	54861	2.12	ug/L		88
48) 1,2-Dichloroethane	6.147	62	23511	2.14	ug/L		96
49) Iso-Butyl Alcohol	6.141	43	19264	23.09	ug/L		92
50) TAME	6.348	73	32765	1.75	ug/L		93
51) n-Heptane	6.580	43	28503	2.06	ug/L		90
52) 1-Butanol	7.074	56	21737	56.54	ug/L		79
53) Trichloroethene	7.025	130	12193	1.83	ug/L		86
54) Methylcyclohexane	7.263	55	21907	1.89	ug/L		93
55) 1,2-Diclpropane	7.305	63	15020	2.08	ug/L		75
56) Dibromomethane	7.445	93	6474	1.56	ug/L	#	26
57) 1,4-Dioxane	7.500	88	6674	40.32	ug/L		98
58) Methyl Methacrylate	7.531	69	10242	1.71	ug/L		92
59) Bromodichloromethane	7.677	83	13817	1.81	ug/L		89
60) 2-Nitropropane	7.945	41	5441	2.91	ug/L		93
61) 2-Chloroethylvinyl Ether	8.067	63	10661	1.78	ug/L		80
62) cis-1,3-Dichloropropene	8.201	75	16126	1.75	ug/L		88
63) 4-Methyl-2-pentanone	8.403	43	30433	1.88	ug/L		91
65) Toluene	8.561	91	58104	2.19	ug/L		94
66) trans-1,3-Dichloropropene	8.823	75	12168	1.54	ug/L		83
67) Ethyl Methacrylate	8.970	69	15941	1.65	ug/L		87
68) 1,1,2-Trichloroethane	9.012	97	12783	2.05	ug/L		92
71) Tetrachloroethene	9.146	164	10460	2.01	ug/L	#	82
72) 2-Hexanone	9.299	43	19367	1.62	ug/L		93
73) 1,3-Dichloropropane	9.177	76	21286	2.02	ug/L		92
74) Dibromochloromethane	9.402	129	9841	1.69	ug/L	#	73
75) N-Butyl Acetate	9.445	43	30358	1.64	ug/L		87
76) 1,2-Dibromoethane	9.500	107	10516	1.79	ug/L	#	79
77) 3-Chlorobenzotrifluoride	10.000	180	21413	2.12	ug/L		93
78) Chlorobenzene	9.982	112	36800	2.07	ug/L		95
79) 4-Chlorobenzotrifluoride	10.055	180	17044	1.86	ug/L		90
80) 1,1,1,2-Tetrachloroethane	10.073	131	9649	1.77	ug/L	#	82
81) Ethylbenzene	10.103	106	18718	2.09	ug/L	#	84
82) (m+p)Xylene	10.213	106	45541	3.97	ug/L		97
83) o-Xylene	10.567	106	23885	2.10	ug/L		97
84) Styrene	10.579	104	40095	2.05	ug/L		96
85) Bromoform	10.731	173	6468	1.51	ug/L		86
86) 2-Chlorobenzotrifluoride	10.805	180	21032	2.10	ug/L		90
87) Isopropylbenzene	10.896	105	62000	2.09	ug/L		97
88) Cyclohexanone	10.963	55	76648	39.40	ug/L		92
89) trans-1,4-Dichloro-2-B...	11.201	53	5664	1.68	ug/L	#	59
91) 1,1,2,2-Tetrachloroethane	11.158	83	16901	1.85	ug/L		96
92) Bromobenzene	11.140	156	14782	1.95	ug/L	#	84
93) 1,2,3-Trichloropropane	11.183	110	5420	1.83	ug/L		91

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:18:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

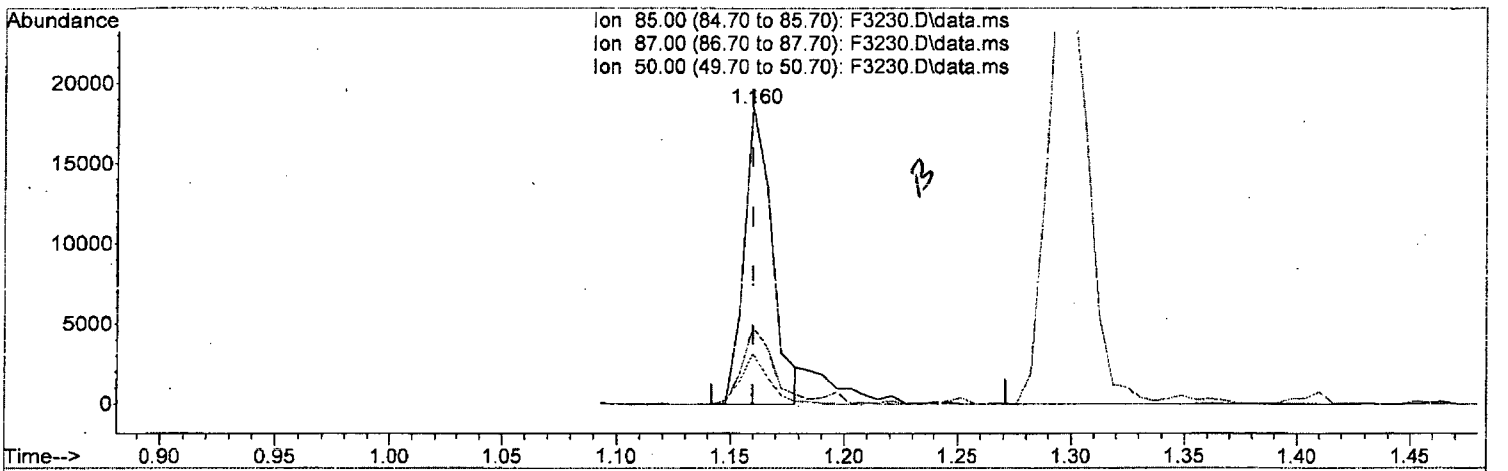
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.250	91	74900	2.21	ug/L		92
95)	2-Chlorotoluene	11.311	91	41523	2.12	ug/L		88
96)	3-Chlorotoluene	11.365	91	45456	2.20	ug/L		97
97)	4-Chlorotoluene	11.402	91	51781	2.22	ug/L		98
98)	1,3,5-Trimethylbenzene	11.402	105	50556	2.14	ug/L		98
99)	tert-Butylbenzene	11.670	119	45993	2.13	ug/L		97
100)	1,2,4-Trimethylbenzene	11.713	105	51314	2.10	ug/L		92
101)	3,4-Dichlorobenzotrifl...	11.774	214	15308	2.04	ug/L		84
102)	sec-Butylbenzene	11.853	105	67418	2.18	ug/L		97
103)	p-Isopropyltoluene	11.975	119	48289	1.92	ug/L		92
104)	1,3-Dclbenz	11.932	146	30606	2.13	ug/L		94
105)	1,4-Dclbenz	12.006	146	31575	2.16	ug/L		91
106)	2,4-Dichlorobenzotrifl...	12.060	214	13655	2.02	ug/L		87
107)	2,5-Dichlorobenzotrifl...	12.097	214	16004	2.07	ug/L		96
108)	n-Butylbenzene	12.304	91	46046	1.97	ug/L		94
109)	1,2-Dclbenz	12.310	146	29652	2.08	ug/L		96
110)	1,2-Dibromo-3-chloropr...	12.926	157	2582	1.33	ug/L	#	59
111)	Trielution Dichlorotol...	13.042	125	79496	6.06	ug/L		93
112)	1,3,5-Trichlorobenzene	13.097	180	23572	2.05	ug/L		93
113)	Coelution Dichlorotoluene	13.371	125	59405	4.05	ug/L		88
114)	1,2,4-Tcbenzene	13.585	180	21754	1.98	ug/L		95
115)	Hexachlorobt	13.719	225	10544	2.19	ug/L		87
116)	Naphthalen	13.774	128	64068	1.95	ug/L		97
117)	1,2,3-Tclbenzene	13.962	180	21379	1.89	ug/L		97
118)	2,4,5-Trichlorotoluene	14.548	159	15915	1.87	ug/L		93
119)	2,3,6-Trichlorotoluene	14.627	159	16203	2.09	ug/L		90

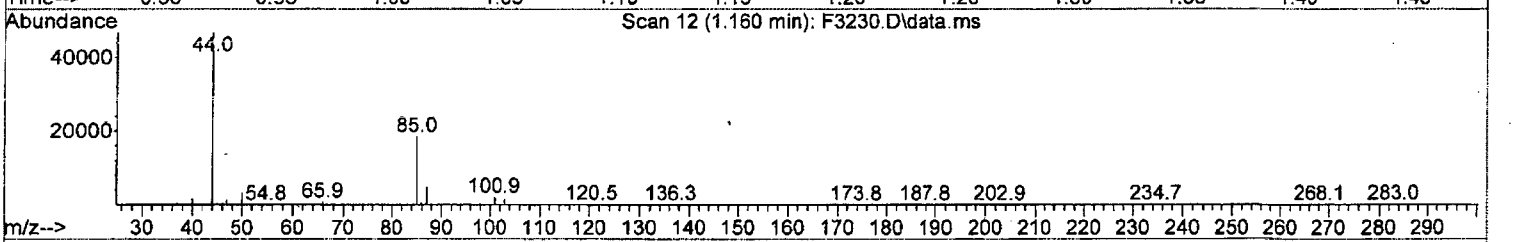
(#) = qualifier out of range (m) = manual integration (+) = signals summed

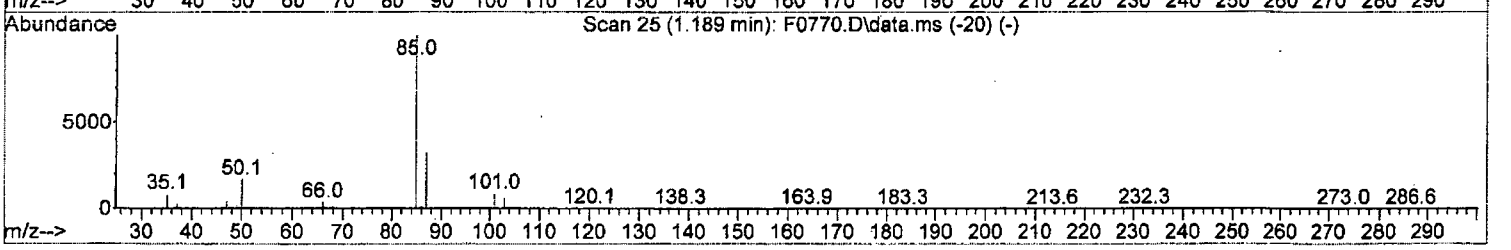
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3230.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.62 ug/L

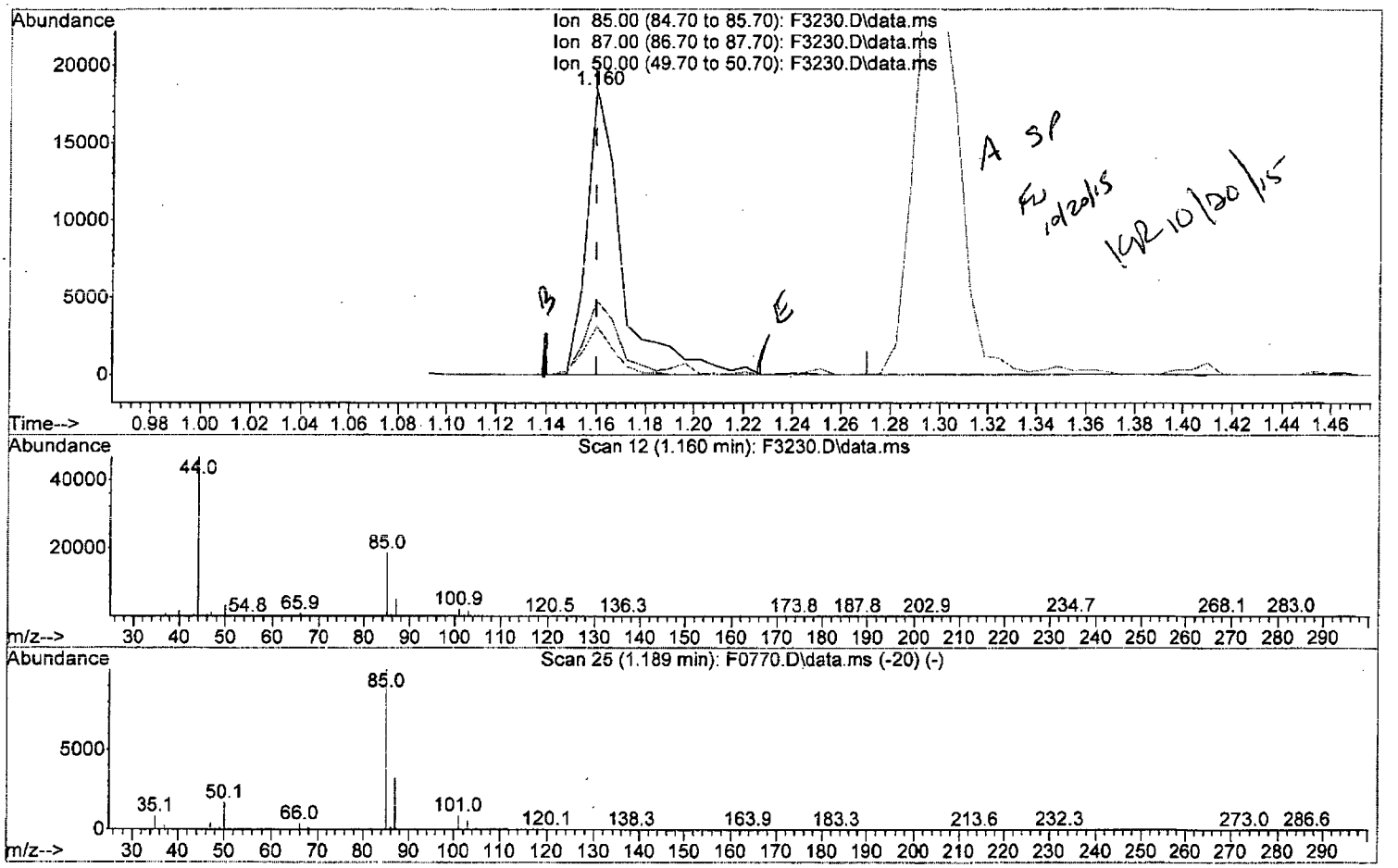
response 15730

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	25.86
50.00	17.40	16.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(2) Dichlorodifluoromethane (P)

1.160min (+0.000) 1.89 ug/L m

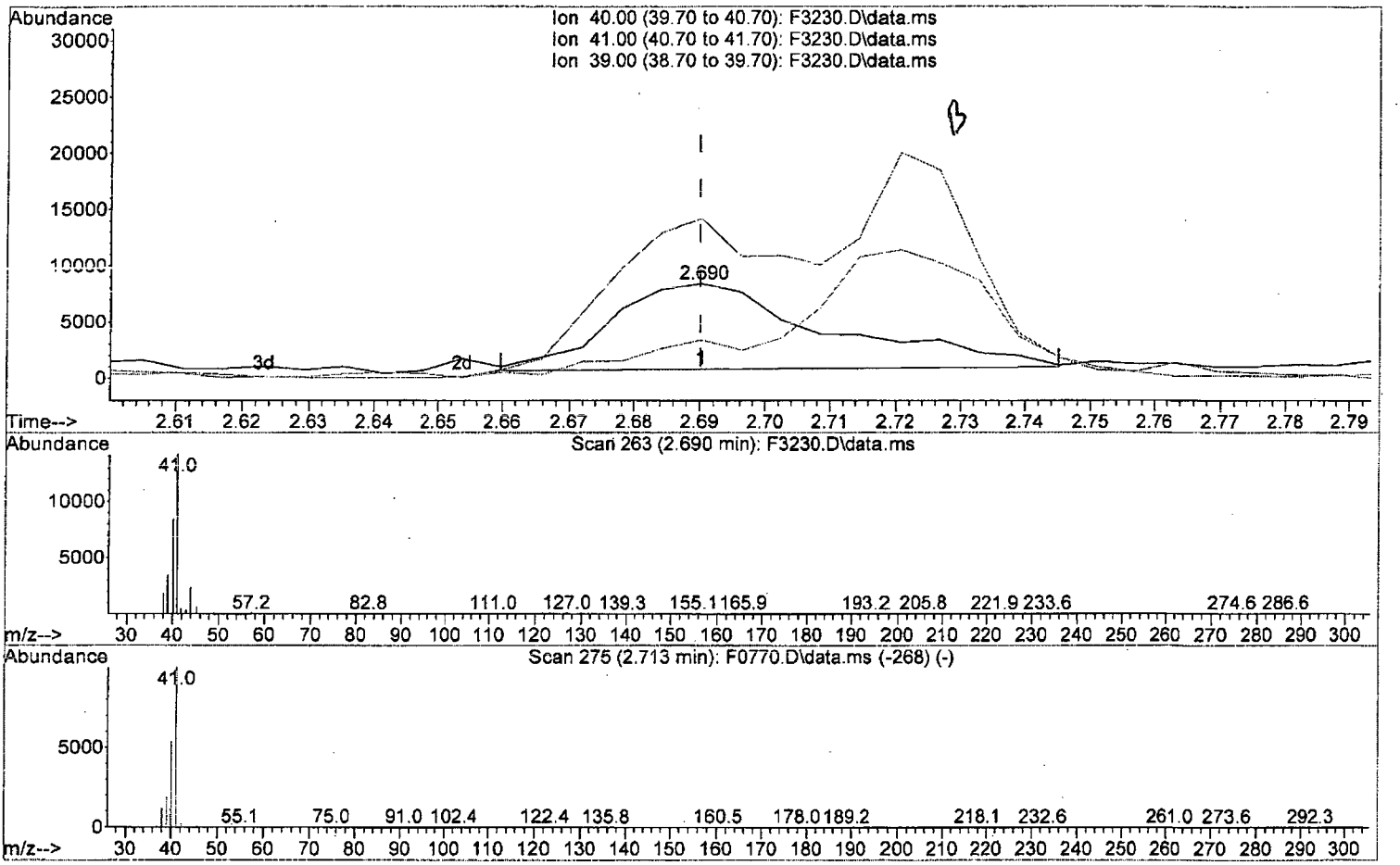
response 18357

Ion	Exp%	Act%
85.00	100	100
87.00	32.20	25.86
50.00	17.40	16.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 9.73 ug/L

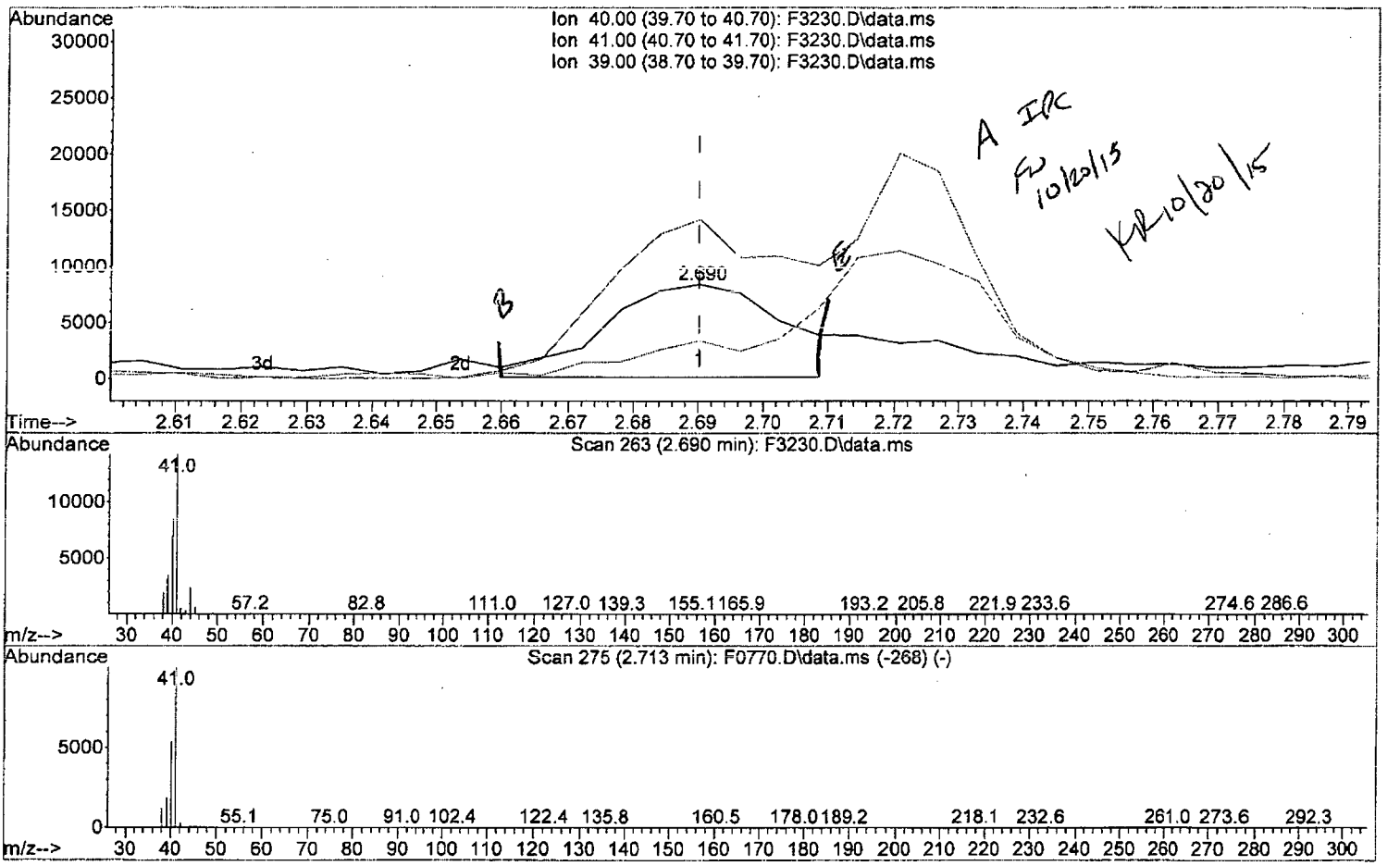
response 17557

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	168.97
39.00	35.30	40.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 8.57 ug/L m

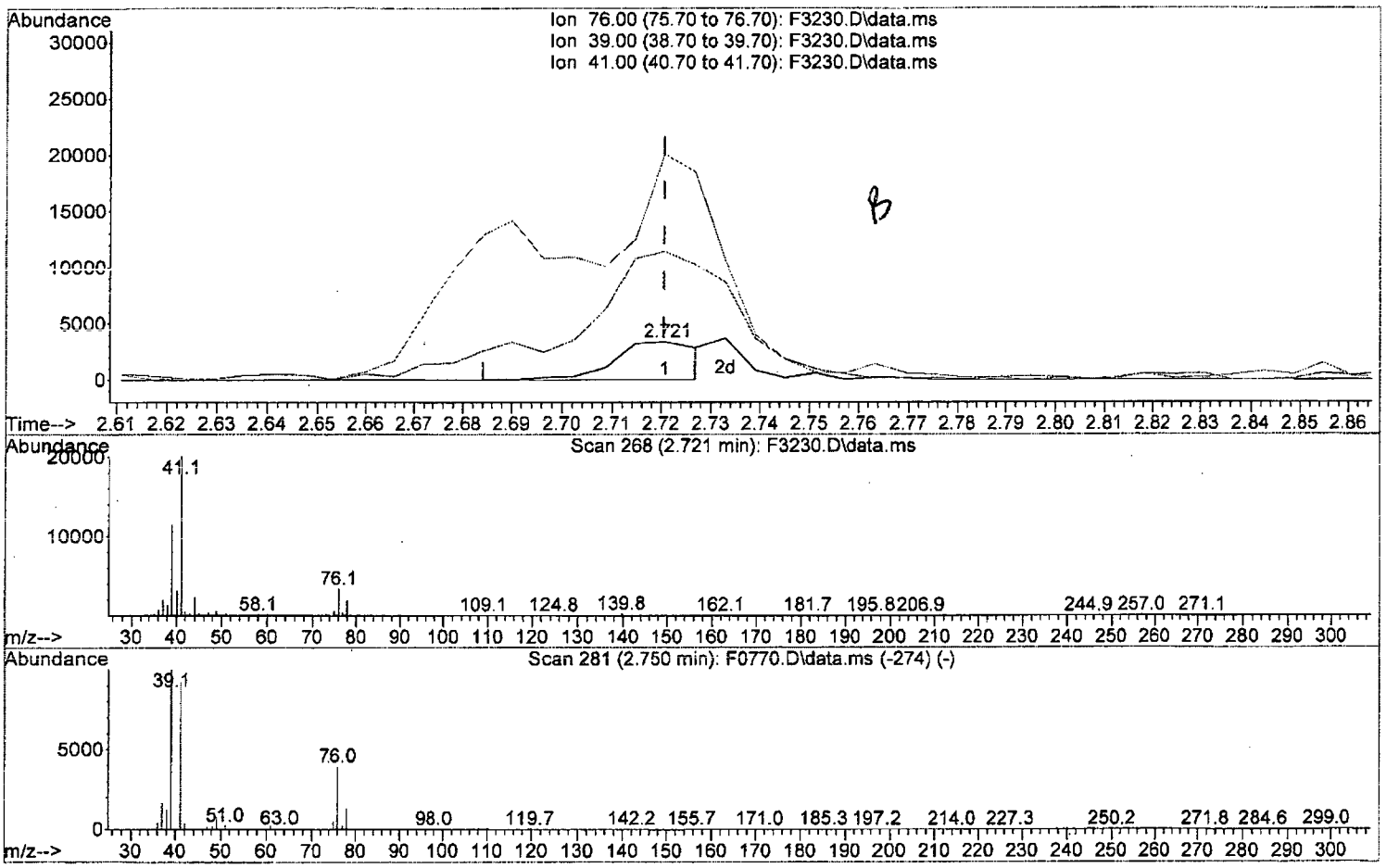
response 15462

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	168.97
39.00	35.30	40.22
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(20) Allyl Chloride

2.721min (+0.000) 1.40 ug/L

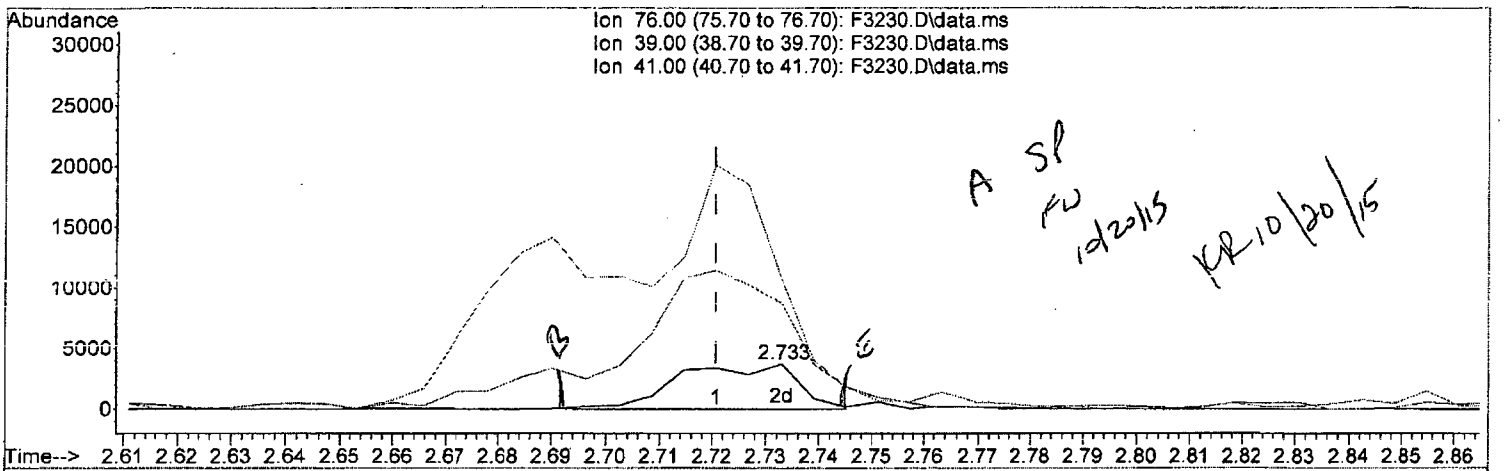
response 4022

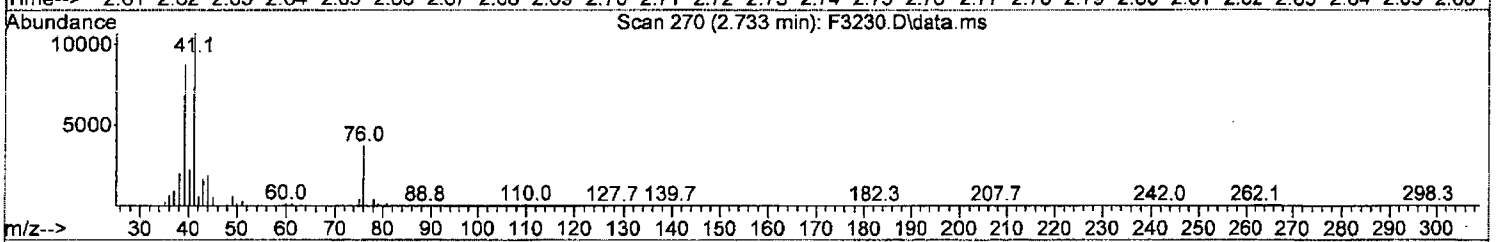
Ion	Exp%	Act%
76.00	100	100
39.00	254.40	337.18#
41.00	234.50	593.89#
0.00	0.00	0.00

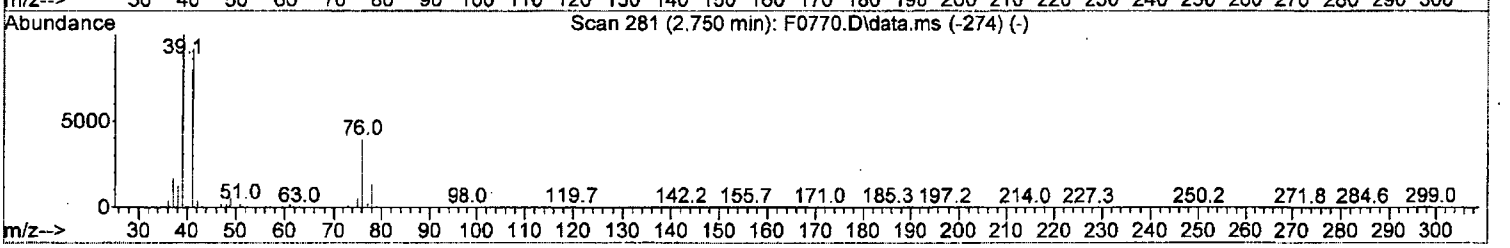
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3230.D\data.ms

(20) Allyl Chloride

2.733min (+0.012) 2.01 ug/L m

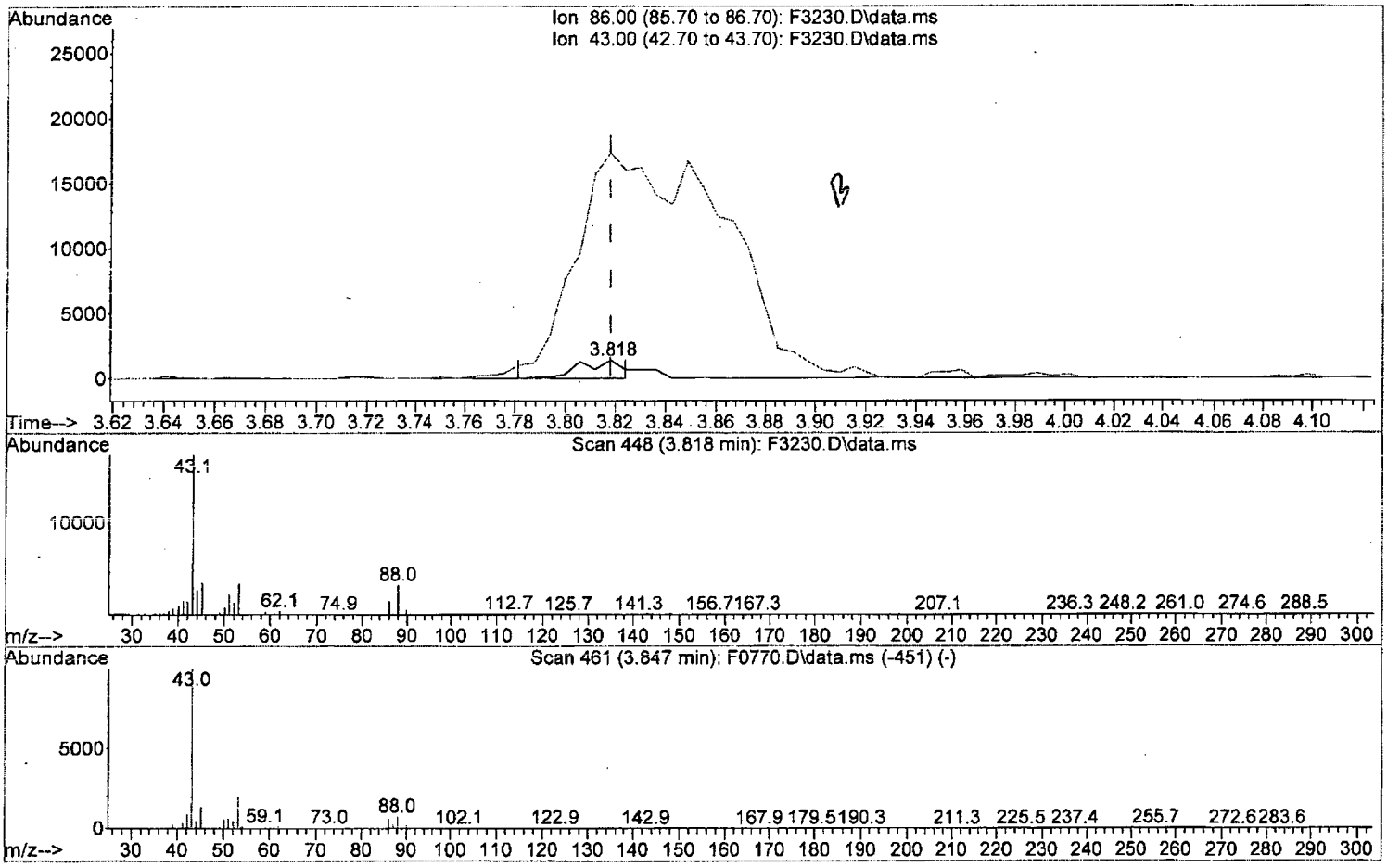
response 5755

Ion	Exp%	Act%
76.00	100	100
39.00	254.40	234.31#
41.00	234.50	286.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 1.21 ug/L

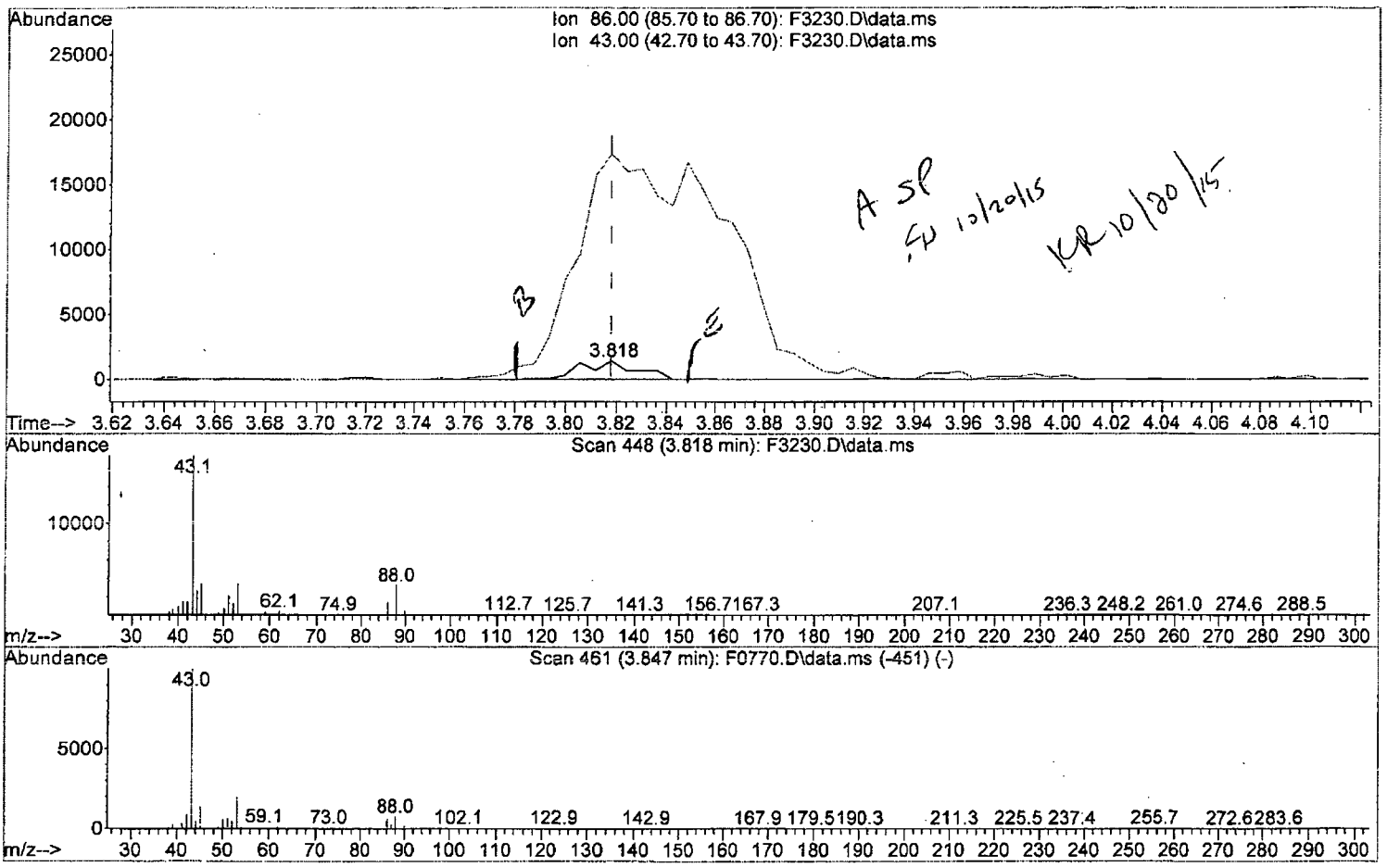
response 1618

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	1244.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(28) Vinyl Acetate

3.818min (+0.000) 1.57 ug/L m

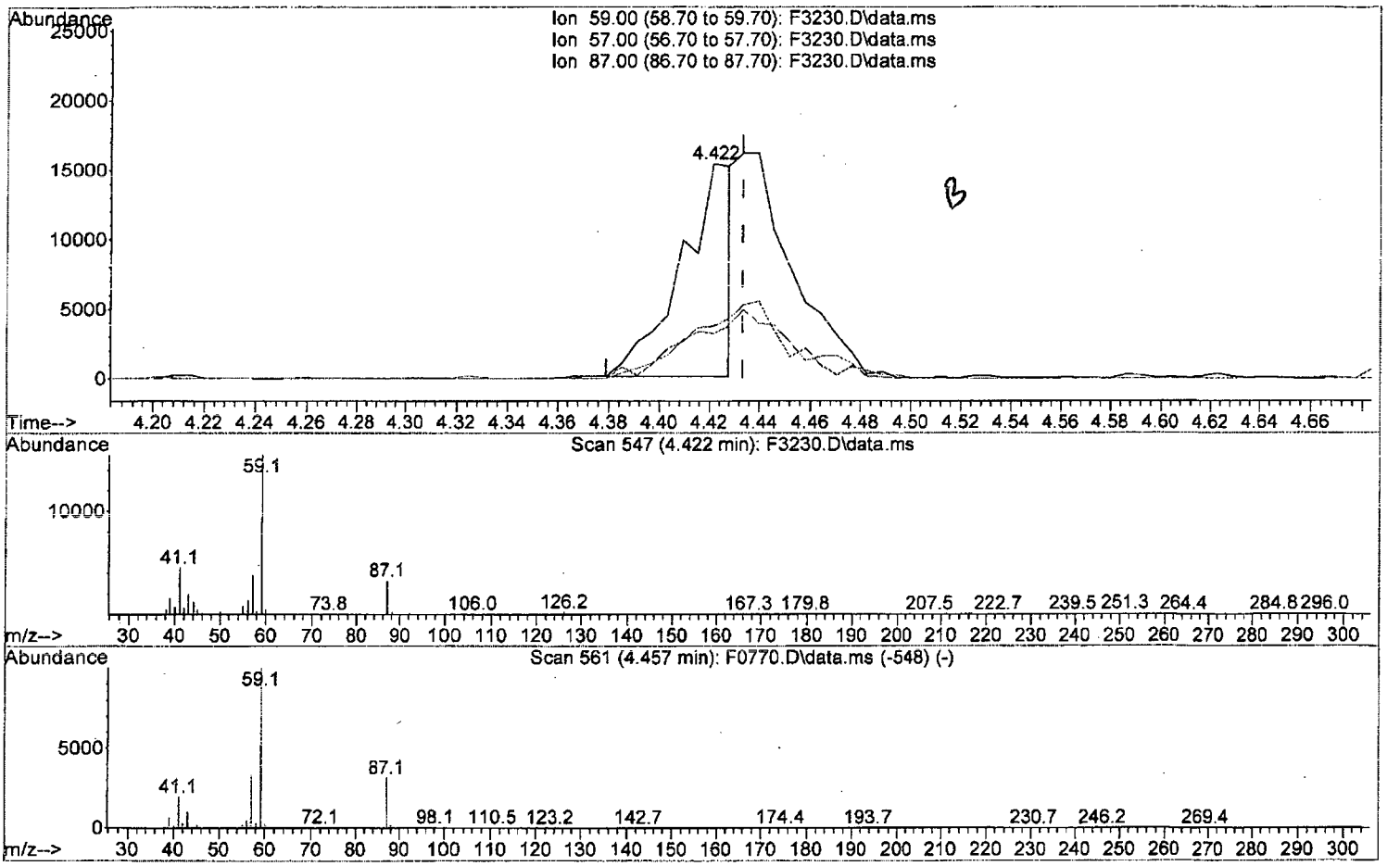
response 2098

Ion	Exp%	Act%
86.00	100	100
43.00	1655.60	1244.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(31) ETBE

4.422min (-0.012) 0.99 ug/L

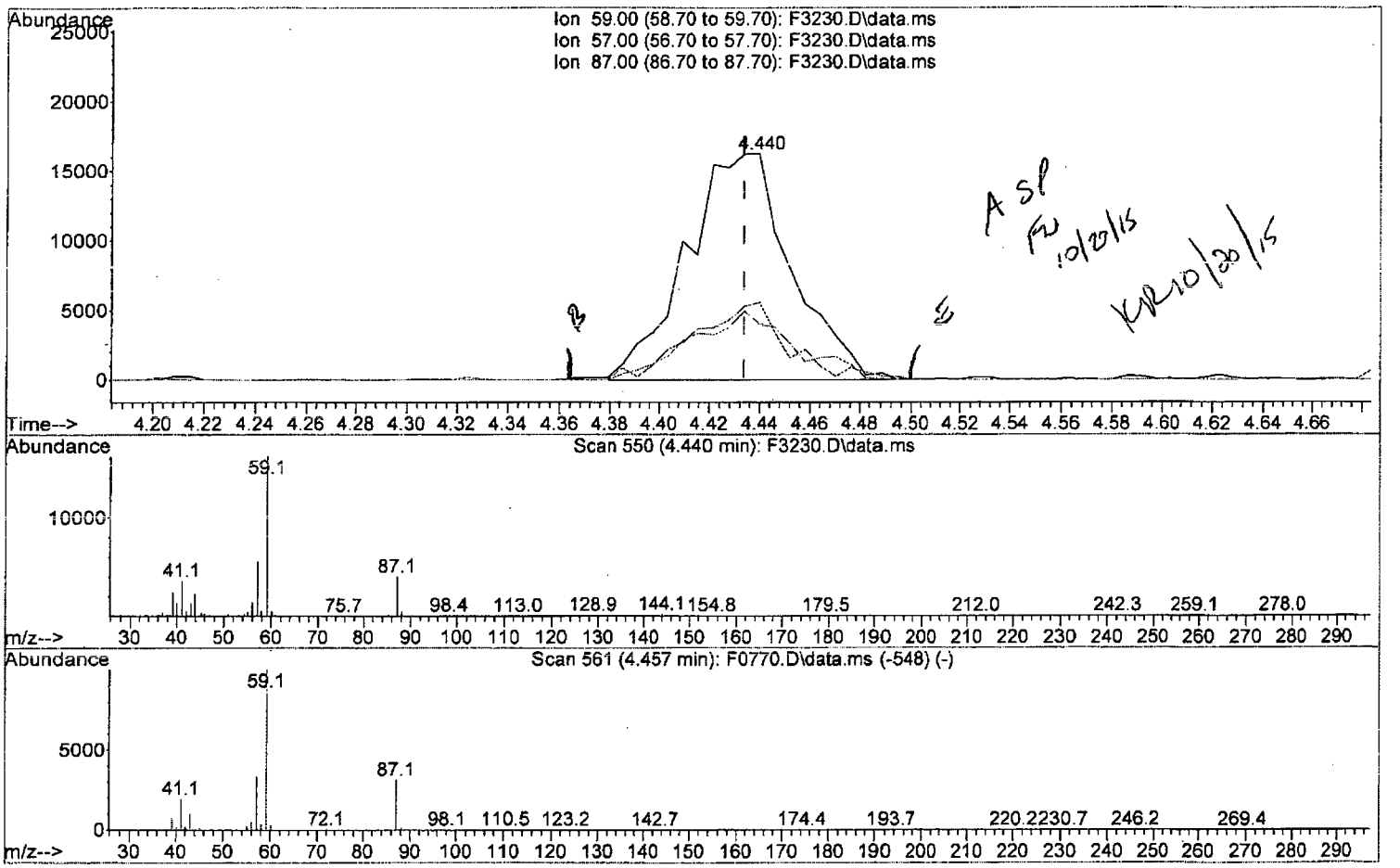
response 21948

Ion	Exp%	Act%
59.00	100	100
57.00	33.10	24.31
87.00	31.20	20.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(31) ETBE

4.440min (+0.006) 2.11 ug/L m

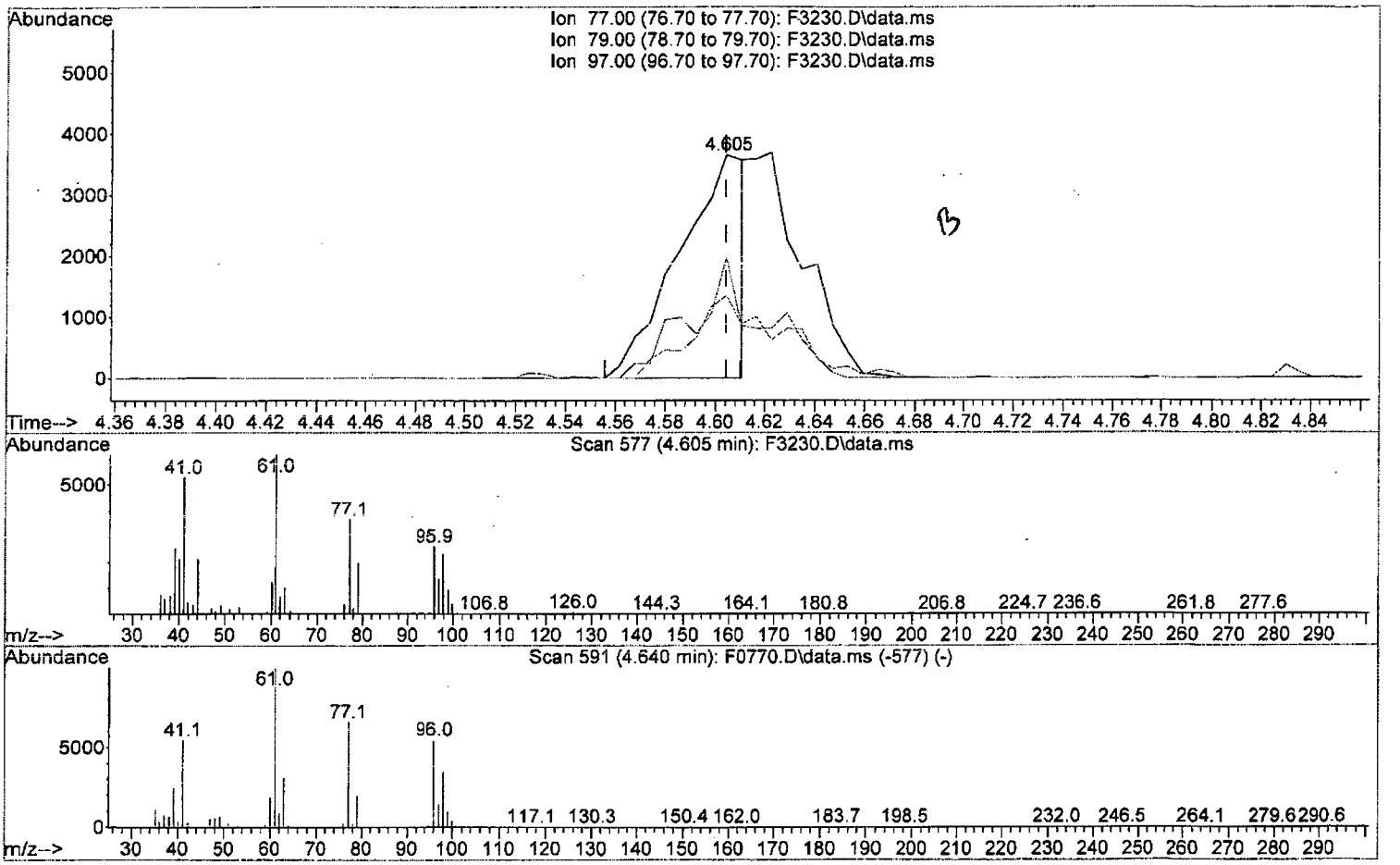
response 47017

Ion	Exp%	Act%
59.00	100	100
57.00	33.10	34.20
87.00	31.20	24.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(32) 2,2-Dichloropropane

4.605min (+0.000) 1.12 ug/L

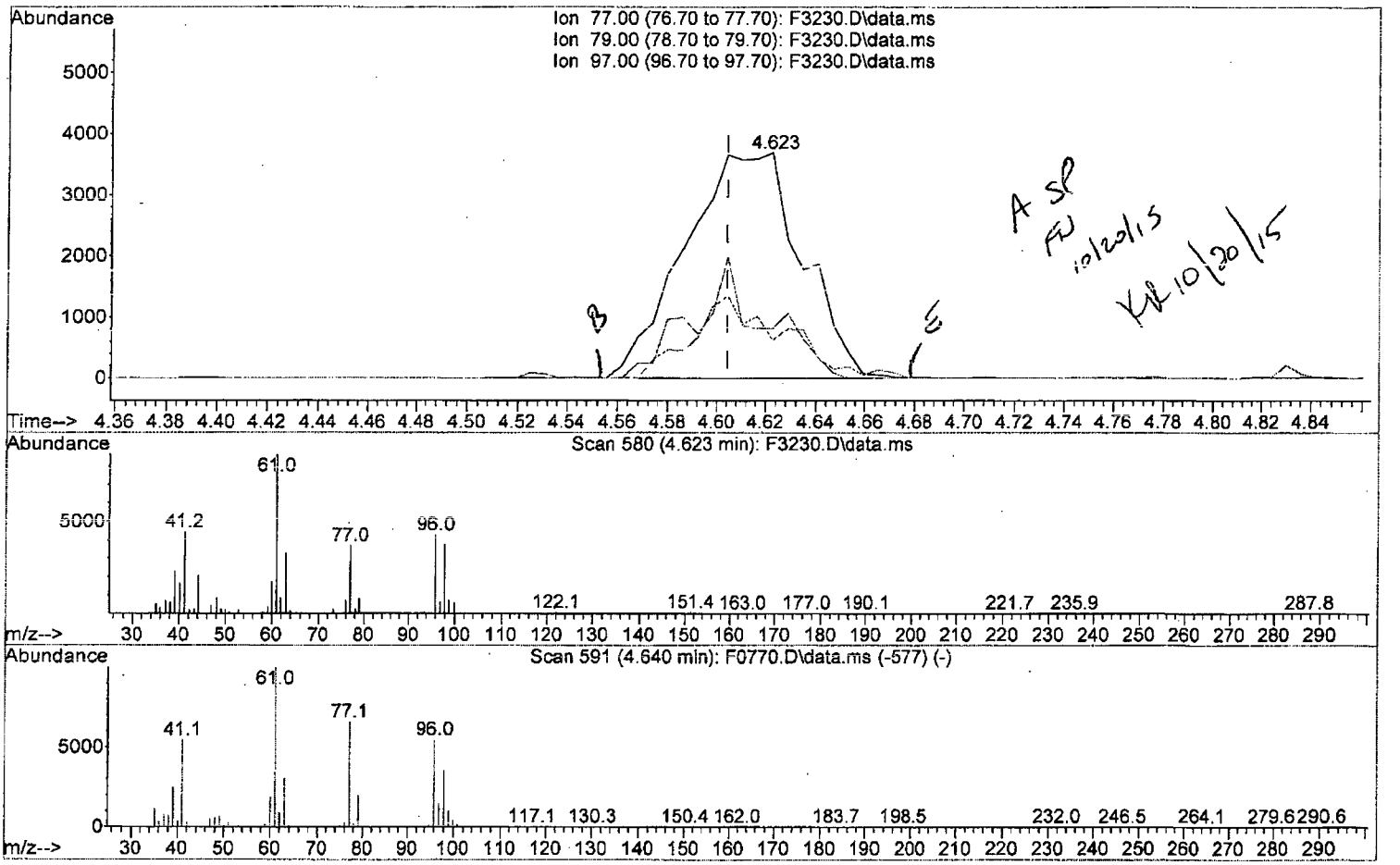
response 6689

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	54.03#
97.00	22.40	36.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(32) 2,2-Dichloropropane

4.623min (+0.018) 2.02 ug/L m

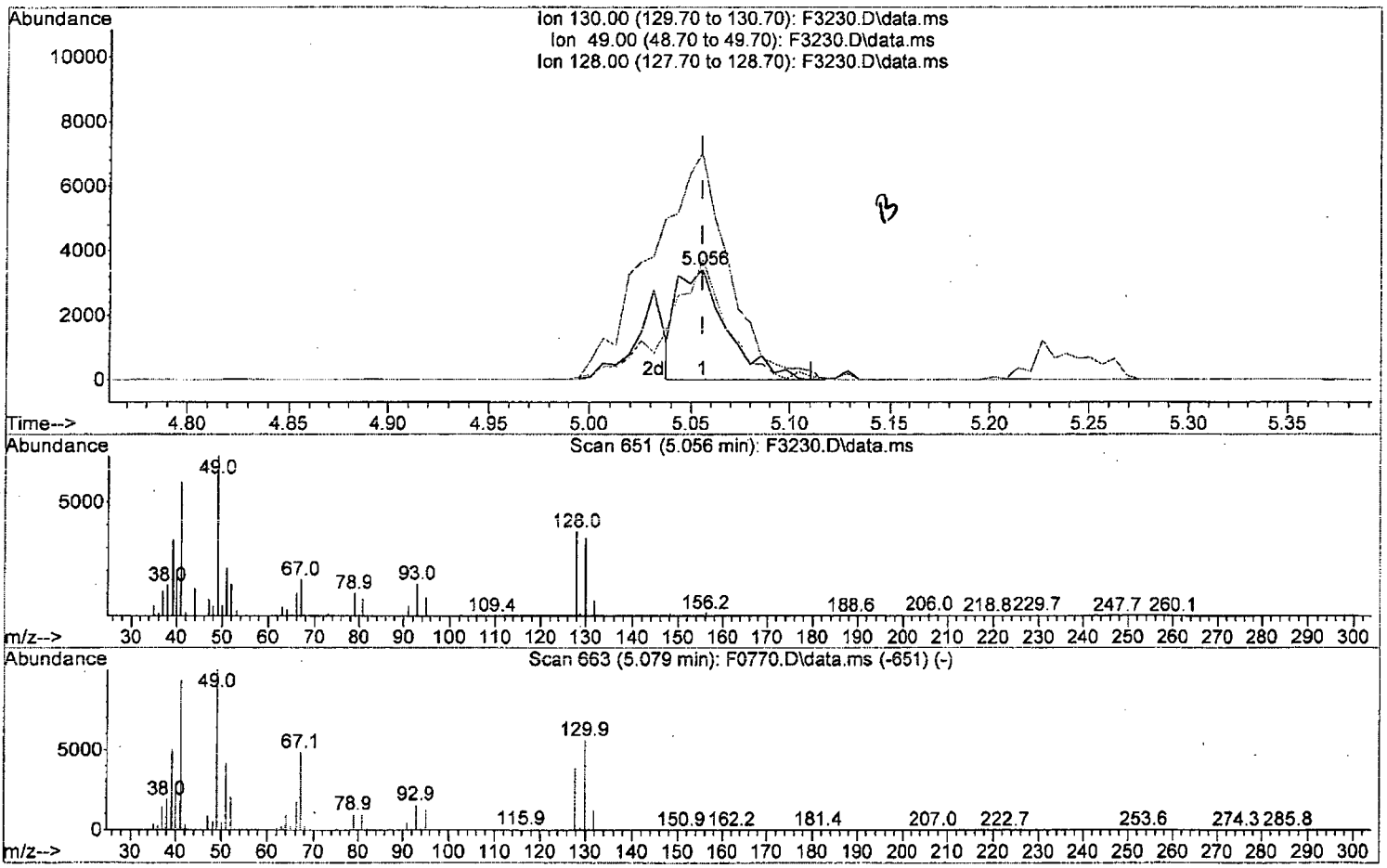
response 12024

Ion	Exp%	Act%
77.00	100	100
79.00	30.40	22.17
97.00	22.40	16.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(36) Bromochloromethane

5.056min (+0.000) 1.47 ug/L

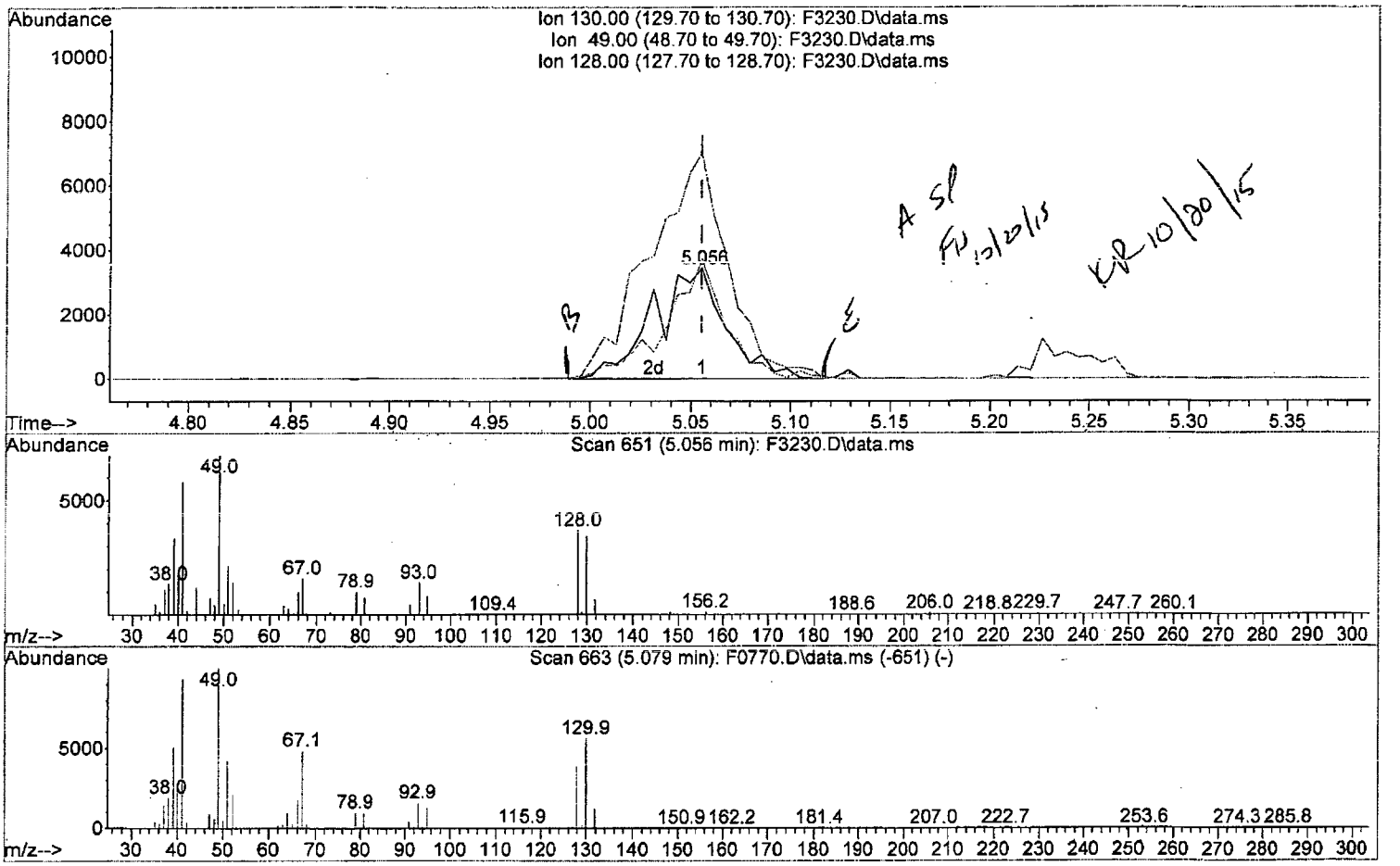
response 5931

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	204.62#
128.00	68.20	108.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(36) Bromochloromethane

5.056min (+0.000) 2.13 ug/L m

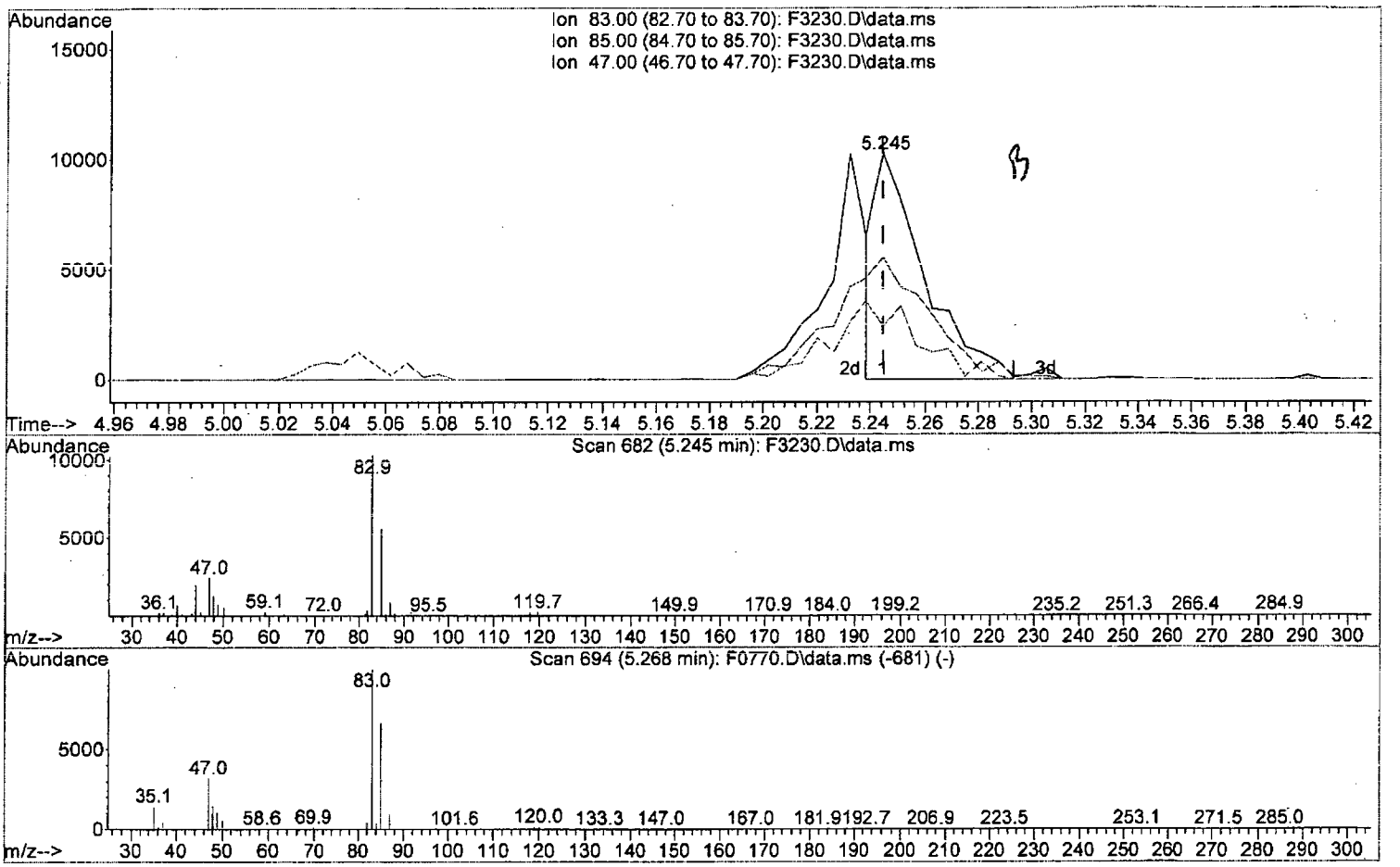
response 8578

Ion	Exp%	Act%
130.00	100	100
49.00	177.90	204.62#
128.00	68.20	108.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3230.D\data.ms

(39) Chloroform (P)

5.245min (+0.000) 1.15 ug/L

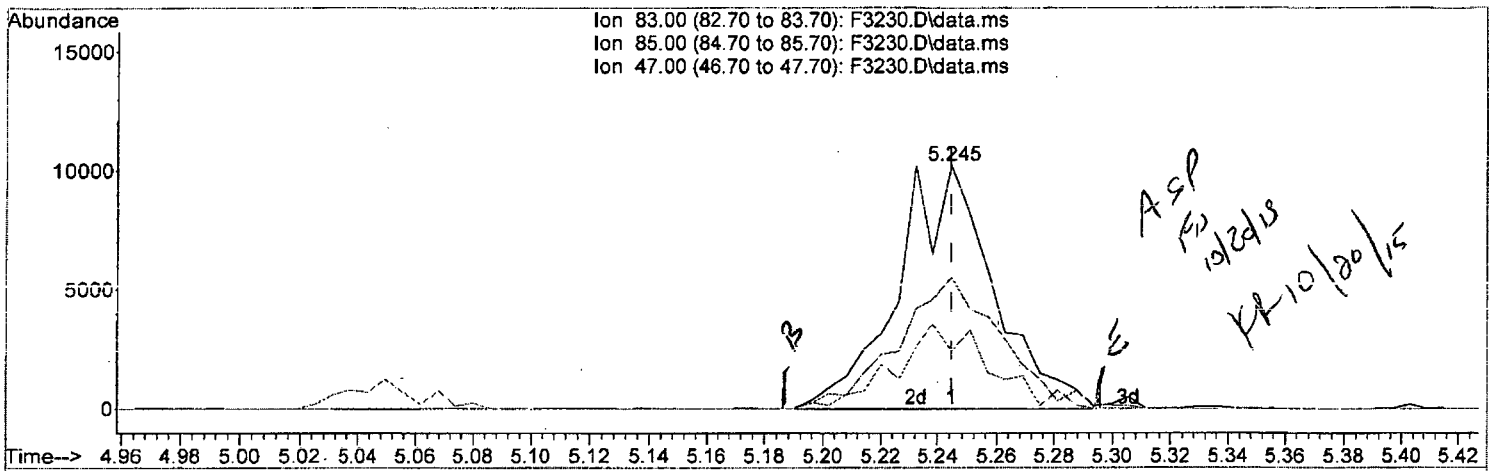
response 12481

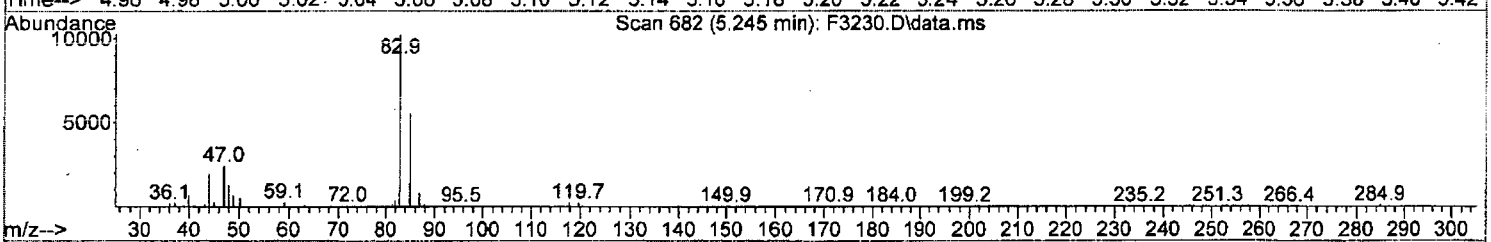
Ion	Exp%	Act%
83.00	100	100
85.00	66.10	53.95
47.00	31.90	23.60
0.00	0.00	0.00

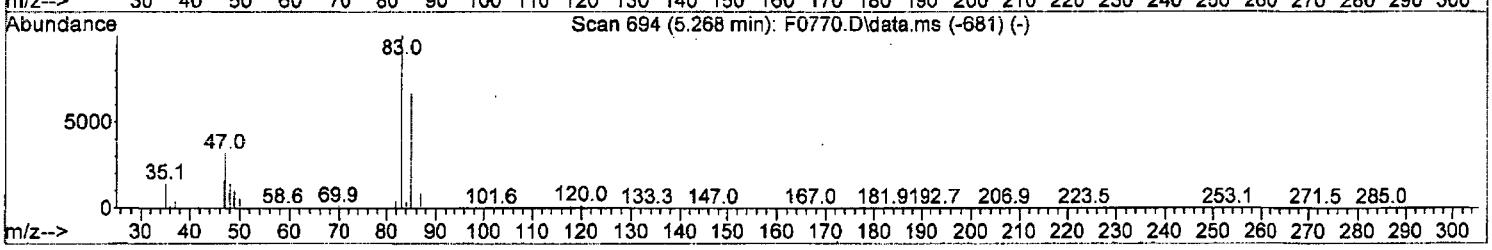
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 09:59:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3230.D\data.ms

(39) Chloroform (P)

5.245min (+0.000) 2.14 ug/L m

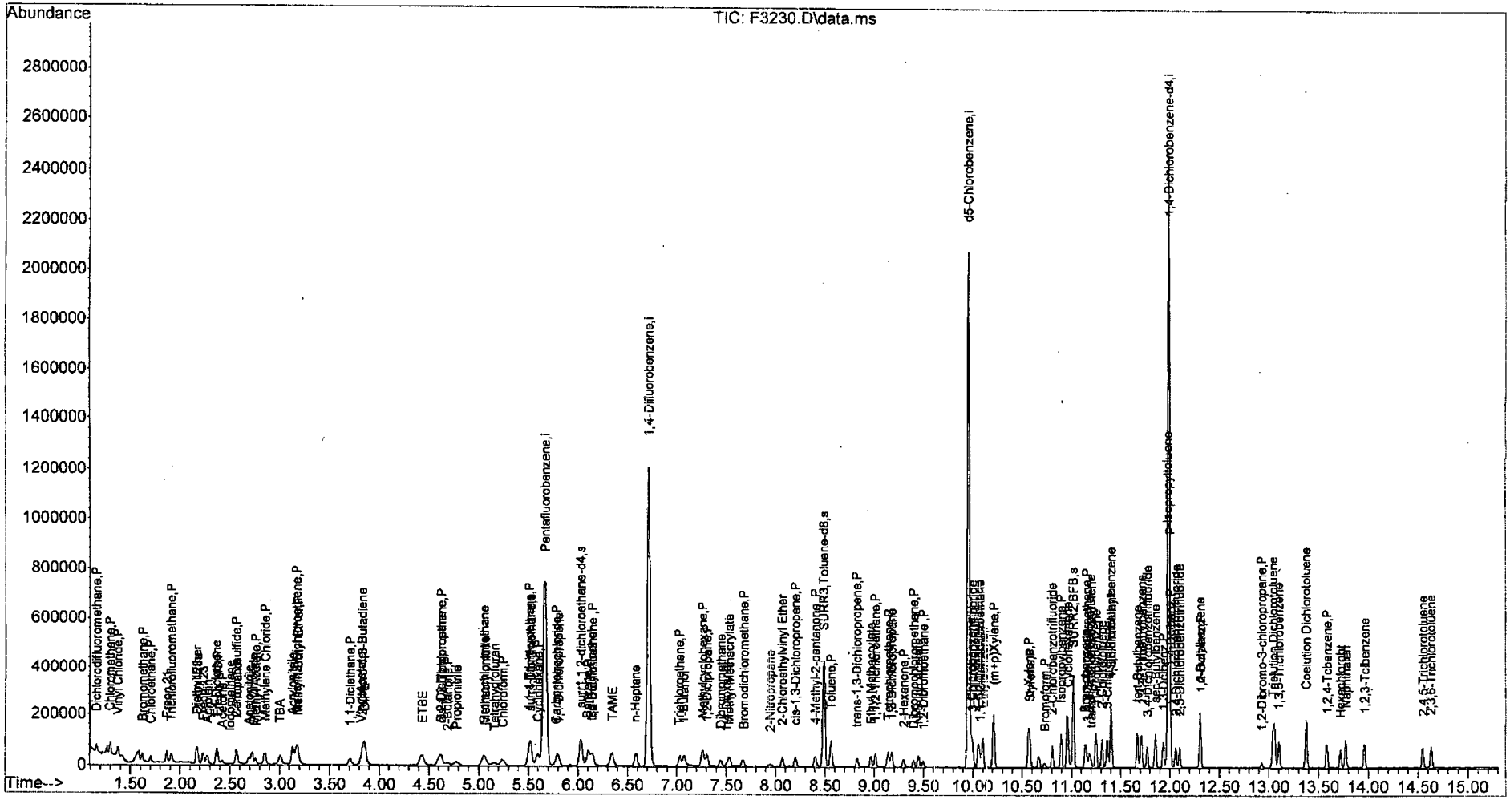
response 23265

Ion	Exp%	Act%
83.00	100	100
85.00	66.10	53.95
47.00	31.90	23.60
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3230.D
Acq On : 19 Oct 2015 7:11 pm
Operator : F. Naegler
Sample : 2.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 20 10:18:41 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:24:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FV 10/20/15
KR 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	659293	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	945711	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	841942	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	451553	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	61110	10.53	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 21.06%#				
46) surr1,1,2-dichloroetha...	6.031	65	83463	10.70	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 21.40%#				
64) SURR3,Toluene-d8	8.488	98	234670	10.89	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 21.78%#				
69) SURR2,BFB	11.018	95	87130	10.13	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 20.26%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	44948	4.81	ug/L		95
3) Chloromethane	1.294	50	76825	4.84	ug/L		99
4) Vinyl Chloride	1.379	62	54178	4.92	ug/L		94
5) Bromomethane	1.611	94	30890	6.42	ug/L		96
6) Chloroethane	1.697	64	29028	5.30	ug/L		92
7) Freon 21	1.867	67	71334	5.61	ug/L		93
8) Trichlorofluoromethane	1.910	101	45926	4.86	ug/L		92
9) Diethyl Ether	2.166	59	37472	4.90	ug/L	#	79
10) Freon 123a	2.172	67	45347	5.76	ug/L		88
11) Freon 123	2.233	83	43104	5.28	ug/L		96
12) Acrolein	2.276	56	59915	26.27	ug/L		98
13) 1,1-Diclethene	2.361	96	27555	5.26	ug/L		96
14) Freon 113	2.373	101	29743	5.08	ug/L		92
15) Acetone	2.416	43	34509	5.81	ug/L		94
16) 2-Propanol	2.574	45	96271	81.19	ug/L		98
17) Iodomethane	2.507	142	11615	1.68	ug/L		95
18) Carbon Disulfide	2.562	76	76821	5.00	ug/L		97
19) Acetonitrile	2.690	40	35843m	20.65	ug/L		
20) Allyl Chloride	2.721	76	14371	5.21	ug/L	#	8
21) Methyl Acetate	2.757	43	60596	4.97	ug/L		95
22) Methylene Chloride	2.849	84	34315	5.01	ug/L		94
23) TBA	3.013	59	111377	79.53	ug/L		91
24) Acrylonitrile	3.129	53	143072	25.72	ug/L		99
25) Methyl-t-Butyl Ether	3.184	73	106203	4.96	ug/L		98
26) trans-1,2-Dichloroethene	3.166	96	30161	5.08	ug/L		93
27) 1,1-Diclethane	3.708	63	59145	5.02	ug/L		98
28) Vinyl Acetate	3.824	86	6405	4.98	ug/L	#	18
29) DIPE	3.855	45	186530	5.28	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.842	53	79674	5.38	ug/L		96
31) ETBE	4.428	59	112958	5.27	ug/L		95
32) 2,2-Dichloropropane	4.604	77	30891	5.39	ug/L		83
33) cis-1,2-Dichloroethene	4.611	96	33151	5.68	ug/L	#	74
34) 2-Butanone	4.690	43	42450	5.03	ug/L		96
35) Propionitrile	4.769	54	58016	26.53	ug/L		92

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:24:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.056	130	22344	5.75	ug/L		92
37) Methacrylonitrile	5.062	67	21822	5.34	ug/L		94
38) Tetrahydrofuran	5.159	42	26172	4.78	ug/L		88
39) Chloroform	5.232	83	53759	5.14	ug/L		93
40) 1,1,1-Trichloroethane	5.507	97	42081	5.70	ug/L		99
42) Cyclohexane	5.598	41	53423	5.67	ug/L		90
44) Carbontetrachloride	5.781	121	9905	4.73	ug/L		88
45) 1,1-Dichloropropene	5.793	75	43608	5.28	ug/L		80
47) Benzene	6.104	78	136372	5.41	ug/L		81
48) 1,2-Dichloroethane	6.141	62	56059	5.24	ug/L		90
49) Iso-Butyl Alcohol	6.141	43	56839	69.97	ug/L		90
50) TAME	6.336	73	88735	4.87	ug/L		97
51) n-Heptane	6.586	43	68203	5.07	ug/L		91
52) 1-Butanol	7.074	56	68105	181.94	ug/L		99
53) Trichloroethene	7.031	130	35317	5.45	ug/L		86
54) Methylcyclohexane	7.263	55	57481	5.10	ug/L		96
55) 1,2-Diclpropane	7.299	63	38221	5.43	ug/L		86
56) Dibromomethane	7.439	93	19851	4.91	ug/L		88
57) 1,4-Dioxane	7.500	88	14619	90.70	ug/L		92
58) Methyl Methacrylate	7.531	69	26773	4.59	ug/L	#	76
59) Bromodichloromethane	7.665	83	35424	4.77	ug/L		97
60) 2-Nitropropane	7.945	41	12799	7.04	ug/L		91
61) 2-Chloroethylvinyl Ether	8.067	63	30037	5.16	ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	42465	4.74	ug/L		94
63) 4-Methyl-2-pentanone	8.403	43	76050	4.82	ug/L		88
65) Toluene	8.561	91	133758	5.17	ug/L		92
66) trans-1,3-Dichloropropene	8.829	75	32409	4.21	ug/L		95
67) Ethyl Methacrylate	8.963	69	42919	4.57	ug/L		97
68) 1,1,2-Trichloroethane	9.012	97	29706	4.90	ug/L		93
71) Tetrachloroethene	9.146	164	25536	4.91	ug/L		90
72) 2-Hexanone	9.299	43	56689	4.74	ug/L		90
73) 1,3-Dichloropropane	9.177	76	53134	5.05	ug/L		95
74) Dibromochloromethane	9.396	129	24955	4.28	ug/L		99
75) N-Butyl Acetate	9.451	43	80192	4.35	ug/L		95
76) 1,2-Dibromoethane	9.494	107	26767	4.55	ug/L		81
77) 3-Chlorobenzotrifluoride	10.000	180	51823	5.13	ug/L		94
78) Chlorobenzene	9.981	112	90163	5.08	ug/L		98
79) 4-Chlorobenzotrifluoride	10.055	180	43257m	4.72	ug/L		
80) 1,1,1,2-Tetrachloroethane	10.067	131	26580	4.87	ug/L		93
81) Ethylbenzene	10.097	106	47756	5.33	ug/L	#	78
82) (m+p)Xylene	10.207	106	116359	10.15	ug/L		97
83) o-Xylene	10.561	106	57734	5.08	ug/L		90
84) Styrene	10.579	104	98839	5.05	ug/L		97
85) Bromoform	10.731	173	16768	3.92	ug/L		86
86) 2-Chlorobenzotrifluoride	10.805	180	46923	4.69	ug/L		99
87) Isopropylbenzene	10.896	105	156968	5.29	ug/L		98
88) Cyclohexanone	10.957	55	209887	107.93	ug/L		93
89) trans-1,4-Dichloro-2-B...	11.201	53	14243	4.24	ug/L		83
91) 1,1,2,2-Tetrachloroethane	11.152	83	48873	5.35	ug/L		94
92) Bromobenzene	11.140	156	39388	5.20	ug/L		93
93) 1,2,3-Trichloropropane	11.182	110	14808	5.00	ug/L		92

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:24:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

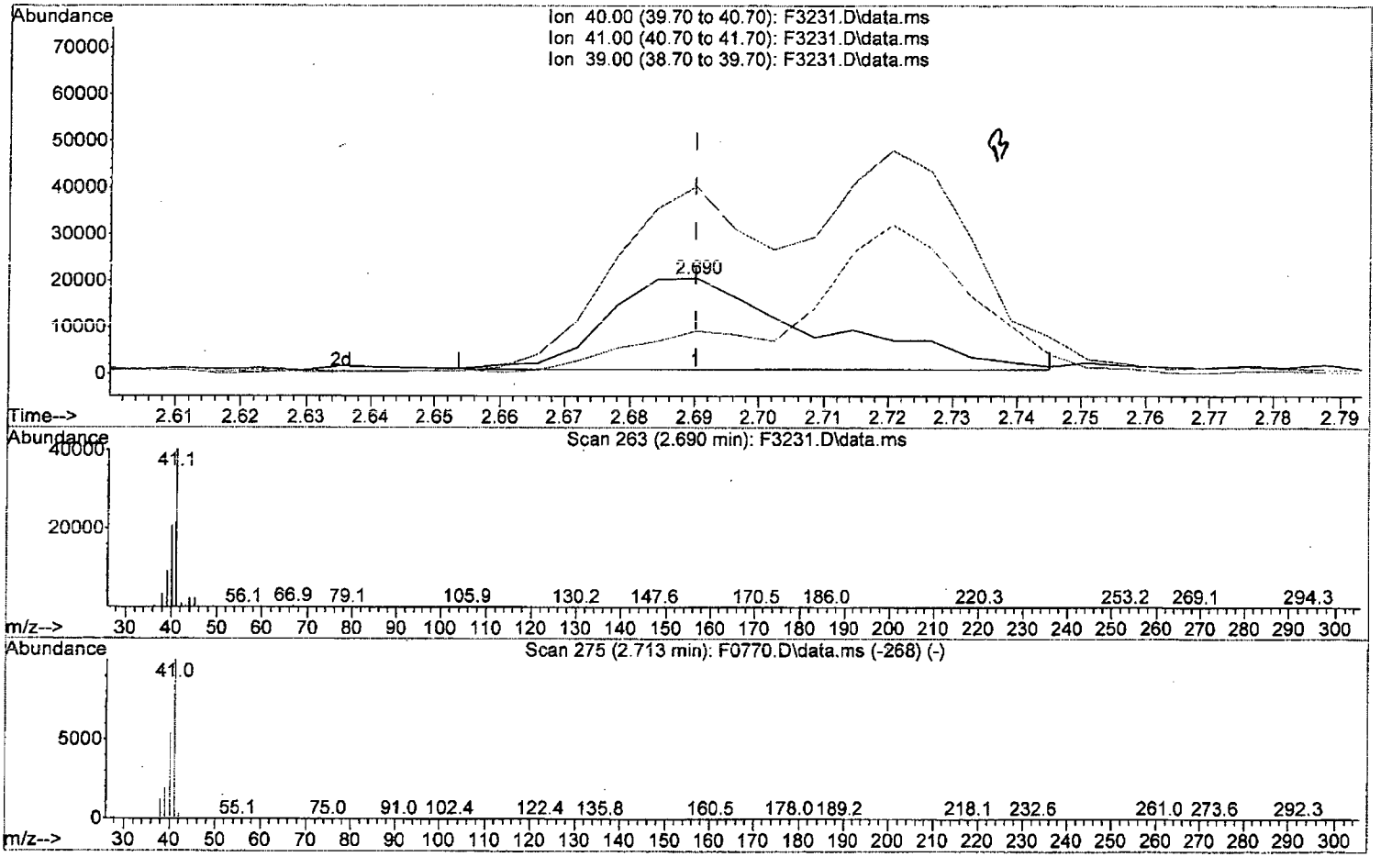
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.250	91	186776	5.53	ug/L		97
95)	2-Chlorotoluene	11.310	91	102173	5.22	ug/L		99
96)	3-Chlorotoluene	11.365	91	107844	5.23	ug/L		96
97)	4-Chlorotoluene	11.402	91	122981	5.28	ug/L		95
98)	1,3,5-Trimethylbenzene	11.402	105	126247	5.35	ug/L		93
99)	tert-Butylbenzene	11.670	119	117435	5.46	ug/L		99
100)	1,2,4-Trimethylbenzene	11.713	105	128260	5.25	ug/L		98
101)	3,4-Dichlorobenzotrifl...	11.768	214	38720	5.17	ug/L		90
102)	sec-Butylbenzene	11.853	105	162417	5.27	ug/L		99
103)	p-Isopropyltoluene	11.975	119	132081	5.27	ug/L		99
104)	1,3-Dclbenz	11.932	146	75023	5.23	ug/L		97
105)	1,4-Dclbenz	12.005	146	71633	4.92	ug/L		96
106)	2,4-Dichlorobenzotrifl...	12.060	214	34205	5.07	ug/L		82
107)	2,5-Dichlorobenzotrifl...	12.103	214	39373	5.10	ug/L		83
108)	n-Butylbenzene	12.304	91	120129	5.15	ug/L		97
109)	1,2-Dclbenz	12.310	146	72394	5.09	ug/L		92
110)	1,2-Dibromo-3-chloropr...	12.926	157	6479	3.35	ug/L	#	81
111)	Trielution Dichlorotol...	13.048	125	206517	15.78	ug/L		99
112)	1,3,5-Trichlorobenzene	13.103	180	58320	5.09	ug/L		96
113)	Coelution Dichlorotoluene	13.377	125	157011	10.72	ug/L		97
114)	1,2,4-Tcbenzene	13.578	180	55333	5.05	ug/L		91
115)	Hexachlorobt	13.719	225	25313	5.26	ug/L		84
116)	Naphthalen	13.773	128	174994	5.33	ug/L		99
117)	1,2,3-Tclbenzene	13.962	180	56839	5.05	ug/L		90
118)	2,4,5-Trichlorotoluene	14.542	159	43170	5.07	ug/L		94
119)	2,3,6-Trichlorotoluene	14.633	159	38617	4.99	ug/L		97

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3231.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 25.19 ug/L

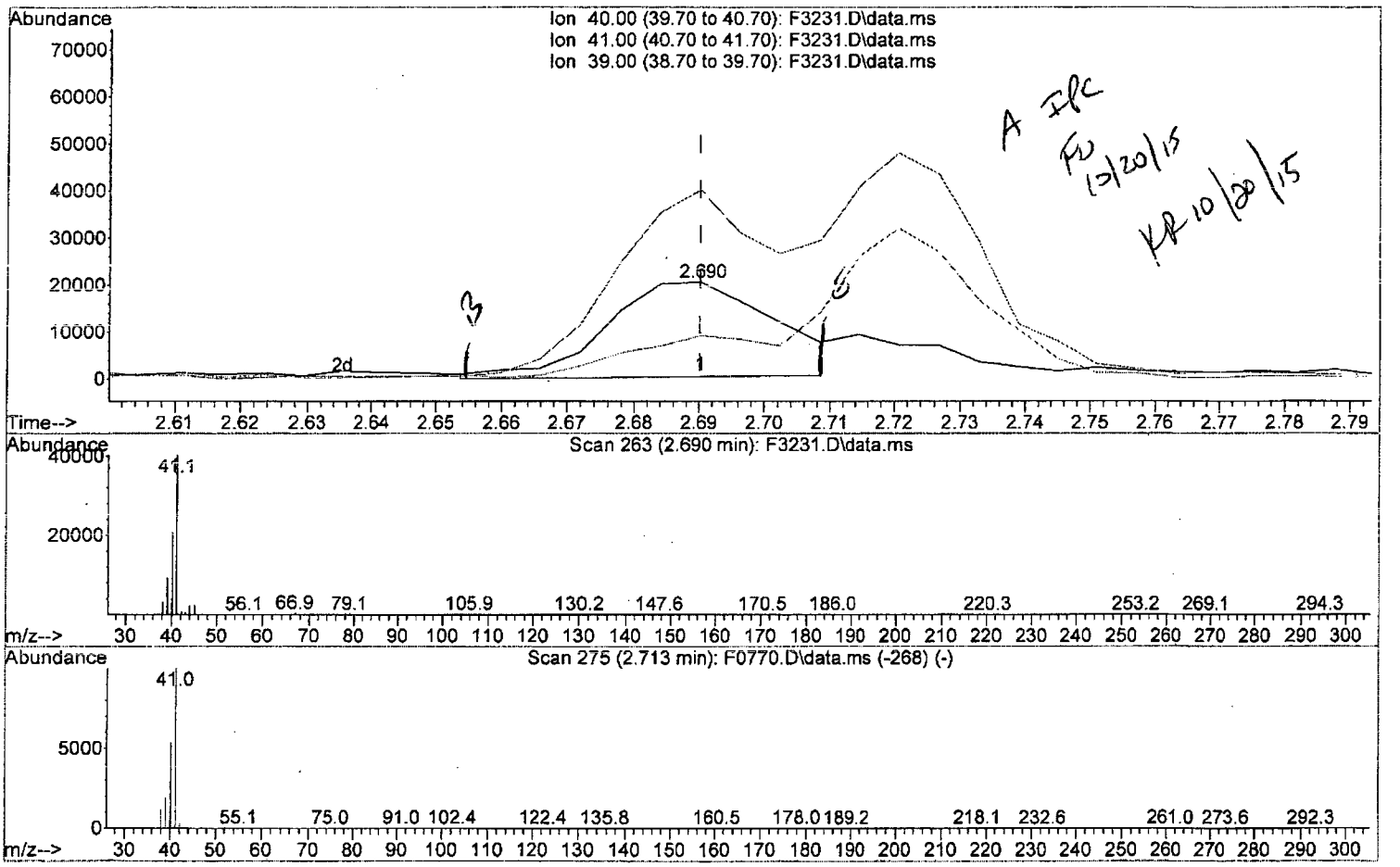
response 43729

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	195.37
39.00	35.30	44.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3231.D\data.ms

(19) Acetonitrile

2.690min (+0.000) 20.65 ug/L m

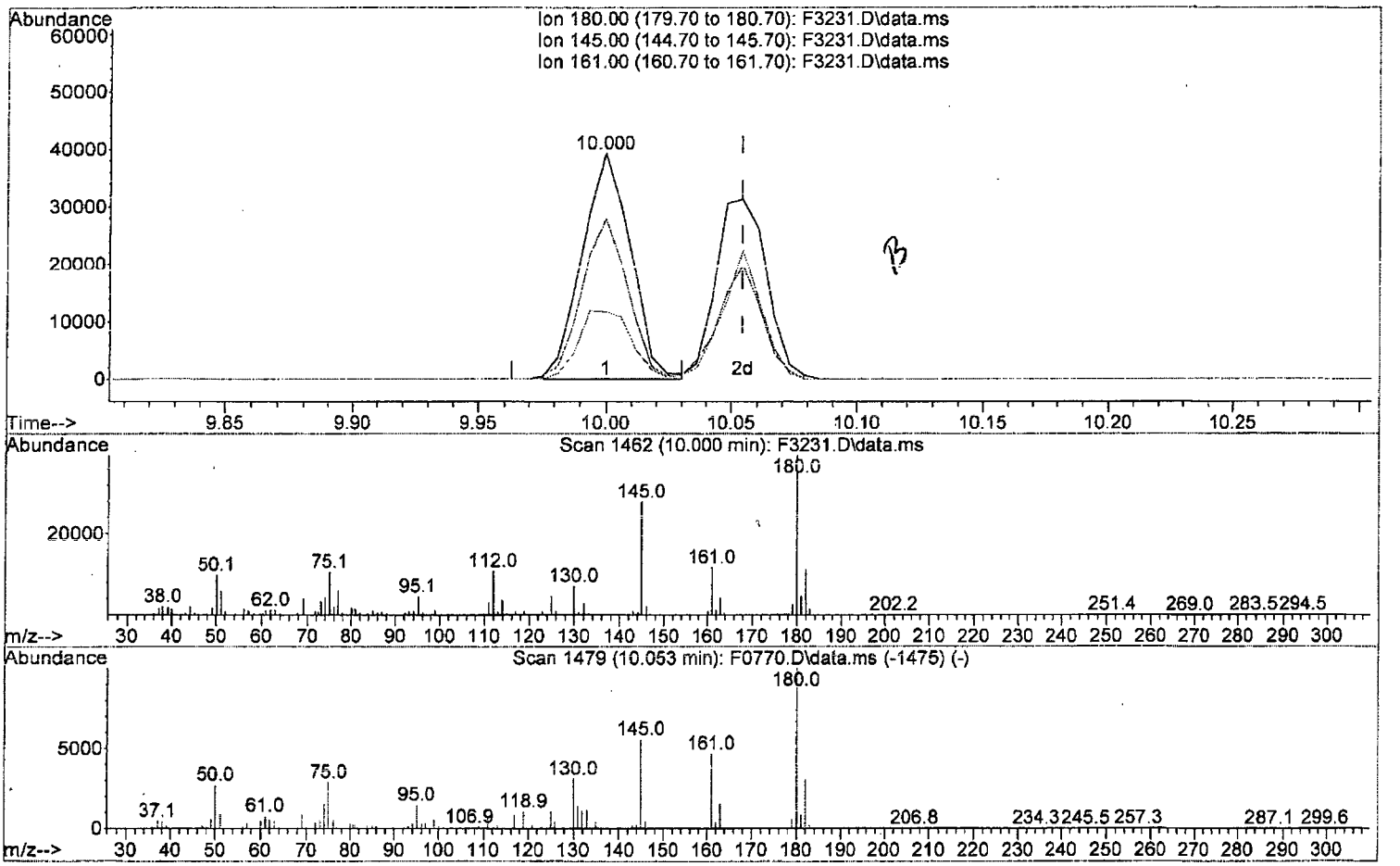
response 35843

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	195.37
39.00	35.30	44.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3231.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.000min (-0.055) 5.66 ug/L

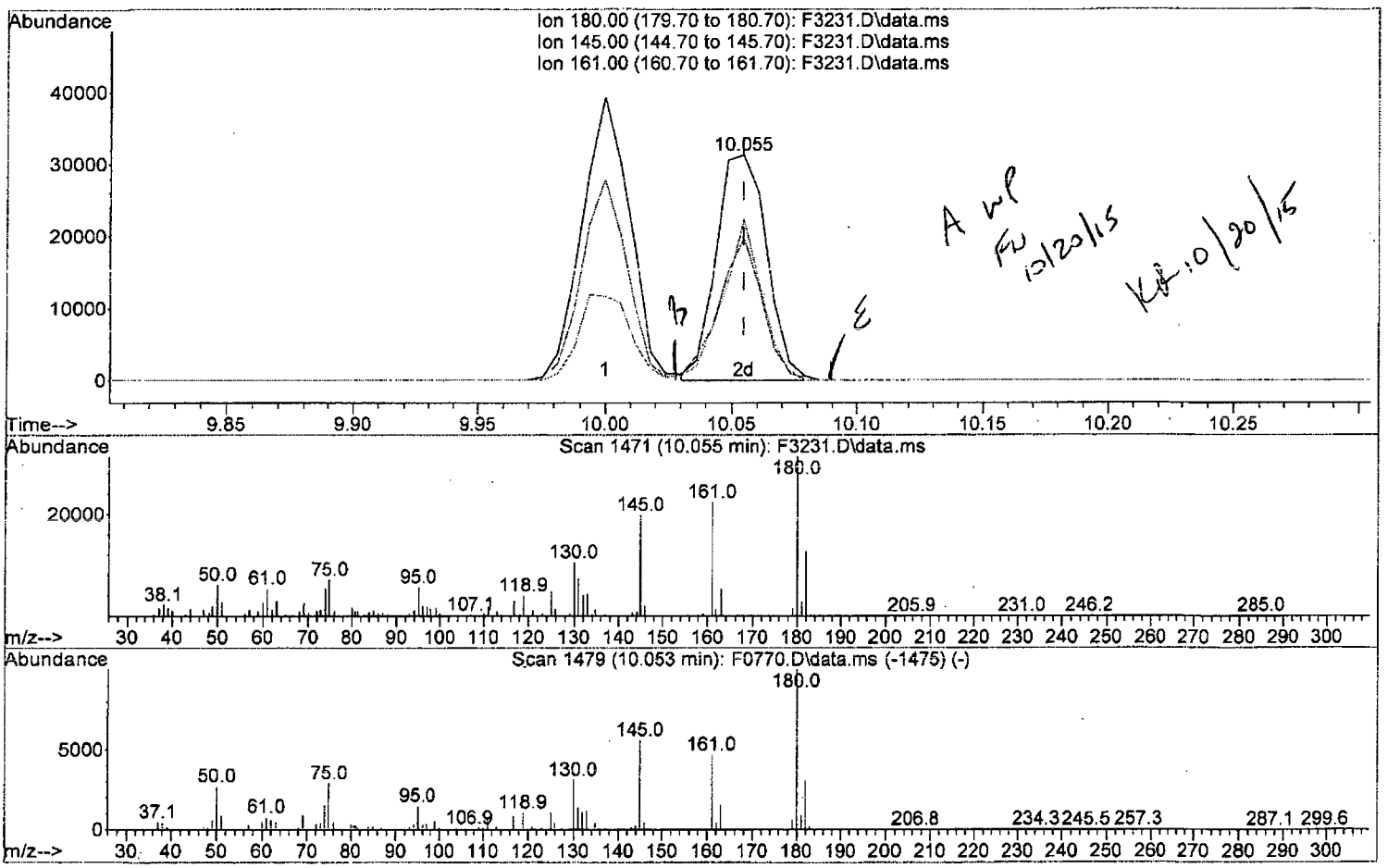
response 51823

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	70.91
161.00	46.60	29.67
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 09:59:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



A wl
FW 10/20/15
KH 10/20/15

TIC: F3231.D\data.ms

(79) 4-Chlorobenzotrifluoride

10.055min (+0.000) 4.72 ug/L m

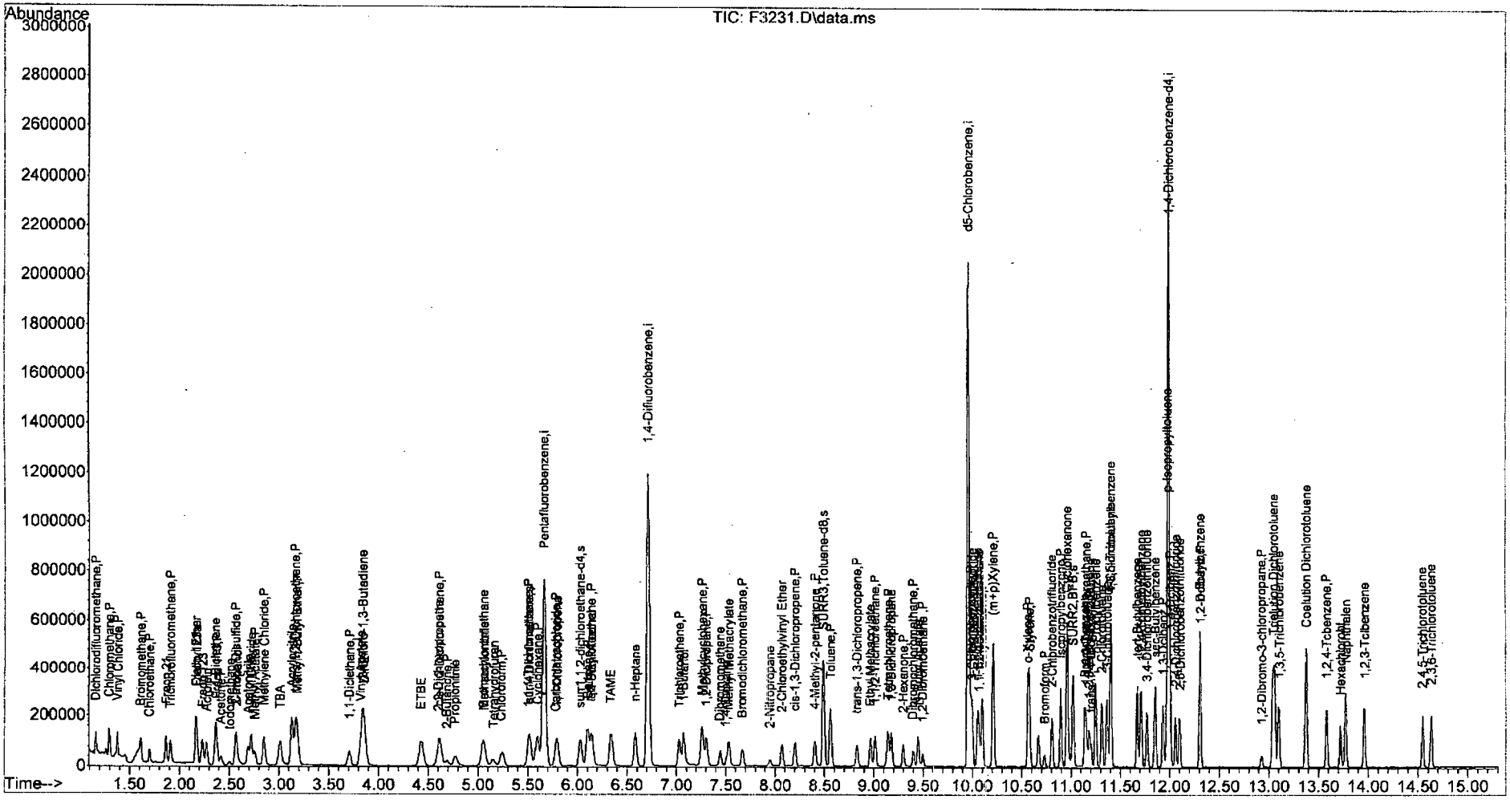
response 43257

Ion	Exp%	Act%
180.00	100	100
145.00	55.90	63.36
161.00	46.60	71.45#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3231.D
Acq On : 19 Oct 2015 7:35 pm
Operator : F. Naegler
Sample : 5.0 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 20 10:24:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3232.D
Acq On : 19 Oct 2015 8:00 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FD 10/20/15
KB 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.671	168	711499	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	1010205	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	885467	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	471983	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	111374	17.97	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	35.94%#			
46) surr1,1,2-dichloroetha...	6.031	65	153693	18.44	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery =	36.88%#			
64) SURR3,Toluene-d8	8.488	98	423775	18.41	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	36.82%#			
69) SURR2,BFB	11.018	95	165398	17.99	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	35.98%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	222356	22.06	ug/L		99
3) Chloromethane	1.294	50	361099	21.06	ug/L		100
4) Vinyl Chloride	1.379	62	256431	21.58	ug/L		91
5) Bromomethane	1.617	94	115868	22.32	ug/L		99
6) Chloroethane	1.702	64	124524	21.06	ug/L		98
7) Freon 21	1.867	67	265581	19.35	ug/L		99
8) Trichlorofluoromethane	1.916	101	218730	21.44	ug/L		98
9) Diethyl Ether	2.166	59	173284	20.99	ug/L		90
10) Freon 123a	2.172	67	162161	19.10	ug/L		96
11) Freon 123	2.233	83	165456	18.80	ug/L		96
12) Acrolein	2.269	56	242113	98.37	ug/L		95
13) 1,1-Diclethene	2.367	96	121403	21.46	ug/L		91
14) Freon 113	2.373	101	128297	20.31	ug/L		88
15) Acetone	2.416	43	121437	18.93	ug/L		98
16) 2-Propanol	2.568	45	421193	329.14	ug/L		91
17) Iodomethane	2.507	142	140578	18.80	ug/L		99
18) Carbon Disulfide	2.562	76	328922	19.84	ug/L		98
19) Acetonitrile	2.684	40	160809	85.83	ug/L		95
20) Allyl Chloride	2.727	76	68543	23.02	ug/L	#	23
21) Methyl Acetate	2.757	43	245764	18.69	ug/L		99
22) Methylene Chloride	2.855	84	143347	19.38	ug/L		92
23) TBA	3.007	59	515956	341.41	ug/L		83
24) Acrylonitrile	3.129	53	628224	104.67	ug/L		98
25) Methyl-t-Butyl Ether	3.184	73	480946	20.82	ug/L		98
26) trans-1,2-Dichloroethene	3.166	96	134466	20.99	ug/L		96
27) 1,1-Diclethane	3.708	63	275001	21.63	ug/L		97
28) Vinyl Acetate	3.812	86	27766	20.00	ug/L	#	82
29) DIPE	3.855	45	737908	19.34	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.836	53	314294	19.67	ug/L		99
31) ETBE	4.428	59	458626	19.85	ug/L		96
32) 2,2-Dichloropropane	4.610	77	134564	21.76	ug/L		96
33) cis-1,2-Dichloroethene	4.623	96	146195	23.21	ug/L	#	75
34) 2-Butanone	4.678	43	167619	18.40	ug/L		99
35) Propionitrile	4.769	54	243544	103.20	ug/L		98

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3232.D
Acq On : 19 Oct 2015 8:00 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	98275	23.45	ug/L		90
37) Methacrylonitrile	5.062	67	89748	20.36	ug/L	#	76
38) Tetrahydrofuran	5.147	42	113891	19.26	ug/L		95
39) Chloroform	5.245	83	256730	22.74	ug/L		93
40) 1,1,1-Trichloroethane	5.513	97	187562	23.56	ug/L		95
42) Cyclohexane	5.598	41	209454	20.82	ug/L		94
44) Carbontetrachloride	5.781	121	41620	18.59	ug/L		95
45) 1,1-Dichloropropene	5.799	75	182767	20.73	ug/L		98
47) Benzene	6.104	78	576234	21.40	ug/L		88
48) 1,2-Dichloroethane	6.147	62	240340	21.01	ug/L		95
49) Iso-Butyl Alcohol	6.141	43	280281	322.98	ug/L		99
50) TAME	6.342	73	367631	18.91	ug/L		95
51) n-Heptane	6.586	43	305383	21.25	ug/L		87
52) 1-Butanol	7.073	56	317361	793.67	ug/L		93
53) Trichloroethene	7.031	130	147623	21.32	ug/L		97
54) Methylcyclohexane	7.256	55	238137	19.76	ug/L		94
55) 1,2-Diclpropane	7.305	63	162195	21.56	ug/L		89
56) Dibromomethane	7.445	93	96156	22.25	ug/L		91
57) 1,4-Dioxane	7.500	88	66896	388.55	ug/L		99
58) Methyl Methacrylate	7.531	69	126014	20.21	ug/L	#	84
59) Bromodichloromethane	7.671	83	162976	20.56	ug/L		98
60) 2-Nitropropane	7.945	41	66538	34.26	ug/L		97
61) 2-Chloroethylvinyl Ether	8.067	63	119172	19.15	ug/L		90
62) cis-1,3-Dichloropropene	8.201	75	204665	21.39	ug/L		95
63) 4-Methyl-2-pentanone	8.402	43	319754	18.98	ug/L		97
65) Toluene	8.561	91	593354	21.45	ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	162245	19.72	ug/L		97
67) Ethyl Methacrylate	8.963	69	198754	19.80	ug/L		86
68) 1,1,2-Trichloroethane	9.012	97	136024	21.00	ug/L		87
71) Tetrachloroethene	9.146	164	116185	21.22	ug/L	#	85
72) 2-Hexanone	9.299	43	235074	18.68	ug/L		93
73) 1,3-Dichloropropane	9.177	76	240154	21.70	ug/L		95
74) Dibromochloromethane	9.402	129	125908	20.53	ug/L		97
75) N-Butyl Acetate	9.451	43	389182	20.06	ug/L		94
76) 1,2-Dibromoethane	9.494	107	132222	21.39	ug/L		91
77) 3-Chlorobenzotrifluoride	10.000	180	213648	20.11	ug/L		96
78) Chlorobenzene	9.981	112	383415	20.54	ug/L		97
79) 4-Chlorobenzotrifluoride	10.055	180	193584	20.09	ug/L		96
80) 1,1,1,2-Tetrachloroethane	10.067	131	116411	20.27	ug/L		97
81) Ethylbenzene	10.097	106	204287	21.66	ug/L		95
82) (m+p)Xylene	10.213	106	516795	42.85	ug/L		94
83) o-Xylene	10.567	106	259736	21.71	ug/L		100
84) Styrene	10.579	104	434100	21.08	ug/L		97
85) Bromoform	10.731	173	84018	18.68	ug/L		94
86) 2-Chlorobenzotrifluoride	10.810	180	209364	19.88	ug/L		97
87) Isopropylbenzene	10.896	105	679165	21.75	ug/L		98
88) Cyclohexanone	10.957	55	885395	432.91	ug/L		91
89) trans-1,4-Dichloro-2-B...	11.201	53	74900	21.19	ug/L		78
91) 1,1,2,2-Tetrachloroethane	11.152	83	206216	21.60	ug/L		96
92) Bromobenzene	11.140	156	177310	22.40	ug/L		95
93) 1,2,3-Trichloropropane	11.182	110	66816	21.58	ug/L		98

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3232.D
Acq On : 19 Oct 2015 8:00 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

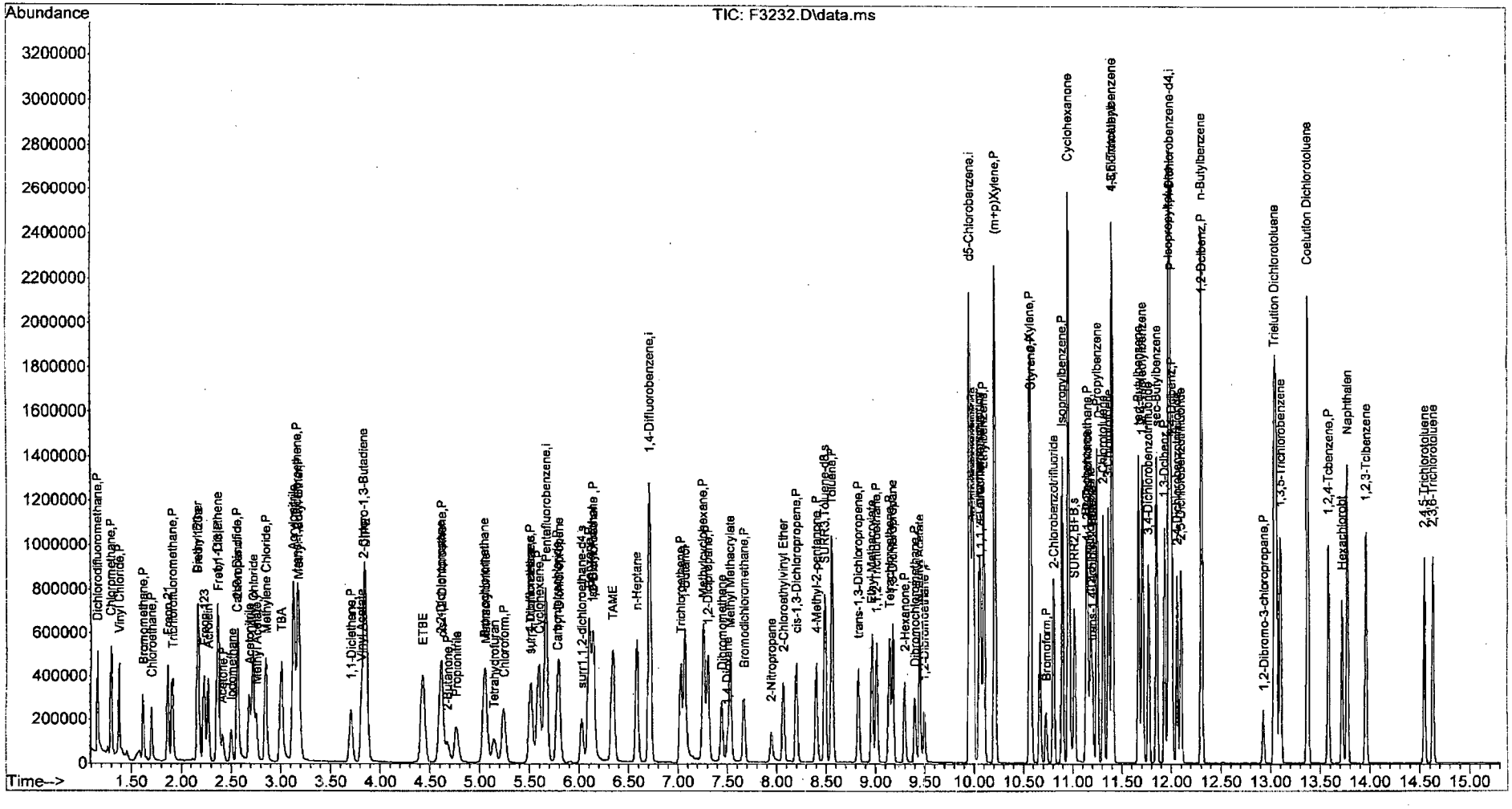
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
94)	n-Propylbenzene	11.249	91	807315	22.86	ug/L		97
95)	2-Chlorotoluene	11.310	91	454394	22.22	ug/L		97
96)	3-Chlorotoluene	11.365	91	462136	21.46	ug/L		97
97)	4-Chlorotoluene	11.402	91	526181	21.62	ug/L		99
98)	1,3,5-Trimethylbenzene	11.402	105	542297	21.97	ug/L		98
99)	tert-Butylbenzene	11.670	119	500892	22.27	ug/L		97
100)	1,2,4-Trimethylbenzene	11.707	105	570129	22.33	ug/L		97
101)	3,4-Dichlorobenzotrifl...	11.768	214	164591	21.02	ug/L		93
102)	sec-Butylbenzene	11.853	105	725486	22.51	ug/L		98
103)	p-Isopropyltoluene	11.975	119	588867	22.48	ug/L		99
104)	1,3-Dclbenz	11.932	146	313500	20.91	ug/L		95
105)	1,4-Dclbenz	12.005	146	320272	21.05	ug/L		95
106)	2,4-Dichlorobenzotrifl...	12.060	214	151211	21.45	ug/L		96
107)	2,5-Dichlorobenzotrifl...	12.097	214	173056	21.44	ug/L		97
108)	n-Butylbenzene	12.304	91	542320	22.23	ug/L		98
109)	1,2-Dclbenz	12.310	146	324560	21.84	ug/L		95
110)	1,2-Dibromo-3-chloropr...	12.932	157	38602	19.07	ug/L	#	80
111)	Trielution Dichlorotol...	13.042	125	899349	65.76	ug/L		93
112)	1,3,5-Trichlorobenzene	13.103	180	250338	20.91	ug/L		95
113)	Coelution Dichlorotoluene	13.371	125	672367	43.91	ug/L		99
114)	1,2,4-Tcbenzene	13.584	180	246182	21.50	ug/L		98
115)	Hexachlorobt	13.718	225	105015	20.87	ug/L		95
116)	Naphthalen	13.773	128	768047	22.36	ug/L		99
117)	1,2,3-Tclbenzene	13.962	180	259904	22.08	ug/L		97
118)	2,4,5-Trichlorotoluene	14.548	159	192029	21.60	ug/L		90
119)	2,3,6-Trichlorotoluene	14.633	159	175275	21.68	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3232.D
Acq On : 19 Oct 2015 8:00 pm
Operator : F. Naegler
Sample : 20 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 20 10:00:08 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:26:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FN 10/20/15
KH 10/20/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	686550	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	983338	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	882179	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	479716	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	303360	50.29	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.58%			
46) surr1,1,2-dichloroetha...	6.031	65	407416	50.22	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.44%			
64) SURR3,Toluene-d8	8.488	98	1140573	50.91	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.82%			
69) SURR2,BFB	11.018	95	440997	49.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	511947	52.63	ug/L	96
3) Chloromethane	1.294	50	833998	50.42	ug/L	98
4) Vinyl Chloride	1.373	62	571441	49.84	ug/L	92
5) Bromomethane	1.611	94	203871	40.70	ug/L	98
6) Chloroethane	1.697	64	285907	50.11	ug/L	94
7) Freon 21	1.861	67	663059	50.07	ug/L	99
8) Trichlorofluoromethane	1.910	101	502678	51.07	ug/L	100
9) Diethyl Ether	2.166	59	401913	50.45	ug/L	91
10) Freon 123a	2.172	67	399424	48.74	ug/L	96
11) Freon 123	2.233	83	415590	48.93	ug/L	95
12) Acrolein	2.270	56	605570	254.99	ug/L	94
13) 1,1-Diclethene	2.361	96	271311	49.69	ug/L	89
14) Freon 113	2.373	101	287707	47.19	ug/L	95
15) Acetone	2.416	43	304420	49.18	ug/L	97
16) 2-Propanol	2.574	45	1242167	1005.98	ug/L	92
17) Iodomethane	2.501	142	467933	64.85	ug/L	94
18) Carbon Disulfide	2.562	76	794314	49.65	ug/L	100
19) Acetonitrile	2.684	40	381136m	210.83	ug/L	
20) Allyl Chloride	2.727	76	157013	54.66	ug/L #	19
21) Methyl Acetate	2.751	43	640778	50.50	ug/L	96
22) Methylene Chloride	2.849	84	330223	46.27	ug/L #	89
23) TBA	3.013	59	1520098	1042.40	ug/L	88
24) Acrylonitrile	3.129	53	1525329	263.37	ug/L	98
25) Methyl-t-Butyl Ether	3.178	73	1135616	50.95	ug/L	98
26) trans-1,2-Dichloroethene	3.166	96	296725	48.01	ug/L	97
27) 1,1-Diclethane	3.702	63	627939	51.19	ug/L	97
28) Vinyl Acetate	3.818	86	72037	53.77	ug/L #	90
29) DIPE	3.855	45	1782209	48.41	ug/L	98
30) 2-Chloro-1,3-Butadiene	3.842	53	768677	49.85	ug/L	97
31) ETBE	4.428	59	1184567	53.12	ug/L	99
32) 2,2-Dichloropropane	4.611	77	330307	55.34	ug/L	98
33) cis-1,2-Dichloroethene	4.623	96	331853	54.59	ug/L	89
34) 2-Butanone	4.678	43	422353	48.04	ug/L	99
35) Propionitrile	4.769	54	620275	272.38	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:26:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.050	130	229083	56.64	ug/L	#	84
37) Methacrylonitrile	5.062	67	217090	51.05	ug/L	#	71
38) Tetrahydrofuran	5.135	42	294537	51.62	ug/L		94
39) Chloroform	5.245	83	563630	51.74	ug/L		97
40) 1,1,1-Trichloroethane	5.513	97	442483	57.60	ug/L		95
42) Cyclohexane	5.592	41	510056	52.08	ug/L		99
44) Carbontetrachloride	5.781	121	113723	52.18	ug/L		97
45) 1,1-Dichloropropene	5.799	75	416979	48.60	ug/L		96
47) Benzene	6.104	78	1287753	49.13	ug/L		88
48) 1,2-Dichloroethane	6.147	62	563412	50.60	ug/L		98
49) Iso-Butyl Alcohol	6.147	43	871161	1031.31	ug/L		98
50) TAME	6.342	73	948001	50.09	ug/L		95
51) n-Heptane	6.586	43	680743	48.65	ug/L		93
52) 1-Butanol	7.074	56	1129233	2901.20	ug/L		85
53) Trichloroethene	7.031	130	343599	50.98	ug/L		94
54) Methylcyclohexane	7.263	55	568095	48.43	ug/L		96
55) 1,2-Diclpropane	7.305	63	378100	51.64	ug/L		97
56) Dibromomethane	7.445	93	217524	51.70	ug/L	#	83
57) 1,4-Dioxane	7.500	88	164773	983.18	ug/L		91
58) Methyl Methacrylate	7.531	69	308117	50.78	ug/L	#	79
59) Bromodichloromethane	7.671	83	397502	51.53	ug/L		96
60) 2-Nitropropane	7.945	41	189032	99.99	ug/L		100
61) 2-Chloroethylvinyl Ether	8.067	63	306850	50.65	ug/L		92
62) cis-1,3-Dichloropropene	8.201	75	506094	54.34	ug/L		98
63) 4-Methyl-2-pentanone	8.403	43	793800	48.41	ug/L		95
65) Toluene	8.561	91	1352198	50.22	ug/L		100
66) trans-1,3-Dichloropropene	8.829	75	433908	54.19	ug/L		98
67) Ethyl Methacrylate	8.970	69	530714	54.33	ug/L		90
68) 1,1,2-Trichloroethane	9.012	97	318299	50.49	ug/L		86
71) Tetrachloroethene	9.146	164	260627	47.78	ug/L		90
72) 2-Hexanone	9.299	43	618660	49.35	ug/L		95
73) 1,3-Dichloropropane	9.177	76	552453	50.10	ug/L		95
74) Dibromochloromethane	9.402	129	324984	53.18	ug/L		98
75) N-Butyl Acetate	9.451	43	1056898	54.67	ug/L		96
76) 1,2-Dibromoethane	9.494	107	336739	54.69	ug/L		98
77) 3-Chlorobenzotrifluoride	10.000	180	546683	51.64	ug/L		98
78) Chlorobenzene	9.982	112	896074	48.19	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	476142	49.59	ug/L		95
80) 1,1,1,2-Tetrachloroethane	10.067	131	317056	55.41	ug/L		99
81) Ethylbenzene	10.103	106	473558	50.40	ug/L		91
82) (m+p)Xylene	10.213	106	1192643	99.27	ug/L		93
83) o-Xylene	10.567	106	600351	50.37	ug/L		99
84) Styrene	10.579	104	1027923	50.09	ug/L		97
85) Bromoform	10.731	173	231387	51.63	ug/L		96
86) 2-Chlorobenzotrifluoride	10.805	180	531485	50.66	ug/L		99
87) Isopropylbenzene	10.896	105	1556867	50.05	ug/L		98
88) Cyclohexanone	10.957	55	2232428	1095.62	ug/L		91
89) trans-1,4-Dichloro-2-B...	11.201	53	183949	52.24	ug/L		89
91) 1,1,2,2-Tetrachloroethane	11.152	83	511312	52.69	ug/L		92
92) Bromobenzene	11.140	156	401577	49.92	ug/L		93
93) 1,2,3-Trichloropropane	11.183	110	155210	49.33	ug/L	#	80

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:26:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

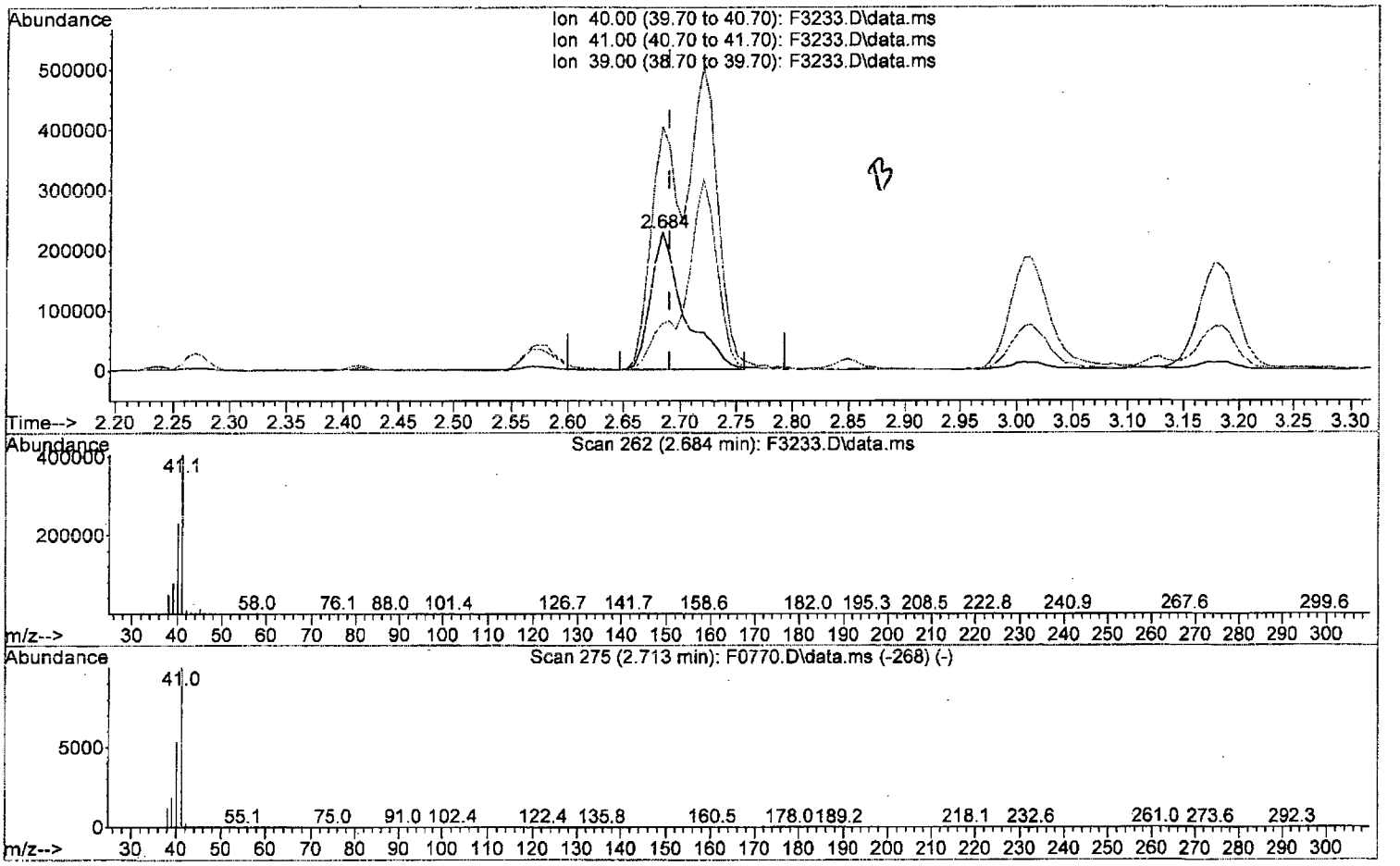
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.250	91	1846738	51.46	ug/L	98
95)	2-Chlorotoluene	11.311	91	1069351	51.44	ug/L	99
96)	3-Chlorotoluene	11.365	91	1148187	52.45	ug/L	96
97)	4-Chlorotoluene	11.408	91	1236517	49.99	ug/L	96
98)	1,3,5-Trimethylbenzene	11.402	105	1299401	51.79	ug/L	97
99)	tert-Butylbenzene	11.670	119	1171681	51.26	ug/L	97
100)	1,2,4-Trimethylbenzene	11.707	105	1322685	50.97	ug/L	96
101)	3,4-Dichlorobenzotrifl...	11.774	214	397788	49.99	ug/L	97
102)	sec-Butylbenzene	11.853	105	1682695	51.36	ug/L	97
103)	p-Isopropyltoluene	11.975	119	1381840	51.89	ug/L	99
104)	1,3-Dclbenz	11.932	146	759247	49.82	ug/L	98
105)	1,4-Dclbenz	12.006	146	771927	49.91	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	369792	51.62	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.097	214	426516	51.99	ug/L	97
108)	n-Butylbenzene	12.304	91	1267553	51.12	ug/L	99
109)	1,2-Dclbenz	12.310	146	759682	50.30	ug/L	95
110)	1,2-Dibromo-3-chloropr...	12.932	157	120191	58.42	ug/L	93
111)	Trielution Dichlorotol...	13.048	125	2272992	163.51	ug/L	99
112)	1,3,5-Trichlorobenzene	13.103	180	641876	52.74	ug/L	99
113)	Coelution Dichlorotoluene	13.377	125	1717611	110.38	ug/L	96
114)	1,2,4-Tcbenzene	13.584	180	608808	52.31	ug/L	99
115)	Hexachlorobt	13.719	225	248924	48.68	ug/L	94
116)	Naphthalen	13.773	128	1934224	55.41	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	630603	52.71	ug/L	97
118)	2,4,5-Trichlorotoluene	14.548	159	492443	54.49	ug/L	97
119)	2,3,6-Trichlorotoluene	14.633	159	438398	53.34	ug/L	96

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:00:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3233.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 256.70 ug/L

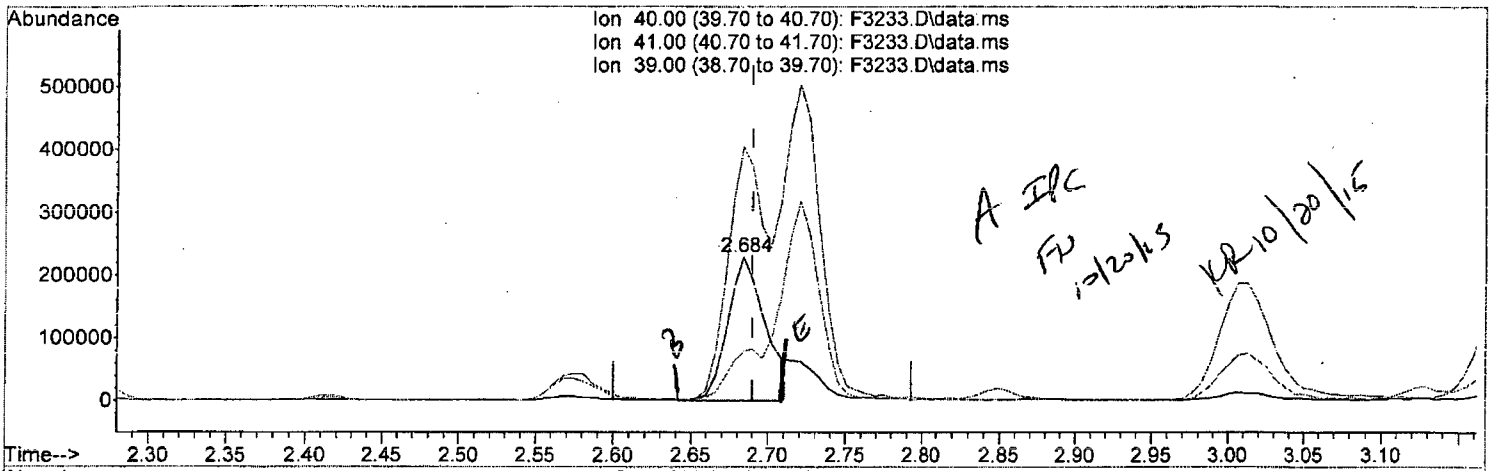
response 464051

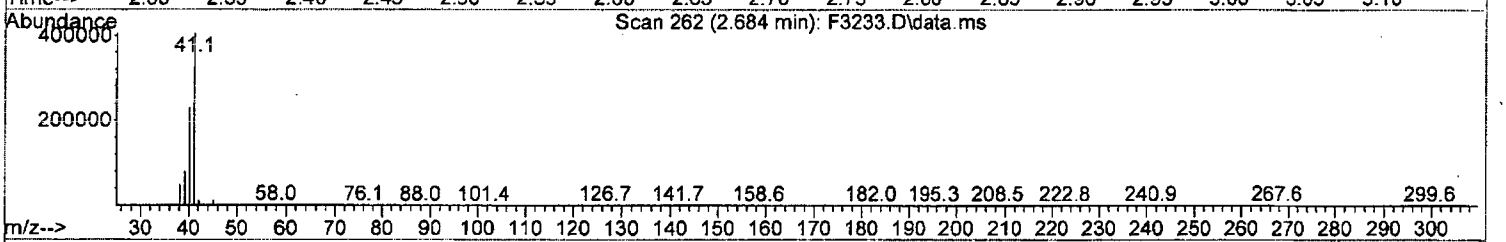
Ion	Exp%	Act%
40.00	100	100
41.00	185.70	176.44
39.00	35.30	33.98
0.00	0.00	0.00

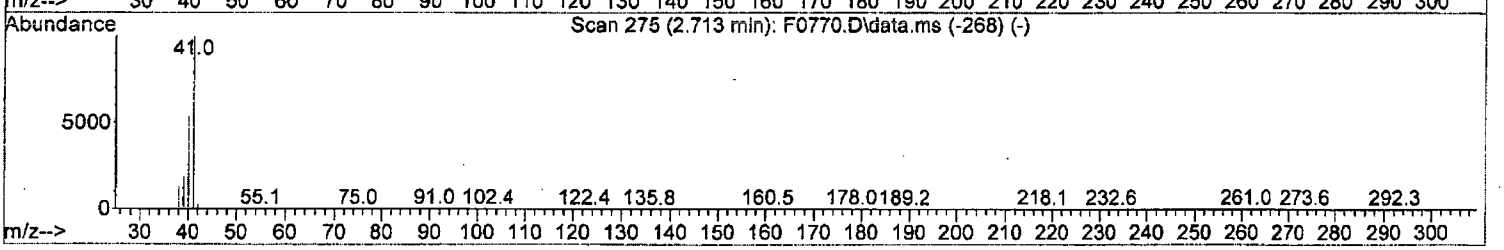
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:00:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration







TIC: F3233.D\data.ms

(19) Acetonitrile

2.684min (-0.006) 210.83 ug/L m

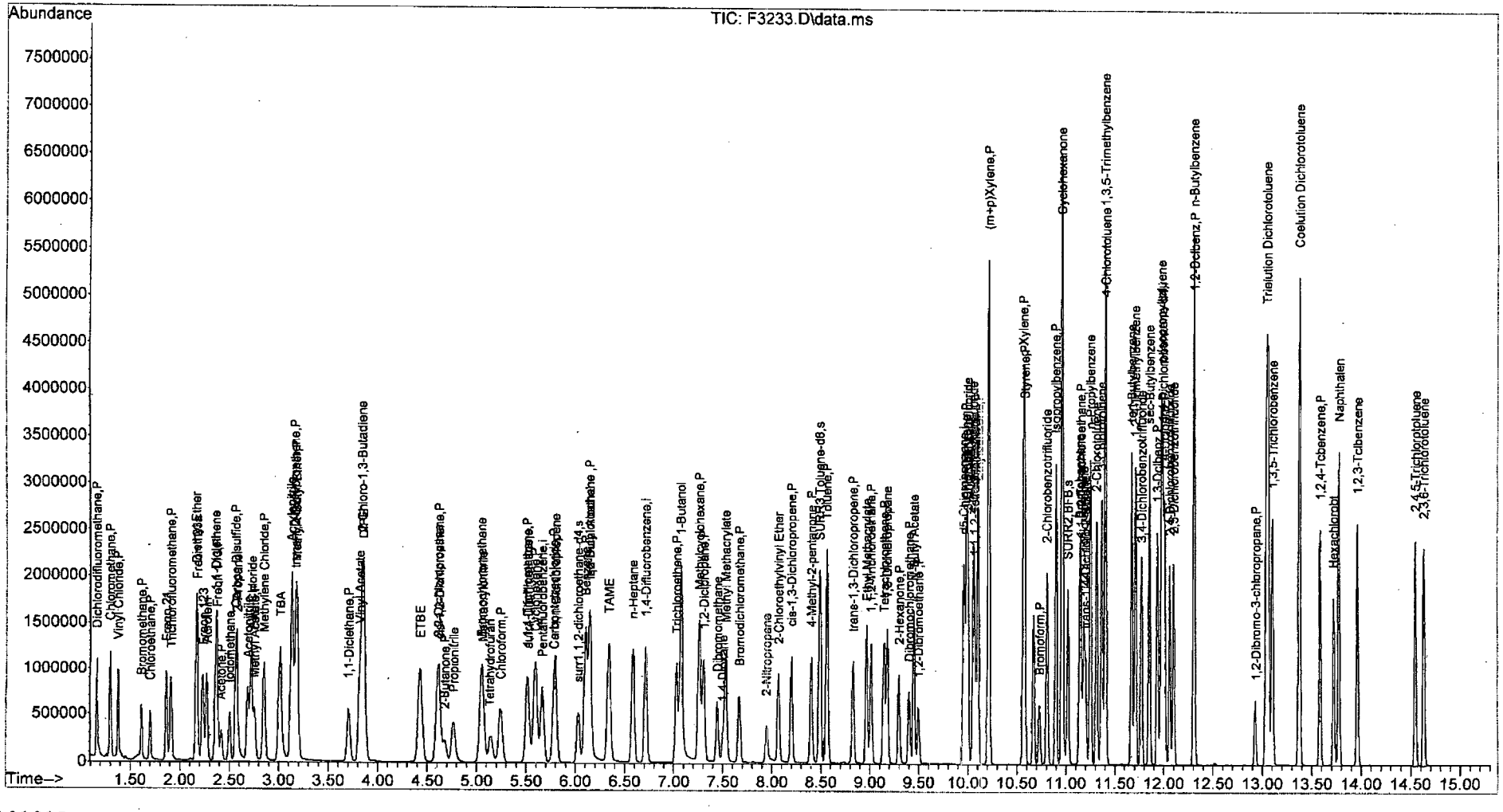
response 381136

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	176.44
39.00	35.30	33.98
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3233.D
Acq On : 19 Oct 2015 8:24 pm
Operator : F. Naegler
Sample : 50 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 20 10:26:30 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:28:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FV 10/20/15 KB 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	685772	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	984607	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	901187	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	505611	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	629908	104.29	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 208.58%#				
46) surr1,1,2-dichloroetha...	6.031	65	826934	101.79	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 203.58%#				
64) SURR3,Toluene-d8	8.488	98	2257081	100.61	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 201.22%#				
69) SURR2,BFB	11.018	95	928888	103.69	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 207.38%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	1064587	109.57	ug/L		98
3) Chloromethane	1.294	50	1710848	103.55	ug/L		99
4) Vinyl Chloride	1.379	62	1177612	102.83	ug/L		96
5) Bromomethane	1.611	94	364994	72.94	ug/L		100
6) Chloroethane	1.690	64	573444	100.61	ug/L		92
7) Freon 21	1.861	67	1379379	104.29	ug/L		97
8) Trichlorofluoromethane	1.904	101	1032806	105.05	ug/L		98
9) Diethyl Ether	2.166	59	805413	101.21	ug/L		88
10) Freon 123a	2.172	67	833200	101.79	ug/L		99
11) Freon 123	2.233	83	879590	103.67	ug/L		97
12) Acrolein	2.269	56	1222136	515.19	ug/L		96
13) 1,1-Diclethene	2.361	96	552817	101.37	ug/L	#	85
14) Freon 113	2.373	101	609574	100.10	ug/L		92
15) Acetone	2.416	43	582792	94.25	ug/L		98
16) 2-Propanol	2.586	45	2779196	2253.30	ug/L		95
17) Iodomethane	2.501	142	1028774	142.73	ug/L		94
18) Carbon Disulfide	2.562	76	1720645	107.68	ug/L		99
19) Acetonitrile	2.690	40	747631m	414.03	ug/L		
20) Allyl Chloride	2.721	76	327912	114.28	ug/L	#	1
21) Methyl Acetate	2.757	43	1289149	101.71	ug/L		98
22) Methylene Chloride	2.849	84	671052	94.14	ug/L		91
23) TBA	3.025	59	3292609	2260.45	ug/L		88
24) Acrylonitrile	3.129	53	2980667	515.23	ug/L		100
25) Methyl-t-Butyl Ether	3.184	73	2308160	103.67	ug/L		98
26) trans-1,2-Dichloroethene	3.166	96	621021	100.59	ug/L		93
27) 1,1-Diclethane	3.708	63	1309256	106.86	ug/L		99
28) Vinyl Acetate	3.812	86	163694	122.32	ug/L	#	91
29) DIPE	3.854	45	3795813	103.22	ug/L		98
30) 2-Chloro-1,3-Butadiene	3.842	53	1638059	106.35	ug/L		98
31) ETBE	4.428	59	2566525	115.23	ug/L		98
32) 2,2-Dichloropropane	4.610	77	736940	123.62	ug/L		97
33) cis-1,2-Dichloroethene	4.623	96	685552	112.90	ug/L	#	85
34) 2-Butanone	4.684	43	885500	100.83	ug/L		97
35) Propionitrile	4.769	54	1217220	535.12	ug/L		99

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:28:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	472867	117.05	ug/L		88
37) Methacrylonitrile	5.062	67	430465	101.33	ug/L	#	60
38) Tetrahydrofuran	5.141	42	598236	104.97	ug/L		99
39) Chloroform	5.244	83	1156641	106.30	ug/L		97
40) 1,1,1-Trichloroethane	5.513	97	931279	121.38	ug/L		96
42) Cyclohexane	5.598	41	1046697	106.74	ug/L		93
44) Carbontetrachloride	5.781	121	249641	114.40	ug/L		99
45) 1,1-Dichloropropene	5.799	75	852352	99.21	ug/L		98
47) Benzene	6.104	78	2589789	98.68	ug/L		85
48) 1,2-Dichloroethane	6.147	62	1145345	102.73	ug/L		98
49) Iso-Butyl Alcohol	6.159	43	2014020	2381.19	ug/L		100
50) TAME	6.342	73	2090910	110.33	ug/L		93
51) n-Heptane	6.586	43	1401204	100.01	ug/L		92
52) 1-Butanol	7.086	56	2607806	6691.27	ug/L		89
53) Trichloroethene	7.031	130	694277	102.88	ug/L		99
54) Methylcyclohexane	7.262	55	1199005	102.09	ug/L		96
55) 1,2-Diclpropane	7.305	63	763919	104.20	ug/L		96
56) Dibromomethane	7.445	93	442928	105.13	ug/L		91
57) 1,4-Dioxane	7.506	88	336828	2007.23	ug/L		95
58) Methyl Methacrylate	7.531	69	655082	107.82	ug/L	#	77
59) Bromodichloromethane	7.671	83	850097	110.06	ug/L		99
60) 2-Nitropropane	7.945	41	453648	239.66	ug/L		94
61) 2-Chloroethylvinyl Ether	8.067	63	645184	106.36	ug/L		94
62) cis-1,3-Dichloropropene	8.201	75	1062099	113.89	ug/L		98
63) 4-Methyl-2-pentanone	8.402	43	1690936	103.00	ug/L		95
65) Toluene	8.561	91	2764906	102.56	ug/L		99
66) trans-1,3-Dichloropropene	8.829	75	941693	117.46	ug/L		100
67) Ethyl Methacrylate	8.969	69	1136538	116.19	ug/L		90
68) 1,1,2-Trichloroethane	9.012	97	638920	101.21	ug/L		90
71) Tetrachloroethene	9.146	164	542926	97.44	ug/L		93
72) 2-Hexanone	9.299	43	1280842	100.02	ug/L		95
73) 1,3-Dichloropropane	9.177	76	1117729	99.23	ug/L		95
74) Dibromochloromethane	9.402	129	719366	115.23	ug/L		99
75) N-Butyl Acetate	9.451	43	2315483	117.25	ug/L		96
76) 1,2-Dibromoethane	9.494	107	696008	110.65	ug/L		96
77) 3-Chlorobenzotrifluoride	10.000	180	1054309	97.50	ug/L		98
78) Chlorobenzene	9.981	112	1841543	96.95	ug/L		100
79) 4-Chlorobenzotrifluoride	10.055	180	947312	96.58	ug/L		95
80) 1,1,1,2-Tetrachloroethane	10.067	131	672853	115.12	ug/L		95
81) Ethylbenzene	10.103	106	992493	103.39	ug/L	#	89
82) (m+p)Xylene	10.213	106	2430390	198.02	ug/L	#	88
83) o-Xylene	10.567	106	1255222	103.10	ug/L		96
84) Styrene	10.579	104	2125461	101.39	ug/L		99
85) Bromoform	10.731	173	538668	117.66	ug/L		97
86) 2-Chlorobenzotrifluoride	10.810	180	1067587	99.61	ug/L		99
87) Isopropylbenzene	10.896	105	3201194	100.73	ug/L		95
88) Cyclohexanone	10.963	55	4302165	2066.85	ug/L		91
89) trans-1,4-Dichloro-2-B...	11.201	53	404926	112.57	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.152	83	1077574	105.36	ug/L		97
92) Bromobenzene	11.140	156	829260	97.80	ug/L		91
93) 1,2,3-Trichloropropane	11.182	110	334597	100.89	ug/L	#	88

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:28:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

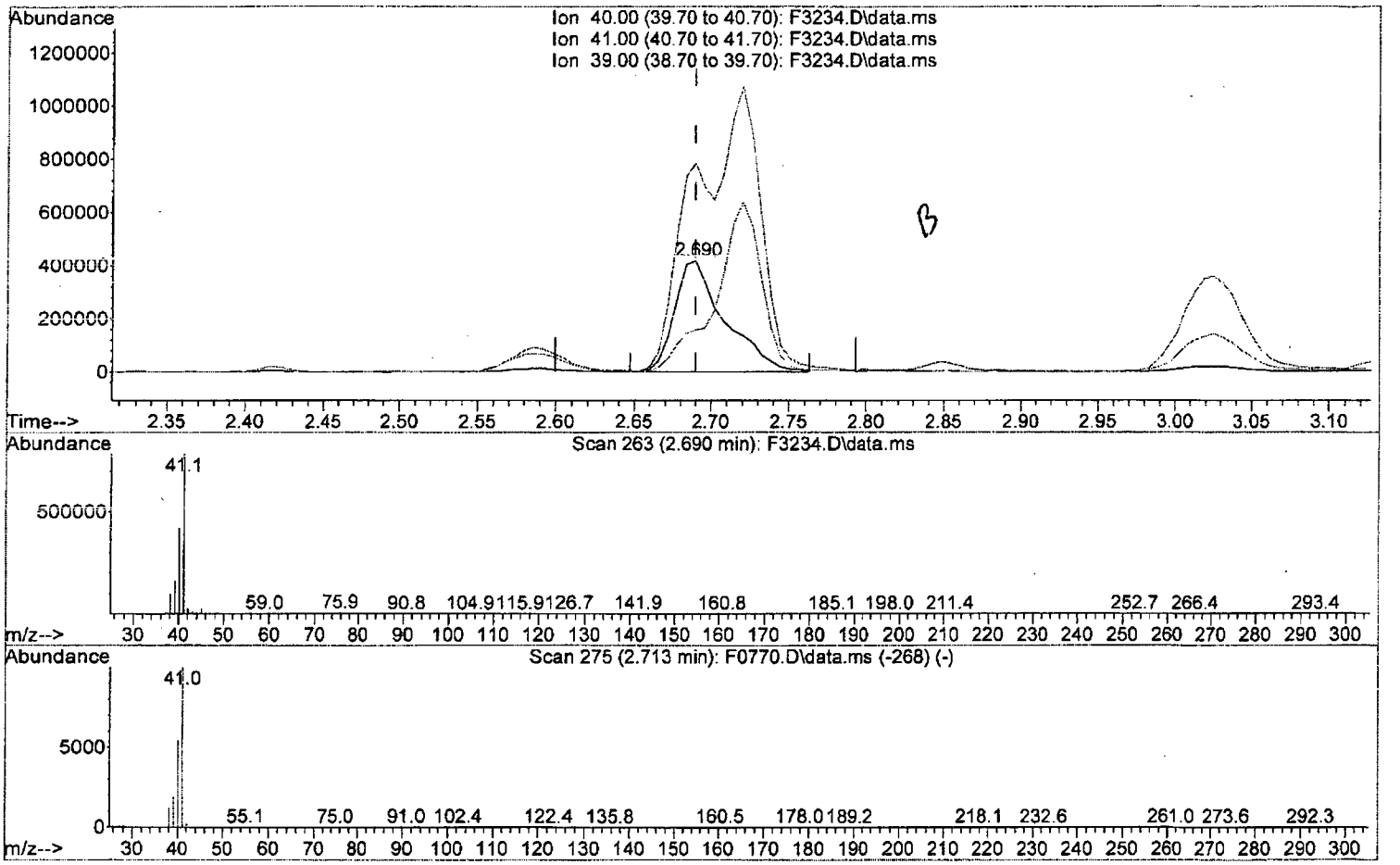
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	3705640	97.96	ug/L	94
95)	2-Chlorotoluene	11.310	91	2175507	99.29	ug/L	98
96)	3-Chlorotoluene	11.365	91	2296429	99.53	ug/L	98
97)	4-Chlorotoluene	11.408	91	2582194	99.04	ug/L	96
98)	1,3,5-Trimethylbenzene	11.402	105	2650389	100.23	ug/L	96
99)	tert-Butylbenzene	11.670	119	2435980	101.12	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	2757909	100.84	ug/L	91
101)	3,4-Dichlorobenzotrifl...	11.774	214	826140	98.51	ug/L	97
102)	sec-Butylbenzene	11.853	105	3448169	99.85	ug/L	95
103)	p-Isopropyltoluene	11.975	119	2895318	103.16	ug/L	98
104)	1,3-Dclbenz	11.932	146	1581221	98.44	ug/L	98
105)	1,4-Dclbenz	12.011	146	1631342	100.08	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	754271	99.90	ug/L	100
107)	2,5-Dichlorobenzotrifl...	12.103	214	857841	99.20	ug/L	98
108)	n-Butylbenzene	12.304	91	2702213	103.40	ug/L	98
109)	1,2-Dclbenz	12.310	146	1634201	102.67	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.926	157	277773	128.10	ug/L	89
111)	Trielution Dichlorotol...	13.048	125	4529087	309.12	ug/L	98
112)	1,3,5-Trichlorobenzene	13.103	180	1290930	100.64	ug/L	100
113)	Coelution Dichlorotoluene	13.377	125	3403008	207.48	ug/L	97
114)	1,2,4-Tcbenzene	13.584	180	1261729	102.85	ug/L	98
115)	Hexachlorobt	13.718	225	547338	101.56	ug/L	98
116)	Naphthalen	13.773	128	3811290	103.59	ug/L	96
117)	1,2,3-Tclbenzene	13.962	180	1309866	103.87	ug/L	98
118)	2,4,5-Trichlorotoluene	14.548	159	983763	103.28	ug/L	95
119)	2,3,6-Trichlorotoluene	14.633	159	874573	100.96	ug/L	99

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:00:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3234.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 520.00 ug/L

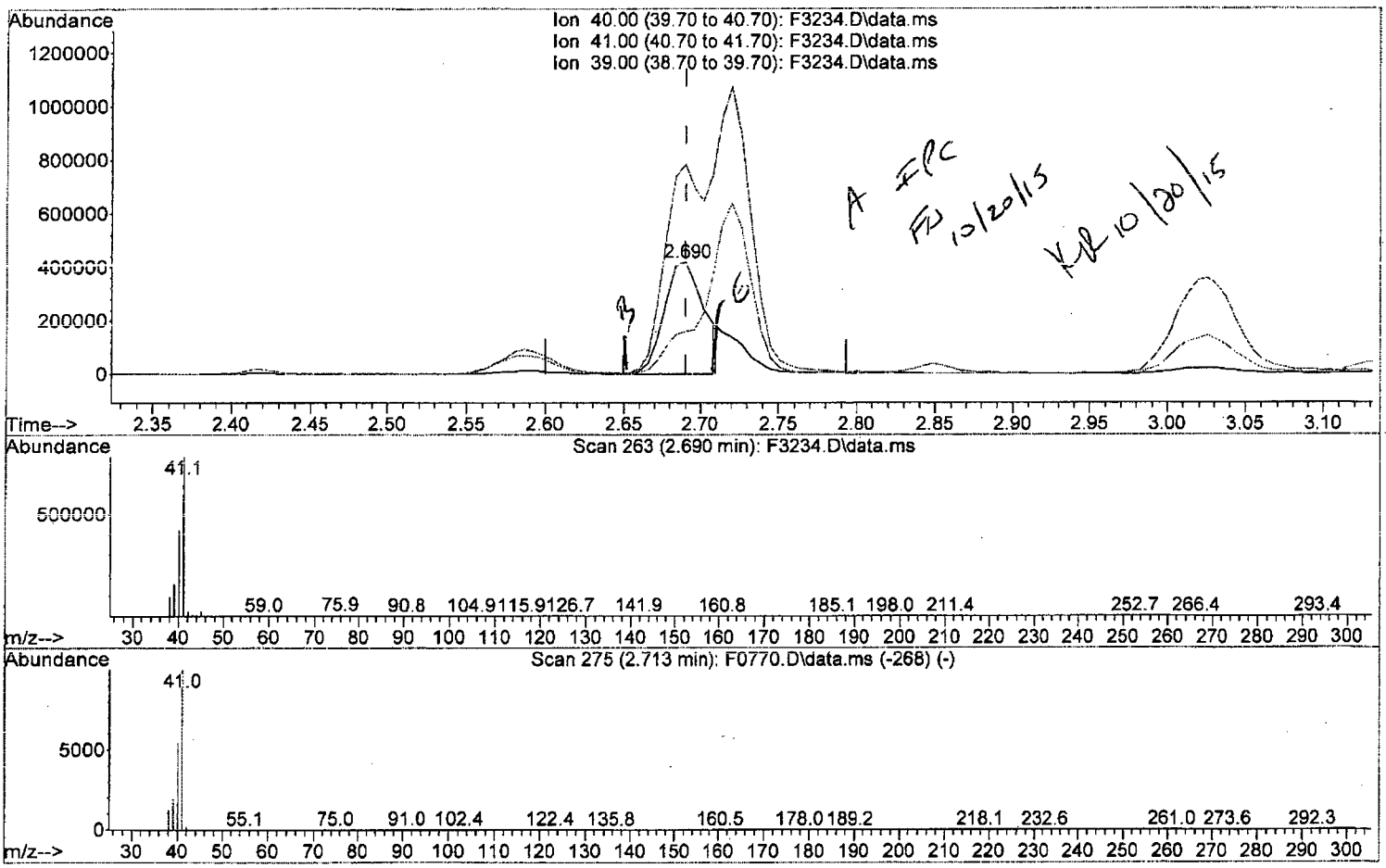
response 938982

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.48
39.00	35.30	37.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:00:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3234.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 414.03 ug/L m

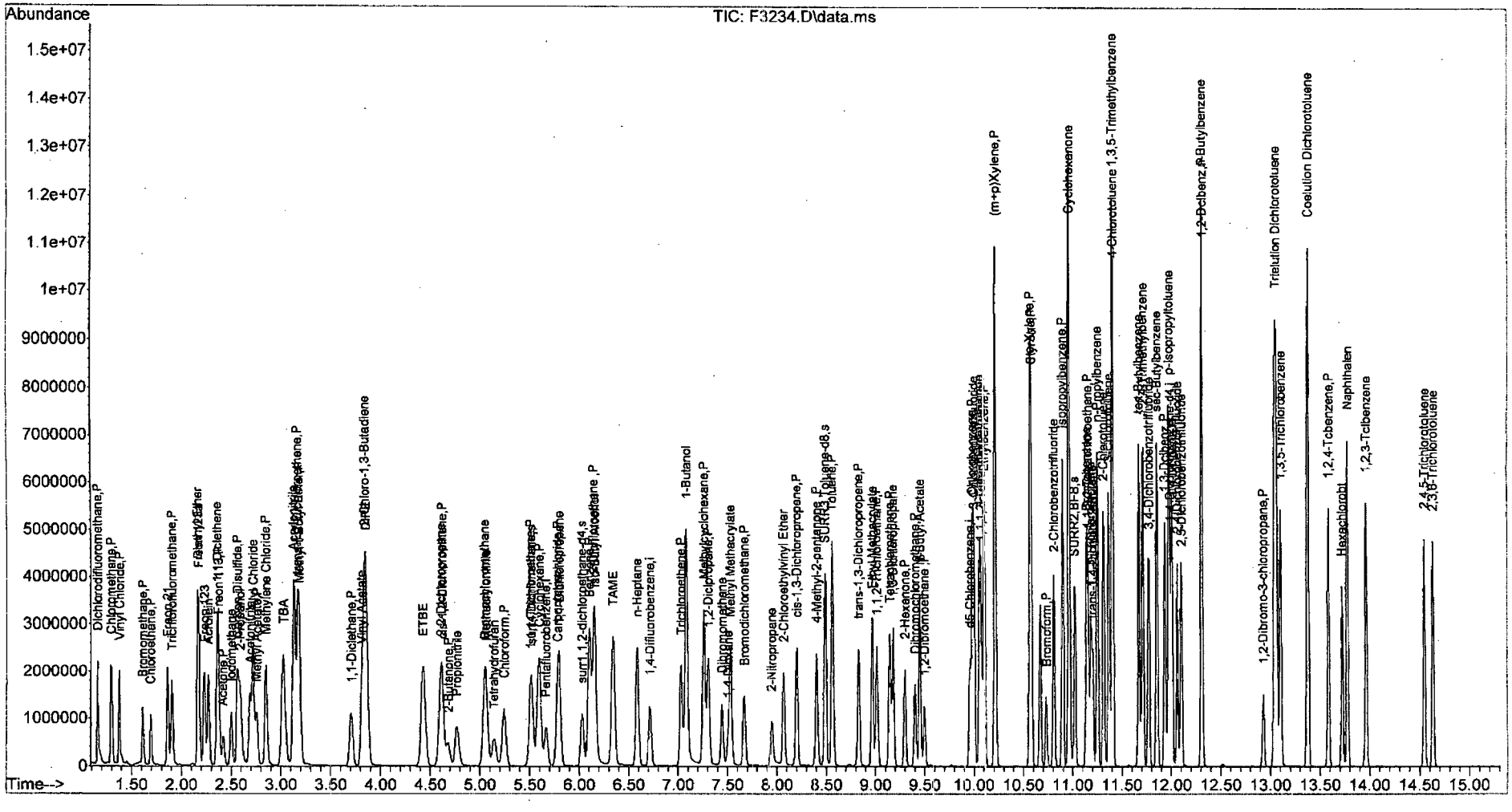
response 747631

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.48
39.00	35.30	37.70
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3234.D
Acq On : 19 Oct 2015 8:48 pm
Operator : F. Naegler
Sample : 100 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 20 10:28:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:29:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FW 10/20/15
KR 10/20/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	647806	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	920838	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	886421	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	533467	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.519	113	1129134	199.88	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 399.76%#			
46) surr1,1,2-dichloroetha...	6.031	65	1498471	197.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 394.46%#			
64) SURR3,Toluene-d8	8.488	98	4054229	193.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 386.46%#			
69) SURR2,BFB	11.024	95	1784533	212.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 425.98%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	1426027	155.37	ug/L	96
3) Chloromethane	1.294	50	2309205	147.95	ug/L	100
4) Vinyl Chloride	1.379	62	1597483	147.68	ug/L	97
5) Bromomethane	1.611	94	494412	104.60	ug/L	99
6) Chloroethane	1.684	64	786136	146.01	ug/L	91
7) Freon 21	1.855	67	1987828	159.10	ug/L	100
8) Trichlorofluoromethane	1.898	101	1357115	146.13	ug/L	99
9) Diethyl Ether	2.166	59	1109894	147.64	ug/L	89
10) Freon 123a	2.172	67	1189057	153.78	ug/L	99
11) Freon 123	2.227	83	1232124	153.73	ug/L	97
12) Acrolein	2.269	56	1818009	811.29	ug/L	96
13) 1,1-Diclethene	2.355	96	752828	146.14	ug/L	95
14) Freon 113	2.367	101	805142	139.97	ug/L	97
15) Acetone	2.422	43	879373	150.55	ug/L	99
16) 2-Propanol	2.611	45	4581248	3932.05	ug/L	95
17) Iodomethane	2.495	142	1347647	197.92	ug/L	90
18) Carbon Disulfide	2.556	76	2326647	154.14	ug/L	100
19) Acetonitrile	2.690	40	1069292m	626.87	ug/L	
20) Allyl Chloride	2.721	76	456358	168.37	ug/L #	2
21) Methyl Acetate	2.757	43	1913720	159.83	ug/L	96
22) Methylene Chloride	2.849	84	919053	136.49	ug/L	93
23) TBA	3.050	59	5420903	3939.69	ug/L	87
24) Acrylonitrile	3.135	53	4210047	770.39	ug/L	99
25) Methyl-t-Butyl Ether	3.184	73	3226354	153.41	ug/L	100
26) trans-1,2-Dichloroethene	3.166	96	823355	141.18	ug/L	98
27) 1,1-Diclethane	3.702	63	1764611	152.47	ug/L	98
28) Vinyl Acetate	3.818	86	236987	187.46	ug/L #	87
29) DIPE	3.855	45	5263274	151.52	ug/L	100
30) 2-Chloro-1,3-Butadiene	3.836	53	2196120	150.93	ug/L	97
31) ETBE	4.434	59	3693364	175.53	ug/L	99
32) 2,2-Dichloropropane	4.604	77	1025777	182.15	ug/L	97
33) cis-1,2-Dichloroethene	4.617	96	926098	161.45	ug/L	87
34) 2-Butanone	4.678	43	1341180	161.67	ug/L	99
35) Propionitrile	4.775	54	1856795	864.14	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:29:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.043	130	656890	172.13 ug/L		89
37) Methacrylonitrile	5.062	67	632596	157.64 ug/L	#	73
38) Tetrahydrofuran	5.147	42	843779	156.73 ug/L		98
39) Chloroform	5.245	83	1561314	151.91 ug/L		98
40) 1,1,1-Trichloroethane	5.513	97	1275234	175.94 ug/L		95
42) Cyclohexane	5.592	41	1493818	162.88 ug/L		98
44) Carbontetrachloride	5.781	121	350312	171.65 ug/L		98
45) 1,1-Dichloropropene	5.793	75	1163220	144.77 ug/L		98
47) Benzene	6.104	78	3511517	143.07 ug/L		85
48) 1,2-Dichloroethane	6.147	62	1561954	149.80 ug/L		97
49) Iso-Butyl Alcohol	6.171	43	3304122	4177.02 ug/L		100
50) TAME	6.342	73	2950618	166.47 ug/L		93
51) n-Heptane	6.586	43	1847344	140.99 ug/L		94
52) 1-Butanol	7.098	56	4172288	11446.89 ug/L		87
53) Trichloroethene	7.031	130	938799	148.74 ug/L		99
54) Methylcyclohexane	7.262	55	1681053	153.05 ug/L		96
55) 1,2-Diclpropane	7.305	63	1074468	156.71 ug/L		97
56) Dibromomethane	7.445	93	616339	156.42 ug/L		91
57) 1,4-Dioxane	7.512	88	528422	3367.05 ug/L		98
58) Methyl Methacrylate	7.531	69	947741	166.79 ug/L	#	80
59) Bromodichloromethane	7.671	83	1195115	165.44 ug/L		98
60) 2-Nitropropane	7.951	41	722316	408.02 ug/L		100
61) 2-Chloroethylvinyl Ether	8.067	63	933464	164.54 ug/L		97
62) cis-1,3-Dichloropropene	8.201	75	1489415	170.78 ug/L		99
63) 4-Methyl-2-pentanone	8.402	43	2591888	168.81 ug/L		94
65) Toluene	8.561	91	3670624	145.59 ug/L		95
66) trans-1,3-Dichloropropene	8.829	75	1392277	185.69 ug/L		98
67) Ethyl Methacrylate	8.969	69	1657858	181.23 ug/L		90
68) 1,1,2-Trichloroethane	9.012	97	915689	155.10 ug/L		88
71) Tetrachloroethene	9.146	164	744676	135.88 ug/L		94
72) 2-Hexanone	9.299	43	2053760	163.04 ug/L		94
73) 1,3-Dichloropropane	9.177	76	1551610	140.04 ug/L		92
74) Dibromochloromethane	9.402	129	1051439	171.23 ug/L		97
75) N-Butyl Acetate	9.451	43	3526191	181.54 ug/L		98
76) 1,2-Dibromoethane	9.500	107	1005240	162.47 ug/L		97
77) 3-Chlorobenzotrifluoride	10.000	180	1482912	139.42 ug/L		97
78) Chlorobenzene	9.981	112	2526194	135.21 ug/L		98
79) 4-Chlorobenzotrifluoride	10.055	180	1336239	138.50 ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.067	131	977776	170.08 ug/L		97
81) Ethylbenzene	10.103	106	1349257	142.90 ug/L	#	83
82) (m+p)Xylene	10.213	106	3283527	271.99 ug/L	#	83
83) o-Xylene	10.567	106	1736143	144.98 ug/L		90
84) Styrene	10.579	104	2963415	143.72 ug/L		98
85) Bromoform	10.731	173	867892	192.73 ug/L		98
86) 2-Chlorobenzotrifluoride	10.810	180	1556046	147.60 ug/L		98
87) Isopropylbenzene	10.896	105	4294975	137.40 ug/L		95
88) Cyclohexanone	10.963	55	6069365	2964.43 ug/L		85
89) trans-1,4-Dichloro-2-B...	11.207	53	655233	185.19 ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.158	83	1634530	151.47 ug/L		96
92) Bromobenzene	11.140	156	1202534	134.41 ug/L		95
93) 1,2,3-Trichloropropane	11.188	110	504023	144.05 ug/L		92

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:29:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

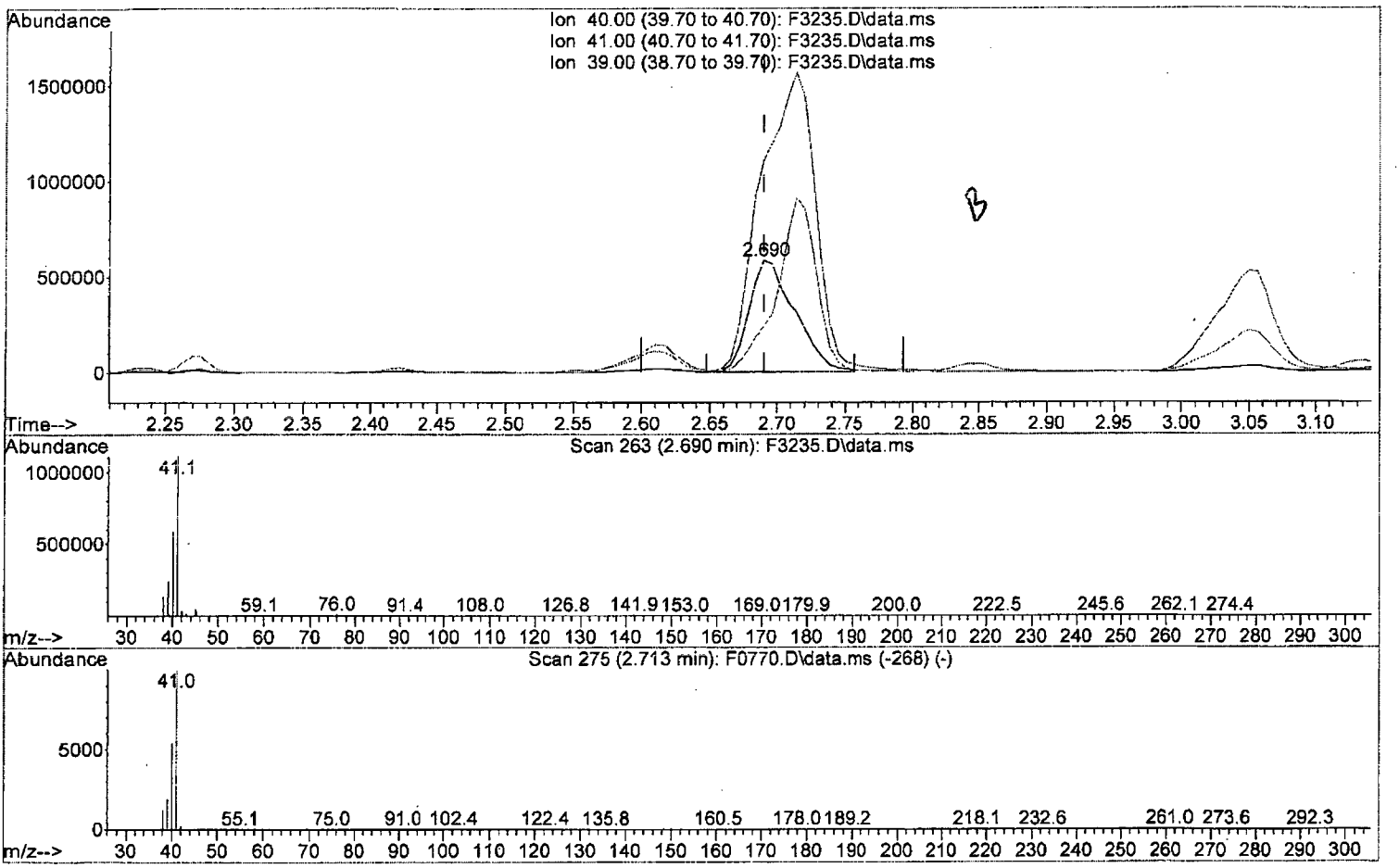
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	4973143	124.61	ug/L	90
95)	2-Chlorotoluene	11.317	91	3066301	132.64	ug/L	95
96)	3-Chlorotoluene	11.365	91	3303331	135.70	ug/L	97
97)	4-Chlorotoluene	11.408	91	3661499	133.10	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	3723955	133.48	ug/L	93
99)	tert-Butylbenzene	11.670	119	3416539	134.42	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	3877107	134.36	ug/L	89
101)	3,4-Dichlorobenzotrifl...	11.774	214	1217686	137.62	ug/L	96
102)	sec-Butylbenzene	11.853	105	4726239	129.72	ug/L	93
103)	p-Isopropyltoluene	11.975	119	4034572	136.25	ug/L	94
104)	1,3-Dclbenz	11.932	146	2331396	137.56	ug/L	97
105)	1,4-Dclbenz	12.011	146	2399617	139.52	ug/L	98
106)	2,4-Dichlorobenzotrifl...	12.060	214	1125767	141.32	ug/L	98
107)	2,5-Dichlorobenzotrifl...	12.103	214	1301187	142.62	ug/L	99
108)	n-Butylbenzene	12.304	91	3848409	139.57	ug/L	96
109)	1,2-Dclbenz	12.310	146	2376711	141.52	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.932	157	444464	194.26	ug/L	94
111)	Trielution Dichlorotol...	13.054	125	6558259	424.25	ug/L	93
112)	1,3,5-Trichlorobenzene	13.103	180	1911573	141.25	ug/L	98
113)	Coelution Dichlorotoluene	13.377	125	4816936	278.35	ug/L	93
114)	1,2,4-Tcbenzene	13.584	180	1813414	140.11	ug/L	97
115)	Hexachlorobt	13.725	225	792705	139.41	ug/L	99
116)	Naphthalen	13.773	128	5292096	136.32	ug/L	93
117)	1,2,3-Tclbenzene	13.962	180	1883282	141.55	ug/L	97
118)	2,4,5-Trichlorotoluene	14.548	159	1456967	144.98	ug/L	96
119)	2,3,6-Trichlorotoluene	14.633	159	1281119	140.17	ug/L	97

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:00:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3235.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 800.88 ug/L

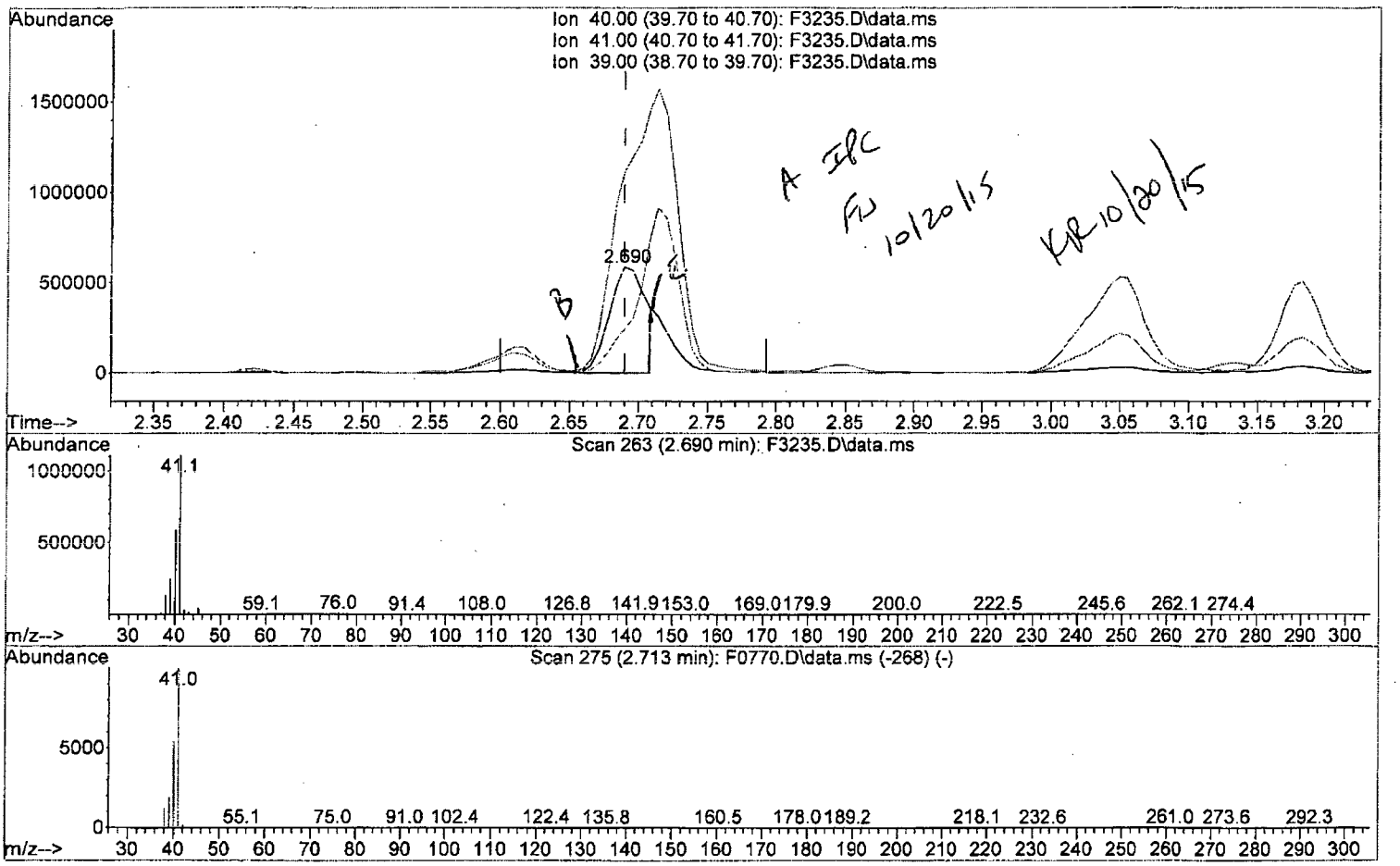
response 1366111

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	189.60
39.00	35.30	41.53
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:00:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3235.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 626.87 ug/L m

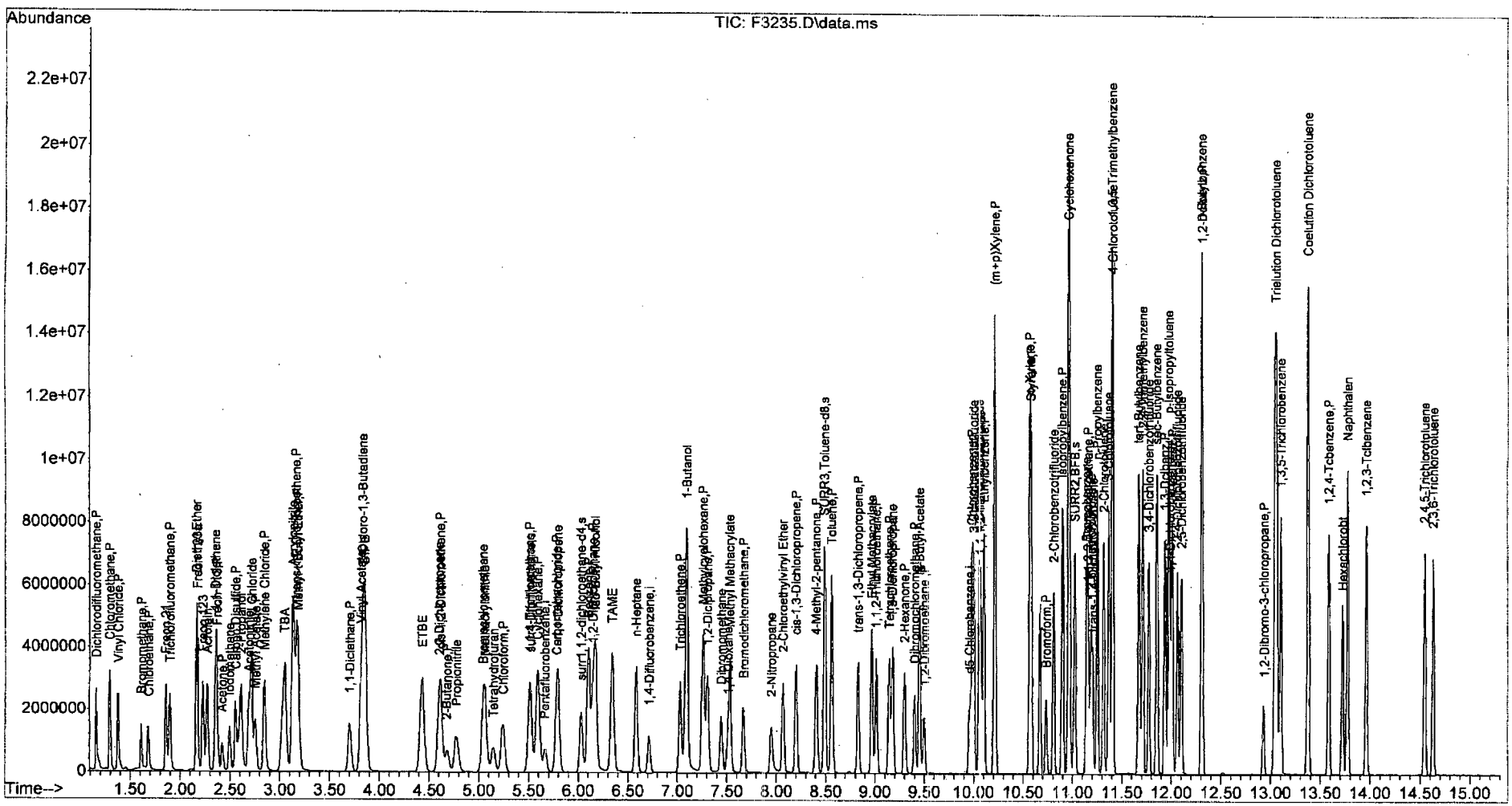
response 1069292

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	189.60
39.00	35.30	41.53
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3235.D
Acq On : 19 Oct 2015 9:13 pm
Operator : F. Naegler
Sample : 150 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Oct 20 10:29:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:31:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

FD 10/20/15
KR 10/20/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	683781	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	986868	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	903260	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	540337	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.519	113	312413	51.60	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.20%				
46) surr1,1,2-dichloroetha...	6.031	65	404980	49.74	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.48%				
64) SURR3,Toluene-d8	8.488	98	1159562	51.57	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.14%				
69) SURR2,BFB	11.024	95	468367	52.16	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.32%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.160	85	2040087	210.57	ug/L		97
3) Chloromethane	1.294	50	3143671	190.82	ug/L		97
4) Vinyl Chloride	1.373	62	2285153	200.13	ug/L		98
5) Bromomethane	1.611	94	733767	147.07	ug/L		98
6) Chloroethane	1.690	64	1170855	206.02	ug/L		93
7) Freon 21	1.861	67	2706659	205.23	ug/L		95
8) Trichlorofluoromethane	1.904	101	2024495	206.53	ug/L		99
9) Diethyl Ether	2.166	59	1571993	198.11	ug/L		89
10) Freon 123a	2.172	67	1652850	202.52	ug/L		99
11) Freon 123	2.227	83	1741573	205.86	ug/L		98
12) Acrolein	2.270	56	2432370	1028.34	ug/L		95
13) 1,1-Diclethene	2.361	96	1131362	208.07	ug/L		94
14) Freon 113	2.373	101	1220060	200.94	ug/L		93
15) Acetone	2.416	43	1187219	192.56	ug/L		99
16) 2-Propanol	2.593	45	5933574	4824.80	ug/L		94
17) Iodomethane	2.501	142	2057611	286.29	ug/L		92
18) Carbon Disulfide	2.562	76	3431364	215.36	ug/L		100
19) Acetonitrile	2.690	40	1474179m	818.77	ug/L		
20) Allyl Chloride	2.721	76	675825	236.22	ug/L	#	10
21) Methyl Acetate	2.757	43	2568930	203.27	ug/L		98
22) Methylene Chloride	2.849	84	1357502	190.99	ug/L		92
23) TBA	3.032	59	7060836	4861.54	ug/L		88
24) Acrylonitrile	3.129	53	5703342	988.74	ug/L		98
25) Methyl-t-Butyl Ether	3.184	73	4597879	207.12	ug/L		98
26) trans-1,2-Dichloroethene	3.166	96	1238115	201.14	ug/L		98
27) 1,1-Diclethane	3.702	63	2619764	214.45	ug/L		100
28) Vinyl Acetate	3.818	86	341015	255.56	ug/L	#	97
29) DIPE	3.855	45	7324133	199.75	ug/L		97
30) 2-Chloro-1,3-Butadiene	3.836	53	3260278	212.28	ug/L		97
31) ETBE	4.434	59	5287235	238.06	ug/L		96
32) 2,2-Dichloropropane	4.604	77	1581476	266.06	ug/L		99
33) cis-1,2-Dichloroethene	4.617	96	1383348	228.48	ug/L		87
34) 2-Butanone	4.678	43	1799500	205.51	ug/L		99
35) Propionitrile	4.775	54	2485151	1095.72	ug/L		99

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:31:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
36) Bromochloromethane	5.049	130	943789	234.30 ug/L		89
37) Methacrylonitrile	5.062	67	867577	204.82 ug/L	#	68
38) Tetrahydrofuran	5.141	42	1136333	199.97 ug/L		98
39) Chloroform	5.245	83	2295447	211.58 ug/L		96
40) 1,1,1-Trichloroethane	5.513	97	1938197	253.34 ug/L		95
42) Cyclohexane	5.598	41	2090256	212.66 ug/L		97
44) Carbontetrachloride	5.787	121	542791	248.17 ug/L		97
45) 1,1-Dichloropropene	5.799	75	1732095	201.15 ug/L		98
47) Benzene	6.104	78	5120302	194.65 ug/L		82
48) 1,2-Dichloroethane	6.147	62	2227620	199.35 ug/L		97
49) Iso-Butyl Alcohol	6.165	43	4413024	5205.60 ug/L		99
50) TAME	6.342	73	4182284	220.18 ug/L		92
51) n-Heptane	6.586	43	2741663	195.24 ug/L		94
52) 1-Butanol	7.092	56	5637894	14432.92 ug/L		85
53) Trichloroethene	7.031	130	1403435	207.48 ug/L		97
54) Methylcyclohexane	7.262	55	2386370	202.73 ug/L		97
55) 1,2-Diclpropane	7.305	63	1554895	211.61 ug/L		99
56) Dibromomethane	7.445	93	899280	212.96 ug/L		90
57) 1,4-Dioxane	7.506	88	675792	4017.96 ug/L		97
58) Methyl Methacrylate	7.531	69	1327931	218.06 ug/L	#	81
59) Bromodichloromethane	7.671	83	1726826	223.05 ug/L		96
60) 2-Nitropropane	7.945	41	1070547	564.27 ug/L		99
61) 2-Chloroethylvinyl Ether	8.067	63	1302321	214.20 ug/L		97
62) cis-1,3-Dichloropropene	8.201	75	2156633	230.74 ug/L		98
63) 4-Methyl-2-pentanone	8.402	43	3366322	204.58 ug/L		97
65) Toluene	8.561	91	5241755	193.99 ug/L		93
66) trans-1,3-Dichloropropene	8.829	75	2019455	251.31 ug/L		99
67) Ethyl Methacrylate	8.969	69	2291019	233.68 ug/L		89
68) 1,1,2-Trichloroethane	9.012	97	1270030	200.72 ug/L		89
71) Tetrachloroethene	9.146	164	1096855	196.41 ug/L		92
72) 2-Hexanone	9.299	43	2680534	208.83 ug/L		95
73) 1,3-Dichloropropane	9.177	76	2201499	195.00 ug/L		94
74) Dibromochloromethane	9.402	129	1509362	241.22 ug/L		97
75) N-Butyl Acetate	9.451	43	4546951	229.73 ug/L		99
76) 1,2-Dibromoethane	9.500	107	1401676	222.33 ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	2091699	192.99 ug/L		96
78) Chlorobenzene	9.981	112	3591649	188.65 ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	1856206	188.80 ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.067	131	1418939	242.21 ug/L		98
81) Ethylbenzene	10.103	106	1978416	205.63 ug/L	#	74
82) (m+p)Xylene	10.213	106	4683558	380.73 ug/L	#	70
83) o-Xylene	10.567	106	2498848	204.78 ug/L	#	85
84) Styrene	10.579	104	4124157	196.28 ug/L		94
85) Bromoform	10.731	173	1209351	263.55 ug/L		98
86) 2-Chlorobenzotrifluoride	10.811	180	2130005	198.28 ug/L		98
87) Isopropylbenzene	10.902	105	5896663	185.13 ug/L		88
88) Cyclohexanone	10.963	55	7496286	3593.11 ug/L		83
89) trans-1,4-Dichloro-2-B...	11.207	53	889770	246.78 ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.158	83	2184106	199.83 ug/L		93
92) Bromobenzene	11.146	156	1684317	185.87 ug/L		96
93) 1,2,3-Trichloropropane	11.182	110	676229	190.80 ug/L	#	89

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:31:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration

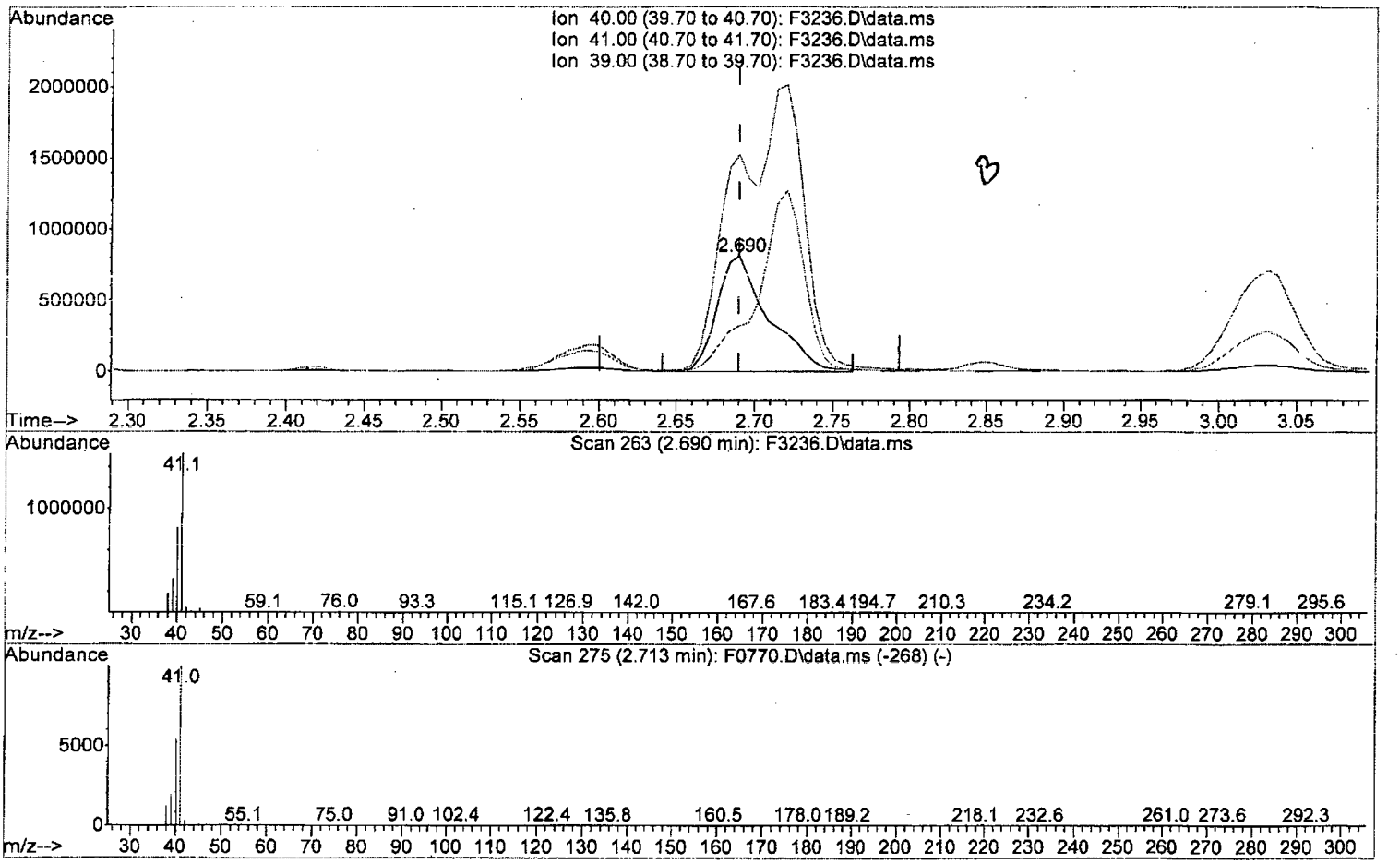
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	6604889	163.39	ug/L	84
95)	2-Chlorotoluene	11.317	91	4247428	181.40	ug/L	93
96)	3-Chlorotoluene	11.365	91	4357459	176.73	ug/L	93
97)	4-Chlorotoluene	11.408	91	4969750	178.37	ug/L	90
98)	1,3,5-Trimethylbenzene	11.402	105	5042865	178.46	ug/L	87
99)	tert-Butylbenzene	11.670	119	4687962	182.09	ug/L	95
100)	1,2,4-Trimethylbenzene	11.713	105	5215610	178.44	ug/L	83
101)	3,4-Dichlorobenzotrifl...	11.774	214	1661567	185.40	ug/L	97
102)	sec-Butylbenzene	11.853	105	6240746	169.10	ug/L	86
103)	p-Isopropyltoluene	11.975	119	5431236	181.09	ug/L	89
104)	1,3-Dclbenz	11.938	146	3245186	189.04	ug/L	97
105)	1,4-Dclbenz	12.012	146	3286887	188.68	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	1588259	196.84	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.103	214	1705976	184.61	ug/L	99
108)	n-Butylbenzene	12.304	91	5147735	184.31	ug/L	89
109)	1,2-Dclbenz	12.310	146	3200196	188.13	ug/L	92
110)	1,2-Dibromo-3-chloropr...	12.932	157	610491	263.44	ug/L	94
111)	Trielution Dichlorotol...	13.054	125	8589524	548.58	ug/L	89
112)	1,3,5-Trichlorobenzene	13.103	180	2590828	189.00	ug/L	97
113)	Coelution Dichlorotoluene	13.377	125	6149507	350.84	ug/L	87
114)	1,2,4-Tcbenzene	13.584	180	2527777	192.82	ug/L	98
115)	Hexachlorobt	13.725	225	1105229	191.90	ug/L	99
116)	Naphthalen	13.773	128	6669328	169.61	ug/L	87
117)	1,2,3-Tclbenzene	13.962	180	2550187	189.24	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	2008691	197.34	ug/L	93
119)	2,3,6-Trichlorotoluene	14.633	159	1775003	191.74	ug/L	97

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:00:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3236.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 1026.06 ug/L

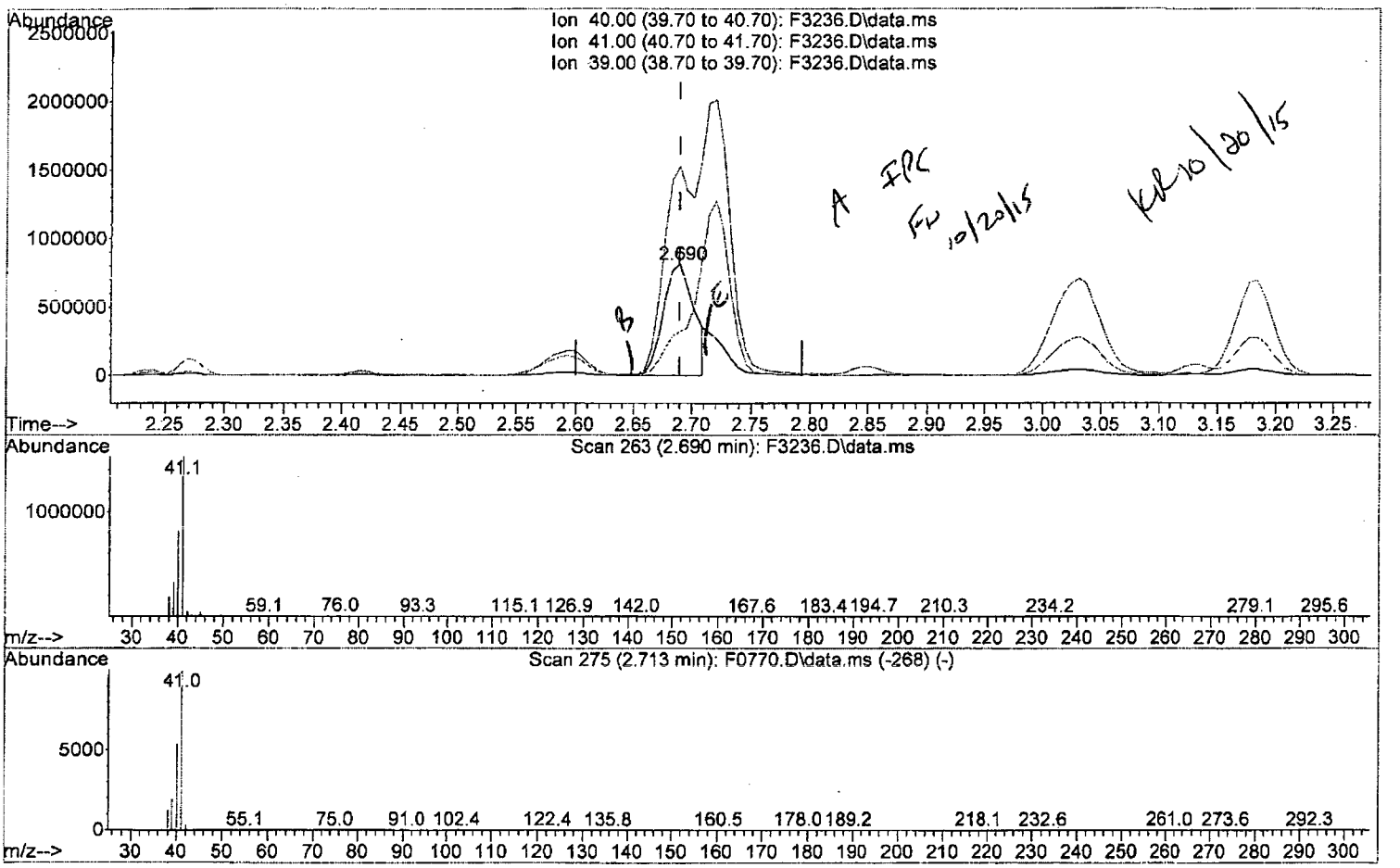
response 1847401

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.91
39.00	35.30	39.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:00:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



TIC: F3236.D\data.ms

(19) Acetonitrile

2.690min (-0.000) 818.77 ug/L m

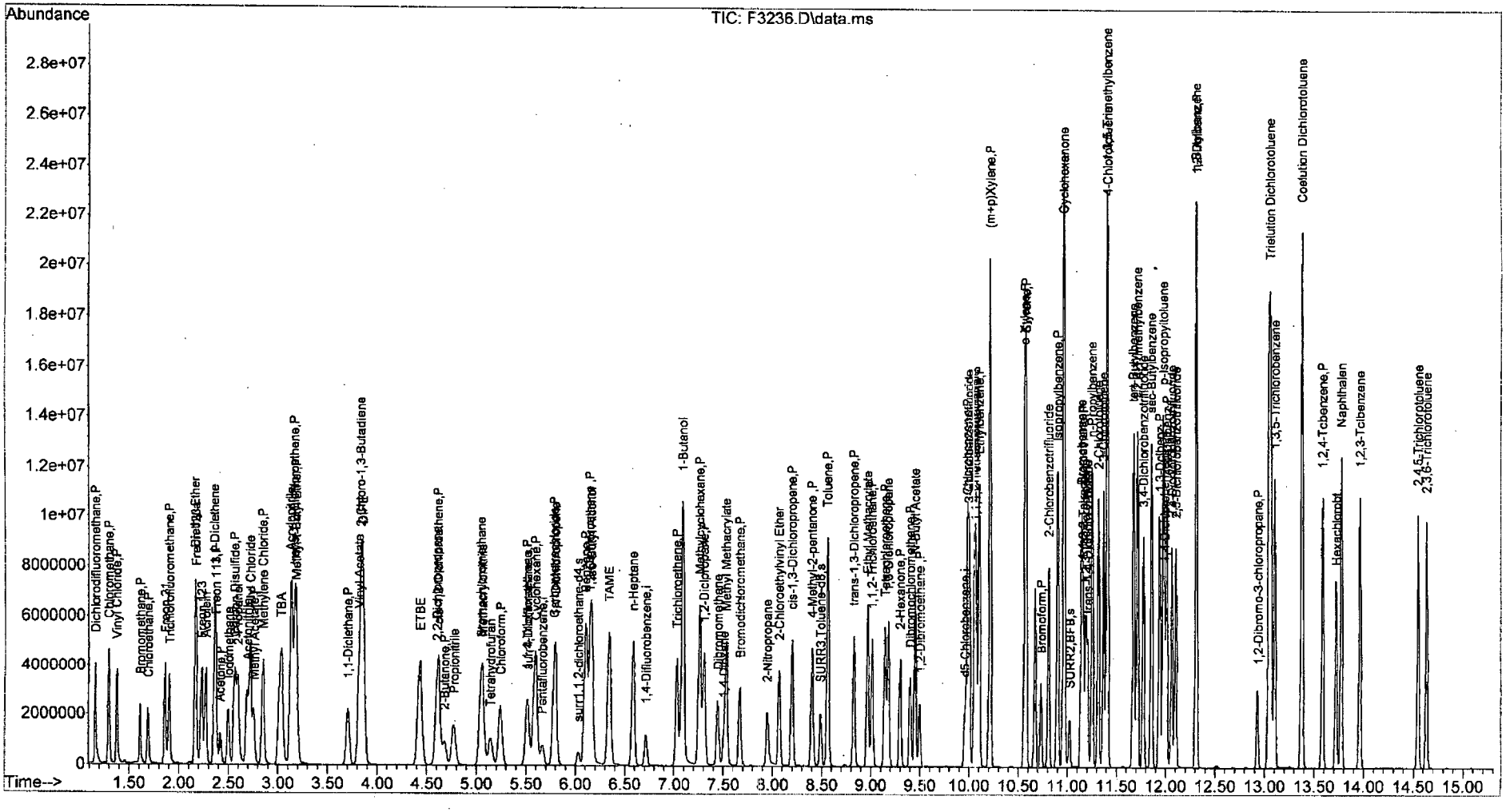
response 1474179

Ion	Exp%	Act%
40.00	100	100
41.00	185.70	187.91
39.00	35.30	39.40
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3236.D
Acq On : 19 Oct 2015 9:37 pm
Operator : F. Naegler
Sample : 200 PPB STD Inst : MSVOA10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 20 10:31:15 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 09:58:06 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

Calibration ID:	RC1500107	10/19/15	**Instrument ID:**	R-MS-10	
			Column Name:	1	

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500107-10	T	Quadratic	50	54.21	ppm	8.4	<=30
1,1,1,2-Tetrachloroethane	RC1500107-10	T	Quadratic	50	54.21	ppm	8.4	<=20
1,1,1-Trichloroethane (TCA)	RC1500107-10	T	Average RF	50	53.06	ppm	6.1	<=30
1,1,1-Trichloroethane (TCA)	RC1500107-10	T	Average RF	50	53.06	ppm	6.1	<=20
1,1,2,2-Tetrachloroethane	RC1500107-10	T	Average RF	50	51.26	ppm	2.5	<=20
1,1,2,2-Tetrachloroethane	RC1500107-10	T	Average RF	50	51.26	ppm	2.5	<=30
1,1,2-Trichloroethane	RC1500107-10	T	Average RF	50	50.44	ppm	0.9	<=20
1,1,2-Trichloroethane	RC1500107-10	T	Average RF	50	50.44	ppm	0.9	<=30
1,1,2-Trichlorotrifluoroethane	RC1500107-10	T	Average RF	50	44.85	ppm	-10.3	<=30
1,1,2-Trichlorotrifluoroethane	RC1500107-10	T	Average RF	50	44.85	ppm	-10.3	<=20
1,1-Dichloroethane (1,1-DCA)	RC1500107-10	T	Average RF	50	51.97	ppm	3.9	<=20
1,1-Dichloroethane (1,1-DCA)	RC1500107-10	T	Average RF	50	51.97	ppm	3.9	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500107-10	T	Average RF	50	50.55	ppm	1.1	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500107-10	T	Average RF	50	50.55	ppm	1.1	<=20
1,1-Dichloropropene	RC1500107-10	T	Average RF	50	51.56	ppm	3.1	<=30
1,1-Dichloropropene	RC1500107-10	T	Average RF	50	51.56	ppm	3.1	<=20
1,2,3-Trichlorobenzene	RC1500107-10	T	Average RF	50	52.69	ppm	5.4	<=20
1,2,3-Trichlorobenzene	RC1500107-10	T	Average RF	50	52.69	ppm	5.4	<=30
1,2,3-Trichloropropane	RC1500107-10	T	Average RF	50	49.21	ppm	-1.6	<=30
1,2,3-Trichloropropane	RC1500107-10	T	Average RF	50	49.21	ppm	-1.6	<=20
1,2,4-Trichlorobenzene	RC1500107-10	T	Average RF	50	53.31	ppm	6.6	<=30
1,2,4-Trichlorobenzene	RC1500107-10	T	Average RF	50	53.31	ppm	6.6	<=20
1,2,4-Trimethylbenzene	RC1500107-10	T	Average RF	50	52.65	ppm	5.3	<=30
1,2,4-Trimethylbenzene	RC1500107-10	T	Average RF	50	52.65	ppm	5.3	<=20
1,2-Dibromo-3-chloropropane (DBCP)	RC1500107-10	T	Quadratic	50	53.16	ppm	6.3	<=20
1,2-Dibromo-3-chloropropane (DBCP)	RC1500107-10	T	Quadratic	50	53.16	ppm	6.3	<=30
1,2-Dibromoethane	RC1500107-10	T	Average RF	50	56.38	ppm	12.8	<=30
1,2-Dibromoethane	RC1500107-10	T	Average RF	50	56.38	ppm	12.8	<=20
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500107-10	T	Average RF	50	53.39	ppm	6.8	<=20
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123	RC1500107-10	T	Average RF	50	53.39	ppm	6.8	<=30
1,2-Dichlorobenzene	RC1500107-10	T	Average RF	50	51.28	ppm	2.6	<=20
1,2-Dichlorobenzene	RC1500107-10	T	Average RF	50	51.28	ppm	2.6	<=30
1,2-Dichloroethane	RC1500107-10	T	Average RF	50	50.98	ppm	2.0	<=30
1,2-Dichloroethane	RC1500107-10	T	Average RF	50	50.98	ppm	2.0	<=20
1,2-Dichloropropane	RC1500107-10	T	Average RF	50	51.46	ppm	2.9	<=30
1,2-Dichloropropane	RC1500107-10	T	Average RF	50	51.46	ppm	2.9	<=20
1,3,5-Trichlorobenzene	RC1500107-10	T	Average RF	50	51.16	ppm	2.3	<=20
1,3,5-Trichlorobenzene	RC1500107-10	T	Average RF	50	51.16	ppm	2.3	<=30
1,3,5-Trimethylbenzene	RC1500107-10	T	Average RF	50	51.90	ppm	3.8	<=30
1,3,5-Trimethylbenzene	RC1500107-10	T	Average RF	50	51.90	ppm	3.8	<=20
1,3-Dichlorobenzene	RC1500107-10	T	Average RF	50	50.28	ppm	0.6	<=20
1,3-Dichlorobenzene	RC1500107-10	T	Average RF	50	50.28	ppm	0.6	<=30
1,3-Dichloropropane	RC1500107-10	T	Average RF	50	52.62	ppm	5.2	<=30
1,3-Dichloropropane	RC1500107-10	T	Average RF	50	52.62	ppm	5.2	<=20
1,4-Dichlorobenzene	RC1500107-10	T	Average RF	50	49.58	ppm	-0.8	<=20
1,4-Dichlorobenzene	RC1500107-10	T	Average RF	50	49.58	ppm	-0.8	<=30
1,4-Dioxane	RC1500107-10	T	Average RF	1000	992.1	ppm	-0.8	<=20
1,4-Dioxane	RC1500107-10	T	Average RF	1000	992.1	ppm	-0.8	<=60
1-Butanol	RC1500107-10	T	Quadratic	2500	2895	ppm	15.8	<=20
1-Butanol	RC1500107-10	T	Quadratic	2500	2895	ppm	15.8	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500107-10	T	Average RF	50	50.55	ppm	1.1	<=20

Initial Calibration Verification Summary Report

Calibration ID: RC1500107 **Instrument ID:** R-MS-10
Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500107-10	T	Average RF	50	50.48	ppm	1.0	<=20
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123	RC1500107-10	T	Average RF	50	50.48	ppm	1.0	<=30
2,2-Dichloropropane	RC1500107-10	T	Average RF	50	51.57	ppm	3.1	<=30
2,2-Dichloropropane	RC1500107-10	T	Average RF	50	51.57	ppm	3.1	<=20
2,3,6-Trichlorotoluene	RC1500107-10	T	Average RF	50	53.99	ppm	8.0	<=20
2,4,5-Trichlorotoluene	RC1500107-10	T	Average RF	50	53.70	ppm	7.4	<=20
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500107-10	T	Average RF	150	158.2	ppm	5.5	<=20
2,4-Dichlorobenzotrifluoride	RC1500107-10	T	Average RF	50	49.04	ppm	-1.9	<=20
2,5-Dichlorobenzotrifluoride	RC1500107-10	T	Average RF	50	49.89	ppm	-0.2	<=20
2-Butanone (MEK)	RC1500107-10	T	Average RF	50	50.56	ppm	1.1	<=20
2-Butanone (MEK)	RC1500107-10	T	Average RF	50	50.56	ppm	1.1	<=60
2-Chloro-1,3-butadiene	RC1500107-10	T	Average RF	50	45.06	ppm	-9.9	<=30
2-Chloro-1,3-butadiene	RC1500107-10	T	Average RF	50	45.06	ppm	-9.9	<=20
2-Chlorobenzotrifluoride	RC1500107-10	T	Average RF	50	49.48	ppm	-1.0	<=20
2-Chloroethyl Vinyl Ether	RC1500107-10	T	Average RF	50	52.50	ppm	5.0	<=30
2-Chloroethyl Vinyl Ether	RC1500107-10	T	Average RF	50	52.50	ppm	5.0	<=20
2-Chlorotoluene	RC1500107-10	T	Average RF	50	51.71	ppm	3.4	<=30
2-Chlorotoluene	RC1500107-10	T	Average RF	50	51.71	ppm	3.4	<=20
2-Hexanone	RC1500107-10	T	Average RF	50	49.85	ppm	-0.3	<=60
2-Hexanone	RC1500107-10	T	Average RF	50	49.85	ppm	-0.3	<=20
2-Methyl-1-propanol	RC1500107-10	T	Quadratic	1000	1111	ppm	11.1	<=20
2-Methyl-1-propanol	RC1500107-10	T	Quadratic	1000	1111	ppm	11.1	<=30
2-Methyl-2-propanol	RC1500107-10	T	Quadratic	1000	1097	ppm	9.7	<=20
2-Methyl-2-propanol	RC1500107-10	T	Quadratic	1000	1097	ppm	9.7	<=30
2-Nitropropane	RC1500107-10	T	Quadratic	100	111.1	ppm	11.1	<=20
2-Nitropropane	RC1500107-10	T	Quadratic	100	111.1	ppm	11.1	<=30
2-Propanol	RC1500107-10	T	Quadratic	1000	1094	ppm	9.4	<=20
2-Propanol	RC1500107-10	T	Quadratic	1000	1094	ppm	9.4	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500107-10	T	Average RF	100	106.7	ppm	6.7	<=20
3,4-Dichlorobenzotrifluoride	RC1500107-10	T	Average RF	50	49.49	ppm	-1.0	<=20
3-Chloro-1-propene	RC1500107-10	T	Average RF	50	50.90	ppm	1.8	<=20
3-Chloro-1-propene	RC1500107-10	T	Average RF	50	50.90	ppm	1.8	<=30
3-Chlorobenzotrifluoride	RC1500107-10	T	Average RF	50	48.62	ppm	-2.8	<=20
3-Chlorotoluene	RC1500107-10	T	Average RF	50	50.93	ppm	1.9	<=20
4-Chlorotoluene	RC1500107-10	T	Average RF	50	50.76	ppm	1.5	<=20
4-Chlorotoluene	RC1500107-10	T	Average RF	50	50.76	ppm	1.5	<=30
4-Isopropyltoluene	RC1500107-10	T	Average RF	50	54.05	ppm	8.1	<=20
4-Isopropyltoluene	RC1500107-10	T	Average RF	50	54.05	ppm	8.1	<=30
4-Methyl-2-pentanone	RC1500107-10	T	Average RF	50	51.03	ppm	2.1	<=20
4-Methyl-2-pentanone	RC1500107-10	T	Average RF	50	51.03	ppm	2.1	<=60
Acetone	RC1500107-10	T	Average RF	50	47.57	ppm	-4.9	<=20
Acetone	RC1500107-10	T	Average RF	50	47.57	ppm	-4.9	<=60
Acetonitrile	RC1500107-10	T	Average RF	250	227.7	ppm	-8.9	<=30
Acetonitrile	RC1500107-10	T	Average RF	250	227.7	ppm	-8.9	<=20
Acrolein	RC1500107-10	T	Average RF	100	109.7	ppm	9.7	<=20
Acrolein	RC1500107-10	T	Average RF	100	109.7	ppm	9.7	<=30
Acrylonitrile	RC1500107-10	T	Average RF	250	254.6	ppm	1.8	<=20
Acrylonitrile	RC1500107-10	T	Average RF	250	254.6	ppm	1.8	<=30
Benzene	RC1500107-10	T	Average RF	50	49.72	ppm	-0.6	<=20
Benzene	RC1500107-10	T	Average RF	50	49.72	ppm	-0.6	<=30
Bromobenzene	RC1500107-10	T	Average RF	50	50.27	ppm	0.5	<=30

Initial Calibration Verification Summary Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Bromobenzene	RC1500107-10	T	Average RF	50	50.27	ppm	0.5	<=20
Bromochloromethane	RC1500107-10	T	Average RF	50	47.79	ppm	-4.4	<=30
Bromochloromethane	RC1500107-10	T	Average RF	50	47.79	ppm	-4.4	<=20
Bromodichloromethane	RC1500107-10	T	Average RF	50	52.93	ppm	5.9	<=20
Bromodichloromethane	RC1500107-10	T	Average RF	50	52.93	ppm	5.9	<=30
Bromoform	RC1500107-10	T	Quadratic	50	54.14	ppm	8.3	<=20
Bromoform	RC1500107-10	T	Quadratic	50	54.14	ppm	8.3	<=30
Bromomethane	RC1500107-10	T	Quadratic	50	49.24	ppm	-1.5	<=60
Bromomethane	RC1500107-10	T	Quadratic	50	49.24	ppm	-1.5	<=20
Carbon Disulfide	RC1500107-10	T	Average RF	50	48.85	ppm	-2.3	<=30
Carbon Disulfide	RC1500107-10	T	Average RF	50	48.85	ppm	-2.3	<=20
Carbon Tetrachloride	RC1500107-10	T	Average RF	50	54.90	ppm	9.8	<=20
Carbon Tetrachloride	RC1500107-10	T	Average RF	50	54.90	ppm	9.8	<=30
Chlorobenzene	RC1500107-10	T	Average RF	50	48.90	ppm	-2.2	<=30
Chlorobenzene	RC1500107-10	T	Average RF	50	48.90	ppm	-2.2	<=20
Chloroethane	RC1500107-10	T	Average RF	50	49.56	ppm	-0.9	<=30
Chloroethane	RC1500107-10	T	Average RF	50	49.56	ppm	-0.9	<=20
Chloroform	RC1500107-10	T	Average RF	50	48.91	ppm	-2.2	<=30
Chloroform	RC1500107-10	T	Average RF	50	48.91	ppm	-2.2	<=20
Chloromethane	RC1500107-10	T	Average RF	50	46.54	ppm	-6.9	<=60
Chloromethane	RC1500107-10	T	Average RF	50	46.54	ppm	-6.9	<=20
Cyclohexane	RC1500107-10	T	Average RF	50	47.42	ppm	-5.2	<=20
Cyclohexane	RC1500107-10	T	Average RF	50	47.42	ppm	-5.2	<=30
Cyclohexanone	RC1500107-10	T	Average RF	1000	1137	ppm	13.7	<=30
Cyclohexanone	RC1500107-10	T	Average RF	1000	1137	ppm	13.7	<=20
Dibromochloromethane	RC1500107-10	T	Quadratic	50	54.17	ppm	8.3	<=30
Dibromochloromethane	RC1500107-10	T	Quadratic	50	54.17	ppm	8.3	<=20
Dibromomethane	RC1500107-10	T	Average RF	50	52.84	ppm	5.7	<=30
Dibromomethane	RC1500107-10	T	Average RF	50	52.84	ppm	5.7	<=20
Dichlorodifluoromethane (CFC 12)	RC1500107-10	T	Average RF	50	48.19	ppm	-3.6	<=20
Dichlorodifluoromethane (CFC 12)	RC1500107-10	T	Average RF	50	48.19	ppm	-3.6	<=60
Dichlorofluoromethane (CFC 21)	RC1500107-10	T	Average RF	50	55.93	ppm	11.9	<=20
Dichlorofluoromethane (CFC 21)	RC1500107-10	T	Average RF	50	55.93	ppm	11.9	<=30
Dichloromethane	RC1500107-10	T	Average RF	50	46.05	ppm	-7.9	<=30
Dichloromethane	RC1500107-10	T	Average RF	50	46.05	ppm	-7.9	<=20
Diethyl Ether	RC1500107-10	T	Average RF	50	51.03	ppm	2.1	<=30
Diethyl Ether	RC1500107-10	T	Average RF	50	51.03	ppm	2.1	<=20
Diisopropyl Ether	RC1500107-10	T	Average RF	50	46.17	ppm	-7.7	<=20
Diisopropyl Ether	RC1500107-10	T	Average RF	50	46.17	ppm	-7.7	<=30
Ethyl Methacrylate	RC1500107-10	T	Quadratic	50	56.62	ppm	13.2	<=30
Ethyl Methacrylate	RC1500107-10	T	Quadratic	50	56.62	ppm	13.2	<=20
Ethyl tert-Butyl Ether	RC1500107-10	T	Average RF	50	49.37	ppm	-1.3	<=30
Ethyl tert-Butyl Ether	RC1500107-10	T	Average RF	50	49.37	ppm	-1.3	<=20
Ethylbenzene	RC1500107-10	T	Average RF	50	50.85	ppm	1.7	<=30
Ethylbenzene	RC1500107-10	T	Average RF	50	50.85	ppm	1.7	<=20
Hexachlorobutadiene	RC1500107-10	T	Average RF	50	50.54	ppm	1.1	<=30
Hexachlorobutadiene	RC1500107-10	T	Average RF	50	50.54	ppm	1.1	<=20
Iodomethane	RC1500107-10	T	Quadratic	50	42.68	ppm	-14.6	<=30
Iodomethane	RC1500107-10	T	Quadratic	50	42.68	ppm	-14.6	<=20
Isopropylbenzene (Cumene)	RC1500107-10	T	Average RF	50	49.55	ppm	-0.9	<=30
Isopropylbenzene (Cumene)	RC1500107-10	T	Average RF	50	49.55	ppm	-0.9	<=20

Initial Calibration Verification Summary Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Methacrylonitrile	RC1500107-10	T	Average RF	50	52.77	ppm	5.5	<=20
Methacrylonitrile	RC1500107-10	T	Average RF	50	52.77	ppm	5.5	<=30
Methyl Acetate	RC1500107-10	T	Average RF	50	49.21	ppm	-1.6	<=30
Methyl Acetate	RC1500107-10	T	Average RF	50	49.21	ppm	-1.6	<=20
Methyl Methacrylate	RC1500107-10	T	Average RF	50	55.41	ppm	10.8	<=30
Methyl Methacrylate	RC1500107-10	T	Average RF	50	55.41	ppm	10.8	<=20
Methyl tert-Butyl Ether	RC1500107-10	T	Average RF	50	53.15	ppm	6.3	<=20
Methyl tert-Butyl Ether	RC1500107-10	T	Average RF	50	53.15	ppm	6.3	<=30
Methylcyclohexane	RC1500107-10	T	Average RF	50	49.70	ppm	-0.6	<=20
Methylcyclohexane	RC1500107-10	T	Average RF	50	49.70	ppm	-0.6	<=30
Naphthalene	RC1500107-10	T	Average RF	50	55.89	ppm	11.8	<=30
Naphthalene	RC1500107-10	T	Average RF	50	55.89	ppm	11.8	<=20
Propionitrile	RC1500107-10	T	Average RF	250	260.7	ppm	4.3	<=30
Propionitrile	RC1500107-10	T	Average RF	250	260.7	ppm	4.3	<=20
Styrene	RC1500107-10	T	Average RF	50	51.38	ppm	2.8	<=30
Styrene	RC1500107-10	T	Average RF	50	51.38	ppm	2.8	<=20
Tetrachloroethene (PCE)	RC1500107-10	T	Average RF	50	48.97	ppm	-2.1	<=20
Tetrachloroethene (PCE)	RC1500107-10	T	Average RF	50	48.97	ppm	-2.1	<=30
Tetrahydrofuran (THF)	RC1500107-10	T	Average RF	50	51.05	ppm	2.1	<=30
Tetrahydrofuran (THF)	RC1500107-10	T	Average RF	50	51.05	ppm	2.1	<=20
Toluene	RC1500107-10	T	Average RF	50	50.15	ppm	0.3	<=30
Toluene	RC1500107-10	T	Average RF	50	50.15	ppm	0.3	<=20
Trichloroethene (TCE)	RC1500107-10	T	Average RF	50	50.61	ppm	1.2	<=20
Trichloroethene (TCE)	RC1500107-10	T	Average RF	50	50.61	ppm	1.2	<=30
Trichlorofluoromethane (CFC 11)	RC1500107-10	T	Average RF	50	52.27	ppm	4.5	<=30
Trichlorofluoromethane (CFC 11)	RC1500107-10	T	Average RF	50	52.27	ppm	4.5	<=20
Vinyl Acetate	RC1500107-10	T	Quadratic	50	51.94	ppm	3.9	<=20
Vinyl Acetate	RC1500107-10	T	Quadratic	50	51.94	ppm	3.9	<=30
Vinyl Chloride	RC1500107-10	T	Average RF	50	47.21	ppm	-5.6	<=20
Vinyl Chloride	RC1500107-10	T	Average RF	50	47.21	ppm	-5.6	<=30
cis-1,2-Dichloroethene	RC1500107-10	T	Average RF	50	49.59	ppm	-0.8	<=30
cis-1,2-Dichloroethene	RC1500107-10	T	Average RF	50	49.59	ppm	-0.8	<=20
cis-1,3-Dichloropropene	RC1500107-10	T	Average RF	50	56.71	ppm	13.4	<=30
cis-1,3-Dichloropropene	RC1500107-10	T	Average RF	50	56.71	ppm	13.4	<=20
m,p-Xylenes	RC1500107-10	T	Average RF	100	99.39	ppm	-0.6	<=30
m,p-Xylenes	RC1500107-10	T	Average RF	100	99.39	ppm	-0.6	<=20
n-Butyl Acetate	RC1500107-10	T	Quadratic	50	54.93	ppm	9.9	<=20
n-Butyl Acetate	RC1500107-10	T	Quadratic	50	54.93	ppm	9.9	<=30
n-Butylbenzene	RC1500107-10	T	Average RF	50	52.93	ppm	5.9	<=30
n-Butylbenzene	RC1500107-10	T	Average RF	50	52.93	ppm	5.9	<=20
n-Heptane	RC1500107-10	T	Average RF	50	45.92	ppm	-8.2	<=30
n-Heptane	RC1500107-10	T	Average RF	50	45.92	ppm	-8.2	<=20
n-Propylbenzene	RC1500107-10	T	Average RF	50	48.96	ppm	-2.1	<=20
n-Propylbenzene	RC1500107-10	T	Average RF	50	48.96	ppm	-2.1	<=30
o-Xylene	RC1500107-10	T	Average RF	50	50.50	ppm	1.0	<=20
o-Xylene	RC1500107-10	T	Average RF	50	50.50	ppm	1.0	<=30
sec-Butylbenzene	RC1500107-10	T	Average RF	50	48.95	ppm	-2.1	<=20
sec-Butylbenzene	RC1500107-10	T	Average RF	50	48.95	ppm	-2.1	<=30
tert-Amyl Methyl Ether	RC1500107-10	T	Average RF	50	51.25	ppm	2.5	<=30
tert-Amyl Methyl Ether	RC1500107-10	T	Average RF	50	51.25	ppm	2.5	<=20
tert-Butylbenzene	RC1500107-10	T	Average RF	50	50.25	ppm	0.5	<=20

Initial Calibration Verification Summary Report

Calibration ID:	RC1500107	**Instrument ID:**	R-MS-10
		Column Name:	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
tert-Butylbenzene	RC1500107-10	T	Average RF	50	50.25	ppm	0.5	<=30
trans-1,2-Dichloroethene	RC1500107-10	T	Average RF	50	48.67	ppm	-2.7	<=20
trans-1,2-Dichloroethene	RC1500107-10	T	Average RF	50	48.67	ppm	-2.7	<=30
trans-1,3-Dichloropropene	RC1500107-10	T	Quadratic	50	57.88	ppm	15.8	<=20
trans-1,3-Dichloropropene	RC1500107-10	T	Quadratic	50	57.88	ppm	15.8	<=30
trans-1,4-Dichloro-2-butene	RC1500107-10	T	Quadratic	50	55.77	ppm	11.5	<=30
trans-1,4-Dichloro-2-butene	RC1500107-10	T	Quadratic	50	55.77	ppm	11.5	<=20
1,2-Dichloroethane-d4	RC1500107-10	S	Average RF	50	51.14	ppm	2.3	<=20
1,2-Dichloroethane-d4	RC1500107-10	S	Average RF	50	51.14	ppm	2.3	<=30
4-Bromofluorobenzene	RC1500107-10	S	Average RF	50	49.65	ppm	-0.7	<=30
4-Bromofluorobenzene	RC1500107-10	S	Average RF	50	49.65	ppm	-0.7	<=20
Dibromofluoromethane	RC1500107-10	S	Average RF	50	50.00	ppm	0.0	<=20
Dibromofluoromethane	RC1500107-10	S	Average RF	50	50.00	ppm	0.0	<=30
Toluene-d8	RC1500107-10	S	Average RF	50	50.59	ppm	1.2	<=20
Toluene-d8	RC1500107-10	S	Average RF	50	50.59	ppm	1.2	<=30

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:13:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FJ 10/20/15

KL 10/20/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	675998	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	968608	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	861493	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	477794	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	297096	50.00	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.00%			
46) surr1,1,2-dichloroetha...	6.031	65	408735	51.14	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.28%			
64) SURR3,Toluene-d8	8.488	98	1116498	50.59	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 101.18%			
69) SURR2,BFB	11.018	95	437595	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 99.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.160	85	468478	48.19	ug/L	95
3) Chloromethane	1.294	50	758077	46.54	ug/L	99
4) Vinyl Chloride	1.379	62	532957	47.21	ug/L	95
5) Bromomethane	1.611	94	220988	49.24	ug/L	96
6) Chloroethane	1.696	64	278457	49.56	ug/L	97
7) Freon 21	1.861	67	729265	55.93	ug/L	100
8) Trichlorofluoromethane	1.910	101	506595	52.27	ug/L	99
9) Diethyl Ether	2.166	59	400323	51.03	ug/L	97
10) Freon 123a	2.172	67	430765	53.39	ug/L	99
11) Freon 123	2.233	83	422240	50.48	ug/L	98
12) Acrolein	2.269	56	256618	109.74	ug/L	96
13) 1,1-Diclethene	2.361	96	271763	50.55	ug/L	99
14) Freon 113	2.373	101	269208	44.85	ug/L	99
15) Acetone	2.416	43	289948	47.57	ug/L	95
16) 2-Propanol	2.574	45	1311853	1093.57	ug/L	97
17) Iodomethane	2.501	142	365747	42.68	ug/L	98
18) Carbon Disulfide	2.562	76	769532	48.85	ug/L	99
19) Acetonitrile	2.684	40	339752m	227.72	ug/L	
20) Allyl Chloride	2.727	76	156680	50.90	ug/L #	93
21) Methyl Acetate	2.751	43	614849	49.21	ug/L	99
22) Methylene Chloride	2.849	84	323585	46.05	ug/L	99
23) TBA	3.013	59	1593291	1097.36	ug/L	97
24) Acrylonitrile	3.129	53	1451995	254.62	ug/L	99
25) Methyl-t-Butyl Ether	3.184	73	1166487	53.15	ug/L	98
26) trans-1,2-Dichloroethene	3.166	96	296204	48.67	ug/L	97
27) 1,1-Diclethane	3.708	63	654838	51.97	ug/L	98
28) Vinyl Acetate	3.818	86	75399	51.94	ug/L #	82
29) DIPE	3.854	45	1673721	46.17	ug/L	97
30) 2-Chloro-1,3-Butadiene	3.836	53	684117	45.06	ug/L	98
31) ETBE	4.434	59	1160432	49.37	ug/L	98
32) 2,2-Dichloropropane	4.604	77	341630	51.57	ug/L	95
33) cis-1,2-Dichloroethene	4.623	96	339289	49.59	ug/L	97
34) 2-Butanone	4.671	43	437655	50.56	ug/L	93
35) Propionitrile	4.763	54	602681	260.73	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:13:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) Bromochloromethane	5.049	130	219477	47.79	ug/L		94
37) Methacrylonitrile	5.062	67	220994	52.77	ug/L		92
38) Tetrahydrofuran	5.141	42	286794	51.05	ug/L		88
39) Chloroform	5.244	83	553537	48.91	ug/L		98
40) 1,1,1-Trichloroethane	5.513	97	454457	53.06	ug/L		99
42) Cyclohexane	5.598	41	487957	47.42	ug/L		98
44) Carbontetrachloride	5.787	121	120887	54.90	ug/L		88
45) 1,1-Dichloropropene	5.799	75	435797	51.56	ug/L		94
47) Benzene	6.104	78	1283737	49.72	ug/L		93
48) 1,2-Dichloroethane	6.147	62	559148	50.98	ug/L		98
49) Iso-Butyl Alcohol	6.147	43	926698	1110.61	ug/L		96
50) TAME	6.342	73	955565	51.25	ug/L		97
51) n-Heptane	6.586	43	632893	45.92	ug/L		98
52) 1-Butanol	7.073	56	1201579	2895.24	ug/L		96
53) Trichloroethene	7.031	130	335972	50.61	ug/L		97
54) Methylcyclohexane	7.262	55	574168	49.70	ug/L		98
55) 1,2-Diclpropane	7.305	63	391679	51.46	ug/L		99
56) Dibromomethane	7.445	93	218989	52.84	ug/L		98
57) 1,4-Dioxane	7.506	88	163780	992.12	ug/L		98
58) Methyl Methacrylate	7.531	69	331206	55.41	ug/L		98
59) Bromodichloromethane	7.665	83	402163	52.93	ug/L		96
60) 2-Nitropropane	7.945	41	202340	111.05	ug/L		96
61) 2-Chloroethylvinyl Ether	8.067	63	313313	52.50	ug/L		95
62) cis-1,3-Dichloropropene	8.201	75	520221	56.71	ug/L		96
63) 4-Methyl-2-pentanone	8.402	43	824190	51.03	ug/L		98
65) Toluene	8.561	91	1329967	50.15	ug/L		97
66) trans-1,3-Dichloropropene	8.829	75	464834	57.88	ug/L		98
67) Ethyl Methacrylate	8.963	69	558653	56.62	ug/L		92
68) 1,1,2-Trichloroethane	9.012	97	313261	50.44	ug/L		98
71) Tetrachloroethene	9.146	164	260808	48.97	ug/L		96
72) 2-Hexanone	9.299	43	610331	49.85	ug/L		97
73) 1,3-Dichloropropane	9.177	76	566627	52.62	ug/L		98
74) Dibromochloromethane	9.402	129	325382	54.17	ug/L		96
75) N-Butyl Acetate	9.451	43	1167374	54.93	ug/L		98
76) 1,2-Dibromoethane	9.494	107	338993	56.38	ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	502565	48.62	ug/L		100
78) Chlorobenzene	9.981	112	887961	48.90	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	444544	50.55	ug/L		99
80) 1,1,1,2-Tetrachloroethane	10.067	131	320219	54.21	ug/L		97
81) Ethylbenzene	10.103	106	466618	50.85	ug/L		98
82) (m+p)Xylene	10.213	106	1166083	99.39	ug/L		96
83) o-Xylene	10.567	106	587775	50.50	ug/L		96
84) Styrene	10.579	104	1029732	51.38	ug/L		99
85) Bromoform	10.731	173	239455	54.14	ug/L		93
86) 2-Chlorobenzotrifluoride	10.804	180	506935	49.48	ug/L		99
87) Isopropylbenzene	10.896	105	1505420	49.55	ug/L		99
88) Cyclohexanone	10.957	55	2263411	1137.49	ug/L		99
89) trans-1,4-Dichloro-2-B...	11.201	53	196711	55.77	ug/L		96
91) 1,1,2,2-Tetrachloroethane	11.152	83	495456	51.26	ug/L		96
92) Bromobenzene	11.140	156	402808	50.27	ug/L		97
93) 1,2,3-Trichloropropane	11.182	110	154233	49.21	ug/L	#	87

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:13:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

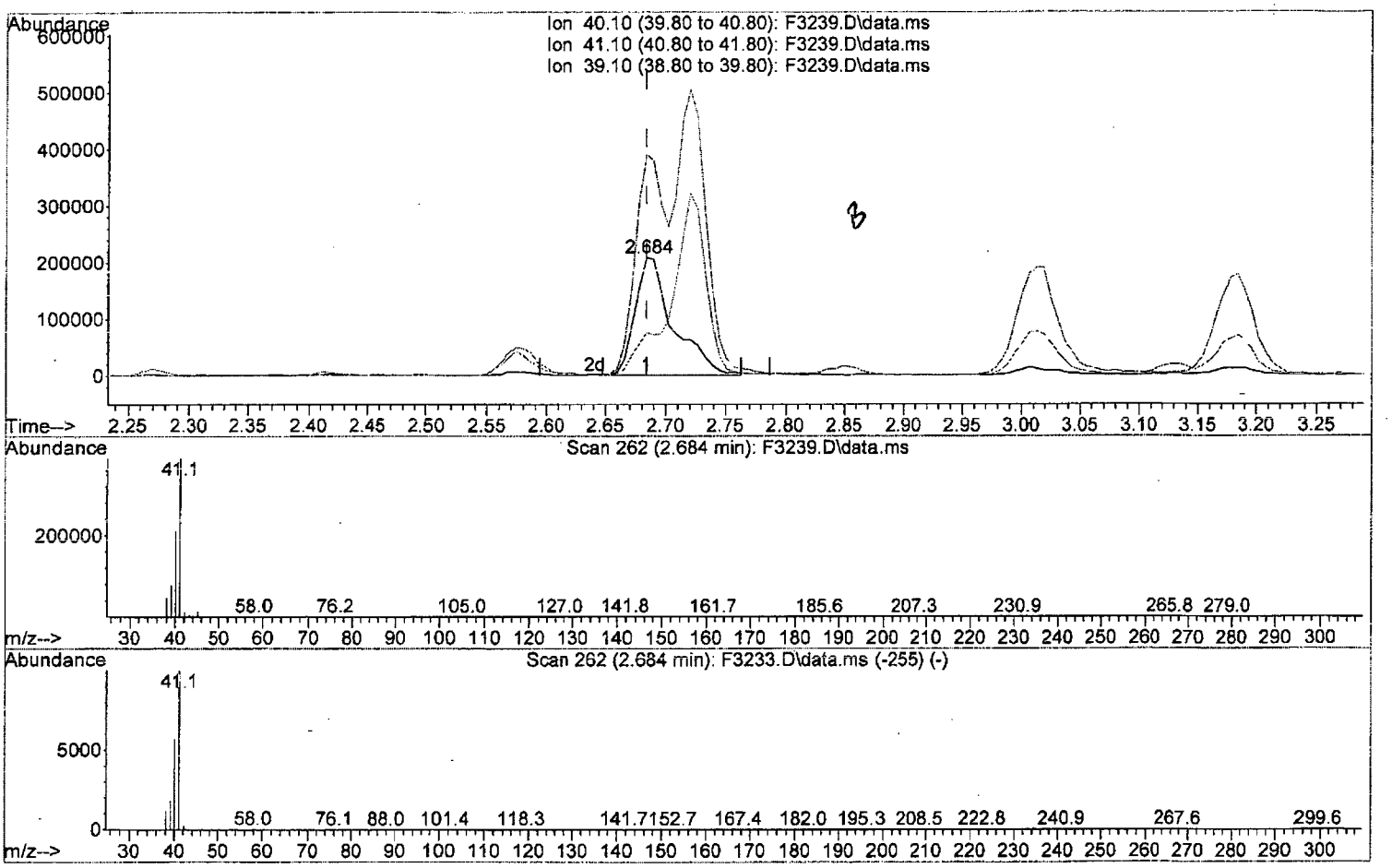
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	n-Propylbenzene	11.249	91	1750023	48.96	ug/L	100
95)	2-Chlorotoluene	11.310	91	1070671	51.71	ug/L	99
96)	3-Chlorotoluene	11.365	91	1110503	50.93	ug/L	98
97)	4-Chlorotoluene	11.402	91	1250612	50.76	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	1296906	51.90	ug/L	100
99)	tert-Butylbenzene	11.670	119	1143950	50.25	ug/L	99
100)	1,2,4-Trimethylbenzene	11.713	105	1360821	52.65	ug/L	98
101)	3,4-Dichlorobenzotrifl...	11.774	214	392166	49.49	ug/L	96
102)	sec-Butylbenzene	11.853	105	1597406	48.95	ug/L	98
103)	p-Isopropyltoluene	11.975	119	1433368	54.05	ug/L	98
104)	1,3-Dclbenz	11.932	146	763173	50.28	ug/L	98
105)	1,4-Dclbenz	12.005	146	763774	49.58	ug/L	94
106)	2,4-Dichlorobenzotrifl...	12.060	214	349900	49.04	ug/L	96
107)	2,5-Dichlorobenzotrifl...	12.103	214	407711	49.89	ug/L	94
108)	n-Butylbenzene	12.304	91	1307103	52.93	ug/L	100
109)	1,2-Dclbenz	12.310	146	771398	51.28	ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.926	157	122521	53.16	ug/L	88
111)	Trielution Dichlorotol...	13.048	125	2190930	158.24	ug/L	100
112)	1,3,5-Trichlorobenzene	13.103	180	620128	51.16	ug/L	98
113)	Coelution Dichlorotoluene	13.377	125	1653391	106.68	ug/L	100
114)	1,2,4-Tcbenzene	13.584	180	617993	53.31	ug/L	96
115)	Hexachlorobt	13.718	225	257396	50.54	ug/L	94
116)	Naphthalen	13.773	128	1943141	55.89	ug/L	99
117)	1,2,3-Tclbenzene	13.962	180	627908	52.69	ug/L	99
118)	2,4,5-Trichlorotoluene	14.548	159	483311	53.70	ug/L	98
119)	2,3,6-Trichlorotoluene	14.633	159	441955	53.99	ug/L	95

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:04:40 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F3239.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 305.05 ug/L

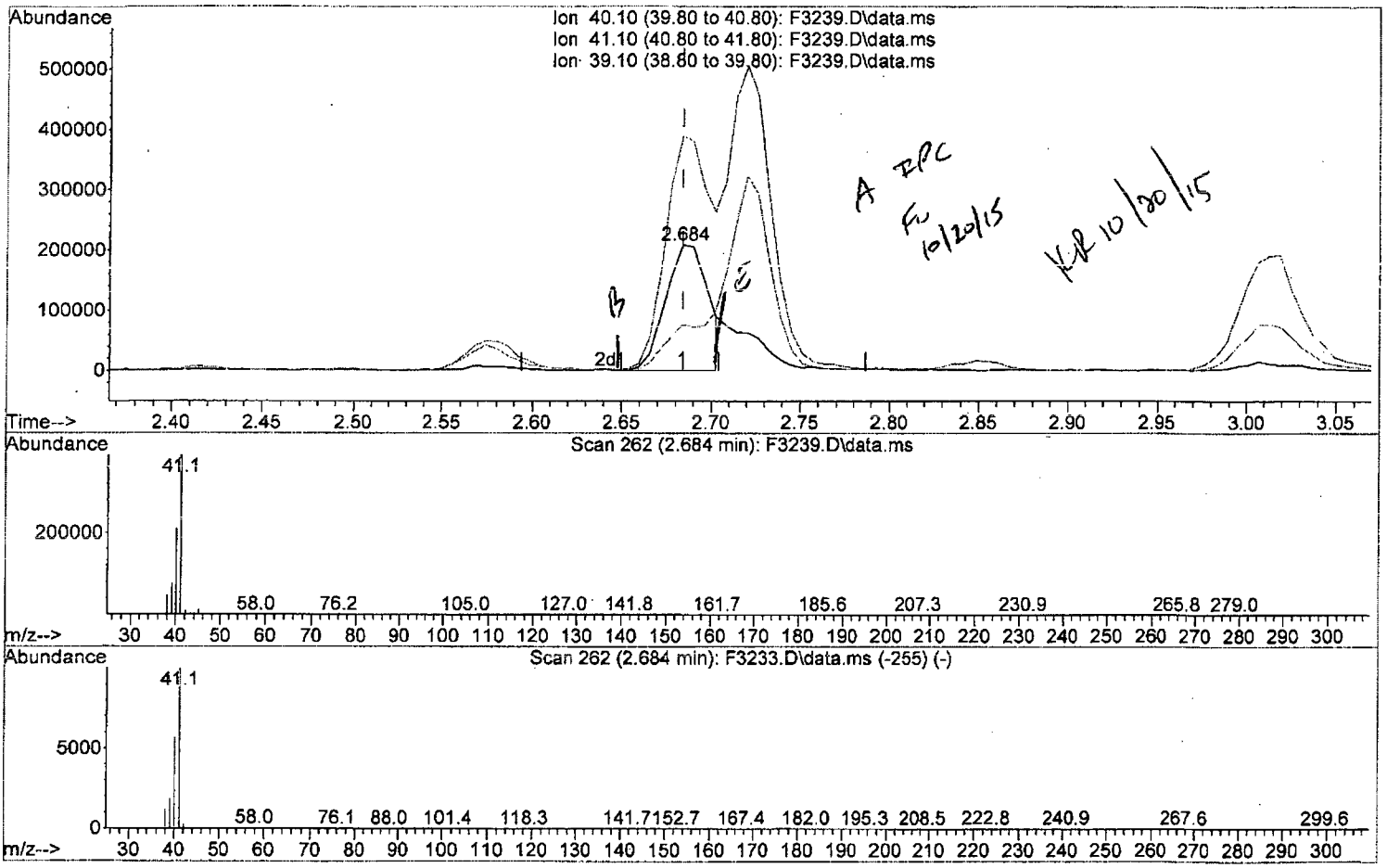
response 455136

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	186.72
39.10	34.00	36.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:04:40 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F3239.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 227.72 ug/L m

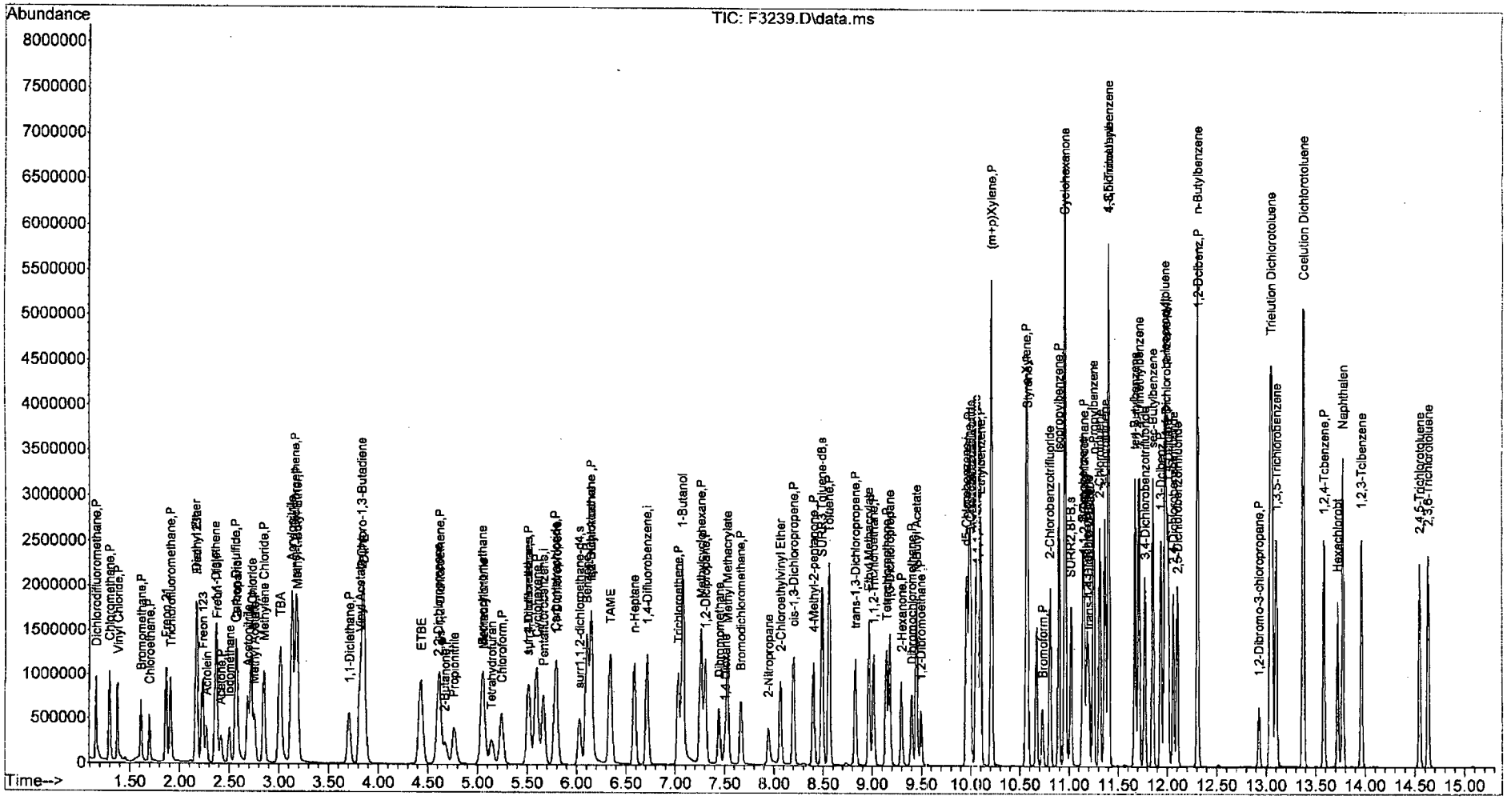
response 339752

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	186.72
39.10	34.00	36.38
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3239.D
Acq On : 19 Oct 2015 10:50 pm
Operator : F. Naegler
Sample : 50 PPB ICV Inst : MSVOA10
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Oct 20 12:13:31 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/21/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122115\F5184.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477252
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	48.8	0.6335	0.6177	-2.5	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	45.8	1.011	0.9256	-8.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.2	0.3206	0.3024	-5.7	NA	± 20 %	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	47.6	0.4440	0.4223	-4.9	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	46.4	0.9320	0.8644	-7.3	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	52.4	0.3976	0.4167	4.8	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	44.9	1.247	1.119	-10.3	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	46.7	1.213	1.133	-6.6	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	46.7	NA	NA	NA	-6.6	± 20 %	Quadratic
1,2-Dibromoethane	50.0	53.0	0.3490	0.3698	6.0	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.8	1.574	1.568	-0.4	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	41.8	0.5662	0.4729	-16.5	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	44.8	0.3929	0.3516	-10.5	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	49.7	1.589	1.580	-0.5	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	49.9	1.612	1.610	-0.1	NA	± 20 %	Average RF
1,4-Dioxane	1000	752	0.008522	0.006405	-24.8 *	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	40.7	0.6403	0.5213	-18.6	NA	± 20 %	Average RF
2-Hexanone	50.0	38.6	0.7105	0.5488	-22.8 *	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	37.9	0.8337	0.6316	-24.2 *	NA	± 20 %	Average RF
Acetone	50.0	43.0	0.4508	0.3879	-14.0	NA	± 20 %	Average RF
Benzene	50.0	45.1	1.333	1.203	-9.7	NA	± 20 %	Average RF
Bromochloromethane	50.0	50.9	0.3397	0.3454	1.7	NA	± 20 %	Average RF
Bromodichloromethane	50.0	49.9	0.3922	0.3918	-0.1	NA	± 20 %	Average RF
Bromoform	50.0	52.7	NA	NA	NA	5.4	± 20 %	Quadratic
Bromomethane	50.0	60.2	NA	NA	NA	20.4 *	± 20 %	Quadratic
Carbon Disulfide	50.0	53.3	1.165	1.242	6.6	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	50.9	0.1137	0.1158	1.9	NA	± 20 %	Average RF
Chlorobenzene	50.0	48.0	1.054	1.011	-4.1	NA	± 20 %	Average RF
Chloroethane	50.0	50.1	0.4156	0.4165	0.2	NA	± 20 %	Average RF
Chloroform	50.0	47.5	0.8370	0.7953	-5.0	NA	± 20 %	Average RF
Chloromethane	50.0	45.6	1.205	1.098	-8.9	NA	± 20 %	Average RF
Cyclohexane	50.0	43.5	0.5312	0.4617	-13.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	55.1	NA	NA	NA	10.2	± 20 %	Quadratic
Dichlorodifluoromethane (CFC 12)	50.0	49.0	0.7191	0.7042	-2.1	NA	± 20 %	Average RF
Dichloromethane	50.0	47.4	0.5197	0.4922	-5.3	NA	± 20 %	Average RF
Ethylbenzene	50.0	49.0	0.5326	0.5221	-2.0	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	48.0	1.763	1.691	-4.1	NA	± 20 %	Average RF
Methyl Acetate	50.0	44.4	0.9241	0.8198	-11.3	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	44.2	1.623	1.434	-11.7	NA	± 20 %	Average RF
Methylcyclohexane	50.0	49.1	0.5964	0.5860	-1.7	NA	± 20 %	Average RF
Styrene	50.0	47.7	1.163	1.109	-4.6	NA	± 20 %	Average RF

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/21/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122115\F5184.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477252
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	48.8	0.3091	0.3017	-2.4	NA	± 20 %	Average RF
Toluene	50.0	47.9	1.369	1.310	-4.3	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	50.5	0.3427	0.3461	1.0	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	49.1	0.7168	0.7040	-1.8	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.4	0.8349	0.8076	-3.3	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.4	0.5060	0.4896	-3.3	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	50.7	0.4736	0.4797	1.3	NA	± 20 %	Average RF
m,p-Xylenes	100	95.3	0.6810	0.6486	-4.7	NA	± 20 %	Average RF
o-Xylene	50.0	48.4	0.6755	0.6531	-3.3	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	50.0	0.4501	0.4499	0.0	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	50.7	NA	NA	NA	1.4	± 20 %	Quadratic
4-Bromofluorobenzene	50.0	50.4	0.4549	0.4587	0.8	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	51.5	0.3067	0.3162	3.1	NA	± 20 %	Average RF
Toluene-d8	50.0	51.9	1.139	1.182	3.7	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FV 12/21/15

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	0.7191	0.7042	2.1	87	0.00	
3	P	Chloromethane	1.2047	1.0977	8.9	84	-0.01	
4	P	Vinyl Chloride	0.8349	0.8076	3.3	90	0.00	
5	P	Bromomethane	0.3944	0.3806	~~-20.4~~ ~~3.5~~	119	-0.01	(1)
6	P	Chloroethane	0.4156	0.4165	-0.2	93	0.00	
7		Freon 21	0.9644	1.0010	-3.8	96	0.00	
8	P	Trichlorofluoromethane	0.7168	0.7040	1.8	89	0.00	
9		Diethyl Ether	0.5802	0.5438	6.3	86	-0.01	
10		Freon 123a	0.5968	0.6101	-2.2	97	-0.01	
11		Freon 123	0.6186	0.6684	-8.1	102	0.00	
12		Acrolein	0.1730	0.1271	26.5#	67	0.00	(2)
13		1,1-Diclethene	0.3976	0.4167	-4.8	98	-0.01	
14	P	Freon 113	0.4440	0.4223	4.9	93	0.00	
15	P	Acetone	0.4508	0.3879	14.0	81	0.00	
16		2-Propanol	0.0868	0.0731	14.1 ~~15.8~~	75	0.00	
17		Iodomethane	0.5913	0.7280	~~-11.3~~ ~~-23.1#~~	99	0.00	
18	P	Carbon Disulfide	1.1651	1.2416	-6.6	99	0.00	
19		Acetonitrile	0.1104	0.0784	29.0#	65	0.00	(3)
20		Allyl Chloride	0.2277	0.2115	7.1	86	0.00	
21	P	Methyl Acetate	0.9241	0.8198	11.3	81	-0.01	
22	P	Methylene Chloride	0.5197	0.4922	5.3	95	0.00	
23		TBA	0.1024	0.0817	20.1 ~~20.2#~~	68	0.00	NT
24		Acrylonitrile	0.4218	0.3663	13.2	76	0.00	
25	P	Methyl-t-Butyl Ether	1.6233	1.4339	11.7	80	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4499	0.0	96	0.00	
27	P	1,1-Diclethane	0.9320	0.8644	7.3	87	0.00	
28		Vinyl Acetate	0.0998	0.1124	~~-4.6~~ ~~-12.6~~	99	-0.01	
29		DIPE	~~2.6811~~	~~0.0006~~	~~100.0#~~	~~0#~~	~~-0.10~~	
30		2-Chloro-1,3-Butadiene	1.1230	1.1287	-0.5	93	0.00	
31		ETBE	~~1.7384~~	~~0.0004~~	~~100.0#~~	~~0#~~	~~0.08~~	
32		2,2-Dichloropropane	0.4900	0.5323	-8.6	102	0.00	
33	P	cis-1,2-Dichloroethene	0.5060	0.4896	3.2	94	0.00	
34	P	2-Butanone	0.6403	0.5213	18.6	78	-0.04	
35		Propionitrile	0.1710	0.1460	14.6	75	-0.02	
36		Bromochloromethane	0.3397	0.3454	-1.7	96	0.00	
37		Methacrylonitrile	0.3097	0.2715	12.3	79	0.00	
38		Tetrahydrofuran	0.4155	0.3094	25.5#	67	-0.02	(4)
39	P	Chloroform	0.8370	0.7953	5.0	90	0.00	
40	P	1,1,1-Trichloroethane	0.6335	0.6177	2.5	89	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	96	0.00	
42	P	Cyclohexane	0.5312	0.4617	13.1	85	0.00	
43	s	surr4,Dibrflmethane	0.3067	0.3162	-3.1	98	0.00	
44	P	Carbontetrachloride	0.1137	0.1158	-1.8	96	0.00	
45		1,1-Dichloropropene	0.4363	0.3944	9.6	89	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4125	0.3722	9.8	86	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3327	1.2031	9.7	88	0.00	
48	P	1,2-Dichloroethane	0.5662	0.4729	16.5	79	0.00	(5)
49		Iso-Butyl Alcohol	0.0408	0.0308	22.9 ~~24.5#~~	67	0.00	
50		TAME	~~0.9624~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-6.34~~#	
51		n-Heptane	0.7115	0.6628	6.8	92	-0.01	
52		1-Butanol	~~0.0185~~	~~0.0000~~	~~100.0#~~	~~0#~~	-0.01	
53	P	Trichloroethene	0.3427	0.3461	-1.0	95	0.00	
54	P	Methylcyclohexane	0.5964	0.5860	1.7	97	0.00	
55	P	1,2-Diclpropane	0.3929	0.3516	10.5	88	0.00	
56		Dibromomethane	0.2139	0.2076	2.9	90	0.00	(6)
57		1,4-Dioxane	0.0085	0.0064	24.7#	73	0.00	
58		Methyl Methacrylate	0.3085	0.2691	12.8	82	0.00	
59	P	Bromodichloromethane	0.3922	0.3918	0.1	93	0.00	
60		2-Nitropropane	0.0961	0.0997	-6.8 ~~-3.7~~	99	0.00	
61		2-Chloroethylvinyl Ether	0.3080	0.2141	30.5#	66	0.00	INT
62	P	cis-1,3-Dichloropropene	0.4736	0.4797	-1.3	89	0.00	
63	P	4-Methyl-2-pentanone	0.8337	0.6316	24.2#	75	0.00	(7)
64	s	SURR3,Toluene-d8	1.1392	1.1817	-3.7	98	0.00	
65	P	Toluene	1.3690	1.3105	4.3	91	0.00	
66	P	trans-1,3-Dichloropropene	0.4071	0.4138	-1.4 ~~-1.6~~	90	0.00	
67		Ethyl Methacrylate	0.4863	0.4849	2.9 ~~0.3~~	86	0.00	
68	P	1,1,2-Trichloroethane	0.3206	0.3024	5.7	90	0.00	
69	s	SURR2,BFB	0.4549	0.4587	-0.8	98	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	95	0.00	
71	P	Tetrachloroethene	0.3091	0.3017	2.4	96	0.00	(8)
72	P	2-Hexanone	0.7105	0.5488	22.8#	74	0.00	
73		1,3-Dichloropropane	0.6250	0.5738	8.2	87	0.00	
74	P	Dibromochloromethane	0.3464	0.3850	-10.2 ~~-11.1~~	99	0.00	
75		N-Butyl Acetate	1.0956	1.0693	12.8 ~~-2.4~~	84	0.00	
76	P	1,2-Dibromoethane	0.3490	0.3698	-6.0	92	0.00	
77		3-Chlorobenzotrifluoride	~~0.6000~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-0.01~~	
78	P	Chlorobenzene	1.0539	1.0106	4.1	94	0.00	
79		4-Chlorobenzotrifluoride	~~0.5104~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
80		1,1,1,2-Tetrachloroethane	0.3243	0.3471	-1.6 ~~-7.0~~	91	0.00	
81	P	Ethylbenzene	0.5326	0.5221	2.0	92	0.00	
82	P	(m+p)Xylene	0.6810	0.6486	4.8	91	0.00	
83	P	o-Xylene	0.6755	0.6531	3.3	91	0.00	
84	P	Styrene	1.1631	1.1091	4.6	90	0.00	
85	P	Bromoform	0.2540	0.2695	-5.4 ~~-6.1~~	97	0.00	
86		2-Chlorobenzotrifluoride	~~0.5946~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.02~~	
87	P	Isopropylbenzene	1.7632	1.6915	4.1	91	0.00	
88		Cyclohexanone	0.1155	0.1090	5.6	81	0.00	
89		trans-1,4-Dichloro-2-Butene	0.1996	0.1840	8.5 ~~7.8~~	83	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	96	0.00	
91	P	1,1,2,2-Tetrachloroethane	1.0114	0.9256	8.5	83	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8385	0.8209	2.1	94	0.00
93		1,2,3-Trichloropropane	0.3280	0.2889	11.9	86	0.00
94		n-Propylbenzene	3.7407	3.7380	0.1	93	0.00
95		2-Chlorotoluene	2.1667	2.0708	4.4	89	0.00
96		3-Chlorotoluene	2.2816	0.0000	100.0#	0#	-11.37#
97		4-Chlorotoluene	2.5783	2.4673	4.3	92	0.00
98		1,3,5-Trimethylbenzene	2.6149	2.5342	3.1	90	0.00
99		tert-Butylbenzene	2.3823	2.3174	2.7	91	0.00
100		1,2,4-Trimethylbenzene	2.7046	2.6409	2.4	92	0.00
101		3,4-Dichlorobenzotrifluorid	0.8293	0.0000	100.0#	0#	0.00
102		sec-Butylbenzene	3.4150	3.4001	0.4	93	0.00
103		p-Isopropyltoluene	2.7754	2.8392	-2.3	94	0.00
104	P	1,3-Dclbenz	1.5885	1.5803	0.5	96	0.00
105	P	1,4-Dclbenz	1.6120	1.6097	0.1	96	0.00
106		2,4-Dichlorobenzotrifluorid	0.7466	0.0000	100.0#	0#	0.02
107		2,5-Dichlorobenzotrifluorid	0.8551	0.0000	100.0#	0#	-0.01
108		n-Butylbenzene	2.5844	2.6632	-3.0	97	0.00
109	P	1,2-Dclbenz	1.5741	1.5676	0.4	95	0.00
110	P	1,2-Dibromo-3-chloropropane	0.1926	0.2205	-14.5	84	0.00
111		Trielution Dichlorotoluene	1.4489	0.0003	100.0#	0#	0.00
112		1,3,5-Trichlorobenzene	1.2685	0.0004	100.0#	0#	0.00
113		Coelution Dichlorotoluene	1.6220	0.0002	100.0#	0#	0.02
114	P	1,2,4-Tcbenzene	1.2131	1.1331	6.6	86	0.00
115		Hexachlorobt	0.5329	0.5117	4.0	94	0.00
116		Naphthalen	3.6385	3.3592	7.7	80	0.00
117		1,2,3-Tclbenzene	1.2470	1.1192	10.2	82	0.00
118		2,4,5-Trichlorotoluene	0.9419	0.0000	100.0#	0#	-0.07
119		2,3,6-Trichlorotoluene	0.8566	0.0000	100.0#	0#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FJ 12/21/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	634971	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	942466	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	833678	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	459498	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	297973	51.54	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 103.08%				
46) surr1,1,2-dichloroetha...	6.025	65	350794	45.11	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 90.22%				
64) SURR3,Toluene-d8	8.488	98	1113721	51.86	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.72%				
69) SURR2,BFB	11.018	95	432355	50.42	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.84%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.154	85	447133	48.96	ug/L		99
3) Chloromethane	1.288	50	696979	45.56	ug/L		97
4) Vinyl Chloride	1.373	62	512815	48.36	ug/L		96
5) Bromomethane	1.611	94	241701	60.21	ug/L		97
6) Chloroethane	1.697	64	264470	50.11	ug/L		99
7) Freon 21	1.861	67	635608	51.90	ug/L		99
8) Trichlorofluoromethane	1.910	101	447050	49.11	ug/L		99
9) Diethyl Ether	2.160	59	345289	46.86	ug/L		96
10) Freon 123a	2.166	67	387368	51.11	ug/L		96
11) Freon 123	2.227	83	424437	54.03	ug/L		95
12) Acrolein	2.264	56	403371	183.64	ug/L		96
13) 1,1-Diclethene	2.361	96	264585	52.40	ug/L	#	85
14) Freon 113	2.367	101	268172	47.56	ug/L		99
15) Acetone	2.410	43	246304	43.02	ug/L		90
16) 2-Propanol	2.568	45	928647	859.17	ug/L		96
17) Iodomethane	2.495	142	462228	55.65	ug/L		95
18) Carbon Disulfide	2.556	76	788366	53.28	ug/L		98
19) Acetonitrile	2.678	40	248895m	177.60	ug/L		
20) Allyl Chloride	2.715	76	134304	46.45	ug/L	#	91
21) Methyl Acetate	2.745	43	520543	44.35	ug/L		98
22) Methylene Chloride	2.843	84	312506	47.35	ug/L		89
23) TBA	3.001	59	1037012	798.86	ug/L		97
24) Acrylonitrile	3.123	53	1162872	217.09	ug/L		99
25) Methyl-t-Butyl Ether	3.178	73	910456	44.17	ug/L		96
26) trans-1,2-Dichloroethene	3.160	96	285680	49.98	ug/L		98
27) 1,1-Diclethane	3.702	63	548880	46.37	ug/L		98
28) Vinyl Acetate	3.812	86	71348	52.30	ug/L	#	81
30) 2-Chloro-1,3-Butadiene	3.836	53	716704	50.25	ug/L		94
32) 2,2-Dichloropropane	4.604	77	337993	54.32	ug/L		94
33) cis-1,2-Dichloroethene	4.617	96	310859	48.37	ug/L		87
34) 2-Butanone	4.672	43	331007	40.71	ug/L		97
35) Propionitrile	4.763	54	463662	213.55	ug/L		99
36) Bromochloromethane	5.043	130	219328	50.85	ug/L	#	82
37) Methacrylonitrile	5.056	67	172374	43.82	ug/L		92

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38)	Tetrahydrofuran	5.135	42	196456	37.23	ug/L		87
39)	Chloroform	5.239	83	505020	47.51	ug/L		97
40)	1,1,1-Trichloroethane	5.507	97	392231	48.75	ug/L		98
42)	Cyclohexane	5.592	41	435095	43.46	ug/L		96
44)	Carbontetrachloride	5.775	121	109144	50.94	ug/L	#	77
45)	1,1-Dichloropropene	5.793	75	371667	45.20	ug/L		96
47)	Benzene	6.098	78	1133848	45.13	ug/L		99
48)	1,2-Dichloroethane	6.141	62	445647	41.76	ug/L		99
49)	Iso-Butyl Alcohol	6.141	43	579619	771.25	ug/L		98
51)	n-Heptane	6.580	43	624698	46.58	ug/L		95
52)	1-Butanol	7.067	56	1257	27.64	ug/L		84
53)	Trichloroethene	7.025	130	326167	50.49	ug/L		99
54)	Methylcyclohexane	7.256	55	552328	49.13	ug/L		93
55)	1,2-Diclpropane	7.305	63	331410	44.75	ug/L		99
56)	Dibromomethane	7.439	93	195691	48.53	ug/L		92
57)	1,4-Dioxane	7.500	88	120722	751.57	ug/L		92
58)	Methyl Methacrylate	7.531	69	253593	43.60	ug/L	#	85
59)	Bromodichloromethane	7.665	83	369221	49.94	ug/L		97
60)	2-Nitropropane	7.945	41	187917	106.82	ug/L		90
61)	2-Chloroethylvinyl Ether	8.067	63	201829	34.76	ug/L		91
62)	cis-1,3-Dichloropropene	8.195	75	452108	50.65	ug/L		98
63)	4-Methyl-2-pentanone	8.403	43	595231	37.88	ug/L		94
65)	Toluene	8.561	91	1235070	47.86	ug/L		98
66)	trans-1,3-Dichloropropene	8.829	75	389947	50.68	ug/L		98
67)	Ethyl Methacrylate	8.963	69	456979	48.56	ug/L		85
68)	1,1,2-Trichloroethane	9.012	97	284981	47.16	ug/L		97
71)	Tetrachloroethene	9.146	164	251499	48.79	ug/L		98
72)	2-Hexanone	9.293	43	457544	38.62	ug/L		97
73)	1,3-Dichloropropane	9.177	76	478385	45.91	ug/L		89
74)	Dibromochloromethane	9.402	129	320927	55.12	ug/L		97
75)	N-Butyl Acetate	9.451	43	891412	43.60	ug/L		96
76)	1,2-Dibromoethane	9.494	107	308263	52.98	ug/L		97
78)	Chlorobenzene	9.982	112	842514	47.95	ug/L		91
80)	1,1,1,2-Tetrachloroethane	10.067	131	289353	50.81	ug/L		93
81)	Ethylbenzene	10.097	106	435287	49.02	ug/L		97
82)	(m+p)Xylene	10.213	106	1081458	95.25	ug/L		100
83)	o-Xylene	10.567	106	544512	48.35	ug/L		97
84)	Styrene	10.579	104	924658	47.68	ug/L		96
85)	Bromoform	10.731	173	224697	52.69	ug/L		100
87)	Isopropylbenzene	10.896	105	1410132	47.97	ug/L		98
88)	Cyclohexanone	10.957	55	1818167	944.22	ug/L		90
89)	trans-1,4-Dichloro-2-B...	11.201	53	153433	45.77	ug/L		91
91)	1,1,2,2-Tetrachloroethane	11.152	83	425315	45.76	ug/L		94
92)	Bromobenzene	11.140	156	377185	48.95	ug/L		95
93)	1,2,3-Trichloropropane	11.182	110	132727	44.04	ug/L	#	87
94)	n-Propylbenzene	11.250	91	1717592	49.96	ug/L		98
95)	2-Chlorotoluene	11.311	91	951508	47.79	ug/L		99
97)	4-Chlorotoluene	11.402	91	1133724	47.85	ug/L		97
98)	1,3,5-Trimethylbenzene	11.402	105	1164475	48.46	ug/L		99
99)	tert-Butylbenzene	11.670	119	1064837	48.64	ug/L		95
100)	1,2,4-Trimethylbenzene	11.707	105	1213501	48.82	ug/L		100

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

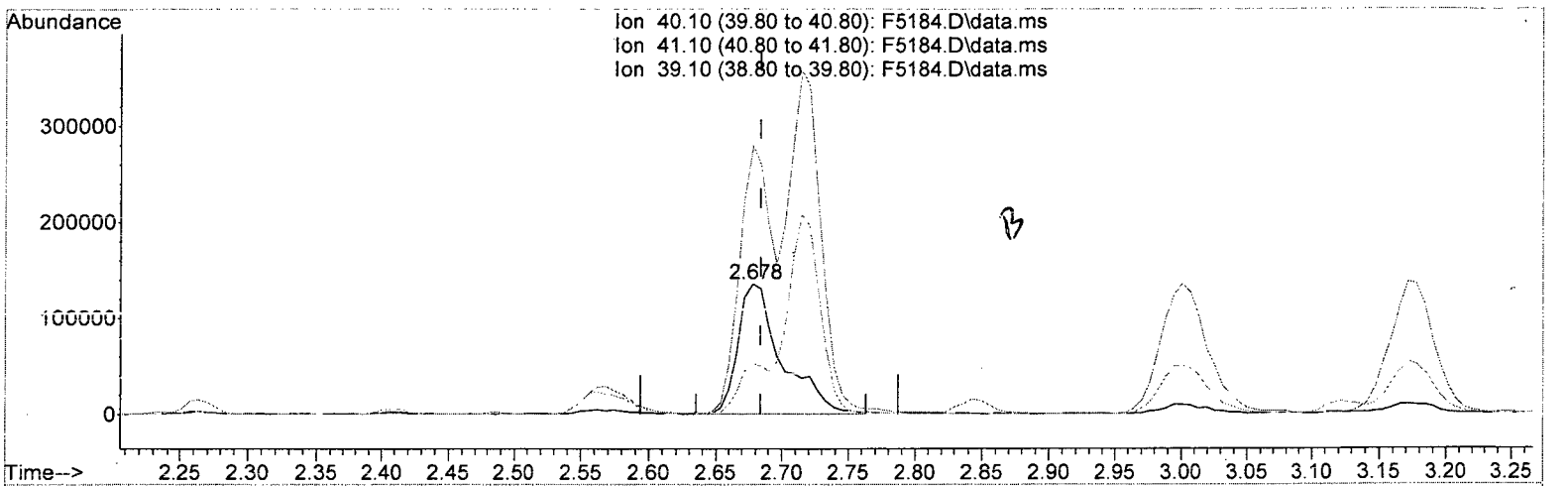
Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

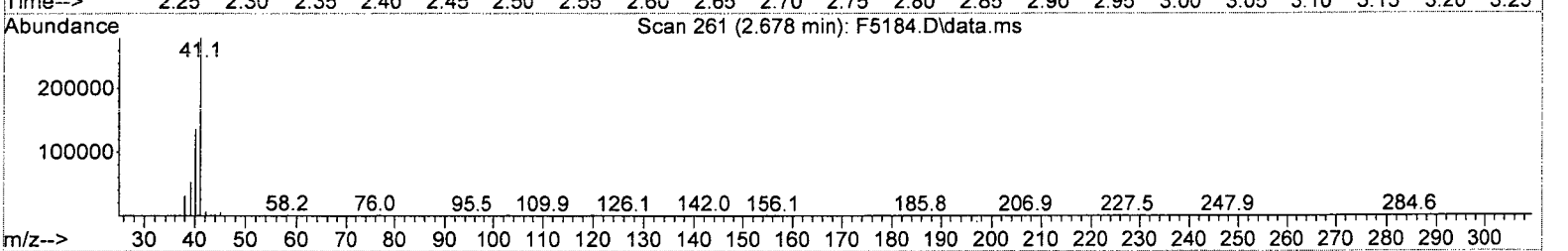
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	1562317	49.78	ug/L	98
103) p-Isopropyltoluene	11.975	119	1304607	51.15	ug/L	98
104) 1,3-Dclbenz	11.932	146	726128	49.74	ug/L	100
105) 1,4-Dclbenz	12.006	146	739642	49.93	ug/L	98
108) n-Butylbenzene	12.304	91	1223714	51.52	ug/L	100
109) 1,2-Dclbenz	12.310	146	720297	49.79	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.926	157	101323	46.71	ug/L	92
114) 1,2,4-Tcbenzene	13.584	180	520653	46.70	ug/L	98
115) Hexachlorobt	13.719	225	235109	48.00	ug/L	98
116) Naphthalen	13.773	128	1543531	46.16	ug/L	96
117) 1,2,3-Tclbenzene	13.962	180	514270	44.87	ug/L	97

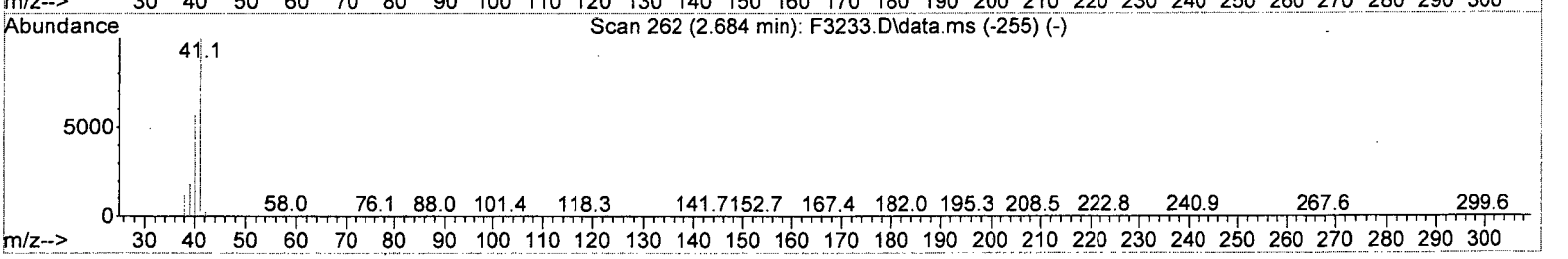
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:51:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5184.D\data.ms

(19) Acetonitrile

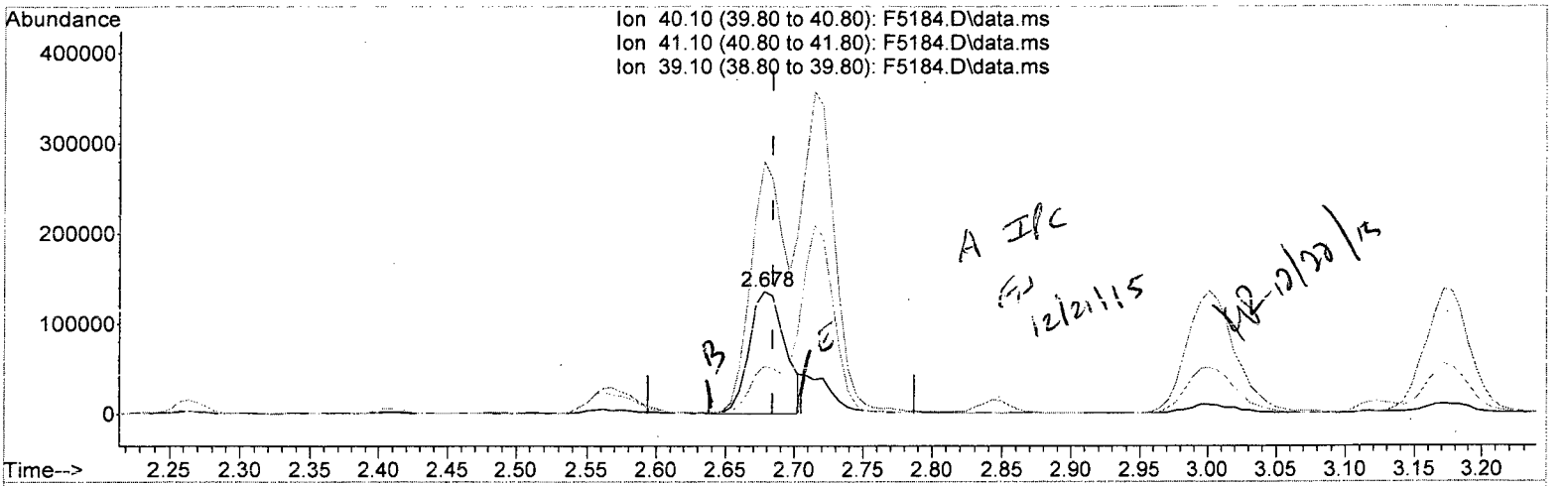
2.678min (-0.006) 221.38 ug/L

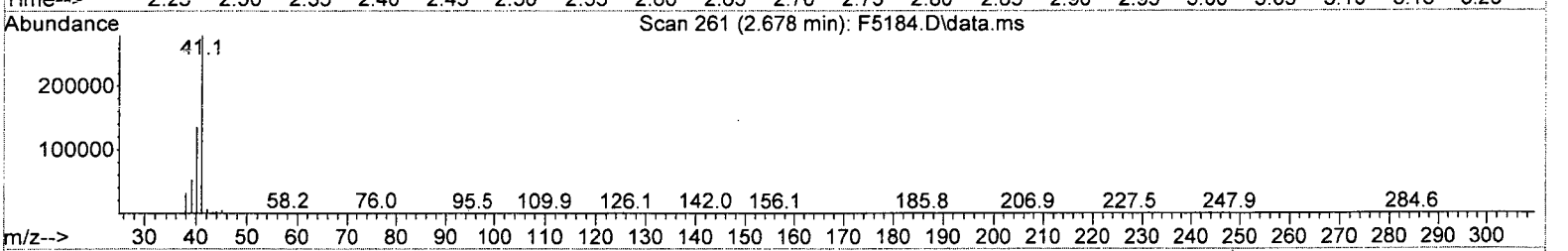
response 310255

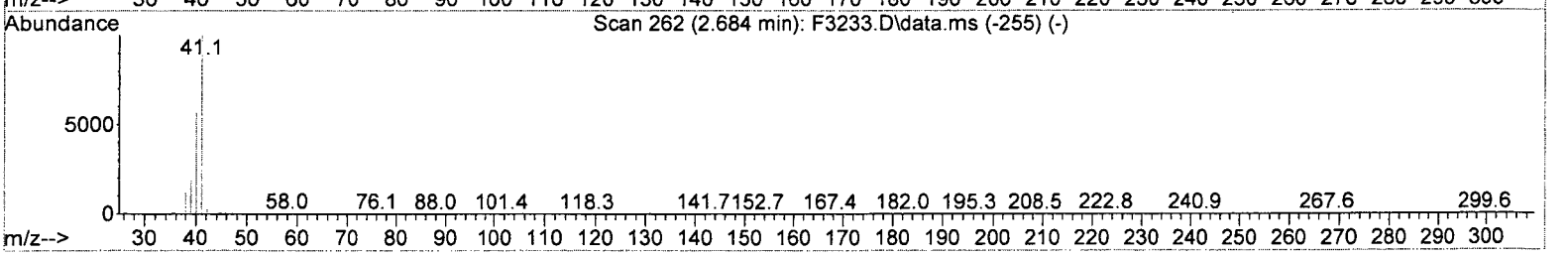
Ion	Exp%	Act%
40.10	100	100
41.10	176.40	205.95#
39.10	34.00	38.71
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 21 11:51:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
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TIC: F5184.D\data.ms

(19) Acetonitrile

2.678min (-0.006) 177.60 ug/L m

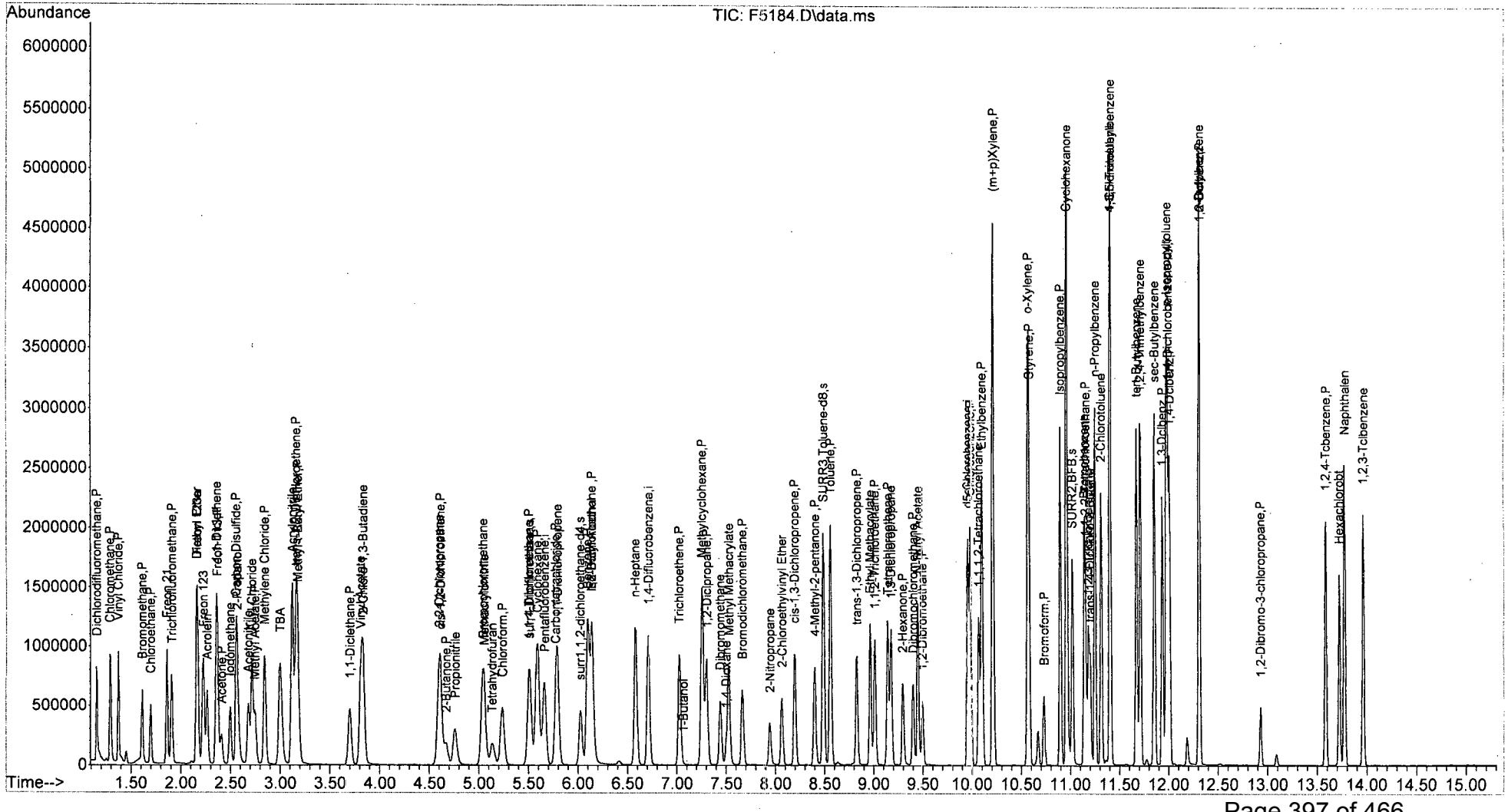
response 248895

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	205.95#
39.10	34.00	38.71
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5184.D
Acq On : 21 Dec 2015 11:36 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
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Quant Time: Dec 21 11:53:55 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/22/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122215\F5220.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477582
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	47.9	0.6335	0.6070	-4.2	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	52.4	1.011	1.059	4.7	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	48.7	0.3206	0.3121	-2.6	NA	± 20 %	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	45.3	0.4440	0.4022	-9.4	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	50.7	0.9320	0.9459	1.5	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	51.2	0.3976	0.4069	2.3	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	47.6	1.247	1.186	-4.9	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	48.9	1.213	1.186	-2.2	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	50.6	NA	NA	NA	1.2	± 20 %	Quadratic
1,2-Dibromoethane	50.0	56.3	0.3490	0.3933	12.7	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	49.1	1.574	1.547	-1.7	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	48.3	0.5662	0.5469	-3.4	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	49.0	0.3929	0.3851	-2.0	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	48.9	1.589	1.552	-2.3	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	49.4	1.612	1.593	-1.2	NA	± 20 %	Average RF
1,4-Dioxane	1000	850	0.008522	0.007244	-15.0	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	47.4	0.6403	0.6070	-5.2	NA	± 20 %	Average RF
2-Hexanone	50.0	43.8	0.7105	0.6220	-12.5	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	43.7	0.8337	0.7287	-12.6	NA	± 20 %	Average RF
Acetone	50.0	48.8	0.4508	0.4401	-2.4	NA	± 20 %	Average RF
Benzene	50.0	47.1	1.333	1.256	-5.8	NA	± 20 %	Average RF
Bromochloromethane	50.0	50.7	0.3397	0.3443	1.4	NA	± 20 %	Average RF
Bromodichloromethane	50.0	50.8	0.3922	0.3984	1.6	NA	± 20 %	Average RF
Bromoform	50.0	52.7	NA	NA	NA	5.3	± 20 %	Quadratic
Bromomethane	50.0	45.7	NA	NA	NA	-8.5	± 20 %	Quadratic
Carbon Disulfide	50.0	47.4	1.165	1.105	-5.1	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	48.5	0.1137	0.1102	-3.1	NA	± 20 %	Average RF
Chlorobenzene	50.0	46.7	1.054	0.9835	-6.7	NA	± 20 %	Average RF
Chloroethane	50.0	50.9	0.4156	0.4230	1.8	NA	± 20 %	Average RF
Chloroform	50.0	49.1	0.8370	0.8224	-1.7	NA	± 20 %	Average RF
Chloromethane	50.0	48.7	1.205	1.174	-2.6	NA	± 20 %	Average RF
Cyclohexane	50.0	50.4	0.5312	0.5351	0.7	NA	± 20 %	Average RF
Dibromochloromethane	50.0	53.8	NA	NA	NA	7.5	± 20 %	Quadratic
Dichlorodifluoromethane (CFC 12)	50.0	47.4	0.7191	0.6811	-5.3	NA	± 20 %	Average RF
Dichloromethane	50.0	49.3	0.5197	0.5119	-1.5	NA	± 20 %	Average RF
Ethylbenzene	50.0	47.3	0.5326	0.5034	-5.5	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	45.6	1.763	1.609	-8.7	NA	± 20 %	Average RF
Methyl Acetate	50.0	50.8	0.9241	0.9385	1.6	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	48.7	1.623	1.582	-2.5	NA	± 20 %	Average RF
Methylcyclohexane	50.0	53.3	0.5964	0.6354	6.5	NA	± 20 %	Average RF
Styrene	50.0	47.5	1.163	1.105	-5.0	NA	± 20 %	Average RF

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/22/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122215\F5220.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477582
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	44.0	0.3091	0.2719	-12.0	NA	± 20 %	Average RF
Toluene	50.0	47.2	1.369	1.291	-5.7	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	47.1	0.3427	0.3228	-5.8	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	48.3	0.7168	0.6923	-3.4	NA	± 20 %	Average RF
Vinyl Chloride	50.0	49.3	0.8349	0.8226	-1.5	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	50.4	0.5060	0.5102	0.8	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	52.6	0.4736	0.4982	5.2	NA	± 20 %	Average RF
m,p-Xylenes	100	91.1	0.6810	0.6204	-8.9	NA	± 20 %	Average RF
o-Xylene	50.0	46.9	0.6755	0.6341	-6.1	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	48.9	0.4501	0.4404	-2.2	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	53.8	NA	NA	NA	7.6	± 20 %	Quadratic
4-Bromofluorobenzene	50.0	51.1	0.4549	0.4647	2.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	53.0	0.3067	0.3252	6.0	NA	± 20 %	Average RF
Toluene-d8	50.0	52.1	1.139	1.187	4.2	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FU 12/22/15

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	88	0.00	
2	P	Dichlorodifluoromethane	0.7191	0.6811	5.3	81	0.00	
3	P	Chloromethane	1.2047	1.1735	2.6	85	-0.01	
4	P	Vinyl Chloride	0.8349	0.8226	1.5	87	0.00	
5	P	Bromomethane	0.3944	0.3083	8.5 ~~21.8#~~	92	-0.01	
6	P	Chloroethane	0.4156	0.4230	-1.8	90	0.00	
7		Freon 21	0.9644	1.0407	-7.9	95	0.00	
8	P	Trichlorofluoromethane	0.7168	0.6923	3.4	83	-0.01	
9		Diethyl Ether	0.5802	0.6249	-7.7	94	-0.01	
10		Freon 123a	0.5968	0.6602	-10.6	100	-0.01	
11		Freon 123	0.6186	0.7001	-13.2	102	0.00	
12		Acrolein	0.1730	0.2128	-23.0#	106	0.00	NT
13		1,1-Diclethene	0.3976	0.4069	-2.3	91	-0.02	
14	P	Freon 113	0.4440	0.4022	9.4	85	0.00	
15	P	Acetone	0.4508	0.4401	2.4	88	0.00	
16		2-Propanol	0.0868	0.0827	4.5 ~~4.7~~	81	0.00	
17		Iodomethane	0.5913	0.5914	7.6 ~~0.0~~	77	0.00	
18	P	Carbon Disulfide	1.1651	1.1052	5.1	84	0.00	
19		Acetonitrile	0.1104	0.0993	10.1	79	0.00	
20		Allyl Chloride	0.2277	0.2035	10.6	79	0.00	
21	P	Methyl Acetate	0.9241	0.9385	-1.6	89	0.00	
22	P	Methylene Chloride	0.5197	0.5119	1.5	94	0.00	
23		TBA	0.1024	0.0964	7.6 ~~5.9~~	77	0.00	
24		Acrylonitrile	0.4218	0.4417	-4.7	88	0.00	
25	P	Methyl-t-Butyl Ether	1.6233	1.5819	2.6	84	0.00	
26	P	trans-1,2-Dichloroethene	0.4501	0.4404	2.2	90	0.00	
27	P	1,1-Diclethane	0.9320	0.9459	-1.5	91	0.00	
28		Vinyl Acetate	0.0998	0.1192	~~19.4~~	100	-0.01	
29		DIPE	~~2.6811~~	~~0.0173~~	~~99.4#~~	~~1#~~	~~0.04~~	
30		2-Chloro-1,3-Butadiene	1.1230	1.0470	6.8	82	0.00	
31		ETBE	~~1.7384~~	~~0.0008~~	~~100.0#~~	~~0#~~	~~0.00~~	
32		2,2-Dichloropropane	0.4900	0.5172	-5.6	95	0.00	
33	P	cis-1,2-Dichloroethene	0.5060	0.5102	-0.8	93	0.00	
34	P	2-Butanone	0.6403	0.6070	5.2	87	-0.04	
35		Propionitrile	0.1710	0.1751	-2.4	85	-0.02	
36		Bromochloromethane	0.3397	0.3443	-1.4	91	0.00	
37		Methacrylonitrile	0.3097	0.3075	0.7	86	-0.01	
38		Tetrahydrofuran	0.4155	0.3959	4.7	81	-0.02	
39	P	Chloroform	0.8370	0.8224	1.7	88	0.00	
40	P	1,1,1-Trichloroethane	0.6335	0.6070	4.2	83	0.00	
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	93	0.00	
42	P	Cyclohexane	0.5312	0.5351	-0.7	96	0.00	
43	s	surr4,Dibrflmethane	0.3067	0.3252	-6.0	98	0.00	
44	P	Carbontetrachloride	0.1137	0.1102	3.1	89	0.00	
45		1,1-Dichloropropene	0.4363	0.3920	10.2	86	0.00	
46	s	surr1,1,2-dichloroethane-d4	0.4125	0.4113	0.3	93	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
47	P	Benzene	1.3327	1.2555	5.8	89	0.00	
48	P	1,2-Dichloroethane	0.5662	0.5469	3.4	89	0.00	
49		Iso-Butyl Alcohol	0.0408	0.0395	5.0 ~~3.2~~	83	0.00	
50		TAME	~~0.9624~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-6.34#~~	
51		n-Heptane	0.7115	0.7065	0.7	95	-0.01	
52		1-Butanol	~~0.0185~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
53	P	Trichloroethene	0.3427	0.3228	5.8	86	0.00	
54	P	Methylcyclohexane	0.5964	0.6354	-6.5	103	0.00	
55	P	1,2-Diclpropane	0.3929	0.3851	2.0	93	0.00	
56		Dibromomethane	0.2139	0.2188	-2.3	92	0.00	
57		1,4-Dioxane	0.0085	0.0072	15.3	81	0.00	
58		Methyl Methacrylate	0.3085	0.3106	-0.7	93	0.00	
59	P	Bromodichloromethane	0.3922	0.3984	-1.6	92	0.00	
60		2-Nitropropane	0.0961	0.1227	-26.8 ~~-27.7#~~	119	0.00	NT
61		2-Chloroethylvinyl Ether	0.3080	0.2305	25.2#	69	0.00	NT
62	P	cis-1,3-Dichloropropene	0.4736	0.4982	-5.2	90	0.00	
63	P	4-Methyl-2-pentanone	0.8337	0.7287	12.6	84	0.00	
64	s	SURR3,Toluene-d8	1.1392	1.1869	-4.2	96	0.00	
65	P	Toluene	1.3690	1.2914	5.7	88	0.00	
66	P	trans-1,3-Dichloropropene	0.4071	0.4423	-7.6 ~~-8.6~~	94	0.00	
67		Ethyl Methacrylate	0.4863	0.5237	-4.0 ~~-7.7~~	91	0.00	
68	P	1,1,2-Trichloroethane	0.3206	0.3121	2.7	90	0.00	
69	s	SURR2,BFB	0.4549	0.4647	-2.2	97	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	92	0.00	
71	P	Tetrachloroethene	0.3091	0.2719	12.0	84	0.00	
72	P	2-Hexanone	0.7105	0.6220	12.5	81	0.00	
73		1,3-Dichloropropane	0.6250	0.6232	0.3	91	0.00	
74	P	Dibromochloromethane	0.3464	0.3745	-7.5 ~~-8.1~~	93	0.00	
75		N-Butyl Acetate	1.0956	1.2416	-0.9 ~~-13.3~~	95	0.00	
76	P	1,2-Dibromoethane	0.3490	0.3933	-12.7	94	0.00	
77		3-Chlorobenzotrifluoride	0.6000	0.5920	1.3	88	0.00	
78	P	Chlorobenzene	1.0539	0.9835	6.7	89	0.00	
79		4-Chlorobenzotrifluoride	0.5104	0.5252	-2.9	89	0.00	
80		1,1,1,2-Tetrachloroethane	0.3243	0.3540	-3.6 ~~-9.2~~	90	0.00	
81	P	Ethylbenzene	0.5326	0.5034	5.5	86	0.00	
82	P	(m+p)Xylene	0.6810	0.6204	8.9	84	0.00	
83	P	o-Xylene	0.6755	0.6341	6.1	85	0.00	
84	P	Styrene	1.1631	1.1050	5.0	87	0.00	
85	P	Bromoform	0.2540	0.2694	-5.3 ~~-6.1~~	94	0.00	
86		2-Chlorobenzotrifluoride	0.5946	0.5676	4.5	86	0.00	
87	P	Isopropylbenzene	1.7632	1.6094	8.7	84	0.00	
88		Cyclohexanone	0.1155	0.1281	-10.9	93	0.00	
89		trans-1,4-Dichloro-2-Butene	0.1996	0.2200	-7.8 ~~-10.2~~	97	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	89	0.00	
91	P	1,1,2,2-Tetrachloroethane	1.0114	1.0591	-4.7	88	0.00	

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8385	0.8305	1.0	88	0.00
93		1,2,3-Trichloropropane	0.3280	0.3131	4.5	86	0.00
94		n-Propylbenzene	3.7407	3.7196	0.6	86	0.00
95		2-Chlorotoluene	2.1667	2.1029	2.9	84	0.00
96		3-Chlorotoluene	2.2816	2.2822	-0.0	85	0.00
97		4-Chlorotoluene	2.5783	2.5405	1.5	88	0.00
98		1,3,5-Trimethylbenzene	2.6149	2.5445	2.7	83	0.00
99		tert-Butylbenzene	2.3823	2.1987	7.7	80	0.00
100		1,2,4-Trimethylbenzene	2.7046	2.6853	0.7	87	0.00
101		3,4-Dichlorobenzotrifluorid	0.8293	0.8716	-5.1	93	0.00
102		sec-Butylbenzene	3.4150	3.3214	2.7	84	0.00
103		p-Isopropyltoluene	2.7754	2.7248	1.8	84	0.00
104	P	1,3-Dclbenz	1.5885	1.5524	2.3	87	0.00
105	P	1,4-Dclbenz	1.6120	1.5928	1.2	88	0.00
106		2,4-Dichlorobenzotrifluorid	0.7466	0.8013	-7.3	92	0.00
107		2,5-Dichlorobenzotrifluorid	0.8551	0.8935	-4.5	89	0.00
108		n-Butylbenzene	2.5844	2.6565	-2.8	89	0.00
109	P	1,2-Dclbenz	1.5741	1.5467	1.7	87	0.00
110	P	1,2-Dibromo-3-chloropropane	0.1926	0.2420	-1.2 ~~-25.6#~~	86	0.00
111		Trielution Dichlorotoluene	1.4489	1.4775	-2.0	83	0.00
112		1,3,5-Trichlorobenzene	1.2685	1.2844	-1.3	85	0.00
113		Coelution Dichlorotoluene	1.6220	1.6391	-1.1	81	0.00
114	P	1,2,4-Tcbenzene	1.2131	1.1858	2.3	83	0.00
115		Hexachlorobt	0.5329	0.4978	6.6	85	0.00
116		Naphthalen	3.6385	3.5619	2.1	78	0.00
117		1,2,3-Tclbenzene	1.2470	1.1862	4.9	80	0.00
118		2,4,5-Trichlorotoluene	0.9419	0.9384	0.4	81	0.00
119		2,3,6-Trichlorotoluene	0.8566	0.8255	3.6	80	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FV 12/22/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	605694	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	917751	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	808394	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	426120	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	298427	53.01	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.02%			
46) surr1,1,2-dichloroetha...	6.025	65	377479	49.85	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.70%			
64) SURR3,Toluene-d8	8.488	98	1089296	52.09	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.18%			
69) SURR2,BFB	11.018	95	426467	51.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 102.14%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	412529	47.36	ug/L	98
3) Chloromethane	1.288	50	710782	48.71	ug/L	99
4) Vinyl Chloride	1.373	62	498260	49.26	ug/L	98
5) Bromomethane	1.611	94	186733	45.74	ug/L	96
6) Chloroethane	1.696	64	256232	50.90	ug/L	99
7) Freon 21	1.861	67	630355	53.96	ug/L	100
8) Trichlorofluoromethane	1.904	101	419316	48.29	ug/L	100
9) Diethyl Ether	2.160	59	378528	53.85	ug/L	96
10) Freon 123a	2.166	67	399895	55.31	ug/L	97
11) Freon 123	2.227	83	424060	56.59	ug/L	95
12) Acrolein	2.263	56	644489	307.60	ug/L	96
13) 1,1-Diclethene	2.355	96	246478	51.17	ug/L	98
14) Freon 113	2.367	101	243623	45.30	ug/L	93
15) Acetone	2.410	43	266591	48.81	ug/L	96
16) 2-Propanol	2.568	45	1001349	954.63	ug/L	100
17) Iodomethane	2.495	142	358211	46.20	ug/L	96
18) Carbon Disulfide	2.562	76	669403	47.43	ug/L	99
19) Acetonitrile	2.678	40	300667m	224.91	ug/L	
20) Allyl Chloride	2.714	76	123277	44.70	ug/L #	83
21) Methyl Acetate	2.751	43	568434	50.78	ug/L	99
22) Methylene Chloride	2.849	84	310066	49.25	ug/L	93
23) TBA	3.001	59	1168353	923.77	ug/L	92
24) Acrylonitrile	3.123	53	1337577	261.78	ug/L	94
25) Methyl-t-Butyl Ether	3.178	73	958140	48.73	ug/L	98
26) trans-1,2-Dichloroethene	3.160	96	266748	48.92	ug/L	93
27) 1,1-Diclethane	3.702	63	572921	50.74	ug/L	97
28) Vinyl Acetate	3.812	86	72178	55.25	ug/L #	74
29) DIPE	3.812	45	10466	0.32	ug/L #	1
30) 2-Chloro-1,3-Butadiene	3.836	53	634158	46.61	ug/L	98
32) 2,2-Dichloropropane	4.604	77	313295	52.79	ug/L	95
33) cis-1,2-Dichloroethene	4.617	96	309011	50.41	ug/L	93
34) 2-Butanone	4.671	43	367664	47.40	ug/L	100
35) Propionitrile	4.757	54	530136	255.96	ug/L	97
36) Bromochloromethane	5.043	130	208528	50.68	ug/L	92

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) Methacrylonitrile	5.049	67	186257	49.64	ug/L		90
38) Tetrahydrofuran	5.135	42	239796	47.64	ug/L		92
39) Chloroform	5.238	83	498118	49.13	ug/L		98
40) 1,1,1-Trichloroethane	5.513	97	367676	47.91	ug/L		98
42) Cyclohexane	5.592	41	491073	50.37	ug/L		94
44) Carbontetrachloride	5.775	121	101114	48.46	ug/L		100
45) 1,1-Dichloropropene	5.793	75	359743	44.92	ug/L		98
47) Benzene	6.098	78	1152272	47.10	ug/L		97
48) 1,2-Dichloroethane	6.141	62	501957	48.30	ug/L		96
49) Iso-Butyl Alcohol	6.141	43	725173	950.33	ug/L		97
51) n-Heptane	6.580	43	648426	49.65	ug/L		99
52) 1-Butanol	7.079	56	1777	29.57	ug/L	#	73
53) Trichloroethene	7.025	130	296245	47.09	ug/L		97
54) Methylcyclohexane	7.262	55	583128	53.27	ug/L		97
55) 1,2-Diclpropane	7.299	63	353437	49.01	ug/L		97
56) Dibromomethane	7.445	93	200778	51.13	ug/L		93
57) 1,4-Dioxane	7.506	88	132958	850.04	ug/L		97
58) Methyl Methacrylate	7.531	69	285044	50.33	ug/L	#	86
59) Bromodichloromethane	7.665	83	365590	50.78	ug/L		97
60) 2-Nitropropane	7.945	41	225140	126.80	ug/L		100
61) 2-Chloroethylvinyl Ether	8.067	63	211531	37.41	ug/L		99
62) cis-1,3-Dichloropropene	8.201	75	457255	52.61	ug/L		96
63) 4-Methyl-2-pentanone	8.402	43	668724	43.70	ug/L		99
65) Toluene	8.561	91	1185205	47.17	ug/L		100
66) trans-1,3-Dichloropropene	8.829	75	405903	53.81	ug/L		97
67) Ethyl Methacrylate	8.963	69	480602	52.00	ug/L		94
68) 1,1,2-Trichloroethane	9.012	97	286437	48.68	ug/L		93
71) Tetrachloroethene	9.146	164	219825	43.98	ug/L		96
72) 2-Hexanone	9.299	43	502852	43.77	ug/L		98
73) 1,3-Dichloropropane	9.177	76	503820	49.86	ug/L		97
74) Dibromochloromethane	9.402	129	302742	53.75	ug/L		98
75) N-Butyl Acetate	9.451	43	1003691	50.44	ug/L		98
76) 1,2-Dibromoethane	9.494	107	317924	56.34	ug/L		100
77) 3-Chlorobenzotrifluoride	10.000	180	478598	49.34	ug/L		97
78) Chlorobenzene	9.981	112	795067	46.66	ug/L		97
79) 4-Chlorobenzotrifluoride	10.054	180	424536	51.44	ug/L		97
80) 1,1,1,2-Tetrachloroethane	10.067	131	286194	51.78	ug/L		98
81) Ethylbenzene	10.103	106	406926	47.26	ug/L		97
82) (m+p)Xylene	10.213	106	1003121	91.11	ug/L		95
83) o-Xylene	10.567	106	512641	46.94	ug/L		97
84) Styrene	10.579	104	893280	47.50	ug/L		97
85) Bromoform	10.731	173	217811	52.67	ug/L		95
86) 2-Chlorobenzotrifluoride	10.810	180	458854	47.73	ug/L		95
87) Isopropylbenzene	10.896	105	1301032	45.64	ug/L		100
88) Cyclohexanone	10.957	55	2070385	1108.83	ug/L		92
89) trans-1,4-Dichloro-2-B...	11.201	53	177857	53.91	ug/L		97
91) 1,1,2,2-Tetrachloroethane	11.152	83	451292	52.36	ug/L		93
92) Bromobenzene	11.140	156	353912	49.52	ug/L		97
93) 1,2,3-Trichloropropane	11.182	110	133400	47.73	ug/L		96
94) n-Propylbenzene	11.249	91	1585003	49.72	ug/L		99
95) 2-Chlorotoluene	11.310	91	896083	48.53	ug/L		99

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

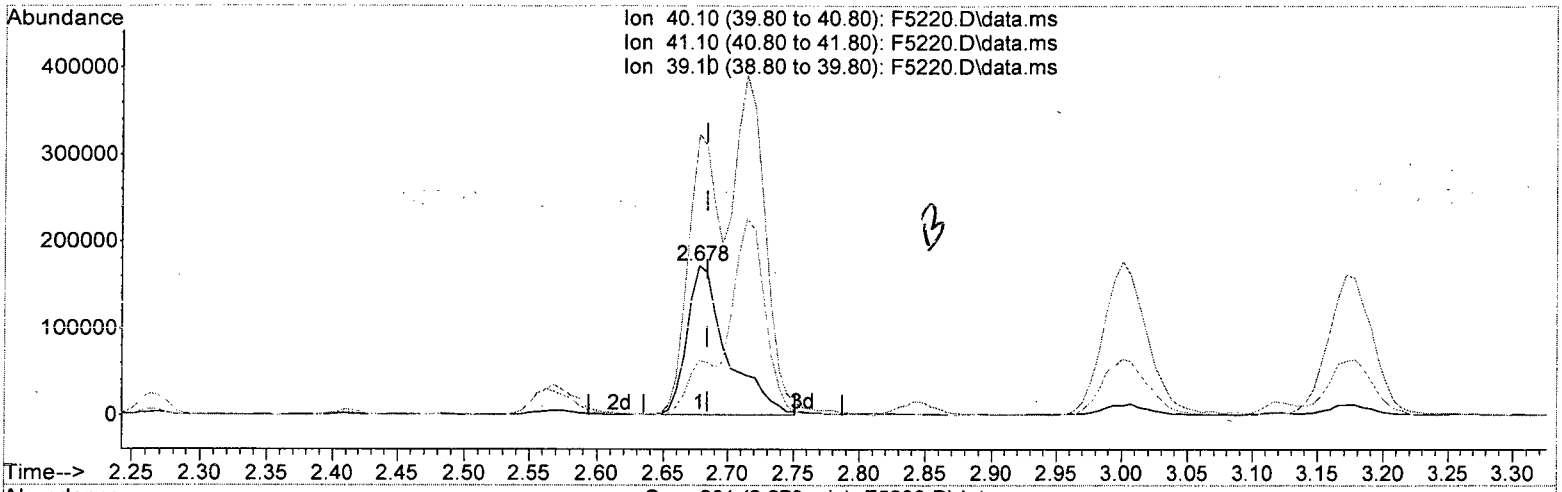
Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

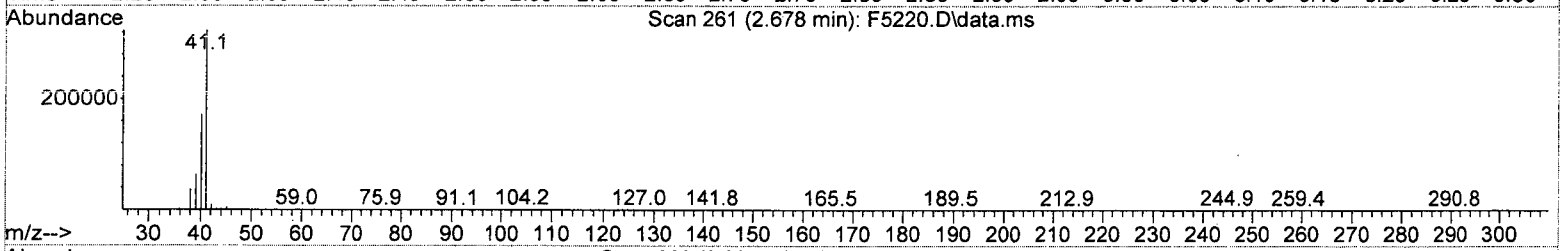
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96)	3-Chlorotoluene	11.365	91	972492	50.01	ug/L	98
97)	4-Chlorotoluene	11.402	91	1082562	49.27	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	1084278	48.66	ug/L	99
99)	tert-Butylbenzene	11.670	119	936892	46.15	ug/L	97
100)	1,2,4-Trimethylbenzene	11.713	105	1144243	49.64	ug/L	100
101)	3,4-Dichlorobenzotrifl...	11.774	214	371426	52.55	ug/L	96
102)	sec-Butylbenzene	11.853	105	1415323	48.63	ug/L	97
103)	p-Isopropyltoluene	11.975	119	1161094	49.09	ug/L	99
104)	1,3-Dclbenz	11.932	146	661510	48.86	ug/L	98
105)	1,4-Dclbenz	12.005	146	678712	49.40	ug/L	99
106)	2,4-Dichlorobenzotrifl...	12.060	214	341435	53.66	ug/L	94
107)	2,5-Dichlorobenzotrifl...	12.103	214	380742	52.24	ug/L	95
108)	n-Butylbenzene	12.304	91	1132000	51.39	ug/L	98
109)	1,2-Dclbenz	12.310	146	659066	49.13	ug/L	97
110)	1,2-Dibromo-3-chloropr...	12.926	157	103142	50.61	ug/L	88
111)	Trielution Dichlorotol...	13.048	125	1888795	152.96	ug/L	99
112)	1,3,5-Trichlorobenzene	13.103	180	547314	50.63	ug/L	99
113)	Coelution Dichlorotoluene	13.377	125	1396871	101.05	ug/L	98
114)	1,2,4-Tcbenzene	13.584	180	505307	48.88	ug/L	100
115)	Hexachlorobt	13.718	225	212106	46.70	ug/L	96
116)	Naphthalen	13.773	128	1517799	48.95	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	505466	47.56	ug/L	98
118)	2,4,5-Trichlorotoluene	14.548	159	399887	49.82	ug/L	99
119)	2,3,6-Trichlorotoluene	14.633	159	351757	48.18	ug/L	95

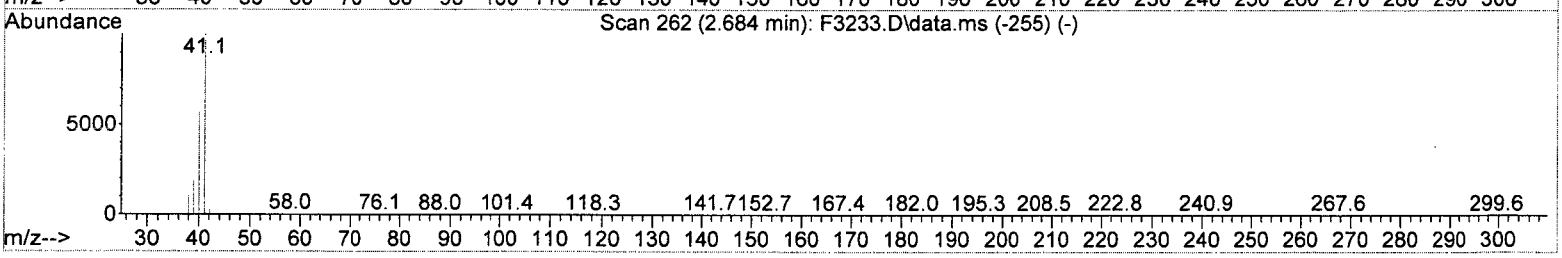
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:44:06 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5220.D\data.ms

(19) Acetonitrile

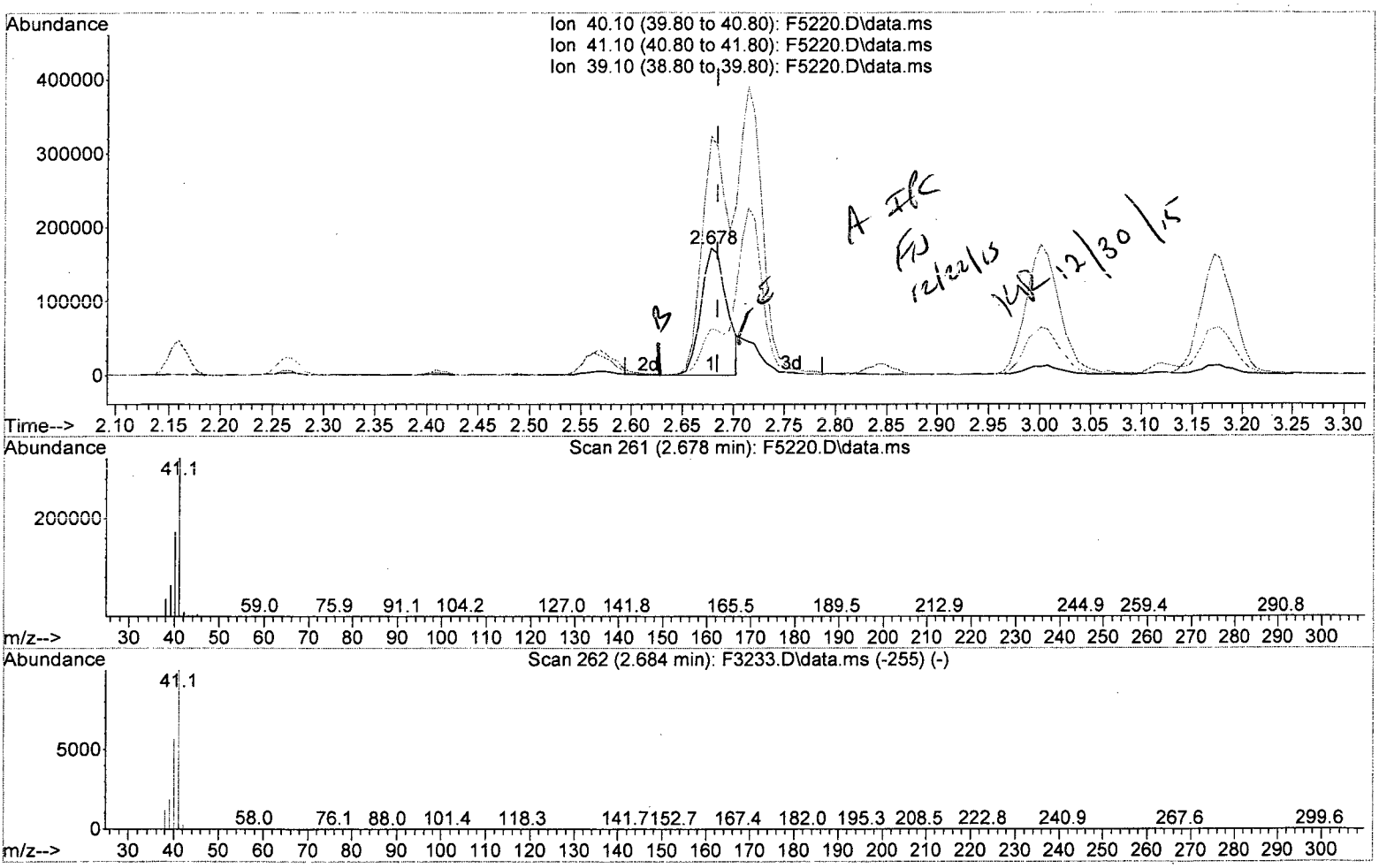
2.678min (-0.006) 276.25 ug/L

response 369301

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	188.11
39.10	34.00	36.64
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:44:06 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



TIC: F5220.D\data.ms

(19) Acetonitrile

2.678min (-0.006) 224.91 ug/L m

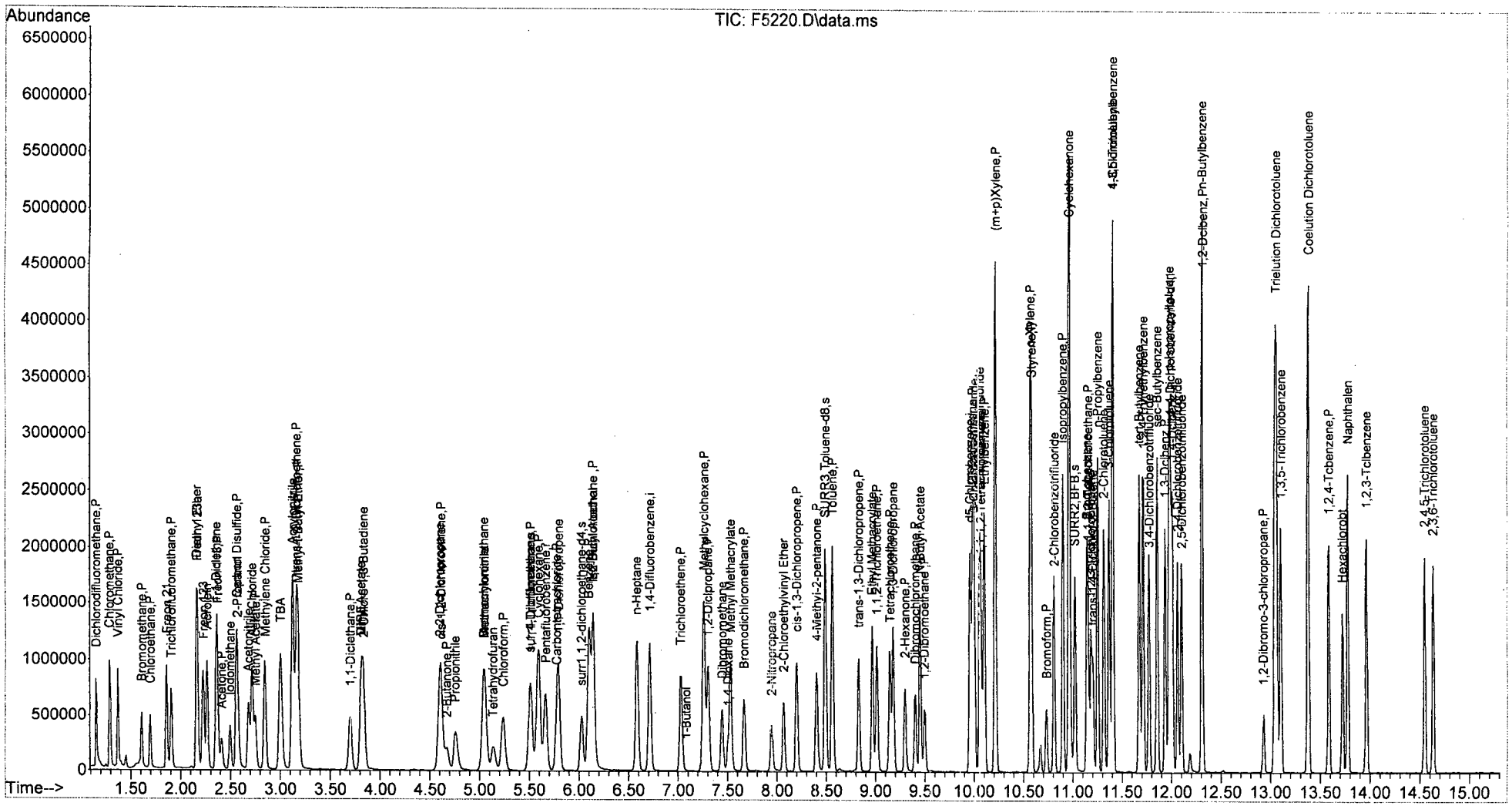
response 300667

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	188.11
39.10	34.00	36.64
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5220.D
Acq On : 22 Dec 2015 3:29 pm
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 22 15:46:05 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/23/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122315\F5251.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477634
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
1,1,1-Trichloroethane (TCA)	50.0	54.3	0.6335	0.6875	8.5	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	52.0	1.011	1.051	3.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	49.7	0.3206	0.3188	-0.5	NA	± 20 %	Average RF
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.6	0.4440	0.4671	5.2	NA	± 20 %	Average RF
1,1-Dichloroethane (1,1-DCA)	50.0	55.1	0.9320	1.027	10.1	NA	± 20 %	Average RF
1,1-Dichloroethene (1,1-DCE)	50.0	58.0	0.3976	0.4611	16.0	NA	± 20 %	Average RF
1,2,3-Trichlorobenzene	50.0	49.0	1.247	1.221	-2.1	NA	± 20 %	Average RF
1,2,4-Trichlorobenzene	50.0	50.7	1.213	1.230	1.4	NA	± 20 %	Average RF
1,2-Dibromo-3-chloropropane (DBCP)	50.0	49.4	NA	NA	NA	-1.3	± 20 %	Quadratic
1,2-Dibromoethane	50.0	56.9	0.3490	0.3969	13.7	NA	± 20 %	Average RF
1,2-Dichlorobenzene	50.0	52.0	1.574	1.637	4.0	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	50.0	0.5662	0.5660	0.0	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	52.2	0.3929	0.4100	4.4	NA	± 20 %	Average RF
1,3-Dichlorobenzene	50.0	51.9	1.589	1.647	3.7	NA	± 20 %	Average RF
1,4-Dichlorobenzene	50.0	52.5	1.612	1.693	5.0	NA	± 20 %	Average RF
1,4-Dioxane	1000	788	0.008522	0.006717	-21.2 *	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	49.7	0.6403	0.6366	-0.6	NA	± 20 %	Average RF
2-Hexanone	50.0	45.4	0.7105	0.6446	-9.3	NA	± 20 %	Average RF
4-Methyl-2-pentanone	50.0	44.6	0.8337	0.7428	-10.9	NA	± 20 %	Average RF
Acetone	50.0	49.1	0.4508	0.4429	-1.8	NA	± 20 %	Average RF
Benzene	50.0	51.0	1.333	1.360	2.1	NA	± 20 %	Average RF
Bromochloromethane	50.0	52.0	0.3397	0.3530	3.9	NA	± 20 %	Average RF
Bromodichloromethane	50.0	52.2	0.3922	0.4095	4.4	NA	± 20 %	Average RF
Bromoform	50.0	51.5	NA	NA	NA	2.9	± 20 %	Quadratic
Bromomethane	50.0	49.8	NA	NA	NA	-0.4	± 20 %	Quadratic
Carbon Disulfide	50.0	58.3	1.165	1.359	16.6	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	53.2	0.1137	0.1210	6.4	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.4	1.054	1.063	0.9	NA	± 20 %	Average RF
Chloroethane	50.0	58.4	0.4156	0.4853	16.8	NA	± 20 %	Average RF
Chloroform	50.0	53.1	0.8370	0.8894	6.3	NA	± 20 %	Average RF
Chloromethane	50.0	55.8	1.205	1.344	11.6	NA	± 20 %	Average RF
Cyclohexane	50.0	52.6	0.5312	0.5593	5.3	NA	± 20 %	Average RF
Dibromochloromethane	50.0	54.4	NA	NA	NA	8.8	± 20 %	Quadratic
Dichlorodifluoromethane (CFC 12)	50.0	56.2	0.7191	0.8085	12.4	NA	± 20 %	Average RF
Dichloromethane	50.0	51.0	0.5197	0.5305	2.1	NA	± 20 %	Average RF
Ethylbenzene	50.0	53.4	0.5326	0.5691	6.9	NA	± 20 %	Average RF
Isopropylbenzene (Cumene)	50.0	52.1	1.763	1.838	4.3	NA	± 20 %	Average RF
Methyl Acetate	50.0	52.0	0.9241	0.9616	4.1	NA	± 20 %	Average RF
Methyl tert-Butyl Ether	50.0	48.5	1.623	1.574	-3.1	NA	± 20 %	Average RF
Methylcyclohexane	50.0	55.8	0.5964	0.6653	11.5	NA	± 20 %	Average RF
Styrene	50.0	50.9	1.163	1.184	1.8	NA	± 20 %	Average RF

Client: Labella Associates, PC
Project: Roblin/Alumax Wells/2160148

Service Request: R1510962
Date Analyzed: 12/23/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

File ID: I:\ACQUDATA\msvoa10\data\122315\F5251.D\

Calibration Date: 10/19/15
Calibration ID: RC1500107
Analysis Lot: 477634
Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Tetrachloroethene (PCE)	50.0	50.6	0.3091	0.3131	1.3	NA	± 20 %	Average RF
Toluene	50.0	51.6	1.369	1.414	3.3	NA	± 20 %	Average RF
Trichloroethene (TCE)	50.0	51.4	0.3427	0.3523	2.8	NA	± 20 %	Average RF
Trichlorofluoromethane (CFC 11)	50.0	56.5	0.7168	0.8099	13.0	NA	± 20 %	Average RF
Vinyl Chloride	50.0	55.8	0.8349	0.9318	11.6	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	52.9	0.5060	0.5355	5.8	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	54.3	0.4736	0.5141	8.6	NA	± 20 %	Average RF
m,p-Xylenes	100	104	0.6810	0.7058	3.7	NA	± 20 %	Average RF
o-Xylene	50.0	51.8	0.6755	0.6996	3.6	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	53.7	0.4501	0.4832	7.3	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	52.7	NA	NA	NA	5.3	± 20 %	Quadratic
4-Bromofluorobenzene	50.0	52.4	0.4549	0.4765	4.7	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	53.5	0.3067	0.3279	6.9	NA	± 20 %	Average RF
Toluene-d8	50.0	53.1	1.139	1.209	6.1	NA	± 20 %	Average RF

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	i	Pentafluorobenzene	1.0000	1.0000	0.0	92	0.00
2	P	Dichlorodifluoromethane	0.7191	0.8085	-12.4	99	0.00
3	P	Chloromethane	1.2047	1.3444	-11.6	101	-0.01
4	P	Vinyl Chloride	0.8349	0.9318	-11.6	103	0.00
5	P	Bromomethane	0.3944	0.3297	0.4 ~~16.4~~	102	-0.01
6	P	Chloroethane	0.4156	0.4853	-16.8	107	0.00
7		Freon 21	0.9644	1.0754	-11.5	102	0.00
8	P	Trichlorofluoromethane	0.7168	0.8099	-13.0	101	0.00
9		Diethyl Ether	0.5802	0.6143	-5.9	96	-0.01
10		Freon 123a	0.5968	0.6543	-9.6	103	-0.01
11		Freon 123	0.6186	0.7356	-18.9	111	0.00
12		Acrolein	0.1730	0.2121	-22.6#	110	0.00 NT
13		1,1-Diclethene	0.3976	0.4611	-16.0	107	-0.01
14	P	Freon 113	0.4440	0.4671	-5.2	102	0.00
15	P	Acetone	0.4508	0.4429	1.8	91	0.00
16		2-Propanol	0.0868	0.0838	3.4 ~~3.5~~	85	0.00
17		Iodomethane	0.5913	0.6157	4.2 ~~4.1~~	83	0.00
18	P	Carbon Disulfide	1.1651	1.3587	-16.6	108	0.00
19		Acetonitrile	0.1104	0.1060	4.0	87	0.00
20		Allyl Chloride	0.2277	0.2306	-1.3	92	0.00
21	P	Methyl Acetate	0.9241	0.9616	-4.1	94	-0.01
22	P	Methylene Chloride	0.5197	0.5305	-2.1	101	0.00
23		TBA	0.1024	0.0929	10.6 ~~9.3~~	77	0.00
24		Acrylonitrile	0.4218	0.4346	-3.0	90	0.00
25	P	Methyl-t-Butyl Ether	1.6233	1.5736	3.1	87	0.00
26	P	trans-1,2-Dichloroethene	0.4501	0.4832	-7.4	102	0.00
27	P	1,1-Diclethane	0.9320	1.0266	-10.2	103	0.00
28		Vinyl Acetate	0.0998	0.1121	-4.4 ~~-12.3~~	98	-0.01
29		DIPE	~~2.6811~~	~~0.0006~~	~~100.0#~~	~~0#~~	~~0.03~~
30		2-Chloro-1,3-Butadiene	1.1230	1.3228	-17.8	108	0.00
31		ETBE	~~1.7384~~	~~0.0005~~	~~100.0#~~	~~0#~~	~~0.03~~
32		2,2-Dichloropropane	0.4900	0.5775	-17.9	110	0.00
33	P	cis-1,2-Dichloroethene	0.5060	0.5355	-5.8	101	0.00
34	P	2-Butanone	0.6403	0.6366	0.6	95	-0.04
35		Propionitrile	0.1710	0.1725	-0.9	87	-0.02
36		Bromochloromethane	0.3397	0.3530	-3.9	97	0.00
37		Methacrylonitrile	0.3097	0.2999	3.2	87	-0.01
38		Tetrahydrofuran	0.4155	0.3556	14.4	76	-0.02
39	P	Chloroform	0.8370	0.8894	-6.3	99	0.00
40	P	1,1,1-Trichloroethane	0.6335	0.6875	-8.5	98	0.00
41	i	1,4-Difluorobenzene	1.0000	1.0000	0.0	97	0.00
42	P	Cyclohexane	0.5312	0.5593	-5.3	104	0.00
43	s	surr4,Dibrflmethane	0.3067	0.3279	-6.9	103	0.00
44	P	Carbontetrachloride	0.1137	0.1210	-6.4	101	0.00
45		1,1-Dichloropropene	0.4363	0.4590	-5.2	105	0.00
46	s	surr1,1,2-dichloroethane-d4	0.4125	0.4285	-3.9	100	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FV 12/26/15

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)	
47	P	Benzene	1.3327	1.3601	-2.1	100	0.00	
48	P	1,2-Dichloroethane	0.5662	0.5660	0.0	95	0.00	
49		Iso-Butyl Alcohol	0.0408	0.0385	7.0 ~~5.6~~	84	0.00	
50		TAME	~~0.9624~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~-6.34#~~	
51		n-Heptane	0.7115	0.8402	-18.1	117	-0.01	
52		1-Butanol	~~0.0185~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~0.00~~	
53	P	Trichloroethene	0.3427	0.3523	-2.8	97	0.00	
54	P	Methylcyclohexane	0.5964	0.6653	-11.6	111	0.00	
55	P	1,2-Diclpropane	0.3929	0.4100	-4.4	103	0.00	
56		Dibromomethane	0.2139	0.2243	-4.9	98	0.00	
57		1,4-Dioxane	0.0085	0.0067	21.2#	77	0.00	(1)
58		Methyl Methacrylate	0.3085	0.2985	3.2	92	0.00	
59	P	Bromodichloromethane	0.3922	0.4095	-4.4	98	0.00	
60		2-Nitropropane	0.0961	0.1111	-16.9 ~~-15.6~~	112	0.00	
61		2-Chloroethylvinyl Ether	0.3080	0.2295	25.5#	71	0.00	(2)
62	P	cis-1,3-Dichloropropene	0.4736	0.5141	-8.6	96	0.00	
63	P	4-Methyl-2-pentanone	0.8337	0.7428	10.9	89	0.00	
64	s	SURR3,Toluene-d8	1.1392	1.2088	-6.1	101	0.00	
65	P	Toluene	1.3690	1.4137	-3.3	99	0.00	
66	P	trans-1,3-Dichloropropene	0.4071	0.4318	-5.3 ~~-6.1~~	95	0.00	
67		Ethyl Methacrylate	0.4863	0.5158	-2.6 ~~-6.1~~	92	0.00	
68	P	1,1,2-Trichloroethane	0.3206	0.3188	0.6	95	0.00	
69	s	SURR2,BFB	0.4549	0.4765	-4.7	103	0.00	
70	i	d5-Chlorobenzene	1.0000	1.0000	0.0	94	0.00	
71	P	Tetrachloroethene	0.3091	0.3131	-1.3	100	0.00	
72	P	2-Hexanone	0.7105	0.6446	9.3	86	0.00	
73		1,3-Dichloropropane	0.6250	0.6405	-2.5	96	0.00	
74	P	Dibromochloromethane	0.3464	0.3793	-8.8 ~~-9.5~~	97	0.00	
75		N-Butyl Acetate	1.0956	1.2585	-2.2 ~~-14.9~~	99	0.00	
76	P	1,2-Dibromoethane	0.3490	0.3969	-13.7	98	0.00	
77		3-Chlorobenzotrifluoride	0.6000	0.6029	-0.5	91	0.00	
78	P	Chlorobenzene	1.0539	1.0628	-0.8	98	0.00	
79		4-Chlorobenzotrifluoride	0.5104	0.5396	-5.7	94	0.00	
80		1,1,1,2-Tetrachloroethane	0.3243	0.3748	-9.3 ~~-15.6~~	98	0.00	
81	P	Ethylbenzene	0.5326	0.5691	-6.9	100	0.00	
82	P	(m+p)Xylene	0.6810	0.7058	-3.6	98	0.00	
83	P	o-Xylene	0.6755	0.6996	-3.6	97	0.00	
84	P	Styrene	1.1631	1.1837	-1.8	95	0.00	
85	P	Bromoform	0.2540	0.2624	-2.9 ~~-3.3~~	94	0.00	
86		2-Chlorobenzotrifluoride	0.5946	0.5824	2.1	91	0.00	
87	P	Isopropylbenzene	1.7632	1.8382	-4.3	98	0.00	
88		Cyclohexanone	0.1155	0.1271	-10.0	94	0.00	
89		trans-1,4-Dichloro-2-Butene	0.1996	0.2130	-6.7 ~~-6.7~~	96	0.00	
90	i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	92	0.00	
91	P	1,1,2,2-Tetrachloroethane	1.0114	1.0513	-3.9	91	0.00	

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
92		Bromobenzene	0.8385	0.8618	-2.8	94	0.00
93		1,2,3-Trichloropropane	0.3280	0.3051	7.0	87	0.00
94		n-Propylbenzene	3.7407	4.2381	-13.3	101	0.00
95		2-Chlorotoluene	2.1667	2.3453	-8.2	97	0.00
96		3-Chlorotoluene	2.2816	2.4309	6.5	93	0.00
97		4-Chlorotoluene	2.5783	2.7785	-7.8	99	0.00
98		1,3,5-Trimethylbenzene	2.6149	2.8849	-10.3	98	0.00
99		tert-Butylbenzene	2.3823	2.5273	-6.1	95	0.00
100		1,2,4-Trimethylbenzene	2.7046	2.9707	-9.8	99	0.00
101		3,4-Dichlorobenzotrifluorid	0.8293	0.9092	-9.6	101	0.00
102		sec-Butylbenzene	3.4150	3.8438	-12.6	101	0.00
103		p-Isopropyltoluene	2.7754	3.1033	-11.8	99	0.00
104	P	1,3-Dclbenz	1.5885	1.6474	-3.7	96	0.00
105	P	1,4-Dclbenz	1.6120	1.6930	-5.0	97	0.00
106		2,4-Dichlorobenzotrifluorid	0.7466	0.8180	-9.6	97	0.00
107		2,5-Dichlorobenzotrifluorid	0.8551	0.9231	-8.0	95	0.00
108		n-Butylbenzene	2.5844	3.0133	-16.6	105	0.00
109	P	1,2-Dclbenz	1.5741	1.6373	-4.0	95	0.00
110	P	1,2-Dibromo-3-chloropropane	0.1926	0.2350	1.3 ~~-22.0#~~	86	0.00
111		Trielution Dichlorotoluene	1.4489	1.5277	-5.4	89	0.00
112		1,3,5-Trichlorobenzene	1.2685	1.2843	-1.2	88	0.00
113		Coelution Dichlorotoluene	1.6220	1.6917	-4.3	87	0.00
114	P	1,2,4-Tcbenzene	1.2131	1.2300	-1.4	89	0.00
115		Hexachlorobt	0.5329	0.5468	-2.6	97	0.00
116		Naphthalen	3.6385	3.5669	2.0	81	0.00
117		1,2,3-Tclbenzene	1.2470	1.2212	2.1	85	0.00
118		2,4,5-Trichlorotoluene	0.9419	0.9230	2.0	83	0.00
119		2,3,6-Trichlorotoluene	0.8566	0.8204	4.2	82	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FL 12/26/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	628908	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	949834	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	828436	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	440292	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	311419	53.45	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.90%			
46) surr1,1,2-dichloroetha...	6.025	65	406973	51.93	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 103.86%			
64) SURR3,Toluene-d8	8.488	98	1148168	53.05	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.10%			
69) SURR2,BFB	11.018	95	452557	52.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 104.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	508453	56.22	ug/L	99
3) Chloromethane	1.288	50	845500	55.80	ug/L	98
4) Vinyl Chloride	1.373	62	586018	55.80	ug/L	96
5) Bromomethane	1.611	94	207347	49.78	ug/L	98
6) Chloroethane	1.696	64	305222	58.39	ug/L	97
7) Freon 21	1.861	67	676304	55.75	ug/L	97
8) Trichlorofluoromethane	1.910	101	509383	56.50	ug/L	98
9) Diethyl Ether	2.160	59	386320	52.93	ug/L	94
10) Freon 123a	2.166	67	411522	54.82	ug/L	97
11) Freon 123	2.227	83	462602	59.45	ug/L	97
12) Acrolein	2.263	56	666957	306.57	ug/L	99
13) 1,1-Diclethene	2.361	96	289984	57.98	ug/L	93
14) Freon 113	2.367	101	293770	52.60	ug/L	96
15) Acetone	2.410	43	278538	49.12	ug/L	99
16) 2-Propanol	2.562	45	1054143	965.92	ug/L	96
17) Iodomethane	2.495	142	387229	47.89	ug/L	100
18) Carbon Disulfide	2.556	76	854509	58.31	ug/L	100
19) Acetonitrile	2.678	40	333342m	240.15	ug/L	
20) Allyl Chloride	2.715	76	145048	50.65	ug/L #	92
21) Methyl Acetate	2.745	43	604752	52.03	ug/L	100
22) Methylene Chloride	2.843	84	333636	51.04	ug/L	98
23) TBA	3.001	59	1168089	893.91	ug/L	94
24) Acrylonitrile	3.123	53	1366562	257.58	ug/L	93
25) Methyl-t-Butyl Ether	3.172	73	989678	48.47	ug/L	98
26) trans-1,2-Dichloroethene	3.160	96	303883	53.67	ug/L #	85
27) 1,1-Diclethane	3.702	63	645645	55.07	ug/L	99
28) Vinyl Acetate	3.812	86	70515	52.20	ug/L #	67
30) 2-Chloro-1,3-Butadiene	3.836	53	831908	58.89	ug/L	100
32) 2,2-Dichloropropane	4.604	77	363225	58.94	ug/L	91
33) cis-1,2-Dichloroethene	4.611	96	336788	52.91	ug/L	98
34) 2-Butanone	4.672	43	400350	49.71	ug/L	98
35) Propionitrile	4.763	54	542336	252.19	ug/L	97
36) Bromochloromethane	5.043	130	222030	51.97	ug/L	96
37) Methacrylonitrile	5.049	67	188626	48.42	ug/L	88

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
38) Tetrahydrofuran	5.135	42	223669	42.80 ug/L	96
39) Chloroform	5.232	83	559342	53.13 ug/L	97
40) 1,1,1-Trichloroethane	5.513	97	432372	54.26 ug/L	99
42) Cyclohexane	5.592	41	531211	52.64 ug/L	93
44) Carbontetrachloride	5.781	121	114883	53.20 ug/L	95
45) 1,1-Dichloropropene	5.793	75	436009	52.61 ug/L	96
47) Benzene	6.104	78	1291853	51.03 ug/L	96
48) 1,2-Dichloroethane	6.141	62	537604	49.99 ug/L	99
49) Iso-Butyl Alcohol	6.141	43	731244	930.17 ug/L	99
51) n-Heptane	6.580	43	798006	59.04 ug/L	99
52) 1-Butanol	7.080	56	952	26.57 ug/L	99
53) Trichloroethene	7.031	130	334673	51.41 ug/L	94
54) Methylcyclohexane	7.256	55	631894	55.77 ug/L	98
55) 1,2-Diclpropane	7.305	63	389440	52.18 ug/L	99
56) Dibromomethane	7.439	93	213079	52.43 ug/L	85
57) 1,4-Dioxane	7.506	88	127599	788.23 ug/L	97
58) Methyl Methacrylate	7.531	69	283520	48.37 ug/L	98
59) Bromodichloromethane	7.665	83	388953	52.20 ug/L	95
60) 2-Nitropropane	7.945	41	211008	116.87 ug/L	86
61) 2-Chloroethylvinyl Ether	8.067	63	217962	37.25 ug/L	91
62) cis-1,3-Dichloropropene	8.201	75	488278	54.28 ug/L	99
63) 4-Methyl-2-pentanone	8.402	43	705547	44.55 ug/L	98
65) Toluene	8.561	91	1342743	51.63 ug/L	99
66) trans-1,3-Dichloropropene	8.829	75	410099	52.66 ug/L	97
67) Ethyl Methacrylate	8.963	69	489941	51.30 ug/L	97
68) 1,1,2-Trichloroethane	9.012	97	302819	49.73 ug/L	92
71) Tetrachloroethene	9.146	164	259361	50.64 ug/L	98
72) 2-Hexanone	9.299	43	534041	45.36 ug/L	100
73) 1,3-Dichloropropane	9.177	76	530605	51.24 ug/L	97
74) Dibromochloromethane	9.402	129	314206	54.38 ug/L	99
75) N-Butyl Acetate	9.451	43	1042603	51.11 ug/L	98
76) 1,2-Dibromoethane	9.494	107	328821	56.87 ug/L	99
77) 3-Chlorobenzotrifluoride	10.000	180	499449	50.24 ug/L	97
78) Chlorobenzene	9.981	112	880503	50.43 ug/L	94
79) 4-Chlorobenzotrifluoride	10.055	180	447002	52.85 ug/L	96
80) 1,1,1,2-Tetrachloroethane	10.067	131	310473	54.64 ug/L	96
81) Ethylbenzene	10.103	106	471470	53.43 ug/L	97
82) (m+p)Xylene	10.213	106	1169443	103.65 ug/L	95
83) o-Xylene	10.567	106	579533	51.78 ug/L	97
84) Styrene	10.579	104	980580	50.88 ug/L	98
85) Bromoform	10.731	173	217375	51.45 ug/L	95
86) 2-Chlorobenzotrifluoride	10.804	180	482522	48.97 ug/L	98
87) Isopropylbenzene	10.896	105	1522866	52.13 ug/L	99
88) Cyclohexanone	10.957	55	2105102	1100.15 ug/L	95
89) trans-1,4-Dichloro-2-B...	11.201	53	176475	52.34 ug/L	96
91) 1,1,2,2-Tetrachloroethane	11.152	83	462876	51.97 ug/L	93
92) Bromobenzene	11.140	156	379428	51.39 ug/L	93
93) 1,2,3-Trichloropropane	11.182	110	134334	46.52 ug/L	95
94) n-Propylbenzene	11.249	91	1865995	56.65 ug/L	98
95) 2-Chlorotoluene	11.310	91	1032600	54.12 ug/L	99
96) 3-Chlorotoluene	11.365	91	1070316	53.27 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

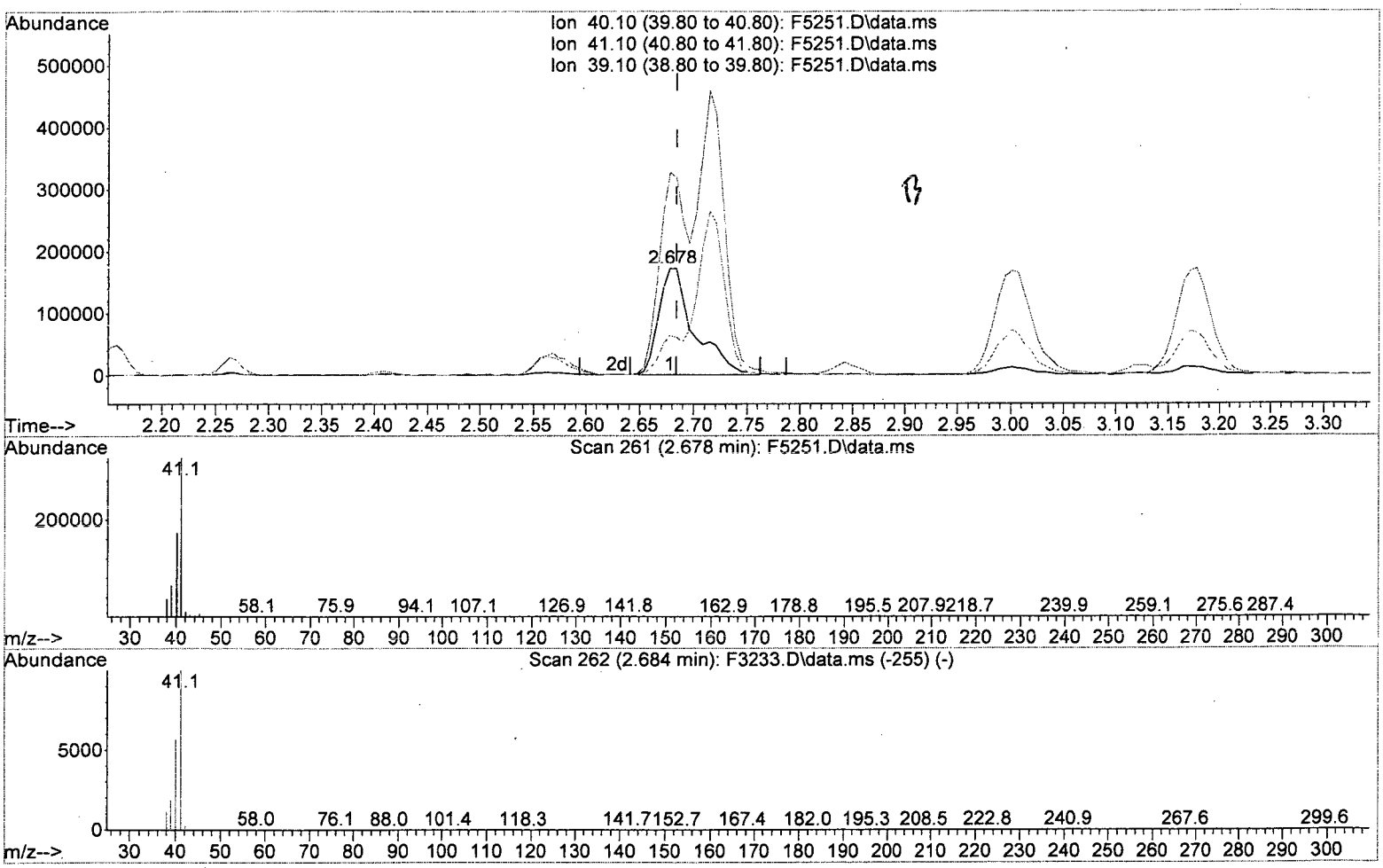
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	11.402	91	1223360	53.88	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	1270203	55.16	ug/L	99
99)	tert-Butylbenzene	11.670	119	1112749	53.04	ug/L	97
100)	1,2,4-Trimethylbenzene	11.707	105	1307974	54.92	ug/L	100
101)	3,4-Dichlorobenzotrifl...	11.768	214	400306	54.82	ug/L	97
102)	sec-Butylbenzene	11.853	105	1692375	56.28	ug/L	99
103)	p-Isopropyltoluene	11.975	119	1366354	55.91	ug/L	97
104)	1,3-Dclbenz	11.932	146	725325	51.85	ug/L	97
105)	1,4-Dclbenz	12.005	146	745423	52.51	ug/L	97
106)	2,4-Dichlorobenzotrifl...	12.060	214	360137	54.78	ug/L	94
107)	2,5-Dichlorobenzotrifl...	12.097	214	406444	53.98	ug/L	95
108)	n-Butylbenzene	12.304	91	1326745	58.30	ug/L	98
109)	1,2-Dclbenz	12.310	146	720910	52.01	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.926	157	103485	49.35	ug/L	90
111)	Trielution Dichlorotol...	13.042	125	2017940	158.16	ug/L	95
112)	1,3,5-Trichlorobenzene	13.103	180	565453	50.62	ug/L	97
113)	Coelution Dichlorotoluene	13.371	125	1489660	104.30	ug/L	95
114)	1,2,4-Tcbenzene	13.584	180	541560	50.70	ug/L	100
115)	Hexachlorobt	13.719	225	240749	51.30	ug/L	96
116)	Naphthalen	13.773	128	1570483	49.02	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	537701	48.97	ug/L	98
118)	2,4,5-Trichlorotoluene	14.548	159	406399	49.00	ug/L	97
119)	2,3,6-Trichlorotoluene	14.633	159	361200	47.88	ug/L	99

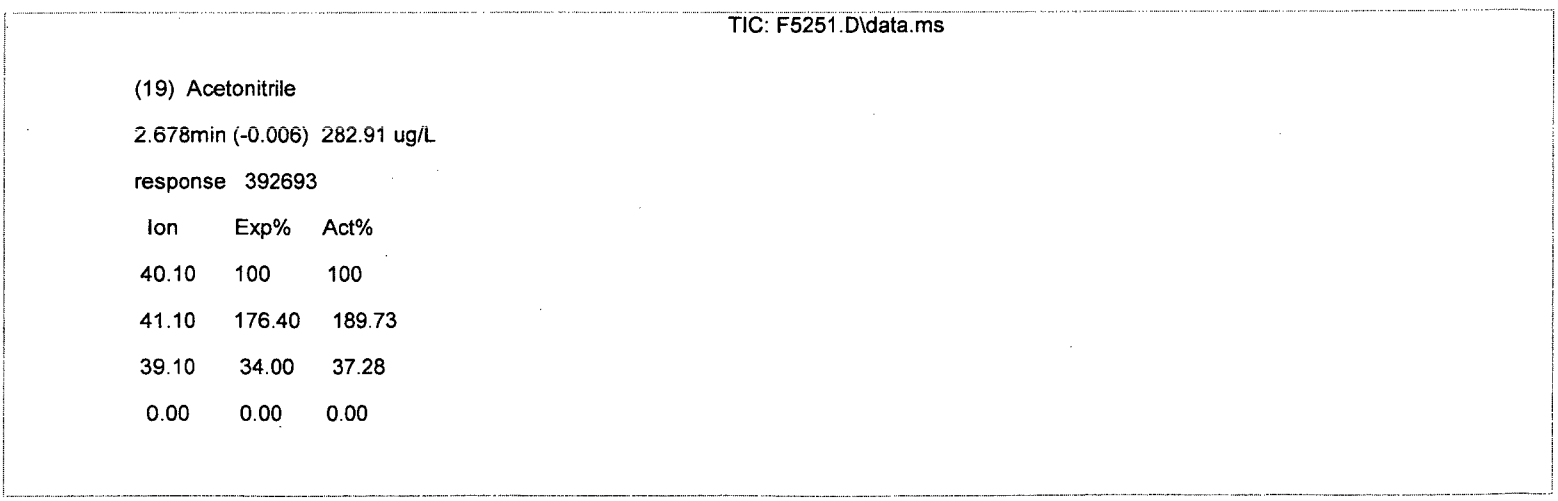
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:16:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration





(19) Acetonitrile

2.678min (-0.006) 282.91 ug/L

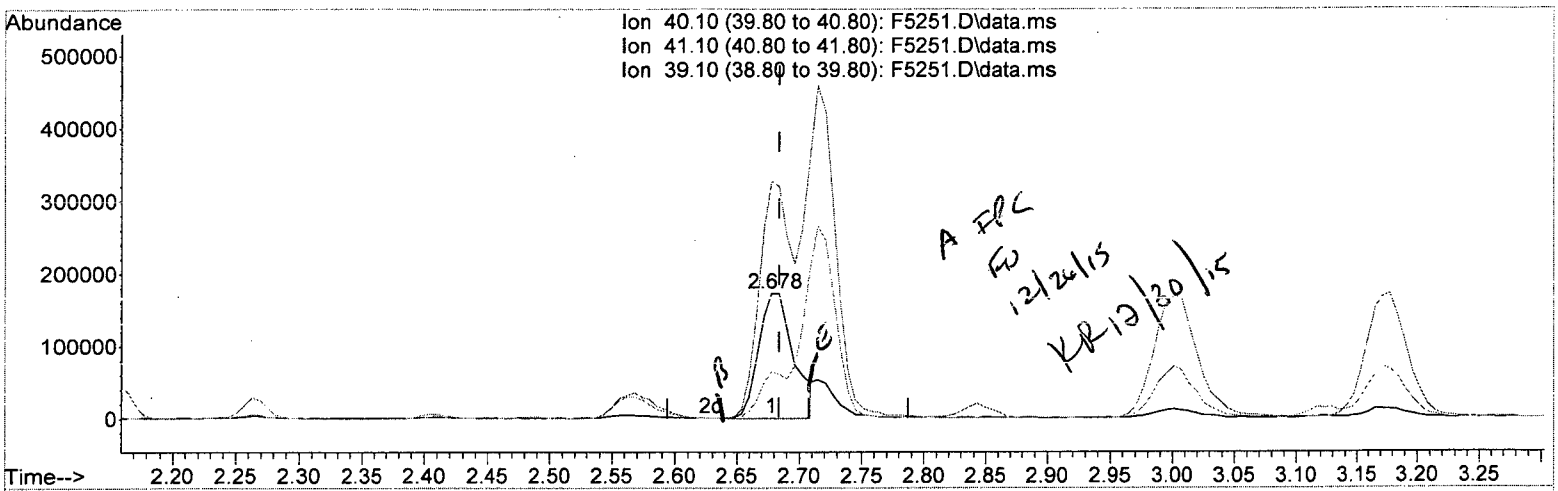
response 392693

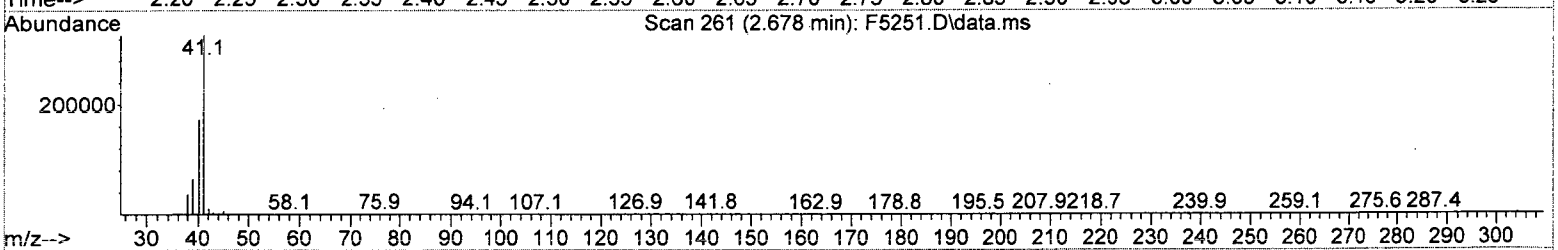
Ion	Exp%	Act%
40.10	100	100
41.10	176.40	189.73
39.10	34.00	37.28
0.00	0.00	0.00

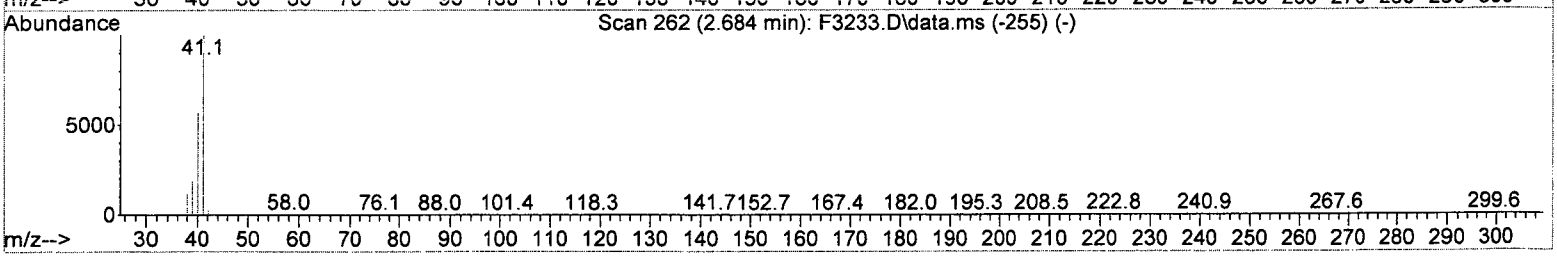
Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:16:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5251.D\data.ms

(19) Acetonitrile

2.678min (-0.006) 240.15 ug/L m

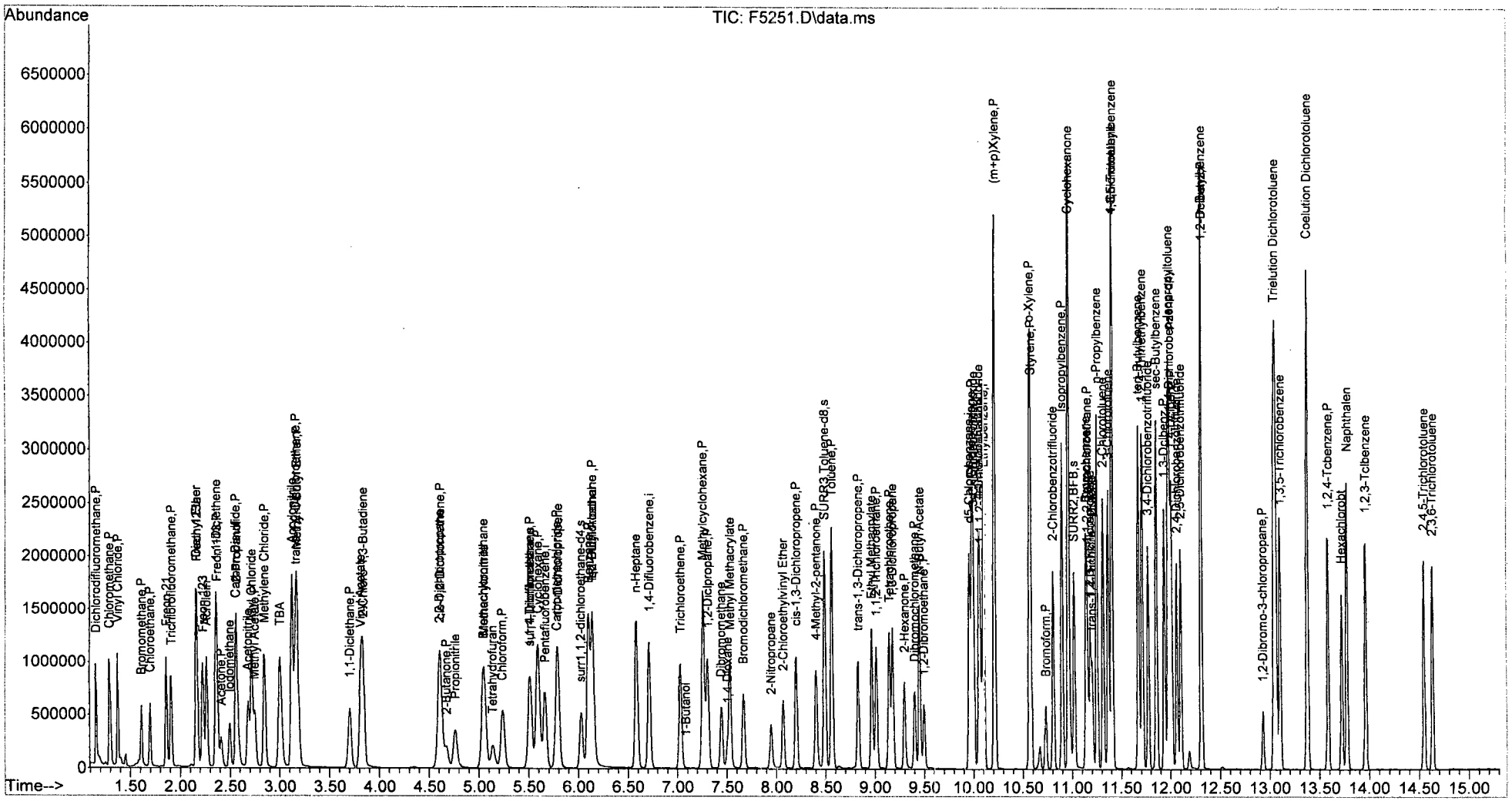
response 333342

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	189.73
39.10	34.00	37.28
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5251.D
Acq On : 23 Dec 2015 10:01 am
Operator : F. Naegler
Sample : CCV Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 23 10:33:14 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



ALS Environmental

VOLATILE ORGANICS
RAW QC DATA

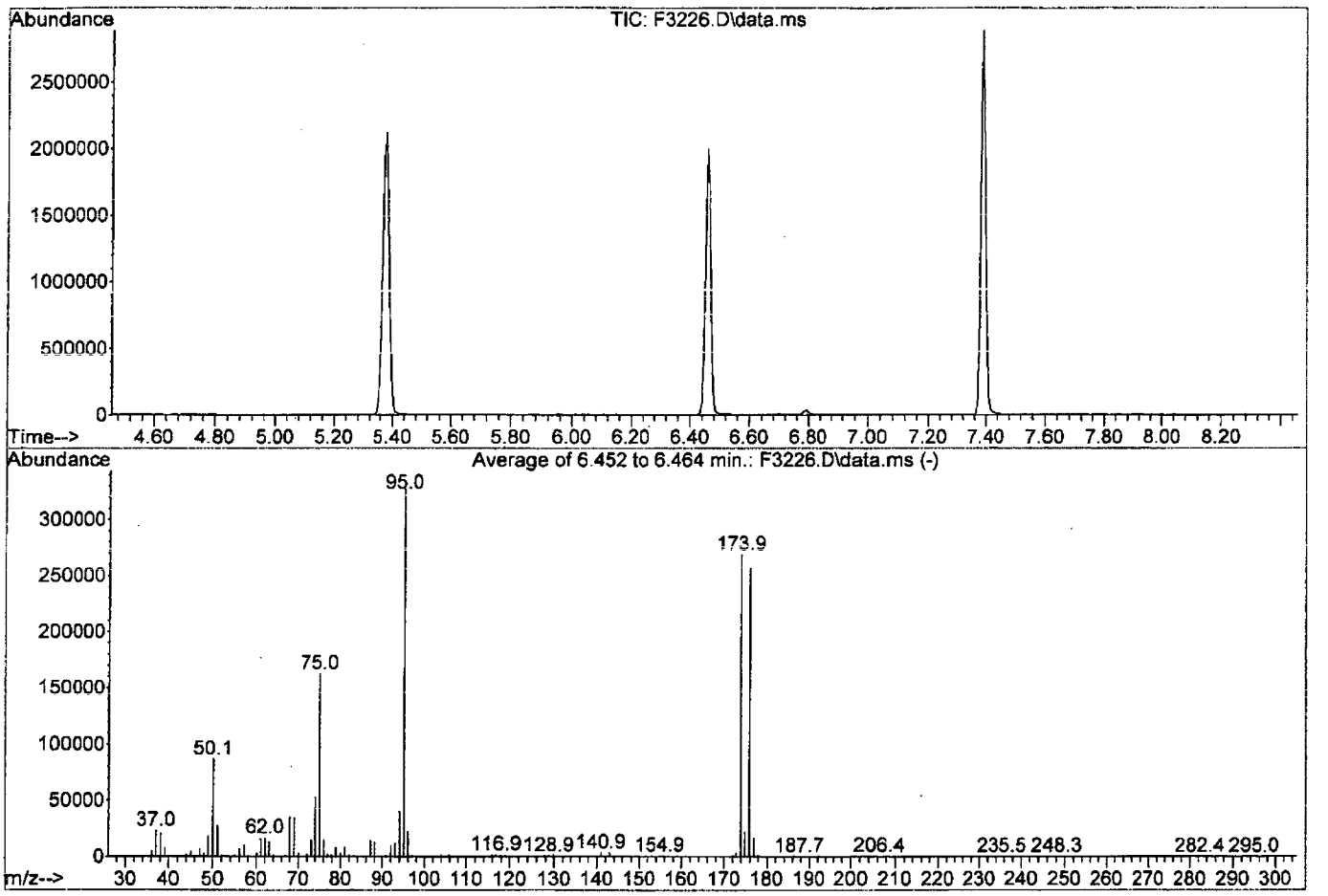
ALS Environmental - Rochester, NY
1565 Jefferson Rd, Bldg. 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

Data Path : I:\ACQUDATA\msvoa10\data\101915\
Data File : F3226.D
Acq On : 19 Oct 2015 5:20 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T101915.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FN 10/20/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

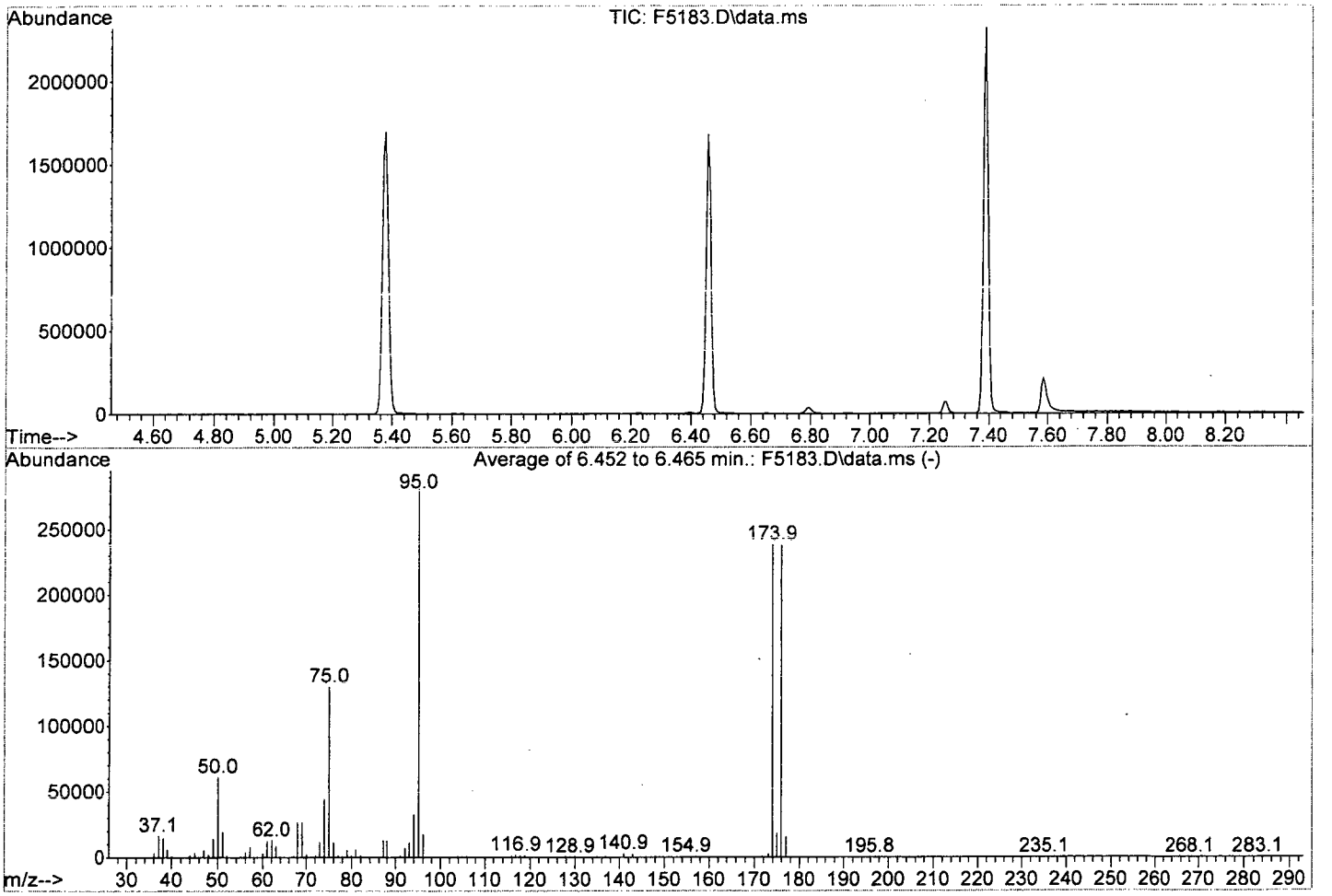
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.4	86355	PASS
75	95	30	60	49.7	162475	PASS
95	95	100	100	100.0	326955	PASS
96	95	5	9	6.8	22173	PASS
173	174	0.00	2	1.0	2677	PASS
174	95	50	120	82.2	268693	PASS
175	174	5	9	8.0	21555	PASS
176	174	95	101	95.7	257088	PASS
177	176	5	9	6.4	16529	PASS

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5183.D
Acq On : 21 Dec 2015 10:57 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T101915.M
Title : 8260B WATERS
Last Update : Wed Sep 27 14:33:13 2006

FD 12/21/15



AutoFind: Scans 388, 389, 390; Background Corrected with Scan 383

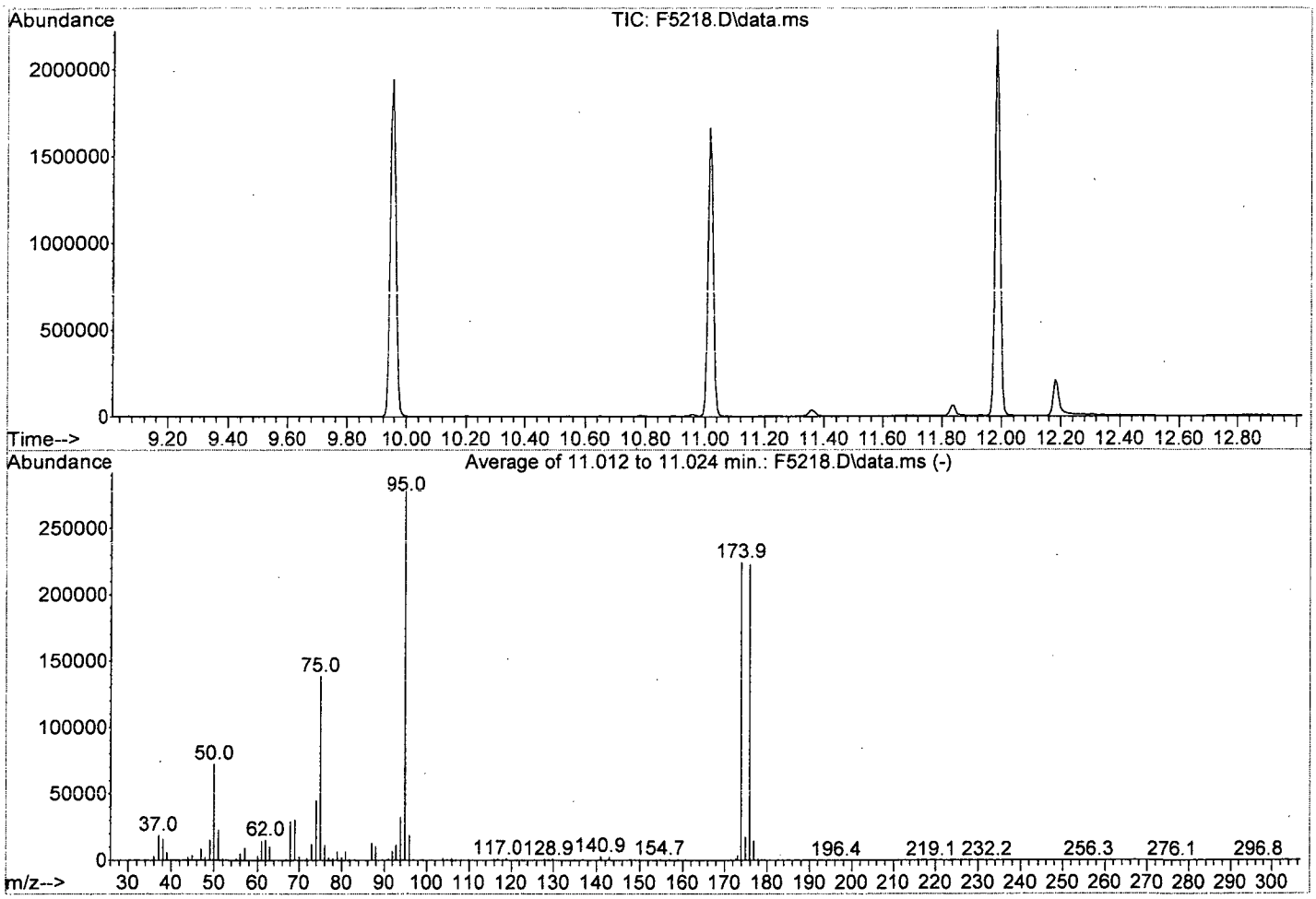
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.6	60883	PASS
75	95	30	60	46.2	129800	PASS
95	95	100	100	100.0	281237	PASS
96	95	5	9	6.3	17733	PASS
173	174	0.00	2	0.9	2219	PASS
174	95	50	120	84.7	238336	PASS
175	174	5	9	7.6	18077	PASS
176	174	95	101	99.7	237696	PASS
177	176	5	9	6.5	15379	PASS

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5218.D
Acq On : 22 Dec 2015 2:23 pm
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Integration File: CPD4.P

FN 12/22/15

Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Title : MS#10 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 20 12:01:30 2015



AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1623

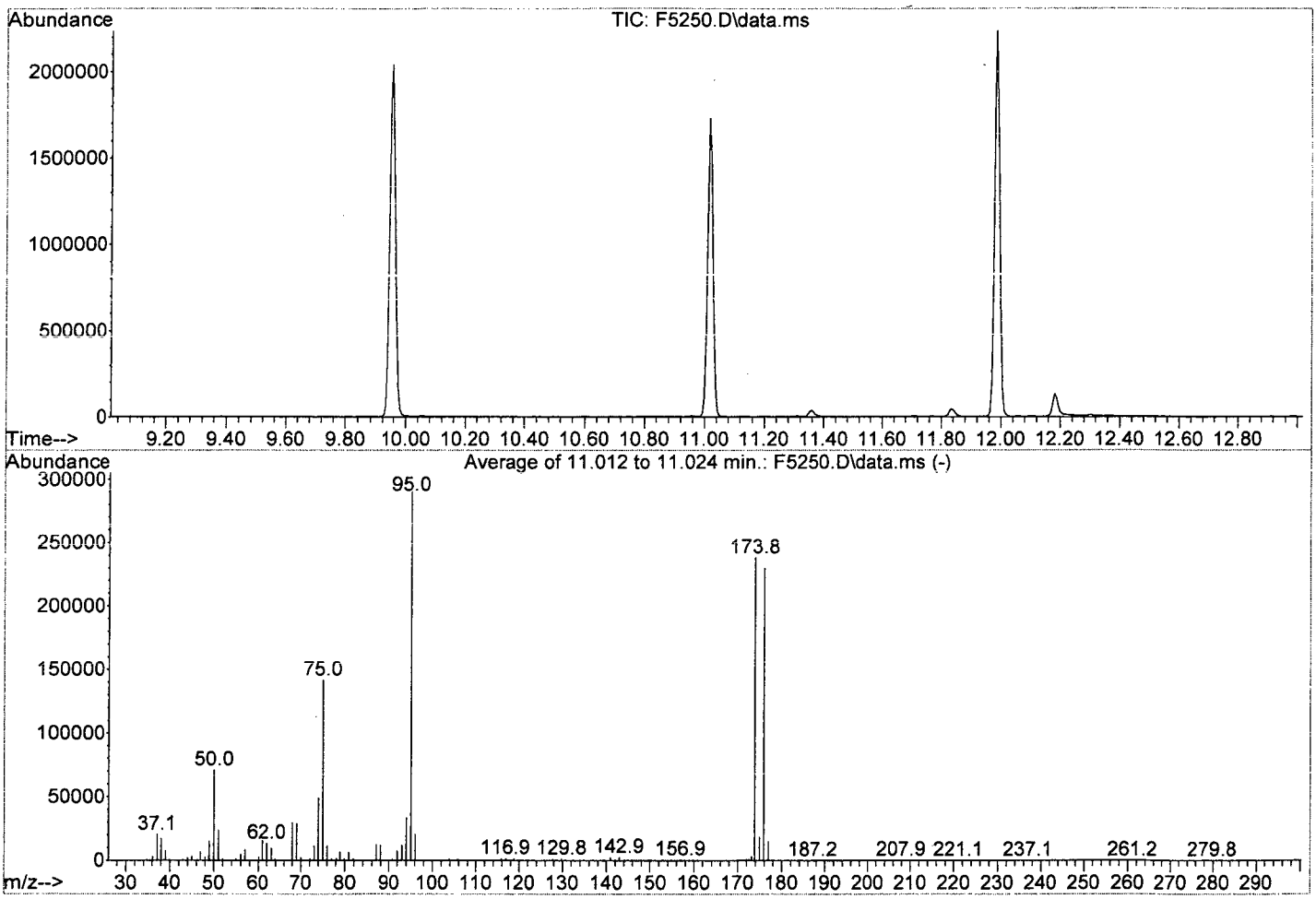
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	72205	PASS
75	95	30	60	49.8	138365	PASS
95	95	100	100	100.0	277995	PASS
96	95	5	9	6.6	18453	PASS
173	174	0.00	2	1.5	3401	PASS
174	95	50	120	80.7	224213	PASS
175	174	5	9	7.8	17546	PASS
176	174	95	101	99.2	222528	PASS
177	176	5	9	6.5	14439	PASS

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5250.D
Acq On : 23 Dec 2015 9:27 am
Operator : F. Naegler
Sample : TUNE Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Title : MS#10 - 8260B WATERS 10mL Purge
Last Update : Tue Oct 20 12:01:30 2015

FJ 12/23/15



AutoFind: Scans 1628, 1629, 1630; Background Corrected with Scan 1623

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	70851	PASS
75	95	30	60	48.8	141581	PASS
95	95	100	100	100.0	290325	PASS
96	95	5	9	7.0	20357	PASS
173	174	0.00	2	1.3	3023	PASS
174	95	50	120	82.0	238057	PASS
175	174	5	9	7.7	18217	PASS
176	174	95	101	96.5	229824	PASS
177	176	5	9	6.4	14626	PASS

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1515808-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/21/15 13:03		477252	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/21/15 13:03		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/21/15 13:03		477252	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/21/15 13:03		477252	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/21/15 13:03		477252	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/21/15 13:03		477252	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/21/15 13:03		477252	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/21/15 13:03		477252	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/21/15 13:03		477252	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
1,4-Dioxane	40	U	40	20	1	NA	12/21/15 13:03		477252	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/21/15 13:03		477252	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/21/15 13:03		477252	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/21/15 13:03		477252	
Acetone	5.0	U	5.0	1.3	1	NA	12/21/15 13:03		477252	
Benzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
Bromoform	1.0	U	1.0	0.42	1	NA	12/21/15 13:03		477252	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/21/15 13:03		477252	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/21/15 13:03		477252	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
Chloroform	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/21/15 13:03		477252	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/21/15 13:03		477252	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/21/15 13:03		477252	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/21/15 13:03		477252	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/21/15 13:03		477252	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1515808-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/21/15 13:03		477252	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/21/15 13:03		477252	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/21/15 13:03		477252	
Styrene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/21/15 13:03		477252	
Toluene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/21/15 13:03		477252	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/21/15 13:03		477252	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/21/15 13:03		477252	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/21/15 13:03		477252	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/21/15 13:03		477252	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/21/15 13:03		477252	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/21/15 13:03		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 13:03	
Dibromofluoromethane	99	89-119	12/21/15 13:03	
Toluene-d8	101	87-121	12/21/15 13:03	

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5187.D
Acq On : 21 Dec 2015 1:03 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:17:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.659	168	623468	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	918655	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	794270	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	414771	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	278076	49.34	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.68%			
46) surr1,1,2-dichloroetha...	6.025	65	336262	44.36	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 88.72%			
64) SURR3,Toluene-d8	8.488	98	1056579	50.48	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.96%			
69) SURR2,BFB	11.018	95	399690	47.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 95.64%			
Target Compounds						Qvalue
5) Bromomethane	1.611	94	615	Below Cal	#	56
15) Acetone	2.416	43	1608	0.29	ug/L	77

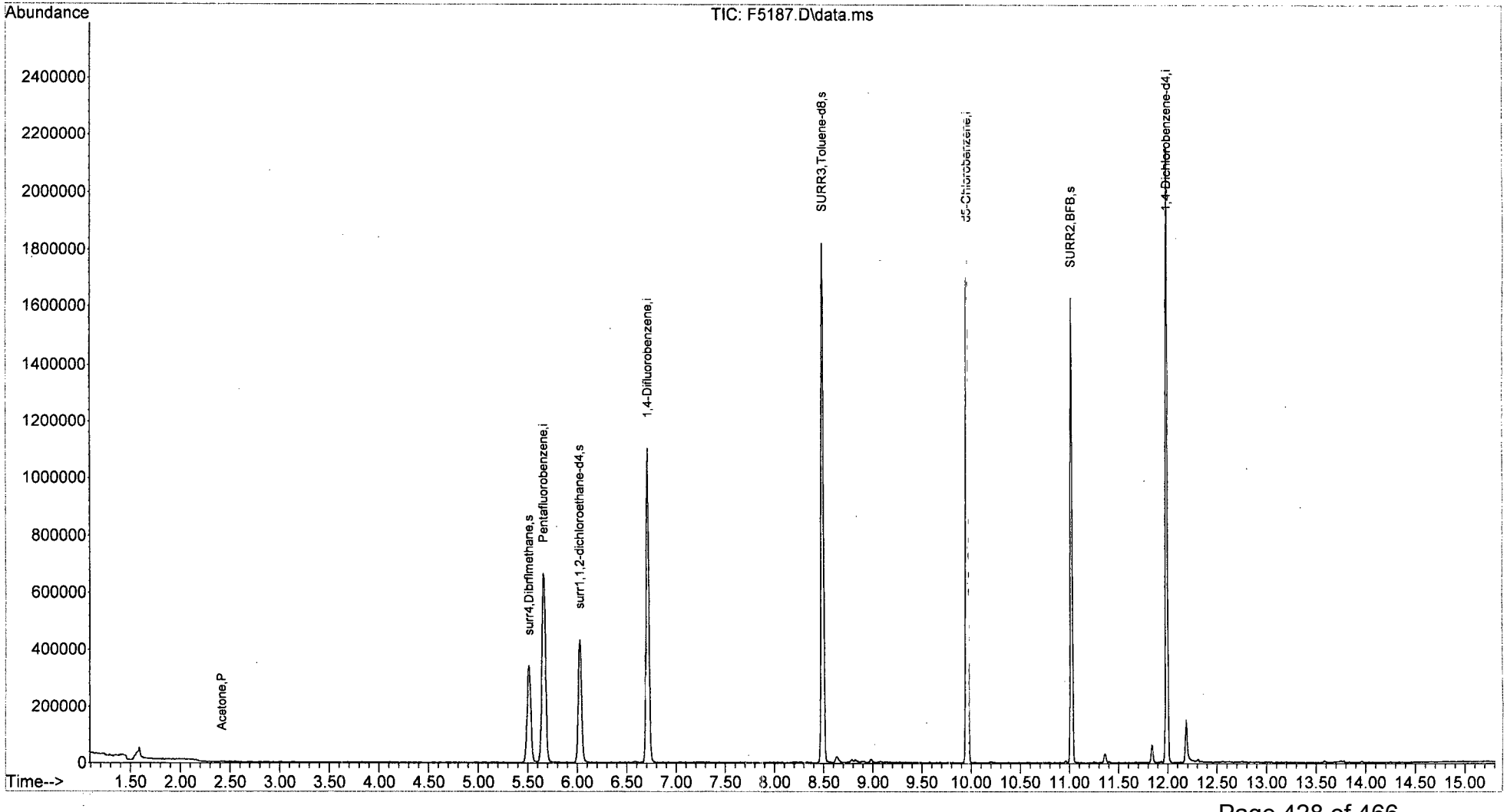
(#) = qualifier out of range (m) = manual integration (+) = signals summed

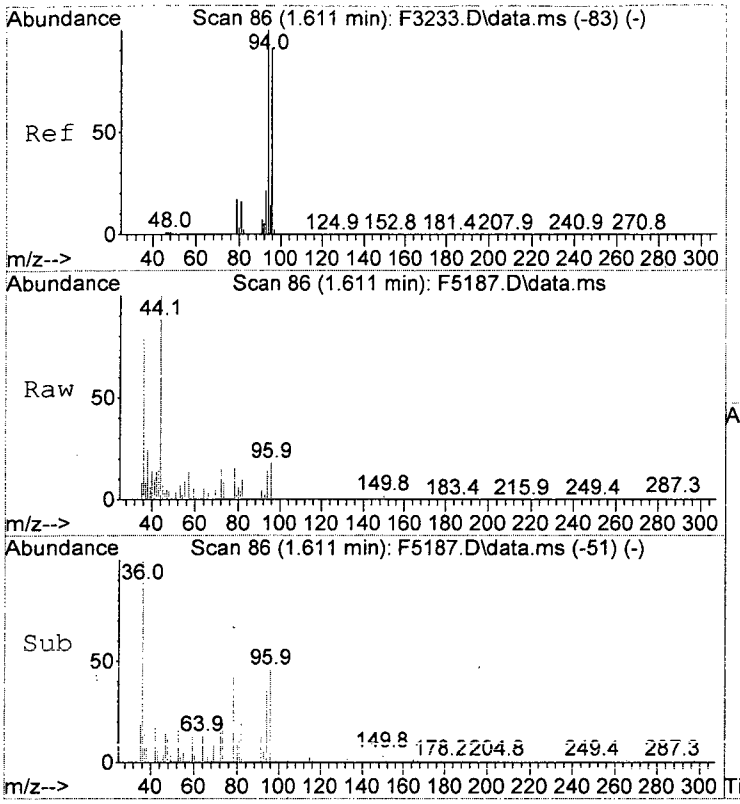
FU 12/22/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5187.D
Acq On : 21 Dec 2015 1:03 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 12:17:39 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

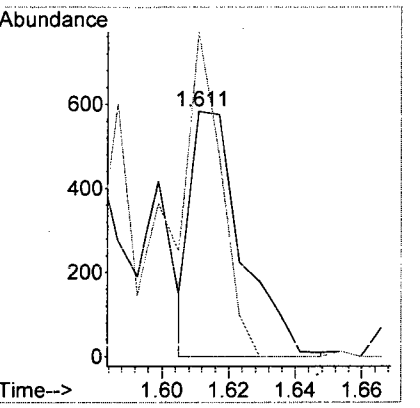


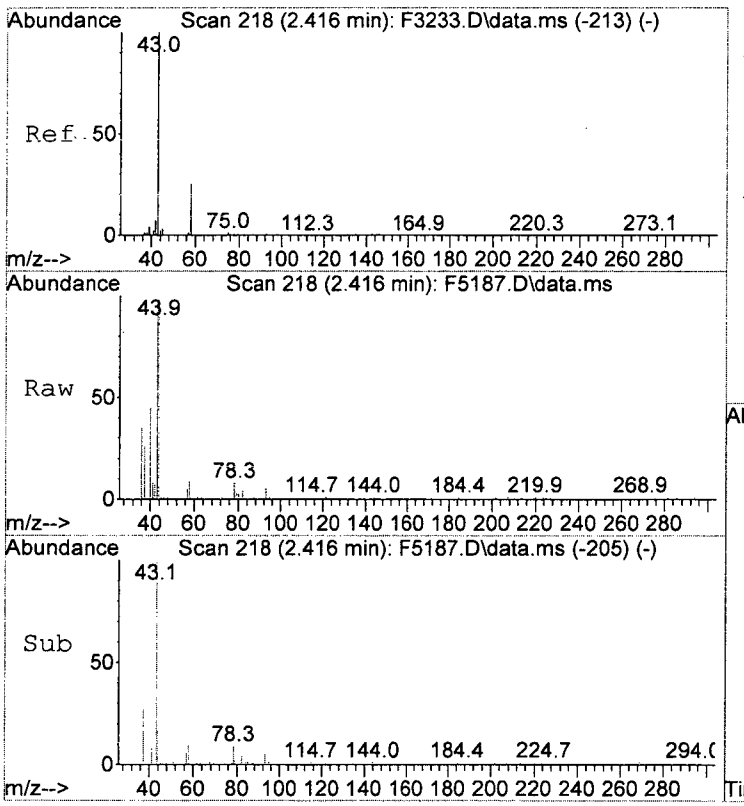


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. -0.012 min
Lab File: F5187.D
Acq: 21 Dec 2015 1:03 pm

Tgt Ion: 94 Resp: 615

Ion	Ratio	Lower	Upper
94	100		
96	132.2	71.0	111.0#

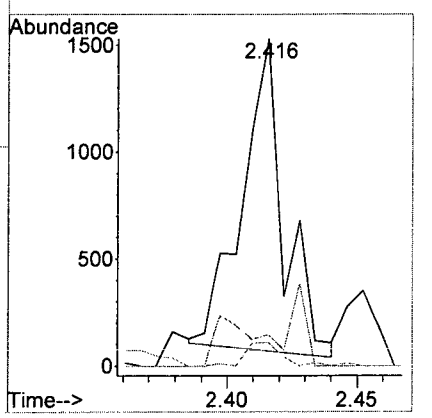




#15
Acetone
Concen: 0.29 ug/L
RT: 2.416 min Scan# 218
Delta R.T. 0.006 min
Lab File: F5187.D
Acq: 21 Dec 2015 1:03 pm

Tgt Ion: 43 Resp: 1608

Ion	Ratio	Lower	Upper
43	100		
58	9.4	4.3	44.3
42	7.1	0.0	27.3



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516065-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/22/15 17:23		477582	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/22/15 17:23		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:23		477582	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/22/15 17:23		477582	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/22/15 17:23		477582	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/22/15 17:23		477582	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/22/15 17:23		477582	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/22/15 17:23		477582	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/22/15 17:23		477582	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
1,4-Dioxane	40	U	40	20	1	NA	12/22/15 17:23		477582	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/22/15 17:23		477582	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/22/15 17:23		477582	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/22/15 17:23		477582	
Acetone	5.0	U	5.0	1.3	1	NA	12/22/15 17:23		477582	
Benzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
Bromoform	1.0	U	1.0	0.42	1	NA	12/22/15 17:23		477582	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/22/15 17:23		477582	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/22/15 17:23		477582	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
Chloroform	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/22/15 17:23		477582	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/22/15 17:23		477582	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/22/15 17:23		477582	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/22/15 17:23		477582	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/22/15 17:23		477582	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516065-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/22/15 17:23		477582	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/22/15 17:23		477582	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/22/15 17:23		477582	
Styrene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/22/15 17:23		477582	
Toluene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/22/15 17:23		477582	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/22/15 17:23		477582	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/22/15 17:23		477582	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/22/15 17:23		477582	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/22/15 17:23		477582	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/22/15 17:23		477582	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/22/15 17:23		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85-122	12/22/15 17:23	
Dibromofluoromethane	101	89-119	12/22/15 17:23	
Toluene-d8	103	87-121	12/22/15 17:23	

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5224.D
Acq On : 22 Dec 2015 5:23 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 15:34:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

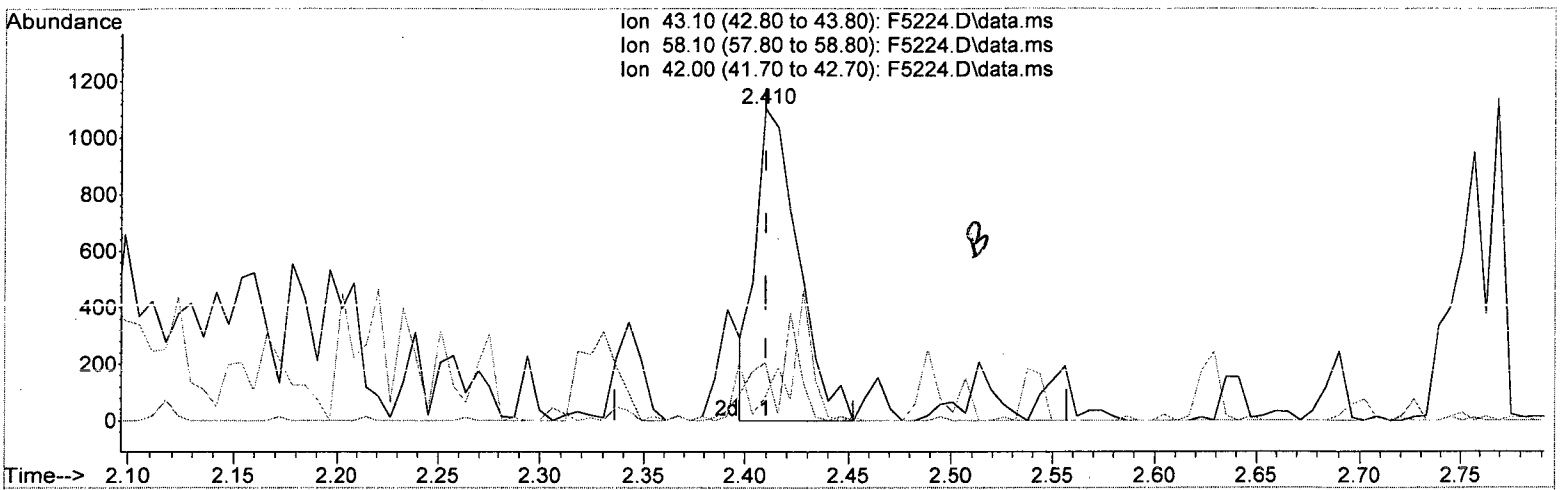
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	588020	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	888577	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	770323	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	392051	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.507	113	275374	50.52	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 101.04%			
46) surr1,1,2-dichloroetha...	6.025	65	367708	50.15	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.30%			
64) SURR3,Toluene-d8	8.488	98	1040912	51.41	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 102.82%			
69) SURR2,BFB	11.018	95	398446	49.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 98.56%			
Target Compounds						Qvalue
5) Bromomethane	1.611	94	552	Below Cal	#	27
15) Acetone	2.410	43	1870m	0.35	ug/L	
111) Trielution Dichlorotol...	13.048	125	3698	0.33	ug/L	73
118) 2,4,5-Trichlorotoluene	14.541	159	1844	0.25	ug/L	91
119) 2,3,6-Trichlorotoluene	14.541	159	1844	0.27	ug/L	94 NT(WP)

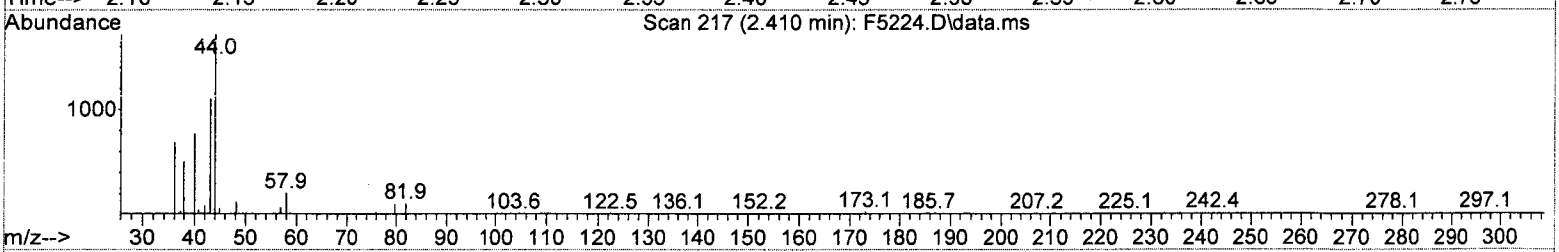
(#) = qualifier out of range (m) = manual integration (+) = signals summed

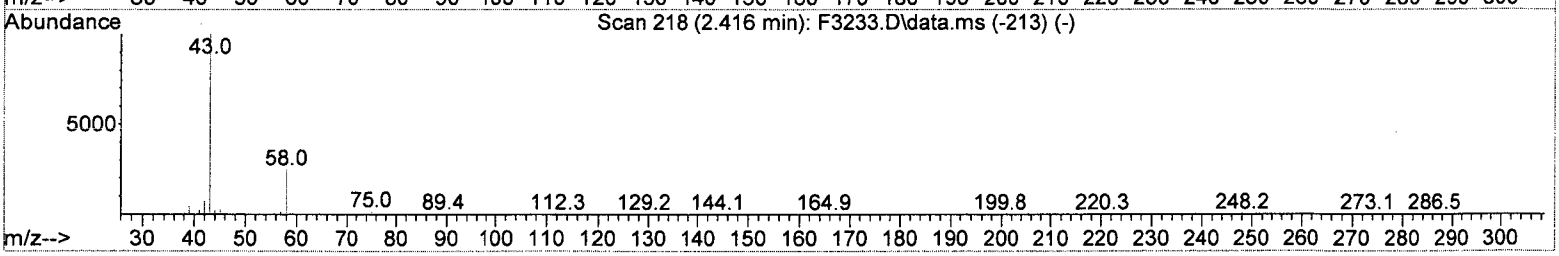
FN 12/29/15

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5224.D
Acq On : 22 Dec 2015 5:23 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 17:37:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5224.D\data.ms

(15) Acetone (P)

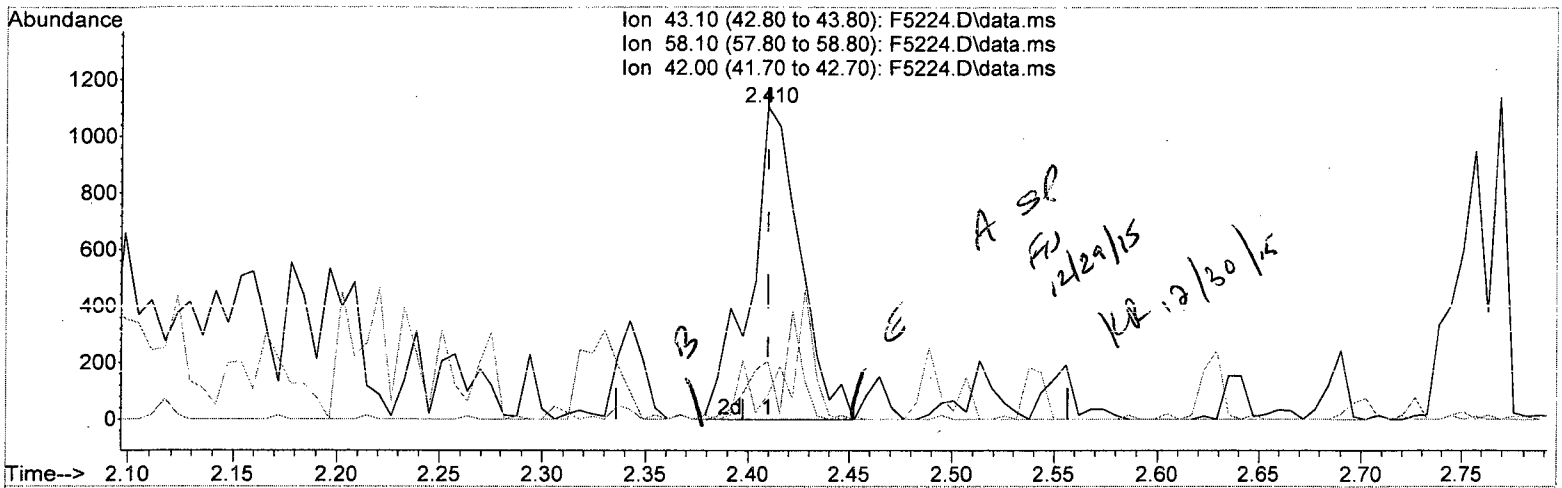
2.410min (-0.000) 0.29 ug/L

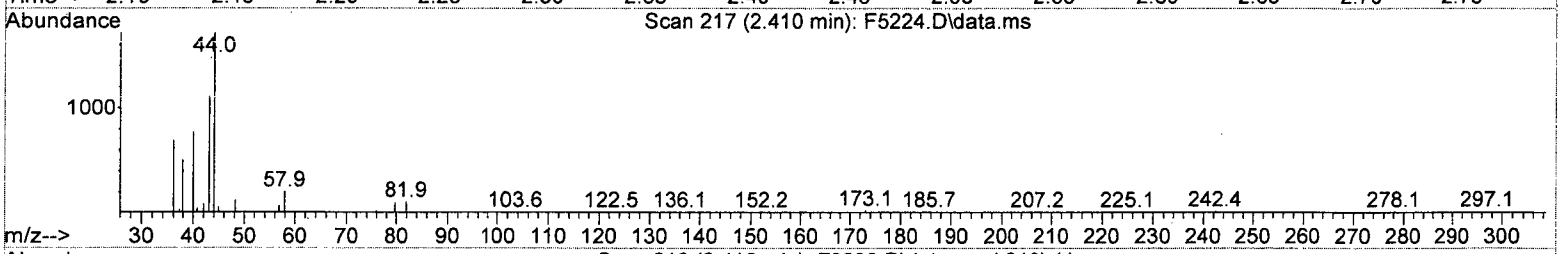
response 1561

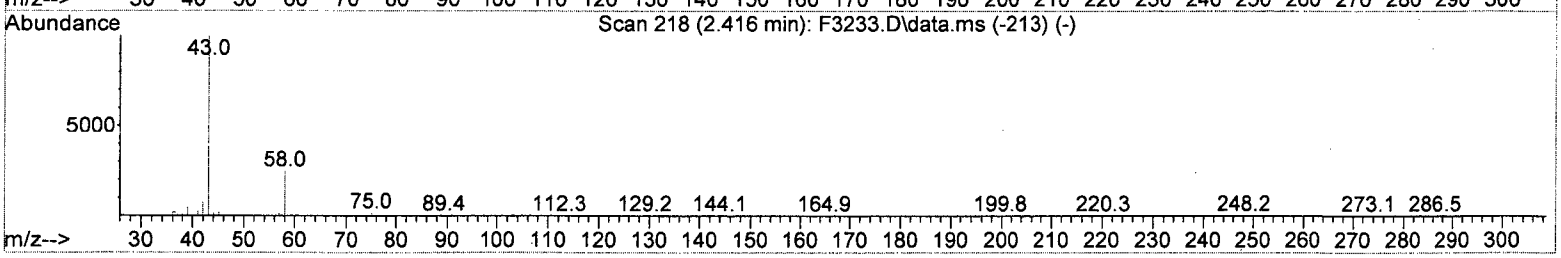
Ion	Exp%	Act%
43.10	100	100
58.10	24.30	18.60
42.00	7.30	7.62
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5224.D
Acq On : 22 Dec 2015 5:23 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 22 17:37:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5224.D\data.ms

(15) Acetone (P)

2.410min (-0.000) 0.35 ug/L m

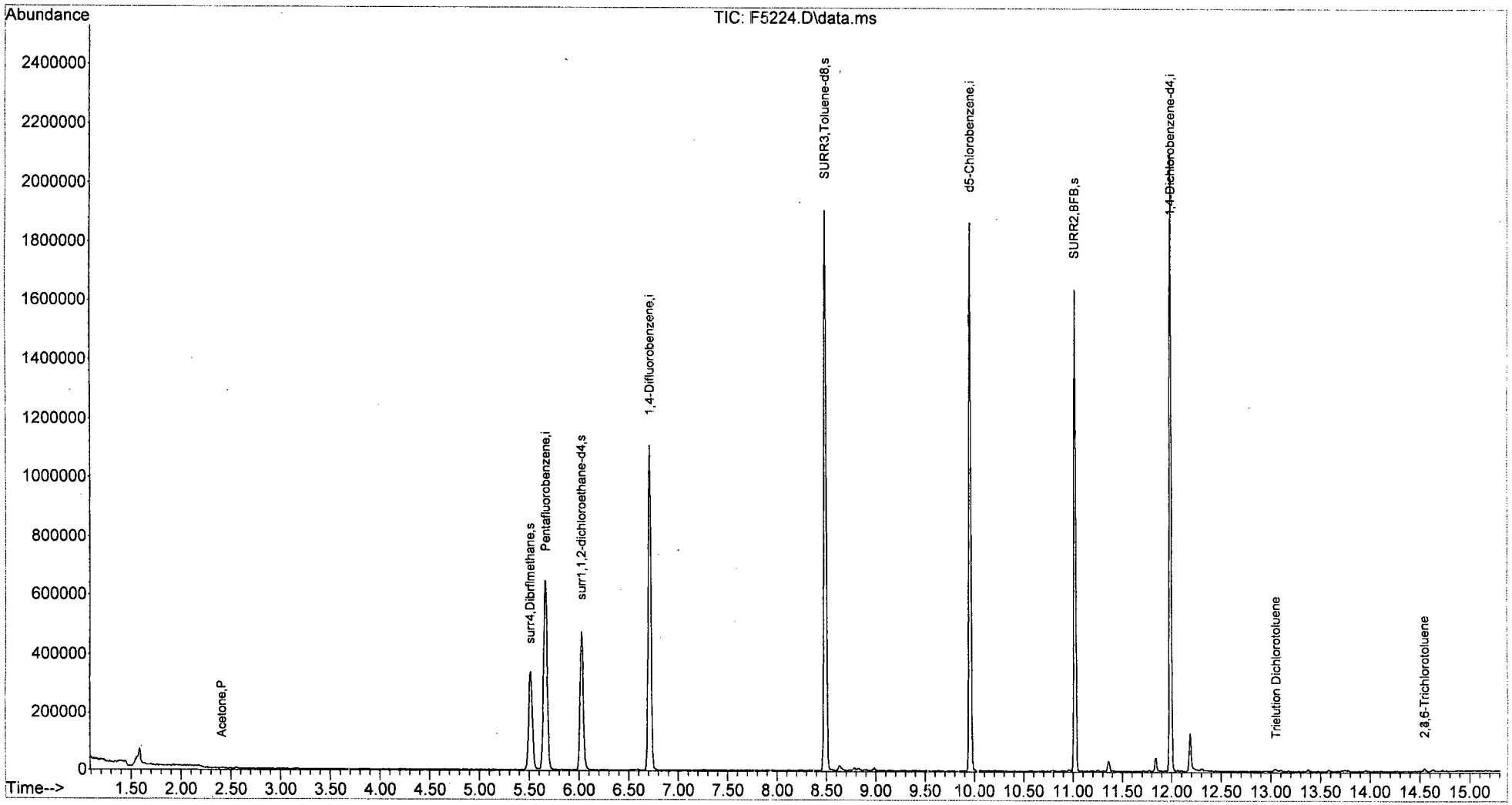
response 1870

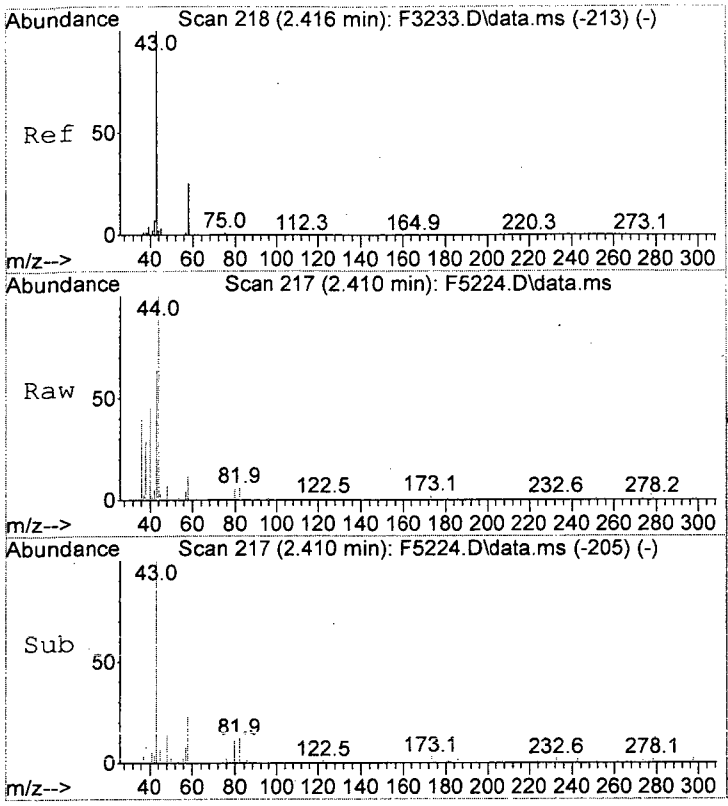
Ion	Exp%	Act%
43.10	100	100
58.10	24.30	18.60
42.00	7.30	7.62
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122215\
Data File : F5224.D
Acq On : 22 Dec 2015 5:23 pm
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 15:34:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

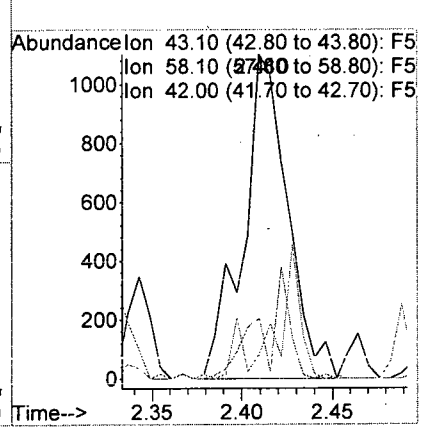




#15
Acetone
Concen: 0.35 ug/L m
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5224.D
Acq: 22 Dec 2015 5:23 pm

Tgt Ion: 43 Resp: 1870

Ion	Ratio	Lower	Upper
43	100		
58	18.6	4.3	44.3
42	7.6	0.0	27.3



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516080-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	1.0	U	1.0	0.36	1	NA	12/23/15 11:51		477634	
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
1,1,2-Trichloroethane	1.0	U	1.0	0.34	1	NA	12/23/15 11:51		477634	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	1	NA	12/23/15 11:51		477634	
1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	0.57	1	NA	12/23/15 11:51		477634	
1,2,3-Trichlorobenzene	1.0	U	1.0	0.82	1	NA	12/23/15 11:51		477634	
1,2,4-Trichlorobenzene	1.0	U	1.0	0.23	1	NA	12/23/15 11:51		477634	
1,2-Dibromo-3-chloropropane (DBCP)	2.0	U	2.0	0.74	1	NA	12/23/15 11:51		477634	
1,2-Dibromoethane	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
1,2-Dichlorobenzene	1.0	U	1.0	0.21	1	NA	12/23/15 11:51		477634	
1,2-Dichloroethane	1.0	U	1.0	0.36	1	NA	12/23/15 11:51		477634	
1,2-Dichloropropane	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,3-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,4-Dichlorobenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
1,4-Dioxane	40	U	40	20	1	NA	12/23/15 11:51		477634	
2-Butanone (MEK)	5.0	U	5.0	0.81	1	NA	12/23/15 11:51		477634	
2-Hexanone	5.0	U	5.0	1.7	1	NA	12/23/15 11:51		477634	
4-Methyl-2-pentanone	5.0	U	5.0	0.67	1	NA	12/23/15 11:51		477634	
Acetone	5.0	U	5.0	1.3	1	NA	12/23/15 11:51		477634	
Benzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Bromochloromethane	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
Bromodichloromethane	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
Bromoform	1.0	U	1.0	0.42	1	NA	12/23/15 11:51		477634	
Bromomethane	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Carbon Disulfide	1.0	U	1.0	0.22	1	NA	12/23/15 11:51		477634	
Carbon Tetrachloride	1.0	U	1.0	0.45	1	NA	12/23/15 11:51		477634	
Chlorobenzene	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Chloroethane	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
Chloroform	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
Chloromethane	1.0	U	1.0	0.21	1	NA	12/23/15 11:51		477634	
Cyclohexane	1.0	U	1.0	0.25	1	NA	12/23/15 11:51		477634	
Dibromochloromethane	1.0	U	1.0	0.31	1	NA	12/23/15 11:51		477634	
Dichlorodifluoromethane (CFC 12)	1.0	U	1.0	0.46	1	NA	12/23/15 11:51		477634	
Dichloromethane	1.0	U	1.0	0.60	1	NA	12/23/15 11:51		477634	
Ethylbenzene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1516080-01	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Methyl Acetate	2.0	U	2.0	0.43	1	NA	12/23/15 11:51		477634	
Methyl tert-Butyl Ether	1.0	U	1.0	0.29	1	NA	12/23/15 11:51		477634	
Methylcyclohexane	1.0	U	1.0	0.27	1	NA	12/23/15 11:51		477634	
Styrene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Tetrachloroethene (PCE)	1.0	U	1.0	0.30	1	NA	12/23/15 11:51		477634	
Toluene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Trichloroethene (TCE)	1.0	U	1.0	0.22	1	NA	12/23/15 11:51		477634	
Trichlorofluoromethane (CFC 11)	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
Vinyl Chloride	1.0	U	1.0	0.32	1	NA	12/23/15 11:51		477634	
cis-1,2-Dichloroethene	1.0	U	1.0	0.30	1	NA	12/23/15 11:51		477634	
cis-1,3-Dichloropropene	1.0	U	1.0	0.24	1	NA	12/23/15 11:51		477634	
m,p-Xylenes	2.0	U	2.0	0.33	1	NA	12/23/15 11:51		477634	
o-Xylene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	
trans-1,2-Dichloroethene	1.0	U	1.0	0.33	1	NA	12/23/15 11:51		477634	
trans-1,3-Dichloropropene	1.0	U	1.0	0.20	1	NA	12/23/15 11:51		477634	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/23/15 11:51	
Dibromofluoromethane	99	89-119	12/23/15 11:51	
Toluene-d8	103	87-121	12/23/15 11:51	

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5255.D
Acq On : 23 Dec 2015 11:51 am
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 16:38:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	624981	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	926663	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	824144	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	411723	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	280368	49.32	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.64%			
46) surr1,1,2-dichloroetha...	6.025	65	391656	51.23	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 102.46%			
64) SURR3,Toluene-d8	8.488	98	1090984	51.67	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.34%			
69) SURR2,BFB	11.018	95	406395	48.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.40%			
Target Compounds						Qvalue
5) Bromomethane	1.611	94	470	Below Cal	#	33
15) Acetone	2.410	43	1543	0.27	ug/L	86

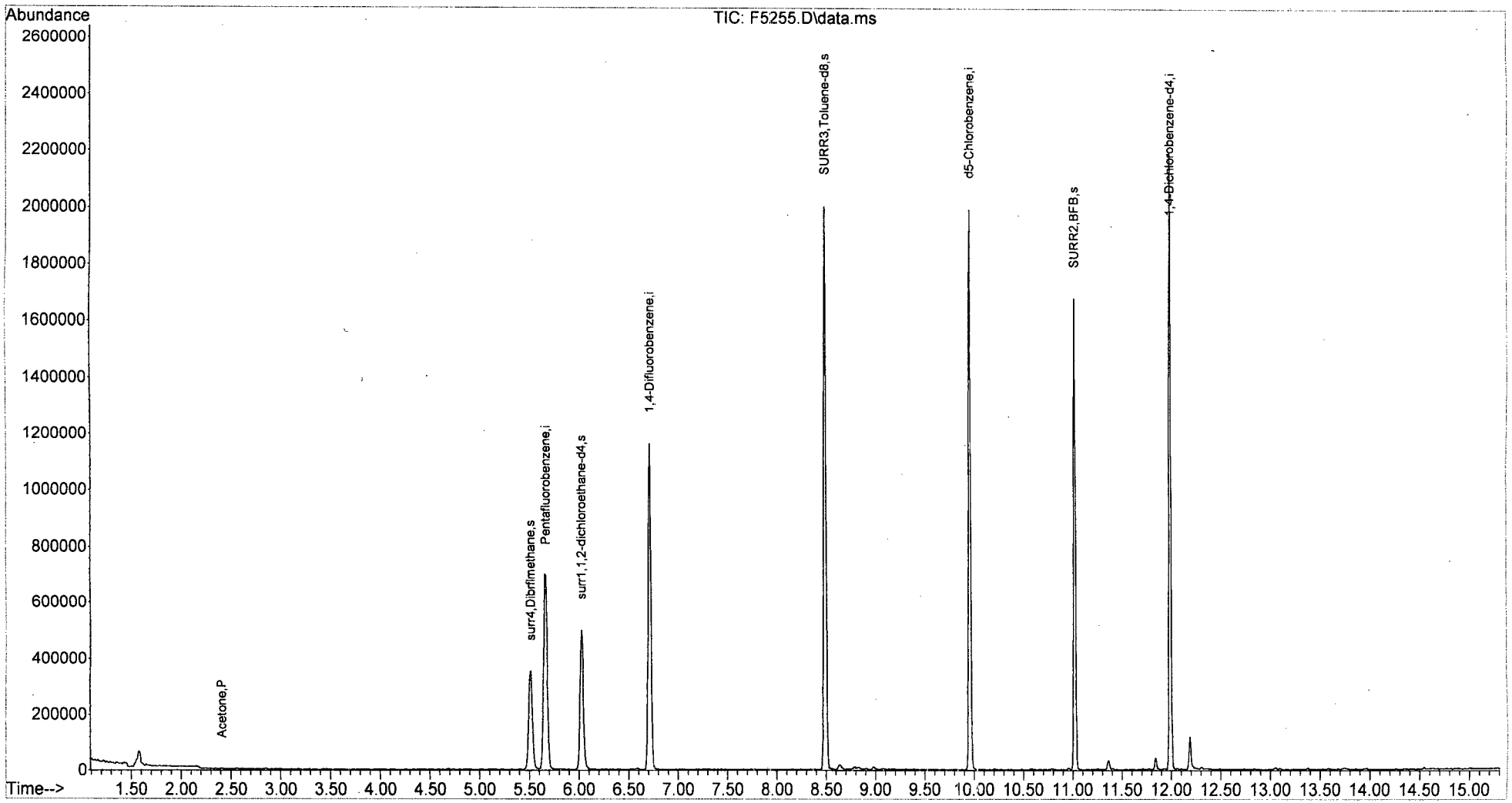
(#) = qualifier out of range (m) = manual integration (+) = signals summed

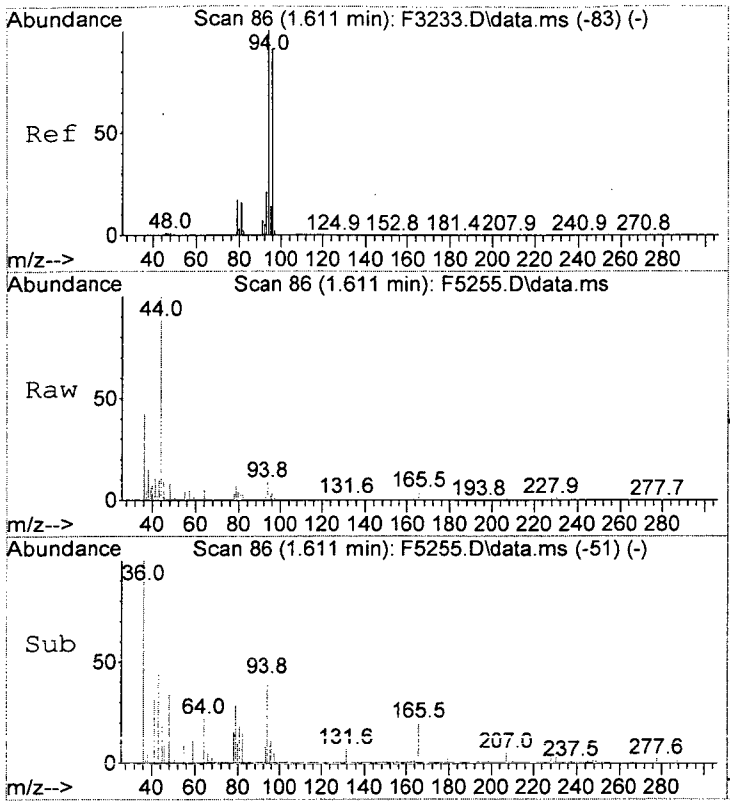
FV
12/30/15

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122315\
Data File : F5255.D
Acq On : 23 Dec 2015 11:51 am
Operator : F. Naegler
Sample : MBLK Inst : MSVOA10
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 16:38:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

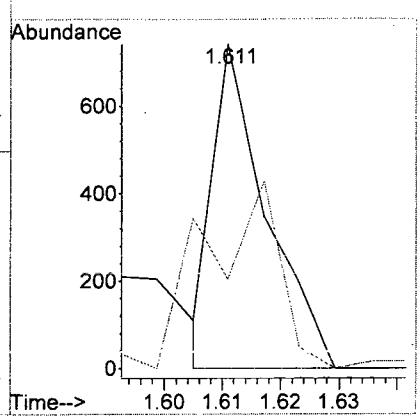


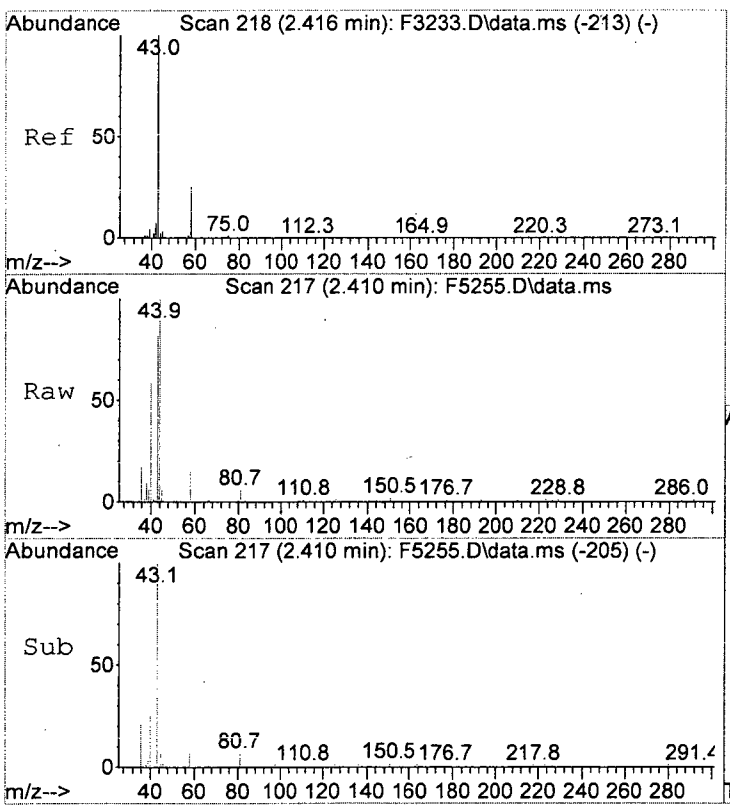


#5
Bromomethane
Concen: Below Cal
RT: 1.611 min Scan# 86
Delta R.T. -0.012 min
Lab File: F5255.D
Acq: 23 Dec 2015 11:51 am

Tgt Ion: 94 Resp: 470

Ion	Ratio	Lower	Upper
94	100		
96	27.4	71.0	111.0#

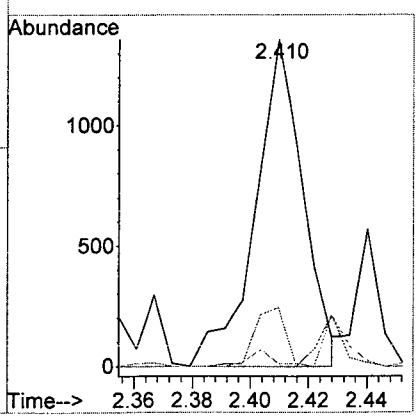




#15
Acetone
Concen: 0.27 ug/L
RT: 2.410 min Scan# 217
Delta R.T. -0.000 min
Lab File: F5255.D
Acq: 23 Dec 2015 11:51 am

Tgt Ion: 43 Resp: 1543

Ion	Ratio	Lower	Upper
43	100		
58	18.0	4.3	44.3
42	1.0	0.0	27.3



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1515808-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	**20.5**		1.0	0.36	1	NA	12/21/15 12:09		477252	
1,1,2,2-Tetrachloroethane	**20.3**		1.0	0.25	1	NA	12/21/15 12:09		477252	
1,1,2-Trichloroethane	**19.8**		1.0	0.34	1	NA	12/21/15 12:09		477252	
1,1,2-Trichloro-1,2,2-trifluoroethane	**19.2**		1.0	0.31	1	NA	12/21/15 12:09		477252	
1,1-Dichloroethane (1,1-DCA)	**20.3**		1.0	0.20	1	NA	12/21/15 12:09		477252	
1,1-Dichloroethene (1,1-DCE)	**22.4**		1.0	0.57	1	NA	12/21/15 12:09		477252	
1,2,3-Trichlorobenzene	**19.5**		1.0	0.82	1	NA	12/21/15 12:09		477252	
1,2,4-Trichlorobenzene	**20.6**		1.0	0.23	1	NA	12/21/15 12:09		477252	
1,2-Dibromo-3-chloropropane (DBCP)	**22.2**		2.0	0.74	1	NA	12/21/15 12:09		477252	
1,2-Dibromoethane	**24.0**		1.0	0.24	1	NA	12/21/15 12:09		477252	
1,2-Dichlorobenzene	**21.9**		1.0	0.21	1	NA	12/21/15 12:09		477252	
1,2-Dichloroethane	**17.7**		1.0	0.36	1	NA	12/21/15 12:09		477252	
1,2-Dichloropropane	**20.1**		1.0	0.20	1	NA	12/21/15 12:09		477252	
1,3-Dichlorobenzene	**22.2**		1.0	0.20	1	NA	12/21/15 12:09		477252	
1,4-Dichlorobenzene	**21.8**		1.0	0.20	1	NA	12/21/15 12:09		477252	
1,4-Dioxane	**315**		40	20	1	NA	12/21/15 12:09		477252	
2-Butanone (MEK)	**16.3**		5.0	0.81	1	NA	12/21/15 12:09		477252	
2-Hexanone	**16.7**		5.0	1.7	1	NA	12/21/15 12:09		477252	
4-Methyl-2-pentanone	**16.0**		5.0	0.67	1	NA	12/21/15 12:09		477252	
Acetone	**17.0**		5.0	1.3	1	NA	12/21/15 12:09		477252	
Benzene	**19.4**		1.0	0.20	1	NA	12/21/15 12:09		477252	
Bromochloromethane	**21.3**		1.0	0.32	1	NA	12/21/15 12:09		477252	
Bromodichloromethane	**20.4**		1.0	0.32	1	NA	12/21/15 12:09		477252	
Bromoform	**23.2**		1.0	0.42	1	NA	12/21/15 12:09		477252	
Bromomethane	**24.2**		1.0	0.29	1	NA	12/21/15 12:09		477252	
Carbon Disulfide	**20.5**		1.0	0.22	1	NA	12/21/15 12:09		477252	
Carbon Tetrachloride	**20.2**		1.0	0.45	1	NA	12/21/15 12:09		477252	
Chlorobenzene	**21.0**		1.0	0.29	1	NA	12/21/15 12:09		477252	
Chloroethane	**20.6**		1.0	0.24	1	NA	12/21/15 12:09		477252	
Chloroform	**19.8**		1.0	0.25	1	NA	12/21/15 12:09		477252	
Chloromethane	**17.6**		1.0	0.21	1	NA	12/21/15 12:09		477252	
Cyclohexane	**14.6**		1.0	0.25	1	NA	12/21/15 12:09		477252	
Dibromochloromethane	**24.8**		1.0	0.31	1	NA	12/21/15 12:09		477252	
Dichlorodifluoromethane (CFC 12)	**19.6**		1.0	0.46	1	NA	12/21/15 12:09		477252	
Dichloromethane	**19.4**		1.0	0.60	1	NA	12/21/15 12:09		477252	
Ethylbenzene	**21.7**		1.0	0.20	1	NA	12/21/15 12:09		477252	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1515808-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**20.0**		1.0	0.20	1	NA	12/21/15 12:09		477252	
Methyl Acetate	**15.0**		2.0	0.43	1	NA	12/21/15 12:09		477252	
Methyl tert-Butyl Ether	**18.7**		1.0	0.29	1	NA	12/21/15 12:09		477252	
Methylcyclohexane	**16.5**		1.0	0.27	1	NA	12/21/15 12:09		477252	
Styrene	**20.8**		1.0	0.20	1	NA	12/21/15 12:09		477252	
Tetrachloroethene (PCE)	**21.5**		1.0	0.30	1	NA	12/21/15 12:09		477252	
Toluene	**19.8**		1.0	0.20	1	NA	12/21/15 12:09		477252	
Trichloroethene (TCE)	**22.2**		1.0	0.22	1	NA	12/21/15 12:09		477252	
Trichlorofluoromethane (CFC 11)	**21.3**		1.0	0.20	1	NA	12/21/15 12:09		477252	
Vinyl Chloride	**19.5**		1.0	0.32	1	NA	12/21/15 12:09		477252	
cis-1,2-Dichloroethene	**20.6**		1.0	0.30	1	NA	12/21/15 12:09		477252	
cis-1,3-Dichloropropene	**20.8**		1.0	0.24	1	NA	12/21/15 12:09		477252	
m,p-Xylenes	**41.2**		2.0	0.33	1	NA	12/21/15 12:09		477252	
o-Xylene	**20.7**		1.0	0.20	1	NA	12/21/15 12:09		477252	
trans-1,2-Dichloroethene	**21.4**		1.0	0.33	1	NA	12/21/15 12:09		477252	
trans-1,3-Dichloropropene	**22.1**		1.0	0.20	1	NA	12/21/15 12:09		477252	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	12/21/15 12:09	
Dibromofluoromethane	99	89-119	12/21/15 12:09	
Toluene-d8	100	87-121	12/21/15 12:09	

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 12:42:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FV 12/24/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	649843	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	968050	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	810224	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	438626	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	293455	49.42	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 98.84%				
46) surr1,1,2-dichloroetha...	6.025	65	351117	43.96	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 87.92%				
64) SURR3,Toluene-d8	8.488	98	1104766	50.09	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 100.18%				
69) SURR2,BFB	11.018	95	424251	48.17	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 96.34%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.154	85	182811	19.56	ug/L		96
3) Chloromethane	1.288	50	275804	17.62	ug/L		99
4) Vinyl Chloride	1.373	62	211163	19.46	ug/L		97
5) Bromomethane	1.611	94	116003	24.21	ug/L		94
6) Chloroethane	1.696	64	111155	20.58	ug/L		100
7) Freon 21	1.861	67	249618	19.92	ug/L		100
8) Trichlorofluoromethane	1.910	101	198847	21.34	ug/L		97
9) Diethyl Ether	2.160	59	150745	19.99	ug/L		95
10) Freon 123a	2.166	67	148142	19.10	ug/L		97
11) Freon 123	2.227	83	152208	18.93	ug/L		97
12) Acrolein	2.263	56	76575	34.06	ug/L		99
13) 1,1-Diclethene	2.361	96	115955	22.44	ug/L	#	82
14) Freon 113	2.367	101	111008	19.24	ug/L		99
15) Acetone	2.410	43	99319	16.95	ug/L		88
16) 2-Propanol	2.562	45	303422	306.79	ug/L		99
17) Iodomethane	2.495	142	155892	21.28	ug/L		93
18) Carbon Disulfide	2.562	76	311034	20.54	ug/L		97
19) Acetonitrile	2.684	40	114982m	80.17	ug/L		
20) Allyl Chloride	2.721	76	60411	20.42	ug/L	#	77
21) Methyl Acetate	2.751	43	179798	14.97	ug/L		95
22) Methylene Chloride	2.842	84	130741	19.36	ug/L		90
23) TBA	3.001	59	437794	359.44	ug/L		94
24) Acrylonitrile	3.123	53	490076	89.40	ug/L		99
25) Methyl-t-Butyl Ether	3.178	73	395256	18.73	ug/L		97
26) trans-1,2-Dichloroethene	3.159	96	125209	21.40	ug/L		92
27) 1,1-Diclethane	3.702	63	246151	20.32	ug/L		95
28) Vinyl Acetate	3.806	86	28306	21.33	ug/L	#	89
30) 2-Chloro-1,3-Butadiene	3.836	53	245817	16.84	ug/L		90
32) 2,2-Dichloropropane	4.610	77	144061	22.62	ug/L		97
33) cis-1,2-Dichloroethene	4.610	96	135651	20.62	ug/L		87
34) 2-Butanone	4.671	43	136001	16.34	ug/L		96
35) Propionitrile	4.763	54	200018	90.01	ug/L		98
36) Bromochloromethane	5.043	130	93900	21.27	ug/L	#	87
37) Methacrylonitrile	5.049	67	74858	18.60	ug/L	#	79

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 12:42:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Tetrahydrofuran	5.135	42	86901	16.09	ug/L		84
39) Chloroform	5.238	83	215598	19.82	ug/L		92
40) 1,1,1-Trichloroethane	5.507	97	169075	20.53	ug/L		95
42) Cyclohexane	5.598	41	149706	14.56	ug/L		94
44) Carbontetrachloride	5.781	121	44406	20.18	ug/L		85
45) 1,1-Dichloropropene	5.793	75	167771	19.86	ug/L		98
47) Benzene	6.098	78	499468	19.36	ug/L		97
48) 1,2-Dichloroethane	6.141	62	194252	17.72	ug/L		96
49) Iso-Butyl Alcohol	6.141	43	229396	335.43	ug/L		100
51) n-Heptane	6.580	43	246124	17.87	ug/L		98
52) 1-Butanol	7.073	56	746	25.83	ug/L	#	39
53) Trichloroethene	7.031	130	147028	22.16	ug/L		95
54) Methylcyclohexane	7.256	55	190895	16.53	ug/L		94
55) 1,2-Diclpropane	7.305	63	152583	20.06	ug/L		99
56) Dibromomethane	7.445	93	83645	20.19	ug/L		96
57) 1,4-Dioxane	7.500	88	52013	315.26	ug/L		88
58) Methyl Methacrylate	7.531	69	111857	18.72	ug/L	#	84
59) Bromodichloromethane	7.665	83	154935	20.40	ug/L		95
60) 2-Nitropropane	7.945	41	72013	44.97	ug/L		99
61) 2-Chloroethylvinyl Ether	8.067	63	86610	14.52	ug/L		95
62) cis-1,3-Dichloropropene	8.195	75	191082	20.84	ug/L		97
63) 4-Methyl-2-pentanone	8.402	43	258210	16.00	ug/L		97
65) Toluene	8.561	91	525306	19.82	ug/L		99
66) trans-1,3-Dichloropropene	8.829	75	163854	22.13	ug/L		98
67) Ethyl Methacrylate	8.963	69	192064	21.32	ug/L		89
68) 1,1,2-Trichloroethane	9.012	97	122831	19.79	ug/L		97
71) Tetrachloroethene	9.140	164	107656	21.49	ug/L		95
72) 2-Hexanone	9.299	43	192162	16.69	ug/L		95
73) 1,3-Dichloropropane	9.177	76	217166	21.44	ug/L		86
74) Dibromochloromethane	9.402	129	133157	24.77	ug/L		94
75) N-Butyl Acetate	9.451	43	303288	15.74	ug/L		96
76) 1,2-Dibromoethane	9.494	107	135712	24.00	ug/L		100
78) Chlorobenzene	9.981	112	359394	21.04	ug/L		93
80) 1,1,1,2-Tetrachloroethane	10.067	131	121389	22.69	ug/L		97
81) Ethylbenzene	10.103	106	186840	21.65	ug/L		96
82) (m+p)Xylene	10.213	106	454409	41.18	ug/L		97
83) o-Xylene	10.567	106	226580	20.70	ug/L		94
84) Styrene	10.579	104	391198	20.76	ug/L		97
85) Bromoform	10.731	173	88849	23.23	ug/L		94
87) Isopropylbenzene	10.896	105	572600	20.04	ug/L		97
88) Cyclohexanone	10.957	55	795085	424.86	ug/L		91
89) trans-1,4-Dichloro-2-B...	11.201	53	58521	18.92	ug/L		86
91) 1,1,2,2-Tetrachloroethane	11.152	83	180256	20.32	ug/L		91
92) Bromobenzene	11.140	156	160761	21.85	ug/L		94
93) 1,2,3-Trichloropropane	11.182	110	55924	19.44	ug/L	#	88
94) n-Propylbenzene	11.249	91	676311	20.61	ug/L		98
95) 2-Chlorotoluene	11.310	91	402579	21.18	ug/L		99
97) 4-Chlorotoluene	11.402	91	469796	20.77	ug/L		98
98) 1,3,5-Trimethylbenzene	11.402	105	470807	20.52	ug/L		99
99) tert-Butylbenzene	11.670	119	411391	19.69	ug/L		97
100) 1,2,4-Trimethylbenzene	11.713	105	484301	20.41	ug/L		97

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

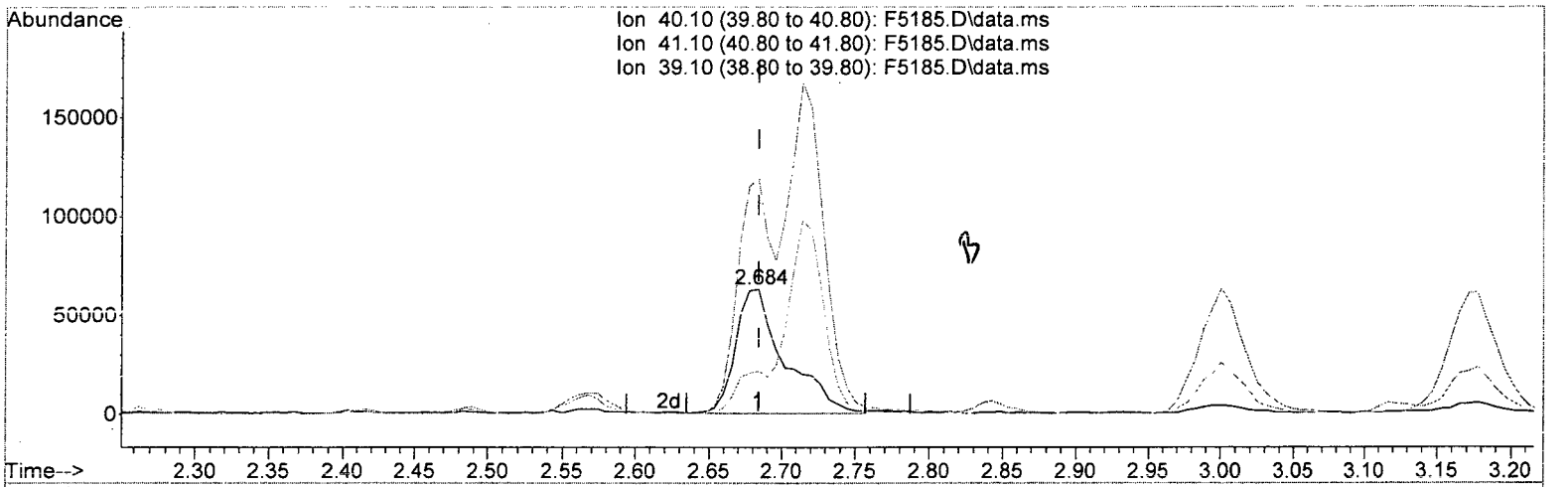
Quant Time: Dec 21 12:42:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

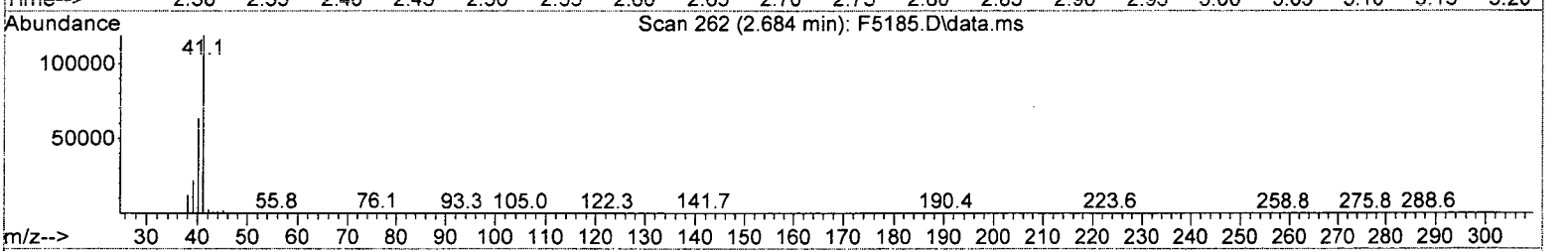
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
102) sec-Butylbenzene	11.853	105	603814	20.16	ug/L	98
103) p-Isopropyltoluene	11.975	119	526186	21.61	ug/L	97
104) 1,3-Dclbenz	11.932	146	309377	22.20	ug/L	96
105) 1,4-Dclbenz	12.005	146	308679	21.83	ug/L	97
108) n-Butylbenzene	12.304	91	484636	21.38	ug/L	97
109) 1,2-Dclbenz	12.310	146	301769	21.85	ug/L	95
110) 1,2-Dibromo-3-chloropr...	12.932	157	41845	22.18	ug/L	94
114) 1,2,4-Tcbenzene	13.584	180	219313	20.61	ug/L	97
115) Hexachlorobt	13.718	225	96229	20.58	ug/L	93
116) Naphthalen	13.773	128	655338	20.53	ug/L	97
117) 1,2,3-Tclbenzene	13.962	180	212955	19.47	ug/L	99

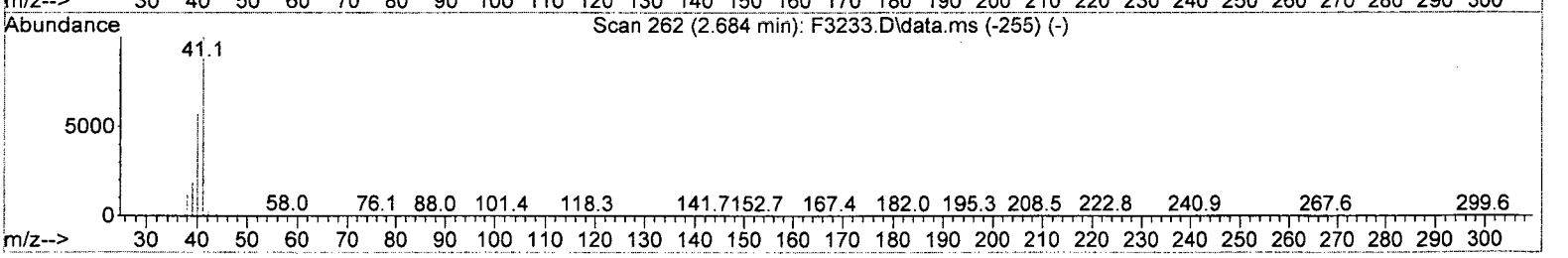
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 12:23:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5185.D\data.ms

(19) Acetonitrile

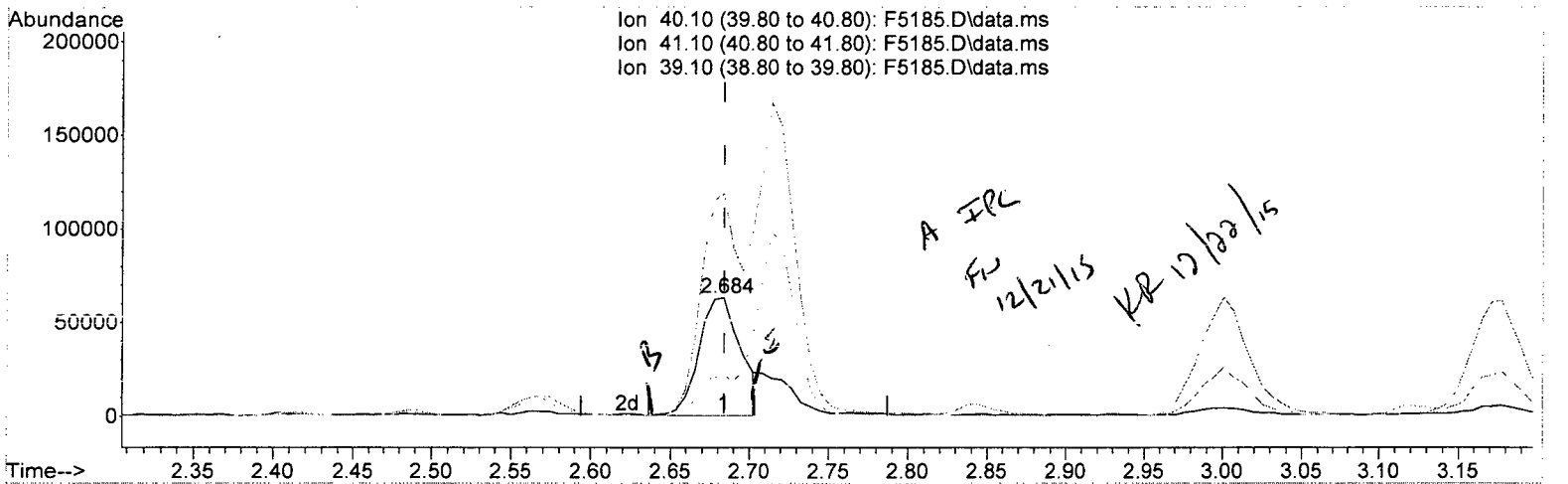
2.684min (-0.000) 102.87 ug/L

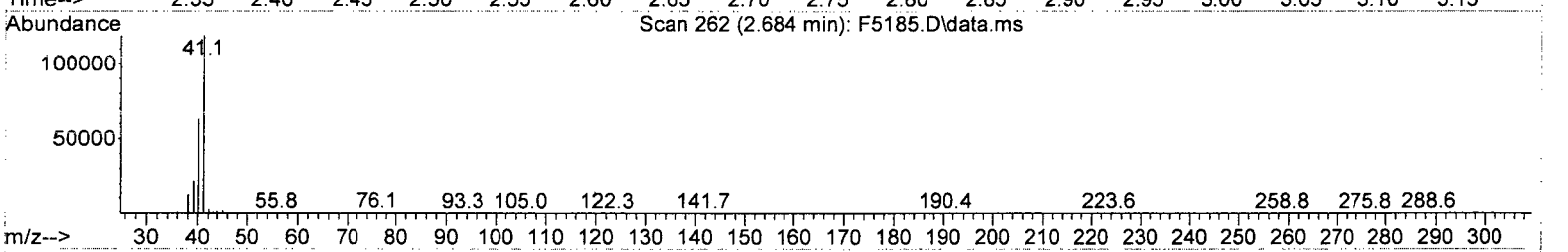
response 147545

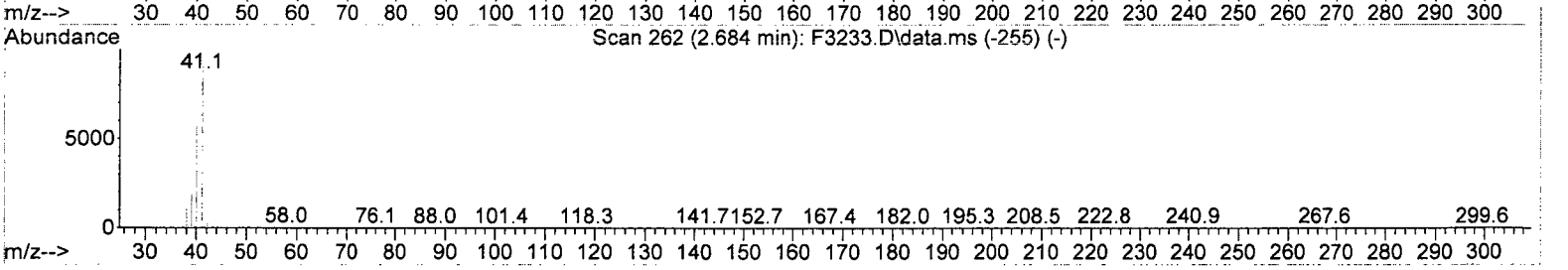
Ion	Exp%	Act%
40.10	100	100
41.10	176.40	188.23
39.10	34.00	34.42
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 12:23:58 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration







TIC: F5185.D\data.ms

(19) Acetonitrile

2.684min (-0.000) 80.17 ug/L m

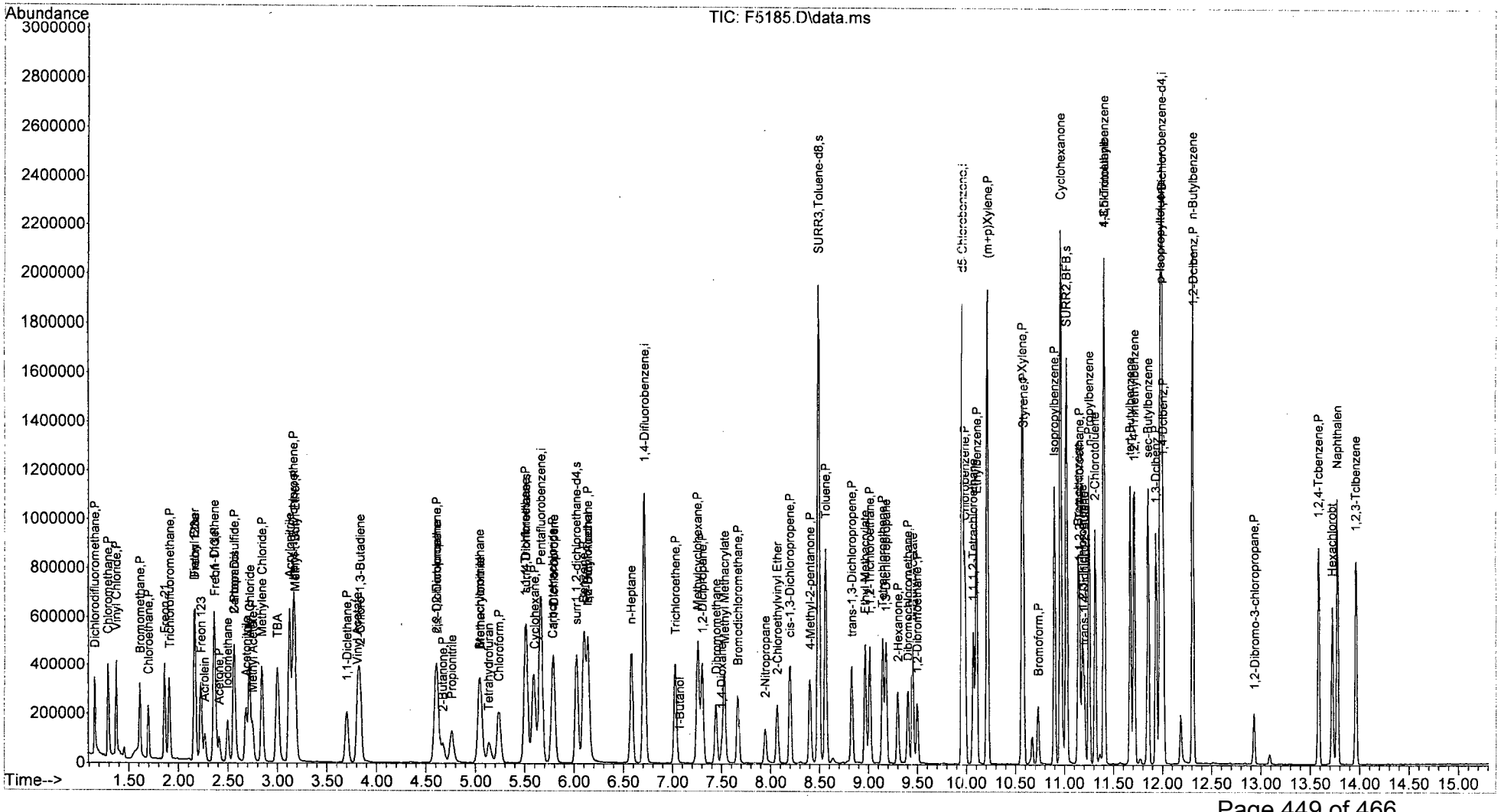
response 114982

Ion	Exp%	Act%
40.10	100	100
41.10	176.40	188.23
39.10	34.00	34.42
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa10\data\122115\
Data File : F5185.D
Acq On : 21 Dec 2015 12:09 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 21 12:42:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1516065-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	**20.4**		1.0	0.36	1	NA	12/22/15 16:29		477582	
1,1,2,2-Tetrachloroethane	**20.7**		1.0	0.25	1	NA	12/22/15 16:29		477582	
1,1,2-Trichloroethane	**21.4**		1.0	0.34	1	NA	12/22/15 16:29		477582	
1,1,2-Trichloro-1,2,2-trifluoroethane	**19.2**		1.0	0.31	1	NA	12/22/15 16:29		477582	
1,1-Dichloroethane (1,1-DCA)	**22.5**		1.0	0.20	1	NA	12/22/15 16:29		477582	
1,1-Dichloroethene (1,1-DCE)	**23.4**		1.0	0.57	1	NA	12/22/15 16:29		477582	
1,2,3-Trichlorobenzene	**16.8**		1.0	0.82	1	NA	12/22/15 16:29		477582	
1,2,4-Trichlorobenzene	**17.9**		1.0	0.23	1	NA	12/22/15 16:29		477582	
1,2-Dibromo-3-chloropropane (DBCP)	**21.5**		2.0	0.74	1	NA	12/22/15 16:29		477582	
1,2-Dibromoethane	**22.9**		1.0	0.24	1	NA	12/22/15 16:29		477582	
1,2-Dichlorobenzene	**19.2**		1.0	0.21	1	NA	12/22/15 16:29		477582	
1,2-Dichloroethane	**20.5**		1.0	0.36	1	NA	12/22/15 16:29		477582	
1,2-Dichloropropane	**21.4**		1.0	0.20	1	NA	12/22/15 16:29		477582	
1,3-Dichlorobenzene	**19.5**		1.0	0.20	1	NA	12/22/15 16:29		477582	
1,4-Dichlorobenzene	**19.7**		1.0	0.20	1	NA	12/22/15 16:29		477582	
1,4-Dioxane	**335**		40	20	1	NA	12/22/15 16:29		477582	
2-Butanone (MEK)	**19.4**		5.0	0.81	1	NA	12/22/15 16:29		477582	
2-Hexanone	**17.2**		5.0	1.7	1	NA	12/22/15 16:29		477582	
4-Methyl-2-pentanone	**17.7**		5.0	0.67	1	NA	12/22/15 16:29		477582	
Acetone	**20.4**		5.0	1.3	1	NA	12/22/15 16:29		477582	
Benzene	**21.1**		1.0	0.20	1	NA	12/22/15 16:29		477582	
Bromochloromethane	**20.9**		1.0	0.32	1	NA	12/22/15 16:29		477582	
Bromodichloromethane	**21.6**		1.0	0.32	1	NA	12/22/15 16:29		477582	
Bromoform	**21.6**		1.0	0.42	1	NA	12/22/15 16:29		477582	
Bromomethane	**17.0**		1.0	0.29	1	NA	12/22/15 16:29		477582	
Carbon Disulfide	**22.2**		1.0	0.22	1	NA	12/22/15 16:29		477582	
Carbon Tetrachloride	**19.0**		1.0	0.45	1	NA	12/22/15 16:29		477582	
Chlorobenzene	**19.0**		1.0	0.29	1	NA	12/22/15 16:29		477582	
Chloroethane	**23.6**		1.0	0.24	1	NA	12/22/15 16:29		477582	
Chloroform	**21.6**		1.0	0.25	1	NA	12/22/15 16:29		477582	
Chloromethane	**20.6**		1.0	0.21	1	NA	12/22/15 16:29		477582	
Cyclohexane	**19.4**		1.0	0.25	1	NA	12/22/15 16:29		477582	
Dibromochloromethane	**22.4**		1.0	0.31	1	NA	12/22/15 16:29		477582	
Dichlorodifluoromethane (CFC 12)	**21.2**		1.0	0.46	1	NA	12/22/15 16:29		477582	
Dichloromethane	**21.5**		1.0	0.60	1	NA	12/22/15 16:29		477582	
Ethylbenzene	**19.0**		1.0	0.20	1	NA	12/22/15 16:29		477582	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1516065-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**16.9**		1.0	0.20	1	NA	12/22/15 16:29		477582	
Methyl Acetate	**19.1**		2.0	0.43	1	NA	12/22/15 16:29		477582	
Methyl tert-Butyl Ether	**20.6**		1.0	0.29	1	NA	12/22/15 16:29		477582	
Methylcyclohexane	**21.6**		1.0	0.27	1	NA	12/22/15 16:29		477582	
Styrene	**18.2**		1.0	0.20	1	NA	12/22/15 16:29		477582	
Tetrachloroethene (PCE)	**17.4**		1.0	0.30	1	NA	12/22/15 16:29		477582	
Toluene	**19.8**		1.0	0.20	1	NA	12/22/15 16:29		477582	
Trichloroethene (TCE)	**19.7**		1.0	0.22	1	NA	12/22/15 16:29		477582	
Trichlorofluoromethane (CFC 11)	**22.0**		1.0	0.20	1	NA	12/22/15 16:29		477582	
Vinyl Chloride	**21.4**		1.0	0.32	1	NA	12/22/15 16:29		477582	
cis-1,2-Dichloroethene	**22.1**		1.0	0.30	1	NA	12/22/15 16:29		477582	
cis-1,3-Dichloropropene	**22.4**		1.0	0.24	1	NA	12/22/15 16:29		477582	
m,p-Xylenes	**35.8**		2.0	0.33	1	NA	12/22/15 16:29		477582	
o-Xylene	**17.8**		1.0	0.20	1	NA	12/22/15 16:29		477582	
trans-1,2-Dichloroethene	**21.7**		1.0	0.33	1	NA	12/22/15 16:29		477582	
trans-1,3-Dichloropropene	**23.5**		1.0	0.20	1	NA	12/22/15 16:29		477582	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	12/22/15 16:29	
Dibromofluoromethane	105	89-119	12/22/15 16:29	
Toluene-d8	104	87-121	12/22/15 16:29	

Data Path : I:\ACQUDATA\MSVOA10\DATA\122215\
Data File : F5222.D
Acq On : 22 Dec 2015 4:29 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 16:44:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FV 12/22/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.665	168	610981	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.714	114	920431	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.957	117	819119	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	420794	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	5.513	113	297362	52.66	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.32%			
46) surr1,1,2-dichloroetha...	6.031	65	383264	50.47	ug/L	0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 100.94%			
64) SURR3,Toluene-d8	8.488	98	1095444	52.23	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 104.46%			
69) SURR2,BFB	11.018	95	421167	50.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 100.58%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.154	85	186382	21.21	ug/L	96
3) Chloromethane	1.288	50	302471	20.55	ug/L	99
4) Vinyl Chloride	1.373	62	218752	21.44	ug/L	94
5) Bromomethane	1.611	94	79041	17.03	ug/L	95
6) Chloroethane	1.697	64	119845	23.60	ug/L	94
7) Freon 21	1.861	67	278931	23.67	ug/L	92
8) Trichlorofluoromethane	1.910	101	192561	21.98	ug/L	99
9) Diethyl Ether	2.160	59	156240	22.04	ug/L	91
10) Freon 123a	2.166	67	162349	22.26	ug/L	94
11) Freon 123	2.227	83	165696	21.92	ug/L	96
12) Acrolein	2.264	56	83359	39.44	ug/L	93
13) 1,1-Diclethene	2.361	96	113682	23.40	ug/L	93
14) Freon 113	2.367	101	103907	19.15	ug/L	93
15) Acetone	2.410	43	112393	20.40	ug/L	93
16) 2-Propanol	2.568	45	367617	387.97	ug/L	99
17) Iodomethane	2.495	142	179729	25.19	ug/L	90
18) Carbon Disulfide	2.562	76	316080	22.20	ug/L	98
19) Acetonitrile	2.684	40	136597	101.30	ug/L	92
20) Allyl Chloride	2.715	76	56116	20.17	ug/L #	89
21) Methyl Acetate	2.745	43	215239	19.06	ug/L	96
22) Methylene Chloride	2.843	84	136757	21.53	ug/L	98
23) TBA	3.001	59	475931	410.63	ug/L	95
24) Acrylonitrile	3.123	53	555121	107.70	ug/L	96
25) Methyl-t-Butyl Ether	3.178	73	409116	20.63	ug/L	97
26) trans-1,2-Dichloroethene	3.160	96	119264	21.68	ug/L	92
27) 1,1-Diclethane	3.702	63	255740	22.45	ug/L	96
28) Vinyl Acetate	3.812	86	27089	21.70	ug/L #	90
30) 2-Chloro-1,3-Butadiene	3.830	53	277340	20.21	ug/L	93
32) 2,2-Dichloropropane	4.604	77	131242	21.92	ug/L	94
33) cis-1,2-Dichloroethene	4.617	96	136624	22.09	ug/L	98
34) 2-Butanone	4.672	43	152073	19.44	ug/L	97
35) Propionitrile	4.763	54	225107	107.75	ug/L	98
36) Bromochloromethane	5.043	130	86583	20.86	ug/L	91
37) Methacrylonitrile	5.056	67	80906	21.38	ug/L	99

Data Path : I:\ACQUDATA\MSVOA10\DATA\122215\
Data File : F5222.D
Acq On : 22 Dec 2015 4:29 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 16:44:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
38) Tetrahydrofuran	5.141	42	102802	20.25	ug/L		89
39) Chloroform	5.239	83	221195	21.63	ug/L		97
40) 1,1,1-Trichloroethane	5.507	97	157588	20.36	ug/L		94
42) Cyclohexane	5.592	41	189617	19.39	ug/L		97
44) Carbontetrachloride	5.781	121	39723	18.98	ug/L		100
45) 1,1-Dichloropropene	5.793	75	166175	20.69	ug/L		97
47) Benzene	6.104	78	516520	21.05	ug/L		98
48) 1,2-Dichloroethane	6.141	62	213355	20.47	ug/L		97
49) Iso-Butyl Alcohol	6.141	43	285308	426.09	ug/L		99
51) n-Heptane	6.580	43	228157	17.42	ug/L		97
52) 1-Butanol	7.116	56	331	24.51	ug/L		91
53) Trichloroethene	7.031	130	124118	19.67	ug/L		97
54) Methylcyclohexane	7.256	55	237121	21.60	ug/L		97
55) 1,2-Diclpropane	7.305	63	154720	21.39	ug/L		97
56) Dibromomethane	7.445	93	86079	21.86	ug/L		85
57) 1,4-Dioxane	7.506	88	52562	335.07	ug/L		93
58) Methyl Methacrylate	7.531	69	116029	20.43	ug/L	#	87
59) Bromodichloromethane	7.665	83	156237	21.64	ug/L		96
60) 2-Nitropropane	7.945	41	79838	51.70	ug/L		99
61) 2-Chloroethylvinyl Ether	8.067	63	84786	14.95	ug/L		91
62) cis-1,3-Dichloropropene	8.195	75	194830	22.35	ug/L		97
63) 4-Methyl-2-pentanone	8.403	43	271005	17.66	ug/L		96
65) Toluene	8.561	91	499279	19.81	ug/L		98
66) trans-1,3-Dichloropropene	8.829	75	166198	23.53	ug/L		96
67) Ethyl Methacrylate	8.963	69	198195	23.04	ug/L		99
68) 1,1,2-Trichloroethane	9.012	97	126172	21.38	ug/L		93
71) Tetrachloroethene	9.140	164	88039	17.38	ug/L		97
72) 2-Hexanone	9.293	43	200725	17.24	ug/L		92
73) 1,3-Dichloropropane	9.177	76	222717	21.75	ug/L		99
74) Dibromochloromethane	9.402	129	121318	22.42	ug/L		97
75) N-Butyl Acetate	9.451	43	372114	18.97	ug/L		99
76) 1,2-Dibromoethane	9.494	107	131019	22.92	ug/L		99
77) 3-Chlorobenzotrifluoride	10.000	180	210994	21.47	ug/L		96
78) Chlorobenzene	9.982	112	327123	18.95	ug/L		96
79) 4-Chlorobenzotrifluoride	10.055	180	189265	22.63	ug/L		96
80) 1,1,1,2-Tetrachloroethane	10.067	131	109036	20.23	ug/L		95
81) Ethylbenzene	10.097	106	166006	19.03	ug/L		98
82) (m+p)Xylene	10.213	106	399388	35.80	ug/L		95
83) o-Xylene	10.567	106	197306	17.83	ug/L		93
84) Styrene	10.579	104	347602	18.24	ug/L		98
85) Bromoform	10.725	173	83263	21.64	ug/L		98
86) 2-Chlorobenzotrifluoride	10.805	180	199693	20.50	ug/L		97
87) Isopropylbenzene	10.896	105	486728	16.85	ug/L		98
88) Cyclohexanone	10.957	55	837579	442.71	ug/L		91
89) trans-1,4-Dichloro-2-B...	11.201	53	61001	19.48	ug/L		92
91) 1,1,2,2-Tetrachloroethane	11.152	83	176252	20.71	ug/L		96
92) Bromobenzene	11.140	156	142775	20.23	ug/L		99
93) 1,2,3-Trichloropropane	11.182	110	58369	21.15	ug/L	#	88
94) n-Propylbenzene	11.250	91	592976	18.84	ug/L		99
95) 2-Chlorotoluene	11.311	91	357386	19.60	ug/L		98
96) 3-Chlorotoluene	11.365	91	440872	22.96	ug/L		99

Data Path : I:\ACQUDATA\MSVOA10\DATA\122215\
Data File : F5222.D
Acq On : 22 Dec 2015 4:29 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 16:44:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

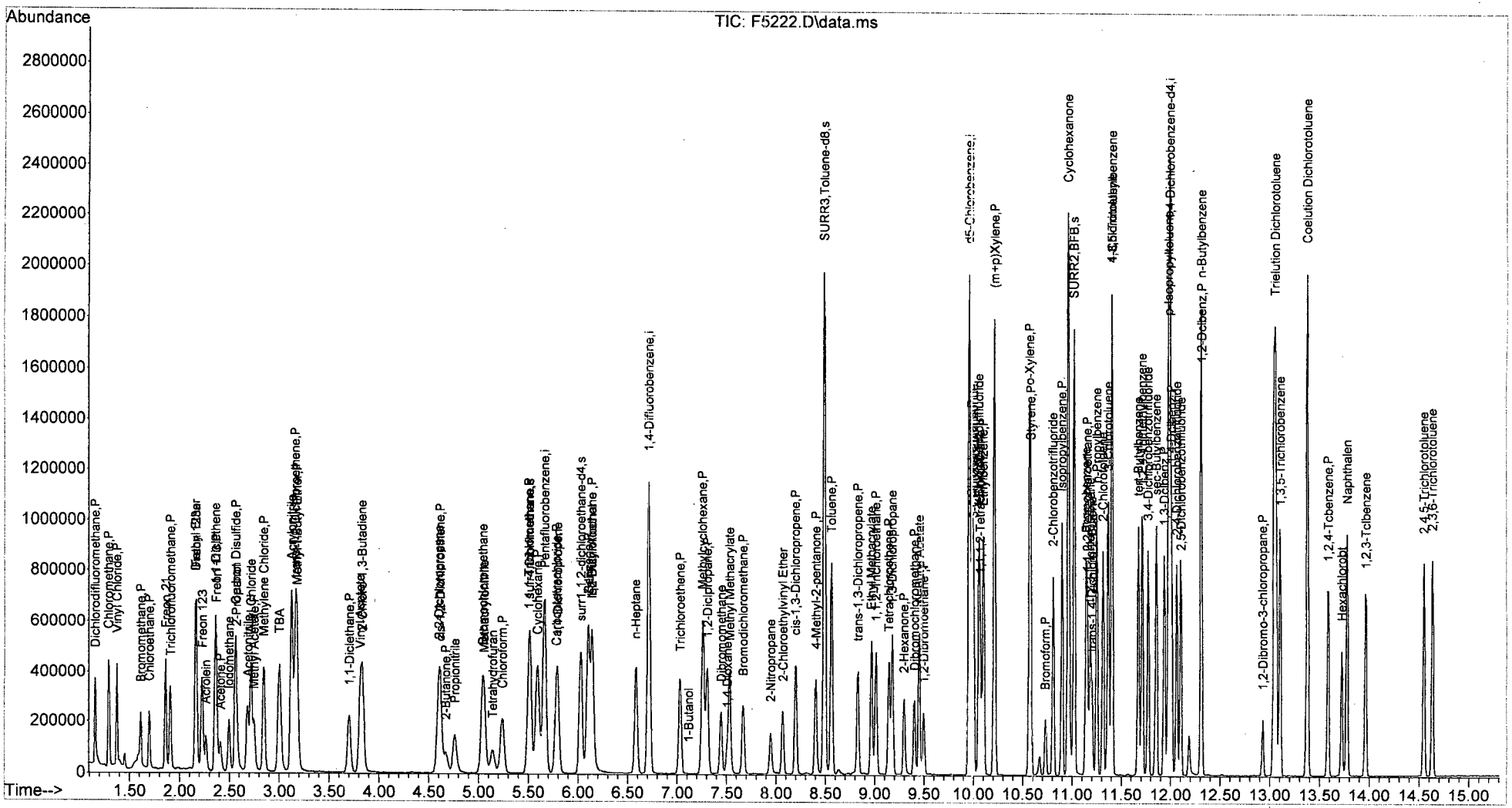
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	11.402	91	414422	19.10	ug/L	93
98)	1,3,5-Trimethylbenzene	11.402	105	404889	18.40	ug/L	95
99)	tert-Butylbenzene	11.670	119	344820	17.20	ug/L	98
100)	1,2,4-Trimethylbenzene	11.707	105	426778	18.75	ug/L	99
101)	3,4-Dichlorobenzotrifl...	11.768	214	160530	23.00	ug/L	96
102)	sec-Butylbenzene	11.853	105	506796	17.63	ug/L	97
103)	p-Isopropyltoluene	11.975	119	421247	18.04	ug/L	98
104)	1,3-Dclbenz	11.932	146	261084	19.53	ug/L	97
105)	1,4-Dclbenz	12.006	146	266965	19.68	ug/L	96
106)	2,4-Dichlorobenzotrifl...	12.060	214	153732	24.47	ug/L	93
107)	2,5-Dichlorobenzotrifl...	12.103	214	173360	24.09	ug/L	94
108)	n-Butylbenzene	12.304	91	400810	18.43	ug/L	96
109)	1,2-Dclbenz	12.310	146	254794	19.23	ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.926	157	38827	21.52	ug/L	94
111)	Trielution Dichlorotol...	13.048	125	846801	69.45	ug/L	100
112)	1,3,5-Trichlorobenzene	13.103	180	242120	22.68	ug/L	97
113)	Coelution Dichlorotoluene	13.371	125	624025	45.72	ug/L	95
114)	1,2,4-Tcbenzene	13.584	180	183131	17.94	ug/L	100
115)	Hexachlorobt	13.719	225	69471	15.49	ug/L	97
116)	Naphthalen	13.773	128	564827	18.45	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	175896	16.76	ug/L	97
118)	2,4,5-Trichlorotoluene	14.548	159	176666	22.29	ug/L	98
119)	2,3,6-Trichlorotoluene	14.633	159	157682	21.87	ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA10\DATA\122215\
Data File : F5222.D
Acq On : 22 Dec 2015 4:29 pm
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 22 16:44:19 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1516080-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
1,1,1-Trichloroethane (TCA)	**20.6**		1.0	0.36	1	NA	12/23/15 10:35		477634	
1,1,2,2-Tetrachloroethane	**20.5**		1.0	0.25	1	NA	12/23/15 10:35		477634	
1,1,2-Trichloroethane	**19.8**		1.0	0.34	1	NA	12/23/15 10:35		477634	
1,1,2-Trichloro-1,2,2-trifluoroethane	**20.5**		1.0	0.31	1	NA	12/23/15 10:35		477634	
1,1-Dichloroethane (1,1-DCA)	**22.2**		1.0	0.20	1	NA	12/23/15 10:35		477634	
1,1-Dichloroethene (1,1-DCE)	**22.5**		1.0	0.57	1	NA	12/23/15 10:35		477634	
1,2,3-Trichlorobenzene	**19.8**		1.0	0.82	1	NA	12/23/15 10:35		477634	
1,2,4-Trichlorobenzene	**21.2**		1.0	0.23	1	NA	12/23/15 10:35		477634	
1,2-Dibromo-3-chloropropane (DBCP)	**20.7**		2.0	0.74	1	NA	12/23/15 10:35		477634	
1,2-Dibromoethane	**23.0**		1.0	0.24	1	NA	12/23/15 10:35		477634	
1,2-Dichlorobenzene	**21.3**		1.0	0.21	1	NA	12/23/15 10:35		477634	
1,2-Dichloroethane	**19.9**		1.0	0.36	1	NA	12/23/15 10:35		477634	
1,2-Dichloropropane	**21.3**		1.0	0.20	1	NA	12/23/15 10:35		477634	
1,3-Dichlorobenzene	**21.3**		1.0	0.20	1	NA	12/23/15 10:35		477634	
1,4-Dichlorobenzene	**21.5**		1.0	0.20	1	NA	12/23/15 10:35		477634	
1,4-Dioxane	**318**		40	20	1	NA	12/23/15 10:35		477634	
2-Butanone (MEK)	**18.6**		5.0	0.81	1	NA	12/23/15 10:35		477634	
2-Hexanone	**17.2**		5.0	1.7	1	NA	12/23/15 10:35		477634	
4-Methyl-2-pentanone	**17.8**		5.0	0.67	1	NA	12/23/15 10:35		477634	
Acetone	**19.6**		5.0	1.3	1	NA	12/23/15 10:35		477634	
Benzene	**21.0**		1.0	0.20	1	NA	12/23/15 10:35		477634	
Bromochloromethane	**20.2**		1.0	0.32	1	NA	12/23/15 10:35		477634	
Bromodichloromethane	**20.7**		1.0	0.32	1	NA	12/23/15 10:35		477634	
Bromoform	**21.0**		1.0	0.42	1	NA	12/23/15 10:35		477634	
Bromomethane	**20.5**		1.0	0.29	1	NA	12/23/15 10:35		477634	
Carbon Disulfide	**19.3**		1.0	0.22	1	NA	12/23/15 10:35		477634	
Carbon Tetrachloride	**18.9**		1.0	0.45	1	NA	12/23/15 10:35		477634	
Chlorobenzene	**20.2**		1.0	0.29	1	NA	12/23/15 10:35		477634	
Chloroethane	**22.1**		1.0	0.24	1	NA	12/23/15 10:35		477634	
Chloroform	**20.8**		1.0	0.25	1	NA	12/23/15 10:35		477634	
Chloromethane	**20.9**		1.0	0.21	1	NA	12/23/15 10:35		477634	
Cyclohexane	**18.5**		1.0	0.25	1	NA	12/23/15 10:35		477634	
Dibromochloromethane	**21.8**		1.0	0.31	1	NA	12/23/15 10:35		477634	
Dichlorodifluoromethane (CFC 12)	**20.2**		1.0	0.46	1	NA	12/23/15 10:35		477634	
Dichloromethane	**21.5**		1.0	0.60	1	NA	12/23/15 10:35		477634	
Ethylbenzene	**20.4**		1.0	0.20	1	NA	12/23/15 10:35		477634	

Client:	Labella Associates, PC	**Service Request:**	R1510962
Project:	Roblin/Alumax Wells/2160148	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	RQ1516080-02	**Basis:**	NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Isopropylbenzene (Cumene)	**19.4**		1.0	0.20	1	NA	12/23/15 10:35		477634	
Methyl Acetate	**18.7**		2.0	0.43	1	NA	12/23/15 10:35		477634	
Methyl tert-Butyl Ether	**19.6**		1.0	0.29	1	NA	12/23/15 10:35		477634	
Methylcyclohexane	**19.4**		1.0	0.27	1	NA	12/23/15 10:35		477634	
Styrene	**19.8**		1.0	0.20	1	NA	12/23/15 10:35		477634	
Tetrachloroethene (PCE)	**19.6**		1.0	0.30	1	NA	12/23/15 10:35		477634	
Toluene	**20.4**		1.0	0.20	1	NA	12/23/15 10:35		477634	
Trichloroethene (TCE)	**21.1**		1.0	0.22	1	NA	12/23/15 10:35		477634	
Trichlorofluoromethane (CFC 11)	**21.7**		1.0	0.20	1	NA	12/23/15 10:35		477634	
Vinyl Chloride	**21.0**		1.0	0.32	1	NA	12/23/15 10:35		477634	
cis-1,2-Dichloroethene	**21.5**		1.0	0.30	1	NA	12/23/15 10:35		477634	
cis-1,3-Dichloropropene	**21.8**		1.0	0.24	1	NA	12/23/15 10:35		477634	
m,p-Xylenes	**39.5**		2.0	0.33	1	NA	12/23/15 10:35		477634	
o-Xylene	**19.3**		1.0	0.20	1	NA	12/23/15 10:35		477634	
trans-1,2-Dichloroethene	**21.0**		1.0	0.33	1	NA	12/23/15 10:35		477634	
trans-1,3-Dichloropropene	**22.5**		1.0	0.20	1	NA	12/23/15 10:35		477634	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85-122	12/23/15 10:35	
Dibromofluoromethane	105	89-119	12/23/15 10:35	
Toluene-d8	103	87-121	12/23/15 10:35	

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA10\DATA\122315\
Data File : F5252.D
Acq On : 23 Dec 2015 10:35 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 10:50:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

FD 12/26/15

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Pentafluorobenzene	5.665	168	640610	50.00	ug/L		0.00
41) 1,4-Difluorobenzene	6.714	114	954823	50.00	ug/L		0.00
70) d5-Chlorobenzene	9.957	117	836850	50.00	ug/L		0.00
90) 1,4-Dichlorobenzene-d4	11.987	152	430128	50.00	ug/L		0.00
System Monitoring Compounds							
43) surr4,Dibrflmethane	5.513	113	306566	52.34	ug/L		0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 104.68%				
46) surr1,1,2-dichloroetha...	6.025	65	390431	49.56	ug/L		0.00
Spiked Amount 50.000	Range 73 - 125		Recovery = 99.12%				
64) SURR3,Toluene-d8	8.488	98	1122658	51.60	ug/L		0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 103.20%				
69) SURR2,BFB	11.018	95	439793	50.62	ug/L		0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 101.24%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.154	85	186072	20.20	ug/L		97
3) Chloromethane	1.288	50	322163	20.87	ug/L		98
4) Vinyl Chloride	1.373	62	224483	20.98	ug/L		96
5) Bromomethane	1.611	94	98356	20.50	ug/L		100
6) Chloroethane	1.696	64	117521	22.07	ug/L		98
7) Freon 21	1.861	67	282115	22.83	ug/L		96
8) Trichlorofluoromethane	1.910	101	199069	21.68	ug/L		99
9) Diethyl Ether	2.160	59	162936	21.92	ug/L		100
10) Freon 123a	2.166	67	169481	22.17	ug/L		95
11) Freon 123	2.227	83	171888	21.69	ug/L		96
12) Acrolein	2.263	56	86954	39.24	ug/L		98
13) 1,1-Diclethene	2.361	96	114682	22.51	ug/L		91
14) Freon 113	2.367	101	116388	20.46	ug/L		93
15) Acetone	2.410	43	113311	19.62	ug/L		97
16) 2-Propanol	2.562	45	343829	349.14	ug/L		98
17) Iodomethane	2.495	142	111814	16.56	ug/L		95
18) Carbon Disulfide	2.556	76	288274	19.31	ug/L		99
19) Acetonitrile	2.678	40	136228	96.35	ug/L		92
20) Allyl Chloride	2.714	76	62312	21.36	ug/L	#	94
21) Methyl Acetate	2.751	43	221233	18.68	ug/L		97
22) Methylene Chloride	2.842	84	143378	21.53	ug/L		88
23) TBA	3.001	59	438591	364.81	ug/L		88
24) Acrylonitrile	3.123	53	527049	97.53	ug/L		99
25) Methyl-t-Butyl Ether	3.172	73	408214	19.63	ug/L		96
26) trans-1,2-Dichloroethene	3.159	96	121192	21.01	ug/L		94
27) 1,1-Diclethane	3.702	63	265044	22.20	ug/L		98
28) Vinyl Acetate	3.806	86	26643	20.41	ug/L	#	61
30) 2-Chloro-1,3-Butadiene	3.836	53	241284	16.77	ug/L		100
32) 2,2-Dichloropropane	4.604	77	142406	22.69	ug/L		91
33) cis-1,2-Dichloroethene	4.616	96	139379	21.50	ug/L		91
34) 2-Butanone	4.671	43	152470	18.59	ug/L		95
35) Propionitrile	4.763	54	207519	94.73	ug/L		97
36) Bromochloromethane	5.043	130	88083	20.24	ug/L		90
37) Methacrylonitrile	5.062	67	77131	19.44	ug/L		90

Data Path : I:\ACQUDATA\MSVOA10\DATA\122315\
Data File : F5252.D
Acq On : 23 Dec 2015 10:35 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 10:50:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	5.135	42	99279	18.65	ug/L	91
39) Chloroform	5.238	83	222601	20.76	ug/L	96
40) 1,1,1-Trichloroethane	5.513	97	167374	20.62	ug/L	93
42) Cyclohexane	5.592	41	187267	18.46	ug/L	94
44) Carbontetrachloride	5.775	121	41085	18.93	ug/L	90
45) 1,1-Dichloropropene	5.793	75	178615	21.44	ug/L	97
47) Benzene	6.098	78	533366	20.96	ug/L	98
48) 1,2-Dichloroethane	6.147	62	214699	19.86	ug/L	97
49) Iso-Butyl Alcohol	6.141	43	263300	384.06	ug/L	99
51) n-Heptane	6.586	43	306229	22.54	ug/L	96
52) 1-Butanol	7.086	56	998	26.71	ug/L	90
53) Trichloroethene	7.031	130	138207	21.12	ug/L	94
54) Methylcyclohexane	7.262	55	220534	19.36	ug/L	98
55) 1,2-Diclpropane	7.299	63	159695	21.29	ug/L	97
56) Dibromomethane	7.439	93	83027	20.32	ug/L	88
57) 1,4-Dioxane	7.506	88	51773	318.15	ug/L	85
58) Methyl Methacrylate	7.531	69	111208	18.87	ug/L	91
59) Bromodichloromethane	7.665	83	154849	20.67	ug/L	97
60) 2-Nitropropane	7.945	41	78287	49.14	ug/L	84
61) 2-Chloroethylvinyl Ether	8.067	63	83923	14.27	ug/L	99
62) cis-1,3-Dichloropropene	8.195	75	197396	21.83	ug/L	96
63) 4-Methyl-2-pentanone	8.402	43	283779	17.82	ug/L	100
65) Toluene	8.561	91	532666	20.38	ug/L	99
66) trans-1,3-Dichloropropene	8.829	75	164778	22.54	ug/L	99
67) Ethyl Methacrylate	8.963	69	197683	22.20	ug/L	95
68) 1,1,2-Trichloroethane	9.012	97	121170	19.79	ug/L	92
71) Tetrachloroethene	9.146	164	101436	19.60	ug/L	95
72) 2-Hexanone	9.299	43	204228	17.17	ug/L	95
73) 1,3-Dichloropropane	9.177	76	224855	21.50	ug/L	97
74) Dibromochloromethane	9.402	129	120432	21.81	ug/L	97
75) N-Butyl Acetate	9.451	43	360129	18.01	ug/L	97
76) 1,2-Dibromoethane	9.494	107	134407	23.01	ug/L	92
77) 3-Chlorobenzotrifluoride	10.000	180	185342	18.46	ug/L	98
78) Chlorobenzene	9.981	112	356453	20.21	ug/L	97
79) 4-Chlorobenzotrifluoride	10.054	180	170482	19.96	ug/L	95
80) 1,1,1,2-Tetrachloroethane	10.067	131	116480	21.13	ug/L	97
81) Ethylbenzene	10.103	106	182027	20.42	ug/L	96
82) (m+p)Xylene	10.213	106	450099	39.49	ug/L	95
83) o-Xylene	10.567	106	218402	19.32	ug/L	96
84) Styrene	10.579	104	385940	19.83	ug/L	98
85) Bromoform	10.731	173	82548	21.04	ug/L	98
86) 2-Chlorobenzotrifluoride	10.804	180	180055	18.09	ug/L	94
87) Isopropylbenzene	10.896	105	572065	19.39	ug/L	99
88) Cyclohexanone	10.957	55	828226	428.49	ug/L	94
89) trans-1,4-Dichloro-2-B...	11.201	53	63234	19.75	ug/L	93
91) 1,1,2,2-Tetrachloroethane	11.152	83	178383	20.50	ug/L	98
92) Bromobenzene	11.140	156	152790	21.18	ug/L	96
93) 1,2,3-Trichloropropane	11.182	110	53608	19.00	ug/L	98
94) n-Propylbenzene	11.249	91	697069	21.66	ug/L	97
95) 2-Chlorotoluene	11.310	91	401532	21.54	ug/L	99
96) 3-Chlorotoluene	11.365	91	410307	20.90	ug/L	96

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA10\DATA\122315\
Data File : F5252.D
Acq On : 23 Dec 2015 10:35 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 10:50:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration

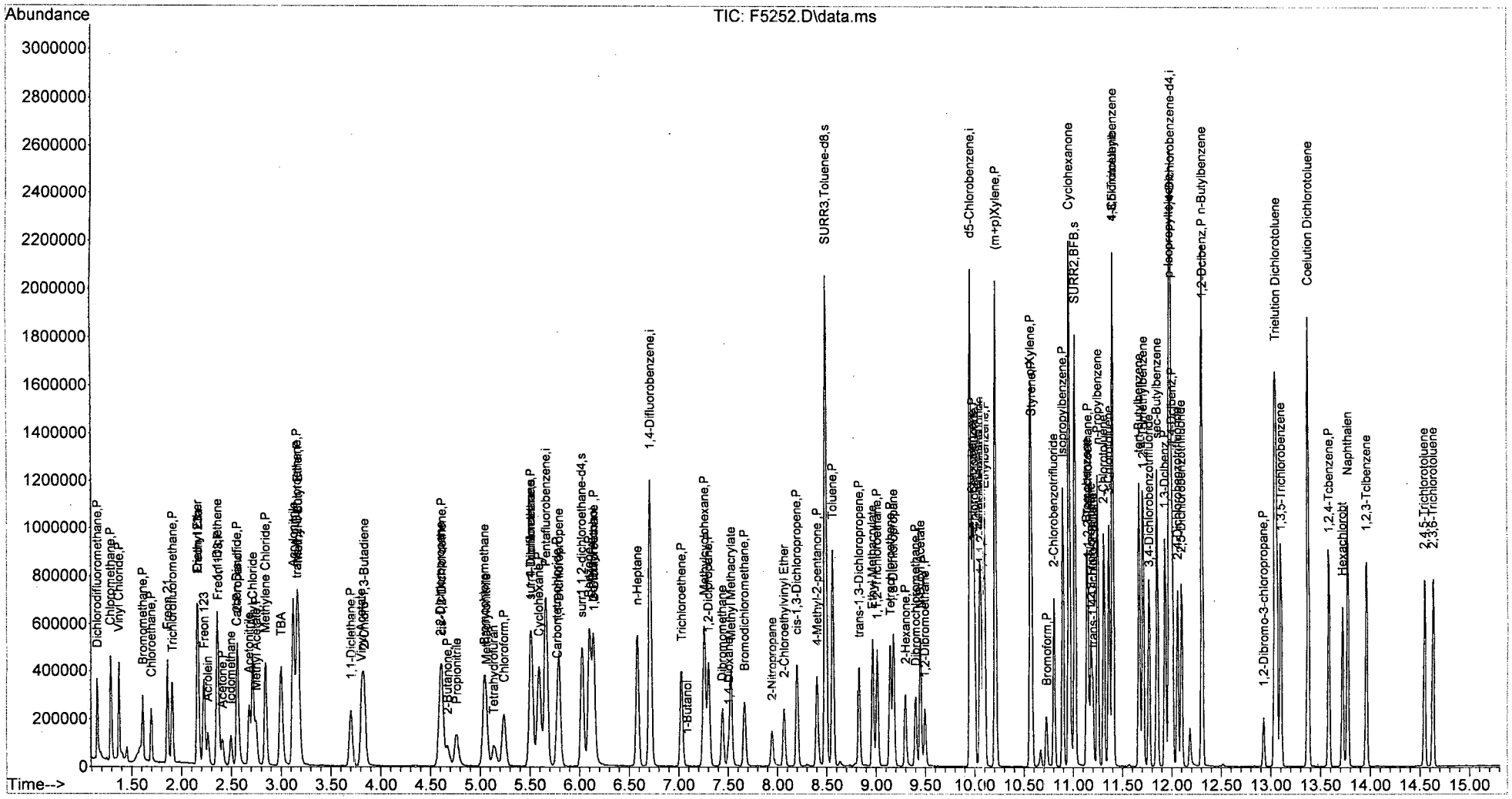
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97)	4-Chlorotoluene	11.402	91	475357	21.43	ug/L	94
98)	1,3,5-Trimethylbenzene	11.402	105	473680	21.06	ug/L	98
99)	tert-Butylbenzene	11.670	119	415913	20.29	ug/L	97
100)	1,2,4-Trimethylbenzene	11.713	105	498899	21.44	ug/L	100
101)	3,4-Dichlorobenzotrifl...	11.774	214	153220	21.48	ug/L	96
102)	sec-Butylbenzene	11.853	105	626372	21.32	ug/L	99
103)	p-Isopropyltoluene	11.975	119	519277	21.75	ug/L	99
104)	1,3-Dclbenz	11.932	146	291485	21.33	ug/L	99
105)	1,4-Dclbenz	12.005	146	297912	21.48	ug/L	95
106)	2,4-Dichlorobenzotrifl...	12.060	214	140255	21.84	ug/L	92
107)	2,5-Dichlorobenzotrifl...	12.097	214	156352	21.25	ug/L	99
108)	n-Butylbenzene	12.304	91	516572	23.23	ug/L	95
109)	1,2-Dclbenz	12.310	146	288105	21.28	ug/L	96
110)	1,2-Dibromo-3-chloropr...	12.926	157	38043	20.71	ug/L	95
111)	Trielution Dichlorotol...	13.048	125	805228	64.60	ug/L	97
112)	1,3,5-Trichlorobenzene	13.103	180	228722	20.96	ug/L	99
113)	Coelution Dichlorotoluene	13.371	125	591444	42.39	ug/L	94
114)	1,2,4-Tcbenzene	13.584	180	221393	21.21	ug/L	98
115)	Hexachlorobt	13.718	225	100892	22.01	ug/L	94
116)	Naphthalen	13.773	128	613013	19.58	ug/L	98
117)	1,2,3-Tclbenzene	13.962	180	212781	19.83	ug/L	97
118)	2,4,5-Trichlorotoluene	14.541	159	165736	20.45	ug/L	93
119)	2,3,6-Trichlorotoluene	14.633	159	151875	20.61	ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : I:\ACQUDATA\MSVOA10\DATA\122315\
Data File : F5252.D
Acq On : 23 Dec 2015 10:35 am
Operator : F. Naegler
Sample : LCS Inst : MSVOA10
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 23 10:50:18 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W101915.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Tue Oct 20 12:01:30 2015
Response via : Initial Calibration



Analysis: 8260C
Analyst: E Naegler
Tune Method: T101915.M
Date: 10/19/15
Data Path: j:\acqudata\msvoa\2\101915
Run Method: W101915.M
Instr. MS #10
LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F3225	Y	
1	TUNE								26	Y	
1	ICAL BLK								27	Y	
2	0.5 ppb Std								28	Y	
3	1.0								29	Y	
4	2.0								30	Y	
5	5.0								31	Y	
6	20								32	Y	
7	50								33	Y	
8	100								34	Y	
9	150								35	Y	
10	200								36	Y	
11	BLK								37	Y	
12	BLK								38	Y	
13	50 ppb ICV								39	Y	
14	BLK								40	Y	
15	BLK								41	Y	

WATER ICAL TABLE

CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200
1° T|G = 85159	10mL/1mL 5mL/5mL	10mL/5mL	20mL/5mL	50mL/5mL	2mL/5mL	5mL/5mL	10mL/5mL	15mL/5mL	20mL/5mL
1° HSL = 85020	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° Fr = 85160	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° HBO = 85089	↓	↓	↓	↓	↓	↓	↓	↓	↓
1° OCC = 85161	↓	↓	↓	↓	↓	↓	↓	↓	↓

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

Primary :
Primary :
Primary :
Primary :
Primary :

Fr Secondary 200 : 84751 - 12.5uL
T/G Secondary 500 : 85162 - 5uL
HSL Secondary : 85163 -
HBO Secondary : 85057 -
OCC Secondary : 85164 -
50mL (ICV)

Combined IS/Surr :
Surrogate 50 : 85142
Internal Std 50 : 85141

Analysis: 8260C | Analyst: F. Naegler | Tune Method: W1o1915.m

Date: 12/21/15 | Data Path: j:\acqudata\msvoa1o\122115 | Run Method: ↓

Instr. MS #10 | LIMS Run#: 477252

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								FS181	Y	
2	BLK								82	Y	
1	TUNE								83	Y	
1	CCV								84	Y	
2	LCS								85	Y	
3	MBLK								86	(N)	
4	MBLK								87	Y	RQ1515808-01
5	R1510837-005	1.0		[redacted]	66516	3	2	<2	88	Y	
6	↓ -004	2.5	20/50mL	↓	↓	↓	2	<2	89	Y	DL
7	R1510590-001	1.0		[redacted]	13663	4	1	<2	90	Y	
8	-005	1.0					1	<2	91	Y	
9	-002	1.0					1	<2	92	Y	
10	-004	50.0	1/50mL				1	<2	93	(N)	Rpt 1/5
11	↓ -004	5.0	10/50mL	↓	↓	↓	1	<2	94	Y	foamy!
12	R1511098-001	2.5	20/50mL	[redacted]	6693	2	1	<2	95	Y	
13	BLK								96	Y	
14	R1510962-012	1.0		[redacted]	8013	4	1	<2	97	(Y)	Rpt 1/10
15	-013	1.0					1	<2	98	(N)	Rpt 1/1 c/o
16	-001	1.0					1	<2	99	Y	
17	-002	1.0					1	<2	FS200	(Y)	Rpt 1/10
18	-003	1.0					1	<2	01	Y	
19	-004	1.0					1	<2	02	Y	
20	-005	20.0	2.5/50mL				1	<2	03	(N)	Rpt 1/1
21	-006	1.0					1	<2	04	Y	
22	-007	1.0					1	<2	05	Y	
23	-008	1.0					1	<2	06	(Y)	Rpt 1/10
24	-009	1.0					1	<2	07	Y	
25	-005MS	20.0	2.5/50mL				1	<2	08	(N)	Rpt 1/1
26	-005MSD	20.0	↓	↓	↓	↓	1	<2	09	(N)	↓
27	BLK								10	Y	
28	BLK								11	Y	

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 86613 - 5mL | 50mL

HSL Primary ↓ : 86114 - ↓ (CCV)

Fr Primary ↓ : 86557 - ↓

Primary :

Primary :

Fr Secondary 200 : 86324 - 5mL | 50mL

T/G Secondary 50.0 : 86758 - 2mL | (LCS)

HSL Secondary ↓ : 86718 - ↓ | -12.5mL -5mL ↓ | 50mL (SPK)

Secondary :

Secondary :

Combined IS/Surr — : —

Surrogate 50 : 86455

Internal Std 50 : 86454

Analysis: 8260C | Analyst: F. Naegler | Tune Method: W1019S.M

Date: 12/22/15 | Data Path: j:\acqudata\msvoa10\122215 | Run Method: ↓

Instr. MS#10 | LIMS Run#: 477582

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F5213	Y	
2	TUNE								14	Y	
1	CCV								15	(N)	Retune
2	BLK								16	–	
3	TUNE								17	(N)	adjust tune
4	TUNE								18	Y	
1	CCV								19	(N)	RT Shift
1	CCV								20	Y	
2	LCS								21	(N)	misprep
2	LCS								22	Y	
3	MBLK								23	(N)	
4	MBLK								24	Y	R1215160065-01
5	R1510962-013	1.0		[redacted]	8043	4	2	<2	25	Y	
6	-005	1.0					2	<2	26	Y	
7	-011	1.0					1	<2	27	Y	
8	-010	10.0	5/50mL				1	<2	28	(Y)	Rpt 1/25
9	-002	10.0					2	<2	29	Y	DL
10	-008	10.0					2	<2	30	Y	DL
11	-012	10.0					2	<2	31	Y	DL
12	BLK								32	Y	
13	R1510959-003	1.0		[redacted]	8855	2	1	<2	33	Y	
14	-004	1.0					1	<2	34	Y	
15	-012	1.0					1	<2	35	Y	
16	-001	10.0	5/50mL				1	<2	36	Y	
17	-003	2000.0	1/100mL → 2.5/50mL				1	<2	37	(N)	Rpt 1/1000
18	-005	100.0	5/50mL → 5/50mL				1	<2	38	Y	
19	-006	1.0					1	<2	39	(Y)	~~Rpt 1/2 EEFN 12/23/15~~
20	-007	10.0	5/50mL				1	<2	40	(N)	Rpt 1/10 clo?
21	-008	10.0	↓				1	<2	41	Y	
22	-009	50.0	1/50mL				1	<2	42	(N)	Rpt 1/20
23	-010	50.0	↓				1	<2	43	(N)	Rpt 1/20
24	-011	20.0	2.5/50mL				1	<2	44	(Y)	# cont on pg 61

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged Rpt 1/50

T/G Primary 500 : 86613 - 5mL/50mL

HSL Primary : 86866 -

Fr Primary : 86557 - (CCV)

OCC Primary : 86870 -

Primary :

Fr Secondary 200 : 86324 - 5mL

T/G Secondary 500 : 86758 - 2mL

HSL Secondary : 86718 - 1 / 50mL

OCC Secondary : 86871 - (LCS)

Secondary :

12.5mL - 5mL / 50mL (SPK)

Combined IS/Surr — : —

Surrogate 50 : 86455

Internal Std 50 : 86454

Analysis: 8260C | Analyst: F. Nagler | Tune Method: W10i915.M

Date: 12/22/15 Cont. | Data Path: j:\acqudata\msvoa10\122215 | Run Method: ↓

Instr.: MS #10 | LIMS Run#: 477582

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
25	R1510959-005MS	100.0	5/50mL→5/50mL	[redacted]	8855	2	1	<2	F5245	Y	
26	↓ -005MSD	100.0	↓	↓	↓	↓	1	<2	46	Y	
27	BLK								47	Y	
28	BLK								↓ 48	Y	

FN 12/22/15

All samples = 5 mL + 5 uL combined IS/Surr: 5 mL purged

Primary See pg 60
Primary
Primary
Primary
Primary

Secondary See pg 60
Secondary
Secondary
Secondary
Secondary

Combined IS/Surr —
Surrogate See pg. 60
Internal Std

Analysis: 8260C | Analyst: F. Naegler | Tune Method: W101915.M

Date: 12/23/15 | Data Path: j:\acqudata\msvoa 10\122315 | Run Method: ↓

Instr. MS #10 | LIMS Run#: 477634

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								F5249	Y	
2	TUNE								50	Y	
1	CCV								51	Y	
2	LCS								52	Y	
3	MBLK								53	(N)	
4	MBLK								54	(N)	
5	MBLK		1/10mL						55	Y	RQ1516080-01
6	R1510962-010	25.0	2/50mL	[redacted]	8043	4	2	<2	56	Y	DL
7	R1510959-002	1000.0	~~5/50mL~~ → 5/50mL	[redacted]	8855	2	1	<2	57	Y	
8	-007	10.0	per FV 12/24/15 5/50mL				2	<2	58	Y	
9	-009	20.0	2.5/50mL				2	<2	59	Y	
10	-010	20.0	↓				2	<2	60	Y	
11	-011	50.0	1/50mL				2	<2	61	Y	DL
12	R1508731-021	1.0		[redacted]	9866	2	1	<2	62	Y	
13	-023	1.0					1	<2	63	Y	
14	-030	1.0					1	<2	64	Y	
15	-031	1.0					1	<2	65	Y	
16	-032	1.0					1	<2	66	Y	
17	-035	1.0					1	<2	67	Y	
18	-037	1.0					1	<2	68	Y	
19	R1511006-006	1.0		[redacted]	9491	2	1	<2	69	~~X~~ Y	per FV 12/24/15
20	-001	1.0					1	<2	70	(N) Y	Rpt per FV 12/24/15
21	-003	50.0	1/50mL				1	<2	71	(N)	Rpt 1/25
22	-005	50.0	↓				1	<2	72	Y	
23	-002	50.0	↓				1	<2	73	Y	
24	-004	25.0	2/50mL				1	<2	74	(N)	Rpt 1/2
25	-004MS	25.0	↓				1	<2	75	(N)	↓
26	-004MSD	25.0	↓	↓	↓	↓	1	<2	76	(N)	↓
27	BLK								77		
28	BLK								78		
				FD 12/23/15							

All samples = 5 mL + 5 uL combined IS/Surr. 5 mL purged

T/G Primary 500 : 86613 - 5mL/50mL

HSL Primary ↓ : 86866 -

Fr Primary ↓ : 86557 - ↓ (CCV)

OCC Primary ↓ : 86870 -

Primary :

Fr Secondary 200 : 86324 - 5mL

T/G Secondary 500 : 86758 - 2mL

HSL Secondary ↓ : 86718 - ↓

OCC Secondary ↓ : 86871 - ↓

Secondary :

50mL (LCS) - 12.5mL - 5.0mL ↓ 50mL (SPK)

Combined IS/Surr — : ——

Surrogate 50 : 86455

Internal Std 50 : 86454