



CB&I
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August 11, 2015

Mr. Stanley Radon
Senior Engineering Geologist
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

**Subject: Off-Site System Performance Review
Textron Inc.
Wheatfield, New York
New York State Site No. 932052**

Dear Mr. Radon:

On behalf of Textron Inc. (Textron), CB&I Environmental & Infrastructure, Inc. (CB&I) has prepared the following assessment of the data collected as part the extended pilot shutdown of Extraction Well EW-5. Per the New York State Department of Environmental Conservation's (NYSDEC) electronic mail of July 22, 2013, Extraction Well EW-5 was taken off-line on September 5, 2013 as part of the evaluation regarding the ability of the three northernmost extraction wells to contain the prevailing southerly migration of impacted groundwater. Groundwater conditions at the site have been monitored and key well locations were sampled for volatile organic compounds (VOCs) bi-annually (April and October) since 2013 as part of this extended pilot study. The groundwater analytical data from the October 2014 event were presented in the *2014 Annual Summary and Site Maintenance and Monitoring Report*. The June 2015 groundwater analytical data are summarized in Table 1, and the complete analytical data packages are included as Attachment A.

Samples were collected from the Off-Site System extraction wells (EW-2, EW-3, EW-4, EW-5, and EW-6) on May 18, 2015; due to miscommunication with field staff, no sample was collected from Monitoring Well 93-03(1). Another groundwater sampling event was completed on June 20, 2015 from the Off-Site System extraction wells (EW-2, EW-3, EW-5, and EW-6) and Monitoring Well 93-03(1). Due to an inoperable pump, no sample could be collected from Extraction Well EW-4 during this event. The data from both sampling events are summarized on Table 1.

The absence of VOCs in Monitoring Well 93-03(1) further demonstrates that the modified groundwater extraction system is successfully holding the leading edge of the plume in the new northward position. Figure 1 illustrates the extent of the VOC plume as depicted in the annual summary reports submitted to the NYSDEC for 2011, 2012, 2013, and 2014. The leading edge of the plume for 2014 remains stable between Monitoring Well 93-03(1) and Extraction Well EW-6.

The October 2011 analytical data were used as a baseline for comparison, as this event was completed before either of the pilot studies. As shown below, all monitored locations (EW-2, EW-3, EW-4, EW-5, EW-6, and 93-03(1)) have demonstrated decreases in total VOC concentrations after Extraction Well EW-5 was taken offline.

Well Location	Decrease in VOC Concentration 2011 to 2015
EW-2	96 %
EW-3	30 %
EW-4	91 %
EW-5	9.6 %
EW-6	78 %
93-03(1)	100%

These results indicate that the pilot study has been successful—that three operational extraction wells not only provide hydraulic control but are capable of drawing the leading edge of the plume northward as has been requested by the NYSDEC. Based upon these results, Textron respectfully requests that Extraction Well EW-5 continue to remain offline. The next groundwater sampling event is scheduled for October 2015. The analytical and gauging results from these wells will be examined and the performance of the Off-Site System will be assessed and reported to the NYSDEC in the *2015 Annual Summary and Site Maintenance and Monitoring Report*.

CB&I and Textron appreciate the NYSDEC's consideration of these matters. If there are any further questions or concerns, please feel free to contact Greg Simpson at (401) 457-2635 or me at (412) 858-3977.

Sincerely,



Cecelia Byers
Project Manager 1

CB:lmk

Attachments: Table
Figures
Appendix A – Analytical Report

cc: Mr. Greg Simpson – Textron
Mr. Brian Sadowski – NYSDEC
Mr. Dennis Weiss – NYSDEC
File

Table

TABLE 1
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, NY
May and June 2015

SAMPLE LOCATION	EW-2	EW-2	EW-3	EW-3
SAMPLE I.D.	BAT-EW-2-150515	BAT-EW-2-150619	BAT-EW-3-150518	BAT-DUP-2-150518
SAMPLE DATE	5/15/2015	6/19/2015	5/18/2015	5/18/2015
<i>VOCs by USEPA Method 8260</i>				
Chloromethane	1 U	1 U	10 U	10 U
Vinyl Chloride	0.83 J	1	1,200	1,200
Chloroethane	1 U	1 U	10 U	10 U
Bromomethane	1 U	1 U	10 U	10 U
1,1-Dichloroethene	1 U	1 U	5.7 J	10 U
Acetone	5 U	2.3	50 U	50 U
Carbon Disulfide	1 U	1 U	10 U	10 U
Methylene Chloride	1 U	1 U	10 U	10 U
trans-1,2-Dichloroethene	1.4	1.2	9.8 J	10 U
1,1-Dichloroethane	3.4	4.0	12	11 J
cis-1,2-Dichloroethene	9.6	24	1,900	1,800
2-Butanone	5 U	5 U	50 U	50 U
Chloroform	1.2	1.2	10 U	6.6 U
1,1,1-Trichloroethane	3.2	3.1	15	13 U
Carbon Tetrachloride	1 U	1 U	10 U	10 U
Benzene	1 U	1 U	10 U	10 U
1,2-Dichloroethane	1 U	1 U	10 U	10 U
Trichloroethene	4.1	5.1	6.0 J	5.3 J
1,2-Dichloropropane	1 U	1 U	10 U	10 U
Bromodichloromethane	1 U	1 U	10 U	10 U
cis-1,3-Dichloropropene	1 U	1 U	10 U	10 U
4-Methyl-2-pentanone	5 U	5 U	50 U	50 U
Toluene	1 U	1 U	10 U	10 U
trans-1,3-Dichloropropene	1 U	1 U	10 U	10 U
1,1,2-Trichloroethane	1 U	1 U	10 U	10 U
Tetrachloroethene	1 U	1 U	10 U	10 U
2-Hexanone	5 U	5 U	50 U	50 U
Dibromochloromethane	1 U	1 U	10 U	10 U
Chlorobenzene	1 U	1 U	10 U	10 U
Ethylbenzene	1 U	1 U	10 U	10 U
m/p-Xylenes	2 U	2 U	20 U	20 U
o-Xylene	1 U	1 U	10 U	10 U
Styrene	1 U	1 U	10 U	10 U
Bromoform	1 U	1 U	10 U	10 U
1,1,2,2-Tetrachloroethane	1 U	1 U	10 U	10 U

Notes:

U = Compound not detected at detection limit.

Bold = Compound detected at concentration.

J = Indicates an estimated value below detection limit.

TABLE 1
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, NY
May and June 2015

SAMPLE LOCATION	EW-3	EW-3	EW-4	EW-5
SAMPLE I.D.	BAT-EW-3-150619	BAT-DUP-2-150619	BAT-EW-4-150518	BAT-EW-5-150518
SAMPLE DATE	6/19/2015	06/19/2015	5/18/2015	5/18/2015
<i>VOCs by USEPA Method 8260</i>				
Chloromethane	10 U	10 U	1 U	10 U
Vinyl Chloride	960	830	57	1,000
Chloroethane	10 U	10 U	1 U	10 U
Bromomethane	10 U	10 U	1 U	10 U
1,1-Dichloroethene	6.7 J	10 U	1 U	10 U
Acetone	50 U	50 U	5 U	50 U
Carbon Disulfide	10 U	10 U	0.53 U	10 U
Methylene Chloride	10 U	10 U	1 U	10 U
trans-1,2-Dichloroethene	8.8 J	9.7 J	1.1	10 U
1,1-Dichloroethane	11 U	11 J	1.1	10 J
cis-1,2-Dichloroethene	1,900	1,700	27	1,600
2-Butanone	50 U	50 U	5 U	50 U
Chloroform	4.3 J	3.9 J	1 U	6.5 J
1,1,1-Trichloroethane	14 U	12	0.85 J	11
Carbon Tetrachloride	10 U	10 U	1 U	10 U
Benzene	10 U	10 U	1 U	10 U
1,2-Dichloroethane	10 U	10 U	1 U	10 U
Trichloroethene	6.5 J	7.2 J	0.41 J	5.6 J
1,2-Dichloropropane	10 U	10 U	1 U	10 U
Bromodichloromethane	10 U	10 U	1 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	1 U	10 U
4-Methyl-2-pentanone	50 U	50 U	5 U	50 U
Toluene	10 U	10 U	1 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	1 U	10 U
1,1,2-Trichloroethane	10 U	10 U	1 U	10 U
Tetrachloroethene	10 U	10 U	1 U	10 U
2-Hexanone	50 U	50 U	5 U	50 U
Dibromochloromethane	10 U	10 U	1 U	10 U
Chlorobenzene	10 U	10 U	1 U	10 U
Ethylbenzene	10 U	10 U	1 U	10 U
m/p-Xylenes	20 U	20 U	2 U	20 U
o-Xylene	10 U	10 U	1 U	10 U
Styrene	10 U	10 U	1 U	10 U
Bromoform	10 U	10 U	1 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	1 U	10 U

Notes:

U = Compound not detected at detection limit.

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TABLE 1
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, NY
May and June 2015

SAMPLE LOCATION	EW-5	EW-6	EW-6		EW-6	
SAMPLE I.D.	BAT-EW-5-150620	BAT-EW-6-150518	BAT-EW-6-150518MS		BAT-EW-6-150518DMS	
SAMPLE DATE	6/20/2015	5/18/2015	5/18/2015		5/18/2015	
VOCs by USEPA Method 8260			Matrix Spike		Matrix Spike Duplicate	
			% Rec.	QC Lim	% Rec.	QC Lim
Chloromethane	5 U	1 U	92	55-160	98	55-160
Vinyl Chloride	500	1.2	92	60-157	98	60-157
Chloroethane	5 U	1 U	94	70-140	101	70-140
Bromomethane	5 U	1 U	58	10-162	65	10-162
1,1-Dichloroethene	5 U	1 U	93	72-125	100	72-125
Acetone	50 U	5 U	100	29-151	108	29-151
Carbon Disulfide	5 U	1 U	88	34-162	95	34-162
Methylene Chloride	5 U	1 U	90	75-121	96	75-121
trans-1,2-Dichloroethene	4.3 U	0.48 J	95	77-125	100	77-125
1,1-Dichloroethane	5.2 J	0.40 J	95	74-132	103	74-132
cis-1,2-Dichloroethene	450	26	96	72-133	101	72-133
2-Butanone	25 U	1 U	87	46-141	92	46-141
Chloroform	2.8 U	1 U	95	75-130	101	75-130
1,1,1-Trichloroethane	4.2 J	1 U	95	74-127	104	74-127
Carbon Tetrachloride	5 U	1 U	101	71-135	107	71-135
Benzene	5 U	1 U	96	76-129	99	76-129
1,2-Dichloroethane	5 U	1 U	95	72-132	98	72-132
Trichloroethene	2.4 U	1 U	95	62-142	101	62-142
1,2-Dichloropropane	5 U	1 U	94	79-124	99	79-124
Bromodichloromethane	5 U	1 U	99	76-127	101	76-127
cis-1,3-Dichloropropene	5 U	1 U	85	52-134	89	52-134
4-Methyl-2-pentanone	25 U	5 U	92	60-141	95	60-141
Toluene	5 U	1 U	94	79-125	97	79-125
trans-1,3-Dichloropropene	5 U	1 U	84	64-123	88	64-123
1,1,2-Trichloroethane	5 U	1 U	90	82-115	95	82-115
Tetrachloroethene	5 U	1 U	92	67-137	100	67-137
2-Hexanone	25 U	5 U	98	56-132	104	56-132
Dibromochloromethane	5 U	1 U	100	72-128	110	72-128
Chlorobenzene	5 U	1 U	98	76-125	105	76-125
Ethylbenzene	5 U	1 U	90	72-134	96	72-134
m/p-Xylenes	10 U	2 U	100	68-138	105	68-138
o-Xylene	5 U	1 U	97	68-134	105	68-134
Styrene	5 U	1 U	89	34-156	85	34-156
Bromoform	5 U	1 U	103	58-133	106	58-133
1,1,2,2-Tetrachloroethane	5 U	1 U	101	72-122	108	72-122

Notes:

U = Compound not detected at detection limit.

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TABLE 1
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, NY
May and June 2015

SAMPLE LOCATION	EW-6	EW-6		EW-6		93-03(1)
SAMPLE I.D.	BAT-EW-6-141029	BAT-87-10(0-141030MS		BAT-87-10(0)-141030MSD		BAT-93-03(1)-150619
SAMPLE DATE	6/19/2015	6/19/2015		6/19/2015		6/19/2015
VOCs by USEPA Method 8260		Matrix Spike		Matrix Spike Duplicate		
		% Rec.	QC Lim	% Rec.	QC Lim	
Chloromethane	1 U	114	55-160	116	55-160	1 U
Vinyl Chloride	0.44	109	60-157	109	60-157	1 U
Chloroethane	1 U	88	70-140	90	70-140	1 U
Bromomethane	1 U	56	10-162	78	10-162	1 U
1,1-Dichloroethene	1 U	98	72-125	100	72-125	1 U
Acetone	5 U	100	29-151	104	29-151	5 U
Carbon Disulfide	1 U	57	34-162	61	34-162	1 U
Methylene Chloride	1 U	96	75-121	101	75-121	1 U
trans-1,2-Dichloroethene	0.46 U	102	77-125	103	77-125	1 U
1,1-Dichloroethane	0.39 J	99	74-132	101	74-132	1 U
cis-1,2-Dichloroethene	12	110	72-133	106	72-133	1 U
2-Butanone	1 U	115	46-141	107	46-141	5 U
Chloroform	1 U	101	75-130	100	75-130	1 U
1,1,1-Trichloroethane	1 U	97	74-127	97	74-127	1 U
Carbon Tetrachloride	1 U	84	71-135	89	71-135	1 U
Benzene	1 U	105	76-129	104	76-129	1 U
1,2-Dichloroethane	1 U	98	72-132	98	72-132	1 U
Trichloroethene	0.25 J	106	62-142	106	62-142	1 U
1,2-Dichloropropane	1 U	104	79-124	102	79-124	1 U
Bromodichloromethane	1 U	91	76-127	92	76-127	1 U
cis-1,3-Dichloropropene	1 U	74	52-134	83	52-134	1 U
4-Methyl-2-pentanone	5 U	112	60-141	112	60-141	5 U
Toluene	1 U	104	79-125	102	79-125	1 U
trans-1,3-Dichloropropene	1 U	77	64-123	84	64-123	1 U
1,1,2-Trichloroethane	1 U	107	82-115	109	82-115	1 U
Tetrachloroethene	1 U	96	67-137	98	67-137	1 U
2-Hexanone	5 U	103	56-132	102	56-132	5 U
Dibromochloromethane	1 U	82	72-128	86	72-128	1 U
Chlorobenzene	1 U	99	76-125	99	76-125	1 U
Ethylbenzene	1 U	91	72-134	92	72-134	1 U
m/p-Xylenes	2 U	99	68-138	99	68-138	2 U
o-Xylene	1 U	99	68-134	100	68-134	1 U
Styrene	1 U	81	34-156	83	34-156	1 U
Bromoform	1 U	70	58-133	73	58-133	1 U
1,1,2,2-Tetrachloroethane	1 U	100	72-122	105	72-122	1 U

Notes:

U = Compound not detected at detection limit.

Bold = Compound detected at concentration.

J = Indicates an estimated value below detection limit

TABLE 1
Summary of Groundwater Analytical Data
Former Textron Inc.
Wheatfield, NY
May and June 2015

SAMPLE LOCATION	FIELD BLANK 2	FIELD BLANK 2	TRIP BLANK	TRIP BLANK
SAMPLE I.D.	BAT-FB-2-150518	BAT-FB-2-150619	Trip Blank	Trip Blank
SAMPLE DATE	5/18/2015	6/19/2015	5/15/2015	6/19/2015
<i>VOCs by USEPA Method 8260</i>				
Chloromethane	1 U	1 U	1 U	1 U
Vinyl Chloride	1 U	1 U	1 U	1 U
Chloroethane	1 U	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U
Acetone	1 U	5 U	5 U	5 U
Carbon Disulfide	5 U	1 U	1 U	1 U
Methylene Chloride	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U
2-Butanone	1 U	5 U	5 U	5 U
Chloroform	5 U	1 U	1 U	1 U
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U
Carbon Tetrachloride	1 U	1 U	1 U	1 U
Benzene	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U
Trichloroethene	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U
Bromodichloromethane	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone	1 U	5 U	5 U	5 U
Toluene	5 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U
Tetrachloroethene	1 U	1 U	1 U	1 U
2-Hexanone	1 U	5 U	5 U	5 U
Dibromochloromethane	5 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U
Ethylbenzene	1 U	1 U	1 U	1 U
m/p-Xylenes	1 U	2 U	2 U	2 U
o-Xylene	2 U	1 U	1 U	1 U
Styrene	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U

Notes:

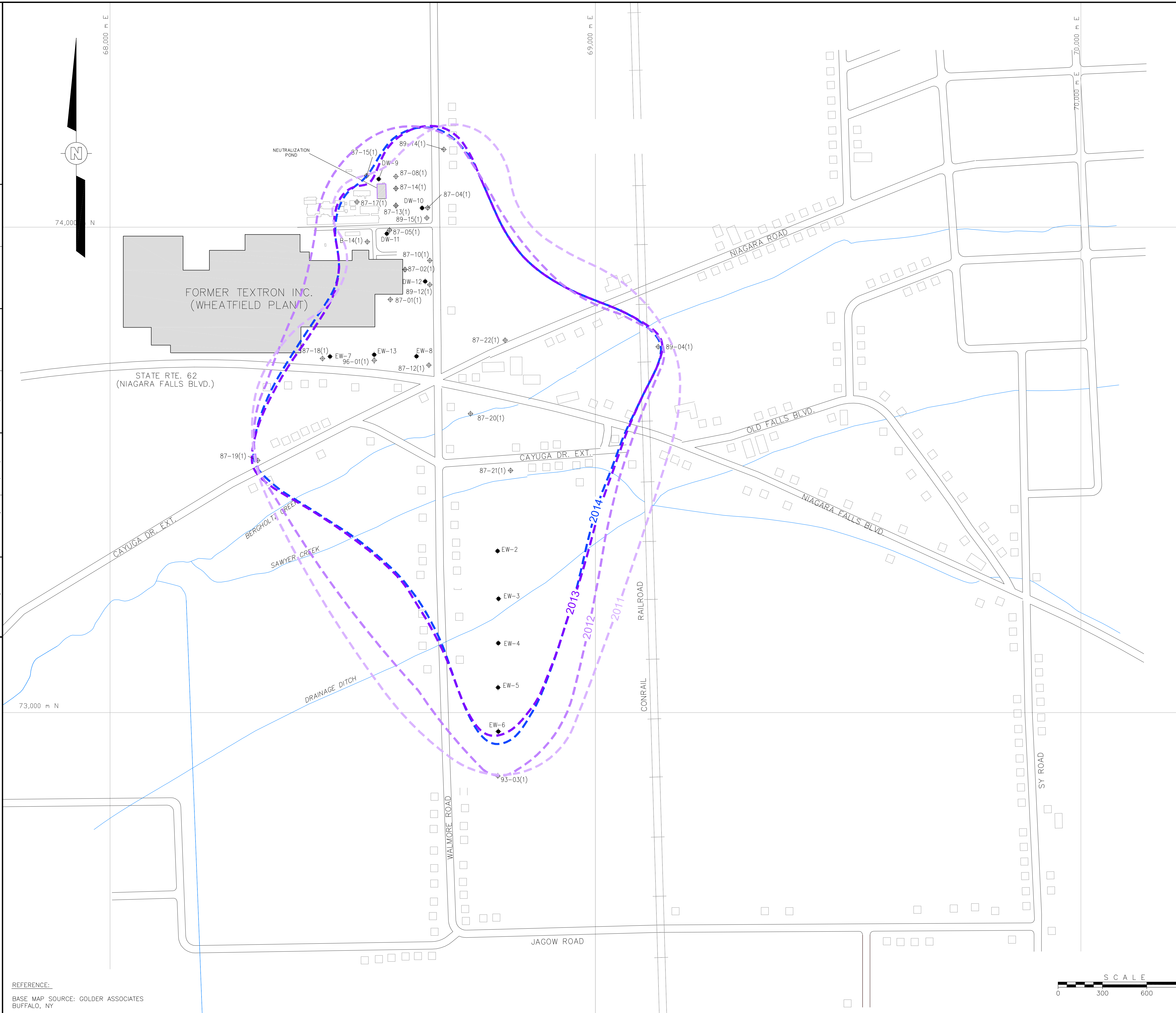
U = Compound not detected at detection limit.

Bold = Compound detected at concentration.

J = Indicates an estimated value below detection limit

Figure

File: O:\Show Offices - CAD Files\Latham, NY\148900\148900-D11.dwg
Plot Date/Time: Jul 15, 2015 - 2:20pm
Plotted By: evan.schlegel



LEGEND:

-  EXTRACTION WELL OR DNAPL WELL
 MONITORING WELL OR PIEZOMETER
 2014 APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
 2013 APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
 2012 APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)
 2011 APPROXIMATE LIMIT OF DISSOLVED PHASE PLUME (1 ppb TVO)

NOTES:

1. GRID SYSTEM SHOWN IS 1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
4. TOTAL VOLATILE ORGANIC (TVO) DETECTIONS/MINUS CARBON DISULFIDE.



TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 1
DISSOLVED PHASE PLUME MAP
ZONE 1 BEDROCK

2221 NIAGARA FALLS BOULEVARD
NIAGARA FALLS, NEW YORK

Attachment A

Laboratory Analytical Report



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

June 02, 2015

Analytical Report for Service Request No: R1503862

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mossie Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield/Semiannual Groundwater - 148900

Dear Ms. Byers:

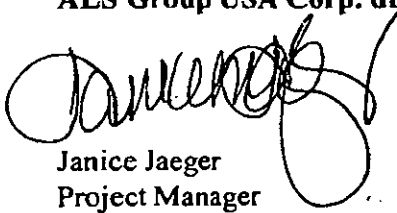
Enclosed are the results of the sample(s) submitted to our laboratory on May 20, 2015. For your reference, these analyses have been assigned our service request number **R1503862**.

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

Page 1 of 33

ALS Environmental

Client: CB&I Environmental
Service Request No.: R1503862
Project: Textron Wheatfield Semiannual
Date Received: 5/20/15
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

Water samples were received for analysis at ALS Environmental on 5/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Twelve water samples were analyzed for a site specific list of Volatiles by method 5030C/8260C from SW-846.

All initial calibration criteria were met for all compounds. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane on the 05/24/15 and 05/25/15 CCV's and Acetone on the 05/27/15 CCV. All samples with positive detections for these compounds should be considered as estimated.

All Tuning criteria were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits except Dichlorodifluoromethane was outside limits high on the 05/05/15 LCS and has been flagged with an "**". No data was affected.

Site specific QC was performed on BAT-EW-6-150518 and BAT-87-02(3)-15-518. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for BAT-87-13(3)-150518 and BAT-87-13(3)-150518DUP have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

All Internal Standard (IS) Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blank associated with these samples was free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: Semiannual Groundwater - 148900
 Submission: R1503862
 Client: CB&I
 Client Rep: JJAEGER
 Project: Textron Wheatfield

Batch Complete: Yes
 Diskette Requested: No
 Date: 6/18/15
 Custody Seal: Present/Absent:
 Chain of Custody: Present/Absent:

Date Revised:
 Date Due: 6/3/15
 Protocol: SW846
 Shipping No.:
 SDG #: BAT-FB1-150518

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1503862-002	BAT-FB2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-003	BAT-EW-2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-004	BAT-EW-3-150518	Water	8260C	5/18/15	5/20/15			
R1503862-005	BAT-EW-4-150518	Water	8260C	5/18/15	5/20/15			
R1503862-006	BAT-EW-5-150518	Water	8260C	5/18/15	5/20/15			
R1503862-007QC	BAT-EW-6-150518	Water	8260C	5/18/15	5/20/15			
R1503862-008	BAT-DUP-2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-012	TRIP BLANK	Water	8260C	5/15/15	5/20/15			

Folder Comments:

CLP Batching Form

Printed 6/18/15 13:38

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/Aroclors). 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 ($\geq 100\%$ 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.



Rochester Lab ID # for State Certifications¹

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

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

Project Name TEXTON		Project Number 148900		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																	
Project Manager CECEIA BYERS		Report CC LISA SCHMERHORN		PRESERVATIVE 1																	
Company/Address CB: I		NUMBER OF CONTAINERS GC/MS VOCs • 8210 • 821 • CUP GC/MS STODAS • 8270 • 825 GC VOCs • 8021 • 801/802 PESTICIDES • 8931 • 808 PCBs • 8082 • 808 METALS TOTAL (L&I in comments below) METALS DISSOLVED (L&I in comments below)		Preservative Key 0. NONE 1. HCL 2. HNO ₃ 3. H ₂ SO ₄ 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO ₄ 8. Other _____										REMARKS/ ALTERNATE DESCRIPTION							
2790 MOSSIDE BLVD.																					
MONROEVILLE, PA 15146																					
Phone # 518-281-2034 Email CECEIA.BYERS@CBI.COM																					
Sample Signature <i>[Signature]</i> Sample's Printed Name KEVIN CRONIN																					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																
BAT-DUP 1-150518		5/15/18			GW	3	X														
BAT-87-02(3)-150518				1510		3	X														
BAT-87-02(3)-150518MS						3	X														
BAT-87-02(3)-150518MSD						3	X														
TRIP BLANK						3	X														
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) STANDARD 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only ☒ II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data Edata ☒ Yes ☐ No				INVOICE INFORMATION PO # _____ BILL TO: _____ RECEIVED BY _____							
STATE WHERE SAMPLES WERE COLLECTED																					
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY							
Signature <i>[Signature]</i> Printed Name KEVIN CRONIN Firm CB: I Date/Time 5/14/15 1500		Signature <i>[Signature]</i> Printed Name G. Esmerion Firm ALS Date/Time 5/20/15 09:33		Signature _____ Printed Name _____ Firm _____ Date/Time _____		Signature _____ Printed Name _____ Firm _____ Date/Time _____		Signature _____ Printed Name _____ Firm _____ Date/Time _____		Signature _____ Printed Name _____ Firm _____ Date/Time _____		Signature _____ Printed Name _____ Firm _____ Date/Time _____									

R1503862 5
 CBA Environmental & Infrastructure
 Texton Wheelfield




Cooler Receipt and Preservation Check Form

R1503862

5

CB&I Environmental & Infrastructure
Treston Wheatfield

Project/Client

CB&I

Folder Number

R1503862

Cooler received on

5-20-15

by:

HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	Y	N

5a	Perchlorate samples have required headspace?	Y	N	NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set NA

8. Temperature Readings

Date: 5-20-15

Time: 10:04

ID: IR#3

IR#5

From: Temp Blank

Sample Bottle

Observed Temp (°C)	4.3								
Correction Factor (°C)	-0.4								
Corrected Temp (°C)	3.9								
Within 0-6°C?	Y	N	Y	N	Y	N	Y	N	Y

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-00A

by HE

on 5-20-15

at 10:06

5035 samples placed in storage location:

by

on

at

PC Secondary Review:

ms 5/20/15

Cooler Breakdown:

Date: 5-20-15

Time: 14:20

by:

HE

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 ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	Zn Acetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust:

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

Bottle lot numbers:

Other Comments:

* BAT-87-13(3)-150518: 1 of 3 vials has sig. headspace.
 BAT Dup 1-150518: All 3 vials have sig. headspace.

** BAT-EW-3-150518: vials labelled as BAT-ES-3-150518. Sample went into the lab per C.O.C.

HE 5-20-15

PC Secondary Review:

ms 5/20/15

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 0925
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:18

Sample Name: BAT-FB2-150518
Lab Code: R1503862-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8836.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 0925
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:18

Sample Name: BAT-FB2-150518
Lab Code: R1503862-002

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8836.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/25/15 00:18	
Toluene-d8	96	87-121	5/25/15 00:18	
Dibromofluoromethane	100	89-119	5/25/15 00:18	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/18/15 1000
 Date Received: 5/20/15
 Date Analyzed: 5/25/15 00:47

Sample Name: BAT-EW-2-150518
 Lab Code: R1503862-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8837.D\

Analysis Lot: 446162
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	0.83 J	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.4	1.0	0.33	
75-34-3	1,1-Dichloroethane	3.4	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	9.6	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.2	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	3.2	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	4.1	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1000
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:47

Sample Name: BAT-EW-2-150518
Lab Code: R1503862-003

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8837.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	5/25/15 00:47	
Toluene-d8	97	87-121	5/25/15 00:47	
Dibromofluoromethane	99	89-119	5/25/15 00:47	

Analytical Report

Units: µg/L
Basis: NA

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	10	U	10	2.1	
75-01-4	Vinyl Chloride	1200		10	3.2	
75-00-3	Chloroethane	10	U	10	2.4	
74-83-9	Bromomethane	10	U	10	2.9	
75-35-4	1,1-Dichloroethene	5.7	J	10	5.7	
67-64-1	Acetone	50	U	50	13	
75-15-0	Carbon Disulfide	10	U	10	2.2	
75-09-2	Methylene Chloride	10	U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	9.8	J	10	3.4	
75-34-3	1,1-Dichloroethane	12		10	2.0	
156-59-2	cis-1,2-Dichloroethene	1900		10	3.0	
78-93-3	2-Butanone (MEK)	50	U	50	8.2	
67-66-3	Chloroform	10	U	10	2.5	
71-55-6	1,1,1-Trichloroethane	15		10	3.6	
56-23-5	Carbon Tetrachloride	10	U	10	4.5	
71-43-2	Benzene	10	U	10	2.0	
107-06-2	1,2-Dichloroethane	10	U	10	3.6	
79-01-6	Trichloroethene	6.0	J	10	2.2	
78-87-5	1,2-Dichloropropane	10	U	10	2.0	
75-27-4	Bromodichloromethane	10	U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	
108-88-3	Toluene	10	U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10	U	10	3.5	
127-18-4	Tetrachloroethene	10	U	10	3.0	
591-78-6	2-Hexanone	50	U	50	17	
124-48-1	Dibromochloromethane	10	U	10	3.1	
108-90-7	Chlorobenzene	10	U	10	2.9	
100-41-4	Ethylbenzene	10	U	10	2.0	
179601-23-1	m,p-Xylenes	20	U	20	3.4	
95-47-6	o-Xylene	10	U	10	2.0	
100-42-5	Styrene	10	U	10	2.0	
75-25-2	Bromoform	10	U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-3-150518
Lab Code: R1503862-004

Service Request: R1503862
Date Collected: 5/18/15 1015
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:17

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8838.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	5/25/15 01:17	
Toluene-d8	97	87-121	5/25/15 01:17	
Dibromofluoromethane	102	89-119	5/25/15 01:17	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/18/15 1025
 Date Received: 5/20/15
 Date Analyzed: 5/25/15 15:32

Sample Name: BAT-EW-4-150518
 Lab Code: R1503862-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8864.D\

Analysis Lot: 446166
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	57		1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	0.53	J	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.1		1.0	0.33	
75-34-3	1,1-Dichloroethane	1.1		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	27		1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	0.85	J	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	0.41	J	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1025
Date Received: 5/20/15
Date Analyzed: 5/25/15 15:32

Sample Name: BAT-EW-4-150518
Lab Code: R1503862-005

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8864.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/25/15 15:32	
Toluene-d8	96	87-121	5/25/15 15:32	
Dibromofluoromethane	100	89-119	5/25/15 15:32	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1045
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:01

Sample Name: BAT-EW-5-150518
Lab Code: R1503862-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8865.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	1000	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	10	10	3.4	
75-34-3	1,1-Dichloroethane	10	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1600	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	6.5 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	11	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	5.6 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1045
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:01

Sample Name: BAT-EW-5-150518
Lab Code: R1503862-006

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8865.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85-122	5/25/15 16:01	
Toluene-d8	96	87-121	5/25/15 16:01	
Dibromofluoromethane	100	89-119	5/25/15 16:01	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:47

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8839.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.2	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	0.48 J	1.0	0.33	
75-34-3	1,1-Dichloroethane	0.40 J	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	26	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:47

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8839.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	5/25/15 01:47	
Toluene-d8	97	87-121	5/25/15 01:47	
Dibromofluoromethane	100	89-119	5/25/15 01:47	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:31

Sample Name: BAT-DUP-2-150518
Lab Code: R1503862-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8866.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	1200	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	10	10	3.4	
75-34-3	1,1-Dichloroethane	11	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1800	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	6.6 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	13	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	5.3 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:31

Sample Name: BAT-DUP-2-150518
Lab Code: R1503862-008

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8866.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	5/25/15 16:31	
Toluene-d8	96	87-121	5/25/15 16:31	
Dibromofluoromethane	100	89-119	5/25/15 16:31	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/15/15 1510
Date Received: 5/20/15
Date Analyzed: 5/24/15 23:19

Sample Name: TRIP BLANK
Lab Code: R1503862-012

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8834.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/15/15 1510
Date Received: 5/20/15
Date Analyzed: 5/24/15 23:19

Sample Name: TRIP BLANK
Lab Code: R1503862-012

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8834.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/24/15 23:19	
Toluene-d8	97	87-121	5/24/15 23:19	
Dibromofluoromethane	99	89-119	5/24/15 23:19	

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/24/15 22:49

Sample Name: Method Blank
 Lab Code: RQ1505558-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8833.D\

Analysis Lot: 446162
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/15 22:49

Sample Name: Method Blank
Lab Code: RQ1505558-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8833.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/24/15 22:49	
Toluene-d8	98	87-121	5/24/15 22:49	
Dibromofluoromethane	100	89-119	5/24/15 22:49	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 10:26

Sample Name: Method Blank
Lab Code: RQ1505539-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 10:26

Sample Name: Method Blank
Lab Code: RQ1505539-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/25/15 10:26	
Toluene-d8	97	87-121	5/25/15 10:26	
Dibromofluoromethane	100	89-119	5/25/15 10:26	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	BAT-EW-6-150518MS Matrix Spike RQ1505558-05			BAT-EW-6-150518DMS Duplicate Matrix Spike RQ1505558-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloromethane	ND	45.8	50.0	92	49.2	50.0	98	55 - 160	7	30
Vinyl Chloride	1.2	47.0	50.0	92	50.2	50.0	98	60 - 157	7	30
Chloroethane	ND	47.0	50.0	94	50.7	50.0	101	70 - 140	8	30
Bromomethane	ND	28.9	50.0	58	32.6	50.0	65	10 - 162	12	30
1,1-Dichloroethene	ND	46.7	50.0	93	50.2	50.0	100	72 - 125	7	30
Acetone	ND	50.1	50.0	100	54.2	50.0	108	29 - 151	8	30
Carbon Disulfide	ND	43.9	50.0	88	47.4	50.0	95	34 - 162	8	30
Methylene Chloride	ND	45.1	50.0	90	48.1	50.0	96	75 - 121	6	30
trans-1,2-Dichloroethene	0.48	48.2	50.0	95	50.6	50.0	100	77 - 125	5	30
1,1-Dichloroethane	0.40	47.8	50.0	95	52.0	50.0	103	74 - 132	8	30
cis-1,2-Dichloroethene	26	74.6	50.0	96	77.0	50.0	101	72 - 133	3	30
2-Butanone (MEK)	ND	43.7	50.0	87	46.1	50.0	92	46 - 141	5	30
Chloroform	ND	47.3	50.0	95	50.3	50.0	101	75 - 130	6	30
1,1,1-Trichloroethane	ND	47.7	50.0	95	51.9	50.0	104	74 - 127	8	30
Carbon Tetrachloride	ND	50.6	50.0	101	53.3	50.0	107	71 - 135	5	30
Benzene	ND	47.8	50.0	96	49.5	50.0	99	76 - 129	4	30
1,2-Dichloroethane	ND	47.3	50.0	95	49.2	50.0	98	72 - 132	4	30
Trichloroethene	ND	47.7	50.0	95	50.4	50.0	101	62 - 142	6	30
1,2-Dichloropropane	ND	47.2	50.0	94	49.5	50.0	99	79 - 124	5	30
Bromodichloromethane	ND	49.4	50.0	99	50.4	50.0	101	76 - 127	2	30
cis-1,3-Dichloropropene	ND	42.5	50.0	85	44.6	50.0	89	52 - 134	5	30
4-Methyl-2-pentanone (MIBK)	ND	46.1	50.0	92	47.5	50.0	95	60 - 141	3	30
Toluene	ND	47.2	50.0	94	48.6	50.0	97	79 - 125	3	30
trans-1,3-Dichloropropene	ND	42.1	50.0	84	44.0	50.0	88	64 - 123	4	30
1,1,2-Trichloroethane	ND	45.2	50.0	90	47.5	50.0	95	82 - 115	5	30
Tetrachloroethene	ND	46.1	50.0	92	49.9	50.0	100	67 - 137	8	30
2-Hexanone	ND	48.9	50.0	98	52.1	50.0	104	56 - 132	6	30
Dibromochloromethane	ND	50.2	50.0	100	54.9	50.0	110	72 - 128	9	30

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

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Units: µg/L
Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	BAT-EW-6-150518MS Matrix Spike RQ1505558-05			BAT-EW-6-150518DMS Duplicate Matrix Spike RQ1505558-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chlorobenzene	ND	49.0	50.0	98	52.5	50.0	105	76 - 125	7	30
Ethylbenzene	ND	45.0	50.0	90	47.9	50.0	96	72 - 134	6	30
m,p-Xylenes	ND	99.6	100	100	105	100	105	68 - 138	6	30
o-Xylene	ND	48.6	50.0	97	52.3	50.0	105	68 - 134	7	30
Styrene	ND	44.3	50.0	89	42.6	50.0	85	34 - 156	4	30
Bromoform	ND	51.7	50.0	103	52.8	50.0	106	58 - 133	2	30
1,1,2,2-Tetrachloroethane	ND	50.5	50.0	101	54.1	50.0	108	72 - 122	7	30

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

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

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

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862

Date Analyzed: 5/24/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 446162

Lab Control Sample RQ1505558-03				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	18.4	20.0	92	64 - 140
Vinyl Chloride	18.1	20.0	90	69 - 136
Chloroethane	18.2	20.0	91	71 - 128
Bromomethane	14.1	20.0	71	41 - 159
1,1-Dichloroethene	19.1	20.0	96	74 - 135
Acetone	16.1	20.0	80	51 - 146
Carbon Disulfide	17.1	20.0	85	63 - 141
Methylene Chloride	19.5	20.0	98	73 - 122
trans-1,2-Dichloroethene	19.5	20.0	98	78 - 124
1,1-Dichloroethane	20.4	20.0	102	76 - 128
cis-1,2-Dichloroethene	19.3	20.0	96	80 - 121
2-Butanone (MEK)	19.0	20.0	95	66 - 129
Chloroform	19.9	20.0	100	76 - 120
1,1,1-Trichloroethane	19.7	20.0	99	71 - 123
Carbon Tetrachloride	20.1	20.0	100	66 - 128
Benzene	19.4	20.0	97	76 - 118
1,2-Dichloroethane	20.3	20.0	102	72 - 130
Trichloroethene	22.2	20.0	111	76 - 123
1,2-Dichloropropane	19.6	20.0	98	80 - 119
Bromodichloromethane	20.7	20.0	104	79 - 122
cis-1,3-Dichloropropene	18.8	20.0	94	77 - 125
4-Methyl-2-pentanone (MIBK)	18.4	20.0	92	68 - 129
Toluene	19.2	20.0	96	77 - 120
trans-1,3-Dichloropropene	19.0	20.0	95	72 - 123
1,1,2-Trichloroethane	19.7	20.0	98	79 - 117
Tetrachloroethene	18.8	20.0	94	69 - 124
2-Hexanone	19.7	20.0	98	61 - 131
Dibromochloromethane	21.6	20.0	108	79 - 125
Chlorobenzene	20.6	20.0	103	80 - 121
Ethylbenzene	18.0	20.0	90	76 - 120
m,p-Xylenes	40.5	40.0	101	78 - 123
o-Xylene	19.7	20.0	98	77 - 131
Styrene	20.5	20.0	102	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/24/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446162

Lab Control Sample
RQ1505558-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	22.2	20.0	111	65 - 138
1,1,2,2-Tetrachloroethane	19.1	20.0	95	74 - 127

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

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

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Form 3C

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SuperSet Reference: 15000331708 rev 00

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Analyzed: 5/25/15

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 446166

Lab Control Sample
 RQ1505539-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	20.0	20.0	100	64 - 140
Vinyl Chloride	20.5	20.0	102	69 - 136
Chloroethane	20.7	20.0	104	71 - 128
Bromomethane	15.7	20.0	79	41 - 159
1,1-Dichloroethene	21.1	20.0	105	74 - 135
Acetone	14.0	20.0	70	51 - 146
Carbon Disulfide	19.7	20.0	98	63 - 141
Methylene Chloride	20.0	20.0	100	73 - 122
trans-1,2-Dichloroethene	21.6	20.0	108	78 - 124
1,1-Dichloroethane	21.0	20.0	105	76 - 128
cis-1,2-Dichloroethene	21.1	20.0	105	80 - 121
2-Butanone (MEK)	18.7	20.0	93	66 - 129
Chloroform	21.1	20.0	105	76 - 120
1,1,1-Trichloroethane	21.0	20.0	105	71 - 123
Carbon Tetrachloride	21.3	20.0	107	66 - 128
Benzene	20.6	20.0	103	76 - 118
1,2-Dichloroethane	20.5	20.0	103	72 - 130
Trichloroethene	20.8	20.0	104	76 - 123
1,2-Dichloropropane	20.4	20.0	102	80 - 119
Bromodichloromethane	21.2	20.0	106	79 - 122
cis-1,3-Dichloropropene	19.8	20.0	99	77 - 125
4-Methyl-2-pentanone (MIBK)	17.1	20.0	85	68 - 129
Toluene	20.6	20.0	103	77 - 120
trans-1,3-Dichloropropene	19.5	20.0	97	72 - 123
1,1,2-Trichloroethane	19.5	20.0	97	79 - 117
Tetrachloroethene	21.1	20.0	105	69 - 124
2-Hexanone	18.9	20.0	94	61 - 131
Dibromochloromethane	21.2	20.0	106	79 - 125
Chlorobenzene	21.6	20.0	108	80 - 121
Ethylbenzene	19.8	20.0	99	76 - 120
m,p-Xylenes	44.5	40.0	111	78 - 123
o-Xylene	21.3	20.0	107	77 - 131
Styrene	22.0	20.0	110	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/25/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446166

Lab Control Sample
RQ1505539-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	21.2	20.0	106	65 - 138
1,1,2,2-Tetrachloroethane	22.1	20.0	111	74 - 127

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

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

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Form 3C

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SuperSet Reference: 85-00093-1700 rev 00



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

June 02, 2015

Analytical Report for Service Request No: R1503862

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mossdale Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield/Semiannual Groundwater - 148900

Dear Ms. Byers:

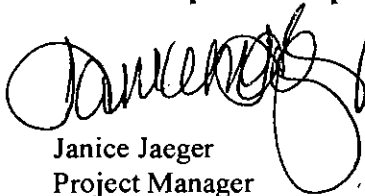
Enclosed are the results of the sample(s) submitted to our laboratory on May 20, 2015. For your reference, these analyses have been assigned our service request number **R1503862**.

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

Page 1 of 526



SDG NARRATIVE

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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

Client: CB&I Environmental
Service Request No.: R1503862
Project: Textron Wheatfield Semiannual
Date Received: 5/20/15
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

Water samples were received for analysis at ALS Environmental on 5/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Twelve water samples were analyzed for a site specific list of Volatiles by method 5030C/8260C from SW-846.

All initial calibration criteria were met for all compounds. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Bromomethane on the 05/24/15 and 05/25/15 CCV's and Acetone on the 05/27/15 CCV. All samples with positive detections for these compounds should be considered as estimated.

All Tuning criteria were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits except Dichlorodifluoromethane was outside limits high on the 05/05/15 LCS and has been flagged with an "*". No data was affected.

Site specific QC was performed on BAT-EW-6-150518 and BAT-87-02(3)-15-518. All MS/MSD recoveries and RPD's were acceptable.

Various compounds for BAT-87-13(3)-150518 and BAT-87-13(3)-150518DUP have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

All Internal Standard (IS) Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blank associated with these samples was free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

00003

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: Semiannual Groundwater - 148900
 Submission: R1503862
 Client: CB&I
 Client Rep: JJAEGER
 Project: Textron Wheatfield

Batch Complete: Yes
 Diskette Requested: No
 Date: 6/18/15
 Custody Seal: Present/Absent:
 Chain of Custody: Present/Absent:

Date Revised:
 Date Due: 6/3/15
 Protocol: SW846
 Shipping No.:
 SDG #: BAT-FB1-150518

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1503862-002	BAT-FB2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-003	BAT-EW-2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-004	BAT-EW-3-150518	Water	8260C	5/18/15	5/20/15			
R1503862-005	BAT-EW-4-150518	Water	8260C	5/18/15	5/20/15			
R1503862-006	BAT-EW-5-150518	Water	8260C	5/18/15	5/20/15			
R1503862-007QC	BAT-EW-6-150518	Water	8260C	5/18/15	5/20/15			
R1503862-008	BAT-DUP-2-150518	Water	8260C	5/18/15	5/20/15			
R1503862-012	TRIP BLANK	Water	8260C	5/15/15	5/20/15			

Folder Comments:

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CLP Batching Form

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REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative. J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors). 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 ($\geq 100\%$ 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.



Rochester Lab ID # for State Certifications¹

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

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



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

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

25857

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 2

Project Name TEXTRON		Project Number 148900		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																			
Project Manager CECELIA BYERS		Report CC LISA SCHMERTHORN		PRESERVATIVE 1																			
Company/Address CBI		NUMBER OF CONTAINERS		GC/MS VOCs • 8260 • 8221 • CLP GC/MS SVOCs • 8270 • 825 GC VOCs • 8021 • 801/802 PESTICIDES • 8061 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn, Acetate 6. MeOH 7. NaHSO₄ 8. Other _____																			
2790 MOSSIDE BLVD.																							
MONROEVILLE PA 15146																							
Phone # 518-281-2034		Email CECELIA.BYERS@CBI.COM		REMARKS/ ALTERNATE DESCRIPTION																			
Sampler's Signature <i>Kevin Cronin</i>		Sampler's Printed Name KEVIN CRONIN																					
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																		
BAT-FB1-150518		05/18/15		0920	GW	3	X																
BAT-FB2-150518				0925	GW		X																
EW-2 BAT-EW-2-15098				1500	GW		X																
BAT-EW-3-150518				1015	GW		X																
BAT-EW-4-150518				1025	GW		X																
BAT-EW-5-150518				1045	GW		X																
BAT-EW-6-150518				1120	GW		X																
BAT-EW-6-150518 MS				1120	GW		X																
BAT-EW-6-150518 MSD				1120	GW		X																
BAT-EW-2-150518		05/18/15			GW		X																
BAT-67-13(3)-150518				1320	GW		X																
SPECIAL INSTRUCTIONS/COMMENTS Metals						TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) STANDARD 1 day ____ 2 day ____ 3 day ____ 4 day ____ 5 day ____ REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only ☒ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata ☒ Yes ____ No				INVOICE INFORMATION PO # BILL TO:									
See QAPP ☐																							
STATE WHERE SAMPLES WERE COLLECTED NY																							
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY									
Signature <i>Kevin Cronin</i>		Signature <i>Gregory O. Esmerian</i>		Signature		Signature		Signature		Signature		Signature		Signature									
Printed Name KEVIN CRONIN		Printed Name Gregory O. Esmerian		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name									
Firm CBI		Firm A2S		Firm		Firm		Firm		Firm		Firm		Firm									
Date/Time 5/19/15 1500		Date/Time 5-20-15 09:35		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time									

R1503862 5
CB&I Environmental & Infrastructure
Textron Wheatfield





Cooler Receipt and Preservation Check Form

R1503862

5

CBSI Environmental & Infrastructure
Tetron Wheatfield

Project/Client

CBI

Folder Number

R1503862

Cooler received on

5-20-15

by:

HE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	N
2	Custody papers properly completed (ink, signed)?	Y	N
3	Did all bottles arrive in good condition (unbroken)?	Y	N
4	Circle: Wet Ice Dry Ice Gel packs present?	Y	N

5a	Perchlorate samples have required headspace?	Y	N	NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	N	NA
6	Where did the bottles originate?	ALS/ROC	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set NA

8. Temperature Readings

Date: 5-20-15

Time: 10:04

ID: IR#3 IR#5

From: Temp Blank Sample Bottle

Observed Temp (°C)	4.3								
Correction Factor (°C)	-0.4								
Corrected Temp (°C)	3.9								
Within 0-6°C?	(Y) N	Y N	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-00A

by HE

on 5-20-15

at 10:05

5035 samples placed in storage location:

by

on

at

PC Secondary Review:

ms/20/15

Cooler Breakdown: Date: 5-20-15

Time: 14:20

by:

HE

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 ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust:

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

Bottle lot numbers:

Other Comments:

*BAT-87-13(3)-150518: 1 of 3 vials has sig. headspace.
 BAT DHP 1-150518: All 3 vials have sig. headspace.

**BAT-EW-3-150518: vials labelled as BAT-ES-3-150518. Sample went into the lab per C.O.C.

HE 5-20-15

PC Secondary Review:

ms/20/15

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

00005

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1503862-001.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-001.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-001.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-002.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-002.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-002.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-003.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-003.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-003.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-004.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-004.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-004.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-005.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
R1503862-005.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-005.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-006.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
R1503862-006.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-006.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-007.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-007.02		5/20/15	1423	SMO / GLAFORCE	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1503862-007.03		5/20/15	1423	R-001 / GLAFORCE	
		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-007.04		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-007.05		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-007.06		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-007.07		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-007.08		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-007.09		5/20/15	1435	SMO / GLAFORCE	
		5/20/15	1435	R-001 / GLAFORCE	
R1503862-008.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
R1503862-008.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-008.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-009.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
		5/26/15	1046	In Lab / FNAEGLER	
		5/26/15	1403	R-001-S10 / KRUEST	
R1503862-009.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-009.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-010.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
		5/26/15	1046	In Lab / FNAEGLER	
		5/26/15	1403	R-001-S10 / KRUEST	
R1503862-010.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-010.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1004	R-001-S10 / FNAEGLER	
		5/25/15	1007	In Lab / KRUEST	
		5/25/15	1010	R-001-S10 / KRUEST	
		5/26/15	1046	In Lab / FNAEGLER	
		5/26/15	1403	R-001-S10 / KRUEST	
		5/27/15	1657	In Lab / FNAEGLER	
		5/27/15	1716	R-001-S10 / DLIPANI	
R1503862-011.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1503862-011.04		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.05		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.06		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.07		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.08		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-011.09		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-012.01	8260C	5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
		5/24/15	1015	In Lab / FNAEGLER	
		5/24/15	1103	R-001-S10 / FNAEGLER	
R1503862-012.02		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-012.03		5/20/15	1423	SMO / GLAFORCE	
		5/20/15	1423	R-001 / GLAFORCE	
R1503862-012.04		5/20/15	1430	SMO / GLAFORCE	
		5/20/15	1430	R-001 / GLAFORCE	
R1503862-012.05		5/20/15	1430	SMO / GLAFORCE	
		5/20/15	1430	R-001 / GLAFORCE	
R1503862-012.06		5/20/15	1430	SMO / GLAFORCE	
		5/20/15	1430	R-001 / GLAFORCE	



VOLATILE ORGANICS QC SUMMARY

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/18/15
 Date Received: 5/20/15
 Date Analyzed: 5/25/15

Matrix Spike Summary
 Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150518
 Lab Code: R1503862-007

Units: µg/L
 Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	BAT-EW-6-150518MS Matrix Spike RQ1505558-05			BAT-EW-6-150518DMS Duplicate Matrix Spike RQ1505558-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloromethane	ND	45.8	50.0	92	49.2	50.0	98	55 - 160	7	30
Vinyl Chloride	1.2	47.0	50.0	92	50.2	50.0	98	60 - 157	7	30
Chloroethane	ND	47.0	50.0	94	50.7	50.0	101	70 - 140	8	30
Bromomethane	ND	28.9	50.0	58	32.6	50.0	65	10 - 162	12	30
1,1-Dichloroethene	ND	46.7	50.0	93	50.2	50.0	100	72 - 125	7	30
Acetone	ND	50.1	50.0	100	54.2	50.0	108	29 - 151	8	30
Carbon Disulfide	ND	43.9	50.0	88	47.4	50.0	95	34 - 162	8	30
Methylene Chloride	ND	45.1	50.0	90	48.1	50.0	96	75 - 121	6	30
trans-1,2-Dichloroethene	0.48	48.2	50.0	95	50.6	50.0	100	77 - 125	5	30
1,1-Dichloroethane	0.40	47.8	50.0	95	52.0	50.0	103	74 - 132	8	30
cis-1,2-Dichloroethene	26	74.6	50.0	96	77.0	50.0	101	72 - 133	3	30
2-Butanone (MEK)	ND	43.7	50.0	87	46.1	50.0	92	46 - 141	5	30
Chloroform	ND	47.3	50.0	95	50.3	50.0	101	75 - 130	6	30
1,1,1-Trichloroethane	ND	47.7	50.0	95	51.9	50.0	104	74 - 127	8	30
Carbon Tetrachloride	ND	50.6	50.0	101	53.3	50.0	107	71 - 135	5	30
Benzene	ND	47.8	50.0	96	49.5	50.0	99	76 - 129	4	30
1,2-Dichloroethane	ND	47.3	50.0	95	49.2	50.0	98	72 - 132	4	30
Trichloroethene	ND	47.7	50.0	95	50.4	50.0	101	62 - 142	6	30
1,2-Dichloropropane	ND	47.2	50.0	94	49.5	50.0	99	79 - 124	5	30
Bromodichloromethane	ND	49.4	50.0	99	50.4	50.0	101	76 - 127	2	30
cis-1,3-Dichloropropene	ND	42.5	50.0	85	44.6	50.0	89	52 - 134	5	30
4-Methyl-2-pentanone (MIBK)	ND	46.1	50.0	92	47.5	50.0	95	60 - 141	3	30
Toluene	ND	47.2	50.0	94	48.6	50.0	97	79 - 125	3	30
trans-1,3-Dichloropropene	ND	42.1	50.0	84	44.0	50.0	88	64 - 123	4	30
1,1,2-Trichloroethane	ND	45.2	50.0	90	47.5	50.0	95	82 - 115	5	30
Tetrachloroethene	ND	46.1	50.0	92	49.9	50.0	100	67 - 137	8	30
2-Hexanone	ND	48.9	50.0	98	52.1	50.0	104	56 - 132	6	30
Dibromochloromethane	ND	50.2	50.0	100	54.9	50.0	110	72 - 128	9	30

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

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

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

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/18/15
 Date Received: 5/20/15
 Date Analyzed: 5/25/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150518
 Lab Code: R1503862-007

Units: µg/L
 Basis: NA

Analytical Method: 8260C

Analyte Name	Sample Result	BAT-EW-6-150518MS Matrix Spike RQ1505558-05			BAT-EW-6-150518DMS Duplicate Matrix Spike RQ1505558-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chlorobenzene	ND	49.0	50.0	98	52.5	50.0	105	76 - 125	7	30
Ethylbenzene	ND	45.0	50.0	90	47.9	50.0	96	72 - 134	6	30
m,p-Xylenes	ND	99.6	100	100	105	100	105	68 - 138	6	30
o-Xylene	ND	48.6	50.0	97	52.3	50.0	105	68 - 134	7	30
Styrene	ND	44.3	50.0	89	42.6	50.0	85	34 - 156	4	30
Bromoform	ND	51.7	50.0	103	52.8	50.0	106	58 - 133	2	30
1,1,2,2-Tetrachloroethane	ND	50.5	50.0	101	54.1	50.0	108	72 - 122	7	30

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

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

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

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pages

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/24/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446162

Lab Control Sample
RQ1505558-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	18.4	20.0	92	64 - 140
Vinyl Chloride	18.1	20.0	90	69 - 136
Chloroethane	18.2	20.0	91	71 - 128
Bromomethane	14.1	20.0	71	41 - 159
1,1-Dichloroethene	19.1	20.0	96	74 - 135
Acetone	16.1	20.0	80	51 - 146
Carbon Disulfide	17.1	20.0	85	63 - 141
Methylene Chloride	19.5	20.0	98	73 - 122
trans-1,2-Dichloroethene	19.5	20.0	98	78 - 124
1,1-Dichloroethane	20.4	20.0	102	76 - 128
cis-1,2-Dichloroethene	19.3	20.0	96	80 - 121
2-Butanone (MEK)	19.0	20.0	95	66 - 129
Chloroform	19.9	20.0	100	76 - 120
1,1,1-Trichloroethane	19.7	20.0	99	71 - 123
Carbon Tetrachloride	20.1	20.0	100	66 - 128
Benzene	19.4	20.0	97	76 - 118
1,2-Dichloroethane	20.3	20.0	102	72 - 130
Trichloroethene	22.2	20.0	111	76 - 123
1,2-Dichloropropane	19.6	20.0	98	80 - 119
Bromodichloromethane	20.7	20.0	104	79 - 122
cis-1,3-Dichloropropene	18.8	20.0	94	77 - 125
4-Methyl-2-pentanone (MIBK)	18.4	20.0	92	68 - 129
Toluene	19.2	20.0	96	77 - 120
trans-1,3-Dichloropropene	19.0	20.0	95	72 - 123
1,1,2-Trichloroethane	19.7	20.0	98	79 - 117
Tetrachloroethene	18.8	20.0	94	69 - 124
2-Hexanone	19.7	20.0	98	61 - 131
Dibromochloromethane	21.6	20.0	108	79 - 125
Chlorobenzene	20.6	20.0	103	80 - 121
Ethylbenzene	18.0	20.0	90	76 - 120
m,p-Xylenes	40.5	40.0	101	78 - 123
o-Xylene	19.7	20.0	98	77 - 131
Styrene	20.5	20.0	102	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/24/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446162

Lab Control Sample RQ1505558-03				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	22.2	20.0	111	65 - 138
1,1,2,2-Tetrachloroethane	19.1	20.0	95	74 - 127

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: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/25/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446166

Lab Control Sample
RQ1505539-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	20.0	20.0	100	64 - 140
Vinyl Chloride	20.5	20.0	102	69 - 136
Chloroethane	20.7	20.0	104	71 - 128
Bromomethane	15.7	20.0	79	41 - 159
1,1-Dichloroethene	21.1	20.0	105	74 - 135
Acetone	14.0	20.0	70	51 - 146
Carbon Disulfide	19.7	20.0	98	63 - 141
Methylene Chloride	20.0	20.0	100	73 - 122
trans-1,2-Dichloroethene	21.6	20.0	108	78 - 124
1,1-Dichloroethane	21.0	20.0	105	76 - 128
cis-1,2-Dichloroethene	21.1	20.0	105	80 - 121
2-Butanone (MEK)	18.7	20.0	93	66 - 129
Chloroform	21.1	20.0	105	76 - 120
1,1,1-Trichloroethane	21.0	20.0	105	71 - 123
Carbon Tetrachloride	21.3	20.0	107	66 - 128
Benzene	20.6	20.0	103	76 - 118
1,2-Dichloroethane	20.5	20.0	103	72 - 130
Trichloroethene	20.8	20.0	104	76 - 123
1,2-Dichloropropane	20.4	20.0	102	80 - 119
Bromodichloromethane	21.2	20.0	106	79 - 122
cis-1,3-Dichloropropene	19.8	20.0	99	77 - 125
4-Methyl-2-pentanone (MIBK)	17.1	20.0	85	68 - 129
Toluene	20.6	20.0	103	77 - 120
trans-1,3-Dichloropropene	19.5	20.0	97	72 - 123
1,1,2-Trichloroethane	19.5	20.0	97	79 - 117
Tetrachloroethene	21.1	20.0	105	69 - 124
2-Hexanone	18.9	20.0	94	61 - 131
Dibromochloromethane	21.2	20.0	106	79 - 125
Chlorobenzene	21.6	20.0	108	80 - 121
Ethylbenzene	19.8	20.0	99	76 - 120
m,p-Xylenes	44.5	40.0	111	78 - 123
o-Xylene	21.3	20.0	107	77 - 131
Styrene	22.0	20.0	110	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/25/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 446166

Lab Control Sample
RQ1505539-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	21.2	20.0	106	65 - 138
1,1,2,2-Tetrachloroethane	22.1	20.0	111	74 - 127

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

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

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Form 3C

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SuperSet Reference: 00023
15-0000333700 rev 00

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Analytical Report

Service Request: R1503862
Date Analyzed: 5/24/15 22:49

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Analyzed: 5/25/15 10:26

**Method Blank Summary
Volatile Organic Compounds by GC/MS**

Sample Name: Method Blank **Instrument ID:** R-MS-10
Lab Code: RQ1505539-04 **File ID:** I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\
Analytical Method: 8260C

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1505539-03	I:\ACQUDATA\MSVOA10\DATA\052515\A8853.D\	5/25/15 09:27
BAT-EW-4-150518	R1503862-005	I:\ACQUDATA\MSVOA10\DATA\052515\A8864.D\	5/25/15 15:32
BAT-EW-5-150518	R1503862-006	I:\ACQUDATA\MSVOA10\DATA\052515\A8865.D\	5/25/15 16:01
BAT-DUP-2-150518	R1503862-008	I:\ACQUDATA\MSVOA10\DATA\052515\A8866.D\	5/25/15 16:31
BAT-87-13(3)-150518	R1503862-009	I:\ACQUDATA\MSVOA10\DATA\052515\A8867.D\	5/25/15 17:00
BAT-DUP-1-150518	R1503862-010	I:\ACQUDATA\MSVOA10\DATA\052515\A8868.D\	5/25/15 17:30

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater-148900

Service Request: R1503862
Date Analyzed: 05/06/15 15:32

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\050615\A8250.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	26.7	114707	Pass
75	95	30	60	48.1	206805	Pass
95	95	100	100	100.0	430315	Pass
96	95	5	9	6.8	29200	Pass
173	174	0	2	1.0	3466	Pass
174	95	50	120	81.6	351083	Pass
175	174	5	9	7.4	25806	Pass
176	174	95	101	96.1	337237	Pass
177	176	5	9	6.4	21447	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Initial CalibrationICAL	0.5 ppb	I:\ACQUDATA\msvoa10\data\050615\A8252.D\	05/06/15 16:31	
Initial CalibrationICAL	1.0 ppb	I:\ACQUDATA\msvoa10\data\050615\A8253.D\	05/06/15 17:01	
Initial CalibrationICAL	2.0 ppb	I:\ACQUDATA\msvoa10\data\050615\A8254.D\	05/06/15 17:31	
Initial CalibrationICAL	5.0 ppb	I:\ACQUDATA\msvoa10\data\050615\A8255.D\	05/06/15 18:01	
Initial CalibrationICAL	20 ppb	I:\ACQUDATA\msvoa10\data\050615\A8256.D\	05/06/15 19:46	
Initial CalibrationICAL	50 ppb	I:\ACQUDATA\msvoa10\data\050615\A8257.D\	05/06/15 19:00	
Initial CalibrationICAL	100 ppb	I:\ACQUDATA\msvoa10\data\050615\A8258.D\	05/06/15 19:30	
Initial CalibrationICAL	150 ppb	I:\ACQUDATA\msvoa10\data\050615\A8259.D\	05/06/15 20:01	
Initial CalibrationICAL	200 ppb	I:\ACQUDATA\msvoa10\data\050615\A8260.D\	05/06/15 20:31	

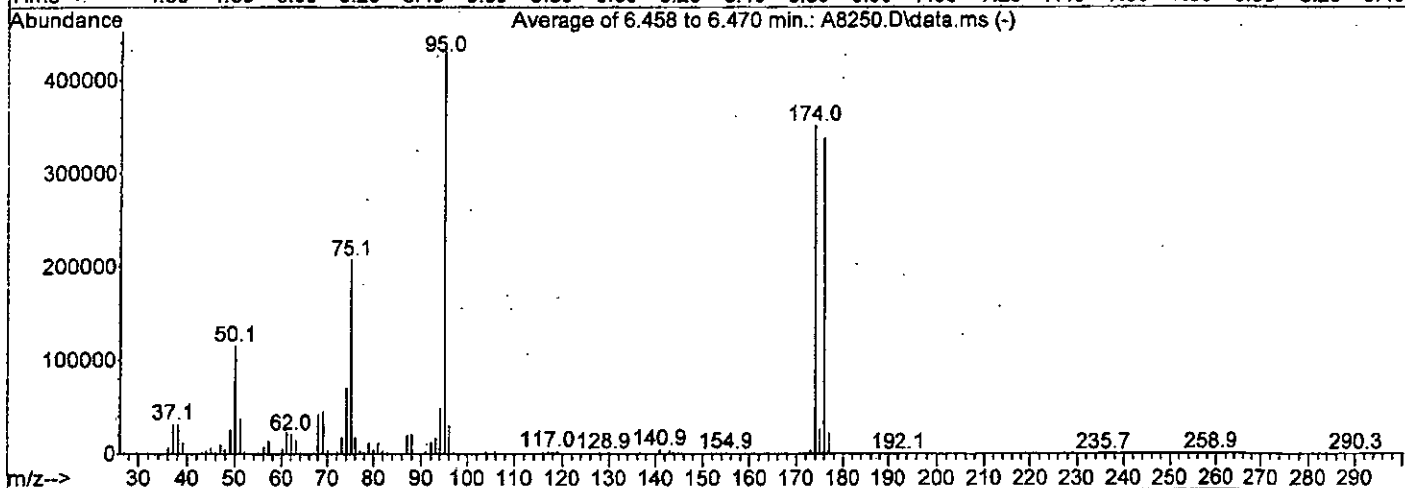
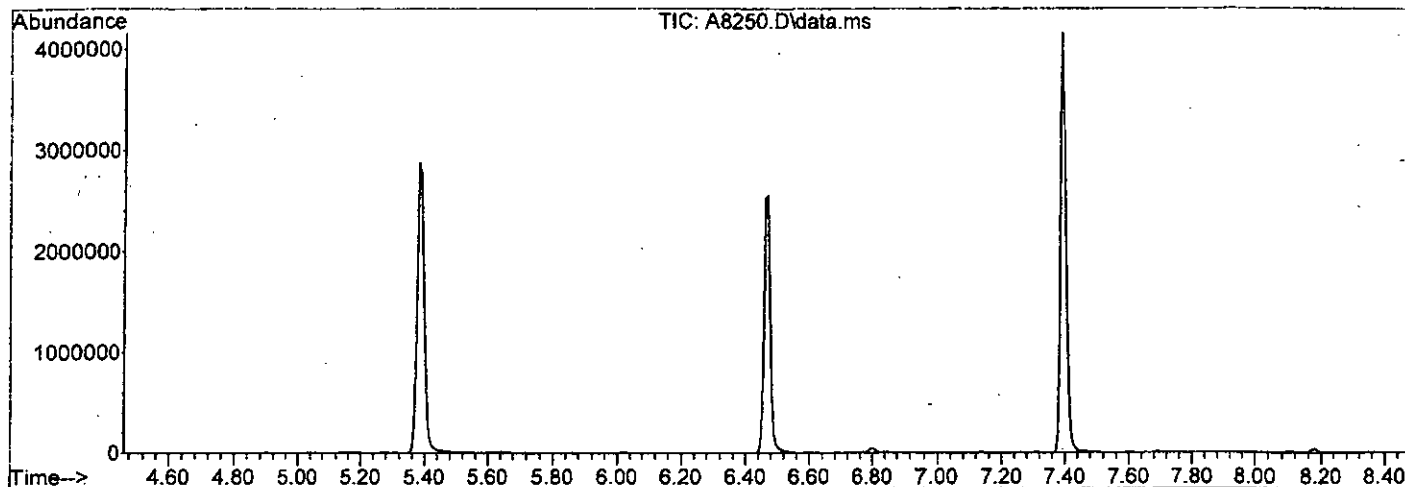
Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8250.D
 Acq On : 6 May 2015 3:32 pm
 Operator : F. NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T050615.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

5/7/15



AutoFind: Scans 389, 390, 391; Background Corrected with Scan 384

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	114707	PASS
75	95	30	60	48.1	206805	PASS
95	95	100	100	100.0	430315	PASS
96	95	5	9	6.8	29200	PASS
173	174	0.00	2	1.0	3466	PASS
174	95	50	120	81.6	351083	PASS
175	174	5	9	7.4	25806	PASS
176	174	95	101	96.1	337237	PASS
177	176	5	9	6.4	21447	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/24/15 20:53

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\052415\A8829.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 446162

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	27.26	109451	Pass
75	95	30	60	48.40	194347	Pass
95	95	100	100	100.00	401515	Pass
96	95	5	9	5.89	23640	Pass
173	174	0	2	1.02	3642	Pass
174	95	50	120	88.69	356117	Pass
175	174	5	9	7.28	25939	Pass
176	174	95	101	96.62	344085	Pass
177	176	5	9	6.51	22416	Pass

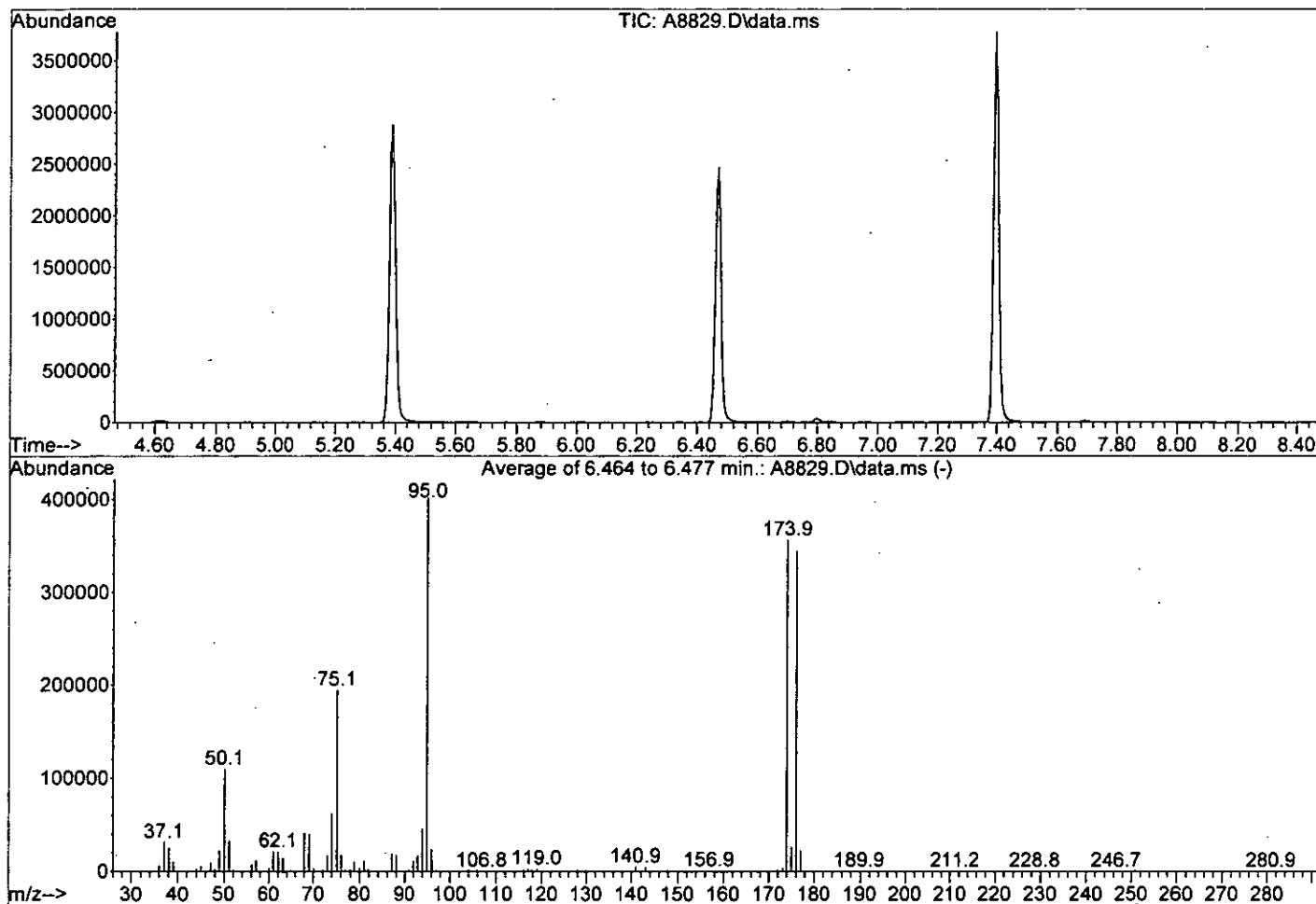
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1505558-02	I:\ACQUDATA\MSVOA10\DATA\052415\A8830.D\	5/24/15 21:20	
Lab Control Sample	RQ1505558-03	I:\ACQUDATA\MSVOA10\DATA\052415\A8831.D\	5/24/15 21:50	
Method Blank	RQ1505558-04	I:\ACQUDATA\MSVOA10\DATA\052415\A8833.D\	5/24/15 22:49	
TRIP BLANK	R1503862-012	I:\ACQUDATA\MSVOA10\DATA\052415\A8834.D\	5/24/15 23:19	
BAT-FB1-150518	R1503862-001	I:\ACQUDATA\MSVOA10\DATA\052415\A8835.D\	5/24/15 23:48	
BAT-FB2-150518	R1503862-002	I:\ACQUDATA\MSVOA10\DATA\052415\A8836.D\	5/25/15 00:18	
BAT-EW-2-150518	R1503862-003	I:\ACQUDATA\MSVOA10\DATA\052415\A8837.D\	5/25/15 00:47	
BAT-EW-3-150518	R1503862-004	I:\ACQUDATA\MSVOA10\DATA\052415\A8838.D\	5/25/15 01:17	
BAT-EW-6-150518	R1503862-007	I:\ACQUDATA\MSVOA10\DATA\052415\A8839.D\	5/25/15 01:47	
BAT-EW-6-150518MS	RQ1505558-05	I:\ACQUDATA\MSVOA10\DATA\052415\A8847.D\	5/25/15 05:43	
BAT-EW-6-150518DMS	RQ1505558-06	I:\ACQUDATA\MSVOA10\DATA\052415\A8848.D\	5/25/15 06:13	

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8829.D
 Acq On : 24 May 2015 8:53 pm
 Operator : F.Naegler
 Sample : TUNE *20140525-01*
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA10

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T050615.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

485/25/1.5

AutoFind: Scans 390, 391, 392; Background Corrected with Scan 384

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	27.3	109451	PASS
75	95	30	60	48.4	194347	PASS
95	95	100	100	100.0	401515	PASS
96	95	5	9	5.9	23640	PASS
173	174	0.00	2	1.0	3642	PASS
174	95	50	120	88.7	356117	PASS
175	174	5	9	7.3	25939	PASS
176	174	95	101	96.6	344085	PASS
177	176	5	9	6.5	22416	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/25/15 08:28

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa10\data\052515\A8851.D\
Instrument ID: R-MS-10

Analytical Method: 8260C
Analysis Lot: 446166

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	26.61	109941	Pass
75	95	30	60	46.85	193547	Pass
95	95	100	100	100.00	413120	Pass
96	95	5	9	6.69	27619	Pass
173	174	0	2	1.12	4075	Pass
174	95	50	120	88.00	363541	Pass
175	174	5	9	7.54	27408	Pass
176	174	95	101	98.03	356373	Pass
177	176	5	9	6.91	24611	Pass

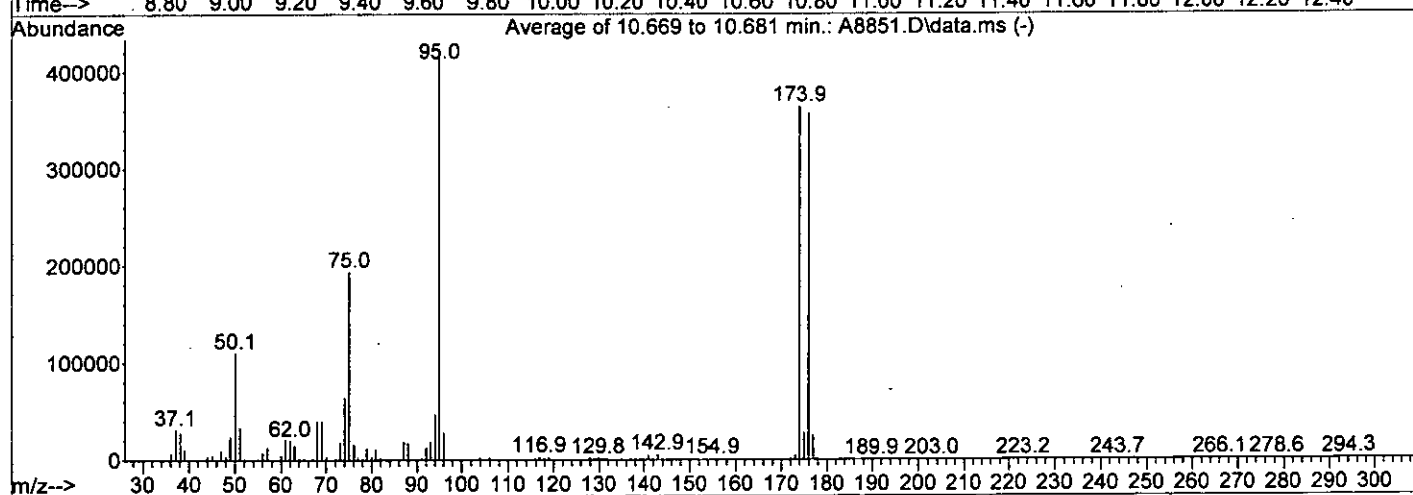
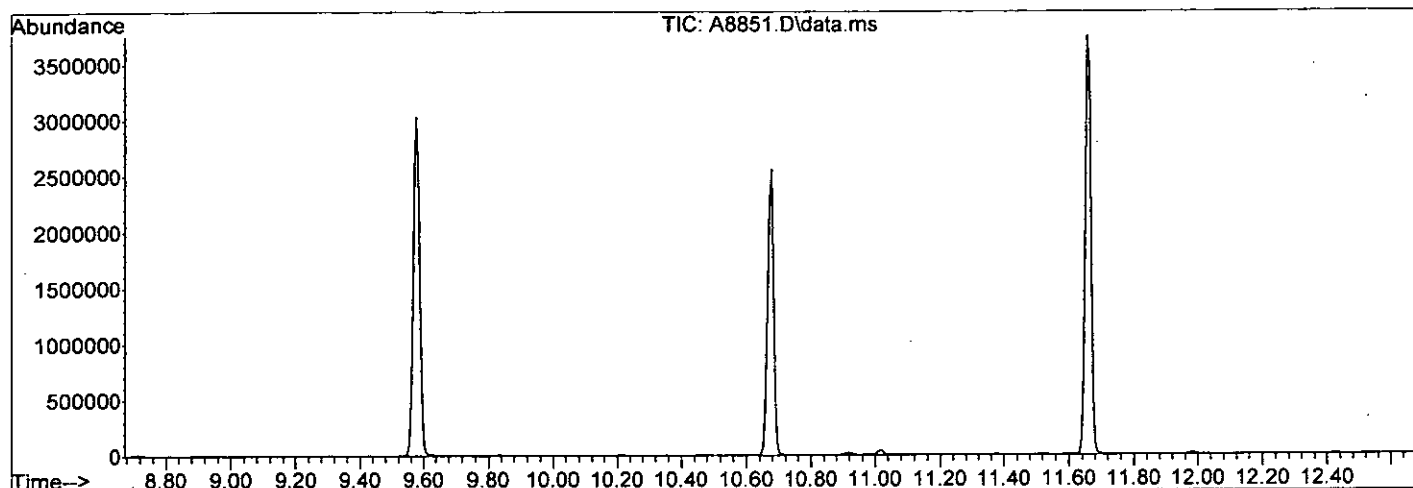
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1505539-02	I:\ACQUDATA\MSVOA10\DATA\052515\A8852.D\	5/25/15 08:57	
Lab Control Sample	RQ1505539-03	I:\ACQUDATA\MSVOA10\DATA\052515\A8853.D\	5/25/15 09:27	
Method Blank	RQ1505539-04	I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\	5/25/15 10:26	
BAT-EW-4-150518	R1503862-005	I:\ACQUDATA\MSVOA10\DATA\052515\A8864.D\	5/25/15 15:32	
BAT-EW-5-150518	R1503862-006	I:\ACQUDATA\MSVOA10\DATA\052515\A8865.D\	5/25/15 16:01	
BAT-DUP-2-150518	R1503862-008	I:\ACQUDATA\MSVOA10\DATA\052515\A8866.D\	5/25/15 16:31	
BAT-87-13(3)-150518	R1503862-009	I:\ACQUDATA\MSVOA10\DATA\052515\A8867.D\	5/25/15 17:00	
BAT-DUP-1-150518	R1503862-010	I:\ACQUDATA\MSVOA10\DATA\052515\A8868.D\	5/25/15 17:30	

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8851.D
 Acq On : 25 May 2015 8:28 am
 Operator : K.Ruest
 Sample : TUNE *RQ150538-01, 539-01* Inst : MSVOA10
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Title : MS#10 - 8260B WATERS 10mL Purge
 Last Update : Thu May 07 14:25:48 2015

125/25/15



AutoFind: Scans 1580, 1581, 1582; Background Corrected with Scan 1574

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	26.6	109941	PASS
75	95	30	60	46.9	193547	PASS
95	95	100	100	100.0	413120	PASS
96	95	5	9	6.7	27619	PASS
173	174	0.00	2	1.1	4075	PASS
174	95	50	120	88.0	363541	PASS
175	174	5	9	7.5	27408	PASS
176	174	95	101	98.0	356373	PASS
177	176	5	9	6.9	24611	PASS

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/24/15 21:20

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

File ID: I:\ACQUDATA\MSVOA10\DATA\052415\A8830.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1505558-02
Analysis Lot: 446162
Signal ID:

		Pentafluorobenzene	
		Area	RT
Results ==>		998,279	4.96
Upper Limit ==>		1,996,558	5.46
Lower Limit ==>		499,140	4.46
ICAL Result ==>		960,841	4.97

Associated Analyses

Lab Control Sample	RQ1505558-03	973,748	4.97
Method Blank	RQ1505558-04	916,036	4.97
TRIP BLANK	R1503862-012	915,962	4.96
BAT-FB1-150518	R1503862-001	887,031	4.97
BAT-FB2-150518	R1503862-002	918,734	4.97
BAT-EW-2-150518	R1503862-003	929,997	4.96
BAT-EW-3-150518	R1503862-004	933,043	4.97
BAT-EW-6-150518	R1503862-007	938,865	4.97
BAT-EW-6-150518MS	RQ1505558-05	976,436	4.97
BAT-EW-6-150518DMS	RQ1505558-06	972,179	4.96

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/25/15 08:57

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

File ID: I:\ACQUDATA\MSVOA10\DATA\052515\A8852.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1505539-02
Analysis Lot: 446166
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
Results ==>		777,811	11.66	1,458,844	6.15	1,345,766	9.58
Upper Limit ==>		1,555,622	12.16	2,917,688	6.65	2,691,532	10.08
Lower Limit ==>		388,906	11.16	729,422	5.65	672,883	9.08
ICAL Result ==>		825,795	11.66	1,474,627	6.15	1,395,683	9.58
<i>Associated Analyses</i>							
Lab Control Sample	RQ1505539-03	750,752	11.66	1,442,405	6.15	1,319,036	9.58
Method Blank	RQ1505539-04	729,970	11.66	1,411,218	6.15	1,301,936	9.58
BAT-EW-4-150518	R1503862-005	728,273	11.66	1,408,982	6.15	1,288,156	9.58
BAT-EW-5-150518	R1503862-006	723,069	11.66	1,425,412	6.15	1,286,115	9.58
BAT-DUP-2-150518	R1503862-008	720,266	11.66	1,441,279	6.15	1,312,413	9.58
BAT-87-13(3)-150518	R1503862-009	742,060	11.66	1,435,177	6.15	1,308,216	9.58
BAT-DUP-1-150518	R1503862-010	715,938	11.66	1,414,939	6.15	1,293,708	9.58

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/25/15 08:57

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

File ID: I:\ACQUDATA\MSVOA10\DATA\052515\A8852.D\
Instrument ID: R-MS-10
Analytical Method: 8260C

Lab Code: RQ1505539-02
Analysis Lot: 446166
Signal ID:

Pentafluorobenzene			
	Area	RT	
Results ==>	967,237	4.97	
Upper Limit ==>	1,934,474	5.47	
Lower Limit ==>	483,619	4.47	
ICAL Result ==>	960,841	4.97	

Associated Analyses

Lab Control Sample	RQ1505539-03	946,415	4.97
Method Blank	RQ1505539-04	908,841	4.97
BAT-EW-4-150518	R1503862-005	901,520	4.97
BAT-EW-5-150518	R1503862-006	917,711	4.97
BAT-DUP-2-150518	R1503862-008	941,074	4.96
BAT-87-13(3)-150518	R1503862-009	926,967	4.96
BAT-DUP-1-150518	R1503862-010	906,323	4.97

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

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VOLATILE ORGANICS SAMPLE DATA

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

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/18/15 0925
 Date Received: 5/20/15
 Date Analyzed: 5/25/15 00:18

Sample Name: BAT-FB2-150518
 Lab Code: R1503862-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8836.D\

Analysis Lot: 446162
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 0925
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:18

Sample Name: BAT-FB2-150518
Lab Code: R1503862-002

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8836.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/25/15 00:18	
Toluene-d8	96	87-121	5/25/15 00:18	
Dibromofluoromethane	100	89-119	5/25/15 00:18	

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\

Data File : A8836.D

Acq On : 25 May 2015 12:18 am

Operator : F.Naegler

Sample : R1503862-002|1.0

Inst : MSVOA10

Misc : CBI 13429 T4

ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 25 00:33:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	918734	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1422444	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1296751	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	723358	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrfilmethane	4.829	113	445624	50.20	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.40%	
46) surr1,1,2-dichloroetha...	5.414	65	465897	51.07	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	102.14%	
64) SURR3,Toluene-d8	8.042	98	1632055	48.23	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.46%	
69) SURR2,BFB	10.675	95	625624	45.49	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	90.98%	
Target Compounds						
15) Acetone	2.226	43	2580	Below Cal		Qvalue 92
16) 2-Propanol	2.335	45	471	0.98 ug/L #		32
19) Acetonitrile	2.433	40	525	1.24 ug/L #		11
88) Cyclohexanone	10.675	55	2083	4.99 ug/L #		12

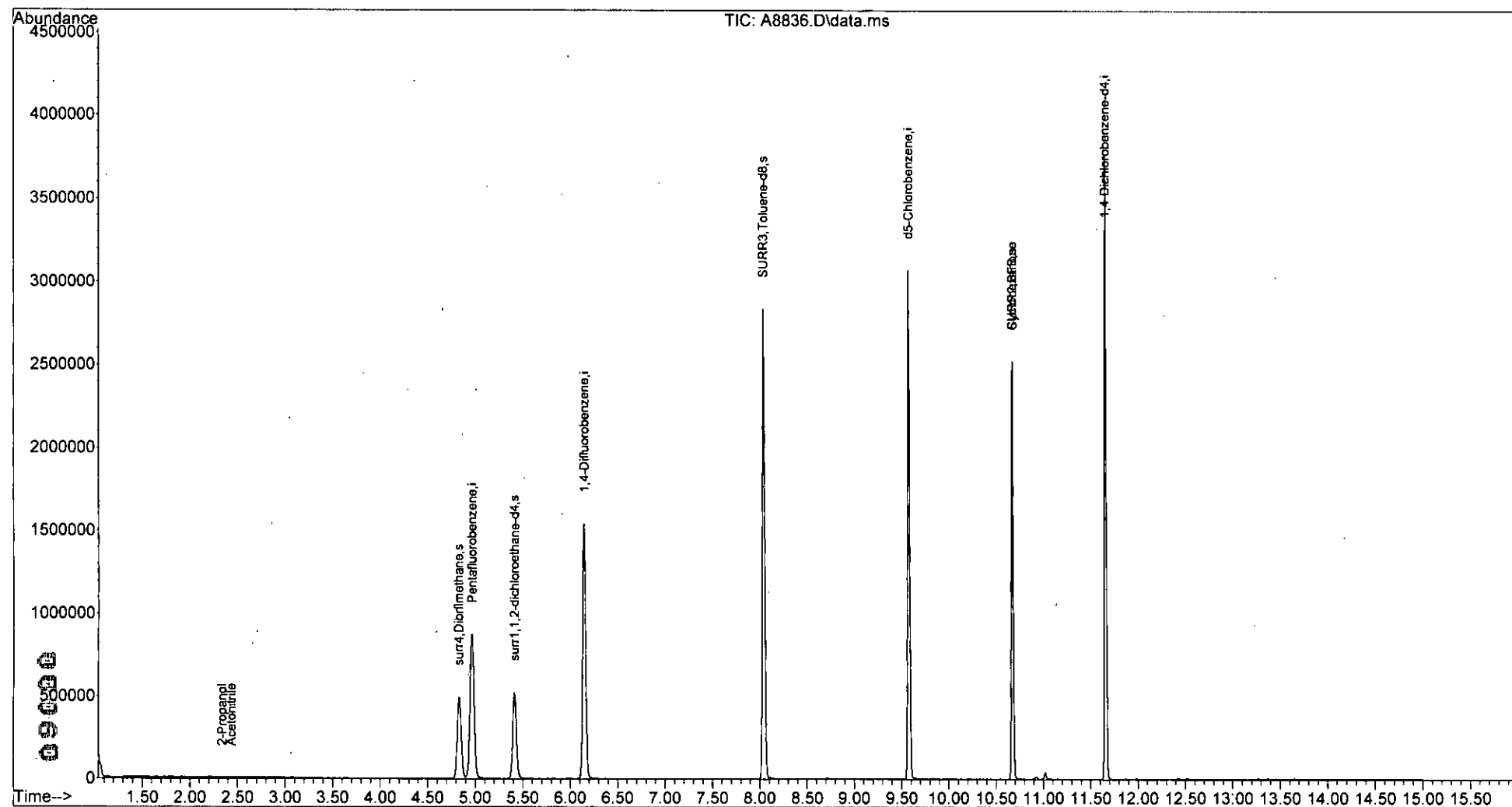
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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5/26/15

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\
 Data File : A8836.D
 Acq On : 25 May 2015 12:18 am
 Operator : F.Naegler
 Sample : R1503862-002|1.0
 Misc : CBI 13429 T4
 ALS Vial : 32 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 00:33:33 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1000
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:47

Sample Name: BAT-EW-2-150518
Lab Code: R1503862-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8837.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	0.83 J	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.4	1.0	0.33	
75-34-3	1,1-Dichloroethane	3.4	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	9.6	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.2	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	3.2	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	4.1	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Tectron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-2-150518
Lab Code: R1503862-003

Service Request: R1503862
Date Collected: 5/18/15 1000
Date Received: 5/20/15
Date Analyzed: 5/25/15 00:47

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUADATA\MSVOA10\DATA\052415\A8837.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	5/25/15 00:47	
Toluene-d8	97	87-121	5/25/15 00:47	
Dibromofluoromethane	99	89-119	5/25/15 00:47	

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\
 Data File : A8837.D
 Acq On : 25 May 2015 12:47 am
 Operator : F.Naegler
 Sample : R1503862-00311.0
 Misc : CBI 13429 T4
 ALS Vial : 33 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 11:01:54 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	929997	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1450044	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1305751	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	737713	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4, Dibrflmethane	4.829	113	446440	49.34	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.68%	
46) surr1, 1,2-dichloroetha...	5.414	65	480838	51.71	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	103.42%	
64) SURR3, Toluene-d8	8.042	98	1667530	48.34	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.68%	
69) SURR2, BFB	10.675	95	614779	43.85	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	87.70%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.348	62	10668	0.83	ug/L	88
7) Freon 21	1.762	67	71448	4.63	ug/L	95
8) Trichlorofluoromethane	1.811	101	14271	1.15	ug/L	98
10) Freon 123a	2.018	67	26863	2.85	ug/L	94
14) Freon 113	2.195	101	41835	5.84	ug/L	91
15) Acetone	2.226	43	3202	Below Cal		68
26) trans-1,2-Dichloroethene	2.860	96	11120	1.44	ug/L #	78
27) 1,1-Dicethane	3.305	63	57772	3.36	ug/L	96
33) cis-1,2-Dichloroethene	4.055	96	88352	9.56	ug/L	98
39) Chloroform	4.567	83	18748	1.22	ug/L	87
40) 1,1,1-Trichloroethane	4.847	97	42052	3.23	ug/L	93
53) Trichloroethene	6.499	130	40998	4.08	ug/L	90
59) Bromodichloromethane	7.170	83	2629	0.23	ug/L	89

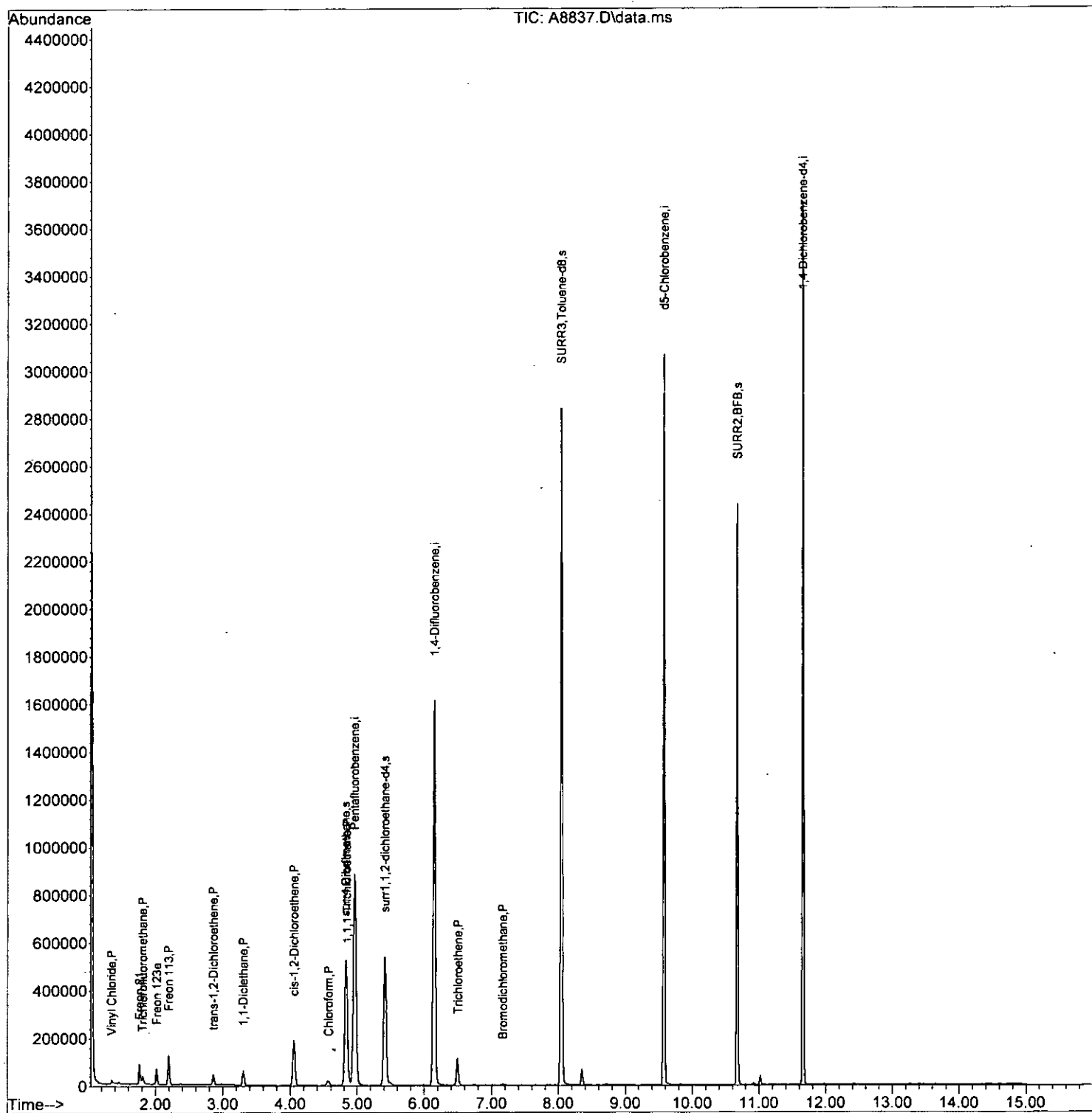
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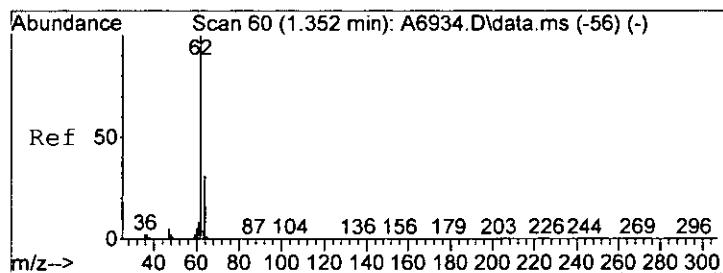
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Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\
Data File : A8837.D
Acq On : 25 May 2015 12:47 am
Operator : F.Naegler
Sample : R1503862-003|1.0
Misc : CBI 13429 T4
ALS Vial : 33 Sample Multiplier: 1

Inst : MSVOA10

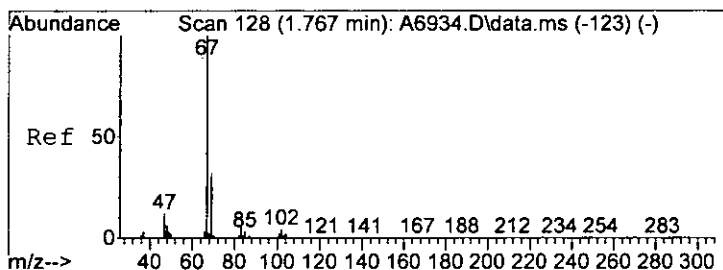
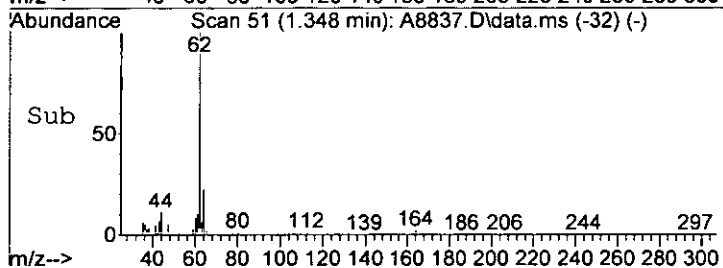
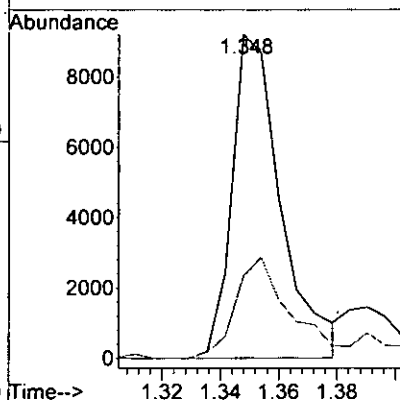
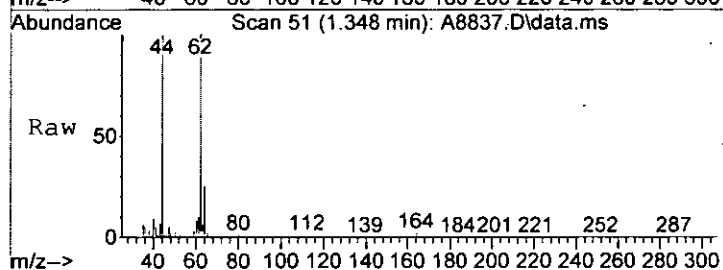
Quant Time: May 26 11:01:54 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





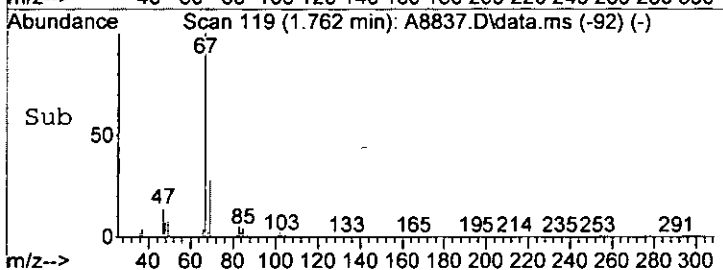
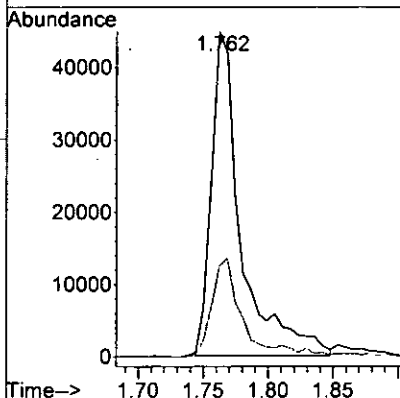
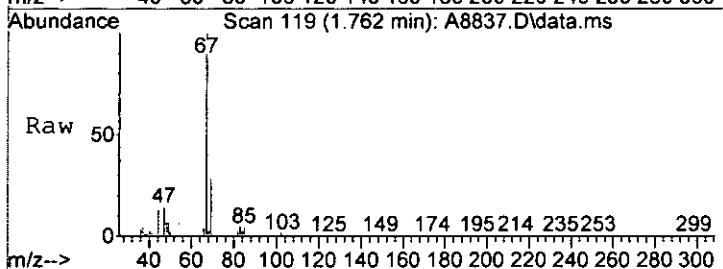
#4
 Vinyl Chloride
 Concen: 0.83 ug/L
 RT: 1.348 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

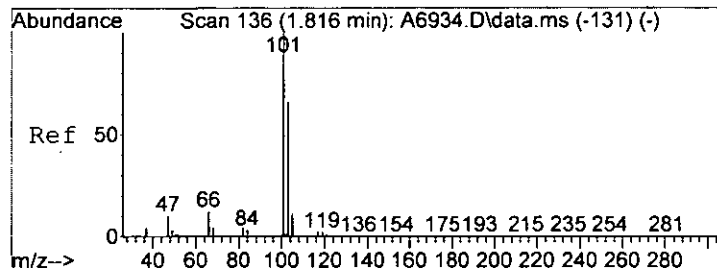
Tgt Ion: 62 Resp: 10668
 Ion Ratio Lower Upper
 62 100
 64 25.3 11.7 51.7



#7
 Freon 21
 Concen: 4.63 ug/L
 RT: 1.762 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

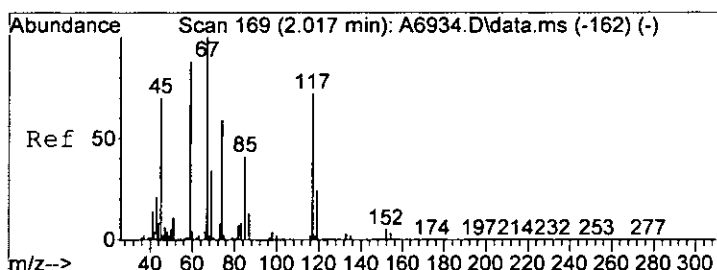
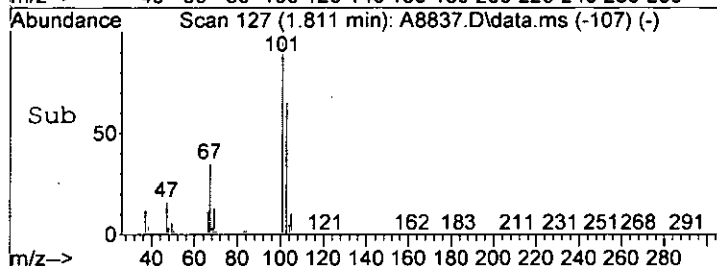
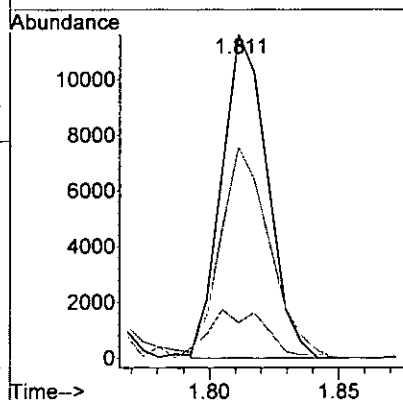
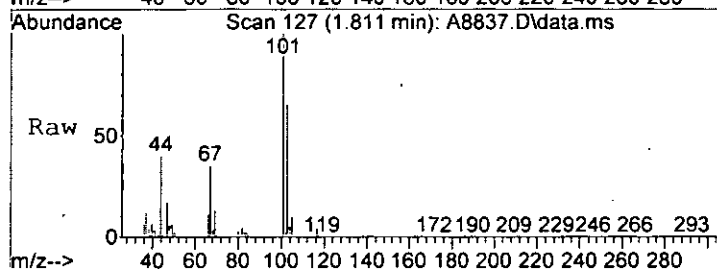
Tgt Ion: 67 Resp: 71448
 Ion Ratio Lower Upper
 67 100
 69 27.8 10.4 50.4





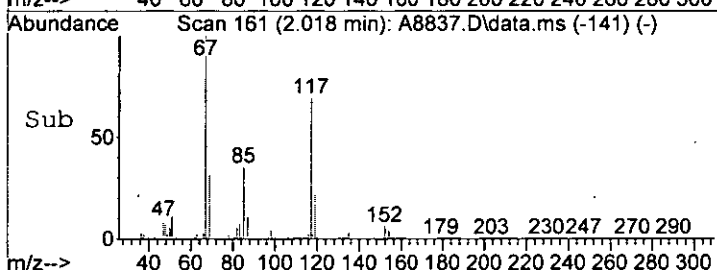
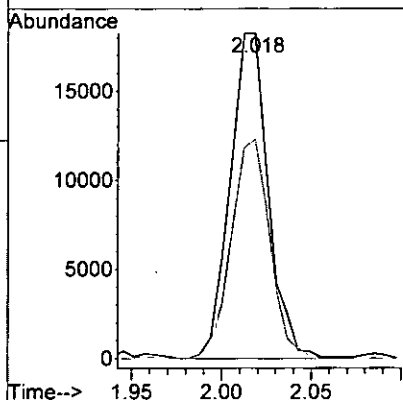
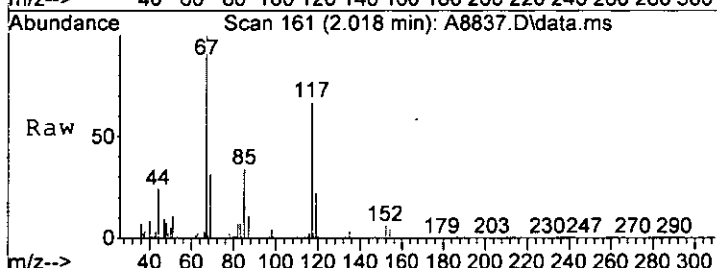
#8
 Trichlorofluoromethane
 Concen: 1.15 ug/L
 RT: 1.811 min Scan# 127
 Delta R.T. 0.000 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

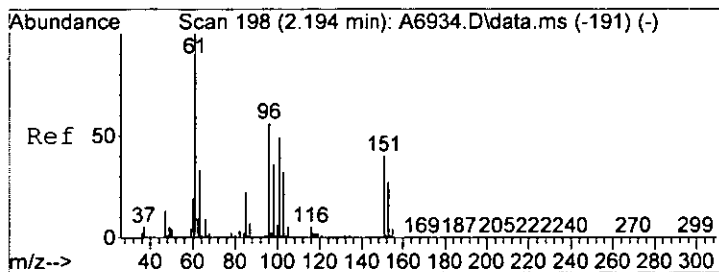
Tgt Ion	Resp	Lower	Upper
101	14271		
103	65.2	43.9	83.9
66	10.8	0.0	33.3



#10
 Freon 123a
 Concen: 2.85 ug/L
 RT: 2.018 min Scan# 161
 Delta R.T. 0.006 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

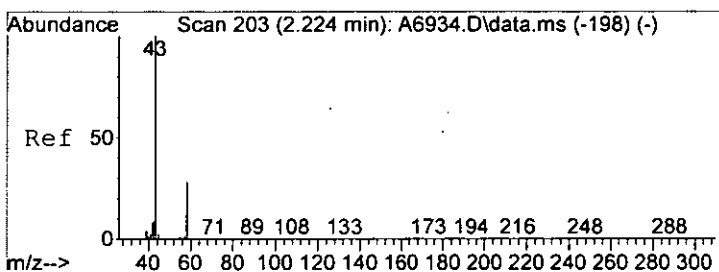
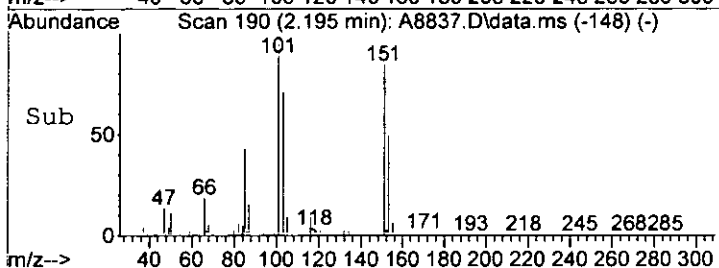
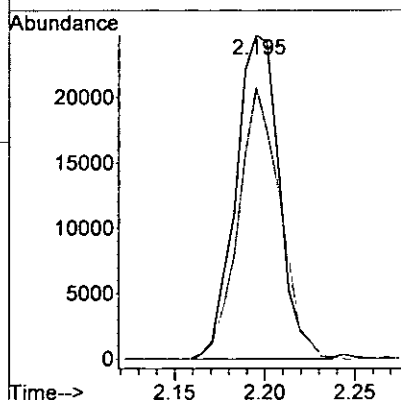
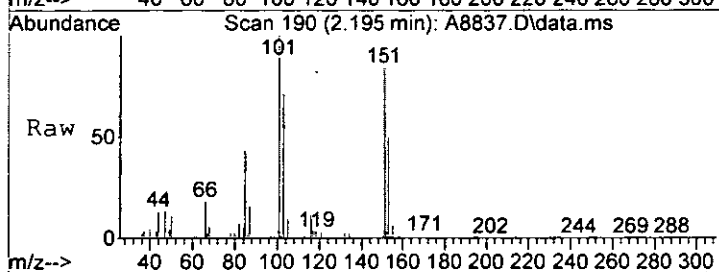
Tgt Ion	Resp	Lower	Upper
67	26863		
117	67.3	52.5	92.5





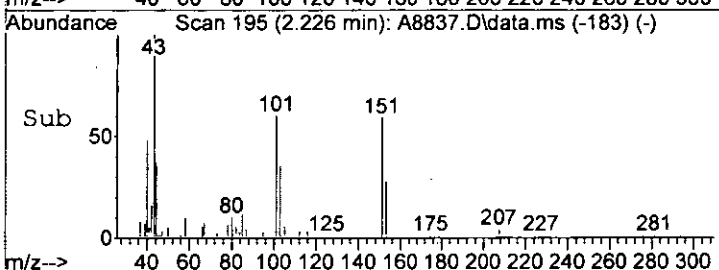
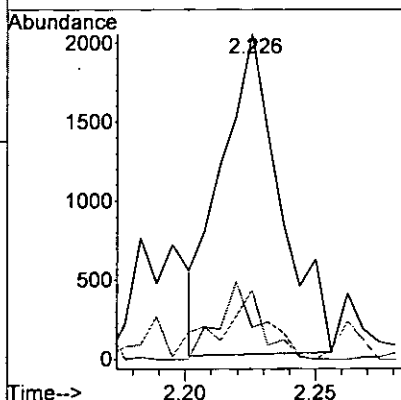
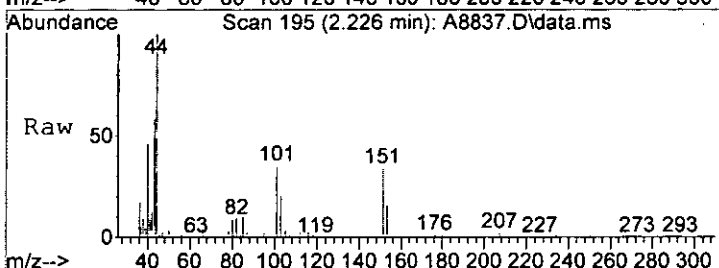
#14
Freon 113
Concen: 5.84 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am

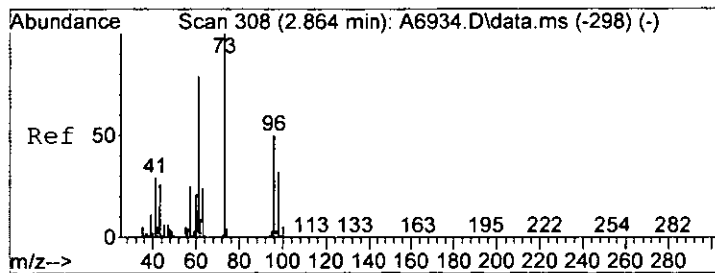
Tgt Ion: 101 Resp: 41835
Ion Ratio Lower Upper
101 100
151 83.9 56.3 96.3



#15
Acetone
Concen: Below Cal
RT: 2.226 min Scan# 195
Delta R.T. 0.001 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am

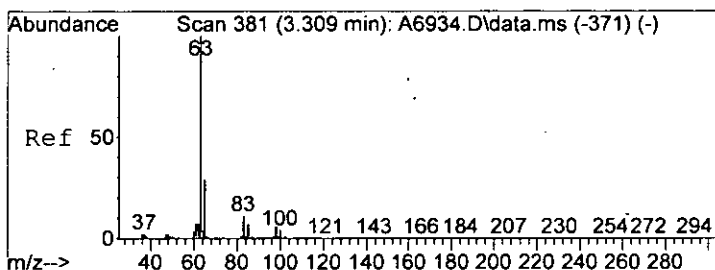
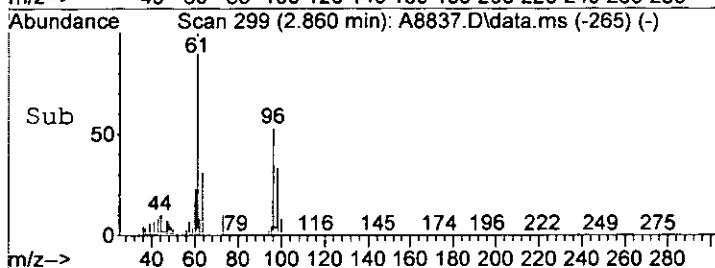
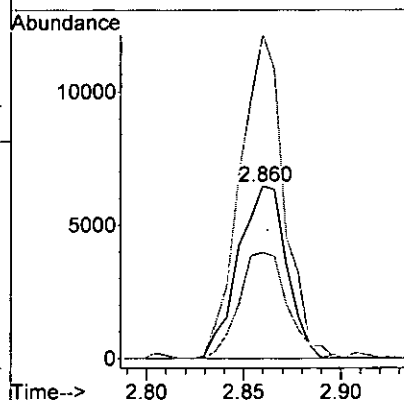
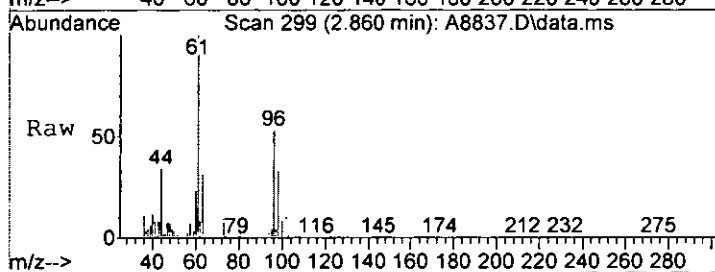
Tgt Ion: 43 Resp: 3202
Ion Ratio Lower Upper
43 100
58 9.8 4.8 44.8
42 21.2 0.0 28.0





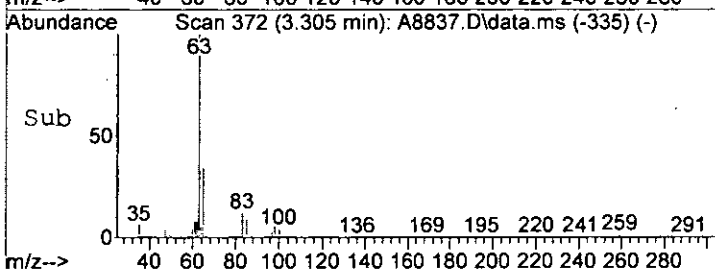
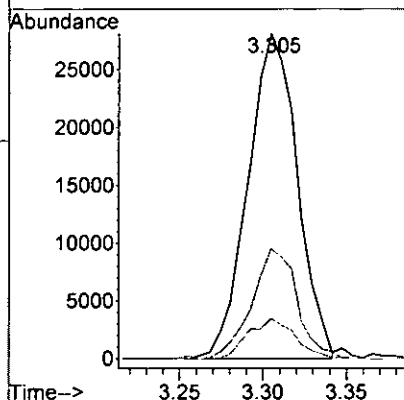
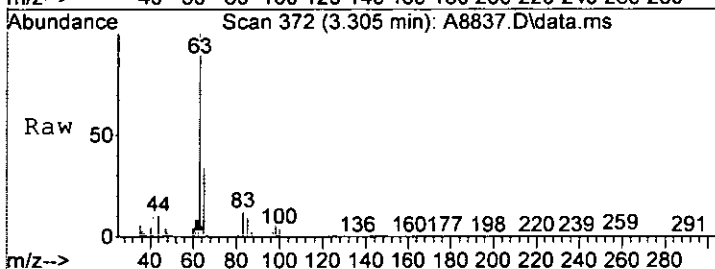
#26
trans-1,2-Dichloroethene
Concen: 1.44 ug/L
RT: 2.860 min Scan# 299
Delta R.T. 0.000 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am

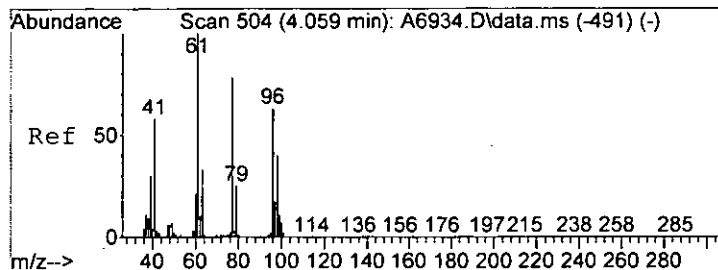
Tgt Ion: 96 Resp: 11120
Ion Ratio Lower Upper
96 100
98 61.5 44.7 84.7
61 188.2 130.9 170.9#



#27
1,1-Dicethane
Concen: 3.36 ug/L
RT: 3.305 min Scan# 372
Delta R.T. 0.000 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am

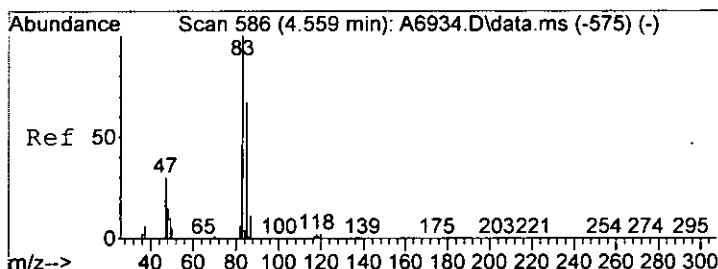
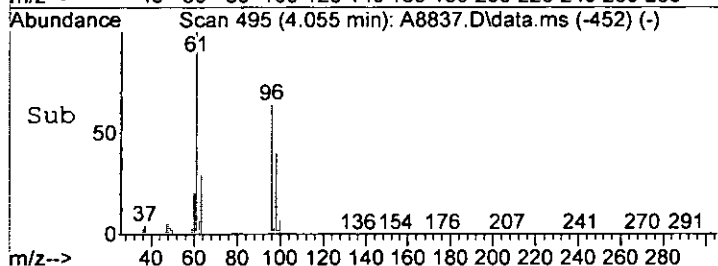
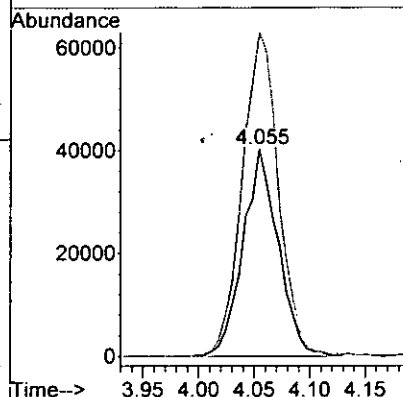
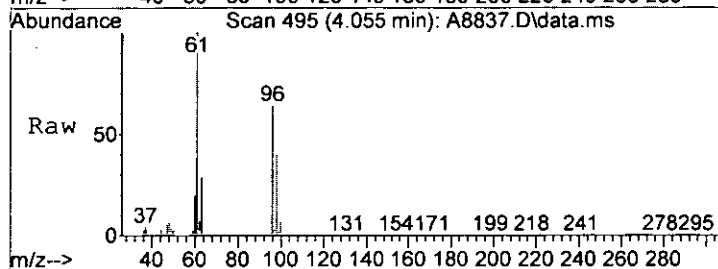
Tgt Ion: 63 Resp: 57772
Ion Ratio Lower Upper
63 100
65 33.9 11.0 51.0
83 12.3 0.0 33.3





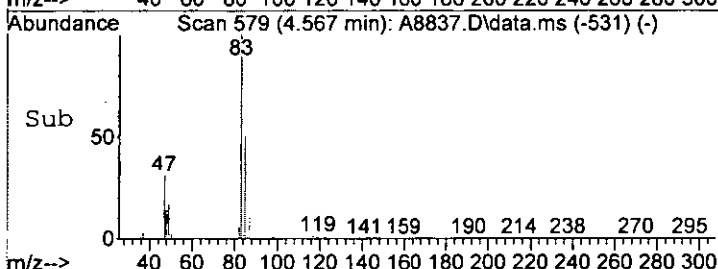
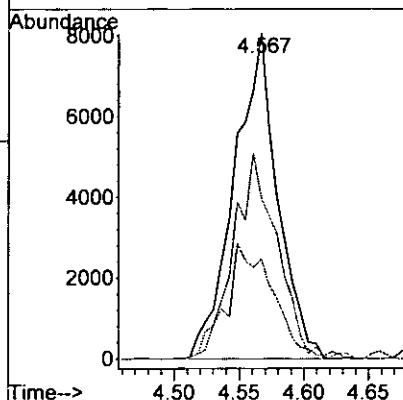
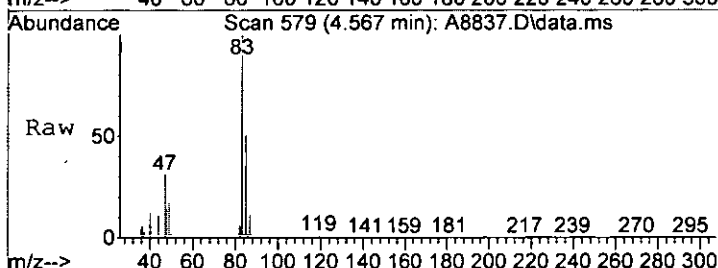
#33
 cis-1,2-Dichloroethene
 Concen: 9.56 ug/L
 RT: 4.055 min Scan# 495
 Delta R.T. 0.000 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

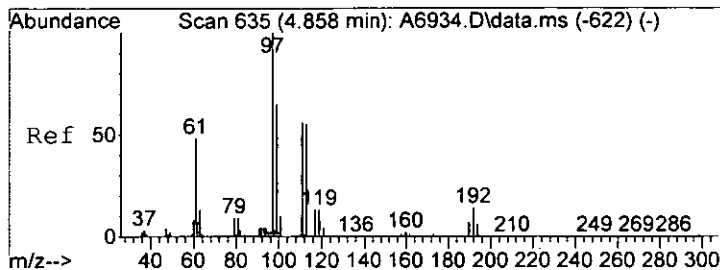
Tgt Ion: 96 Resp: 88352
 Ion Ratio Lower Upper
 96 100
 61 156.3 138.8 178.8



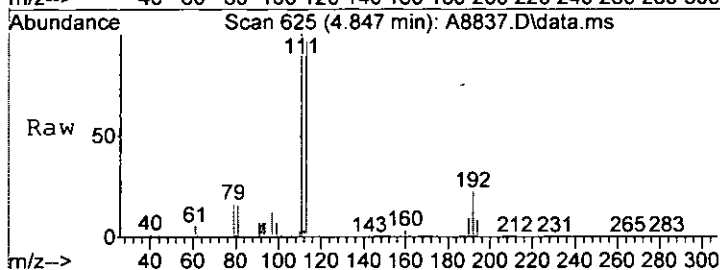
#39
 Chloroform
 Concen: 1.22 ug/L
 RT: 4.567 min Scan# 579
 Delta R.T. 0.006 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am

Tgt Ion: 83 Resp: 18748
 Ion Ratio Lower Upper
 83 100
 85 49.5 44.0 84.0
 47 30.8 9.9 49.9

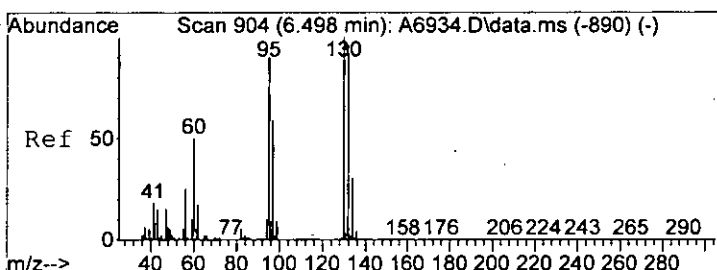
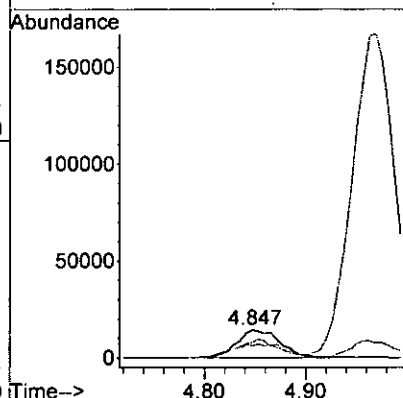
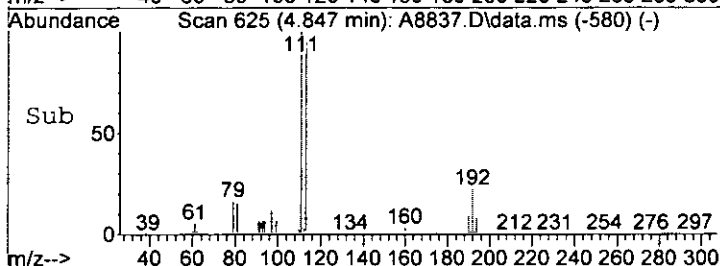




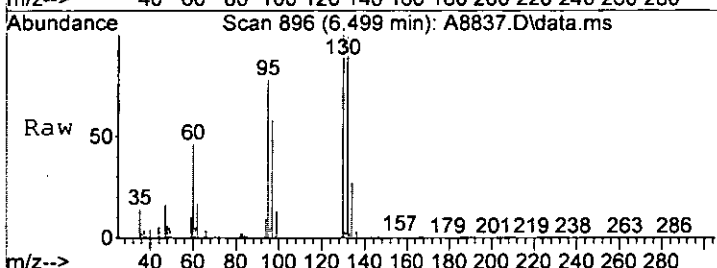
#40
1,1,1-Trichloroethane
Concen: 3.23 ug/L
RT: 4.847 min Scan# 625
Delta R.T. -0.006 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am



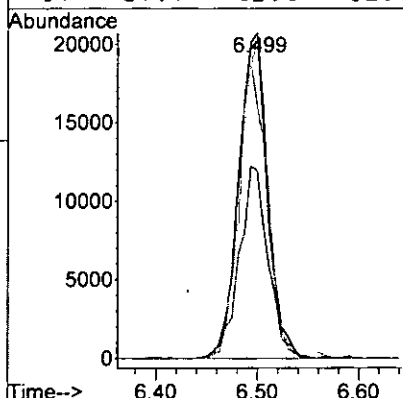
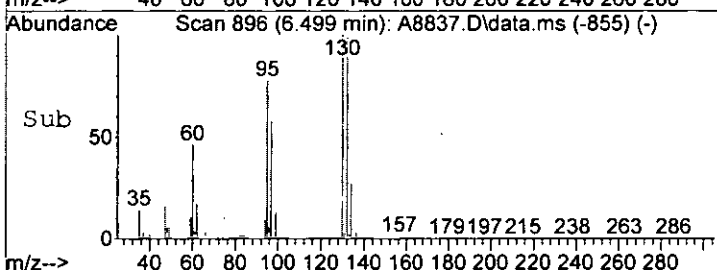
Tgt Ion: 97 Resp: 42052
Ion Ratio Lower Upper
97 100
99 53.7 40.9 80.9
61 43.1 25.2 65.2

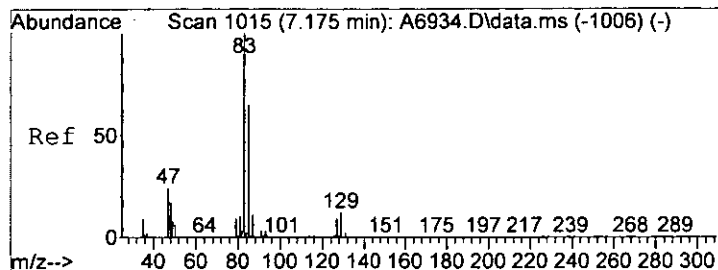


#53
Trichloroethene
Concen: 4.08 ug/L
RT: 6.499 min Scan# 896
Delta R.T. 0.000 min
Lab File: A8837.D
Acq: 25 May 2015 12:47 am

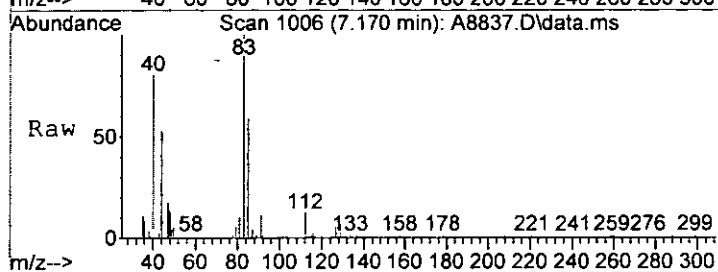


Tgt Ion: 130 Resp: 40998
Ion Ratio Lower Upper
130 100
132 99.0 76.6 116.6
95 77.5 76.5 116.5
97 57.7 42.4 82.4

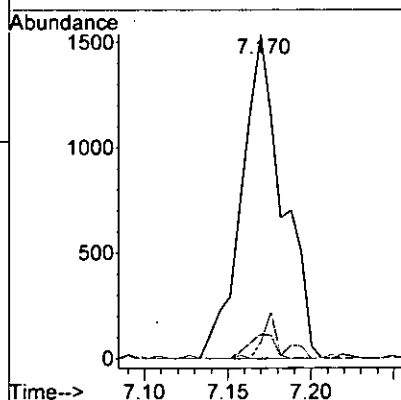
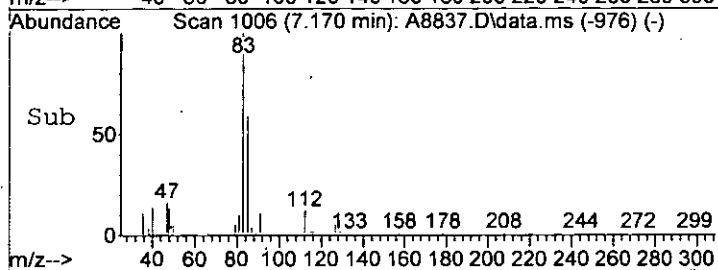




#59
 Bromodichloromethane
 Concen: 0.23 ug/L
 RT: 7.170 min Scan# 1006
 Delta R.T. -0.006 min
 Lab File: A8837.D
 Acq: 25 May 2015 12:47 am



Tgt Ion: 83 Resp: 2629
 Ion Ratio Lower Upper
 83 100
 129 7.4 0.0 31.3
 127 4.9 0.0 29.1



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-3-150518
Lab Code: R1503862-004

Service Request: R1503862
Date Collected: 5/18/15 1015
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:17

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8838.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	1200	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	5.7 J	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	9.8 J	10	3.4	
75-34-3	1,1-Dichloroethane	12	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1900	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	10 U	10	2.5	
71-55-6	1,1,1-Trichloroethane	15	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	6.0 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1015
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:17

Sample Name: BAT-EW-3-150518
Lab Code: R1503862-004

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8838.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	5/25/15 01:17	
Toluene-d8	97	87-121	5/25/15 01:17	
Dibromofluoromethane	102	89-119	5/25/15 01:17	

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8838.D
 Acq On : 25 May 2015 1:17 am
 Operator : F.Naegler
 Sample : R1503862-004|10.0
 Misc : CBI 13429 T4
 ALS Vial : 34 Sample Multiplier: 1

Inst : MSVOA10.

Quant Time: May 26 11:06:32 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	933043	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1441950	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1315283	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	725594	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	456874	50.77	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	101.54%
46) surr1,1,2-dichloroetha...	5.414	65	472795	51.13	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	102.26%
64) SURR3,Toluene-d8	8.041	98	1657604	48.32	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	96.64%
69) SURR2,BFB	10.675	95	627029	44.97	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	89.94%
Target Compounds						
4) Vinyl Chloride	1.348	62	1540205	119.22	ug/L	98
7) Freon 21	1.762	67	38872	2.51	ug/L	97
8) Trichlorofluoromethane	1.817	101	5291	0.42	ug/L	92
10) Freon 123a	2.012	67	18320	1.94	ug/L	88
13) 1,1-Dicethene	2.195	96	3887	0.57	ug/L #	86
14) Freon 113	2.195	101	26319	3.66	ug/L	100
26) trans-1,2-Dichloroethene	2.853	96	7548	0.98	ug/L	96
27) 1,1-Dicethane	3.311	63	20622	1.19	ug/L	87
33) cis-1,2-Dichloroethene	4.054	96	1767414	190.59	ug/L	97
40) 1,1,1-Trichloroethane	4.859	97	19166	1.47	ug/L	94
53) Trichloroethene	6.499	130	5956	0.60	ug/L #	74

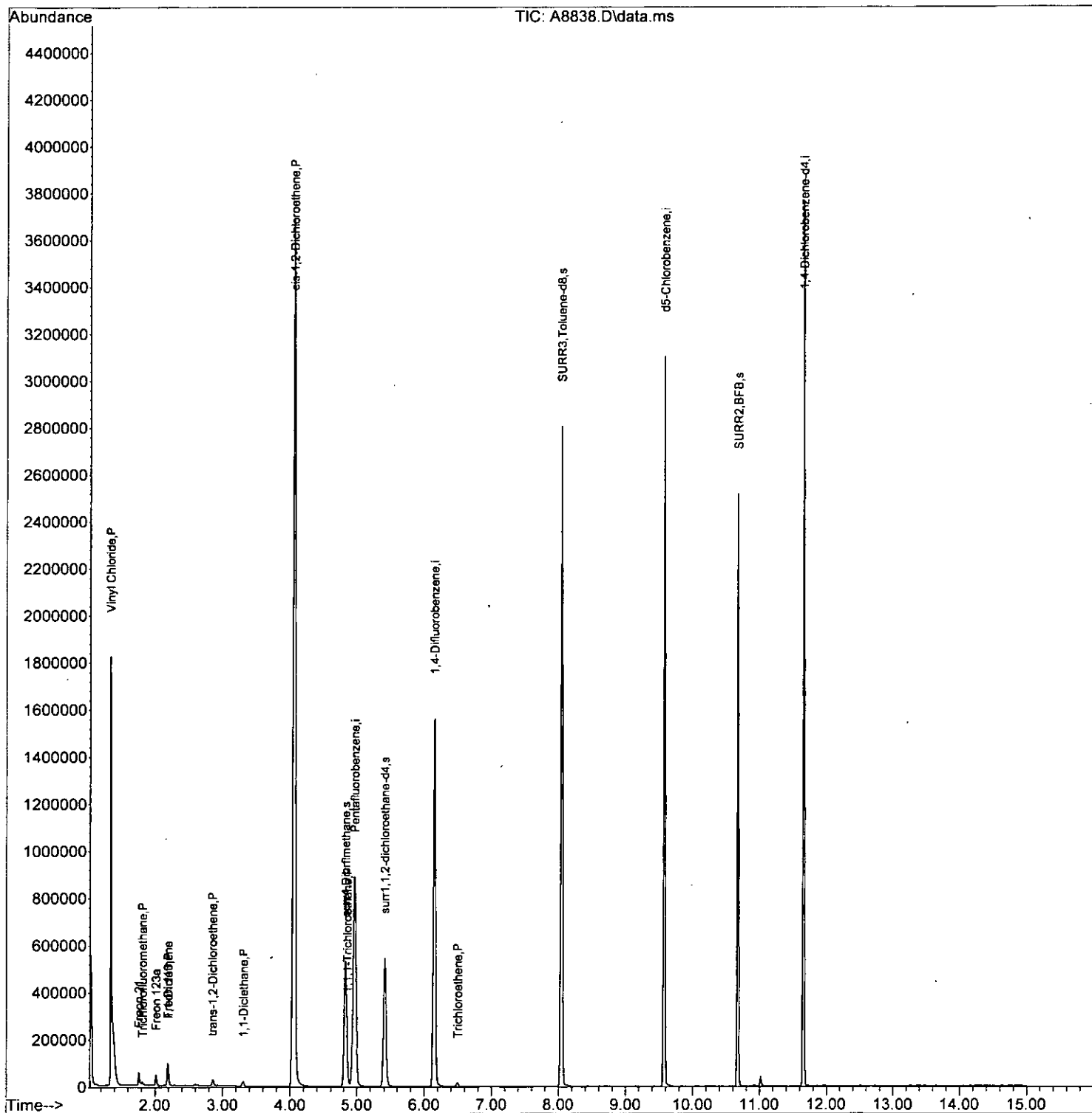
(#) = qualifier out of range (m) = manual integration (+) = signals summed

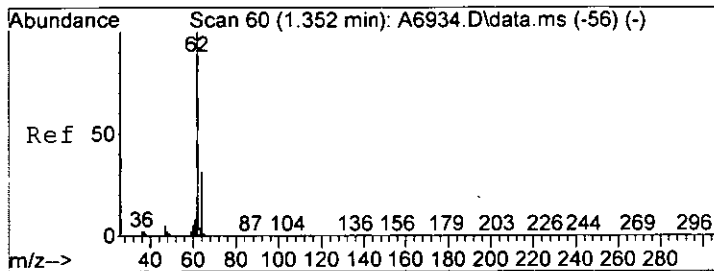
KR
5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8838.D
Acq On : 25 May 2015 1:17 am
Operator : F.Naegler
Sample : R1503862-004|10.0
Misc : CBI 13429 T4
ALS Vial : 34 Sample Multiplier: 1

Inst : MSVOA10

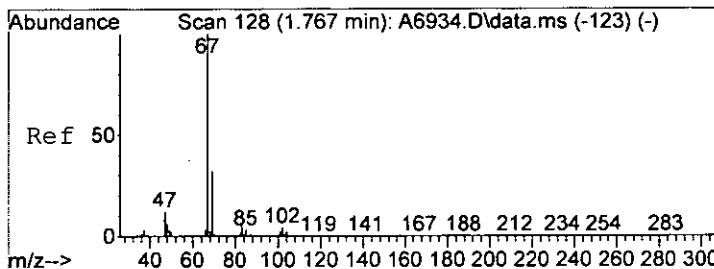
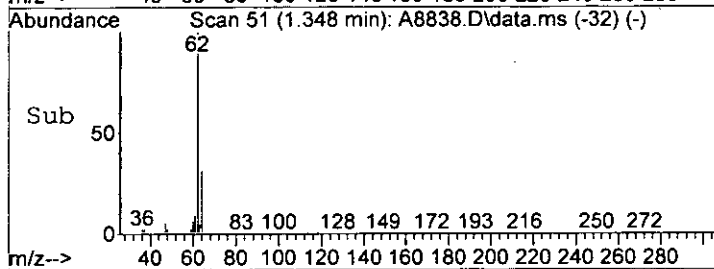
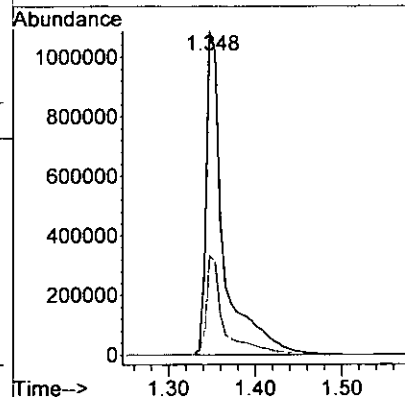
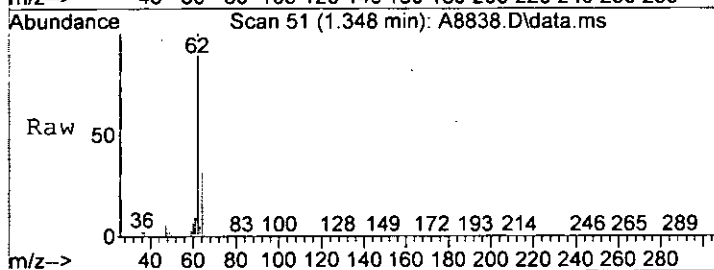
Quant Time: May 26 11:06:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





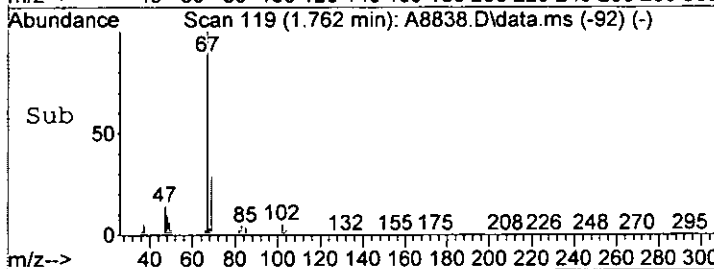
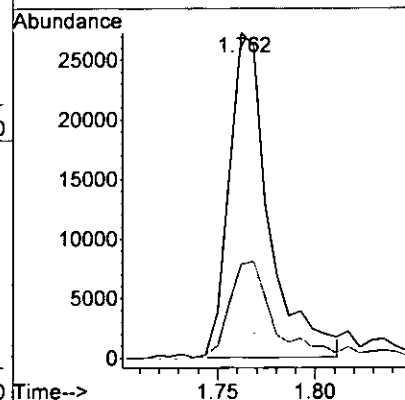
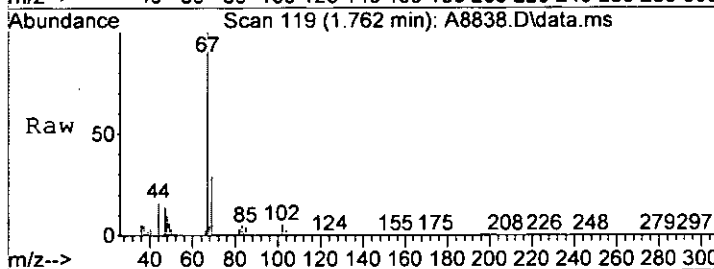
#4
 Vinyl Chloride
 Concen: 119.22 ug/L
 RT: 1.348 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

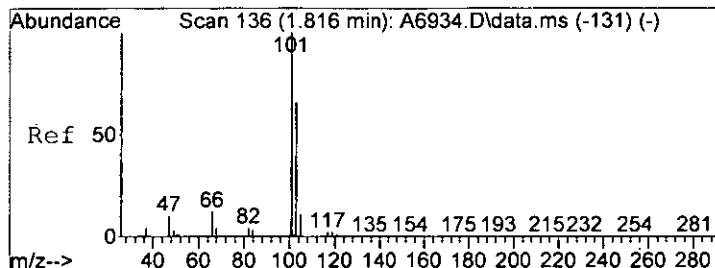
Tgt Ion: 62 Resp: 1540205
 Ion Ratio Lower Upper
 62 100
 64 30.7 11.7 51.7



#7
 Freon 21
 Concen: 2.51 ug/L
 RT: 1.762 min Scan# 119
 Delta R.T. -0.000 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

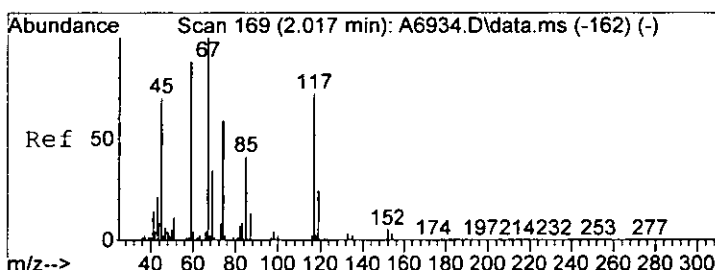
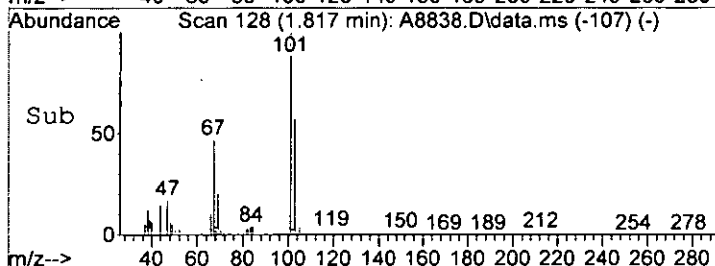
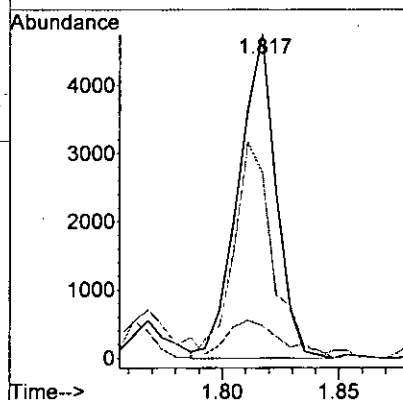
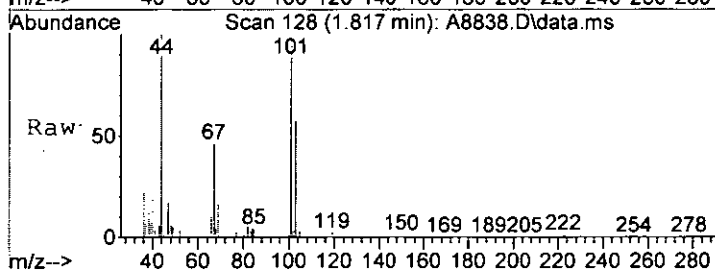
Tgt Ion: 67 Resp: 38872
 Ion Ratio Lower Upper
 67 100
 69 28.8 10.4 50.4





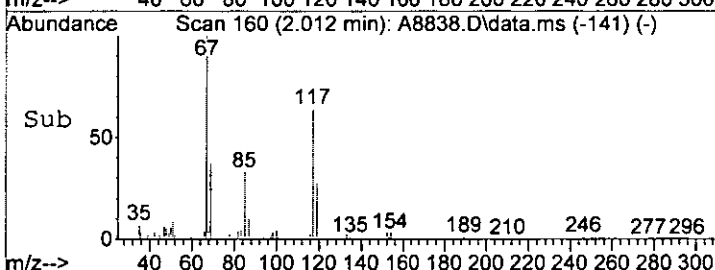
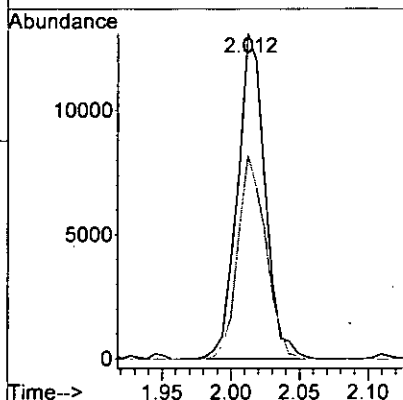
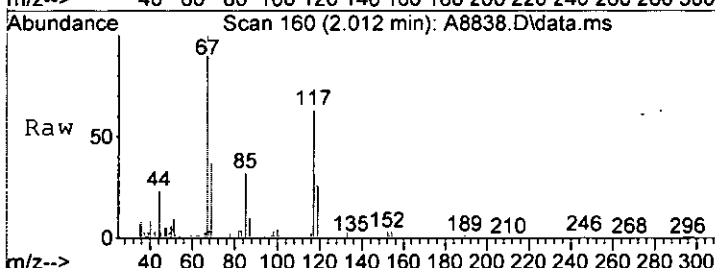
#8
 Trichlorofluoromethane
 Concen: 0.42 ug/L
 RT: 1.817 min Scan# 128
 Delta R.T. 0.006 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

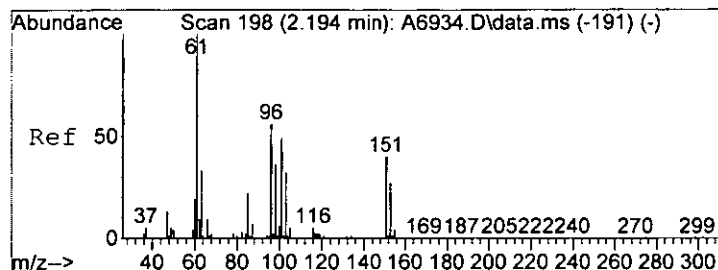
Tgt Ion: 101 Resp: 5291
 Ion Ratio Lower Upper
 101 100
 103 57.4 43.9 83.9
 66 10.2 0.0 33.3



#10
 Freon 123a
 Concen: 1.94 ug/L
 RT: 2.012 min Scan# 160
 Delta R.T. -0.000 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

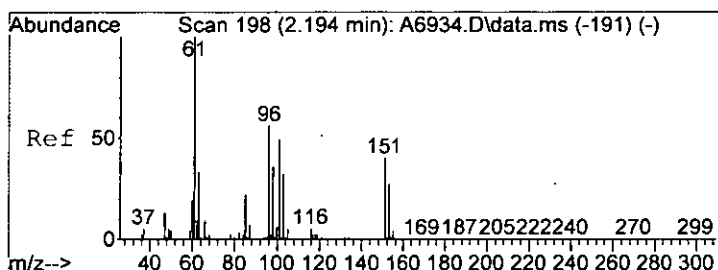
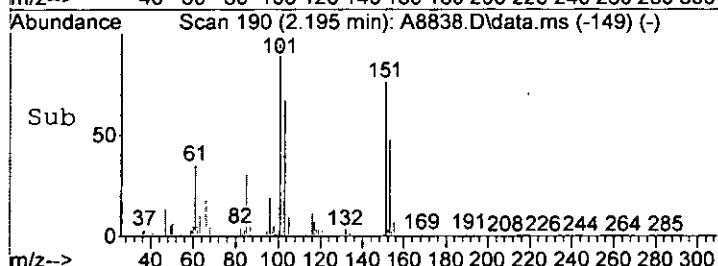
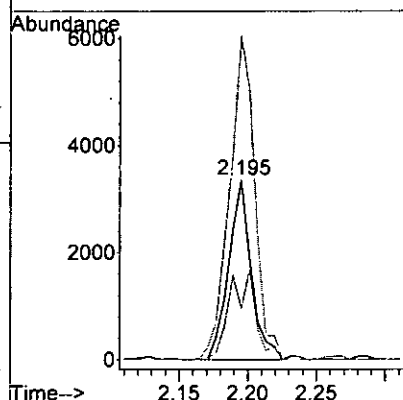
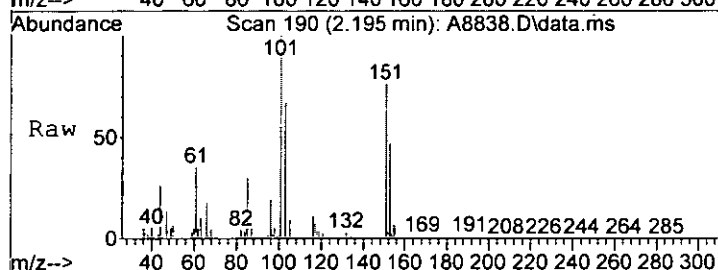
Tgt Ion: 67 Resp: 18320
 Ion Ratio Lower Upper
 67 100
 117 62.5 52.5 92.5





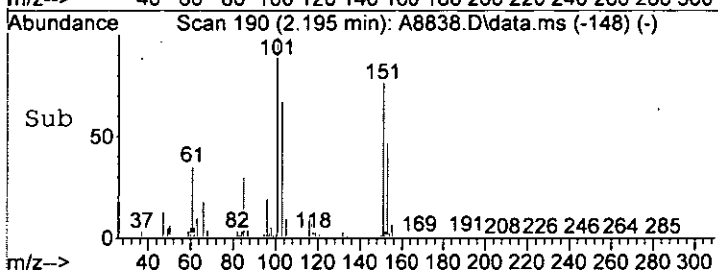
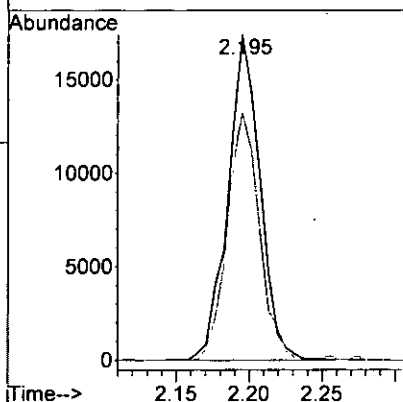
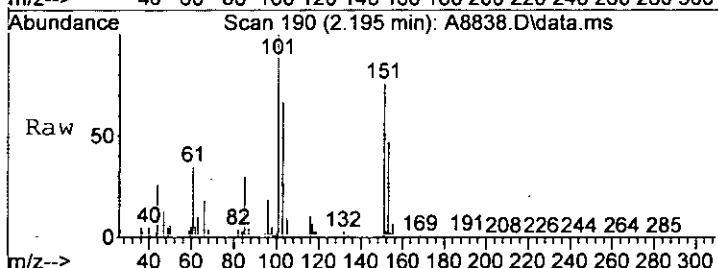
#13
1,1-Dicloroethene
Concen: 0.57 ug/L
RT: 2.195 min Scan# 190
Delta R.T. -0.000 min
Lab File: A8838.D
Acq: 25 May 2015 1:17 am

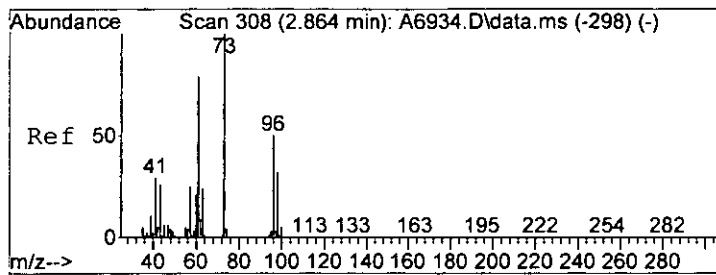
Tgt Ion: 96 Resp: 3887
Ion Ratio Lower Upper
96 100
98 28.4 43.2 83.2#
61 180.0 155.6 195.6



#14
Freon 113
Concen: 3.66 ug/L
RT: 2.195 min Scan# 190
Delta R.T. -0.000 min
Lab File: A8838.D
Acq: 25 May 2015 1:17 am

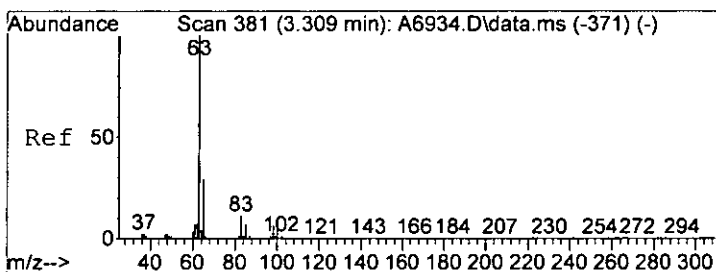
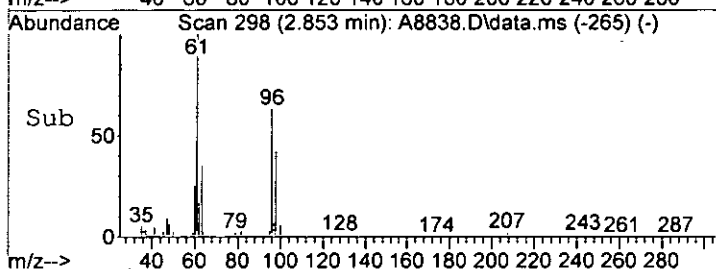
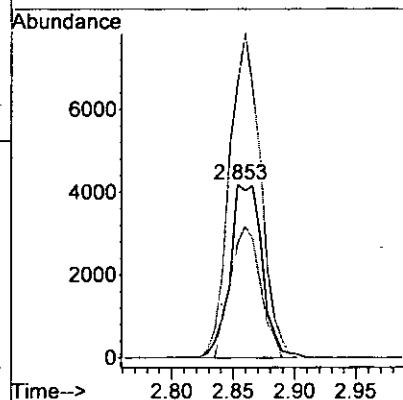
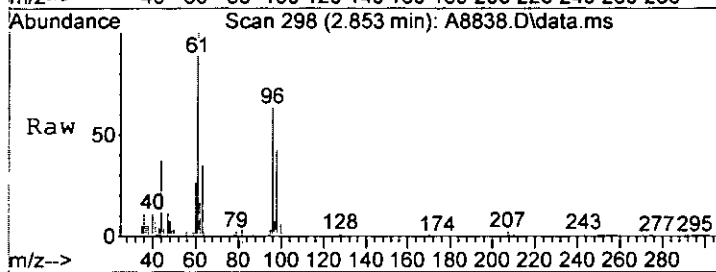
Tgt Ion: 101 Resp: 26319
Ion Ratio Lower Upper
101 100
151 76.0 56.3 96.3





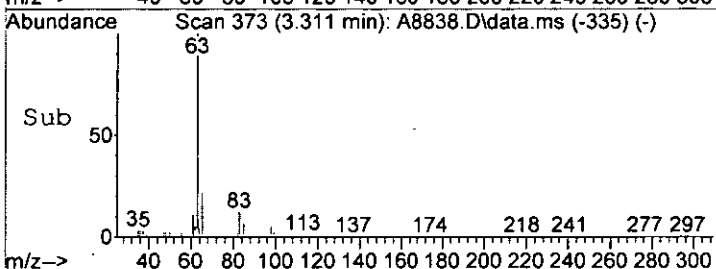
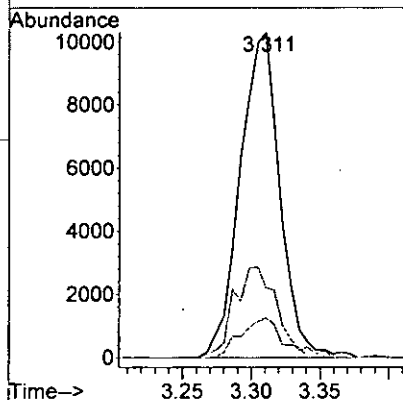
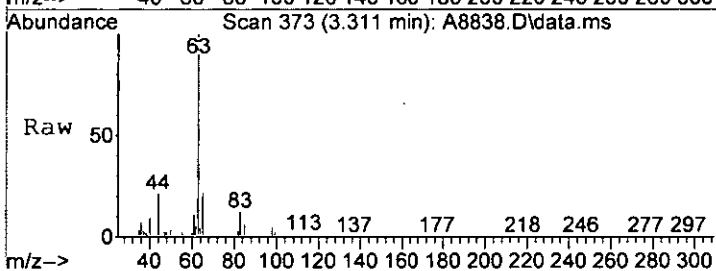
#26
trans-1,2-Dichloroethene
Concen: 0.98 ug/L
RT: 2.853 min Scan# 298
Delta R.T. -0.006 min
Lab File: A8838.D
Acq: 25 May 2015 1:17 am

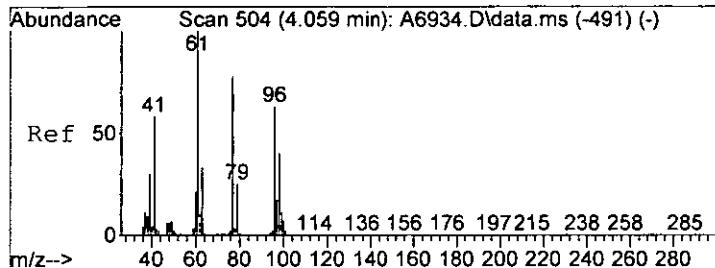
Tgt Ion: 96 Resp: 7548
Ion Ratio Lower Upper
96 100
98 65.9 44.7 84.7
61 157.7 130.9 170.9



#27
1,1-Dichloroethane
Concen: 1.19 ug/L
RT: 3.311 min Scan# 373
Delta R.T. 0.006 min
Lab File: A8838.D
Acq: 25 May 2015 1:17 am

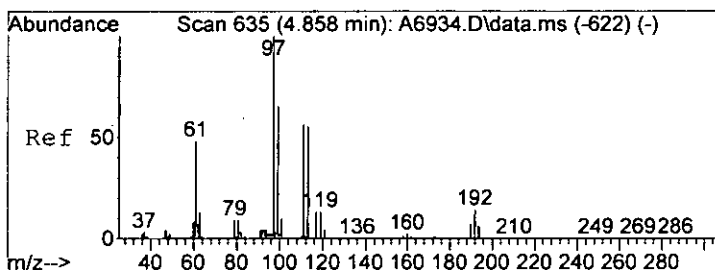
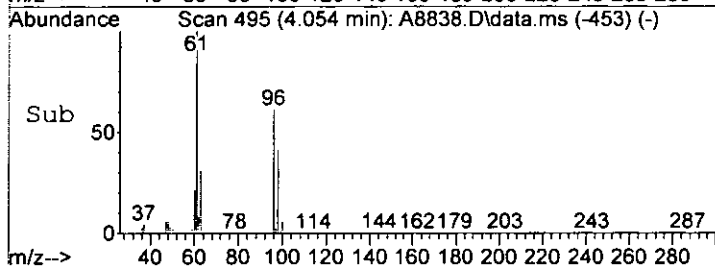
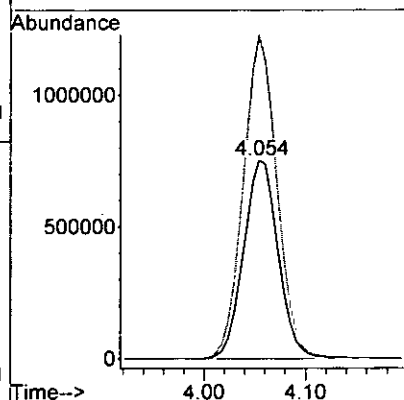
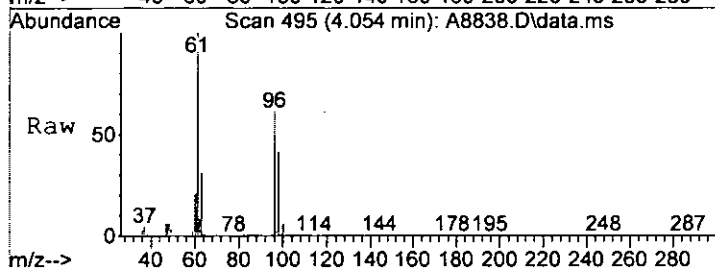
Tgt Ion: 63 Resp: 20622
Ion Ratio Lower Upper
63 100
65 21.5 11.0 51.0
83 12.2 0.0 33.3





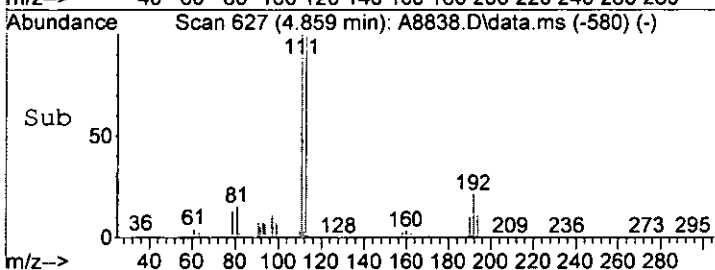
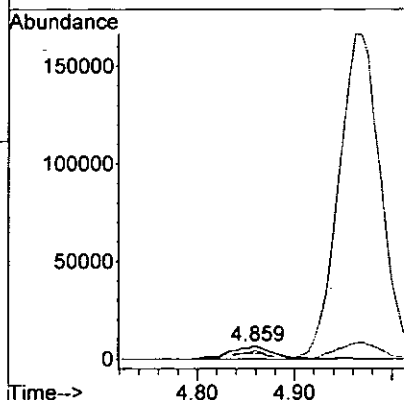
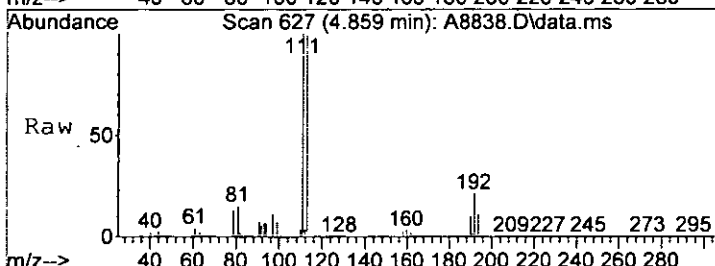
#33
 cis-1,2-Dichloroethene
 Concen: 190.59 ug/L
 RT: 4.054 min Scan# 495
 Delta R.T. -0.000 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

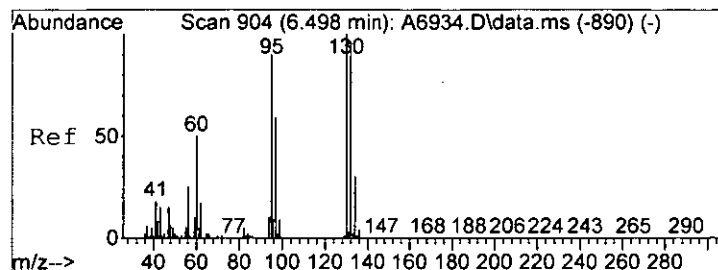
Tgt Ion: 96 Resp: 1767414
 Ion Ratio Lower Upper
 96 100
 61 163.2 138.8 178.8



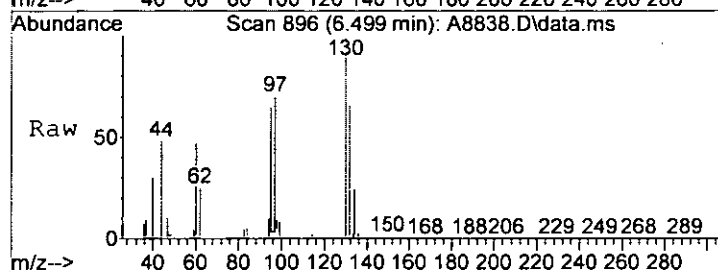
#40
 1,1,1-Trichloroethane
 Concen: 1.47 ug/L
 RT: 4.859 min Scan# 627
 Delta R.T. 0.006 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am

Tgt Ion: 97 Resp: 19166
 Ion Ratio Lower Upper
 97 100
 99 64.7 40.9 80.9
 61 39.6 25.2 65.2

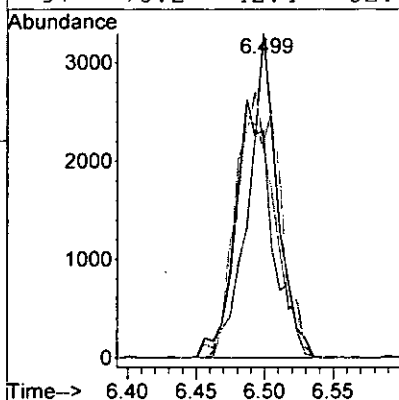
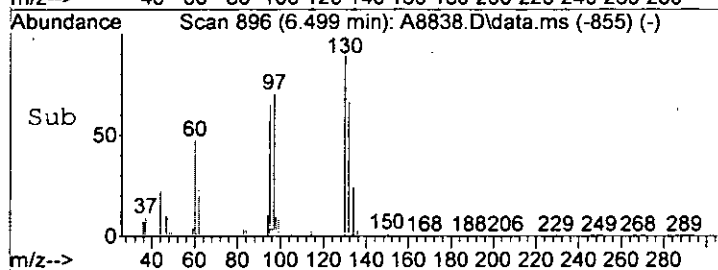




#53
 Trichloroethene
 Concen: 0.60 ug/L
 RT: 6.499 min Scan# 896
 Delta R.T. -0.000 min
 Lab File: A8838.D
 Acq: 25 May 2015 1:17 am



Tgt Ion: 130 Resp: 5956
 Ion Ratio Lower Upper
 130 100
 132 66.3 76.6 116.6#
 95 65.0 76.5 116.5#
 97 70.2 42.4 82.4



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-4-150518
Lab Code: R1503862-005

Service Request: R1503862
Date Collected: 5/18/15 1025
Date Received: 5/20/15
Date Analyzed: 5/25/15 15:32

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8864.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	57	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	0.53 J	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.1	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.1	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	27	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	0.85 J	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	0.41 J	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1025
Date Received: 5/20/15
Date Analyzed: 5/25/15 15:32

Sample Name: BAT-EW-4-150518
Lab Code: R1503862-005

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052515\A8864.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/25/15 15:32	
Toluene-d8	96	87-121	5/25/15 15:32	
Dibromofluoromethane	100	89-119	5/25/15 15:32	

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8864.D

Acq On : 25 May 2015 3:32 pm

Operator : K.Ruest

Sample : R1503862-005|1.0

Inst : MSVOA10

Misc : OB+I 13429 T4

ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 26 16:18:01 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	901520	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1408982	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1288156	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	728273	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	440968	50.15	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	= 100.30%		
46) surr1,1,2-dichloroetha...	5.414	65	449603	49.76	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	= 99.52%		
64) SURR3,Toluene-d8	8.041	98	1611814	48.08	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	= 96.16%		
69) SURR2,BFB	10.675	95	625724	45.93	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	= 91.86%		
Target Compounds						Qvalue
4) Vinyl Chloride	1.354	62	710436	56.91	ug/L	98
7) Freon 21	1.762	67	31159	2.08	ug/L	99
10) Freon 123a	2.018	67	10276	1.12	ug/L	95
14) Freon 113	2.195	101	10204	1.47	ug/L	86
15) Acetone	2.219	43	5366	Below	Cal	76
18) Carbon Disulfide	2.378	76	12565	0.53	ug/L	95
26) trans-1,2-Dichloroethene	2.853	96	8023	1.07	ug/L	98
27) 1,1-Dicethane	3.311	63	18162	1.09	ug/L	92
33) cis-1,2-Dichloroethene	4.054	96	245663	27.42	ug/L	99
40) 1,1,1-Trichloroethane	4.865	97	10796m	0.85	ug/L	
53) Trichloroethene	6.499	130	4033	0.41	ug/L #	80

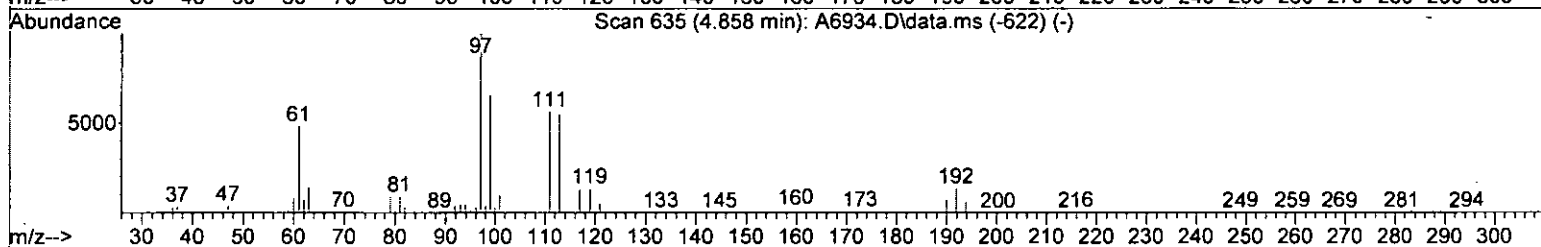
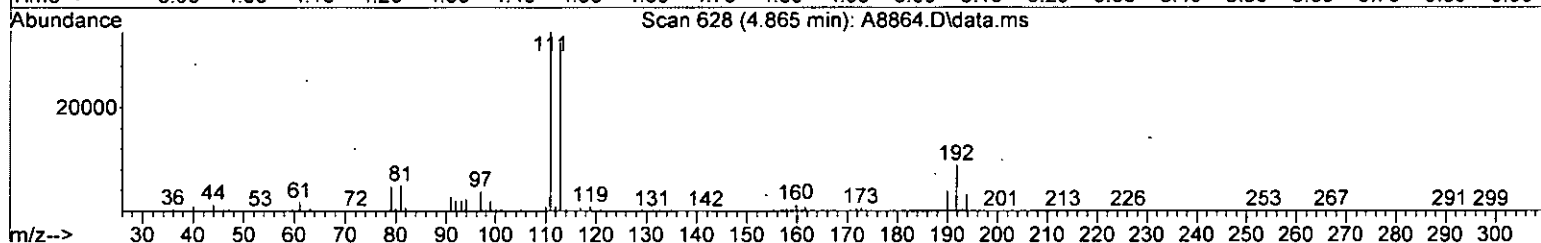
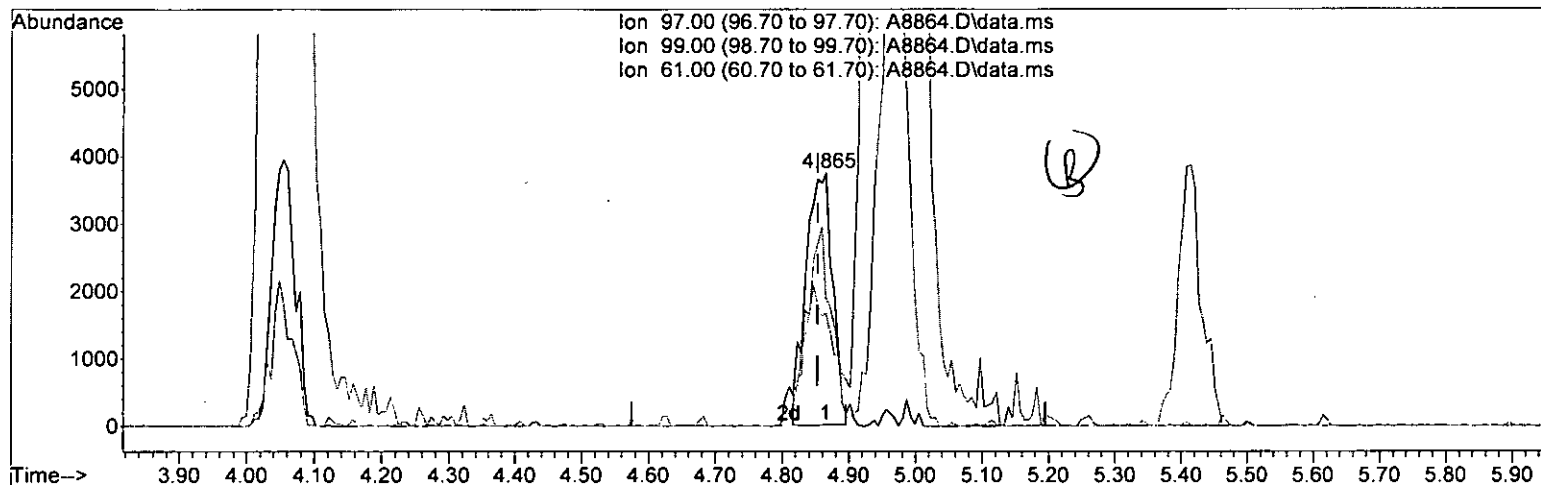
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR
5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8864.D
Acq On : 25 May 2015 3:32 pm
Operator : K.Ruest
Sample : R1503862-00511.0
Misc : OB+I 13429 T4
ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 15:47:20 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8864.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.865min (+0.012) 0.81 ug/L

response 10192

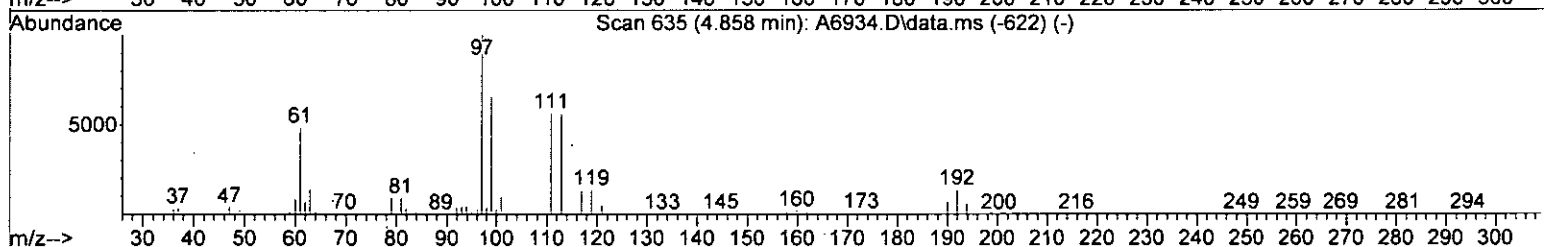
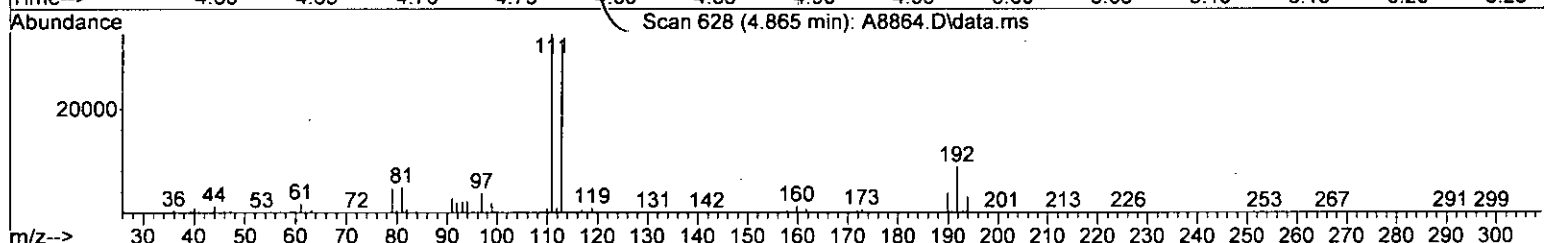
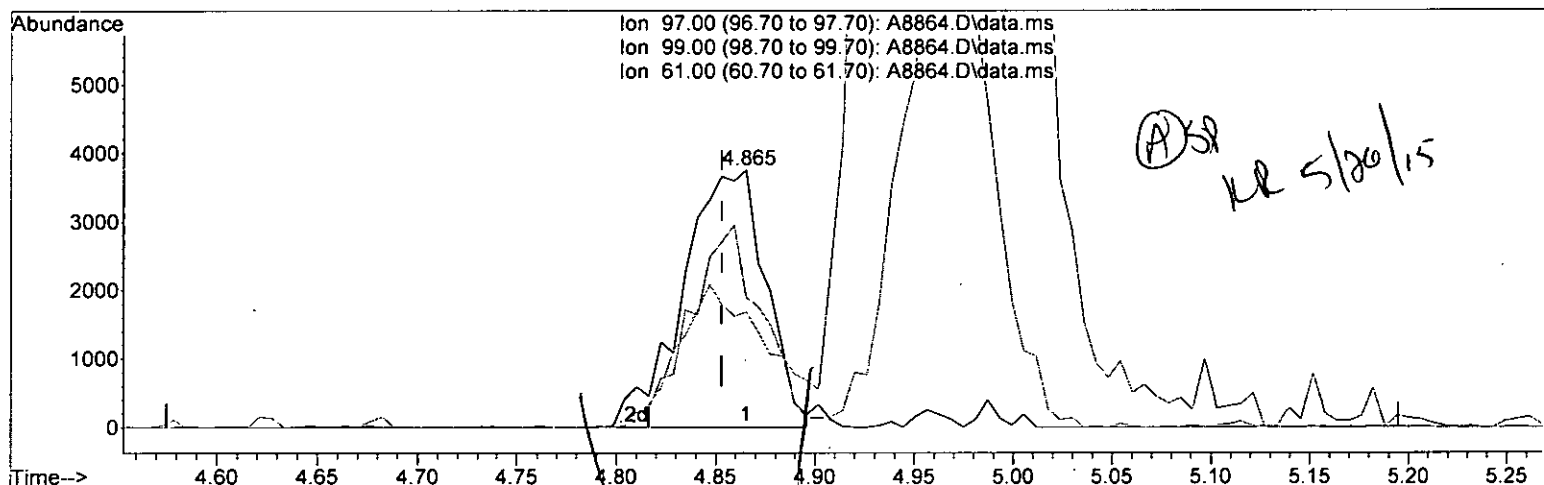
Ion	Exp%	Act%
97.00	100	100
99.00	60.90	50.64
61.00	45.20	44.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8864.D
 Acq On : 25 May 2015 3:32 pm
 Operator : K.Ruest
 Sample : R1503862-005|1.0
 Misc : OB+I 13429 T4
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 15:47:20 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8864.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.865min (+0.012) 0.85 ug/L m

response 10796

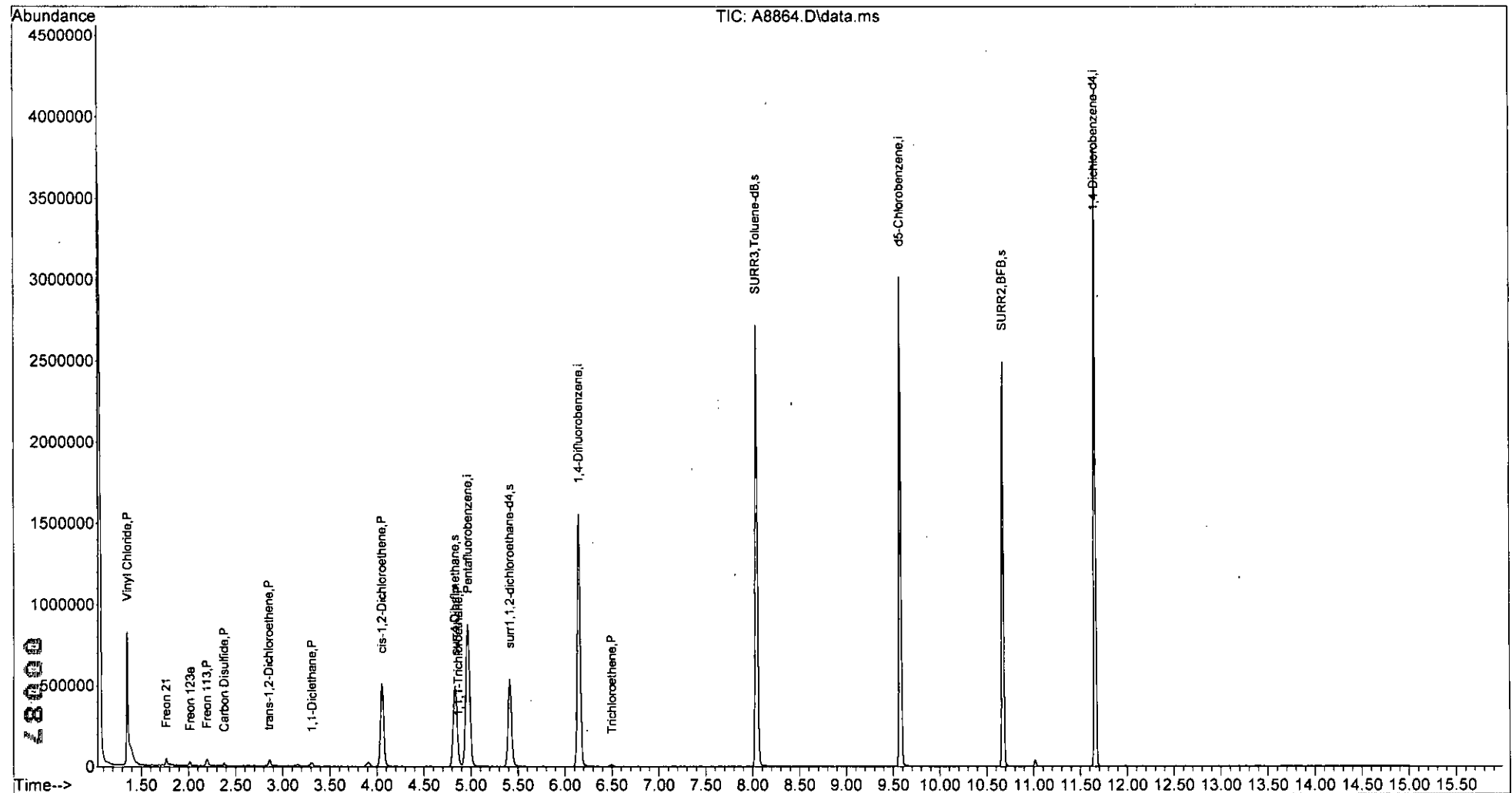
Ion	Exp%	Act%
97.00	100	100
99.00	60.90	50.64
61.00	45.20	44.69
0.00	0.00	0.00

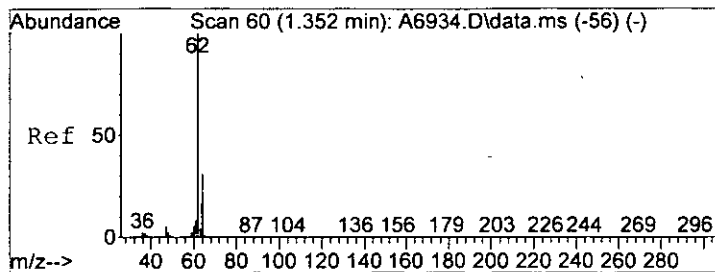
KE 5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8864.D
Acq On : 25 May 2015 3:32 pm
Operator : K.Ruest
Sample : R1503862-005\1.0
Misc : OB+I 13429 T4
ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA10

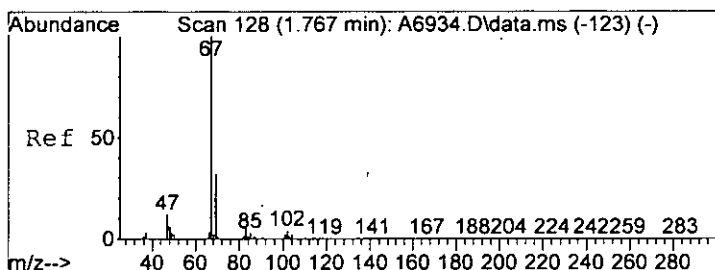
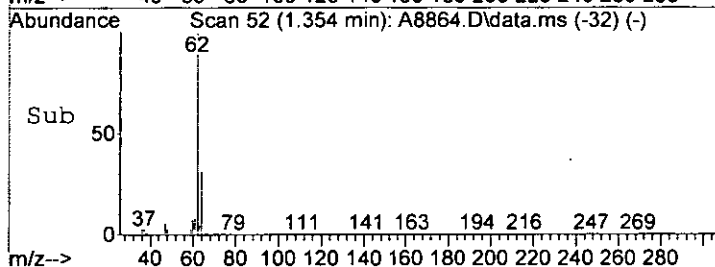
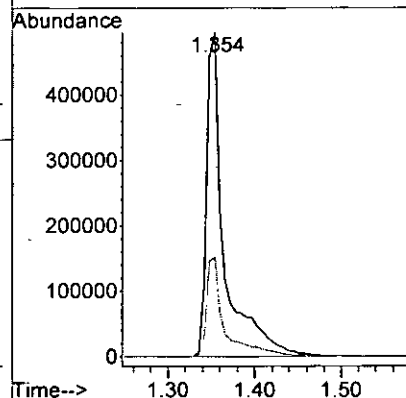
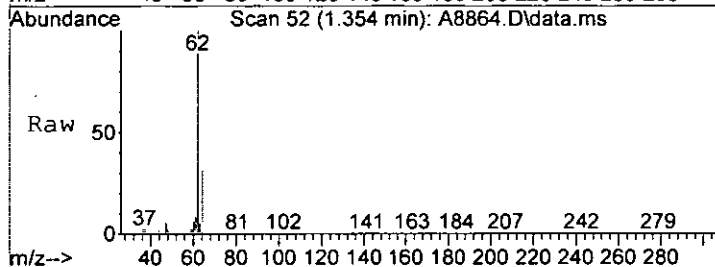
Quant Time: May 26 16:18:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





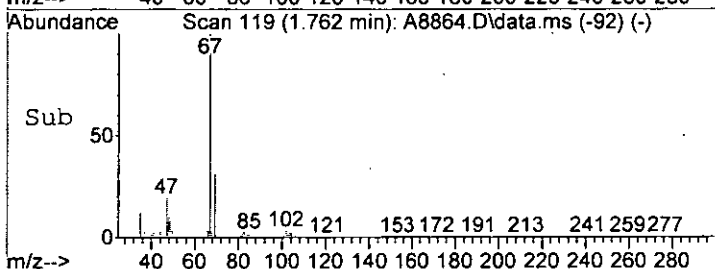
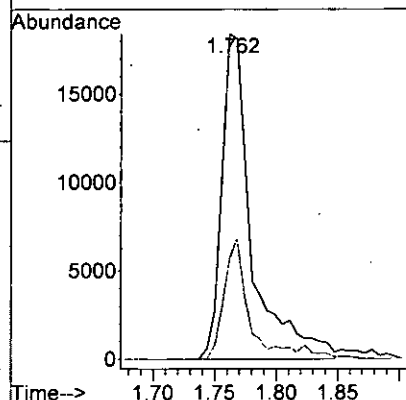
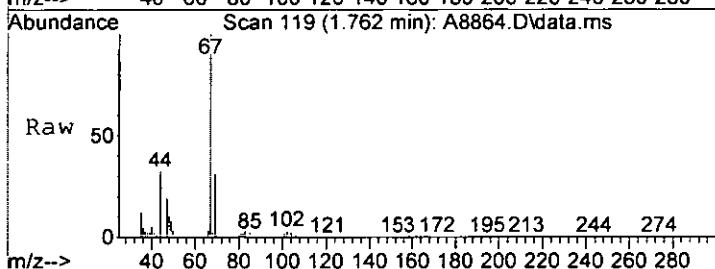
#4
 Vinyl Chloride
 Concen: 56.91 ug/L
 RT: 1.354 min Scan# 52
 Delta R.T. 0.006 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

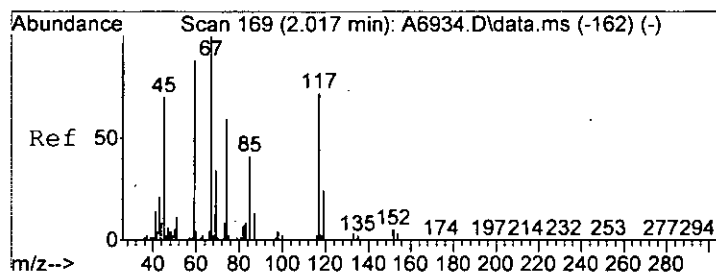
Tgt Ion: 62 Resp: 710436
 Ion Ratio Lower Upper
 62 100
 64 30.6 11.7 51.7



#7
 Freon 21
 Concen: 2.08 ug/L
 RT: 1.762 min Scan# 119
 Delta R.T. -0.000 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

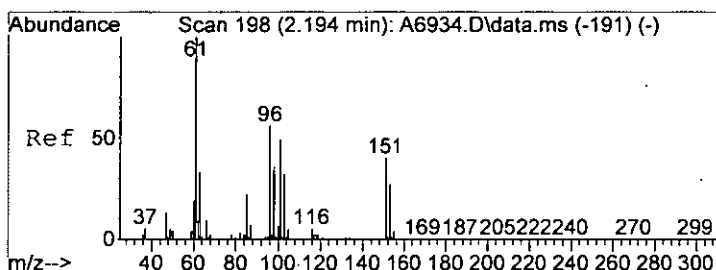
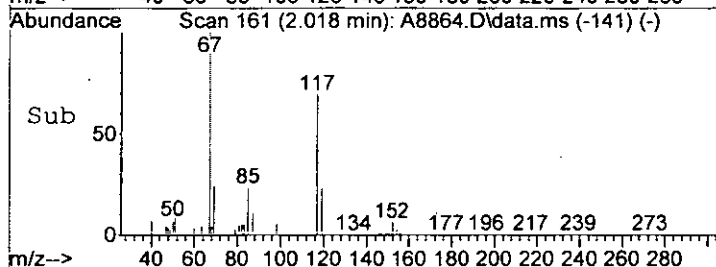
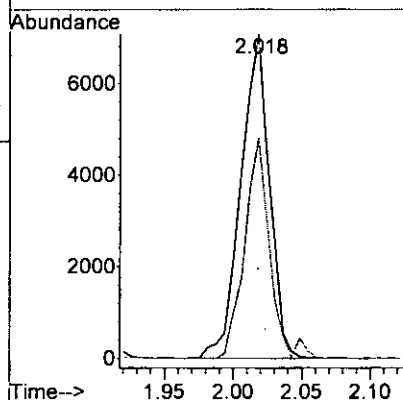
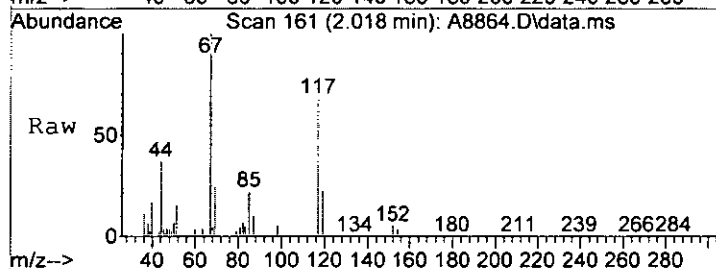
Tgt Ion: 67 Resp: 31159
 Ion Ratio Lower Upper
 67 100
 69 30.9 10.4 50.4





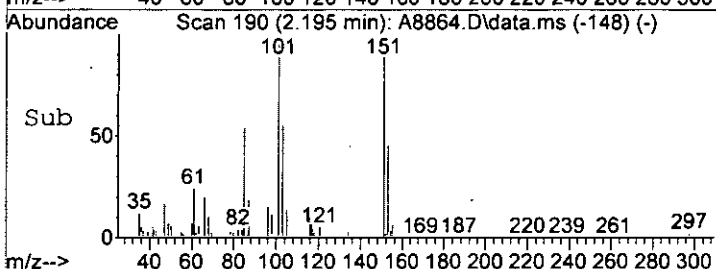
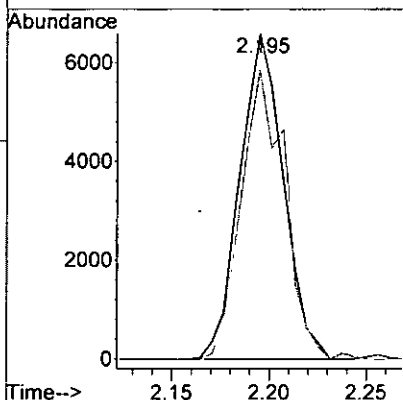
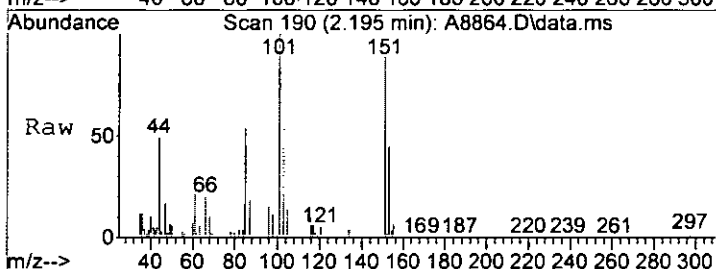
#10
 Freon 123a
 Concen: 1.12 ug/L
 RT: 2.018 min Scan# 161
 Delta R.T. 0.006 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

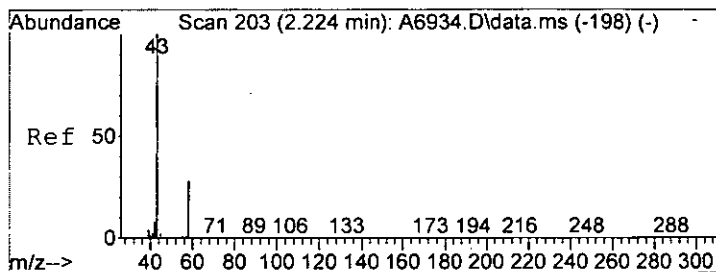
Tgt Ion: 67 Resp: 10276
 Ion Ratio Lower Upper
 67 100
 117 67.9 52.5 92.5



#14
 Freon 113
 Concen: 1.47 ug/L
 RT: 2.195 min Scan# 190
 Delta R.T. -0.000 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

Tgt Ion: 101 Resp: 10204
 Ion Ratio Lower Upper
 101 100
 151 88.6 56.3 96.3

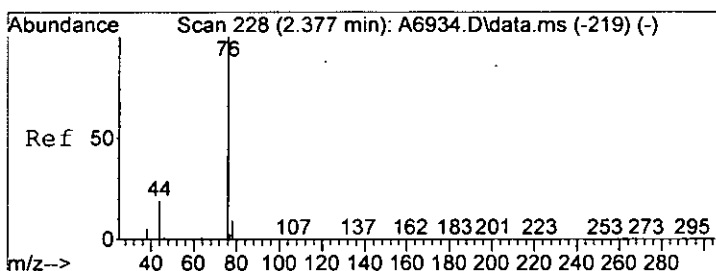
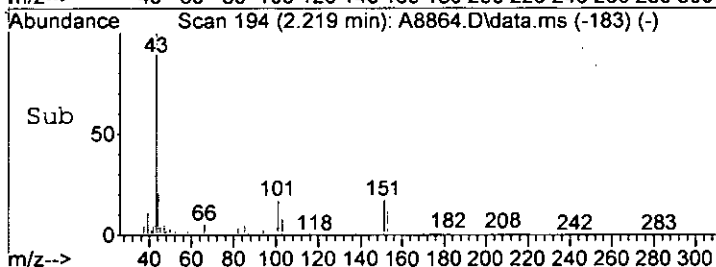
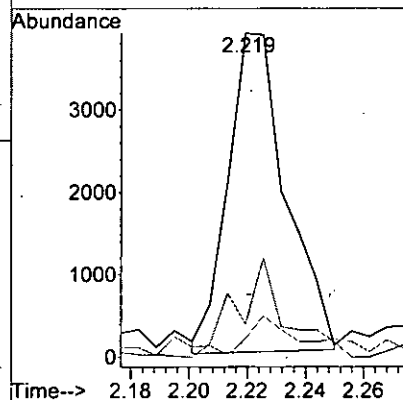
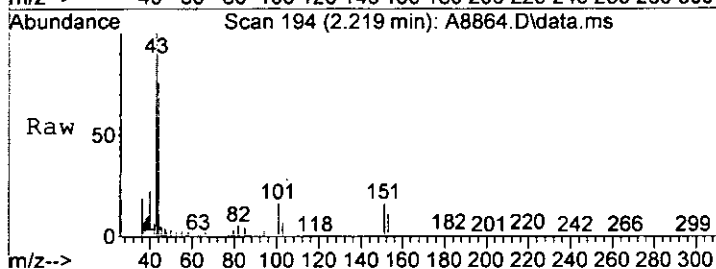




#15
Acetone
Concen: Below Cal
RT: 2.219 min Scan# 194
Delta R.T. -0.006 min
Lab File: A8864.D
Acq: 25 May 2015 3:32 pm

Tgt Ion: 43 Resp: 5366

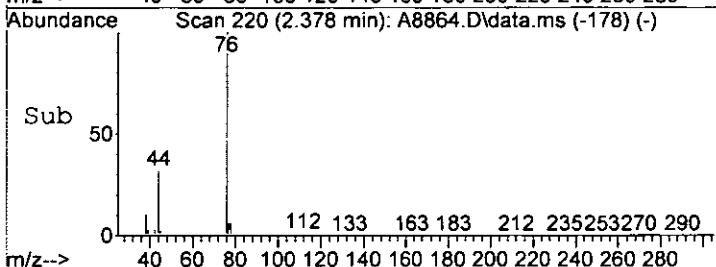
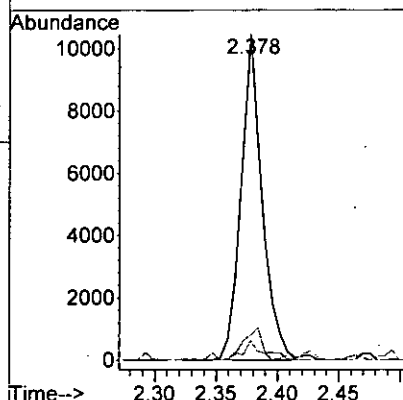
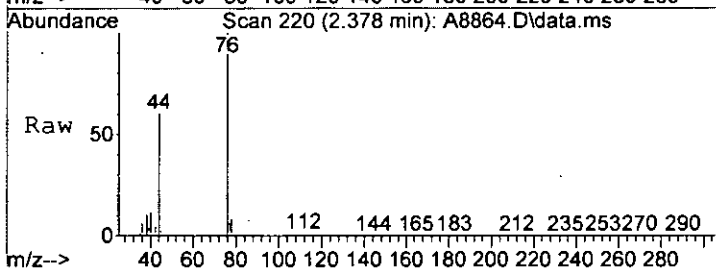
Ion	Ratio	Lower	Upper
43	100		
58	10.2	4.8	44.8
42	5.7	0.0	28.0

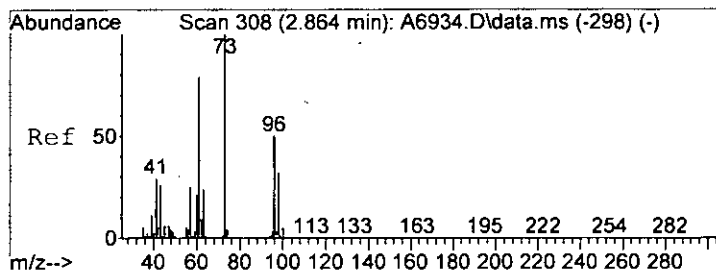


#18
Carbon Disulfide
Concen: 0.53 ug/L
RT: 2.378 min Scan# 220
Delta R.T. -0.000 min
Lab File: A8864.D
Acq: 25 May 2015 3:32 pm

Tgt Ion: 76 Resp: 12565

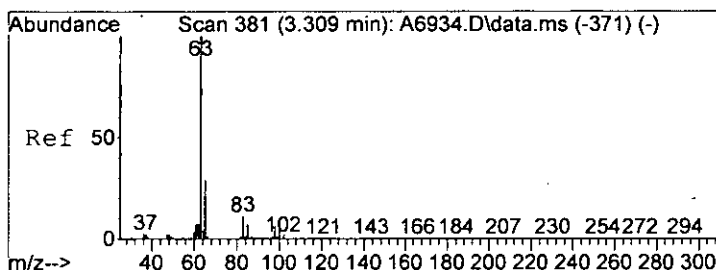
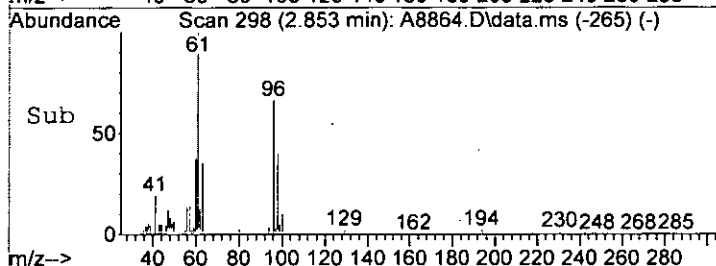
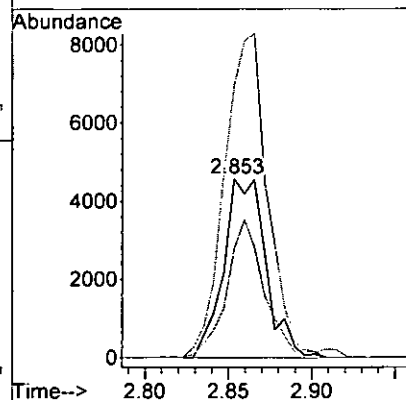
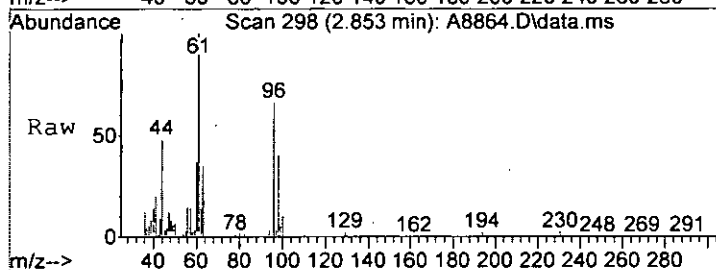
Ion	Ratio	Lower	Upper
76	100		
78	7.7	0.0	29.0
77	5.9	0.0	22.5





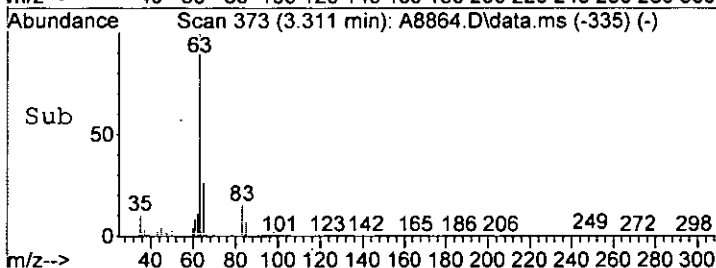
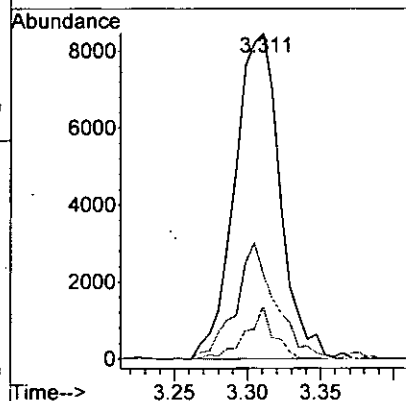
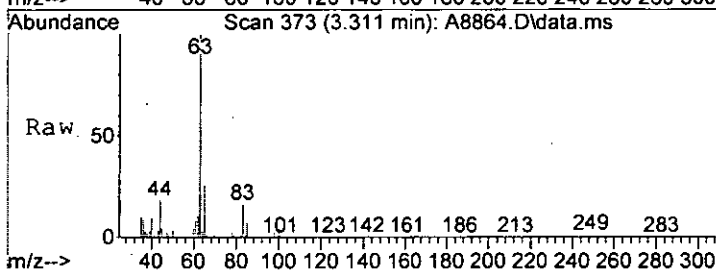
#26
trans-1,2-Dichloroethene
Concen: 1.07 ug/L
RT: 2.853 min Scan# 298
Delta R.T. -0.006 min
Lab File: A8864.D
Acq: 25 May 2015 3:32 pm

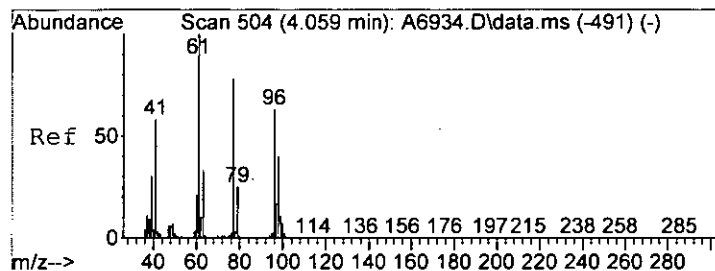
Tgt Ion: 96 Resp: 8023
Ion Ratio Lower Upper
96 100
98 60.5 44.7 84.7
61 152.4 130.9 170.9



#27
1,1-Dichloroethane
Concen: 1.09 ug/L
RT: 3.311 min Scan# 373
Delta R.T. 0.006 min
Lab File: A8864.D
Acq: 25 May 2015 3:32 pm

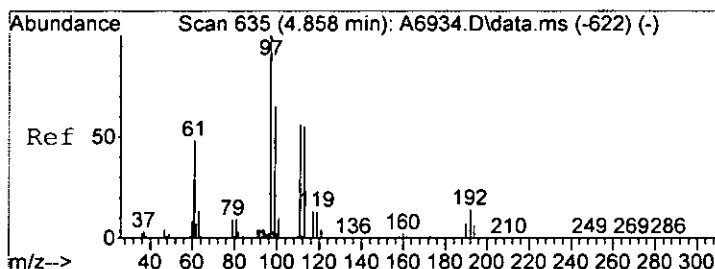
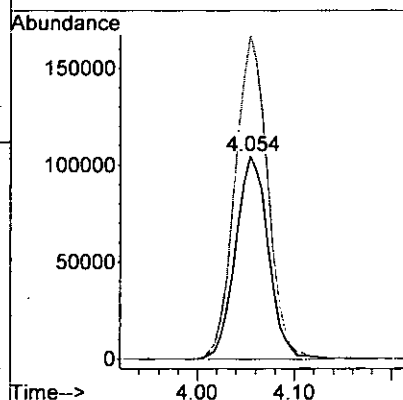
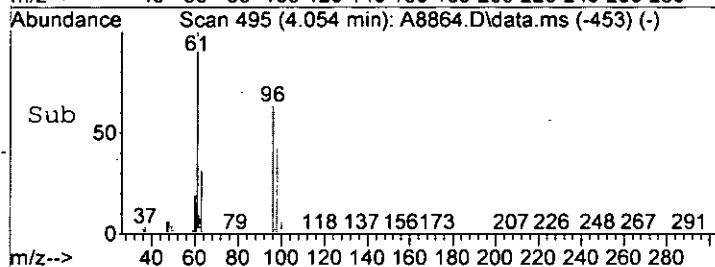
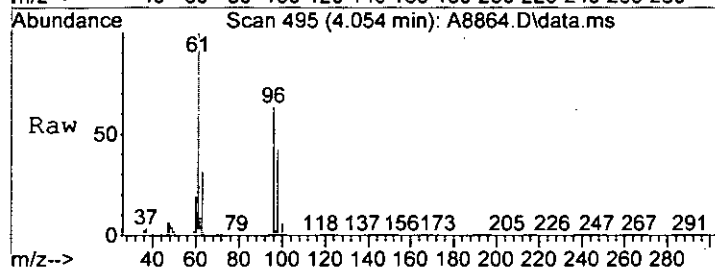
Tgt Ion: 63 Resp: 18162
Ion Ratio Lower Upper
63 100
65 26.1 11.0 51.0
83 16.0 0.0 33.3





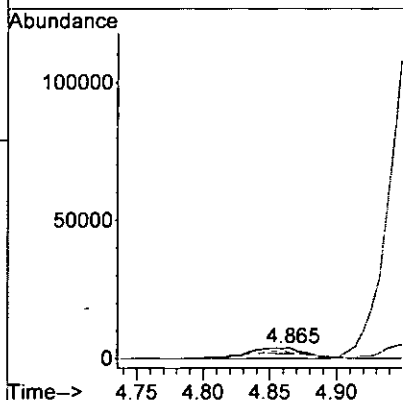
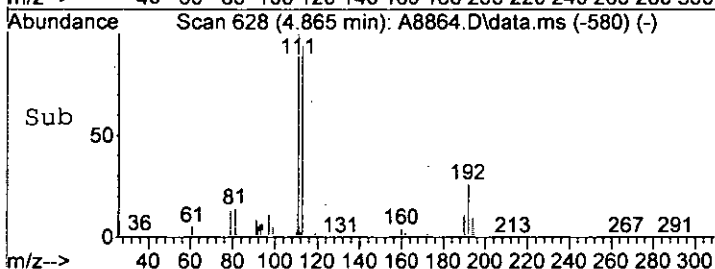
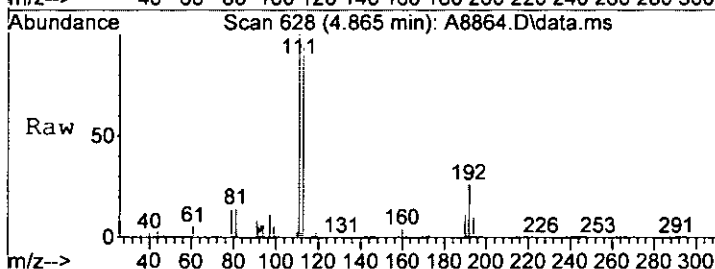
#33
 cis-1,2-Dichloroethene
 Concen: 27.42 ug/L
 RT: 4.054 min Scan# 495
 Delta R.T. -0.000 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

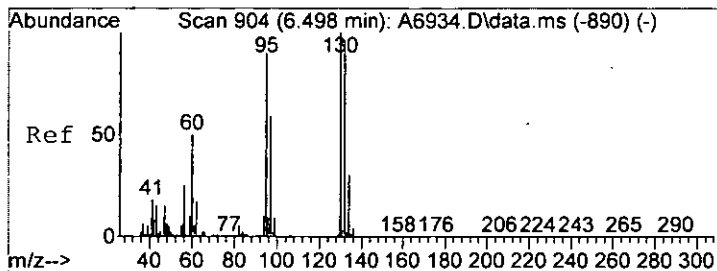
Tgt Ion: 96 Resp: 245663
 Ion Ratio Lower Upper
 96 100
 61 159.5 138.8 178.8



#40
 1,1,1-Trichloroethane
 Concen: 0.85 ug/L m
 RT: 4.865 min Scan# 628
 Delta R.T. 0.012 min
 Lab File: A8864.D
 Acq: 25 May 2015 3:32 pm

Tgt Ion: 97 Resp: 10796
 Ion Ratio Lower Upper
 97 100
 99 50.6 40.9 80.9
 61 44.7 25.2 65.2





#53

Trichloroethene

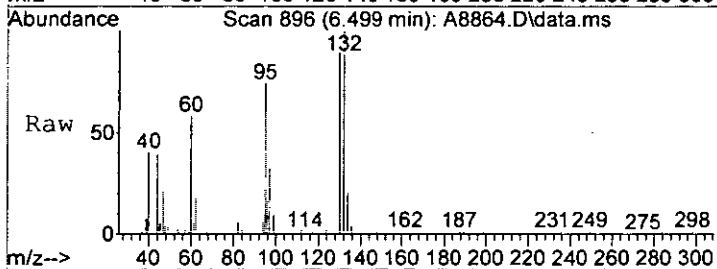
Concen: 0.41 ug/L

RT: 6.499 min Scan# 896

Delta R.T. -0.000 min

Lab File: A8864.D

Acq: 25 May 2015 3:32 pm



Tgt Ion: 130 Resp: 4033

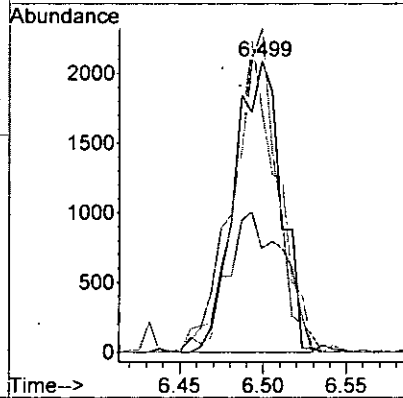
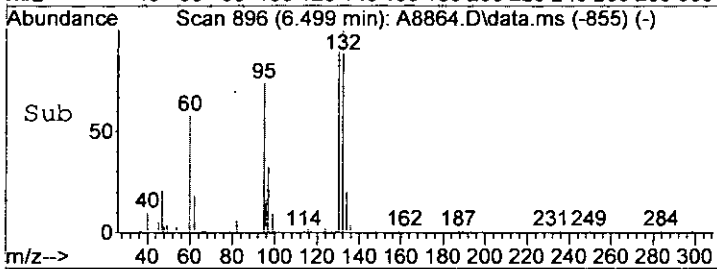
Ion Ratio Lower Upper

130 100

132 111.3 76.6 116.6

95 82.5 76.5 116.5

97 35.6 42.4 82.4#



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1045
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:01

Sample Name: BAT-EW-5-150518
Lab Code: R1503862-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052515\A8865.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	1000	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	10	10	3.4	
75-34-3	1,1-Dichloroethane	10	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1600	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	6.5 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	11	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	5.6 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1045
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:01

Sample Name: BAT-EW-5-150518
Lab Code: R1503862-006

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8865.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85-122	5/25/15 16:01	
Toluene-d8	96	87-121	5/25/15 16:01	
Dibromofluoromethane	100	89-119	5/25/15 16:01	

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8865.D
 Acq On : 25 May 2015 4:01 pm
 Operator : K.Ruest
 Sample : R1503862-006110 Inst : MSVOA10
 Misc : OB+I 13429 T4
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 26 16:21:07 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	917711	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1425412	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1286115	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	723069	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	445092	50.04	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.08%
46) surr1,1,2-dichloroetha...	5.408	65	456778	49.97	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	99.94%
64) SURR3,Toluene-d8	8.042	98	1635397	48.22	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	96.44%
69) SURR2,BFB	10.675	95	613968	44.55	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	89.10%
Target Compounds						
4) Vinyl Chloride	1.348	62	1294832	101.90	ug/L	96
7) Freon 21	1.762	67	38641m	2.53	ug/L	
8) Trichlorofluoromethane	1.811	101	3780	0.31	ug/L	91
10) Freon 123a	2.018	67	15227	1.64	ug/L	80
13) 1,1-Diclethene	2.195	96	2476	0.37	ug/L #	88
14) Freon 113	2.195	101	19940	2.82	ug/L	85
15) Acetone	2.220	43	2579	Below Cal		96
26) trans-1,2-Dichloroethene	2.860	96	7745	1.02	ug/L #	71
27) 1,1-Diclethane	3.305	63	17156	1.01	ug/L	95
33) cis-1,2-Dichloroethene	4.055	96	1434813	157.31	ug/L	100
39) Chloroform	4.567	83	9755	0.65	ug/L	83
40) 1,1,1-Trichloroethane	4.865	97	14162	1.10	ug/L	82
53) Trichloroethene	6.499	130	5486	0.56	ug/L #	73

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

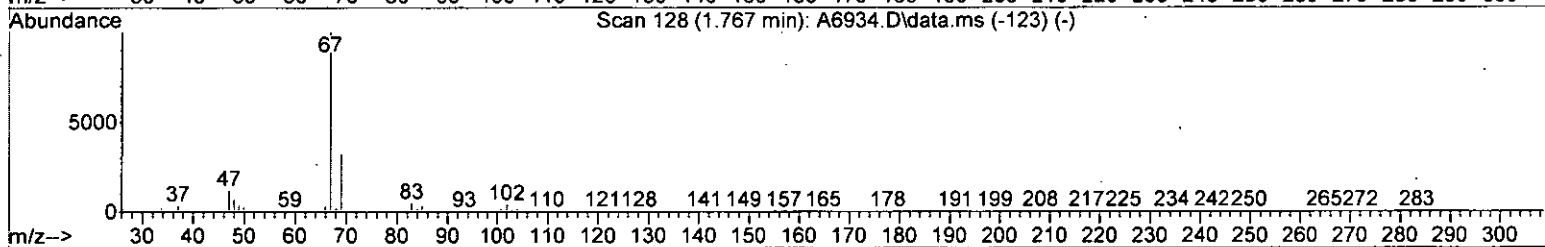
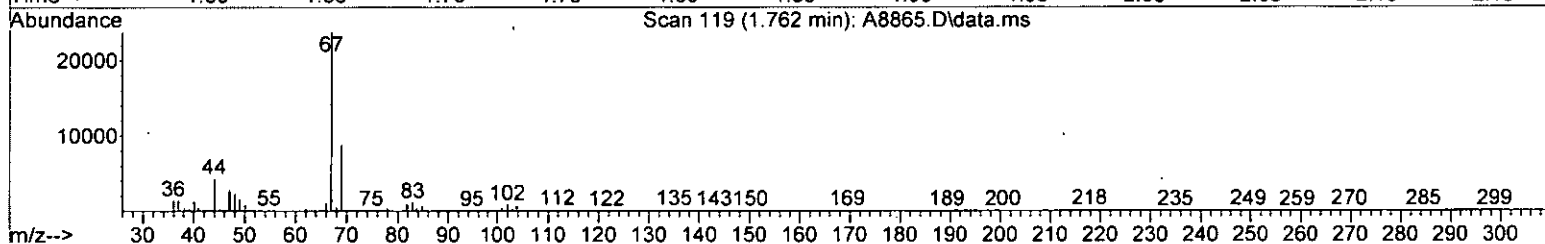
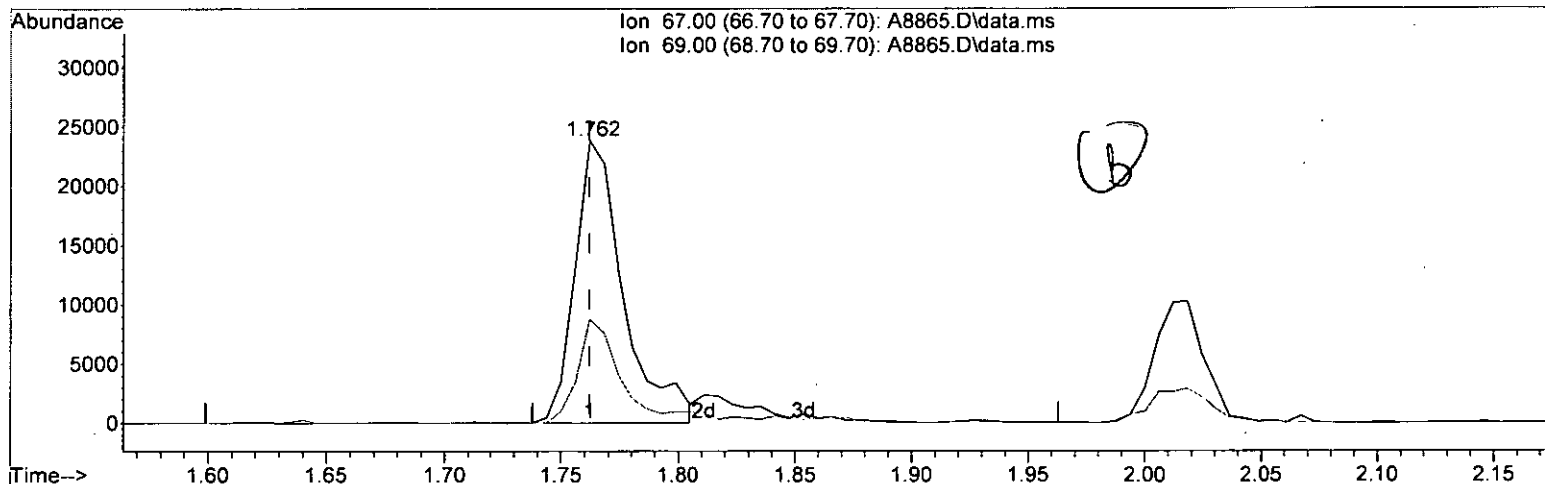
KR
5/26/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8865.D
 Acq On : 25 May 2015 4:01 pm
 Operator : K.Ruest
 Sample : R1503862-006110
 Misc : OB+I 13429 T4
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 16:16:55 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8865.D\data.ms

(7) Freon 21

1.762min (+0.000) 2.24 ug/L

response 34092

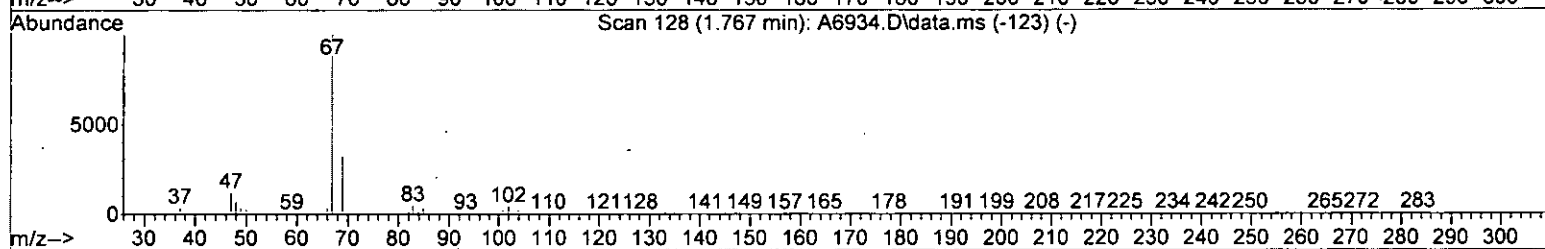
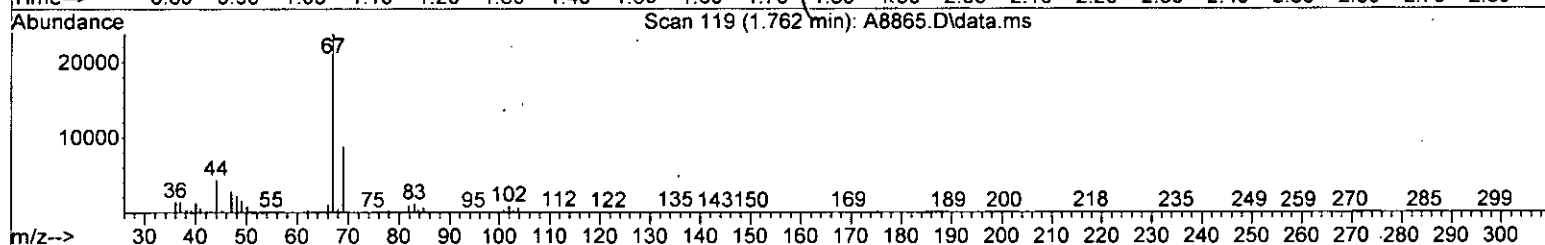
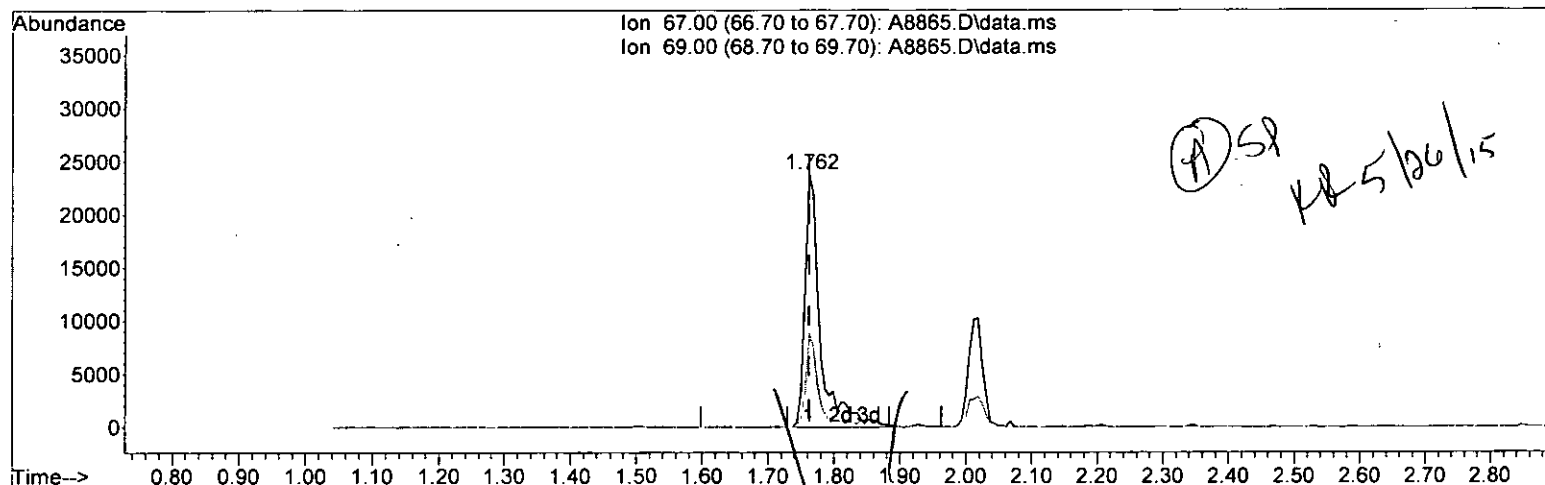
Ion	Exp%	Act%
67.00	100	100
69.00	30.40	36.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8865.D
 Acq On : 25 May 2015 4:01 pm
 Operator : K.Ruest
 Sample : R1503862-006110
 Misc : OB+I 13429 T4
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 16:16:55 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8865.D\data.ms

(7) Freon 21

1.762min (+0.000) 2.53 ug/L m

response 38641

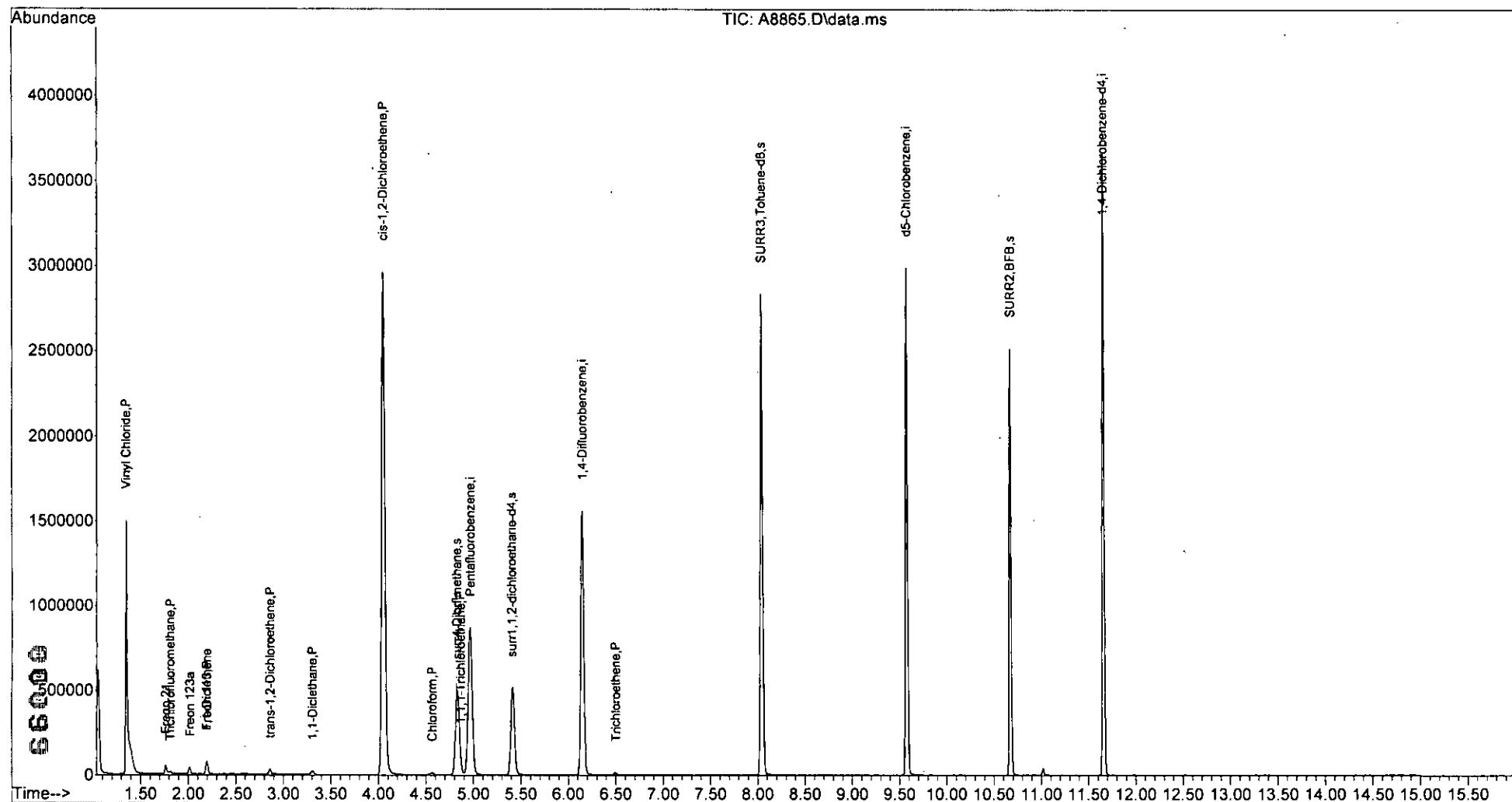
Ion	Exp%	Act%
67.00	100	100
69.00	30.40	36.81
0.00	0.00	0.00
0.00	0.00	0.00

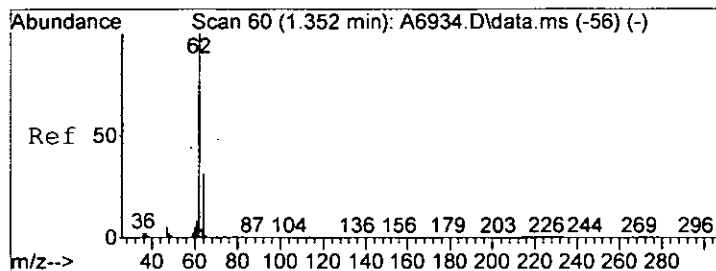
Handwritten signature

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8865.D
Acq On : 25 May 2015 4:01 pm
Operator : K.Ruest
Sample : R1503862-006|10
Misc : OB+I 13429 T4
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA10

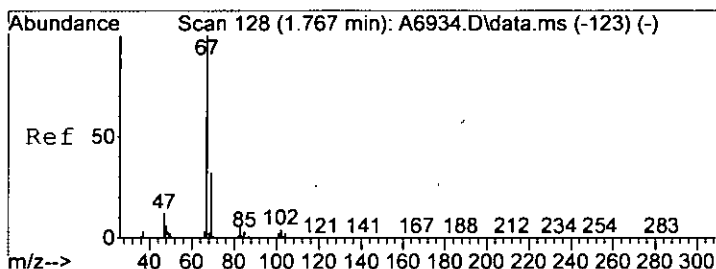
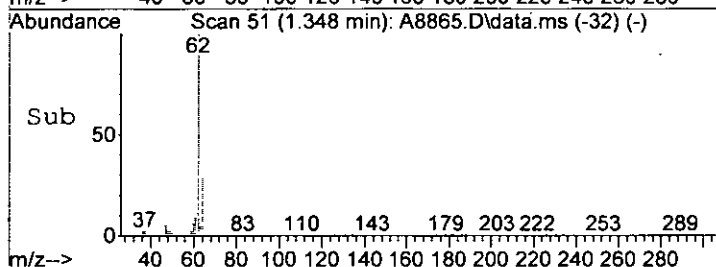
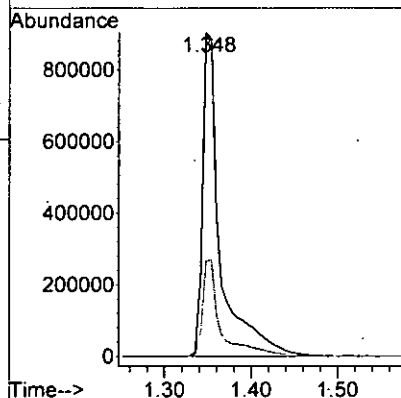
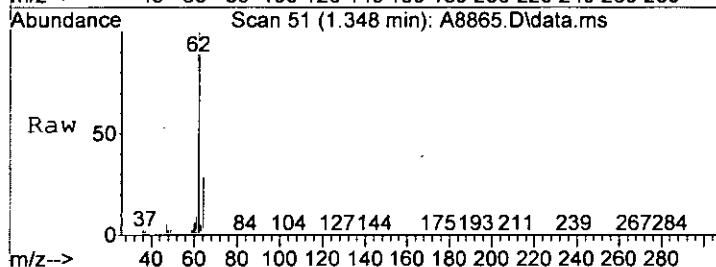
Quant Time: May 26 16:21:07 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





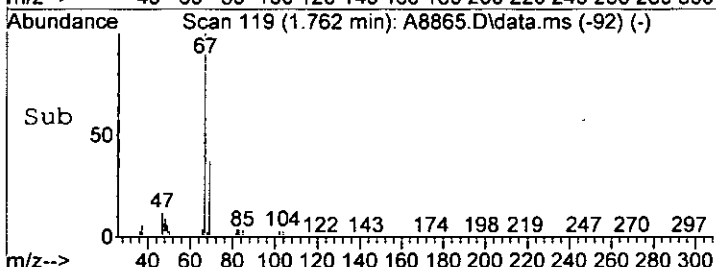
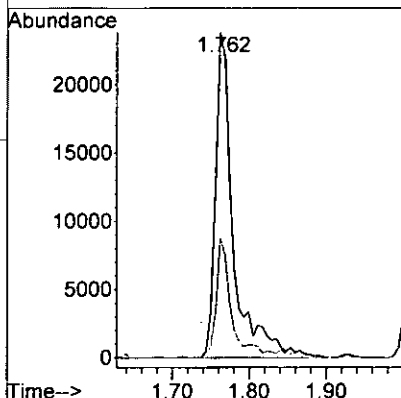
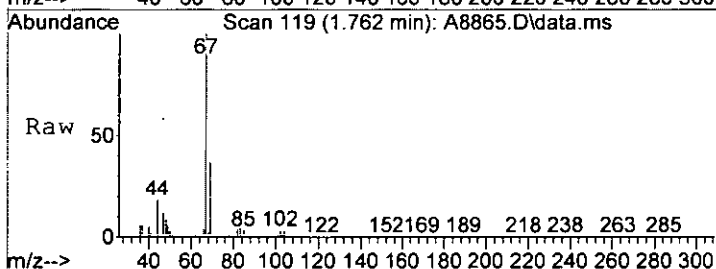
#4
 Vinyl Chloride
 Concen: 101.90 ug/L
 RT: 1.348 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: A8865.D
 Acq: 25 May 2015 4:01 pm

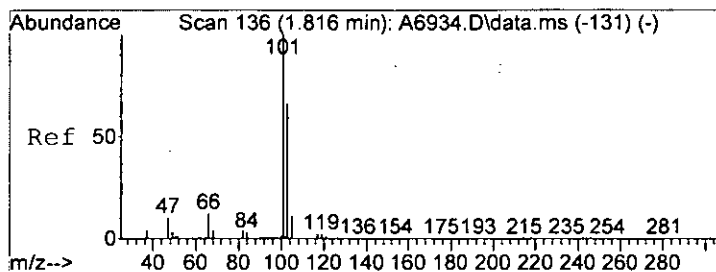
Tgt Ion: 62 Resp: 1294832
 Ion Ratio Lower Upper
 62 100
 64 29.3 11.7 51.7



#7
 Freon 21
 Concen: 2.53 ug/L m
 RT: 1.762 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: A8865.D
 Acq: 25 May 2015 4:01 pm

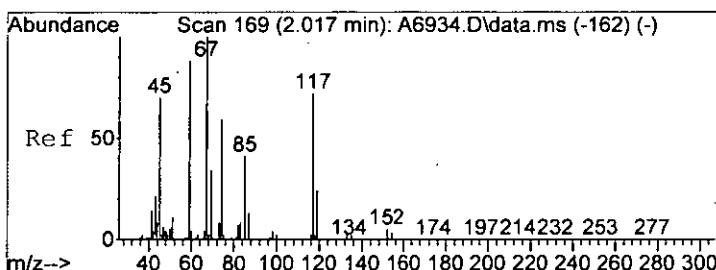
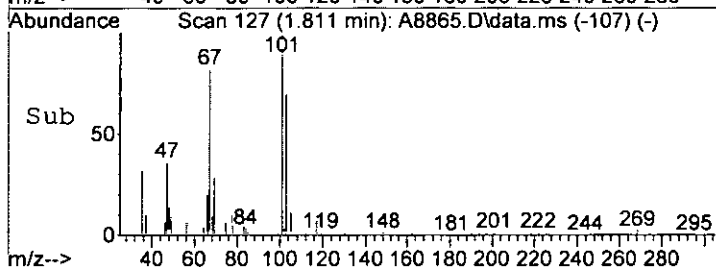
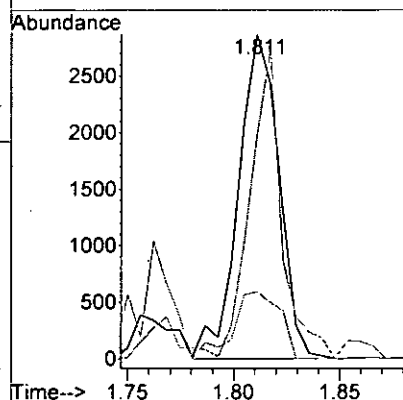
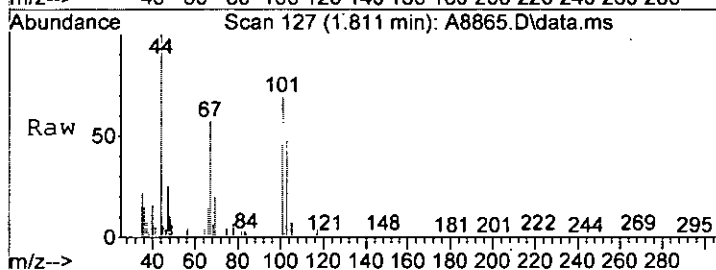
Tgt Ion: 67 Resp: 38641
 Ion Ratio Lower Upper
 67 100
 69 36.8 10.4 50.4





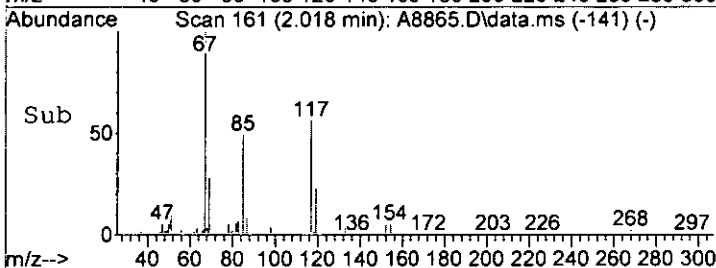
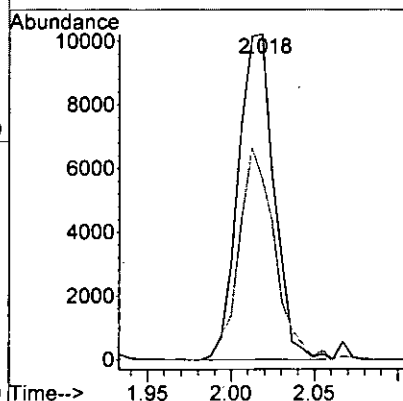
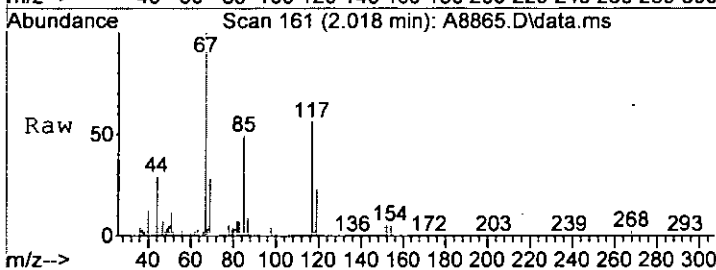
#8
 Trichlorofluoromethane
 Concen: 0.31 ug/L
 RT: 1.811 min Scan# 127
 Delta R.T. 0.000 min
 Lab File: A8865.D
 Acq: 25 May 2015 4:01 pm

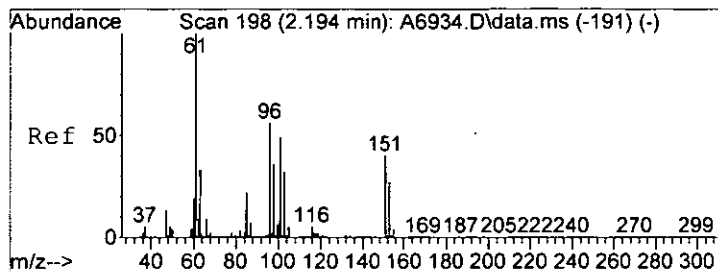
Tgt Ion: 101 Resp: 3780
 Ion Ratio Lower Upper
 101 100
 103 69.0 43.9 83.9
 66 20.6 0.0 33.3



#10
 Freon 123a
 Concen: 1.64 ug/L
 RT: 2.018 min Scan# 161
 Delta R.T. 0.006 min
 Lab File: A8865.D
 Acq: 25 May 2015 4:01 pm

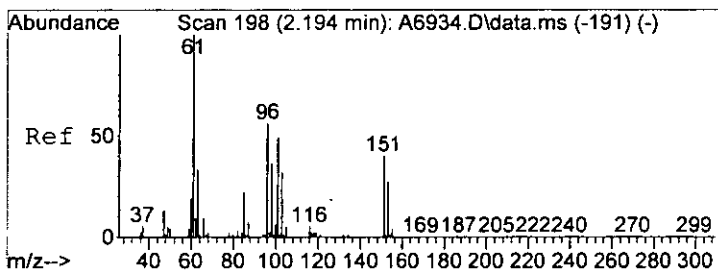
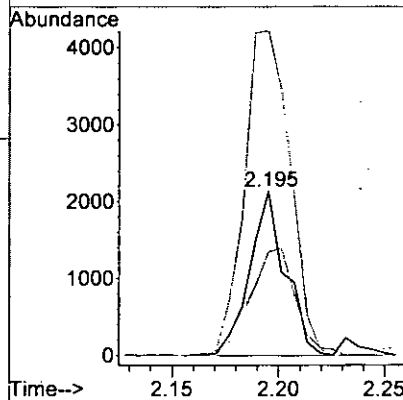
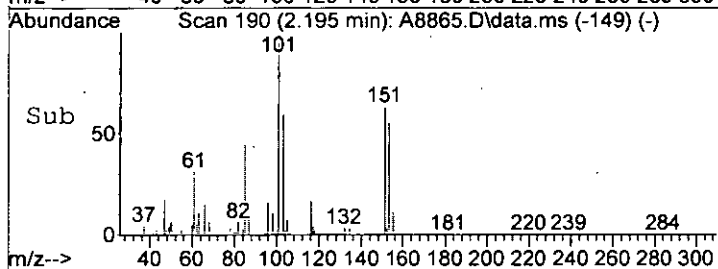
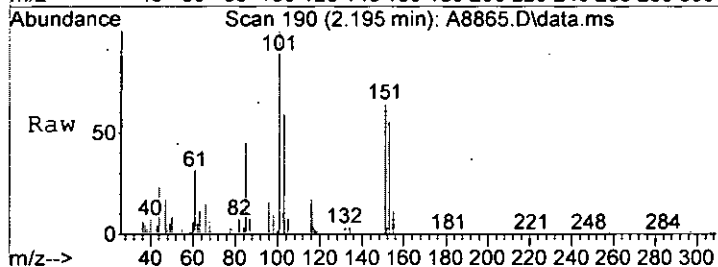
Tgt Ion: 67 Resp: 15227
 Ion Ratio Lower Upper
 67 100
 117 55.8 52.5 92.5





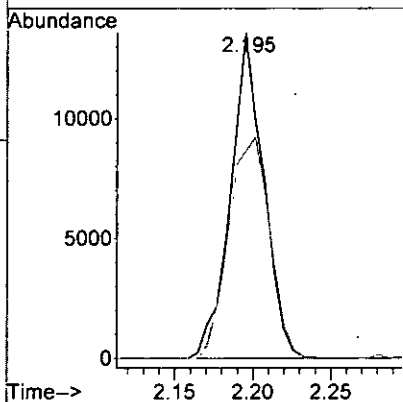
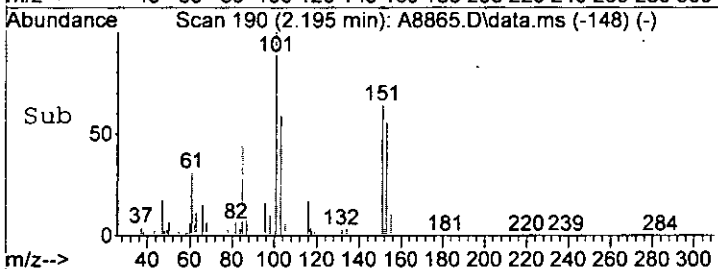
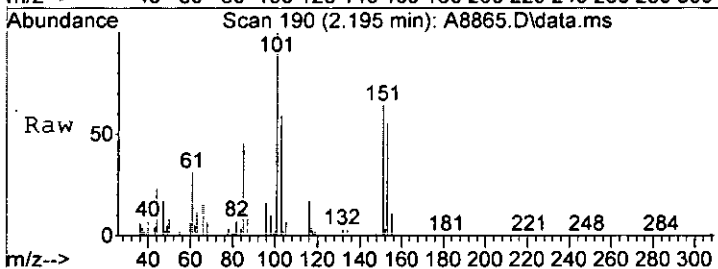
#13
1,1-Dicloroethene
Concen: 0.37 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

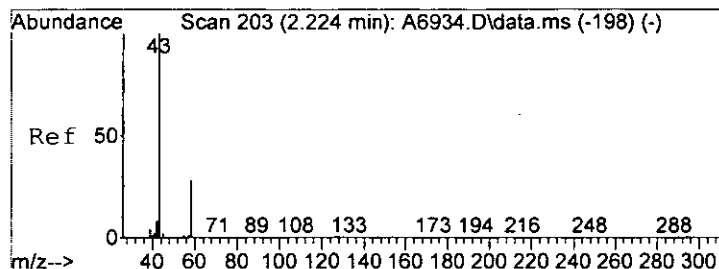
Tgt Ion: 96 Resp: 2476
Ion Ratio Lower Upper
96 100
98 62.9 43.2 83.2
61 197.4 155.6 195.6#



#14
Freon 113
Concen: 2.82 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

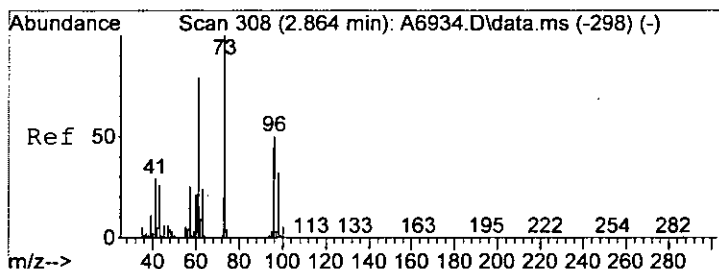
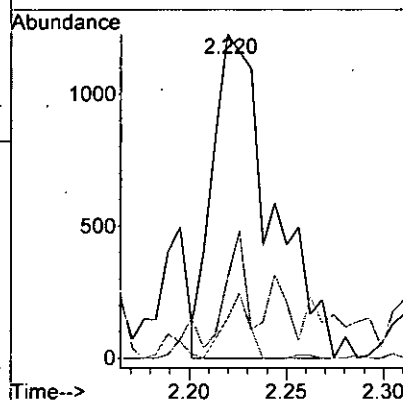
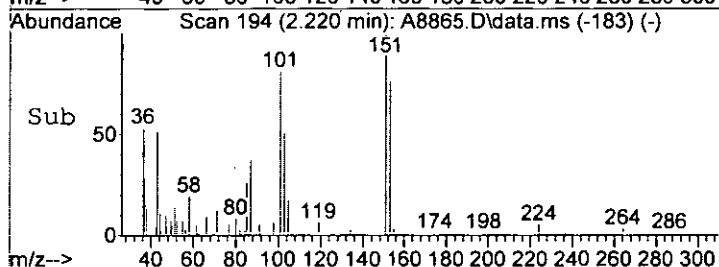
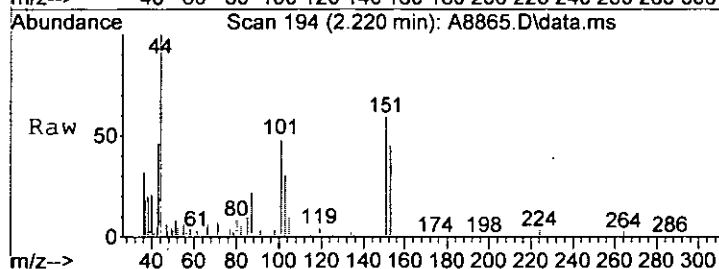
Tgt Ion: 101 Resp: 19940
Ion Ratio Lower Upper
101 100
151 63.5 56.3 96.3





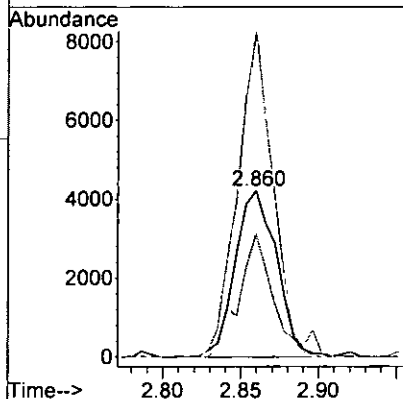
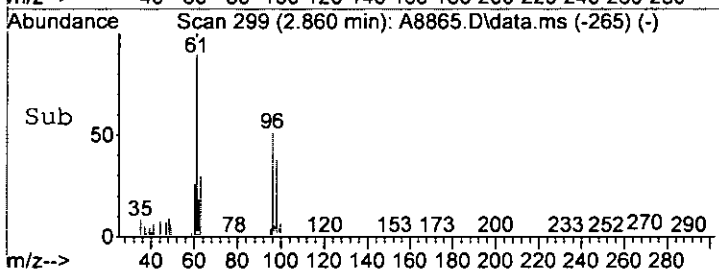
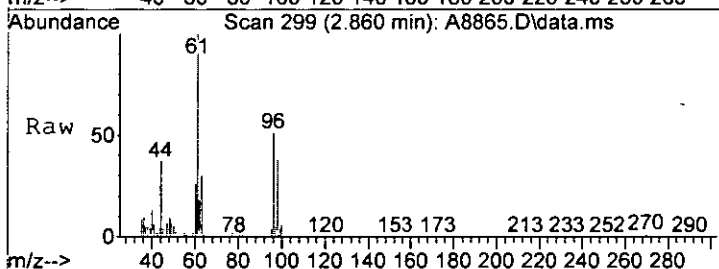
#15
Acetone
Concen: Below Cal
RT: 2.220 min Scan# 194
Delta R.T. -0.005 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

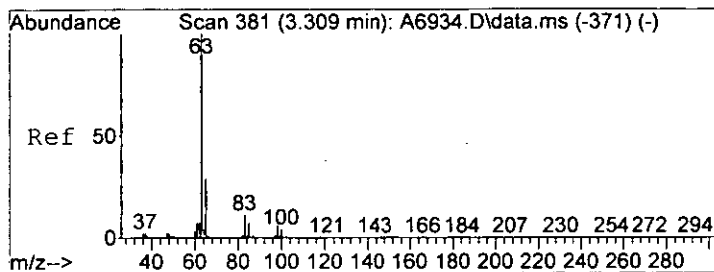
Tgt Ion: 43 Resp: 2579
Ion Ratio Lower Upper
43 100
58 24.1 4.8 44.8
42 11.8 0.0 28.0



#26
trans-1,2-Dichloroethene
Concen: 1.02 ug/L
RT: 2.860 min Scan# 299
Delta R.T. 0.000 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

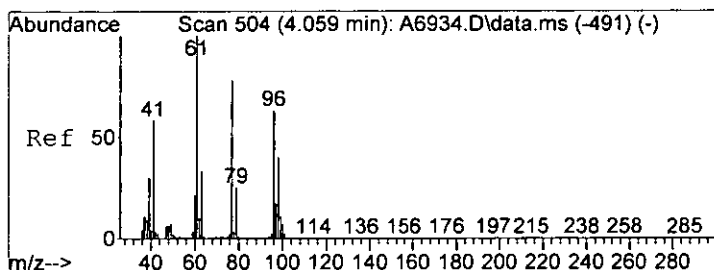
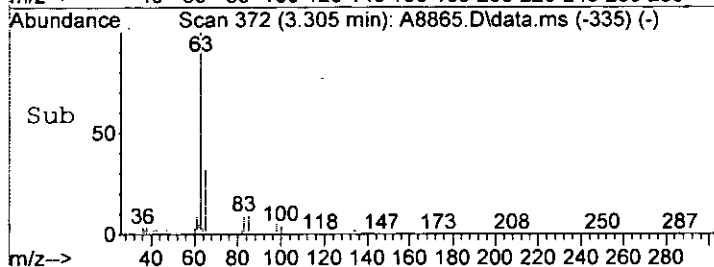
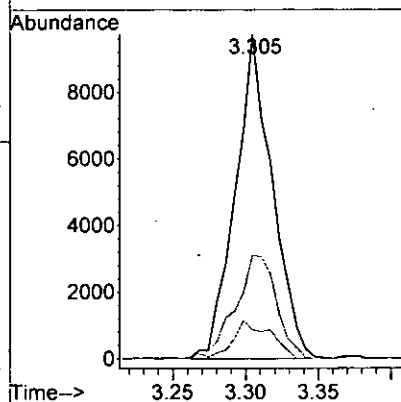
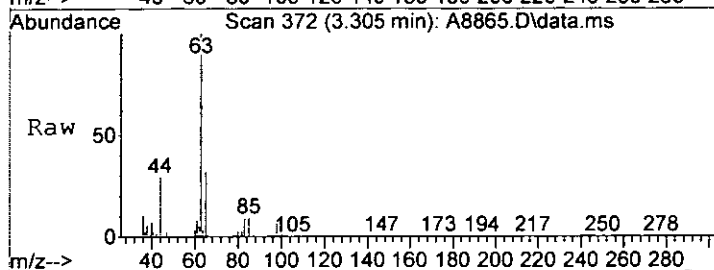
Tgt Ion: 96 Resp: 7745
Ion Ratio Lower Upper
96 100
98 75.3 44.7 84.7
61 195.9 130.9 170.9#





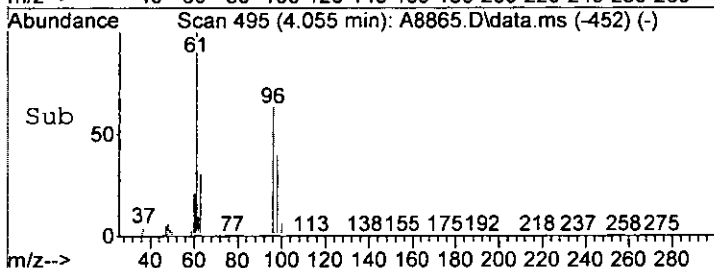
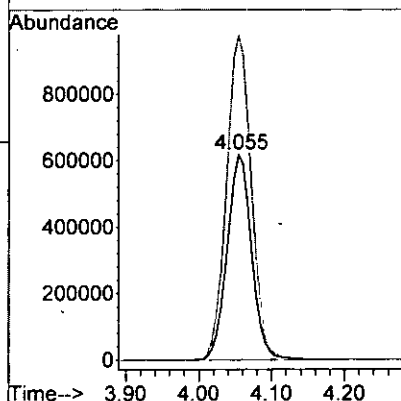
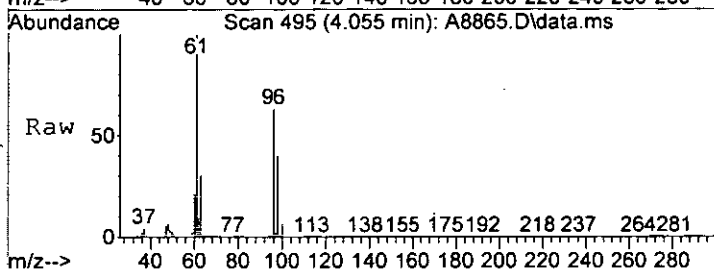
#27
1,1-Dicloroethane
Concen: 1.01 ug/L
RT: 3.305 min Scan# 372
Delta R.T. 0.000 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

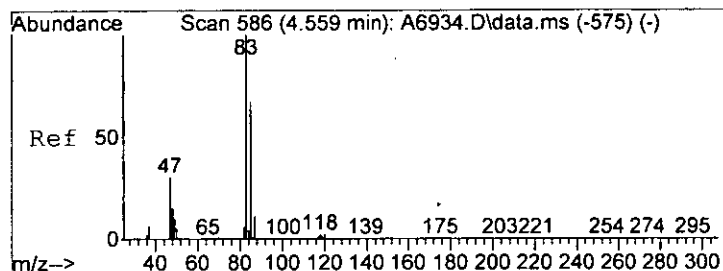
Tgt Ion: 63 Resp: 17156
Ion Ratio Lower Upper
63 100
65 31.9 11.0 51.0
83 8.8 0.0 33.3



#33
cis-1,2-Dichloroethene
Concen: 157.31 ug/L
RT: 4.055 min Scan# 495
Delta R.T. 0.000 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

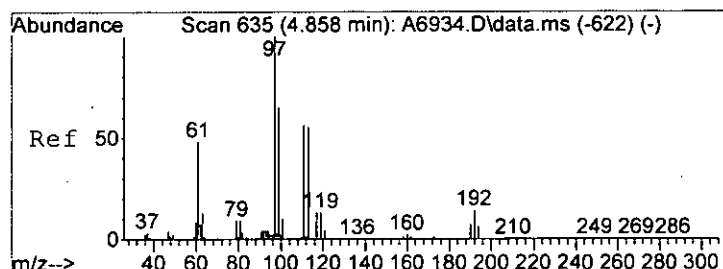
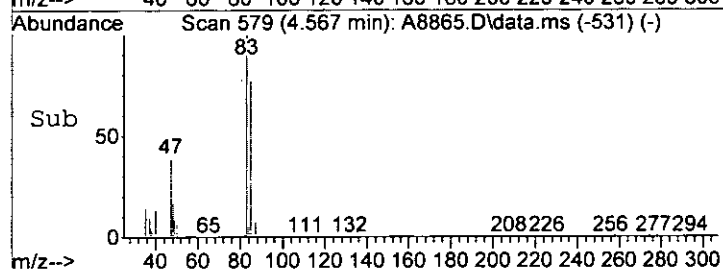
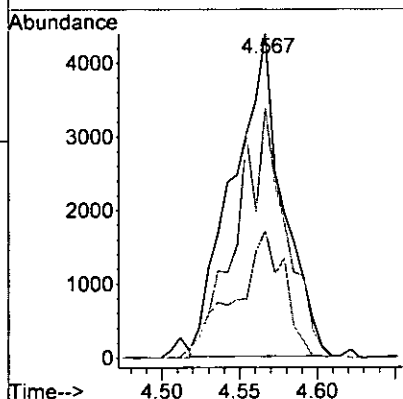
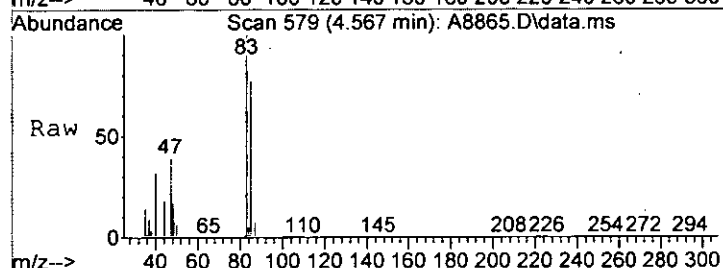
Tgt Ion: 96 Resp: 1434813
Ion Ratio Lower Upper
96 100
61 158.6 138.8 178.8





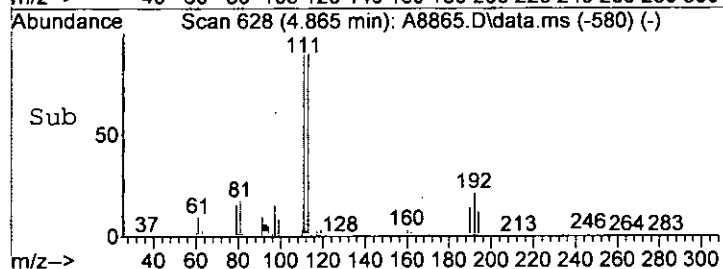
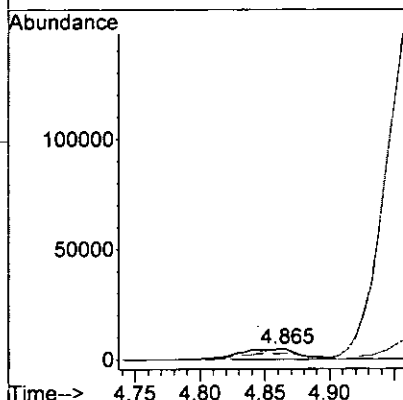
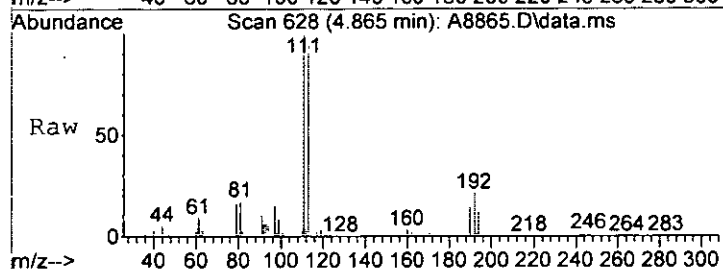
#39
Chloroform
Concen: 0.65 ug/L
RT: 4.567 min Scan# 579
Delta R.T. 0.006 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

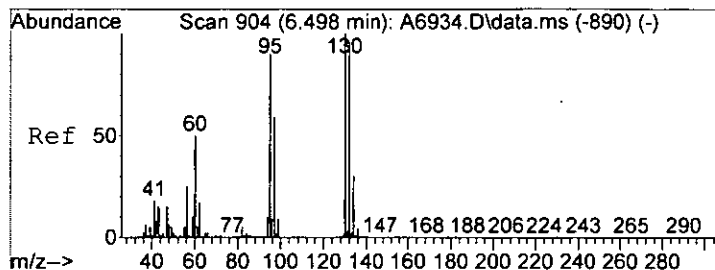
Tgt Ion: 83 Resp: 9755
Ion Ratio Lower Upper
83 100
85 77.1 44.0 84.0
47 39.2 9.9 49.9



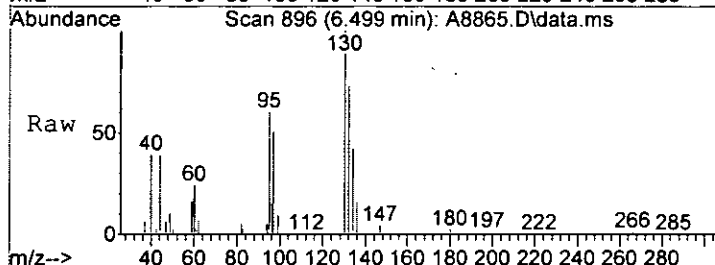
#40
1,1,1-Trichloroethane
Concen: 1.10 ug/L
RT: 4.865 min Scan# 628
Delta R.T. 0.012 min
Lab File: A8865.D
Acq: 25 May 2015 4:01 pm

Tgt Ion: 97 Resp: 14162
Ion Ratio Lower Upper
97 100
99 52.4 40.9 80.9
61 62.7 25.2 65.2

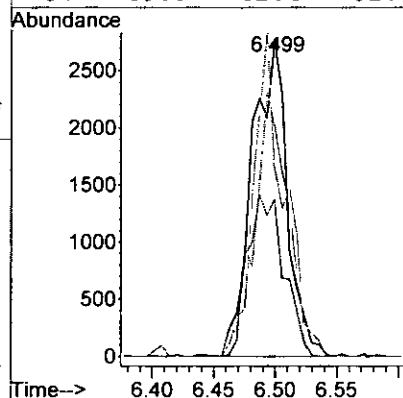
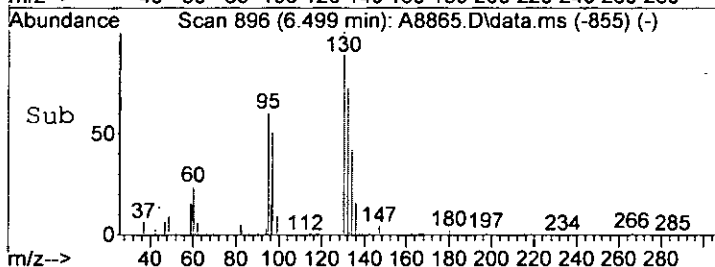




#53
 Trichloroethene
 Concen: 0.56 ug/L
 RT: 6.499 min Scan# 896
 Delta R.T. 0.000 min
 Lab File: A8865.D
 Acq: 25 May 2015 4:01 pm



Tgt Ion: 130 Resp: 5486
 Ion Ratio Lower Upper
 130 100
 132 73.4 76.6 116.6#
 95 60.1 76.5 116.5#
 97 49.9 42.4 82.4



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:47

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8839.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.2	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	0.48 J	1.0	0.33	
75-34-3	1,1-Dichloroethane	0.40 J	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	26	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-6-150518
Lab Code: R1503862-007

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 01:47

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8839.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85-122	5/25/15 01:47	
Toluene-d8	97	87-121	5/25/15 01:47	
Dibromofluoromethane	100	89-119	5/25/15 01:47	

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8839.D
 Acq On : 25 May 2015 1:47 am
 Operator : F.Naegler
 Sample : R1503862-007|1.0
 Misc : CBI 13429 T4
 ALS Vial : 35 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 11:08:22 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	4.969	168	938865	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1454250	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1306663	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	725624	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	453627	49.98	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	99.96%		
46) surr1,1,2-dichloroetha...	5.414	65	467141	50.09	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	100.18%		
64) SURR3,Toluene-d8	8.042	98	1676156	48.45	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	96.90%		
69) SURR2,BFB	10.675	95	619309	44.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	88.08%		
Target Compounds						
4) Vinyl Chloride	1.348	62	15888	1.22	ug/L	88
7) Freon 21	1.762	67	11664m	0.75	ug/L	
10) Freon 123a	2.018	67	4301	0.45	ug/L #	58
14) Freon 113	2.195	101	2209	0.31	ug/L	95
15) Acetone	2.232	43	3796	Below	Cal	86
26) trans-1,2-Dichloroethene	2.860	96	3706	0.48	ug/L	94
27) 1,1-Dicethane	3.311	63	7005	0.40	ug/L	90
33) cis-1,2-Dichloroethene	4.055	96	246382	26.40	ug/L	92

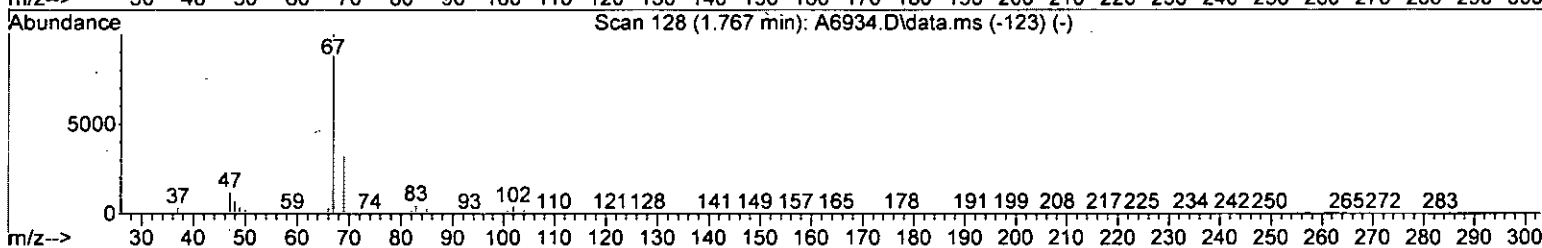
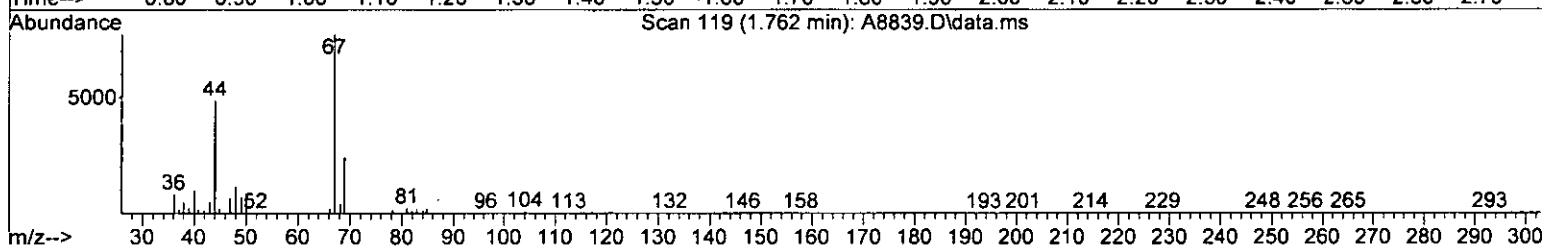
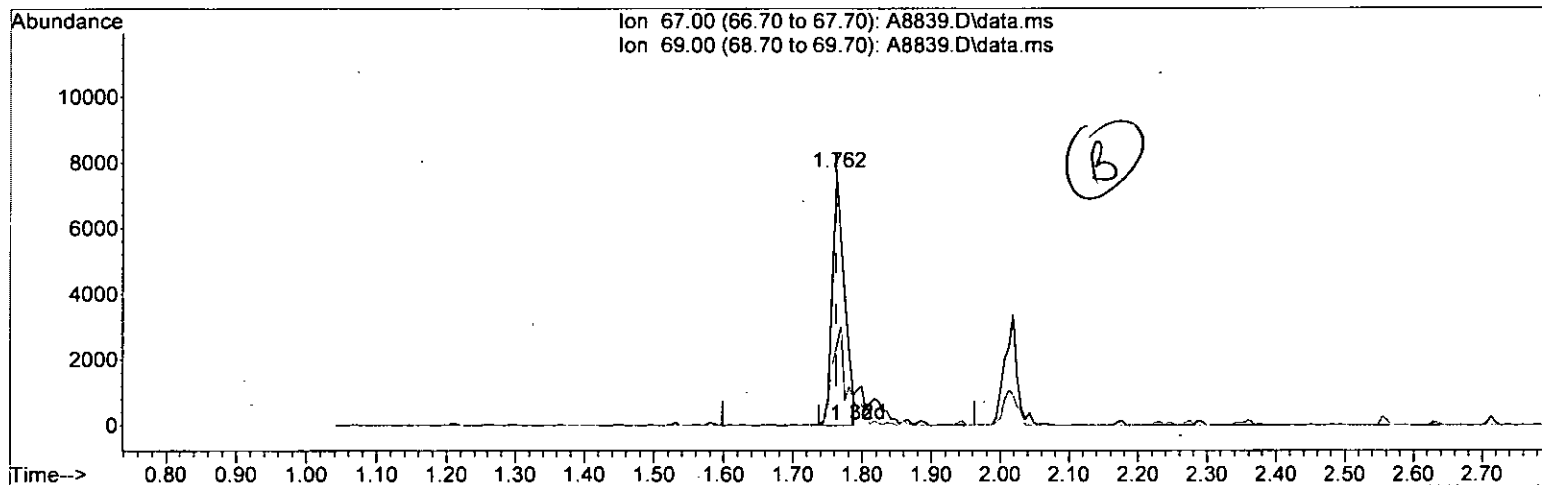
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Handwritten:
 142
 5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8839.D
Acq On : 25 May 2015 1:47 am
Operator : F.Naegler
Sample : R1503862-007|1.0
Misc : CBI 13429 T4
ALS Vial : 35 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 02:02:09 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8839.D\data.ms

(7) Freon 21

1.762min (+0.000) 0.59 ug/L

response 9249

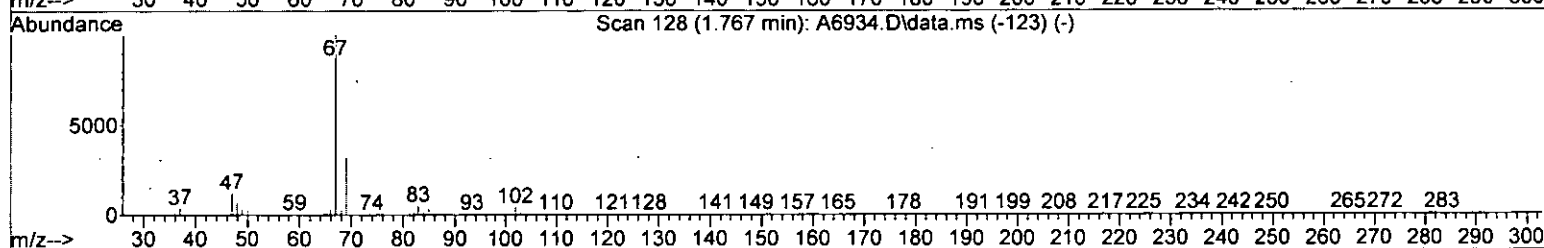
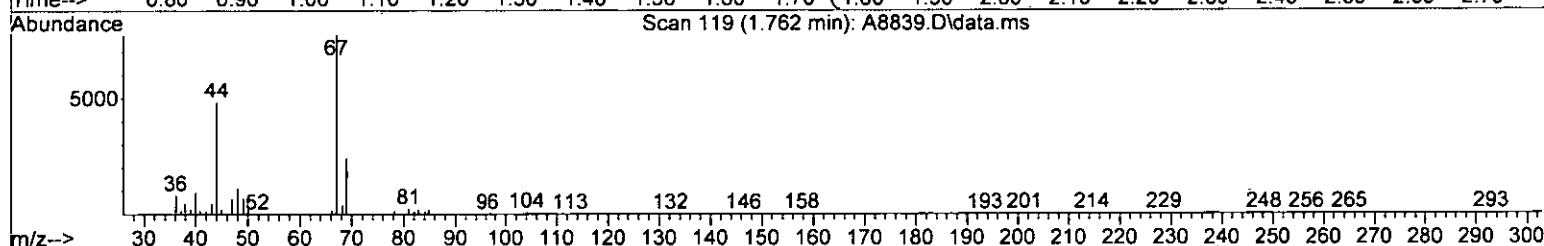
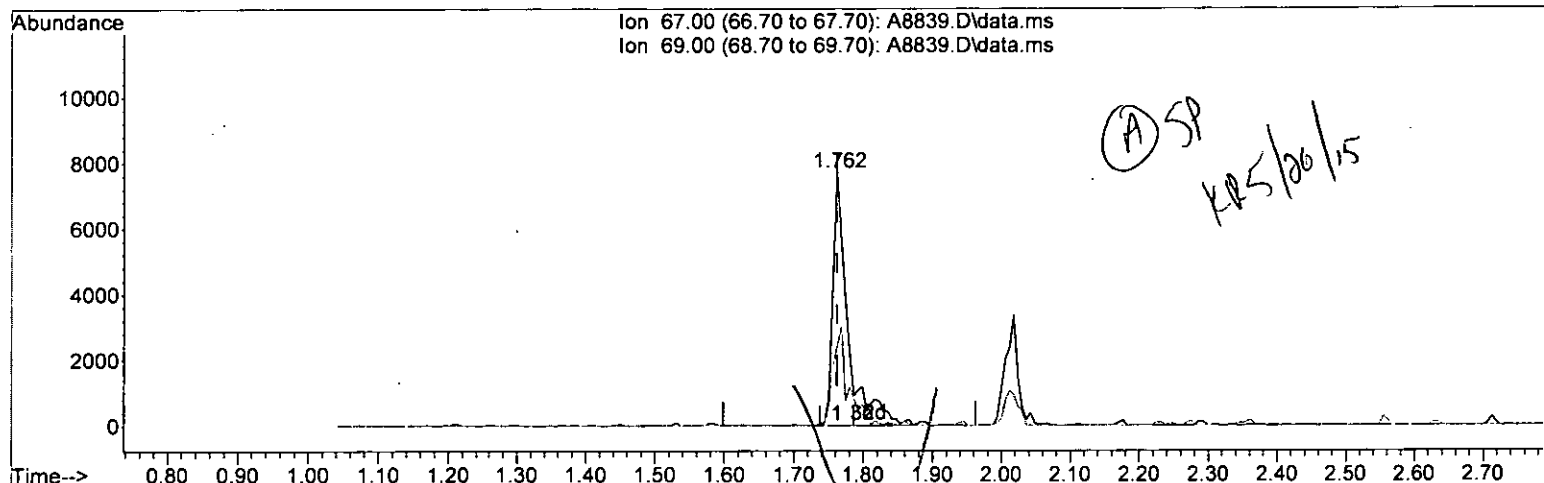
Ion	Exp%	Act%
67.00	100	100
69.00	30.40	31.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8839.D
 Acq On : 25 May 2015 1:47 am
 Operator : F.Naegler
 Sample : R1503862-007|1.0
 Misc : CBI 13429 T4
 ALS Vial : 35 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 02:02:09 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8839.D\data.ms

(7) Freon 21

1.762min (+0.000) 0.75 ug/L m

response 11664

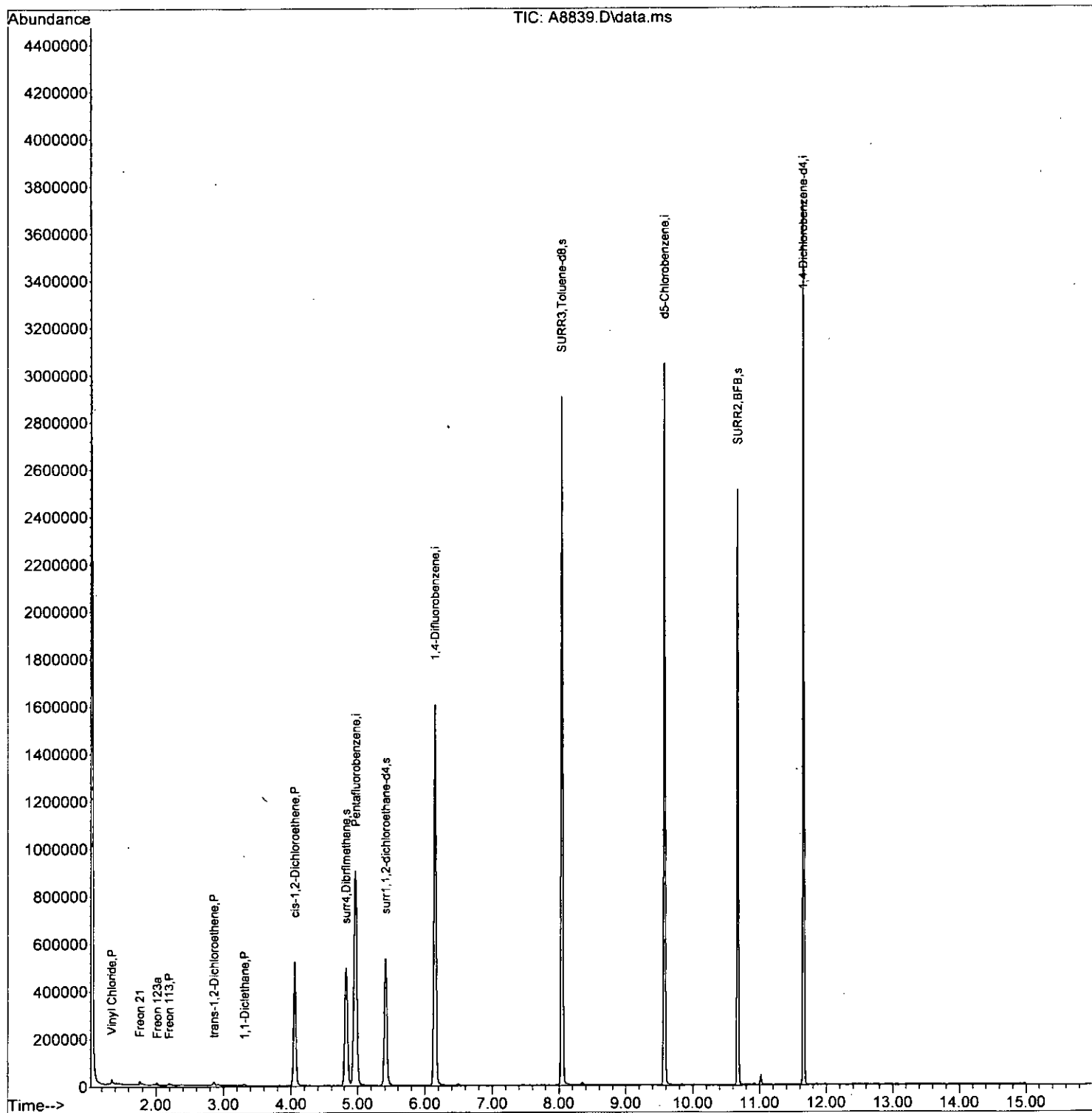
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69.00	30.40	31.15
0.00	0.00	0.00
0.00	0.00	0.00

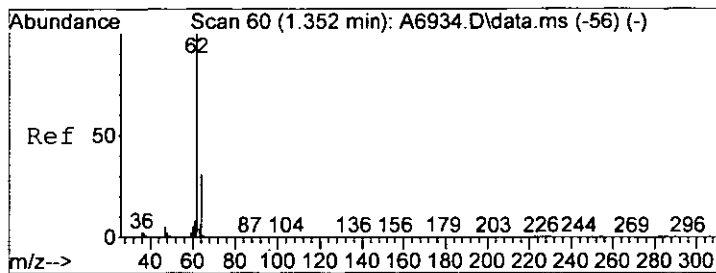
Handwritten signature

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8839.D
Acq On : 25 May 2015 1:47 am
Operator : F.Naegler
Sample : R1503862-007|1.0
Misc : CBI 13429 T4
ALS Vial : 35 Sample Multiplier: 1

Inst : MSVOA10

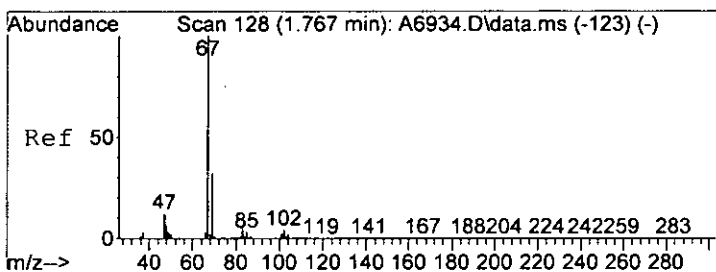
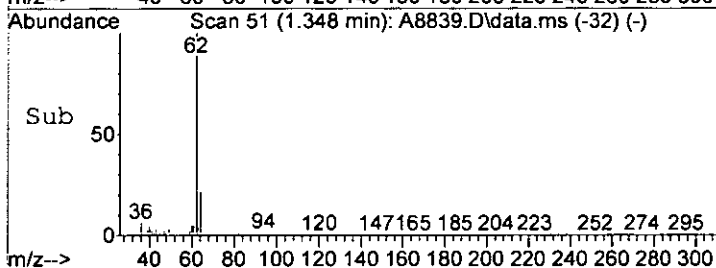
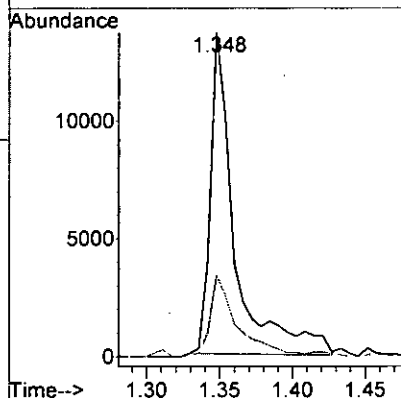
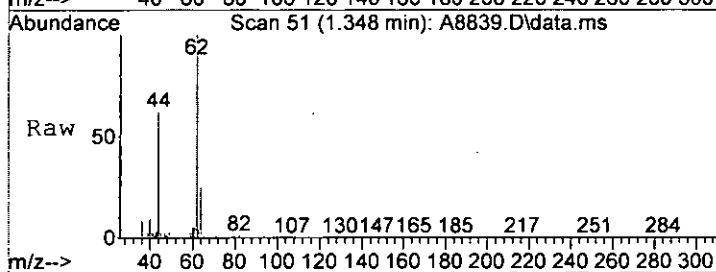
Quant Time: May 26 11:08:22 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





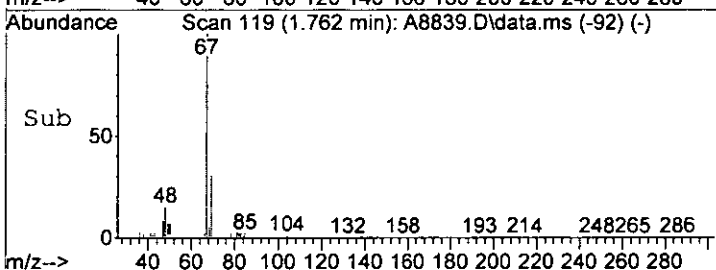
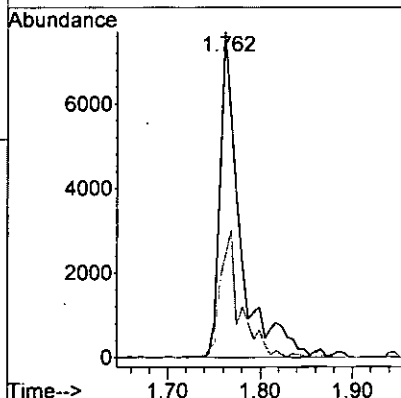
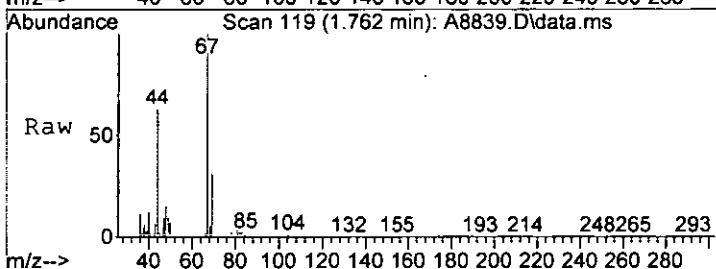
#4
 Vinyl Chloride
 Concen: 1.22 ug/L
 RT: 1.348 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: A8839.D
 Acq: 25 May 2015 1:47 am

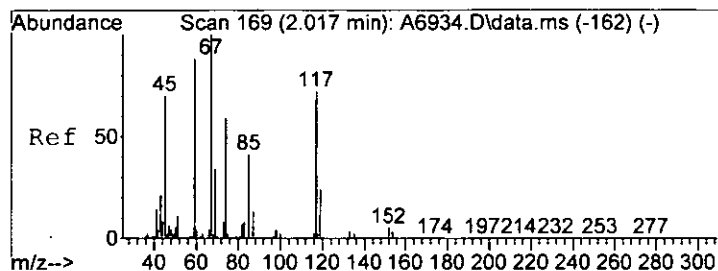
Tgt Ion: 62 Resp: 15888
 Ion Ratio Lower Upper
 62 100
 64 25.1 11.7 51.7



#7
 Freon 21
 Concen: 0.75 ug/L m
 RT: 1.762 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: A8839.D
 Acq: 25 May 2015 1:47 am

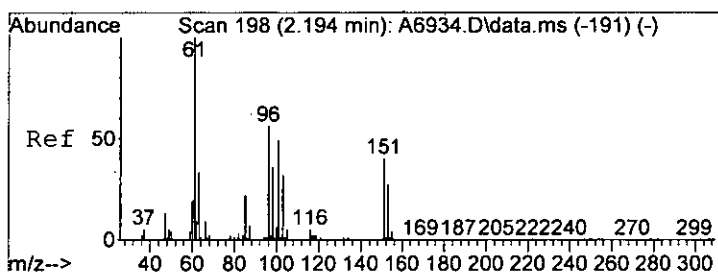
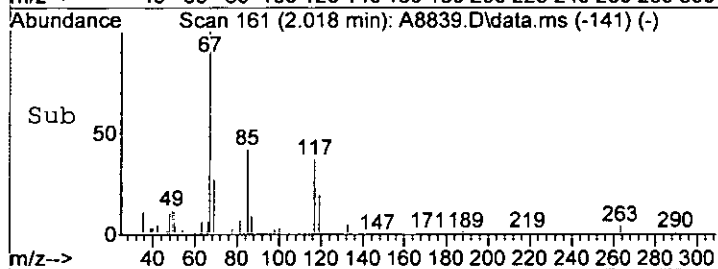
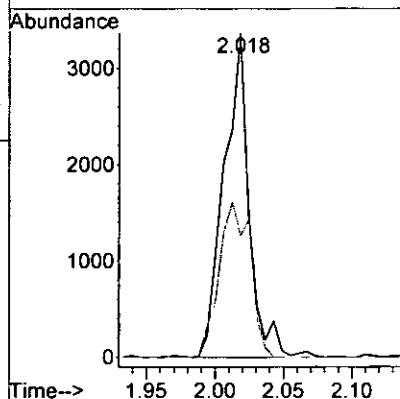
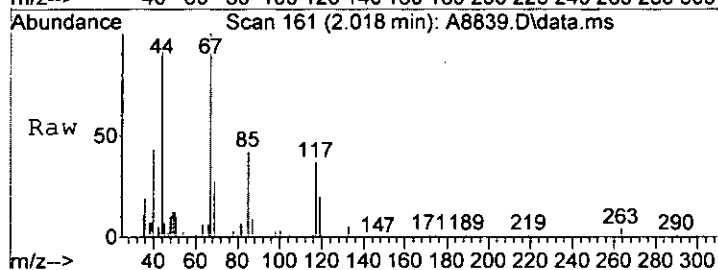
Tgt Ion: 67 Resp: 11664
 Ion Ratio Lower Upper
 67 100
 69 31.1 10.4 50.4





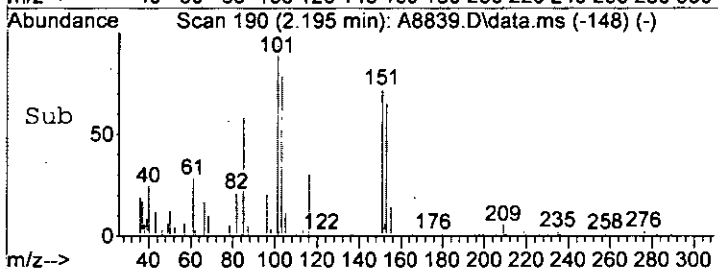
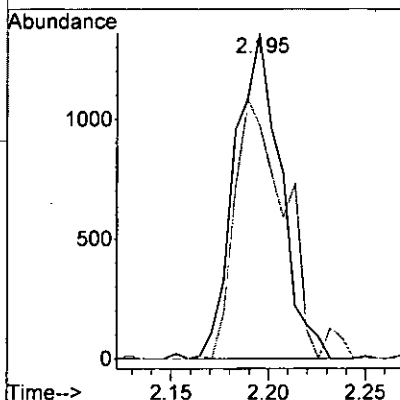
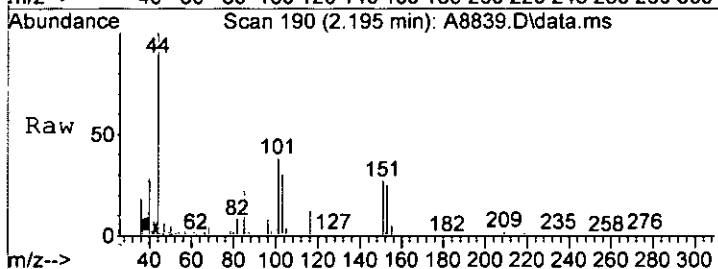
#10
Freon 123a
Concen: 0.45 ug/L
RT: 2.018 min Scan# 161
Delta R.T. 0.006 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

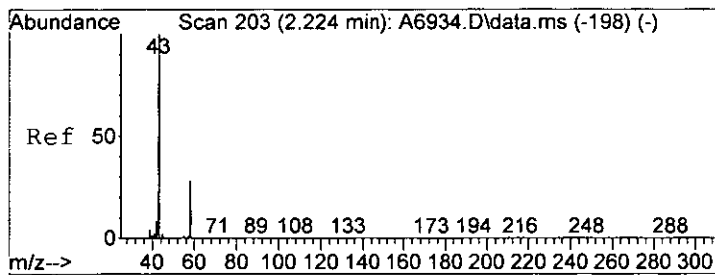
Tgt Ion: 67 Resp: 4301
Ion Ratio Lower Upper
67 100
117 37.4 52.5 92.5#



#14
Freon 113
Concen: 0.31 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

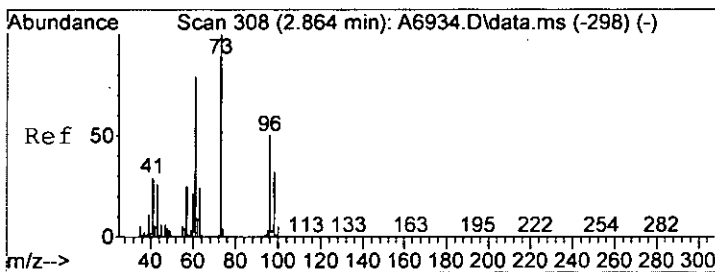
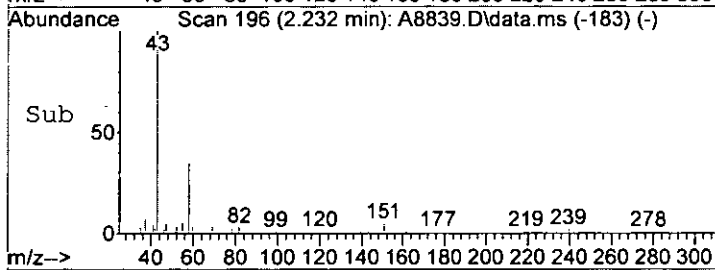
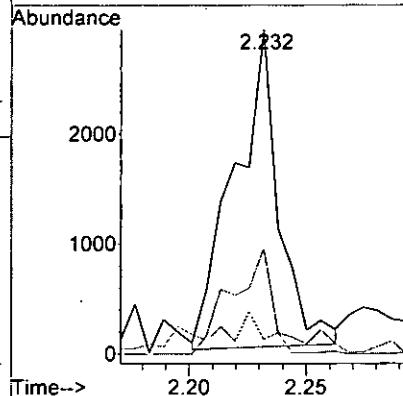
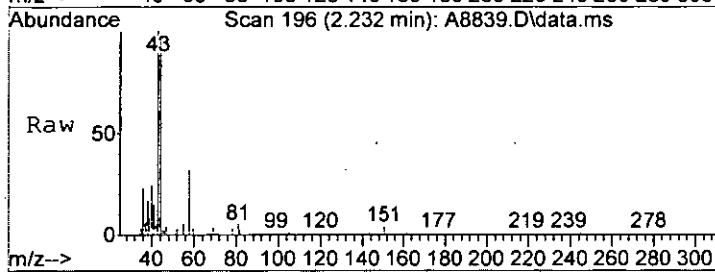
Tgt Ion: 101 Resp: 2209
Ion Ratio Lower Upper
101 100
151 71.9 56.3 96.3





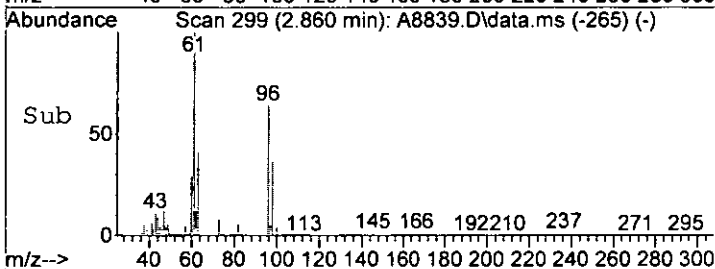
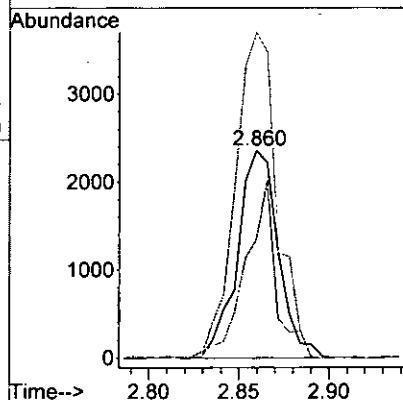
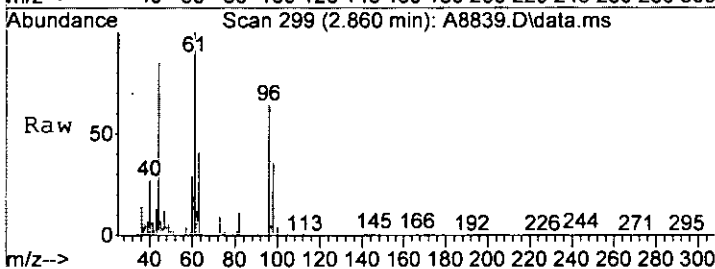
#15
Acetone
Concen: Below Cal
RT: 2.232 min Scan# 196
Delta R.T. 0.007 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

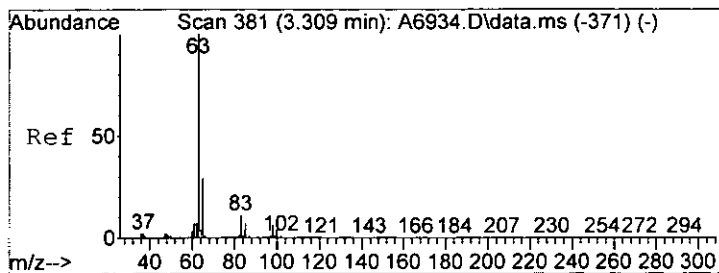
Tgt Ion: 43 Resp: 3796
Ion Ratio Lower Upper
43 100
58 32.5 4.8 44.8
42 4.4 0.0 28.0



#26
trans-1,2-Dichloroethene
Concen: 0.48 ug/L
RT: 2.860 min Scan# 299
Delta R.T. 0.000 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

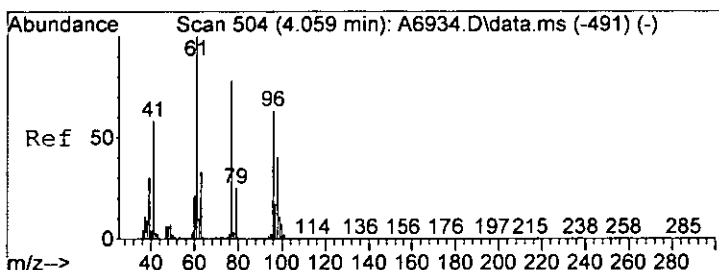
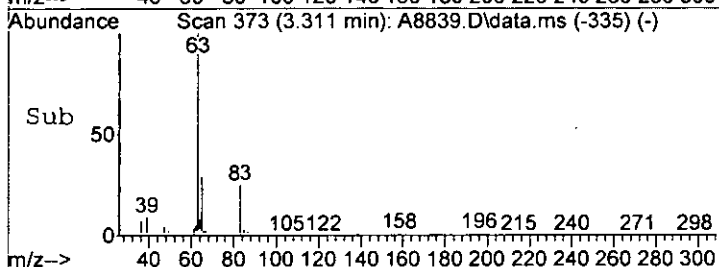
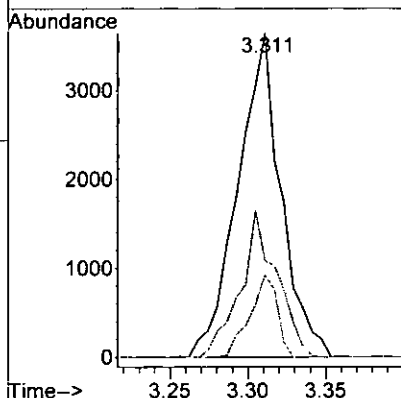
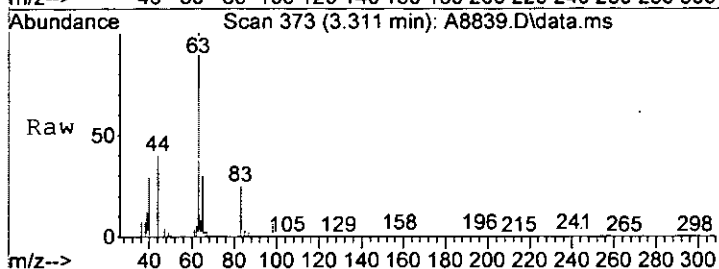
Tgt Ion: 96 Resp: 3706
Ion Ratio Lower Upper
96 100
98 57.0 44.7 84.7
61 157.0 130.9 170.9





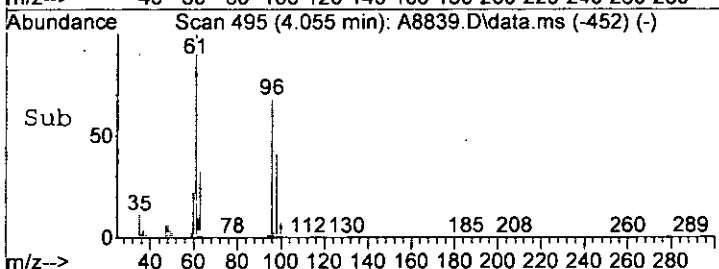
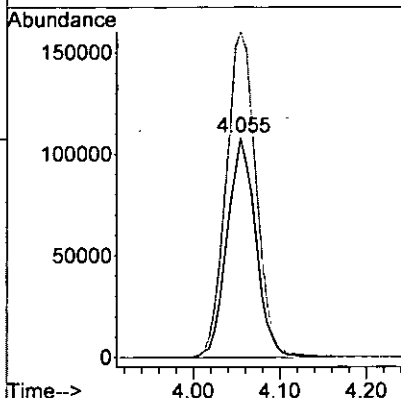
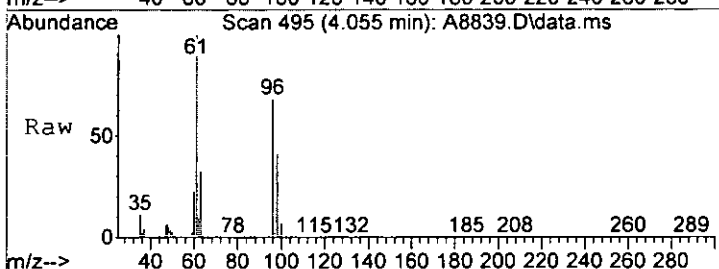
#27
1,1-Dicloroethane
Concen: 0.40 ug/L
RT: 3.311 min Scan# 373
Delta R.T. 0.006 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

Tgt Ion: 63 Resp: 7005
Ion Ratio Lower Upper
63 100
65 29.9 11.0 51.0
83 25.4 0.0 33.3



#33
cis-1,2-Dichloroethene
Concen: 26.40 ug/L
RT: 4.055 min Scan# 495
Delta R.T. 0.000 min
Lab File: A8839.D
Acq: 25 May 2015 1:47 am

Tgt Ion: 96 Resp: 246382
Ion Ratio Lower Upper
96 100
61 148.1 138.8 178.8



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:31

Sample Name: BAT-DUP-2-150518
Lab Code: R1503862-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052515\A8866.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	1200	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	10	10	3.4	
75-34-3	1,1-Dichloroethane	11	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1800	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	6.6 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	13	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	5.3 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15
Date Received: 5/20/15
Date Analyzed: 5/25/15 16:31

Sample Name: BAT-DUP-2-150518
Lab Code: R1503862-008

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8866.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 10

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85-122	5/25/15 16:31	
Toluene-d8	96	87-121	5/25/15 16:31	
Dibromofluoromethane	100	89-119	5/25/15 16:31	

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8866.D
 Acq On : 25 May 2015 4:31 pm
 Operator : K.Ruest
 Sample : R1503862-008|10 Inst : MSVOA10
 Misc : OB+I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 26 16:23:33 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	941074	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1441279	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1312413	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	720266	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	448900	49.91	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	99.82%
46) surr1,1,2-dichloroetha...	5.414	65	467221	50.55	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	101.10%
64) SURR3,Toluene-d8	8.041	98	1654196	48.24	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	96.48%
69) SURR2,BFB	10.675	95	627147	45.00	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	90.00%
Target Compounds						
4) Vinyl Chloride	1.348	62	1513272	116.13	ug/L	98
7) Freon 21	1.762	67	44282m	2.83	ug/L	
8) Trichlorofluoromethane	1.817	101	5362	0.43	ug/L	95
10) Freon 123a	2.012	67	18594	1.95	ug/L	78
13) 1,1-Diclethene	2.195	96	3670	0.53	ug/L #	40
14) Freon 113	2.195	101	24580	3.39	ug/L	93
15) Acetone	2.219	43	1152	Below Cal		88
26) trans-1,2-Dichloroethene	2.853	96	7869	1.01	ug/L	87
27) 1,1-Diclethane	3.305	63	19943	1.14	ug/L	94
33) cis-1,2-Dichloroethene	4.054	96	1706751	182.47	ug/L	100
39) Chloroform	4.554	83	10261	0.66	ug/L	85
40) 1,1,1-Trichloroethane	4.847	97	16997	1.29	ug/L	92
53) Trichloroethene	6.499	130	5310	0.53	ug/L #	80

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

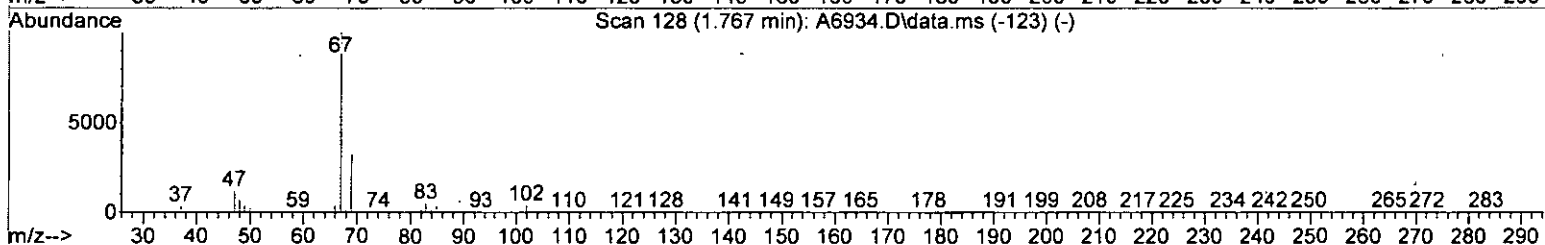
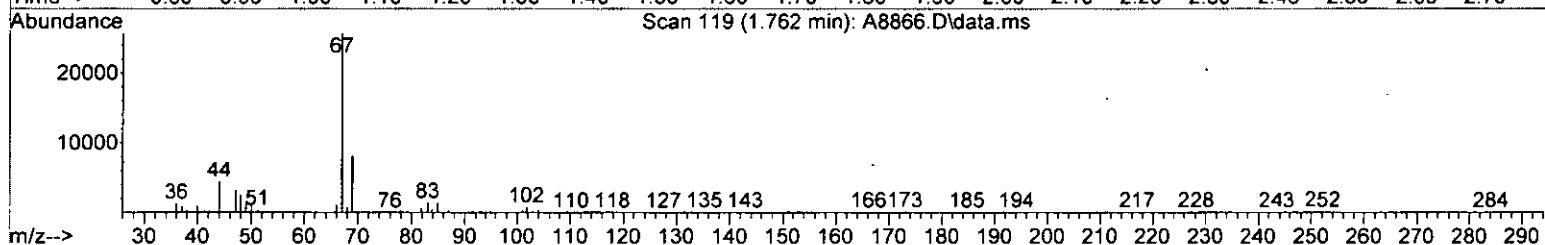
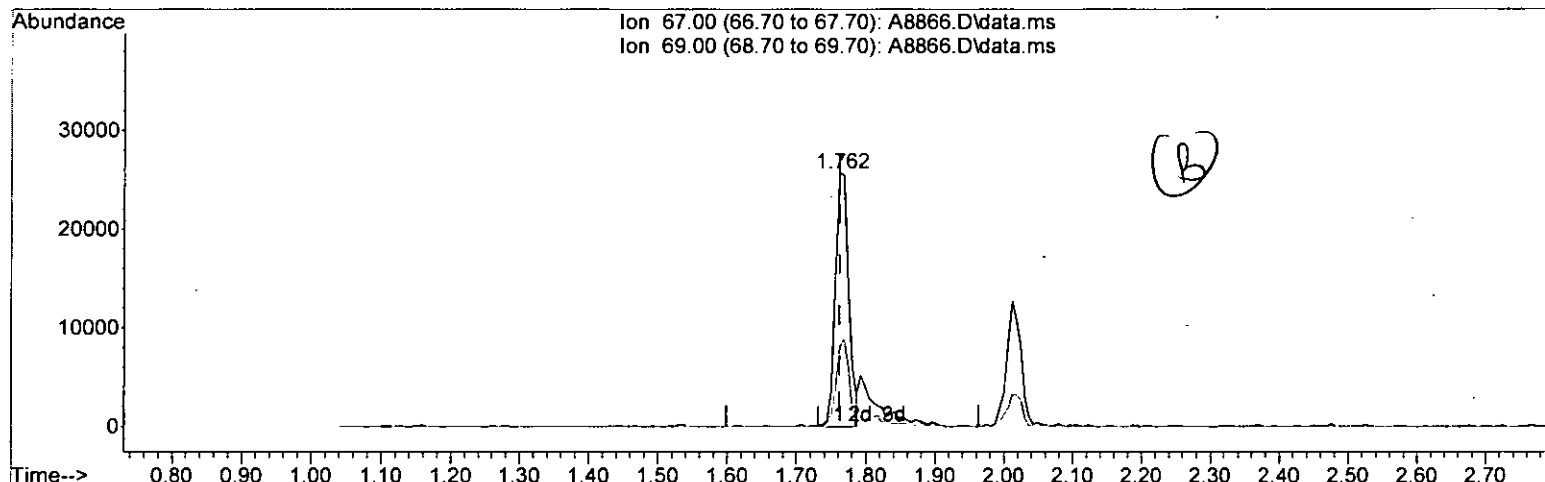
KR
5/26/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8866.D
 Acq On : 25 May 2015 4:31 pm
 Operator : K.Ruest
 Sample : R1503862-008|10
 Misc : OB+I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8866.D\data.ms

(7) Freon 21

1.762min (+0.000) 2.21 ug/L

response 34498

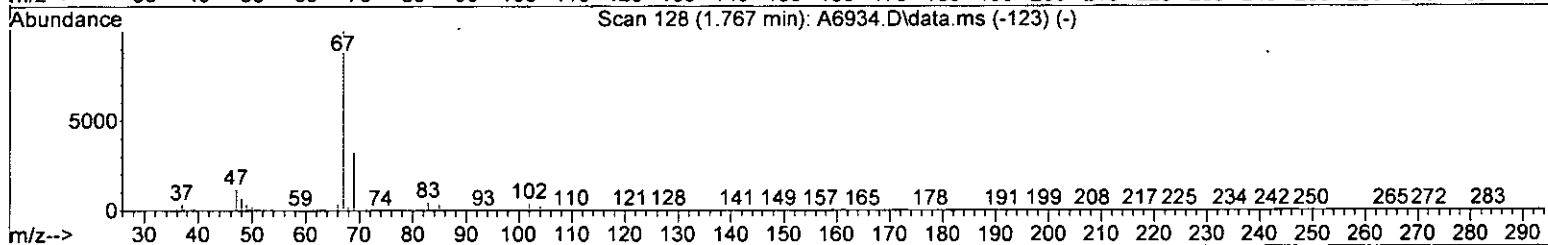
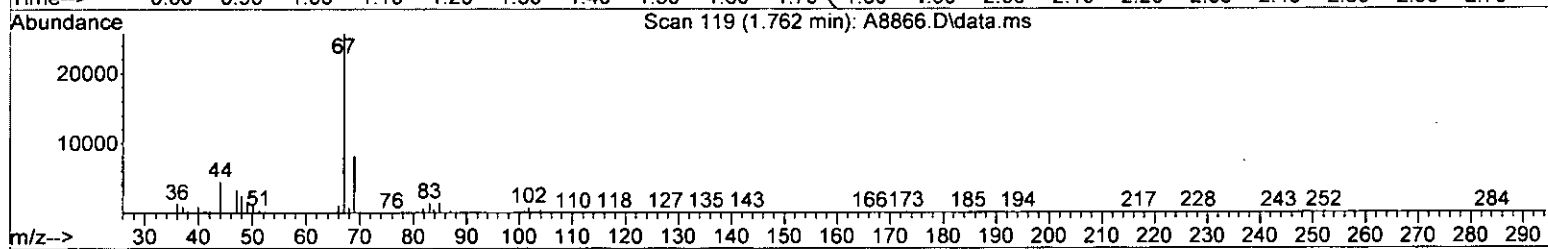
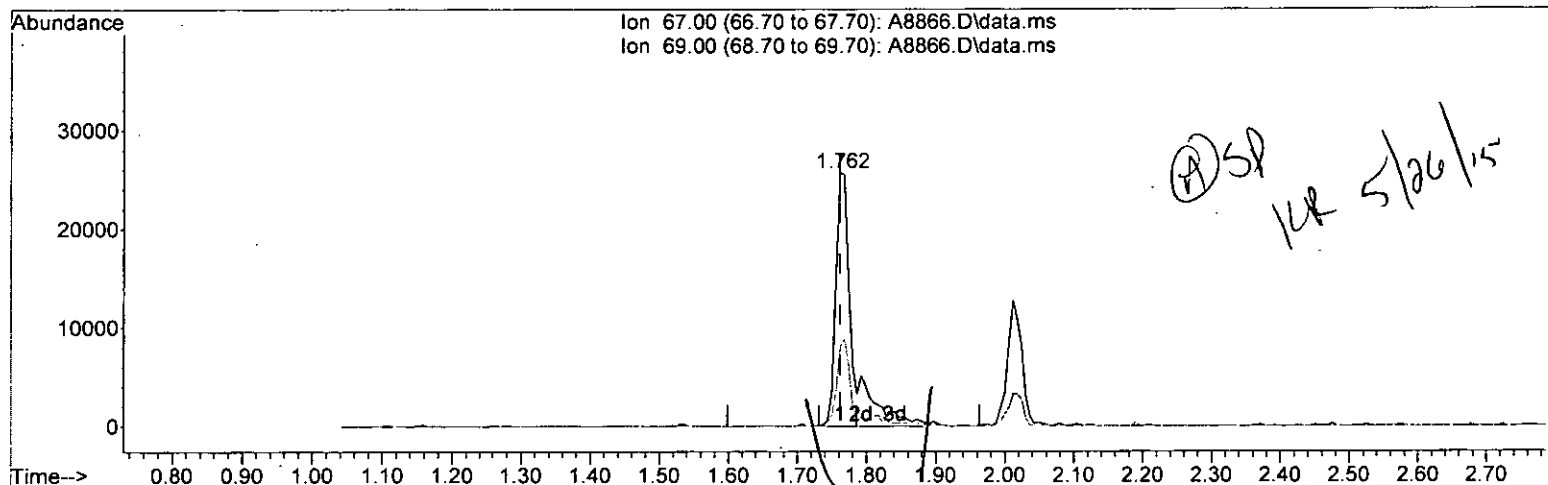
Ion	Exp%	Act%
67.00	100	100
69.00	30.40	31.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8866.D
 Acq On : 25 May 2015 4:31 pm
 Operator : K.Ruest
 Sample : R1503862-008|10
 Misc : OB+I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8866.D\data.ms

(7) Freon 21

1.762min (+0.000) 2.83 ug/L m

response 44282

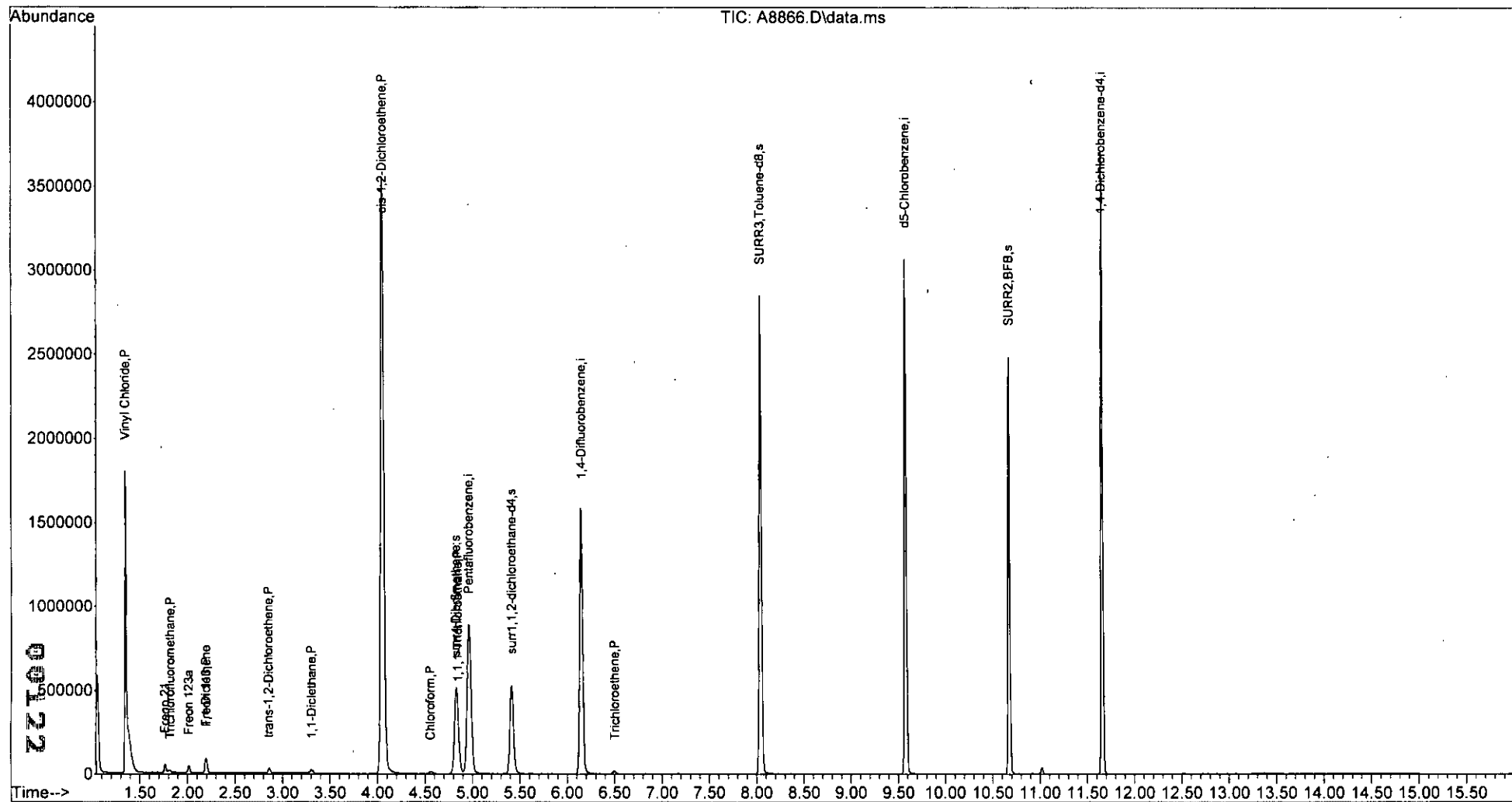
Ion	Exp%	Act%
67.00	100	100
69.00	30.40	31.75
0.00	0.00	0.00
0.00	0.00	0.00

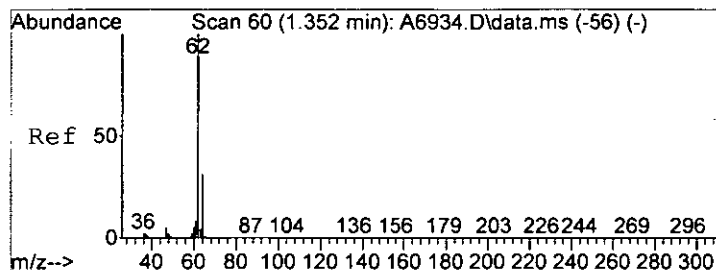
m/ju

Data Path : I:\ACQUDATA\msvoal0\data\052515\
Data File : A8866.D
Acq On : 25 May 2015 4:31 pm
Operator : K.Ruest
Sample : R1503862-008|10
Misc : OB+I 13429 T4
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA10

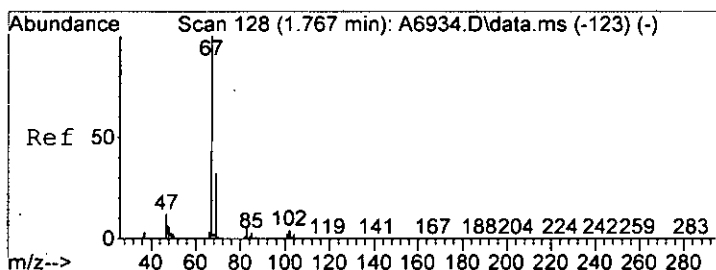
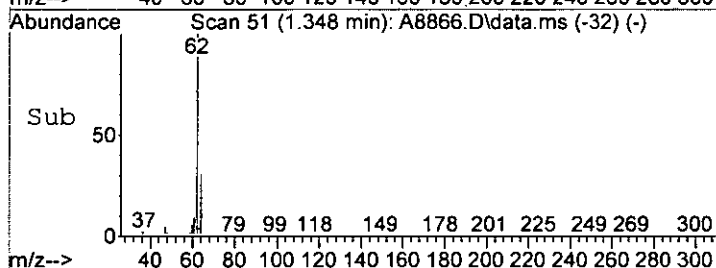
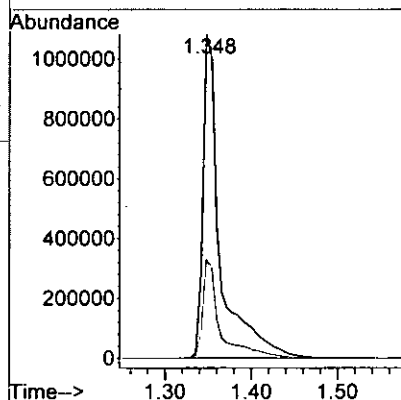
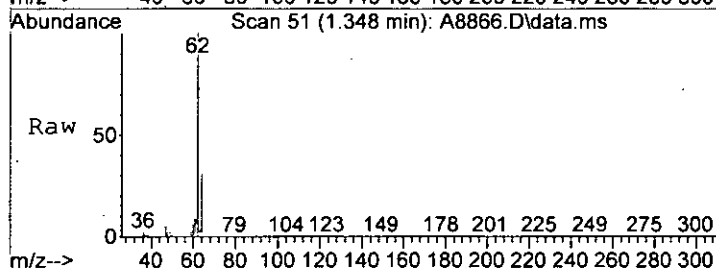
Quant Time: May 26 16:23:33 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





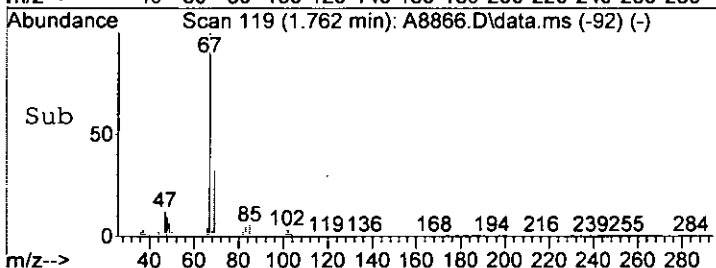
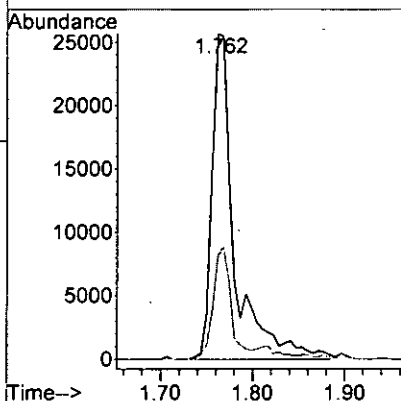
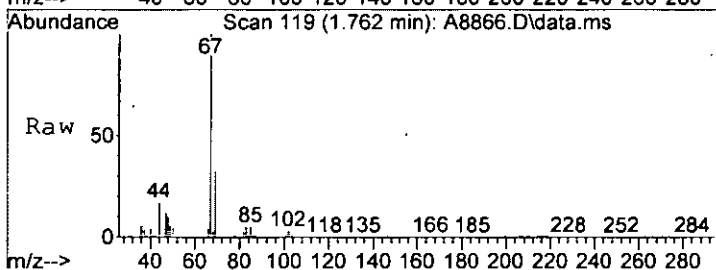
#4
 Vinyl Chloride
 Concen: 116.13 ug/L
 RT: 1.348 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: A8866.D
 Acq: 25 May 2015 4:31 pm

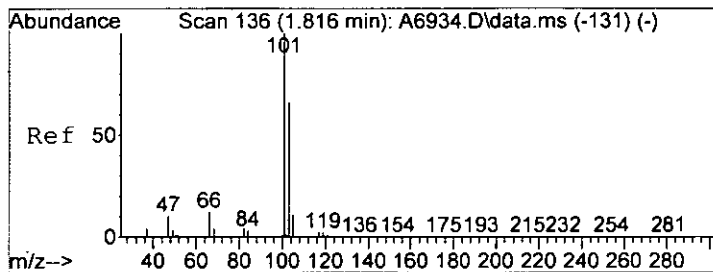
Tgt Ion: 62 Resp: 1513272
 Ion Ratio Lower Upper
 62 100
 64 30.5 11.7 51.7



#7
 Freon 21
 Concen: 2.83 ug/L m
 RT: 1.762 min Scan# 119
 Delta R.T. 0.000 min
 Lab File: A8866.D
 Acq: 25 May 2015 4:31 pm

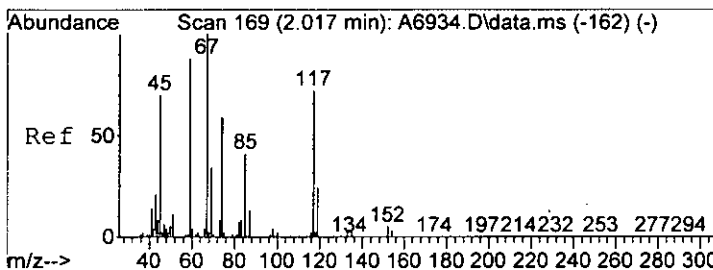
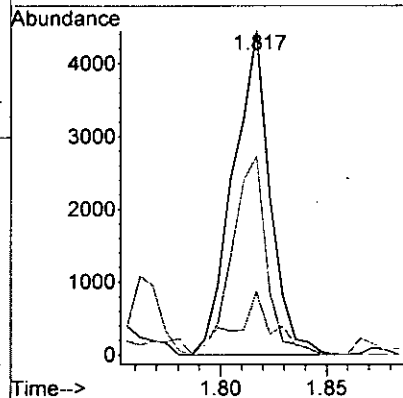
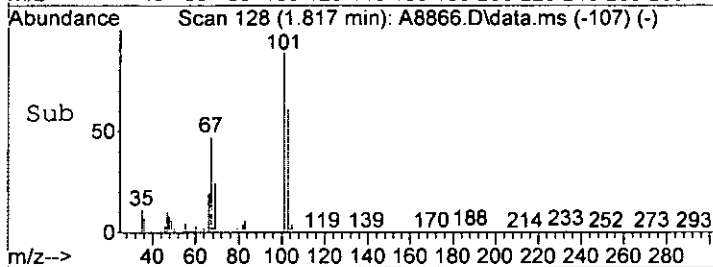
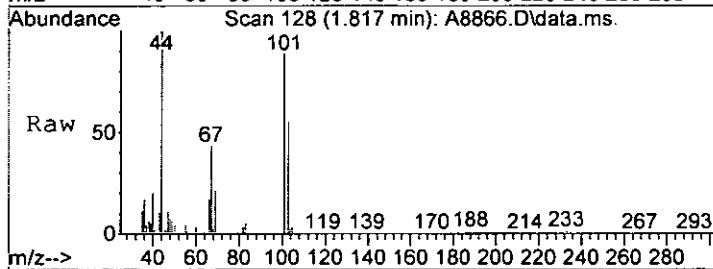
Tgt Ion: 67 Resp: 44282
 Ion Ratio Lower Upper
 67 100
 69 31.8 10.4 50.4





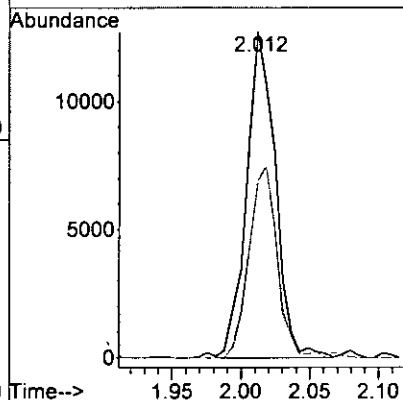
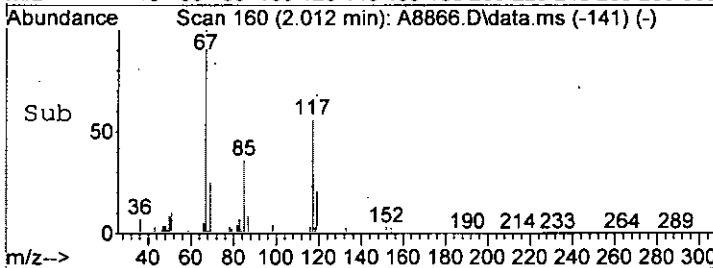
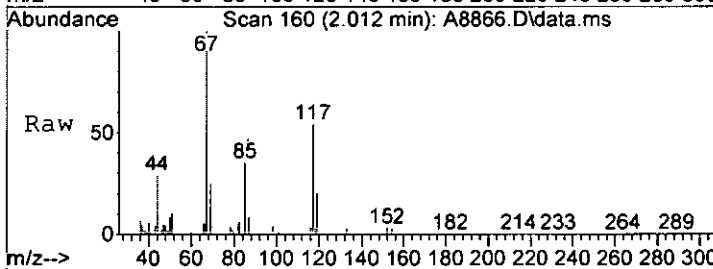
#8
Trichlorofluoromethane
Concen: 0.43 ug/L
RT: 1.817 min Scan# 128
Delta R.T. 0.006 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

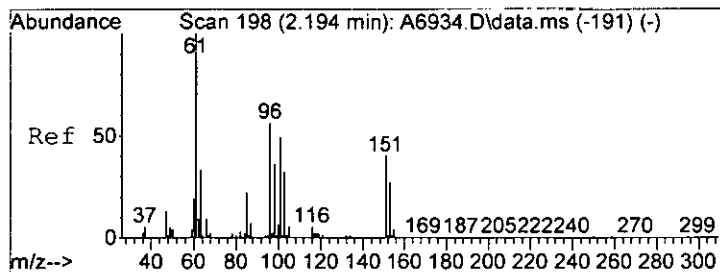
Tgt Ion: 101 Resp: 5362
Ion Ratio Lower Upper
101 100
103 61.2 43.9 83.9
66 19.3 0.0 33.3



#10
Freon 123a
Concen: 1.95 ug/L
RT: 2.012 min Scan# 160
Delta R.T. 0.000 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

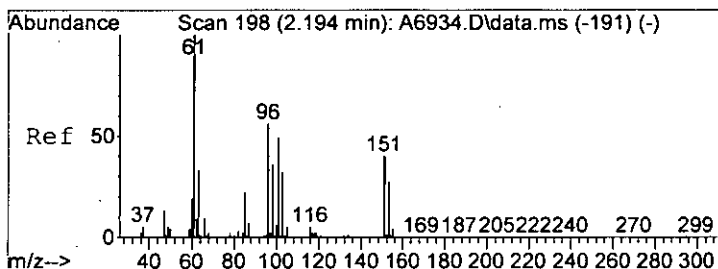
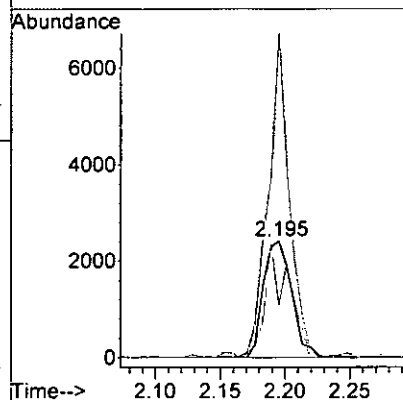
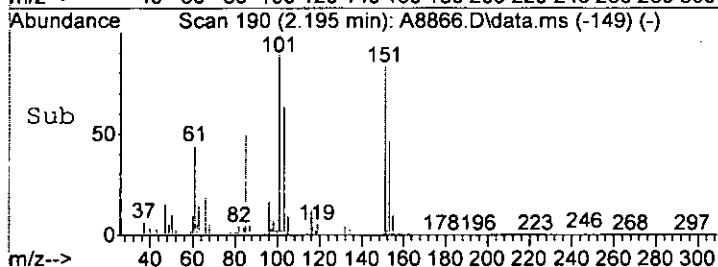
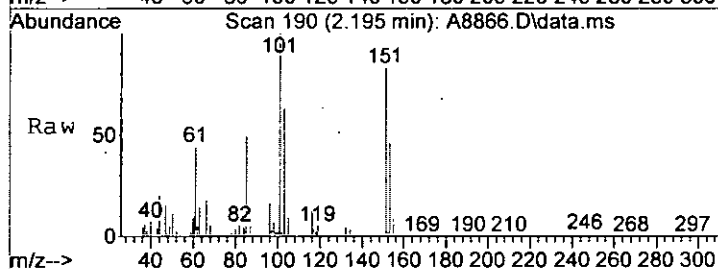
Tgt Ion: 67 Resp: 18594
Ion Ratio Lower Upper
67 100
117 54.4 52.5 92.5





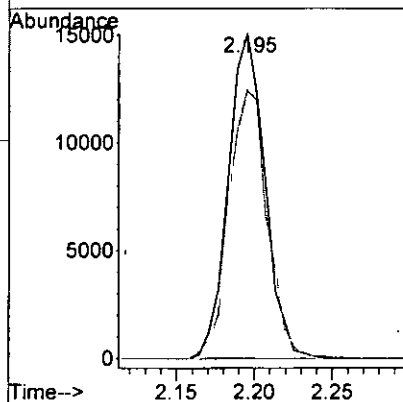
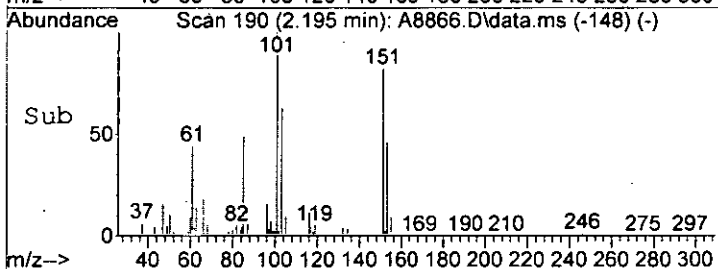
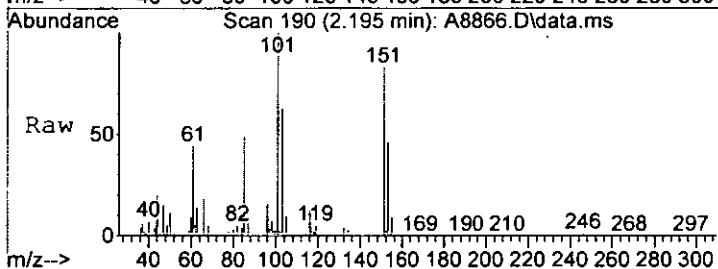
#13
1,1-Dicloroethene
Concen: 0.53 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

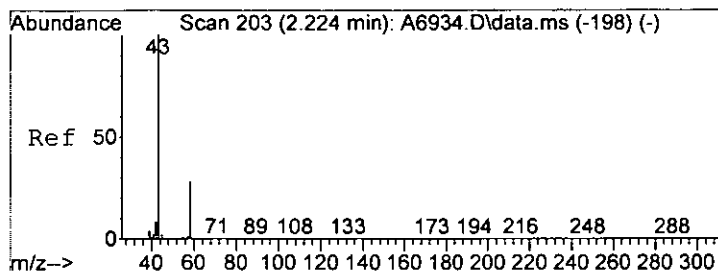
Tgt Ion: 96 Resp: 3670
Ion Ratio Lower Upper
96 100
98 45.3 43.2 83.2
61 278.4 155.6 195.6#



#14
Freon 113
Concen: 3.39 ug/L
RT: 2.195 min Scan# 190
Delta R.T. 0.000 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

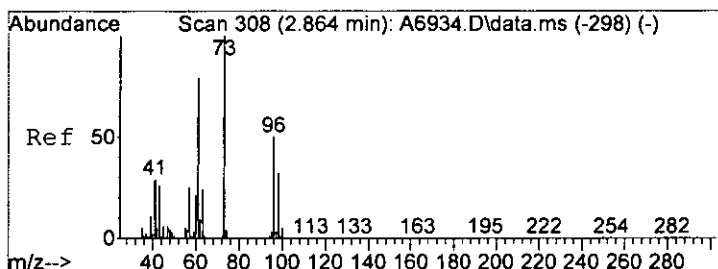
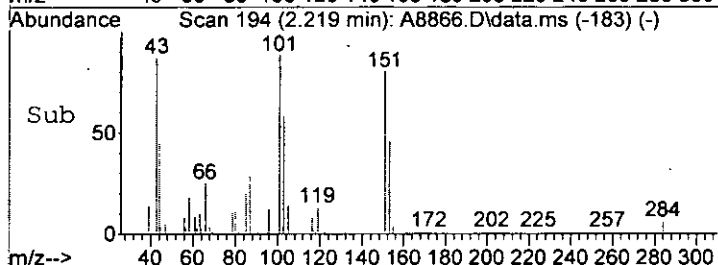
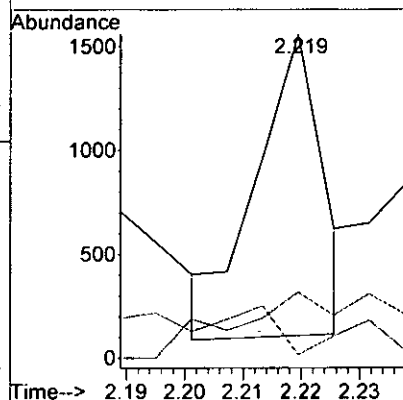
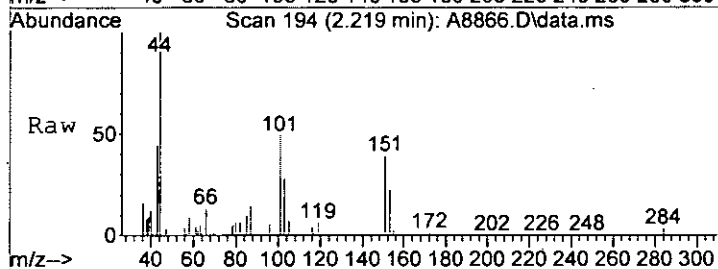
Tgt Ion: 101 Resp: 24580
Ion Ratio Lower Upper
101 100
151 82.5 56.3 96.3





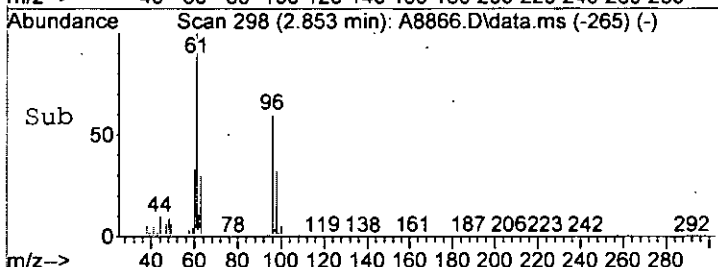
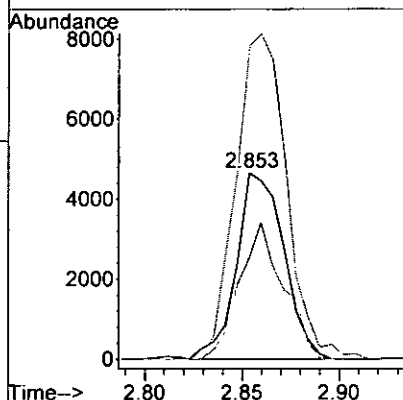
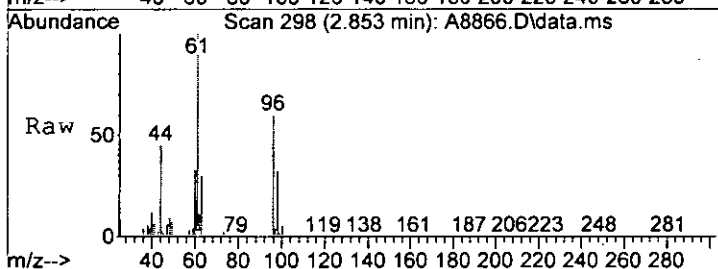
#15
Acetone
Concen: Below Cal
RT: 2.219 min Scan# 194
Delta R.T. -0.006 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

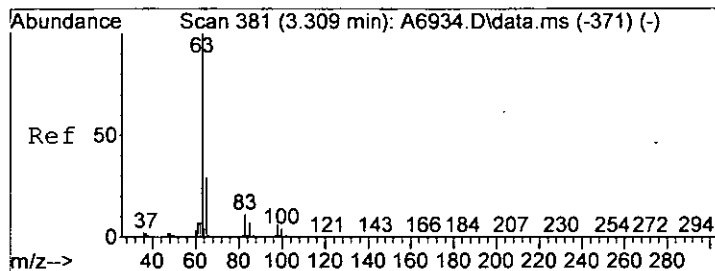
Tgt Ion: 43 Resp: 1152
Ion Ratio Lower Upper
43 100
58 20.4 4.8 44.8
42 1.0 0.0 28.0



#26
trans-1,2-Dichloroethene
Concen: 1.01 ug/L
RT: 2.853 min Scan# 298
Delta R.T. -0.006 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

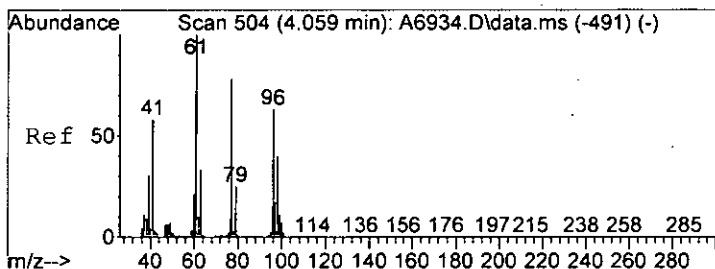
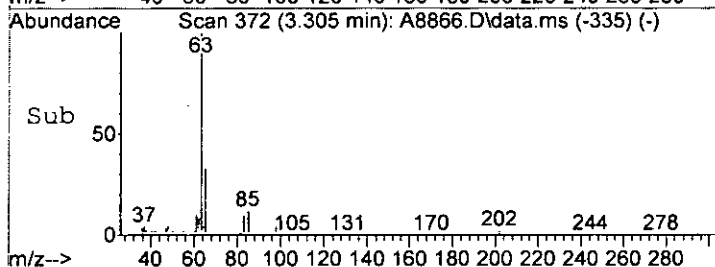
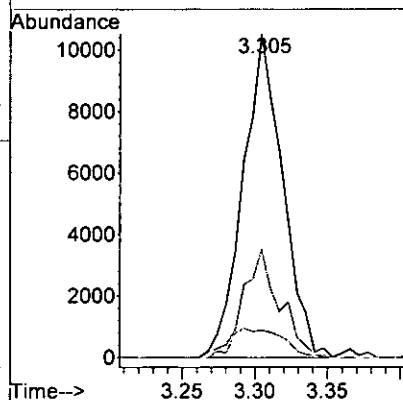
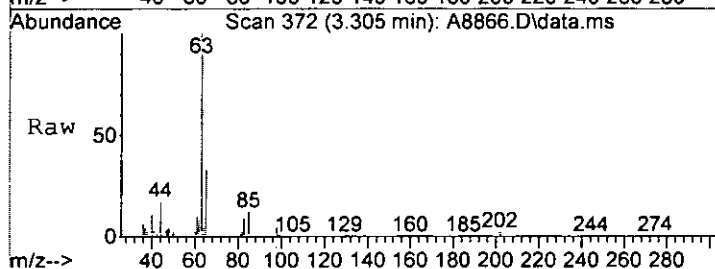
Tgt Ion: 96 Resp: 7869
Ion Ratio Lower Upper
96 100
98 54.4 44.7 84.7
61 167.9 130.9 170.9





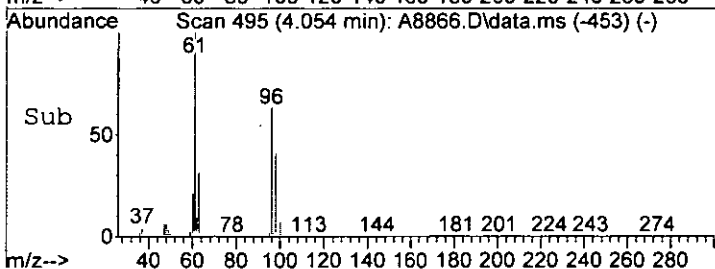
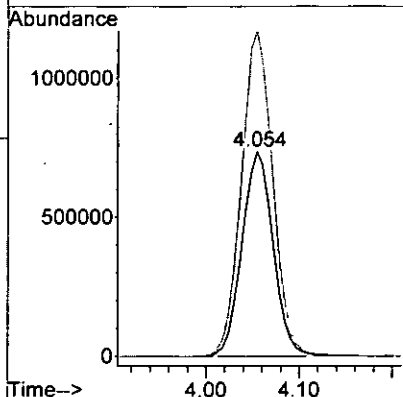
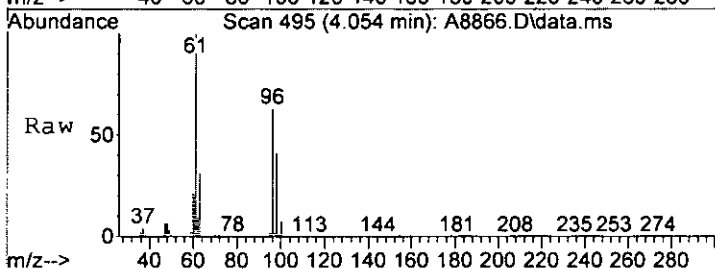
#27
1,1-Dicloroethane
Concen: 1.14 ug/L
RT: 3.305 min Scan# 372
Delta R.T. 0.000 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

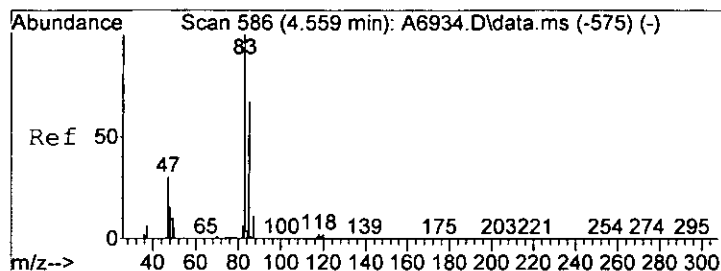
Tgt Ion: 63 Resp: 19943
Ion Ratio Lower Upper
63 100
65 33.3 11.0 51.0
83 8.5 0.0 33.3



#33
cis-1,2-Dichloroethene
Concen: 182.47 ug/L
RT: 4.054 min Scan# 495
Delta R.T. 0.000 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

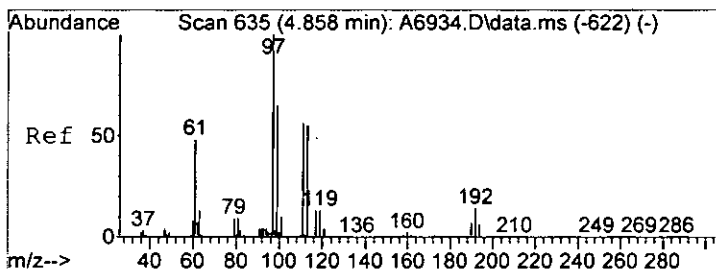
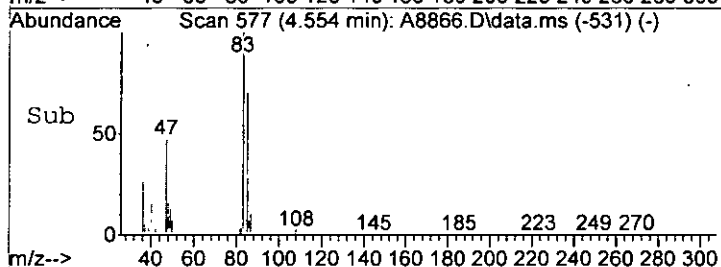
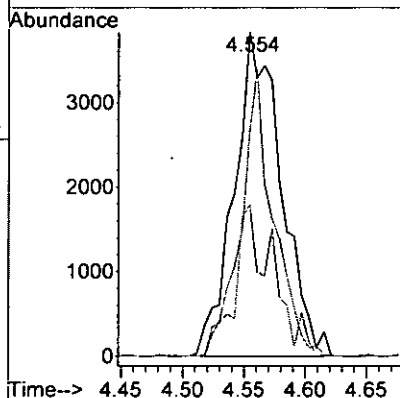
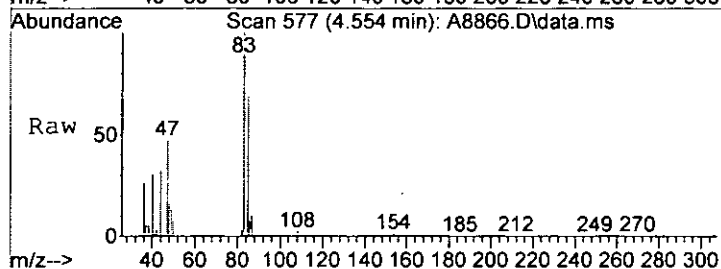
Tgt Ion: 96 Resp: 1706751
Ion Ratio Lower Upper
96 100
61 159.1 138.8 178.8





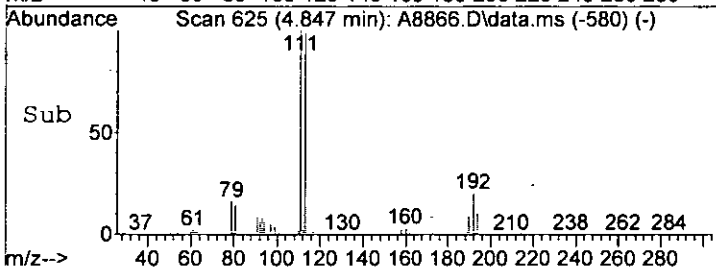
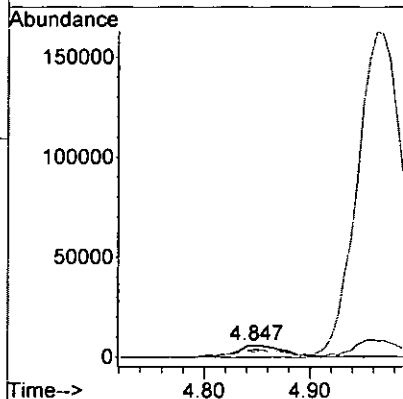
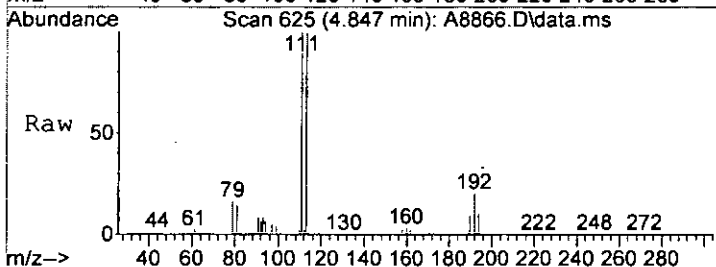
#39
Chloroform
Concen: 0.66 ug/L
RT: 4.554 min Scan# 577
Delta R.T. -0.006 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

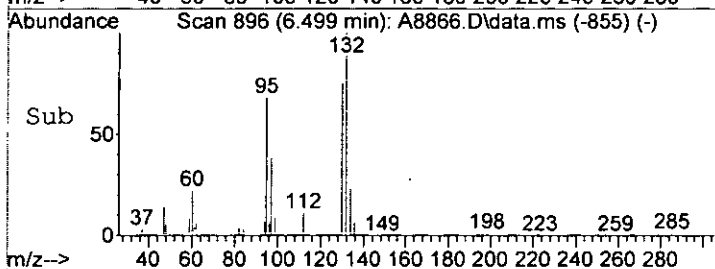
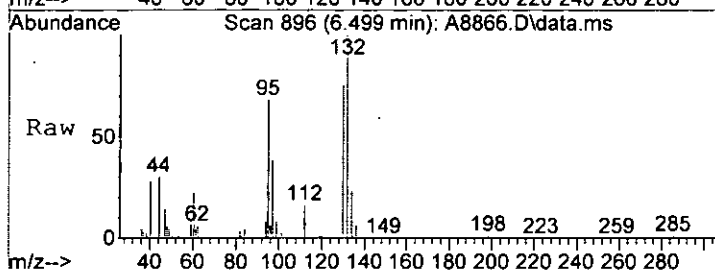
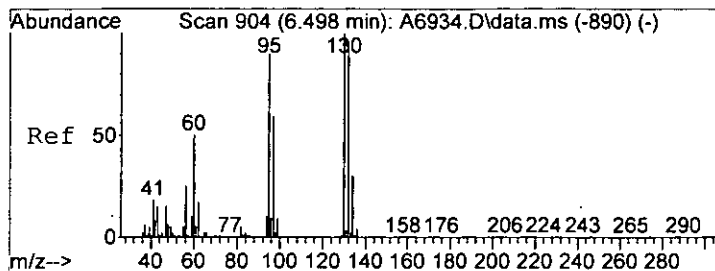
Tgt Ion: 83 Resp: 10261
Ion Ratio Lower Upper
83 100
85 69.5 44.0 84.0
47 46.6 9.9 49.9



#40
1,1,1-Trichloroethane
Concen: 1.29 ug/L
RT: 4.847 min Scan# 625
Delta R.T. -0.006 min
Lab File: A8866.D
Acq: 25 May 2015 4:31 pm

Tgt Ion: 97 Resp: 16997
Ion Ratio Lower Upper
97 100
99 68.1 40.9 80.9
61 41.9 25.2 65.2





#53

Trichloroethene

Concen: 0.53 ug/L

RT: 6.499 min Scan# 896

Delta R.T. 0.000 min

Lab File: A8866.D

Acq: 25 May 2015 4:31 pm

Tgt Ion: 130 Resp: 5310

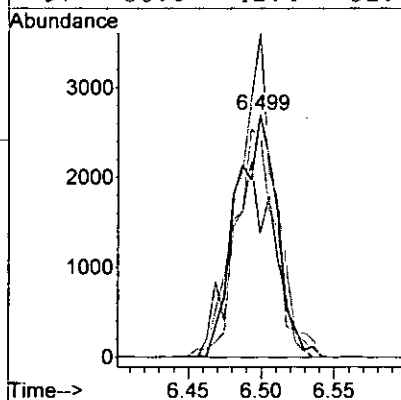
Ion Ratio Lower Upper

130 100

132 133.6 76.6 116.6#

95 90.8 76.5 116.5

97 50.8 42.4 82.4



Blank
pages

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: 5/15/15 1510
 Date Received: 5/20/15
 Date Analyzed: 5/24/15 23:19

Sample Name: TRIP BLANK
 Lab Code: R1503862-012

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8834.D\

Analysis Lot: 446162
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/15/15 1510
Date Received: 5/20/15
Date Analyzed: 5/24/15 23:19

Sample Name: TRIP BLANK
Lab Code: R1503862-012

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8834.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/24/15 23:19	
Toluene-d8	97	87-121	5/24/15 23:19	
Dibromofluoromethane	99	89-119	5/24/15 23:19	

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\

Data File : A8834.D

Acq On : 24 May 2015 11:19 pm

Operator : F.Naegler

Sample : R1503862-012|1.0

Inst : MSVOA10

Misc : CBI 13429 T4

ALS Vial : 30 Sample Multiplier: 1

Quant Time: May 24 23:34:11 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	915962	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1444258	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1342346	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	739585	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4, Dibromomethane	4.829	113	447376	49.64	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	99.28%
46) surr1, 1,2-dichloroetha...	5.414	65	471171	50.87	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	101.74%
64) SURR3, Toluene-d8	8.042	98	1666794	48.51	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	97.02%
69) SURR2, BFB	10.675	95	638531	45.73	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	91.46%
Target Compounds						
15) Acetone	2.232	43	1371	Below Cal		81
16) 2-Propanol	2.323	45	186	0.39 ug/L #		1
19) Acetonitrile	2.445	40	930	2.20 ug/L #		1
~~88) Cyclohexanone~~	~~10.614~~	~~55~~	~~311~~	~~0.72 ug/L #~~		~~58~~
115) Hexachlorobt	13.413	225	1053	0.20 ug/L #		64
117) 1,2,3-Trichlorobenzene	13.650	180	2455	0.23 ug/L		89

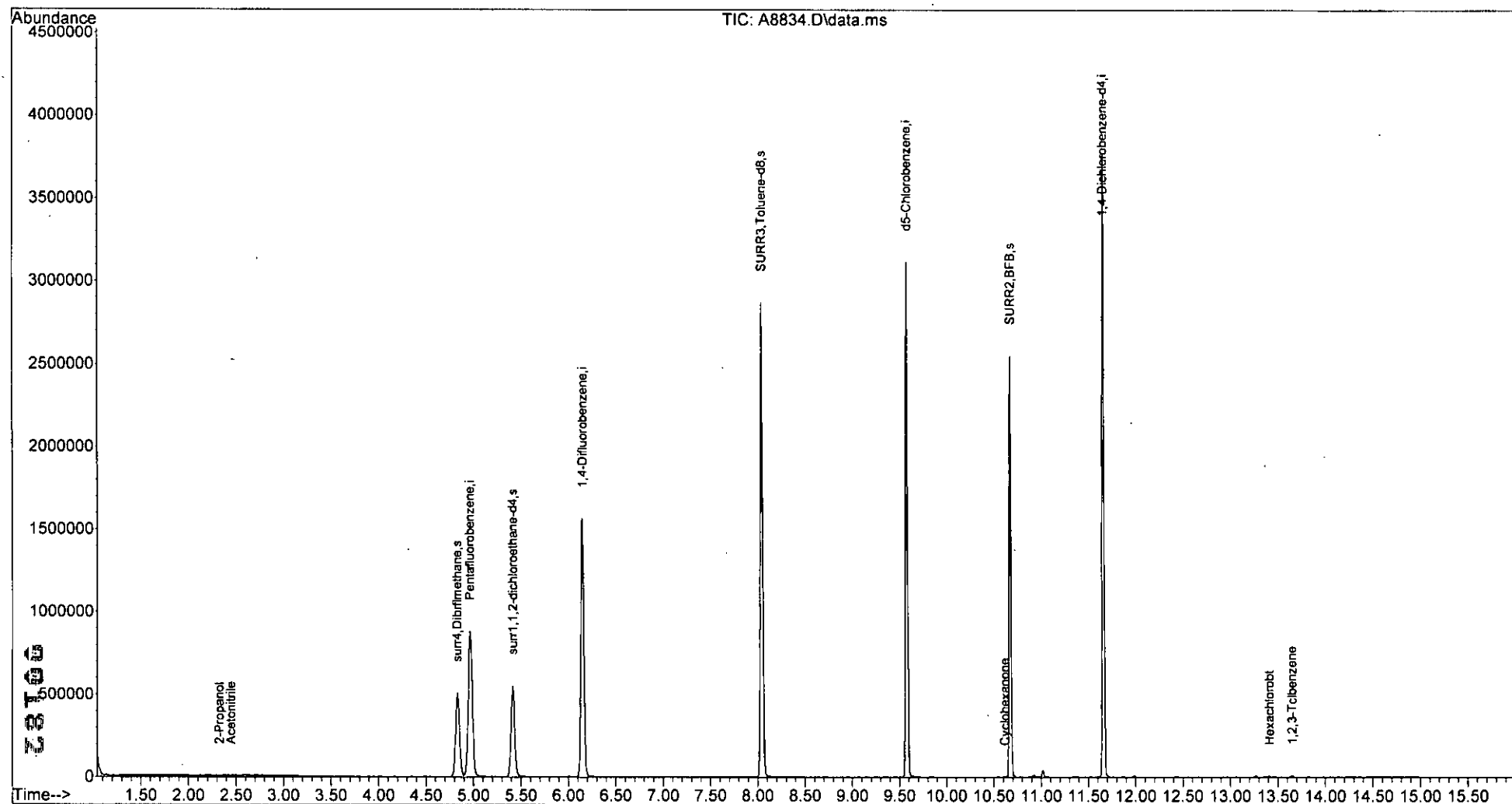
(#)= qualifier out of range (m)= manual integration (+)= signals summed

YR
5/26/15

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\
Data File : A8834.D
Acq On : 24 May 2015 11:19 pm
Operator : F.Naegler
Sample : R1503862-012|1.0
Misc : CBI 13429 T4
ALS Vial : 30 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 23:34:11 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration





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: RC1500051

5/6/15

Instrument ID: R-MS-10

Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
1,1,1,2-Tetrachloroethane	T	Average RF			0.3366	<=20	16.9
1,1,1-Trichloroethane (TCA)	T	Average RF		0.100	0.7004	<=20	9.2
1,1,2,2-Tetrachloroethane	T	Average RF		0.300	0.5106	<=20	10.0
1,1,2-Trichloroethane	T	Average RF		0.100	0.2413	<=20	7.1
1,1,2-Trichlorotrifluoroethane	T	Average RF		0.100	0.3854	<=20	6.2
1,1-Dichloroethane (1,1-DCA)	T	Average RF		0.200	0.9257	<=20	4.3
1,1-Dichloroethene (1,1-DCE)	T	Average RF		0.100	0.3684	<=20	8.3
1,1-Dichloropropene	T	Average RF			0.4042	<=20	8.2
1,2,3-Trichlorobenzene	T	Average RF			0.7069	<=20	7.9
1,2,3-Trichloropropane	T	Average RF			0.1503	<=20	4.5
1,2,4-Trichlorobenzene	T	Average RF		0.200	0.8584	<=20	6.3
1,2,4-Trimethylbenzene	T	Average RF			2.266	<=20	7.4
1,2-Dibromo-3-chloropropane (DBCP)	T	Average RF		0.050	0.09343	<=20	9.5
1,2-Dibromoethane	T	Average RF		0.100	0.2435	<=20	9.9
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123)	T	Average RF			0.5071	<=20	8.3
1,2-Dichlorobenzene	T	Average RF		0.400	1.362	<=20	4.1
1,2-Dichloroethane	T	Average RF		0.100	0.4326	<=20	6.4
1,2-Dichloropropane	T	Average RF		0.100	0.3694	<=20	7.1
1,3,5-Trichlorobenzene	T	Average RF			0.9978	<=20	6.1
1,3,5-Trimethylbenzene	T	Average RF			2.219	<=20	8.3
1,3-Dichlorobenzene	T	Average RF		0.600	1.474	<=20	4.6
1,3-Dichloropropane	T	Average RF			0.4369	<=20	7.3
1,4-Dichlorobenzene	T	Average RF		0.500	1.545	<=20	4.0
1,4-Dioxane	T	Average RF			0.001843	<=20	9.9
1-Butanol	T	Quadratic	1/X2		0.005814	>=0.99	0.9951
1-Chloro-4-(trifluoromethyl)benzene	T	Average RF			0.4816	<=20	14.4
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123)	T	Average RF			0.5610	<=20	10.5
2,2-Dichloropropane	T	Average RF			0.5982	<=20	9.2
2,3,6-Trichlorotoluene	T	Average RF			0.4556	<=20	11.7
2,4,5-Trichlorotoluene	T	Average RF			0.5213	<=20	15.2
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	T	Average RF			1.168	<=20	8.2
2,4-Dichlorobenzotrifluoride	T	Average RF			0.6183	<=20	10.1
2,5-Dichlorobenzotrifluoride	T	Average RF			0.7008	<=20	7.7
2-Butanone (MEK)	T	Average RF		0.05	0.2352	<=20	11.3
2-Chloro-1,3-butadiene	T	Average RF			1.077	<=20	11.4
2-Chlorobenzotrifluoride	T	Average RF			0.5181	<=20	14.9
2-Chloroethyl Vinyl Ether	T	Average RF			0.1728	<=20	12.9
2-Chlorotoluene	T	Average RF			1.863	<=20	6.5
2-Hexanone	T	Average RF		0.05	0.2256	<=20	14.0
2-Methyl-1-propanol	T	Average RF			0.01300	<=20	17.3
2-Methyl-2-propanol	T	Average RF			0.03358	<=20	11.9
2-Nitropropane	T	Average RF			0.04263	<=20	16.0
2-Propanol	T	Average RF			0.02621	<=20	14.0
3,4- and 2,3-Dichlorotoluene Coelution	T	Average RF			1.248	<=20	6.6
3,4-Dichlorobenzotrifluoride	T	Average RF			0.6591	<=20	10.2
3-Chloro-1-propene	T	Average RF			0.2397	<=20	6.5
3-Chlorobenzotrifluoride	T	Average RF			0.5472	<=20	12.0
3-Chlorotoluene	T	Average RF			1.967	<=20	4.4
4-Chlorotoluene	T	Average RF			2.220	<=20	5.6
4-Isopropyltoluene	T	Average RF			2.330	<=20	7.5
4-Methyl-2-pentanone	T	Average RF		0.05	0.3164	<=20	12.9
Acetone	T	Quadratic	1/X	0.05	0.1691	>=0.99	0.9909

Initial Calibration - Summary Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
Acetonitrile	T	Average RF			0.02305	<=20	12.2
Acrolein	T	Average RF			0.07561	<=20	11.1
Acrylonitrile	T	Average RF			0.1616	<=20	8.7
Benzene	T	Average RF		0.500	1.253	<=20	7.3
Bromobenzene	T	Average RF			0.7243	<=20	4.6
Bromochloromethane	T	Average RF			0.3056	<=20	4.4
Bromodichloromethane	T	Average RF		0.200	0.3893	<=20	10.1
Bromoform	T	Average RF		0.100	0.1624	<=20	18.4
Bromomethane	T	Average RF		0.100	0.2864	<=20	7.4
Carbon Disulfide	T	Average RF		0.100	1.323	<=20	10.0
Carbon Tetrachloride	T	Average RF		0.05	0.1235	<=20	13.9
Chlorobenzene	T	Average RF		0.500	0.9831	<=20	6.3
Chloroethane	T	Average RF		0.100	0.3399	<=20	6.4
Chloroform	T	Average RF		0.200	0.8234	<=20	5.6
Chloromethane	T	Average RF		0.100	0.9504	<=20	9.7
Cyclohexane	T	Average RF		0.100	0.4754	<=20	11.5
Cyclohexanone	T	Average RF			0.01611	<=20	16.2
Dibromochloromethane	T	Average RF		0.100	0.2981	<=20	16.9
Dibromomethane	T	Average RF			0.1625	<=20	6.5
Dichlorodifluoromethane (CFC 12)	T	Average RF		0.100	0.5192	<=20	16.1
Dichlorofluoromethane (CFC 21)	T	Average RF			0.8305	<=20	13.8
Dichloromethane	T	Average RF		0.100	0.4520	<=20	6.5
Diethyl Ether	T	Average RF			0.4025	<=20	10.9
Diisopropyl Ether	T	Average RF			2.538	<=20	6.9
Ethyl Methacrylate	T	Average RF			0.2898	<=20	18.6
Ethyl tert-Butyl Ether	T	Average RF			1.733	<=20	9.0
Ethylbenzene	T	Average RF		0.100	0.5157	<=20	11.1
Hexachlorobutadiene	T	Average RF			0.3554	<=20	6.7
Iodomethane	T	Average RF			0.5455	<=20	11.7
Isopropylbenzene (Cumene)	T	Average RF		0.100	1.512	<=20	9.5
Methacrylonitrile	T	Average RF			0.1379	<=20	5.9
Methyl Acetate	T	Average RF		0.100	0.3642	<=20	6.6
Methyl Methacrylate	T	Average RF			0.1455	<=20	13.1
Methyl tert-Butyl Ether	T	Average RF		0.100	1.053	<=20	5.3
Methylcyclohexane	T	Average RF		0.100	0.5121	<=20	13.5
Naphthalene	T	Average RF			1.609	<=20	8.9
Propionitrile	T	Average RF			0.05838	<=20	10.3
Styrene	T	Average RF		0.300	1.042	<=20	13.2
Tetrachloroethene (PCE)	T	Average RF		0.200	0.3005	<=20	7.9
Tetrahydrofuran (THF)	T	Average RF			0.1454	<=20	9.8
Toluene	T	Average RF		0.400	1.353	<=20	5.2
Trichloroethene (TCE)	T	Average RF		0.200	0.3463	<=20	8.4
Trichlorofluoromethane (CFC 11)	T	Average RF		0.100	0.6683	<=20	4.7
Vinyl Acetate	T	Average RF			0.07465	<=20	19.8
Vinyl Chloride	T	Average RF		0.100	0.6923	<=20	7.4
cis-1,2-Dichloroethene	T	Average RF		0.100	0.4970	<=20	6.1
cis-1,3-Dichloropropene	T	Average RF		0.200	0.4412	<=20	15.1
m,p-Xylenes	T	Average RF		0.100	0.6204	<=20	9.1
n-Butyl Acetate	T	Average RF			0.5418	<=20	19.9
n-Butylbenzene	T	Average RF			2.058	<=20	7.4
n-Heptane	T	Average RF			0.5448	<=20	9.0
n-Propylbenzene	T	Average RF			2.971	<=20	7.3

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Initial Calibration - Summary Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Column Name: 1

Analyte	Type	Curve Fit	Weighting	Min RF	Mean RF	Criteria	Result
o-Xylene	T	Average RF		0.300	0.6155	≤20	10.7
sec-Butylbenzene	T	Average RF			2.615	≤20	7.9
tert-Amyl Methyl Ether	T	Average RF			0.7222	≤20	13.8
tert-Butylbenzene	T	Average RF			1.926	≤20	7.2
trans-1,2-Dichloroethene	T	Average RF		0.100	0.4146	≤20	5.3
trans-1,3-Dichloropropene	T	Average RF		0.100	0.3677	≤20	17.3
trans-1,4-Dichloro-2-butene	T	Average RF			0.1091	≤20	13.1
1,2-Dichloroethane-d4	S	Average RF			0.3206	≤20	3.8
4-Bromofluorobenzene	S	Average RF			0.4834	≤20	4.8
Dibromofluoromethane	S	Average RF			0.3120	≤20	4.6
Toluene-d8	S	Average RF			1.190	≤20	3.8

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

#	Lab Code	Sample Name	File Location	Acquisition Date
01	RC1500051-01	0.5 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8252.D	5/6/15 16:31
02	RC1500051-02	1.0 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8253.D	5/6/15 17:01
03	RC1500051-03	2.0 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8254.D	5/6/15 17:31
04	RC1500051-04	5.0 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8255.D	5/6/15 18:01
05	RC1500051-05	20 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8256.D	5/6/15 18:31
06	RC1500051-06	50 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8257.D	5/6/15 19:00
07	RC1500051-07	100 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8258.D	5/6/15 19:30
08	RC1500051-08	150 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8259.D	5/6/15 20:01
09	RC1500051-09	200 PPB STD	I:\ACQU\DATA\msvoa10\data\050615\A8260.D	5/6/15 20:31

Analyte			Curve Fit			Weighting		
1,1,1,2-Tetrachloroethane			Average RF			RSD = 16.9		
						Average RF = 0.3366		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2643	02	1.000	0.2981	03	2.000	0.3086
05	20.000	0.3021	06	50.000	0.3423	07	100.000	0.3838
09	200.000	0.4359	08	150.000	0.3962			
1,1,1-Trichloroethane (TCA)			Average RF			RSD = 9.2		
						Average RF = 0.7004		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6459	02	1.000	0.6542	03	2.000	0.6644
05	20.000	0.6442	06	50.000	0.6953	07	100.000	0.7489
09	200.000	0.8231	08	150.000	0.7674			
1,1,2,2-Tetrachloroethane			Average RF			RSD = 10.0		
						Average RF = 0.5106		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4084	02	1.000	0.4653	03	2.000	0.4981
05	20.000	0.5135	06	50.000	0.5205	07	100.000	0.5486
09	200.000	0.5844	08	150.000	0.5471			
1,1,2-Trichloroethane			Average RF			RSD = 7.1		
						Average RF = 0.2413		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2170	02	1.000	0.2269	03	2.000	0.2349
05	20.000	0.2310	06	50.000	0.2348	07	100.000	0.2504
09	200.000	0.2729	08	150.000	0.2565			
1,1,2-Trichlorotrifluoroethane			Average RF			RSD = 6.2		
						Average RF = 0.3854		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3567	02	1.000	0.3693	03	2.000	0.4011
05	20.000	0.3624	06	50.000	0.3742	07	100.000	0.3916
09	200.000	0.4316	08	150.000	0.4052			
1,1-Dichloroethane (1,1-DCA)			Average RF			RSD = 4.3		
						Average RF = 0.9257		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8894	02	1.000	0.9332	03	2.000	0.9185
05	20.000	0.8728	06	50.000	0.9254	07	100.000	0.9709
09	200.000	0.9988	08	150.000	0.9316			
1,1-Dichloroethene (1,1-DCE)			Average RF			RSD = 8.3		
						Average RF = 0.3684		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3518	02	1.000	0.3195	03	2.000	0.3664
05	20.000	0.3506	06	50.000	0.3594	07	100.000	0.3794
09	200.000	0.4266	08	150.000	0.3977			

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte	Curve Fit			Weighting		
1,1-Dichloropropene	Average RF			RSD = 8.2		
	Average RF = 0.4042					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3667	02 1.000 0.3906	03 2.000 0.3913	04 5.000 0.3999	05 20.000 0.3657	06 50.000 0.3964	07 100.000 0.4224
09 200.000 0.4691						
1,2,3-Trichlorobenzene	Average RF			RSD = 7.9		
	Average RF = 0.7069					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.6185	02 1.000 0.6318	03 2.000 0.7321	04 5.000 0.7089	05 20.000 0.6684	06 50.000 0.7316	07 100.000 0.7737
09 200.000 0.7648						
1,2,3-Trichloropropane	Average RF			RSD = 4.5		
	Average RF = 0.1503					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.1608	02 1.000 0.1466	03 2.000 0.1544	04 5.000 0.1552	05 20.000 0.1433	06 50.000 0.1404	07 100.000 0.1474
09 200.000 0.1567						
1,2,4-Trichlorobenzene	Average RF			RSD = 6.3		
	Average RF = 0.8584					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.7664	02 1.000 0.8728	03 2.000 0.8140	04 5.000 0.8311	05 20.000 0.8189	06 50.000 0.8845	07 100.000 0.9238
09 200.000 0.9254						
1,2,4-Trimethylbenzene	Average RF			RSD = 7.4		
	Average RF = 2.266					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.910	02 1.000 2.167	03 2.000 2.222	04 5.000 2.348	05 20.000 2.259	06 50.000 2.418	07 100.000 2.483
09 200.000 2.236						
1,2-Dibromo-3-chloropropane (DBCP)	Average RF			RSD = 9.5		
	Average RF = 0.09343					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.08199	02 1.000 0.1011	03 2.000 0.09101	04 5.000 0.08448	05 20.000 0.08620	06 50.000 0.08870	07 100.000 0.1007
09 200.000 0.1069						
1,2-Dibromoethane	Average RF			RSD = 9.9		
	Average RF = 0.2435					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2147	02 1.000 0.2149	03 2.000 0.2362	04 5.000 0.2313	05 20.000 0.2358	06 50.000 0.2416	07 100.000 0.2666
09 200.000 0.2854						
1,2-Dichloro-1,1,2-trifluoroethane (CFC)	Average RF			RSD = 8.3		
	Average RF = 0.5071					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4309	02 1.000 0.5179	03 2.000 0.4794	04 5.000 0.5050	05 20.000 0.4666	06 50.000 0.5228	07 100.000 0.5363
09 200.000 0.5368						
1,2-Dichlorobenzene	Average RF			RSD = 4.1		
	Average RF = 1.362					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.269	02 1.000 1.299	03 2.000 1.386	04 5.000 1.361	05 20.000 1.322	06 50.000 1.369	07 100.000 1.438
09 200.000 1.422						

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte			Curve Fit			Weighting		
1,2-Dichloroethane			Average RF			RSD = 6.4		
						Average RF = 0.4326		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3934	02	1.000	0.4049	03	2.000	0.4369
05	20.000	0.4068	06	50.000	0.4321	07	100.000	0.4521
09	200.000	0.4804				08	150.000	0.4525
1,2-Dichloroethane-d4			Average RF			RSD = 3.8		
						Average RF = 0.3206		
#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3101	04	60.000	0.3205	05	70.000	0.3126
08	125.000	0.3225	09	150.000	0.3434	07	100.000	0.3147
1,2-Dichloropropane			Average RF			RSD = 7.1		
						Average RF = 0.3694		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3484	02	1.000	0.3665	03	2.000	0.3655
05	20.000	0.3415	06	50.000	0.3568	07	100.000	0.3815
09	200.000	0.4244				04	5.000	0.3492
1,3,5-Trichlorobenzene			Average RF			RSD = 6.1		
						Average RF = 0.9978		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9694	02	1.000	0.9435	03	2.000	0.9572
05	20.000	0.9179	06	50.000	1.039	07	100.000	1.027
09	200.000	1.119				04	5.000	0.9827
1,3,5-Trimethylbenzene			Average RF			RSD = 8.3		
						Average RF = 2.219		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.859	02	1.000	2.043	03	2.000	2.211
05	20.000	2.178	06	50.000	2.384	07	100.000	2.473
09	200.000	2.222				04	5.000	2.263
1,3-Dichlorobenzene			Average RF			RSD = 4.6		
						Average RF = 1.474		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.519	02	1.000	1.381	03	2.000	1.383
05	20.000	1.405	06	50.000	1.486	07	100.000	1.545
09	200.000	1.556				04	5.000	1.481
1,3-Dichloropropane			Average RF			RSD = 7.3		
						Average RF = 0.4369		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4169	02	1.000	0.4056	03	2.000	0.4430
05	20.000	0.4076	06	50.000	0.4274	07	100.000	0.4662
09	200.000	0.4922				04	5.000	0.4064
1,4-Dichlorobenzene			Average RF			RSD = 4.0		
						Average RF = 1.545		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.571	02	1.000	1.446	03	2.000	1.628
05	20.000	1.459	06	50.000	1.520	07	100.000	1.602
09	200.000	1.579				04	5.000	1.539
1,4-Dioxane			Average RF			RSD = 9.9		
						Average RF = 0.001843		
#	Amount	RF	#	Amount	RF	#	Amount	RF
02	20.000	0.001640	03	40.000	0.001888	04	100.000	0.001717
06	1000.000	0.001677	07	2000.000	0.002050	08	3000.000	0.002000
						05	400.000	0.001696
						09	4000.000	0.002078
1-Butanol			Quadratic			COD = 0.9951		
			1/X2			Y = 1.783E-5 X ² + 0.004874 X + -0.001061		
#	Amount	RF	#	Amount	RF	#	Amount	RF
02	50.000	0.003746	03	100.000	0.004733	04	250.000	0.004339
06	2500.000	0.005876	07	5000.000	0.007252	08	7500.000	0.007694
						05	1000.000	0.004843
						09	10000.000	0.008028

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte	Curve Fit			Weighting								
1-Chloro-4-(trifluoromethyl)benzene	Average RF			RSD = 14.4			Average RF = 0.4816					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.3854	02	1.000	0.4227	03	2.000	0.4888	04	5.000	0.4516	
05	20.000	0.4287	06	50.000	0.4922	07	100.000	0.5137	08	150.000	0.5355	
09	200.000	0.6160										
2,2-Dichloro-1,1,1-trifluoroethane (CFC	Average RF			RSD = 10.5			Average RF = 0.5610					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.4886	02	1.000	0.5085	03	2.000	0.5506	04	5.000	0.5524	
05	20.000	0.5129	06	50.000	0.5581	07	100.000	0.5785	08	150.000	0.6261	
09	200.000	0.6734										
2,2-Dichloropropane	Average RF			RSD = 9.2			Average RF = 0.5982					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.5006	02	1.000	0.5922	03	2.000	0.5930	04	5.000	0.5855	
05	20.000	0.5477	06	50.000	0.5915	07	100.000	0.6363	08	150.000	0.6503	
09	200.000	0.6864										
2,3,6-Trichlorotoluene	Average RF			RSD = 11.7			Average RF = 0.4556					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.3904	02	1.000	0.3872	03	2.000	0.4599	04	5.000	0.4231	
05	20.000	0.4204	06	50.000	0.4810	07	100.000	0.5000	08	150.000	0.4980	
09	200.000	0.5403										
2,4,5-Trichlorotoluene	Average RF			RSD = 15.2			Average RF = 0.5213					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.3882	02	1.000	0.4801	03	2.000	0.4746	04	5.000	0.4811	
05	20.000	0.4785	06	50.000	0.5777	07	100.000	0.5893	08	150.000	0.5859	
09	200.000	0.6364										
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut	Average RF			RSD = 8.2			Average RF = 1.168					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	1.500	0.9878	02	3.000	1.081	03	6.000	1.143	04	15.000	1.182	
05	60.000	1.146	06	150.000	1.300	07	300.000	1.276	08	450.000	1.214	
09	600.000	1.183										
2,4-Dichlorobenzotrifluoride	Average RF			RSD = 10.1			Average RF = 0.6183					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.5580	02	1.000	0.6406	03	2.000	0.5801	04	5.000	0.5901	
05	20.000	0.5374	06	50.000	0.6311	07	100.000	0.6300	08	150.000	0.6470	
09	200.000	0.7503										
2,5-Dichlorobenzotrifluoride	Average RF			RSD = 7.7			Average RF = 0.7008					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.6825	02	1.000	0.6937	03	2.000	0.6919	04	5.000	0.6481	
05	20.000	0.6183	06	50.000	0.7111	07	100.000	0.7204	08	150.000	0.7341	
09	200.000	0.8075										
2-Butanone (MEK)	Average RF			RSD = 11.3			Average RF = 0.2352					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.2851	02	1.000	0.1935	03	2.000	0.2441	04	5.000	0.2270	
05	20.000	0.2091	06	50.000	0.2272	07	100.000	0.2345	08	150.000	0.2397	
09	200.000	0.2570										

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Analyte			Curve Fit			Weighting		
2-Chloro-1,3-butadiene			Average RF			RSD = 11.4		
						Average RF = 1.077		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.046	02	1.000	0.9692	03	2.000	1.062
05	20.000	0.8418	06	50.000	1.113	07	100.000	1.119
09	200.000	1.269				08	150.000	1.186
2-Chlorobenzotrifluoride			Average RF			RSD = 14.9		
						Average RF = 0.5181		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4248	02	1.000	0.4540	03	2.000	0.4807
05	20.000	0.4589	06	50.000	0.5440	07	100.000	0.5531
09	200.000	0.6694				08	150.000	0.5865
2-Chloroethyl Vinyl Ether			Average RF			RSD = 12.9		
						Average RF = 0.1728		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1615	02	1.000	0.1586	03	2.000	0.1580
05	20.000	0.1416	06	50.000	0.1755	07	100.000	0.1848
09	200.000	0.2125				08	150.000	0.1979
2-Chlorotoluene			Average RF			RSD = 6.5		
						Average RF = 1.863		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.599	02	1.000	1.766	03	2.000	1.910
05	20.000	1.806	06	50.000	1.904	07	100.000	1.980
09	200.000	1.949				08	150.000	1.959
2-Hexanone			Average RF			RSD = 14.0		
						Average RF = 0.2256		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2157	02	1.000	0.1849	03	2.000	0.2185
05	20.000	0.1942	06	50.000	0.2274	07	100.000	0.2525
09	200.000	0.2775				08	150.000	0.2593
2-Methyl-1-propanol			Average RF			RSD = 17.3		
						Average RF = 0.01300		
#	Amount	RF	#	Amount	RF	#	Amount	RF
03	40.000	0.01126	04	100.000	0.01091	05	400.000	0.01095
07	2000.000	0.01465	08	3000.000	0.01515	09	4000.000	0.01617
06	1000.000	0.01188						
2-Methyl-2-propanol			Average RF			RSD = 11.9		
						Average RF = 0.03358		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.02798	02	20.000	0.02881	03	40.000	0.03507
05	400.000	0.03146	06	1000.000	0.03235	07	2000.000	0.03766
09	4000.000	0.03893				08	3000.000	0.03788
2-Nitropropane			Average RF			RSD = 16.0		
						Average RF = 0.04263		
#	Amount	RF	#	Amount	RF	#	Amount	RF
03	4.000	0.03671	04	10.000	0.03876	05	40.000	0.03745
07	200.000	0.04924	08	300.000	0.05308	06	100.000	0.04055
2-Propanol			Average RF			RSD = 14.0		
						Average RF = 0.02621		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.02346	02	20.000	0.02420	03	40.000	0.02192
05	400.000	0.02368	06	1000.000	0.02709	07	2000.000	0.03037
09	4000.000	0.03115				08	3000.000	0.03069

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Signal ID: 1

Analyte	Curve Fit			Weighting		
3,4- and 2,3-Dichlorotoluene Coelution	Average RF			RSD = 6.6		
				Average RF = 1.248		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 1.000 1.134	02 2.000 1.178	03 4.000 1.223	04 10.000 1.274	05 20.000 1.233	06 100.000 1.395	07 200.000 1.351
08 300.000 1.249	09 400.000 1.194					
3,4-Dichlorobenzotrifluoride	Average RF			RSD = 10.2		
				Average RF = 0.6591		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.5820	02 1.000 0.6446	03 2.000 0.6063	04 5.000 0.6241	05 20.000 0.5932	06 50.000 0.6895	07 100.000 0.6947
08 150.000 0.7059	09 200.000 0.7916					
3-Chloro-1-propene	Average RF			RSD = 6.5		
				Average RF = 0.2397		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2321	02 1.000 0.2390	03 2.000 0.2200	04 5.000 0.2334	05 20.000 0.2183	06 50.000 0.2436	07 100.000 0.2570
08 150.000 0.2490	09 200.000 0.2647					
3-Chlorobenzotrifluoride	Average RF			RSD = 12.0		
				Average RF = 0.5472		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4541	02 1.000 0.5360	03 2.000 0.5465	04 5.000 0.5105	05 20.000 0.4841	06 50.000 0.5494	07 100.000 0.5703
08 150.000 0.5958	09 200.000 0.6785					
3-Chlorotoluene	Average RF			RSD = 4.4		
				Average RF = 1.967		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.842	02 1.000 1.890	03 2.000 1.944	04 5.000 2.019	05 20.000 1.859	06 50.000 2.080	07 100.000 2.033
08 150.000 1.999	09 200.000 2.034					
4-Bromofluorobenzene	Average RF			RSD = 4.8		
				Average RF = 0.4834		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
06 50.000 0.4799	07 100.000 0.4687	08 150.000 0.4858	09 200.000 0.5278	01 0.500 0.4799	02 1.000 0.4761	03 2.000 0.4624
4-Chlorotoluene	Average RF			RSD = 5.6		
				Average RF = 2.220		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 2.119	02 1.000 1.980	03 2.000 2.299	04 5.000 2.229	05 20.000 2.149	06 50.000 2.321	07 100.000 2.393
08 150.000 2.296	09 200.000 2.196					
4-Isopropyltoluene	Average RF			RSD = 7.5		
				Average RF = 2.330		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 2.048	02 1.000 2.143	03 2.000 2.316	04 5.000 2.375	05 20.000 2.294	06 50.000 2.517	07 100.000 2.610
08 150.000 2.422	09 200.000 2.243					
4-Methyl-2-pentanone	Average RF			RSD = 12.9		
				Average RF = 0.3164		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2719	02 1.000 0.2821	03 2.000 0.2989	04 5.000 0.3076	05 20.000 0.2728	06 50.000 0.3218	07 100.000 0.3438
08 150.000 0.3613	09 200.000 0.3872					

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Analyte			Curve Fit			Weighting								
Acetone			Quadratic			1/X			COD = 0.9909			Y = 0.003673 X ² + 0.1296 X + 0.01361		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
04	5.000	0.2936	05	20.000	0.1346	06	50.000	0.1404	07	100.000	0.1495			
08	150.000	0.1548	09	200.000	0.1414									
Acetonitrile			Average RF			RSD = 12.2			Average RF = 0.02305					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	5.000	0.01960	03	10.000	0.02465	04	25.000	0.01901	05	100.000	0.02219			
06	250.000	0.02267	07	500.000	0.02403	08	750.000	0.02474	09	1000.000	0.02748			
Acrolein			Average RF			RSD = 11.1			Average RF = 0.07561					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.06107	02	5.000	0.07881	03	10.000	0.07112	04	25.000	0.07339			
05	100.000	0.06738	06	250.000	0.07659	07	500.000	0.07967	08	750.000	0.08451			
09	1000.000	0.08794												
Acrylonitrile			Average RF			RSD = 8.7			Average RF = 0.1616					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.1452	02	5.000	0.1392	03	10.000	0.1608	04	25.000	0.1525			
05	100.000	0.1643	06	250.000	0.1627	07	500.000	0.1750	08	750.000	0.1734			
09	1000.000	0.1818												
Benzene			Average RF			RSD = 7.3			Average RF = 1.253					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.284	02	1.000	1.102	03	2.000	1.278	04	5.000	1.214			
05	20.000	1.154	06	50.000	1.217	07	100.000	1.300	08	150.000	1.327			
09	200.000	1.402												
Bromobenzene			Average RF			RSD = 4.6			Average RF = 0.7243					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7305	02	1.000	0.6936	03	2.000	0.7277	04	5.000	0.7174			
05	20.000	0.6838	06	50.000	0.6996	07	100.000	0.7305	08	150.000	0.7390			
09	200.000	0.7962												
Bromochloromethane			Average RF			RSD = 4.4			Average RF = 0.3056					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2899	02	1.000	0.3305	03	2.000	0.3021	04	5.000	0.2945			
05	20.000	0.2894	06	50.000	0.3062	07	100.000	0.3112	08	150.000	0.3095			
09	200.000	0.3169												
Bromodichloromethane			Average RF			RSD = 10.1			Average RF = 0.3893					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3543	02	1.000	0.3592	03	2.000	0.3743	04	5.000	0.3619			
05	20.000	0.3561	06	50.000	0.3855	07	100.000	0.4172	08	150.000	0.4313			
09	200.000	0.4634												
Bromoform			Average RF			RSD = 18.4			Average RF = 0.1624					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.1234	03	2.000	0.1483	04	5.000	0.1418	05	20.000	0.1495			
06	50.000	0.1723	07	100.000	0.1979	08	150.000	0.2034						
Bromomethane			Average RF			RSD = 7.4			Average RF = 0.2864					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3189	02	1.000	0.2766	03	2.000	0.2912	04	5.000	0.2641			
05	20.000	0.2578	06	50.000	0.2713	07	100.000	0.2851	08	150.000	0.3001			
09	200.000	0.3126												

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Analyte			Curve Fit			Weighting		
Carbon Disulfide			Average RF			RSD = 10.0		
						Average RF = 1.323		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.332	02	1.000	1.366	03	2.000	1.347
05	20.000	1.016	06	50.000	1.304	07	100.000	1.304
09	200.000	1.501				08	150.000	1.429
Carbon Tetrachloride			Average RF			RSD = 13.9		
						Average RF = 0.1235		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1218	02	1.000	0.1121	03	2.000	0.1055
05	20.000	0.1062	06	50.000	0.1230	07	100.000	0.1346
09	200.000	0.1559				08	150.000	0.1406
Chlorobenzene			Average RF			RSD = 6.3		
						Average RF = 0.9831		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9365	02	1.000	0.9043	03	2.000	0.9523
05	20.000	0.9240	06	50.000	0.9846	07	100.000	1.055
09	200.000	1.076				08	150.000	1.045
Chloroethane			Average RF			RSD = 6.4		
						Average RF = 0.3399		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3471	02	1.000	0.3602	03	2.000	0.3216
05	20.000	0.3137	06	50.000	0.3282	07	100.000	0.3431
09	200.000	0.3731				08	150.000	0.3582
Chloroform			Average RF			RSD = 5.6		
						Average RF = 0.8234		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7967	02	1.000	0.7722	03	2.000	0.8062
05	20.000	0.7776	06	50.000	0.8146	07	100.000	0.8510
09	200.000	0.9147				08	150.000	0.8653
Chloromethane			Average RF			RSD = 9.7		
						Average RF = 0.9504		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8764	02	1.000	0.8872	03	2.000	0.8927
05	20.000	0.9139	06	50.000	0.9604	07	100.000	1.011
09	200.000	1.119				08	150.000	1.050
Cyclohexane			Average RF			RSD = 11.5		
						Average RF = 0.4754		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4368	02	1.000	0.4546	03	2.000	0.4542
05	20.000	0.4078	06	50.000	0.4757	07	100.000	0.5040
09	200.000	0.5794				08	150.000	0.5332
Cyclohexanone			Average RF			RSD = 16.2		
						Average RF = 0.01611		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	10.000	0.01299	02	20.000	0.01336	03	40.000	0.01609
05	400.000	0.01408	06	1000.000	0.01521	07	2000.000	0.01883
09	4000.000	0.01997				08	3000.000	0.01914
Dibromochloromethane			Average RF			RSD = 16.9		
						Average RF = 0.2981		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2264	02	1.000	0.2577	03	2.000	0.2689
05	20.000	0.2771	06	50.000	0.3075	07	100.000	0.3426
09	200.000	0.3786				08	150.000	0.3522

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Analyte			Curve Fit			Weighting		
Dibromofluoromethane			Average RF			RSD = 4.6		
						Average RF = 0.3120		
#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	0.3023	04	60.000	0.3065	05	70.000	0.3034
08	125.000	0.3142	09	150.000	0.3398	07	100.000	0.3060
Dibromomethane			Average RF			RSD = 6.5		
						Average RF = 0.1625		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1443	02	1.000	0.1666	03	2.000	0.1614
05	20.000	0.1525	06	50.000	0.1558	07	100.000	0.1650
09	200.000	0.1811	08	150.000	0.1679	04	5.000	0.1679
Dichlorodifluoromethane (CFC 12)			Average RF			RSD = 16.1		
						Average RF = 0.5192		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3968	02	1.000	0.4846	03	2.000	0.4141
05	20.000	0.5573	06	50.000	0.5648	07	100.000	0.5838
09	200.000	0.6280	08	150.000	0.5901	04	5.000	0.4532
Dichlorofluoromethane (CFC 21)			Average RF			RSD = 13.8		
						Average RF = 0.8305		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7651	02	1.000	0.7221	03	2.000	0.6972
05	20.000	0.7842	06	50.000	0.8781	07	100.000	0.9038
09	200.000	1.018	08	150.000	0.9662	04	5.000	0.7400
Dichloromethane			Average RF			RSD = 6.5		
						Average RF = 0.4520		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5134	02	1.000	0.4512	03	2.000	0.4616
05	20.000	0.4277	06	50.000	0.4280	07	100.000	0.4380
09	200.000	0.4766	08	150.000	0.4505	04	5.000	0.4205
Diethyl Ether			Average RF			RSD = 10.9		
						Average RF = 0.4025		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3062	02	1.000	0.3605	03	2.000	0.4257
05	20.000	0.3986	06	50.000	0.4146	07	100.000	0.4266
09	200.000	0.4481	08	150.000	0.4344	04	5.000	0.4081
Diisopropyl Ether			Average RF			RSD = 6.9		
						Average RF = 2.538		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.207	02	1.000	2.329	03	2.000	2.492
05	20.000	2.620	06	50.000	2.668	07	100.000	2.684
09	200.000	2.644	08	150.000	2.714	04	5.000	2.481
Ethyl Methacrylate			Average RF			RSD = 18.6		
						Average RF = 0.2898		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2180	02	1.000	0.2409	03	2.000	0.2617
05	20.000	0.2695	06	50.000	0.2989	07	100.000	0.3412
09	200.000	0.3744	08	150.000	0.3478	04	5.000	0.2557
Ethyl tert-Butyl Ether			Average RF			RSD = 9.0		
						Average RF = 1.733		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.478	02	1.000	1.544	03	2.000	1.691
05	20.000	1.748	06	50.000	1.772	07	100.000	1.834
09	200.000	1.936	08	150.000	1.917	04	5.000	1.679

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Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte			Curve Fit			Weighting		
Ethylbenzene			Average RF			RSD = 11.1		
						Average RF = 0.5157		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4604	02	1.000	0.4615	03	2.000	0.4914
05	20.000	0.4683	06	50.000	0.5130	07	100.000	0.5596
09	200.000	0.6217				08	150.000	0.5744
Hexachlorobutadiene			Average RF			RSD = 6.7		
						Average RF = 0.3554		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3808	02	1.000	0.3585	03	2.000	0.3195
05	20.000	0.3201	06	50.000	0.3532	07	100.000	0.3653
09	200.000	0.3895				08	150.000	0.3589
Iodomethane			Average RF			RSD = 11.7		
						Average RF = 0.5455		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6079	02	1.000	0.5012	03	2.000	0.5133
05	20.000	0.4574	06	50.000	0.5740	07	100.000	0.5743
09	200.000	0.6179				08	150.000	0.6049
Isopropylbenzene (Cumene)			Average RF			RSD = 9.5		
						Average RF = 1.512		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.225	02	1.000	1.392	03	2.000	1.487
05	20.000	1.476	06	50.000	1.630	07	100.000	1.703
09	200.000	1.549				08	150.000	1.638
Methacrylonitrile			Average RF			RSD = 5.9		
						Average RF = 0.1379		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1315	02	1.000	0.1332	03	2.000	0.1397
05	20.000	0.1289	06	50.000	0.1354	07	100.000	0.1437
09	200.000	0.1533				08	150.000	0.1453
Methyl Acetate			Average RF			RSD = 6.6		
						Average RF = 0.3642		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3622	02	1.000	0.3742	03	2.000	0.3543
05	20.000	0.3255	06	50.000	0.3504	07	100.000	0.3794
09	200.000	0.4013				08	150.000	0.3885
Methyl Methacrylate			Average RF			RSD = 13.1		
						Average RF = 0.1455		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1243	02	1.000	0.1202	03	2.000	0.1414
05	20.000	0.1333	06	50.000	0.1480	07	100.000	0.1611
09	200.000	0.1765				08	150.000	0.1656
Methyl tert-Butyl Ether			Average RF			RSD = 5.3		
						Average RF = 1.053		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.9905	02	1.000	1.013	03	2.000	1.062
05	20.000	1.008	06	50.000	1.028	07	100.000	1.103
09	200.000	1.151				08	150.000	1.111
Methylcyclohexane			Average RF			RSD = 13.5		
						Average RF = 0.5121		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4480	02	1.000	0.4780	03	2.000	0.4804
05	20.000	0.4414	06	50.000	0.5126	07	100.000	0.5577
09	200.000	0.6425				08	150.000	0.5867

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Instrument ID: R-MS-10

Signal ID: 1

Analyte			Curve Fit			Weighting		
Naphthalene			Average RF			RSD = 8.9		
						Average RF = 1.609		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.463	02	1.000	1.353	03	2.000	1.527
05	20.000	1.602	06	50.000	1.705	07	100.000	1.821
09	200.000	1.685				08	150.000	1.718
Propionitrile			Average RF			RSD = 10.3		
						Average RF = 0.05838		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	2.500	0.05760	02	5.000	0.04606	03	10.000	0.05879
05	100.000	0.05440	06	250.000	0.05845	07	500.000	0.06379
09	1000.000	0.06613				08	750.000	0.06348
Styrene			Average RF			RSD = 13.2		
						Average RF = 1.042		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8100	02	1.000	0.9196	03	2.000	0.9641
05	20.000	1.006	06	50.000	1.100	07	100.000	1.202
09	200.000	1.196				08	150.000	1.183
Tetrachloroethene (PCE)			Average RF			RSD = 7.9		
						Average RF = 0.3005		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2969	02	1.000	0.3072	03	2.000	0.2823
05	20.000	0.2620	06	50.000	0.2866	07	100.000	0.3087
09	200.000	0.3453				08	150.000	0.3183
Tetrahydrofuran (THF)			Average RF			RSD = 9.8		
						Average RF = 0.1454		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1413	02	1.000	0.1630	03	2.000	0.1502
05	20.000	0.1341	06	50.000	0.1409	07	100.000	0.1534
09	200.000	0.1591				08	150.000	0.1502
Toluene			Average RF			RSD = 5.2		
						Average RF = 1.353		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.286	02	1.000	1.283	03	2.000	1.414
05	20.000	1.258	06	50.000	1.325	07	100.000	1.415
09	200.000	1.444				08	150.000	1.424
Toluene-d8			Average RF			RSD = 3.8		
						Average RF = 1.190		
#	Amount	RF	#	Amount	RF	#	Amount	RF
06	50.000	1.170	04	60.000	1.174	05	70.000	1.160
08	125.000	1.198	09	150.000	1.276	07	100.000	1.159
Trichloroethene (TCE)			Average RF			RSD = 8.4		
						Average RF = 0.3463		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3038	02	1.000	0.3475	03	2.000	0.3294
05	20.000	0.3224	06	50.000	0.3407	07	100.000	0.3615
09	200.000	0.4025				08	150.000	0.3704
Trichlorofluoromethane (CFC 11)			Average RF			RSD = 4.7		
						Average RF = 0.6683		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5984	02	1.000	0.6930	03	2.000	0.6858
05	20.000	0.6534	06	50.000	0.6746	07	100.000	0.6592
09	200.000	0.7101				08	150.000	0.6719

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Instrument ID: R-MS-10

Signal ID: 1

Analyte			Curve Fit			Weighting		
Vinyl Acetate			Average RF			RSD = 19.8		
						Average RF = 0.07465		
#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.04980	03	2.000	0.09640	04	5.000	0.07685
06	50.000	0.07251	07	100.000	0.07834	08	150.000	0.07854
Vinyl Chloride			Average RF			RSD = 7.4		
						Average RF = 0.6923		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.6483	02	1.000	0.6271	03	2.000	0.6957
05	20.000	0.6520	06	50.000	0.6962	07	100.000	0.7212
09	200.000	0.7864						
cis-1,2-Dichloroethene			Average RF			RSD = 6.1		
						Average RF = 0.4970		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4682	02	1.000	0.4659	03	2.000	0.4948
05	20.000	0.4701	06	50.000	0.4900	07	100.000	0.5207
09	200.000	0.5546						
cis-1,3-Dichloropropene			Average RF			RSD = 15.1		
						Average RF = 0.4412		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.3405	02	1.000	0.3852	03	2.000	0.4116
05	20.000	0.4138	06	50.000	0.4547	07	100.000	0.4923
09	200.000	0.5504						
m,p-Xylenes			Average RF			RSD = 9.1		
						Average RF = 0.6204		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.000	0.5485	02	2.000	0.5372	03	4.000	0.6174
05	40.000	0.5811	06	100.000	0.6429	07	200.000	0.6904
09	400.000	0.6780						
n-Butyl Acetate			Average RF			RSD = 19.9		
						Average RF = 0.5418		
#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4033	03	2.000	0.4982	04	5.000	0.4564
06	50.000	0.5740	07	100.000	0.6698	08	150.000	0.6901
n-Butylbenzene			Average RF			RSD = 7.4		
						Average RF = 2.058		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.796	02	1.000	1.925	03	2.000	2.008
05	20.000	1.998	06	50.000	2.216	07	100.000	2.301
09	200.000	2.057						
n-Heptane			Average RF			RSD = 9.0		
						Average RF = 0.5448		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5576	02	1.000	0.5149	03	2.000	0.4784
05	20.000	0.5012	06	50.000	0.5446	07	100.000	0.5819
09	200.000	0.6332						
n-Propylbenzene			Average RF			RSD = 7.3		
						Average RF = 2.971		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.623	02	1.000	3.063	03	2.000	3.093
05	20.000	2.964	06	50.000	3.199	07	100.000	3.200
09	200.000	2.637						

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Instrument ID: R-MS-10

Signal ID: 1

Analyte			Curve Fit			Weighting		
o-Xylene			Average RF			RSD = 10.7		
						Average RF = 0.6155		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5319	02	1.000	0.5594	03	2.000	0.5842
05	20.000	0.5701	06	50.000	0.6230	07	100.000	0.6669
09	200.000	0.7333				08	150.000	0.6822
sec-Butylbenzene			Average RF			RSD = 7.9		
						Average RF = 2.615		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	2.199	02	1.000	2.531	03	2.000	2.678
05	20.000	2.592	06	50.000	2.832	07	100.000	2.897
09	200.000	2.462				08	150.000	2.654
tert-Amyl Methyl Ether			Average RF			RSD = 13.8		
						Average RF = 0.7222		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5607	02	1.000	0.6193	03	2.000	0.6791
05	20.000	0.7127	06	50.000	0.7560	07	100.000	0.7905
09	200.000	0.8648				08	150.000	0.8375
tert-Butylbenzene			Average RF			RSD = 7.2		
						Average RF = 1.926		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	1.661	02	1.000	1.844	03	2.000	1.861
05	20.000	1.828	06	50.000	2.017	07	100.000	2.105
09	200.000	2.013				08	150.000	2.041
trans-1,2-Dichloroethene			Average RF			RSD = 5.3		
						Average RF = 0.4146		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.4177	02	1.000	0.3856	03	2.000	0.4072
05	20.000	0.3890	06	50.000	0.4067	07	100.000	0.4280
09	200.000	0.4561				08	150.000	0.4316
trans-1,3-Dichloropropene			Average RF			RSD = 17.3		
						Average RF = 0.3677		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.2723	02	1.000	0.3393	03	2.000	0.3155
05	20.000	0.3431	06	50.000	0.3784	07	100.000	0.4230
09	200.000	0.4677				08	150.000	0.4367
trans-1,4-Dichloro-2-butene			Average RF			RSD = 13.1		
						Average RF = 0.1091		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.1112	02	1.000	0.1025	03	2.000	0.09048
05	20.000	0.09553	06	50.000	0.1058	07	100.000	0.1219
09	200.000	0.1337				08	150.000	0.1220

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Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.39	-21.5	02	1.000	0.89	-11.4	03	2.000	1.83	-8.3
04	5.000	4.43	-11.4	05	20.000	17.95	-10.2	06	50.000	50.85	1.7
07	100.000	114.02	14.0	08	150.000	176.55	17.7	09	200.000	259.00	29.5

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.46	-7.8	02	1.000	0.93	-6.6	03	2.000	1.90	-5.2
04	5.000	4.72	-5.7	05	20.000	18.39	-8.0	06	50.000	49.63	-0.7
07	100.000	106.91	6.9	08	150.000	164.34	9.6	09	200.000	235.02	17.5

1,1,2,2-Tetrachloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.40	-20.0	02	1.000	0.91	-8.9	03	2.000	1.95	-2.4
04	5.000	4.99	-0.2	05	20.000	20.11	0.6	06	50.000	50.97	1.9
07	100.000	107.44	7.4	08	150.000	160.72	7.1	09	200.000	228.89	14.4

1,1,2-Trichloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-10.1	02	1.000	0.94	-5.9	03	2.000	1.95	-2.6
04	5.000	5.11	2.3	05	20.000	19.15	-4.2	06	50.000	48.67	-2.7
07	100.000	103.80	3.8	08	150.000	159.47	6.3	09	200.000	226.24	13.1

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.46	-7.4	02	1.000	0.96	-4.2	03	2.000	2.08	4.1
04	5.000	4.88	-2.4	05	20.000	18.81	-6.0	06	50.000	48.55	-2.9
07	100.000	101.62	1.6	08	150.000	157.72	5.1	09	200.000	223.97	12.0

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.48	-3.9	02	1.000	1.01	0.8	03	2.000	1.98	-0.8
04	5.000	4.81	-3.8	05	20.000	18.86	-5.7	06	50.000	49.99	0.0
07	100.000	104.89	4.9	08	150.000	150.96	0.6	09	200.000	215.79	7.9

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.48	-4.5	02	1.000	0.87	-13.3	03	2.000	1.99	-0.5
04	5.000	4.94	-1.1	05	20.000	19.04	-4.8	06	50.000	48.77	-2.5
07	100.000	102.98	3.0	08	150.000	161.92	7.9	09	200.000	231.62	15.8

1,1-Dichloropropene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-9.3	02	1.000	0.97	-3.4	03	2.000	1.94	-3.2
04	5.000	4.95	-1.1	05	20.000	18.10	-9.5	06	50.000	49.04	-1.9
07	100.000	104.50	4.5	08	150.000	161.61	7.7	09	200.000	232.13	16.1

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10
Signal ID: 1

Analyte

1,2,3-Trichlorobenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-12.5	02	1.000	0.89	-10.6	03	2.000	2.07	3.6
04	5.000	5.01	0.3	05	20.000	18.91	-5.5	06	50.000	51.75	3.5
07	100.000	109.44	9.4	08	150.000	155.41	3.6	09	200.000	216.39	8.2

1,2,3-Trichloropropane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.53	7.0	02	1.000	0.98	-2.5	03	2.000	2.05	2.7
04	5.000	5.16	3.3	05	20.000	19.07	-4.7	06	50.000	46.70	-6.6
07	100.000	98.09	-1.9	08	150.000	147.73	-1.5	09	200.000	208.49	4.2

1,2,4-Trichlorobenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-10.7	02	1.000	1.02	1.7	03	2.000	1.90	-5.2
04	5.000	4.84	-3.2	05	20.000	19.08	-4.6	06	50.000	51.52	3.0
07	100.000	107.61	7.6	08	150.000	155.35	3.6	09	200.000	215.60	7.8

1,2,4-Trimethylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.42	-15.7	02	1.000	0.96	-4.3	03	2.000	1.96	-1.9
04	5.000	5.18	3.6	05	20.000	19.94	-0.3	06	50.000	53.35	6.7
07	100.000	109.59	9.6	08	150.000	155.51	3.7	09	200.000	197.36	-1.3

1,2-Dibromo-3-chloropropane (DBCP)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-12.3	02	1.000	1.08	8.2	03	2.000	1.95	-2.6
04	5.000	4.52	-9.6	05	20.000	18.45	-7.7	06	50.000	47.47	-5.1
07	100.000	107.79	7.8	08	150.000	160.23	6.8	09	200.000	228.86	14.4

1,2-Dibromoethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-11.8	02	1.000	0.88	-11.7	03	2.000	1.94	-3.0
04	5.000	4.75	-5.0	05	20.000	19.37	-3.1	06	50.000	49.62	-0.8
07	100.000	109.51	9.5	08	150.000	163.12	8.7	09	200.000	234.42	17.2

1,2-Dichloro-1,1,2-trifluoroethane (CFC)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.42	-15.0	02	1.000	1.02	2.1	03	2.000	1.89	-5.5
04	5.000	4.98	-0.4	05	20.000	18.41	-8.0	06	50.000	51.55	3.1
07	100.000	105.77	5.8	08	150.000	167.99	12.0	09	200.000	211.73	5.9

1,2-Dichlorobenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.47	-6.8	02	1.000	0.95	-4.7	03	2.000	2.03	1.7
04	5.000	4.99	-0.1	05	20.000	19.40	-3.0	06	50.000	50.22	0.4
07	100.000	105.52	5.5	08	150.000	153.84	2.6	09	200.000	208.75	4.4

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1,2-Dichloroethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.45	-9.1	02	1.000	0.94	-6.4	03	2.000	2.02	1.0
04	5.000	5.02	0.4	05	20.000	18.81	-6.0	06	50.000	49.94	-0.1
07	100.000	104.51	4.5	08	150.000	156.90	4.6	09	200.000	222.10	11.0

1,2-Dichloroethane-d4

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
06	50.000	48.36	-3.3	04	60.000	59.98	0.0	05	70.000	68.23	-2.5
07	100.000	98.16	-1.8	08	125.000	125.73	0.6	09	150.000	160.66	7.1

1,2-Dichloropropane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.47	-5.7	02	1.000	0.99	-0.8	03	2.000	1.98	-1.1
04	5.000	4.73	-5.5	05	20.000	18.49	-7.5	06	50.000	48.30	-3.4
07	100.000	103.27	3.3	08	150.000	158.76	5.8	09	200.000	229.74	14.9

1,3,5-Trichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.49	-2.8	02	1.000	0.95	-5.4	03	2.000	1.92	-4.1
04	5.000	4.92	-1.5	05	20.000	18.40	-8.0	06	50.000	52.07	4.1
07	100.000	102.89	2.9	08	150.000	154.10	2.7	09	200.000	224.22	12.1

1,3,5-Trimethylbenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.42	-16.2	02	1.000	0.92	-7.9	03	2.000	1.99	-0.3
04	5.000	5.10	2.0	05	20.000	19.64	-1.8	06	50.000	53.74	7.5
07	100.000	111.48	11.5	08	150.000	157.81	5.2	09	200.000	200.31	0.2

1,3-Dichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.52	3.1	02	1.000	0.94	-6.3	03	2.000	1.88	-6.2
04	5.000	5.02	0.4	05	20.000	19.06	-4.7	06	50.000	50.42	0.8
07	100.000	104.80	4.8	08	150.000	153.81	2.5	09	200.000	211.14	5.6

1,3-Dichloropropane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-4.6	02	1.000	0.93	-7.2	03	2.000	2.03	1.4
04	5.000	4.65	-7.0	05	20.000	18.66	-6.7	06	50.000	48.91	-2.2
07	100.000	106.71	6.7	08	150.000	160.23	6.8	09	200.000	225.34	12.7

1,4-Dichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.51	1.7	02	1.000	0.94	-6.4	03	2.000	2.11	5.3
04	5.000	4.98	-0.4	05	20.000	18.88	-5.6	06	50.000	49.18	-1.6
07	100.000	103.64	3.6	08	150.000	151.83	1.2	09	200.000	204.36	2.2

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Analyte

1,4-Dioxane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	20.000	17.79	-11.0	03	40.000	40.96	2.4	04	100.000	93.13	-6.9
05	400.000	368.09	-8.0	06	1000.000	909.86	-9.0	07	2000.000	2,224.54	11.2
08	3000.000	3,255.39	8.5	09	4000.000	4,509.62	12.7				

1-Butanol

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	50.000	49.13	-1.7	03	100.000	107.14	7.1	04	250.000	229.57	-8.2
05	1000.000	939.84	-6.0	06	2500.000	2,548.95	2.0	07	5000.000	5,352.80	7.1
08	7500.000	7,610.84	1.5	09	10000.000	9,656.73	-3.4				

1-Chloro-4-(trifluoromethyl)benzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.40	-20.0	02	1.000	0.88	-12.2	03	2.000	2.03	1.5
04	5.000	4.69	-6.2	05	20.000	17.80	-11.0	06	50.000	51.10	2.2
07	100.000	106.66	6.7	08	150.000	166.78	11.2	09	200.000	255.79	27.9

2,2-Dichloro-1,1,1-trifluoroethane (CFC)

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.44	-12.9	02	1.000	0.91	-9.4	03	2.000	1.96	-1.9
04	5.000	4.92	-1.5	05	20.000	18.28	-8.6	06	50.000	49.74	-0.5
07	100.000	103.12	3.1	08	150.000	167.41	11.6	09	200.000	240.08	20.0

2,2-Dichloropropane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.42	-16.3	02	1.000	0.99	-1.0	03	2.000	1.98	-0.9
04	5.000	4.89	-2.1	05	20.000	18.31	-8.4	06	50.000	49.44	-1.1
07	100.000	106.38	6.4	08	150.000	163.07	8.7	09	200.000	229.50	14.8

2,3,6-Trichlorotoluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.43	-14.3	02	1.000	0.85	-15.0	03	2.000	2.02	0.9
04	5.000	4.64	-7.1	05	20.000	18.46	-7.7	06	50.000	52.79	5.6
07	100.000	109.75	9.7	08	150.000	163.97	9.3	09	200.000	237.19	18.6

2,4,5-Trichlorotoluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.37	-25.5	02	1.000	0.92	-7.9	03	2.000	1.82	-9.0
04	5.000	4.61	-7.7	05	20.000	18.36	-8.2	06	50.000	55.41	10.8
07	100.000	113.04	13.0	08	150.000	168.59	12.4	09	200.000	244.14	22.1

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	1.500	1.27	-15.4	02	3.000	2.78	-7.4	03	6.000	5.87	-2.1
04	15.000	15.17	1.2	05	60.000	58.85	-1.9	06	150.000	167.00	11.3
07	300.000	327.67	9.2	08	450.000	467.80	4.0	09	600.000	607.54	1.3

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Analyte

2,4-Dichlorobenzotrifluoride

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-9.8	02	1.000	1.04	3.6	03	2.000	1.88	-6.2
04	5.000	4.77	-4.6	05	20.000	17.38	-13.1	06	50.000	51.04	2.1
07	100.000	101.90	1.9	08	150.000	156.96	4.6	09	200.000	242.71	21.4

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.49	-2.6	02	1.000	0.99	-1.0	03	2.000	1.97	-1.3
04	5.000	4.62	-7.5	05	20.000	17.64	-11.8	06	50.000	50.73	1.5
07	100.000	102.79	2.8	08	150.000	157.11	4.7	09	200.000	230.43	15.2

2-Butanone (MEK)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.61	21.2	02	1.000	0.82	-17.7	03	2.000	2.08	3.8
04	5.000	4.82	-3.5	05	20.000	17.78	-11.1	06	50.000	48.28	-3.4
07	100.000	99.68	-0.3	08	150.000	152.84	1.9	09	200.000	218.50	9.2

2-Chloro-1,3-butadiene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.49	-2.9	02	1.000	0.90	-10.0	03	2.000	1.97	-1.4
04	5.000	5.04	0.7	05	20.000	15.64	-21.8	06	50.000	51.70	3.4
07	100.000	103.90	3.9	08	150.000	165.20	10.1	09	200.000	235.71	17.9

2-Chlorobenzotrifluoride

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.41	-18.0	02	1.000	0.88	-12.4	03	2.000	1.86	-7.2
04	5.000	4.74	-5.2	05	20.000	17.72	-11.4	06	50.000	52.51	5.0
07	100.000	106.77	6.8	08	150.000	169.83	13.2	09	200.000	258.43	29.2

2-Chloroethyl Vinyl Ether

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.47	-6.5	02	1.000	0.92	-8.2	03	2.000	1.83	-8.5
04	5.000	4.76	-4.8	05	20.000	16.39	-18.0	06	50.000	50.80	1.6
07	100.000	106.95	6.9	08	150.000	171.83	14.6	09	200.000	245.98	23.0

2-Chlorotoluene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.43	-14.2	02	1.000	0.95	-5.2	03	2.000	2.05	2.6
04	5.000	5.07	1.5	05	20.000	19.39	-3.0	06	50.000	51.12	2.2
07	100.000	106.31	6.3	08	150.000	157.78	5.2	09	200.000	209.29	4.6

2-Hexanone

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.48	-4.4	02	1.000	0.82	-18.0	03	2.000	1.94	-3.1
04	5.000	4.43	-11.4	05	20.000	17.22	-13.9	06	50.000	50.41	0.8
07	100.000	111.97	12.0	08	150.000	172.45	15.0	09	200.000	246.08	23.0

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Analyte

2-Methyl-1-propanol

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
03	40.000	34.67	-13.3	04	100.000	83.98	-16.0	05	400.000	336.95	-15.8
06	1000.000	913.91	-8.6	07	2000.000	2,254.99	12.7	08	3000.000	3,497.51	16.6
09	4000.000	4,975.35	24.4								

2-Methyl-2-propanol

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	10.000	8.33	-16.7	02	20.000	17.16	-14.2	03	40.000	41.78	4.4
04	100.000	95.50	-4.5	05	400.000	374.79	-6.3	06	1000.000	963.51	-3.6
07	2000.000	2,242.95	12.1	08	3000.000	3,384.21	12.8	09	4000.000	4,637.19	15.9

2-Nitropropane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
03	4.000	3.44	-13.9	04	10.000	9.09	-9.1	05	40.000	35.14	-12.1
06	100.000	95.12	-4.9	07	200.000	231.01	15.5	08	300.000	373.52	24.5

2-Propanol

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	10.000	8.95	-10.5	02	20.000	18.46	-7.7	03	40.000	33.45	-16.4
04	100.000	89.12	-10.9	05	400.000	361.34	-9.7	06	1000.000	1,033.51	3.4
07	2000.000	2,316.76	15.8	08	3000.000	3,512.46	17.1	09	4000.000	4,753.05	18.8

3,4- and 2,3-Dichlorotoluene Coelution

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	1.000	0.91	-9.1	02	2.000	1.89	-5.6	03	4.000	3.92	-2.0
04	10.000	10.21	2.1	05	40.000	39.53	-1.2	06	100.000	111.77	11.8
07	200.000	216.51	8.3	08	300.000	300.30	0.1	09	400.000	382.64	-4.3

3,4-Dichlorobenzotrifluoride

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.44	-11.7	02	1.000	0.98	-2.2	03	2.000	1.84	-8.0
04	5.000	4.73	-5.3	05	20.000	18.00	-10.0	06	50.000	52.30	4.6
07	100.000	105.40	5.4	08	150.000	160.65	7.1	09	200.000	240.21	20.1

3-Chloro-1-propene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-3.1	02	1.000	1.00	-0.3	03	2.000	1.84	-8.2
04	5.000	4.87	-2.6	05	20.000	18.22	-8.9	06	50.000	50.81	1.6
07	100.000	107.22	7.2	08	150.000	155.82	3.9	09	200.000	220.90	10.4

3-Chlorobenzotrifluoride

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.41	-17.0	02	1.000	0.98	-2.1	03	2.000	2.00	-0.1
04	5.000	4.66	-6.7	05	20.000	17.69	-11.5	06	50.000	50.20	0.4
07	100.000	104.21	4.2	08	150.000	163.32	8.9	09	200.000	247.98	24.0

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Analyte

3-Chlorotoluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.47	-6.3	02	1.000	0.96	-3.9	03	2.000	1.98	-1.1
04	5.000	5.13	2.6	05	20.000	18.91	-5.5	06	50.000	52.89	5.8
07	100.000	103.37	3.4	08	150.000	152.46	1.6	09	200.000	206.78	3.4

4-Bromofluorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
06	50.000	49.63	-0.7	04	60.000	59.08	-1.5	05	70.000	66.95	-4.4
07	100.000	96.96	-3.0	08	125.000	125.61	0.5	09	150.000	163.76	9.2

4-Chlorotoluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-4.5	02	1.000	0.89	-10.8	03	2.000	2.07	3.5
04	5.000	5.02	0.4	05	20.000	19.36	-3.2	06	50.000	52.28	4.6
07	100.000	107.80	7.8	08	150.000	155.08	3.4	09	200.000	197.80	-1.1

4-Isopropyltoluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.44	-12.1	02	1.000	0.92	-8.0	03	2.000	1.99	-0.6
04	5.000	5.10	1.9	05	20.000	19.70	-1.5	06	50.000	54.02	8.0
07	100.000	112.01	12.0	08	150.000	155.94	4.0	09	200.000	192.55	-3.7

4-Methyl-2-pentanone

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.43	-14.1	02	1.000	0.89	-10.8	03	2.000	1.89	-5.5
04	5.000	4.86	-2.8	05	20.000	17.25	-13.8	06	50.000	50.86	1.7
07	100.000	108.67	8.7	08	150.000	171.32	14.2	09	200.000	244.78	22.4

Acetone

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
04	5.000	6.06	21.1	05	20.000	15.40	-23.0	06	50.000	47.65	-4.7
07	100.000	104.02	4.0	08	150.000	159.54	6.4	09	200.000	192.15	-3.9

Acetonitrile

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	5.000	4.25	-14.9	03	10.000	10.69	6.9	04	25.000	20.62	-17.5
05	100.000	96.29	-3.7	06	250.000	245.95	-1.6	07	500.000	521.35	4.3
08	750.000	805.12	7.3	09	1000.000	1,192.27	19.2				

Acrolein

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	2.500	2.02	-19.2	02	5.000	5.21	4.2	03	10.000	9.41	-5.9
04	25.000	24.27	-2.9	05	100.000	89.12	-10.9	06	250.000	253.24	1.3
07	500.000	526.85	5.4	08	750.000	838.29	11.8	09	1000.000	1,163.10	16.3

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Analyte

Acrylonitrile

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	2.500	2.25	-10.2	02	5.000	4.30	-13.9	03	10.000	9.95	-0.5
04	25.000	23.59	-5.6	05	100.000	101.62	1.6	06	250.000	251.63	0.7
07	500.000	541.42	8.3	08	750.000	804.37	7.2	09	1000.000	1,124.66	12.5

Benzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.51	2.5	02	1.000	0.88	-12.1	03	2.000	2.04	2.0
04	5.000	4.84	-3.1	05	20.000	18.42	-7.9	06	50.000	48.56	-2.9
07	100.000	103.71	3.7	08	150.000	158.88	5.9	09	200.000	223.79	11.9

Bromobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.50	0.9	02	1.000	0.96	-4.2	03	2.000	2.01	0.5
04	5.000	4.95	-0.9	05	20.000	18.88	-5.6	06	50.000	48.29	-3.4
07	100.000	100.86	0.9	08	150.000	153.06	2.0	09	200.000	219.88	9.9

Bromochloromethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.47	-5.1	02	1.000	1.08	8.1	03	2.000	1.98	-1.1
04	5.000	4.82	-3.6	05	20.000	18.94	-5.3	06	50.000	50.11	0.2
07	100.000	101.85	1.8	08	150.000	151.90	1.3	09	200.000	207.43	3.7

Bromodichloromethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.46	-9.0	02	1.000	0.92	-7.7	03	2.000	1.92	-3.8
04	5.000	4.65	-7.0	05	20.000	18.30	-8.5	06	50.000	49.52	-1.0
07	100.000	107.18	7.2	08	150.000	166.20	10.8	09	200.000	238.08	19.0

Bromoform

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	1.000	0.76	-24.0	03	2.000	1.83	-8.7	04	5.000	4.37	-12.7
05	20.000	18.41	-8.0	06	50.000	53.07	6.1	07	100.000	121.88	21.9
08	150.000	187.92	25.3								

Bromomethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.56	11.3	02	1.000	0.97	-3.4	03	2.000	2.03	1.7
04	5.000	4.61	-7.8	05	20.000	18.00	-10.0	06	50.000	47.36	-5.3
07	100.000	99.55	-0.5	08	150.000	157.16	4.8	09	200.000	218.29	9.1

Carbon Disulfide

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.50	0.6	02	1.000	1.03	3.2	03	2.000	2.04	1.8
04	5.000	4.95	-1.1	05	20.000	15.36	-23.2	06	50.000	49.28	-1.4
07	100.000	98.59	-1.4	08	150.000	161.97	8.0	09	200.000	226.94	13.5

Initial Calibration - Detailed Report

Calibration ID: RC1500051

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Signal ID: 1

Analyte

Carbon Tetrachloride

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.49	-1.4	02	1.000	0.91	-9.2	03	2.000	1.71	-14.6
04	5.000	4.54	-9.2	05	20.000	17.19	-14.0	06	50.000	49.78	-0.4
07	100.000	108.95	8.9	08	150.000	170.72	13.8	09	200.000	252.43	26.2

Chlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-4.7	02	1.000	0.92	-8.0	03	2.000	1.94	-3.1
04	5.000	4.93	-1.4	05	20.000	18.80	-6.0	06	50.000	50.07	0.1
07	100.000	107.34	7.3	08	150.000	159.46	6.3	09	200.000	218.91	9.5

Chloroethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.51	2.1	02	1.000	1.06	6.0	03	2.000	1.89	-5.4
04	5.000	4.62	-7.6	05	20.000	18.46	-7.7	06	50.000	48.27	-3.5
07	100.000	100.95	0.9	08	150.000	158.05	5.4	09	200.000	219.52	9.8

Chloroform

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-3.2	02	1.000	0.94	-6.2	03	2.000	1.96	-2.1
04	5.000	4.93	-1.3	05	20.000	18.89	-5.6	06	50.000	49.47	-1.1
07	100.000	103.35	3.3	08	150.000	157.62	5.1	09	200.000	222.18	11.1

Chloromethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.46	-7.8	02	1.000	0.93	-6.6	03	2.000	1.88	-6.1
04	5.000	4.44	-11.2	05	20.000	19.23	-3.8	06	50.000	50.53	1.1
07	100.000	106.33	6.3	08	150.000	165.67	10.4	09	200.000	235.48	17.7

Cyclohexane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.46	-8.1	02	1.000	0.96	-4.4	03	2.000	1.91	-4.5
04	5.000	4.55	-8.9	05	20.000	17.16	-14.2	06	50.000	50.03	0.1
07	100.000	106.01	6.0	08	150.000	168.25	12.2	09	200.000	243.75	21.9

Cyclohexanone

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	10.000	8.07	-19.3	02	20.000	16.59	-17.0	03	40.000	39.97	-0.1
04	100.000	94.81	-5.2	05	400.000	349.72	-12.6	06	1000.000	944.38	-5.6
07	2000.000	2,338.68	16.9	08	3000.000	3,565.31	18.8	09	4000.000	4,959.13	24.0

Dibromochloromethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.38	-24.1	02	1.000	0.86	-13.6	03	2.000	1.80	-9.8
04	5.000	4.57	-8.6	05	20.000	18.59	-7.1	06	50.000	51.57	3.1
07	100.000	114.92	14.9	08	150.000	177.17	18.1	09	200.000	253.96	27.0

Initial Calibration - Detailed Report

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Signal ID: 1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	48.44	-3.1	04	60.000	58.93	-1.8	05	70.000	68.06	-2.8
07	100.000	98.07	-1.9	08	125.000	125.86	0.7	09	150.000	163.35	8.9

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.44	-11.2	02	1.000	1.03	2.5	03	2.000	1.99	-0.7
04	5.000	5.17	3.4	05	20.000	18.77	-6.2	06	50.000	47.94	-4.1
07	100.000	101.52	1.5	08	150.000	154.95	3.3	09	200.000	222.86	11.4

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-23.6	02	1.000	0.93	-6.7	03	2.000	1.60	-20.2
04	5.000	4.36	-12.7	05	20.000	21.47	7.3	06	50.000	54.39	8.8
07	100.000	112.44	12.4	08	150.000	170.48	13.7	09	200.000	241.92	21.0

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.46	-7.9	02	1.000	0.87	-13.1	03	2.000	1.68	-16.1
04	5.000	4.46	-10.9	05	20.000	18.89	-5.6	06	50.000	52.86	5.7
07	100.000	108.82	8.8	08	150.000	174.50	16.3	09	200.000	245.17	22.6

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.6	02	1.000	1.00	-0.2	03	2.000	2.04	2.1
04	5.000	4.65	-7.0	05	20.000	18.93	-5.4	06	50.000	47.35	-5.3
07	100.000	96.92	-3.1	08	150.000	149.53	-0.3	09	200.000	210.92	5.5

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-23.9	02	1.000	0.90	-10.4	03	2.000	2.12	5.8
04	5.000	5.07	1.4	05	20.000	19.80	-1.0	06	50.000	51.50	3.0
07	100.000	105.98	6.0	08	150.000	161.86	7.9	09	200.000	222.66	11.3

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.43	-13.0	02	1.000	0.92	-8.2	03	2.000	1.96	-1.8
04	5.000	4.89	-2.2	05	20.000	20.65	3.2	06	50.000	52.56	5.1
07	100.000	105.79	5.8	08	150.000	160.40	6.9	09	200.000	208.40	4.2

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.38	-24.8	02	1.000	0.83	-16.9	03	2.000	1.81	-9.7
04	5.000	4.41	-11.8	05	20.000	18.60	-7.0	06	50.000	51.57	3.1
07	100.000	117.76	17.8	08	150.000	180.01	20.0	09	200.000	258.38	29.2

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.43	-14.7	02	1.000	0.89	-10.9	03	2.000	1.95	-2.4
04	5.000	4.84	-3.1	05	20.000	20.17	0.8	06	50.000	51.13	2.3
07	100.000	105.81	5.8	08	150.000	165.93	10.6	09	200.000	223.39	11.7

Ethylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-10.7	02	1.000	0.89	-10.5	03	2.000	1.91	-4.7
04	5.000	4.76	-4.8	05	20.000	18.16	-9.2	06	50.000	49.74	-0.5
07	100.000	108.52	8.5	08	150.000	167.08	11.4	09	200.000	241.13	20.6

Hexachlorobutadiene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.54	7.1	02	1.000	1.01	0.9	03	2.000	1.80	-10.1
04	5.000	4.97	-0.6	05	20.000	18.01	-9.9	06	50.000	49.68	-0.6
07	100.000	102.77	2.8	08	150.000	151.48	1.0	09	200.000	219.17	9.6

Iodomethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.56	11.4	02	1.000	0.92	-8.1	03	2.000	1.88	-5.9
04	5.000	4.21	-15.9	05	20.000	16.77	-16.2	06	50.000	52.61	5.2
07	100.000	105.27	5.3	08	150.000	166.32	10.9	09	200.000	226.52	13.3

Isopropylbenzene (Cumene)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.41	-19.0	02	1.000	0.92	-7.9	03	2.000	1.97	-1.7
04	5.000	4.98	-0.3	05	20.000	19.53	-2.4	06	50.000	53.92	7.8
07	100.000	112.66	12.7	08	150.000	162.48	8.3	09	200.000	204.87	2.4

Methacrylonitrile

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.48	-4.7	02	1.000	0.97	-3.4	03	2.000	2.03	1.3
04	5.000	4.72	-5.5	05	20.000	18.69	-6.5	06	50.000	49.08	-1.8
07	100.000	104.17	4.2	08	150.000	157.98	5.3	09	200.000	222.33	11.2

Methyl Acetate

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.50	-0.5	02	1.000	1.03	2.8	03	2.000	1.95	-2.7
04	5.000	4.69	-6.2	05	20.000	17.88	-10.6	06	50.000	48.11	-3.8
07	100.000	104.18	4.2	08	150.000	160.01	6.7	09	200.000	220.37	10.2

Methyl Methacrylate

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.43	-14.6	02	1.000	0.83	-17.4	03	2.000	1.94	-2.8
04	5.000	4.79	-4.2	05	20.000	18.32	-8.4	06	50.000	50.84	1.7
07	100.000	110.69	10.7	08	150.000	170.66	13.8	09	200.000	242.58	21.3

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

Methyl tert-Butyl Ether

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.47	-6.0	02	1.000	0.96	-3.9	03	2.000	2.02	0.8
04	5.000	4.82	-3.7	05	20.000	19.14	-4.3	06	50.000	48.78	-2.4
07	100.000	104.69	4.7	08	150.000	158.16	5.4	09	200.000	218.58	9.3

Methylcyclohexane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.44	-12.5	02	1.000	0.93	-6.6	03	2.000	1.88	-6.2
04	5.000	4.50	-9.9	05	20.000	17.24	-13.8	06	50.000	50.05	0.1
07	100.000	108.92	8.9	08	150.000	171.86	14.6	09	200.000	250.94	25.5

Naphthalene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.45	-9.1	02	1.000	0.84	-15.9	03	2.000	1.90	-5.1
04	5.000	4.99	-0.2	05	20.000	19.91	-0.4	06	50.000	52.99	6.0
07	100.000	113.19	13.2	08	150.000	160.15	6.8	09	200.000	209.50	4.8

Propionitrile

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	2.500	2.47	-1.3	02	5.000	3.95	-21.1	03	10.000	10.07	0.7
04	25.000	24.28	-2.9	05	100.000	93.19	-6.8	06	250.000	250.34	0.1
07	500.000	546.39	9.3	08	750.000	815.53	8.7	09	1000.000	1,132.84	13.3

Styrene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.39	-22.3	02	1.000	0.88	-11.8	03	2.000	1.85	-7.5
04	5.000	4.79	-4.2	05	20.000	19.31	-3.4	06	50.000	52.79	5.6
07	100.000	115.29	15.3	08	150.000	170.21	13.5	09	200.000	229.59	14.8

Tetrachloroethene (PCE)

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.49	-1.2	02	1.000	1.02	2.2	03	2.000	1.88	-6.1
04	5.000	4.95	-1.1	05	20.000	17.44	-12.8	06	50.000	47.69	-4.6
07	100.000	102.72	2.7	08	150.000	158.90	5.9	09	200.000	229.78	14.9

Tetrahydrofuran (THF)

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.49	-2.8	02	1.000	1.12	12.1	03	2.000	2.07	3.3
04	5.000	4.00	-20.1	05	20.000	18.45	-7.7	06	50.000	48.45	-3.1
07	100.000	105.52	5.5	08	150.000	155.00	3.3	09	200.000	218.83	9.4

Toluene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.48	-4.9	02	1.000	0.95	-5.2	03	2.000	2.09	4.5
04	5.000	4.91	-1.7	05	20.000	18.59	-7.0	06	50.000	48.97	-2.1
07	100.000	104.54	4.5	08	150.000	157.81	5.2	09	200.000	213.38	6.7

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Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

Toluene-d8

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
06	50.000	49.16	-1.7	04	60.000	59.23	-1.3	05	70.000	68.28	-2.5
07	100.000	97.40	-2.6	08	125.000	125.90	0.7	09	150.000	160.96	7.3

Trichloroethene (TCE)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-12.3	02	1.000	1.00	0.3	03	2.000	1.90	-4.9
04	5.000	4.88	-2.3	05	20.000	18.62	-6.9	06	50.000	49.20	-1.6
07	100.000	104.40	4.4	08	150.000	160.44	7.0	09	200.000	232.50	16.3

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.45	-10.4	02	1.000	1.04	3.7	03	2.000	2.05	2.6
04	5.000	5.00	0.0	05	20.000	19.56	-2.2	06	50.000	50.47	0.9
07	100.000	98.64	-1.4	08	150.000	150.81	0.5	09	200.000	212.53	6.3

Vinyl Acetate

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
02	1.000	0.67	-33.3	03	2.000	2.58	29.1	04	5.000	5.15	3.0
05	20.000	15.65	-21.7	06	50.000	48.57	-2.9	07	100.000	104.94	4.9
08	150.000	157.82	5.2	09	200.000	231.30	15.7				

Vinyl Chloride

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.47	-6.4	02	1.000	0.91	-9.4	03	2.000	2.01	0.5
04	5.000	4.77	-4.7	05	20.000	18.84	-5.8	06	50.000	50.28	0.6
07	100.000	104.17	4.2	08	150.000	161.22	7.5	09	200.000	227.16	13.6

cis-1,2-Dichloroethene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.47	-5.8	02	1.000	0.94	-6.3	03	2.000	1.99	-0.4
04	5.000	4.88	-2.4	05	20.000	18.92	-5.4	06	50.000	49.30	-1.4
07	100.000	104.78	4.8	08	150.000	157.97	5.3	09	200.000	223.20	11.6

cis-1,3-Dichloropropene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.39	-22.8	02	1.000	0.87	-12.7	03	2.000	1.87	-6.7
04	5.000	4.65	-7.0	05	20.000	18.76	-6.2	06	50.000	51.53	3.1
07	100.000	111.58	11.6	08	150.000	174.00	16.0	09	200.000	249.51	24.8

m,p-Xylenes

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	1.000	0.88	-11.6	02	2.000	1.73	-13.4	03	4.000	3.98	-0.5
04	10.000	9.86	-1.4	05	40.000	37.47	-6.3	06	100.000	103.63	3.6
07	200.000	222.59	11.3	08	300.000	326.95	9.0	09	400.000	437.14	9.3

00212

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

n-Butyl Acetate

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
02	1.000	0.74	-25.6	03	2.000	1.84	-8.0	04	5.000	4.21	-15.8
05	20.000	18.48	-7.6	06	50.000	52.97	5.9	07	100.000	123.63	23.6
08	150.000	191.08	27.4								

n-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-12.7	02	1.000	0.94	-6.4	03	2.000	1.95	-2.4
04	5.000	5.04	0.8	05	20.000	19.42	-2.9	06	50.000	53.86	7.7
07	100.000	111.85	11.9	08	150.000	156.27	4.2	09	200.000	199.90	-0.1

n-Heptane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.51	2.3	02	1.000	0.95	-5.5	03	2.000	1.76	-12.2
04	5.000	4.69	-6.3	05	20.000	18.40	-8.0	06	50.000	49.98	0.0
07	100.000	106.81	6.8	08	150.000	159.95	6.6	09	200.000	232.47	16.2

n-Propylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.44	-11.7	02	1.000	1.03	3.1	03	2.000	2.08	4.1
04	5.000	5.17	3.5	05	20.000	19.96	-0.2	06	50.000	53.85	7.7
07	100.000	107.72	7.7	08	150.000	145.59	-2.9	09	200.000	177.55	-11.2

o-Xylene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.43	-13.6	02	1.000	0.91	-9.1	03	2.000	1.90	-5.1
04	5.000	4.78	-4.4	05	20.000	18.52	-7.4	06	50.000	50.61	1.2
07	100.000	108.35	8.3	08	150.000	166.25	10.8	09	200.000	238.30	19.1

sec-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.42	-15.9	02	1.000	0.97	-3.2	03	2.000	2.05	2.4
04	5.000	5.15	3.0	05	20.000	19.82	-0.9	06	50.000	54.15	8.3
07	100.000	110.77	10.8	08	150.000	152.20	1.5	09	200.000	188.25	-5.9

tert-Amyl Methyl Ether

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.39	-22.4	02	1.000	0.86	-14.2	03	2.000	1.88	-6.0
04	5.000	4.70	-5.9	05	20.000	19.74	-1.3	06	50.000	52.34	4.7
07	100.000	109.45	9.4	08	150.000	173.94	16.0	09	200.000	239.47	19.7

tert-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.43	-13.7	02	1.000	0.96	-4.3	03	2.000	1.93	-3.4
04	5.000	5.10	2.0	05	20.000	18.98	-5.1	06	50.000	52.36	4.7
07	100.000	109.28	9.3	08	150.000	158.92	5.9	09	200.000	209.00	4.5

00213

Initial Calibration - Detailed Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Signal ID: 1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.50	0.7	02	1.000	0.93	-7.0	03	2.000	1.96	-1.8
04	5.000	4.94	-1.2	05	20.000	18.76	-6.2	06	50.000	49.04	-1.9
07	100.000	103.23	3.2	08	150.000	156.13	4.1	09	200.000	219.98	10.0

trans-1,3-Dichloropropene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.37	-25.9	02	1.000	0.92	-7.7	03	2.000	1.72	-14.2
04	5.000	4.53	-9.3	05	20.000	18.66	-6.7	06	50.000	51.46	2.9
07	100.000	115.03	15.0	08	150.000	178.14	18.8	09	200.000	254.40	27.2

trans-1,4-Dichloro-2-butene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.51	1.9	02	1.000	0.94	-6.0	03	2.000	1.66	-17.1
04	5.000	4.52	-9.5	05	20.000	17.52	-12.4	06	50.000	48.49	-3.0
07	100.000	111.71	11.7	08	150.000	167.82	11.9	09	200.000	245.08	22.5

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8252.D

Acq On : 6 May 2015 4:31 pm

Operator : F. NAEGLER

Sample : 0.5 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 09:13:00 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FJ
shls

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	921885	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1425855	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1351123	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	778182	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	422382	49.56	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	99.12%	
46) surr1,1,2-dichloroetha...	5.414	65	436128	49.16	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	98.32%	
64) SURR3,Toluene-d8	8.042	98	1646154	50.30	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.60%	
69) SURR2,BFB	10.675	95	669832	46.66	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	93.32%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.165	85	3658m	0.42	ug/L	
3) Chloromethane	1.281	50	8079	0.74	ug/L	96
4) Vinyl Chloride	1.354	62	5977m	0.59	ug/L	
5) Bromomethane	1.573	94	2940	0.83	ug/L #	64
6) Chloroethane	1.634	64	3200m	0.55	ug/L	
7) Freon 21	1.768	67	7053	0.44	ug/L	93
8) Trichlorofluoromethane	1.817	101	5517	0.44	ug/L	96
9) Diethyl Ether	2.012	59	2823	0.43	ug/L #	61
10) Freon 123a	2.012	67	3972	0.40	ug/L	90
11) Freon 123	2.061	83	4504	0.41	ug/L	85
12) Acrolein	2.110	56	2815	2.92	ug/L #	59
13) 1,1-Dicethene	2.195	96	3243	0.46	ug/L #	82
14) Freon 113	2.195	101	3288	0.42	ug/L	85
15) Acetone	2.226	43	4339	2.00	ug/L	98
16) 2-Propanol	2.329	45	4326	10.86	ug/L	62
17) Iodomethane	2.323	142	5604m	1.18	ug/L	
18) Carbon Disulfide	2.378	76	12277	0.47	ug/L	98
20) Allyl Chloride	2.488	76	2140	0.51	ug/L #	46
21) Methyl Acetate	2.500	43	3339	0.69	ug/L	68
22) Methylene Chloride	2.597	84	4733	0.60	ug/L #	79
23) TBA	2.695	59	5158	8.57	ug/L	68
24) Acrylonitrile	2.823	53	6692	3.00	ug/L	85
25) Methyl-t-Butyl Ether	2.860	73	9131	0.44	ug/L #	39
26) trans-1,2-Dichloroethene	2.860	96	3851	0.48	ug/L #	90
27) 1,1-Dicethane	3.311	63	8199	0.55	ug/L	93
28) Vinyl Acetate	3.384	86	375m	0.26	ug/L	
29) DIPE	3.402	45	20348	0.63	ug/L #	67
30) 2-Chloro-1,3-Butadiene	3.414	53	9639	0.56	ug/L	84
31) ETBE	3.872	59	13622m	0.50	ug/L	
32) 2,2-Dichloropropane	4.048	77	4615	0.39	ug/L	95
33) cis-1,2-Dichloroethene	4.048	96	4316	0.48	ug/L #	76
34) 2-Butanone	4.103	43	2628m	0.88	ug/L	
35) Propionitrile	4.170	54	2655	3.28	ug/L	89
36) Bromochloromethane	4.414	130	2673m	0.53	ug/L	

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:13:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
37) Methacrylonitrile	4.402	67	1212	0.51	ug/L	96
38) Tetrahydrofuran	4.493	42	1303	0.67	ug/L #	38
39) Chloroform	4.561	83	7345	0.52	ug/L #	76
40) 1,1,1-Trichloroethane	4.847	97	5954m	0.46	ug/L	
42) Cyclohexane	4.957	41	6228m	0.57	ug/L	
44) Carbontetrachloride	5.140	121	1736	0.45	ug/L	82
45) 1,1-Dichloropropene	5.158	75	5229	0.45	ug/L	85
47) Benzene	5.499	78	18312	0.53	ug/L	86
48) 1,2-Dichloroethane	5.554	62	5609	0.48	ug/L	91
49) Iso-Butyl Alcohol	5.505	43	2936m	9.36	ug/L	
50) TAME	5.755	73	7995m	0.36	ug/L	
51) n-Heptane	6.011	43	7950	0.66	ug/L #	70
52) 1-Butanol	6.524	56	2096	11.71	ug/L	88
53) Trichloroethene	6.499	130	4332	0.46	ug/L #	87
54) Methylcyclohexane	6.755	55	6388m	0.49	ug/L	
55) 1,2-Dicloropropane	6.798	63	4967	0.54	ug/L	94
56) Dibromomethane	6.938	93	2058	0.44	ug/L	88
58) Methyl Methacrylate	7.023	69	1772	0.39	ug/L #	45
59) Bromodichloromethane	7.176	83	5052	0.44	ug/L	82
60) 2-Nitropropane	7.462	41	1141m	0.59	ug/L	
61) 2-Chloroethylvinyl Ether	7.596	63	2303	0.52	ug/L	68
62) cis-1,3-Dichloropropene	7.731	75	4855	0.35	ug/L	78
63) 4-Methyl-2-pentanone	7.956	43	3877m	0.55	ug/L	
65) Toluene	8.121	91	18343	0.50	ug/L	91
66) trans-1,3-Dichloropropene	8.395	75	3883	0.32	ug/L	90
67) Ethyl Methacrylate	8.548	69	3108	0.33	ug/L #	53
68) 1,1,2-Trichloroethane	8.584	97	3094m	0.45	ug/L	
71) Tetrachloroethene	8.730	164	4012	0.54	ug/L #	70
72) 2-Hexanone	8.895	43	2914	0.60	ug/L #	61
73) 1,3-Dichloropropane	8.767	76	5633	0.53	ug/L #	73
74) Dibromochloromethane	8.999	129	3059	0.36	ug/L	89
75) N-Butyl Acetate	9.054	43	5468	0.45	ug/L	92
76) 1,2-Dibromoethane	9.102	107	2901	0.45	ug/L	95
77) 3-Chlorobenzotrifluoride	9.627	180	6136	0.42	ug/L	90
78) Chlorobenzene	9.608	112	12653	0.51	ug/L	88
79) 4-Chlorobenzotrifluoride	9.681	180	5207	0.40	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.694	131	3571	0.38	ug/L	83
81) Ethylbenzene	9.730	106	6220	0.47	ug/L #	64
82) (m+p)Xylene	9.846	106	14823	0.93	ug/L #	85
83) o-Xylene	10.206	106	7187	0.45	ug/L	89
84) Styrene	10.218	104	10944	0.40	ug/L	89
85) Bromoform	10.376	173	1896	0.36	ug/L	81
86) 2-Chlorobenzotrifluoride	10.456	180	5739	0.40	ug/L	86
87) Isopropylbenzene	10.547	105	16549	0.42	ug/L	88
88) Cyclohexanone	10.608	55	3511	6.77	ug/L	97
89) trans-1,4-Dichloro-2-B...	10.852	53	1502	0.56	ug/L #	43
91) 1,1,2,2-Tetrachloroethane	10.815	83	3178	0.42	ug/L	93
92) Bromobenzene	10.797	156	5685	0.54	ug/L #	76
93) 1,2,3-Trichloropropane	10.852	110	1251m	0.59	ug/L	
94) n-Propylbenzene	10.907	91	20408	0.47	ug/L	98
95) 2-Chlorotoluene	10.974	91	12440	0.45	ug/L	91

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8252.D

Acq On : 6 May 2015 4:31 pm

Operator : F. NAEGLER

Sample : 0.5 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 07 09:13:00 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

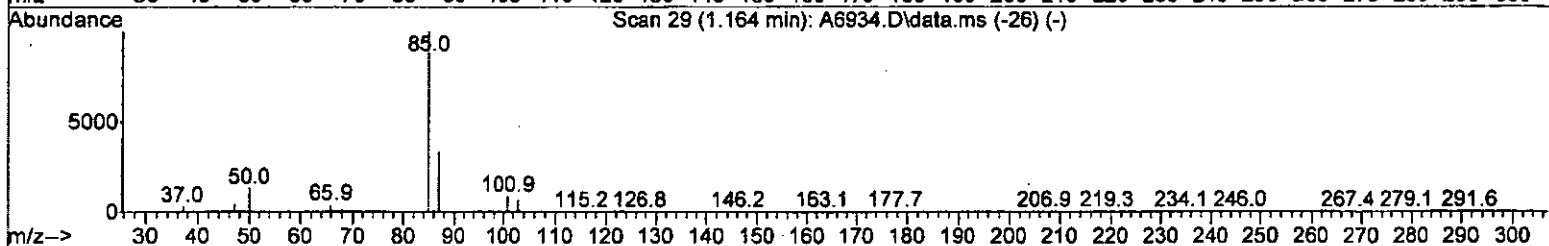
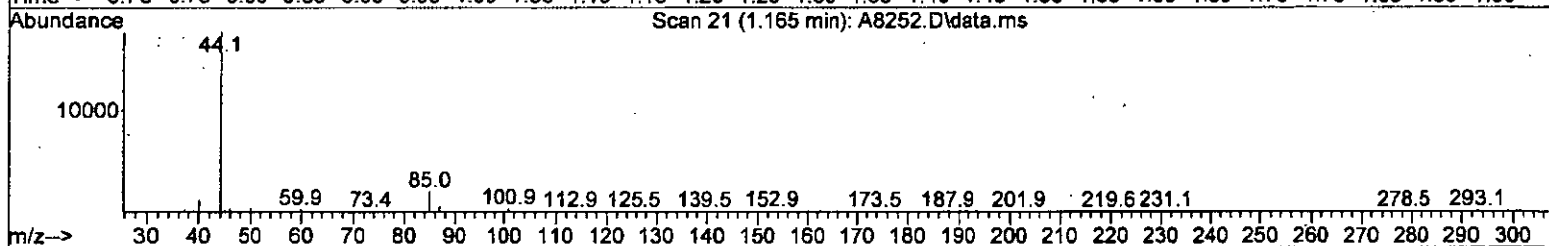
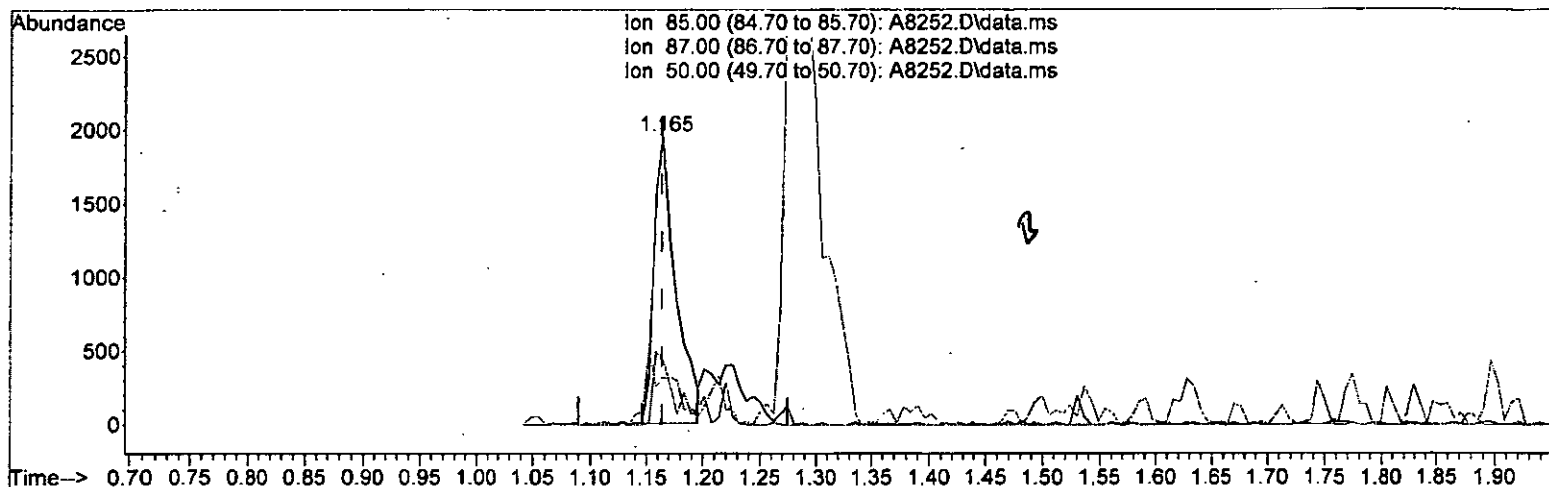
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 3-Chlorotoluene	11.029	91	14338	0.49	ug/L	89
97) 4-Chlorotoluene	11.065	91	16493	0.51	ug/L	97
98) 1,3,5-Trimethylbenzene	11.065	105	14465	0.45	ug/L	83
99) tert-Butylbenzene	11.340	119	12929	0.46	ug/L	95
100) 1,2,4-Trimethylbenzene	11.376	105	14861	0.44	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.443	214	4529	0.43	ug/L	82
102) sec-Butylbenzene	11.523	105	17110	0.45	ug/L	84
103) p-Isopropyltoluene	11.651	119	15936	0.47	ug/L	95
104) 1,3-Dclbenz	11.602	146	11824	0.56	ug/L	90
105) 1,4-Dclbenz	11.681	146	12228	0.57	ug/L	94
106) 2,4-Dichlorobenzotrifl...	11.730	214	4342	0.45	ug/L	88
107) 2,5-Dichlorobenzotrifl...	11.779	214	5311	0.49	ug/L	90
108) n-Butylbenzene	11.980	91	13973	0.47	ug/L	93
109) 1,2-Dclbenz	11.986	146	9879	0.51	ug/L	89
110) 1,2-Dibromo-3-chloropr...	12.608	157	638	0.42	ug/L #	66
111) Trielution Dichlorotol...	12.736	125	23060	1.34	ug/L	90
112) 1,3,5-Trichlorobenzene	12.785	180	7544	0.52	ug/L	90
113) Coelution Dichlorotoluene	13.059	125	17649	0.99	ug/L	92
114) 1,2,4-Tclbenzene	13.266	180	5964	0.49	ug/L	95
115) Hexachlorobt	13.406	225	2963	0.54	ug/L	89
116) Naphthalen	13.461	128	11384	0.53	ug/L	97
117) 1,2,3-Tclbenzene	13.650	180	4813	0.53	ug/L	84
118) 2,4,5-Trichlorotoluene	14.235	159	3021m	0.51	ug/L	
119) 2,3,6-Trichlorotoluene	14.321	159	3038m	0.60	ug/L	

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.001) 0.29 ug/L

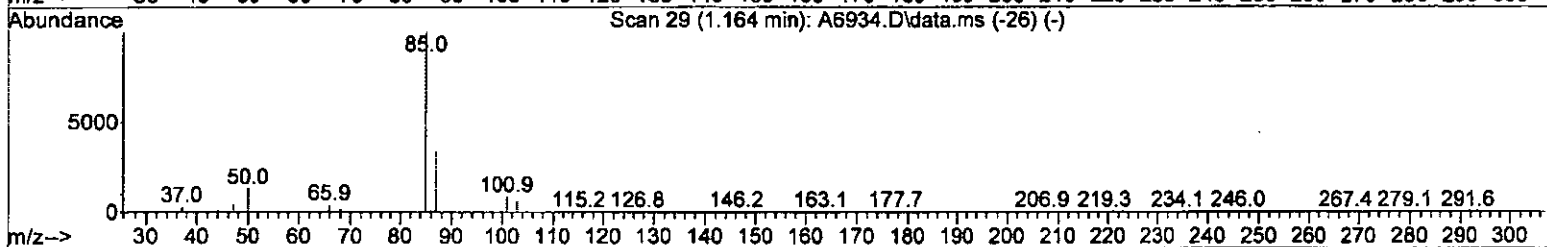
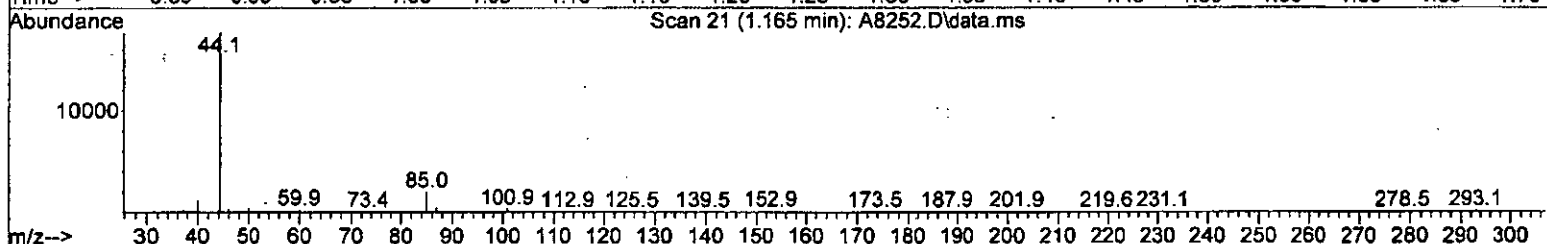
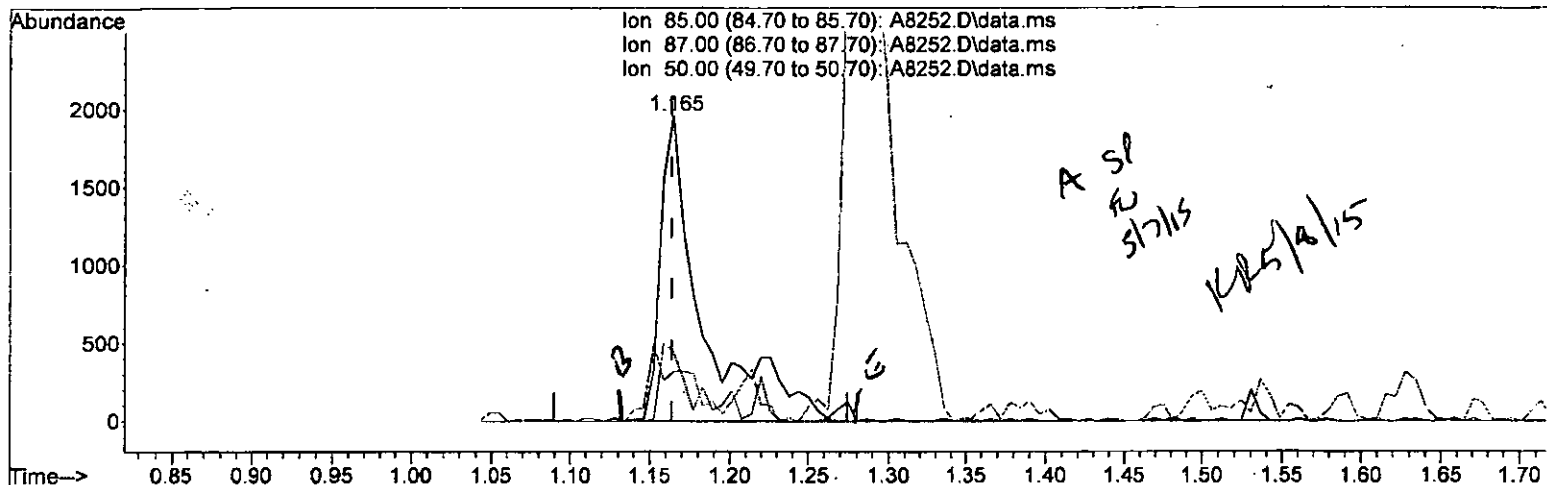
response 2579

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	22.66
50.00	15.00	16.23
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.001) 0.42 ug/L m

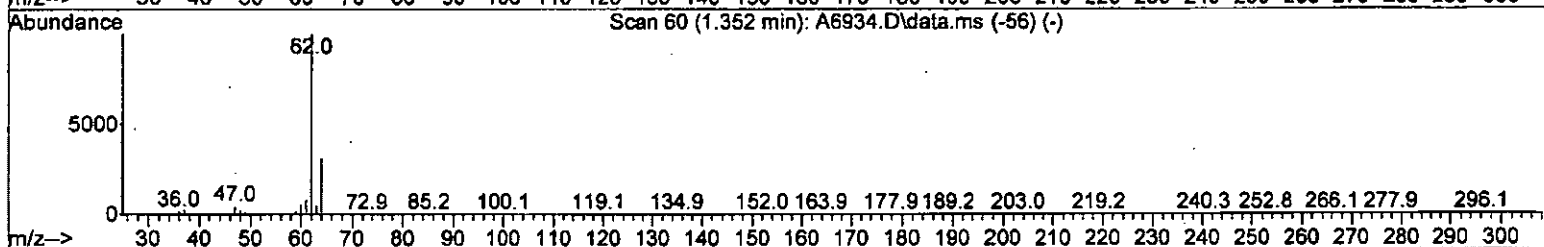
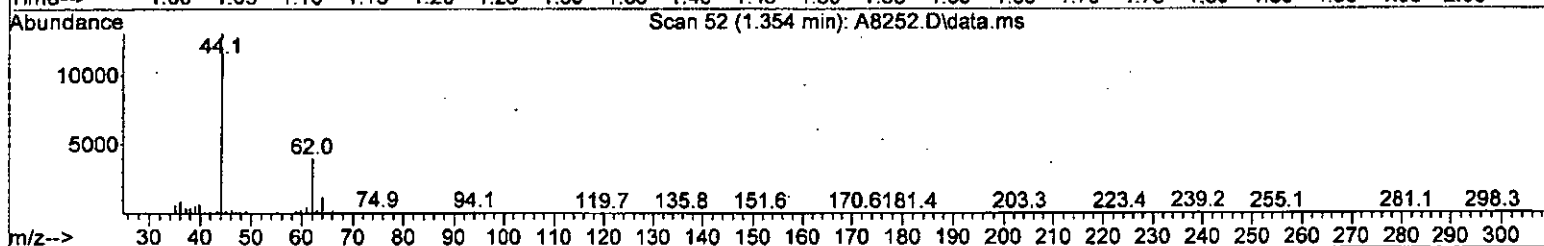
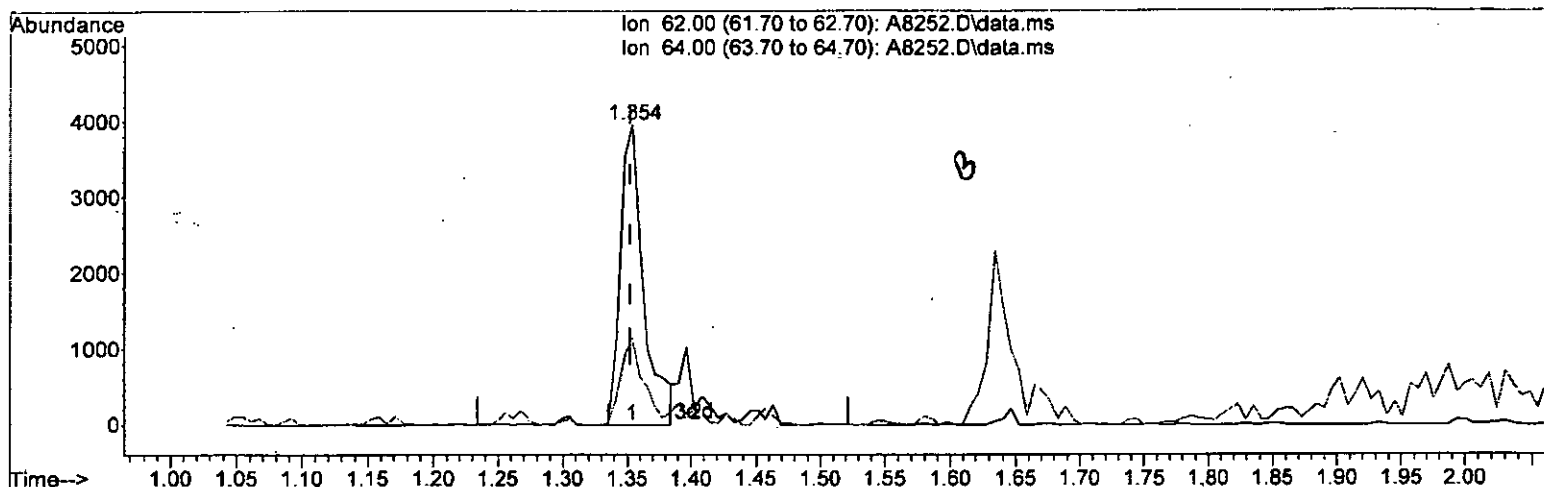
response 3658

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	22.66
50.00	15.00	16.23
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(4) Vinyl Chloride (P)

1.354min (+0.002) 0.49 ug/L

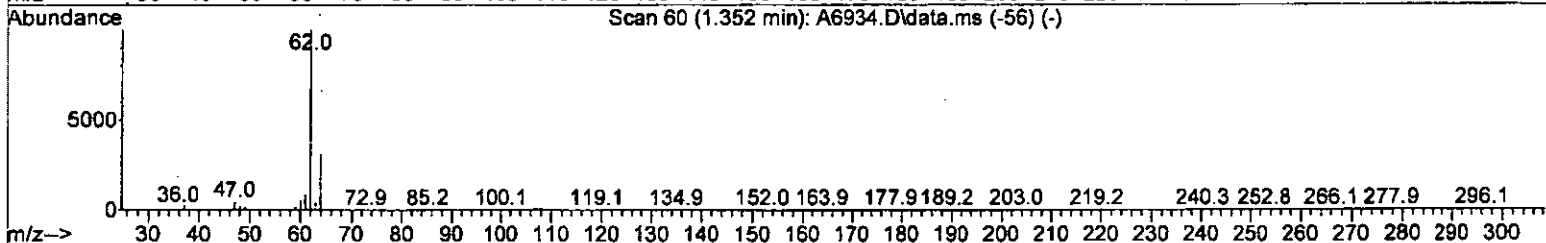
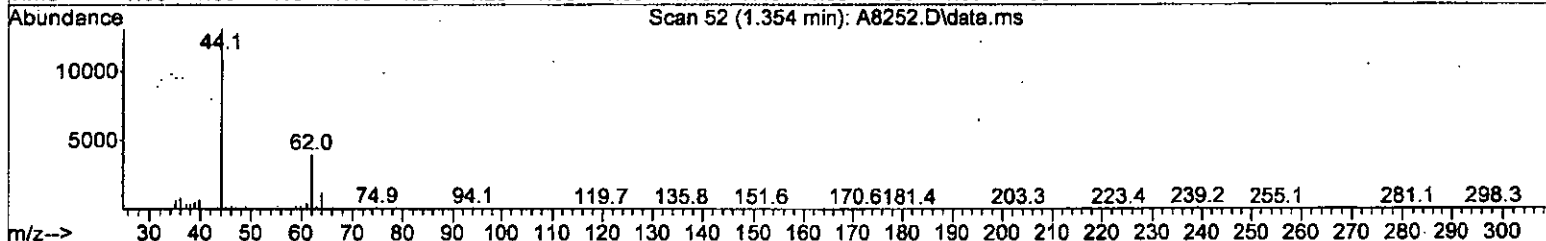
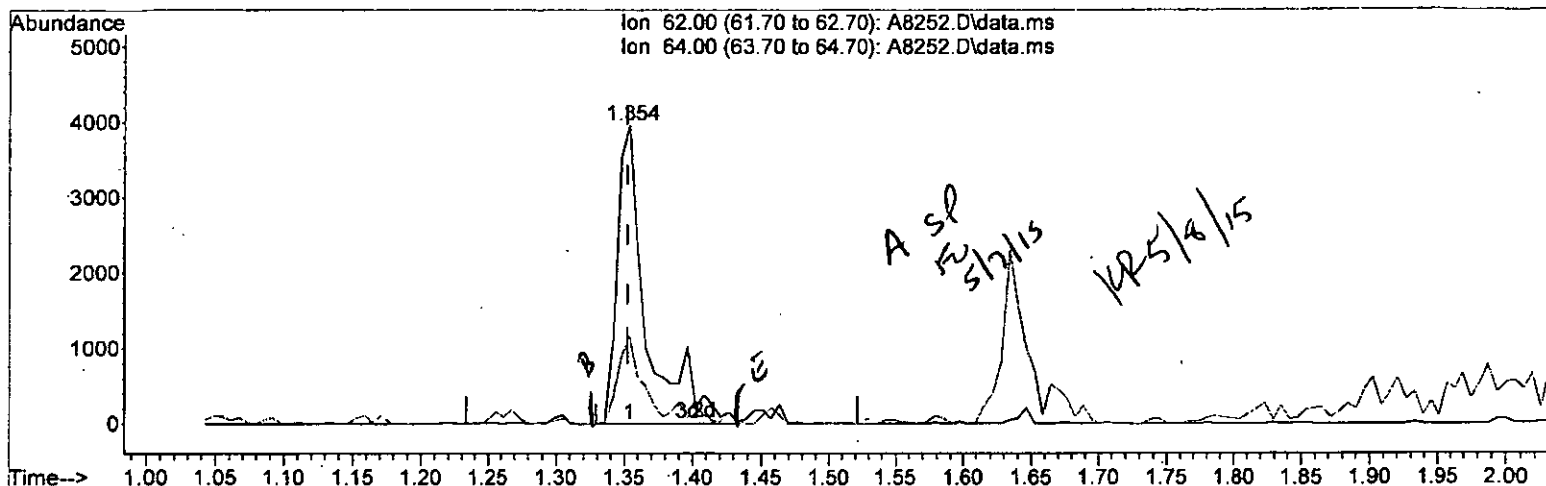
response 5008

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	29.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(4) Vinyl Chloride (P)

1.354min (+0.002) 0.59 ug/L m

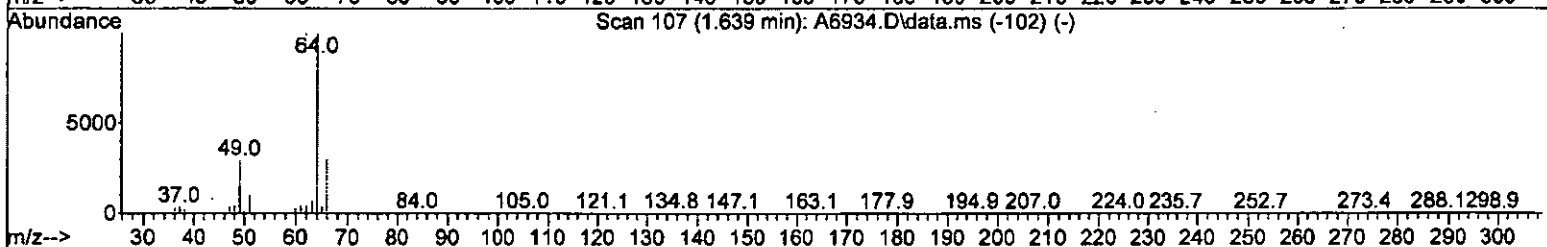
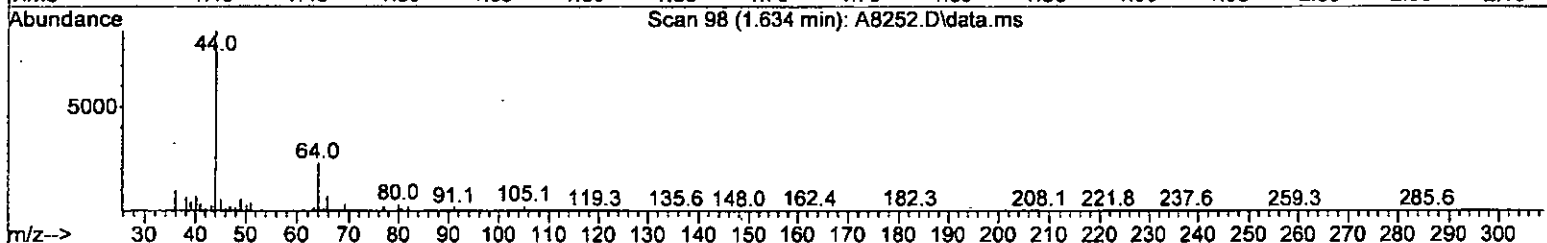
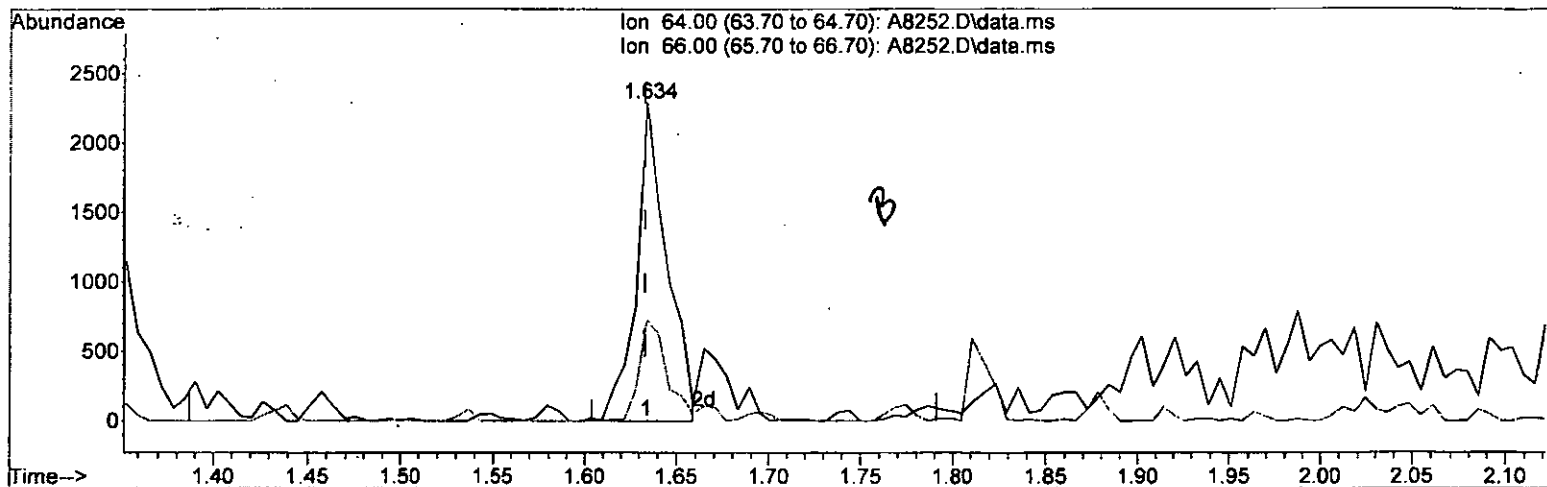
response 5977

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	29.02
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(6) Chloroethane (P)

1.634min (+0.001) 0.45 ug/L

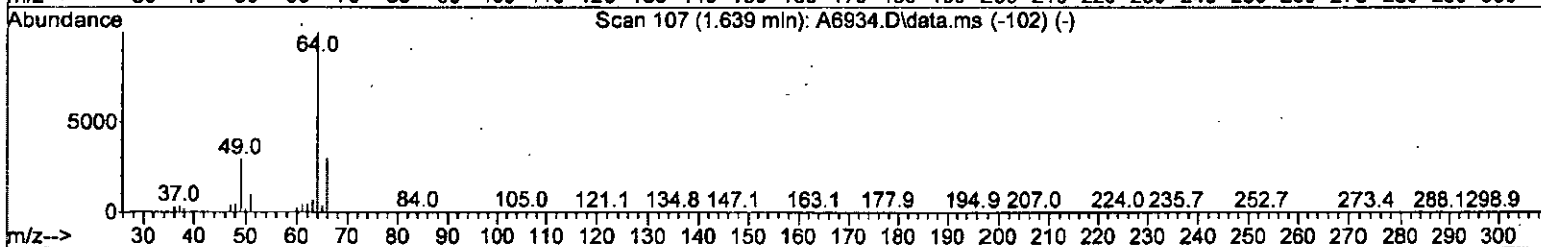
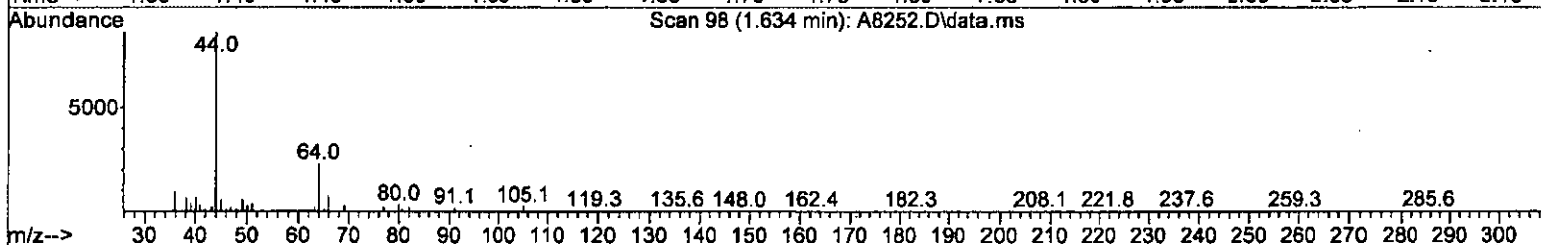
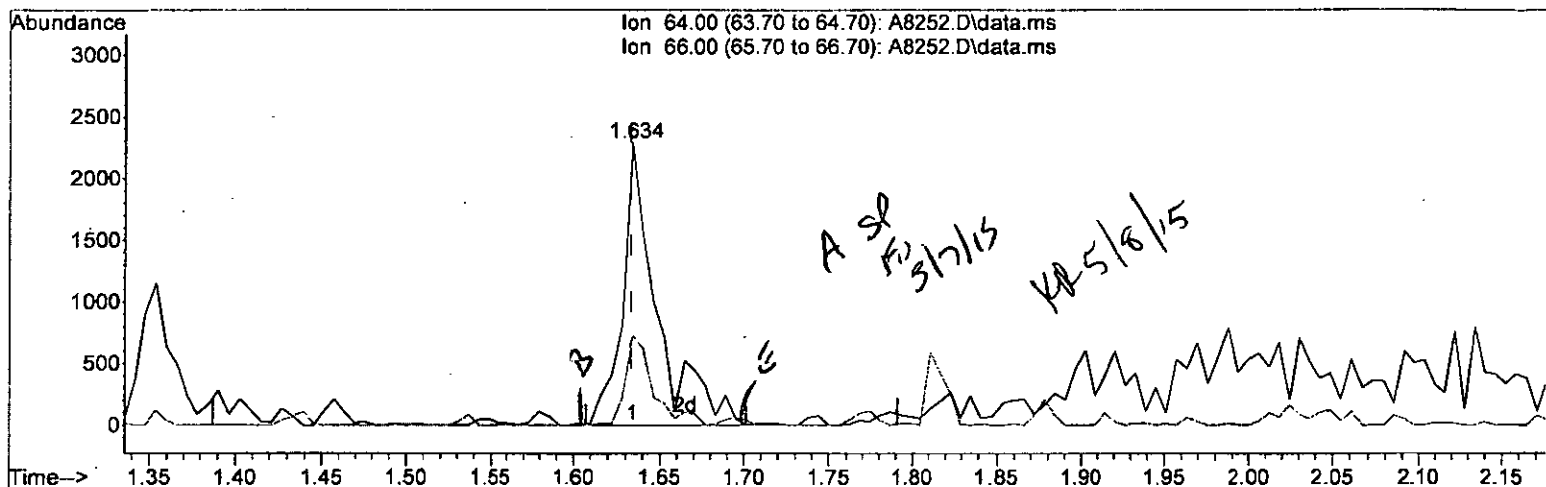
response 2600

Ion	Exp%	Act%
64.00	100	100
66.00	33.00	31.61
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(6) Chloroethane (P)

1.634min (+0.001) 0.55 ug/L m

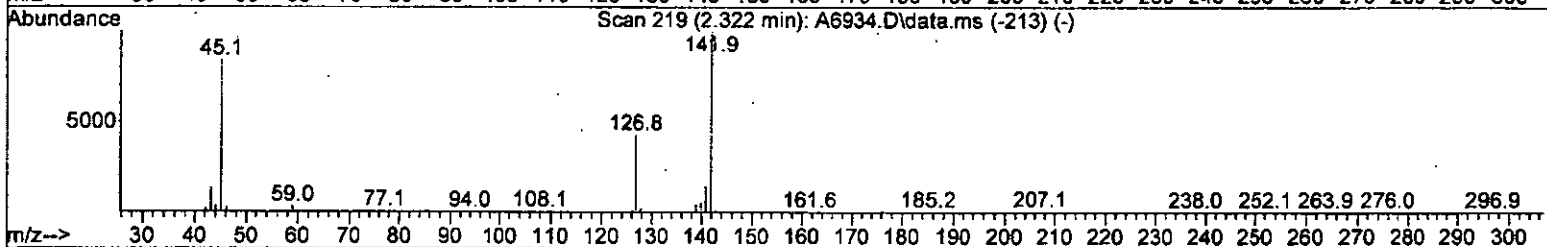
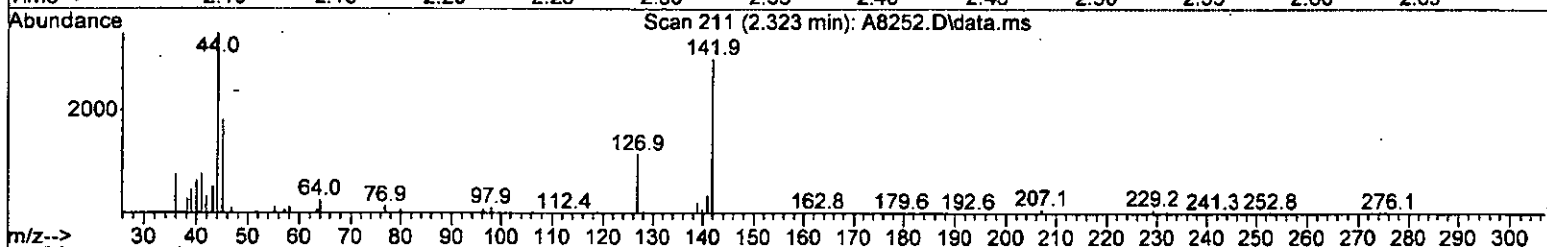
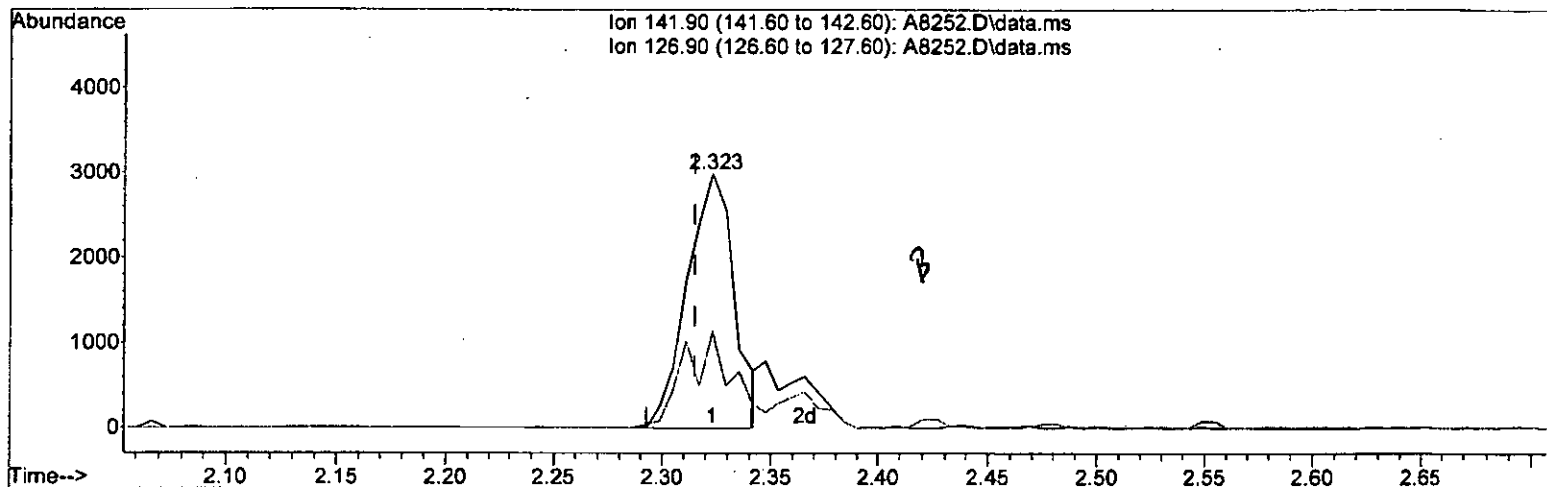
response 3200

Ion	Exp%	Act%
64.00	100	100
66.00	33.00	31.61
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(17) Iodomethane

2.323min (+0.008) 0.94 ug/L

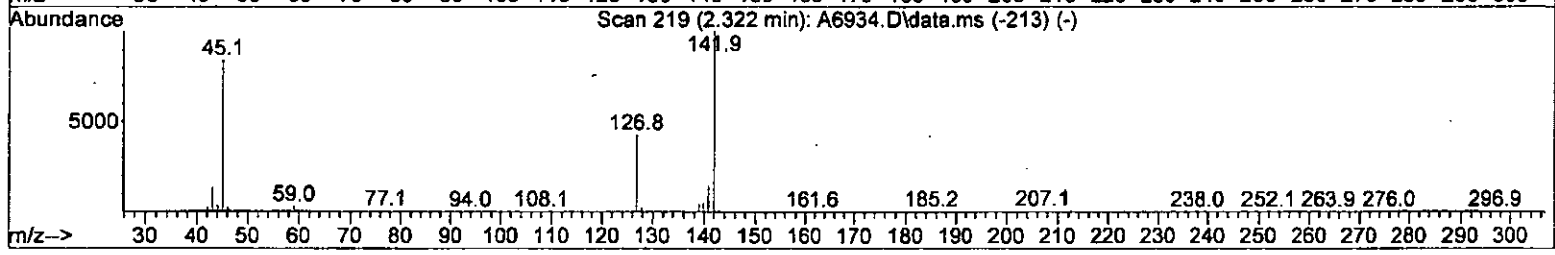
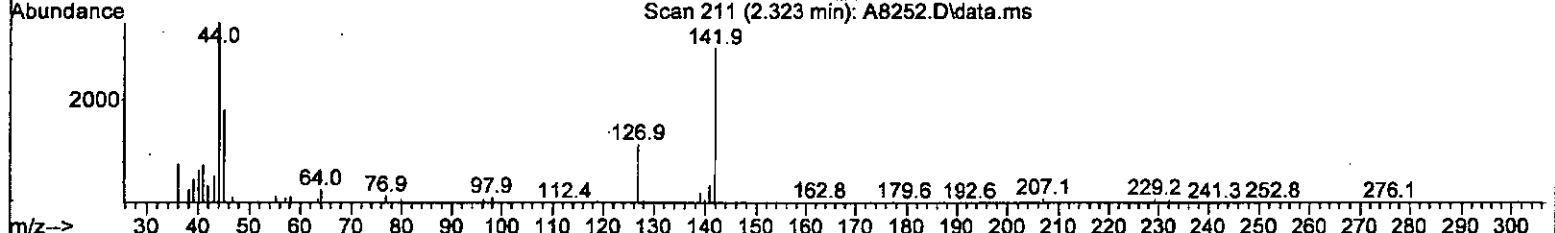
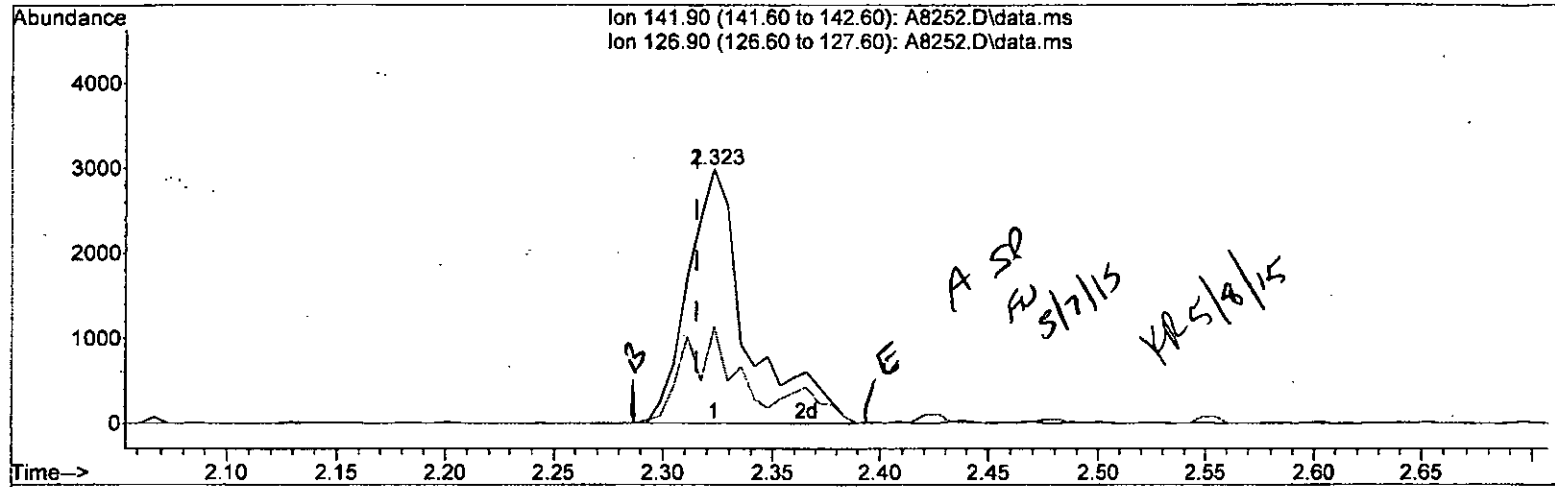
response 4464

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	37.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8252.D
Acq On : 6 May 2015 4:31 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



TIC: A8252.D\data.ms

(17) Iodomethane

2.323min (+0.008) 1.18 ug/L m

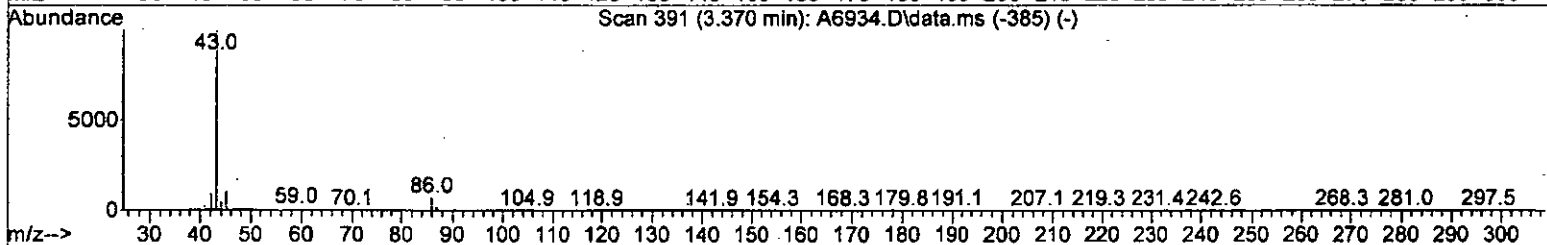
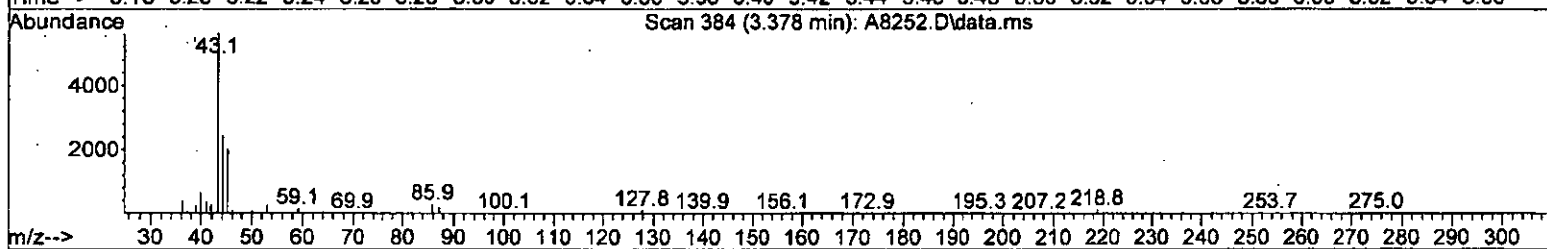
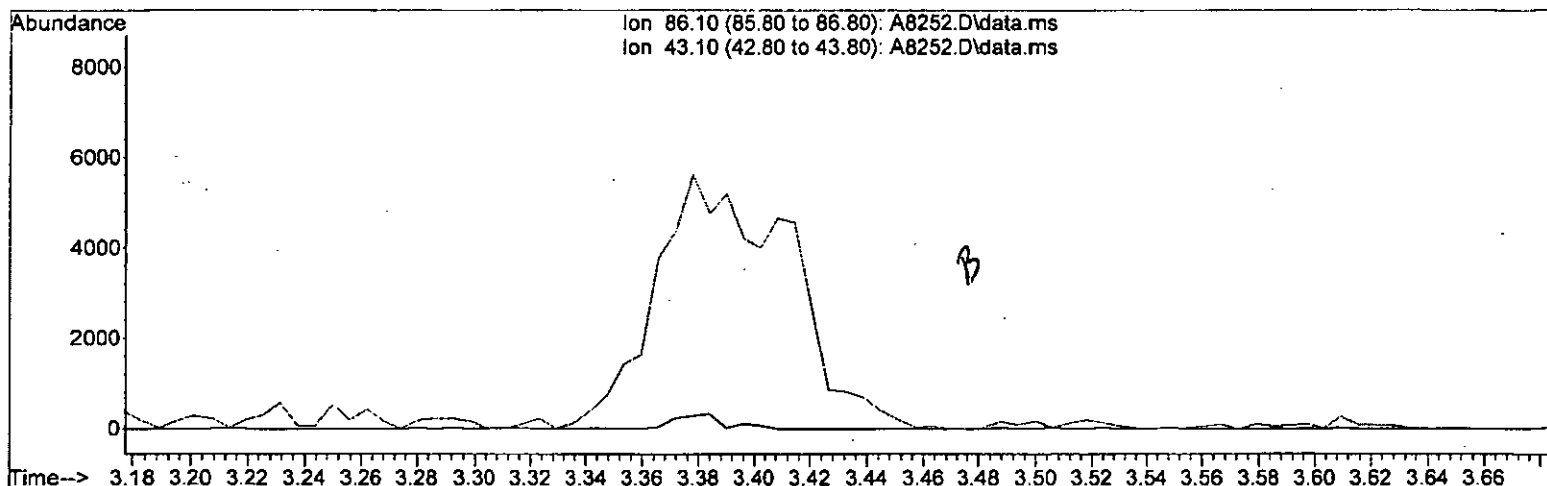
response 5604

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	37.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(28) Vinyl Acetate

3.377min (-3.377) 0.00 ug/L

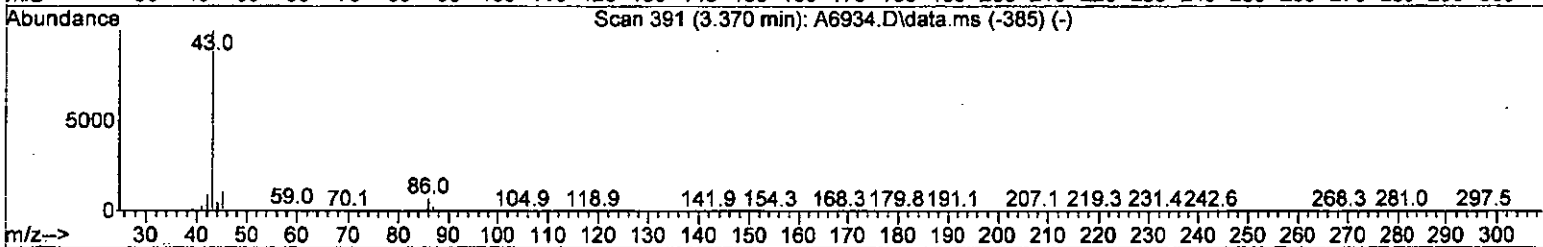
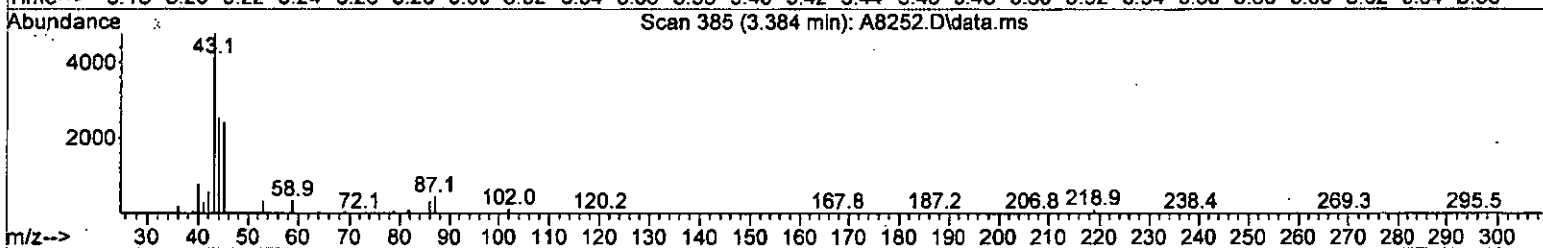
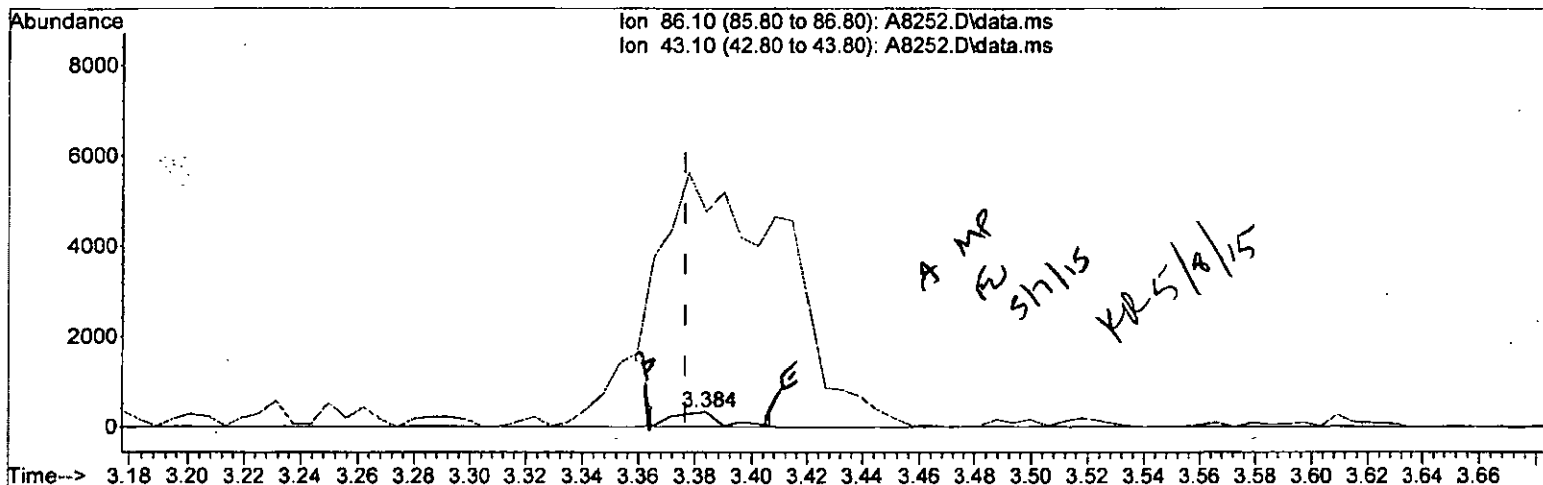
response 0

Ion	Exp%	Act%
86.10	100	0.00
43.10	1730.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8252.D
Acq On : 6 May 2015 4:31 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



TIC: A8252.D\data.ms

(28) Vinyl Acetate

3.384min (+0.007) 0.26 ug/L m

response 375

Ion	Exp%	Act%
86.10	100	100
43.10	1730.10	1445.29#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8252.D

Acq On : 6 May 2015 4:31 pm

Operator : F. NAEGLER

Sample : 0.5 PPB STD

Misc :

ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

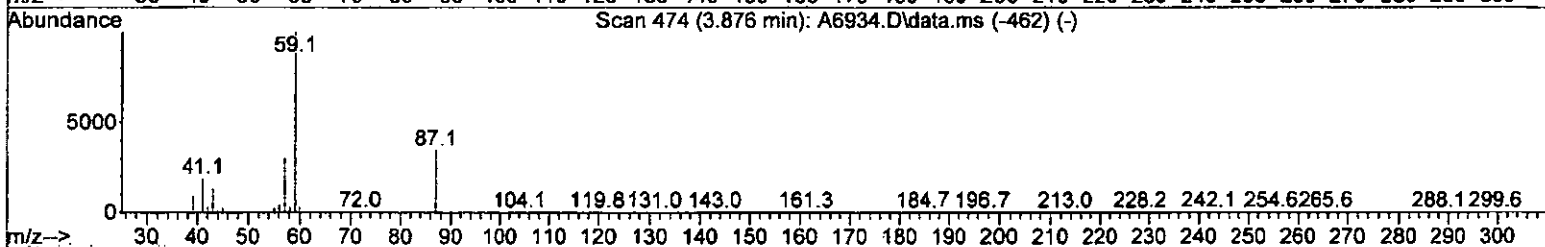
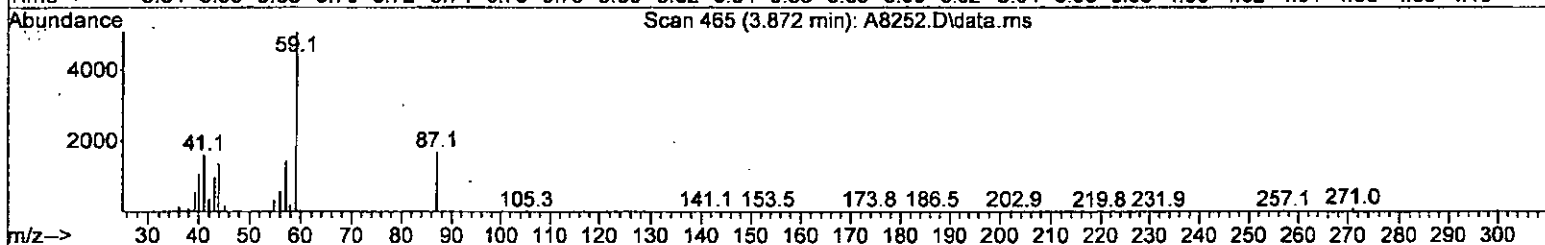
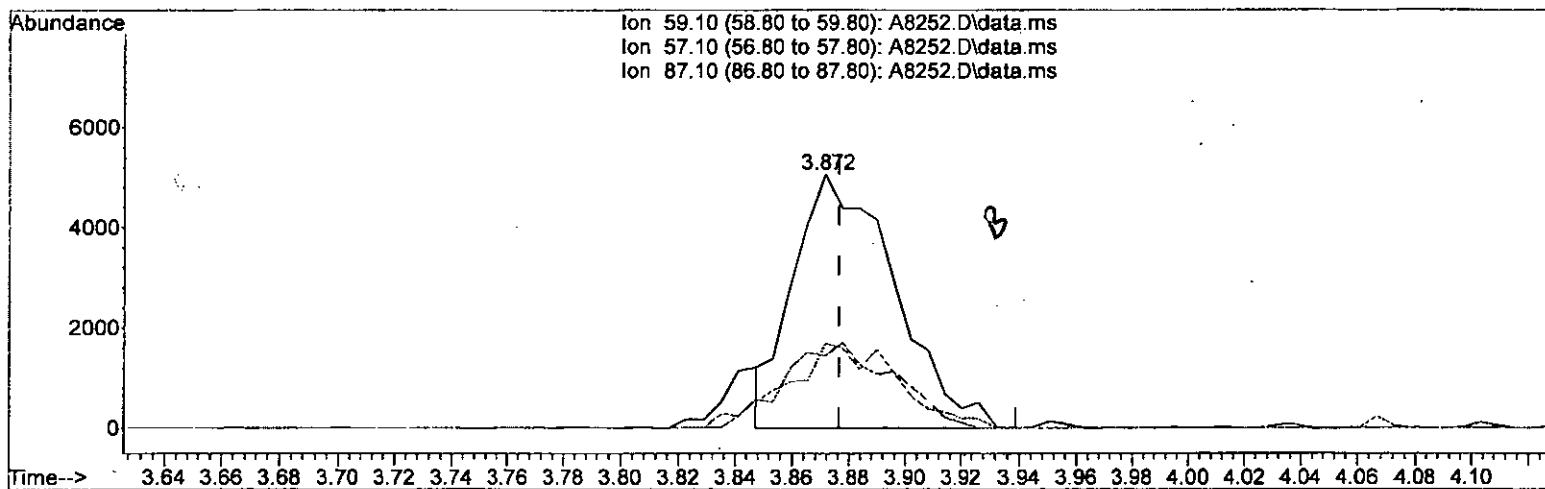
Quant Time: May 06 16:46:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8252.D\data.ms

(31) ETBE

3.872min (-0.005) 0.45 ug/L

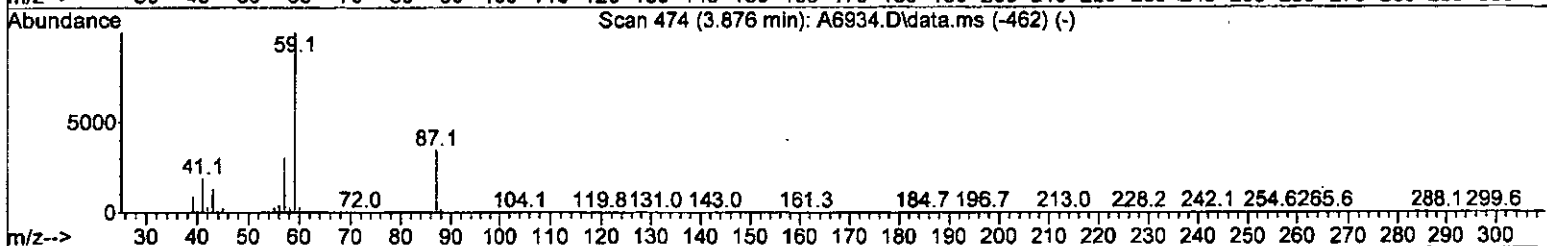
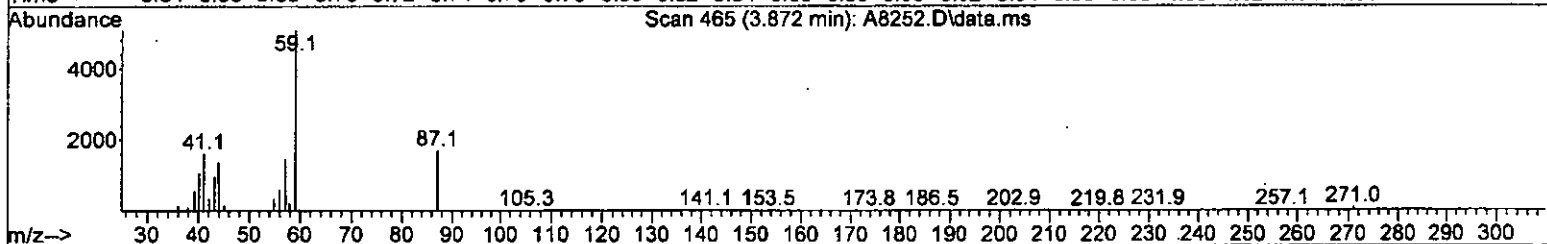
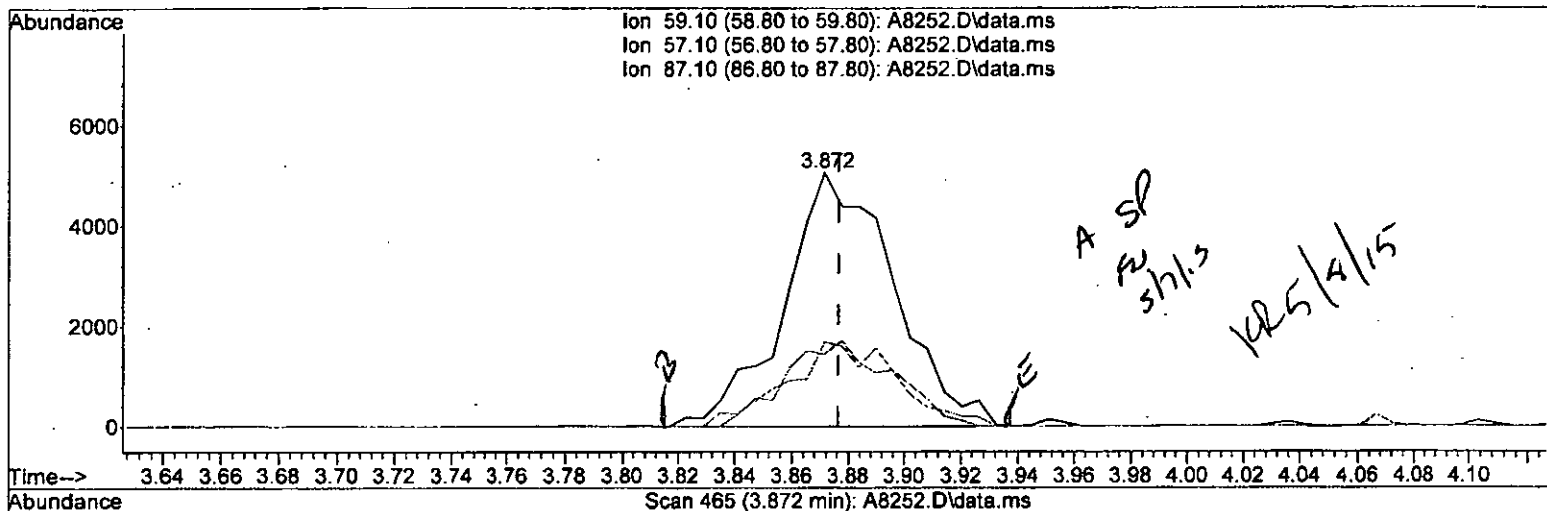
response 12454

Ion	Exp%	Act%
59.10	100	100
57.10	30.90	28.47
87.10	37.30	33.37
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(31) ETBE

3.872min (-0.005) 0.50 ug/L m

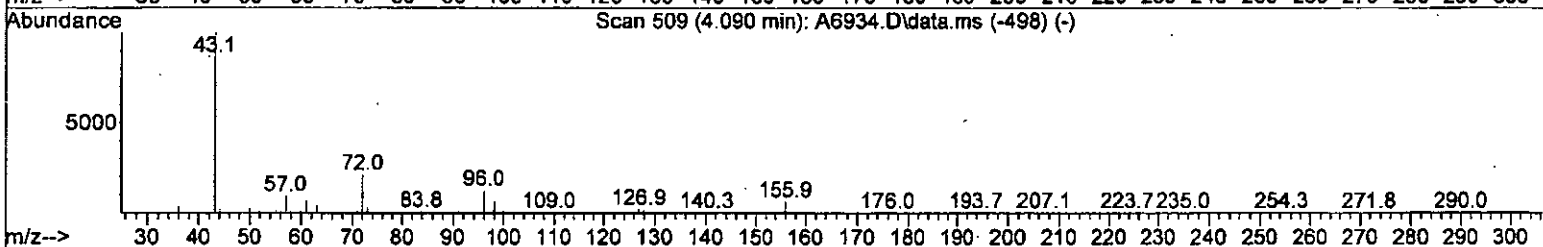
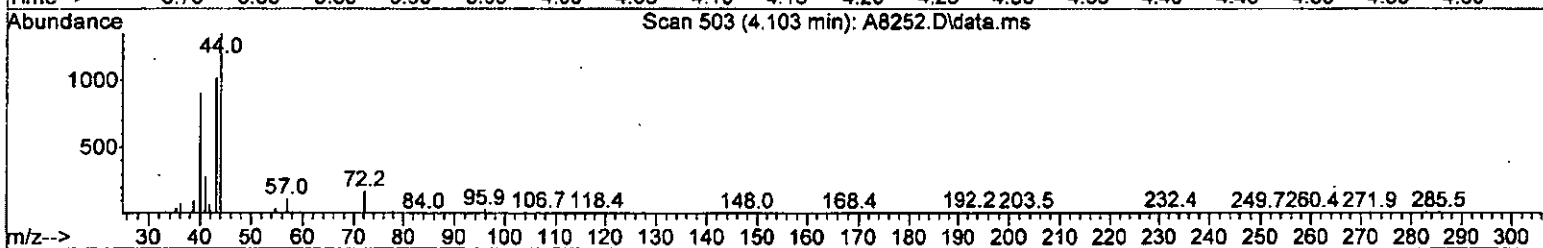
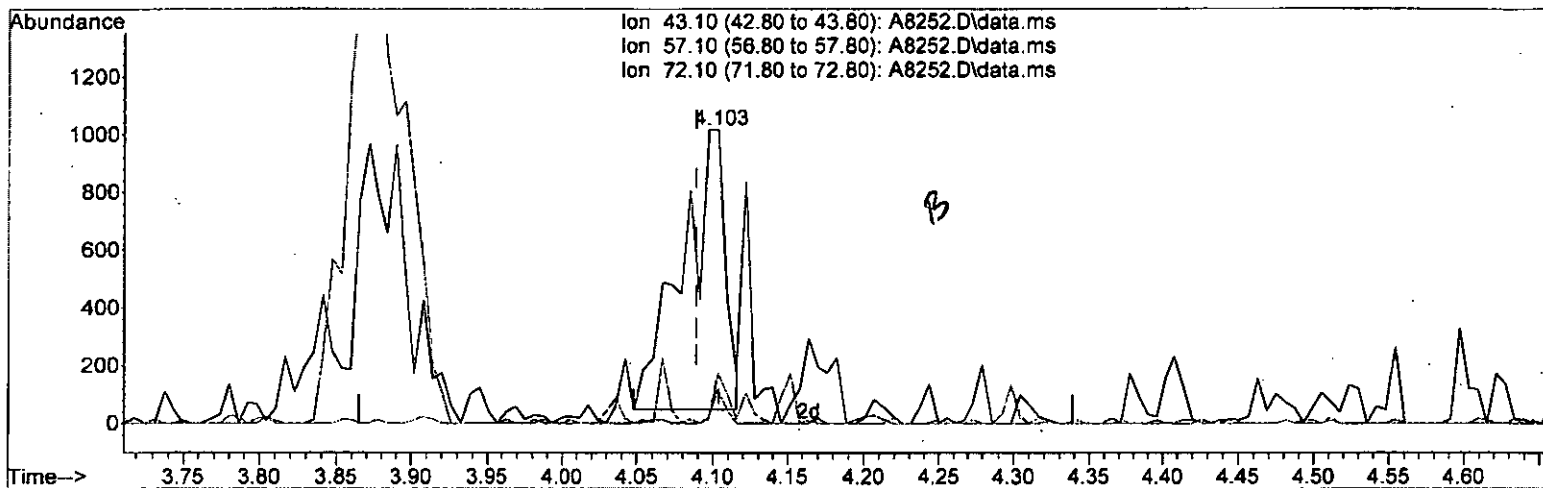
response 13622

Ion	Exp%	Act%
59.10	100	100
57.10	30.90	28.47
87.10	37.30	33.37
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(34) 2-Butanone (P)

4.103min (+0.014) 0.63 ug/L

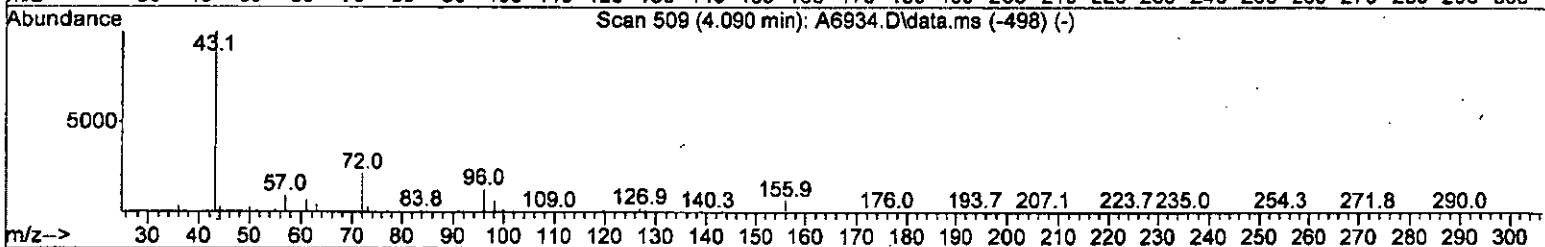
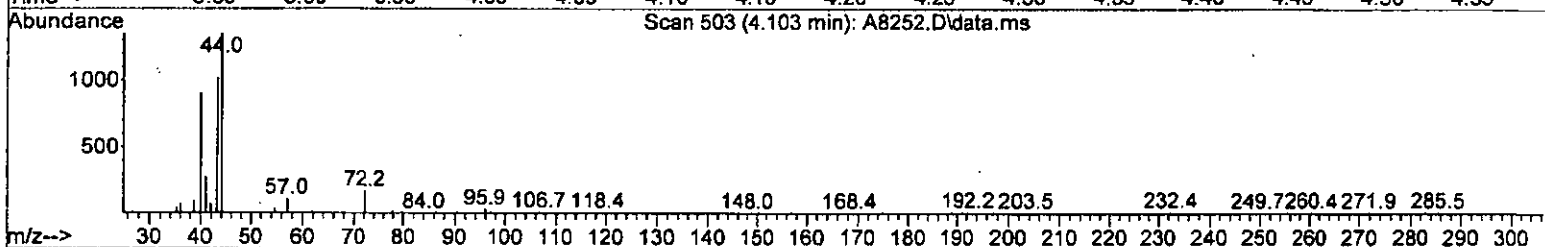
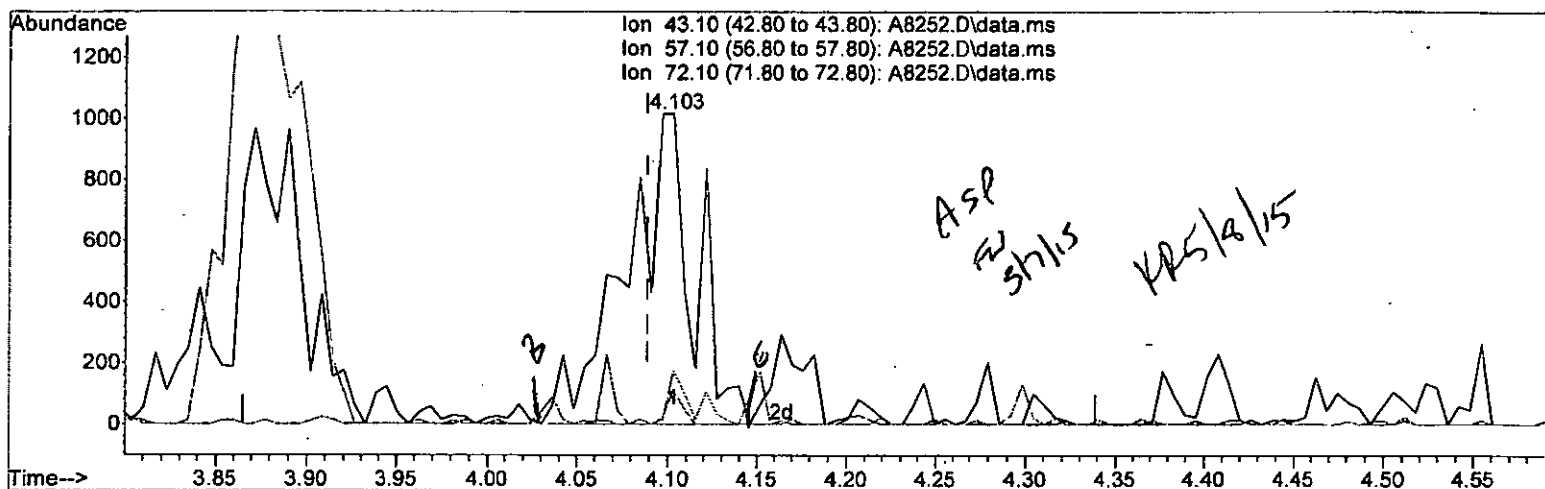
response 1889

Ion	Exp%	Act%
43.10	100	100
57.10	7.80	11.12
72.10	22.60	17.13
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(34) 2-Butanone (P)

4.103min (+0.014) 0.88 ug/L m

response 2628

Ion	Exp%	Act%
43.10	100	100
57.10	7.80	11.12
72.10	22.60	17.13
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8252.D

Acq On : 6 May 2015 4:31 pm

Operator : F. NAEGLER

Sample : 0.5 PPB STD

Misc :

ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

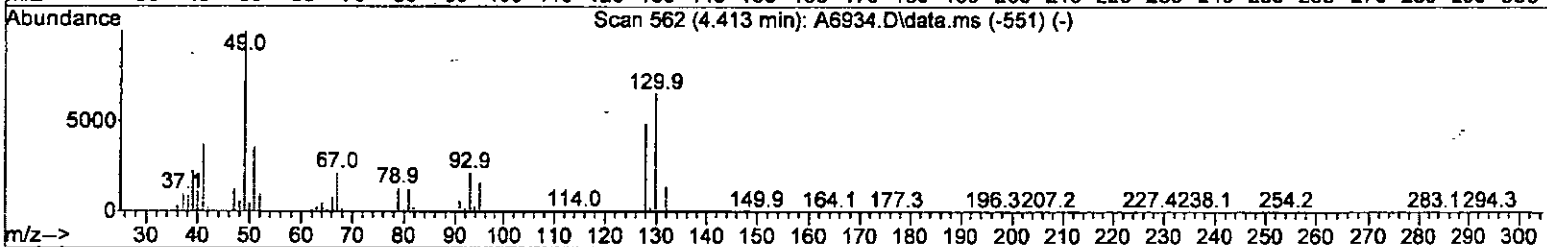
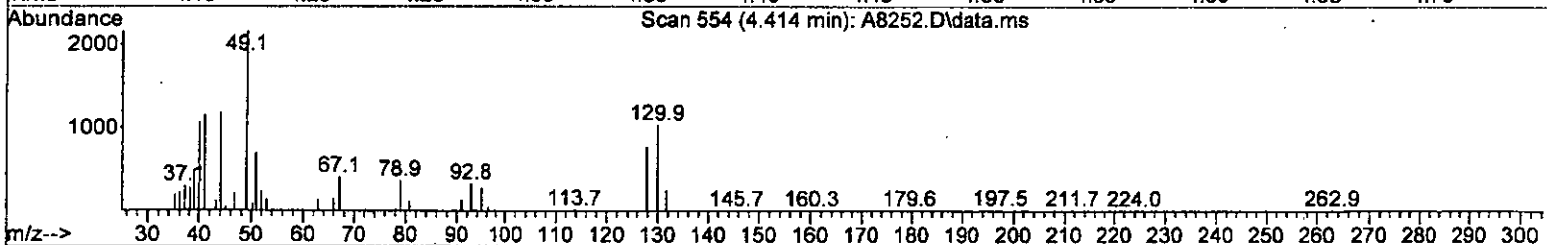
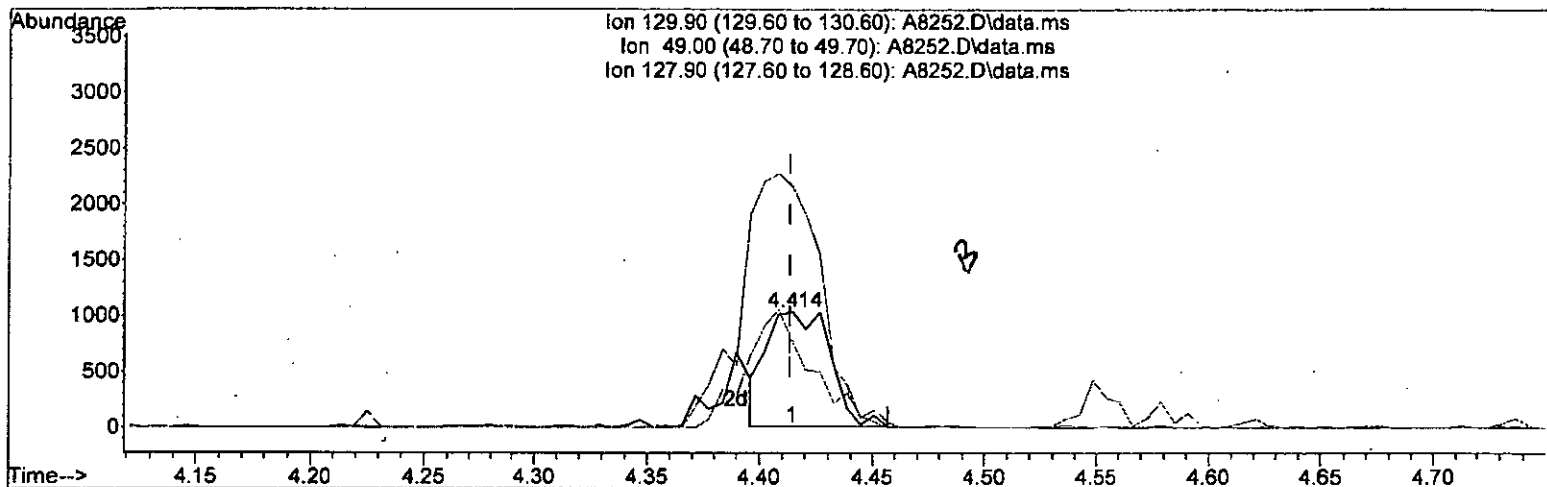
Quant Time: May 06 16:46:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8252.D\data.ms

(36) Bromochloromethane

4.414min (+0.001) 0.39 ug/L

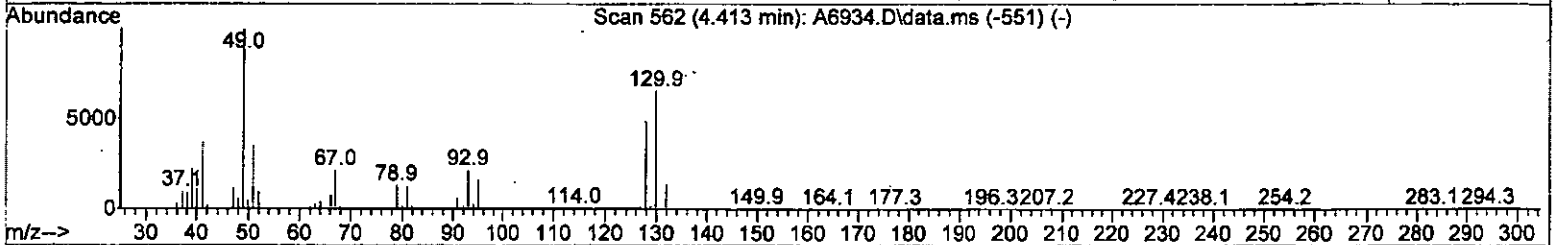
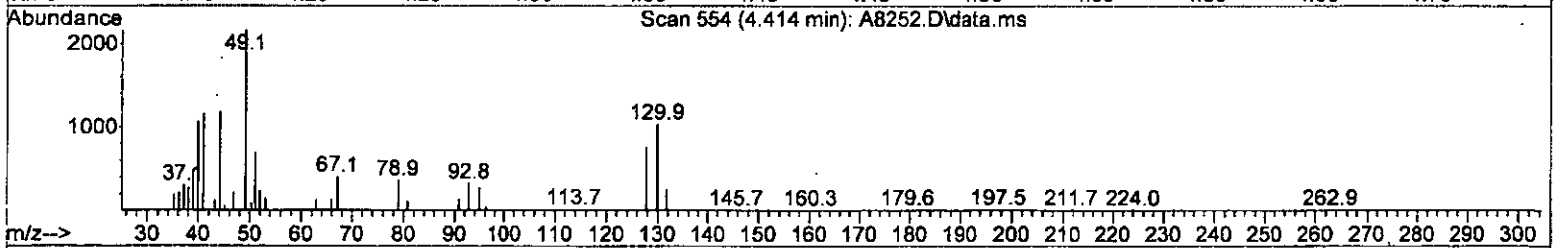
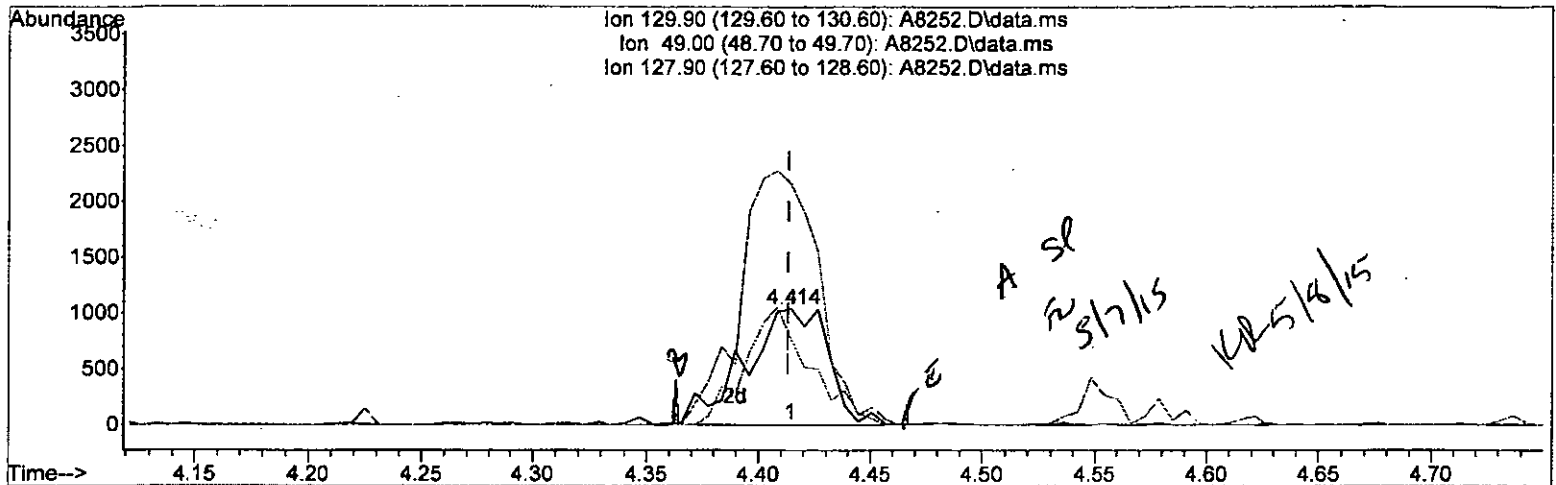
response 1976

Ion	Exp%	Act%
129.90	100	100
49.00	133.80	207.72#
127.90	75.20	74.13
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(36) Bromochloromethane

4.414min (+0.001) 0.53 ug/L m

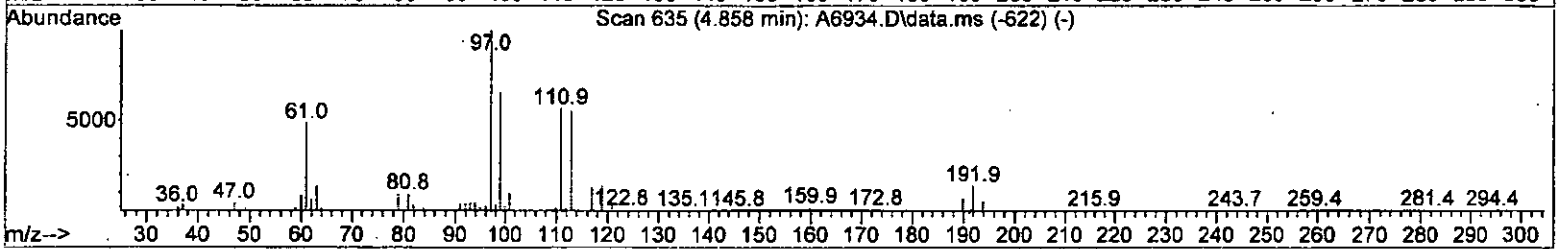
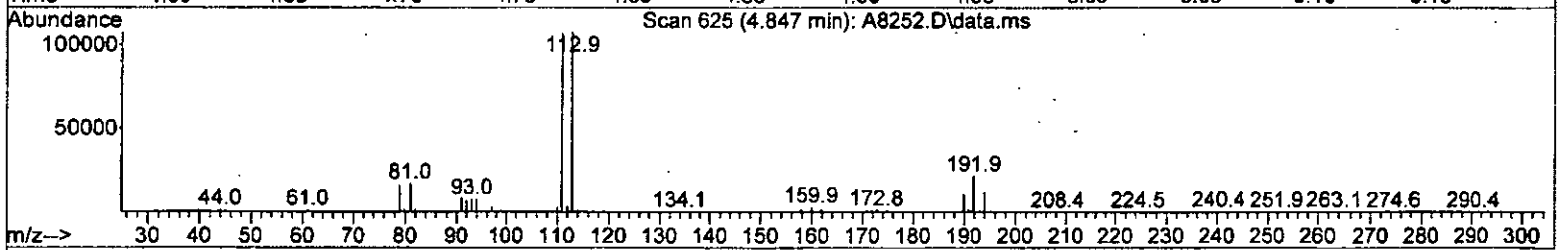
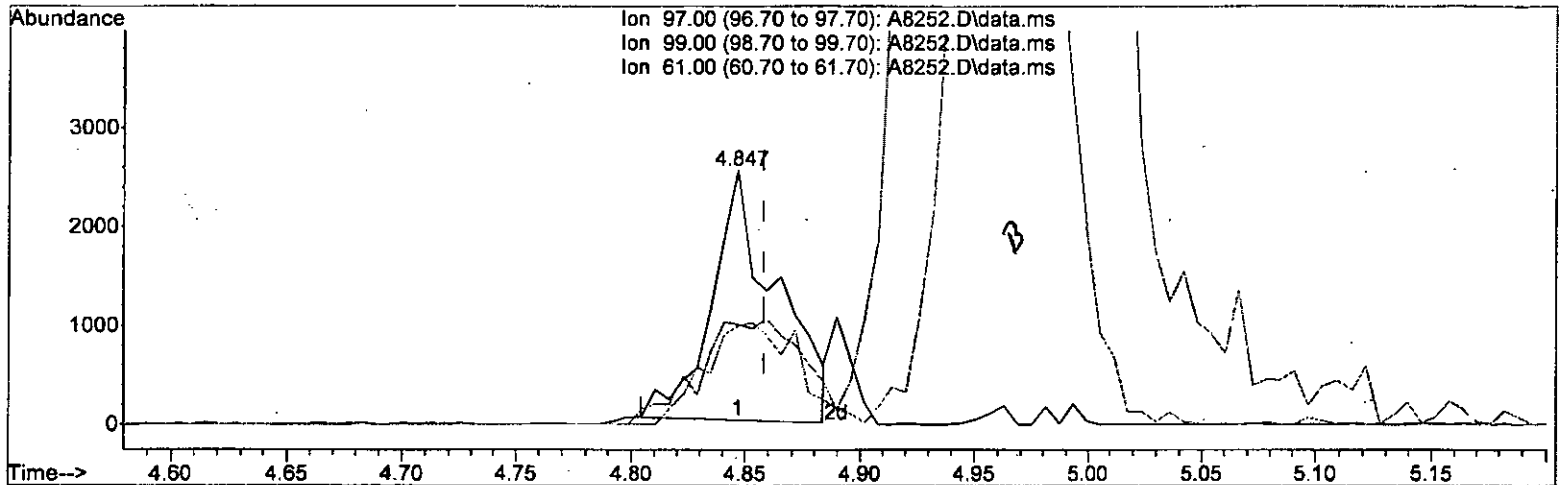
response 2673

Ion	Exp%	Act%
129.90	100	100
49.00	133.80	207.72#
127.90	75.20	74.13
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.847min (-0.011) 0.38 ug/L

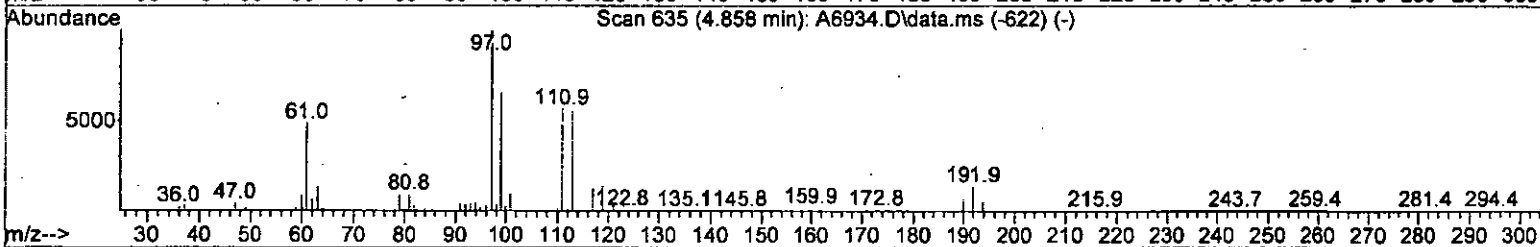
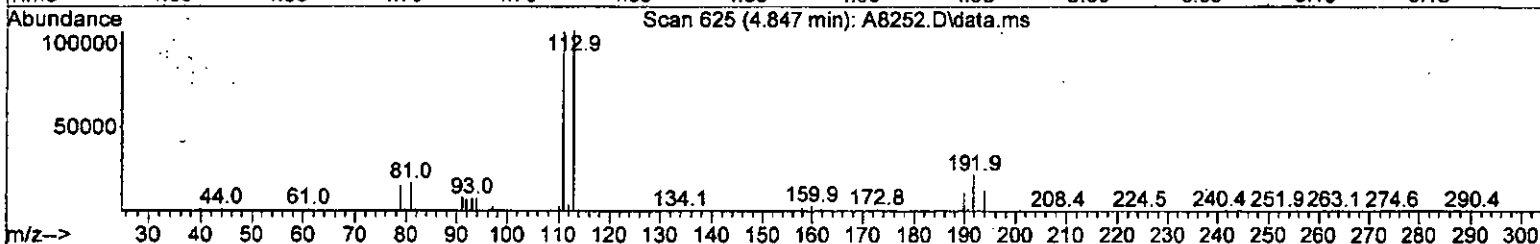
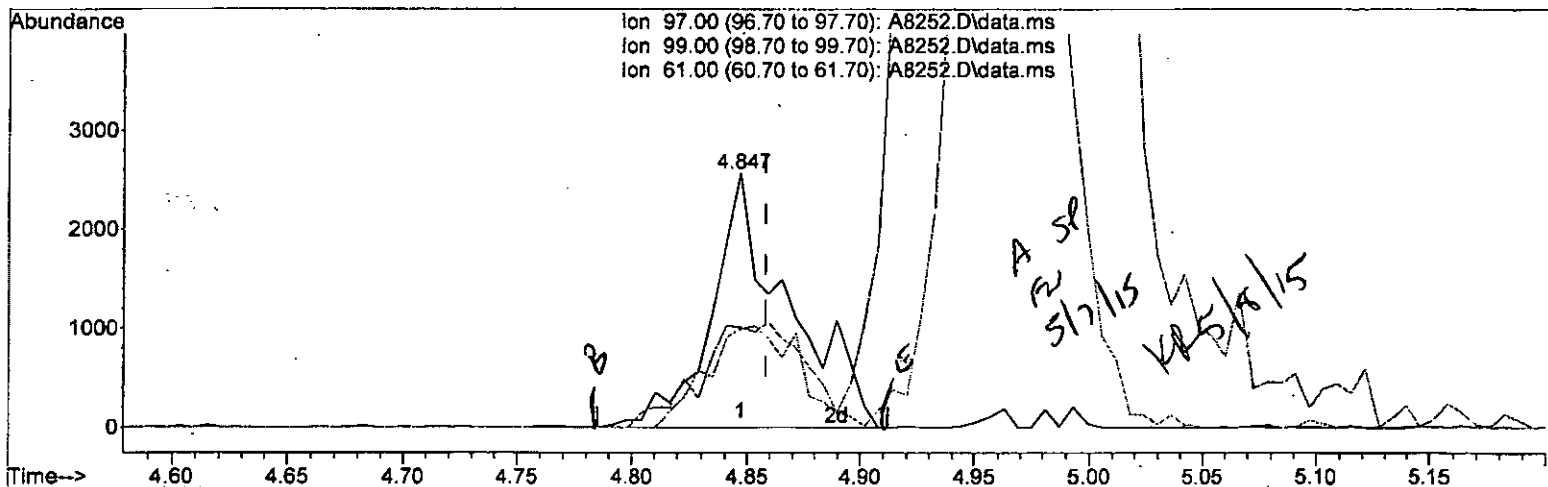
response 4964

Ion	Exp%	Act%
97.00	100	100
99.00	60.90	39.35#
61.00	45.20	38.61
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.847min (-0.011) 0.46 ug/L m

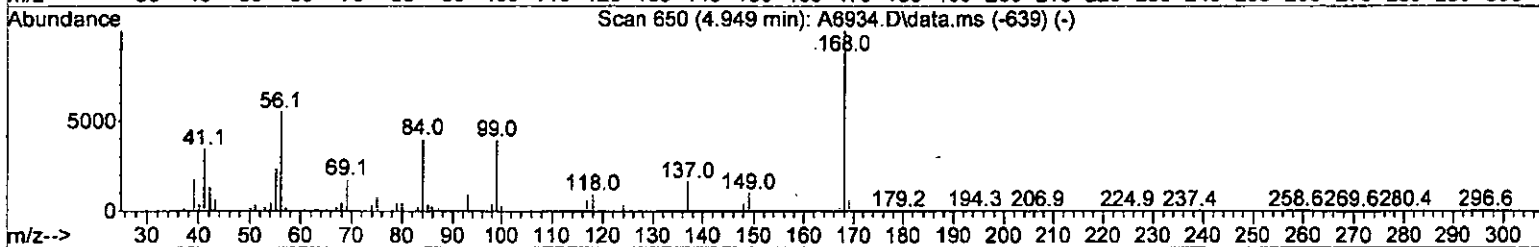
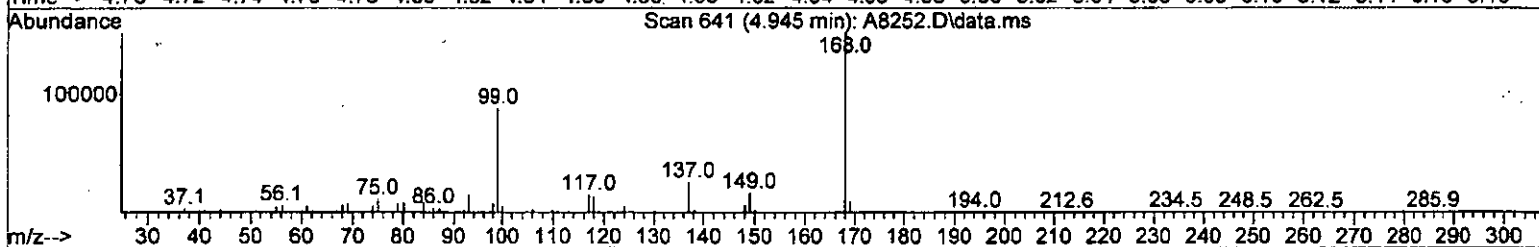
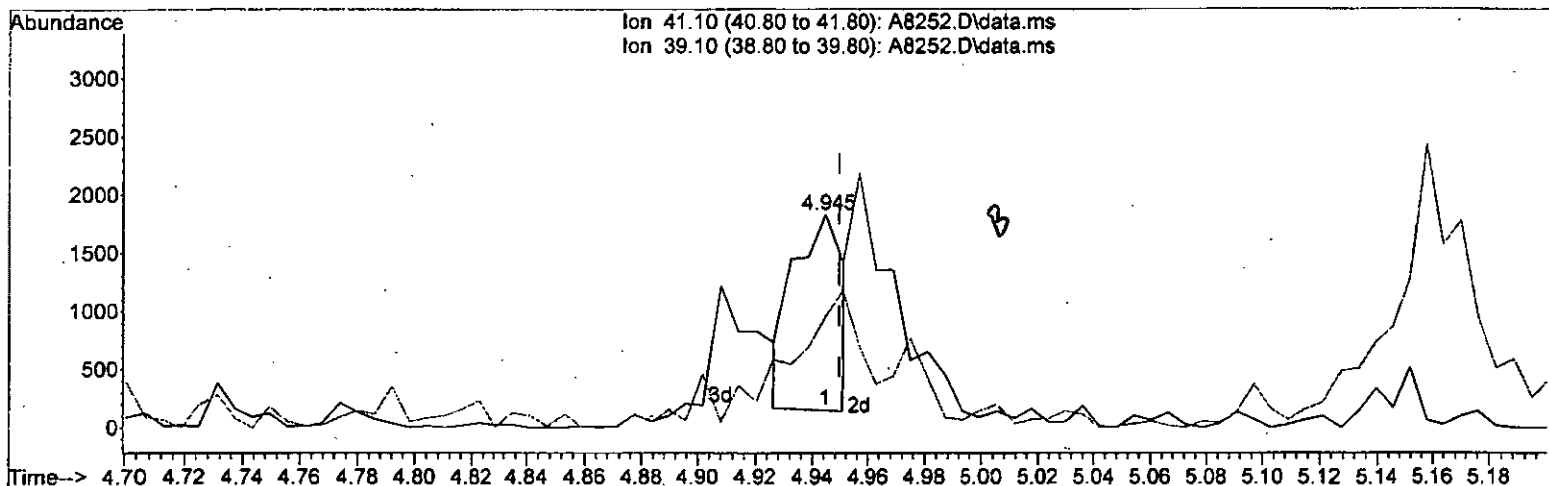
response 5954

Ion	Exp%	Act%
97.00	100	100
99.00	60.90	39.35#
61.00	45.20	38.61
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(42) Cyclohexane (P)

4.945min (-0.005) 0.19 ug/L

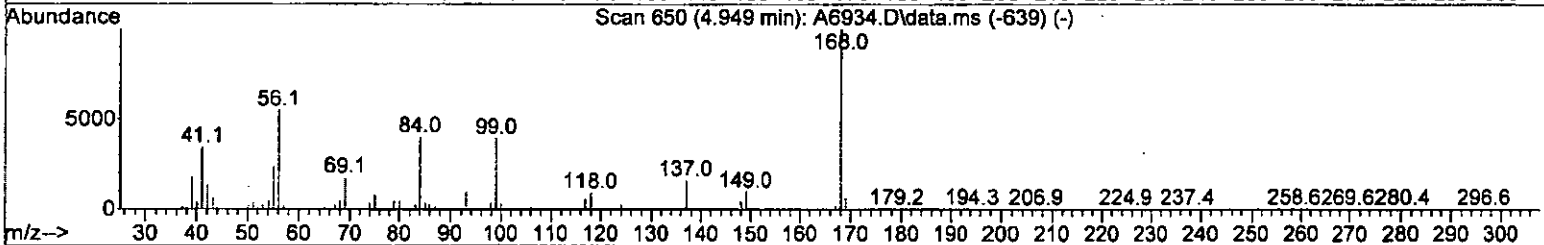
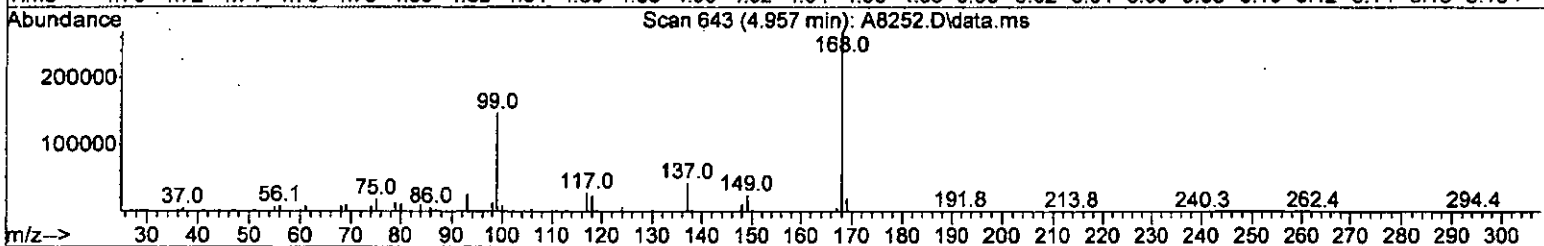
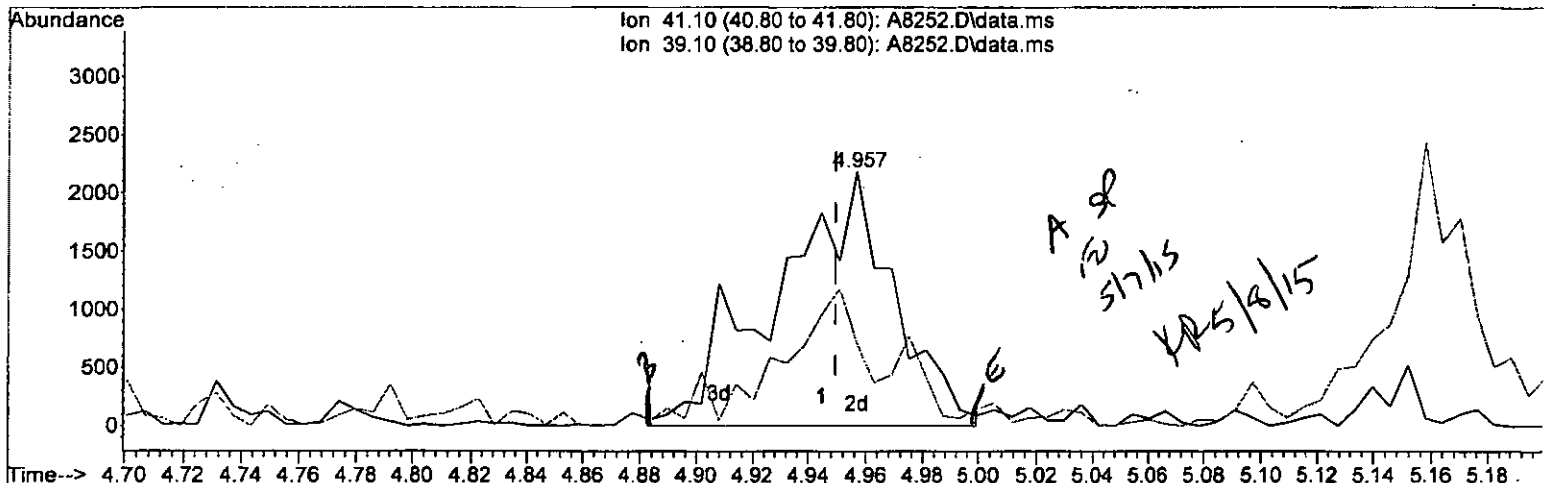
response 2030

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	52.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(42) Cyclohexane (P)

4.957min (+0.007) 0.57 ug/L m

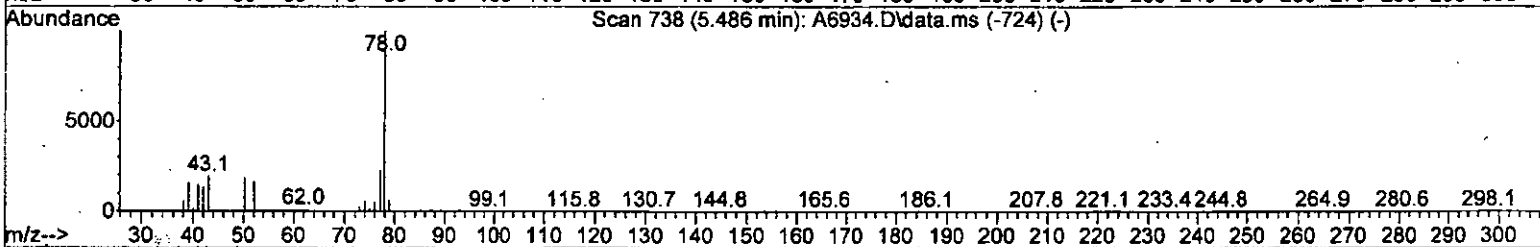
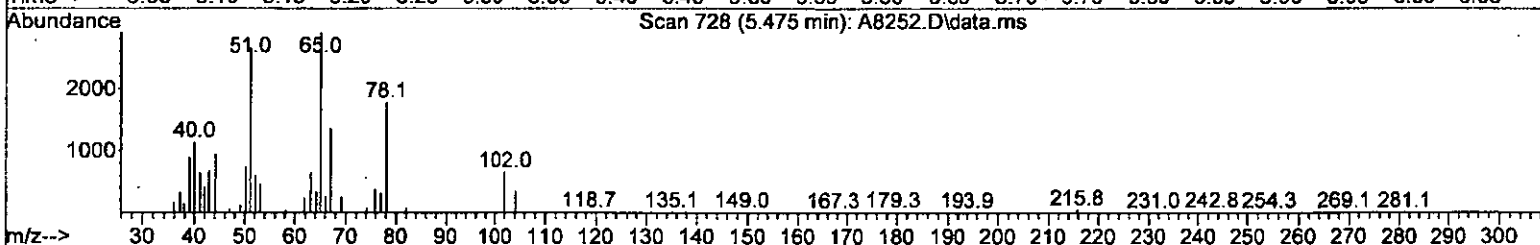
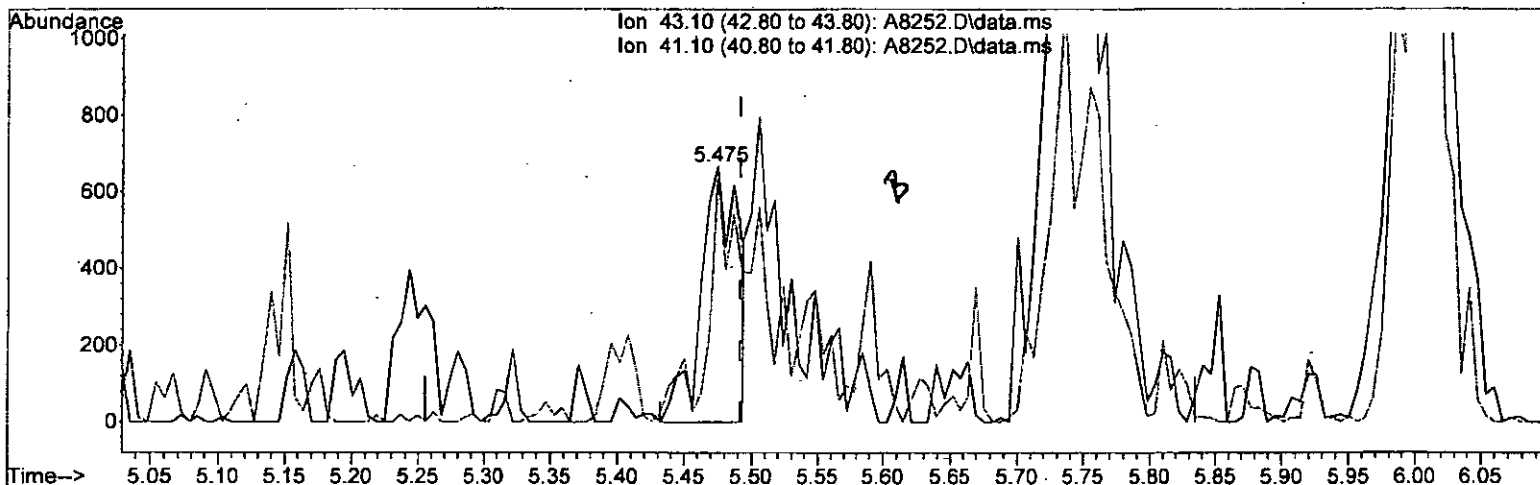
response 6228

Ion	Exp%	Act%
41.10	100	100
39.10	49.60	32.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(49) Iso-Butyl Alcohol

5.475min (-0.017) 4.06 ug/L

response 1272

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	97.29
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8252.D

Acq On : 6 May 2015 4:31 pm

Operator : F. NAEGLER

Sample : 0.5 PPB STD

Misc :

Inst : MSVOA10

ALS Vial : 3 Sample Multiplier: 1

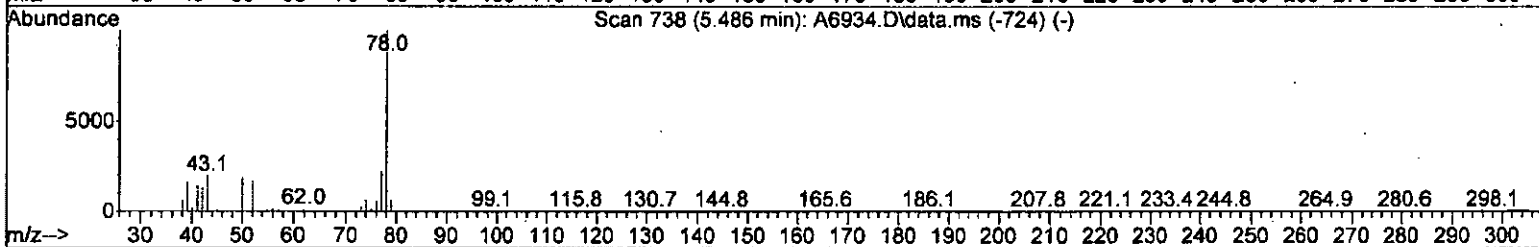
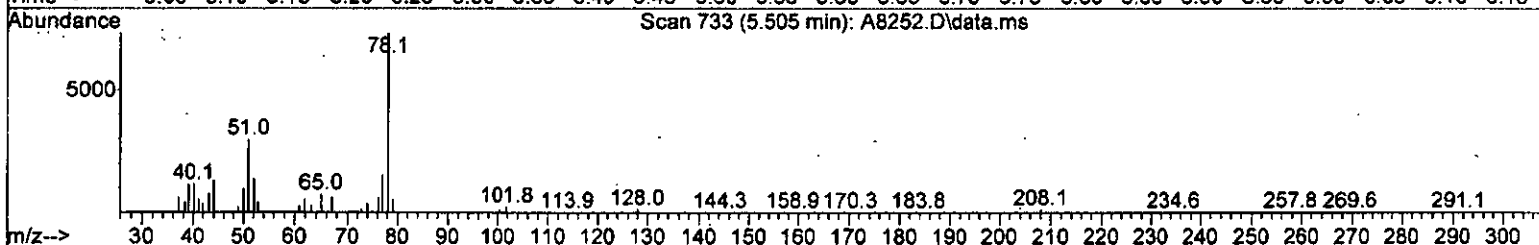
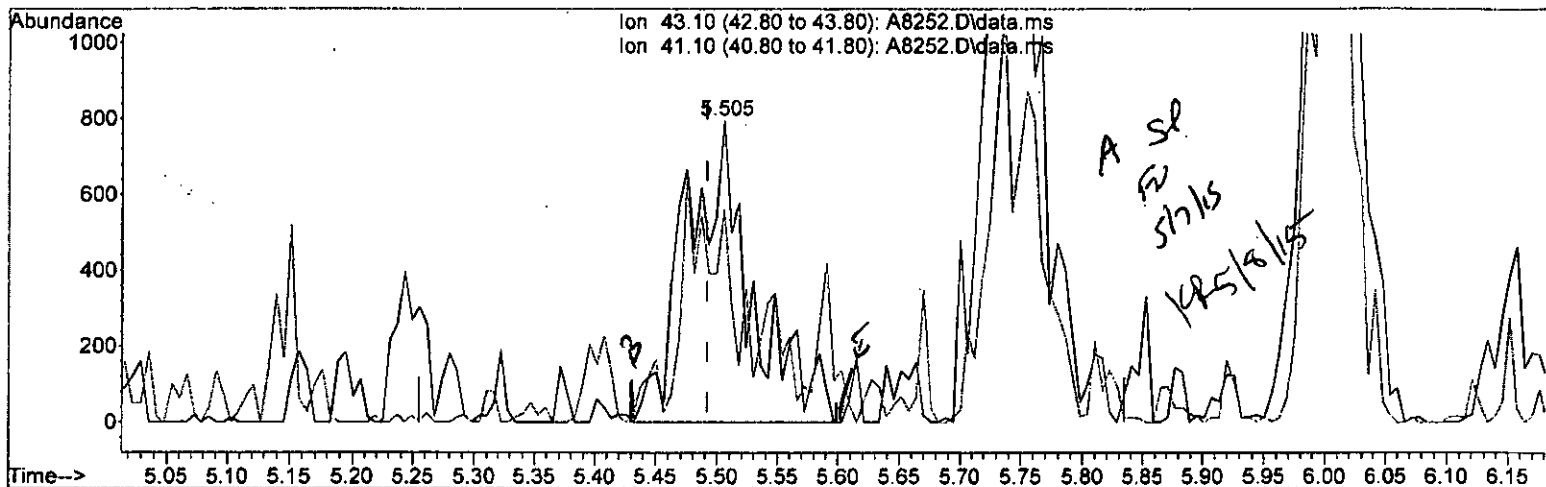
Quant Time: May 06 16:46:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8252.D\data.ms

(49) Iso-Butyl Alcohol

5.505min (+0.013) 9.36 ug/L m

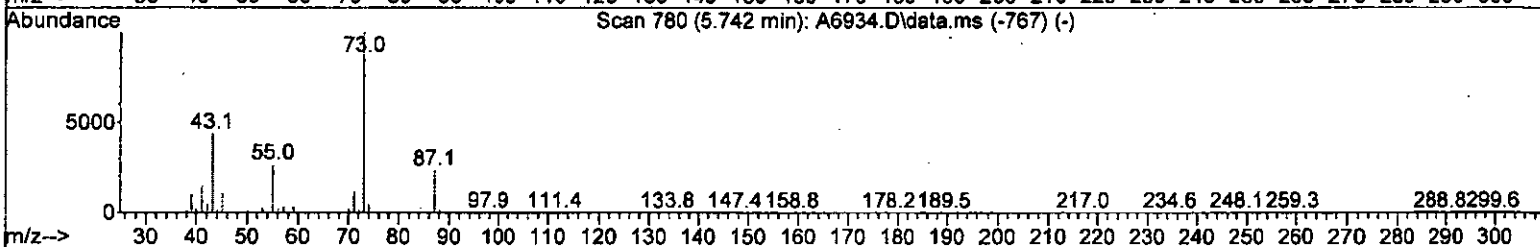
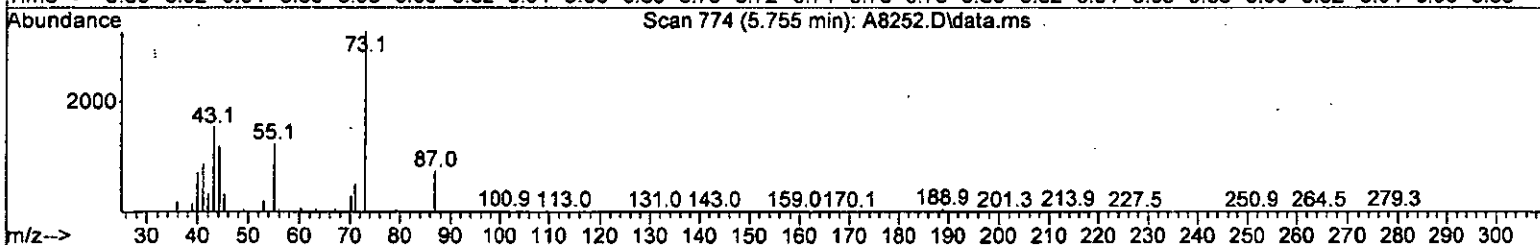
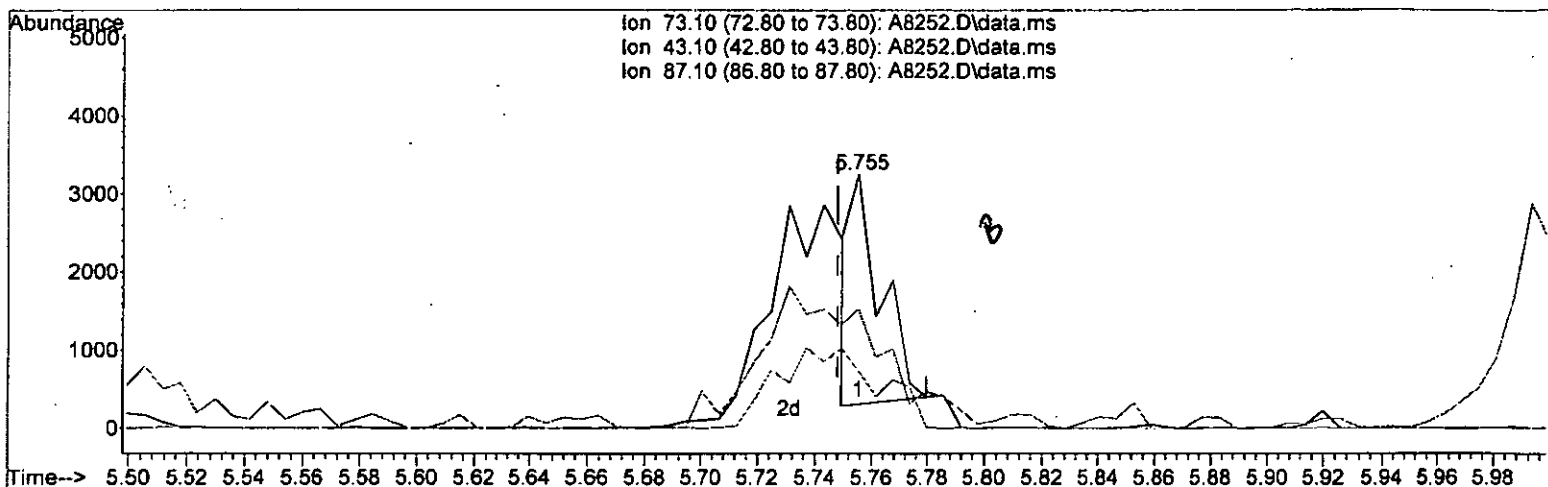
response 2936

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	70.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(50) TAME

5.755min (+0.007) 0.10 ug/L

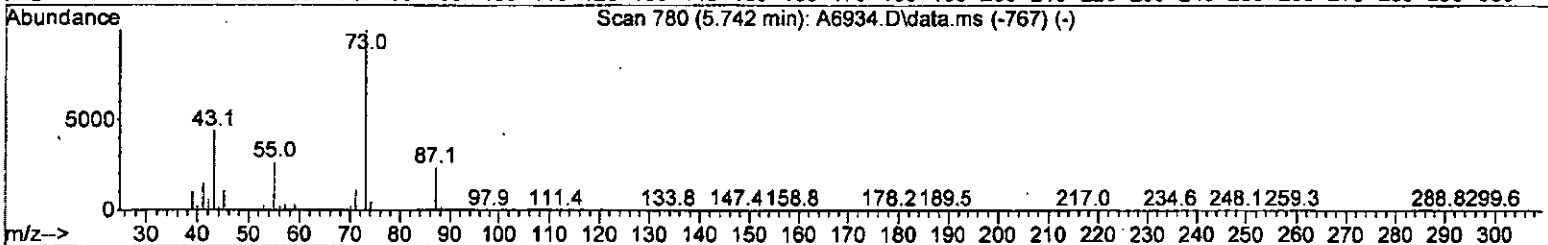
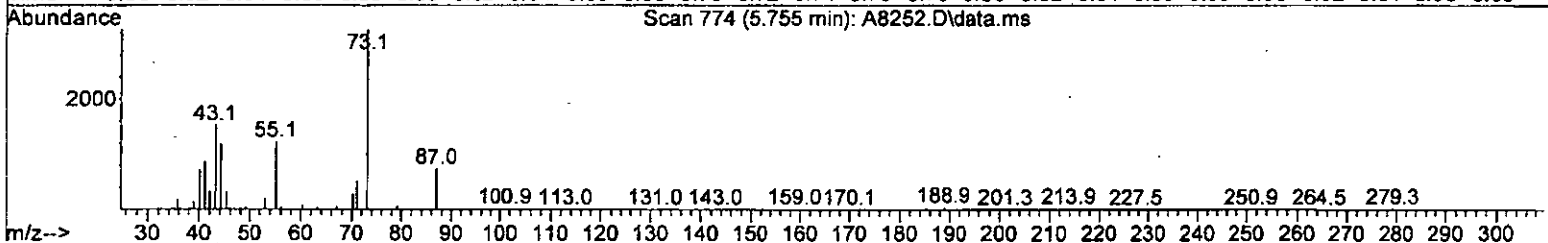
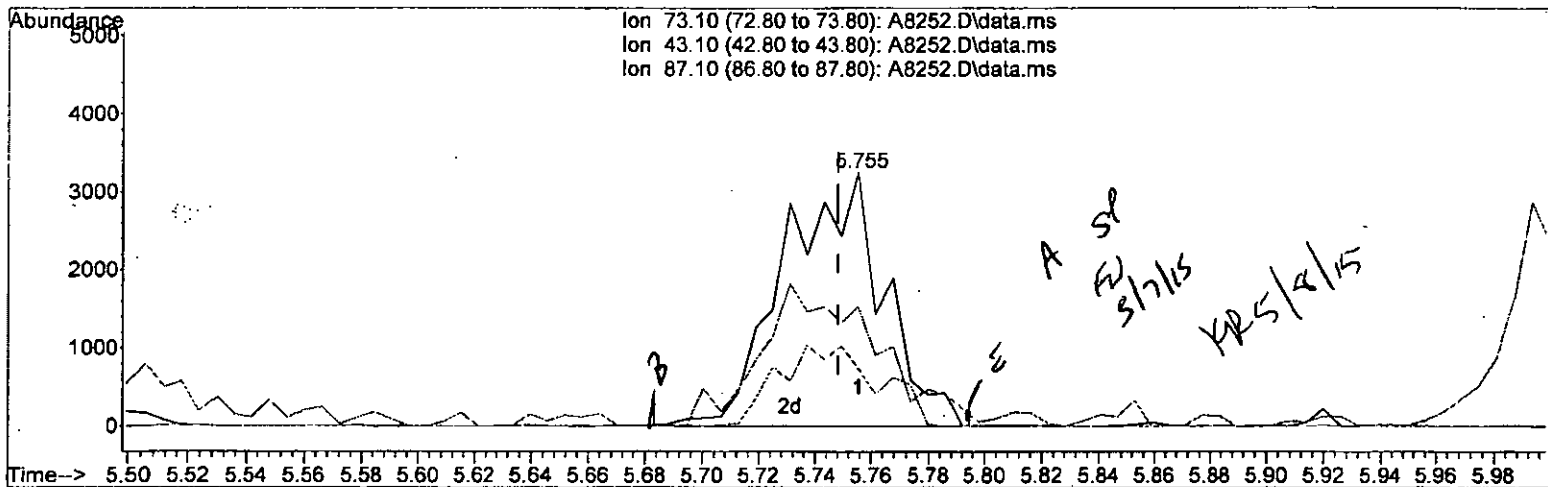
response 2137

Ion	Exp%	Act%
73.10	100	100
43.10	37.80	46.92
87.10	23.80	22.72
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(50) TAME

5.755min (+0.007) 0.36 ug/L m

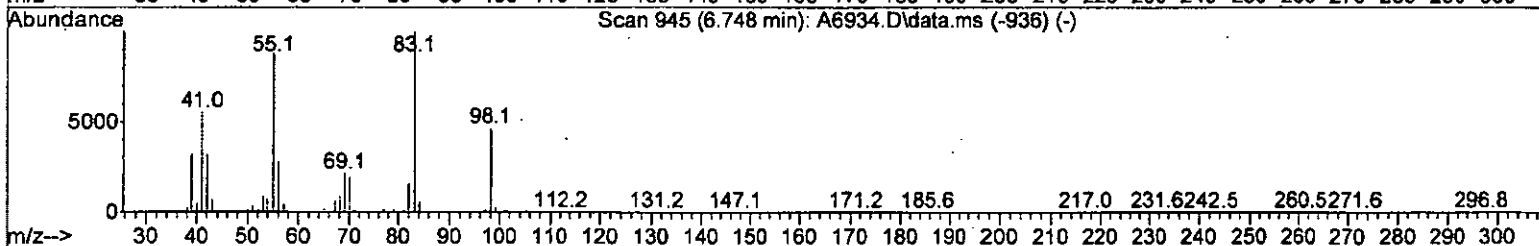
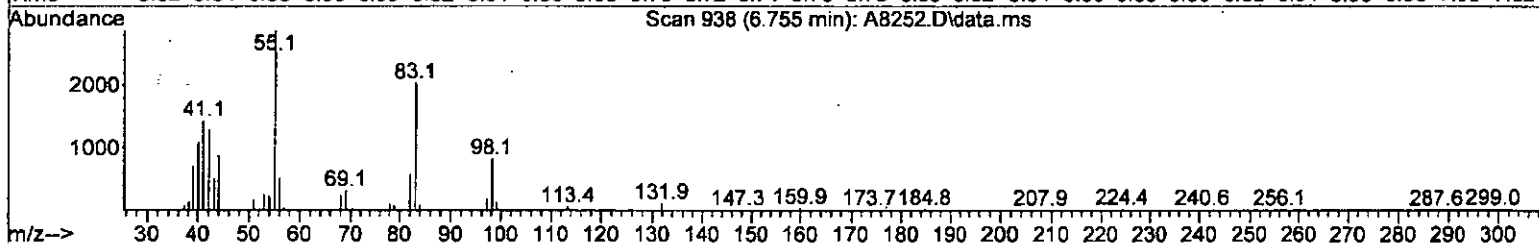
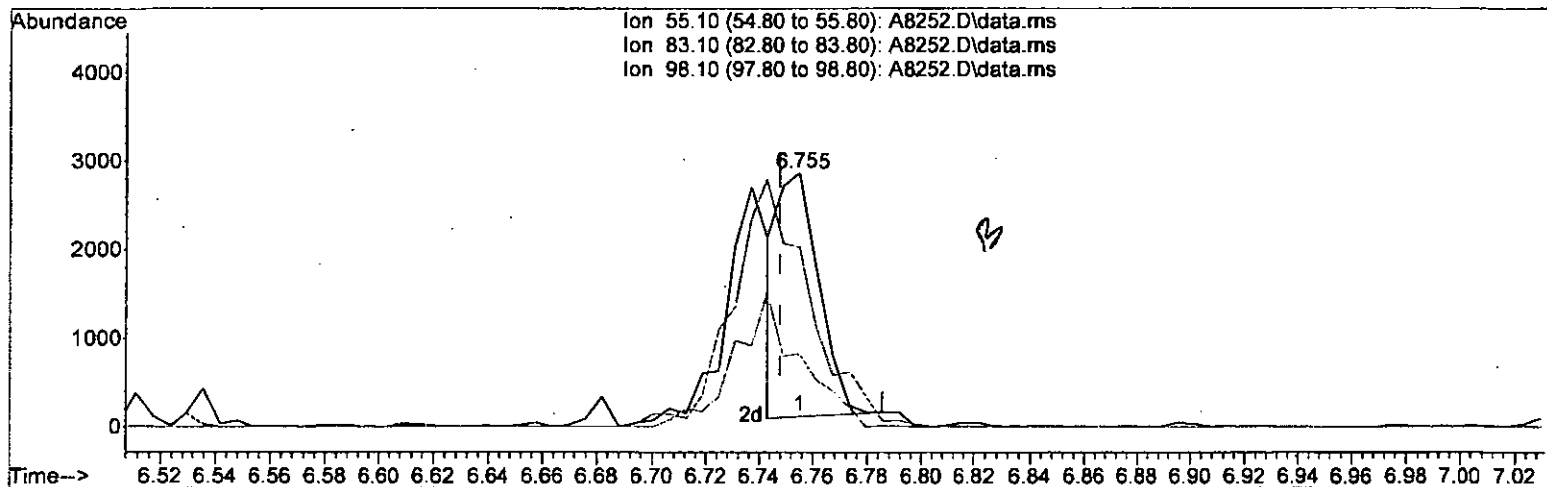
response 7995

Ion	Exp%	Act%
73.10	100	100
43.10	37.80	46.92
87.10	23.80	22.72
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(54) Methylcyclohexane (P)

6.755min (+0.007) 0.22 ug/L

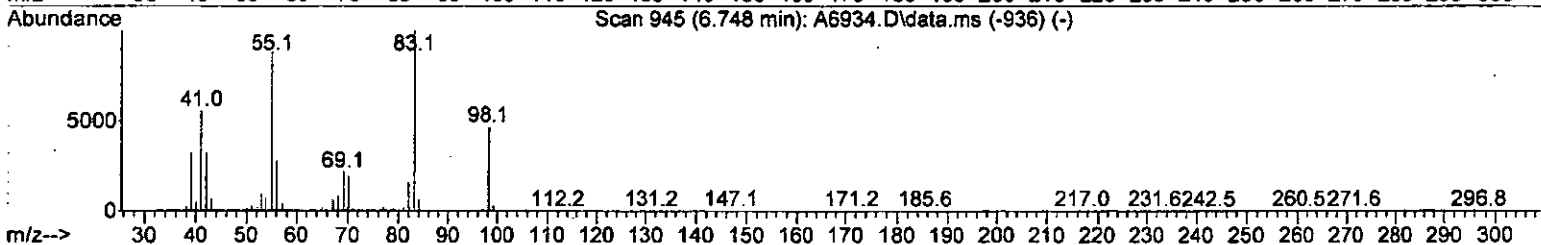
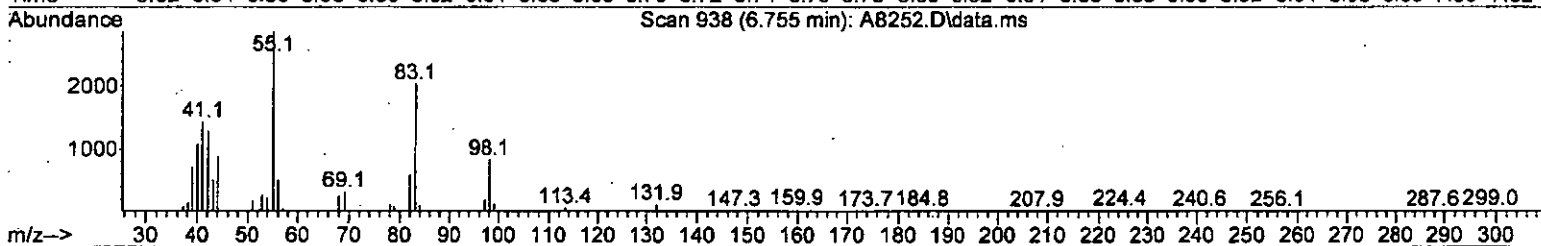
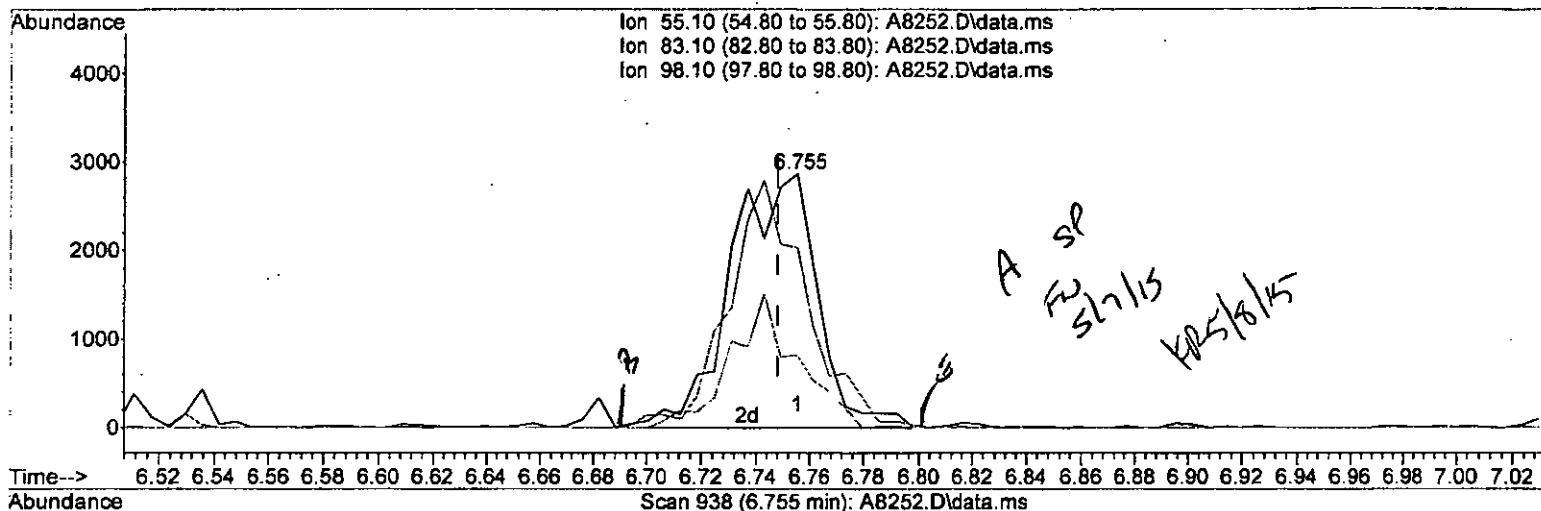
response 2870

Ion	Exp%	Act%
55.10	100	100
83.10	118.00	70.76#
98.10	52.10	28.68#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(54) Methylcyclohexane (P)

6.755min (+0.007) 0.49 ug/L m

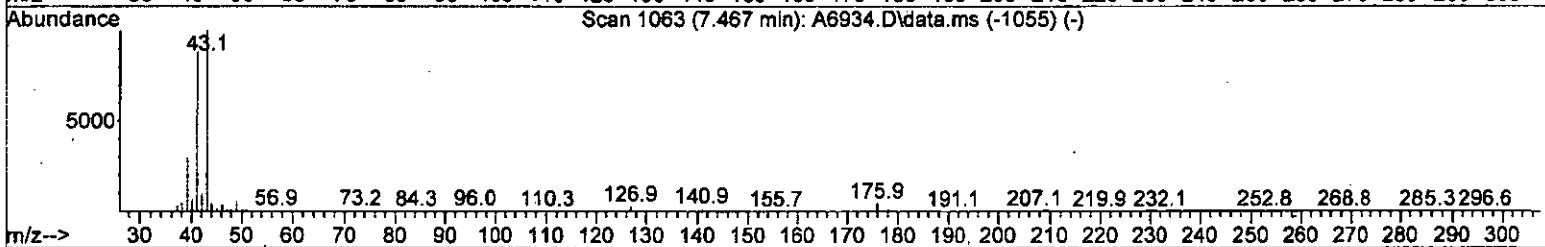
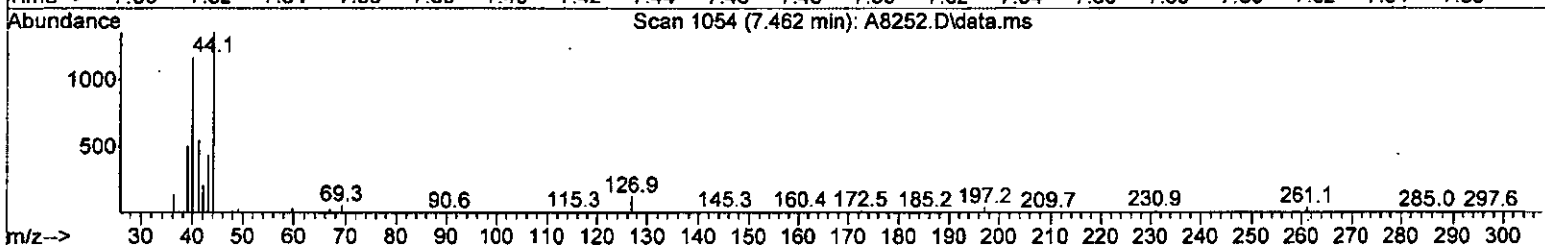
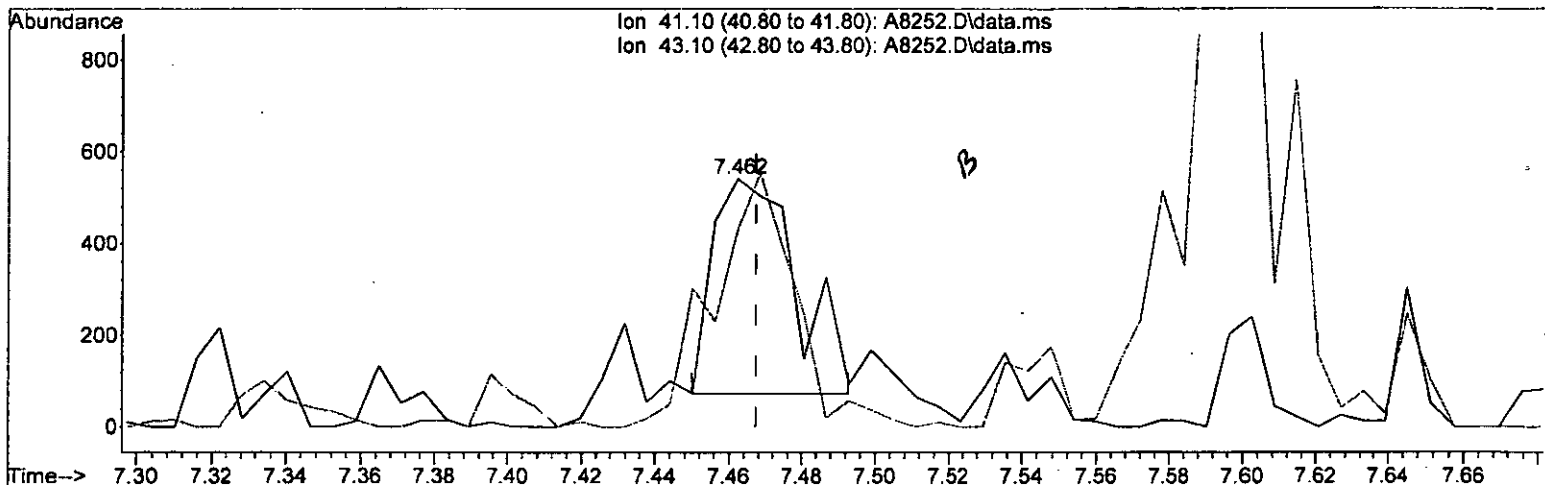
response 6388

Ion	Exp%	Act%
55.10	100	100
83.10	118.00	70.76#
98.10	52.10	28.68#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(60) 2-Nitropropane

7.462min (-0.005) 0.38 ug/L

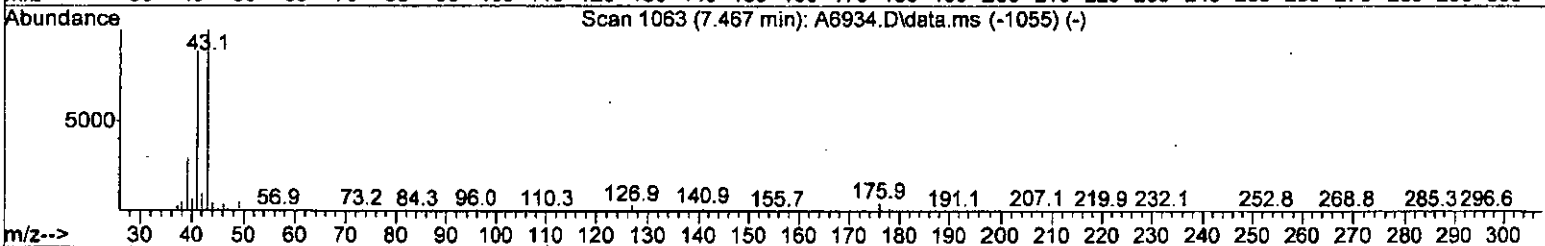
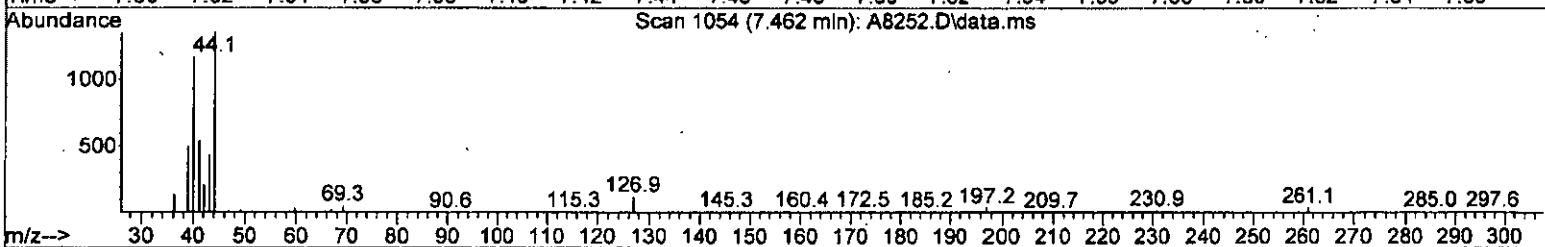
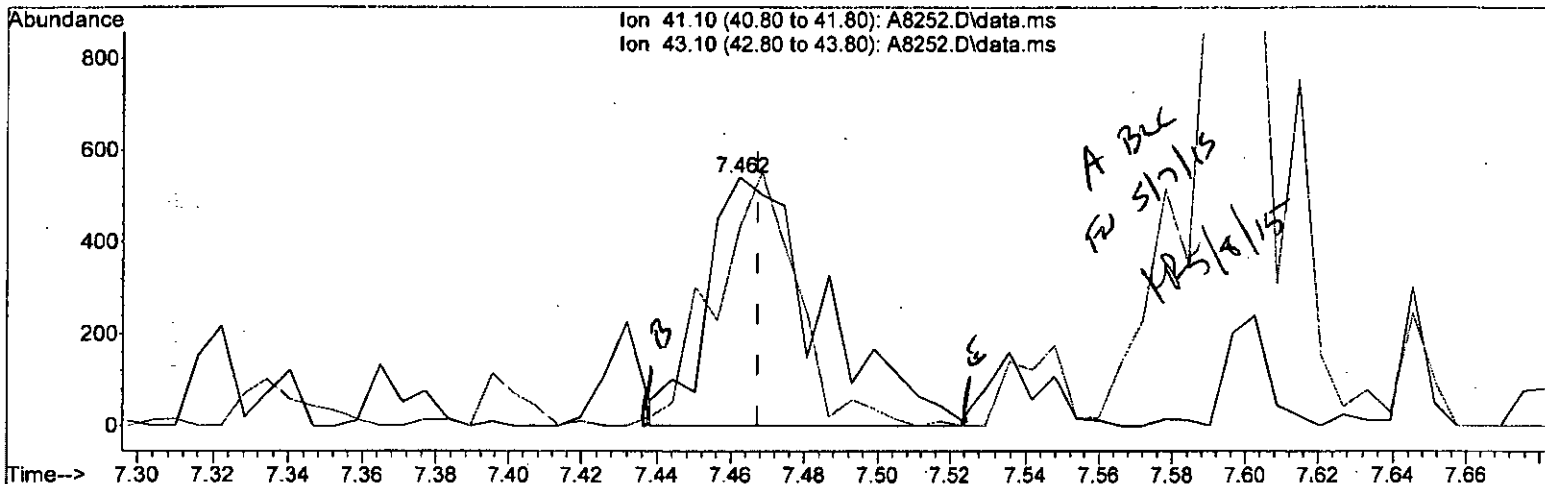
response 743

Ion	Exp%	Act%
41.10	100	100
43.10	111.20	79.85#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8252.D
Acq On : 6 May 2015 4:31 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



TIC: A8252.D\data.ms

(60) 2-Nitropropane

7.462min (-0.005) 0.59 ug/L m

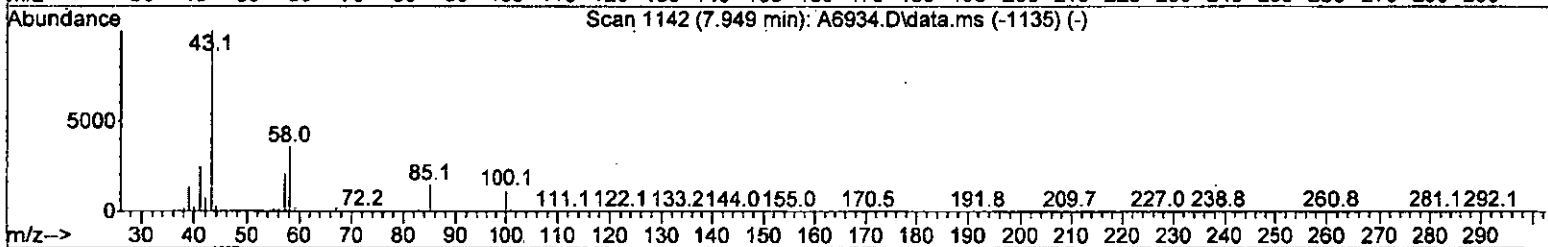
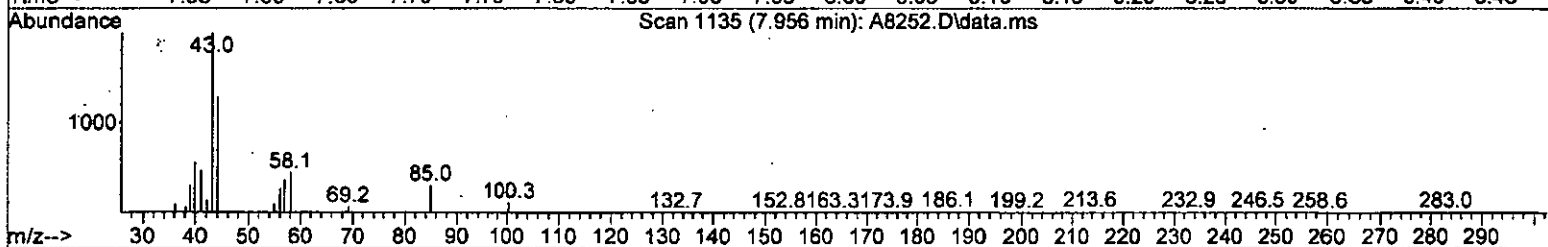
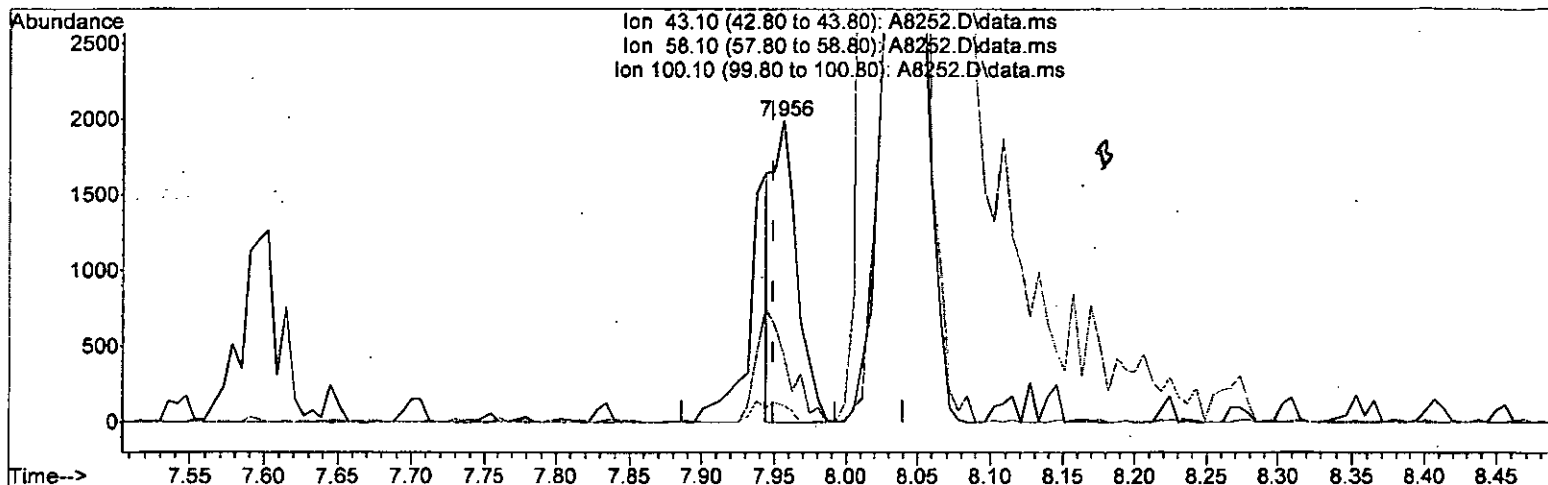
response 1141

Ion	Exp%	Act%
41.10	100	100
43.10	111.20	79.85#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(63) 4-Methyl-2-pentanone (P)

7.956min (+0.007) 0.32 ug/L

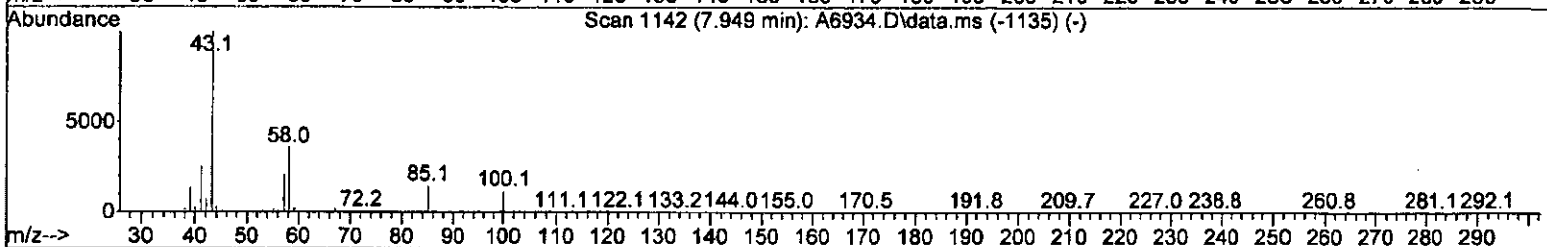
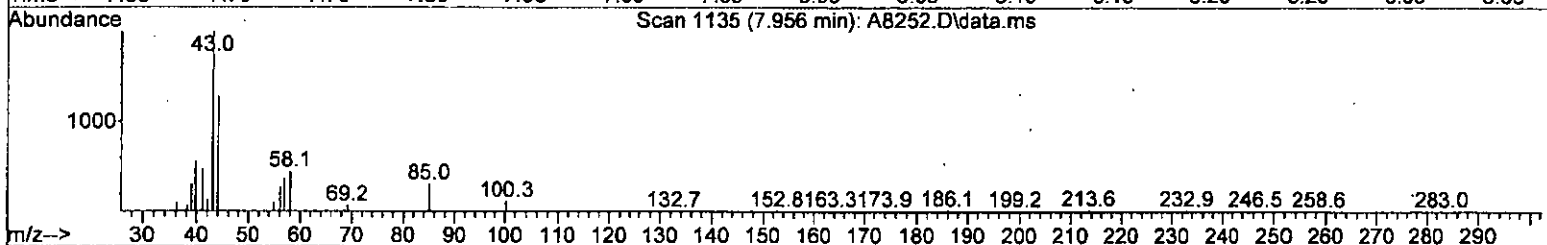
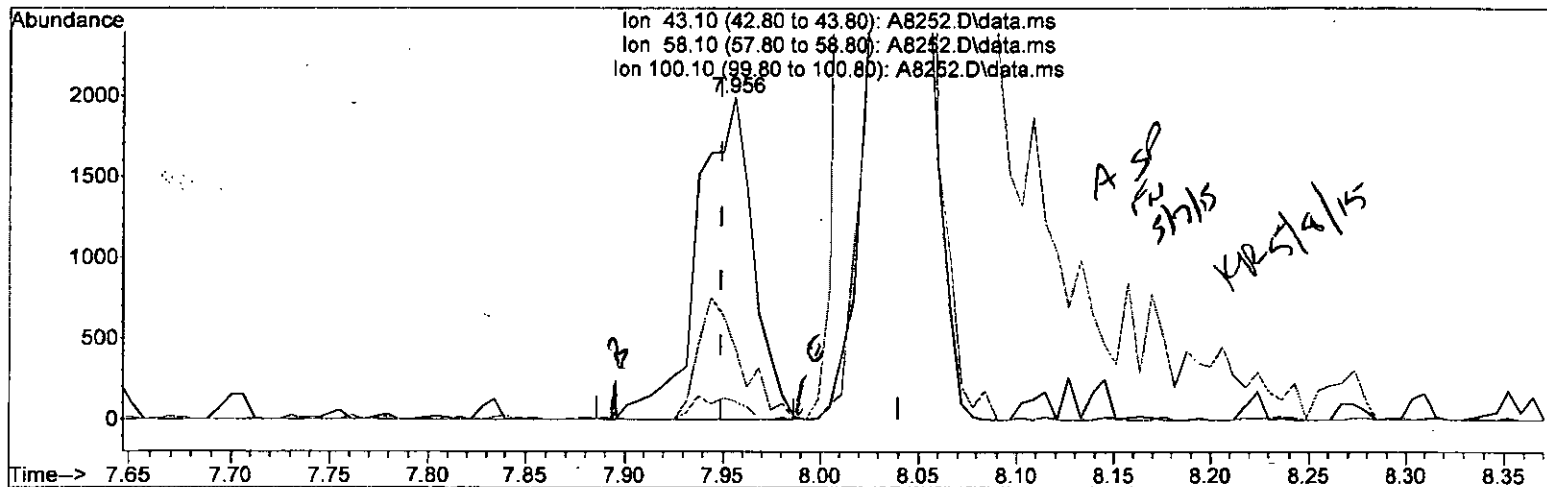
response 2302

Ion	Exp%	Act%
43.10	100	100
58.10	36.50	22.42
100.10	13.70	5.73
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(63) 4-Methyl-2-pentanone (P)

7.956min (+0.007) 0.55 ug/L m

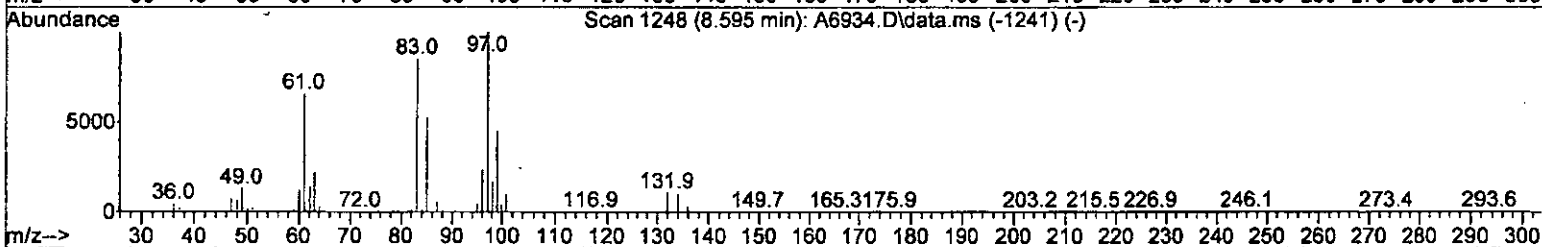
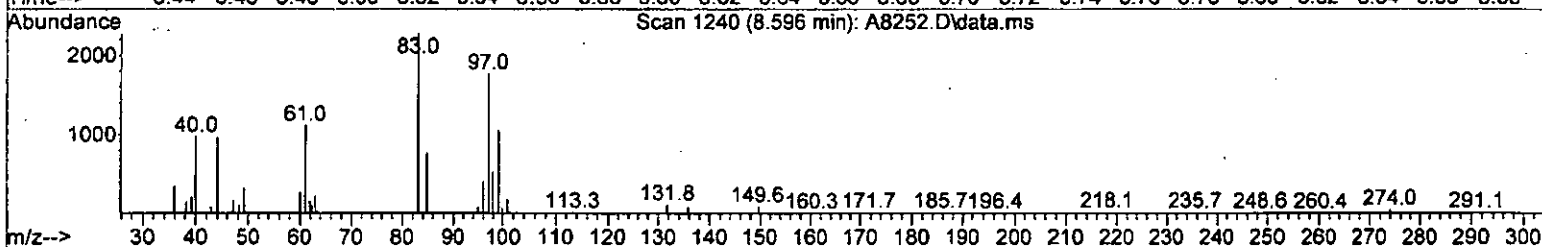
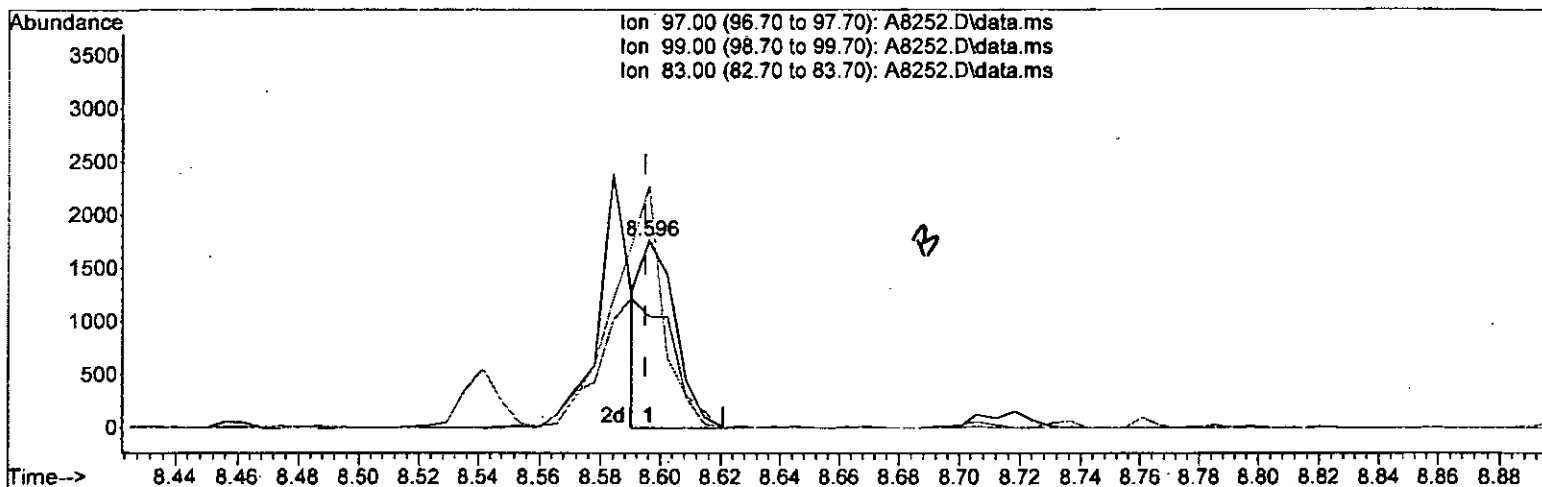
response 3877

Ion	Exp%	Act%
43.10	100	100
58.10	36.50	22.42
100.10	13.70	5.73
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(68) 1,1,2-Trichloroethane (P)

8.596min (+0.001) 0.20 ug/L

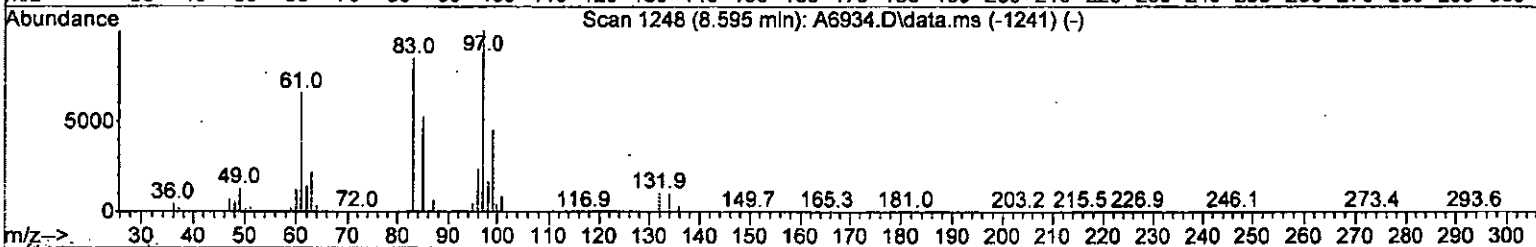
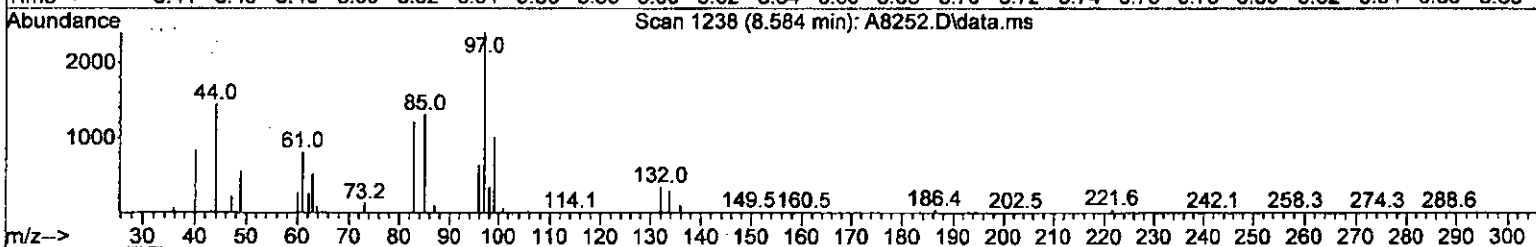
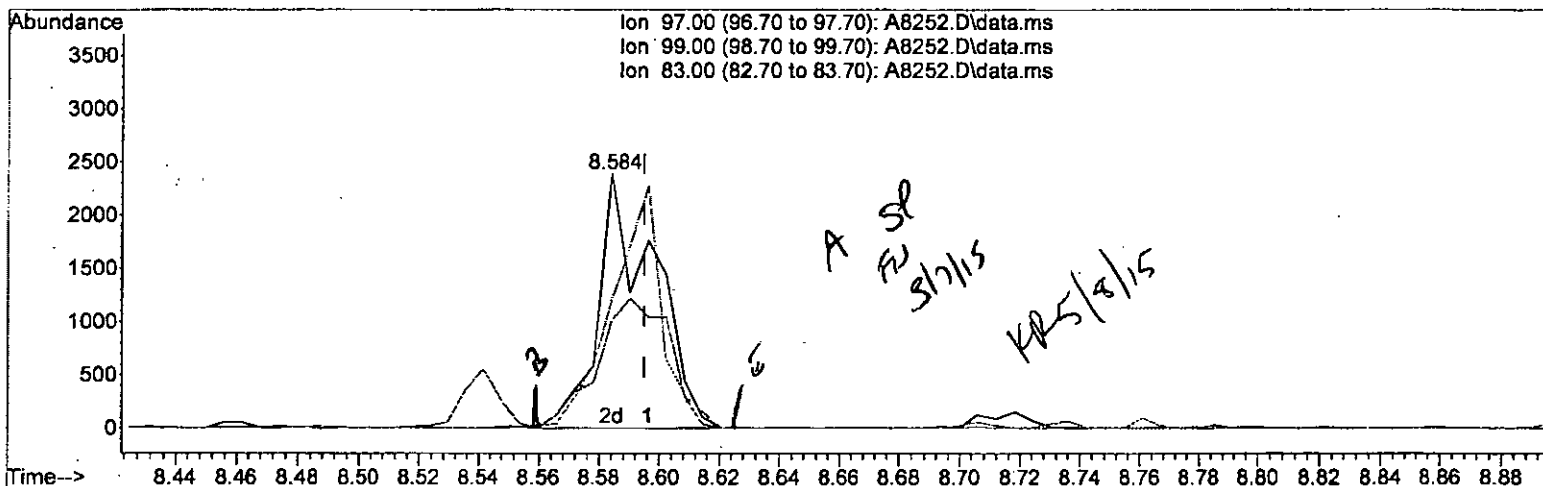
response 1367

Ion	Exp%	Act%
97.00	100	100
99.00	58.80	59.22
83.00	82.00	129.12#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(68) 1,1,2-Trichloroethane (P)

8.584min (-0.011) 0.45 ug/L m

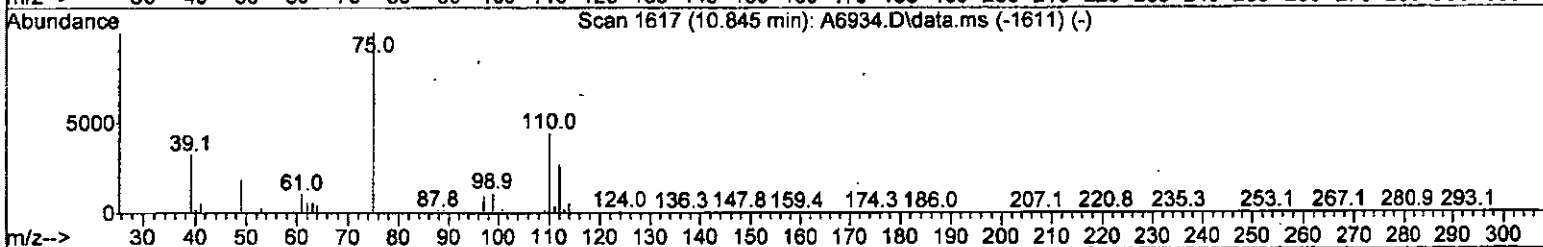
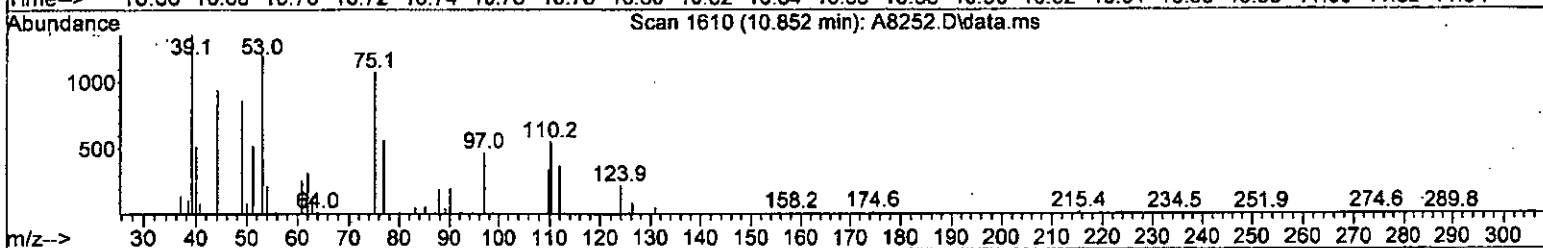
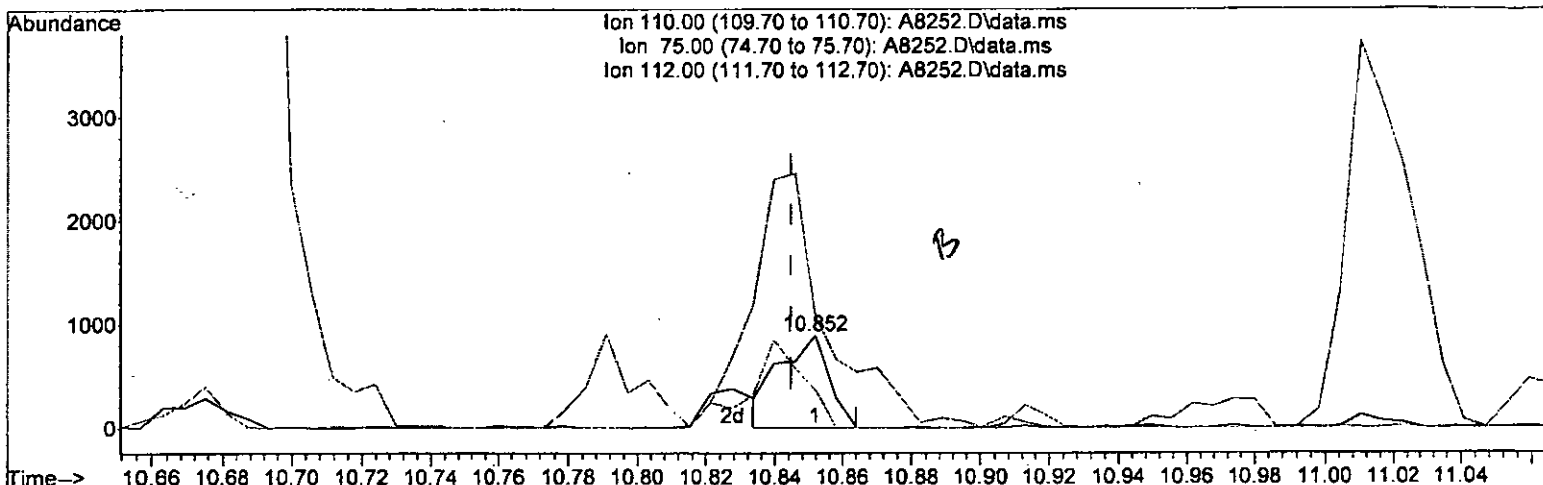
response 3094

Ion	Exp%	Act%
97.00	100	100
99.00	58.80	42.26
83.00	82.00	50.48#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(93) 1,2,3-Trichloropropane

10.852min (+0.007) 0.42 ug/L

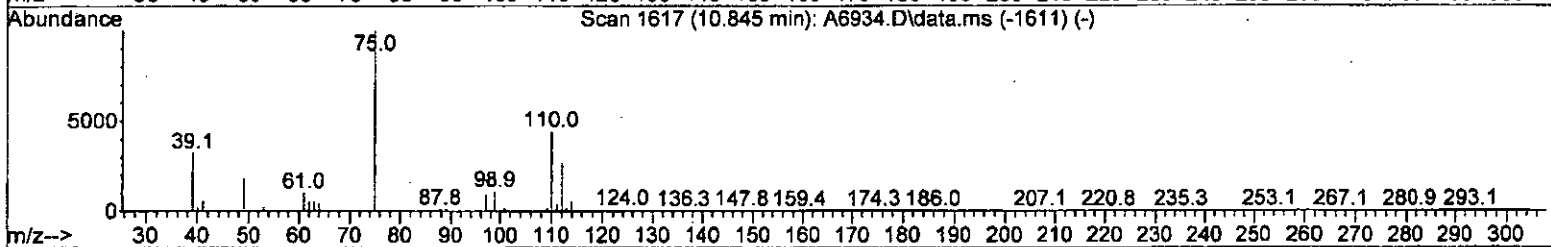
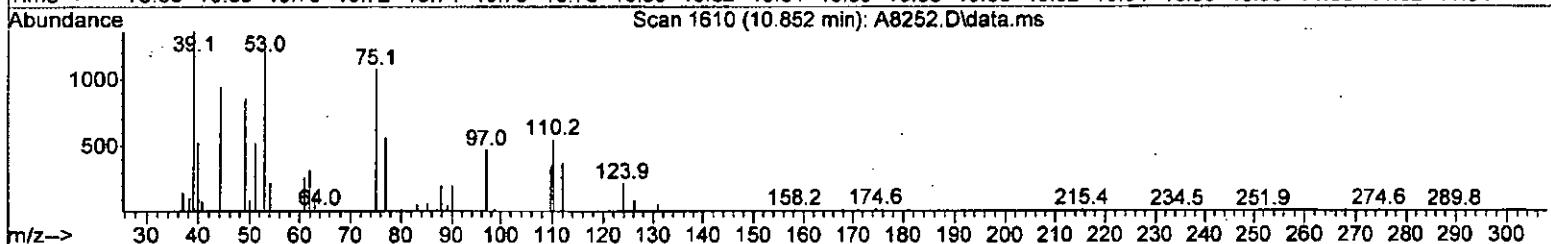
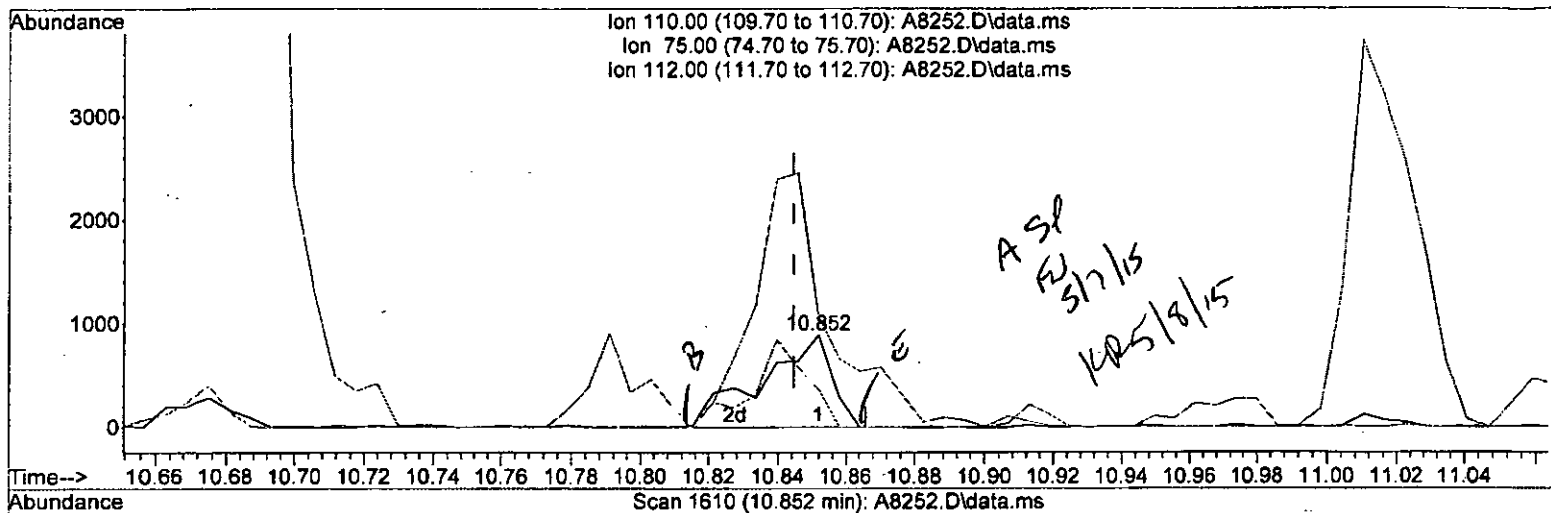
response 890

Ion	Exp%	Act%
110.00	100	100
75.00	238.20	121.06#
112.00	60.70	41.33
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(93) 1,2,3-Trichloropropane

10.852min (+0.007) 0.59 ug/L m

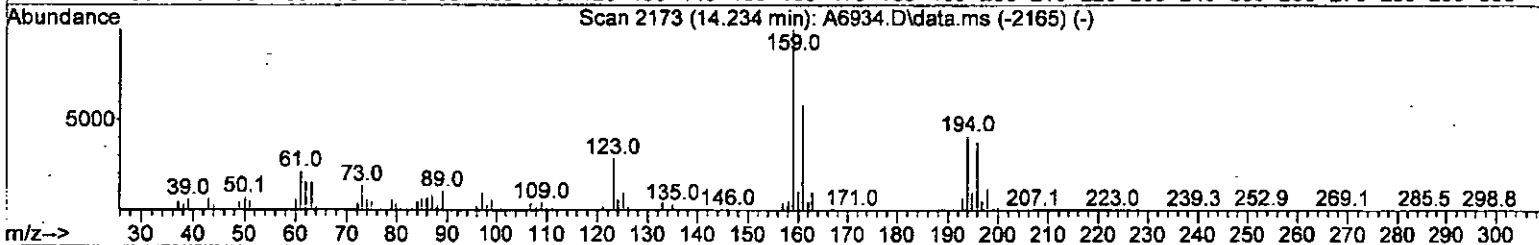
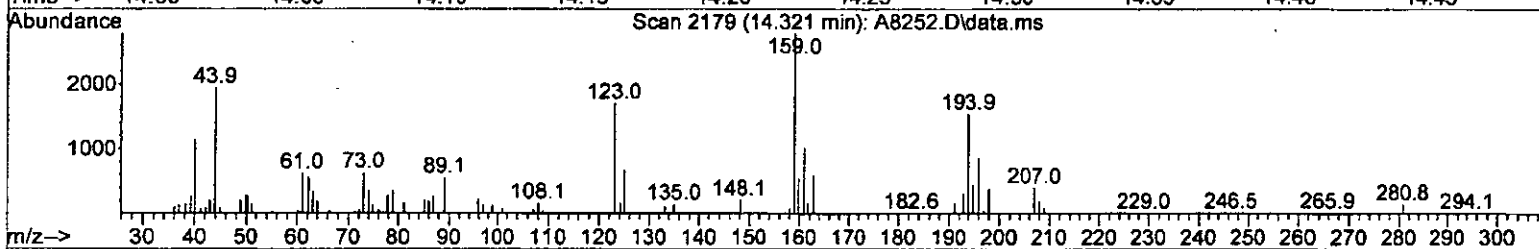
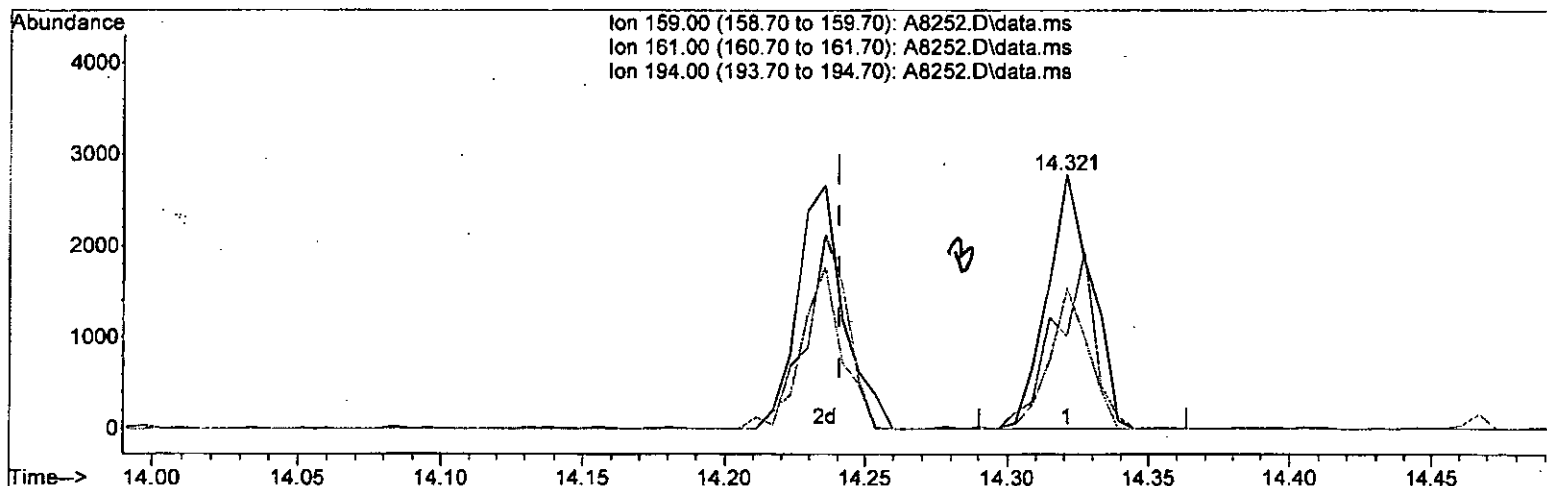
response 1251

Ion	Exp%	Act%
110.00	100	100
75.00	238.20	196.53#
112.00	60.70	67.09
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.321min (+0.080) 0.51 ug/L

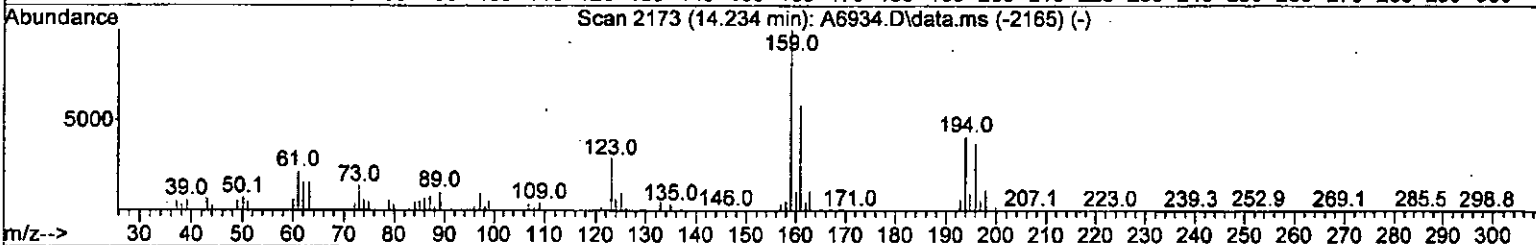
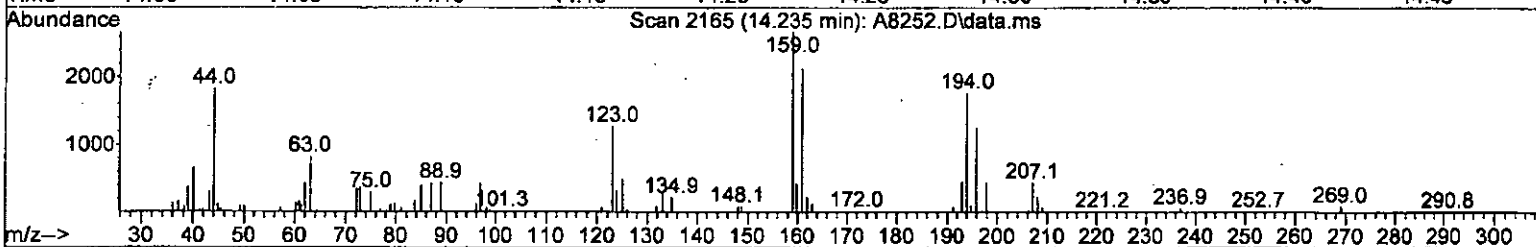
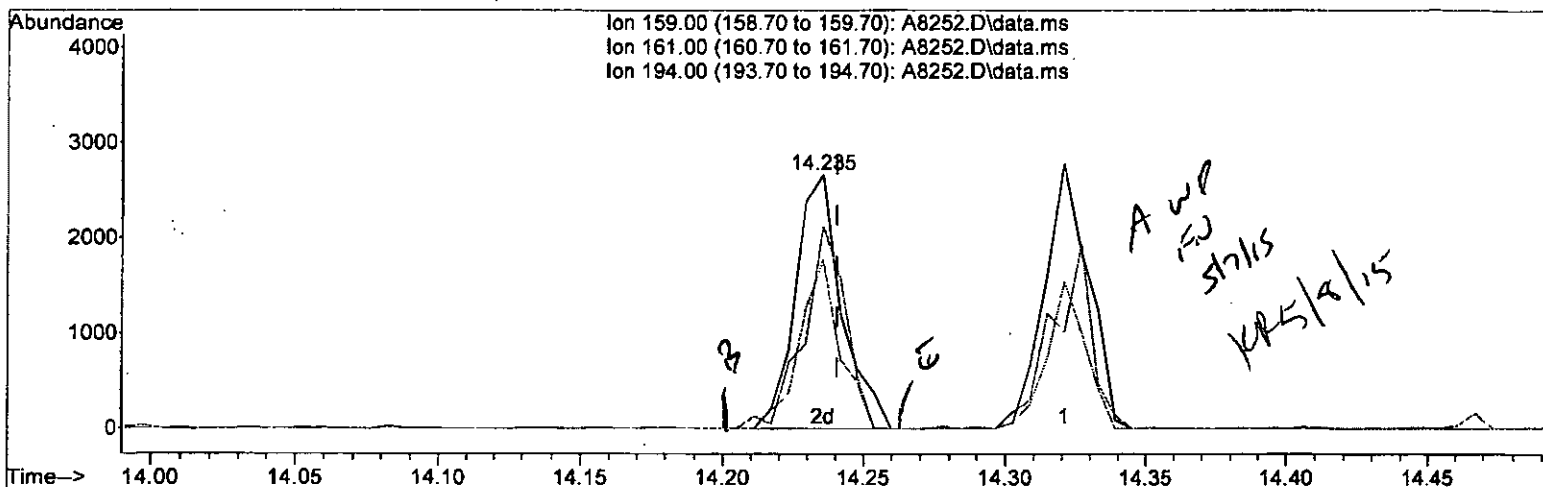
response 3037

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	42.36
194.00	43.50	55.44
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(118) 2,4,5-Trichlorotoluene

14.235min (-0.005) 0.51 ug/L m

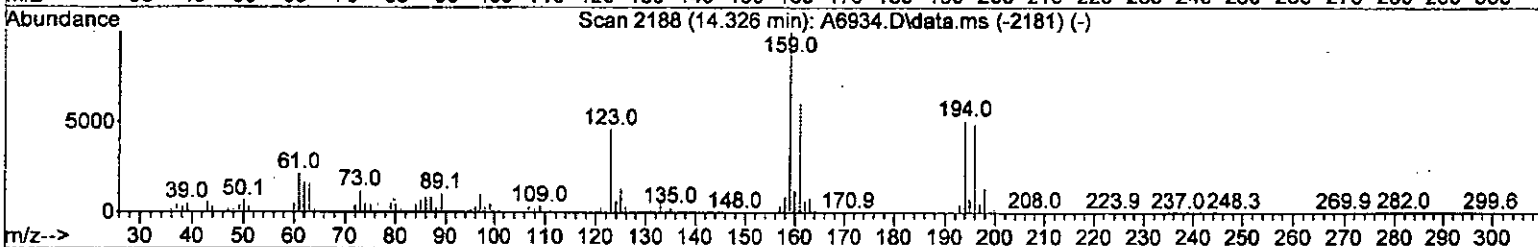
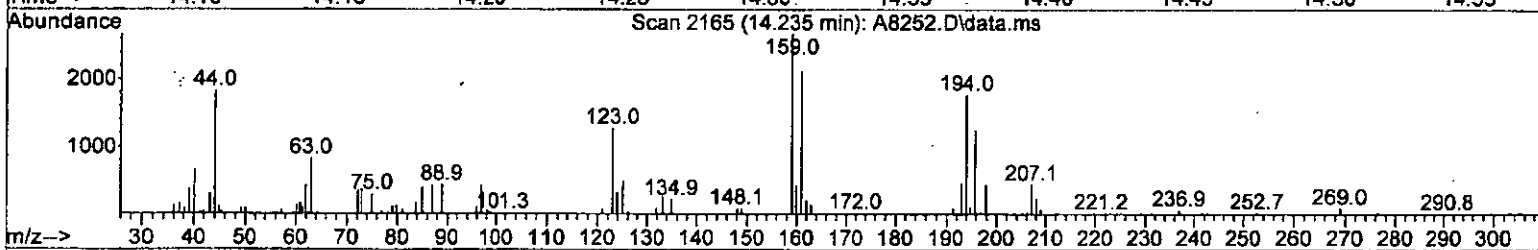
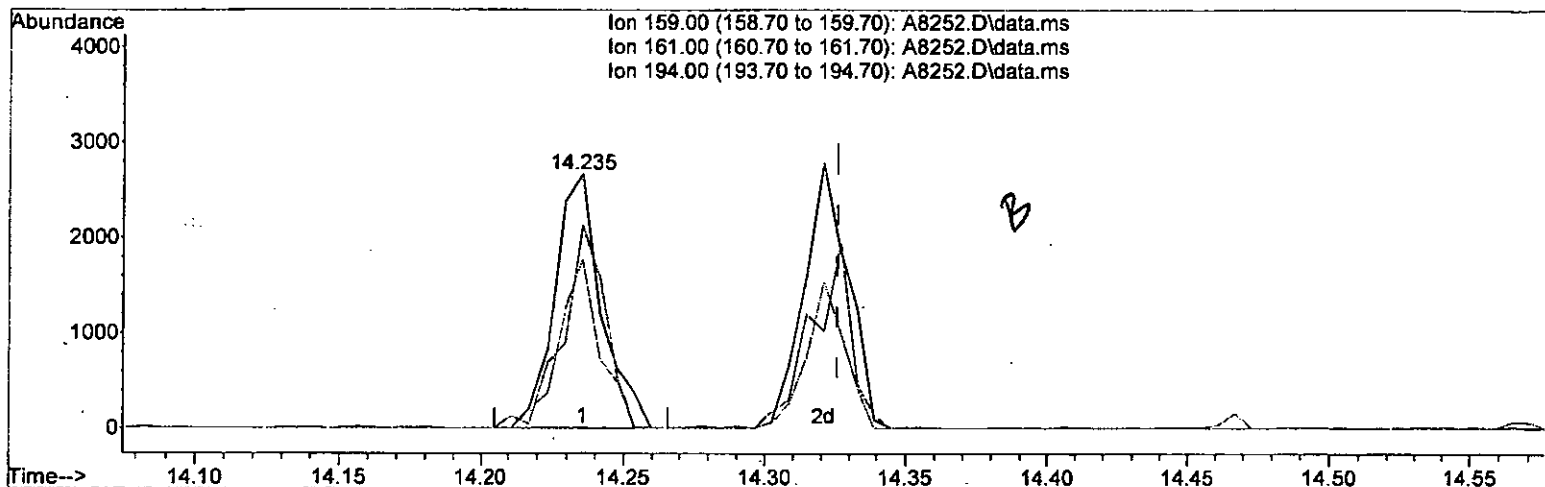
response 3021

Ion	Exp%	Act%
159.00	100	100
161.00	62.00	79.71
194.00	43.50	66.42#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.235min (-0.090) 0.60 ug/L

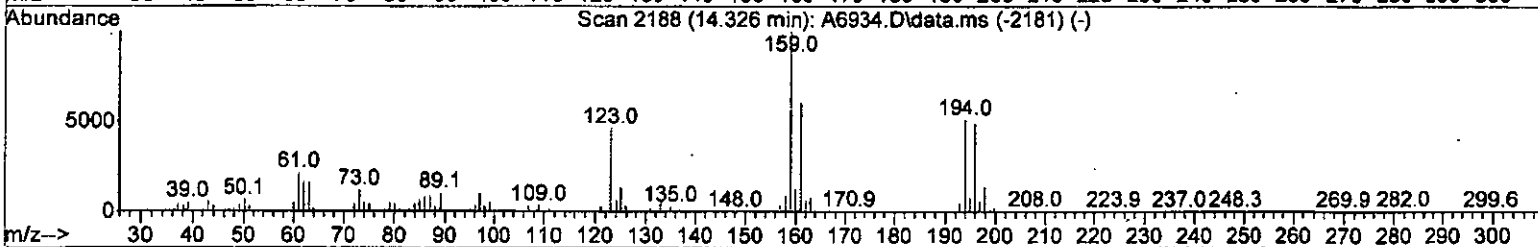
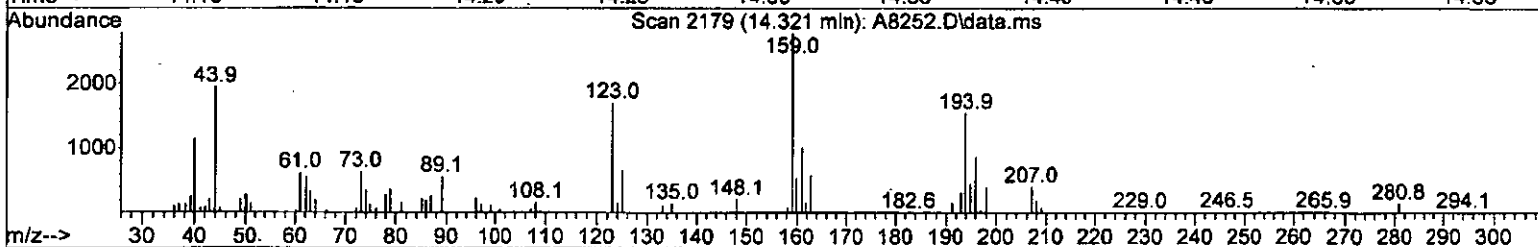
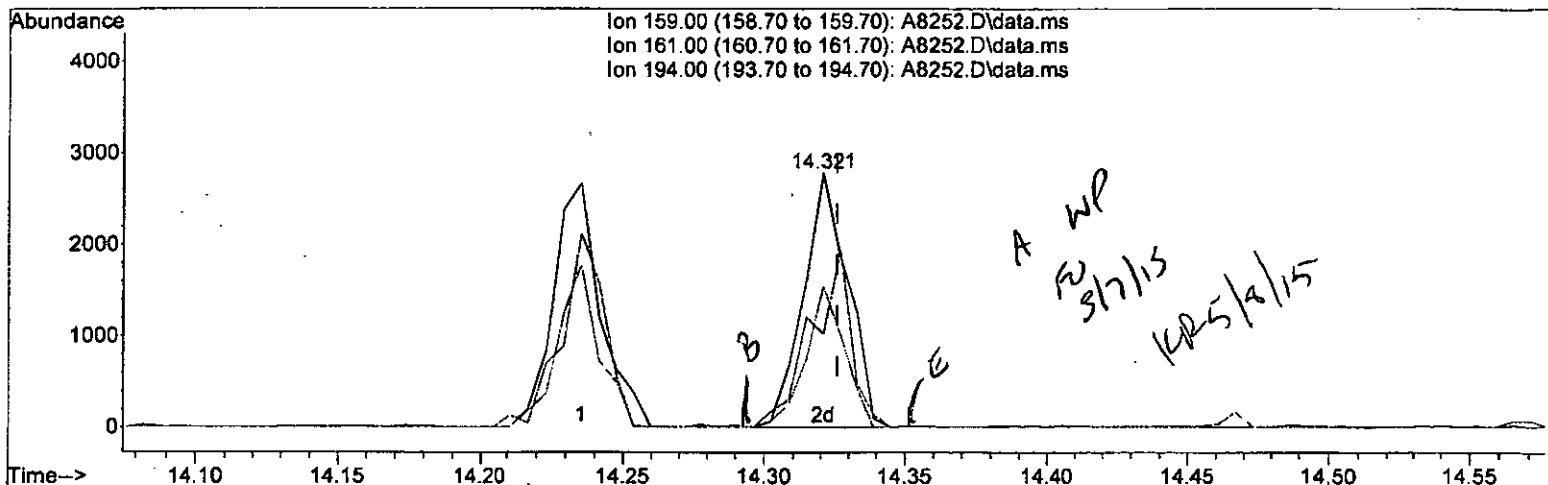
response 3020

Ion	Exp%	Act%
159.00	100	100
161.00	62.90	79.71
194.00	47.30	66.42
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8252.D
 Acq On : 6 May 2015 4:31 pm
 Operator : F. NAEGLER
 Sample : 0.5 PPB STD
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 16:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8252.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.321min (-0.005) 0.60 ug/L m

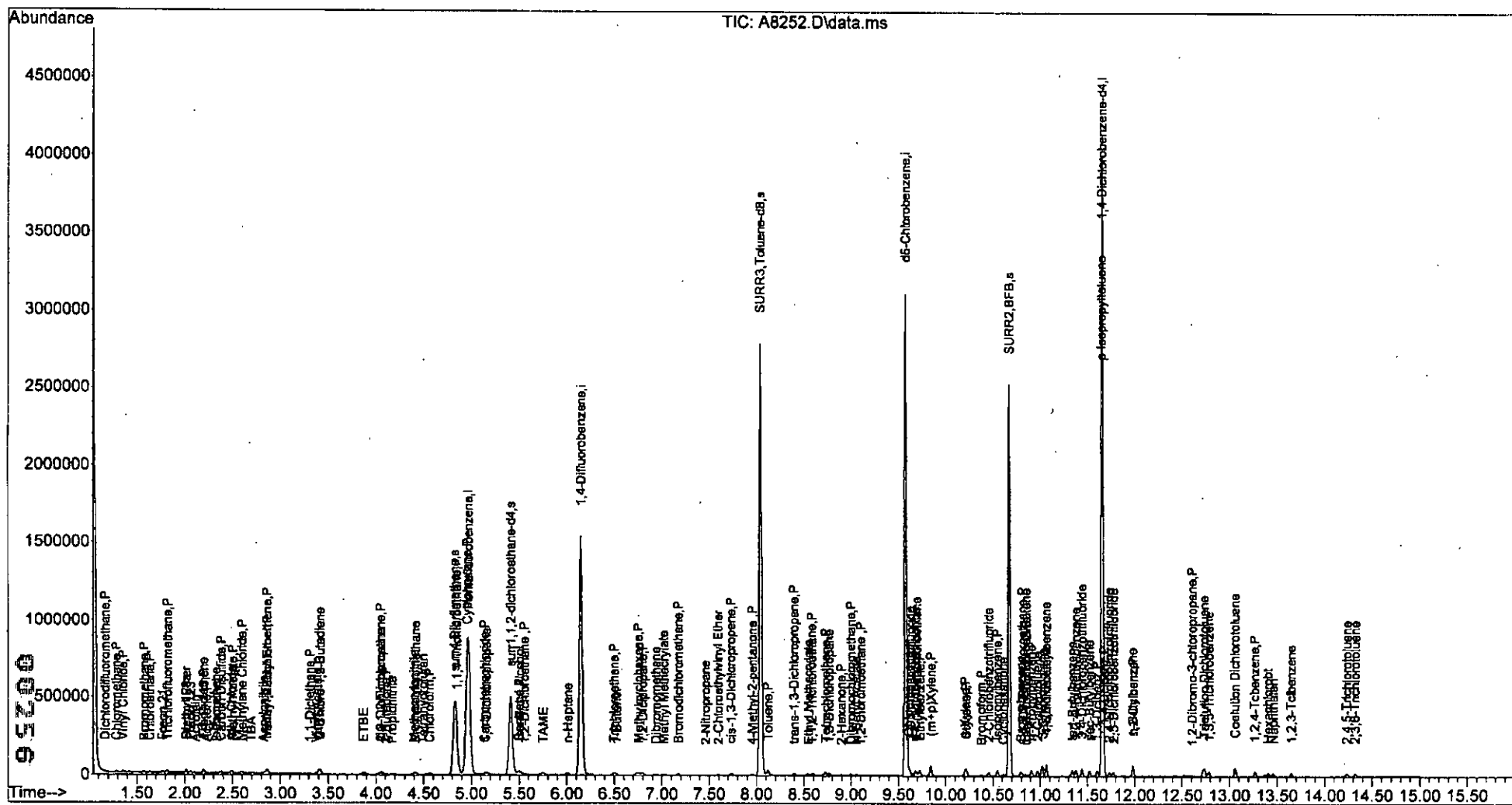
response 3038

Ion	Exp%	Act%
159.00	100	100
161.00	62.90	36.46#
194.00	47.30	55.44
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8252.D
Acq On : 6 May 2015 4:31 pm
Operator : F. NAEGLER
Sample : 0.5 PPB STD
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:13:00 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 07 10:01:27 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FU
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	919700	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1429798	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1336653	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	776663	50.00	ug/L	0.00

System Monitoring Compounds

43) surr4, Dibrflmethane	4.835	113	430936	50.43	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	100.86%	
46) surr1, 1,2-dichloroetha...	5.414	65	448817	50.45	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	100.90%	
64) SURR3, Toluene-d8	8.041	98	1652534	50.35	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	100.70%	
69) SURR2, BFB	10.675	95	664158	46.14	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	92.28%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane.	1.159	85	8914m	1.02	ug/L	
3) Chloromethane	1.281	50	16320	1.49	ug/L	93
4) Vinyl Chloride	1.354	62	11534	1.13	ug/L	85
5) Bromomethane	1.573	94	5088	1.45	ug/L	92
6) Chloroethane	1.640	64	6626	1.14	ug/L	88
7) Freon 21	1.768	67	13283	0.84	ug/L	99
8) Trichlorofluoromethane	1.811	101	12747	1.01	ug/L	90
9) Diethyl Ether	2.012	59	6631	1.01	ug/L #	78
10) Freon 123a	2.012	67	9527m	0.96	ug/L	
11) Freon 123	2.061	83	9353	0.85	ug/L #	71
12) Acrolein	2.104	56	7248	7.54	ug/L	84
13) 1,1-Dicethene	2.195	96	5876	0.83	ug/L #	77
14) Freon 113	2.195	101	6793	0.88	ug/L	86
15) Acetone	2.226	43	6740	3.11	ug/L	89
16) 2-Propanol	2.329	45	8902m	22.41	ug/L	
17) Iodomethane	2.317	142	9219m	1.95	ug/L	
18) Carbon Disulfide	2.378	76	25125	0.97	ug/L	100
19) Acetonitrile	2.451	40	1803	5.98	ug/L #	38
20) Allyl Chloride	2.488	76	4396	1.05	ug/L #	63
21) Methyl Acetate	2.506	43	6883	1.42	ug/L	80
22) Methylene Chloride	2.597	84	8299	1.06	ug/L #	67
23) TBA	2.701	59	10600	17.65	ug/L	71
24) Acrylonitrile	2.823	53	12800	5.75	ug/L	99
25) Methyl-t-Butyl Ether	2.866	73	18625	0.90	ug/L	68
26) trans-1,2-Dichloroethene	2.860	96	7093	0.89	ug/L	93
27) 1,1-Dicethane	3.311	63	17165	1.15	ug/L	88
28) Vinyl Acetate	3.378	86	916	0.65	ug/L #	1
29) DIPE	3.402	45	42837	1.32	ug/L #	77
30) 2-Chloro-1,3-Butadiene	3.408	53	17827	1.03	ug/L	83
31) ETBE	3.884	59	28405	1.04	ug/L	96
32) 2,2-Dichloropropane	4.054	77	10893m	0.93	ug/L	
33) cis-1,2-Dichloroethene	4.054	96	8569	0.96	ug/L #	69
34) 2-Butanone	4.115	43	3559	1.20	ug/L	66
35) Propionitrile	4.176	54	4236	5.25	ug/L	88

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 07 10:01:27 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.414	130	6079	1.22	ug/L #	75
37) Methacrylonitrile	4.408	67	2451	1.03	ug/L	88
38) Tetrahydrofuran	4.524	42	2999m	1.53	ug/L	
39) Chloroform	4.554	83	14203m	1.01	ug/L	
40) 1,1,1-Trichloroethane	4.853	97	12034m	0.93	ug/L	
42) Cyclohexane	4.938	41	12999	1.19	ug/L	88
44) Carbontetrachloride	5.140	121	3207	0.82	ug/L #	57
45) 1,1-Dichloropropene	5.152	75	11169	0.97	ug/L	94
47) Benzene	5.499	78	31500	0.90	ug/L	85
48) 1,2-Dichloroethane	5.536	62	11579	1.00	ug/L #	69
49) Iso-Butyl Alcohol	5.499	43	5255	16.71	ug/L	99
50) TAME	5.737	73	17710	0.79	ug/L	89
51) n-Heptane	6.005	43	14724	1.22	ug/L #	77
52) 1-Butanol	6.523	56	5356m	29.83	ug/L	
53) Trichloroethene	6.493	130	9936	1.05	ug/L #	81
54) Methylcyclohexane	6.743	55	13670	1.05	ug/L #	61
55) 1,2-Dicloropropane	6.792	63	10481	1.13	ug/L	91
56) Dibromomethane	6.938	93	4764	1.02	ug/L #	78
57) 1,4-Dioxane	7.011	88	938	15.58	ug/L	99
58) Methyl Methacrylate	7.029	69	3437	0.76	ug/L	93
59) Bromodichloromethane	7.176	83	10273	0.88	ug/L	94
60) 2-Nitropropane	7.474	41	1936m	1.00	ug/L	
61) 2-Chloroethylvinyl Ether	7.590	63	4536	1.02	ug/L	74
62) cis-1,3-Dichloropropene	7.737	75	11015	0.79	ug/L	90
63) 4-Methyl-2-pentanone	7.950	43	8066	1.13	ug/L	92
65) Toluene	8.121	91	36698	0.99	ug/L	98
66) trans-1,3-Dichloropropene	8.395	75	9704	0.81	ug/L	85
67) Ethyl Methacrylate	8.541	69	6889	0.73	ug/L #	52
68) 1,1,2-Trichloroethane	8.590	97	6489	0.94	ug/L	83
71) Tetrachloroethene	8.736	164	8212	1.11	ug/L #	73
72) 2-Hexanone	8.889	43	4943	1.03	ug/L	87
73) 1,3-Dichloropropane	8.767	76	10844	1.03	ug/L	83
74) Dibromochloromethane	9.005	129	6888	0.83	ug/L	94
75) N-Butyl Acetate	9.053	43	10781	0.90	ug/L	91
76) 1,2-Dibromoethane	9.102	107	5746	0.90	ug/L #	62
77) 3-Chlorobenzotrifluoride	9.627	180	14328	1.00	ug/L	90
78) Chlorobenzene	9.602	112	24175	0.99	ug/L	97
79) 4-Chlorobenzotrifluoride	9.681	180	11299	0.87	ug/L	86
80) 1,1,1,2-Tetrachloroethane	9.694	131	7970	0.87	ug/L	97
81) Ethylbenzene	9.724	106	12336	0.95	ug/L #	81
82) (m+p)Xylene	9.840	106	28721	1.82	ug/L #	69
83) o-Xylene	10.206	106	14955	0.95	ug/L	97
84) Styrene	10.218	104	24583	0.91	ug/L	96
85) Bromoform	10.370	173	3300	0.64	ug/L	93
86) 2-Chlorobenzotrifluoride	10.462	180	12137	0.86	ug/L	94
87) Isopropylbenzene	10.547	105	37221	0.96	ug/L	94
88) Cyclohexanone	10.608	55	7145	13.93	ug/L	89
89) trans-1,4-Dichloro-2-B...	10.858	53	2740	1.04	ug/L #	53
91) 1,1,2,2-Tetrachloroethane	10.809	83	7227	0.96	ug/L	93
92) Bromobenzene	10.797	156	10774	1.02	ug/L	95
93) 1,2,3-Trichloropropane	10.840	110	2277	1.08	ug/L #	81

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 07 10:01:27 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	47573	1.10	ug/L	93
95) 2-Chlorotoluene	10.968	91	27433	1.00	ug/L	96
96) 3-Chlorotoluene	11.023	91	29362	1.01	ug/L	98
97) 4-Chlorotoluene	11.065	91	30760	0.95	ug/L	96
98) 1,3,5-Trimethylbenzene	11.065	105	31735	0.98	ug/L	97
99) tert-Butylbenzene	11.340	119	28637	1.02	ug/L	92
100) 1,2,4-Trimethylbenzene	11.376	105	33665	1.01	ug/L	87
101) 3,4-Dichlorobenzotrifl...	11.443	214	10012	0.96	ug/L	81
102) sec-Butylbenzene	11.522	105	39320	1.03	ug/L	98
103) p-Isopropyltoluene	11.644	119	33292	0.99	ug/L	99
104) 1,3-Dclbenz	11.602	146	21445	1.03	ug/L	98
105) 1,4-Dclbenz	11.681	146	22460	1.04	ug/L	96
106) 2,4-Dichlorobenzotrifl...	11.736	214	9950	1.03	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.772	214	10775	1.01	ug/L	93
108) n-Butylbenzene	11.980	91	29904	1.00	ug/L	93
109) 1,2-Dclbenz	11.986	146	20173	1.04	ug/L	92
110) 1,2-Dibromo-3-chloropr...	12.608	157	1570	1.04	ug/L #	62
111) Trielution Dichlorotol...	12.730	125	50381	2.93	ug/L	97
112) 1,3,5-Trichlorobenzene	12.784	180	14656	1.01	ug/L	98
113) Coelution Dichlorotoluene	13.059	125	36604	2.05	ug/L	92
114) 1,2,4-Tcbenzene	13.266	180	13558	1.11	ug/L	90
115) Hexachlorobt	13.406	225	5569	1.02	ug/L	84
116) Naphthalen	13.461	128	21011	0.98	ug/L	98
117) 1,2,3-Tclbenzene	13.644	180	9814	1.08	ug/L	91
118) 2,4,5-Trichlorotoluene	14.235	159	7458	1.26	ug/L	85
119) 2,3,6-Trichlorotoluene	14.321	159	6014	1.19	ug/L	89

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Misc :

Inst : MSVOA10

ALS Vial : 4 Sample Multiplier: 1

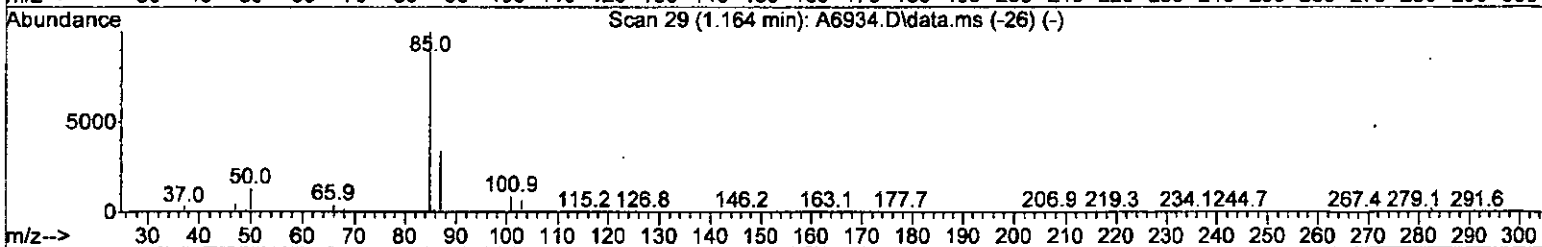
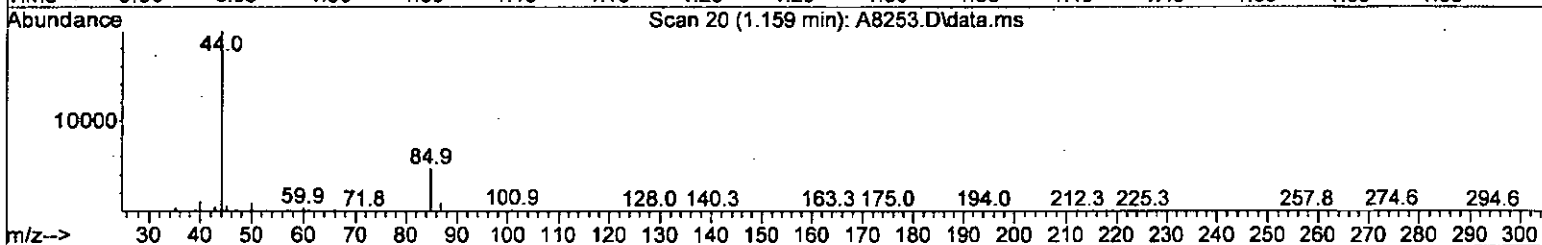
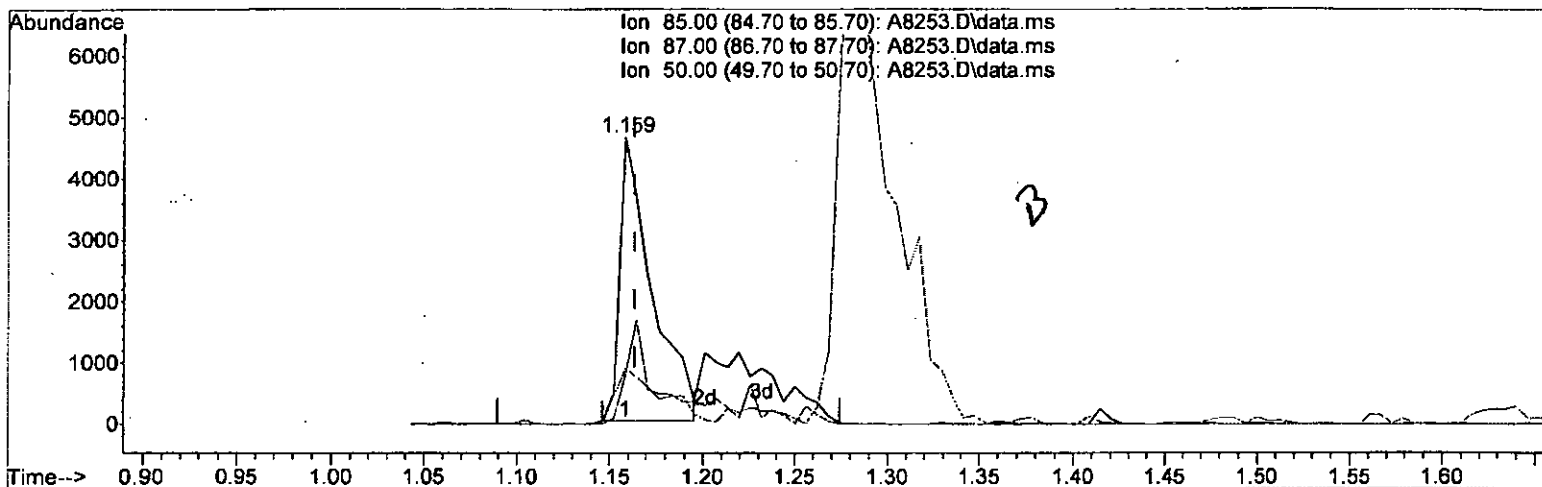
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (-0.005) 0.64 ug/L

response 5560

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	17.34
50.00	15.00	19.50
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Misc :

ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

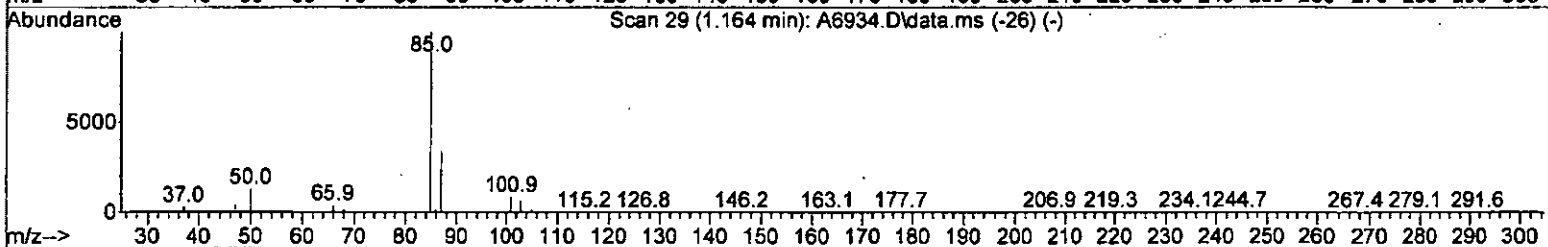
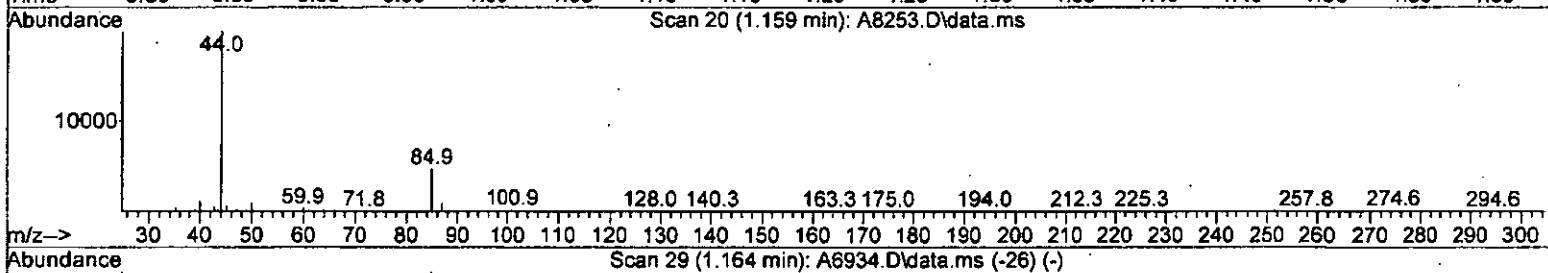
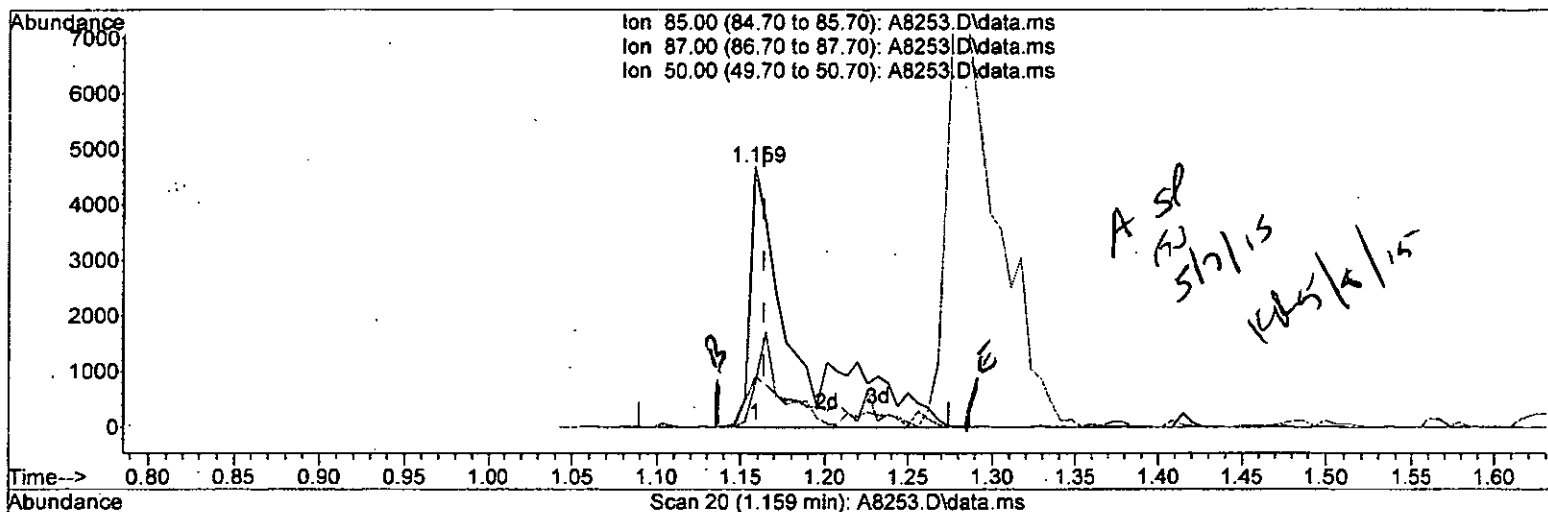
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (-0.005) 1.02 ug/L m

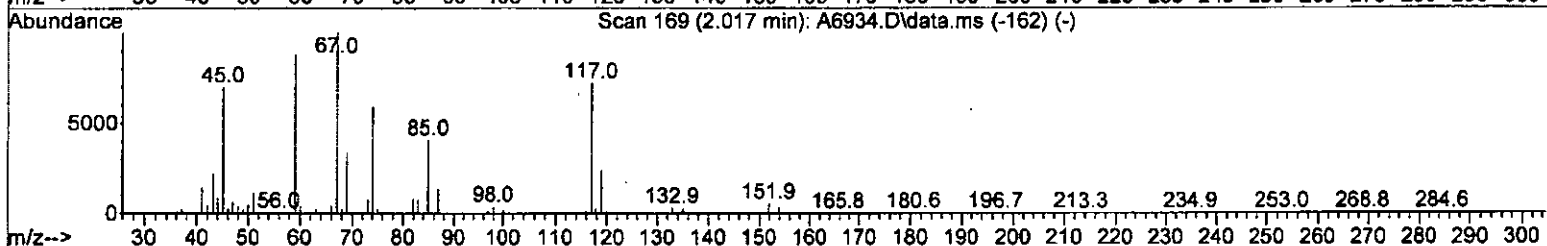
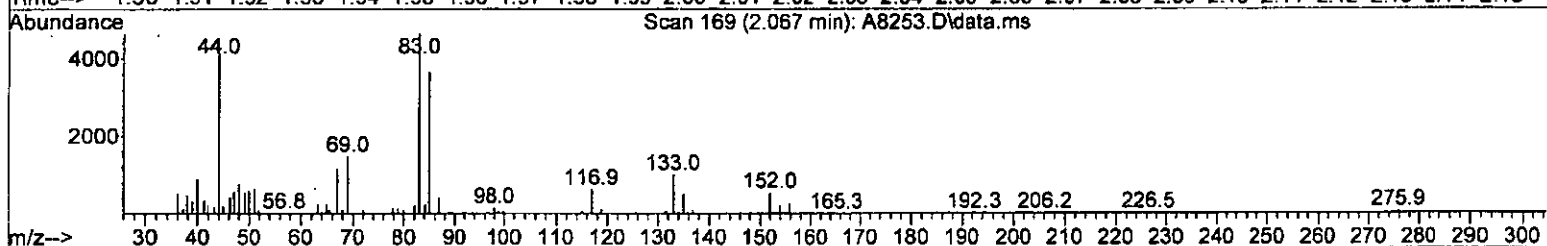
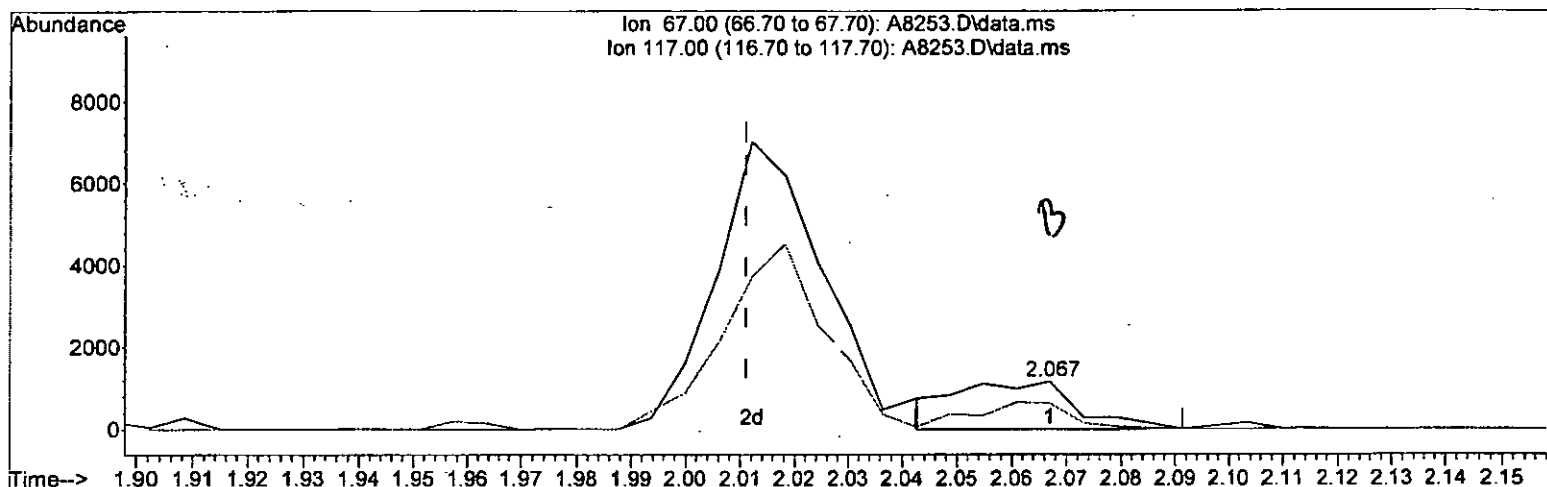
response 8914

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	17.34
50.00	15.00	19.50
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(10) Freon 123a
 2.067min (+0.056) 0.18 ug/L
 response 1754

Ion	Exp%	Act%
67.00	100	100
117.00	72.50	53.97
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 4 Sample Multiplier: 1

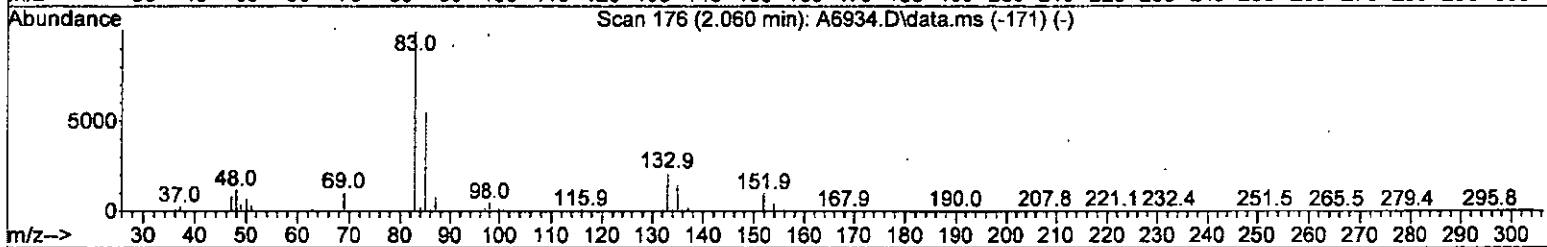
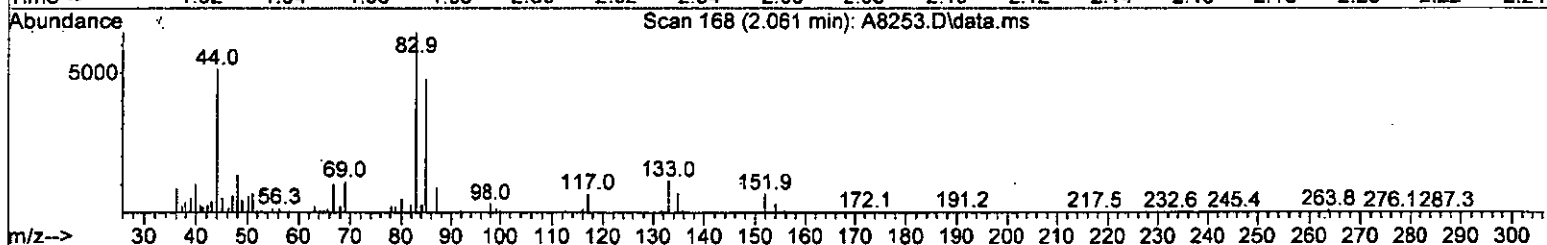
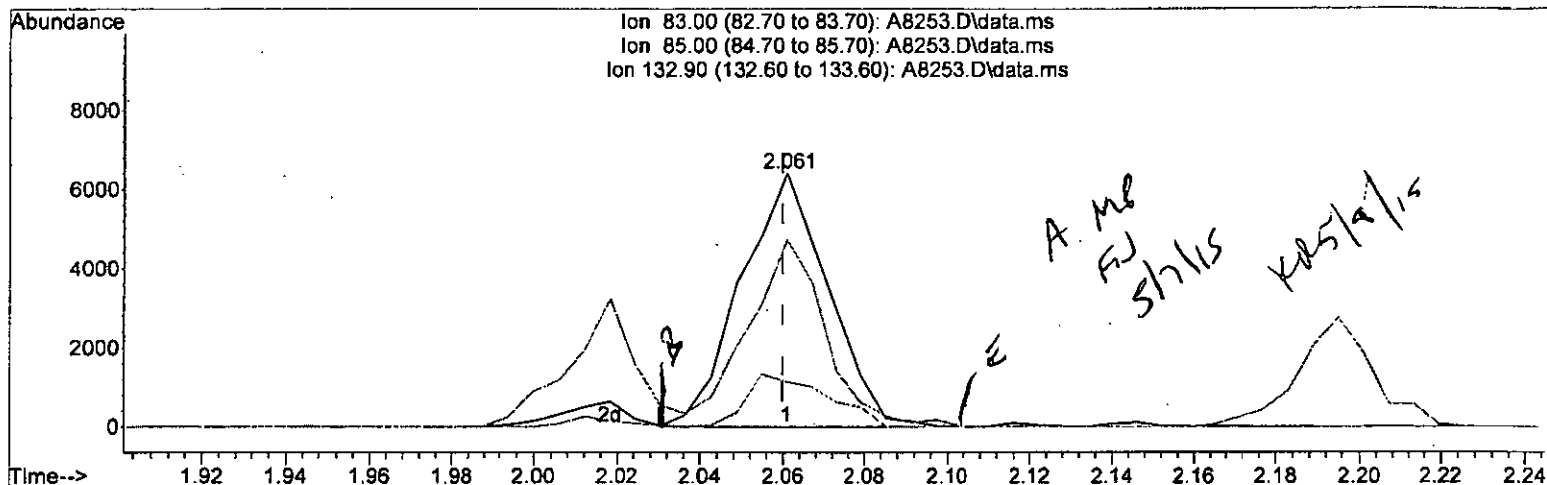
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(11) Freon 123

2.061min (+0.001) 0.85 ug/L

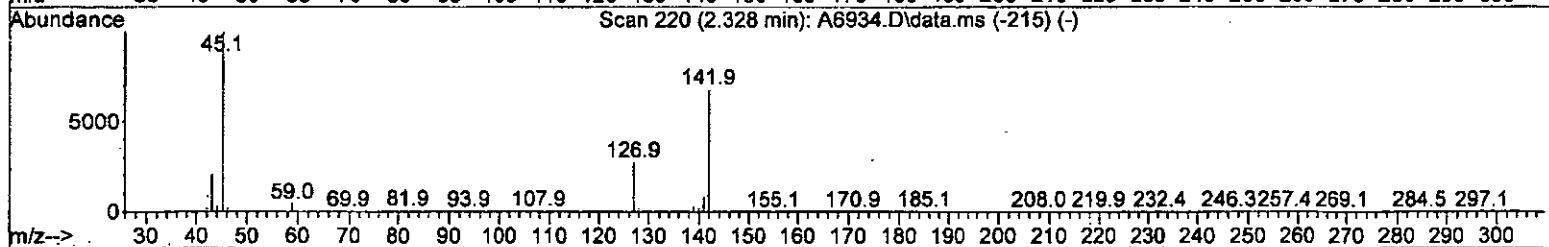
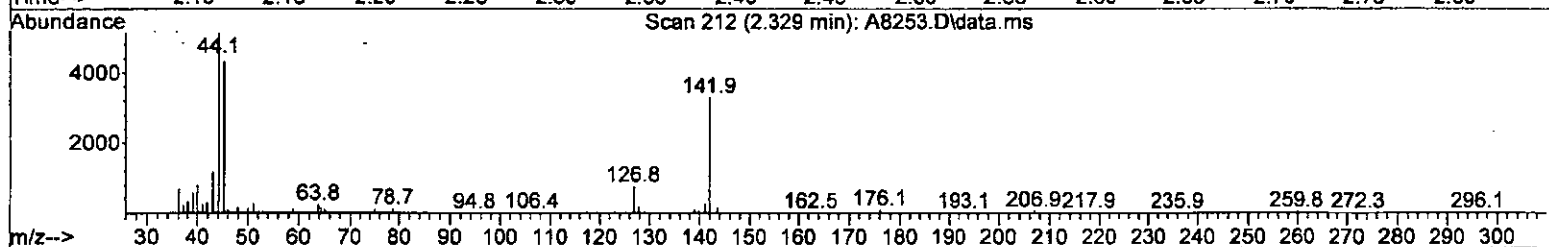
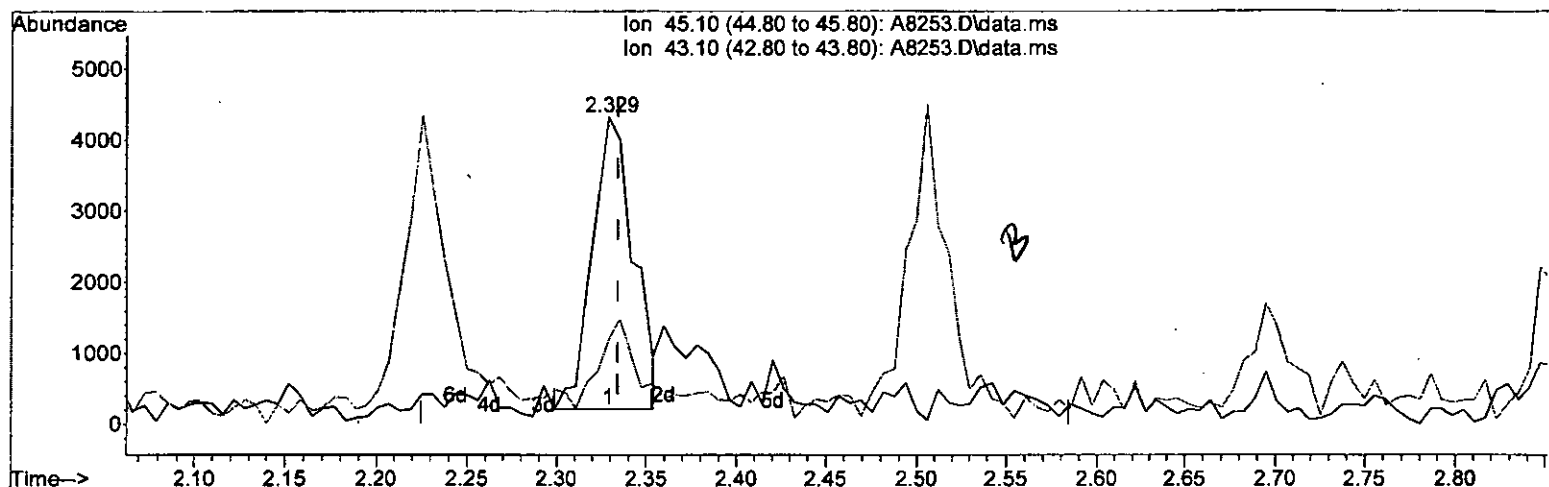
response 9353

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	73.93#
132.90	19.90	17.67
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(16) 2-Propanol

2.329min (-0.005) 16.41 ug/L

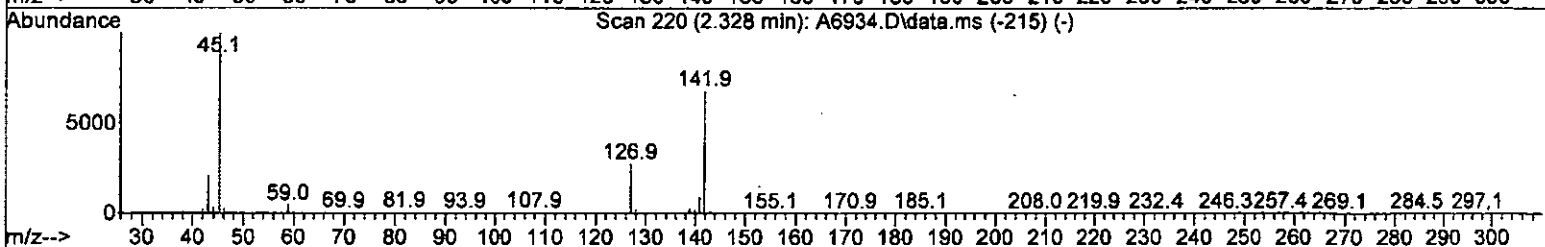
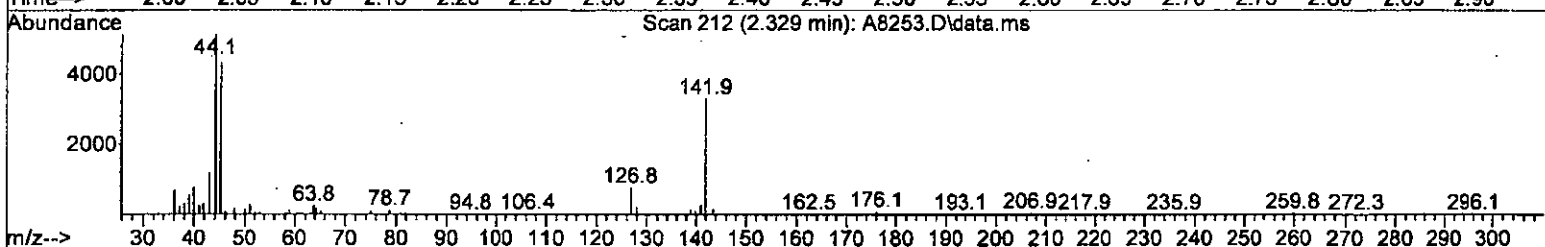
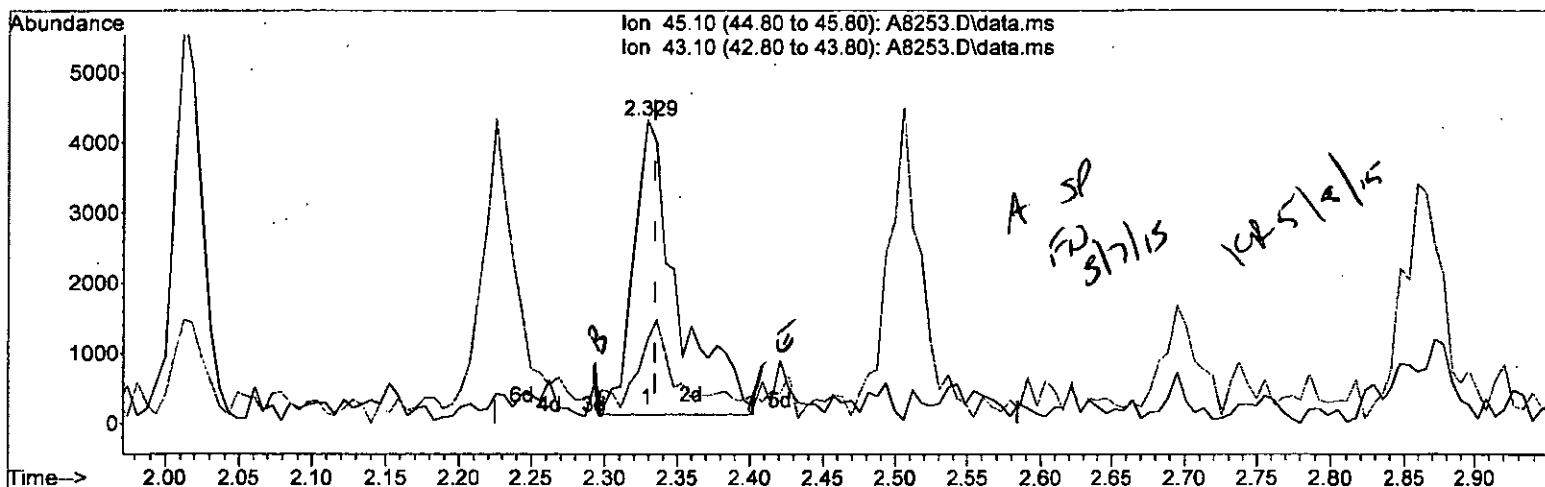
response 6520

Ion	Exp%	Act%
45.10	100	100
43.10	18.20	27.41
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(16) 2-Propanol

2.329min (-0.005) 22.41 ug/L m

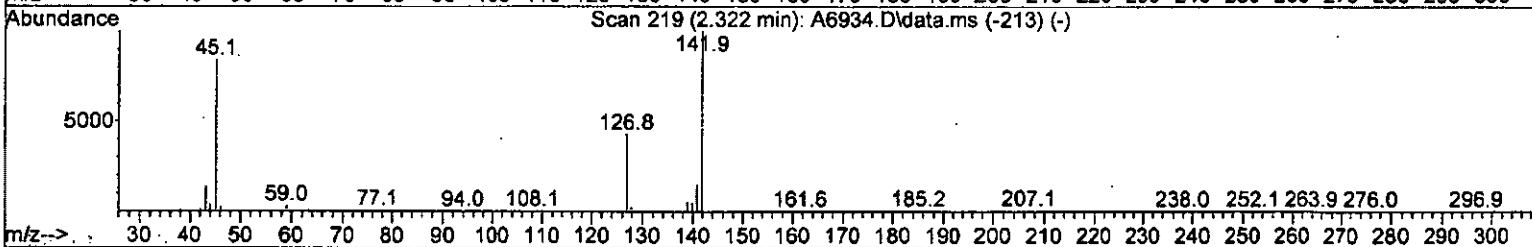
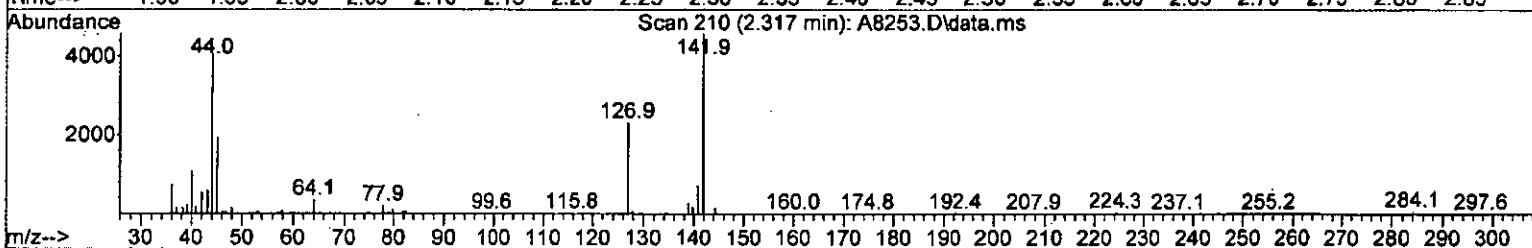
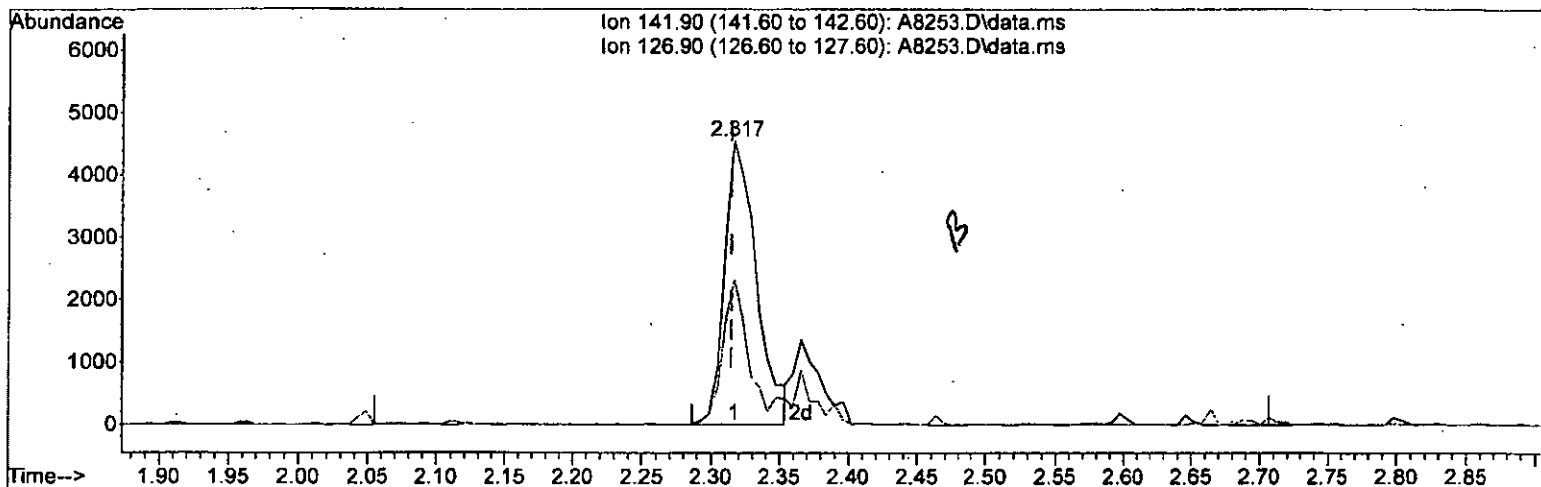
response 8902

Ion	Exp%	Act%
45.10	100	100
43.10	18.20	27.41
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8253.D
Acq On : 6 May 2015 5:01 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:18:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



TIC: A8253.D\data.ms

(17) Iodomethane

2.317min (+0.002) 1.55 ug/L

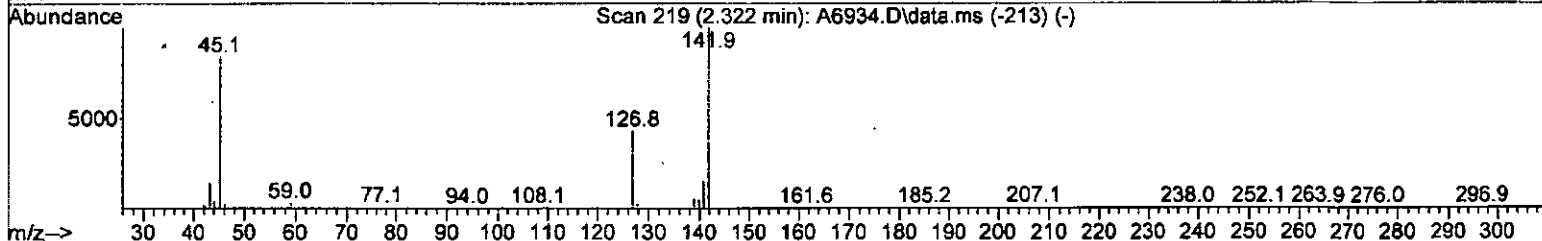
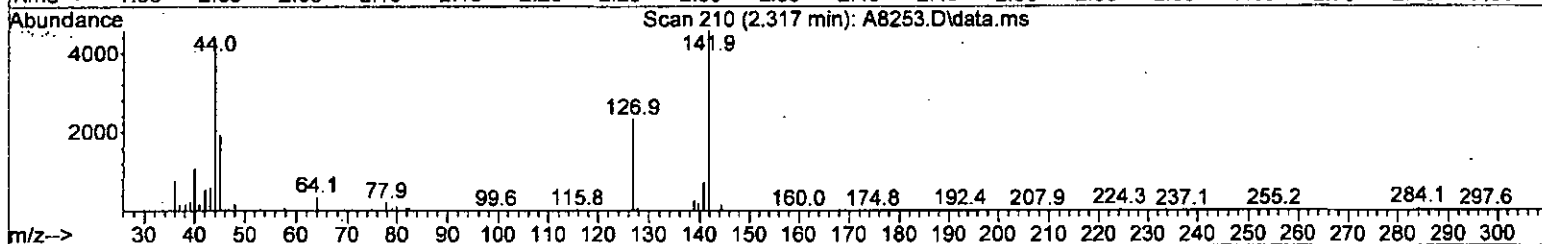
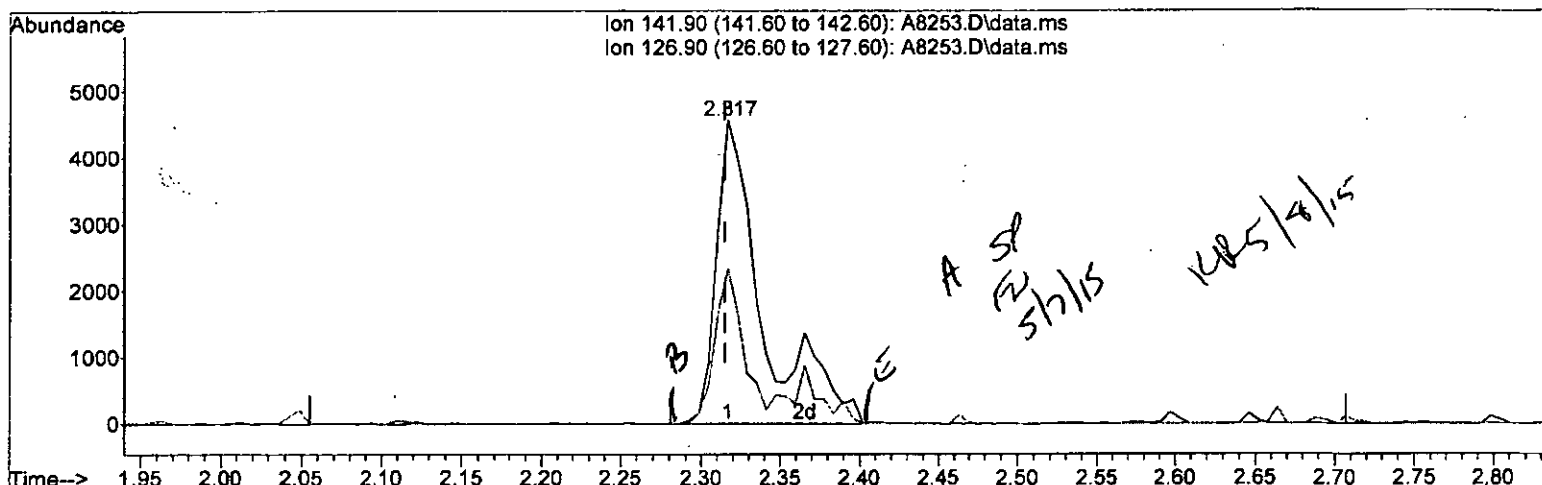
response 7324

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	50.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1.

Inst : MSVOA10

Quant Time: May 07 09:18:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(17) Iodomethane

2.317min (+0.002) 1.95 ug/L m

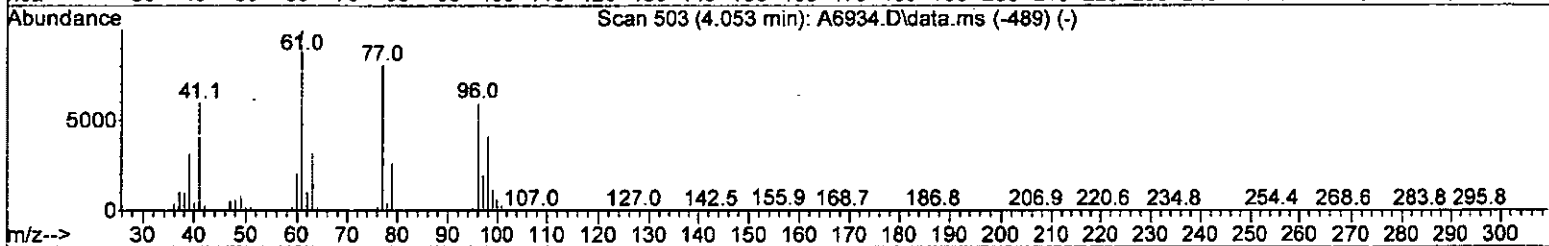
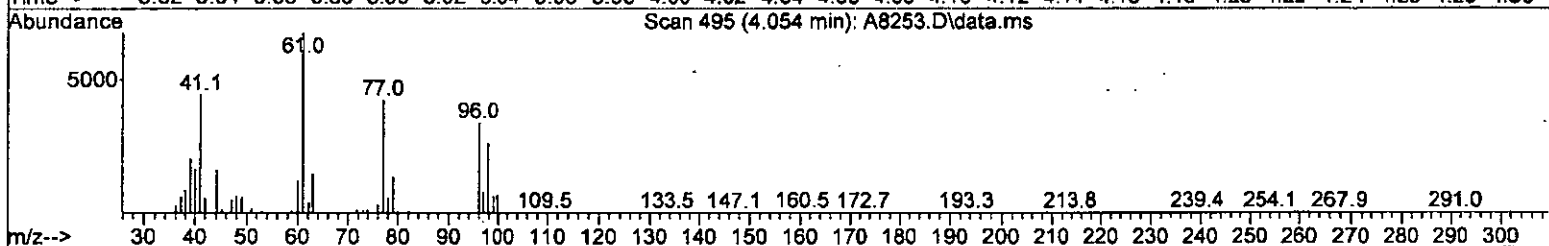
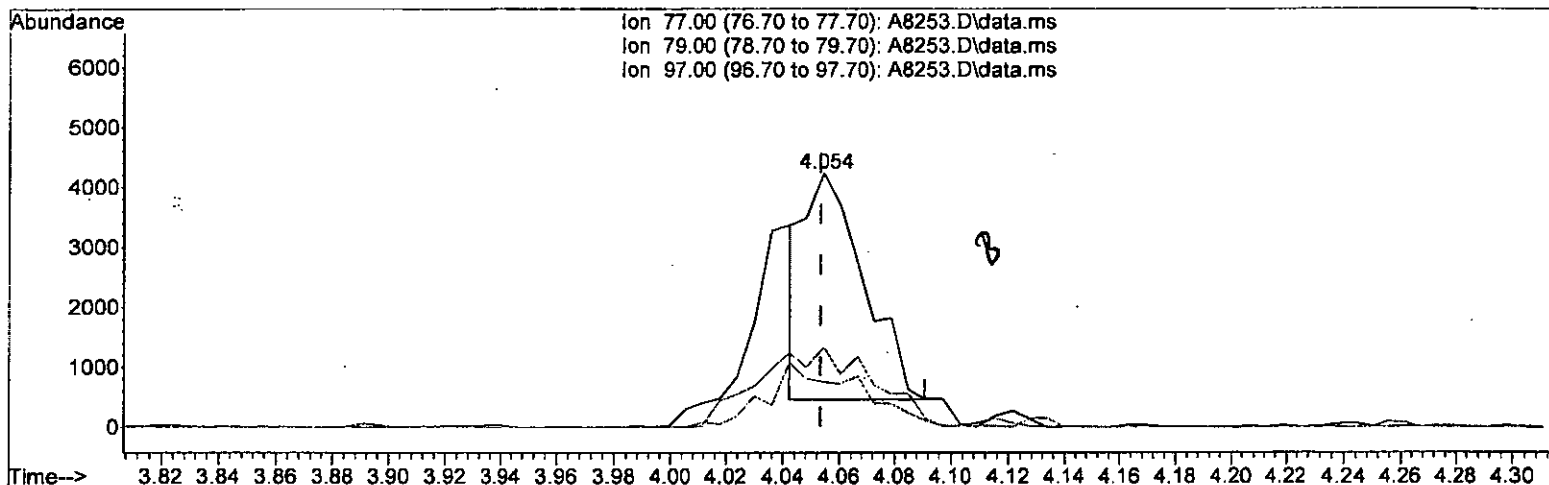
response 9219

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	50.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(32) 2,2-Dichloropropane

4.054min (+0.001) 0.48 ug/L

response 5546

Ion	Exp%	Act%
77.00	100	100
79.00	32.50	31.54
97.00	21.80	17.86
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Misc :

Inst : MSVOA10

ALS Vial : 4 Sample Multiplier: 1

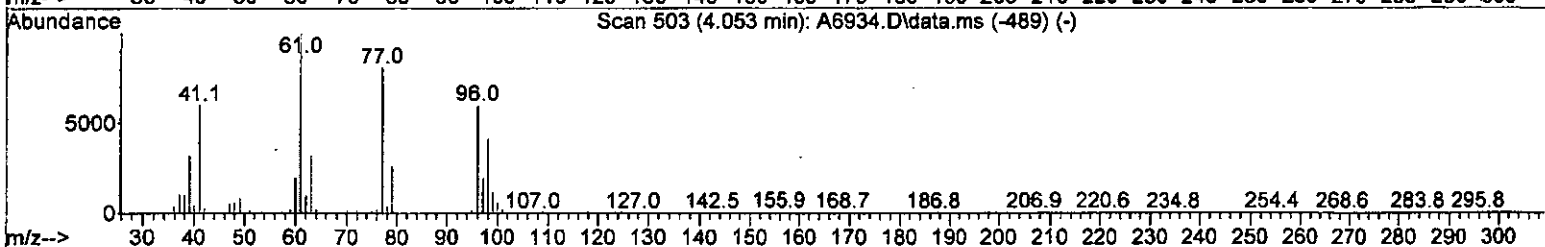
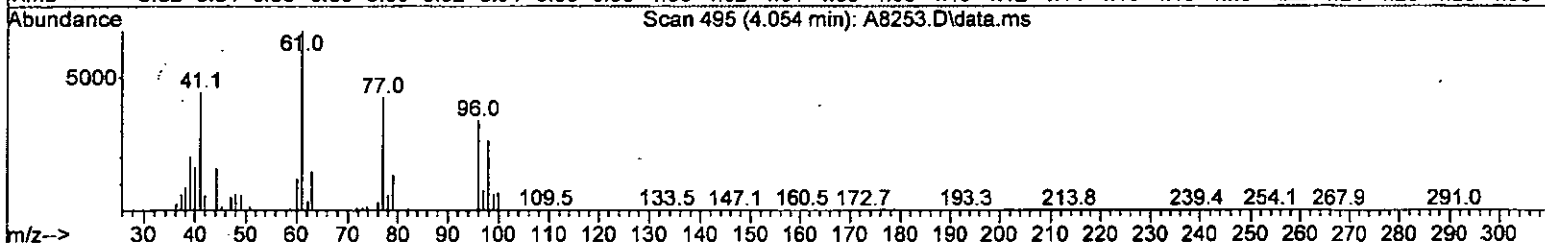
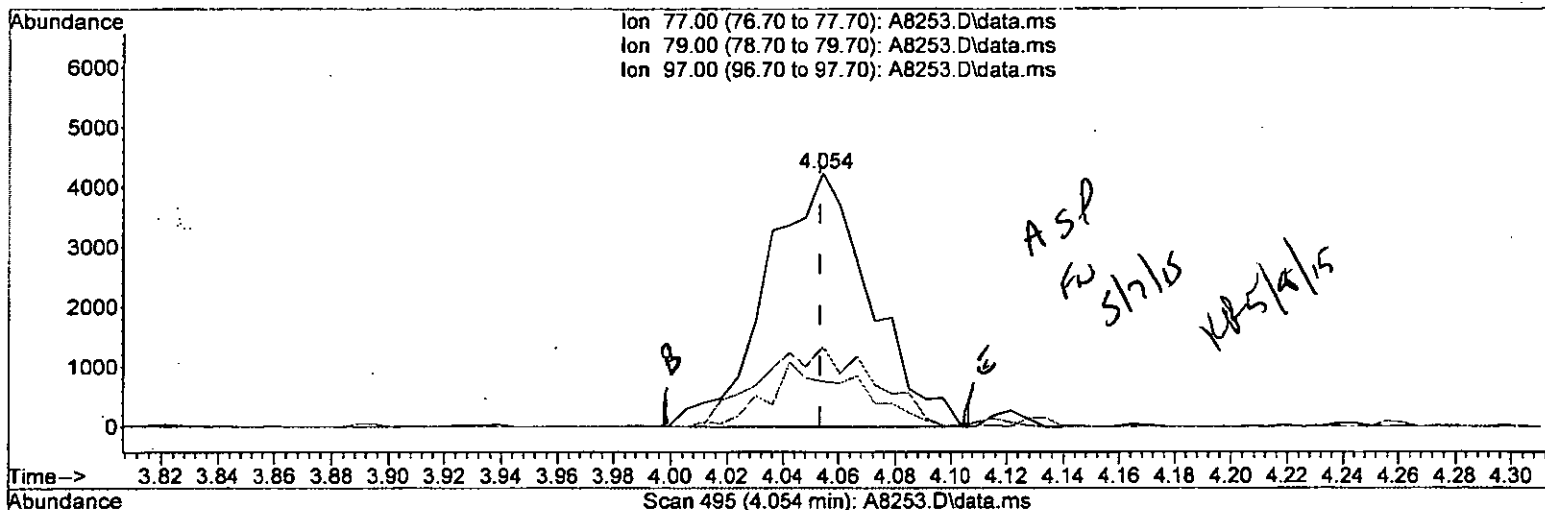
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(32) 2,2-Dichloropropane

4.054min (+0.001) 0.93 ug/L m

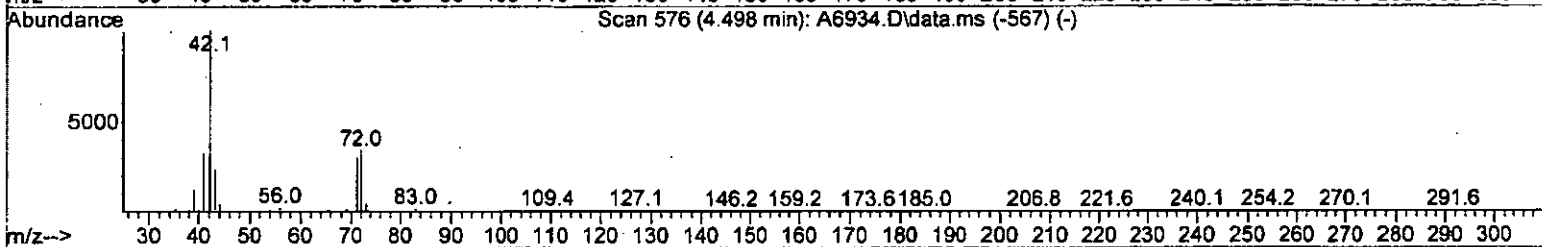
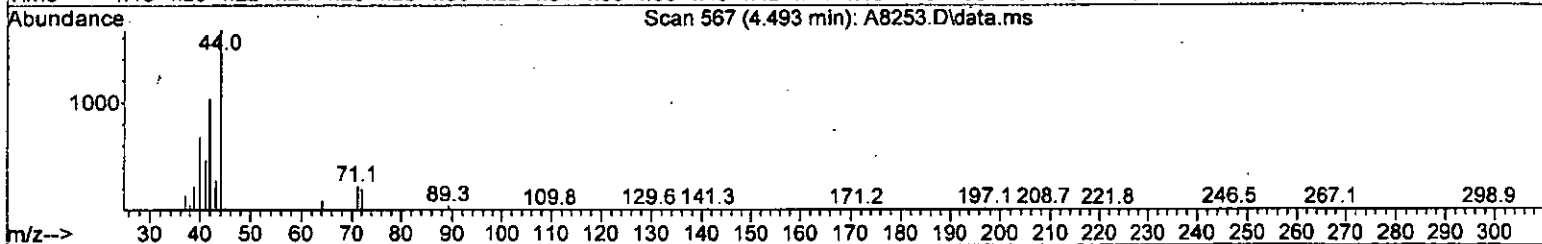
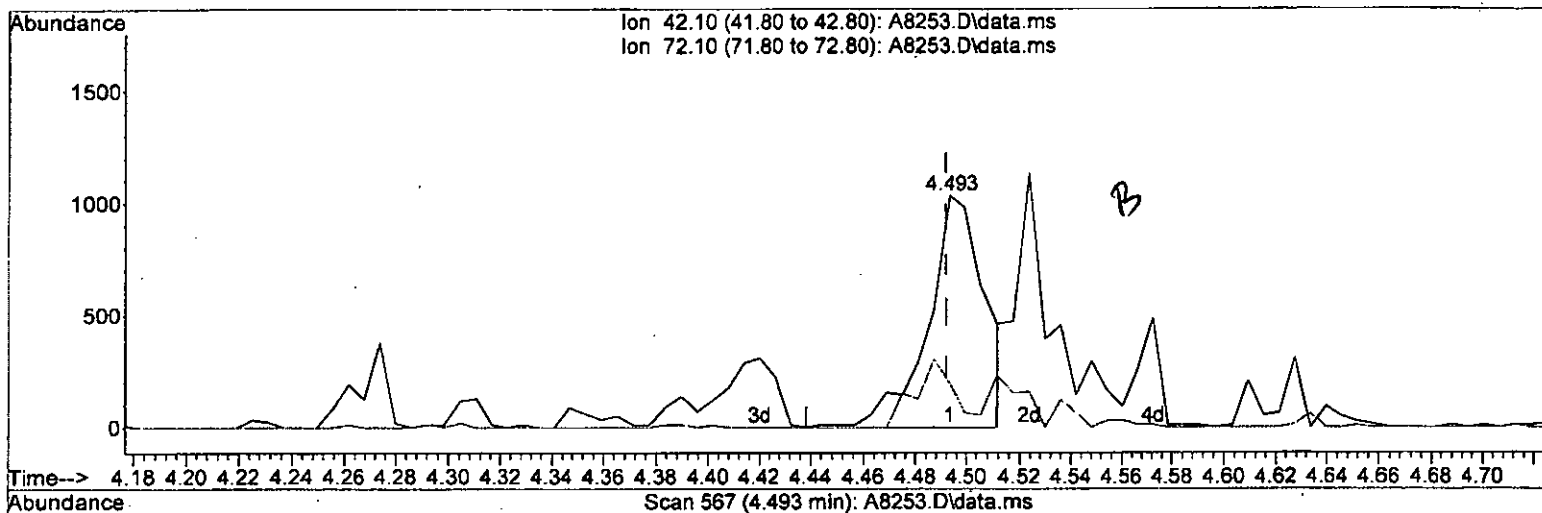
response 10893

Ion	Exp%	Act%
77.00	100	100
79.00	32.50	31.54
97.00	21.80	17.86
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(38) Tetrahydrofuran

4.493min (+0.001) 0.81 ug/L

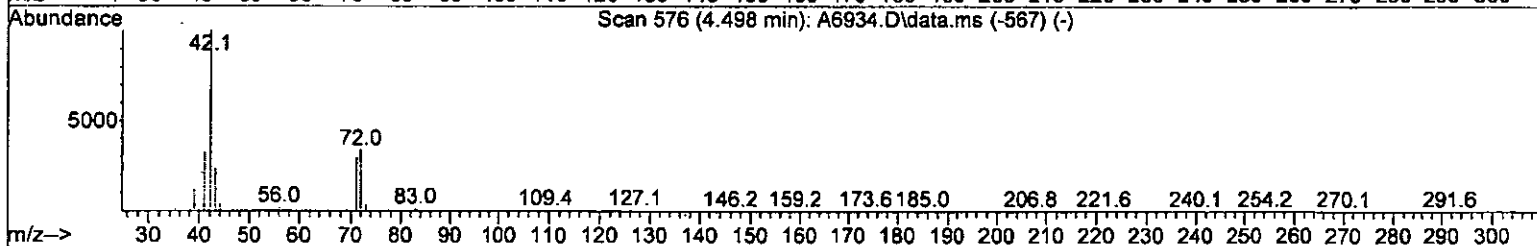
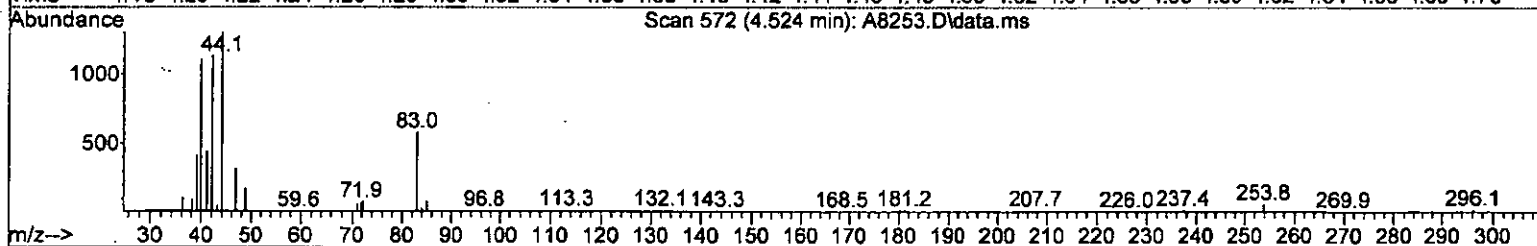
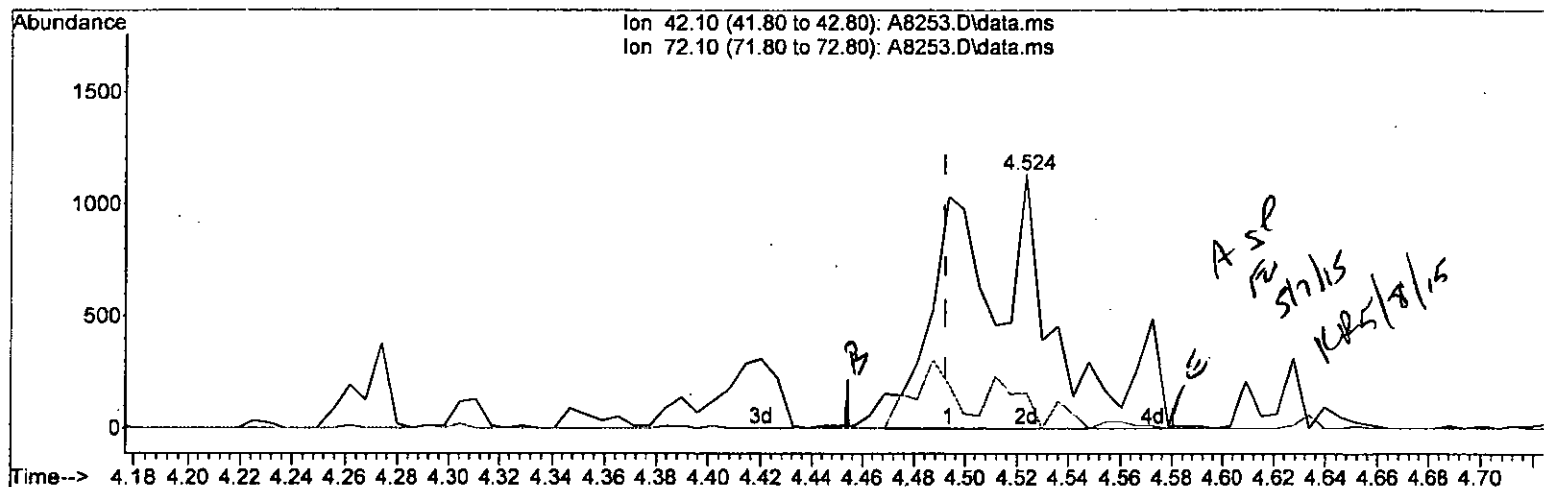
response 1577

Ion	Exp%	Act%
42.10	100	100
72.10	40.30	18.78#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(38) Tetrahydrofuran

4.524min (+0.032) 1.53 ug/L m

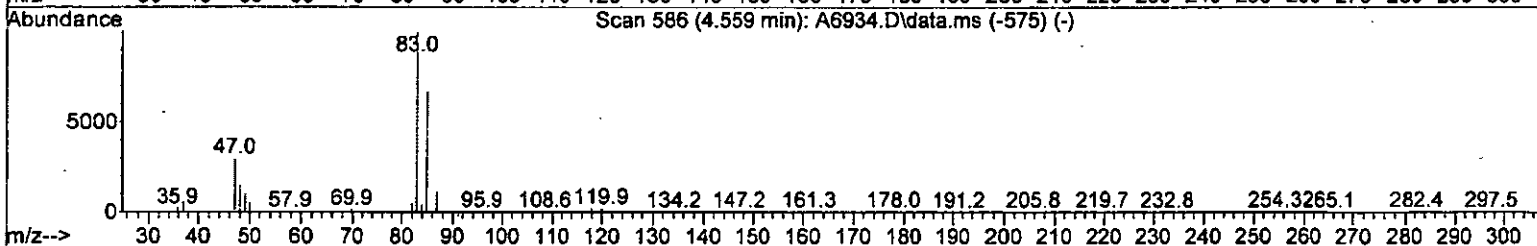
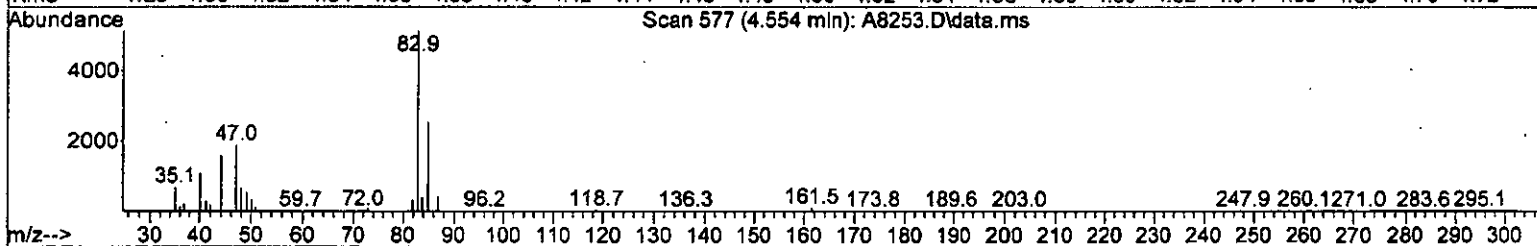
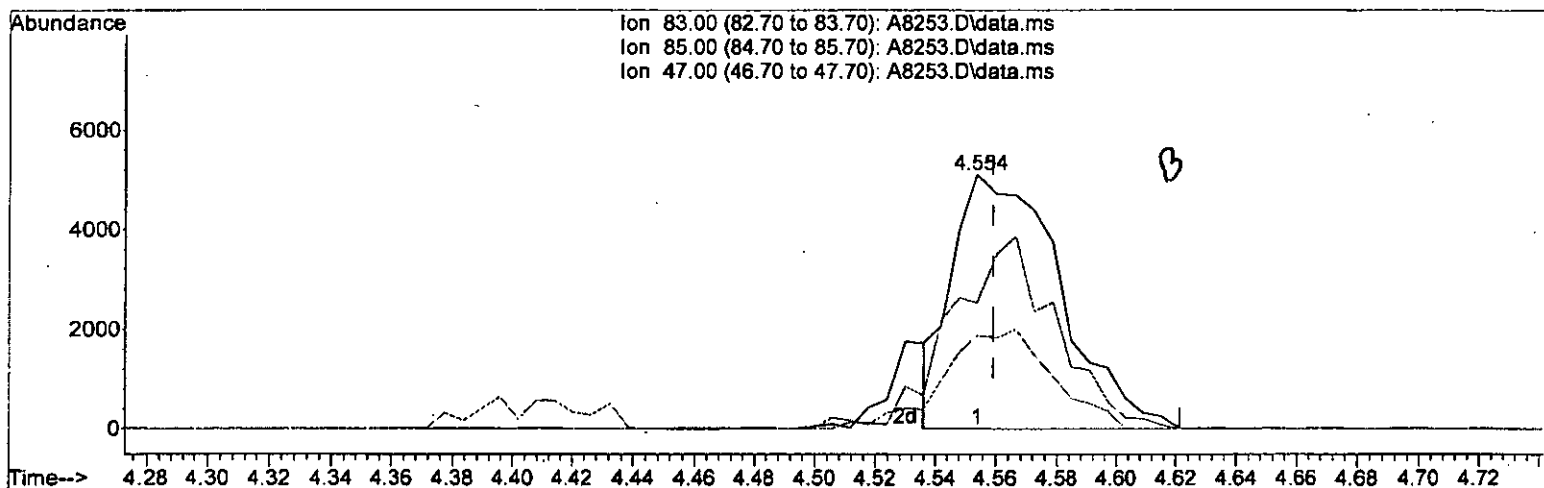
response 2999

Ion	Exp%	Act%
42.10	100	100
72.10	40.30	7.42#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(39) Chloroform (P)

4.554min (-0.005) 0.89 ug/L

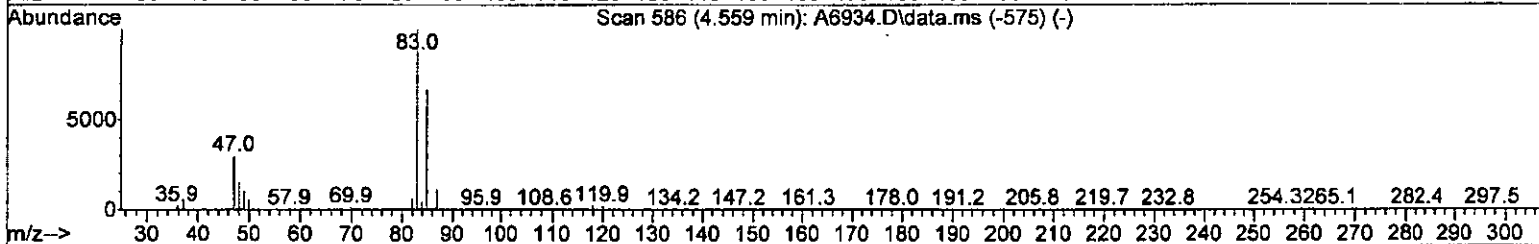
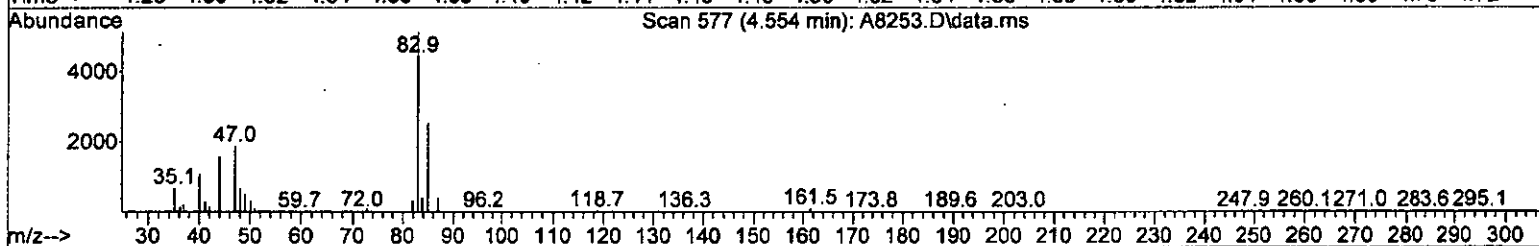
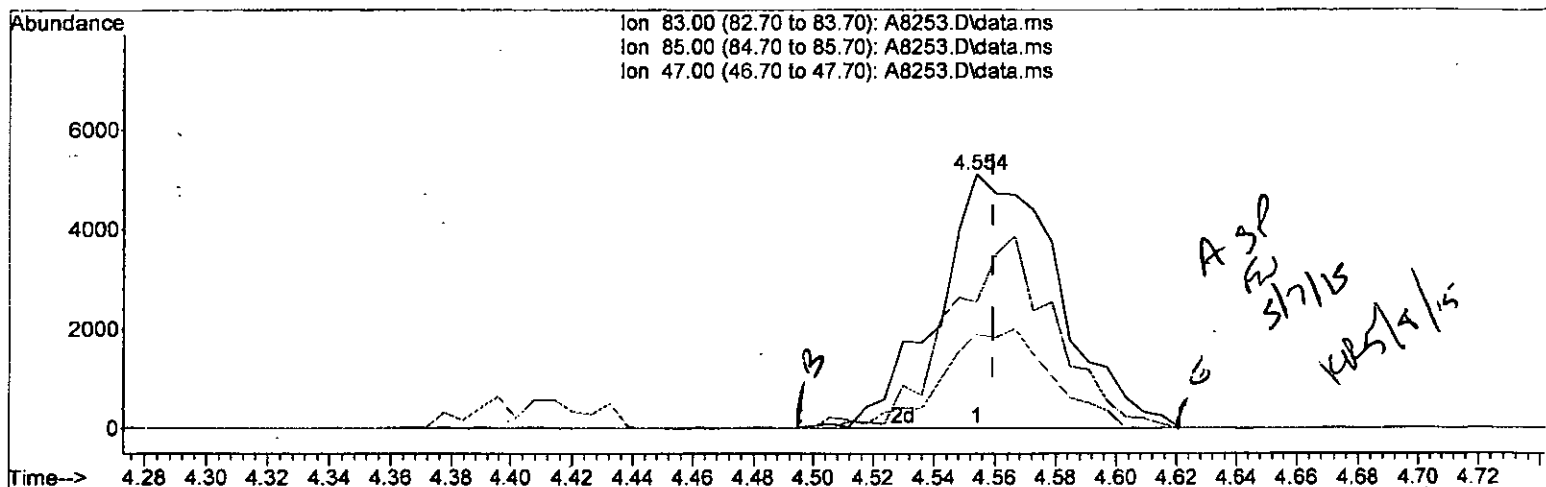
response 12510

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	49.62
47.00	29.90	36.74
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(39) Chloroform (P)

4.554min (-0.005) 1.01 ug/L m

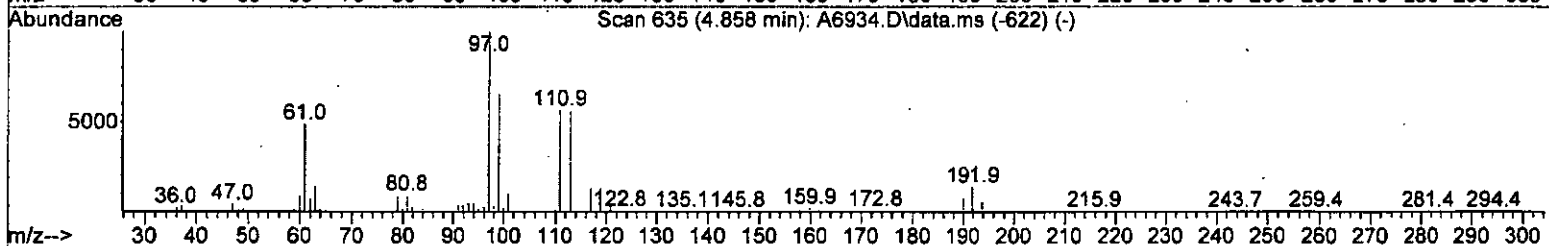
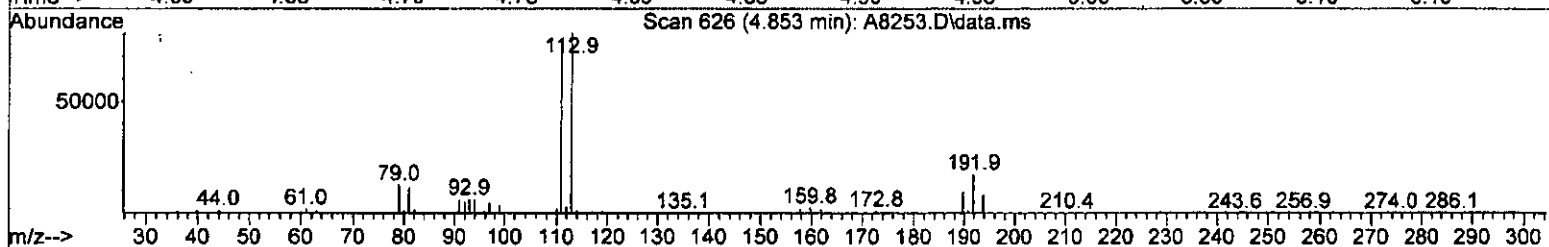
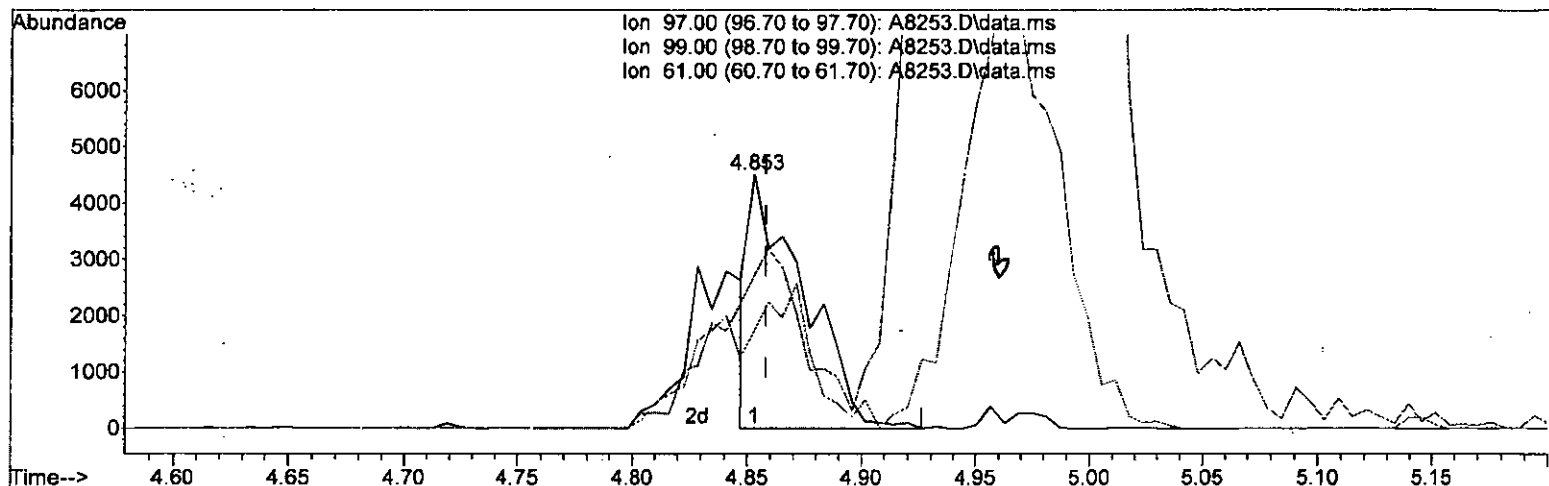
response 14203

Ion	Exp%	Act%
83.00	100	100
85.00	64.00	49.62
47.00	29.90	36.74
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.853min (-0.005) 0.58 ug/L

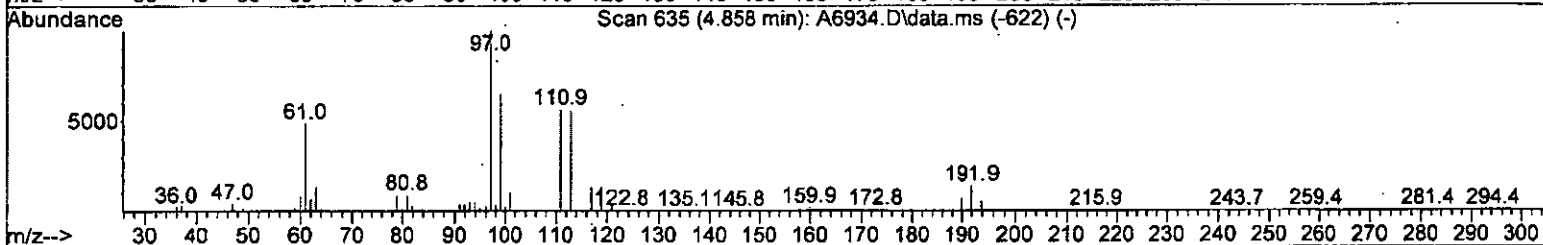
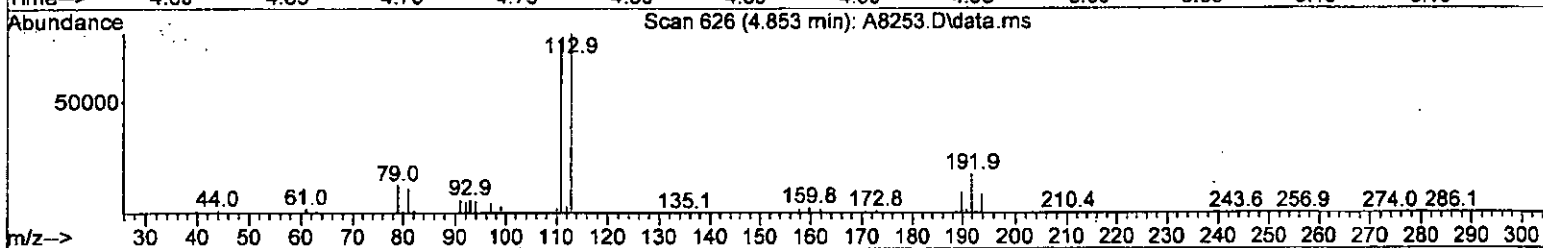
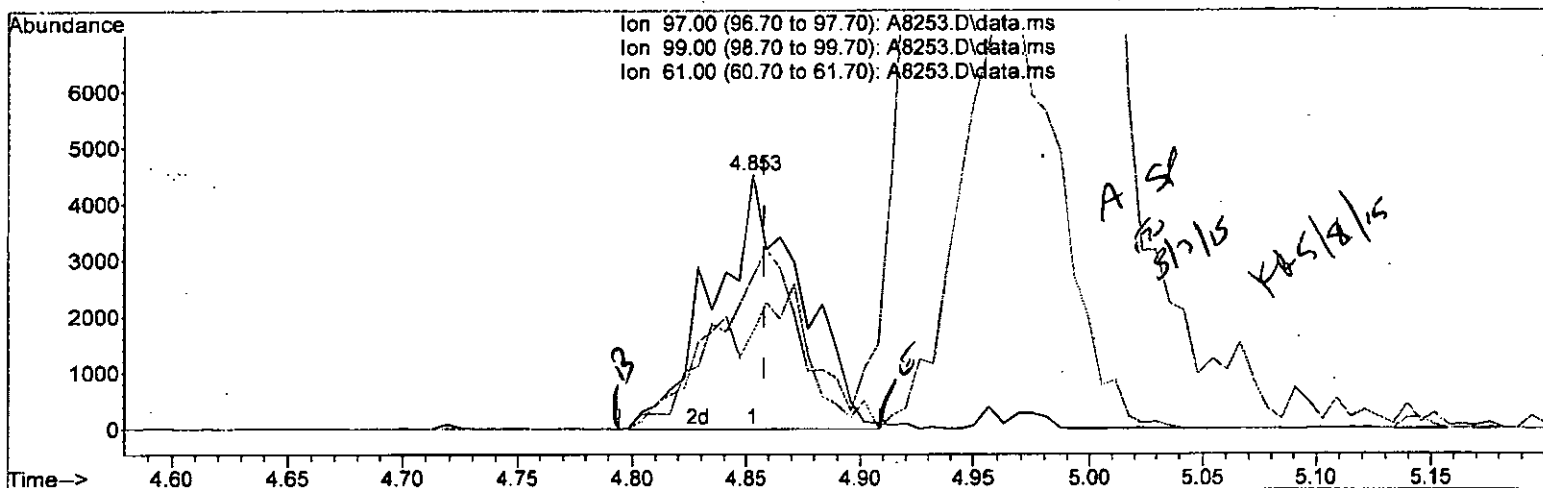
response 7436

Ion	Exp%	Act%
97.00	100	100
99.00	60.90	60.30
61.00	45.20	42.98
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(40) 1,1,1-Trichloroethane (P)

4.853min (-0.005) 0.93 ug/L m

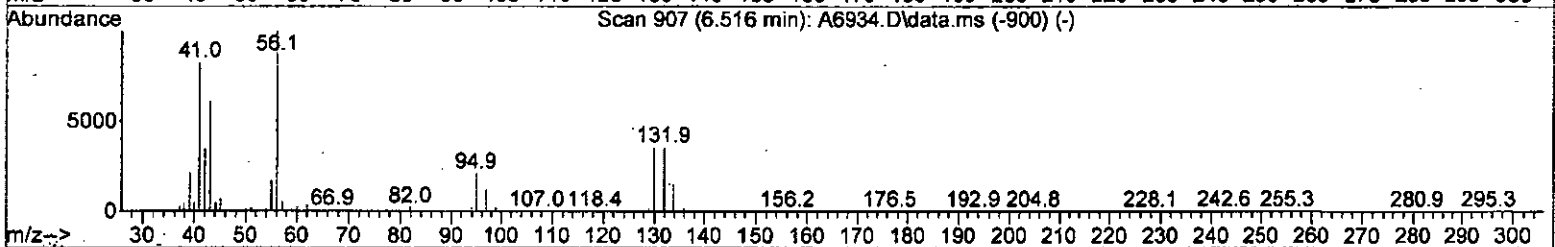
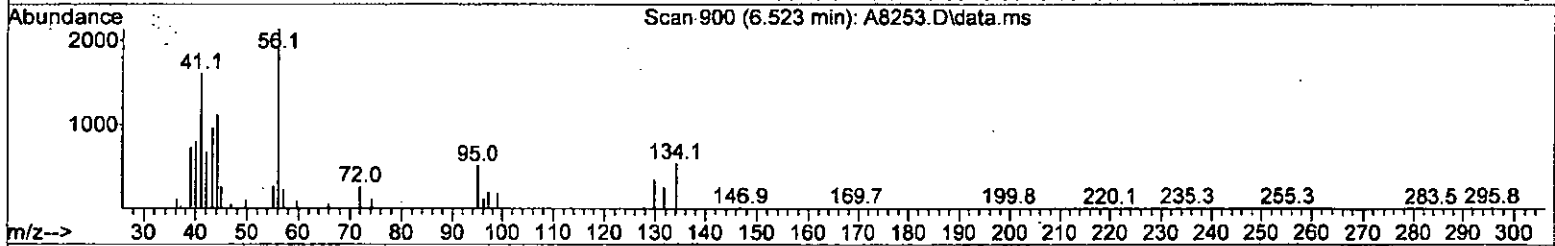
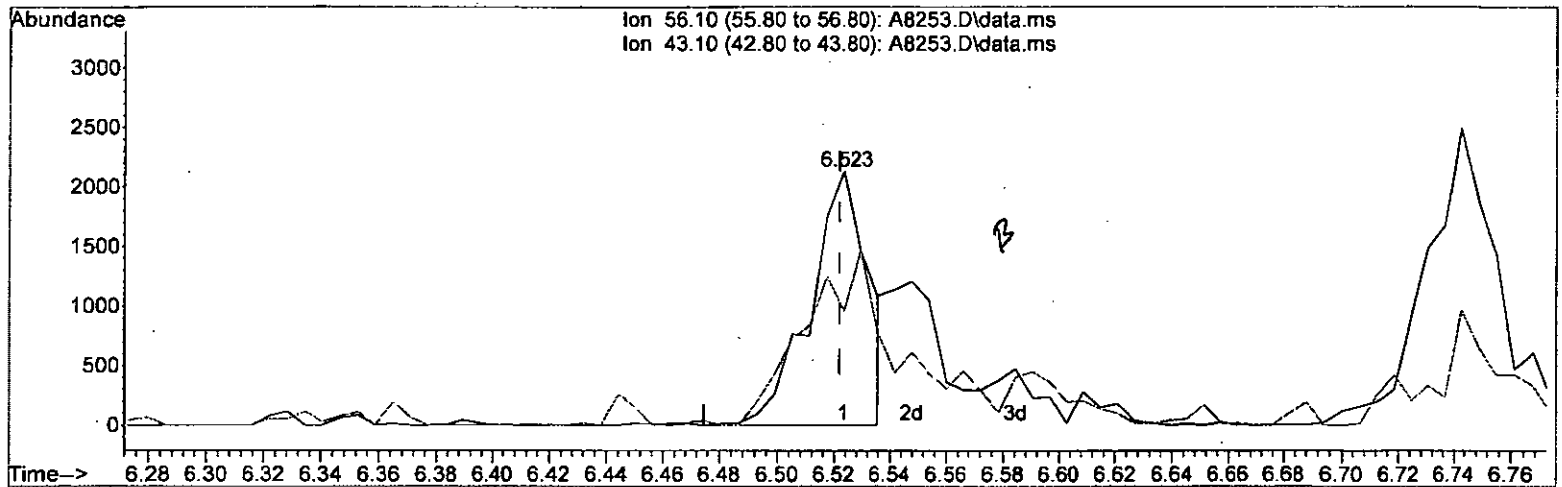
response 12034

Ion	Exp%	Act%
97.00	100	100
99.00	60.90	60.30
61.00	45.20	38.37
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:16:18 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(52) 1-Butanol

6.523min (+0.001) 16.94 ug/L

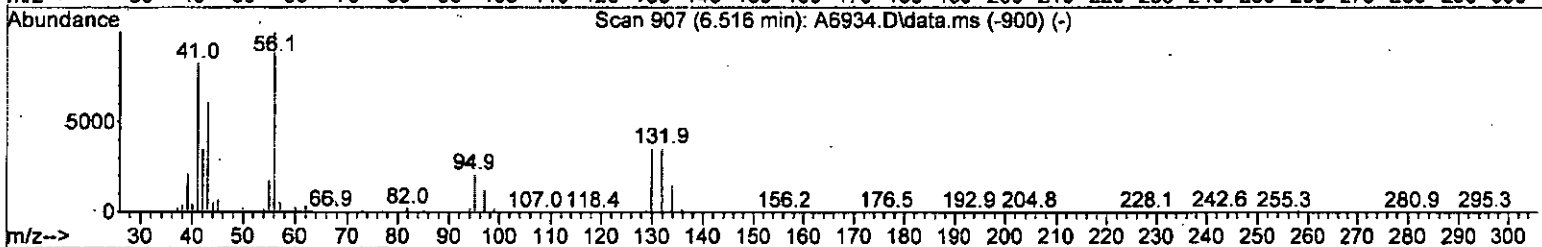
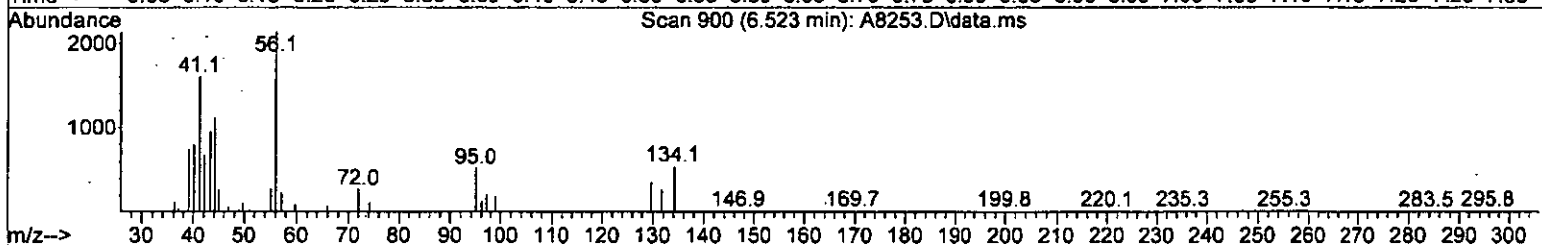
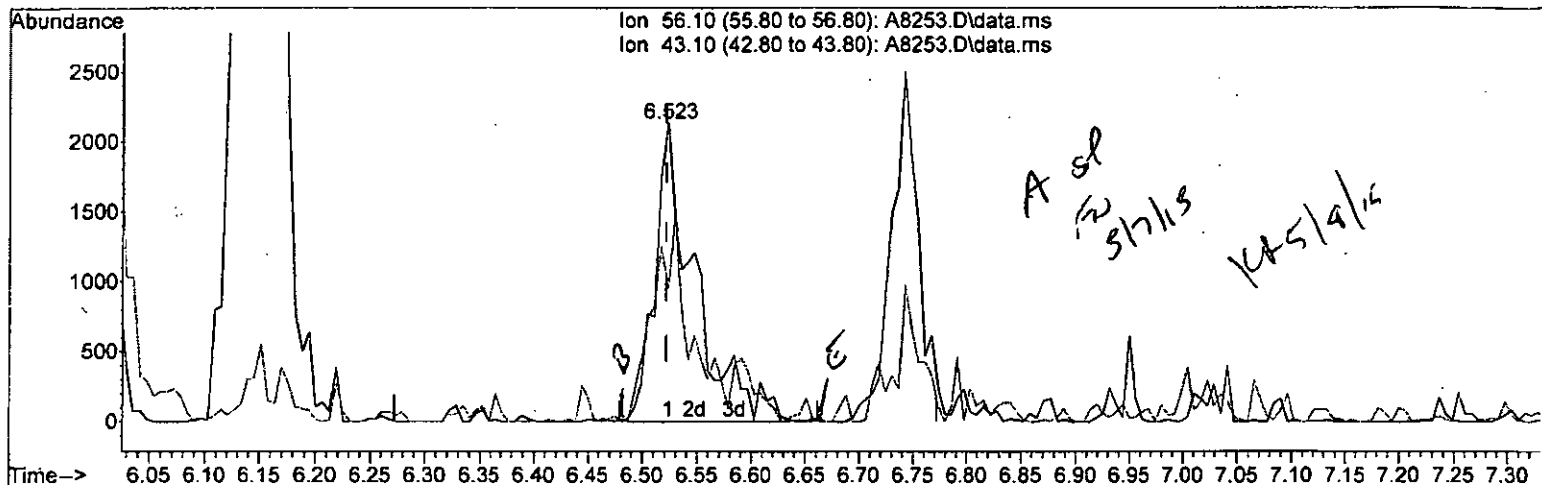
response 3042

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	44.86
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8253.D
 Acq On : 6 May 2015 5:01 pm
 Operator : F. NAEGLER
 Sample : 1.0 PPB STD
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:18:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8253.D\data.ms

(52) 1-Butanol

6.523min (+0.001) 29.83 ug/L m

response 5356

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	44.86
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Misc :

Inst : MSVOA10

ALS Vial : 4 Sample Multiplier: 1

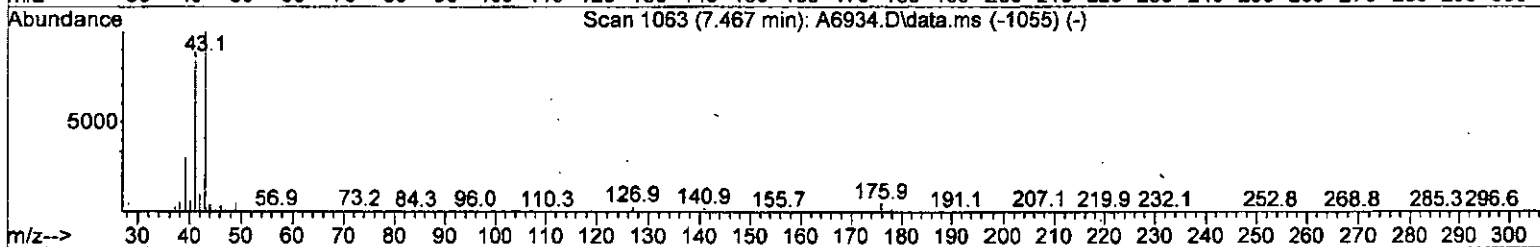
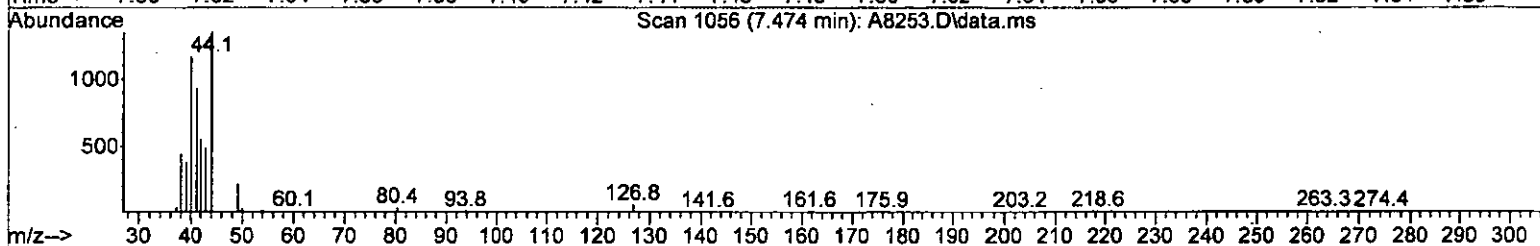
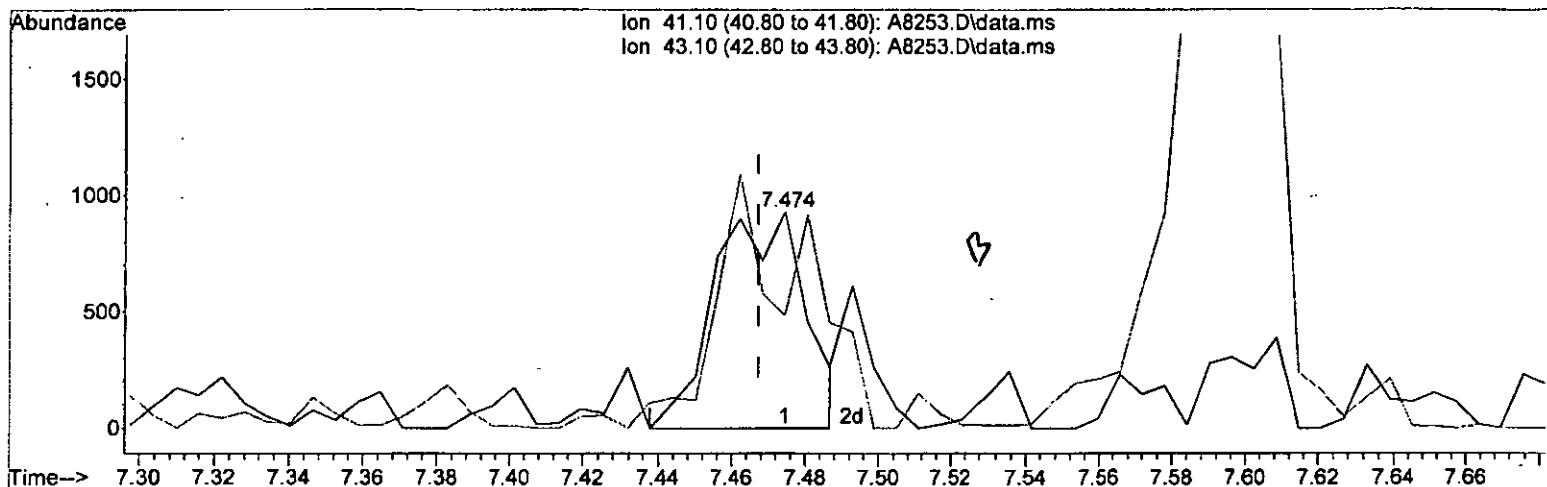
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(60) 2-Nitropropane

7.474min (+0.007) 0.82 ug/L

response 1587

Ion	Exp%	Act%
41.10	100	100
43.10	111.20	52.21#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8253.D

Acq On : 6 May 2015 5:01 pm

Operator : F. NAEGLER

Sample : 1.0 PPB STD

Misc :

ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

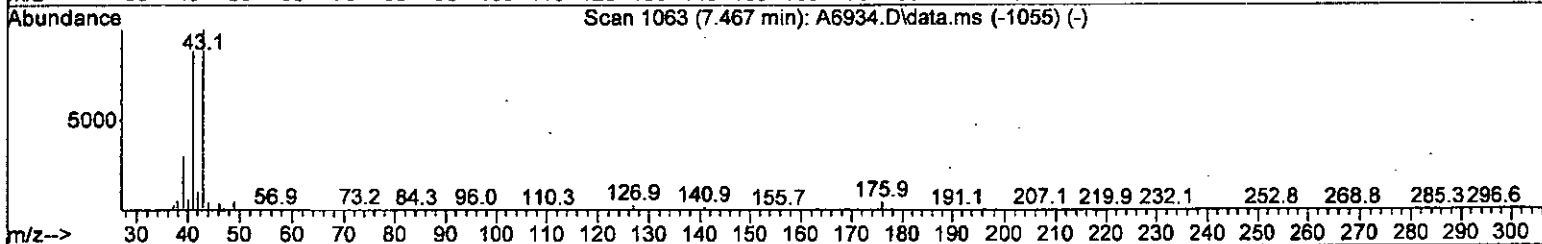
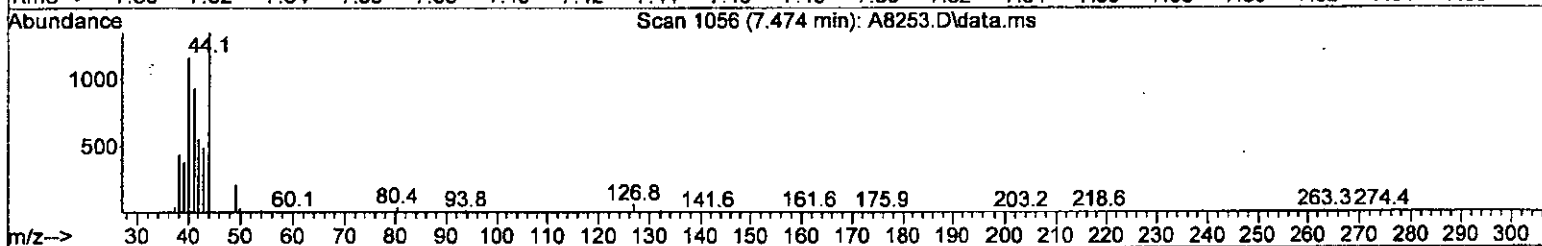
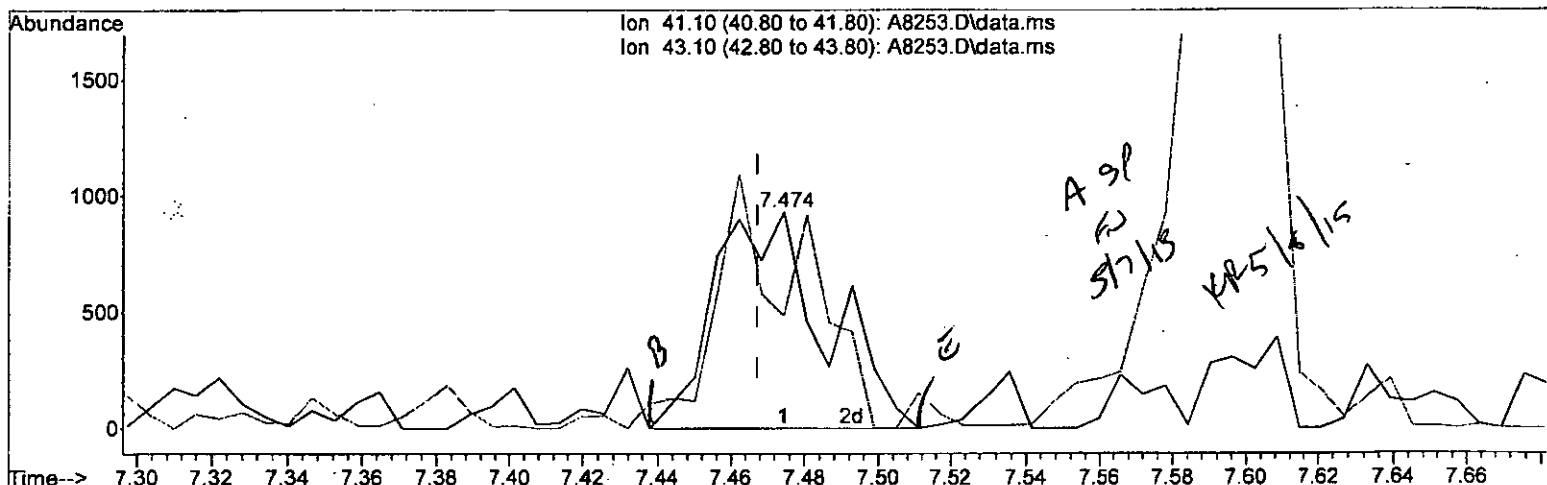
Quant Time: May 06 17:16:18 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8253.D\data.ms

(60) 2-Nitropropane

7.474min (+0.007) 1.00 ug/L m

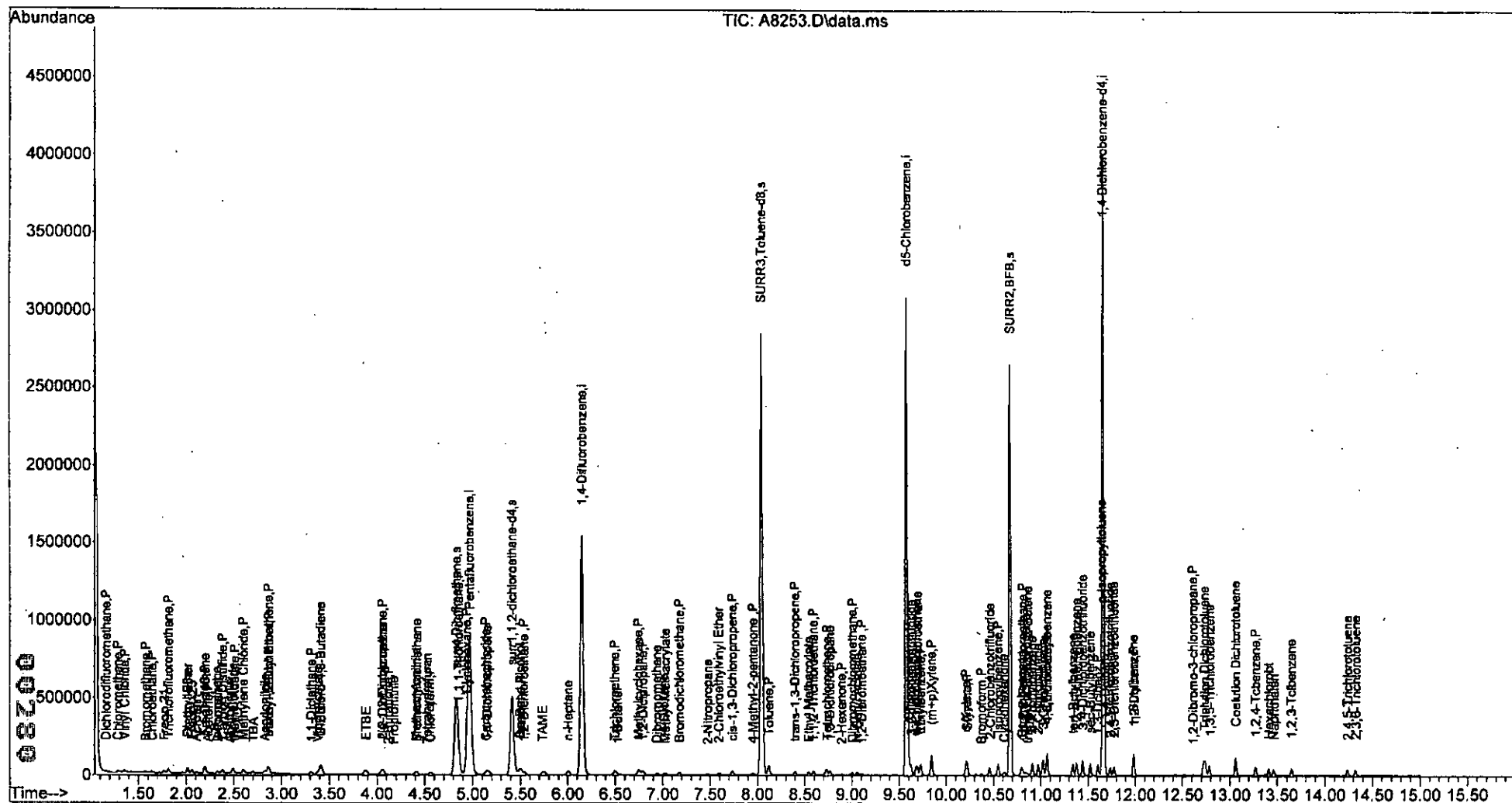
response 1936

Ion	Exp%	Act%
41.10	100	100
43.10	111.20	52.21#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8253.D
Acq Oh : 6 May 2015 5:01 pm
Operator : F. NAEGLER
Sample : 1.0 PPB STD
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:01:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8254.D

Acq On : 6 May 2015 5:31 pm

Operator : F. NAEGLER

Sample : 2.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 10:04:32 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FW
sh/15

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	946317	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1460028	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1382906	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	790285	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	441550	50.60	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	= 101.20%		
46) surr1,1,2-dichloroetha...	5.414	65	456616	50.26	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	= 100.52%		
64) SURR3,Toluene-d8	8.042	98	1699285	50.71	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	= 101.42%		
69) SURR2,BFB	10.669	95	691588	47.05	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	= 94.10%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.165	85	15675m	1.74	ug/L	
3) Chloromethane	1.281	50	33792	3.00	ug/L	84
4) Vinyl Chloride	1.354	62	26336m	2.51	ug/L	
5) Bromomethane	1.573	94	11021	3.05	ug/L	86
6) Chloroethane	1.634	64	12174	2.03	ug/L	86
7) Freon 21	1.762	67	26389	1.61	ug/L	92
8) Trichlorofluoromethane	1.811	101	25958	2.00	ug/L	98
9) Diethyl Ether	2.012	59	16114	2.37	ug/L	83
10) Freon 123a	2.012	67	18145	1.78	ug/L	86
11) Freon 123	2.061	83	20843	1.85	ug/L #	65
12) Acrolein	2.104	56	13461	13.62	ug/L	97
13) 1,1-Dicethene	2.195	96	13869	1.92	ug/L #	74
14) Freon 113	2.195	101	15184	1.91	ug/L	99
15) Acetone	2.226	43	13188	5.91	ug/L	97
16) 2-Propanol	2.329	45	16598	40.60	ug/L	95
17) Iodomethane	2.323	142	19429m	3.99	ug/L	
18) Carbon Disulfide	2.378	76	50978	1.92	ug/L	99
19) Acetonitrile	2.451	40	4665	15.04	ug/L #	84
20) Allyl Chloride	2.488	76	8326	1.94	ug/L #	1
21) Methyl Acetate	2.500	43	13412	2.69	ug/L	80
22) Methylene Chloride	2.598	84	17474	2.17	ug/L #	69
23) TBA	2.695	59	26551	42.97	ug/L	79
24) Acrylonitrile	2.823	53	30431	13.28	ug/L	97
25) Methyl-t-Butyl Ether	2.860	73	40205	1.89	ug/L	83
26) trans-1,2-Dichloroethene	2.860	96	15413	1.87	ug/L #	84
27) 1,1-Dicethane	3.305	63	34766	2.27	ug/L	87
28) Vinyl Acetate	3.366	86	3649	2.51	ug/L #	1
29) DIPE	3.408	45	94326	2.83	ug/L #	75
30) 2-Chloro-1,3-Butadiene	3.414	53	40201	2.26	ug/L	97
31) ETBE	3.878	59	64002	2.27	ug/L	84
32) 2,2-Dichloropropane	4.049	77	22447	1.87	ug/L	89
33) cis-1,2-Dichloroethene	4.061	96	18731	2.04	ug/L	86
34) 2-Butanone	4.103	43	9239	3.02	ug/L	82
35) Propionitrile	4.158	54	11126	13.40	ug/L	91

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8254.D

Acq On : 6 May 2015 5:31 pm

Operator : F. NAEGLER

Sample : 2.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 07 10:04:32 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.414	130	11435	2.22	ug/L	93
37) Methacrylonitrile	4.396	67	5289	2.16	ug/L #	69
38) Tetrahydrofuran	4.506	42	5686	2.83	ug/L #	65
39) Chloroform	4.567	83	30517	2.11	ug/L	93
40) 1,1,1-Trichloroethane	4.853	97	25148	1.89	ug/L	93
42) Cyclohexane	4.945	41	26527	2.38	ug/L	86
44) Carbontetrachloride	5.158	121	6160	1.55	ug/L	86
45) 1,1-Dichloropropene	5.158	75	22855	1.94	ug/L	79
47) Benzene	5.499	78	74649	2.10	ug/L	90
48) 1,2-Dichloroethane	5.542	62	25515	2.15	ug/L	89
49) Iso-Butyl Alcohol	5.481	43	13157m	40.97	ug/L	
50) TAME	5.743	73	39659	1.74	ug/L	79
51) n-Heptane	6.012	43	27938	2.28	ug/L	79
52) 1-Butanol	6.524	56	13821m	75.39	ug/L	
53) Trichloroethene	6.493	130	19238	2.00	ug/L	94
54) Methylcyclohexane	6.743	55	28056	2.11	ug/L #	67
55) 1,2-Dicloropropane	6.786	63	21347	2.25	ug/L	93
56) Dibromomethane	6.938	93	9427	1.98	ug/L	98
57) 1,4-Dioxane	7.005	88	2205	35.86	ug/L #	70
58) Methyl Methacrylate	7.024	69	8259	1.79	ug/L #	31
59) Bromodichloromethane	7.170	83	21862	1.84	ug/L	93
60) 2-Nitropropane	7.463	41	4288	2.16	ug/L	99
61) 2-Chloroethylvinyl Ether	7.597	63	9227	2.04	ug/L	95
62) cis-1,3-Dichloropropene	7.737	75	24039	1.70	ug/L	91
63) 4-Methyl-2-pentanone	7.950	43	17457	2.40	ug/L	85
65) Toluene	8.115	91	82562	2.18	ug/L	93
66) trans-1,3-Dichloropropene	8.395	75	18425	1.50	ug/L	94
67) Ethyl Methacrylate	8.542	69	15286	1.59	ug/L #	49
68) 1,1,2-Trichloroethane	8.590	97	13719	1.95	ug/L #	74
71) Tetrachloroethene	8.731	164	15614	2.04	ug/L	95
72) 2-Hexanone	8.889	43	12089	2.44	ug/L	81
73) 1,3-Dichloropropane	8.767	76	24505	2.25	ug/L #	77
74) Dibromochloromethane	8.999	129	14877	1.72	ug/L	84
75) N-Butyl Acetate	9.054	43	27561	2.22	ug/L	87
76) 1,2-Dibromoethane	9.096	107	13065	1.99	ug/L	99
77) 3-Chlorobenzotrifluoride	9.627	180	30231	2.04	ug/L #	86
78) Chlorobenzene	9.602	112	52678	2.08	ug/L	93
79) 4-Chlorobenzotrifluoride	9.682	180	27041	2.01	ug/L	92
80) 1,1,1,2-Tetrachloroethane	9.694	131	17073	1.80	ug/L	92
81) Ethylbenzene	9.724	106	27184	2.02	ug/L	98
82) (m+p)Xylene	9.840	106	68302	4.19	ug/L	94
83) o-Xylene	10.206	106	32318	1.98	ug/L	95
84) Styrene	10.218	104	53328	1.90	ug/L	93
85) Bromoform	10.377	173	8201	1.54	ug/L	96
86) 2-Chlorobenzotrifluoride	10.456	180	26593	1.83	ug/L	93
87) Isopropylbenzene	10.547	105	82248	2.06	ug/L	99
88) Cyclohexanone	10.608	55	17806	33.54	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.864	53	5005	1.84	ug/L #	69
91) 1,1,2,2-Tetrachloroethane	10.816	83	15747	2.05	ug/L	84
92) Bromobenzene	10.797	156	23004	2.13	ug/L #	86
93) 1,2,3-Trichloropropane	10.840	110	4880	2.28	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:04:32 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

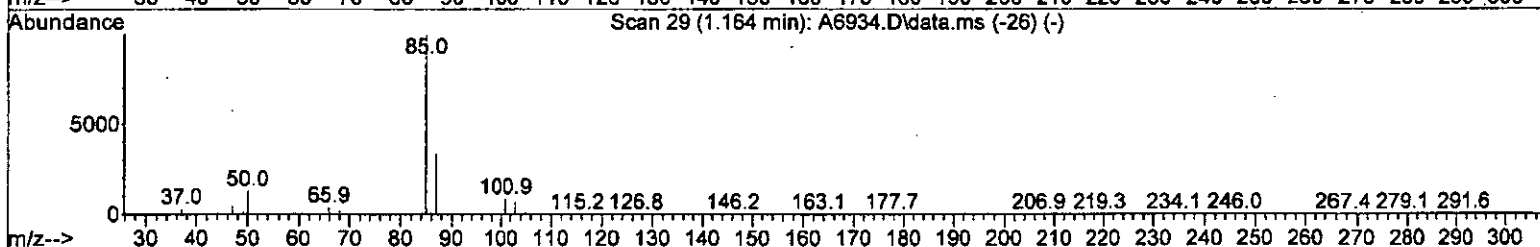
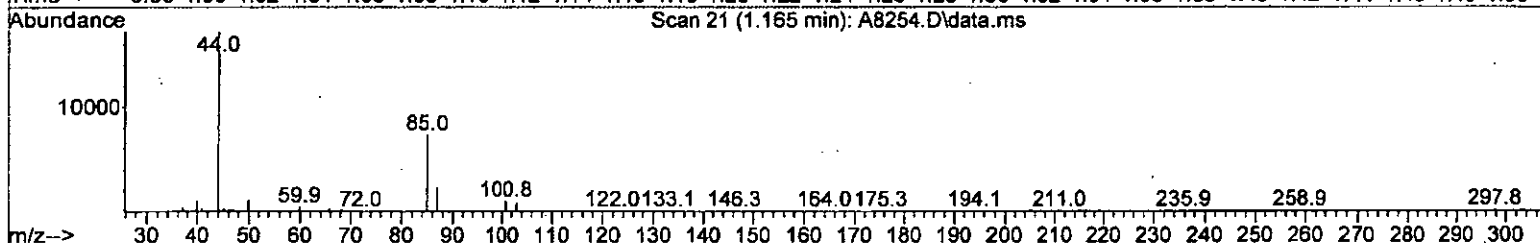
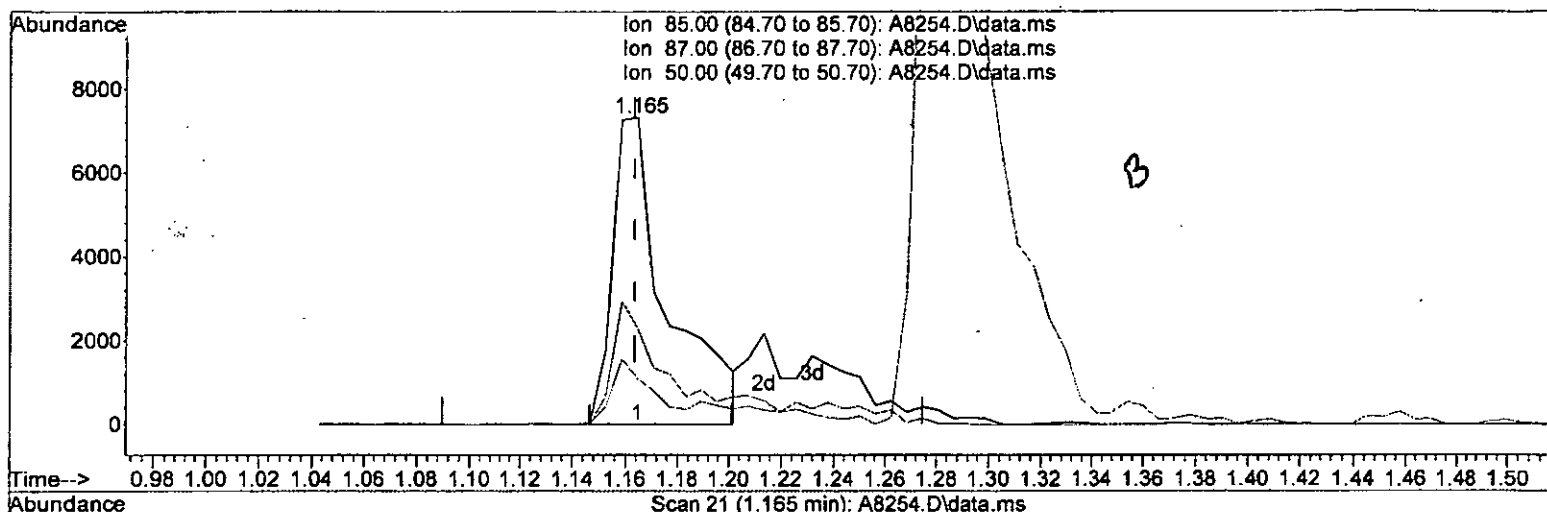
Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
94) n-Propylbenzene	10.907	91	97775	2.23	ug/L	97
95) 2-Chlorotoluene	10.974	91	60387	2.17	ug/L	97
96) 3-Chlorotoluene	11.023	91	61467	2.07	ug/L	97
97) 4-Chlorotoluene	11.065	91	72667	2.20	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	69892	2.12	ug/L	97
99) tert-Butylbenzene	11.340	119	58836	2.07	ug/L	97
100) 1,2,4-Trimethylbenzene	11.376	105	70236	2.06	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.443	214	19165	1.80	ug/L	98
102) sec-Butylbenzene	11.523	105	84659	2.17	ug/L	97
103) p-Isopropyltoluene	11.645	119	73212	2.13	ug/L	98
104) 1,3-Dclbenz	11.602	146	43707	2.06	ug/L	96
105) 1,4-Dclbenz	11.681	146	51454	2.34	ug/L	90
106) 2,4-Dichlorobenzotrifl...	11.730	214	18339	1.86	ug/L	86
107) 2,5-Dichlorobenzotrifl...	11.773	214	21871	2.01	ug/L	93
108) n-Butylbenzene	11.980	91	63480	2.09	ug/L	94
109) 1,2-Dclbenz	11.986	146	43817	2.21	ug/L	93
110) 1,2-Dibromo-3-chloropr...	12.608	157	2877	1.88	ug/L	88
111) Trielution Dichlorotol...	12.730	125	108406	6.19	ug/L	96
112) 1,3,5-Trichlorobenzene	12.785	180	30258	2.05	ug/L	99
113) Coelution Dichlorotoluene	13.059	125	77291	4.25	ug/L	96
114) 1,2,4-Tcbenzene	13.266	180	25731	2.07	ug/L	91
115) Hexachlorobt	13.406	225	10099	1.82	ug/L #	81
116) Naphthalen	13.455	128	48261	2.20	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	23144	2.49	ug/L	97
118) 2,4,5-Trichlorotoluene	14.236	159	15003	2.48	ug/L	93
119) 2,3,6-Trichlorotoluene	14.321	159	14537m	2.82	ug/L	

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:46:24 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.001) 1.18 ug/L

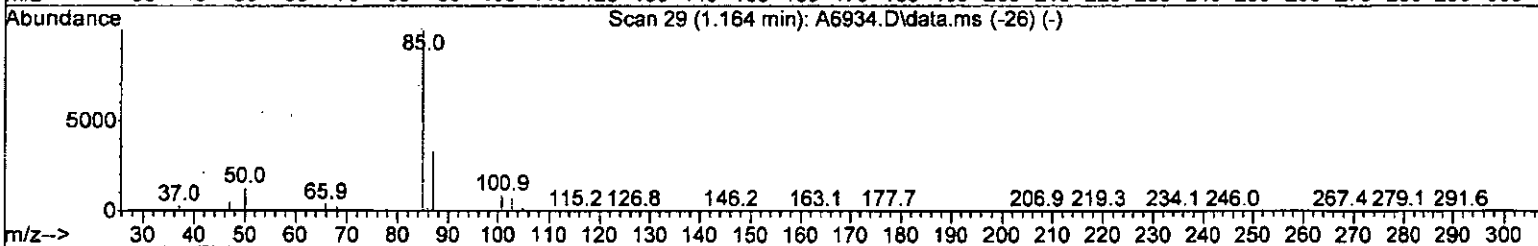
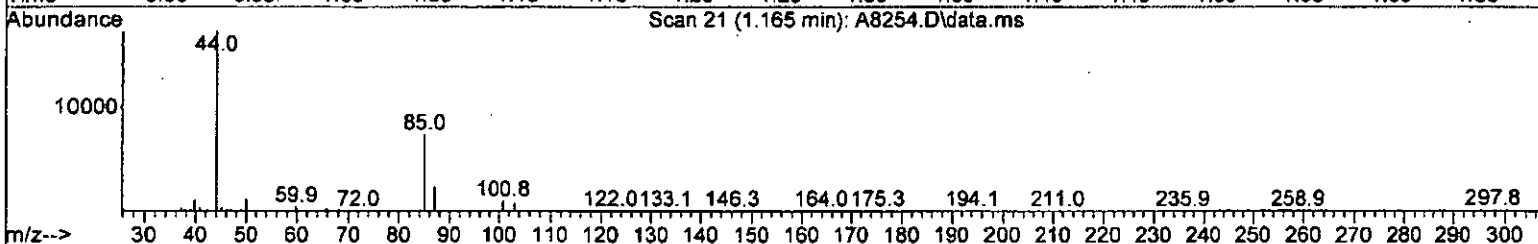
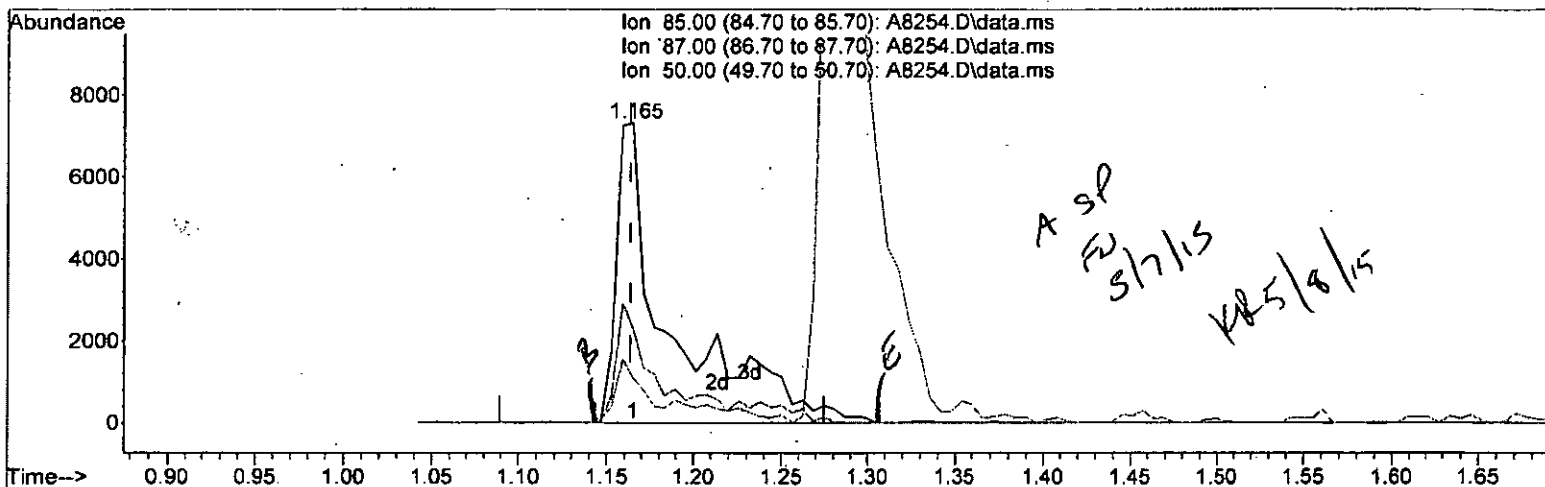
response 10617

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.26
50.00	15.00	14.86
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:46:24 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.001) 1.74 ug/L m

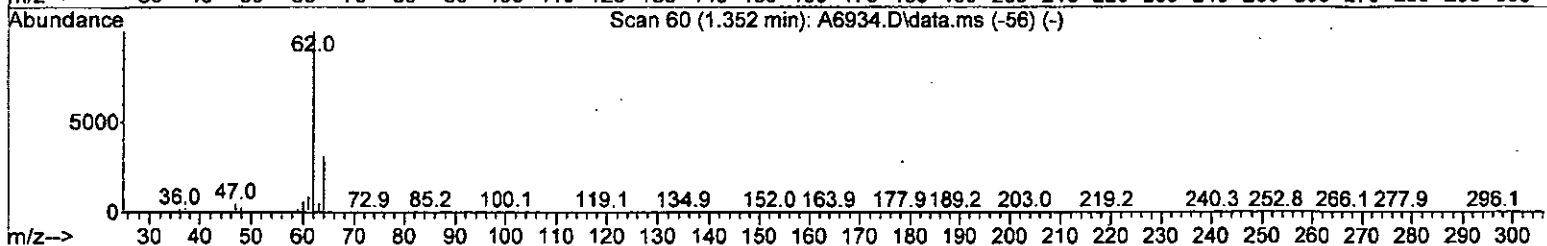
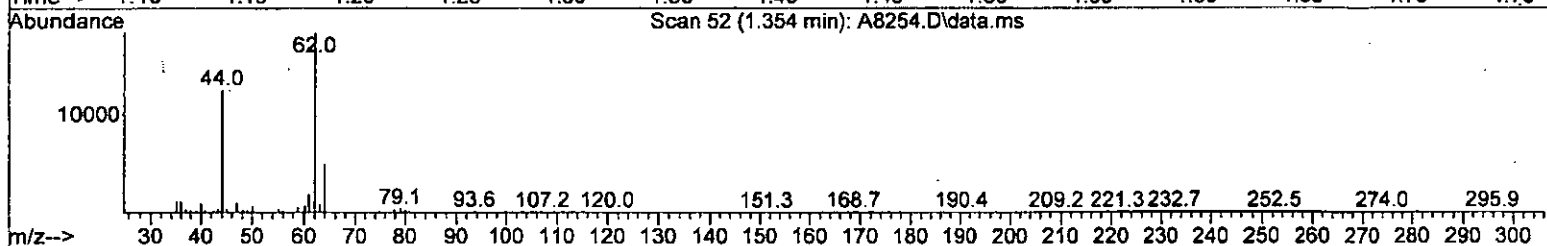
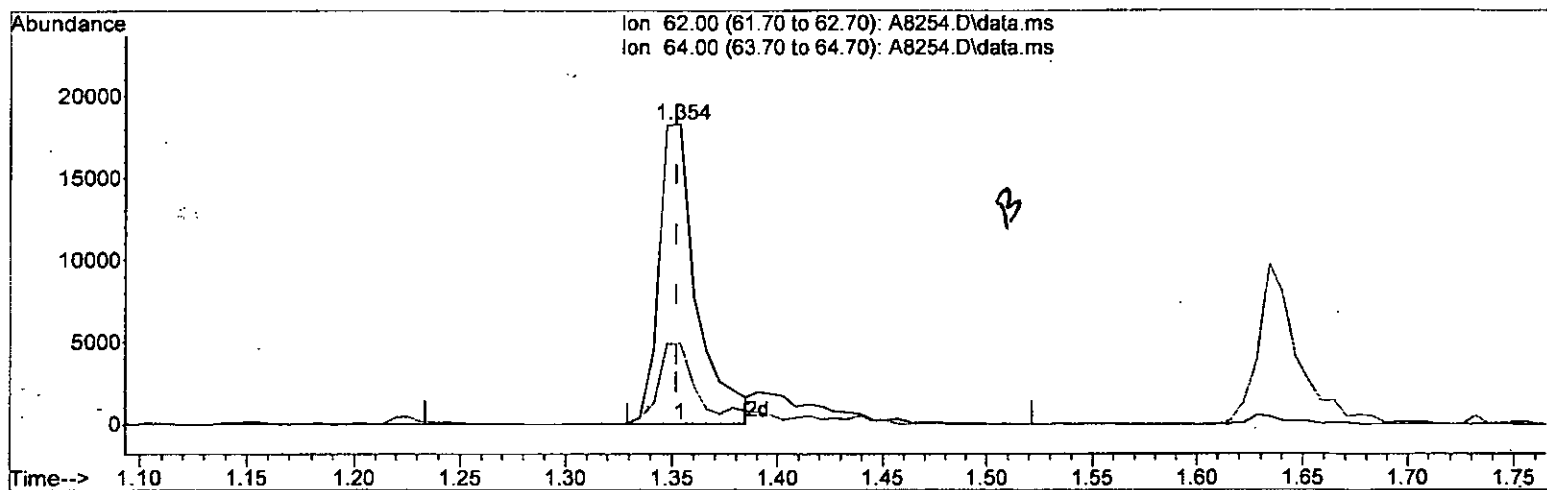
response 15675

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.26
50.00	15.00	14.86
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:46:24 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(4) Vinyl Chloride (P)

1.354min (+0.002) 2.09 ug/L

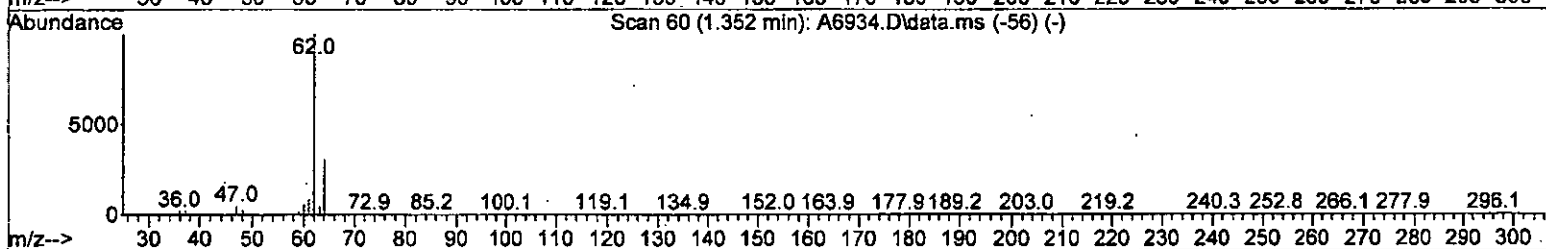
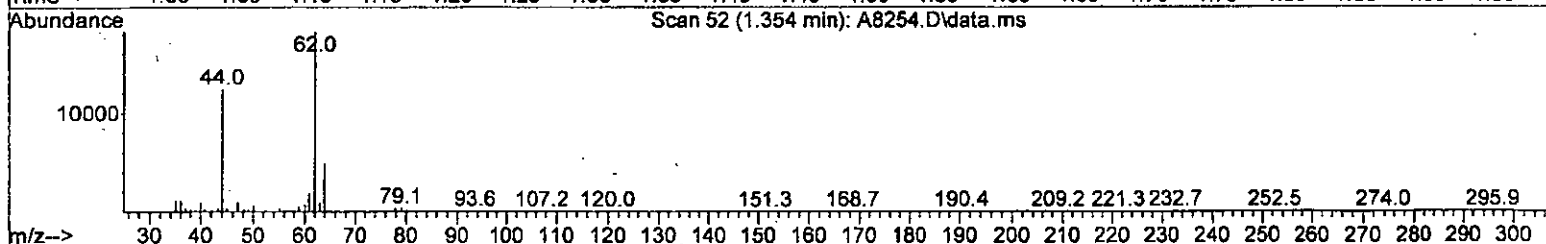
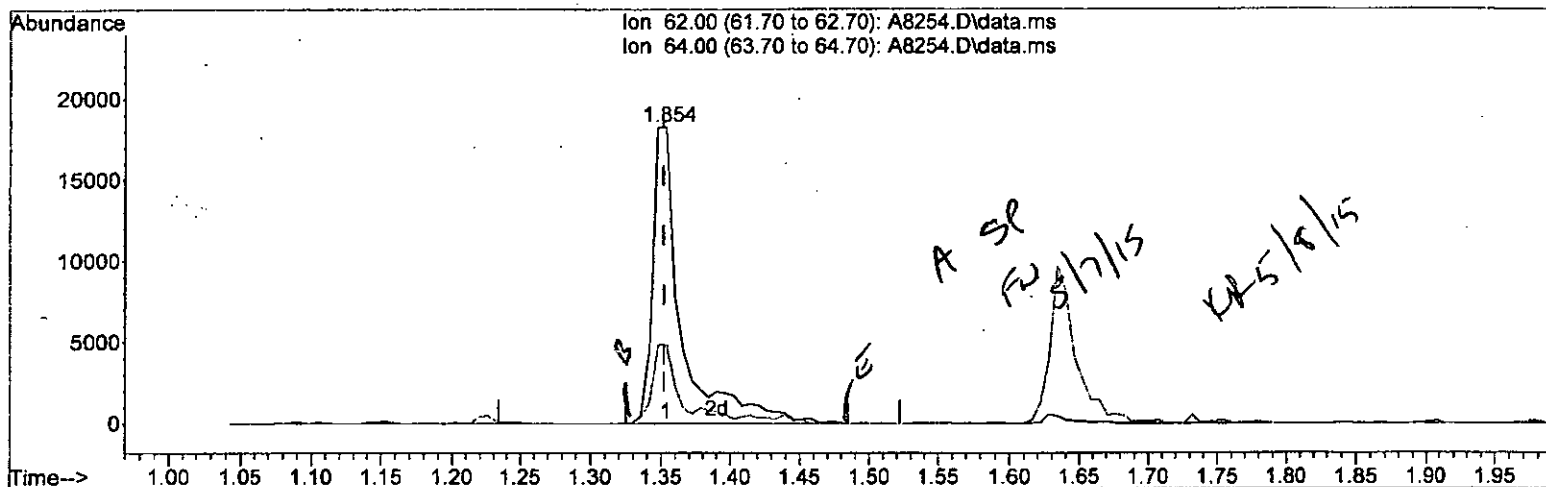
response 21858

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	26.70
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 17:46:24 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(4) Vinyl Chloride (P)

1.354min (+0.002) 2.51 ug/L m

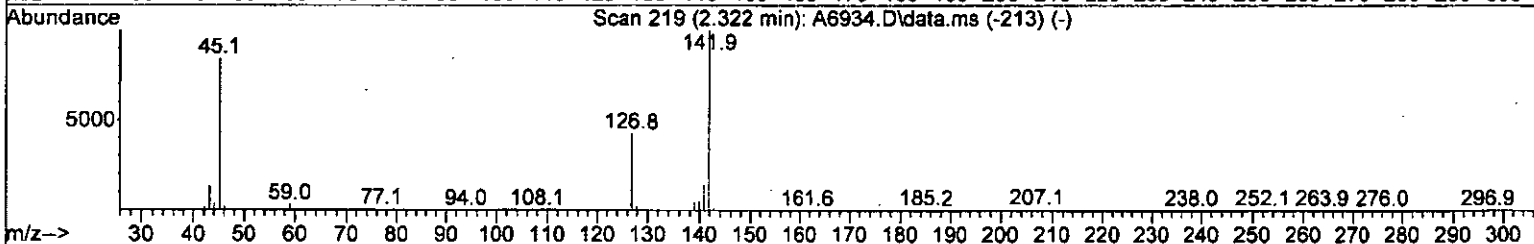
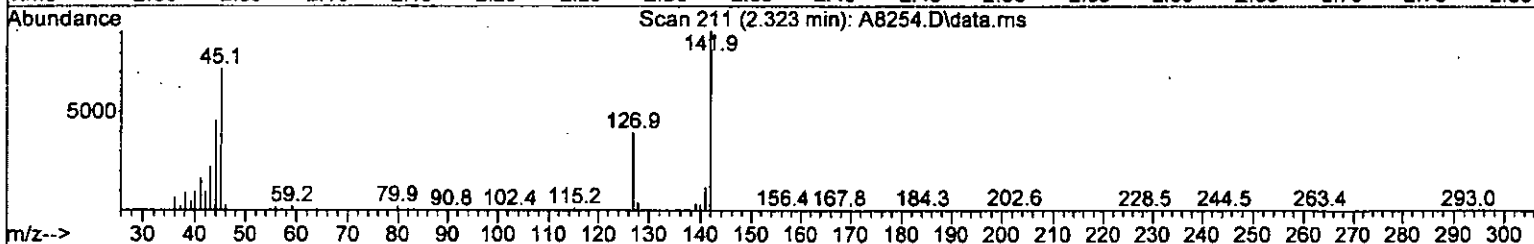
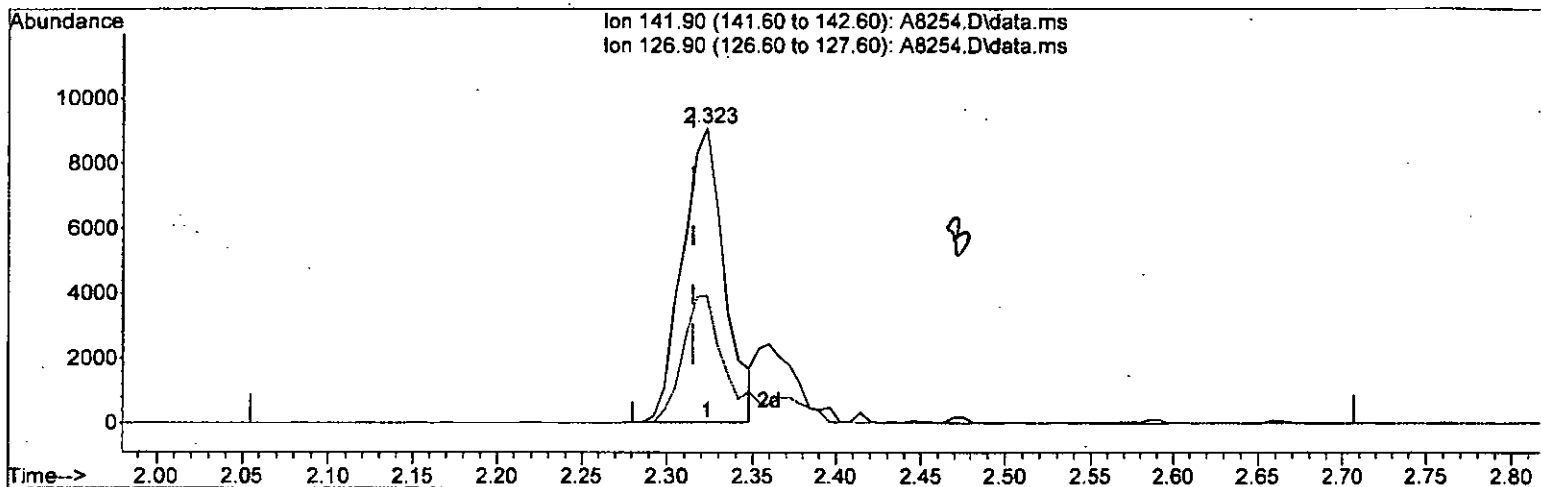
response 26336

Ion	Exp%	Act%
62.00	100	100
64.00	31.70	26.70
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(17) Iodomethane

2.323min (+0.008) 3.15 ug/L

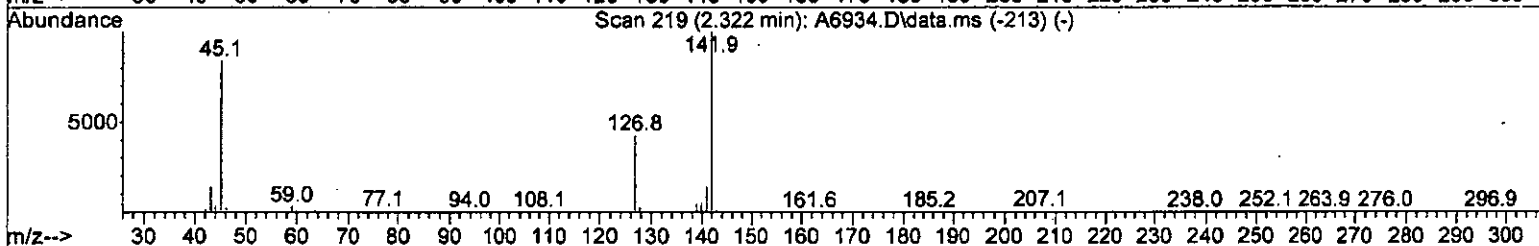
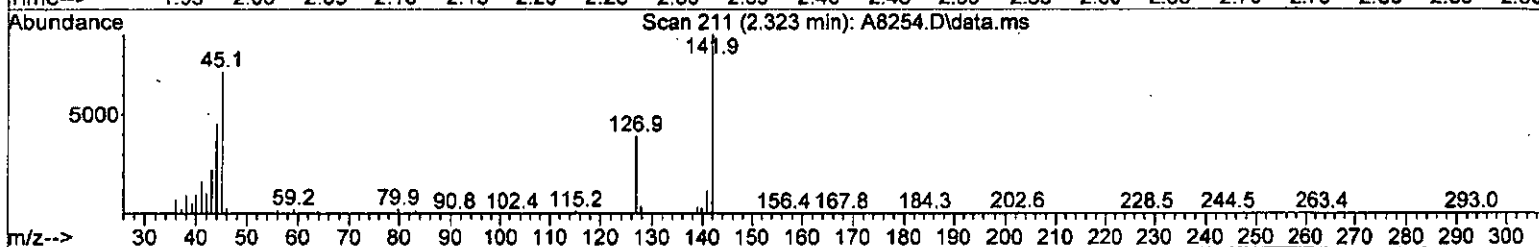
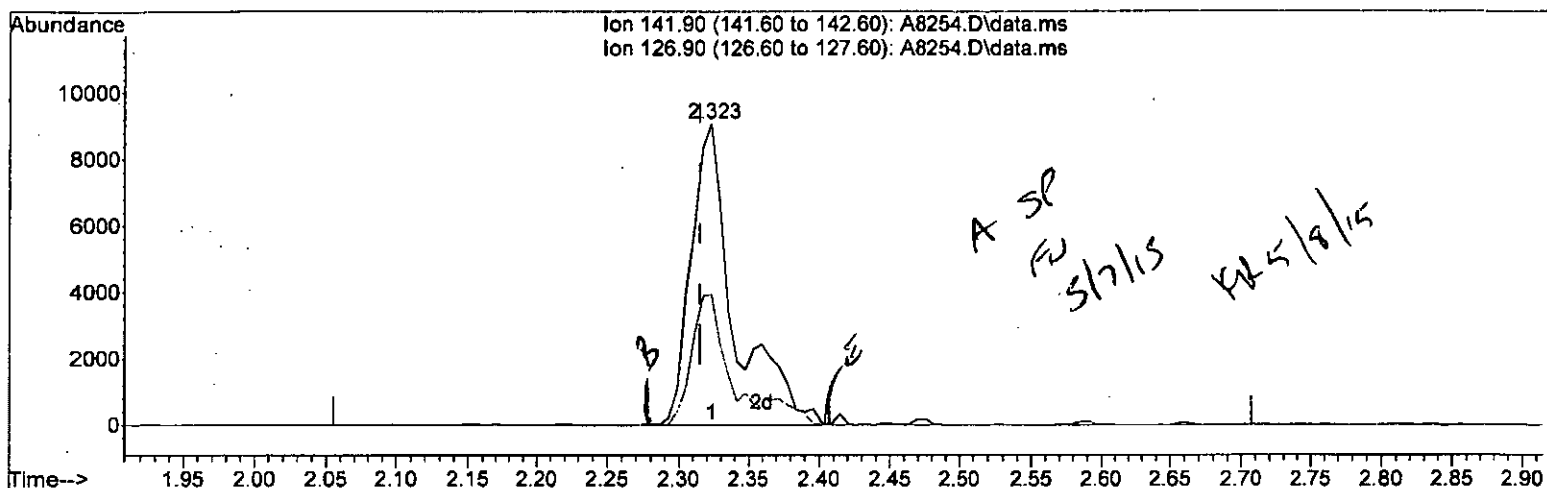
response 15301

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	43.16
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(17) Iodomethane

2.323min (+0.008) 3.99 ug/L m

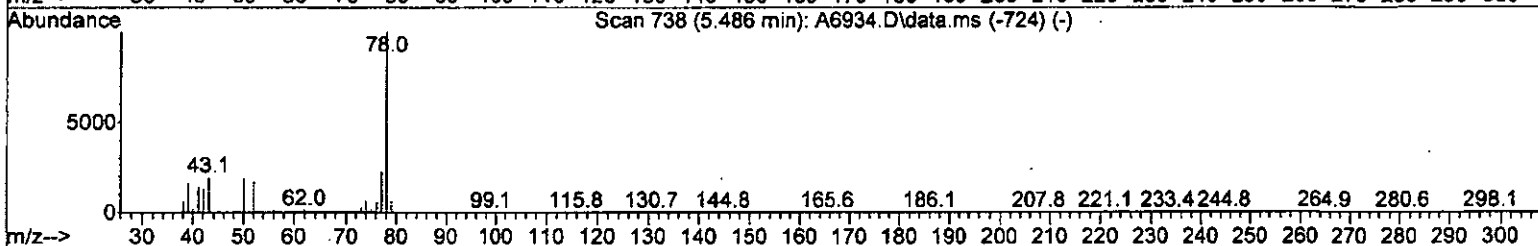
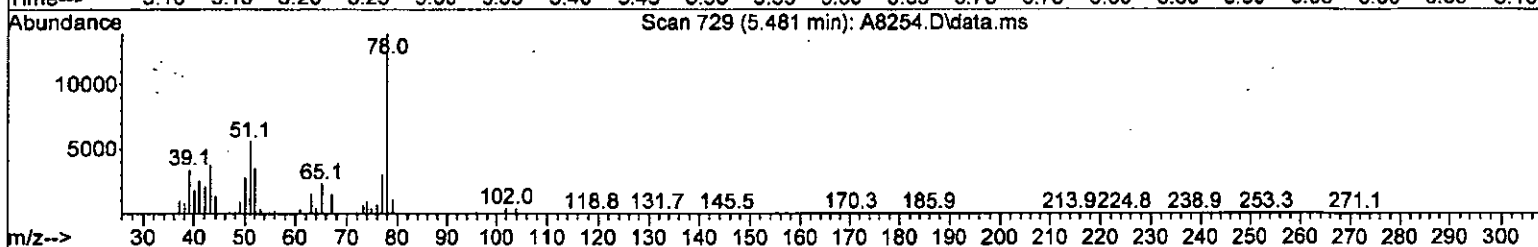
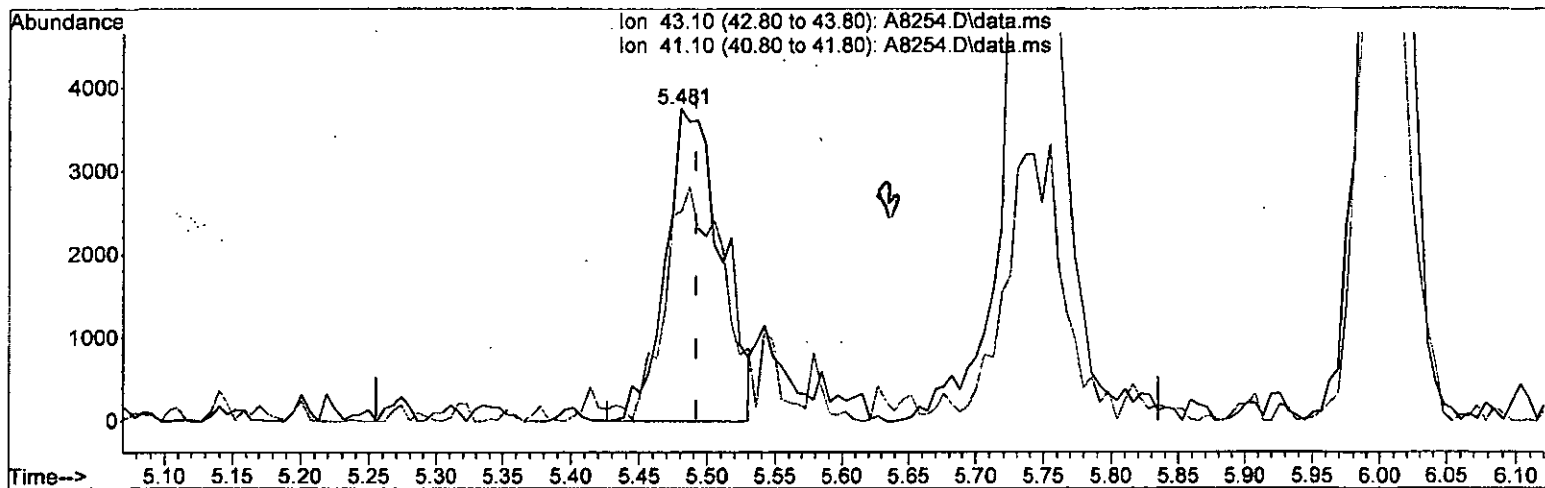
response 19429

Ion	Exp%	Act%
141.90	100	100
126.90	43.50	43.16
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(49) Iso-Butyl Alcohol

5.481min (-0.011) 33.00 ug/L

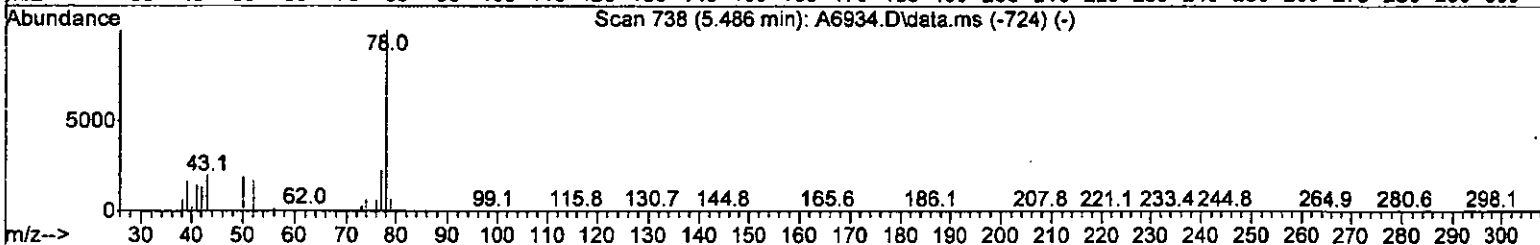
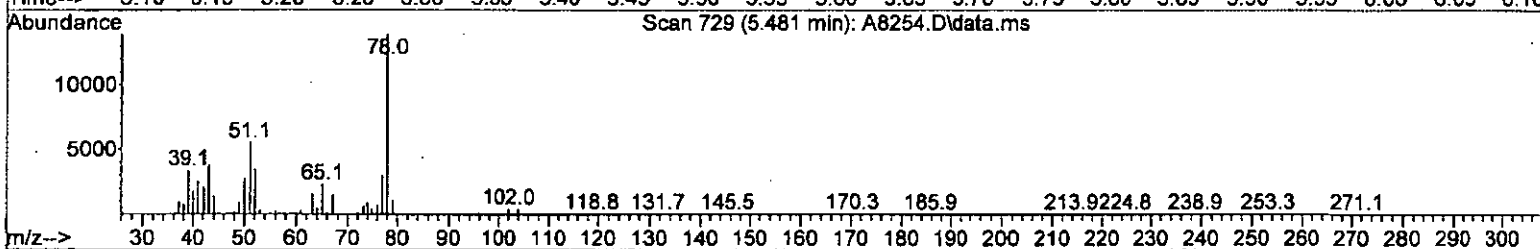
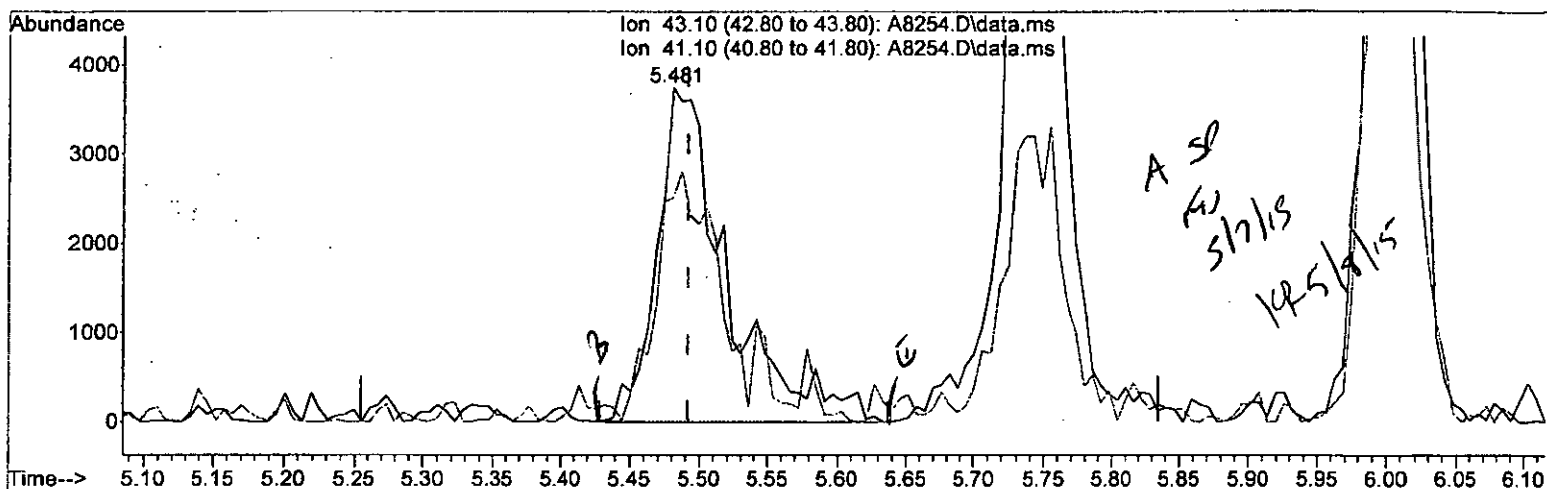
response 10599

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	67.04
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(49) Iso-Butyl Alcohol

5.481min (-0.011) 40.97 ug/L m

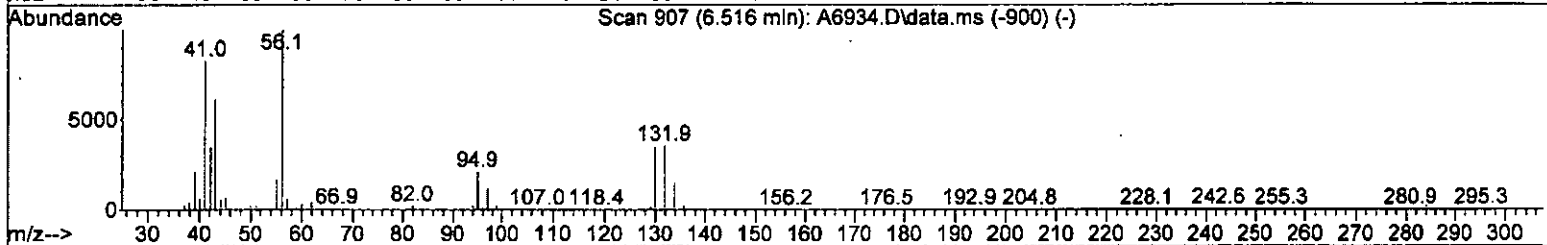
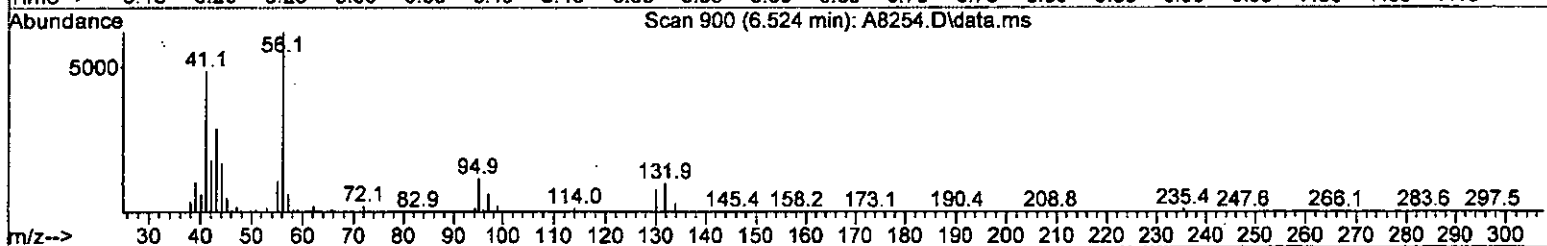
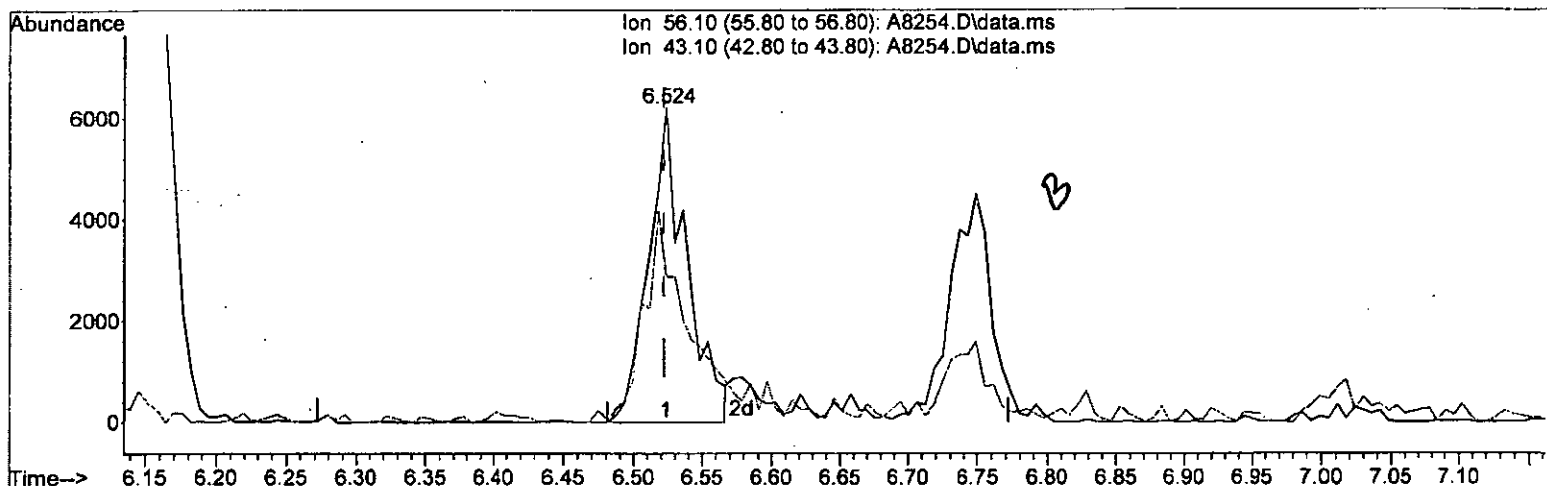
response 13157

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	67.04
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(52) 1-Butanol

6.524min (+0.002) 65.30 ug/L

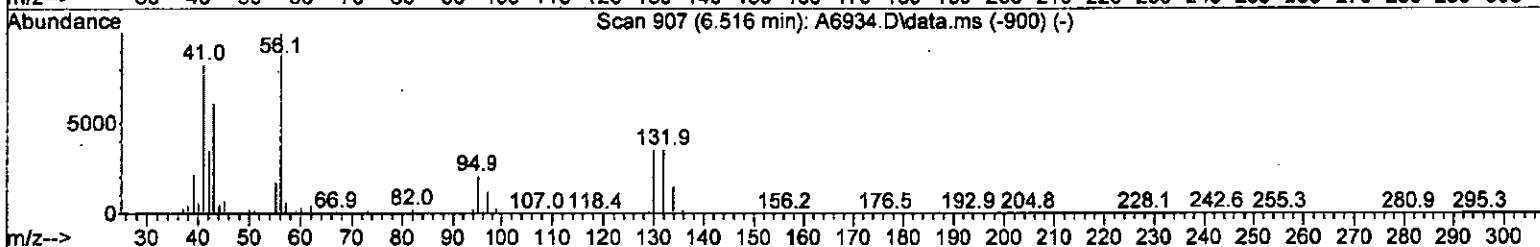
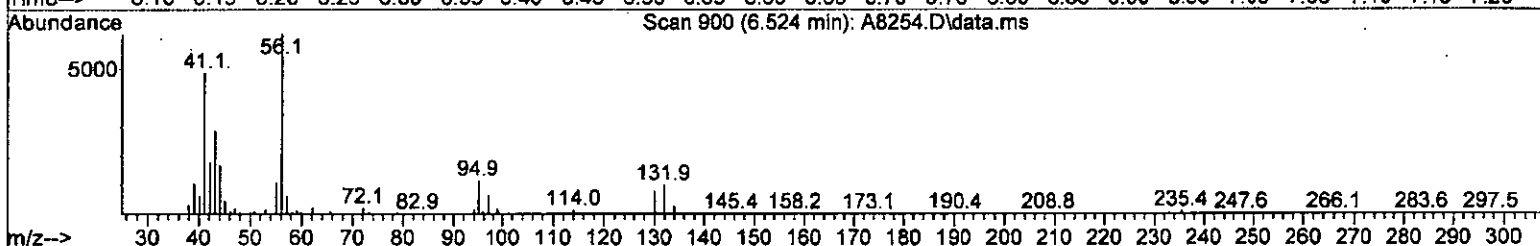
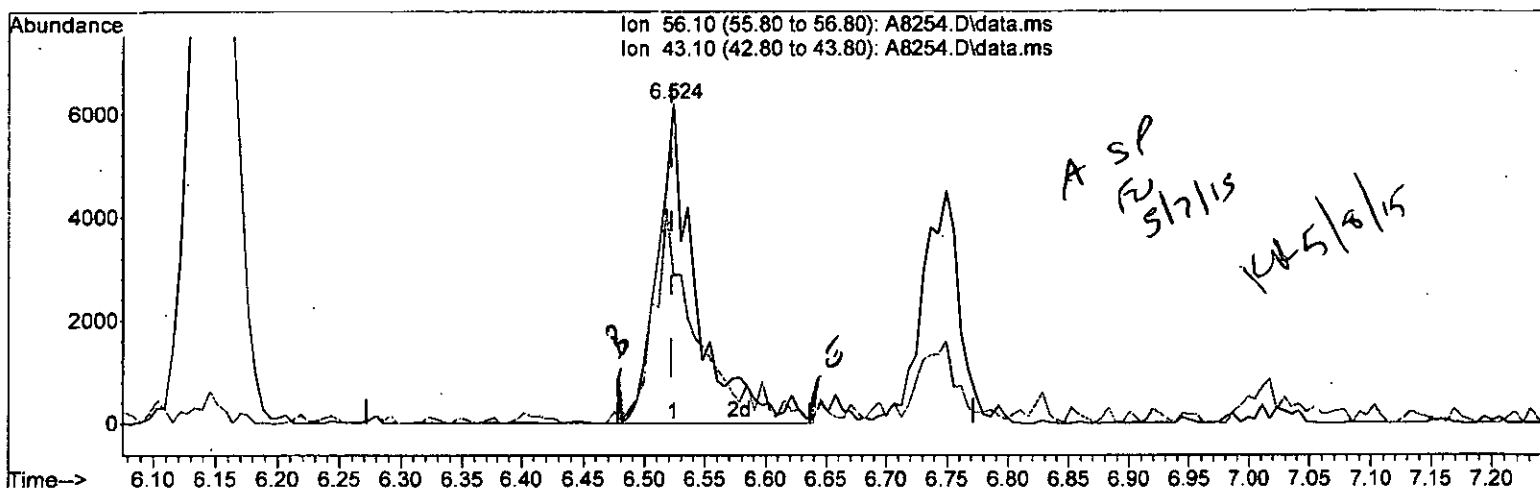
response 11971

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	46.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8254.D
 Acq On : 6 May 2015 5:31 pm
 Operator : F. NAEGLER
 Sample : 2.0 PPB STD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:26:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8254.D\data.ms

(52) 1-Butanol

6.524min (+0.002) 75.39 ug/L m

response 13821

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	46.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8254.D

Acq On : 6 May 2015 5:31 pm

Operator : F. NAEGLER

Sample : 2.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 5 Sample Multiplier: 1

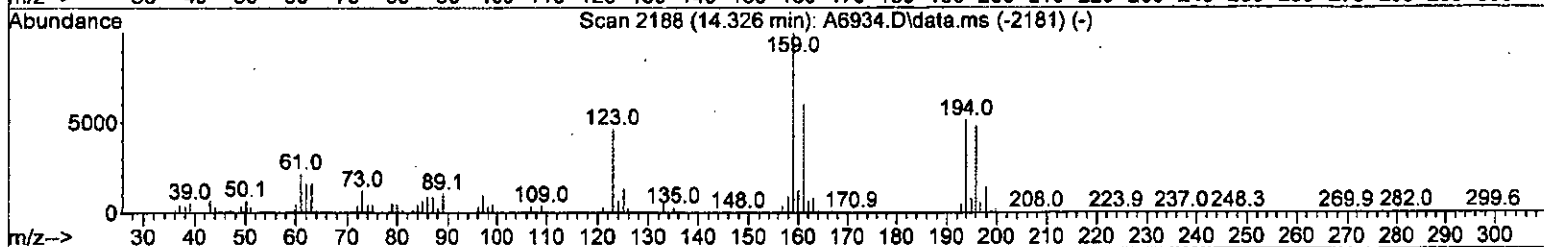
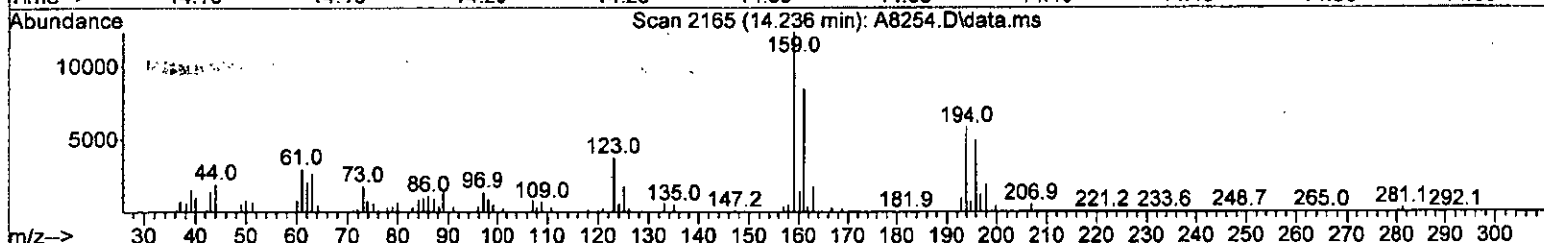
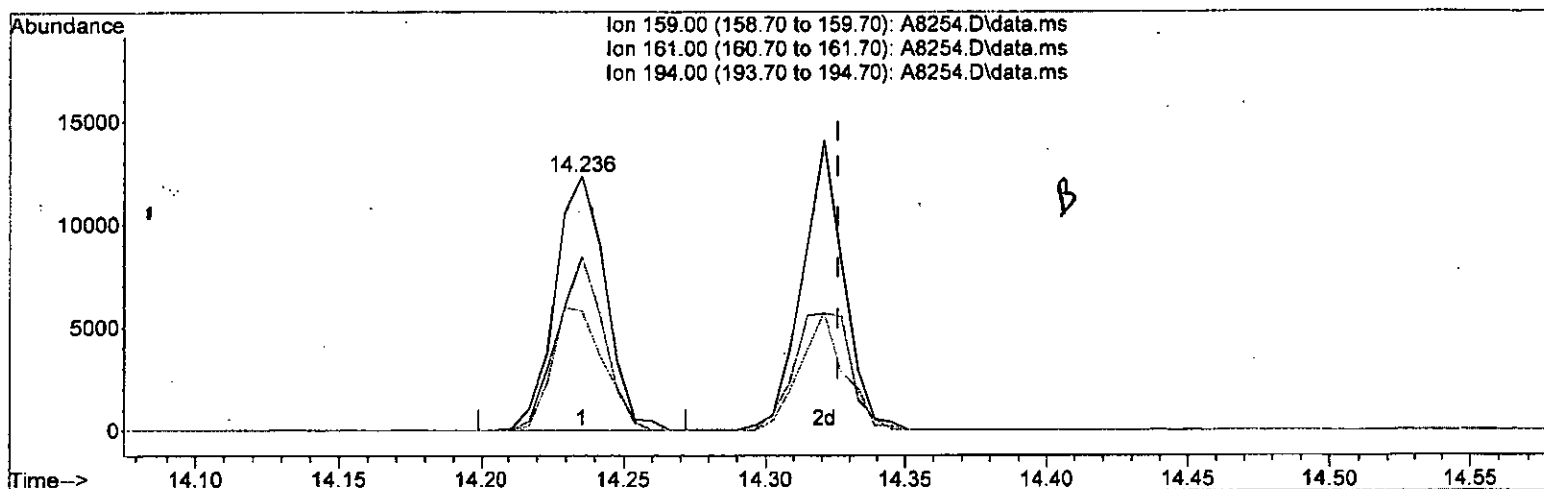
Quant Time: May 06 17:46:24 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8254.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.236min (-0.090) 2.91 ug/L

response 15003

Ion	Exp%	Act%
159.00	100	100
161.00	62.90	68.40
194.00	47.30	47.04
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8254.D

Acq On : 6 May 2015 5:31 pm

Operator : F. NAEGLER

Sample : 2.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 5 Sample Multiplier: 1

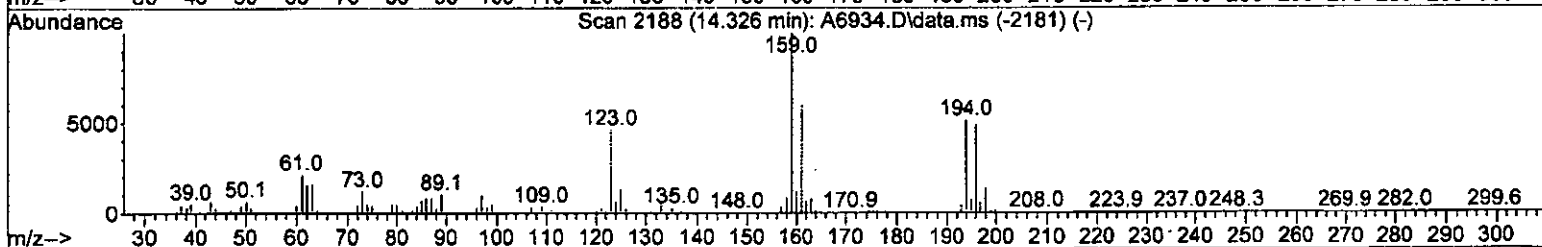
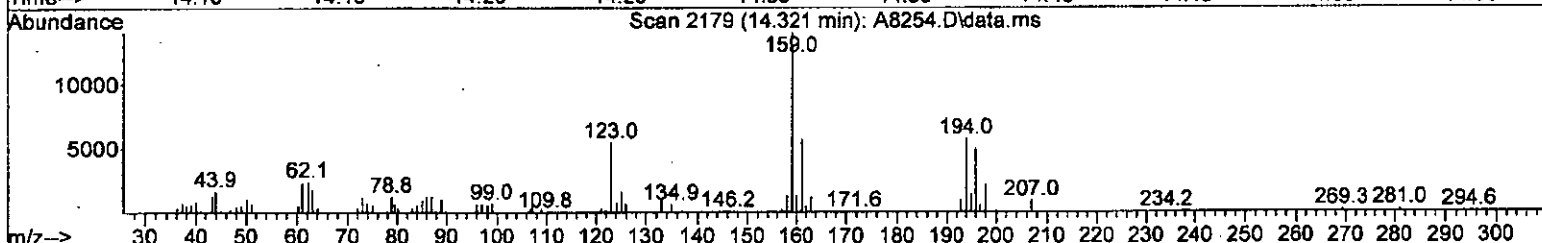
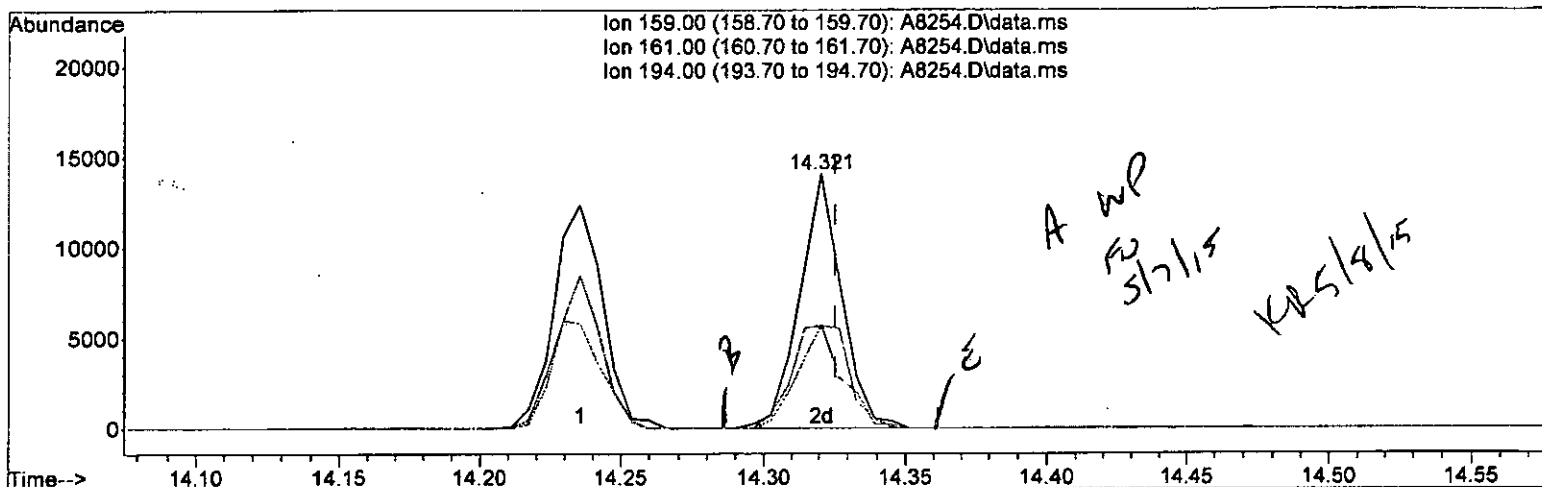
Quant Time: May 06 17:46:24 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8254.D\data.ms

(119) 2,3,6-Trichlorotoluene

14.321min (-0.005) 2.82 ug/L m

response 14537

Ion	Exp%	Act%
159.00	100	100
161.00	62.90	40.29#
194.00	47.30	40.70
0.00	0.00	0.00

Inst : MSVOA10

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8255.D

Acq On : 6 May 2015 6:01 pm

Operator : F. NAEGLER

Sample : 5.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 10:06:25 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FU
shhs

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	944649	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1442159	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1372786	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	788682	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrfilmethane	4.829	113	530386	61.53	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 123.06%#			
46) surr1,1,2-dichloroetha...	5.414	65	554683	61.81	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 123.62%#			
64) SURR3,Toluene-d8	8.042	98	2032177	61.39	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 122.78%#			
69) SURR2,BFB	10.675	95	823867	56.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 113.48%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	42816	4.77	ug/L	94
3) Chloromethane	1.281	50	79703	7.10	ug/L	96
4) Vinyl Chloride	1.348	62	62336	5.96	ug/L	99
5) Bromomethane	1.573	94	24949	6.91	ug/L	99
6) Chloroethane	1.634	64	29665	4.96	ug/L	98
7) Freon 21	1.762	67	69908	4.29	ug/L	96
8) Trichlorofluoromethane	1.811	101	63110	4.88	ug/L	98
9) Diethyl Ether	2.012	59	38554	5.69	ug/L #	76
10) Freon 123a	2.012	67	47703	4.68	ug/L	94
11) Freon 123	2.061	83	52186	4.63	ug/L	78
12) Acrolein	2.104	56	34662	35.13	ug/L	98
13) 1,1-Dicethene	2.195	96	34402	4.76	ug/L #	86
14) Freon 113	2.195	101	35544	4.47	ug/L	100
15) Acetone	2.226	43	27737	12.45	ug/L	94
16) 2-Propanol	2.329	45	44141	108.16	ug/L	98
17) Iodomethane	2.317	142	43357	8.93	ug/L	97
18) Carbon Disulfide	2.378	76	123656	4.67	ug/L	99
19) Acetonitrile	2.445	40	8979	29.00	ug/L #	79
20) Allyl Chloride	2.488	76	22045	5.15	ug/L #	1
21) Methyl Acetate	2.500	43	32284	6.48	ug/L	85
22) Methylene Chloride	2.591	84	39719	4.95	ug/L #	61
23) TBA	2.689	59	60589	98.23	ug/L	69
24) Acrylonitrile	2.817	53	72037	31.50	ug/L	100
25) Methyl-t-Butyl Ether	2.860	73	95828	4.50	ug/L	93
26) trans-1,2-Dichloroethene	2.860	96	38713	4.71	ug/L #	75
27) 1,1-Dicethane	3.311	63	84133	5.50	ug/L	99
28) Vinyl Acetate	3.378	86	7260	4.99	ug/L #	86
29) DIPE	3.408	45	234359	7.06	ug/L #	74
30) 2-Chloro-1,3-Butadiene	3.414	53	102447	5.77	ug/L	87
31) ETBE	3.878	59	158569	5.64	ug/L	90
32) 2,2-Dichloropropane	4.048	77	55311	4.62	ug/L	92
33) cis-1,2-Dichloroethene	4.048	96	45803	5.00	ug/L	95
34) 2-Butanone	4.091	43	21441	7.02	ug/L	90
35) Propionitrile	4.164	54	26775	32.30	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:06:25 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	27821	5.42	ug/L #	76
37) Methacrylonitrile	4.414	67	12307	5.04	ug/L #	53
38) Tetrahydrofuran	4.500	42	10975	5.47	ug/L #	68
39) Chloroform	4.567	83	76762	5.31	ug/L	97
40) 1,1,1-Trichloroethane	4.847	97	62411	4.71	ug/L	94
42) Cyclohexane	4.939	41	62445	5.66	ug/L	100
44) Carbontetrachloride	5.164	121	16174	4.12	ug/L #	70
45) 1,1-Dichloropropene	5.158	75	57667	4.96	ug/L	94
47) Benzene	5.499	78	175029	4.98	ug/L	84
48) 1,2-Dichloroethane	5.542	62	62635	5.34	ug/L	93
49) Iso-Butyl Alcohol	5.487	43	31482m	99.24	ug/L	
50) TAME	5.743	73	98007	4.34	ug/L	84
51) n-Heptane	6.005	43	73628	6.07	ug/L	79
52) 1-Butanol	6.511	56	31288m	172.79	ug/L	
53) Trichloroethene	6.493	130	48764	5.13	ug/L	90
54) Methylcyclohexane	6.743	55	66506	5.07	ug/L #	84
55) 1,2-Dichloropropane	6.792	63	50353	5.37	ug/L	92
56) Dibromomethane	6.938	93	24221	5.14	ug/L	93
57) 1,4-Dioxane	7.011	88	4952m	81.52	ug/L	
58) Methyl Methacrylate	7.017	69	20099	4.41	ug/L #	68
59) Bromodichloromethane	7.170	83	52190	4.45	ug/L	98
60) 2-Nitropropane	7.462	41	11179	5.71	ug/L #	78
61) 2-Chloroethylvinyl Ether	7.590	63	23716	5.31	ug/L	95
62) cis-1,3-Dichloropropene	7.737	75	59199	4.23	ug/L	91
63) 4-Methyl-2-pentanone	7.950	43	44357	6.19	ug/L	80
65) Toluene	8.121	91	191788	5.14	ug/L	97
66) trans-1,3-Dichloropropene	8.395	75	48075	3.96	ug/L	99
67) Ethyl Methacrylate	8.542	69	36869	3.87	ug/L #	58
68) 1,1,2-Trichloroethane	8.590	97	35588	5.12	ug/L	96
71) Tetrachloroethene	8.730	164	40801	5.36	ug/L	93
72) 2-Hexanone	8.889	43	27444	5.57	ug/L	79
73) 1,3-Dichloropropane	8.767	76	55787	5.17	ug/L #	74
74) Dibromochloromethane	8.999	129	37395	4.36	ug/L	94
75) N-Butyl Acetate	9.054	43	62654	5.09	ug/L	96
76) 1,2-Dibromoethane	9.096	107	31746	4.87	ug/L	94
77) 3-Chlorobenzotrifluoride	9.627	180	70077	4.77	ug/L	92
78) Chlorobenzene	9.602	112	133132	5.29	ug/L	96
79) 4-Chlorobenzotrifluoride	9.682	180	62001	4.64	ug/L	91
80) 1,1,1,2-Tetrachloroethane	9.694	131	40925	4.34	ug/L	90
81) Ethylbenzene	9.730	106	67383	5.03	ug/L	98
82) (m+p)Xylene	9.840	106	167944	10.38	ug/L #	84
83) o-Xylene	10.206	106	80757	4.99	ug/L	90
84) Styrene	10.224	104	137136	4.92	ug/L	93
85) Bromoform	10.377	173	19461	3.68	ug/L	92
86) 2-Chlorobenzotrifluoride	10.456	180	67404	4.68	ug/L	91
87) Isopropylbenzene	10.547	105	206894	5.22	ug/L	98
88) Cyclohexanone	10.614	55	41925	79.56	ug/L	84
89) trans-1,4-Dichloro-2-B...	10.864	53	13552	5.02	ug/L #	61
91) 1,1,2,2-Tetrachloroethane	10.809	83	40208	5.24	ug/L	99
92) Bromobenzene	10.797	156	56580	5.25	ug/L #	89
93) 1,2,3-Trichloropropane	10.840	110	12243	5.74	ug/L	93

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8255.D

Acq On : 6 May 2015 6:01 pm

Operator : F. NAEGLER

Sample : 5.0 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 07 10:06:25 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

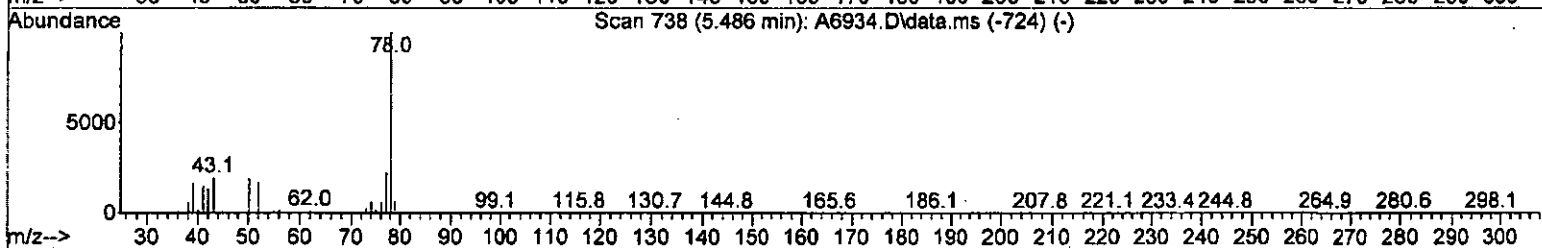
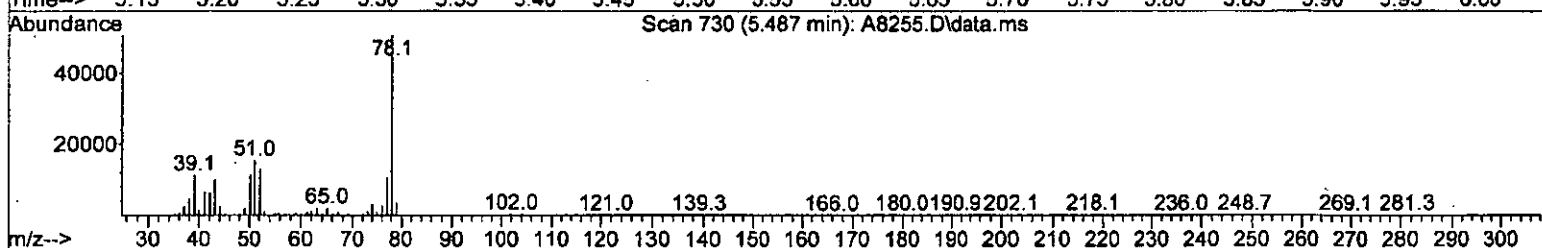
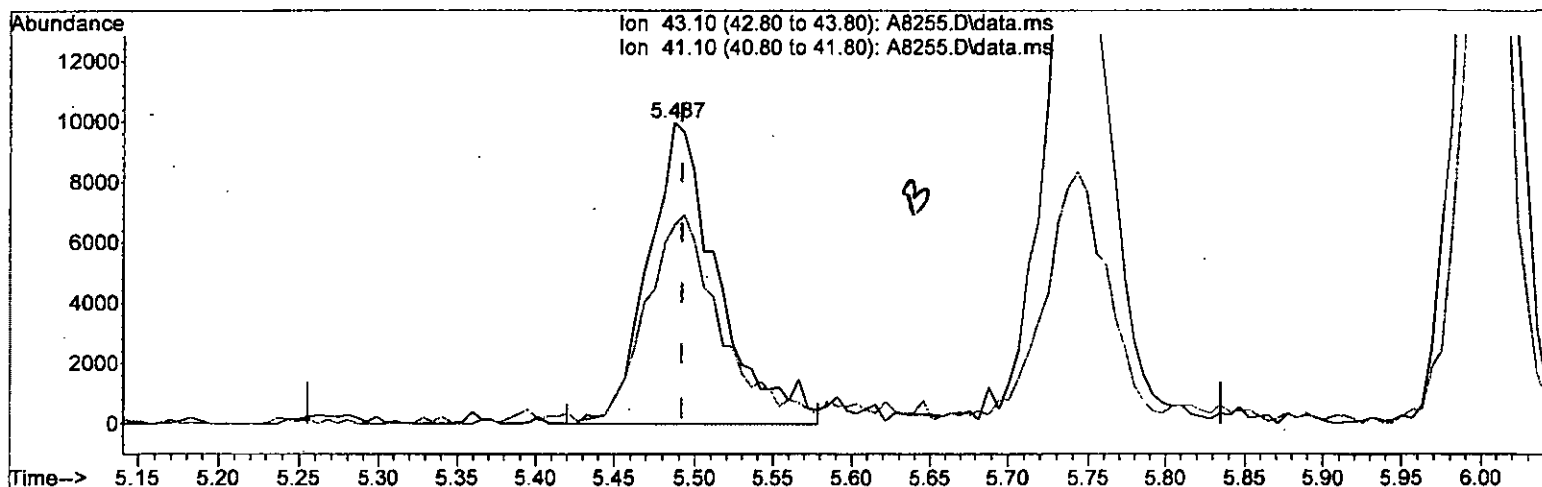
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	242434	5.53	ug/L	98
95) 2-Chlorotoluene	10.974	91	149052	5.37	ug/L	97
96) 3-Chlorotoluene	11.023	91	159230	5.37	ug/L	99
97) 4-Chlorotoluene	11.065	91	175792	5.33	ug/L	99
98) 1,3,5-Trimethylbenzene	11.065	105	178462	5.43	ug/L	96
99) tert-Butylbenzene	11.340	119	155008	5.45	ug/L	96
100) 1,2,4-Trimethylbenzene	11.376	105	185213	5.45	ug/L	100
101) 3,4-Dichlorobenzotrifl...	11.443	214	49222	4.63	ug/L	92
102) sec-Butylbenzene	11.523	105	212342	5.46	ug/L	97
103) p-Isopropyltoluene	11.645	119	187325	5.47	ug/L	97
104) 1,3-Dclbenz	11.602	146	116771	5.50	ug/L	95
105) 1,4-Dclbenz	11.681	146	121409	5.54	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.736	214	46537	4.74	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.773	214	51117	4.70	ug/L	97
108) n-Butylbenzene	11.980	91	163509	5.39	ug/L	97
109) 1,2-Dclbenz	11.980	146	107304	5.43	ug/L	97
110) 1,2-Dibromo-3-chloropr...	12.608	157	6663	4.36	ug/L	98
111) Trielution Dichlorotol...	12.730	125	279552	16.00	ug/L	99
112) 1,3,5-Trichlorobenzene	12.785	180	77506	5.25	ug/L	98
113) Coelution Dichlorotoluene	13.059	125	200965	11.07	ug/L	94
114) 1,2,4-Tcbenzene	13.266	180	65548	5.28	ug/L	97
115) Hexachlorobt	13.406	225	27851	5.04	ug/L	90
116) Naphthalen	13.461	128	126659	5.79	ug/L	96
117) 1,2,3-Tclbenzene	13.650	180	55908	6.04	ug/L	100
118) 2,4,5-Trichlorotoluene	14.236	159	37945	6.30	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	33372	6.49	ug/L	96

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:28:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8255.D\data.ms

(49) Iso-Butyl Alcohol

5.487min (-0.005) 95.24 ug/L

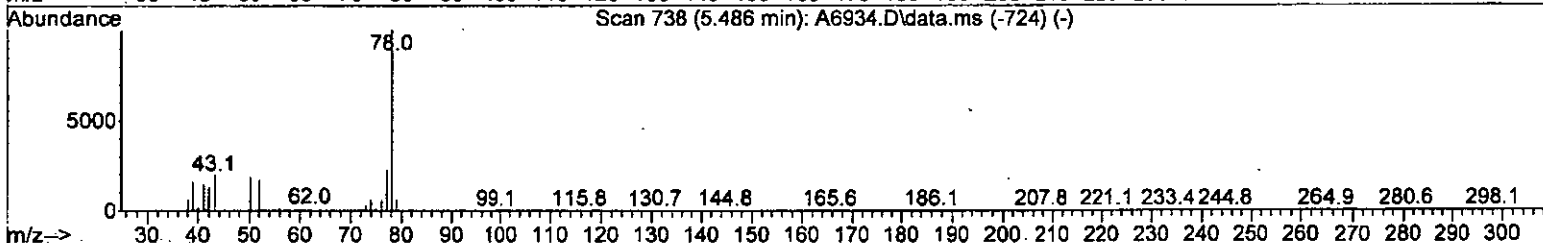
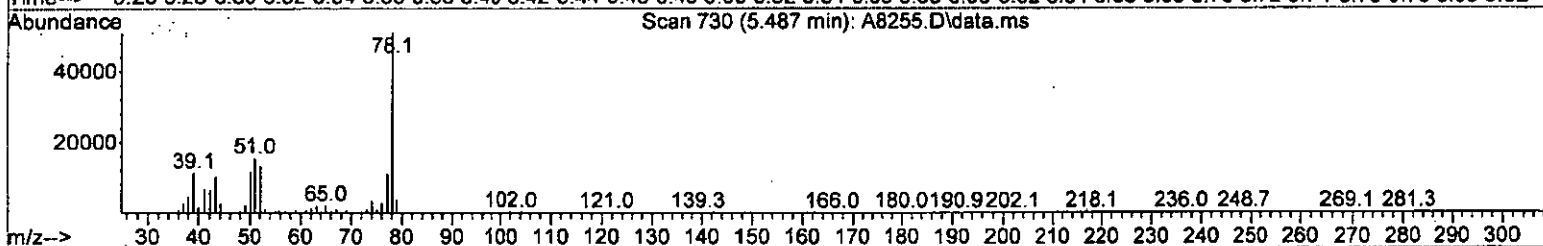
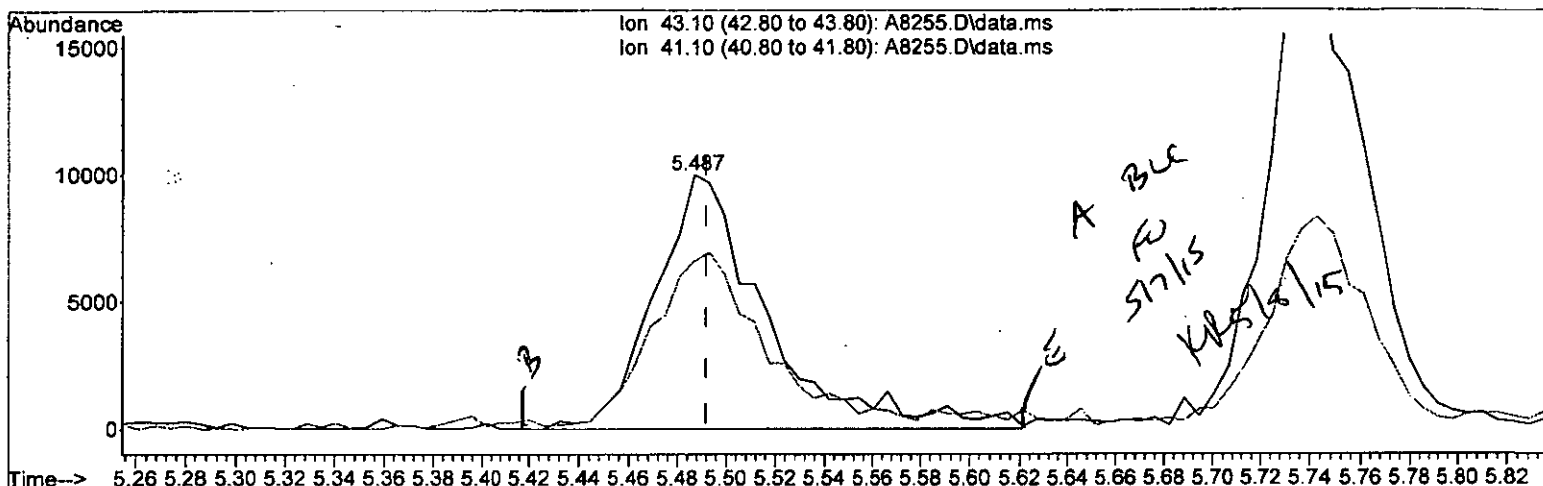
response 30215

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	65.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:28:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration.



TIC: A8255.D\data.ms

(49) Iso-Butyl Alcohol

5.487min (-0.005) 99.24 ug/L m

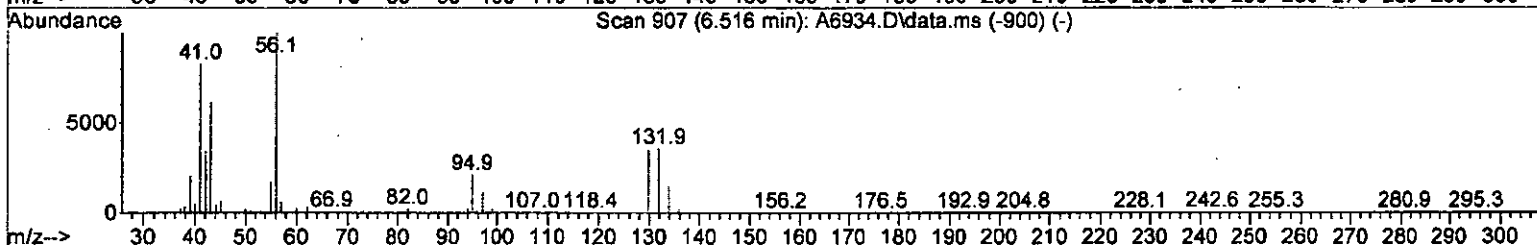
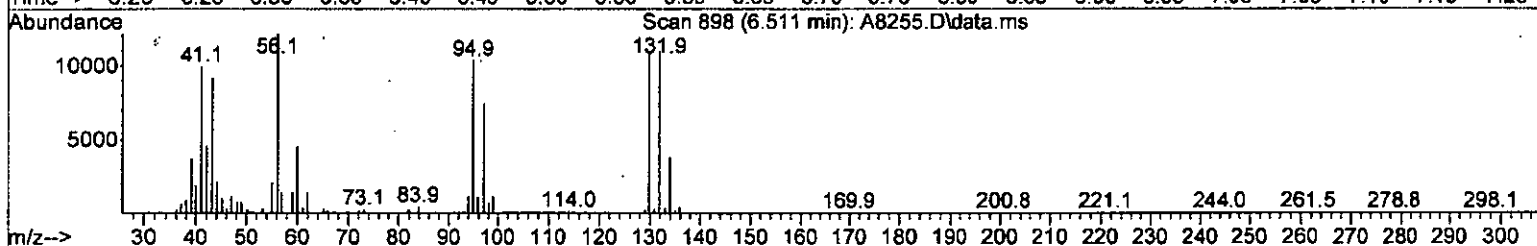
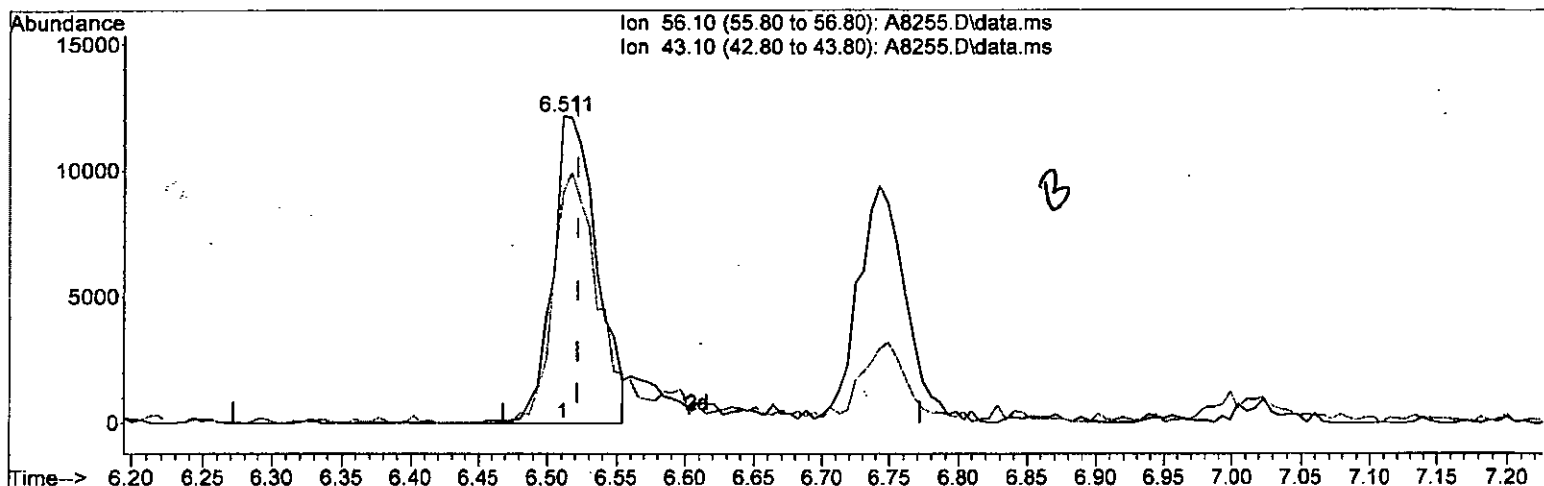
response 31482

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	65.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:28:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8255.D\data.ms

(52) 1-Butanol

6.511min (-0.011) 147.01 ug/L

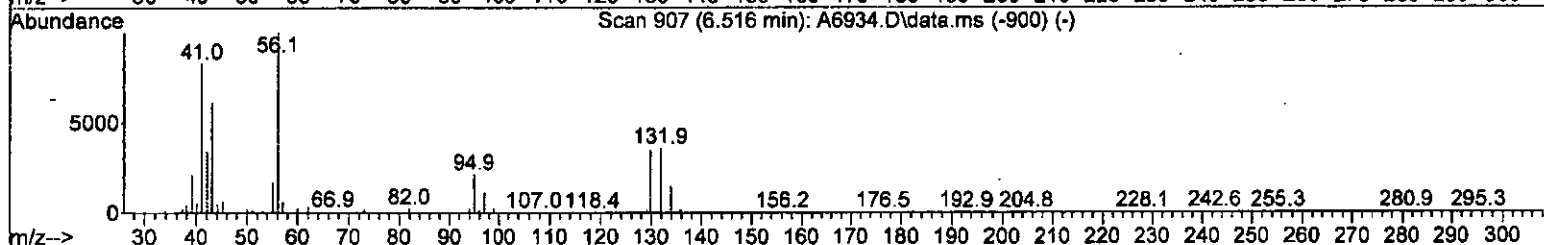
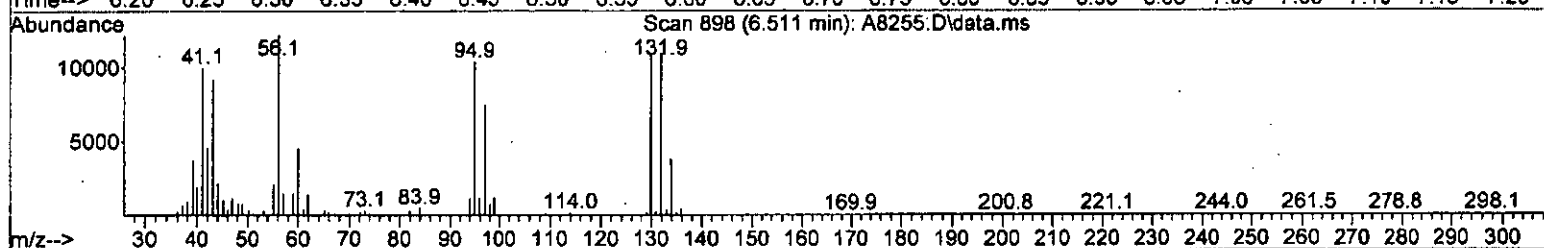
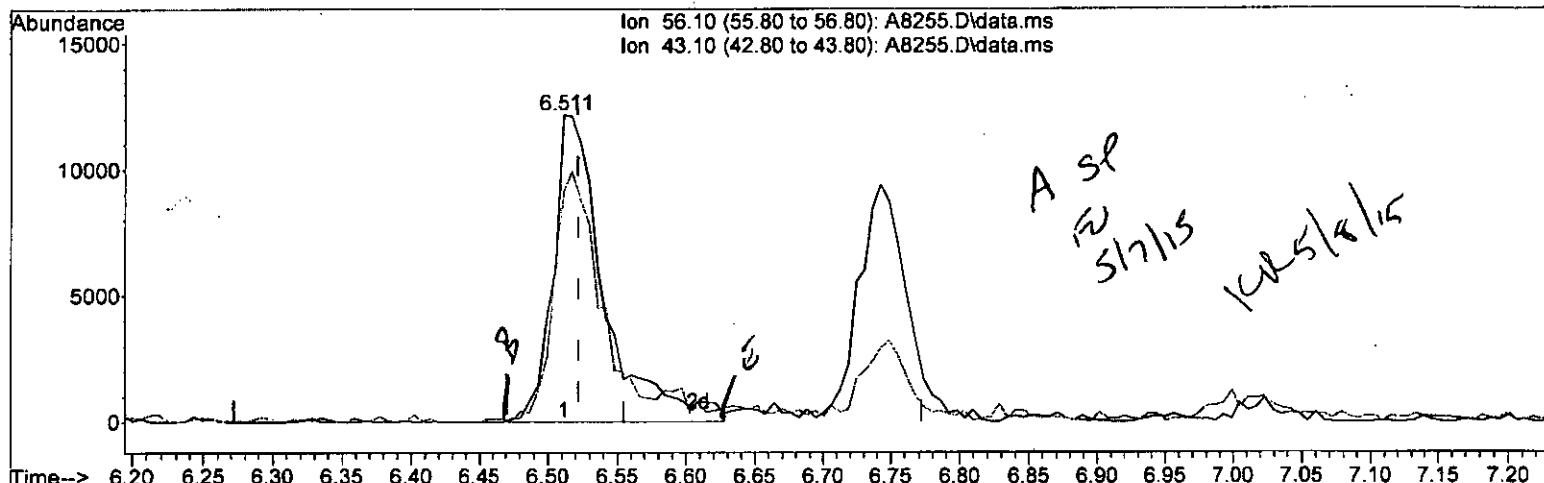
response 26620

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	75.12#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:28:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8255.D\data.ms

(52) 1-Butanol

6.511min (-0.011) 172.79 ug/L m

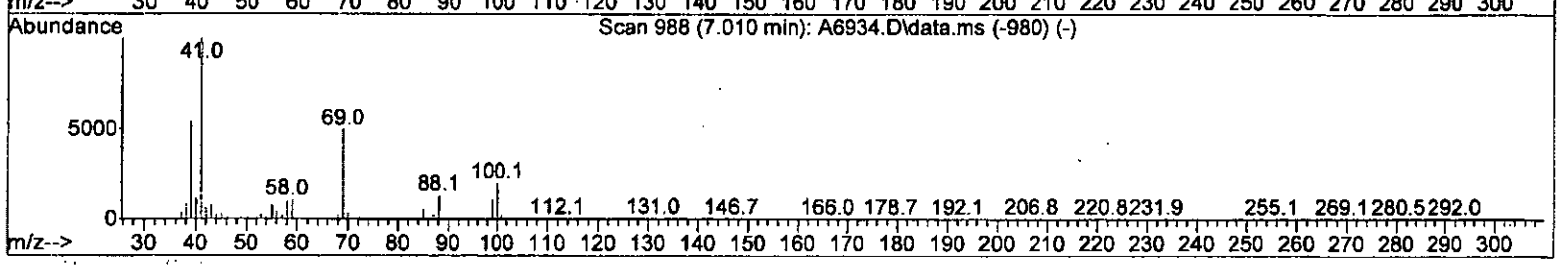
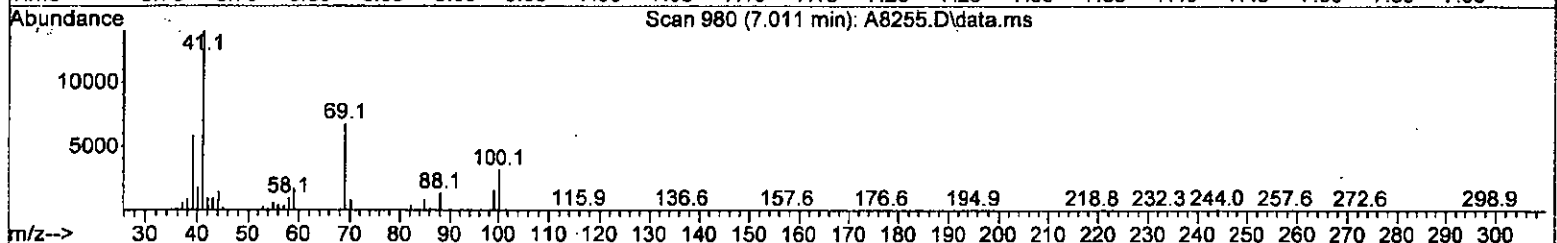
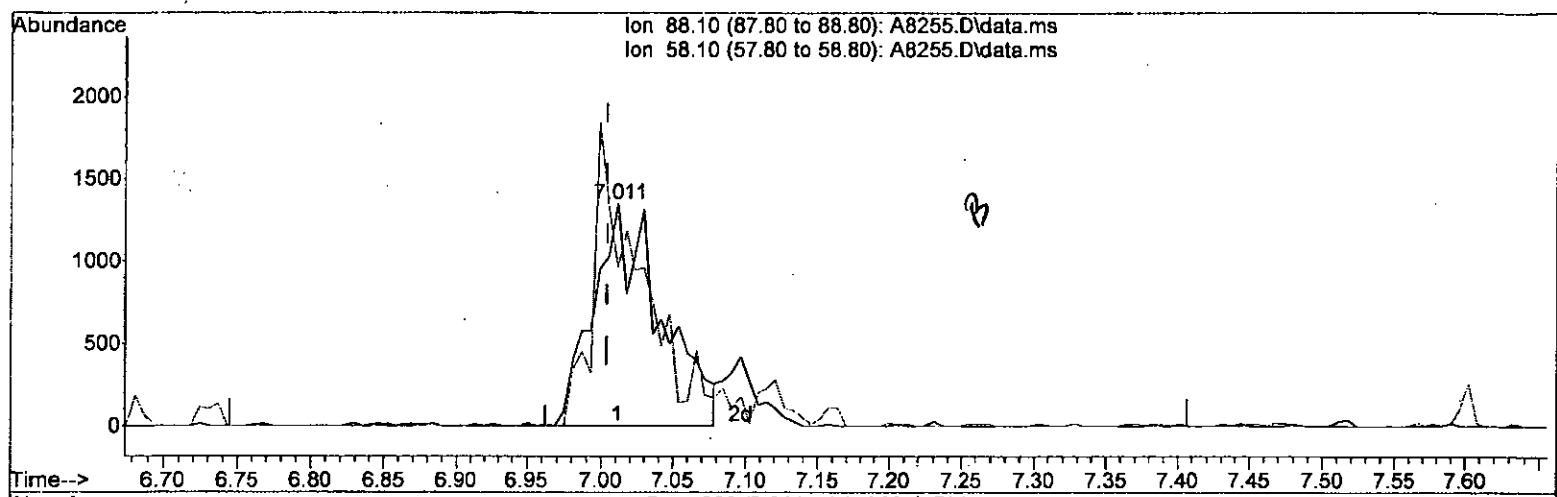
response 31288

Ion	Exp%	Act%
56.10	100	100
43.10	54.10	75.12#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8255.D
Acq On : 6 May 2015 6:01 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 18:16:26 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



TIC: A8255.D\data.ms

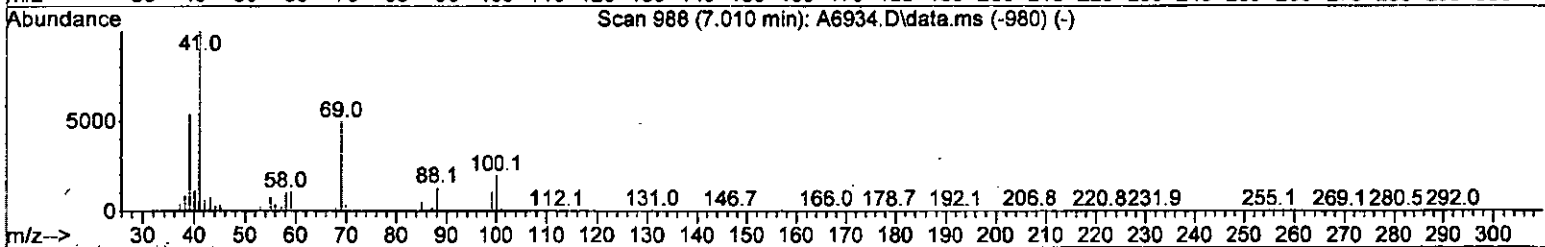
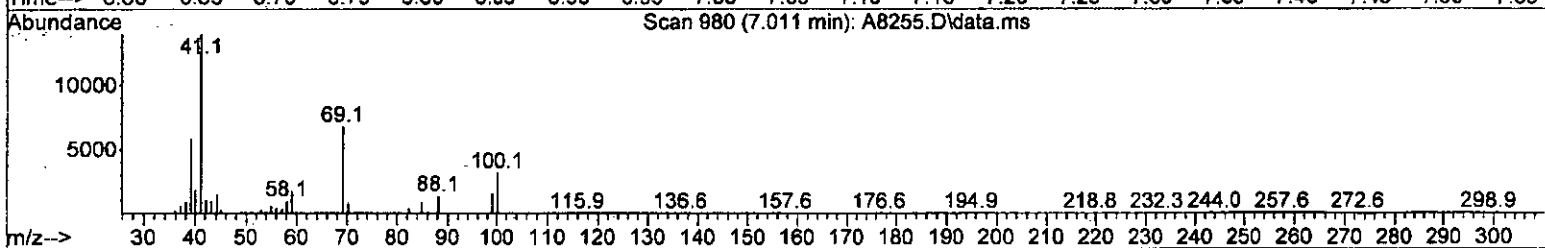
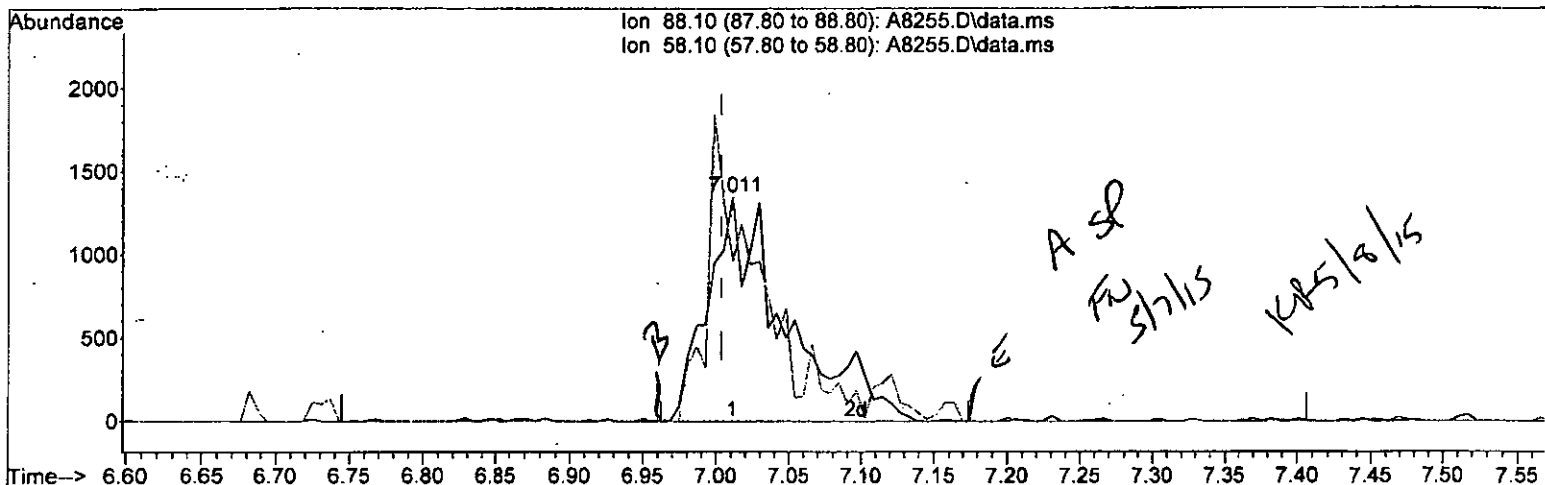
(57) 1,4-Dioxane
7.011min (+0.007) 70.92 ug/L
response 4308

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	71.55
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8255.D
 Acq On : 6 May 2015 6:01 pm
 Operator : F. NAEGLER
 Sample : 5.0 PPB STD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 18:16:26 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8255.D\data.ms

(57) 1,4-Dioxane

7.011min (+0.007) 81.52 ug/L m

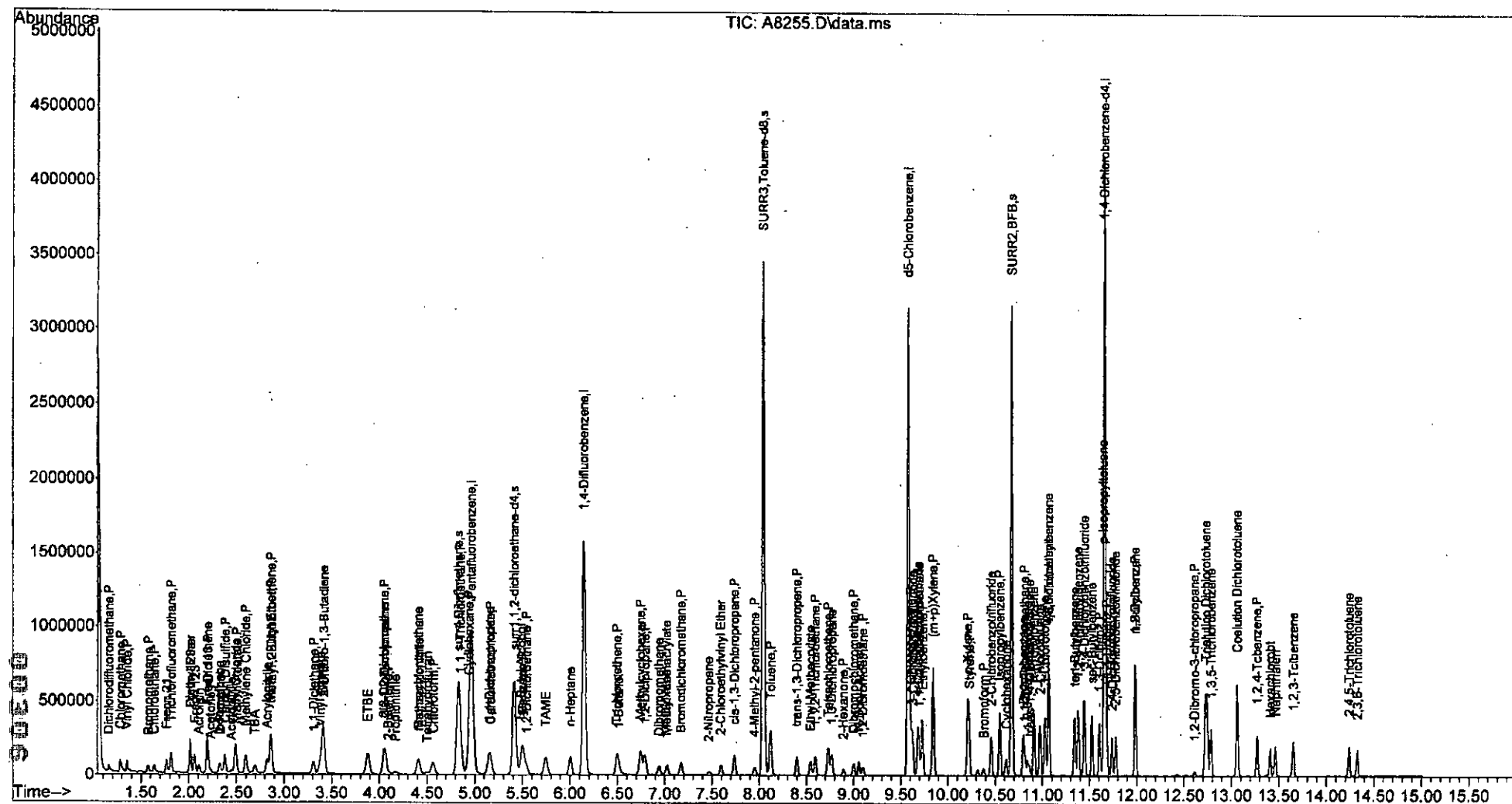
response 4952

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	71.55
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8255.D
Acq On : 6 May 2015 6:01 pm
Operator : F. NAEGLER
Sample : 5.0 PPB STD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:06:25 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8256.D

Acq On : 6 May 2015 6:31 pm

Operator : F. NAEGLER

Sample : 20 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 10:53:28 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FW
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	949389	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1466574	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1380271	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	796836	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibromomethane	4.829	113	622912	71.06	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	142.12%#	
46) surr1,1,2-dichloroetha...	5.414	65	641733	70.32	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	140.64%#	
64) SURR3,Toluene-d8	8.041	98	2382430	70.77	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	141.54%#	
69) SURR2,BFB	10.675	95	949418	64.30	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	128.60%#	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	211640m	23.48	ug/L	
3) Chloromethane	1.281	50	347073	30.75	ug/L	94
4) Vinyl Chloride	1.354	62	247604	23.55	ug/L	99
5) Bromomethane	1.573	94	97912	26.98	ug/L	99
6) Chloroethane	1.640	64	119128	19.81	ug/L	95
7) Freon 21	1.762	67	297818	18.17	ug/L	97
8) Trichlorofluoromethane	1.811	101	248148	19.09	ug/L	99
9) Diethyl Ether	2.012	59	151358	22.23	ug/L #	78
10) Freon 123a	2.012	67	177210	17.32	ug/L	87
11) Freon 123	2.061	83	194771	17.21	ug/L	79
12) Acrolein	2.110	56	127938	129.01	ug/L	93
13) 1,1-Dicethene	2.195	96	133151	18.33	ug/L #	85
14) Freon 113	2.195	101	137613	17.23	ug/L	100
15) Acetone	2.226	43	51133m	22.84	ug/L	
16) 2-Propanol	2.329	45	179860	438.53	ug/L	91
17) Iodomethane	2.323	142	173700	35.60	ug/L	96
18) Carbon Disulfide	2.378	76	385992	14.49	ug/L	97
19) Acetonitrile	2.451	40	42141	135.42	ug/L	96
20) Allyl Chloride	2.488	76	82915	19.27	ug/L #	6
21) Methyl Acetate	2.500	43	123610	24.69	ug/L	85
22) Methylene Chloride	2.597	84	162416	20.13	ug/L #	66
23) TBA	2.695	59	238962	385.49	ug/L	77
24) Acrylonitrile	2.817	53	311911	135.69	ug/L	95
25) Methyl-t-Butyl Ether	2.866	73	382890	17.89	ug/L	88
26) trans-1,2-Dichloroethene	2.860	96	147726	17.88	ug/L #	78
27) 1,1-Dicethane	3.305	63	331462	21.54	ug/L	98
28) Vinyl Acetate	3.378	86	22187	15.19	ug/L #	65
29) DIPE	3.408	45	994988	29.81	ug/L #	74
30) 2-Chloro-1,3-Butadiene	3.420	53	319679	17.91	ug/L	87
31) ETBE	3.878	59	663727	23.51	ug/L	91
32) 2,2-Dichloropropane	4.048	77	207998	17.27	ug/L	96
33) cis-1,2-Dichloroethene	4.054	96	178533	19.40	ug/L	87
34) 2-Butanone	4.091	43	79408	25.87	ug/L	90
35) Propionitrile	4.164	54	103289	123.97	ug/L	99

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8256.D

Acq On : 6 May 2015 6:31 pm

Operator : F. NAEGLER

Sample : 20 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 10:53:28 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	109885	21.31	ug/L #	64
37) Methacrylonitrile	4.402	67	48951	19.96	ug/L #	37
38) Tetrahydrofuran	4.499	42	50942	25.25	ug/L	71
39) Chloroform	4.560	83	295285	20.33	ug/L	96
40) 1,1,1-Trichloroethane	4.859	97	244637	18.35	ug/L	98
42) Cyclohexane	4.951	41	239227	21.33	ug/L	88
44) Carbontetrachloride	5.158	121	62294	15.61	ug/L	88
45) 1,1-Dichloropropene	5.158	75	214541	18.14	ug/L	94
47) Benzene	5.499	78	677106	18.96	ug/L	81
48) 1,2-Dichloroethane	5.536	62	238618	20.01	ug/L	92
49) Iso-Butyl Alcohol	5.487	43	128448m	398.15	ug/L	
50) TAME	5.743	73	418073	18.21	ug/L	82
51) n-Heptane	6.005	43	294038	23.85	ug/L #	80
52) 1-Butanol	6.517	56	142059	771.46	ug/L	81
53) Trichloroethene	6.493	130	189140	19.58	ug/L	96
54) Methylcyclohexane	6.749	55	258967	19.40	ug/L #	82
55) 1,2-Dichloropropane	6.792	63	200360	21.03	ug/L	96
56) Dibromomethane	6.938	93	89458	18.66	ug/L	97
57) 1,4-Dioxane	6.999	88	19903m	322.20	ug/L	
58) Methyl Methacrylate	7.023	69	78190	16.86	ug/L #	54
59) Bromodichloromethane	7.176	83	208922	17.51	ug/L	97
60) 2-Nitropropane	7.468	41	43942	22.06	ug/L	94
61) 2-Chloroethylvinyl Ether	7.596	63	83051	18.29	ug/L	89
62) cis-1,3-Dichloropropene	7.737	75	242732	17.04	ug/L	99
63) 4-Methyl-2-pentanone	7.950	43	160039	21.95	ug/L	87
65) Toluene	8.121	91	737900	19.44	ug/L	97
66) trans-1,3-Dichloropropene	8.401	75	201254	16.28	ug/L	98
67) Ethyl Methacrylate	8.541	69	158071	16.32	ug/L #	50
68) 1,1,2-Trichloroethane	8.590	97	135540	19.18	ug/L	98
71) Tetrachloroethene	8.730	164	144677	18.90	ug/L	98
72) 2-Hexanone	8.895	43	107205	21.65	ug/L	85
73) 1,3-Dichloropropane	8.767	76	225024	20.73	ug/L #	74
74) Dibromochloromethane	8.999	129	152966	17.75	ug/L	100
75) N-Butyl Acetate	9.053	43	276336	22.31	ug/L	91
76) 1,2-Dibromoethane	9.096	107	130210	19.85	ug/L	98
77) 3-Chlorobenzotrifluoride	9.627	180	267273	18.11	ug/L	96
78) Chlorobenzene	9.602	112	510129	20.18	ug/L	98
79) 4-Chlorobenzotrifluoride	9.681	180	236714	17.63	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.694	131	166805	17.59	ug/L	98
81) Ethylbenzene	9.730	106	258558	19.21	ug/L	92
82) (m+p)Xylene	9.840	106	641688	39.45	ug/L	87
83) o-Xylene	10.206	106	314735	19.33	ug/L	99
84) Styrene	10.218	104	555696	19.84	ug/L	99
85) Bromoform	10.376	173	82515	15.51	ug/L	97
86) 2-Chlorobenzotrifluoride	10.456	180	253343	17.48	ug/L	89
87) Isopropylbenzene	10.547	105	815131	20.44	ug/L	99
88) Cyclohexanone	10.614	55	155493	293.49	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.858	53	52745	19.42	ug/L #	76
91) 1,1,2,2-Tetrachloroethane	10.815	83	163661	21.11	ug/L	94
92) Bromobenzene	10.797	156	217956	20.03	ug/L	93
93) 1,2,3-Trichloropropane	10.840	110	45674	21.19	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8256.D

Acq On : 6 May 2015 6:31 pm

Operator : F. NAEGLER

Sample : 20 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 07 10:53:28 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

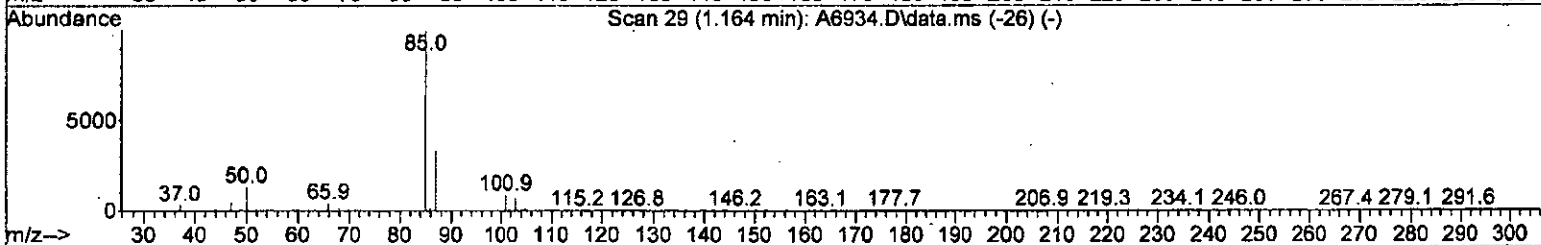
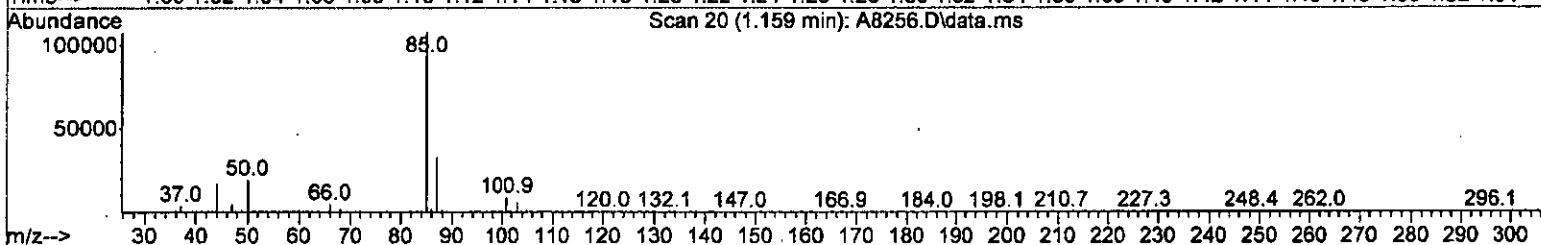
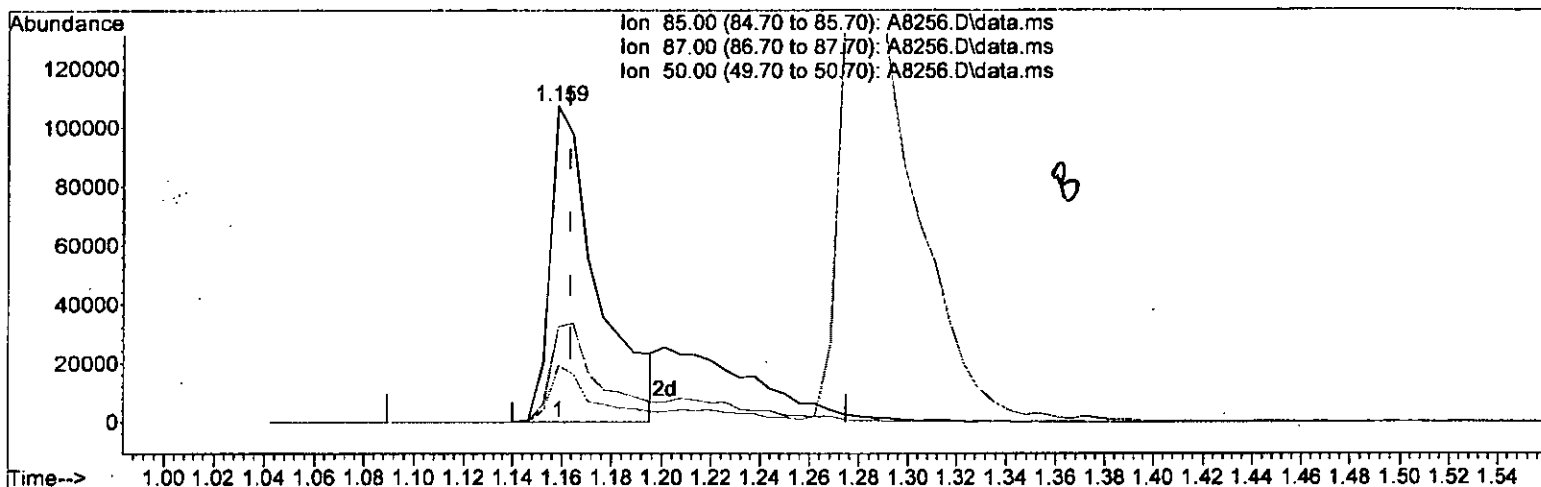
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	944830	21.35	ug/L	100
95) 2-Chlorotoluene	10.974	91	575592	20.53	ug/L	98
96) 3-Chlorotoluene	11.023	91	592655	19.79	ug/L	98
97) 4-Chlorotoluene	11.065	91	685064	20.57	ug/L	97
98) 1,3,5-Trimethylbenzene	11.065	105	694247	20.89	ug/L	98
99) tert-Butylbenzene	11.340	119	582565	20.28	ug/L	97
100) 1,2,4-Trimethylbenzene	11.376	105	720085	20.96	ug/L	98
101) 3,4-Dichlorobenzotrifl...	11.443	214	189084	17.62	ug/L	92
102) sec-Butylbenzene	11.523	105	826113	21.01	ug/L	98
103) p-Isopropyltoluene	11.644	119	731296	21.14	ug/L	97
104) 1,3-Dclbenz	11.602	146	447665	20.89	ug/L	97
105) 1,4-Dclbenz	11.681	146	465009	21.01	ug/L	95
106) 2,4-Dichlorobenzotrifl...	11.736	214	171292	17.26	ug/L	95
107) 2,5-Dichlorobenzotrifl...	11.772	214	197062	17.93	ug/L	95
108) n-Butylbenzene	11.980	91	636940	20.79	ug/L	98
109) 1,2-Dclbenz	11.986	146	421219	21.10	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.614	157	27476	17.79	ug/L	88
111) Trielution Dichlorotol...	12.730	125	1095500	62.05	ug/L	98
112) 1,3,5-Trichlorobenzene	12.784	180	292570	19.62	ug/L	98
113) Coelution Dichlorotoluene	13.059	125	786062	42.86	ug/L	94
114) 1,2,4-Tcbenzene	13.266	180	261015	20.80	ug/L	97
115) Hexachlorobt	13.406	225	102022	18.28	ug/L	98
116) Naphthalen	13.461	128	510532	23.11	ug/L	99
117) 1,2,3-Tclbenzene	13.650	180	213035	22.77	ug/L	98
118) 2,4,5-Trichlorotoluene	14.235	159	152513	25.04	ug/L	99
119) 2,3,6-Trichlorotoluene	14.321	159	133994	25.79	ug/L	97

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1.

Inst : MSVOA10

Quant Time: May 06 18:46:13 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (-0.005) 15.93 ug/L

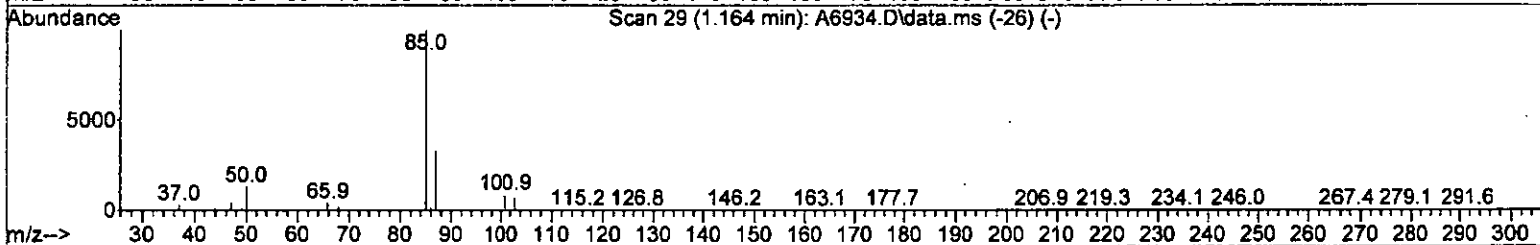
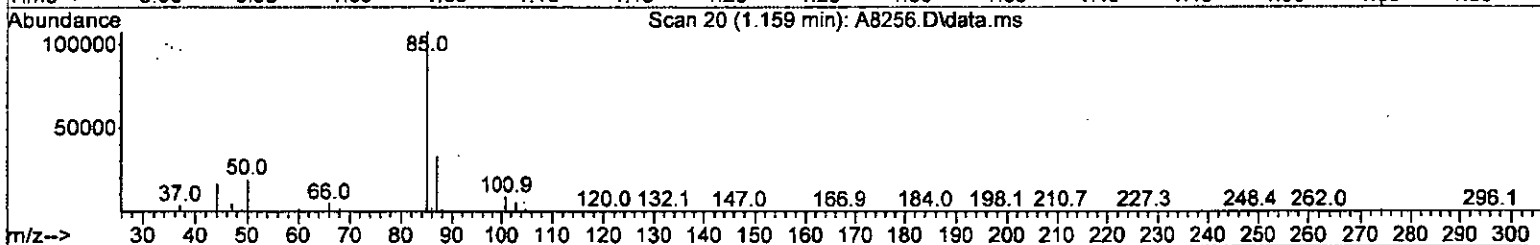
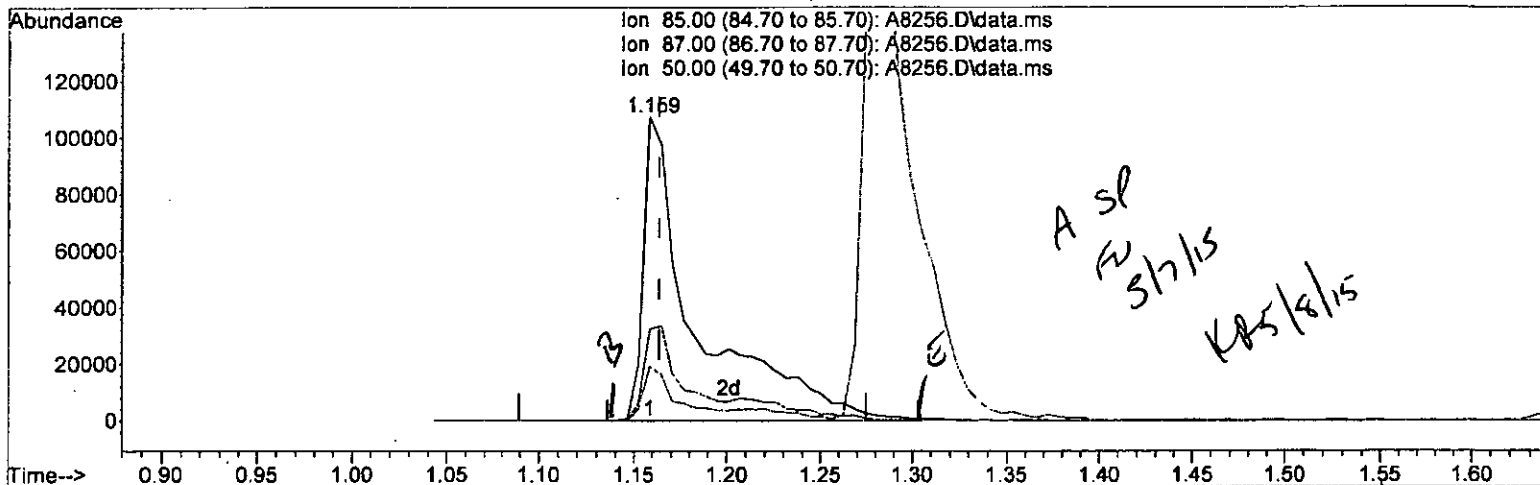
response 143545

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.22
50.00	15.00	17.84
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 18:46:13 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (-0.005) 23.48 ug/L m

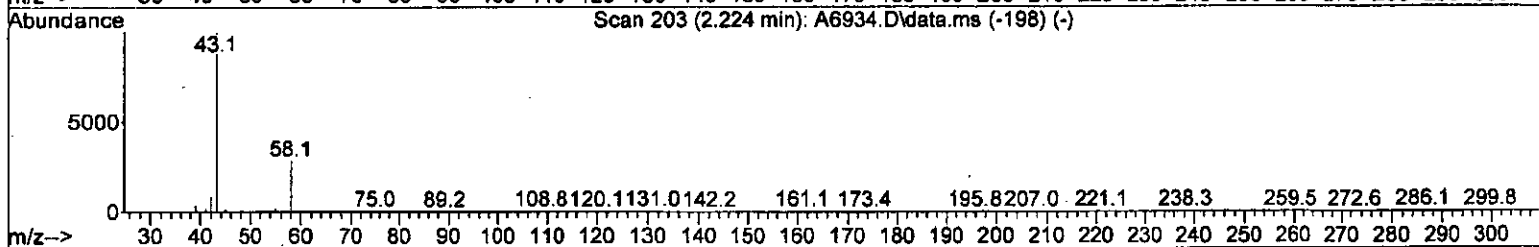
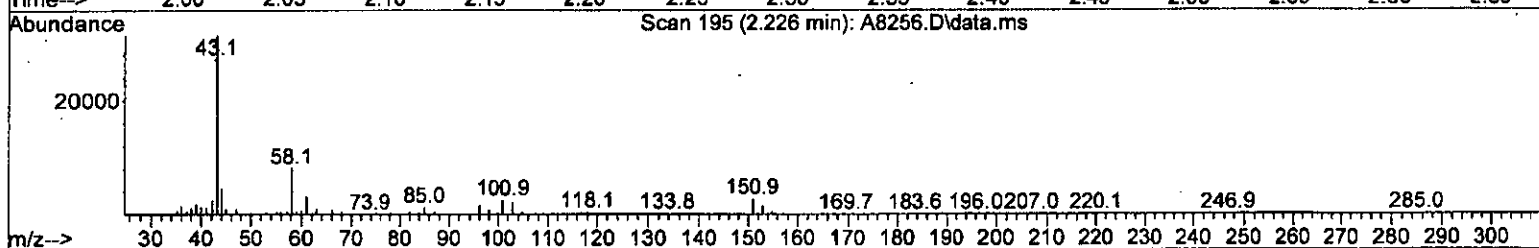
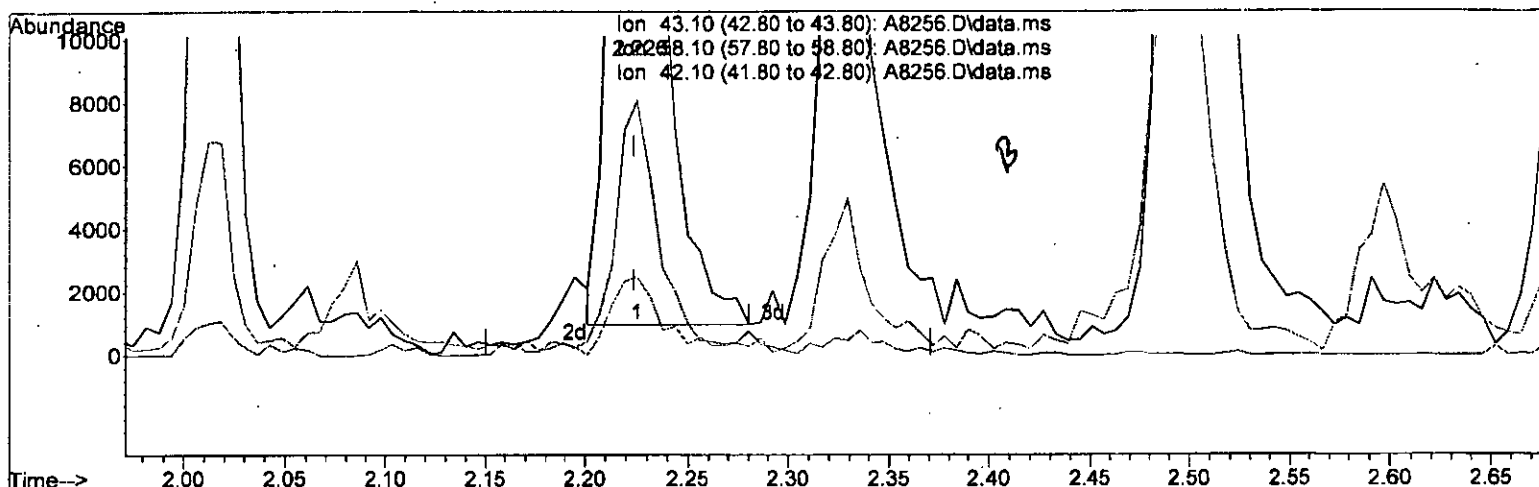
response 211640

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.22
50.00	15.00	17.84
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:07:10 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(15) Acetone (P)

2.226min (+0.002) 20.78 ug/L

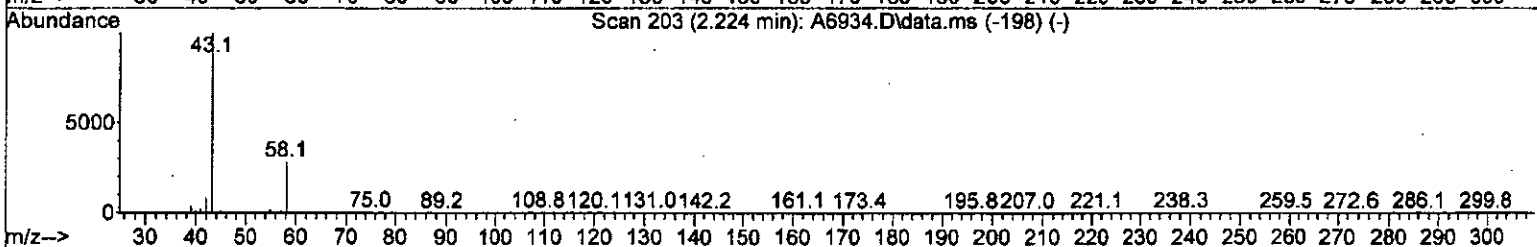
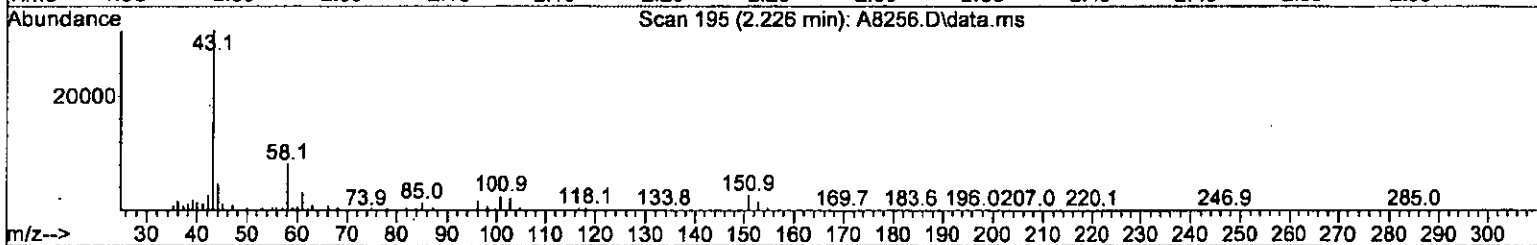
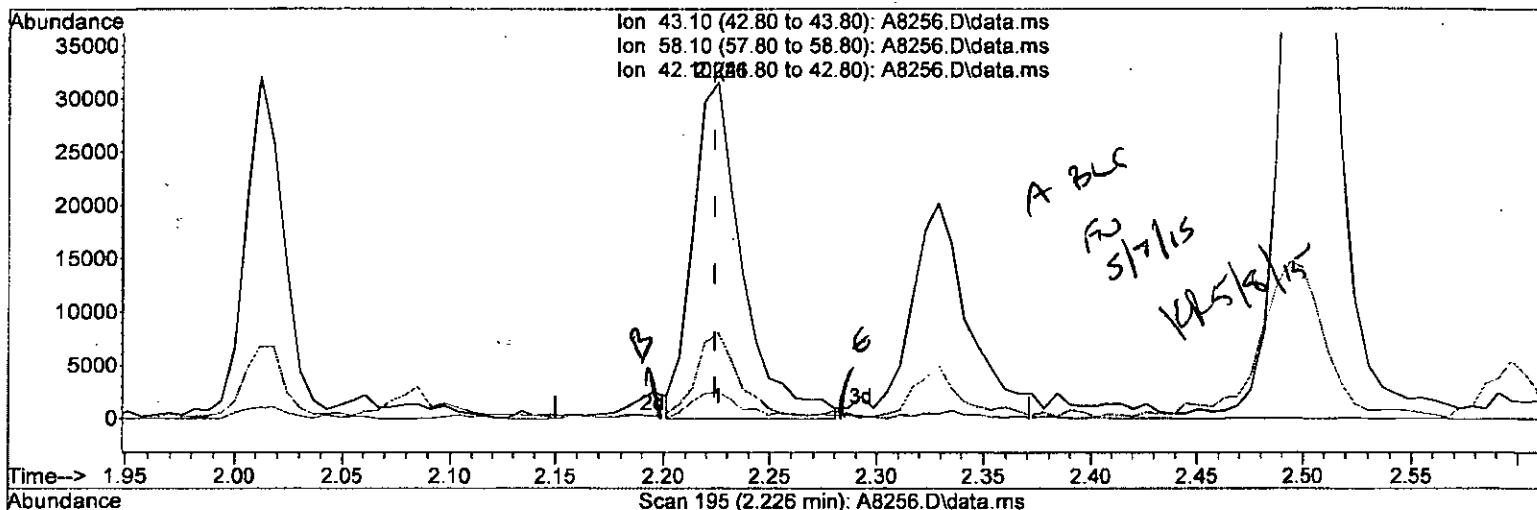
response 46524

Ion	Exp%	Act%
43.10	100	100
58.10	24.80	25.57
42.10	8.00	7.90
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 10:53:28 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(15) Acetone (P)

2.226min (+0.002) 22.84 ug/L m

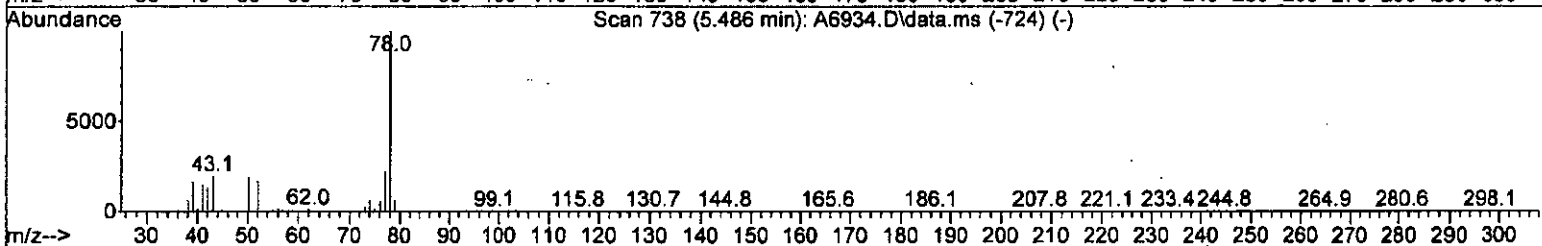
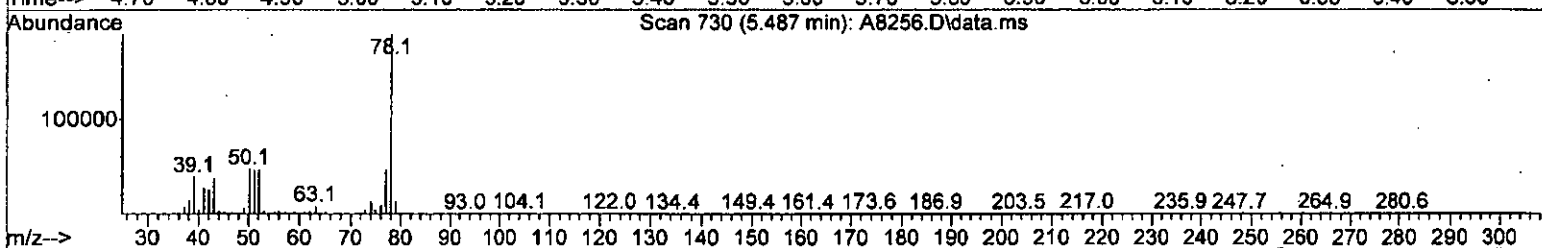
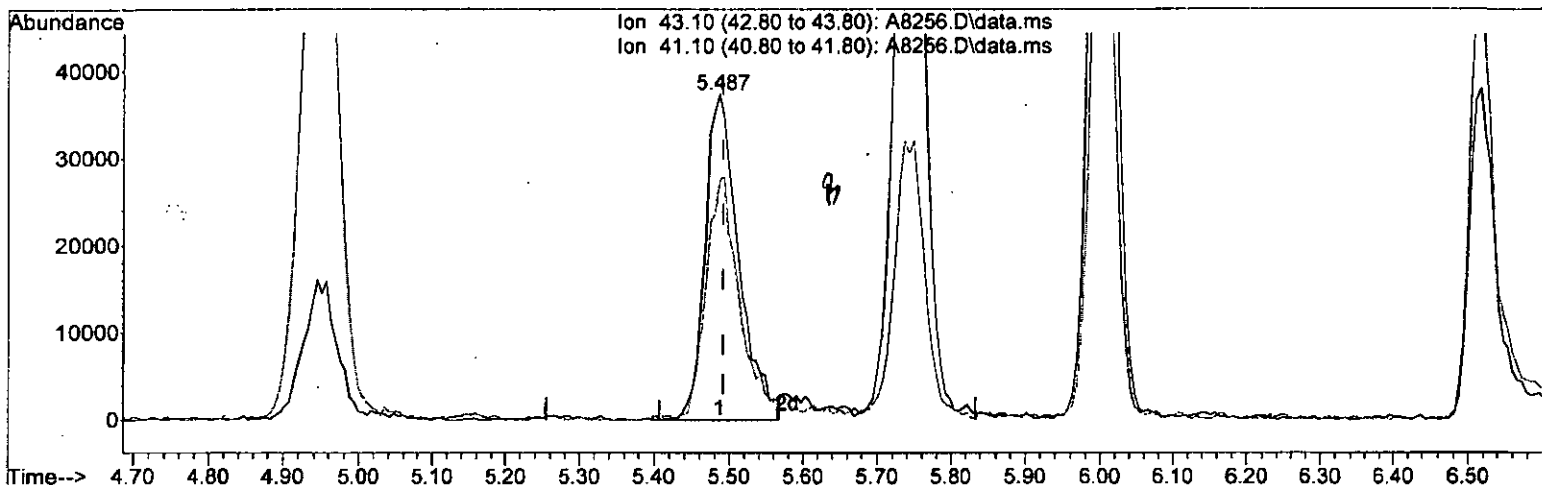
response 51133

Ion	Exp%	Act%
43.10	100	100
58.10	24.80	25.57
42.10	8.00	7.90
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:37:20 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(49) Iso-Butyl Alcohol

5.487min (-0.005) 362.84 ug/L

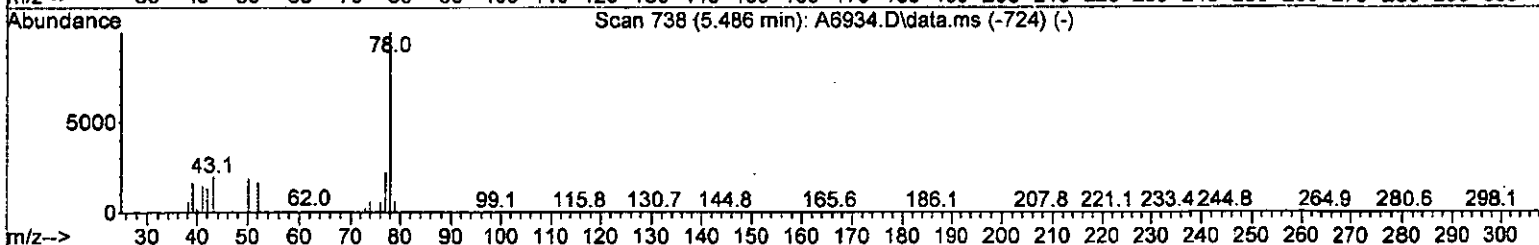
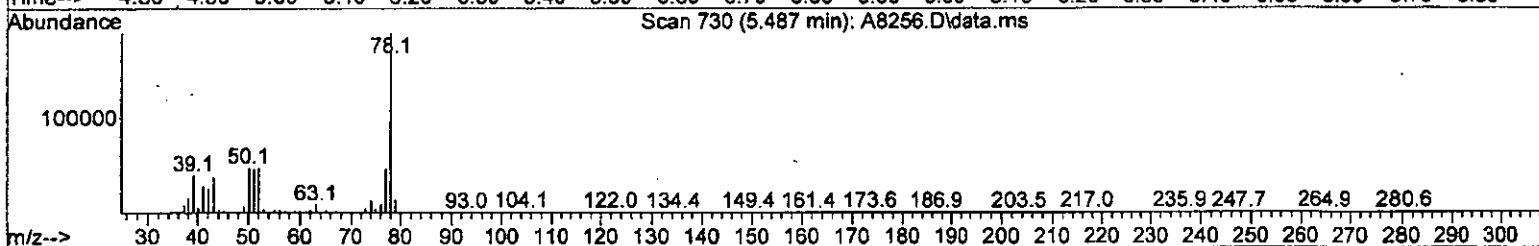
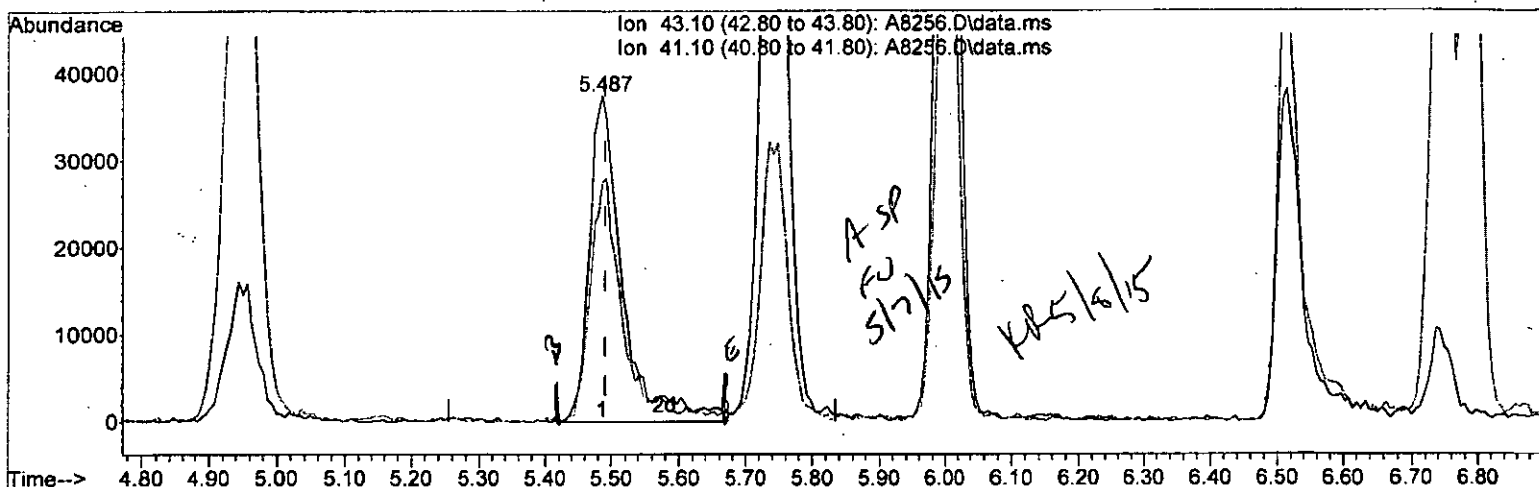
response 117055

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	73.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:37:20 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(49) Iso-Butyl Alcohol

5.487min (-0.005) 398.15 ug/L m

response 128448

Ion	Exp%	Act%
43.10	100	100
41.10	80.50	73.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8256.D

Acq On : 6 May 2015 6:31 pm

Operator : F. NAEGLER

Sample : 20 PPB STD

Misc :

ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

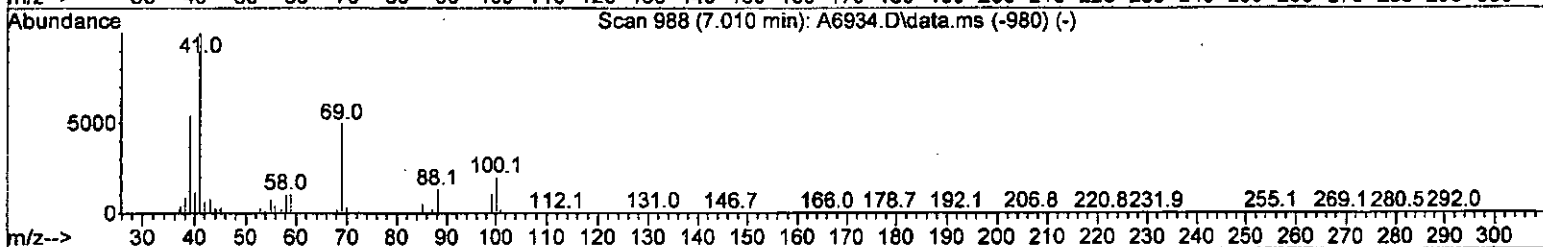
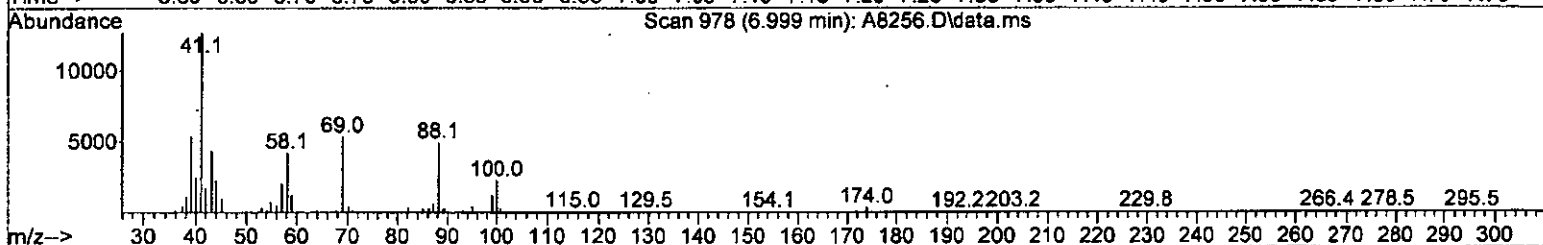
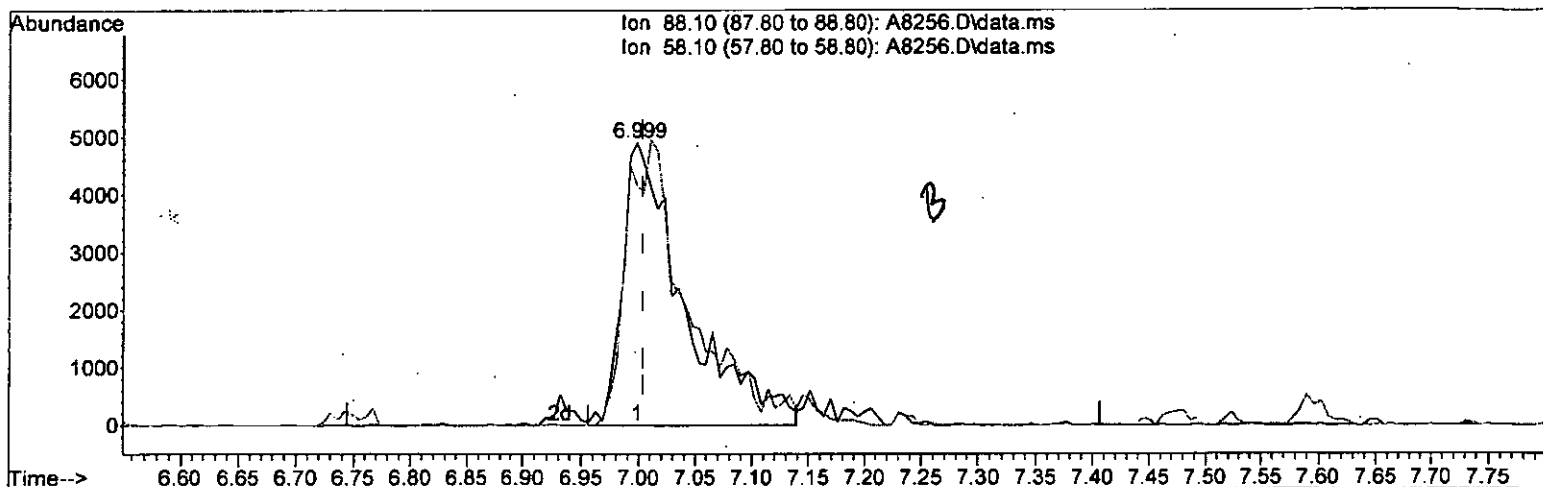
Quant Time: May 06 18:46:13 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



TIC: A8256.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.005) 300.43 ug/L

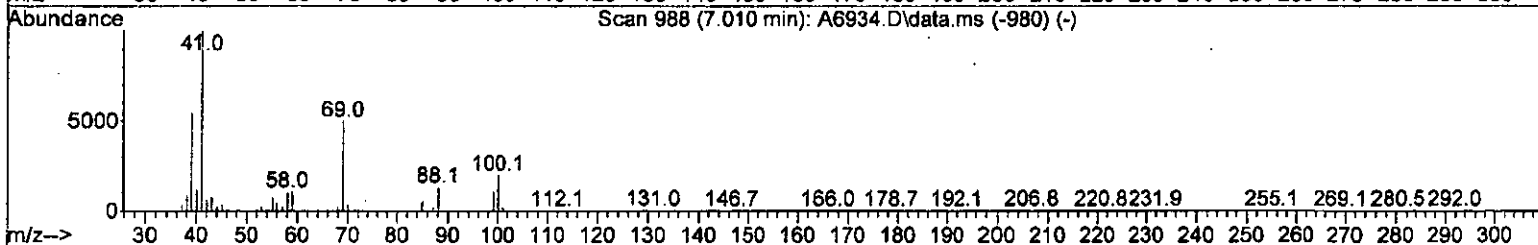
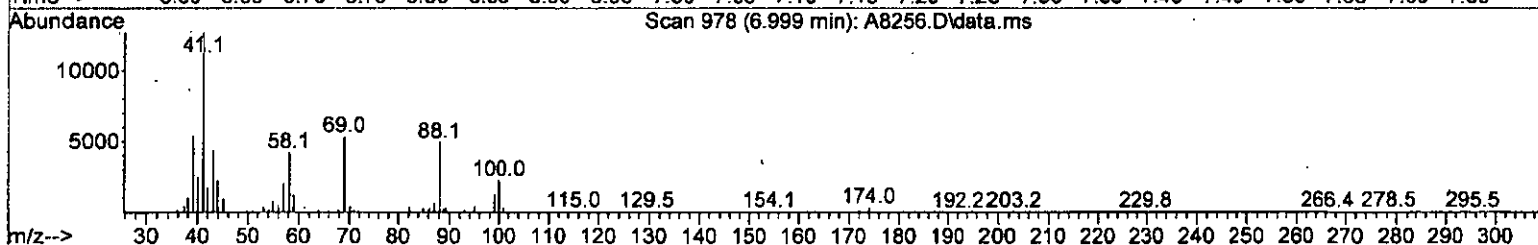
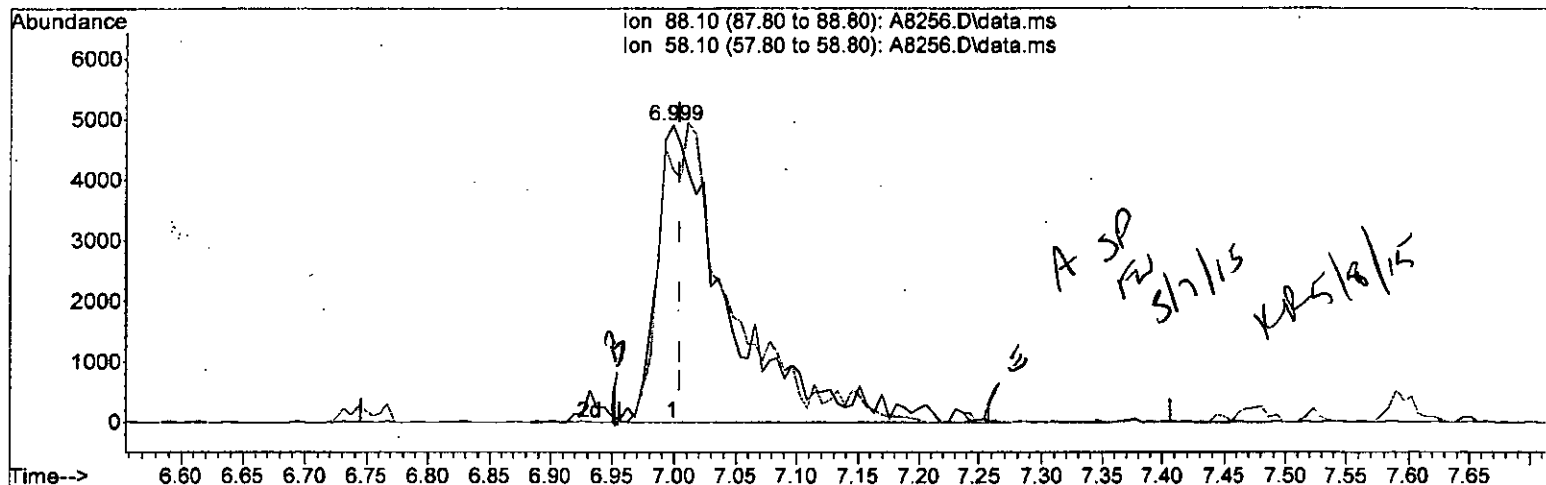
response 18558

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	84.87#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8256.D
 Acq On : 6 May 2015 6:31 pm
 Operator : F. NAEGLER
 Sample : 20 PPB STD
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 18:46:13 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8256.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.005) 322.20 ug/L m

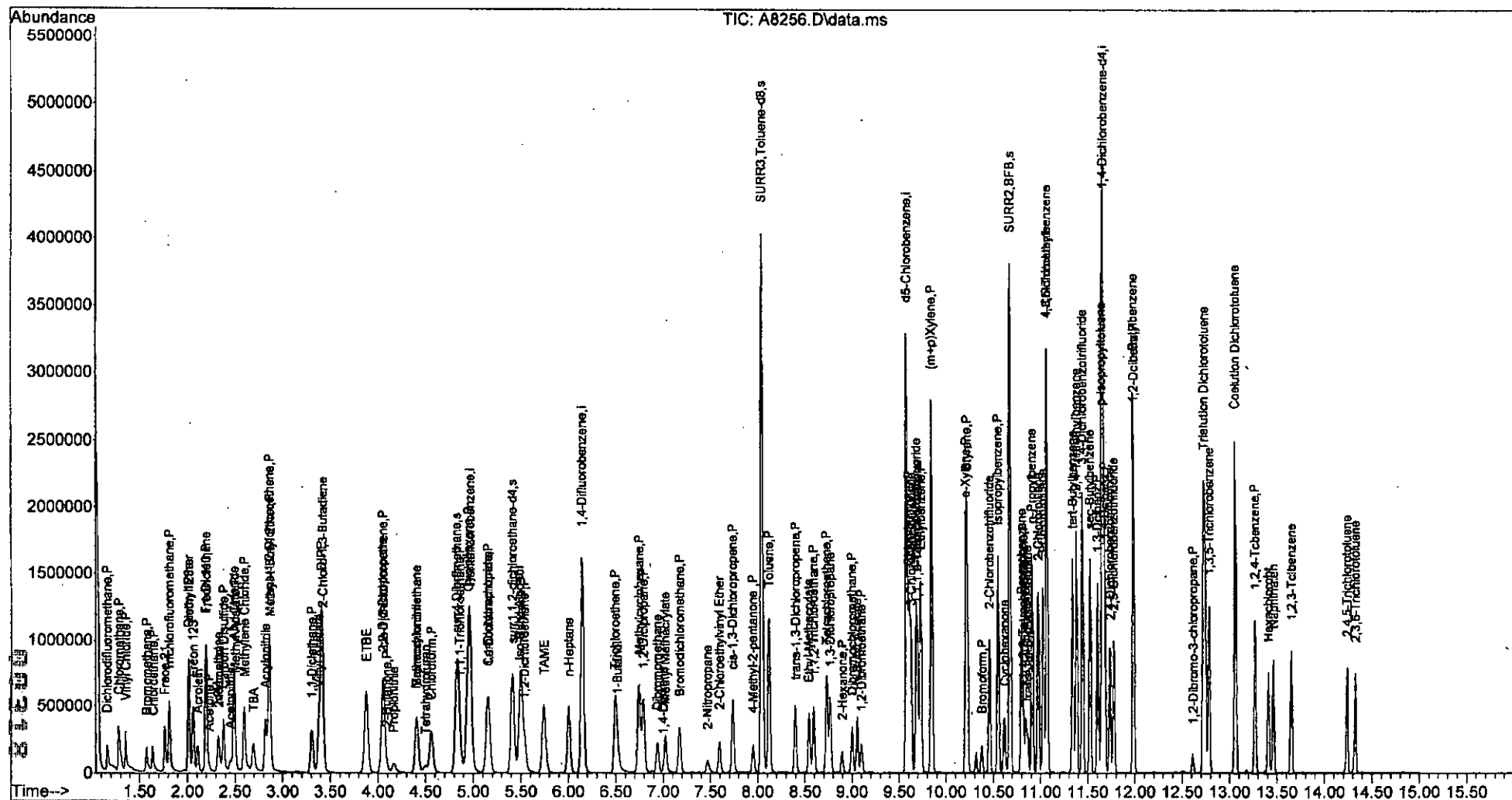
response 19903

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	84.87#
0.00	0.00	0.00
0.00	0.00	0.00

```
Data Path : I:\ACQUDATA\msvoa10\data\050615\  
Data File : A8256.D  
Acq On    : 6 May 2015    6:31 pm  
Operator  : F. NAEGLER  
Sample    : 20 PPB STD  
Misc      :  
ALS Vial  : 7    Sample Multiplier: 1
```

Inst : MSVOA10

Quant Time: May 07 10:53:28 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8257.D

Acq On : 6 May 2015 7:00 pm

Operator : F. NAEGLER

Sample : 50 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 09:38:34 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FW
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	960841	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1474627	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1395683	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	825795	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrlmethane	4.835	113	445808	50.58	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	101.16%		
46) surr1,1,2-dichloroetha...	5.414	65	457316	49.84	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	99.68%		
64) SURR3,Toluene-d8	8.042	98	1724660	50.95	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	101.90%		
69) SURR2,BFB	10.675	95	707602	47.66	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	95.32%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	542694	59.49	ug/L	99
3) Chloromethane	1.281	50	922823	80.78	ug/L	98
4) Vinyl Chloride	1.348	62	668928	62.86	ug/L	99
5) Bromomethane	1.573	94	260661	70.97	ug/L	99
6) Chloroethane	1.634	64	315333	51.82	ug/L	93
7) Freon 21	1.762	67	843693	50.85	ug/L	97
8) Trichlorofluoromethane	1.811	101	648201	49.27	ug/L	100
9) Diethyl Ether	2.012	59	398346	57.81	ug/L #	77
10) Freon 123a	2.012	67	502353	48.50	ug/L	92
11) Freon 123	2.061	83	536236m	46.82	ug/L	
12) Acrolein	2.110	56	367947	366.60	ug/L	99
13) 1,1-Dicethene	2.195	96	345280	46.96	ug/L #	83
14) Freon 113	2.195	101	359534	44.48	ug/L	89
15) Acetone	2.226	43	134940	59.55	ug/L	100
16) 2-Propanol	2.329	45	520643	1254.29	ug/L	96
17) Iodomethane	2.317	142	551496	111.67	ug/L	100
18) Carbon Disulfide	2.378	76	1252938	46.49	ug/L	99
19) Acetonitrile	2.451	40	108935	345.89	ug/L	93
20) Allyl Chloride	2.488	76	234028	53.74	ug/L #	3
21) Methyl Acetate	2.506	43	336714	66.45	ug/L	84
22) Methylene Chloride	2.597	84	411263	50.36	ug/L #	64
23) TBA	2.695	59	621738	991.02	ug/L	72
24) Acrylonitrile	2.823	53	781656	336.00	ug/L	100
25) Methyl-t-Butyl Ether	2.866	73	987469	45.60	ug/L	87
26) trans-1,2-Dichloroethene	2.860	96	390743	46.74	ug/L #	80
27) 1,1-Dicethane	3.305	63	889174	57.10	ug/L	97
28) Vinyl Acetate	3.378	86	69672	47.12	ug/L #	70
29) DIPE	3.408	45	2563161	75.87	ug/L #	73
30) 2-Chloro-1,3-Butadiene	3.414	53	1069646	59.21	ug/L	84
31) ETBE	3.878	59	1703085	59.61	ug/L	92
32) 2,2-Dichloropropane	4.055	77	568343	46.63	ug/L	96
33) cis-1,2-Dichloroethene	4.055	96	470846	50.57	ug/L	85
34) 2-Butanone	4.085	43	218256	70.25	ug/L	87
35) Propionitrile	4.164	54	280829	333.03	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8257.D

Acq On : 6 May 2015 7:00 pm

Operator : F. NAEGLER

Sample : 50 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 09:38:34 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	294245	56.37	ug/L #	65
37) Methacrylonitrile	4.408	67	130092	52.41	ug/L #	39
38) Tetrahydrofuran	4.500	42	135387	66.30	ug/L	69
39) Chloroform	4.561	83	782743	53.24	ug/L	97
40) 1,1,1-Trichloroethane	4.853	97	668098	49.53	ug/L	95
42) Cyclohexane	4.945	41	701474	62.20	ug/L	89
44) Carbontetrachloride	5.152	121	181354	45.19	ug/L	88
45) 1,1-Dichloropropene	5.158	75	584610	49.17	ug/L	100
47) Benzene	5.499	78	1794490	49.97	ug/L	83
48) 1,2-Dichloroethane	5.542	62	637172	53.13	ug/L	93
49) Iso-Butyl Alcohol	5.493	43	350305	1079.92	ug/L	89
50) TAME	5.743	73	1114853	48.29	ug/L	84
51) n-Heptane	6.005	43	803009	64.77	ug/L	80
52) 1-Butanol	6.517	56	433223	2339.80	ug/L	79
53) Trichloroethene	6.493	130	502438	51.72	ug/L	96
54) Methylcyclohexane	6.743	55	755916	56.32	ug/L #	78
55) 1,2-Dicloropropane	6.792	63	526207	54.93	ug/L	99
56) Dibromomethane	6.938	93	229766	47.66	ug/L	95
57) 1,4-Dioxane	7.005	88	49467	796.43	ug/L #	66
58) Methyl Methacrylate	7.023	69	218190	46.79	ug/L #	55
59) Bromodichloromethane	7.170	83	568534	47.40	ug/L	99
60) 2-Nitropropane	7.468	41	119593	59.72	ug/L	95
61) 2-Chloroethylvinyl Ether	7.597	63	258798	56.67	ug/L	95
62) cis-1,3-Dichloropropene	7.737	75	670538	46.83	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	474591	64.73	ug/L	89
65) Toluene	8.121	91	1954321	51.20	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	558062	44.90	ug/L	98
67) Ethyl Methacrylate	8.541	69	440728	45.25	ug/L #	47
68) 1,1,2-Trichloroethane	8.590	97	346286	48.73	ug/L	94
71) Tetrachloroethene	8.730	164	400072	51.68	ug/L	97
72) 2-Hexanone	8.895	43	317365	63.38	ug/L	88
73) 1,3-Dichloropropene	8.767	76	596500	54.35	ug/L #	76
74) Dibromochloromethane	8.999	129	429176	49.26	ug/L	97
75) N-Butyl Acetate	9.054	43	801083	63.97	ug/L	92
76) 1,2-Dibromoethane	9.096	107	337254	50.85	ug/L	99
77) 3-Chlorobenzotrifluoride	9.627	180	766787	51.38	ug/L	100
78) Chlorobenzene	9.602	112	1374127	53.75	ug/L	99
79) 4-Chlorobenzotrifluoride	9.681	180	686990	50.60	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.694	131	477793	49.83	ug/L	98
81) Ethylbenzene	9.730	106	715996	52.60	ug/L	97
82) (m+p)Xylene	9.846	106	1794578	109.12	ug/L	88
83) o-Xylene	10.206	106	869537	52.82	ug/L	97
84) Styrene	10.224	104	1535906	54.23	ug/L	94
85) Bromoform	10.376	173	240520	44.72	ug/L	97
86) 2-Chlorobenzotrifluoride	10.456	180	759265	51.82	ug/L	92
87) Isopropylbenzene	10.547	105	2275630	56.44	ug/L	99
88) Cyclohexanone	10.614	55	424581	792.53	ug/L	94
89) trans-1,4-Dichloro-2-B...	10.864	53	147666	53.76	ug/L	82
91) 1,1,2,2-Tetrachloroethane	10.815	83	429830	53.49	ug/L	97
92) Bromobenzene	10.797	156	577687	51.24	ug/L	94
93) 1,2,3-Trichloropropene	10.840	110	115926	51.90	ug/L #	86

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8257.D

Acq On : 6 May 2015 7:00 pm

Operator : F. NAEGLER

Sample : 50 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 07 09:38:34 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

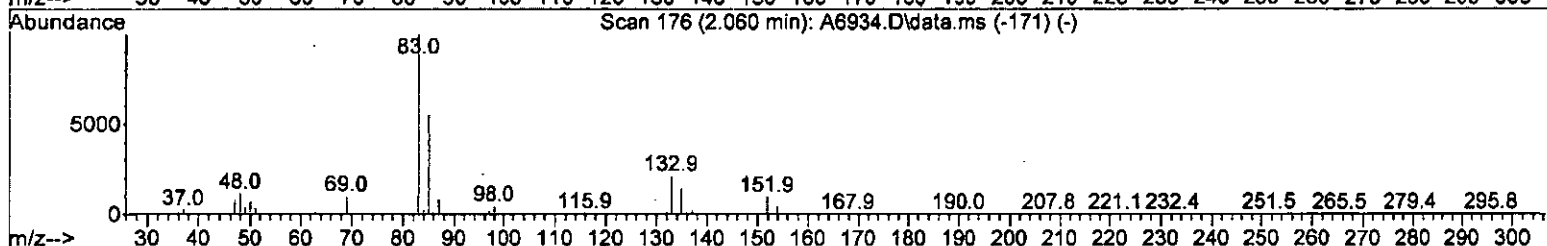
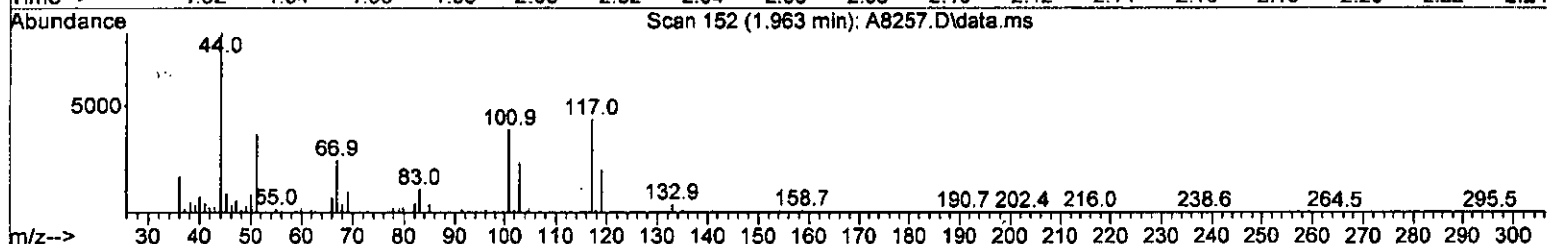
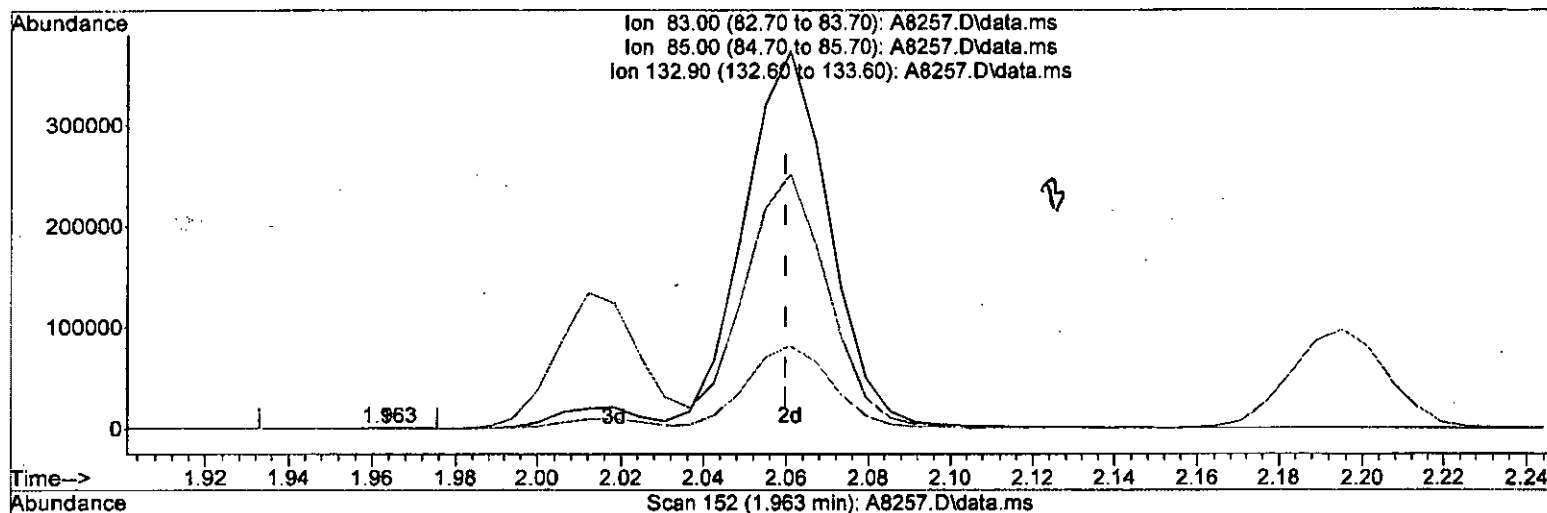
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	2642021	57.60	ug/L	99
95) 2-Chlorotoluene	10.974	91	1572421	54.11	ug/L	97
96) 3-Chlorotoluene	11.023	91	1718062	55.36	ug/L	100
97) 4-Chlorotoluene	11.065	91	1917038	55.54	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	1969003	57.17	ug/L	98
99) tert-Butylbenzene	11.340	119	1665603	55.95	ug/L	98
100) 1,2,4-Trimethylbenzene	11.376	105	1996535	56.07	ug/L	94
101) 3,4-Dichlorobenzotrifl...	11.443	214	569358	51.19	ug/L	99
102) sec-Butylbenzene	11.523	105	2338709	57.40	ug/L	98
103) p-Isopropyltoluene	11.645	119	2078708	57.99	ug/L	98
104) 1,3-Dclbenz	11.602	146	1227454	55.26	ug/L	98
105) 1,4-Dclbenz	11.681	146	1255049	54.71	ug/L	96
106) 2,4-Dichlorobenzotrifl...	11.736	214	521190	50.68	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.773	214	587231	51.56	ug/L	98
108) n-Butylbenzene	11.980	91	1830273	57.63	ug/L	98
109) 1,2-Dclbenz	11.986	146	1130157	54.63	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.614	157	73246	45.75	ug/L	90
111) Trielution Dichlorotol...	12.730	125	3221540	176.06	ug/L	97
112) 1,3,5-Trichlorobenzene	12.785	180	858028	55.52	ug/L	97
113) Coelution Dichlorotoluene	13.059	125	2303453	121.19	ug/L	94
114) 1,2,4-Tcbenzene	13.266	180	730421	56.15	ug/L	95
115) Hexachlorobt	13.406	225	291639	50.42	ug/L	97
116) Naphthalen	13.461	128	1407968	61.51	ug/L	97
117) 1,2,3-Tclbenzene	13.650	180	604167	62.30	ug/L	99
118) 2,4,5-Trichlorotoluene	14.235	159	477102	75.60	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	397177	73.76	ug/L	98

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8257.D
 Acq On : 6 May 2015 7:00 pm
 Operator : F. NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 19:16:05 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8257.D\data.ms

(11) Freon 123

1.963min (-0.096) 0.07 ug/L

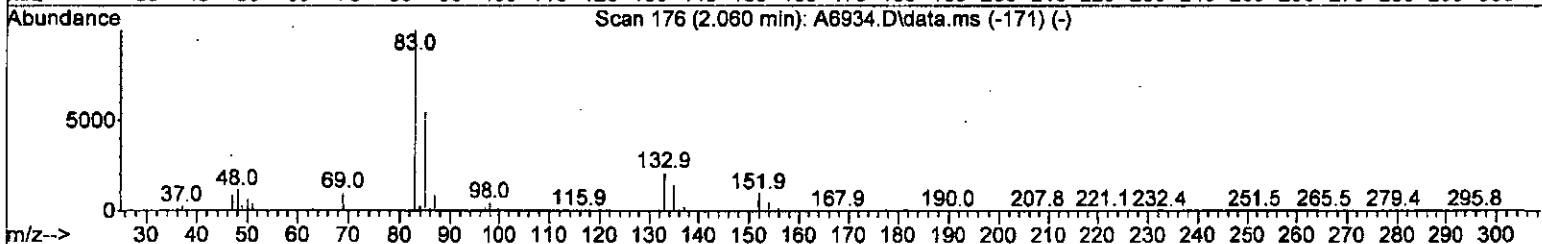
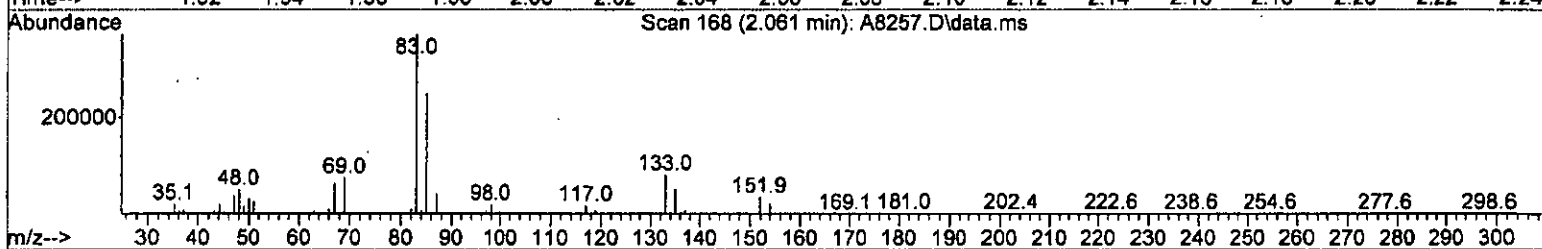
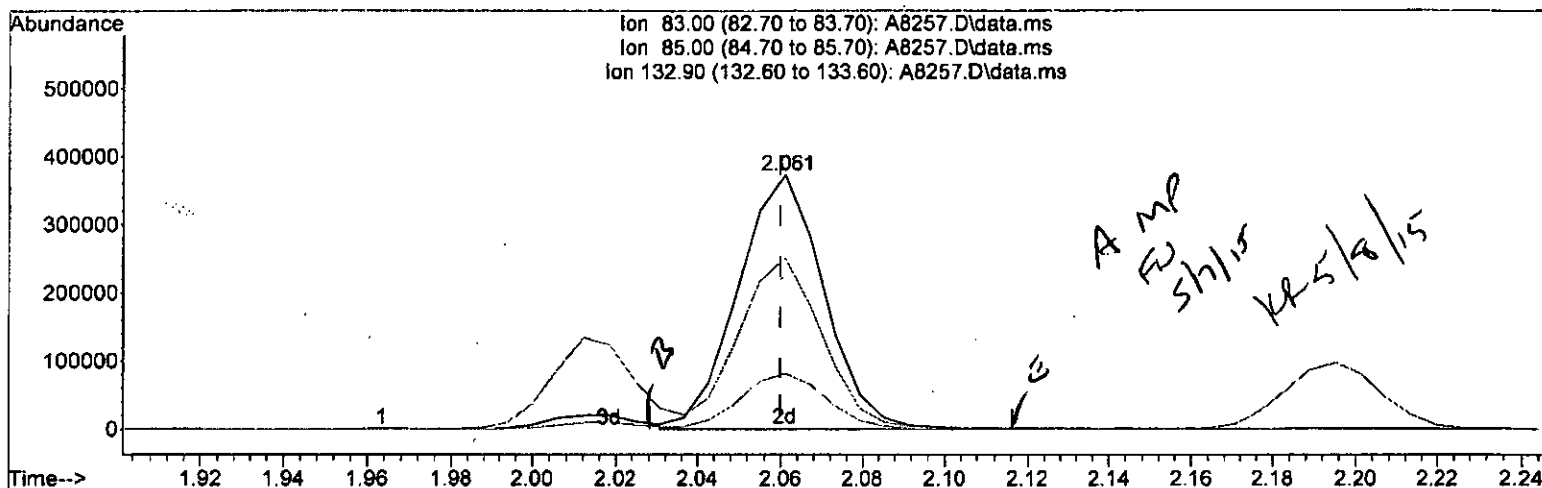
response 838

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	35.85
132.90	19.90	35.75
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8257.D
 Acq On : 6 May 2015 7:00 pm
 Operator : F. NAEGLER
 Sample : 50 PPB STD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 19:16:05 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration



TIC: A8257.D\data.ms

(11) Freon 123

2.061min (+0.001) 46.82 ug/L m

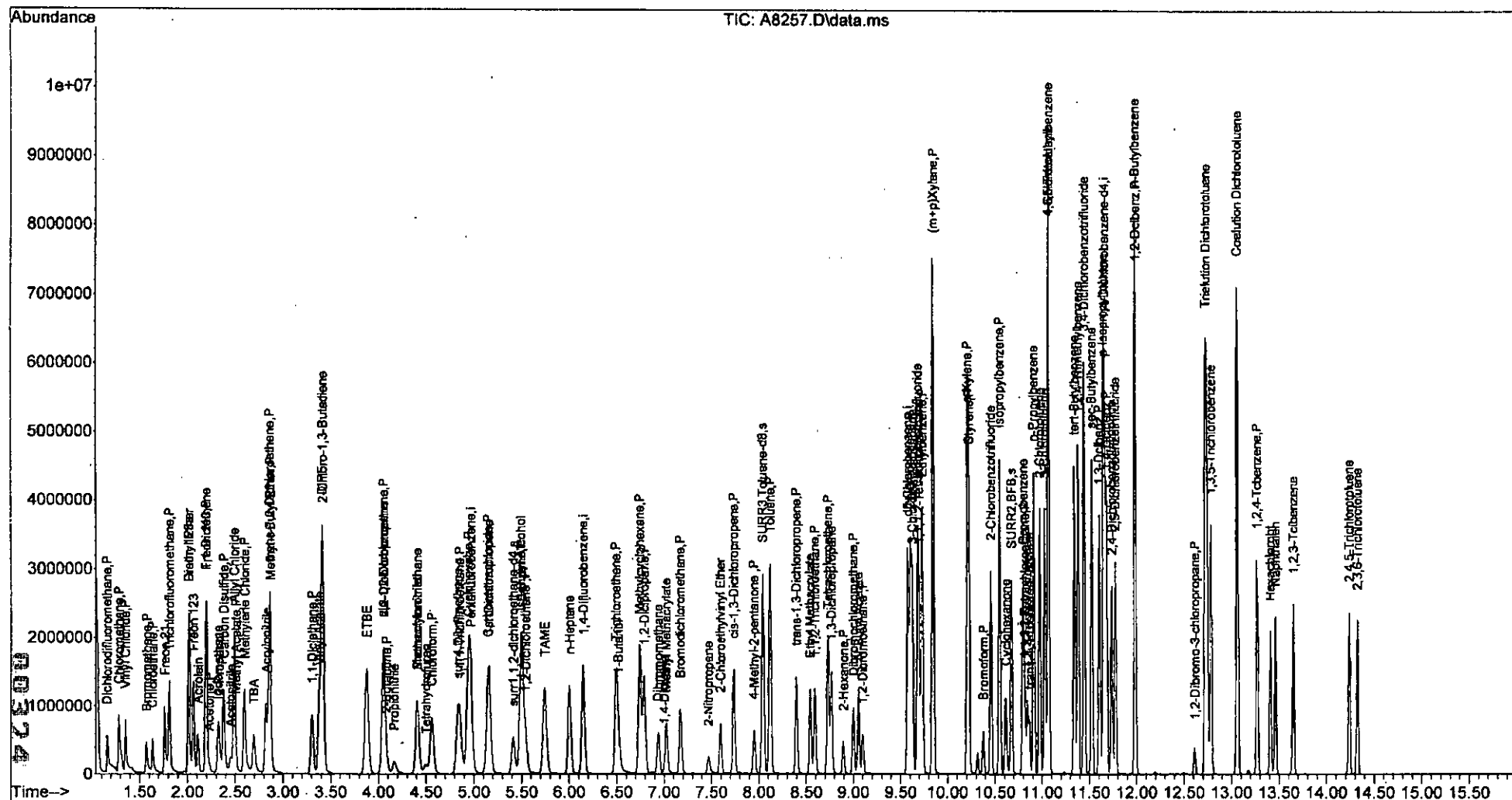
response 536236

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	67.36#
132.90	19.90	21.85
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8257.D
Acq On : 6 May 2015 7:00 pm
Operator : F. NAEGLER
Sample : 50 PPB STD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 09:38:34 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8258.D

Acq On : 6 May 2015 7:30 pm

Operator : F. NAEGLER

Sample : 100 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 19:46:09 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

FJ
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	1002892	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1529104	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1431577	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	874920	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibromomethane	4.835	113	935871	102.40	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 204.80%			
46) surr1,1,2-dichloroetha...	5.414	65	962503	101.16	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 202.32%			
64) SURR3,Toluene-d8	8.042	98	3543305	100.95	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 201.90%			
69) SURR2,BFB	10.675	95	1433466	93.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 186.22%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	1170997	122.99	ug/L	99
3) Chloromethane	1.281	50	2027080	170.01	ug/L	97
4) Vinyl Chloride	1.348	62	1446596	130.24	ug/L	98
5) Bromomethane	1.567	94	571894	149.18	ug/L	98
6) Chloroethane	1.634	64	688276	108.36	ug/L	94
7) Freon 21	1.762	67	1812854	104.68	ug/L	99
8) Trichlorofluoromethane	1.811	101	1322174	96.29	ug/L	100
9) Diethyl Ether	2.012	59	855640	118.97	ug/L #	76
10) Freon 123a	2.012	67	1075780	99.51	ug/L	94
11) Freon 123	2.061	83	1160443	97.07	ug/L	78
12) Acrolein	2.110	56	798990	762.68	ug/L	100
13) 1,1-Dicethene	2.195	96	760929	99.15	ug/L #	81
14) Freon 113	2.195	101	785504	93.11	ug/L	93
15) Acetone	2.226	43	299935	126.82	ug/L	97
16) 2-Propanol	2.329	45	1218176	2811.67	ug/L	96
17) Iodomethane	2.317	142	1151858	223.46	ug/L	98
18) Carbon Disulfide	2.378	76	2616485	93.01	ug/L	99
19) Acetonitrile	2.451	40	241016	733.19	ug/L	92
20) Allyl Chloride	2.488	76	515430	113.39	ug/L #	1
21) Methyl Acetate	2.506	43	760945	143.88	ug/L	85
22) Methylene Chloride	2.598	84	878575	103.07	ug/L #	64
23) TBA	2.695	59	1510682	2306.99	ug/L	75
24) Acrylonitrile	2.823	53	1755457	722.95	ug/L	100
25) Methyl-t-Butyl Ether	2.866	73	2211995	97.86	ug/L	87
26) trans-1,2-Dichloroethene	2.860	96	858528	98.39	ug/L #	79
27) 1,1-Dicethane	3.305	63	1947500	119.82	ug/L	97
28) Vinyl Acetate	3.378	86	157131	101.81	ug/L #	69
29) DIPE	3.408	45	5384516	152.70	ug/L #	74
30) 2-Chloro-1,3-Butadiene	3.414	53	2243556	118.97	ug/L	87
31) ETBE	3.878	59	3678280	123.34	ug/L	92
32) 2,2-Dichloropropane	4.049	77	1276309	100.33	ug/L	98
33) cis-1,2-Dichloroethene	4.055	96	1044452	107.47	ug/L	88
34) 2-Butanone	4.091	43	470311	145.04	ug/L	87
35) Propionitrile	4.170	54	639758	726.87	ug/L	95

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8258.D

Acq On : 6 May 2015 7:30 pm

Operator : F. NAEGLER

Sample : 100 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 19:46:09 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	624266	114.59	ug/L #	66
37) Methacrylonitrile	4.408	67	288180	111.23	ug/L #	30
38) Tetrahydrofuran	4.500	42	307744	144.39	ug/L	74
39) Chloroform	4.561	83	1706919	111.22	ug/L	95
40) 1,1,1-Trichloroethane	4.853	97	1502035	106.68	ug/L	96
42) Cyclohexane	4.945	41	1541295	131.80	ug/L	90
44) Carbontetrachloride	5.152	121	411607	98.92	ug/L	87
45) 1,1-Dichloropropene	5.158	75	1291649	104.76	ug/L	98
47) Benzene	5.499	78	3974497	106.74	ug/L	83
48) 1,2-Dichloroethane	5.542	62	1382701	111.19	ug/L	92
49) Iso-Butyl Alcohol	5.493	43	896275	2664.59	ug/L	91
50) TAME	5.743	73	2417372	100.98	ug/L	83
51) n-Heptane	6.005	43	1779583	138.42	ug/L	80
52) 1-Butanol	6.518	56	1108884	5775.61	ug/L	85
53) Trichloroethene	6.499	130	1105475	109.74	ug/L	94
54) Methylcyclohexane	6.749	55	1705691	122.56	ug/L #	78
55) 1,2-Dichloropropane	6.792	63	1166706	117.46	ug/L	98
56) Dibromomethane	6.938	93	504545	100.93	ug/L	96
57) 1,4-Dioxane	6.999	88	125411	1947.20	ug/L #	66
58) Methyl Methacrylate	7.024	69	492604	101.88	ug/L #	53
59) Bromodichloromethane	7.176	83	1275926	102.58	ug/L	99
60) 2-Nitropropane	7.469	41	301188	145.04	ug/L	99
61) 2-Chloroethylvinyl Ether	7.597	63	565027	119.32	ug/L	92
62) cis-1,3-Dichloropropene	7.737	75	1505505	101.39	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	1051453	138.30	ug/L	89
65) Toluene	8.121	91	4325845	109.29	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	1293549	100.37	ug/L	99
67) Ethyl Methacrylate	8.542	69	1043549	103.32	ug/L #	51
68) 1,1,2-Trichloroethane	8.590	97	765806	103.92	ug/L	95
71) Tetrachloroethene	8.731	164	883803	111.29	ug/L	97
72) 2-Hexanone	8.895	43	723072	140.78	ug/L	88
73) 1,3-Dichloropropane	8.767	76	1334784	118.57	ug/L #	79
74) Dibromochloromethane	8.999	129	980972	109.77	ug/L	98
75) N-Butyl Acetate	9.054	43	1917720	149.30	ug/L	90
76) 1,2-Dibromoethane	9.096	107	763441	112.22	ug/L	97
77) 3-Chlorobenzotrifluoride	9.627	180	1632800	106.66	ug/L	99
78) Chlorobenzene	9.608	112	3021316	115.21	ug/L	99
79) 4-Chlorobenzotrifluoride	9.682	180	1470865	105.63	ug/L	95
80) 1,1,1,2-Tetrachloroethane	9.694	131	1098891	111.72	ug/L	98
81) Ethylbenzene	9.730	106	1602347	114.77	ug/L	91
82) (m+p)Xylene	9.846	106	3953656	234.38	ug/L	94
83) o-Xylene	10.206	106	1909357	113.07	ug/L	97
84) Styrene	10.224	104	3440328	118.43	ug/L	95
85) Bromoform	10.377	173	566565	102.69	ug/L	99
86) 2-Chlorobenzotrifluoride	10.456	180	1583710	105.38	ug/L	90
87) Isopropylbenzene	10.547	105	4877256	117.94	ug/L	99
88) Cyclohexanone	10.614	55	1078478	1962.63	ug/L	90
89) trans-1,4-Dichloro-2-B...	10.864	53	348904	123.85	ug/L	85
91) 1,1,2,2-Tetrachloroethane	10.815	83	960045	112.77	ug/L	100
92) Bromobenzene	10.797	156	1278255	107.01	ug/L	96
93) 1,2,3-Trichloropropane	10.840	110	258000	109.02	ug/L	90

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8258.D

Acq On : 6 May 2015 7:30 pm

Operator : F. NAEGLER

Sample : 100 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 06 19:46:09 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

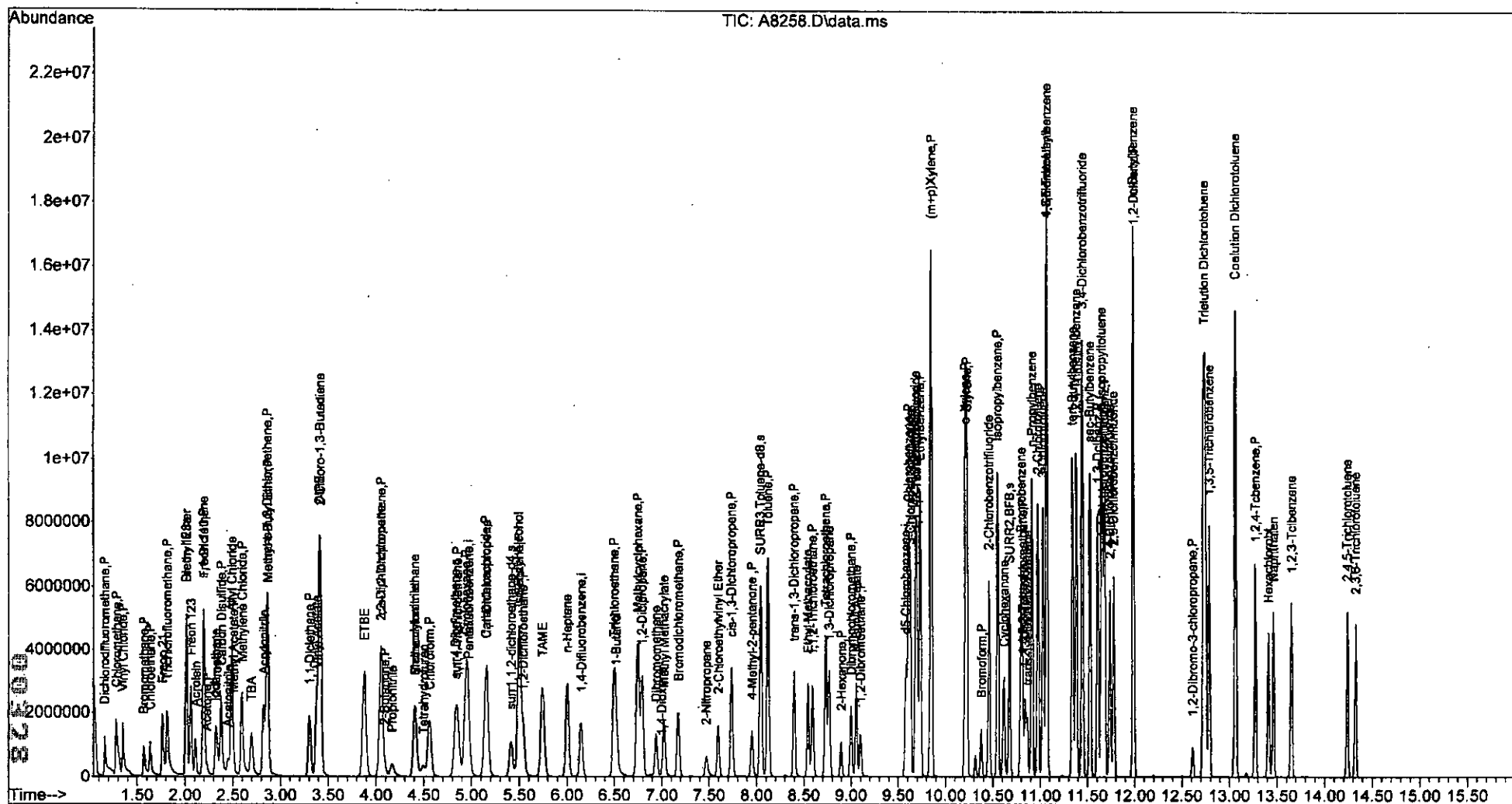
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.913	91	5599590	115.23	ug/L	96
95) 2-Chlorotoluene	10.974	91	3464812	112.54	ug/L	96
96) 3-Chlorotoluene	11.029	91	3557754	108.20	ug/L	98
97) 4-Chlorotoluene	11.065	91	4188130	114.52	ug/L	97
98) 1,3,5-Trimethylbenzene	11.065	105	4327793	118.61	ug/L	96
99) tert-Butylbenzene	11.340	119	3682876	116.76	ug/L	96
100) 1,2,4-Trimethylbenzene	11.376	105	4345017	115.16	ug/L	93
101) 3,4-Dichlorobenzotrifl...	11.443	214	1215644	103.16	ug/L	99
102) sec-Butylbenzene	11.523	105	5068885	117.42	ug/L	97
103) p-Isopropyltoluene	11.645	119	4566663	120.23	ug/L	98
104) 1,3-Dclbenz	11.608	146	2703057	114.87	ug/L	96
105) 1,4-Dclbenz	11.681	146	2802374	115.31	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.736	214	1102461	101.19	ug/L	94
107) 2,5-Dichlorobenzotrifl...	11.773	214	1260535	104.45	ug/L	99
108) n-Butylbenzene	11.980	91	4027174	119.69	ug/L	97
109) 1,2-Dclbenz	11.986	146	2515648	114.78	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.608	157	176229	103.89	ug/L	96
111) Trielution Dichlorotol...	12.730	125	6697083	345.45	ug/L	97
112) 1,3,5-Trichlorobenzene	12.785	180	1796515	109.72	ug/L	97
113) Coelution Dichlorotoluene	13.059	125	4727247	234.75	ug/L	97
114) 1,2,4-Tcbenzene	13.272	180	1616454	117.29	ug/L	99
115) Hexachlorobt	13.406	225	639148	104.30	ug/L	96
116) Naphthalen	13.461	128	3186215	131.37	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	1353828	131.76	ug/L	98
118) 2,4,5-Trichlorotoluene	14.236	159	1031149	154.21	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	874896	153.36	ug/L	98

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

```
Data Path : I:\ACQUDATA\msvoa10\data\050615\  
Data File : A8258.D  
Acq On    : 6 May 2015    7:30 pm  
Operator  : F. NAEGLER  
Sample    : 100 PPB STD  
Misc      :  
ALS Vial  : 9    Sample Multiplier: 1
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Inst : MSVOA10

Quant Time: May 06 19:46:09 2015
Quant Method : I:\ACQDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration.



Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8259.D
 Acq On : 6 May 2015 8:01 pm
 Operator : F. NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 20:16:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

FW
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	1009160	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1527917	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1452484	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	904711	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4, Dibromomethane	4.835	113	1200111	131.41	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 262.82%			
46) surr1, 1,2-dichloroetha...	5.414	65	1231936	129.58	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 259.16%			
64) SURR3, Toluene-d8	8.048	98	4576583	130.50	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 261.00%			
69) SURR2, BFB	10.675	95	1855663	120.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 241.24%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	1786447	186.46	ug/L	98
3) Chloromethane	1.281	50	3177944	264.87	ug/L	99
4) Vinyl Chloride	1.348	62	2252705	201.56	ug/L	98
5) Bromomethane	1.567	94	908503	235.52	ug/L	97
6) Chloroethane	1.634	64	1084321	169.64	ug/L	94
7) Freon 21	1.762	67	2925102	167.86	ug/L	99
8) Trichlorofluoromethane	1.811	101	2034067	147.22	ug/L	99
9) Diethyl Ether	2.012	59	1315009	181.71	ug/L #	78
10) Freon 123a	2.012	67	1719301	158.05	ug/L	94
11) Freon 123	2.061	83	1895604	157.58	ug/L	81
12) Acrolein	2.104	56	1279238	1213.52	ug/L	97
13) 1,1-Dicethene	2.195	96	1203928	155.90	ug/L #	83
14) Freon 113	2.195	101	1226763	144.51	ug/L	95
15) Acetone	2.226	43	468691	196.94	ug/L	99
16) 2-Propanol	2.329	45	1858429	4262.79	ug/L	99
17) Iodomethane	2.317	142	1831214	353.05	ug/L	100
18) Carbon Disulfide	2.378	76	4325552	152.81	ug/L	100
19) Acetonitrile	2.451	40	374528	1132.26	ug/L	91
20) Allyl Chloride	2.488	76	753727	164.79	ug/L #	8
21) Methyl Acetate	2.500	43	1176117	221.00	ug/L	84
22) Methylene Chloride	2.597	84	1363973	159.02	ug/L #	65
23) TBA	2.695	59	2293599	3480.84	ug/L	79
24) Acrylonitrile	2.823	53	2624337	1074.07	ug/L	100
25) Methyl-t-Butyl Ether	2.866	73	3362430	147.84	ug/L	86
26) trans-1,2-Dichloroethene	2.860	96	1306606	148.81	ug/L #	83
27) 1,1-Dicethane	3.305	63	2820338	172.44	ug/L	97
28) Vinyl Acetate	3.372	86	237793	153.11	ug/L #	60
29) DIPE	3.408	45	8215307	231.53	ug/L #	76
30) 2-Chloro-1,3-Butadiene	3.414	53	3589769	189.18	ug/L	85
31) ETBE	3.878	59	5804457	193.42	ug/L	92
32) 2,2-Dichloropropane	4.055	77	1968821	153.81	ug/L	98
33) cis-1,2-Dichloroethene	4.055	96	1584403	162.01	ug/L #	84
34) 2-Butanone	4.085	43	725587	222.37	ug/L	88
35) Propionitrile	4.164	54	960863	1084.92	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8259.D

Acq On : 6 May 2015 8:01 pm

Operator : F. NAEGLER

Sample : 150 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 06 20:16:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
36) Bromochloromethane	4.414	130	936903	170.90	ug/L #	68
37) Methacrylonitrile	4.408	67	439761	168.69	ug/L #	36
38) Tetrahydrofuran	4.493	42	454854	212.08	ug/L	78
39) Chloroform	4.561	83	2619580	169.63	ug/L	96
40) 1,1,1-Trichloroethane	4.853	97	2323370	163.99	ug/L	96
42) Cyclohexane	4.951	41	2444273	209.18	ug/L	89
44) Carbontetrachloride	5.152	121	644486	155.00	ug/L	89
45) 1,1-Dichloropropene	5.158	75	1996064	162.01	ug/L	97
47) Benzene	5.505	78	6084111	163.52	ug/L	82
48) 1,2-Dichloroethane	5.542	62	2074189	166.93	ug/L	92
49) Iso-Butyl Alcohol	5.493	43	1389052	4132.81	ug/L	91
50) TAME	5.743	73	3838891	160.49	ug/L	83
51) n-Heptane	6.005	43	2662886	207.29	ug/L	80
52) 1-Butanol	6.524	56	1763443	9192.02	ug/L	81
53) Trichloroethene	6.499	130	1697630	168.66	ug/L	96
54) Methylcyclohexane	6.749	55	2689190	193.37	ug/L #	80
55) 1,2-Dichloropropane	6.792	63	1792178	180.56	ug/L	95
56) Dibromomethane	6.938	93	769454	154.05	ug/L	96
57) 1,4-Dioxane	7.005	88	183384	2849.53	ug/L #	55
58) Methyl Methacrylate	7.023	69	758886	157.07	ug/L #	53
59) Bromodichloromethane	7.176	83	1976932	159.06	ug/L	99
60) 2-Nitropropane	7.468	41	486615	234.52	ug/L	96
61) 2-Chloroethylvinyl Ether	7.596	63	907094	191.70	ug/L	90
62) cis-1,3-Dichloropropene	7.737	75	2345878	158.11	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	1656330	218.04	ug/L	89
65) Toluene	8.121	91	6525197	164.99	ug/L	96
66) trans-1,3-Dichloropropene	8.395	75	2001751	155.45	ug/L	97
67) Ethyl Methacrylate	8.548	69	1594019	157.95	ug/L #	60
68) 1,1,2-Trichloroethane	8.590	97	1175655	159.67	ug/L	97
71) Tetrachloroethene	8.730	164	1387175	172.17	ug/L	98
72) 2-Hexanone	8.895	43	1129957	216.83	ug/L	91
73) 1,3-Dichloropropane	8.767	76	2033498	178.04	ug/L #	76
74) Dibromochloromethane	8.999	129	1534485	169.23	ug/L	99
75) N-Butyl Acetate	9.054	43	3007270	230.75	ug/L	92
76) 1,2-Dibromoethane	9.102	107	1153793	167.15	ug/L	99
77) 3-Chlorobenzotrifluoride	9.627	180	2596354	167.15	ug/L	98
78) Chlorobenzene	9.608	112	4553857	171.15	ug/L	99
79) 4-Chlorobenzotrifluoride	9.681	180	2333461	165.16	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.694	131	1726404	173.00	ug/L	98
81) Ethylbenzene	9.730	106	2502884	176.69	ug/L #	73
82) (m+p)Xylene	9.846	106	5892085	344.26	ug/L #	77
83) o-Xylene	10.212	106	2972551	173.50	ug/L #	85
84) Styrene	10.224	104	5153574	174.86	ug/L	98
85) Bromoform	10.376	173	886332	158.34	ug/L	97
86) 2-Chlorobenzotrifluoride	10.462	180	2555808	167.62	ug/L	94
87) Isopropylbenzene	10.553	105	7136921	170.10	ug/L	92
88) Cyclohexanone	10.614	55	1668152	2992.03	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.864	53	531795	186.05	ug/L	85
91) 1,1,2,2-Tetrachloroethane	10.815	83	1485028	168.70	ug/L	98
92) Bromobenzene	10.797	156	2005806	162.39	ug/L	96
93) 1,2,3-Trichloropropane	10.840	110	401794	164.18	ug/L	90

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8259.D
 Acq On : 6 May 2015 8:01 pm
 Operator : F. NAEGLER
 Sample : 150 PPB STD
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 20:16:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.913	91	7825633	155.73	ug/L	84
95) 2-Chlorotoluene	10.974	91	5317486	167.03	ug/L	95
96) 3-Chlorotoluene	11.029	91	5426001	159.59	ug/L	93
97) 4-Chlorotoluene	11.071	91	6230297	164.76	ug/L	89
98) 1,3,5-Trimethylbenzene	11.065	105	6334976	167.90	ug/L	90
99) tert-Butylbenzene	11.340	119	5538374	169.80	ug/L	95
100) 1,2,4-Trimethylbenzene	11.382	105	6375653	163.42	ug/L	84
101) 3,4-Dichlorobenzotrifl...	11.443	214	1915898	157.23	ug/L	97
102) sec-Butylbenzene	11.529	105	7202068	161.35	ug/L	88
103) p-Isopropyltoluene	11.651	119	6574195	167.39	ug/L	92
104) 1,3-Dclbenz	11.608	146	4102427	168.60	ug/L	97
105) 1,4-Dclbenz	11.681	146	4245235	168.93	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.736	214	1756003	155.86	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.779	214	1992349	159.66	ug/L	99
108) n-Butylbenzene	11.986	91	5818201	167.23	ug/L	90
109) 1,2-Dclbenz	11.986	146	3792536	167.34	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.608	157	270880	154.43	ug/L	98
111) Trielution Dichlorotol...	12.736	125	9886849	493.19	ug/L	91
112) 1,3,5-Trichlorobenzene	12.785	180	2782118	164.31	ug/L	95
113) Coelution Dichlorotoluene	13.059	125	6779952	325.60	ug/L	95
114) 1,2,4-Tcbenzene	13.272	180	2413038	169.33	ug/L	98
115) Hexachlorobt	13.406	225	974219	153.74	ug/L	97
116) Naphthalen	13.461	128	4661764	185.88	ug/L	99
117) 1,2,3-Tclbenzene	13.650	180	1987933	187.10	ug/L	98
118) 2,4,5-Trichlorotoluene	14.235	159	1590318	230.01	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	1351709	229.13	ug/L	97

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8259.D

Acq On : 6 May 2015 8:01 pm

Operator : F. NAËGLER

Sample : 150 PPB STD

Misc :

ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA10

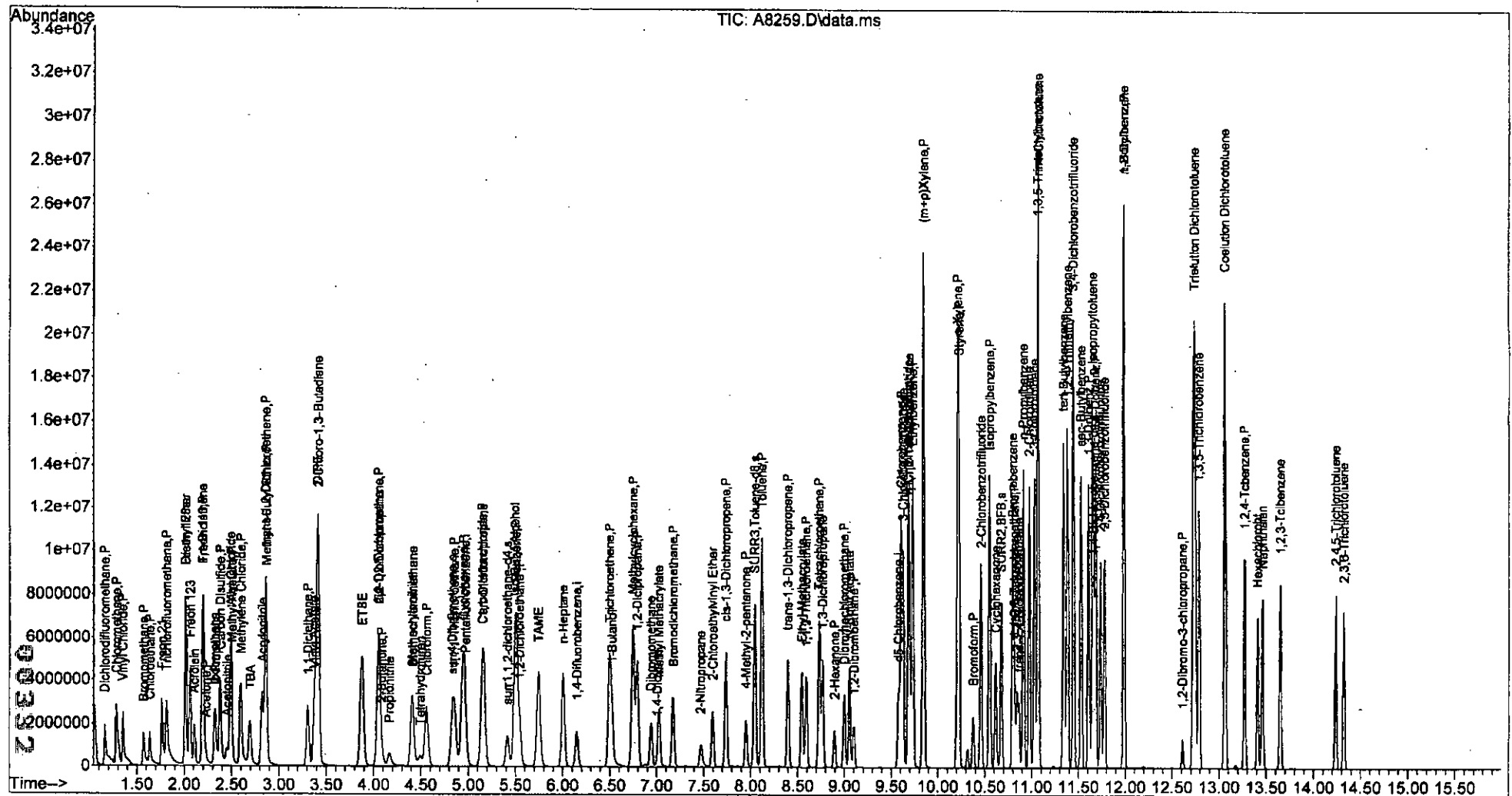
Quant Time: May 06 20:16:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8260.D
 Acq On : 6 May 2015 8:31 pm
 Operator : F. NAEGLER
 Sample : 200 PPB STD
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 20:46:17 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Wed May 06 16:24:30 2015
 Response via : Initial Calibration

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5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	1033793	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1542023	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1477018	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	925250	50.00	ug/L	0.00

System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	1571889	170.55	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	341.10%#
46) surr1,1,2-dichloroetha...	5.414	65	1588711	165.57	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	331.14%#
64) SURR3,Toluene-d8	8.048	98	5905134	166.84	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	333.68%#
69) SURR2,BFB	10.675	95	2441626	157.26	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	314.52%#

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.159	85	2596947	264.60	ug/L	98
3) Chloromethane	1.281	50	4627354	376.48	ug/L	100
4) Vinyl Chloride	1.348	62	3251701	284.01	ug/L	98
5) Bromomethane	1.567	94	1292698	327.13	ug/L	98
6) Chloroethane	1.634	64	1542802	235.62	ug/L	94
7) Freon 21	1.762	67	4209980	235.84	ug/L	99
8) Trichlorofluoromethane	1.811	101	2936528	207.47	ug/L	99
9) Diethyl Ether	2.012	59	1853169	249.98	ug/L #	78
10) Freon 123a	2.012	67	2219760	199.20	ug/L	94
11) Freon 123	2.061	83	2784810	225.98	ug/L #	77
12) Acrolein	2.104	56	1818228	1683.72	ug/L	95
13) 1,1-Dicethene	2.195	96	1764152	223.00	ug/L #	85
14) Freon 113	2.195	101	1784586	205.20	ug/L	92
15) Acetone	2.226	43	584919	239.92	ug/L	97
16) 2-Propanol	2.329	45	2576209	5768.40	ug/L	98
17) Iodomethane	2.317	142	2554924	480.84	ug/L	99
18) Carbon Disulfide	2.378	76	6208488	214.11	ug/L	99
19) Acetonitrile	2.451	40	568166	1676.73	ug/L	94
20) Allyl Chloride	2.488	76	1094618	233.61	ug/L #	21
21) Methyl Acetate	2.500	43	1659296	304.36	ug/L	85
22) Methylene Chloride	2.597	84	1970916	224.31	ug/L #	66
23) TBA	2.695	59	3219499	4769.60	ug/L	78
24) Acrylonitrile	2.823	53	3758849	1501.74	ug/L	99
25) Methyl-t-Butyl Ether	2.866	73	4760497	204.32	ug/L	86
26) trans-1,2-Dichloroethene	2.860	96	1885887	209.66	ug/L #	83
27) 1,1-Dicethane	3.305	63	4130034	246.51	ug/L	99
28) Vinyl Acetate	3.378	86	357008	224.39	ug/L #	73
29) DIPE	3.408	45	10934164	300.82	ug/L	81
30) 2-Chloro-1,3-Butadiene	3.414	53	5246957	269.93	ug/L	87
31) ETBE	3.878	59	8005245	260.40	ug/L	93
32) 2,2-Dichloropropane	4.054	77	2838469	216.47	ug/L	98
33) cis-1,2-Dichloroethene	4.054	96	2293409	228.92	ug/L	85
34) 2-Butanone	4.091	43	1062625	317.91	ug/L	86
35) Propionitrile	4.170	54	1367306	1507.05	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8260.D

Acq On : 6 May 2015 8:31 pm

Operator : F. NAEGLER

Sample : 200 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 20:46:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.414	130	1310607	233.38	ug/L #	70
37) Methacrylonitrile	4.408	67	634006	237.40	ug/L #	38
38) Tetrahydrofuran	4.493	42	657862	299.43	ug/L	75
39) Chloroform	4.560	83	3782646	239.11	ug/L	97
40) 1,1,1-Trichloroethane	4.853	97	3403699	234.52	ug/L	96
42) Cyclohexane	4.951	41	3573785	303.05	ug/L	90
44) Carbontetrachloride	5.152	121	961734	229.19	ug/L	86
45) 1,1-Dichloropropene	5.164	75	2893587	232.71	ug/L	97
47) Benzene	5.505	78	8648567	230.32	ug/L	81
48) 1,2-Dichloroethane	5.542	62	2963151	236.29	ug/L	91
49) Iso-Butyl Alcohol	5.499	43	1994224	5879.09	ug/L	88
50) TAME	5.743	73	5334020	220.96	ug/L	84
51) n-Heptane	6.005	43	3905893	301.27	ug/L	81
52) 1-Butanol	6.523	56	2475910	12787.72	ug/L	83
53) Trichloroethene	6.499	130	2482834	244.41	ug/L	96
54) Methylcyclohexane	6.749	55	3962911	282.36	ug/L #	80
55) 1,2-Dicloropropane	6.792	63	2617447	261.30	ug/L	97
56) Dibromomethane	6.938	93	1116881	221.56	ug/L	99
57) 1,4-Dioxane	7.011	88	256383	3947.39	ug/L #	63
58) Methyl Methacrylate	7.023	69	1088663	223.26	ug/L #	54
59) Bromodichloromethane	7.176	83	2858117	227.85	ug/L	98
60) 2-Nitropropane	7.468	41	749376	357.86	ug/L	100
61) 2-Chloroethylvinyl Ether	7.596	63	1310497	274.42	ug/L	92
62) cis-1,3-Dichloropropene	7.737	75	3394969	226.73	ug/L	93
63) 4-Methyl-2-pentanone	7.950	43	2388412	311.53	ug/L	90
65) Toluene	8.121	91	8904581	223.09	ug/L	89
66) trans-1,3-Dichloropropene	8.401	75	2885060	221.99	ug/L	96
67) Ethyl Methacrylate	8.547	69	2309087	226.71	ug/L #	58
68) 1,1,2-Trichloroethane	8.596	97	1683294	226.52	ug/L	98
71) Tetrachloroethene	8.730	164	2039787	248.96	ug/L	97
72) 2-Hexanone	8.895	43	1639634	309.41	ug/L	88
73) 1,3-Dichloropropane	8.767	76	2908209	250.39	ug/L #	76
74) Dibromochloromethane	8.999	129	2236706	242.58	ug/L	100
75) N-Butyl Acetate	9.053	43	4231966	319.33	ug/L	93
76) 1,2-Dibromoethane	9.102	107	1686139	240.22	ug/L	98
77) 3-Chlorobenzotrifluoride	9.633	180	4008818	253.80	ug/L	99
78) Chlorobenzene	9.608	112	6357429	234.97	ug/L	93
79) 4-Chlorobenzotrifluoride	9.687	180	3639222	253.31	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.700	131	2575426	253.79	ug/L	97
81) Ethylbenzene	9.730	106	3673340	255.01	ug/L #	54
82) (m+p)Xylene	9.852	106	8010966	460.28	ug/L #	68
83) o-Xylene	10.212	106	4332661	248.68	ug/L #	70
84) Styrene	10.224	104	7068638	235.85	ug/L	88
85) Bromoform	10.376	173	1341885	235.74	ug/L	97
86) 2-Chlorobenzotrifluoride	10.462	180	3954917	255.07	ug/L	91
87) Isopropylbenzene	10.553	105	9150508	214.47	ug/L	76
88) Cyclohexanone	10.614	55	2359487	4161.72	ug/L	92
89) trans-1,4-Dichloro-2-B...	10.864	53	789739	271.71	ug/L	83
91) 1,1,2,2-Tetrachloroethane	10.815	83	2162848	240.24	ug/L	98
92) Bromobenzene	10.797	156	2946914	233.29	ug/L	96
93) 1,2,3-Trichloropropane	10.846	110	579925	231.71	ug/L	89

Data Path : I:\ACQUDATA\msvoa10\data\050615\

Data File : A8260.D

Acq On : 6 May 2015 8:31 pm

Operator : F. NAEGLER

Sample : 200 PPB STD

Inst : MSVOA10

Misc :

ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 06 20:46:17 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Wed May 06 16:24:30 2015

Response via : Initial Calibration

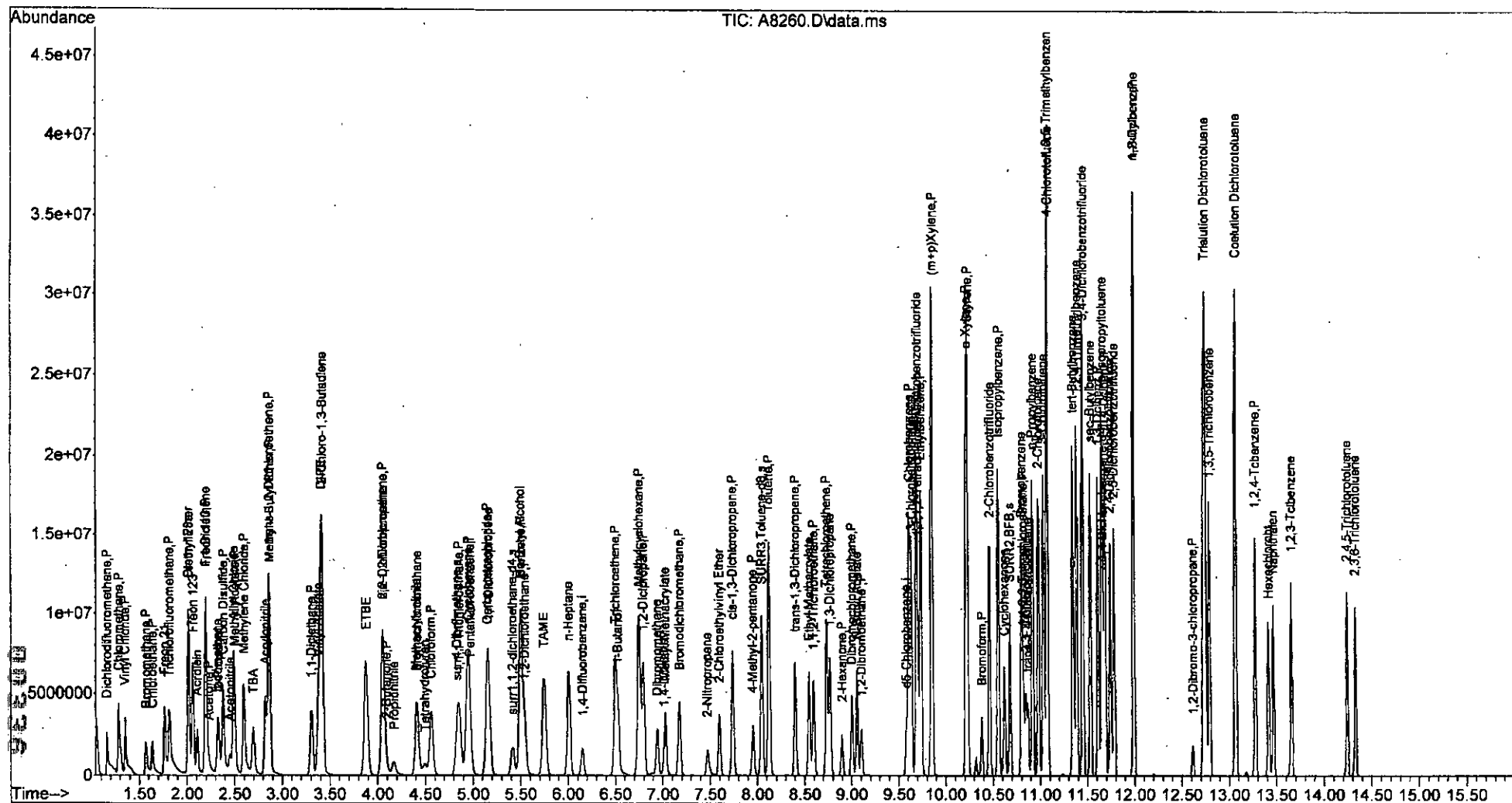
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.913	91	9760167	189.92	ug/L	68
95) 2-Chlorotoluene	10.974	91	7213444	221.56	ug/L	89
96) 3-Chlorotoluene	11.029	91	7526097	216.44	ug/L	85
97) 4-Chlorotoluene	11.071	91	8126856	210.14	ug/L	75
98) 1,3,5-Trimethylbenzene	11.065	105	8223670	213.12	ug/L	79
99) tert-Butylbenzene	11.340	119	7448863	223.31	ug/L	88
100) 1,2,4-Trimethylbenzene	11.382	105	8274806	207.39	ug/L #	67
101) 3,4-Dichlorobenzotrifl...	11.449	214	2929721	235.10	ug/L	99
102) sec-Butylbenzene	11.529	105	9110126	199.56	ug/L	74
103) p-Isopropyltoluene	11.650	119	8301847	206.69	ug/L	76
104) 1,3-Dclbenz	11.608	146	5759223	231.43	ug/L	91
105) 1,4-Dclbenz	11.681	146	5843694	227.37	ug/L	93
106) 2,4-Dichlorobenzotrifl...	11.736	214	2776970	241.01	ug/L	94
107) 2,5-Dichlorobenzotrifl...	11.779	214	2988447	234.17	ug/L	98
108) n-Butylbenzene	11.986	91	7611408	213.91	ug/L	76
109) 1,2-Dclbenz	11.986	146	5262942	227.07	ug/L	93
110) 1,2-Dibromo-3-chloropr...	12.614	157	395697	220.58	ug/L	93
111) Trielution Dichlorotol...	12.736	125	13131542	640.51	ug/L	79
112) 1,3,5-Trichlorobenzene	12.791	180	4139981	239.08	ug/L	97
113) Coelution Dichlorotoluene	13.065	125	8835280	414.88	ug/L	81
114) 1,2,4-Tcbenzene	13.272	180	3424887	235.00	ug/L	98
115) Hexachlorobt	13.412	225	1441514	222.44	ug/L	98
116) Naphthalen	13.461	128	6236815	243.16	ug/L	97
117) 1,2,3-Tclbenzene	13.650	180	2830687	260.51	ug/L	98
118) 2,4,5-Trichlorotoluene	14.235	159	2355291	333.09	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	1999677	331.45	ug/L	98

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
Data File : A8260.D
Acq On : 6 May 2015 8:31 pm
Operator : F. NAEGLER
Sample : 200 PPB STD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 06 20:46:17 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Wed May 06 16:24:30 2015
Response via : Initial Calibration



Initial Calibration Verification Summary Report

Calibration ID: RC1500051

5/6/15

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	RC1500051-10	T	Average RF	50	48.38	ppm	-3.2	<=30
1,1,1-Trichloroethane (TCA)	RC1500051-10	T	Average RF	50	47.05	ppm	-5.9	<=30
1,1,2,2-Tetrachloroethane	RC1500051-10	T	Average RF	50	50.19	ppm	0.4	<=30
1,1,2-Trichloroethane	RC1500051-10	T	Average RF	50	47.31	ppm	-5.4	<=30
1,1,2-Trichlorotrifluoroethane	RC1500051-10	T	Average RF	50	45.15	ppm	-9.7	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500051-10	T	Average RF	50	47.43	ppm	-5.1	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500051-10	T	Average RF	50	44.09	ppm	-11.8	<=30
1,1-Dichloropropene	RC1500051-10	T	Average RF	50	45.00	ppm	-10.0	<=30
1,2,3-Trichlorobenzene	RC1500051-10	T	Average RF	50	50.33	ppm	0.7	<=30
1,2,3-Trichloropropane	RC1500051-10	T	Average RF	50	47.51	ppm	-5.0	<=30
1,2,4-Trichlorobenzene	RC1500051-10	T	Average RF	50	50.90	ppm	1.8	<=30
1,2,4-Trimethylbenzene	RC1500051-10	T	Average RF	50	51.06	ppm	2.1	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500051-10	T	Average RF	50	52.03	ppm	4.1	<=30
1,2-Dibromoethane	RC1500051-10	T	Average RF	50	49.54	ppm	-0.9	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123)	RC1500051-10	T	Average RF	50	57.99	ppm	16.0	<=30
1,2-Dichlorobenzene	RC1500051-10	T	Average RF	50	48.99	ppm	-2.0	<=30
1,2-Dichloroethane	RC1500051-10	T	Average RF	50	48.06	ppm	-3.9	<=30
1,2-Dichloropropane	RC1500051-10	T	Average RF	50	46.99	ppm	-6.0	<=30
1,3,5-Trichlorobenzene	RC1500051-10	T	Average RF	50	51.51	ppm	3.0	<=30
1,3,5-Trimethylbenzene	RC1500051-10	T	Average RF	50	51.57	ppm	3.1	<=30
1,3-Dichlorobenzene	RC1500051-10	T	Average RF	50	48.00	ppm	-4.0	<=30
1,3-Dichloropropane	RC1500051-10	T	Average RF	50	48.00	ppm	-4.0	<=30
1,4-Dichlorobenzene	RC1500051-10	T	Average RF	50	47.06	ppm	-5.9	<=30
1,4-Dioxane	RC1500051-10	T	Average RF	1000	1031	ppm	3.1	<=30
1-Butanol	RC1500051-10	T	Quadratic	2500	2721	ppm	8.8	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500051-10	T	Average RF	50	50.21	ppm	0.4	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123)	RC1500051-10	T	Average RF	50	53.27	ppm	6.5	<=30
2,2-Dichloropropane	RC1500051-10	T	Average RF	50	42.40	ppm	-15.2	<=30
2,3,6-Trichlorotoluene	RC1500051-10	T	Average RF	50	56.34	ppm	12.7	<=30
2,4,5-Trichlorotoluene	RC1500051-10	T	Average RF	50	56.10	ppm	12.2	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500051-10	T	Average RF	150	164.1	ppm	9.4	<=30
2,4-Dichlorobenzotrifluoride	RC1500051-10	T	Average RF	50	49.76	ppm	-0.5	<=30
2,5-Dichlorobenzotrifluoride	RC1500051-10	T	Average RF	50	49.01	ppm	-2.0	<=30
2-Butanone (MEK)	RC1500051-10	T	Average RF	50	50.05	ppm	0.1	<=30
2-Chloro-1,3-butadiene	RC1500051-10	T	Average RF	50	48.56	ppm	-2.9	<=30
2-Chlorobenzotrifluoride	RC1500051-10	T	Average RF	50	50.77	ppm	1.5	<=30
2-Chloroethyl Vinyl Ether	RC1500051-10	T	Average RF	50	54.20	ppm	8.4	<=30
2-Chlorotoluene	RC1500051-10	T	Average RF	50	48.43	ppm	-3.1	<=30
2-Hexanone	RC1500051-10	T	Average RF	50	54.50	ppm	9.0	<=30
2-Methyl-1-propanol	RC1500051-10	T	Average RF	1000	985.5	ppm	-1.5	<=30
2-Methyl-2-propanol	RC1500051-10	T	Average RF	1000	1035	ppm	3.5	<=30
2-Nitropropane	RC1500051-10	T	Average RF	100	95.59	ppm	-4.4	<=30
2-Propanol	RC1500051-10	T	Average RF	1000	1131	ppm	13.1	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500051-10	T	Average RF	100	110.2	ppm	10.2	<=30
3,4-Dichlorobenzotrifluoride	RC1500051-10	T	Average RF	50	49.67	ppm	-0.7	<=30
3-Chloro-1-propene	RC1500051-10	T	Average RF	50	43.36	ppm	-13.3	<=30
3-Chlorobenzotrifluoride	RC1500051-10	T	Average RF	50	49.27	ppm	-1.5	<=30
3-Chlorotoluene	RC1500051-10	T	Average RF	50	51.60	ppm	3.2	<=30
4-Chlorotoluene	RC1500051-10	T	Average RF	50	49.44	ppm	-1.1	<=30
4-Isopropyltoluene	RC1500051-10	T	Average RF	50	53.05	ppm	6.1	<=30
4-Methyl-2-pentanone	RC1500051-10	T	Average RF	50	53.26	ppm	6.5	<=30

00337

Initial Calibration Verification Summary Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500051-10	T	Quadratic	50	49.38	ppm	-1.2	<=30
Acetonitrile	RC1500051-10	T	Average RF	250	235.1	ppm	-6.0	<=30
Acrolein	RC1500051-10	T	Average RF	100	87.24	ppm	-12.8	<=30
Acrylonitrile	RC1500051-10	T	Average RF	250	249.2	ppm	-0.3	<=30
Benzene	RC1500051-10	T	Average RF	50	46.25	ppm	-7.5	<=30
Bromobenzene	RC1500051-10	T	Average RF	50	46.75	ppm	-6.5	<=30
Bromochloromethane	RC1500051-10	T	Average RF	50	46.97	ppm	-6.1	<=30
Bromodichloromethane	RC1500051-10	T	Average RF	50	48.88	ppm	-2.2	<=30
Bromoform	RC1500051-10	T	Average RF	50	52.79	ppm	5.6	<=30
Bromomethane	RC1500051-10	T	Average RF	50	42.37	ppm	-15.3	<=30
Carbon Disulfide	RC1500051-10	T	Average RF	50	47.97	ppm	-4.1	<=30
Carbon Tetrachloride	RC1500051-10	T	Average RF	50	48.07	ppm	-3.9	<=30
Chlorobenzene	RC1500051-10	T	Average RF	50	47.61	ppm	-4.8	<=30
Chloroethane	RC1500051-10	T	Average RF	50	44.08	ppm	-11.8	<=30
Chloroform	RC1500051-10	T	Average RF	50	46.74	ppm	-6.5	<=30
Chloromethane	RC1500051-10	T	Average RF	50	46.93	ppm	-6.1	<=30
Cyclohexane	RC1500051-10	T	Average RF	50	52.35	ppm	4.7	<=30
Cyclohexanone	RC1500051-10	T	Average RF	1000	971.7	ppm	-2.8	<=30
Dibromochloromethane	RC1500051-10	T	Average RF	50	50.66	ppm	1.3	<=30
Dibromomethane	RC1500051-10	T	Average RF	50	47.26	ppm	-5.5	<=30
Dichlorodifluoromethane (CFC 12)	RC1500051-10	T	Average RF	50	49.23	ppm	-1.5	<=30
Dichlorofluoromethane (CFC 21)	RC1500051-10	T	Average RF	50	61.34	ppm	22.7	<=30
Dichloromethane	RC1500051-10	T	Average RF	50	44.30	ppm	-11.4	<=30
Diethyl Ether	RC1500051-10	T	Average RF	50	50.90	ppm	1.8	<=30
Diisopropyl Ether	RC1500051-10	T	Average RF	50	43.96	ppm	-12.1	<=30
Ethyl Methacrylate	RC1500051-10	T	Average RF	50	55.68	ppm	11.4	<=30
Ethyl tert-Butyl Ether	RC1500051-10	T	Average RF	50	43.58	ppm	-12.8	<=30
Ethylbenzene	RC1500051-10	T	Average RF	50	44.23	ppm	-11.5	<=30
Hexachlorobutadiene	RC1500051-10	T	Average RF	50	47.93	ppm	-4.1	<=30
Iodomethane	RC1500051-10	T	Average RF	50	49.88	ppm	-0.2	<=30
Isopropylbenzene (Cumene)	RC1500051-10	T	Average RF	50	51.70	ppm	3.4	<=30
Methacrylonitrile	RC1500051-10	T	Average RF	50	47.98	ppm	-4.0	<=30
Methyl Acetate	RC1500051-10	T	Average RF	50	53.33	ppm	6.7	<=30
Methyl Methacrylate	RC1500051-10	T	Average RF	50	53.55	ppm	7.1	<=30
Methyl tert-Butyl Ether	RC1500051-10	T	Average RF	50	47.27	ppm	-5.5	<=30
Methylcyclohexane	RC1500051-10	T	Average RF	50	53.44	ppm	6.9	<=30
Naphthalene	RC1500051-10	T	Average RF	50	53.54	ppm	7.1	<=30
Propionitrile	RC1500051-10	T	Average RF	250	252.0	ppm	0.8	<=30
Styrene	RC1500051-10	T	Average RF	50	50.09	ppm	0.2	<=30
Tetrachloroethene (PCE)	RC1500051-10	T	Average RF	50	46.03	ppm	-7.9	<=30
Tetrahydrofuran (THF)	RC1500051-10	T	Average RF	50	51.44	ppm	2.9	<=30
Toluene	RC1500051-10	T	Average RF	50	46.91	ppm	-6.2	<=30
Trichloroethene (TCE)	RC1500051-10	T	Average RF	50	47.62	ppm	-4.8	<=30
Trichlorofluoromethane (CFC 11)	RC1500051-10	T	Average RF	50	45.60	ppm	-8.8	<=30
Vinyl Acetate	RC1500051-10	T	Average RF	50	47.17	ppm	-5.7	<=30
Vinyl Chloride	RC1500051-10	T	Average RF	50	44.72	ppm	-10.6	<=30
cis-1,2-Dichloroethene	RC1500051-10	T	Average RF	50	47.10	ppm	-5.8	<=30
cis-1,3-Dichloropropene	RC1500051-10	T	Average RF	50	48.73	ppm	-2.5	<=30
m,p-Xylenes	RC1500051-10	T	Average RF	100	98.63	ppm	-1.4	<=30
n-Butyl Acetate	RC1500051-10	T	Average RF	50	61.41	ppm	22.8	<=30
n-Butylbenzene	RC1500051-10	T	Average RF	50	51.87	ppm	3.7	<=30

00338

Initial Calibration Verification Summary Report

Calibration ID: RC1500051

Instrument ID: R-MS-10

Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500051-10	T	Average RF	50	47.78	ppm	-4.4	<=30
n-Propylbenzene	RC1500051-10	T	Average RF	50	51.16	ppm	2.3	<=30
o-Xylene	RC1500051-10	T	Average RF	50	47.88	ppm	-4.2	<=30
sec-Butylbenzene	RC1500051-10	T	Average RF	50	51.84	ppm	3.7	<=30
tert-Amyl Methyl Ether	RC1500051-10	T	Average RF	50	47.39	ppm	-5.2	<=30
tert-Butylbenzene	RC1500051-10	T	Average RF	50	49.87	ppm	-0.3	<=30
trans-1,2-Dichloroethene	RC1500051-10	T	Average RF	50	45.68	ppm	-8.6	<=30
trans-1,3-Dichloropropene	RC1500051-10	T	Average RF	50	48.71	ppm	-2.6	<=30
trans-1,4-Dichloro-2-butene	RC1500051-10	T	Average RF	50	47.68	ppm	-4.6	<=30
1,2-Dichloroethane-d4	RC1500051-10	S	Average RF	50	49.49	ppm	-1.0	<=30
4-Bromofluorobenzene	RC1500051-10	S	Average RF	50	49.30	ppm	-1.4	<=30
Dibromofluoromethane	RC1500051-10	S	Average RF	50	48.97	ppm	-2.1	<=30
Toluene-d8	RC1500051-10	S	Average RF	50	49.17	ppm	-1.7	<=30

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8264.D
 Acq On : 6 May 2015 10:31 pm
 Operator : F. NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 12:50:39 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 12:42:58 2015
 Response via : Initial Calibration

FU
5/7/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	964887	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1466598	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1395022	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	830453	50.00	ug/L	0.00

System Monitoring Compounds

43) surr4,Dibrflmethane	4.835	113	448198	48.97	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	97.94%
46) surr1,1,2-dichloroetha...	5.414	65	465450	49.49	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	98.98%
64) SURR3,Toluene-d8	8.042	98	1715688	49.17	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.34%
69) SURR2,BFB	10.675	95	699041	49.30	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	98.60%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.159	85	493297	49.23	ug/L	95
3) Chloromethane	1.281	50	860704	46.93	ug/L	98
4) Vinyl Chloride	1.354	62	597495	44.72	ug/L	98
5) Bromomethane	1.573	94	234160	42.37	ug/L	100
6) Chloroethane	1.634	64	289178	44.08	ug/L	92
7) Freon 21	1.762	67	983186	61.34	ug/L	100
8) Trichlorofluoromethane	1.811	101	588120	45.60	ug/L	99
9) Diethyl Ether	2.012	59	395387	50.90	ug/L #	73
10) Freon 123a	2.012	67	567472	57.99	ug/L	92
11) Freon 123	2.061	83	576765m	53.27	ug/L	
12) Acrolein	2.110	56	127291	87.24	ug/L	96
13) 1,1-Dicethene	2.195	96	313421	44.09	ug/L #	74
14) Freon 113	2.195	101	335780	45.15	ug/L	91
15) Acetone	2.226	43	140055	49.38	ug/L	95
16) 2-Propanol	2.329	45	572285	1131.26	ug/L	95
17) Iodomethane	2.317	142	525112	49.88	ug/L	100
18) Carbon Disulfide	2.378	76	1224816	47.97	ug/L	100
19) Acetonitrile	2.451	40	104564	235.09	ug/L	94
20) Allyl Chloride	2.488	76	200552	43.36	ug/L #	1
21) Methyl Acetate	2.506	43	374781	53.33	ug/L	88
22) Methylene Chloride	2.598	84	386375	44.30	ug/L #	61
23) TBA	2.695	59	670974	1035.45	ug/L	70
24) Acrylonitrile	2.823	53	777411	249.21	ug/L	99
25) Methyl-t-Butyl Ether	2.866	73	960968	47.27	ug/L	87
26) trans-1,2-Dichloroethene	2.860	96	365476	45.68	ug/L #	81
27) 1,1-Dicethane	3.305	63	847286	47.43	ug/L	97
28) Vinyl Acetate	3.378	86	67954	47.17	ug/L #	59
29) DIPE	3.408	45	2152810	43.96	ug/L #	75
30) 2-Chloro-1,3-Butadiene	3.414	53	1008822	48.56	ug/L	87
31) ETBE	3.878	59	1457433	43.58	ug/L	94
32) 2,2-Dichloropropane	4.048	77	489461	42.40	ug/L	95
33) cis-1,2-Dichloroethene	4.055	96	451658	47.10	ug/L	89
34) 2-Butanone	4.091	43	227176	50.05	ug/L	83
35) Propionitrile	4.170	54	283864	251.98	ug/L	100

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8264.D
 Acq On : 6 May 2015 10:31 pm
 Operator : F. NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 12:50:39 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 12:42:58 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	276971	46.97	ug/L #	62
37) Methacrylonitrile	4.402	67	127709	47.98	ug/L #	47
38) Tetrahydrofuran	4.500	42	144344	51.44	ug/L	73
39) Chloroform	4.561	83	742729	46.74	ug/L	97
40) 1,1,1-Trichloroethane	4.859	97	635972	47.05	ug/L	98
42) Cyclohexane	4.951	41	729970	52.35	ug/L	91
44) Carbontetrachloride	5.152	121	174192	48.07	ug/L #	79
45) 1,1-Dichloropropene	5.164	75	533526	45.00	ug/L	98
47) Benzene	5.499	78	1699820	46.25	ug/L	81
48) 1,2-Dichloroethane	5.542	62	609873	48.06	ug/L	91
49) Iso-Butyl Alcohol	5.493	43	375670	985.45	ug/L	90
50) TAME	5.743	73	1003942	47.39	ug/L	81
51) n-Heptane	6.005	43	763548	47.78	ug/L	80
52) 1-Butanol	6.517	56	464894	2720.72	ug/L	78
53) Trichloroethene	6.493	130	483640	47.62	ug/L	98
54) Methylcyclohexane	6.749	55	802656	53.44	ug/L #	79
55) 1,2-Dicloropropane	6.792	63	509222	46.99	ug/L	98
56) Dibromomethane	6.938	93	225247	47.26	ug/L	94
57) 1,4-Dioxane	7.005	88	55748	1031.00	ug/L #	39
58) Methyl Methacrylate	7.023	69	228564	53.55	ug/L #	46
59) Bromodichloromethane	7.176	83	558068	48.88	ug/L	98
60) 2-Nitropropane	7.469	41	119531	95.59	ug/L	99
61) 2-Chloroethylvinyl Ether	7.597	63	274633	54.20	ug/L	89
62) cis-1,3-Dichloropropene	7.737	75	630579	48.73	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	494232	53.26	ug/L	89
65) Toluene	8.121	91	1862053	46.91	ug/L	96
66) trans-1,3-Dichloropropene	8.395	75	525358	48.71	ug/L	94
67) Ethyl Methacrylate	8.541	69	473293	55.68	ug/L #	54
68) 1,1,2-Trichloroethane	8.590	97	334812	47.31	ug/L	97
71) Tetrachloroethene	8.730	164	385916	46.03	ug/L	98
72) 2-Hexanone	8.895	43	342991	54.50	ug/L	90
73) 1,3-Dichloropropane	8.767	76	585086	48.00	ug/L #	76
74) Dibromochloromethane	8.999	129	421433	50.66	ug/L	98
75) N-Butyl Acetate	9.054	43	928296	61.41	ug/L	92
76) 1,2-Dibromoethane	9.102	107	336530	49.54	ug/L	94
77) 3-Chlorobenzotrifluoride	9.627	180	752265	49.27	ug/L	98
78) Chlorobenzene	9.602	112	1305968	47.61	ug/L	100
79) 4-Chlorobenzotrifluoride	9.681	180	674732	50.21	ug/L	94
80) 1,1,1,2-Tetrachloroethane	9.694	131	454385	48.38	ug/L	98
81) Ethylbenzene	9.730	106	636306	44.23	ug/L	97
82) (m+p)Xylene	9.846	106	1707075	98.63	ug/L	89
83) o-Xylene	10.206	106	822160	47.88	ug/L	97
84) Styrene	10.224	104	1456462	50.09	ug/L	95
85) Bromoform	10.376	173	239160	52.79	ug/L	96
86) 2-Chlorobenzotrifluoride	10.456	180	733880	50.77	ug/L	91
87) Isopropylbenzene	10.547	105	2181133	51.70	ug/L	97
88) Cyclohexanone	10.614	55	436658	971.70	ug/L	92
89) trans-1,4-Dichloro-2-B...	10.864	53	145130	47.68	ug/L	82
91) 1,1,2,2-Tetrachloroethane	10.815	83	425696	50.19	ug/L	98
92) Bromobenzene	10.797	156	562372	46.75	ug/L	93
93) 1,2,3-Trichloropropane	10.840	110	118605	47.51	ug/L	95

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8264.D
 Acq On : 6 May 2015 10:31 pm
 Operator : F. NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 12:50:39 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 12:42:58 2015
 Response via : Initial Calibration

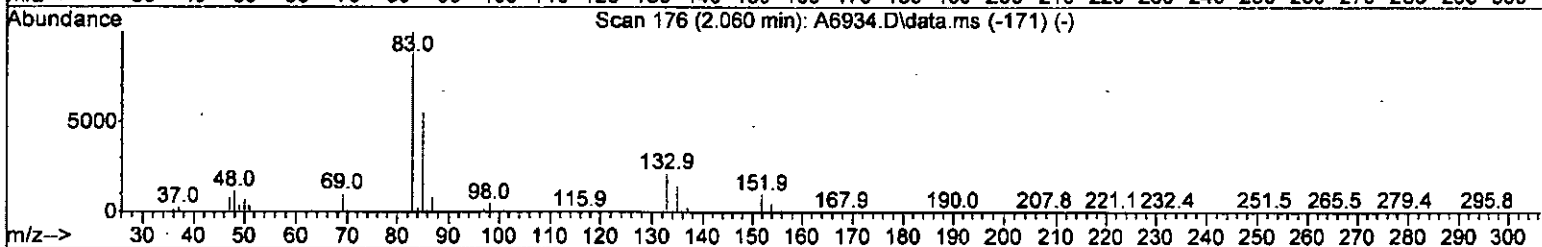
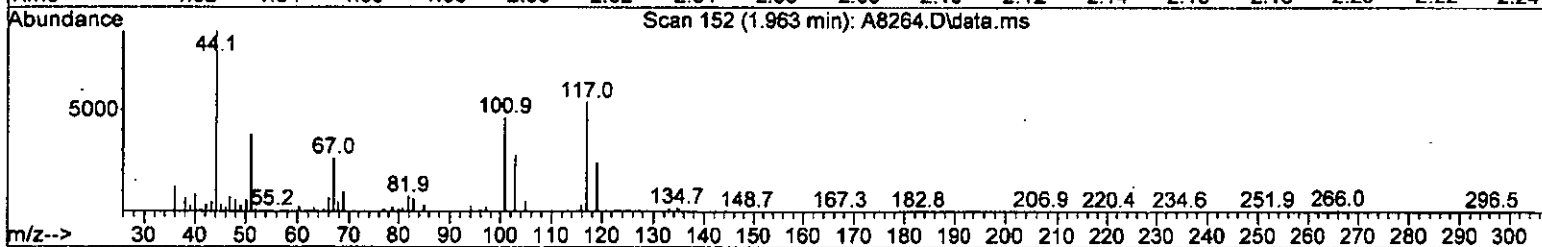
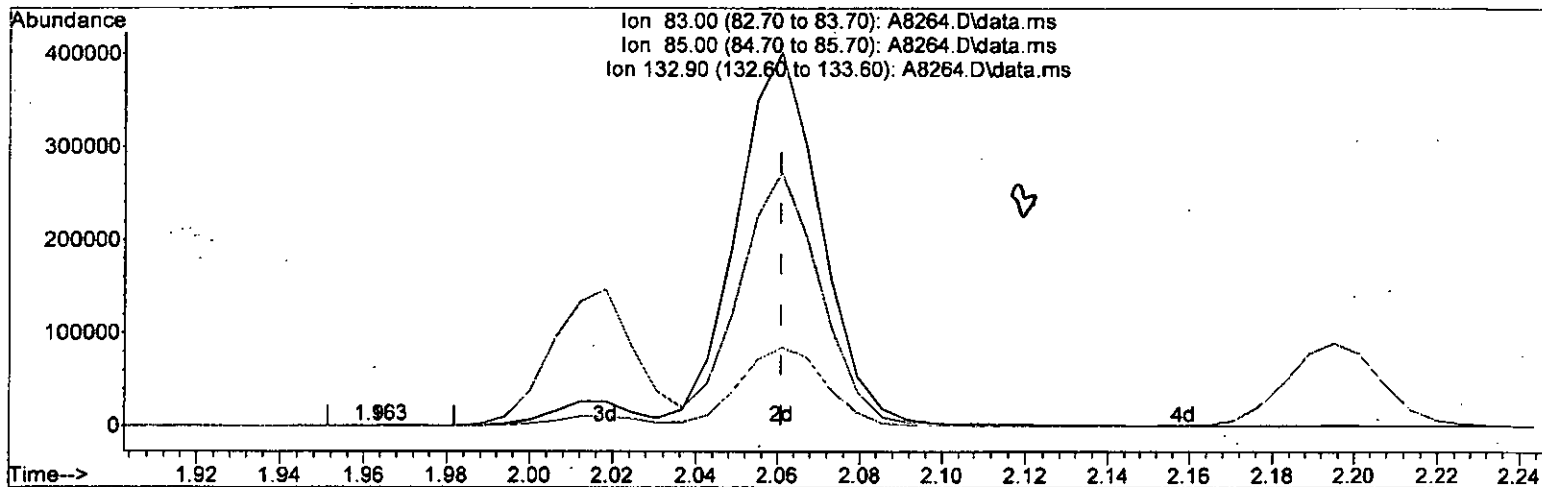
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	2524105	51.16	ug/L	99
95) 2-Chlorotoluene	10.974	91	1498082	48.43	ug/L	96
96) 3-Chlorotoluene	11.023	91	1685588	51.60	ug/L	98
97) 4-Chlorotoluene	11.065	91	1823198	49.44	ug/L	97
98) 1,3,5-Trimethylbenzene	11.065	105	1900259	51.57	ug/L	97
99) tert-Butylbenzene	11.340	119	1595457	49.87	ug/L	98
100) 1,2,4-Trimethylbenzene	11.376	105	1921358	51.06	ug/L	97
101) 3,4-Dichlorobenzotrifl...	11.443	214	543741	49.67	ug/L	98
102) sec-Butylbenzene	11.523	105	2251473	51.84	ug/L	98
103) p-Isopropyltoluene	11.645	119	2053039	53.05	ug/L	98
104) 1,3-Dclbenz	11.602	146	1175279	48.00	ug/L	98
105) 1,4-Dclbenz	11.681	146	1207885	47.06	ug/L	99
106) 2,4-Dichlorobenzotrifl...	11.736	214	510995	49.76	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.773	214	570516	49.01	ug/L	99
108) n-Butylbenzene	11.980	91	1772584	51.87	ug/L	97
109) 1,2-Dclbenz	11.986	146	1108674	48.99	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.608	157	80734	52.03	ug/L	98
111) Trielution Dichlorotol...	12.730	125	3183376	164.09	ug/L	97
112) 1,3,5-Trichlorobenzene	12.785	180	853627	51.51	ug/L	98
113) Coelution Dichlorotoluene	13.059	125	2284520	110.23	ug/L	95
114) 1,2,4-Tcbenzene	13.266	180	725726	50.90	ug/L	98
115) Hexachlorobt	13.406	225	282932	47.93	ug/L	94
116) Naphthalen	13.461	128	1430660	53.54	ug/L	97
117) 1,2,3-Tclbenzene	13.650	180	590964	50.33	ug/L	97
118) 2,4,5-Trichlorotoluene	14.235	159	485723	56.10	ug/L	97
119) 2,3,6-Trichlorotoluene	14.321	159	426315	56.34	ug/L	98

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

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8264.D
 Acq On : 6 May 2015 10:31 pm
 Operator : F. NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 12:50:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 12:42:58 2015
 Response via : Initial Calibration



TIC: A8264.D\data.ms

(11) Freon 123

1.963min (-0.097) 0.07 ug/L

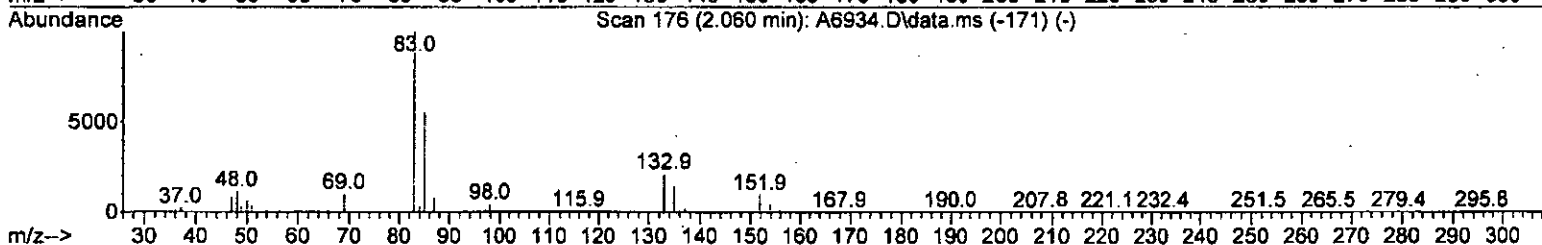
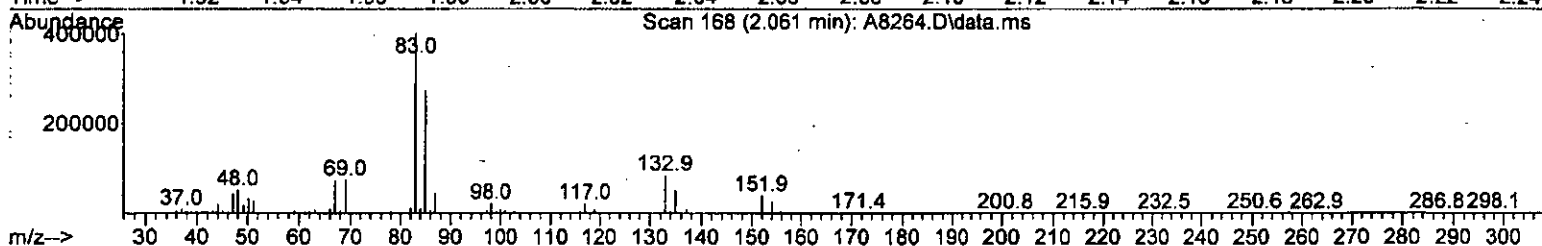
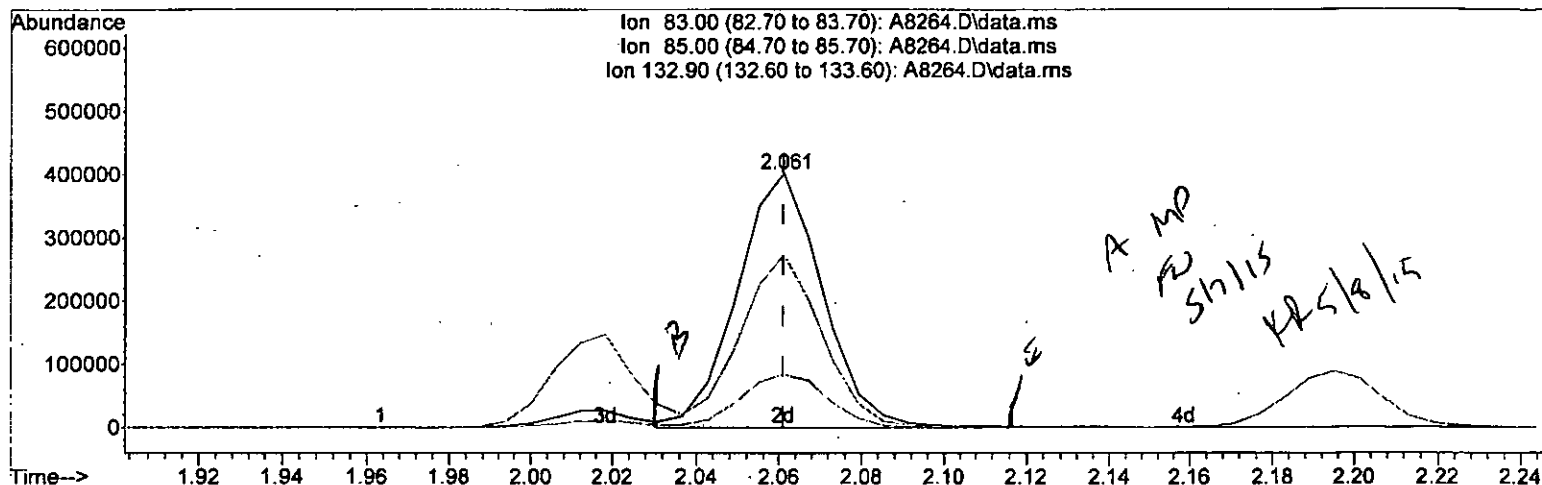
response 809

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	48.99
132.90	19.90	23.88
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8264.D
 Acq On : 6 May 2015 10:31 pm
 Operator : F. NAEGLER
 Sample : 50 PPB ICV
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 07 12:50:00 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 12:42:58 2015
 Response via : Initial Calibration



TIC: A8264.D\data.ms

(11) Freon 123

2.061min (+0.000) 53.27 ug/L m

response 576765

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	67.95#
132.90	19.90	20.99
0.00	0.00	0.00

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/24/15

**Continuing Calibration Verification Summary
 Volatile Organic Compounds by GC/MS**

Analytical Method: 8260C

Calibration Date: 5/6/15
Calibration ID: RC1500051
Analysis Lot: 446162
Units: µg/L

File ID: I:\ACQUDATA\MSVOA10\DATA\052415\A8830.D\

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	47.3	0.9504	0.8997	-5.3	NA	± 20 %	Average RF
Vinyl Chloride	50.0	48.5	0.6923	0.6721	-2.9	NA	± 20 %	Average RF
Chloroethane	50.0	47.5	0.3399	0.3230	-5.0	NA	± 20 %	Average RF
Bromomethane	50.0	39.8	0.2864	0.2282	-20.3 *	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	48.4	0.3684	0.3567	-3.2	NA	± 20 %	Average RF
Acetone	50.0	47.8	NA	NA	NA	-4.4	± 20 %	Quadratic
Carbon Disulfide	50.0	48.5	1.323	1.285	-2.9	NA	± 20 %	Average RF
Methylene Chloride	50.0	44.4	0.4520	0.4015	-11.2	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	47.1	0.4146	0.3908	-5.7	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	47.1	0.9257	0.8726	-5.7	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	46.2	0.4970	0.4589	-7.7	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	46.5	0.2352	0.2185	-7.1	NA	± 20 %	Average RF
Chloroform	50.0	46.9	0.8234	0.7730	-6.1	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	46.9	0.7004	0.6566	-6.3	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	49.3	0.1235	0.1218	-1.4	NA	± 20 %	Average RF
Benzene	50.0	46.8	1.253	1.173	-6.4	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	47.4	0.4326	0.4098	-5.3	NA	± 20 %	Average RF
Trichloroethene	50.0	52.0	0.3463	0.3604	4.1	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	46.4	0.3694	0.3431	-7.1	NA	± 20 %	Average RF
Bromodichloromethane	50.0	47.7	0.3893	0.3713	-4.6	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	46.1	0.4412	0.4069	-7.8	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	48.4	0.3164	0.3061	-3.3	NA	± 20 %	Average RF
Toluene	50.0	46.9	1.353	1.268	-6.3	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	45.7	0.3677	0.3363	-8.5	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	45.5	0.2413	0.2193	-9.1	NA	± 20 %	Average RF
Tetrachloroethene	50.0	47.0	0.3005	0.2823	-6.1	NA	± 20 %	Average RF
2-Hexanone	50.0	51.4	0.2256	0.2318	2.8	NA	± 20 %	Average RF
Dibromochloromethane	50.0	52.6	0.2981	0.3135	5.2	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.0	0.9831	0.9833	0.0	NA	± 20 %	Average RF
Ethylbenzene	50.0	49.6	0.5157	0.5112	-0.9	NA	± 20 %	Average RF
m,p-Xylenes	100	102	0.6204	0.6319	1.9	NA	± 20 %	Average RF
o-Xylene	50.0	49.1	0.6155	0.6046	-1.8	NA	± 20 %	Average RF
Styrene	50.0	51.7	1.042	1.077	3.4	NA	± 20 %	Average RF
Bromoform	50.0	53.2	0.1624	0.1726	6.3	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	44.1	0.5106	0.4507	-11.7	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	46.4	0.4834	0.4488	-7.2	NA	± 20 %	Average RF
Toluene-d8	50.0	48.4	1.190	1.153	-3.1	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	49.9	0.3120	0.3117	-0.1	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8830.D

Acq On : 24 May 2015 9:20 pm

Operator : F.Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 25 08:40:45 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	104	0.00
2 P	Dichlorodifluoromethane	0.5192	0.5490	-5.7	101	0.00
3 P	Chloromethane	0.9504	0.8997	5.3	97	0.00
4 P	Vinyl Chloride	0.6923	0.6721	2.9	100	0.00
5 P	Bromomethane	0.2864	0.2282	20.3#	87	0.00
6 P	Chloroethane	0.3399	0.3230	5.0	102	0.00
7	Freon 21	0.8305	0.8848	-6.5	105	0.00
8 P	Trichlorofluoromethane	0.6683	0.6788	-1.6	105	0.00
9	Diethyl Ether	0.4025	0.3926	2.5	98	0.00
10	Freon 123a	0.5071	0.5419	-6.9	108	0.00
11	Freon 123	0.5610	0.5773	-2.9	107	0.00
12	Acrolein	0.0756	0.0544	28.0#	74	0.00
13	1,1-Dichloroethene	0.3684	0.3567	3.2	103	0.00
14 P	Freon 113	0.3854	0.3785	1.8	105	0.00
15 P	Acetone	0.1691	0.1409	16.7	104	0.00
16	2-Propanol	0.0262	0.0268	-2.3	103	0.00
17	Iodomethane	0.5455	0.2902	46.8#	53	0.00
18 P	Carbon Disulfide	1.3232	1.2845	2.9	102	0.00
19	Acetonitrile	0.0230	0.0239	-3.9	110	0.00
20	Allyl Chloride	0.2397	0.2521	-5.2	108	0.00
21 P	Methyl Acetate	0.3642	0.3463	4.9	103	0.00
22 P	Methylene Chloride	0.4520	0.4015	11.2	97	0.00
23	TBA	0.0336	0.0311	7.4	100	0.00
24	Acrylonitrile	0.1616	0.1544	4.5	99	0.00
25 P	Methyl-t-Butyl Ether	1.0534	0.9412	10.7	95	0.00
26 P	trans-1,2-Dichloroethene	0.4146	0.3908	5.7	100	0.00
27 P	1,1-Dichloroethane	0.9257	0.8726	5.7	98	0.00
28	Vinyl Acetate	0.0747	0.0316	57.7#	45#	0.00
29	DIPE	2.5377	0.0000	100.0#	0#	0.00
30	2-Chloro-1,3-Butadiene	1.0766	1.1459	-6.4	107	0.00
31	ETBE	1.7332	0.0000	100.0#	0#	3.88#
32	2,2-Dichloropropane	0.5982	0.4163	30.4#	73	0.00
33 P	cis-1,2-Dichloroethene	0.4970	0.4589	7.7	97	0.00
34 P	2-Butanone	0.2352	0.2185	7.1	100	0.00
35	Propionitrile	0.0584	0.0541	7.4	96	0.00
36	Bromochloromethane	0.3056	0.2922	4.4	99	0.00
37	Methacrylonitrile	0.1379	0.1208	12.4	93	0.00
38	Tetrahydrofuran	0.1454	0.1271	12.6	94	0.00
39 P	Chloroform	0.8234	0.7730	6.1	99	0.00
40 P	1,1,1-Trichloroethane	0.7004	0.6566	6.3	98	0.00
41 i	1,4-Difluorobenzene	1.0000	1.0000	0.0	102	0.00
42 P	Cyclohexane	0.4754	0.4780	-0.5	102	0.00
43 s	surr4,Dibrflmethane	0.3120	0.3117	0.1	105	0.00
44 P	Carbontetrachloride	0.1235	0.1218	1.4	101	0.00
45	1,1-Dichloropropene	0.4042	0.3784	6.4	97	0.00
46 s	surr1,1,2-dichloroethane-d4	0.3206	0.3152	1.7	104	0.00

KF 5/25/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8830.D

Acq On : 24 May 2015 9:20 pm

Operator : F.Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 25 08:40:45 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	1.2531	1.1729	6.4	98 0.00
48 P	1,2-Dichloroethane	0.4326	0.4098	5.3	97 0.00
49	Iso-Butyl Alcohol	0.0130	0.0112	13.8	96 0.00
50	~~TAME~~	~~0.7222~~	~~0.0000~~	~~100.0#~~	~~0# -5.74#~~
51	n-Heptane	0.5448	0.4592	15.7	86 0.00
52	~~1-Butanol~~	~~0.0058~~	~~0.0000~~	~~100.0#~~	~~0# -6.52#~~
53 P	Trichloroethene	0.3463	0.3604	-4.1	108 0.00
54 P	Methylcyclohexane	0.5121	0.5019	2.0	100 0.00
55 P	1,2-Dichloropropane	0.3694	0.3431	7.1	98 0.00
56	Dibromomethane	0.1625	0.1490	8.3	97 0.00
57	1,4-Dioxane	0.0018	0.0018	0.0	111 0.00
58	Methyl Methacrylate	0.1455	0.1332	8.5	92 0.00
59 P	Bromodichloromethane	0.3893	0.3713	4.6	98 0.00
60	2-Nitropropane	0.0426	0.0452	-6.1	114 0.00
61	2-Chloroethylvinyl Ether	0.1728	0.1594	7.8	93 0.00
62 P	cis-1,3-Dichloropropene	0.4412	0.4069	7.8	91 0.00
63 P	4-Methyl-2-pentanone	0.3164	0.3061	3.3	97 0.00
64 s	SURR3,Toluene-d8	1.1896	1.1526	3.1	100 0.00
65 P	Toluene	1.3531	1.2678	6.3	97 0.00
66 P	trans-1,3-Dichloropropene	0.3677	0.3363	8.5	91 0.00
67	Ethyl Methacrylate	0.2898	0.2752	5.0	94 0.00
68 P	1,1,2-Trichloroethane	0.2413	0.2193	9.1	95 0.00
69 s	SURR2,BFB	0.4834	0.4488	7.2	95 0.00
70 i	d5-Chlorobenzene	1.0000	1.0000	0.0	96 0.00
71 P	Tetrachloroethene	0.3005	0.2823	6.1	95 0.00
72 P	2-Hexanone	0.2256	0.2318	-2.7	98 0.00
73	1,3-Dichloropropene	0.4369	0.4291	1.8	97 0.00
74 P	Dibromochloromethane	0.2981	0.3135	-5.2	98 0.00
75	N-Butyl Acetate	0.5418	0.5650	-4.3	95 0.00
76 P	1,2-Dibromoethane	0.2435	0.2405	1.2	96 0.00
77	~~3-Chlorobenzotrifluoride~~	~~0.5472~~	~~0.0001~~	~~100.0#~~	~~0# 0.00~~
78 P	Chlorobenzene	0.9831	0.9833	-0.0	96 0.00
79	~~4-Chlorobenzotrifluoride~~	~~0.4816~~	~~0.0001~~	~~100.0#~~	~~0# 0.00~~
80	1,1,1,2-Tetrachloroethane	0.3366	0.3309	1.7	93 0.00
81 P	Ethylbenzene	0.5157	0.5112	0.9	96 0.00
82 P	(m+p)Xylene	0.6204	0.6319	-1.9	94 0.00
83 P	o-Xylene	0.6155	0.6046	1.8	93 0.00
84 P	Styrene	1.0423	1.0772	-3.3	94 0.00
85 P	Bromoform	0.1624	0.1726	-6.3	96 0.00
86	~~2-Chlorobenzotrifluoride~~	~~0.5181~~	~~0.0000~~	~~100.0#~~	~~0# 0.00~~
87 P	Isopropylbenzene	1.5120	1.5573	-3.0	92 0.00
88	Cyclohexanone	0.0161	0.0099	NT 38.5#	62 0.00
89	trans-1,4-Dichloro-2-Butene	0.1091	0.0911	16.5	83 0.00
90 i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	94 0.00
91 P	1,1,2,2-Tetrachloroethane	0.5106	0.4507	11.7	81 0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8830.D
 Acq On : 24 May 2015 9:20 pm
 Operator : F.Naegler
 Sample : CCV
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 08:40:45 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 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	0.7243	0.7071	2.4	95	0.00
93	1,2,3-Trichloropropane	0.1503	0.1460	2.9	98	0.00
94	n-Propylbenzene	2.9707	3.1827	-7.1	93	0.00
95	2-Chlorotoluene	1.8626	1.8794	-0.9	93	0.00
96	3-Chlorotoluene	1.9669	0.0000	100.0#	0#	11.03#
97	4-Chlorotoluene	2.2203	2.2722	-2.3	92	0.00
98	1,3,5-Trimethylbenzene	2.2186	2.2874	-3.1	90	0.00
99	tert-Butylbenzene	1.9260	1.9357	-0.5	90	0.00
100	1,2,4-Trimethylbenzene	2.2658	2.3749	-4.8	92	0.00
101	3,4-Dichlorobenzotrifluorid	0.6591	0.0002	100.0#	0#	0.01
102	sec-Butylbenzene	2.6151	2.7248	-4.2	90	0.00
103	p-Isopropyltoluene	2.3299	2.4035	-3.2	90	0.00
104 P	1,3-Dclbenz	1.4741	1.4240	3.4	90	0.00
105 P	1,4-Dclbenz	1.5453	1.4741	4.6	91	0.00
106	2,4-Dichlorobenzotrifluorid	0.6183	0.0001	100.0#	0#	0.00
107	2,5-Dichlorobenzotrifluorid	0.7008	0.0001	100.0#	0#	-0.02
108	n-Butylbenzene	2.0576	2.0765	-0.9	88	0.00
109 P	1,2-Dclbenz	1.3624	1.3612	0.1	93	0.00
110 P	1,2-Dibromo-3-chloropropane	0.0934	0.0907	2.9	96	0.00
111	Trielution Dichlorotoluene	1.1680	0.0004	100.0#	0#	0.00
112	1,3,5-Trichlorobenzene	0.9978	0.0001	100.0#	0#	-0.01
113	Coelution Dichlorotoluene	1.2478	0.0004	100.0#	0#	0.00
114 P	1,2,4-Tclbenzene	0.8584	0.8090	5.8	86	0.00
115	Hexachlorobt	0.3554	0.3182	10.5	85	0.00
116	Naphthalen	1.6087	1.5938	0.9	88	0.00
117	1,2,3-Tclbenzene	0.7069	0.6815	3.6	87	0.00
118	2,4,5-Trichlorotoluene	0.5213	0.0002	100.0#	0#	0.00
119	2,3,6-Trichlorotoluene	0.4556	0.0001	100.0#	0#	0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8830.D

Acq On : 24 May 2015 9:20 pm

Operator : F.Naegler

Sample : CCV 20150528-02

Misc :

Inst : MSVOA10

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 25 08:40:45 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	998279	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1502136	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1341602	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	774971	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibromomethane	4.829	113	468153	49.94	ug/L	0.00
Spiked Amount 50.000	Range 89	- 119	Recovery	=	99.88%	
46) surr1,1,2-dichloroetha...	5.414	65	473461	49.15	ug/L	0.00
Spiked Amount 50.000	Range 78	- 122	Recovery	=	98.30%	
64) SURR3,Toluene-d8	8.041	98	1731290	48.44	ug/L	0.00
Spiked Amount 50.000	Range 87	- 121	Recovery	=	96.88%	
69) SURR2,BFB	10.675	95	674200	46.42	ug/L	0.00
Spiked Amount 50.000	Range 85	- 122	Recovery	=	92.84%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	548089	52.87	ug/L	98
3) Chloromethane	1.281	50	898178	47.33	ug/L	99
4) Vinyl Chloride	1.348	62	670942	48.54	ug/L	98
5) Bromomethane	1.567	94	227821	39.84	ug/L	100
6) Chloroethane	1.634	64	322464	47.51	ug/L	92
7) Freon 21	1.762	67	883281	53.27	ug/L	100
8) Trichlorofluoromethane	1.811	101	677614	50.79	ug/L	97
9) Diethyl Ether	2.012	59	391902	48.76	ug/L #	76
10) Freon 123a	2.012	67	540938	53.43	ug/L	96
11) Freon 123	2.061	83	576337	51.45	ug/L	81
12) Acrolein	2.104	56	271682	179.97	ug/L	97
13) 1,1-Dicethene	2.195	96	356131	48.42	ug/L #	86
14) Freon 113	2.195	101	377821	49.11	ug/L	96
15) Acetone	2.226	43	140646	47.82	ug/L	95
16) 2-Propanol	2.329	45	534284	1020.81	ug/L	94
17) Iodomethane	2.317	142	289672	26.60	ug/L	100
18) Carbon Disulfide	2.378	76	1282300	48.54	ug/L	100
19) Acetonitrile	2.451	40	119301	259.25	ug/L	93
20) Allyl Chloride	2.488	76	251696	52.60	ug/L #	12
21) Methyl Acetate	2.500	43	345736	47.55	ug/L	84
22) Methylene Chloride	2.591	84	400846	44.42	ug/L #	58
23) TBA	2.695	59	620285	925.21	ug/L	65
24) Acrylonitrile	2.817	53	770837	238.84	ug/L	98
25) Methyl-t-Butyl Ether	2.860	73	939577	44.68	ug/L	86
26) trans-1,2-Dichloroethene	2.860	96	390167m	47.13	ug/L	
27) 1,1-Dicethene	3.305	63	871093	47.13	ug/L	98
28) Vinyl Acetate	3.372	86	31511	21.14	ug/L #	77
30) 2-Chloro-1,3-Butadiene	3.414	53	1143901	53.22	ug/L	86
32) 2,2-Dichloropropane	4.048	77	415624	34.80	ug/L	96
33) cis-1,2-Dichloroethene	4.054	96	458130	46.17	ug/L	92
34) 2-Butanone	4.085	43	218160	46.45	ug/L	89
35) Propionitrile	4.164	54	269916	231.59	ug/L	96
36) Bromochloromethane	4.408	130	291648	47.80	ug/L #	73
37) Methacrylonitrile	4.408	67	120602	43.80	ug/L #	31

K2
5/25/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8830.D

Acq On : 24 May 2015 9:20 pm

Operator : F.Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 25 08:40:45 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.493	42	126833	43.69	ug/L	80
39) Chloroform	4.560	83	771657	46.94	ug/L	97
40) 1,1,1-Trichloroethane	4.853	97	655508	46.87	ug/L	93
42) Cyclohexane	4.945	41	718025	50.27	ug/L	94
44) Carbontetrachloride	5.152	121	182892	49.28	ug/L	87
45) 1,1-Dichloropropene	5.158	75	568467	46.82	ug/L	96
47) Benzene	5.499	78	1761879	46.80	ug/L	81
48) 1,2-Dichloroethane	5.536	62	615606	47.37	ug/L	89
49) Iso-Butyl Alcohol	5.493	43	334986	857.94	ug/L	94
51) n-Heptane	6.005	43	689797	42.14	ug/L	79
53) Trichloroethene	6.493	130	541322	52.04	ug/L	94
54) Methylcyclohexane	6.743	55	753876	49.00	ug/L #	79
55) 1,2-Diclpropane	6.792	63	515379	46.44	ug/L	98
56) Dibromomethane	6.938	93	223749	45.83	ug/L	99
57) 1,4-Dioxane	7.005	88	54757m	988.72	ug/L	
58) Methyl Methacrylate	7.023	69	200137	45.78	ug/L #	59
59) Bromodichloromethane	7.170	83	557705	47.69	ug/L	99
60) 2-Nitropropane	7.468	41	135871	106.08	ug/L	96
61) 2-Chloroethylvinyl Ether	7.596	63	239429	46.13	ug/L	93
62) cis-1,3-Dichloropropene	7.737	75	611193	46.11	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	459786	48.37	ug/L	88
65) Toluene	8.121	91	1904426	46.85	ug/L	98
66) trans-1,3-Dichloropropene	8.395	75	505185	45.73	ug/L	97
67) Ethyl Methacrylate	8.541	69	413354	47.48	ug/L #	52
68) 1,1,2-Trichloroethane	8.590	97	329438	45.45	ug/L	94
71) Tetrachloroethene	8.730	164	378673	46.96	ug/L	99
72) 2-Hexanone	8.889	43	310951	51.38	ug/L	89
73) 1,3-Dichloropropene	8.767	76	575726	49.11	ug/L #	77
74) Dibromochloromethane	8.999	129	420626	52.58	ug/L	98
75) N-Butyl Acetate	9.053	43	757963	52.14	ug/L	92
76) 1,2-Dibromoethane	9.096	107	322607	49.38	ug/L	100
78) Chlorobenzene	9.602	112	1319205	50.01	ug/L	97
80) 1,1,1,2-Tetrachloroethane	9.694	131	443998	49.16	ug/L	96
81) Ethylbenzene	9.730	106	685876	49.57	ug/L	98
82) (m+p)Xylene	9.846	106	1695458	101.86	ug/L	93
83) o-Xylene	10.206	106	811123	49.12	ug/L	96
84) Styrene	10.218	104	1445204	51.68	ug/L	99
85) Bromoform	10.376	173	231601	53.16	ug/L	98
87) Isopropylbenzene	10.547	105	2089297	51.50	ug/L	99
88) Cyclohexanone	10.614	55	265121	613.47	ug/L	91
89) trans-1,4-Dichloro-2-B...	10.864	53	122194	41.75	ug/L	83
91) 1,1,2,2-Tetrachloroethane	10.809	83	349281	44.13	ug/L	98
92) Bromobenzene	10.797	156	548010	48.82	ug/L	92
93) 1,2,3-Trichloropropane	10.840	110	113171	48.58	ug/L #	82
94) n-Propylbenzene	10.907	91	2466473	53.57	ug/L	98
95) 2-Chlorotoluene	10.974	91	1456506	50.45	ug/L	97
97) 4-Chlorotoluene	11.065	91	1760909	51.17	ug/L	96
98) 1,3,5-Trimethylbenzene	11.065	105	1772704	51.55	ug/L	99
99) tert-Butylbenzene	11.340	119	1500111	50.25	ug/L	97
100) 1,2,4-Trimethylbenzene	11.376	105	1840449	52.41	ug/L	96
102) sec-Butylbenzene	11.523	105	2111662	52.10	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8830.D
Acq On : 24 May 2015 9:20 pm
Operator : F.Naegler
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 08:40:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration

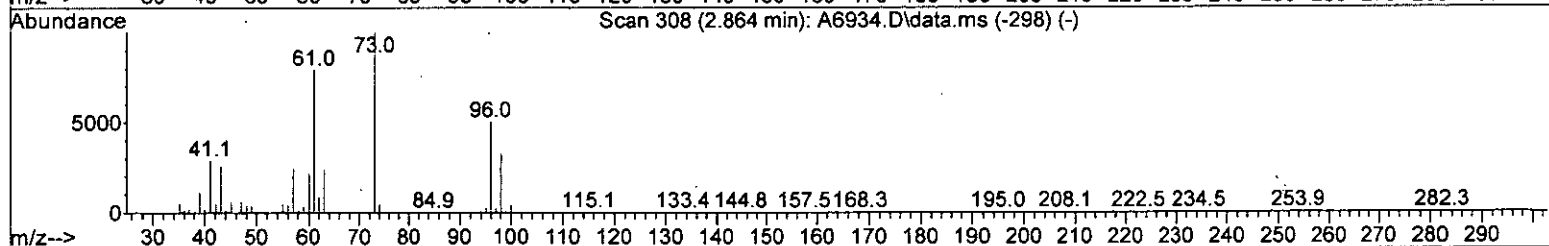
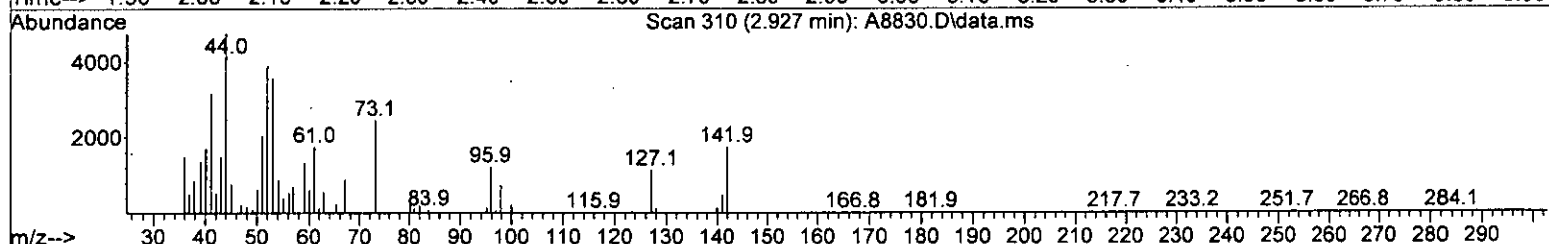
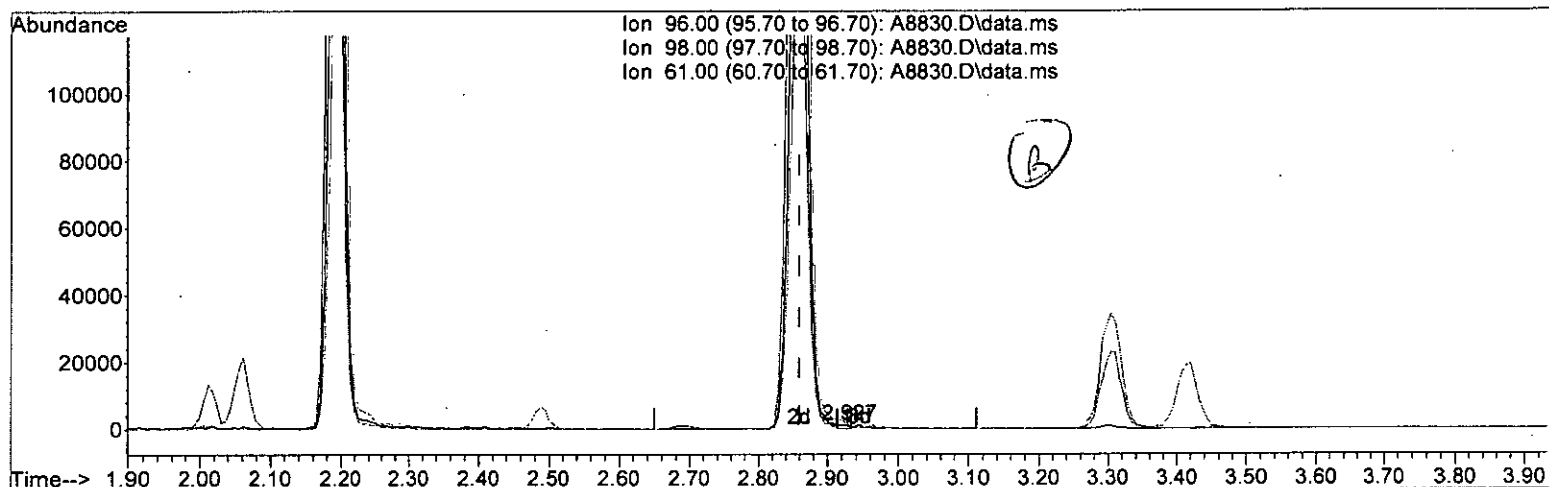
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) p-Isopropyltoluene	11.644	119	1862638	51.58	ug/L	98
104) 1,3-Dclbenz	11.602	146	1103526	48.30	ug/L	97
105) 1,4-Dclbenz	11.681	146	1142380	47.70	ug/L	97
108) n-Butylbenzene	11.980	91	1609212	50.46	ug/L	96
109) 1,2-Dclbenz	11.980	146	1054918	49.96	ug/L	96
110) 1,2-Dibromo-3-chloropr...	12.614	157	70300	48.55	ug/L	92
114) 1,2,4-Tcbenzene	13.266	180	626948	47.12	ug/L	98
115) Hexachlorobt	13.406	225	246580	44.76	ug/L	97
116) Naphthalen	13.461	128	1235154	49.54	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	528180	48.21	ug/L	96

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

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8830.D
Acq On : 24 May 2015 9:20 pm
Operator : F.Naegler
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 21:35:35 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8830.D\data.ms

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

2.927min (+0.067) 0.12 ug/L

response 997

Ion	Exp%	Act%
96.00	100	100
98.00	64.70	61.05
61.00	150.90	143.55
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8830.D

Acq On : 24 May 2015 9:20 pm

Operator : F.Naegler

Sample : CCV

Misc :

ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

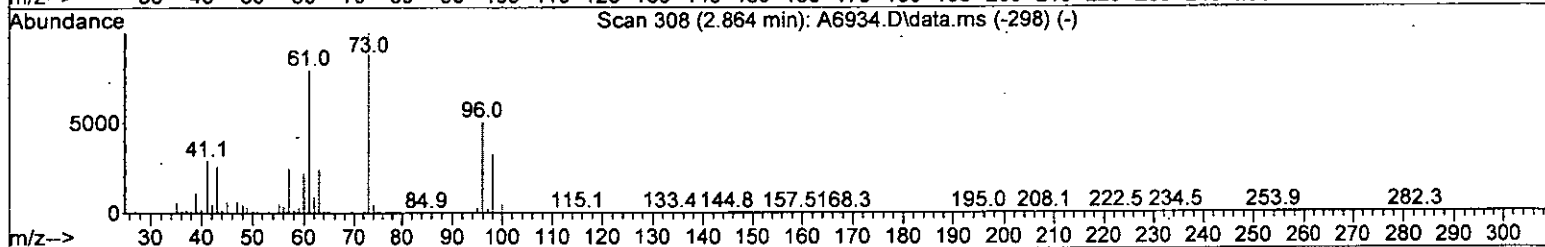
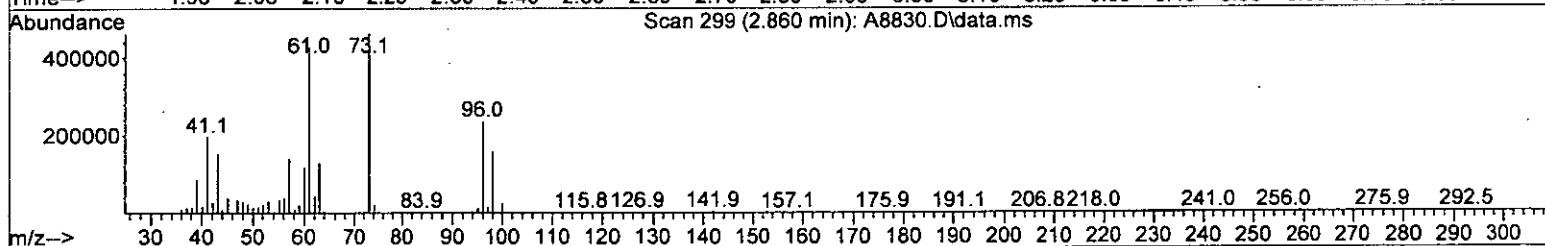
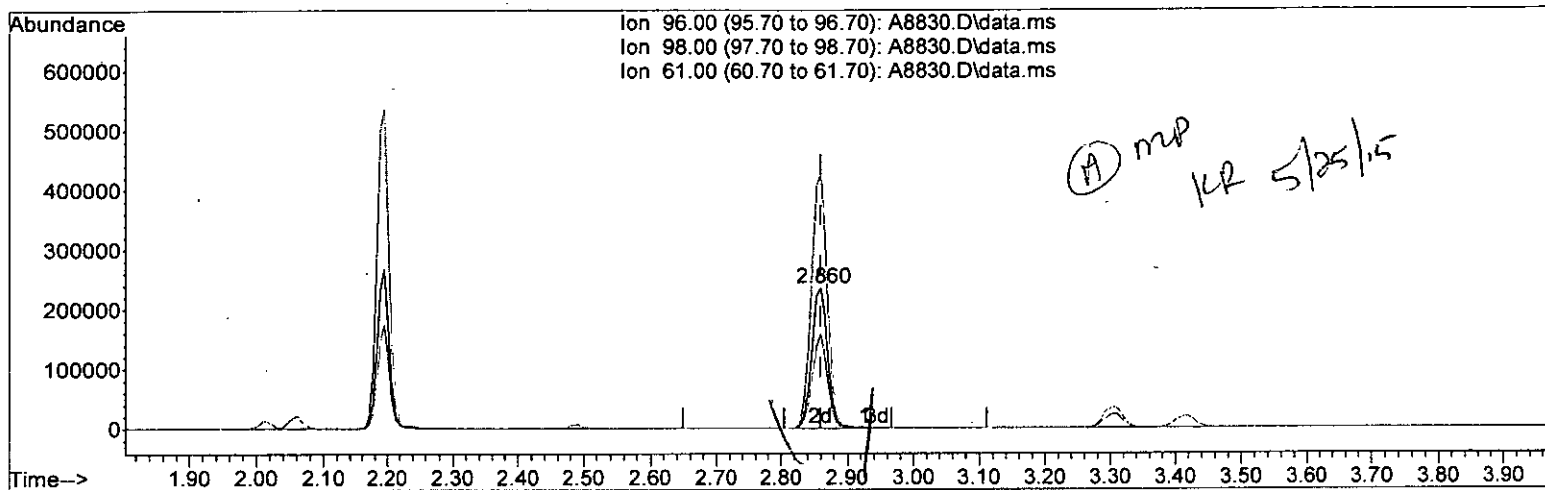
Quant Time: May 24 21:35:35 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



TIC: A8830.D\data.ms

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

2.860min (+0.000) 47.13 ug/L m

response 390167

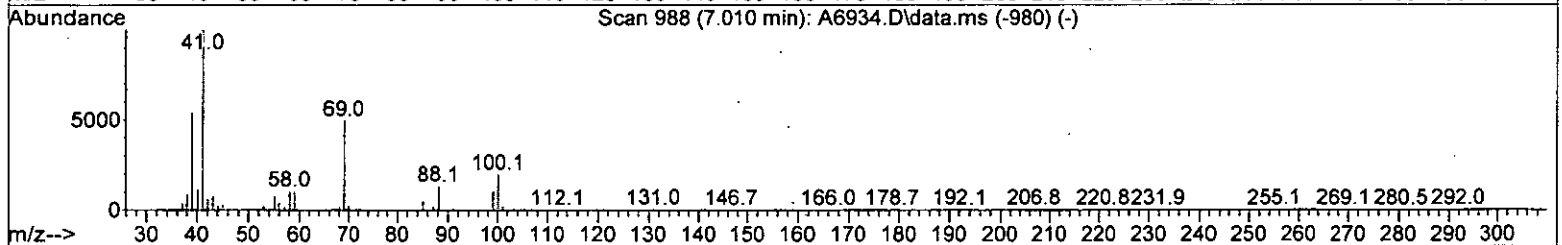
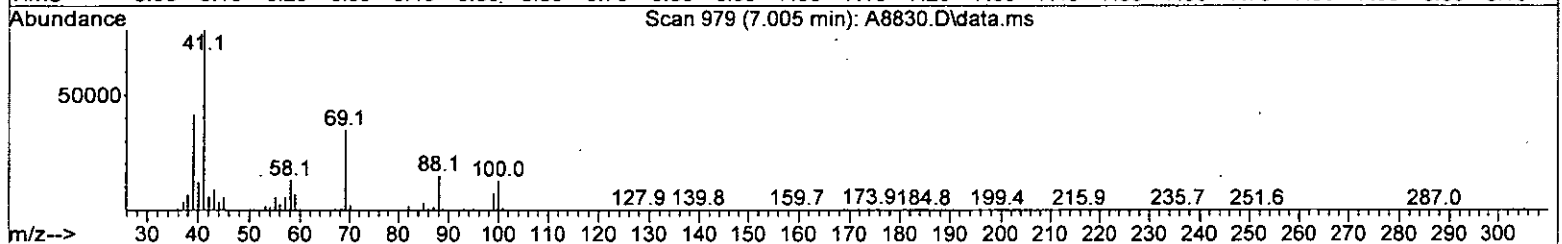
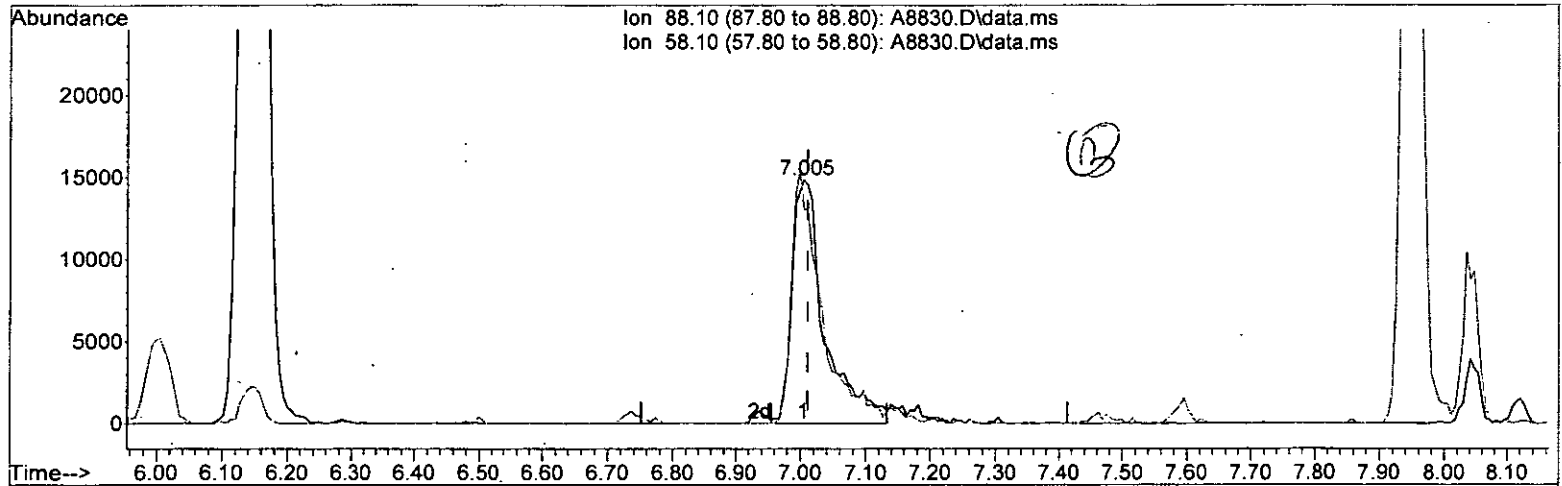
Ion	Exp%	Ad%
96.00	100	100
98.00	64.70	67.18
61.00	150.90	181.13#
0.00	0.00	0.00

mm
5/26

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8830.D
Acq On : 24 May 2015 9:20 pm
Operator : F.Naegler
Sample : CCV
Misc :
ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 21:35:35 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8830.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 924.69 ug/L

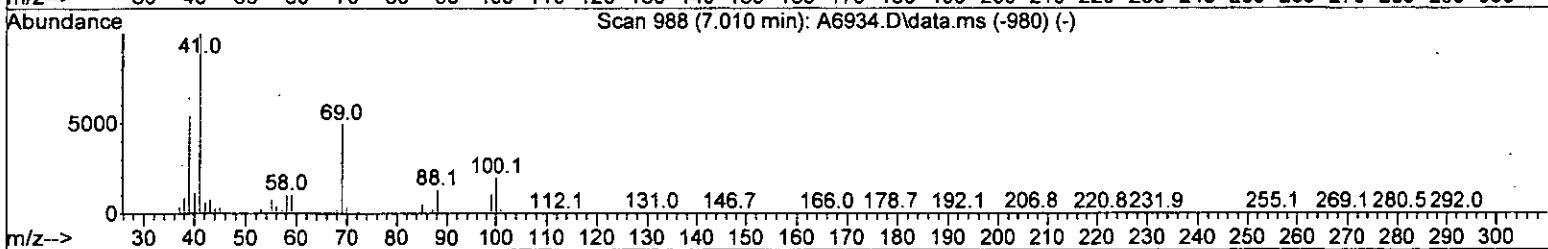
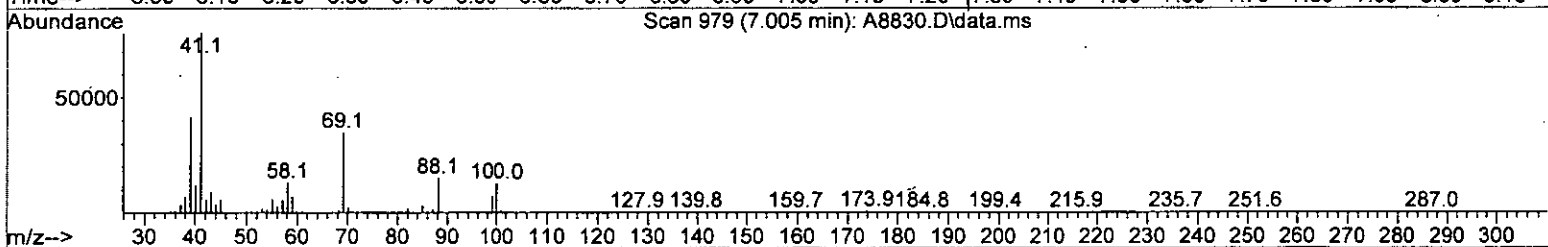
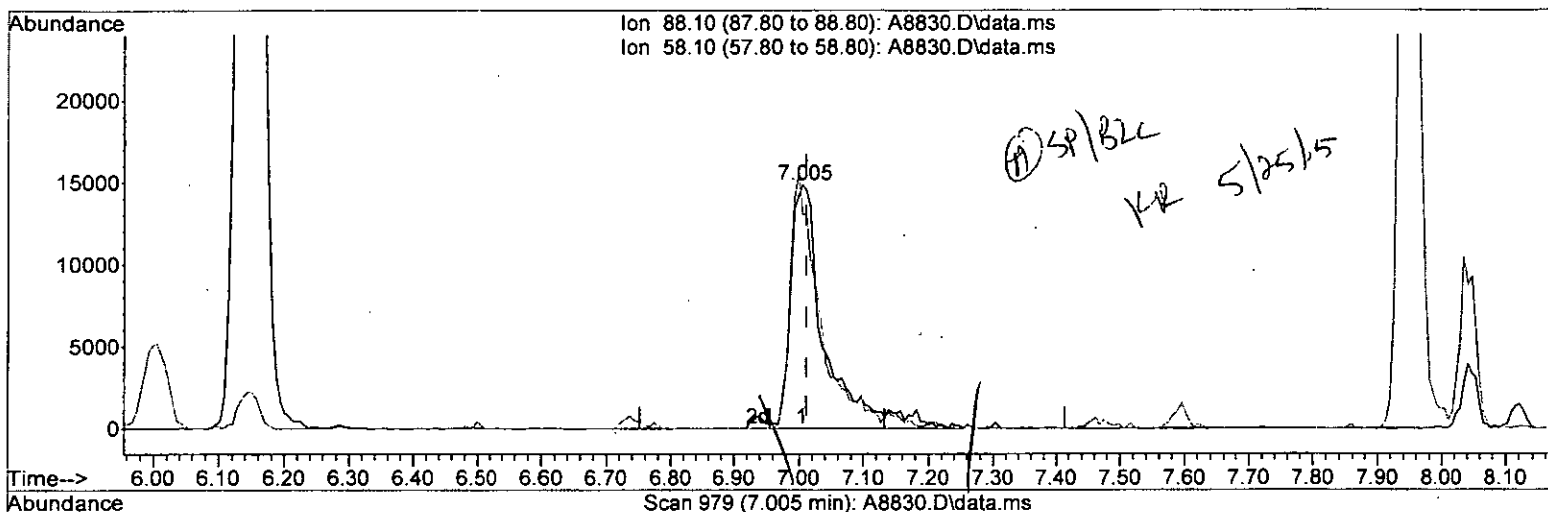
response 51211

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	87.61#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8830.D
 Acq On : 24 May 2015 9:20 pm
 Operator : F.Naegler
 Sample : CCV
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 21:35:35 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8830.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 988.72 ug/L m

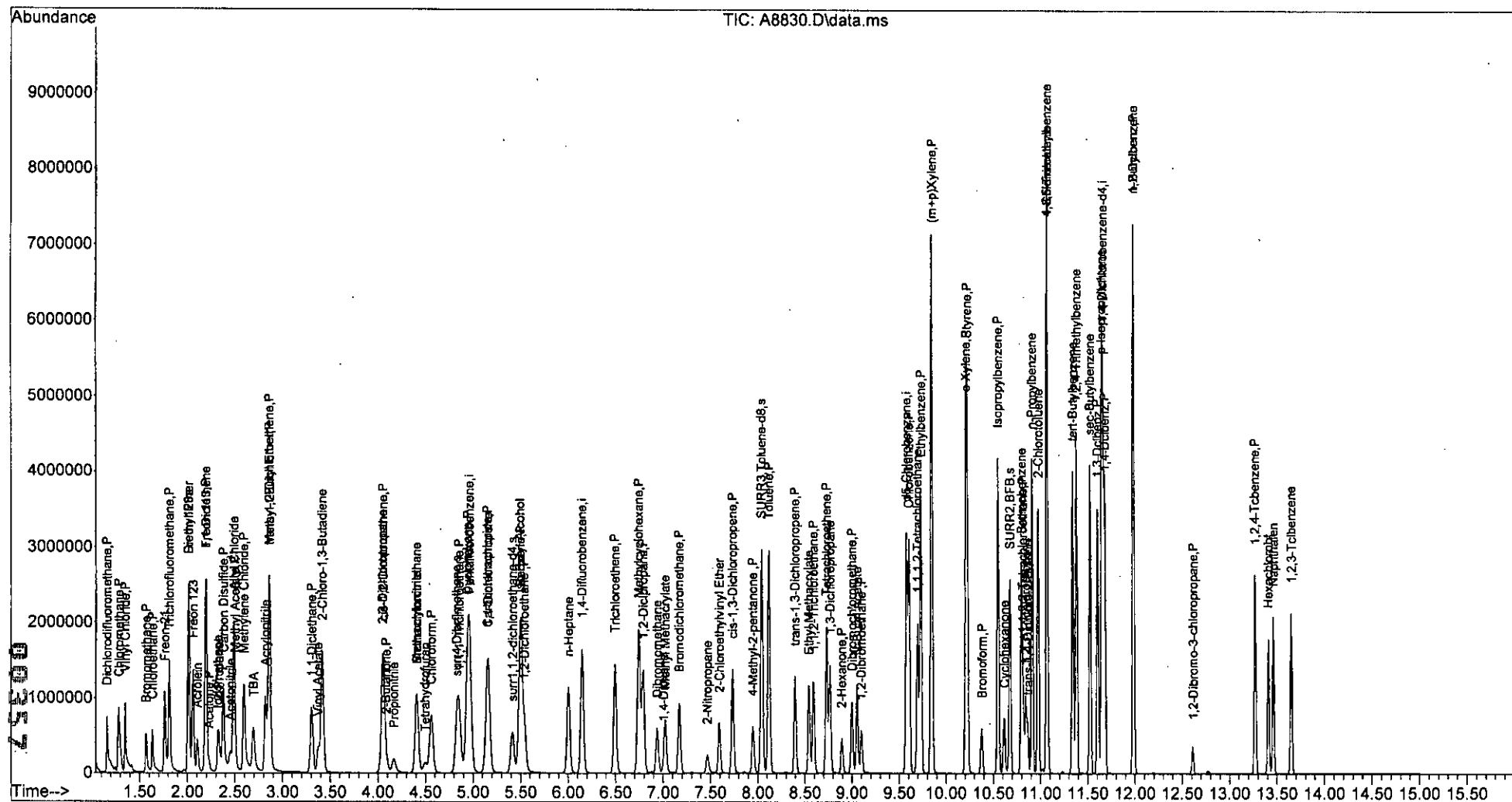
response 54757

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	87.61#
0.00	0.00	0.00
0.00	0.00	0.00

48/32L

Inst : MSVOA10

Quant Time: May 25 08:40:45 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862

Date Analyzed: 5/25/15

Continuing Calibration Verification Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Calibration Date: 5/6/15

Calibration ID: RC1500051

File ID: I:\ACQUDATA\MSVOA10\DATA\052515\A8852.D\

Analysis Lot: 446166

Units: µg/L

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	51.4	0.9504	0.9771	2.8	NA	± 20 %	Average RF
Vinyl Chloride	50.0	53.4	0.6923	0.7397	6.8	NA	± 20 %	Average RF
Chloroethane	50.0	52.0	0.3399	0.3532	3.9	NA	± 20 %	Average RF
Bromomethane	50.0	39.7	0.2864	0.2271	-20.7 *	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	52.3	0.3684	0.3851	4.5	NA	± 20 %	Average RF
Acetone	50.0	43.9	NA	NA	NA	-12.3	± 20 %	Quadratic
Carbon Disulfide	50.0	49.5	1.323	1.311	-0.9	NA	± 20 %	Average RF
Methylene Chloride	50.0	48.6	0.4520	0.4389	-2.9	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	51.1	0.4146	0.4238	2.2	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	48.5	0.9257	0.8979	-3.0	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.3	0.4970	0.4802	-3.4	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	46.1	0.2352	0.2170	-7.7	NA	± 20 %	Average RF
Chloroform	50.0	49.2	0.8234	0.8100	-1.6	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	49.9	0.7004	0.6990	-0.2	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	53.4	0.1235	0.1318	6.7	NA	± 20 %	Average RF
Benzene	50.0	49.3	1.253	1.236	-1.4	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	48.6	0.4326	0.4209	-2.7	NA	± 20 %	Average RF
Trichloroethene	50.0	50.1	0.3463	0.3471	0.2	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	48.9	0.3694	0.3612	-2.2	NA	± 20 %	Average RF
Bromodichloromethane	50.0	50.5	0.3893	0.3933	1.0	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	50.7	0.4412	0.4476	1.4	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	46.6	0.3164	0.2947	-6.9	NA	± 20 %	Average RF
Toluene	50.0	49.7	1.353	1.344	-0.7	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	50.1	0.3677	0.3683	0.2	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	47.6	0.2413	0.2296	-4.8	NA	± 20 %	Average RF
Tetrachloroethene	50.0	49.5	0.3005	0.2977	-0.9	NA	± 20 %	Average RF
2-Hexanone	50.0	48.7	0.2256	0.2199	-2.5	NA	± 20 %	Average RF
Dibromochloromethane	50.0	52.9	0.2981	0.3155	5.8	NA	± 20 %	Average RF
Chlorobenzene	50.0	51.9	0.9831	1.020	3.8	NA	± 20 %	Average RF
Ethylbenzene	50.0	52.9	0.5157	0.5455	5.8	NA	± 20 %	Average RF
m,p-Xylenes	100	108	0.6204	0.6696	7.9	NA	± 20 %	Average RF
o-Xylene	50.0	51.8	0.6155	0.6380	3.7	NA	± 20 %	Average RF
Styrene	50.0	53.8	1.042	1.122	7.6	NA	± 20 %	Average RF
Bromoform	50.0	52.4	0.1624	0.1701	4.8	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	51.7	0.5106	0.5283	3.5	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	47.9	0.4834	0.4630	-4.2	NA	± 20 %	Average RF
Toluene-d8	50.0	49.4	1.190	1.175	-1.3	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	50.3	0.3120	0.3138	0.6	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

(12) 5/25/15

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	101 0.00
2 P	Dichlorodifluoromethane	0.5192	0.6200	-19.4	111 0.00
3 P	Chloromethane	0.9504	0.9771	-2.8	102 0.00
4 P	Vinyl Chloride	0.6923	0.7397	-6.8	107 0.00
5 P	Bromomethane	0.2864	0.2271	20.7#	84 0.00 (X)
6 P	Chloroethane	0.3399	0.3532	-3.9	108 0.00
7	Freon 21	0.8305	0.9063	-9.1	104 0.00
8 P	Trichlorofluoromethane	0.6683	0.7327	-9.6	109 0.00
9	Diethyl Ether	0.4025	0.4030	-0.1	98 0.00
10	Freon 123a	0.5071	0.5464	-7.7	105 0.00
11	Freon 123	0.5610	0.5996	-6.9	108 0.00
12	Acrolein	0.0756	0.0662	12.4	87 0.00
13	1,1-Dichloroethene	0.3684	0.3851	-4.5	108 0.00
14 P	Freon 113	0.3854	0.4143	-7.5	111 0.00
15 P	Acetone	0.1691	0.1301	12.3 23.1#	93 0.00 (X) (12)
16	2-Propanol	0.0262	0.0262	0.0	97 0.00
17	Iodomethane	0.5455	0.2778	49.1#	49# 0.00 (X)
18 P	Carbon Disulfide	1.3232	1.3110	0.9	101 0.00
19	Acetonitrile	0.0230	0.0239	-3.9	106 0.00
20	Allyl Chloride	0.2397	0.2578	-7.6	107 0.00
21 P	Methyl Acetate	0.3642	0.3642	0.0	105 0.00
22 P	Methylene Chloride	0.4520	0.4389	2.9	103 0.00
23	TBA	0.0336	0.0312	7.1	97 0.00
24	Acrylonitrile	0.1616	0.1603	0.8	99 0.00
25 P	Methyl-t-Butyl Ether	1.0534	0.9632	8.6	94 0.00
26 P	trans-1,2-Dichloroethene	0.4146	0.4238	-2.2	105 0.00
27 P	1,1-Dichloroethane	0.9257	0.8979	3.0	98 0.00
28	Vinyl Acetate	0.0747	0.0662	11.4	92 0.00
29	DIPE	2.5377	0.0015	99.9#	0# 0.00
30	2-Chloro-1,3-Butadiene	0.7766	1.1647	-8.2	105 0.00
31	ETBE	1.7332	0.0000	100.0#	0# -3.88#
32	2,2-Dichloropropane	0.5982	0.6156	-2.9	105 0.00
33 P	cis-1,2-Dichloroethene	0.4970	0.4802	3.4	99 0.00
34 P	2-Butanone	0.2352	0.2170	7.7	96 0.00
35	Propionitrile	0.0584	0.0529	9.4	91 0.00
36	Bromochloromethane	0.3056	0.2875	5.9	95 0.00
37	Methacrylonitrile	0.1379	0.1243	9.9	92 0.00
38	Tetrahydrofuran	0.1454	0.1324	8.9	95 0.00
39 P	Chloroform	0.8234	0.8100	1.6	100 0.00
40 P	1,1,1-Trichloroethane	0.7004	0.6990	0.2	101 0.00
41 i	1,4-Difluorobenzene	1.0000	1.0000	0.0	99 0.00
42 P	Cyclohexane	0.4754	0.4929	-3.7	103 0.00
43 s	surr4,Dibrflmethane	0.3120	0.3138	-0.6	103 0.00
44 P	Carbontetrachloride	0.1235	0.1318	-6.7	106 0.00
45	1,1-Dichloropropene	0.4042	0.4065	-0.6	101 0.00
46 s	surr1,1,2-dichloroethane-d4	0.3206	0.3238	-1.0	103 0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	1.2531	1.2355	1.4	100	0.00
48 P	1,2-Dichloroethane	0.4326	0.4209	2.7	96	0.00
49	Iso-Butyl Alcohol	0.0130	0.0113	13.1	94	0.00
50	~~TAME~~	~~0.7222~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~5.74#~~
51	n-Heptane	0.5448	0.5623	-3.2	102	0.00
52	~~1-Butanol~~	~~0.0058~~	~~0.0000~~	~~100.0#~~	~~0#~~	~~6.52#~~
53 P	Trichloroethene	0.3463	0.3471	-0.2	101	0.00
54 P	Methylcyclohexane	0.5121	0.5312	-3.7	103	0.00
55 P	1,2-Dichloropropane	0.3694	0.3612	2.2	100	0.00
56	Dibromomethane	0.1625	0.1587	2.3	101	0.00
57	1,4-Dioxane	0.0018	0.0019	-5.6	110	0.00
58	Methyl Methacrylate	0.1455	0.1333	8.4	89	0.00
59 P	Bromodichloromethane	0.3893	0.3933	-1.0	101	0.00
60	2-Nitropropane	0.0426	0.0505	-18.5	123	0.00
61	2-Chloroethylvinyl Ether	0.1728	0.1560	9.7	88	0.00
62 P	cis-1,3-Dichloropropene	0.4412	0.4476	-1.5	97	0.00
63 P	4-Methyl-2-pentanone	0.3164	0.2947	6.9	91	0.00
64 s	SURR3,Toluene-d8	1.1896	1.1746	1.3	99	0.00
65 P	Toluene	1.3531	1.3440	0.7	100	0.00
66 P	trans-1,3-Dichloropropene	0.3677	0.3683	-0.2	96	0.00
67	Ethyl Methacrylate	0.2898	0.2849	1.7	94	0.00
68 P	1,1,2-Trichloroethane	0.2413	0.2296	4.8	97	0.00
69 s	SURR2,BFB	0.4834	0.4630	4.2	95	0.00
70 i	d5-Chlorobenzene	1.0000	1.0000	0.0	96	0.00
71 P	Tetrachloroethene	0.3005	0.2977	0.9	100	0.00
72 P	2-Hexanone	0.2256	0.2199	2.5	93	0.00
73	1,3-Dichloropropane	0.4369	0.4335	0.8	98	0.00
74 P	Dibromochloromethane	0.2981	0.3155	-5.8	99	0.00
75	N-Butyl Acetate	0.5418	0.5630	-3.9	95	0.00
76 P	1,2-Dibromoethane	0.2435	0.2485	-2.1	99	0.00
77	3-Chlorobenzotrifluoride	0.5472	0.5761	-5.3	101	0.00
78 P	Chlorobenzene	0.9831	1.0203	-3.8	100	0.00
79	4-Chlorobenzotrifluoride	0.4816	0.5165	-7.2	101	0.00
80	1,1,1,2-Tetrachloroethane	0.3366	0.3530	-4.9	99	0.00
81 P	Ethylbenzene	0.5157	0.5455	-5.8	103	0.00
82 P	(m+p)Xylene	0.6204	0.6696	-7.9	100	0.00
83 P	o-Xylene	0.6155	0.6380	-3.7	99	0.00
84 P	Styrene	1.0423	1.1216	-7.6	98	0.00
85 P	Bromoform	0.1624	0.1701	-4.7	95	0.00
86	2-Chlorobenzotrifluoride	0.5181	0.5584	-7.8	99	0.00
87 P	Isopropylbenzene	1.5120	1.6552	-9.5	98	0.00
88	Cyclohexanone	0.0161	0.0255	-58.4#	162	0.00
89	trans-1,4-Dichloro-2-Butene	0.1091	0.0976	10.5	89	0.00
90 i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	94	0.00
91 P	1,1,2,2-Tetrachloroethane	0.5106	0.5283	-3.5	96	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
 Data File : A8852.D
 Acq On : 25 May 2015 8:57 am
 Operator : K.Ruest
 Sample : CCV Inst : MSVOA10
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 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	0.7243	0.7303	-0.8	98 0.00
93	1,2,3-Trichloropropane	0.1503	0.1407	6.4	94 0.00
94	n-Propylbenzene	2.9707	3.3839	-13.9	100 0.00
95	2-Chlorotoluene	1.8626	1.9749	-6.0	98 0.00
96	3-Chlorotoluene	1.9669	2.1341	-8.5	97 0.00
97	4-Chlorotoluene	2.2203	2.3788	-7.1	97 0.00
98	1,3,5-Trimethylbenzene	2.2186	2.4399	-10.0	96 0.00
99	tert-Butylbenzene	1.9260	2.0484	-6.4	96 0.00
100	1,2,4-Trimethylbenzene	2.2658	2.4934	-10.0	97 0.00
101	3,4-Dichlorobenzotrifluorid	0.6591	0.7049	-6.9	96 0.00
102	sec-Butylbenzene	2.6151	2.8867	-10.4	96 0.00
103	p-Isopropyltoluene	2.3299	2.5770	-10.6	96 0.00
104 P	1,3-Dclbenz	1.4741	1.4999	-1.8	95 0.00
105 P	1,4-Dclbenz	1.5453	1.5552	-0.6	96 0.00
106	2,4-Dichlorobenzotrifluorid	0.6183	0.6472	-4.7	97 0.00
107	2,5-Dichlorobenzotrifluorid	0.7008	0.7232	-3.2	96 0.00
108	n-Butylbenzene	2.0576	2.2396	-8.8	95 0.00
109 P	1,2-Dclbenz	1.3624	1.3870	-1.8	95 0.00
110 P	1,2-Dibromo-3-chloropropane	0.0934	0.0915	2.0	97 0.00
111	Trielution Dichlorotoluene	1.1680	1.3055	-11.8	95 0.00
112	1,3,5-Trichlorobenzene	0.9978	1.0482	-5.1	95 0.00
113	Coelution Dichlorotoluene	1.2478	1.3926	-11.6	94 0.00
114 P	1,2,4-Tcbenzene	0.8584	0.8632	-0.6	92 0.00
115	Hexachlorobt	0.3554	0.3625	-2.0	97 0.00
116	Naphthalen	1.6087	1.6571	-3.0	92 0.00
117	1,2,3-Tclbenzene	0.7069	0.7226	-2.2	93 0.00
118	2,4,5-Trichlorotoluene	0.5213	0.5466	-4.9	89 0.00
119	2,3,6-Trichlorotoluene	0.4556	0.4868	-6.8	95 0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV *PQ1504534-02, 5539-02*

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	967237	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1458844	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1345766	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	777811	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	457826	50.29	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	100.58%
46) surr1,1,2-dichloroetha...	5.414	65	472350	50.49	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	100.98%
64) SURR3,Toluene-d8	8.042	98	1713623	49.37	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.74%
69) SURR2,BFB	10.675	95	675499	47.89	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	95.78%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	599687m	59.71	ug/L	
3) Chloromethane	1.281	50	945105	51.40	ug/L	100
4) Vinyl Chloride	1.354	62	715497	53.42	ug/L	97
5) Bromomethane	1.573	94	219685	39.65	ug/L	97
6) Chloroethane	1.640	64	341632	51.95	ug/L	91
7) Freon 21	1.762	67	876634	54.56	ug/L	100
8) Trichlorofluoromethane	1.811	101	708704	54.82	ug/L	99
9) Diethyl Ether	2.012	59	389844m	50.06	ug/L	
10) Freon 123a	2.012	67	528471	53.88	ug/L	92
11) Freon 123	2.061	83	579915	53.43	ug/L	81
12) Acrolein	2.110	56	319932	218.74	ug/L	94
13) 1,1-Dicethene	2.195	96	372436	52.26	ug/L #	80
14) Freon 113	2.195	101	400711	53.75	ug/L	94
15) Acetone	2.226	43	125863	43.87	ug/L	96
16) 2-Propanol	2.329	45	506991	999.75	ug/L	92
17) Iodomethane	2.323	142	268700	25.46	ug/L	98
18) Carbon Disulfide	2.378	76	1268059	49.54	ug/L	99
19) Acetonitrile	2.451	40	115704	259.51	ug/L	98
20) Allyl Chloride	2.488	76	249361	53.78	ug/L #	23
21) Methyl Acetate	2.506	43	352260	50.00	ug/L	83
22) Methylene Chloride	2.598	84	424553	48.56	ug/L #	64
23) TBA	2.695	59	602861	928.08	ug/L	61
24) Acrylonitrile	2.823	53	775379	247.96	ug/L	98
25) Methyl-t-Butyl Ether	2.866	73	931636	45.72	ug/L	87
26) trans-1,2-Dichloroethene	2.860	96	409881	51.10	ug/L #	82
27) 1,1-Dicethane	3.305	63	868493	48.50	ug/L	99
28) Vinyl Acetate	3.378	86	64079	44.37	ug/L #	76
30) 2-Chloro-1,3-Butadiene	3.421	53	1126498	54.09	ug/L	85
32) 2,2-Dichloropropane	4.055	77	595391	51.45	ug/L	98
33) cis-1,2-Dichloroethene	4.055	96	464452	48.31	ug/L #	84
34) 2-Butanone	4.091	43	209882	46.13	ug/L	89
35) Propionitrile	4.164	54	255957	226.66	ug/L	97
36) Bromochloromethane	4.408	130	278109	47.05	ug/L #	69
37) Methacrylonitrile	4.408	67	120186	45.05	ug/L #	35

*YR
5/25/15*

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.494	42	128049	45.53	ug/L	75
39) Chloroform	4.561	83	783496	49.19	ug/L	95
40) 1,1,1-Trichloroethane	4.859	97	676097	49.90	ug/L	96
42) Cyclohexane	4.951	41	719137	51.84	ug/L	92
44) Carbontetrachloride	5.152	121	192312	53.36	ug/L	86
45) 1,1-Dichloropropene	5.158	75	593078	50.29	ug/L	95
47) Benzene	5.499	78	1802457	49.30	ug/L	84
48) 1,2-Dichloroethane	5.542	62	613978	48.64	ug/L	89
49) Iso-Butyl Alcohol	5.493	43	329732	869.55	ug/L	86
51) n-Heptane	6.005	43	820332	51.61	ug/L #	78
53) Trichloroethene	6.493	130	506309	50.12	ug/L	94
54) Methylcyclohexane	6.749	55	774899	51.87	ug/L #	79
55) 1,2-Dichloropropane	6.792	63	526890	48.88	ug/L	92
56) Dibromomethane	6.938	93	231491	48.82	ug/L	99
57) 1,4-Dioxane	7.005	88	54412m	1011.64	ug/L	
58) Methyl Methacrylate	7.024	69	194495	45.81	ug/L #	57
59) Bromodichloromethane	7.170	83	573809	50.52	ug/L	99
60) 2-Nitropropane	7.469	41	147209	118.35	ug/L	88
61) 2-Chloroethylvinyl Ether	7.597	63	227557	45.15	ug/L	91
62) cis-1,3-Dichloropropene	7.737	75	652941	50.72	ug/L	95
63) 4-Methyl-2-pentanone	7.950	43	429903	46.57	ug/L	90
65) Toluene	8.121	91	1960681	49.66	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	537328	50.08	ug/L	99
67) Ethyl Methacrylate	8.542	69	415560	49.15	ug/L #	55
68) 1,1,2-Trichloroethane	8.590	97	334941	47.58	ug/L	93
71) Tetrachloroethene	8.731	164	400605	49.53	ug/L	96
72) 2-Hexanone	8.895	43	295916	48.74	ug/L	87
73) 1,3-Dichloropropane	8.767	76	583456	49.62	ug/L #	73
74) Dibromochloromethane	8.999	129	424529	52.90	ug/L	98
75) N-Butyl Acetate	9.054	43	757624	51.96	ug/L	92
76) 1,2-Dibromoethane	9.096	107	334429	51.03	ug/L	95
77) 3-Chlorobenzotrifluoride	9.627	180	775333	52.64	ug/L	98
78) Chlorobenzene	9.602	112	1373043	51.89	ug/L	99
79) 4-Chlorobenzotrifluoride	9.682	180	695152	53.62	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.694	131	475000	52.43	ug/L	98
81) Ethylbenzene	9.730	106	734082	52.89	ug/L	94
82) (m+p)Xylene	9.846	106	1802175	107.93	ug/L	92
83) o-Xylene	10.206	106	858588	51.83	ug/L	98
84) Styrene	10.218	104	1509430	53.81	ug/L	98
85) Bromoform	10.377	173	228949	52.39	ug/L	99
86) 2-Chlorobenzotrifluoride	10.456	180	751483	53.89	ug/L	91
87) Isopropylbenzene	10.547	105	2227477	54.73	ug/L	100
88) Cyclohexanone	10.614	55	686414	1583.40	ug/L	96
89) trans-1,4-Dichloro-2-B...	10.864	53	131312	44.72	ug/L	81
91) 1,1,2,2-Tetrachloroethane	10.809	83	410898	51.73	ug/L	99
92) Bromobenzene	10.797	156	568014	50.41	ug/L	93
93) 1,2,3-Trichloropropane	10.840	110	109406	46.79	ug/L #	78
94) n-Propylbenzene	10.907	91	2631998	56.95	ug/L	99
95) 2-Chlorotoluene	10.974	91	1536061	53.01	ug/L	97
96) 3-Chlorotoluene	11.029	91	1659904	54.25	ug/L	97
97) 4-Chlorotoluene	11.065	91	1850260	53.57	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 1,3,5-Trimethylbenzene	11.065	105	1897777	54.99	ug/L	97
99) tert-Butylbenzene	11.340	119	1593305	53.18	ug/L	97
100) 1,2,4-Trimethylbenzene	11.376	105	1939363	55.02	ug/L	96
101) 3,4-Dichlorobenzotrifl...	11.443	214	548292	53.48	ug/L	99
102) sec-Butylbenzene	11.523	105	2245290	55.19	ug/L	97
103) p-Isopropyltoluene	11.645	119	2004397	55.30	ug/L	99
104) 1,3-Dclbenz	11.602	146	1166628	50.88	ug/L	97
105) 1,4-Dclbenz	11.681	146	1209686	50.32	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.736	214	503400	52.34	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.773	214	562503	51.60	ug/L	97
108) n-Butylbenzene	11.980	91	1741977	54.42	ug/L	97
109) 1,2-Dclbenz	11.986	146	1078807	50.90	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.614	157	71138	48.94	ug/L	94
111) Trielution Dichlorotol...	12.730	125	3046307	167.65	ug/L	97
112) 1,3,5-Trichlorobenzene	12.785	180	815268	52.52	ug/L	97
113) Coelution Dichlorotoluene	13.059	125	2166313	111.60	ug/L	94
114) 1,2,4-Tcbenzene	13.266	180	671382	50.28	ug/L	97
115) Hexachlorobt	13.406	225	281964	51.00	ug/L	97
116) Naphthalen	13.461	128	1288880	51.50	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	562011	51.11	ug/L	98
118) 2,4,5-Trichlorotoluene	14.236	159	425138	52.42	ug/L	98
119) 2,3,6-Trichlorotoluene	14.321	159	378676	53.43	ug/L	97

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

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

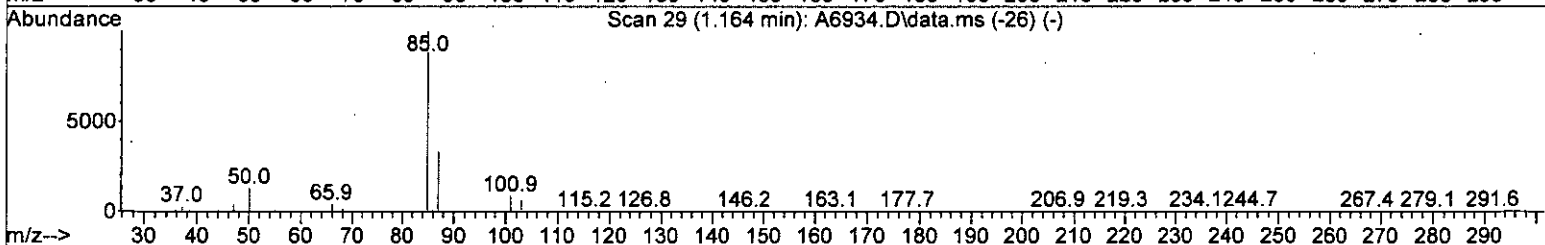
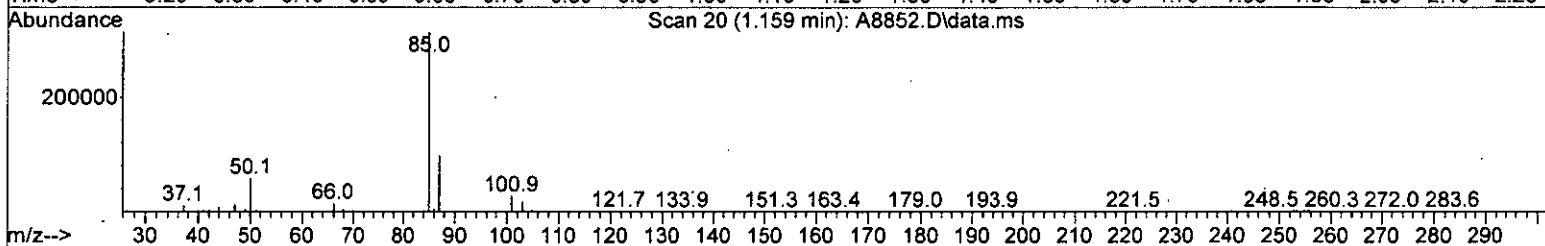
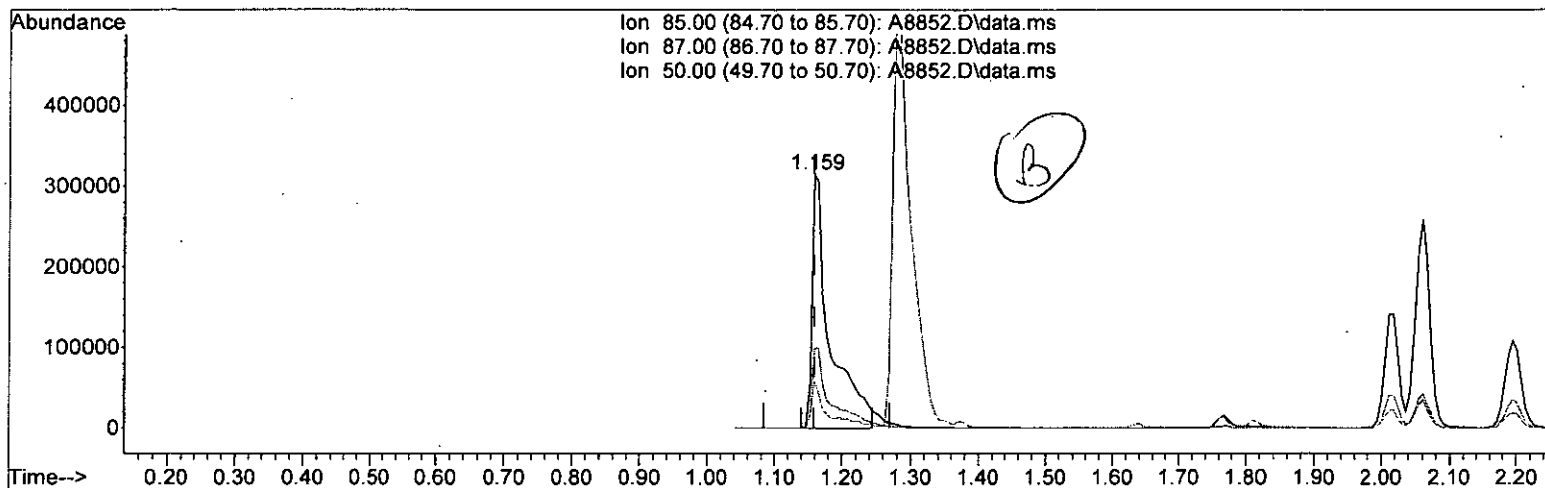
Quant Time: May 25 09:13:02 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



TIC: A8852.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 57.43 ug/L

response 576766

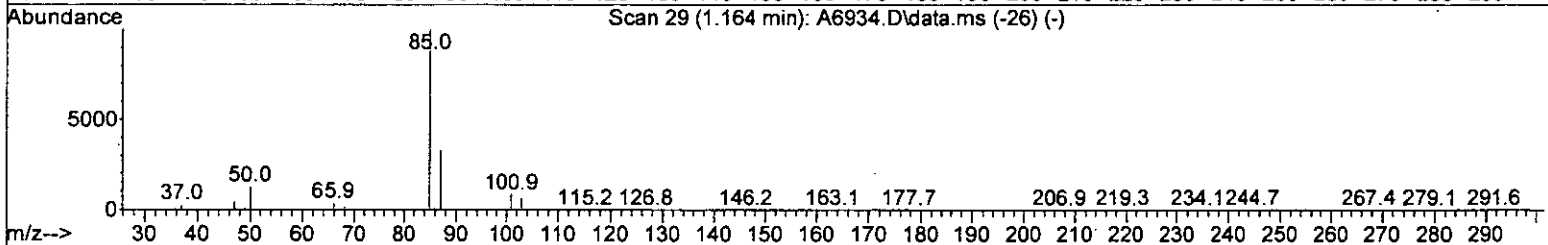
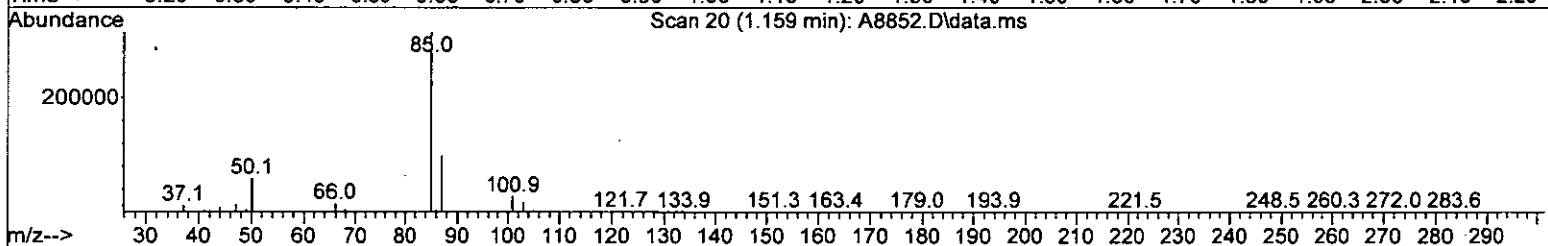
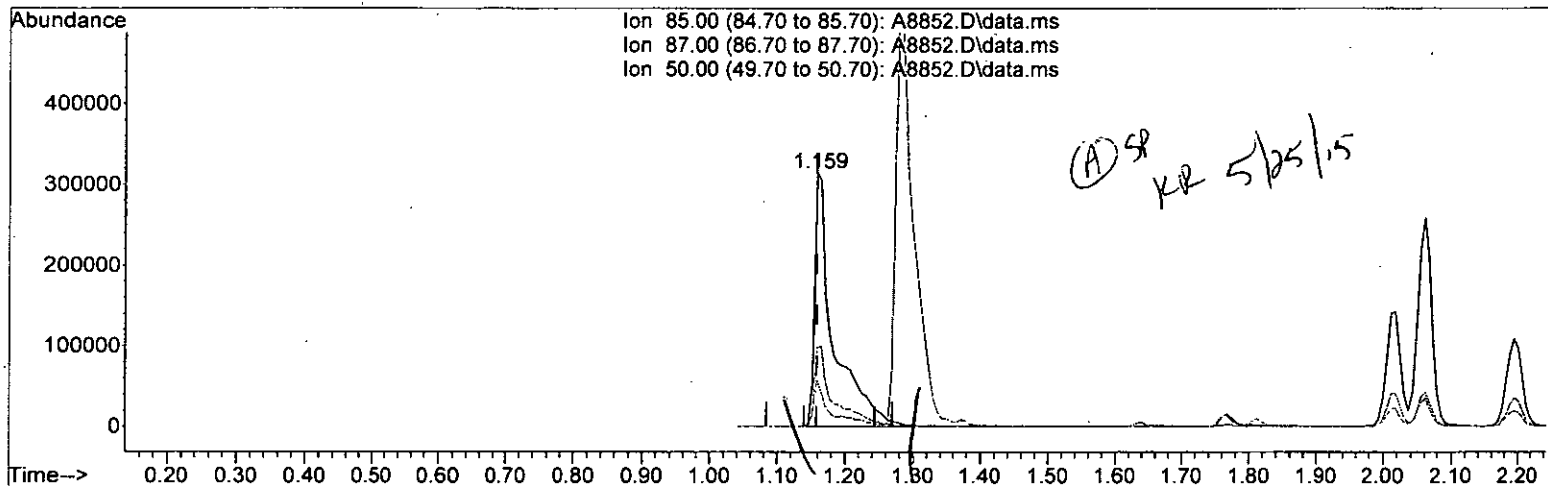
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.17
50.00	15.00	18.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8852.D
Acq On : 25 May 2015 8:57 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:13:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8852.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 59.71 ug/L m

response 599687

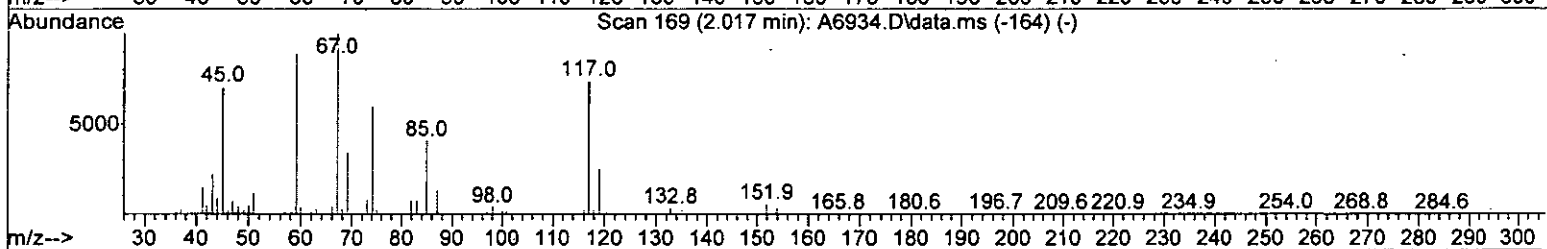
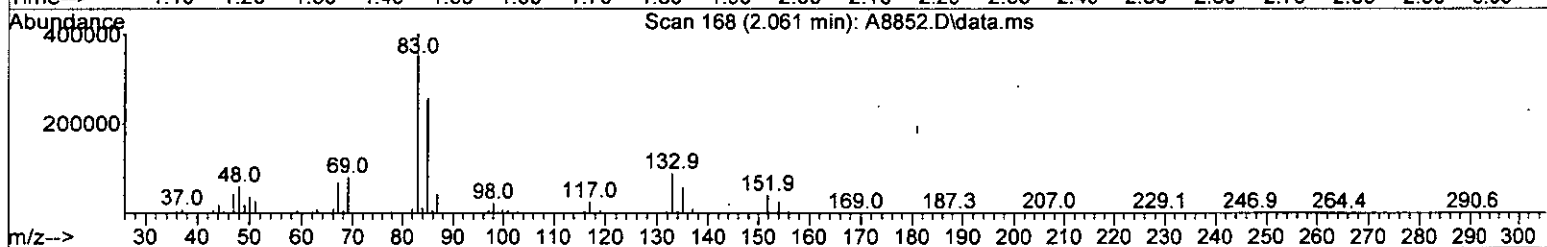
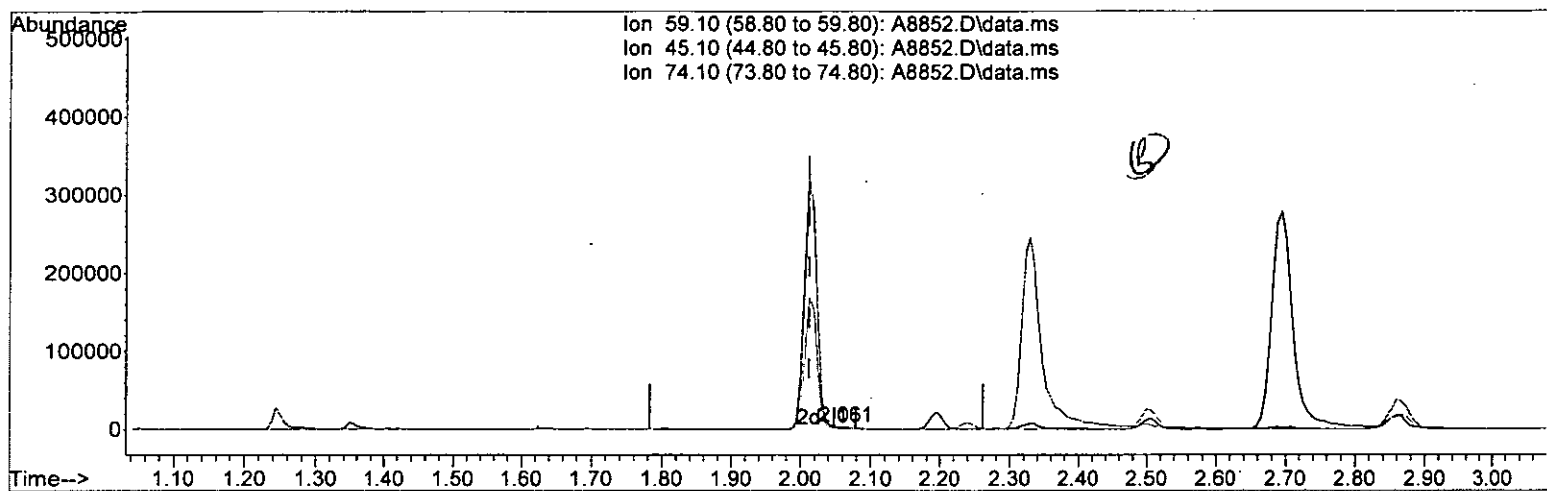
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.17
50.00	15.00	18.38
0.00	0.00	0.00

mm
5/27

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8852.D
Acq On : 25 May 2015 8:57 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:13:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8852.D\data.ms

(9) Diethyl Ether

2.061min (+0.049) 0.08 ug/L

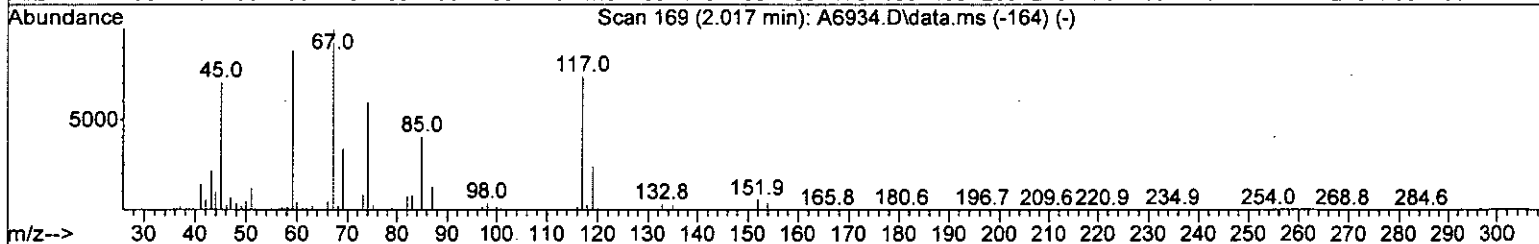
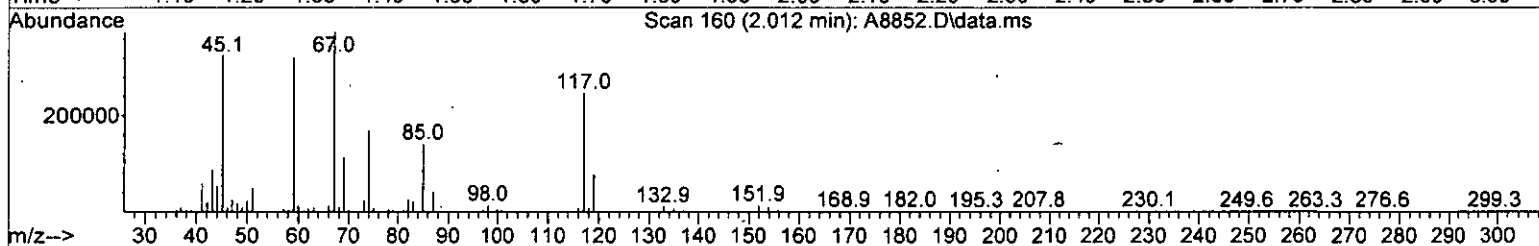
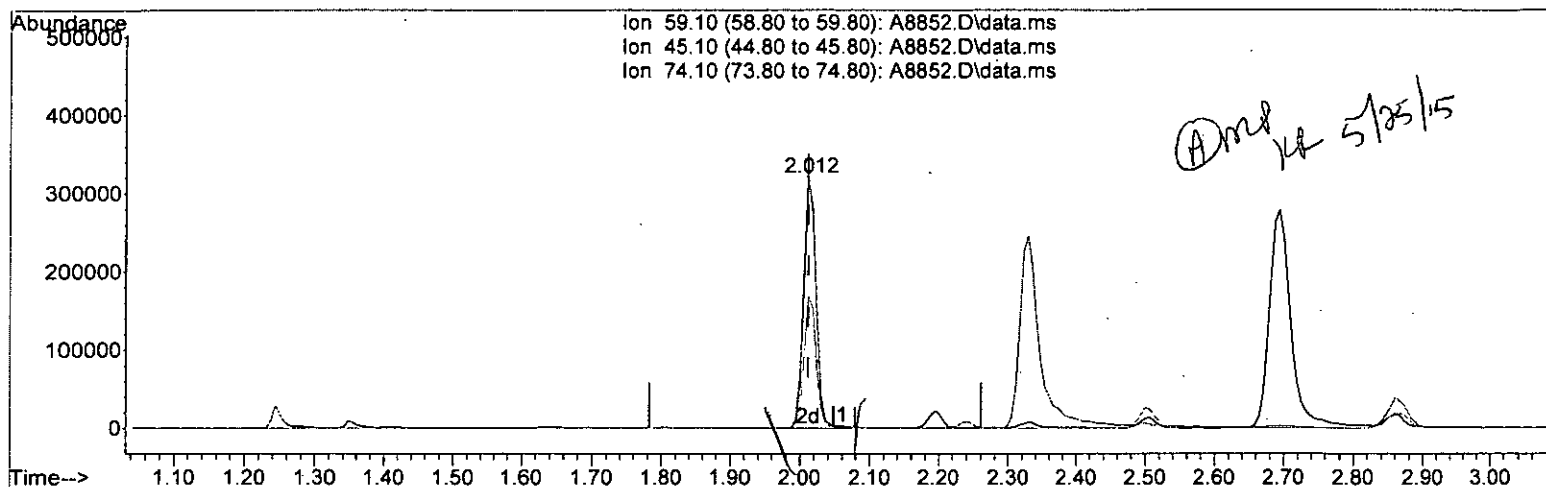
response 636

Ion	Exp%	Act%
59.10	100	100
45.10	73.90	80.15
74.10	64.70	45.28
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8852.D
Acq On : 25 May 2015 8:57 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:13:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8852.D\data.ms

(9) Diethyl Ether

2.012min (+0.000) 50.06 ug/L m

response 389844

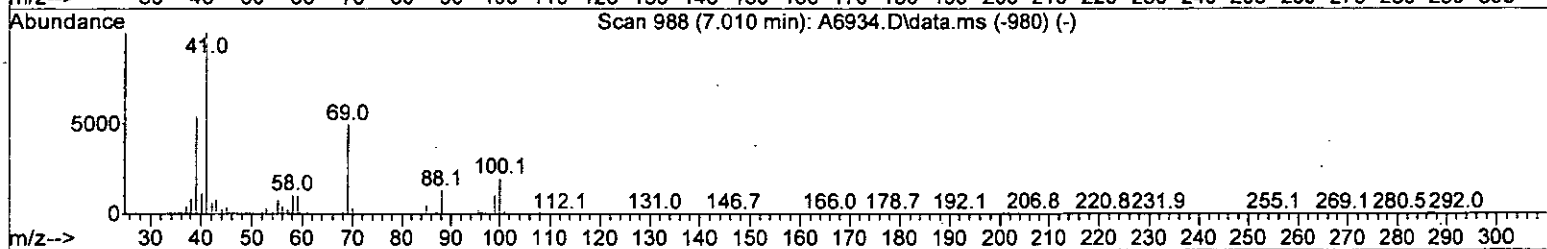
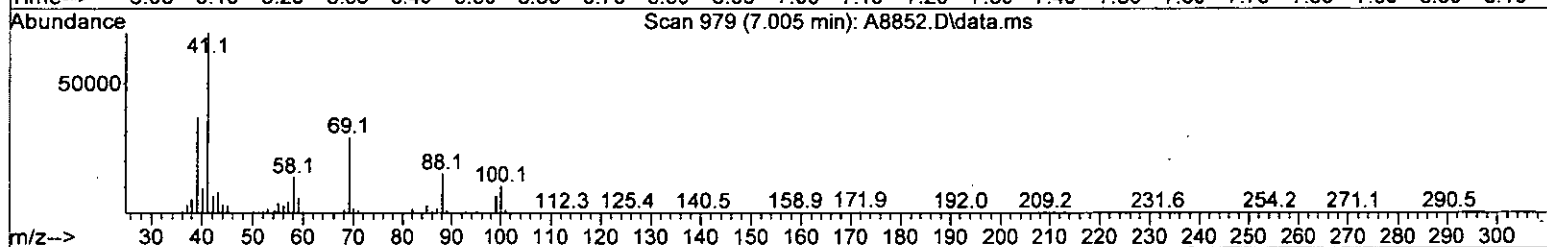
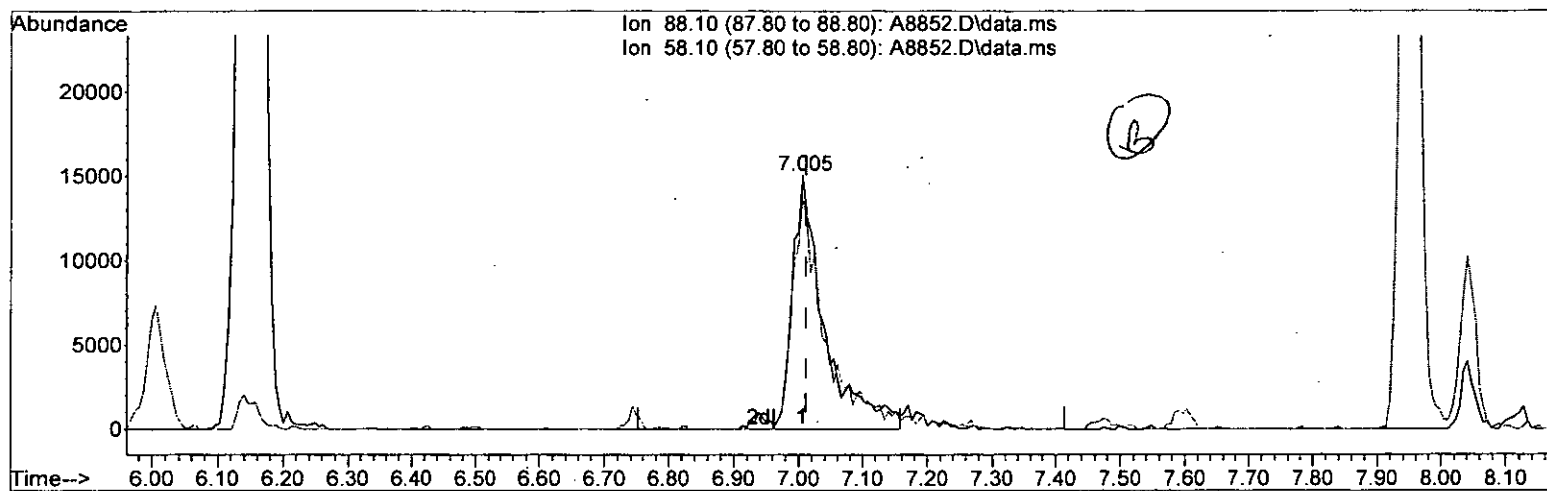
Ion	Exp%	Act%
59.10	100	100
45.10	73.90	101.34#
74.10	64.70	52.68
0.00	0.00	0.00

mw
ju

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8852.D
Acq On : 25 May 2015 8:57 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:13:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8852.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 947.89 ug/L

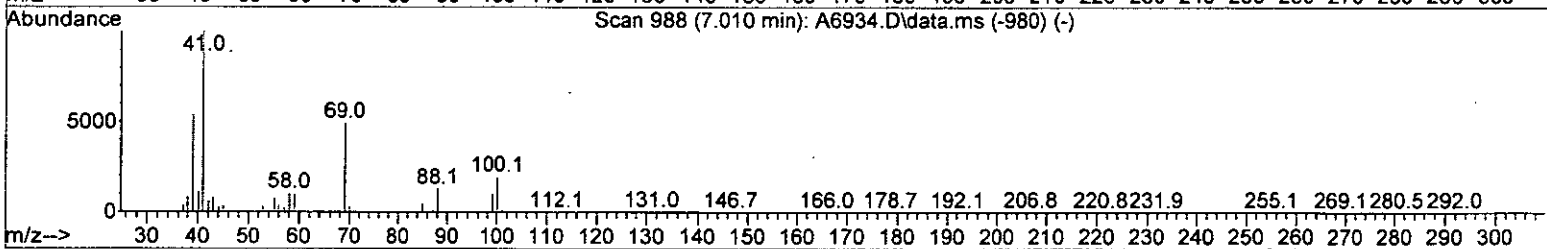
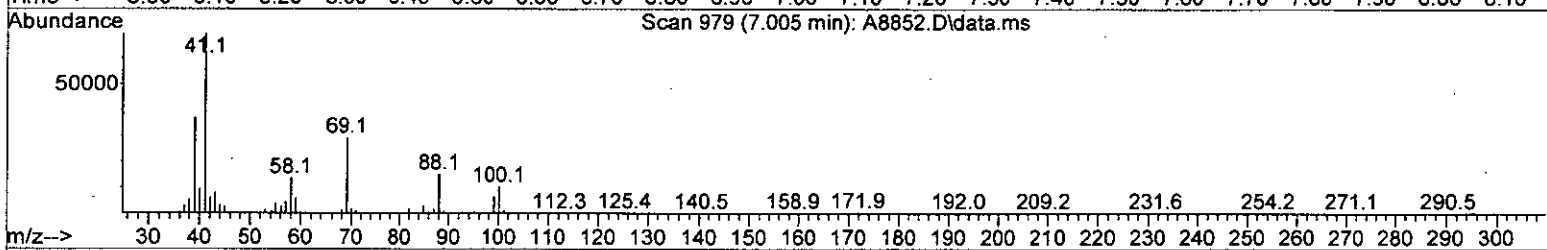
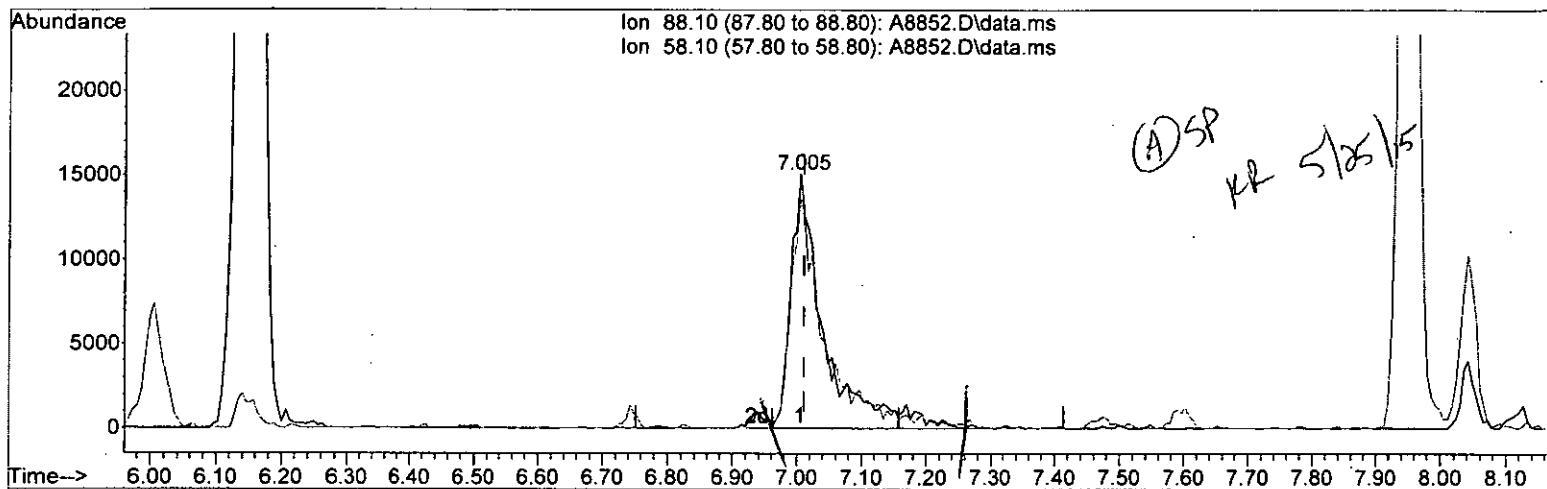
response 50983

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	89.98#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8852.D
Acq On : 25 May 2015 8:57 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:13:02 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8852.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 1011.64 ug/L m

response 54412

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	89.98#
0.00	0.00	0.00
0.00	0.00	0.00

aw 1/1

Quantitation Report

Inst : MSVOA10

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8852.D

Acq On : 25 May 2015 8:57 am

Operator : K.Ruest

Sample : CCV

Misc :

ALS Vial : 2 Sample Multiplier: 1

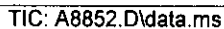
Quant Time: May 25 09:16:07 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
Date Analyzed: 5/26/15

**Continuing Calibration Verification Summary
 Volatile Organic Compounds by GC/MS**

Analytical Method: 8260C

Calibration Date: 5/6/15
Calibration ID: RC1500051
Analysis Lot: 446223
Units: µg/L

File ID: I:\ACQUDATA\msvoa10\data\052615\A8906.D\

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	49.5	0.9504	0.9399	-1.1	NA	± 20 %	Average RF
Vinyl Chloride	50.0	50.2	0.6923	0.6951	0.4	NA	± 20 %	Average RF
Chloroethane	50.0	51.1	0.3399	0.3473	2.2	NA	± 20 %	Average RF
Bromomethane	50.0	41.8	0.2864	0.2395	-16.4	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	49.9	0.3684	0.3676	-0.2	NA	± 20 %	Average RF
Acetone	50.0	46.0	NA	NA	NA	-7.9	± 20 %	Quadratic
Carbon Disulfide	50.0	51.1	1.323	1.353	2.3	NA	± 20 %	Average RF
Methylene Chloride	50.0	47.5	0.4520	0.4293	-5.0	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	49.6	0.4146	0.4110	-0.9	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	48.3	0.9257	0.8937	-3.5	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	48.7	0.4970	0.4840	-2.6	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	48.1	0.2352	0.2262	-3.8	NA	± 20 %	Average RF
Chloroform	50.0	48.7	0.8234	0.8026	-2.5	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	48.8	0.7004	0.6839	-2.4	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	50.6	0.1235	0.1251	1.2	NA	± 20 %	Average RF
Benzene	50.0	48.7	1.253	1.220	-2.6	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	49.2	0.4326	0.4258	-1.6	NA	± 20 %	Average RF
Trichloroethene	50.0	50.2	0.3463	0.3476	0.4	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	48.3	0.3694	0.3572	-3.3	NA	± 20 %	Average RF
Bromodichloromethane	50.0	49.4	0.3893	0.3842	-1.3	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	49.0	0.4412	0.4322	-2.0	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	48.3	0.3164	0.3056	-3.4	NA	± 20 %	Average RF
Toluene	50.0	48.0	1.353	1.298	-4.1	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	47.3	0.3677	0.3481	-5.3	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	46.9	0.2413	0.2261	-6.3	NA	± 20 %	Average RF
Tetrachloroethene	50.0	48.7	0.3005	0.2927	-2.6	NA	± 20 %	Average RF
2-Hexanone	50.0	50.6	0.2256	0.2282	1.2	NA	± 20 %	Average RF
Dibromochloromethane	50.0	53.8	0.2981	0.3208	7.6	NA	± 20 %	Average RF
Chlorobenzene	50.0	50.7	0.9831	0.9959	1.3	NA	± 20 %	Average RF
Ethylbenzene	50.0	50.3	0.5157	0.5184	0.5	NA	± 20 %	Average RF
m,p-Xylenes	100	105	0.6204	0.6521	5.1	NA	± 20 %	Average RF
o-Xylene	50.0	51.1	0.6155	0.6287	2.1	NA	± 20 %	Average RF
Styrene	50.0	53.3	1.042	1.111	6.6	NA	± 20 %	Average RF
Bromoform	50.0	52.2	0.1624	0.1696	4.4	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	48.7	0.5106	0.4968	-2.7	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	46.0	0.4834	0.4450	-7.9	NA	± 20 %	Average RF
Toluene-d8	50.0	47.9	1.190	1.140	-4.2	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	48.3	0.3120	0.3015	-3.4	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\052615\

Data File : A8906.D

Acq On : 26 May 2015 8:57 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 27 09:20:49 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

FL
5/27/15

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	104 0.00
2 P	Dichlorodifluoromethane	0.5192	0.5627	-8.4	104 0.00
3 P	Chloromethane	0.9504	0.9399	1.1	102 0.00
4 P	Vinyl Chloride	0.6923	0.6951	-0.4	104 0.00
5 P	Bromomethane	0.2864	0.2395	16.4	92 0.00
6 P	Chloroethane	0.3399	0.3473	-2.2	110 0.00
7	Freon 21	0.8305	0.8583	-3.3	102 0.00
8 P	Trichlorofluoromethane	0.6683	0.7130	-6.7	110 0.00
9	Diethyl Ether	0.4025	0.4149	-3.1	104 0.00
10	Freon 123a	0.5071	0.5117	-0.9	102 0.00
11	Freon 123	0.5610	0.5497	2.0	102 0.00
12	Acrolein	0.0756	0.0602	20.4#	82 0.00 ①
13	1,1-Dicethene	0.3684	0.3676	0.2	106 0.00
14 P	Freon 113	0.3854	0.3975	-3.1	110 0.00
15 P	Acetone	0.1691	0.1360	7.9 19.6	101 0.00
16	2-Propanol	0.0262	0.0268	-2.3	103 0.00
17	Iodomethane	0.5455	0.3365	38.3#	61 0.00 MT
18 P	Carbon Disulfide	1.3232	1.3534	-2.3	108 0.00
19	Acetonitrile	0.0230	0.0263	-14.3	121 0.00
20	Allyl Chloride	0.2397	0.2548	-6.3	109 0.00
21 P	Methyl Acetate	0.3642	0.3572	1.9	106 0.00
22 P	Methylene Chloride	0.4520	0.4293	5.0	104 0.00
23	TBA	0.0336	0.0318	5.4	102 0.00
24	Acrylonitrile	0.1616	0.1561	3.4	100 0.00
25 P	Methyl-t-Butyl Ether	1.0534	0.9837	6.6	100 0.00
26 P	trans-1,2-Dichloroethene	0.4146	0.4110	0.9	105 0.00
27 P	1,1-Dicethane	0.9257	0.8937	3.5	100 0.00
28	Vinyl Acetate	0.0747	0.0529	29.2#	76 0.00 MT
29	DIPE	~~2.5377~~	~~0.0017~~	~~99.9#~~	~~0# 0.00~~
30	2-Chloro-1,3-Butadiene	1.0766	1.2235	-13.6	114 0.00
31	ETBE	~~1.7332~~	~~0.0000~~	~~100.0#~~	~~0# -3.88#~~
32	2,2-Dichloropropane	0.5982	0.5305	11.3	93 0.00
33 P	cis-1,2-Dichloroethene	0.4970	0.4840	2.6	103 0.00
34 P	2-Butanone	0.2352	0.2262	3.8	104 0.00
35	Propionitrile	0.0584	0.0544	6.8	97 -0.01
36	Bromochloromethane	0.3056	0.3002	1.8	102 0.00
37	Methacrylonitrile	0.1379	0.1242	9.9	95 0.00
38	Tetrahydrofuran	0.1454	0.1346	7.4	99 0.00
39 P	Chloroform	0.8234	0.8026	2.5	102 0.00
40 P	1,1,1-Trichloroethane	0.7004	0.6839	2.4	102 0.00
41 i	1,4-Difluorobenzene	1.0000	1.0000	0.0	103 0.00
42 P	Cyclohexane	0.4754	0.4481	5.7	97 0.00
43 s	surr4,Dibrflmethane	0.3120	0.3015	3.4	103 0.00
44 P	Carbontetrachloride	0.1235	0.1251	-1.3	105 0.00
45	1,1-Dichloropropene	0.4042	0.3870	4.3	101 0.00
46 s	surr1,1,2-dichloroethane-d4	0.3206	0.3137	2.2	104 0.00

Data Path : I:\ACQUDATA\msvoa10\data\052615\

Data File : A8906.D

Acq On : 26 May 2015 8:57 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 27 09:20:49 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	1.2531	1.2201	2.6	103 0.00
48 P	1,2-Dichloroethane	0.4326	0.4258	1.6	102 0.00
49	Iso-Butyl Alcohol	0.0130	0.0113	13.1	98 -0.01
50	TAME	~~0.7222~~	~~0.0000~~	~~100.0#~~	~~0# -5.74#~~
51	n-Heptane	0.5448	0.4885	10.3	92 0.00
52	1-Butanol	~~0.0058~~	~~0.0000~~	~~100.0#~~	~~0# -6.52#~~
53 P	Trichloroethene	0.3463	0.3476	-0.4	105 0.00
54 P	Methylcyclohexane	0.5121	0.4820	5.9	97 0.00
55 P	1,2-Dichloropropane	0.3694	0.3572	3.3	103 0.00
56	Dibromomethane	0.1625	0.1557	4.2	103 0.00
57	1,4-Dioxane	0.0018	0.0017	5.6	107 0.00
58	Methyl Methacrylate	0.1455	0.1337	8.1	93 0.00
59 P	Bromodichloromethane	0.3893	0.3842	1.3	103 0.00
60	2-Nitropropane	0.0426	0.0470	-10.3	119 0.00
61	2-Chloroethylvinyl Ether	0.1728	0.1607	7.0	94 0.00
62 P	cis-1,3-Dichloropropene	0.4412	0.4322	2.0	98 0.00
63 P	4-Methyl-2-pentanone	0.3164	0.3056	3.4	98 0.00
64 s	SURR3, Toluene-d8	1.1896	1.1401	4.2	100 0.00
65 P	Toluene	1.3531	1.2978	4.1	101 0.00
66 P	trans-1,3-Dichloropropene	0.3677	0.3481	5.3	95 0.00
67	Ethyl Methacrylate	0.2898	0.2818	2.8	97 0.00
68 P	1,1,2-Trichloroethane	0.2413	0.2261	6.3	99 0.00
69 s	SURR2, BFB	0.4834	0.4450	7.9	96 0.00
70 i	d5-Chlorobenzene	1.0000	1.0000	0.0	97 0.00
71 P	Tetrachloroethene	0.3005	0.2927	2.6	99 0.00
72 P	2-Hexanone	0.2256	0.2282	-1.2	98 0.00
73	1,3-Dichloropropane	0.4369	0.4367	0.0	99 0.00
74 P	Dibromochloromethane	0.2981	0.3208	-7.6	101 0.00
75	N-Butyl Acetate	0.5418	0.5687	-5.0	96 0.00
76 P	1,2-Dibromoethane	0.2435	0.2404	1.3	97 0.00
77	3-Chlorobenzotrifluoride	~~0.5472~~	~~0.0008~~	~~99.9#~~	~~0# 0.00~~
78 P	Chlorobenzene	0.9831	0.9959	-1.3	98 0.00
79	4-Chlorobenzotrifluoride	~~0.4816~~	~~0.0005~~	~~99.9#~~	~~0# -0.01~~
80	1,1,1,2-Tetrachloroethane	0.3366	0.3411	-1.3	97 0.00
81 P	Ethylbenzene	0.5157	0.5184	-0.5	98 0.00
82 P	(m+p)Xylene	0.6204	0.6521	-5.1	99 0.00
83 P	o-Xylene	0.6155	0.6287	-2.1	98 0.00
84 P	Styrene	1.0423	1.1105	-6.5	98 0.00
85 P	Bromoform	0.1624	0.1696	-4.4	96 0.00
86	2-Chlorobenzotrifluoride	~~0.5181~~	~~0.0004~~	~~99.9#~~	~~0# 0.00~~
87 P	Isopropylbenzene	1.5120	1.6039	-6.1	96 0.00
88	Cyclohexanone	0.0161	0.0112	30.4#	72 0.00
89	trans-1,4-Dichloro-2-Butene	0.1091	0.0903	17.2	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	0.5106	0.4968	2.7	91 0.00

Data Path : I:\ACQUDATA\msvoa10\data\052615\

Data File : A8906.D

Acq On : 26 May 2015 8:57 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 27 09:20:49 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	0.7243	0.7193	0.7	98 0.00
93	1,2,3-Trichloropropane	0.1503	0.1457	3.1	99 0.00
94	n-Propylbenzene	2.9707	3.2640	-9.9	98 0.00
95	2-Chlorotoluene	1.8626	1.9357	-3.9	97 0.00
96	3-Chlorotoluene	~~1.9669~~	~~0.0000~~	~~100.0#~~	~~0# 11.03#~~
97	4-Chlorotoluene	2.2203	2.3444	-5.6	97 0.00
98	1,3,5-Trimethylbenzene	2.2186	2.3936	-7.9	96 0.00
99	tert-Butylbenzene	1.9260	1.9893	-3.3	94 0.00
100	1,2,4-Trimethylbenzene	2.2658	2.4371	-7.6	96 0.00
101	3,4-Dichlorobenzotrifluorid	~~0.6591~~	~~0.0014~~	~~99.8#~~	~~0# 0.00~~
102	sec-Butylbenzene	2.6151	2.8113	-7.5	95 0.00
103	p-Isopropyltoluene	2.3299	2.4675	-5.9	94 0.00
104 P	1,3-Dclbenz	1.4741	1.4805	-0.4	95 0.00
105 P	1,4-Dclbenz	1.5453	1.5445	0.1	97 0.00
106	2,4-Dichlorobenzotrifluorid	~~0.6183~~	~~0.0014~~	~~99.8#~~	~~0# 0.00~~
107	2,5-Dichlorobenzotrifluorid	~~0.7008~~	~~0.0012~~	~~99.8#~~	~~0# 0.00~~
108	n-Butylbenzene	2.0576	2.1369	-3.9	92 0.00
109 P	1,2-Dclbenz	1.3624	1.3887	-1.9	97 0.00
110 P	1,2-Dibromo-3-chloropropane	0.0934	0.0904	3.2	97 0.00
111	Trielution Dichlorotoluene	~~1.1680~~	~~0.0026~~	~~99.8#~~	~~0# 0.01~~
112	1,3,5-Trichlorobenzene	~~0.9978~~	~~0.0030~~	~~99.7#~~	~~0# 0.00~~
113	Coelution Dichlorotoluene	~~1.2478~~	~~0.0032~~	~~99.7#~~	~~0# 0.00~~
114 P	1,2,4-Tcbenzene	0.8584	0.8180	4.7	88 0.00
115	Hexachlorobt	0.3554	0.3279	7.7	89 0.00
116	Naphthalen	1.6087	1.5647	2.7	88 0.00
117	1,2,3-Tclbenzene	0.7069	0.6883	2.6	90 0.00
118	2,4,5-Trichlorotoluene	~~0.5213~~	~~0.0059~~	~~98.9#~~	~~1# 0.00~~
119	2,3,6-Trichlorotoluene	~~0.4556~~	~~0.0047~~	~~99.0#~~	~~1# 0.00~~

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\052615\

Data File : A8906.D

Acq On : 26 May 2015 8:57 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 27 09:20:49 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	999388	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.146	114	1519655	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1356642	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	789445	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrfilmethane	4.829	113	458114	48.31	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	96.62%		
46) surr1,1,2-dichloroetha...	5.408	65	476720	48.92	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	97.84%		
64) SURR3,Toluene-d8	8.042	98	1732510	47.92	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	95.84%		
69) SURR2,BFB	10.669	95	676303	46.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	92.06%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	562322	54.19	ug/L	98
3) Chloromethane	1.281	50	939360	49.45	ug/L	98
4) Vinyl Chloride	1.348	62	694650	50.20	ug/L	97
5) Bromomethane	1.567	94	239343	41.81	ug/L	100
6) Chloroethane	1.634	64	347070	51.08	ug/L	95
7) Freon 21	1.762	67	857819	51.67	ug/L	100
8) Trichlorofluoromethane	1.811	101	712604	53.35	ug/L	99
9) Diethyl Ether	2.012	59	414666	51.54	ug/L #	78
10) Freon 123a	2.012	67	511431	50.46	ug/L	90
11) Freon 123	2.061	83	549399	48.99	ug/L	82
12) Acrolein	2.104	56	300814	199.05	ug/L	99
13) 1,1-Dicethene	2.195	96	367341	49.89	ug/L #	82
14) Freon 113	2.195	101	397221	51.57	ug/L	92
15) Acetone	2.220	43	135937	46.03	ug/L	99
16) 2-Propanol	2.323	45	535364	1021.74	ug/L	90
17) Iodomethane	2.317	142	336304	30.84	ug/L	99
18) Carbon Disulfide	2.378	76	1352619	51.14	ug/L	99
19) Acetonitrile	2.451	40	131363	285.15	ug/L	98
20) Allyl Chloride	2.488	76	254691	53.17	ug/L #	19
21) Methyl Acetate	2.500	43	356992	49.04	ug/L	83
22) Methylene Chloride	2.598	84	429080	47.50	ug/L #	62
23) TBA	2.689	59	635308	946.56	ug/L	68
24) Acrylonitrile	2.817	53	780233	241.48	ug/L	98
25) Methyl-t-Butyl Ether	2.860	73	983077	46.69	ug/L	85
26) trans-1,2-Dichloroethene	2.860	96	410707	49.56	ug/L #	83
27) 1,1-Dicethane	3.305	63	893188	48.27	ug/L	96
28) Vinyl Acetate	3.372	86	52906	35.46	ug/L #	96
30) 2-Chloro-1,3-Butadiene	3.414	53	1222707	56.82	ug/L	85
32) 2,2-Dichloropropane	4.055	77	530204	44.35	ug/L	97
33) cis-1,2-Dichloroethene	4.055	96	483694	48.70	ug/L #	85
34) 2-Butanone	4.085	43	226062	48.08	ug/L	87
35) Propionitrile	4.158	54	271584	232.76	ug/L	97
36) Bromochloromethane	4.408	130	300053	49.12	ug/L #	65
37) Methacrylonitrile	4.402	67	124104	45.02	ug/L #	34

Data Path : I:\ACQUDATA\msvoa10\data\052615\

Data File : A8906.D

Acq On : 26 May 2015 8:57 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 27 09:20:49 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.487	42	134528	46.29	ug/L #	67
39) Chloroform	4.561	83	802114	48.74	ug/L	95
40) 1,1,1-Trichloroethane	4.853	97	683482	48.82	ug/L	96
42) Cyclohexane	4.945	41	680923	47.13	ug/L	93
44) Carbontetrachloride	5.152	121	190075	50.62	ug/L	87
45) 1,1-Dichloropropene	5.158	75	588044	47.87	ug/L	97
47) Benzene	5.499	78	1854074	48.68	ug/L	85
48) 1,2-Dichloroethane	5.536	62	647123	49.22	ug/L	89
49) Iso-Butyl Alcohol	5.487	43	343782	870.32	ug/L	91
51) n-Heptane	6.005	43	742425	44.84	ug/L	81
53) Trichloroethene	6.493	130	528223	50.19	ug/L	95
54) Methylcyclohexane	6.743	55	732480	47.06	ug/L #	80
55) 1,2-Dichloropropane	6.786	63	542770	48.34	ug/L	100
56) Dibromomethane	6.938	93	236682	47.92	ug/L	98
57) 1,4-Dioxane	7.005	88	52997	945.91	ug/L	80
58) Methyl Methacrylate	7.024	69	203111	45.93	ug/L #	48
59) Bromodichloromethane	7.170	83	583849	49.35	ug/L	99
60) 2-Nitropropane	7.469	41	142866	110.26	ug/L	98
61) 2-Chloroethylvinyl Ether	7.597	63	244251	46.52	ug/L	92
62) cis-1,3-Dichloropropene	7.737	75	656788	48.98	ug/L	94
63) 4-Methyl-2-pentanone	7.950	43	464372	48.29	ug/L	90
65) Toluene	8.121	91	1972159	47.95	ug/L	98
66) trans-1,3-Dichloropropene	8.395	75	528990	47.33	ug/L	97
67) Ethyl Methacrylate	8.542	69	428267	48.63	ug/L #	48
68) 1,1,2-Trichloroethane	8.590	97	343539	46.85	ug/L	95
71) Tetrachloroethene	8.731	164	397120	48.70	ug/L	99
72) 2-Hexanone	8.895	43	309533	50.58	ug/L	87
73) 1,3-Dichloropropane	8.767	76	592463	49.98	ug/L #	76
74) Dibromochloromethane	8.999	129	435145	53.79	ug/L	99
75) N-Butyl Acetate	9.054	43	771564	52.49	ug/L	92
76) 1,2-Dibromoethane	9.096	107	326070	49.36	ug/L	100
78) Chlorobenzene	9.602	112	1351052	50.65	ug/L	98
80) 1,1,1,2-Tetrachloroethane	9.694	131	462775	50.67	ug/L	97
81) Ethylbenzene	9.730	106	703310	50.26	ug/L	97
82) (m+p)Xylene	9.846	106	1769462	105.12	ug/L	91
83) o-Xylene	10.206	106	852875	51.07	ug/L	95
84) Styrene	10.224	104	1506615	53.28	ug/L	95
85) Bromoform	10.377	173	230045	52.22	ug/L	100
87) Isopropylbenzene	10.547	105	2175930	53.04	ug/L	100
88) Cyclohexanone	10.614	55	305221	698.43	ug/L	93
89) trans-1,4-Dichloro-2-B...	10.864	53	122482	41.38	ug/L	79
91) 1,1,2,2-Tetrachloroethane	10.815	83	392232	48.65	ug/L	98
92) Bromobenzene	10.797	156	567824	49.65	ug/L	98
93) 1,2,3-Trichloropropane	10.840	110	115023	48.47	ug/L	92
94) n-Propylbenzene	10.907	91	2576759	54.94	ug/L	99
95) 2-Chlorotoluene	10.974	91	1528121	51.96	ug/L	97
97) 4-Chlorotoluene	11.065	91	1850759	52.79	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	1889610	53.94	ug/L	97
99) tert-Butylbenzene	11.340	119	1570449	51.64	ug/L	98
100) 1,2,4-Trimethylbenzene	11.376	105	1923925	53.78	ug/L	95
102) sec-Butylbenzene	11.523	105	2219358	53.75	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\052615\
Data File : A8906.D
Acq On : 26 May 2015 8:57 pm
Operator : F. Naegler
Sample : CCV
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 09:20:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration

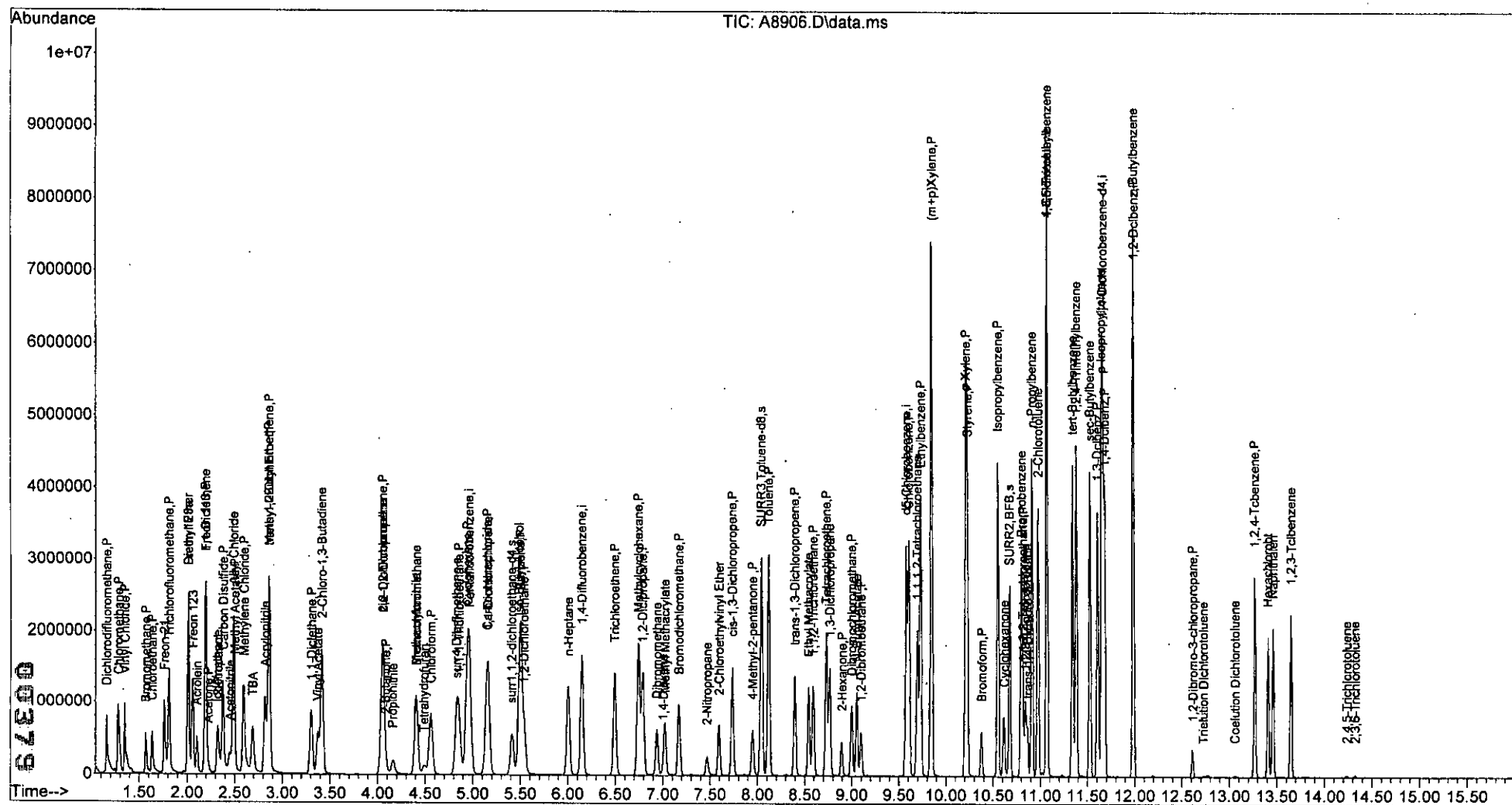
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) p-Isopropyltoluene	11.645	119	1947932	52.95	ug/L	97
104) 1,3-Dclbenz	11.602	146	1168761	50.22	ug/L	98
105) 1,4-Dclbenz	11.681	146	1219330	49.98	ug/L	98
108) n-Butylbenzene	11.980	91	1686989	51.93	ug/L	98
109) 1,2-Dclbenz	11.986	146	1096305	50.96	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.614	157	71386	48.39	ug/L	91
111) Trielution Dichlorotol...	12.724	125	6108	0.33	ug/L	94
113) Coelution Dichlorotoluene	13.059	125	5034	0.26	ug/L	89
114) 1,2,4-Tcbenzene	13.266	180	645743	47.64	ug/L	98
115) Hexachlorobt	13.406	225	258878	46.13	ug/L	97
116) Naphthalen	13.461	128	1235258	48.63	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	543365	48.68	ug/L	99
118) 2,4,5-Trichlorotoluene	14.236	159	4644	0.56	ug/L	88
119) 2,3,6-Trichlorotoluene	14.321	159	3710	0.52	ug/L	94

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

```
Data Path : I:\ACQUDATA\msvoal0\data\052615\  
Data File : A8906.D  
Acq On    : 26 May 2015      8:57 pm  
Operator  : F. Naegler  
Sample    : CCV  
Misc      :  
ALS Vial  : 27      Sample Multiplier: 1
```

Inst : MSVOA10

Quant Time: May 27 09:20:49 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900

Service Request: R1503862
 Date Analyzed: 5/27/15

Continuing Calibration Verification Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Calibration Date: 5/6/15
 Calibration ID: RC1500051
 Analysis Lot: 446543
 Units: µg/L

File ID: I:\ACQUDATA\MSVOA10\DATA\052715\A8938.D\

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Chloromethane	50.0	53.4	0.9504	1.016	6.9	NA	± 20 %	Average RF
Vinyl Chloride	50.0	51.6	0.6923	0.7140	3.1	NA	± 20 %	Average RF
Chloroethane	50.0	50.8	0.3399	0.3450	1.5	NA	± 20 %	Average RF
Bromomethane	50.0	45.8	0.2864	0.2624	-8.4	NA	± 20 %	Average RF
1,1-Dichloroethene	50.0	51.6	0.3684	0.3798	3.1	NA	± 20 %	Average RF
Acetone	50.0	34.1	NA	NA	NA	-31.9 *	± 20 %	Quadratic
Carbon Disulfide	50.0	45.5	1.323	1.204	-9.0	NA	± 20 %	Average RF
Methylene Chloride	50.0	46.8	0.4520	0.4229	-6.4	NA	± 20 %	Average RF
trans-1,2-Dichloroethene	50.0	50.5	0.4146	0.4186	0.9	NA	± 20 %	Average RF
1,1-Dichloroethane	50.0	51.2	0.9257	0.9474	2.4	NA	± 20 %	Average RF
cis-1,2-Dichloroethene	50.0	50.1	0.4970	0.4974	0.1	NA	± 20 %	Average RF
2-Butanone (MEK)	50.0	47.4	0.2352	0.2230	-5.2	NA	± 20 %	Average RF
Chloroform	50.0	49.5	0.8234	0.8145	-1.1	NA	± 20 %	Average RF
1,1,1-Trichloroethane	50.0	50.6	0.7004	0.7088	1.2	NA	± 20 %	Average RF
Carbon Tetrachloride	50.0	51.7	0.1235	0.1278	3.5	NA	± 20 %	Average RF
Benzene	50.0	49.5	1.253	1.241	-1.0	NA	± 20 %	Average RF
1,2-Dichloroethane	50.0	50.5	0.4326	0.4369	1.0	NA	± 20 %	Average RF
Trichloroethene	50.0	49.7	0.3463	0.3445	-0.5	NA	± 20 %	Average RF
1,2-Dichloropropane	50.0	49.9	0.3694	0.3684	-0.3	NA	± 20 %	Average RF
Bromodichloromethane	50.0	49.9	0.3893	0.3885	-0.2	NA	± 20 %	Average RF
cis-1,3-Dichloropropene	50.0	52.2	0.4412	0.4603	4.3	NA	± 20 %	Average RF
4-Methyl-2-pentanone (MIBK)	50.0	50.6	0.3164	0.3203	1.2	NA	± 20 %	Average RF
Toluene	50.0	48.6	1.353	1.314	-2.9	NA	± 20 %	Average RF
trans-1,3-Dichloropropene	50.0	52.9	0.3677	0.3894	5.9	NA	± 20 %	Average RF
1,1,2-Trichloroethane	50.0	48.9	0.2413	0.2357	-2.3	NA	± 20 %	Average RF
Tetrachloroethene	50.0	50.9	0.3005	0.3060	1.8	NA	± 20 %	Average RF
2-Hexanone	50.0	54.1	0.2256	0.2439	8.1	NA	± 20 %	Average RF
Dibromochloromethane	50.0	55.9	0.2981	0.3334	11.8	NA	± 20 %	Average RF
Chlorobenzene	50.0	52.3	0.9831	1.028	4.6	NA	± 20 %	Average RF
Ethylbenzene	50.0	51.8	0.5157	0.5342	3.6	NA	± 20 %	Average RF
m,p-Xylenes	100	107	0.6204	0.6625	6.8	NA	± 20 %	Average RF
o-Xylene	50.0	51.5	0.6155	0.6335	2.9	NA	± 20 %	Average RF
Styrene	50.0	53.6	1.042	1.117	7.2	NA	± 20 %	Average RF
Bromoform	50.0	57.7	0.1624	0.1874	15.4	NA	± 20 %	Average RF
1,1,2,2-Tetrachloroethane	50.0	53.9	0.5106	0.5503	7.8	NA	± 20 %	Average RF
4-Bromofluorobenzene	50.0	44.5	0.4834	0.4300	-11.1	NA	± 20 %	Average RF
Toluene-d8	50.0	48.4	1.190	1.151	-3.2	NA	± 20 %	Average RF
Dibromofluoromethane	50.0	49.2	0.3120	0.3067	-1.7	NA	± 20 %	Average RF

Data Path : I:\ACQUDATA\msvoa10\data\052715\
 Data File : A8938.D
 Acq On : 27 May 2015 4:12 pm
 Operator : F. Naegler
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 17:19:33 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 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	106	0.00
2 P	Dichlorodifluoromethane	0.5192	0.5888	-13.4	110	0.00
3 P	Chloromethane	0.9504	1.0159	-6.9	112	0.00
4 P	Vinyl Chloride	0.6923	0.7140	-3.1	108	0.00
5 P	Bromomethane	0.2864	0.2624	8.4	102	0.00
6 P	Chloroethane	0.3399	0.3450	-1.5	111	0.00
7	Freon 21	0.8305	0.7880	5.1	95	0.00
8 P	Trichlorofluoromethane	0.6683	0.5640	15.6	88	0.00
9	Diethyl Ether	0.4025	0.4189	-4.1	107	0.00
10	Freon 123a	0.5071	0.4817	5.0	97	0.00
11	Freon 123	0.5610	0.5236	6.7	99	0.00
12	Acrolein	0.0756	0.0569	24.7#	79	0.00
13	1,1-Dichlethene	0.3684	0.3798	-3.1	112	0.00
14 P	Freon 113	0.3854	0.3940	-2.2	111	0.00
15 P	Acetone	0.1691	0.1036	31.9	30.7#	78 0.00
16	2-Propanol	0.0262	0.0221	15.6	86	0.00
17	Iodomethane	0.5455	0.5081	6.9	93	0.00
18 P	Carbon Disulfide	1.3232	1.2039	9.0	97	0.00
19	Acetonitrile	0.0230	0.0142	38.3#	66	0.00
20	Allyl Chloride	0.2397	0.2883	-20.3#	125	0.00
21 P	Methyl Acetate	0.3642	0.3544	2.7	107	0.00
22 P	Methylene Chloride	0.4520	0.4229	6.4	104	0.00
23	TBA	0.0336	0.0303	9.8	99	0.00
24	Acrylonitrile	0.1616	0.1619	-0.2	105	0.00
25 P	Methyl-t-Butyl Ether	1.0534	1.0361	1.6	106	0.00
26 P	trans-1,2-Dichloroethene	0.4146	0.4186	-1.0	109	0.00
27 P	1,1-Dichlethane	0.9257	0.9474	-2.3	108	0.00
28	Vinyl Acetate	0.0747	0.0676	9.5	98	0.00
29	DIPE	2.5377	2.6331	-3.8	104	0.00
30	2-Chloro-1,3-Butadiene	1.0766	1.1423	-6.1	108	0.00
31	ETBE	1.7332	1.7172	0.9	102	0.00
32	2,2-Dichloropropane	0.5982	0.6377	-6.6	114	0.00
33 P	cis-1,2-Dichloroethene	0.4970	0.4974	-0.1	107	0.00
34 P	2-Butanone	0.2352	0.2230	5.2	104	0.00
35	Propionitrile	0.0584	0.0554	5.1	100	0.00
36	Bromochloromethane	0.3056	0.3042	0.5	105	0.00
37	Methacrylonitrile	0.1379	0.1308	5.1	102	0.00
38	Tetrahydrofuran	0.1454	0.1419	2.4	106	0.00
39 P	Chloroform	0.8234	0.8145	1.1	106	0.00
40 P	1,1,1-Trichloroethane	0.7004	0.7088	-1.2	108	0.00
41 i	1,4-Difluorobenzene	1.0000	1.0000	0.0	104	0.00
42 P	Cyclohexane	0.4754	0.4492	5.5	99	0.00
43 s	surr4,Dibrflmethane	0.3120	0.3067	1.7	106	0.00
44 P	Carbontetrachloride	0.1235	0.1278	-3.5	109	0.00
45	1,1-Dichloropropene	0.4042	0.4062	-0.5	107	0.00
46 s	surr1,1,2-dichloroethane-d4	0.3206	0.3167	1.2	107	0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa10\data\052715\
 Data File : A8938.D
 Acq On : 27 May 2015 4:12 pm
 Operator : F. Naegler
 Sample : CCV
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 17:19:33 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 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	1.2531	1.2405	1.0	106	0.00
48 P	1,2-Dichloroethane	0.4326	0.4369	-1.0	106	0.00
49	Iso-Butyl Alcohol	0.0130	0.0119	8.5	105	0.00
50	TAME	0.7222	0.7373	-2.1	102	0.00
51	n-Heptane	0.5448	0.5690	-4.4	109	0.00
52	1-Butanol	0.0058	0.0053	8.6	94	0.00
53 P	Trichloroethene	0.3463	0.3445	0.5	106	0.00
54 P	Methylcyclohexane	0.5121	0.4703	8.2	96	0.00
55 P	1,2-Dichloropropane	0.3694	0.3684	0.3	108	0.00
56	Dibromomethane	0.1625	0.1596	1.8	107	0.00
57	1,4-Dioxane	0.0018	0.0015	16.7	95	0.00
58	Methyl Methacrylate	0.1455	0.1448	0.5	102	0.00
59 P	Bromodichloromethane	0.3893	0.3885	0.2	105	0.00
60	2-Nitropropane	0.0426	0.0518	-21.6#	133	0.00
61	2-Chloroethylvinyl Ether	0.1728	0.1763	-2.0	105	0.00
62 P	cis-1,3-Dichloropropene	0.4412	0.4603	-4.3	106	0.00
63 P	4-Methyl-2-pentanone	0.3164	0.3203	-1.2	104	0.00
64 s	SURR3, Toluene-d8	1.1896	1.1510	3.2	103	0.00
65 P	Toluene	1.3531	1.3142	2.9	104	0.00
66 P	trans-1,3-Dichloropropene	0.3677	0.3894	-5.9	107	0.00
67	Ethyl Methacrylate	0.2898	0.3086	-6.5	108	0.00
68 P	1,1,2-Trichloroethane	0.2413	0.2357	2.3	105	0.00
69 s	SURR2, BFB	0.4834	0.4300	11.0	94	0.00
70 i	d5-Chlorobenzene	1.0000	1.0000	0.0	96	0.00
71 P	Tetrachloroethene	0.3005	0.3060	-1.8	103	0.00
72 P	2-Hexanone	0.2256	0.2439	-8.1	103	0.00
73	1,3-Dichloropropene	0.4369	0.4656	-6.6	105	0.00
74 P	Dibromochloromethane	0.2981	0.3334	-11.8	105	0.00
75	N-Butyl Acetate	0.5418	0.6166	-13.8	104	0.00
76 P	1,2-Dibromoethane	0.2435	0.2642	-8.5	106	0.00
77	3-Chlorobenzotrifluoride	0.5472	0.5547	-1.4	97	0.00
78 P	Chlorobenzene	0.9831	1.0284	-4.6	101	0.00
79	4-Chlorobenzotrifluoride	0.4816	0.4963	-3.1	97	0.00
80	1,1,1,2-Tetrachloroethane	0.3366	0.3637	-8.1	103	0.00
81 P	Ethylbenzene	0.5157	0.5342	-3.6	100	0.00
82 P	(m+p)Xylene	0.6204	0.6625	-6.8	99	0.00
83 P	o-Xylene	0.6155	0.6335	-2.9	98	0.00
84 P	Styrene	1.0423	1.1175	-7.2	98	0.00
85 P	Bromoform	0.1624	0.1874	-15.4	105	0.00
86	2-Chlorobenzotrifluoride	0.5181	0.5253	-1.4	93	0.00
87 P	Isopropylbenzene	1.5120	1.6242	-7.4	96	0.00
88	Cyclohexanone	0.0161	0.0132	18.0	84	0.00
89	trans-1,4-Dichloro-2-Butene	0.1091	0.1136	-4.1	104	0.00
90 i	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	96	0.00
91 P	1,1,2,2-Tetrachloroethane	0.5106	0.5503	-7.8	101	0.00

NT

Data Path : I:\ACQUDATA\msvoa10\data\052715\

Data File : A8938.D

Acq On : 27 May 2015 4:12 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 17:19:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 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	0.7243	0.7277	-0.5	100 0.00
93	1,2,3-Trichloropropane	0.1503	0.1457	3.1	100 0.00
94	n-Propylbenzene	2.9707	3.2191	-8.4	97 0.00
95	2-Chlorotoluene	1.8626	1.9246	-3.3	97 0.00
96	3-Chlorotoluene	1.9669	1.9870	-1.0	92 0.00
97	4-Chlorotoluene	2.2203	2.3155	-4.3	96 0.00
98	1,3,5-Trimethylbenzene	2.2186	2.3711	-6.9	95 0.00
99	tert-Butylbenzene	1.9260	2.0008	-3.9	95 0.00
100	1,2,4-Trimethylbenzene	2.2658	2.4224	-6.9	96 0.00
101	3,4-Dichlorobenzotrifluorid	0.6591	0.6779	-2.9	94 0.00
102	sec-Butylbenzene	2.6151	2.8344	-8.4	96 0.00
103	p-Isopropyltoluene	2.3299	2.5388	-9.0	97 0.00
104 P	1,3-Dclbenz	1.4741	1.5325	-4.0	99 0.00
105 P	1,4-Dclbenz	1.5453	1.5646	-1.2	99 0.00
106	2,4-Dichlorobenzotrifluorid	0.6183	0.6146	0.6	93 0.00
107	2,5-Dichlorobenzotrifluorid	0.7008	0.6927	1.2	93 0.00
108	n-Butylbenzene	2.0576	2.2358	-8.7	97 0.00
109 P	1,2-Dclbenz	1.3624	1.4369	-5.5	101 0.00
110 P	1,2-Dibromo-3-chloropropane	0.0934	0.1046	-12.0	113 0.00
111	Trielution Dichlorotoluene	1.1680	1.2951	-10.9	96 0.00
112	1,3,5-Trichlorobenzene	0.9978	1.0512	-5.4	97 0.00
113	Coelution Dichlorotoluene	1.2478	1.4194	-13.8	98 0.00
114 P	1,2,4-Tcbenzene	0.8584	0.9577	-11.6	104 0.00
115	Hexachlorobt	0.3554	0.3658	-2.9	99 0.00
116	Naphthalen	1.6087	1.9892	-23.7#	112 0.00
117	1,2,3-Tclbenzene	0.7069	0.8441	-19.4	111 0.00
118	2,4,5-Trichlorotoluene	0.5213	0.6250	-19.9	104 0.00
119	2,3,6-Trichlorotoluene	0.4556	0.5455	-19.7	109 0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa10\data\052715\

Data File : A8938.D

Acq On : 27 May 2015 4:12 pm

Operator : F. Naegler

Sample : CCV *PQ1505743-02*

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 17:19:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	1014460	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1539504	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1346702	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	792098	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	472219	49.15	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	98.30%		
46) surr1,1,2-dichloroetha...	5.414	65	487601	49.39	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	98.78%		
64) SURR3,Toluene-d8	8.042	98	1772006	48.38	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	96.76%		
69) SURR2,BFB	10.675	95	661971	44.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	88.94%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	597338m	56.71	ug/L	
3) Chloromethane	1.281	50	1030591	53.44	ug/L	99
4) Vinyl Chloride	1.348	62	724324	51.57	ug/L	96
5) Bromomethane	1.573	94	266218	45.81	ug/L	92
6) Chloroethane	1.634	64	350023	50.75	ug/L	95
7) Freon 21	1.762	67	799437	47.44	ug/L	98
8) Trichlorofluoromethane	1.811	101	572168	42.20	ug/L	100
9) Diethyl Ether	2.012	59	424986	52.04	ug/L #	73
10) Freon 123a	2.012	67	488696	47.50	ug/L	90
11) Freon 123	2.061	83	531144	46.66	ug/L	77
12) Acrolein	2.110	56	288848	188.29	ug/L	96
13) 1,1-Dicethene	2.195	96	385262	51.55	ug/L #	88
14) Freon 113	2.195	101	399730	51.12	ug/L	100
15) Acetone	2.226	43	105111	34.07	ug/L	96
16) 2-Propanol	2.329	45	447882	842.08	ug/L	94
17) Iodomethane	2.317	142	515470	46.57	ug/L	98
18) Carbon Disulfide	2.378	76	1221352	45.49	ug/L	100
19) Acetonitrile	2.451	40	72099	154.18	ug/L	99
20) Allyl Chloride	2.488	76	292507	60.15	ug/L #	15
21) Methyl Acetate	2.500	43	359556	48.66	ug/L	84
22) Methylene Chloride	2.598	84	429006	46.79	ug/L #	57
23) TBA	2.695	59	615404	903.29	ug/L	64
24) Acrylonitrile	2.823	53	821108	250.36	ug/L	100
25) Methyl-t-Butyl Ether	2.866	73	1051118	49.18	ug/L	83
26) trans-1,2-Dichloroethene	2.860	96	424620	50.47	ug/L #	80
27) 1,1-Dicethane	3.305	63	961139	51.18	ug/L	99
28) Vinyl Acetate	3.372	86	68558	45.26	ug/L #	78
29) DIPE	3.408	45	2671179	51.88	ug/L #	76
30) 2-Chloro-1,3-Butadiene	3.415	53	1158818	53.05	ug/L	88
31) ETBE	3.878	59	1742018	49.54	ug/L	93
32) 2,2-Dichloropropane	4.055	77	646910	53.30	ug/L	98
33) cis-1,2-Dichloroethene	4.055	96	504634	50.05	ug/L	87
34) 2-Butanone	4.097	43	226183	47.39	ug/L	86
35) Propionitrile	4.164	54	281046	237.29	ug/L	97

Handwritten:
48
5/29/15

Data Path : I:\ACQUDATA\msvoa10\data\052715\

Data File : A8938.D

Acq On : 27 May 2015 4:12 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 17:19:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Bromochloromethane	4.408	130	308636	49.78	ug/L #	67
37) Methacrylonitrile	4.408	67	132673	47.41	ug/L #	15
38) Tetrahydrofuran	4.494	42	143924	48.79	ug/L	69
39) Chloroform	4.561	83	826273	49.46	ug/L	97
40) 1,1,1-Trichloroethane	4.853	97	719037	50.60	ug/L	90
42) Cyclohexane	4.945	41	691488	47.24	ug/L	90
44) Carbontetrachloride	5.146	121	196811	51.74	ug/L	86
45) 1,1-Dichloropropene	5.158	75	625311	50.25	ug/L	95
47) Benzene	5.499	78	1909822	49.50	ug/L	82
48) 1,2-Dichloroethane	5.542	62	672587	50.50	ug/L	92
49) Iso-Butyl Alcohol	5.493	43	366211	915.15	ug/L	91
50) TAME	5.743	73	1135034	51.04	ug/L	82
51) n-Heptane	6.005	43	876004	52.22	ug/L	80
52) 1-Butanol	6.518	56	405499	2319.11	ug/L	81
53) Trichloroethene	6.493	130	530290	49.74	ug/L	96
54) Methylcyclohexane	6.749	55	724011	45.92	ug/L #	82
55) 1,2-Dicloropropane	6.792	63	567207	49.87	ug/L	99
56) Dibromomethane	6.938	93	245638	49.09	ug/L	93
57) 1,4-Dioxane	7.011	88	46791m	824.37	ug/L	
58) Methyl Methacrylate	7.024	69	222927	49.76	ug/L #	52
59) Bromodichloromethane	7.176	83	598139	49.91	ug/L	97
60) 2-Nitropropane	7.469	41	159344	121.39	ug/L	98
61) 2-Chloroethylvinyl Ether	7.597	63	271481	51.04	ug/L	90
62) cis-1,3-Dichloropropene	7.737	75	708709	52.17	ug/L	95
63) 4-Methyl-2-pentanone	7.950	43	493108	50.62	ug/L	87
65) Toluene	8.121	91	2023250	48.56	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	599439	52.94	ug/L	96
67) Ethyl Methacrylate	8.542	69	475036	53.24	ug/L #	58
68) 1,1,2-Trichloroethane	8.590	97	362846	48.85	ug/L	95
71) Tetrachloroethene	8.731	164	412152	50.92	ug/L	98
72) 2-Hexanone	8.895	43	328429	54.06	ug/L	89
73) 1,3-Dichloropropane	8.767	76	627025	53.29	ug/L #	77
74) Dibromochloromethane	8.999	129	448983	55.91	ug/L	97
75) N-Butyl Acetate	9.054	43	830431	56.91	ug/L	92
76) 1,2-Dibromoethane	9.096	107	355857	54.26	ug/L	100
77) 3-Chlorobenzotrifluoride	9.627	180	747020	50.68	ug/L	98
78) Chlorobenzene	9.608	112	1384949	52.30	ug/L	95
79) 4-Chlorobenzotrifluoride	9.682	180	668386	51.52	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.694	131	489815	54.02	ug/L	98
81) Ethylbenzene	9.730	106	719426	51.80	ug/L	92
82) (m+p)Xylene	9.846	106	1784359	106.79	ug/L	93
83) o-Xylene	10.206	106	853177	51.47	ug/L	94
84) Styrene	10.224	104	1504914	53.61	ug/L	95
85) Bromoform	10.377	173	252356	57.71	ug/L	99
86) 2-Chlorobenzotrifluoride	10.456	180	707406	50.70	ug/L	91
87) Isopropylbenzene	10.547	105	2187324	53.71	ug/L	99
88) Cyclohexanone	10.614	55	354763	817.79	ug/L	90
89) trans-1,4-Dichloro-2-B...	10.864	53	153028	52.08	ug/L	84
91) 1,1,2,2-Tetrachloroethane	10.816	83	435863	53.88	ug/L	99
92) Bromobenzene	10.797	156	576443	50.24	ug/L	94
93) 1,2,3-Trichloropropane	10.840	110	115442	48.48	ug/L #	84

Data Path : I:\ACQUDATA\msvoa10\data\052715\

Data File : A8938.D

Acq On : 27 May 2015 4:12 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 17:19:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

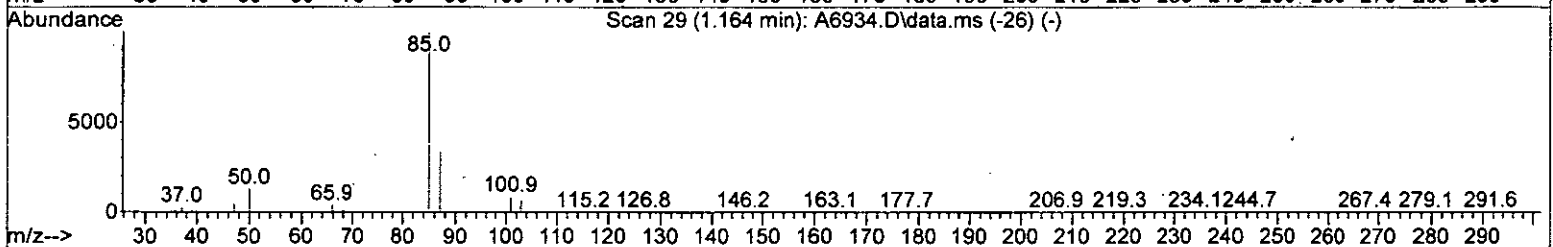
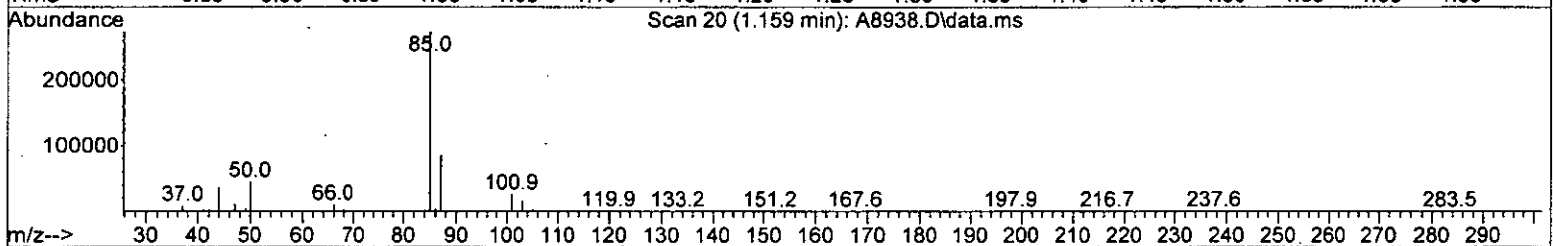
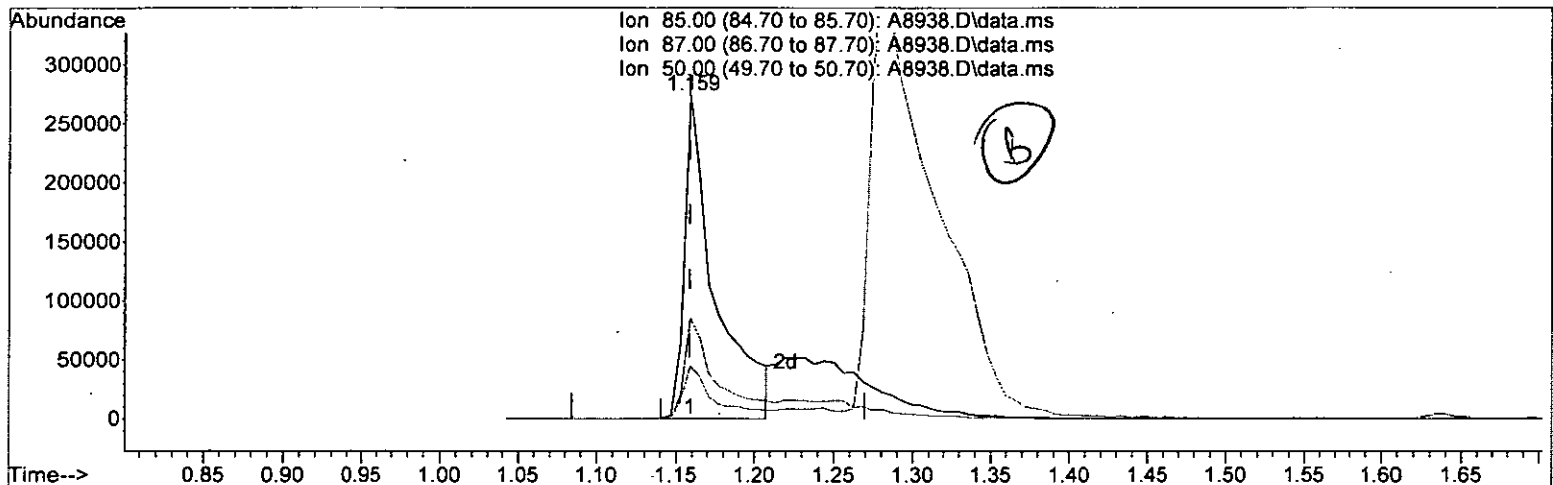
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) n-Propylbenzene	10.907	91	2549833	54.18	ug/L	100
95) 2-Chlorotoluene	10.974	91	1524485	51.67	ug/L	96
96) 3-Chlorotoluene	11.029	91	1573872	50.51	ug/L	96
97) 4-Chlorotoluene	11.065	91	1834073	52.14	ug/L	96
98) 1,3,5-Trimethylbenzene	11.065	105	1878176	53.44	ug/L	97
99) tert-Butylbenzene	11.340	119	1584826	51.94	ug/L	98
100) 1,2,4-Trimethylbenzene	11.376	105	1918801	53.46	ug/L	95
101) 3,4-Dichlorobenzotrifl...	11.443	214	536950	51.43	ug/L	100
102) sec-Butylbenzene	11.523	105	2245106	54.19	ug/L	98
103) p-Isopropyltoluene	11.645	119	2010946	54.48	ug/L	98
104) 1,3-Dclbenz	11.602	146	1213910	51.98	ug/L	98
105) 1,4-Dclbenz	11.681	146	1239321	50.62	ug/L	97
106) 2,4-Dichlorobenzotrifl...	11.736	214	486853	49.70	ug/L	97
107) 2,5-Dichlorobenzotrifl...	11.779	214	548673	49.42	ug/L	96
108) n-Butylbenzene	11.980	91	1770991	54.33	ug/L	97
109) 1,2-Dclbenz	11.986	146	1138163	52.73	ug/L	100
110) 1,2-Dibromo-3-chloropr...	12.614	157	82883	56.00	ug/L	91
111) Trielution Dichlorotol...	12.736	125	3077607	166.32	ug/L	98
112) 1,3,5-Trichlorobenzene	12.785	180	832655	52.68	ug/L	97
113) Coelution Dichlorotoluene	13.059	125	2248577	113.75	ug/L	95
114) 1,2,4-Tcbenzene	13.266	180	758614	55.78	ug/L	97
115) Hexachlorobt	13.406	225	289769	51.46	ug/L	96
116) Naphthalen	13.461	128	1575644	61.83	ug/L	97
117) 1,2,3-Tclbenzene	13.650	180	668593	59.70	ug/L	98
118) 2,4,5-Trichlorotoluene	14.236	159	495057	59.94	ug/L	98
119) 2,3,6-Trichlorotoluene	14.321	159	432067	59.87	ug/L	96

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

Data Path : I:\ACQUDATA\msvoa10\data\052715\
Data File : A8938.D
Acq On : 27 May 2015 4:12 pm
Operator : F. Naegler
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 16:27:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8938.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 35.63 ug/L

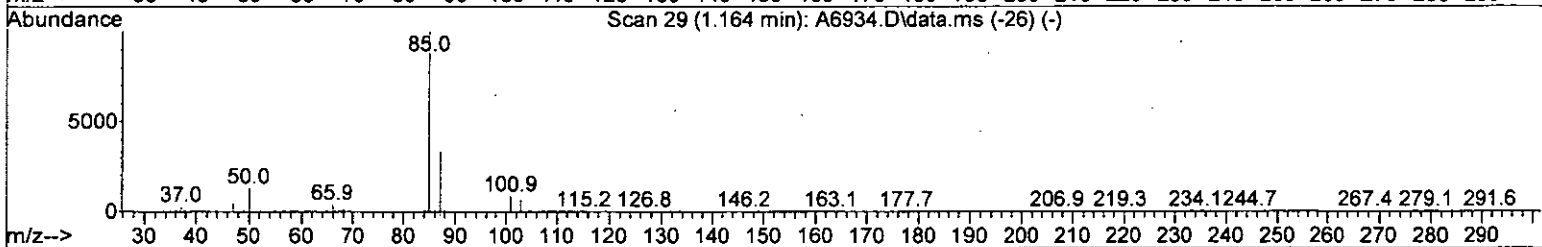
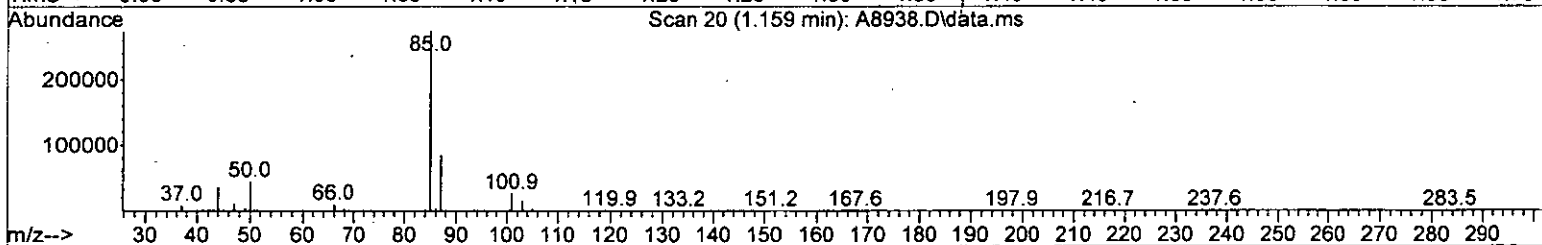
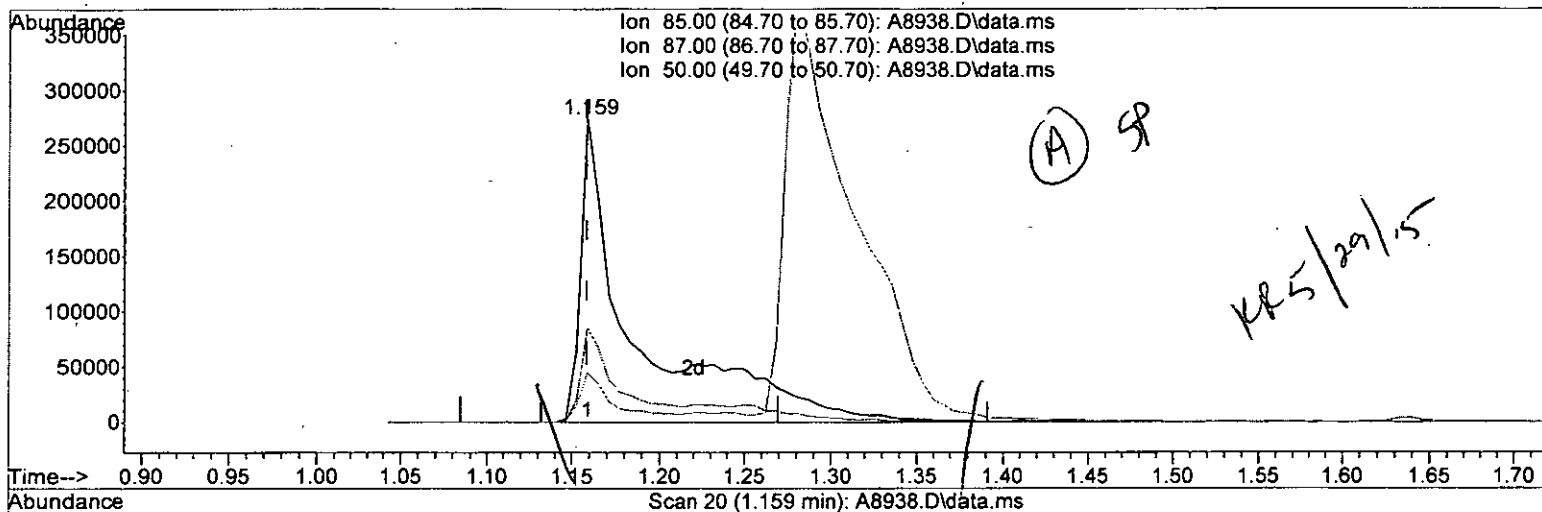
response 375380

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.03
50.00	15.00	16.23
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052715\
Data File : A8938.D
Acq On : 27 May 2015 4:12 pm
Operator : F. Naegler
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 16:27:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8938.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 56.71 ug/L m

response 597338

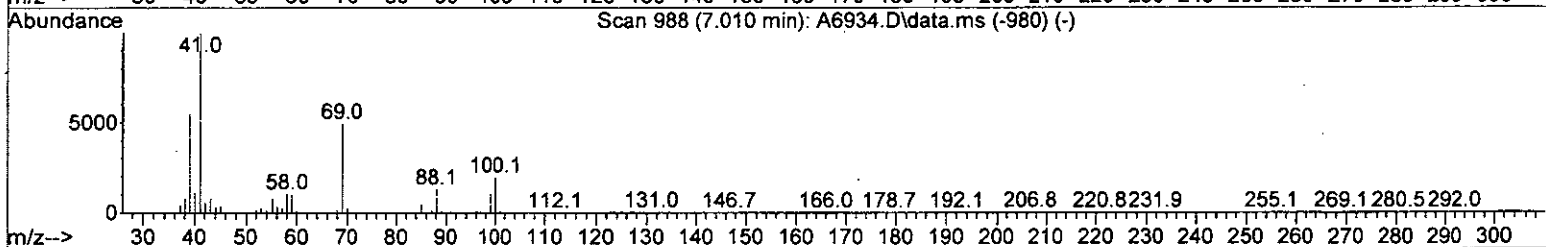
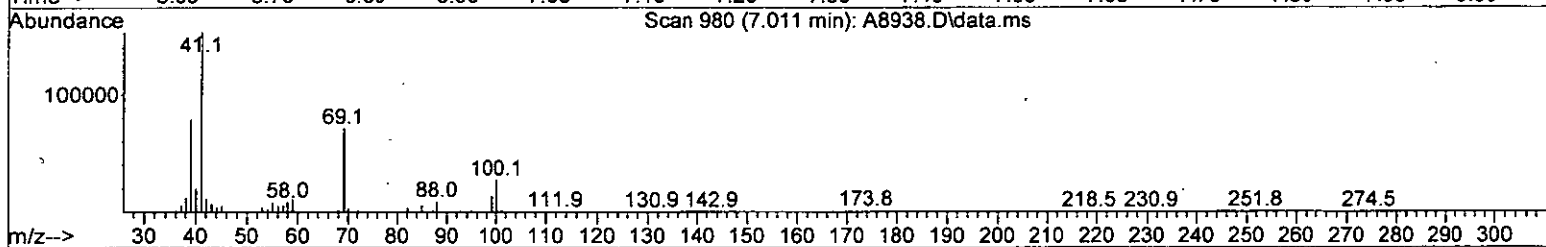
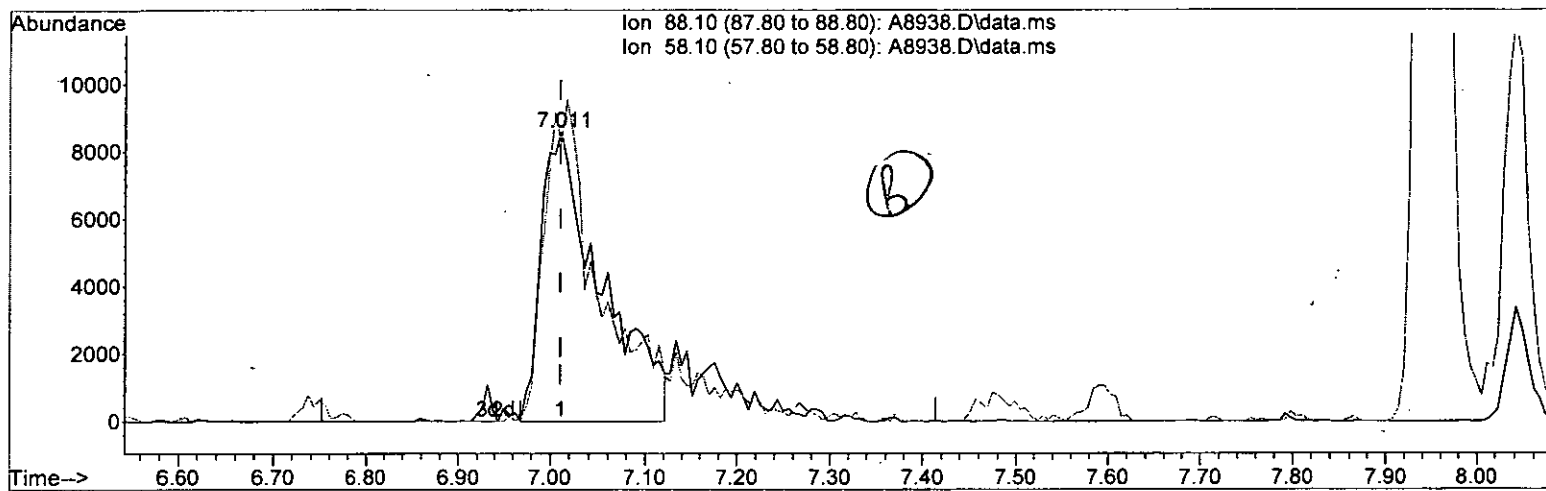
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.03
50.00	15.00	16.23
0.00	0.00	0.00

125/29/15

Data Path : I:\ACQUDATA\msvoa10\data\052715\
Data File : A8938.D
Acq On : 27 May 2015 4:12 pm
Operator : F. Naegler
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 16:27:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8938.D\data.ms

(57) 1,4-Dioxane

7.011min (+0.000) 661.63 ug/L

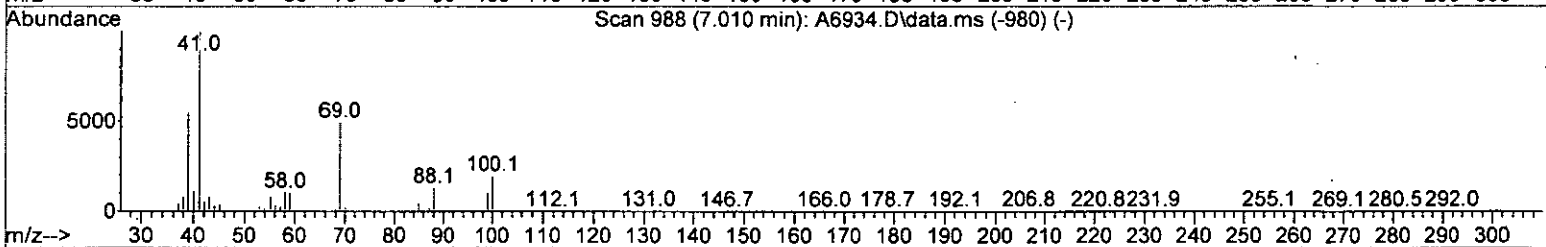
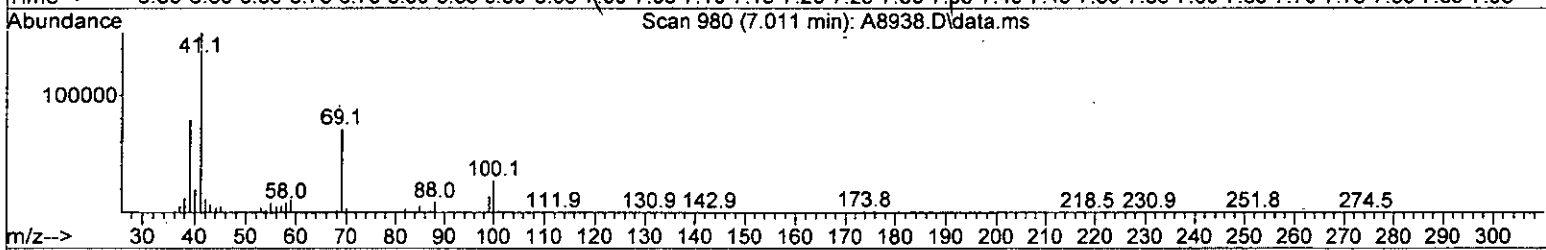
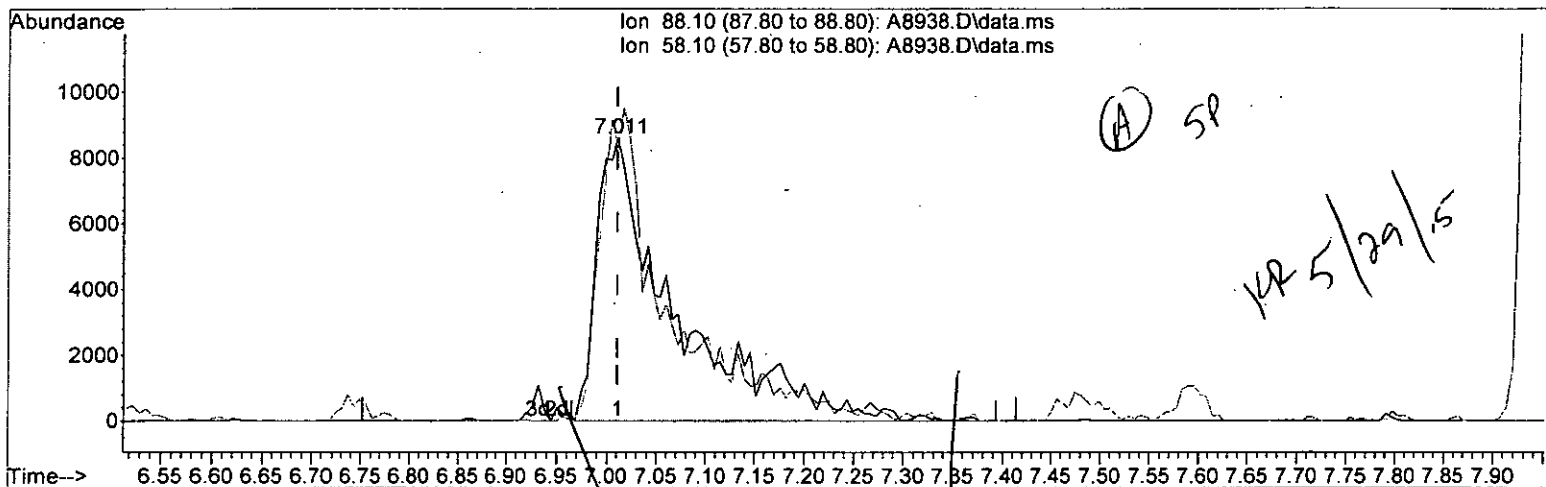
response 37554

Ion	Exp%	Ad%
88.10	100	100
58.10	61.10	96.01#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052715\
Data File : A8938.D
Acq On : 27 May 2015 4:12 pm
Operator : F. Naegler
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 27 16:27:21 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8938.D\data.ms

(57) 1,4-Dioxane

7.011min (+0.000) 824.37 ug/L m

response 46791

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	96.01#
0.00	0.00	0.00
0.00	0.00	0.00

m/4

(QT Reviewed)

Data Path : I:\ACQUADATA\msvoa10\data\052715\

Data File : A8938.D

Acq On : 27 May 2015 4:12 pm

Operator : F. Naegler

Sample : CCV

Inst : MSVOA10

Misc :

ALS Vial : 2 Sample Multiplier: 1

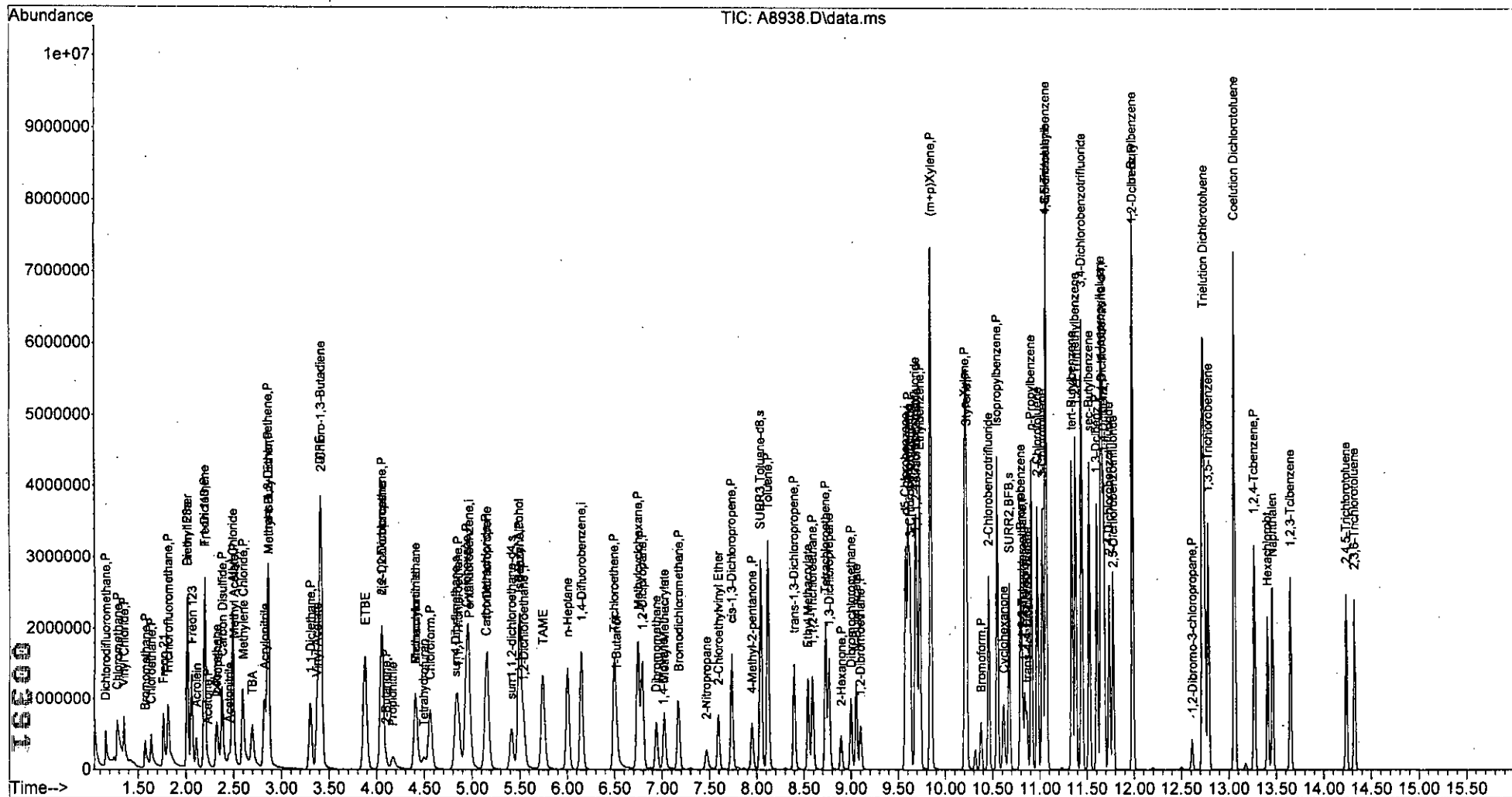
Quant Time: May 27 17:19:33 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration





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

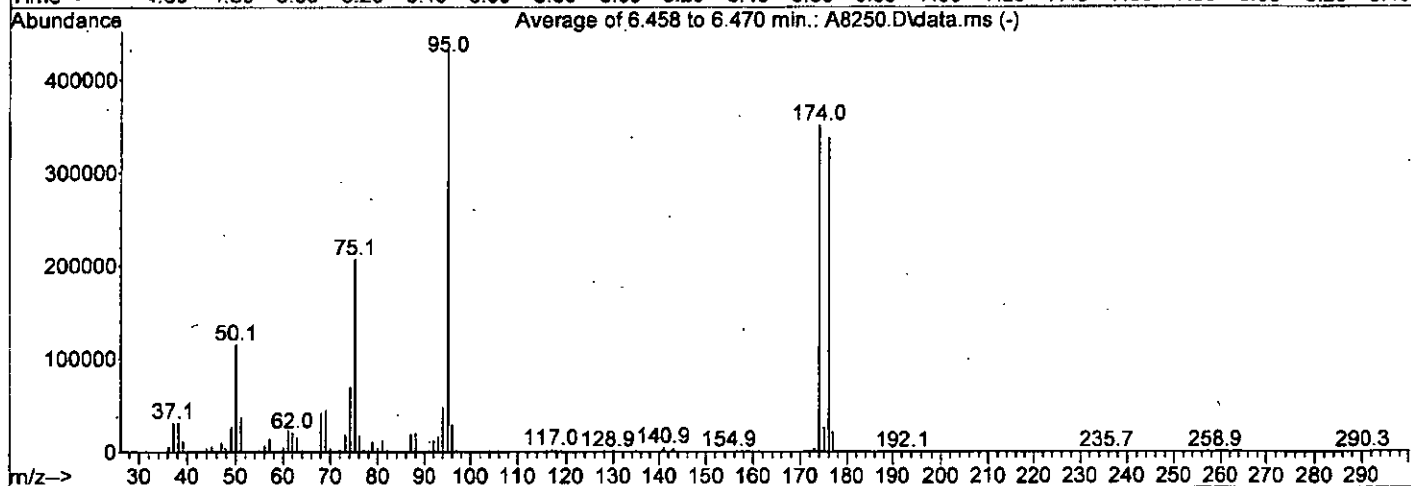
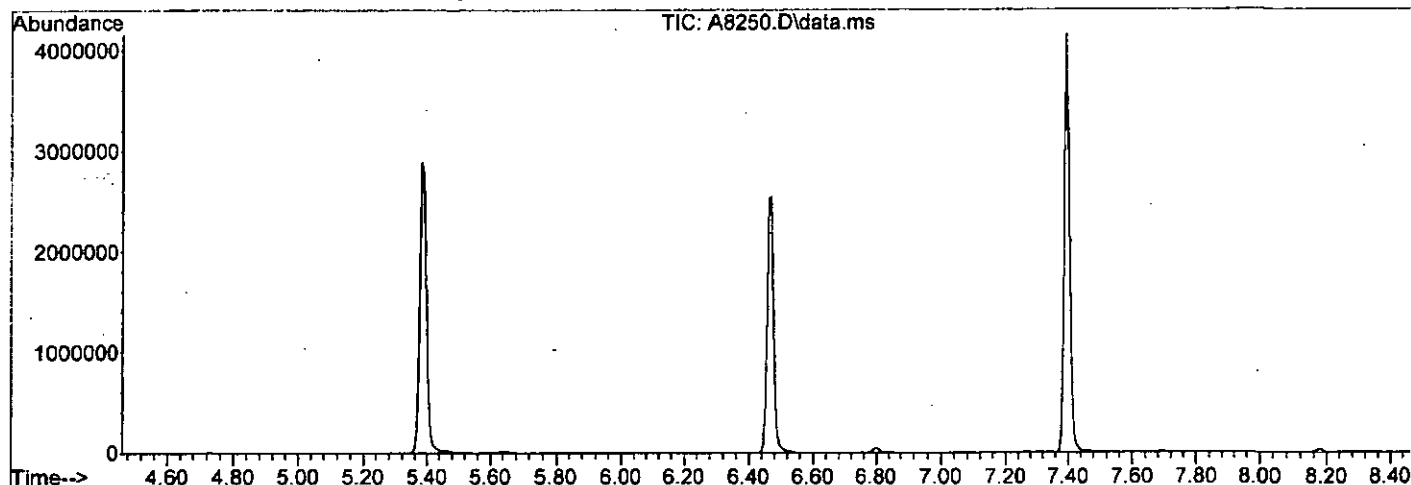
Data Path : I:\ACQUDATA\msvoa10\data\050615\
 Data File : A8250.D
 Acq On : 6 May 2015 3:32 pm
 Operator : F. NAEGLER
 Sample : TUNE
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA10

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T050615.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

FW 5/7/15



AutoFind: Scans 389, 390, 391; Background Corrected with Scan 384

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.7	114707	PASS
75	95	30	60	48.1	206805	PASS
95	95	100	100	100.0	430315	PASS
96	95	5	9	6.8	29200	PASS
173	174	0.00	2	1.0	3466	PASS
174	95	50	120	81.6	351083	PASS
175	174	5	9	7.4	25806	PASS
176	174	95	101	96.1	337237	PASS
177	176	5	9	6.4	21447	PASS

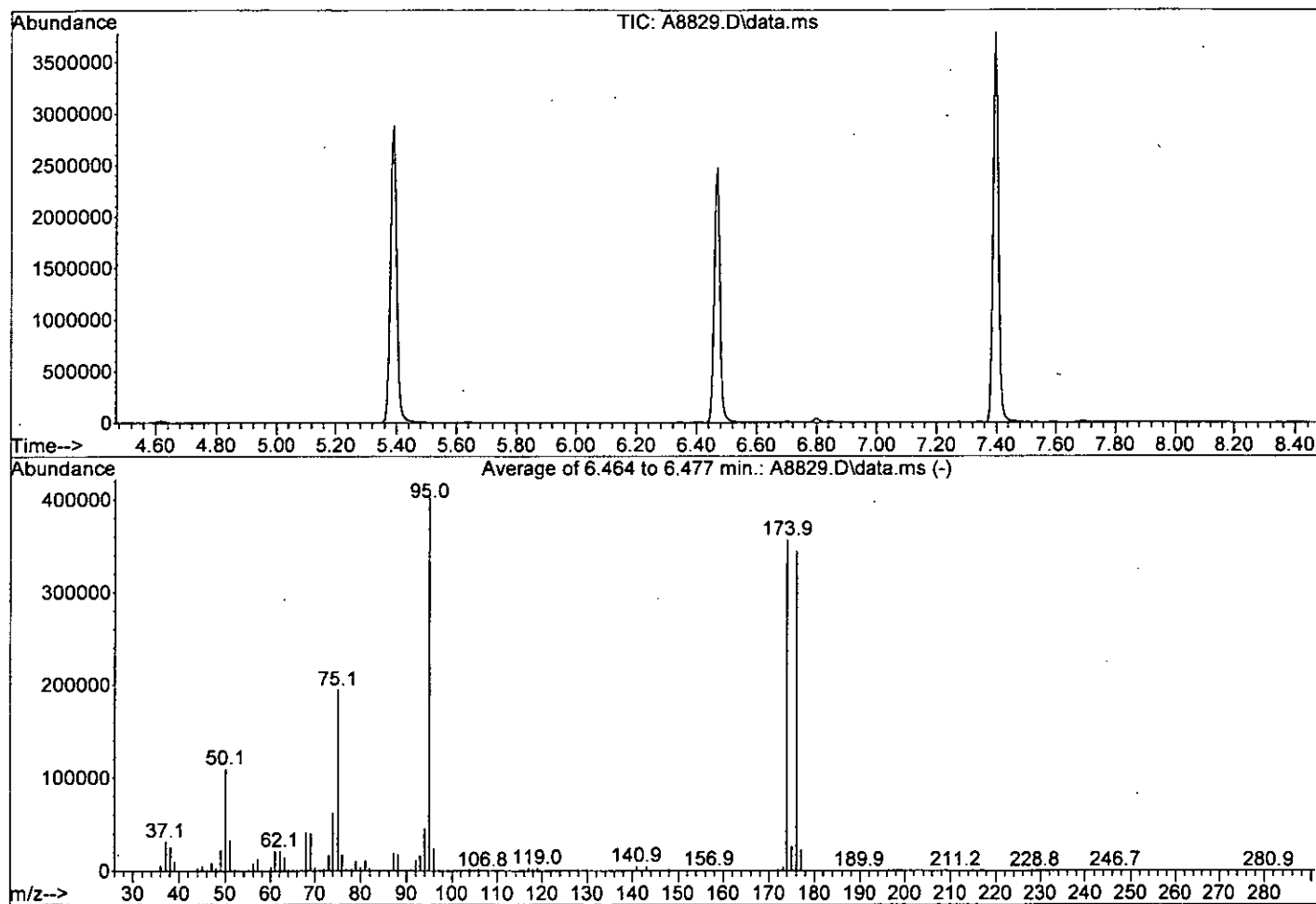
Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8829.D
 Acq On : 24 May 2015 8:53 pm
 Operator : F.Naegler
 Sample : TUNE *20150525-01*
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Inst : MSVOA10

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\T050615.M
 Title : 8260B WATERS
 Last Update : Wed Sep 27 14:33:13 2006

2015/25/15



AutoFind: Scans 390, 391, 392; Background Corrected with Scan 384

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	27.3	109451	PASS
75	95	30	60	48.4	194347	PASS
95	95	100	100	100.0	401515	PASS
96	95	5	9	5.9	23640	PASS
173	174	0.00	2	1.0	3642	PASS
174	95	50	120	88.7	356117	PASS
175	174	5	9	7.3	25939	PASS
176	174	95	101	96.6	344085	PASS
177	176	5	9	6.5	22416	PASS

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8851.D

Acq On : 25 May 2015 8:28 am

Operator : K.Ruest

Sample : TUNE RQ1504538-01, 5539-01

Inst : MSVOA10

Misc :

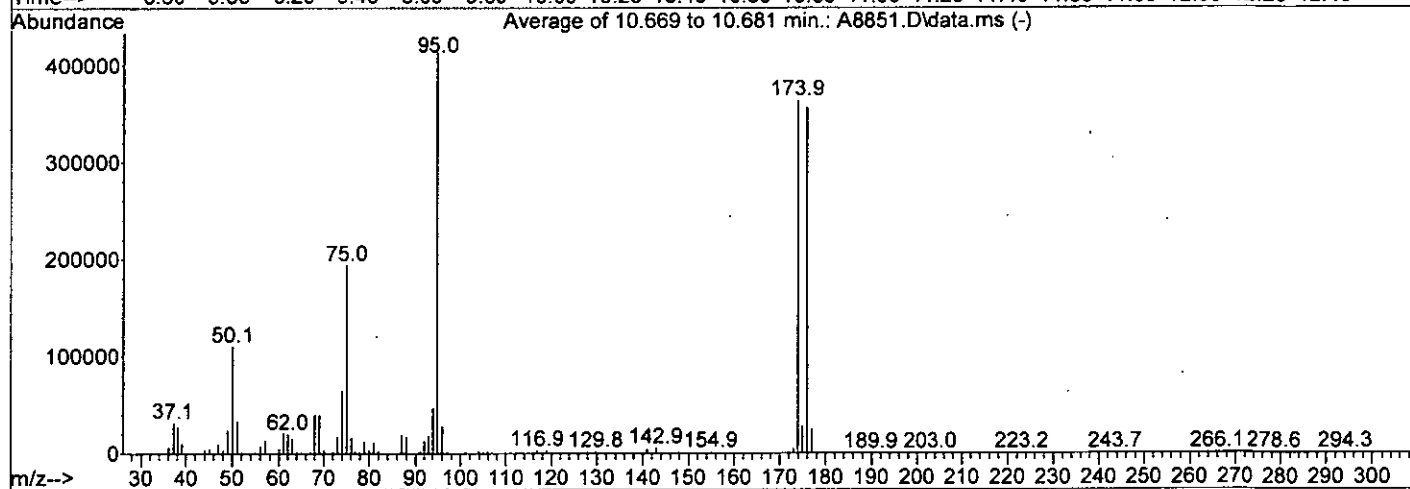
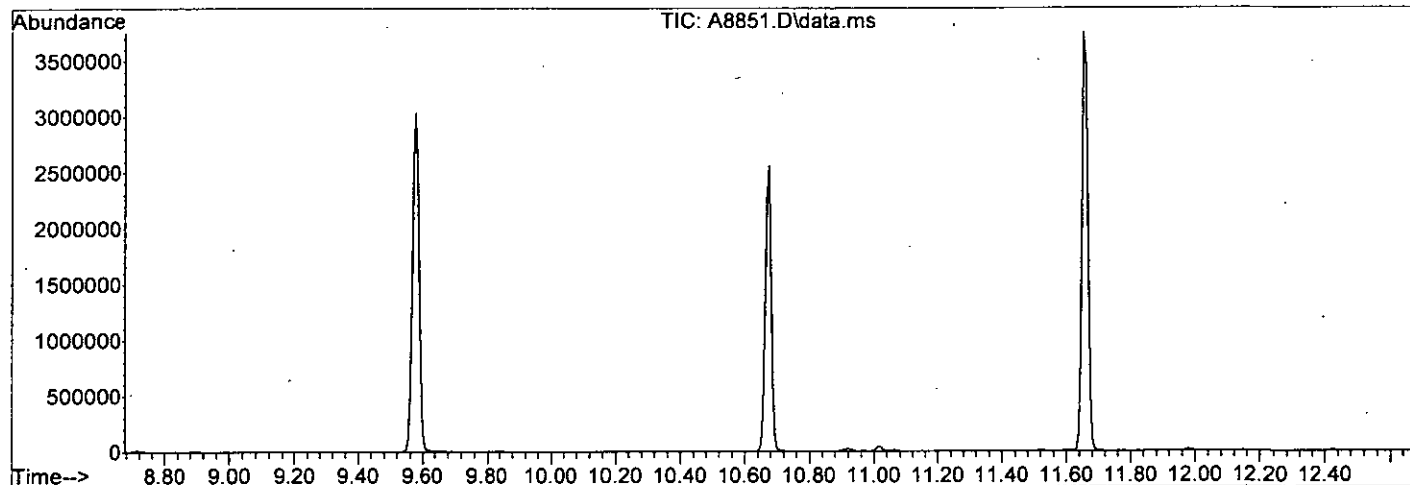
ALS Vial : 1 Sample Multiplier: 1

Integration File: CPD4.P

Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Title : MS#10 - 8260B WATERS 10mL Purge

Last Update : Thu May 07 14:25:48 2015



AutoFind: Scans 1580, 1581, 1582; Background Corrected with Scan 1574

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	26.6	109941	PASS
75	95	30	60	46.9	193547	PASS
95	95	100	100	100.0	413120	PASS
96	95	5	9	6.7	27619	PASS
173	174	0.00	2	1.1	4075	PASS
174	95	50	120	88.0	363541	PASS
175	174	5	9	7.5	27408	PASS
176	174	95	101	98.0	356373	PASS
177	176	5	9	6.9	24611	PASS

Blank
pages

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/Semiannual Groundwater - 148900
 Sample Matrix: Water

Service Request: R1503862
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/24/15 22:49

Sample Name: Method Blank
 Lab Code: RQ1505558-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8833.D\

Analysis Lot: 446162
 Instrument Name: R-MS-10
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/15 22:49

Sample Name: Method Blank
Lab Code: RQ1505558-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8833.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/24/15 22:49	
Toluene-d8	98	87-121	5/24/15 22:49	
Dibromofluoromethane	100	89-119	5/24/15 22:49	

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\

Data File : A8833.D

Acq On : 24 May 2015 10:49 pm

Operator : F.Naegler

Sample : MBLK

Misc :

ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 23:04:32 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	916036	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1423769	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1312859	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	729804	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.829	113	444347	50.01	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	= 100.02%	
46) surr1,1,2-dichloroetha...	5.414	65	464992	50.93	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	= 101.86%	
64) SURR3,Toluene-d8	8.041	98	1663961	49.12	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	= 98.24%	
69) SURR2,BFB	10.675	95	632430	45.94	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	= 91.88%	
Target Compounds						
15) Acetone	2.226	43	1127	Below Cal	#	Qvalue
16) 2-Propanol	2.323	45	1097	2.28	ug/L #	43
23) TBA	2.689	59	838	1.36	ug/L #	22
38) Tetrahydrofuran	4.512	42	801	0.30	ug/L #	35
~~88) Cyclohexanone~~	~~10.608~~	~~55~~	~~1022~~	~~2.42~~	~~ug/L #~~	~~47~~
114) 1,2,4-Tcbenzene	13.266	180	3218	0.26	ug/L #	76
115) Hexachlorobt	13.406	225	1633	0.31	ug/L #	82
116) Naphthalen	13.455	128	5370	0.23	ug/L	89
117) 1,2,3-Tclbenzene	13.650	180	3837	0.37	ug/L	81

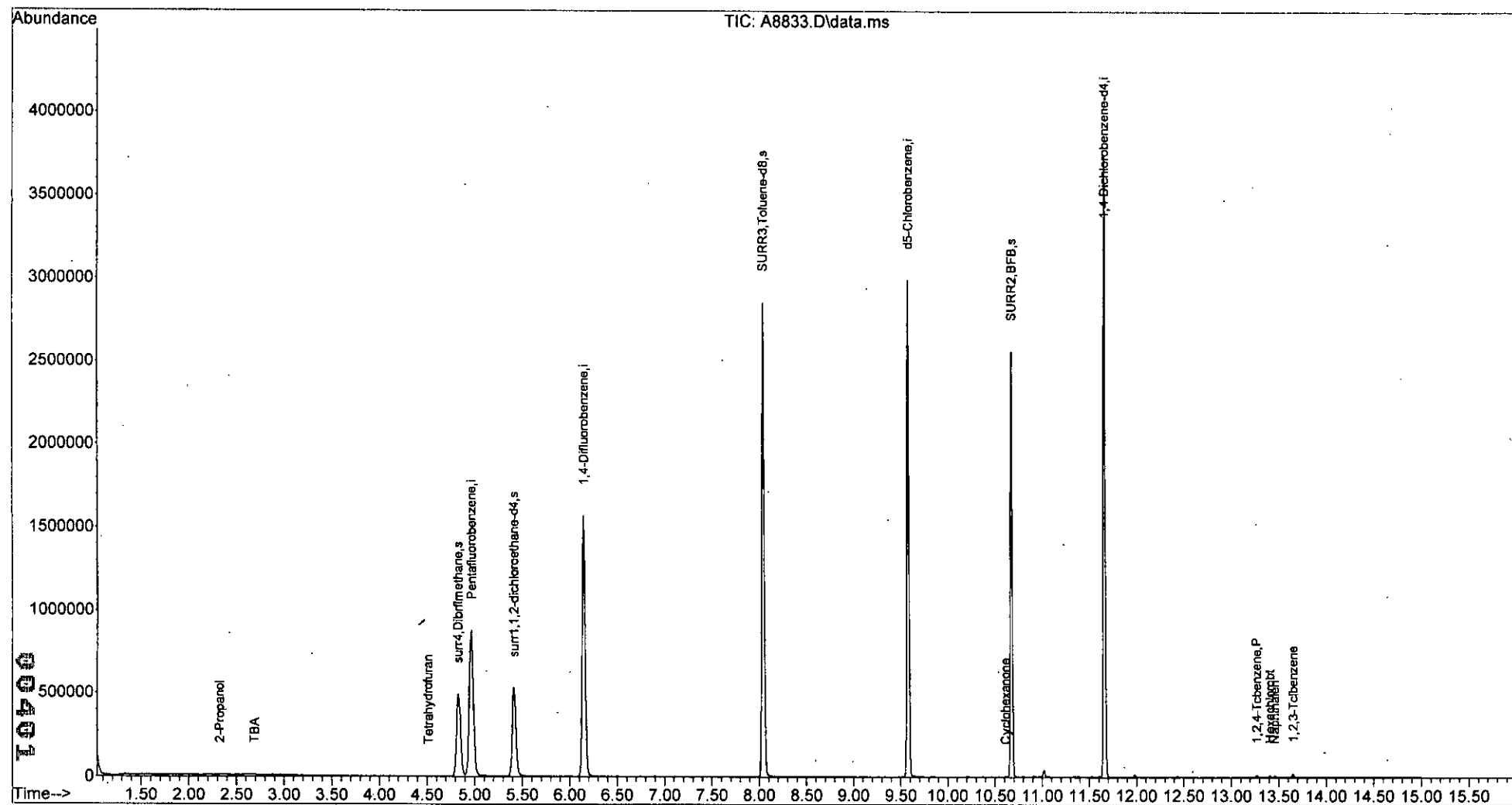
(#)=qualifier out of range (m)=manual integration (+)=signals summed

KP
 5/26/15

Data Path : I:\ACQUDATA\MSVOA10\DATA\052415\
Data File : A8833.D
Acq On : 24 May 2015 10:49 pm
Operator : F.Naegler
Sample : MBLK
Misc :
ALS Vial : 29 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 23:04:32 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 10:26

Sample Name: Method Blank
Lab Code: RQ1505539-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 10:26

Sample Name: Method Blank
Lab Code: RQ1505539-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8855.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85-122	5/25/15 10:26	
Toluene-d8	97	87-121	5/25/15 10:26	
Dibromofluoromethane	100	89-119	5/25/15 10:26	

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8855.D

Acq On : 25 May 2015 10:26 am

Operator : K.Ruest

Sample : VBLK *20150538-04, 539-04* Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 26 15:49:27 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	908841	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1411218	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1301936	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	729970	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrflmethane	4.835	113	441852	50.17	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 100.34%			
46) surr1,1,2-dichloroetha...	5.414	65	460014	50.83	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 101.66%			
64) SURR3,Toluene-d8	8.042	98	1634672	48.69	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 97.38%			
69) SURR2,BFB	10.675	95	623262	45.68	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 91.36%			
Target Compounds						
114) 1,2,4-Tcbenzene	13.266	180	2894	0.23	ug/L	Qvalue 83
115) Hexachlorobt	13.412	225	1429	0.28	ug/L #	81
116) Naphthalen	13.461	128	5559	0.24	ug/L	91
117) 1,2,3-Tclbenzene	13.644	180	3717	0.36	ug/L #	48

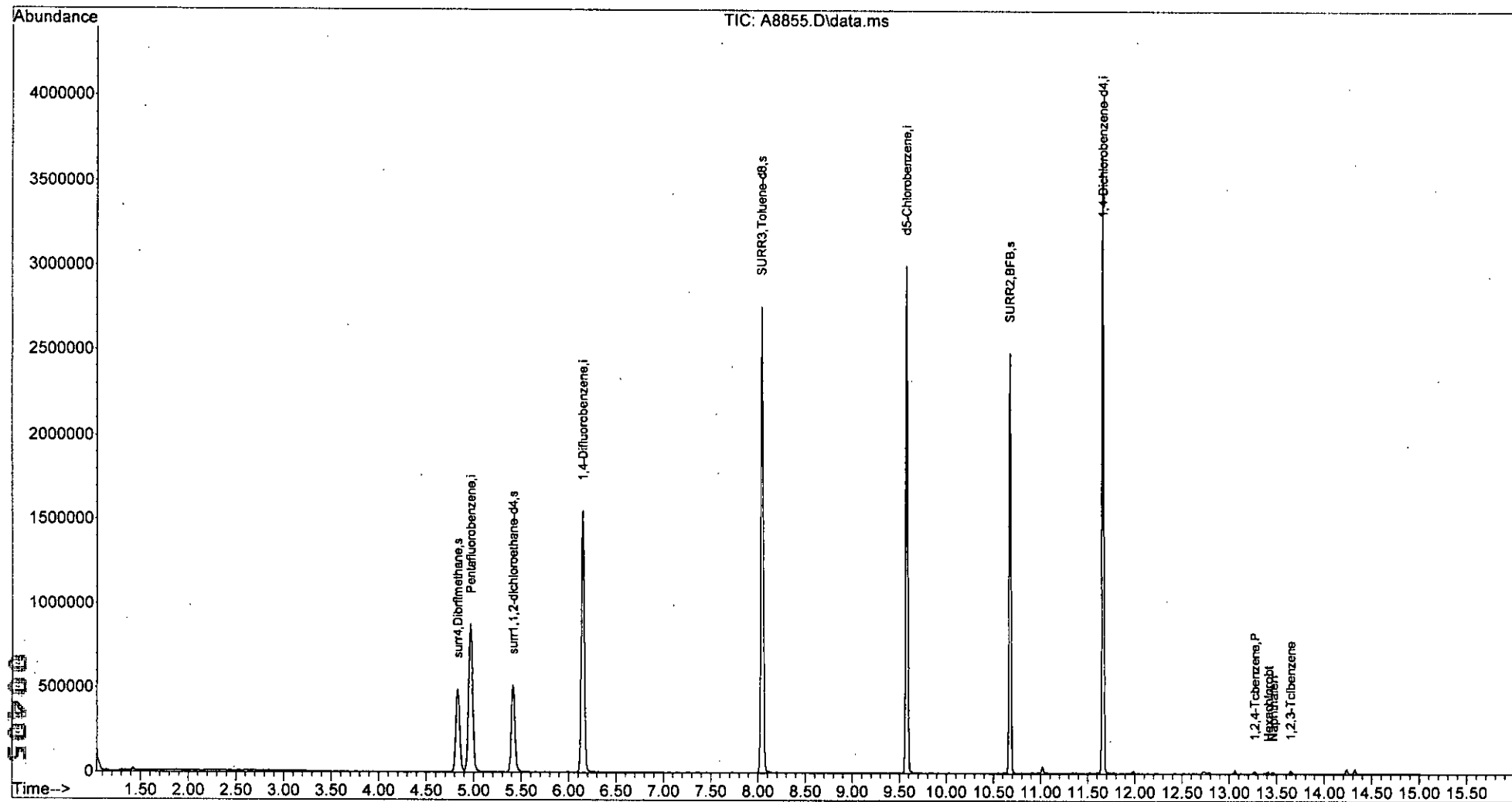
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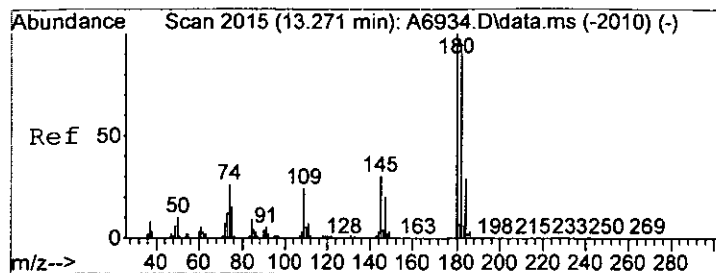
KR
5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8855.D
Acq On : 25 May 2015 10:26 am
Operator : K.Ruest
Sample : VBLK
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 15:49:27 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration

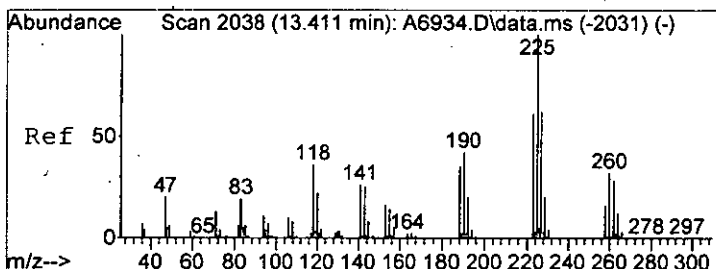
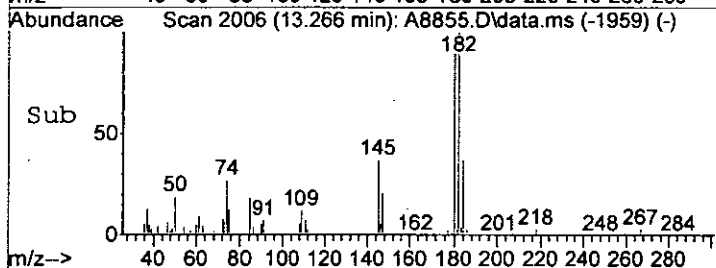
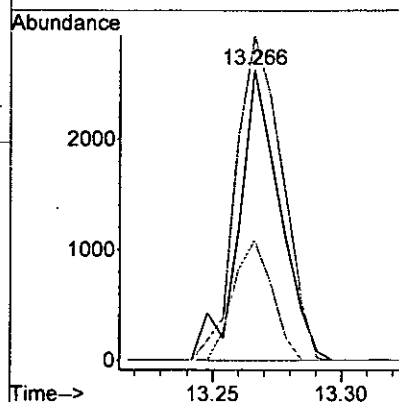
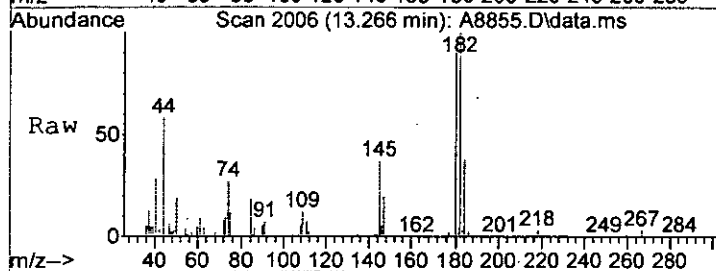




#114
1,2,4-Tcbenzene
Concen: 0.23 ug/L
RT: 13.266 min Scan# 2006
Delta R.T. -0.006 min
Lab File: A8855.D
Acq: 25 May 2015 10:26 am

Tgt Ion: 180 Resp: 2894

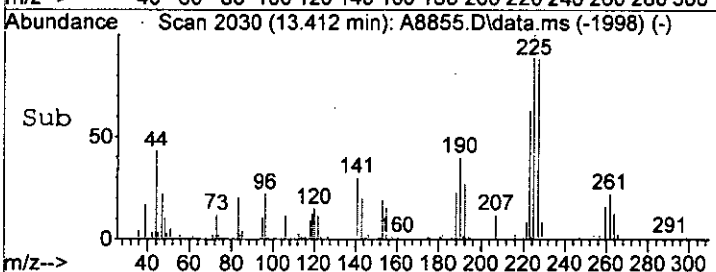
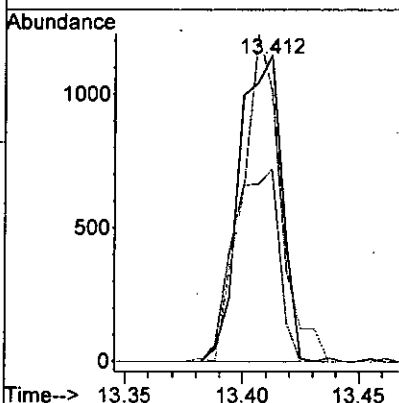
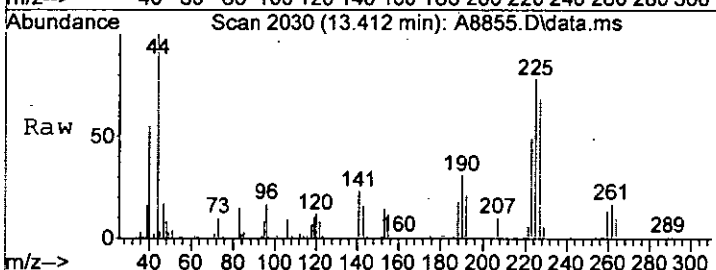
Ion	Ratio	Lower	Upper
180	100		
182	111.7	77.2	117.2
145	41.2	8.5	48.5

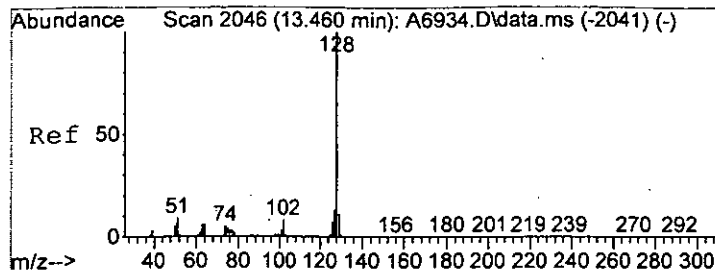


#115
Hexachlorobt
Concen: 0.28 ug/L
RT: 13.412 min Scan# 2030
Delta R.T. 0.000 min
Lab File: A8855.D
Acq: 25 May 2015 10:26 am

Tgt Ion: 225 Resp: 1429

Ion	Ratio	Lower	Upper
225	100		
223	62.8	40.4	80.4
227	87.9	42.0	82.0

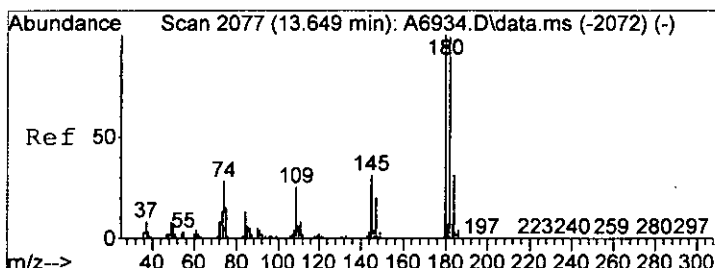
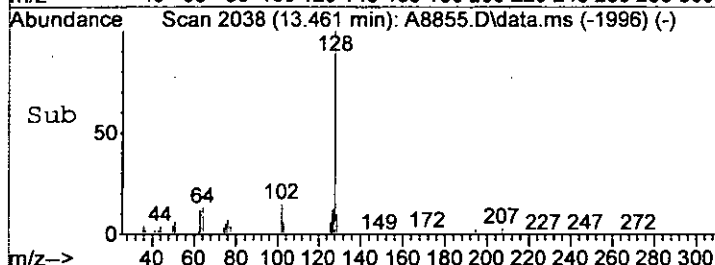
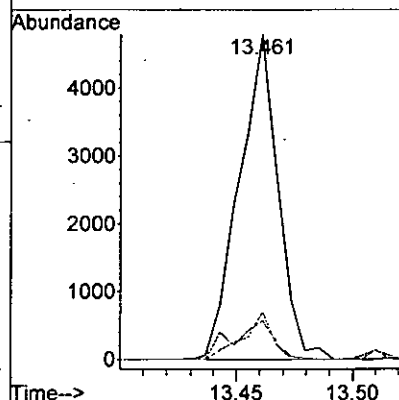
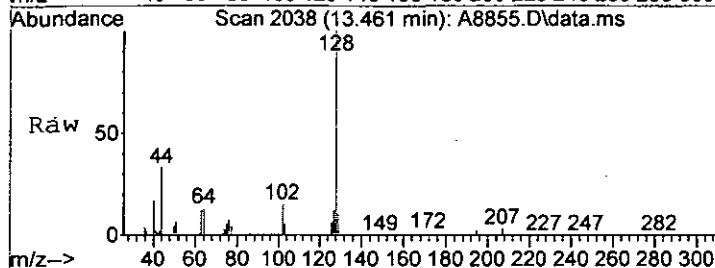




#116
Naphthalen
Concen: 0.24 ug/L
RT: 13.461 min Scan# 2038
Delta R.T. 0.000 min
Lab File: A8855.D
Acq: 25 May 2015 10:26 am

Tgt Ion: 128 Resp: 5559

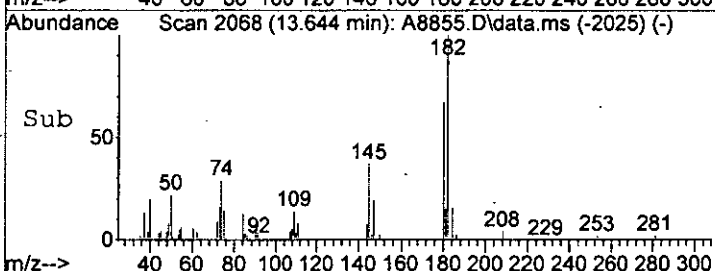
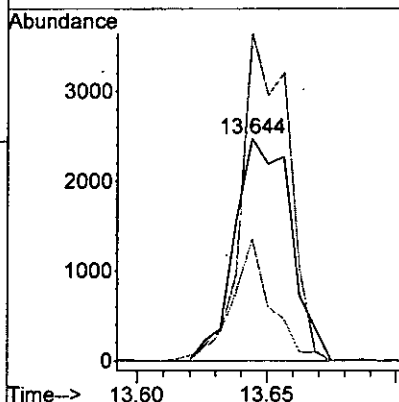
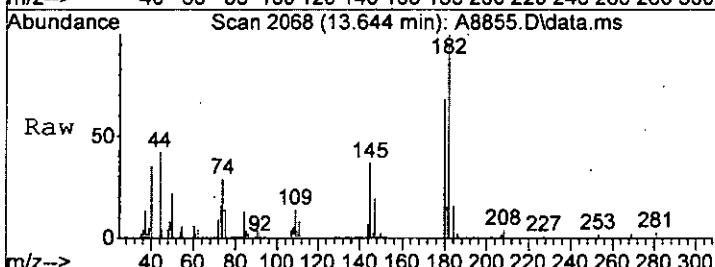
Ion	Ratio	Lower	Upper
128	100		
127	11.9	0.0	33.2
102	14.6	0.0	28.4



#117
1,2,3-Tolbenzene
Concen: 0.36 ug/L
RT: 13.644 min Scan# 2068
Delta R.T. -0.006 min
Lab File: A8855.D
Acq: 25 May 2015 10:26 am

Tgt Ion: 180 Resp: 3717

Ion	Ratio	Lower	Upper
180	100		
182	147.4	75.7	115.7#
145	54.7	9.6	49.6#



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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/15 21:50

Sample Name: Lab Control Sample
Lab Code: RQ1505558-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8831.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	18.4		1.0	0.21	
75-01-4	Vinyl Chloride	18.1		1.0	0.32	
75-00-3	Chloroethane	18.2		1.0	0.24	
74-83-9	Bromomethane	14.1		1.0	0.29	
75-35-4	1,1-Dichloroethene	19.1		1.0	0.57	
67-64-1	Acetone	16.1		5.0	1.3	
75-15-0	Carbon Disulfide	17.1		1.0	0.22	
75-09-2	Methylene Chloride	19.5		1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	19.5		1.0	0.33	
75-34-3	1,1-Dichloroethane	20.4		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	19.3		1.0	0.30	
78-93-3	2-Butanone (MEK)	19.0		5.0	0.81	
67-66-3	Chloroform	19.9		1.0	0.25	
71-55-6	1,1,1-Trichloroethane	19.7		1.0	0.36	
56-23-5	Carbon Tetrachloride	20.1		1.0	0.45	
71-43-2	Benzene	19.4		1.0	0.20	
107-06-2	1,2-Dichloroethane	20.3		1.0	0.36	
79-01-6	Trichloroethene	22.2		1.0	0.22	
78-87-5	1,2-Dichloropropane	19.6		1.0	0.20	
75-27-4	Bromodichloromethane	20.7		1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	18.8		1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	18.4		5.0	0.67	
108-88-3	Toluene	19.2		1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.20	
79-00-5	1,1,2-Trichloroethane	19.7		1.0	0.34	
127-18-4	Tetrachloroethene	18.8		1.0	0.30	
591-78-6	2-Hexanone	19.7		5.0	1.7	
124-48-1	Dibromochloromethane	21.6		1.0	0.31	
108-90-7	Chlorobenzene	20.6		1.0	0.29	
100-41-4	Ethylbenzene	18.0		1.0	0.20	
179601-23-1	m,p-Xylenes	40.5		2.0	0.33	
95-47-6	o-Xylene	19.7		1.0	0.20	
100-42-5	Styrene	20.5		1.0	0.20	
75-25-2	Bromoform	22.2		1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/24/15 21:50

Sample Name: Lab Control Sample
Lab Code: RQ1505558-03

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8831.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/24/15 21:50	
Toluene-d8	98	87-121	5/24/15 21:50	
Dibromofluoromethane	101	89-119	5/24/15 21:50	

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8831.D

Acq On : 24 May 2015 9:50 pm

Operator : F.Naegler

Sample : LCS *20150525-03*

Misc :

ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 08:44:03 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	973748	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1483141	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1362078	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	753812	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrfilmethane	4.829	113	467476	50.51	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	101.02%		
46) surr1,1,2-dichloroetha...	5.414	65	475607	50.01	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	100.02%		
64) SURR3,Toluene-d8	8.042	98	1723695	48.85	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	97.70%		
69) SURR2,BFB	10.675	95	660977	46.09	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	92.18%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	182811m	18.08	ug/L	
3) Chloromethane	1.281	50	339575	18.35	ug/L	99
4) Vinyl Chloride	1.348	62	243443	18.06	ug/L	96
5) Bromomethane	1.573	94	78719	14.11	ug/L	96
6) Chloroethane	1.634	64	120509	18.20	ug/L	95
7) Freon 21	1.762	67	384146	23.75	ug/L	98
8) Trichlorofluoromethane	1.811	101	255150	19.60	ug/L	99
9) Diethyl Ether	2.012	59	164892m	21.03	ug/L	
10) Freon 123a	2.012	67	220050	22.28	ug/L	94
11) Freon 123	2.061	83	220790m	20.21	ug/L	
12) Acrolein	2.110	56	40947	27.81	ug/L	96
13) 1,1-Dicethene	2.195	96	137178	19.12	ug/L #	82
14) Freon 113	2.195	101	135786	18.09	ug/L	98
15) Acetone	2.226	43	54179	16.07	ug/L	90
16) 2-Propanol	2.329	45	227110	444.85	ug/L	92
17) Iodomethane	2.323	142	67205	6.33	ug/L	90
18) Carbon Disulfide	2.378	76	439591	17.06	ug/L	99
19) Acetonitrile	2.451	40	52141	116.16	ug/L	98
20) Allyl Chloride	2.488	76	78197	16.75	ug/L #	1
21) Methyl Acetate	2.500	43	139645	19.69	ug/L	80
22) Methylene Chloride	2.597	84	171991	19.54	ug/L #	64
23) TBA	2.695	59	279410	427.26	ug/L	69
24) Acrylonitrile	2.817	53	322051	102.30	ug/L	99
25) Methyl-t-Butyl Ether	2.860	73	390296	19.03	ug/L	87
26) trans-1,2-Dichloroethene	2.860	96	157767	19.54	ug/L #	82
27) 1,1-Dicethane	3.305	63	368319	20.43	ug/L	95
28) Vinyl Acetate	3.378	86	10798	7.43	ug/L #	93
30) 2-Chloro-1,3-Butadiene	3.414	53	346253	16.51	ug/L	84
32) 2,2-Dichloropropane	4.055	77	167711	14.40	ug/L	91
33) cis-1,2-Dichloroethene	4.055	96	186812	19.30	ug/L	86
34) 2-Butanone	4.091	43	87186	19.03	ug/L	85
35) Propionitrile	4.164	54	116487	102.46	ug/L	100
36) Bromochloromethane	4.408	130	125220	21.04	ug/L #	66
37) Methacrylonitrile	4.408	67	49914	18.58	ug/L #	50

10/5/25/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8831.D

Acq On : 24 May 2015 9:50 pm

Operator : F.Naegler

Sample : LCS

Inst : MSVOA10

Misc :

ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 25 08:44:03 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.500	42	55029	19.43	ug/L	78
39) Chloroform	4.561	83	319808	19.94	ug/L	97
40) 1,1,1-Trichloroethane	4.853	97	269059	19.72	ug/L	93
42) Cyclohexane	4.951	41	271472	19.25	ug/L	87
44) Carbontetrachloride	5.152	121	73582	20.08	ug/L	86
45) 1,1-Dichloropropene	5.164	75	219411	18.30	ug/L	98
47) Benzene	5.505	78	722746	19.44	ug/L	85
48) 1,2-Dichloroethane	5.542	62	261009	20.34	ug/L	93
49) Iso-Butyl Alcohol	5.487	43	152148	394.66	ug/L	95
51) n-Heptane	6.005	43	262563	16.25	ug/L	80
53) Trichloroethene	6.493	130	228441	22.24	ug/L	96
54) Methylcyclohexane	6.743	55	280230	18.45	ug/L #	78
55) 1,2-Dicloropropane	6.792	63	215180	19.64	ug/L	100
56) Dibromomethane	6.938	93	93558	19.41	ug/L	94
57) 1,4-Dioxane	6.999	88	26471m	484.09	ug/L	
58) Methyl Methacrylate	7.023	69	87852m	20.35	ug/L	
59) Bromodichloromethane	7.170	83	239488	20.74	ug/L	97
60) 2-Nitropropane	7.468	41	56834	44.94	ug/L	99
61) 2-Chloroethylvinyl Ether	7.596	63	89558	17.48	ug/L	87
62) cis-1,3-Dichloropropene	7.737	75	245804	18.78	ug/L	97
63) 4-Methyl-2-pentanone	7.950	43	172875	18.42	ug/L	86
65) Toluene	8.121	91	770812	19.20	ug/L	97
66) trans-1,3-Dichloropropene	8.395	75	206785	18.96	ug/L	98
67) Ethyl Methacrylate	8.541	69	171841	19.99	ug/L #	46
68) 1,1,2-Trichloroethane	8.590	97	140693	19.66	ug/L	99
71) Tetrachloroethene	8.730	164	154087	18.82	ug/L	96
72) 2-Hexanone	8.889	43	120998	19.69	ug/L	87
73) 1,3-Dichloropropane	8.767	76	247040	20.76	ug/L #	79
74) Dibromochloromethane	8.999	129	175544	21.61	ug/L	97
75) N-Butyl Acetate	9.054	43	290131	19.66	ug/L	92
76) 1,2-Dibromoethane	9.096	107	140130	21.13	ug/L	96
78) Chlorobenzene	9.602	112	552141	20.62	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.694	131	181619	19.81	ug/L	97
81) Ethylbenzene	9.724	106	252734	17.99	ug/L	93
82) (m+p)Xylene	9.840	106	685088	40.54	ug/L #	86
83) o-Xylene	10.206	106	329821	19.67	ug/L	98
84) Styrene	10.218	104	581241	20.47	ug/L	100
85) Bromoform	10.376	173	98221	22.21	ug/L	97
87) Isopropylbenzene	10.547	105	848753	20.61	ug/L	99
88) Cyclohexanone	10.608	55	202064	460.53	ug/L	90
89) trans-1,4-Dichloro-2-B...	10.864	53	48479	16.31	ug/L	86
91) 1,1,2,2-Tetrachloroethane	10.815	83	146713	19.06	ug/L	98
92) Bromobenzene	10.797	156	230939	21.15	ug/L #	87
93) 1,2,3-Trichloropropane	10.840	110	49418	21.81	ug/L	97
94) n-Propylbenzene	10.907	91	1007444	22.49	ug/L	98
95) 2-Chlorotoluene	10.974	91	606567	21.60	ug/L	96
97) 4-Chlorotoluene	11.065	91	735875	21.98	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	720646	21.55	ug/L	97
99) tert-Butylbenzene	11.340	119	604920	20.83	ug/L	96
100) 1,2,4-Trimethylbenzene	11.376	105	752102	22.02	ug/L	96
102) sec-Butylbenzene	11.523	105	830836	21.07	ug/L	98

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8831.D
Acq On : 24 May 2015 9:50 pm
Operator : F.Naegler
Sample : LCS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 08:44:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration

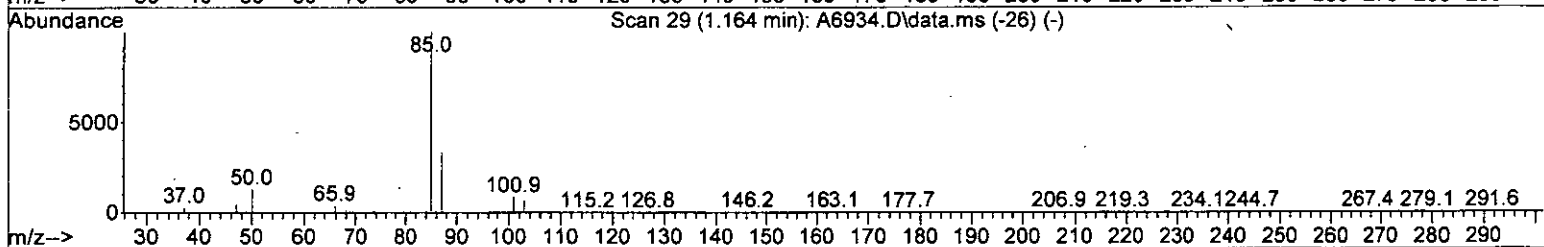
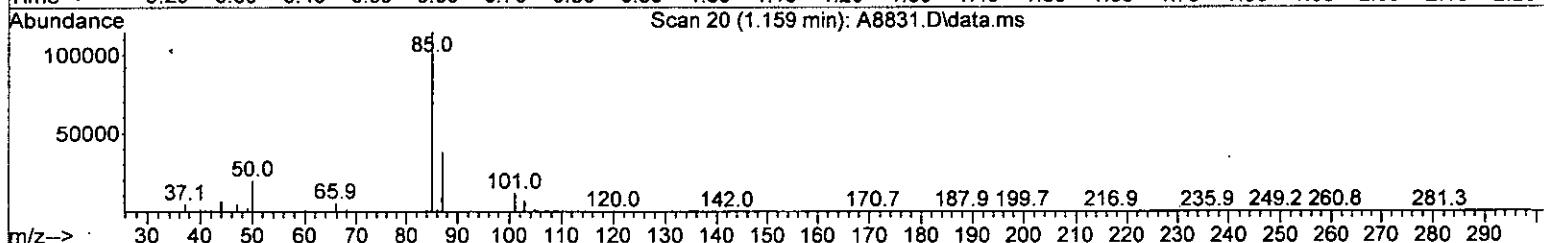
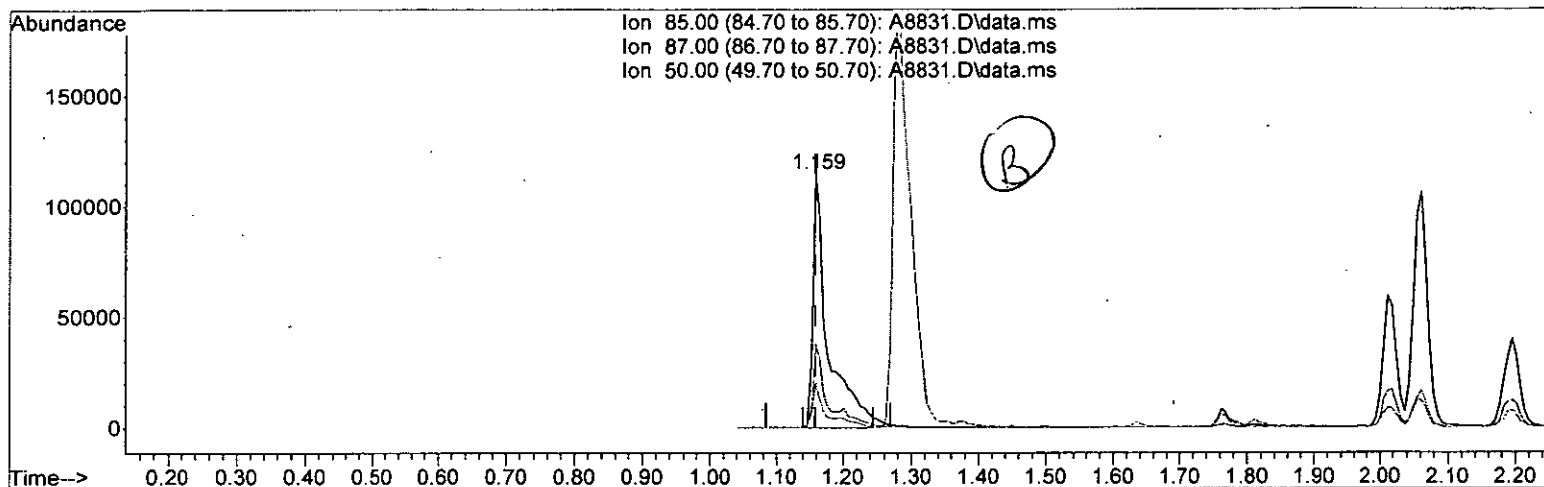
	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
103)	p-Isopropyltoluene	11.644	119	760535	21.65 ug/L	97
104)	1,3-Dclbenz	11.602	146	466078	20.97 ug/L	98
105)	1,4-Dclbenz	11.681	146	491733	21.11 ug/L	96
108)	n-Butylbenzene	11.980	91	643230	20.74 ug/L	96
109)	1,2-Dclbenz	11.980	146	443618	21.60 ug/L	98
110)	1,2-Dibromo-3-chloropr...	12.608	157	33146	23.53 ug/L	84
114)	1,2,4-Tcbenzene	13.266	180	272214	21.03 ug/L	95
115)	Hexachlorobt	13.406	225	104127	19.43 ug/L	98
116)	Naphthalen	13.461	128	549259	22.65 ug/L	98
117)	1,2,3-Tclbenzene	13.650	180	235731	22.12 ug/L	99

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

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8831.D
 Acq On : 24 May 2015 9:50 pm
 Operator : F.Naegler
 Sample : LCS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8831.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 17.69 ug/L

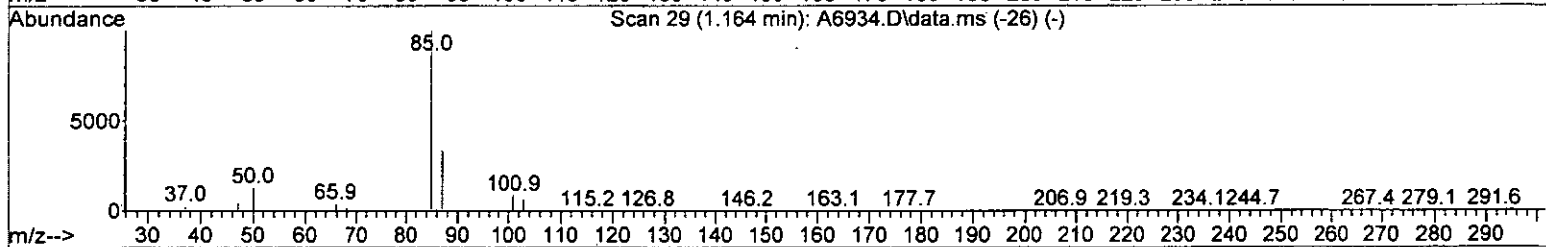
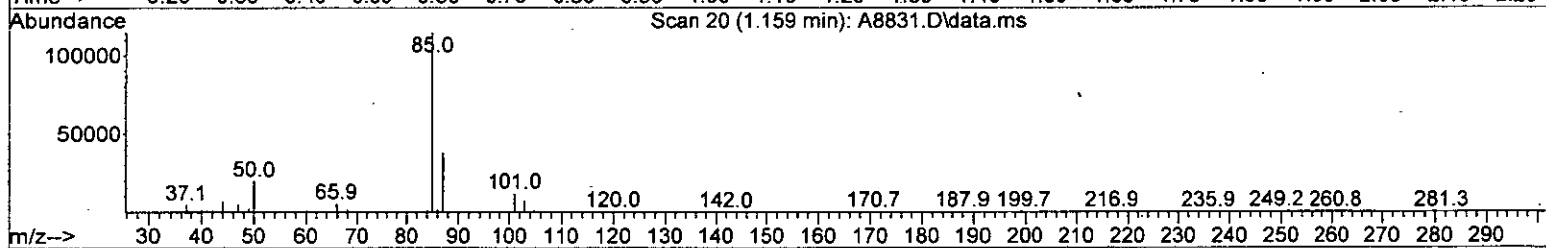
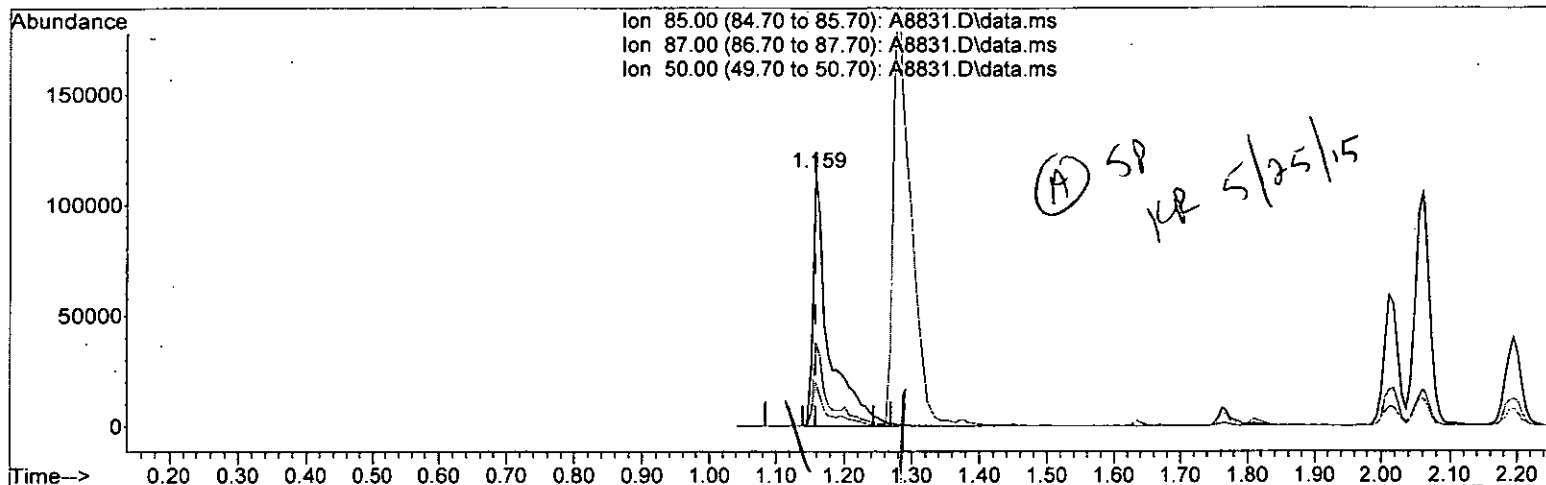
response 178887

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	32.97
50.00	15.00	17.16
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8831.D
Acq On : 24 May 2015 9:50 pm
Operator : F.Naegler
Sample : LCS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8831.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 18.08 ug/L m

response 182811

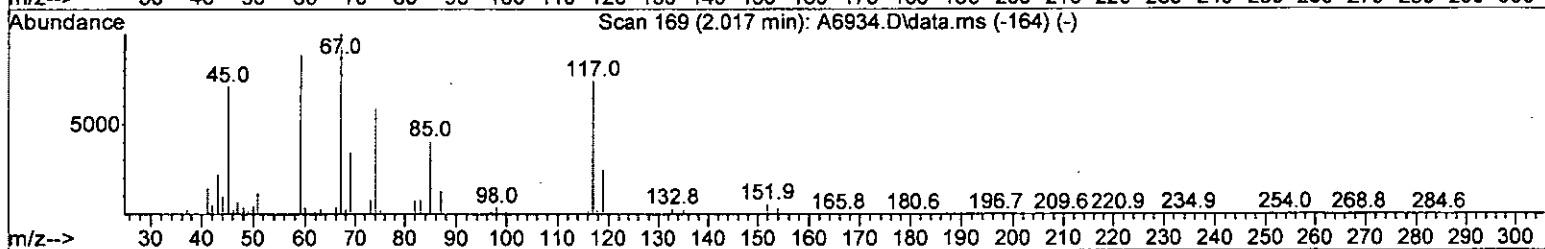
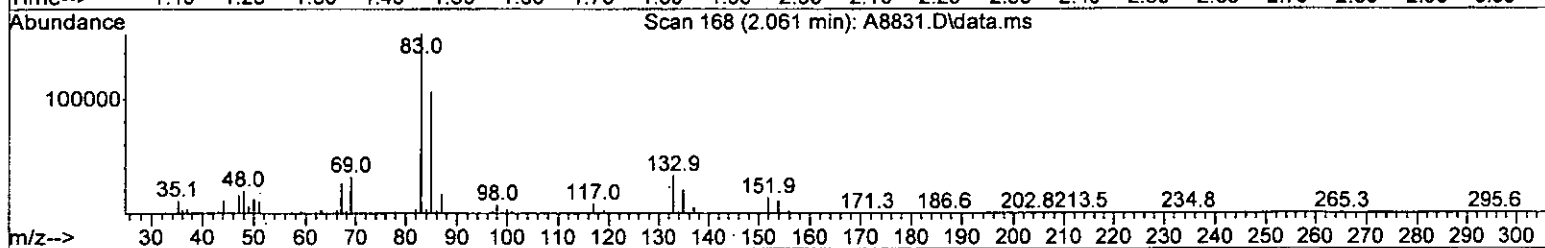
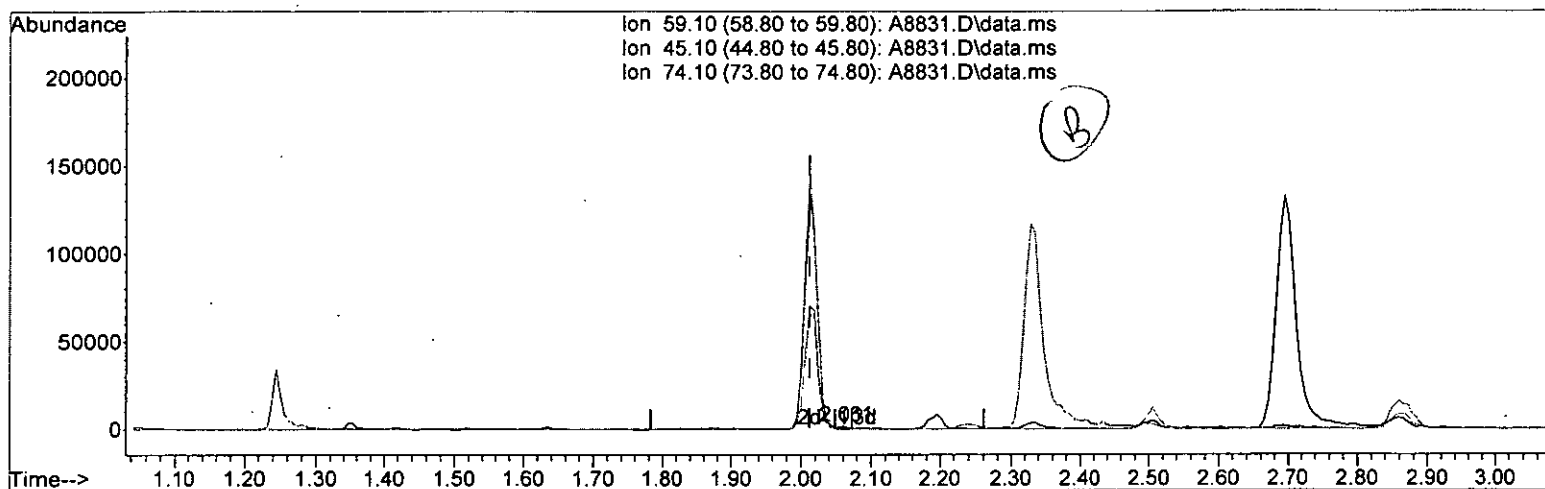
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	32.97
50.00	15.00	17.16
0.00	0.00	0.00

my
je

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8831.D
 Acq On : 24 May 2015 9:50 pm
 Operator : F.Naegler
 Sample : LCS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8831.D\data.ms

(9) Diethyl Ether

2.061min (+0.049) 0.18 ug/L

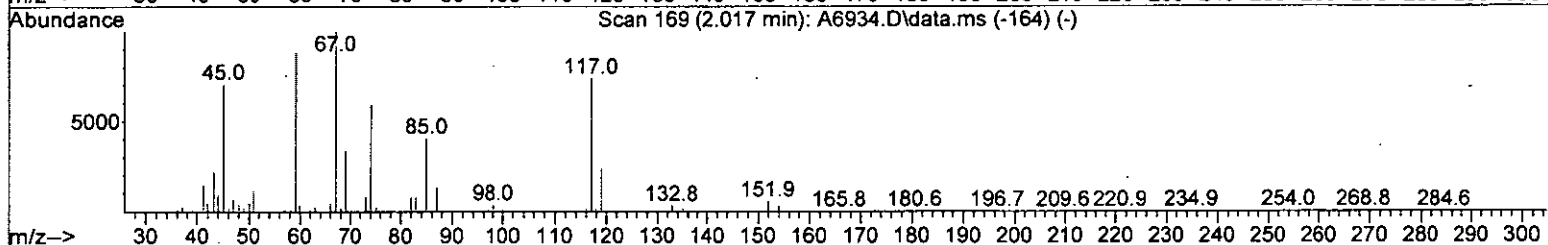
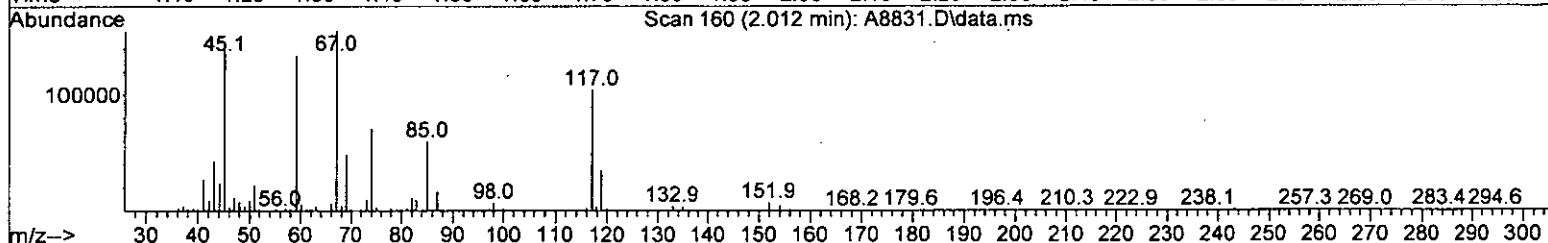
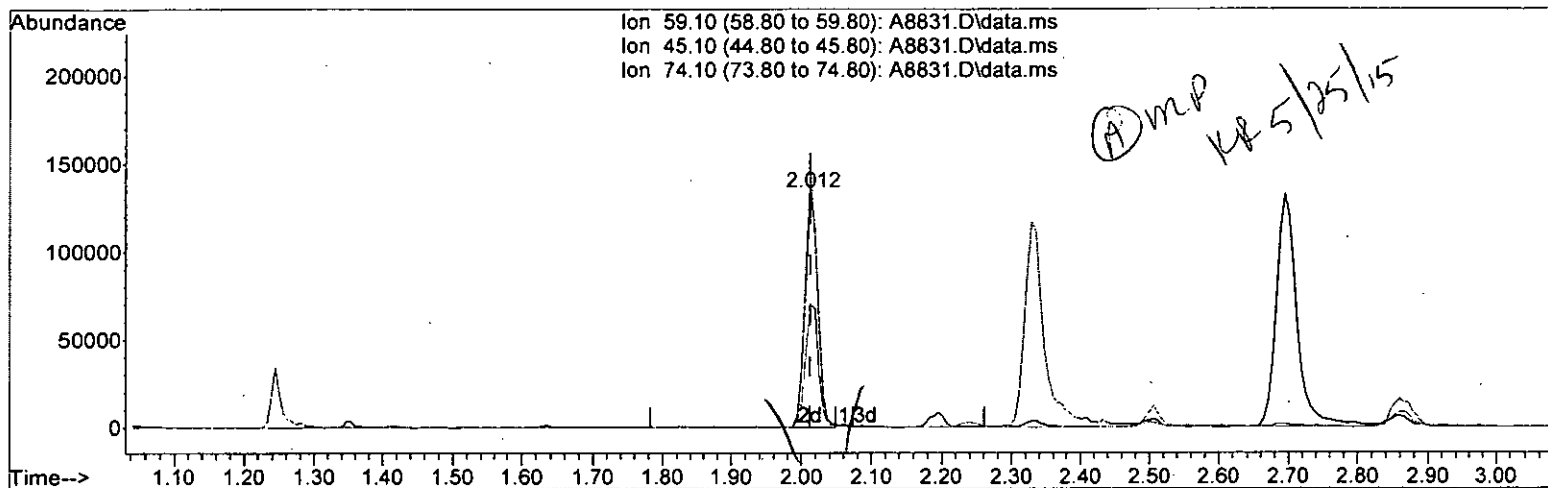
response 1448

Ion	Exp%	Act%
59.10	100	100
45.10	73.90	62.11
74.10	64.70	58.60
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8831.D
Acq On : 24 May 2015 9:50 pm
Operator : F.Naegler
Sample : LCS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8831.D\data.ms

(9) Diethyl Ether

2.012min (+0.000) 21.03 ug/L m

response 164892

Ion	Exp%	Act%
59.10	100	100
45.10	73.90	107.99#
74.10	64.70	52.55
0.00	0.00	0.00

mm

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8831.D

Acq On : 24 May 2015 9:50 pm

Operator : F.Naegler

Sample : LCS

Misc :

ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

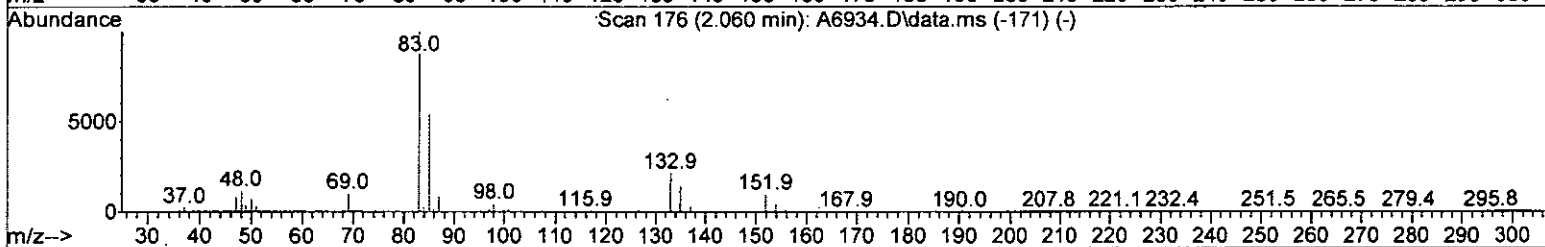
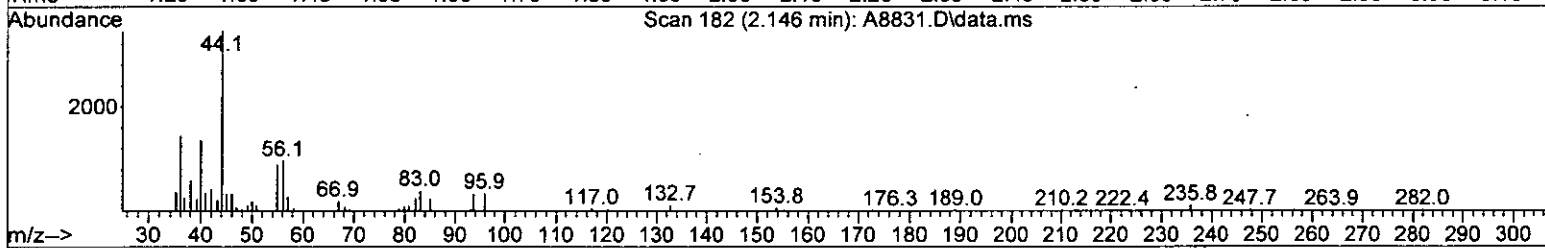
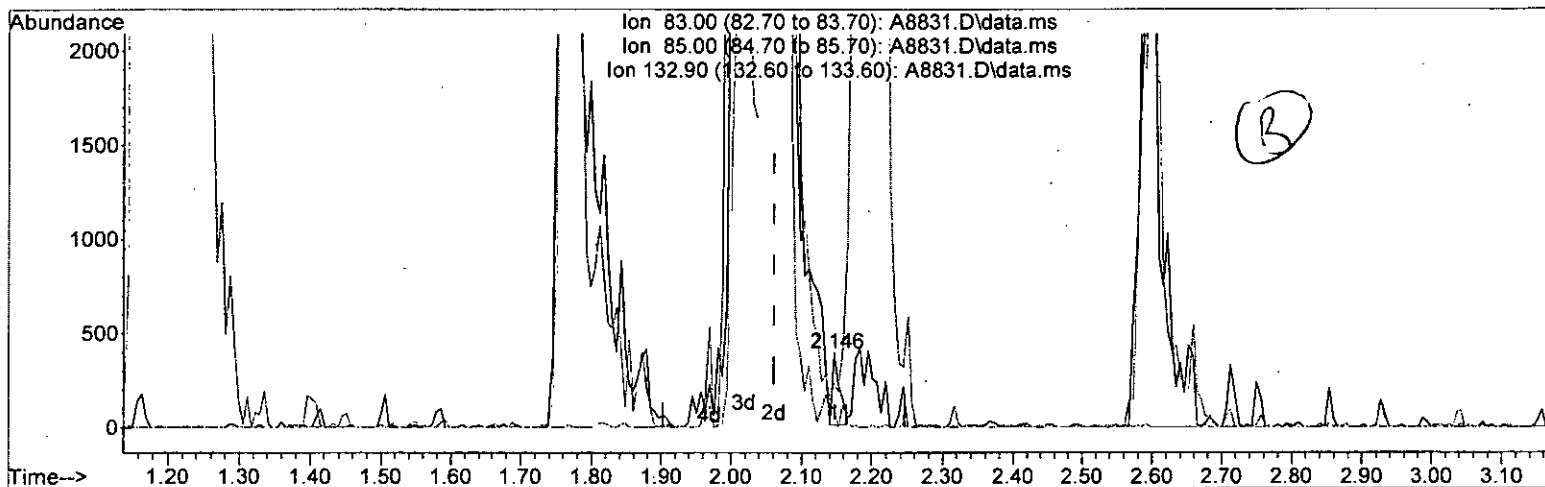
Quant Time: May 24 22:05:12 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



TIC: A8831.D\data.ms

(11) Freon 123

2.146min (+0.085) 0.03 ug/L

response 278

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	58.38
132.90	19.90	29.70
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8831.D

Acq On : 24 May 2015 9:50 pm

Operator : F.Naegler

Sample : LCS

Misc :

Inst : MSVOA10

ALS Vial : 27 Sample Multiplier: 1

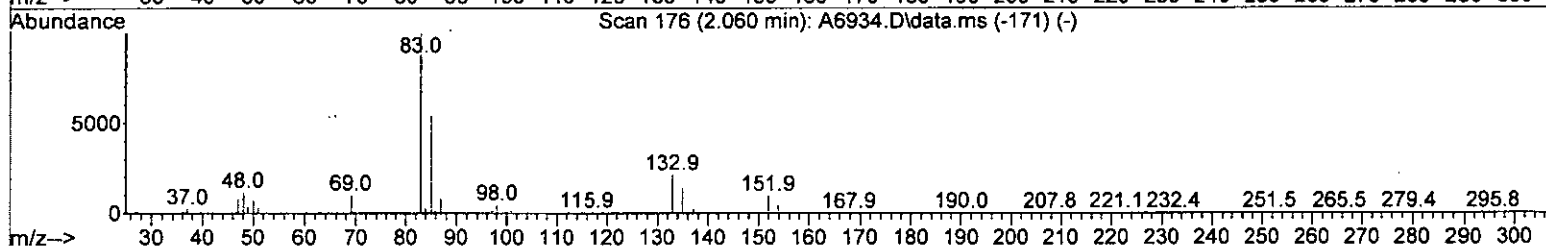
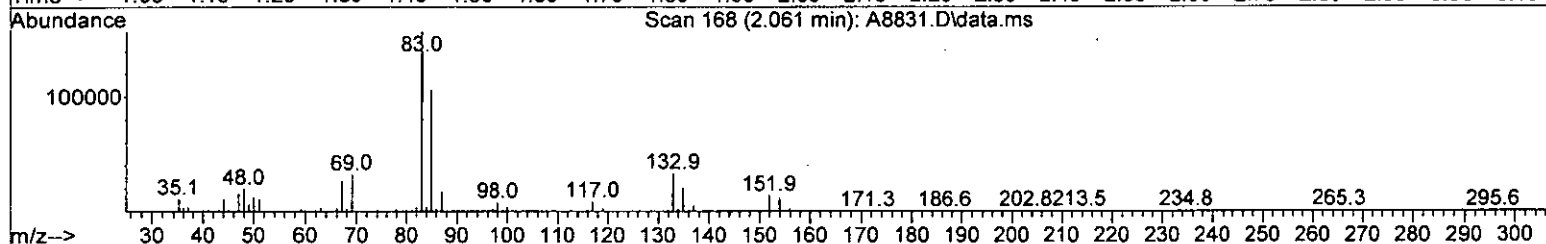
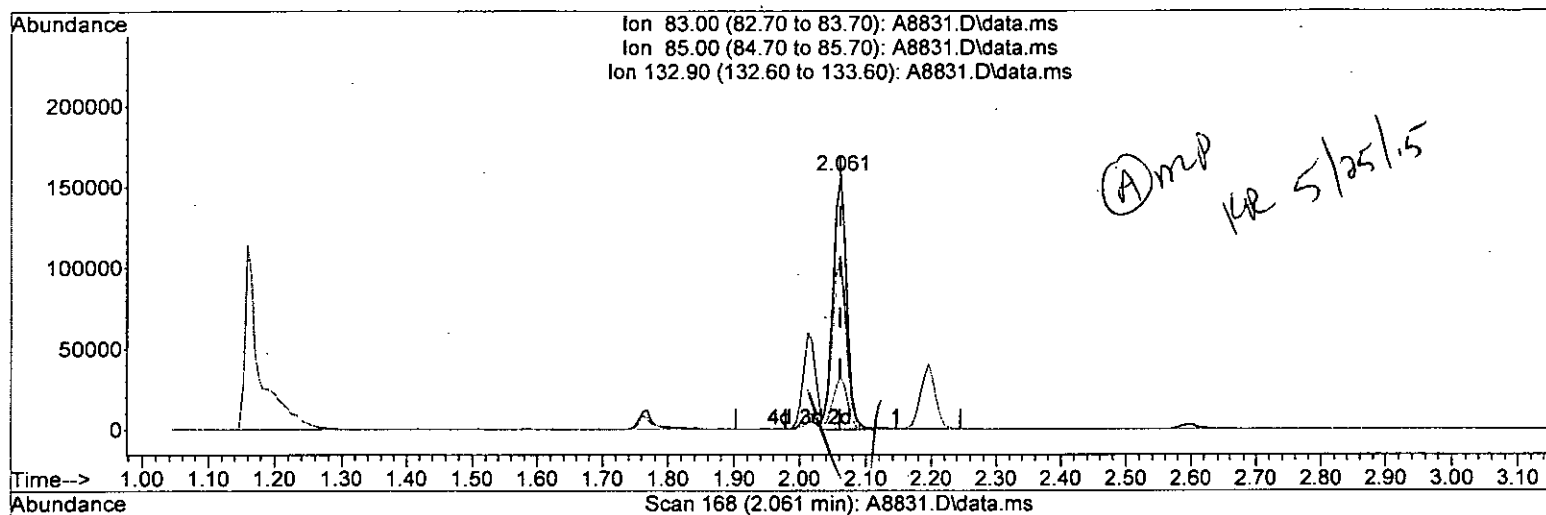
Quant Time: May 24 22:05:12 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



(11) Freon 123

2.061min (+0.000) 20.21 ug/L m

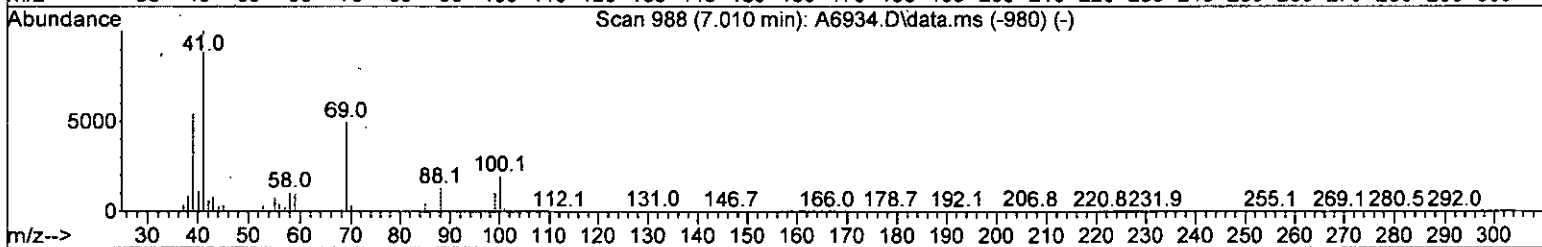
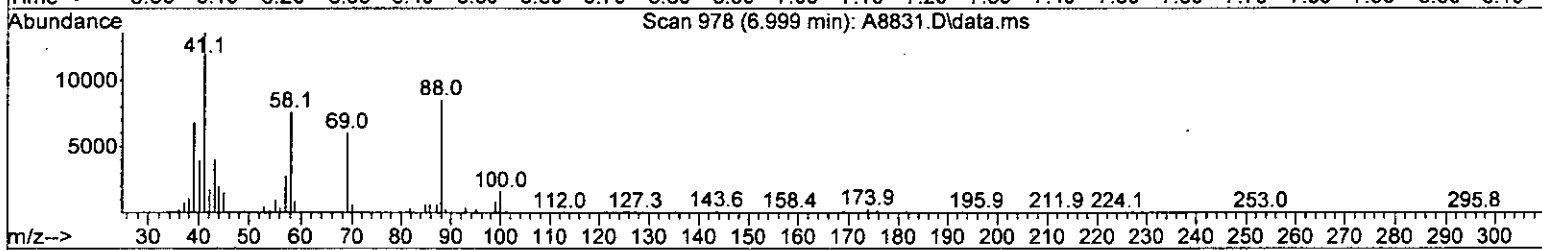
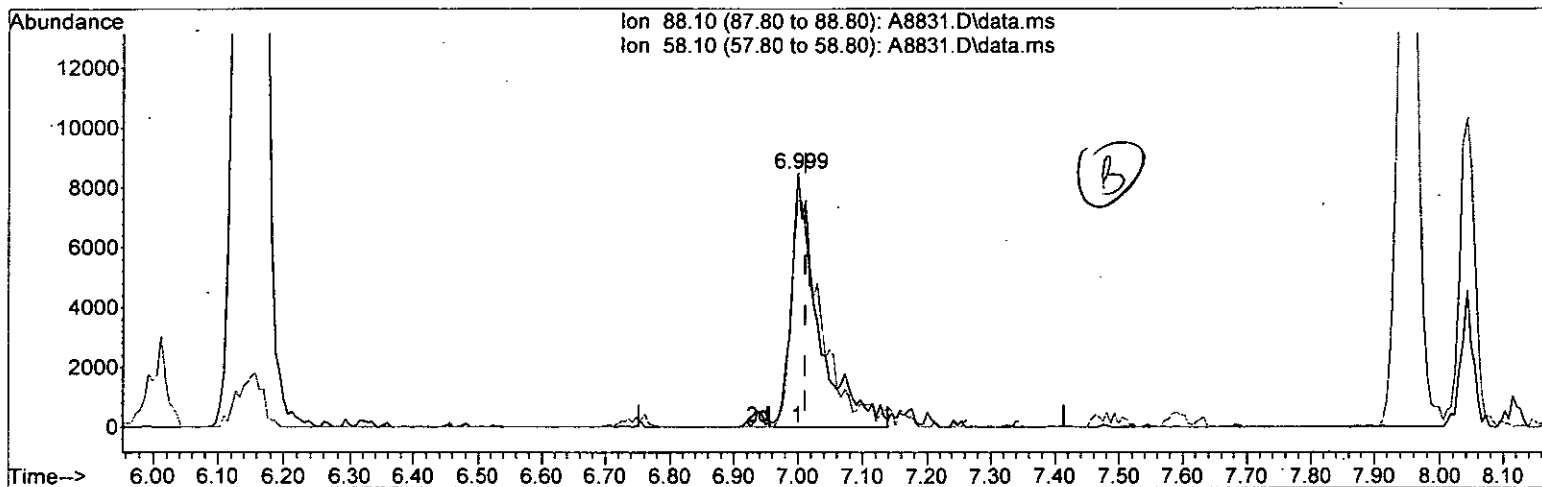
response 220790

Ion	Exp%	Act%
83.00	100	100
85.00	47.30	67.62#
132.90	19.90	20.97
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8831.D
Acq On : 24 May 2015 9:50 pm
Operator : F.Naegler
Sample : LCS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8831.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.012) 457.39 ug/L

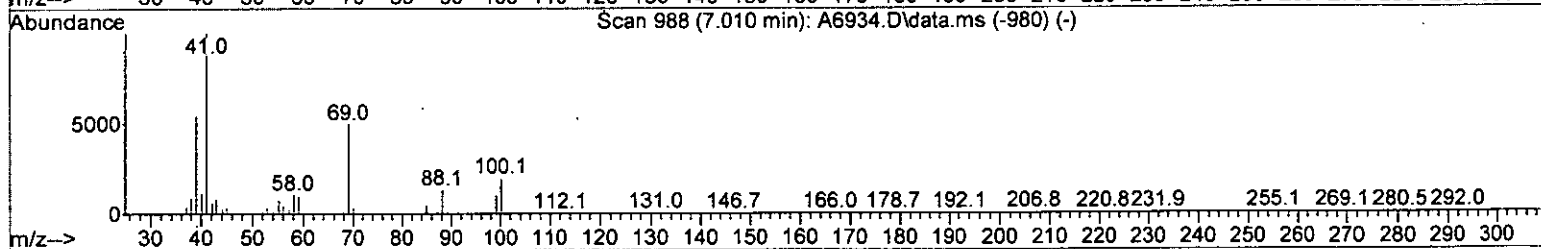
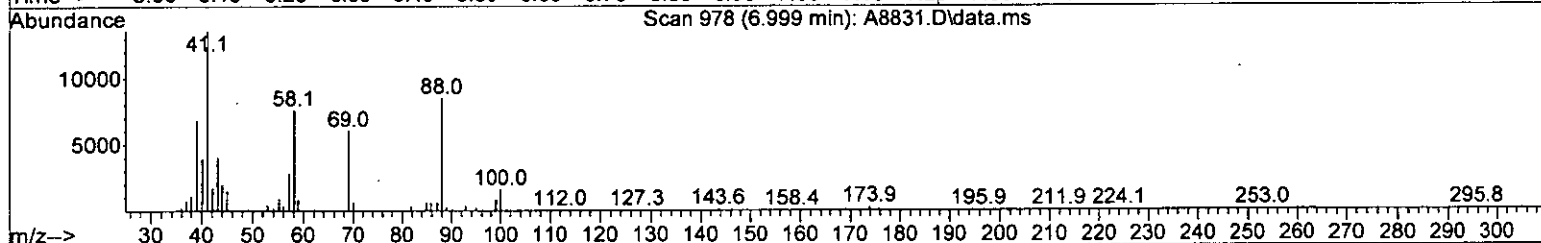
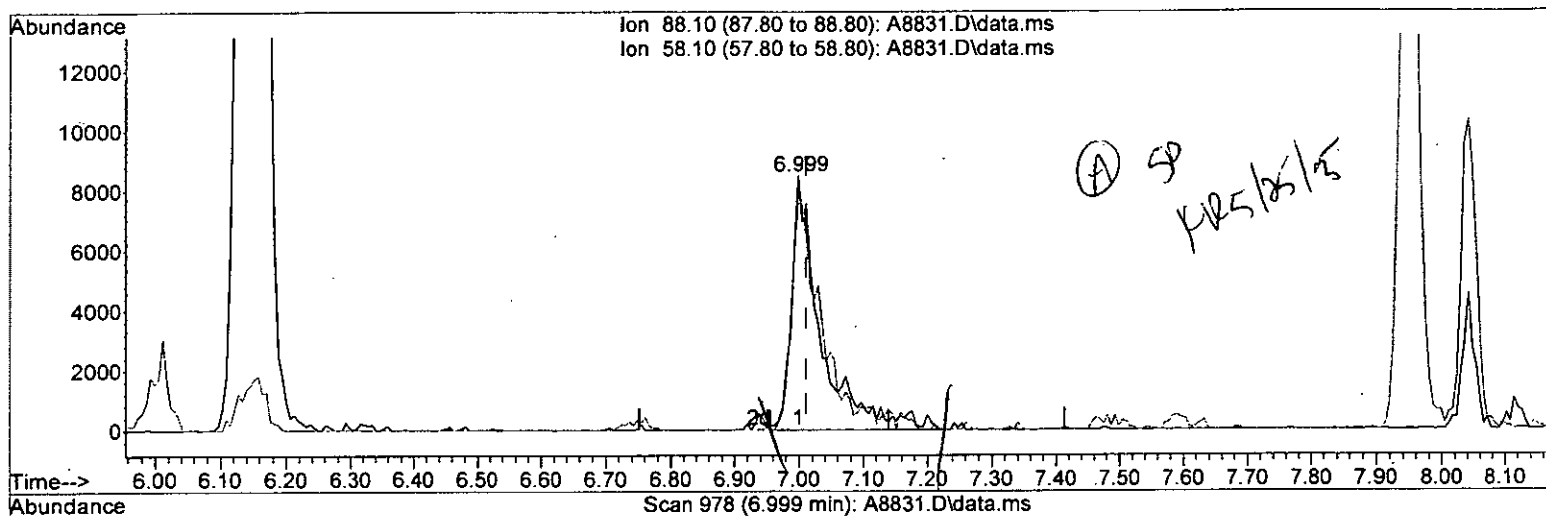
response 25011

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	89.39#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8831.D
Acq On : 24 May 2015 9:50 pm
Operator : F.Naegler
Sample : LCS
Misc :
ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8831.D\data.ms

(57) 1,4-Dioxane

6.999min (-0.012) 484.09 ug/L m

response 26471

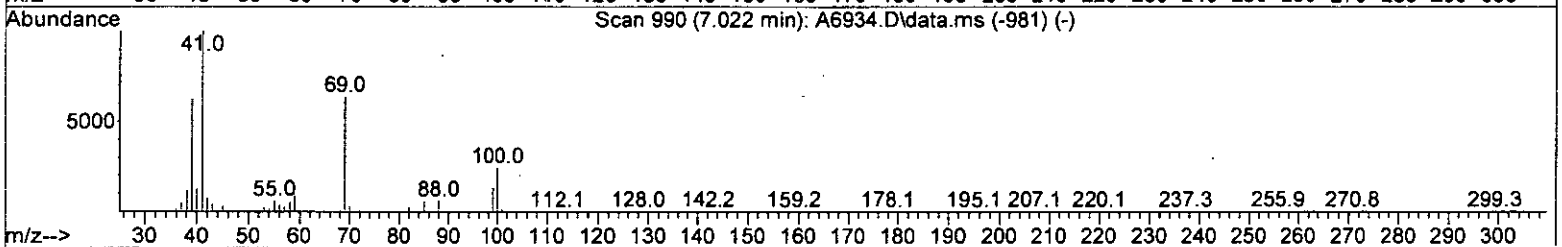
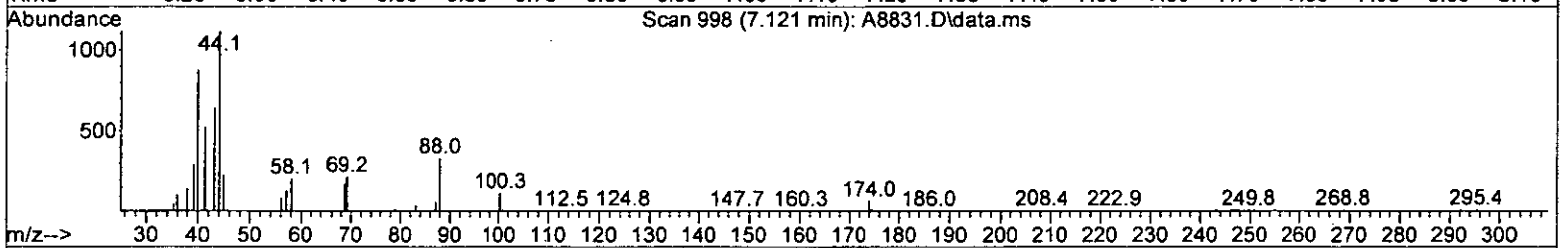
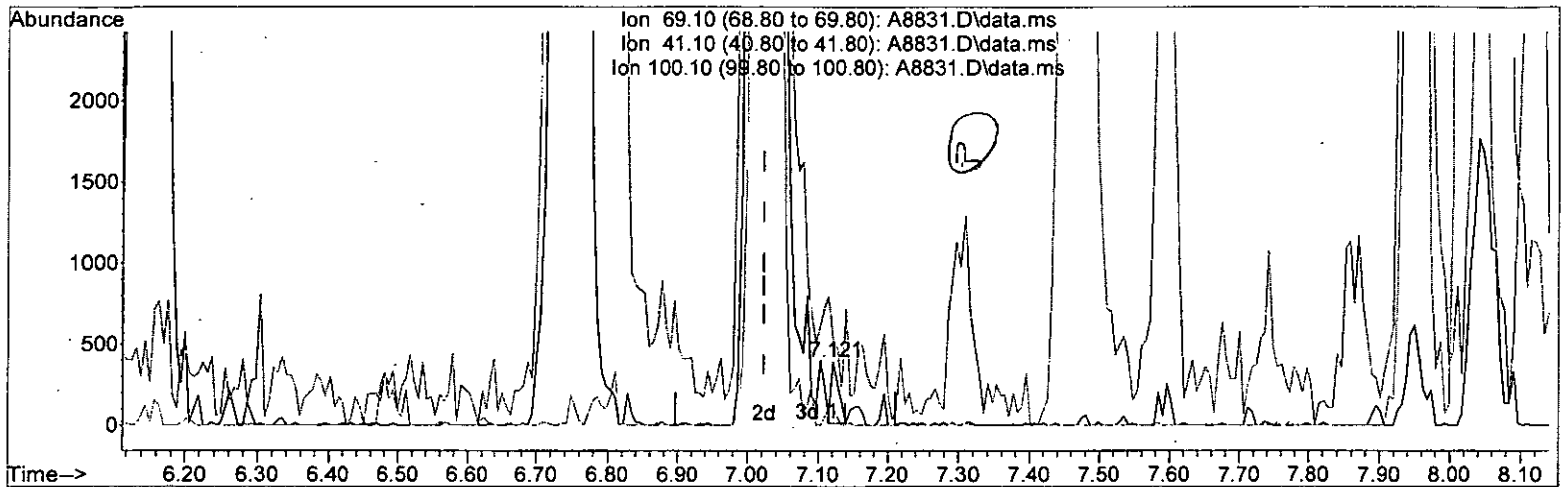
Ion	Exp%	Act%
88.10	100	100
58.10	61.10	89.39#
0.00	0.00	0.00
0.00	0.00	0.00

WMS/

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8831.D
 Acq On : 24 May 2015 9:50 pm
 Operator : F.Naegler
 Sample : LCS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8831.D\data.ms

(58) Methyl Methacrylate

7.121min (+0.098) 0.06 ug/L

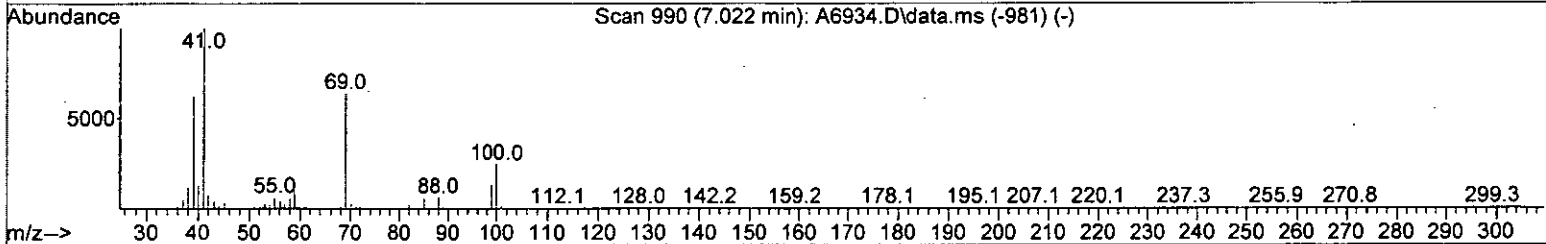
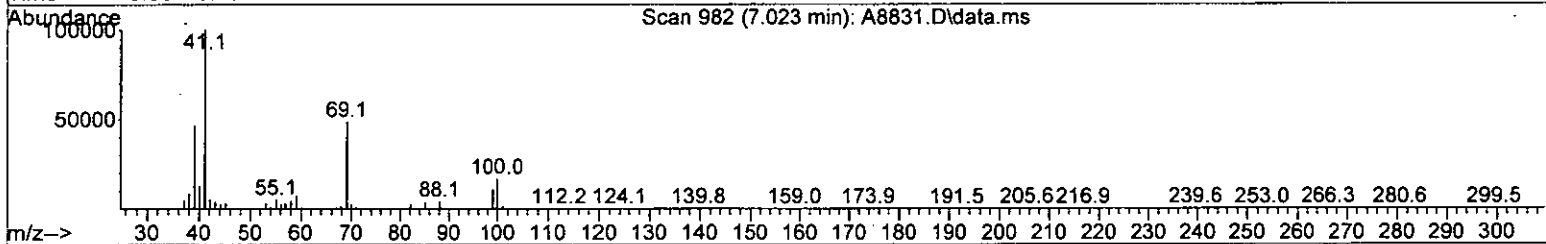
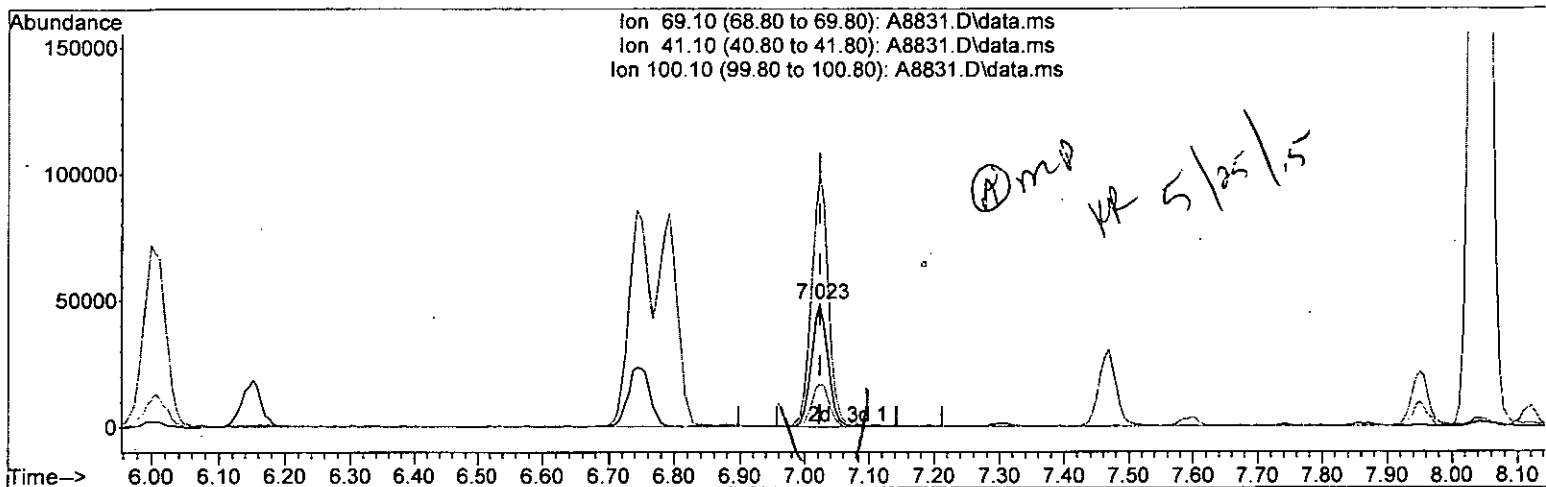
response 275

Ion	Exp%	Act%
69.10	100	100
41.10	141.70	133.25
100.10	37.10	30.43
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8831.D
 Acq On : 24 May 2015 9:50 pm
 Operator : F.Naegler
 Sample : LCS
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 24 22:05:12 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8831.D\data.ms

(58) Methyl Methacrylate

7.023min (+0.000) 20.35 ug/L m

response 87852

Ion	Exp%	Act%
69.10	100	100
41.10	141.70	206.63#
100.10	37.10	34.20
0.00	0.00	0.00

Handwritten: m/j

Inst : MSVOA10

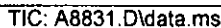
Quant Time: May 25 08:44:03 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 09:27

Sample Name: Lab Control Sample
Lab Code: RQ1505539-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052515\A8853.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	20.0		1.0	0.21	
75-01-4	Vinyl Chloride	20.5		1.0	0.32	
75-00-3	Chloroethane	20.7		1.0	0.24	
74-83-9	Bromomethane	15.7		1.0	0.29	
75-35-4	1,1-Dichloroethene	21.1		1.0	0.57	
67-64-1	Acetone	14.0		5.0	1.3	
75-15-0	Carbon Disulfide	19.7		1.0	0.22	
75-09-2	Methylene Chloride	20.0		1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	21.6		1.0	0.33	
75-34-3	1,1-Dichloroethane	21.0		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	21.1		1.0	0.30	
78-93-3	2-Butanone (MEK)	18.7		5.0	0.81	
67-66-3	Chloroform	21.1		1.0	0.25	
71-55-6	1,1,1-Trichloroethane	21.0		1.0	0.36	
56-23-5	Carbon Tetrachloride	21.3		1.0	0.45	
71-43-2	Benzene	20.6		1.0	0.20	
107-06-2	1,2-Dichloroethane	20.5		1.0	0.36	
79-01-6	Trichloroethene	20.8		1.0	0.22	
78-87-5	1,2-Dichloropropane	20.4		1.0	0.20	
75-27-4	Bromodichloromethane	21.2		1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	17.1		5.0	0.67	
108-88-3	Toluene	20.6		1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	19.5		1.0	0.20	
79-00-5	1,1,2-Trichloroethane	19.5		1.0	0.34	
127-18-4	Tetrachloroethene	21.1		1.0	0.30	
591-78-6	2-Hexanone	18.9		5.0	1.7	
124-48-1	Dibromochloromethane	21.2		1.0	0.31	
108-90-7	Chlorobenzene	21.6		1.0	0.29	
100-41-4	Ethylbenzene	19.8		1.0	0.20	
179601-23-1	m,p-Xylenes	44.5		2.0	0.33	
95-47-6	o-Xylene	21.3		1.0	0.20	
100-42-5	Styrene	22.0		1.0	0.20	
75-25-2	Bromoform	21.2		1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	22.1		1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: Lab Control Sample
Lab Code: RQ1505539-03

Service Request: R1503862
Date Collected: NA
Date Received: NA
Date Analyzed: 5/25/15 09:27

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052515\A8853.D\

Analysis Lot: 446166
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85-122	5/25/15 09:27	
Toluene-d8	98	87-121	5/25/15 09:27	
Dibromofluoromethane	99	89-119	5/25/15 09:27	

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS *101504538-03, 5539-03* Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 09:47:16 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	946415	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1442405	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1319036	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	750752	50.00	ug/L	0.00

System Monitoring Compounds

43) surr4,Dibromomethane	4.835	113	444053	49.33	ug/L	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	98.66%
46) surr1,1,2-dichloroetha...	5.414	65	449949	48.64	ug/L	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	97.28%
64) SURR3,Toluene-d8	8.042	98	1688381	49.20	ug/L	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	98.40%
69) SURR2,BFB	10.675	95	644814	46.24	ug/L	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	92.48%

*YR
5/25/15*

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.165	85	200735m	20.43	ug/L	
3) Chloromethane	1.281	50	360519	20.04	ug/L	98
4) Vinyl Chloride	1.354	62	268552	20.49	ug/L	96
5) Bromomethane	1.573	94	85156	15.71	ug/L	96
6) Chloroethane	1.634	64	133350	20.73	ug/L	93
7) Freon 21	1.768	67	383255	24.38	ug/L	99
8) Trichlorofluoromethane	1.811	101	275388	21.77	ug/L	97
9) Diethyl Ether	2.012	59	158631	20.82	ug/L #	75
10) Freon 123a	2.018	67	220763	23.00	ug/L	99
11) Freon 123	2.061	83	218456	20.57	ug/L	80
12) Acrolein	2.110	56	48552	33.93	ug/L	93
13) 1,1-Dicethene	2.195	96	146919	21.07	ug/L #	79
14) Freon 113	2.195	101	153775	21.08	ug/L	84
15) Acetone	2.226	43	47516	14.01	ug/L	96
16) 2-Propanol	2.329	45	199821	402.70	ug/L	98
17) Iodomethane	2.323	142	74776	7.24	ug/L	93
18) Carbon Disulfide	2.378	76	493056	19.69	ug/L	100
19) Acetonitrile	2.451	40	48874	112.03	ug/L	98
20) Allyl Chloride	2.488	76	98585	21.73	ug/L #	25
21) Methyl Acetate	2.506	43	134994	19.58	ug/L	86
22) Methylene Chloride	2.597	84	171408	20.04	ug/L #	63
23) TBA	2.695	59	237681	373.95	ug/L	70
24) Acrylonitrile	2.823	53	302657	98.92	ug/L	96
25) Methyl-t-Butyl Ether	2.866	73	375332	18.82	ug/L	85
26) trans-1,2-Dichloroethene	2.860	96	169650	21.62	ug/L #	81
27) 1,1-Dicethane	3.305	63	367207	20.96	ug/L	98
28) Vinyl Acetate	3.372	86	23831	16.87	ug/L #	90
30) 2-Chloro-1,3-Butadiene	3.414	53	398442	19.55	ug/L	84
32) 2,2-Dichloropropane	4.055	77	241183	21.30	ug/L	98
33) cis-1,2-Dichloroethene	4.055	96	198215	21.07	ug/L	88
34) 2-Butanone	4.085	43	83140	18.67	ug/L	75
35) Propionitrile	4.164	54	106999	96.84	ug/L	94
36) Bromochloromethane	4.408	130	119625m	20.68	ug/L	
37) Methacrylonitrile	4.414	67	45685	17.50	ug/L #	50

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 09:47:16 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.493	42	52478	19.07	ug/L	75
39) Chloroform	4.561	83	328569	21.08	ug/L	92
40) 1,1,1-Trichloroethane	4.859	97	278249	20.99	ug/L	93
42) Cyclohexane	4.951	41	270208	19.70	ug/L	94
44) Carbontetrachloride	5.152	121	76011	21.33	ug/L	86
45) 1,1-Dichloropropene	5.164	75	231678	19.87	ug/L	97
47) Benzene	5.499	78	745981	20.64	ug/L	82
48) 1,2-Dichloroethane	5.536	62	256282	20.54	ug/L	94
49) Iso-Butyl Alcohol	5.493	43	139202	371.28	ug/L	91
51) n-Heptane	6.005	43	332889	21.18	ug/L	81
53) Trichloroethene	6.499	130	207763	20.80	ug/L	96
54) Methylcyclohexane	6.743	55	285821	19.35	ug/L #	77
55) 1,2-Dicloropropane	6.792	63	217313	20.39	ug/L	98
56) Dibromomethane	6.938	93	94160	20.09	ug/L	96
57) 1,4-Dioxane	7.005	88	24574m	462.09	ug/L	
58) Methyl Methacrylate	7.023	69	83646	19.93	ug/L #	66
59) Bromodichloromethane	7.176	83	237462	21.15	ug/L	97
60) 2-Nitropropane	7.468	41	57036	46.38	ug/L	89
61) 2-Chloroethylvinyl Ether	7.596	63	84232	16.90	ug/L	98
62) cis-1,3-Dichloropropene	7.737	75	252566	19.84	ug/L	97
63) 4-Methyl-2-pentanone	7.950	43	155956	17.09	ug/L	91
65) Toluene	8.121	91	804240	20.60	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	206515	19.47	ug/L	98
67) Ethyl Methacrylate	8.541	69	163741	19.59	ug/L #	54
68) 1,1,2-Trichloroethane	8.590	97	135398	19.45	ug/L	94
71) Tetrachloroethene	8.730	164	166926	21.06	ug/L	92
72) 2-Hexanone	8.889	43	112354	18.88	ug/L	82
73) 1,3-Dichloropropene	8.767	76	235940	20.47	ug/L #	73
74) Dibromochloromethane	8.999	129	166412	21.16	ug/L	99
75) N-Butyl Acetate	9.054	43	272142	19.04	ug/L	92
76) 1,2-Dibromoethane	9.102	107	134101	20.88	ug/L	97
77) 3-Chlorobenzotrifluoride	9.627	180	304752	21.11	ug/L	97
78) Chlorobenzene	9.602	112	560965	21.63	ug/L	99
79) 4-Chlorobenzotrifluoride	9.681	180	270362	21.28	ug/L	99
80) 1,1,1,2-Tetrachloroethane	9.694	131	188574	21.24	ug/L	96
81) Ethylbenzene	9.724	106	269058	19.78	ug/L #	91
82) (m+p)Xylene	9.846	106	728401	44.51	ug/L	87
83) o-Xylene	10.206	106	346005	21.31	ug/L	98
84) Styrene	10.218	104	603648	21.95	ug/L	99
85) Bromoform	10.376	173	90838	21.21	ug/L	99
86) 2-Chlorobenzotrifluoride	10.456	180	285107	20.86	ug/L	94
87) Isopropylbenzene	10.547	105	908727	22.78	ug/L	100
88) Cyclohexanone	10.608	55	298403	702.30	ug/L	92
89) trans-1,4-Dichloro-2-B...	10.864	53	49398	17.17	ug/L #	76
91) 1,1,2,2-Tetrachloroethane	10.809	83	169603	22.12	ug/L	94
92) Bromobenzene	10.797	156	233629	21.48	ug/L	95
93) 1,2,3-Trichloropropene	10.840	110	45172	20.01	ug/L #	87
94) n-Propylbenzene	10.907	91	1082331	24.26	ug/L	98
95) 2-Chlorotoluene	10.974	91	643034	22.99	ug/L	96
96) 3-Chlorotoluene	11.023	91	646286	21.88	ug/L	100
97) 4-Chlorotoluene	11.065	91	770649	23.12	ug/L	96

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 25 09:47:16 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

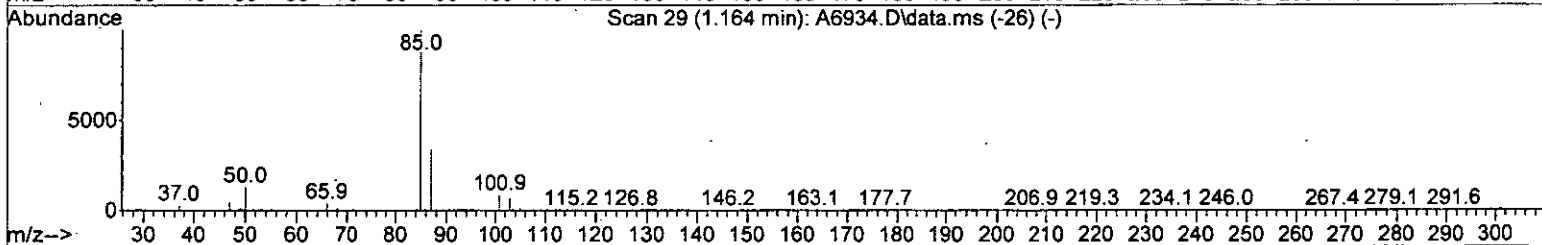
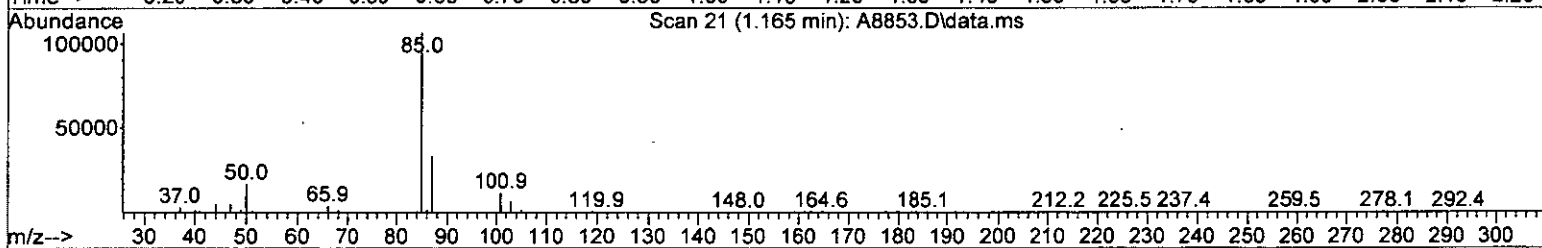
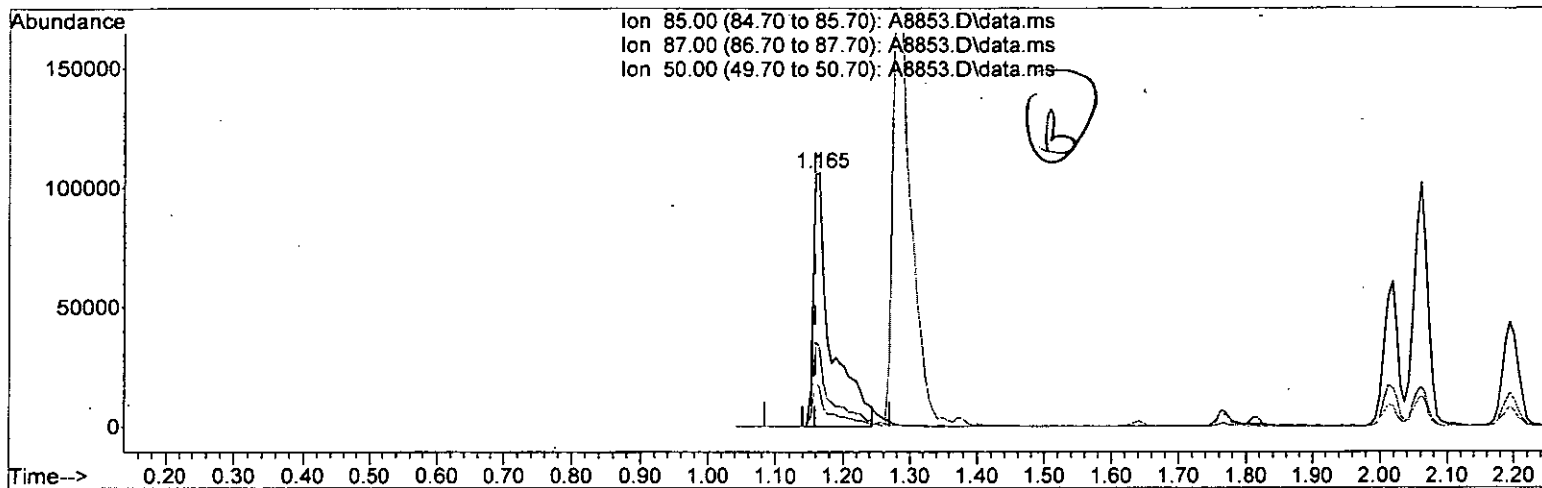
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
98) 1,3,5-Trimethylbenzene	11.065	105	775585	23.28	ug/L	95
99) tert-Butylbenzene	11.340	119	651964	22.54	ug/L	96
100) 1,2,4-Trimethylbenzene	11.376	105	793030	23.31	ug/L	96
101) 3,4-Dichlorobenzotrifl...	11.443	214	213757	21.60	ug/L	96
102) sec-Butylbenzene	11.523	105	920838	23.45	ug/L	97
103) p-Isopropyltoluene	11.644	119	815422	23.31	ug/L	97
104) 1,3-Dclbenz	11.602	146	482292	21.79	ug/L	97
105) 1,4-Dclbenz	11.681	146	506153	21.81	ug/L	98
106) 2,4-Dichlorobenzotrifl...	11.736	214	197436	21.27	ug/L	98
107) 2,5-Dichlorobenzotrifl...	11.773	214	222587	21.15	ug/L	99
108) n-Butylbenzene	11.980	91	716710	23.20	ug/L	98
109) 1,2-Dclbenz	11.986	146	444947	21.75	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.614	157	28895	20.60	ug/L	88
111) Trielution Dichlorotol...	12.730	125	1192449	67.99	ug/L	97
112) 1,3,5-Trichlorobenzene	12.785	180	326006	21.76	ug/L	95
113) Coelution Dichlorotoluene	13.059	125	852843	45.52	ug/L	94
114) 1,2,4-Tcbenzene	13.266	180	295603	22.93	ug/L	96
115) Hexachlorobt	13.406	225	120443	22.57	ug/L	97
116) Naphthalen	13.461	128	547378	22.66	ug/L	99
117) 1,2,3-Tclbenzene	13.650	180	241958	22.80	ug/L	99
118) 2,4,5-Trichlorotoluene	14.235	159	178023	22.74	ug/L	99
119) 2,3,6-Trichlorotoluene	14.321	159	170053	24.86	ug/L	96

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

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8853.D
Acq On : 25 May 2015 9:27 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:42:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8853.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.006) 19.76 ug/L

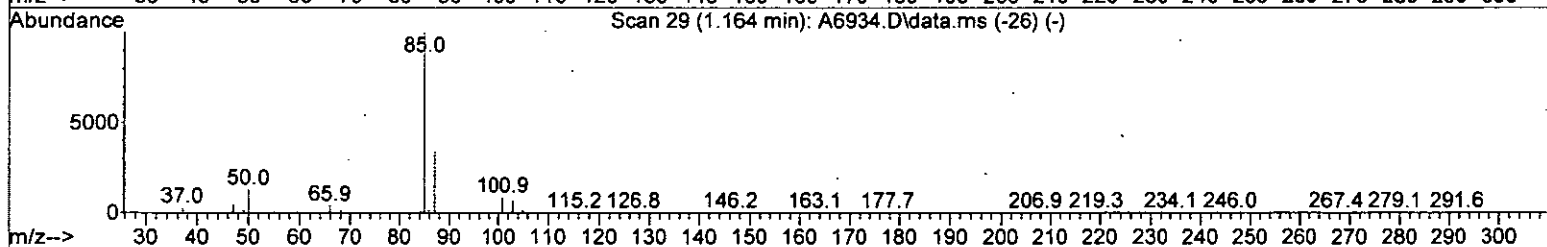
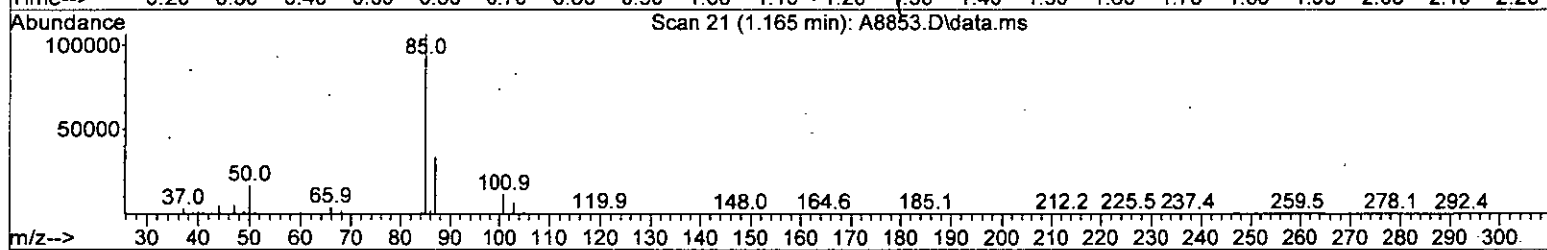
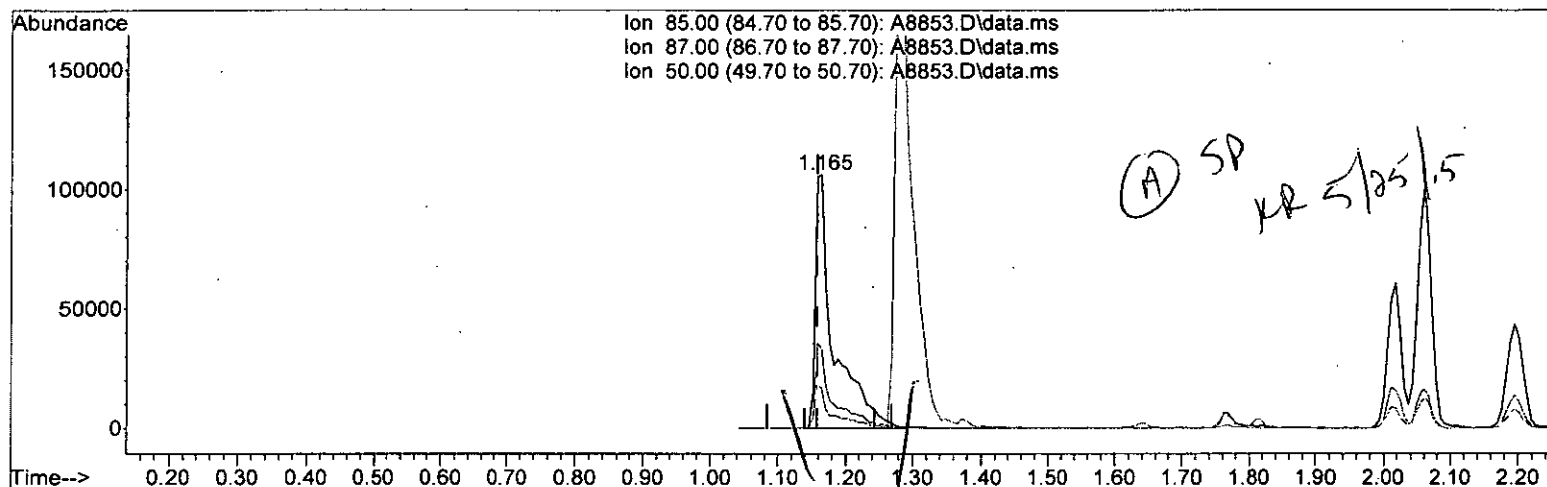
response 194220

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.45
50.00	15.00	15.70
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8853.D
Acq On : 25 May 2015 9:27 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:42:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8853.D\data.ms

(2) Dichlorodifluoromethane (P)

1.165min (+0.006) 20.43 ug/L m

response 200735

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	31.45
50.00	15.00	15.70
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS

Misc :

ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

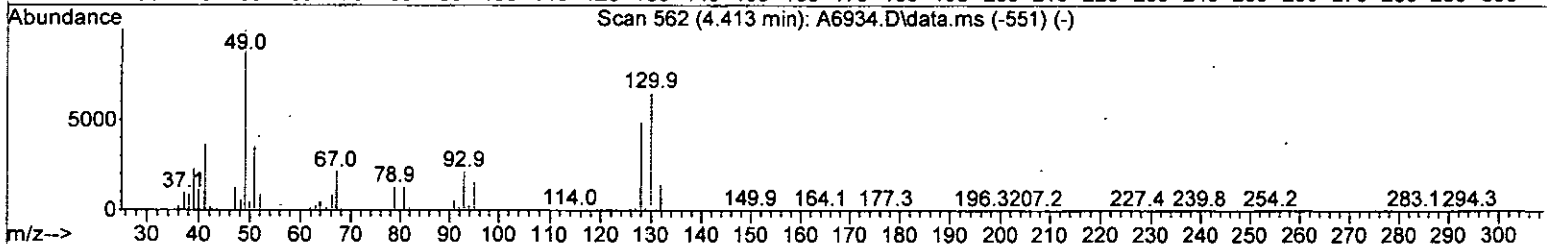
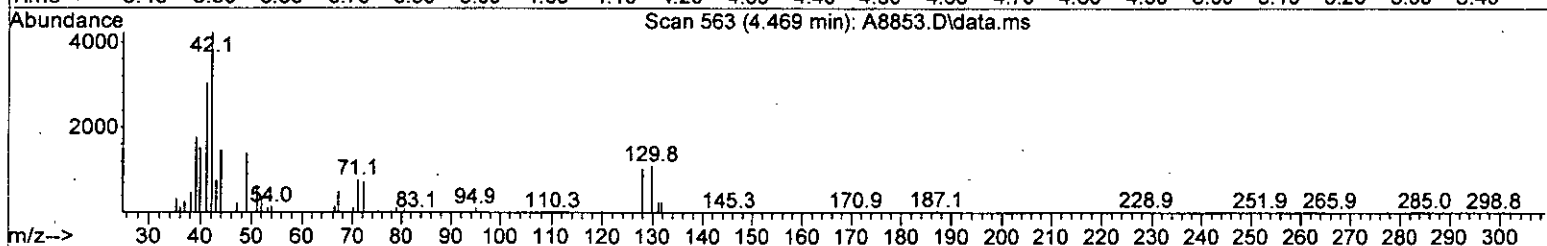
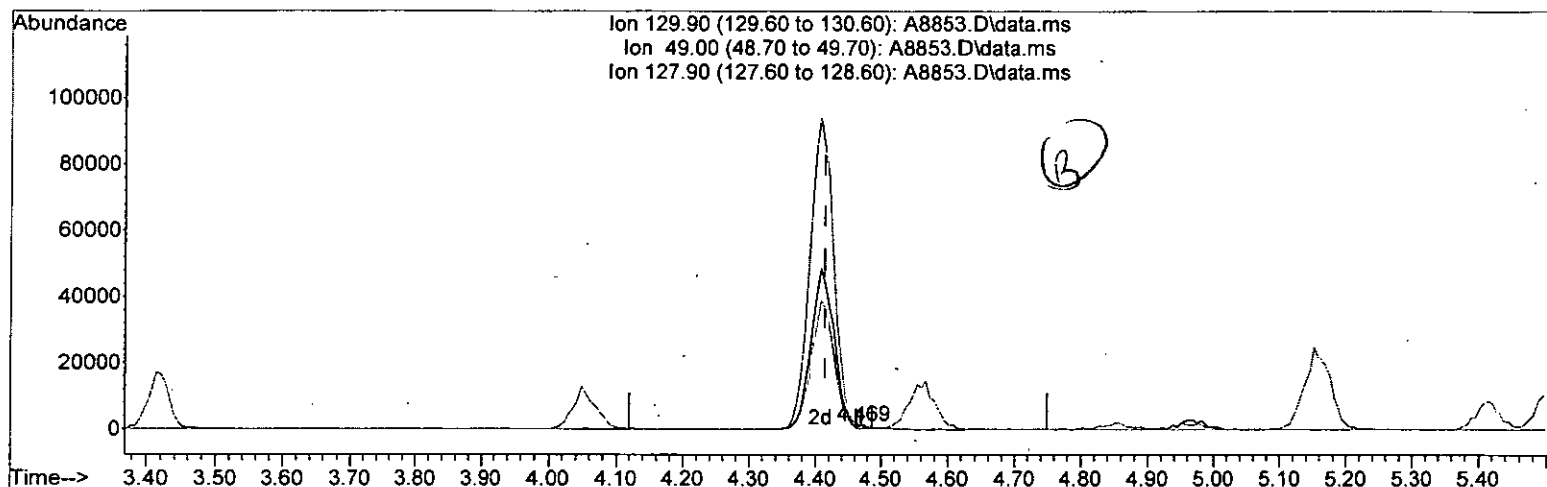
Quant Time: May 25 09:42:43 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



TIC: A8853.D\data.ms

(36) Bromochloromethane

4.469min (+0.055) 0.12 ug/L

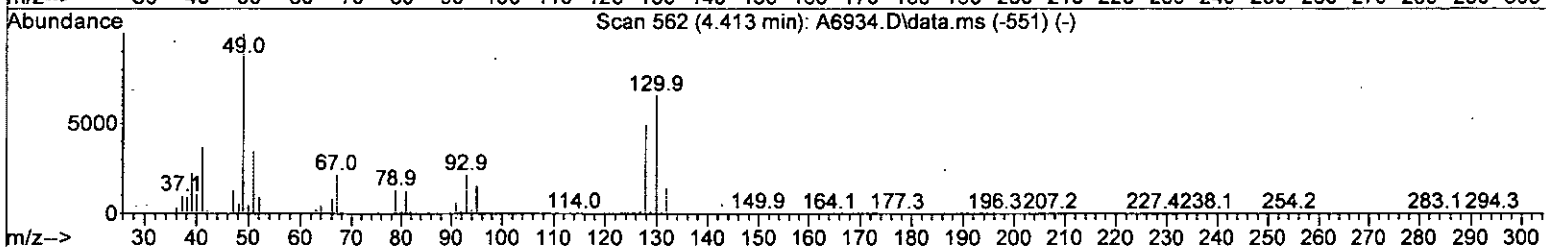
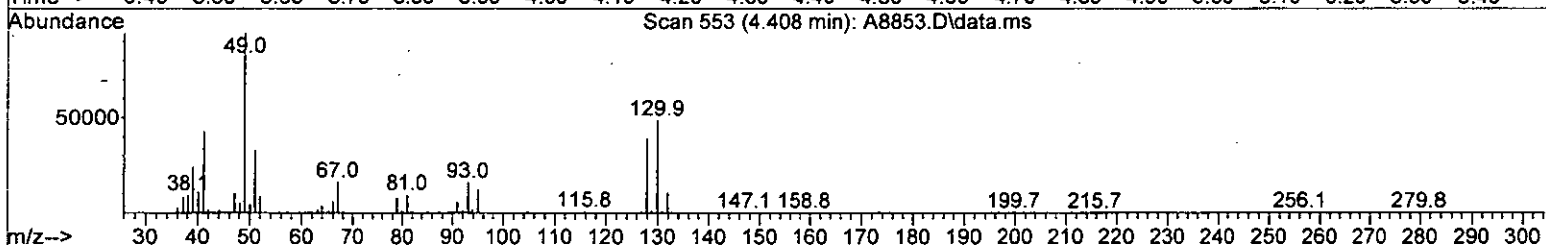
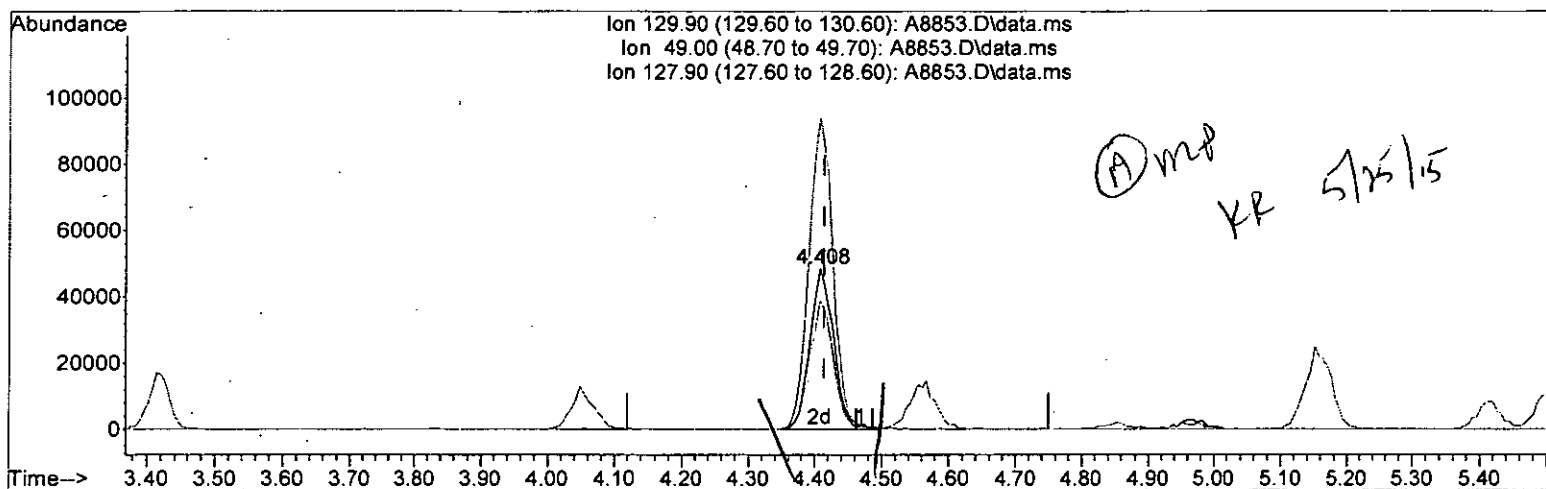
response 717

Ion	Exp%	Act%
129.90	100	100
49.00	133.80	126.16
127.90	75.20	93.55
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8853.D
Acq On : 25 May 2015 9:27 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:42:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8853.D\data.ms

(36) Bromochloromethane

4.408min (-0.006) 20.68 ug/L m

response 119625

Ion	Exp%	Act%
129.90	100	100
49.00	133.80	194.25#
127.90	75.20	80.33
0.00	0.00	0.00

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Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA10

Misc :

ALS Vial : 3 Sample Multiplier: 1

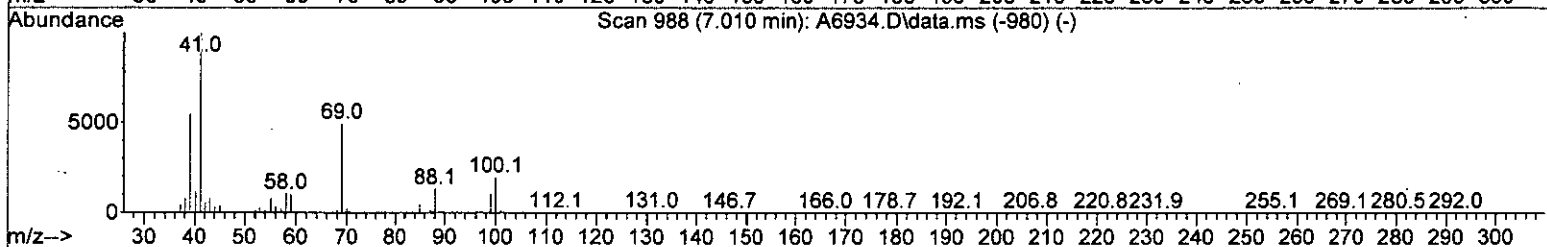
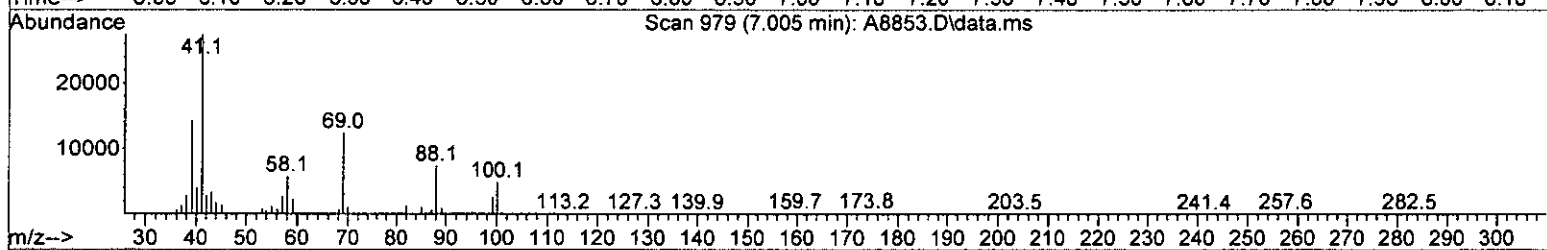
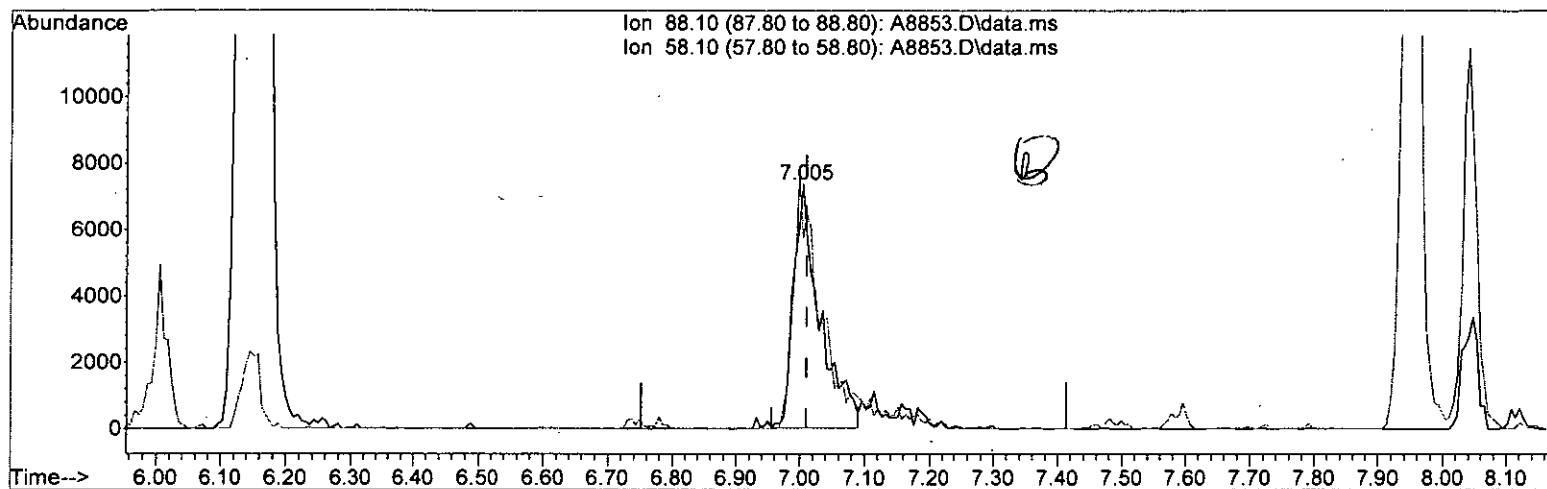
Quant Time: May 25 09:42:43 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



TIC: A8853.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 393.18 ug/L

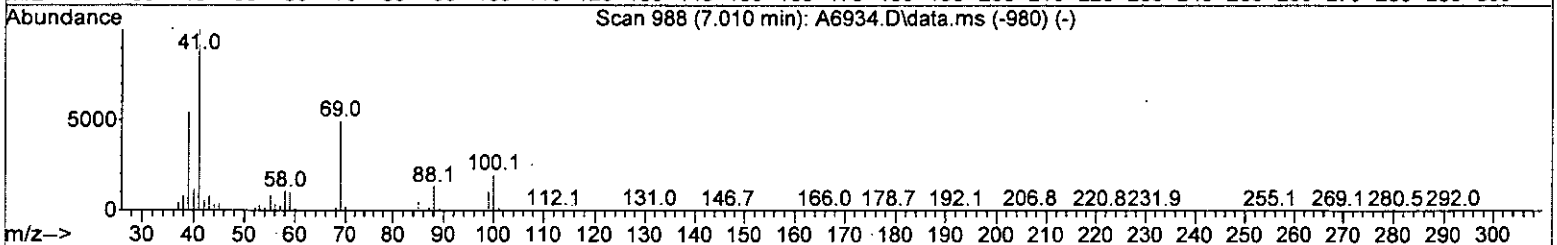
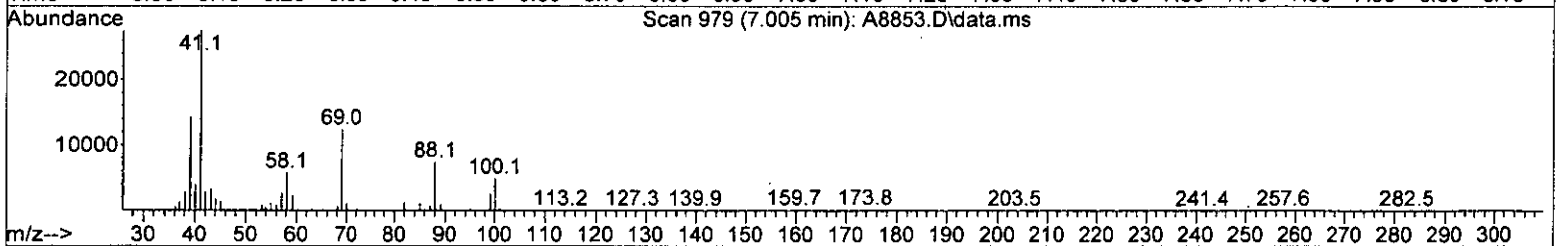
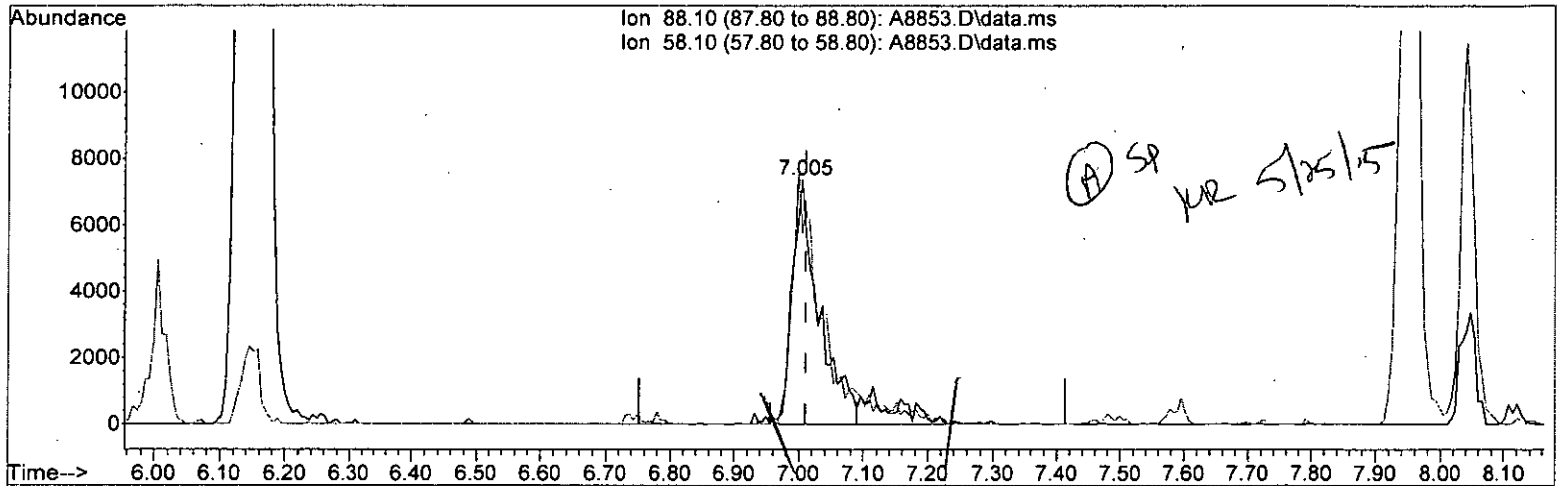
response 20909

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	77.82
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052515\
Data File : A8853.D
Acq On : 25 May 2015 9:27 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 09:42:43 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8853.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 462.09 ug/L m

response 24574

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	77.82
0.00	0.00	0.00
0.00	0.00	0.00

hw/jn

Data Path : I:\ACQUDATA\msvoa10\data\052515\

Data File : A8853.D

Acq On : 25 May 2015 9:27 am

Operator : K.Ruest

Sample : LCS

Misc :

Inst : MSVOA10

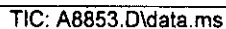
Quant Time: May 25 09:47:16 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration



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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 05:43

Sample Name: BAT-EW-6-150518
Lab Code: RQ1505558-05
Run Type: Matrix Spike

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8847.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	45.8	1.0	0.21	
75-01-4	Vinyl Chloride	47.0	1.0	0.32	
75-00-3	Chloroethane	47.0	1.0	0.24	
74-83-9	Bromomethane	28.9	1.0	0.29	
75-35-4	1,1-Dichloroethene	46.7	1.0	0.57	
67-64-1	Acetone	50.1	5.0	1.3	
75-15-0	Carbon Disulfide	43.9	1.0	0.22	
75-09-2	Methylene Chloride	45.1	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	48.2	1.0	0.33	
75-34-3	1,1-Dichloroethane	47.8	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	74.6	1.0	0.30	
78-93-3	2-Butanone (MEK)	43.7	5.0	0.81	
67-66-3	Chloroform	47.3	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	47.7	1.0	0.36	
56-23-5	Carbon Tetrachloride	50.6	1.0	0.45	
71-43-2	Benzene	47.8	1.0	0.20	
107-06-2	1,2-Dichloroethane	47.3	1.0	0.36	
79-01-6	Trichloroethene	47.7	1.0	0.22	
78-87-5	1,2-Dichloropropane	47.2	1.0	0.20	
75-27-4	Bromodichloromethane	49.4	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	42.5	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	46.1	5.0	0.67	
108-88-3	Toluene	47.2	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	42.1	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	45.2	1.0	0.34	
127-18-4	Tetrachloroethene	46.1	1.0	0.30	
591-78-6	2-Hexanone	48.9	5.0	1.7	
124-48-1	Dibromochloromethane	50.2	1.0	0.31	
108-90-7	Chlorobenzene	49.0	1.0	0.29	
100-41-4	Ethylbenzene	45.0	1.0	0.20	
179601-23-I	m,p-Xylenes	99.6	2.0	0.33	
95-47-6	o-Xylene	48.6	1.0	0.20	
100-42-5	Styrene	44.3	1.0	0.20	
75-25-2	Bromoform	51.7	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	50.5	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-6-150518
Lab Code: RQ1505558-05
Run Type: Matrix Spike

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 05:43

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8847.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85-122	5/25/15 05:43	
Toluene-d8	99	87-121	5/25/15 05:43	
Dibromofluoromethane	99	89-119	5/25/15 05:43	

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8847.D
 Acq On : 25 May 2015 5:43 am
 Operator : F.Naegler
 Sample : R1503862-007MS|1.0 *RQ1505558-05* Inst : MSVOA10
 Misc : CBI 13429 T4
 ALS Vial : 43 Sample Multiplier: 1

Quant Time: May 26 12:19:03 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.969	168	976436	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1455576	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1347661	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.663	152	787506	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4, Dibromomethane	4.829	113	449229	49.45	ug/L	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	98.90%		
46) surr1, 1,2-dichloroetha...	5.414	65	469328	50.28	ug/L	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	100.56%		
64) SURR3, Toluene-d8	8.042	98	1706188	49.27	ug/L	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	98.54%		
69) SURR2, BFB	10.675	95	672530	47.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	95.58%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.159	85	422837m	41.70	ug/L	
3) Chloromethane	1.281	50	850248	45.81	ug/L	98
4) Vinyl Chloride	1.348	62	635705	47.02	ug/L	98
5) Bromomethane	1.567	94	161692	28.91	ug/L	98
6) Chloroethane	1.634	64	311827	46.97	ug/L	94
7) Freon 21	1.762	67	934270	57.60	ug/L	97
8) Trichlorofluoromethane	1.811	101	621254	47.60	ug/L	100
9) Diethyl Ether	2.012	59	388584	49.43	ug/L #	74
10) Freon 123a	2.012	67	546938	55.23	ug/L	92
11) Freon 123	2.061	83	548356	50.05	ug/L	80
12) Acrolein	2.110	56	91583	62.03	ug/L	97
13) 1,1-Dichloroethene	2.195	96	336005	46.71	ug/L #	84
14) Freon 113	2.195	101	323589	43.00	ug/L	92
15) Acetone	2.226	43	143709	50.12	ug/L	99
16) 2-Propanol	2.329	45	490057	957.26	ug/L	91
17) Iodomethane	2.317	142	240584	22.58	ug/L	92
18) Carbon Disulfide	2.378	76	1133337	43.86	ug/L	99
19) Acetonitrile	2.451	40	116712	259.30	ug/L	91
20) Allyl Chloride	2.488	76	215817	46.11	ug/L #	16
21) Methyl Acetate	2.506	43	235232	33.08	ug/L	84
22) Methylene Chloride	2.598	84	398384	45.14	ug/L #	60
23) TBA	2.695	59	609116	928.87	ug/L	63
24) Acrylonitrile	2.823	53	733005	232.20	ug/L	100
25) Methyl-t-Butyl Ether	2.866	73	888870	43.21	ug/L	89
26) trans-1,2-Dichloroethene	2.860	96	390022	48.17	ug/L #	79
27) 1,1-Dichloroethane	3.305	63	864799	47.84	ug/L	98
28) Vinyl Acetate	3.378	86	35848	24.59	ug/L	99
30) 2-Chloro-1,3-Butadiene	3.414	53	932675	44.36	ug/L	84
32) 2,2-Dichloropropane	4.055	77	276178	23.64	ug/L	91
33) cis-1,2-Dichloroethene	4.055	96	723847	74.59	ug/L	94
34) 2-Butanone	4.091	43	200749	43.70	ug/L	84
35) Propionitrile	4.164	54	265446	232.85	ug/L	97
36) Bromochloromethane	4.414	130	279522	46.84	ug/L #	70
37) Methacrylonitrile	4.402	67	114203	42.40	ug/L #	26

K8
5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8847.D

Acq On : 25 May 2015 5:43 am

Operator : F.Naegler

Sample : R1503862-007MS|1.0

Inst : MSVOA10

Misc : CBI 13429 T4

ALS Vial : 43 Sample Multiplier: 1

Quant Time: May 26 12:19:03 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.494	42	128616	45.30	ug/L	74
39) Chloroform	4.561	83	760387	47.29	ug/L	95
40) 1,1,1-Trichloroethane	4.853	97	652114	47.67	ug/L	94
42) Cyclohexane	4.951	41	642061	46.39	ug/L	88
44) Carbontetrachloride	5.146	121	181916	50.58	ug/L #	75
45) 1,1-Dichloropropene	5.164	75	548707	46.63	ug/L	97
47) Benzene	5.499	78	1742040	47.75	ug/L	83
48) 1,2-Dichloroethane	5.536	62	596079	47.33	ug/L	88
49) Iso-Butyl Alcohol	5.493	43	335657	887.16	ug/L	97
51) n-Heptane	6.005	43	480096	30.27	ug/L	81
53) Trichloroethene	6.493	130	481076	47.73	ug/L	97
54) Methylcyclohexane	6.749	55	634283	42.55	ug/L #	83
55) 1,2-Dichloropropane	6.792	63	507212	47.16	ug/L	97
56) Dibromomethane	6.938	93	225911	47.75	ug/L	96
57) 1,4-Dioxane	7.005	88	57434m	1070.23	ug/L	
58) Methyl Methacrylate	7.024	69	193943	45.78	ug/L #	55
59) Bromodichloromethane	7.170	83	559738	49.39	ug/L	99
60) 2-Nitropropane	7.469	41	143095	115.30	ug/L	99
62) cis-1,3-Dichloropropene	7.737	75	545605	42.48	ug/L	95
63) 4-Methyl-2-pentanone	7.950	43	424183	46.05	ug/L	88
65) Toluene	8.121	91	1859006	47.19	ug/L	96
66) trans-1,3-Dichloropropene	8.395	75	450242	42.06	ug/L	96
67) Ethyl Methacrylate	8.541	69	408549	48.43	ug/L #	47
68) 1,1,2-Trichloroethane	8.590	97	317449	45.20	ug/L	95
71) Tetrachloroethene	8.730	164	373417	46.10	ug/L	95
72) 2-Hexanone	8.895	43	297515	48.94	ug/L	91
73) 1,3-Dichloropropane	8.767	76	559282	47.50	ug/L #	76
74) Dibromochloromethane	8.999	129	403718	50.24	ug/L	100
75) N-Butyl Acetate	9.054	43	486415	33.31	ug/L	92
76) 1,2-Dibromoethane	9.096	107	320082	48.77	ug/L	94
78) Chlorobenzene	9.602	112	1297392	48.96	ug/L	100
80) 1,1,1,2-Tetrachloroethane	9.694	131	436735	48.14	ug/L	98
81) Ethylbenzene	9.730	106	625186	44.98	ug/L	95
82) (m+p)Xylene	9.840	106	1665560	99.61	ug/L #	86
83) o-Xylene	10.206	106	806558	48.62	ug/L	97
84) Styrene	10.224	104	1245687	44.34	ug/L	95
85) Bromoform	10.377	173	226273	51.71	ug/L	96
87) Isopropylbenzene	10.547	105	2088730	51.25	ug/L	100
88) Cyclohexanone	10.608	55	234409	539.97	ug/L	90
89) trans-1,4-Dichloro-2-B...	10.864	53	107111	36.43	ug/L	81
91) 1,1,2,2-Tetrachloroethane	10.815	83	405924	50.47	ug/L	96
92) Bromobenzene	10.797	156	543611	47.65	ug/L	97
93) 1,2,3-Trichloropropane	10.840	110	114398	48.32	ug/L #	90
94) n-Propylbenzene	10.907	91	2432648	51.99	ug/L	100
95) 2-Chlorotoluene	10.974	91	1475307	50.29	ug/L	97
97) 4-Chlorotoluene	11.065	91	1781189	50.93	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	1704080	48.77	ug/L	98
99) tert-Butylbenzene	11.340	119	1515995	49.97	ug/L	96
100) 1,2,4-Trimethylbenzene	11.376	105	1705202	47.78	ug/L	97
102) sec-Butylbenzene	11.523	105	2070540	50.27	ug/L	97
103) p-Isopropyltoluene	11.645	119	1844232	50.26	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 12:19:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration

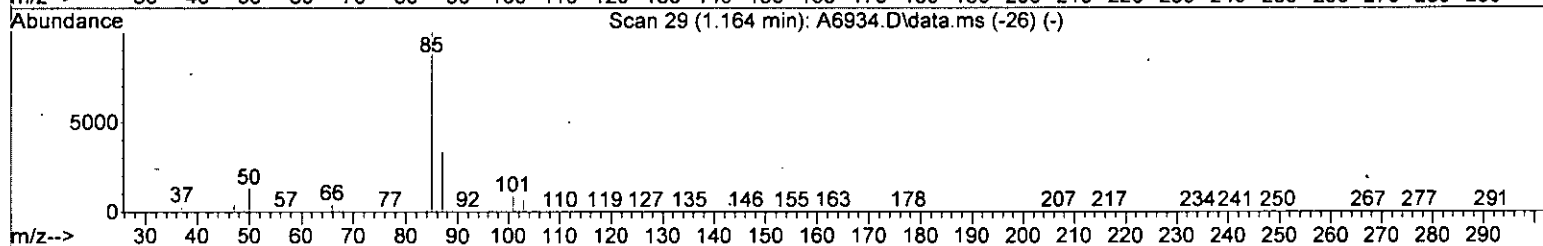
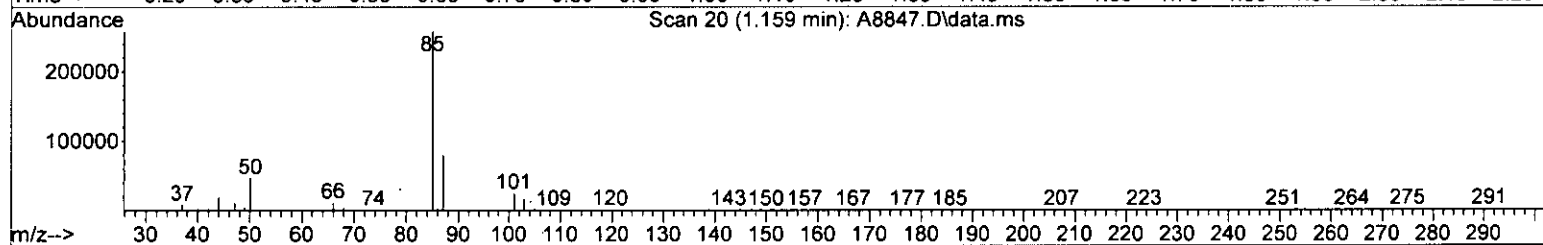
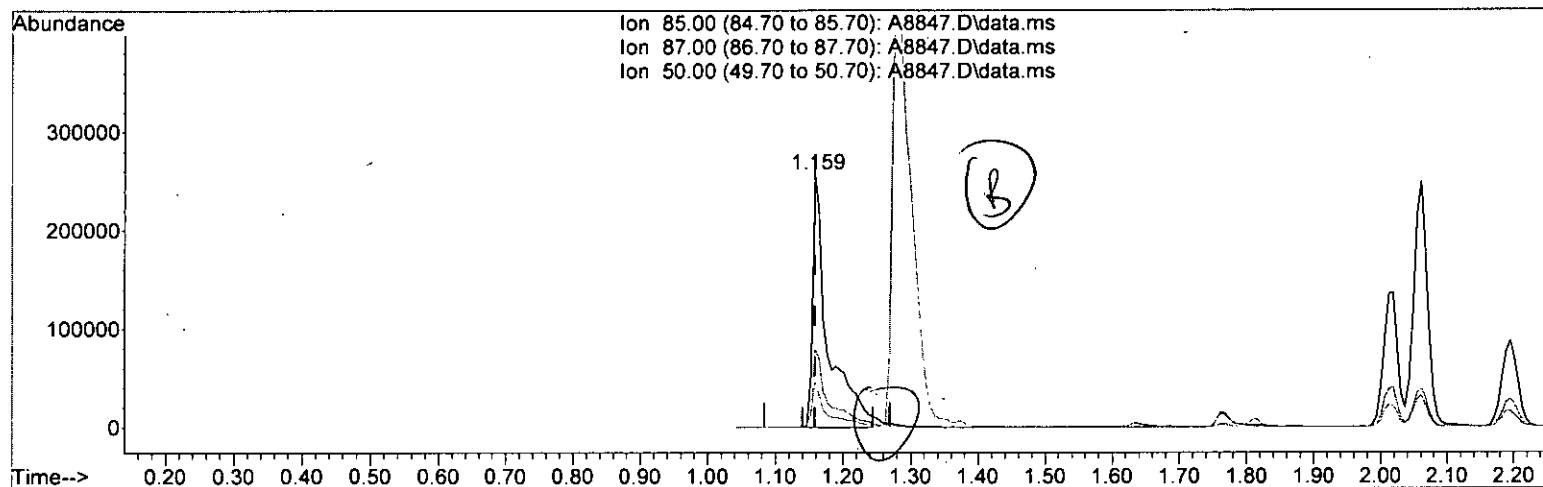
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.602	146	1096883	47.25	ug/L	100
105) 1,4-Dclbenz	11.681	146	1160214	47.67	ug/L	96
108) n-Butylbenzene	11.980	91	1564205	48.27	ug/L	97
109) 1,2-Dclbenz	11.986	146	1032616	48.12	ug/L	98
110) 1,2-Dibromo-3-chloropr...	12.614	157	68529	46.57	ug/L	93
114) 1,2,4-Tcbenzene	13.266	180	614568	45.45	ug/L	99
115) Hexachlorobt	13.406	225	237310	42.39	ug/L	98
116) Naphthalen	13.461	128	1241343	48.99	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	524609	47.12	ug/L	98

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

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 05:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8847.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 40.61 ug/L

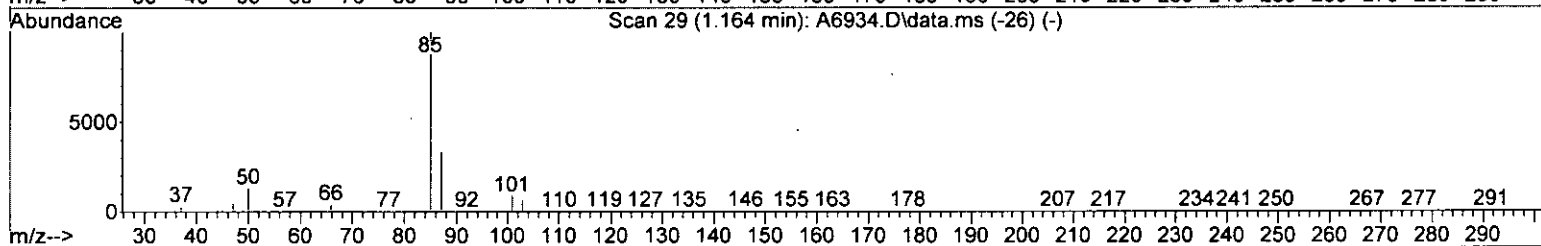
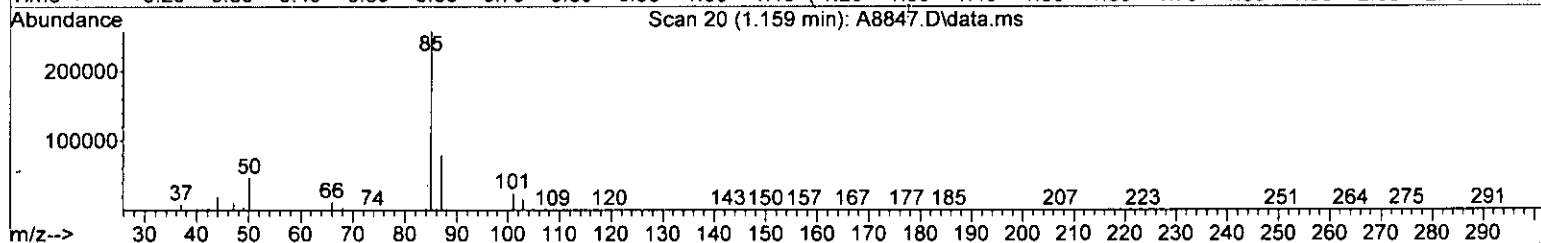
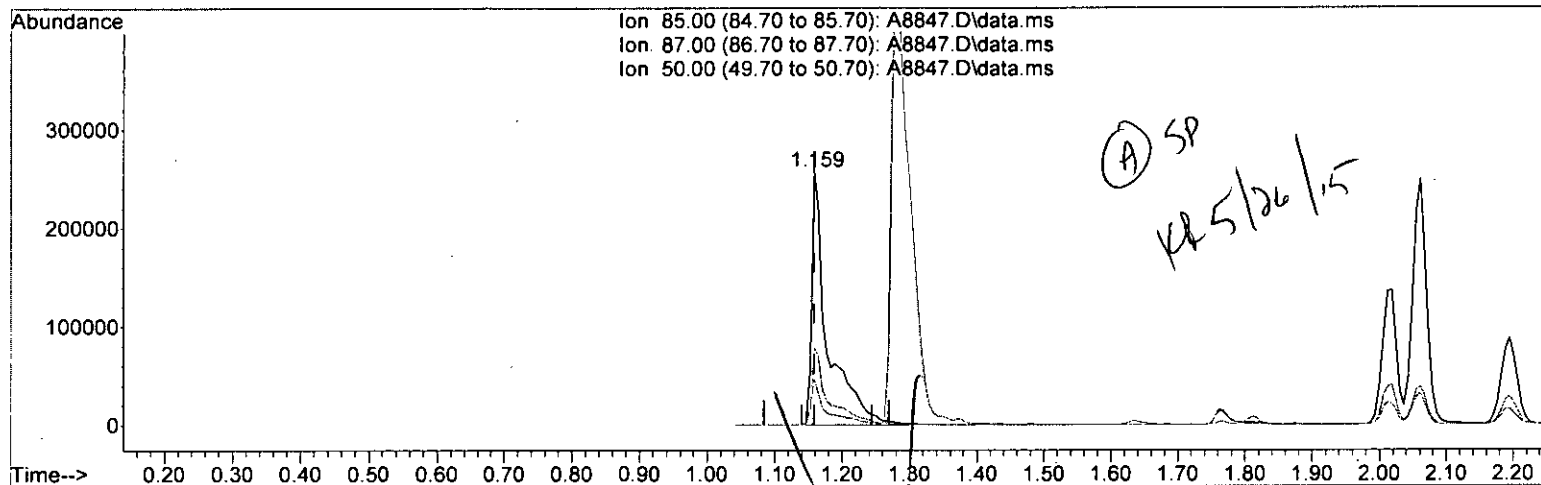
response 411710

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.58
50.00	15.00	17.85
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 05:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8847.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 41.70 ug/L m

response 422837

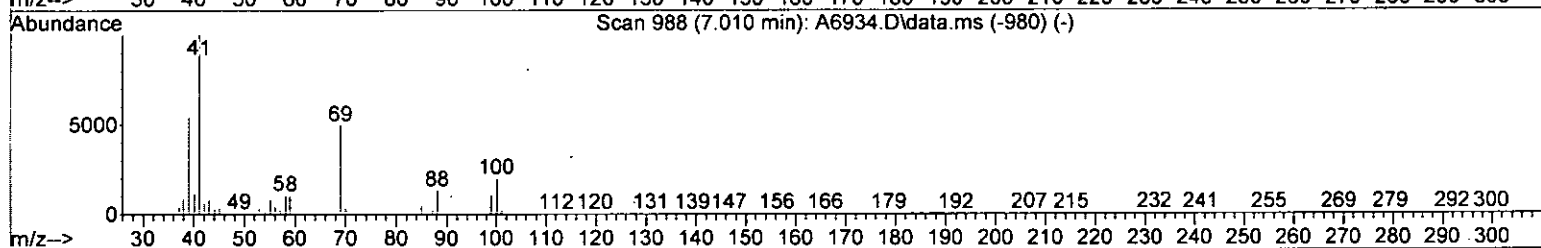
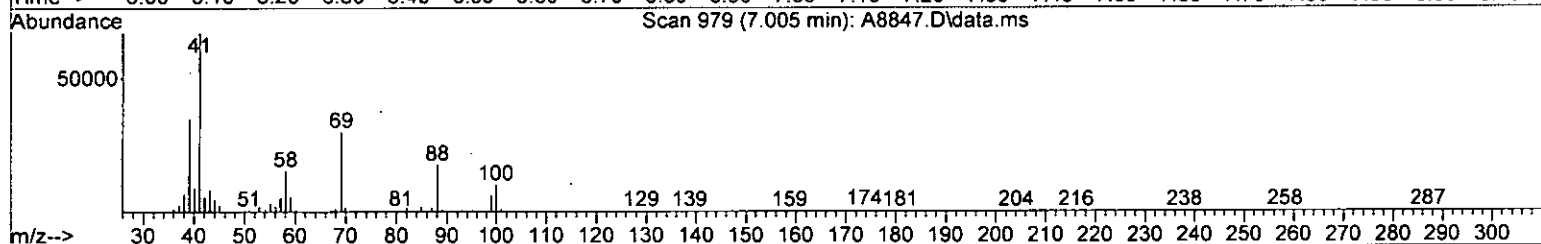
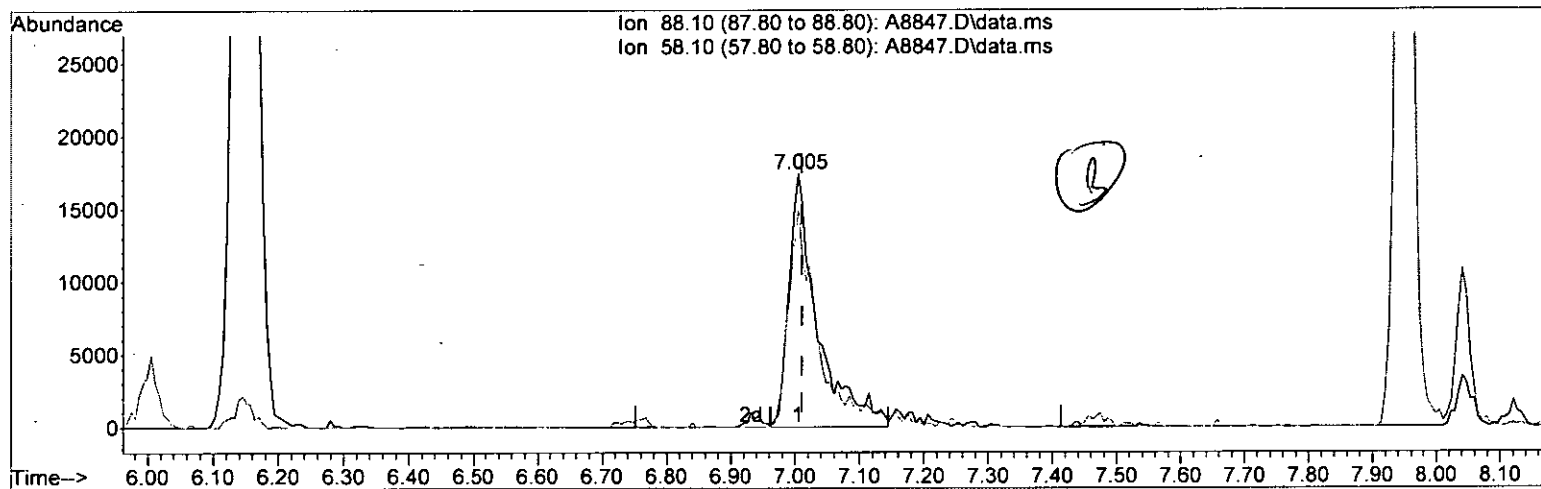
Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.58
50.00	15.00	17.85
0.00	0.00	0.00

mw/1

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 05:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8847.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 1000.41 ug/L

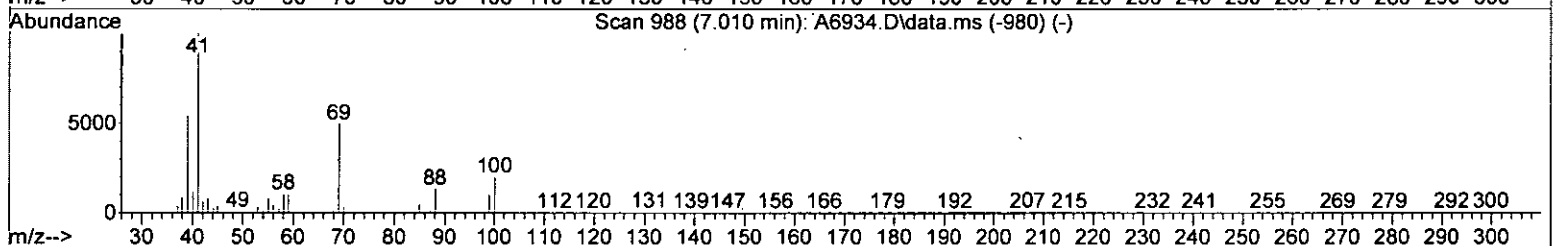
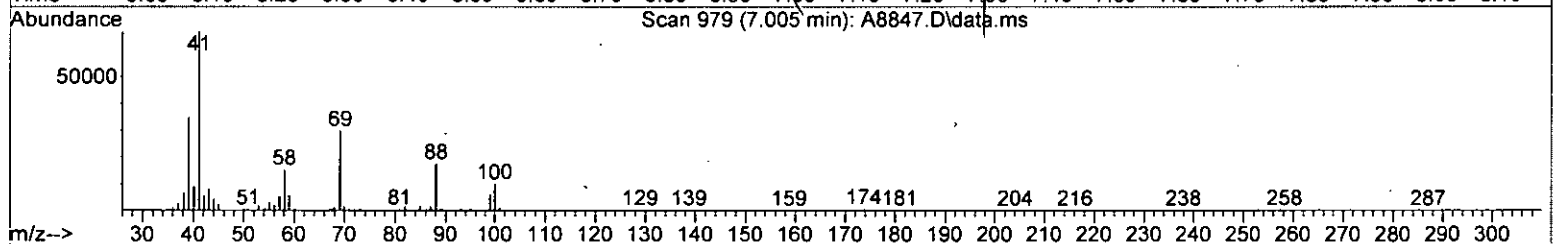
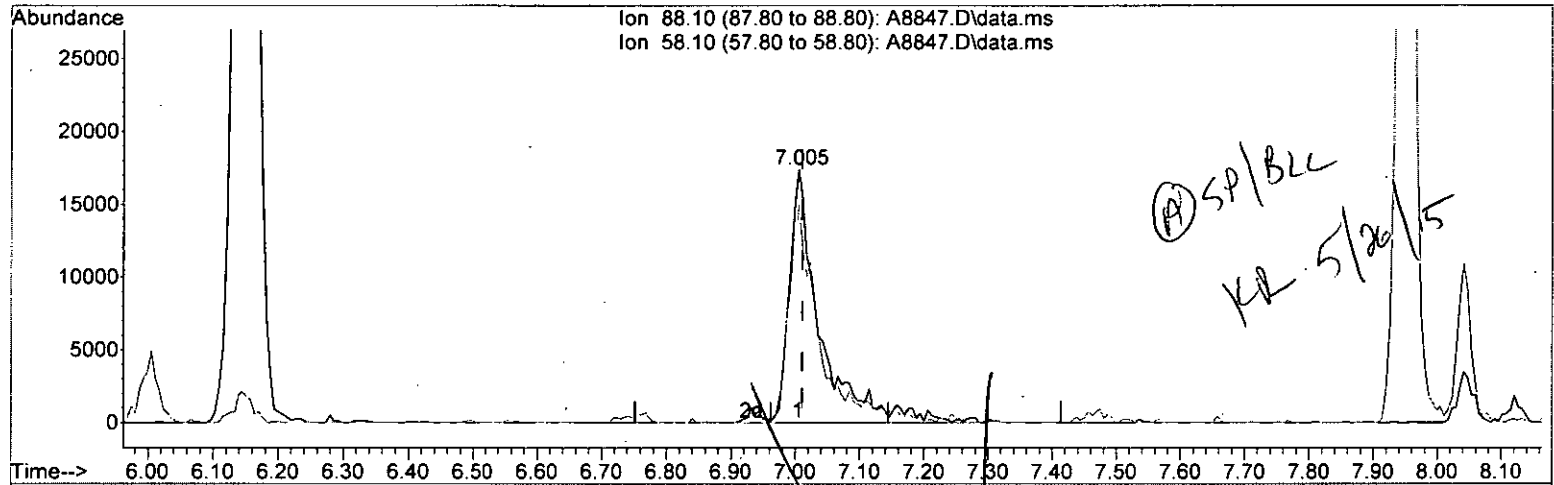
response 53687

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	86.31#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 05:58:51 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8847.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 1070.23 ug/L m

response 57434

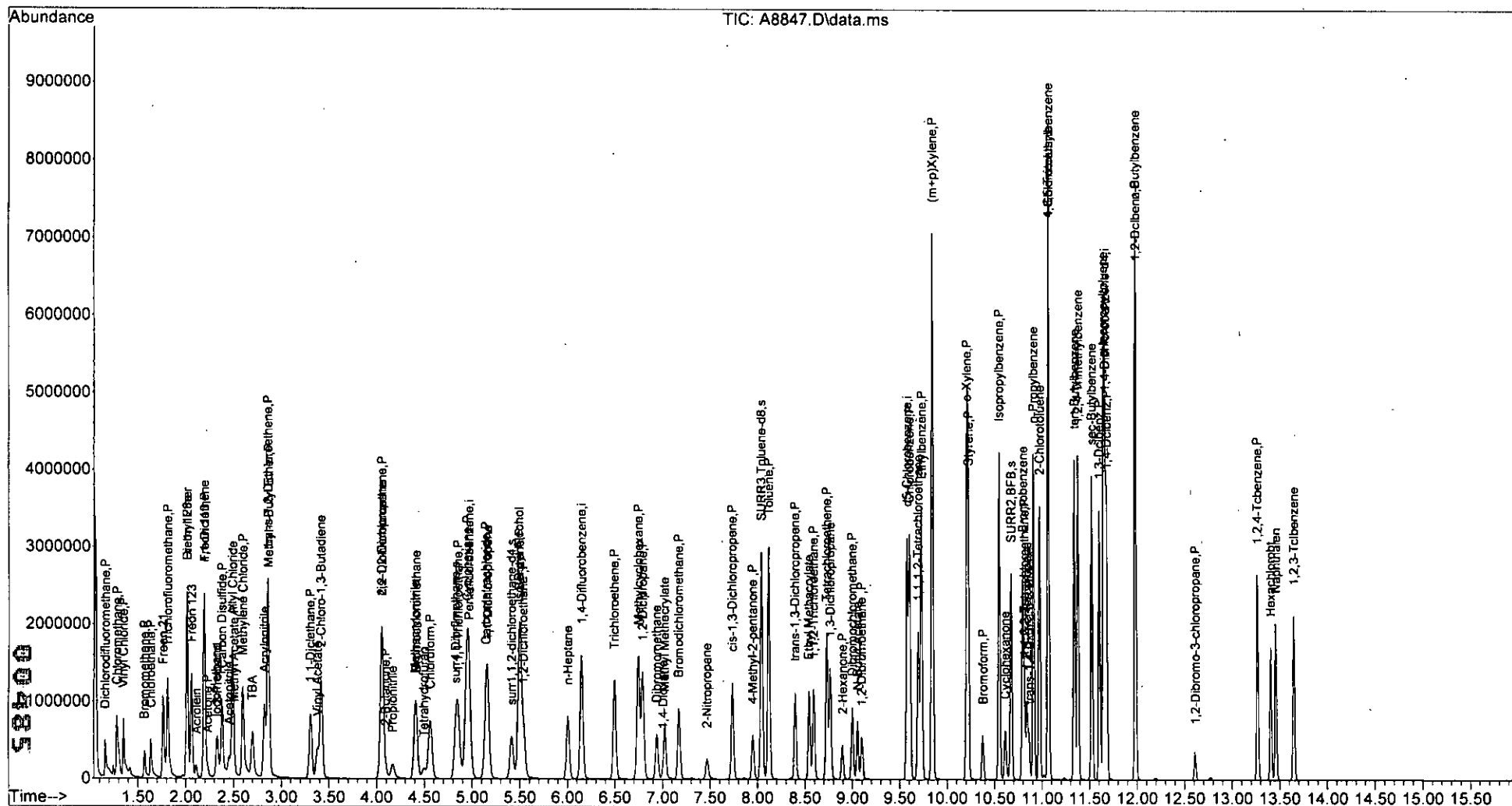
Ion	Exp%	Act%
88.10	100	100
58.10	61.10	86.31#
0.00	0.00	0.00
0.00	0.00	0.00

Wx/JS

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8847.D
Acq On : 25 May 2015 5:43 am
Operator : F.Naegler
Sample : R1503862-007MS|1.0
Misc : CBI 13429 T4
ALS Vial : 43 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 12:19:03 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Sample Name: BAT-EW-6-150518
Lab Code: RQ1505558-06
Run Type: Duplicate Matrix Spike

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 06:13

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQU\DATA\MSVOA10\DATA\052415\A8848.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	49.2		1.0	0.21	
75-01-4	Vinyl Chloride	50.2		1.0	0.32	
75-00-3	Chloroethane	50.7		1.0	0.24	
74-83-9	Bromomethane	32.6		1.0	0.29	
75-35-4	1,1-Dichloroethene	50.2		1.0	0.57	
67-64-1	Acetone	54.2		5.0	1.3	
75-15-0	Carbon Disulfide	47.4		1.0	0.22	
75-09-2	Methylene Chloride	48.1		1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	50.6		1.0	0.33	
75-34-3	1,1-Dichloroethane	52.0		1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	77.0		1.0	0.30	
78-93-3	2-Butanone (MEK)	46.1		5.0	0.81	
67-66-3	Chloroform	50.3		1.0	0.25	
71-55-6	1,1,1-Trichloroethane	51.9		1.0	0.36	
56-23-5	Carbon Tetrachloride	53.3		1.0	0.45	
71-43-2	Benzene	49.5		1.0	0.20	
107-06-2	1,2-Dichloroethane	49.2		1.0	0.36	
79-01-6	Trichloroethene	50.4		1.0	0.22	
78-87-5	1,2-Dichloropropane	49.5		1.0	0.20	
75-27-4	Bromodichloromethane	50.4		1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	44.6		1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	47.5		5.0	0.67	
108-88-3	Toluene	48.6		1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	44.0		1.0	0.20	
79-00-5	1,1,2-Trichloroethane	47.5		1.0	0.34	
127-18-4	Tetrachloroethene	49.9		1.0	0.30	
591-78-6	2-Hexanone	52.1		5.0	1.7	
124-48-1	Dibromochloromethane	54.9		1.0	0.31	
108-90-7	Chlorobenzene	52.5		1.0	0.29	
100-41-4	Ethylbenzene	47.9		1.0	0.20	
179601-23-1	m,p-Xylenes	105		2.0	0.33	
95-47-6	o-Xylene	52.3		1.0	0.20	
100-42-5	Styrene	42.6		1.0	0.20	
75-25-2	Bromoform	52.8		1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	54.1		1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/Semiannual Groundwater - 148900
Sample Matrix: Water

Service Request: R1503862
Date Collected: 5/18/15 1120
Date Received: 5/20/15
Date Analyzed: 5/25/15 06:13

Sample Name: BAT-EW-6-150518
Lab Code: RQ1505558-06
Run Type: Duplicate Matrix Spike

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA10\DATA\052415\A8848.D\

Analysis Lot: 446162
Instrument Name: R-MS-10
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85-122	5/25/15 06:13	
Toluene-d8	96	87-121	5/25/15 06:13	
Dibromofluoromethane	99	89-119	5/25/15 06:13	

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8848.D
 Acq On : 25 May 2015 6:13 am
 Operator : F.Naegler
 Sample : R1503862-007DMS1.0 *PQ-505558-06* Inst : MSVOA10
 Misc : CBI 13429 T4
 ALS Vial : 44 Sample Multiplier: 1

Quant Time: May 26 12:24:01 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	4.963	168	972179	50.00	ug/L	0.00
41) 1,4-Difluorobenzene	6.152	114	1484452	50.00	ug/L	0.00
70) d5-Chlorobenzene	9.578	117	1327480	50.00	ug/L	0.00
90) 1,4-Dichlorobenzene-d4	11.657	152	771924	50.00	ug/L	0.00
System Monitoring Compounds						
43) surr4,Dibrlmethane	4.835	113	457843	49.42	ug/L	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	98.84%	
46) surr1,1,2-dichloroetha...	5.414	65	472408	49.62	ug/L	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	99.24%	
64) SURR3,Toluene-d8	8.042	98	1696601	48.04	ug/L	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	96.08%	
69) SURR2,BFB	10.675	95	665587	46.37	ug/L	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	92.74%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.159	85	473761m	46.93	ug/L	
3) Chloromethane	1.281	50	908669	49.17	ug/L	100
4) Vinyl Chloride	1.348	62	675604	50.19	ug/L	96
5) Bromomethane	1.567	94	181696	32.63	ug/L	100
6) Chloroethane	1.634	64	335214	50.72	ug/L	91
7) Freon 21	1.762	67	996019	61.68	ug/L	99
8) Trichlorofluoromethane	1.811	101	677687	52.15	ug/L	98
9) Diethyl Ether	2.012	59	412209	52.67	ug/L #	75
10) Freon 123a	2.012	67	578217	58.65	ug/L	95
11) Freon 123	2.061	83	586716	53.79	ug/L	80
12) Acrolein	2.110	56	102051	69.42	ug/L	93
13) 1,1-Dicethene	2.195	96	359811	50.23	ug/L #	77
14) Freon 113	2.195	101	367537	49.05	ug/L	96
15) Acetone	2.226	43	154068	54.23	ug/L	95
16) 2-Propanol	2.329	45	549254	1077.59	ug/L	94
17) Iodomethane	2.323	142	333746	31.47	ug/L	100
18) Carbon Disulfide	2.378	76	1220092	47.42	ug/L	99
19) Acetonitrile	2.451	40	128113	285.88	ug/L	96
20) Allyl Chloride	2.488	76	214860	46.11	ug/L #	10
21) Methyl Acetate	2.500	43	284628	40.20	ug/L	85
22) Methylene Chloride	2.598	84	422428	48.07	ug/L #	61
23) TBA	2.695	59	667220	1021.93	ug/L	62
24) Acrylonitrile	2.823	53	762507	242.60	ug/L	94
25) Methyl-t-Butyl Ether	2.866	73	957657	46.76	ug/L	85
26) trans-1,2-Dichloroethene	2.860	96	407628	50.56	ug/L #	82
27) 1,1-Dicethane	3.305	63	936295	52.02	ug/L	99
28) Vinyl Acetate	3.378	86	45028	31.02	ug/L #	71
30) 2-Chloro-1,3-Butadiene	3.415	53	924785	44.18	ug/L	85
32) 2,2-Dichloropropane	4.055	77	307466	26.44	ug/L	93
33) cis-1,2-Dichloroethene	4.055	96	743903	76.99	ug/L	94
34) 2-Butanone	4.091	43	210819	46.10	ug/L	87
35) Propionitrile	4.170	54	278919	245.74	ug/L	93
36) Bromochloromethane	4.408	130	293954	49.47	ug/L #	68
37) Methacrylonitrile	4.408	67	119123	44.42	ug/L #	32

YH
5/26/15

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8848.D
 Acq On : 25 May 2015 6:13 am
 Operator : F.Naegler
 Sample : R1503862-007DMS|1.0
 Misc : CBI 13429 T4
 ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 12:24:01 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Tetrahydrofuran	4.494	42	137960	48.80	ug/L	69
39) Chloroform	4.561	83	804759	50.26	ug/L	96
40) 1,1,1-Trichloroethane	4.853	97	706573	51.88	ug/L	95
42) Cyclohexane	4.951	41	703927	49.87	ug/L	89
44) Carbontetrachloride	5.152	121	195586	53.33	ug/L	86
45) 1,1-Dichloropropene	5.164	75	582088	48.51	ug/L	95
47) Benzene	5.499	78	1840488	49.47	ug/L	84
48) 1,2-Dichloroethane	5.542	62	631227	49.15	ug/L	91
49) Iso-Butyl Alcohol	5.493	43	372291	964.84	ug/L	92
51) n-Heptane	6.005	43	574905	35.54	ug/L #	79
53) Trichloroethene	6.493	130	518401	50.43	ug/L	94
54) Methylcyclohexane	6.749	55	711199	46.78	ug/L #	80
55) 1,2-Dichloropropane	6.792	63	542645	49.48	ug/L	98
56) Dibromomethane	6.938	93	231310	47.94	ug/L	97
57) 1,4-Dioxane	7.005	88	60159m	1099.20	ug/L	
58) Methyl Methacrylate	7.024	69	208232	48.20	ug/L #	45
59) Bromodichloromethane	7.176	83	581961	50.36	ug/L	98
60) 2-Nitropropane	7.463	41	150720	119.08	ug/L	100
62) cis-1,3-Dichloropropene	7.737	75	584082	44.59	ug/L	95
63) 4-Methyl-2-pentanone	7.950	43	445864	47.47	ug/L	89
65) Toluene	8.121	91	1953720	48.63	ug/L	99
66) trans-1,3-Dichloropropene	8.395	75	479780	43.95	ug/L	97
67) Ethyl Methacrylate	8.548	69	418371	48.63	ug/L #	59
68) 1,1,2-Trichloroethane	8.590	97	340062	47.48	ug/L	96
71) Tetrachloroethene	8.731	164	398398	49.93	ug/L	97
72) 2-Hexanone	8.895	43	311695	52.05	ug/L	87
73) 1,3-Dichloropropane	8.767	76	598772	51.62	ug/L #	75
74) Dibromochloromethane	8.999	129	434502	54.89	ug/L	95
75) N-Butyl Acetate	9.054	43	609582	42.38	ug/L	92
76) 1,2-Dibromoethane	9.096	107	341739	52.86	ug/L	97
78) Chlorobenzene	9.608	112	1370361	52.50	ug/L	96
80) 1,1,1,2-Tetrachloroethane	9.694	131	458890	51.35	ug/L	98
81) Ethylbenzene	9.730	106	656335	47.94	ug/L	97
82) (m+p)Xylene	9.840	106	1735691	105.38	ug/L #	87
83) o-Xylene	10.206	106	855098	52.33	ug/L	96
84) Styrene	10.224	104	1178443	42.59	ug/L	94
85) Bromoform	10.377	173	227416	52.76	ug/L	100
87) Isopropylbenzene	10.547	105	2210838	55.07	ug/L	100
88) Cyclohexanone	10.614	55	253853	593.65	ug/L	91
89) trans-1,4-Dichloro-2-B...	10.864	53	115435	39.86	ug/L #	76
91) 1,1,2,2-Tetrachloroethane	10.816	83	426505	54.10	ug/L	98
92) Bromobenzene	10.797	156	568719	50.86	ug/L	93
93) 1,2,3-Trichloropropane	10.840	110	117452	50.61	ug/L	92
94) n-Propylbenzene	10.907	91	2579046	56.23	ug/L	99
95) 2-Chlorotoluene	10.974	91	1545235	53.74	ug/L	96
97) 4-Chlorotoluene	11.065	91	1860005	54.26	ug/L	98
98) 1,3,5-Trimethylbenzene	11.065	105	1710355	49.93	ug/L	98
99) tert-Butylbenzene	11.340	119	1607984	54.08	ug/L	97
100) 1,2,4-Trimethylbenzene	11.376	105	1675556	47.90	ug/L	98
102) sec-Butylbenzene	11.523	105	2199486	54.48	ug/L	97
103) p-Isopropyltoluene	11.645	119	1962987	54.57	ug/L	97

Data Path : I:\ACQUDATA\msvoa10\data\052415\

Data File : A8848.D

Acq On : 25 May 2015 6:13 am

Operator : F.Naegler

Sample : R1503862-007DMS|1.0

Inst : MSVOA10

Misc : CBI 13429 T4

ALS Vial : 44 Sample Multiplier: 1

Quant Time: May 26 12:24:01 2015

Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M

Quant Title : MS#10 - 8260B WATERS 10mL Purge

QLast Update : Thu May 07 14:25:48 2015

Response via : Initial Calibration

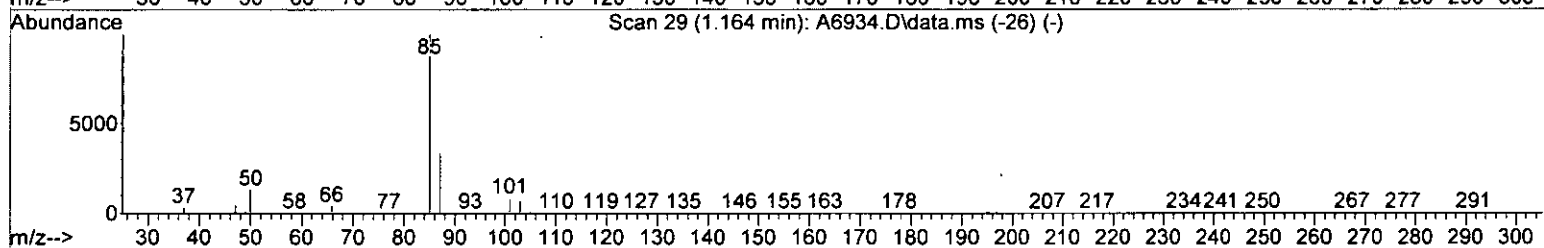
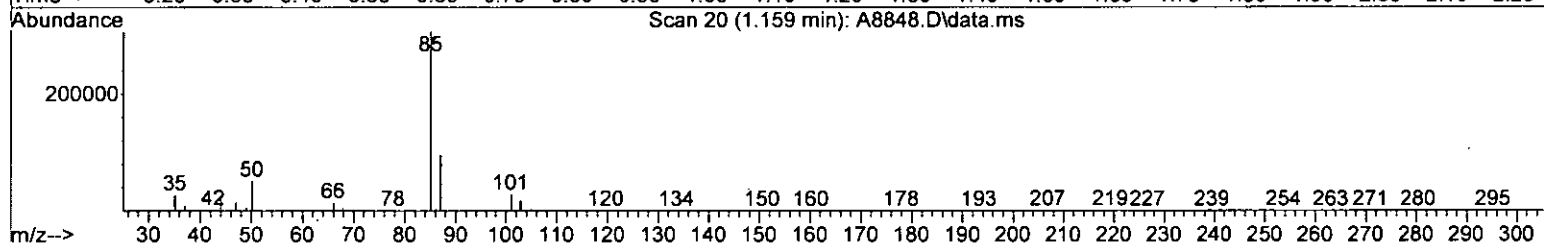
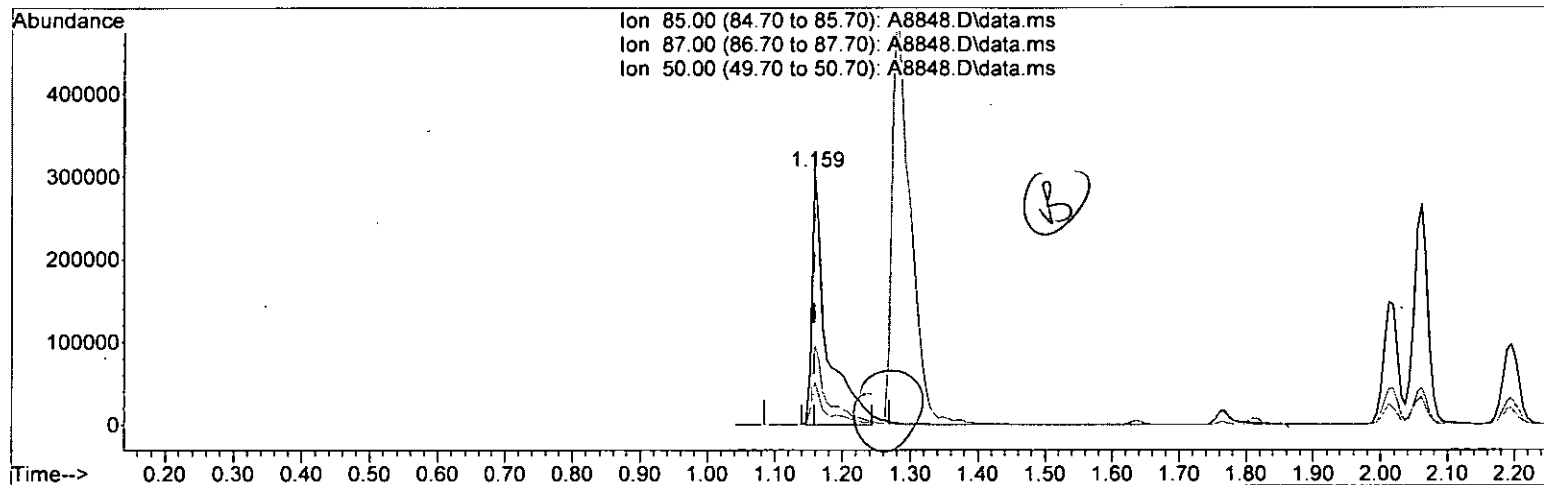
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
104) 1,3-Dclbenz	11.602	146	1164479	51.17	ug/L	97
105) 1,4-Dclbenz	11.681	146	1217639	51.04	ug/L	96
108) n-Butylbenzene	11.980	91	1653089	52.04	ug/L	96
109) 1,2-Dclbenz	11.986	146	1086442	51.65	ug/L	99
110) 1,2-Dibromo-3-chloropr...	12.614	157	74465	51.62	ug/L	90
114) 1,2,4-Tcbenzene	13.266	180	663288	50.05	ug/L	97
115) Hexachlorobt	13.406	225	248218	45.24	ug/L	97
116) Naphthalen	13.461	128	1344599	54.14	ug/L	98
117) 1,2,3-Tclbenzene	13.650	180	571242	52.34	ug/L	99

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

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8848.D
Acq On : 25 May 2015 6:13 am
Operator : F.Naegler
Sample : R1503862-007DMS|1.0
Misc : CBI 13429 T4
ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 06:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8848.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 45.81 ug/L

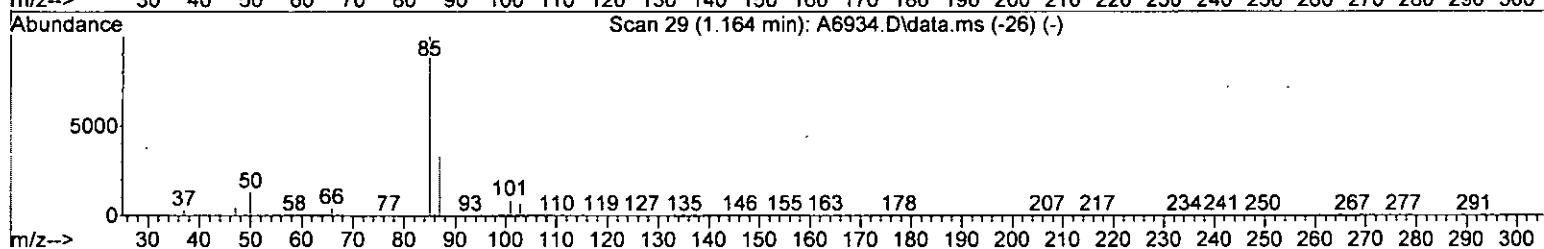
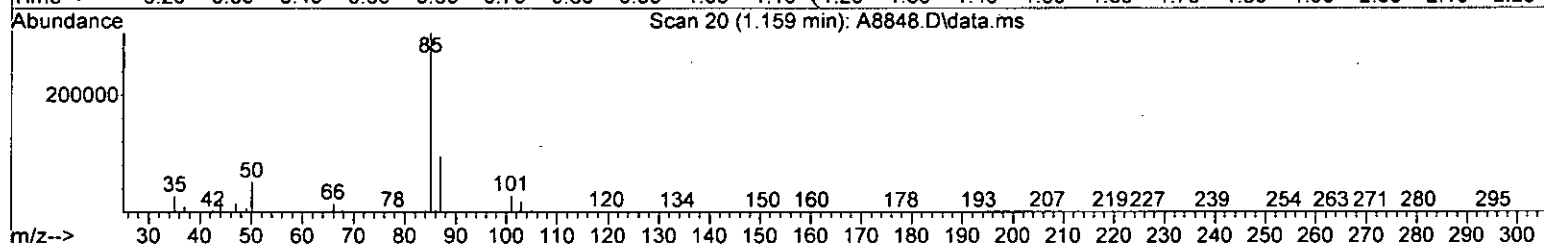
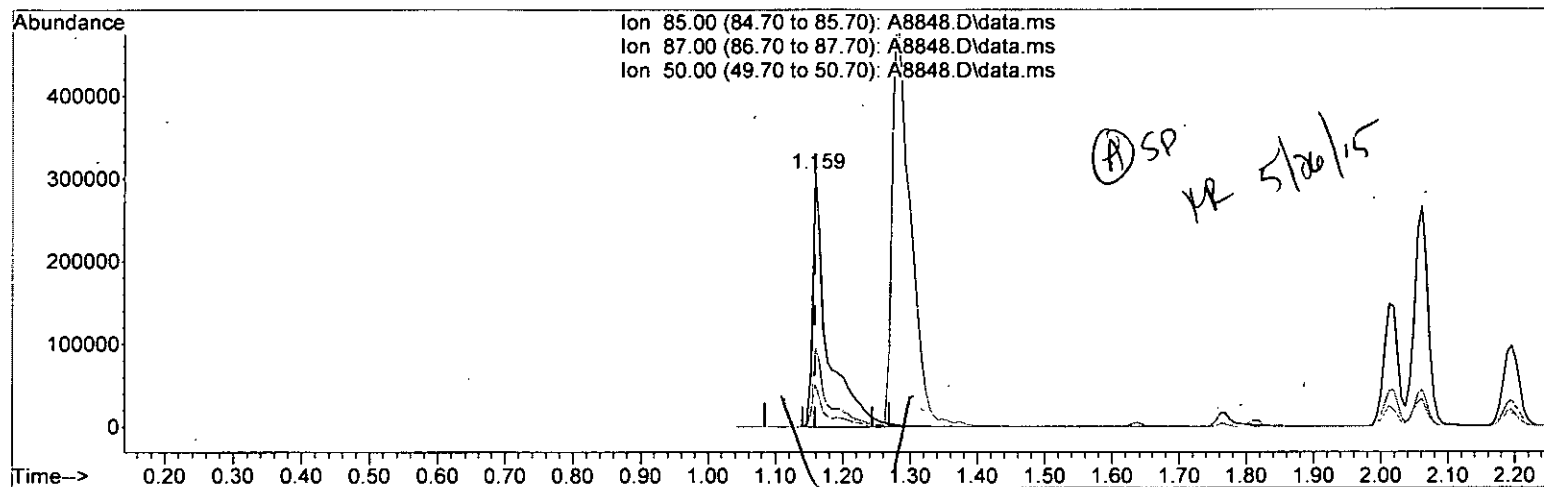
response 462441

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.98
50.00	15.00	16.66
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8848.D
Acq On : 25 May 2015 6:13 am
Operator : F.Naegler
Sample : R1503862-007DMS|1.0
Misc : CBI 13429 T4
ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 06:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8848.D\data.ms

(2) Dichlorodifluoromethane (P)

1.159min (+0.000) 46.93 ug/L m

response 473761

Ion	Exp%	Act%
85.00	100	100
87.00	31.50	30.98
50.00	15.00	16.66
0.00	0.00	0.00

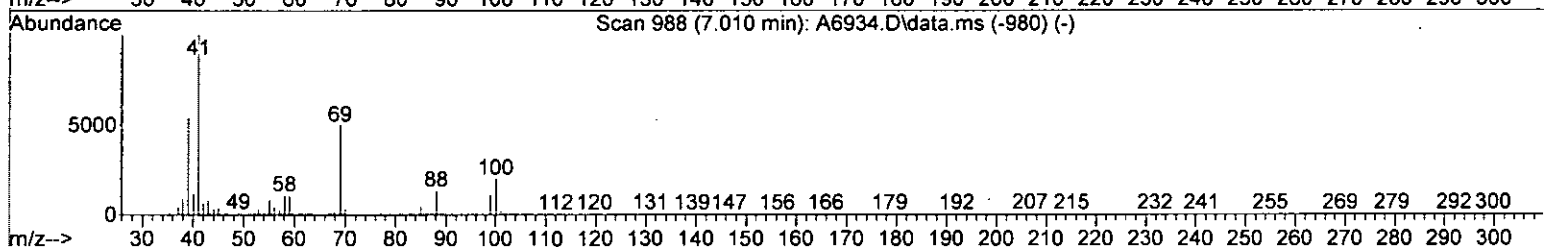
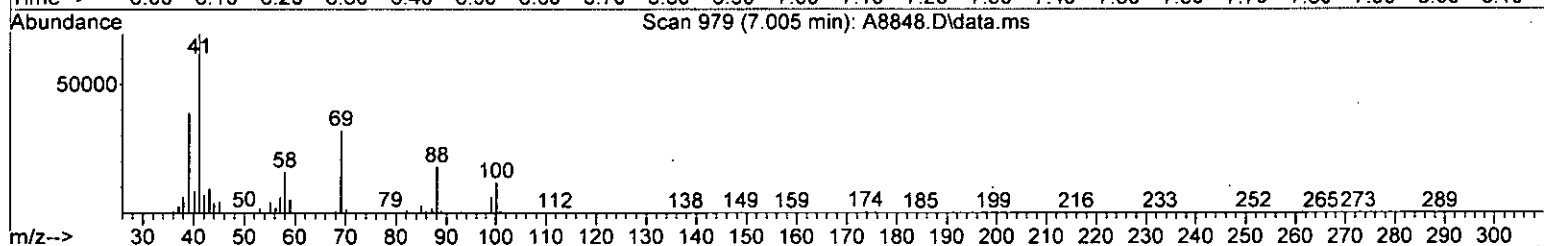
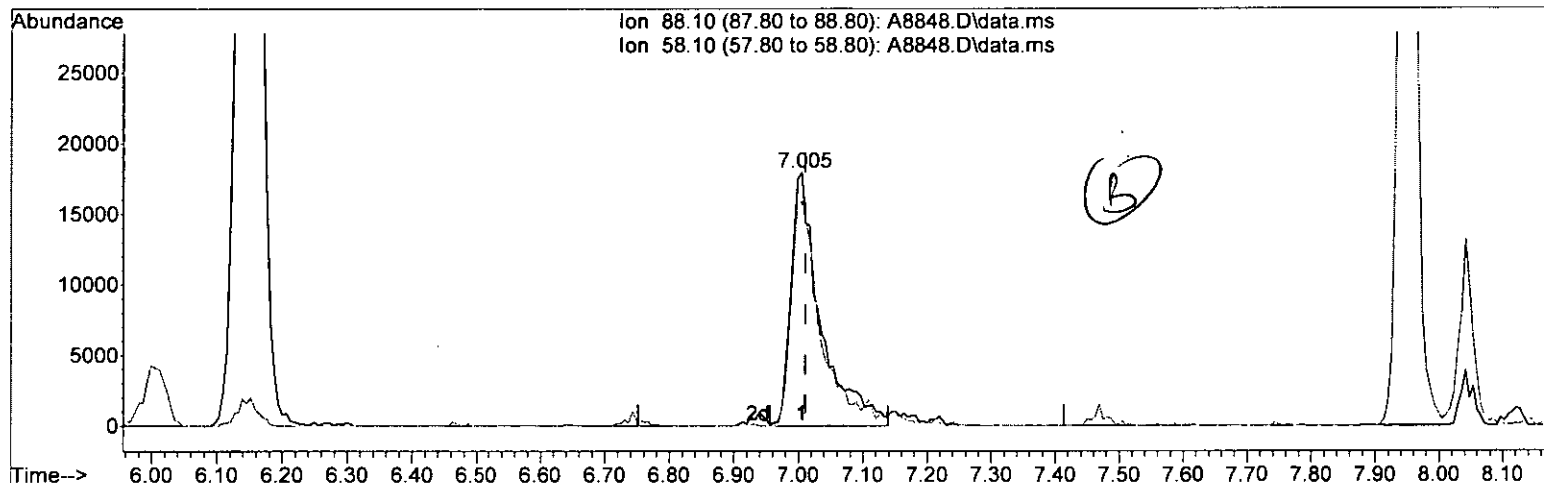
Wm/

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa10\data\052415\
 Data File : A8848.D
 Acq On : 25 May 2015 6:13 am
 Operator : F.Naegler
 Sample : R1503862-007DMS|1.0
 Misc : CBI 13429 T4
 ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 06:28:29 2015
 Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
 Quant Title : MS#10 - 8260B WATERS 10mL Purge
 QLast Update : Thu May 07 14:25:48 2015
 Response via : Initial Calibration



TIC: A8848.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 1042.08 ug/L

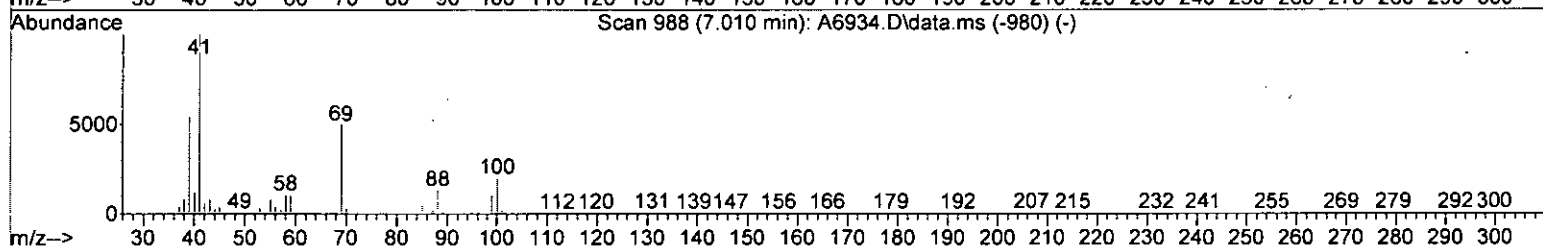
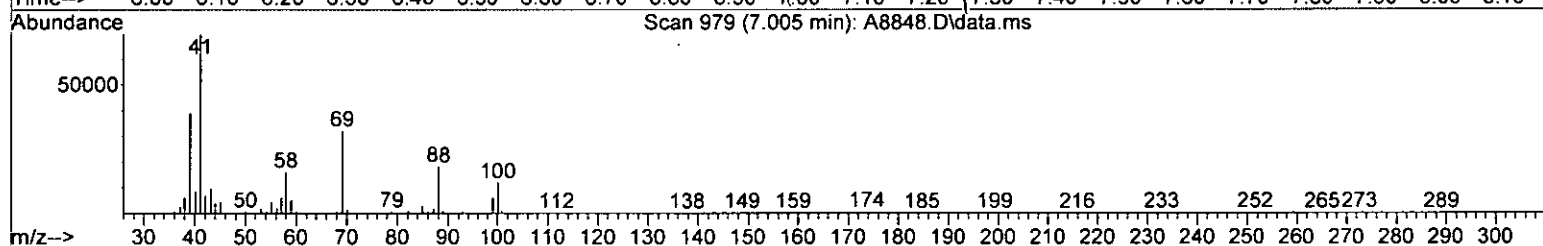
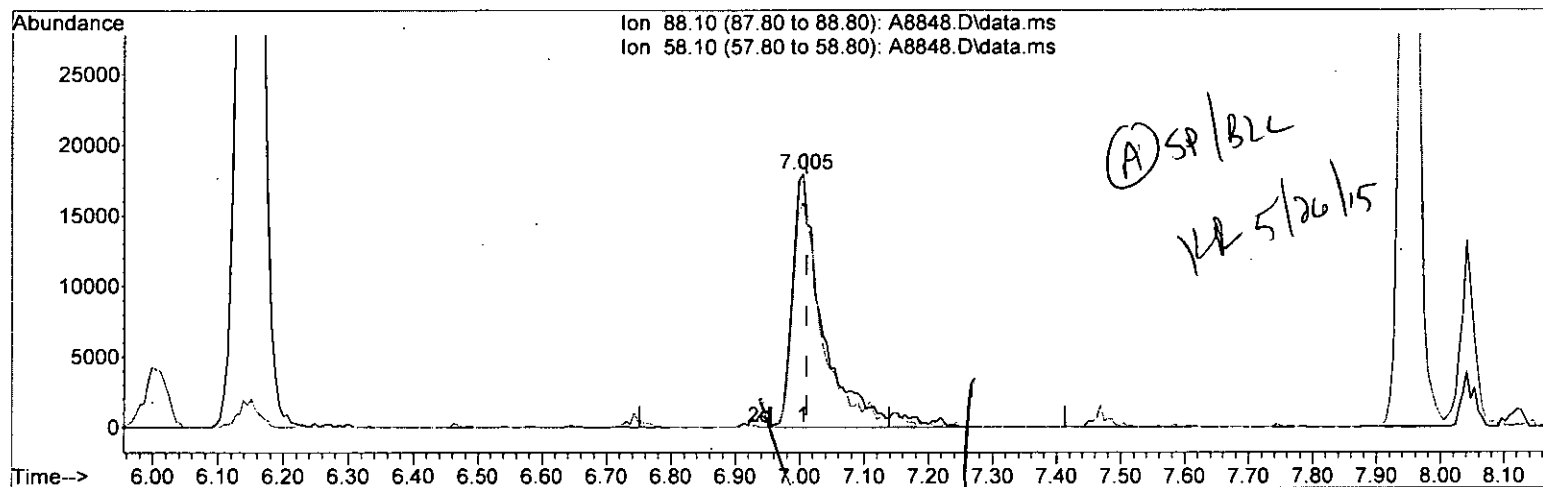
response 57033

Ion	Exp%	Act%
88.10	100	100
58.10	61.10	88.86#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8848.D
Acq On : 25 May 2015 6:13 am
Operator : F.Naegler
Sample : R1503862-007DMS|1.0
Misc : CBI 13429 T4
ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 25 06:28:29 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



TIC: A8848.D\data.ms

(57) 1,4-Dioxane

7.005min (-0.006) 1099.20 ug/L m

response 60159

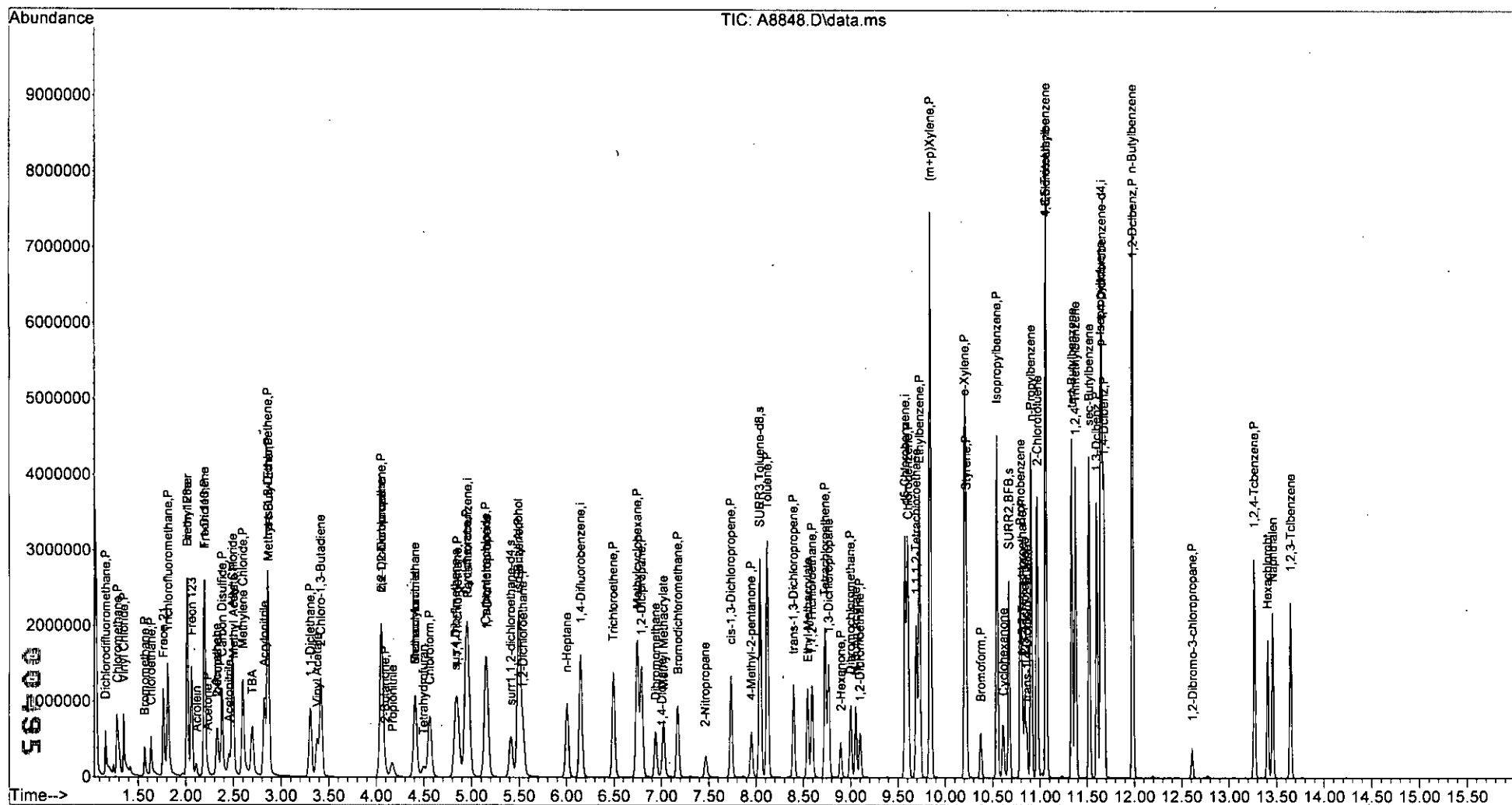
Ion	Exp%	Act%
88.10	100	100
58.10	61.10	88.86#
0.00	0.00	0.00
0.00	0.00	0.00

WV/SL

Data Path : I:\ACQUDATA\msvoa10\data\052415\
Data File : A8848.D
Acq On : 25 May 2015 6:13 am
Operator : F.Naegler
Sample : R1503862-007DMS|1.0
Misc : CBI 13429 T4
ALS Vial : 44 Sample Multiplier: 1

Inst : MSVOA10

Quant Time: May 26 12:24:01 2015
Quant Method : I:\ACQUDATA\MSVOA10\METHODS\W050615.M
Quant Title : MS#10 - 8260B WATERS 10mL Purge
QLast Update : Thu May 07 14:25:48 2015
Response via : Initial Calibration



Blank
pages

Analysis: 82650 Analyst: F. Naugle Tune Method: T050615.M
 Date: 5/6/15 Data Path: j:\acqdata\msvoa\01 050615 Run Method: W050615.M
 Instr: MS #10 LIMS Run#: —

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE								A8244	Y	
2	CCV								45	(N)	
3	LCS								46	(N)	
4	MBLK								47	—	
5	MBLK								48	—	Recalibrate!
1	BLK								49	Y	
1	TUNE								50	Y	
2	ICALBLK								51	Y	
3	0.5 ppb Std								52	Y	
4	1.0								53	Y	
5	2.0								54	Y	
6	5.0								55	Y	
7	20								56	Y	
8	50								57	Y	
9	100								58	Y	
10	150								59	Y	
11	200								60	Y	
12	BLK								61	Y	
13	BLK								62	Y	
14	BLK								63	Y	
15	Soppb Icv								64	Y	

WATER ICAL TABLE										
CONC (PPB)	0.5	1.0	2.0	5.0	20	50	100	150	200	
1° T/G = 80716	10µl/1ml 5µl/50µl	10µl/5µl	20µl/5µl	50µl/5µl	2µl/5µl	5µl/5µl	10µl/5µl	15µl/5µl	20µl/5µl	
1° HSL = 80863	↓	↓	↓	↓	↓	↓	↓	↓	↓	
1° Fr = 80865	↓	↓	↓	↓	↓	↓	↓	↓	↓	
1° H80 = 80514	↓	↓	↓	↓	↓	↓	↓	↓	↓	
1° OCC = 80330	↓	↓	↓	↓	↓	↓	↓	↓	↓	
SURR = 80872	—	—	—	1µl/5µl	2µl/5µl	—	5µl/5µl	7.5µl/5µl	10µl/5µl	

All samples = 10 mL + 1 µL combined IS/Surr. 10 mL purged

Primary _____
 Primary _____
 Primary _____
 Primary _____
 Primary _____

Fr Secondary 200 : 80315 - 12.5µl
 T/G Secondary 500 : 80762 - 5µl
 HSL Secondary : 80794 -
 H80 Secondary : 80314 -
 OCC Secondary ↓ : 80331 -
(ICV)

Combined IS/Surr 500 : 80685
 Surrogate : —
 Internal Std : —

Analysis: 8260C
 Date: 5/24/15 #2
 Instr: MS #10

Analyst: F. Naegele
 Data Path: j:\acqdata\msvoa\052415

Tune Method: T052615.M
 Run Method: W050615.M
 LIMS Run#: 446162

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
25	TUNE								A8829	Y	20:53
26	CCV								30	Y	BMW
27	LCS								31	Y	
28	MBLK								32	(D)	ptc/d
29	MBLK								33	Y	
30	R1503862-012	1.0			13429	4	1	12	34	Y	
31	-001	1.0					1	12	35	Y	
32	-002	1.0					1	12	36	Y	
33	-003	1.0					1	12	37	Y	
34	-004	1.0	5/50mL				1	12	38	Y	
35	-007	1.0					1	12	39	Y	
36	R1503817-001	1.0			6675	2	2	12	40	Y	
37	-006	5.0	10/50mL				2	12	41	(Y)	(DL)
38	-007	1.0					1	12	42	Y	
39	-008	1.0					1	12	43	Y	
40	-009	1.0					1	12	44	Y	
41	-010	1.0					1	12	45	Y	
42	-011	1.0					1	12	46	Y	
43	R1503862-007AS	1.0			13429	4	2	12	47	Y	
44	-007ASD	1.0					3	12	48	Y	6:13 ✓
45	BLK								49		
46	BLK								50		

FD 5/24/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

TLG Primary 500: 81090 - 5uL
 HSL Primary 500: 81179 - 5uL 50mL (CCV)
 Fr Primary 500: 80865 - 5uL
 Primary _____
 Primary _____

Fr Secondary 200: 80981 - 5uL
 TLG Secondary 500: 80762 - 2uL 50mL - 12uL
 HSL Secondary 500: 81165 - 2uL (LCS) - 5uL (Surr)
 Secondary _____
 Secondary _____

Combined IS/Surr 500: 81272
 Surrogate: _____
 Internal Std: _____

Analysis: 8260 waterAnalyst: K. WestTune Method: W050615Date: 5/25/15Data Path: j:\acqdata\msvoa\10\052515Run Method: ↓Instr: 10LIMS Run#: 44616460 / 446166

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	WWE (carbon 4/4u)		R01505534 - 01	Q5539-01					A8851	YT	(auto) 8:26
2	CCV		02	02					A8852	YC	Bromomethyl iodide ↓
1	LCS		03	03					A8853	YB	
2	WUL		04	04					A8854	YB	up 1/2
3	↓								A8855	YB	
4	R1503791 - 001	1.0			10056	3	1	12	A8856	Y	
5	↓	003					1	12	A8857	Y	
6	↓	004					1	12	A8858	Y	
7	↓	005					1	12	A8859	Y	
8	R1503792 - 010	1.0			10056	3	2	12	A8860	Y	
9	↓	011					2	12	A8861	Y	
10	↓	005	2.0	25/50mls			2	12	A8862	Y	(DL)
11	↓	009	5.0	10/50mls			2	12	A8863	Y	(DL)
12	R1503792 - 005	1.0			13429	4	1	12	A8864	Y	
13	↓	006	10	5/50mls			1	12	A8865	Y	
14	↓	008	10	↓			1	12	A8866	Y	
15	↓	009	200	1/200mls			1	12	A8867	Y	Rpt 1/500
16	↓	010	250	2/250mls			1	12	A8868	Y	Rpt 1/1000
17	↓	011	100	2/200mls			1	12	A8869	Y	Rpt 1/2
18	ms	012	100	↓			1	12	A8870	Y	↓
19	msd	012	100	↓			1	12	A8871	Y	↓
20	R1503791 - 001	1.0	ms		10056	3	2	12	A8872	Y	
21	↓	001	1.0	msd			3	12	A8873	Y	
22	H16HSTD								A8874	-	
23	↓								A8875	-	
24	BUL								A8876	-	
25	↓								A8877	-	

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary CC : 81087
 Primary Frt : 81085 5uL → 50mls
 Primary T6 : 81090 = CCV
 Primary HSL : 81179
 Primary :

Secondary Frt : 81081 - 5uL
 Secondary CC : 81088
 Secondary T6 : 81062 1uL
 Secondary HSL : 81105
 Secondary :

-10.6uL
 50mls
 = LCS
 1/2uL
 1/2ml vial = msd

Combined IS/Surr : 81272
 Surrogate :
 Internal Std :

Analysis: 8260 C
 Date: 5/26/15 #2
 Instr: MS #10

Analyst: F. Waugler
 Data Path: j:\acquadata\msvoa\052615

Tune Method: T050615.M
 Run Method: W050615.M
 LIMS Run#: 446223

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
26	TUNE		R01505061-01						A0905	Y	
27	CCV		02						06	Y	
28	LCS		03						07	Y	
29	MBLK		—						08	(N)	
30	MBLK		04						09	Y	
31	R1503862-009	500.0	1/500mL → 5/500mL		13429	4	2	42	10	Y	
32	↓ -010	1000.0	1/1000mL → 5/500mL		↓	↓	2	42	11	Y	
33	↓ -011	2.0	25/500mL		↓	↓	2	42	12	(N)	RA 111
34	R1503930-001	1.0			9145	2	1	42	13	Y	
35	↓ -002	1.0			↓	↓	1	42	14	Y	
36	R1502608-072	1.0			9866	2	1	42	15	Y	
37	↓ -043	1.0			↓	↓	1	42	16	Y	
38	↓ -044	1.0			↓	↓	1	42	17	Y	
39	↓ -046	1.0			↓	↓	1	42	18	Y	
40	↓ -047	1.0			↓	↓	1	42	19	Y	
41	↓ -062	1.0			↓	↓	1	42	20	Y	
42	R1503935-003	1.0			7969	2	1	42	21	(N)	MASS CAM Rpt
43	↓ -001	1.0			↓	↓	1	42	22	(X)	Rpt 1/2.5
44	↓ -002	5.0	10/500mL		↓	↓	1	42	23	(N)	Rpt 1/1
45	↓ -004	1.0			↓	↓	1	42	24	(X)	
46	↓ -005	1.0			↓	↓	1	42	25	(X)	
47	R1503862-011AS	2.0	25/500mL		13429	4	3	42	26	(N)	Rpt 4.1
48	↓ -011ASD	2.0	↓		↓	↓	3	42	27	(N)	↓
49	BLK								28		

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

T/G Primary S00: 81090 - 5mL
 H/L Primary S00: 81179 - 5mL
 Fr Primary S00: 80865 - 5mL
 Primary
 Primary

(CCV)

Fr Secondary 200: 80981 - 5mL
 T/G Secondary S00: 80762 - 2mL
 H/L Secondary S00: 81165 - 2mL
 Secondary
 Secondary

Combined IS/Surr S00: 81272
 Surrogate
 Internal Std

Analysis: 8260C
 Date: 5/27/15
 Instr: MS#10

Analyst: F. Naegler
 Data Path: j:\acqdata\msvoa\052715

Tune Method: T050615.M
 Run Method: W050615.M
 LIMS Run#: 746543.M

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	TUNE								A8929	Y	
2	CCV								30	(N)	
2	GAS STD								31	-	
1	TUNE								32	Y	
2	CCV								33	(N)	install new trap.
1	200 ppb std								34	Y	
2	BLK								35	Y	
3	BLK								36	Y	
1	TUNE		PQ1505783.01						37	Y	
2	CCV		02						38	Y	
3	LCS		03						39	Y	
4	M.BLK								40	(N)	
5	M.BLK		04						41	Y	
6	R1503773-046	1.0			6734	2	1	<2	42	Y	
7	-047	1.0					1	<2	43	Y	
8	-048	1.0					1	<2	44	Y	
9	-049	1.0					1	<2	45	Y	* Same as R1503952-001
10	R1503952-002	2.0	25/50mL		6734	2	1	<2	46	Y	
11	R1503773-028	1.0			6734	2	1	<2	47	Y	
12	-029	1.0					1	<2	48	Y	
13	-030	1.0					1	<2	49	Y	
14	-031	1.0					1	<2	50	Y	
15	-032	1.0					1	<2	51	Y	
16	-040	1.0					1	<2	52	Y	
17	-041	1.0					1	<2	53	Y	
18	-042	1.0					1	<2	54	Y	
19	-043	1.0					1	<2	55	Y	
20	-044	1.0					1	<2	56	Y	
21	-045	1.0					1	<2	57	Y	
22	R1503862-011	1.0		CPI	13429	4	4	<2	58	Y	
23	-011ms	1.0	PQ1505783.05				5	<2	59	Y	
24	-011MSD	1.0	06				6	<2	60	Y	

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

TLG Primary 500 : 81090 - 5mL
 TLG Primary : 81179 -
 Fr Primary : 80865 -
 H80 Primary : 81279 -
 OCE Primary : 81087 -

(CCV)

Fr Secondary 200 : 80981 - 5mL
 TLG Secondary 500 : 80762 - 2mL
 H80 Secondary : 81165 -
 H80 Secondary : 80990 -
 OCE Secondary : 81088 -

-12mL
 -5mL
 5mL
 (LCC)
 (S/MC)

Combined IS/Surr 500 : 81272
 Surrogate :
 Internal Std :



ALS Environmental
ALS Group USA, Corp
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Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

July 07, 2015

Analytical Report for Service Request No: R1504946

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield/148900.33.000000

Dear Ms. Byers:

Enclosed are the results of the sample(s) submitted to our laboratory on June 20, 2015. For your reference, these analyses have been assigned our service request number **R1504946**.

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: Lisa Schermerhorn

Page 1 of 32

ALS Environmental

Client: CB&I
Service Request No.: R1504946
Project: Textron Wheatfield
Date Received: 6/20/15
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

Water samples were received for analysis at ALS Environmental on 6/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed for a site specific list of Volatiles by method 5030C/8260C from SW-846.

All initial and continuing calibration criteria were met for all compounds.

All Tuning criteria were within QC limits.

BAT-EW-2-150619 was not received at a pH of less than 2 and was not analyzed within 7 days of collection.

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

Site specific QC was performed on BAT-EW-6-150619 as requested. All MS/MSD recoveries were acceptable. All RPD's were within limits except Bromomethane and has been flagged with an "**".

All Internal Standard (IS) Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blank associated with these samples was free of contamination.

All samples were analyzed within recommended holding times.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 148900.33.000000	Batch Complete: Yes	Date Revised:
Submission: R1504946	Diskette Requested: No	Date Due: 7/6/15
Client: CB&I	Date: 6/23/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Textron Wheatfield	Chain of Custody: Present/Absent:	SDG #: BAT-FIELDBLANK-150619

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1504946-001	BAT-FIELDBLANK-150619	Water	8260C	6/19/15	6/20/15			
R1504946-002	BAT-EW-2-150619	Water	8260C	6/19/15	6/20/15			
R1504946-003	BAT-EW-3-150619	Water	8260C	6/19/15	6/20/15			
R1504946-004	BAT-EW-5-150619	Water	8260C	6/19/15	6/20/15			
R1504946-005QC	BAT-EW-6-150619	Water	8260C	6/19/15	6/20/15			
R1504946-006	BAT-93-03(1)-150619	Water	8260C	6/19/15	6/20/15			
R1504946-007	Trip blank	Water	8260C	6/19/15	6/20/15			
R1504946-008	BAT-DUP-2-150619	Water	8260C	6/19/15	6/20/15			

00000

Folder Comments: in excel



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/Aroclors). 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 ($\geq 100\%$ 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.



Rochester Lab ID # for State Certifications¹

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

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



Cooler Receipt and Preservation Check Form

R1504946

CB&I Environmental & Infrastructure
Textron Wheatfield

5



Project/Client CB&I Folder Number 4446

Cooler received on 6/20/15 by dn COURIER: ALS UPS ~~FEDX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒ N
2	Custody papers properly completed (ink, signed)?	☒ N
3	Did all bottles arrive in good condition (unbroken)?	☒ N
4	Circle: ~~Wet Ice~~ Dry Ice Gel packs present?	☒ N

5a	Perchlorate samples have required headspace?	Y N ☒ NA
5b	Did ~~VOA~~ vials, Alk, or Sulfide have sig* bubbles?	☒ N NA
6	Where did the bottles originate?	ALSTROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set ☒ NA

8. Temperature Readings Date: 6/20/15 Time: 1110 ID: IR#3 RG#5 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.3°</u>						
Correction Factor (°C)	<u>-1.6°</u>						
Corrected Temp (°C)	<u>1.7°</u>						
Within 0-6°C?	☒ 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: Rwz by SPW on 6/20/15 at 1110
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: 6/23/15

Cooler Breakdown: Date: 6/22/15 Time: 0950 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- 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 ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	Zn Acetate	-	-						
	HCl	**	**	<u>4114D7D</u>	<u>5/16</u>				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

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

Bottle lot numbers: 05-072-002

Other Comments:

3 vials for the Trip Blanks
1 vial for BAT-93-0811-150614
1 vial for BAT-EW-2-150614
1 vial for BAT-EW-5-150614

PC Secondary Review: 6/23/15

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

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 0945
Date Received: 6/20/15
Date Analyzed: 6/28/15 16:01

Sample Name: BAT-FIELDBLANK-150619
Lab Code: R1504946-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Tectron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 0945
Date Received: 6/20/15
Date Analyzed: 6/28/15 16:01

Sample Name: BAT-FIELDBLANK-150619
Lab Code: R1504946-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	111	85-122	6/28/15 16:01			
Toluene-d8	107	87-121	6/28/15 16:01			
Dibromofluoromethane	105	89-119	6/28/15 16:01			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1035
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 16:32

Sample Name: BAT-EW-2-150619
 Lab Code: R1504946-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4330.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	2.3 J	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.2	1.0	0.33	
75-34-3	1,1-Dichloroethane	4.0	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	24	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.2	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	3.1	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	5.1	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1035
Date Received: 6/20/15
Date Analyzed: 6/28/15 16:32

Sample Name: BAT-EW-2-150619
Lab Code: R1504946-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4330.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	107	85-122	6/28/15 16:32			
Toluene-d8	107	87-121	6/28/15 16:32			
Dibromofluoromethane	107	89-119	6/28/15 16:32			

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1055
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 18:04

Sample Name: BAT-EW-3-150619
 Lab Code: R1504946-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	10	U	10	2.1	
75-01-4	Vinyl Chloride	960		10	3.2	
75-00-3	Chloroethane	10	U	10	2.4	
74-83-9	Bromomethane	10	U	10	2.9	
75-35-4	1,1-Dichloroethene	6.7	J	10	5.7	
67-64-1	Acetone	50	U	50	13	
75-15-0	Carbon Disulfide	10	U	10	2.2	
75-09-2	Methylene Chloride	10	U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	8.8	J	10	3.4	
75-34-3	1,1-Dichloroethane	11		10	2.0	
156-59-2	cis-1,2-Dichloroethene	1900		10	3.0	
78-93-3	2-Butanone (MEK)	50	U	50	8.2	
67-66-3	Chloroform	4.3	J	10	2.5	
71-55-6	1,1,1-Trichloroethane	14		10	3.6	
56-23-5	Carbon Tetrachloride	10	U	10	4.5	
71-43-2	Benzene	10	U	10	2.0	
107-06-2	1,2-Dichloroethane	10	U	10	3.6	
79-01-6	Trichloroethene	6.5	J	10	2.2	
78-87-5	1,2-Dichloropropane	10	U	10	2.0	
75-27-4	Bromodichloromethane	10	U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10	U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	6.7	
108-88-3	Toluene	10	U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10	U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10	U	10	3.5	
127-18-4	Tetrachloroethene	10	U	10	3.0	
591-78-6	2-Hexanone	50	U	50	17	
124-48-1	Dibromochloromethane	10	U	10	3.1	
108-90-7	Chlorobenzene	10	U	10	2.9	
100-41-4	Ethylbenzene	10	U	10	2.0	
179601-23-1	m,p-Xylenes	20	U	20	3.4	
95-47-6	o-Xylene	10	U	10	2.0	
100-42-5	Styrene	10	U	10	2.0	
75-25-2	Bromoform	10	U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1055
Date Received: 6/20/15
Date Analyzed: 6/28/15 18:04

Sample Name: BAT-EW-3-150619
Lab Code: R1504946-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 18:04			
Toluene-d8	109	87-121	6/28/15 18:04			
Dibromofluoromethane	106	89-119	6/28/15 18:04			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 11:25
 Date Received: 6/20/15
 Date Analyzed: 6/29/15 18:42

Sample Name: BAT-EW-5-150619
 Lab Code: R1504946-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\

Analysis Lot: 451047
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	5.0 U	5.0	1.1	
75-01-4	Vinyl Chloride	500	5.0	1.6	
75-00-3	Chloroethane	5.0 U	5.0	1.2	
74-83-9	Bromomethane	5.0 U	5.0	1.5	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	2.9	
67-64-1	Acetone	25 U	25	6.2	
75-15-0	Carbon Disulfide	5.0 U	5.0	1.1	
75-09-2	Methylene Chloride	5.0 U	5.0	3.0	
156-60-5	trans-1,2-Dichloroethene	4.3 J	5.0	1.7	
75-34-3	1,1-Dichloroethane	5.2	5.0	1.0	
156-59-2	cis-1,2-Dichloroethene	450	5.0	1.5	
78-93-3	2-Butanone (MEK)	25 U	25	4.1	
67-66-3	Chloroform	2.8 J	5.0	1.3	
71-55-6	1,1,1-Trichloroethane	4.2 J	5.0	1.8	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	2.3	
71-43-2	Benzene	5.0 U	5.0	1.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	1.8	
79-01-6	Trichloroethene	2.4 J	5.0	1.1	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	1.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	1.6	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	1.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	
108-88-3	Toluene	5.0 U	5.0	1.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	1.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	1.8	
127-18-4	Tetrachloroethene	5.0 U	5.0	1.5	
591-78-6	2-Hexanone	25 U	25	8.3	
124-48-1	Dibromochloromethane	5.0 U	5.0	1.6	
108-90-7	Chlorobenzene	5.0 U	5.0	1.5	
100-41-4	Ethylbenzene	5.0 U	5.0	1.0	
179601-23-1	m,p-Xylenes	10 U	10	1.7	
95-47-6	o-Xylene	5.0 U	5.0	1.0	
100-42-5	Styrene	5.0 U	5.0	1.0	
75-25-2	Bromoform	5.0 U	5.0	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1125
Date Received: 6/20/15
Date Analyzed: 6/29/15 18:42

Sample Name: BAT-EW-5-150619
Lab Code: R1504946-004

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85-122	6/29/15 18:42	
Toluene-d8	106	87-121	6/29/15 18:42	
Dibromofluoromethane	106	89-119	6/29/15 18:42	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1150
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 17:02

Sample Name: BAT-EW-6-150619
 Lab Code: R1504946-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	0.44 J	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	0.46 J	1.0	0.33	
75-34-3	1,1-Dichloroethane	0.39 J	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	12	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	0.25 J	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1150
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:02

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 17:02			
Toluene-d8	108	87-121	6/28/15 17:02			
Dibromofluoromethane	108	89-119	6/28/15 17:02			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1220
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:33

Sample Name: BAT-93-03(1)-150619
Lab Code: R1504946-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1220
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:33

Sample Name: BAT-93-03(1)-150619
Lab Code: R1504946-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	110	85-122	6/28/15 17:33			
Toluene-d8	109	87-121	6/28/15 17:33			
Dibromofluoromethane	109	89-119	6/28/15 17:33			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 15:30

Sample Name: Trip blank
 Lab Code: R1504946-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15 15:30

Sample Name: Trip blank
Lab Code: R1504946-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 15:30			
Toluene-d8	107	87-121	6/28/15 15:30			
Dibromofluoromethane	105	89-119	6/28/15 15:30			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 19:05

Sample Name: BAT-DUP-2-150619
 Lab Code: R1504946-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4335.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	830	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	9.7 J	10	3.4	
75-34-3	1,1-Dichloroethane	11	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1700	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	3.9 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	12	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	7.2 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15 19:05

Sample Name: BAT-DUP-2-150619
Lab Code: R1504946-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQU\DATA\MSVOA12\DATA\062815\MM4335.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	111	85-122	6/28/15 19:05			
Toluene-d8	108	87-121	6/28/15 19:05			
Dibromofluoromethane	107	89-119	6/28/15 19:05			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/28/15 11:25

Sample Name: Method Blank
 Lab Code: RQ1507088-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4320.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Tectron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/28/15 11:25

Sample Name: Method Blank
Lab Code: RQ1507088-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4320.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	110	85-122	6/28/15 11:25			
Toluene-d8	108	87-121	6/28/15 11:25			
Dibromofluoromethane	109	89-119	6/28/15 11:25			

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/29/15 12:35

Sample Name: Method Blank
 Lab Code: RQ1507136-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\

Analysis Lot: 451047
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	1.0	U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/29/15 12:35

Sample Name: Method Blank
Lab Code: RQ1507136-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85-122	6/29/15 12:35	
Toluene-d8	111	87-121	6/29/15 12:35	
Dibromofluoromethane	107	89-119	6/29/15 12:35	

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15
 Date Received: 6/20/15
 Date Analyzed: 6/28/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150619
 Lab Code: R1504946-005

Units: µg/L
 Basis: NA

Analytical Method: 8260C
 Prep Method: EPA 5030C

Analyte Name	Sample Result	BAT-EW-6-150619MS Matrix Spike RQ1507088-05			BAT-EW-6-150619DMS Duplicate Matrix Spike RQ1507088-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloromethane	ND	57.1	50.0	114	58.0	50.0	116	55 - 160	2	30
Vinyl Chloride	0.44	55.0	50.0	109	55.0	50.0	109	60 - 157	<1	30
Chloroethane	ND	44.2	50.0	88	45.2	50.0	90	70 - 140	2	30
Bromomethane	ND	27.8	50.0	56	38.8	50.0	78	10 - 162	33 *	30
1,1-Dichloroethene	ND	49.0	50.0	98	50.2	50.0	100	72 - 125	2	30
Acetone	ND	50.1	50.0	100	52.2	50.0	104	29 - 151	4	30
Carbon Disulfide	ND	28.4	50.0	57	30.6	50.0	61	34 - 162	7	30
Methylene Chloride	ND	48.2	50.0	96	50.3	50.0	101	75 - 121	4	30
trans-1,2-Dichloroethene	0.46	51.5	50.0	102	52.1	50.0	103	77 - 125	1	30
1,1-Dichloroethane	0.39	49.7	50.0	99	50.7	50.0	101	74 - 132	2	30
cis-1,2-Dichloroethene	12	67.5	50.0	110	65.0	50.0	106	72 - 133	4	30
2-Butanone (MEK)	ND	57.6	50.0	115	53.6	50.0	107	46 - 141	7	30
Chloroform	ND	50.4	50.0	101	49.8	50.0	100	75 - 130	1	30
1,1,1-Trichloroethane	ND	48.6	50.0	97	48.6	50.0	97	74 - 127	<1	30
Carbon Tetrachloride	ND	42.2	50.0	84	44.3	50.0	89	71 - 135	5	30
Benzene	ND	52.6	50.0	105	51.9	50.0	104	76 - 129	1	30
1,2-Dichloroethane	ND	48.9	50.0	98	48.8	50.0	98	72 - 132	<1	30
Trichloroethene	0.25	53.2	50.0	106	53.5	50.0	106	62 - 142	<1	30
1,2-Dichloropropane	ND	52.0	50.0	104	51.0	50.0	102	79 - 124	2	30
Bromodichloromethane	ND	45.4	50.0	91	45.9	50.0	92	76 - 127	1	30
cis-1,3-Dichloropropene	ND	36.8	50.0	74	41.4	50.0	83	52 - 134	12	30
4-Methyl-2-pentanone (MIBK)	ND	56.0	50.0	112	56.0	50.0	112	60 - 141	<1	30
Toluene	ND	51.8	50.0	104	51.2	50.0	102	79 - 125	1	30
trans-1,3-Dichloropropene	ND	38.5	50.0	77	42.0	50.0	84	64 - 123	9	30
1,1,2-Trichloroethane	ND	53.7	50.0	107	54.4	50.0	109	82 - 115	1	30
Tetrachloroethene	ND	48.2	50.0	96	49.1	50.0	98	67 - 137	2	30
2-Hexanone	ND	51.7	50.0	103	51.0	50.0	102	56 - 132	1	30
Dibromochloromethane	ND	41.0	50.0	82	43.0	50.0	86	72 - 128	5	30

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

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Sample Result	BAT-EW-6-150619MS Matrix Spike RQ1507088-05			BAT-EW-6-150619DMS Duplicate Matrix Spike RQ1507088-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chlorobenzene	ND	49.3	50.0	99	49.7	50.0	99	76 - 125	<1	30
Ethylbenzene	ND	45.4	50.0	91	46.0	50.0	92	72 - 134	1	30
m,p-Xylenes	ND	98.7	100	99	99.1	100	99	68 - 138	<1	30
o-Xylene	ND	49.6	50.0	99	50.1	50.0	100	68 - 134	1	30
Styrene	ND	40.4	50.0	81	41.6	50.0	83	34 - 156	3	30
Bromoform	ND	34.8	50.0	70	36.5	50.0	73	58 - 133	5	30
1,1,2,2-Tetrachloroethane	ND	50.2	50.0	100	52.3	50.0	105	72 - 122	4	30

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

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

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

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Analyzed: 6/28/15

**Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS**

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 450948

**Lab Control Sample
 RQ1507088-03**

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	23.1	20.0	116	64 - 140
Vinyl Chloride	20.9	20.0	104	69 - 136
Chloroethane	16.0	20.0	80	71 - 128
Bromomethane	20.3	20.0	101	41 - 159
1,1-Dichloroethene	19.7	20.0	99	74 - 135
Acetone	17.0	20.0	85	51 - 146
Carbon Disulfide	20.8	20.0	104	63 - 141
Methylene Chloride	19.3	20.0	96	73 - 122
trans-1,2-Dichloroethene	20.1	20.0	101	78 - 124
1,1-Dichloroethane	19.4	20.0	97	76 - 128
cis-1,2-Dichloroethene	20.7	20.0	104	80 - 121
2-Butanone (MEK)	21.1	20.0	105	66 - 129
Chloroform	20.2	20.0	101	76 - 120
1,1,1-Trichloroethane	18.3	20.0	91	71 - 123
Carbon Tetrachloride	18.7	20.0	93	66 - 128
Benzene	20.6	20.0	103	76 - 118
1,2-Dichloroethane	18.6	20.0	93	72 - 130
Trichloroethene	20.0	20.0	100	76 - 123
1,2-Dichloropropane	19.7	20.0	98	80 - 119
Bromodichloromethane	18.9	20.0	94	79 - 122
cis-1,3-Dichloropropene	18.4	20.0	92	77 - 125
4-Methyl-2-pentanone (MIBK)	19.4	20.0	97	68 - 129
Toluene	19.5	20.0	98	77 - 120
trans-1,3-Dichloropropene	18.9	20.0	95	72 - 123
1,1,2-Trichloroethane	19.9	20.0	100	79 - 117
Tetrachloroethene	18.8	20.0	94	69 - 124
2-Hexanone	17.9	20.0	90	61 - 131
Dibromochloromethane	18.1	20.0	90	79 - 125
Chlorobenzene	18.7	20.0	94	80 - 121
Ethylbenzene	17.6	20.0	88	76 - 120
m,p-Xylenes	38.4	40.0	96	78 - 123
o-Xylene	19.1	20.0	96	77 - 131
Styrene	19.1	20.0	95	81 - 122

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.

QA/QC Report

Date Analyzed: 6/28/15

Analysis Lot: 450948

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.1	20.0	86	65 - 138
1,1,2,2-Tetrachloroethane	18.3	20.0	92	74 - 127

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Analyzed: 6/29/15

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 451047

Lab Control Sample
 RQ1507136-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	23.9	20.0	119	64 - 140
Vinyl Chloride	21.8	20.0	109	69 - 136
Chloroethane	17.8	20.0	89	71 - 128
Bromomethane	18.3	20.0	91	41 - 159
1,1-Dichloroethene	20.1	20.0	101	74 - 135
Acetone	16.7	20.0	84	51 - 146
Carbon Disulfide	20.0	20.0	100	63 - 141
Methylene Chloride	20.5	20.0	103	73 - 122
trans-1,2-Dichloroethene	20.8	20.0	104	78 - 124
1,1-Dichloroethane	20.7	20.0	103	76 - 128
cis-1,2-Dichloroethene	21.3	20.0	106	80 - 121
2-Butanone (MEK)	22.5	20.0	112	66 - 129
Chloroform	21.6	20.0	108	76 - 120
1,1,1-Trichloroethane	20.1	20.0	100	71 - 123
Carbon Tetrachloride	19.0	20.0	95	66 - 128
Benzene	20.9	20.0	104	76 - 118
1,2-Dichloroethane	19.5	20.0	98	72 - 130
Trichloroethene	20.9	20.0	105	76 - 123
1,2-Dichloropropane	20.7	20.0	103	80 - 119
Bromodichloromethane	19.3	20.0	96	79 - 122
cis-1,3-Dichloropropene	19.4	20.0	97	77 - 125
4-Methyl-2-pentanone (MIBK)	21.2	20.0	106	68 - 129
Toluene	20.6	20.0	103	77 - 120
trans-1,3-Dichloropropene	20.1	20.0	100	72 - 123
1,1,2-Trichloroethane	21.6	20.0	108	79 - 117
Tetrachloroethene	20.3	20.0	102	69 - 124
2-Hexanone	19.7	20.0	98	61 - 131
Dibromochloromethane	18.9	20.0	94	79 - 125
Chlorobenzene	19.9	20.0	99	80 - 121
Ethylbenzene	17.8	20.0	89	76 - 120
m,p-Xylenes	39.9	40.0	100	78 - 123
o-Xylene	20.0	20.0	100	77 - 131
Styrene	19.8	20.0	99	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/29/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 451047

Lab Control Sample
RQ1507136-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.4	20.0	87	65 - 138
1,1,2,2-Tetrachloroethane	19.4	20.0	97	74 - 127

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.

Printed 7/7/15 11:58

Form 3C

\\alprews001\starlims\AL\TMSReps\LabControlSample.rpt

SuperSet Reference: 00032
15-0000337389 rev 00



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

July 07, 2015

Analytical Report for Service Request No: R1504946

Ms. Cecelia Byers
CB&I Environmental & Infrastructure
2790 Mosside Boulevard
Monroeville, PA 15146

Laboratory Results for: Textron Wheatfield/148900.33.000000

Dear Ms. Byers:

Enclosed are the results of the sample(s) submitted to our laboratory on June 20, 2015. For your reference, these analyses have been assigned our service request number **R1504946**.

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: Lisa Schermerhorn

Page 1 of 385



SDG NARRATIVE

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

ALS Environmental

Client: CB&I
Service Request No.: R1504946
Project: Textron Wheatfield
Date Received: 6/20/15
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

Water samples were received for analysis at ALS Environmental on 6/20/15. The samples were received in good condition and consistent with the accompanying chain of custody form. All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications. The samples were stored in a refrigerator between 1°C and 6°C upon receipt at the laboratory.

Volatile Organics

Water samples were analyzed for a site specific list of Volatiles by method 5030C/8260C from SW-846.

All initial and continuing calibration criteria were met for all compounds.

All Tuning criteria were within QC limits.

BAT-EW-2-150619 was not received at a pH of less than 2 and was not analyzed within 7 days of collection.

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

Site specific QC was performed on BAT-EW-6-150619 as requested. All MS/MSD recoveries were acceptable. All RPD's were within limits except Bromomethane and has been flagged with an "*".

All Internal Standard (IS) Areas were within limits.

All surrogate standard recoveries were within limits.

The Method blank associated with these samples was free of contamination.

All samples were analyzed within recommended holding times.

ALS ASP/CLP Batching Form/Login Sheet

Client Proj #: 148900.33.000000	Batch Complete: Yes	Date Revised:
Submission: R1504946	Diskette Requested: No	Date Due: 7/6/15
Client: CB&I	Date: 6/23/15	Protocol: SW846
Client Rep: JJAEGER	Custody Seal: Present/Absent:	Shipping No.:
Project: Textron Wheatfield	Chain of Custody: Present/Absent:	SDG #: BAT-FIELDBLANK-150619

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1504946-001	BAT-FIELDBLANK-150619	Water	8260C	6/19/15	6/20/15			
R1504946-002	BAT-EW-2-150619	Water	8260C	6/19/15	6/20/15			
R1504946-003	BAT-EW-3-150619	Water	8260C	6/19/15	6/20/15			
R1504946-004	BAT-EW-5-150619	Water	8260C	6/19/15	6/20/15			
R1504946-005QC	BAT-EW-6-150619	Water	8260C	6/19/15	6/20/15			
R1504946-006	BAT-93-03(1)-150619	Water	8260C	6/19/15	6/20/15			
R1504946-007	Trip blank	Water	8260C	6/19/15	6/20/15			
R1504946-008	BAT-DUP-2-150619	Water	8260C	6/19/15	6/20/15			

00004

Folder Comments: in excel



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/Aroclors). 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 ($\geq 100\%$ 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.



Rochester Lab ID # for State Certifications¹

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

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



CHAINS OF CUSTODY

ALS Environmental - Rochester, NY
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

FedEx 8070 7344 0566
27017

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 TEXTRON		Project Number 148900.33 00000		ANALYSIS REQUESTED (Include Method Number and Container Preservative)													
Project Manager CECELIA BYERS		Report CC LISA SCHMERHORN		PRESERVATIVE 1													
Company/Address CB&I		Email CECELIA.BYERS@CB&I.COM		NUMBER OF CONTAINERS GC/MS VOA's GC/MS SVOA's GC VOA's PESTICIDES PCBs METALS, TOTAL METALS, DISSOLVED (List in comments below) Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetata 6. MeOH 7. NaHSO₄ 8. Other _____													
100 PENN CENTER BLVD. 2ND FLOOR																	
PITTSBURGH, PA 15235																	
Phone # 510-281-2034		Sampler's Signature KEVIN CROWIN		REMARKS/ ALTERNATE DESCRIPTION													
FOR OFFICE USE ONLY LAB ID		SAMPLING															
CLIENT SAMPLE ID	DATE	TIME	MATRIX	3													
BAT-FIELD BLANK-150619	6/19/15	0945	GW	3	X												
BAT-EW-2-150619		1035	GW	3	X												
BAT-EW-3-150619		1055	GW	3	X												
BAT-EW-5-150619		1125	GW	3	X												
BAT-EW-6-150619		1150	GW	3	X												
BAT-EW-6-150619 MS			GW	3	X												
BAT-EW-6-150619 MSB			GW	3	X												
BAT-EW-7-150619		1220	GW	3	X												
BAT-93-03(1)-150619																	
TRIP BLANK				3	X												
BAT-DUP-2-150619	6/19/15	-	GW	5	X												
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day STANDARD TAT REQUESTED REPORT DATE				REPORT REQUIREMENTS Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata Yes No				INVOICE INFORMATION PO # BILL TO:					
See QAPP ☐																	
STATE WHERE SAMPLES WERE COLLECTED NY																	
RELINQUISHED BY Kevin Crowin		RECEIVED BY Donnell Ward		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY			
Signature		Signature		Signature		Signature		Signature		Signature		Signature		Signature			
Printed Name KEVIN CROWIN		Printed Name ALB		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name			
Firm CB&I		Firm 6/20/15/1055		Firm		Firm		Firm		Firm		Firm		Firm			
Date/Time 6/19/15 1545		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time			

R1504946
CB&I Environmental & Infrastructure
Textron Wheatfield
5



Cooler Receipt and Preservation Check Form

R1504946

5

CB&I Environmental & Infrastructure
Texttron WheatfieldProject/Client CB&I Folder Number 4946Cooler received on 6/20/15 by: SWCOURIER: ALS UPS ~~FEDX~~ VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y ☒ N
2	Custody papers properly completed (ink, signed)?	☒ N
3	Did all bottles arrive in good condition (unbroken)?	☒ N
4	Circle: ~~Wet Ice~~ Dry Ice Gel packs present?	☒ N

5a	Perchlorate samples have required headspace?	Y N ☒ NA
5b	Did ~~VOA~~ vials, Alk, or Sulfide have sig* bubbles?	☒ N NA *
6	Where did the bottles originate?	ALSTROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set ☒ NA

8. Temperature Readings Date: 6/20/15 Time: 110 ID: IR#3 IR#3 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.3°</u>						
Correction Factor (°C)	<u>-1.6°</u>						
Corrected Temp (°C)	<u>1.7</u>						
Within 0-6°C?	☒ N	Y N	Y N	Y N	Y N	Y N	Y N

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

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

All samples held in storage location: Room by SW on 6/20/15 at 1110
5035 samples placed in storage location: _____ by _____ on _____ at _____PC Secondary Review: SW 6/23/15Cooler Breakdown: Date: 6/22/15 Time: 0950 by: MDS

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? ☒ YES ☐ NO
- Did all bottle labels and tags agree with custody papers? ☒ YES ☐ NO
- Were correct containers used for the tests indicated? ☒ YES ☐ NO
- 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 ₂ SO ₄								
<4	NaHSO ₄								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
	Na ₂ S ₂ O ₃	-	-						
	Zn Acetate	-	-						
	HCl	**	**	<u>4114670</u>	<u>5/16</u>				

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

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

Bottle lot numbers: 05-022-002

Other Comments:

* 3 vials for the Trip Blanks
 1 vial for BAT-93-0301-150619
 1 vial for BAT-EW-2-150618/150619
 1 vial for BAT-EW-5-150619

PC Secondary Review: SW 6/23/15

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

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1504946-001.01	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-001.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-001.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-002.01	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-002.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-002.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-003.01	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-003.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-003.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-004.01		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1504946-004.02	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/29/15	1424	In Lab / KRUEST	
		6/29/15	1431	R-001-S12 / BWOJTASIEWICZ	
R1504946-004.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.01		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.04		6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.05		6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.06	8260C	6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-005.07		6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.08		6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-005.09		6/22/15	0948	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-006.01					

ALS ENVIRONMENTAL

Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0945	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-006.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-006.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-007.01	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0946	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-007.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-007.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-007.04		6/22/15	0943	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-007.05		6/22/15	0943	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-007.06		6/22/15	0943	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
R1504946-008.01	8260C	6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	
		6/28/15	0946	In Lab / KRUEST	
		6/28/15	0949	R-001-S12 / KRUEST	
R1504946-008.02		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	

ALS ENVIRONMENTAL
Chain of Custody Report

Client: CB&I Environmental & Infrastructure
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946

Bottle ID	Tests	Date	Time	Sample Location / User	Disposed On
R1504946-008.03		6/22/15	0942	SMO / JSEWARD	
		6/22/15	0955	R-001 / JSEWARD	



VOLATILE ORGANICS QC SUMMARY

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005

Units: µg/L
Basis: NA

Analytical Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Sample Result	BAT-EW-6-150619MS Matrix Spike RQ1507088-05			BAT-EW-6-150619DMS Duplicate Matrix Spike RQ1507088-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chloromethane	ND	57.1	50.0	114	58.0	50.0	116	55 - 160	2	30
Vinyl Chloride	0.44	55.0	50.0	109	55.0	50.0	109	60 - 157	<1	30
Chloroethane	ND	44.2	50.0	88	45.2	50.0	90	70 - 140	2	30
Bromomethane	ND	27.8	50.0	56	38.8	50.0	78	10 - 162	33 *	30
1,1-Dichloroethene	ND	49.0	50.0	98	50.2	50.0	100	72 - 125	2	30
Acetone	ND	50.1	50.0	100	52.2	50.0	104	29 - 151	4	30
Carbon Disulfide	ND	28.4	50.0	57	30.6	50.0	61	34 - 162	7	30
Methylene Chloride	ND	48.2	50.0	96	50.3	50.0	101	75 - 121	4	30
trans-1,2-Dichloroethene	0.46	51.5	50.0	102	52.1	50.0	103	77 - 125	1	30
1,1-Dichloroethane	0.39	49.7	50.0	99	50.7	50.0	101	74 - 132	2	30
cis-1,2-Dichloroethene	12	67.5	50.0	110	65.0	50.0	106	72 - 133	4	30
2-Butanone (MEK)	ND	57.6	50.0	115	53.6	50.0	107	46 - 141	7	30
Chloroform	ND	50.4	50.0	101	49.8	50.0	100	75 - 130	1	30
1,1,1-Trichloroethane	ND	48.6	50.0	97	48.6	50.0	97	74 - 127	<1	30
Carbon Tetrachloride	ND	42.2	50.0	84	44.3	50.0	89	71 - 135	5	30
Benzene	ND	52.6	50.0	105	51.9	50.0	104	76 - 129	1	30
1,2-Dichloroethane	ND	48.9	50.0	98	48.8	50.0	98	72 - 132	<1	30
Trichloroethene	0.25	53.2	50.0	106	53.5	50.0	106	62 - 142	<1	30
1,2-Dichloropropane	ND	52.0	50.0	104	51.0	50.0	102	79 - 124	2	30
Bromodichloromethane	ND	45.4	50.0	91	45.9	50.0	92	76 - 127	1	30
cis-1,3-Dichloropropene	ND	36.8	50.0	74	41.4	50.0	83	52 - 134	12	30
4-Methyl-2-pentanone (MIBK)	ND	56.0	50.0	112	56.0	50.0	112	60 - 141	<1	30
Toluene	ND	51.8	50.0	104	51.2	50.0	102	79 - 125	1	30
trans-1,3-Dichloropropene	ND	38.5	50.0	77	42.0	50.0	84	64 - 123	9	30
1,1,2-Trichloroethane	ND	53.7	50.0	107	54.4	50.0	109	82 - 115	1	30
Tetrachloroethene	ND	48.2	50.0	96	49.1	50.0	98	67 - 137	2	30
2-Hexanone	ND	51.7	50.0	103	51.0	50.0	102	56 - 132	1	30
Dibromochloromethane	ND	41.0	50.0	82	43.0	50.0	86	72 - 128	5	30

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

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15

Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005
Analytical Method: 8260C
Prep Method: EPA 5030C

Units: µg/L
Basis: NA

Analyte Name	Sample Result	BAT-EW-6-150619MS Matrix Spike RQ1507088-05			BAT-EW-6-150619DMS Duplicate Matrix Spike RQ1507088-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Chlorobenzene	ND	49.3	50.0	99	49.7	50.0	99	76 - 125	<1	30
Ethylbenzene	ND	45.4	50.0	91	46.0	50.0	92	72 - 134	1	30
m,p-Xylenes	ND	98.7	100	99	99.1	100	99	68 - 138	<1	30
o-Xylene	ND	49.6	50.0	99	50.1	50.0	100	68 - 134	1	30
Styrene	ND	40.4	50.0	81	41.6	50.0	83	34 - 156	3	30
Bromoform	ND	34.8	50.0	70	36.5	50.0	73	58 - 133	5	30
1,1,2,2-Tetrachloroethane	ND	50.2	50.0	100	52.3	50.0	105	72 - 122	4	30

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/28/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 450948

Lab Control Sample RQ1507088-03				
Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	23.1	20.0	116	64 - 140
Vinyl Chloride	20.9	20.0	104	69 - 136
Chloroethane	16.0	20.0	80	71 - 128
Bromomethane	20.3	20.0	101	41 - 159
1,1-Dichloroethene	19.7	20.0	99	74 - 135
Acetone	17.0	20.0	85	51 - 146
Carbon Disulfide	20.8	20.0	104	63 - 141
Methylene Chloride	19.3	20.0	96	73 - 122
trans-1,2-Dichloroethene	20.1	20.0	101	78 - 124
1,1-Dichloroethane	19.4	20.0	97	76 - 128
cis-1,2-Dichloroethene	20.7	20.0	104	80 - 121
2-Butanone (MEK)	21.1	20.0	105	66 - 129
Chloroform	20.2	20.0	101	76 - 120
1,1,1-Trichloroethane	18.3	20.0	91	71 - 123
Carbon Tetrachloride	18.7	20.0	93	66 - 128
Benzene	20.6	20.0	103	76 - 118
1,2-Dichloroethane	18.6	20.0	93	72 - 130
Trichloroethene	20.0	20.0	100	76 - 123
1,2-Dichloropropane	19.7	20.0	98	80 - 119
Bromodichloromethane	18.9	20.0	94	79 - 122
cis-1,3-Dichloropropene	18.4	20.0	92	77 - 125
4-Methyl-2-pentanone (MIBK)	19.4	20.0	97	68 - 129
Toluene	19.5	20.0	98	77 - 120
trans-1,3-Dichloropropene	18.9	20.0	95	72 - 123
1,1,2-Trichloroethane	19.9	20.0	100	79 - 117
Tetrachloroethene	18.8	20.0	94	69 - 124
2-Hexanone	17.9	20.0	90	61 - 131
Dibromochloromethane	18.1	20.0	90	79 - 125
Chlorobenzene	18.7	20.0	94	80 - 121
Ethylbenzene	17.6	20.0	88	76 - 120
m,p-Xylenes	38.4	40.0	96	78 - 123
o-Xylene	19.1	20.0	96	77 - 131
Styrene	19.1	20.0	95	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/28/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA
Analysis Lot: 450948

Lab Control Sample
RQ1507088-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.1	20.0	86	65 - 138
1,1,2,2-Tetrachloroethane	18.3	20.0	92	74 - 127

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.

Printed 7/7/15 11:58

Form 3C

\\alprews001\starlims\VLIMSReps\LabControlSample.rpt

SuperSet Reference: 15-0000337389 Rev 00

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Analyzed: 6/29/15

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
 Basis: NA

Analysis Lot: 451047

Lab Control Sample
 RQ1507136-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	23.9	20.0	119	64 - 140
Vinyl Chloride	21.8	20.0	109	69 - 136
Chloroethane	17.8	20.0	89	71 - 128
Bromomethane	18.3	20.0	91	41 - 159
1,1-Dichloroethene	20.1	20.0	101	74 - 135
Acetone	16.7	20.0	84	51 - 146
Carbon Disulfide	20.0	20.0	100	63 - 141
Methylene Chloride	20.5	20.0	103	73 - 122
trans-1,2-Dichloroethene	20.8	20.0	104	78 - 124
1,1-Dichloroethane	20.7	20.0	103	76 - 128
cis-1,2-Dichloroethene	21.3	20.0	106	80 - 121
2-Butanone (MEK)	22.5	20.0	112	66 - 129
Chloroform	21.6	20.0	108	76 - 120
1,1,1-Trichloroethane	20.1	20.0	100	71 - 123
Carbon Tetrachloride	19.0	20.0	95	66 - 128
Benzene	20.9	20.0	104	76 - 118
1,2-Dichloroethane	19.5	20.0	98	72 - 130
Trichloroethene	20.9	20.0	105	76 - 123
1,2-Dichloropropane	20.7	20.0	103	80 - 119
Bromodichloromethane	19.3	20.0	96	79 - 122
cis-1,3-Dichloropropene	19.4	20.0	97	77 - 125
4-Methyl-2-pentanone (MIBK)	21.2	20.0	106	68 - 129
Toluene	20.6	20.0	103	77 - 120
trans-1,3-Dichloropropene	20.1	20.0	100	72 - 123
1,1,2-Trichloroethane	21.6	20.0	108	79 - 117
Tetrachloroethene	20.3	20.0	102	69 - 124
2-Hexanone	19.7	20.0	98	61 - 131
Dibromochloromethane	18.9	20.0	94	79 - 125
Chlorobenzene	19.9	20.0	99	80 - 121
Ethylbenzene	17.8	20.0	89	76 - 120
m,p-Xylenes	39.9	40.0	100	78 - 123
o-Xylene	20.0	20.0	100	77 - 131
Styrene	19.8	20.0	99	81 - 122

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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/29/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 451047

Lab Control Sample
RQ1507136-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	17.4	20.0	87	65 - 138
1,1,2,2-Tetrachloroethane	19.4	20.0	97	74 - 127

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

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

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Form 3C

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SuperSet Reference: 1510000319 389 75 00

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/28/15 11:25

**Method Blank Summary
Volatile Organic Compounds by GC/MS**

Sample Name: Method Blank **Instrument ID:** R-MS-12
Lab Code: RQ1507088-04 **File ID:** I:\ACQUDATA\MSVOA12\DATA\062815\MM4320.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	RQ1507088-03	I:\ACQUDATA\MSVOA12\DATA\062815\MM4318.D\	6/28/15 10:24
Trip blank	R1504946-007	I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\	6/28/15 15:30
BAT-FIELDBLANK-150619	R1504946-001	I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\	6/28/15 16:01
BAT-EW-2-150619	R1504946-002	I:\ACQUDATA\MSVOA12\DATA\062815\MM4330.D\	6/28/15 16:32
BAT-EW-6-150619	R1504946-005	I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\	6/28/15 17:02
BAT-93-03(1)-150619	R1504946-006	I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\	6/28/15 17:33
BAT-EW-3-150619	R1504946-003	I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\	6/28/15 18:04
BAT-DUP-2-150619	R1504946-008	I:\ACQUDATA\MSVOA12\DATA\062815\MM4335.D\	6/28/15 19:05
BAT-EW-6-150619MS	RQ1507088-05	I:\ACQUDATA\MSVOA12\DATA\062815\MM4336.D\	6/28/15 19:36
BAT-EW-6-150619DMS	RQ1507088-06	I:\ACQUDATA\MSVOA12\DATA\062815\MM4337.D\	6/28/15 20:07

ALS Group USA, Corp. dba ALS Environmental**Analytical Report**

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Analyzed: 6/29/15 12:35

Method Blank Summary
Volatile Organic Compounds by GC/MS

Sample Name: Method Blank
Lab Code: RQ1507136-04
Analytical Method: 8260C

Instrument ID: R-MS-12
File ID: I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	RQ1507136-03	I:\ACQUDATA\MSVOA12\DATA\062915\MM4345.D\	6/29/15 11:03
BAT-EW-5-150619	R1504946-004	I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\	6/29/15 18:42

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 06/04/15 11:38

Tune Summary
Volatile Organic Compounds by GC/MS

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

Analytical Method: 8260C
Analysis Lot:

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

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

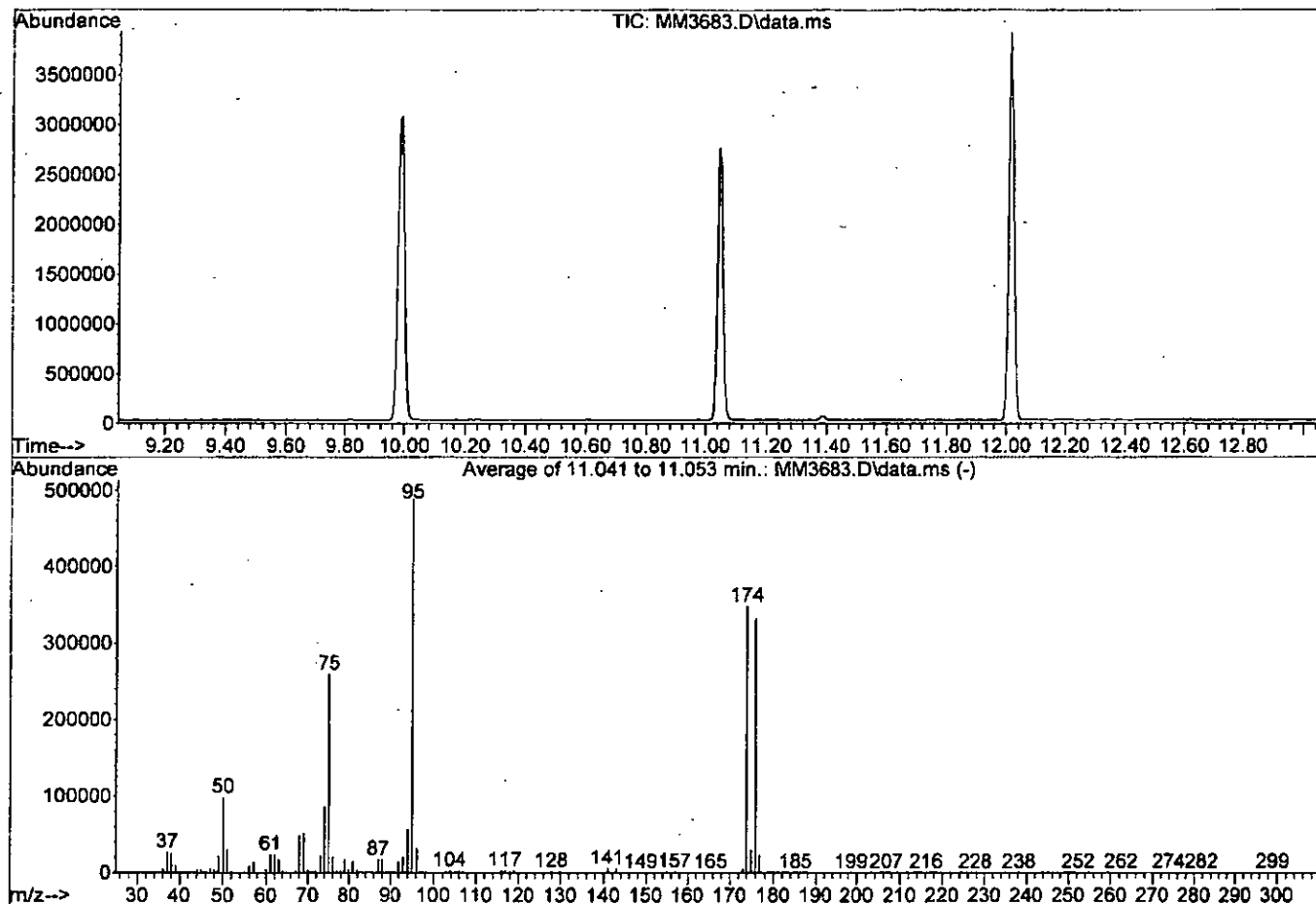
Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3683.D
Acq On : 4 Jun 2015 11:38 am
Operator : K.Ruest
Sample : TUNE
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

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

12/6/15



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

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/28/15 09:15

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\062815\MM4316.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 450948

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	18.60	90968	Pass
75	95	30	60	49.55	242325	Pass
95	95	100	100	100.00	489073	Pass
96	95	5	9	6.95	34003	Pass
173	174	0	2	1.59	6291	Pass
174	95	50	120	81.13	396800	Pass
175	174	5	9	7.66	30397	Pass
176	174	95	101	96.98	384832	Pass
177	176	5	9	6.36	24483	Pass

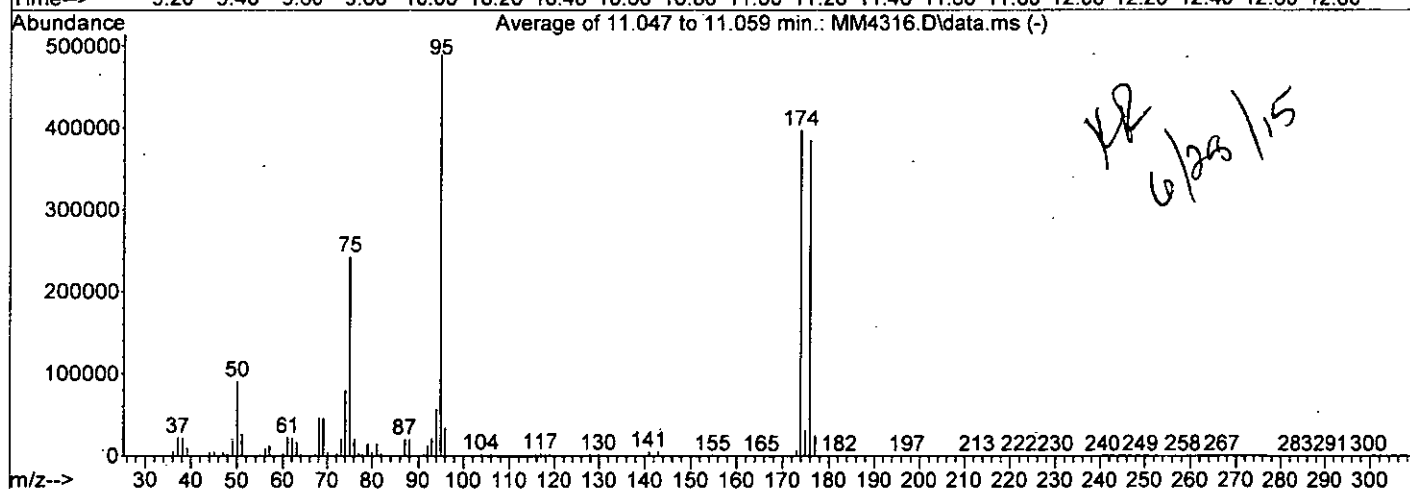
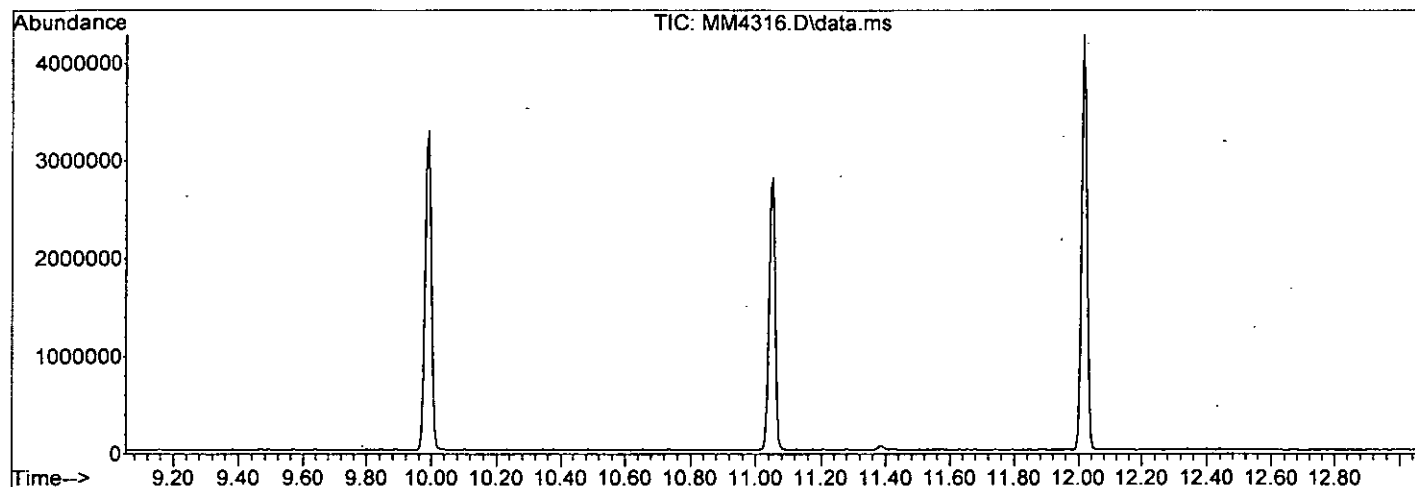
Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1507088-02	I:\ACQUDATA\MSVOA12\DATA\062815\MM4317.D\	6/28/15 09:54	
Lab Control Sample	RQ1507088-03	I:\ACQUDATA\MSVOA12\DATA\062815\MM4318.D\	6/28/15 10:24	
Method Blank	RQ1507088-04	I:\ACQUDATA\MSVOA12\DATA\062815\MM4320.D\	6/28/15 11:25	
Trip blank	R1504946-007	I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\	6/28/15 15:30	
BAT-FIELDBLANK-150619	R1504946-001	I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\	6/28/15 16:01	
BAT-EW-2-150619	R1504946-002	I:\ACQUDATA\MSVOA12\DATA\062815\MM4330.D\	6/28/15 16:32	
BAT-EW-6-150619	R1504946-005	I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\	6/28/15 17:02	
BAT-93-03(1)-150619	R1504946-006	I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\	6/28/15 17:33	
BAT-EW-3-150619	R1504946-003	I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\	6/28/15 18:04	
BAT-DUP-2-150619	R1504946-008	I:\ACQUDATA\MSVOA12\DATA\062815\MM4335.D\	6/28/15 19:05	
BAT-EW-6-150619MS	RQ1507088-05	I:\ACQUDATA\MSVOA12\DATA\062815\MM4336.D\	6/28/15 19:36	
BAT-EW-6-150619DMS	RQ1507088-06	I:\ACQUDATA\MSVOA12\DATA\062815\MM4337.D\	6/28/15 20:07	

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4316.D
 Acq On : 28 Jun 2015 9:15 am
 Operator : K.Ruest
 Sample : TUNE *RQ1507088-01*
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Jun 05 14:19:46 2015



AutoFind: Scans 1632, 1633, 1634; Background Corrected with Scan 1626

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	18.6	90968	PASS
75	95	30	60	49.5	242325	PASS
95	95	100	100	100.0	489073	PASS
96	95	5	9	7.0	34003	PASS
173	174	0.00	2	1.6	6291	PASS
174	95	50	120	81.1	396800	PASS
175	174	5	9	7.7	30397	PASS
176	174	95	101	97.0	384832	PASS
177	176	5	9	6.4	24483	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/29/15 10:02

Tune Summary
Volatile Organic Compounds by GC/MS

File ID: I:\ACQUDATA\msvoa12\Data\062915\MM4343.D\
Instrument ID: R-MS-12

Analytical Method: 8260C
Analysis Lot: 451047

Target Mass	Relative to Mass	Lower Limit%	Upper Limit%	Relative Abundance %	Raw Abundance	Result Pass/Fail
50	95	15	40	17.67	83907	Pass
75	95	30	60	48.61	230891	Pass
95	95	100	100	100.00	474962	Pass
96	95	5	9	6.41	30426	Pass
173	174	0	2	1.46	5529	Pass
174	95	50	120	79.47	377451	Pass
175	174	5	9	7.57	28558	Pass
176	174	95	101	99.17	374312	Pass
177	176	5	9	5.87	21977	Pass

Sample Name	Lab Code	File ID	Date Analyzed	Q
Continuing Calibration Verification	RQ1507136-02	I:\ACQUDATA\MSVOA12\DATA\062915\MM4344.D\	6/29/15 10:32	
Lab Control Sample	RQ1507136-03	I:\ACQUDATA\MSVOA12\DATA\062915\MM4345.D\	6/29/15 11:03	
Method Blank	RQ1507136-04	I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\	6/29/15 12:35	
BAT-EW-5-150619	R1504946-004	I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\	6/29/15 18:42	

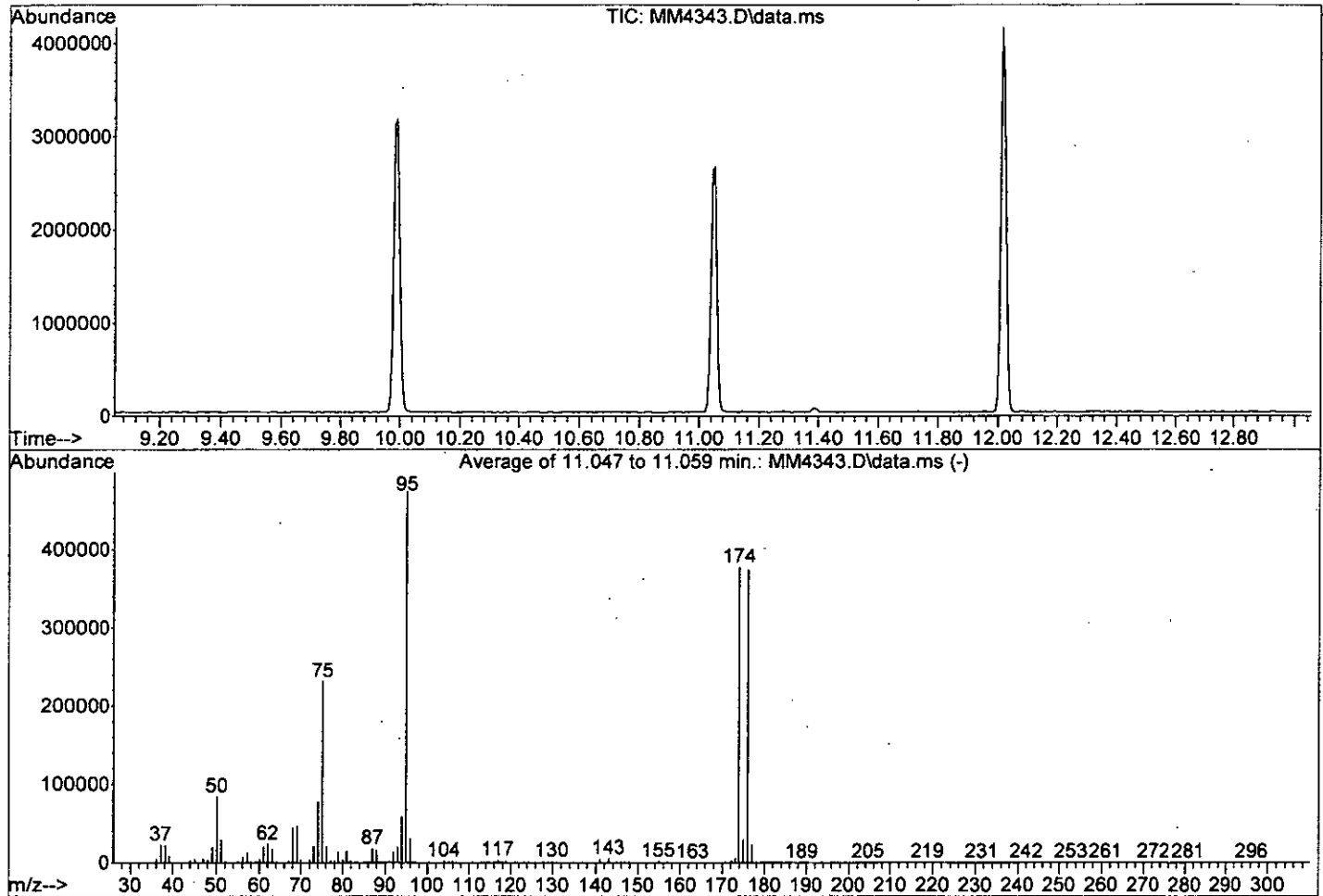
Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4343.D
 Acq On : 29 Jun 2015 10:02 am
 Operator : K.Ruest
 Sample : TUNE *201507136-01*
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Jun 05 14:19:46 2015

126/29/15



AutoFind: Scans 1632, 1633, 1634; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	83907	PASS
75	95	30	60	48.6	230891	PASS
95	95	100	100	100.0	474962	PASS
96	95	5	9	6.4	30426	PASS
173	174	0.00	2	1.5	5529	PASS
174	95	50	120	79.5	377451	PASS
175	174	5	9	7.6	28558	PASS
176	174	95	101	99.2	374312	PASS
177	176	5	9	5.9	21977	PASS

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/28/15 09:54

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

File ID: I:\ACQUDATA\MSVOA12\DATA\062815\MM4317.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507088-02
Analysis Lot: 450948
Signal ID:

	1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
Results ==>	940,332	12.02	1,611,080	6.77	1,583,751	9.99
Upper Limit ==>	1,880,664	12.52	3,222,160	7.27	3,167,502	10.49
Lower Limit ==>	470,166	11.52	805,540	6.27	791,876	9.49
ICAL Result ==>	811,080	12.02	1,567,087	6.77	1,461,862	9.99

Associated Analyses

Lab Control Sample	RQ1507088-03	883,423	12.02	1,640,666	6.77	1,574,115	9.99
Method Blank	RQ1507088-04	796,655	12.02	1,514,274	6.77	1,488,975	9.99
Trip blank	R1504946-007	748,980	12.02	1,475,728	6.77	1,424,141	9.99
BAT-FIELDBLANK-150619	R1504946-001	763,130	12.02	1,451,007	6.77	1,392,776	9.99
BAT-EW-2-150619	R1504946-002	748,192	12.02	1,472,099	6.77	1,417,471	9.99
BAT-EW-6-150619	R1504946-005	747,072	12.02	1,439,933	6.77	1,417,094	9.99
BAT-93-03(1)-150619	R1504946-006	775,367	12.02	1,442,263	6.77	1,416,331	9.99
BAT-EW-3-150619	R1504946-003	773,653	12.02	1,462,584	6.77	1,414,033	9.99
BAT-DUP-2-150619	R1504946-008	750,556	12.02	1,450,729	6.77	1,402,774	9.99
BAT-EW-6-150619MS	RQ1507088-05	885,696	12.02	1,526,381	6.77	1,481,944	9.99
BAT-EW-6-150619DMS	RQ1507088-06	900,723	12.02	1,580,552	6.77	1,530,784	9.99

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/28/15 09:54

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

File ID: I:\ACQUDATA\MSVOA12\DATA\062815\MM4317.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507088-02
Analysis Lot: 450948
Signal ID:

	Pentafluorobenzene	
	Area	RT
Results ==>	961,774	5.74
Upper Limit ==>	1,923,548	6.24
Lower Limit ==>	480,887	5.24
ICAL Result ==>	943,892	5.74

Associated Analyses

Lab Control Sample	RQ1507088-03	981,592	5.74
Method Blank	RQ1507088-04	896,382	5.74
Trip blank	R1504946-007	859,988	5.74
BAT-FIELDBLANK-150619	R1504946-001	849,817	5.74
BAT-EW-2-150619	R1504946-002	858,153	5.74
BAT-EW-6-150619	R1504946-005	855,145	5.74
BAT-93-03(1)-150619	R1504946-006	857,648	5.74
BAT-EW-3-150619	R1504946-003	845,460	5.74
BAT-DUP-2-150619	R1504946-008	863,254	5.74
BAT-EW-6-150619MS	RQ1507088-05	924,684	5.74
BAT-EW-6-150619DMS	RQ1507088-06	962,371	5.74

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/29/15 10:32

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

File ID: I:\ACQUDATA\MSVOA12\DATA\062915\MM4344.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507136-02
Analysis Lot: 451047
Signal ID:

		1,4-Dichlorobenzene-d4		1,4-Difluorobenzene		Chlorobenzene-d5	
		Area	RT	Area	RT	Area	RT
Results ==>		916,293	12.02	1,580,808	6.77	1,569,057	9.99
Upper Limit ==>		1,832,586	12.52	3,161,616	7.27	3,138,114	10.49
Lower Limit ==>		458,147	11.52	790,404	6.27	784,529	9.49
ICAL Result ==>		811,080	12.02	1,567,087	6.77	1,461,862	9.99
Associated Analyses							
Lab Control Sample	RQ1507136-03	886,182	12.02	1,550,773	6.77	1,521,844	9.99
Method Blank	RQ1507136-04	781,942	12.02	1,439,526	6.77	1,420,025	9.99
BAT-EW-5-150619	R1504946-004	735,648	12.02	1,442,005	6.77	1,402,489	9.99

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

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000

Service Request: R1504946
Date Analyzed: 6/29/15 10:32

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

File ID: I:\ACQUDATA\MSVOA12\DATA\062915\MM4344.D\
Instrument ID: R-MS-12
Analytical Method: 8260C

Lab Code: RQ1507136-02
Analysis Lot: 451047
Signal ID:

Pentafluorobenzene			
	<u>Area</u>	<u>RT</u>	
Results ==>	944,811	5.74	
Upper Limit ==>	1,889,622	6.24	
Lower Limit ==>	472,406	5.24	
ICAL Result ==>	943,892	5.74	

Associated Analyses

Lab Control Sample	RQ1507136-03	926,910	5.74
Method Blank	RQ1507136-04	856,120	5.74
BAT-EW-5-150619	R1504946-004	834,865	5.74

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



VOLATILE ORGANICS SAMPLE DATA

ALS Environmental - Rochester, NY
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Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 0945
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 16:01

Sample Name: BAT-FIELDBLANK-150619
 Lab Code: R1504946-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	1.0	U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 0945
Date Received: 6/20/15
Date Analyzed: 6/28/15 16:01

Sample Name: BAT-FIELDBLANK-150619
Lab Code: R1504946-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4329.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	111	85-122	6/28/15 16:01			
Toluene-d8	107	87-121	6/28/15 16:01			
Dibromofluoromethane	105	89-119	6/28/15 16:01			

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4329.D

Acq On : 28 Jun 2015 4:01 pm

Operator : K.Ruest

Sample : R1504946-001|1.0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 28 16:17:15 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	849817	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1451007	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1392776	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	763130	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibromomethane	5.597	113	410502	52.28	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	104.56%
48) surr1, 1,2-dichloroetha...	6.103	65	458187	54.63	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	109.26%
65) SURR3, Toluene-d8	8.529	98	1841293	53.69	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.38%
70) SURR2, BFB	11.047	95	721634	55.38	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	110.76%
Target Compounds						
12) Acrolein	2.335	56	445	0.73	ppb	73
15) Acetone	2.512	43	391	0.33	ppb	69
16) 2-Propanol	2.573	45	280	1.18	ppb	63
17) Iodomethane	2.579	142	243	1.26	ppb	78
19) Acetonitrile	2.737	40	1148	7.51	ppb	1
23) TBA	3.085	59	648	1.54	ppb	33
35) 2-Butanone	4.780	43	1372	0.88	ppb	55
36) Propionitrile	4.767	54	256	0.54	ppb	64
39) Tetrahydrofuran	5.267	42	337	0.32	ppb	88
53) 1-Butanol	7.084	56	463	3.82	ppb	95
58) 1,4-Dioxane	7.572	88	477	8.63	ppb	66
61) 2-Nitropropane	8.011	41	289	0.23	ppb	1
90) Cyclohexanone	11.010	55	320	1.52	ppb	79
91) trans-1,4-Dichloro-2-B...	11.199	53	418	0.22	ppb	26
111) 1,2-Dibromo-3-chloropr...	12.949	157	421	0.32	ppb	54

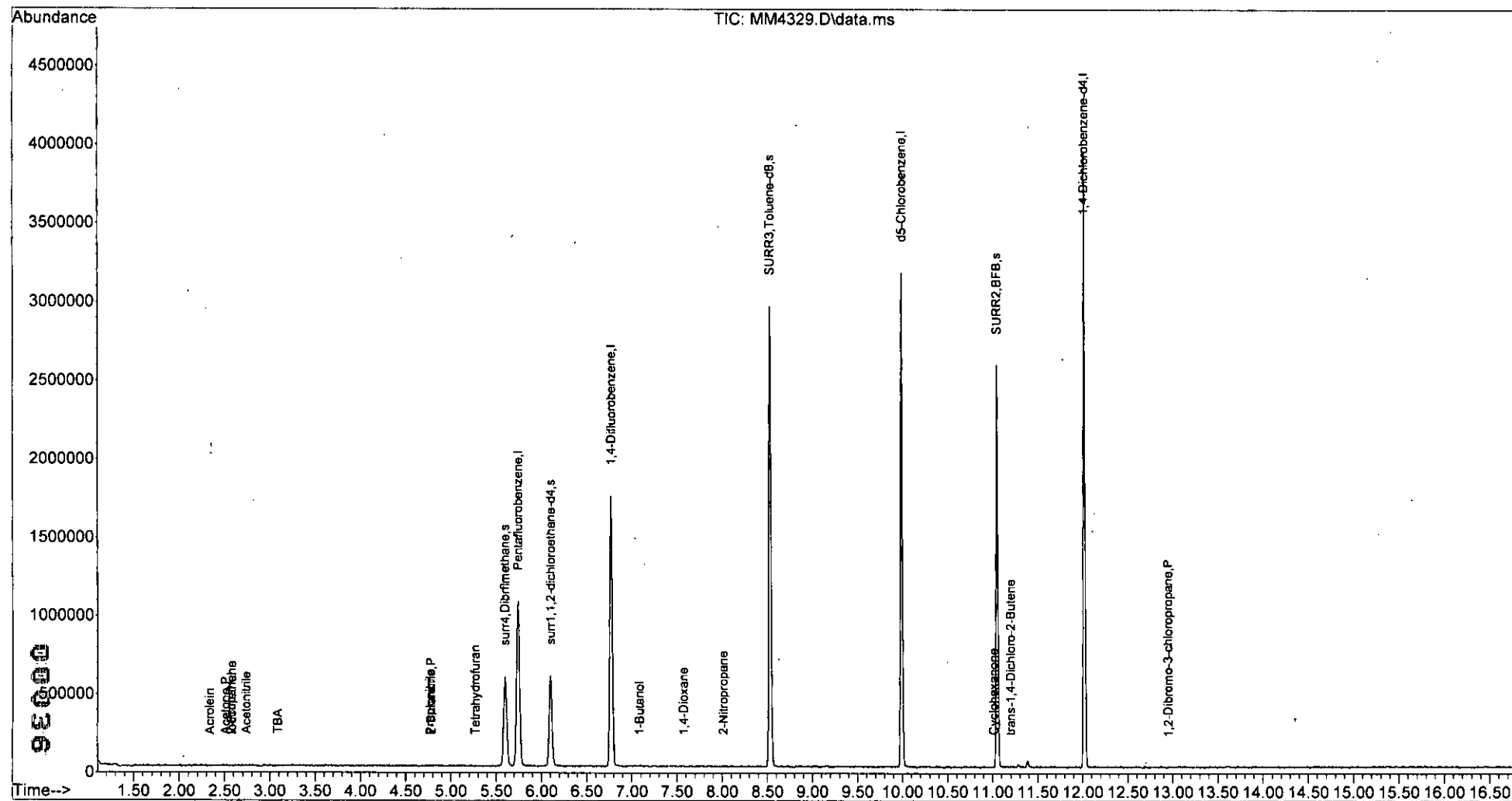
(#)=qualifier out of range (m)=manual integration (+)=signals summed

KR
6/29/15

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\
Data File : MM4329.D
Acq On : 28 Jun 2015 4:01 pm
Operator : K.Ruest
Sample : R1504946-001|1.0
Misc : CB&I 13429 T4
ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 16:17:15 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1035
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 16:32

Sample Name: BAT-EW-2-150619
 Lab Code: R1504946-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQU\DATA\MSVOA12\DATA\062815\MM4330.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	2.3 J	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.2	1.0	0.33	
75-34-3	1,1-Dichloroethane	4.0	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	24	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.2	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	3.1	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	5.1	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1035
Date Received: 6/20/15
Date Analyzed: 6/28/15 16:32

Sample Name: BAT-EW-2-150619
Lab Code: R1504946-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4330.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	107	85-122	6/28/15 16:32			
Toluene-d8	107	87-121	6/28/15 16:32			
Dibromofluoromethane	107	89-119	6/28/15 16:32			

Data Path : I:\ACQUDATA\msvoal2\Data\062815\
 Data File : MM4330.D
 Acq On : 28 Jun 2015 4:32 pm
 Operator : K.Ruest
 Sample : R1504946-002|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 16:03:14 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	858153	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1472099	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1417471	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	748192	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	424729	53.32	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.64%			
48) surr1, 1,2-dichloroetha...	6.103	65	464090	54.54	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 109.08%			
65) SURR3, Toluene-d8	8.535	98	1859478	53.45	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 106.90%			
70) SURR2, BFB	11.047	95	709148	53.64	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.28%			
Target Compounds						
4) Vinyl Chloride	1.433	62	2103	0.23	ppb	77
7) Freon 21	1.927	67	54894m	3.68	ppb	
8) Trichlorofluoromethane	1.975	101	13013	0.97	ppb	94
10) Freon 123a	2.237	67	25130	2.64	ppb #	72
14) Freon 113	2.439	101	35964	5.76	ppb #	72
15) Acetone	2.487	43	2771	2.30	ppb	83
26) trans-1,2-Dichloroethene	3.243	96	8466	1.20	ppb #	79
28) 1,1-Dicethane	3.798	63	46202	3.97	ppb	86
34) cis-1,2-Dichloroethene	4.725	96	180009	23.95	ppb #	79
40) Chloroform	5.328	83	14289	1.16	ppb #	63
41) 1,1,1-Trichloroethane	5.609	97	36517m	3.09	ppb	
54) Trichloroethene	7.084	130	40144	5.10	ppb	86

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

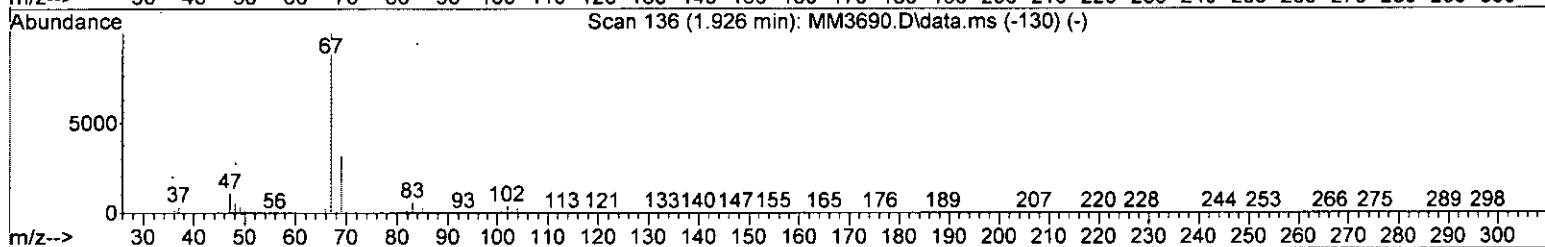
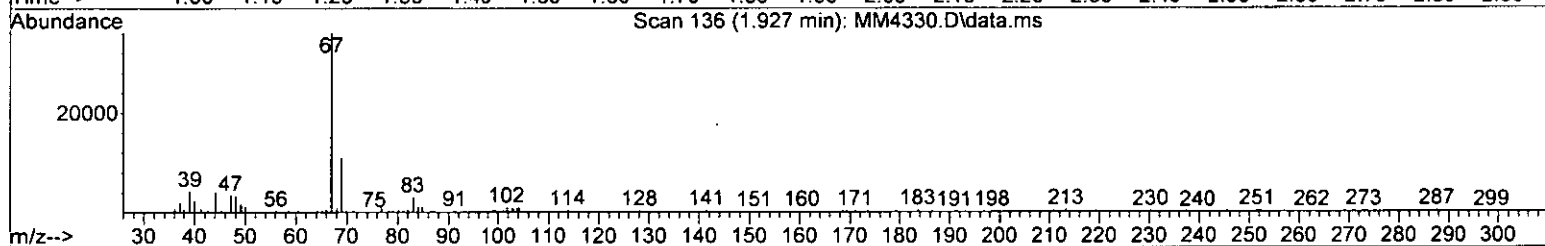
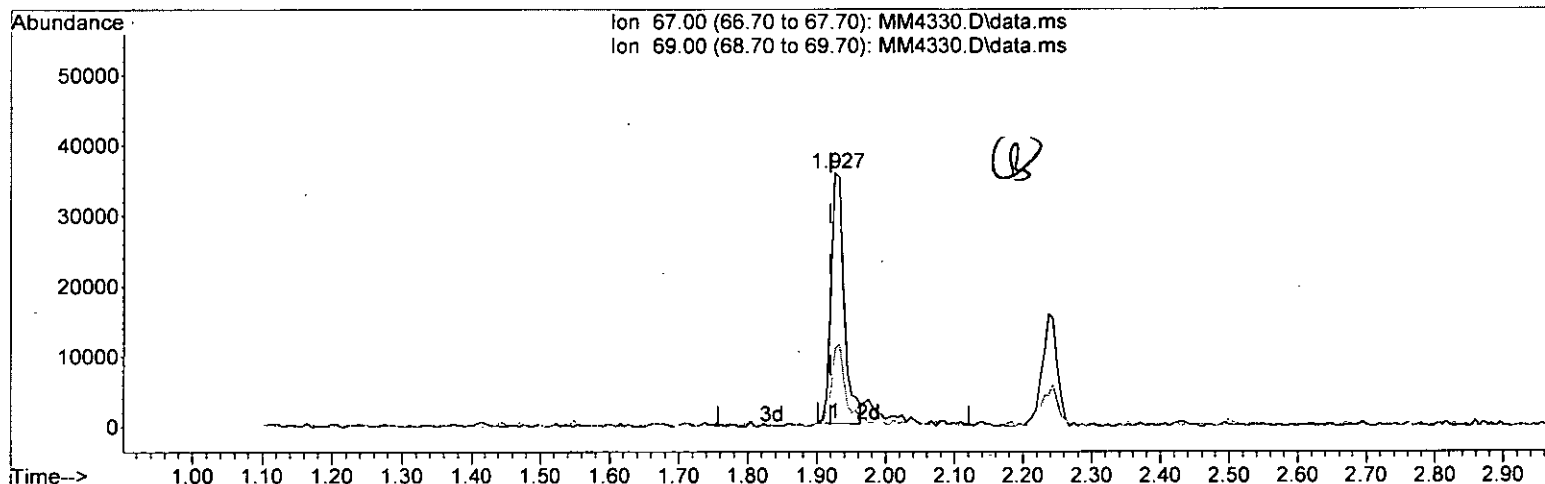
YR
6/29/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4330.D
 Acq On : 28 Jun 2015 4:32 pm
 Operator : K.Ruest
 Sample : R1504946-002|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 16:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4330.D\data.ms

(7) Freon 21

1.927min (+0.006) 3.21 ppb

response 47877

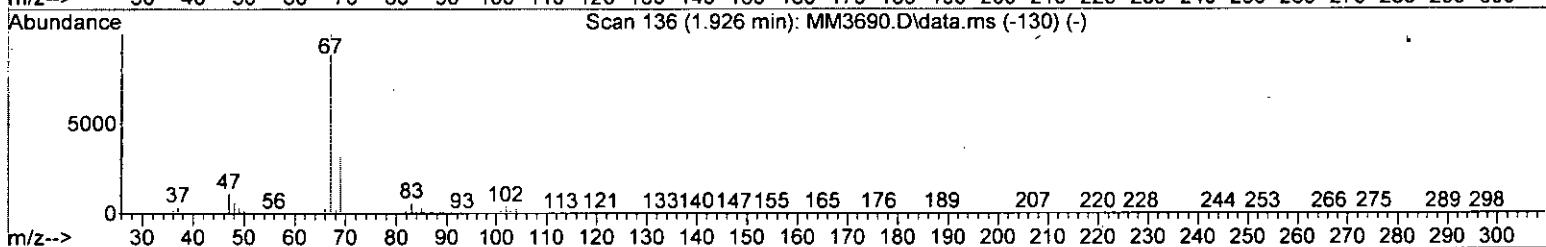
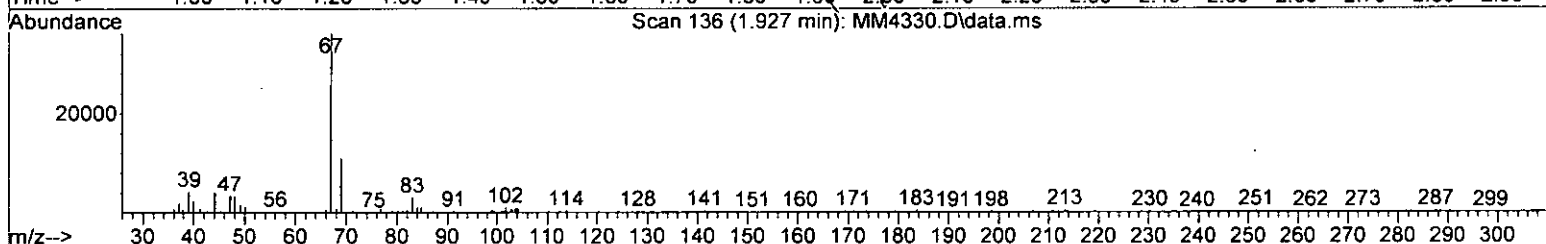
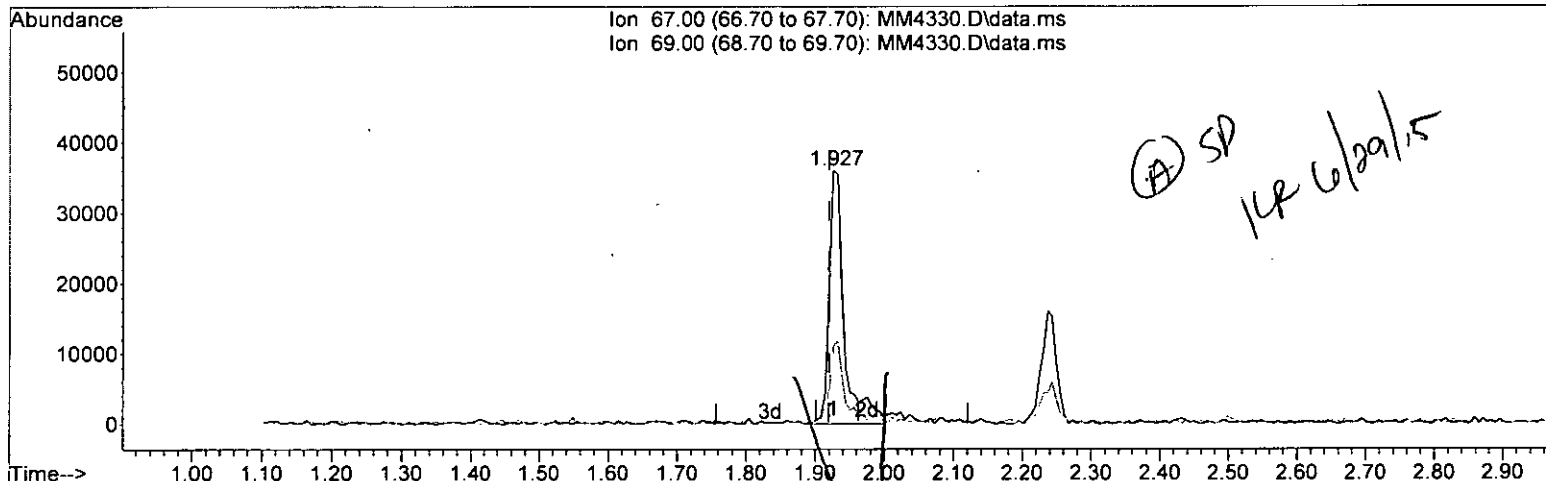
Ion	Exp%	Act%
67.00	100	100
69.00	31.90	30.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4330.D
 Acq On : 28 Jun 2015 4:32 pm
 Operator : K.Ruest
 Sample : R1504946-002|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 16:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4330.D\data.ms

(7) Freon 21

1.927min (+0.006) 3.68 ppb m

response 54894

Ion	Exp%	Act%
67.00	100	100
69.00	31.90	30.42
0.00	0.00	0.00
0.00	0.00	0.00

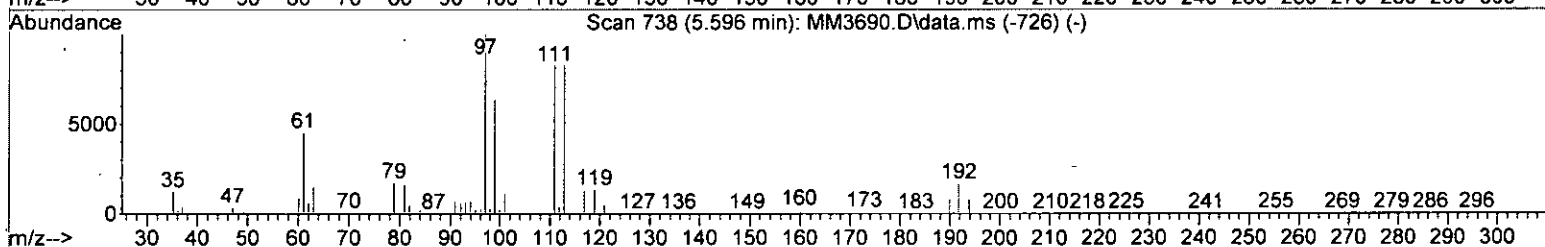
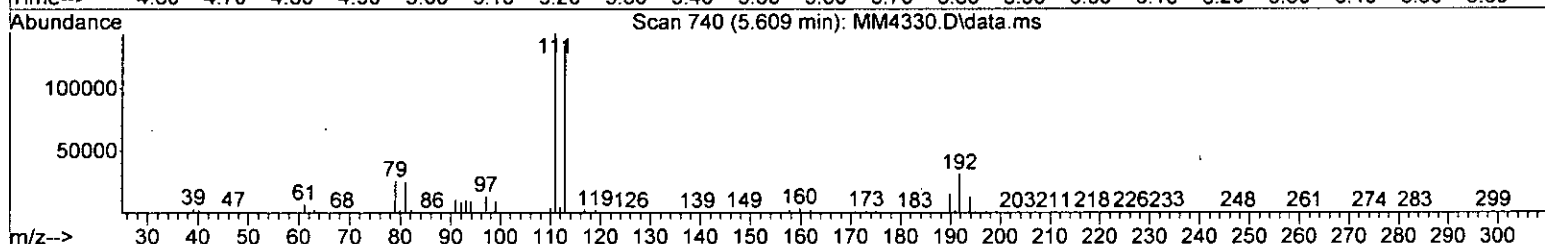
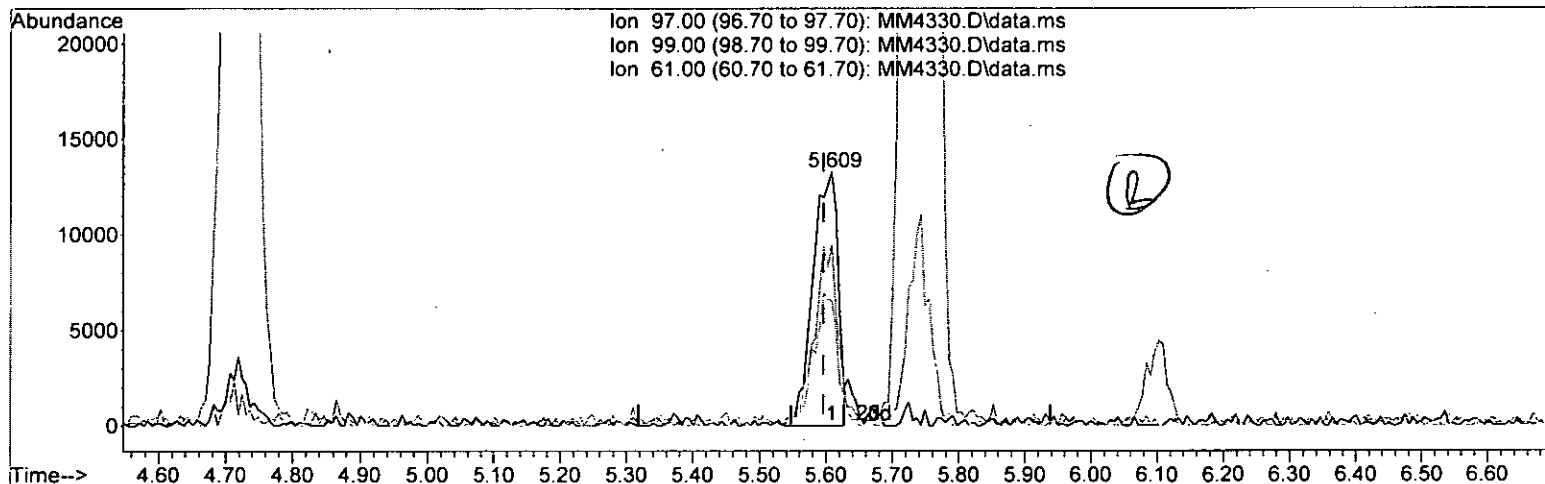
Wm
Ch.

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4330.D
 Acq On : 28 Jun 2015 4:32 pm
 Operator : K.Ruest
 Sample : R1504946-002|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 16:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4330.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.609min (+0.012) 2.91 ppb

response 34352

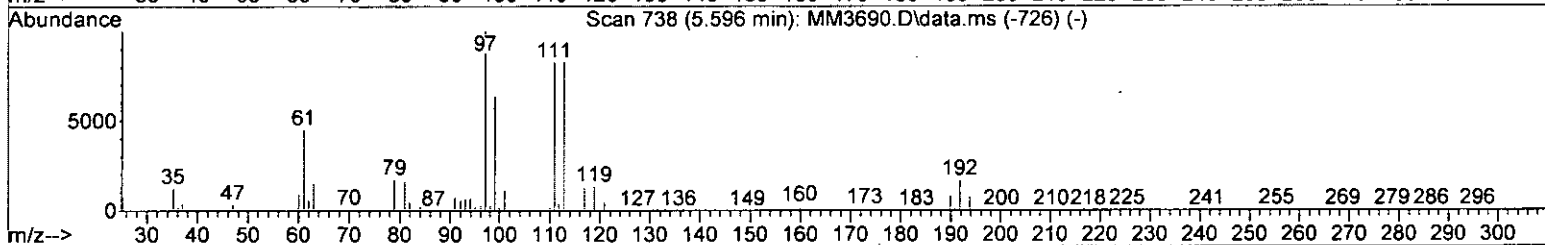
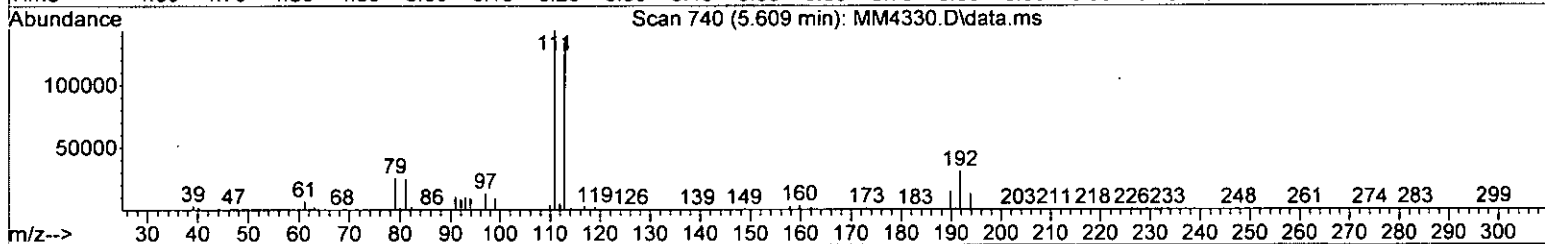
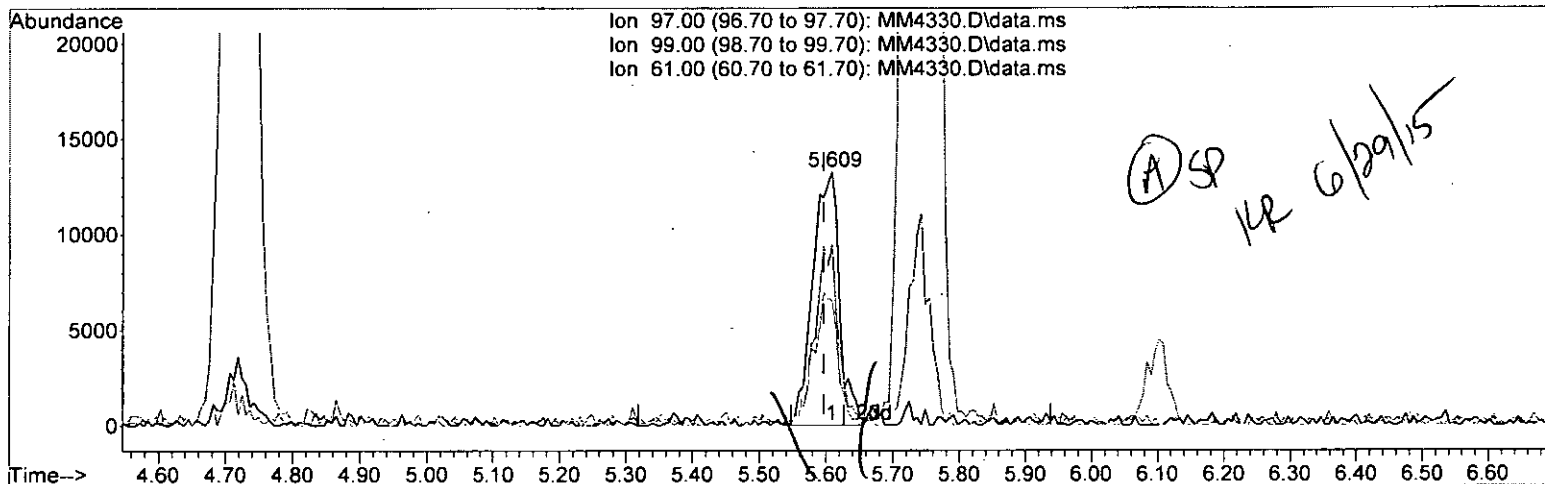
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	71.20
61.00	45.30	49.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4330.D
 Acq On : 28 Jun 2015 4:32 pm
 Operator : K.Ruest
 Sample : R1504946-002|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 16:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4330.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.609min (+0.012) 3.09 ppb m

response 36517

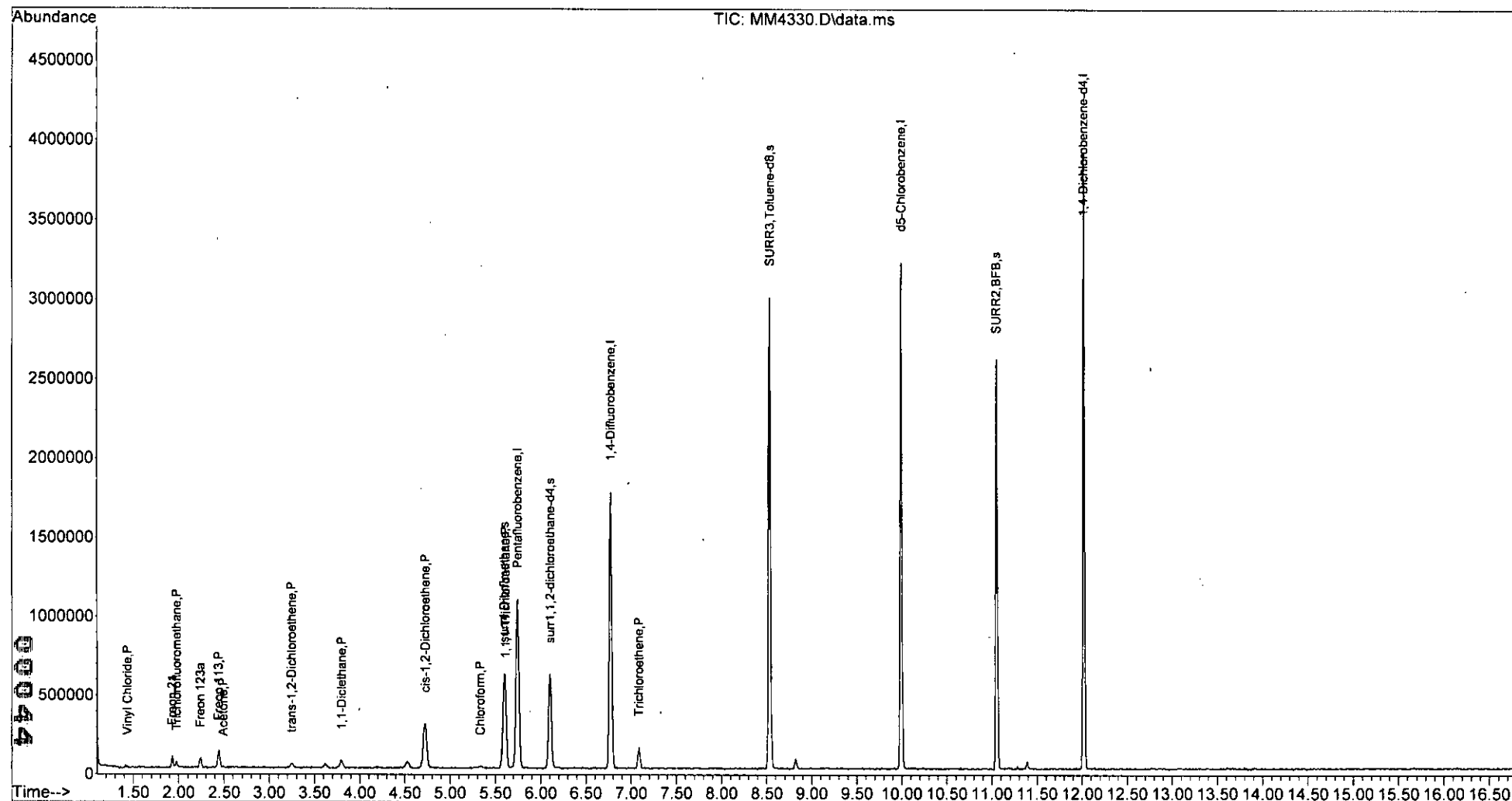
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	71.20
61.00	45.30	49.31
0.00	0.00	0.00

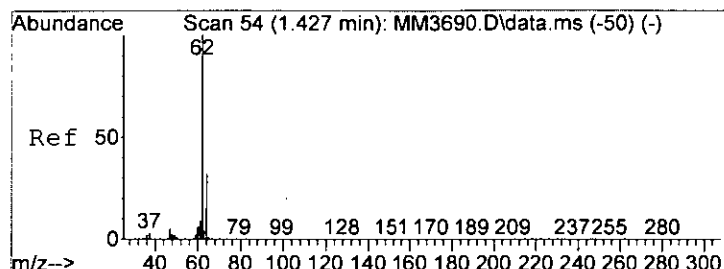
5/1/1

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4330.D
Acq On : 28 Jun 2015 4:32 pm
Operator : K.Ruest
Sample : R1504946-002|1.0
Misc : CB&I 13429 T4
ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

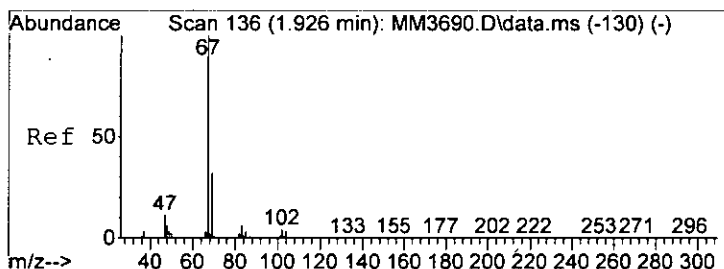
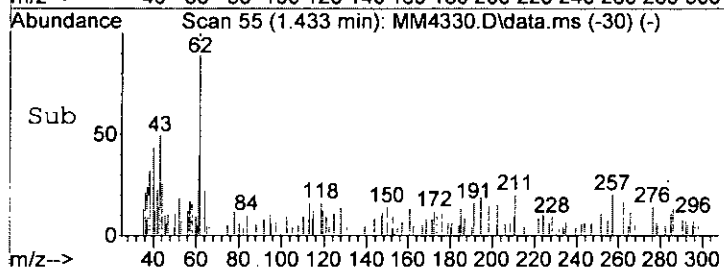
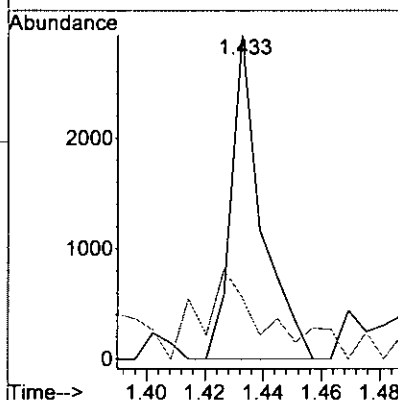
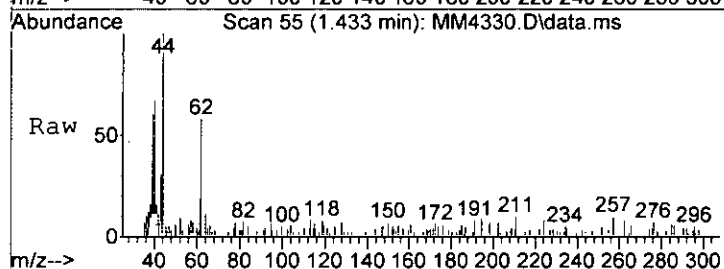
Quant Time: Jun 29 16:03:14 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





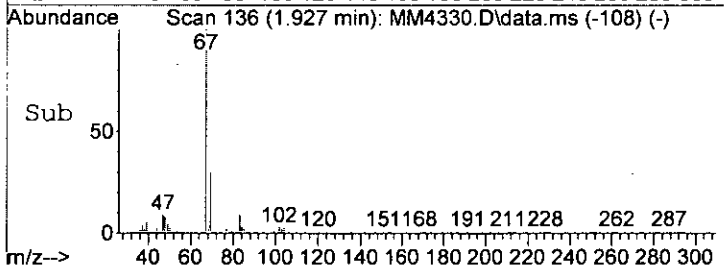
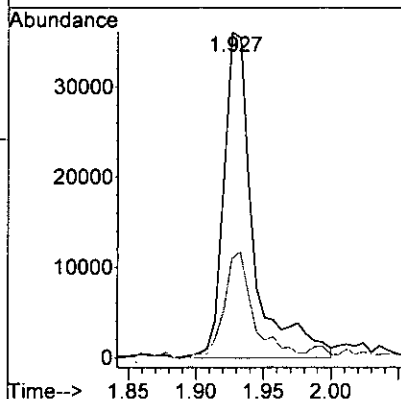
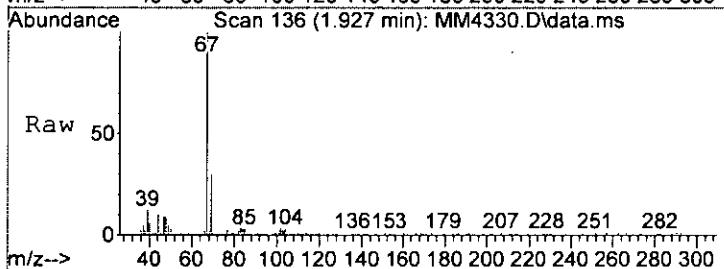
#4
 Vinyl Chloride
 Concen: 0.23 ppb
 RT: 1.433 min Scan# 55
 Delta R.T. 0.006 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

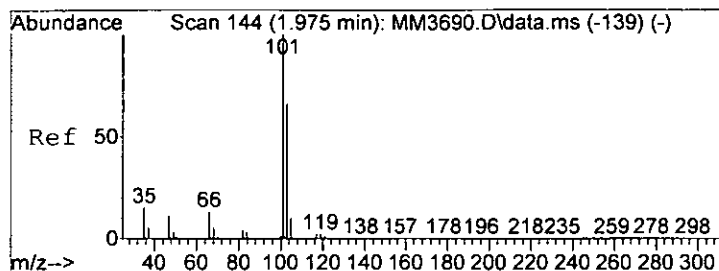
Tgt Ion: 62 Resp: 2103
 Ion Ratio Lower Upper
 62 100
 64 19.0 11.5 51.5



#7
 Freon 21
 Concen: 3.68 ppb m
 RT: 1.927 min Scan# 136
 Delta R.T. 0.006 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

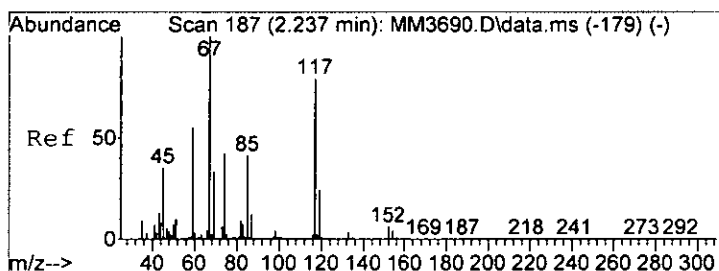
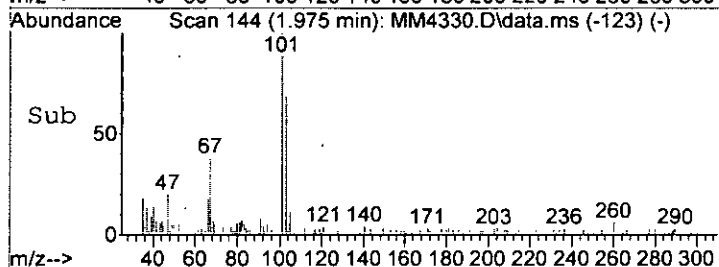
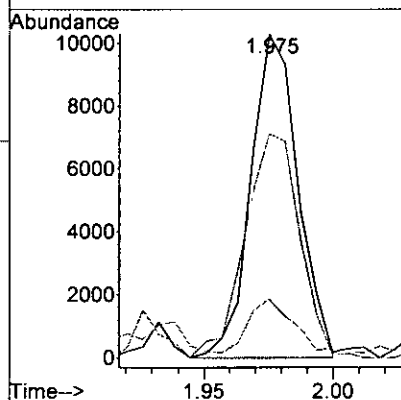
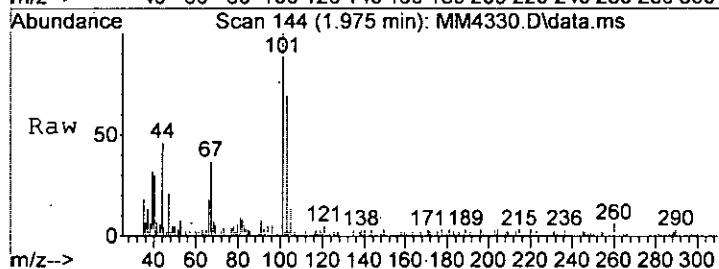
Tgt Ion: 67 Resp: 54894
 Ion Ratio Lower Upper
 67 100
 69 30.4 11.9 51.9





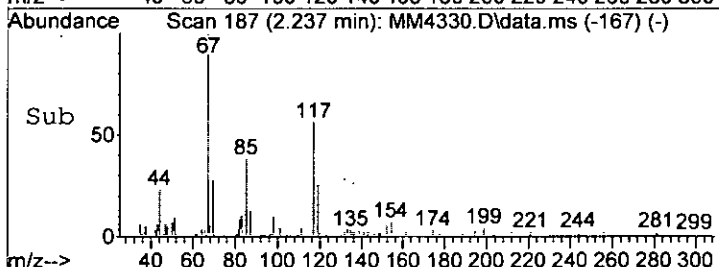
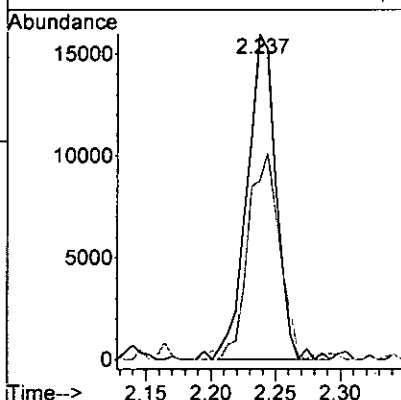
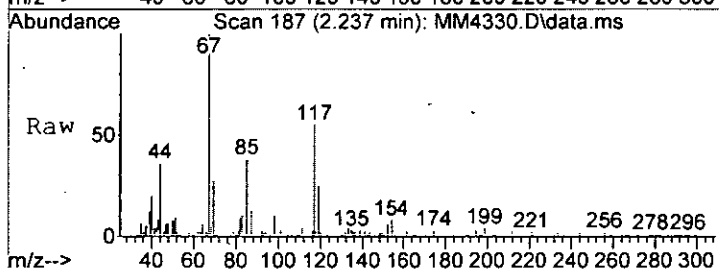
#8
 Trichlorofluoromethane
 Concen: 0.97 ppb
 RT: 1.975 min Scan# 144
 Delta R.T. 0.006 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

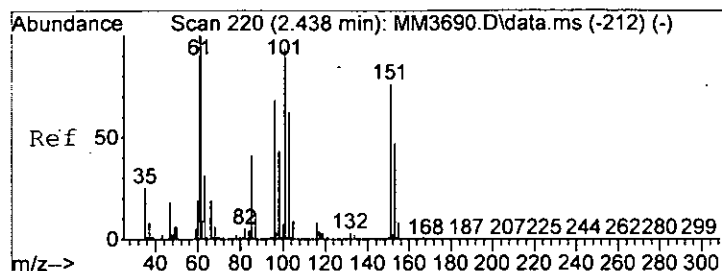
Tgt Ion:	101	Resp:	13013
Ion	Ratio	Lower	Upper
101	100		
103	69.2	45.9	85.9
66	18.0	0.0	33.1



#10
 Freon 123a
 Concen: 2.64 ppb
 RT: 2.237 min Scan# 187
 Delta R.T. 0.006 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

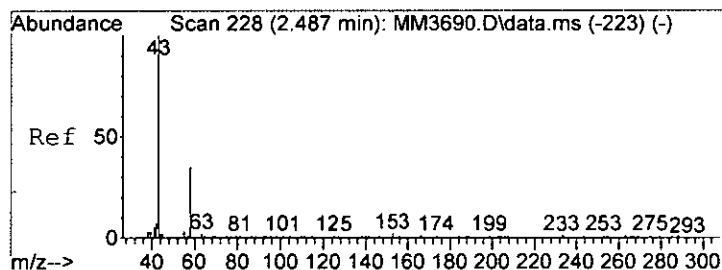
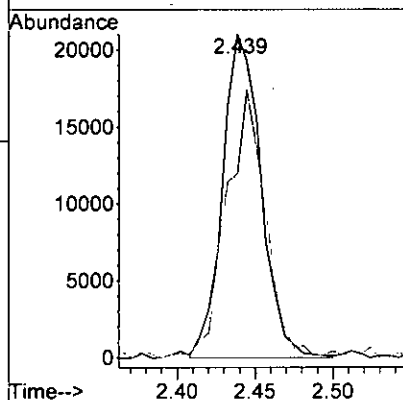
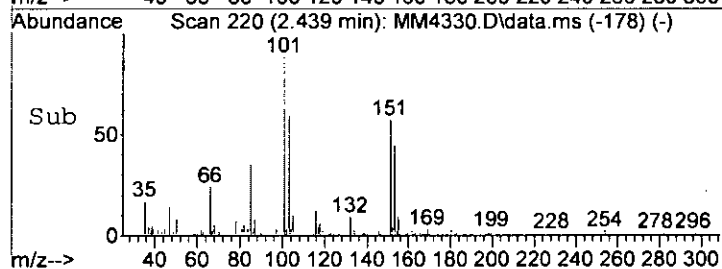
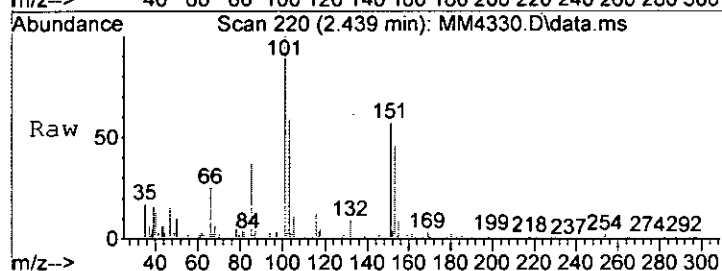
Tgt Ion:	67	Resp:	25130
Ion	Ratio	Lower	Upper
67	100		
117	54.9	59.0	99.0#





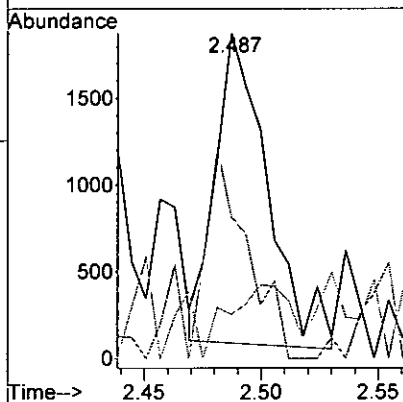
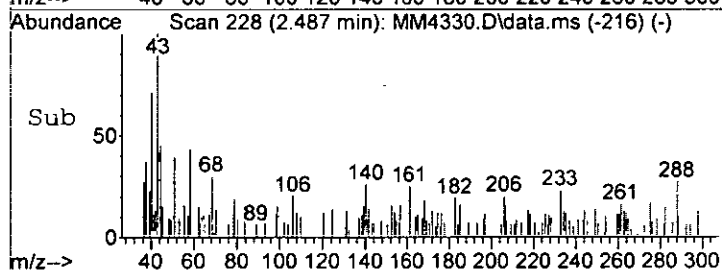
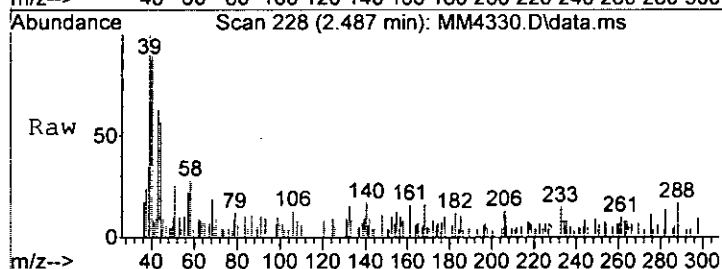
#14
Freon 113
Concen: 5.76 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

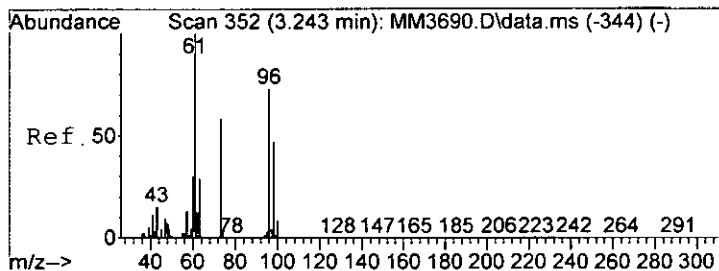
Tgt Ion: 101 Resp: 35964
Ion Ratio Lower Upper
101 100
151 57.0 61.8 101.8#



#15
Acetone
Concen: 2.30 ppb
RT: 2.487 min Scan# 228
Delta R.T. -0.000 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

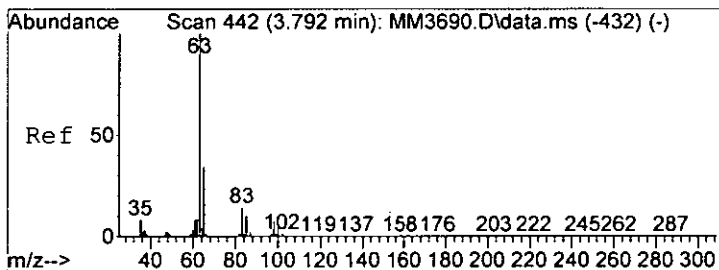
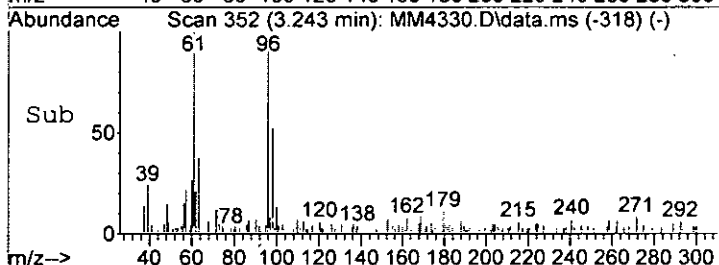
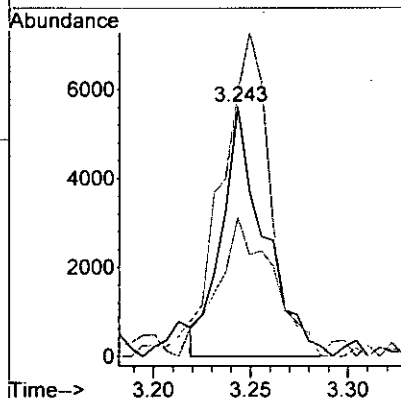
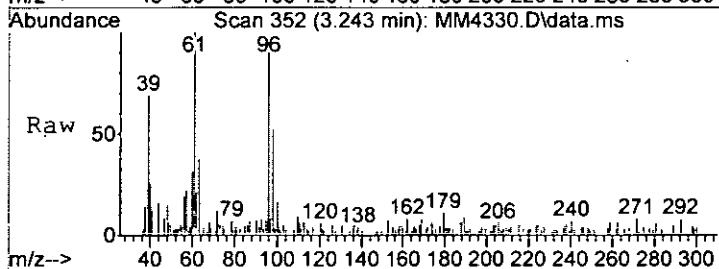
Tgt Ion: 43 Resp: 2771
Ion Ratio Lower Upper
43 100
58 43.5 13.9 53.9
42 13.5 0.0 27.3





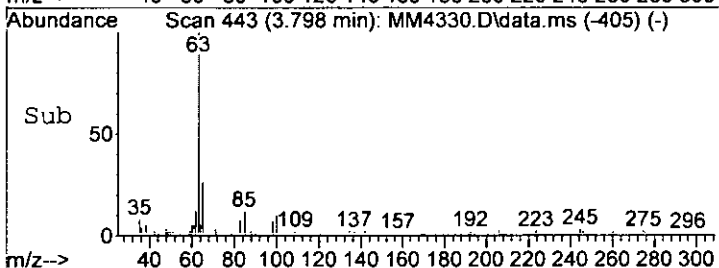
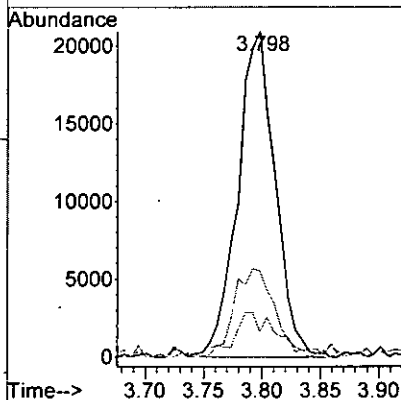
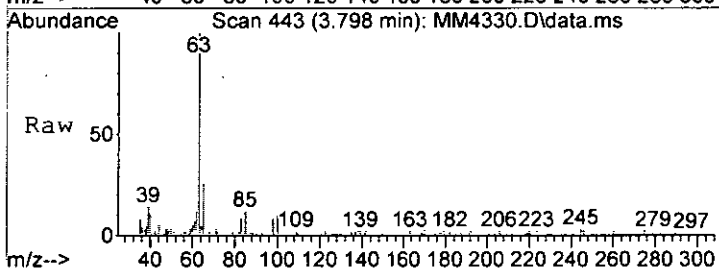
#26
trans-1,2-Dichloroethene
Concen: 1.20 ppb
RT: 3.243 min Scan# 352
Delta R.T. -0.000 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

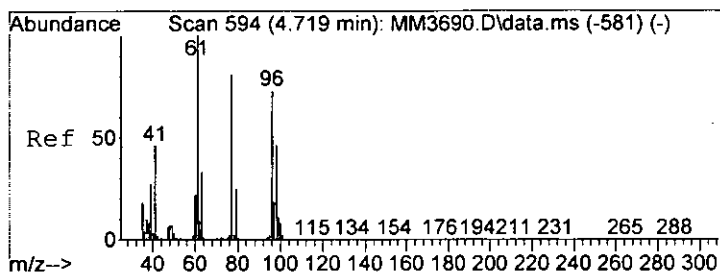
Tgt Ion: 96 Resp: 8466
Ion Ratio Lower Upper
96 100
98 55.4 44.2 84.2
61 105.7 116.9 156.9#



#28
1,1-Dicethane
Concen: 3.97 ppb
RT: 3.798 min Scan# 443
Delta R.T. 0.006 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

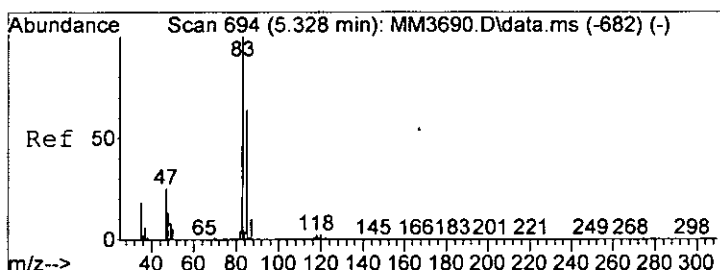
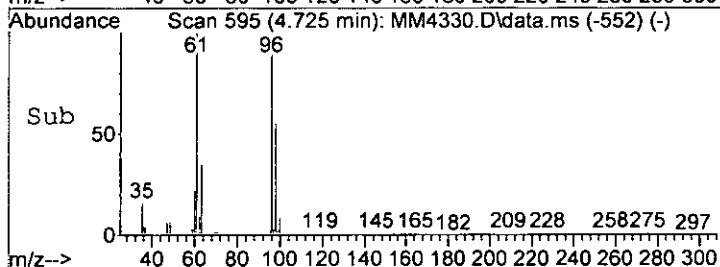
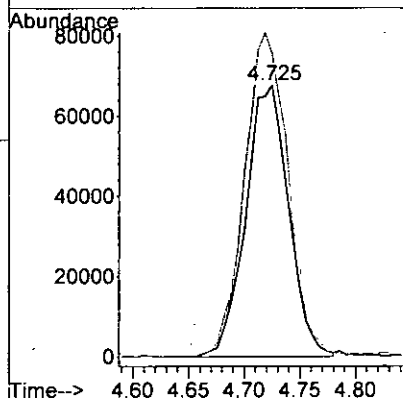
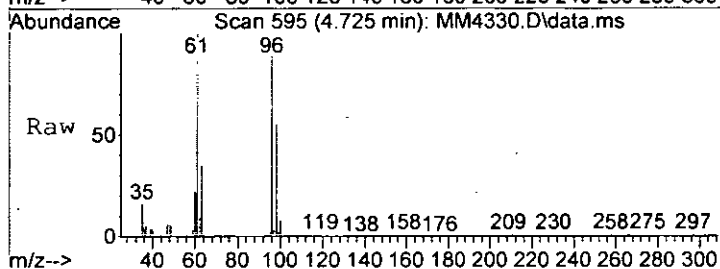
Tgt Ion: 63 Resp: 46202
Ion Ratio Lower Upper
63 100
65 26.4 13.8 53.8
83 7.8 0.0 34.1





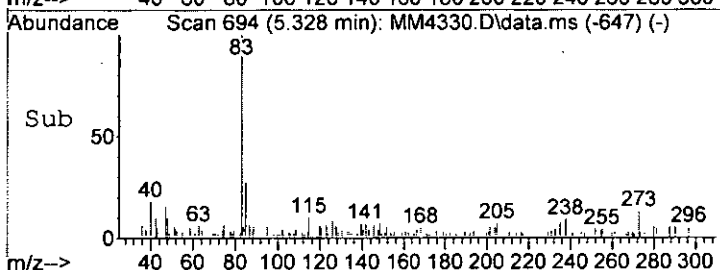
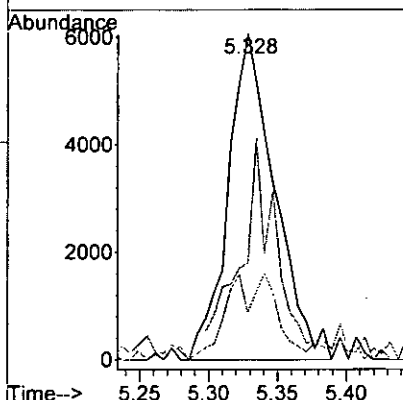
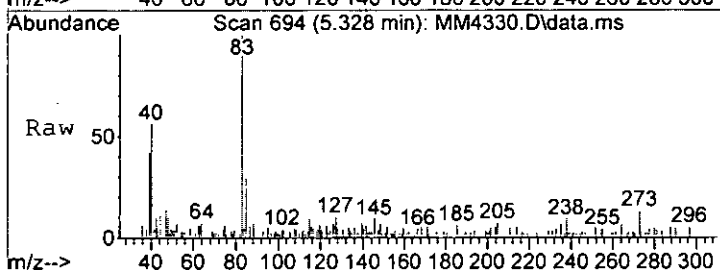
#34
 cis-1,2-Dichloroethene
 Concen: 23.95 ppb
 RT: 4.725 min Scan# 595
 Delta R.T. 0.006 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

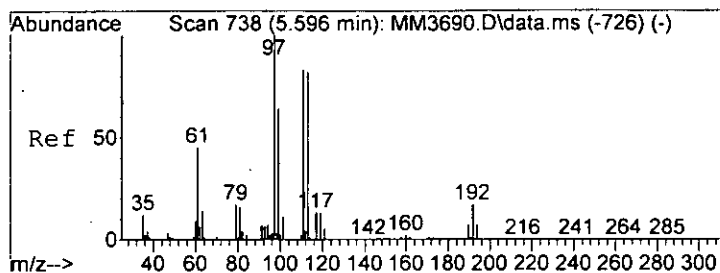
Tgt Ion: 96 Resp: 180009
 Ion Ratio Lower Upper
 96 100
 61 112.0 117.6 157.6#



#40
 Chloroform
 Concen: 1.16 ppb
 RT: 5.328 min Scan# 694
 Delta R.T. -0.000 min
 Lab File: MM4330.D
 Acq: 28 Jun 2015 4:32 pm

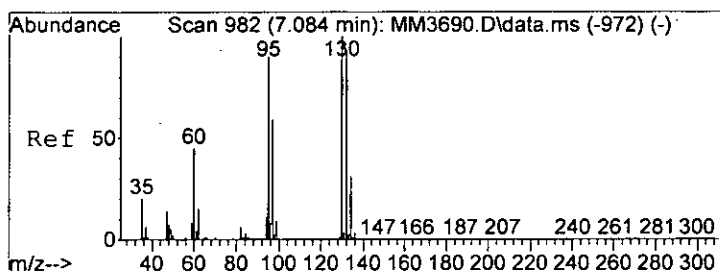
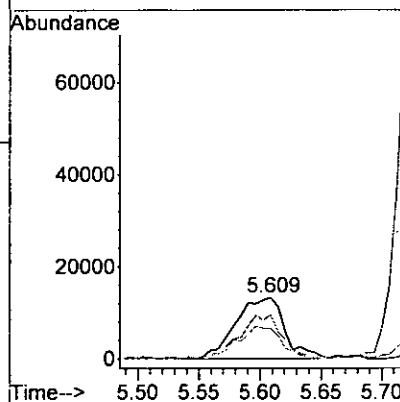
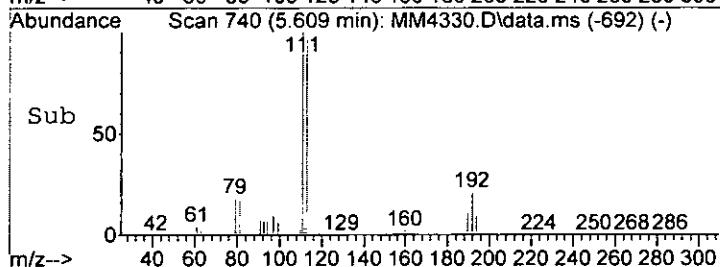
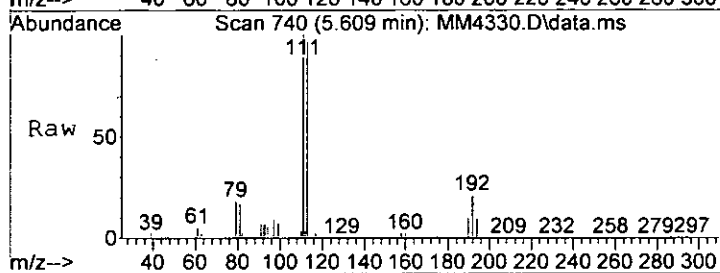
Tgt Ion: 83 Resp: 14289
 Ion Ratio Lower Upper
 83 100
 85 29.8 43.8 83.8#
 47 14.4 4.7 44.7





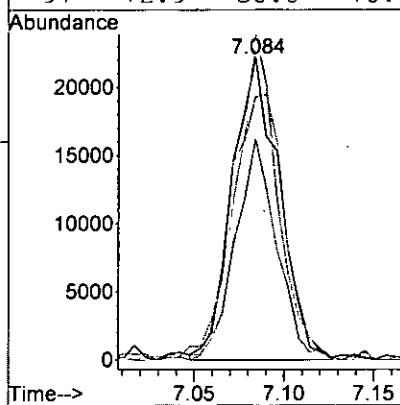
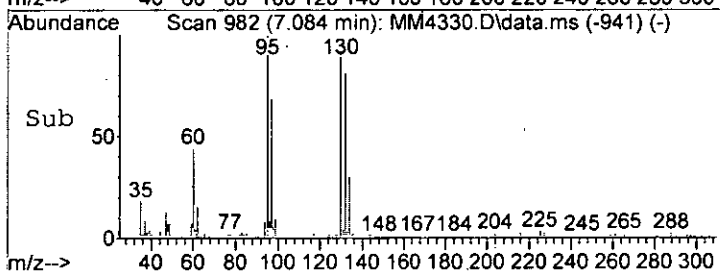
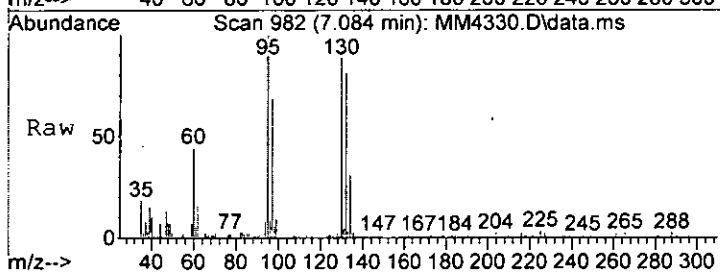
#41
1,1,1-Trichloroethane
Concen: 3.09 ppb m
RT: 5.609 min Scan# 740
Delta R.T. 0.012 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

Tgt Ion: 97 Resp: 36517
Ion Ratio Lower Upper
97 100
99 71.2 43.8 83.8
61 49.3 25.3 65.3



#54
Trichloroethene
Concen: 5.10 ppb
RT: 7.084 min Scan# 982
Delta R.T. -0.000 min
Lab File: MM4330.D
Acq: 28 Jun 2015 4:32 pm

Tgt Ion: 130 Resp: 40144
Ion Ratio Lower Upper
130 100
132 86.7 72.7 112.7
95 107.5 69.8 109.8
97 72.9 38.8 78.8



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1055
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 18:04

Sample Name: BAT-EW-3-150619
 Lab Code: R1504946-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	960	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	6.7 J	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	8.8 J	10	3.4	
75-34-3	1,1-Dichloroethane	11	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1900	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	4.3 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	14	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	6.5 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1055
Date Received: 6/20/15
Date Analyzed: 6/28/15 18:04

Sample Name: BAT-EW-3-150619
Lab Code: R1504946-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4333.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 18:04			
Toluene-d8	109	87-121	6/28/15 18:04			
Dibromofluoromethane	106	89-119	6/28/15 18:04			

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 16:13:51 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

148 6/29/15

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	845460	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1462584	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1414033	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	773653	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.596	113	418770	52.91	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 105.82%			
48) surr1,1,2-dichloroetha...	6.102	65	459037	54.30	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.60%			
65) SURR3,Toluene-d8	8.535	98	1878824	54.35	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.70%			
70) SURR2,BFB	11.053	95	715156	54.45	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 108.90%			
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.433	62	849418m	95.87	ppb	
7) Freon 21	1.926	67	25898	1.76	ppb	95
8) Trichlorofluoromethane	1.975	101	4507	0.34	ppb	91
10) Freon 123a	2.243	67	14848	1.58	ppb	93
13) 1,1-Dicethene	2.438	96	4175	0.67	ppb	95
14) Freon 113	2.445	101	20897	3.39	ppb	93
22) Methylene Chloride	2.926	84	1657m	0.25	ppb	
26) trans-1,2-Dichloroethene	3.249	96	6137	0.88	ppb	# 66
28) 1,1-Dicethane	3.792	63	12048m	1.05	ppb	
34) cis-1,2-Dichloroethene	4.719	96	1377890	186.04	ppb	84
40) Chloroform	5.328	83	5166m	0.43	ppb	
41) 1,1,1-Trichloroethane	5.609	97	16108m	1.38	ppb	
54) Trichloroethene	7.090	130	5110	0.65	ppb	# 84

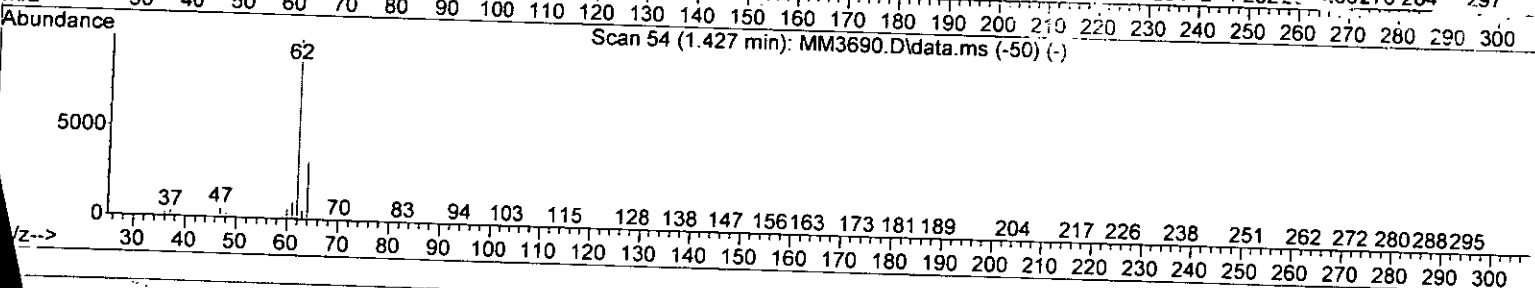
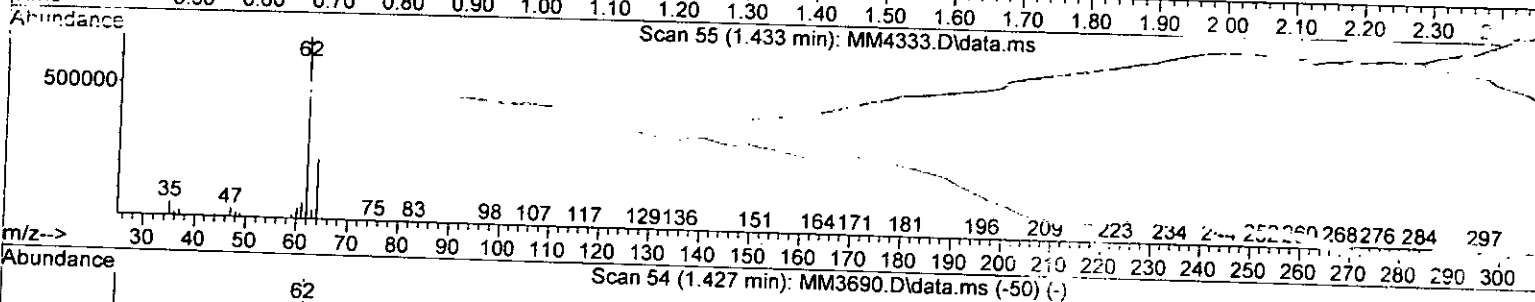
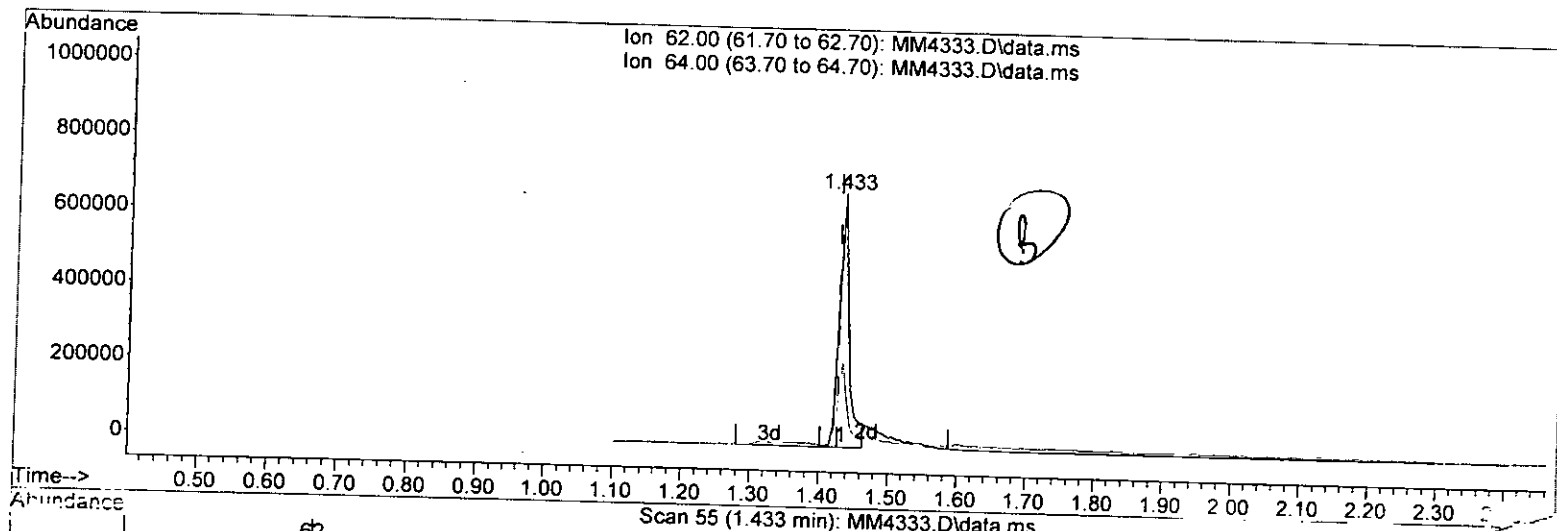
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003110
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 76.94 ppb

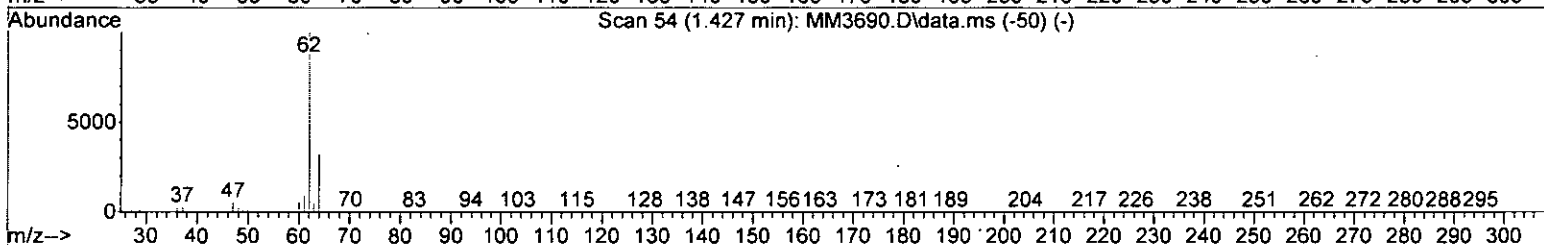
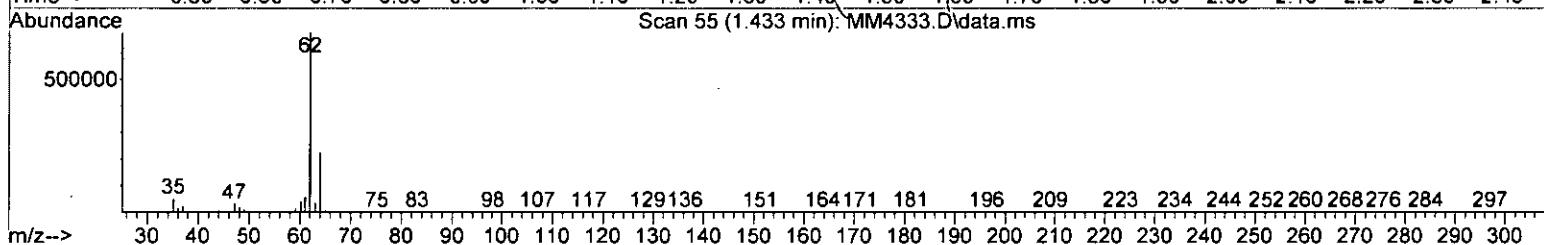
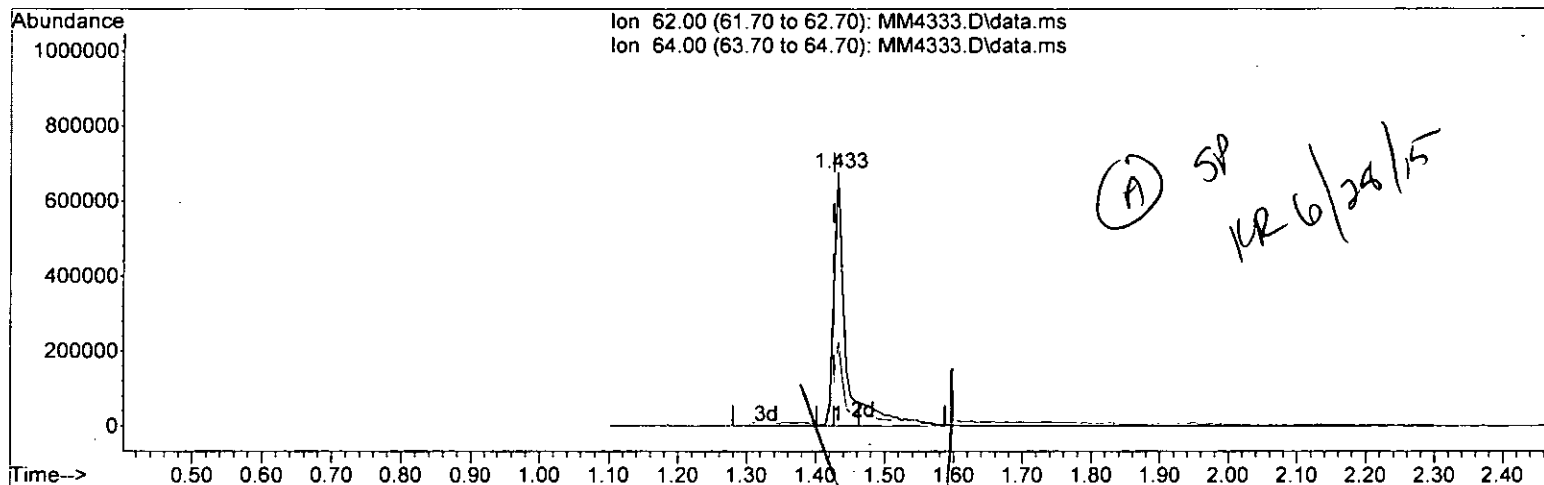
response 681716

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	33.25
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\062815\
Data File : MM4333.D
Acq On : 28 Jun 2015 6:04 pm
Operator : K.Ruest
Sample : R1504946-003|10
Misc : CB&I 13429 T4
ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4333.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 95.87 ppb m

response 849418

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	33.25
0.00	0.00	0.00
0.00	0.00	0.00

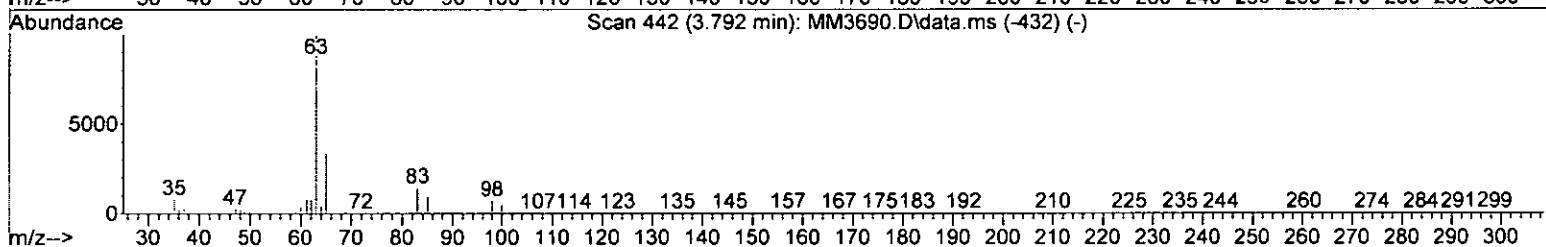
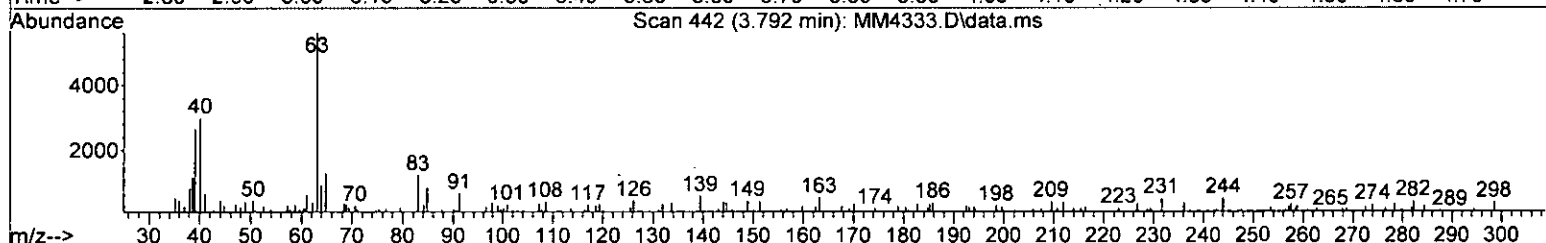
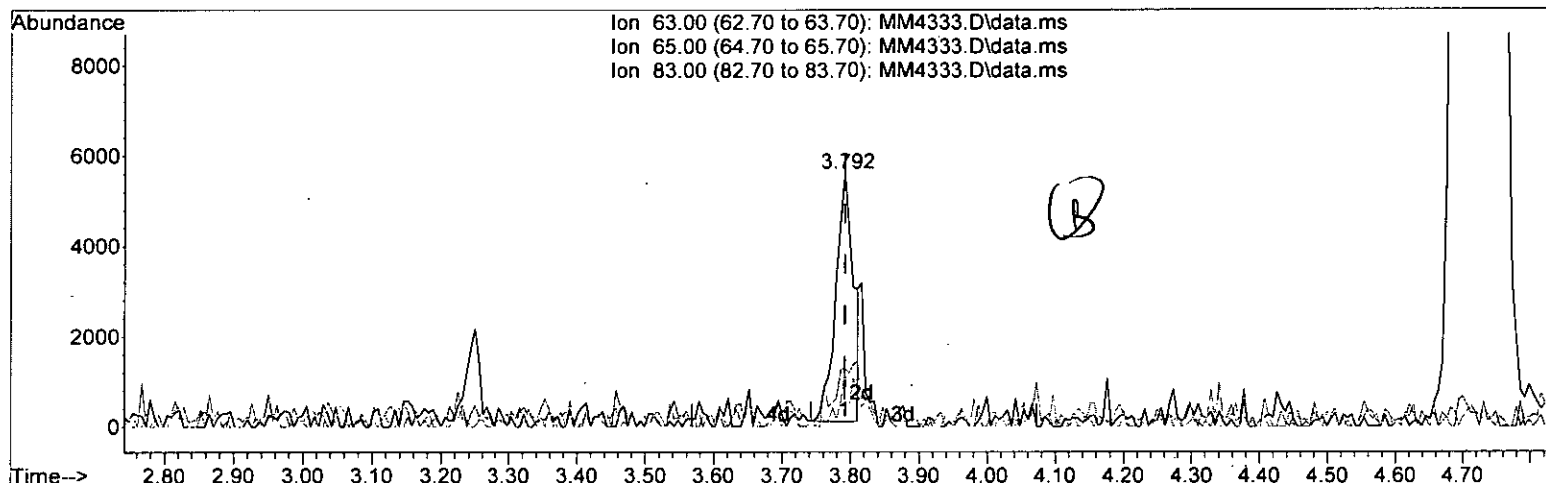
m
ch

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(28) 1,1-Dicethane (P)

3.792min (-0.000) 0.86 ppb

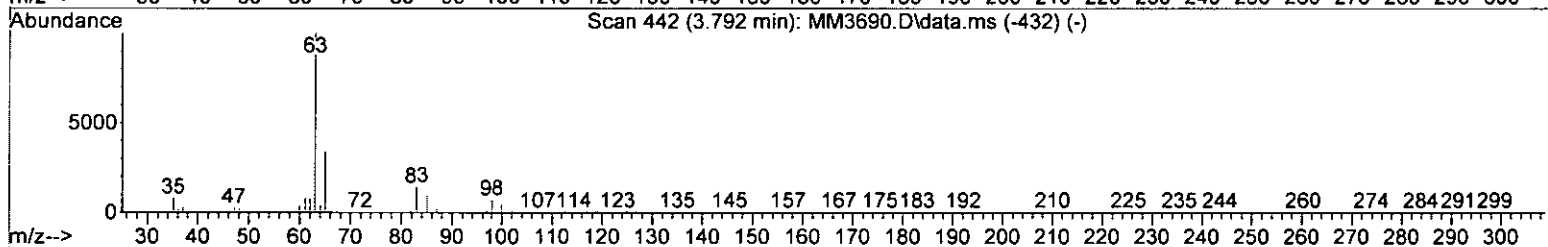
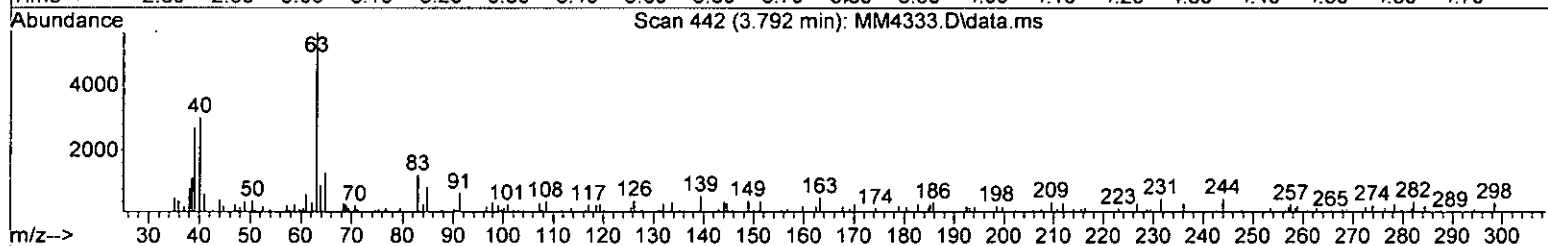
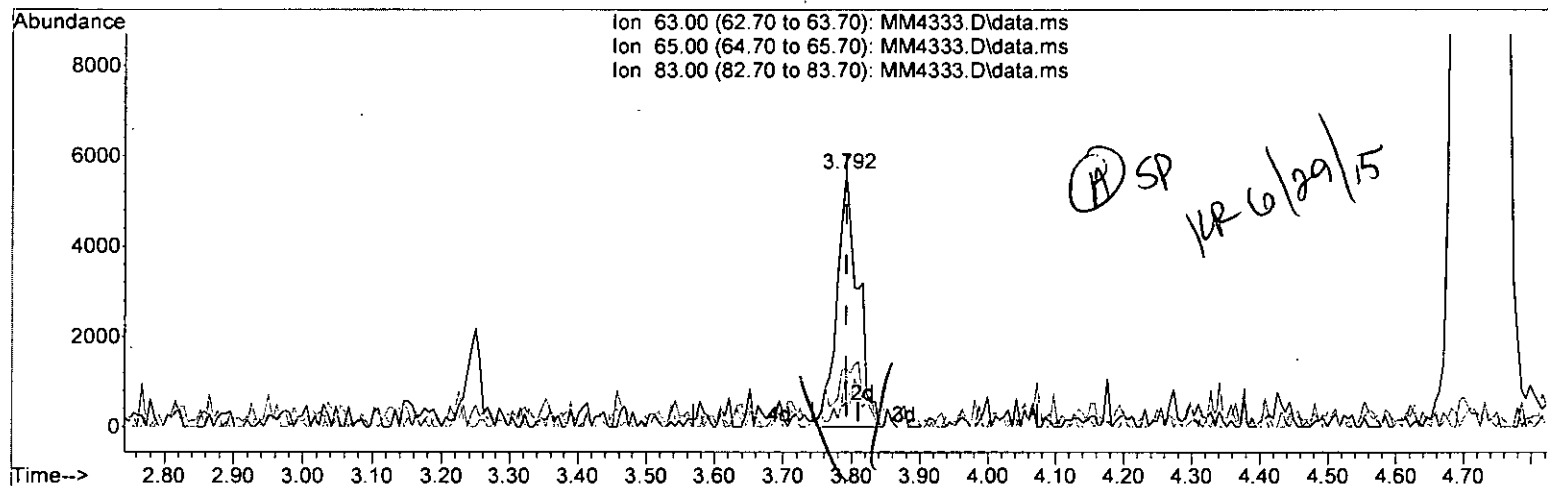
response 9820

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	23.05
83.00	14.10	21.76
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(28) 1,1-Dicethane (P)

3.792min (-0.000) 1.05 ppb m

response 12048

Ion	Exp%	Act%
63.00	100	100
65.00	33.80	23.05
83.00	14.10	21.76
0.00	0.00	0.00

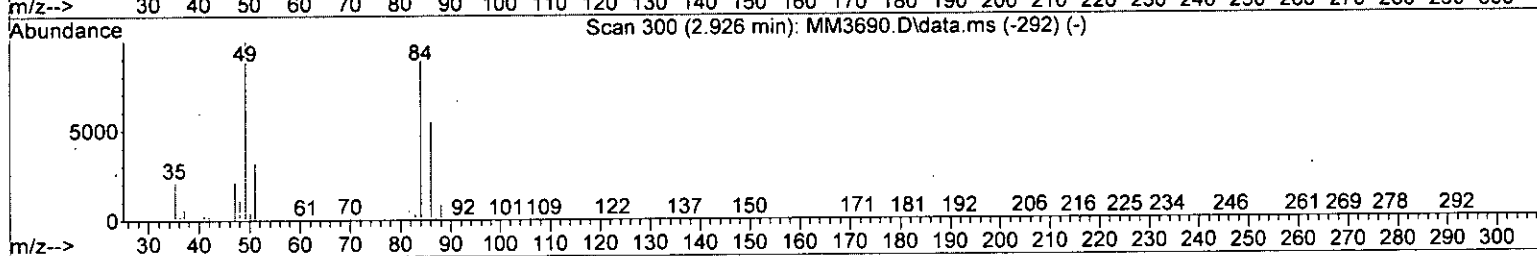
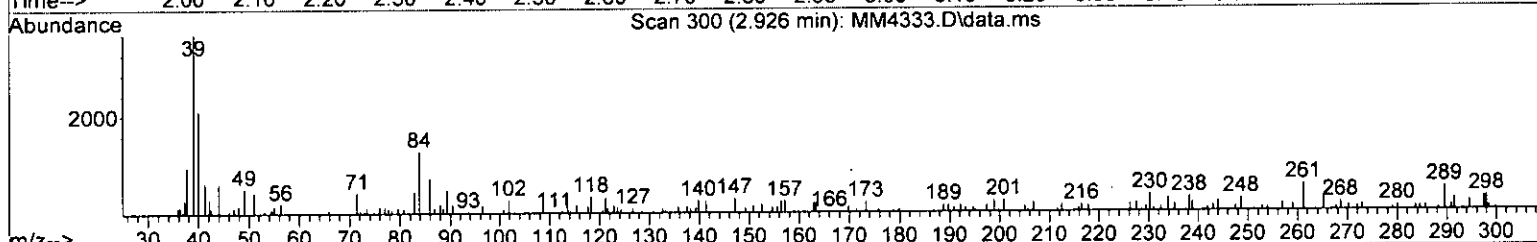
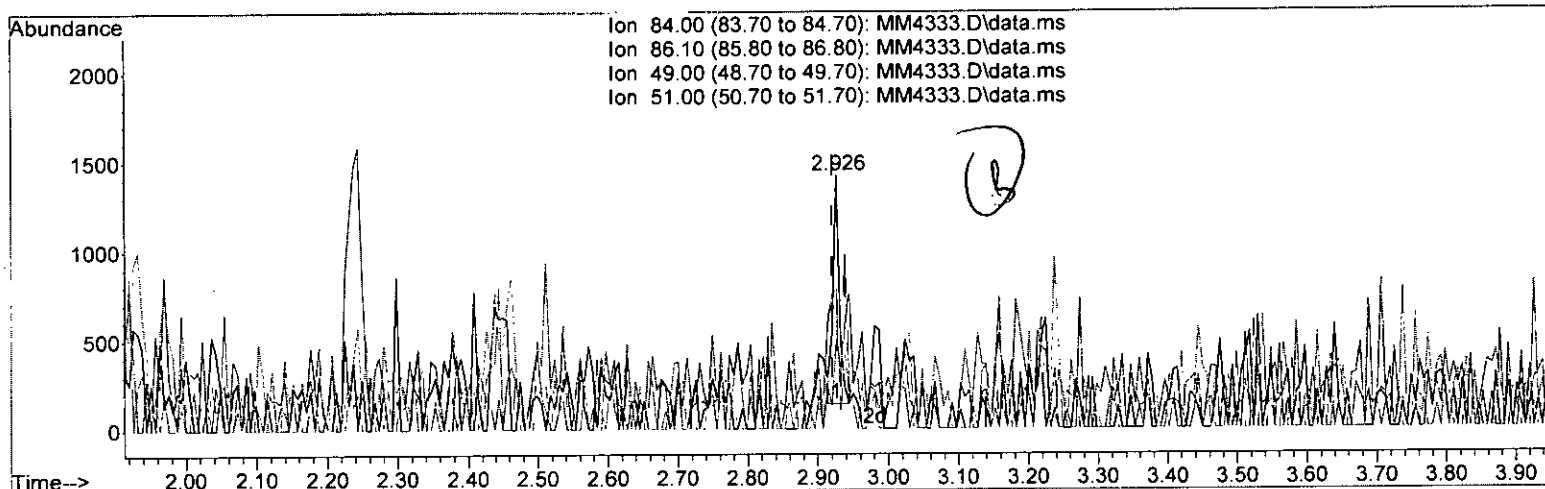
mw
Cl₂

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(22) Methylene Chloride (P)

2.926min (+0.006) 0.12 ppb

response 768

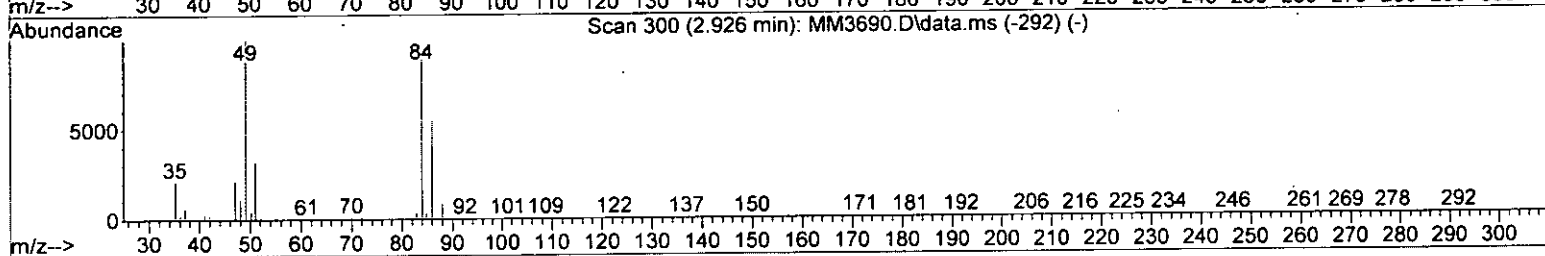
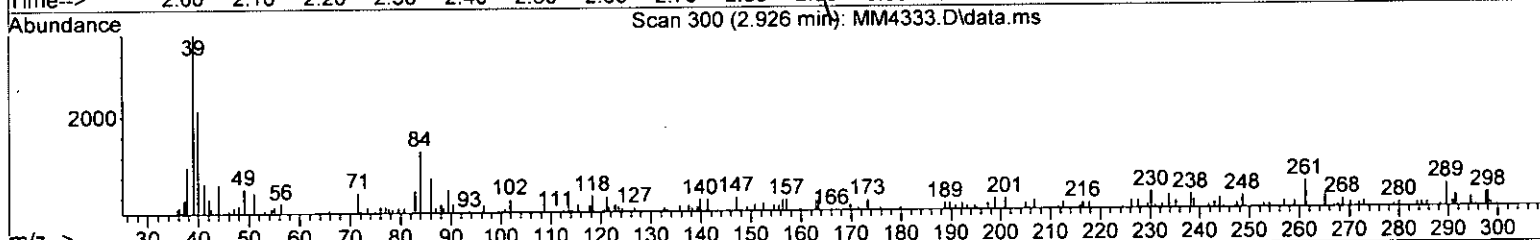
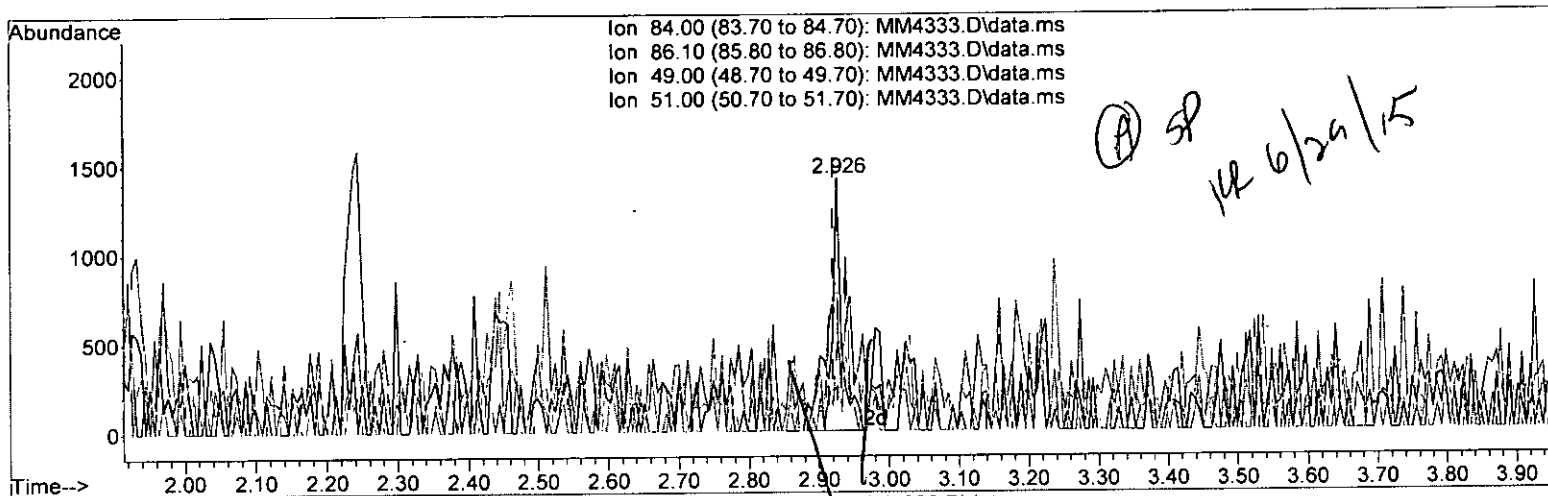
Ion	Exp%	Act%
84.00	100	100
86.10	61.70	54.86
49.00	112.00	40.70#
51.00	35.80	34.86

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(22) Methylene Chloride (P)

2.926min (+0.006) 0.25 ppb m

response 1657

Ion	Exp%	Act%
84.00	100	100
86.10	61.70	59.60
49.00	112.00	44.22#
51.00	35.80	37.87

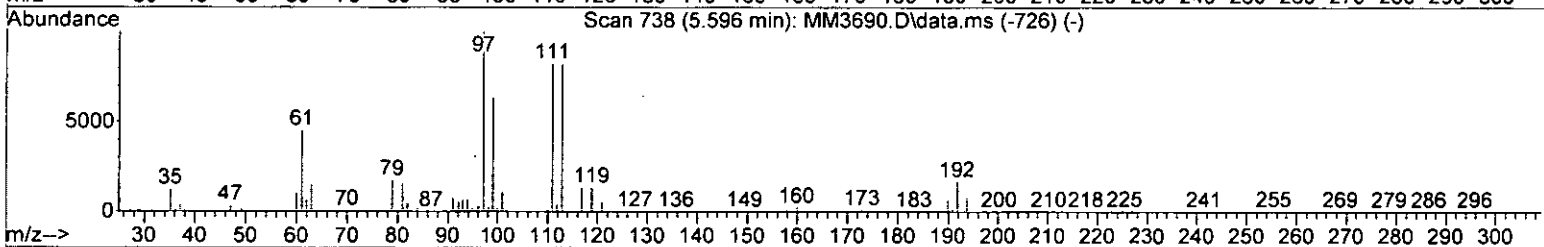
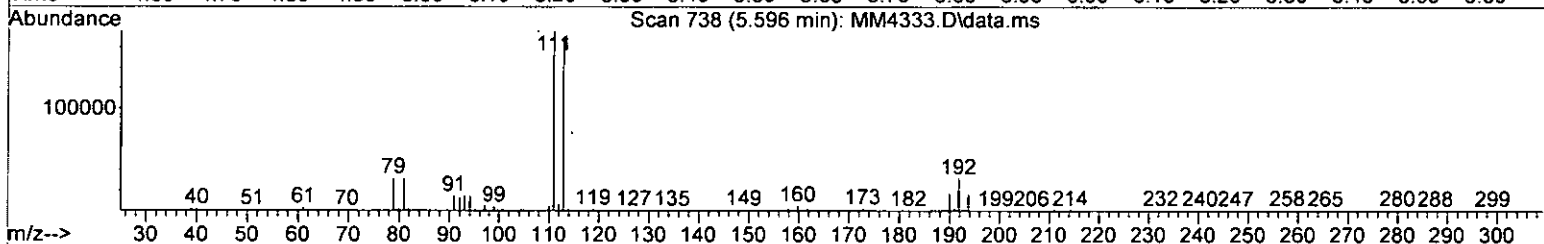
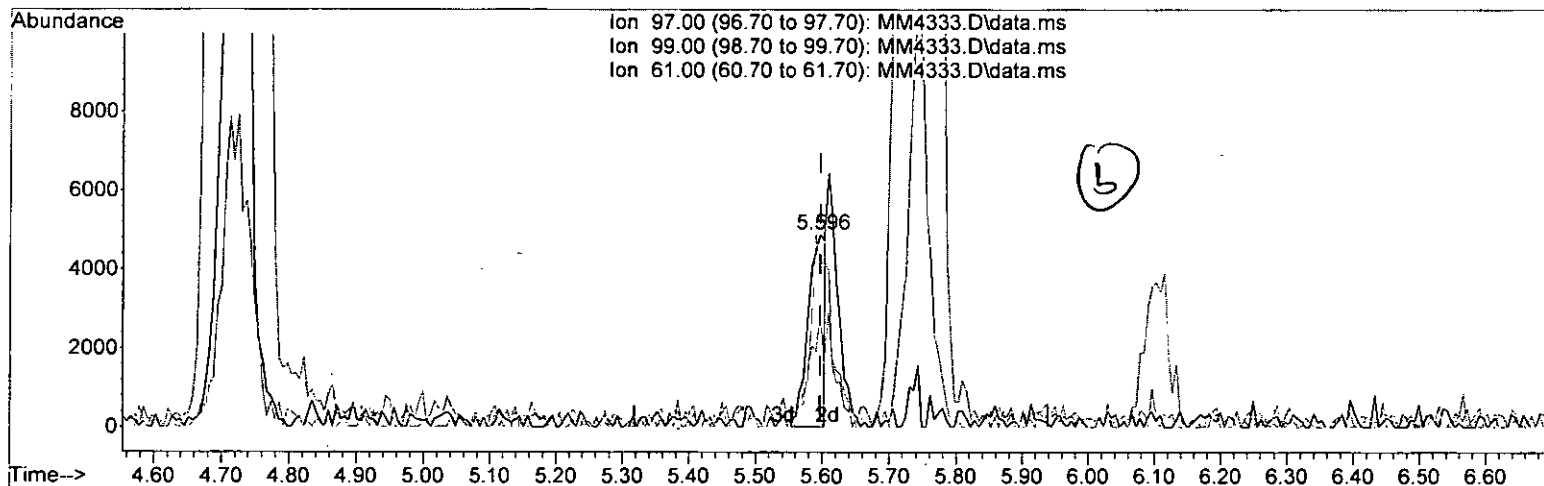
Handwritten: m/ 6/29

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.596min (-0.000) 0.73 ppb

response 8510

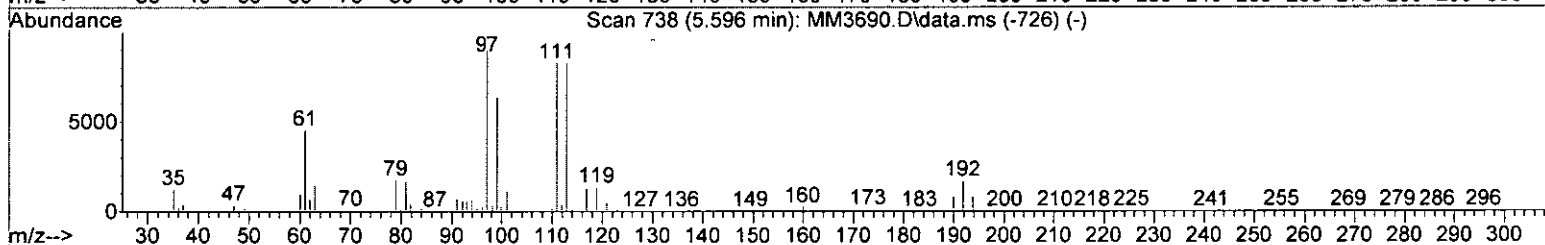
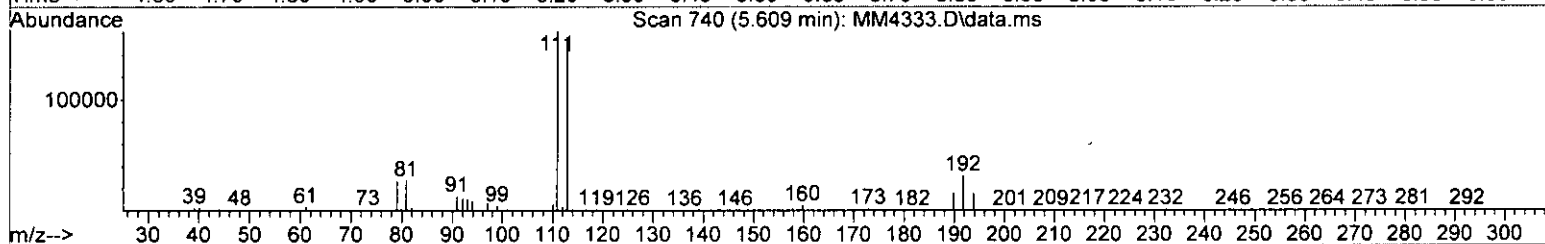
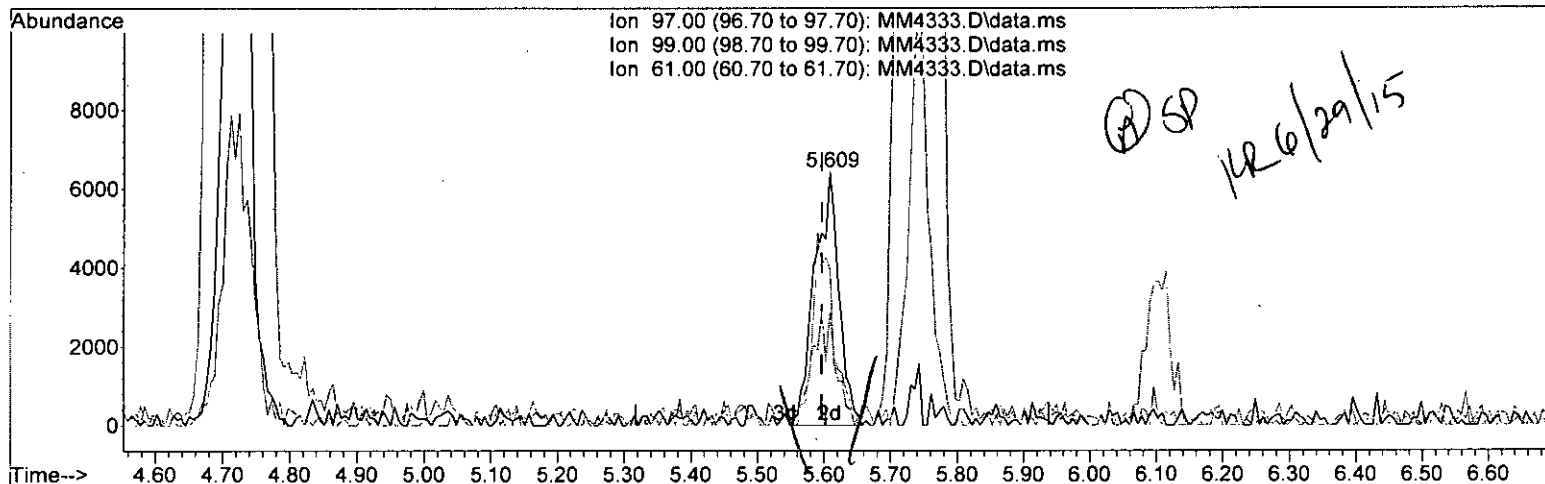
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	83.73
61.00	45.30	59.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.609min (+0.012) 1.38 ppb m

response 16108

Ion	Exp%	Act%
97.00	100	100
99.00	63.80	61.23
61.00	45.30	44.78
0.00	0.00	0.00

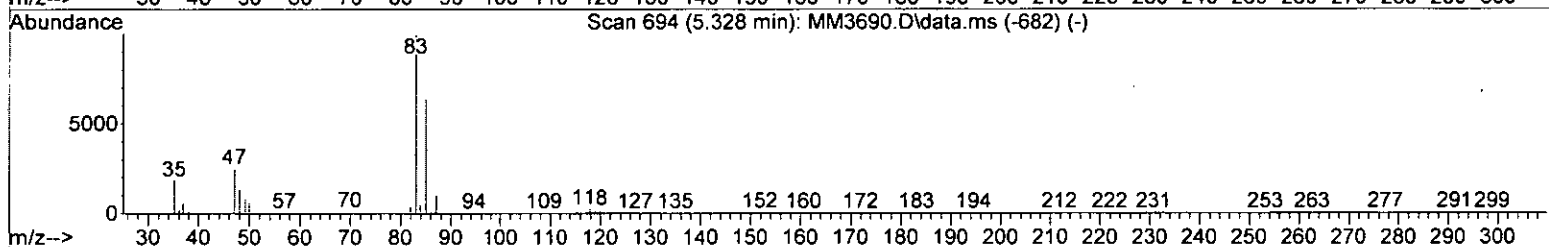
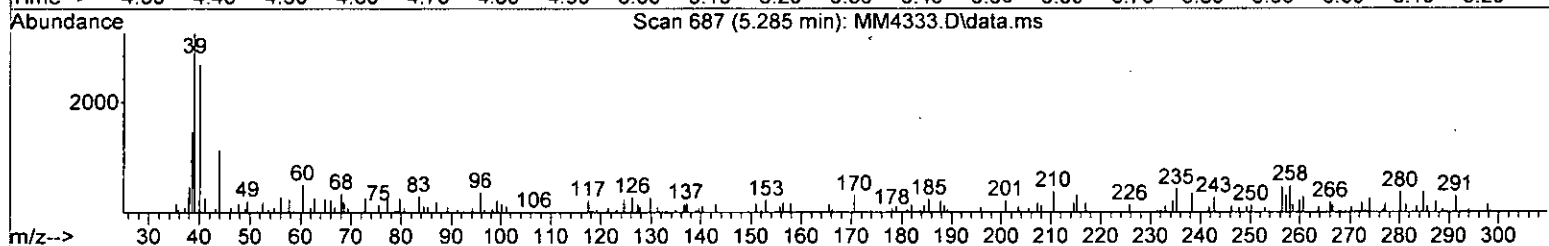
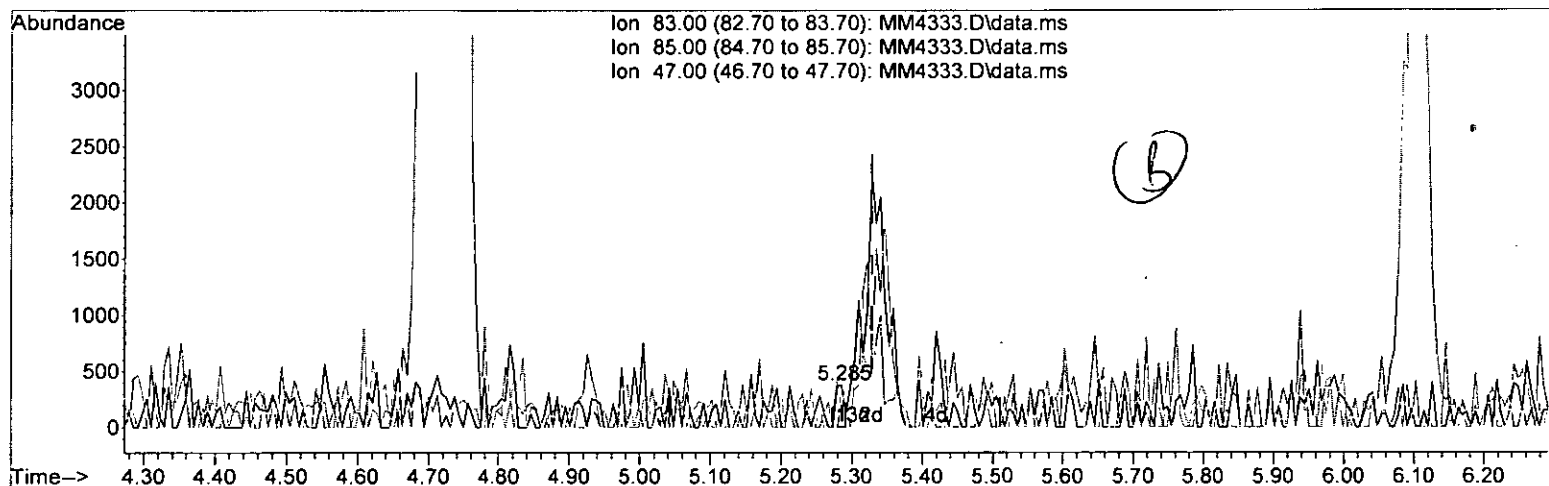
mm
ch

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(40) Chloroform (P)

5.285min (-0.043) 0.03 ppb

response 313

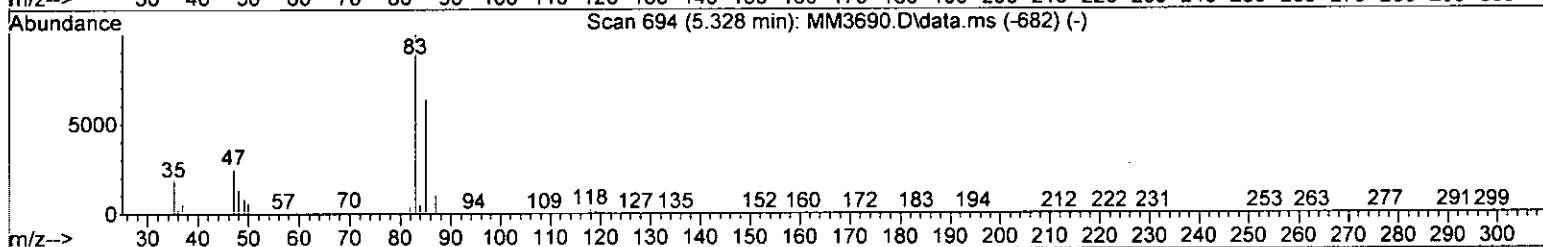
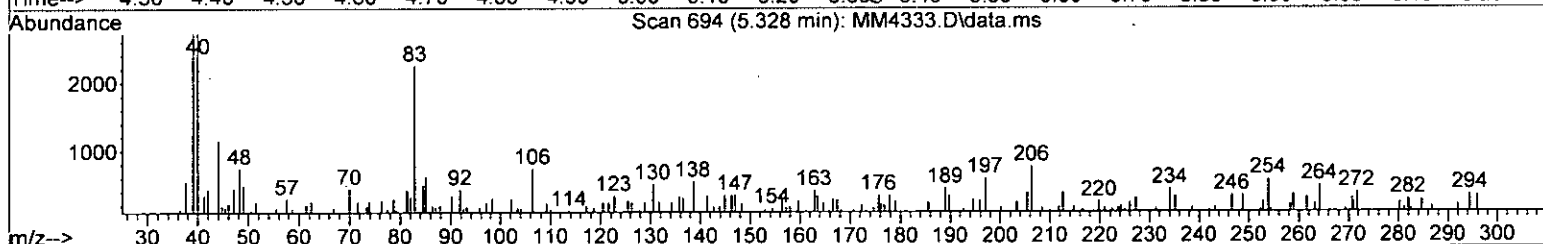
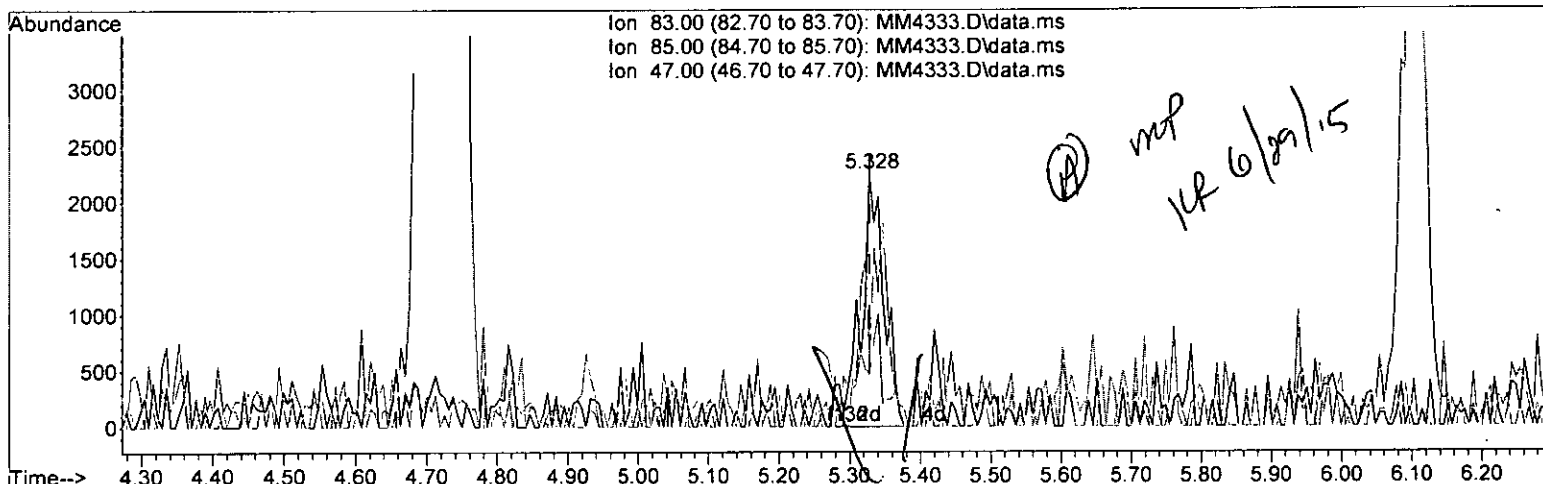
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	50.13
47.00	24.70	28.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4333.D
 Acq On : 28 Jun 2015 6:04 pm
 Operator : K.Ruest
 Sample : R1504946-003|10
 Misc : CB&I 13429 T4
 ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 18:19:56 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4333.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.43 ppb m

response 5166

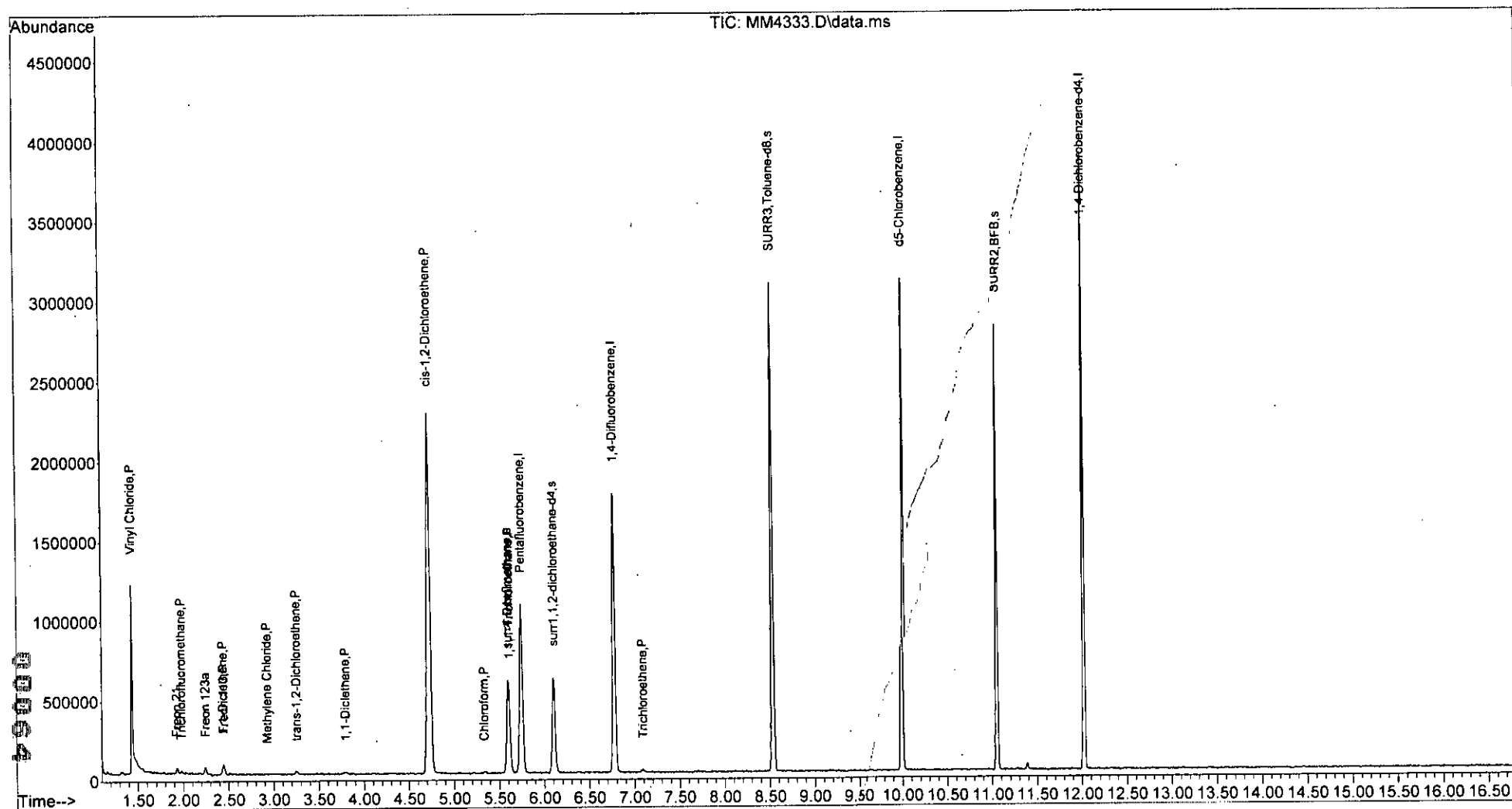
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	27.61#
47.00	24.70	20.11
0.00	0.00	0.00

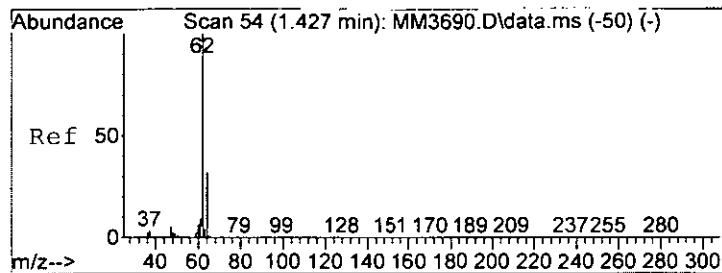
Handwritten: dw ch

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4333.D
Acq On : 28 Jun 2015 6:04 pm
Operator : K.Ruest
Sample : R1504946-003\10
Misc : CB&I 13429 T4
ALS Vial : 17 Sample Multiplier: 1

Inst : MSVOA-12

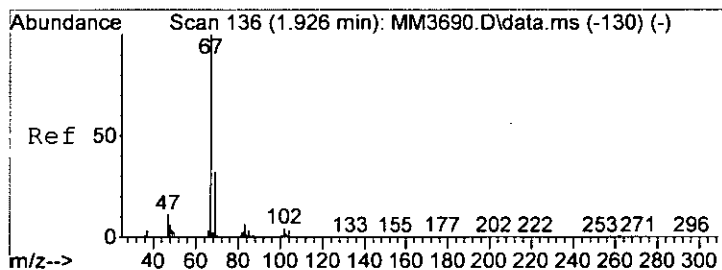
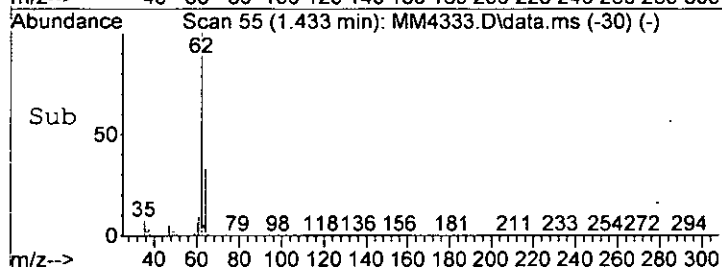
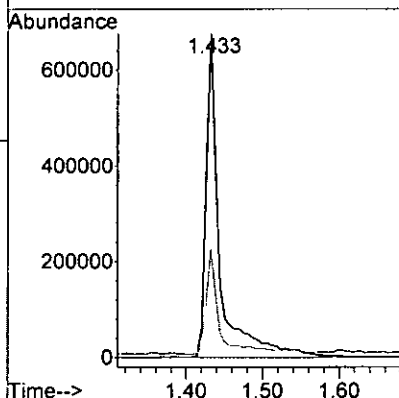
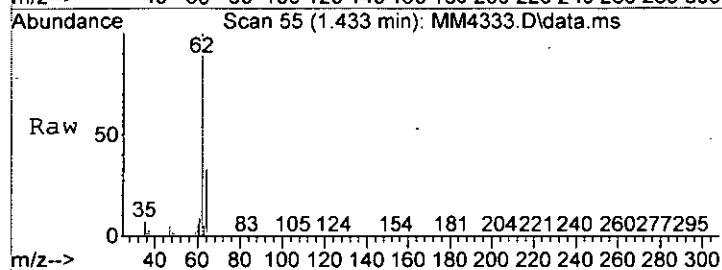
Quant Time: Jun 29 16:13:51 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





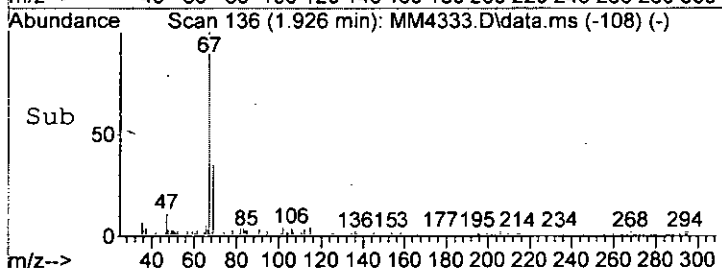
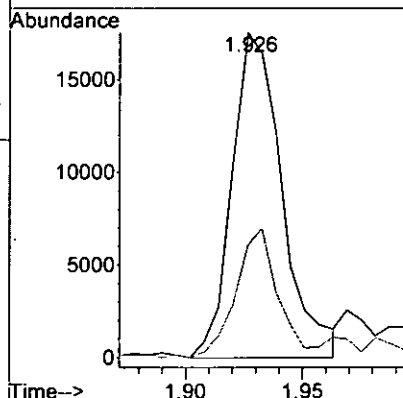
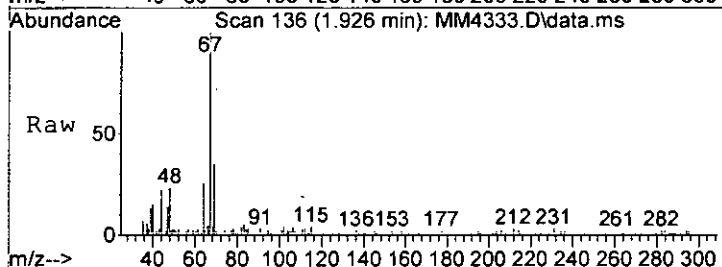
#4
 Vinyl Chloride
 Concen: 95.87 ppb m
 RT: 1.433 min Scan# 55
 Delta R.T. 0.006 min
 Lab File: MM4333.D
 Acq: 28 Jun 2015 6:04 pm

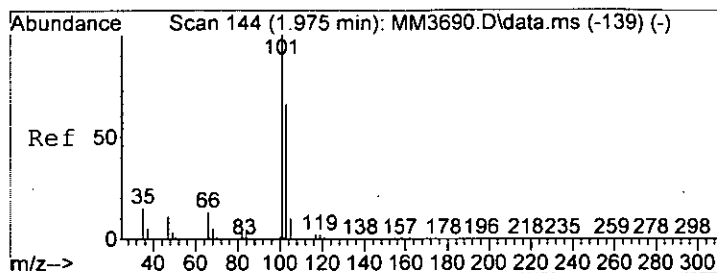
Tgt Ion: 62 Resp: 849418
 Ion Ratio Lower Upper
 62 100
 64 33.3 11.5 51.5



#7
 Freon 21
 Concen: 1.76 ppb
 RT: 1.926 min Scan# 136
 Delta R.T. 0.006 min
 Lab File: MM4333.D
 Acq: 28 Jun 2015 6:04 pm

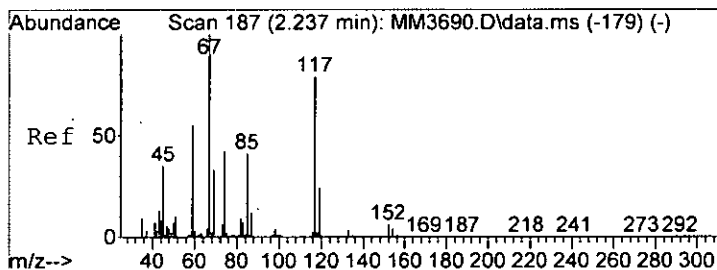
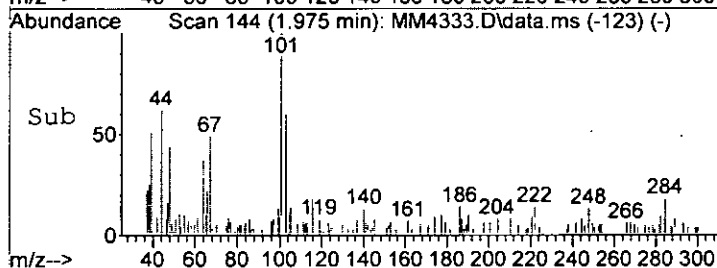
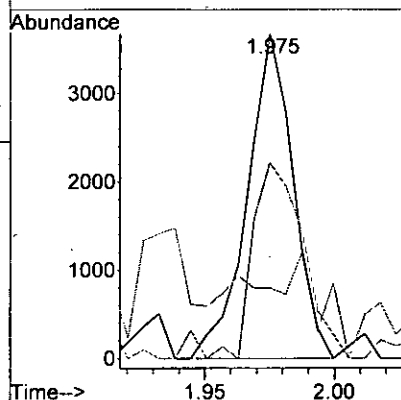
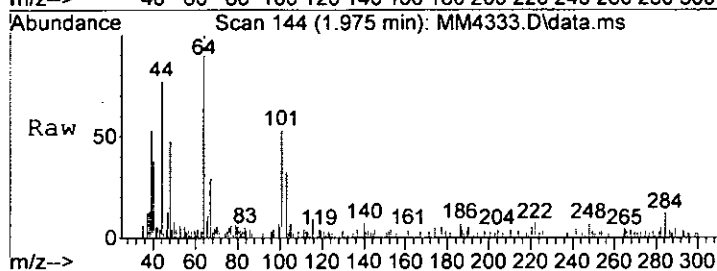
Tgt Ion: 67 Resp: 25898
 Ion Ratio Lower Upper
 67 100
 69 34.6 11.9 51.9





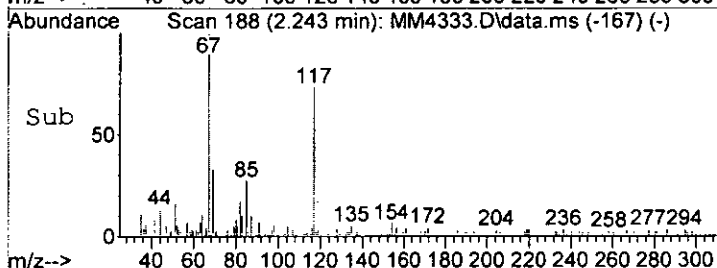
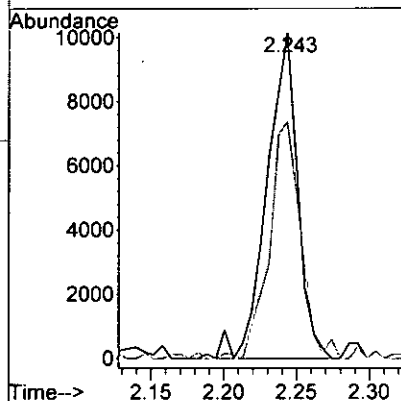
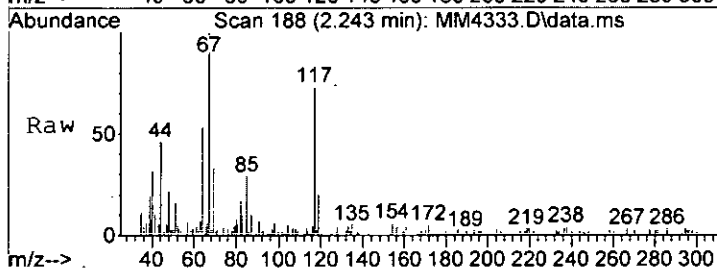
#8
 Trichlorofluoromethane
 Concen: 0.34 ppb
 RT: 1.975 min Scan# 144
 Delta R.T. 0.006 min
 Lab File: MM4333.D
 Acq: 28 Jun 2015 6:04 pm

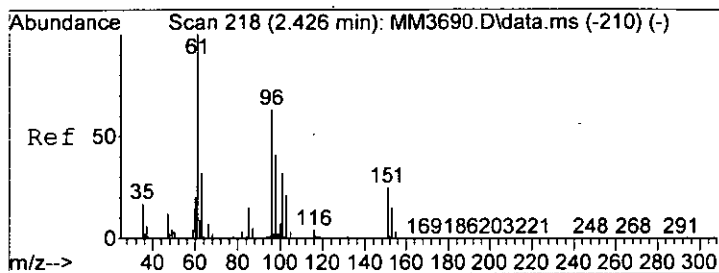
Tgt Ion: 101 Resp: 4507
 Ion Ratio Lower Upper
 101 100
 103 60.4 45.9 85.9
 66 21.8 0.0 33.1



#10
 Freon 123a
 Concen: 1.58 ppb
 RT: 2.243 min Scan# 188
 Delta R.T. 0.012 min
 Lab File: MM4333.D
 Acq: 28 Jun 2015 6:04 pm

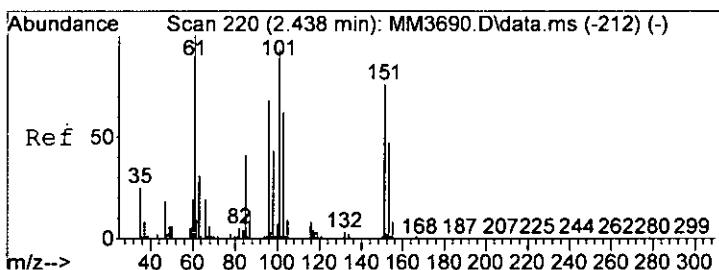
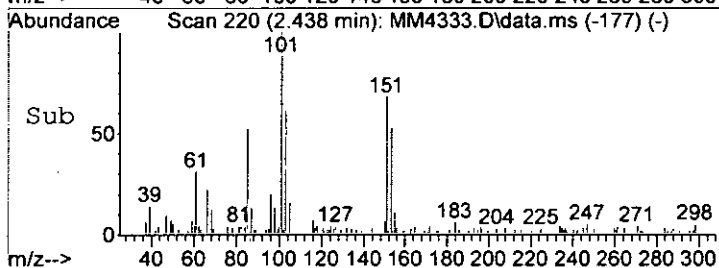
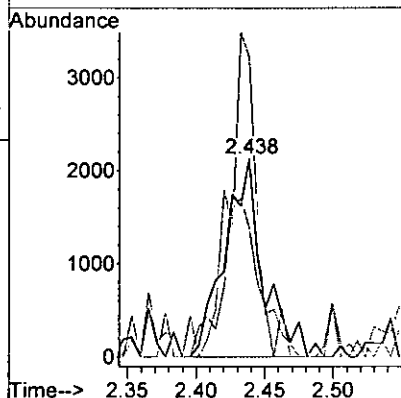
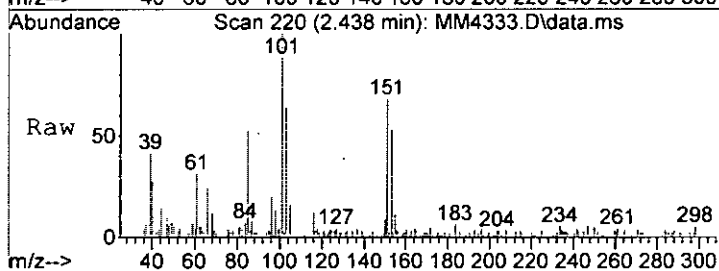
Tgt Ion: 67 Resp: 14848
 Ion Ratio Lower Upper
 67 100
 117 72.8 59.0 99.0





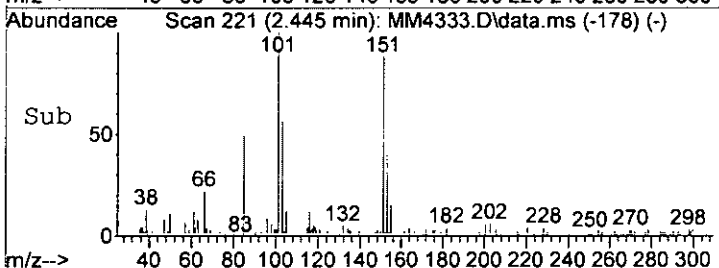
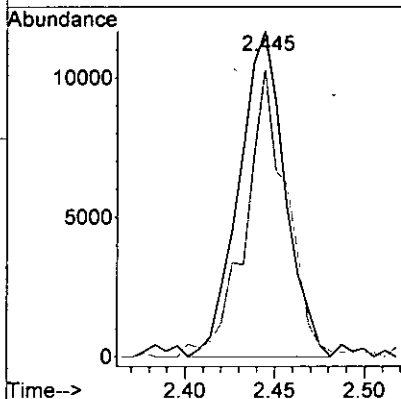
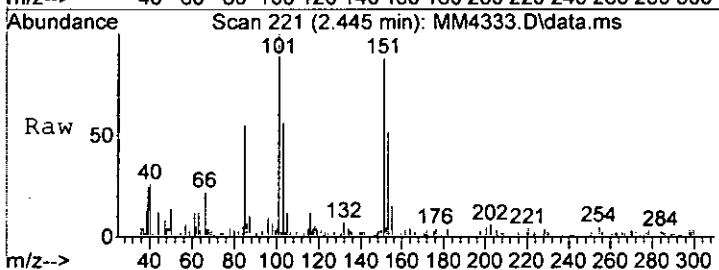
#13
1,1-Dicloroethene
Concen: 0.67 ppb
RT: 2.438 min Scan# 220
Delta R.T. 0.012 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

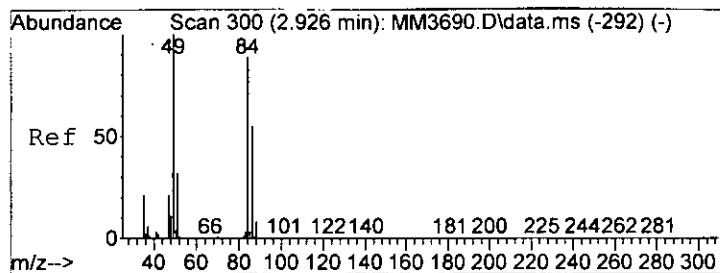
Tgt Ion: 96 Resp: 4175
Ion Ratio Lower Upper
96 100
98 65.0 45.2 85.2
61 151.0 139.4 179.4



#14
Freon 113
Concen: 3.39 ppb
RT: 2.445 min Scan# 221
Delta R.T. 0.006 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

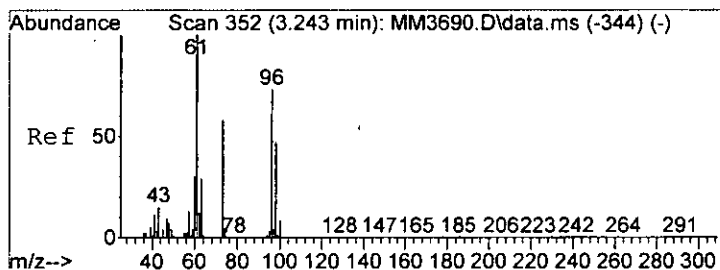
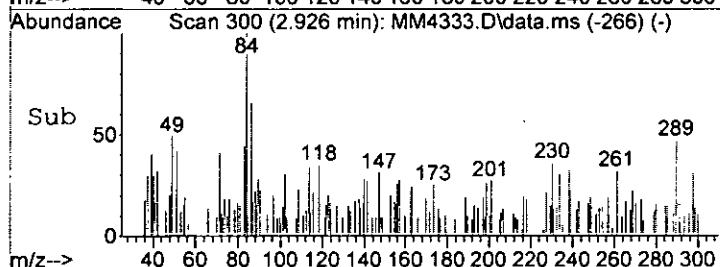
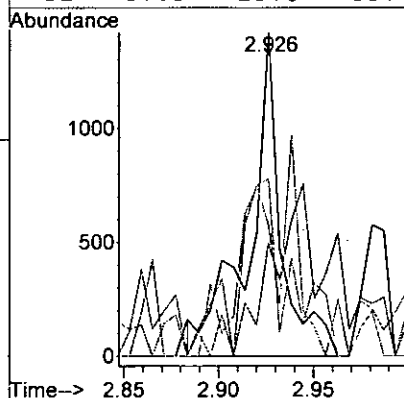
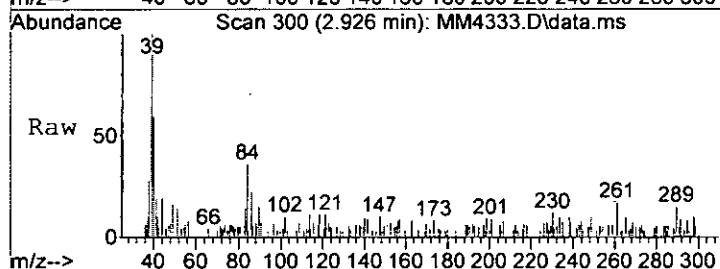
Tgt Ion: 101 Resp: 20897
Ion Ratio Lower Upper
101 100
151 88.1 61.8 101.8





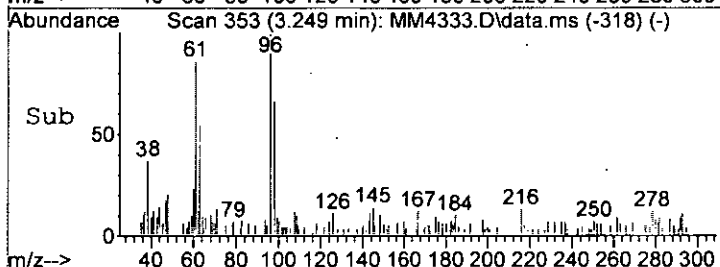
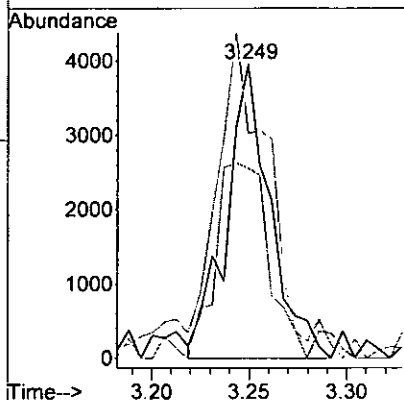
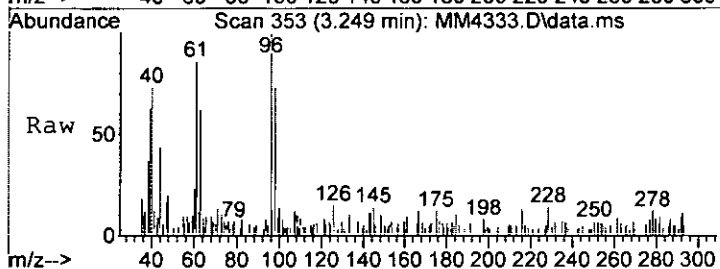
#22
Methylene Chloride
Concen: 0.25 ppb m
RT: 2.926 min Scan# 300
Delta R.T. 0.006 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

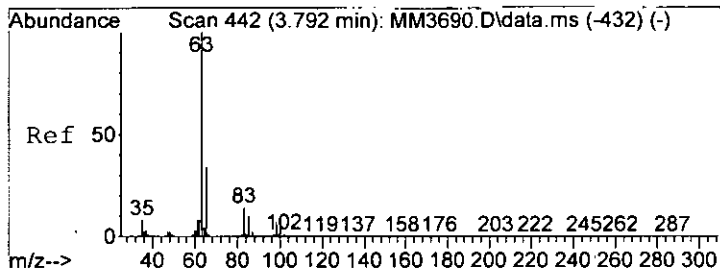
Tgt Ion:	84	Resp:	1657
Ion	Ratio	Lower	Upper
84	100		
86	59.6	41.7	81.7
49	44.2	92.0	132.0#
51	37.9	15.8	55.8



#26
trans-1,2-Dichloroethene
Concen: 0.88 ppb
RT: 3.249 min Scan# 353
Delta R.T. 0.006 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

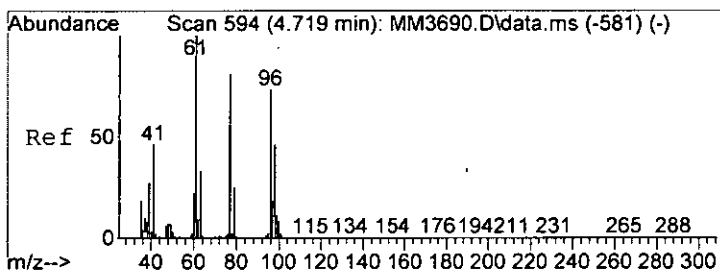
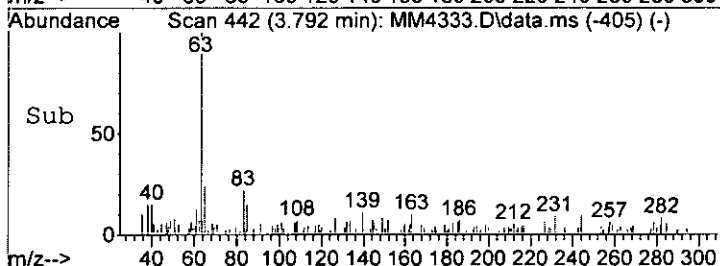
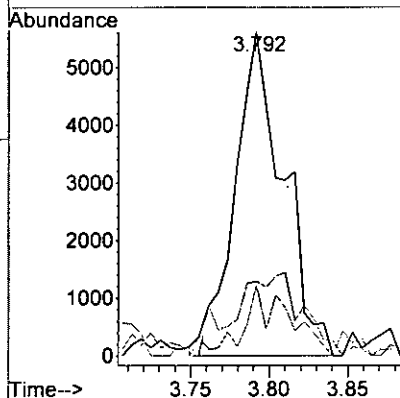
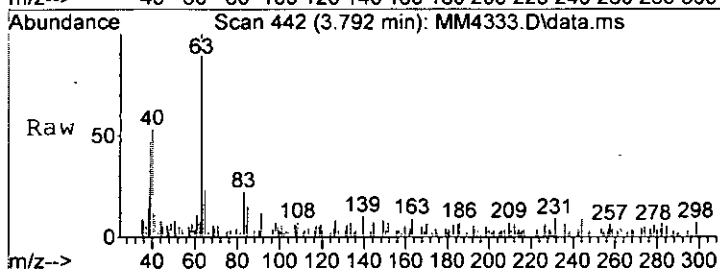
Tgt Ion:	96	Resp:	6137
Ion	Ratio	Lower	Upper
96	100		
98	64.5	44.2	84.2
61	76.4	116.9	156.9#





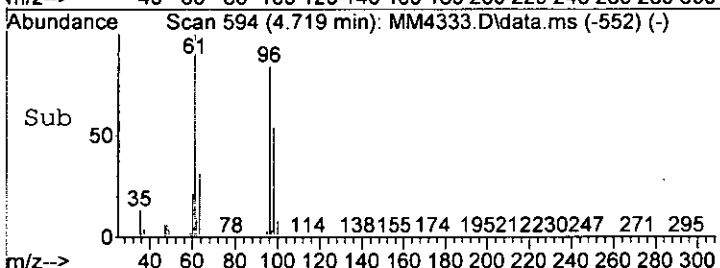
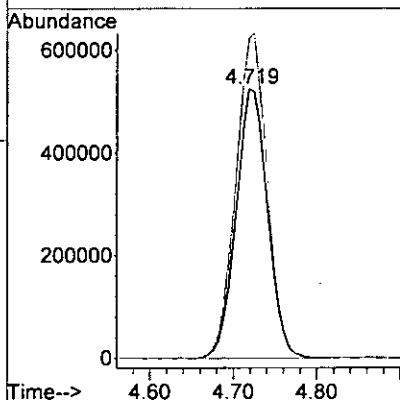
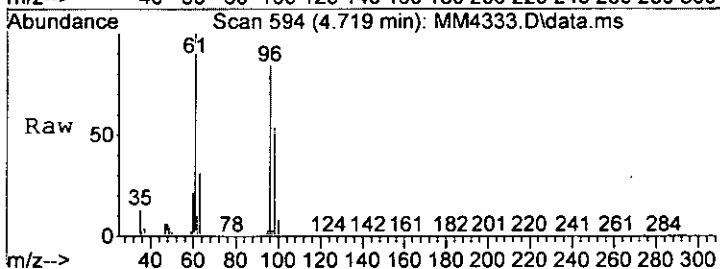
#28
1,1-Dichloroethane
Concen: 1.05 ppb m
RT: 3.792 min Scan# 442
Delta R.T. -0.000 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

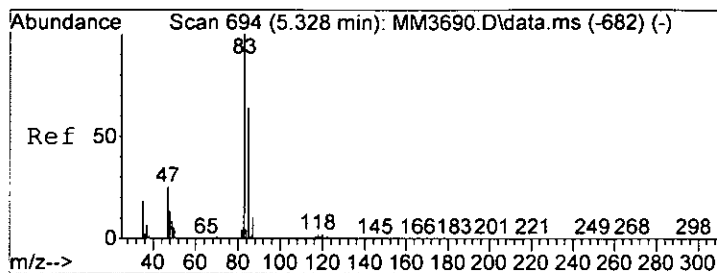
Tgt Ion: 63 Resp: 12048
Ion Ratio Lower Upper
63 100
65 23.0 13.8 53.8
83 21.8 0.0 34.1



#34
cis-1,2-Dichloroethene
Concen: 186.04 ppb
RT: 4.719 min Scan# 594
Delta R.T. -0.000 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

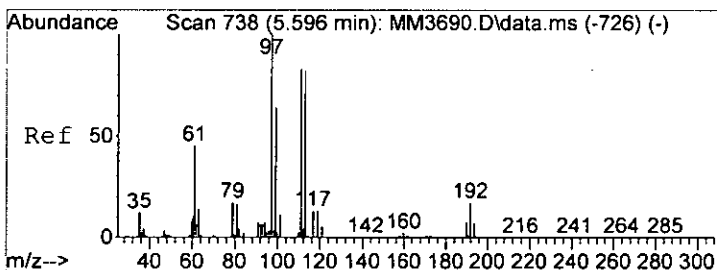
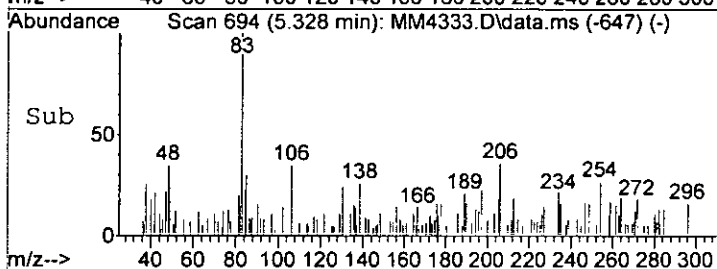
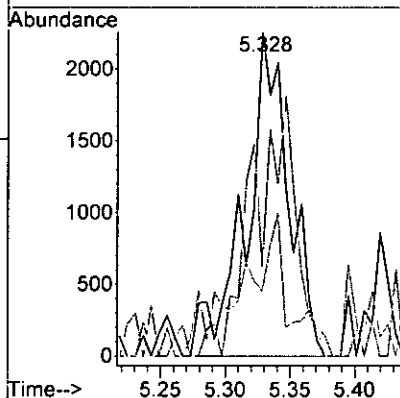
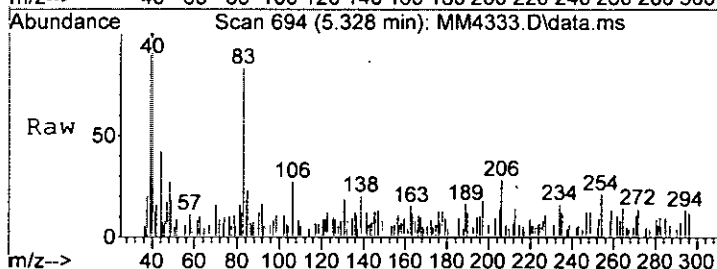
Tgt Ion: 96 Resp: 1377890
Ion Ratio Lower Upper
96 100
61 118.7 117.6 157.6





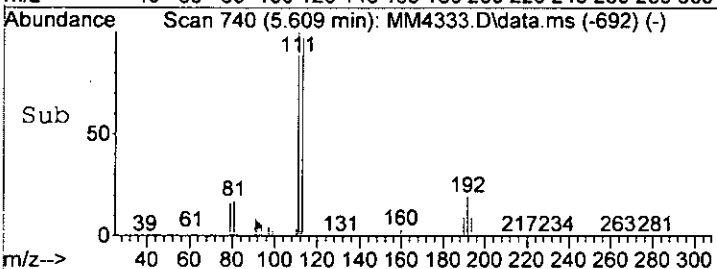
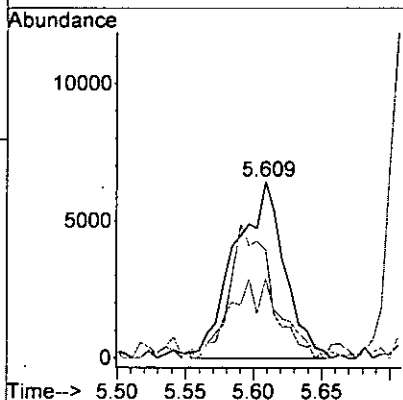
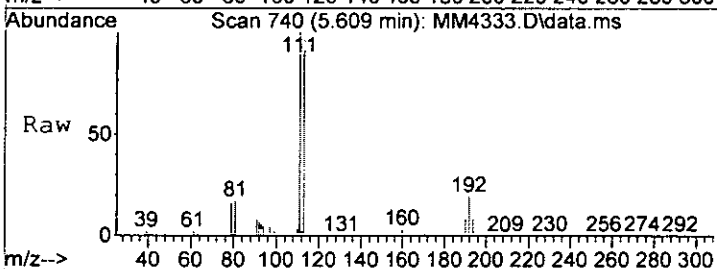
#40
Chloroform
Concen: 0.43 ppb m
RT: 5.328 min Scan# 694
Delta R.T. -0.000 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

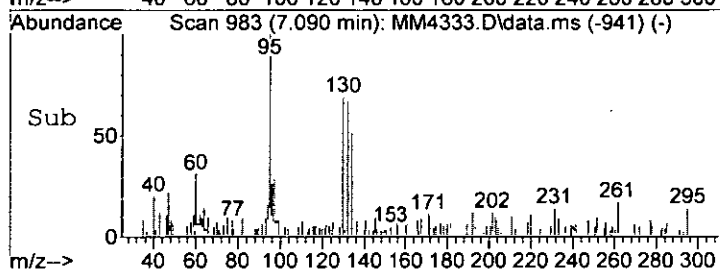
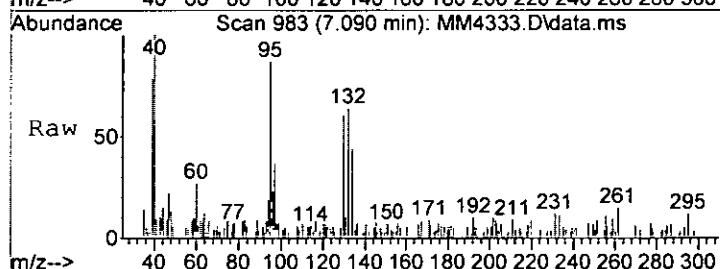
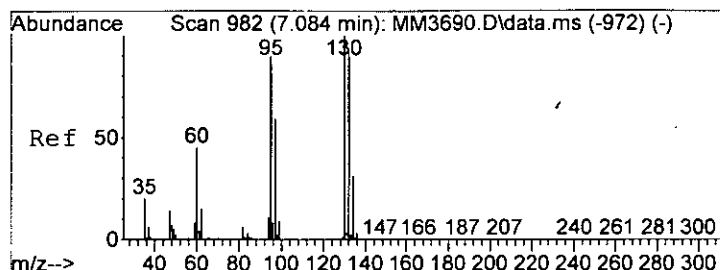
Tgt Ion: 83 Resp: 5166
Ion Ratio Lower Upper
83 100
85 27.6 43.8 83.8#
47 20.1 4.7 44.7



#41
1,1,1-Trichloroethane
Concen: 1.38 ppb m
RT: 5.609 min Scan# 740
Delta R.T. 0.012 min
Lab File: MM4333.D
Acq: 28 Jun 2015 6:04 pm

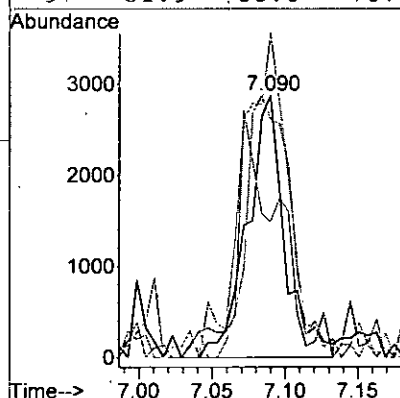
Tgt Ion: 97 Resp: 16108
Ion Ratio Lower Upper
97 100
99 61.2 43.8 83.8
61 44.8 25.3 65.3





#54
 Trichloroethene
 Concen: 0.65 ppb
 RT: 7.090 min Scan# 983
 Delta R.T. 0.006 min
 Lab File: MM4333.D
 Acq: 28 Jun 2015 6:04 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	90.9	72.7	112.7
95	123.6	69.8	109.8#
97	51.9	38.8	78.8



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 11:25
Date Received: 6/20/15
Date Analyzed: 6/29/15 18:42

Sample Name: BAT-EW-5-150619
Lab Code: R1504946-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	5.0 U	5.0	1.1	
75-01-4	Vinyl Chloride	500	5.0	1.6	
75-00-3	Chloroethane	5.0 U	5.0	1.2	
74-83-9	Bromomethane	5.0 U	5.0	1.5	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	2.9	
67-64-1	Acetone	25 U	25	6.2	
75-15-0	Carbon Disulfide	5.0 U	5.0	1.1	
75-09-2	Methylene Chloride	5.0 U	5.0	3.0	
156-60-5	trans-1,2-Dichloroethene	4.3 J	5.0	1.7	
75-34-3	1,1-Dichloroethane	5.2	5.0	1.0	
156-59-2	cis-1,2-Dichloroethene	450	5.0	1.5	
78-93-3	2-Butanone (MEK)	25 U	25	4.1	
67-66-3	Chloroform	2.8 J	5.0	1.3	
71-55-6	1,1,1-Trichloroethane	4.2 J	5.0	1.8	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	2.3	
71-43-2	Benzene	5.0 U	5.0	1.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	1.8	
79-01-6	Trichloroethene	2.4 J	5.0	1.1	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	1.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	1.6	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	1.2	
108-10-1	4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	
108-88-3	Toluene	5.0 U	5.0	1.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	1.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	1.8	
127-18-4	Tetrachloroethene	5.0 U	5.0	1.5	
591-78-6	2-Hexanone	25 U	25	8.3	
124-48-1	Dibromochloromethane	5.0 U	5.0	1.6	
108-90-7	Chlorobenzene	5.0 U	5.0	1.5	
100-41-4	Ethylbenzene	5.0 U	5.0	1.0	
179601-23-1	m,p-Xylenes	10 U	10	1.7	
95-47-6	o-Xylene	5.0 U	5.0	1.0	
100-42-5	Styrene	5.0 U	5.0	1.0	
75-25-2	Bromoform	5.0 U	5.0	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1125
Date Received: 6/20/15
Date Analyzed: 6/29/15 18:42

Sample Name: BAT-EW-5-150619
Lab Code: R1504946-004

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4360.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 5

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	109	85-122	6/29/15 18:42	
Toluene-d8	106	87-121	6/29/15 18:42	
Dibromofluoromethane	106	89-119	6/29/15 18:42	

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4360.D
 Acq On : 29 Jun 2015 6:42 pm
 Operator : K.Ruest
 Sample : R1504946-004|5.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 30 14:50:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.743	168	834865	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1442005	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1402489	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	735648	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.596	113	415516	53.25	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	106.50%	
48) surr1,1,2-dichloroetha...	6.096	65	432624	51.90	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	103.80%	
65) SURR3,Toluene-d8	8.529	98	1813130	53.20	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	106.40%	
70) SURR2,BFB	11.053	95	706580	54.57	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	109.14%	
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.433	62	878064	100.36	ppb	99
7) Freon 21	1.926	67	24519	1.69	ppb	90
8) Trichlorofluoromethane	1.975	101	2981	0.23	ppb	# 64
10) Freon 123a	2.237	67	12981	1.40	ppb	92
13) 1,1-Dicethene	2.438	96	1866	0.30	ppb	# 34
14) Freon 113	2.438	101	13555	2.23	ppb	94
26) trans-1,2-Dichloroethene	3.255	96	5836	0.85	ppb	# 64
28) 1,1-Dicethane	3.792	63	11705	1.03	ppb	84
34) cis-1,2-Dichloroethene	4.719	96	664616	90.88	ppb	86
40) Chloroform	5.328	83	6691m	0.56	ppb	
41) 1,1,1-Trichloroethane	5.596	97	9608	0.84	ppb	92
54) Trichloroethene	7.096	130	3637m	0.47	ppb	

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

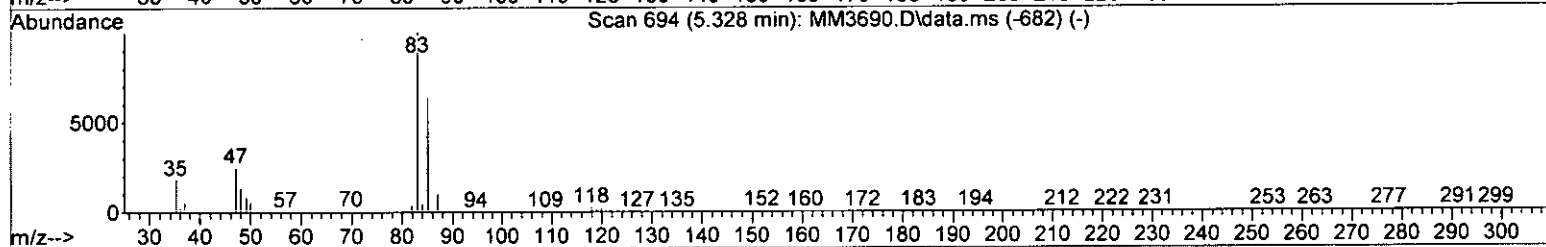
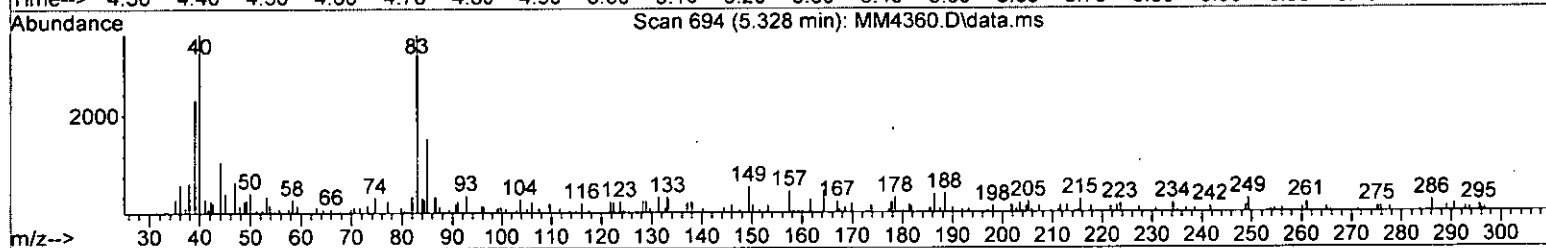
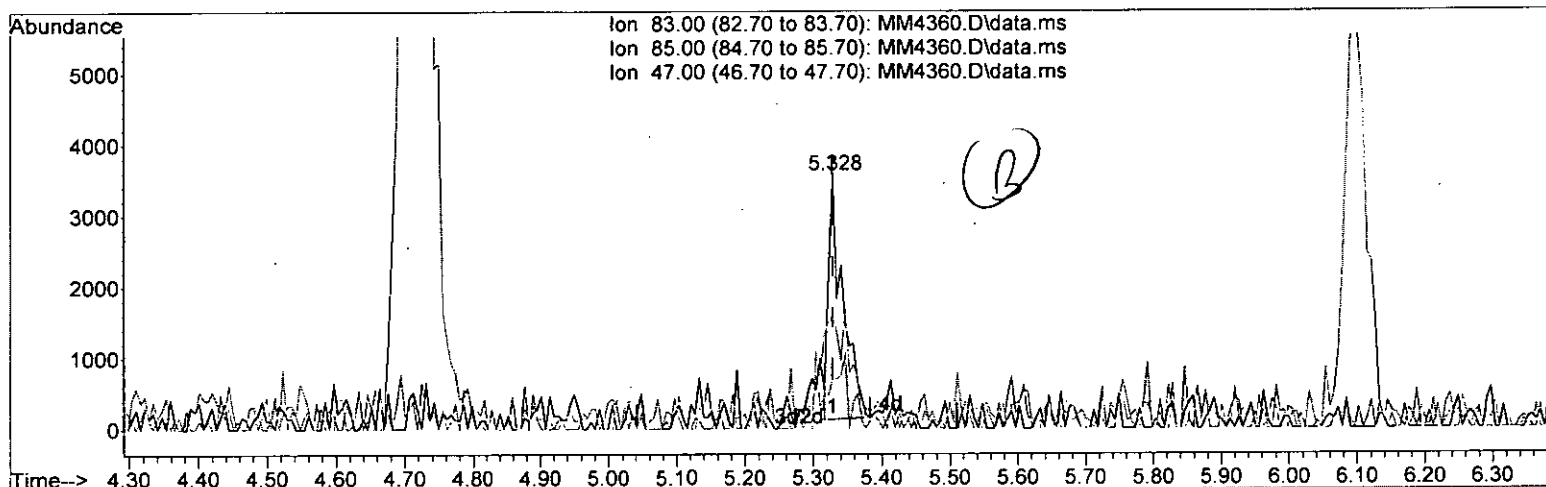
148
6/30/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4360.D
 Acq On : 29 Jun 2015 6:42 pm
 Operator : K.Ruest
 Sample : R1504946-004|5.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 18:58:35 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4360.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.42 ppb

response 4990

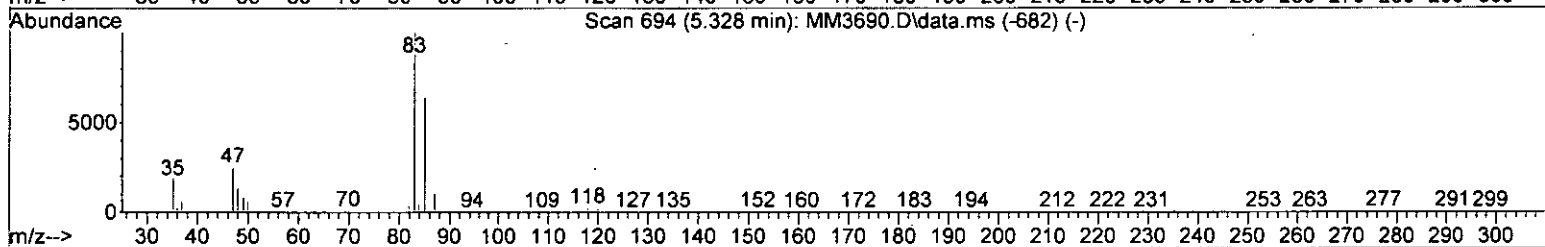
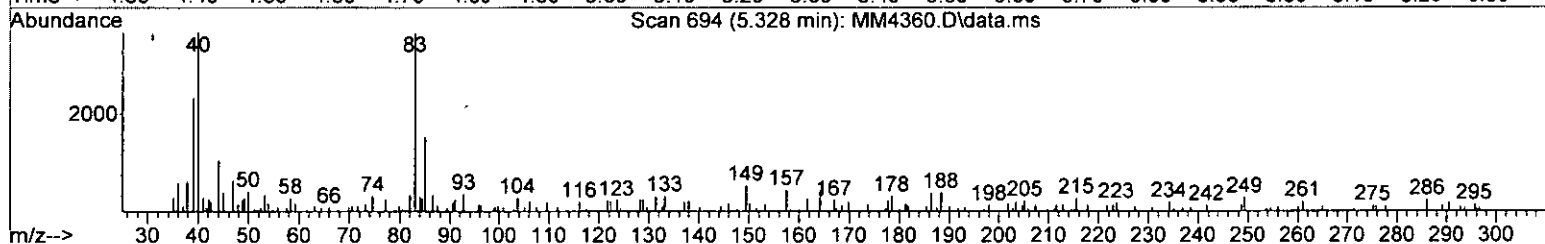
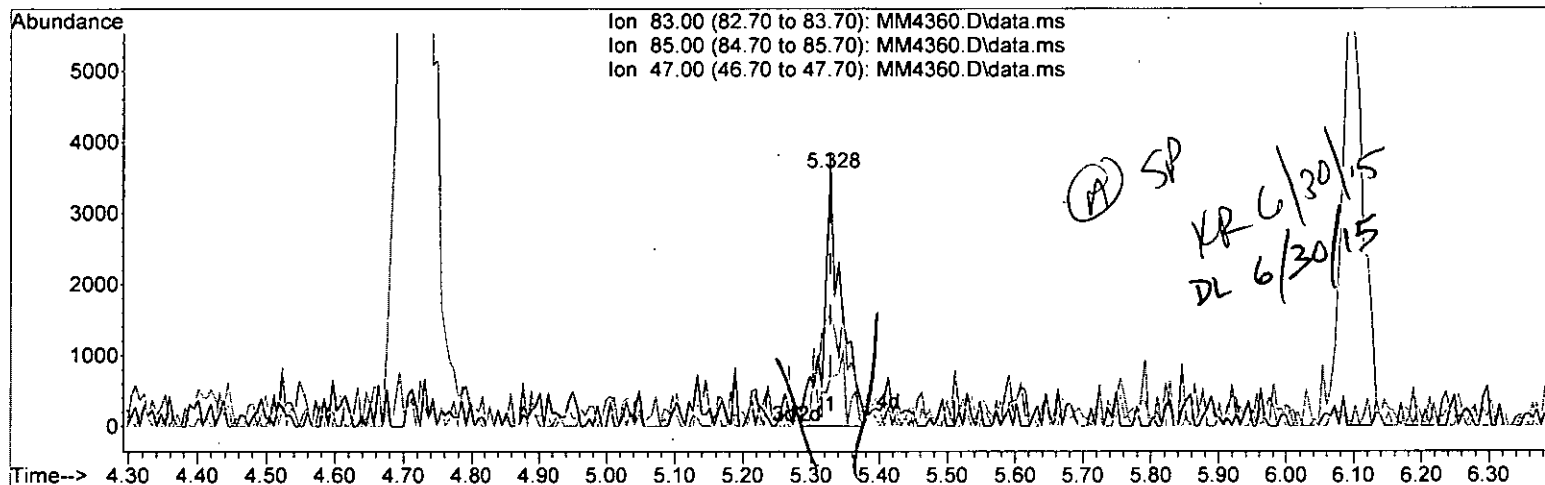
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	43.37#
47.00	24.70	19.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4360.D
 Acq On : 29 Jun 2015 6:42 pm
 Operator : K.Ruest
 Sample : R1504946-004|5.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 18:58:35 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4360.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.56 ppb m

response 6691

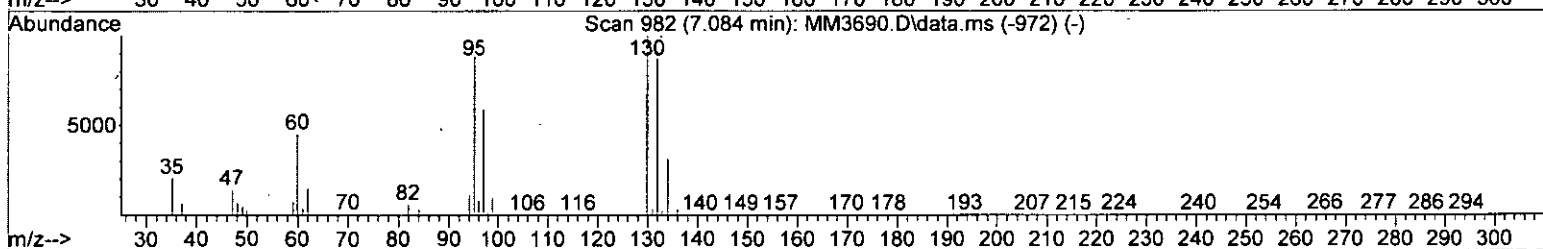
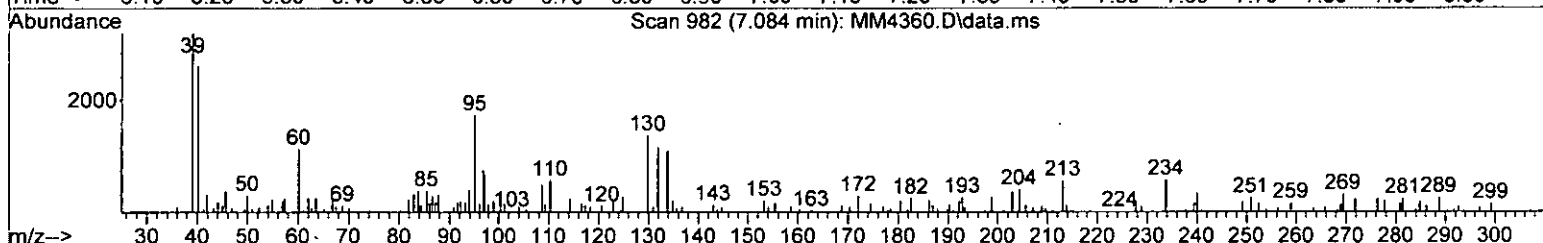
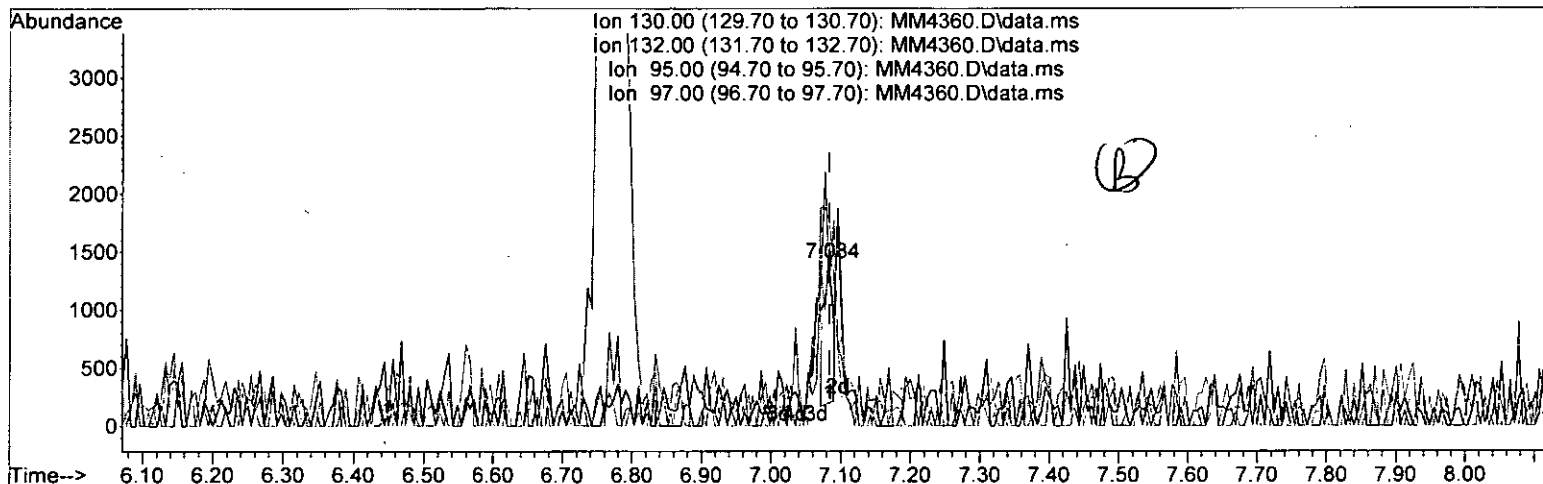
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	43.37#
47.00	24.70	19.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4360.D
 Acq On : 29 Jun 2015 6:42 pm
 Operator : K.Ruest
 Sample : R1504946-004|5.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 18:58:35 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4360.D\data.ms

(54) Trichloroethene (P)

7.084min (-0.000) 0.13 ppb

response 1019

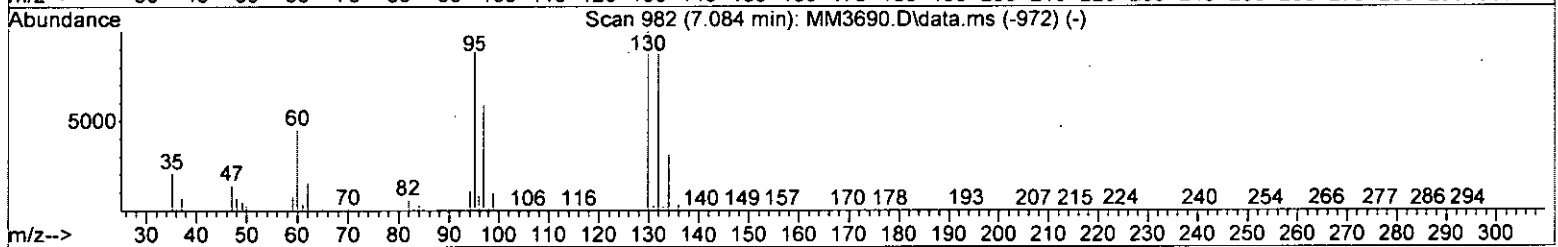
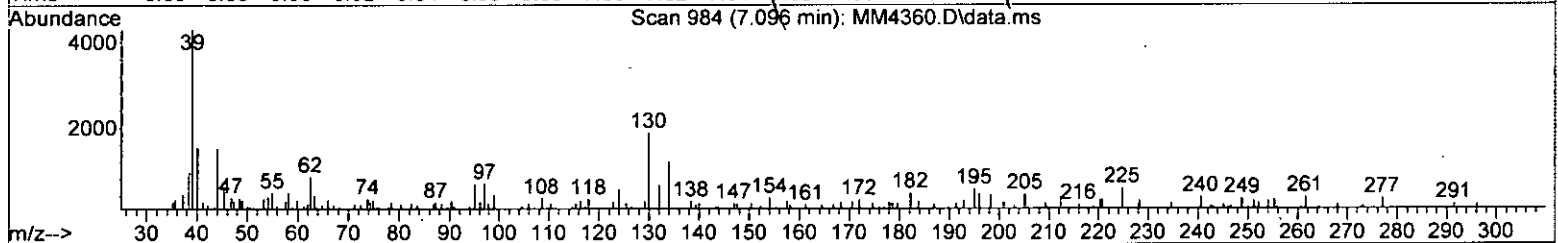
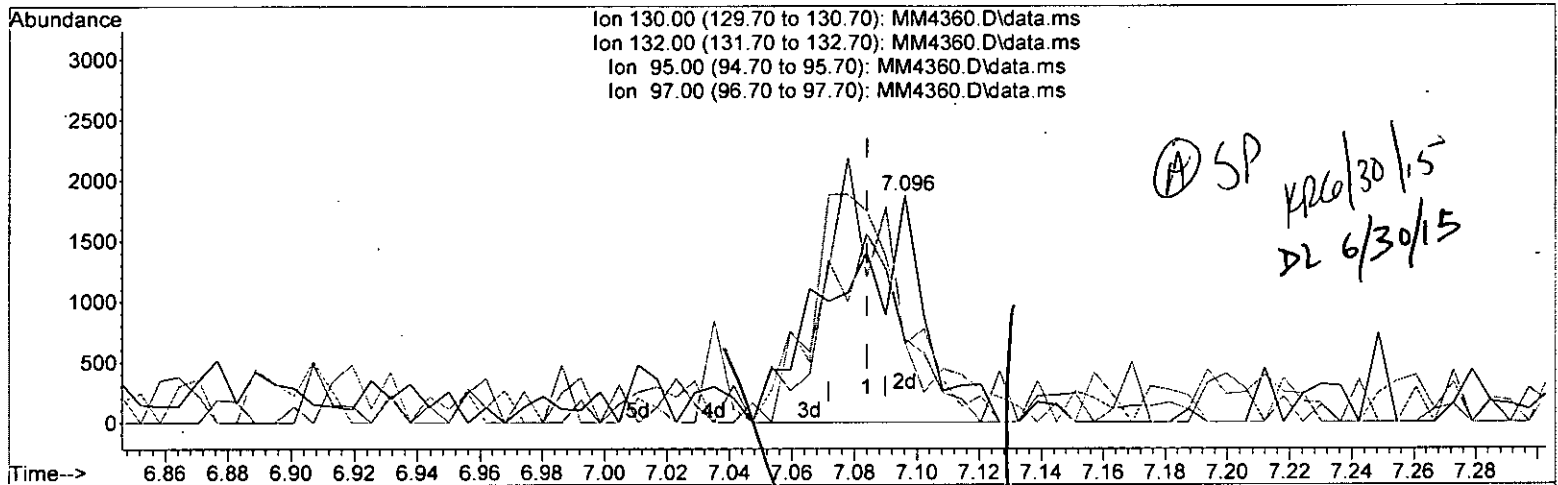
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	85.52
95.00	89.80	124.25#
97.00	58.80	110.98#

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4360.D
 Acq On : 29 Jun 2015 6:42 pm
 Operator : K.Ruest
 Sample : R1504946-004|5.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 18:58:35 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4360.D\data.ms

(54) Trichloroethene (P)

7.096min (+0.012) 0.47 ppb m

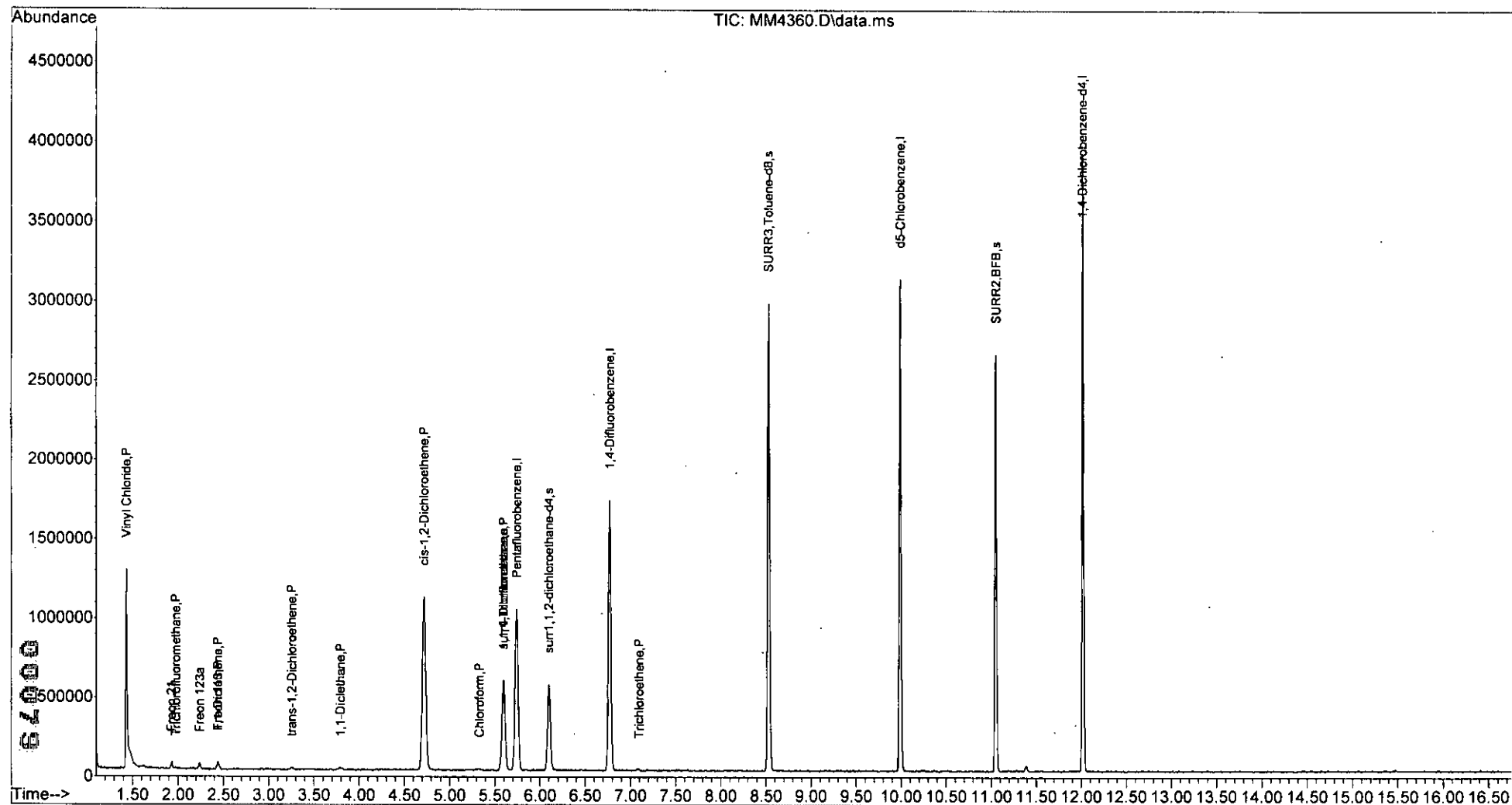
response 3637

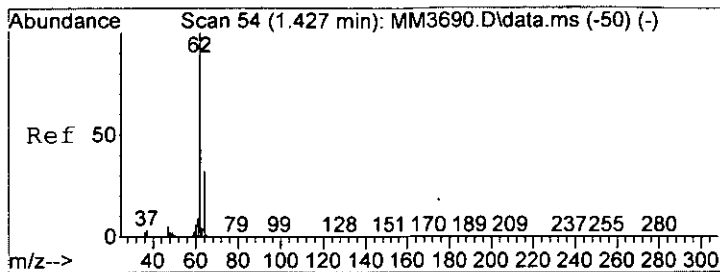
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	34.56#
95.00	89.80	35.42#
97.00	58.80	36.54#

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4360.D
Acq On : 29 Jun 2015 6:42 pm
Operator : K.Ruest
Sample : R1504946-004|5.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 30 14:50:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





#4

Vinyl Chloride

Concen: 100.36 ppb

RT: 1.433 min Scan# 55

Delta R.T. 0.006 min

Lab File: MM4360.D

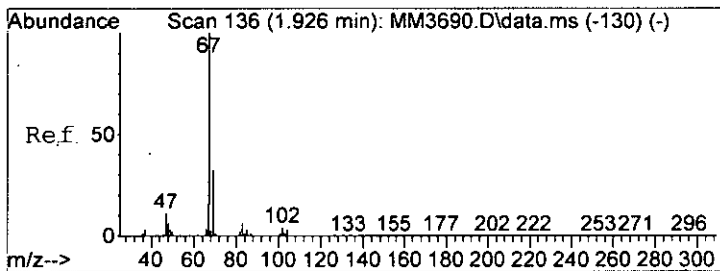
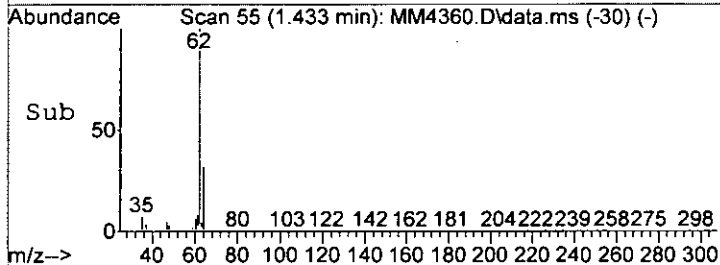
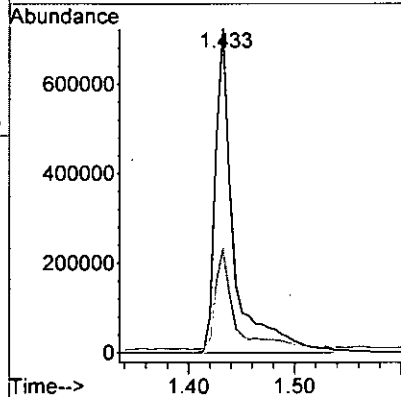
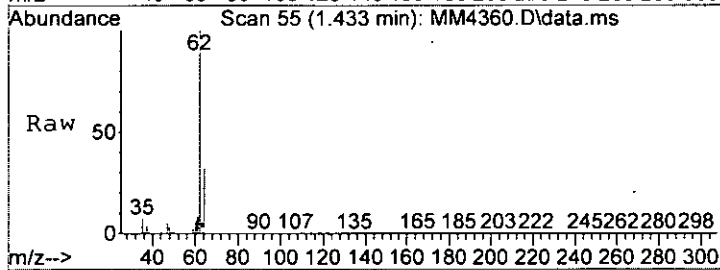
Acq: 29 Jun 2015 6:42 pm

Tgt Ion: 62 Resp: 878064

Ion Ratio Lower Upper

62 100

64 32.2 11.5 51.5



#7

Freon 21

Concen: 1.69 ppb

RT: 1.926 min Scan# 136

Delta R.T. 0.006 min

Lab File: MM4360.D

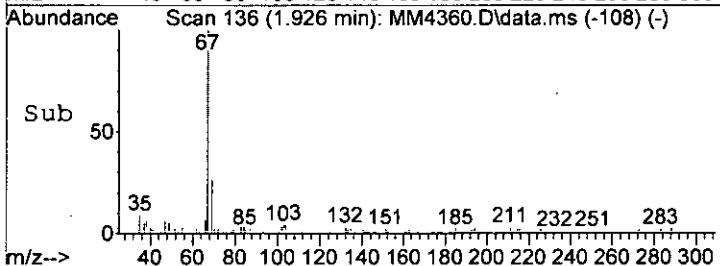
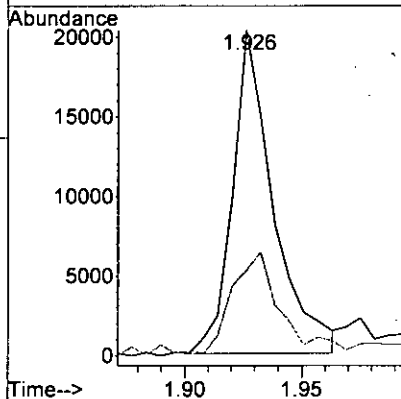
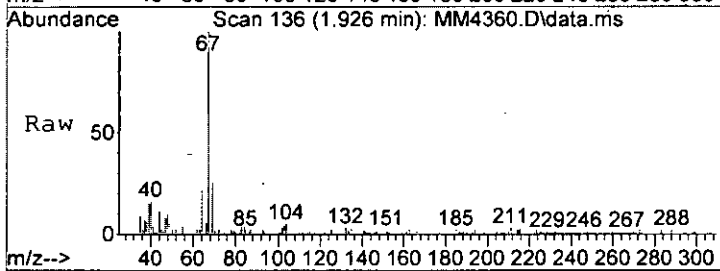
Acq: 29 Jun 2015 6:42 pm

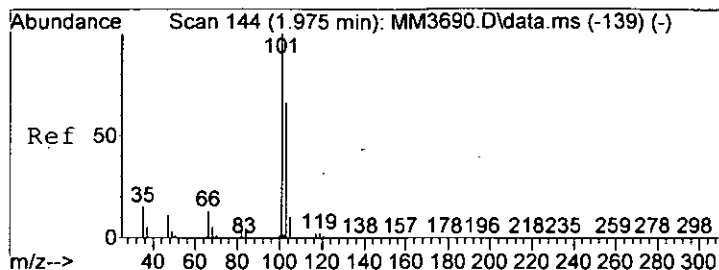
Tgt Ion: 67 Resp: 24519

Ion Ratio Lower Upper

67 100

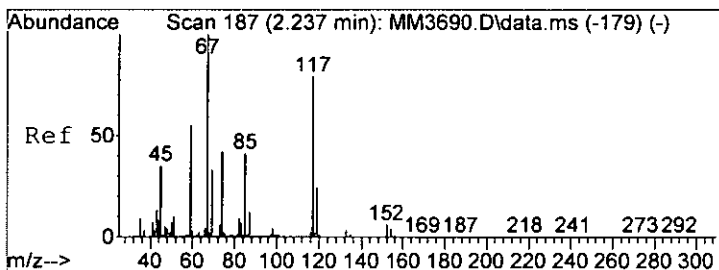
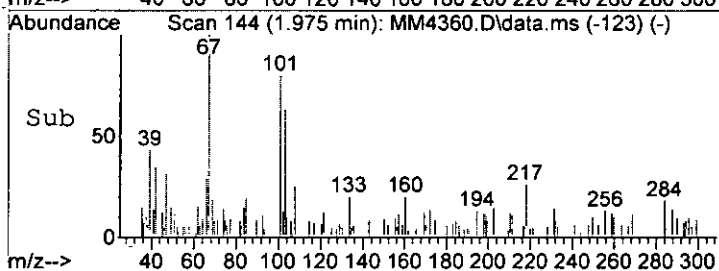
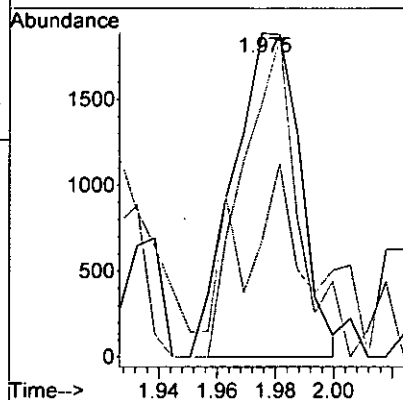
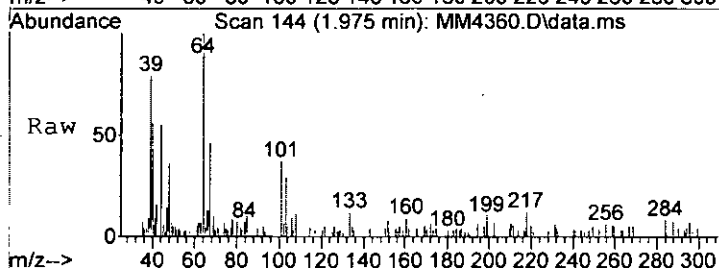
69 26.1 11.9 51.9





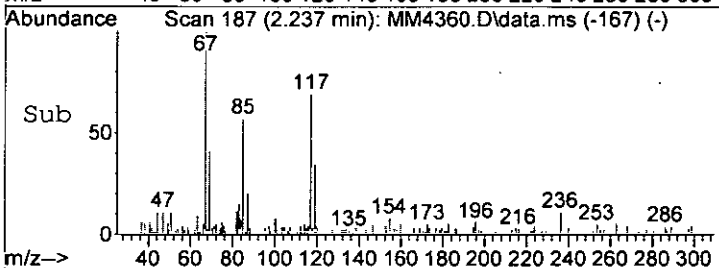
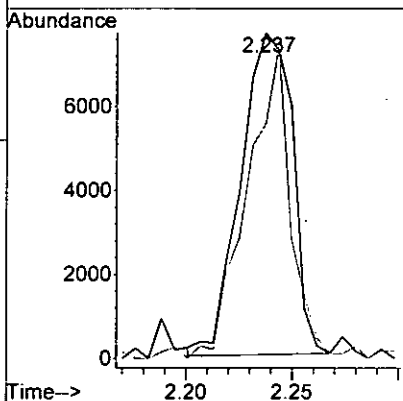
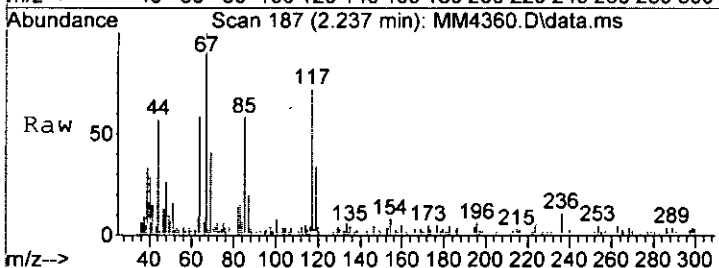
#8
Trichlorofluoromethane
Concen: 0.23 ppb
RT: 1.975 min Scan# 144
Delta R.T. 0.006 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

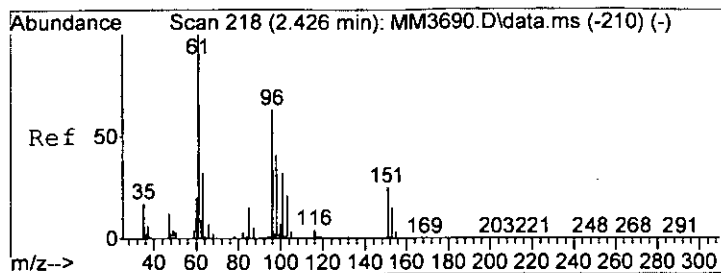
Tgt Ion: 101 Resp: 2981
Ion Ratio Lower Upper
101 100
103 90.8 45.9 85.9#
66 35.6 0.0 33.1#



#10
Freon 123a
Concen: 1.40 ppb
RT: 2.237 min Scan# 187
Delta R.T. 0.006 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

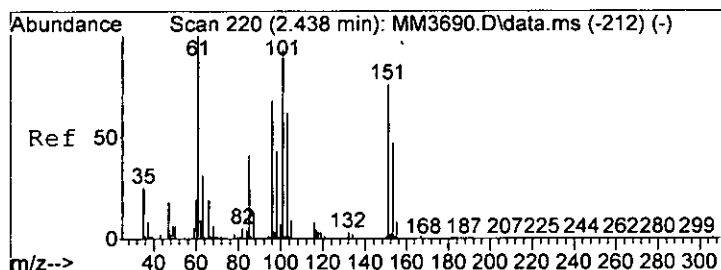
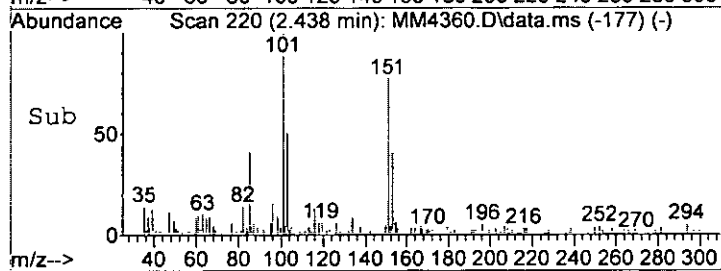
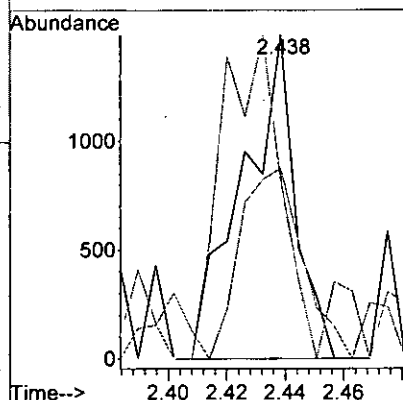
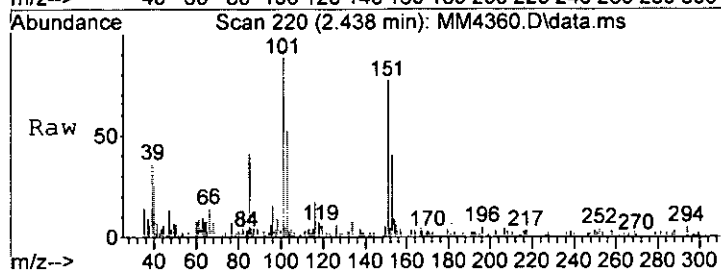
Tgt Ion: 67 Resp: 12981
Ion Ratio Lower Upper
67 100
117 72.0 59.0 99.0





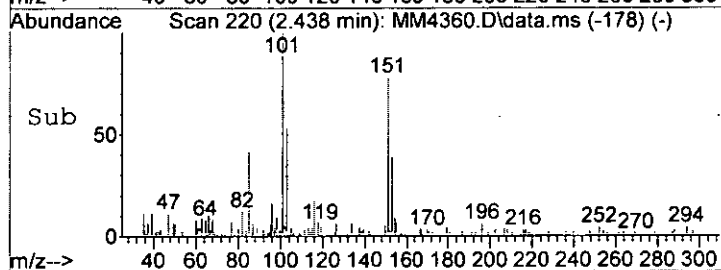
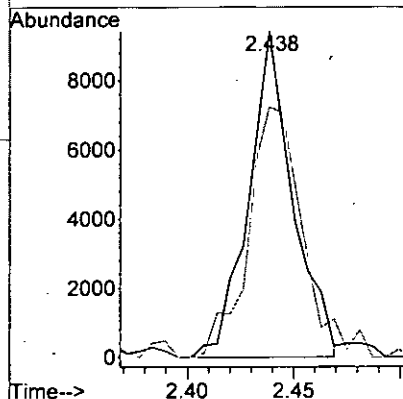
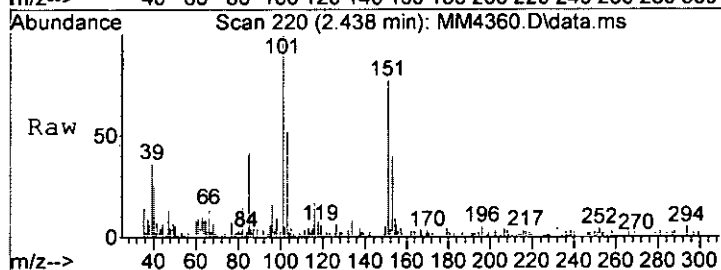
#13
1,1-Dicloroethene
Concen: 0.30 ppb
RT: 2.438 min Scan# 220
Delta R.T. 0.012 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

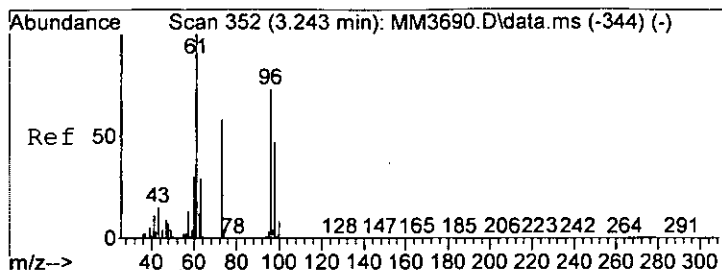
Tgt Ion: 96 Resp: 1866
Ion Ratio Lower Upper
96 100
98 50.3 45.2 85.2
61 47.4 139.4 179.4#



#14
Freon 113
Concen: 2.23 ppb
RT: 2.438 min Scan# 220
Delta R.T. -0.000 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

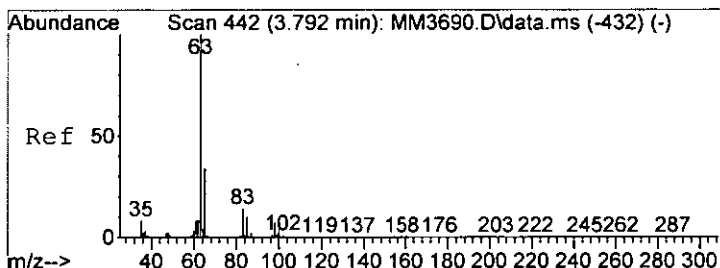
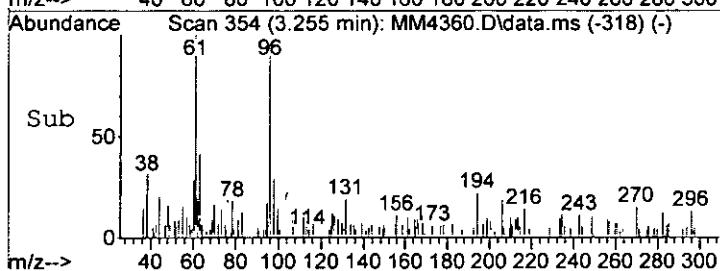
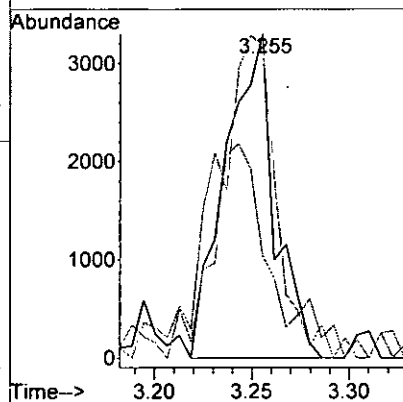
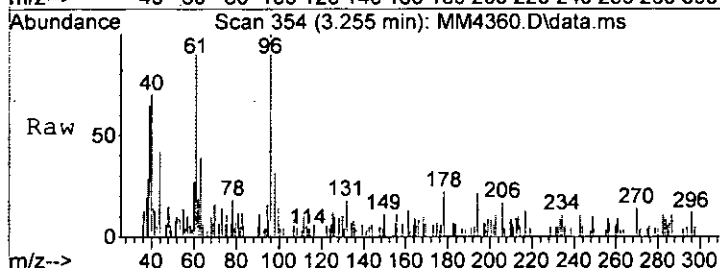
Tgt Ion: 101 Resp: 13555
Ion Ratio Lower Upper
101 100
151 76.9 61.8 101.8





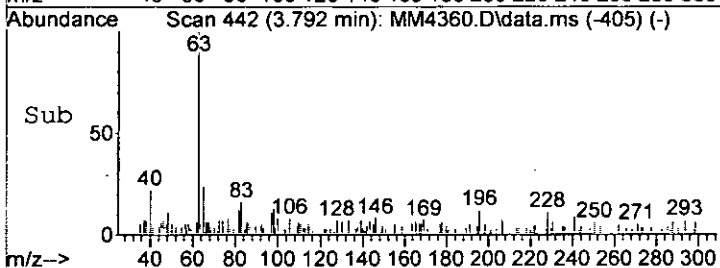
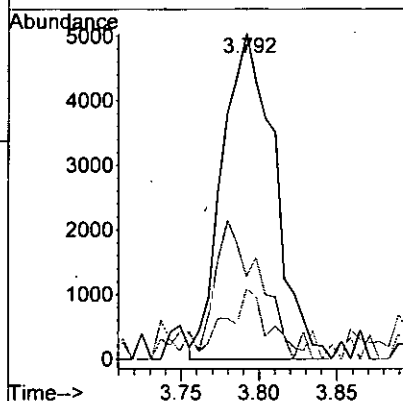
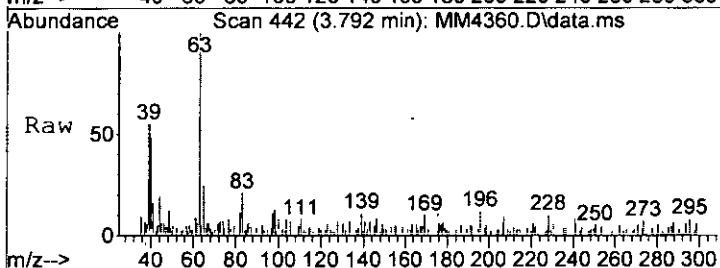
#26
trans-1,2-Dichloroethene
Concen: 0.85 ppb
RT: 3.255 min Scan# 354
Delta R.T. 0.012 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

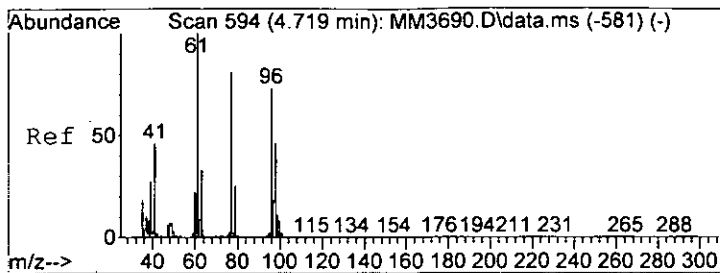
Tgt Ion: 96 Resp: 5836
Ion Ratio Lower Upper
96 100
98 31.5 44.2 84.2#
61 96.4 116.9 156.9#



#28
1,1-Dichloroethane
Concen: 1.03 ppb
RT: 3.792 min Scan# 442
Delta R.T. -0.000 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

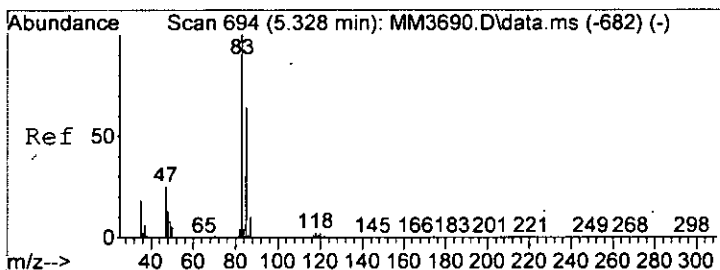
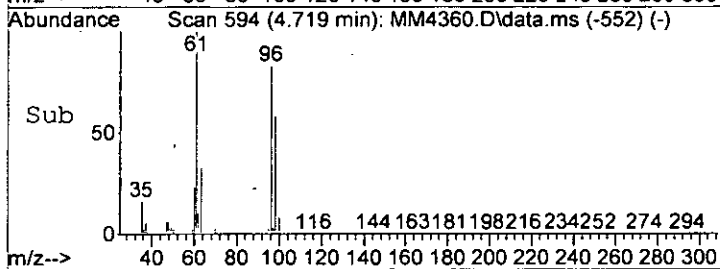
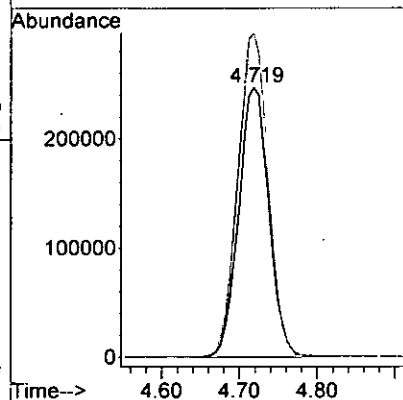
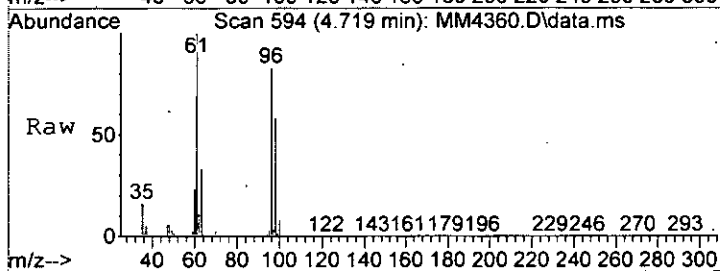
Tgt Ion: 63 Resp: 11705
Ion Ratio Lower Upper
63 100
65 25.4 13.8 53.8
83 21.4 0.0 34.1





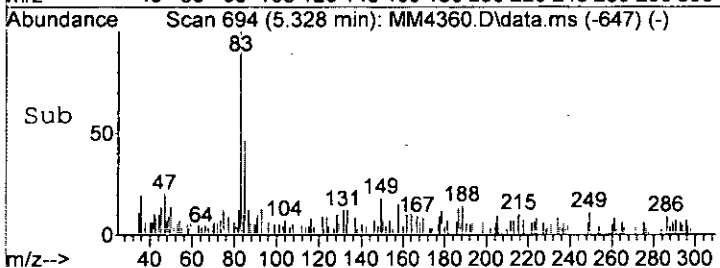
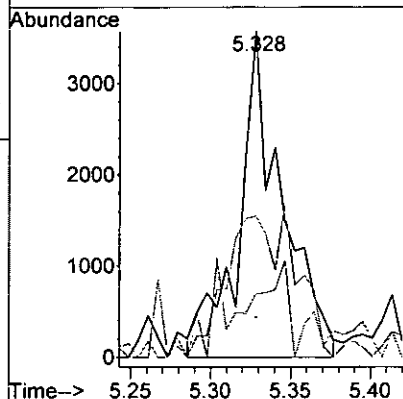
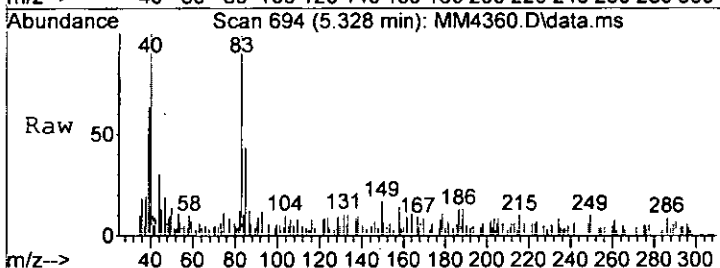
#34
 cis-1,2-Dichloroethene
 Concen: 90.88 ppb
 RT: 4.719 min Scan# 594
 Delta R.T. -0.000 min
 Lab File: MM4360.D
 Acq: 29 Jun 2015 6:42 pm

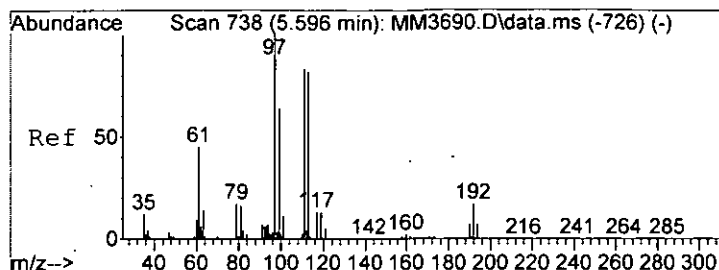
Tgt Ion: 96 Resp: 664616
 Ion Ratio Lower Upper
 96 100
 61 120.1 117.6 157.6



#40
 Chloroform
 Concen: 0.56 ppb m
 RT: 5.328 min Scan# 694
 Delta R.T. -0.000 min
 Lab File: MM4360.D
 Acq: 29 Jun 2015 6:42 pm

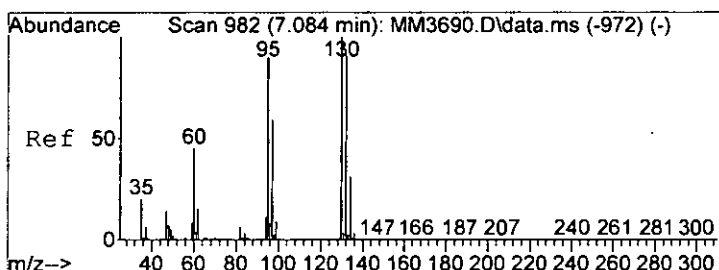
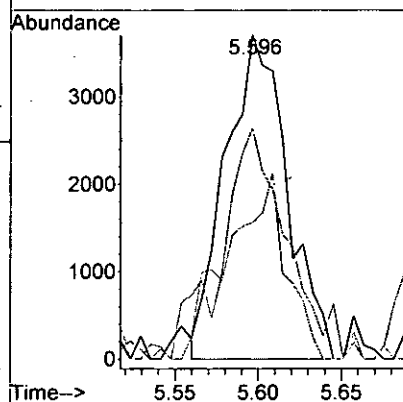
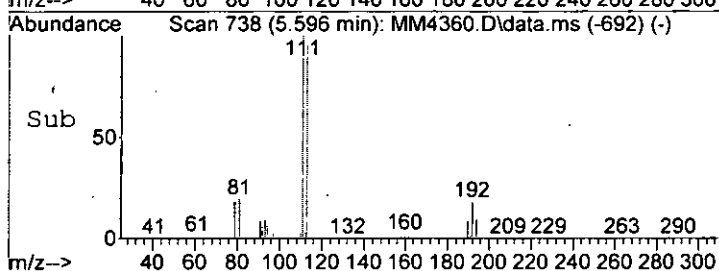
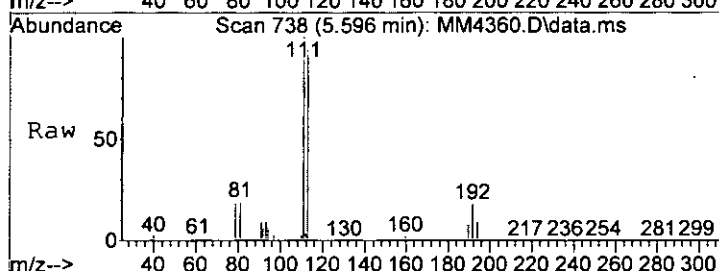
Tgt Ion: 83 Resp: 6691
 Ion Ratio Lower Upper
 83 100
 85 43.4 43.8 83.8#
 47 19.4 4.7 44.7





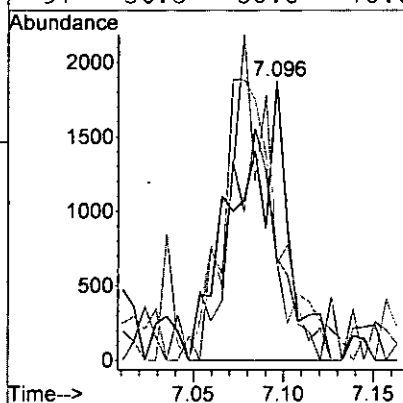
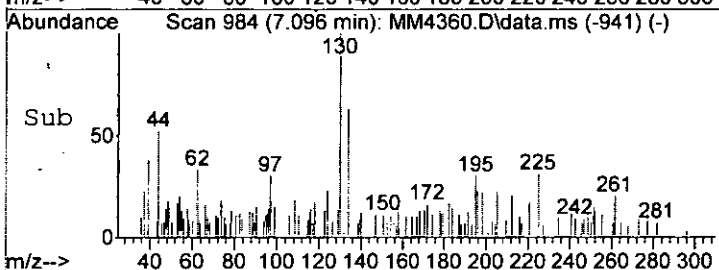
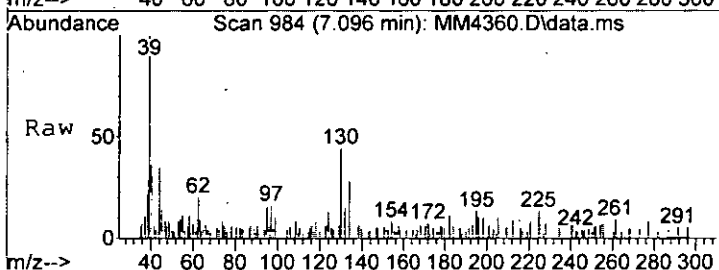
#41
1,1,1-Trichloroethane
Concen: 0.84 ppb
RT: 5.596 min Scan# 738
Delta R.T. -0.000 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

Tgt Ion: 97 Resp: 9608
Ion Ratio Lower Upper
97 100
99 71.4 43.8 83.8
61 42.2 25.3 65.3



#54
Trichloroethene
Concen: 0.47 ppb m
RT: 7.096 min Scan# 984
Delta R.T. 0.012 min
Lab File: MM4360.D
Acq: 29 Jun 2015 6:42 pm

Tgt Ion: 130 Resp: 3637
Ion Ratio Lower Upper
130 100
132 34.6 72.7 112.7#
95 35.4 69.8 109.8#
97 36.5 38.8 78.8#



Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1150
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:02

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	0.44	J	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	0.46	J	1.0	0.33	
75-34-3	1,1-Dichloroethane	0.39	J	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	12		1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	0.25	J	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1150
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:02

Sample Name: BAT-EW-6-150619
Lab Code: R1504946-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4331.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 17:02			
Toluene-d8	108	87-121	6/28/15 17:02			
Dibromofluoromethane	108	89-119	6/28/15 17:02			

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4331.D
 Acq On : 28 Jun 2015 5:02 pm
 Operator : K.Ruest
 Sample : R1504946-005|1.0 Inst : MSVOA-12
 Misc : CB&I 13429 T4
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 29 16:07:06 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge.
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc.	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	855145	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1439933	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1417094	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	747072	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.602	113	421112	54.04	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	= 108.08%		
48) surr1,1,2-dichloroetha...	6.102	65	458014	55.03	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	= 110.06%		
65) SURR3,Toluene-d8	8.535	98	1843185	54.16	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	= 108.32%		
70) SURR2,BFB	11.053	95	701915	54.28	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	= 108.56%		
Target Compounds						
4) Vinyl Chloride	1.433	62	3956	0.44	ppb	Qvalue 94
7) Freon 21	1.926	67	11211	0.76	ppb	96
10) Freon 123a	2.237	67	4811m	0.51	ppb	
26) trans-1,2-Dichloroethene	3.243	96	3243m	0.46	ppb	
28) 1,1-Dicethane	3.792	63	4470	0.39	ppb	82
34) cis-1,2-Dichloroethene	4.725	96	91962	12.28	ppb	# 81
54) Trichloroethene	7.084	130	1949	0.25	ppb	89

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

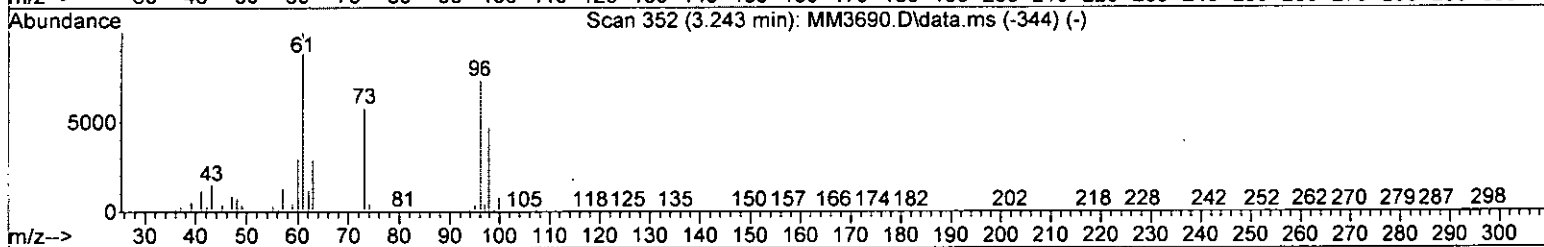
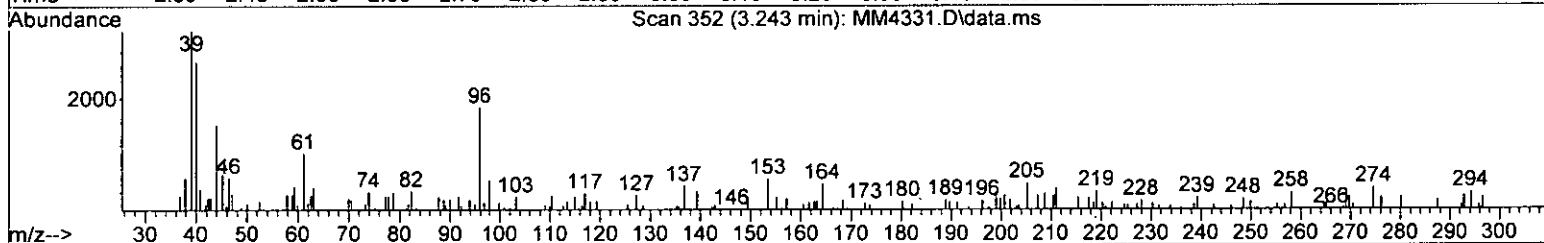
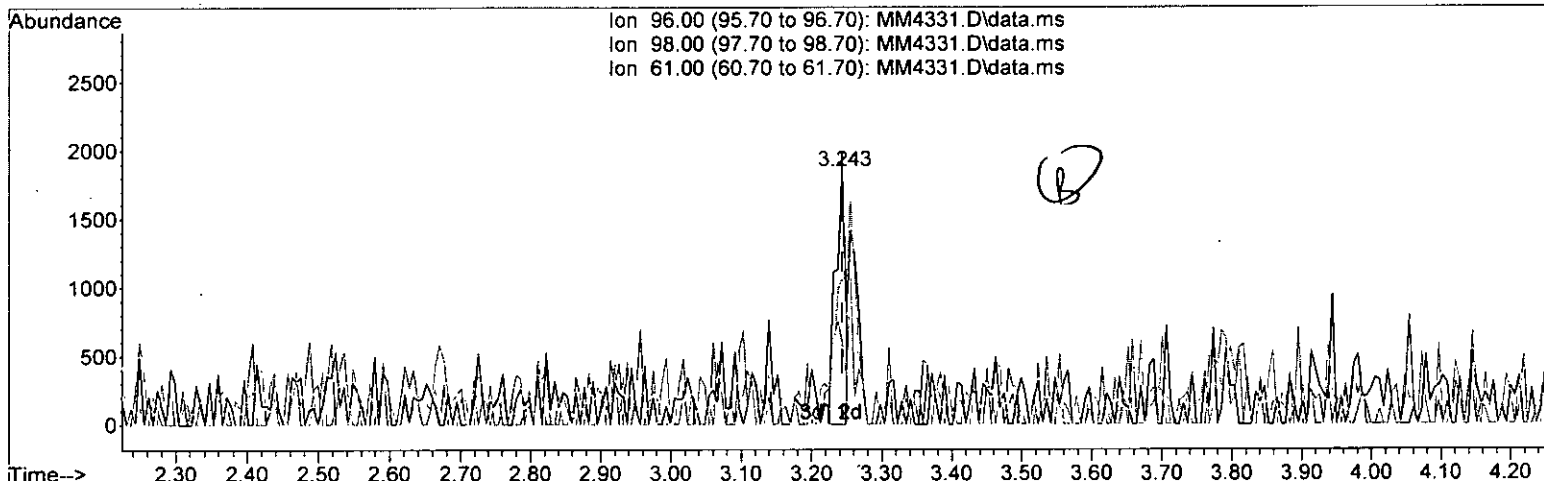
KR
6/29/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4331.D
 Acq On : 28 Jun 2015 5:02 pm
 Operator : K.Ruest
 Sample : R1504946-005|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:18:44 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4331.D\data.ms

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

3.243min (-0.000) 0.26 ppb

response 1794

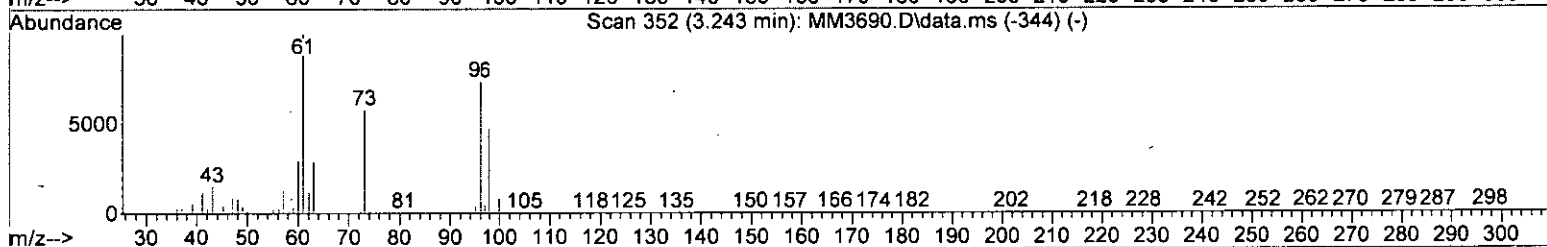
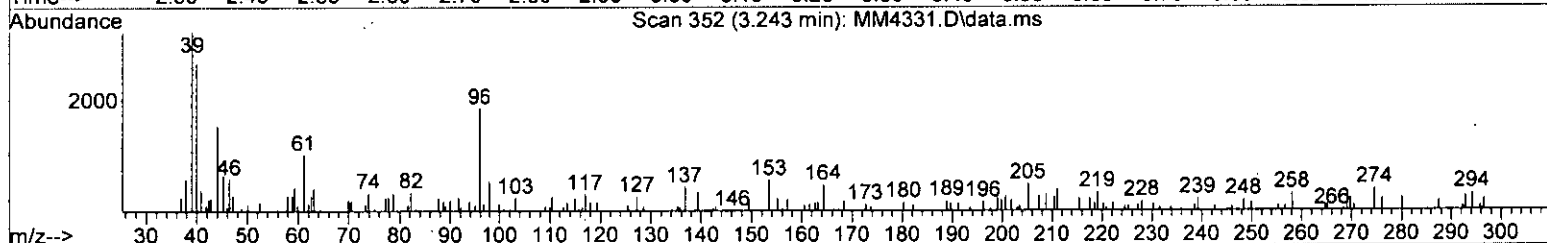
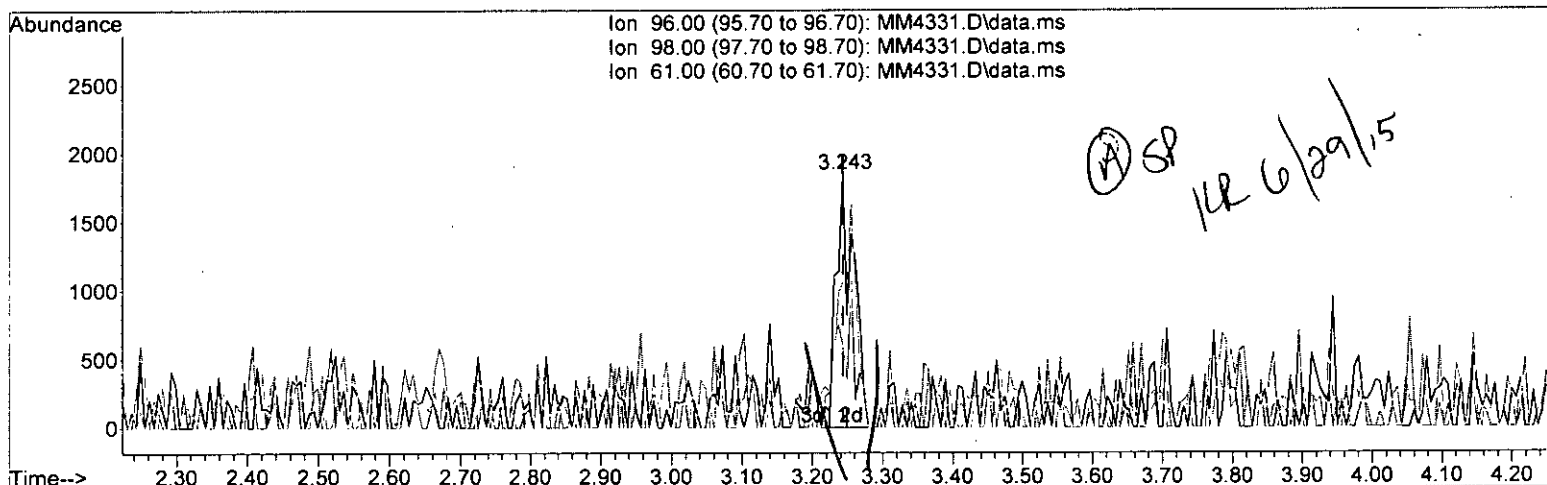
Ion	Exp%	Act%
96.00	100	100
98.00	64.20	32.09#
61.00	136.90	57.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4331.D
 Acq On : 28 Jun 2015 5:02 pm
 Operator : K.Ruest
 Sample : R1504946-005|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:18:44 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4331.D\data.ms

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

3.243min (-0.000) 0.46 ppb m

response 3243

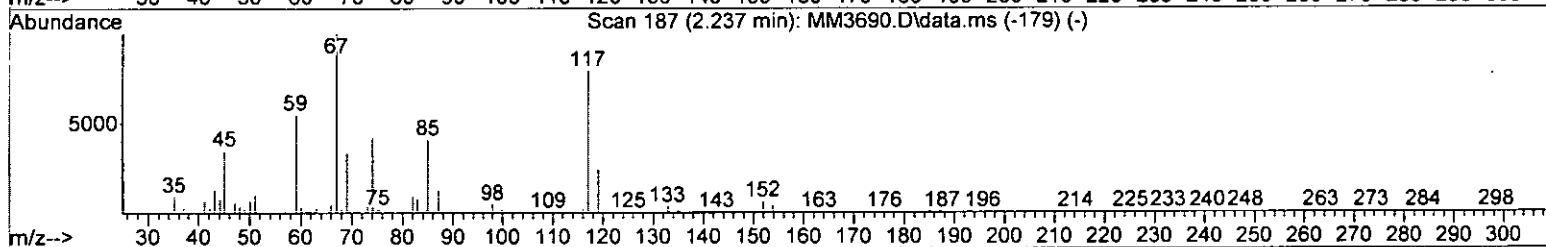
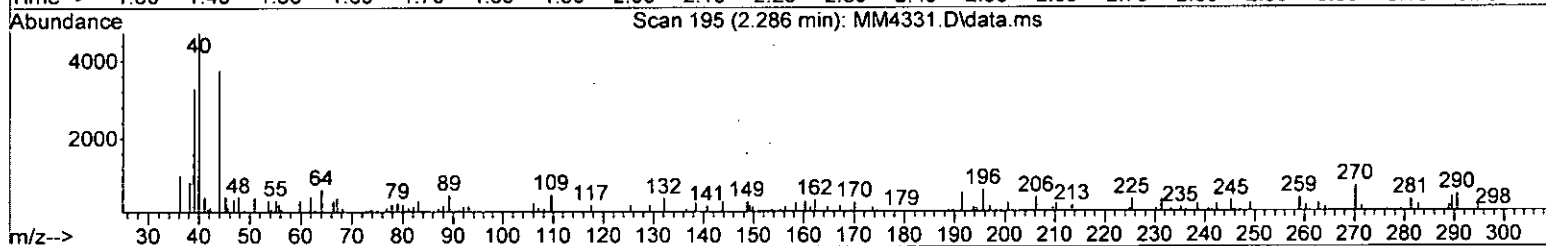
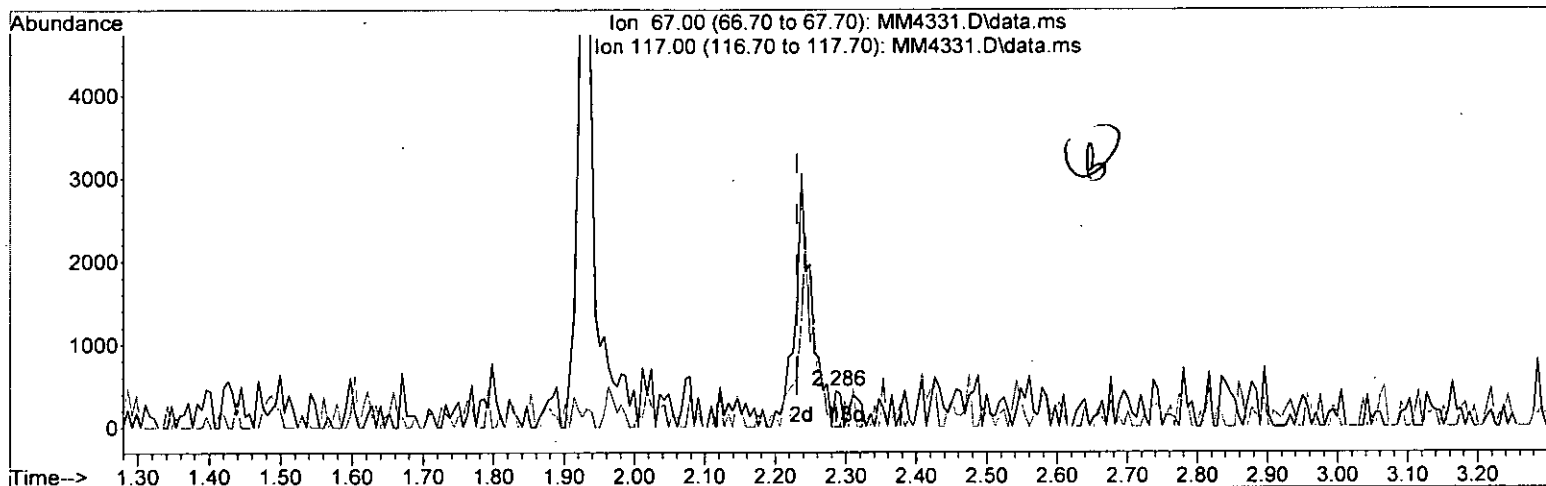
Ion	Exp%	Act%
96.00	100	100
98.00	64.20	32.09#
61.00	136.90	57.36#
0.00	0.00	0.00

mm
G/h.

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4331.D
Acq On : 28 Jun 2015 5:02 pm
Operator : K.Ruest
Sample : R1504946-005|1.0
Misc : CB&I 13429 T4
ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:18:44 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4331.D\data.ms

(10) Freon 123a

2.286min (+0.055) 0.03 ppb

response 304

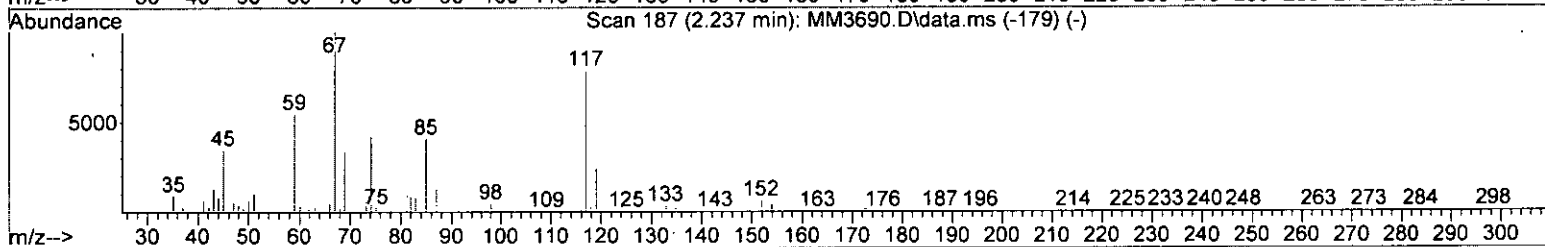
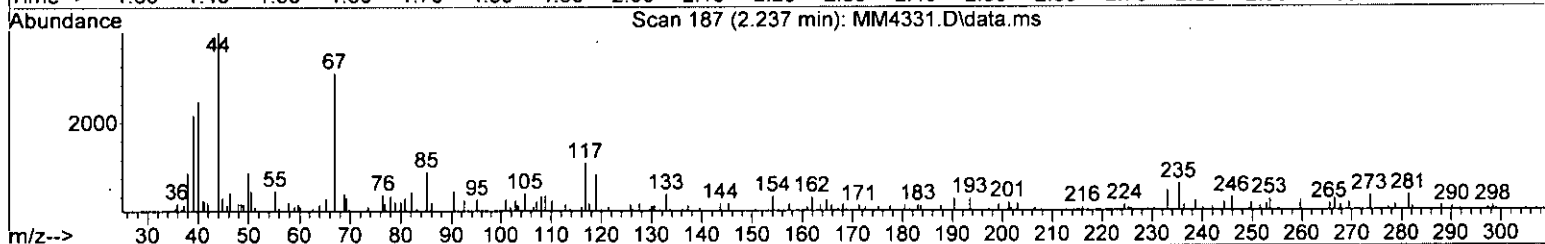
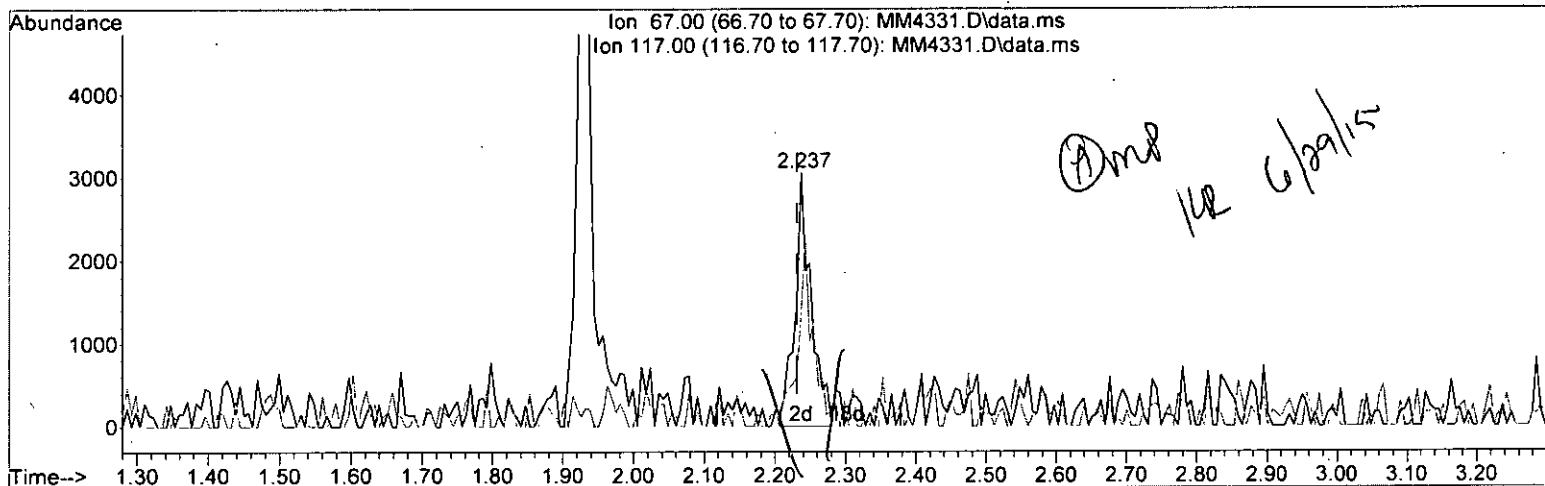
Ion	Exp%	Act%
67.00	100	100
117.00	79.00	61.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4331.D
Acq On : 28 Jun 2015 5:02 pm
Operator : K.Ruest
Sample : R1504946-005|1.0
Misc : CB&I 13429 T4
ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:18:44 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4331.D\data.ms

(10) Freon 123a

2.237min (+0.006) 0.51 ppb m

response 4811

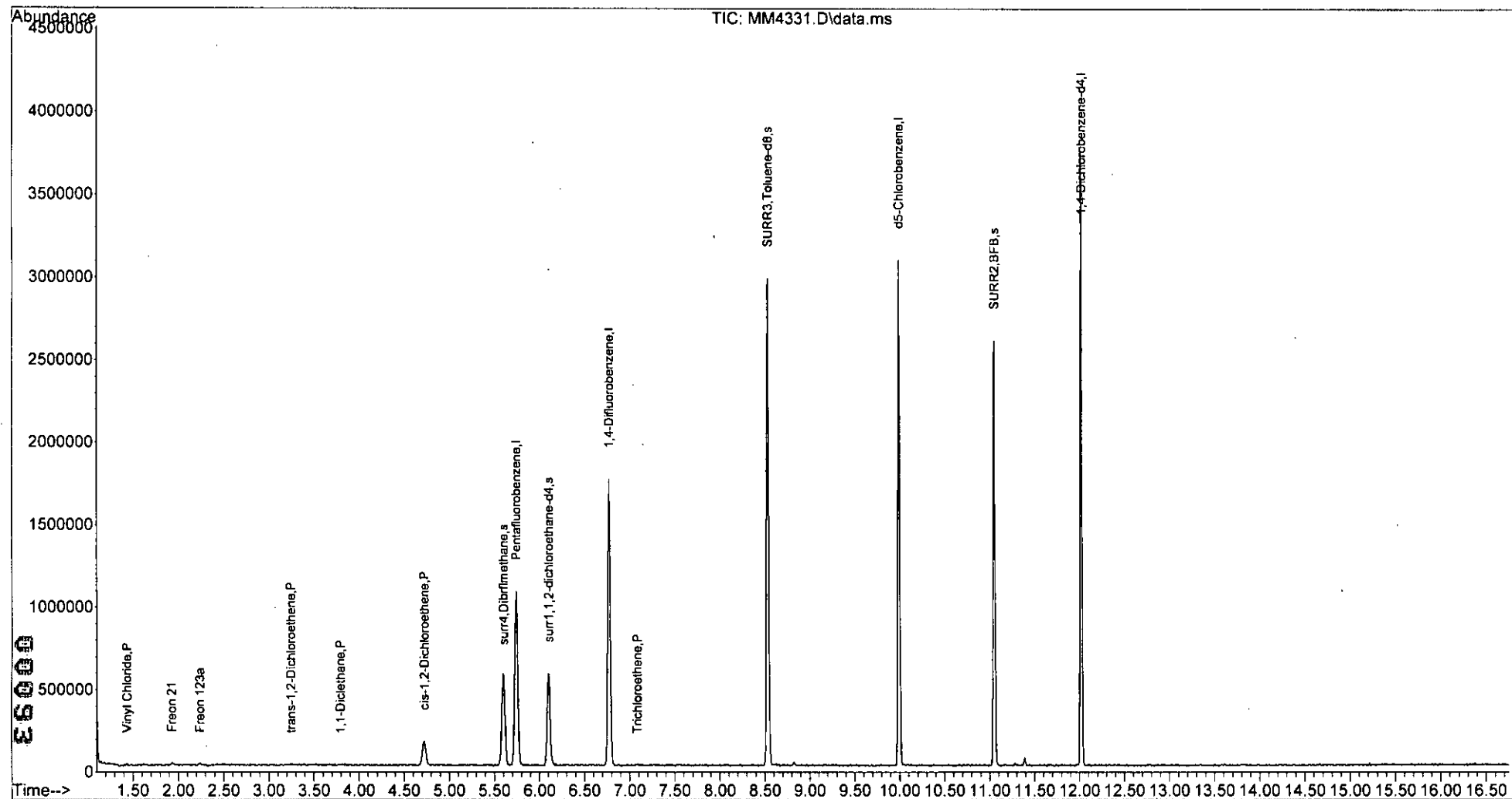
Ion	Exp%	Act%
67.00	100	100
117.00	79.00	37.06#
0.00	0.00	0.00
0.00	0.00	0.00

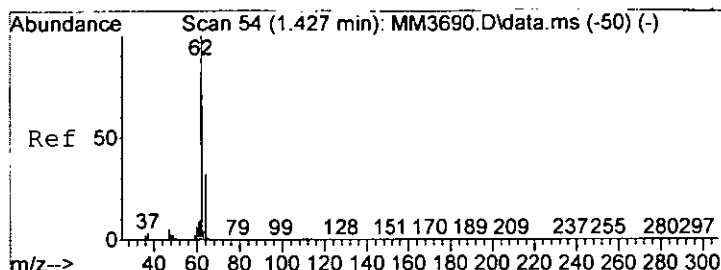
Ww
CH.

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4331.D
Acq On : 28 Jun 2015 5:02 pm
Operator : K.Ruest
Sample : R1504946-005|1.0
Misc : CB&I 13429 T4
ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

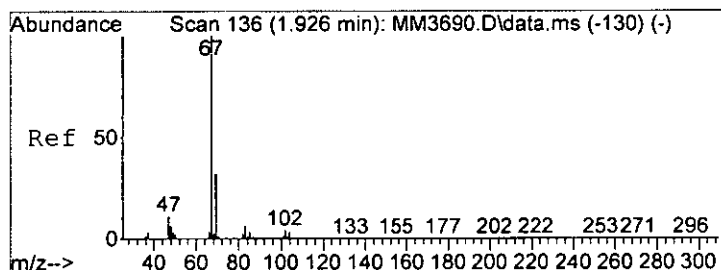
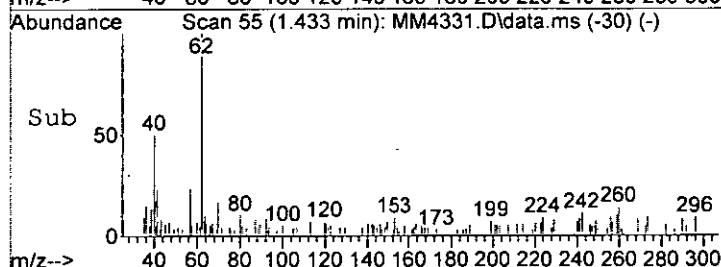
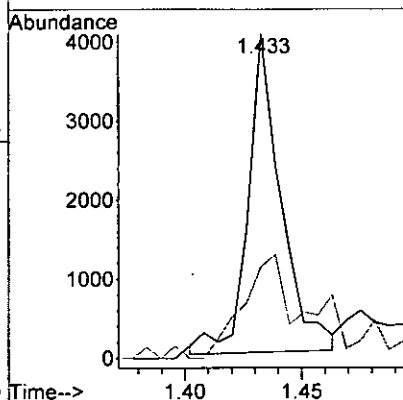
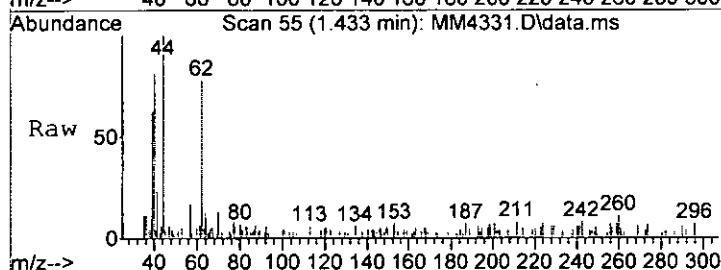
Quant Time: Jun 29 16:07:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





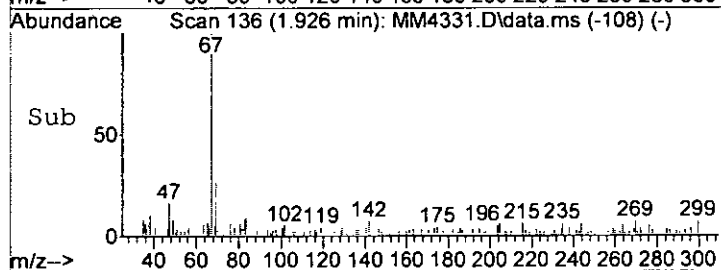
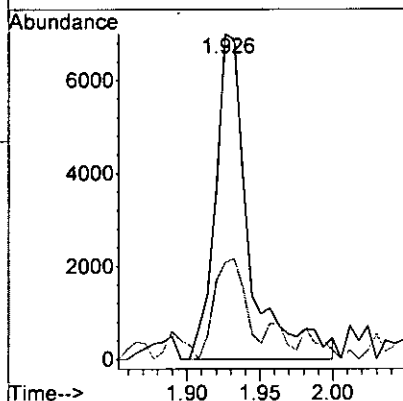
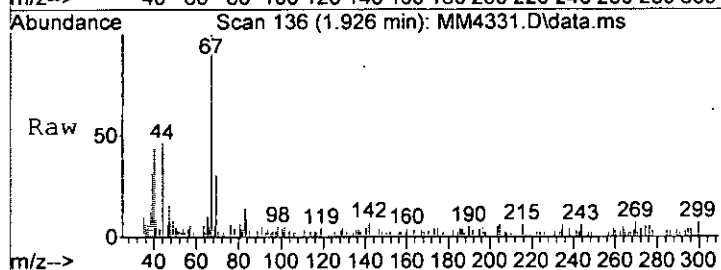
#4
 Vinyl Chloride
 Concen: 0.44 ppb
 RT: 1.433 min Scan# 55
 Delta R.T. 0.006 min
 Lab File: MM4331.D
 Acq: 28 Jun 2015 5:02 pm

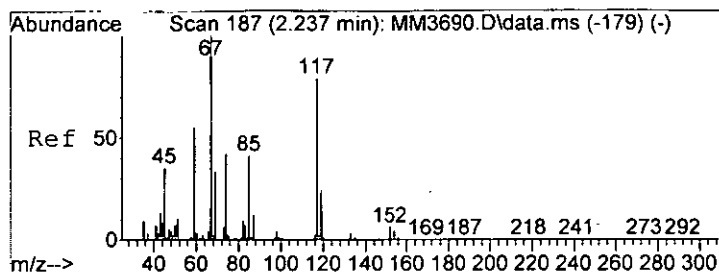
Tgt Ion: 62 Resp: 3956
 Ion Ratio Lower Upper
 62 100
 64 28.1 11.5 51.5



#7
 Freon 21
 Concen: 0.76 ppb
 RT: 1.926 min Scan# 136
 Delta R.T. 0.006 min
 Lab File: MM4331.D
 Acq: 28 Jun 2015 5:02 pm

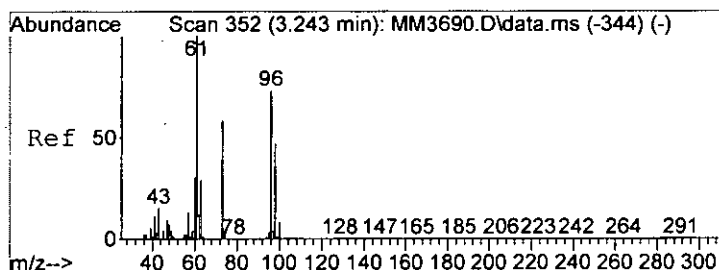
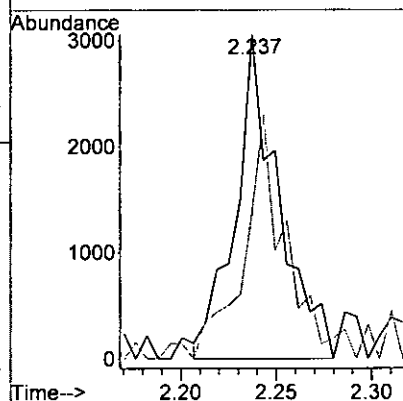
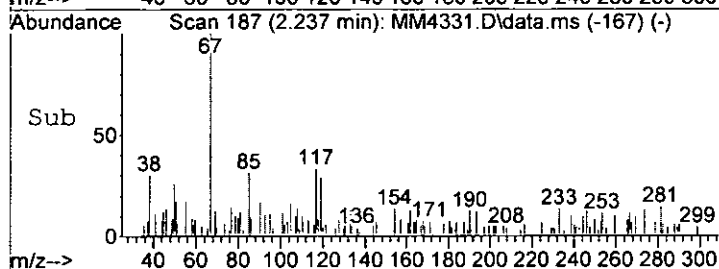
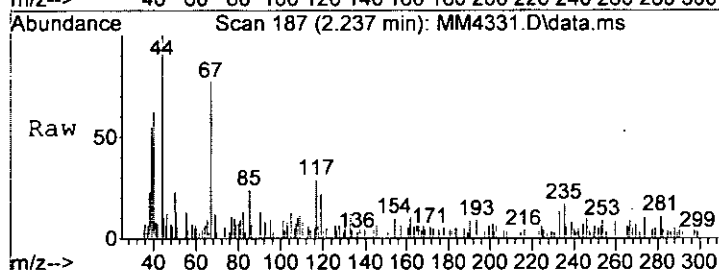
Tgt Ion: 67 Resp: 11211
 Ion Ratio Lower Upper
 67 100
 69 29.6 11.9 51.9





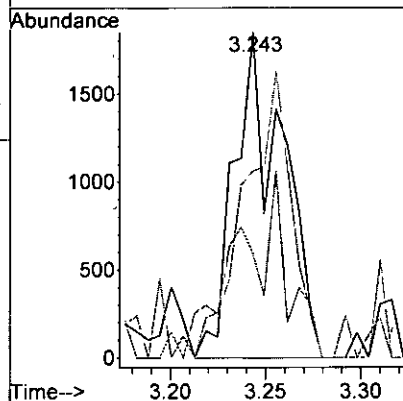
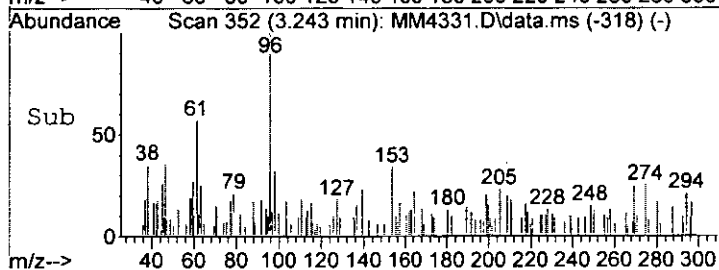
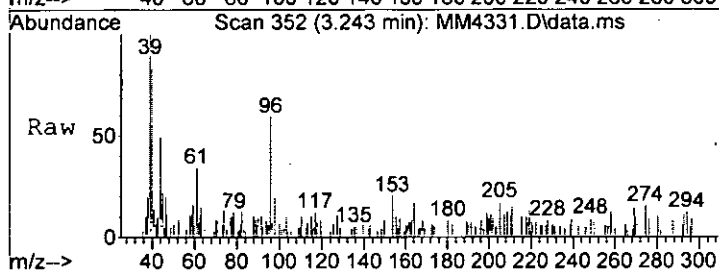
#10
 Freon 123a
 Concen: 0.51 ppb m
 RT: 2.237 min Scan# 187
 Delta R.T. 0.006 min
 Lab File: MM4331.D
 Acq: 28 Jun 2015 5:02 pm

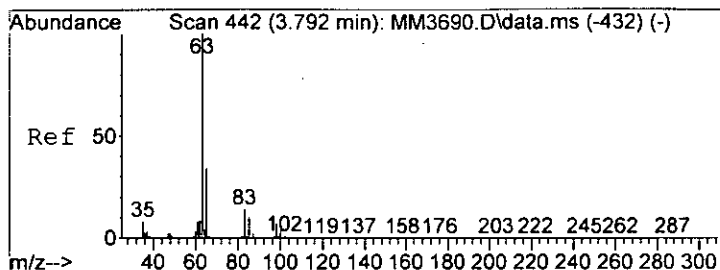
Tgt Ion: 67 Resp: 4811
 Ion Ratio Lower Upper
 67 100
 117 37.1 59.0 99.0#



#26
 trans-1,2-Dichloroethene
 Concen: 0.46 ppb m
 RT: 3.243 min Scan# 352
 Delta R.T. -0.000 min
 Lab File: MM4331.D
 Acq: 28 Jun 2015 5:02 pm

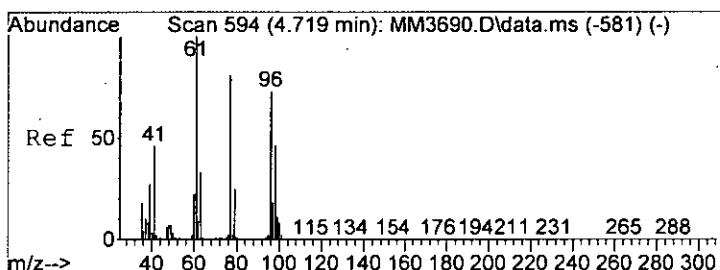
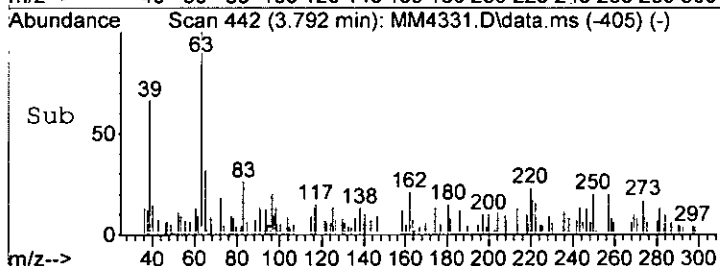
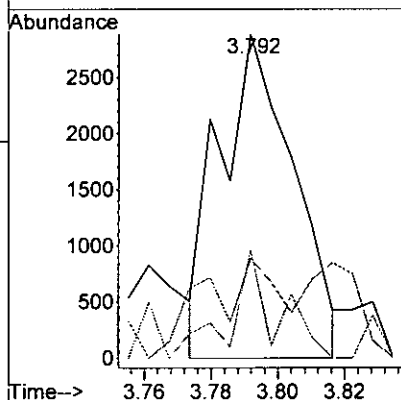
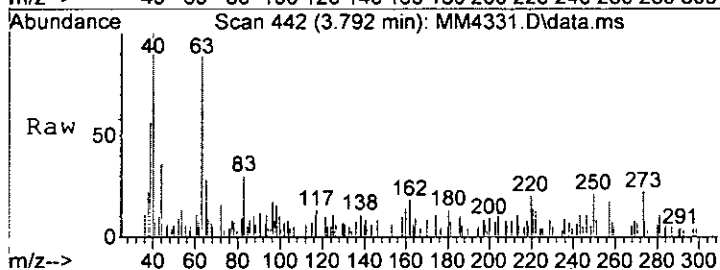
Tgt Ion: 96 Resp: 3243
 Ion Ratio Lower Upper
 96 100
 98 32.1 44.2 84.2#
 61 57.4 116.9 156.9#





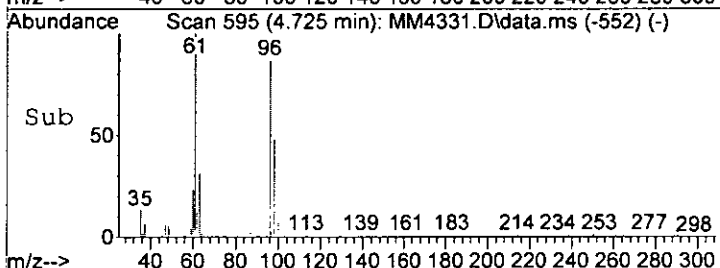
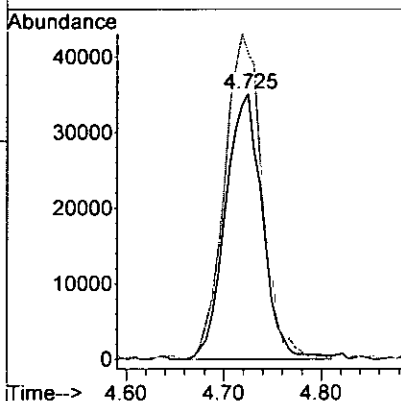
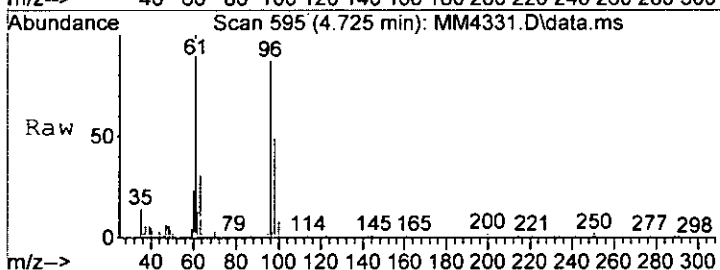
#28
1,1-Dicloroethane
Concen: 0.39 ppb
RT: 3.792 min Scan# 442
Delta R.T. -0.000 min
Lab File: MM4331.D
Acq: 28 Jun 2015 5:02 pm

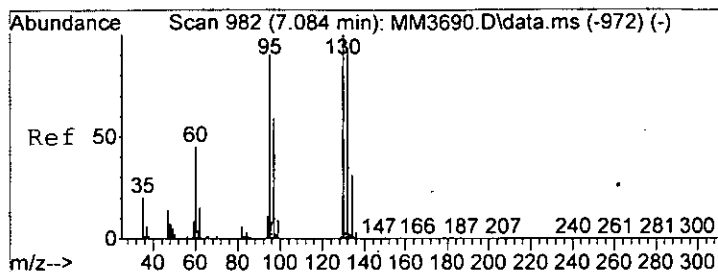
Tgt Ion: 63 Resp: 4470
Ion Ratio Lower Upper
63 100
65 30.8 13.8 53.8
83 33.4 0.0 34.1



#34
cis-1,2-Dichloroethene
Concen: 12.28 ppb
RT: 4.725 min Scan# 595
Delta R.T. 0.006 min
Lab File: MM4331.D
Acq: 28 Jun 2015 5:02 pm

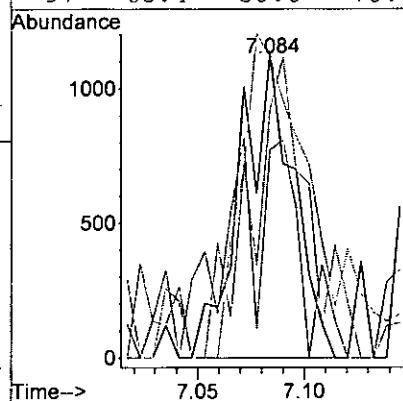
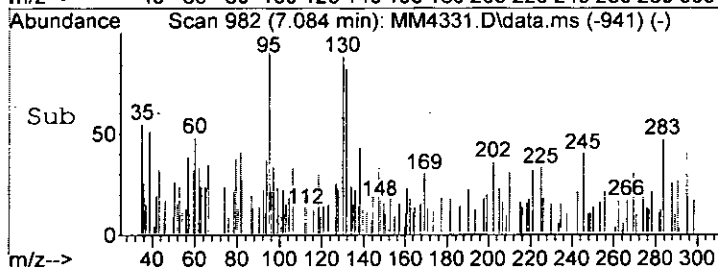
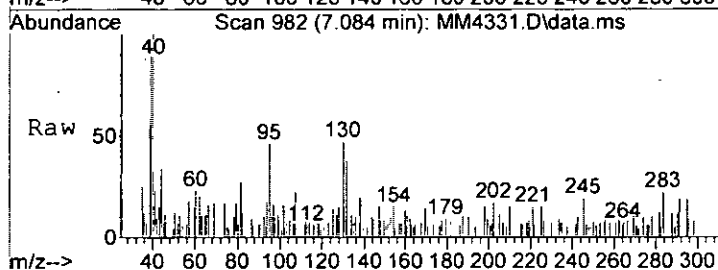
Tgt Ion: 96 Resp: 91962
Ion Ratio Lower Upper
96 100
61 115.2 117.6 157.6#





#54
 Trichloroethene
 Concen: 0.25 ppb
 RT: 7.084 min Scan# 982
 Delta R.T. -0.000 min
 Lab File: MM4331.D
 Acq: 28 Jun 2015 5:02 pm

Tgt Ion:130 Resp: 1949
 Ion Ratio Lower Upper
 130 100
 132 81.7 72.7 112.7
 95 98.9 69.8 109.8
 97 68.4 38.8 78.8



Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1220
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 17:33

Sample Name: BAT-93-03(1)-150619
 Lab Code: R1504946-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1220
Date Received: 6/20/15
Date Analyzed: 6/28/15 17:33

Sample Name: BAT-93-03(1)-150619
Lab Code: R1504946-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4332.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	110	85-122	6/28/15 17:33			
Toluene-d8	109	87-121	6/28/15 17:33			
Dibromofluoromethane	109	89-119	6/28/15 17:33			

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4332.D
 Acq On : 28 Jun 2015 5:33 pm
 Operator : K.Ruest
 Sample : R1504946-006|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 16:10:05 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	857648	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1442263	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1416331	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	775367	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.597	113	425423	54.51	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	109.02%	
48) surr1,1,2-dichloroetha...	6.103	65	464237	55.69	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	111.38%	
65) SURR3,Toluene-d8	8.535	98	1853054	54.36	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	108.72%	
70) SURR2,BFB	11.053	95	714276	55.15	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	110.30%	
Target Compounds						
25) Methyl-t-Butyl Ether	3.262	73	3763m	0.23	ppb	Qvalue

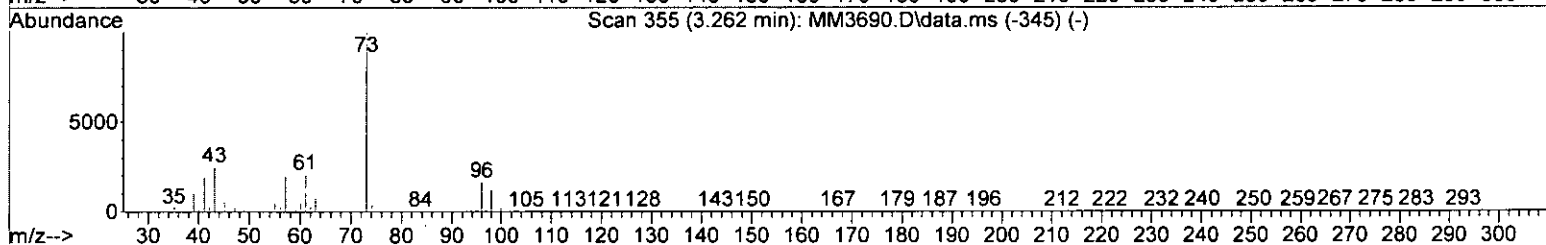
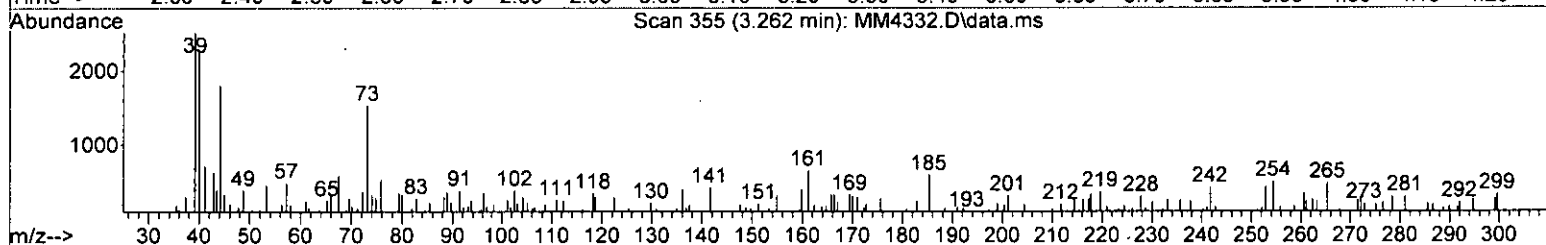
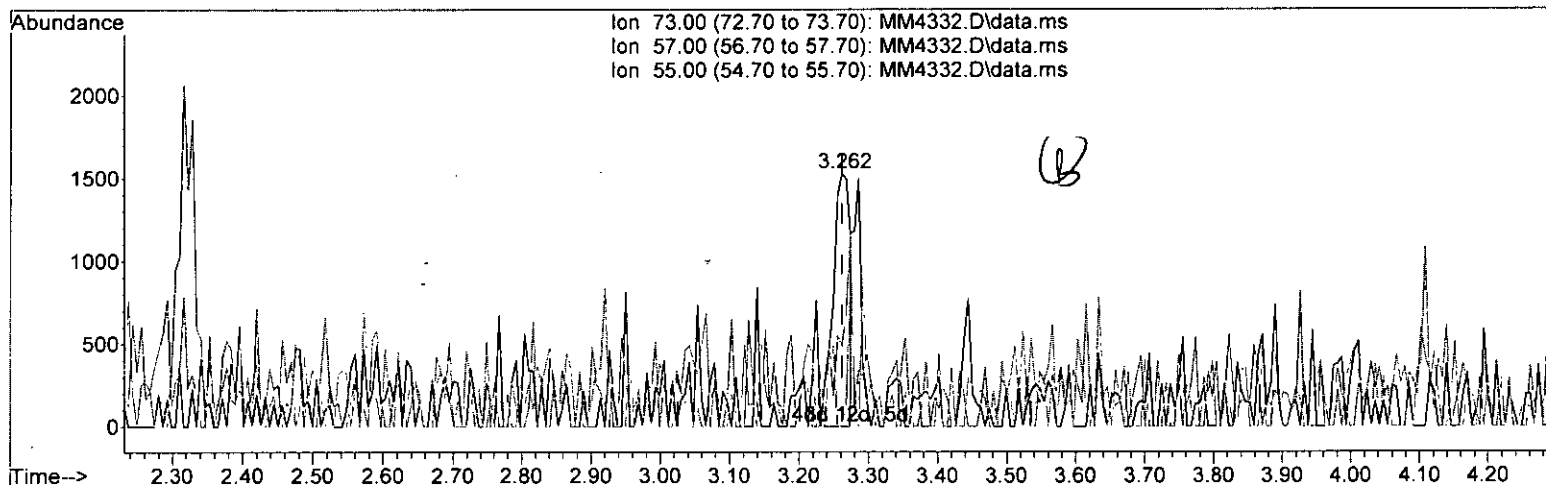
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR
6/29/15

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4332.D
Acq On : 28 Jun 2015 5:33 pm
Operator : K.Ruest
Sample : R1504946-006|1.0
Misc : CB&I 13429 T4
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:49:22 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4332.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.262min (-0.000) 0.16 ppb

response 2592

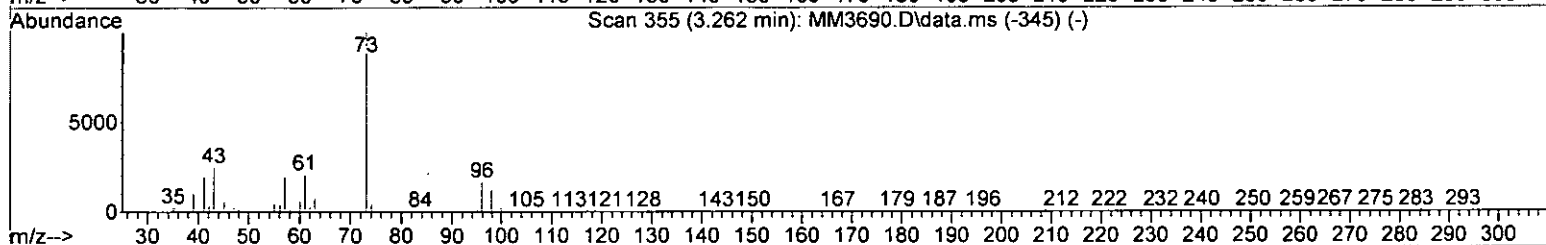
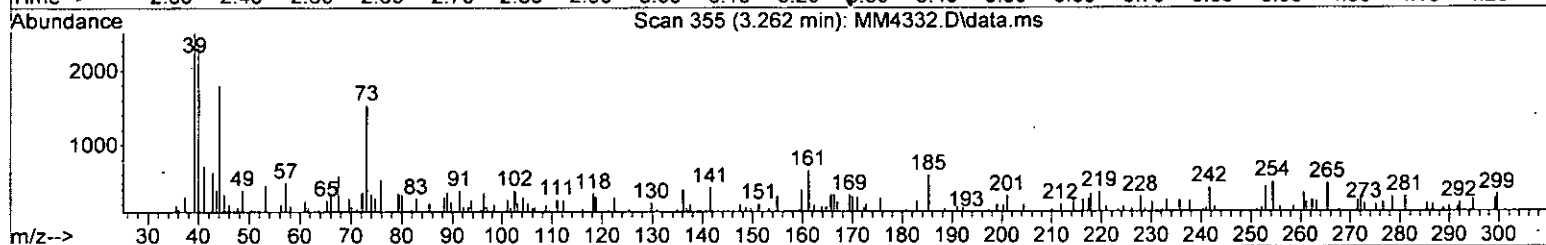
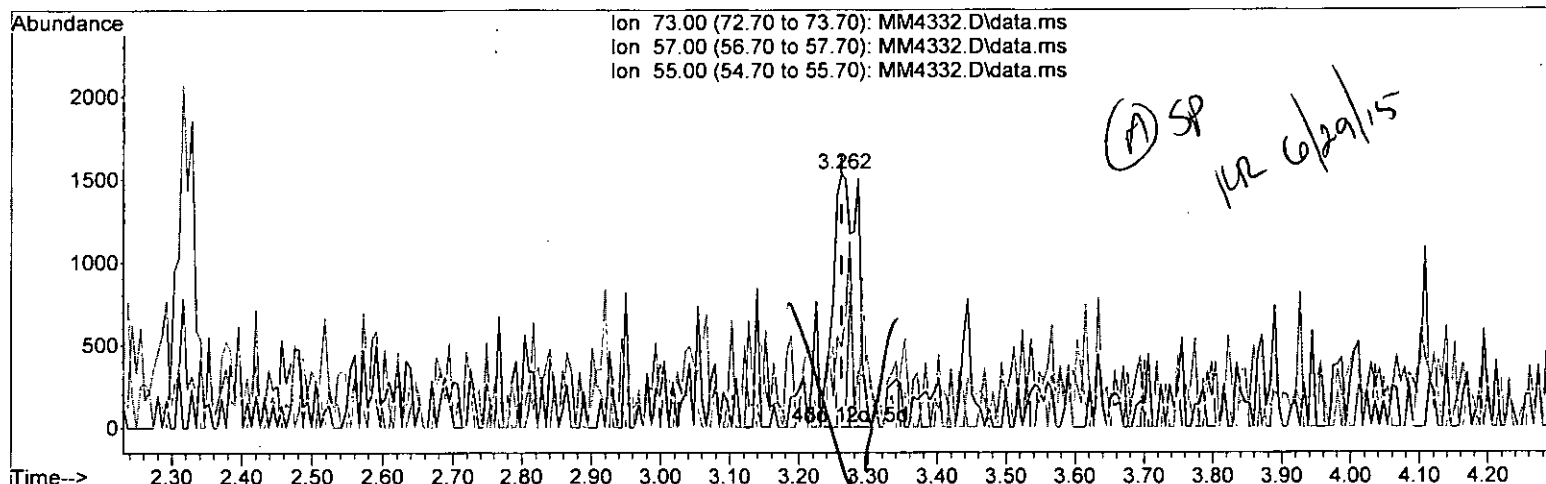
Ion	Exp%	Act%
73.00	100	100
57.00	19.40	31.70
55.00	4.30	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4332.D
 Acq On : 28 Jun 2015 5:33 pm
 Operator : K.Ruest
 Sample : R1504946-00611.0
 Misc : CB&I 13429 T4
 ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 17:49:22 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4332.D\data.ms

(25) Methyl-t-Butyl Ether (P)

3.262min (-0.000) 0.23 ppb m

response 3763

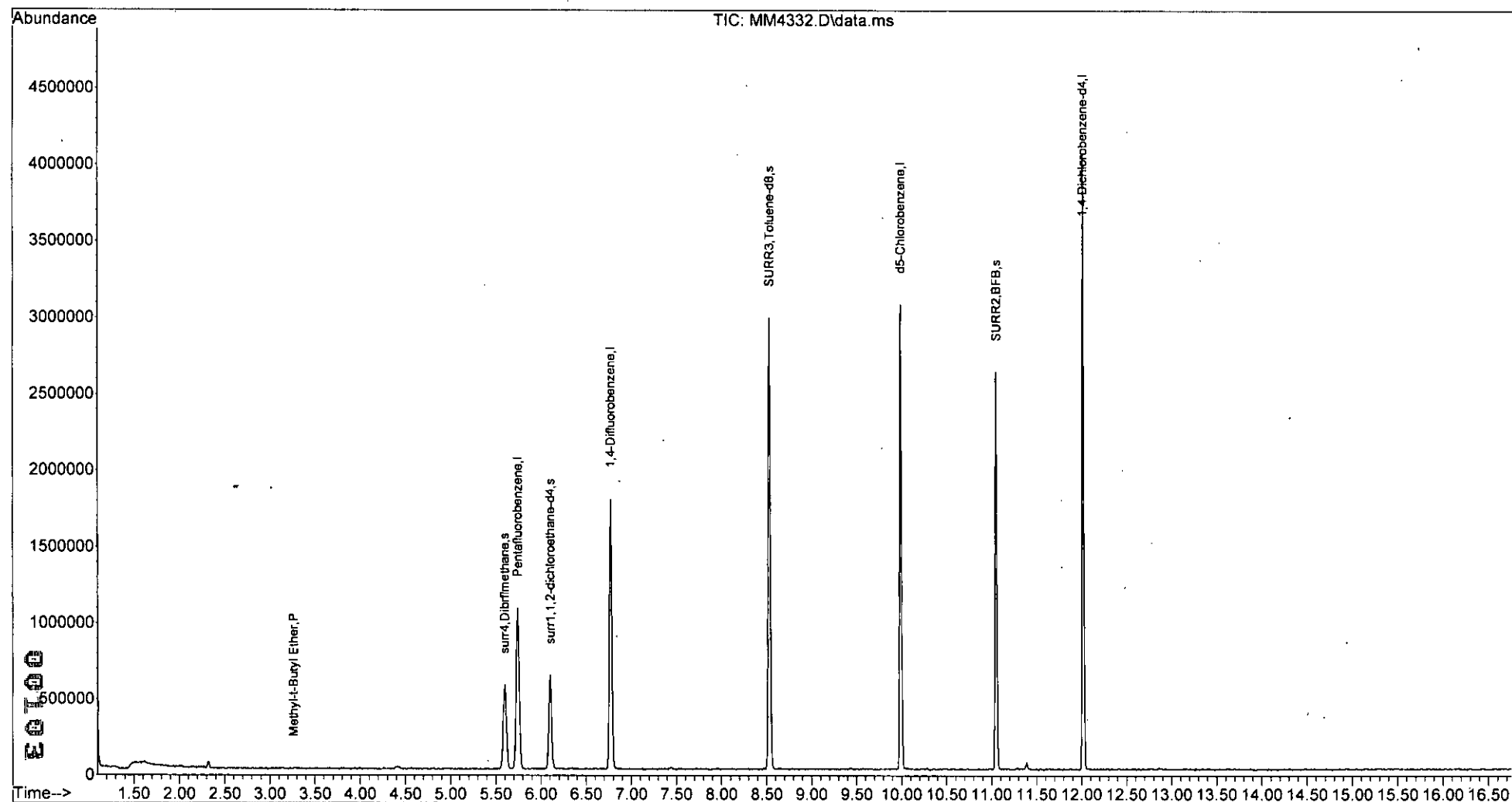
Ion	Exp%	Act%
73.00	100	100
57.00	19.40	31.70
55.00	4.30	0.00
0.00	0.00	0.00

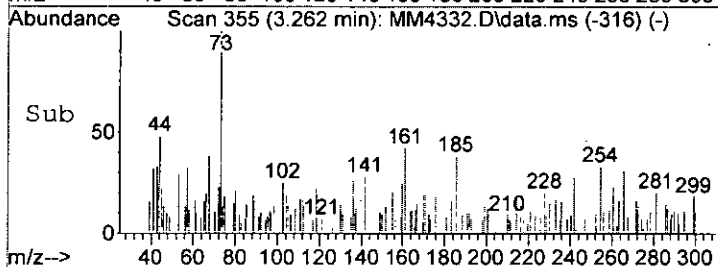
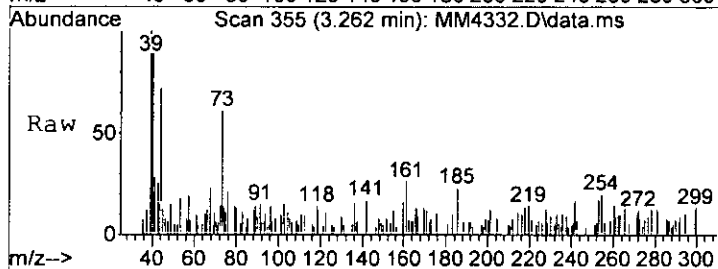
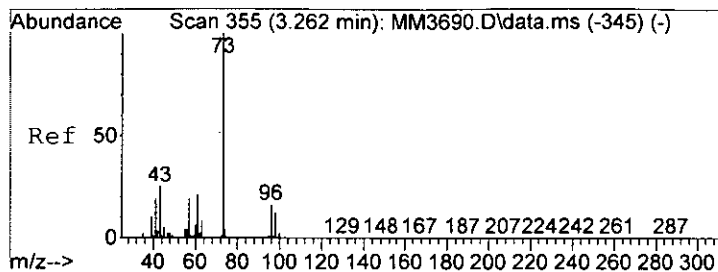
142
6/10

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4332.D
Acq On : 28 Jun 2015 5:33 pm
Operator : K.Ruest
Sample : R1504946-006|1.0
Misc : CB&I 13429 T4
ALS Vial : 16 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 16:10:05 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





#25

Methyl-t-Butyl Ether

Concen: 0.23 ppb m

RT: 3.262 min Scan# 355

Delta R.T. -0.000 min

Lab File: MM4332.D

Acq: 28 Jun 2015 5:33 pm

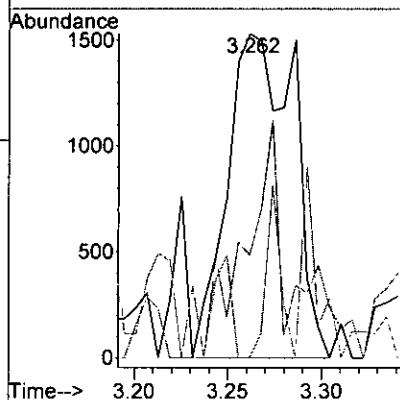
Tgt Ion: 73 Resp: 3763

Ion Ratio Lower Upper

73 100

57 31.7 0.0 39.4

55 0.0 0.0 24.3



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 15:30

Sample Name: Trip blank
 Lab Code: R1504946-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	1.0	U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15 15:30

Sample Name: Trip blank
Lab Code: R1504946-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4328.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	109	85-122	6/28/15 15:30			
Toluene-d8	107	87-121	6/28/15 15:30			
Dibromofluoromethane	105	89-119	6/28/15 15:30			

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4328.D

Acq On : 28 Jun 2015 3:30 pm

Operator : K.Ruest

Sample : R1504946-007|1.0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 28 15:46:43 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	859988	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1475728	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1424141	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	748980	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibromomethane	5.603	113	417638	52.30	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	104.60%
48) surr1, 1,2-dichloroetha...	6.096	65	448488	52.58	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	105.16%
65) SURR3, Toluene-d8	8.529	98	1870976	53.64	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.28%
70) SURR2, BFB	11.047	95	719919	54.33	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	108.66%
Target Compounds						
12) Acrolein	2.341	56	242	0.39	ppb	89
15) Acetone	2.487	43	1891	1.57	ppb	82
16) 2-Propanol	2.579	45	296	1.24	ppb	71
17) Iodomethane	2.664	142	201	1.26	ppb	88
19) Acetonitrile	2.756	40	2222	14.36	ppb	# 9
22) Methylene Chloride	2.926	84	1500	0.22	ppb	85
29) Vinyl Acetate	3.890	86	608	0.43	ppb	# 1
36) Propionitrile	4.944	54	427	0.88	ppb	64
38) Methacrylonitrile	5.188	67	706	0.39	ppb	# 59
39) Tetrahydrofuran	5.237	42	365	0.34	ppb	# 24
53) 1-Butanol	7.115	56	554	4.49	ppb	88
58) 1,4-Dioxane	7.511	88	390	6.94	ppb	93
61) 2-Nitropropane	7.999	41	721	0.55	ppb	# 35
90) Cyclohexanone	11.047	55	2667	12.94	ppb	# 7
94) 1,2,3-Trichloropropane	11.211	110	494	0.26	ppb	# 8

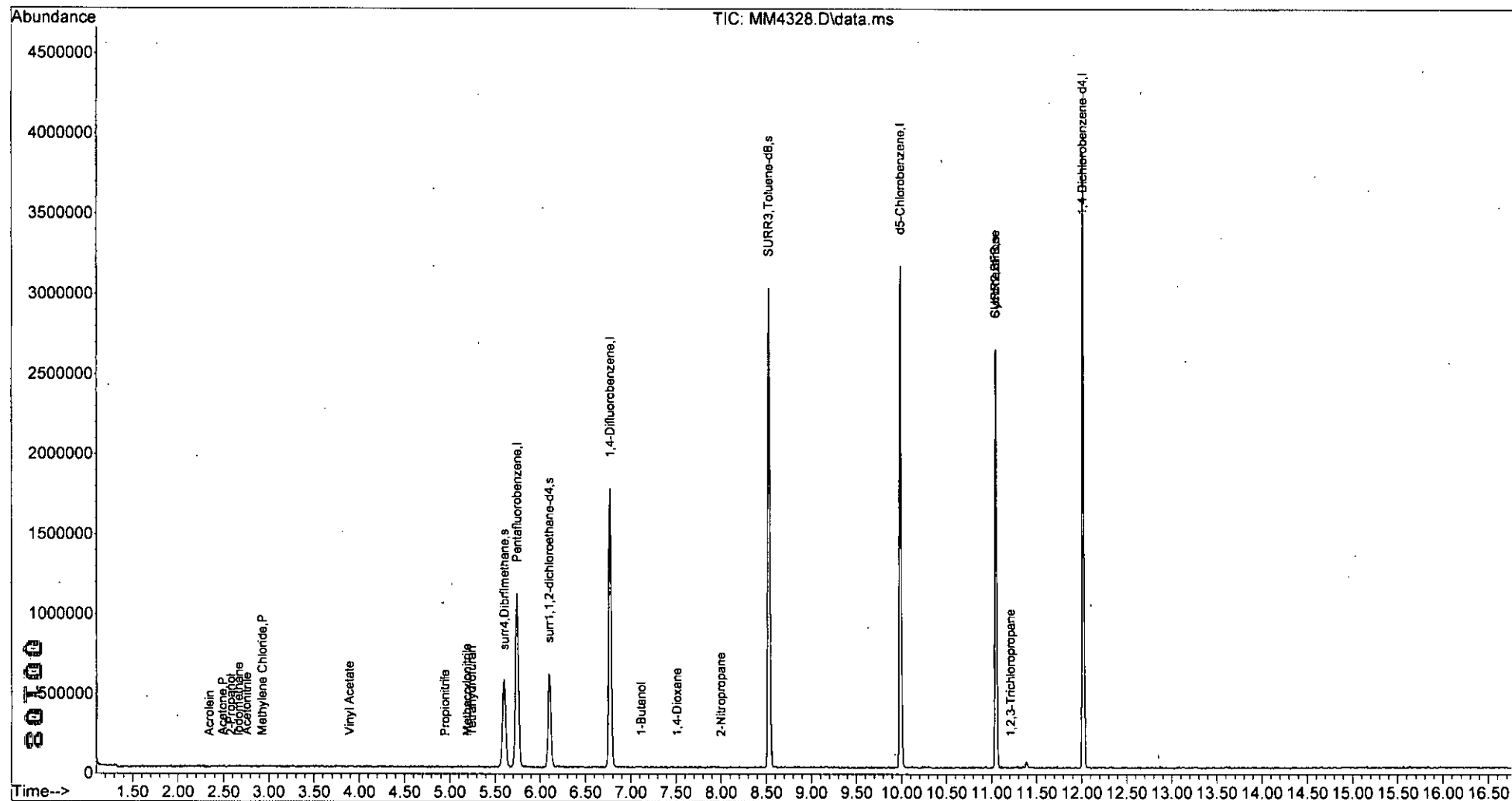
(#) = qualifier out of range (m) = manual integration (+) = signals summed

KR
6/29/15

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\
Data File : MM4328.D
Acq On : 28 Jun 2015 3:30 pm
Operator : K.Ruest
Sample : R1504946-007|1.0
Misc : CB&I 13429 T4
ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 15:46:43 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 19:05

Sample Name: BAT-DUP-2-150619
 Lab Code: R1504946-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4335.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	10 U	10	2.1	
75-01-4	Vinyl Chloride	830	10	3.2	
75-00-3	Chloroethane	10 U	10	2.4	
74-83-9	Bromomethane	10 U	10	2.9	
75-35-4	1,1-Dichloroethene	10 U	10	5.7	
67-64-1	Acetone	50 U	50	13	
75-15-0	Carbon Disulfide	10 U	10	2.2	
75-09-2	Methylene Chloride	10 U	10	6.0	
156-60-5	trans-1,2-Dichloroethene	9.7 J	10	3.4	
75-34-3	1,1-Dichloroethane	11	10	2.0	
156-59-2	cis-1,2-Dichloroethene	1700	10	3.0	
78-93-3	2-Butanone (MEK)	50 U	50	8.2	
67-66-3	Chloroform	3.9 J	10	2.5	
71-55-6	1,1,1-Trichloroethane	12	10	3.6	
56-23-5	Carbon Tetrachloride	10 U	10	4.5	
71-43-2	Benzene	10 U	10	2.0	
107-06-2	1,2-Dichloroethane	10 U	10	3.6	
79-01-6	Trichloroethene	7.2 J	10	2.2	
78-87-5	1,2-Dichloropropane	10 U	10	2.0	
75-27-4	Bromodichloromethane	10 U	10	3.2	
10061-01-5	cis-1,3-Dichloropropene	10 U	10	2.4	
108-10-1	4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	
108-88-3	Toluene	10 U	10	2.0	
10061-02-6	trans-1,3-Dichloropropene	10 U	10	2.0	
79-00-5	1,1,2-Trichloroethane	10 U	10	3.5	
127-18-4	Tetrachloroethene	10 U	10	3.0	
591-78-6	2-Hexanone	50 U	50	17	
124-48-1	Dibromochloromethane	10 U	10	3.1	
108-90-7	Chlorobenzene	10 U	10	2.9	
100-41-4	Ethylbenzene	10 U	10	2.0	
179601-23-1	m,p-Xylenes	20 U	20	3.4	
95-47-6	o-Xylene	10 U	10	2.0	
100-42-5	Styrene	10 U	10	2.0	
75-25-2	Bromoform	10 U	10	4.2	
79-34-5	1,1,2,2-Tetrachloroethane	10 U	10	2.5	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15
Date Received: 6/20/15
Date Analyzed: 6/28/15 19:05

Sample Name: BAT-DUP-2-150619
Lab Code: R1504946-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4335.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	111	85-122	6/28/15 19:05			
Toluene-d8	108	87-121	6/28/15 19:05			
Dibromofluoromethane	107	89-119	6/28/15 19:05			

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4335.D
 Acq On : 28 Jun 2015 7:05 pm
 Operator : K.Ruest
 Sample : R1504946-008|10
 Misc : CB&I 13429 T4
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 16:23:54 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.743	168	863254	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1450729	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1402774	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	750556	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.597	113	418779	53.34	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	= 106.68%		
48) surr1,1,2-dichloroetha...	6.103	65	451311	53.82	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	= 107.64%		
65) SURR3,Toluene-d8	8.535	98	1849050	53.93	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	= 107.86%		
70) SURR2,BFB	11.053	95	720798	55.33	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	= 110.66%		
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.433	62	746404	82.51	ppb	99
7) Freon 21	1.933	67	29567	1.97	ppb	95
8) Trichlorofluoromethane	1.981	101	5171m	0.38	ppb	
10) Freon 123a	2.244	67	13903	1.45	ppb	92
13) 1,1-Diclethene	2.439	96	2605	0.41	ppb	# 72
14) Freon 113	2.439	101	17623	2.80	ppb	82
26) trans-1,2-Dichloroethene	3.249	96	6903	0.97	ppb	# 74
28) 1,1-Diclethane	3.792	63	12453	1.06	ppb	98
34) cis-1,2-Dichloroethene	4.725	96	1293840	171.09	ppb	# 83
40) Chloroform	5.334	83	4792	0.39	ppb	# 75
41) 1,1,1-Trichloroethane	5.603	97	14242m	1.20	ppb	
54) Trichloroethene	7.090	130	5599	0.72	ppb	92

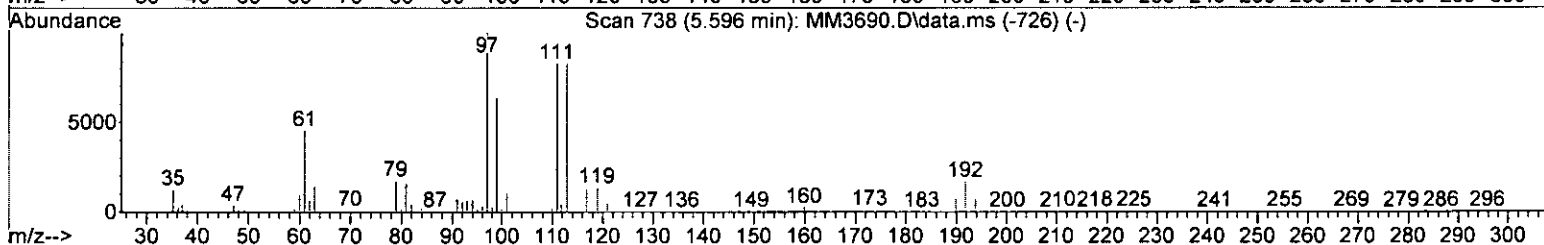
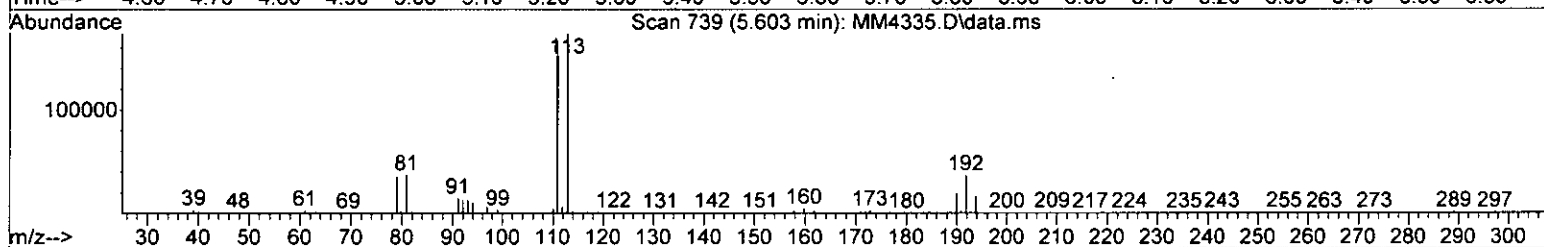
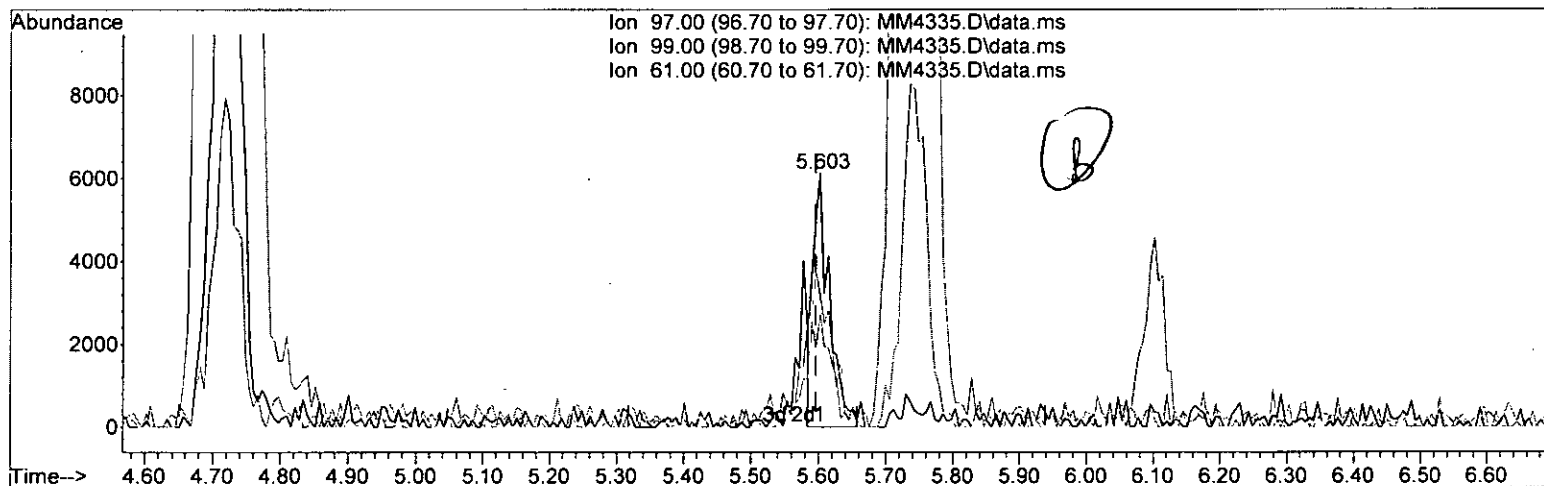
(#) = qualifier out of range (m) = manual integration (+) = signals summed

104
6/29/15

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4335.D
Acq On : 28 Jun 2015 7:05 pm
Operator : K.Ruest
Sample : R1504946-008|10
Misc : CB&I 13429 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:21:44 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4335.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.603min (+0.006) 0.86 ppb

response 10261

Ion	Exp%	Act%

97.00	100	100

99.00	63.80	51.76

61.00	45.30	44.43

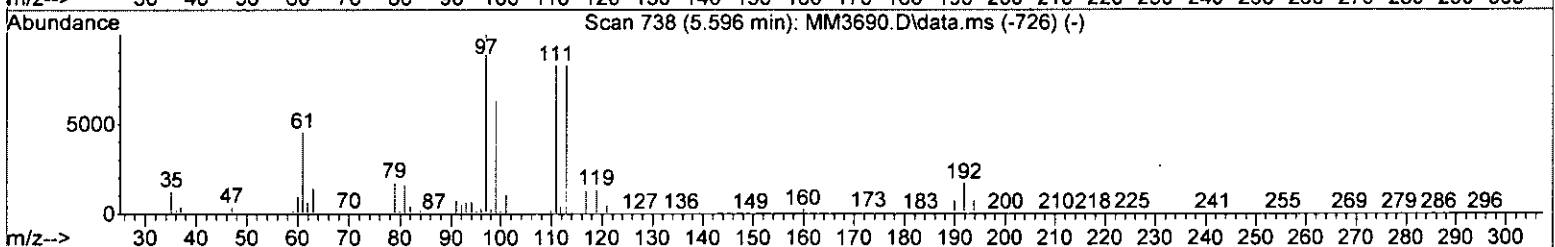
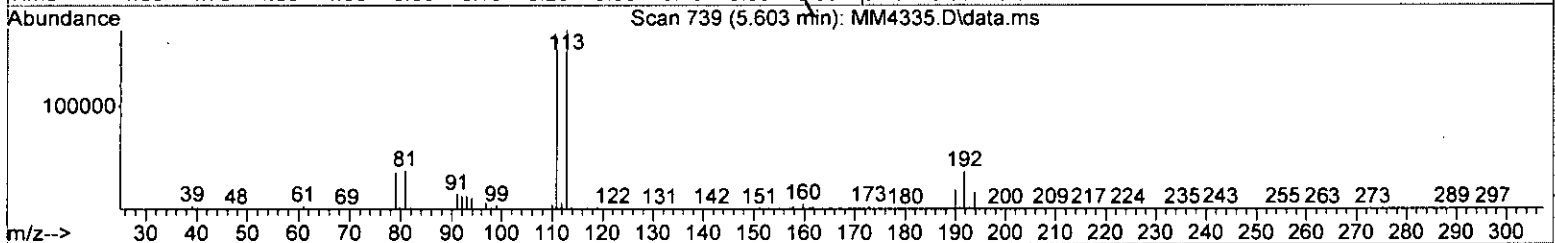
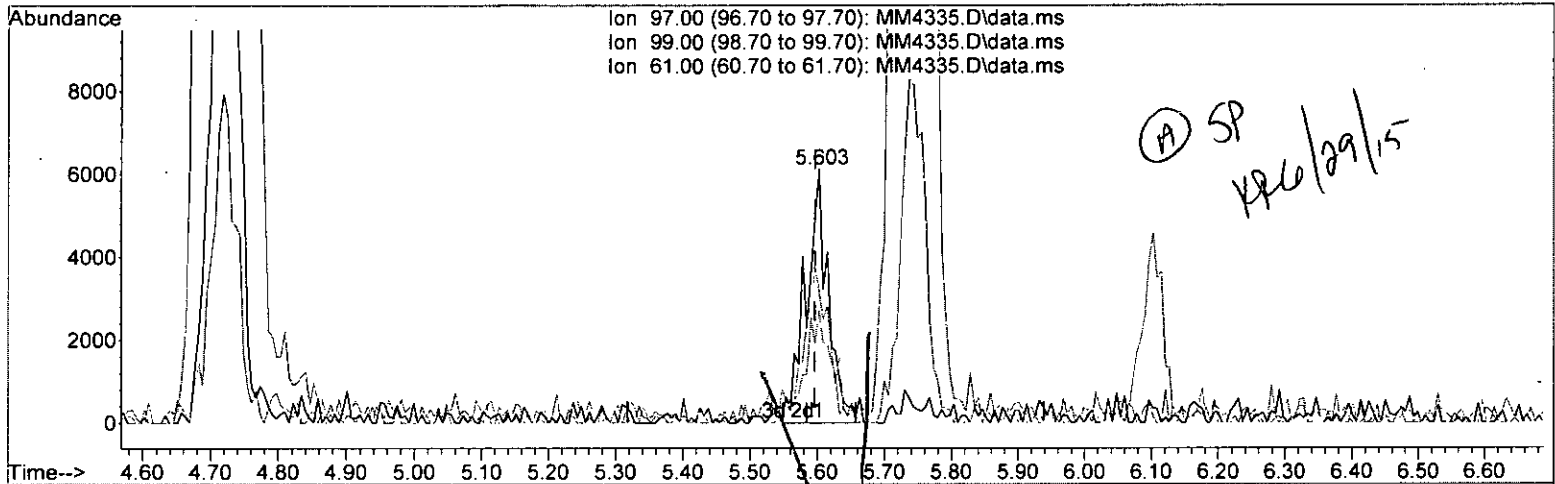
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4335.D
 Acq On : 28 Jun 2015 7:05 pm
 Operator : K.Ruest
 Sample : R1504946-008|10
 Misc : CB&I 13429 T4
 ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:21:44 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4335.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.603min (+0.006) 1.20 ppb m

response 14242

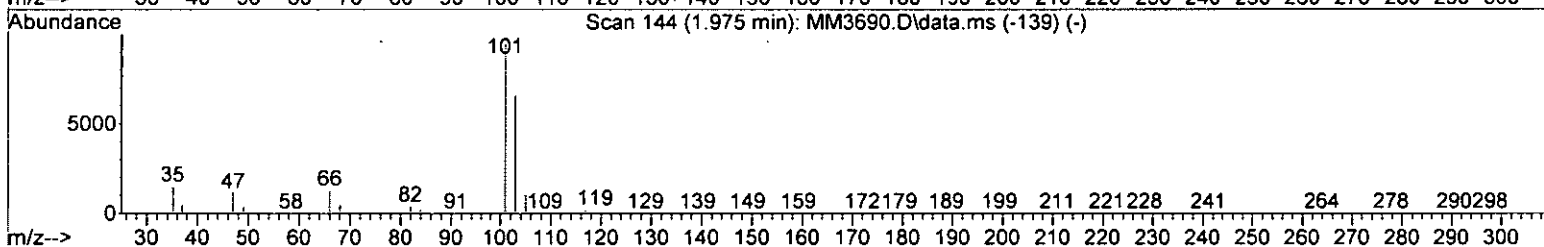
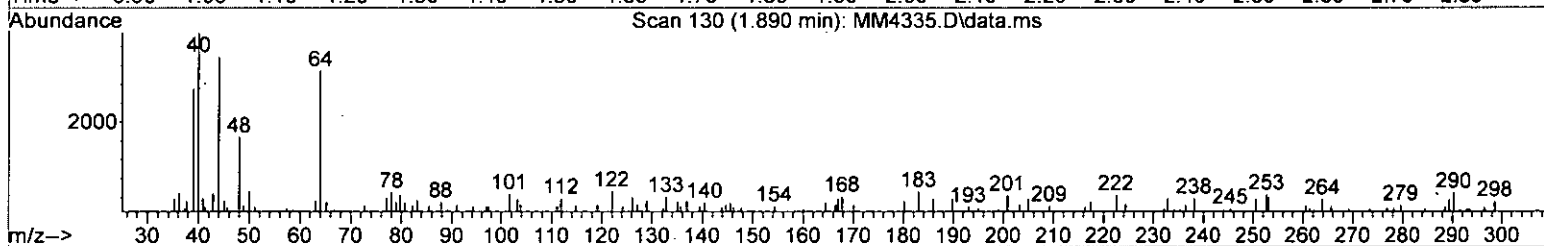
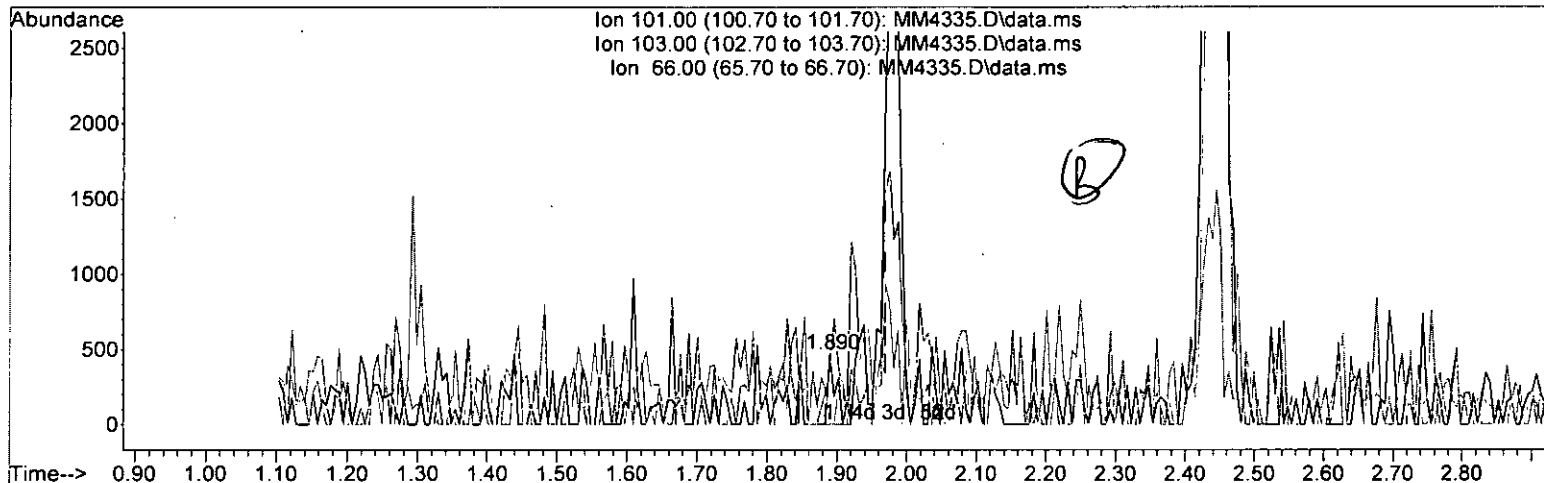
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	51.76
61.00	45.30	44.43
0.00	0.00	0.00

W
C/I

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4335.D
Acq On : 28 Jun 2015 7:05 pm
Operator : K.Ruest
Sample : R1504946-008110
Misc : CB&I 13429 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:21:44 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4335.D\data.ms

(8) Trichlorofluoromethane (P)

1.890min (-0.079) 0.03 ppb

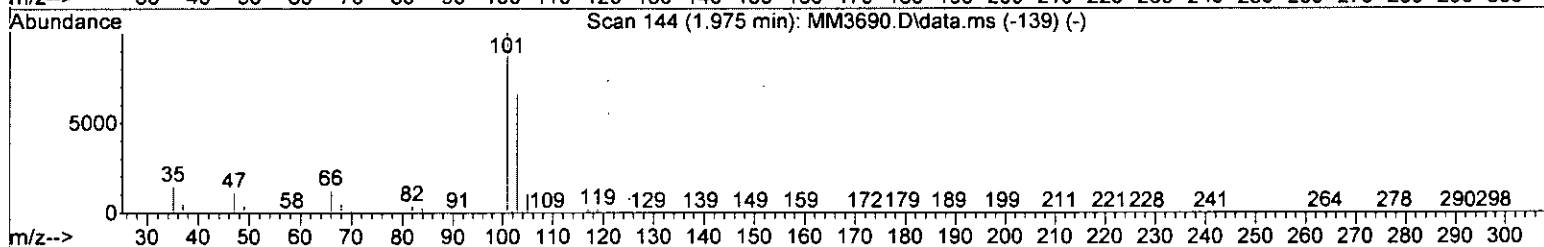
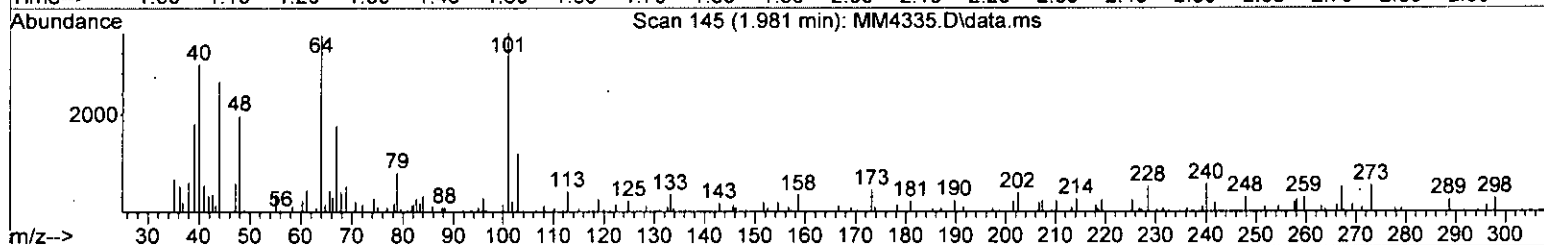
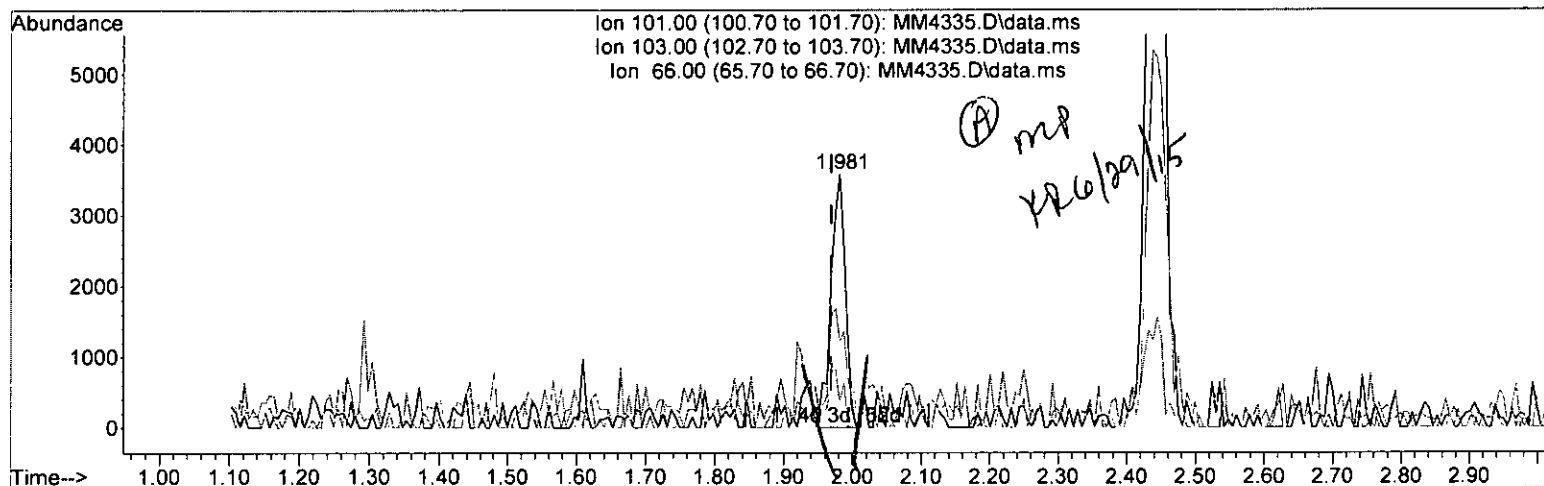
response 406

Ion	Exp%	Act%
101.00	100	100
103.00	65.90	75.16
66.00	13.10	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4335.D
Acq On : 28 Jun 2015 7:05 pm
Operator : K.Ruest
Sample : R1504946-008110
Misc : CB&I 13429 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:21:44 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4335.D\data.ms

(8) Trichlorofluoromethane (P)

1.981min (+0.012) 0.38 ppb m

response 5171

Ion	Exp%	Act%

101.00	100	100

103.00	65.90	34.15#

66.00	13.10	10.52

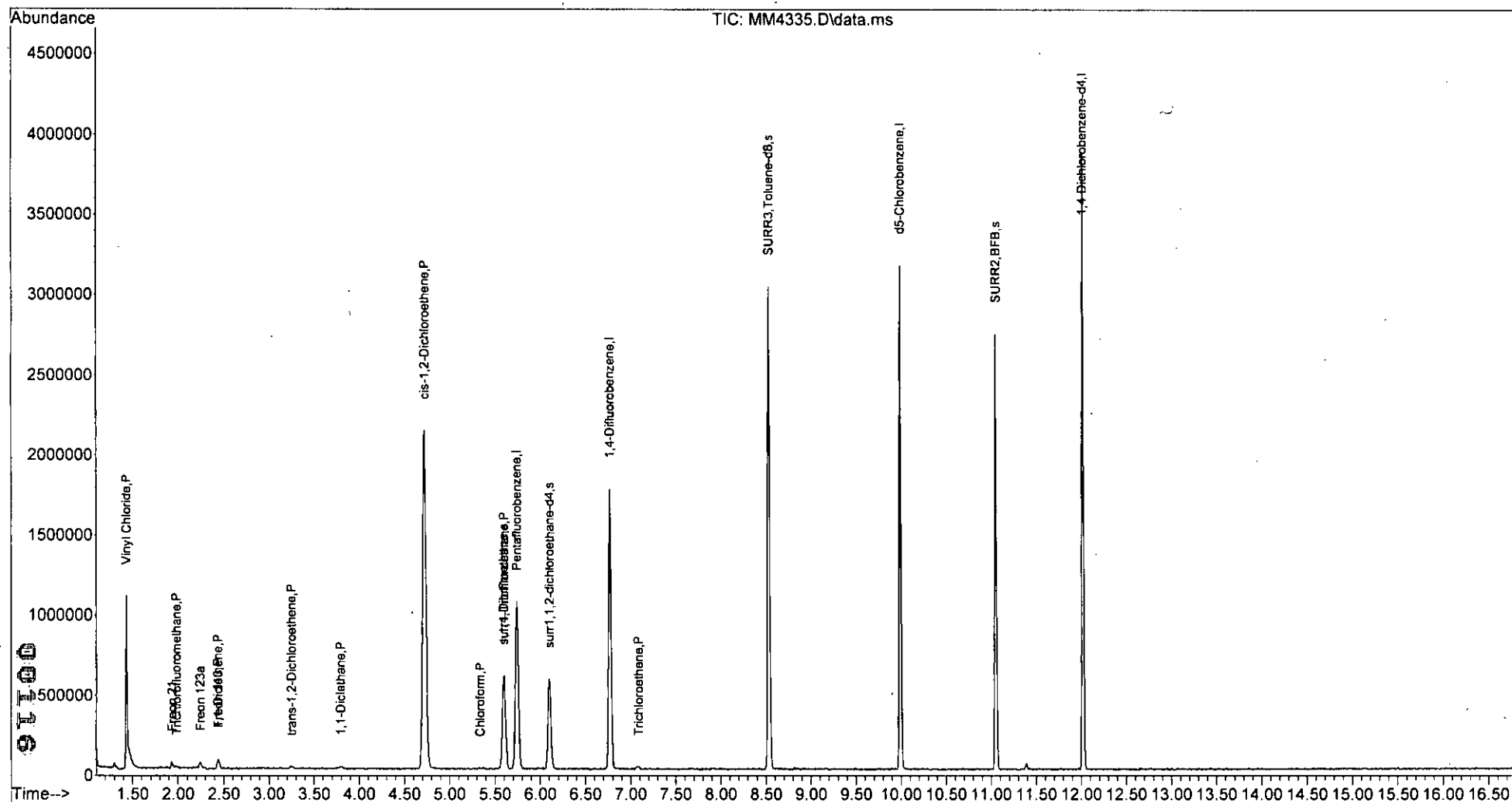
0.00	0.00	0.00

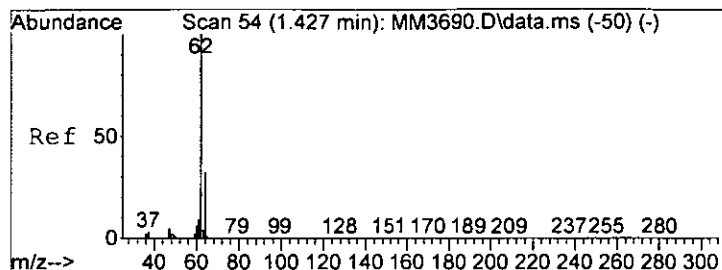
m8
6/15

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4335.D
Acq On : 28 Jun 2015 7:05 pm
Operator : K.Ruest
Sample : R1504946-008110
Misc : CB&I 13429 T4
ALS Vial : 19 Sample Multiplier: 1

Inst : MSVOA-12

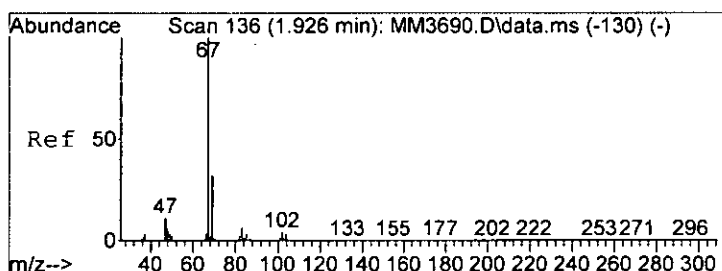
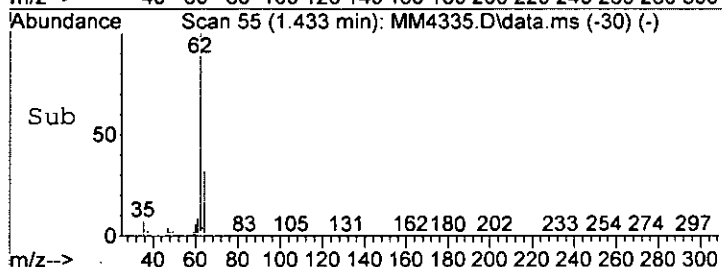
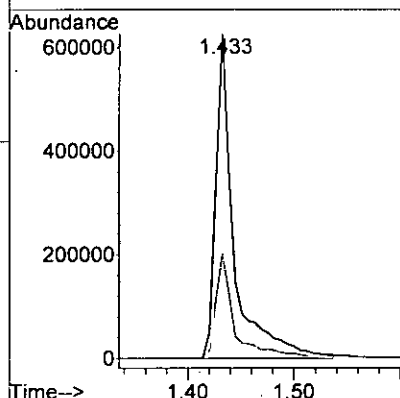
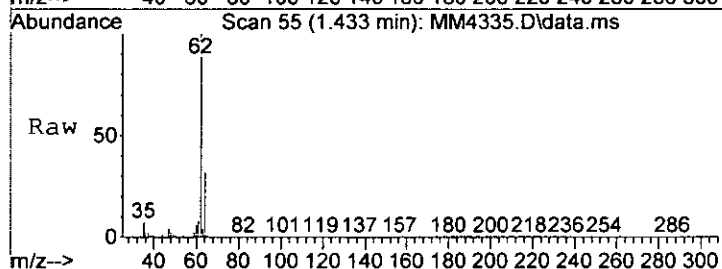
Quant Time: Jun 29 16:23:54 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





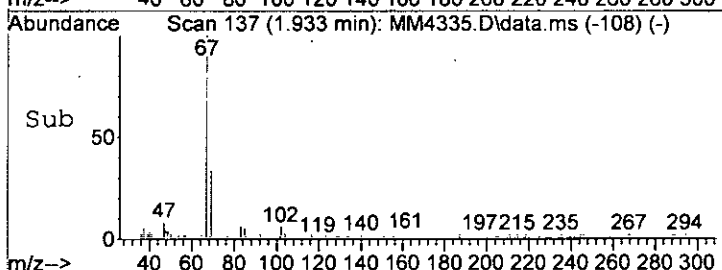
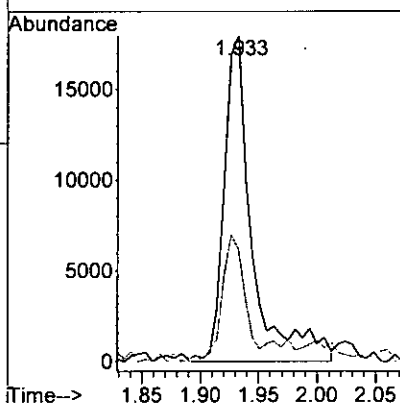
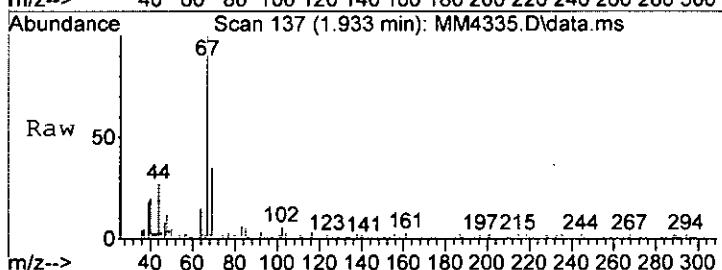
#4
 Vinyl Chloride
 Concen: 82.51 ppb
 RT: 1.433 min Scan# 55
 Delta R.T. 0.006 min
 Lab File: MM4335.D
 Acq: 28 Jun 2015 7:05 pm

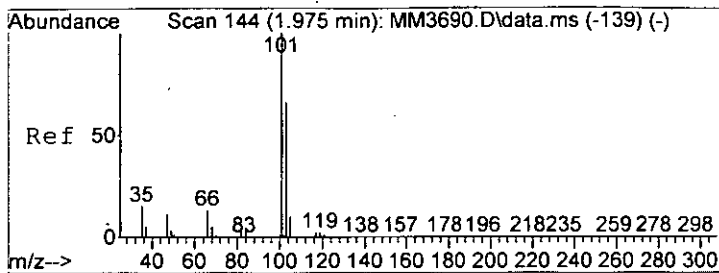
Tgt Ion: 62 Resp: 746404
 Ion Ratio Lower Upper
 62 100
 64 32.2 11.5 51.5



#7
 Freon 21
 Concen: 1.97 ppb
 RT: 1.933 min Scan# 137
 Delta R.T. 0.012 min
 Lab File: MM4335.D
 Acq: 28 Jun 2015 7:05 pm

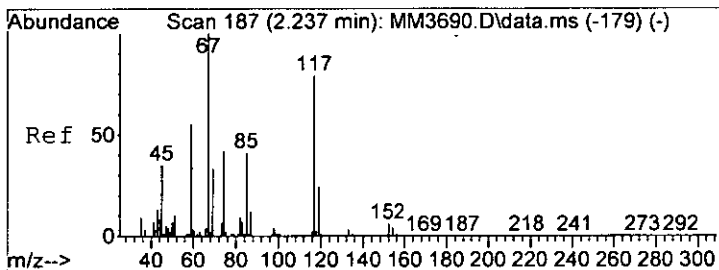
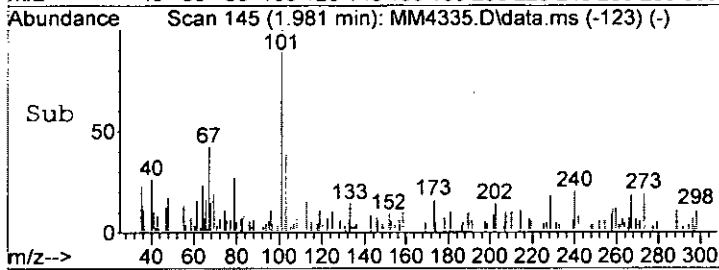
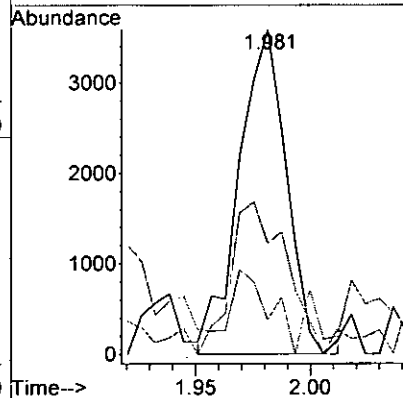
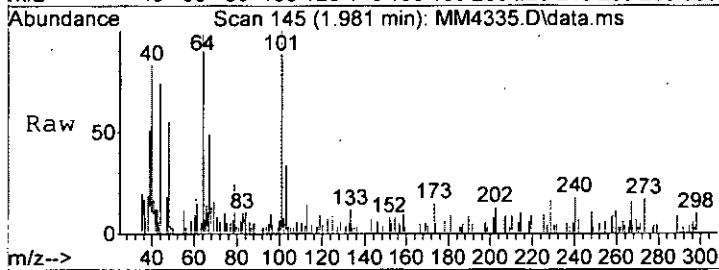
Tgt Ion: 67 Resp: 29567
 Ion Ratio Lower Upper
 67 100
 69 34.5 11.9 51.9





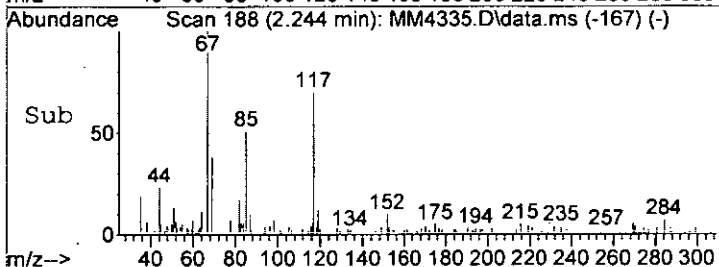
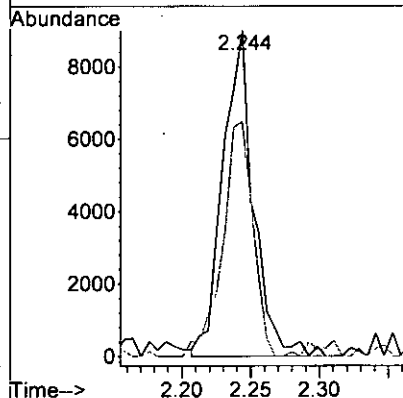
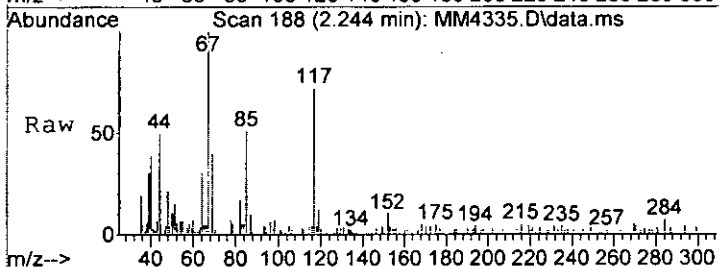
#8
 Trichlorofluoromethane
 Concen: 0.38 ppb m
 RT: 1.981 min Scan# 145
 Delta R.T. 0.012 min
 Lab File: MM4335.D
 Acq: 28 Jun 2015 7:05 pm

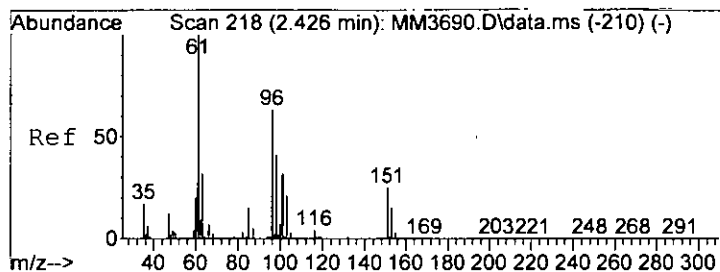
Tgt Ion	Ratio	Lower	Upper
101	100		
103	34.2	45.9	85.9#
66	10.5	0.0	33.1



#10
 Freon 123a
 Concen: 1.45 ppb
 RT: 2.244 min Scan# 188
 Delta R.T. 0.012 min
 Lab File: MM4335.D
 Acq: 28 Jun 2015 7:05 pm

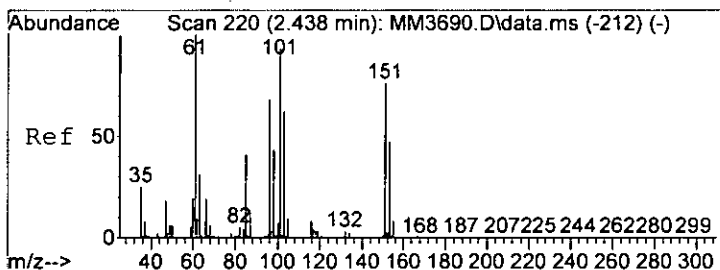
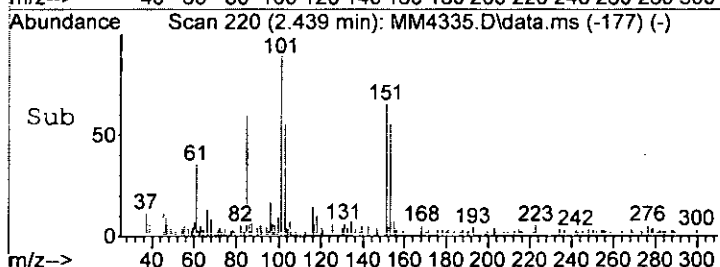
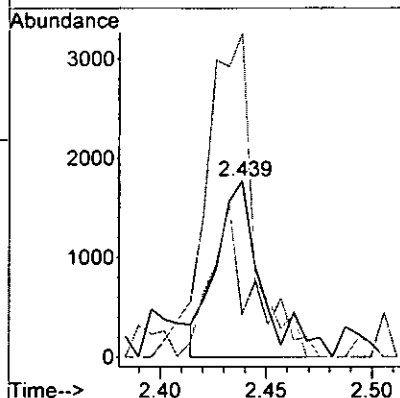
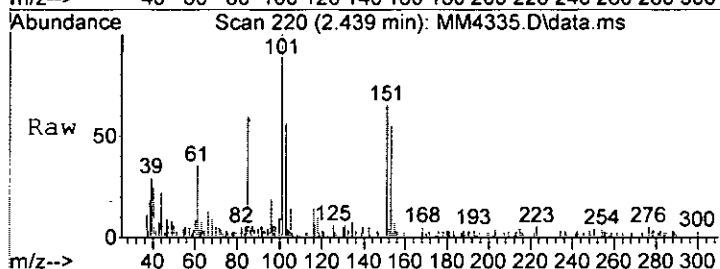
Tgt Ion	Ratio	Lower	Upper
67	100		
117	72.0	59.0	99.0





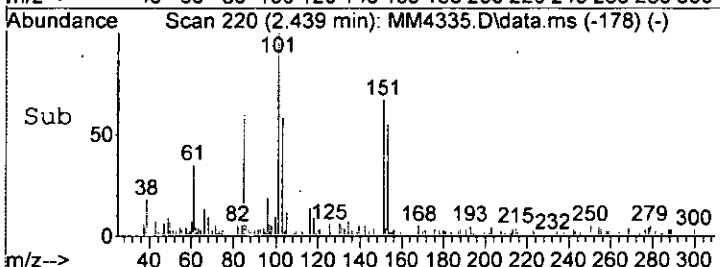
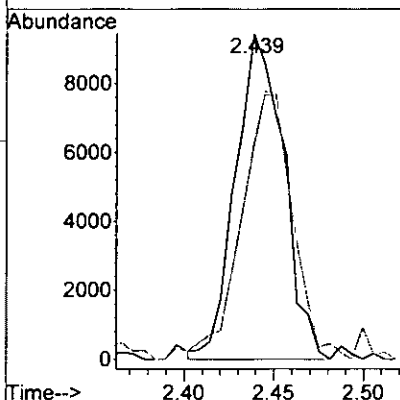
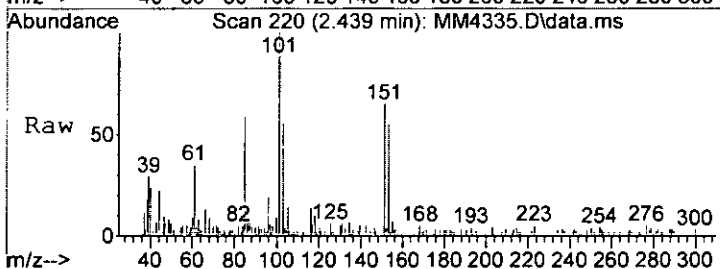
#13
1,1-Dicloroethene
Concen: 0.41 ppb
RT: 2.439 min Scan# 220
Delta R.T. 0.012 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

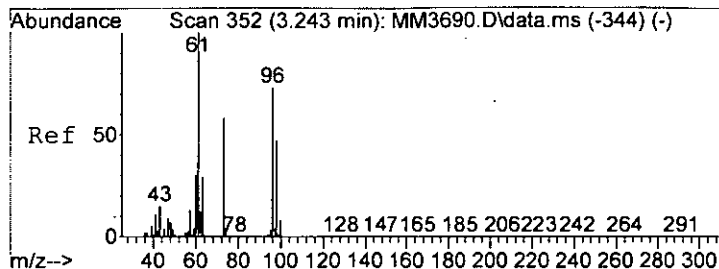
Tgt Ion: 96 Resp: 2605
Ion Ratio Lower Upper
96 100
98 18.3 45.2 85.2#
61 139.1 139.4 179.4#



#14
Freon 113
Concen: 2.80 ppb
RT: 2.439 min Scan# 220
Delta R.T. -0.000 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

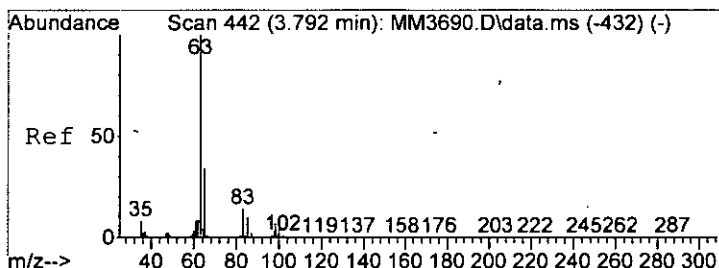
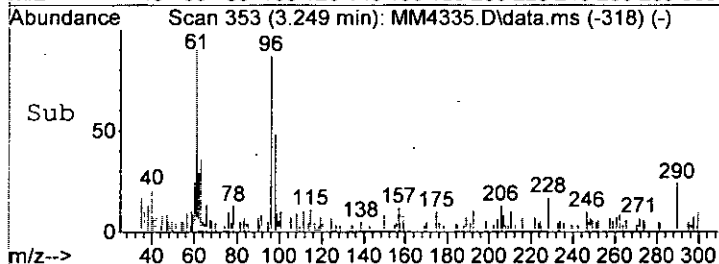
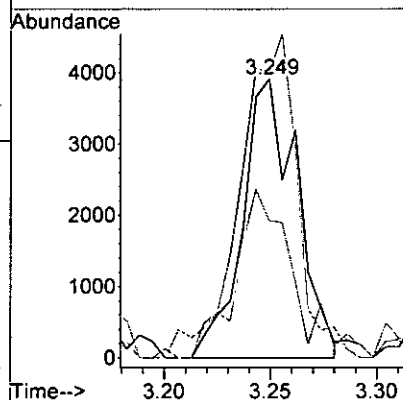
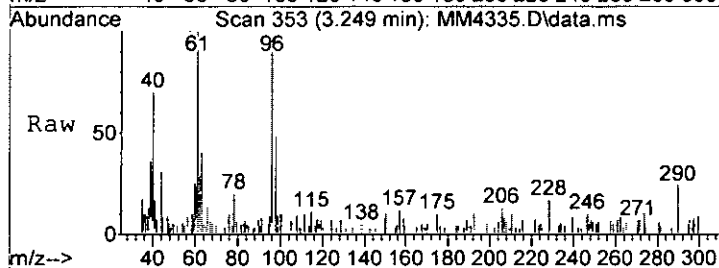
Tgt Ion: 101 Resp: 17623
Ion Ratio Lower Upper
101 100
151 65.5 61.8 101.8





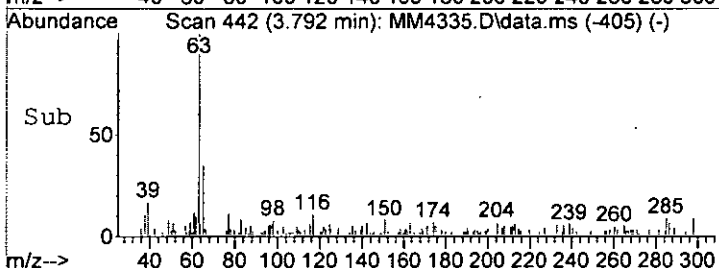
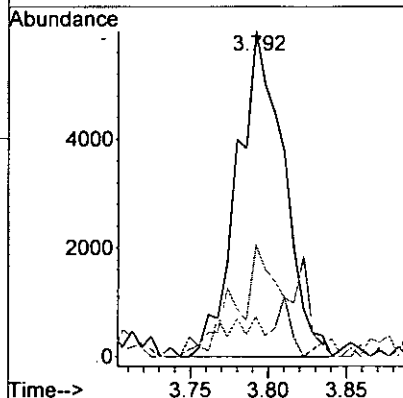
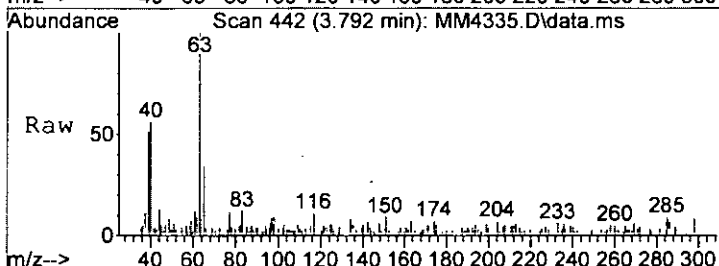
#26
trans-1,2-Dichloroethene
Concen: 0.97 ppb
RT: 3.249 min Scan# 353
Delta R.T. 0.006 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

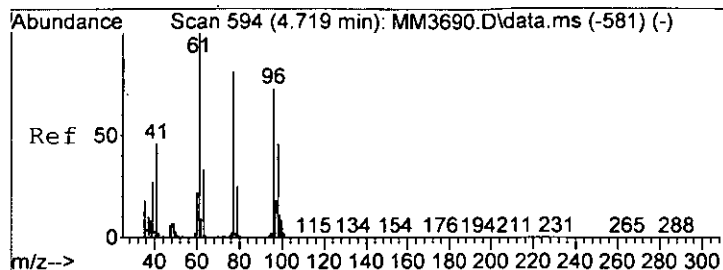
Tgt Ion: 96 Resp: 6903
Ion Ratio Lower Upper
96 100
98 49.1 44.2 84.2
61 102.2 116.9 156.9#



#28
1,1-Dichloroethane
Concen: 1.06 ppb
RT: 3.792 min Scan# 442
Delta R.T. -0.000 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

Tgt Ion: 63 Resp: 12453
Ion Ratio Lower Upper
63 100
65 34.2 13.8 53.8
83 12.2 0.0 34.1





#34

cis-1,2-Dichloroethene

Concen: 171.09 ppb

RT: 4.725 min Scan# 595

Delta R.T. 0.006 min

Lab File: MM4335.D

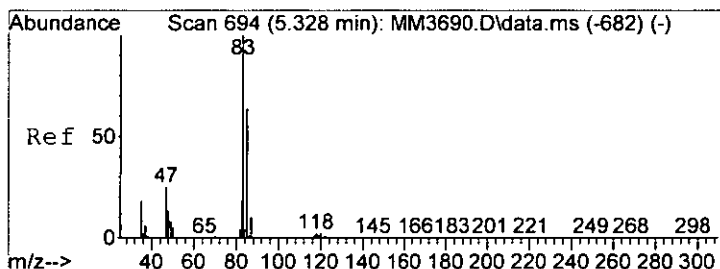
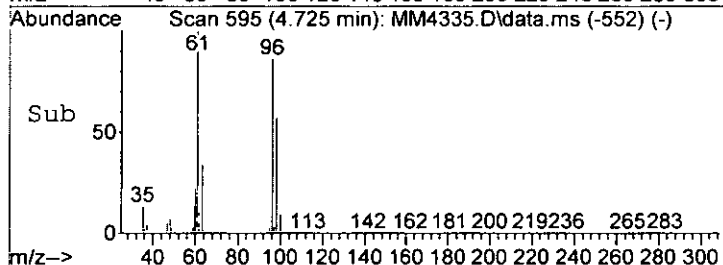
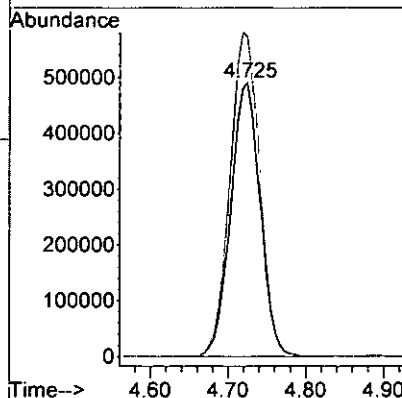
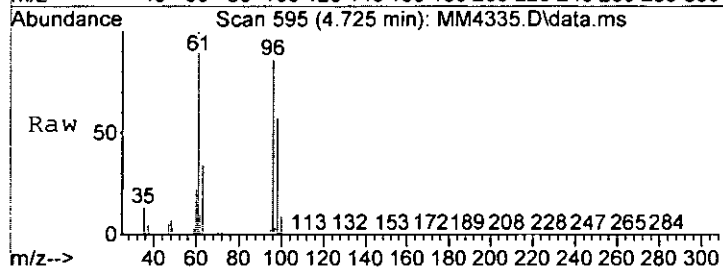
Acq: 28 Jun 2015 7:05 pm

Tgt Ion: 96 Resp: 1293840

Ion Ratio Lower Upper

96 100

61 116.8 117.6 157.6#



#40

Chloroform

Concen: 0.39 ppb

RT: 5.334 min Scan# 695

Delta R.T. 0.006 min

Lab File: MM4335.D

Acq: 28 Jun 2015 7:05 pm

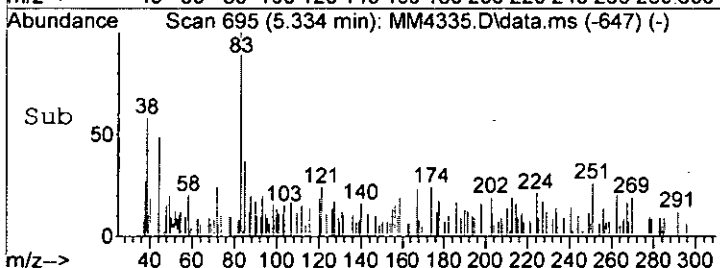
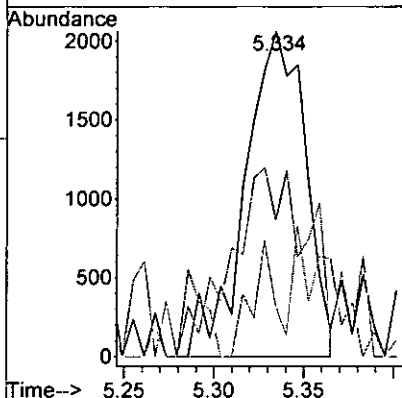
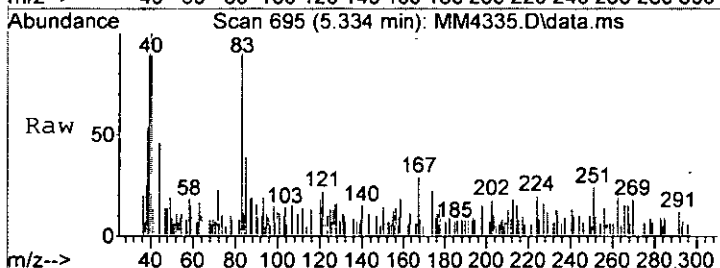
Tgt Ion: 83 Resp: 4792

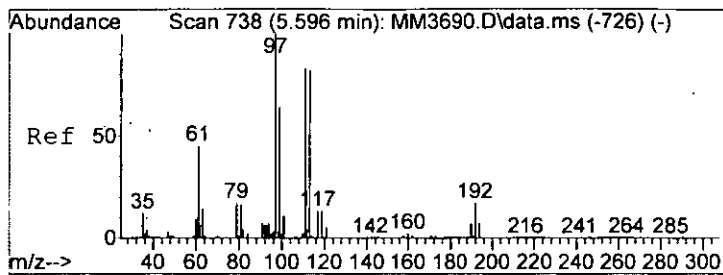
Ion Ratio Lower Upper

83 100

85 41.9 43.8 83.8#

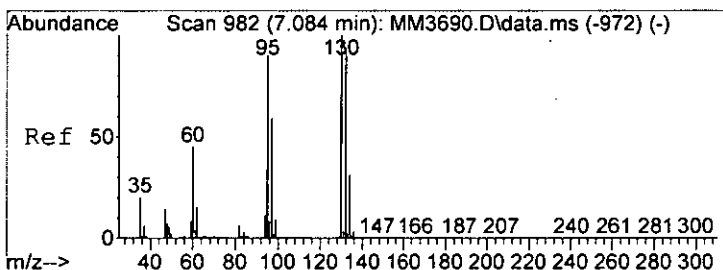
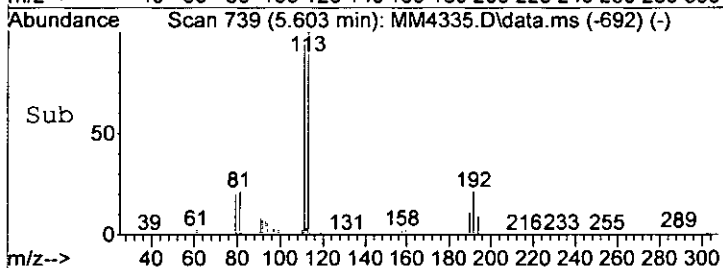
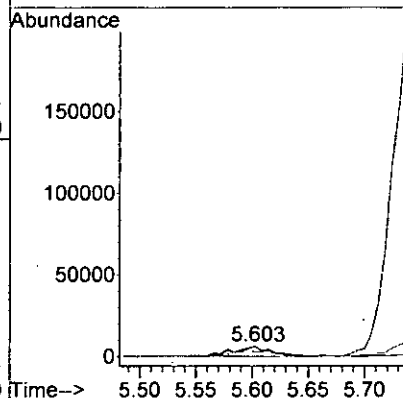
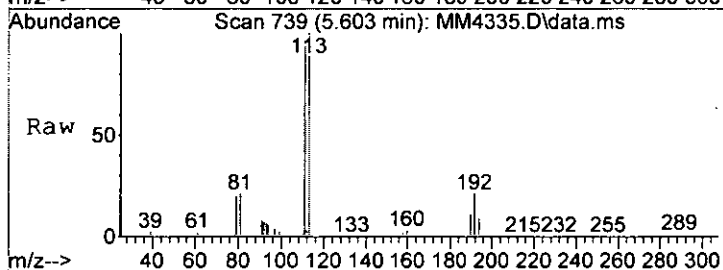
47 15.4 4.7 44.7





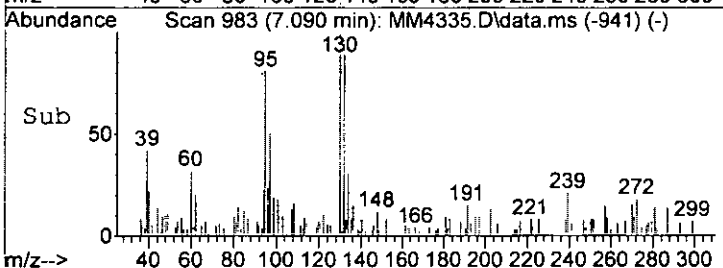
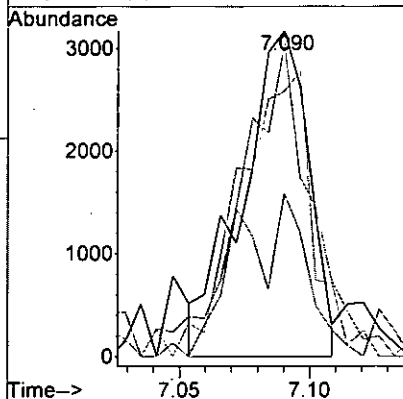
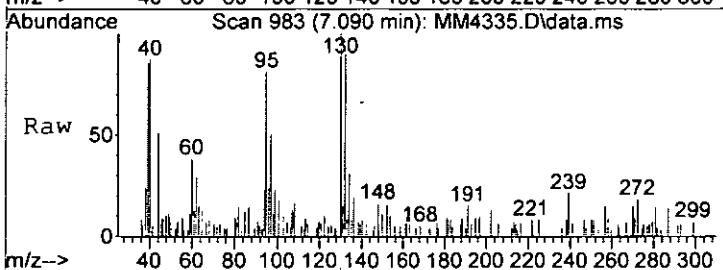
#41
1,1,1-Trichloroethane
Concen: 1.20 ppb m
RT: 5.603 min Scan# 739
Delta R.T. 0.006 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

Tgt Ion: 97 Resp: 14242
Ion Ratio Lower Upper
97 100
99 51.8 43.8 83.8
61 44.4 25.3 65.3



#54
Trichloroethene
Concen: 0.72 ppb
RT: 7.090 min Scan# 983
Delta R.T. 0.006 min
Lab File: MM4335.D
Acq: 28 Jun 2015 7:05 pm

Tgt Ion: 130 Resp: 5599
Ion Ratio Lower Upper
130 100
132 96.1 72.7 112.7
95 81.4 69.8 109.8
97 50.0 38.8 78.8





VOLATILE ORGANICS STANDARDS DATA

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8260 Walters - W060415

Initial Calibration - Summary Report

KRG/5/15

Calibration ID: RC1500064

Instrument ID: R-MS-12

Column Name: 1

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

Initial Calibration - Summary Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Column Name: 1

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

Initial Calibration - Summary Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Column Name: 1

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

8260 Waters

Initial Calibration - Detailed Report

K26/5/15

Calibration ID: RC1500064

W060415

Instrument ID:

R-MS-12

Signal ID:

1

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

Analyte	Curve Fit	Weighting
1,1,1,2-Tetrachloroethane	Average RF	RSD = 6.0 Average RF = 0.2738
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2643	02 1.000 0.2473	03 2.000 0.2942
05 20.000 0.2774	06 50.000 0.2695	07 100.000 0.2794
09 200.000 0.2913		08 150.000 0.2873
1,1,1-Trichloroethane (TCA)	Average RF	RSD = 9.4 Average RF = 0.6880
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.8445	02 1.000 0.7201	03 2.000 0.6991
05 20.000 0.6741	06 50.000 0.6552	07 100.000 0.6311
09 200.000 0.6616		08 150.000 0.6599
1,1,2,2-Tetrachloroethane	Average RF	RSD = 6.8 Average RF = 0.4225
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4961	02 1.000 0.4041	03 2.000 0.4146
05 20.000 0.4323	06 50.000 0.4163	07 100.000 0.4131
09 200.000 0.4049		08 150.000 0.4135
1,1,2-Trichloroethane	Average RF	RSD = 3.9 Average RF = 0.1833
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.1998	02 1.000 0.1891	03 2.000 0.1761
05 20.000 0.1821	06 50.000 0.1780	07 100.000 0.1794
09 200.000 0.1818		08 150.000 0.1802
1,1,2-Trichlorotrifluoroethane	Average RF	RSD = 5.2 Average RF = 0.3640
# Amount RF	# Amount RF	# Amount RF
02 1.000 0.3994	03 2.000 0.3508	11 5.000 0.3681
06 50.000 0.3460	07 100.000 0.3409	05 20.000 0.3753
		08 150.000 0.3612
		09 200.000 0.3707
1,1-Dichloroethane (1,1-DCA)	Average RF	RSD = 5.9 Average RF = 0.6788
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.7751	02 1.000 0.6982	03 2.000 0.6825
05 20.000 0.6806	06 50.000 0.6545	11 5.000 0.6581
09 200.000 0.6666		07 100.000 0.6397
		08 150.000 0.6543
1,1-Dichloroethene (1,1-DCE)	Average RF	RSD = 7.4 Average RF = 0.3677
# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3624	02 1.000 0.4297	03 2.000 0.3796
05 20.000 0.3651	06 50.000 0.3504	07 100.000 0.3420
09 200.000 0.3758		11 5.000 0.3393
		08 150.000 0.3649

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte	Curve Fit			Weighting					
1,1-Dichloropropene	Average RF			RSD = 9.0			Average RF = 0.3441		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4225	02 1.000 0.3528	03 2.000 0.3275	04 5.000 0.3410	05 20.000 0.3336	06 50.000 0.3243	07 100.000 0.3200	08 150.000 0.3324	09 200.000 0.3426	
1,2,3-Trichlorobenzene	Average RF			RSD = 3.3			Average RF = 0.4939		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.4699	03 2.000 0.5167	04 5.000 0.4992	05 20.000 0.5122	06 50.000 0.5005	07 100.000 0.4901	08 150.000 0.4807	09 200.000 0.4817		
1,2,3-Trichloropropene	Average RF			RSD = 10.6			Average RF = 0.1286		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.1611	03 2.000 0.1270	04 5.000 0.1286	05 20.000 0.1264	06 50.000 0.1233	07 100.000 0.1234	08 150.000 0.1204	09 200.000 0.1183		
1,2,4-Trichlorobenzene	Average RF			RSD = 3.8			Average RF = 0.6041		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.6343	02 1.000 0.6020	03 2.000 0.6468	04 5.000 0.5967	05 20.000 0.6082	06 50.000 0.5976	07 100.000 0.5823	08 150.000 0.5856	09 200.000 0.5831	
1,2,4-Trimethylbenzene	Average RF			RSD = 4.0			Average RF = 2.008		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 2.136	02 1.000 2.017	03 2.000 1.946	04 5.000 1.978	05 20.000 2.150	06 50.000 1.984	07 100.000 1.940	08 150.000 1.970	09 200.000 1.948	
1,2-Dibromo-3-chloropropane (DBCP)	Average RF			RSD = 9.6			Average RF = 0.08551		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.09639	03 2.000 0.09903	04 5.000 0.08515	05 20.000 0.08214	06 50.000 0.08562	07 100.000 0.08135	08 150.000 0.07871	09 200.000 0.07572		
1,2-Dibromoethane	Average RF			RSD = 7.0			Average RF = 0.1939		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2122	02 1.000 0.2205	03 2.000 0.1817	04 5.000 0.1888	05 20.000 0.1915	06 50.000 0.1950	07 100.000 0.1852	08 150.000 0.1849	09 200.000 0.1852	
1,2-Dichloro-1,1,2-trifluoroethane (CFC)	Average RF			RSD = 7.8			Average RF = 0.5540		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.6436	03 2.000 0.5812	04 5.000 0.5598	05 20.000 0.5490	06 50.000 0.5365	07 100.000 0.5251	08 150.000 0.5036	09 200.000 0.5335		
1,2-Dichlorobenzene	Average RF			RSD = 4.0			Average RF = 1.052		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.143	02 1.000 1.044	03 2.000 1.046	04 5.000 0.9911	05 20.000 1.081	06 50.000 1.037	07 100.000 1.019	08 150.000 1.047	09 200.000 1.056	
1,2-Dichloroethane	Average RF			RSD = 8.6			Average RF = 0.3177		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3748	02 1.000 0.3541	03 2.000 0.3026	04 5.000 0.3055	05 20.000 0.3108	06 50.000 0.3034	07 100.000 0.3034	08 150.000 0.2977	09 200.000 0.3066	

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte	Curve Fit			Weighting								
1,2-Dichloroethane-d4	Average RF			RSD = 7.4			Average RF = 0.2890					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
06 50.000 0.3139	03	60.000	0.3083	11	70.000	0.2990	05	100.000	0.2806			
07 125.000 0.2726	08	150.000	0.2598									
1,2-Dichloropropane	Average RF			RSD = 6.4			Average RF = 0.2370					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01 0.500 0.2534	02	1.000	0.2629	03	2.000	0.2469	11	5.000	0.2127			
05 20.000 0.2342	06	50.000	0.2308	07	100.000	0.2266	08	150.000	0.2293			
09 200.000 0.2365												
1,3,5-Trichlorobenzene	Average RF			RSD = 5.7			Average RF = 0.6596					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01 0.500 0.5925	02	1.000	0.7051	03	2.000	0.6254	11	5.000	0.6646			
05 20.000 0.7106	06	50.000	0.6352	07	100.000	0.6598	08	150.000	0.6730			
09 200.000 0.6700												
1,3,5-Trimethylbenzene	Average RF			RSD = 3.3			Average RF = 1.989					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01 0.500 1.898	02	1.000	2.063	03	2.000	1.951	11	5.000	1.964			
05 20.000 2.109	06	50.000	1.976	07	100.000	1.924	08	150.000	2.006			
09 200.000 2.008												
1,3-Dichlorobenzene	Average RF			RSD = 3.1			Average RF = 1.125					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01 0.500 1.156	02	1.000	1.148	03	2.000	1.130	11	5.000	1.078			
05 20.000 1.188	06	50.000	1.098	07	100.000	1.088	08	150.000	1.114			
09 200.000 1.127												
1,3-Dichloropropane	Average RF			RSD = 4.4			Average RF = 0.3283					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02 1.000 0.3028	03	2.000	0.3111	11	5.000	0.3423	05	20.000	0.3363			
06 50.000 0.3449	07	100.000	0.3289	08	150.000	0.3298	09	200.000	0.3303			
1,4-Dichlorobenzene	Average RF			RSD = 4.9			Average RF = 1.172					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02 1.000 1.197	03	2.000	1.282	11	5.000	1.147	05	20.000	1.223			
06 50.000 1.138	07	100.000	1.111	08	150.000	1.135	09	200.000	1.143			
1,4-Dioxane	Average RF			RSD = 18.3			Average RF = 0.001904					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
03 40.000 0.002602	11	100.000	0.002047	05	400.000	0.001986	06	1000.000	0.001732			
07 2000.000 0.001690	08	3000.000	0.001621	09	4000.000	0.001653						
1-Butanol	Average RF			RSD = 4.8			Average RF = 0.004180					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02 50.000 0.004139	03	100.000	0.004571	11	250.000	0.003978	05	1000.000	0.004086			
06 2500.000 0.004321	07	5000.000	0.004294	08	7500.000	0.004037	09	10000.000	0.004012			
1-Chloro-4-(trifluoromethyl)benzene	Average RF			RSD = 4.5			Average RF = 0.3476					
# Amount RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01 0.500 0.3476	02	1.000	0.3338	03	2.000	0.3253	11	5.000	0.3435			
05 20.000 0.3552	06	50.000	0.3327	07	100.000	0.3532	08	150.000	0.3625			
09 200.000 0.3747												

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte	Curve Fit			Weighting							
2,2-Dichloro-1,1,1-trifluoroethane (CFC)											
Average RF			RSD = 9.1			Average RF = 0.6437					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7339	02	1.000	0.7482	03	2.000	0.6365	11	5.000	0.6123
05	20.000	0.6454	06	50.000	0.6226	07	100.000	0.6011	08	150.000	0.5767
09	200.000	0.6168									
2,2-Dichloropropane											
Average RF			RSD = 3.4			Average RF = 0.6467					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.6792	03	2.000	0.6332	11	5.000	0.6314	05	20.000	0.6746
06	50.000	0.6502	07	100.000	0.6133	08	150.000	0.6475	09	200.000	0.6443
2,3,6-Trichlorotoluene											
Average RF			RSD = 5.8			Average RF = 0.3395					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.3837	03	2.000	0.3189	11	5.000	0.3432	05	20.000	0.3402
06	50.000	0.3309	07	100.000	0.3241	08	150.000	0.3333	09	200.000	0.3420
2,4,5-Trichlorotoluene											
Average RF			RSD = 5.1			Average RF = 0.3948					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4312	03	2.000	0.4019	11	5.000	0.3868	05	20.000	0.4117
06	50.000	0.3676	07	100.000	0.3748	08	150.000	0.3918	09	200.000	0.3927
2,4-, 2,5-, and 2,6-Dichlorotoluene Coefut											
Average RF			RSD = 2.9			Average RF = 0.8856					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	1.500	0.9161	02	3.000	0.8657	03	6.000	0.8995	11	15.000	0.8877
05	60.000	0.9185	06	150.000	0.8379	07	300.000	0.8734	08	450.000	0.8934
09	600.000	0.8786									
2,4-Dichlorobenzotrifluoride											
Average RF			RSD = 4.2			Average RF = 0.4190					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
02	1.000	0.4043	03	2.000	0.4077	11	5.000	0.4163	05	20.000	0.4405
06	50.000	0.3917	07	100.000	0.4180	08	150.000	0.4380	09	200.000	0.4360
2,5-Dichlorobenzotrifluoride											
Average RF			RSD = 5.5			Average RF = 0.4712					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.5053	02	1.000	0.4437	03	2.000	0.4334	11	5.000	0.4663
05	20.000	0.4809	06	50.000	0.4480	07	100.000	0.4698	08	150.000	0.4941
09	200.000	0.4988									
2-Butanone (MEK)											
Average RF			RSD = 6.1			Average RF = 0.09211					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
11	5.000	0.08561	05	20.000	0.09835	06	50.000	0.09705	07	100.000	0.09602
08	150.000	0.08878	09	200.000	0.08686						
2-Chloro-1,3-butadiene											
Average RF			RSD = 3.6			Average RF = 0.7387					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.7590	02	1.000	0.7631	03	2.000	0.6952	11	5.000	0.7283
05	20.000	0.7833	06	50.000	0.7184	07	100.000	0.7218	08	150.000	0.7397
09	200.000	0.7398									
2-Chlorobenzotrifluoride											
Average RF			RSD = 7.4			Average RF = 0.7253					
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.500	0.8364	02	1.000	0.7253	03	2.000	0.7206	11	5.000	0.7713
05	20.000	0.7118	06	50.000	0.6499	07	100.000	0.6728	08	150.000	0.7161
09	200.000	0.7233									

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte	Curve Fit	Weighting									
2-Chloroethyl Vinyl Ether	Average RF		RSD = 5.5		Average RF = 0.1094						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.1038	03 2.000 0.09760		11 5.000 0.1145		05 20.000 0.1135		08 150.000 0.1085		09 200.000 0.1093		
06 50.000 0.1149	07 100.000 0.1129										
2-Chlorotoluene	Average RF		RSD = 4.3		Average RF = 1.610						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 1.664	02 1.000 1.459		03 2.000 1.622		11 5.000 1.607		07 100.000 1.578		08 150.000 1.619		
05 20.000 1.714	06 50.000 1.606										
09 200.000 1.622											
2-Hexanone	Average RF		RSD = 8.8		Average RF = 0.1012						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
03 2.000 0.08814	11 5.000 0.1131		05 20.000 0.1070		06 50.000 0.1081		09 200.000 0.09523				
07 100.000 0.1026	08 150.000 0.09447										
2-Methyl-1-propanol	Average RF		RSD = 9.8		Average RF = 0.006582						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
03 40.000 0.007989	11 100.000 0.006336		05 400.000 0.006595		06 1000.000 0.006463		09 4000.000 0.006097				
07 2000.000 0.006413	08 3000.000 0.006182										
2-Methyl-2-propanol	Average RF		RSD = 4.4		Average RF = 0.02483						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
03 40.000 0.02472	11 100.000 0.02398		05 400.000 0.02522		06 1000.000 0.02677		09 4000.000 0.02344				
07 2000.000 0.02540	08 3000.000 0.02426										
2-Nitropropane	Average RF		RSD = 10.1		Average RF = 0.04423						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 2.000 0.04492	03 4.000 0.04844		11 10.000 0.03375		05 40.000 0.04446		08 300.000 0.04443		09 400.000 0.04518		
06 100.000 0.04572	07 200.000 0.04693										
2-Propanol	Average RF		RSD = 6.1		Average RF = 0.01392						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 20.000 0.01451	03 40.000 0.01522		11 100.000 0.01324		05 400.000 0.01411		08 3000.000 0.01264		09 4000.000 0.01316		
06 1000.000 0.01442	07 2000.000 0.01406										
3,4- and 2,3-Dichlorotoluene Coelution	Average RF		RSD = 4.5		Average RF = 0.9488						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 1.000 1.042	02 2.000 0.9343		03 4.000 0.9098		11 10.000 0.9351		07 200.000 0.9391		08 300.000 0.9512		
05 40.000 0.9903	06 100.000 0.9071										
09 400.000 0.9301											
3,4-Dichlorobenzotrifluoride	Average RF		RSD = 6.4		Average RF = 0.4749						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 0.4924	02 1.000 0.4792		03 2.000 0.4701		11 5.000 0.4211		07 100.000 0.4670		08 150.000 0.5067		
05 20.000 0.4747	06 50.000 0.4431										
09 200.000 0.5193											
3-Chloro-1-propene	Average RF		RSD = 6.5		Average RF = 0.2213						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.2421	03 2.000 0.2152		11 5.000 0.2339		05 20.000 0.2377		08 150.000 0.2081		09 200.000 0.2069		
06 50.000 0.2182	07 100.000 0.2082										

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte	Curve Fit			Weighting					
3-Chlorobenzotrifluoride	Average RF			RSD = 4.2			Average RF = 0.3837		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3726	02 1.000 0.3657	03 2.000 0.3756	11 5.000 0.3791	05 20.000 0.3852	06 50.000 0.3697	07 100.000 0.3888	08 150.000 0.4034	09 200.000 0.4135	
3-Chlorotoluene	Average RF			RSD = 3.8			Average RF = 1.706		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.715	02 1.000 1.610	03 2.000 1.738	11 5.000 1.704	05 20.000 1.781	06 50.000 1.608	07 100.000 1.678	08 150.000 1.787	09 200.000 1.730	
4-Bromofluorobenzene	Average RF			RSD = 7.4			Average RF = 0.4490		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
06 50.000 0.4974	03 60.000 0.4701	11 70.000 0.4610	05 100.000 0.4353	07 125.000 0.4224	08 150.000 0.4078				
4-Chlorotoluene	Average RF			RSD = 3.4			Average RF = 1.990		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.937	02 1.000 1.855	03 2.000 2.070	11 5.000 2.002	05 20.000 2.084	06 50.000 1.999	07 100.000 1.978	08 150.000 1.986	09 200.000 2.004	
4-Isopropyltoluene	Average RF			RSD = 4.6			Average RF = 1.869		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.753	02 1.000 1.793	03 2.000 1.939	11 5.000 1.908	05 20.000 2.041	06 50.000 1.878	07 100.000 1.814	08 150.000 1.863	09 200.000 1.828	
4-Methyl-2-pentanone	Average RF			RSD = 3.9			Average RF = 0.1351		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 2.000 0.1360	11 5.000 0.1275	05 20.000 0.1387	06 50.000 0.1416	07 100.000 0.1395	08 150.000 0.1309	09 200.000 0.1316			
Acetone	Average RF			RSD = 10.0			Average RF = 0.07009		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 2.000 0.08328	11 5.000 0.07516	05 20.000 0.07049	06 50.000 0.06483	07 100.000 0.06403	08 150.000 0.06522	09 200.000 0.06761			
Acetonitrile	Average RF			RSD = 14.4			Average RF = 0.008996		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 10.000 0.009063	11 25.000 0.006571	05 100.000 0.008901	06 250.000 0.008295	07 500.000 0.009578	08 750.000 0.01039	09 1000.000 0.01017			
Acrolein	Average RF			RSD = 16.1			Average RF = 0.03600		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 5.000 0.04187	03 10.000 0.02303	11 25.000 0.03305	05 100.000 0.03780	06 250.000 0.03879	07 500.000 0.03907	08 750.000 0.03755	09 1000.000 0.03684		
Acrylonitrile	Average RF			RSD = 7.6			Average RF = 0.07966		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 5.000 0.09388	03 10.000 0.07805	11 25.000 0.07323	05 100.000 0.07812	06 250.000 0.07981	07 500.000 0.07928	08 750.000 0.07826	09 1000.000 0.07666		

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte	Curve Fit			Weighting					
Benzene	Average RF			RSD = 5.6			Average RF = 0.9909		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.127	02 1.000 0.9977	03 2.000 0.9623	04 5.000 0.9395	05 20.000 1.011	06 50.000 0.9587	07 100.000 0.9572	08 150.000 0.9696	09 200.000 0.9952	
Bromobenzene	Average RF			RSD = 3.0			Average RF = 0.5788		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.5940	02 1.000 0.5945	03 2.000 0.5707	04 5.000 0.5836	05 20.000 0.6063	06 50.000 0.5656	07 100.000 0.5526	08 150.000 0.5653	09 200.000 0.5761	
Bromochloromethane	Average RF			RSD = 10.8			Average RF = 0.2421		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.2996	03 2.000 0.2535	04 5.000 0.2407	05 20.000 0.2421	06 50.000 0.2389	07 100.000 0.2217	08 150.000 0.2219	09 200.000 0.2186		
Bromodichloromethane	Average RF			RSD = 4.7			Average RF = 0.3420		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3514	02 1.000 0.3734	03 2.000 0.3529	04 5.000 0.3440	05 20.000 0.3442	06 50.000 0.3286	07 100.000 0.3221	08 150.000 0.3249	09 200.000 0.3367	
Bromoform	Average RF			RSD = 2.8			Average RF = 0.2560		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.2406	03 2.000 0.2516	04 5.000 0.2630	05 20.000 0.2623	06 50.000 0.2595	07 100.000 0.2545	08 150.000 0.2570	09 200.000 0.2592		
Bromomethane	Average RF			RSD = 7.1			Average RF = 0.2975		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3166	02 1.000 0.2864	03 2.000 0.3135	04 5.000 0.2677	05 20.000 0.2826	06 50.000 0.2797	07 100.000 0.2862	08 150.000 0.3169	09 200.000 0.3276	
Carbon Disulfide	Average RF			RSD = 6.1			Average RF = 1.178		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.331	02 1.000 1.235	03 2.000 1.181	04 5.000 1.124	05 20.000 1.220	06 50.000 1.119	07 100.000 1.116	08 150.000 1.141	09 200.000 1.140	
Carbon Tetrachloride	Average RF			RSD = 3.5			Average RF = 0.1088		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.1107	03 2.000 0.1140	04 5.000 0.1070	05 20.000 0.1103	06 50.000 0.1049	07 100.000 0.1035	08 150.000 0.1071	09 200.000 0.1129		
Chlorobenzene	Average RF			RSD = 5.3			Average RF = 0.8139		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.9225	02 1.000 0.7884	03 2.000 0.7875	04 5.000 0.7847	05 20.000 0.8294	06 50.000 0.8067	07 100.000 0.7906	08 150.000 0.8006	09 200.000 0.8146	
Chloroethane	Average RF			RSD = 8.9			Average RF = 0.3477		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4106	02 1.000 0.3816	03 2.000 0.3434	04 5.000 0.3124	05 20.000 0.3572	06 50.000 0.3343	07 100.000 0.3223	08 150.000 0.3308	09 200.000 0.3365	

Initial Calibration - Detailed Report

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

Analyte	Curve Fit	Weighting									
Chloroform	Average RF		RSD = 6.2		Average RF = 0.7154						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.7762	03 2.000 0.7808		11 5.000 0.7185		05 20.000 0.7246		09 200.000 0.6962				
06 50.000 0.6814	07 100.000 0.6601		08 150.000 0.6853								
Chloromethane	Average RF		RSD = 6.6		Average RF = 0.4149						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 0.4680	02 1.000 0.4425		03 2.000 0.4223		11 5.000 0.3852		08 150.000 0.4063				
05 20.000 0.4232	06 50.000 0.4059		07 100.000 0.3844								
09 200.000 0.3960											
Cyclohexane	Average RF		RSD = 8.6		Average RF = 0.2271						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.2681	03 2.000 0.2448		11 5.000 0.2183		05 20.000 0.2178		09 200.000 0.2242				
06 50.000 0.2185	07 100.000 0.2148		08 150.000 0.2103								
Cyclohexanone	Average RF		RSD = 3.8		Average RF = 0.01376						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 20.000 0.01410	03 40.000 0.01374		11 100.000 0.01393		05 400.000 0.01405		09 4000.000 0.01303				
06 1000.000 0.01459	07 2000.000 0.01351		08 3000.000 0.01313								
Dibromochloromethane	Average RF		RSD = 9.3		Average RF = 0.2472						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 0.3000	02 1.000 0.2509		03 2.000 0.2159		11 5.000 0.2281		08 150.000 0.2443				
05 20.000 0.2491	06 50.000 0.2506		07 100.000 0.2410								
09 200.000 0.2447											
Dibromofluoromethane	Average RF		RSD = 6.3		Average RF = 0.2706						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
06 50.000 0.2935	03 60.000 0.2817		11 70.000 0.2815		05 100.000 0.2561						
07 125.000 0.2586	08 150.000 0.2521										
Dibromomethane	Average RF		RSD = 8.9		Average RF = 0.1277						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.1450	03 2.000 0.1471		11 5.000 0.1204		05 20.000 0.1227		09 200.000 0.1234				
06 50.000 0.1218	07 100.000 0.1210		08 150.000 0.1201								
Dichlorodifluoromethane (CFC 12)	Average RF		RSD = 6.3		Average RF = 0.4266						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 0.4455	02 1.000 0.4374		03 2.000 0.3751		11 5.000 0.3960		08 150.000 0.4299				
05 20.000 0.4593	06 50.000 0.4379		07 100.000 0.4149								
09 200.000 0.4437											
Dichlorofluoromethane (CFC 21)	Average RF		RSD = 4.7		Average RF = 0.8681						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
01 0.500 0.9524	02 1.000 0.9004		03 2.000 0.8773		11 5.000 0.8514		08 150.000 0.8128				
05 20.000 0.8769	06 50.000 0.8609		07 100.000 0.8337								
09 200.000 0.8466											
Dichloromethane	Average RF		RSD = 6.9		Average RF = 0.3908						
# Amount RF	# Amount RF		# Amount RF		# Amount RF		# Amount RF		# Amount RF		
02 1.000 0.4546	03 2.000 0.3951		11 5.000 0.3823		05 20.000 0.3876		09 200.000 0.3830				
06 50.000 0.3790	07 100.000 0.3683		08 150.000 0.3764								

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte	Curve Fit			Weighting		
Diethyl Ether	Average RF			RSD = 7.1		
	Average RF = 0.3453					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.3968	03 2.000 0.3651	11 5.000 0.3399	05 20.000 0.3386	06 50.000 0.3416	07 100.000 0.3285	08 150.000 0.3254
09 200.000 0.3266						
Diisopropyl Ether	Average RF			RSD = 5.0		
	Average RF = 1.180					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.326	02 1.000 1.213	03 2.000 1.160	11 5.000 1.160	05 20.000 1.147	06 50.000 1.144	07 100.000 1.138
09 200.000 1.177						
Ethyl Methacrylate	Average RF			RSD = 9.8		
	Average RF = 0.2473					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.3026	02 1.000 0.2252	03 2.000 0.2466	11 5.000 0.2141	05 20.000 0.2452	06 50.000 0.2511	07 100.000 0.2506
09 200.000 0.2462						
Ethyl tert-Butyl Ether	Average RF			RSD = 6.0		
	Average RF = 1.176					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.338	02 1.000 1.214	03 2.000 1.218	11 5.000 1.139	05 20.000 1.145	06 50.000 1.146	07 100.000 1.132
09 200.000 1.129						
Ethylbenzene	Average RF			RSD = 6.7		
	Average RF = 0.4406					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.4957	02 1.000 0.4425	03 2.000 0.3886	11 5.000 0.4312	05 20.000 0.4656	06 50.000 0.4347	07 100.000 0.4241
09 200.000 0.4499						
Hexachlorobutadiene	Average RF			RSD = 10.6		
	Average RF = 0.2326					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.2686	03 2.000 0.2721	11 5.000 0.2119	05 20.000 0.2328	06 50.000 0.2173	07 100.000 0.2085	08 150.000 0.2243
09 200.000 0.2249						
Iodomethane	Linear			Equal		
	R2 = 0.9990			Y = 0.4618 X + -0.01136		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 2.000 0.2156	11 5.000 0.2473	05 20.000 0.3939	06 50.000 0.4479	07 100.000 0.4788	08 150.000 0.4603	09 200.000 0.4526
Isopropylbenzene (Cumene)	Average RF			RSD = 4.3		
	Average RF = 2.321					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 2.355	02 1.000 2.388	03 2.000 2.464	11 5.000 2.245	05 20.000 2.463	06 50.000 2.269	07 100.000 2.216
09 200.000 2.225						
Methacrylonitrile	Average RF			RSD = 11.6		
	Average RF = 0.1050					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.1183	03 2.000 0.1284	11 5.000 0.1016	05 20.000 0.1038	06 50.000 0.1008	07 100.000 0.09777	08 150.000 0.09608
09 200.000 0.09293						
Methyl Acetate	Average RF			RSD = 6.7		
	Average RF = 0.1526					
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.1631	03 2.000 0.1720	11 5.000 0.1472	05 20.000 0.1472	06 50.000 0.1539	07 100.000 0.1501	08 150.000 0.1400
09 200.000 0.1475						

Initial Calibration - Detailed Report

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

Analyte	Curve Fit			Weighting		
Methyl Methacrylate	Average RF			RSD = 4.6		
				Average RF = 0.1156		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.1144	03 2.000 0.1258	11 5.000 0.1078	05 20.000 0.1185	06 50.000 0.1178	07 100.000 0.1155	08 150.000 0.1120
09 200.000 0.1132						
Methyl tert-Butyl Ether	Average RF			RSD = 3.0		
				Average RF = 0.9554		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.9069	02 1.000 0.9273	03 2.000 0.9404	11 5.000 0.9981	05 20.000 0.9673	06 50.000 0.9848	07 100.000 0.9689
09 200.000 0.9493						
Methylcyclohexane	Average RF			RSD = 3.5		
				Average RF = 0.2502		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
02 1.000 0.2346	03 2.000 0.2517	11 5.000 0.2495	05 20.000 0.2567	06 50.000 0.2508	07 100.000 0.2503	08 150.000 0.2435
09 200.000 0.2644						
Naphthalene	Average RF			RSD = 6.5		
				Average RF = 1.268		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.455	02 1.000 1.261	03 2.000 1.259	11 5.000 1.207	05 20.000 1.292	06 50.000 1.306	07 100.000 1.251
09 200.000 1.175						
Propionitrile	Average RF			RSD = 7.8		
				Average RF = 0.02812		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 10.000 0.03121	11 25.000 0.02461	05 100.000 0.02862	06 250.000 0.03002	07 500.000 0.02852	08 750.000 0.02718	09 1000.000 0.02671
Styrene	Average RF			RSD = 2.1		
				Average RF = 0.8926		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.8765	02 1.000 0.8915	03 2.000 0.8708	11 5.000 0.8688	05 20.000 0.9049	06 50.000 0.8984	07 100.000 0.8885
09 200.000 0.9231						
Tetrachloroethene (PCE)	Average RF			RSD = 8.5		
				Average RF = 0.2293		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 0.2569	02 1.000 0.2535	03 2.000 0.2439	11 5.000 0.2031	05 20.000 0.2393	06 50.000 0.2123	07 100.000 0.2128
09 200.000 0.2230						
Tetrahydrofuran (THF)	Average RF			RSD = 13.7		
				Average RF = 0.06265		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
03 2.000 0.06791	11 5.000 0.07959	05 20.000 0.06224	06 50.000 0.05859	07 100.000 0.05817	08 150.000 0.05653	09 200.000 0.05550
Toluene	Average RF			RSD = 2.1		
				Average RF = 1.137		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
01 0.500 1.163	02 1.000 1.174	03 2.000 1.129	11 5.000 1.112	05 20.000 1.162	06 50.000 1.118	07 100.000 1.112
09 200.000 1.138						
Toluene-d8	Average RF			RSD = 7.5		
				Average RF = 1.182		
# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF	# Amount RF
06 50.000 1.271	03 60.000 1.262	11 70.000 1.244	05 100.000 1.142	07 125.000 1.104	08 150.000 1.067	

Initial Calibration - Detailed Report

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

Analyte	Curve Fit			Weighting								
Trichloroethene (TCE)			Average RF			RSD = 3.9			Average RF = 0.2675			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.2848	02	1.000	0.2560	03	2.000	0.2566	11	5.000	0.2588	
05	20.000	0.2766	06	50.000	0.2630	07	100.000	0.2618	08	150.000	0.2723	
09	200.000	0.2775										
Trichlorofluoromethane (CFC 11)			Average RF			RSD = 4.4			Average RF = 0.7809			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.7916	02	1.000	0.8475	03	2.000	0.8023	11	5.000	0.7625	
05	20.000	0.8007	06	50.000	0.7795	07	100.000	0.7284	08	150.000	0.7534	
09	200.000	0.7621										
Vinyl Acetate			Average RF			RSD = 14.2			Average RF = 0.08139			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
02	1.000	0.1089	03	2.000	0.07806	11	5.000	0.07872	05	20.000	0.08296	
06	50.000	0.07978	07	100.000	0.07629	08	150.000	0.07338	09	200.000	0.07303	
Vinyl Chloride			Average RF			RSD = 9.4			Average RF = 0.5240			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.6344	02	1.000	0.5555	03	2.000	0.4732	11	5.000	0.4801	
05	20.000	0.5419	06	50.000	0.5194	07	100.000	0.4934	08	150.000	0.5078	
09	200.000	0.5103										
cis-1,2-Dichloroethene			Average RF			RSD = 3.8			Average RF = 0.4380			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.4636	02	1.000	0.4647	03	2.000	0.4332	11	5.000	0.4246	
05	20.000	0.4310	06	50.000	0.4293	07	100.000	0.4155	08	150.000	0.4376	
09	200.000	0.4426										
cis-1,3-Dichloropropene			Average RF			RSD = 3.4			Average RF = 0.3982			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.4282	02	1.000	0.4038	03	2.000	0.3966	11	5.000	0.3768	
05	20.000	0.3960	06	50.000	0.3928	07	100.000	0.3904	08	150.000	0.3966	
09	200.000	0.4022										
m,p-Xylenes			Average RF			RSD = 2.7			Average RF = 0.5370			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	1.000	0.5477	02	2.000	0.5477	03	4.000	0.5216	11	10.000	0.5122	
05	40.000	0.5523	06	100.000	0.5415	07	200.000	0.5224	08	300.000	0.5375	
09	400.000	0.5500										
n-Butyl Acetate			Average RF			RSD = 5.9			Average RF = 0.2659			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	0.2929	02	1.000	0.2808	03	2.000	0.2596	11	5.000	0.2553	
05	20.000	0.2670	06	50.000	0.2754	07	100.000	0.2665	08	150.000	0.2409	
09	200.000	0.2544										
n-Butylbenzene			Average RF			RSD = 5.2			Average RF = 1.677			
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF	
01	0.500	1.838	02	1.000	1.587	03	2.000	1.564	11	5.000	1.660	
05	20.000	1.763	06	50.000	1.658	07	100.000	1.610	08	150.000	1.711	
09	200.000	1.701										

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte	Curve Fit			Weighting		
n-Heptane	Average RF			RSD = 6.6		
				Average RF = 0.2111		
#	Amount	RF	#	Amount	RF	#
02	1.000	0.2370	03	2.000	0.2265	11
06	50.000	0.2048	07	100.000	0.1985	08
						150.000
						200.000
						2.2011
						0.2124
n-Propylbenzene	Average RF			RSD = 4.5		
				Average RF = 2.612		
#	Amount	RF	#	Amount	RF	#
01	0.500	2.642	02	1.000	2.566	11
05	20.000	2.850	06	50.000	2.625	08
09	200.000	2.446				150.000
						2.534
o-Xylene	Average RF			RSD = 4.8		
				Average RF = 0.5200		
#	Amount	RF	#	Amount	RF	#
01	0.500	0.5425	02	1.000	0.4752	11
05	20.000	0.5375	06	50.000	0.5225	08
09	200.000	0.5530				150.000
						0.5207
						0.5290
sec-Butylbenzene	Average RF			RSD = 6.3		
				Average RF = 2.197		
#	Amount	RF	#	Amount	RF	#
01	0.500	2.503	02	1.000	2.107	11
05	20.000	2.317	06	50.000	2.170	08
09	200.000	2.086				150.000
						2.128
						2.129
tert-Amyl Methyl Ether	Average RF			RSD = 5.3		
				Average RF = 1.026		
#	Amount	RF	#	Amount	RF	#
01	0.500	1.069	02	1.000	1.152	11
05	20.000	1.011	06	50.000	1.030	08
09	200.000	1.002				150.000
						0.9823
						1.006
tert-Butylbenzene	Average RF			RSD = 6.1		
				Average RF = 1.602		
#	Amount	RF	#	Amount	RF	#
01	0.500	1.819	02	1.000	1.528	11
05	20.000	1.684	06	50.000	1.556	08
09	200.000	1.572				150.000
						1.641
						1.565
trans-1,2-Dichloroethene	Average RF			RSD = 4.0		
				Average RF = 0.4109		
#	Amount	RF	#	Amount	RF	#
01	0.500	0.4072	02	1.000	0.4403	11
05	20.000	0.4127	06	50.000	0.3946	08
09	200.000	0.4086				150.000
						0.4109
						0.4057
trans-1,3-Dichloropropene	Average RF			RSD = 2.6		
				Average RF = 0.3408		
#	Amount	RF	#	Amount	RF	#
01	0.500	0.3399	02	1.000	0.3435	11
05	20.000	0.3431	06	50.000	0.3438	08
09	200.000	0.3511				150.000
						0.3391
						0.3450
						0.3419
trans-1,4-Dichloro-2-butene	Average RF			RSD = 7.3		
				Average RF = 0.1249		
#	Amount	RF	#	Amount	RF	#
02	1.000	0.1441	03	2.000	0.1115	11
06	50.000	0.1247	07	100.000	0.1246	08
						150.000
						200.000
						0.1216
						0.1222

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte

1,1,1,2-Tetrachloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.48	-3.4	02	1.000	0.90	-9.7	03	2.000	2.15	7.5
11	5.000	4.62	-7.5	05	20.000	20.27	1.3	06	50.000	49.22	-1.6
07	100.000	102.06	2.1	08	150.000	157.40	4.9	09	200.000	212.83	6.4

1,1,1-Trichloroethane (TCA)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.61	22.8	02	1.000	1.05	4.7	03	2.000	2.03	1.6
11	5.000	4.69	-6.1	05	20.000	19.60	-2.0	06	50.000	47.62	-4.8
07	100.000	91.74	-8.3	08	150.000	143.89	-4.1	09	200.000	192.33	-3.8

1,1,2,2-Tetrachloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.59	17.4	02	1.000	0.96	-4.4	03	2.000	1.96	-1.9
11	5.000	4.82	-3.5	05	20.000	20.46	2.3	06	50.000	49.26	-1.5
07	100.000	97.77	-2.2	08	150.000	146.80	-2.1	09	200.000	191.69	-4.2

1,1,2-Trichloroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.54	9.0	02	1.000	1.03	3.2	03	2.000	1.92	-4.0
11	5.000	5.01	0.2	05	20.000	19.86	-0.7	06	50.000	48.54	-2.9
07	100.000	97.82	-2.2	08	150.000	147.43	-1.7	09	200.000	198.28	-0.9

1,1,2-Trichlorotrifluoroethane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
02	1.000	1.10	9.7	03	2.000	1.93	-3.6	11	5.000	5.06	1.1
05	20.000	20.62	3.1	06	50.000	47.52	-5.0	07	100.000	93.63	-6.4
08	150.000	148.83	-0.8	09	200.000	203.65	1.8				

1,1-Dichloroethane (1,1-DCA)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.57	14.2	02	1.000	1.03	2.8	03	2.000	2.01	0.5
11	5.000	4.85	-3.1	05	20.000	20.05	0.3	06	50.000	48.21	-3.6
07	100.000	94.23	-5.8	08	150.000	144.57	-3.6	09	200.000	196.38	-1.8

1,1-Dichloroethene (1,1-DCE)

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.49	-1.4	02	1.000	1.17	16.9	03	2.000	2.06	3.2
11	5.000	4.61	-7.7	05	20.000	19.86	-0.7	06	50.000	47.65	-4.7
07	100.000	93.01	-7.0	08	150.000	148.86	-0.8	09	200.000	204.40	2.2

1,1-Dichloropropene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.61	22.8	02	1.000	1.03	2.5	03	2.000	1.90	-4.8
11	5.000	4.96	-0.9	05	20.000	19.39	-3.0	06	50.000	47.12	-5.8
07	100.000	92.99	-7.0	08	150.000	144.89	-3.4	09	200.000	199.17	-0.4

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1,2,3-Trichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	1.000	0.95	-4.8	03	2.000	2.09	4.6	11	5.000	5.05	1.1
05	20.000	20.74	3.7	06	50.000	50.67	1.3	07	100.000	99.23	-0.8
08	150.000	146.00	-2.7	09	200.000	195.05	-2.5				

1,2,3-Trichloropropane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	1.000	1.25	25.3	03	2.000	1.98	-1.2	11	5.000	5.00	0.0
05	20.000	19.67	-1.7	06	50.000	47.95	-4.1	07	100.000	95.96	-4.0
08	150.000	140.46	-6.4	09	200.000	184.12	-7.9				

1,2,4-Trichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.53	5.0	02	1.000	1.00	-0.3	03	2.000	2.14	7.1
11	5.000	4.94	-1.2	05	20.000	20.14	0.7	06	50.000	49.47	-1.1
07	100.000	96.40	-3.6	08	150.000	145.41	-3.1	09	200.000	193.05	-3.5

1,2,4-Trimethylbenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.53	6.4	02	1.000	1.00	0.5	03	2.000	1.94	-3.1
11	5.000	4.93	-1.5	05	20.000	21.42	7.1	06	50.000	49.41	-1.2
07	100.000	96.61	-3.4	08	150.000	147.21	-1.9	09	200.000	194.03	-3.0

1,2-Dibromo-3-chloropropane (DBCP)

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	1.000	1.13	12.7	03	2.000	2.32	15.8	11	5.000	4.98	-0.4
05	20.000	19.21	-3.9	06	50.000	50.06	0.1	07	100.000	95.13	-4.9
08	150.000	138.07	-8.0	09	200.000	177.10	-11.5				

1,2-Dibromoethane

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.55	9.4	02	1.000	1.14	13.7	03	2.000	1.87	-6.3
11	5.000	4.87	-2.6	05	20.000	19.75	-1.2	06	50.000	50.28	0.6
07	100.000	95.50	-4.5	08	150.000	143.06	-4.6	09	200.000	191.10	-4.5

1,2-Dichloro-1,1,2-trifluoroethane (CFC)

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
02	1.000	1.16	16.2	03	2.000	2.10	4.9	11	5.000	5.05	1.0
05	20.000	19.82	-0.9	06	50.000	48.42	-3.2	07	100.000	94.78	-5.2
08	150.000	136.35	-9.1	09	200.000	192.59	-3.7				

1,2-Dichlorobenzene

Calculated				Calculated				Calculated			
#	Amount	Conc	%D	#	Amount	Conc	%D	#	Amount	Conc	%D
01	0.500	0.54	8.7	02	1.000	0.99	-0.8	03	2.000	1.99	-0.6
11	5.000	4.71	-5.8	05	20.000	20.57	2.8	06	50.000	49.32	-1.4
07	100.000	96.93	-3.1	08	150.000	149.41	-0.4	09	200.000	200.78	0.4

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1,2-Dichloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.0	02	1.000	1.11	11.5	03	2.000	1.91	-4.7
11	5.000	4.81	-3.8	05	20.000	19.57	-2.2	06	50.000	47.75	-4.5
07	100.000	95.52	-4.5	08	150.000	140.59	-6.3	09	200.000	193.04	-3.5

1,2-Dichloroethane-d4

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.30	8.6	03	60.000	64.00	6.7	11	70.000	72.42	3.5
05	100.000	97.10	-2.9	07	125.000	117.88	-5.7	08	150.000	134.83	-10.1

1,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.9	02	1.000	1.11	10.9	03	2.000	2.08	4.2
11	5.000	4.49	-10.3	05	20.000	19.76	-1.2	06	50.000	48.69	-2.6
07	100.000	95.61	-4.4	08	150.000	145.11	-3.3	09	200.000	199.52	-0.2

1,3,5-Trichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.45	-10.2	02	1.000	1.07	6.9	03	2.000	1.90	-5.2
11	5.000	5.04	0.8	05	20.000	21.55	7.7	06	50.000	48.15	-3.7
07	100.000	100.04	0.0	08	150.000	153.04	2.0	09	200.000	203.16	1.6

1,3,5-Trimethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.48	-4.6	02	1.000	1.04	3.7	03	2.000	1.96	-1.9
11	5.000	4.94	-1.3	05	20.000	21.21	6.0	06	50.000	49.69	-0.6
07	100.000	96.72	-3.3	08	150.000	151.29	0.9	09	200.000	201.94	1.0

1,3-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.02	2.0	03	2.000	2.01	0.4
11	5.000	4.79	-4.2	05	20.000	21.12	5.6	06	50.000	48.80	-2.4
07	100.000	96.68	-3.3	08	150.000	148.51	-1.0	09	200.000	200.27	0.1

1,3-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.92	-7.8	03	2.000	1.90	-5.2	11	5.000	5.21	4.3
05	20.000	20.49	2.4	06	50.000	52.53	5.1	07	100.000	100.18	0.2
08	150.000	150.68	0.5	09	200.000	201.24	0.6				

1,4-Dichlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	2.2	03	2.000	2.19	9.4	11	5.000	4.90	-2.1
05	20.000	20.87	4.3	06	50.000	48.54	-2.9	07	100.000	94.80	-5.2
08	150.000	145.24	-3.2	09	200.000	195.08	-2.5				

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1,4-Dioxane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	54.65	36.6	11	100.000	107.47	7.5	05	400.000	417.07	4.3
06	1000.000	909.32	-9.1	07	2000.000	1,775.13	-11.2	08	3000.000	2,553.83	-14.9
09	4000.000	3,472.87	-13.2								

1-Butanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	50.000	49.51	-1.0	03	100.000	109.36	9.4	11	250.000	237.95	-4.8
05	1000.000	977.63	-2.2	06	2500.000	2,584.54	3.4	07	5000.000	5,136.73	2.7
08	7500.000	7,243.11	-3.4	09	10000.000	9,598.86	-4.0				

1-Chloro-4-(trifluoromethyl)benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.0	02	1.000	0.96	-4.0	03	2.000	1.87	-6.4
11	5.000	4.94	-1.2	05	20.000	20.44	2.2	06	50.000	47.86	-4.3
07	100.000	101.60	1.6	08	150.000	156.43	4.3	09	200.000	215.57	7.8

2,2-Dichloro-1,1,1-trifluoroethane (CFC)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.0	02	1.000	1.16	16.2	03	2.000	1.98	-1.1
11	5.000	4.76	-4.9	05	20.000	20.05	0.3	06	50.000	48.36	-3.3
07	100.000	93.38	-6.6	08	150.000	134.39	-10.4	09	200.000	191.62	-4.2

2,2-Dichloropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.05	5.0	03	2.000	1.96	-2.1	11	5.000	4.88	-2.4
05	20.000	20.86	4.3	06	50.000	50.27	0.5	07	100.000	94.83	-5.2
08	150.000	150.18	0.1	09	200.000	199.26	-0.4				

2,3,6-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	13.0	03	2.000	1.88	-6.1	11	5.000	5.05	1.1
05	20.000	20.04	0.2	06	50.000	48.73	-2.5	07	100.000	95.45	-4.6
08	150.000	147.24	-1.8	09	200.000	201.45	0.7				

2,4,5-Trichlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	9.2	03	2.000	2.04	1.8	11	5.000	4.90	-2.0
05	20.000	20.86	4.3	06	50.000	46.56	-6.9	07	100.000	94.93	-5.1
08	150.000	148.84	-0.8	09	200.000	198.92	-0.5				

2,4-, 2,5-, and 2,6-Dichlorotoluene Coelut

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.500	1.55	3.4	02	3.000	2.93	-2.3	03	6.000	6.09	1.6
11	15.000	15.03	0.2	05	60.000	62.23	3.7	06	150.000	141.91	-5.4
07	300.000	295.86	-1.4	08	450.000	453.92	0.9	09	600.000	595.21	-0.8

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2,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.96	-3.5	03	2.000	1.95	-2.7	11	5.000	4.97	-0.6
05	20.000	21.02	5.1	06	50.000	46.73	-6.5	07	100.000	99.74	-0.3
08	150.000	156.78	4.5	09	200.000	208.07	4.0				

2,5-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.2	02	1.000	0.94	-5.8	03	2.000	1.84	-8.0
11	5.000	4.95	-1.0	05	20.000	20.41	2.1	06	50.000	47.55	-4.9
07	100.000	99.72	-0.3	08	150.000	157.30	4.9	09	200.000	211.73	5.9

2-Butanone (MEK)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
11	5.000	4.65	-7.1	05	20.000	21.36	6.8	06	50.000	52.68	5.4
07	100.000	104.24	4.2	08	150.000	144.57	-3.6	09	200.000	188.60	-5.7

2-Chloro-1,3-butadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.03	3.3	03	2.000	1.88	-5.9
11	5.000	4.93	-1.4	05	20.000	21.21	6.0	06	50.000	48.62	-2.8
07	100.000	97.70	-2.3	08	150.000	150.20	0.1	09	200.000	200.29	0.1

2-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.58	15.3	02	1.000	1.00	0.0	03	2.000	1.99	-0.6
11	5.000	5.32	6.3	05	20.000	19.63	-1.9	06	50.000	44.81	-10.4
07	100.000	92.76	-7.2	08	150.000	148.09	-1.3	09	200.000	199.46	-0.3

2-Chloroethyl Vinyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.95	-5.1	03	2.000	1.78	-10.8	11	5.000	5.23	4.7
05	20.000	20.76	3.8	06	50.000	52.54	5.1	07	100.000	103.18	3.2
08	150.000	148.82	-0.8	09	200.000	199.92	0.0				

2-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.4	02	1.000	0.91	-9.4	03	2.000	2.01	0.7
11	5.000	4.99	-0.2	05	20.000	21.29	6.5	06	50.000	49.87	-0.3
07	100.000	98.02	-2.0	08	150.000	150.88	0.6	09	200.000	201.43	0.7

2-Hexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	1.74	-12.9	11	5.000	5.58	11.7	05	20.000	21.13	5.7
06	50.000	53.40	6.8	07	100.000	101.35	1.4	08	150.000	139.99	-6.7
09	200.000	188.15	-5.9								

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2-Methyl-1-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	48.55	21.4	11	100.000	96.27	-3.7	05	400.000	400.80	0.2
06	1000.000	981.84	-1.8	07	2000.000	1,948.56	-2.6	08	3000.000	2,817.52	-6.1
09	4000.000	3,705.33	-7.4								

2-Methyl-2-propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	40.000	39.82	-0.4	11	100.000	96.60	-3.4	05	400.000	406.35	1.6
06	1000.000	1,078.35	7.8	07	2000.000	2,046.14	2.3	08	3000.000	2,931.27	-2.3
09	4000.000	3,776.24	-5.6								

2-Nitropropane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	2.000	2.03	1.6	03	4.000	4.38	9.5	11	10.000	7.63	-23.7
05	40.000	40.21	0.5	06	100.000	103.37	3.4	07	200.000	212.21	6.1
08	300.000	301.35	0.5	09	400.000	408.59	2.1				

2-Propanol

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	20.85	4.3	03	40.000	43.73	9.3	11	100.000	95.10	-4.9
05	400.000	405.37	1.3	06	1000.000	1,035.83	3.6	07	2000.000	2,020.68	1.0
08	3000.000	2,723.99	-9.2	09	4000.000	3,783.05	-5.4				

3,4- and 2,3-Dichlorotoluene Coelution

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.10	9.8	02	2.000	1.97	-1.5	03	4.000	3.84	-4.1
11	10.000	9.86	-1.4	05	40.000	41.75	4.4	06	100.000	95.61	-4.4
07	200.000	197.95	-1.0	08	300.000	300.75	0.3	09	400.000	392.12	-2.0

3,4-Dichlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	3.7	02	1.000	1.01	0.9	03	2.000	1.98	-1.0
11	5.000	4.43	-11.3	05	20.000	19.99	0.0	06	50.000	46.66	-6.7
07	100.000	98.34	-1.7	08	150.000	160.06	6.7	09	200.000	218.73	9.4

3-Chloro-1-propene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	9.4	03	2.000	1.94	-2.8	11	5.000	5.29	5.7
05	20.000	21.48	7.4	06	50.000	49.31	-1.4	07	100.000	94.10	-5.9
08	150.000	141.08	-5.9	09	200.000	187.00	-6.5				

3-Chlorobenzotrifluoride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.9	02	1.000	0.95	-4.7	03	2.000	1.96	-2.1
11	5.000	4.94	-1.2	05	20.000	20.07	0.4	06	50.000	48.17	-3.7
07	100.000	101.31	1.3	08	150.000	157.70	5.1	09	200.000	215.51	7.8

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3-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.50	0.5	02	1.000	0.94	-5.6	03	2.000	2.04	1.9
11	5.000	5.00	-0.1	05	20.000	20.89	4.4	06	50.000	47.13	-5.7
07	100.000	98.36	-1.6	08	150.000	157.16	4.8	09	200.000	202.90	1.5

4-Bromofluorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	55.39	10.8	03	60.000	62.82	4.7	11	70.000	71.87	2.7
05	100.000	96.95	-3.0	07	125.000	117.59	-5.9	08	150.000	136.23	-9.2

4-Chlorotoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-2.7	02	1.000	0.93	-6.8	03	2.000	2.08	4.0
11	5.000	5.03	0.6	05	20.000	20.94	4.7	06	50.000	50.21	0.4
07	100.000	99.37	-0.6	08	150.000	149.65	-0.2	09	200.000	201.32	0.7

4-Isopropyltoluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-6.2	02	1.000	0.96	-4.0	03	2.000	2.08	3.8
11	5.000	5.11	2.1	05	20.000	21.84	9.2	06	50.000	50.25	0.5
07	100.000	97.10	-2.9	08	150.000	149.55	-0.3	09	200.000	195.61	-2.2

4-Methyl-2-pentanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.01	0.6	11	5.000	4.72	-5.7	05	20.000	20.53	2.7
06	50.000	52.41	4.8	07	100.000	103.21	3.2	08	150.000	145.32	-3.1
09	200.000	194.85	-2.6								

Acetone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.38	18.8	11	5.000	5.36	7.2	05	20.000	20.12	0.6
06	50.000	46.25	-7.5	07	100.000	91.35	-8.6	08	150.000	139.57	-7.0
09	200.000	192.94	-3.5								

Acetonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	10.07	0.7	11	25.000	18.26	-27.0	05	100.000	98.95	-1.1
06	250.000	230.53	-7.8	07	500.000	532.35	6.5	08	750.000	866.51	15.5
09	1000.000	1,130.52	13.1								

Acrolein

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	5.82	16.3	03	10.000	6.40	-36.0	11	25.000	22.95	-8.2
05	100.000	105.00	5.0	06	250.000	269.37	7.7	07	500.000	542.60	8.5
08	750.000	782.39	4.3	09	1000.000	1,023.29	2.3				

Initial Calibration - Detailed Report

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

Analyte

Acrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	5.000	5.89	17.9	03	10.000	9.80	-2.0	11	25.000	22.98	-8.1
05	100.000	98.07	-1.9	06	250.000	250.47	0.2	07	500.000	497.60	-0.5
08	750.000	736.77	-1.8	09	1000.000	962.38	-3.8				

Benzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.7	02	1.000	1.01	0.7	03	2.000	1.94	-2.9
11	5.000	4.74	-5.2	05	20.000	20.41	2.1	06	50.000	48.38	-3.2
07	100.000	96.60	-3.4	08	150.000	146.77	-2.2	09	200.000	200.86	0.4

Bromobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.6	02	1.000	1.03	2.7	03	2.000	1.97	-1.4
11	5.000	5.04	0.8	05	20.000	20.95	4.8	06	50.000	48.86	-2.3
07	100.000	95.49	-4.5	08	150.000	146.52	-2.3	09	200.000	199.09	-0.5

Bromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.24	23.7	03	2.000	2.09	4.7	11	5.000	4.97	-0.6
05	20.000	20.00	0.0	06	50.000	49.33	-1.3	07	100.000	91.58	-8.4
08	150.000	137.48	-8.3	09	200.000	180.60	-9.7				

Bromodichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.7	02	1.000	1.09	9.2	03	2.000	2.06	3.2
11	5.000	5.03	0.6	05	20.000	20.13	0.6	06	50.000	48.04	-3.9
07	100.000	94.17	-5.8	08	150.000	142.50	-5.0	09	200.000	196.87	-1.6

Bromoform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-6.0	03	2.000	1.97	-1.7	11	5.000	5.14	2.8
05	20.000	20.49	2.5	06	50.000	50.69	1.4	07	100.000	99.43	-0.6
08	150.000	150.62	0.4	09	200.000	202.54	1.3				

Bromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.4	02	1.000	0.96	-3.7	03	2.000	2.11	5.4
11	5.000	4.50	-10.0	05	20.000	19.00	-5.0	06	50.000	47.00	-6.0
07	100.000	96.20	-3.8	08	150.000	159.82	6.5	09	200.000	220.25	10.1

Carbon Disulfide

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.9	02	1.000	1.05	4.8	03	2.000	2.00	0.2
11	5.000	4.77	-4.6	05	20.000	20.71	3.5	06	50.000	47.48	-5.0
07	100.000	94.74	-5.3	08	150.000	145.22	-3.2	09	200.000	193.43	-3.3

Initial Calibration - Detailed Report

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

Analyte

Carbon Tetrachloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.02	1.7	03	2.000	2.10	4.8	11	5.000	4.92	-1.6
05	20.000	20.28	1.4	06	50.000	48.18	-3.6	07	100.000	95.14	-4.9
08	150.000	147.70	-1.5	09	200.000	207.54	3.8				

Chlorobenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.3	02	1.000	0.97	-3.1	03	2.000	1.94	-3.2
11	5.000	4.82	-3.6	05	20.000	20.38	1.9	06	50.000	49.56	-0.9
07	100.000	97.14	-2.9	08	150.000	147.55	-1.6	09	200.000	200.16	0.1

Chloroethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.59	18.1	02	1.000	1.10	9.7	03	2.000	1.98	-1.2
11	5.000	4.49	-10.1	05	20.000	20.55	2.7	06	50.000	48.08	-3.8
07	100.000	92.70	-7.3	08	150.000	142.71	-4.9	09	200.000	193.60	-3.2

Chloroform

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.09	8.5	03	2.000	2.18	9.1	11	5.000	5.02	0.4
05	20.000	20.26	1.3	06	50.000	47.62	-4.8	07	100.000	92.28	-7.7
08	150.000	143.69	-4.2	09	200.000	194.63	-2.7				

Chloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.8	02	1.000	1.07	6.7	03	2.000	2.04	1.8
11	5.000	4.64	-7.2	05	20.000	20.40	2.0	06	50.000	48.92	-2.2
07	100.000	92.66	-7.3	08	150.000	146.91	-2.1	09	200.000	190.88	-4.6

Cyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.18	18.1	03	2.000	2.16	7.8	11	5.000	4.81	-3.9
05	20.000	19.19	-4.1	06	50.000	48.11	-3.8	07	100.000	94.59	-5.4
08	150.000	138.88	-7.4	09	200.000	197.44	-1.3				

Cyclohexanone

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	20.000	20.49	2.5	03	40.000	39.94	-0.2	11	100.000	101.25	1.2
05	400.000	408.44	2.1	06	1000.000	1,060.59	6.1	07	2000.000	1,963.39	-1.8
08	3000.000	2,861.78	-4.6	09	4000.000	3,788.58	-5.3				

Dibromochloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.4	02	1.000	1.02	1.5	03	2.000	1.75	-12.6
11	5.000	4.61	-7.7	05	20.000	20.15	0.8	06	50.000	50.68	1.4
07	100.000	97.52	-2.5	08	150.000	148.23	-1.2	09	200.000	198.01	-1.0

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte

Dibromofluoromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	54.23	8.5	03	60.000	62.47	4.1	11	70.000	72.82	4.0
05	100.000	94.64	-5.4	07	125.000	119.49	-4.4	08	150.000	139.74	-6.8

Dibromomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.14	13.6	03	2.000	2.30	15.2	11	5.000	4.71	-5.7
05	20.000	19.22	-3.9	06	50.000	47.69	-4.6	07	100.000	94.75	-5.2
08	150.000	141.15	-5.9	09	200.000	193.32	-3.3				

Dichlorodifluoromethane (CFC 12)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.52	4.4	02	1.000	1.03	2.5	03	2.000	1.76	-12.1
11	5.000	4.64	-7.2	05	20.000	21.53	7.7	06	50.000	51.32	2.6
07	100.000	97.26	-2.7	08	150.000	151.15	0.8	09	200.000	207.98	4.0

Dichlorofluoromethane (CFC 21)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.55	9.7	02	1.000	1.04	3.7	03	2.000	2.02	1.1
11	5.000	4.90	-1.9	05	20.000	20.20	1.0	06	50.000	49.59	-0.8
07	100.000	96.04	-4.0	08	150.000	140.45	-6.4	09	200.000	195.07	-2.5

Dichloromethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	16.3	03	2.000	2.02	1.1	11	5.000	4.89	-2.2
05	20.000	19.84	-0.8	06	50.000	48.50	-3.0	07	100.000	94.24	-5.8
08	150.000	144.48	-3.7	09	200.000	196.01	-2.0				

Diethyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.15	14.9	03	2.000	2.11	5.7	11	5.000	4.92	-1.6
05	20.000	19.61	-1.9	06	50.000	49.46	-1.1	07	100.000	95.14	-4.9
08	150.000	141.37	-5.8	09	200.000	189.16	-5.4				

Diisopropyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.4	02	1.000	1.03	2.8	03	2.000	1.97	-1.7
11	5.000	4.92	-1.7	05	20.000	19.43	-2.8	06	50.000	48.46	-3.1
07	100.000	96.41	-3.6	08	150.000	146.97	-2.0	09	200.000	199.44	-0.3

Ethyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	22.4	02	1.000	0.91	-9.0	03	2.000	1.99	-0.3
11	5.000	4.33	-13.4	05	20.000	19.83	-0.9	06	50.000	50.76	1.5
07	100.000	101.34	1.3	08	150.000	148.11	-1.3	09	200.000	199.13	-0.4

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte

Ethyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	13.8	02	1.000	1.03	3.2	03	2.000	2.07	3.5
11	5.000	4.84	-3.2	05	20.000	19.47	-2.7	06	50.000	48.73	-2.5
07	100.000	96.23	-3.8	08	150.000	143.40	-4.4	09	200.000	192.05	-4.0

Ethylbenzene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.5	02	1.000	1.00	0.4	03	2.000	1.76	-11.8
11	5.000	4.89	-2.1	05	20.000	21.14	5.7	06	50.000	49.33	-1.3
07	100.000	96.25	-3.8	08	150.000	147.40	-1.7	09	200.000	204.24	2.1

Hexachlorobutadiene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.16	15.5	03	2.000	2.34	17.0	11	5.000	4.56	-8.9
05	20.000	20.02	0.1	06	50.000	46.73	-6.5	07	100.000	89.65	-10.4
08	150.000	144.68	-3.5	09	200.000	193.43	-3.3				

Iodomethane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.16	8.2	11	5.000	3.91	-21.8	05	20.000	18.29	-8.5
06	50.000	49.73	-0.5	07	100.000	104.91	4.9	08	150.000	150.75	0.5
09	200.000	197.24	-1.4								

Isopropylbenzene (Cumene)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.5	02	1.000	1.03	2.9	03	2.000	2.12	6.2
11	5.000	4.84	-3.3	05	20.000	21.22	6.1	06	50.000	48.87	-2.3
07	100.000	95.48	-4.5	08	150.000	146.41	-2.4	09	200.000	191.73	-4.1

Methacrylonitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.13	12.7	03	2.000	2.45	22.3	11	5.000	4.84	-3.2
05	20.000	19.78	-1.1	06	50.000	48.03	-3.9	07	100.000	93.14	-6.9
08	150.000	137.29	-8.5	09	200.000	177.07	-11.5				

Methyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.07	6.8	03	2.000	2.25	12.7	11	5.000	4.82	-3.5
05	20.000	19.29	-3.6	06	50.000	50.42	0.8	07	100.000	98.34	-1.7
08	150.000	137.55	-8.3	09	200.000	193.34	-3.3				

Methyl Methacrylate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.99	-1.0	03	2.000	2.18	8.8	11	5.000	4.66	-6.8
05	20.000	20.50	2.5	06	50.000	50.94	1.9	07	100.000	99.86	-0.1
08	150.000	145.27	-3.2	09	200.000	195.76	-2.1				

Initial Calibration - Detailed Report

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

Analyte

Methyl tert-Butyl Ether

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.47	-5.1	02	1.000	0.97	-2.9	03	2.000	1.97	-1.6
11	5.000	5.22	4.5	05	20.000	20.25	1.2	06	50.000	51.54	3.1
07	100.000	101.42	1.4	08	150.000	149.99	0.0	09	200.000	198.73	-0.6

Methylcyclohexane

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	0.94	-6.2	03	2.000	2.01	0.6	11	5.000	4.99	-0.3
05	20.000	20.52	2.6	06	50.000	50.12	0.2	07	100.000	100.03	0.0
08	150.000	146.01	-2.7	09	200.000	211.36	5.7				

Naphthalene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.57	14.8	02	1.000	0.99	-0.5	03	2.000	1.99	-0.7
11	5.000	4.76	-4.8	05	20.000	20.38	1.9	06	50.000	51.51	3.0
07	100.000	98.72	-1.3	08	150.000	142.32	-5.1	09	200.000	185.38	-7.3

Propionitrile

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	10.000	11.10	11.0	11	25.000	21.87	-12.5	05	100.000	101.75	1.8
06	250.000	266.89	6.8	07	500.000	507.11	1.4	08	750.000	724.74	-3.4
09	1000.000	949.78	-5.0								

Styrene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.49	-1.8	02	1.000	1.00	-0.1	03	2.000	1.95	-2.4
11	5.000	4.87	-2.7	05	20.000	20.28	1.4	06	50.000	50.33	0.7
07	100.000	99.54	-0.5	08	150.000	153.05	2.0	09	200.000	206.83	3.4

Tetrachloroethene (PCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.56	12.0	02	1.000	1.11	10.5	03	2.000	2.13	6.3
11	5.000	4.43	-11.4	05	20.000	20.87	4.3	06	50.000	46.28	-7.4
07	100.000	92.78	-7.2	08	150.000	143.40	-4.4	09	200.000	194.49	-2.8

Tetrahydrofuran (THF)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
03	2.000	2.17	8.4	11	5.000	6.35	27.0	05	20.000	19.87	-0.6
06	50.000	46.76	-6.5	07	100.000	92.85	-7.1	08	150.000	135.36	-9.8
09	200.000	177.19	-11.4								

Toluene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	2.3	02	1.000	1.03	3.3	03	2.000	1.99	-0.7
11	5.000	4.89	-2.2	05	20.000	20.44	2.2	06	50.000	49.16	-1.7
07	100.000	97.79	-2.2	08	150.000	148.20	-1.2	09	200.000	200.21	0.1

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte

Toluene-d8

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
06	50.000	53.77	7.5	03	60.000	64.09	6.8	11	70.000	73.69	5.3
05	100.000	96.61	-3.4	07	125.000	116.83	-6.5	08	150.000	135.44	-9.7

Trichloroethene (TCE)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	6.5	02	1.000	0.96	-4.3	03	2.000	1.92	-4.1
11	5.000	4.84	-3.3	05	20.000	20.68	3.4	06	50.000	49.16	-1.7
07	100.000	97.88	-2.1	08	150.000	152.72	1.8	09	200.000	207.45	3.7

Trichlorofluoromethane (CFC 11)

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.51	1.4	02	1.000	1.09	8.5	03	2.000	2.05	2.7
11	5.000	4.88	-2.4	05	20.000	20.51	2.5	06	50.000	49.91	-0.2
07	100.000	93.28	-6.7	08	150.000	144.72	-3.5	09	200.000	195.20	-2.4

Vinyl Acetate

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
02	1.000	1.34	33.8	03	2.000	1.92	-4.1	11	5.000	4.84	-3.3
05	20.000	20.39	1.9	06	50.000	49.01	-2.0	07	100.000	93.73	-6.3
08	150.000	135.23	-9.8	09	200.000	179.45	-10.3				

Vinyl Chloride

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.61	21.1	02	1.000	1.06	6.0	03	2.000	1.81	-9.7
11	5.000	4.58	-8.4	05	20.000	20.68	3.4	06	50.000	49.57	-0.9
07	100.000	94.17	-5.8	08	150.000	145.36	-3.1	09	200.000	194.76	-2.6

cis-1,2-Dichloroethene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.53	5.8	02	1.000	1.06	6.1	03	2.000	1.98	-1.1
11	5.000	4.85	-3.1	05	20.000	19.68	-1.6	06	50.000	49.01	-2.0
07	100.000	94.85	-5.1	08	150.000	149.85	-0.1	09	200.000	202.08	1.0

cis-1,3-Dichloropropene

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.500	0.54	7.5	02	1.000	1.01	1.4	03	2.000	1.99	-0.4
11	5.000	4.73	-5.4	05	20.000	19.89	-0.5	06	50.000	49.32	-1.4
07	100.000	98.06	-1.9	08	150.000	149.41	-0.4	09	200.000	202.04	1.0

m,p-Xylenes

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	1.000	1.02	2.0	02	2.000	2.04	2.0	03	4.000	3.89	-2.9
11	10.000	9.54	-4.6	05	40.000	41.14	2.9	06	100.000	100.84	0.8
07	200.000	194.57	-2.7	08	300.000	300.29	0.1	09	400.000	409.66	2.4

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12
Signal ID: 1

Analyte

n-Butyl Acetate

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.55	10.2	02	1.000	1.06	5.6	03	2.000	1.95	-2.3
11	5.000	4.80	-4.0	05	20.000	20.09	0.4	06	50.000	51.80	3.6
07	100.000	100.23	0.2	08	150.000	135.89	-9.4	09	200.000	191.37	-4.3

n-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.55	9.6	02	1.000	0.95	-5.4	03	2.000	1.87	-6.7
11	5.000	4.95	-1.0	05	20.000	21.03	5.1	06	50.000	49.42	-1.2
07	100.000	96.02	-4.0	08	150.000	153.03	2.0	09	200.000	202.88	1.4

n-Heptane

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
02	1.000	1.12	12.3	03	2.000	2.15	7.3	11	5.000	4.73	-5.5
05	20.000	19.05	-4.7	06	50.000	48.52	-3.0	07	100.000	94.05	-5.9
08	150.000	148.30	-1.1	09	200.000	201.23	0.6				

n-Propylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.51	1.1	02	1.000	0.98	-1.8	03	2.000	2.05	2.6
11	5.000	5.09	1.7	05	20.000	21.82	9.1	06	50.000	50.23	0.5
07	100.000	96.08	-3.9	08	150.000	145.52	-3.0	09	200.000	187.29	-6.4

o-Xylene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.52	4.3	02	1.000	0.91	-8.6	03	2.000	1.89	-5.6
11	5.000	5.01	0.1	05	20.000	20.67	3.4	06	50.000	50.24	0.5
07	100.000	97.81	-2.2	08	150.000	152.59	1.7	09	200.000	212.69	6.3

sec-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.57	13.9	02	1.000	0.96	-4.1	03	2.000	2.05	2.3
11	5.000	4.84	-3.1	05	20.000	21.10	5.5	06	50.000	49.39	-1.2
07	100.000	94.88	-5.1	08	150.000	145.40	-3.1	09	200.000	189.91	-5.0

tert-Amyl Methyl Ether

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.52	4.2	02	1.000	1.12	12.3	03	2.000	1.90	-5.1
11	5.000	4.79	-4.2	05	20.000	19.71	-1.5	06	50.000	50.20	0.4
07	100.000	98.12	-1.9	08	150.000	147.13	-1.9	09	200.000	195.43	-2.3

tert-Butylbenzene

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	0.500	0.57	13.5	02	1.000	0.95	-4.6	03	2.000	1.93	-3.5
11	5.000	5.12	2.4	05	20.000	21.02	5.1	06	50.000	48.54	-2.9
07	100.000	94.23	-5.8	08	150.000	146.52	-2.3	09	200.000	196.18	-1.9

Initial Calibration - Detailed Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Signal ID: 1

Analyte

trans-1,2-Dichloroethene

#	Amount	Calculated		%D	#	Amount	Calculated		%D	#	Amount	Calculated		%D
		Conc					Conc					Conc		
01	0.500	0.50		-0.9	02	1.000	1.07		7.2	03	2.000	2.10		5.0
11	5.000	5.00		0.0	05	20.000	20.09		0.5	06	50.000	48.01		-4.0
07	100.000	94.04		-6.0	08	150.000	148.09		-1.3	09	200.000	198.90		-0.5

trans-1,3-Dichloropropene

#	Amount	Calculated		%D	#	Amount	Calculated		%D	#	Amount	Calculated		%D
		Conc					Conc					Conc		
01	0.500	0.50		-0.3	02	1.000	1.01		0.8	03	2.000	1.99		-0.5
11	5.000	4.69		-6.2	05	20.000	20.14		0.7	06	50.000	50.45		0.9
07	100.000	101.24		1.2	08	150.000	150.52		0.3	09	200.000	206.08		3.0

trans-1,4-Dichloro-2-butene

#	Amount	Calculated		%D	#	Amount	Calculated		%D	#	Amount	Calculated		%D
		Conc					Conc					Conc		
02	1.000	1.15		15.4	03	2.000	1.79		-10.7	11	5.000	5.08		1.7
05	20.000	19.47		-2.6	06	50.000	49.93		-0.1	07	100.000	99.78		-0.2
08	150.000	148.22		-1.2	09	200.000	195.66		-2.2					

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:58:01 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	889727	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1478479	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1380392	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	731691	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.596	113	430381	53.79	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	107.58%	
48) surr1,1,2-dichloroetha...	6.102	65	477228	55.84	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	111.68%	
65) SURR3,Toluene-d8	8.529	98	1866611	53.42	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	106.84%	
70) SURR2,BFB	11.047	95	717337	54.03	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	108.06%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	3964	0.51	ppb	85
3) Chloromethane	1.347	50	4164	0.56	ppb	99
4) Vinyl Chloride	1.427	62	5644	0.61	ppb	78
5) Bromomethane	1.689	94	2817m	0.52	ppb	
6) Chloroethane	1.762	64	3653	0.59	ppb	99
7) Freon 21	1.933	67	8474	0.55	ppb	93
8) Trichlorofluoromethane	1.975	101	7043	0.51	ppb	93
9) Diethyl Ether	2.225	59	3797	0.62	ppb	# 75
10) Freon 123a	2.237	67	7295	0.73	ppb	# 75
11) Freon 123	2.292	83	6530	0.57	ppb	# 76
13) 1,1-Diclethene	2.432	96	3224	0.49	ppb	# 79
14) Freon 113	2.438	101	4202	0.65	ppb	83
16) 2-Propanol	2.664	45	4247	17.32	ppb	66
18) Carbon Disulfide	2.634	76	11838	0.57	ppb	92
19) Acetonitrile	2.762	40	1026	6.29	ppb	# 14
20) Allyl Chloride	2.792	76	1477m	0.38	ppb	
21) Methyl Acetate	2.829	43	2711	1.00	ppb	90
22) Methylene Chloride	2.920	84	4741	0.68	ppb	# 63
23) TBA	3.097	59	5478m	12.40	ppb	
24) Acrylonitrile	3.213	53	4553m	3.19	ppb	
25) Methyl-t-Butyl Ether	3.274	73	8069	0.47	ppb	86
26) trans-1,2-Dichloroethene	3.243	96	3623	0.50	ppb	# 57
28) 1,1-Diclethane	3.786	63	6896m	0.57	ppb	
29) Vinyl Acetate	3.908	86	903	0.62	ppb	# 33
30) DIPE	3.944	45	11801	0.56	ppb	84
31) 2-Chloro-1,3-Butadiene	3.926	53	6753	0.51	ppb	88
32) ETBE	4.530	59	11906	0.57	ppb	95
33) 2,2-Dichloropropane	4.719	77	6747m	0.59	ppb	
34) cis-1,2-Dichloroethene	4.712	96	4125	0.53	ppb	# 70
36) Propionitrile	4.877	54	312	0.62	ppb	56
37) Bromochloromethane	5.139	130	2840m	0.66	ppb	
40) Chloroform	5.328	83	11210m	0.88	ppb	
41) 1,1,1-Trichloroethane	5.596	97	7514	0.61	ppb	81
42) TAME	6.401	73	9513	0.52	ppb	85

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:58:01 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Carbontetrachloride	5.877	121	2524m	0.78	ppb	
47) 1,1-Dichloropropene	5.877	75	6246	0.61	ppb	82
49) Benzene	6.182	78	16656	0.57	ppb	87
50) 1,2-Dichloroethane	6.212	62	5542	0.59	ppb	95
52) n-Heptane	6.651	43	4629	0.74	ppb	# 80
53) 1-Butanol	7.121	56	3366	27.23	ppb	85
54) Trichloroethene	7.084	130	4211m	0.53	ppb	
55) Methylcyclohexane	7.303	55	4943m	0.67	ppb	
56) 1,2-Dichloropropane	7.358	63	3747m	0.53	ppb	
57) Dibromomethane	7.492	93	3330	0.88	ppb	# 72
59) Methyl Methacrylate	7.572	69	2444	0.70	ppb	# 78
60) Bromodichloromethane	7.724	83	5195m	0.50	ppb	
62) 2-Chloroethylvinyl Ether	8.114	63	2024	0.63	ppb	94
63) cis-1,3-Dichloropropene	8.230	75	6331	0.54	ppb	70
66) Toluene	8.602	91	17195	0.51	ppb	91
67) trans-1,3-Dichloropropene	8.870	75	5025	0.50	ppb	94
68) Ethyl Methacrylate	9.004	69	4474	0.61	ppb	90
69) 1,1,2-Trichloroethane	9.047	97	2954	0.54	ppb	# 61
72) Tetrachloroethene	9.181	164	3546	0.56	ppb	# 78
74) 1,3-Dichloropropane	9.218	76	5895	0.65	ppb	86
75) Dibromochloromethane	9.431	129	4141	0.61	ppb	81
76) N-Butyl Acetate	9.474	43	4043m	0.55	ppb	
77) 1,2-Dibromoethane	9.529	107	2929	0.55	ppb	99
78) Chlorobenzene	10.010	112	12734	0.57	ppb	85
79) 3-CBTF	10.035	180	5144	0.49	ppb	# 75
80) 4-CBTF	10.083	180	4798	0.50	ppb	# 73
81) 1,1,1,2-Tetrachloroethane	10.102	131	3649	0.47	ppb	95
82) Ethylbenzene	10.132	106	6842	0.56	ppb	# 47
83) (m+p)Xylene	10.242	106	15121	1.02	ppb	89
84) o-Xylene	10.595	106	7488	0.52	ppb	# 62
85) Styrene	10.614	104	12099	0.49	ppb	# 80
87) Bromoform	10.760	173	2422	0.65	ppb	94
88) 2-CBTF	10.833	180	6120	0.58	ppb	# 74
89) Isopropylbenzene	10.931	105	17231	0.51	ppb	92
91) trans-1,4-Dichloro-2-B...	11.236	53	1398	0.76	ppb	88
92) 1,1,2,2-Tetrachloroethane	11.181	83	3630	0.59	ppb	83
93) Bromobenzene	11.175	156	4346	0.51	ppb	# 69
94) 1,2,3-Trichloropropane	11.199	110	1199	0.64	ppb	# 34
95) n-Propylbenzene	11.278	91	19330	0.51	ppb	92
96) 2-Chlorotoluene	11.339	91	12175	0.52	ppb	97
97) 3-Chlorotoluene	11.394	91	12546	0.50	ppb	91
98) 4-Chlorotoluene	11.437	91	14174	0.49	ppb	95
99) 1,3,5-Trimethylbenzene	11.431	105	13890	0.48	ppb	93
100) tert-Butylbenzene	11.705	119	13312	0.57	ppb	91
101) 1,2,4-Trimethylbenzene	11.735	105	15630	0.53	ppb	97
102) 3,4-DCBTF	11.803	214	3603	0.52	ppb	87
103) sec-Butylbenzene	11.882	105	18313	0.57	ppb	92
104) p-Isopropyltoluene	12.004	119	12826	0.47	ppb	90
105) 1,3-Dichlorobenz	11.967	146	8456	0.51	ppb	96
106) 1,4-Dichlorobenz	12.034	146	10849	0.63	ppb	90
107) 2,4-DCBTF	12.089	214	3670	0.60	ppb	# 74

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:58:01 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 2,5-DCBTF	12.126	214	3697	0.54	ppb	# 74
109) n-Butylbenzene	12.333	91	13447	0.55	ppb	86
110) 1,2-Dclbenz	12.333	146	8362	0.54	ppb	# 76
111) 1,2-Dibromo-3-chloropr...	12.961	157	900	0.72	ppb	# 66
112) Trielution Dichlorotol...	13.064	125	20110	1.55	ppb	# 89
113) 1,3,5 Trichlorobenzene	13.132	180	4335	0.45	ppb	# 75
114) Coelution Dichlorotoluene	13.406	125	15252	1.10	ppb	95
115) 1,2,4-Tcbenzene	13.613	180	4641	0.53	ppb	# 70
116) Hexachlorobt	13.747	225	2164	0.64	ppb	83
117) Naphthalen	13.796	128	10647	0.57	ppb	91
118) 1,2,3-Tclbenzene	13.991	180	3529	0.49	ppb	90
119) 2,4,5-Trichlorotoluene	14.576	159	3713	0.64	ppb	# 80
120) 2,3,6-Trichlorotoluene	14.662	159	2692	0.54	ppb	# 76

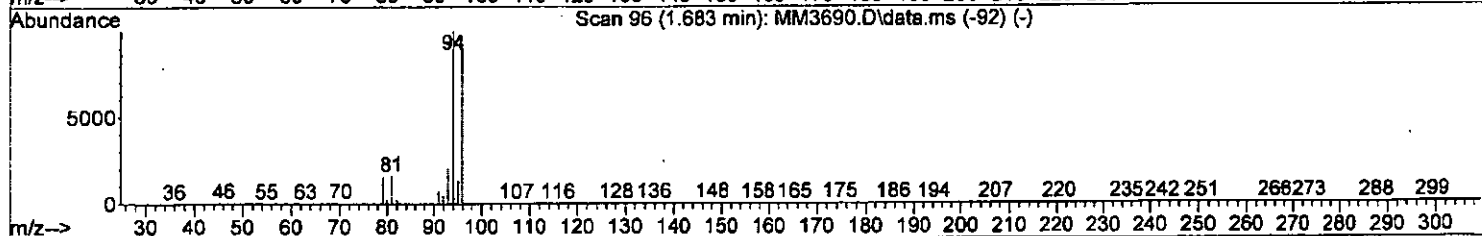
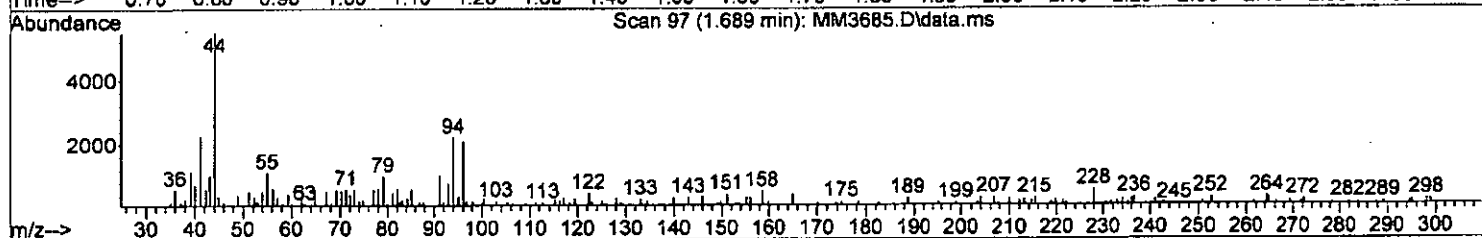
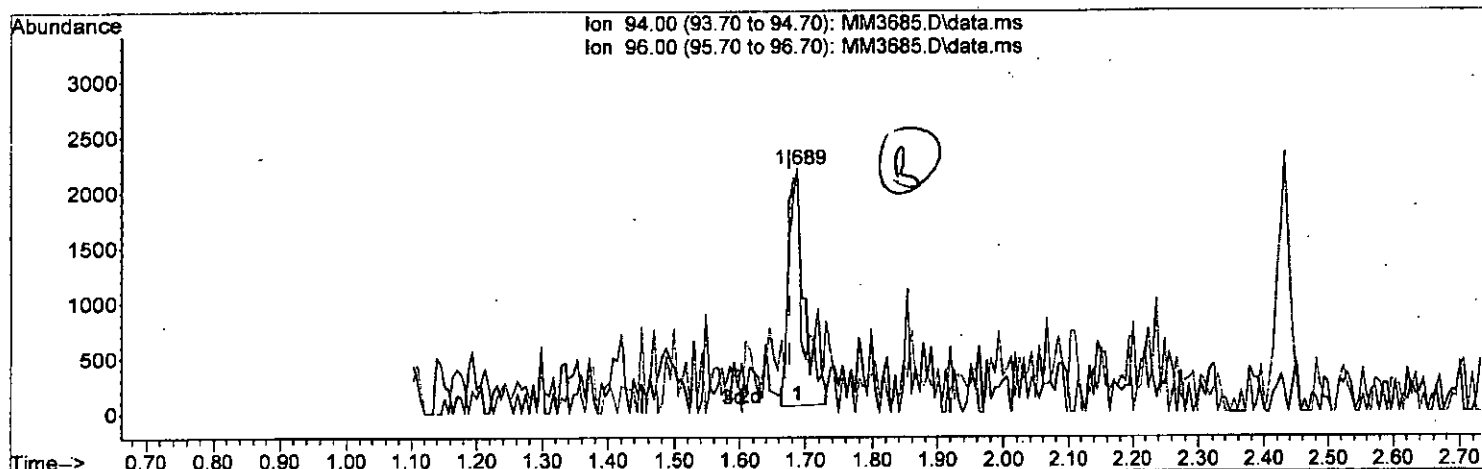
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 0.63 ppb

response 3418

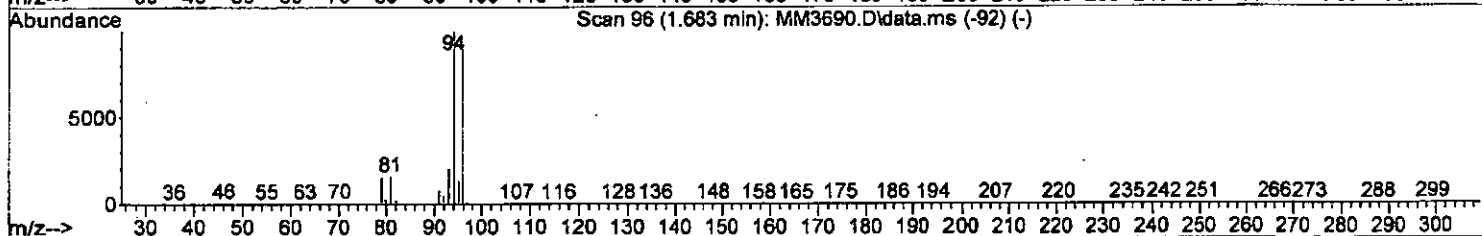
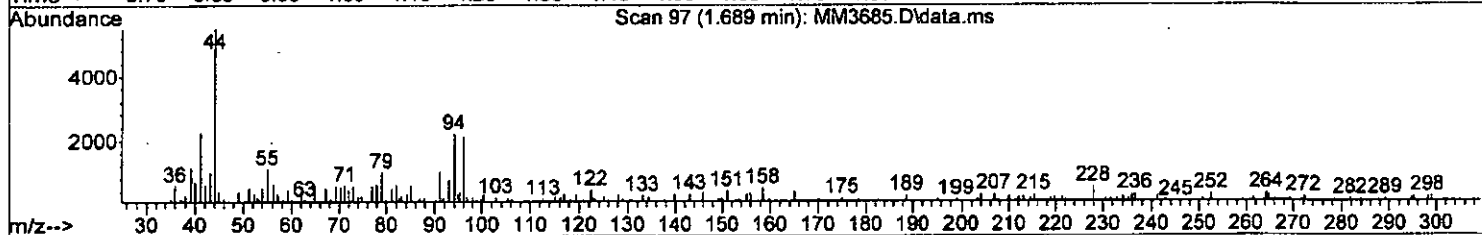
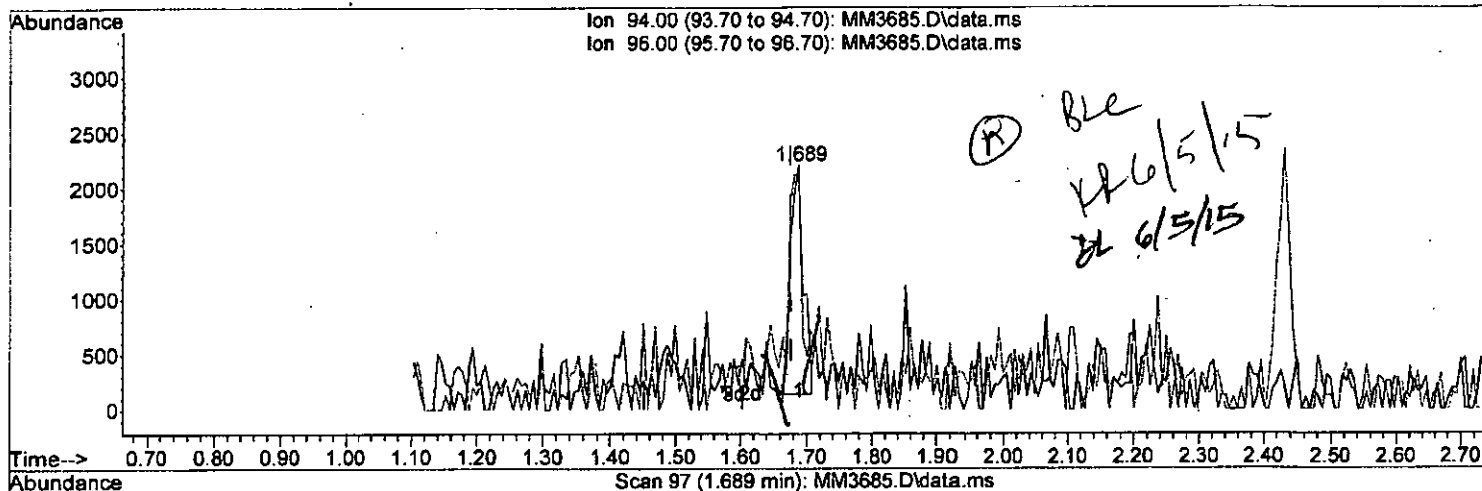
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	94.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun.05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 0.52 ppb m

response 2817

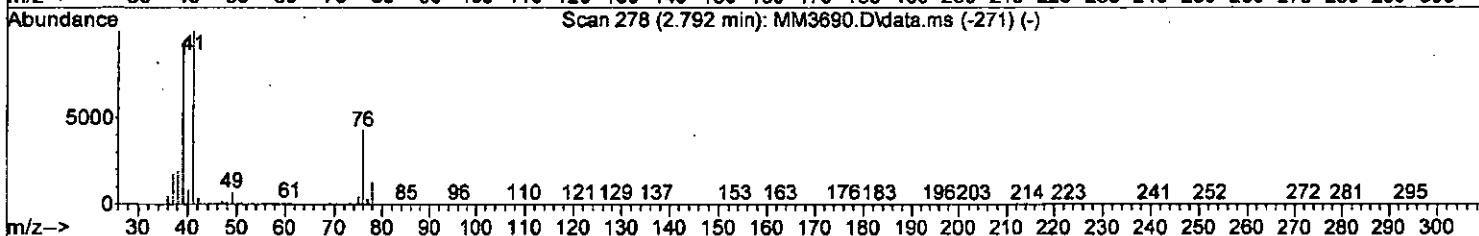
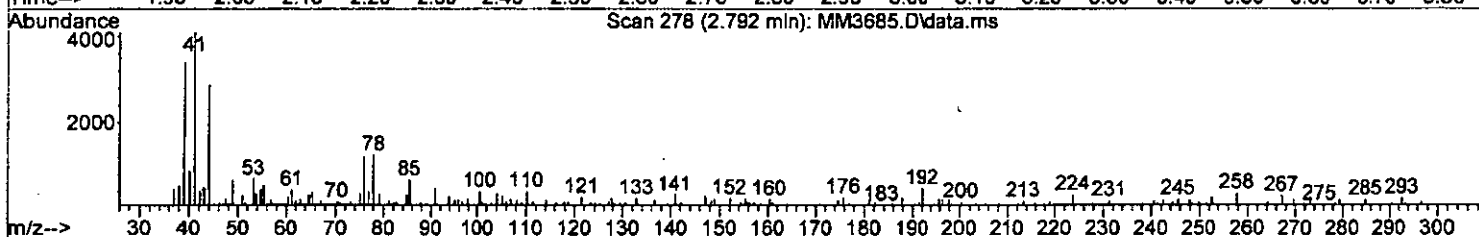
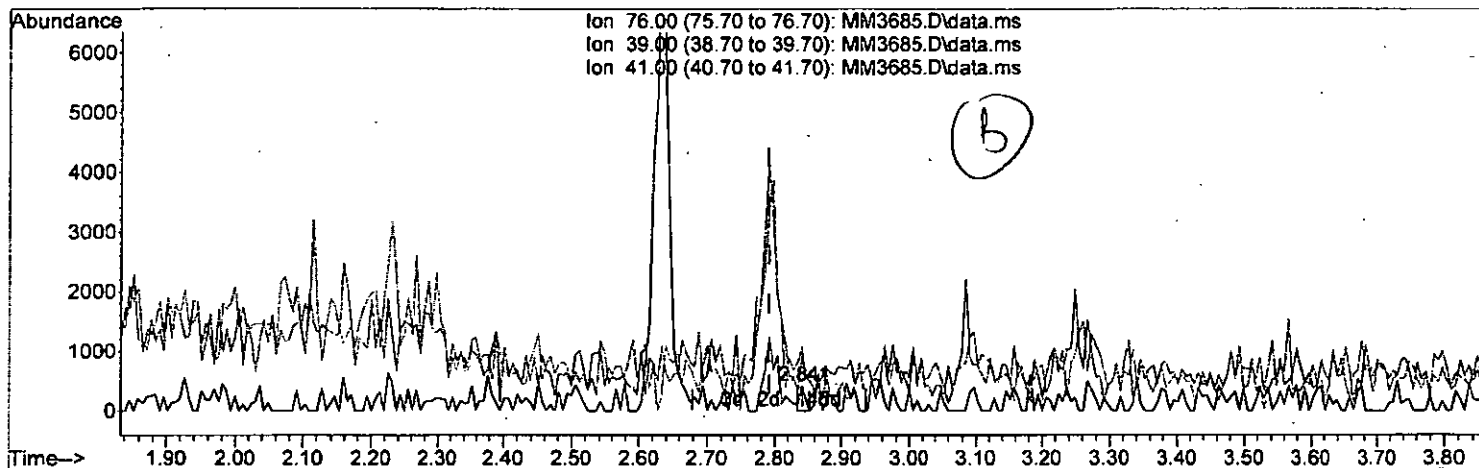
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	94.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(20) Allyl Chloride

2.841min (+0.049) 0.06 ppb

response 223

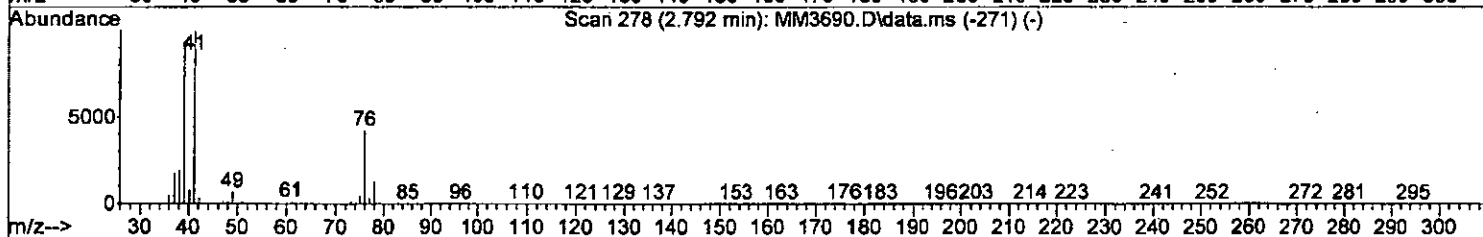
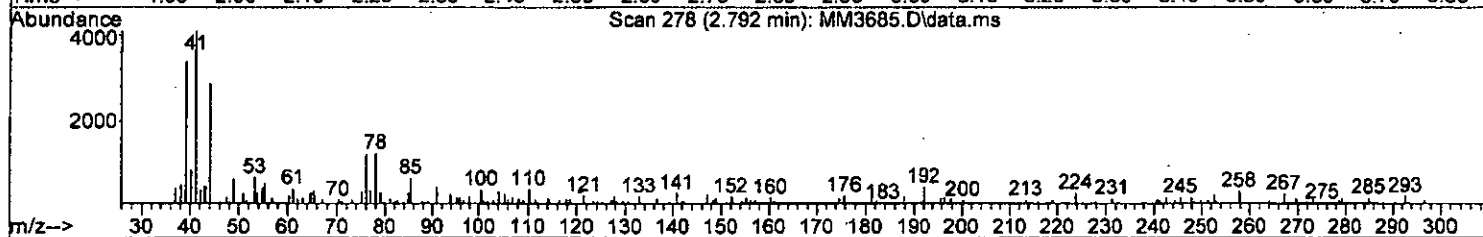
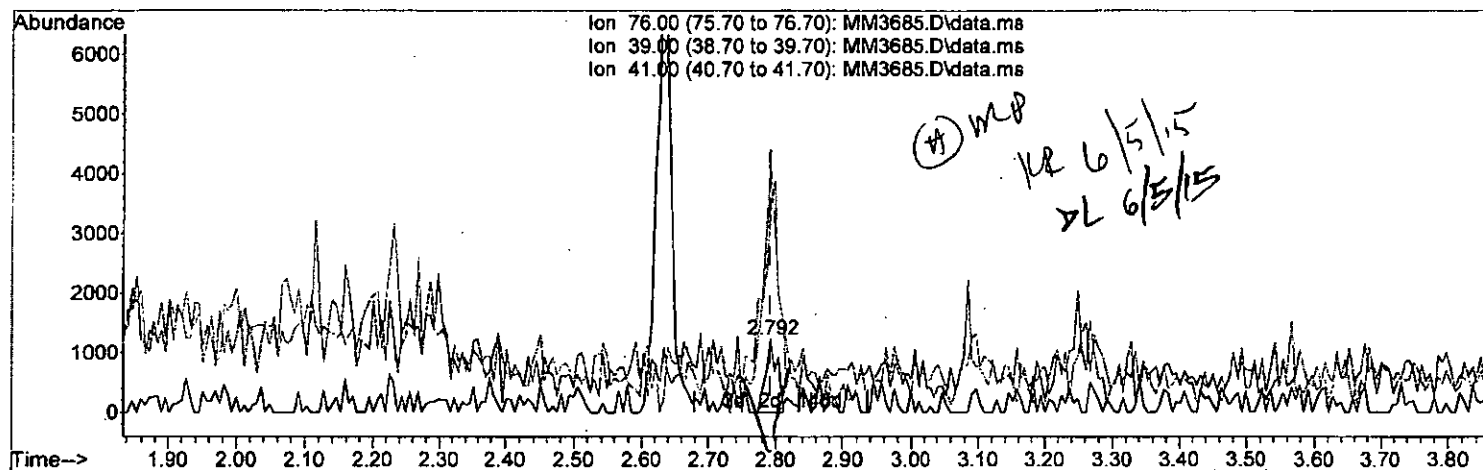
Ion	Exp%	Act%
76.00	100	100
39.00	218.60	216.71
41.00	260.30	254.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(20) Allyl Chloride

2.792min (+0.000) 0.38 ppb m

response 1477

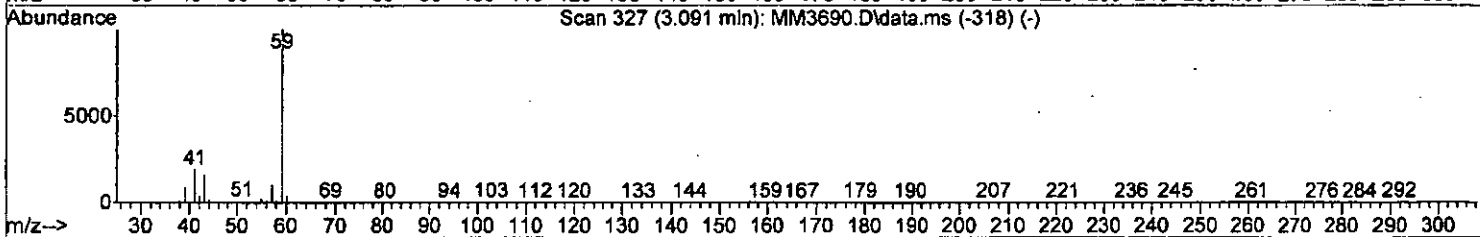
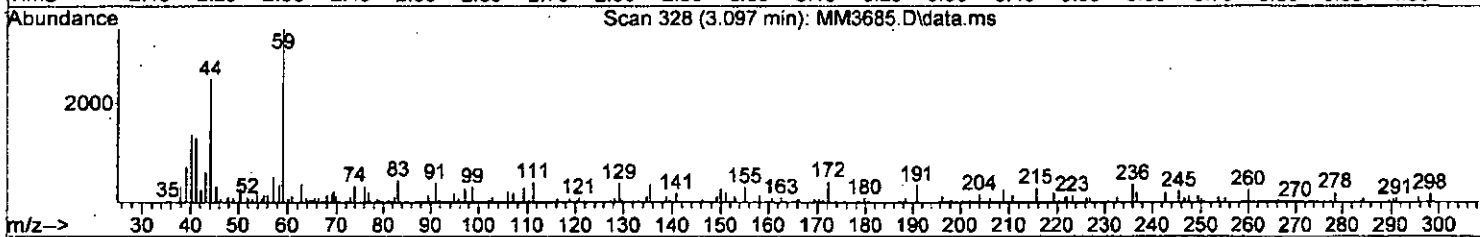
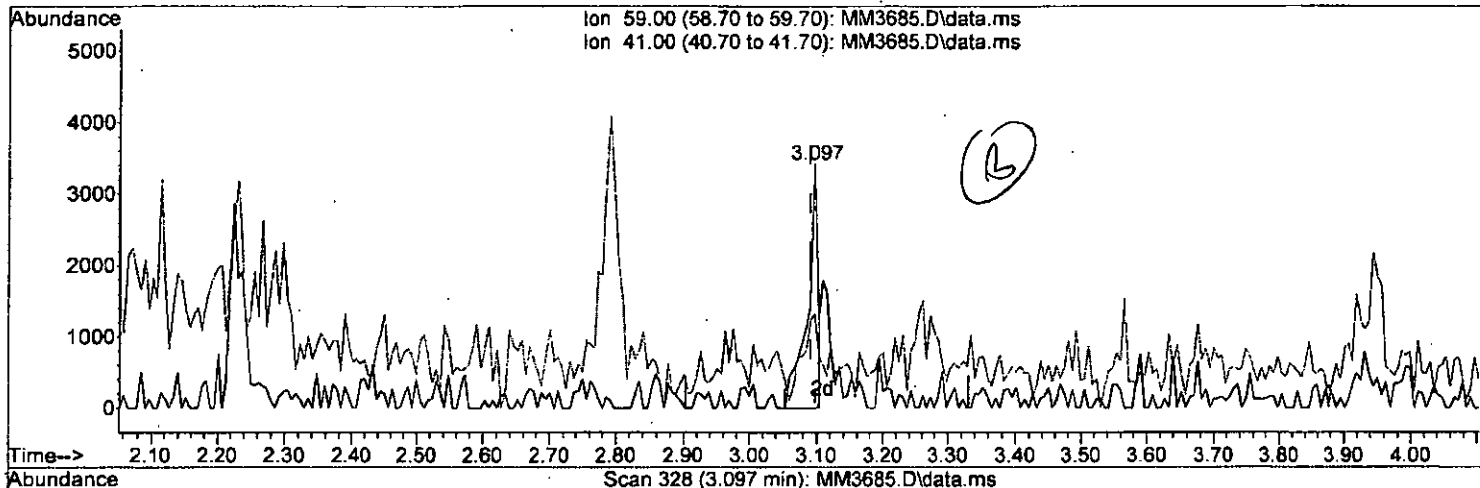
Ion	Exp%	Act%
76.00	100	100
39.00	218.60	275.63#
41.00	260.30	333.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(23) TBA

3.097min (+0.006) 8.09 ppb

response 3572

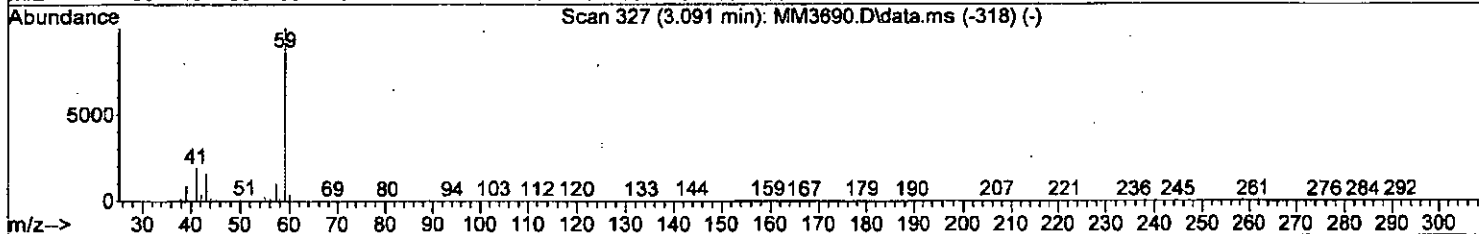
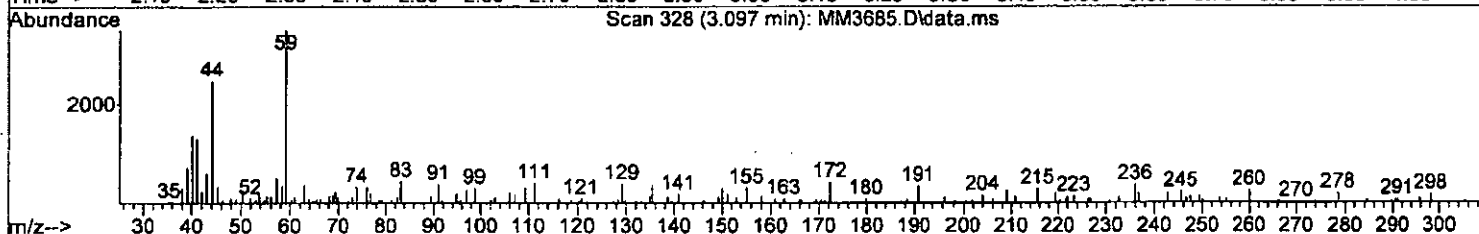
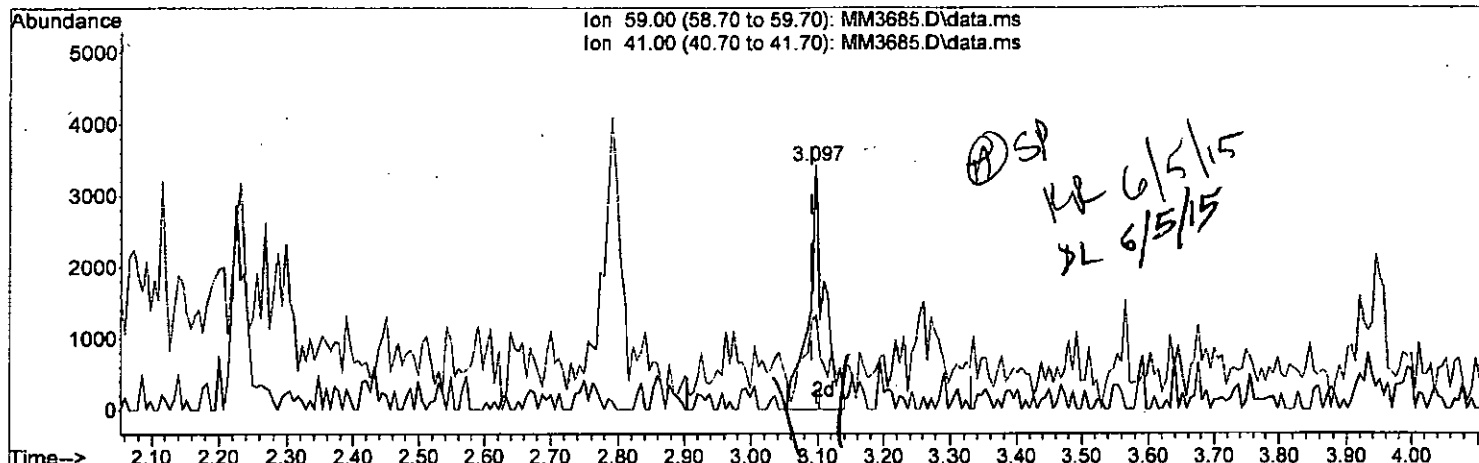
Ion	Exp%	Act%
59.00	100	100
41.00	19.50	38.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(23) TBA

3.097min (+0.006) 12.40 ppb m

response 5478

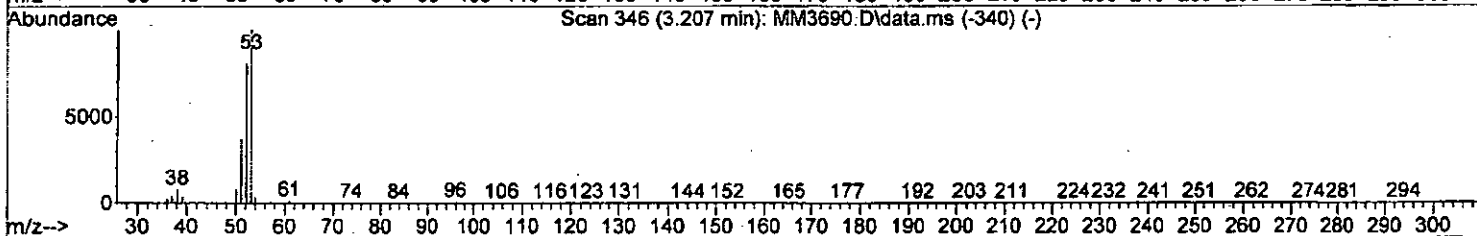
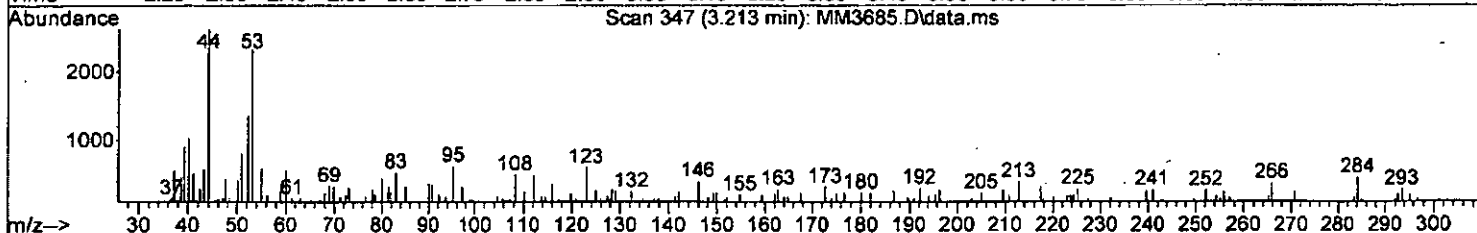
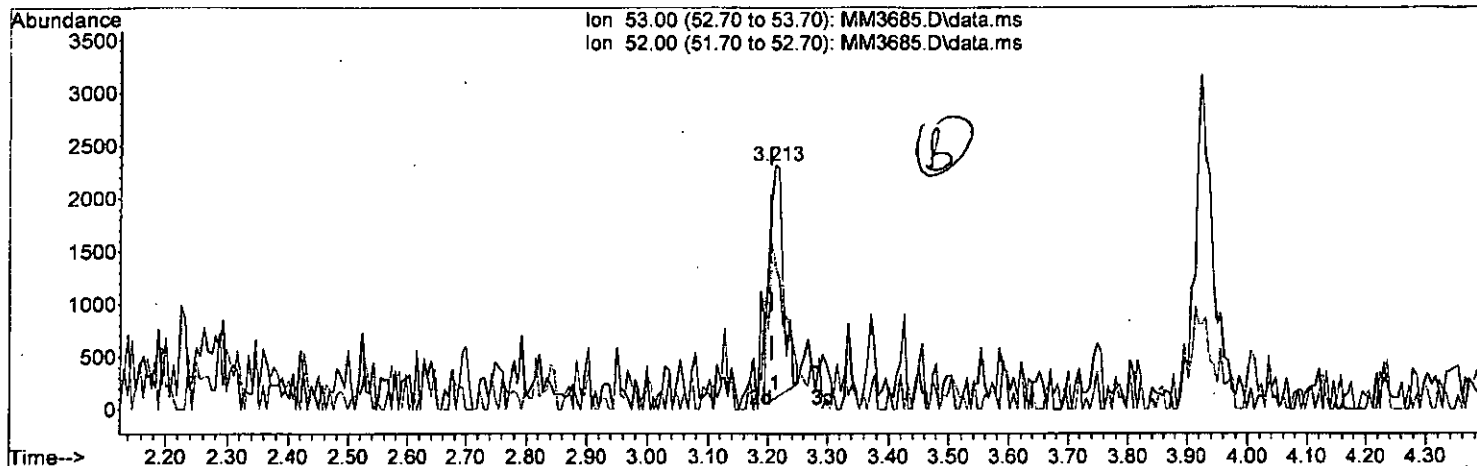
Ion	Exp%	Act%
59.00	100	100
41.00	19.50	38.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 2.44 ppb

response 3478

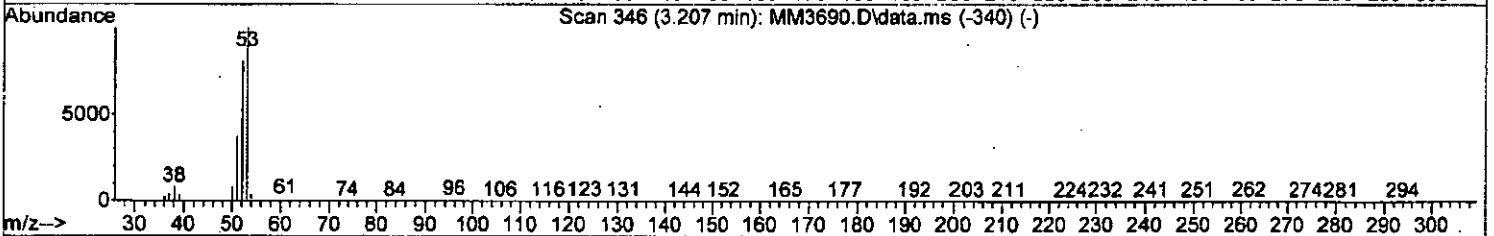
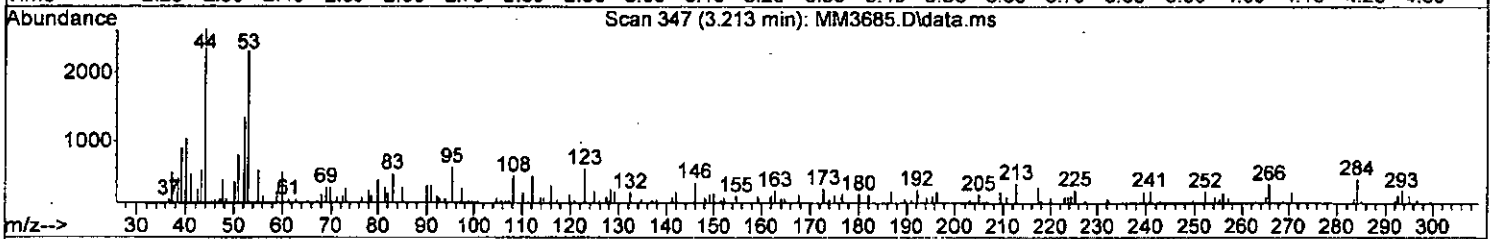
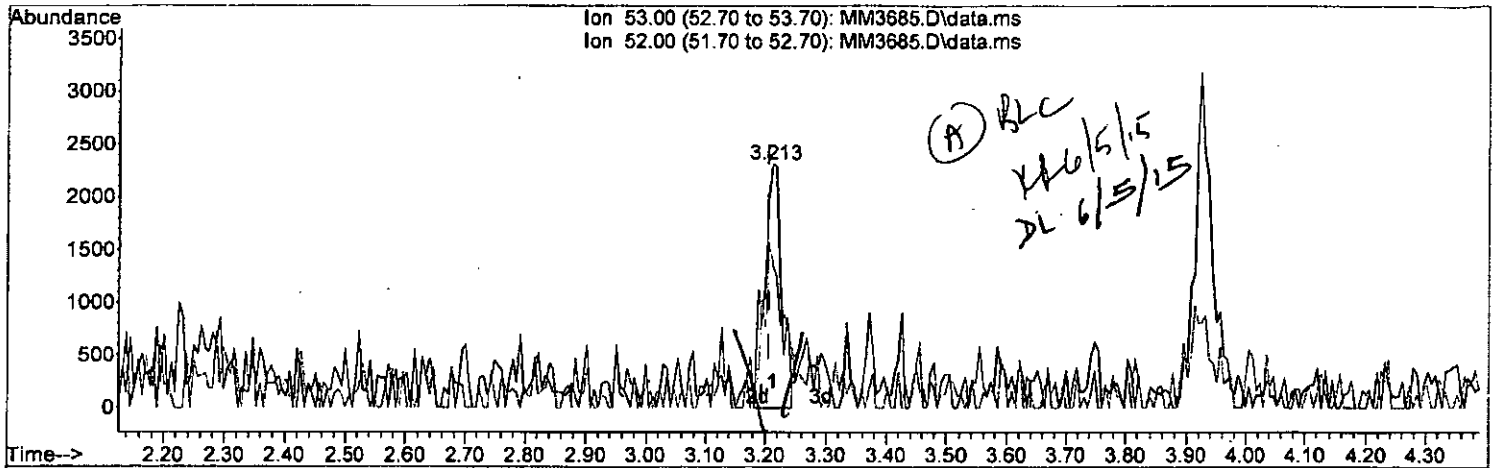
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	58.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 3.19 ppb m

response 4553

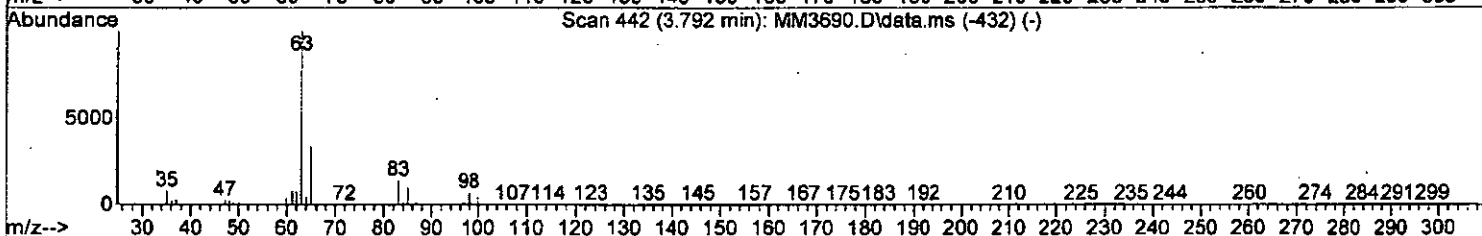
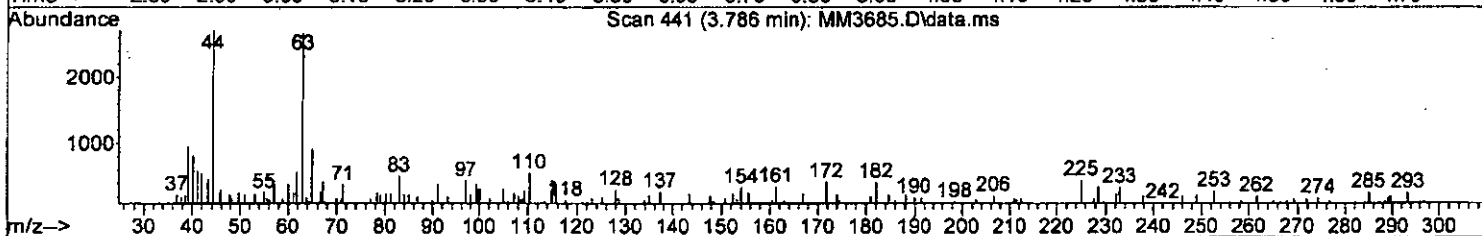
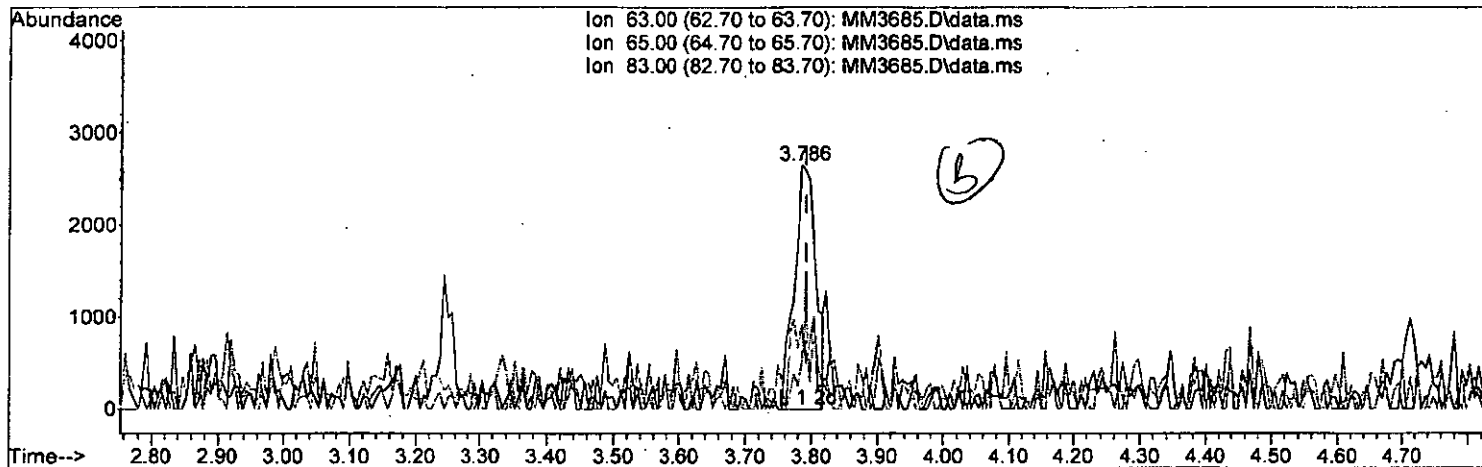
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	58.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(28) 1,1-Dichloroethane (P)

3.786min (-0.005) 0.49 ppb

response 5971

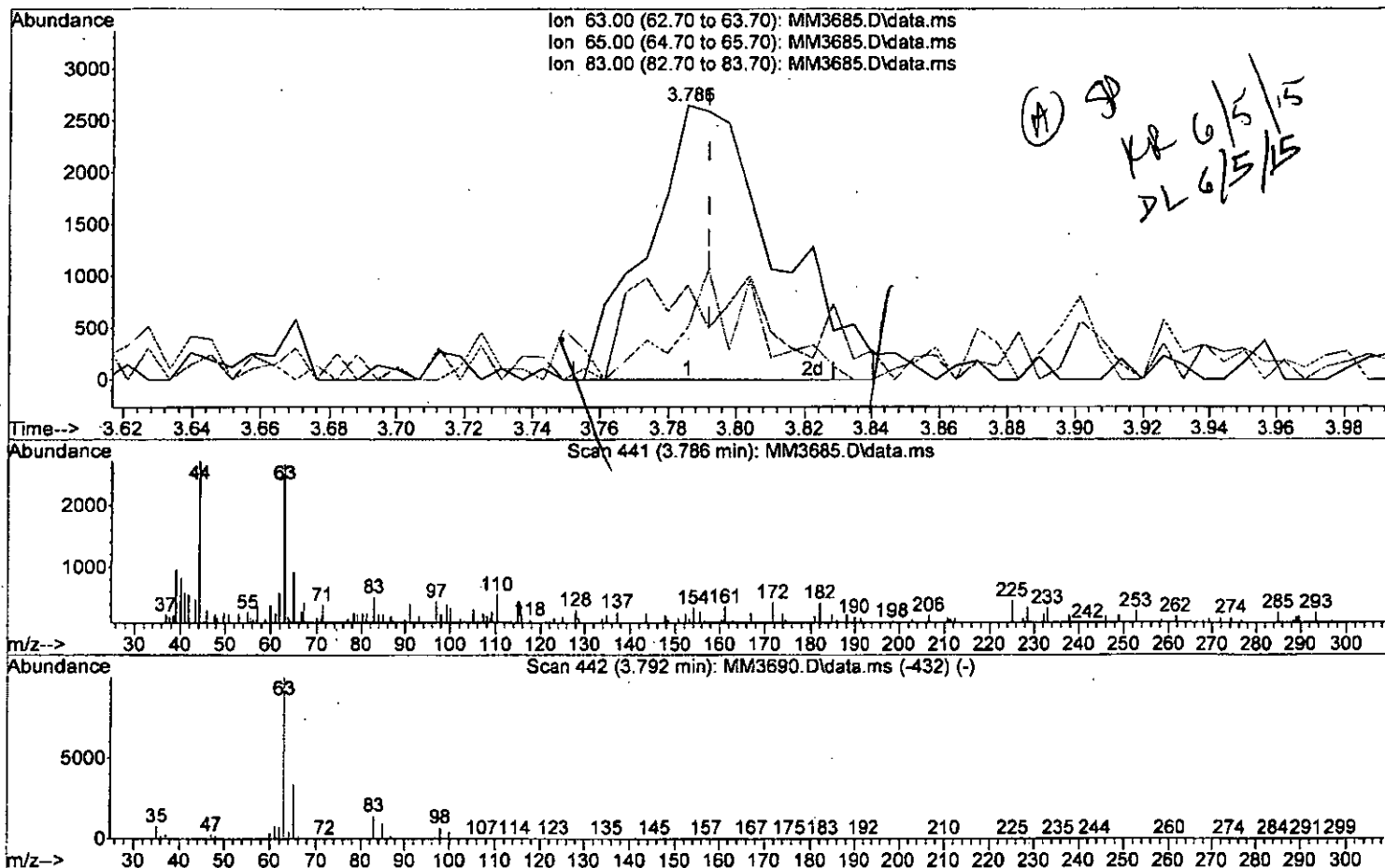
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.40
83.00	14.10	19.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



(28) 1,1-Dichloroethane (P)

3.786min (-0.006) 0.57 ppb m

response 6896

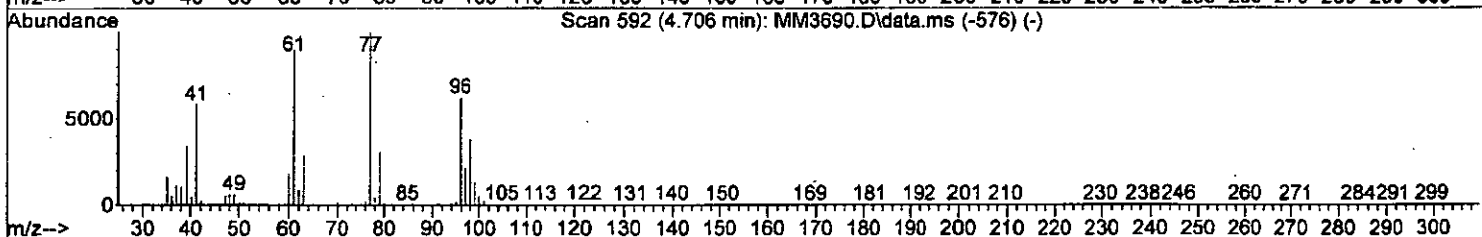
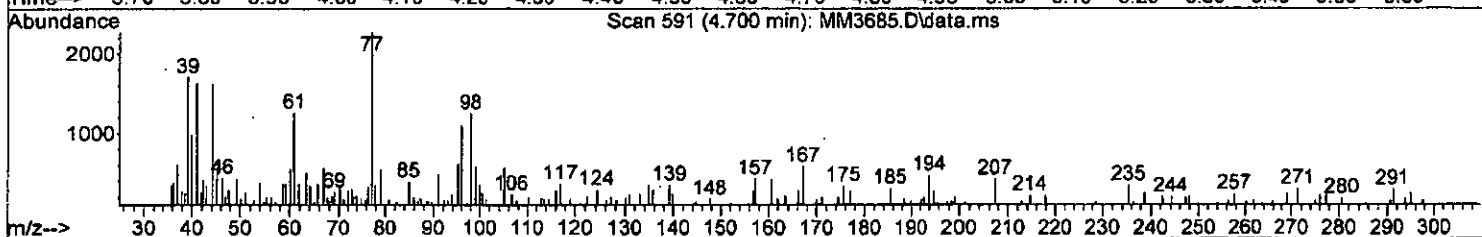
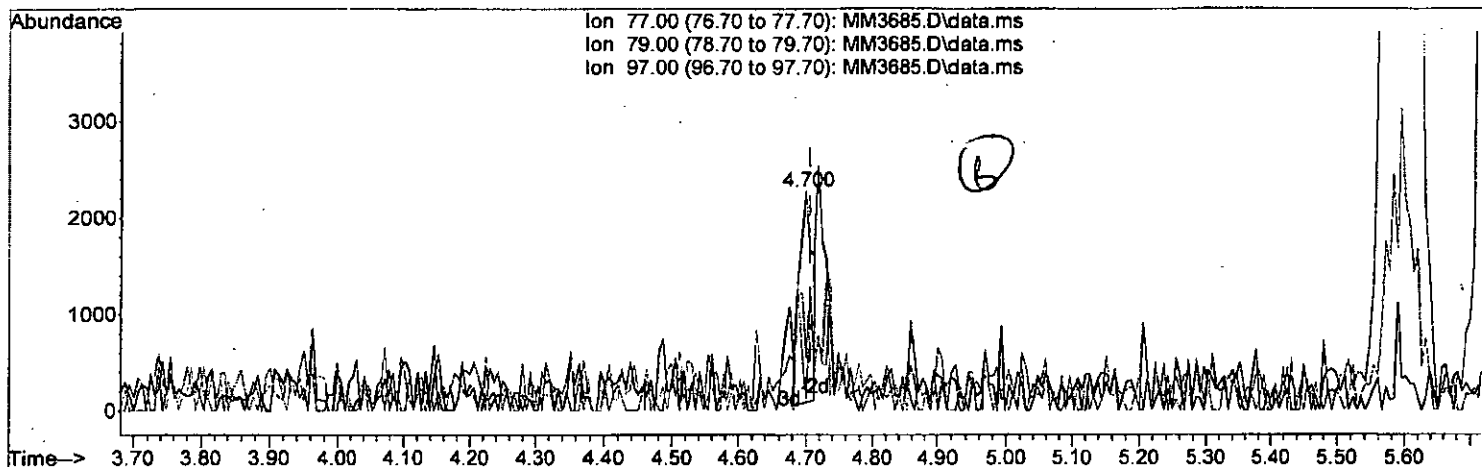
Ion	Exp%	Act%
63.00	100	100
65.00	33.80	34.40
83.00	14.10	19.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(33) 2,2-Dichloropropane

4.700min (-0.006) 0.26 ppb

response 3026

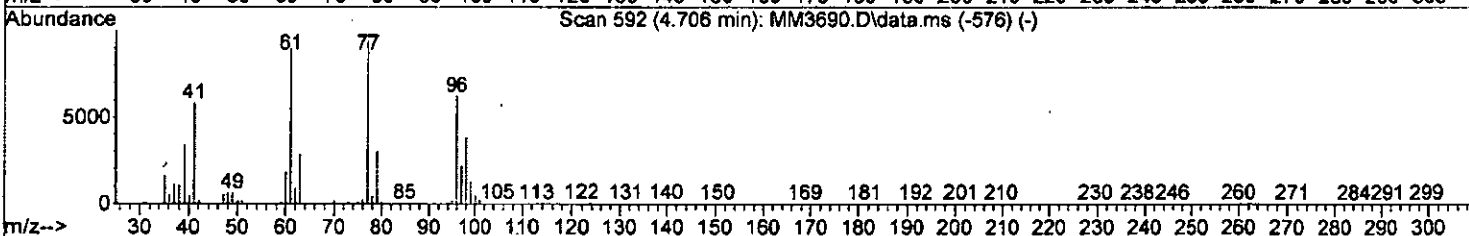
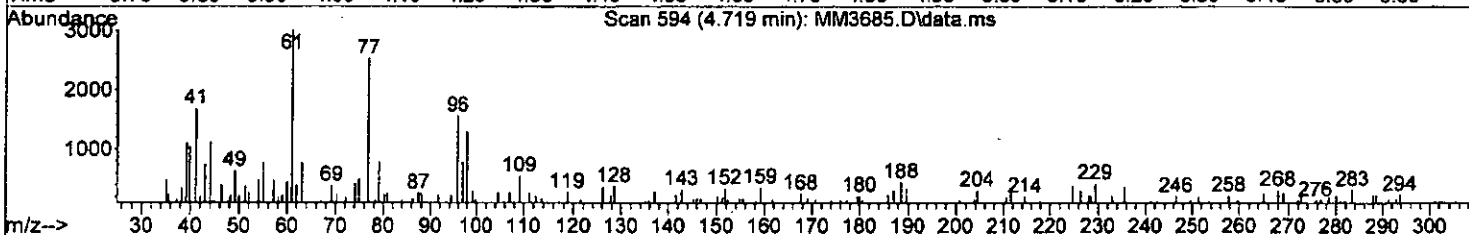
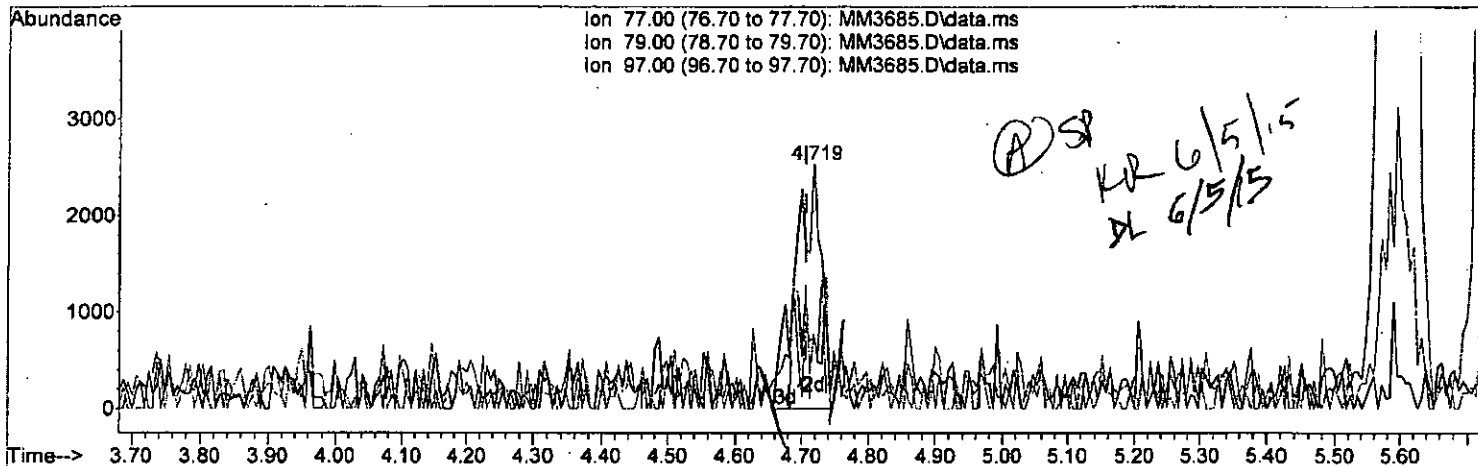
Ion	Exp%	Act%
77.00	100	100
79.00	30.50	23.96
97.00	21.60	5.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(33) 2,2-Dichloropropane

4.719min (+0.012) 0.59 ppb m

response 6747

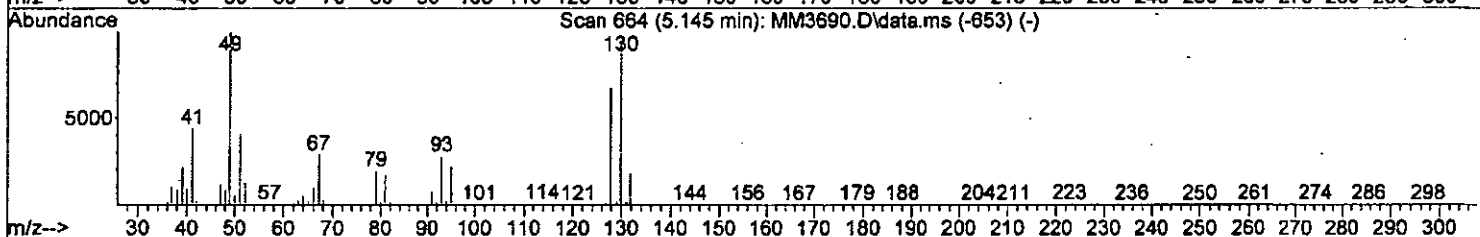
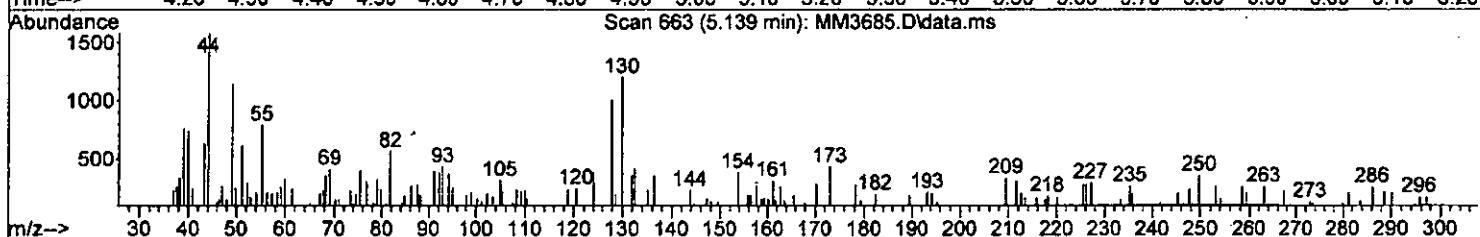
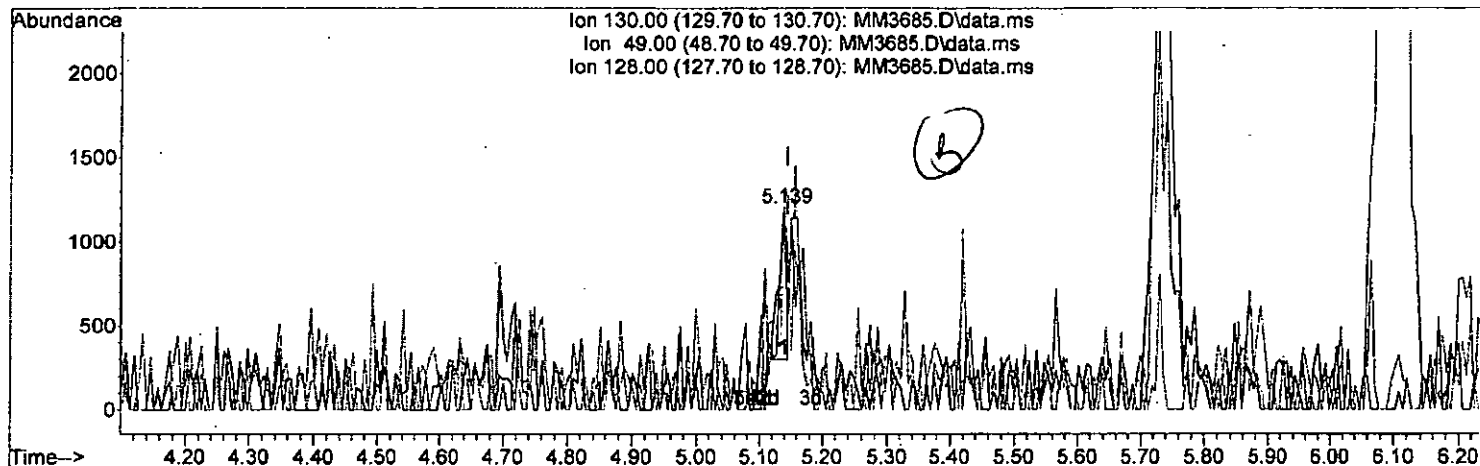
Ion	Exp%	Act%
77.00	100	100
79.00	30.50	30.60
97.00	21.60	30.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 0.14 ppb

response 610

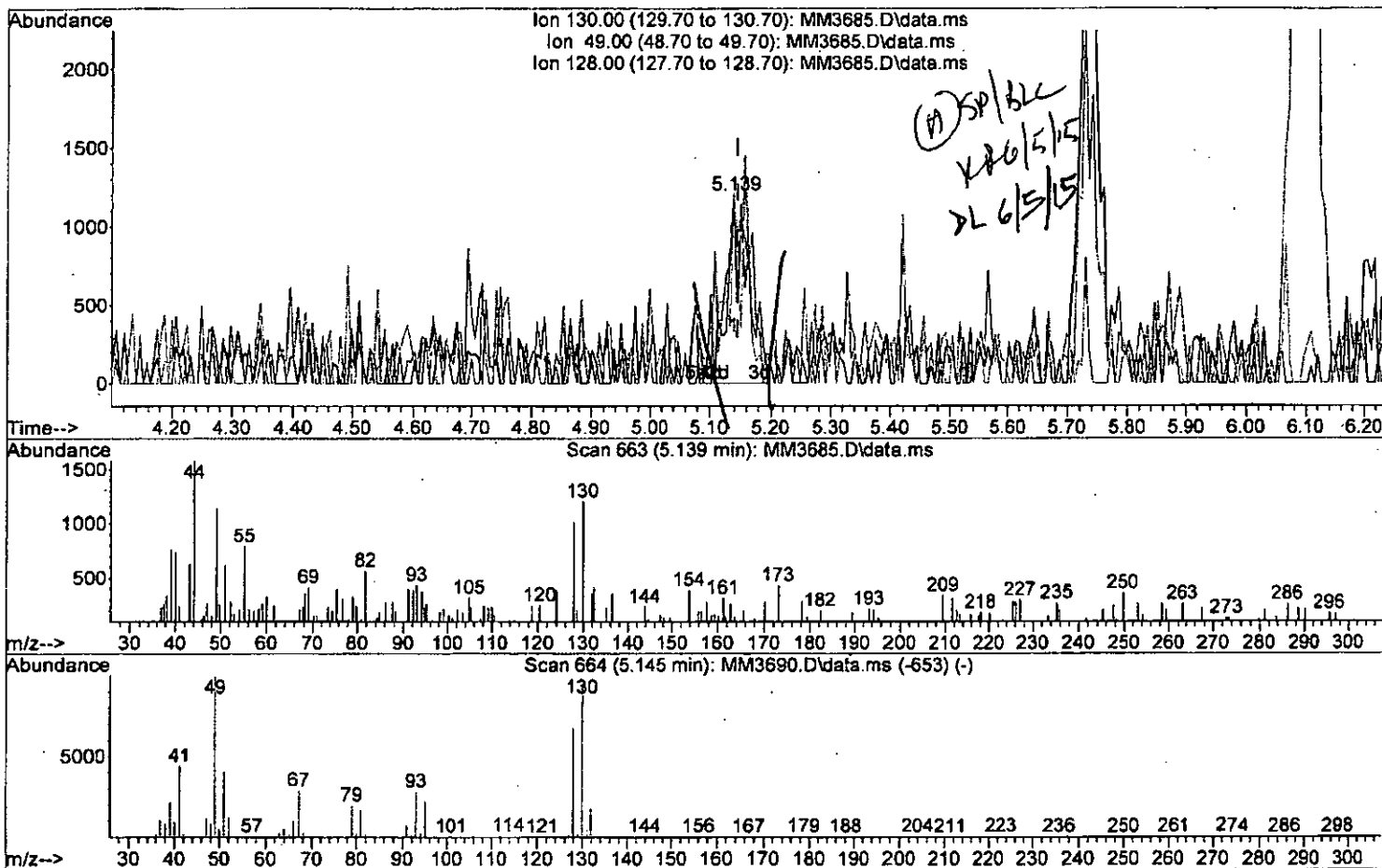
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	95.09
128.00	72.20	100.42#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 0.66 ppb m

response 2840

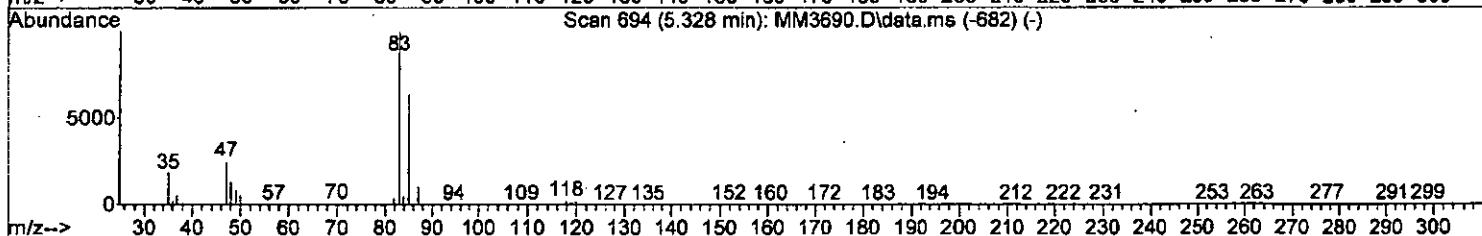
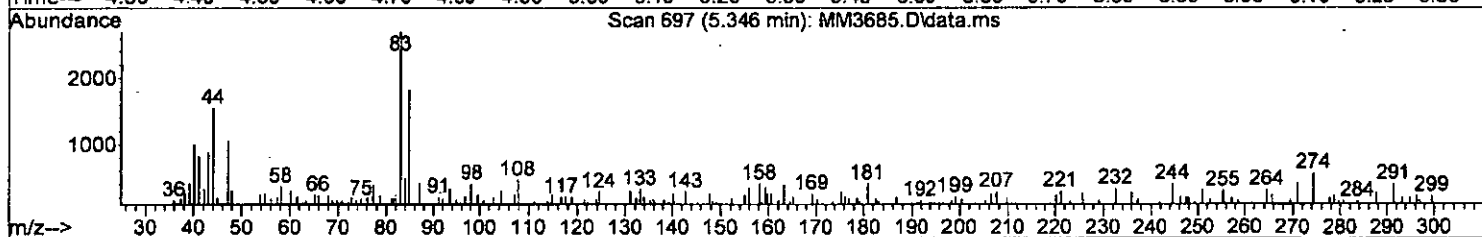
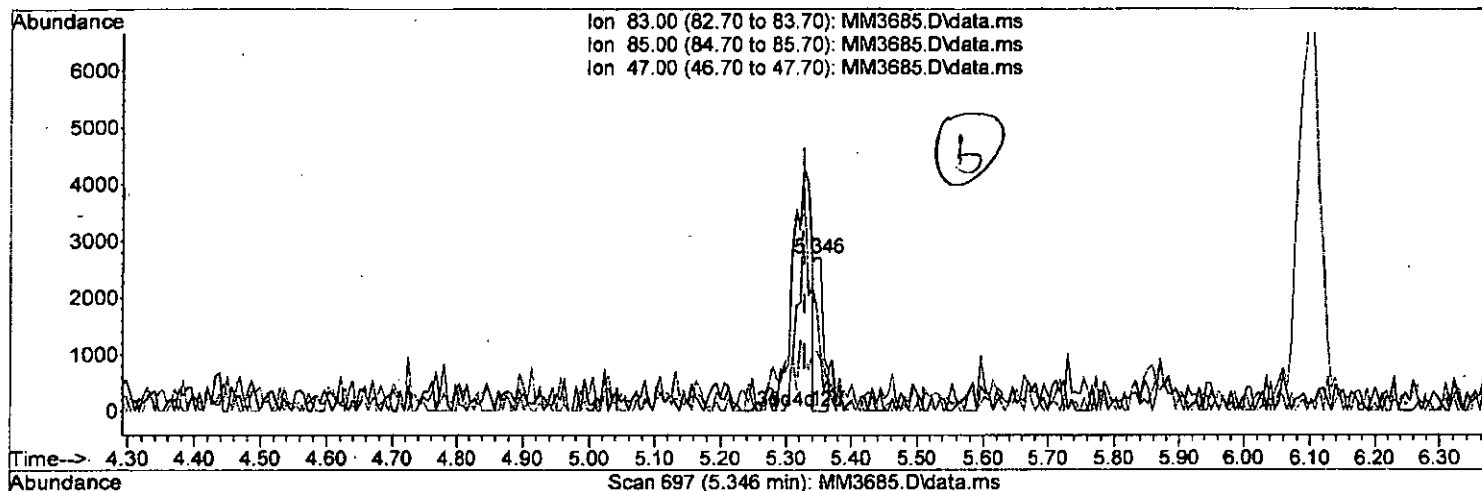
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	95.09
128.00	72.20	83.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(40) Chloroform (P)

5.346min (+0.018) 0.20 ppb

response 2559

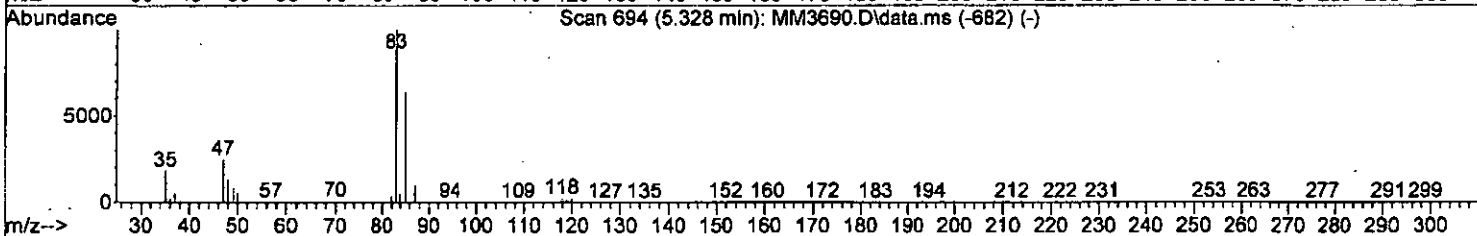
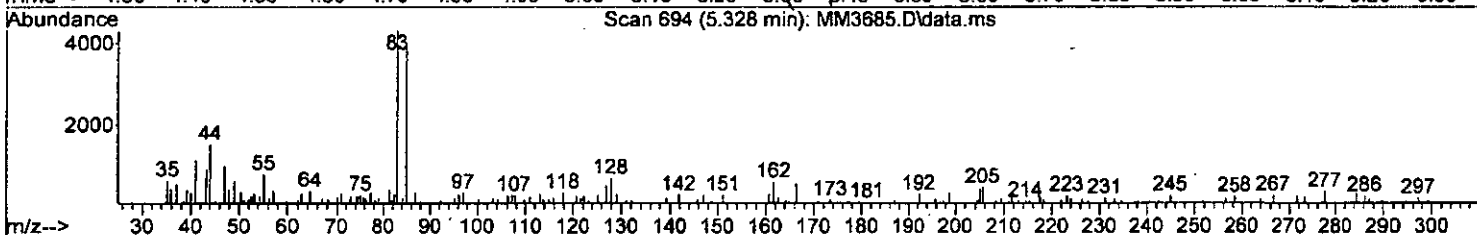
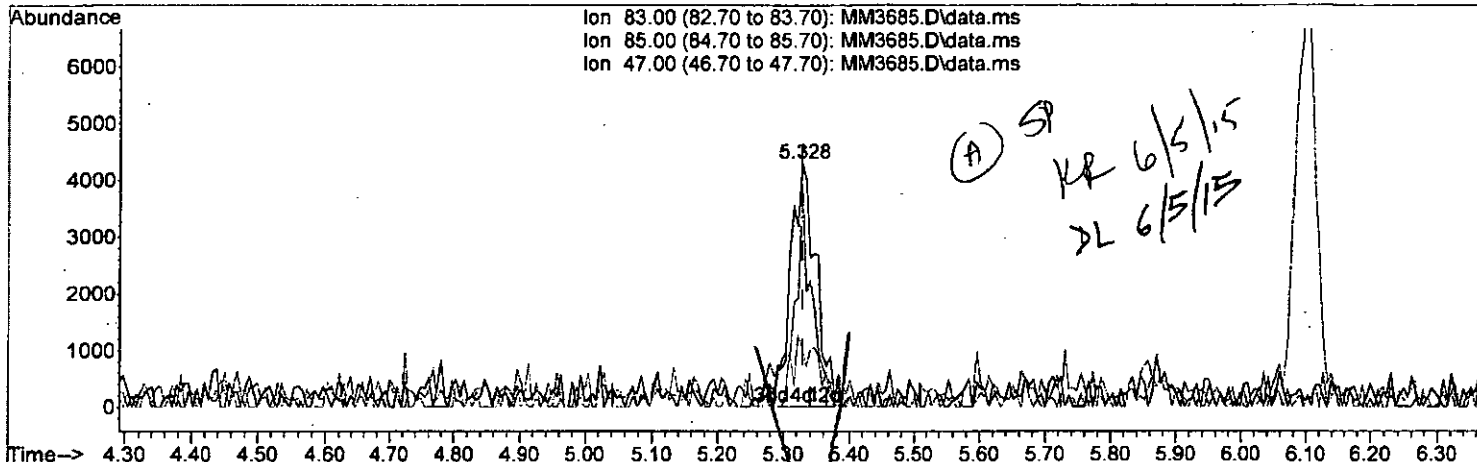
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	67.45
47.00	24.70	39.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(40) Chloroform (P)

5.328min (-0.000) 0.88 ppb m

response 11210

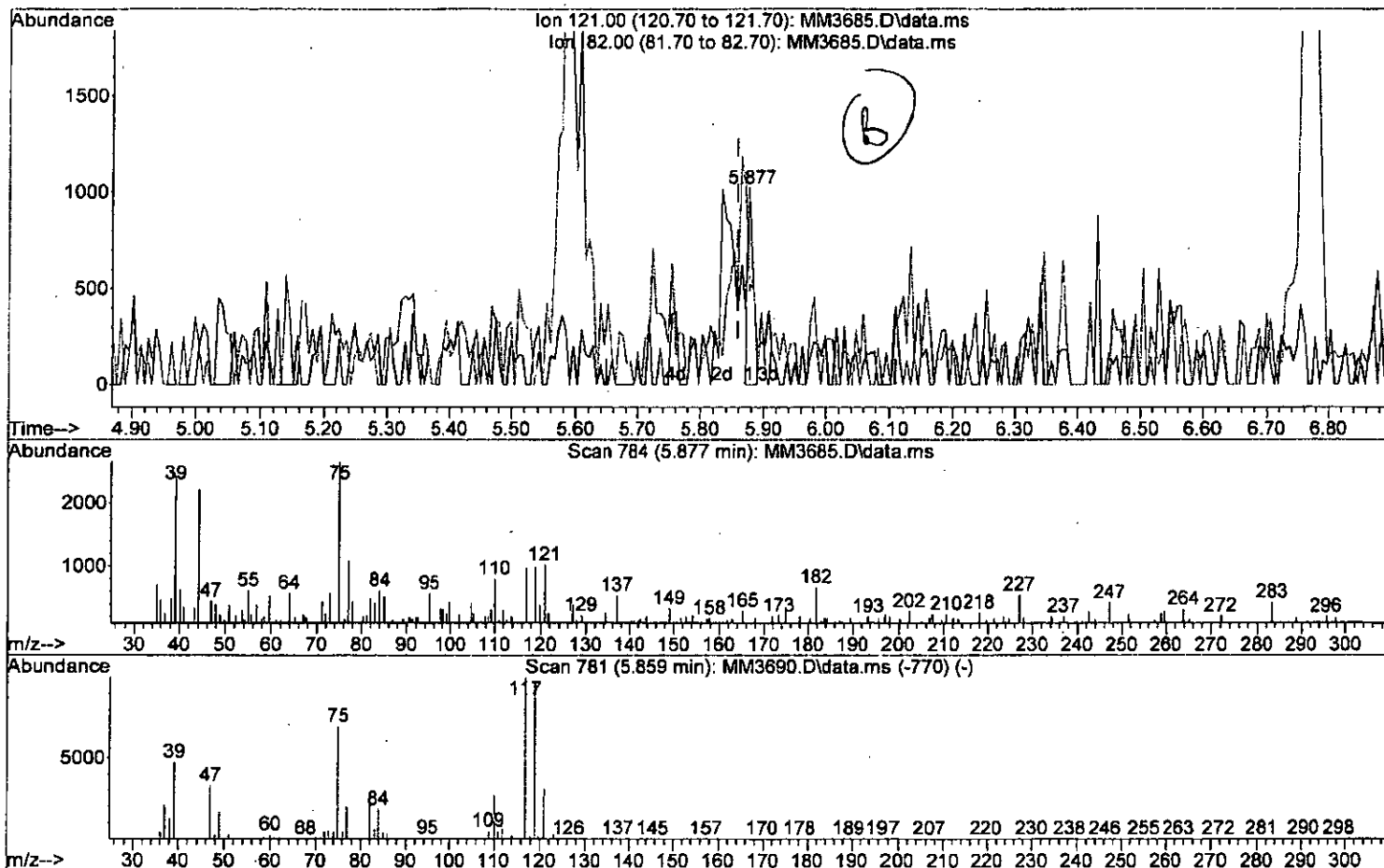
Ion	Exp%	Act%
83.00	100	100
85.00	63.80	91.18#
47.00	24.70	23.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.20 ppb

response 634

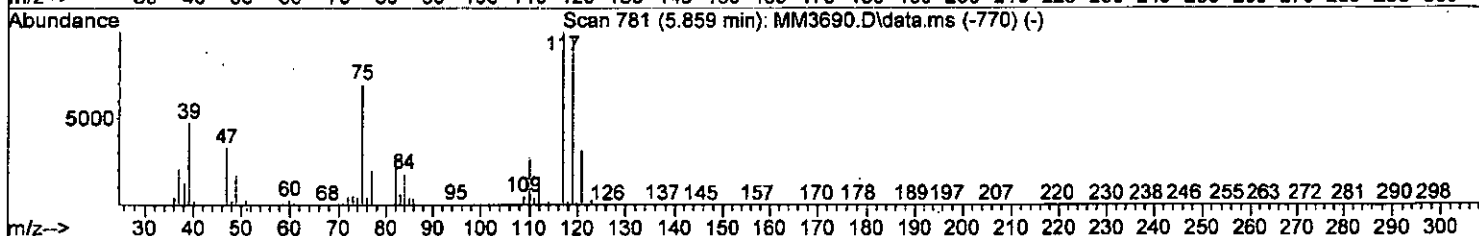
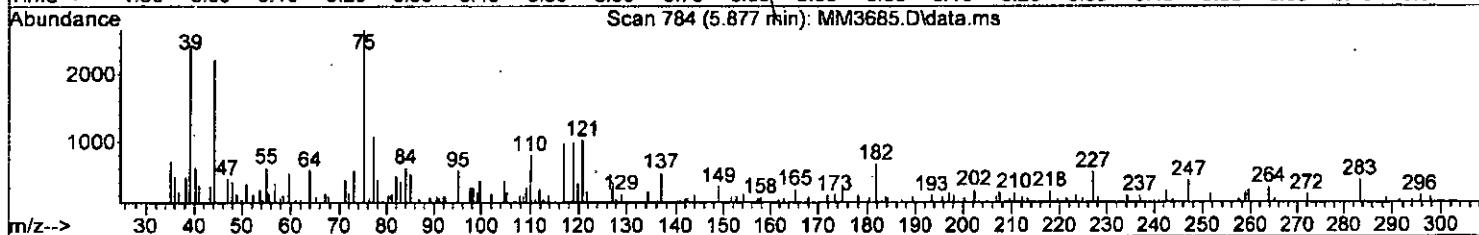
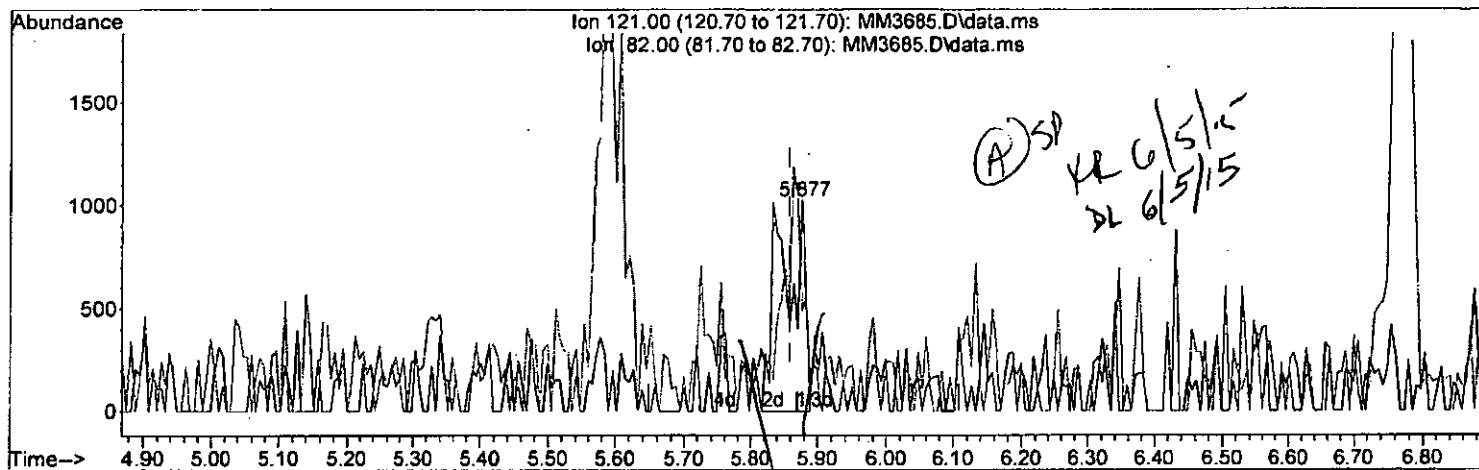
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	47.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.78 ppb m

response 2524

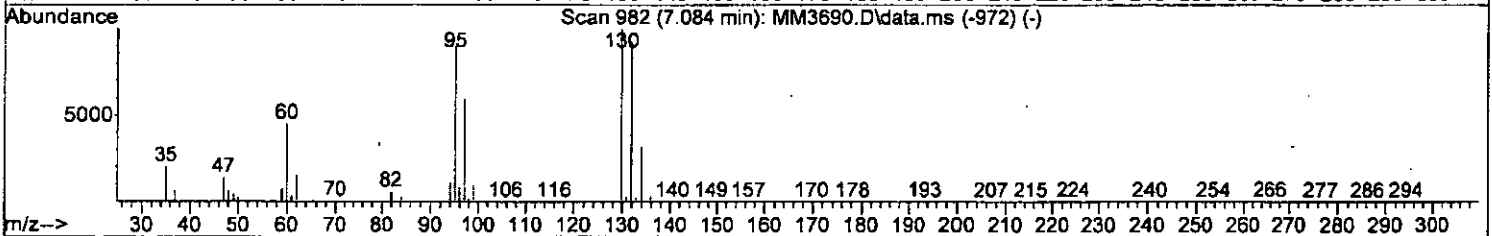
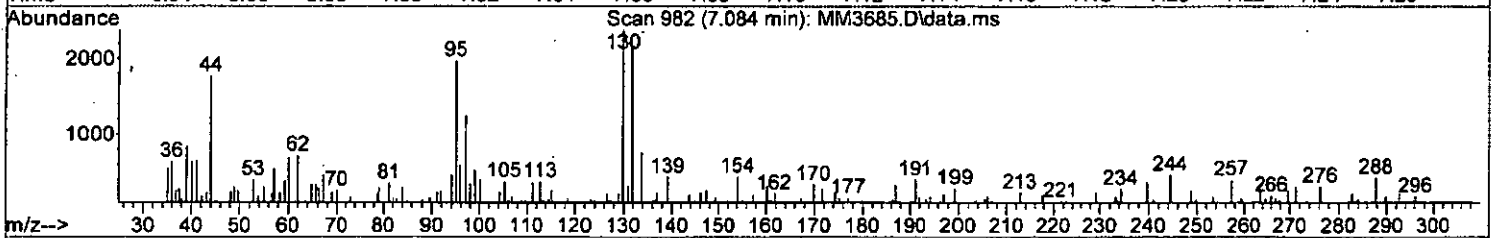
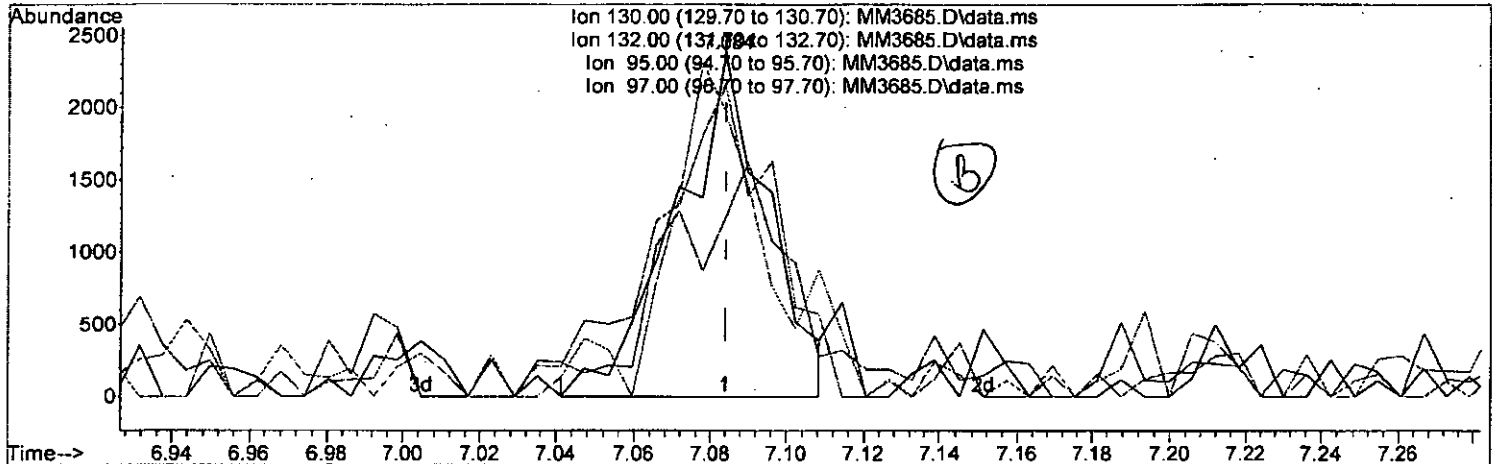
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	47.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(54) Trichloroethene (P)

7.084min (-0.000) 0.50 ppb

response 3972

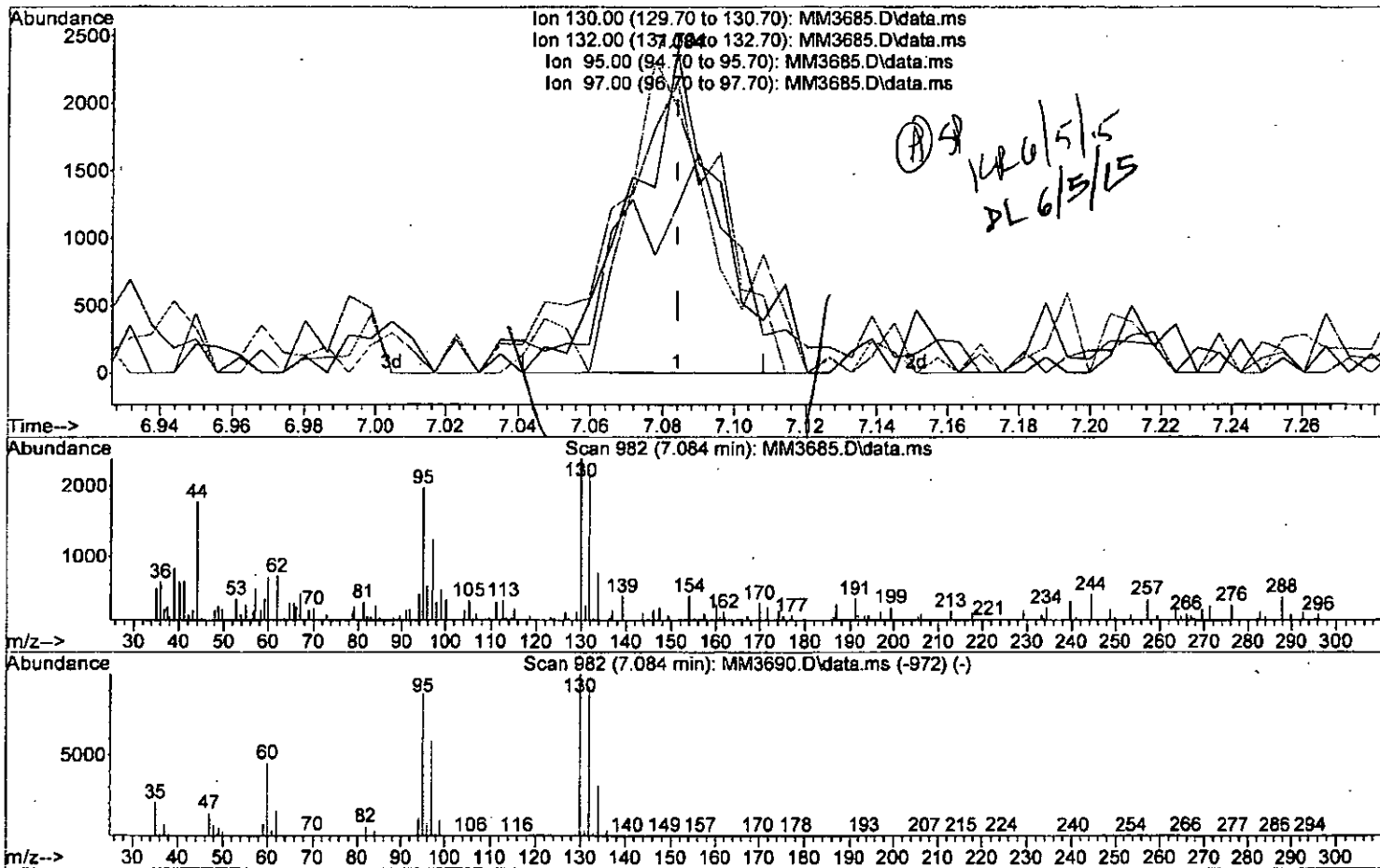
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	95.58
95.00	89.80	82.90
97.00	58.80	52.23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(54) Trichloroethene (P)

7.084min (-0.000) 0.53 ppb m

response 4211

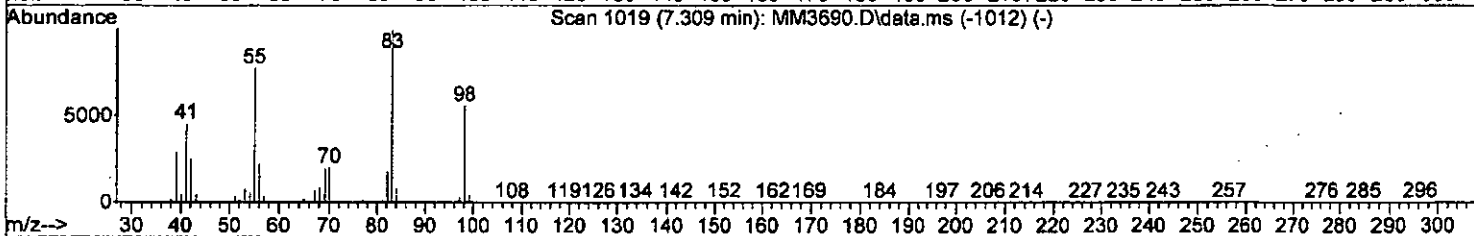
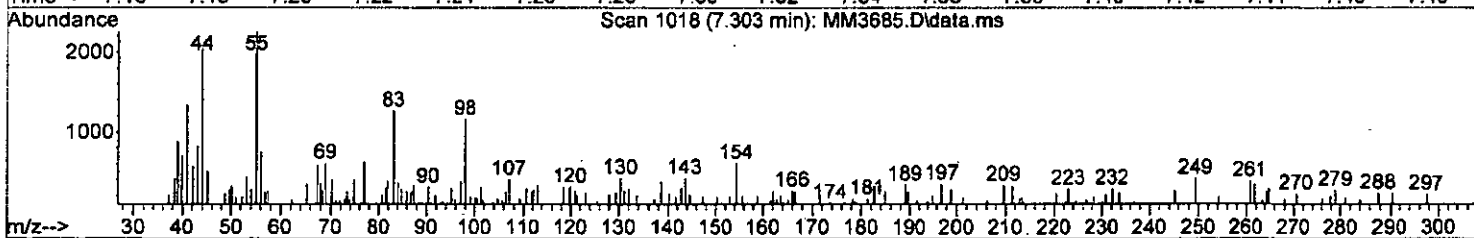
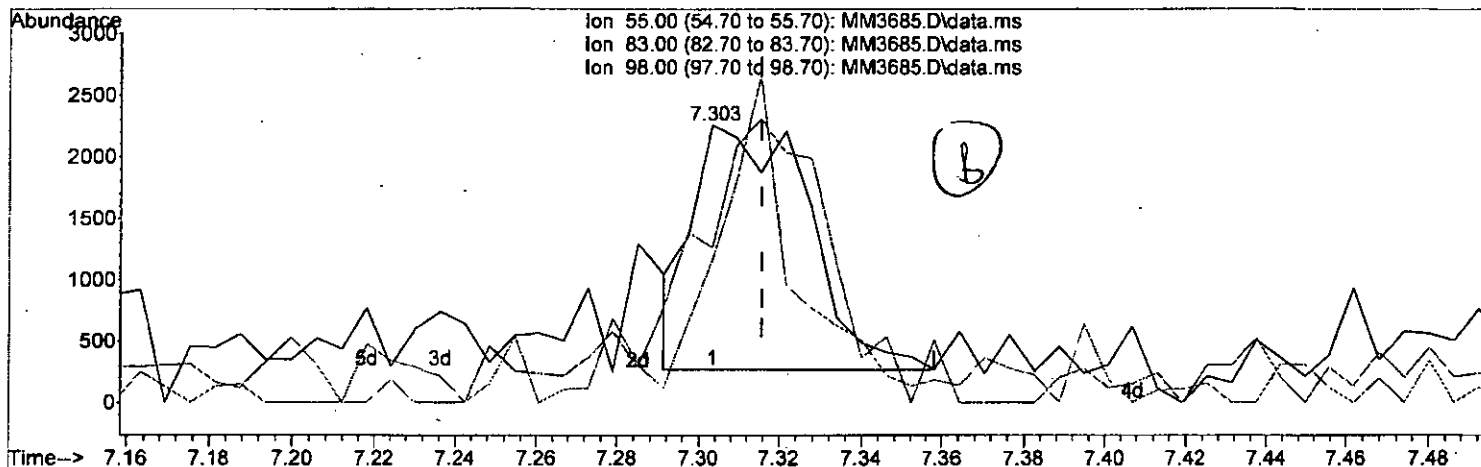
Ion	Exp%	Act%
130.00	100	100
132.00	92.70	90.69
95.00	89.80	82.90
97.00	58.80	52.23

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.012) 0.53 ppb

response 3924

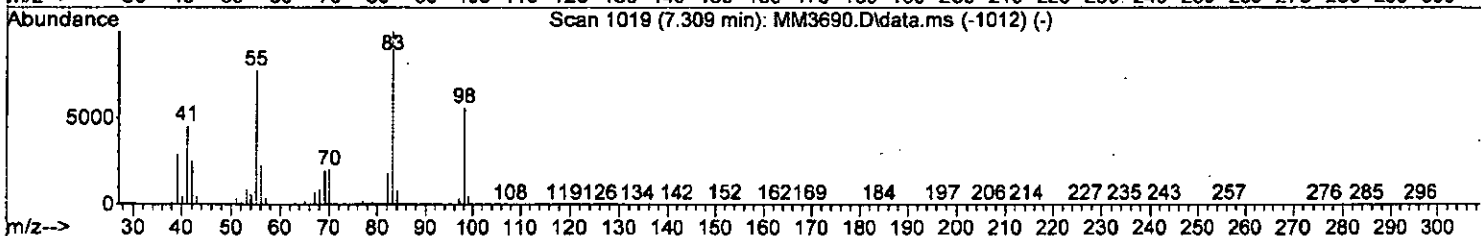
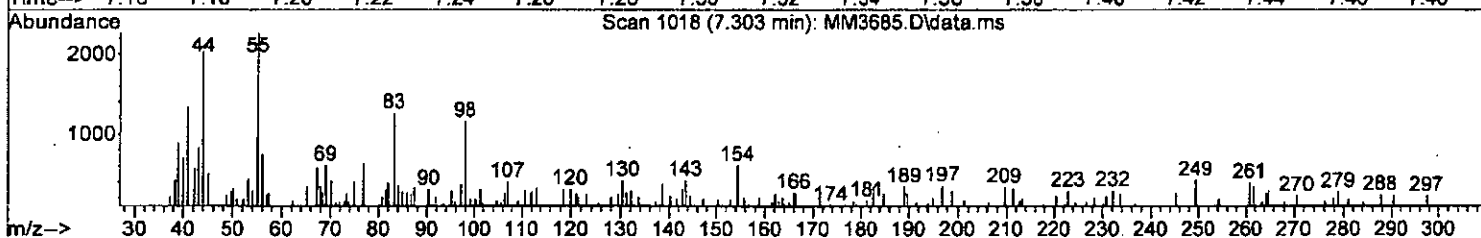
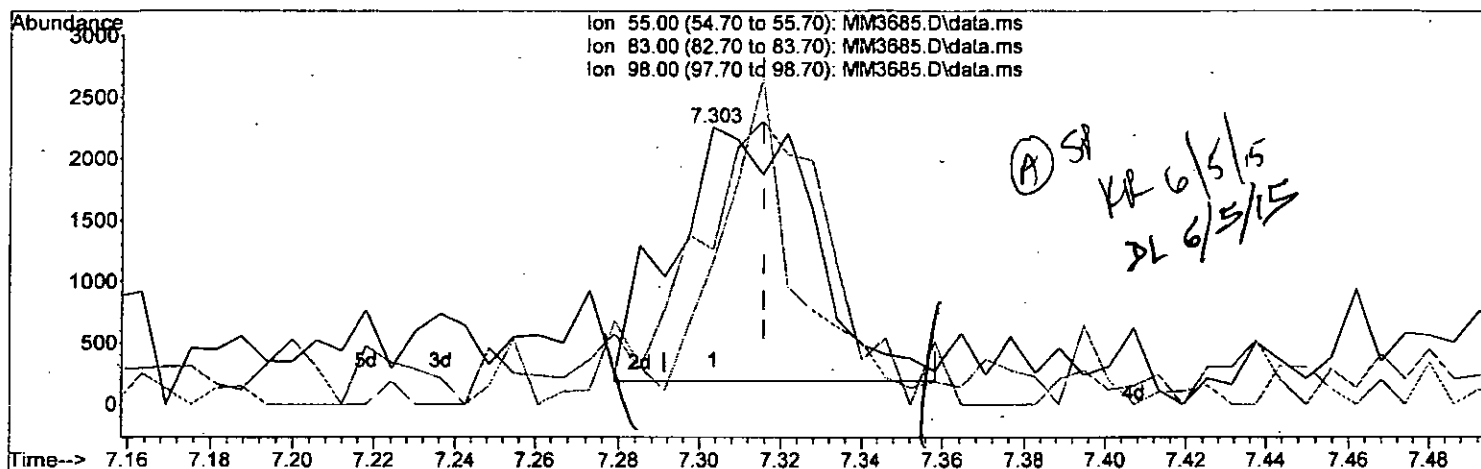
Ion	Exp%	Act%
55.00	100	100
83.00	129.00	55.88#
98.00	71.90	51.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(55) Methylcyclohexane (P)

7.303min (-0.012) 0.67 ppb m

response 4943

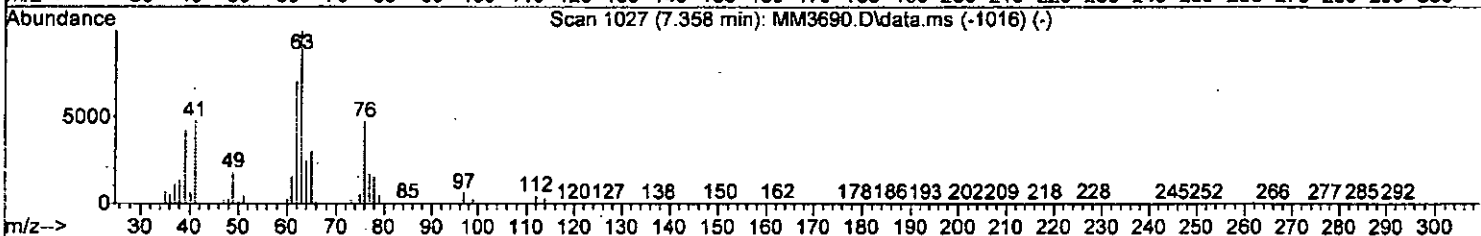
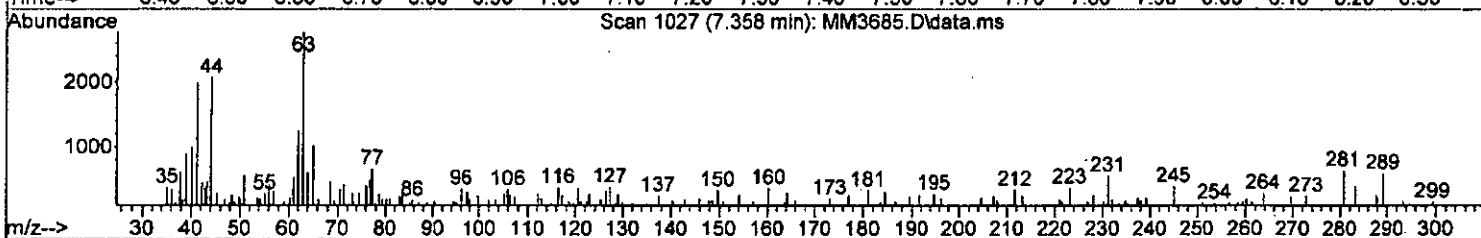
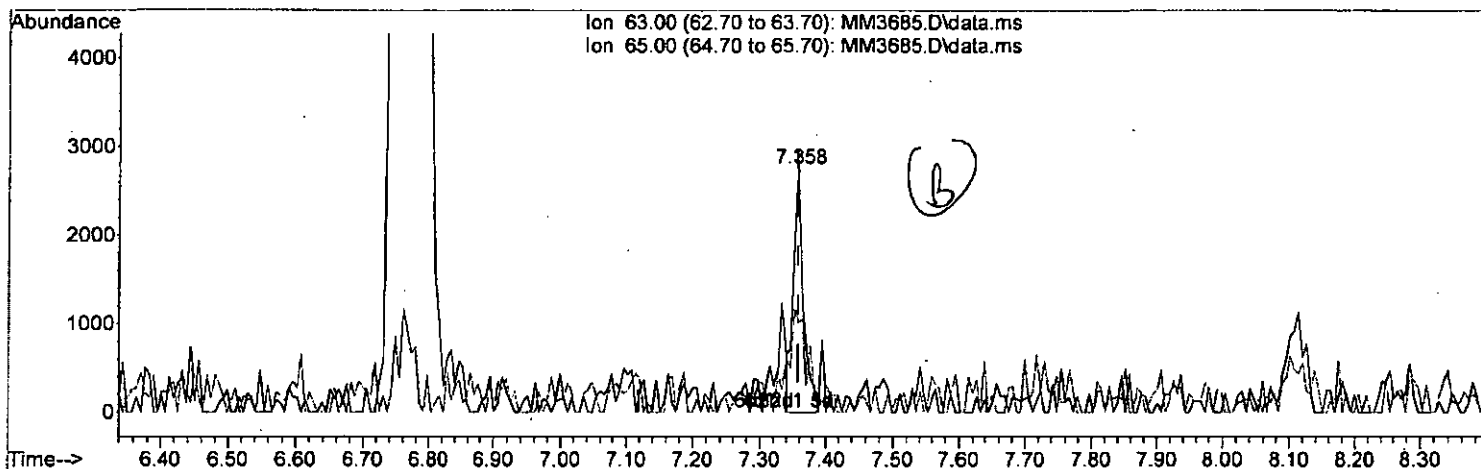
Ion	Exp%	Act%
55.00	100	100
83.00	129.00	55.88#
98.00	71.90	51.31#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(56) 1,2-Dichloropropane (P)

7.358min (-0.000) 0.41 ppb

response 2882

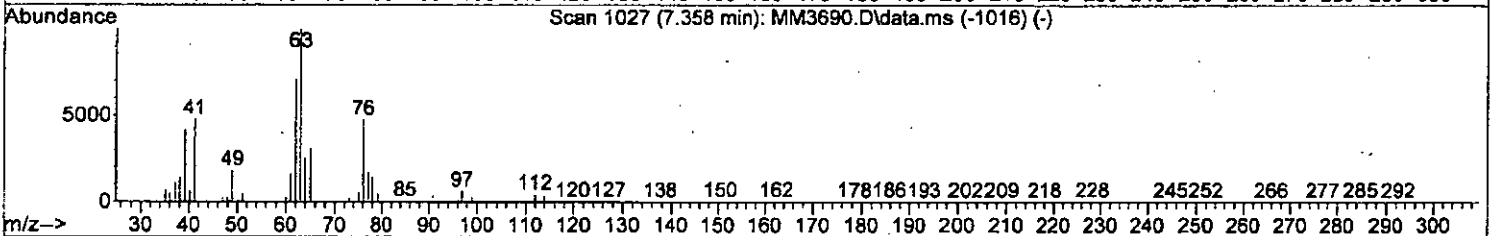
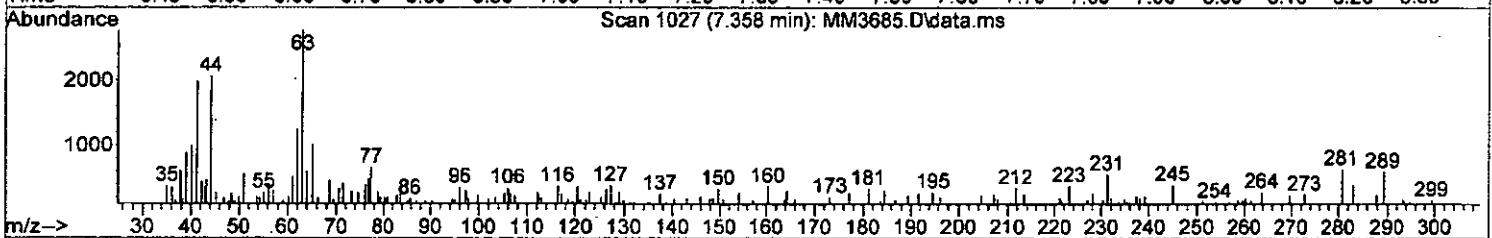
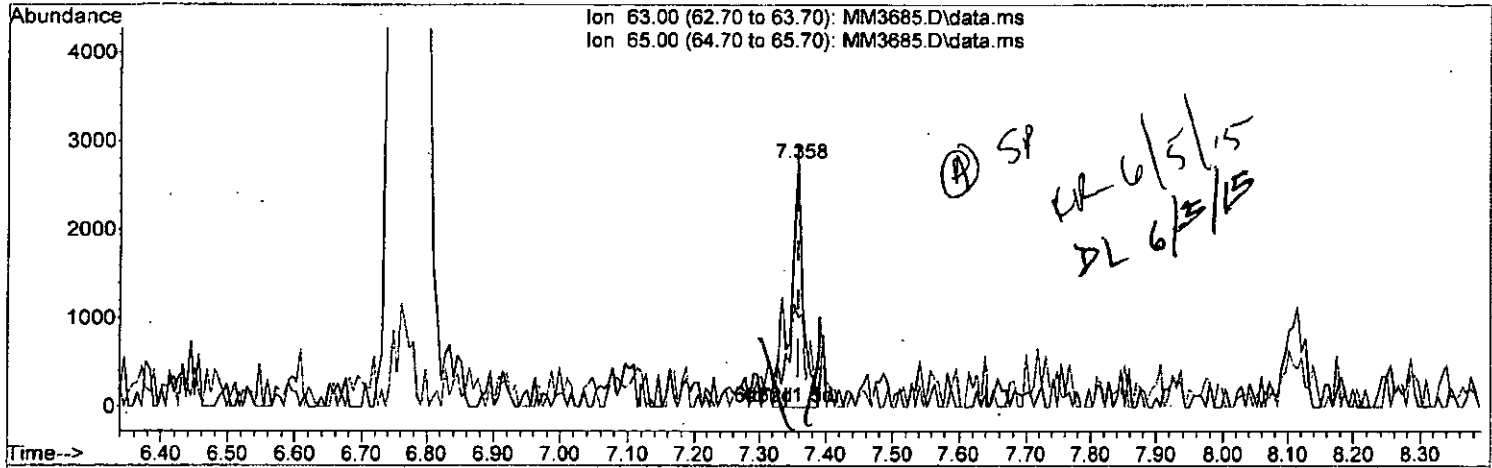
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	36.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(56) 1,2-Dichloropropane (P)

7.358min (-0.000) 0.53 ppb m

response 3747

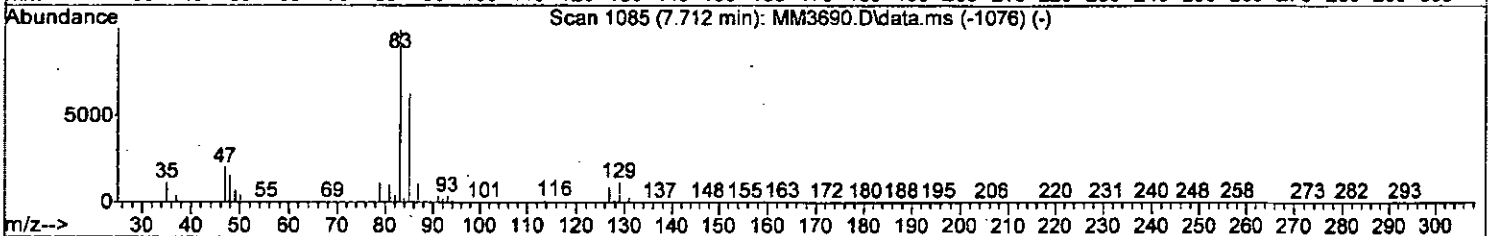
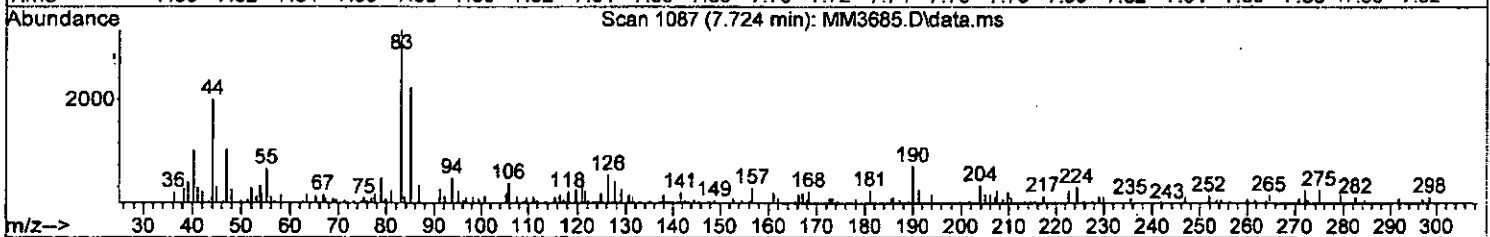
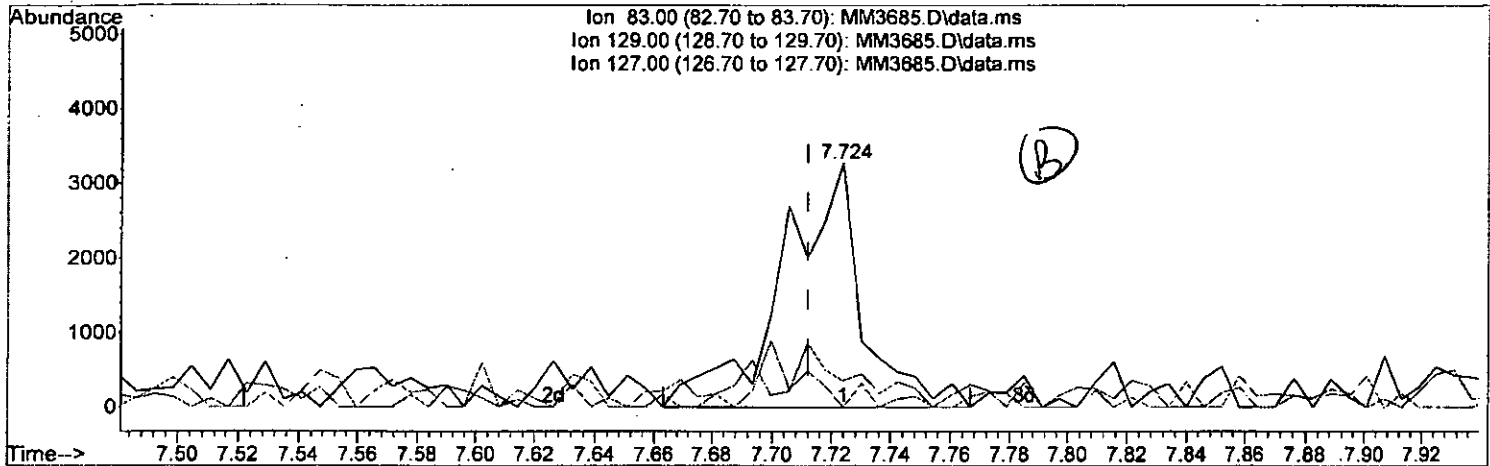
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	36.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(60) Bromodichloromethane (P)

7.724min (+0.012) 0.59 ppb

response 6106

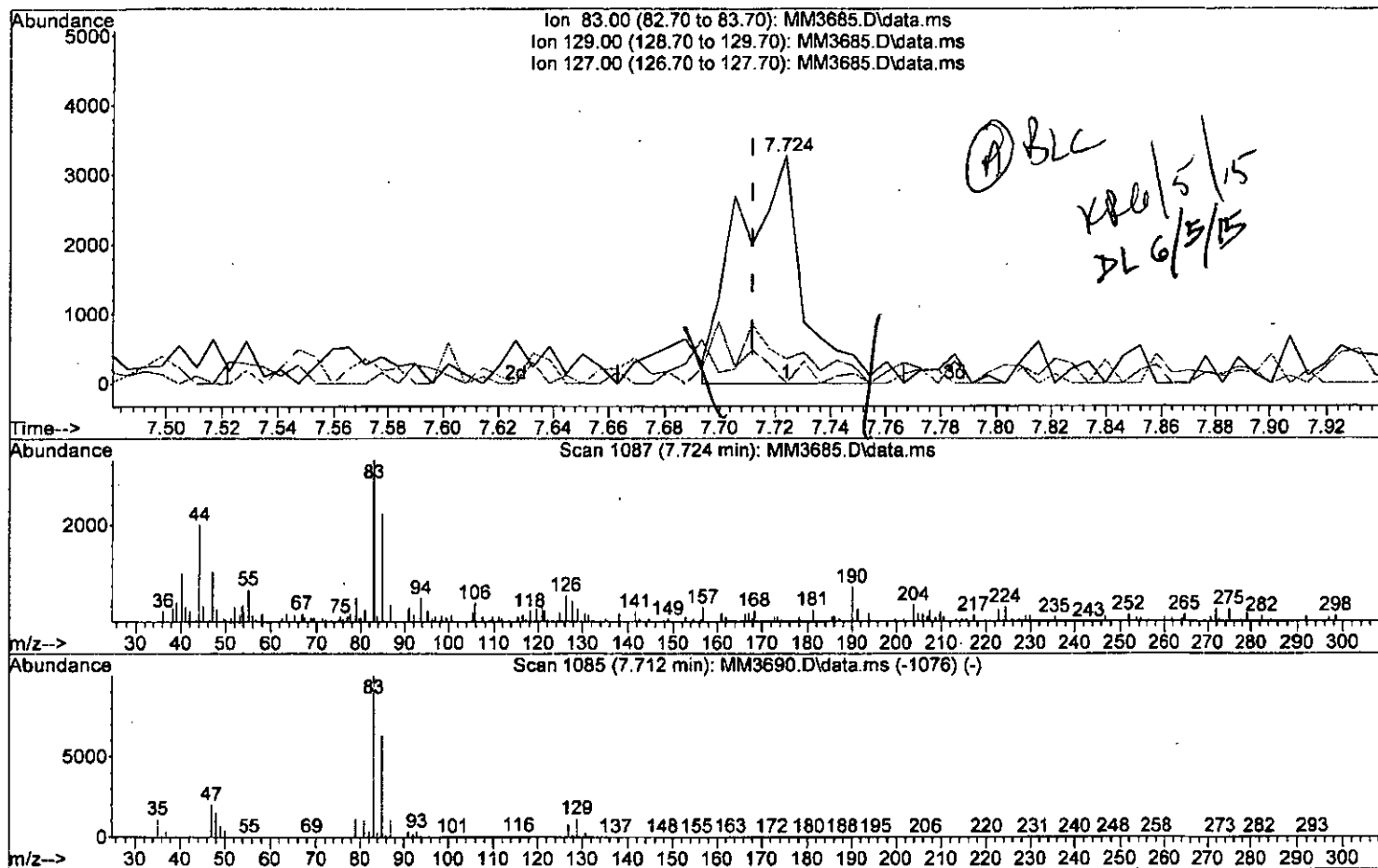
Ion	Exp%	Act%
83.00	100	100
129.00	11.70	10.04
127.00	8.00	14.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
Data File : MM3685.D
Acq On : 4 Jun 2015 12:40 pm
Operator : K.Ruest
Sample : 0.5ppb
Misc : 8260 WATER ICAL
ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3685.D\data.ms

(60) Bromodichloromethane (P)

7.724min (+0.012) 0.50 ppb m

response 5195

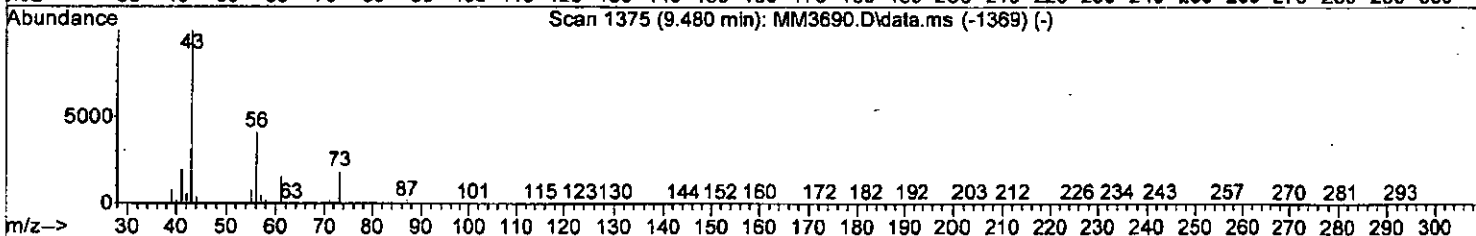
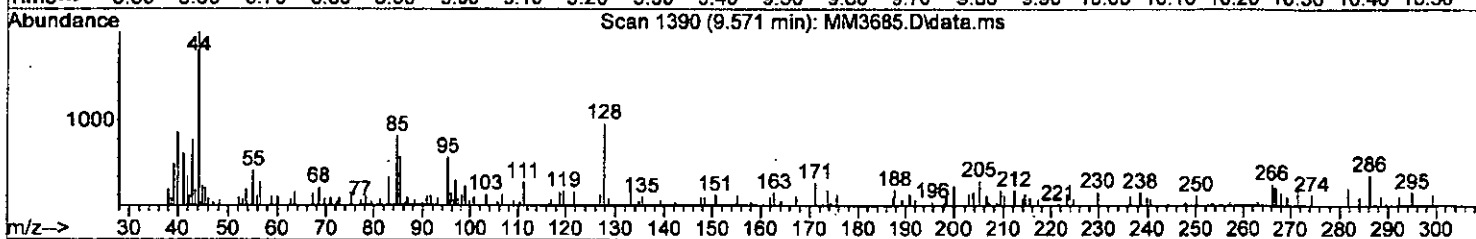
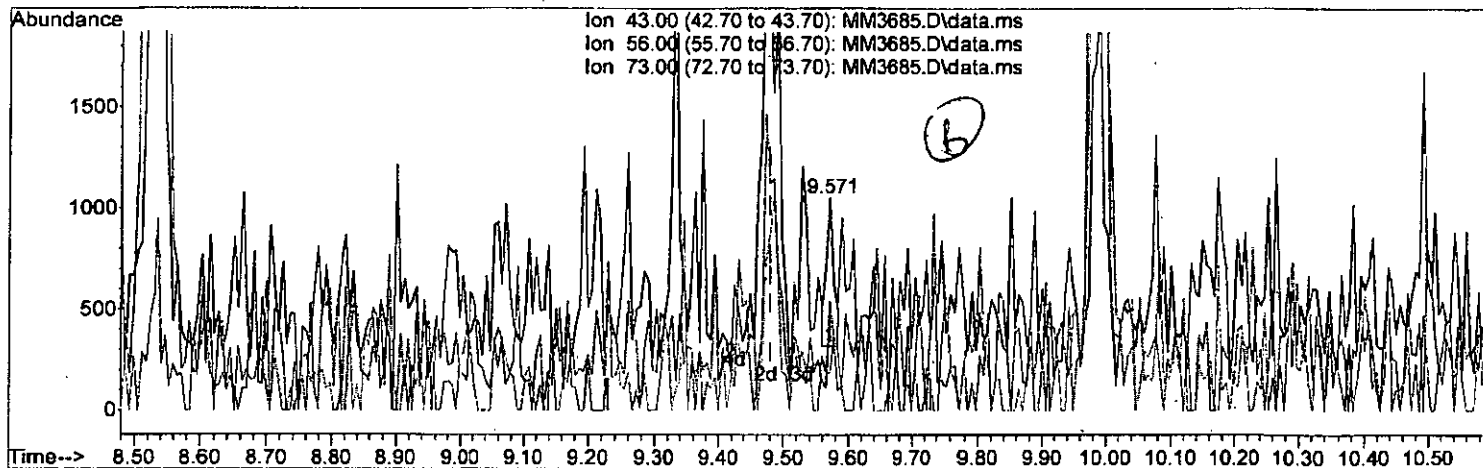
Ion	Exp%	Act%
83.00	100	100
129.00	11.70	10.68
127.00	8.00	14.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(76) N-Butyl Acetate

9.571min (+0.091) 0.08 ppb

response 587

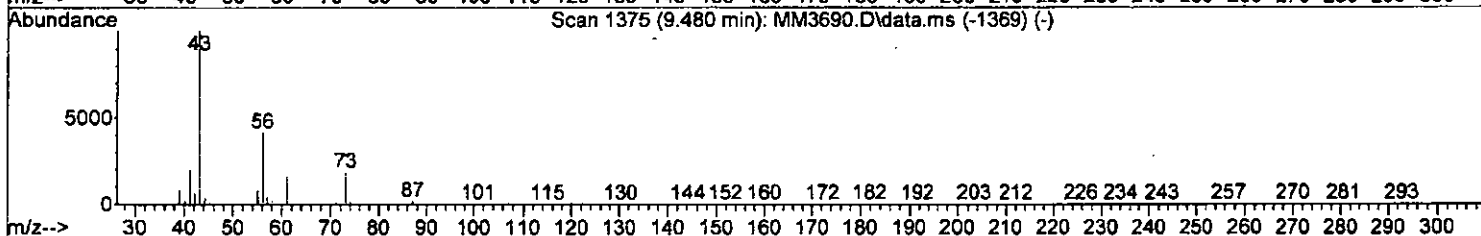
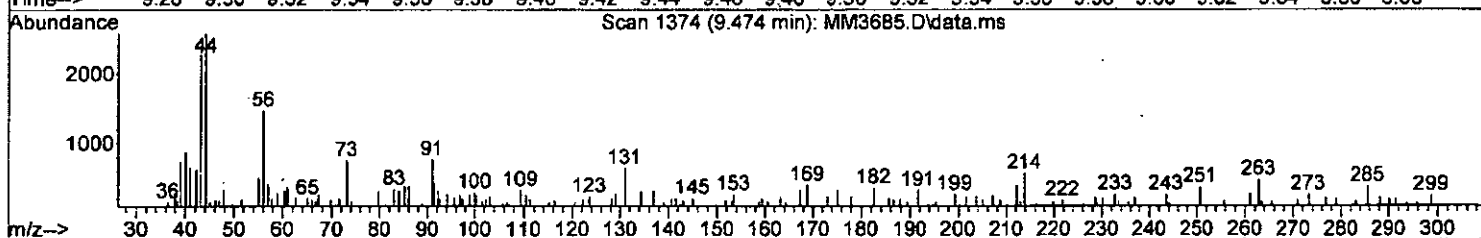
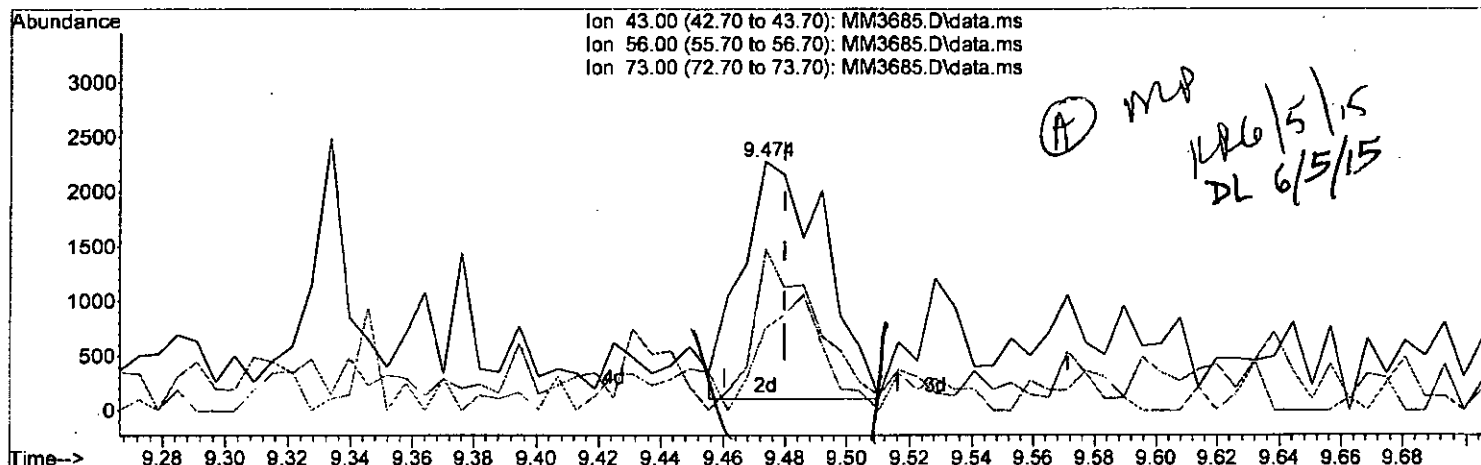
Ion	Exp%	Act%
43.00	100	100
56.00	41.30	51.19
73.00	18.50	17.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:31 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3685.D\data.ms

(76) N-Butyl Acetate

9.474min (-0.006) 0.55 ppb m

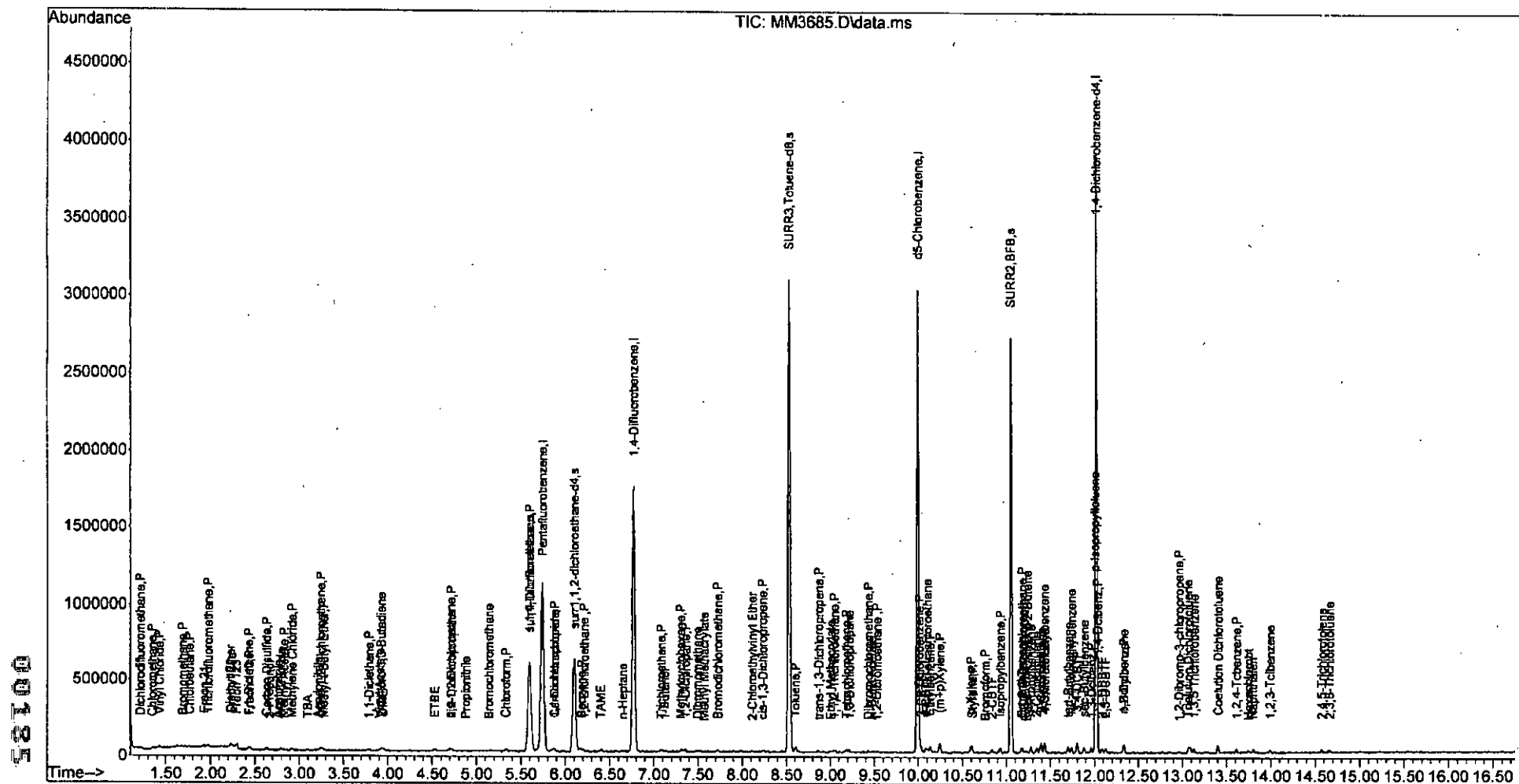
response 4043

Ion	Exp%	Act%
43.00	100	100
56.00	41.30	64.41#
73.00	18.50	32.95
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3685.D
 Acq On : 4 Jun 2015 12:40 pm
 Operator : K.Ruest
 Sample : 0.5ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 7 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:58:01 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:12:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	898779	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1482497	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1392808	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	737650	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	426443	53.16	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.32%			
48) surr1, 1,2-dichloroetha...	6.096	65	463968	54.14	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.28%			
65) SURR3, Toluene-d8	8.529	98	1893219	54.03	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.06%			
70) SURR2, BFB	11.047	95	716465	53.82	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 107.64%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	7862m	1.01	ppb	
3) Chloromethane	1.341	50	7955	1.07	ppb	100
4) Vinyl Chloride	1.427	62	9985	1.07	ppb	87
5) Bromomethane	1.683	94	5149m	0.94	ppb	
6) Chloroethane	1.762	64	6859	1.10	ppb	98
7) Freon 21	1.927	67	16186	1.04	ppb	92
8) Trichlorofluoromethane	1.975	101	15234	1.09	ppb	89
9) Diethyl Ether	2.231	59	7133	1.15	ppb	# 81
10) Freon 123a	2.231	67	11569	1.15	ppb	# 65
11) Freon 123	2.298	83	13449	1.16	ppb	92
12) Acrolein	2.341	56	3763m	5.80	ppb	
13) 1,1-Dicethene	2.426	96	7725	1.17	ppb	# 82
14) Freon 113	2.439	101	7180	1.10	ppb	97
16) 2-Propanol	2.652	45	5217	21.07	ppb	73
17) Iodomethane	2.573	142	3936	0.57	ppb	82
18) Carbon Disulfide	2.634	76	22191	1.05	ppb	94
19) Acetonitrile	2.762	40	1252	7.60	ppb	# 44
20) Allyl Chloride	2.798	76	4351	1.09	ppb	# 78
21) Methyl Acetate	2.829	43	2931	1.07	ppb	78
22) Methylene Chloride	2.920	84	8172	1.16	ppb	# 79
23) TBA	3.097	59	9796	21.95	ppb	99
24) Acrylonitrile	3.213	53	8438m	5.86	ppb	
25) Methyl-t-Butyl Ether	3.262	73	16669	0.97	ppb	69
26) trans-1,2-Dichloroethene	3.243	96	7915	1.07	ppb	# 76
28) 1,1-Dicethane	3.792	63	12550	1.03	ppb	93
29) Vinyl Acetate	3.908	86	1958m	1.34	ppb	
30) DIPE	3.944	45	21806	1.03	ppb	92
31) 2-Chloro-1,3-Butadiene	3.926	53	13718	1.03	ppb	96
32) ETBE	4.524	59	21815	1.03	ppb	89
33) 2,2-Dichloropropane	4.700	77	12209	1.05	ppb	79
34) cis-1,2-Dichloroethene	4.713	96	8353	1.06	ppb	95
37) Bromochloromethane	5.152	130	5385m	1.24	ppb	
38) Methacrylonitrile	5.164	67	2127m	1.10	ppb	
40) Chloroform	5.328	83	13953	1.09	ppb	81

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:12:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
41) 1,1,1-Trichloroethane	5.597	97	12945m	1.04	ppb	
42) TAME	6.401	73	20708	1.12	ppb	90
44) Cyclohexane	5.676	41	7950m	1.18	ppb	
46) Carbontetrachloride	5.865	121	3282m	1.02	ppb	
47) 1,1-Dichloropropene	5.877	75	10461	1.03	ppb	97
49) Benzene	6.176	78	29582	1.01	ppb	99
50) 1,2-Dichloroethane	6.212	62	10498	1.11	ppb	85
51) Iso-Butyl Alcohol	6.206	43	6644	34.04	ppb	# 72
52) n-Heptane	6.639	43	7028	1.12	ppb	91
53) 1-Butanol	7.121	56	6136	49.51	ppb	# 67
54) Trichloroethene	7.090	130	7589	0.96	ppb	94
55) Methylcyclohexane	7.304	55	6957	0.94	ppb	# 70
56) 1,2-Dichloropropane	7.346	63	7794m	1.11	ppb	
57) Dibromomethane	7.493	93	4299	1.14	ppb	# 78
59) Methyl Methacrylate	7.584	69	3393	0.97	ppb	# 71
60) Bromodichloromethane	7.712	83	11072	1.07	ppb	90
61) 2-Nitropropane	7.992	41	2664	2.02	ppb	84
62) 2-Chloroethylvinyl Ether	8.102	63	3077	0.95	ppb	77
63) cis-1,3-Dichloropropene	8.236	75	11972	1.01	ppb	88
64) 4-Methyl-2-pentanone	8.438	43	4764	1.19	ppb	86
66) Toluene	8.602	91	34813	1.03	ppb	93
67) trans-1,3-Dichloropropene	8.864	75	10184	1.01	ppb	93
68) Ethyl Methacrylate	9.004	69	6676	0.91	ppb	86
69) 1,1,2-Trichloroethane	9.053	97	5608m	1.03	ppb	
72) Tetrachloroethene	9.181	164	7062m	1.11	ppb	
74) 1,3-Dichloropropane	9.212	76	8436	0.92	ppb	82
75) Dibromochloromethane	9.437	129	6989	1.02	ppb	83
76) N-Butyl Acetate	9.480	43	7823	1.06	ppb	84
77) 1,2-Dibromoethane	9.529	107	6143	1.14	ppb	98
78) Chlorobenzene	10.016	112	21963	0.97	ppb	91
79) 3-CBTF	10.029	180	10188	0.95	ppb	# 84
80) 4-CBTF	10.077	180	9297	0.96	ppb	87
81) 1,1,1,2-Tetrachloroethane	10.102	131	6888	0.89	ppb	97
82) Ethylbenzene	10.126	106	12326	1.00	ppb	# 89
83) (m+p)Xylene	10.242	106	30514	2.04	ppb	95
84) o-Xylene	10.596	106	13238	0.91	ppb	97
85) Styrene	10.608	104	24833	1.00	ppb	88
87) Bromoform	10.754	173	3550	0.94	ppb	96
88) 2-CBTF	10.833	180	10701	1.00	ppb	# 83
89) Isopropylbenzene	10.925	105	35223	1.03	ppb	90
90) Cyclohexanone	10.992	55	4160	20.19	ppb	83
91) trans-1,4-Dichloro-2-B...	11.230	53	2126	1.15	ppb	81
92) 1,1,2,2-Tetrachloroethane	11.181	83	5961	0.96	ppb	97
93) Bromobenzene	11.175	156	8771	1.03	ppb	# 81
94) 1,2,3-Trichloropropane	11.211	110	2376	1.25	ppb	# 59
95) n-Propylbenzene	11.278	91	37856	0.98	ppb	98
96) 2-Chlorotoluene	11.339	91	21520	0.91	ppb	96
97) 3-Chlorotoluene	11.394	91	23749m	0.94	ppb	
98) 4-Chlorotoluene	11.437	91	27364	0.93	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	30440	1.04	ppb	96
100) tert-Butylbenzene	11.699	119	22543	0.95	ppb	92

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:12:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
101)	1,2,4-Trimethylbenzene	11.736	105	29757	1.00	ppb	93
102)	3,4-DCBTF	11.797	214	7070	1.01	ppb #	86
103)	sec-Butylbenzene	11.882	105	31078	0.96	ppb	98
104)	p-Isopropyltoluene	12.004	119	26453	0.96	ppb	91
105)	1,3-Dclbenz	11.967	146	16930	1.02	ppb	96
106)	1,4-Dclbenz	12.034	146	17661	1.02	ppb	96
107)	2,4-DCBTF	12.089	214	5964	0.96	ppb	89
108)	2,5-DCBTF	12.132	214	6546	0.94	ppb	93
109)	n-Butylbenzene	12.333	91	23410	0.95	ppb	99
110)	1,2-Dclbenz	12.333	146	15397	0.99	ppb	91
111)	1,2-Dibromo-3-chloropr...	12.961	157	1422	1.13	ppb #	71
112)	Trielution Dichlorotol...	13.077	125	38314	2.93	ppb	95
113)	1,3,5 Trichlorobenzene	13.126	180	10403	1.07	ppb #	89
114)	Coelution Dichlorotoluene	13.400	125	27567	1.97	ppb #	89
115)	1,2,4-Tcbenzene	13.607	180	8882	1.00	ppb #	78
116)	Hexachlorobt	13.747	225	3963	1.16	ppb	96
117)	Naphthalen	13.802	128	18606	0.99	ppb	92
118)	1,2,3-Tclbenzene	13.991	180	6933	0.95	ppb #	78
119)	2,4,5-Trichlorotoluene	14.570	159	6362m	1.09	ppb	
120)	2,3,6-Trichlorotoluene	14.656	159	5661	1.13	ppb	93

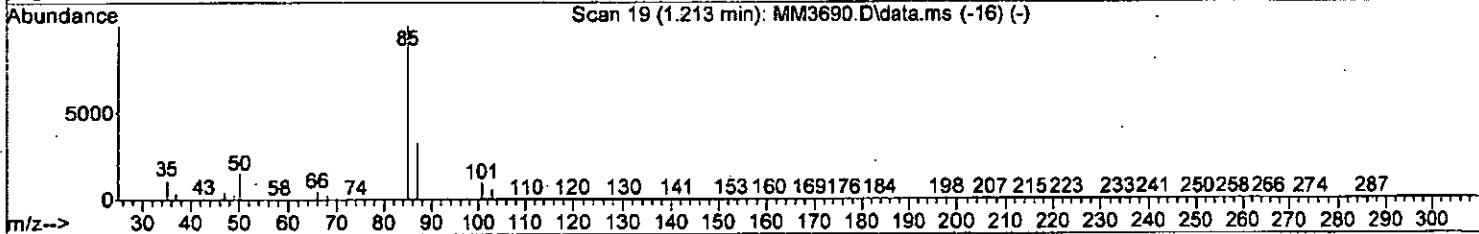
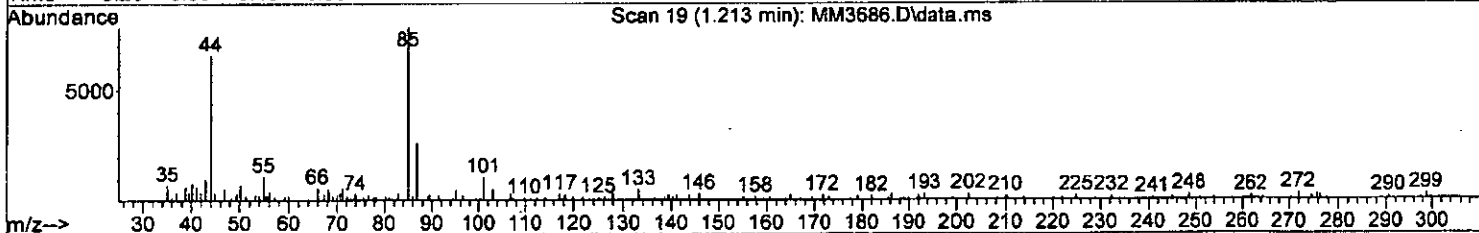
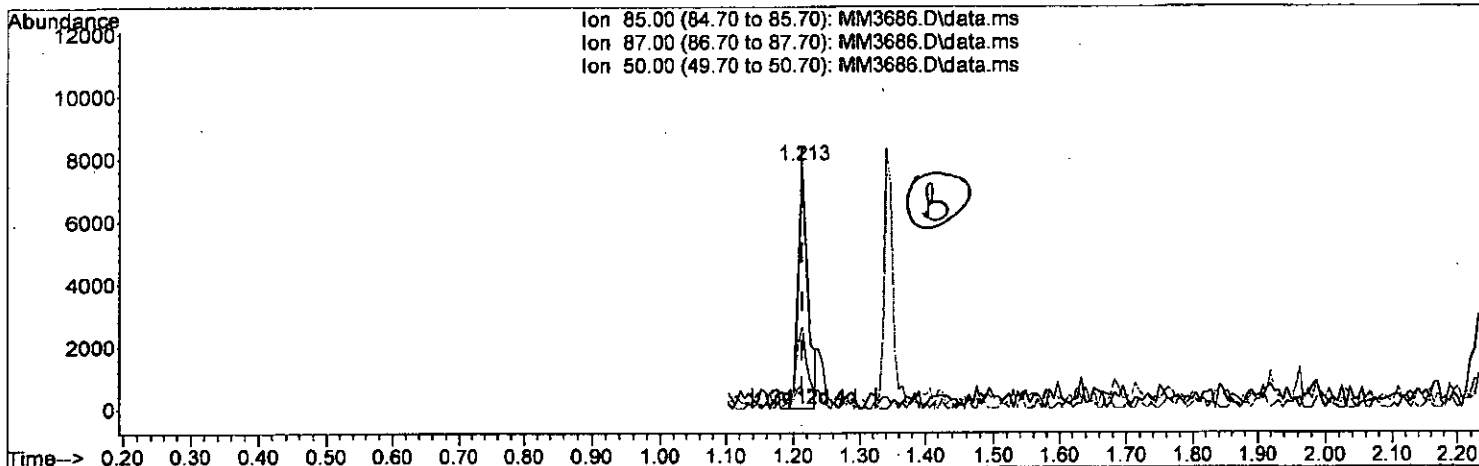
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (0.000) 0.98 ppb

response 7630

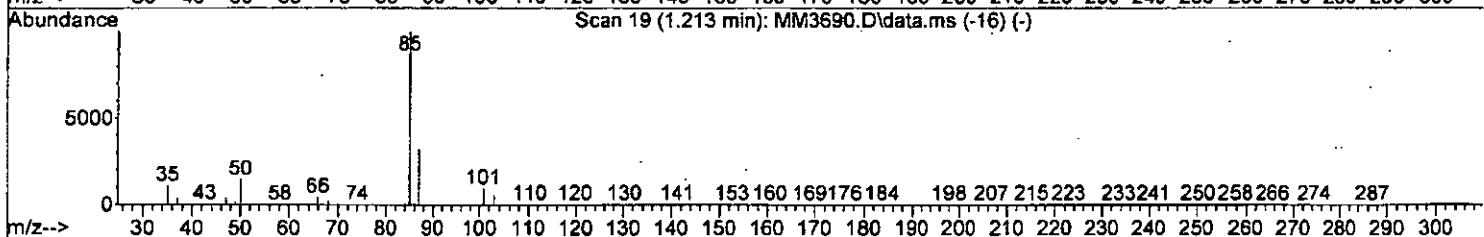
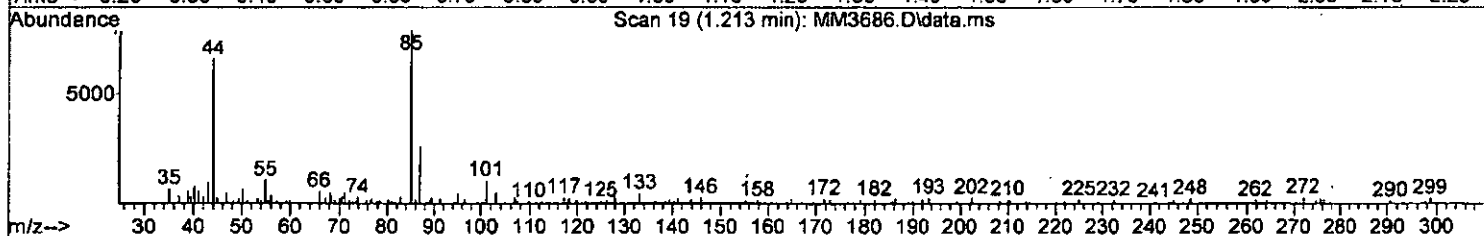
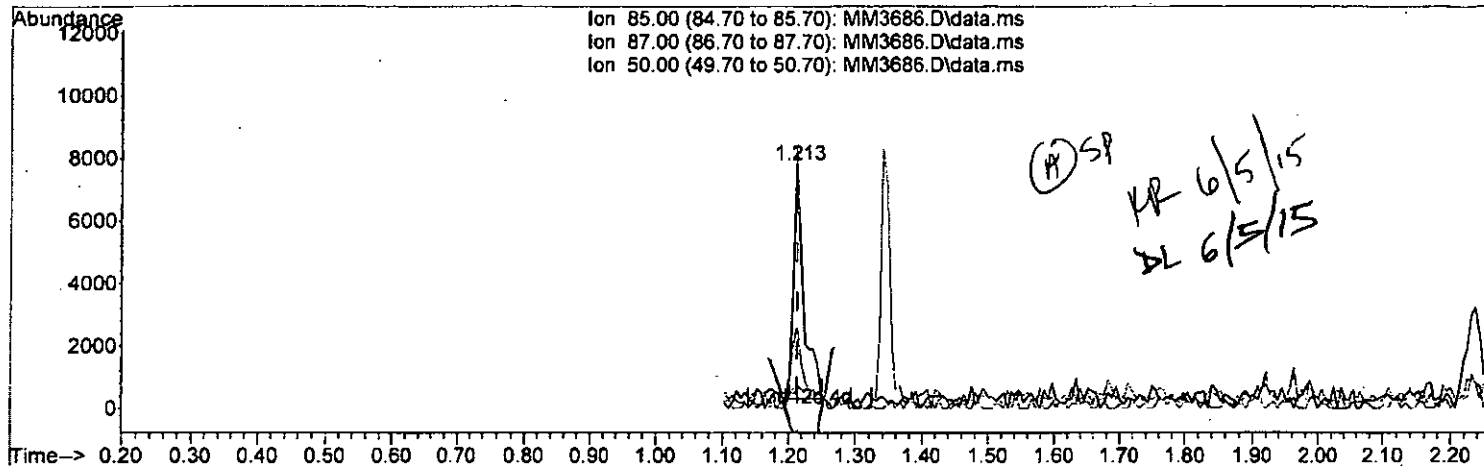
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	33.59
50.00	14.50	9.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (0.000) 1.01 ppb m

response 7862

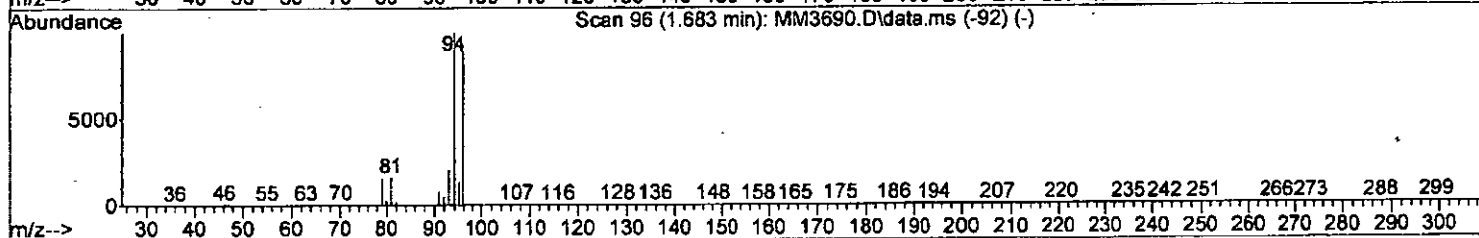
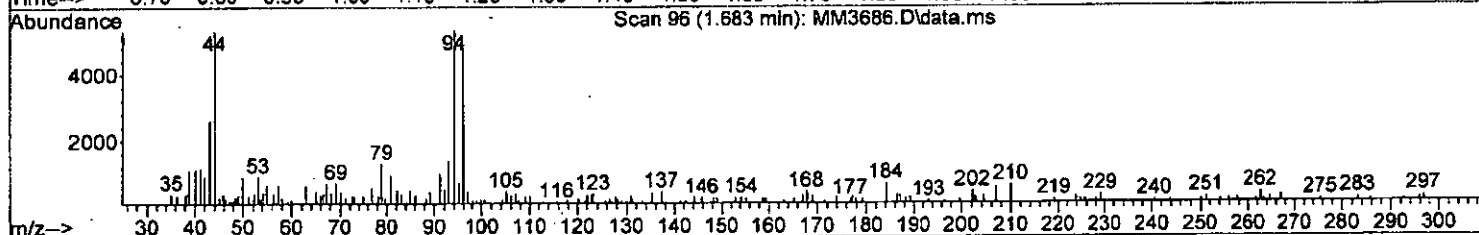
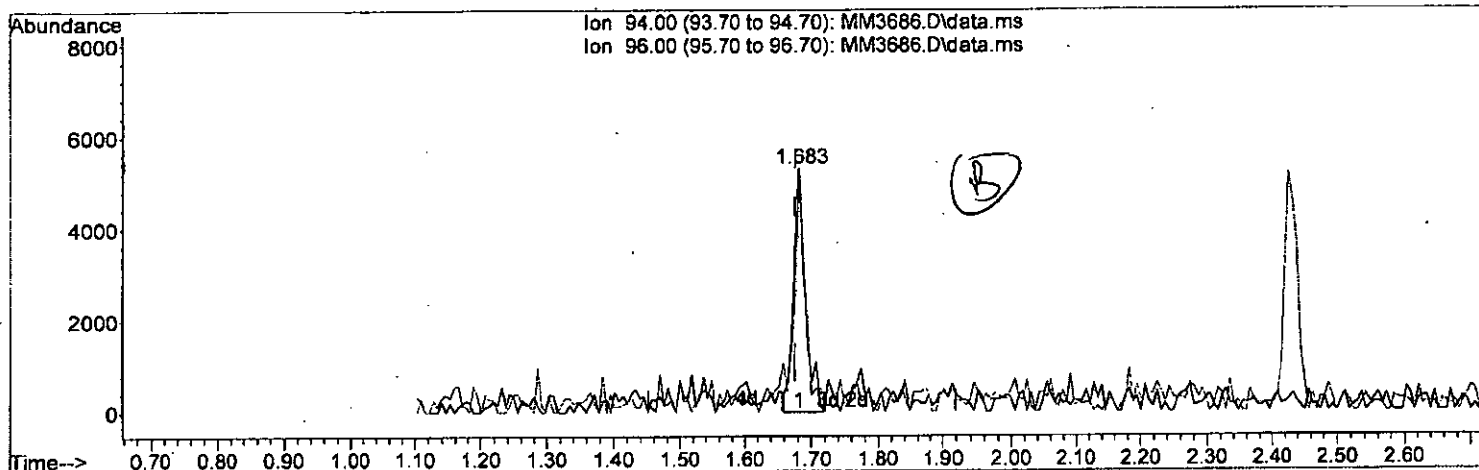
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	33.59
50.00	14.50	9.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 1.17 ppb

response 6423

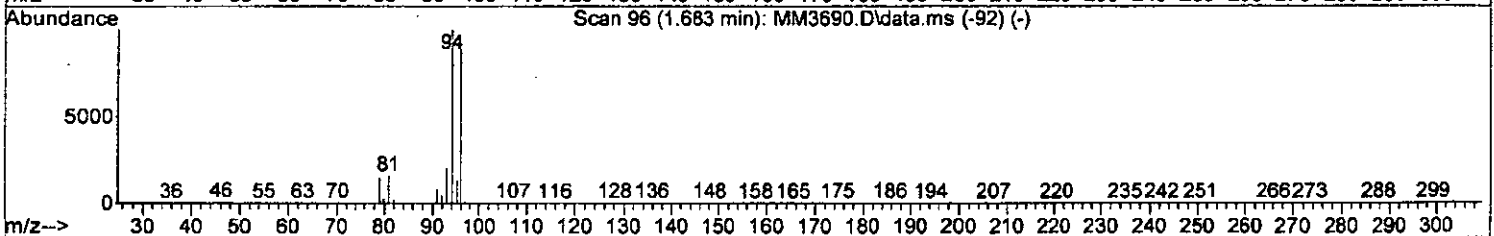
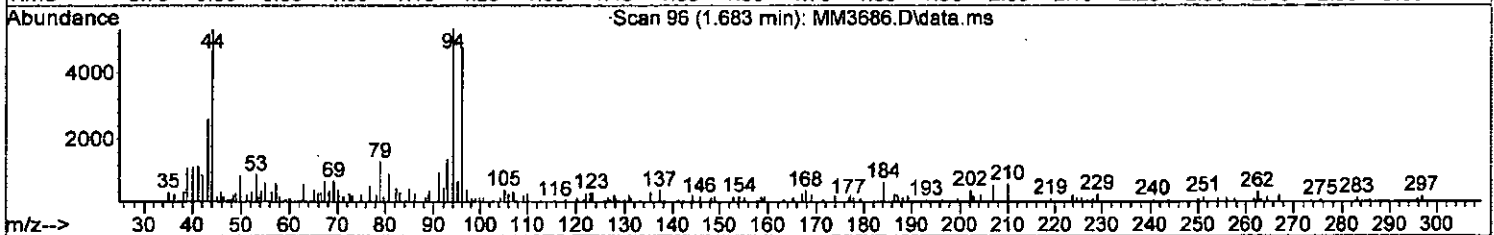
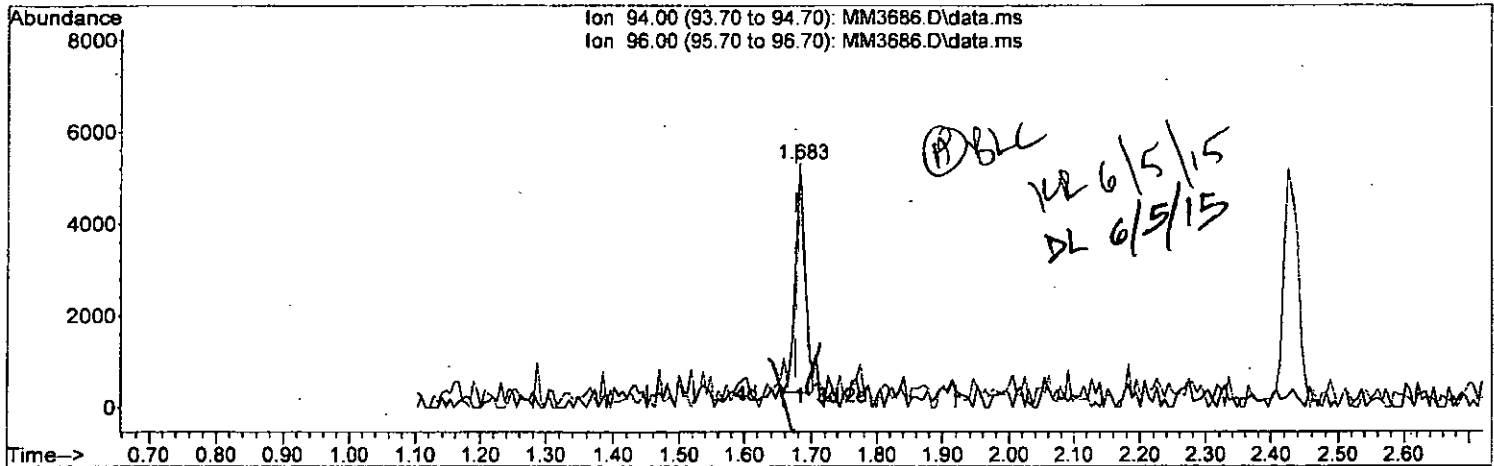
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	90.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(5) Bromomethane (P)

1.683min (+0.006) 0.94 ppb m

response 5149

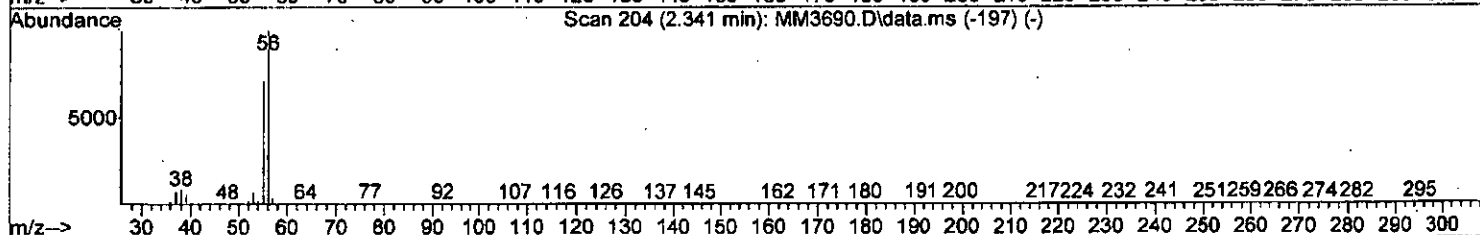
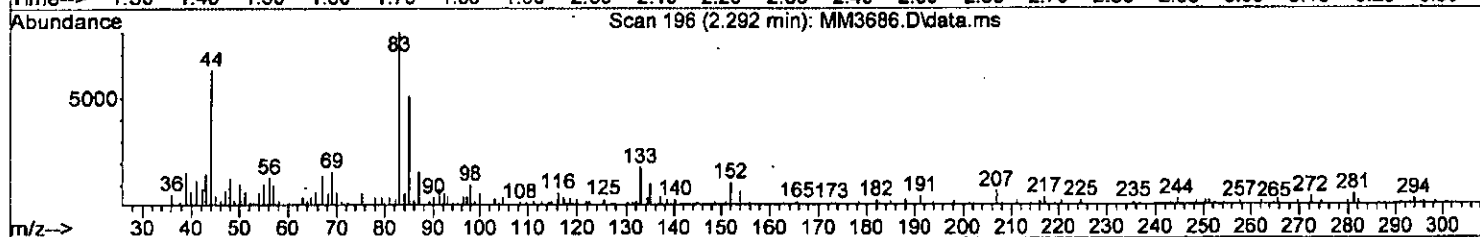
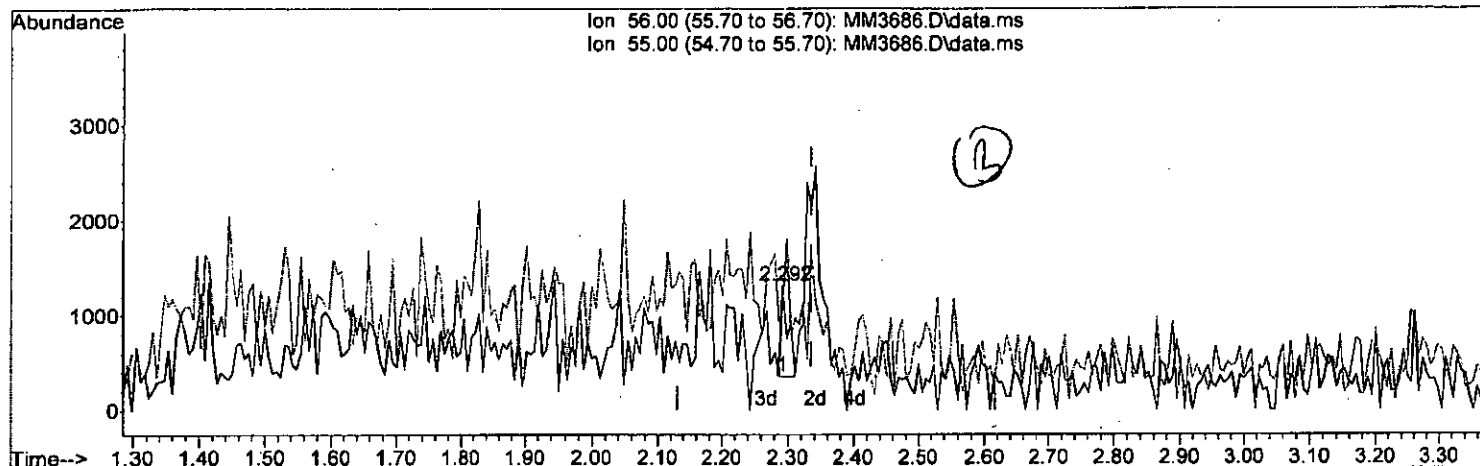
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	90.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update: Fri Jun 05 08:46:49 2015
 Response via: Initial Calibration



TIC: MM3686.D\data.ms

(12) Acrolein

2.292min (-0.043) 1.08 ppb

response 699

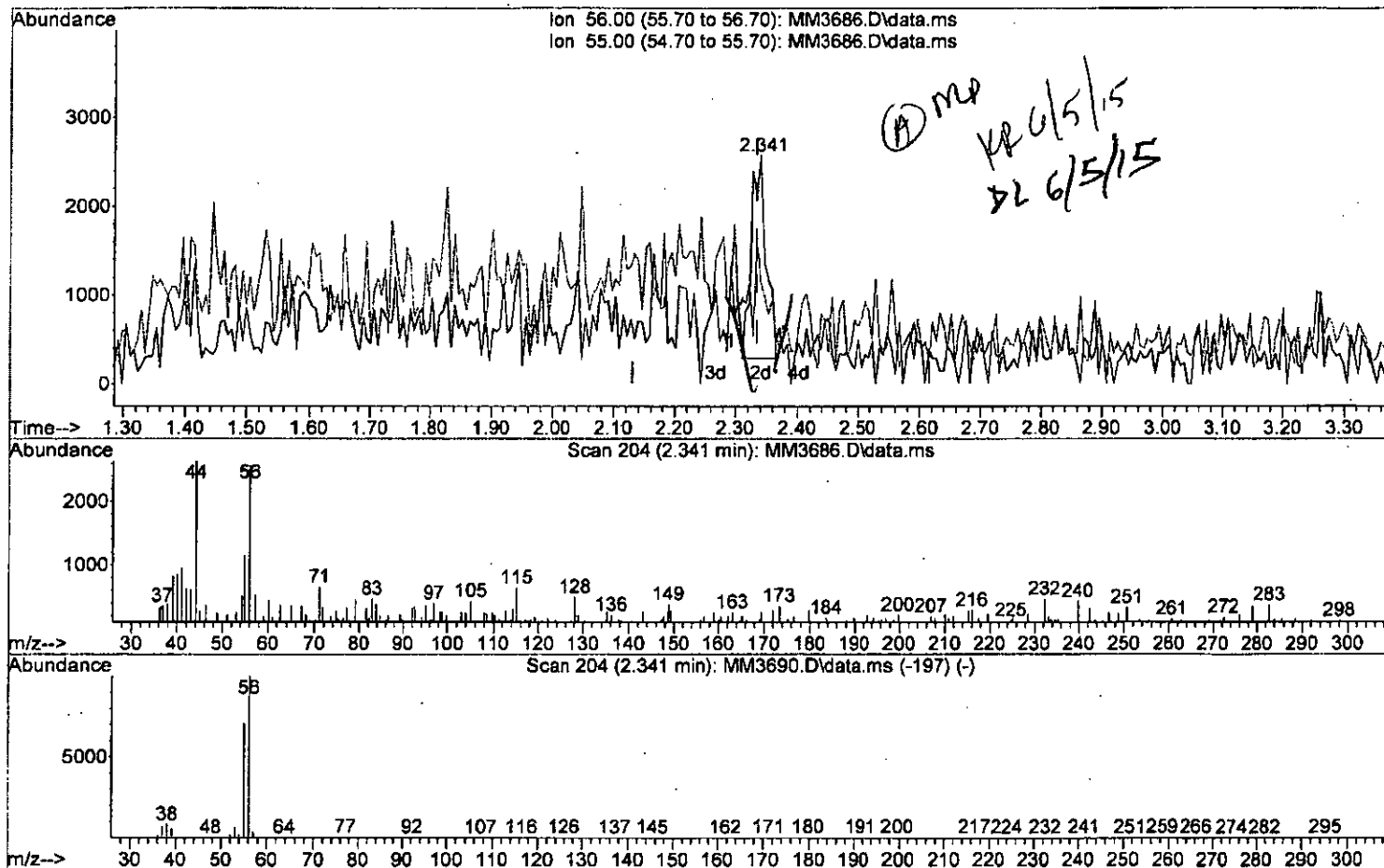
Ion	Exp%	Act%
56.00	100	100
55.00	71.60	78.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(12) Acrolein

2.341min (+0.006) 5.80 ppb m

response 3763

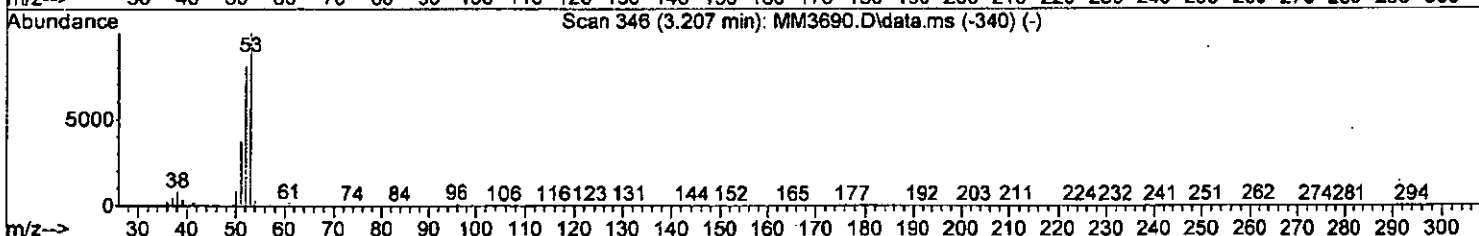
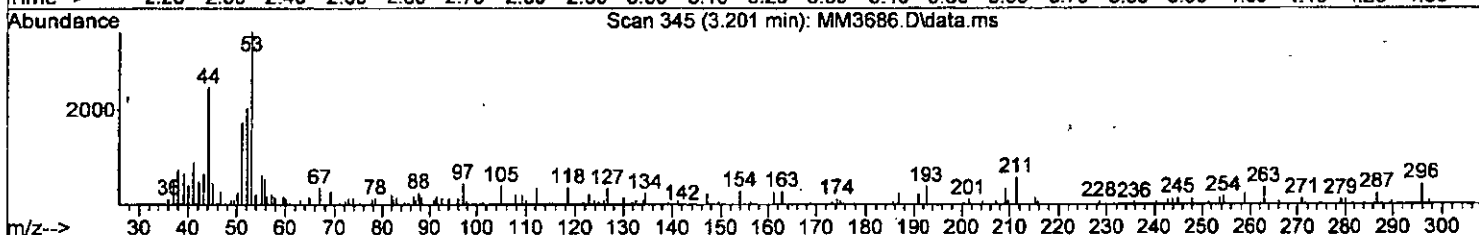
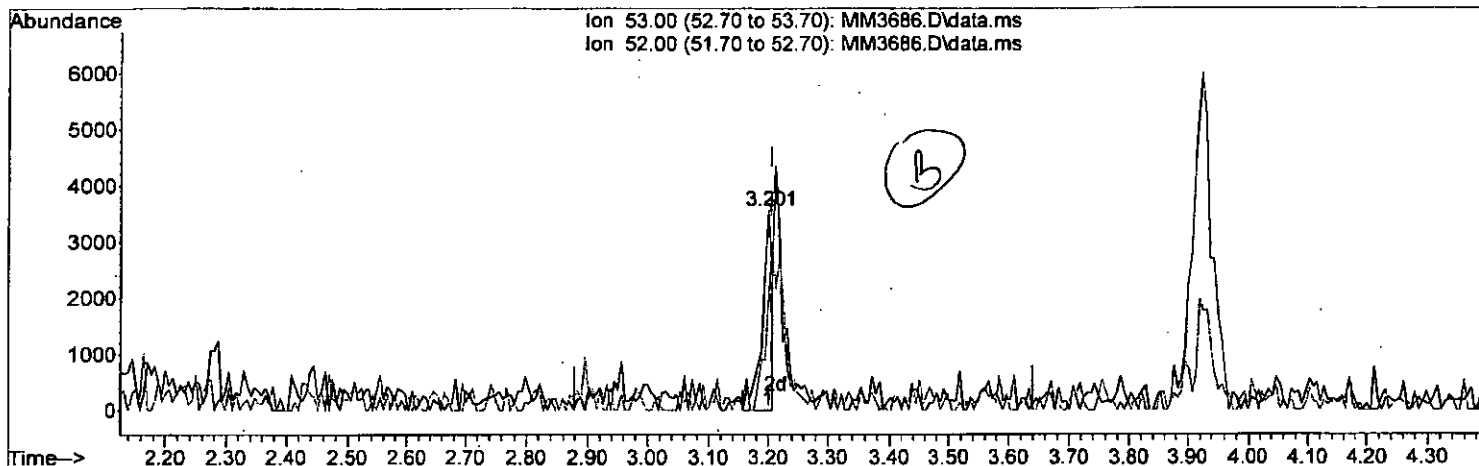
Ion	Exp%	Act%
56.00	100	100
55.00	71.60	44.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(24) Acrylonitrile

3.201min (-0.005) 2.88 ppb

response 4153

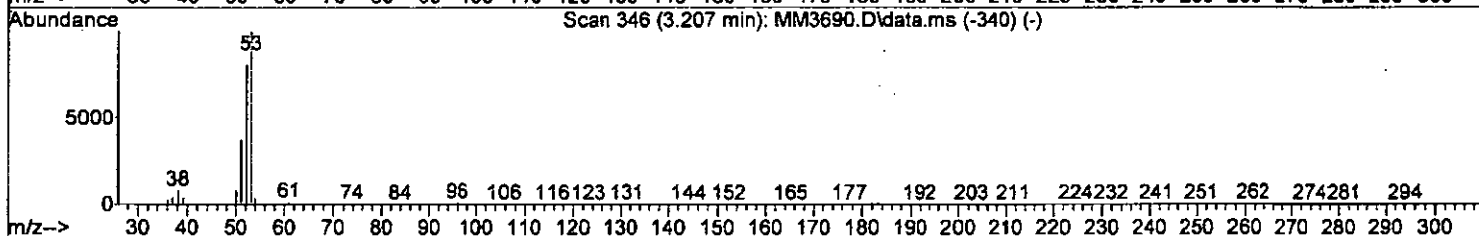
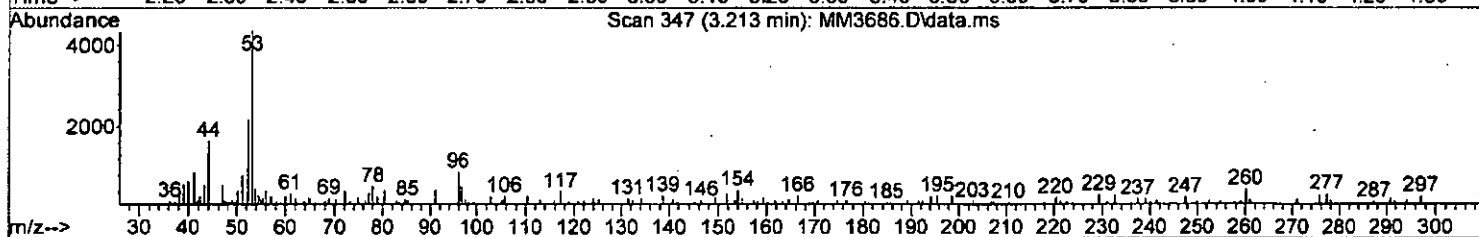
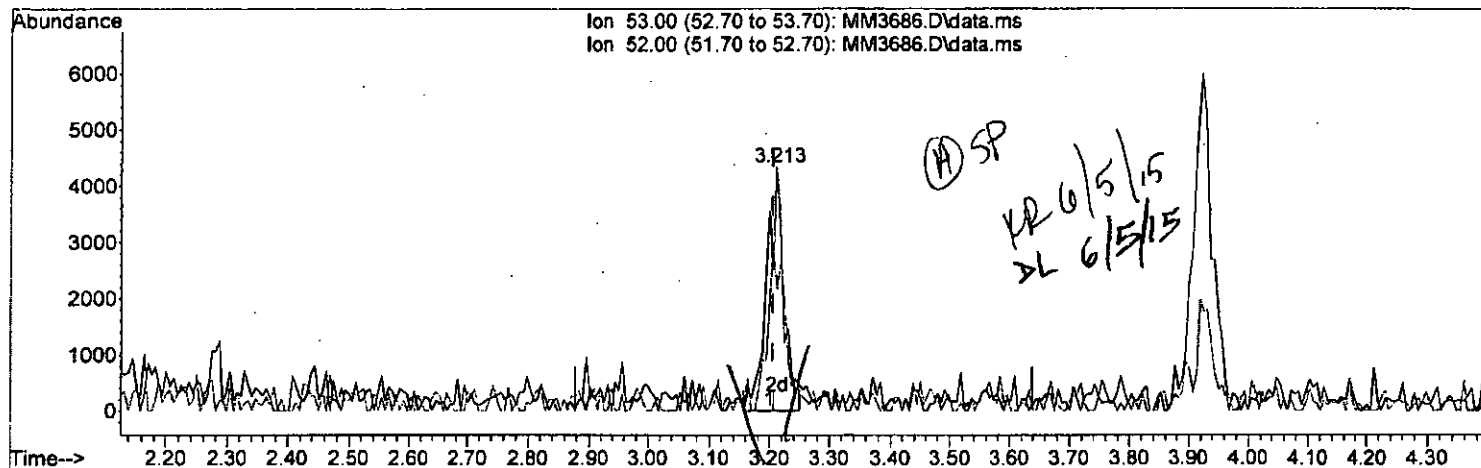
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	57.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(24) Acrylonitrile

3.213min (+0.007) 5.86 ppb m

response 8438

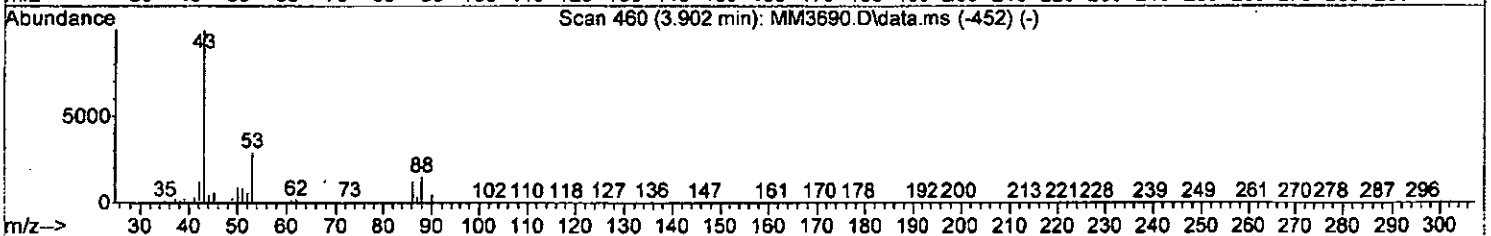
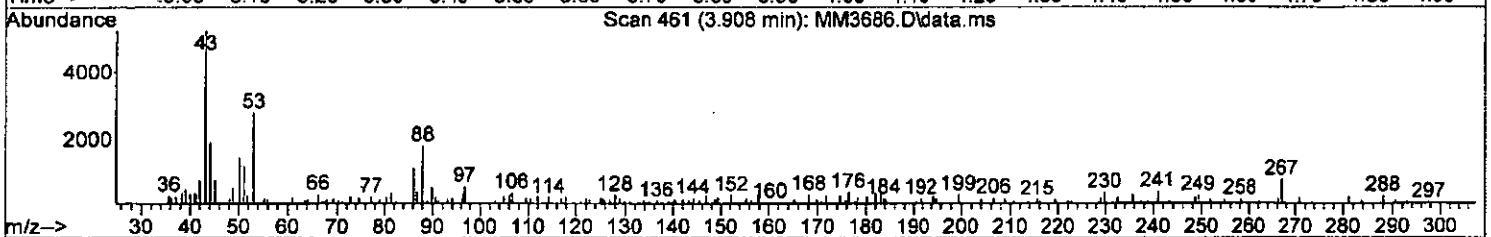
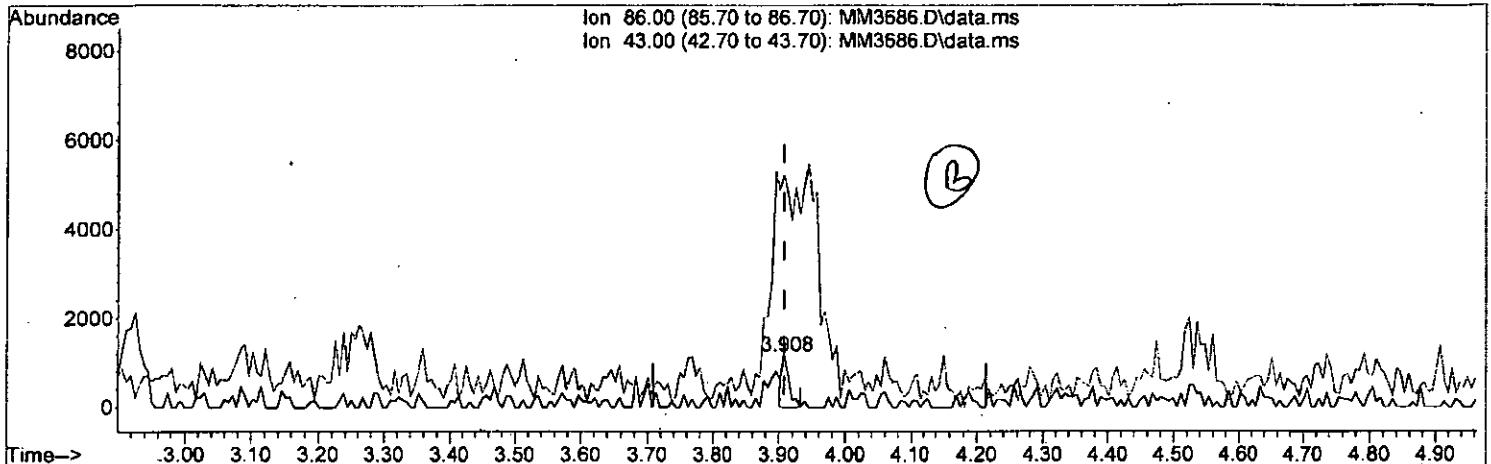
Ion	Exp%	Act%
53.00	100	100
52.00	80.60	49.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(29) Vinyl Acetate

3.908min (0.000) 0.56 ppb

response 824

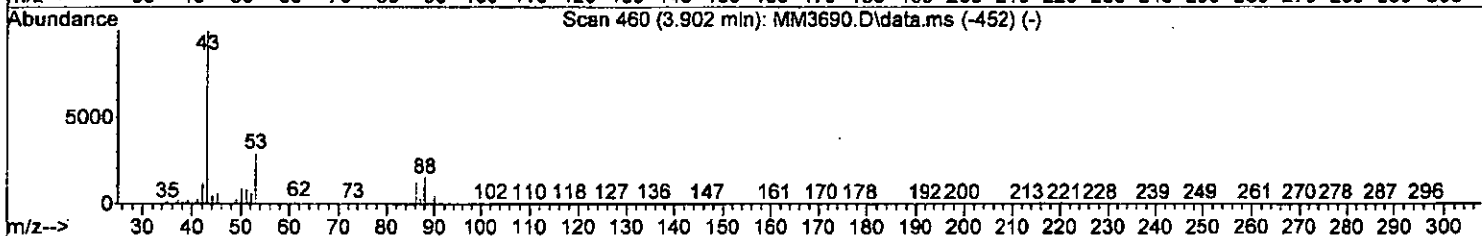
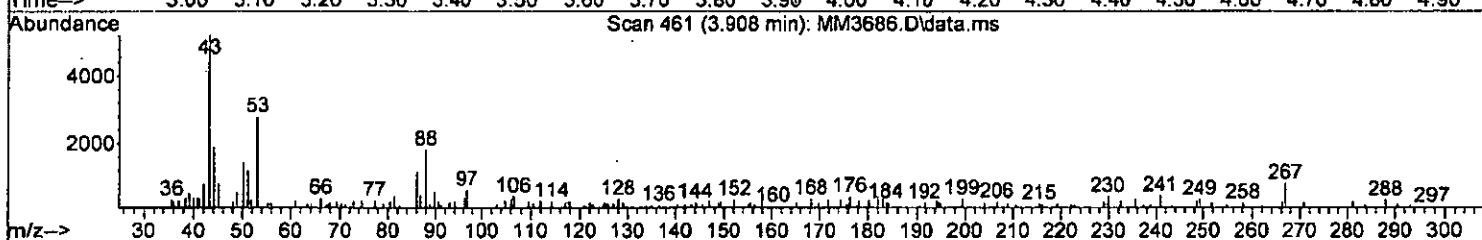
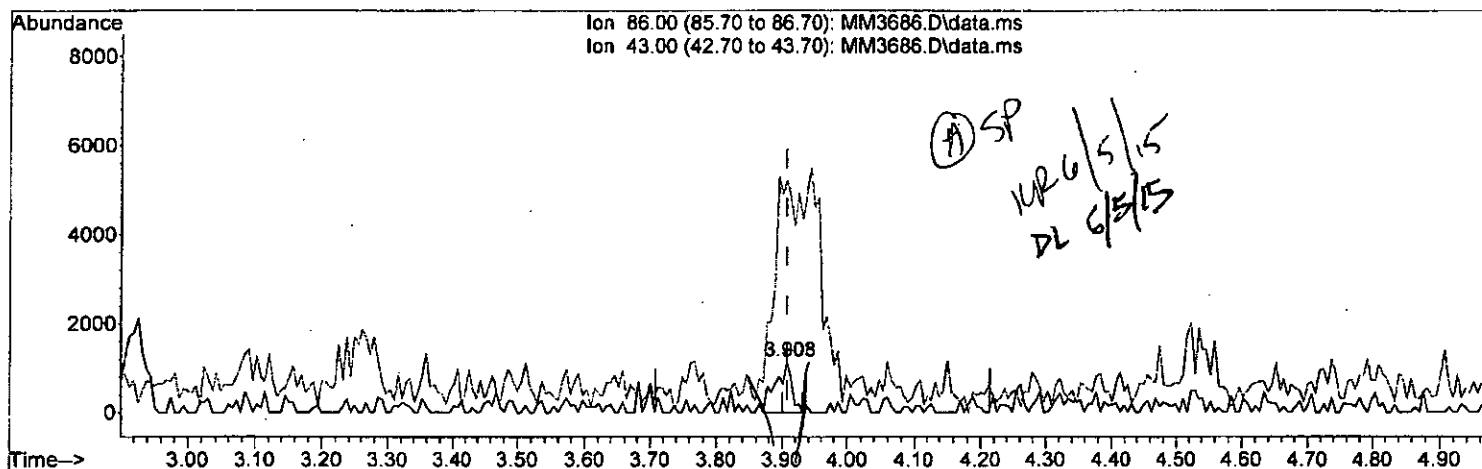
Ion	Exp%	Act%
86.00	100	100
43.00	799.60	454.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(29) Vinyl Acetate

3.908min (0.000) 1.34 ppb m

response 1958

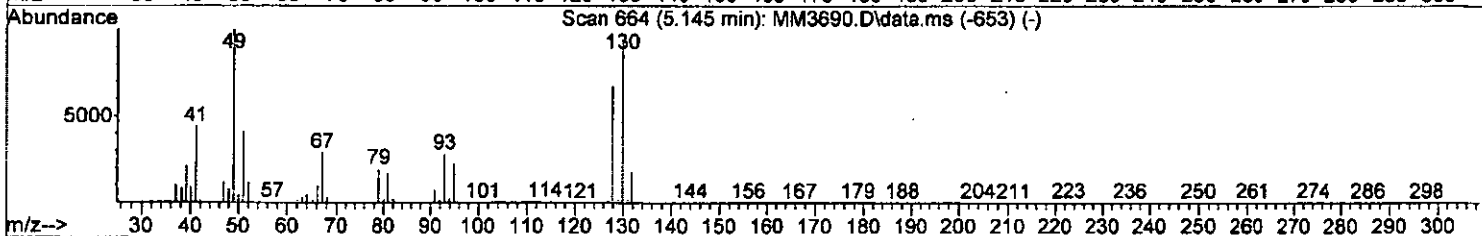
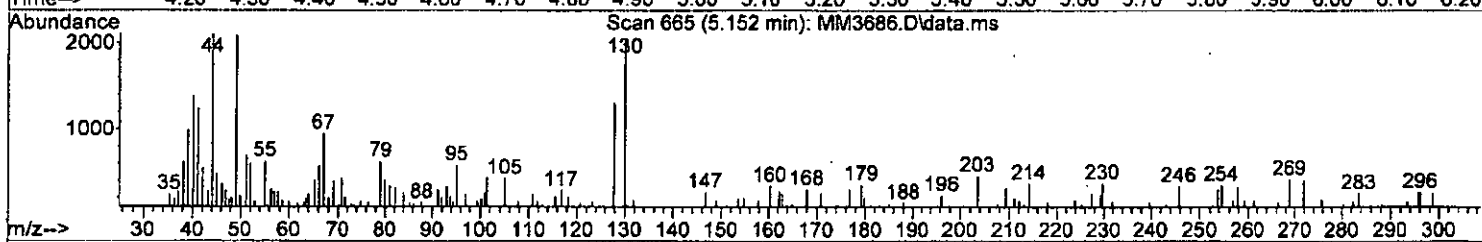
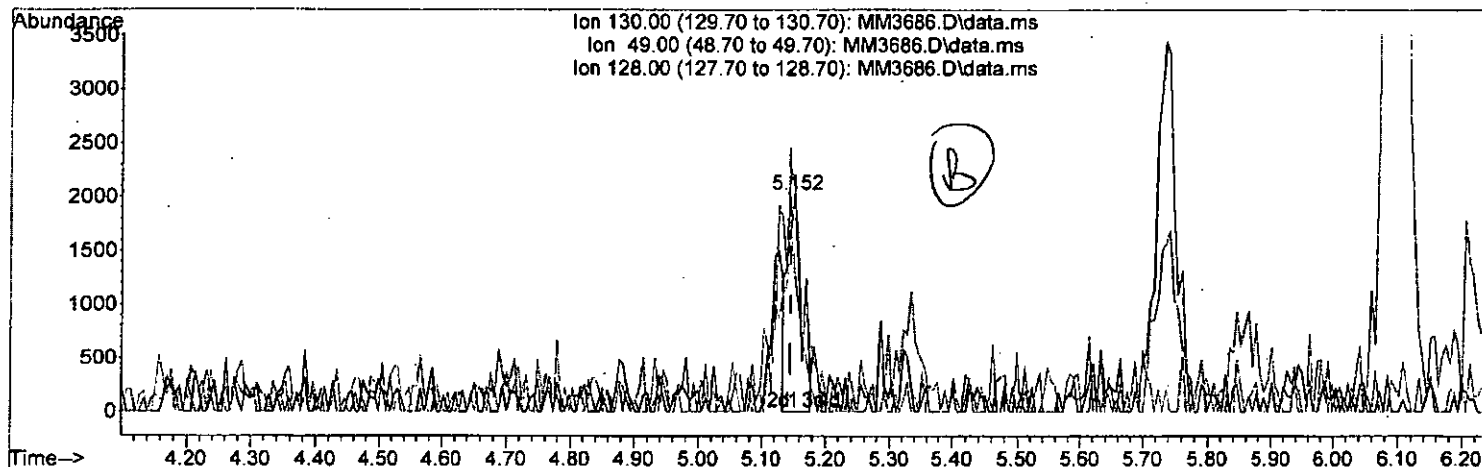
Ion	Exp%	Act%
86.00	100	100
43.00	799.60	454.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(37) Bromochloromethane

5.152min (+0.006) 0.71 ppb

response 3095

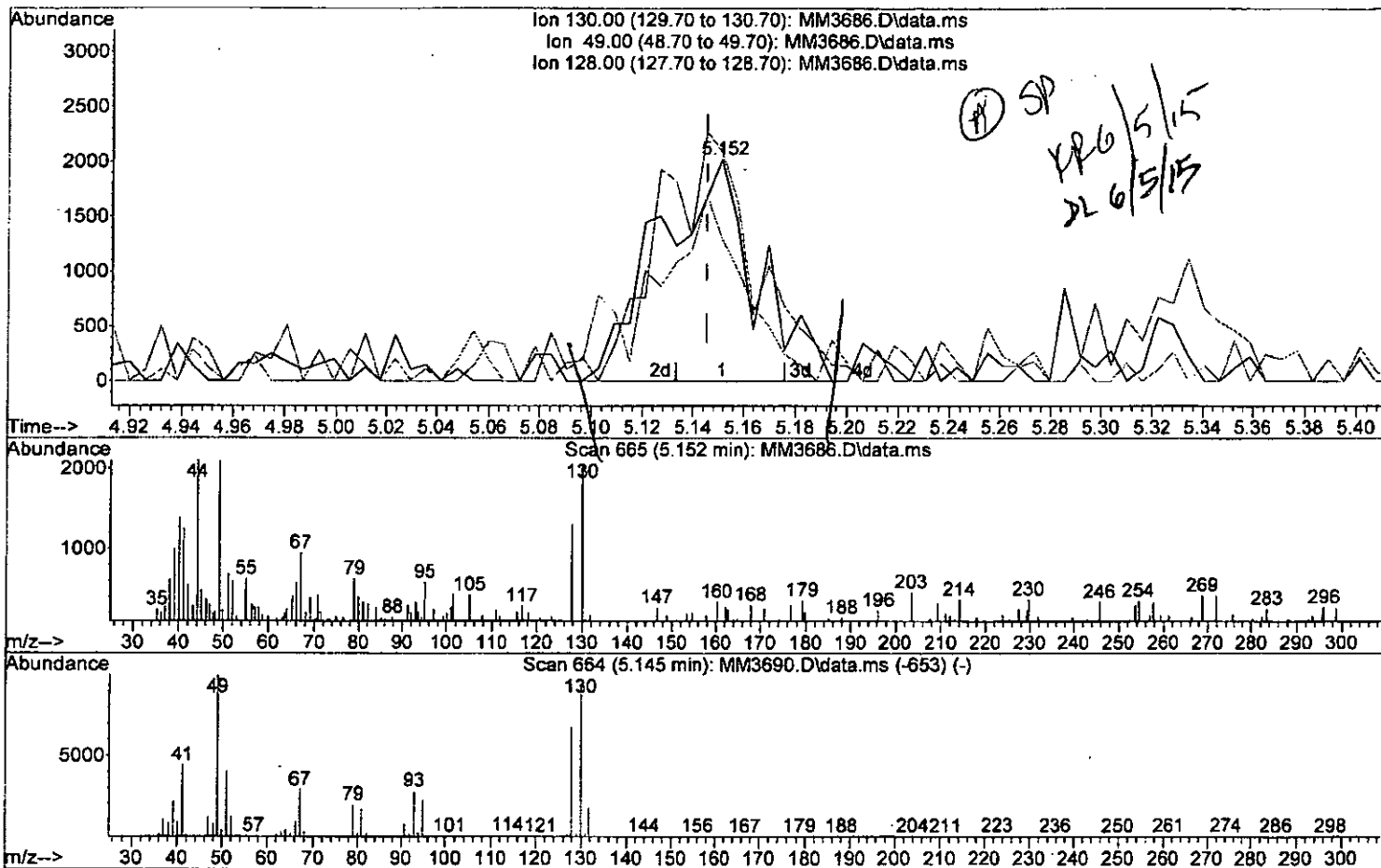
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	97.66
128.00	72.20	60.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(37) Bromochloromethane

5.152min (+0.006) 1.24 ppb m

response 5385

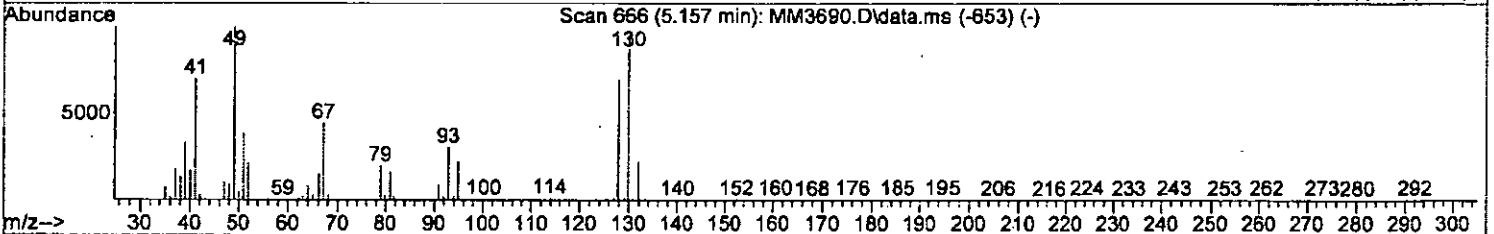
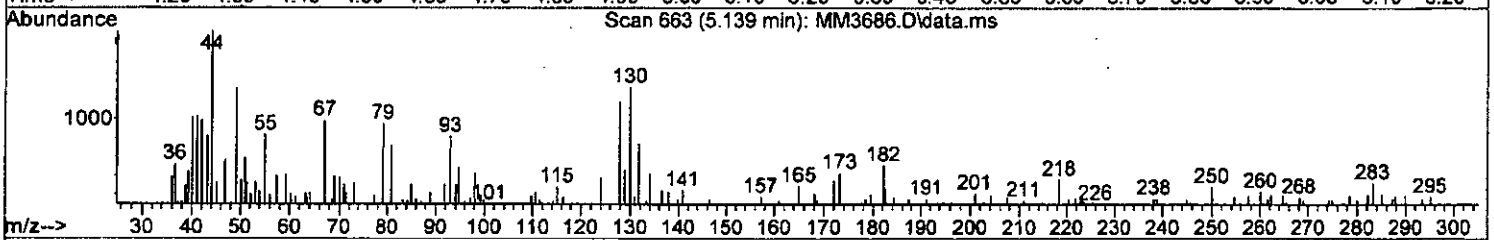
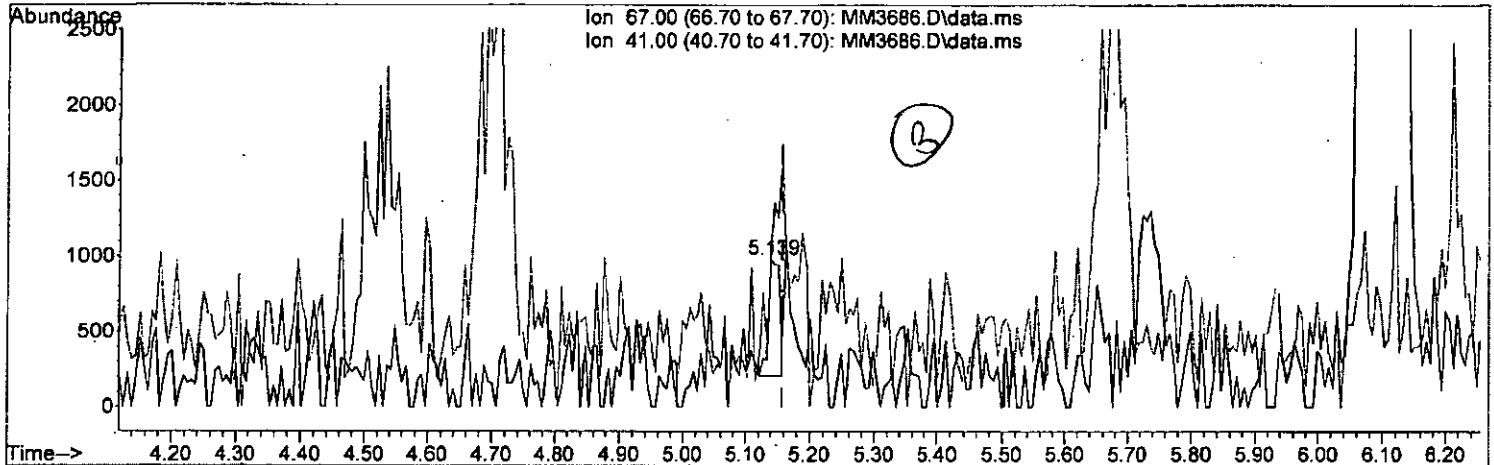
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	103.26
128.00	72.20	64.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(38) Methacrylonitrile

5.139min (-0.018) 0.51 ppb

response 984

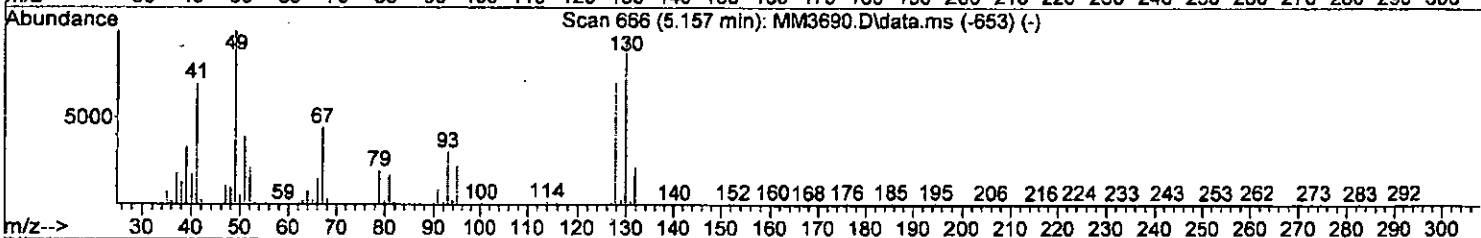
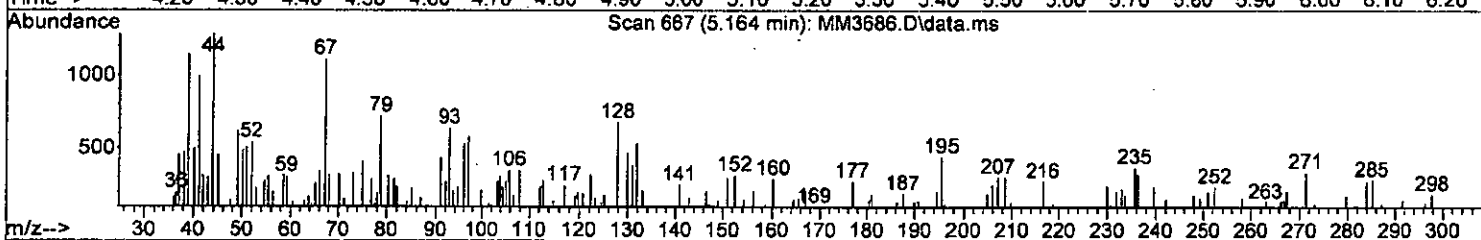
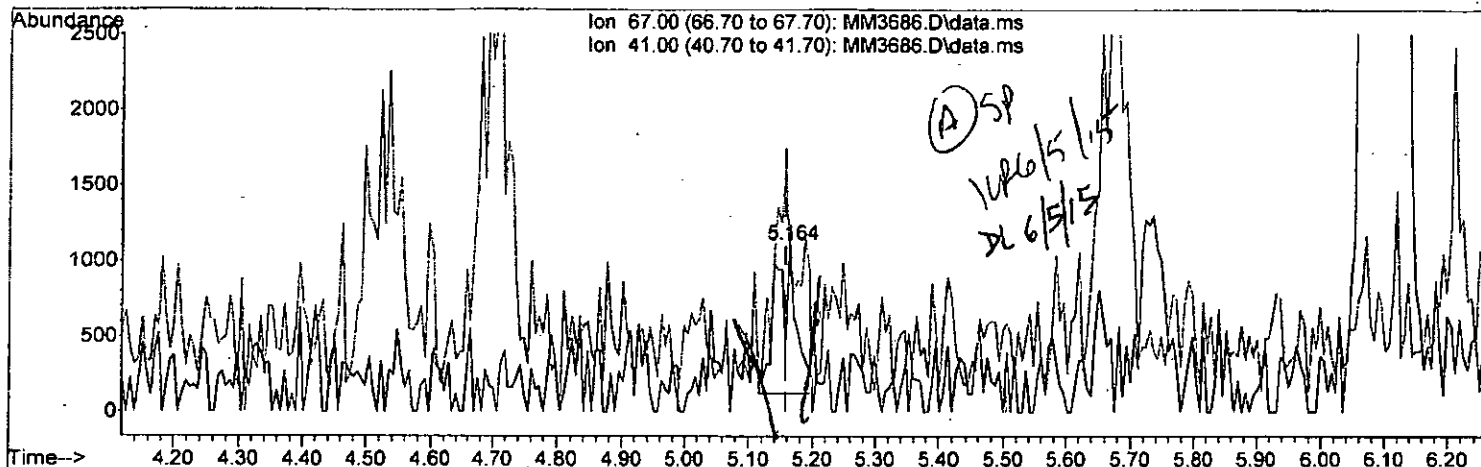
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	104.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(38) Methacrylonitrile

5.164min (+0.006) 1.10 ppb m

response 2127

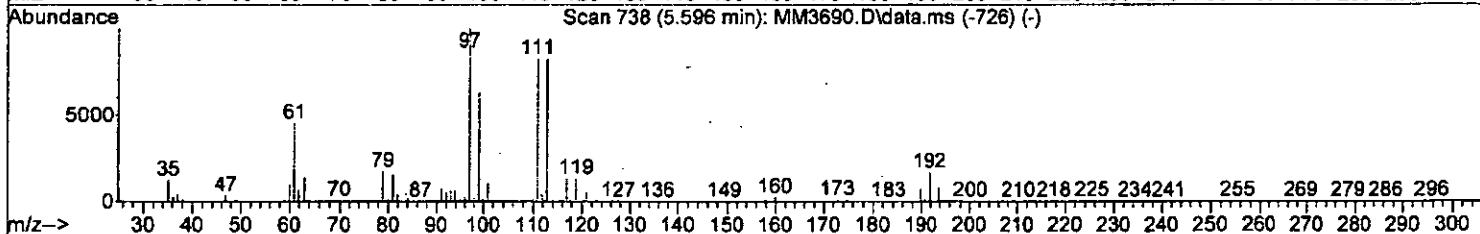
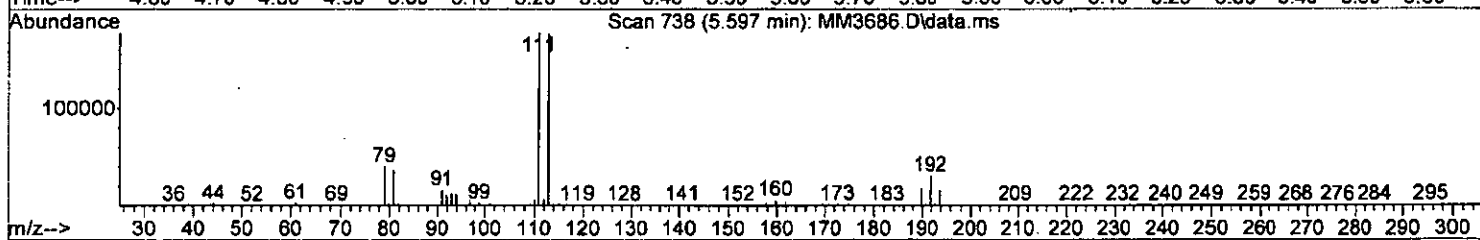
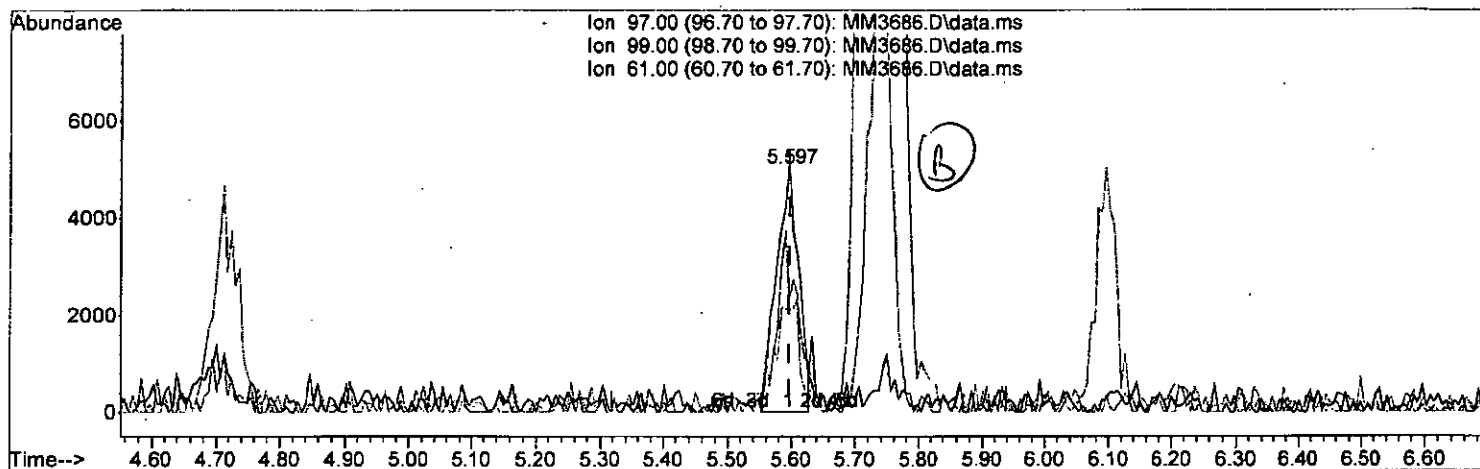
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	89.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.597min (-0.000) 0.98 ppb

response 12167

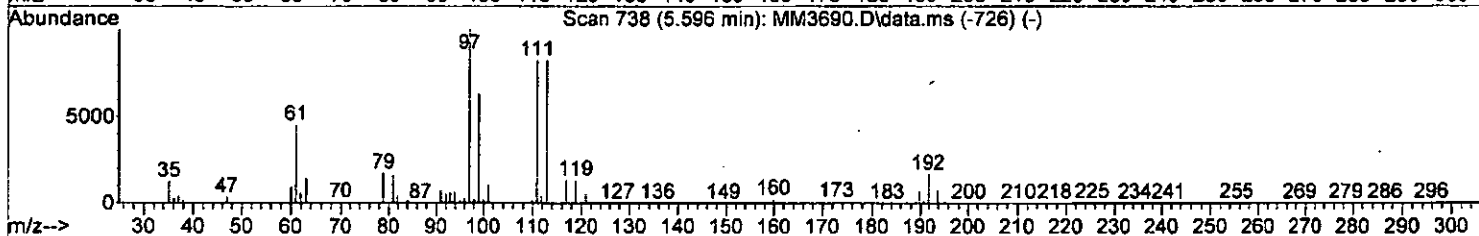
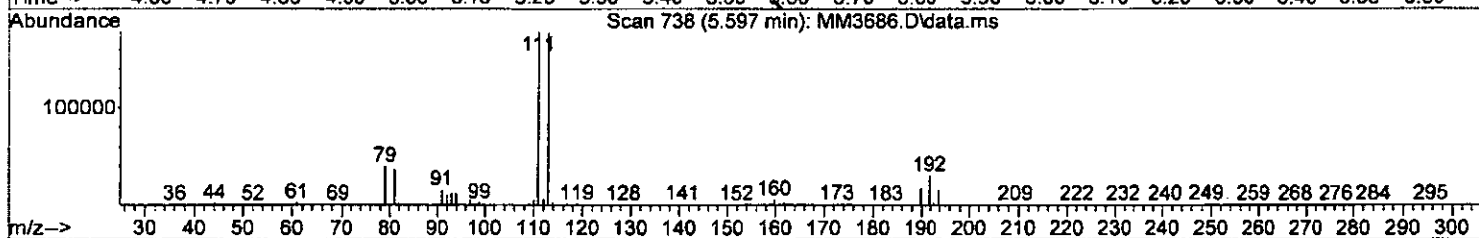
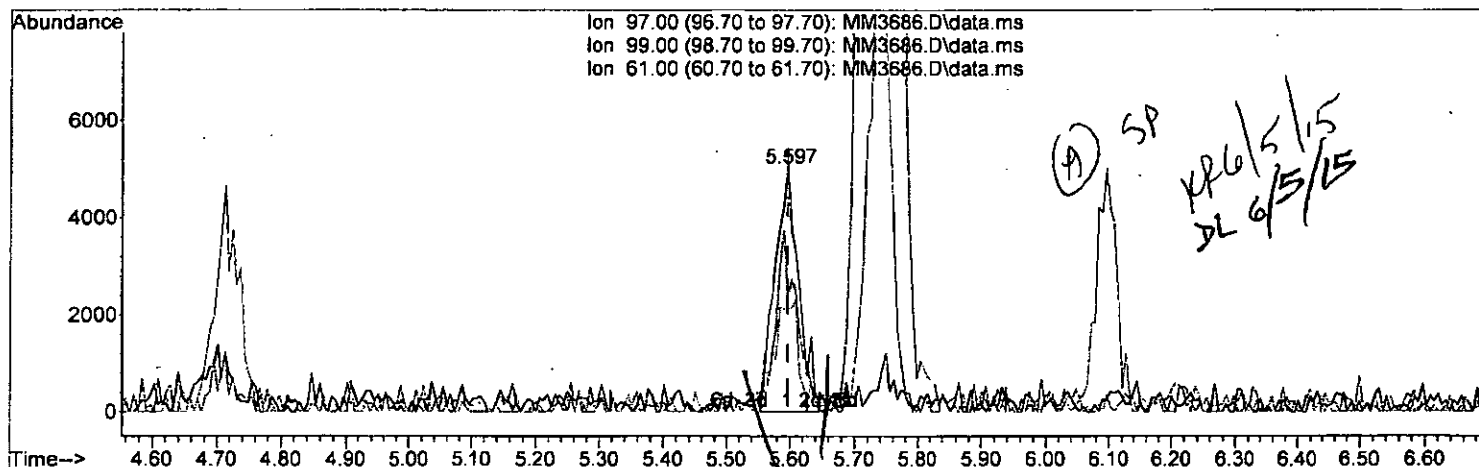
Ion	Exp%	Act%
97.00	100	100
99.00	63.80	46.15
61.00	45.30	42.20
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(41) 1,1,1-Trichloroethane (P)

5.597min (-0.000) 1.04 ppb m

response 12945

Ion	Exp%	Act%

97.00	100	100

99.00	63.80	46.15

61.00	45.30	42.20

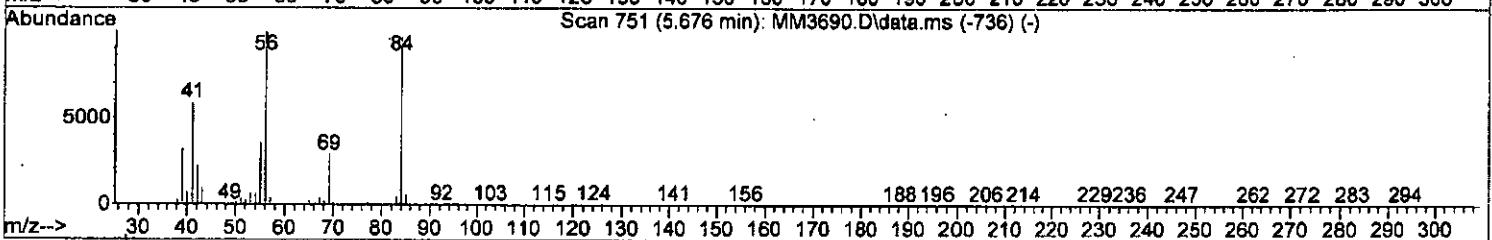
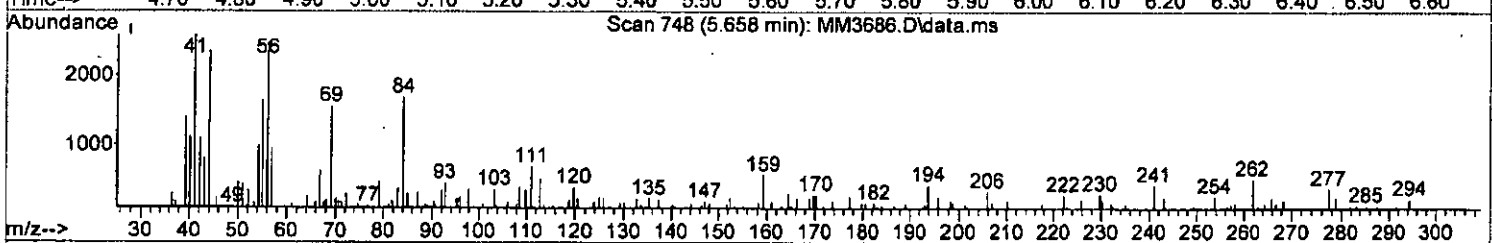
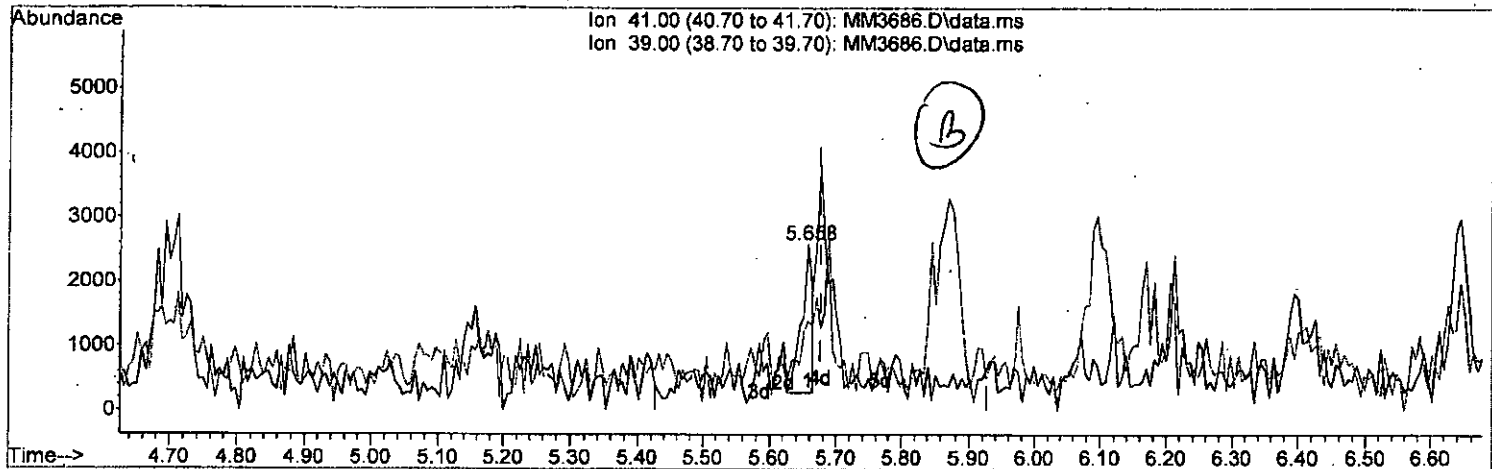
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(44) Cyclohexane (P)

5.658min (-0.018) 0.37 ppb

response 2518

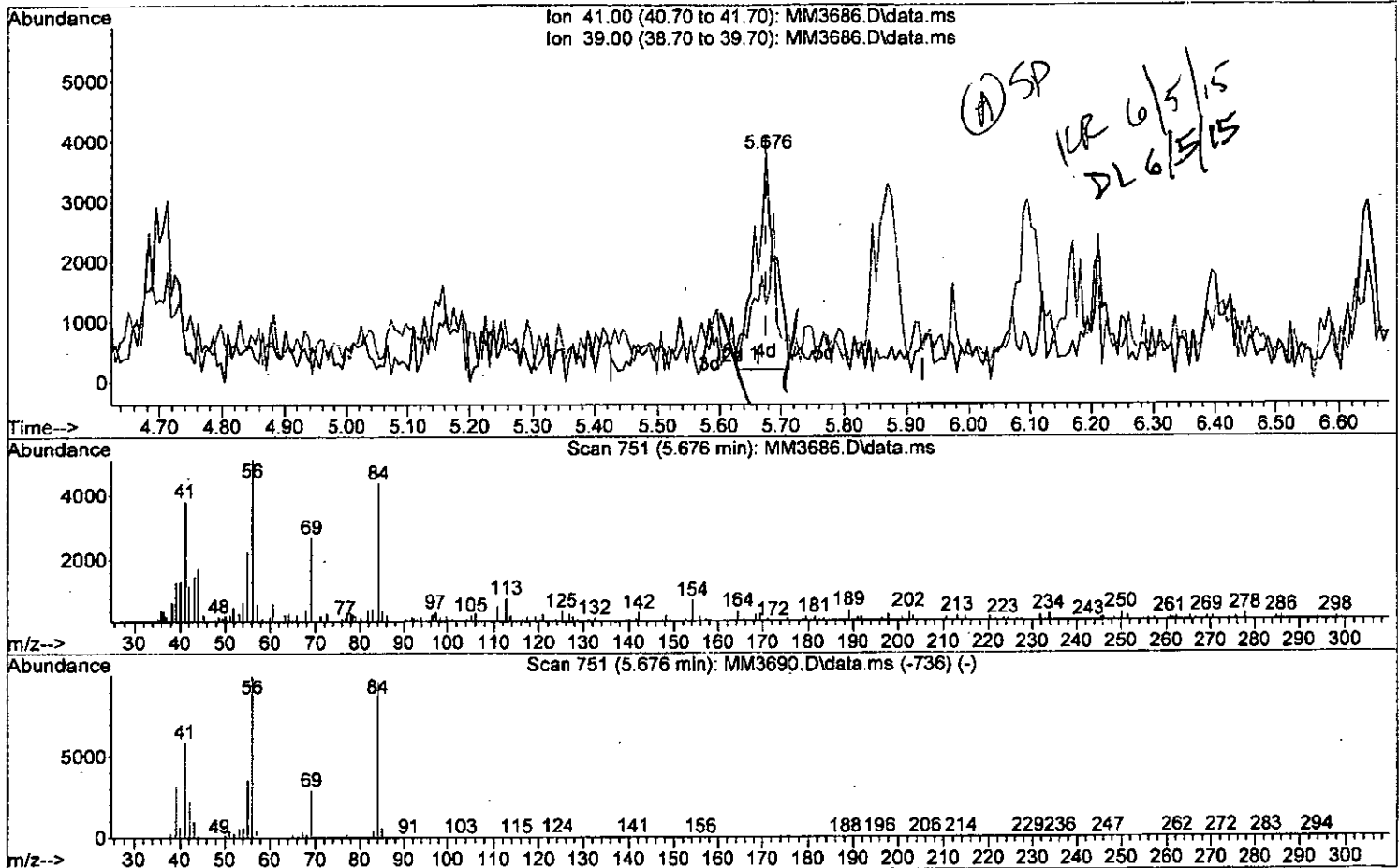
Ion	Exp%	Act%
41.00	100	100
39.00	54.70	54.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(44) Cyclohexane (P)

5.676min (0.000) 1.18 ppb m

response 7950

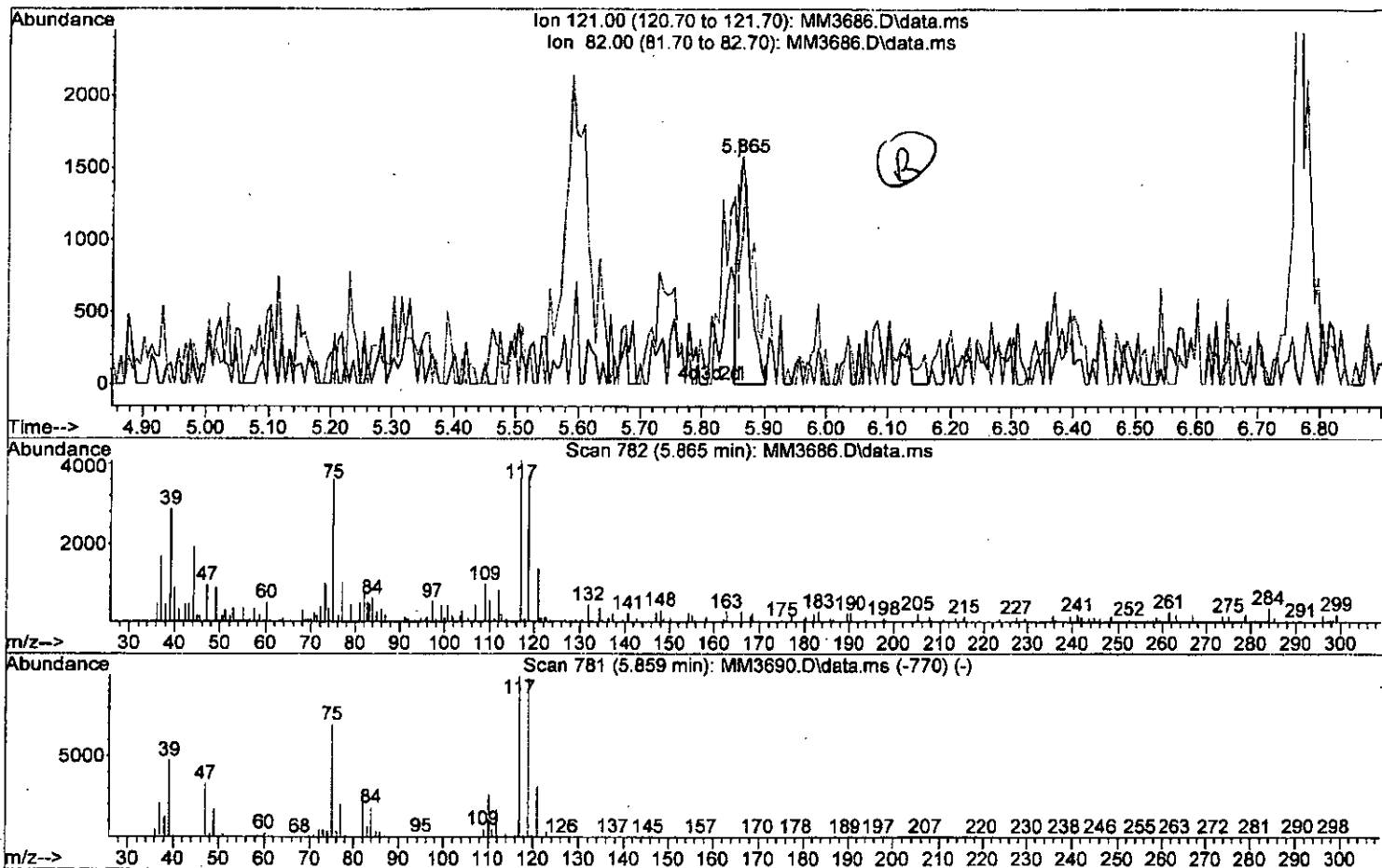
Ion	Exp%	Act%
41.00	100	100
39.00	54.70	33.30#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(46) Carbontetrachloride (P)

5.865min (+0.006) 0.63 ppb

response 2020

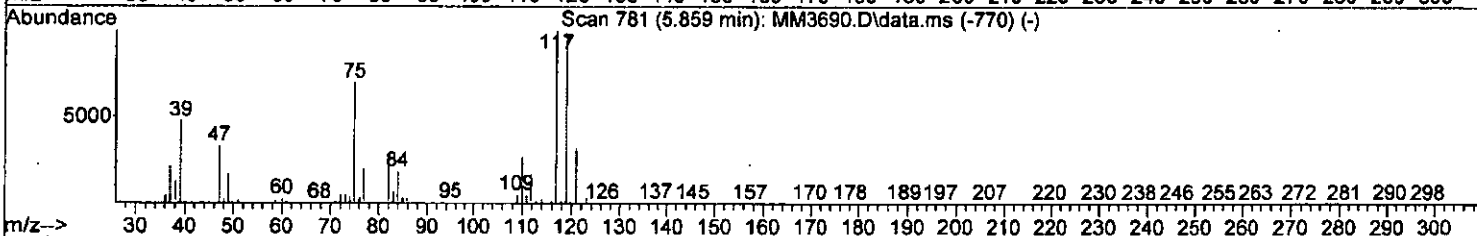
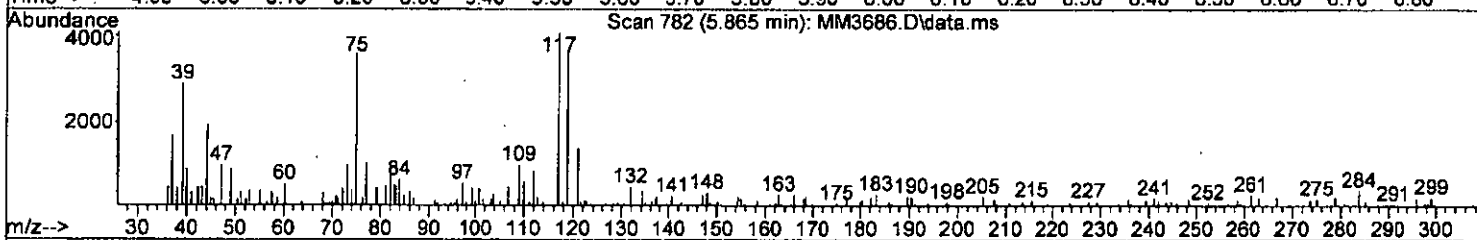
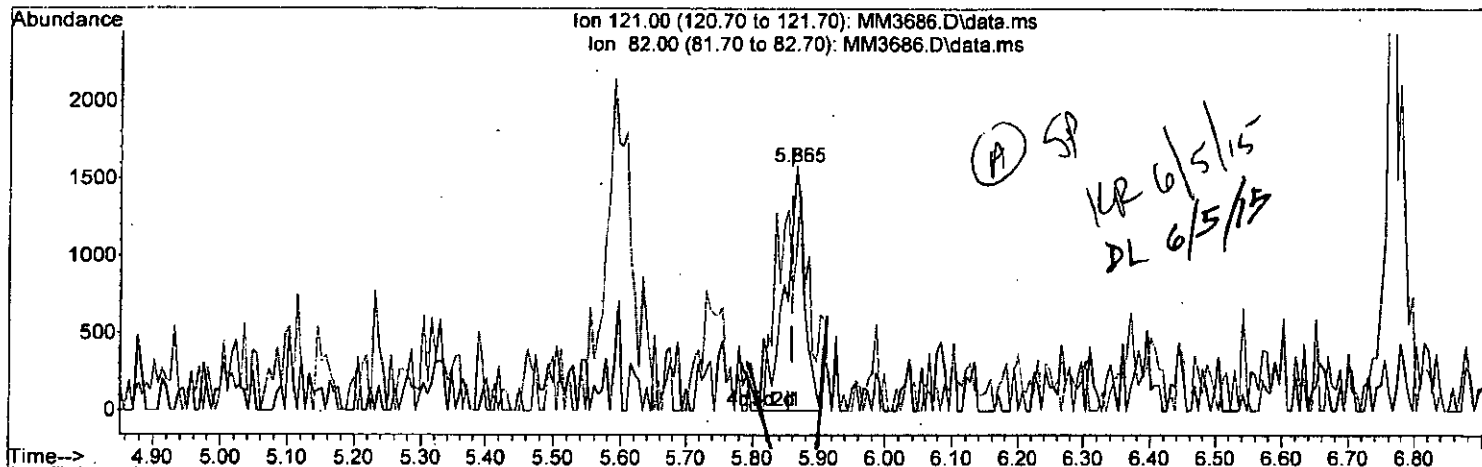
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	64.87#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(46) Carbontetrachloride (P)

5.865min (+0.006) 1.02 ppb m

response 3282

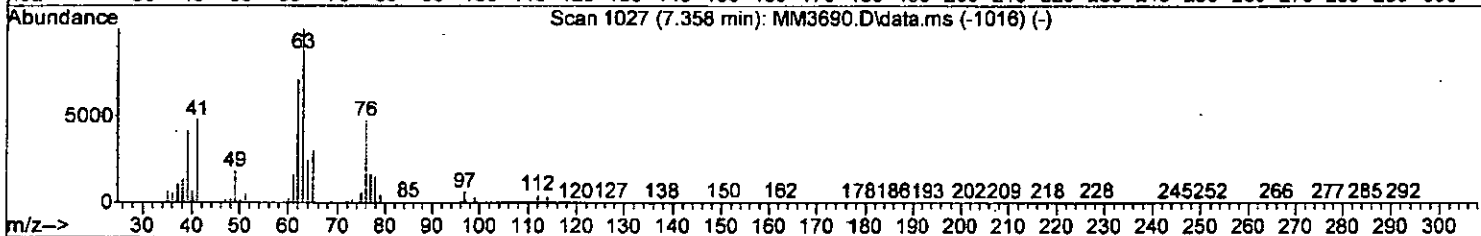
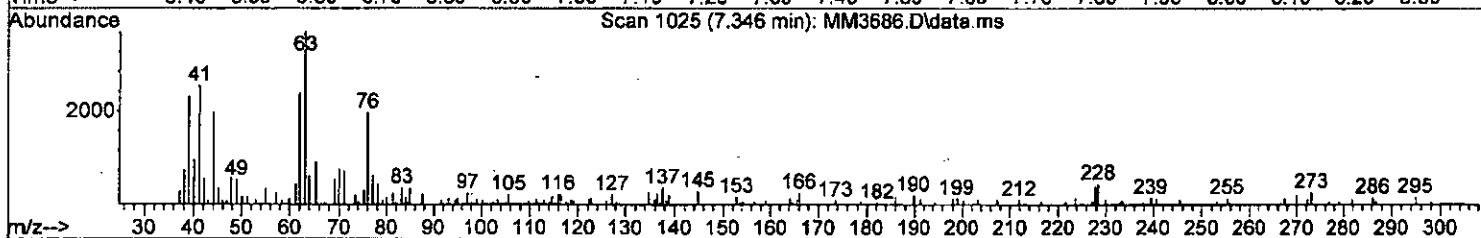
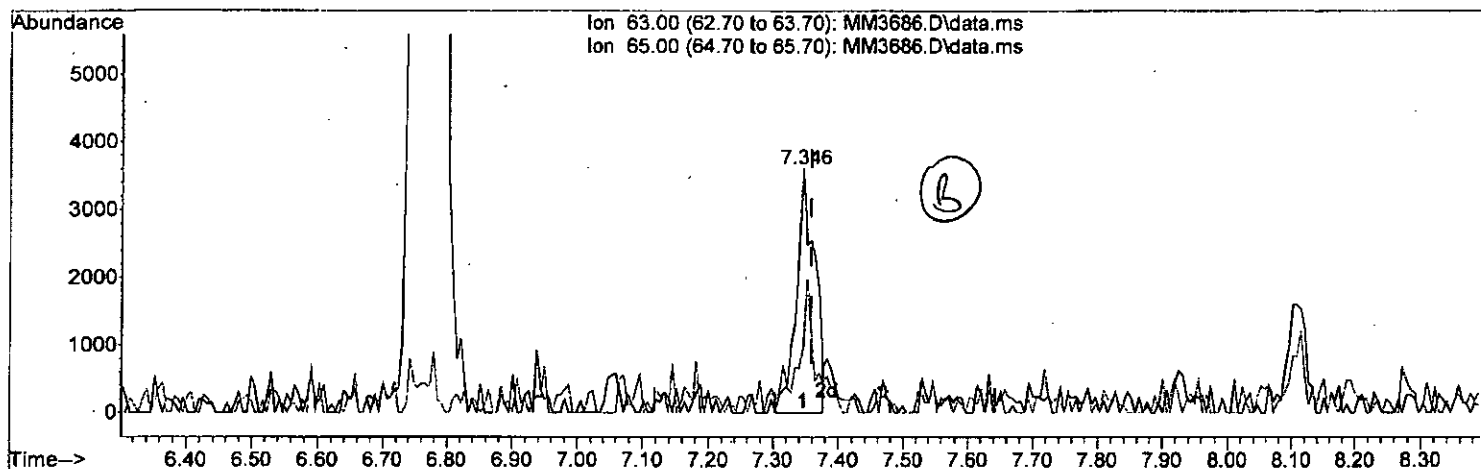
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	72.81#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(56) 1,2-Dichloropropane (P)

7.346min (-0.012) 0.99 ppb

response 6957

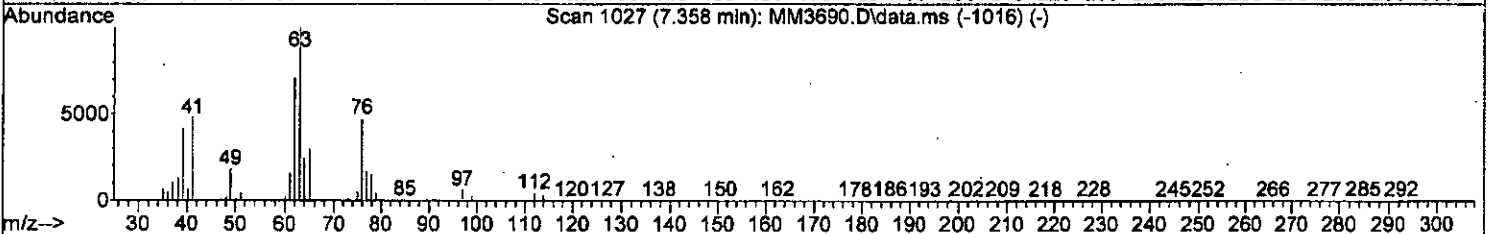
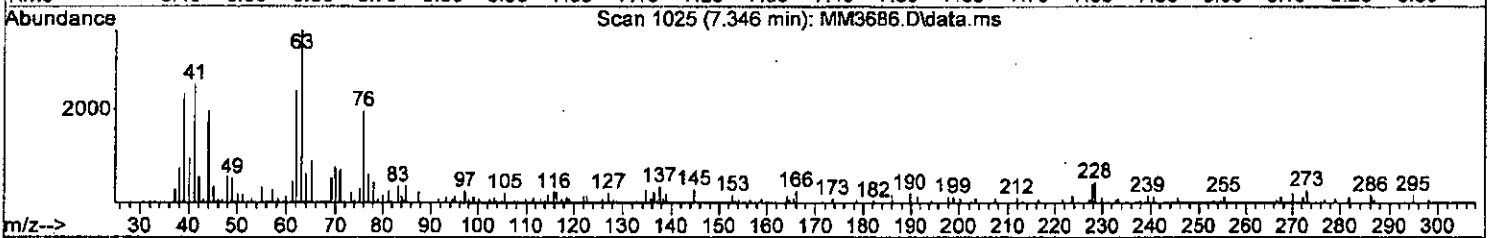
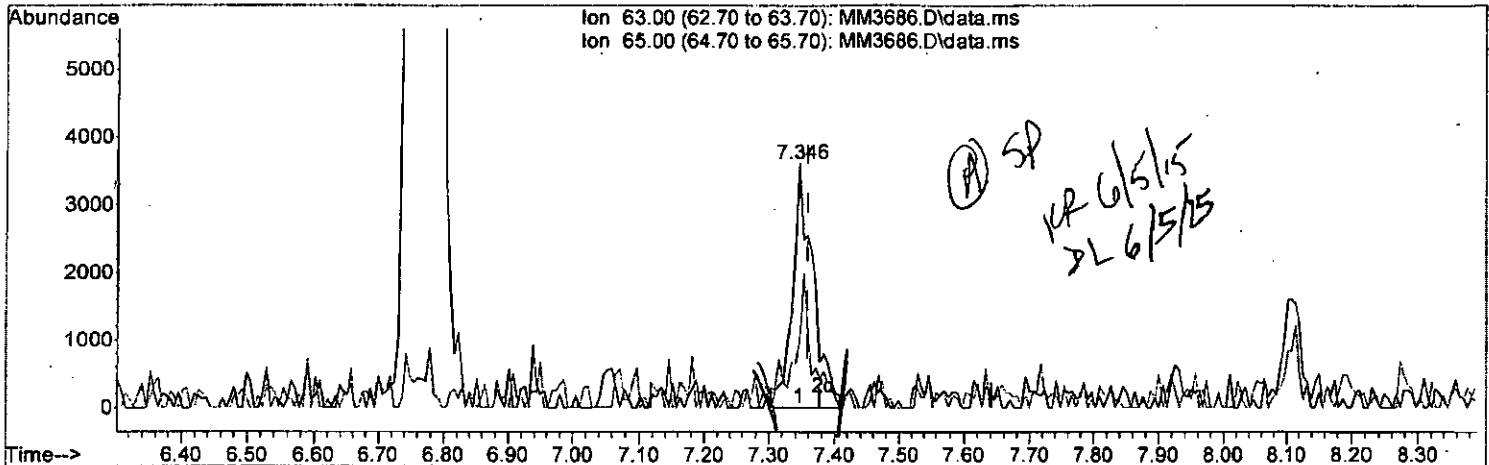
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	26.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(56) 1,2-Dichloropropane (P)

7.346min (-0.012) 1.11 ppb m

response 7794

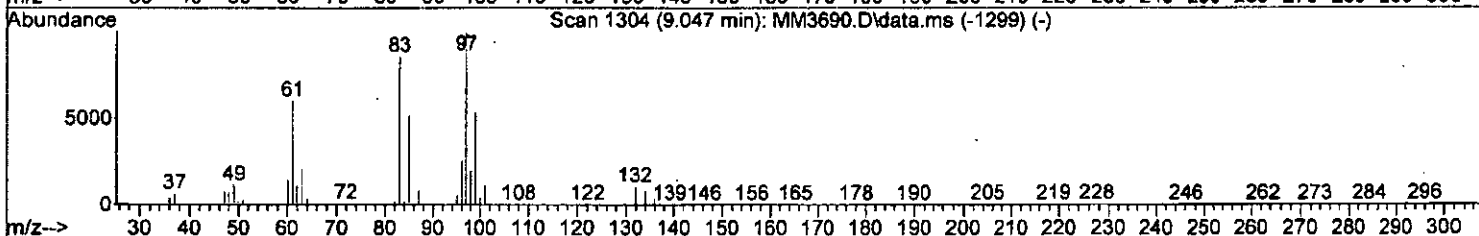
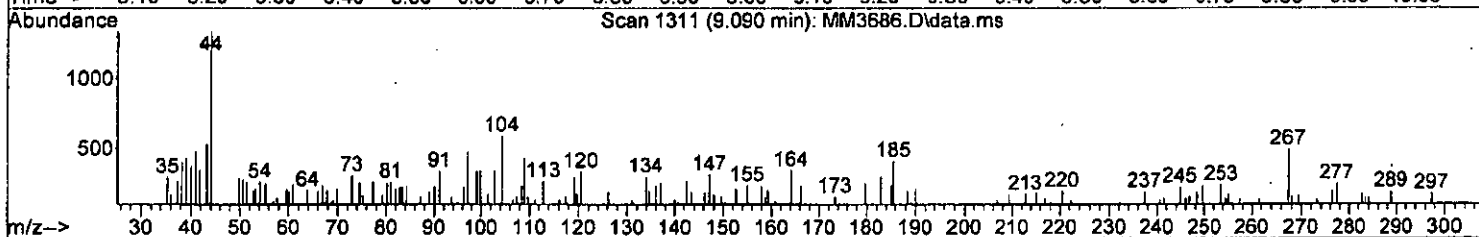
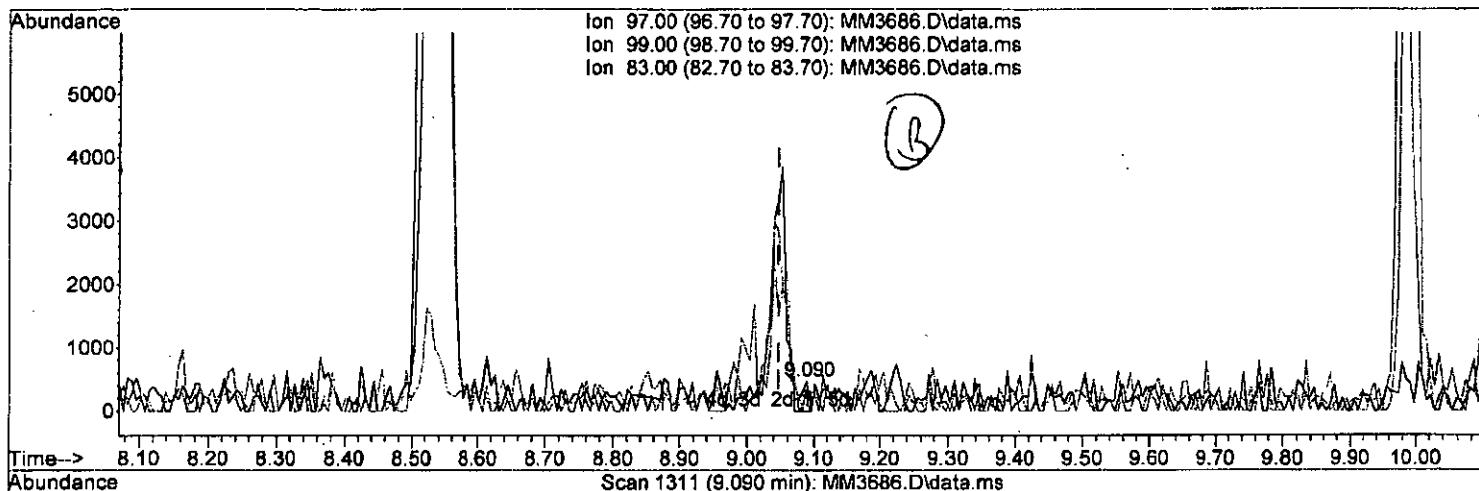
Ion	Exp%	Act%
63.00	100	100
65.00	30.60	26.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(69) 1,1,2-Trichloroethane (P)

9.090min (+0.043) 0.07 ppb

response 356

Ion	Exp%	Act%
97.00	100	100
99.00	59.90	71.25
83.00	85.40	93.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3686.D

Acq On : 4 Jun 2015 1:10 pm

Operator : K.Ruest

Sample : 1.0ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 8 Sample Multiplier: 1

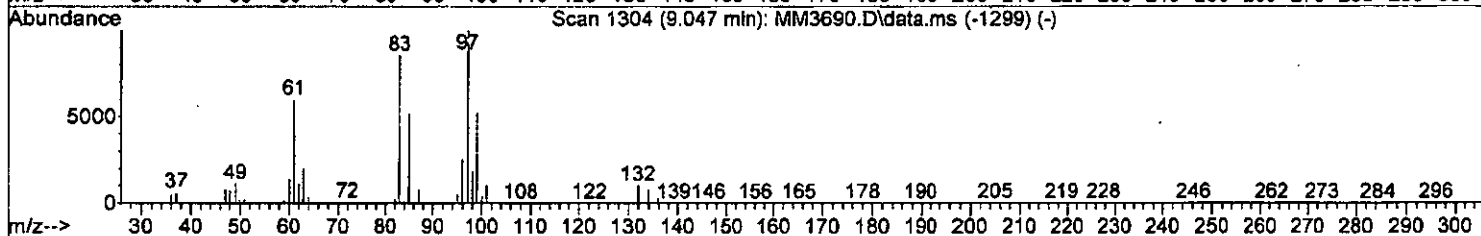
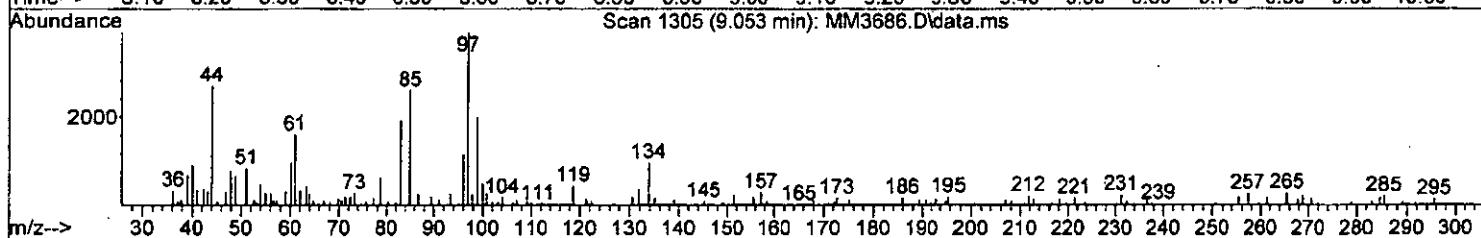
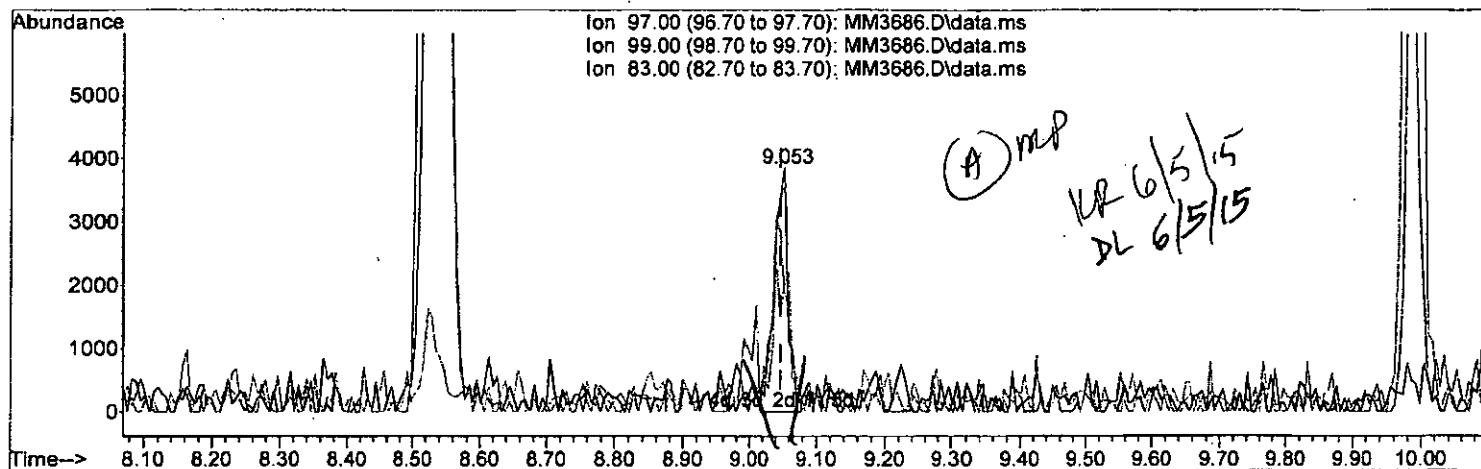
Quant Time: Jun 05 08:47:37 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration



TIC: MM3686.D\data.ms

(89) 1,1,2-Trichloroethane (P)

9.053min (+0.006) 1.03 ppb m

response 5608

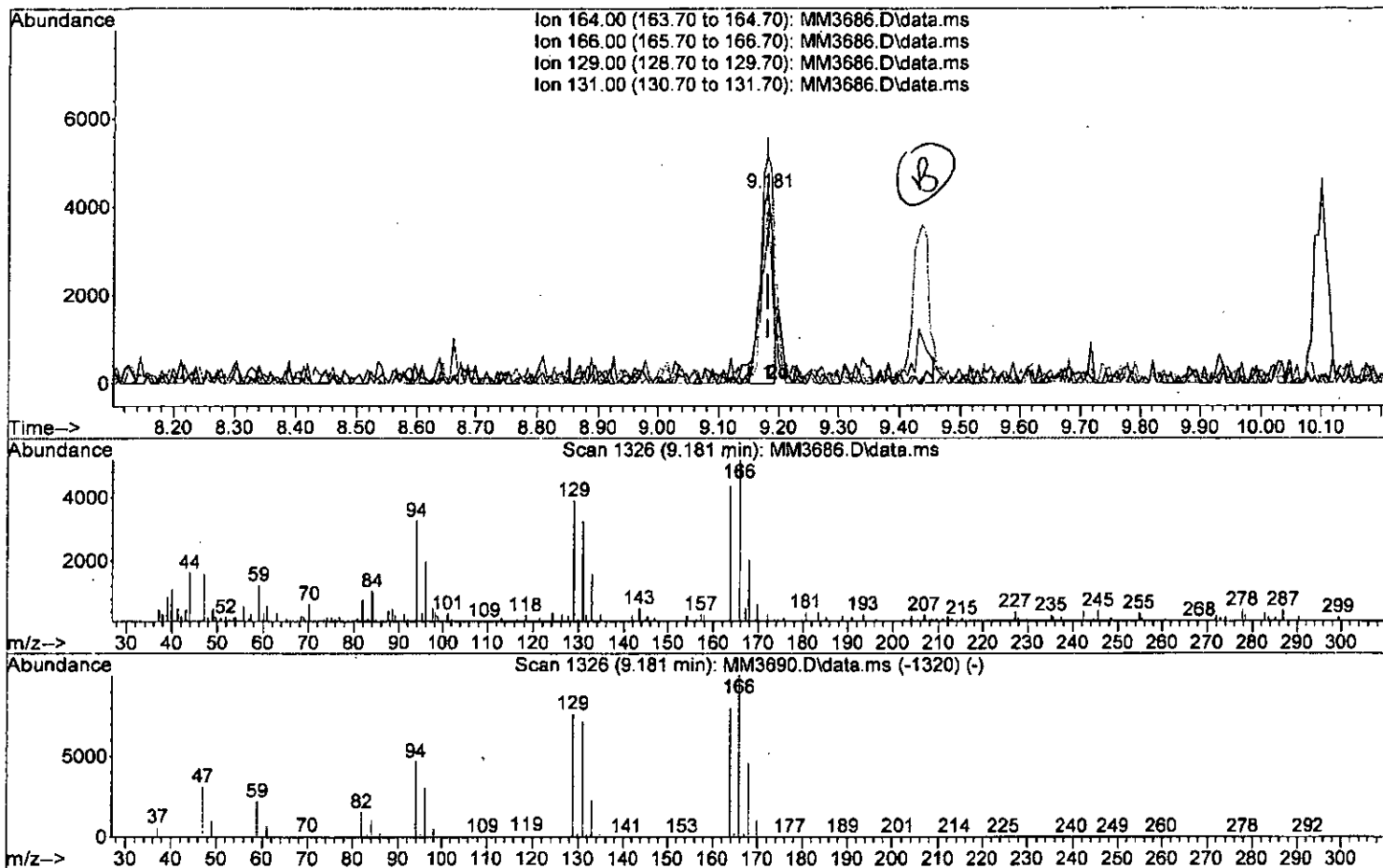
Ion	Exp%	Act%
97.00	100	100
99.00	59.90	51.65
83.00	85.40	50.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(72) Tetrachloroethene (P)

9.181min (-0.000) 0.93 ppb

response 5969

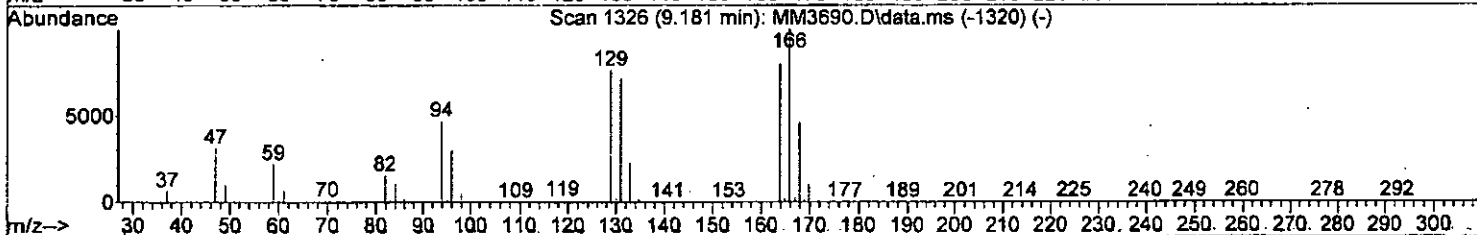
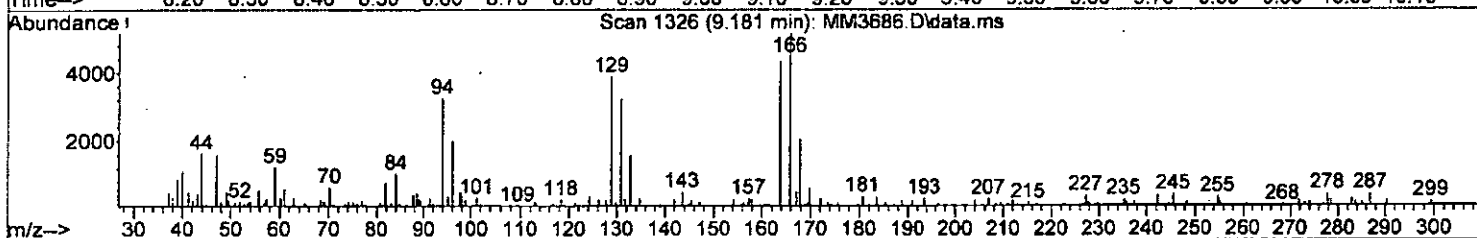
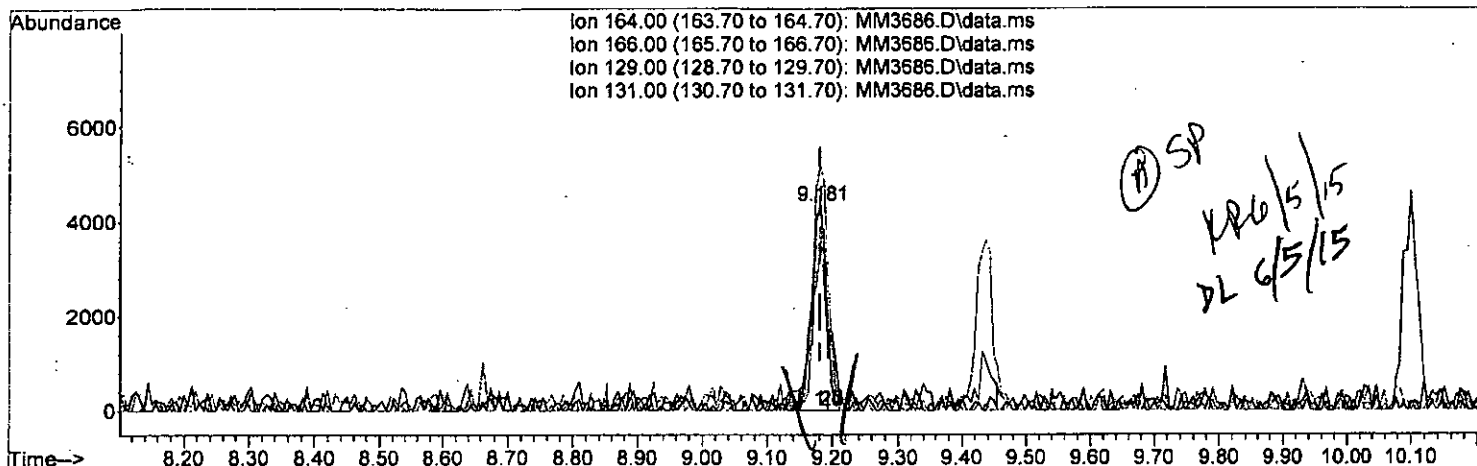
Ion	Exp%	Act%
164.00	100	100
166.00	125.00	118.95
129.00	95.20	89.79
131.00	89.40	81.53

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(72) Tetrachloroethene (P)

9.181min (-0.000) 1.11 ppb m

response 7062

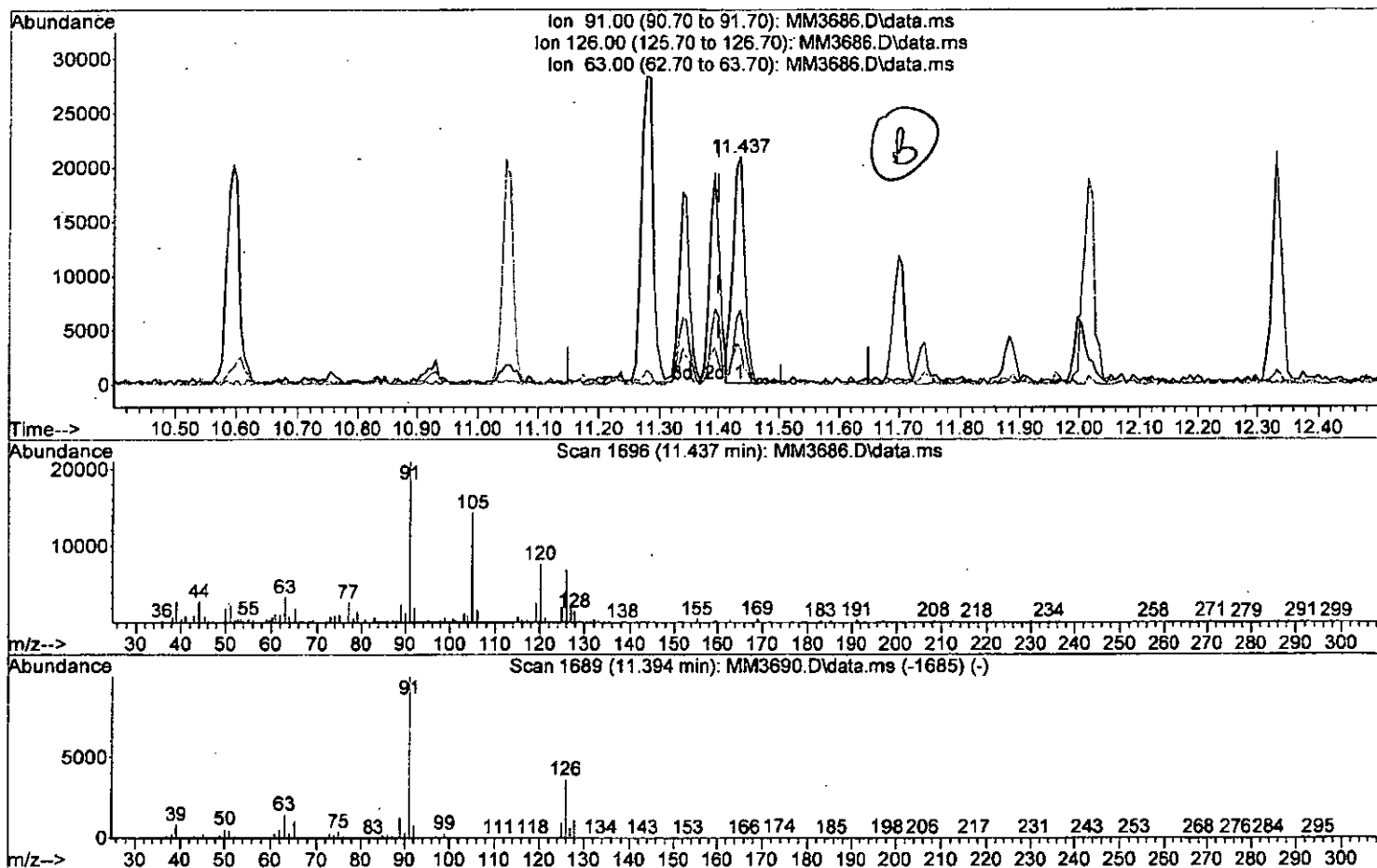
Ion	Exp%	Act%
164.00	100	100
166.00	125.00	118.95
129.00	95.20	88.79
131.00	89.40	74.73

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(97) 3-Chlorotoluene

11.437min (+0.037) 1.11 ppb

response 28099

Ion	Exp%	Act%
91.00	100	100
126.00	36.30	32.53
63.00	14.60	15.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3686.D

Acq On : 4 Jun 2015 1:10 pm

Operator : K.Ruest

Sample : 1.0ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 8 Sample Multiplier: 1

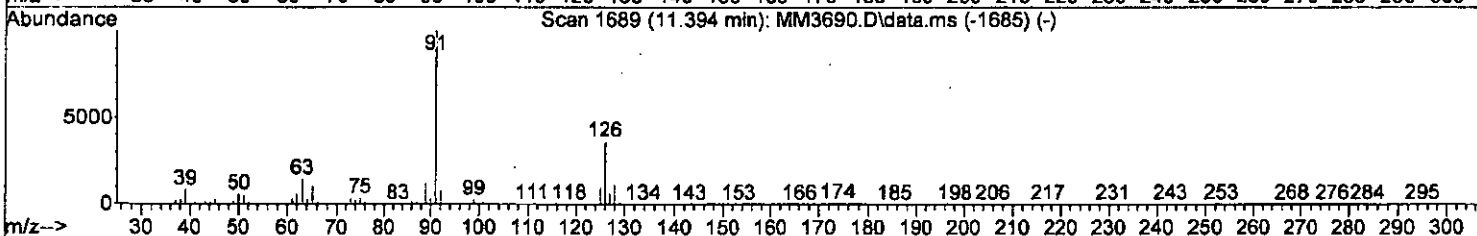
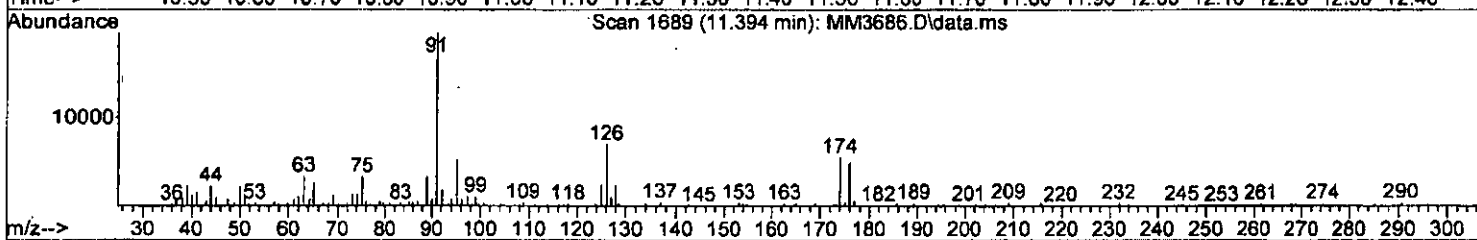
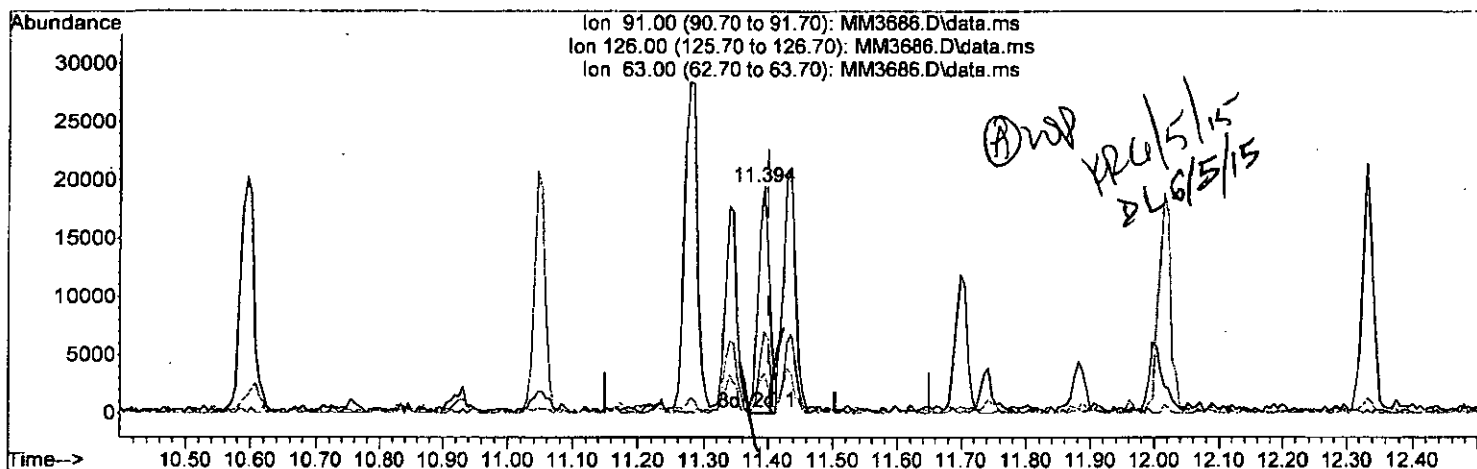
Quant Time: Jun 05 08:47:37 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration



TIC: MM3686.D\data.ms

(97) 3-Chlorotoluene

11.394min (-0.006) 0.94 ppb m

response 23749

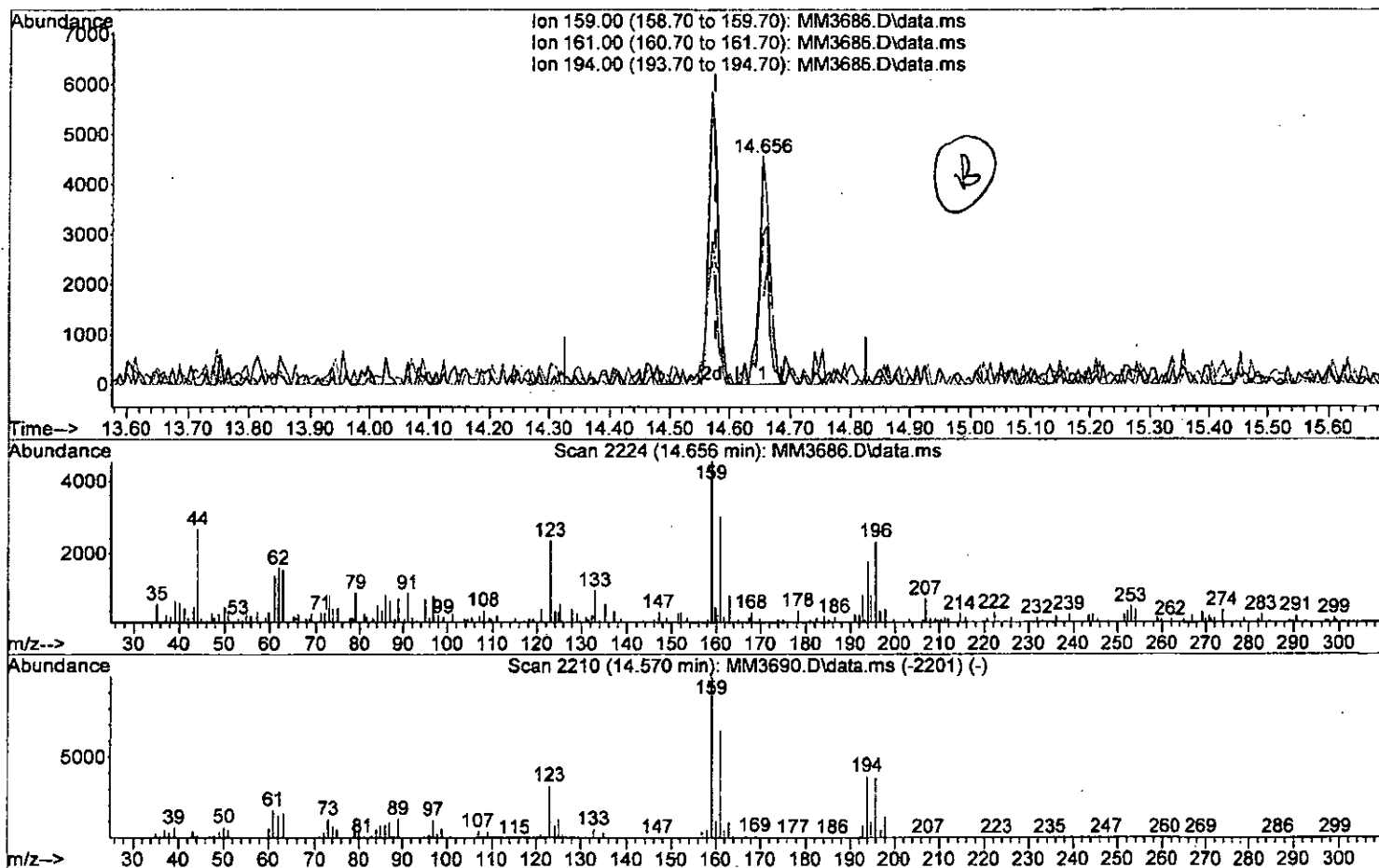
Ion	Exp%	Act%
91.00	100	100
126.00	35.30	35.84
63.00	14.60	17.60#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3686.D
 Acq On : 4 Jun 2015 1:10 pm
 Operator : K.Ruest
 Sample : 1.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3686.D\data.ms

(119) 2,4,5-Trichlorotolene

14.656min (+0.079) 0.97 ppb

response 5661

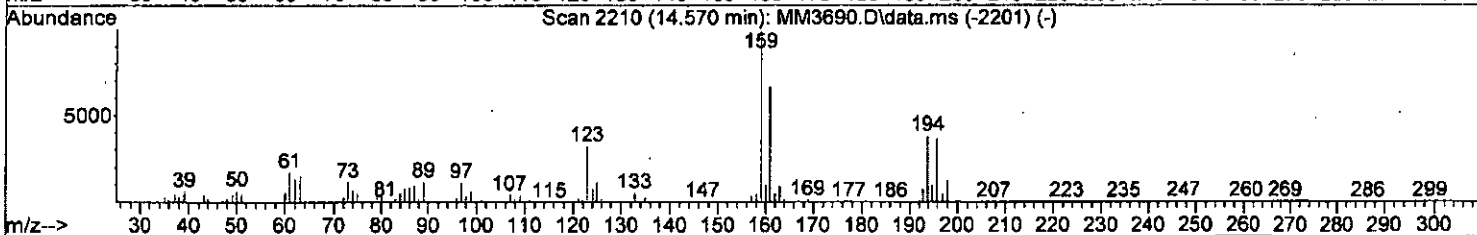
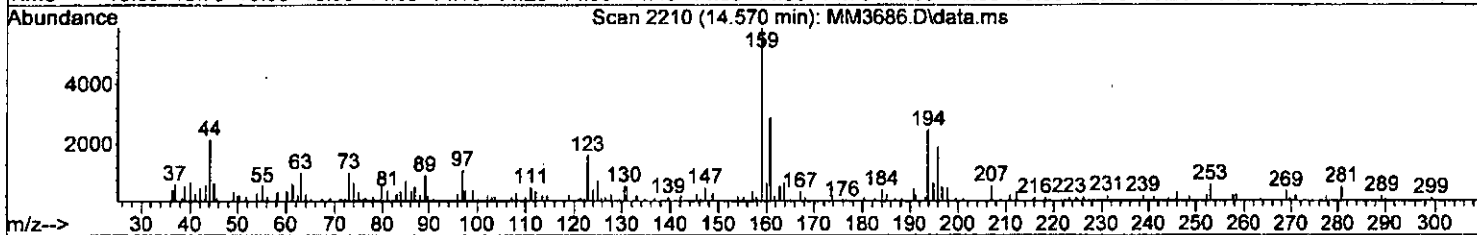
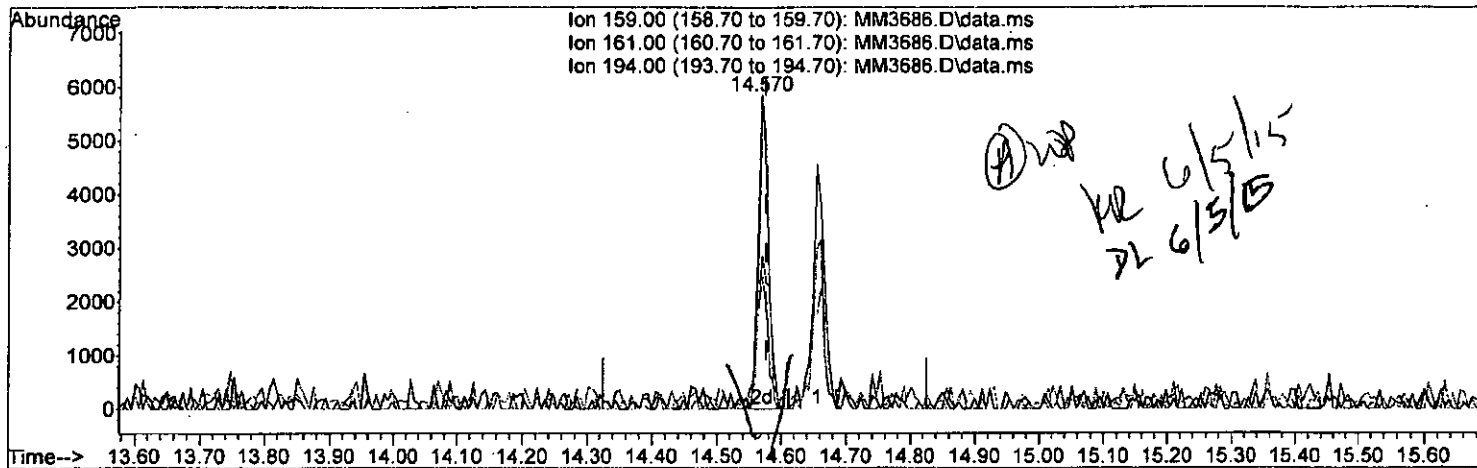
Ion	Exp%	Act%
159.00	100	100
161.00	66.50	66.04
194.00	38.20	38.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3686.D
Acq On : 4 Jun 2015 1:10 pm
Operator : K.Ruest
Sample : 1.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:37 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3686.D\data.ms

(119) 2,4,5-Trichlorotoluene

14.570min (-0.006) 1.09 ppb m

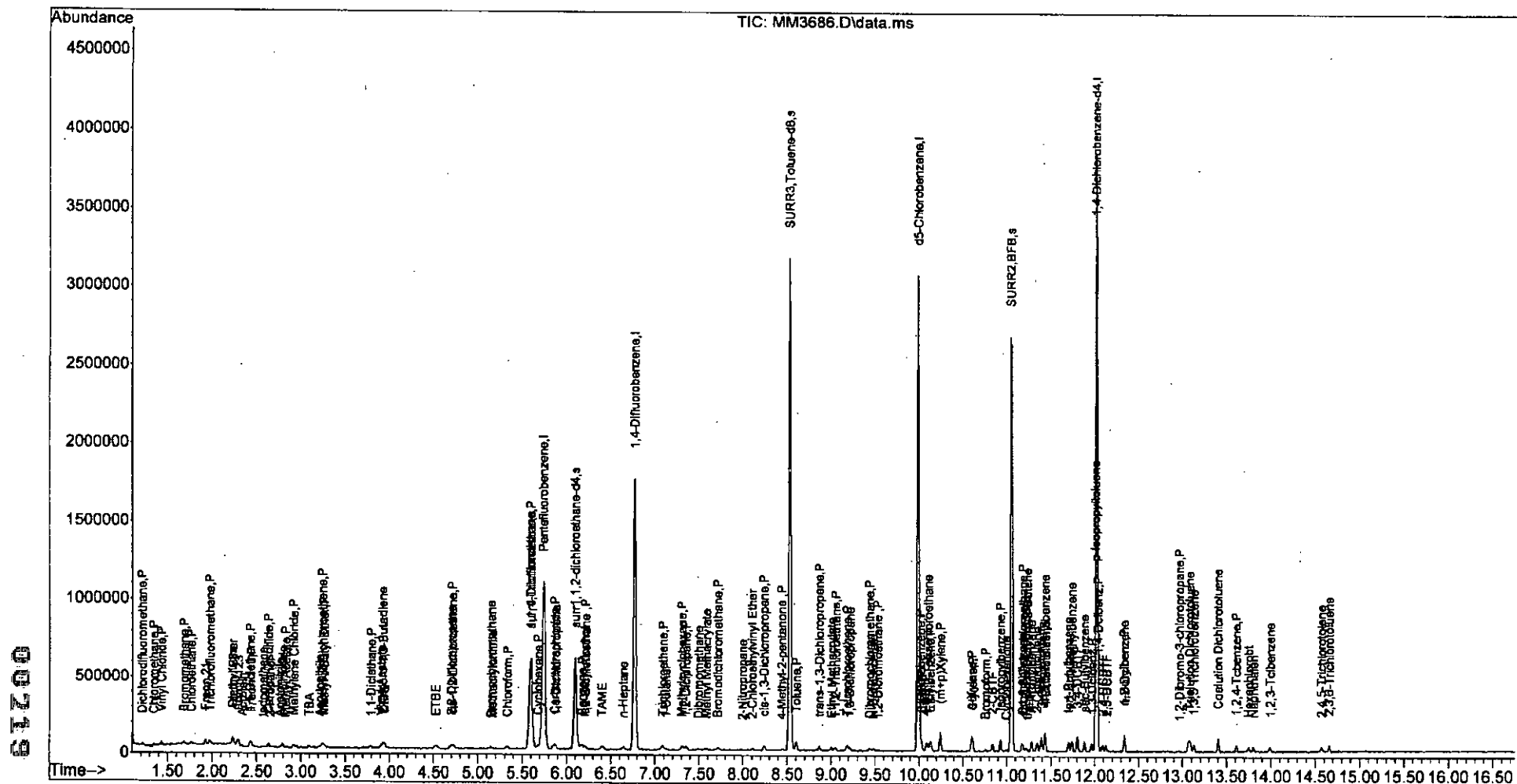
response 6362

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	48.87#
194.00	38.20	42.00
0.00	0.00	0.00

(QT Reviewed)

Inst : MSVOA-12

Quant Time: Jun 05 09:12:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3687.D

Acq On : 4 Jun 2015 1:41 pm

Operator : K.Ruest

Sample : 2.0ppb

Misc : 8260 WATER ICAL

ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:18:20 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	901515	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1485964	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1399505	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	730318	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibromomethane	5.590	113	502327	62.47	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 124.94%			
48) surr1,1,2-dichloroetha...	6.096	65	549708	64.00	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 128.00%			
65) SURR3,Toluene-d8	8.529	98	2250811	64.09	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 128.18%			
70) SURR2,BFB	11.047	95	838210	62.82	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 125.64%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	13527	1.73	ppb	85
3) Chloromethane	1.341	50	15228	2.04	ppb	83
4) Vinyl Chloride	1.427	62	17063	1.82	ppb	99
5) Bromomethane	1.683	94	11306	2.05	ppb	97
6) Chloroethane	1.768	64	12383	1.99	ppb	82
7) Freon 21	1.920	67	31636	2.02	ppb	88
8) Trichlorofluoromethane	1.975	101	28931	2.05	ppb	86
9) Diethyl Ether	2.231	59	13164	2.11	ppb	88
10) Freon 123a	2.237	67	20957m	2.07	ppb	
11) Freon 123	2.292	83	22954	1.98	ppb	97
12) Acrolein	2.335	56	4152	6.38	ppb	86
13) 1,1-Dichloroethene	2.432	96	13688	2.07	ppb	88
14) Freon 113	2.439	101	12650	1.93	ppb	# 76
15) Acetone	2.487	43	3003	2.40	ppb	69
16) 2-Propanol	2.652	45	10974	44.18	ppb	82
17) Iodomethane	2.567	142	7775	1.12	ppb	77
18) Carbon Disulfide	2.634	76	42572	2.01	ppb	98
19) Acetonitrile	2.756	40	1634m	9.89	ppb	
20) Allyl Chloride	2.798	76	7759	1.94	ppb	# 78
21) Methyl Acetate	2.829	43	6202	2.25	ppb	91
22) Methylene Chloride	2.920	84	14247	2.02	ppb	87
23) TBA	3.097	59	17827	39.82	ppb	74
24) Acrylonitrile	3.213	53	14072	9.74	ppb	91
25) Methyl-t-Butyl Ether	3.268	73	33911	1.97	ppb	94
26) trans-1,2-Dichloroethene	3.243	96	15562	2.10	ppb	# 73
28) 1,1-Dichloroethane	3.792	63	24613	2.01	ppb	95
29) Vinyl Acetate	3.902	86	2815	1.92	ppb	# 58
30) DIPE	3.944	45	41834	1.97	ppb	# 79
31) 2-Chloro-1,3-Butadiene	3.932	53	25068	1.88	ppb	84
32) ETBE	4.524	59	43912	2.07	ppb	90
33) 2,2-Dichloropropane	4.706	77	22834	1.96	ppb	96
34) cis-1,2-Dichloroethene	4.719	96	15620	1.98	ppb	98
36) Propionitrile	4.889	54	5627m	11.09	ppb	
37) Bromochloromethane	5.139	130	9140m	2.09	ppb	

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:18:20 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) Methacrylonitrile	5.145	67	4629	2.40	ppb	# 46
39) Tetrahydrofuran	5.255	42	2449m	2.16	ppb	
40) Chloroform	5.328	83	28155	2.18	ppb	95
41) 1,1,1-Trichloroethane	5.584	97	25209	2.02	ppb	88
42) TAME	6.407	73	35089	1.90	ppb	97
44) Cyclohexane	5.682	41	14548	2.16	ppb	81
46) Carbontetrachloride	5.859	121	6776m	2.10	ppb	
47) 1,1-Dichloropropene	5.871	75	19465	1.90	ppb	86
49) Benzene	6.170	78	57195	1.94	ppb	94
50) 1,2-Dichloroethane	6.212	62	17987	1.91	ppb	84
51) Iso-Butyl Alcohol	6.212	43	9497	48.55	ppb	88
52) n-Heptane	6.645	43	13464	2.15	ppb	82
53) 1-Butanol	7.127	56	13585	109.36	ppb	93
54) Trichloroethene	7.090	130	15250	1.92	ppb	# 84
55) Methylcyclohexane	7.316	55	14961	2.01	ppb	90
56) 1,2-Dicloropropane	7.352	63	14676	2.08	ppb	97
57) Dibromomethane	7.492	93	8741m	2.30	ppb	
58) 1,4-Dioxane	7.566	88	3093m	53.85	ppb	
59) Methyl Methacrylate	7.578	69	7478	2.14	ppb	# 76
60) Bromodichloromethane	7.712	83	20974	2.02	ppb	85
61) 2-Nitropropane	7.986	41	5758	4.35	ppb	90
62) 2-Chloroethylvinyl Ether	8.108	63	5801	1.78	ppb	# 61
63) cis-1,3-Dichloropropene	8.242	75	23575	1.99	ppb	92
64) 4-Methyl-2-pentanone	8.437	43	8083	2.01	ppb	96
66) Toluene	8.602	91	67104	1.99	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	20155	1.99	ppb	94
68) Ethyl Methacrylate	8.998	69	14659	1.99	ppb	86
69) 1,1,2-Trichloroethane	9.041	97	10465	1.92	ppb	94
72) Tetrachloroethene	9.181	164	13651	2.13	ppb	93
73) 2-Hexanone	9.334	43	4934	1.74	ppb	90
74) 1,3-Dichloropropane	9.212	76	17415	1.90	ppb	89
75) Dibromochloromethane	9.431	129	12087	1.75	ppb	# 55
76) N-Butyl Acetate	9.480	43	14534	1.96	ppb	91
77) 1,2-Dibromoethane	9.529	107	10171	1.87	ppb	89
78) Chlorobenzene	10.016	112	44087	1.94	ppb	95
79) 3-CBTF	10.029	180	21028	1.96	ppb	93
80) 4-CBTF	10.083	180	18211	1.87	ppb	93
81) 1,1,1,2-Tetrachloroethane	10.096	131	16469	2.11	ppb	# 74
82) Ethylbenzene	10.132	106	21755	1.76	ppb	99
83) (m+p)Xylene	10.242	106	58404	3.89	ppb	94
84) o-Xylene	10.596	106	27494	1.89	ppb	# 77
85) Styrene	10.608	104	48747	1.95	ppb	94
87) Bromoform	10.760	173	7351	1.97	ppb	81
88) 2-CBTF	10.833	180	21052	1.99	ppb	86
89) Isopropylbenzene	10.925	105	71983	2.12	ppb	88
90) Cyclohexanone	10.992	55	8026	39.35	ppb	99
91) trans-1,4-Dichloro-2-B...	11.223	53	3256	1.78	ppb	96
92) 1,1,2,2-Tetrachloroethane	11.181	83	12112	1.96	ppb	93
93) Bromobenzene	11.175	156	16672	1.97	ppb	86
94) 1,2,3-Trichloropropane	11.211	110	3710	1.98	ppb	# 79
95) n-Propylbenzene	11.278	91	78318	2.05	ppb	99

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:18:20 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 2-Chlorotoluene	11.339	91	47385	2.01	ppb	94
97) 3-Chlorotoluene	11.394	91	50779	2.03	ppb	96
98) 4-Chlorotoluene	11.437	91	60462	2.08	ppb	93
99) 1,3,5-Trimethylbenzene	11.431	105	57008	1.96	ppb	95
100) tert-Butylbenzene	11.699	119	45181	1.93	ppb	92
101) 1,2,4-Trimethylbenzene	11.736	105	56851	1.94	ppb	93
102) 3,4-DCBTF	11.803	214	13734	1.98	ppb #	86
103) sec-Butylbenzene	11.882	105	65640	2.05	ppb	95
104) p-Isopropyltoluene	11.998	119	56642	2.08	ppb	98
105) 1,3-Dclbenz	11.961	146	32999	2.01	ppb	92
106) 1,4-Dclbenz	12.034	146	37438	2.19	ppb	88
107) 2,4-DCBTF	12.089	214	11911	1.95	ppb	97
108) 2,5-DCBTF	12.126	214	12662	1.84	ppb #	86
109) n-Butylbenzene	12.333	91	45693	1.87	ppb	99
110) 1,2-Dclbenz	12.333	146	30547	1.99	ppb	98
111) 1,2-Dibromo-3-chloropr...	12.955	157	2893	2.32	ppb #	76
112) Trielution Dichlorotol...	13.071	125	78833	6.09	ppb	93
113) 1,3,5 Trichlorobenzene	13.126	180	18271	1.90	ppb	97
114) Coelution Dichlorotoluene	13.400	125	53153	3.84	ppb	97
115) 1,2,4-Tcbenzene	13.607	180	18894	2.14	ppb	82
116) Hexachlorobt	13.747	225	7949	2.34	ppb	86
117) Naphthalen	13.796	128	36775	1.99	ppb	96
118) 1,2,3-Tclbenzene	13.985	180	15095	2.09	ppb	94
119) 2,4,5-Trichlorotoluene	14.570	159	11740	2.04	ppb	97
120) 2,3,6-Trichlorotoluene	14.662	159	9317	1.88	ppb	98

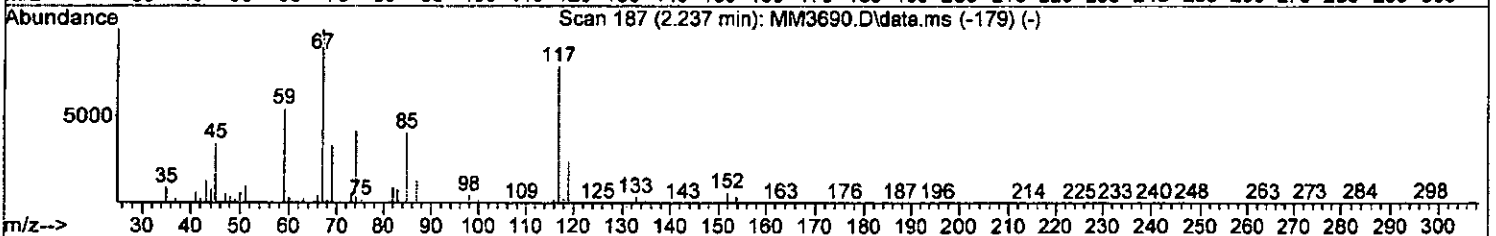
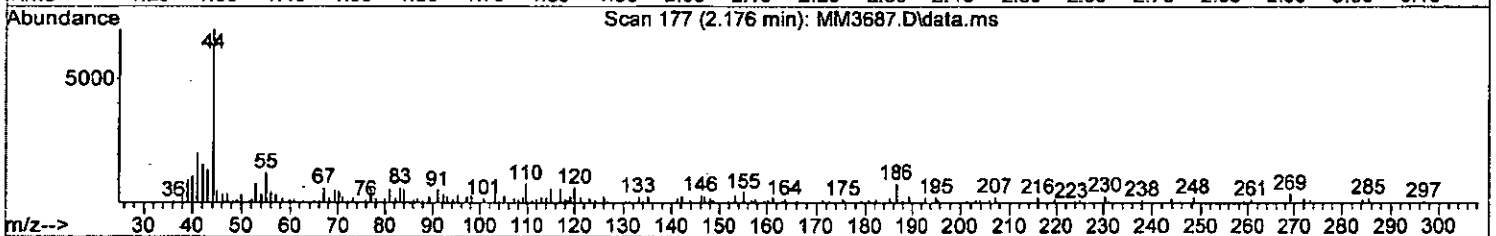
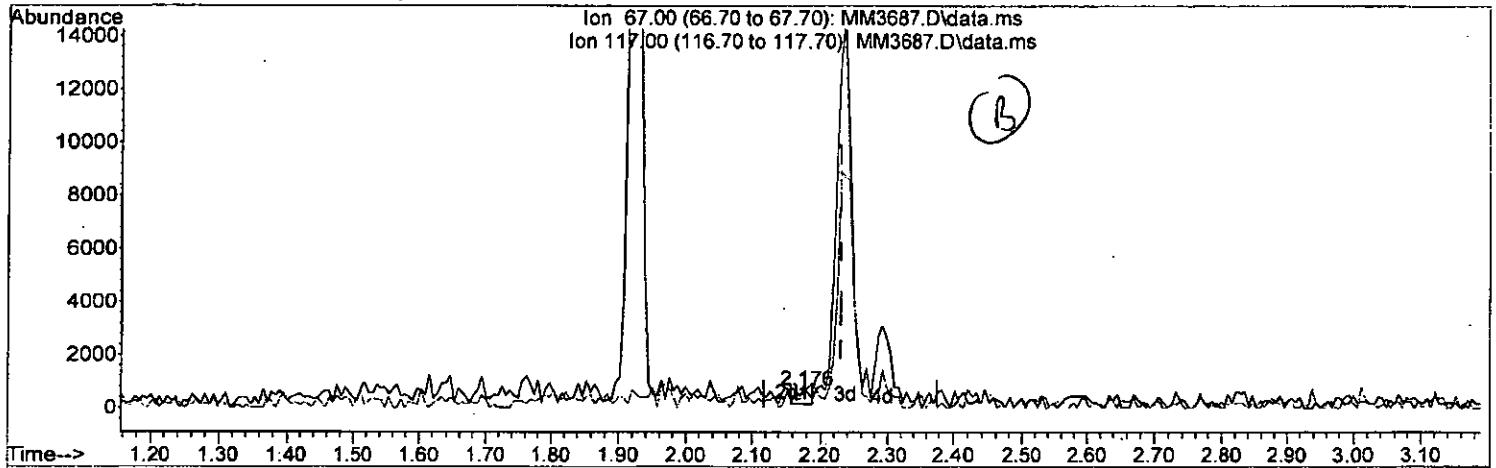
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(10) Freon 123a

2.176min (-0.055) 0.07 ppb

response 736

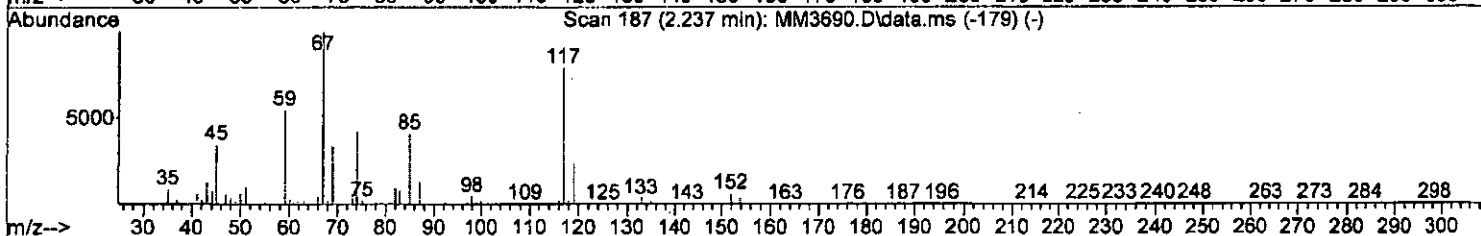
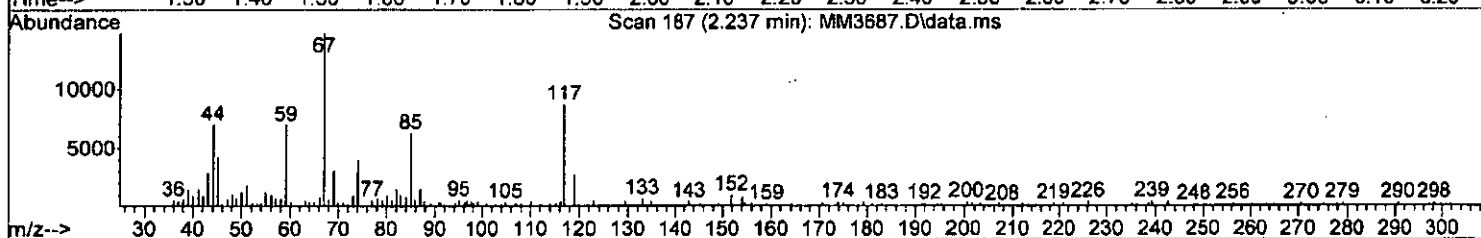
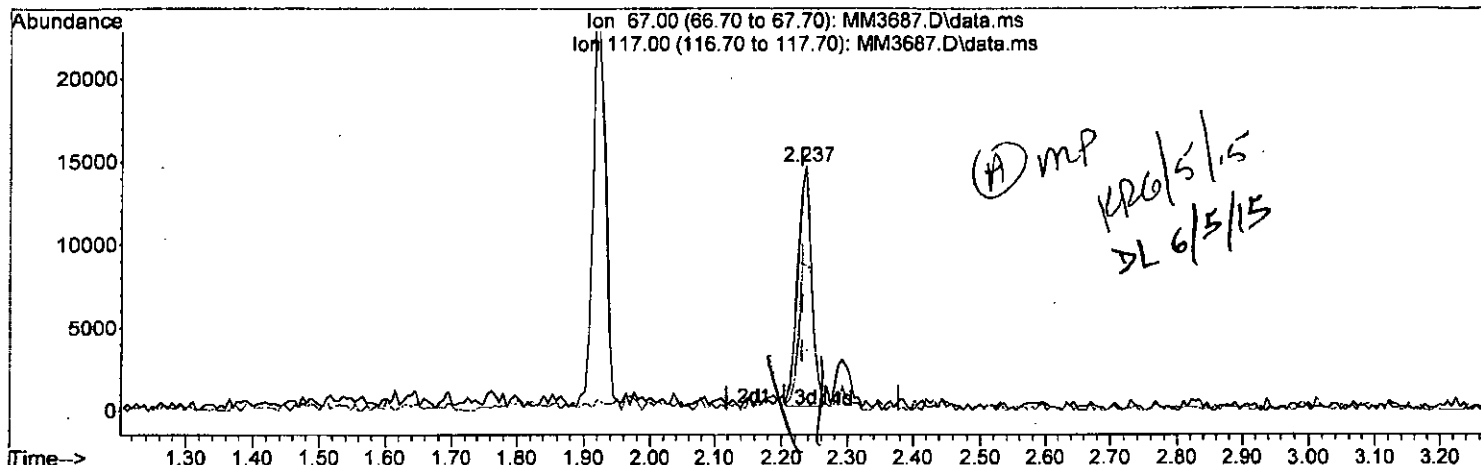
Ion	Exp%	Act%
67.00	100	100
117.00	79.00	90.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(10) Freon 123a

2.237min (+0.006) 2.07 ppb m

response 20957

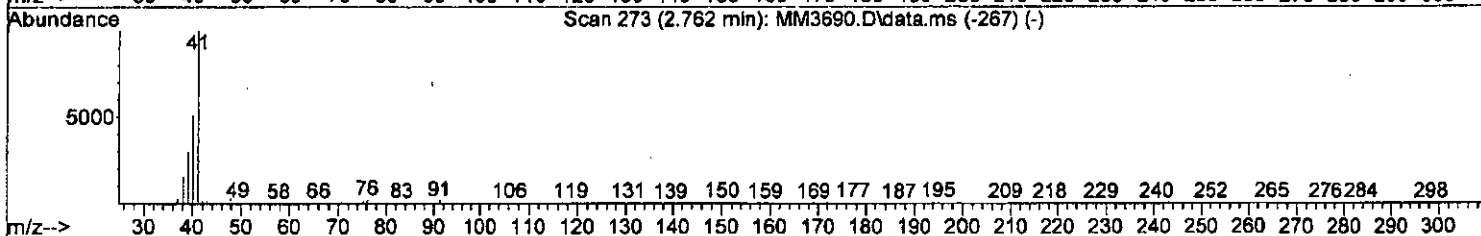
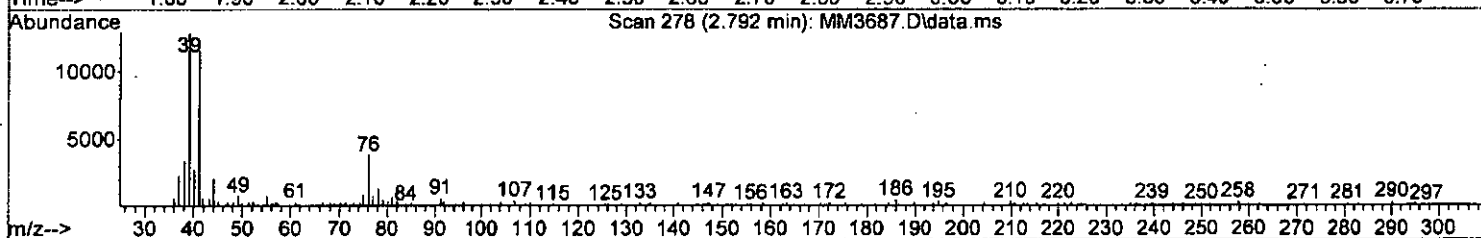
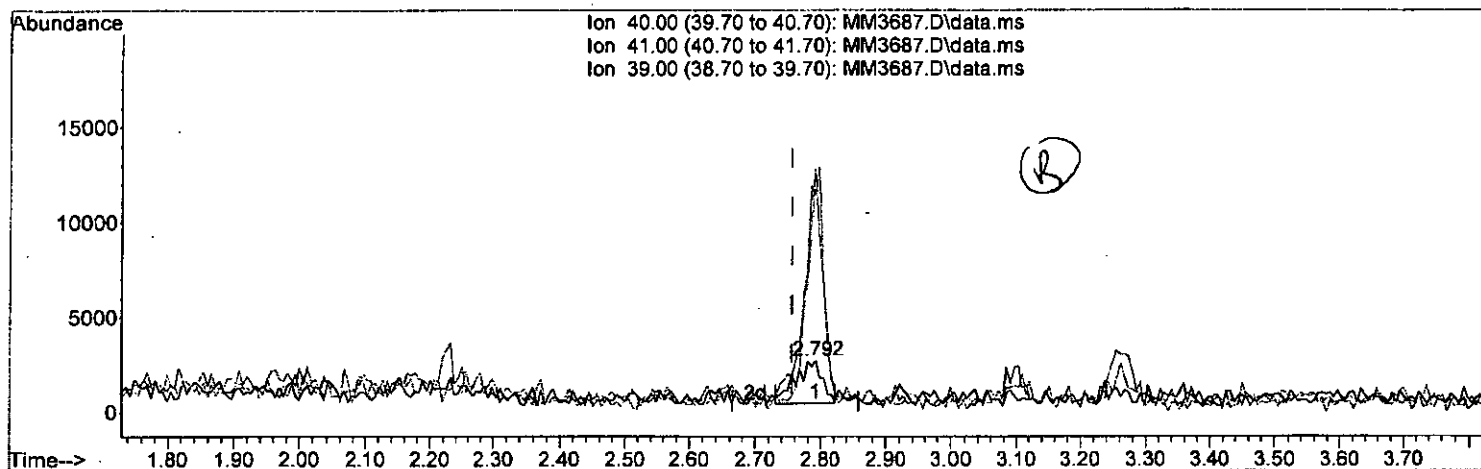
Ion	Exp%	Act%
67.00	100	100
117.00	79.00	58.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(19) Acetonitrile

2.792min (+0.036) 38.06 ppb

response 6288

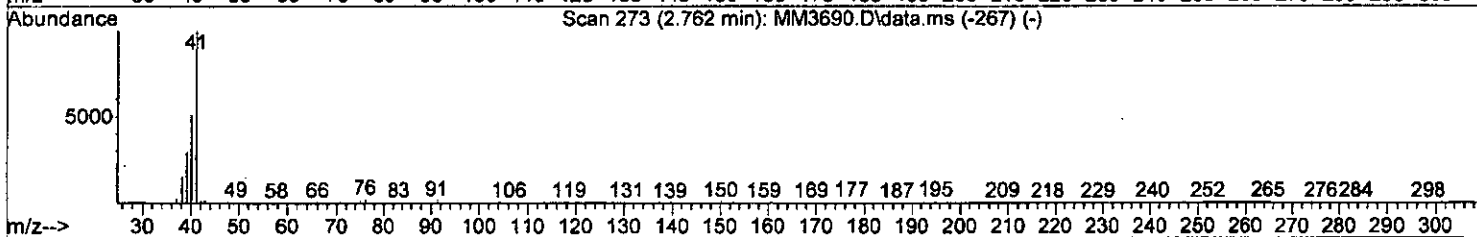
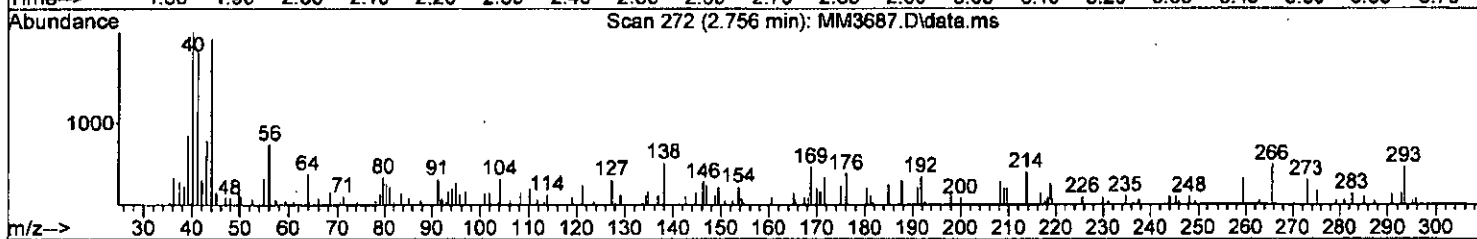
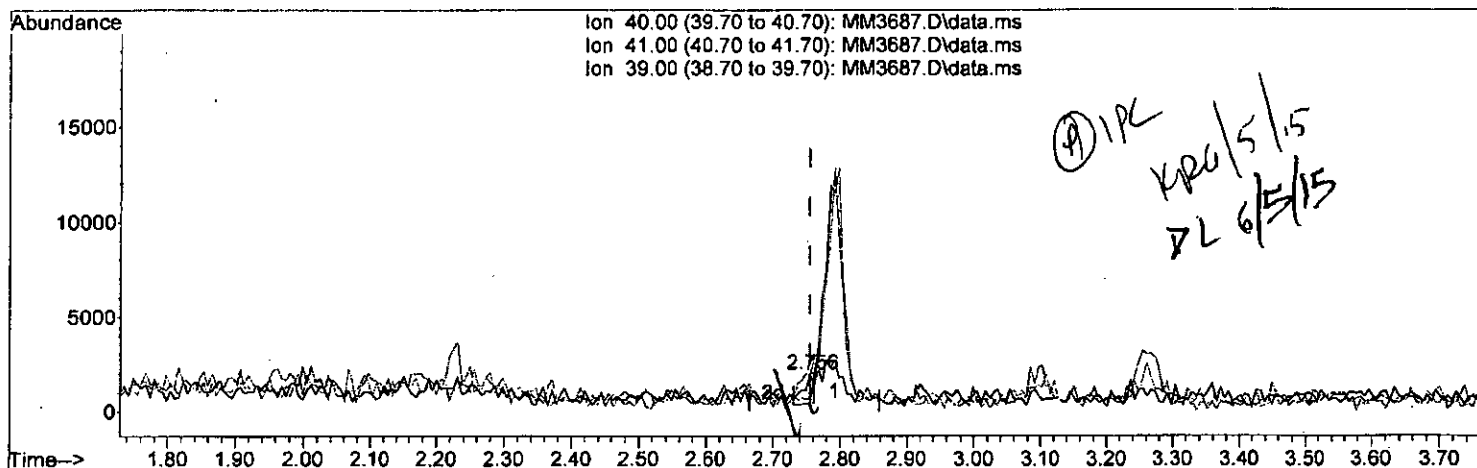
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	423.20#
39.00	58.40	472.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
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TIC: MM3687.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 9.89 ppb m

response 1634

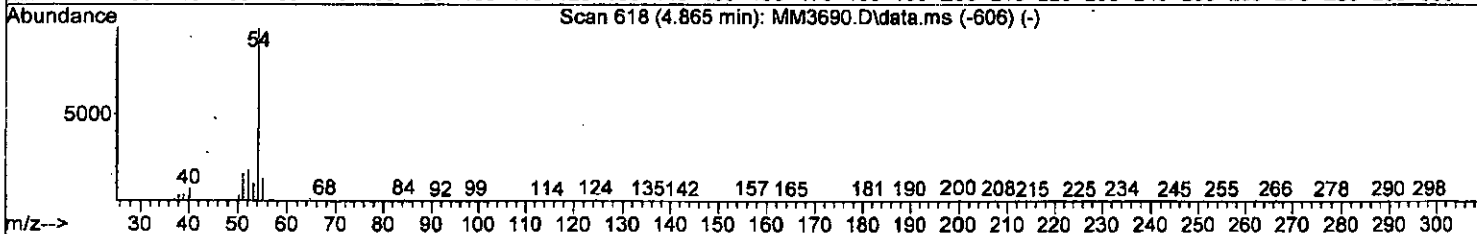
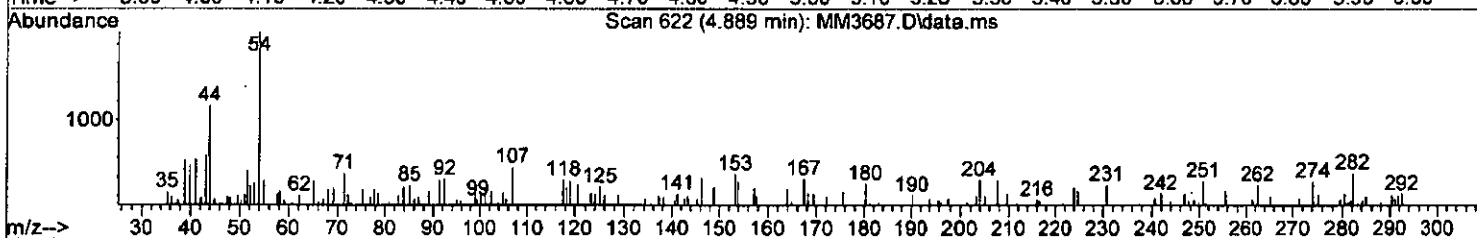
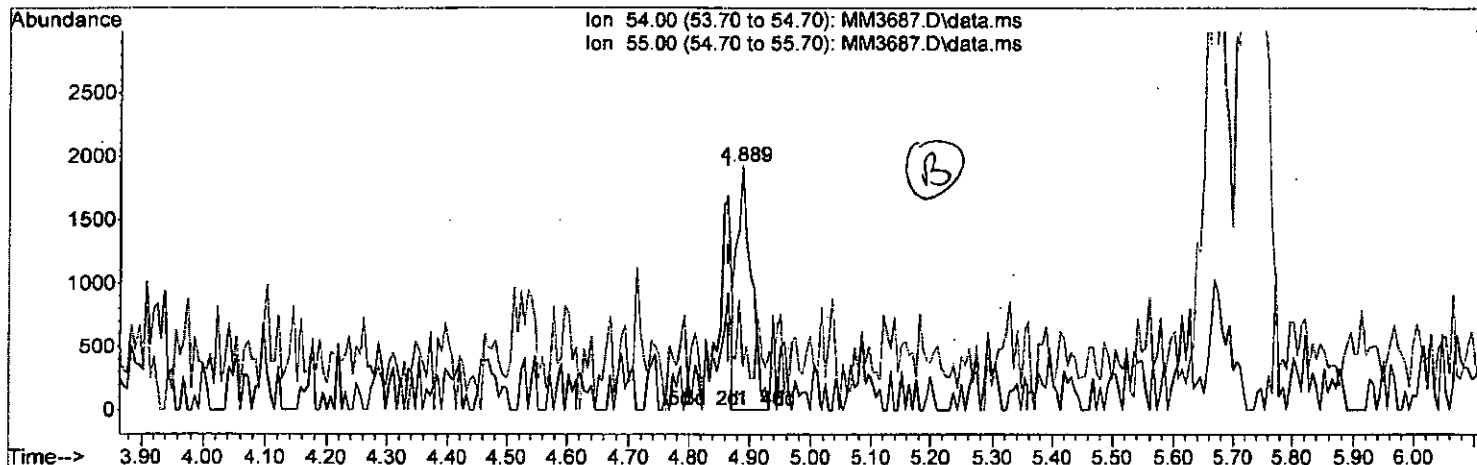
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	89.01#
39.00	58.40	42.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
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 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
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TIC: MM3687.D\data.ms

(36) Propionitrile

4.889min (+0.024) 6.33 ppb

response 3210

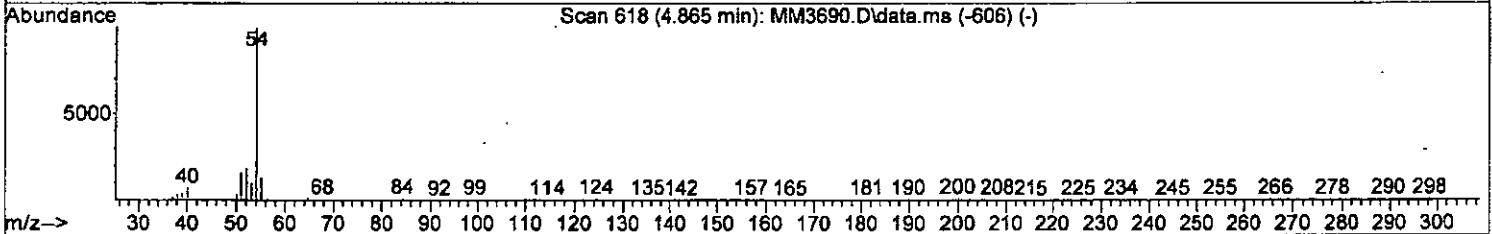
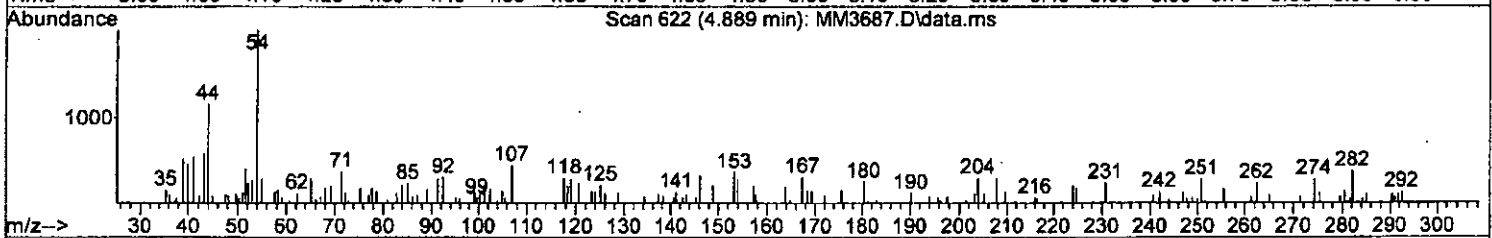
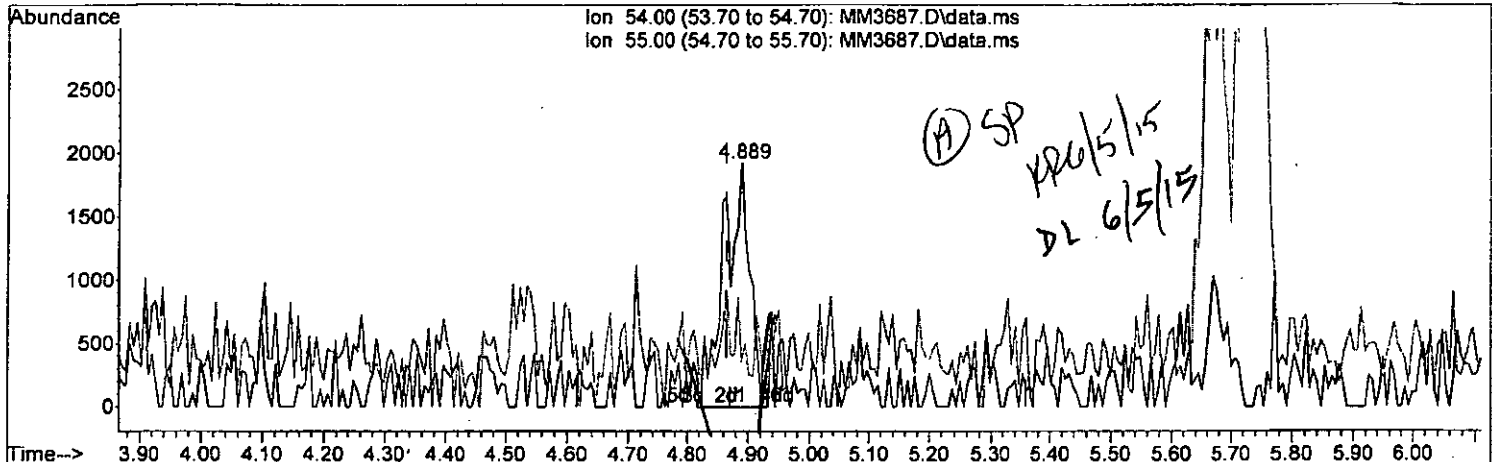
Ion	Exp%	Act%
54.00	100	100
55.00	15.00	18.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
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TIC: MM3687.D\data.ms

(36) Propionitrile

4.889min (+0.024) 11.09 ppb m

response 5627

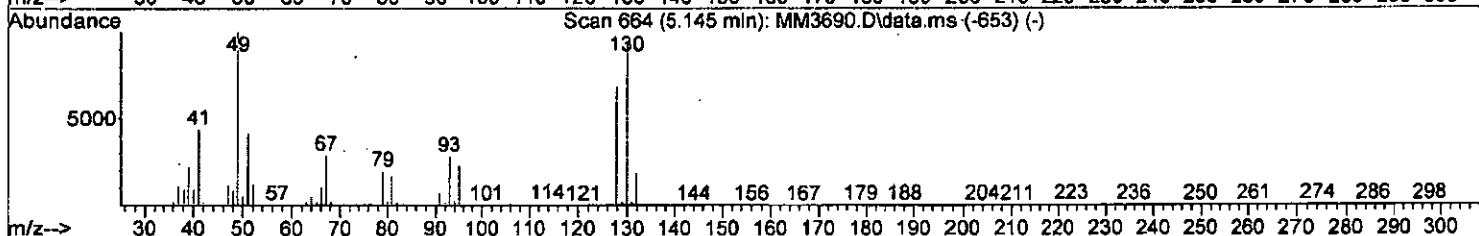
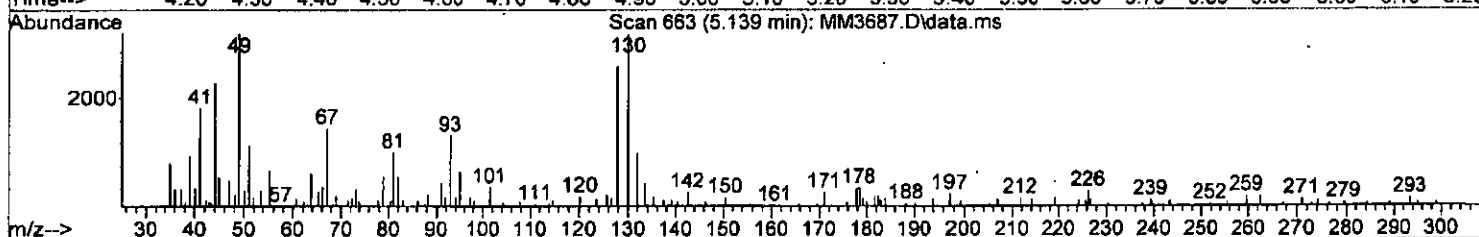
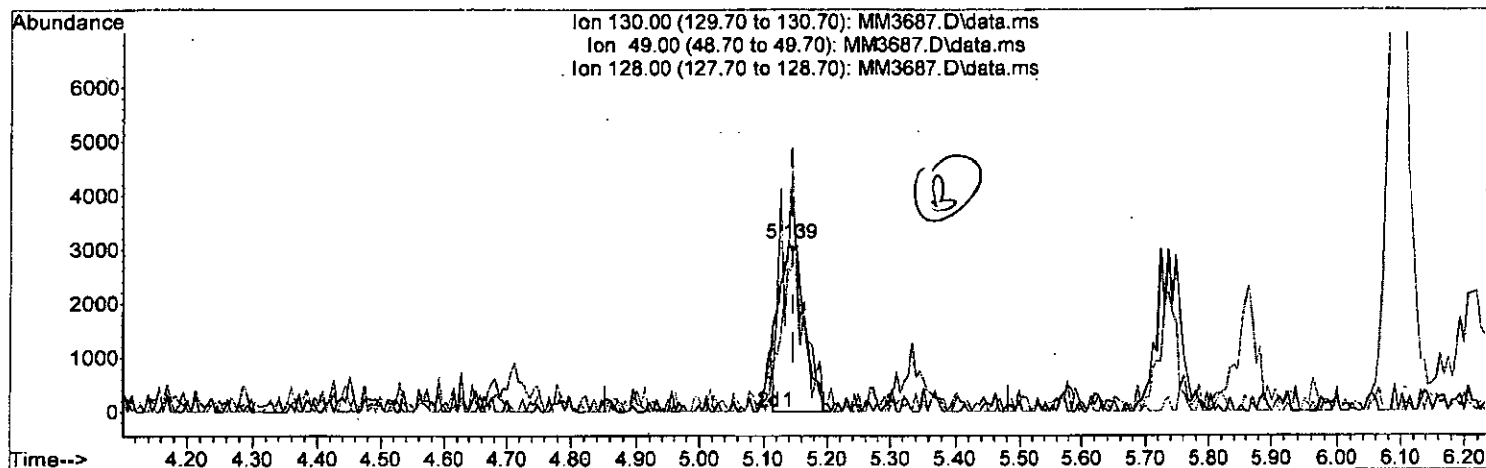
Ion	Exp%	Act%
54.00	100	100
55.00	15.00	18.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
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 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 1.89 ppb

response 8271

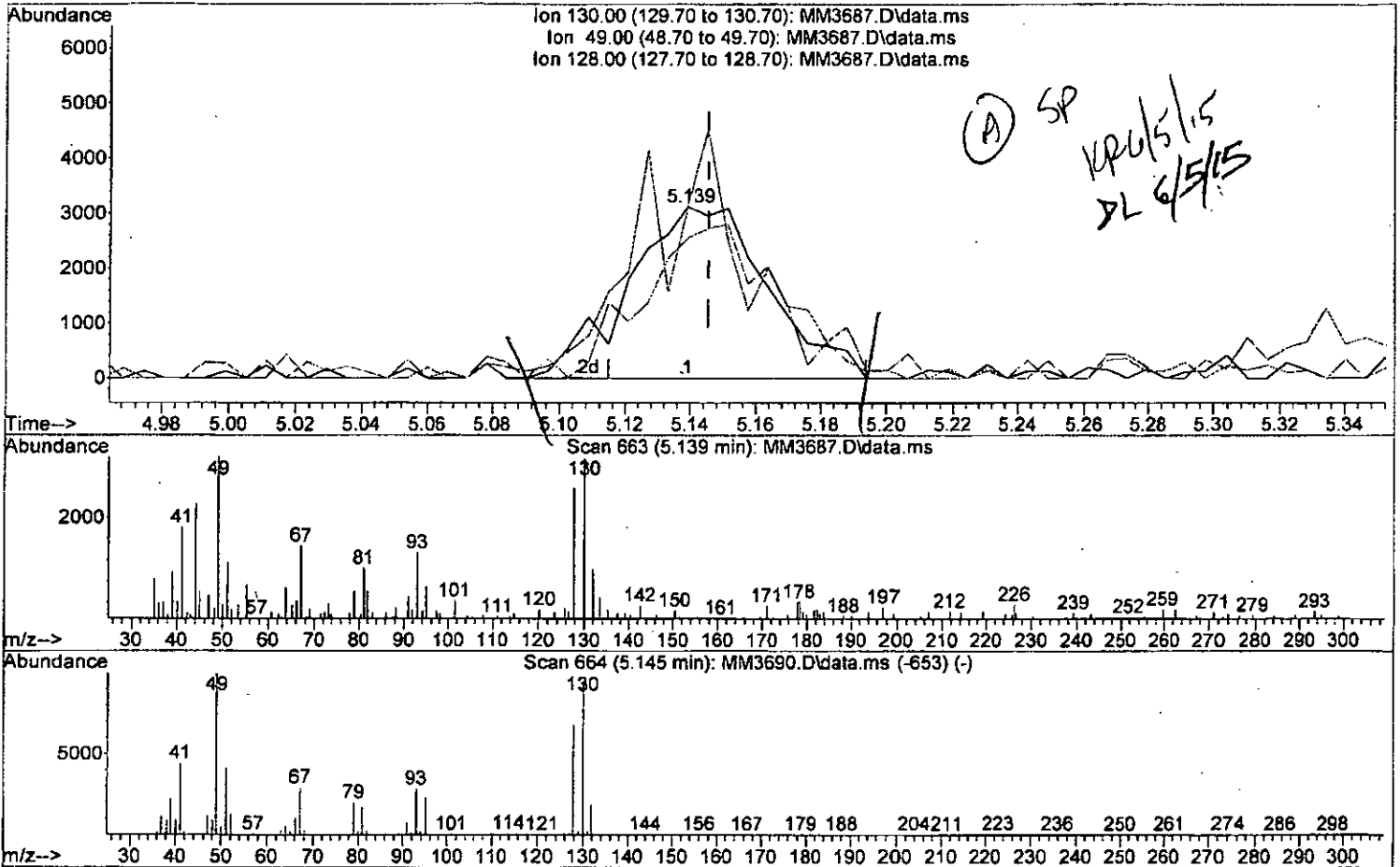
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	100.58
128.00	72.20	81.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(37) Bromochloromethane

5.139min (-0.006) 2.09 ppb m

response 9140

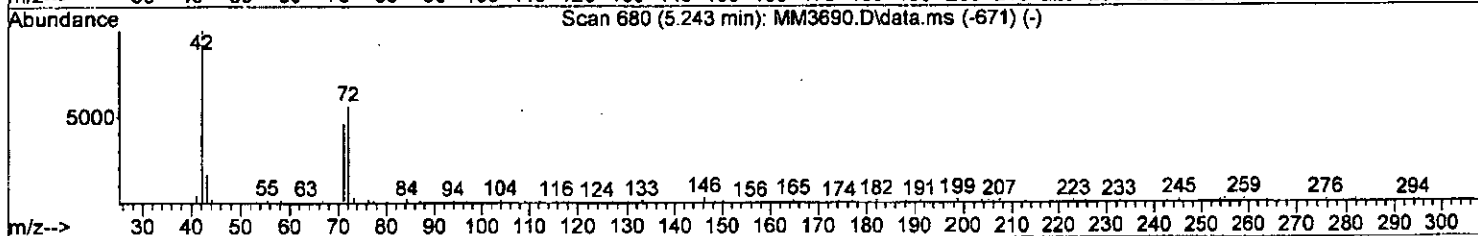
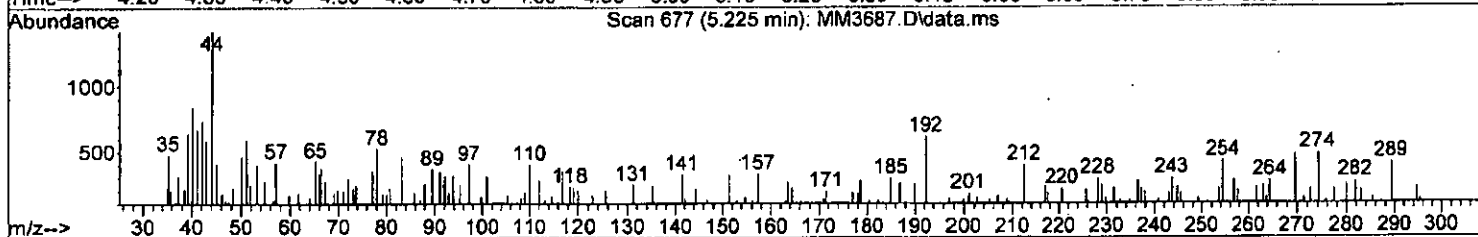
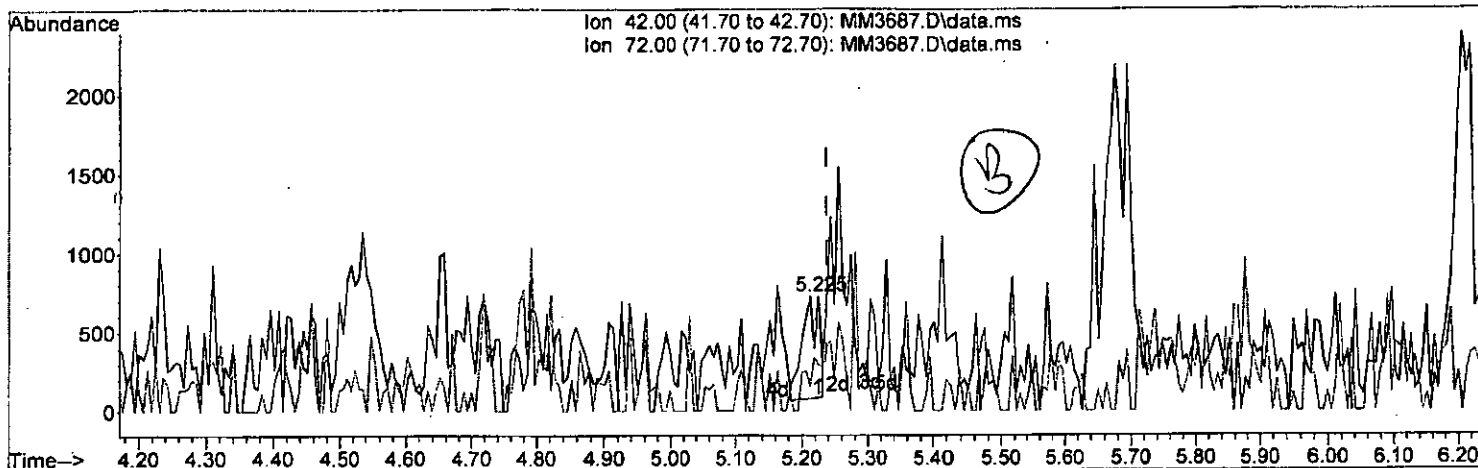
Ion	Exp%	Act%
130.00	100	100
49.00	106.10	100.58
128.00	72.20	81.83
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(39) Tetrahydrofuran

5.225min (-0.012) 1.00 ppb

response 1132

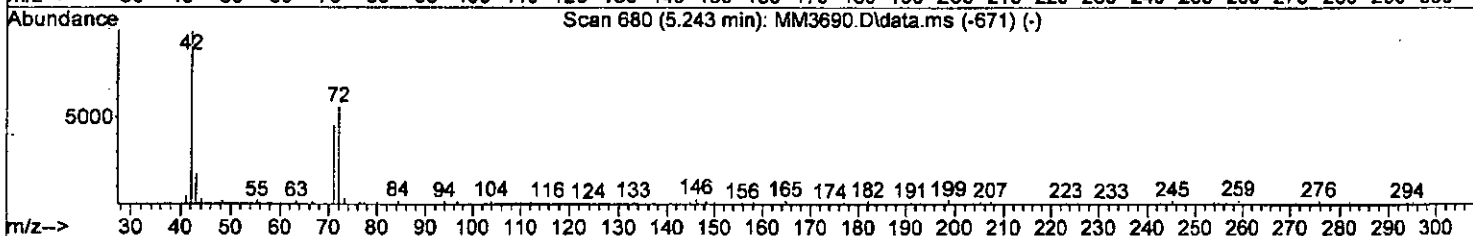
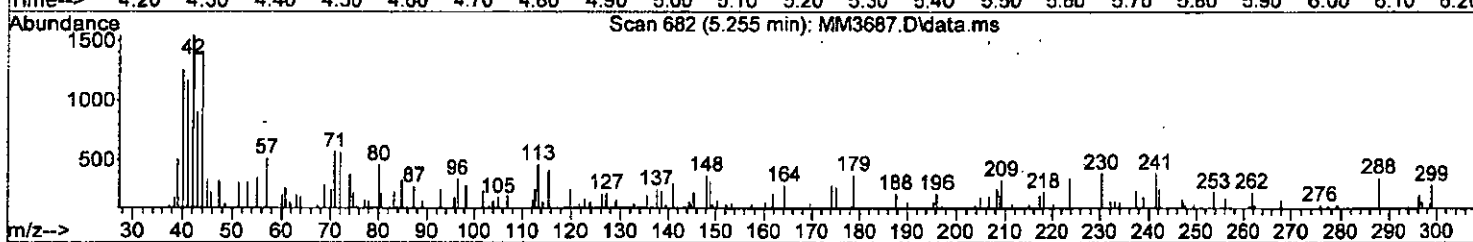
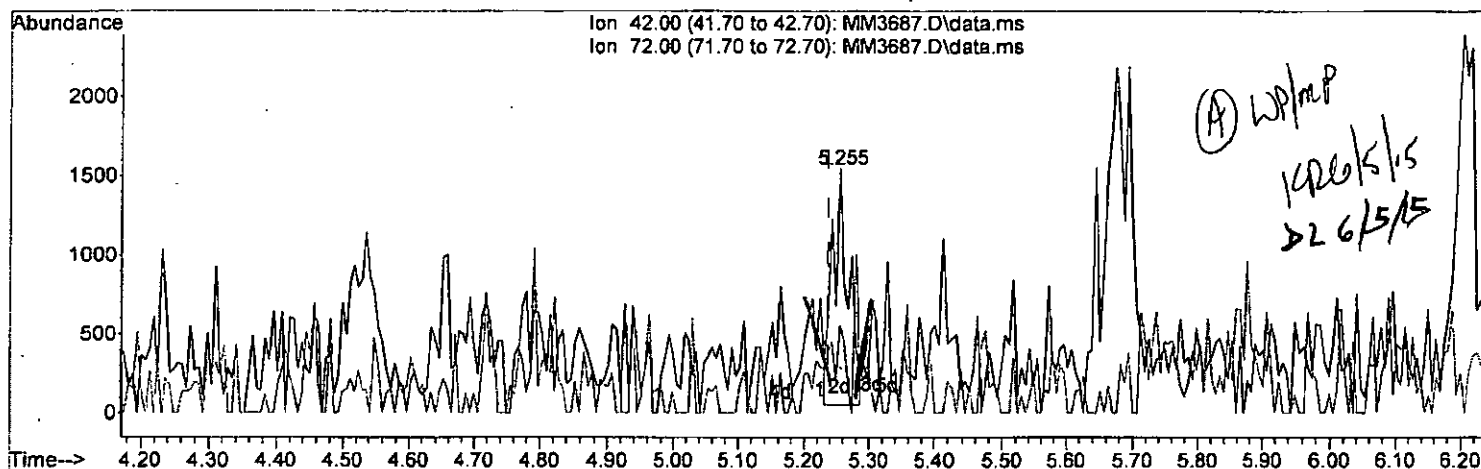
Ion	Exp%	Act%
42.00	100	100
72.00	55.20	40.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(39) Tetrahydrofuran

5.255min (+0.018) 2.16 ppb m

response 2449

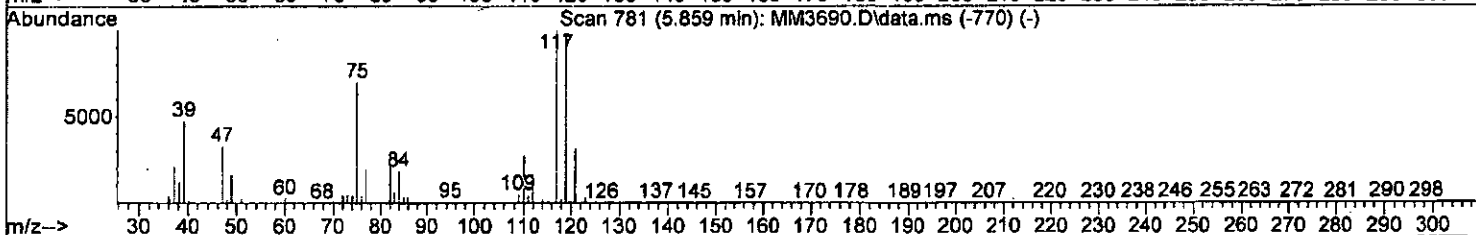
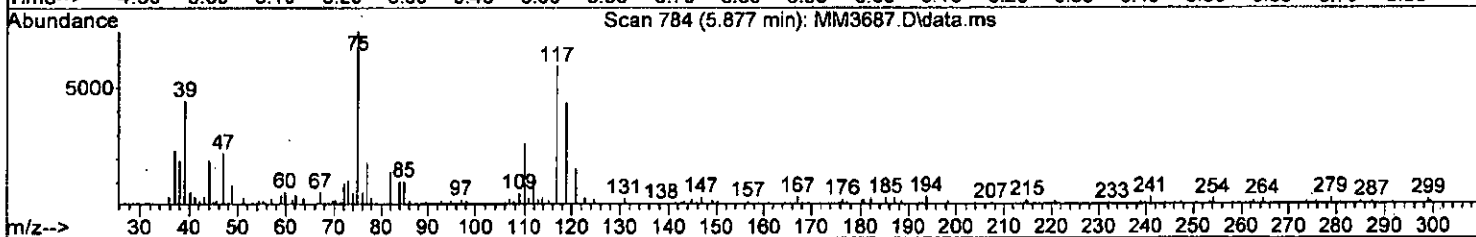
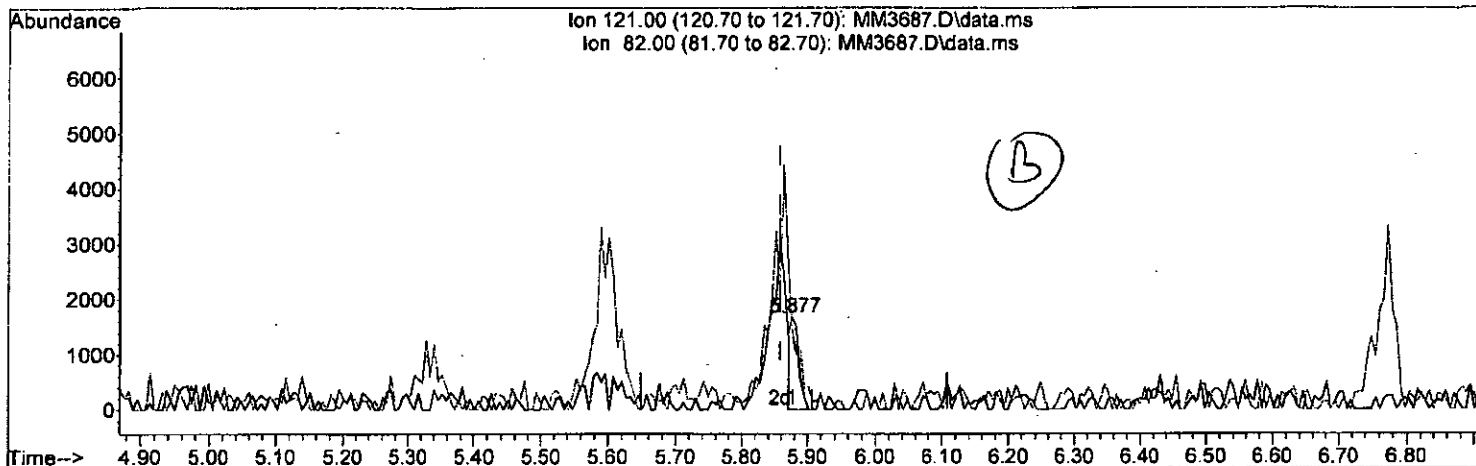
Ion	Exp%	Act%
42.00	100	100
72.00	55.20	36.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(46) Carbontetrachloride (P)

5.877min (+0.018) 0.45 ppb

response 1447

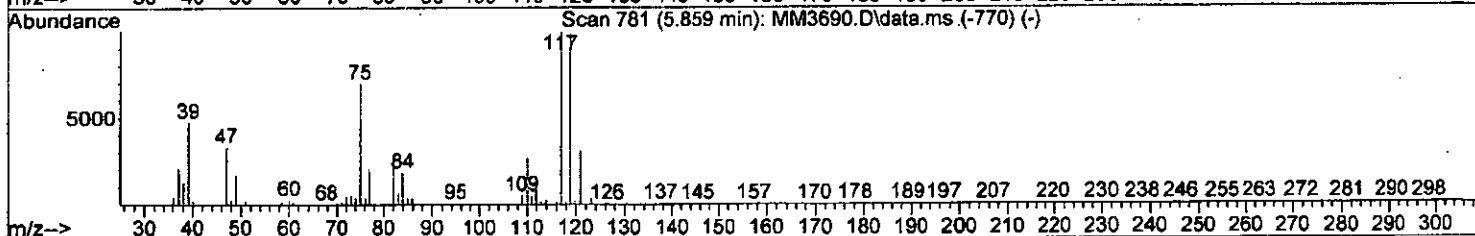
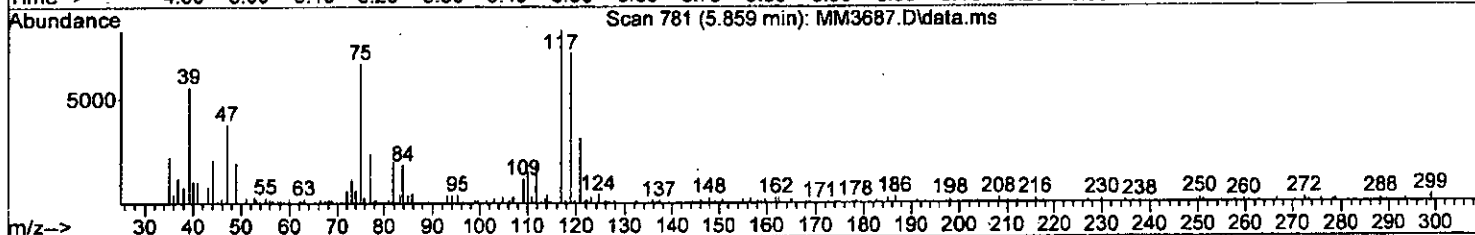
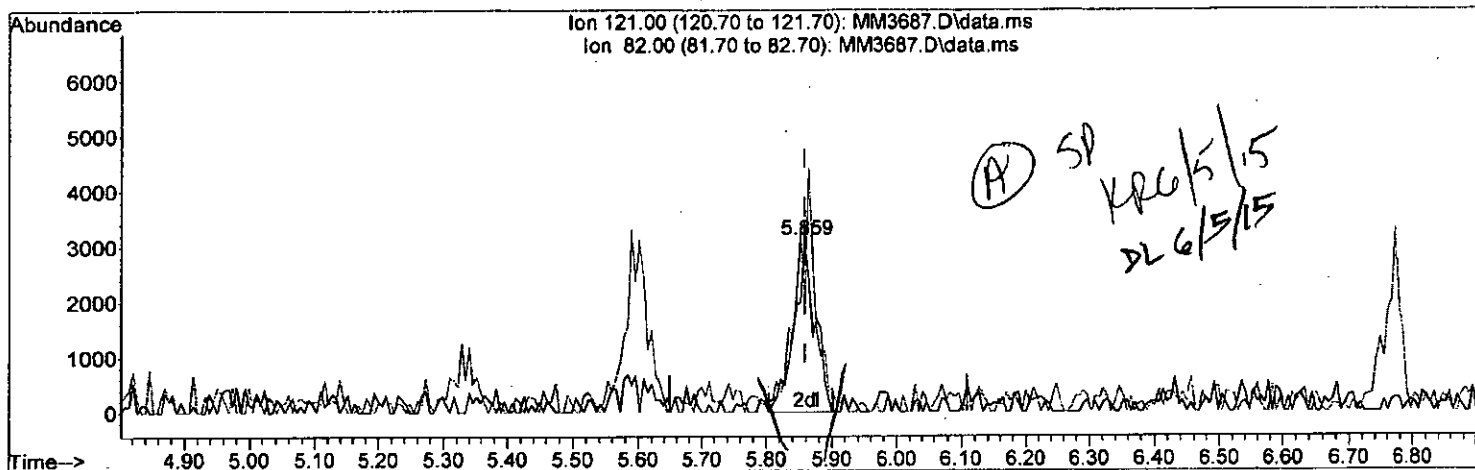
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	85.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:18:20 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(46) Carbontetrachloride (P)

5.859min (-0.000) 2.10 ppb m

response 6776

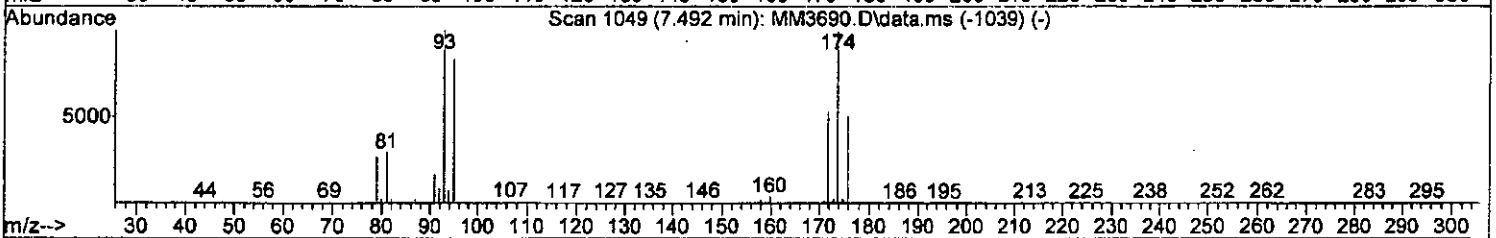
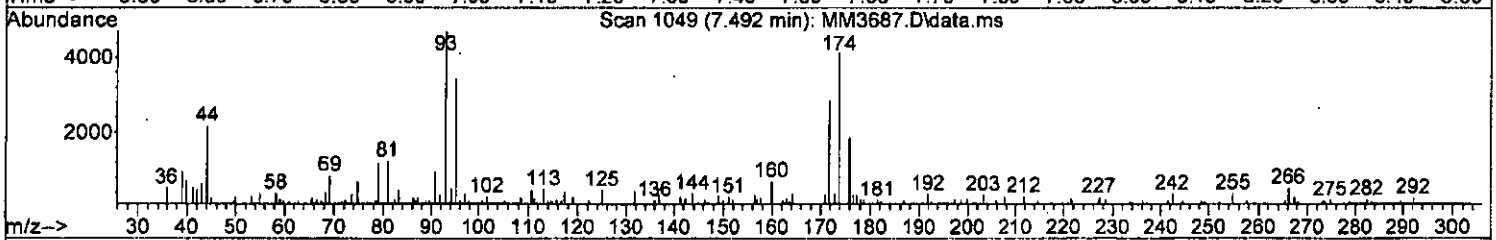
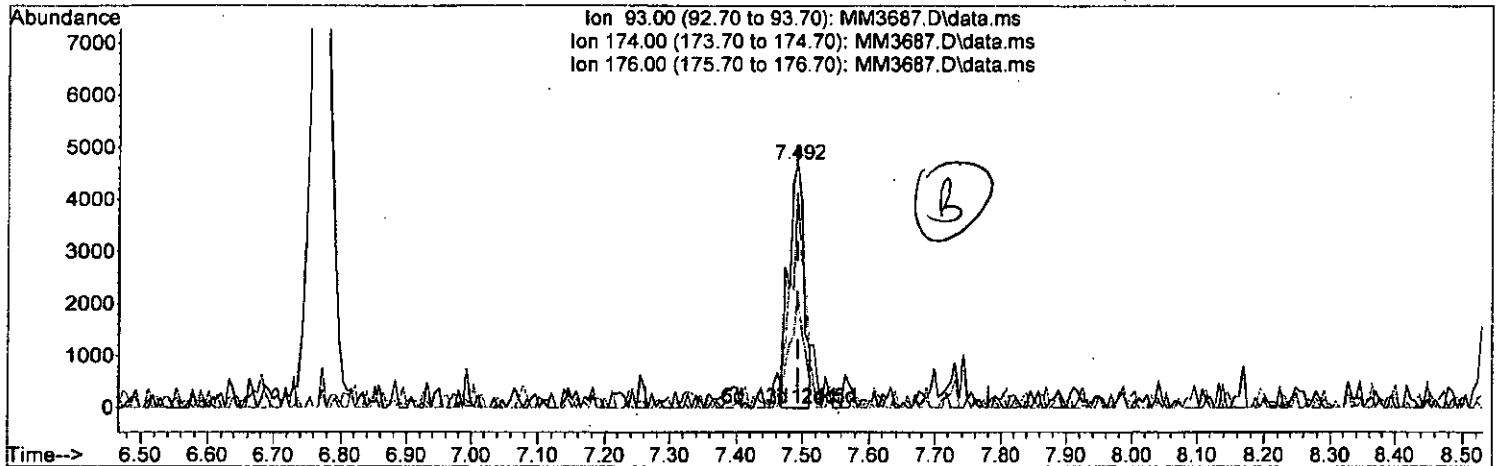
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	64.54#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(57) Dibromomethane

7.492min (-0.000) 1.98 ppb

response 7520

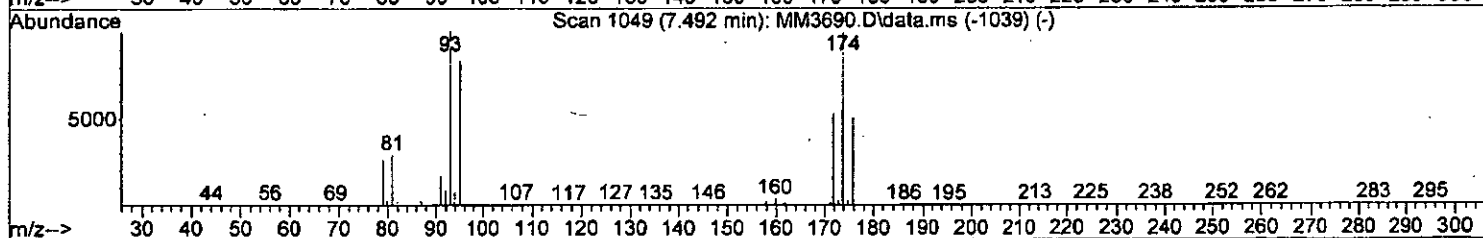
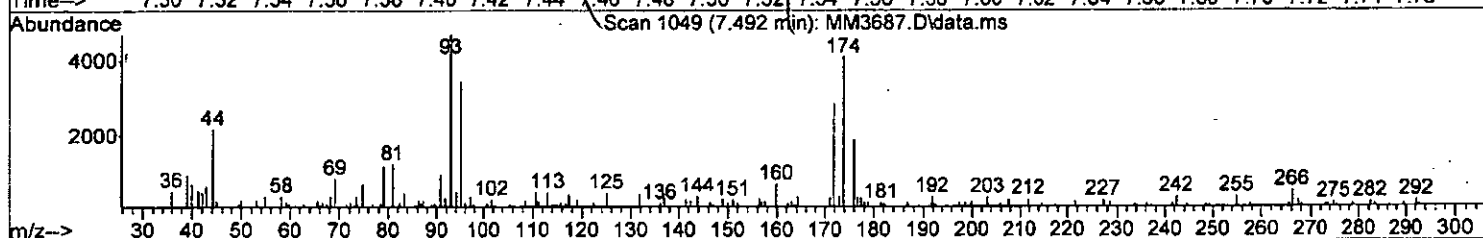
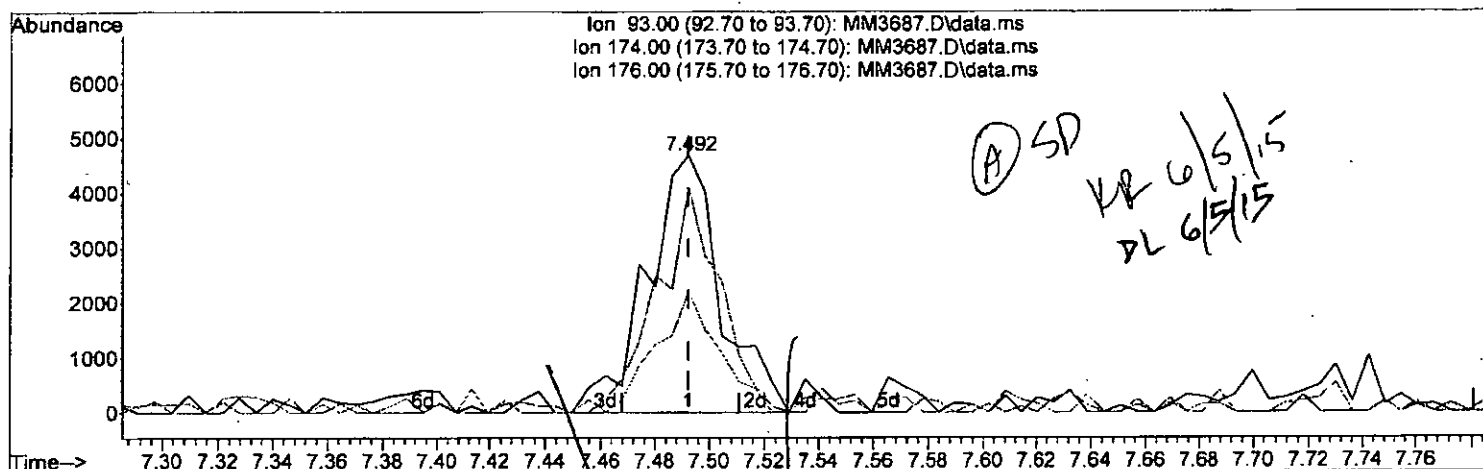
Ion	Exp%	Act%
93.00	100	100
174.00	99.50	87.49
176.00	50.60	46.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3687.D
Acq On : 4 Jun 2015 1:41 pm
Operator : K.Ruest
Sample : 2.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3687.D\data.ms

(57) Dibromomethane

7.492min (-0.000) 2.30 ppb m

response 8741

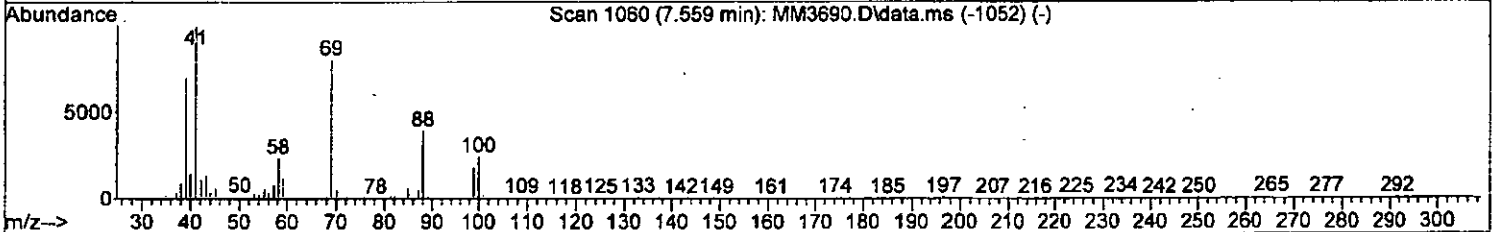
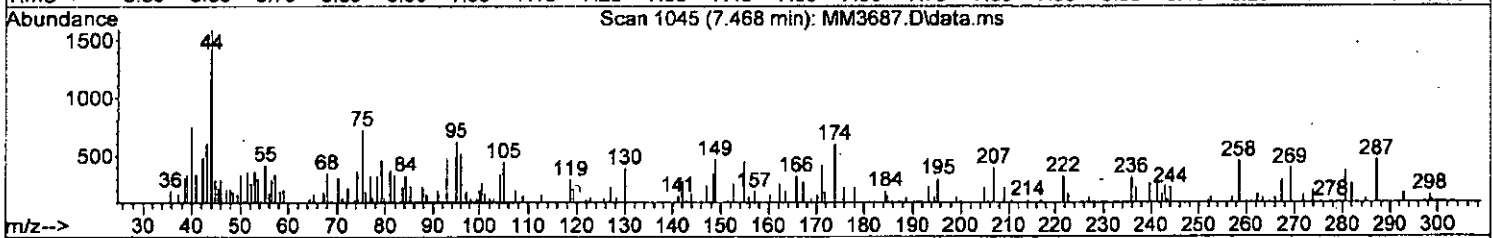
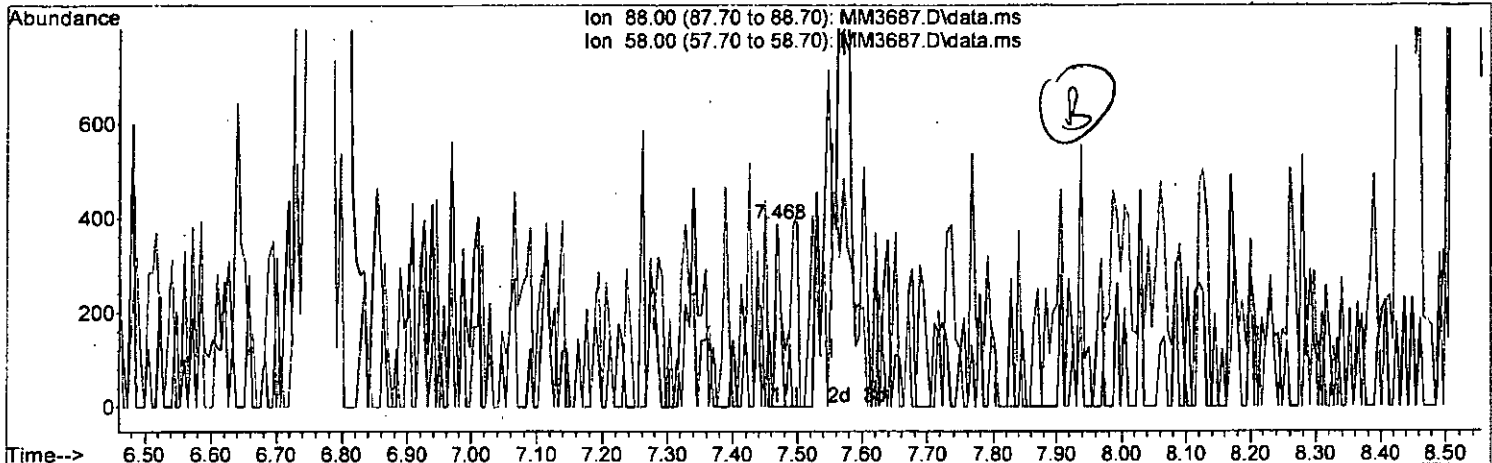
Ion	Exp%	Act%
93.00	100	100
174.00	99.50	87.49
176.00	50.60	39.80
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(58) 1,4-Dioxane

7.468min (-0.085) 5.52 ppb

response 317

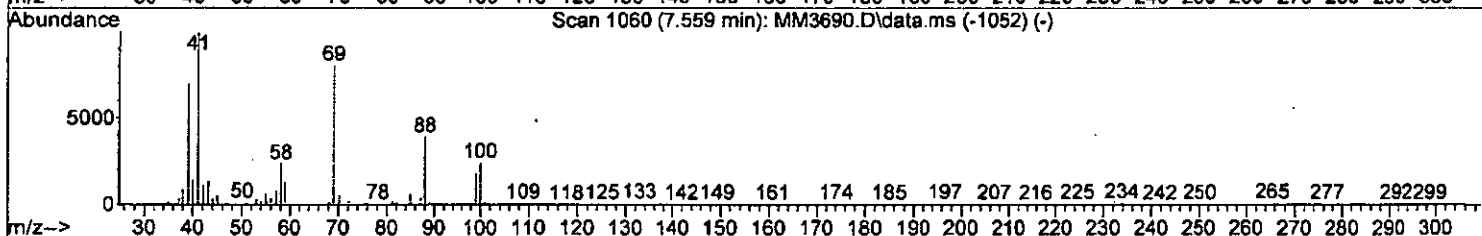
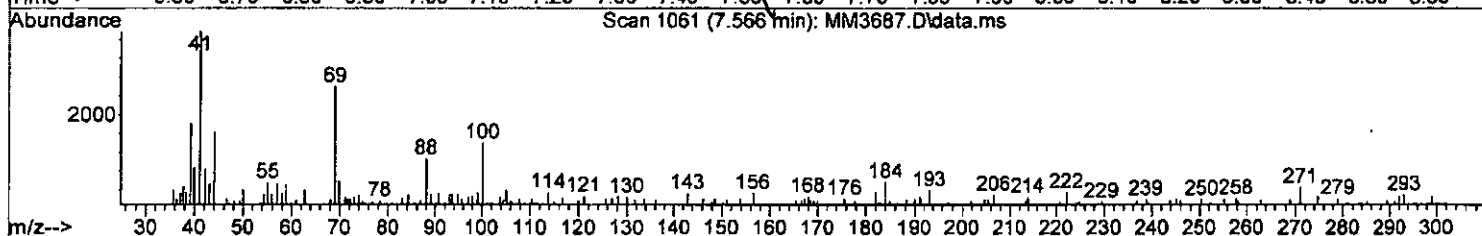
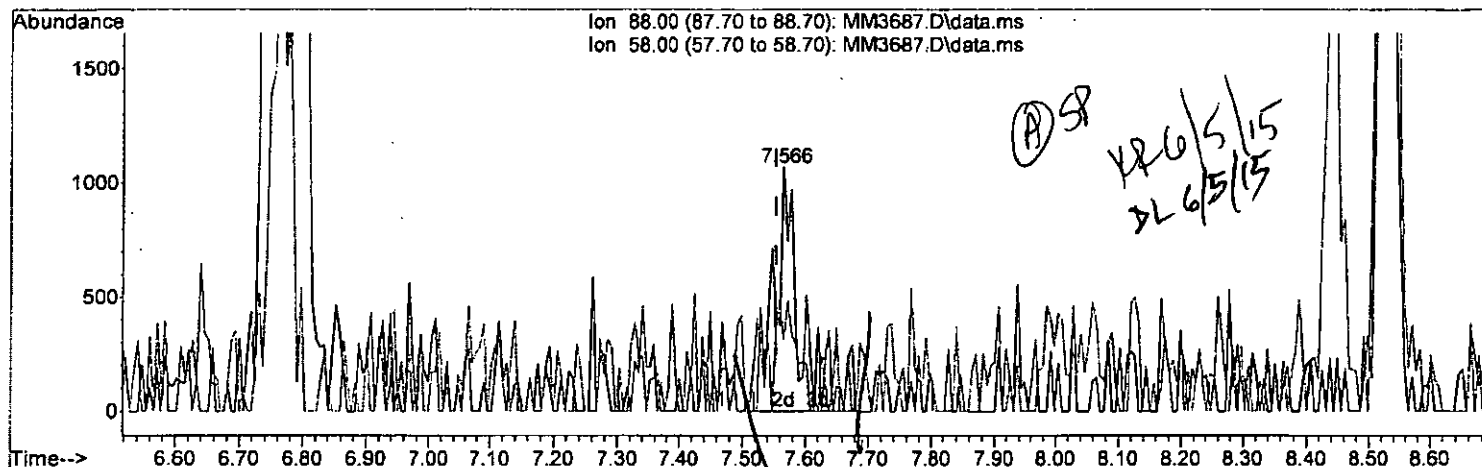
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	48.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:42 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3687.D\data.ms

(58) 1,4-Dioxane

7.566min (+0.012) 53.85 ppb m

response 3093

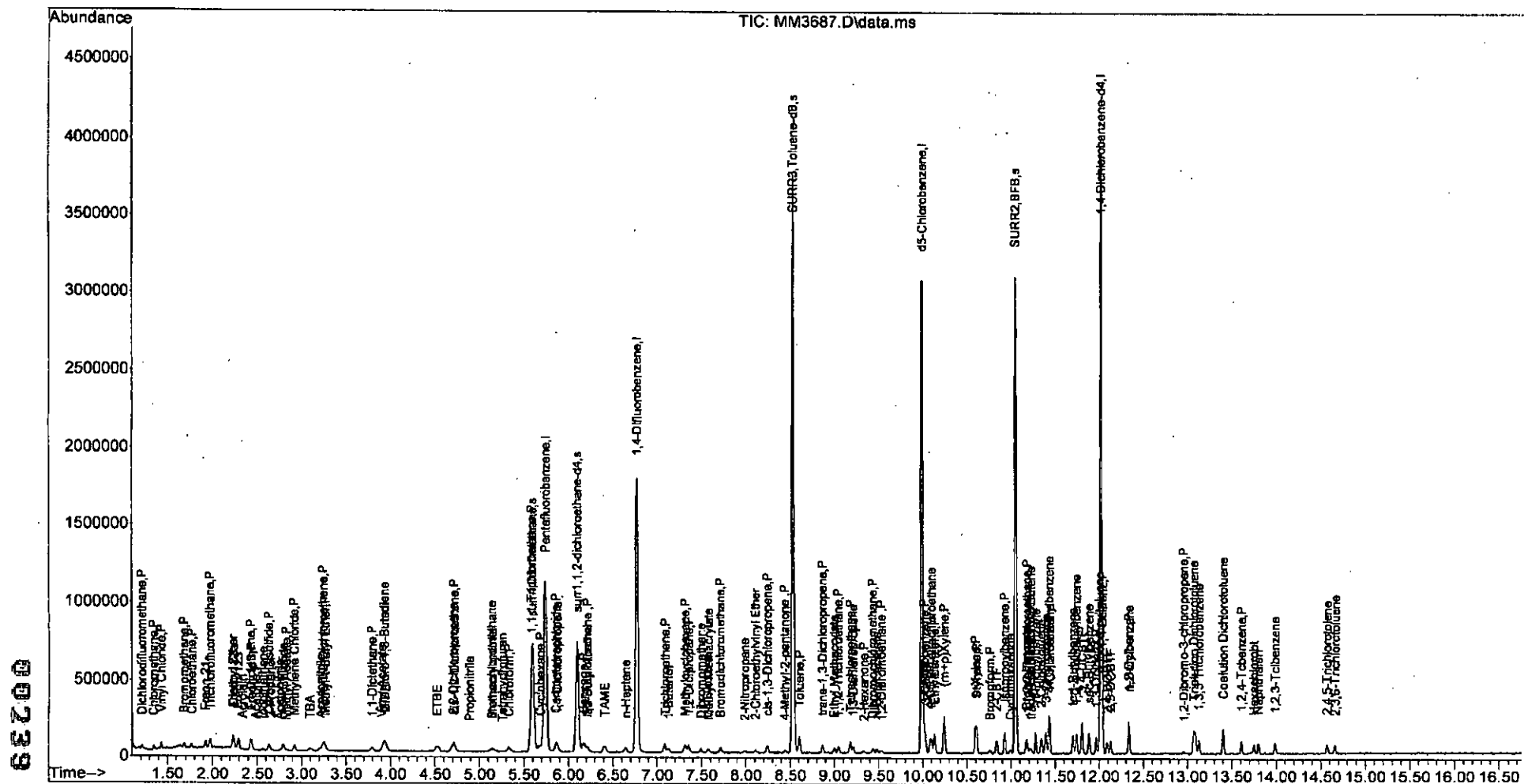
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	29.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3687.D
 Acq On : 4 Jun 2015 1:41 pm
 Operator : K.Ruest
 Sample : 2.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 9 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:18:20 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 13:52:06 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	903035	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.767	114	1480911	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1390447	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	734348	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	583555	72.82	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 145.64%			
48) surr1, 1,2-dichloroetha...	6.097	65	619915	72.42	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 144.84%			
65) SURR3, Toluene-d8	8.529	98	2579355	73.69	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 147.38%			
70) SURR2, BFB	11.047	95	955816	71.87	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 143.74%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.213	85	35763	4.57	ppb	99
3) Chloromethane	1.341	50	34781	4.64	ppb	97
4) Vinyl Chloride	1.427	62	43359	4.61	ppb	100
5) Bromomethane	1.677	94	24177	4.38	ppb	86
6) Chloroethane	1.762	64	28212	4.52	ppb	86
7) Freon 21	1.927	67	76881	4.91	ppb	98
8) Trichlorofluoromethane	1.975	101	68859	4.88	ppb	93
9) Diethyl Ether	2.225	59	30691	4.92	ppb	93
10) Freon 123a	2.231	67	50549	4.99	ppb	95
11) Freon 123	2.292	83	55290	4.76	ppb	96
12) Acrolein	2.335	56	14923	22.89	ppb	84
13) 1,1-Dicethene	2.426	96	30643	4.62	ppb	99
14) Freon 113	2.433	101	33237	5.06	ppb	80
15) Acetone	2.487	43	6787	5.42	ppb	74
16) 2-Propanol	2.652	45	23908	96.08	ppb	94
17) Iodomethane	2.567	142	22334	3.21	ppb	91
18) Carbon Disulfide	2.634	76	101484	4.79	ppb	99
19) Acetonitrile	2.762	40	2967	17.93	ppb	# 60
20) Allyl Chloride	2.792	76	21126	5.29	ppb	90
21) Methyl Acetate	2.835	43	13295	4.82	ppb	96
22) Methylene Chloride	2.920	84	34524	4.89	ppb	93
23) TBA	3.091	59	43315	96.60	ppb	82
24) Acrylonitrile	3.207	53	33064	22.84	ppb	95
25) Methyl-t-Butyl Ether	3.262	73	90130	5.22	ppb	97
26) trans-1,2-Dichloroethene	3.250	96	37103	5.00	ppb	# 81
28) 1,1-Dicethane	3.786	63	59428	4.83	ppb	94
29) Vinyl Acetate	3.908	86	7109	4.84	ppb	# 82
30) DIPE	3.938	45	104783	4.92	ppb	88
31) 2-Chloro-1,3-Butadiene	3.926	53	65768	4.92	ppb	89
32) ETBE	4.530	59	102859	4.84	ppb	93
33) 2,2-Dichloropropane	4.694	77	57020	4.88	ppb	85
34) cis-1,2-Dichloroethene	4.719	96	38343	4.85	ppb	86
35) 2-Butanone	4.780	43	7731m	4.61	ppb	
36) Propionitrile	4.865	54	11111	21.87	ppb	96

1426/5/5

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3688.D

Acq On : 4 Jun 2015 2:11 pm

Operator : K.Ruest

Sample : 5.0ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 13:52:06 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.139	130	21736	4.97	ppb	93
38) Methacrylonitrile	5.158	67	9179	4.74	ppb	99
39) Tetrahydrofuran	5.249	42	7187	6.34	ppb #	62
40) Chloroform	5.322	83	64884	5.02	ppb	99
41) 1,1,1-Trichloroethane	5.597	97	58328	4.68	ppb	95
42) TAME	6.407	73	88705	4.79	ppb	92
44) Cyclohexane	5.676	41	32325	4.82	ppb	96
46) Carbontetrachloride	5.859	121	15848	4.92	ppb	98
47) 1,1-Dichloropropene	5.871	75	50498	4.96	ppb	91
49) Benzene	6.170	78	139137	4.74	ppb	97
50) 1,2-Dichloroethane	6.206	62	45235	4.81	ppb	94
51) Iso-Butyl Alcohol	6.212	43	18767	96.27	ppb	83
52) n-Heptane	6.639	43	29542	4.73	ppb	85
53) 1-Butanol	7.121	56	29459	237.95	ppb	83
54) Trichloroethene	7.084	130	38323	4.84	ppb	88
55) Methylcyclohexane	7.310	55	36947	4.98	ppb	97
56) 1,2-Dichloropropane	7.352	63	31499	4.48	ppb	97
57) Dibromomethane	7.486	93	17823	4.71	ppb #	78
58) 1,4-Dioxane	7.554	88	6062m	105.89	ppb	
59) Methyl Methacrylate	7.572	69	15960	4.58	ppb	84
60) Bromodichloromethane	7.718	83	50944	4.93	ppb	97
61) 2-Nitropropane	7.980	41	9996	7.57	ppb	92
62) 2-Chloroethylvinyl Ether	8.102	63	16958	5.23	ppb	91
63) cis-1,3-Dichloropropene	8.242	75	55801	4.73	ppb	91
64) 4-Methyl-2-pentanone	8.444	43	18877	4.72	ppb	92
66) Toluene	8.602	91	164702	4.89	ppb	96
67) trans-1,3-Dichloropropene	8.864	75	47313	4.69	ppb	94
68) Ethyl Methacrylate	8.998	69	31700	4.33	ppb	89
69) 1,1,2-Trichloroethane	9.047	97	27201	5.00	ppb	90
72) Tetrachloroethene	9.175	164	28244	4.43	ppb	95
73) 2-Hexanone	9.328	43	15720	5.58	ppb	92
74) 1,3-Dichloropropane	9.212	76	47594	5.21	ppb	93
75) Dibromochloromethane	9.431	129	31716	4.61	ppb	96
76) N-Butyl Acetate	9.480	43	35498	4.82	ppb	100
77) 1,2-Dibromoethane	9.529	107	26245	4.87	ppb	83
78) Chlorobenzene	10.016	112	109113	4.82	ppb	95
79) 3-CBTF	10.029	180	52708	4.94	ppb	86
80) 4-CBTF	10.084	180	47757	4.94	ppb	97
81) 1,1,1,2-Tetrachloroethane	10.102	131	35205	4.54	ppb	92
82) Ethylbenzene	10.132	106	59958	4.89	ppb	98
83) (m+p)Xylene	10.242	106	142439	9.54	ppb	93
84) o-Xylene	10.596	106	72406	5.01	ppb	95
85) Styrene	10.608	104	120796	4.87	ppb	98
87) Bromoform	10.760	173	19315	5.14	ppb	81
88) 2-CBTF	10.833	180	56643	5.32	ppb #	84
89) Isopropylbenzene	10.925	105	164870	4.84	ppb	99
90) Cyclohexanone	10.992	55	20460	99.75	ppb	90
91) trans-1,4-Dichloro-2-B...	11.230	53	9324	5.08	ppb	89
92) 1,1,2,2-Tetrachloroethane	11.181	83	29935	4.82	ppb	83
93) Bromobenzene	11.169	156	42857	5.04	ppb	87
94) 1,2,3-Trichloropropane	11.211	110	9443	5.00	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 13:52:06 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	195116	5.09	ppb	97
96) 2-Chlorotoluene	11.339	91	117979	4.99	ppb	98
97) 3-Chlorotoluene	11.394	91	125168m	4.98	ppb	
98) 4-Chlorotoluene	11.431	91	146999	5.03	ppb	97
99) 1,3,5-Trimethylbenzene	11.431	105	144205	4.94	ppb	98
100) tert-Butylbenzene	11.699	119	120497	5.12	ppb	92
101) 1,2,4-Trimethylbenzene	11.736	105	145275	4.93	ppb	96
102) 3,4-DCBTF	11.797	214	30923	4.43	ppb	93
103) sec-Butylbenzene	11.882	105	156302	4.84	ppb	94
104) p-Isopropyltoluene	12.004	119	140137	5.11	ppb	95
105) 1,3-Dclbenz	11.961	146	79189	4.79	ppb	96
106) 1,4-Dclbenz	12.034	146	84265	4.90	ppb	98
107) 2,4-DCBTF	12.089	214	30573	4.97	ppb	90
108) 2,5-DCBTF	12.132	214	34245	4.95	ppb	94
109) n-Butylbenzene	12.333	91	121937	4.95	ppb	96
110) 1,2-Dclbenz	12.339	146	72784	4.71	ppb	93
111) 1,2-Dibromo-3-chloropr...	12.955	157	6253	4.98	ppb	98
112) Trielution Dichlorotol...	13.077	125	195566	15.03	ppb	97
113) 1,3,5 Trichlorobenzene	13.126	180	48806	5.04	ppb	89
114) Coelution Dichlorotoluene	13.400	125	137345	9.86	ppb	97
115) 1,2,4-Tcbenzene	13.613	180	43816	4.94	ppb	92
116) Hexachlorobt	13.747	225	15564	4.56	ppb	93
117) Naphthalen	13.802	128	88621	4.76	ppb	96
118) 1,2,3-Tclbenzene	13.985	180	36657	5.05	ppb	94
119) 2,4,5-Trichlorotoluene	14.570	159	28406m	4.90	ppb	
120) 2,3,6-Trichlorotoluene	14.656	159	25201	5.05	ppb	98

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

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3688.D

Acq On : 4 Jun 2015 2:11 pm

Operator : K.Ruest

Sample : 5.0ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 10 Sample Multiplier: 1

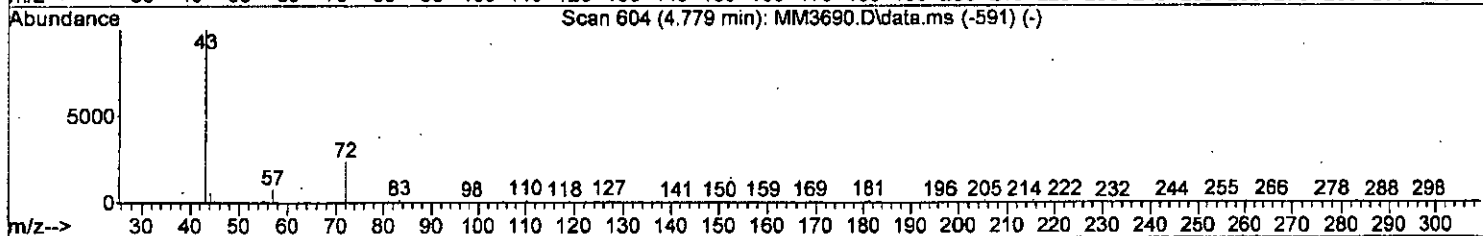
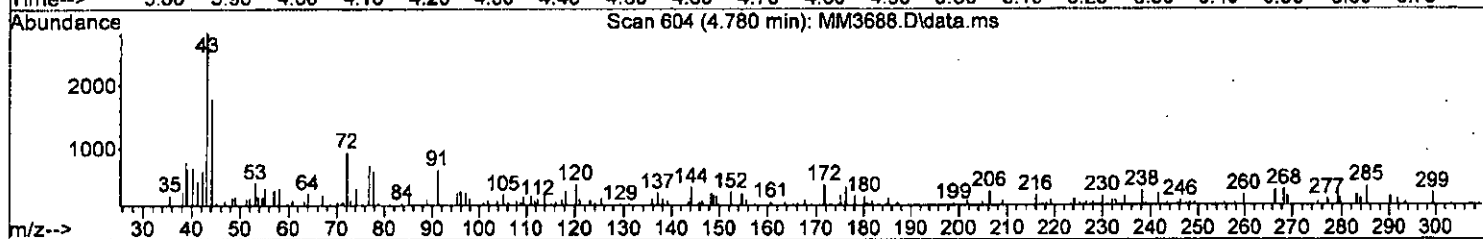
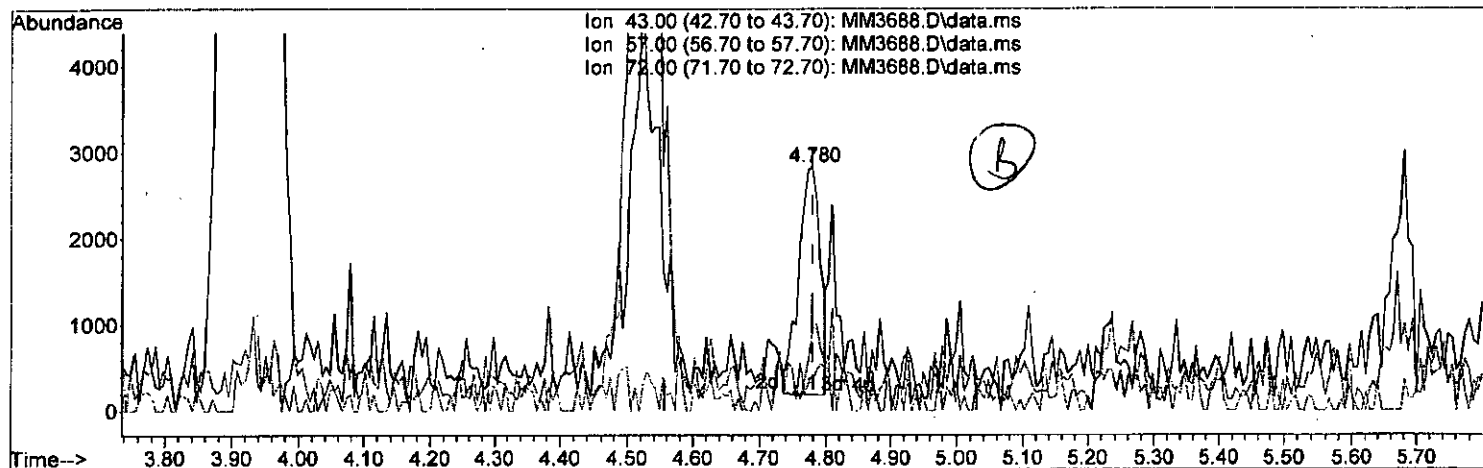
Quant Time: Jun 05 08:47:47 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration



TIC: MM3688.D\data.ms

(35) 2-Butanone (P)

4.780min (+0.000) 3.53 ppb

response 5934

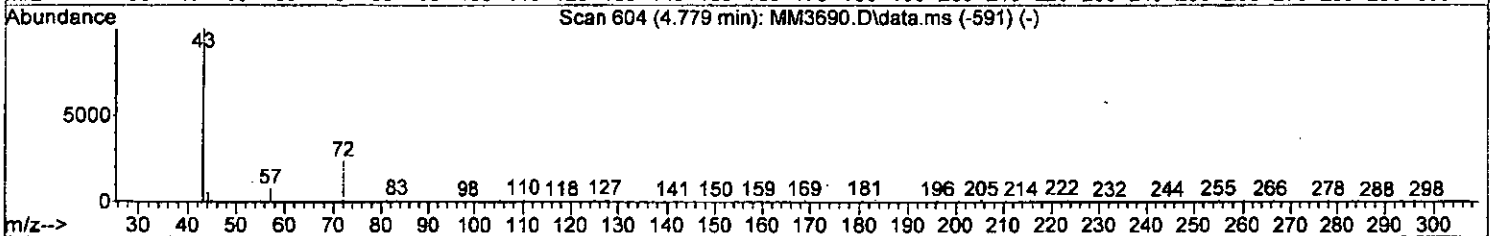
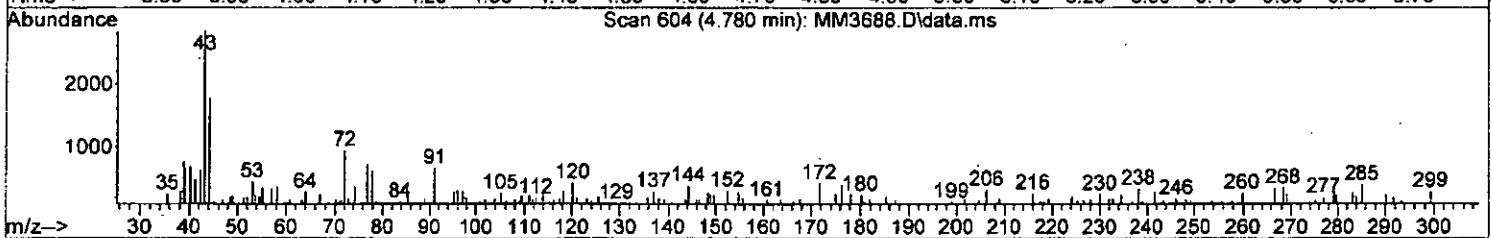
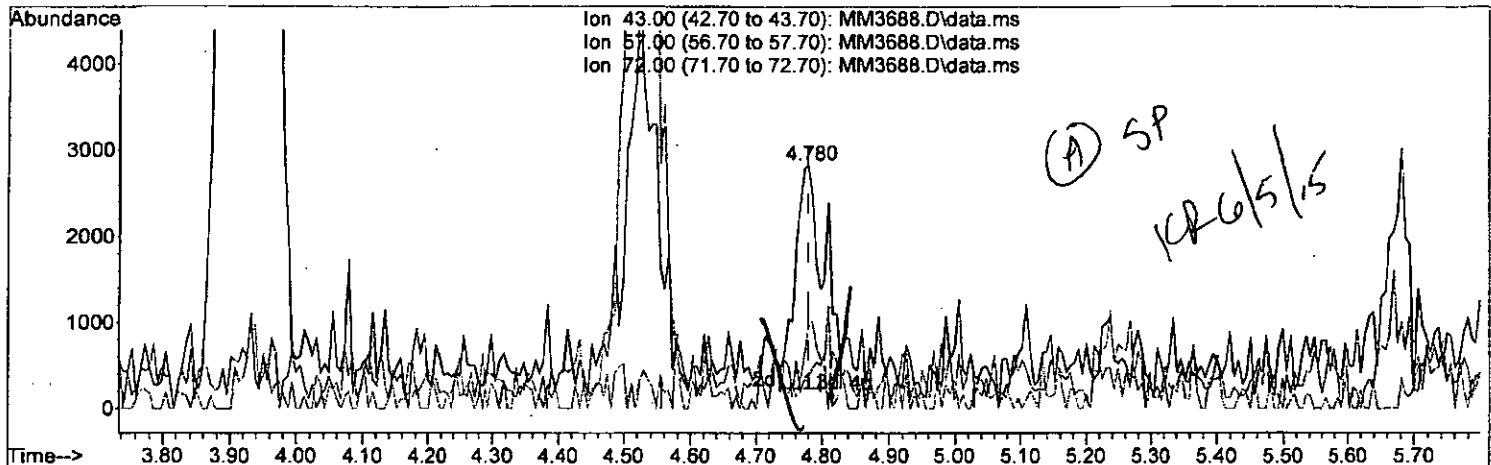
Ion	Exp%	Act%
43.00	100	100
57.00	8.30	11.87
72.00	28.90	33.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:47 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(35) 2-Butanone (P)

4.780min (+0.000) 4.61 ppb m

response 7731

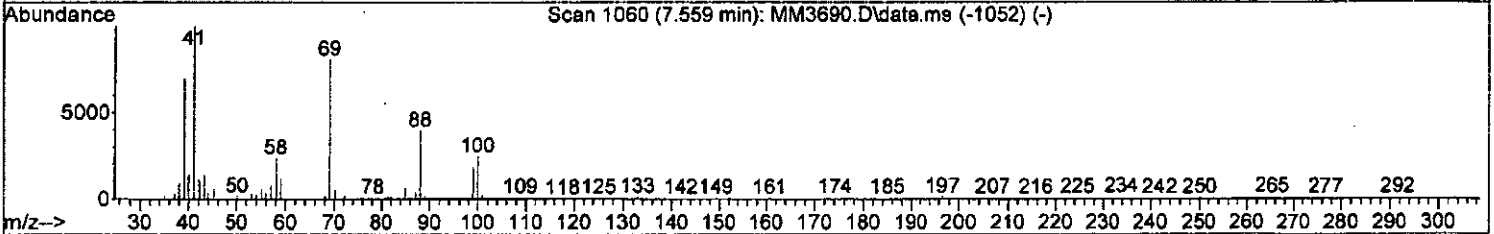
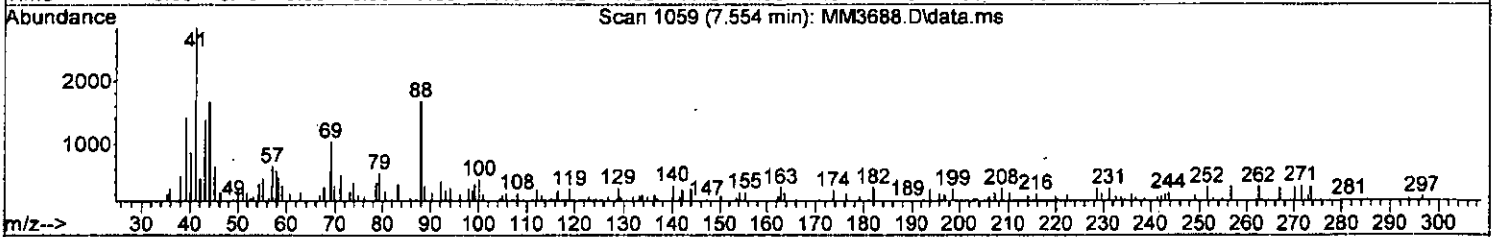
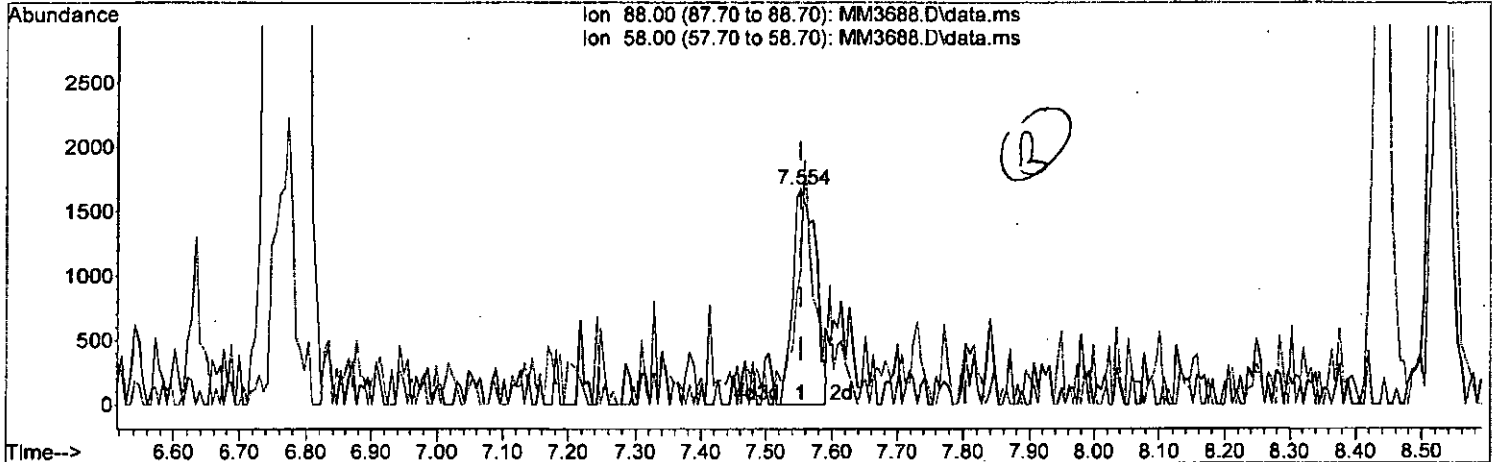
Ion	Exp%	Act%
43.00	100	100
57.00	8.30	11.87
72.00	28.90	33.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:47 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 71.99 ppb

response 4121

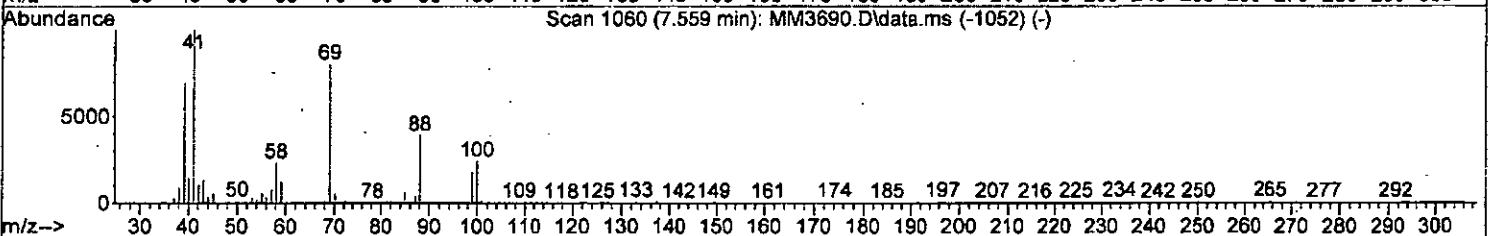
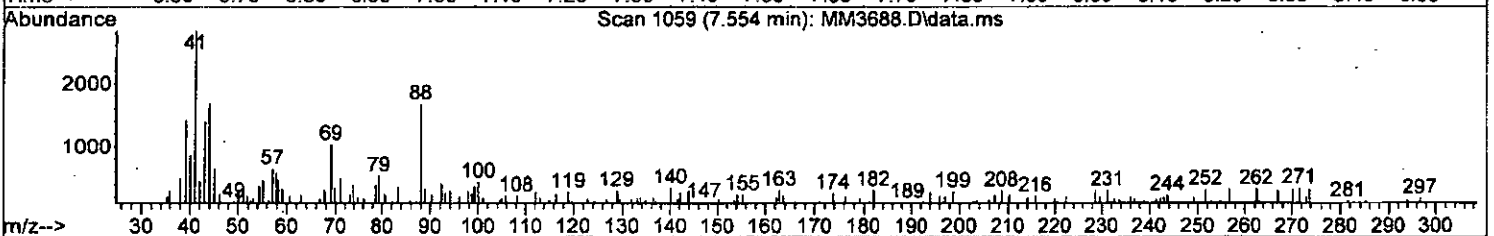
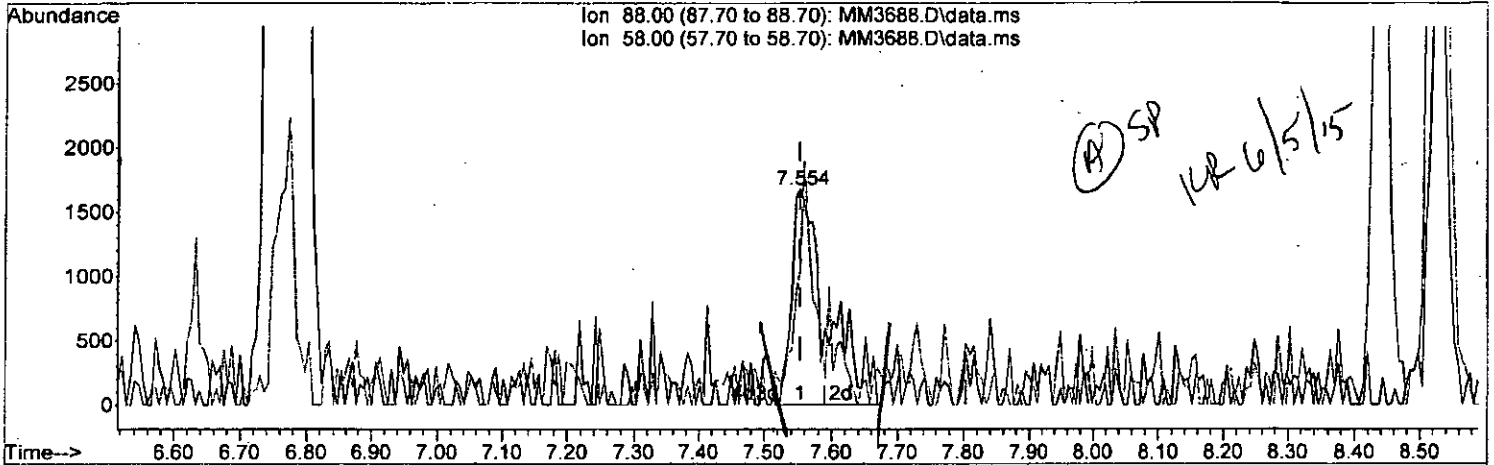
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	62.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:47 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(58) 1,4-Dioxane

7.554min (+0.000) 105.89 ppb m

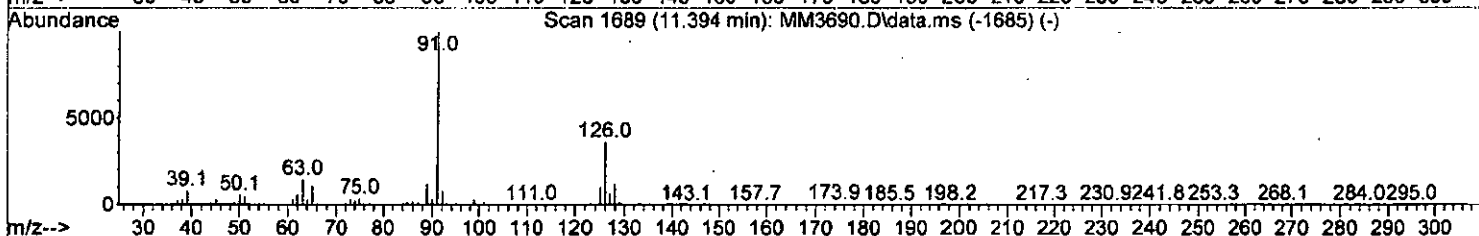
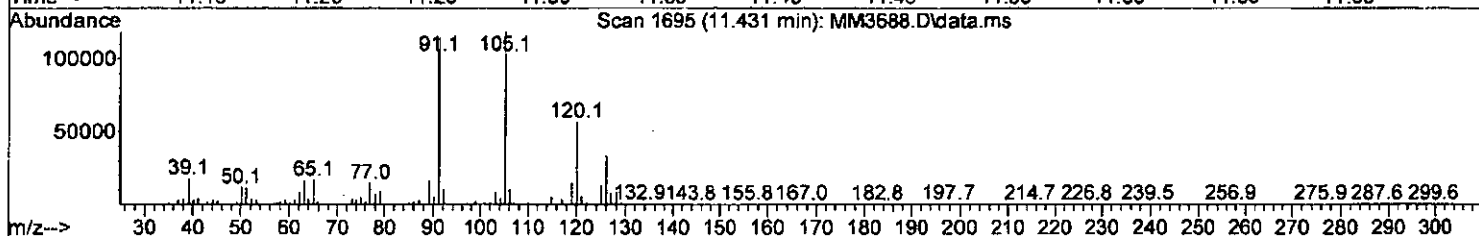
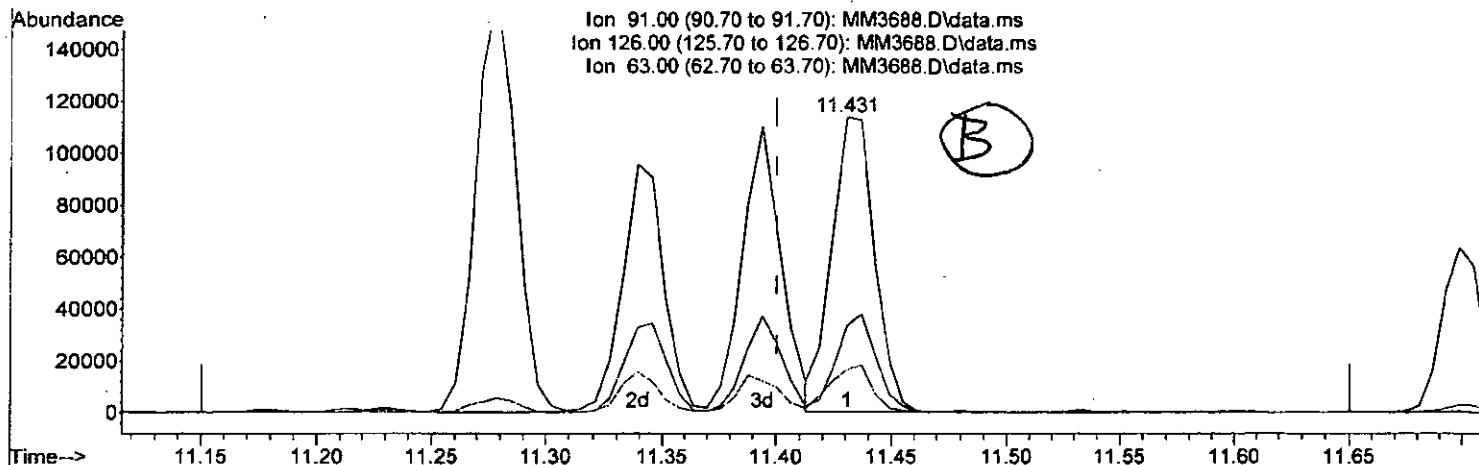
response 6062

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	34.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(97) 3-Chlorotoluene

11.431min (+0.031) 5.82 ppb

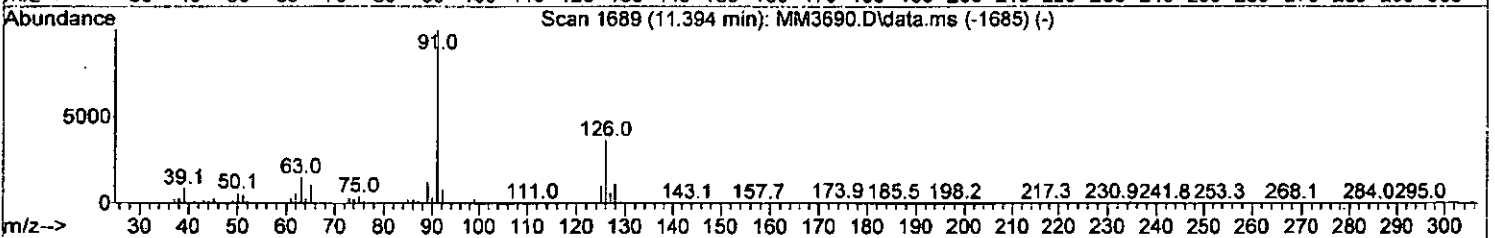
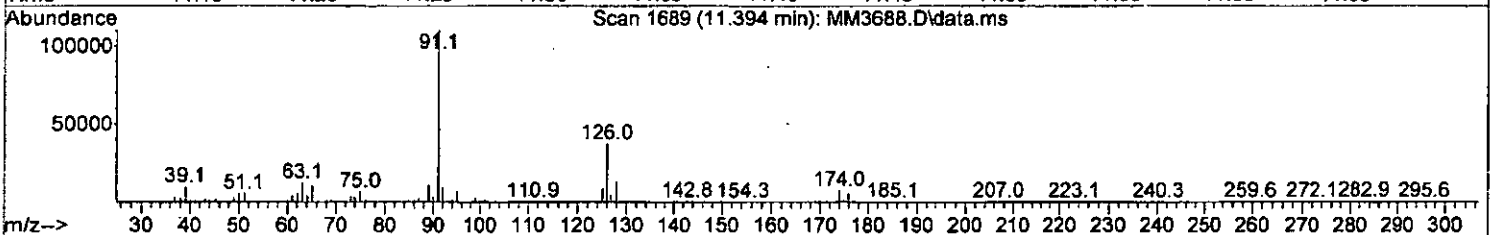
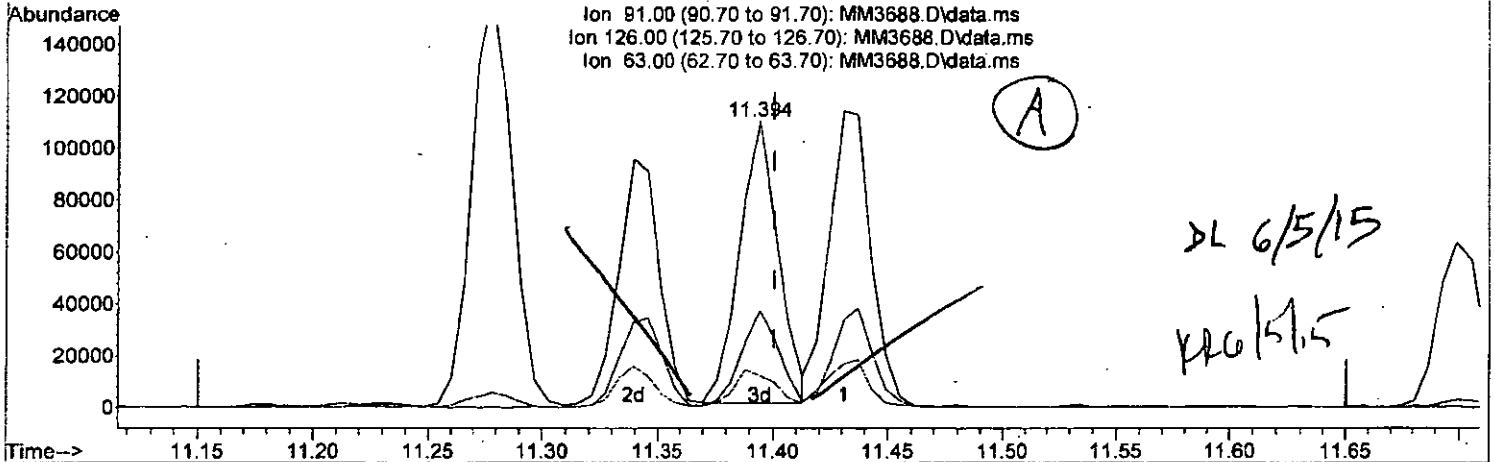
response 146332

Ion	Exp%	Act%
91.00	100	100
126.00	36.30	29.46
63.00	14.60	14.62
0.00	0.00	0.00

quantitation report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(97) 3-Chlorotoluene

11.394min (-0.006) 4.98 ppb m

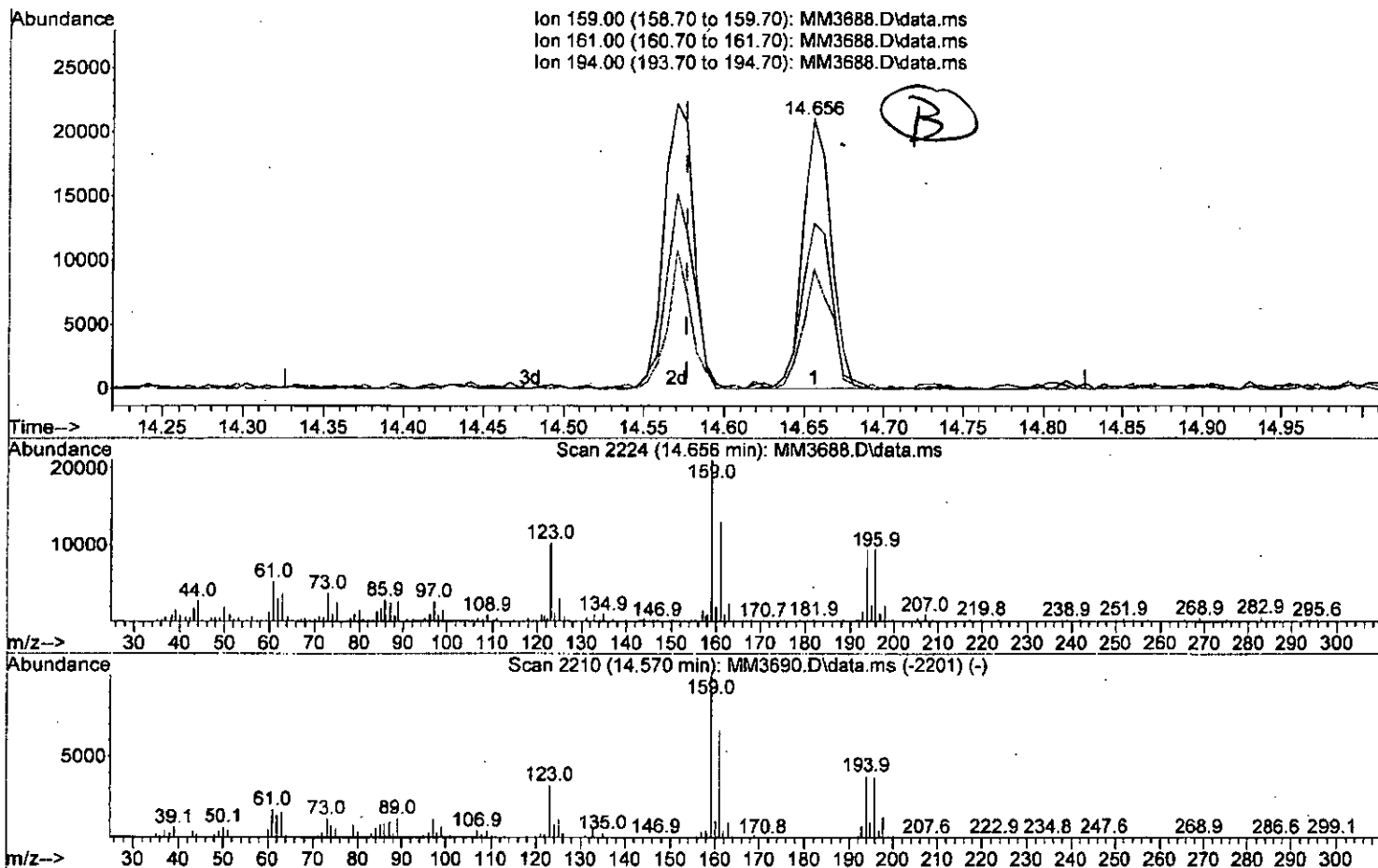
response 125168

Ion	Exp%	Act%
91.00	100	100
126.00	36.30	33.81
63.00	14.60	11.17#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3688.D
Acq On : 4 Jun 2015 2:11 pm
Operator : K.Ruest
Sample : 5.0ppb
Misc : 8260 WATER ICAL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3688.D\data.ms

(119) 2,4,5-Trichlorotoluene

14.656min (+0.079) 4.34 ppb

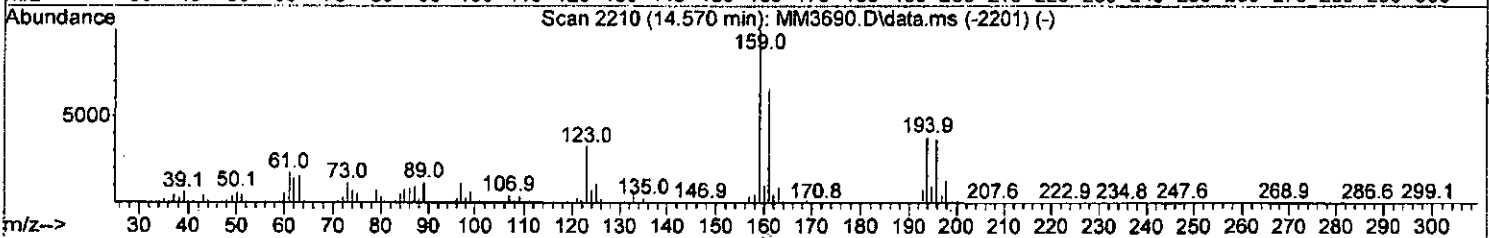
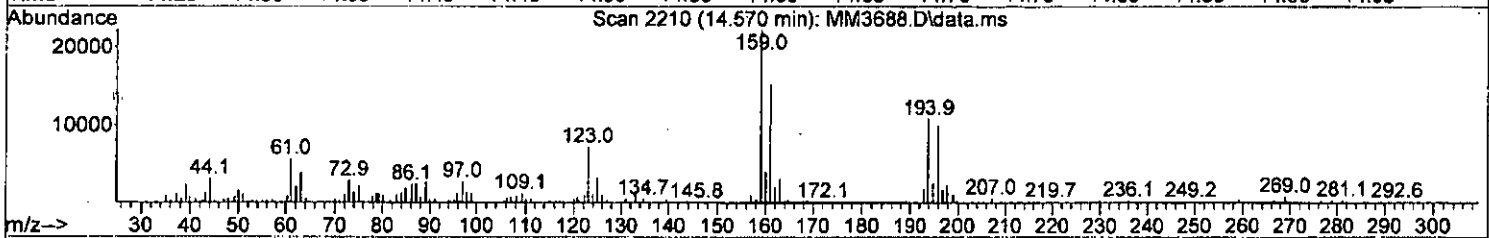
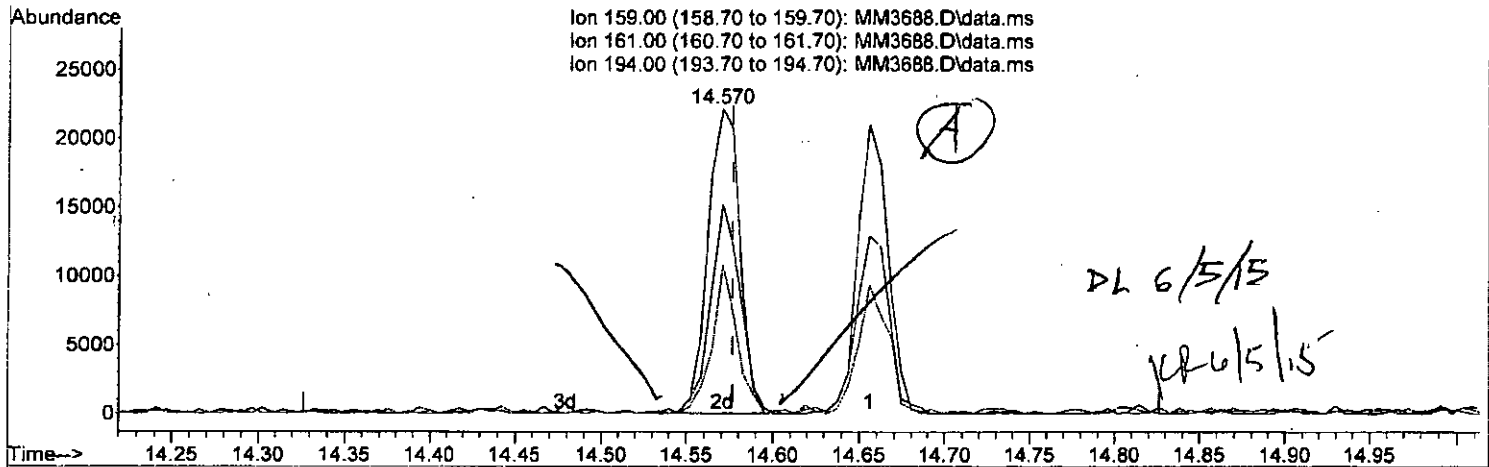
response 25201

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	61.41
194.00	38.20	44.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3688.D
 Acq On : 4 Jun 2015 2:11 pm
 Operator : K.Ruest
 Sample : 5.0ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 09:20:30 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3688.D\data.ms

(119) 2,4,5-Trichlorotoluene

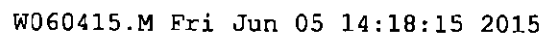
14.570min (-0.006) 4.90 ppb m

response 28406

Ion	Exp%	Act%
159.00	100	100
161.00	66.50	68.61
194.00	38.20	48.64#
0.00	0.00	0.00

Quant Time: Jun 05 13:52:06 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration

Page: 4



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3689.D
 Acq On : 4 Jun 2015 2:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:23:02 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.737	168	929690	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1546739	50.00	ppb	0.00
71) d5-Chlorobenzene	9.986	117	1435928	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	770648	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	792102	94.64	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 189.28%#			
48) surr1, 1,2-dichloroetha...	6.096	65	868113	97.10	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 194.20%#			
65) SURR3, Toluene-d8	8.529	98	3531662	96.61	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 193.22%#			
70) SURR2, BFB	11.047	95	1346632	96.95	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 193.90%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	170796	21.19	ppb	94
3) Chloromethane	1.341	50	157364	20.40	ppb	99
4) Vinyl Chloride	1.427	62	201504	20.80	ppb	97
5) Bromomethane	1.683	94	105091	18.49	ppb	85
6) Chloroethane	1.762	64	132847	20.67	ppb	94
7) Freon 21	1.920	67	326092	20.23	ppb	100
8) Trichlorofluoromethane	1.975	101	297743	20.50	ppb	99
9) Diethyl Ether	2.225	59	125926	19.61	ppb	95
10) Freon 123a	2.231	67	204165	19.59	ppb	95
11) Freon 123	2.292	83	239995	20.05	ppb	99
12) Acrolein	2.335	56	70281	104.72	ppb	90
13) 1,1-Dicethene	2.426	96	135770	19.86	ppb	98
14) Freon 113	2.439	101	139561	20.62	ppb	95
15) Acetone	2.487	43	26215	20.33	ppb	98
16) 2-Propanol	2.652	45	104918	409.57	ppb	94
17) Iodomethane	2.573	142	146483	20.45	ppb	98
18) Carbon Disulfide	2.634	76	453758	20.79	ppb	98
19) Acetonitrile	2.756	40	16551m	97.14	ppb	
20) Allyl Chloride	2.792	76	88378	21.48	ppb	# 85
21) Methyl Acetate	2.829	43	54738	19.29	ppb	93
22) Methylene Chloride	2.920	84	144137	19.84	ppb	93
23) TBA	3.091	59	187585	406.35	ppb	98
24) Acrylonitrile	3.207	53	145259	97.45	ppb	94
25) Methyl-t-Butyl Ether	3.262	73	359709	20.25	ppb	94
26) trans-1,2-Dichloroethene	3.237	96	153486	20.09	ppb	95
28) 1,1-Dicethane	3.786	63	253102	20.00	ppb	95
29) Vinyl Acetate	3.896	86	30852	20.39	ppb	# 78
30) DIPE	3.944	45	426472	19.43	ppb	97
31) 2-Chloro-1,3-Butadiene	3.920	53	291286	21.18	ppb	96
32) ETBE	4.524	59	425811	19.47	ppb	98
33) 2,2-Dichloropropane	4.706	77	250850	20.86	ppb	98
34) cis-1,2-Dichloroethene	4.713	96	160290	19.68	ppb	100
35) 2-Butanone	4.774	43	36575	21.16	ppb	93
36) Propionitrile	4.871	54	53212	101.72	ppb	95

YR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3689.D

Acq On : 4 Jun 2015 2:42 pm

Operator : K.Ruest

Sample : 20ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.139	130	90043	20.00	ppb	93
38) Methacrylonitrile	5.158	67	38606m	19.37	ppb	
39) Tetrahydrofuran	5.243	42	23147	19.83	ppb	95
40) Chloroform	5.328	83	269461	20.26	ppb	100
41) 1,1,1-Trichloroethane	5.590	97	250680	19.52	ppb	96
42) TAME	6.407	73	375864	19.71	ppb	96
44) Cyclohexane	5.670	41	134782	19.23	ppb	87
46) Carbontetrachloride	5.859	121	68254	20.28	ppb	94
47) 1,1-Dichloropropene	5.871	75	206416	19.39	ppb	93
49) Benzene	6.170	78	625732	20.41	ppb	98
50) 1,2-Dichloroethane	6.212	62	192271	19.57	ppb	96
51) Iso-Butyl Alcohol	6.206	43	81609	400.80	ppb	85
52) n-Heptane	6.639	43	124398	19.05	ppb	98
53) 1-Butanol	7.121	56	126414	977.63	ppb	99
54) Trichloroethene	7.084	130	171162	20.68	ppb	92
55) Methylcyclohexane	7.310	55	158811	20.51	ppb	95
56) 1,2-Dichloropropane	7.352	63	144909	19.74	ppb	94
57) Dibromomethane	7.493	93	75903	19.22	ppb	93
58) 1,4-Dioxane	7.553	88	24571	410.95	ppb	91
59) Methyl Methacrylate	7.578	69	73336	20.17	ppb	85
60) Bromodichloromethane	7.712	83	212979	19.73	ppb	97
61) 2-Nitropropane	7.986	41	55014	39.91	ppb	93
62) 2-Chloroethylvinyl Ether	8.108	63	70247	20.76	ppb	95
63) cis-1,3-Dichloropropene	8.242	75	245033	19.89	ppb	98
64) 4-Methyl-2-pentanone	8.437	43	85832	20.53	ppb	96
66) Toluene	8.602	91	718864	20.44	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	212270	20.14	ppb	96
68) Ethyl Methacrylate	8.998	69	151688	19.83	ppb	95
69) 1,1,2-Trichloroethane	9.047	97	112646	19.83	ppb	91
72) Tetrachloroethene	9.181	164	137427	20.87	ppb	95
73) 2-Hexanone	9.328	43	61435	21.13	ppb	98
74) 1,3-Dichloropropane	9.212	76	193150	20.49	ppb	98
75) Dibromochloromethane	9.431	129	143065	20.15	ppb	94
76) N-Butyl Acetate	9.480	43	153359	20.15	ppb	97
77) 1,2-Dibromoethane	9.529	107	109971	19.75	ppb	99
78) Chlorobenzene	10.016	112	476362	20.38	ppb	98
79) 3-CBTF	10.029	180	221235	20.07	ppb	95
80) 4-CBTF	10.083	180	204043	20.44	ppb	97
81) 1,1,1,2-Tetrachloroethane	10.102	131	159351	19.91	ppb	97
82) Ethylbenzene	10.132	106	267443	21.14	ppb	93
83) (m+p)Xylene	10.242	106	634475	41.14	ppb	99
84) o-Xylene	10.596	106	308750	20.67	ppb	94
85) Styrene	10.608	104	519775	20.28	ppb	98
87) Bromoform	10.760	173	80842	20.49	ppb	96
88) 2-CBTF	10.833	180	219429	19.63	ppb	96
89) Isopropylbenzene	10.925	105	759256	21.22	ppb	100
90) Cyclohexanone	10.986	55	86617	402.41	ppb	90
91) trans-1,4-Dichloro-2-B...	11.230	53	37478	19.46	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.181	83	133250	20.46	ppb	97
93) Bromobenzene	11.169	156	186908	20.95	ppb	# 81
94) 1,2,3-Trichloropropane	11.211	110	38966	19.67	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3689.D

Acq On : 4 Jun 2015 2:42 pm

Operator : K.Ruest

Sample : 20ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 09:23:02 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	878649	21.82	ppb	98
96) 2-Chlorotoluene	11.339	91	528349	21.29	ppb	98
97) 3-Chlorotoluene	11.394	91	549104	20.82	ppb	98
98) 4-Chlorotoluene	11.437	91	642524	20.95	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	650177	21.21	ppb	99
100) tert-Butylbenzene	11.699	119	519096	21.02	ppb	98
101) 1,2,4-Trimethylbenzene	11.736	105	662783	21.42	ppb	95
102) 3,4-DCBTF	11.803	214	146340	19.99	ppb	94
103) sec-Butylbenzene	11.882	105	714333	21.10	ppb	97
104) p-Isopropyltoluene	12.004	119	629085	21.87	ppb	98
105) 1,3-Dclbenz	11.961	146	366251	21.12	ppb	94
106) 1,4-Dclbenz	12.040	146	376902	20.87	ppb	97
107) 2,4-DCBTF	12.089	214	135784	21.02	ppb	97
108) 2,5-DCBTF	12.126	214	148243	20.41	ppb	96
109) n-Butylbenzene	12.333	91	543477	21.03	ppb	98
110) 1,2-Dclbenz	12.339	146	333376	20.57	ppb	96
111) 1,2-Dibromo-3-chloropr...	12.955	157	25320	19.21	ppb	89
112) Trielution Dichlorotol...	13.077	125	849439	62.23	ppb	98
113) 1,3,5 Trichlorobenzene	13.132	180	219038	21.55	ppb	94
114) Coelution Dichlorotoluene	13.400	125	610518	41.75	ppb	97
115) 1,2,4-Tclbenzene	13.613	180	187481	20.14	ppb	99
116) Hexachlorobt	13.747	225	71751	20.02	ppb	93
117) Naphthalen	13.802	128	398196	20.38	ppb	99
118) 1,2,3-Tclbenzene	13.985	180	157900	20.74	ppb	92
119) 2,4,5-Trichlorotoluene	14.570	159	126925	20.85	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	104855	20.04	ppb	97

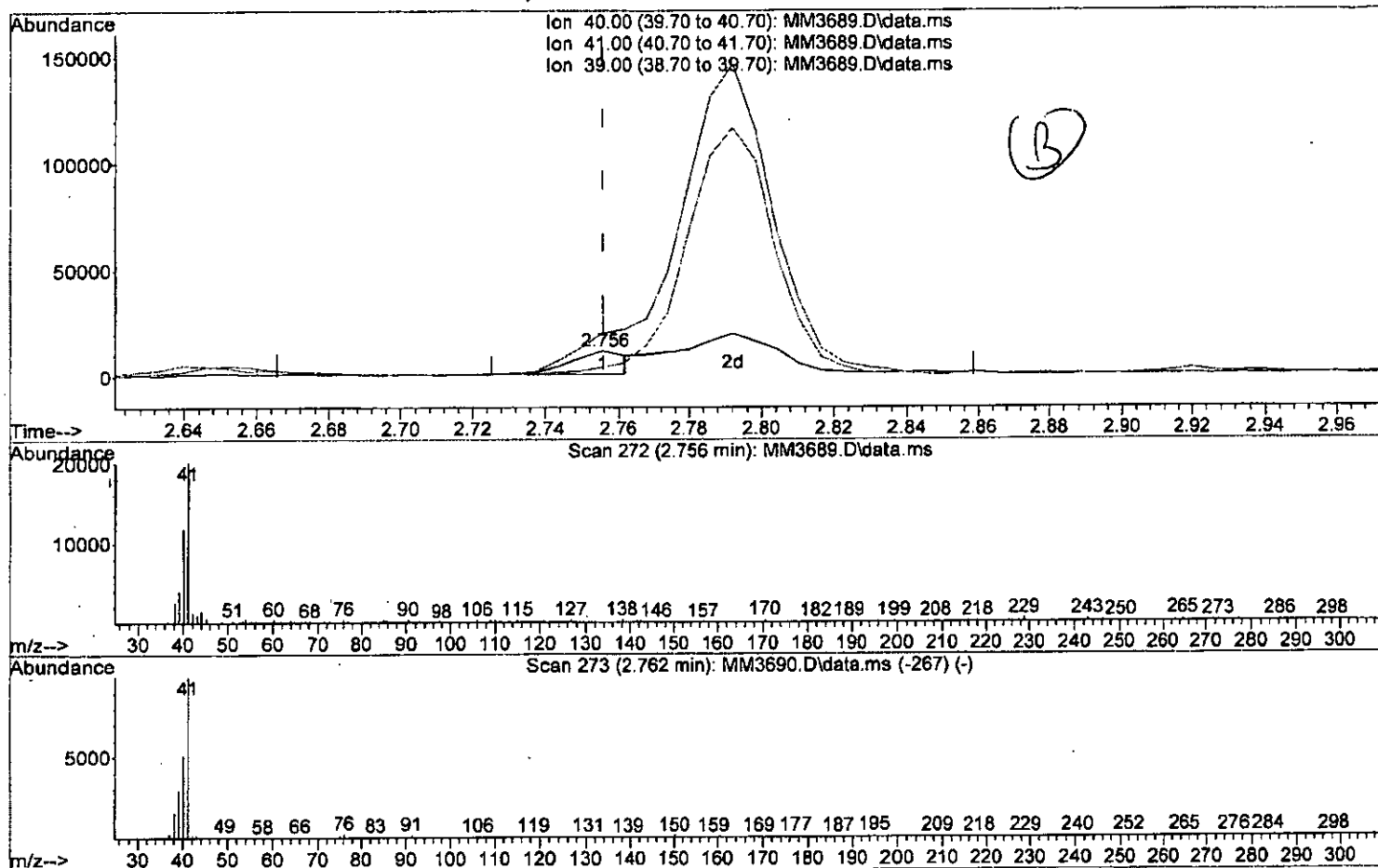
(#)=qualifier out of range (m)=manual integration (+)=signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3689.D
 Acq On : 4 Jun 2015 2:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3689.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 67.46 ppb

response 11494

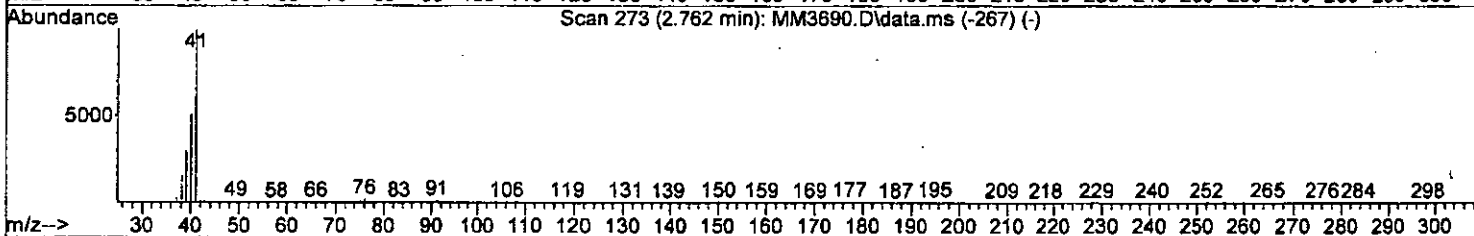
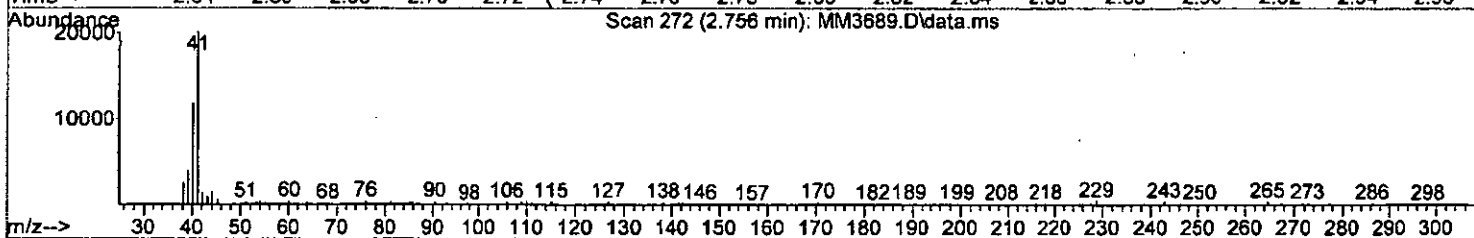
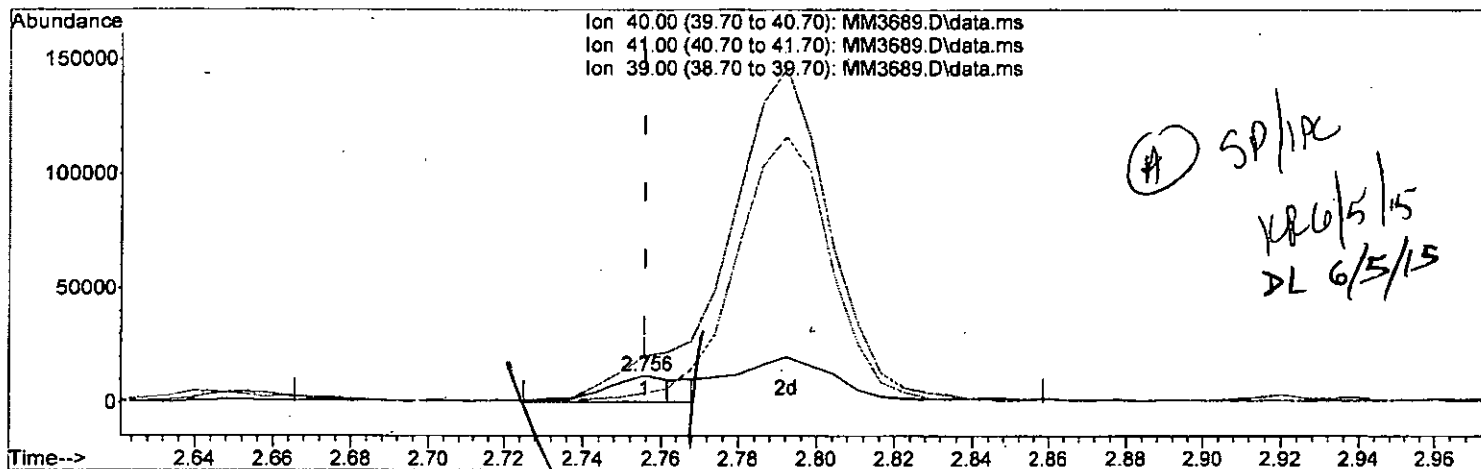
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	170.75#
39.00	58.40	34.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3689.D
 Acq On : 4 Jun 2015 2:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12.

Quant Time: Jun 05 08:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3689.D\data.ms

(19) Acetonitrile

2.756min (-0.000) 97.14 ppb m

response 16551

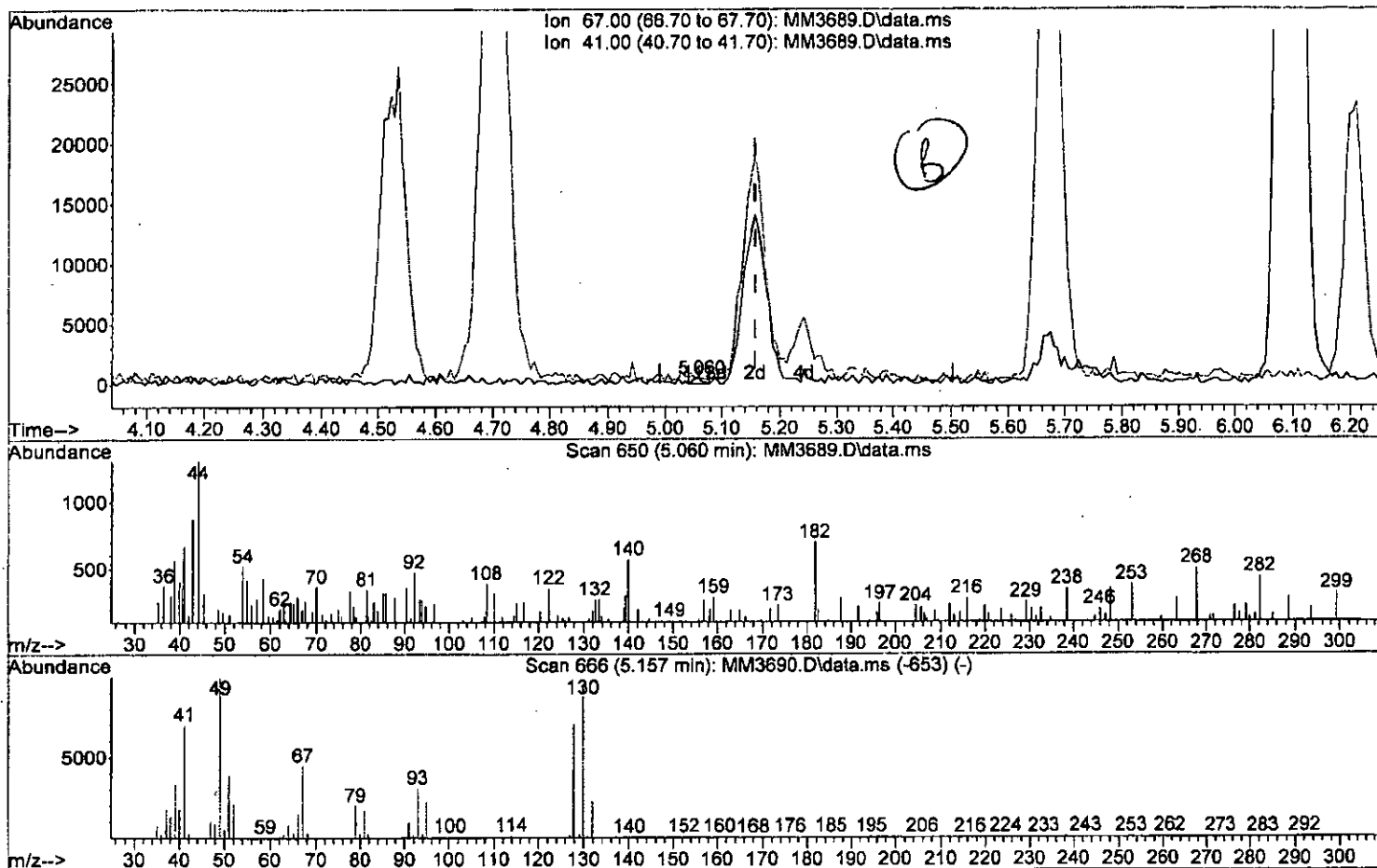
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	170.75#
39.00	58.40	34.18#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3689.D
Acq On : 4 Jun 2015 2:42 pm
Operator : K.Ruest
Sample : 20ppb
Misc : 8260 WATER ICAL
ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



TIC: MM3689.D\data.ms

(38) Methacrylonitrile

5.060min (-0.098) 0.28 ppb

response 510

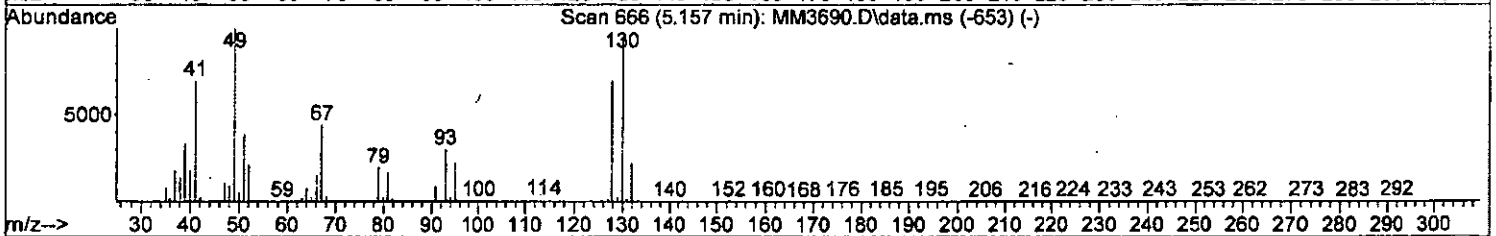
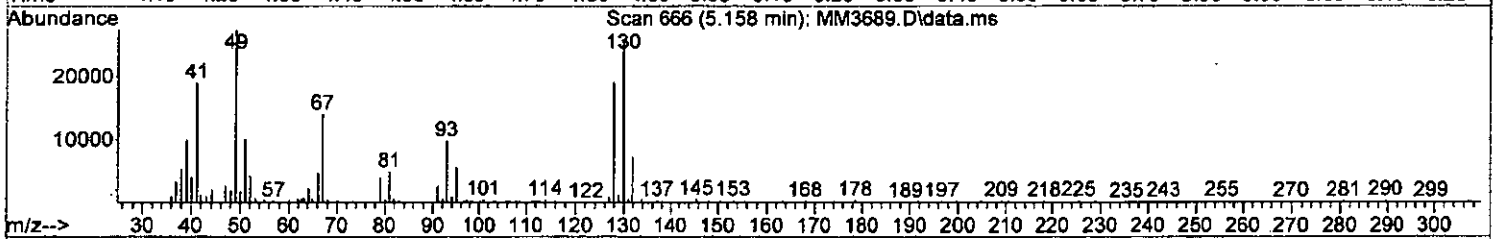
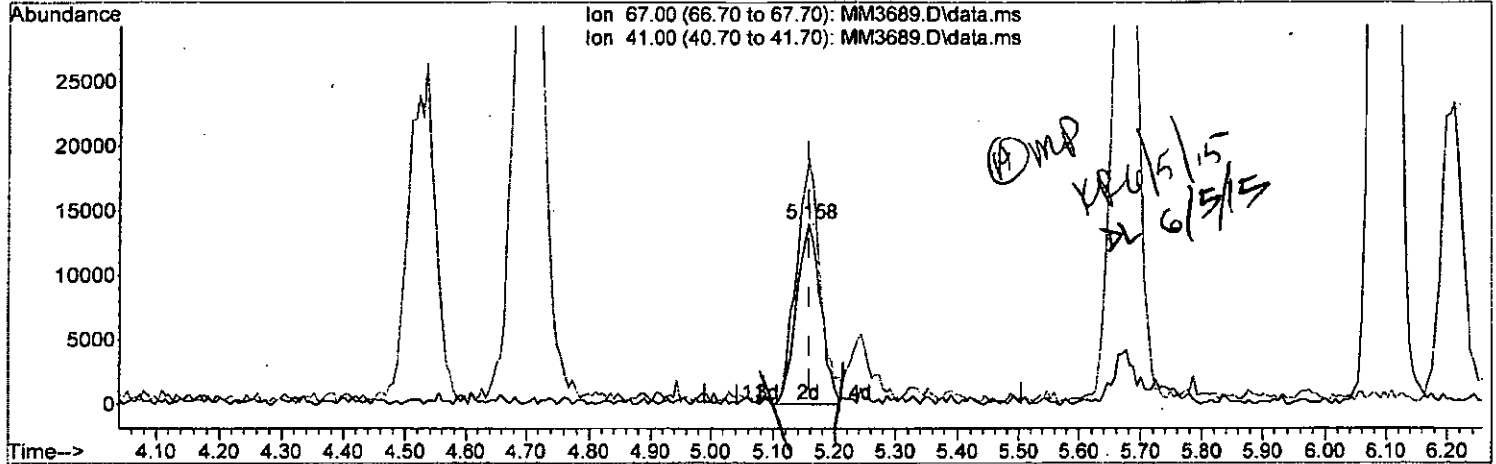
Ion	Exp%	Act%
67.00	100	100
41.00	159.00	147.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3689.D
 Acq On : 4 Jun 2015 2:42 pm
 Operator : K.Ruest
 Sample : 20ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 11 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3689.D\data.ms

(38) Methacrylonitrile

5.158min (-0.000) 19.37 ppb m

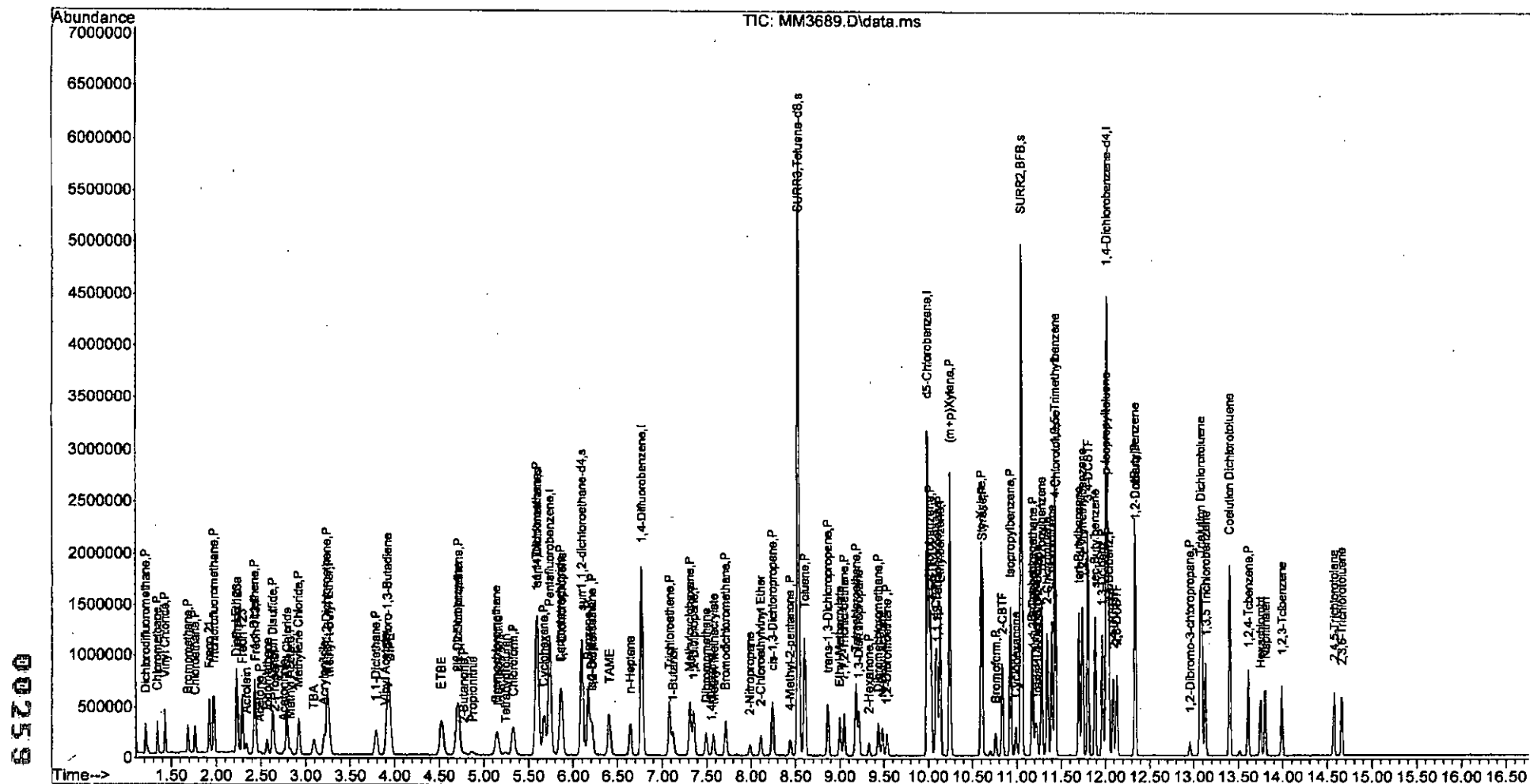
response 38606

Ion	Exp%	Act%
67.00	100	100
41.00	159.00	134.94#
0.00	0.00	0.00
0.00	0.00	0.00

(QT Reviewed)

Inst : MSVOA-12

Quant Time: Jun 05 09:23:02 2015
Quant Method : I:\ACQDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3690.D
 Acq On : 4 Jun 2015 3:12 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:25:10 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	943892	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1567087	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1461862	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	811080	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrfilmethane	5.596	113	459892	54.23	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 108.46%			
48) surr1,1,2-dichloroetha...	6.096	65	491843	54.30	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 108.60%			
65) SURR3,Toluene-d8	8.529	98	1991505	53.77	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 107.54%			
70) SURR2,BFB	11.053	95	779481	55.39	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 110.78%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	413334	50.50	ppb	100
3) Chloromethane	1.347	50	383152	48.92	ppb	100
4) Vinyl Chloride	1.427	62	490302	49.85	ppb	100
5) Bromomethane	1.683	94	263960	45.75	ppb	100
6) Chloroethane	1.762	64	315542	48.37	ppb	100
7) Freon 21	1.926	67	812622	49.65	ppb	100
8) Trichlorofluoromethane	1.975	101	735808	49.91	ppb	100
9) Diethyl Ether	2.231	59	322432	49.46	ppb	100
10) Freon 123a	2.237	67	506417	47.85	ppb	100
11) Freon 123	2.292	83	587699	48.36	ppb	100
12) Acrolein	2.341	56	183056	268.65	ppb	100
13) 1,1-Dicethene	2.426	96	330745	47.66	ppb	100
14) Freon 113	2.438	101	326548	47.52	ppb	100
15) Acetone	2.487	43	61189	46.73	ppb	100
16) 2-Propanol	2.652	45	272187	1046.55	ppb	100
17) Iodomethane	2.573	142	422778	58.14	ppb	100
18) Carbon Disulfide	2.634	76	1056091	47.65	ppb	100
19) Acetonitrile	2.762	40	39150	226.31	ppb	100
20) Allyl Chloride	2.792	76	205980	49.31	ppb	100
21) Methyl Acetate	2.829	43	145265	50.42	ppb	100
22) Methylene Chloride	2.926	84	357779	48.50	ppb	100
23) TBA	3.091	59	505412	1078.35	ppb	100
24) Acrylonitrile	3.207	53	376667	248.90	ppb	100
25) Methyl-t-Butyl Ether	3.262	73	929581	51.54	ppb	100
26) trans-1,2-Dichloroethene	3.243	96	372428	48.01	ppb	100
28) 1,1-Dicethane	3.792	63	617755	48.08	ppb	100
29) Vinyl Acetate	3.902	86	75302	49.01	ppb	100
30) DIPE	3.944	45	1079563	48.46	ppb	100
31) 2-Chloro-1,3-Butadiene	3.926	53	678082	48.57	ppb	100
32) ETBE	4.530	59	1082125	48.73	ppb	100
33) 2,2-Dichloropropane	4.706	77	613731	50.27	ppb	100
34) cis-1,2-Dichloroethene	4.719	96	405250	49.01	ppb	100
35) 2-Butanone	4.779	43	91600	52.20	ppb	100
36) Propionitrile	4.865	54	141700	266.79	ppb	100

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3690.D
 Acq On : 4 Jun 2015 3:12 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:25:10 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.145	130	225483	49.33	ppb	100
38) Methacrylonitrile	5.157	67	95180	47.04	ppb	100
39) Tetrahydrofuran	5.243	42	55302	46.66	ppb	100
40) Chloroform	5.328	83	643141	47.62	ppb	100
41) 1,1,1-Trichloroethane	5.596	97	618476	47.44	ppb	100
42) TAME	6.407	73	972099	50.20	ppb	100
44) Cyclohexane	5.676	41	342453	48.23	ppb	100
46) Carbontetrachloride	5.859	121	164314	48.18	ppb	100
47) 1,1-Dichloropropene	5.871	75	508175	47.12	ppb	100
49) Benzene	6.176	78	1502364	48.38	ppb	100
50) 1,2-Dichloroethane	6.212	62	475427	47.75	ppb	100
51) Iso-Butyl Alcohol	6.206	43	202548	981.84	ppb	100
52) n-Heptane	6.645	43	320944	48.52	ppb	100
53) 1-Butanol	7.121	56	338594	2584.54	ppb	100
54) Trichloroethene	7.084	130	412166	49.16	ppb	100
55) Methylcyclohexane	7.309	55	392999	50.11	ppb	100
56) 1,2-Dichloropropane	7.358	63	361759	48.64	ppb	100
57) Dibromomethane	7.492	93	190839	47.69	ppb	100
58) 1,4-Dioxane	7.559	88	54275m	895.95	ppb	
59) Methyl Methacrylate	7.578	69	184592	50.10	ppb	100
60) Bromodichloromethane	7.712	83	514975	47.10	ppb	100
61) 2-Nitropropane	7.986	41	143287	102.60	ppb	100
62) 2-Chloroethylvinyl Ether	8.108	63	180129	52.54	ppb	100
63) cis-1,3-Dichloropropene	8.242	75	615517	49.32	ppb	100
64) 4-Methyl-2-pentanone	8.443	43	221960	52.41	ppb	100
66) Toluene	8.602	91	1751509	49.16	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	538772	50.45	ppb	100
68) Ethyl Methacrylate	8.998	69	393442	50.76	ppb	100
69) 1,1,2-Trichloroethane	9.047	97	278943	48.47	ppb	100
72) Tetrachloroethene	9.181	164	310309	46.28	ppb	100
73) 2-Hexanone	9.327	43	158048	53.40	ppb	100
74) 1,3-Dichloropropane	9.212	76	504246	52.53	ppb	100
75) Dibromochloromethane	9.437	129	366279	50.68	ppb	100
76) N-Butyl Acetate	9.480	43	402645	51.96	ppb	100
77) 1,2-Dibromoethane	9.529	107	285034	50.28	ppb	100
78) Chlorobenzene	10.016	112	1179306	49.56	ppb	100
79) 3-CBTF	10.035	180	540467	48.17	ppb	100
80) 4-CBTF	10.083	180	486390	47.86	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.102	131	393979	48.35	ppb	100
82) Ethylbenzene	10.132	106	635496	49.33	ppb	100
83) (m+p)Xylene	10.242	106	1583296	100.84	ppb	100
84) o-Xylene	10.595	106	763796	50.24	ppb	100
85) Styrene	10.608	104	1313363	50.33	ppb	100
87) Bromoform	10.760	173	210485	50.69	ppb	100
88) 2-CBTF	10.833	180	527159	44.81	ppb	100
89) Isopropylbenzene	10.925	105	1840082	48.87	ppb	100
90) Cyclohexanone	10.986	55	236720	1044.96	ppb	100
91) trans-1,4-Dichloro-2-B...	11.229	53	101128	49.90	ppb	100
92) 1,1,2,2-Tetrachloroethane	11.181	83	337636	49.26	ppb	100
93) Bromobenzene	11.175	156	458732	48.86	ppb	100
94) 1,2,3-Trichloropropane	11.211	110	99995	47.95	ppb	100

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3690.D
 Acq On : 4 Jun 2015 3:12 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:25:10 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	2128811	50.23	ppb	100
96) 2-Chlorotoluene	11.345	91	1302331	49.87	ppb	100
97) 3-Chlorotoluene	11.394	91	1304033	46.99	ppb	100
98) 4-Chlorotoluene	11.437	91	1621125	50.21	ppb	100
99) 1,3,5-Trimethylbenzene	11.431	105	1603044	49.70	ppb	100
100) tert-Butylbenzene	11.705	119	1261761	48.54	ppb	100
101) 1,2,4-Trimethylbenzene.	11.742	105	1609282	49.41	ppb	100
102) 3,4-DCBTF	11.803	214	359385	46.66	ppb	100
103) sec-Butylbenzene	11.882	105	1760005	49.39	ppb	100
104) p-Isopropyltoluene	12.004	119	1523221	50.32	ppb	100
105) 1,3-Dclbenz	11.961	146	890627	48.80	ppb	100
106) 1,4-Dclbenz	12.040	146	922742	48.54	ppb	100
107) 2,4-DCBTF	12.089	214	317685	46.73	ppb	100
108) 2,5-DCBTF	12.132	214	363400	47.55	ppb	100
109) n-Butylbenzene	12.333	91	1344390	49.42	ppb	100
110) 1,2-Dclbenz	12.339	146	841436	49.32	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.955	157	69447	50.06	ppb	100
112) Trielution Dichlorotol...	13.077	125	2038800	141.91	ppb	100
113) 1,3,5 Trichlorobenzene	13.132	180	515207	48.15	ppb	100
114) Coelution Dichlorotoluene	13.406	125	1471540	95.61	ppb	100
115) 1,2,4-Tcbenzene	13.613	180	484695	49.47	ppb	100
116) Hexachlorobt	13.747	225	176281	46.73	ppb	100
117) Naphthalen	13.802	128	1059250	51.51	ppb	100
118) 1,2,3-Tclbenzene	13.991	180	405943	50.67	ppb	100
119) 2,4,5-Trichlorotolene	14.570	159	298172	46.54	ppb	100
120) 2,3,6-Trichlorotoluene	14.656	159	268404	48.73	ppb	100

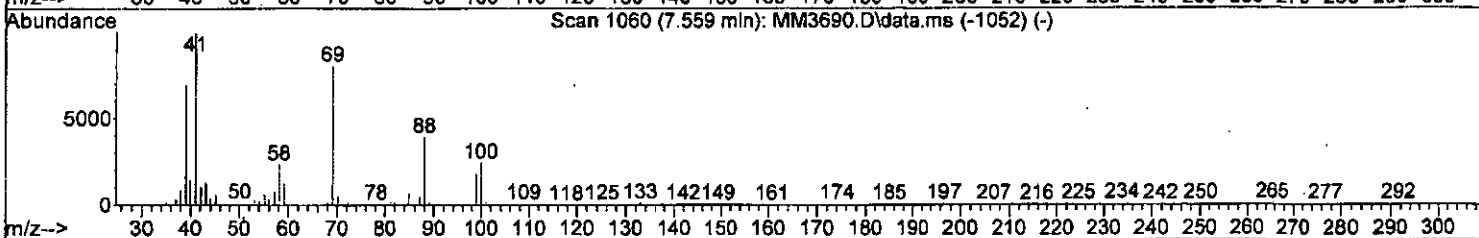
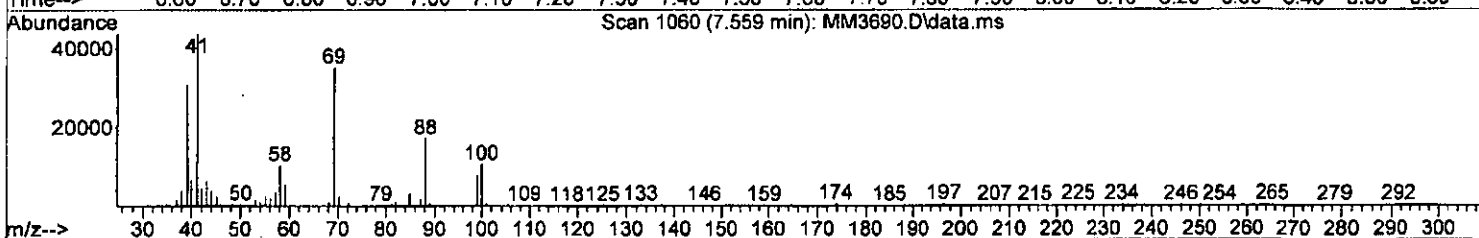
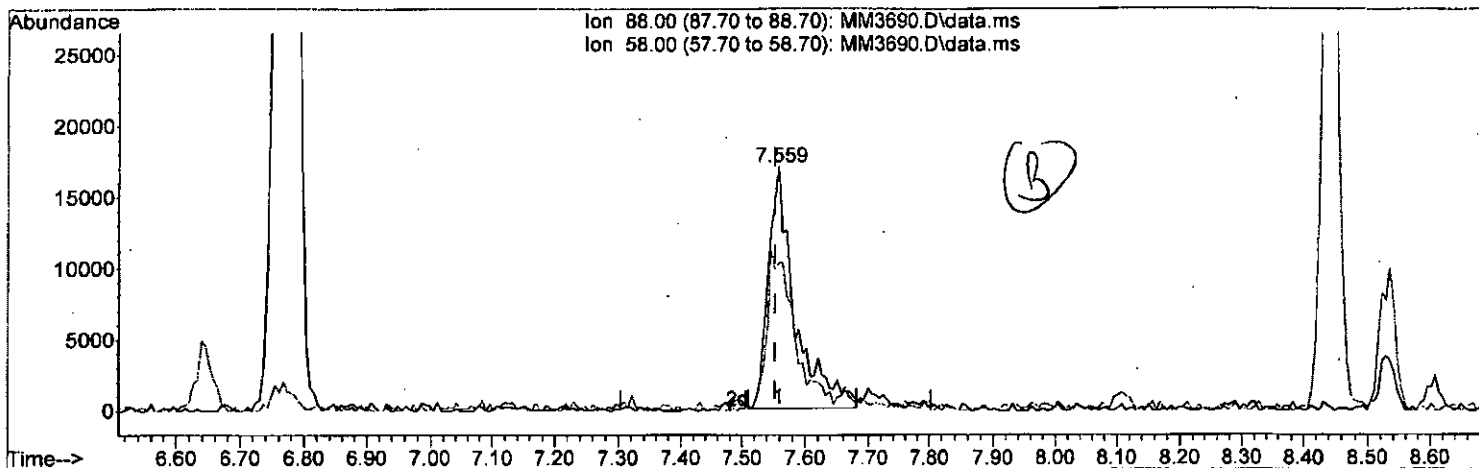
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3690.D
 Acq On : 4 Jun 2015 3:12 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:57 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3690.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 814.87 ppb

response 49363

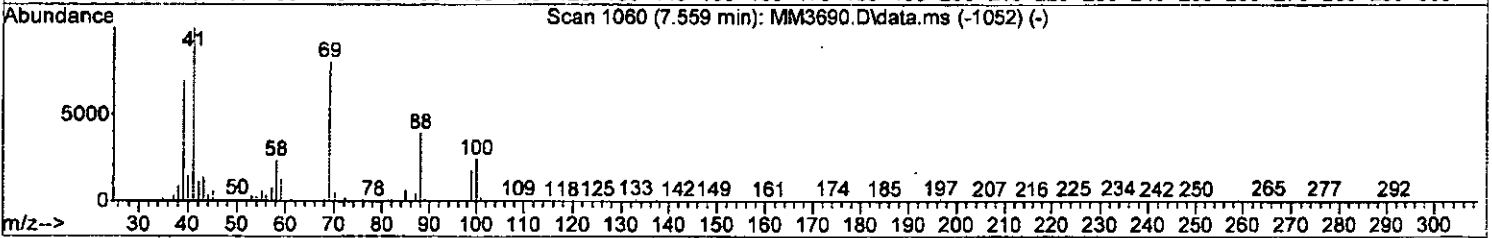
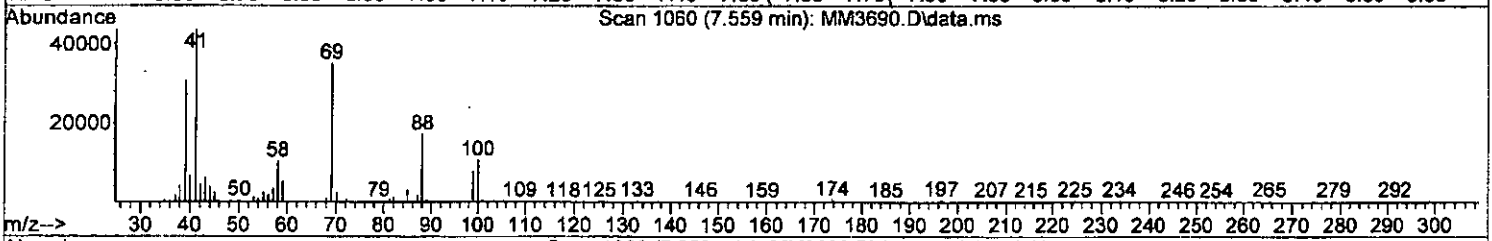
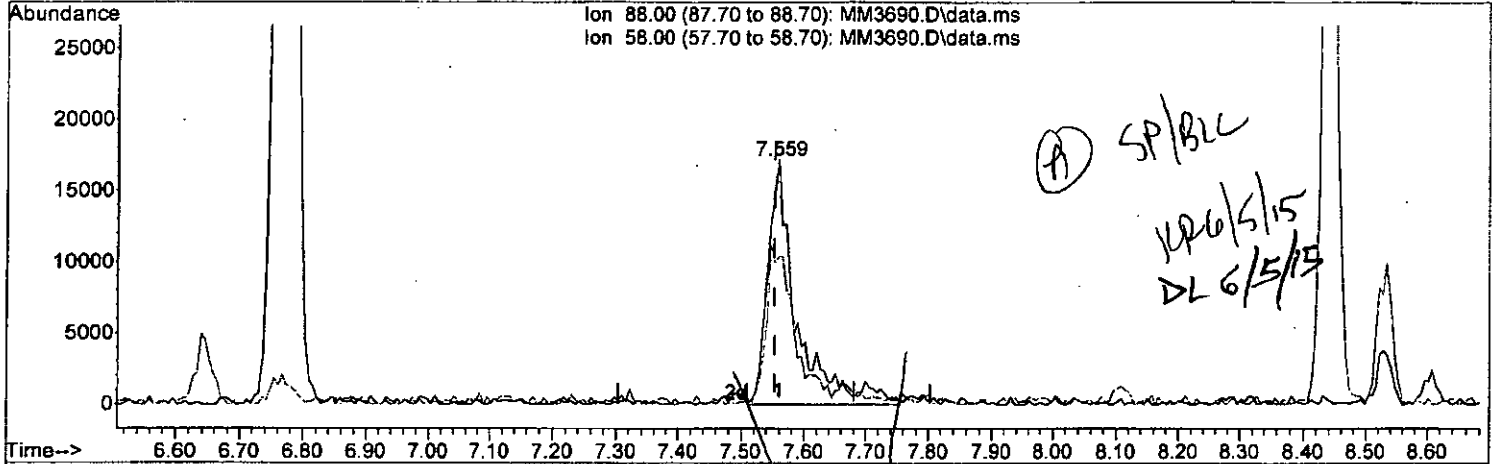
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3690.D
 Acq On : 4 Jun 2015 3:12 pm
 Operator : K.Ruest
 Sample : 50ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 12 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:47:57 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3690.D\data.ms

(58) 1,4-Dioxane

7.559min (+0.006) 895.95 ppb m

response 54275

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	60.72
0.00	0.00	0.00
0.00	0.00	0.00

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Inst : MSVOA-12

[illegible]

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3691.D
 Acq On : 4 Jun 2015 3:43 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:02 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	973497	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1579470	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1499651	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	832234	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	1021303	119.49	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 238.98%#			
48) surr1, 1,2-dichloroetha...	6.097	65	1076230	117.88	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 235.76%#			
65) SURR3, Toluene-d8	8.535	98	4361135	116.83	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 233.66%#			
70) SURR2, BFB	11.053	95	1667882	117.59	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 235.18%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	807872	95.70	ppb	95
3) Chloromethane	1.341	50	748439	92.66	ppb	99
4) Vinyl Chloride	1.427	62	960734	94.70	ppb	99
5) Bromomethane	1.683	94	557164	93.64	ppb	96
6) Chloroethane	1.762	64	627502	93.26	ppb	99
7) Freon 21	1.927	67	1623134	96.16	ppb	97
8) Trichlorofluoromethane	1.975	101	1418236	93.27	ppb	99
9) Diethyl Ether	2.231	59	639616	95.14	ppb	96
10) Freon 123a	2.238	67	1022427	93.67	ppb	98
11) Freon 123	2.292	83	1170415	93.38	ppb	99
12) Acrolein	2.335	56	380304	541.16	ppb	96
13) 1,1-Dicethene	2.427	96	665873	93.04	ppb	97
14) Freon 113	2.439	101	663645	93.63	ppb	100
15) Acetone	2.481	43	124662	92.31	ppb	88
16) 2-Propanol	2.646	45	547633	2041.60	ppb	96
17) Iodomethane	2.567	142	932152	124.29	ppb	95
18) Carbon Disulfide	2.634	76	2173567	95.08	ppb	99
19) Acetonitrile	2.756	40	93243	522.62	ppb	93
20) Allyl Chloride	2.792	76	405446	94.10	ppb	92
21) Methyl Acetate	2.829	43	292220	98.34	ppb	97
22) Methylene Chloride	2.926	84	717072	94.24	ppb	96
23) TBA	3.091	59	989088	2046.14	ppb	98
24) Acrylonitrile	3.207	53	771776	494.49	ppb	99
25) Methyl-t-Butyl Ether	3.262	73	1886429	101.42	ppb	98
26) trans-1,2-Dichloroethene	3.243	96	752274	94.04	ppb	95
28) 1,1-Dicethane	3.792	63	1245472	93.99	ppb	98
29) Vinyl Acetate	3.908	86	148541	93.73	ppb	# 74
30) DIPE	3.945	45	2215398	96.41	ppb	99
31) 2-Chloro-1,3-Butadiene	3.926	53	1405244	97.59	ppb	99
32) ETBE	4.530	59	2203809	96.23	ppb	98
33) 2,2-Dichloropropane	4.707	77	1194001	94.82	ppb	99
34) cis-1,2-Dichloroethene	4.719	96	808882	94.85	ppb	98
35) 2-Butanone	4.774	43	186948	103.30	ppb	96
36) Propionitrile	4.871	54	277688	506.92	ppb	99

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Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3691.D

Acq On : 4 Jun 2015 3:43 pm

Operator : K.Ruest

Sample : 100ppb

Misc : 8260 WATER ICAL

ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:02 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.152	130	431727	91.58	ppb	96
38) Methacrylonitrile	5.158	67	190359	91.23	ppb	85
39) Tetrahydrofuran	5.243	42	113258	92.66	ppb	91
40) Chloroform	5.328	83	1285279	92.28	ppb	96
41) 1,1,1-Trichloroethane	5.597	97	1228771	91.39	ppb	98
42) TAME	6.407	73	1959702	98.12	ppb	97
44) Cyclohexane	5.676	41	678569	94.82	ppb	92
46) Carbontetrachloride	5.859	121	326987	95.14	ppb	99
47) 1,1-Dichloropropene	5.871	75	1010734	92.99	ppb	97
49) Benzene	6.176	78	3023653	96.60	ppb	99
50) 1,2-Dichloroethane	6.212	62	958505	95.52	ppb	99
51) Iso-Butyl Alcohol	6.206	43	405154	1948.56	ppb	100
52) n-Heptane	6.645	43	627037	94.05	ppb	97
53) 1-Butanol	7.121	56	678266	5136.73	ppb	99
54) Trichloroethene	7.084	130	827098	97.88	ppb	97
55) Methylcyclohexane	7.310	55	790533	100.00	ppb	98
56) 1,2-Dichloropropane	7.352	63	715932	95.51	ppb	100
57) Dibromomethane	7.493	93	382147	94.75	ppb	96
58) 1,4-Dioxane	7.554	88	106791	1749.05	ppb	86
59) Methyl Methacrylate	7.578	69	364709	98.22	ppb	98
60) Bromodichloromethane	7.712	83	1017493	92.33	ppb	99
61) 2-Nitropropane	7.986	41	296482	210.62	ppb	96
62) 2-Chloroethylvinyl Ether	8.108	63	356547	103.18	ppb	93
63) cis-1,3-Dichloropropene	8.242	75	1233384	98.06	ppb	100
64) 4-Methyl-2-pentanone	8.444	43	440536	103.21	ppb	96
66) Toluene	8.602	91	3511273	97.79	ppb	99
67) trans-1,3-Dichloropropene	8.864	75	1089744	101.24	ppb	99
68) Ethyl Methacrylate	8.998	69	791707	101.34	ppb	98
69) 1,1,2-Trichloroethane	9.047	97	566561	97.68	ppb	97
72) Tetrachloroethene	9.181	164	638153	92.78	ppb	98
73) 2-Hexanone	9.328	43	307704	101.35	ppb	97
74) 1,3-Dichloropropane	9.212	76	986491	100.18	ppb	94
75) Dibromochloromethane	9.437	129	722957	97.52	ppb	100
76) N-Butyl Acetate	9.480	43	799235	100.54	ppb	99
77) 1,2-Dibromoethane	9.529	107	555335	95.50	ppb	97
78) Chlorobenzene	10.016	112	2371273	97.14	ppb	97
79) 3-CBTF	10.035	180	1165995	101.31	ppb	98
80) 4-CBTF	10.084	180	1059232	101.60	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	838035	100.26	ppb	93
82) Ethylbenzene	10.132	106	1271855	96.25	ppb	94
83) (m+p)Xylene	10.242	106	3133803	194.57	ppb	99
84) o-Xylene	10.596	106	1525647	97.81	ppb	97
85) Styrene	10.608	104	2664791	99.54	ppb	98
87) Bromoform	10.760	173	423637	99.43	ppb	99
88) 2-CBTF	10.839	180	1119809	92.76	ppb	99
89) Isopropylbenzene	10.931	105	3688878	95.48	ppb	99
90) Cyclohexanone	10.992	55	449650	1934.44	ppb	92
91) trans-1,4-Dichloro-2-B...	11.230	53	207389	99.74	ppb	95
92) 1,1,2,2-Tetrachloroethane	11.181	83	687563	97.77	ppb	99
93) Bromobenzene	11.175	156	919830	95.49	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	205319	95.96	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3691.D
 Acq On : 4 Jun 2015 3:43 pm
 Operator : K.Ruest
 Sample : 100ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 13 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:02 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

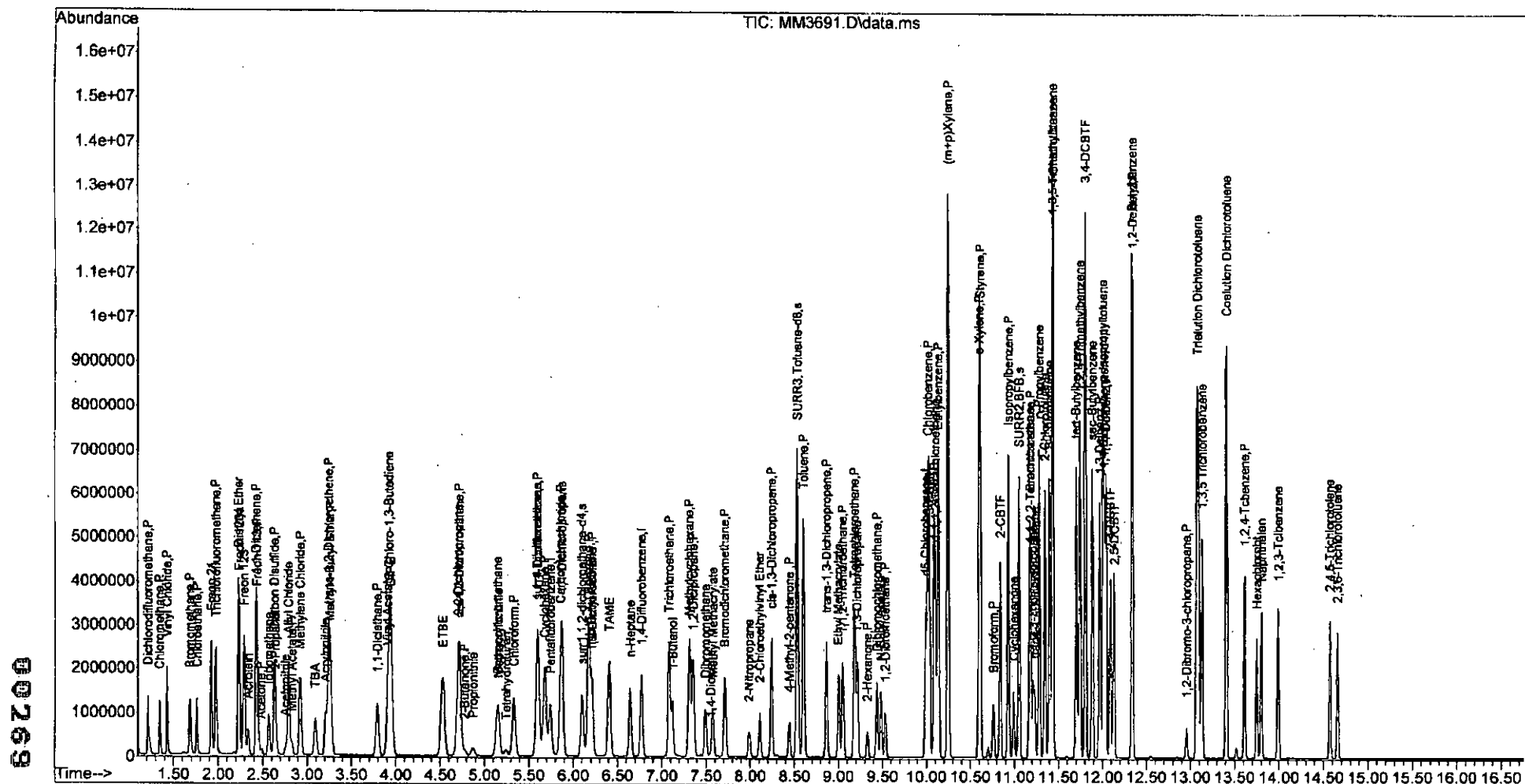
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	4177838	96.08	ppb	97
96) 2-Chlorotoluene	11.345	91	2626784	98.02	ppb	98
97) 3-Chlorotoluene	11.394	91	2792570	98.07	ppb	99
98) 4-Chlorotoluene	11.437	91	3292171	99.38	ppb	100
99) 1,3,5-Trimethylbenzene	11.431	105	3202057	96.75	ppb	98
100) tert-Butylbenzene	11.699	119	2513177	94.23	ppb	99
101) 1,2,4-Trimethylbenzene	11.742	105	3228544	96.61	ppb	99
102) 3,4-DCBTF	11.803	214	777307	98.34	ppb	97
103) sec-Butylbenzene	11.882	105	3469499	94.88	ppb	99
104) p-Isopropyltoluene	12.004	119	3020115	97.24	ppb	100
105) 1,3-Dclbenz	11.967	146	1810417	96.68	ppb	98
106) 1,4-Dclbenz	12.040	146	1849157	94.80	ppb	98
107) 2,4-DCBTF	12.089	214	695672	99.74	ppb	96
108) 2,5-DCBTF	12.132	214	781997	99.72	ppb	98
109) n-Butylbenzene	12.333	91	2680072	96.01	ppb	99
110) 1,2-Dclbenz	12.339	146	1696645	96.93	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	135406	95.13	ppb	91
112) Trielution Dichlorotol...	13.077	125	4361300	295.86	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	1098265	100.04	ppb	96
114) Coelution Dichlorotoluene	13.406	125	3126092	197.95	ppb	98
115) 1,2,4-Tcbenzene	13.613	180	969185	96.40	ppb	99
116) Hexachlorobt	13.747	225	347020	89.65	ppb	94
117) Naphthalen	13.802	128	2082967	98.72	ppb	98
118) 1,2,3-Tclbenzene	13.991	180	815720	99.23	ppb	95
119) 2,4,5-Trichlorotolene	14.570	159	623865	94.90	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	539416	95.45	ppb	98

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

(QT Reviewed)

Inst : MSVOA-12

Quant Time: Jun 05 08:48:02 2015
Quant Method : I:\ACQDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 08:46:49 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoal2\Data\060415\

Data File : MM3692.D

Acq On : 4 Jun 2015 4:13 pm

Operator : K.Ruest

Sample : 150ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 05 09:28:29 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.737	168	983983	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1611955	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1536623	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	842212	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	1218940	139.74	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	279.48%		
48) surr1, 1,2-dichloroetha...	6.096	65	1256325	134.83	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	269.66%		
65) SURR3, Toluene-d8	8.535	98	5160044	135.44	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	270.88%		
70) SURR2, BFB	11.053	95	1971994	136.23	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	272.46%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	1269070	148.73	ppb	99
3) Chloromethane	1.341	50	1199467	146.91	ppb	98
4) Vinyl Chloride	1.427	62	1498919	146.18	ppb	98
5) Bromomethane	1.677	94	935616	155.56	ppb	97
6) Chloroethane	1.762	64	976432	143.58	ppb	99
7) Freon 21	1.920	67	2399387	140.63	ppb	100
8) Trichlorofluoromethane	1.975	101	2224024	144.70	ppb	100
9) Diethyl Ether	2.225	59	960697	141.37	ppb	95
10) Freon 123a	2.231	67	1486699	134.75	ppb	93
11) Freon 123	2.292	83	1702487	134.39	ppb	99
12) Acrolein	2.335	56	554275	780.31	ppb	96
13) 1,1-Dicethene	2.426	96	1077154	148.90	ppb	97
14) Freon 113	2.439	101	1066191	148.83	ppb	99
15) Acetone	2.487	43	192513	141.03	ppb	86
16) 2-Propanol	2.646	45	746194	2752.20	ppb	98
17) Iodomethane	2.567	142	1358765	179.24	ppb	97
18) Carbon Disulfide	2.634	76	3367681	145.75	ppb	100
19) Acetonitrile	2.756	40	153407	850.66	ppb	87
20) Allyl Chloride	2.792	76	614413	141.08	ppb	98
21) Methyl Acetate	2.829	43	413135	137.55	ppb	97
22) Methylene Chloride	2.920	84	1111171	144.48	ppb	94
23) TBA	3.091	59	1432215	2931.27	ppb	100
24) Acrylonitrile	3.207	53	1155040	732.16	ppb	95
25) Methyl-t-Butyl Ether	3.262	73	2819986	150.00	ppb	97
26) trans-1,2-Dichloroethene	3.243	96	1197475	148.09	ppb	99
28) 1,1-Dicethene	3.792	63	1931336	144.19	ppb	97
29) Vinyl Acetate	3.902	86	216610	135.23	ppb	93
30) DIPE	3.944	45	3413459	146.97	ppb	97
31) 2-Chloro-1,3-Butadiene	3.926	53	2183596	150.03	ppb	99
32) ETBE	4.530	59	3319449	143.40	ppb	100
33) 2,2-Dichloropropane	4.707	77	1911298	150.17	ppb	100
34) cis-1,2-Dichloroethene	4.713	96	1291674	149.85	ppb	97
35) 2-Butanone	4.780	43	262063	143.26	ppb	99
36) Propionitrile	4.865	54	401138	724.47	ppb	93

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3692.D
 Acq On : 4 Jun 2015 4:13 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:28:29 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.145	130	655108	137.48	ppb	92
38) Methacrylonitrile	5.158	67	283621	134.47	ppb	94
39) Tetrahydrofuran	5.237	42	166888	135.07	ppb	86
40) Chloroform	5.328	83	2022905	143.69	ppb	99
41) 1,1,1-Trichloroethane	5.597	97	1948114	143.35	ppb	98
42) TAME	6.407	73	2970244	147.14	ppb	98
44) Cyclohexane	5.676	41	1016795	139.22	ppb	100
46) Carbontetrachloride	5.859	121	518085	147.70	ppb	96
47) 1,1-Dichloropropene	5.871	75	1607200	144.89	ppb	95
49) Benzene	6.176	78	4688723	146.78	ppb	98
50) 1,2-Dichloroethane	6.212	62	1439767	140.59	ppb	96
51) Iso-Butyl Alcohol	6.206	43	597882	2817.52	ppb	94
52) n-Heptane	6.645	43	1009023	148.30	ppb	95
53) 1-Butanol	7.121	56	976069	7243.11	ppb	98
54) Trichloroethene	7.084	130	1316960	152.72	ppb	98
55) Methylcyclohexane	7.316	55	1177723	145.98	ppb	96
56) 1,2-Dichloropropane	7.358	63	1108949	144.96	ppb	97
57) Dibromomethane	7.493	93	580986	141.15	ppb	99
58) 1,4-Dioxane	7.554	88	156797m	2516.31	ppb	
59) Methyl Methacrylate	7.578	69	541482	142.88	ppb	99
60) Bromodichloromethane	7.712	83	1571271	139.70	ppb	98
61) 2-Nitropropane	7.986	41	429679	299.10	ppb	97
62) 2-Chloroethylvinyl Ether	8.108	63	524836	148.82	ppb	96
63) cis-1,3-Dichloropropene	8.242	75	1917987	149.41	ppb	100
64) 4-Methyl-2-pentanone	8.444	43	633008	145.32	ppb	96
66) Toluene	8.602	91	5431084	148.21	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	1653590	150.52	ppb	99
68) Ethyl Methacrylate	9.004	69	1180822	148.11	ppb	94
69) 1,1,2-Trichloroethane	9.047	97	871409	147.22	ppb	97
72) Tetrachloroethene	9.181	164	1010685	143.40	ppb	97
73) 2-Hexanone	9.328	43	435485	139.99	ppb	96
74) 1,3-Dichloropropane	9.212	76	1520375	150.68	ppb	95
75) Dibromochloromethane	9.437	129	1125993	148.23	ppb	99
76) N-Butyl Acetate	9.480	43	1110325	136.31	ppb	98
77) 1,2-Dibromoethane	9.529	107	852410	143.06	ppb	95
78) Chlorobenzene	10.016	112	3690587	147.55	ppb	98
79) 3-CBTF	10.035	180	1859754	157.70	ppb	96
80) 4-CBTF	10.090	180	1671119	156.43	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.102	131	1324307	154.63	ppb	97
82) Ethylbenzene	10.138	106	1995886	147.40	ppb	# 90
83) (m+p)Xylene	10.248	106	4955794	300.29	ppb	88
84) o-Xylene	10.602	106	2438683	152.59	ppb	93
85) Styrene	10.608	104	4198404	153.05	ppb	99
87) Bromoform	10.760	173	649432	150.62	ppb	97
88) 2-CBTF	10.839	180	1809298	148.09	ppb	97
89) Isopropylbenzene	10.931	105	5724499	146.41	ppb	97
90) Cyclohexanone	10.992	55	663254	2819.58	ppb	87
91) trans-1,4-Dichloro-2-B...	11.230	53	311747	148.15	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.181	83	1044696	146.80	ppb	97
93) Bromobenzene	11.175	156	1428364	146.52	ppb	92
94) 1,2,3-Trichloropropane	11.211	110	304147	140.46	ppb	93

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3692.D
 Acq On : 4 Jun 2015 4:13 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:28:29 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
95) n-Propylbenzene	11.285	91	6403413	145.52	ppb	95
96) 2-Chlorotoluene	11.345	91	4091783	150.88	ppb	99
97) 3-Chlorotoluene	11.394	91	4515511	156.70	ppb	99
98) 4-Chlorotoluene	11.437	91	5017257	149.66	ppb	98
99) 1,3,5-Trimethylbenzene	11.431	105	5068397	151.32	ppb	97
100) tert-Butylbenzene	11.705	119	3954753	146.52	ppb	99
101) 1,2,4-Trimethylbenzene	11.742	105	4978437	147.21	ppb	99
102) 3,4-DCBTF	11.803	214	1280264	160.06	ppb	99
103) sec-Butylbenzene	11.888	105	5380448	145.40	ppb	96
104) p-Isopropyltoluene	12.004	119	4707057	149.75	ppb	98
105) 1,3-Dclbenz	11.967	146	2814329	148.51	ppb	99
106) 1,4-Dclbenz	12.040	146	2866913	145.24	ppb	98
107) 2,4-DCBTF	12.089	214	1106652	156.78	ppb	100
108) 2,5-DCBTF	12.132	214	1248328	157.30	ppb	99
109) n-Butylbenzene	12.333	91	4322277	153.01	ppb	98
110) 1,2-Dclbenz	12.339	146	2646600	149.41	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	198883	138.07	ppb	94
112) Trielution Dichlorotol...	13.077	125	6771597	453.92	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	1700311	153.04	ppb	98
114) Coelution Dichlorotoluene	13.406	125	4806592	300.75	ppb	97
115) 1,2,4-Tcbenzene	13.613	180	1479568	145.41	ppb	98
116) Hexachlorobt	13.747	225	566780	144.68	ppb	97
117) Naphthalen	13.802	128	3039011	142.32	ppb	99
118) 1,2,3-Tclbenzene	13.991	180	1214544	146.00	ppb	97
119) 2,4,5-Trichlorotoluene	14.570	159	989889	148.80	ppb	96
120) 2,3,6-Trichlorotoluene	14.656	159	842093	147.24	ppb	96

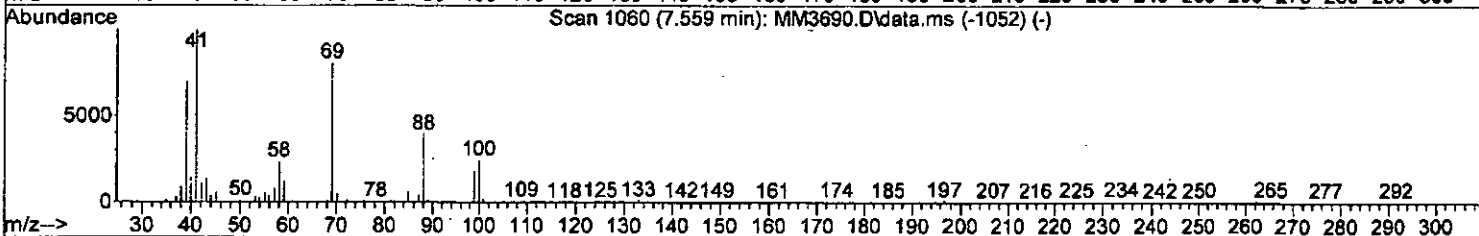
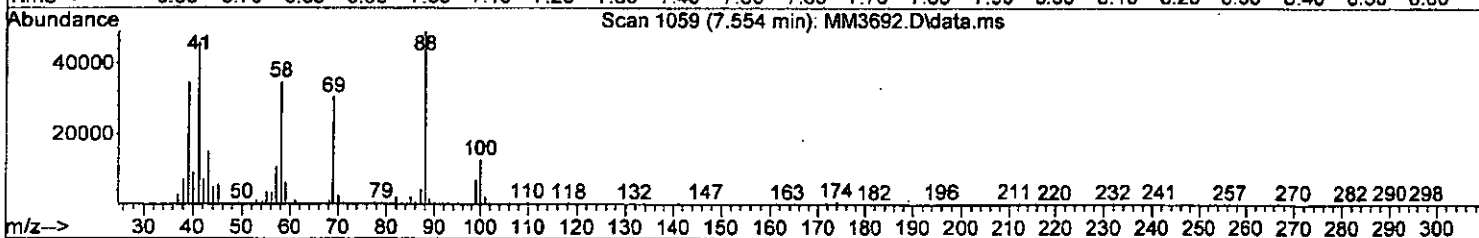
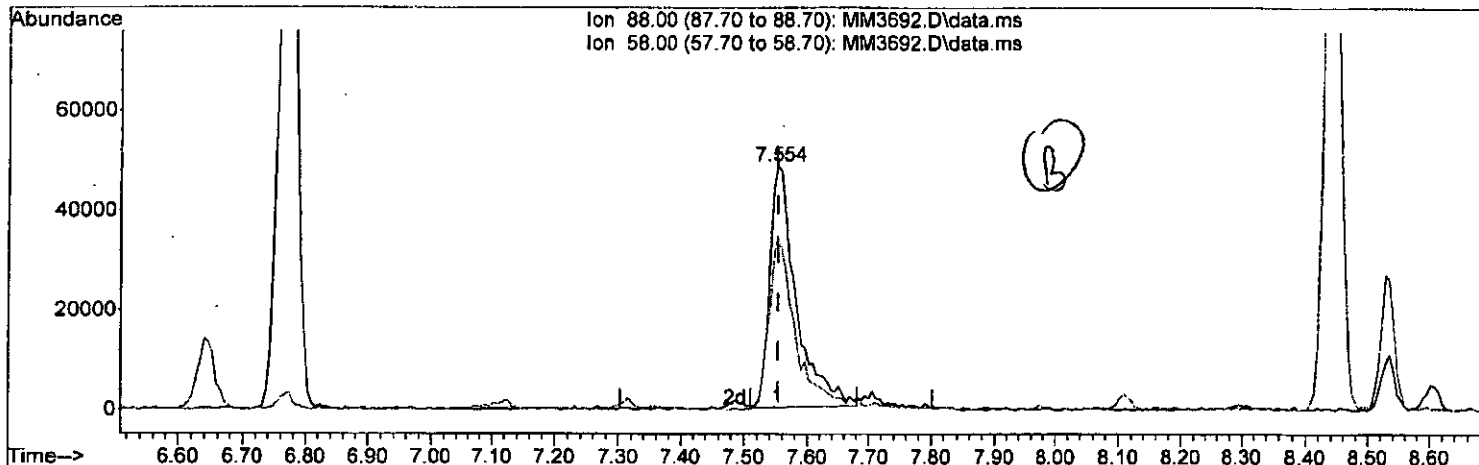
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3692.D
 Acq On : 4 Jun 2015 4:13 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3692.D\data.ms

(58) 1,4-Dioxane

7.554min (-0.000) 2290.51 ppb

response 142727

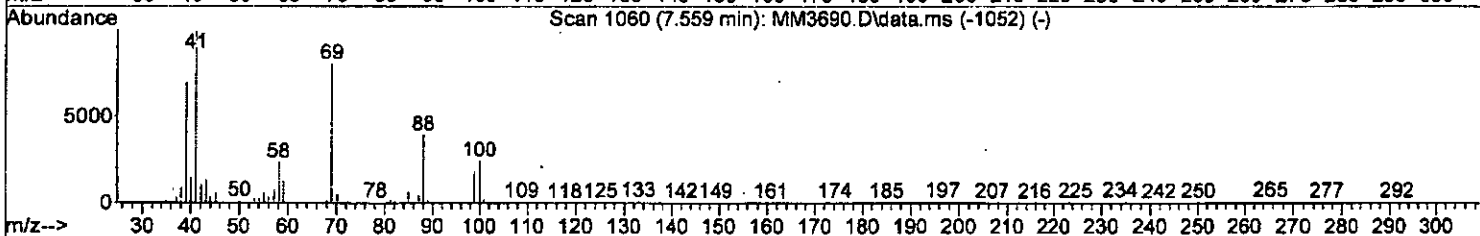
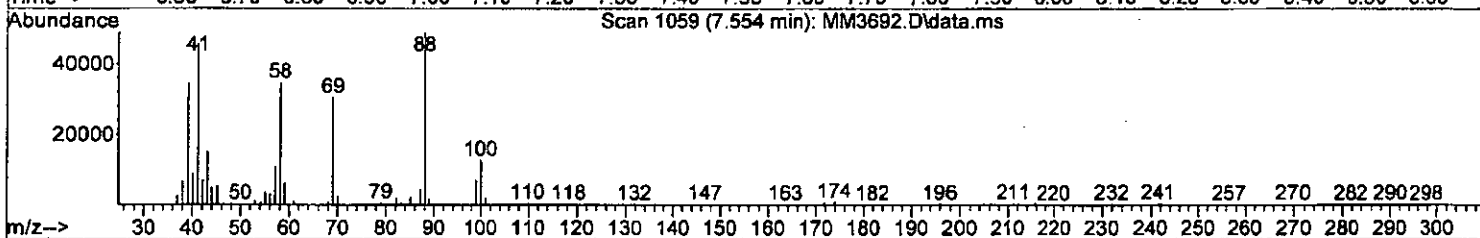
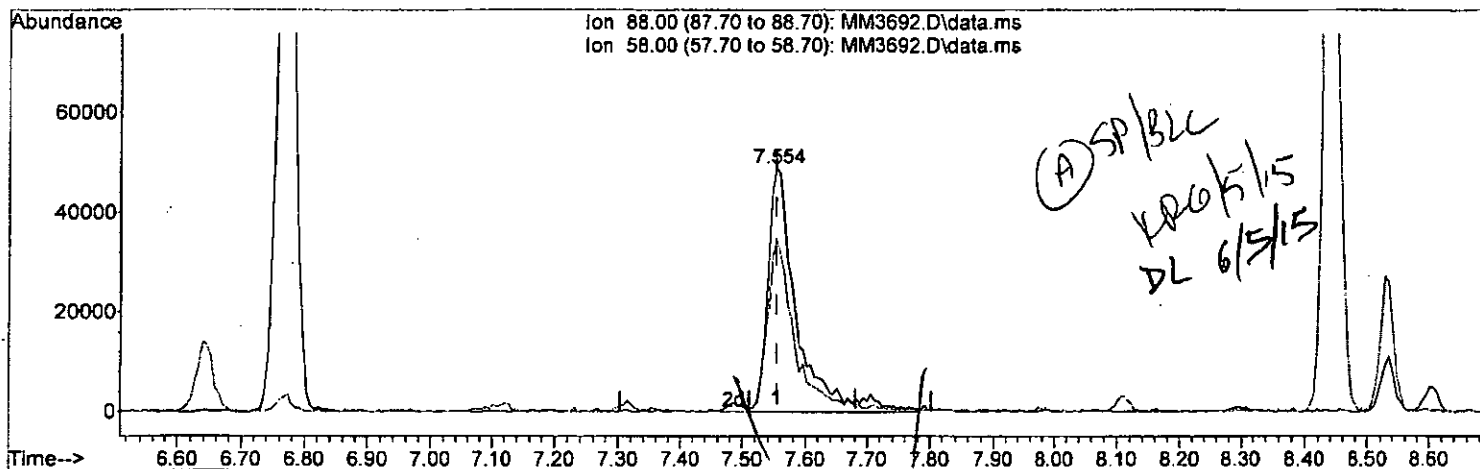
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	70.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3692.D
 Acq On : 4 Jun 2015 4:13 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3692.D\data.ms

(58) 1,4-Dioxane

7.554min (-0.000) 2516.31 ppb m

response 156797

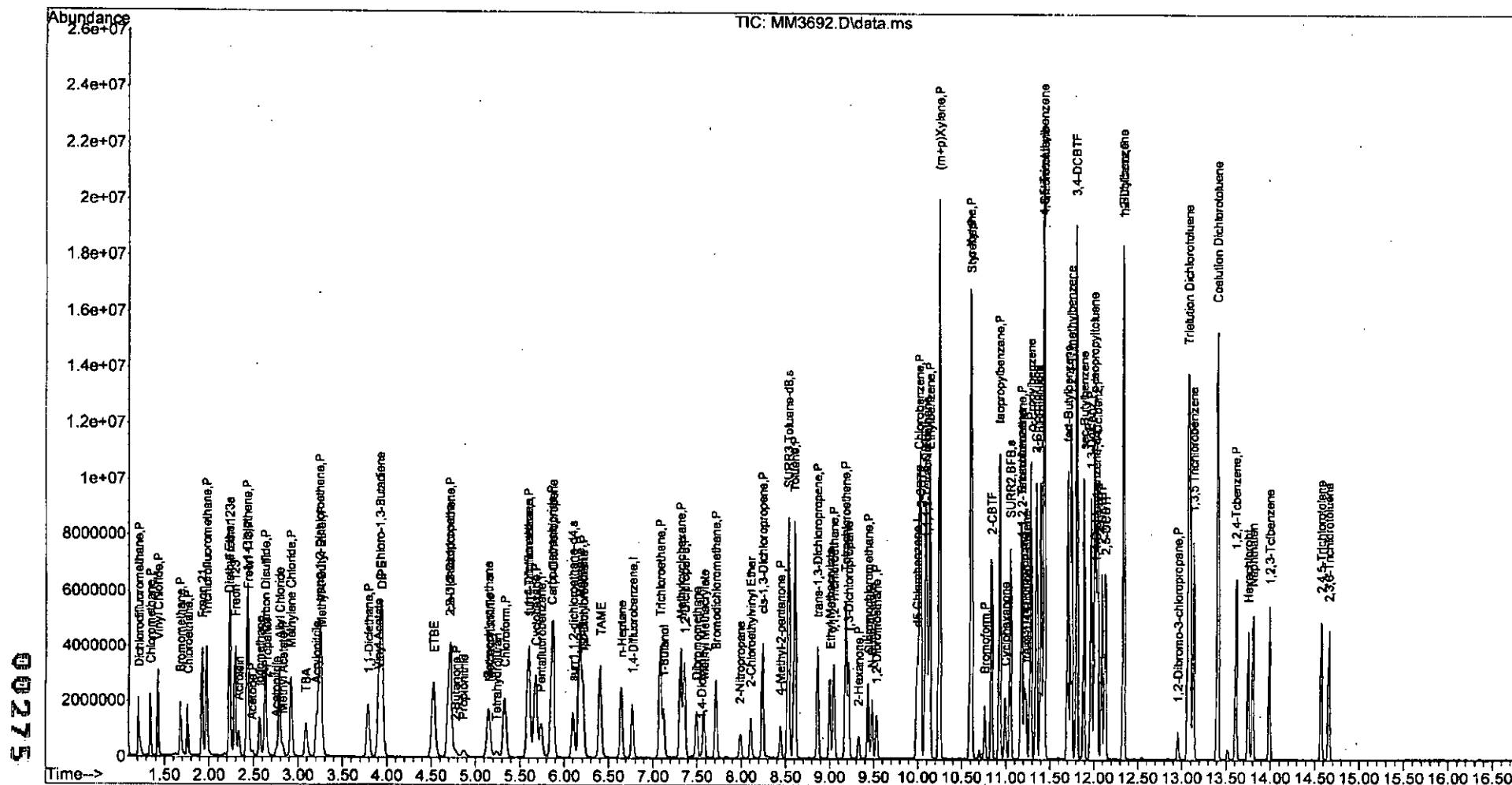
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	70.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3692.D
 Acq On : 4 Jun 2015 4:13 pm
 Operator : K.Ruest
 Sample : 150ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 14 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:28:29 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3693.D
 Acq On : 4 Jun 2015 4:43 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:30:24 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	995391	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1600668	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1536782	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	852989	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrfilmethane	5.597	113	476595	55.02	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	110.04%		
48) surr1,1,2-dichloroetha...	6.096	65	494950	53.49	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	106.98%		
65) SURR3,Toluene-d8	8.529	98	2090320	55.25	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	110.50%		
70) SURR2,BFB	11.053	95	786702	54.73	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	109.46%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.213	85	1766459	204.65	ppb	97
3) Chloromethane	1.341	50	1576513	190.88	ppb	99
4) Vinyl Chloride	1.427	62	2031598	195.86	ppb	98
5) Bromomethane	1.677	94	1304316	214.38	ppb	98
6) Chloroethane	1.762	64	1339973	194.78	ppb	98
7) Freon 21	1.920	67	3370977	195.31	ppb	98
8) Trichlorofluoromethane	1.969	101	3034511	195.17	ppb	99
9) Diethyl Ether	2.225	59	1300371	189.16	ppb	97
10) Freon 123a	2.231	67	2124232	190.33	ppb	91
11) Freon 123	2.292	83	2455688	191.62	ppb	98
12) Acrolein	2.335	56	733341	1020.57	ppb	99
13) 1,1-Dicethene	2.426	96	1496179	204.46	ppb	98
14) Freon 113	2.439	101	1475886	203.65	ppb	96
15) Acetone	2.487	43	269205	194.95	ppb	88
16) 2-Propanol	2.646	45	1048320	3822.22	ppb	98
17) Iodomethane	2.567	142	1801920	234.98	ppb	97
18) Carbon Disulfide	2.634	76	4537699	194.14	ppb	98
19) Acetonitrile	2.756	40	202468	1109.85	ppb	# 93
20) Allyl Chloride	2.792	76	823817	187.00	ppb	99
21) Methyl Acetate	2.829	43	587423	193.34	ppb	96
22) Methylene Chloride	2.920	84	1524929	196.01	ppb	93
23) TBA	3.091	59	1866457	3776.24	ppb	100
24) Acrylonitrile	3.207	53	1526232	956.37	ppb	98
25) Methyl-t-Butyl Ether	3.262	73	3779620	198.73	ppb	96
26) trans-1,2-Dichloroethene	3.243	96	1626975	198.90	ppb	99
28) 1,1-Dicethane	3.792	63	2653945	195.87	ppb	97
29) Vinyl Acetate	3.908	86	290781	179.45	ppb	# 85
30) DIPE	3.944	45	4685816	199.44	ppb	99
31) 2-Chloro-1,3-Butadiene	3.926	53	2945540	200.06	ppb	98
32) ETBE	4.530	59	4497090	192.05	ppb	99
33) 2,2-Dichloropropane	4.707	77	2565434	199.26	ppb	98
34) cis-1,2-Dichloroethene	4.719	96	1762113	202.08	ppb	96
35) 2-Butanone	4.780	43	345831	186.89	ppb	100
36) Propionitrile	4.865	54	531791	949.43	ppb	92

KR
6/5/15

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3693.D
 Acq On : 4 Jun 2015 4:43 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 09:30:24 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.145	130	870559	180.60	ppb	95
38) Methacrylonitrile	5.158	67	370025	173.43	ppb #	78
39) Tetrahydrofuran	5.237	42	220988	176.81	ppb	88
40) Chloroform	5.328	83	2771795	194.63	ppb	98
41) 1,1,1-Trichloroethane	5.597	97	2634081	191.60	ppb	98
42) TAME	6.407	73	3991050	195.44	ppb	98
44) Cyclohexane	5.676	41	1435445	197.93	ppb	98
46) Carbondetrachloride	5.859	121	722886	207.54	ppb	98
47) 1,1-Dichloropropene	5.871	75	2193800	199.17	ppb	97
49) Benzene	6.176	78	6371735	200.88	ppb	98
50) 1,2-Dichloroethane	6.212	62	1963022	193.04	ppb	99
51) Iso-Butyl Alcohol	6.206	43	780772	3705.33	ppb	99
52) n-Heptane	6.645	43	1359610	201.24	ppb	99
53) 1-Butanol	7.127	56	1284468	9598.86	ppb	100
54) Trichloroethene	7.084	130	1776485	207.45	ppb	94
55) Methylcyclohexane	7.316	55	1692841	211.30	ppb	96
56) 1,2-Dichloropropane	7.358	63	1514042	199.30	ppb	100
57) Dibromomethane	7.493	93	790137	193.32	ppb	97
58) 1,4-Dioxane	7.554	88	211730m	3421.85	ppb	
59) Methyl Methacrylate	7.578	69	724583	192.55	ppb	97
60) Bromodichloromethane	7.712	83	2155556	193.00	ppb	98
61) 2-Nitropropane	7.986	41	578503	405.53	ppb	100
62) 2-Chloroethylvinyl Ether	8.108	63	700120	199.92	ppb	100
63) cis-1,3-Dichloropropene	8.242	75	2575418	202.04	ppb	98
64) 4-Methyl-2-pentanone	8.444	43	842811	194.85	ppb	96
66) Toluene	8.602	91	7285635	200.22	ppb	97
67) trans-1,3-Dichloropropene	8.864	75	2248087	206.08	ppb	98
68) Ethyl Methacrylate	9.004	69	1576488	199.13	ppb	96
69) 1,1,2-Trichloroethane	9.047	97	1163778	198.00	ppb	98
72) Tetrachloroethene	9.181	164	1370881	194.49	ppb	96
73) 2-Hexanone	9.328	43	585372	188.15	ppb	99
74) 1,3-Dichloropropane	9.212	76	2030667	201.24	ppb	96
75) Dibromochloromethane	9.437	129	1504317	198.01	ppb	99
76) N-Butyl Acetate	9.480	43	1563763	191.95	ppb	99
77) 1,2-Dibromoethane	9.529	107	1138736	191.10	ppb	99
78) Chlorobenzene	10.016	112	5007222	200.16	ppb	96
79) 3-CBTF	10.035	180	2541847	215.51	ppb	97
80) 4-CBTF	10.090	180	2303129	215.57	ppb	100
81) 1,1,1,2-Tetrachloroethane	10.102	131	1790864	209.08	ppb	96
82) Ethylbenzene	10.138	106	2765804	204.24	ppb #	80
83) (m+p)Xylene	10.248	106	6761524	409.66	ppb #	76
84) o-Xylene	10.602	106	3399487	212.69	ppb	91
85) Styrene	10.614	104	5674125	206.83	ppb	100
87) Bromoform	10.760	173	884483	202.54	ppb	98
88) 2-CBTF	10.839	180	2468029	199.46	ppb	96
89) Isopropylbenzene	10.931	105	7592408	191.73	ppb	94
90) Cyclohexanone	10.992	55	889289	3732.73	ppb	89
91) trans-1,4-Dichloro-2-B...	11.230	53	416795	195.57	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.181	83	1381606	191.69	ppb	99
93) Bromobenzene	11.175	156	1965708	199.09	ppb	93
94) 1,2,3-Trichloropropane	11.211	110	403791	184.12	ppb	92

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3693.D

Acq On : 4 Jun 2015 4:43 pm

Operator : K.Ruest

Sample : 200ppb

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 05 09:30:24 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 08:46:49 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.285	91	8346693	187.29	ppb	90
96) 2-Chlorotoluene	11.345	91	5532707	201.43	ppb	99
97) 3-Chlorotoluene	11.400	91	5904327	202.30	ppb	97
98) 4-Chlorotoluene	11.437	91	6836009	201.34	ppb	95
99) 1,3,5-Trimethylbenzene	11.431	105	6852088	201.99	ppb	94
100) tert-Butylbenzene	11.705	119	5362657	196.18	ppb	97
101) 1,2,4-Trimethylbenzene	11.742	105	6645751	194.03	ppb	96
102) 3,4-DCBTF	11.803	214	1771912	218.73	ppb	96
103) sec-Butylbenzene	11.888	105	7117475	189.91	ppb	93
104) p-Isopropyltoluene	12.004	119	6235669	195.88	ppb	94
105) 1,3-Dclbenz	11.967	146	3843931	200.27	ppb	98
106) 1,4-Dclbenz	12.040	146	3900030	195.08	ppb	97
107) 2,4-DCBTF	12.089	214	1487472	208.07	ppb	100
108) 2,5-DCBTF	12.132	214	1701818	211.73	ppb	100
109) n-Butylbenzene	12.333	91	5803800	202.86	ppb	95
110) 1,2-Dclbenz	12.339	146	3602200	200.78	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.955	157	258363	177.10	ppb	89
112) Trielution Dichlorotol...	13.083	125	8992978	595.21	ppb	95
113) 1,3,5 Trichlorobenzene	13.132	180	2285962	203.16	ppb	99
114) Coelution Dichlorotoluene	13.406	125	6346954	392.12	ppb	93
115) 1,2,4-Tcbenzene	13.613	180	1989382	193.05	ppb	99
116) Hexachlorobt	13.747	225	767426	193.43	ppb	99
117) Naphthalen	13.802	128	4009056	185.38	ppb	99
118) 1,2,3-Tclbenzene	13.991	180	1643373	195.05	ppb	98
119) 2,4,5-Trichlorotoluene	14.577	159	1339810	198.85	ppb	94
120) 2,3,6-Trichlorotoluene	14.662	159	1166868	201.45	ppb	97

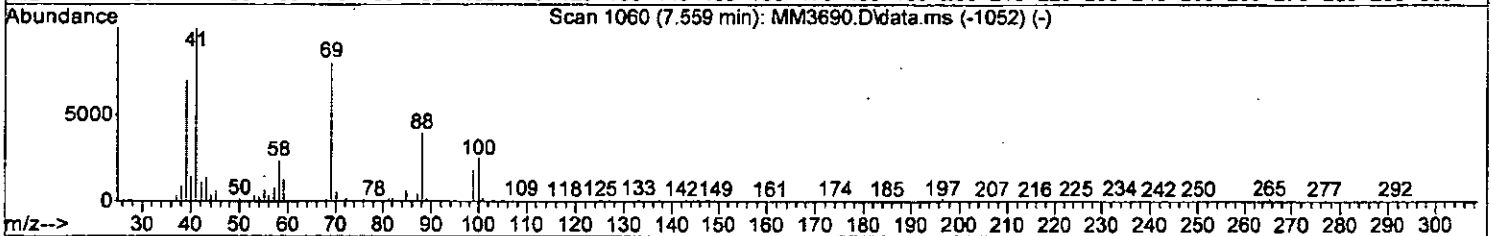
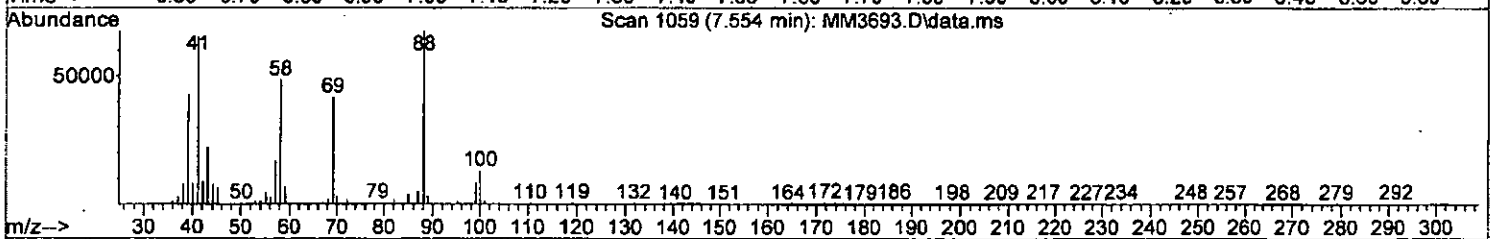
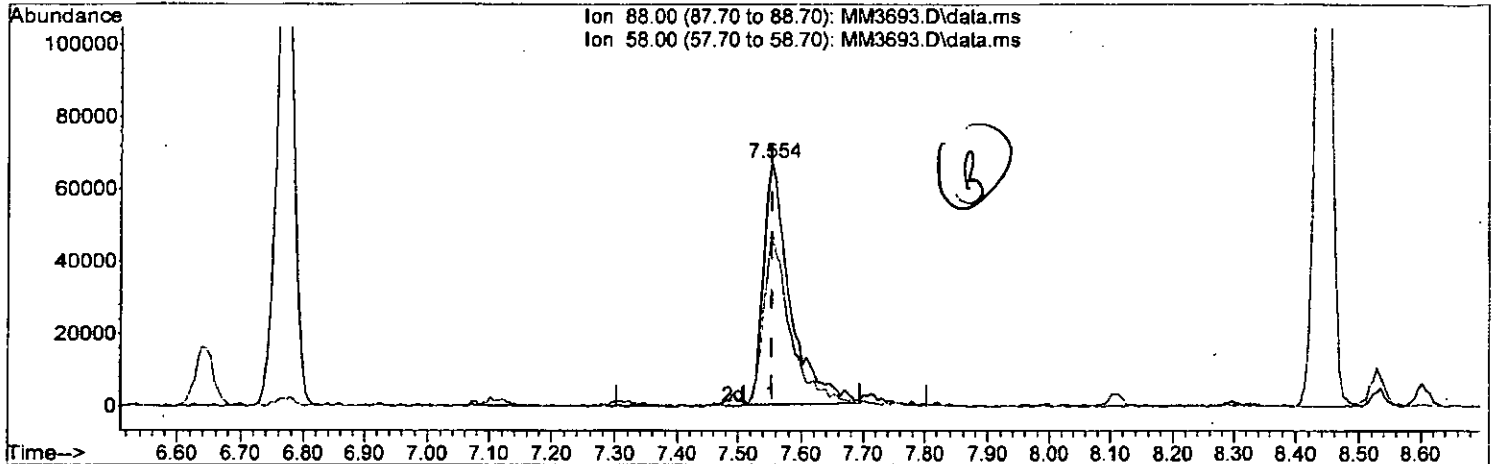
(#)=qualifier out of range (m)=manual integration (+)=signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3693.D
 Acq On : 4 Jun 2015 4:43 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:12 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3693.D\data.ms

(58) 1,4-Dioxane

7.554min (0.000) 3138.47 ppb

response 194196

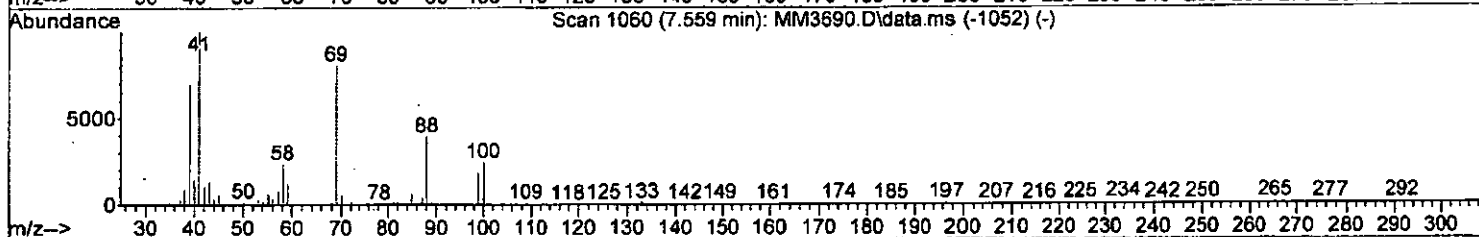
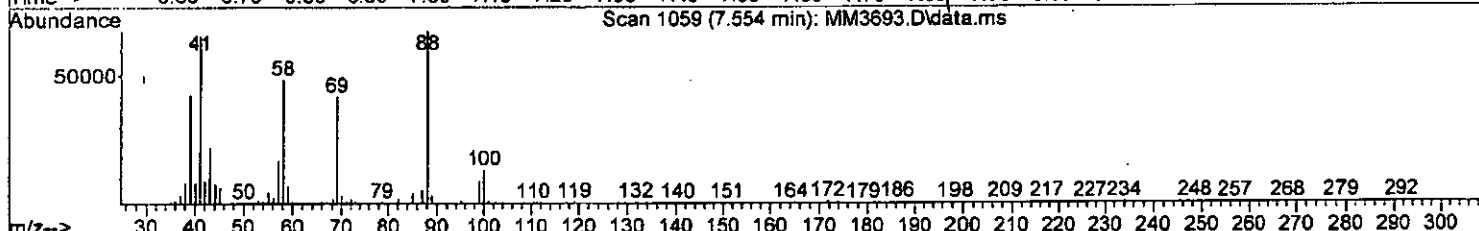
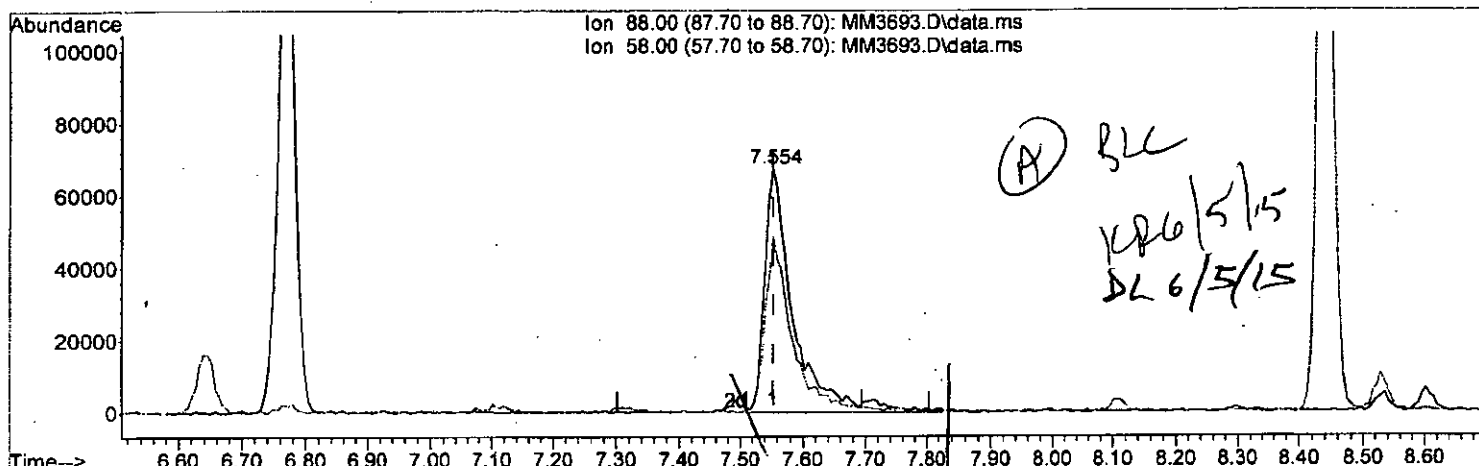
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	71.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3693.D
 Acq On : 4 Jun 2015 4:43 pm
 Operator : K.Ruest
 Sample : 200ppb
 Misc : 8260 WATER ICAL
 ALS Vial : 15 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 08:48:12 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 08:46:49 2015
 Response via : Initial Calibration



TIC: MM3693.D\data.ms

(58) 1,4-Dioxane

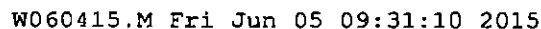
7.554min (0.000) 3421.85 ppb m

response 211730

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	71.90
0.00	0.00	0.00
0.00	0.00	0.00

Inst : MSVOA-12

TIC: MM3693.D\data.ms



Initial Calibration Verification Summary Report

x26/5/15

Calibration ID: RC1500064

Instrument ID:

R-MS-12

8260 Waters - W060415

Column Name:

1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
1,1,1,2-Tetrachloroethane	RC1500064-10	T	Average RF	50	46.93	ppm	-6.1	<=30
1,1,1-Trichloroethane (TCA)	RC1500064-10	T	Average RF	50	43.56	ppm	-12.9	<=30
1,1,2,2-Tetrachloroethane	RC1500064-10	T	Average RF	50	46.67	ppm	-6.7	<=30
1,1,2-Trichloroethane	RC1500064-10	T	Average RF	50	46.47	ppm	-7.1	<=30
1,1,2-Trichlorotrifluoroethane	RC1500064-10	T	Average RF	50	40.24	ppm	-19.5	<=30
1,1-Dichloroethane (1,1-DCA)	RC1500064-10	T	Average RF	50	45.02	ppm	-10.0	<=30
1,1-Dichloroethene (1,1-DCE)	RC1500064-10	T	Average RF	50	42.14	ppm	-15.7	<=30
1,1-Dichloropropene	RC1500064-10	T	Average RF	50	41.07	ppm	-17.9	<=30
1,2,3-Trichlorobenzene	RC1500064-10	T	Average RF	50	47.39	ppm	-5.2	<=30
1,2,3-Trichloropropane	RC1500064-10	T	Average RF	50	46.88	ppm	-6.2	<=30
1,2,4-Trichlorobenzene	RC1500064-10	T	Average RF	50	47.70	ppm	-4.6	<=30
1,2,4-Trimethylbenzene	RC1500064-10	T	Average RF	50	47.09	ppm	-5.8	<=30
1,2-Dibromo-3-chloropropane (DBCP)	RC1500064-10	T	Average RF	50	46.25	ppm	-7.5	<=30
1,2-Dibromoethane	RC1500064-10	T	Average RF	50	46.14	ppm	-7.7	<=30
1,2-Dichloro-1,1,2-trifluoroethane (CFC 123)	RC1500064-10	T	Average RF	50	47.68	ppm	-4.6	<=30
1,2-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.73	ppm	-6.5	<=30
1,2-Dichloroethane	RC1500064-10	T	Average RF	50	45.76	ppm	-8.5	<=30
1,2-Dichloropropane	RC1500064-10	T	Average RF	50	46.38	ppm	-7.2	<=30
1,3,5-Trichlorobenzene	RC1500064-10	T	Average RF	50	46.83	ppm	-6.3	<=30
1,3,5-Trimethylbenzene	RC1500064-10	T	Average RF	50	47.09	ppm	-5.8	<=30
1,3-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.16	ppm	-7.7	<=30
1,3-Dichloropropane	RC1500064-10	T	Average RF	50	47.33	ppm	-5.3	<=30
1,4-Dichlorobenzene	RC1500064-10	T	Average RF	50	46.14	ppm	-7.7	<=30
1,4-Dioxane	RC1500064-10	T	Average RF	1000	895.3	ppm	-10.5	<=30
1-Butanol	RC1500064-10	T	Average RF	2500	2597	ppm	3.9	<=30
1-Chloro-4-(trifluoromethyl)benzene	RC1500064-10	T	Average RF	50	43.45	ppm	-13.1	<=30
2,2-Dichloro-1,1,1-trifluoroethane (CFC 123)	RC1500064-10	T	Average RF	50	44.33	ppm	-11.3	<=30
2,2-Dichloropropane	RC1500064-10	T	Average RF	50	45.91	ppm	-8.2	<=30
2,3,6-Trichlorotoluene	RC1500064-10	T	Average RF	50	46.93	ppm	-6.1	<=30
2,4,5-Trichlorotoluene	RC1500064-10	T	Average RF	50	44.86	ppm	-10.3	<=30
2,4-, 2,5-, and 2,6-Dichlorotoluene Coelution	RC1500064-10	T	Average RF	150	136.9	ppm	-8.7	<=30
2,4-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	45.31	ppm	-9.4	<=30
2,5-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	44.36	ppm	-11.3	<=30
2-Butanone (MEK)	RC1500064-10	T	Average RF	50	53.76	ppm	7.5	<=30
2-Chloro-1,3-butadiene	RC1500064-10	T	Average RF	50	46.12	ppm	-7.8	<=30
2-Chlorobenzotrifluoride	RC1500064-10	T	Average RF	50	43.20	ppm	-13.6	<=30
2-Chloroethyl Vinyl Ether	RC1500064-10	T	Average RF	50	54.65	ppm	9.3	<=30
2-Chlorotoluene	RC1500064-10	T	Average RF	50	47.62	ppm	-4.8	<=30
2-Hexanone	RC1500064-10	T	Average RF	50	53.15	ppm	6.3	<=30
2-Methyl-1-propanol	RC1500064-10	T	Average RF	1000	945.5	ppm	-5.5	<=30
2-Methyl-2-propanol	RC1500064-10	T	Average RF	1000	1022	ppm	2.2	<=30
2-Nitropropane	RC1500064-10	T	Average RF	100	102.2	ppm	2.2	<=30
2-Propanol	RC1500064-10	T	Average RF	1000	989.0	ppm	-1.1	<=30
3,4- and 2,3-Dichlorotoluene Coelution	RC1500064-10	T	Average RF	100	94.50	ppm	-5.5	<=30
3,4-Dichlorobenzotrifluoride	RC1500064-10	T	Average RF	50	44.44	ppm	-11.1	<=30
3-Chloro-1-propene	RC1500064-10	T	Average RF	50	42.29	ppm	-15.4	<=30
3-Chlorobenzotrifluoride	RC1500064-10	T	Average RF	50	43.79	ppm	-12.4	<=30
3-Chlorotoluene	RC1500064-10	T	Average RF	50	46.04	ppm	-7.9	<=30
4-Chlorotoluene	RC1500064-10	T	Average RF	50	47.91	ppm	-4.2	<=30
4-Isopropyltoluene	RC1500064-10	T	Average RF	50	48.72	ppm	-2.6	<=30
4-Methyl-2-pentanone	RC1500064-10	T	Average RF	50	54.32	ppm	8.6	<=30

Initial Calibration Verification Summary Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Acetone	RC1500064-10	T	Average RF	50	48.09	ppm	-3.8	≤30
Acetonitrile	RC1500064-10	T	Average RF	250	212.4	ppm	-15.0	≤30
Acrolein	RC1500064-10	T	Average RF	100	92.70	ppm	-7.3	≤30
Acrylonitrile	RC1500064-10	T	Average RF	250	239.7	ppm	-4.1	≤30
Benzene	RC1500064-10	T	Average RF	50	45.38	ppm	-9.2	≤30
Bromobenzene	RC1500064-10	T	Average RF	50	46.57	ppm	-6.9	≤30
Bromochloromethane	RC1500064-10	T	Average RF	50	44.30	ppm	-11.4	≤30
Bromodichloromethane	RC1500064-10	T	Average RF	50	45.67	ppm	-8.7	≤30
Bromoform	RC1500064-10	T	Average RF	50	48.36	ppm	-3.3	≤30
Bromomethane	RC1500064-10	T	Average RF	50	46.36	ppm	-7.3	≤30
Carbon Disulfide	RC1500064-10	T	Average RF	50	51.12	ppm	2.2	≤30
Carbon Tetrachloride	RC1500064-10	T	Average RF	50	43.47	ppm	-13.1	≤30
Chlorobenzene	RC1500064-10	T	Average RF	50	45.28	ppm	-9.4	≤30
Chloroethane	RC1500064-10	T	Average RF	50	43.89	ppm	-12.2	≤30
Chloroform	RC1500064-10	T	Average RF	50	46.10	ppm	-7.8	≤30
Chloromethane	RC1500064-10	T	Average RF	50	50.91	ppm	1.8	≤30
Cyclohexane	RC1500064-10	T	Average RF	50	42.57	ppm	-14.9	≤30
Cyclohexanone	RC1500064-10	T	Average RF	1000	1049	ppm	4.9	≤30
Dibromochloromethane	RC1500064-10	T	Average RF	50	47.34	ppm	-5.3	≤30
Dibromomethane	RC1500064-10	T	Average RF	50	45.33	ppm	-9.3	≤30
Dichlorodifluoromethane (CFC 12)	RC1500064-10	T	Average RF	50	48.08	ppm	-3.8	≤30
Dichlorofluoromethane (CFC 21)	RC1500064-10	T	Average RF	50	49.81	ppm	-0.4	≤30
Dichloromethane	RC1500064-10	T	Average RF	50	45.57	ppm	-8.9	≤30
Diethyl Ether	RC1500064-10	T	Average RF	50	48.17	ppm	-3.7	≤30
Diisopropyl Ether	RC1500064-10	T	Average RF	50	44.89	ppm	-10.2	≤30
Ethyl Methacrylate	RC1500064-10	T	Average RF	50	50.85	ppm	1.7	≤30
Ethyl tert-Butyl Ether	RC1500064-10	T	Average RF	50	44.40	ppm	-11.2	≤30
Ethylbenzene	RC1500064-10	T	Average RF	50	40.64	ppm	-18.7	≤30
Hexachlorobutadiene	RC1500064-10	T	Average RF	50	42.46	ppm	-15.1	≤30
Iodomethane	RC1500064-10	T	Linear	50	50.52	ppm	1.0	≤30
Isopropylbenzene (Cumene)	RC1500064-10	T	Average RF	50	46.43	ppm	-7.1	≤30
Methacrylonitrile	RC1500064-10	T	Average RF	50	47.39	ppm	-5.2	≤30
Methyl Acetate	RC1500064-10	T	Average RF	50	48.47	ppm	-3.1	≤30
Methyl Methacrylate	RC1500064-10	T	Average RF	50	50.46	ppm	0.9	≤30
Methyl tert-Butyl Ether	RC1500064-10	T	Average RF	50	48.14	ppm	-3.7	≤30
Methylcyclohexane	RC1500064-10	T	Average RF	50	44.67	ppm	-10.7	≤30
Naphthalene	RC1500064-10	T	Average RF	50	48.04	ppm	-3.9	≤30
Propionitrile	RC1500064-10	T	Average RF	250	245.6	ppm	-1.8	≤30
Styrene	RC1500064-10	T	Average RF	50	46.92	ppm	-6.2	≤30
Tetrachloroethene (PCE)	RC1500064-10	T	Average RF	50	43.28	ppm	-13.4	≤30
Tetrahydrofuran (THF)	RC1500064-10	T	Average RF	50	49.97	ppm	-0.1	≤30
Toluene	RC1500064-10	T	Average RF	50	45.73	ppm	-8.5	≤30
Trichloroethene (TCE)	RC1500064-10	T	Average RF	50	47.00	ppm	-6.0	≤30
Trichlorofluoromethane (CFC 11)	RC1500064-10	T	Average RF	50	45.37	ppm	-9.3	≤30
Vinyl Acetate	RC1500064-10	T	Average RF	50	41.95	ppm	-16.1	≤30
Vinyl Chloride	RC1500064-10	T	Average RF	50	47.03	ppm	-5.9	≤30
cis-1,2-Dichloroethene	RC1500064-10	T	Average RF	50	46.28	ppm	-7.4	≤30
cis-1,3-Dichloropropene	RC1500064-10	T	Average RF	50	46.01	ppm	-8.0	≤30
m,p-Xylenes	RC1500064-10	T	Average RF	100	92.35	ppm	-7.7	≤30
n-Butyl Acetate	RC1500064-10	T	Average RF	50	48.43	ppm	-3.1	≤30
n-Butylbenzene	RC1500064-10	T	Average RF	50	46.79	ppm	-6.4	≤30

Initial Calibration Verification Summary Report

Calibration ID: RC1500064

Instrument ID: R-MS-12

Column Name: 1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
n-Heptane	RC1500064-10	T	Average RF	50	44.29	ppm	-11.4	≤30
n-Propylbenzene	RC1500064-10	T	Average RF	50	47.20	ppm	-5.6	≤30
o-Xylene	RC1500064-10	T	Average RF	50	46.24	ppm	-7.5	≤30
sec-Butylbenzene	RC1500064-10	T	Average RF	50	46.41	ppm	-7.2	≤30
tert-Amyl Methyl Ether	RC1500064-10	T	Average RF	50	47.81	ppm	-4.4	≤30
tert-Butylbenzene	RC1500064-10	T	Average RF	50	45.74	ppm	-8.5	≤30
trans-1,2-Dichloroethene	RC1500064-10	T	Average RF	50	44.34	ppm	-11.3	≤30
trans-1,3-Dichloropropene	RC1500064-10	T	Average RF	50	46.77	ppm	-6.5	≤30
trans-1,4-Dichloro-2-butene	RC1500064-10	T	Average RF	50	50.67	ppm	1.3	≤30
1,2-Dichloroethane-d4	RC1500064-10	S	Average RF	50	54.74	ppm	9.5	≤30
4-Bromofluorobenzene	RC1500064-10	S	Average RF	50	55.41	ppm	10.8	≤30
Dibromofluoromethane	RC1500064-10	S	Average RF	50	53.92	ppm	7.8	≤30
Toluene-d8	RC1500064-10	S	Average RF	50	54.34	ppm	8.7	≤30

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3698.D
 Acq On : 4 Jun 2015 7:15 pm
 Operator : K.Ruest
 Sample : ICV
 Misc : 8260 WATER ICAL
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 14:26:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	933266	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1536667	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1464134	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	787899	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4, Dibrflmethane	5.597	113	448404	53.92	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	107.84%
48) surr1, 1,2-dichloroetha...	6.096	65	486270	54.74	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	109.48%
65) SURR3, Toluene-d8	8.529	98	1973682	54.34	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	108.68%
70) SURR2, BFB	11.047	95	764583	55.41	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	110.82%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	382840	48.08	ppb	99
3) Chloromethane	1.341	50	394228	50.91	ppb	99
4) Vinyl Chloride	1.427	62	459961	47.03	ppb	99
5) Bromomethane	1.683	94	257410	46.36	ppb	96
6) Chloroethane	1.762	64	284816	43.89	ppb	98
7) Freon 21	1.927	67	807103	49.81	ppb	100
8) Trichlorofluoromethane	1.975	101	661246	45.37	ppb	99
9) Diethyl Ether	2.231	59	310478	48.17	ppb	99
10) Freon 123a	2.237	67	493110	47.68	ppb	98
11) Freon 123	2.292	83	532587	44.33	ppb	99
12) Acrolein	2.335	56	62290	92.70	ppb	96
13) 1,1-Dichloroethene	2.433	96	289205	42.14	ppb	99
14) Freon 113	2.439	101	273446	40.24	ppb	91
15) Acetone	2.494	43	62908	48.09	ppb	88
16) 2-Propanol	2.652	45	256966	989.04	ppb	98
17) Iodomethane	2.573	142	424791	50.52	ppb	99
18) Carbon Disulfide	2.634	76	1124306	51.12	ppb	100
19) Acetonitrile	2.762	40	35673	212.45	ppb	95
20) Allyl Chloride	2.792	76	174659	42.29	ppb	# 89
21) Methyl Acetate	2.829	43	138075	48.47	ppb	92
22) Methylene Chloride	2.920	84	332423	45.57	ppb	95
23) TBA	3.091	59	473610	1022.00	ppb	98
24) Acrylonitrile	3.207	53	356466	239.74	ppb	98
25) Methyl-t-Butyl Ether	3.262	73	858469	48.14	ppb	99
26) trans-1,2-Dichloroethene	3.243	96	340051	44.34	ppb	96
28) 1,1-Dichloroethane	3.792	63	570408	45.02	ppb	97
29) Vinyl Acetate	3.902	86	63727	41.95	ppb	# 69
30) DIPE	3.944	45	988789	44.89	ppb	99
31) 2-Chloro-1,3-Butadiene	3.926	53	635980	46.12	ppb	97
32) ETBE	4.524	59	974710	44.40	ppb	98
33) 2,2-Dichloropropane	4.706	77	554171	45.91	ppb	99
34) cis-1,2-Dichloroethene	4.719	96	378369	46.28	ppb	93
35) 2-Butanone	4.774	43	92433	53.76	ppb	89
36) Propionitrile	4.871	54	128928	245.60	ppb	97

KR
6/5/15

Data Path : I:\ACQUDATA\msvoal2\Data\060415\
 Data File : MM3698.D
 Acq On : 4 Jun 2015 7:15 pm
 Operator : K.Ruest
 Sample : ICV
 Misc : 8260 WATER ICAL
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 14:26:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.139	130	200231	44.30	ppb	89
38) Methacrylonitrile	5.158	67	92857	47.39	ppb #	84
39) Tetrahydrofuran	5.237	42	58438	49.97	ppb #	72
40) Chloroform	5.328	83	615555	46.10	ppb	97
41) 1,1,1-Trichloroethane	5.597	97	559402	43.56	ppb	97
42) TAME	6.407	73	915414	47.81	ppb	97
44) Cyclohexane	5.676	41	297117	42.57	ppb	98
46) Carbontetrachloride	5.859	121	145368	43.47	ppb	100
47) 1,1-Dichloropropene	5.871	75	434322	41.07	ppb	95
49) Benzene	6.170	78	1382046	45.38	ppb	97
50) 1,2-Dichloroethane	6.212	62	446747	45.76	ppb	97
51) Iso-Butyl Alcohol	6.212	43	191258	945.46	ppb	97
52) n-Heptane	6.645	43	287285	44.29	ppb	98
53) 1-Butanol	7.121	56	333608	2596.89	ppb	100
54) Trichloroethene	7.084	130	386383	47.00	ppb	96
55) Methylcyclohexane	7.316	55	343445	44.67	ppb	97
56) 1,2-Dichloropropane	7.352	63	337861	46.38	ppb	97
57) Dibromomethane	7.493	93	177852	45.33	ppb	94
58) 1,4-Dioxane	7.553	88	52401m	895.30	ppb	
59) Methyl Methacrylate	7.578	69	179285	50.46	ppb	99
60) Bromodichloromethane	7.712	83	480034	45.67	ppb	99
61) 2-Nitropropane	7.986	41	138965	102.24	ppb	99
62) 2-Chloroethylvinyl Ether	8.108	63	183743	54.65	ppb	92
63) cis-1,3-Dichloropropene	8.242	75	563027	46.01	ppb	97
64) 4-Methyl-2-pentanone	8.444	43	225563	54.32	ppb	94
66) Toluene	8.602	91	1597639	45.73	ppb	100
67) trans-1,3-Dichloropropene	8.864	75	489796	46.77	ppb	99
68) Ethyl Methacrylate	8.998	69	386457	50.85	ppb	99
69) 1,1,2-Trichloroethane	9.047	97	261832	46.47	ppb	96
72) Tetrachloroethene	9.181	164	290647	43.28	ppb	98
73) 2-Hexanone	9.328	43	157535	53.15	ppb	98
74) 1,3-Dichloropropane	9.212	76	455072	47.33	ppb	99
75) Dibromochloromethane	9.437	129	342627	47.34	ppb	97
76) N-Butyl Acetate	9.480	43	377056	48.43	ppb	98
77) 1,2-Dibromoethane	9.529	107	261923	46.14	ppb	100
78) Chlorobenzene	10.016	112	1079277	45.28	ppb	98
79) 3-CBTF	10.035	180	492039	43.79	ppb	98
80) 4-CBTF	10.083	180	442250	43.45	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	376229	46.93	ppb	97
82) Ethylbenzene	10.132	106	524339	40.64	ppb	99
83) (m+p)Xylene	10.242	106	1452189	92.35	ppb	97
84) o-Xylene	10.596	106	704133	46.24	ppb	99
85) Styrene	10.608	104	1226316	46.92	ppb	98
87) Bromoform	10.760	173	195054	48.36	ppb	95
88) 2-CBTF	10.839	180	493795	43.20	ppb	93
89) Isopropylbenzene	10.925	105	1698367	46.43	ppb	100
90) Cyclohexanone	10.986	55	227479	1049.18	ppb	88
91) trans-1,4-Dichloro-2-B...	11.230	53	99704	50.67	ppb	98
92) 1,1,2,2-Tetrachloroethane	11.181	83	310744	46.67	ppb	97
93) Bromobenzene	11.175	156	424753	46.57	ppb	96
94) 1,2,3-Trichloropropane	11.211	110	94956	46.88	ppb	93

Data Path : I:\ACQUDATA\msvoa12\Data\060415\

Data File : MM3698.D

Acq On : 4 Jun 2015 7:15 pm

Operator : K.Ruest

Sample : ICV

Inst : MSVOA-12

Misc : 8260 WATER ICAL

ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 05 14:26:41 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	1942967	47.20	ppb	99
96) 2-Chlorotoluene	11.345	91	1208163	47.62	ppb	98
97) 3-Chlorotoluene	11.394	91	1237573	46.04	ppb	99
98) 4-Chlorotoluene	11.437	91	1502715	47.91	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	1475780	47.09	ppb	99
100) tert-Butylbenzene	11.699	119	1154884	45.74	ppb	98
101) 1,2,4-Trimethylbenzene	11.742	105	1489706	47.09	ppb	99
102) 3,4-DCBTF	11.803	214	332530	44.44	ppb	95
103) sec-Butylbenzene	11.882	105	1606478	46.41	ppb	99
104) p-Isopropyltoluene	12.004	119	1434444	48.72	ppb	98
105) 1,3-Dclbenz	11.967	146	818372	46.16	ppb	98
106) 1,4-Dclbenz	12.040	146	851993	46.14	ppb	99
107) 2,4-DCBTF	12.089	214	299167	45.31	ppb	99
108) 2,5-DCBTF	12.126	214	329380	44.36	ppb	96
109) n-Butylbenzene	12.333	91	1236427	46.79	ppb	99
110) 1,2-Dclbenz	12.339	146	774406	46.73	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.955	157	62318	46.25	ppb	92
112) Trielution Dichlorotol...	13.077	125	1910671	136.91	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	486687	46.83	ppb	99
114) Coelution Dichlorotoluene	13.406	125	1412953	94.50	ppb	99
115) 1,2,4-Tcbenzene	13.613	180	454020	47.70	ppb	99
116) Hexachlorobt	13.747	225	155599	42.46	ppb	96
117) Naphthalen	13.802	128	959616	48.04	ppb	99
118) 1,2,3-Tclbenzene	13.991	180	368809	47.39	ppb	98
119) 2,4,5-Trichlorotolene	14.570	159	279114	44.86	ppb	95
120) 2,3,6-Trichlorotoluene	14.656	159	251085	46.93	ppb	99

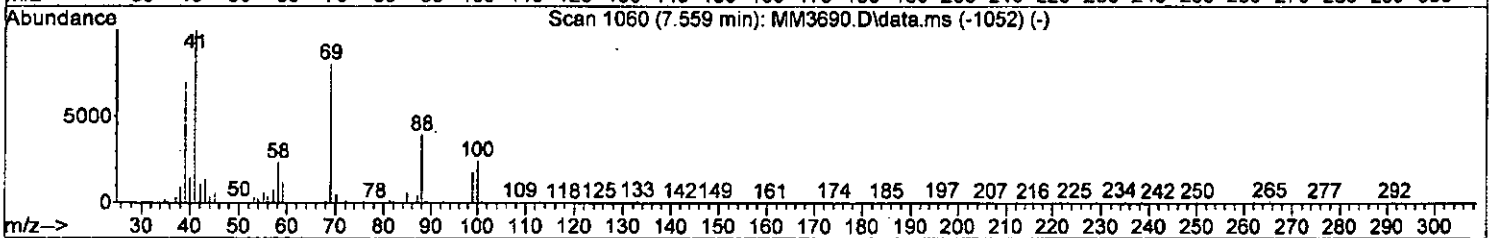
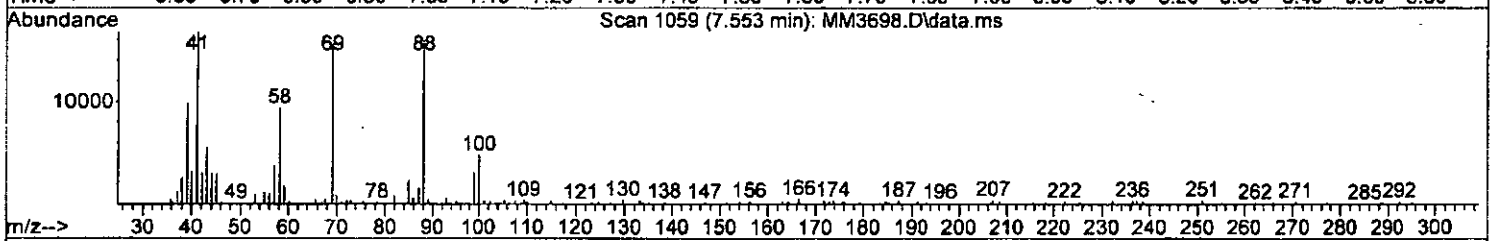
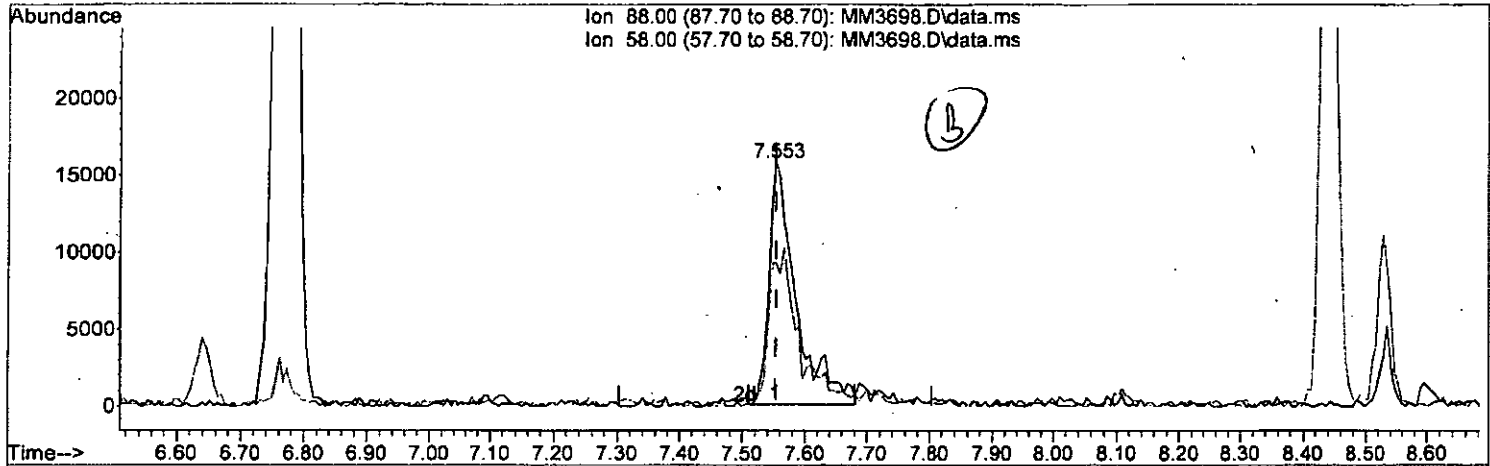
(#)= qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
Data File : MM3698.D
Acq On : 4 Jun 2015 7:15 pm
Operator : K.Ruest
Sample : ICV
Misc : 8260 WATER ICAL
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 10:27:43 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 10:26:54 2015
Response via : Initial Calibration



TIC: MM3698.D\data.ms

(58) 1,4-Dioxane

7.553min (-0.000) 799.64 ppb

response 46802

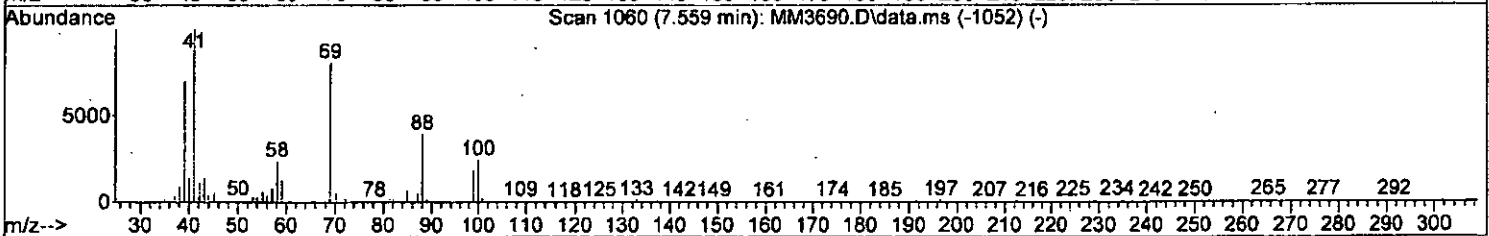
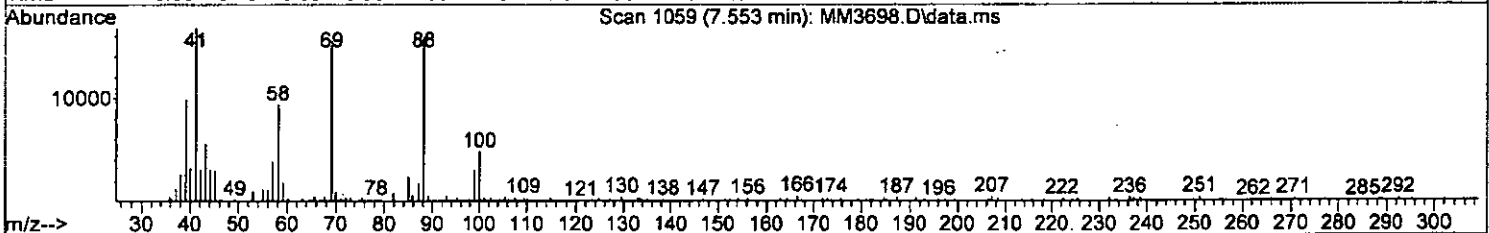
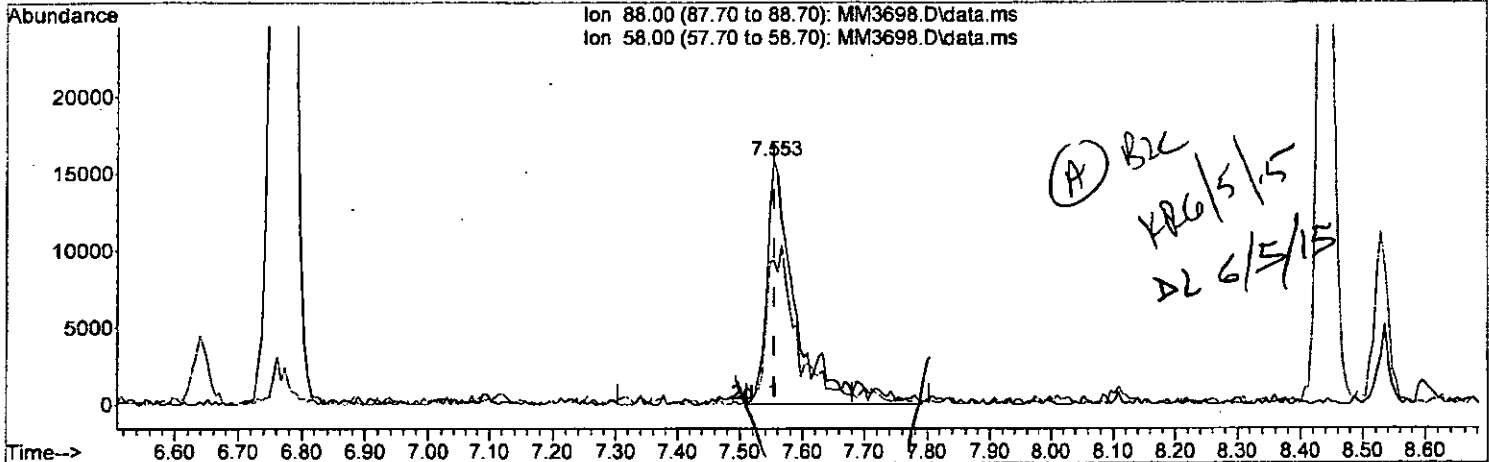
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	59.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3698.D
 Acq On : 4 Jun 2015 7:15 pm
 Operator : K.Ruest
 Sample : ICV
 Misc : 8260 WATER ICAL
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 05 10:27:43 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 10:26:54 2015
 Response via : Initial Calibration



TIC: MM3698.D\data.ms

(58) 1,4-Dioxane

7.553min (-0.000) 895.30 ppb m

response 52401

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	59.05
0.00	0.00	0.00
0.00	0.00	0.00

(QT Reviewed)

Inst : MSVOA-12

[illegible]

Data Path : I:\ACQUDATA\msvoal2\Data\062815\

Data File : MM4317.D

Acq On : 28 Jun 2015 9:54 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:12:59 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

K8
6/28/15

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	102	0.00
2 P	Dichlorodifluoromethane	0.4266	0.4697	-10.1	109	0.00
3 P	Chloromethane	0.4149	0.4356	-5.0	109	0.00
4 P	Vinyl Chloride	0.5240	0.5406	-3.2	106	0.00
5 P	Bromomethane	0.2975	0.3141	-5.6	114	0.01
6 P	Chloroethane	0.3477	0.3299	5.1	101	0.00
7	Freon 21	0.8681	0.9006	-3.7	107	0.00
8 P	Trichlorofluoromethane	0.7809	0.7106	9.0	93	0.00
9	Diethyl Ether	0.3453	0.3447	0.2	103	0.00
10	Freon 123a	0.5540	0.5534	0.1	105	0.00
11	Freon 123	0.6437	0.6358	1.2	104	0.00
12	Acrolein	0.0360	0.0084	41.5	26.7#	22# 0.00
13 P	1,1-Dichloroethene	0.3677	0.3706	-0.8	108	0.00
14 P	Freon 113	0.3640	0.3772	-3.6	111	0.00
15 P	Acetone	0.0701	0.0801	-14.3	126	0.00
16	2-Propanol	0.0139	0.0153	-10.1	108	0.00
17	Iodomethane	0.3852	0.2668	39.8	30.7#	61 0.00
18 P	Carbon Disulfide	1.1784	1.1463	2.7	104	0.00
19	Acetonitrile	0.0090	0.0085	5.6	104	0.02
20	Allyl Chloride	0.2213	0.2304	-4.1	108	0.00
21 P	Methyl Acetate	0.1526	0.1694	-11.0	112	0.00
22 P	Methylene Chloride	0.3908	0.4149	-6.2	112	0.00
23	TBA	0.0248	0.0275	-10.9	105	0.00
24	Acrylonitrile	0.0797	0.0899	-12.8	115	0.00
25 P	Methyl-t-Butyl Ether	0.9554	1.0274	-7.5	106	0.00
26 P	trans-1,2-Dichloroethene	0.4109	0.4293	-4.5	111	0.00
27	Halothane	0.0000	0.0000	0.0	196	0.00
28 P	1,1-Dichloroethane	0.6788	0.6923	-2.0	108	0.00
29	Vinyl Acetate	0.0814	0.0752	7.6	96	0.00
30	DIPE	1.1802	1.2012	-1.8	107	0.00
31	2-Chloro-1,3-Butadiene	0.7387	0.7120	3.6	101	0.00
32	ETBE	1.1762	1.1569	1.6	103	0.00
33	2,2-Dichloropropane	0.6467	0.6576	-1.7	103	0.00
34 P	cis-1,2-Dichloroethene	0.4380	0.4661	-6.4	111	0.00
35 P	2-Butanone	0.0921	0.1099	-19.3	115	0.00
36	Propionitrile	0.0281	0.0322	-14.6	109	0.00
37	Bromochloromethane	0.2421	0.2549	-5.3	109	0.00
38	Methacrylonitrile	0.1050	0.1161	-10.6	117	0.00
39	Tetrahydrofuran	0.0626	0.0695	-11.0	121	0.00
40 P	Chloroform	0.7154	0.7299	-2.0	109	0.00
41 P	1,1,1-Trichloroethane	0.6880	0.6693	2.7	104	0.00
42	TAME	1.0258	1.0721	-4.5	106	0.00
43 I	1,4-Difluorobenzene	1.0000	1.0000	0.0	103	0.00
44 P	Cyclohexane	0.2271	0.2254	0.7	106	0.00
45 s	surr4,Dibromomethane	0.2706	0.2934	-8.4	103	0.00
46 P	Carbontetrachloride	0.1088	0.1004	7.7	98	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:12:59 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
47	1,1-Dichloropropene	0.3441	0.3308	3.9	105	0.00
48 s	surrl,1,2-dichloroethane-d4	0.2890	0.3073	-6.3	101	0.00
49 P	Benzene	0.9909	1.0360	-4.6	111	0.00
50 P	1,2-Dichloroethane	0.3177	0.3047	4.1	103	0.00
51	Iso-Butyl Alcohol	0.0066	0.0068	-3.0	108	0.00
52	n-Heptane	0.2111	0.2094	0.8	105	0.00
53	1-Butanol	0.0042	0.0048	-14.3	114	0.00
54 P	Trichloroethene	0.2675	0.2776	-3.8	109	0.00
55 P	Methylcyclohexane	0.2502	0.2744	-9.7	112	0.00
56 P	1,2-Diclp propane	0.2370	0.2356	0.6	105	0.00
57	Dibromomethane	0.1277	0.1304	-2.1	110	0.00
58	1,4-Dioxane	0.0019	0.0019	0.0	115	0.00
59	Methyl Methacrylate	0.1156	0.1205	-4.2	105	0.00
60 P	Bromodichloromethane	0.3420	0.3412	0.2	107	0.00
61	2-Nitropropane	0.0442	0.0350	MT 20.8#	79	0.00
62	2-Chloroethylvinyl Ether	0.1094	0.1117	-2.1	100	0.00
63 P	cis-1,3-Dichloropropene	0.3982	0.4020	-1.0	105	0.00
64 P	4-Methyl-2-pentanone	0.1351	0.1455	-7.7	106	0.00
65 s	SURR3,Toluene-d8	1.1817	1.2792	-8.3	103	0.00
66 P	Toluene	1.1367	1.1809	-3.9	109	0.00
67 P	trans-1,3-Dichloropropene	0.3408	0.3452	-1.3	103	0.00
68	Ethyl Methacrylate	0.2473	0.2554	-3.3	105	0.00
69 P	1,1,2-Trichloroethane	0.1833	0.1948	-6.3	112	0.00
70 s	SURR2,BFB	0.4490	0.5040	-12.2	104	0.00
71 I	d5-Chlorobenzene	1.0000	1.0000	0.0	108	0.00
72 P	Tetrachloroethene	0.2293	0.2154	6.1	110	0.00
73 P	2-Hexanone	0.1012	0.1019	-0.7	102	0.00
74	1,3-Dichloropropane	0.3283	0.3517	-7.1	110	0.00
75 P	Dibromochloromethane	0.2472	0.2312	6.5	100	0.00
76	N-Butyl Acetate	0.2659	0.2552	4.0	100	0.00
77 P	1,2-Dibromoethane	0.1939	0.1993	-2.8	111	0.00
78 P	Chlorobenzene	0.8139	0.7961	2.2	107	0.00
79	3-CBTF	0.3837	0.7971	-107.7#	234#	0.00
80	4-CBTF	0.3476	0.7093	-104.1#	231#	0.00
81	1,1,1,2-Tetrachloroethane	0.2738	0.2885	-5.4	116	0.00
82 P	Ethylbenzene	0.4406	0.4355	1.2	109	0.00
83 P	(m+p)Xylene	0.5370	0.5346	0.4	107	0.00
84 P	o-Xylene	0.5200	0.5228	-0.5	108	0.00
85 P	Styrene	0.8926	0.8924	0.0	108	0.00
86 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	116	0.00
87 P	Bromoform	0.2560	0.2254	12.0	101	0.00
88	2-CBTF	0.7253	1.3347	-84.0#	238#	0.00
89 P	Isopropylbenzene	2.3212	2.1755	6.3	111	0.00
90	Cyclohexanone	0.0138	0.0350	MT -153.6#	278#	0.00
91	trans-1,4-Dichloro-2-Butene	0.1249	0.1136	9.0	106	0.00

spike 2x (10ul)

spike 2x (10ul)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:12:59 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area	% Dev(min)
92 P	1,1,2,2-Tetrachloroethane	0.4225	0.4197	0.7 117	0.00
93	Bromobenzene	0.5788	0.5381	7.0 110	0.00
94	1,2,3-Trichloropropane	0.1286	0.1257	2.3 118	0.00
95	n-Propylbenzene	2.6124	2.5441	2.6 112	0.00
96	2-Chlorotoluene	1.6100	1.5325	4.8 111	0.00
97	3-Chlorotoluene	1.7057	3.3244	-94.9# 240#	0.00 *
98	4-Chlorotoluene	1.9904	1.8258	8.3 106	0.00
99	1,3,5-Trimethylbenzene	1.9889	1.9056	4.2 112	0.00
100	tert-Butylbenzene	1.6024	1.5104	5.7 113	0.00
101	1,2,4-Trimethylbenzene	2.0077	1.9327	3.7 113	0.00
102	3,4-DCBTF	0.4749	0.9489	-99.8# 248#	0.00 *
103	sec-Butylbenzene	2.1969	2.1564	1.8 115	0.00
104	p-Isopropyltoluene	1.8686	1.8598	0.5 115	0.00
105 P	1,3-Dclbenz	1.1251	1.1072	1.6 117	0.00
106 P	1,4-Dclbenz	1.1719	1.1408	2.7 116	0.00
107	2,4-DCBTF	0.4190	0.8607	-105.4# 255#	0.00 *
108	2,5-DCBTF	0.4712	0.9745	-106.8# 252#	0.00 *
109	n-Butylbenzene	1.6769	1.6330	2.6 114	0.00
110 P	1,2-Dclbenz	1.0516	1.0400	1.1 116	0.00
111 P	1,2-Dibromo-3-chloropropane	0.0855	0.0844	1.3 114	0.00
112	Trielution Dichlorotoluene	0.8856	1.7766	-100.6# 246#	0.00 *
113	1,3,5 Trichlorobenzene	0.6596	1.3714	-107.9# 250#	0.00 *
114	Coelution Dichlorotoluene	0.9488	1.9489	-105.4# 249#	0.00 *
115 P	1,2,4-Tclbenzene	0.6041	0.6047	-0.1 117	0.00
116	Hexachlorobt	0.2326	0.2088	10.2 111	0.00
117	Naphthalen	1.2677	1.3526	-6.7 120	0.00
118	1,2,3-Tclbenzene	0.4939	0.5242	-6.1 121	0.00
119	2,4,5-Trichlorotoluene	0.3948	0.7279	-84.4# 230#	0.00 *
120	2,3,6-Trichlorotoluene	0.3395	0.6211	-82.9# 218#	0.00 *

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

* Spike 2x (10mL) CCC
 - not this run.

Data Path : I:\ACQUDATA\msvoal2\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV *RQ1507088-02*
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:12:59 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	961774	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1611080	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1583751	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	940332	50.00	ppb	0.00

System Monitoring Compounds						
45) surr4, Dibrflmethane	5.603	113	472744	54.23	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	108.46%
48) surr1, 1,2-dichloroetha...	6.102	65	495113	53.17	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	106.34%
65) SURR3, Toluene-d8	8.535	98	2060887	54.12	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	108.24%
70) SURR2, BFB	11.053	95	811976	56.12	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	112.24%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.213	85	451785m	55.05	ppb	
3) Chloromethane	1.347	50	418950	52.50	ppb	99
4) Vinyl Chloride	1.433	62	519892	51.58	ppb	94
5) Bromomethane	1.689	94	302089	52.79	ppb	99
6) Chloroethane	1.768	64	317299	47.44	ppb	97
7) Freon 21	1.926	67	866132	51.87	ppb	98
8) Trichlorofluoromethane	1.975	101	683424	45.50	ppb	99
9) Diethyl Ether	2.231	59	331570	49.92	ppb	96
10) Freon 123a	2.237	67	532267	49.94	ppb	93
11) Freon 123	2.298	83	611538	49.39	ppb	98
12) Acrolein	2.341	56	40500m	58.49	ppb	
13) 1,1-Dicethene	2.432	96	356411	50.39	ppb	95
14) Freon 113	2.445	101	362805	51.81	ppb	97
15) Acetone	2.487	43	77079	57.17	ppb	92
16) 2-Propanol	2.646	45	294796	1101.01	ppb	98
17) Iodomethane	2.573	142	256611	30.12	ppb	92
18) Carbon Disulfide	2.634	76	1102448	48.64	ppb	98
19) Acetonitrile	2.774	40	40727m	235.36	ppb	
20) Allyl Chloride	2.798	76	221619	52.06	ppb	# 78
21) Methyl Acetate	2.829	43	162931	55.50	ppb	95
22) Methylene Chloride	2.926	84	399063	53.09	ppb	97
23) TBA	3.091	59	528858	1107.39	ppb	100
24) Acrylonitrile	3.213	53	432158	282.03	ppb	93
25) Methyl-t-Butyl Ether	3.261	73	988126	53.77	ppb	98
26) trans-1,2-Dichloroethene	3.249	96	412862	52.24	ppb	97
28) 1,1-Dicethane	3.792	63	665861	50.99	ppb	95
29) Vinyl Acetate	3.908	86	72318	46.19	ppb	# 70
30) DIPE	3.950	45	1155329	50.89	ppb	94
31) 2-Chloro-1,3-Butadiene	3.932	53	684740	48.19	ppb	91
32) ETBE	4.530	59	1112701	49.18	ppb	99
33) 2,2-Dichloropropane	4.706	77	632420	50.84	ppb	98
34) cis-1,2-Dichloroethene	4.719	96	448248	53.20	ppb	96
35) 2-Butanone	4.786	43	105721	59.67	ppb	93
36) Propionitrile	4.865	54	154765	286.07	ppb	91

KR
6/28/15

Data Path : I:\ACQUDATA\msvoa12\Data\062815\

Data File : MM4317.D

Acq On : 28 Jun 2015 9:54 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:12:59 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.151	130	245121	52.63	ppb	91
38) Methacrylonitrile	5.157	67	111639	55.29	ppb	# 74
39) Tetrahydrofuran	5.237	42	66858	55.48	ppb	83
40) Chloroform	5.328	83	701983	51.01	ppb	99
41) 1,1,1-Trichloroethane	5.596	97	643737	48.65	ppb	95
42) TAME	6.407	73	1031099	52.26	ppb	94
44) Cyclohexane	5.682	41	363121	49.62	ppb	95
46) Carbontetrachloride	5.859	121	161682	46.12	ppb	96
47) 1,1-Dichloropropene	5.877	75	532947	48.07	ppb	96
49) Benzene	6.176	78	1669082	52.28	ppb	98
50) 1,2-Dichloroethane	6.212	62	490853	47.96	ppb	97
51) Iso-Butyl Alcohol	6.206	43	219067	1032.91	ppb	93
52) n-Heptane	6.645	43	337418	49.62	ppb	94
53) 1-Butanol	7.120	56	386602	2870.41	ppb	100
54) Trichloroethene	7.084	130	447269	51.89	ppb	98
55) Methylcyclohexane	7.316	55	442038	54.83	ppb	95
56) 1,2-Dichloropropane	7.358	63	379515	49.69	ppb	99
57) Dibromomethane	7.492	93	210119	51.08	ppb	93
58) 1,4-Dioxane	7.547	88	62600	1020.15	ppb	90
59) Methyl Methacrylate	7.578	69	194060	52.09	ppb	93
60) Bromodichloromethane	7.712	83	549689	49.88	ppb	99
61) 2-Nitropropane	7.986	41	112742	79.11	ppb	93
62) 2-Chloroethylvinyl Ether	8.108	63	180035	51.08	ppb	91
63) cis-1,3-Dichloropropene	8.242	75	647602	50.48	ppb	97
64) 4-Methyl-2-pentanone	8.437	43	234490	53.86	ppb	95
66) Toluene	8.602	91	1902517	51.94	ppb	99
67) trans-1,3-Dichloropropene	8.864	75	556212	50.66	ppb	98
68) Ethyl Methacrylate	8.998	69	411434	51.63	ppb	89
69) 1,1,2-Trichloroethane	9.047	97	313768	53.11	ppb	94
72) Tetrachloroethene	9.181	164	341098	46.96	ppb	96
73) 2-Hexanone	9.327	43	161326	50.32	ppb	96
74) 1,3-Dichloropropane	9.212	76	556958	53.56	ppb	98
75) Dibromochloromethane	9.437	129	366112	46.76	ppb	97
76) N-Butyl Acetate	9.480	43	404096	47.98	ppb	96
77) 1,2-Dibromoethane	9.529	107	315575	51.39	ppb	99
78) Chlorobenzene	10.016	112	1260864	48.91	ppb	98
79) 3-CBTF	10.035	180	1262345	103.85	ppb	97
80) 4-CBTF	10.083	180	1123308	102.02	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	456885	52.69	ppb	97
82) Ethylbenzene	10.132	106	689718	49.42	ppb	98
83) (m+p)Xylene	10.242	106	1693241	99.55	ppb	99
84) o-Xylene	10.595	106	827944	50.26	ppb	95
85) Styrene	10.608	104	1413373	49.99	ppb	99
87) Bromoform	10.760	173	211973	44.03	ppb	97
88) 2-CBTF	10.839	180	1255045	92.01	ppb	95
89) Isopropylbenzene	10.925	105	2045676	46.86	ppb	98
90) Cyclohexanone	10.992	55	657593	2541.28	ppb	87
91) trans-1,4-Dichloro-2-B...	11.229	53	106838	45.50	ppb	91
92) 1,1,2,2-Tetrachloroethane	11.181	83	394659	49.67	ppb	99
93) Bromobenzene	11.175	156	506006	46.49	ppb	96
94) 1,2,3-Trichloropropane	11.211	110	118224	48.90	ppb	95

Data Path : I:\ACQUDATA\msvoa12\Data\062815\

Data File : MM4317.D

Acq On : 28 Jun 2015 9:54 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 10:12:59 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

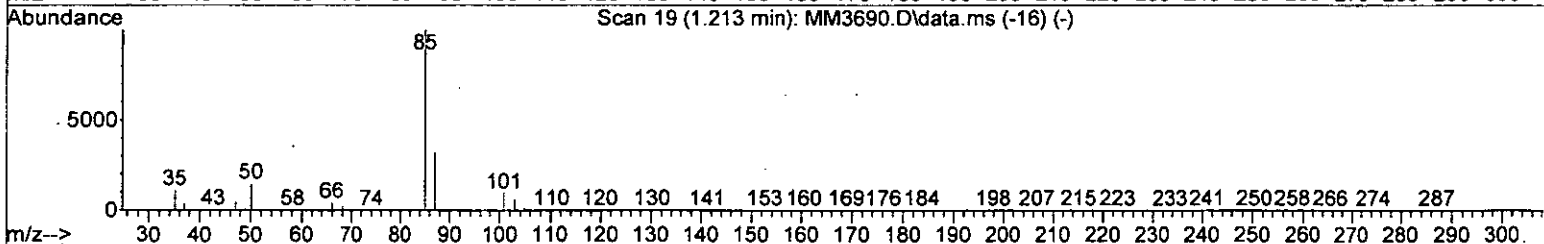
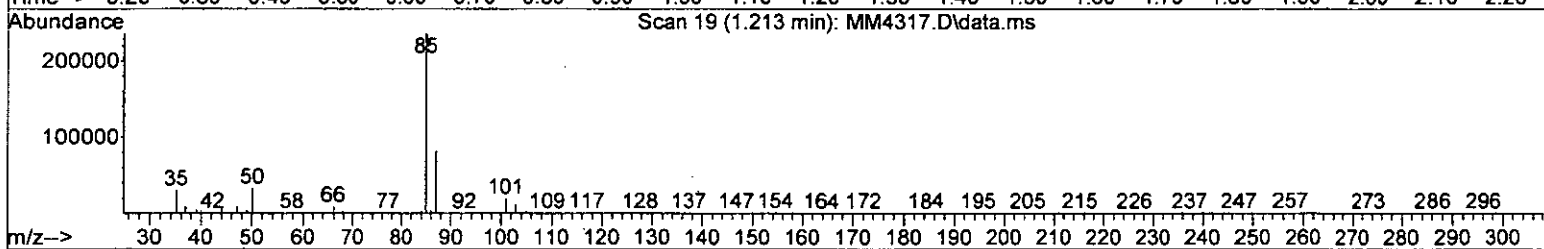
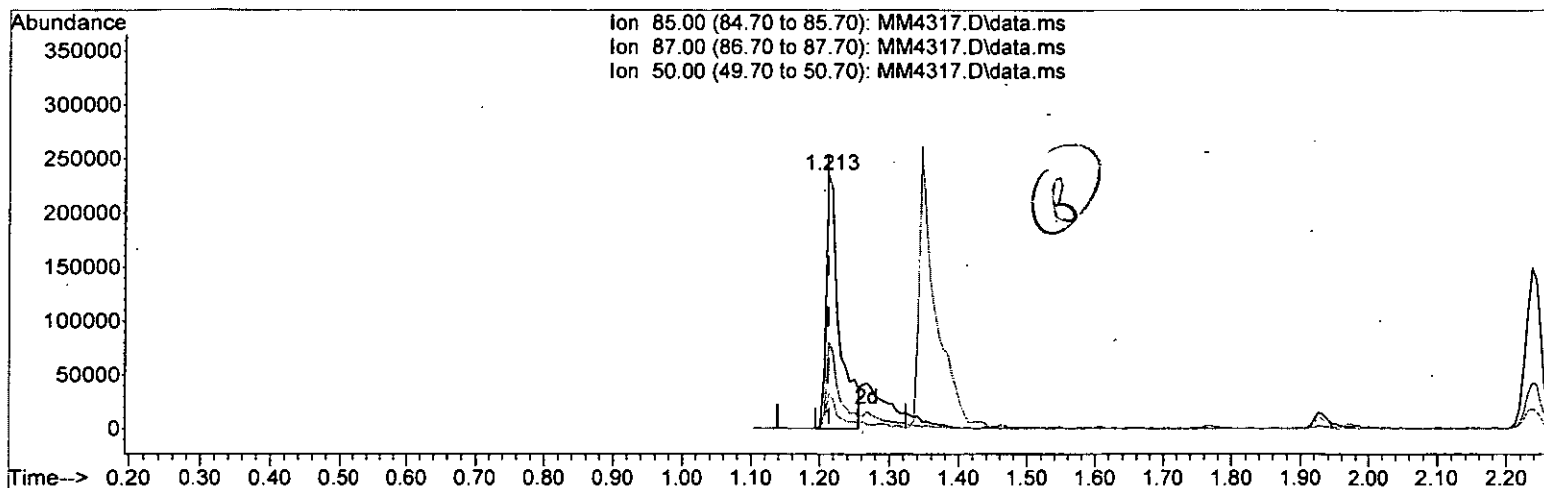
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	2392256	48.69	ppb	99
96) 2-Chlorotoluene	11.345	91	1441079	47.59	ppb	99
97) 3-Chlorotoluene	11.394	91	3126002	97.45	ppb	98
98) 4-Chlorotoluene	11.437	91	1716846	45.86	ppb	98
99) 1,3,5-Trimethylbenzene	11.431	105	1791906	47.91	ppb	98
100) tert-Butylbenzene	11.699	119	1420295	47.13	ppb	99
101) 1,2,4-Trimethylbenzene	11.742	105	1817334	48.13	ppb	98
102) 3,4-DCBTF	11.803	214	892323	99.92	ppb	97
103) sec-Butylbenzene	11.882	105	2027716	49.08	ppb	99
104) p-Isopropyltoluene	12.004	119	1748864	49.77	ppb	99
105) 1,3-Dclbenz	11.967	146	1041152	49.21	ppb	97
106) 1,4-Dclbenz	12.040	146	1072770	48.67	ppb	98
107) 2,4-DCBTF	12.089	214	809360	102.70	ppb	95
108) 2,5-DCBTF	12.132	214	916385	103.42	ppb	98
109) n-Butylbenzene	12.333	91	1535609	48.69	ppb	100
110) 1,2-Dclbenz	12.339	146	977957	49.45	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.961	157	79318	49.32	ppb	98
112) Trielution Dichlorotol...	13.077	125	5011899	300.91	ppb	98
113) 1,3,5 Trichlorobenzene	13.132	180	1289586	103.96	ppb	98
114) Coelution Dichlorotoluene	13.406	125	3665279	205.41	ppb	98
115) 1,2,4-Tcbenzene	13.613	180	568654	50.06	ppb	95
116) Hexachlorobt	13.747	225	196388	44.90	ppb	99
117) Naphthalen	13.802	128	1271914	53.35	ppb	100
118) 1,2,3-Tclbenzene	13.991	180	492881	53.07	ppb	100
119) 2,4,5-Trichlorotolene	14.576	159	684449	92.18	ppb	94
120) 2,3,6-Trichlorotoluene	14.662	159	584033	91.46	ppb	95

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

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4317.D
Acq On : 28 Jun 2015 9:54 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4317.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 38.63 ppb

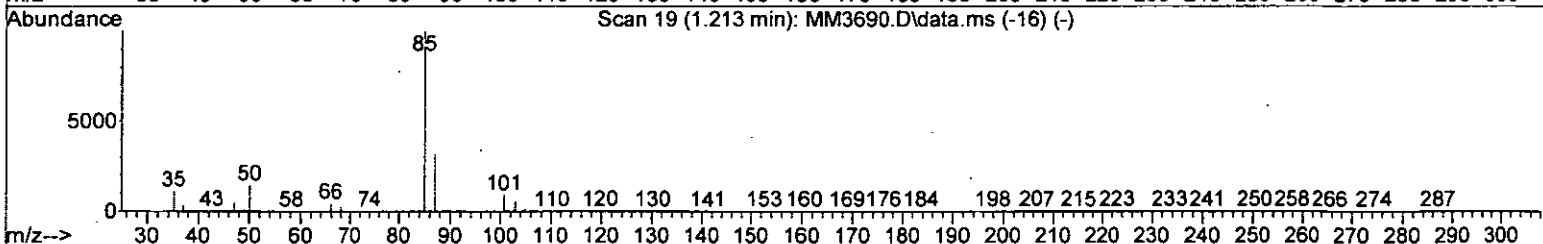
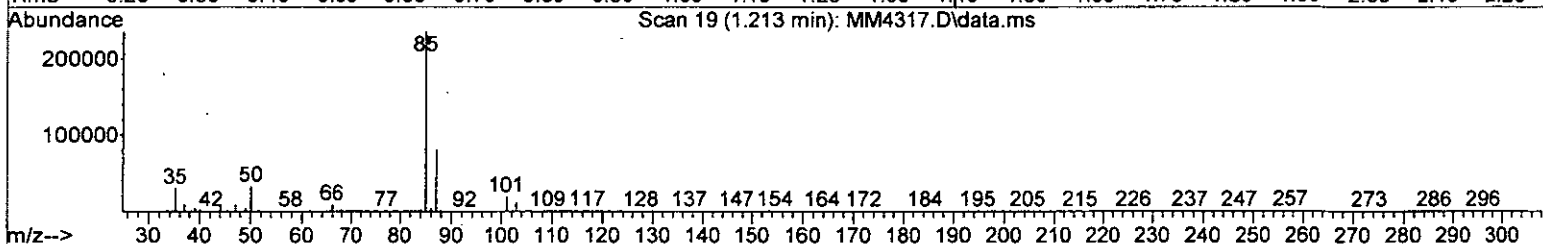
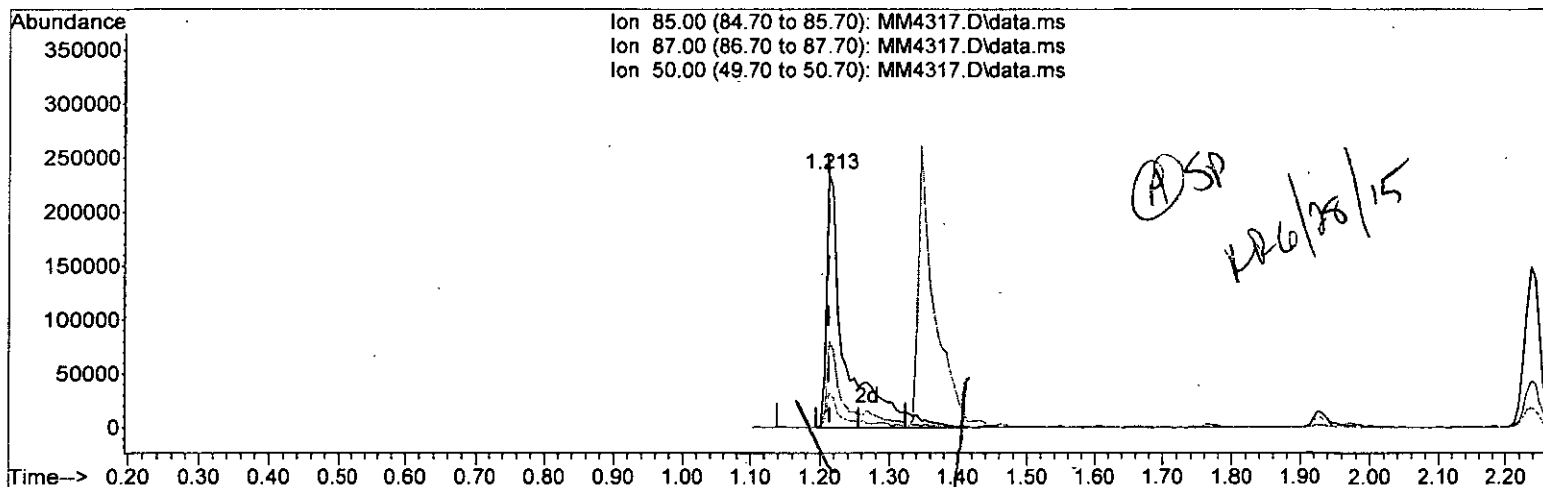
response 317038

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.38
50.00	14.50	13.78
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4317.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 55.05 ppb m

response 451785

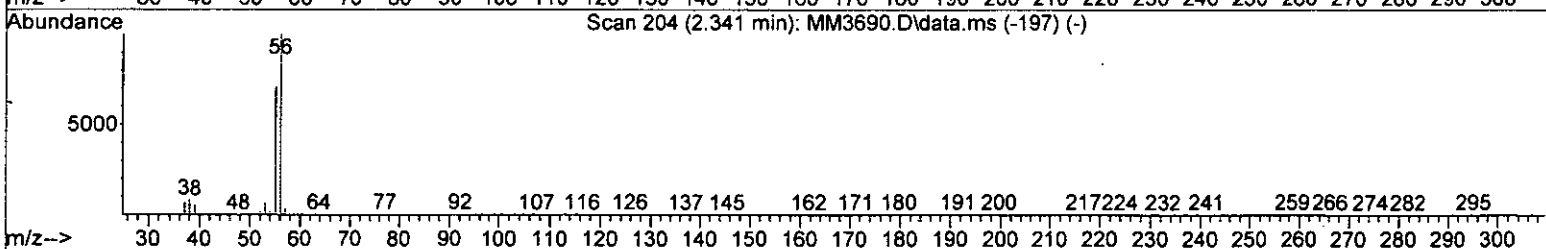
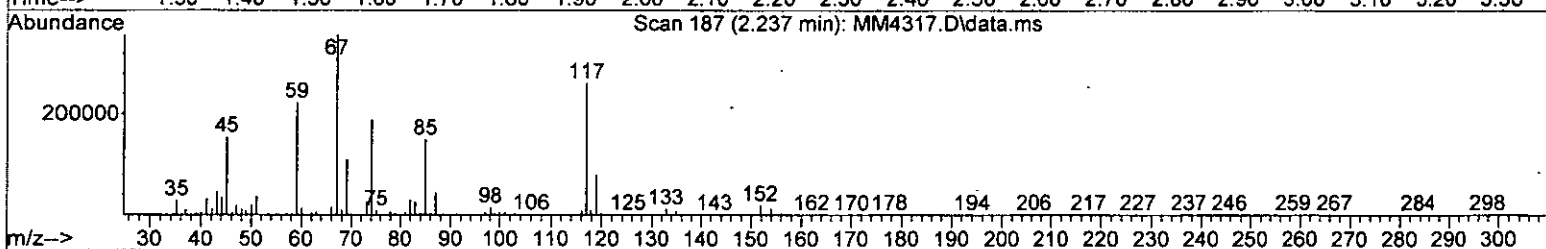
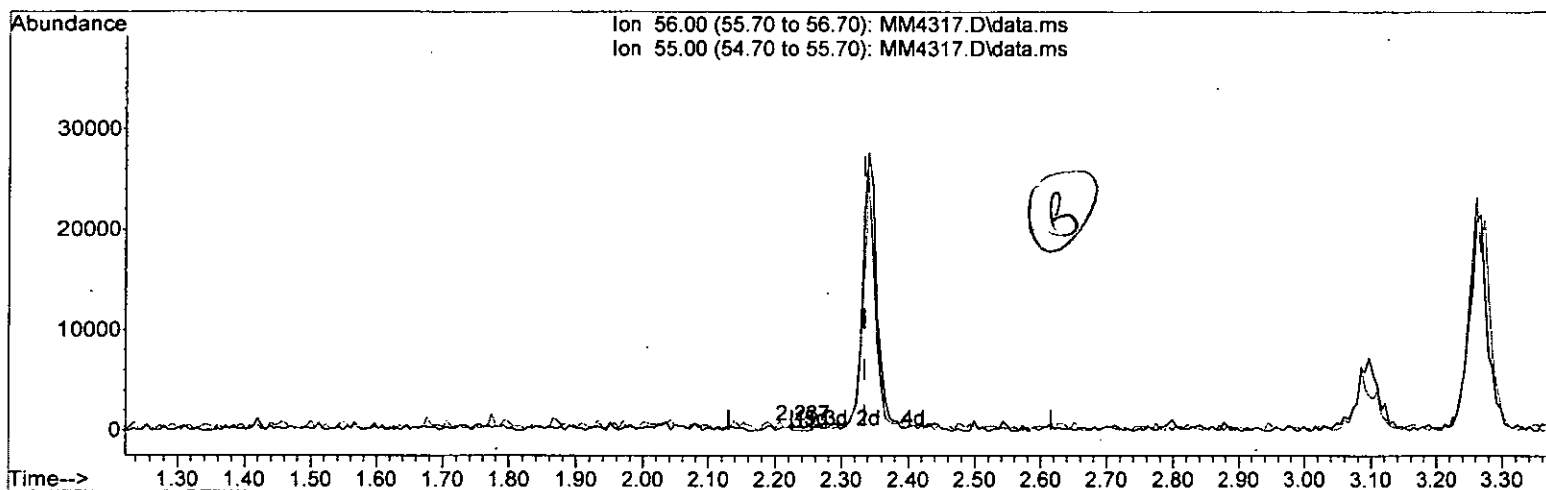
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.38
50.00	14.50	13.78
0.00	0.00	0.00

mv
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Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4317.D
Acq On : 28 Jun 2015 9:54 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4317.D\data.ms

(12) Acrolein

2.237min (-0.098) 0.89 ppb

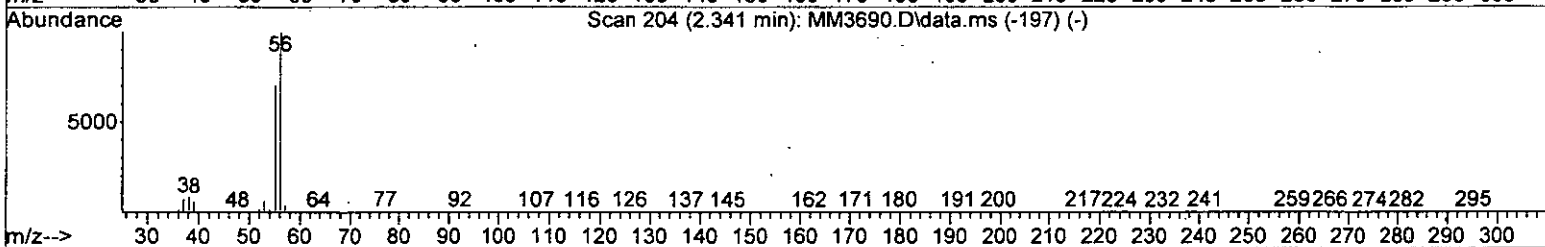
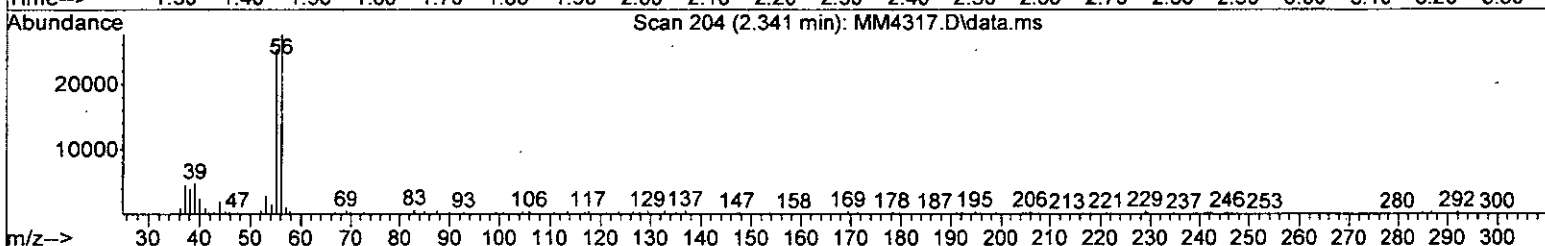
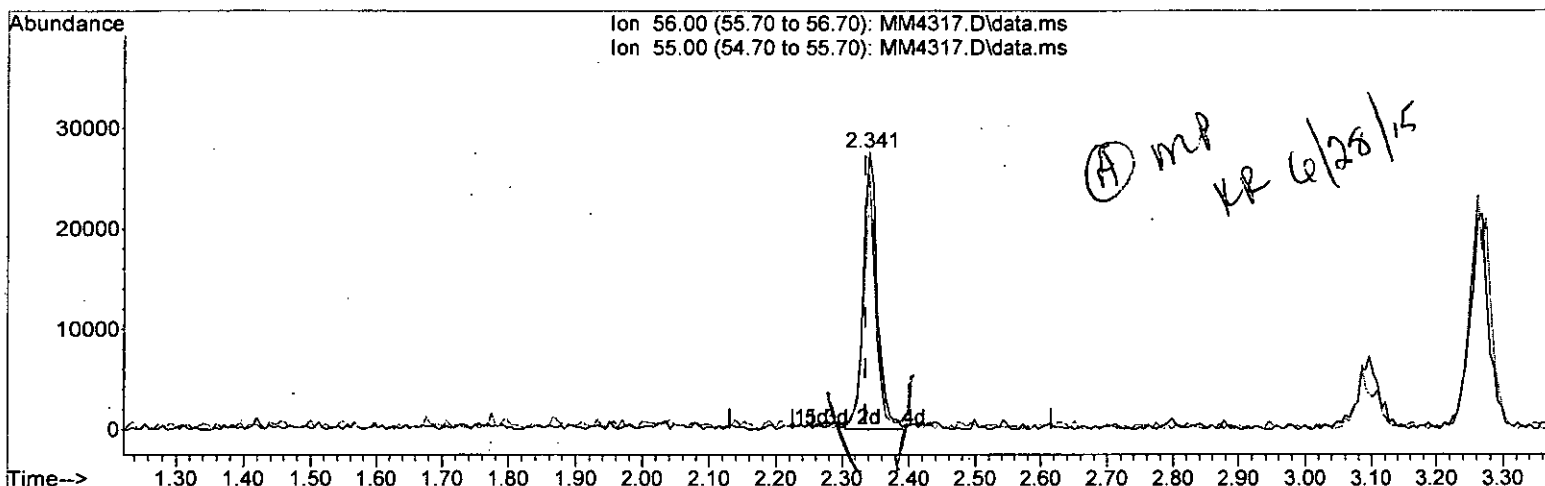
response 616

Ion	Exp%	Act%
56.00	100	100
55.00	71.60	68.53
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4317.D\data.ms

(12) Acrolein

2.341min (+0.006) 58.49 ppb m

response 40500

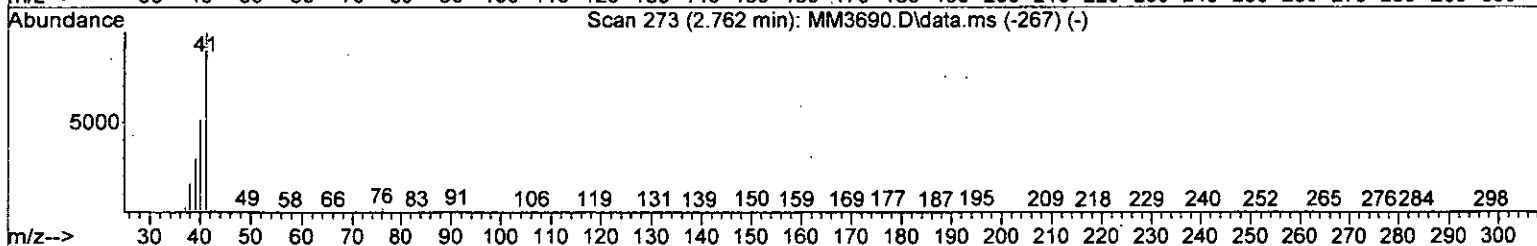
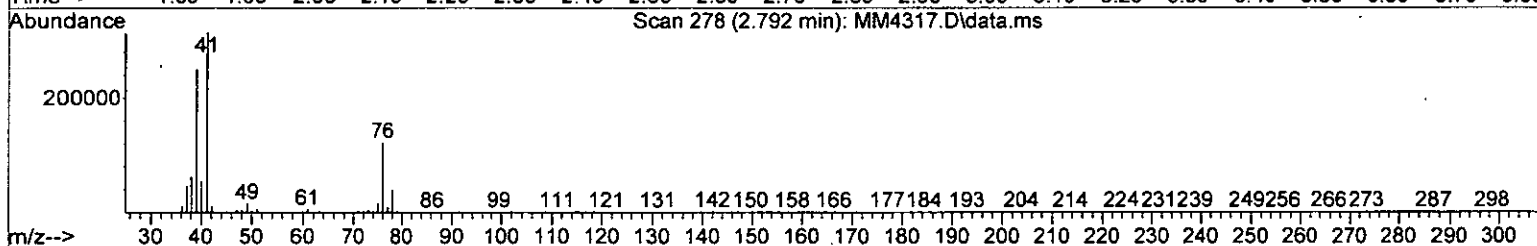
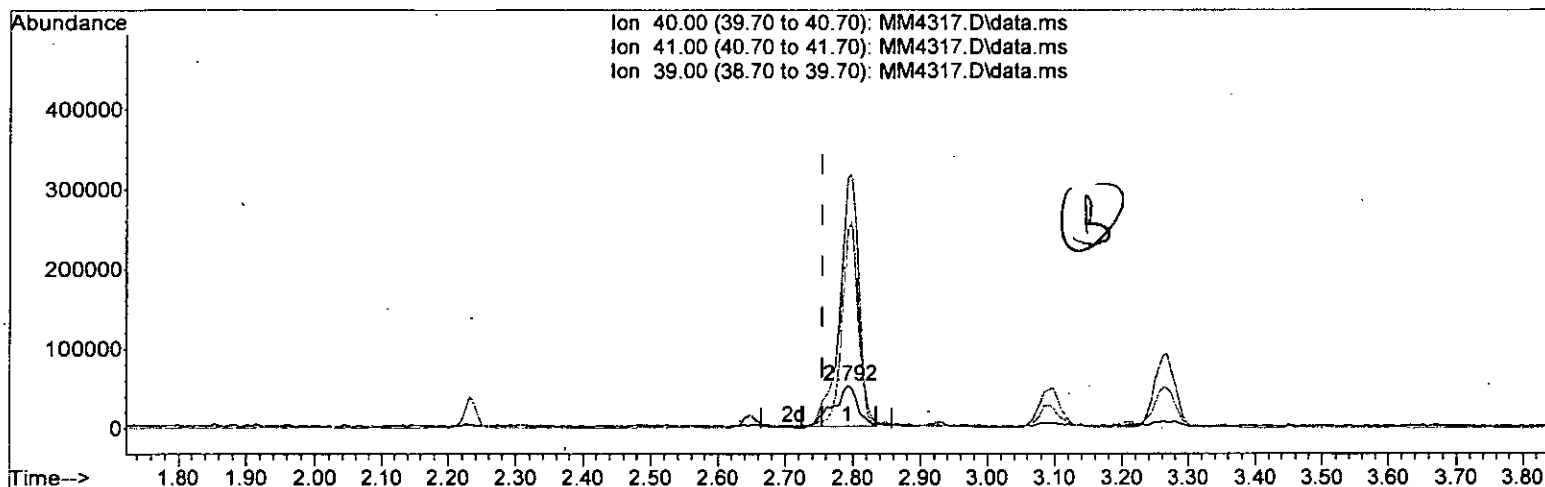
Ion	Exp%	Act%
56.00	100	100
55.00	71.60	91.65#
0.00	0.00	0.00
0.00	0.00	0.00

mm
6/11

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4317.D\data.ms

(19) Acetonitrile

2.792min (+0.037) 744.51 ppb

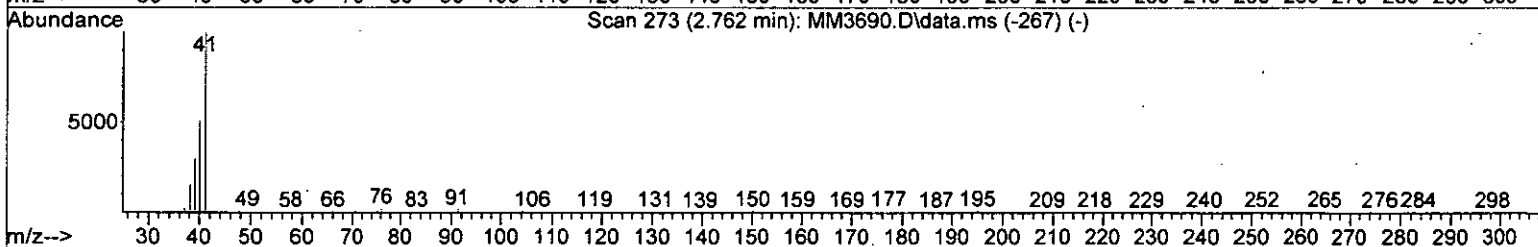
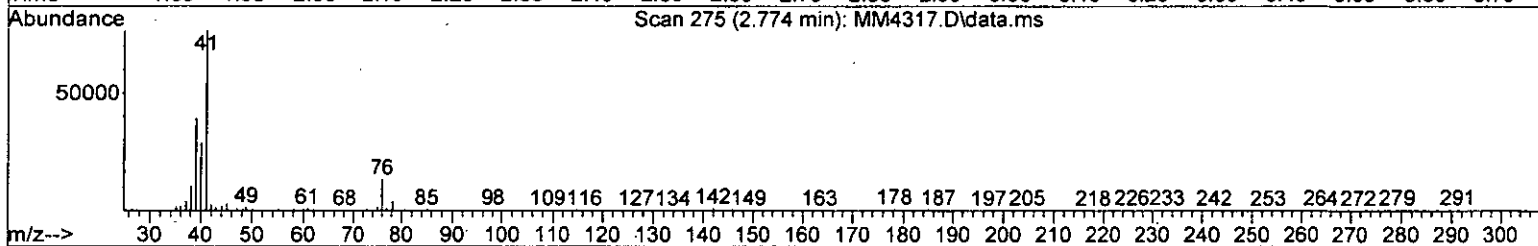
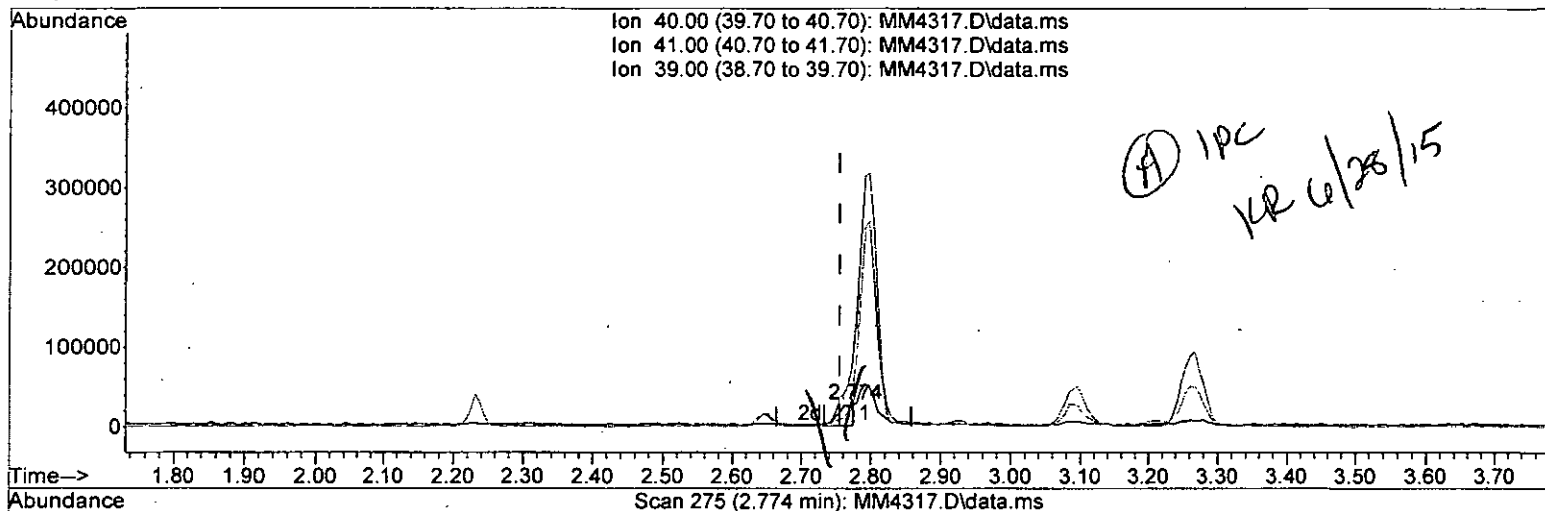
response 128832

Ion	Exp%	Act%
40.00	100	100
41.00	194.30	579.71#
39.00	58.40	460.93#
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4317.D
 Acq On : 28 Jun 2015 9:54 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:09:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4317.D\data.ms

(19) Acetonitrile
 2.774min (+0.019) 235.36 ppb m
 response 40727

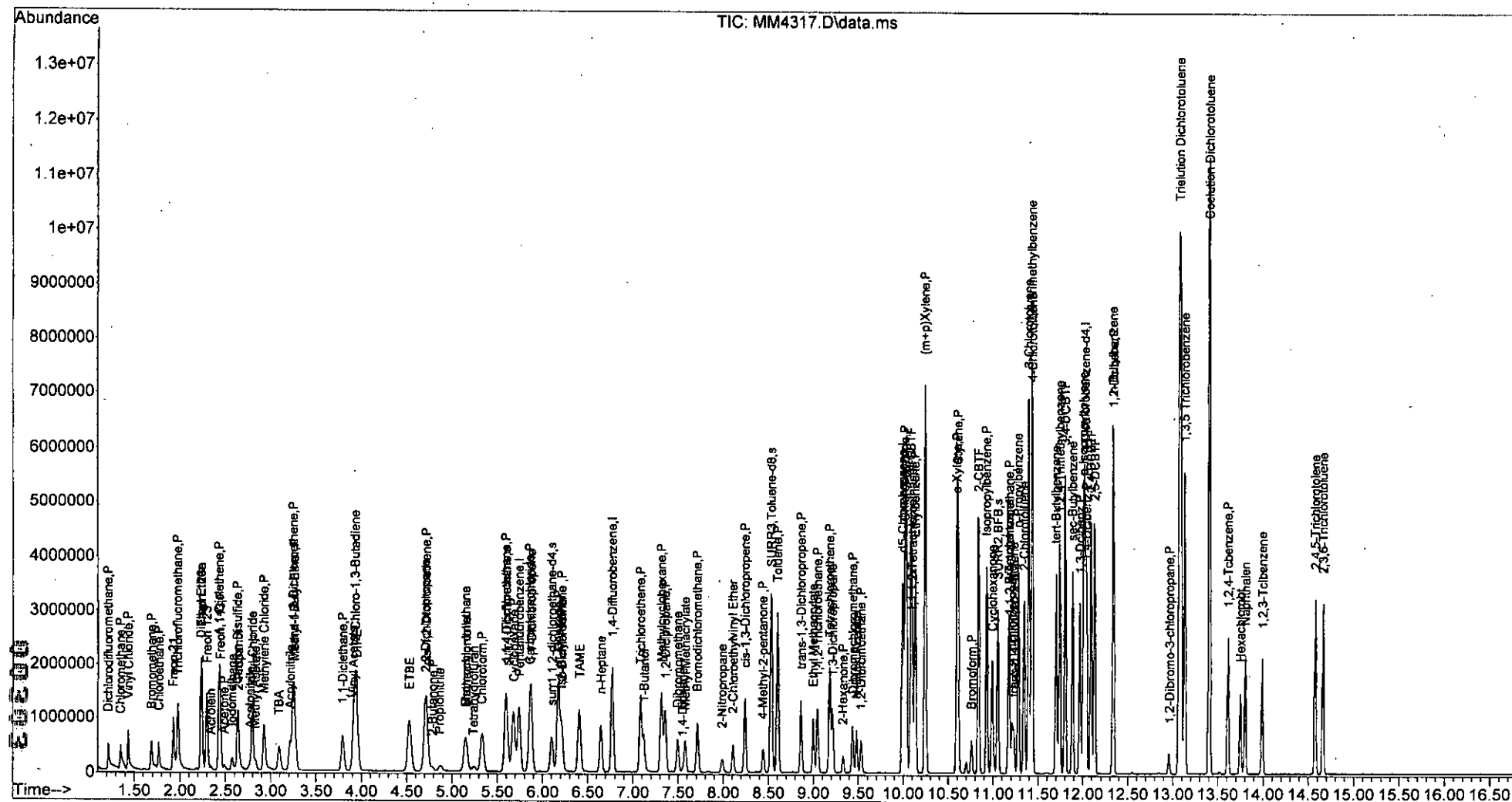
Ion	Exp%	Act%
40.00	100	100
41.00	194.30	266.03#
39.00	58.40	136.50#
0.00	0.00	0.00

MM
 6/4

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4317.D
Acq On : 28 Jun 2015 9:54 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 1 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:12:59 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4344.D

Acq On : 29 Jun 2015 10:32 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:50:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

6/29/15

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	100 0.00
2 P	Dichlorodifluoromethane	0.4266	0.4621	-8.3	106 0.00
3 P	Chloromethane	0.4149	0.4135	0.3	102 0.00
4 P	Vinyl Chloride	0.5240	0.5434	-3.7	105 0.00
5 P	Bromomethane	0.2975	0.2829	4.9	101 0.01
6 P	Chloroethane	0.3477	0.3101	10.8	93 0.00
7	Freon 21	0.8681	0.8751	-0.8	102 0.00
8 P	Trichlorofluoromethane	0.7809	0.7568	3.1	97 0.00
9	Diethyl Ether	0.3453	0.3150	8.8	92 0.00
10	Freon 123a	0.5540	0.5329	3.8	99 0.00
11	Freon 123	0.6437	0.6391	0.7	103 0.00
12	Acrolein	0.0360	0.0079	45.1	78.1# 20# 0.00
13 P	1,1-Dicethene	0.3677	0.3838	-4.4	110 0.00
14 P	Freon 113	0.3640	0.3843	-5.6	111 0.00
15 P	Acetone	0.0701	0.0701	0.0	108 0.00
16	2-Propanol	0.0139	0.0121	12.9	84 0.00
17	Iodomethane	0.3852	0.2684	39.4	30.3# 60 0.01
18 P	Carbon Disulfide	1.1784	1.1645	1.2	104 0.00
19	Acetonitrile	0.0090	0.0083	7.8	100 0.00
20	Allyl Chloride	0.2213	0.2320	-4.8	106 0.00
21 P	Methyl Acetate	0.1526	0.1526	0.0	99 0.00
22 P	Methylene Chloride	0.3908	0.3729	4.6	98 0.00
23	TBA	0.0248	0.0227	8.5	85 0.00
24	Acrylonitrile	0.0797	0.0827	-3.8	104 0.00
25 P	Methyl-t-Butyl Ether	0.9554	0.9731	-1.9	99 0.00
26 P	trans-1,2-Dichloroethene	0.4109	0.4409	-7.3	112 0.00
27	Halothane	0.0000	0.0000	0.0	129 -0.01
28 P	1,1-Dicethane	0.6788	0.6786	0.0	104 0.00
29	Vinyl Acetate	0.0814	0.0713	12.4	89 0.00
30	DIPE	1.1802	1.1657	1.2	102 0.00
31	2-Chloro-1,3-Butadiene	0.7387	0.7360	0.4	103 0.00
32	ETBE	1.1762	1.1044	6.1	96 0.00
33	2,2-Dichloropropane	0.6467	0.6677	-3.2	103 0.00
34 P	cis-1,2-Dichloroethene	0.4380	0.4703	-7.4	110 0.00
35 P	2-Butanone	0.0921	0.0993#	-7.8	102 0.00
36	Propionitrile	0.0281	0.0288	-2.5	96 0.00
37	Bromochloromethane	0.2421	0.2552	-5.4	107 0.00
38	Methacrylonitrile	0.1050	0.1050	0.0	104 0.00
39	Tetrahydrofuran	0.0626	0.0601	4.0	103 0.00
40 P	Chloroform	0.7154	0.7332	-2.5	108 0.00
41 P	1,1,1-Trichloroethane	0.6880	0.6708	2.5	102 0.00
42	TAME	1.0258	0.9977	2.7	97 0.00
43 I	1,4-Difluorobenzene	1.0000	1.0000	0.0	101 0.00
44 P	Cyclohexane	0.2271	0.2281	-0.4	105 0.00
45 s	surr4,Dibrfilmethane	0.2706	0.2915	-7.7	100 0.00
46 P	Carbontetrachloride	0.1088	0.1045	4.0	101 0.00

Evaluate Continuing Calibration Report

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4344.D
 Acq On : 29 Jun 2015 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:50:38 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area	% Dev(min)	
47	1,1-Dichloropropene	0.3441	0.3447	-0.2	107	0.00
48 s	surr1,1,2-dichloroethane-d4	0.2890	0.2947	-2.0	95	0.00
49 P	Benzene	0.9909	1.0359	-4.5	109	0.00
50 P	1,2-Dichloroethane	0.3177	0.3030	4.6	101	0.00
51	Iso-Butyl Alcohol	0.0066	0.0058	12.1	91	0.00
52	n-Heptane	0.2111	0.2108	0.1	104	0.00
53	1-Butanol	0.0042	0.0039	7.1	90	0.00
54 P	Trichloroethene	0.2675	0.2818	-5.3	108	0.00
55 P	Methylcyclohexane	0.2502	0.2752	-10.0	111	0.00
56 P	1,2-Dichloropropane	0.2370	0.2387	-0.7	104	0.00
57	Dibromomethane	0.1277	0.1250	2.1	104	0.00
58	1,4-Dioxane	0.0019	0.0017	10.5	97	0.00
59	Methyl Methacrylate	0.1156	0.1156	0.0	99	0.00
60 P	Bromodichloromethane	0.3420	0.3258	4.7	100	0.00
61	2-Nitropropane	0.0442	0.0310	29.9#	68	0.00
62	2-Chloroethylvinyl Ether	0.1094	0.1077	1.6	95	0.00
63 P	cis-1,3-Dichloropropene	0.3982	0.3949	0.8	101	0.00
64 P	4-Methyl-2-pentanone	0.1351	0.1256	7.0	89	0.00
65 s	SURR3,Toluene-d8	1.1817	1.2837	-8.6	102	0.00
66 P	Toluene	1.1367	1.1950	-5.1	108	0.00
67 P	trans-1,3-Dichloropropene	0.3408	0.3365	1.3	99	0.00
68	Ethyl Methacrylate	0.2473	0.2351	4.9	94	0.00
69 P	1,1,2-Trichloroethane	0.1833	0.1902	-3.8	108	0.00
70 s	SURR2,BFB	0.4490	0.5079	-13.1	103	0.00
71 I	d5-Chlorobenzene	1.0000	1.0000	0.0	107	0.00
72 P	Tetrachloroethene	0.2293	0.2184	4.8	110	0.00
73 P	2-Hexanone	0.1012	0.0903	10.8	90	0.00
74	1,3-Dichloropropane	0.3283	0.3328	-1.4	104	0.00
75 P	Dibromochloromethane	0.2472	0.2252	8.9	96	0.00
76	N-Butyl Acetate	0.2659	0.2304	13.4	90	0.00
77 P	1,2-Dibromoethane	0.1939	0.1864	3.9	103	0.00
78 P	Chlorobenzene	0.8139	0.8015	1.5	107	0.00
79	3-CBTF	0.3837	0.3827	0.3	111	0.00
80	4-CBTF	0.3476	0.3466	0.3	112	0.00
81	1,1,1,2-Tetrachloroethane	0.2738	0.2604	4.9	104	0.00
82 P	Ethylbenzene	0.4406	0.4297	2.5	106	0.00
83 P	(m+p)Xylene	0.5370	0.5380	-0.2	107	0.00
84 P	o-Xylene	0.5200	0.5180	0.4	106	0.00
85 P	Styrene	0.8926	0.8959	-0.4	107	0.00
86 I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	113	0.00
87 P	Bromoform	0.2560	0.2196	14.2	96	0.00
88	2-CBTF	0.7253	0.6435	11.3	112	0.00
89 P	Isopropylbenzene	2.3212	2.2235	4.2	111	0.00
90	Cyclohexanone	0.0138	0.0285	-106.5#	221#	0.00
91	trans-1,4-Dichloro-2-Butene	0.1249	0.1059	15.2	96	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4344.D

Acq On : 29 Jun 2015 10:32 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:50:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area	% Dev(min)
92 P	1,1,2,2-Tetrachloroethane	0.4225	0.3849	8.9	104 0.00
93	Bromobenzene	0.5788	0.5512	4.8	110 0.00
94	1,2,3-Trichloropropane	0.1286	0.1202	6.5	110 0.00
95	n-Propylbenzene	2.6124	2.5686	1.7	111 0.00
96	2-Chlorotoluene	1.6100	1.5811	1.8	111 0.00
97	3-Chlorotoluene	1.7057	1.5597	8.6	110 0.00
98	4-Chlorotoluene	1.9904	1.9180	3.6	108 0.00
99	1,3,5-Trimethylbenzene	1.9889	1.9047	4.2	109 0.00
100	tert-Butylbenzene	1.6024	1.5139	5.5	110 0.00
101	1,2,4-Trimethylbenzene	2.0077	1.9357	3.6	110 0.00
102	3,4-DCBTF	0.4749	0.4529	4.6	115 0.00
103	sec-Butylbenzene	2.1969	2.1174	3.6	110 0.00
104	p-Isopropyltoluene	1.8686	1.8497	1.0	111 0.00
105 P	1,3-Dclbenz	1.1251	1.0973	2.5	113 0.00
106 P	1,4-Dclbenz	1.1719	1.1297	3.6	112 0.00
107	2,4-DCBTF	0.4190	0.4122	1.6	119 0.00
108	2,5-DCBTF	0.4712	0.4652	1.3	117 0.00
109	n-Butylbenzene	1.6769	1.6360	2.4	112 0.00
110 P	1,2-Dclbenz	1.0516	1.0311	1.9	112 0.00
111 P	1,2-Dibromo-3-chloropropane	0.0855	0.0729	14.7	96 0.00
112	Trielution Dichlorotoluene	0.8856	0.8552	3.4	115 0.00
113	1,3,5 Trichlorobenzene	0.6596	0.6661	-1.0	118 0.00
114	Coelution Dichlorotoluene	0.9488	0.9191	3.1	114 0.00
115 P	1,2,4-Tcbenzene	0.6041	0.5900	2.3	112 0.00
116	Hexachlorobt	0.2326	0.2175	6.5	113 0.00
117	Naphthalen	1.2677	1.2338	2.7	107 0.00
118	1,2,3-Tclbenzene	0.4939	0.4826	2.3	109 0.00
119	2,4,5-Trichlorotoluene	0.3948	0.3479	11.9	107 0.00
120	2,3,6-Trichlorotoluene	0.3395	0.3073	9.5	105 0.00

(#) = Out of Range

SPCC's out = 1 CCC's out = 0

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4344.D

Acq On : 29 Jun 2015 10:32 am

Operator : K.Ruest

Sample : CCV *201507136-02*

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:50:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	944811	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1580808	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1569057	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	916293	50.00	ppb	0.00

System Monitoring Compounds

45) surr4, Dibrflmethane	5.596	113	460731	53.86	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	107.72%
48) surr1, 1,2-dichloroetha...	6.102	65	465843	50.98	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	101.96%
65) SURR3, Toluene-d8	8.535	98	2029247	54.31	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	108.62%
70) SURR2, BFB	11.047	95	802889	56.56	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	113.12%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.213	85	436584m	54.15	ppb	
3) Chloromethane	1.347	50	390726	49.84	ppb	99
4) Vinyl Chloride	1.433	62	513378m	51.85	ppb	
5) Bromomethane	1.689	94	267249	47.54	ppb	93
6) Chloroethane	1.768	64	292972m	44.59	ppb	
7) Freon 21	1.926	67	826823	50.41	ppb	100
8) Trichlorofluoromethane	1.975	101	715058	48.46	ppb	94
9) Diethyl Ether	2.231	59	297582	45.61	ppb	95
10) Freon 123a	2.237	67	503503	48.09	ppb	97
11) Freon 123	2.298	83	603845	49.64	ppb	99
12) Acrolein	2.341	56	37363	54.93	ppb	83
13) 1,1-Dicethene	2.432	96	362649	52.20	ppb	98
14) Freon 113	2.438	101	363063	52.78	ppb	97
15) Acetone	2.487	43	66257	50.03	ppb	95
16) 2-Propanol	2.646	45	228480	868.65	ppb	97
17) Iodomethane	2.579	142	253547	30.29	ppb	99
18) Carbon Disulfide	2.634	76	1100261	49.41	ppb	99
19) Acetonitrile	2.755	40	39323	231.32	ppb	# 73
20) Allyl Chloride	2.798	76	219198	52.42	ppb	95
21) Methyl Acetate	2.829	43	144197	50.00	ppb	94
22) Methylene Chloride	2.926	84	352330	47.71	ppb	97
23) TBA	3.091	59	429314	915.09	ppb	94
24) Acrylonitrile	3.213	53	390806	259.62	ppb	93
25) Methyl-t-Butyl Ether	3.261	73	919360	50.93	ppb	96
26) trans-1,2-Dichloroethene	3.249	96	416572	53.65	ppb	92
28) 1,1-Dicethane	3.792	63	641192	49.99	ppb	97
29) Vinyl Acetate	3.902	86	67333	43.78	ppb	97
30) DIPE	3.944	45	1101380	49.39	ppb	99
31) 2-Chloro-1,3-Butadiene	3.932	53	695360	49.81	ppb	98
32) ETBE	4.530	59	1043460	46.95	ppb	99
33) 2,2-Dichloropropane	4.712	77	630895	51.63	ppb	99
34) cis-1,2-Dichloroethene	4.719	96	444310	53.68	ppb	96
35) 2-Butanone	4.779	43	93784	53.88	ppb	88
36) Propionitrile	4.871	54	136088	256.07	ppb	97

*KR
6/29/15*

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4344.D

Acq On : 29 Jun 2015 10:32 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:50:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.151	130	241079	52.69	ppb	89
38) Methacrylonitrile	5.157	67	99251	50.04	ppb	# 70
39) Tetrahydrofuran	5.243	42	56800	47.98	ppb	83
40) Chloroform	5.334	83	692768	51.25	ppb	98
41) 1,1,1-Trichloroethane	5.602	97	633788	48.75	ppb	96
42) TAME	6.407	73	942660	48.63	ppb	95
44) Cyclohexane	5.676	41	360606	50.22	ppb	98
46) Carbontetrachloride	5.865	121	165252	48.04	ppb	98
47) 1,1-Dichloropropene	5.877	75	544974	50.10	ppb	99
49) Benzene	6.176	78	1637610	52.27	ppb	97
50) 1,2-Dichloroethane	6.212	62	479030	47.70	ppb	99
51) Iso-Butyl Alcohol	6.200	43	183646	882.48	ppb	97
52) n-Heptane	6.645	43	333191	49.93	ppb	98
53) 1-Butanol	7.120	56	305716	2313.33	ppb	96
54) Trichloroethene	7.084	130	445452	52.67	ppb	97
55) Methylcyclohexane	7.316	55	435116	55.01	ppb	94
56) 1,2-Dichloropropane	7.358	63	377351	50.35	ppb	98
57) Dibromomethane	7.492	93	197593	48.95	ppb	96
58) 1,4-Dioxane	7.553	88	52486	871.71	ppb	98
59) Methyl Methacrylate	7.578	69	182722	49.99	ppb	88
60) Bromodichloromethane	7.712	83	514996	47.63	ppb	96
61) 2-Nitropropane	7.986	41	97918	70.03	ppb	# 81
62) 2-Chloroethylvinyl Ether	8.108	63	170315	49.25	ppb	100
63) cis-1,3-Dichloropropene	8.242	75	624199	49.58	ppb	99
64) 4-Methyl-2-pentanone	8.437	43	198560	46.48	ppb	91
66) Toluene	8.602	91	1889134	52.57	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	531866	49.37	ppb	97
68) Ethyl Methacrylate	8.998	69	371651	47.53	ppb	96
69) 1,1,2-Trichloroethane	9.047	97	300724	51.88	ppb	98
72) Tetrachloroethene	9.181	164	342661	47.61	ppb	98
73) 2-Hexanone	9.327	43	141663	44.60	ppb	97
74) 1,3-Dichloropropane	9.212	76	522164	50.68	ppb	99
75) Dibromochloromethane	9.437	129	353404	45.56	ppb	96
76) N-Butyl Acetate	9.480	43	361455	43.32	ppb	99
77) 1,2-Dibromoethane	9.529	107	292473	48.07	ppb	95
78) Chlorobenzene	10.016	112	1257602	49.24	ppb	99
79) 3-CBTF	10.035	180	600461	49.86	ppb	98
80) 4-CBTF	10.083	180	543903	49.86	ppb	97
81) 1,1,1,2-Tetrachloroethane	10.102	131	408629	47.56	ppb	99
82) Ethylbenzene	10.132	106	674253	48.77	ppb	99
83) (m+p)Xylene	10.242	106	1688271	100.18	ppb	98
84) o-Xylene	10.595	106	812808	49.81	ppb	98
85) Styrene	10.608	104	1405745	50.19	ppb	99
87) Bromoform	10.760	173	201188	42.89	ppb	99
88) 2-CBTF	10.839	180	589626	44.36	ppb	92
89) Isopropylbenzene	10.931	105	2037351	47.90	ppb	99
90) Cyclohexanone	10.986	55	522077	2070.51	ppb	88
91) trans-1,4-Dichloro-2-B...	11.229	53	97056	42.41	ppb	99
92) 1,1,2,2-Tetrachloroethane	11.181	83	352682	45.55	ppb	97
93) Bromobenzene	11.175	156	505046	47.62	ppb	98
94) 1,2,3-Trichloropropane	11.211	110	110152	46.76	ppb	96

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4344.D

Acq On : 29 Jun 2015 10:32 am

Operator : K.Ruest

Sample : CCV

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 29 10:50:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

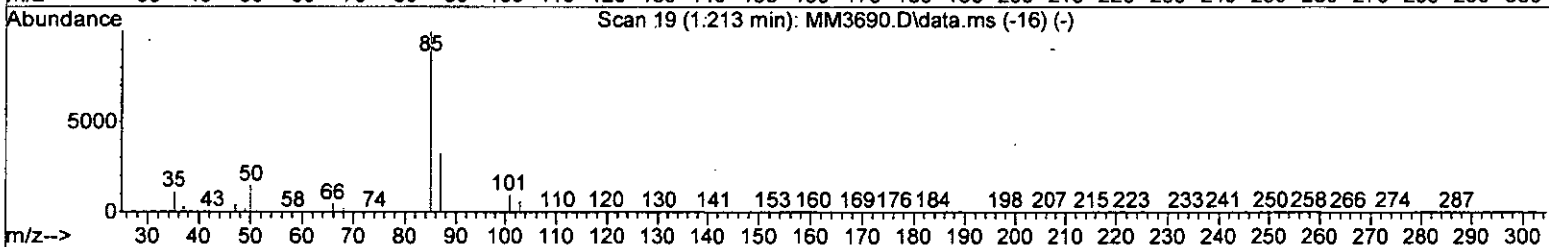
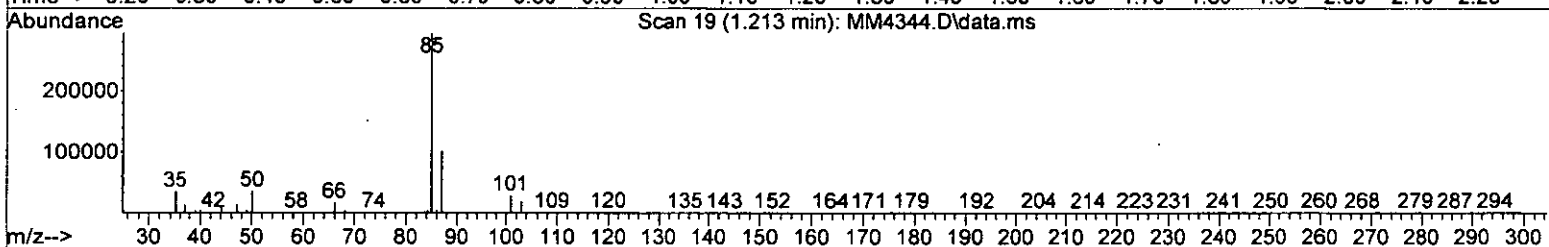
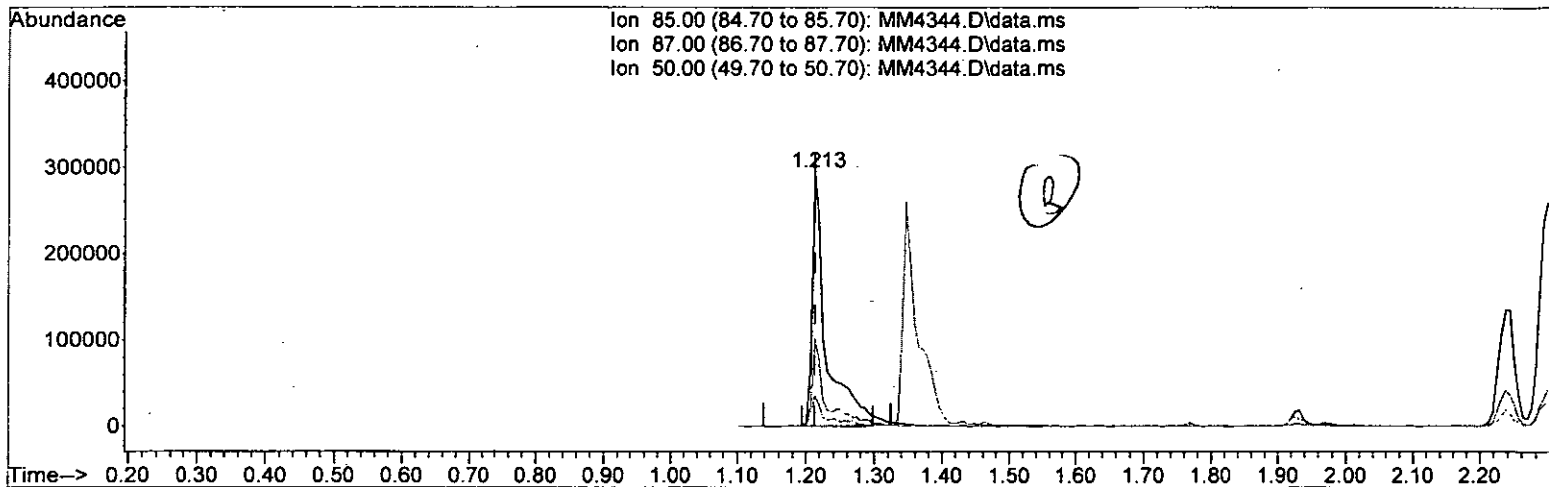
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	2353562	49.16	ppb	98
96) 2-Chlorotoluene	11.345	91	1448718	49.10	ppb	97
97) 3-Chlorotoluene	11.394	91	1429151	45.72	ppb	96
98) 4-Chlorotoluene	11.437	91	1757413	48.18	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	1745240	47.88	ppb	99
100) tert-Butylbenzene	11.705	119	1387199	47.24	ppb	99
101) 1,2,4-Trimethylbenzene	11.742	105	1773700	48.21	ppb	98
102) 3,4-DCBTF	11.803	214	415029	47.69	ppb	97
103) sec-Butylbenzene	11.882	105	1940113	48.19	ppb	99
104) p-Isopropyltoluene	12.004	119	1694847	49.49	ppb	99
105) 1,3-Dclbenz	11.967	146	1005416	48.76	ppb	97
106) 1,4-Dclbenz	12.040	146	1035113	48.20	ppb	98
107) 2,4-DCBTF	12.089	214	377674	49.18	ppb	95
108) 2,5-DCBTF	12.132	214	426245	49.37	ppb	98
109) n-Butylbenzene	12.333	91	1499078	48.78	ppb	99
110) 1,2-Dclbenz	12.339	146	944810	49.02	ppb	100
111) 1,2-Dibromo-3-chloropr...	12.961	157	66803	42.63	ppb	96
112) Trielution Dichlorotol...	13.077	125	2350968	144.85	ppb	98
113) 1,3,5 Trichlorobenzene	13.132	180	610315	50.49	ppb	99
114) Coelution Dichlorotoluene	13.406	125	1684241	96.86	ppb	97
115) 1,2,4-Tcbenzene	13.613	180	540656	48.84	ppb	99
116) Hexachlorobt	13.753	225	199278	46.76	ppb	96
117) Naphthalen	13.802	128	1130543	48.67	ppb	98
118) 1,2,3-Tclbenzene	13.991	180	442171	48.86	ppb	99
119) 2,4,5-Trichlorotoluene	14.576	159	318784	44.06	ppb	96
120) 2,3,6-Trichlorotoluene	14.662	159	281546	45.25	ppb	98

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

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4344.D
 Acq On : 29 Jun 2015 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4344.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 51.81 ppb

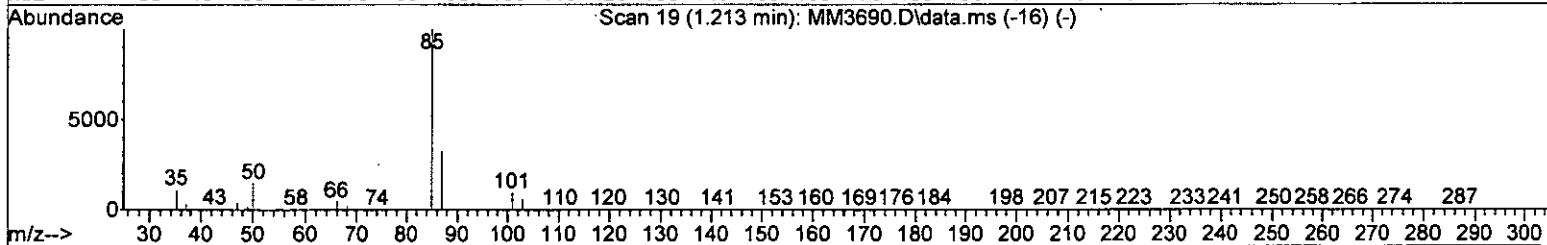
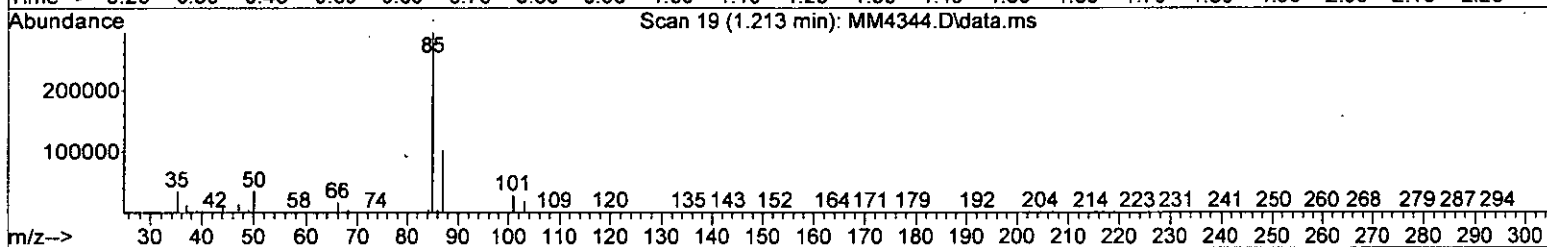
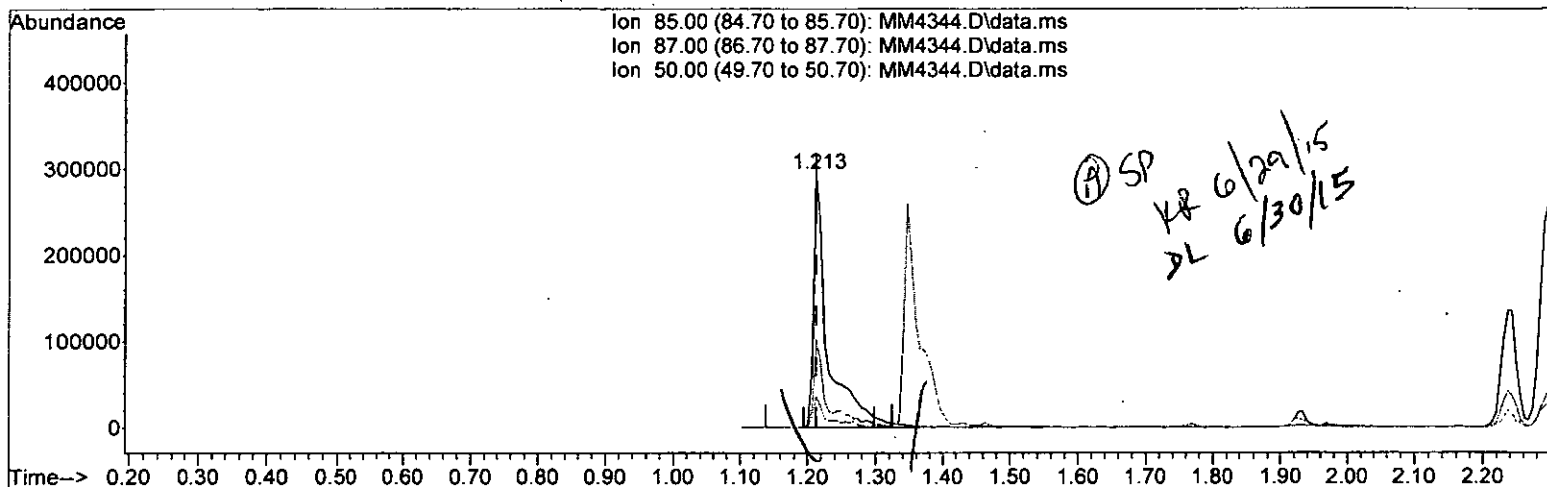
response 417702

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.47
50.00	14.50	11.82
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4344.D
 Acq On : 29 Jun 2015 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4344.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 54.15 ppb m

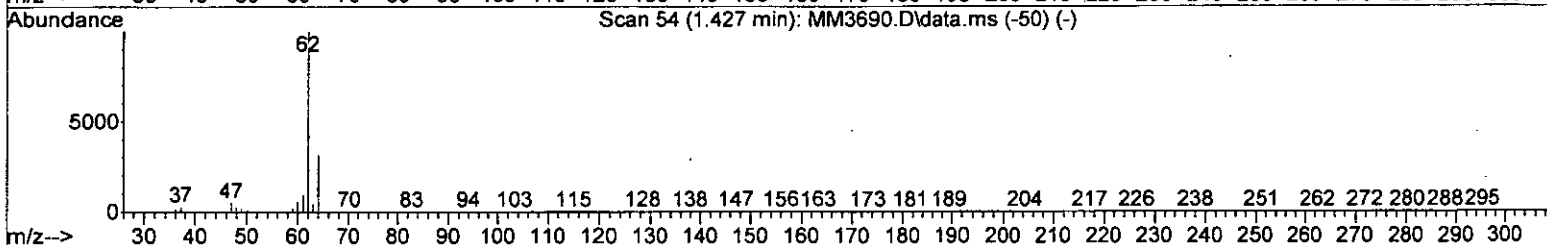
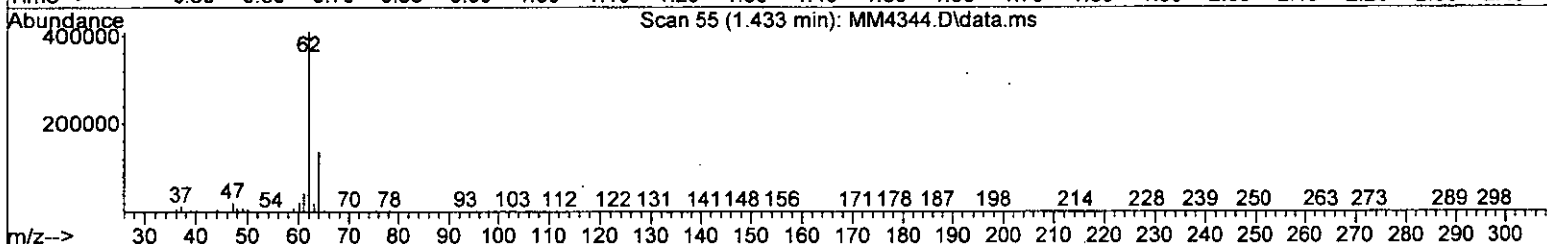
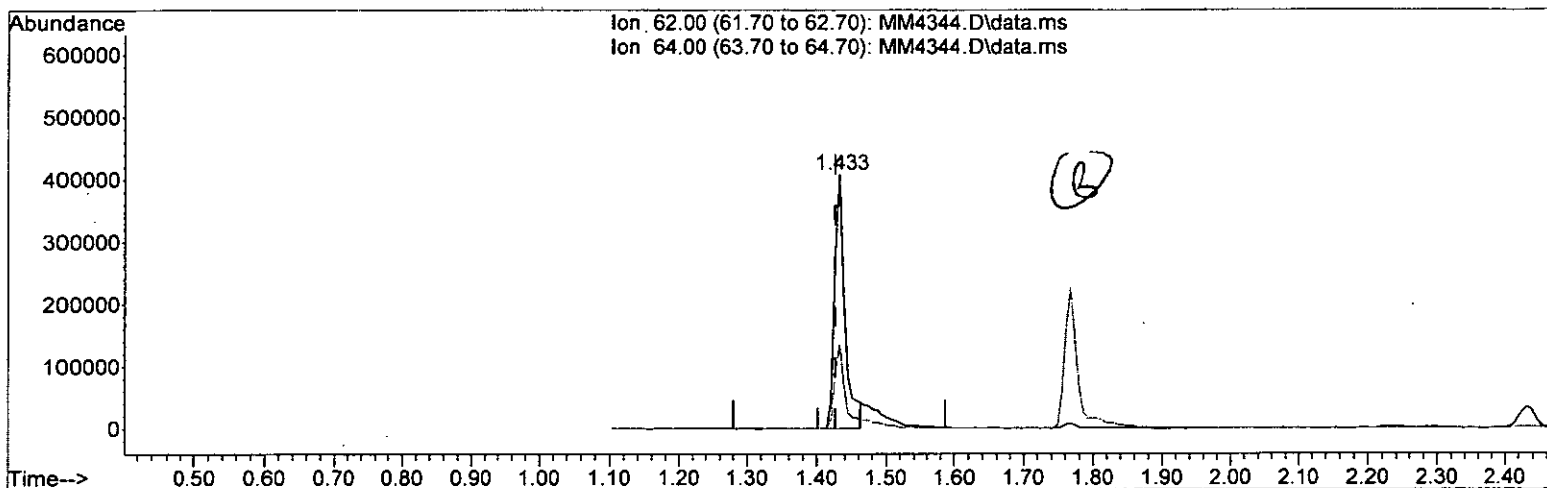
response 436584

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.47
50.00	14.50	11.82
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4344.D
Acq On : 29 Jun 2015 10:32 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4344.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 42.72 ppb

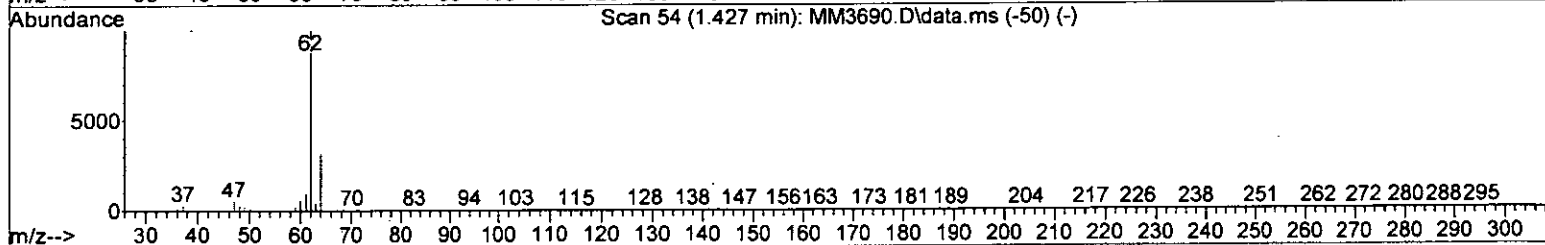
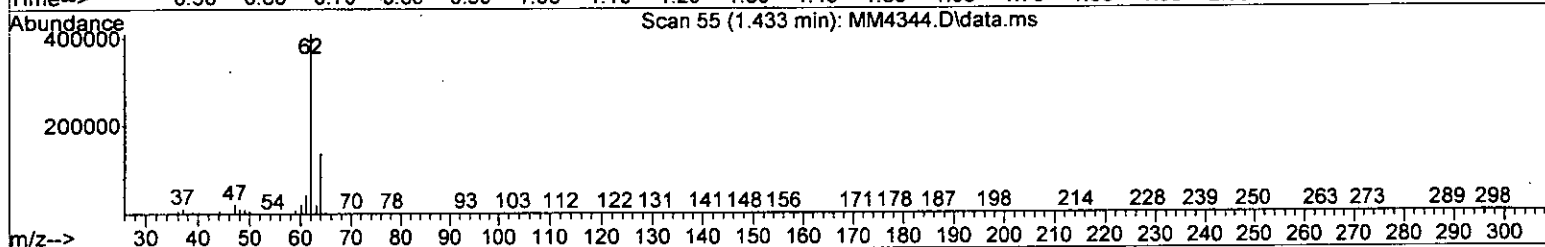
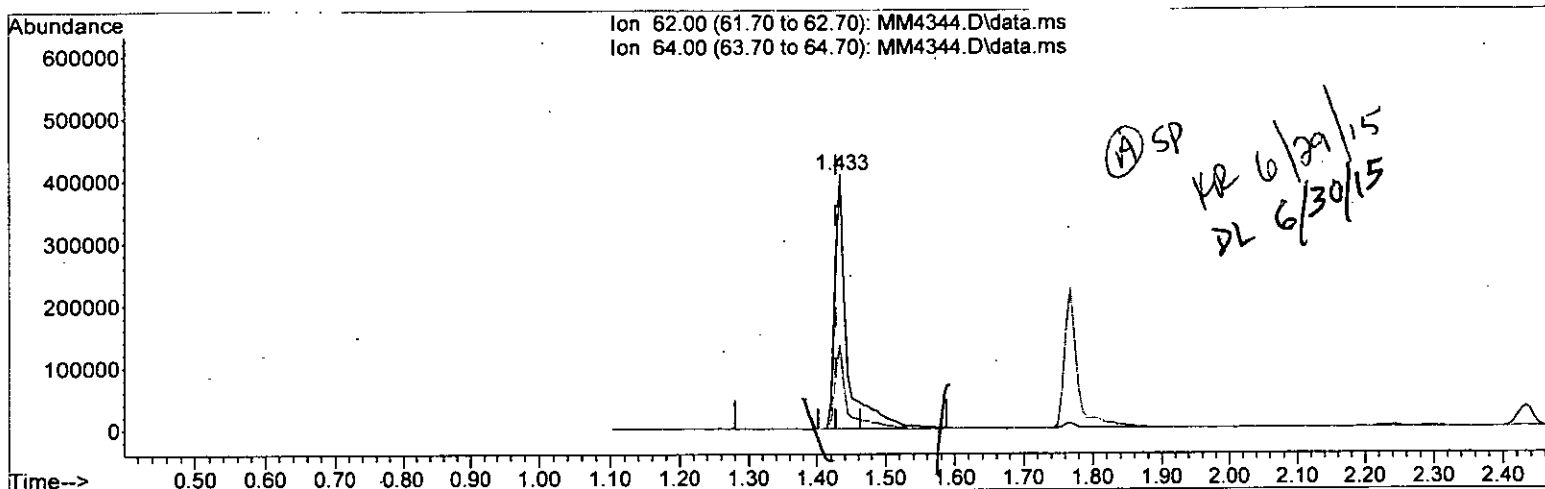
response 422974

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4344.D
 Acq On : 29 Jun 2015 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4344.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 51.85 ppb m

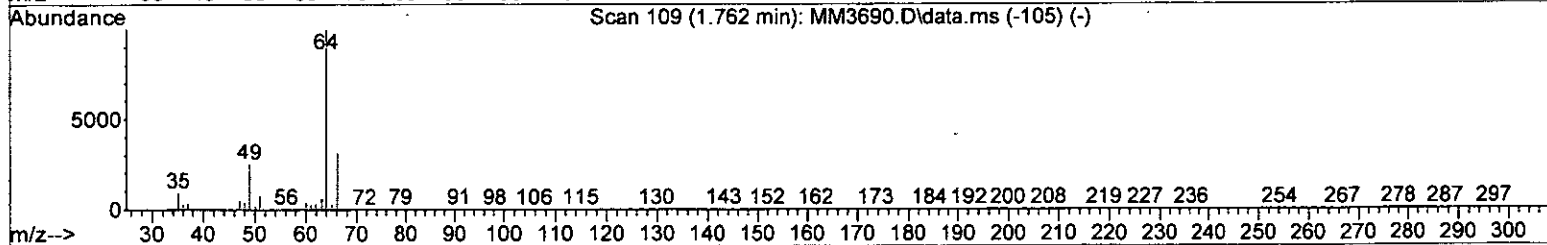
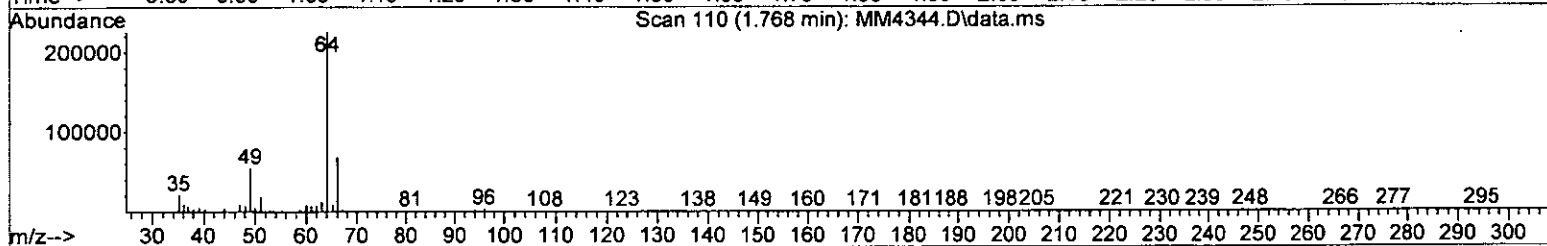
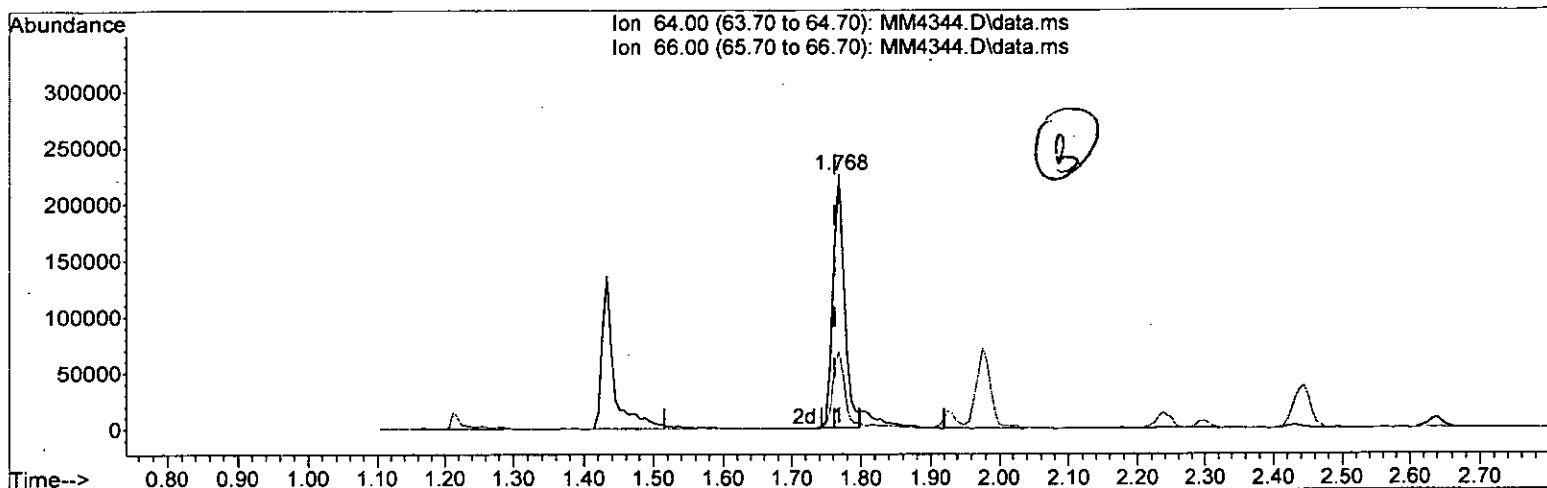
response 513378

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	33.27
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4344.D
 Acq On : 29 Jun 2015 10:32 am
 Operator : K.Ruest
 Sample : CCV
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4344.D\data.ms

(6) Chloroethane (P)

1.768min (+0.006) 39.26 ppb

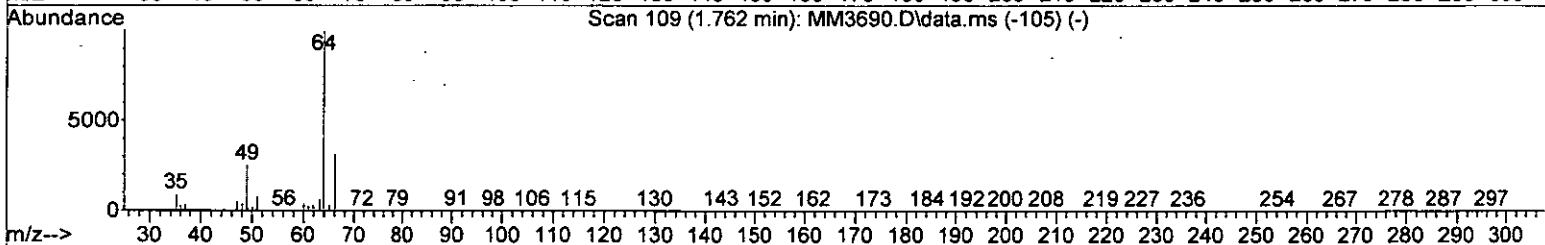
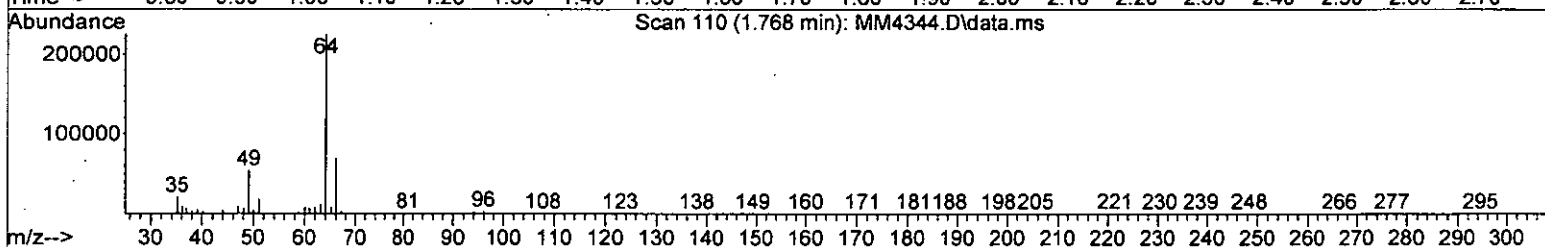
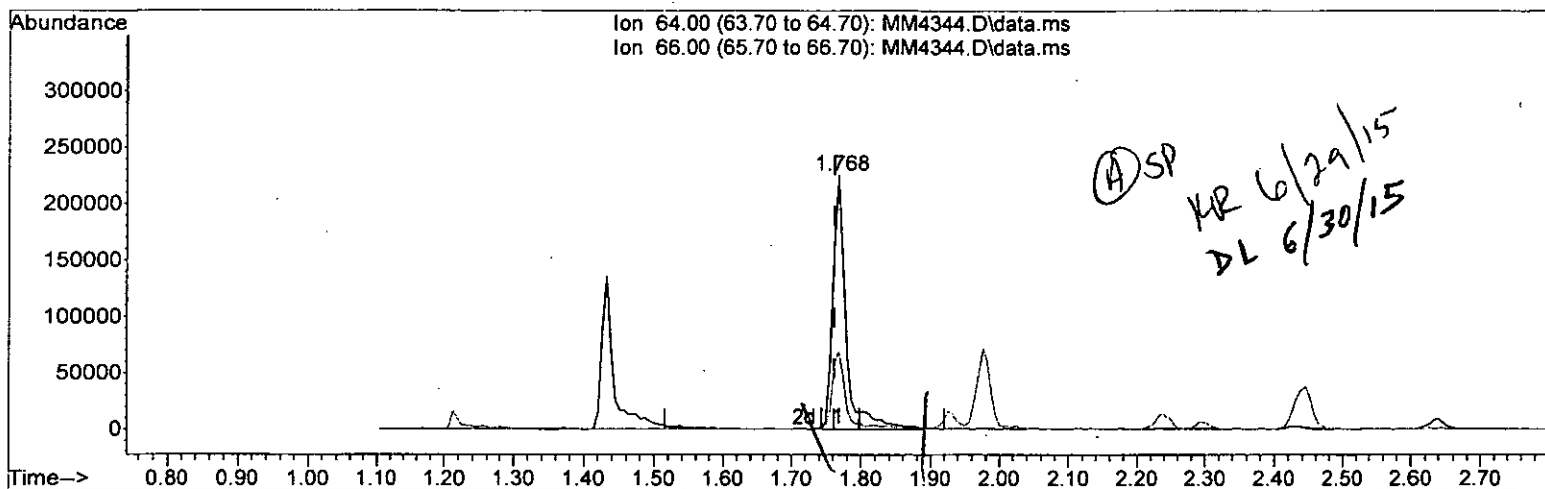
response 257926

Ion	Exp%	Act%
64.00	100	100
66.00	32.00	30.55
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4344.D
Acq On : 29 Jun 2015 10:32 am
Operator : K.Ruest
Sample : CCV
Misc :
ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 10:48:41 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4344.D\data.ms

(6) Chloroethane (P)

1.768min (+0.006) 44.59 ppb m

response 292972

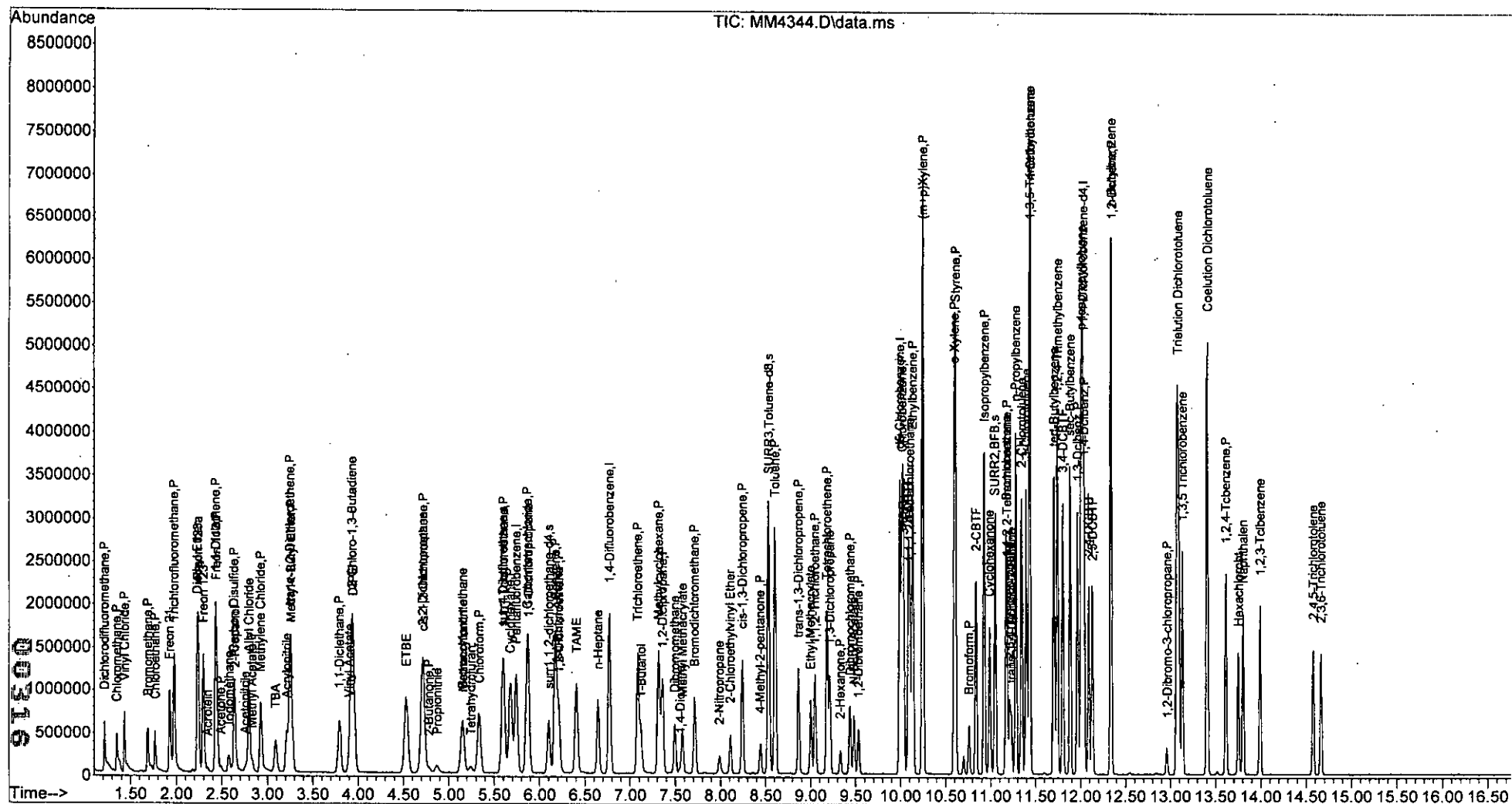
Ion	Exp%	Act%
64.00	100	100
66.00	32.00	30.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

```
Data Path : I:\ACQUDATA\msvoa12\Data\062915\  
Data File : MM4344.D  
Acq On    : 29 Jun 2015 10:32 am  
Operator  : K.Ruest  
Sample    : CCV  
Misc      :  
ALS Vial  : 4      Sample Multiplier: 1
```

Inst : MSVOA-12

Quant Time: Jun 29 10:50:38 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration





VOLATILE ORGANICS RAW QC DATA

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

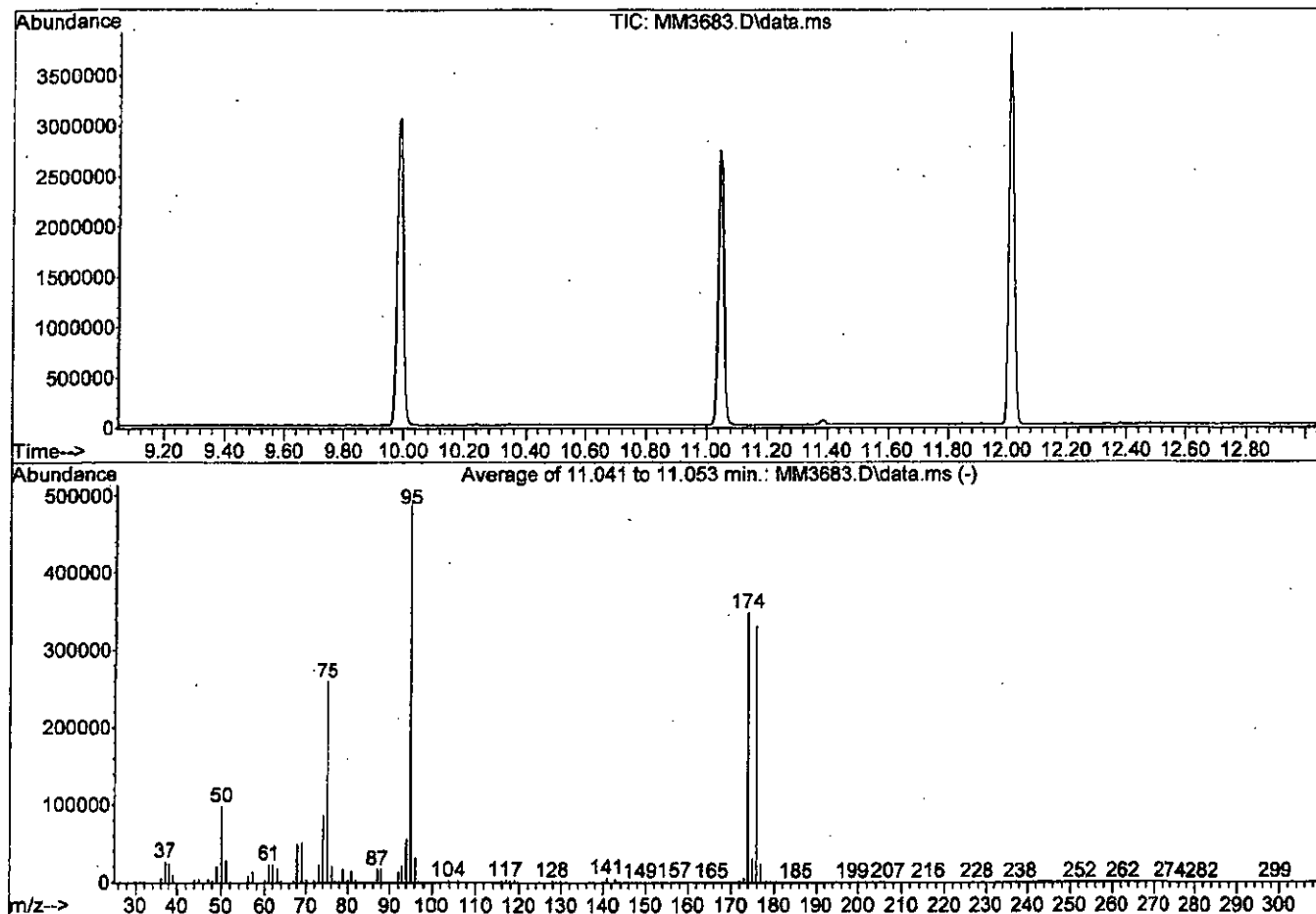
Data Path : I:\ACQUDATA\msvoa12\Data\060415\
 Data File : MM3683.D
 Acq On : 4 Jun 2015 11:38 am
 Operator : K.Ruest
 Sample : TUNE
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

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

12/6/15



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

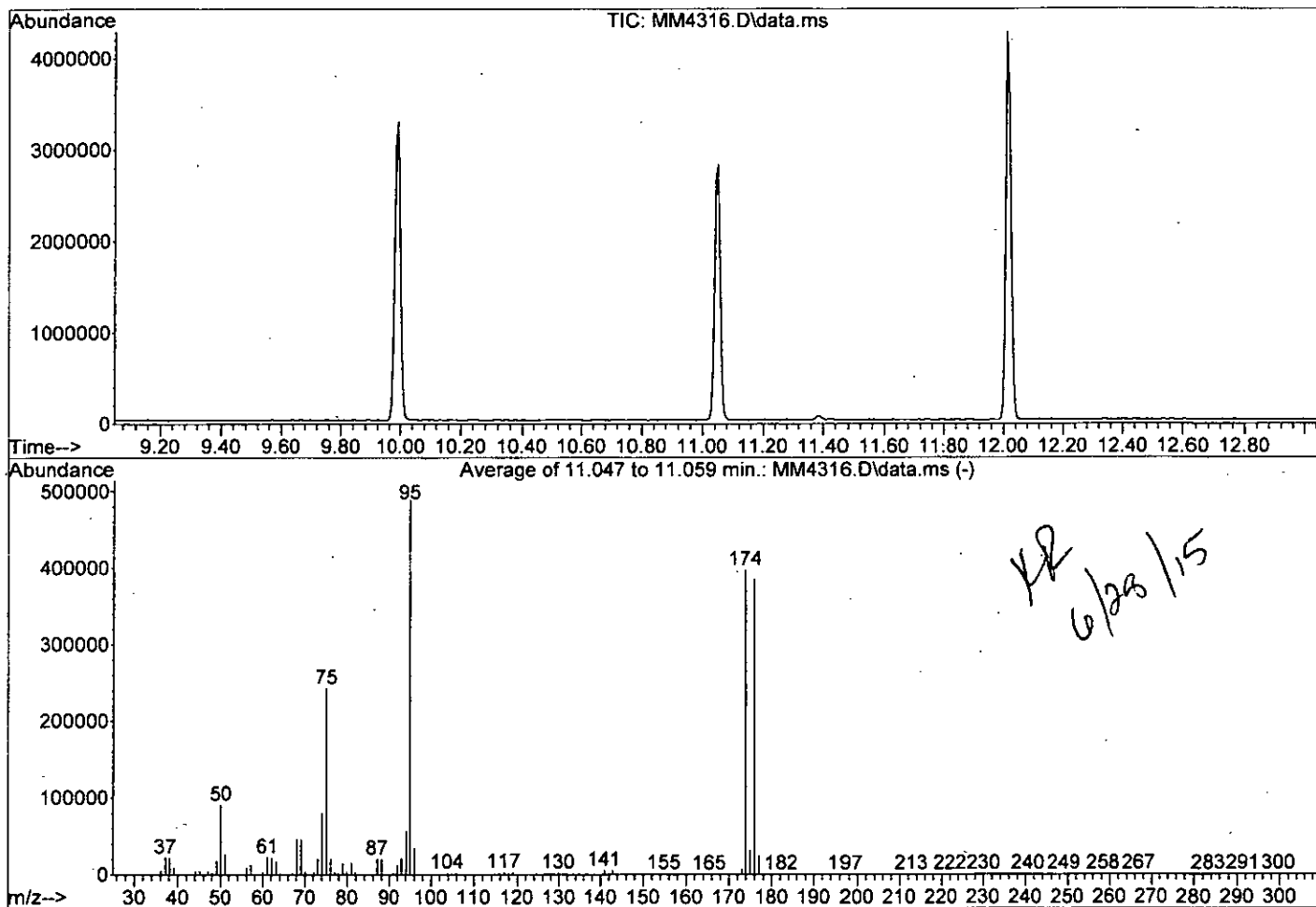
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	98344	PASS
75	95	30	60	53.0	259072	PASS
95	95	100	100	100.0	488420	PASS
96	95	5	9	6.4	31464	PASS
173	174	0.00	2	1.5	5092	PASS
174	95	50	120	71.3	348224	PASS
175	174	5	9	8.7	30371	PASS
176	174	95	101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

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4316.D
 Acq On : 28 Jun 2015 9:15 am
 Operator : K.Ruest
 Sample : TUNE *RQ15070588-01*
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Jun 05 14:19:46 2015



AutoFind: Scans 1632, 1633, 1634; Background Corrected with Scan 1626

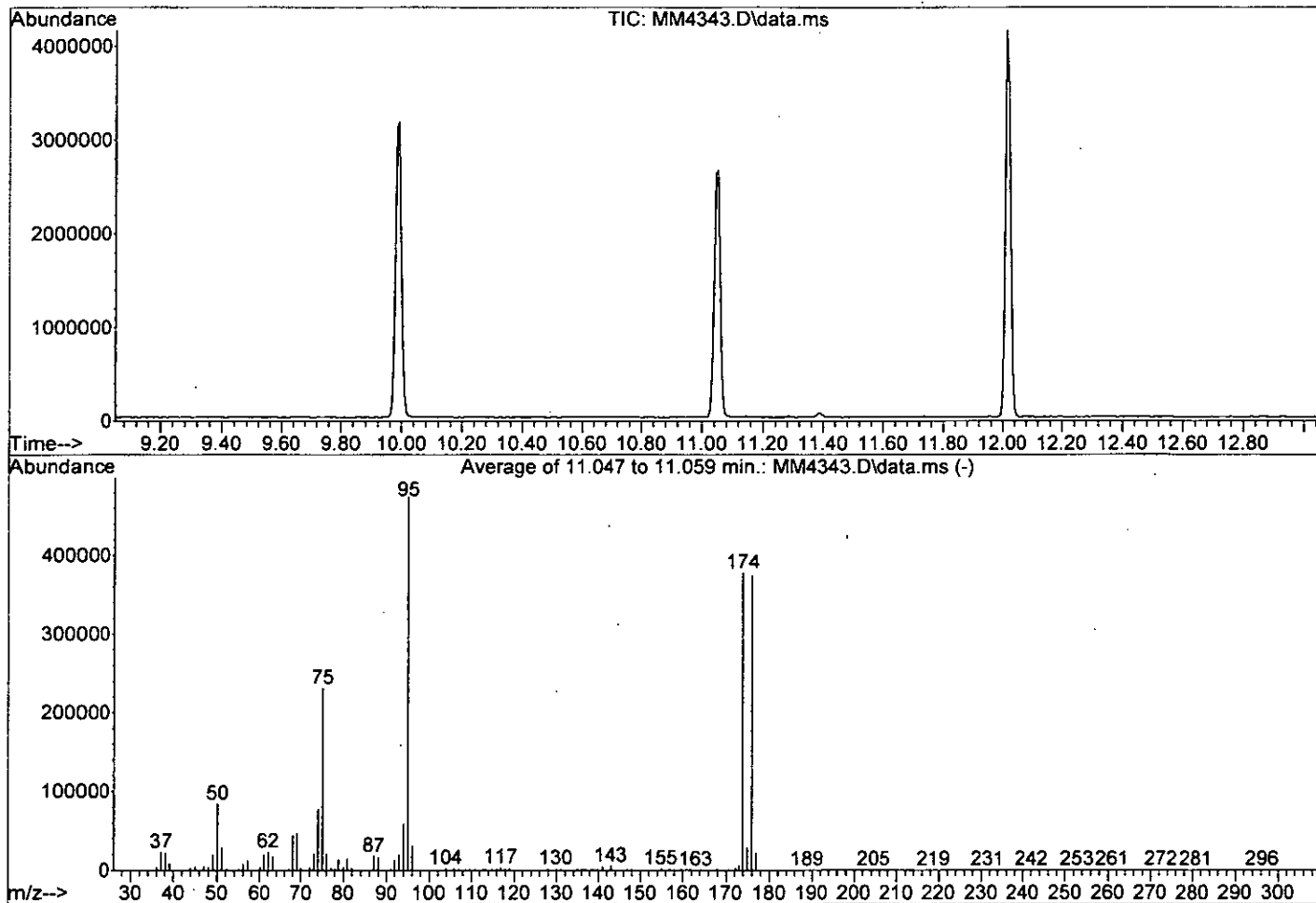
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	90968	PASS
75	95	30	60	49.5	242325	PASS
95	95	100	100	100.0	489073	PASS
96	95	5	9	7.0	34003	PASS
173	174	0.00	2	1.6	6291	PASS
174	95	50	120	81.1	396800	PASS
175	174	5	9	7.7	30397	PASS
176	174	95	101	97.0	384832	PASS
177	176	5	9	6.4	24483	PASS

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4343.D
 Acq On : 29 Jun 2015 10:02 am
 Operator : K.Ruest
 Sample : TUNE *201507136-01*
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Inst : MSVOA-12

Integration File: INTP60.P

Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Title : MS#12 - 8260B WATERS 10mL Purge
 Last Update : Fri Jun 05 14:19:46 2015



AutoFind: Scans 1632, 1633, 1634; Background Corrected with Scan 1626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	83907	PASS
75	95	30	60	48.6	230891	PASS
95	95	100	100	100.0	474962	PASS
96	95	5	9	6.4	30426	PASS
173	174	0.00	2	1.5	5529	PASS
174	95	50	120	79.5	377451	PASS
175	174	5	9	7.6	28558	PASS
176	174	95	101	99.2	374312	PASS
177	176	5	9	5.9	21977	PASS

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/28/15 11:25

Sample Name: Method Blank
 Lab Code: RQ1507088-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4320.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0	U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0	U	1.0	0.32	
75-00-3	Chloroethane	1.0	U	1.0	0.24	
74-83-9	Bromomethane	1.0	U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.57	
67-64-1	Acetone	5.0	U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0	U	1.0	0.22	
75-09-2	Methylene Chloride	1.0	U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0	U	5.0	0.81	
67-66-3	Chloroform	1.0	U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	0.45	
71-43-2	Benzene	1.0	U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.36	
79-01-6	Trichloroethene	1.0	U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0	U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	0.67	
108-88-3	Toluene	1.0	U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0	U	1.0	0.30	
591-78-6	2-Hexanone	5.0	U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0	U	1.0	0.31	
108-90-7	Chlorobenzene	1.0	U	1.0	0.29	
100-41-4	Ethylbenzene	1.0	U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0	U	2.0	0.33	
95-47-6	o-Xylene	1.0	U	1.0	0.20	
100-42-5	Styrene	1.0	U	1.0	0.20	
75-25-2	Bromoform	1.0	U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.25	

Analytical Report

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/28/15 11:25

Units: µg/L
Basis: NA

Analysis Lot: 450948

Instrument Name: R-MS-12
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	110	85-122	6/28/15 11:25	
Toluene-d8	108	87-121	6/28/15 11:25	
Dibromofluoromethane	109	89-119	6/28/15 11:25	

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4320.D

Acq On : 28 Jun 2015 11:25 am

Operator : K.Ruest

Sample : VBLK RQ1507055-04

Inst : MSVOA-12

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 11:41:37 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	896382	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1514274	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1488975	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	796655	50.00	ppb	0.00

System Monitoring Compounds

45) surr4,Dibrflmethane	5.597	113	447756	54.64	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	109.28%
48) surr1,1,2-dichloroetha...	6.097	65	480377	54.88	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	109.76%
65) SURR3,Toluene-d8	8.529	98	1930329	53.94	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.88%
70) SURR2,BFB	11.047	95	749050	55.08	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	110.16%

Target Compounds

						Qvalue
5) Bromomethane	1.683	94	1084	0.20	ppb	# 58
12) Acrolein	2.335	56	358	0.55	ppb	80
15) Acetone	2.487	43	1277	1.02	ppb	78
16) 2-Propanol	2.609	45	366	1.47	ppb	70
17) Iodomethane	2.475	142	393	1.28	ppb	70
19) Acetonitrile	2.774	40	871	5.40	ppb	# 1
21) Methyl Acetate	2.829	43	550	0.20	ppb	92
35) 2-Butanone	4.792	43	1201	0.73	ppb	# 28
36) Propionitrile	4.871	54	510	1.01	ppb	81
39) Tetrahydrofuran	5.213	42	335	0.30	ppb	73
53) 1-Butanol	7.121	56	1318	10.41	ppb	79
58) 1,4-Dioxane	7.633	88	306	5.31	ppb	76
61) 2-Nitropropane	7.962	41	594	0.44	ppb	# 39
62) 2-Chloroethylvinyl Ether	8.096	63	795	0.24	ppb	# 45
~~90) Cyclohexanone~~	~~10.888~~	~~55~~	~~206~~	~~0.94~~	~~ppb~~	~~78~~
102) 3,4-DCBTF	11.803	214	1587	0.21	ppb	# 78M
~~111) 1,2-Dibromo-3-chloropr...~~	~~12.961~~	~~157~~	~~1056~~	~~0.78~~	~~ppb~~	~~80~~
112) Trielution Dichlorotol...	13.083	125	11573	0.82	ppb	# 67M
113) 1,3,5-Trichlorobenzene	13.126	180	3861	0.37	ppb	# 68
114) Coelution Dichlorotoluene	13.406	125	9392	0.62	ppb	# 77
115) 1,2,4-Tcbenzene	13.613	180	3510	0.36	ppb	# 65
116) Hexachlorobt	13.747	225	2245	0.61	ppb	# 52
117) Naphthalen	13.802	128	6011	0.30	ppb	90
118) 1,2,3-Tclbenzene	13.991	180	3087	0.39	ppb	# 75
119) 2,4,5-Trichlorotoluene	14.570	159	11222	1.78	ppb	87
120) 2,3,6-Trichlorotoluene	14.662	159	9831	1.82	ppb	# 87

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

KR
6/29/15

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4320.D

Acq On : 28 Jun 2015 11:25 am

Operator : K.Ruest

Sample : VBLK

Misc :

ALS Vial : 4 Sample Multiplier: 1

Inst : MSVOA-12

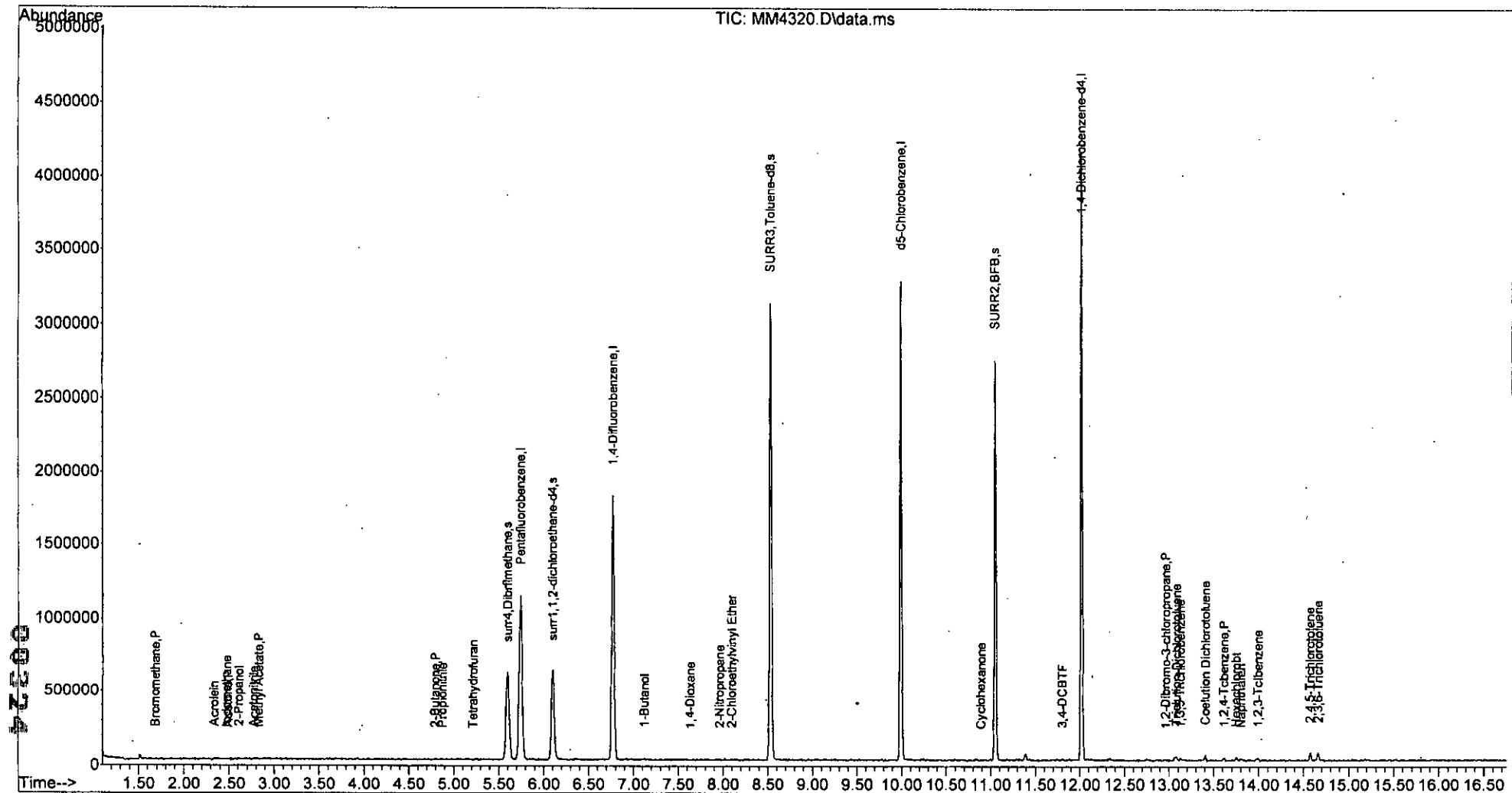
Quant Time: Jun 28 11:41:37 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration



Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/29/15 12:35

Sample Name: Method Blank
 Lab Code: RQ1507136-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\

Analysis Lot: 451047
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	1.0 U	1.0	0.21	
75-01-4	Vinyl Chloride	1.0 U	1.0	0.32	
75-00-3	Chloroethane	1.0 U	1.0	0.24	
74-83-9	Bromomethane	1.0 U	1.0	0.29	
75-35-4	1,1-Dichloroethene	1.0 U	1.0	0.57	
67-64-1	Acetone	5.0 U	5.0	1.3	
75-15-0	Carbon Disulfide	1.0 U	1.0	0.22	
75-09-2	Methylene Chloride	1.0 U	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0	0.33	
75-34-3	1,1-Dichloroethane	1.0 U	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	1.0 U	1.0	0.30	
78-93-3	2-Butanone (MEK)	5.0 U	5.0	0.81	
67-66-3	Chloroform	1.0 U	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	1.0 U	1.0	0.36	
56-23-5	Carbon Tetrachloride	1.0 U	1.0	0.45	
71-43-2	Benzene	1.0 U	1.0	0.20	
107-06-2	1,2-Dichloroethane	1.0 U	1.0	0.36	
79-01-6	Trichloroethene	1.0 U	1.0	0.22	
78-87-5	1,2-Dichloropropane	1.0 U	1.0	0.20	
75-27-4	Bromodichloromethane	1.0 U	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	
108-88-3	Toluene	1.0 U	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0	0.34	
127-18-4	Tetrachloroethene	1.0 U	1.0	0.30	
591-78-6	2-Hexanone	5.0 U	5.0	1.7	
124-48-1	Dibromochloromethane	1.0 U	1.0	0.31	
108-90-7	Chlorobenzene	1.0 U	1.0	0.29	
100-41-4	Ethylbenzene	1.0 U	1.0	0.20	
179601-23-1	m,p-Xylenes	2.0 U	2.0	0.33	
95-47-6	o-Xylene	1.0 U	1.0	0.20	
100-42-5	Styrene	1.0 U	1.0	0.20	
75-25-2	Bromoform	1.0 U	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/29/15 12:35

Sample Name: Method Blank
Lab Code: RQ1507136-04

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4348.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	111	85-122	6/29/15 12:35	
Toluene-d8	111	87-121	6/29/15 12:35	
Dibromofluoromethane	107	89-119	6/29/15 12:35	

Data Path : I:\ACQUDATA\MSVOA12\DATA\062915\
 Data File : MM4348.D
 Acq On : 29 Jun 2015 12:35 pm
 Operator : K.Ruest
 Sample : VBLK **PQ1507136-04**
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 12:50:52 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	856120	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1439526	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1420025	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	781942	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.597	113	416446	53.46	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 106.92%			
48) surr1,1,2-dichloroetha...	6.096	65	442884	53.22	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 106.44%			
65) SURR3,Toluene-d8	8.535	98	1880992	55.29	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 110.58%			
70) SURR2,BFB	11.053	95	717636	55.52	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 111.04%			
Target Compounds						
					Qvalue	
12) Acrolein	2.341	56	310	0.50	ppb	84
15) Acetone	2.463	43	638	0.53	ppb	89
16) 2-Propanol	2.670	45	399	1.67	ppb	62
17) Iodomethane	2.621	142	336	1.27	ppb	80
19) Acetonitrile	2.762	40	801	5.20	ppb	# 1
24) Acrylonitrile	3.286	53	748	0.55	ppb	# 9
35) 2-Butanone	4.725	43	424	0.27	ppb	85
36) Propionitrile	4.865	54	603	1.25	ppb	62
39) Tetrahydrofuran	5.237	42	400	0.37	ppb	76
53) 1-Butanol	7.084	56	802	6.66	ppb	74
58) 1,4-Dioxane	7.474	88	950	17.33	ppb	79
61) 2-Nitropropane	7.986	41	413	0.32	ppb	# 1
90) Cyclohexanone	10.980	55	406	1.89	ppb	# 7
91) trans-1,4-Dichloro-2-B...	11.242	53	539	0.28	ppb	# 18
~~94) 1,2,3-Trichloropropane~~	~~11.169~~	~~110~~	~~416~~	~~0.21~~	~~ppb~~	~~# 1~~
112) Trielution Dichlorotol...	13.077	125	4169	0.30	ppb	# 84
114) Coelution Dichlorotoluene	13.400	125	3431	0.23	ppb	# 62
115) 1,2,4-Tcbenzene	13.613	180	2576	0.27	ppb	# 66
116) Hexachlorobt	13.747	225	1019	0.28	ppb	# 48
118) 1,2,3-Tclbenzene	13.997	180	2097	0.27	ppb	95
119) 2,4,5-Trichlorotoluene	14.576	159	3366	0.55	ppb	# 91
120) 2,3,6-Trichlorotoluene	14.662	159	2544	0.48	ppb	# 63

KR
6/30/15

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

Data Path : I:\ACQUDATA\MSVOA12\DATA\062915\

Data File : MM4348.D

Acq On : 29 Jun 2015 12:35 pm

Operator : K.Ruest

Sample : VBLK

Misc :

ALS Vial : 8 Sample Multiplier: 1

Inst : MSVOA-12

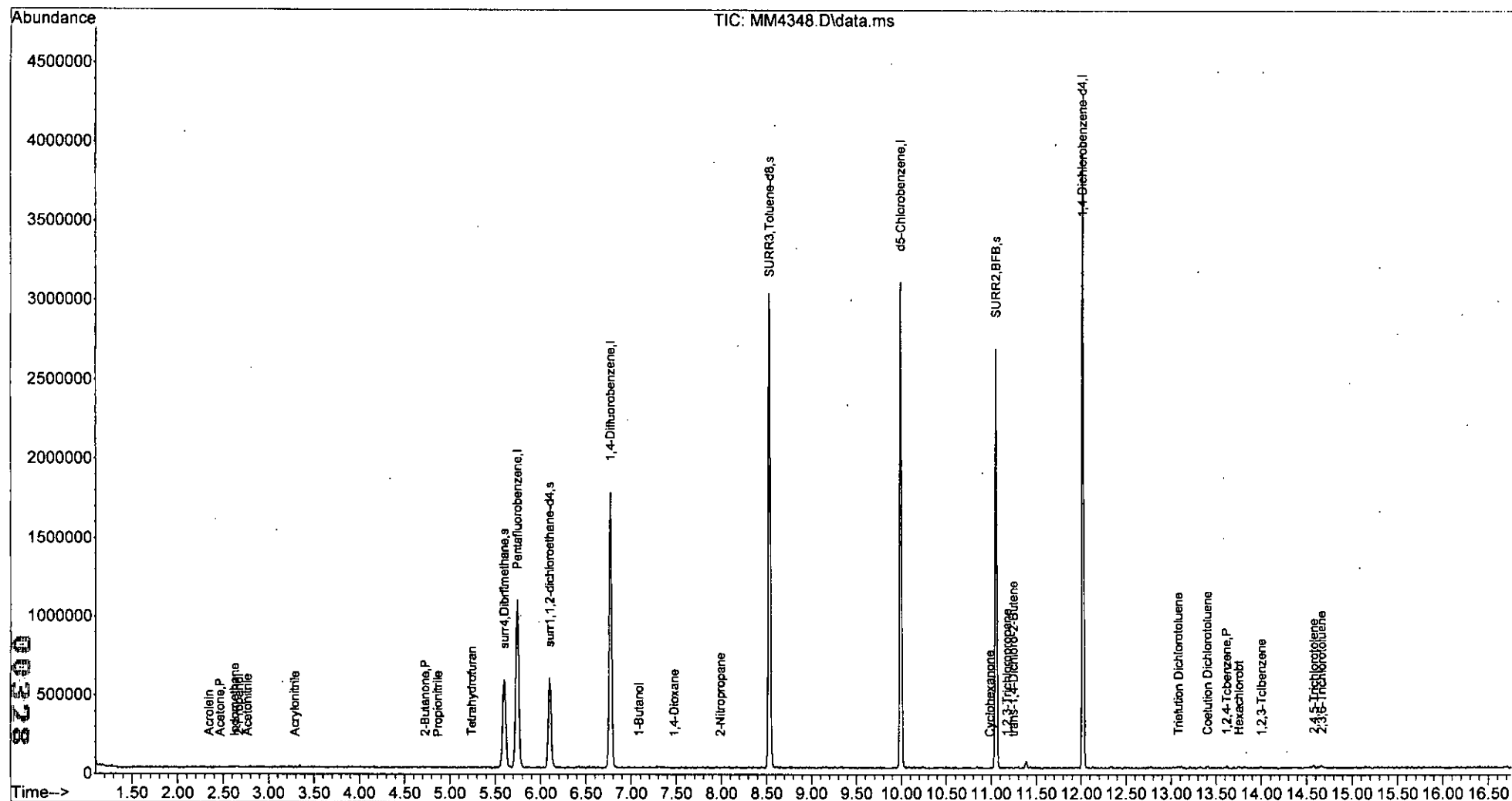
Quant Time: Jun 29 12:50:52 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/28/15 10:24

Sample Name: Lab Control Sample
Lab Code: RQ1507088-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4318.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	23.1	1.0	0.21	
75-01-4	Vinyl Chloride	20.9	1.0	0.32	
75-00-3	Chloroethane	16.0	1.0	0.24	
74-83-9	Bromomethane	20.3	1.0	0.29	
75-35-4	1,1-Dichloroethene	19.7	1.0	0.57	
67-64-1	Acetone	17.0	5.0	1.3	
75-15-0	Carbon Disulfide	20.8	1.0	0.22	
75-09-2	Methylene Chloride	19.3	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	20.1	1.0	0.33	
75-34-3	1,1-Dichloroethane	19.4	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	20.7	1.0	0.30	
78-93-3	2-Butanone (MEK)	21.1	5.0	0.81	
67-66-3	Chloroform	20.2	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	18.3	1.0	0.36	
56-23-5	Carbon Tetrachloride	18.7	1.0	0.45	
71-43-2	Benzene	20.6	1.0	0.20	
107-06-2	1,2-Dichloroethane	18.6	1.0	0.36	
79-01-6	Trichloroethene	20.0	1.0	0.22	
78-87-5	1,2-Dichloropropane	19.7	1.0	0.20	
75-27-4	Bromodichloromethane	18.9	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	18.4	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	19.4	5.0	0.67	
108-88-3	Toluene	19.5	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	18.9	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	19.9	1.0	0.34	
127-18-4	Tetrachloroethene	18.8	1.0	0.30	
591-78-6	2-Hexanone	17.9	5.0	1.7	
124-48-1	Dibromochloromethane	18.1	1.0	0.31	
108-90-7	Chlorobenzene	18.7	1.0	0.29	
100-41-4	Ethylbenzene	17.6	1.0	0.20	
179601-23-1	m,p-Xylenes	38.4	2.0	0.33	
95-47-6	o-Xylene	19.1	1.0	0.20	
100-42-5	Styrene	19.1	1.0	0.20	
75-25-2	Bromoform	17.1	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	18.3	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/28/15 10:24

Sample Name: Lab Control Sample
Lab Code: RQ1507088-03

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4318.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	110	85-122	6/28/15 10:24			
Toluene-d8	108	87-121	6/28/15 10:24			
Dibromofluoromethane	108	89-119	6/28/15 10:24			

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4318.D
 Acq On : 28 Jun 2015 10:24 am
 Operator : K.Ruest
 Sample : LCS *RQ1507088 -03*
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:53:38 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	981592	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1640666	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1574115	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	883423	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.597	113	477163	53.75	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery = 107.50%			
48) surr1,1,2-dichloroetha...	6.096	65	487560	51.41	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery = 102.82%			
65) SURR3,Toluene-d8	8.529	98	2097826	54.10	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery = 108.20%			
70) SURR2,BFB	11.047	95	808359	54.87	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery = 109.74%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.213	85	200905m	23.99	ppb	
3) Chloromethane	1.347	50	188428	23.14	ppb	98
4) Vinyl Chloride	1.433	62	214614m	20.86	ppb	
5) Bromomethane	1.689	94	118259m	20.25	ppb	
6) Chloroethane	1.768	64	109410	16.03	ppb	90
7) Freon 21	1.927	67	340796	20.00	ppb	99
8) Trichlorofluoromethane	1.975	101	284359	18.55	ppb	98
9) Diethyl Ether	2.231	59	130960	19.32	ppb	98
10) Freon 123a	2.237	67	215277	19.79	ppb	96
11) Freon 123	2.298	83	236375	18.70	ppb	97
12) Acrolein	2.341	56	10906	15.43	ppb	94
13) 1,1-Dicethene	2.433	96	142514	19.74	ppb	95
14) Freon 113	2.445	101	137185	19.20	ppb	99
15) Acetone	2.487	43	23331	16.96	ppb	88
16) 2-Propanol	2.646	45	93803	343.26	ppb	93
17) Iodomethane	2.573	142	124635	14.98	ppb	95
18) Carbon Disulfide	2.640	76	480334	20.76	ppb	100
19) Acetonitrile	2.774	40	21501	121.74	ppb	# 72
20) Allyl Chloride	2.798	76	82444	18.98	ppb	# 87
21) Methyl Acetate	2.829	43	59050	19.71	ppb	87
22) Methylene Chloride	2.926	84	148053	19.30	ppb	95
23) TBA	3.091	59	179165	367.58	ppb	98
24) Acrylonitrile	3.213	53	163977	104.85	ppb	97
25) Methyl-t-Butyl Ether	3.262	73	377130	20.11	ppb	99
26) trans-1,2-Dichloroethene	3.249	96	162268	20.12	ppb	95
28) 1,1-Dicethane	3.798	63	258494	19.40	ppb	95
29) Vinyl Acetate	3.908	86	26622	16.66	ppb	99
30) DIPE	3.944	45	437851	18.90	ppb	96
31) 2-Chloro-1,3-Butadiene	3.926	53	253607	17.49	ppb	98
32) ETBE	4.524	59	418150	18.11	ppb	99
33) 2,2-Dichloropropane	4.706	77	244618	19.27	ppb	97
34) cis-1,2-Dichloroethene	4.719	96	178210	20.72	ppb	92
35) 2-Butanone	4.786	43	38076	21.06	ppb	85
36) Propionitrile	4.865	54	57038	103.30	ppb	95

K2
6/28/15

Data Path : I:\ACQUDATA\msvoal2\Data\062815\

Data File : MM4318.D

Acq On : 28 Jun 2015 10:24 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA-12

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:53:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
37) Bromochloromethane	5.152	130	100706	21.19	ppb	97
38) Methacrylonitrile	5.158	67	40712	19.76	ppb #	81
39) Tetrahydrofuran	5.237	42	25942	21.09	ppb	91
40) Chloroform	5.334	83	283822	20.21	ppb	98
41) 1,1,1-Trichloroethane	5.597	97	246519	18.25	ppb	93
42) TAME	6.401	73	404310	20.08	ppb	95
44) Cyclohexane	5.676	41	131875	17.70	ppb	99
46) Carbontetrachloride	5.865	121	66686m	18.68	ppb	
47) 1,1-Dichloropropene	5.871	75	207587	18.39	ppb	92
49) Benzene	6.176	78	668398	20.56	ppb	97
50) 1,2-Dichloroethane	6.212	62	193352	18.55	ppb	96
51) Iso-Butyl Alcohol	6.206	43	75171	348.04	ppb	90
52) n-Heptane	6.645	43	140512	20.29	ppb	94
53) 1-Butanol	7.115	56	129434	943.68	ppb	98
54) Trichloroethene	7.084	130	175477	19.99	ppb	94
55) Methylcyclohexane	7.316	55	155780	18.98	ppb	92
56) 1,2-Dichloropropane	7.352	63	152930	19.66	ppb	98
57) Dibromomethane	7.492	93	78244	18.68	ppb	92
58) 1,4-Dioxane	7.547	88	23686m	379.04	ppb	
59) Methyl Methacrylate	7.578	69	72870	19.21	ppb #	83
60) Bromodichloromethane	7.712	83	211826	18.87	ppb	98
61) 2-Nitropropane	7.980	41	37898	26.11	ppb	91
62) 2-Chloroethylvinyl Ether	8.108	63	76459	21.30	ppb	98
63) cis-1,3-Dichloropropene	8.242	75	240908	18.44	ppb	98
64) 4-Methyl-2-pentanone	8.437	43	85982	19.39	ppb	84
66) Toluene	8.602	91	727925	19.52	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	211451	18.91	ppb	97
68) Ethyl Methacrylate	8.998	69	159120	19.61	ppb	93
69) 1,1,2-Trichloroethane	9.047	97	119786	19.91	ppb	97
72) Tetrachloroethene	9.181	164	135519	18.77	ppb	95
73) 2-Hexanone	9.328	43	57102	17.92	ppb	95
74) 1,3-Dichloropropane	9.212	76	204368	19.77	ppb	97
75) Dibromochloromethane	9.431	129	140616	18.07	ppb	99
76) N-Butyl Acetate	9.480	43	147536	17.63	ppb	95
77) 1,2-Dibromoethane	9.529	107	117517	19.25	ppb	96
78) Chlorobenzene	10.016	112	479947	18.73	ppb	97
79) 3-CBTF	10.029	180	238968	19.78	ppb	97
80) 4-CBTF	10.083	180	215680	19.71	ppb	97
81) 1,1,1,2-Tetrachloroethane	10.102	131	165462	19.20	ppb	97
82) Ethylbenzene	10.132	106	244294	17.61	ppb #	90
83) (m+p)Xylene	10.242	106	649946	38.44	ppb	99
84) o-Xylene	10.596	106	313345	19.14	ppb	95
85) Styrene	10.608	104	535188	19.05	ppb	99
87) Bromoform	10.760	173	77435	17.12	ppb	97
88) 2-CBTF	10.833	180	239807	18.71	ppb	95
89) Isopropylbenzene	10.925	105	779854	19.02	ppb	97
90) Cyclohexanone	10.986	55	212451	873.91	ppb	86
91) trans-1,4-Dichloro-2-B...	11.230	53	37221	16.87	ppb	91
92) 1,1,2,2-Tetrachloroethane	11.181	83	136894	18.34	ppb	94
93) Bromobenzene	11.175	156	190228	18.60	ppb	98
94) 1,2,3-Trichloropropane	11.211	110	42450	18.69	ppb #	85

Data Path : I:\ACQUDATA\msvoal2\Data\062815\

Data File : MM4318.D

Acq On : 28 Jun 2015 10:24 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA-12

Misc :

ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 10:53:38 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

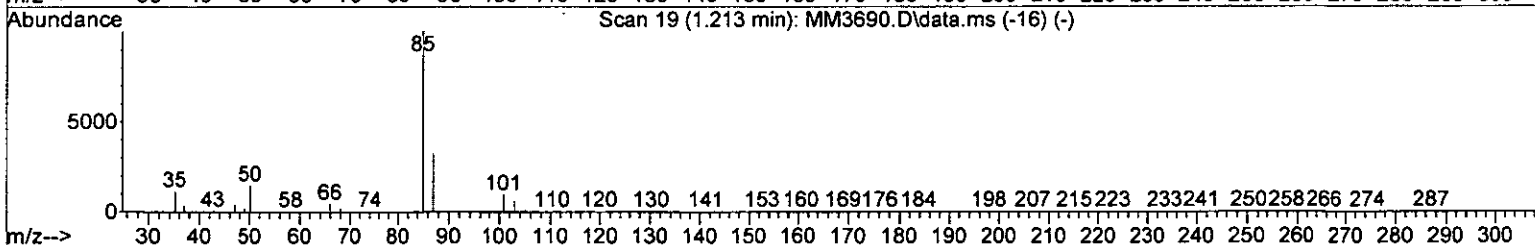
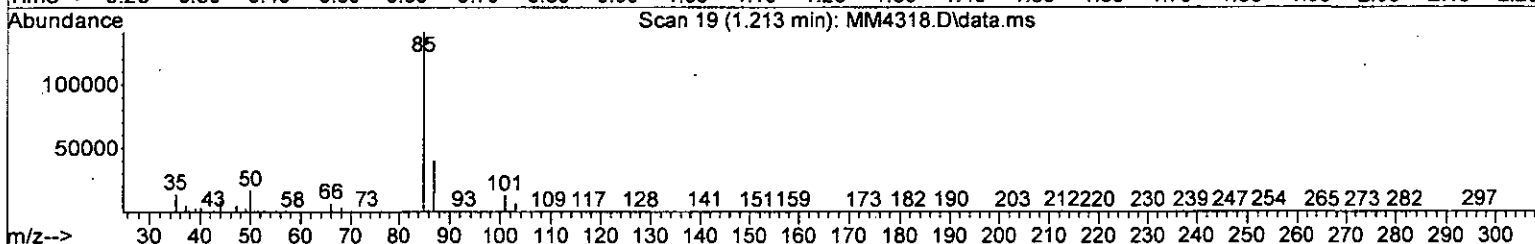
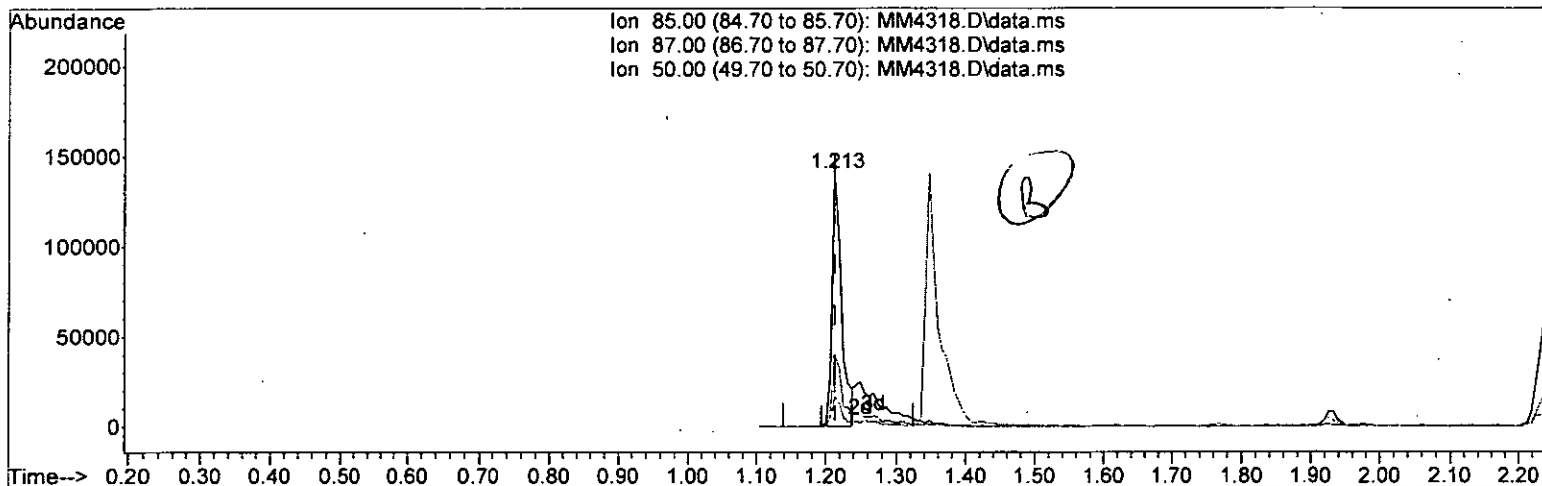
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	899758	19.49	ppb	97
96) 2-Chlorotoluene	11.339	91	546051	19.20	ppb	97
97) 3-Chlorotoluene	11.394	91	567975	18.85	ppb	98
98) 4-Chlorotoluene	11.431	91	678266	19.29	ppb	96
99) 1,3,5-Trimethylbenzene	11.431	105	658008	18.72	ppb	99
100) tert-Butylbenzene	11.699	119	539113	19.04	ppb	98
101) 1,2,4-Trimethylbenzene	11.742	105	678576	19.13	ppb	98
102) 3,4-DCBTF	11.803	214	164926	19.66	ppb	92
103) sec-Butylbenzene	11.882	105	752259	19.38	ppb	99
104) p-Isopropyltoluene	12.004	119	666133	20.18	ppb	96
105) 1,3-Dclbenz	11.961	146	384429	19.34	ppb	99
106) 1,4-Dclbenz	12.040	146	397825	19.21	ppb	97
107) 2,4-DCBTF	12.089	214	152891	20.65	ppb	95
108) 2,5-DCBTF	12.126	214	169299	20.34	ppb	93
109) n-Butylbenzene	12.333	91	584726	19.74	ppb	98
110) 1,2-Dclbenz	12.339	146	372254	20.03	ppb	94
111) 1,2-Dibromo-3-chloropr...	12.955	157	26533	17.56	ppb	90
112) Trielution Dichlorotol...	13.071	125	957341	61.18	ppb	94
113) 1,3,5 Trichlorobenzene	13.132	180	246413	21.14	ppb	92
114) Coelution Dichlorotoluene	13.406	125	697209	41.59	ppb	99
115) 1,2,4-Tcbenzene	13.613	180	223251	20.92	ppb	97
116) Hexachlorobt	13.747	225	88748	21.60	ppb	97
117) Naphthalen	13.802	128	481592	21.50	ppb	99
118) 1,2,3-Tclbenzene	13.991	180	191335	21.93	ppb	99
119) 2,4,5-Trichlorotoluene	14.570	159	197772	28.35	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	181348	30.23	ppb	99

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

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 15.44 ppb

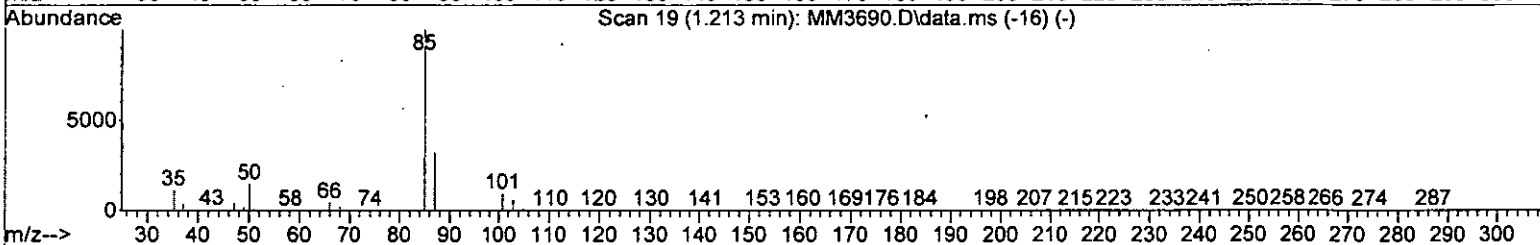
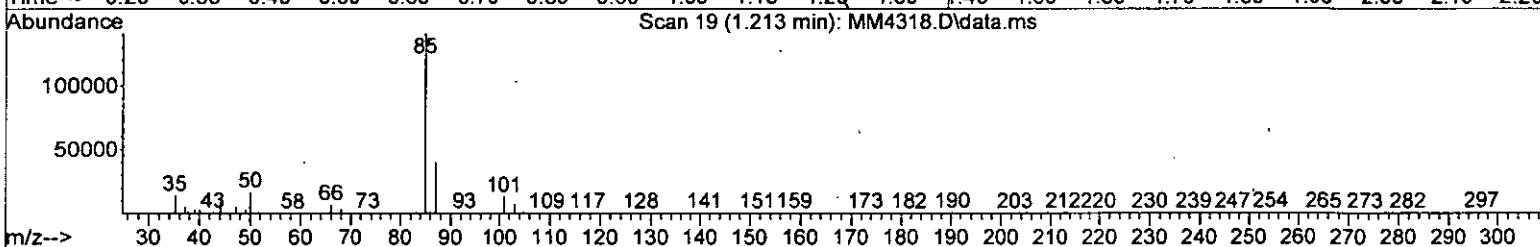
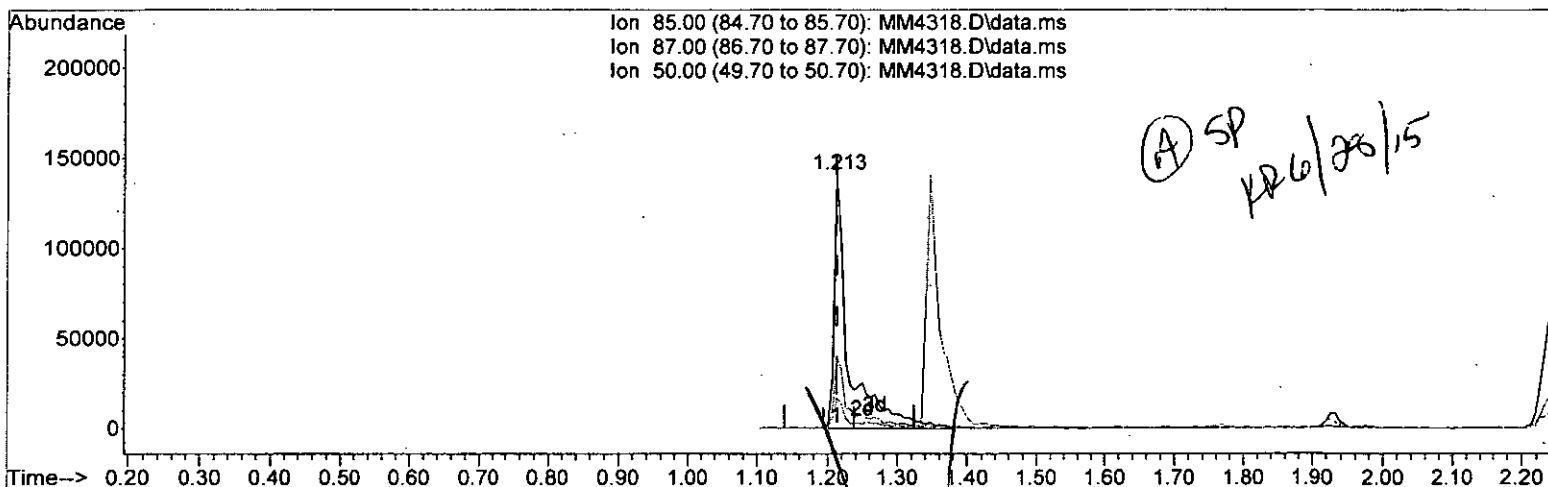
response 129298

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	28.43
50.00	14.50	11.77
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4318.D
 Acq On : 28 Jun 2015 10:24 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4318.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 23.99 ppb m

response 200905

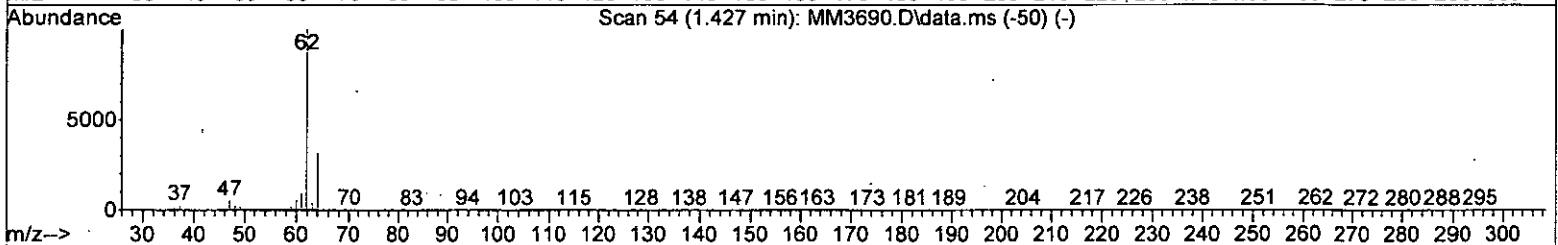
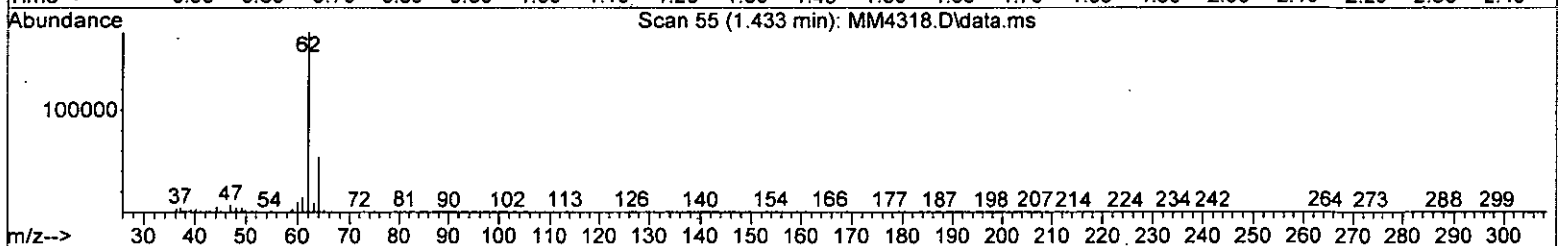
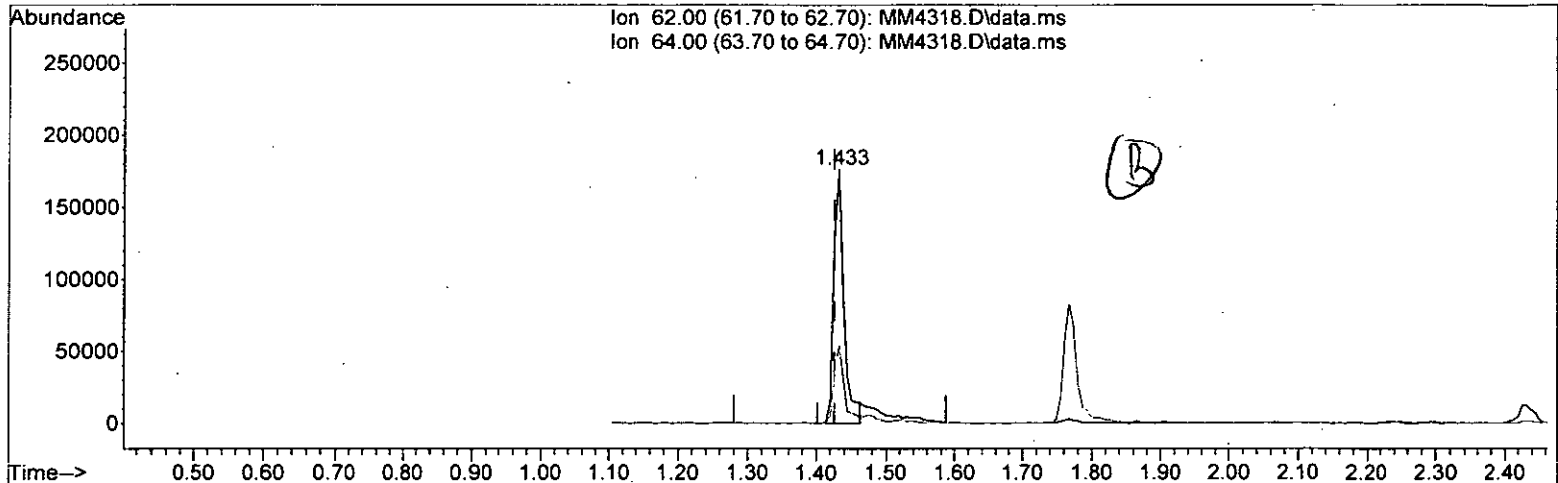
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	28.43
50.00	14.50	11.77
0.00	0.00	0.00

mw
cp

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4318.D
 Acq On : 28 Jun 2015 10:24 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4318.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 17.30 ppb

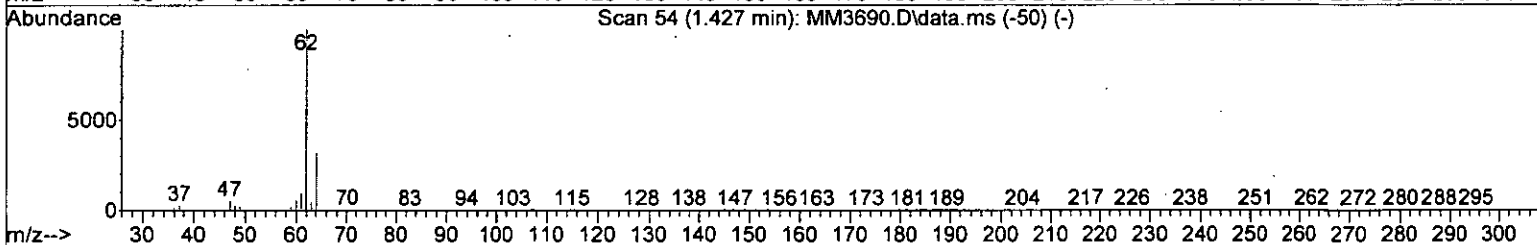
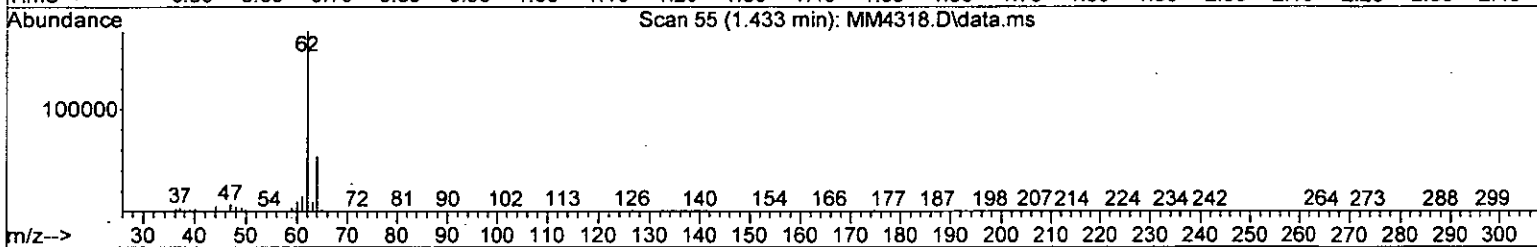
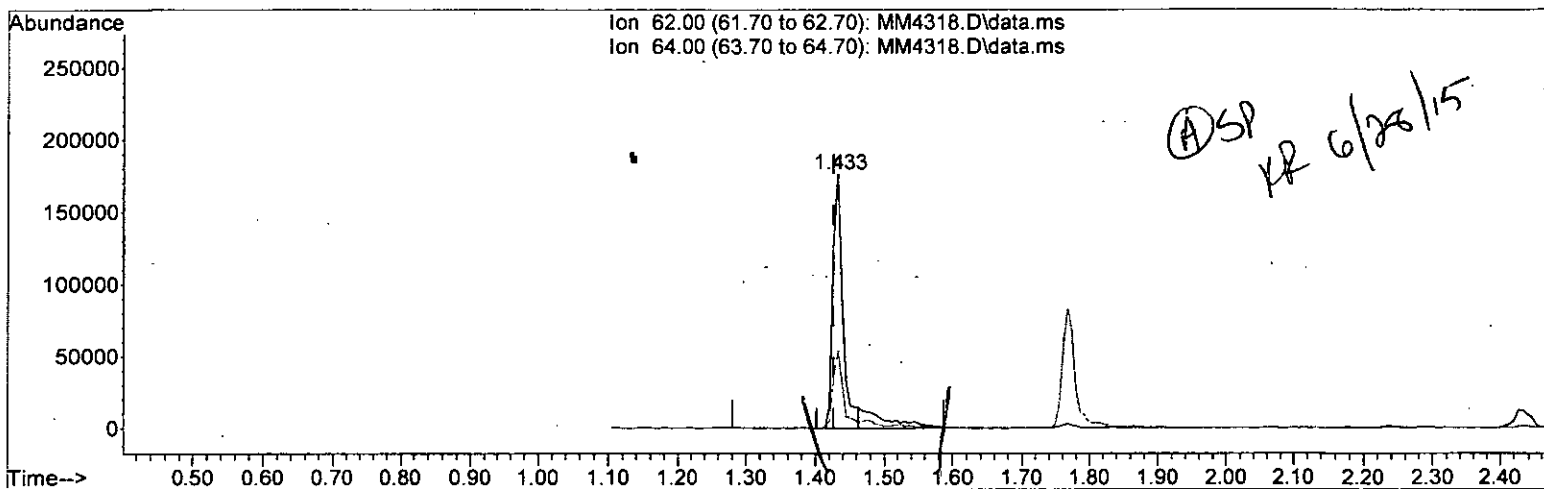
response 177985

Ion	Exp%	Act%
62.00	100	100
64.00	31.50	30.39
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoal2\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
Qlast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(4) Vinyl Chloride (P)

1.433min (+0.006) 20.86 ppb m

response 214614

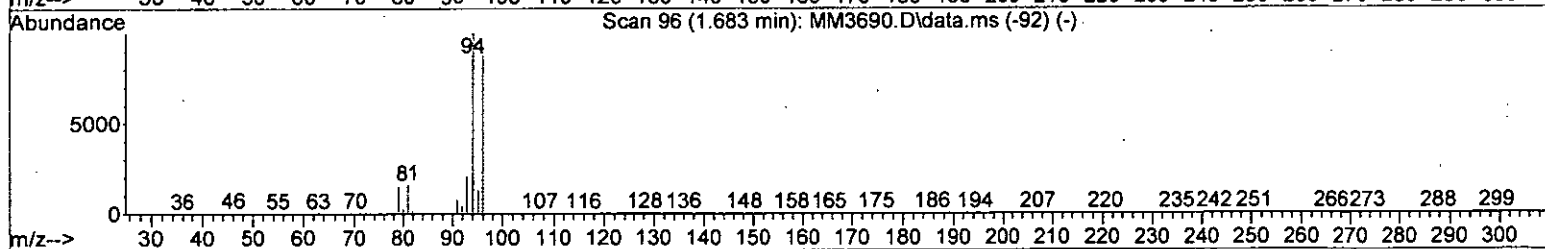
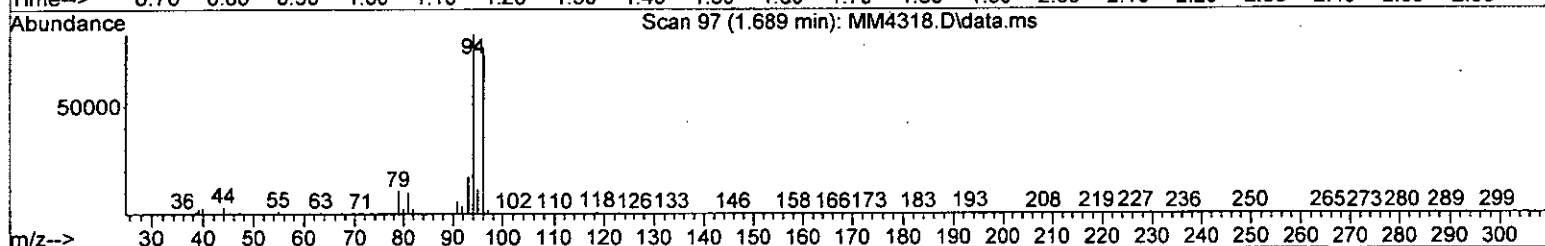
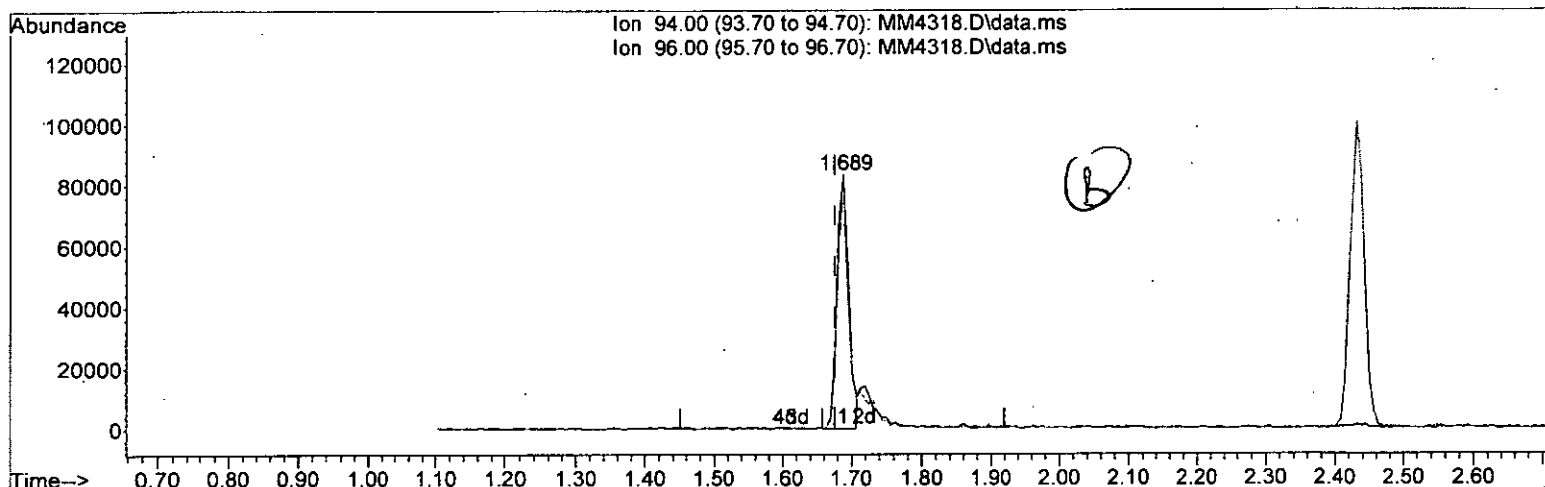
Ion	Exp%	Act%
62.00	100	100
64.00	31.50	30.39
0.00	0.00	0.00
0.00	0.00	0.00

mw
41.

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4318.D
 Acq On : 28 Jun 2015 10:24 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4318.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 16.13 ppb

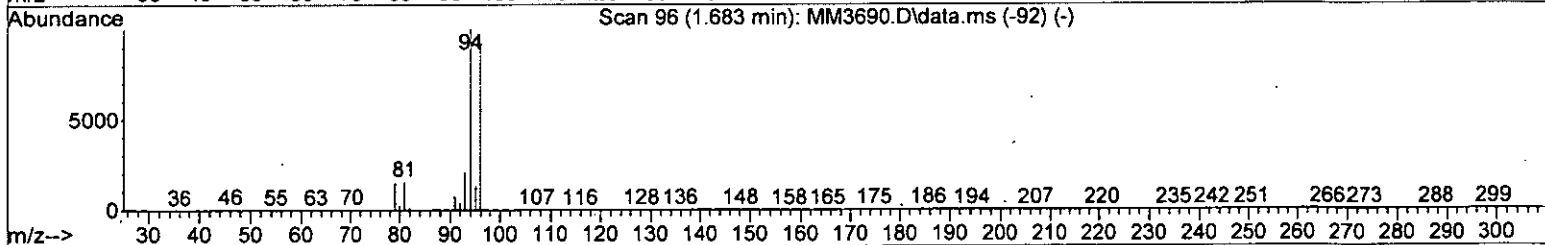
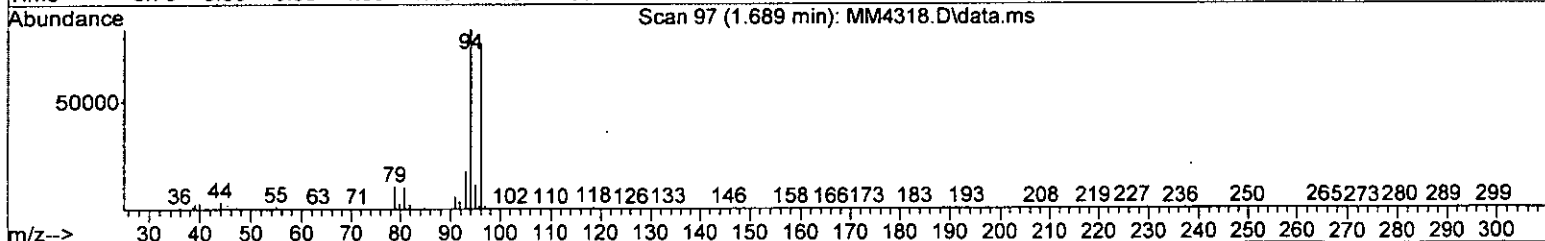
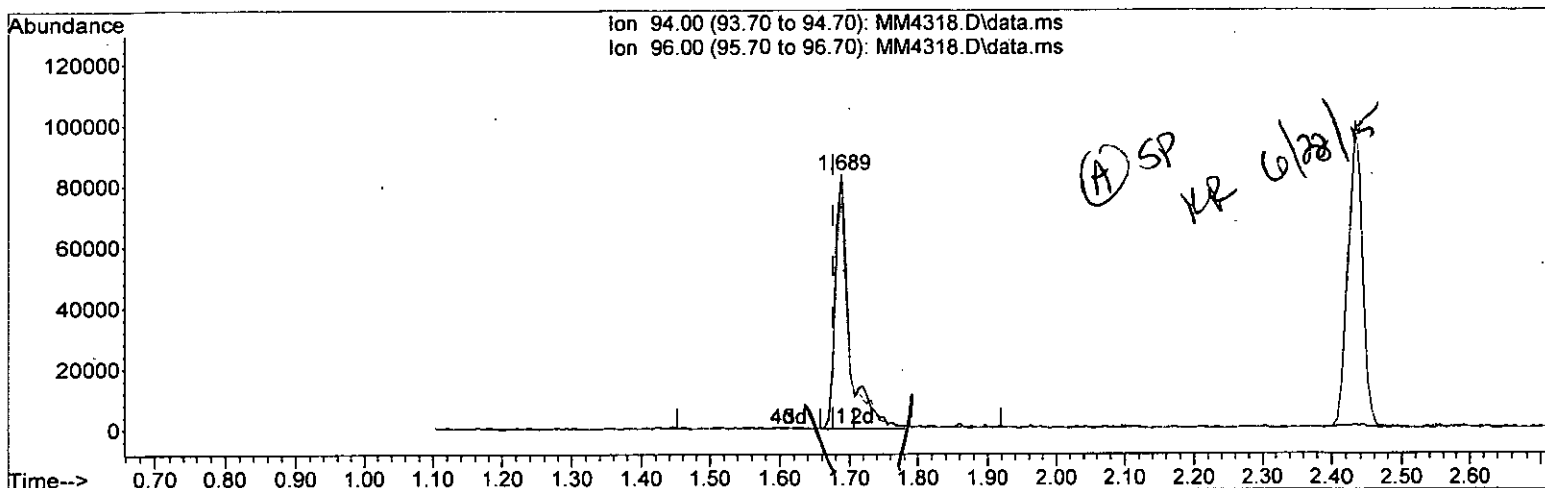
response 94221

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	91.37
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4318.D
 Acq On : 28 Jun 2015 10:24 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4318.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 20.25 ppb m

response 118259

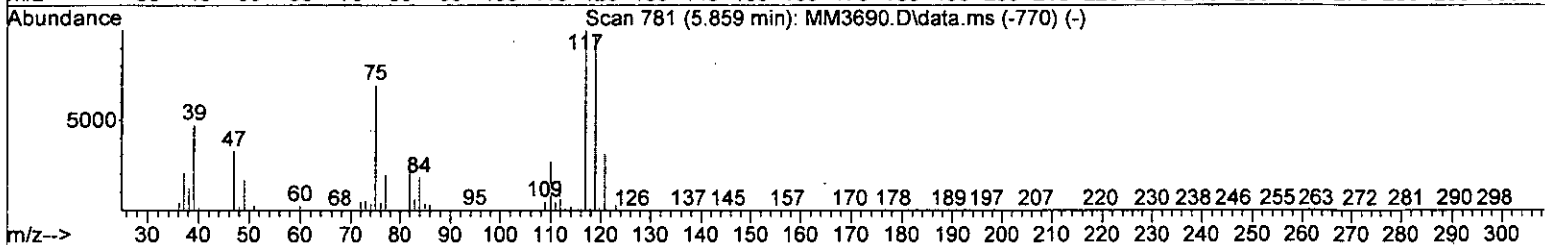
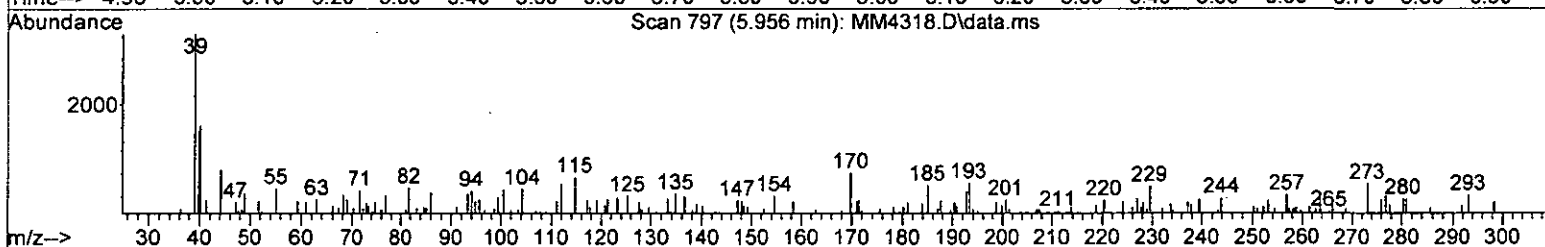
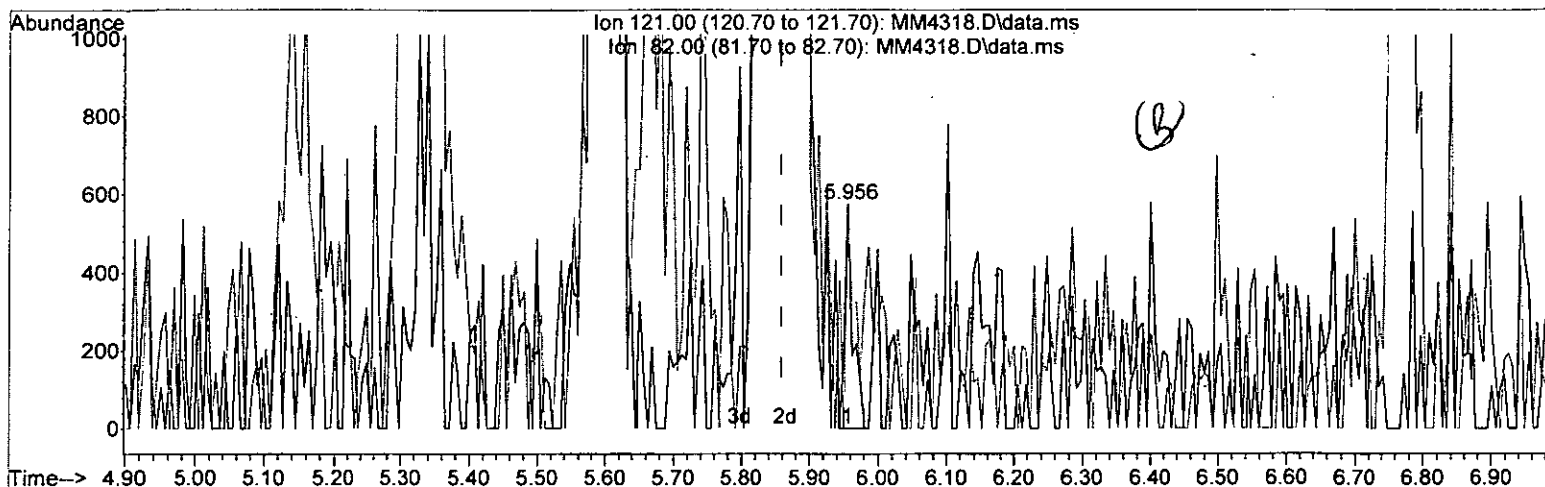
Ion	Exp%	Act%
94.00	100	100
96.00	91.80	91.37
0.00	0.00	0.00
0.00	0.00	0.00

mm
ch.

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(46) Carbontetrachloride (P)

5.956min (+0.097) 0.13 ppb

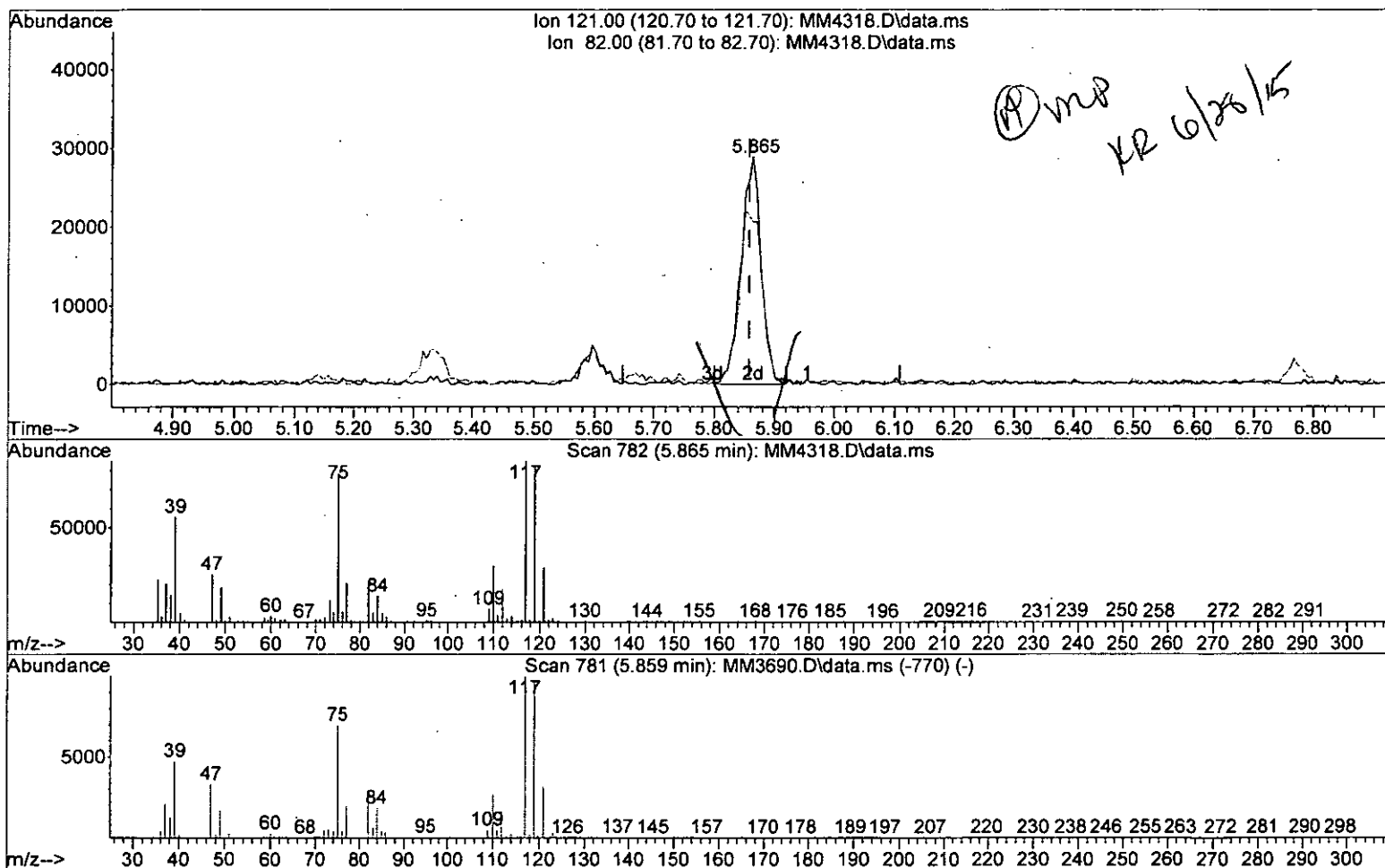
response 463

Ion	Exp%	Act%
121.00	100	100
82.00	93.50	93.91
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(46) Carbontetrachloride (P)

5.865min (+0.006) 18.68 ppb m

response 66686

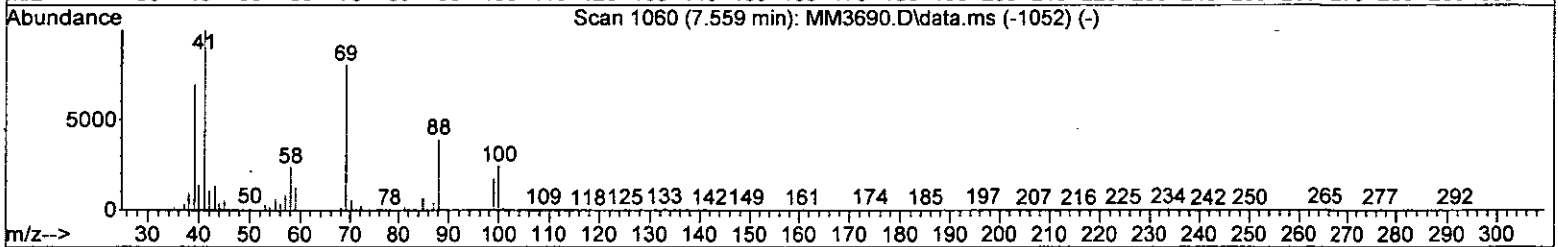
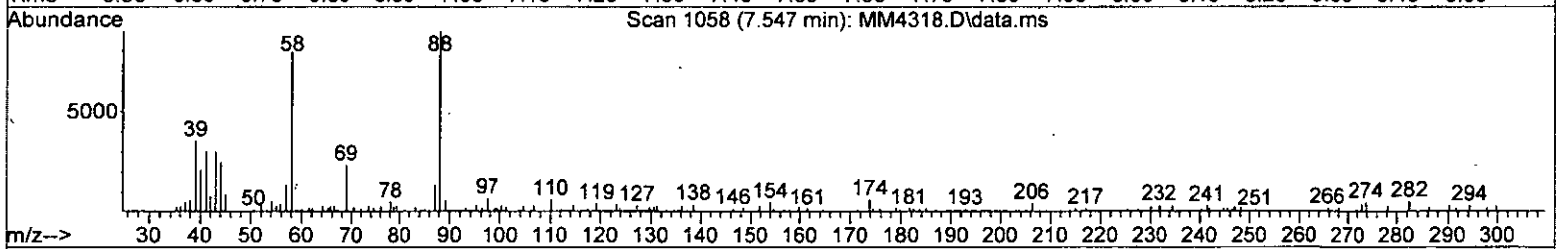
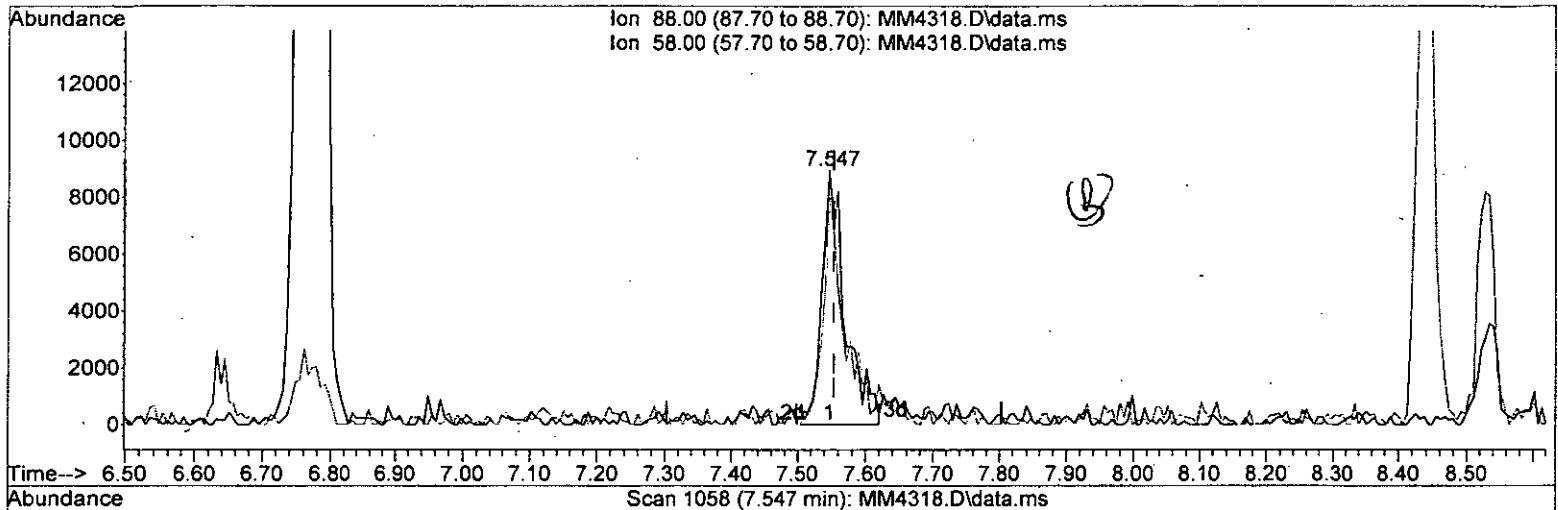
Ion	Exp%	Act%
121.00	100	100
82.00	93.50	71.48#
0.00	0.00	0.00
0.00	0.00	0.00

mm
ch.

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 340.93 ppb

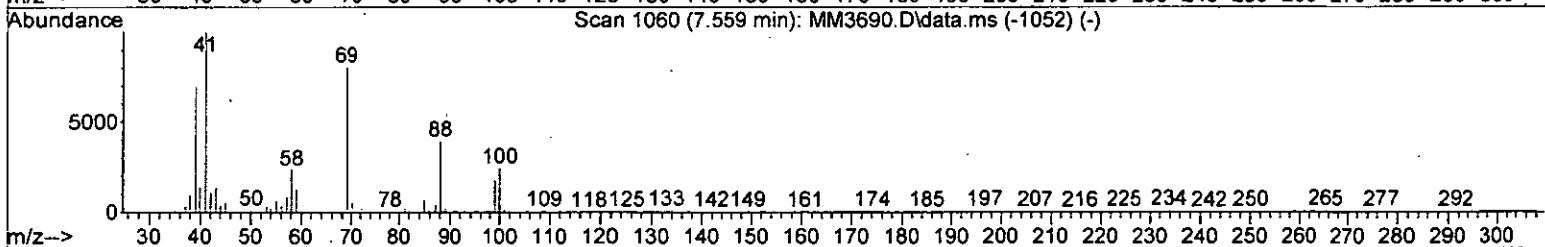
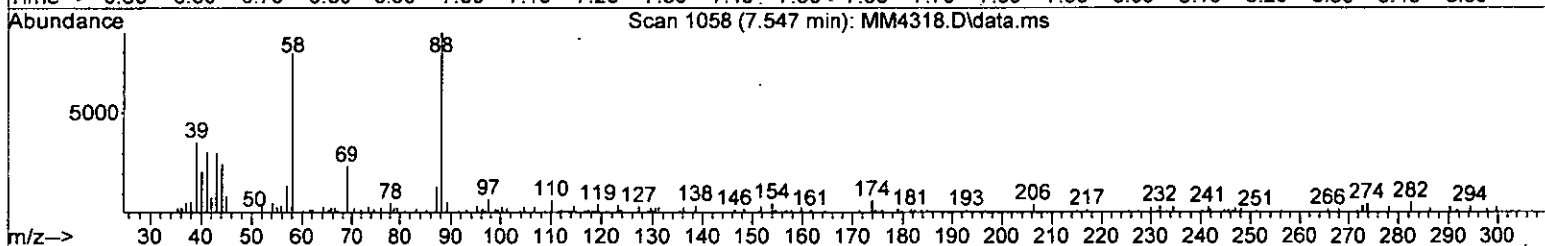
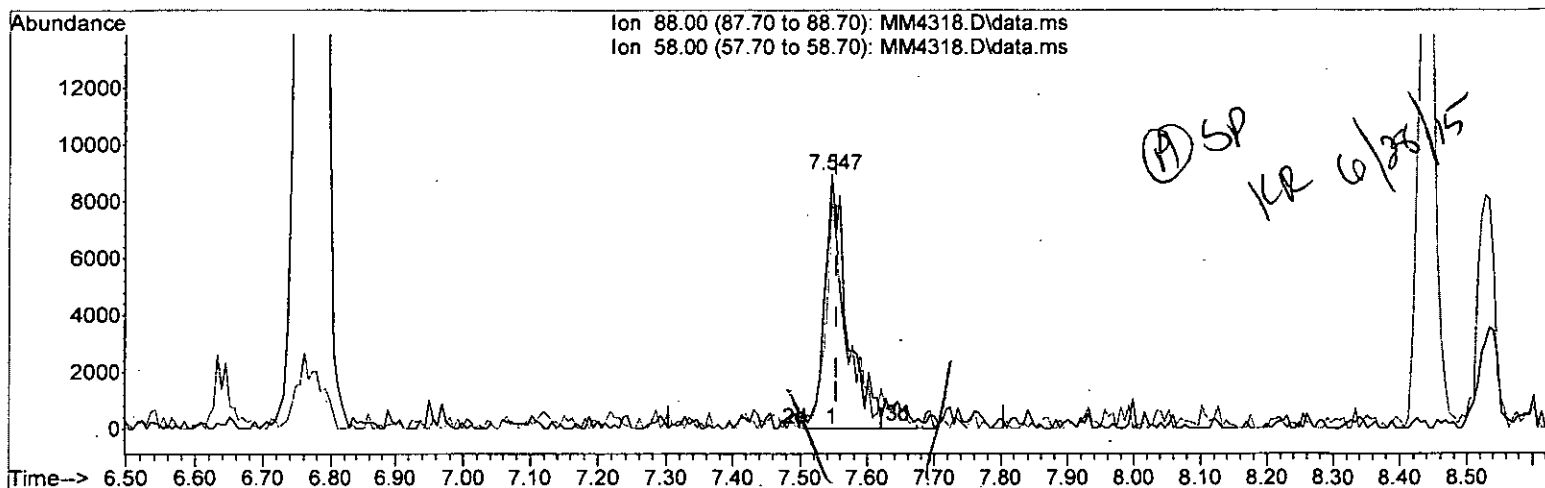
response 21305

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	89.05#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4318.D
Acq On : 28 Jun 2015 10:24 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 2 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 10:40:32 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4318.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 379.04 ppb m

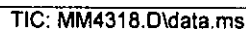
response 23686

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	89.05#
0.00	0.00	0.00
0.00	0.00	0.00

www
di

Inst : MSVOA-12

Inst : MSVOA-12



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 6/29/15 11:03

Sample Name: Lab Control Sample
 Lab Code: RQ1507136-03

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4345.D\

Analysis Lot: 451047
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	23.9	1.0	0.21	
75-01-4	Vinyl Chloride	21.8	1.0	0.32	
75-00-3	Chloroethane	17.8	1.0	0.24	
74-83-9	Bromomethane	18.3	1.0	0.29	
75-35-4	1,1-Dichloroethene	20.1	1.0	0.57	
67-64-1	Acetone	16.7	5.0	1.3	
75-15-0	Carbon Disulfide	20.0	1.0	0.22	
75-09-2	Methylene Chloride	20.5	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	20.8	1.0	0.33	
75-34-3	1,1-Dichloroethane	20.7	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	21.3	1.0	0.30	
78-93-3	2-Butanone (MEK)	22.5	5.0	0.81	
67-66-3	Chloroform	21.6	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	20.1	1.0	0.36	
56-23-5	Carbon Tetrachloride	19.0	1.0	0.45	
71-43-2	Benzene	20.9	1.0	0.20	
107-06-2	1,2-Dichloroethane	19.5	1.0	0.36	
79-01-6	Trichloroethene	20.9	1.0	0.22	
78-87-5	1,2-Dichloropropane	20.7	1.0	0.20	
75-27-4	Bromodichloromethane	19.3	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	19.4	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	21.2	5.0	0.67	
108-88-3	Toluene	20.6	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	20.1	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	21.6	1.0	0.34	
127-18-4	Tetrachloroethene	20.3	1.0	0.30	
591-78-6	2-Hexanone	19.7	5.0	1.7	
124-48-1	Dibromochloromethane	18.9	1.0	0.31	
108-90-7	Chlorobenzene	19.9	1.0	0.29	
100-41-4	Ethylbenzene	17.8	1.0	0.20	
179601-23-1	m,p-Xylenes	39.9	2.0	0.33	
95-47-6	o-Xylene	20.0	1.0	0.20	
100-42-5	Styrene	19.8	1.0	0.20	
75-25-2	Bromoform	17.4	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	19.4	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: NA
Date Received: NA
Date Analyzed: 6/29/15 11:03

Sample Name: Lab Control Sample
Lab Code: RQ1507136-03

Units: Percent
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062915\MM4345.D\

Analysis Lot: 451047
Instrument Name: R-MS-12
Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	113	85-122	6/29/15 11:03	
Toluene-d8	106	87-121	6/29/15 11:03	
Dibromofluoromethane	109	89-119	6/29/15 11:03	

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS *PG 1507136-03*
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:23:45 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	926910	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1550773	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1521844	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.016	152	886182	50.00	ppb	0.00

System Monitoring Compounds

45) surr4, Dibrflmethane	5.603	113	458445	54.63	ppb	0.00
Spiked Amount 50.000	Range 89 - 119		Recovery =	109.26%		
48) surr1, 1,2-dichloroetha...	6.103	65	471315	52.58	ppb	0.00
Spiked Amount 50.000	Range 78 - 122		Recovery =	105.16%		
65) SURR3, Toluene-d8	8.535	98	1950701	53.22	ppb	0.00
Spiked Amount 50.000	Range 87 - 121		Recovery =	106.44%		
70) SURR2, BFB	11.053	95	789665	56.70	ppb	0.00
Spiked Amount 50.000	Range 85 - 122		Recovery =	113.40%		

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.213	85	208213m	26.33	ppb	
3) Chloromethane	1.347	50	183497	23.86	ppb	95
4) Vinyl Chloride	1.433	62	211985	21.82	ppb	95
5) Bromomethane	1.689	94	100677m	18.26	ppb	
6) Chloroethane	1.768	64	114530	17.77	ppb	100
7) Freon 21	1.927	67	350081	21.75	ppb	99
8) Trichlorofluoromethane	1.975	101	293974	20.31	ppb	99
9) Diethyl Ether	2.231	59	132816	20.75	ppb	90
10) Freon 123a	2.237	67	206134	20.07	ppb	95
11) Freon 123	2.298	83	229358	19.22	ppb	94
12) Acrolein	2.341	56	9280	13.91	ppb	83
13) 1,1-Dicethene	2.433	96	137130	20.12	ppb	98
14) Freon 113	2.445	101	141529	20.97	ppb	97
15) Acetone	2.494	43	21712	16.71	ppb	88
16) 2-Propanol	2.646	45	99890	387.10	ppb	91
17) Iodomethane	2.573	142	105819	13.59	ppb	91
18) Carbon Disulfide	2.640	76	436143	19.97	ppb	99
19) Acetonitrile	2.768	40	14276	85.60	ppb	88
20) Allyl Chloride	2.798	76	78990	19.25	ppb	# 92
21) Methyl Acetate	2.829	43	56143	19.84	ppb	92
22) Methylene Chloride	2.926	84	148798	20.54	ppb	97
23) TBA	3.091	59	203408	441.94	ppb	92
24) Acrylonitrile	3.213	53	171169	115.91	ppb	97
25) Methyl-t-Butyl Ether	3.262	73	378774	21.39	ppb	96
26) trans-1,2-Dichloroethene	3.243	96	158113	20.76	ppb	99
28) 1,1-Dicethane	3.792	63	259966	20.66	ppb	95
29) Vinyl Acetate	3.914	86	29426m	19.50	ppb	
30) DIPE	3.951	45	409060	18.70	ppb	96
31) 2-Chloro-1,3-Butadiene	3.926	53	232359	16.97	ppb	99
32) ETBE	4.536	59	404282	18.54	ppb	98
33) 2,2-Dichloropropane	4.713	77	242551	20.23	ppb	95
34) cis-1,2-Dichloroethene	4.719	96	172945	21.30	ppb	96
35) 2-Butanone	4.780	43	38424	22.50	ppb	97
36) Propionitrile	4.877	54	61042	117.08	ppb	98

YK
6/29/15

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4345.D

Acq On : 29 Jun 2015 11:03 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA-12

Misc :

ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 11:23:45 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.145	130	97405	21.70	ppb	97
38) Methacrylonitrile	5.158	67	41656m	21.41	ppb	
39) Tetrahydrofuran	5.243	42	25938	22.33	ppb	87
40) Chloroform	5.334	83	286226	21.58	ppb	91
41) 1,1,1-Trichloroethane	5.603	97	255712	20.05	ppb	94
42) TAME	6.407	73	391213	20.57	ppb	94
44) Cyclohexane	5.682	41	125583	17.83	ppb	96
46) Carbontetrachloride	5.859	121	64044	18.98	ppb	91
47) 1,1-Dichloropropene	5.877	75	205571	19.26	ppb	93
49) Benzene	6.176	78	641851	20.88	ppb	99
50) 1,2-Dichloroethane	6.212	62	192140	19.50	ppb	94
51) Iso-Butyl Alcohol	6.200	43	85131	417.01	ppb	80
52) n-Heptane	6.645	43	139654	21.33	ppb	98
53) 1-Butanol	7.121	56	138722	1070.03	ppb	97
54) Trichloroethene	7.084	130	173670	20.93	ppb	97
55) Methylcyclohexane	7.316	55	163286	21.04	ppb	96
56) 1,2-Diclpropane	7.358	63	152091	20.69	ppb	95
57) Dibromomethane	7.493	93	83282	21.03	ppb	91
58) 1,4-Dioxane	7.560	88	24637	417.11	ppb	87
59) Methyl Methacrylate	7.578	69	78881	22.00	ppb	# 84
60) Bromodichloromethane	7.712	83	204778	19.30	ppb	98
61) 2-Nitropropane	7.986	41	40232	29.33	ppb	92
62) 2-Chloroethylvinyl Ether	8.108	63	70451	20.77	ppb	97
63) cis-1,3-Dichloropropene	8.242	75	239945	19.43	ppb	98
64) 4-Methyl-2-pentanone	8.444	43	88729	21.17	ppb	92
66) Toluene	8.602	91	726604	20.61	ppb	96
67) trans-1,3-Dichloropropene	8.864	75	212308	20.09	ppb	94
68) Ethyl Methacrylate	8.998	69	155297	20.25	ppb	95
69) 1,1,2-Trichloroethane	9.047	97	123031	21.64	ppb	93
72) Tetrachloroethene	9.181	164	141882	20.33	ppb	# 88
73) 2-Hexanone	9.328	43	60705	19.70	ppb	87
74) 1,3-Dichloropropane	9.212	76	220080	22.02	ppb	95
75) Dibromochloromethane	9.437	129	142203	18.90	ppb	96
76) N-Butyl Acetate	9.480	43	145095	17.93	ppb	93
77) 1,2-Dibromoethane	9.529	107	120322	20.39	ppb	92
78) Chlorobenzene	10.016	112	492130	19.87	ppb	99
79) 3-CBTF	10.029	180	250542	21.45	ppb	97
80) 4-CBTF	10.084	180	225570	21.32	ppb	98
81) 1,1,1,2-Tetrachloroethane	10.102	131	165400	19.85	ppb	97
82) Ethylbenzene	10.132	106	238795	17.81	ppb	92
83) (m+p)Xylene	10.242	106	651296	39.85	ppb	94
84) o-Xylene	10.596	106	317002	20.03	ppb	99
85) Styrene	10.608	104	537142	19.77	ppb	98
87) Bromoform	10.760	173	79140	17.44	ppb	97
88) 2-CBTF	10.839	180	256216	19.93	ppb	94
89) Isopropylbenzene	10.931	105	757409	18.41	ppb	99
90) Cyclohexanone	10.986	55	259706	1064.97	ppb	83
91) trans-1,4-Dichloro-2-B...	11.230	53	37701	17.04	ppb	89
92) 1,1,2,2-Tetrachloroethane	11.181	83	145273	19.40	ppb	99
93) Bromobenzene	11.175	156	200010	19.50	ppb	96
94) 1,2,3-Trichloropropane	11.211	110	44304	19.45	ppb	# 81

Data Path : I:\ACQUDATA\msvoa12\Data\062915\

Data File : MM4345.D

Acq On : 29 Jun 2015 11:03 am

Operator : K.Ruest

Sample : LCS

Inst : MSVOA-12

Misc :

ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 29 11:23:45 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

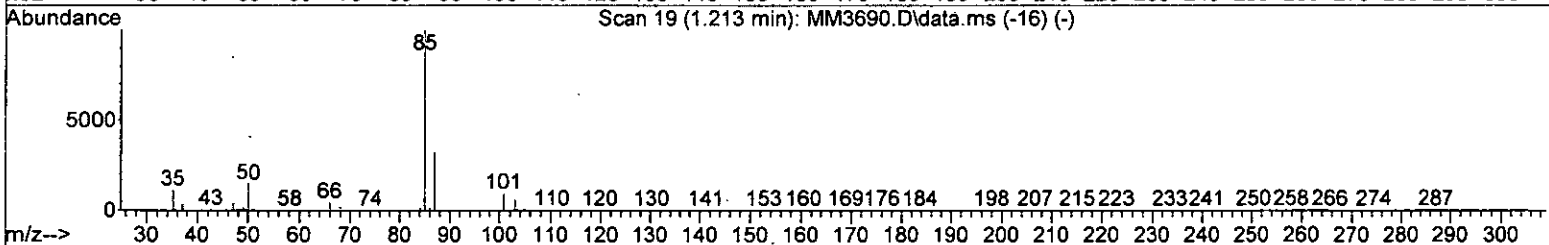
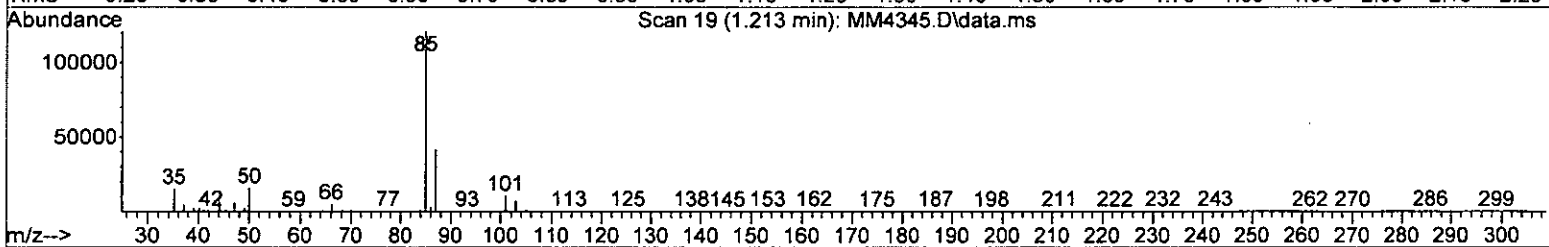
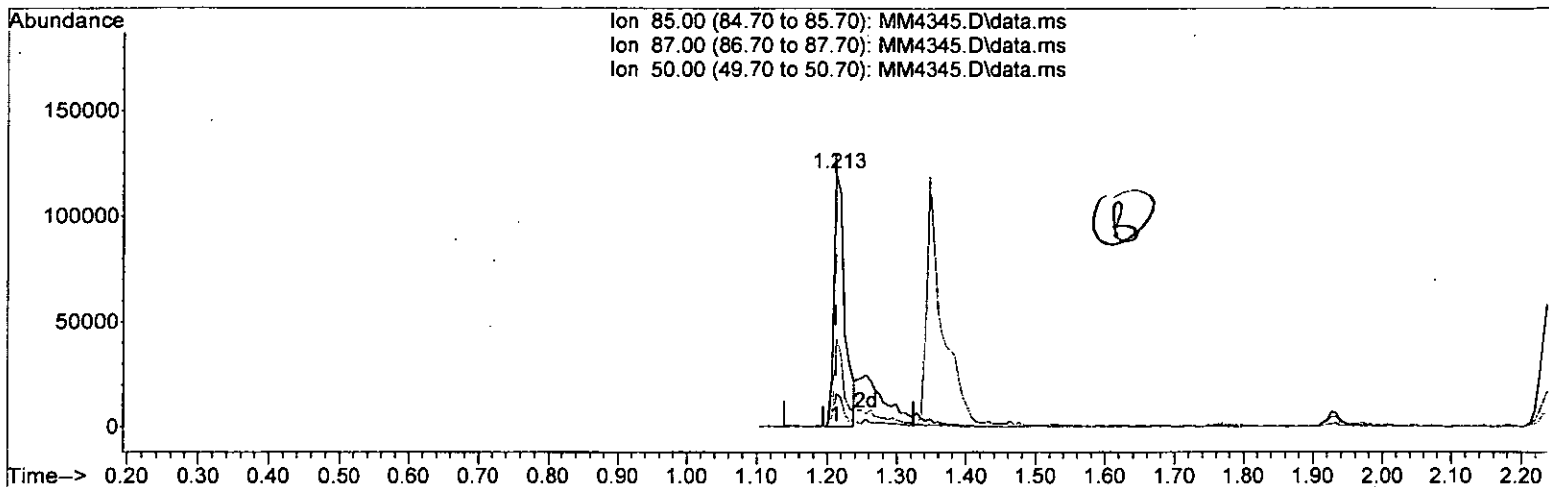
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) n-Propylbenzene	11.278	91	914831	19.76	ppb	99
96) 2-Chlorotoluene	11.345	91	549625	19.26	ppb	99
97) 3-Chlorotoluene	11.394	91	602885	19.94	ppb	97
98) 4-Chlorotoluene	11.437	91	673505	19.09	ppb	100
99) 1,3,5-Trimethylbenzene	11.431	105	671438	19.05	ppb	98
100) tert-Butylbenzene	11.705	119	541537	19.07	ppb	100
101) 1,2,4-Trimethylbenzene	11.742	105	690208	19.40	ppb	98
102) 3,4-DCBTF	11.803	214	177376	21.08	ppb	89
103) sec-Butylbenzene	11.882	105	765900	19.67	ppb	97
104) p-Isopropyltoluene	12.004	119	679107	20.51	ppb	99
105) 1,3-Dclbenz	11.961	146	395327	19.83	ppb	99
106) 1,4-Dclbenz	12.040	146	403212	19.41	ppb	98
107) 2,4-DCBTF	12.089	214	156093	21.02	ppb	93
108) 2,5-DCBTF	12.132	214	174118	20.85	ppb	95
109) n-Butylbenzene	12.333	91	596148	20.06	ppb	98
110) 1,2-Dclbenz	12.339	146	374459	20.09	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.961	157	31418	20.73	ppb	87
112) Trielution Dichlorotol...	13.083	125	999093	63.65	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	267238	22.86	ppb	96
114) Coelution Dichlorotoluene	13.406	125	727735	43.28	ppb	97
115) 1,2,4-Tcbenzene	13.613	180	236176	22.06	ppb	99
116) Hexachlorobt	13.747	225	90765	22.02	ppb	91
117) Naphthalen	13.802	128	532507	23.70	ppb	98
118) 1,2,3-Tclbenzene	13.991	180	219629	25.09	ppb	93
119) 2,4,5-Trichlorotoluene	14.577	159	176624	25.24	ppb	93
120) 2,3,6-Trichlorotoluene	14.656	159	165060	27.43	ppb	96

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

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4345.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 16.15 ppb

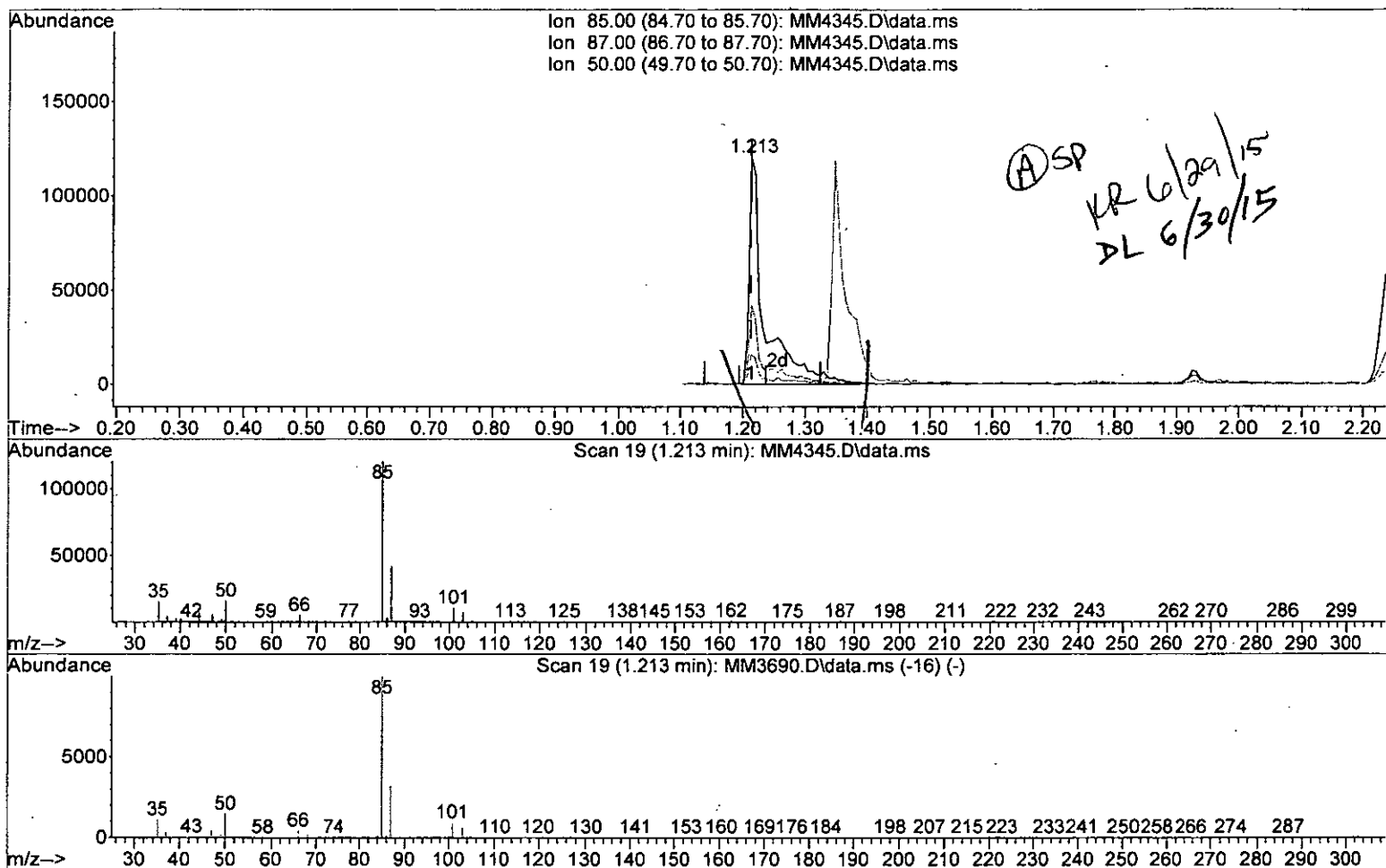
response 127731

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.46
50.00	14.50	13.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4345.D
Acq On : 29 Jun 2015 11:03 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4345.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 26.33 ppb m

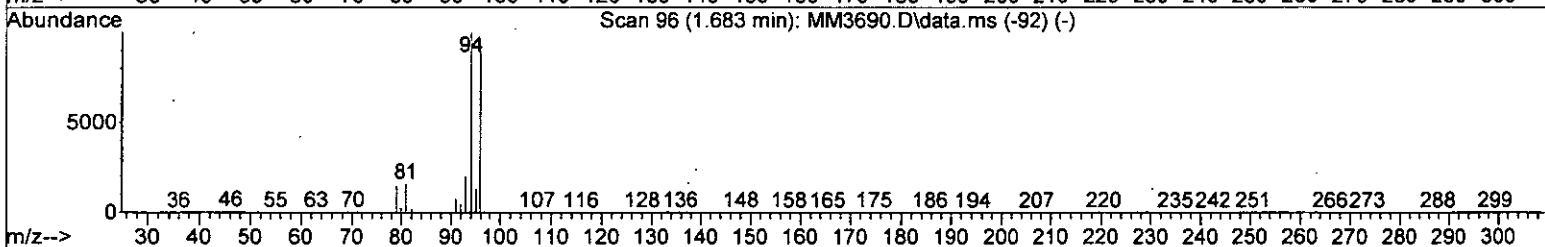
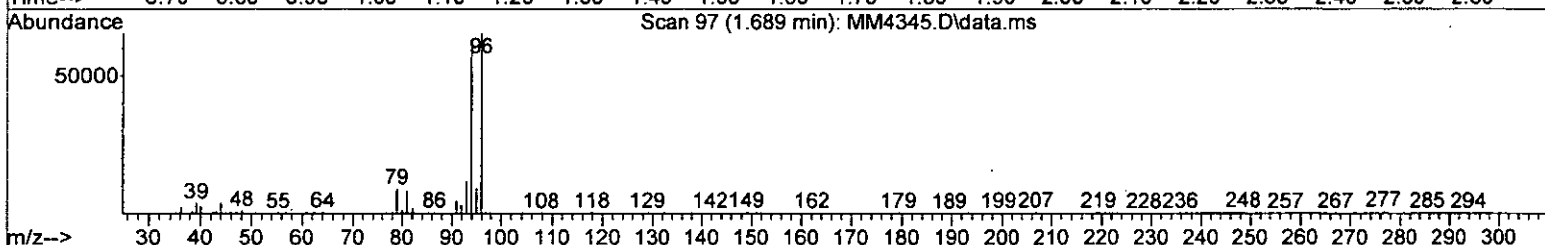
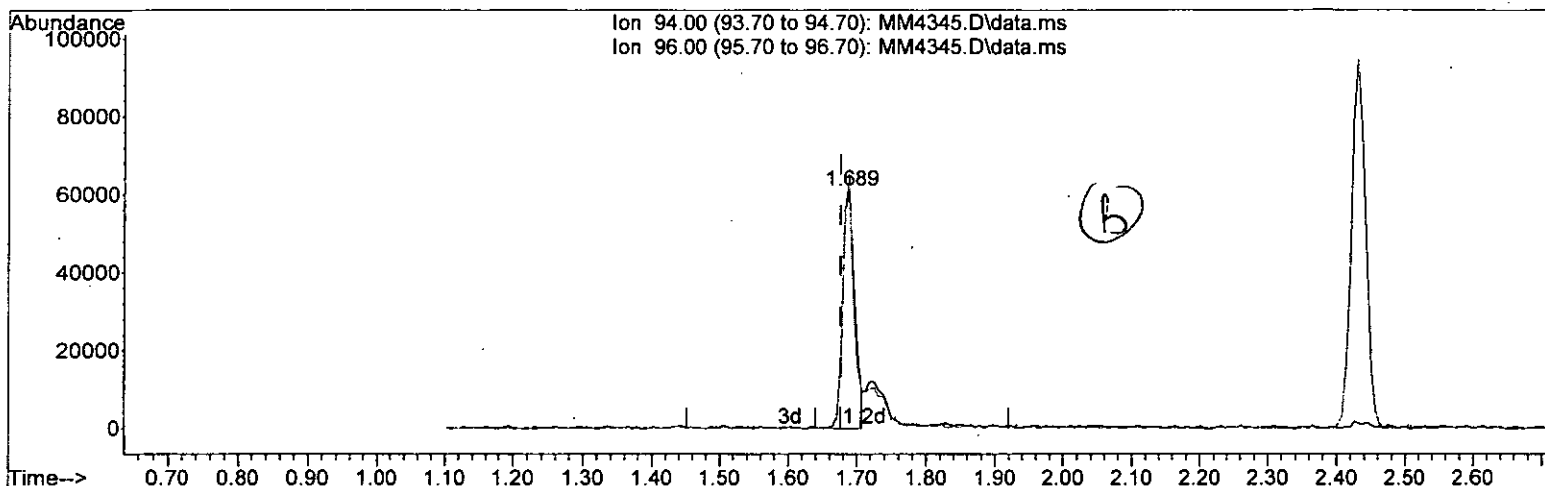
response 208213

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	34.46
50.00	14.50	13.11
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4345.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 13.66 ppb

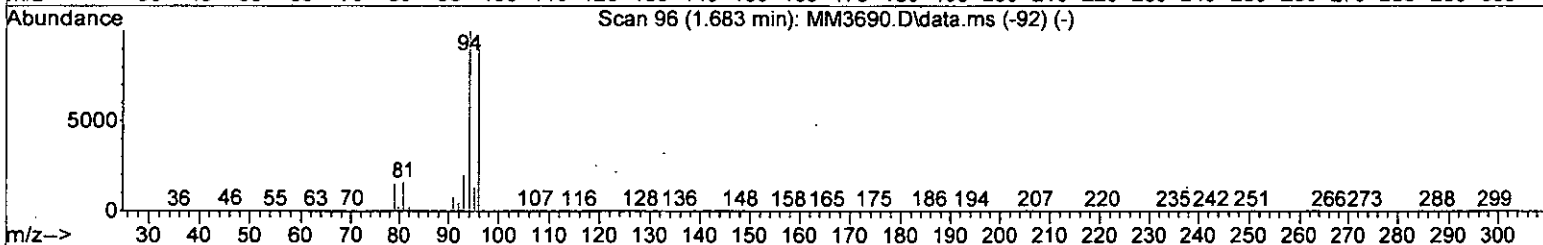
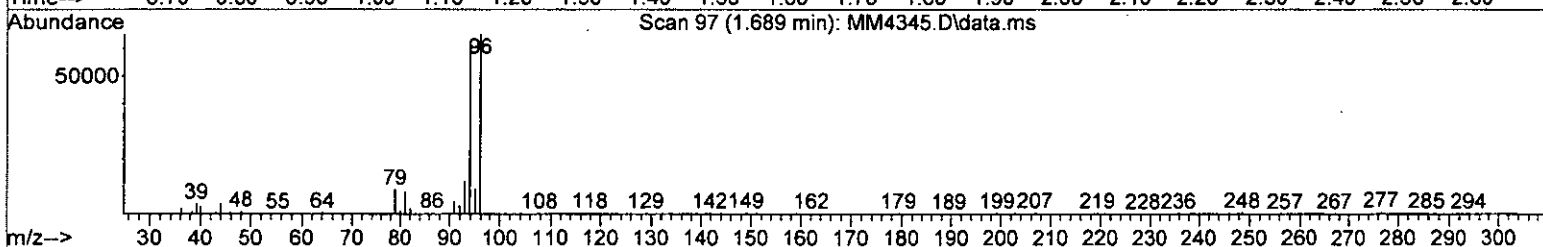
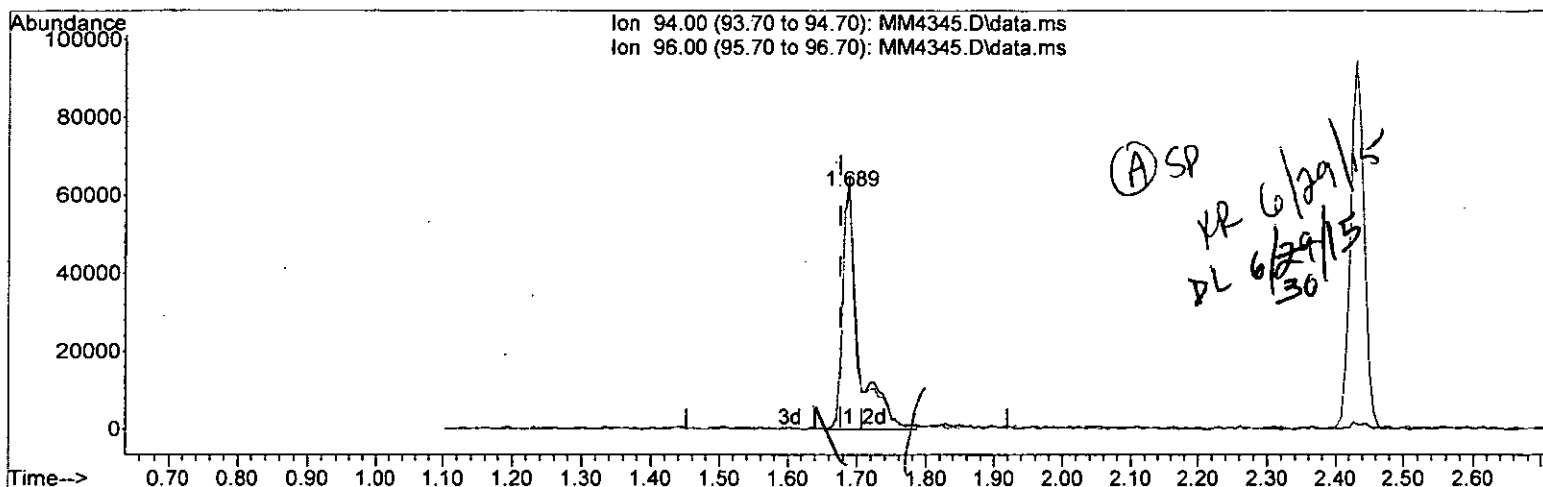
response 75334

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	106.59
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4345.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 18.26 ppb m

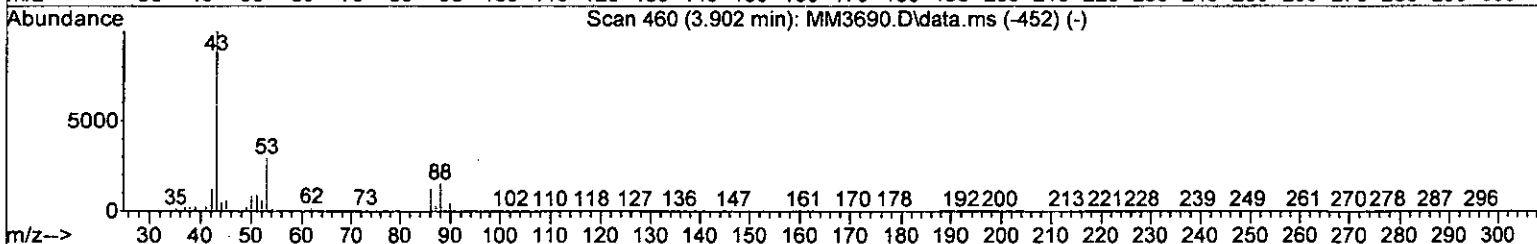
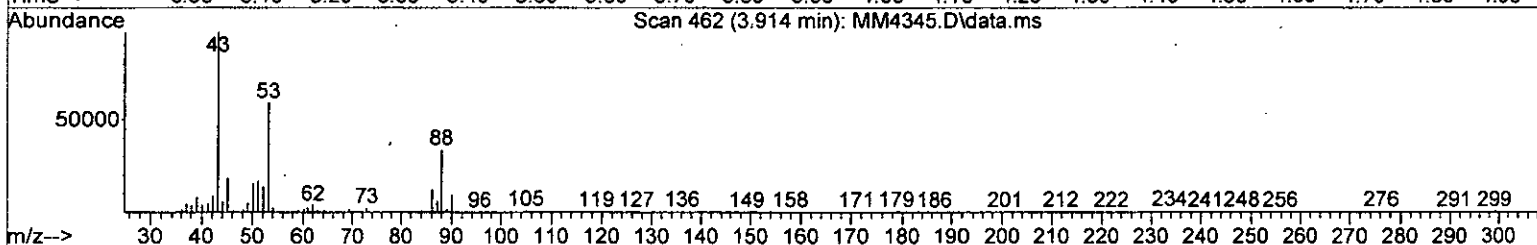
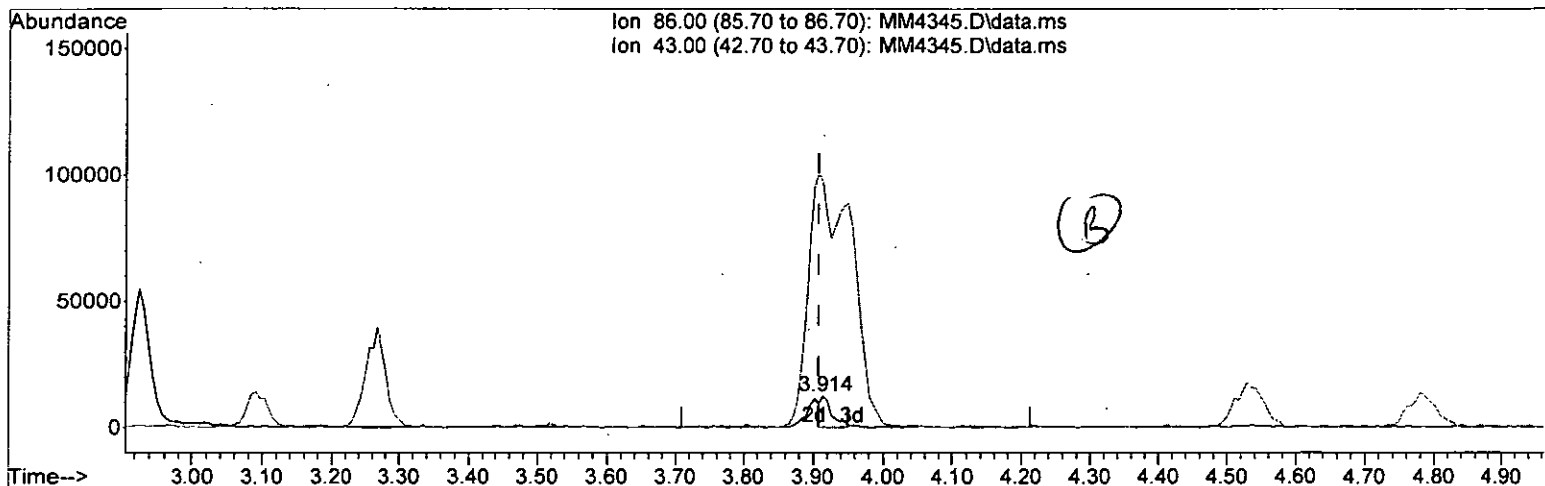
response 100677

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	106.59
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4345.D\data.ms

(29) Vinyl Acetate

3.914min (+0.006) 8.98 ppb

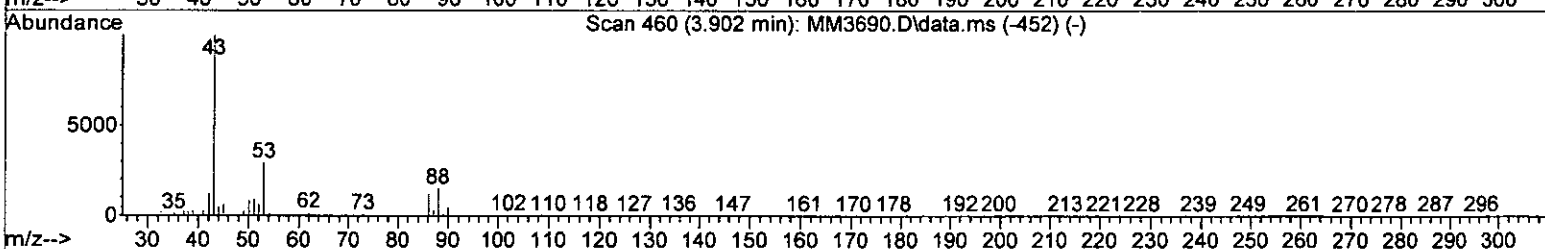
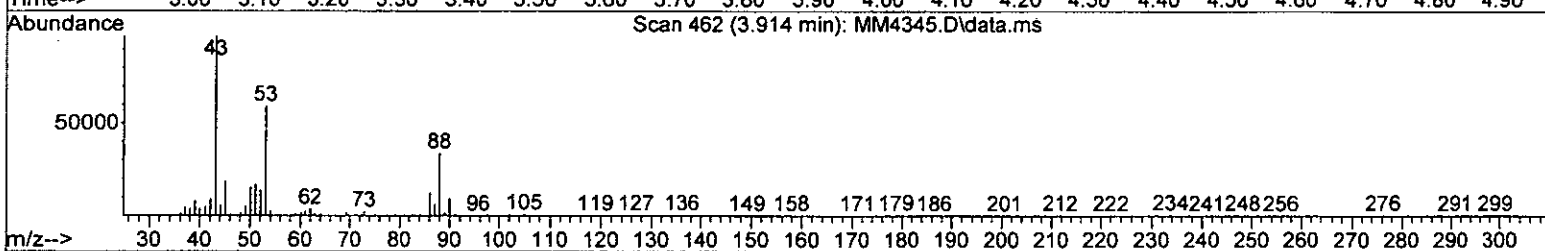
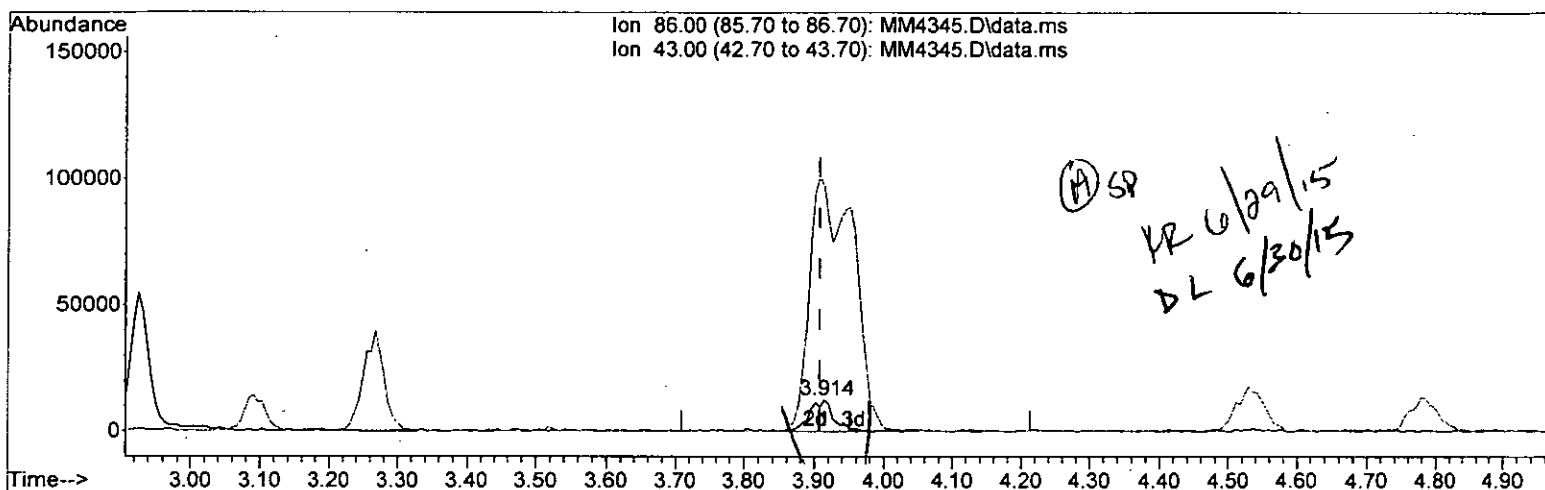
response 13547

Ion	Exp%	Act%
86.00	100	100
43.00	799.60	786.31
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4345.D
Acq On : 29 Jun 2015 11:03 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4345.D\data.ms

(29) Vinyl Acetate

3.914min (+0.006) 19.50 ppb m

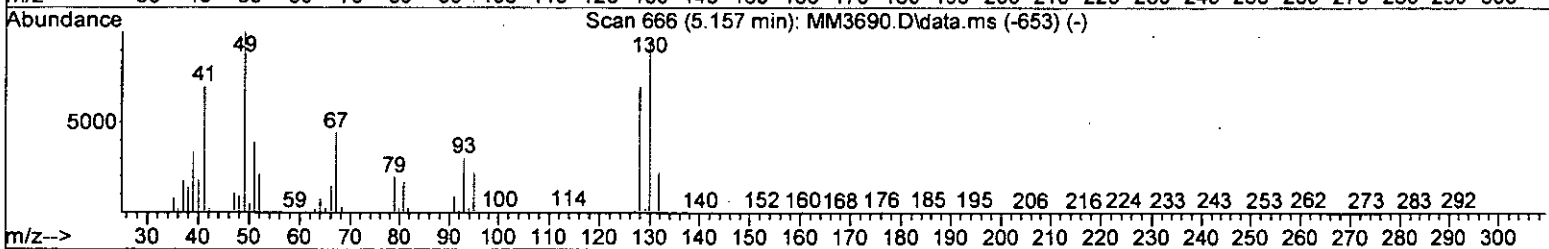
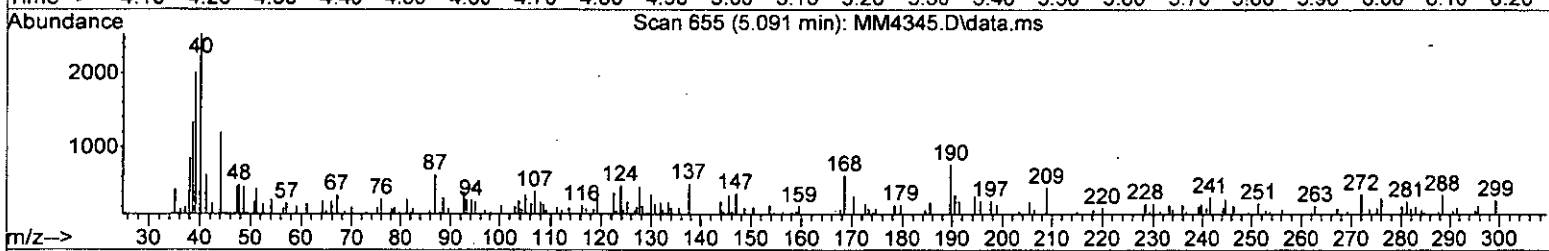
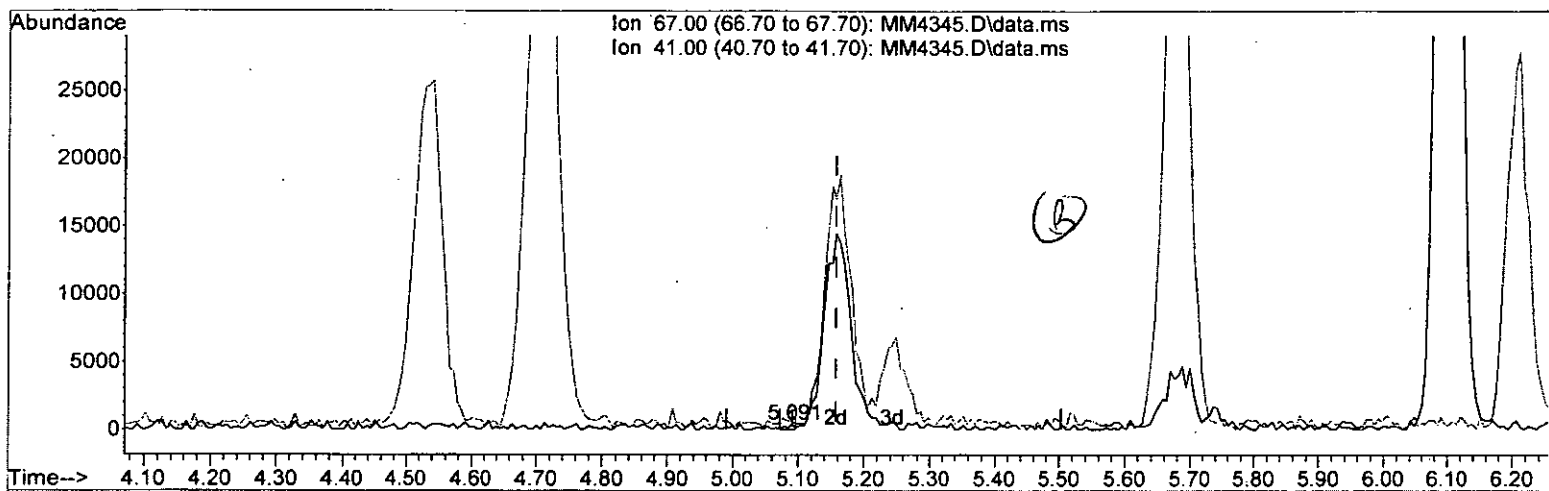
response 29426

Ion	Exp%	Act%
86.00	100	100
43.00	799.60	786.31
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
Data File : MM4345.D
Acq On : 29 Jun 2015 11:03 am
Operator : K.Ruest
Sample : LCS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4345.D\data.ms

(38) Methacrylonitrile

5.091min (-0.067) 0.15 ppb

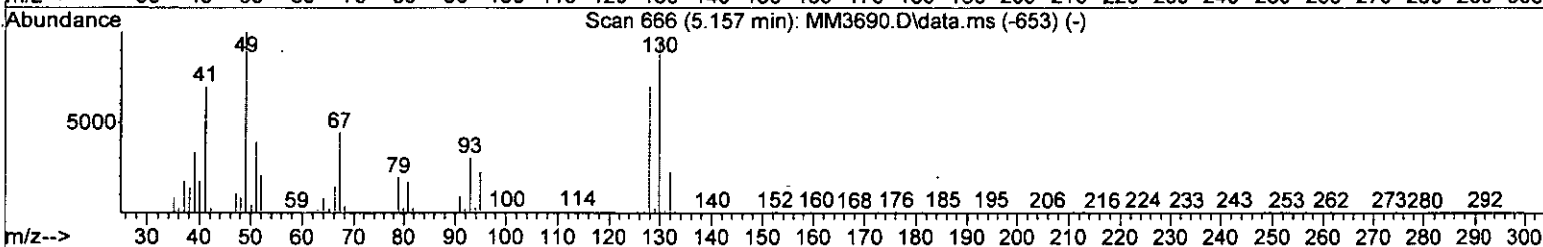
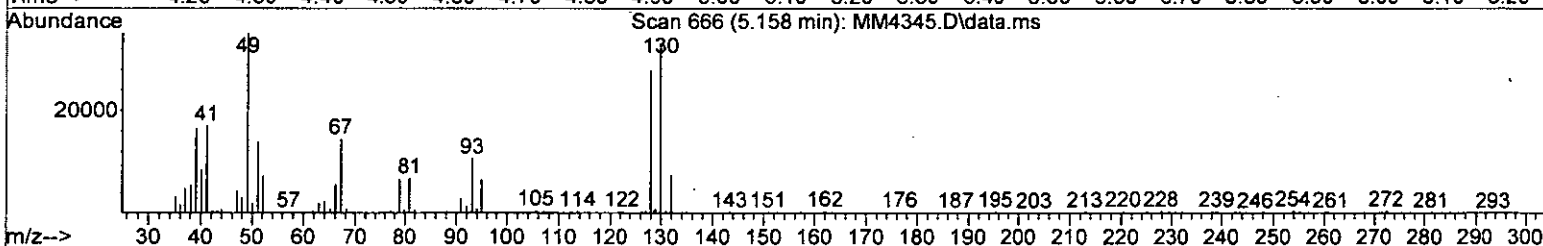
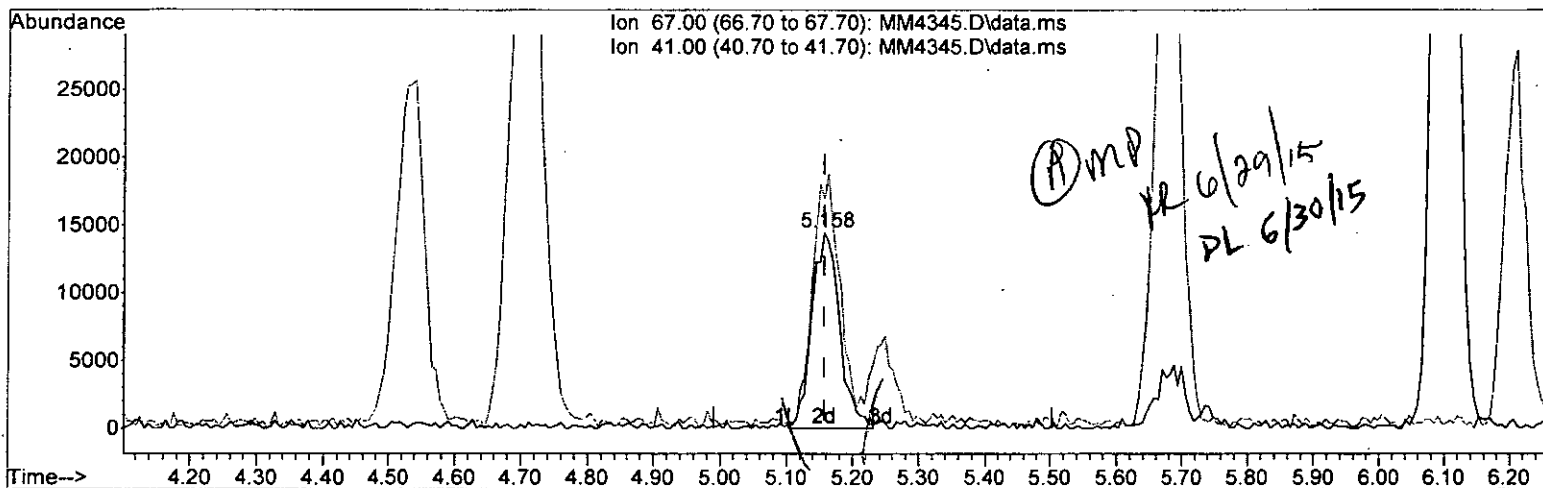
response 299

Ion	Exp%	Act%
67.00	100	100
41.00	159.00	175.07
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062915\
 Data File : MM4345.D
 Acq On : 29 Jun 2015 11:03 am
 Operator : K.Ruest
 Sample : LCS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 29 11:19:17 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4345.D\data.ms

(38) Methacrylonitrile

5.158min (0.000) 21.41 ppb m

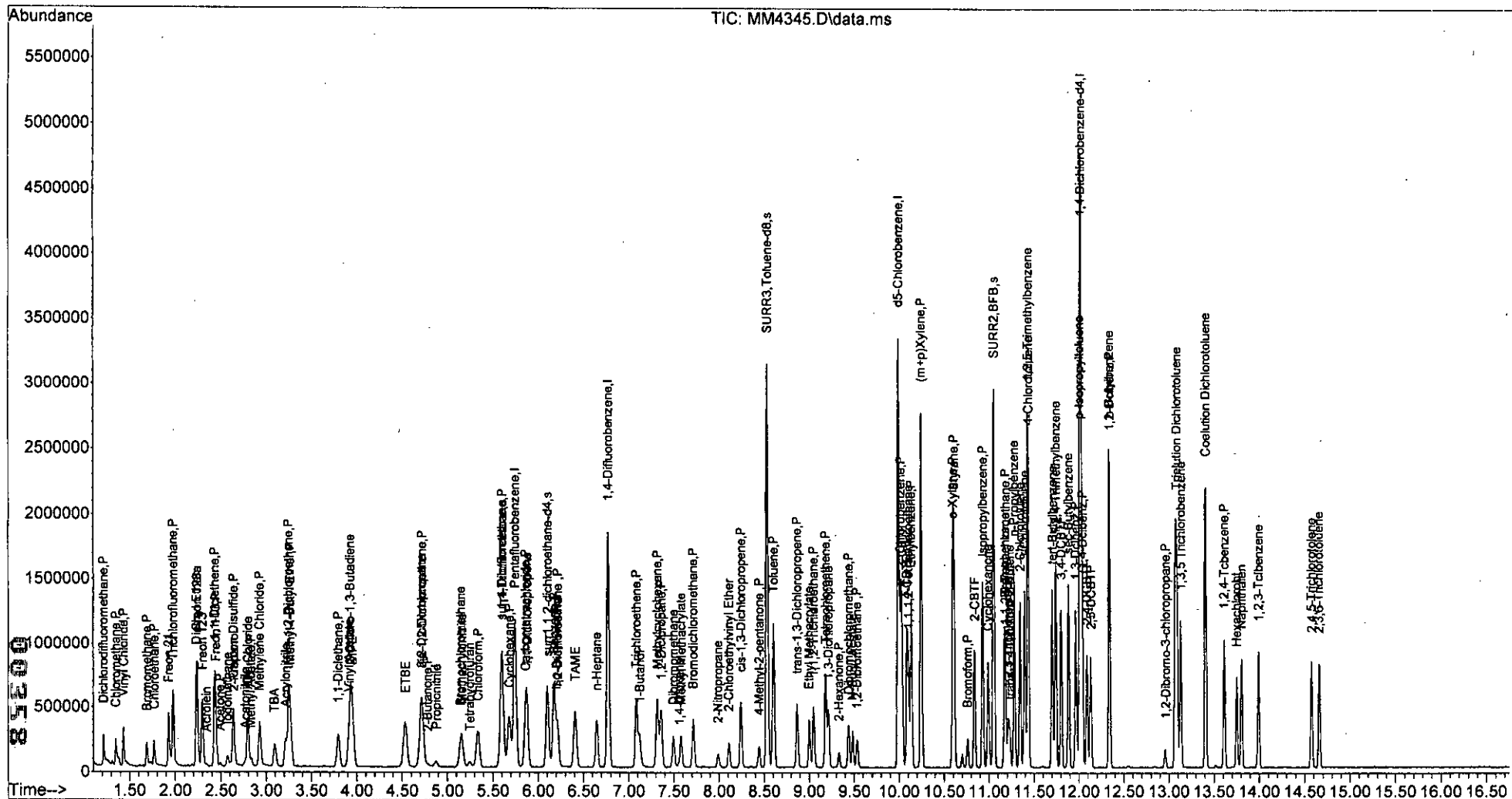
response 41656

Ion	Exp%	Act%
67.00	100	100
41.00	159.00	117.33#
0.00	0.00	0.00
0.00	0.00	0.00

```
Data Path : I:\ACQUDATA\msvoal2\Data\062915\  
Data File : MM4345.D  
Acq On    : 29 Jun 2015   11:03 am  
Operator  : K.Ruest  
Sample    : LCS  
Misc      :  
ALS Vial  : 5      Sample Multiplier: 1
```

Inst : MSVOA-12

Quant Time: Jun 29 11:23:45 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1150
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 19:36

Sample Name: BAT-EW-6-150619
 Lab Code: RQ1507088-05
 Run Type: Matrix Spike

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4336.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	57.1	1.0	0.21	
75-01-4	Vinyl Chloride	55.0	1.0	0.32	
75-00-3	Chloroethane	44.2	1.0	0.24	
74-83-9	Bromomethane	27.8	1.0	0.29	
75-35-4	1,1-Dichloroethene	49.0	1.0	0.57	
67-64-1	Acetone	50.1	5.0	1.3	
75-15-0	Carbon Disulfide	28.4	1.0	0.22	
75-09-2	Methylene Chloride	48.2	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	51.5	1.0	0.33	
75-34-3	1,1-Dichloroethane	49.7	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	67.5	1.0	0.30	
78-93-3	2-Butanone (MEK)	57.6	5.0	0.81	
67-66-3	Chloroform	50.4	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	48.6	1.0	0.36	
56-23-5	Carbon Tetrachloride	42.2	1.0	0.45	
71-43-2	Benzene	52.6	1.0	0.20	
107-06-2	1,2-Dichloroethane	48.9	1.0	0.36	
79-01-6	Trichloroethene	53.2	1.0	0.22	
78-87-5	1,2-Dichloropropane	52.0	1.0	0.20	
75-27-4	Bromodichloromethane	45.4	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	36.8	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	56.0	5.0	0.67	
108-88-3	Toluene	51.8	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	38.5	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	53.7	1.0	0.34	
127-18-4	Tetrachloroethene	48.2	1.0	0.30	
591-78-6	2-Hexanone	51.7	5.0	1.7	
124-48-1	Dibromochloromethane	41.0	1.0	0.31	
108-90-7	Chlorobenzene	49.3	1.0	0.29	
100-41-4	Ethylbenzene	45.4	1.0	0.20	
179601-23-1	m,p-Xylenes	98.7	2.0	0.33	
95-47-6	o-Xylene	49.6	1.0	0.20	
100-42-5	Styrene	40.4	1.0	0.20	
75-25-2	Bromoform	34.8	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	50.2	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 11:50
Date Received: 6/20/15
Date Analyzed: 6/28/15 19:36

Sample Name: BAT-EW-6-150619
Lab Code: RQ1507088-05
Run Type: Matrix Spike

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4336.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	114	85-122	6/28/15 19:36			
Toluene-d8	107	87-121	6/28/15 19:36			
Dibromofluoromethane	108	89-119	6/28/15 19:36			

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4336.D

Acq On : 28 Jun 2015 7:36 pm

Operator : K.Ruest

Sample : R1504946-005MS|1.0 *PQ 1507089-05* Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 19:53:07 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	924684	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1526381	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1481944	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	885696	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4,Dibrflmethane	5.603	113	447277	54.15	ppb	0.00
Spiked Amount	50.000	Range	89 - 119	Recovery	=	108.30%
48) surr1,1,2-dichloroetha...	6.102	65	476536	54.01	ppb	0.00
Spiked Amount	50.000	Range	78 - 122	Recovery	=	108.02%
65) SURR3,Toluene-d8	8.535	98	1932163	53.56	ppb	0.00
Spiked Amount	50.000	Range	87 - 121	Recovery	=	107.12%
70) SURR2,BFB	11.053	95	782456	57.09	ppb	0.00
Spiked Amount	50.000	Range	85 - 122	Recovery	=	114.18%
Target Compounds						
2) Dichlorodifluoromethane	1.213	85	~~411194~~ <i>476699</i>	~~52.12~~ <i>60.42</i>	ppb	96
3) Chloromethane	1.347	50	437895	57.07	ppb	99
4) Vinyl Chloride	1.433	62	532776	54.98	ppb	97
5) Bromomethane	1.689	94	~~104149~~ <i>9453</i>	~~18.93~~ <i>27.92</i>	ppb	95
6) Chloroethane	1.768	64	284369	44.23	ppb	97
7) Freon 21	1.926	67	899012	56.00	ppb	98
8) Trichlorofluoromethane	1.981	101	656993	45.49	ppb	98
9) Diethyl Ether	2.231	59	328501	51.44	ppb	97
10) Freon 123a	2.237	67	530689	51.79	ppb	98
11) Freon 123	2.298	83	597408	50.18	ppb	100
12) Acrolein	2.341	56	18828	28.28	ppb	81
13) 1,1-Dicethene	2.432	96	333430	49.03	ppb	99
14) Freon 113	2.439	101	335708	49.87	ppb	89
15) Acetone	2.487	43	64909	50.08	ppb	92
16) 2-Propanol	2.652	45	251306	976.23	ppb	97
17) Iodomethane	2.573	142	207884	25.57	ppb	98
18) Carbon Disulfide	2.640	76	617822	28.35	ppb	99
19) Acetonitrile	2.768	40	43729	262.84	ppb	93
20) Allyl Chloride	2.798	76	104811	25.61	ppb	91
21) Methyl Acetate	2.835	43	131969	46.76	ppb	97
22) Methylene Chloride	2.926	84	348322	48.20	ppb	97
23) TBA	3.097	59	517639	1127.38	ppb	97
24) Acrylonitrile	3.213	53	400274	271.70	ppb	97
25) Methyl-t-Butyl Ether	3.268	73	942964	53.37	ppb	97
26) trans-1,2-Dichloroethene	3.249	96	391206	51.48	ppb	96
28) 1,1-Dicethane	3.792	63	623435	49.66	ppb	96
29) Vinyl Acetate	3.908	86	59285	39.38	ppb	# 89
30) DIPE	3.950	45	1011744	46.36	ppb	98
31) 2-Chloro-1,3-Butadiene	3.932	53	533558	39.05	ppb	97
32) ETBE	4.536	59	974370	44.79	ppb	100
33) 2,2-Dichloropropane	4.713	77	459463	38.42	ppb	96
34) cis-1,2-Dichloroethene	4.719	96	547042	67.53	ppb	89
35) 2-Butanone	4.780	43	98168	57.63	ppb	93
36) Propionitrile	4.871	54	155277	298.53	ppb	92

KR
6/29/15

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4336.D

Acq On : 28 Jun 2015 7:36 pm

Operator : K.Ruest

Sample : R1504946-005MS|1.0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 19:53:07 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.151	130	228705	51.07	ppb	93
38) Methacrylonitrile	5.164	67	102039	52.56	ppb #	74
39) Tetrahydrofuran	5.243	42	64104	55.33	ppb	96
40) Chloroform	5.334	83	667073	50.42	ppb	98
41) 1,1,1-Trichloroethane	5.596	97	617717	48.55	ppb	96
42) TAME	6.407	73	939803	49.54	ppb	96
44) Cyclohexane	5.676	41	325243	46.91	ppb	93
46) Carbontetrachloride	5.865	121	140049	42.16	ppb	91
47) 1,1-Dichloropropene	5.877	75	493749	47.01	ppb	98
49) Benzene	6.176	78	1589780	52.56	ppb	100
50) 1,2-Dichloroethane	6.212	62	474241	48.90	ppb	99
51) Iso-Butyl Alcohol	6.206	43	206058	1025.49	ppb	100
52) n-Heptane	6.645	43	272413	42.28	ppb	97
53) 1-Butanol	7.121	56	345788	2709.85	ppb	99
54) Trichloroethene	7.084	130	434282	53.18	ppb	99
55) Methylcyclohexane	7.316	55	377335	49.40	ppb	97
56) 1,2-Dichloropropane	7.358	63	375983	51.96	ppb	96
57) Dibromomethane	7.492	93	205069	52.61	ppb	96
58) 1,4-Dioxane	7.547	88	~~4758549~~ 1007.08	142.79	ppb	86
59) Methyl Methacrylate	7.578	69	199219	56.44	ppb	92
60) Bromodichloromethane	7.718	83	473511	45.35	ppb	98
61) 2-Nitropropane	7.986	41	103234	76.46	ppb	91
63) cis-1,3-Dichloropropene	8.242	75	447711	36.83	ppb	97
64) 4-Methyl-2-pentanone	8.444	43	230787	55.95	ppb	94
66) Toluene	8.602	91	1796188	51.76	ppb	99
67) trans-1,3-Dichloropropene	8.864	75	400447	38.49	ppb	97
68) Ethyl Methacrylate	8.998	69	404960	53.64	ppb	90
69) 1,1,2-Trichloroethane	9.047	97	300767	53.74	ppb	94
72) Tetrachloroethene	9.181	164	327494	48.18	ppb	97
73) 2-Hexanone	9.334	43	155227	51.74	ppb	96
74) 1,3-Dichloropropane	9.212	76	528667	54.33	ppb	96
75) Dibromochloromethane	9.437	129	300239	40.98	ppb	99
76) N-Butyl Acetate	9.480	43	344176	43.68	ppb	97
77) 1,2-Dibromoethane	9.535	107	302135	52.58	ppb	99
78) Chlorobenzene	10.016	112	1189377	49.30	ppb	99
79) 3-CBTF	10.035	180	564267	49.61	ppb	97
80) 4-CBTF	10.083	180	507719	49.28	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.102	131	400152	49.31	ppb	97
82) Ethylbenzene	10.132	106	592214	45.35	ppb	96
83) (m+p)Xylene	10.242	106	1571624	98.74	ppb	99
84) o-Xylene	10.596	106	764339	49.59	ppb	97
85) Styrene	10.608	104	1069923	40.44	ppb	98
87) Bromoform	10.760	173	157903	34.82	ppb	97
88) 2-CBTF	10.839	180	568946	44.28	ppb	94
89) Isopropylbenzene	10.931	105	1906275	46.36	ppb	98
90) Cyclohexanone	10.992	55	173374	711.34	ppb	88
91) trans-1,4-Dichloro-2-B...	11.230	53	47124	21.30	ppb	94
92) 1,1,2,2-Tetrachloroethane	11.181	83	375630	50.19	ppb	98
93) Bromobenzene	11.175	156	480280	46.85	ppb	95
94) 1,2,3-Trichloropropane	11.211	110	112145	49.25	ppb #	89
95) n-Propylbenzene	11.278	91	2183964	47.19	ppb	99

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4336.D

Acq On : 28 Jun 2015 7:36 pm

Operator : K.Ruest

Sample : R1504946-005MS|1.0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 28 19:53:07 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

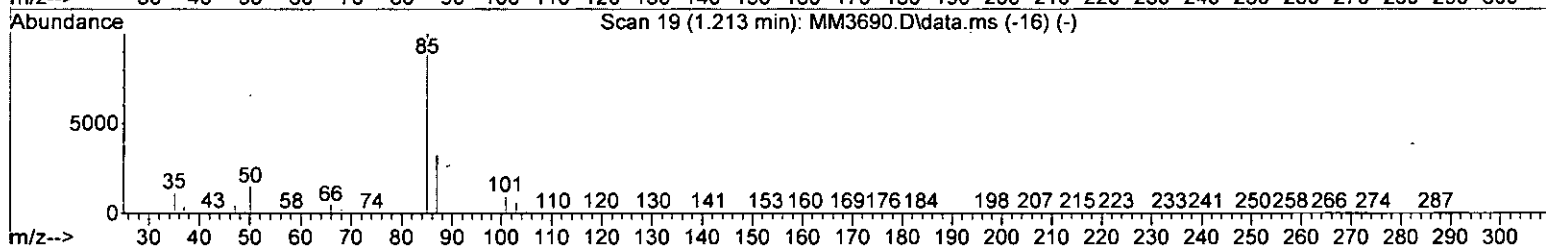
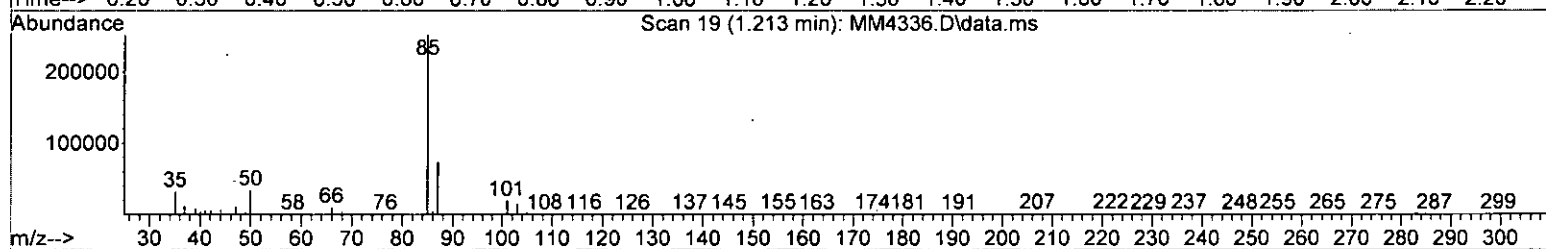
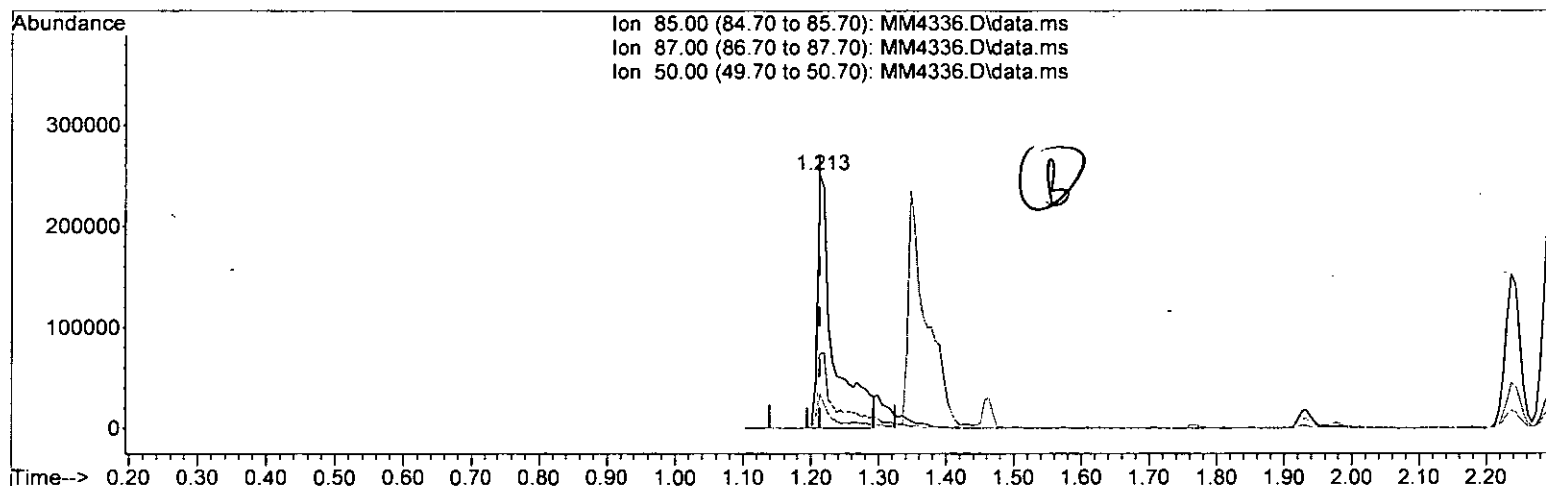
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 2-Chlorotoluene	11.345	91	1360991	47.72	ppb	100
97) 3-Chlorotoluene	11.394	91	1391193	46.04	ppb	98
98) 4-Chlorotoluene	11.437	91	1666217	47.26	ppb	97
99) 1,3,5-Trimethylbenzene	11.431	105	1536708	43.62	ppb	99
100) tert-Butylbenzene	11.699	119	1320792	46.53	ppb	97
101) 1,2,4-Trimethylbenzene	11.742	105	1504905	42.31	ppb	99
102) 3,4-DCBTF	11.803	214	365390	43.44	ppb	95
103) sec-Butylbenzene	11.882	105	1802411	46.32	ppb	98
104) p-Isopropyltoluene	12.004	119	1590899	48.06	ppb	99
105) 1,3-Dclbenz	11.967	146	951131	47.73	ppb	99
106) 1,4-Dclbenz	12.040	146	980990	47.26	ppb	97
107) 2,4-DCBTF	12.089	214	344355	46.39	ppb	98
108) 2,5-DCBTF	12.132	214	390046	46.73	ppb	99
109) n-Butylbenzene	12.333	91	1366261	46.00	ppb	99
110) 1,2-Dclbenz	12.339	146	911088	48.91	ppb	97
111) 1,2-Dibromo-3-chloropr...	12.955	157	75078	49.56	ppb	92
112) Trielution Dichlorotol...	13.077	125	2154924	137.36	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	561173	48.03	ppb	96
114) Coelution Dichlorotoluene	13.406	125	1599616	95.18	ppb	98
115) 1,2,4-Tcbenzene	13.613	180	521627	48.75	ppb	97
116) Hexachlorobt	13.753	225	171986	41.75	ppb	97
117) Naphthalen	13.802	128	1194395	53.19	ppb	98
118) 1,2,3-Tclbenzene	13.991	180	454035	51.90	ppb	97
119) 2,4,5-Trichlorotoluene	14.576	159	291467	41.67	ppb	95
120) 2,3,6-Trichlorotoluene	14.662	159	266694	44.34	ppb	97

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

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4336.D
Acq On : 28 Jun 2015 7:36 pm
Operator : K.Ruest
Sample : R1504946-005MS|1.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4336.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 52.12 ppb

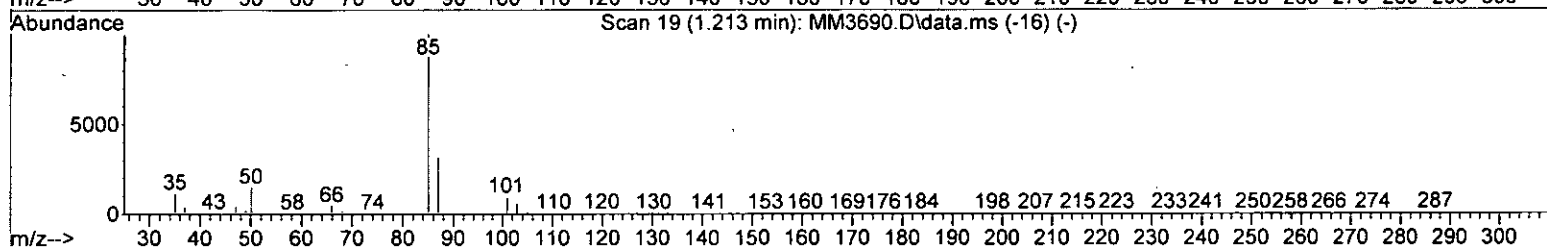
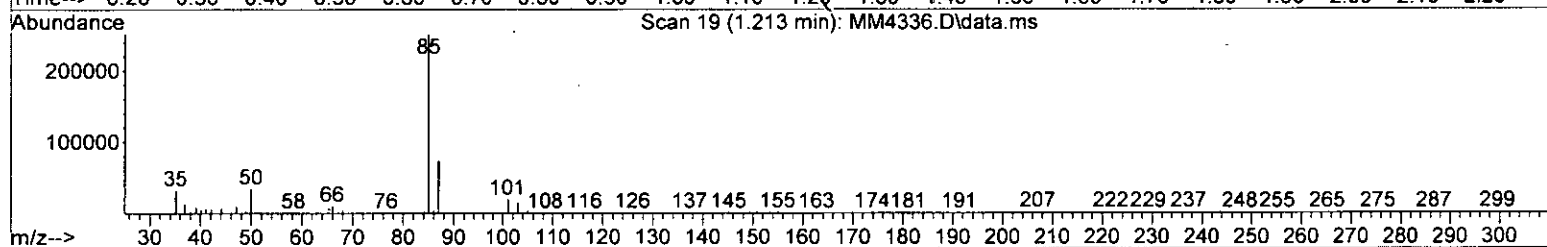
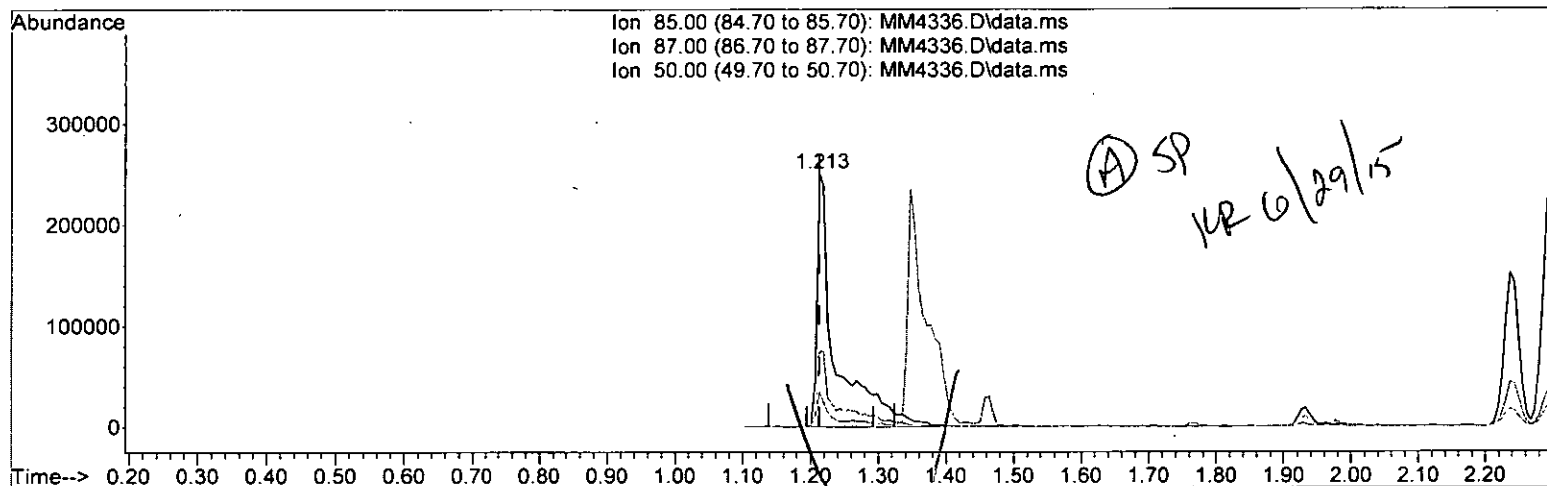
response 411194

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	29.31
50.00	14.50	13.56
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4336.D
Acq On : 28 Jun 2015 7:36 pm
Operator : K.Ruest
Sample : R1504946-005MS|1.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4336.D\data.ms

(2) Dichlorodifluoromethane (P)

1.213min (-0.000) 60.42 ppb m

response 476699

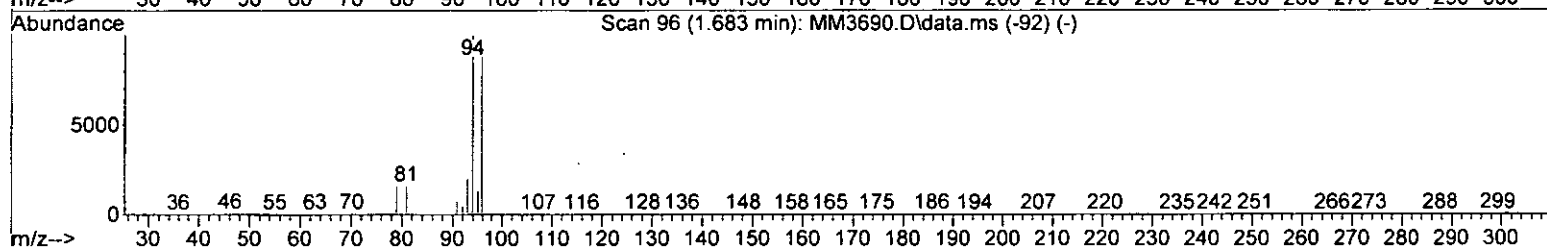
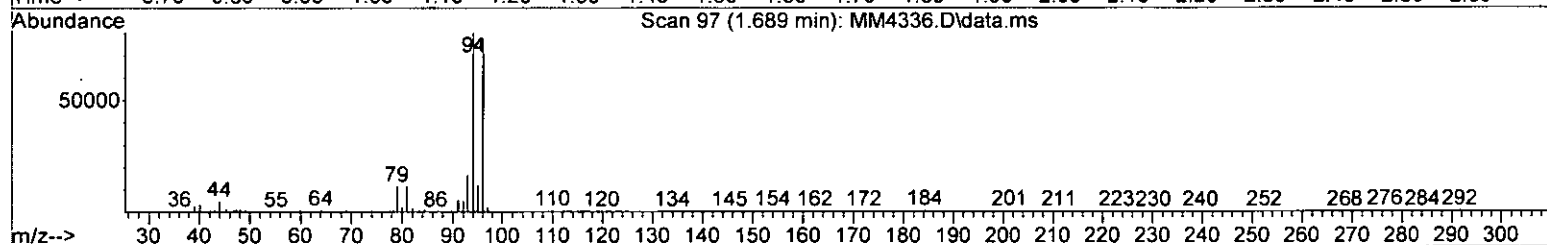
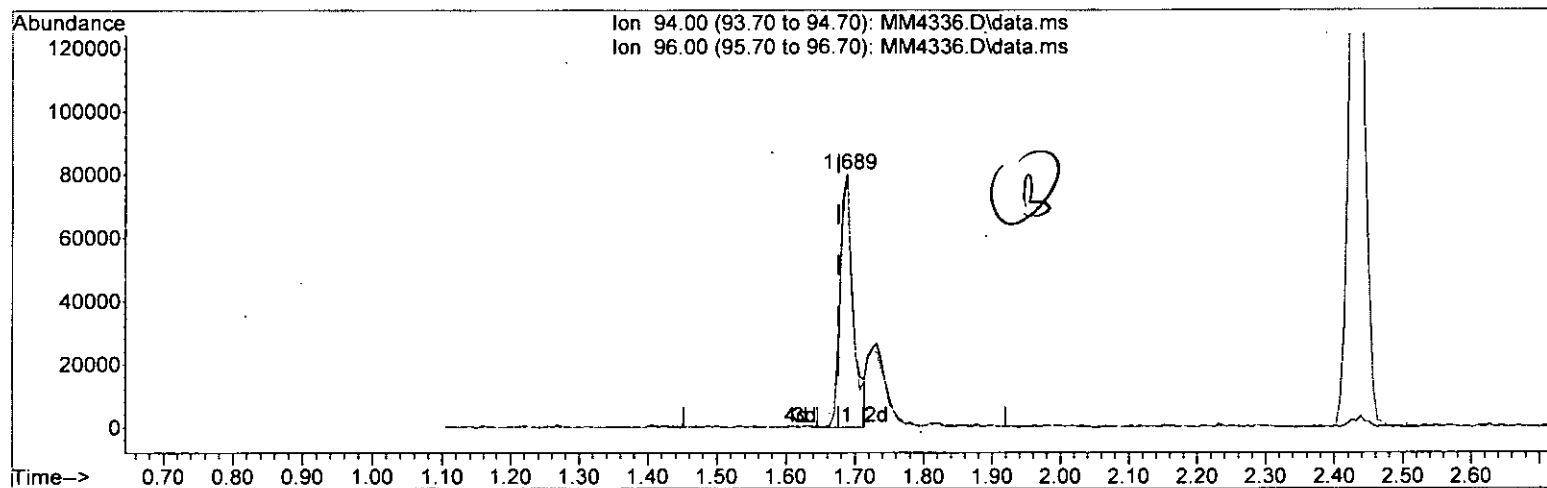
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	29.31
50.00	14.50	13.56
0.00	0.00	0.00

LW
G/L

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4336.D
Acq On : 28 Jun 2015 7:36 pm
Operator : K.Ruest
Sample : R1504946-005MS|1.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4336.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 18.93 ppb

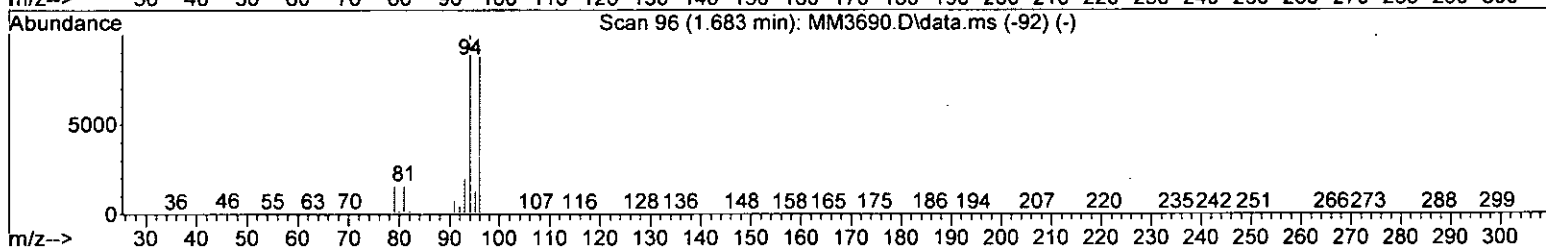
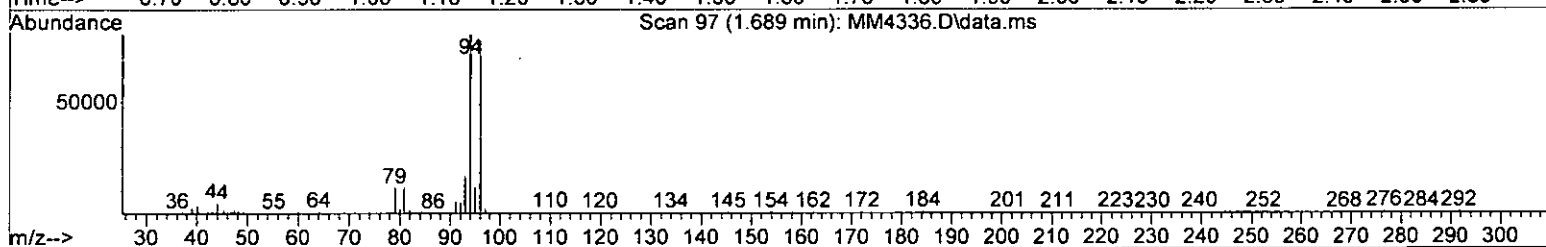
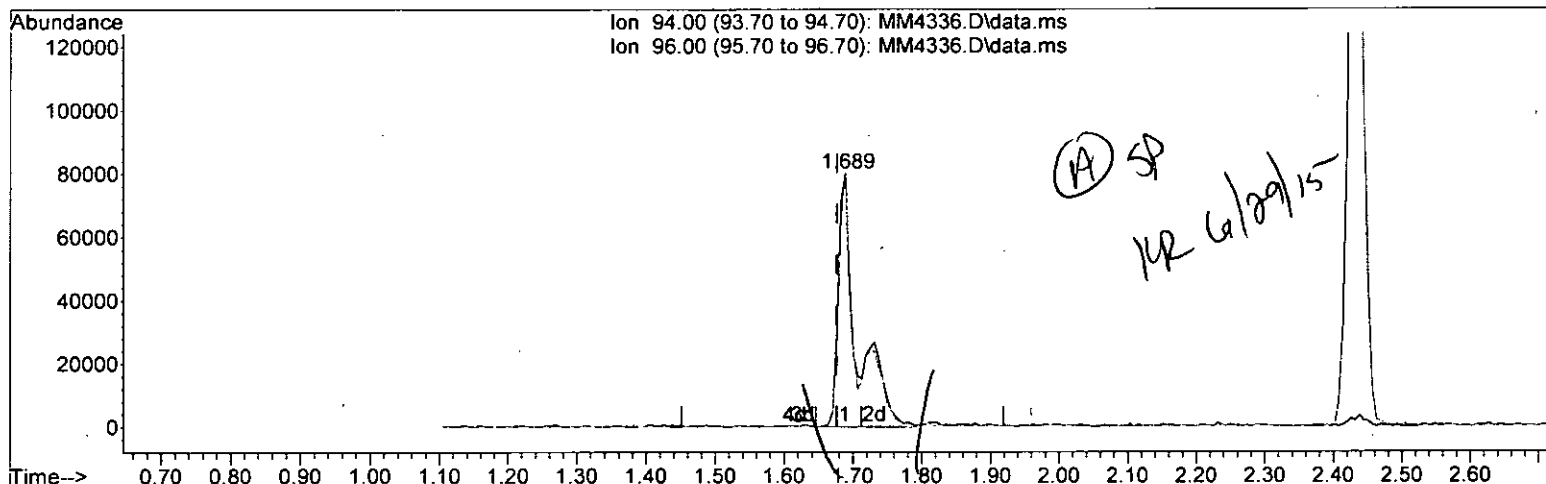
response 104149

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	96.56
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4336.D
Acq On : 28 Jun 2015 7:36 pm
Operator : K.Ruest
Sample : R1504946-005MS|1.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4336.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 27.82 ppb m

response 153068

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	96.56
0.00	0.00	0.00
0.00	0.00	0.00

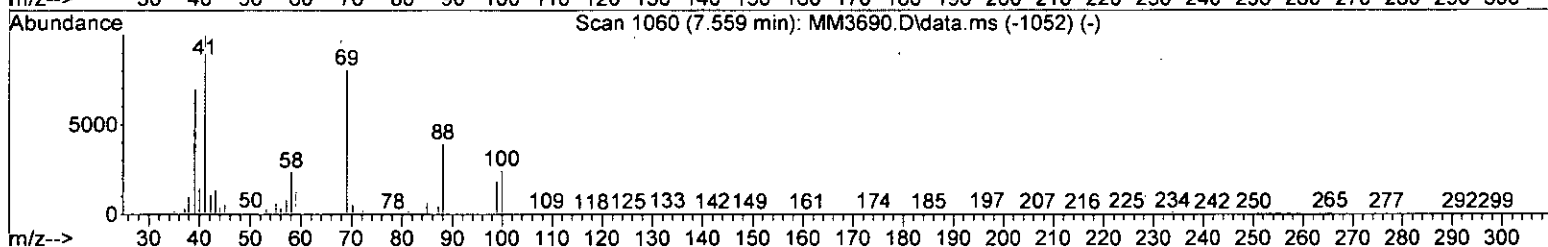
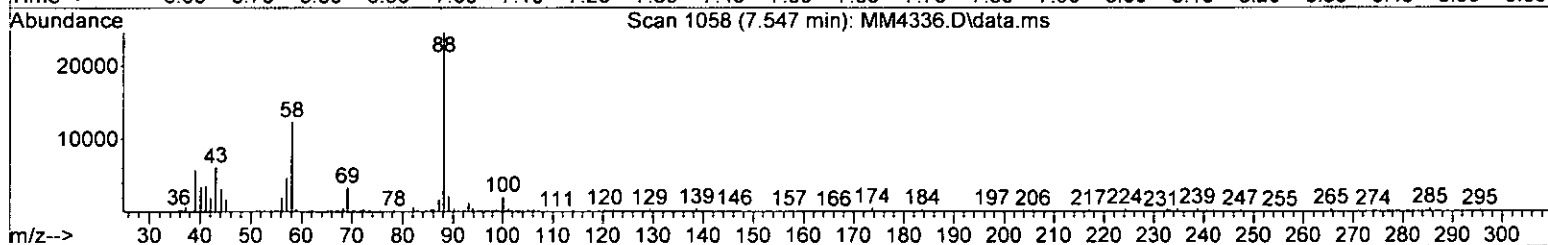
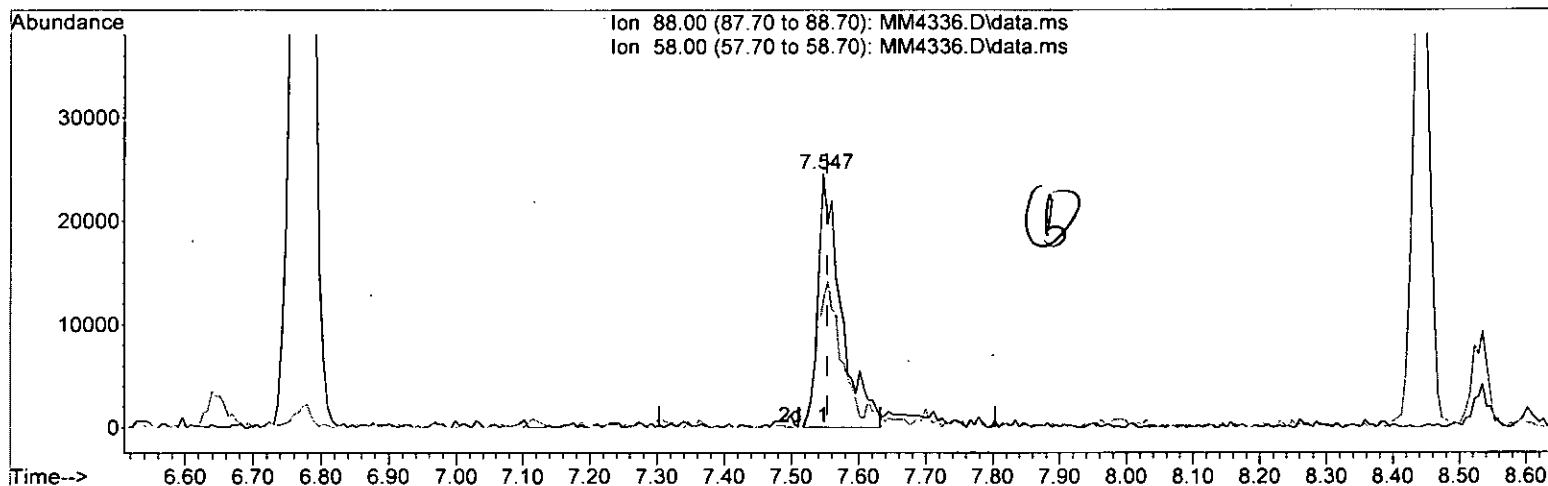
mw
G/L

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4336.D
 Acq On : 28 Jun 2015 7:36 pm
 Operator : K.Ruest
 Sample : R1504946-005MS|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4336.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1007.08 ppb

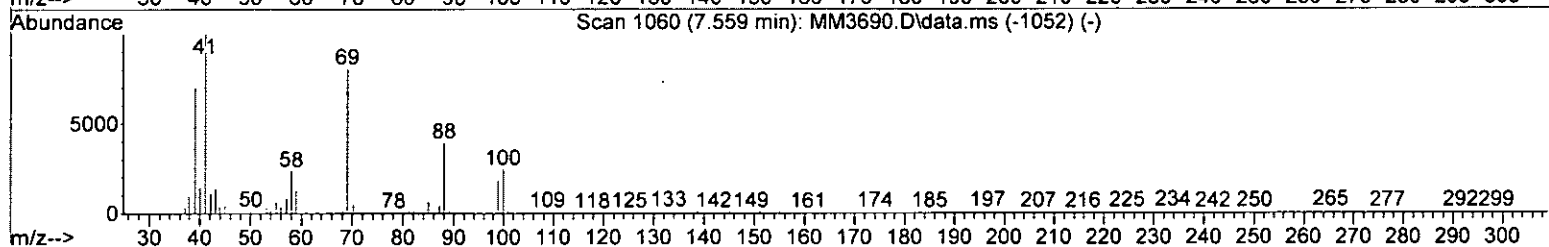
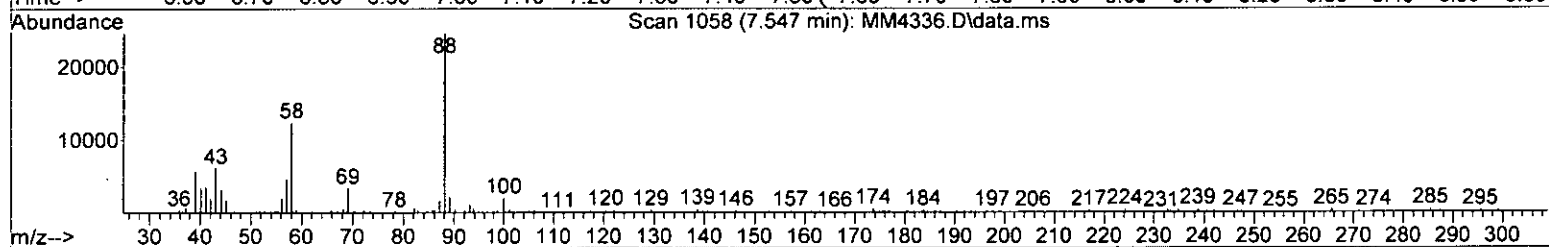
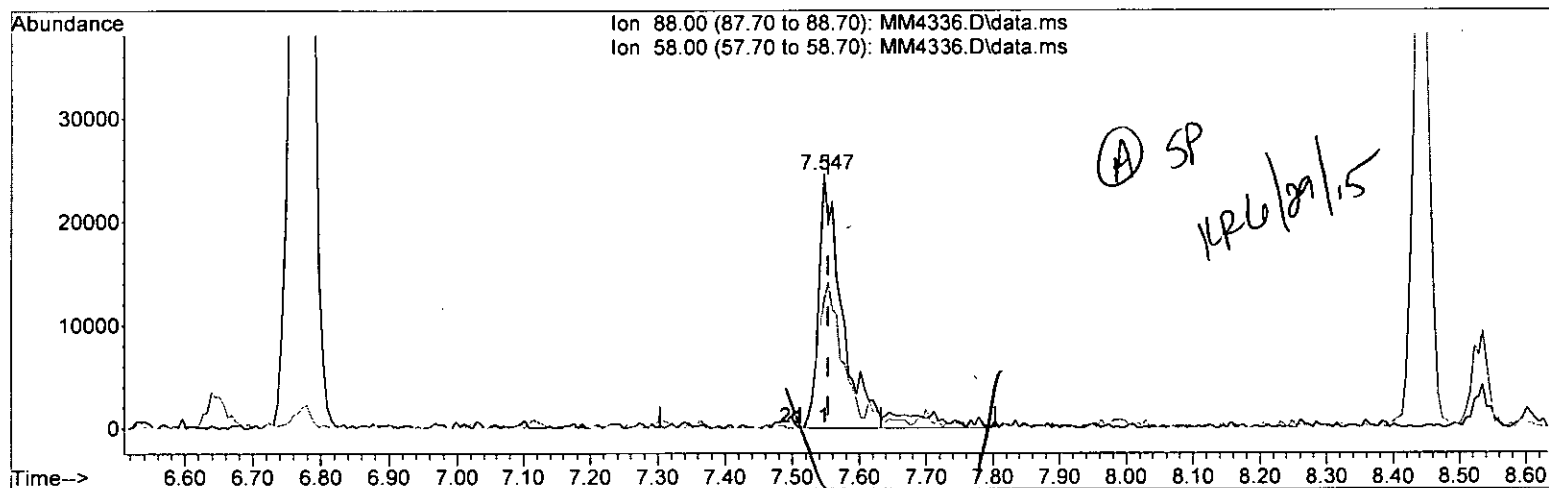
response 58549

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	50.25
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4336.D
Acq On : 28 Jun 2015 7:36 pm
Operator : K.Ruest
Sample : R1504946-005MS|1.0
Misc : CB&I 13429 T4
ALS Vial : 20 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4336.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1142.79 ppb m

response 66439

Ion	Exp%	Act%
88.00	100	100
58.00	60.70	50.25
0.00	0.00	0.00
0.00	0.00	0.00

W
Ch

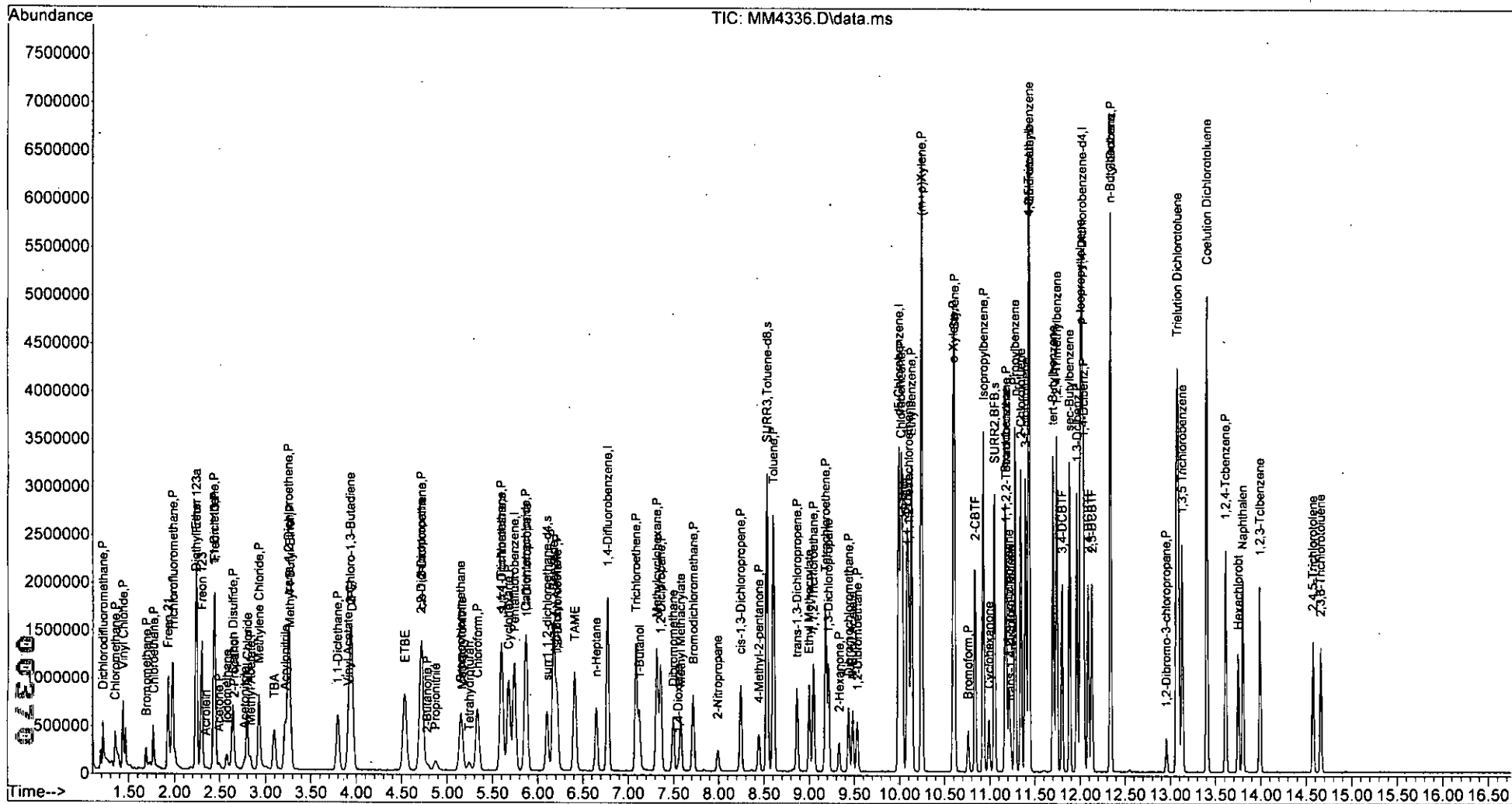
Quantitation Report

(Not Reviewed)

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Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\  
Data File : MM4336.D  
Acq On    : 28 Jun 2015    7:36 pm  
Operator  : K.Ruest  
Sample    : R1504946-005MS|1.0  
Misc      : CB&I 13429 T4  
ALS Vial  : 20    Sample Multiplier: 1
```

Inst : MSVOA-12

Quant Time: Jun 28 19:53:07 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
 Project: Textron Wheatfield/148900.33.000000
 Sample Matrix: Water

Service Request: R1504946
 Date Collected: 6/19/15 1150
 Date Received: 6/20/15
 Date Analyzed: 6/28/15 20:07

Sample Name: BAT-EW-6-150619
 Lab Code: RQ1507088-06
 Run Type: Duplicate Matrix Spike

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Prep Method: EPA 5030C
 Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4337.D\

Analysis Lot: 450948
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	MDL	Note
74-87-3	Chloromethane	58.0	1.0	0.21	
75-01-4	Vinyl Chloride	55.0	1.0	0.32	
75-00-3	Chloroethane	45.2	1.0	0.24	
74-83-9	Bromomethane	38.8	1.0	0.29	
75-35-4	1,1-Dichloroethene	50.2	1.0	0.57	
67-64-1	Acetone	52.2	5.0	1.3	
75-15-0	Carbon Disulfide	30.6	1.0	0.22	
75-09-2	Methylene Chloride	50.3	1.0	0.60	
156-60-5	trans-1,2-Dichloroethene	52.1	1.0	0.33	
75-34-3	1,1-Dichloroethane	50.7	1.0	0.20	
156-59-2	cis-1,2-Dichloroethene	65.0	1.0	0.30	
78-93-3	2-Butanone (MEK)	53.6	5.0	0.81	
67-66-3	Chloroform	49.8	1.0	0.25	
71-55-6	1,1,1-Trichloroethane	48.6	1.0	0.36	
56-23-5	Carbon Tetrachloride	44.3	1.0	0.45	
71-43-2	Benzene	51.9	1.0	0.20	
107-06-2	1,2-Dichloroethane	48.8	1.0	0.36	
79-01-6	Trichloroethene	53.5	1.0	0.22	
78-87-5	1,2-Dichloropropane	51.0	1.0	0.20	
75-27-4	Bromodichloromethane	45.9	1.0	0.32	
10061-01-5	cis-1,3-Dichloropropene	41.4	1.0	0.24	
108-10-1	4-Methyl-2-pentanone (MIBK)	56.0	5.0	0.67	
108-88-3	Toluene	51.2	1.0	0.20	
10061-02-6	trans-1,3-Dichloropropene	42.0	1.0	0.20	
79-00-5	1,1,2-Trichloroethane	54.4	1.0	0.34	
127-18-4	Tetrachloroethene	49.1	1.0	0.30	
591-78-6	2-Hexanone	51.0	5.0	1.7	
124-48-1	Dibromochloromethane	43.0	1.0	0.31	
108-90-7	Chlorobenzene	49.7	1.0	0.29	
100-41-4	Ethylbenzene	46.0	1.0	0.20	
179601-23-1	m,p-Xylenes	99.1	2.0	0.33	
95-47-6	o-Xylene	50.1	1.0	0.20	
100-42-5	Styrene	41.6	1.0	0.20	
75-25-2	Bromoform	36.5	1.0	0.42	
79-34-5	1,1,2,2-Tetrachloroethane	52.3	1.0	0.25	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: CB&I
Project: Textron Wheatfield/148900.33.000000
Sample Matrix: Water

Service Request: R1504946
Date Collected: 6/19/15 1150
Date Received: 6/20/15
Date Analyzed: 6/28/15 20:07

Sample Name: BAT-EW-6-150619
Lab Code: RQ1507088-06
Run Type: Duplicate Matrix Spike

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Prep Method: EPA 5030C
Data File Name: I:\ACQUDATA\MSVOA12\DATA\062815\MM4337.D\

Analysis Lot: 450948
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	110	85-122	6/28/15 20:07			
Toluene-d8	107	87-121	6/28/15 20:07			
Dibromofluoromethane	105	89-119	6/28/15 20:07			

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\
 Data File : MM4337.D
 Acq On : 28 Jun 2015 8:07 pm
 Operator : K.Ruest
 Sample : R1504946-005DMS|1.0 *RQ1507084-06* Inst : MSVOA-12
 Misc : CB&I 13429 T4
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 20:23:27 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Pentafluorobenzene	5.743	168	962371	50.00	ppb	0.00
43) 1,4-Difluorobenzene	6.773	114	1580552	50.00	ppb	0.00
71) d5-Chlorobenzene	9.992	117	1530784	50.00	ppb	0.00
86) 1,4-Dichlorobenzene-d4	12.022	152	900723	50.00	ppb	0.00
System Monitoring Compounds						
45) surr4, Dibrflmethane	5.603	113	449397	52.54	ppb	0.00
Spiked Amount	50.000	Range 89 - 119	Recovery	=	105.08%	
48) surr1, 1,2-dichloroetha...	6.102	65	481028	52.65	ppb	0.00
Spiked Amount	50.000	Range 78 - 122	Recovery	=	105.30%	
65) SURR3, Toluene-d8	8.535	98	2004329	53.66	ppb	0.00
Spiked Amount	50.000	Range 87 - 121	Recovery	=	107.32%	
70) SURR2, BFB	11.053	95	784220	55.25	ppb	0.00
Spiked Amount	50.000	Range 85 - 122	Recovery	=	110.50%	
Target Compounds						
2) Dichlorodifluoromethane	1.219	85	~~485821~~ 515422	~~59.16~~ 63.14	ppb	96
3) Chloromethane	1.347	50	462774	57.95	ppb	100
4) Vinyl Chloride	1.433	62	554417	54.97	ppb	96
5) Bromomethane	1.689	94	~~173737~~ 173737	~~30.34~~ 38.79	ppb	100
6) Chloroethane	1.768	64	302609	45.22	ppb	92
7) Freon 21	1.926	67	953625	57.08	ppb	99
8) Trichlorofluoromethane	1.981	101	681041	45.31	ppb	99
9) Diethyl Ether	2.231	59	343599	51.70	ppb	96
10) Freon 123a	2.237	67	576616	54.07	ppb	93
11) Freon 123	2.298	83	613432	49.51	ppb	100
12) Acrolein	2.341	56	19743	28.49	ppb	95
13) 1,1-Diclcethene	2.432	96	355248	50.20	ppb	97
14) Freon 113	2.445	101	353679	50.48	ppb	98
15) Acetone	2.487	43	70420	52.20	ppb	98
16) 2-Propanol	2.652	45	280815	1048.14	ppb	99
17) Iodomethane	2.579	142	323413	37.62	ppb	99
18) Carbon Disulfide	2.640	76	692933	30.55	ppb	99
19) Acetonitrile	2.768	40	40137	231.80	ppb	# 78
20) Allyl Chloride	2.798	76	127301	29.89	ppb	96
21) Methyl Acetate	2.835	43	141972	48.33	ppb	95
22) Methylene Chloride	2.926	84	378035	50.26	ppb	98
23) TBA	3.097	59	539547	1129.07	ppb	94
24) Acrylonitrile	3.213	53	419268	273.45	ppb	99
25) Methyl-t-Butyl Ether	3.268	73	984350	53.53	ppb	98
26) trans-1,2-Dichloroethene	3.249	96	412180	52.12	ppb	92
28) 1,1-Diclcethane	3.798	63	662611	50.71	ppb	95
29) Vinyl Acetate	3.902	86	61398	39.19	ppb	# 89
30) DIPE	3.950	45	1085476	47.79	ppb	94
31) 2-Chloro-1,3-Butadiene	3.932	53	553744	38.95	ppb	95
32) ETBE	4.530	59	1038438	45.87	ppb	99
33) 2,2-Dichloropropane	4.706	77	477704	38.38	ppb	97
34) cis-1,2-Dichloroethene	4.719	96	548292	65.04	ppb	92
35) 2-Butanone	4.786	43	94950	53.56	ppb	95
36) Propionitrile	4.877	54	161006	297.43	ppb	91

KR
6/29/15

m42

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4337.D

Acq On : 28 Jun 2015 8:07 pm

Operator : K.Ruest

Sample : R1504946-005DMS|1:0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 20:23:27 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) Bromochloromethane	5.151	130	230982	49.56	ppb	99
38) Methacrylonitrile	5.158	67	101732	50.35	ppb #	76
39) Tetrahydrofuran	5.249	42	66589	55.22	ppb	83
40) Chloroform	5.334	83	686204	49.84	ppb	96
41) 1,1,1-Trichloroethane	5.603	97	643230	48.58	ppb	97
42) TAME	6.407	73	993032	50.29	ppb	94
44) Cyclohexane	5.676	41	330285	46.01	ppb	94
46) Carbontetrachloride	5.865	121	152380	44.30	ppb	92
47) 1,1-Dichloropropene	5.871	75	525710	48.34	ppb	92
49) Benzene	6.176	78	1626546	51.93	ppb	99
50) 1,2-Dichloroethane	6.212	62	489921	48.79	ppb	99
51) Iso-Butyl Alcohol	6.206	43	210004	1009.31	ppb	87
52) n-Heptane	6.645	43	283455	42.49	ppb	94
53) 1-Butanol	7.121	56	377482	2856.83	ppb	100
54) Trichloroethene	7.084	130	452148	53.47	ppb	97
55) Methylcyclohexane	7.316	55	402762	50.93	ppb	93
56) 1,2-Dichloropropane	7.358	63	382279	51.02	ppb	94
57) Dibromomethane	7.492	93	203365	50.39	ppb	97
58) 1,4-Dioxane	7.547	88	~~6751161842~~ 1027.27	1121.43	ppb	84 ^{m42}
59) Methyl Methacrylate	7.578	69	204489	55.95	ppb	94
60) Bromodichloromethane	7.712	83	496450	45.92	ppb	97
61) 2-Nitropropane	7.986	41	111396	79.68	ppb	98
63) cis-1,3-Dichloropropene	8.242	75	520639	41.36	ppb	99
64) 4-Methyl-2-pentanone	8.443	43	239253	56.02	ppb	97
66) Toluene	8.602	91	1839771	51.20	ppb	98
67) trans-1,3-Dichloropropene	8.864	75	452171	41.98	ppb	97
68) Ethyl Methacrylate	8.998	69	414913	53.08	ppb	95
69) 1,1,2-Trichloroethane	9.047	97	315090	54.37	ppb	95
72) Tetrachloroethene	9.181	164	344440	49.06	ppb	99
73) 2-Hexanone	9.334	43	158179	51.04	ppb	94
74) 1,3-Dichloropropane	9.218	76	547316	54.45	ppb	92
75) Dibromochloromethane	9.437	129	325442	43.01	ppb	97
76) N-Butyl Acetate	9.480	43	356548	43.80	ppb	97
77) 1,2-Dibromoethane	9.535	107	313076	52.74	ppb	99
78) Chlorobenzene	10.016	112	1237720	49.67	ppb	99
79) 3-CBTF	10.035	180	591305	50.33	ppb	95
80) 4-CBTF	10.083	180	515785	48.47	ppb	99
81) 1,1,1,2-Tetrachloroethane	10.102	131	413607	49.35	ppb	98
82) Ethylbenzene	10.132	106	620170	45.98	ppb	98
83) (m+p)Xylene	10.242	106	1629096	99.09	ppb	99
84) o-Xylene	10.595	106	798077	50.13	ppb	100
85) Styrene	10.608	104	1137588	41.63	ppb	98
87) Bromoform	10.760	173	168295	36.50	ppb	95
88) 2-CBTF	10.839	180	579652	44.36	ppb	94
89) Isopropylbenzene	10.925	105	1973730	47.20	ppb	99
90) Cyclohexanone	10.986	55	183190	739.07	ppb	85
91) trans-1,4-Dichloro-2-B...	11.230	53	57996	25.78	ppb	97
92) 1,1,2,2-Tetrachloroethane	11.181	83	397747	52.26	ppb	97
93) Bromobenzene	11.175	156	492331	47.22	ppb	95
94) 1,2,3-Trichloropropane	11.211	110	112175	48.44	ppb #	83
95) n-Propylbenzene	11.278	91	2285736	48.57	ppb	98

Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\

Data File : MM4337.D

Acq On : 28 Jun 2015 8:07 pm

Operator : K.Ruest

Sample : R1504946-005DMS|1.0

Inst : MSVOA-12

Misc : CB&I 13429 T4

ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 28 20:23:27 2015

Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M

Quant Title : MS#12 - 8260B WATERS 10mL Purge

QLast Update : Fri Jun 05 14:19:46 2015

Response via : Initial Calibration

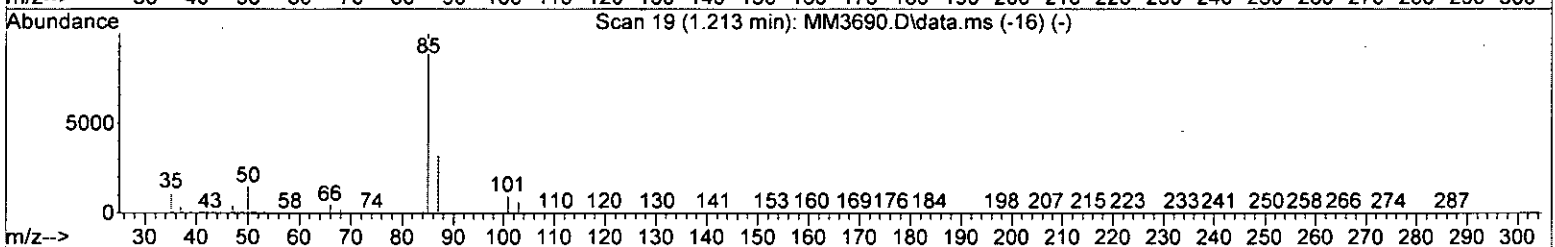
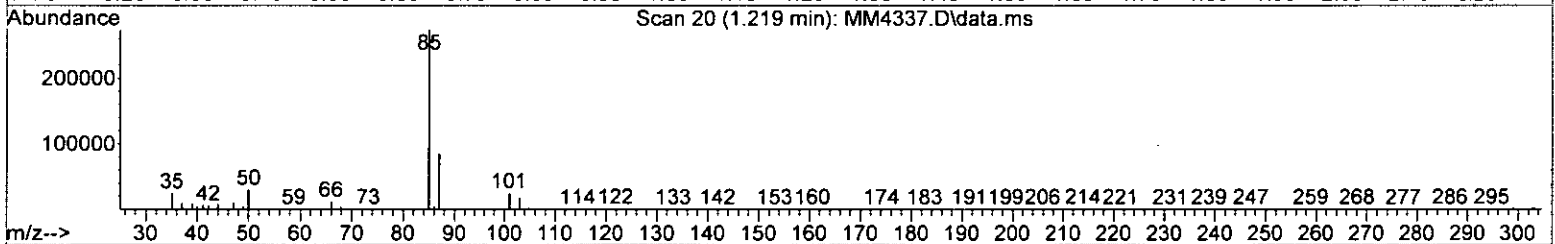
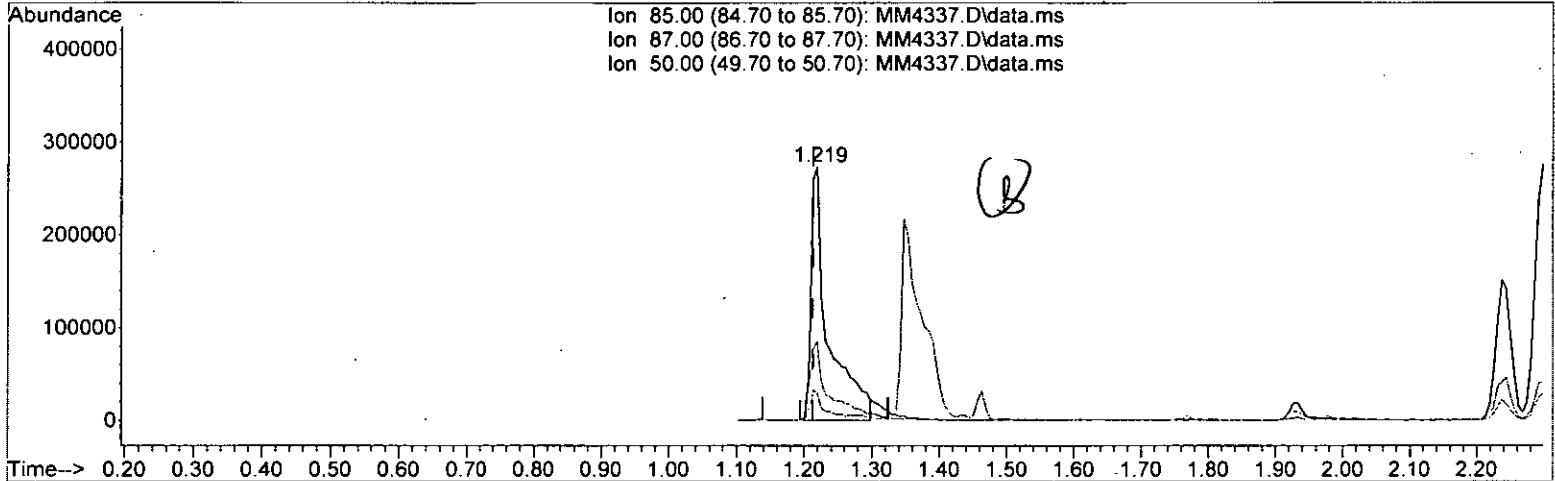
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96) 2-Chlorotoluene	11.345	91	1383421	47.70	ppb	99
97) 3-Chlorotoluene	11.394	91	1437704	46.79	ppb	98
98) 4-Chlorotoluene	11.437	91	1709666	47.68	ppb	99
99) 1,3,5-Trimethylbenzene	11.431	105	1606784	44.85	ppb	100
100) tert-Butylbenzene	11.705	119	1367908	47.39	ppb	98
101) 1,2,4-Trimethylbenzene	11.742	105	1543789	42.68	ppb	99
102) 3,4-DCBTF	11.803	214	393765	46.03	ppb	96
103) sec-Butylbenzene	11.882	105	1880969	47.53	ppb	99
104) p-Isopropyltoluene	12.004	119	1640098	48.72	ppb	100
105) 1,3-Dclbenz	11.967	146	979560	48.33	ppb	99
106) 1,4-Dclbenz	12.040	146	1013531	48.01	ppb	98
107) 2,4-DCBTF	12.089	214	358147	47.44	ppb	98
108) 2,5-DCBTF	12.132	214	400983	47.24	ppb	99
109) n-Butylbenzene	12.333	91	1429491	47.32	ppb	100
110) 1,2-Dclbenz	12.339	146	942112	49.73	ppb	99
111) 1,2-Dibromo-3-chloropr...	12.961	157	76844	49.88	ppb	93
112) Trielution Dichlorotol...	13.077	125	2303330	144.37	ppb	99
113) 1,3,5 Trichlorobenzene	13.132	180	603388	50.78	ppb	97
114) Coelution Dichlorotoluene	13.406	125	1695866	99.22	ppb	99
115) 1,2,4-Tcbenzene	13.613	180	564499	51.88	ppb	97
116) Hexachlorobt	13.753	225	187658	44.79	ppb	95
117) Naphthalen	13.802	128	1278530	55.99	ppb	98
118) 1,2,3-Tclbenzene	13.991	180	493700	55.49	ppb	92
119) 2,4,5-Trichlorotoluene	14.576	159	348222	48.96	ppb	94
120) 2,3,6-Trichlorotoluene	14.662	159	308744	50.48	ppb	95

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

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4337.D
Acq On : 28 Jun 2015 8:07 pm
Operator : K.Ruest
Sample : R1504946-005DMS|1.0
Misc : CB&I 13429 T4
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4337.D\data.ms

(2) Dichlorodifluoromethane (P)

1.219min (+0.006) 59.16 ppb

response 485821

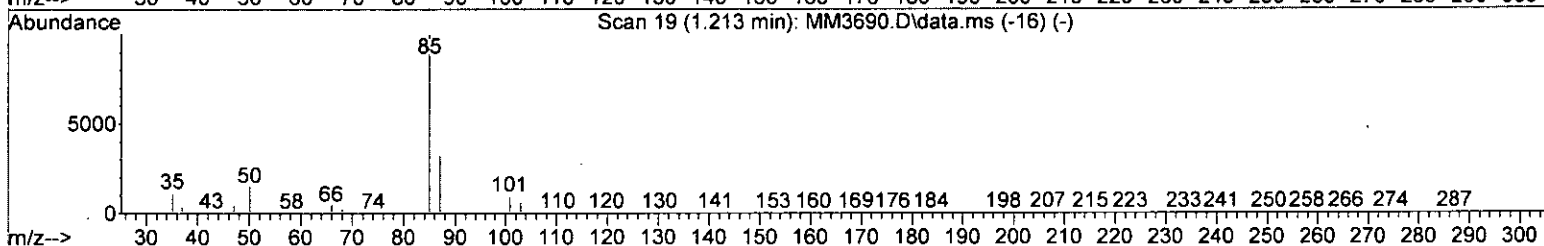
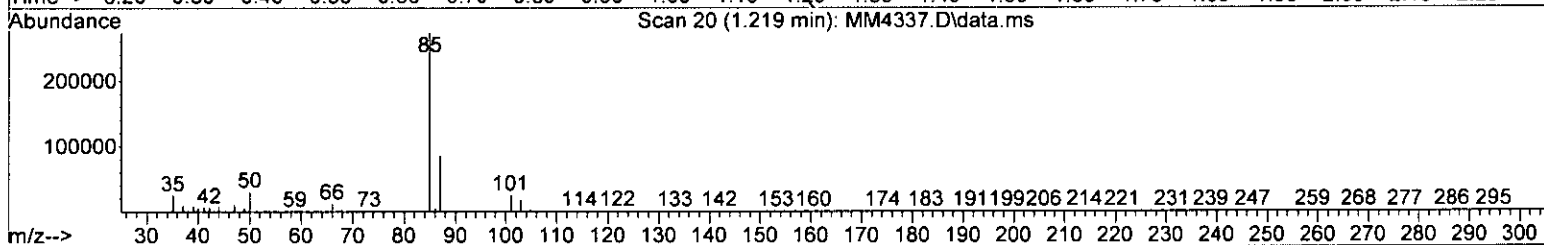
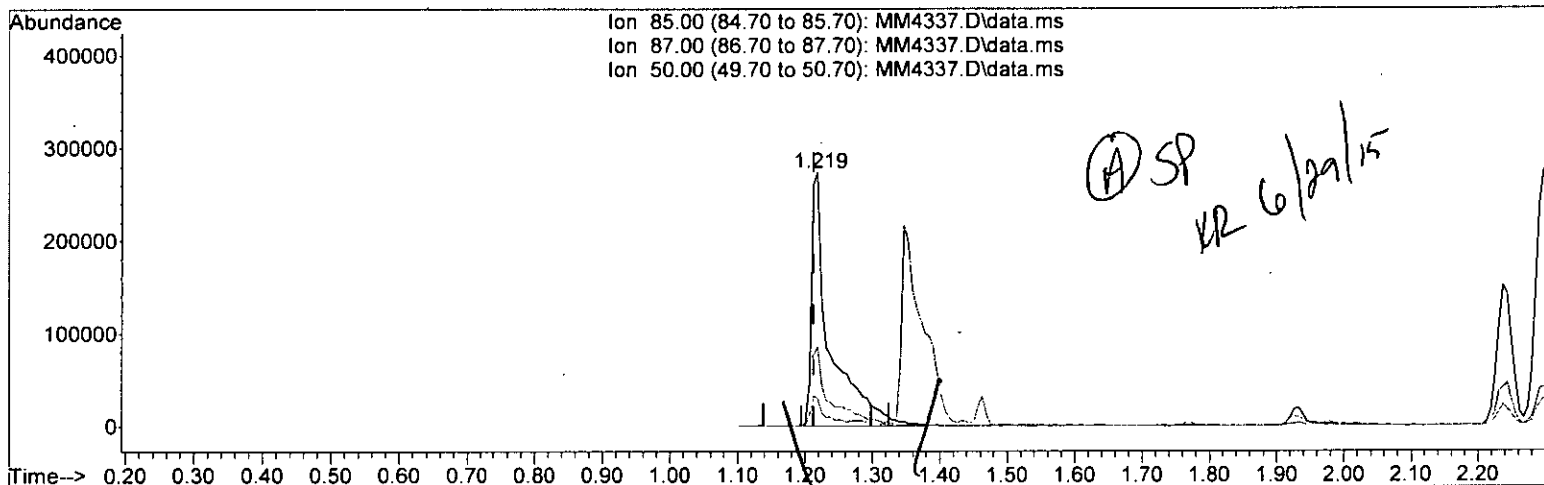
Ion	Exp%	Act%
85.00	100	100
87.00	32.00	31.01
50.00	14.50	10.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4337.D
 Acq On : 28 Jun 2015 8:07 pm
 Operator : K.Ruest
 Sample : R1504946-005DMS|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4337.D\data.ms

(2) Dichlorodifluoromethane (P)

1.219min (+0.006) 63.18 ppb m

response 518822

Ion	Exp%	Act%
85.00	100	100
87.00	32.00	31.01
50.00	14.50	10.88
0.00	0.00	0.00

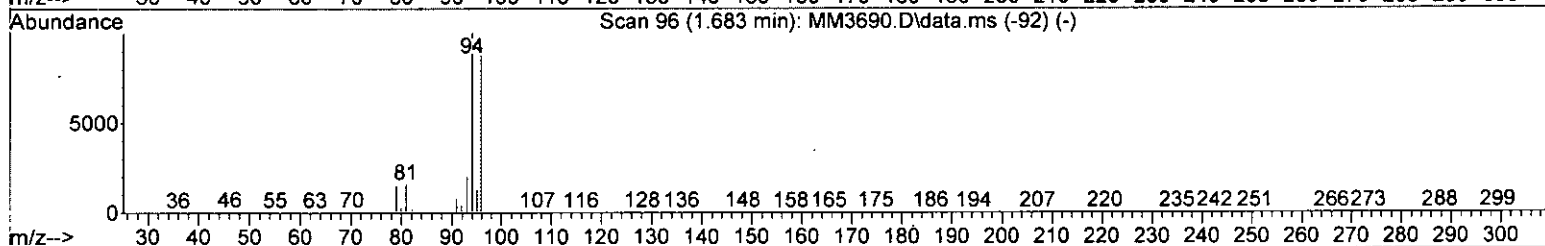
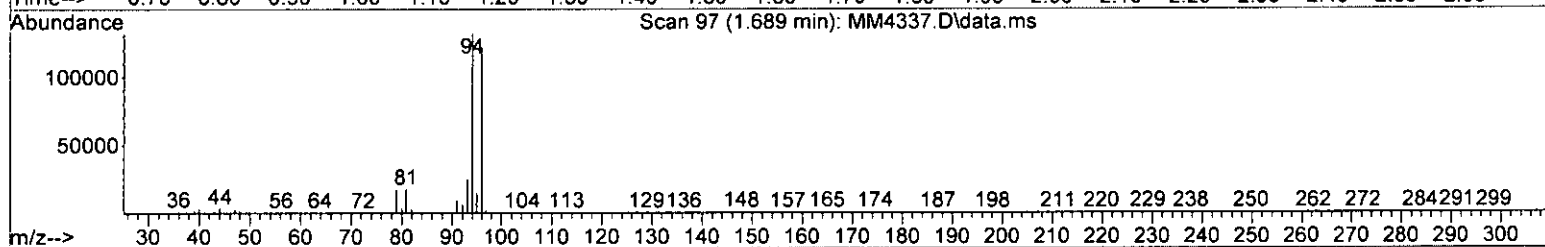
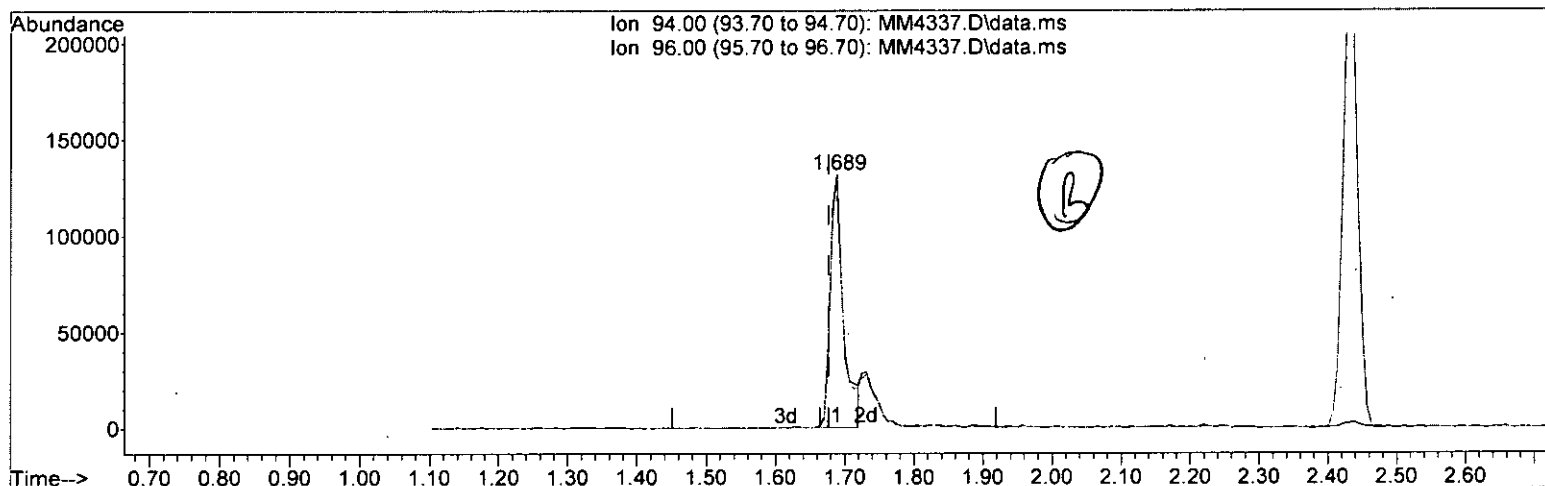
mm
6/29/15

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4337.D
 Acq On : 28 Jun 2015 8:07 pm
 Operator : K.Ruest
 Sample : R1504946-005DMS|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4337.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 30.34 ppb

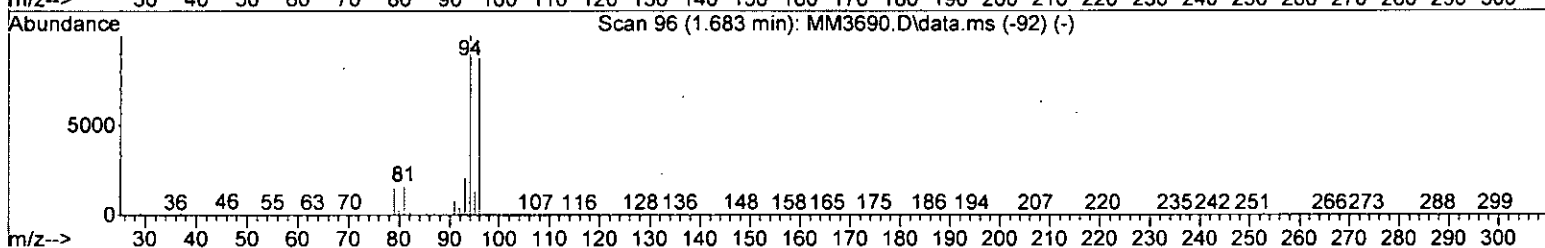
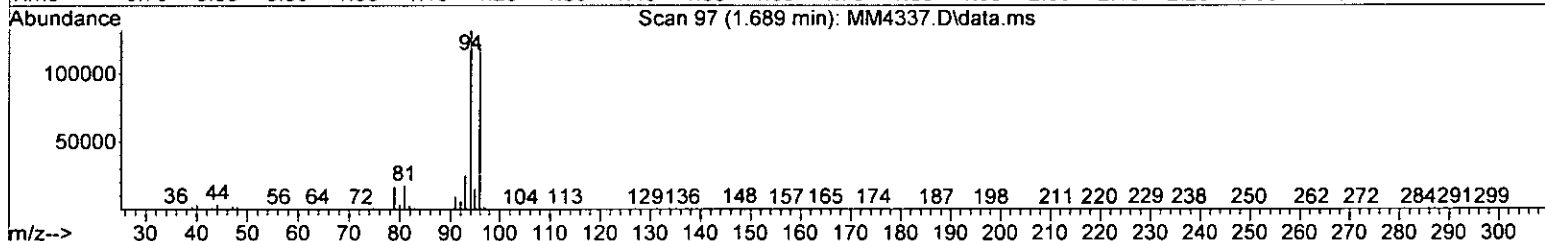
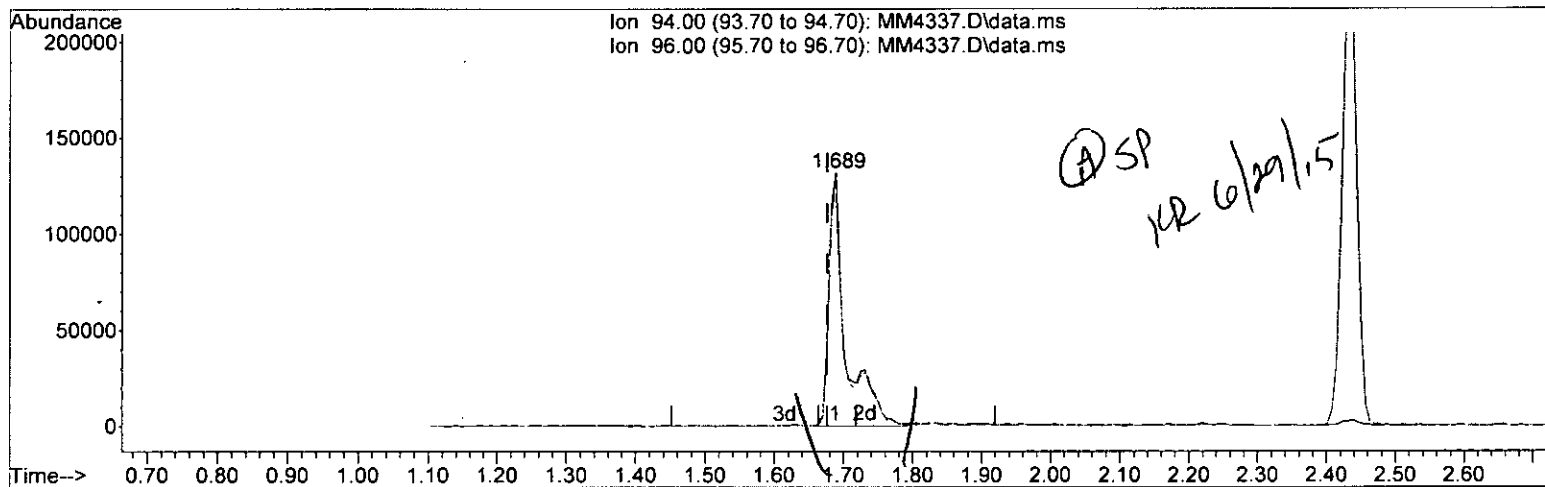
response 173737

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	91.68
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4337.D
 Acq On : 28 Jun 2015 8:07 pm
 Operator : K.Ruest
 Sample : R1504946-005DMS|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4337.D\data.ms

(5) Bromomethane (P)

1.689min (+0.012) 38.79 ppb m

response 222079

Ion	Exp%	Act%
94.00	100	100
96.00	91.80	91.68
0.00	0.00	0.00
0.00	0.00	0.00

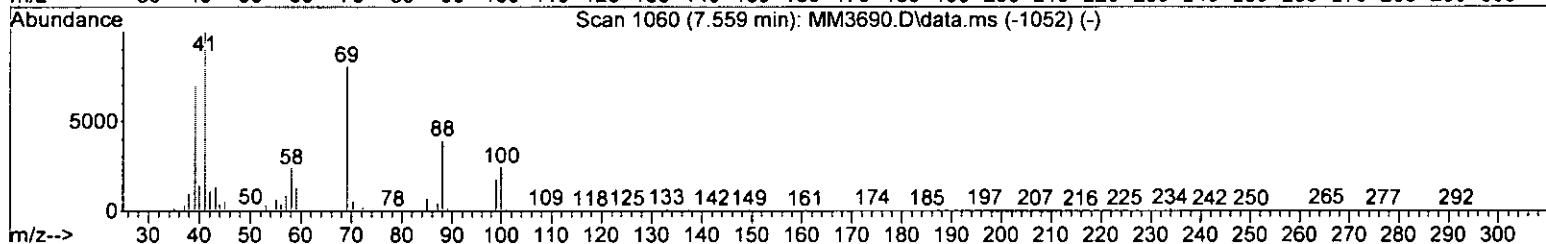
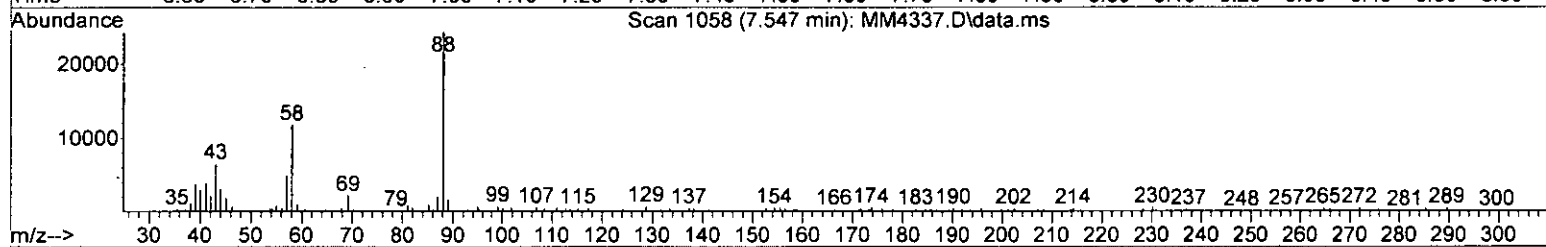
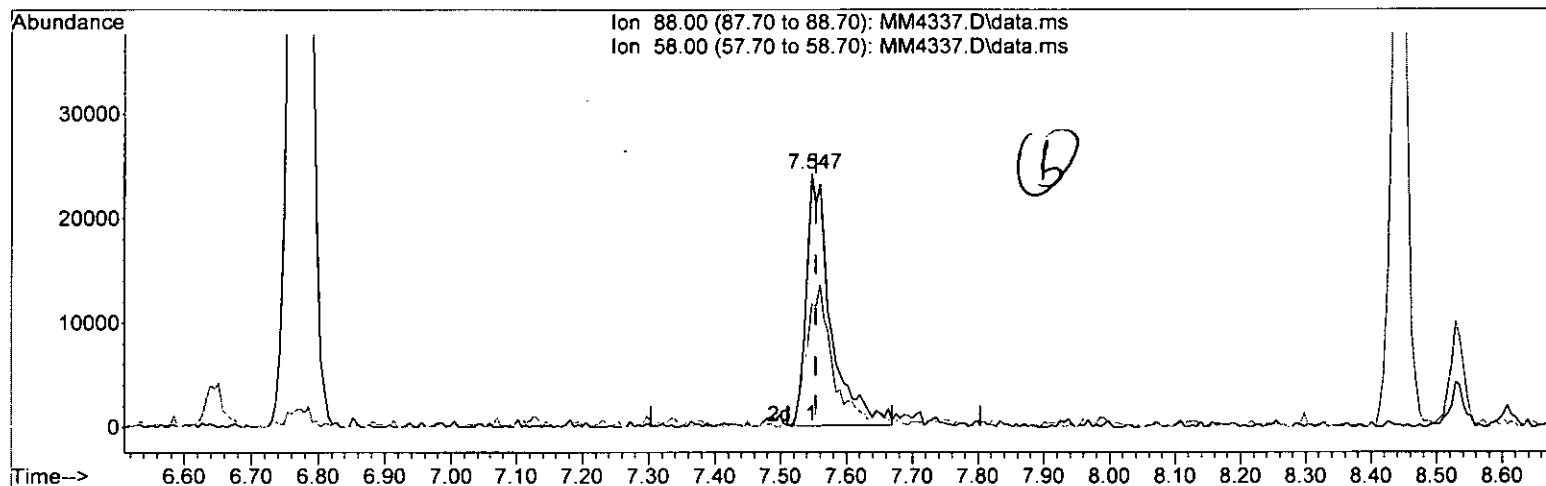
Wm
5/11

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
Data File : MM4337.D
Acq On : 28 Jun 2015 8:07 pm
Operator : K.Ruest
Sample : R1504946-005DMS|1.0
Misc : CB&I 13429 T4
ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



TIC: MM4337.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1027.27 ppb

response 61842

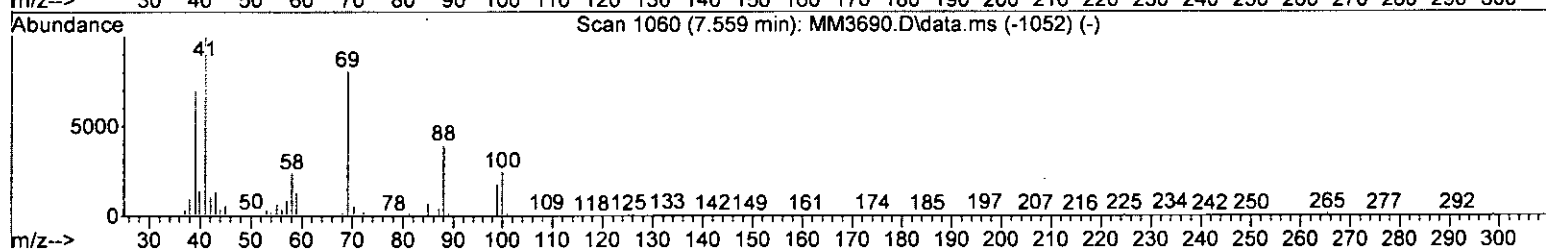
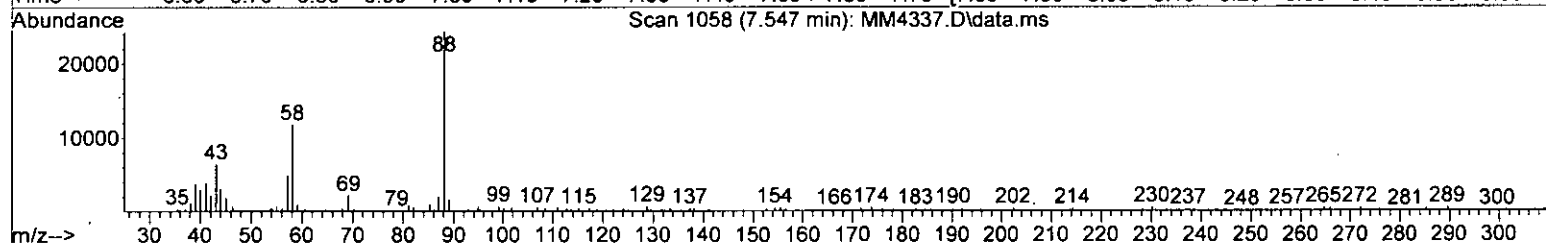
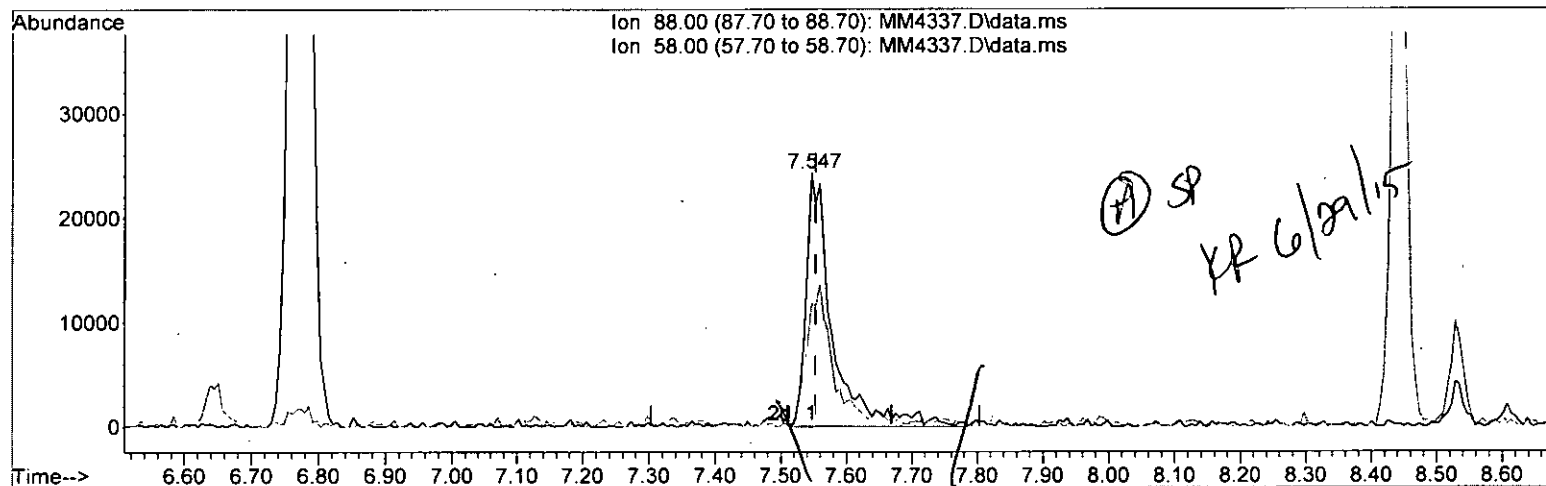
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	48.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : I:\ACQUDATA\msvoa12\Data\062815\
 Data File : MM4337.D
 Acq On : 28 Jun 2015 8:07 pm
 Operator : K.Ruest
 Sample : R1504946-005DMS|1.0
 Misc : CB&I 13429 T4
 ALS Vial : 21 Sample Multiplier: 1

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
 Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
 Quant Title : MS#12 - 8260B WATERS 10mL Purge
 QLast Update : Fri Jun 05 14:19:46 2015
 Response via : Initial Calibration



TIC: MM4337.D\data.ms

(58) 1,4-Dioxane

7.547min (-0.006) 1121.43 ppb m

response 67511

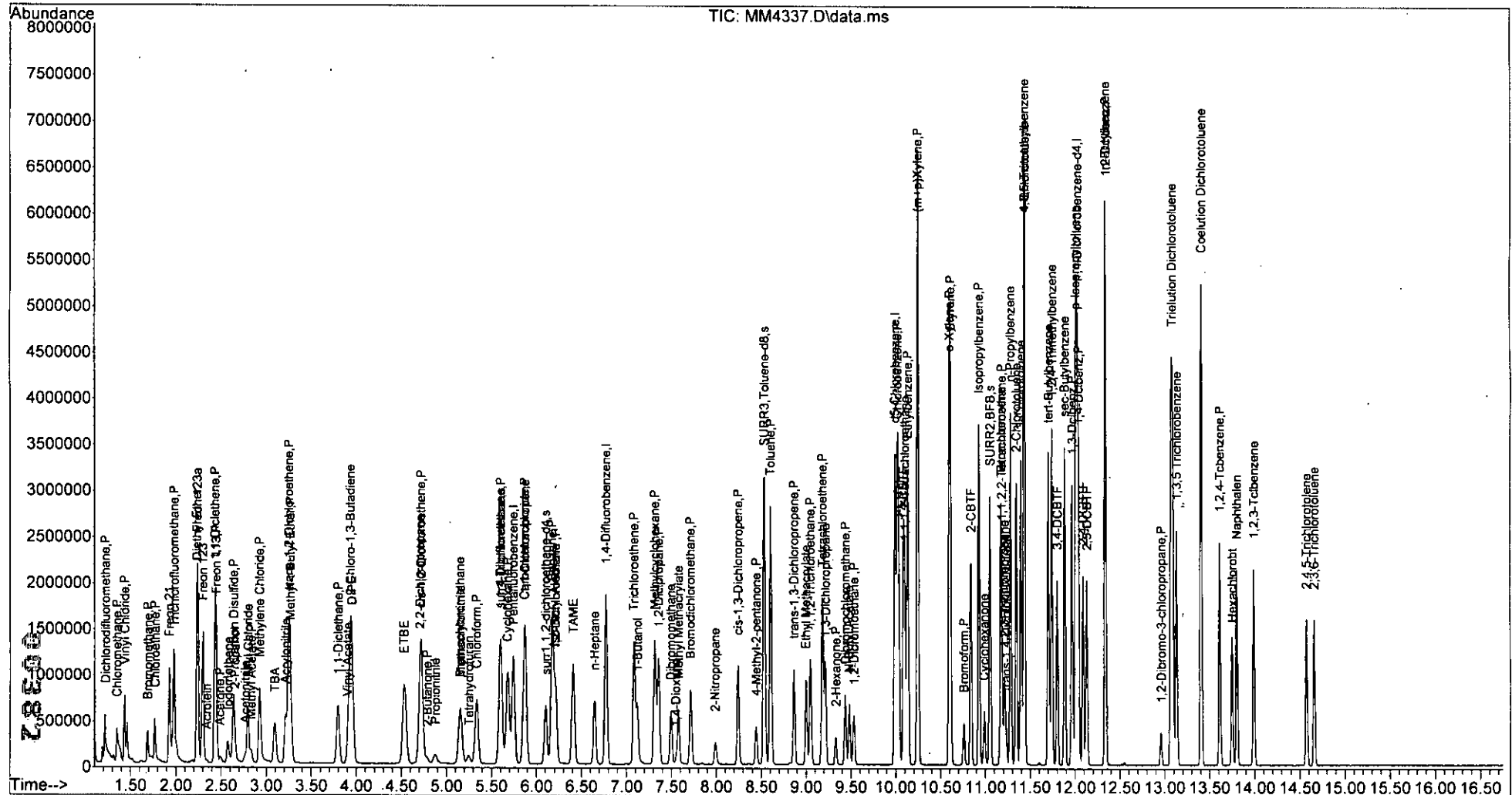
Ion	Exp%	Act%
88.00	100	100
58.00	60.70	48.57
0.00	0.00	0.00
0.00	0.00	0.00

W
6/14

```
Data Path : I:\ACQUDATA\MSVOA12\DATA\062815\  
Data File : MM4337.D  
Acq On    : 28 Jun 2015    8:07 pm  
Operator  : K.Ruest  
Sample    : R1504946-005DMS|1.0  
Misc      : CB&I 13429 T4  
ALS Vial  : 21    Sample Multiplier: 1
```

Inst : MSVOA-12

Quant Time: Jun 28 20:23:27 2015
Quant Method : I:\ACQUDATA\MSVOA12\METHODS\W060415.M
Quant Title : MS#12 - 8260B WATERS 10mL Purge
QLast Update : Fri Jun 05 14:19:46 2015
Response via : Initial Calibration



Analysis: 8260 Water/sAnalyst: K. JurekTune Method: W0600-115Date: 6/4/15Data Path: j:\acquadata\msvoa\12 000415Run Method: ↓Instr: 12LIMS Run#: -ICAL-

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	BLK								MM3679		
2	BLK								MM3680		
3	BLK								MM3681		
4	BLK								MM3682		
5	TUNE (Carbon is/sul)								MM3683	Y	(auto)
6	1BLK	5µL	(500ppm) 5µL (500ppm)	FV					MM3684	Y	
7	0.5ppb	5µL	-	20µL					MM3685	Y	8260 Water ICAL
8	1.0	10µL	-						MM3686	Y	
9	2.0	20µL	-	1µL					MM3687	Y	
10	5.0	50µL	-	2µL					MM3688	Y	
11	20	-	2µL	5µL					MM3689	Y	
12	50	-	5µL	-					MM3690	Y	
13	100	-	10µL	7.5µL					MM3691	Y	
14	150	-	15µL	10µL					MM3692	Y	
15	200	-	20µL	-					MM3693	Y	
16	BLK								MM3694	-	
17	↓								MM3695	-	
18	↓								MM3696	-	
19	↓								MM3697	-	
20	ICV								MM3698	Y	
21	BLK								MM3699	-	
22	↓								MM3700	-	

All samples = 10 mL + 1 µL combined IS/Surr. 10 mL purged

SDD Primary OC : 810817
 Primary HBO : 81279
 Primary f+ : 81371 5µL → 20µL (12)
 Primary HSL : 81514 10µL →
 Primary T6 : 81550

200 Secondary f+ : 80981 - 12.5µL
 SDD Secondary OC : 81088
 Secondary HBO : 80990 5µL
 Secondary T6 : 81377
 Secondary HSL : 81492

20µL = ICV

Combined IS/Surr SDD : 81485

Surrogate SDD : _____

Internal Std : _____

Analysis: 8260 waterAnalyst: L. QuestTune Method: W060415Date: 6/28/15Data Path: j:\acqdata\msvoa\21 062815Run Method: ↓Instr: 12LIMS Run#: 450948

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	NH4 STD								mm4314		
2	BUL								mm4315		
3	TUNE (Carbon 1/4in)		2015070846 - 01						mm4316	Y	(auto) 9:15
4	CCV		02						mm4317	Y	
5	LCS		03						mm4318	Y	
6	BUL		04						mm4319	Y	np+ 4.0
7	↓								mm4320	Y	
8	P1504923 - 002	1.0			1503	4	2	22	mm4321	Y	LA - ↓ su confirms
9	↓	008	1.0		↓	↓	2	22	mm4322	Y	
10	P1505119 - 009	1.0			13429	4	1	22	mm4323	Y	
11	↓	004	1.0		↓	↓	1	22	mm4324	Y	
12	↓	003	100	1/100mLs	↓	↓	1	22	mm4325	Y	np+ 2.0 (5.0 for SO2?)
13	↓	007	200	1/200mLs	↓	↓	1	22	mm4326	Y	np+ 500
14	BUL								mm4327		
15	P1504946 - 007	1.0			13429	4	1	22	mm4328	Y	
16	↓	001	1.0		↓	↓	1	22	mm4329	Y	
17	↓	002	006	1.0	↓	↓	1	22	mm4330	Y	
18	↓	005	008	10	↓	↓	1	22	mm4331	Y	
19	↓	006	004	10	↓	↓	1	22	mm4332	Y	
20	↓	008	10	↓	↓	↓	1	22	mm4333	Y	003 - 10.0
21	↓	ms	005	1.0	↓	↓	2	22	mm4334	Y	004 - 10.0 - np+ 5.0
22	↓	ms	005	1.0	↓	↓	3	22	mm4335	Y	008 - 10.0
23	BUL								mm4336	Y	005 - ms
24	↓								mm4337	Y	005 - ms
25	↓								mm4338		BUL
26									mm4339		↓
27									mm4340		↓

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary H₂O : 82139
 Primary OCC : 82129 * 10uL (2x) - NT's
 Primary Frt : 82140 5uL → 50mLs
 Primary HSL : 82773 = CCV
 Primary TB : 81995

200 Secondary Frt : 82155 - 5uL
 500 Secondary H₂O : 82570
 Secondary OCC : 82130 2uL
 Secondary TB : 82141
 Secondary HSL : 82142

- 10.0uL Combined IS/Surr 500 : 81952
 Surrogate
 Internal Std :
 50mL / 4.2uL
 42mL vial = ms 10

Instr. 12

Data Path: j:\acqdata\msvoa12\062915

LIMS Run#: 951047

Pos.	Sample	Diln.	Diln. Prep.	Client	RL	Tier	Vial	pH	File#	OK?	Comments
1	HIGH STD								mm4341		
2	BLK								mm4342		
3	TUNE (carbon 15 km)		RQ1507136 - 01						mm4343	YT	(auto) 10:02
4	CCV		02						mm4344	YC	
5	LCS		03						mm4345	YD	
6	VRLE		11						mm4346	①	not 4/6
7	↓		11						mm4347	①	↓
8	↓		04						mm4348	YB	
9	R1504910 - 010	1.0		~~██████~~	8855	2	1	22	mm4349	Y	
10	R1505119 - 001	100	1/100 mls	~~██████~~	13429	4	1	22	mm4350	①	not 2.0/5.0 (502)
11		005	1.0	↓	↓	↓	1	22	mm4351	Y	
12		006	1.0	↓	↓	↓	1	22	mm4352	②	not 10 (w/ same vial)
13		008	10	↓	↓	↓	1	22	mm4353	Y	
14	↓	006	10	↓	↓	↓	1	22	mm4354	②	DL
15	R1504910 - 008	50	1/50 mls	~~██████~~	8855	2	1	22	mm4355	②	not 1/100 (502)
16		009	50	↓	↓	↓	1	22	mm4356	Y	
17		003	1.0	↓	↓	↓	2	22	mm4357	Y	
18		002	10	↓	↓	↓	2	22	mm4358	②	DL
19	↓	004	10	↓	↓	↓	2	22	mm4359	②	DL
20	R15049416 - 004	5.0	10/50 mls	~~██████~~	13429	4	2	22	mm4360	Y	
21	R1505119 - 007	500	1/500 mls	↓	↓	↓	2	22	mm4361	②	DL
22		003	5.0	↓	↓	↓	2	22	mm4362	Y	
23		001	5.0	↓	↓	↓	2	22	mm4363	Y	
24	MS	001	5.0	RQ1507136 - 05			2	22	mm4364	YD	
25	↓ MS	001	5.0	↓ ↓	06		2	22	mm4365	YD	21:15 ✓
26	HIGH STD						-	-	mm4366	-	
27	BLK						-	-	mm4367	-	

EOD
 KR 6/29/15

All samples = 10 mL + 1 uL combined IS/Surr. 10 mL purged

Primary H80	82139	
Primary OCL	82129	
Primary Fr+	82140	5mL → 50mL
Primary T6	81995	= OCV
Primary HSL	81773	

200 Secondary Frt : 81715 - 5uL
500 Secondary H₂O : 81810
Secondary OCL : 82130 2uL
Secondary HSL : 82142
Secondary T₆ : 82141

50mLs = LCS
- 10.6uL
4.7uL
42mL vial = msl

Combined IS/Surr 500 : 81952
Surrogate :
Internal Std :

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