

LABORATORY REPORT

October 2, 2009

Brian Baker
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on September 4, 2009. For your reference, these analyses have been assigned our service request number P0903145.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 951 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-08-TX. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

Client: Environmental Health & Engineering, Inc.
Project: 16512

CAS Project No: P0903145

CASE NARRATIVE

The samples were received intact under chain of custody on September 4, 2009 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Volatile Organic Compound Analysis

The samples were analyzed for selected volatile organic compounds in accordance with EPA Method TO-15 from the Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition (EPA/625/R-96/010b), January, 1999. The analytical system was comprised of a gas chromatograph / mass spectrometer (GC/MS) interfaced to a whole-air preconcentrator.

The relative percent difference (RPD) criterion for several compounds, propene, trichloroethane, o-xylene, 1,4-dichlorobenzene and naphthalene, in the sample duplicate were outside control criteria possibly due to low volume in the canister. The sample duplicate was the 3rd analytical run taken from sample "102827". The sample was previously analyzed on September 15, 2009, but could not be reported due to failed QC. The results from both runs were comparable, therefore, no further corrective action was taken.

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0903145

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Bottle Order #
P0903145-001.01	102648	6.0 L-Summa Canister Ambient		0.1	3.5				AC01604	14338		
P0903145-002.01	102649	6.0 L-Summa Canister Ambient		0.1	3.5				AC01029	14338		
P0903145-003.01	102650	6.0 L-Summa Canister Ambient		0.3	3.5				AC01438	14338		
P0903145-004.01	102651	6.0 L-Summa Canister Ambient	-0.3	-0.1	3.5				AC01205	14339		
P0903145-005.01	102652	6.0 L-Summa Canister Ambient	0.0	0.0	3.5				AC00112	14339		
P0903145-006.01	102715	6.0 L-Summa Canister Ambient		0.1	3.5				AC01211	14339		
P0903145-007.01	102716	6.0 L-Summa Canister Ambient	-0.4	-0.2	3.6				AC00909	14339		
P0903145-008.01	102717	6.0 L-Summa Canister Ambient	0.0	0.0	3.5				AC01142	14339		
P0903145-009.01	102718	6.0 L-Summa Canister Ambient	-0.5	-0.2	3.5				AC01042	14339		
P0903145-010.01	102719	6.0 L-Summa Canister Ambient		0.1	3.5				AC00906	14339		
P0903145-011.01	102720	6.0 L-Summa Canister Ambient	-28.5	-14.0	3.0				AC00949	14339		
P0903145-012.01	102826	6.0 L-Summa Canister Ambient		0.3	3.5				AC01424	14339		
P0903145-013.01	102827	6.0 L-Summa Canister Ambient		0.1	3.5				AC01627	14339		
P0903145-014.01	102828	6.0 L-Summa Canister Ambient		0.4	3.6				AC01101	14340		
P0903145-015.01	102829	6.0 L-Summa Canister Ambient		0.4	3.5				AC01347	14340		
P0903145-016.01	102830	6.0 L-Summa Canister Ambient	-0.5	-0.2	3.5				AC01282	14340		

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0903145

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>P1 (Hg)</u>	<u>P1 (psig)</u>	<u>Pf1</u>	<u>P12 (Hg)</u>	<u>P12 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
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Miscellaneous Items - received

AVG00522
FC00611
AVG01123
FC00509
FC00421
FC00319
AVG01090
AVG00561
AVG00462
AVG00563
FC00251
FC00789
AVG01151
AVG01152
FC00306
AVG00993
AVG00875
FC00196
AVG00974
AVG00988
AVG01086
AVG01032
FC00330
FC00404
FC00631
FC00569
FC00215
AVG01016
FC00419
AVG00940

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0903145

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1</u> (Hg)	<u>Pi1</u> (psig)	<u>Pi2</u> (Hg)	<u>Pi2</u> (psig)	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle</u> <u>Order #</u>
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FC00526
FC00204

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725 P0903145

TO: Columbia Analytical

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 16512
The cost of this analysis will be covered by EH&E Purchase Order # 16512
For EH & E Data Coordinator - URGENT DATA

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER		OTHER: Time/Date/Vol.
0.1 102648	① AIR	TO-15	Full List VOCs	8/31/09 120mins
0.1 102649	② ↓			
-0.3 102650	③ ↓			
0.3 102651	④ ↓			
0.0 102652	⑤ ↓			
0.1 102715	⑥ AIR	TO-15	Full List VOCs	09/01/09 120mins
0.4 102716	⑦ ↓			
0.0 102717	⑧ ↓			
0.5 102718	⑨ ↓			
0.1 102719	⑩ ↓			
0.5 102720	⑪ ↓			0mins
0.3 102826	⑫ AIR	TO-15	Full List VOCs	09/02/09 120mins
0.1 102827	⑬ ↓			
-0.4 102828	⑭ ↓			
0.4 102829	⑮ ↓			
0.5 102830	⑯ ↓			

Special instructions:

- Standard turn around time
- Rush by _____ date/time
- Other _____
- Fax results 781-247-4305
- RETURN SAMPLES
- Electronic transfer - datacoordinator@ehinc.com
- Additional report recipient tminegishi@ehinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 09/02/09
 Received by: FEDEx of (company name) Date: _____
 Relinquished by: FEDEx of (company name) Date: _____
 Received by: [Signature] of (company name) CAS Date: 09/04/09 1000
 Relinquished by: _____ of (company name) Date: _____
 Received by: _____ of (company name) Date: _____
 Lab Data
 Received by: _____ of Environmental Health & Engineering, Inc. Date: _____

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Environmental Health & Engineering, Inc.

Work order: P0903145

Project: Project # 16512 / 16512

Sample(s) received on: 9/4/09

Date opened: 9/4/09

by: ADAVID

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

- | | Yes | No | N/A |
|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 Container(s) supplied by CAS ? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 Was a trip blank received? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Trip blank supplied by CAS: _____ | | | |
| 11 Were custody seals on outside of cooler/Box? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s) _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were custody seals on outside of sample container? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Location of seal(s) _____ Sealing Lid? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were signature and date included? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were seals intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 12 Do containers have appropriate preservation , according to method/SOP or Client specified information? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Is there a client indication that the submitted samples are pH preserved? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Were VOA vials checked for presence/absence of air bubbles? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 13 Tubes: Are the tubes capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 Badges: Are the badges properly capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are dual bed badges separated and individually capped and intact? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0903145-001.01	6.0 L Ambient Can					
P0903145-002.01	6.0 L Ambient Can					
P0903145-003.01	6.0 L Ambient Can					
P0903145-004.01	6.0 L Ambient Can					
P0903145-005.01	6.0 L Ambient Can					
P0903145-006.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____

Chain of Custody is missing time collected _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); RSK - MEBPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102648
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01604

CAS Project ID: P0903145
CAS Sample ID: P0903145-001

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.8	0.62	1.0	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.62	0.59	0.12	
74-87-3	Chloromethane	0.59	0.12	0.28	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	99	6.2	53	3.3	
75-05-8	Acetonitrile	70	0.62	42	0.37	
107-02-8	Acrolein	3.6	0.62	1.6	0.27	
67-64-1	Acetone	49	6.2	21	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.8	0.62	2.4	0.25	M1
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.70	0.12	0.091	0.016	
75-15-0	Carbon Disulfide	ND	0.62	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	4.5	0.62	1.5	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102648
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01604

CAS Project ID: P0903145
CAS Sample ID: P0903145-001

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

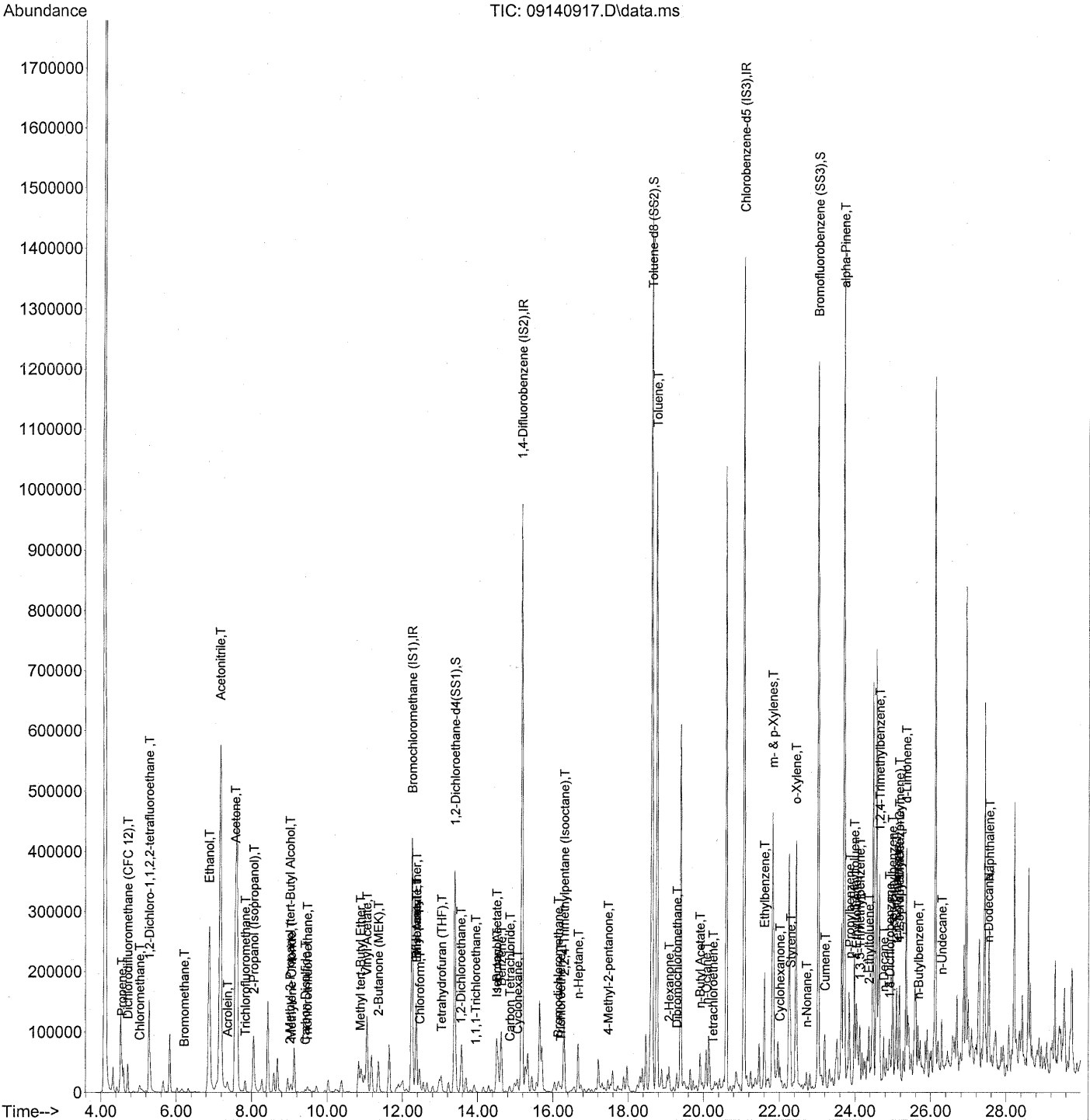
CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	1.6	0.62	0.46	0.17	
110-54-3	n-Hexane	6.9	0.62	2.0	0.17	
67-66-3	Chloroform	2.6	0.12	0.54	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.62	ND	0.21	
107-06-2	1,2-Dichloroethane	1.0	0.12	0.25	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	3.8	0.12	1.2	0.039	
56-23-5	Carbon Tetrachloride	0.62	0.12	0.098	0.020	
110-82-7	Cyclohexane	1.0	0.62	0.29	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	0.77	0.12	0.11	0.018	
79-01-6	Trichloroethene	0.22	0.12	0.040	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	2.8	0.62	0.68	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	0.85	0.62	0.21	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	24	0.62	6.3	0.16	
591-78-6	2-Hexanone	1.6	0.62	0.39	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	2.2	0.62	0.47	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:16:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648 ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:16:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

LM 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	272658	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.17	114	1315014	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	557364	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	369915	24.618	ng	-0.03
Spiked Amount	25.000			Recovery =	98.48%	✓
57) Toluene-d8 (SS2)	18.63	98	1381563	24.763	ng	-0.01
Spiked Amount	25.000			Recovery =	99.04%	✓
73) Bromofluorobenzene (SS3)	23.02	174	527488	26.384	ng	0.00
Spiked Amount	25.000			Recovery =	105.52%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	16050m	1.446 ng		
3) Dichlorodifluoromethan...	4.72	85	50146	2.362 ng		99
4) Chloromethane	5.03	50	8295	0.477 ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1199	0.094 ng		69
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	382	N.D.		
8) Bromomethane	6.22	94	727	0.066 ng	#	77
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.88	45	648083m	80.516 ng		
11) Acetonitrile	7.17	41	1162840	57.121 ng		99
12) Acrolein	7.36	56	17704	2.956 ng		97
13) Acetone	7.57	58	323704	39.919 ng		100
14) Trichlorofluoromethane	7.83	101	22112	1.125 ng		100
15) 2-Propanol (Isopropanol)	8.06	45	131150m	4.696 ng	M	
16) Acrylonitrile	8.34	53	598	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.01	59	4301	0.149 ng	#	64
19) Methylene Chloride	9.05	84	5319	0.430 ng		82
20) 3-Chloro-1-propene (Al...	9.22	41	220	N.D.		
21) Trichlorotrifluoroethane	9.48	151	5511	0.569 ng	#	83
22) Carbon Disulfide	9.42	76	11262	0.263 ng		93
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.88	73	2019	0.065 ng		95
26) Vinyl Acetate	11.05	86	4154	1.701 ng	#	1
27) 2-Butanone (MEK)	11.36	72	28224	3.623 ng	#	74
28) cis-1,2-Dichloroethene	12.01	61	221	N.D.		
29) Diisopropyl Ether	12.36	87	1597	0.177 ng	#	1
30) Ethyl Acetate	12.37	61	5297	1.339 ng		78
31) n-Hexane	12.36	57	87829	5.607 ng		95

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:16:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	12.45	83	41098	2.139 ng	99
34) Tetrahydrofuran (THF)	13.03	72	1864	0.259 ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.55	62	10848	0.819 ng	99
38) 1,1,1-Trichloroethane	13.94	97	1181	0.071 ng	78
39) Isopropyl Acetate	14.50	61	656	0.090 ng	# 1
40) 1-Butanol	14.51	56	88010	7.418 ng	87
41) Benzene	14.63	78	144233	3.075 ng	99
42) Carbon Tetrachloride	14.85	117	7069	0.501 ng	98
43) Cyclohexane	15.06	84	13905	0.813 ng	91
44) tert-Amyl Methyl Ether	15.64	73	1562	N.D.	
45) 1,2-Dichloropropane	15.57	63	327	N.D.	
46) Bromodichloromethane	16.14	83	9034	0.622 ng	# 72
47) Trichloroethene	16.21	130	2483	0.176 ng	92
48) 1,4-Dioxane	16.19	88	66	N.D.	
49) 2,2,4-Trimethylpentane...	16.30	57	151417	3.205 ng	98
50) Methyl Methacrylate	16.49	100	116	N.D.	
51) n-Heptane	16.66	71	27007	2.257 ng	92
52) cis-1,3-Dichloropropene	17.20	75	53	N.D.	
53) 4-Methyl-2-pentanone	17.46	58	7255	0.694 ng	92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	18.76	91	1005834	19.312 ng	99
59) 2-Hexanone	19.08	43	32720	1.303 ng	95
60) Dibromochloromethane	19.29	129	683	0.053 ng	93
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	19.91	43	51811	1.802 ng	94
63) n-Octane	20.07	57	12911	1.321 ng	91
64) Tetrachloroethene	20.25	166	1821	0.113 ng	91
65) Chlorobenzene	21.13	112	555	N.D.	
66) Ethylbenzene	21.60	91	187590	3.280 ng	97
67) m- & p-Xylenes	21.82	91	477345	10.679 ng	95
68) Bromoform	21.93	173	105	N.D.	
69) Styrene	22.29	104	54222	1.477 ng	96
70) o-Xylene	22.44	91	169853	3.719 ng	93
71) n-Nonane	22.71	43	11693	0.527 ng	89
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d	
74) Cumene	23.20	105	52414	0.838 ng	99
75) alpha-Pinene	23.70	93	735881	25.049 ng	96
76) n-Propylbenzene	23.85	91	50587	0.692 ng	# 79
77) 3-Ethyltoluene	23.97	105	149239	2.526 ng	99
78) 4-Ethyltoluene	24.03	105	71536	1.226 ng	99
79) 1,3,5-Trimethylbenzene	24.12	105	53359	1.099 ng	94

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:16:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

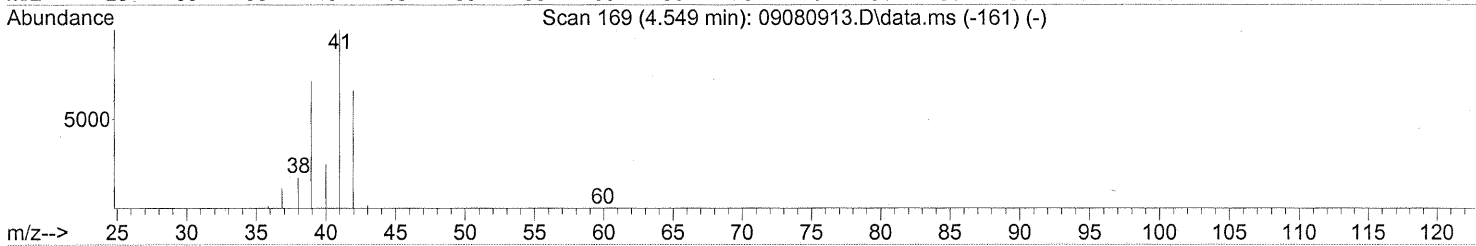
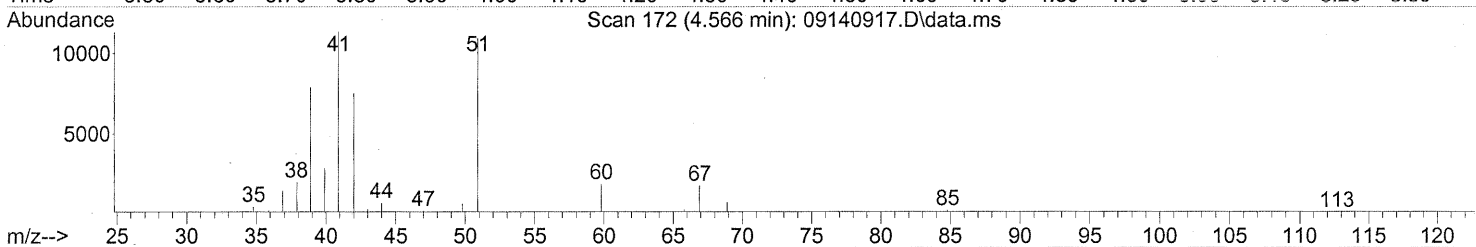
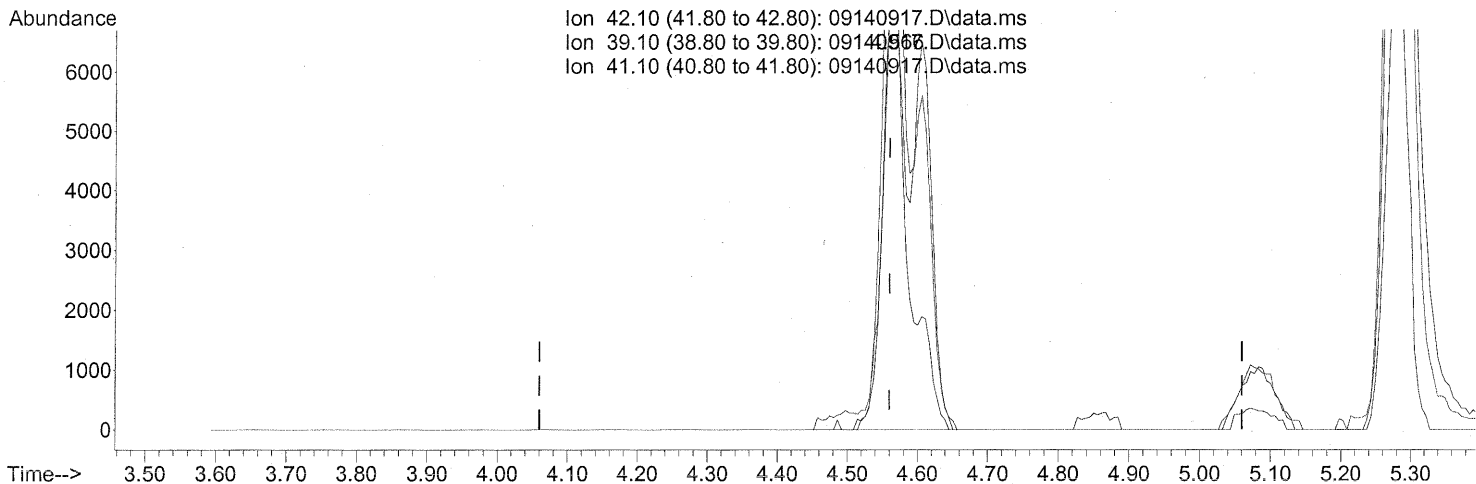
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	1256	N.D.		
81) 2-Ethyltoluene	24.36	105	53945	0.871 ng		98
82) 1,2,4-Trimethylbenzene	24.64	105	208647	4.029 ng		93
83) n-Decane	24.75	57	30848	1.138 ng		72
84) Benzyl Chloride	24.80	91	801	N.D.		
85) 1,3-Dichlorobenzene	24.91	146	2378	0.079 ng		92
86) 1,4-Dichlorobenzene	24.91	146	2378	0.076 ng		92
87) sec-Butylbenzene	24.97	105	5740	0.085 ng	#	24
88) 4-Isopropyltoluene (p-...	25.16	119	41602	0.633 ng		93
89) 1,2,3-Trimethylbenzene	25.16	105	60755	1.198 ng		97
90) 1,2-Dichlorobenzene	25.33	146	1284	N.D.		
91) d-Limonene	25.34	68	109744	5.899 ng		80
92) 1,2-Dibromo-3-Chloropr...	26.29	157	62	N.D.		
93) n-Undecane	26.29	57	29499	0.943 ng		72
94) 1,2,4-Trichlorobenzene	27.39	180	294	N.D.		
95) Naphthalene	27.53	128	181906	2.418 ng		98
96) n-Dodecane	27.52	57	26600	0.863 ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.01	55	19836	1.029 ng	#	83
99) tert-Butylbenzene	25.09	119	9089	0.178 ng		93
100) n-Butylbenzene	25.67	91	24170	0.465 ng	#	60

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.566min (+0.006) 1.66ng

SH

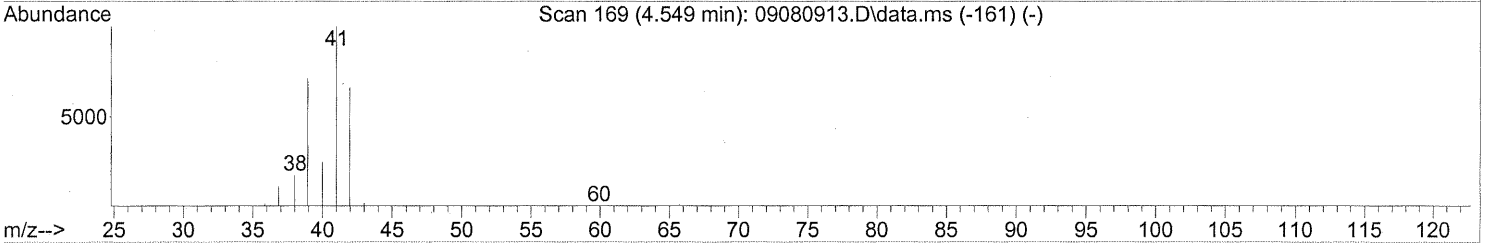
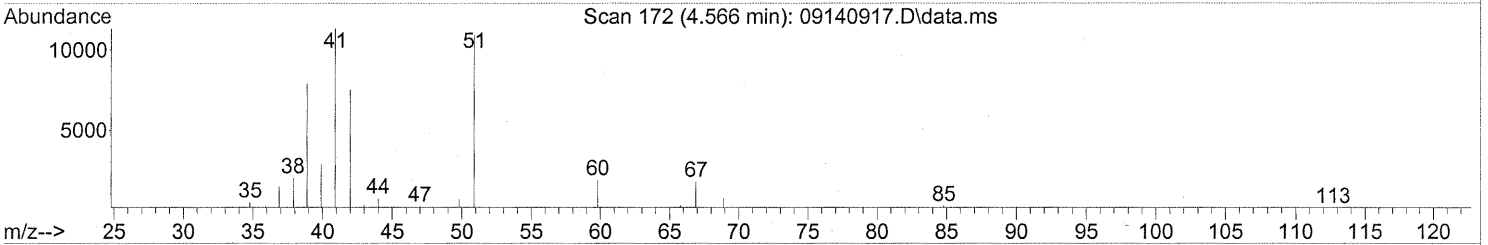
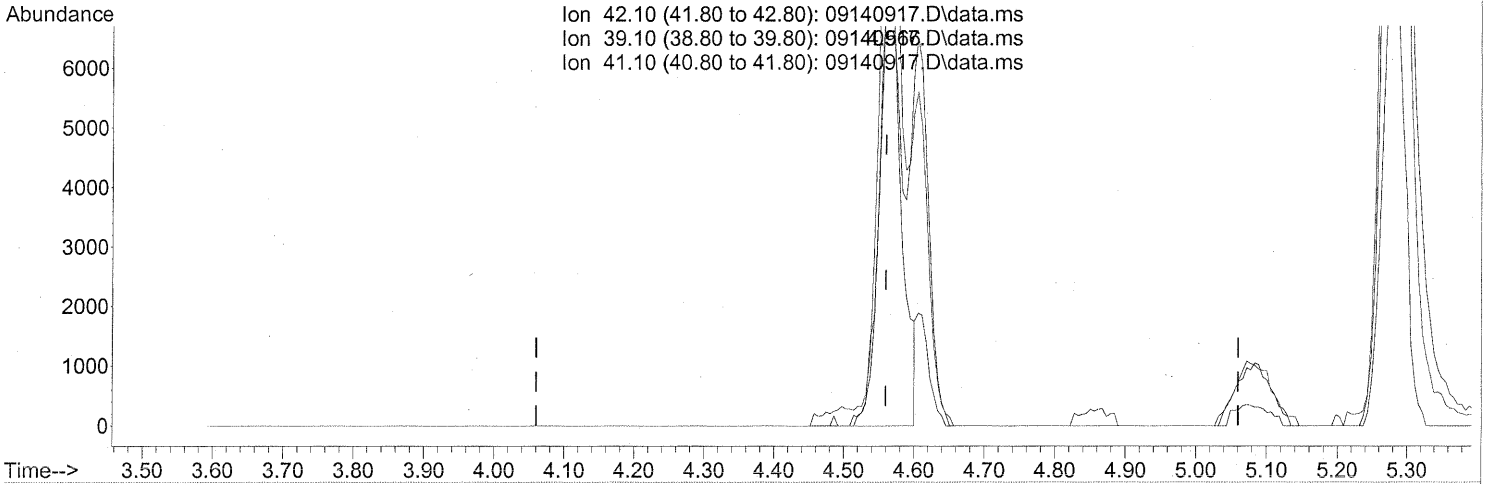
response 18418

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	90.09
41.10	152.10	132.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
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 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(2) Propene (T)

4.566min (+0.006) 1.45ng m

response 16050

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	103.38
41.10	152.10	152.05
0.00	0.00	0.00

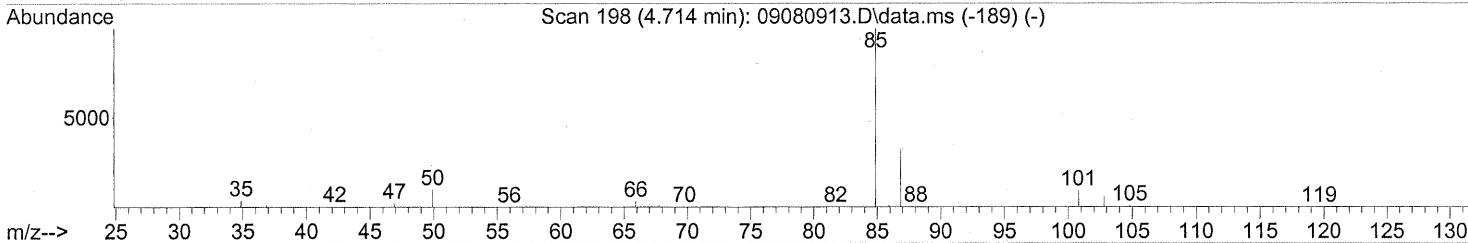
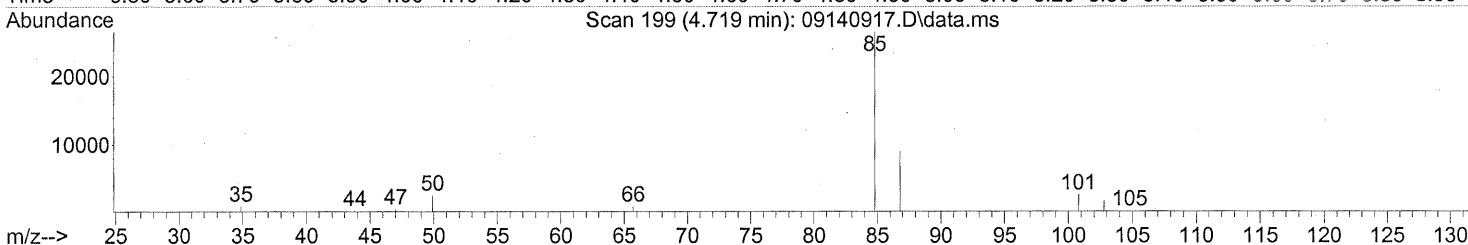
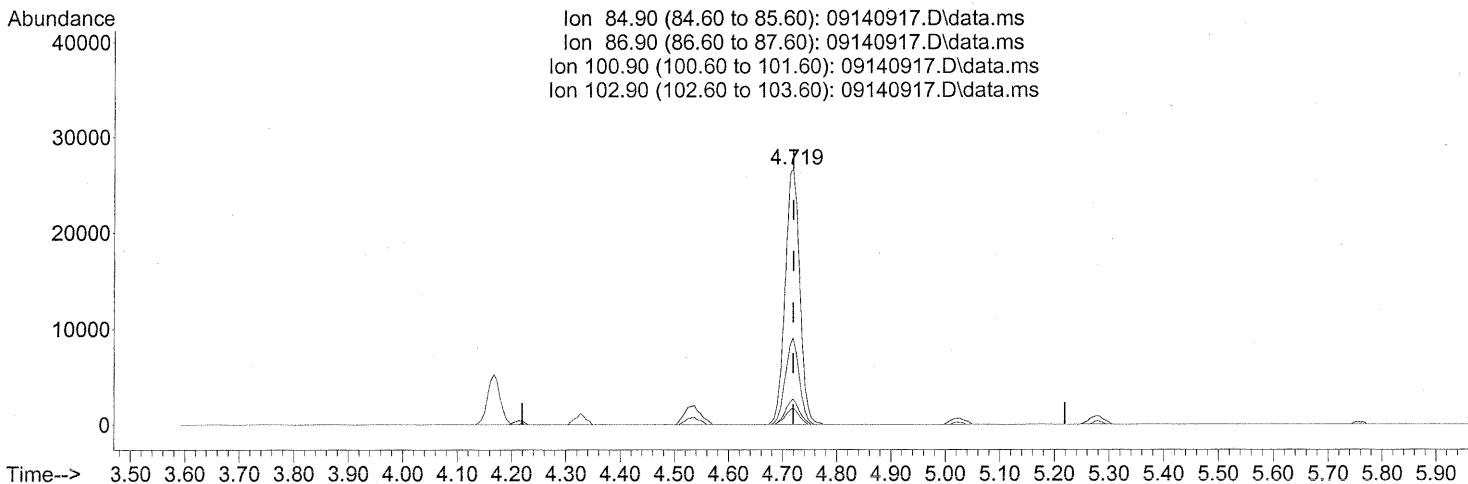
SH → IC
 LH 9/18/09

SA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (-0.000) 2.36ng

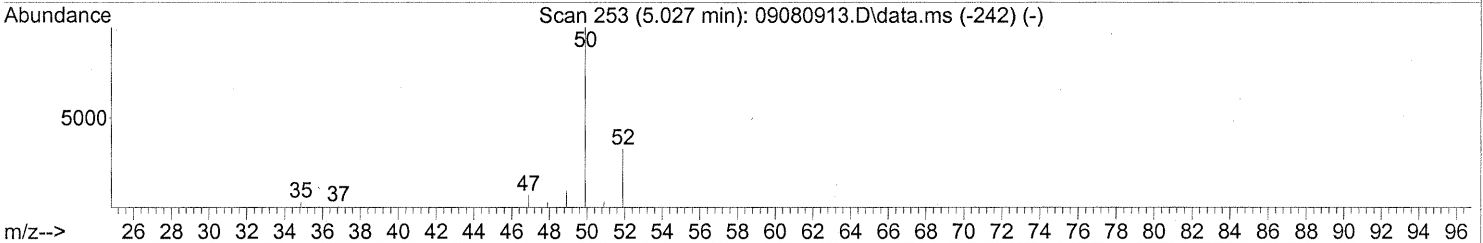
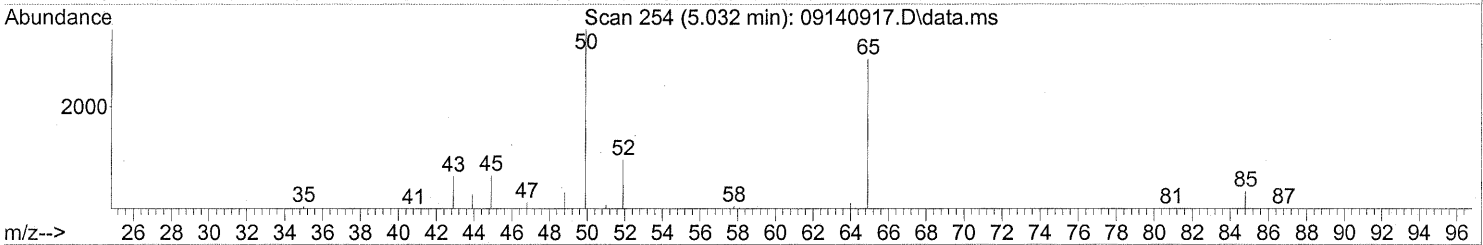
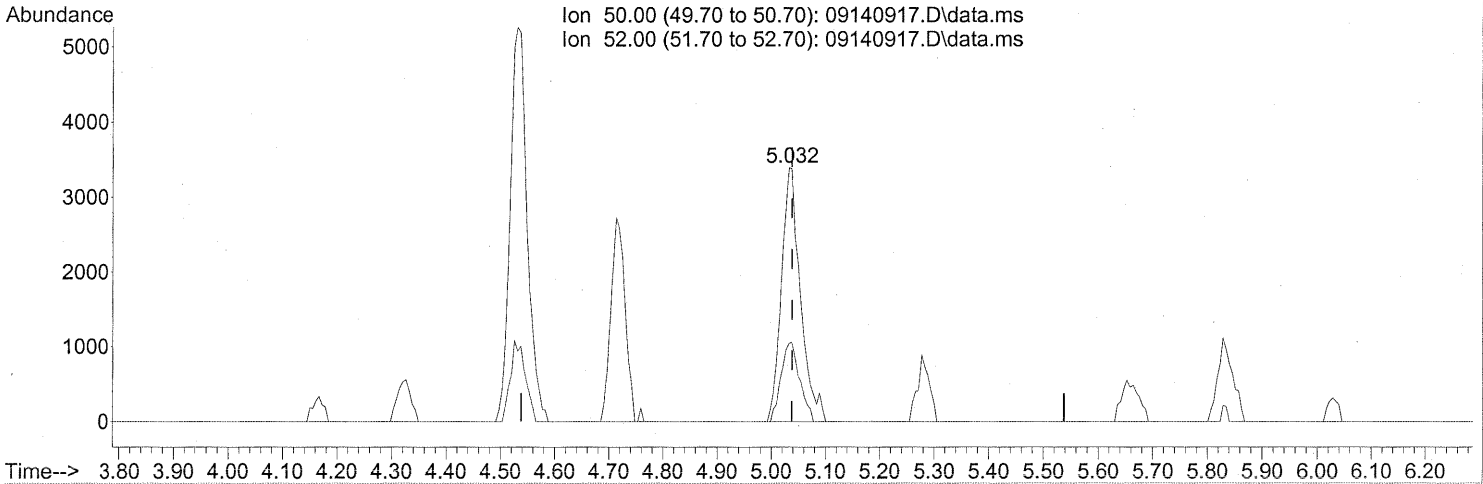
response 50146

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.29
100.90	8.60	9.39
102.90	5.90	5.87

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(4) Chloromethane (T)

5.032min (-0.006) 0.48ng

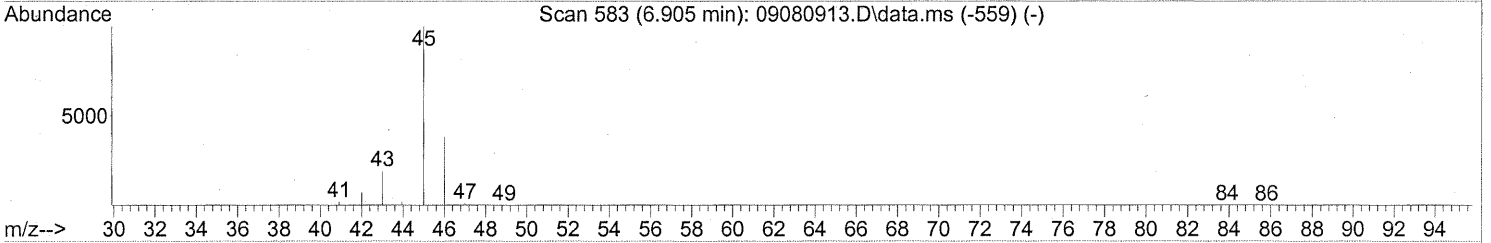
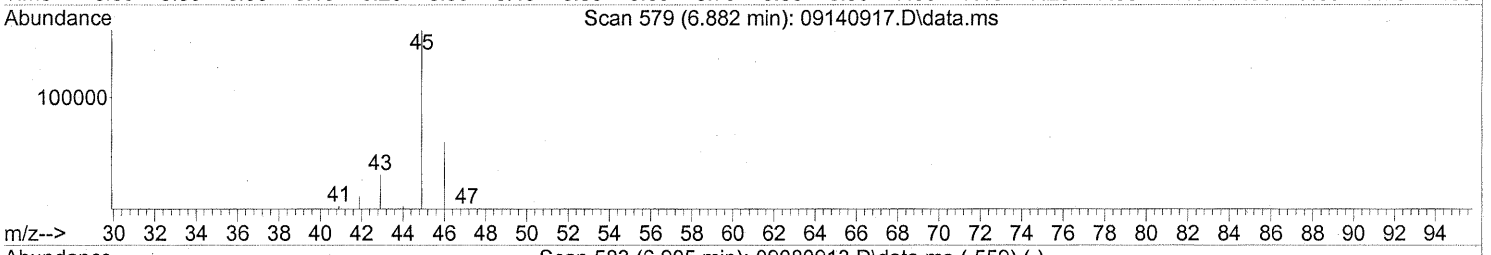
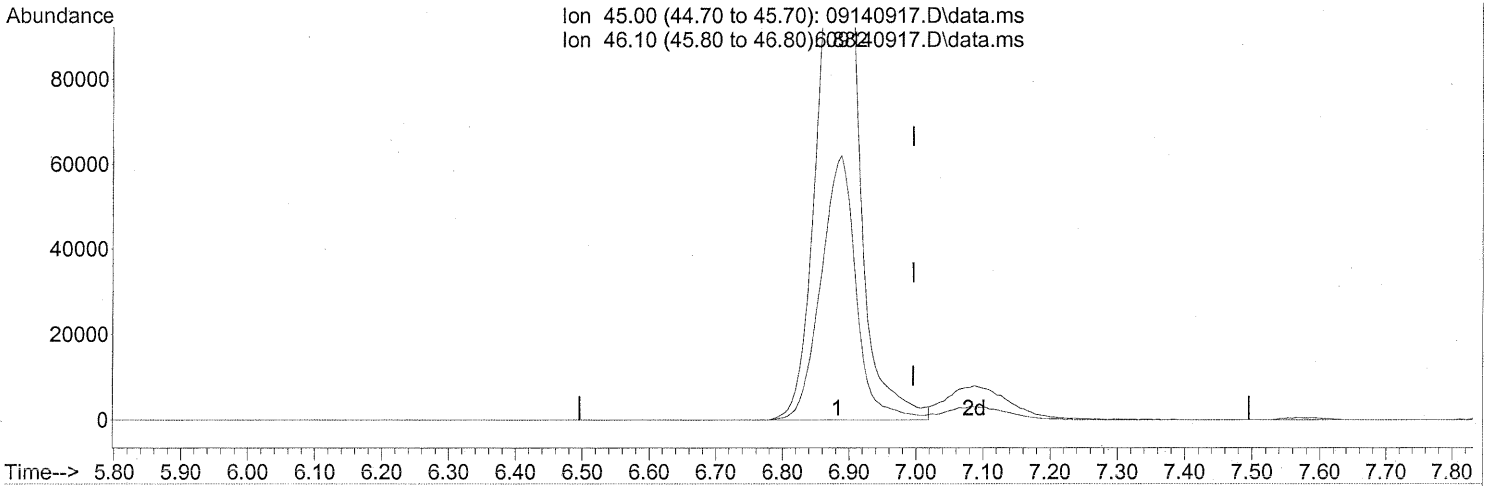
response 8295

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	30.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140917.D
Acq On : 14 Sep 2009 17:14
Operator : LH
Sample : P0903145-001 (1000mL)
Misc : Environmental H & E 102648
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09140917.D\data.ms

(10) Ethanol (T)
6.882min (-0.114) 74.05ng
response 596040

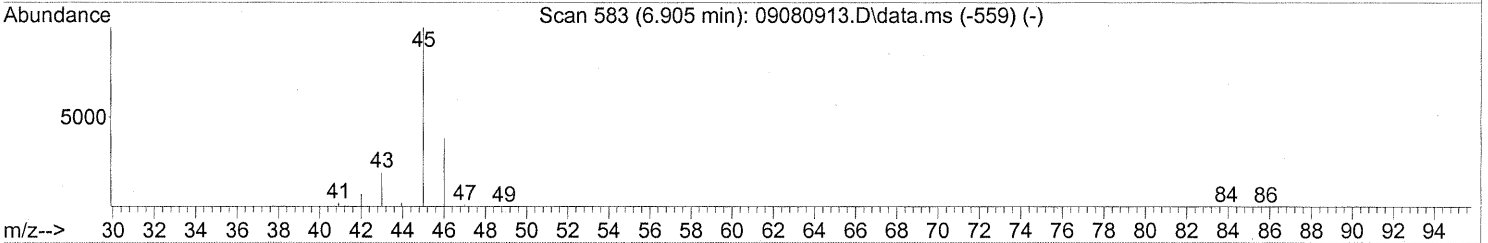
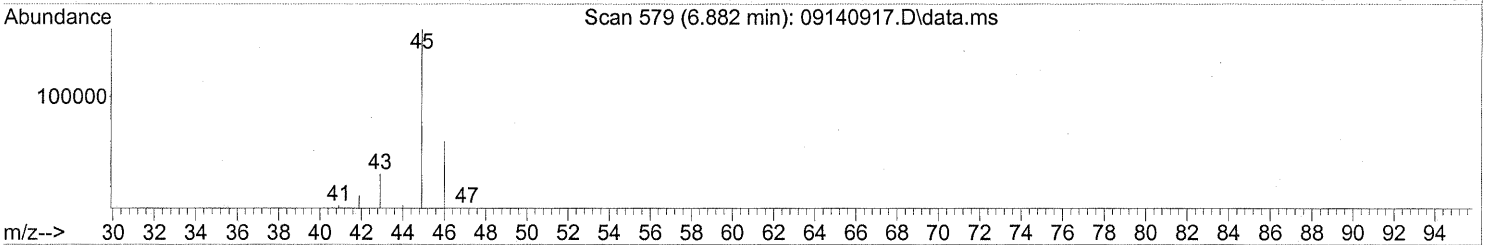
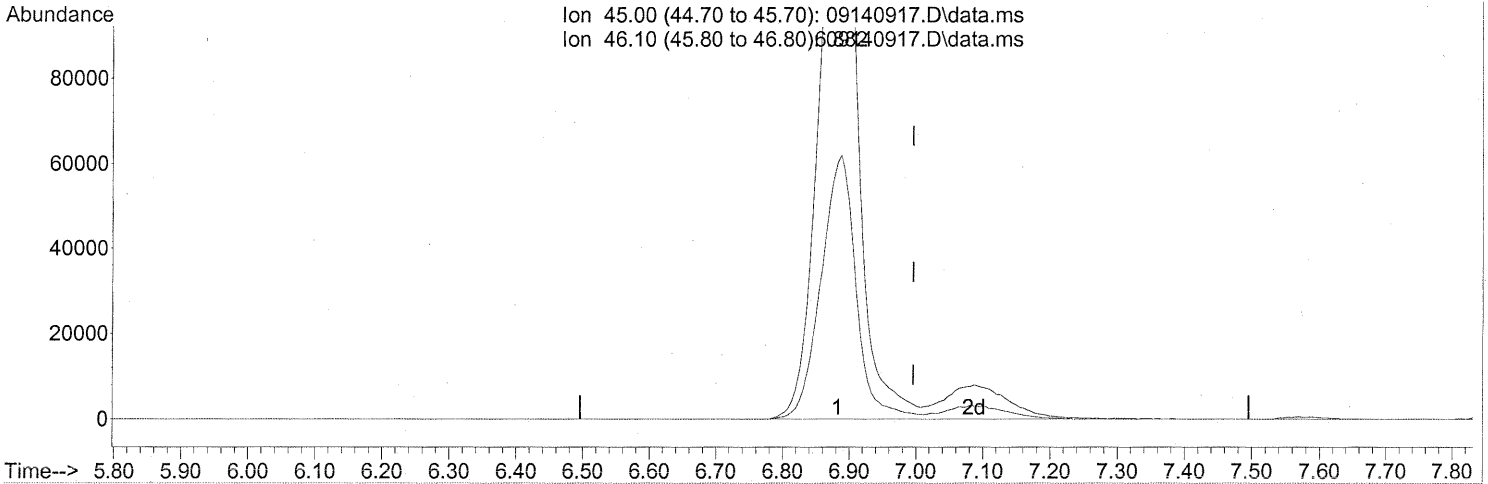
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.29
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.882min (-0.114) 80.52ng m
 response 648083

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.21
0.00	0.00	0.00
0.00	0.00	0.00

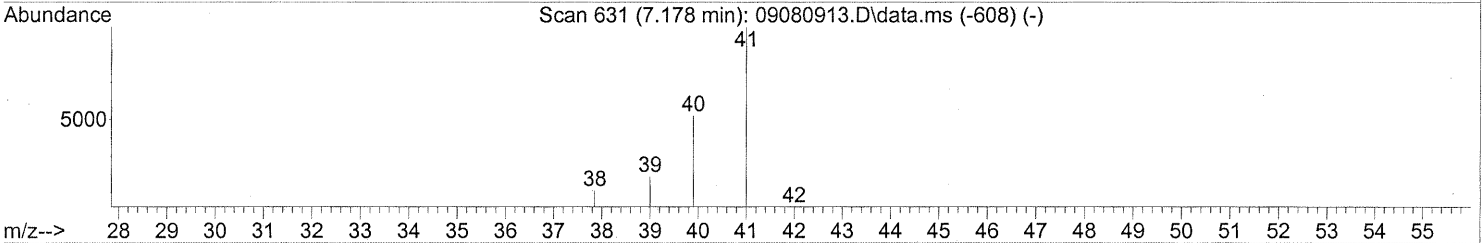
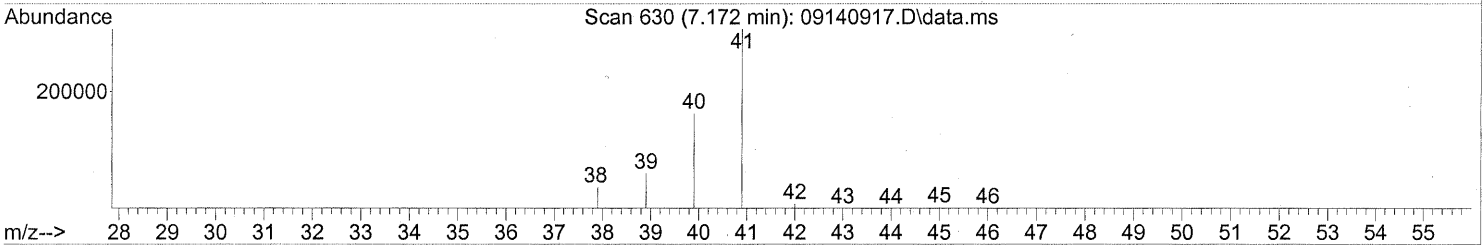
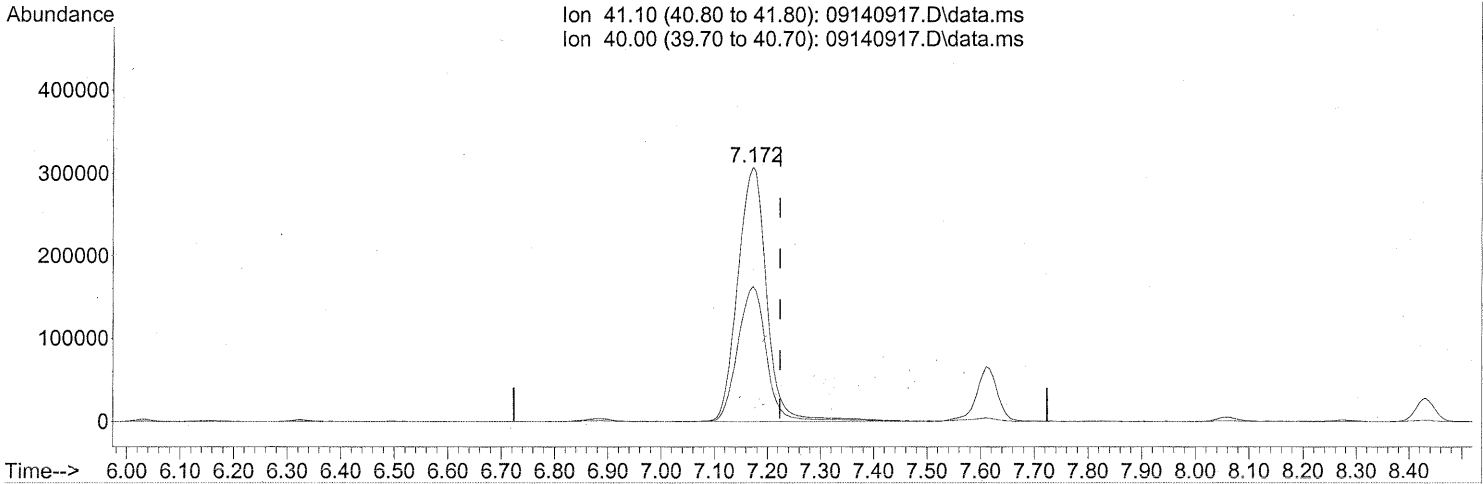
PT → IC
in 9/18/09

PT 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

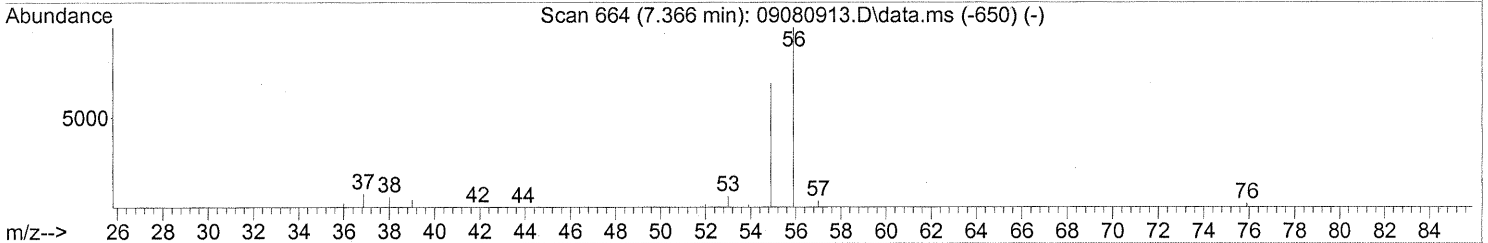
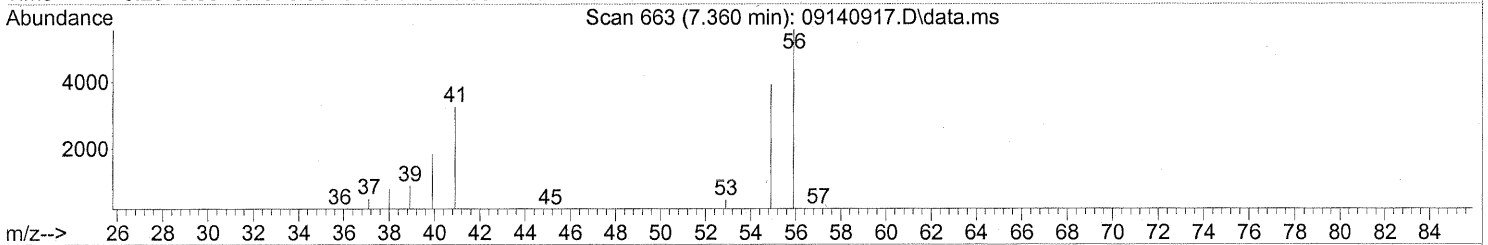
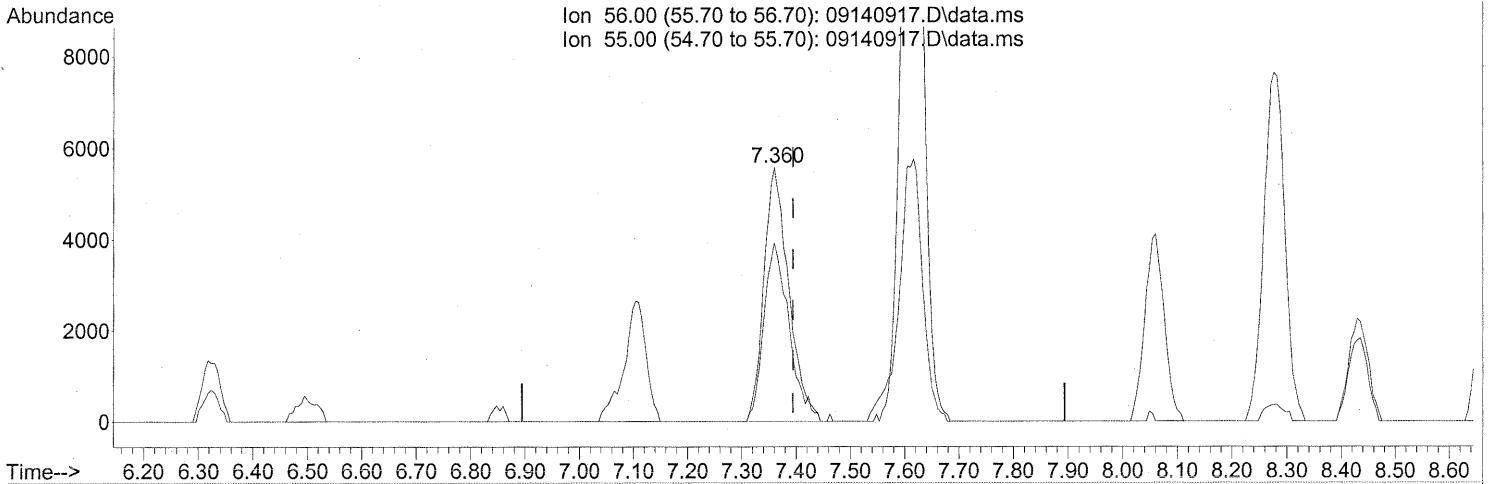
(11) Acetonitrile (T)
 7.172min (-0.051) 57.12ng
 response 1162840

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(12) Acrolein (T)

7.360min (-0.034) 2.96ng

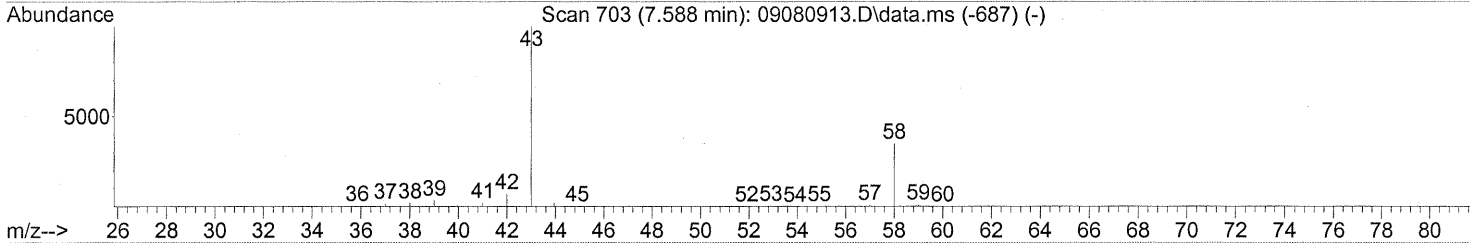
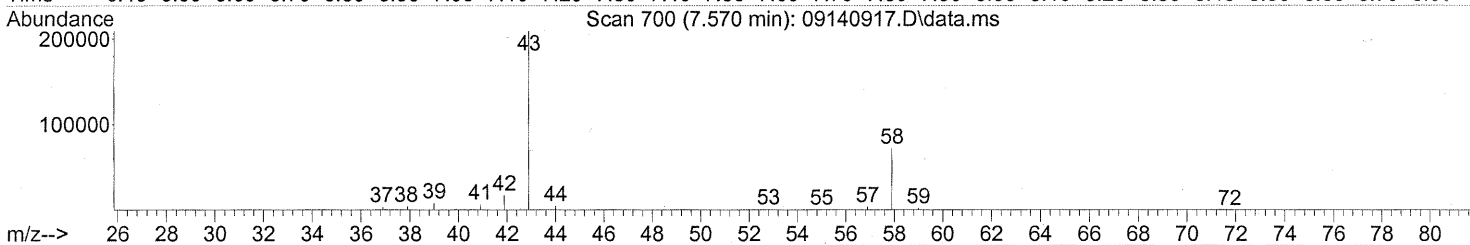
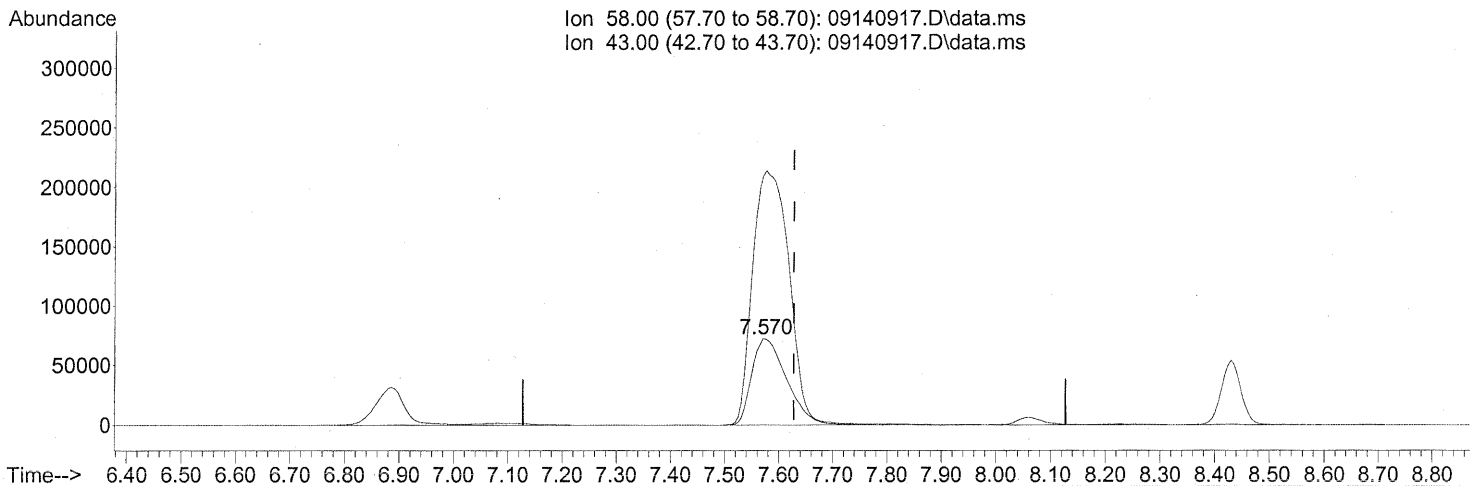
response 17704

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	71.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
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 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



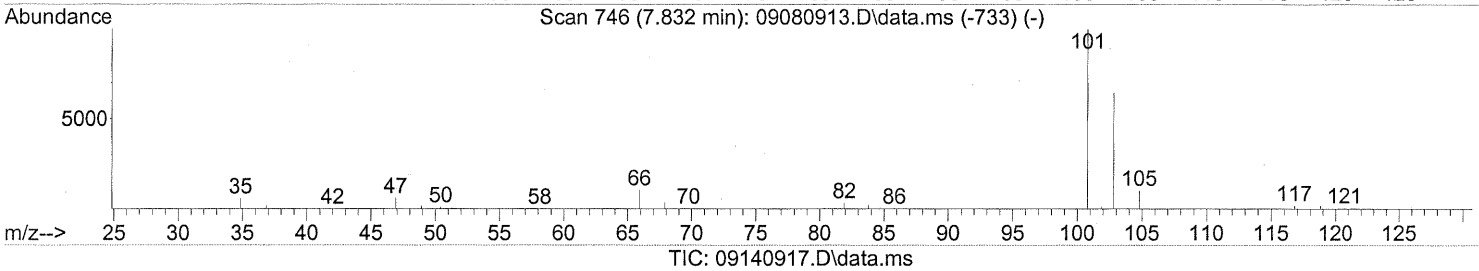
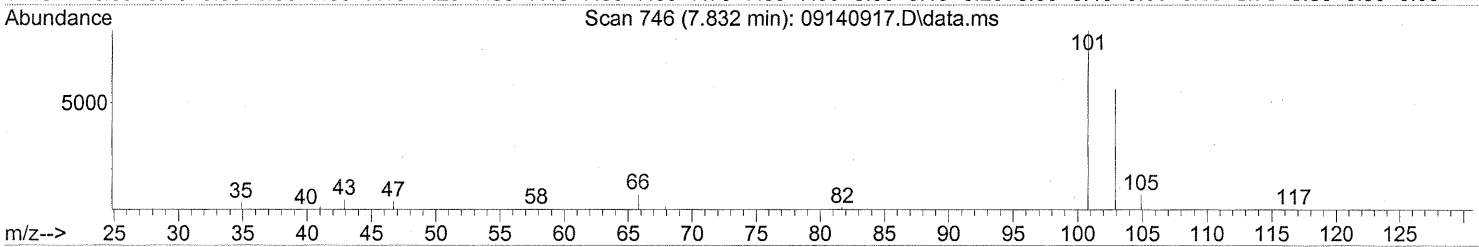
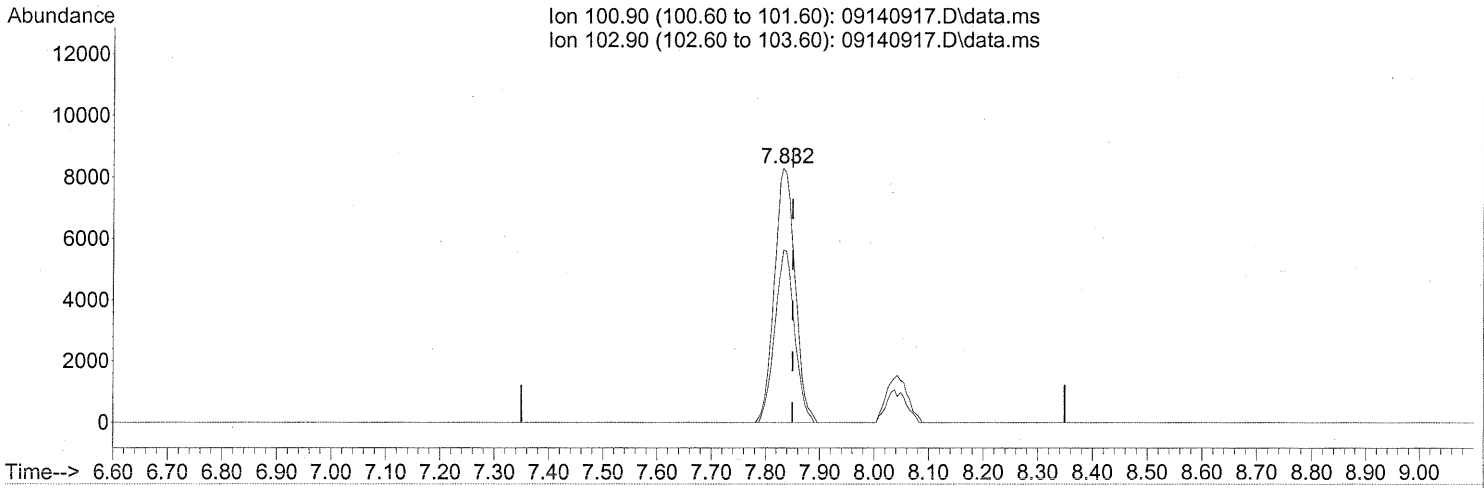
(13) Acetone (T)
 7.570min (-0.057) 39.92ng
 response 323704

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	310.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

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 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(14) Trichlorofluoromethane (T)

7.832min (-0.017) 1.12ng

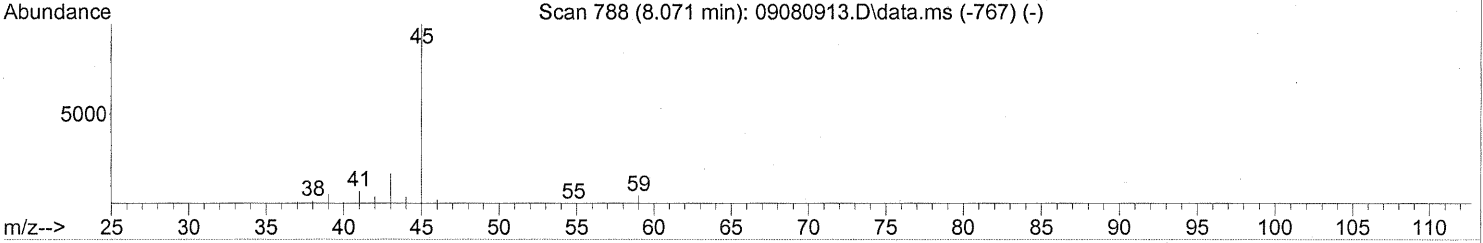
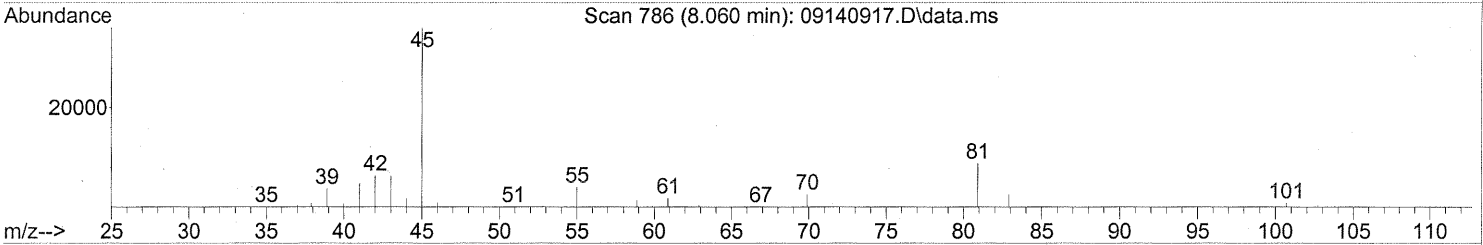
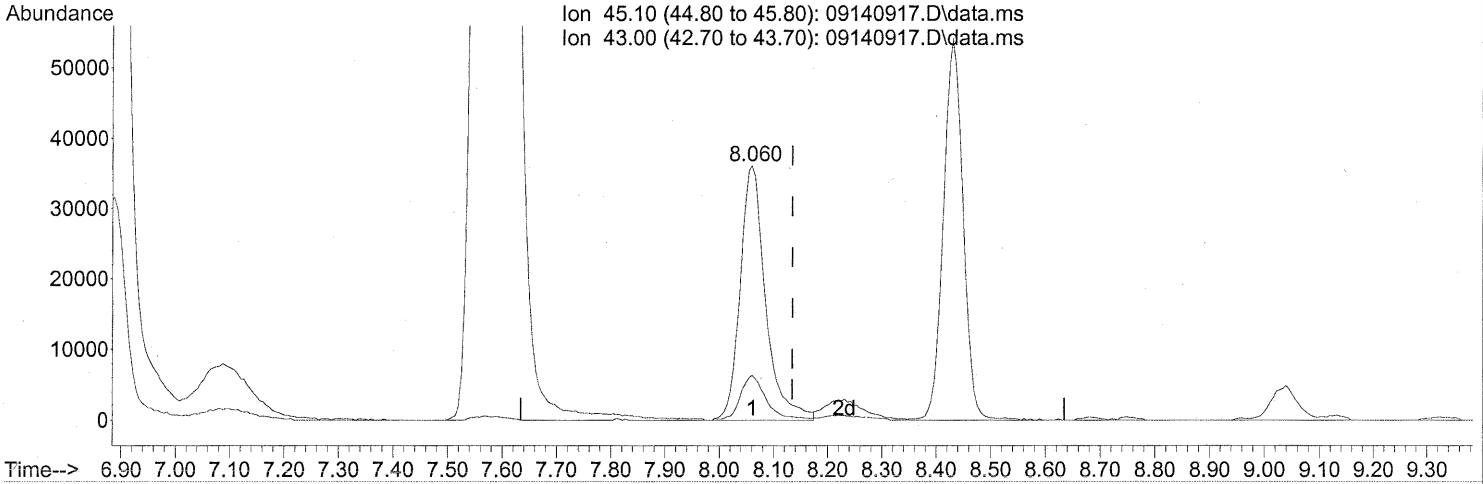
response 22112

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.18ng

response 116790

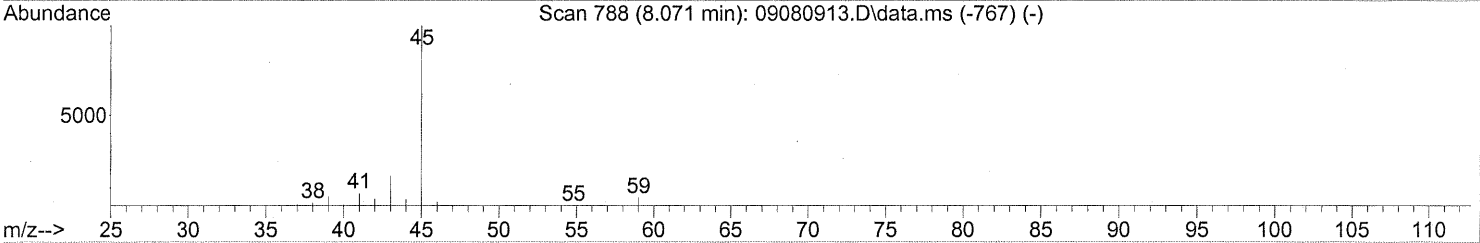
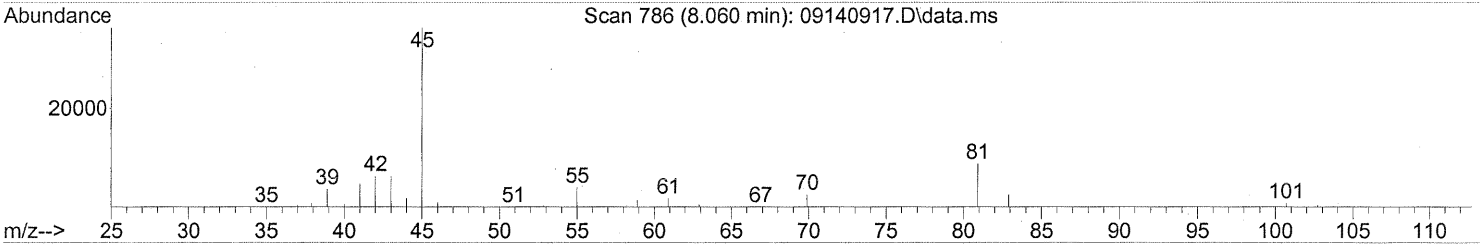
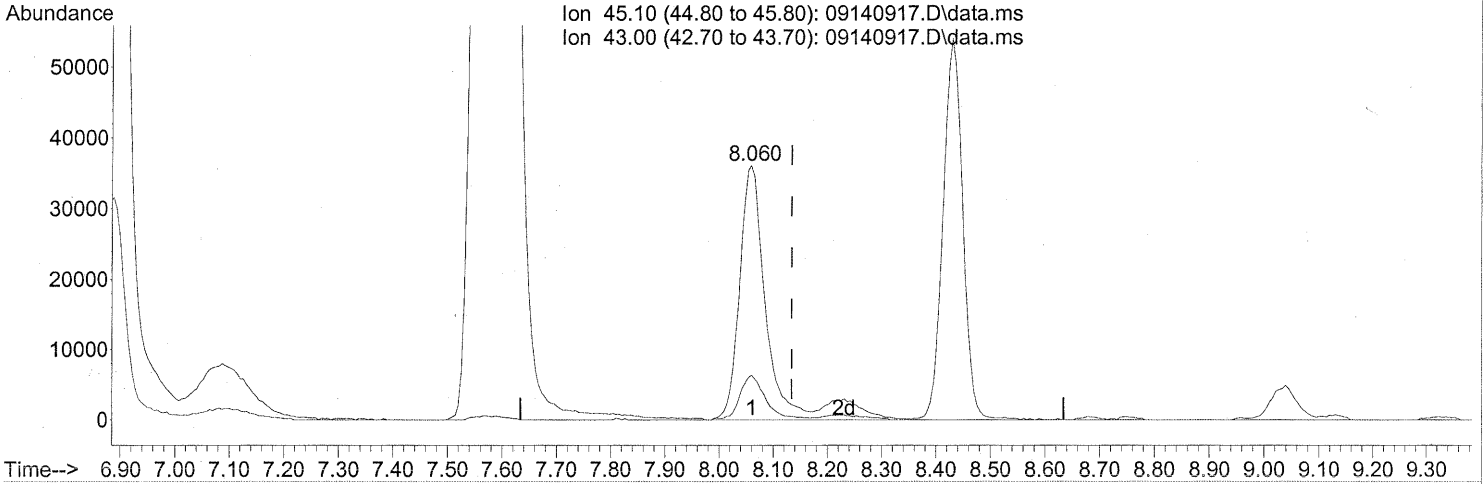
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	18.07
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.70ng m

response 131150

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.09
0.00	0.00	0.00
0.00	0.00	0.00

M

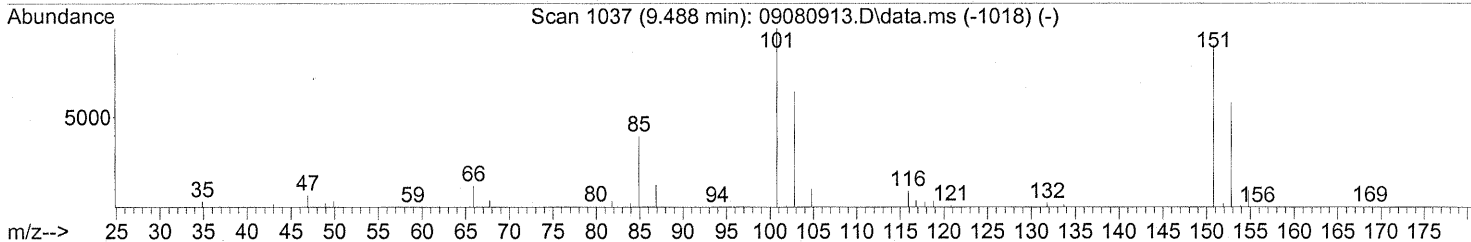
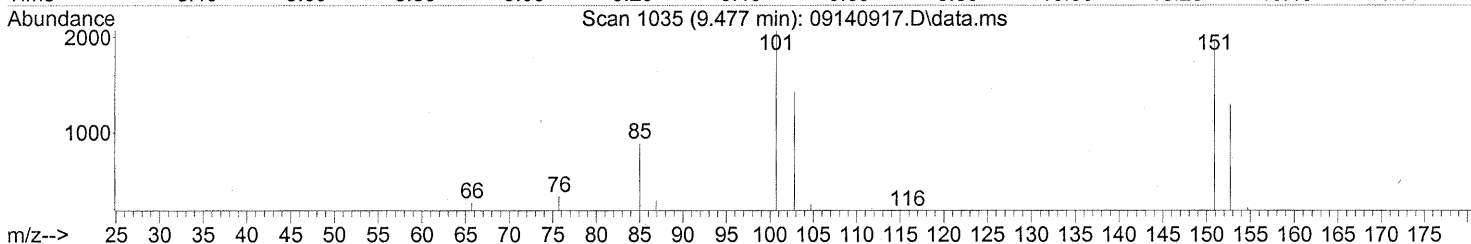
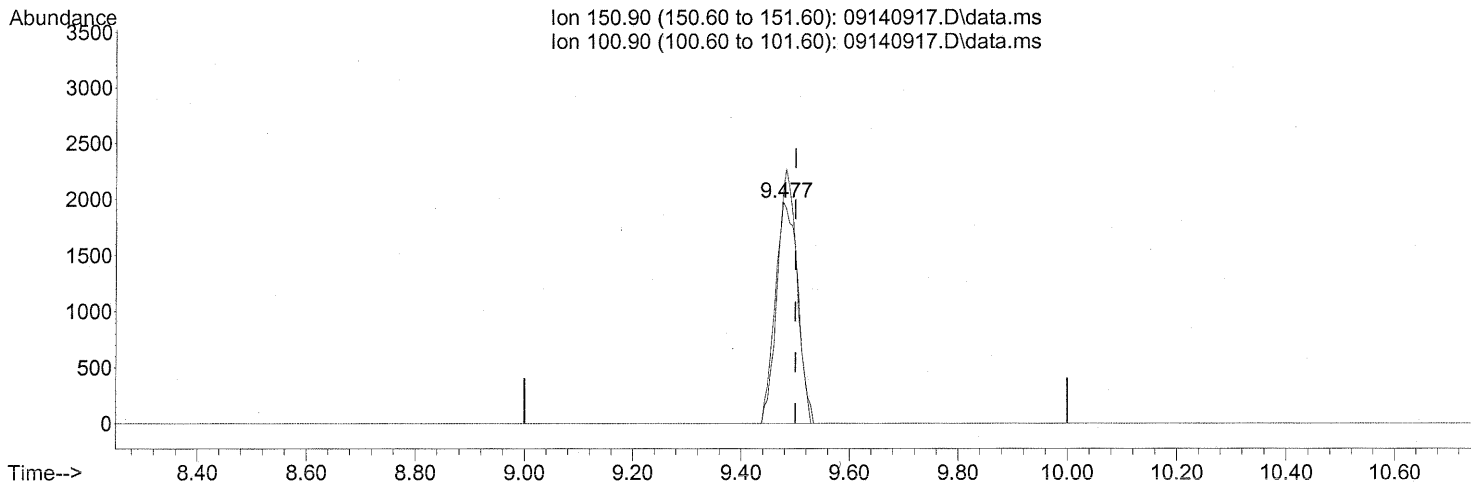
PT → IC
 LH 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 15 09:01:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.477min (-0.023) 0.57ng

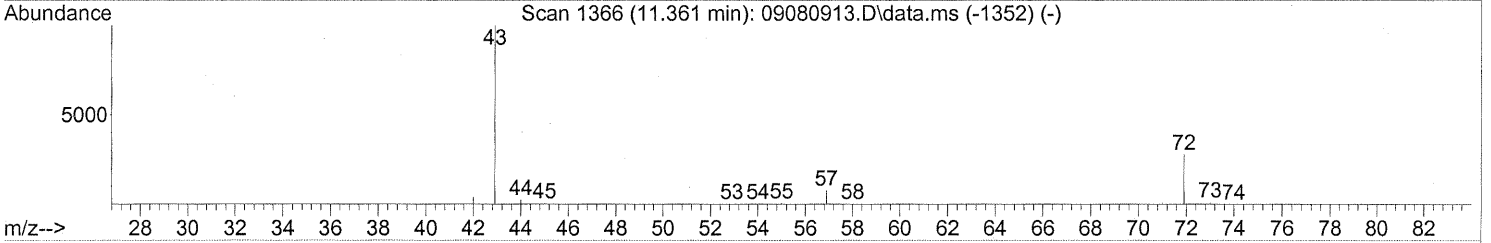
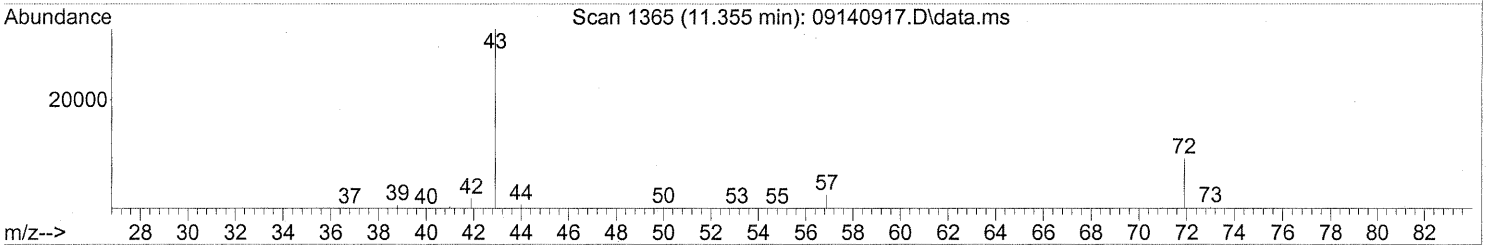
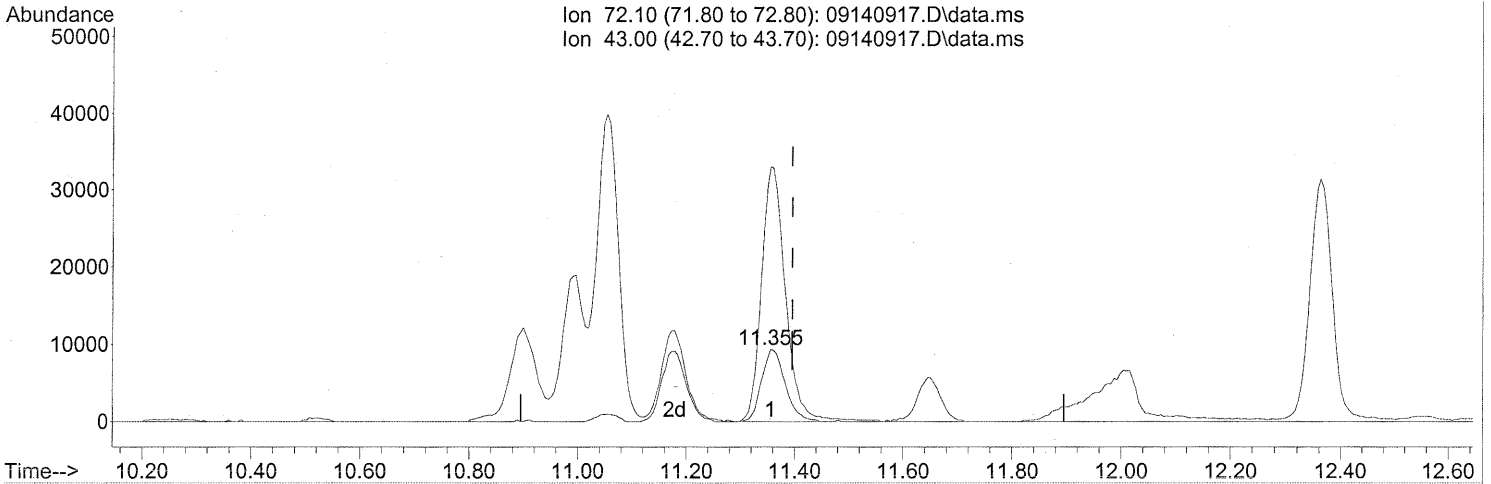
response 5511

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	108.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(27) 2-Butanone (MEK) (T)

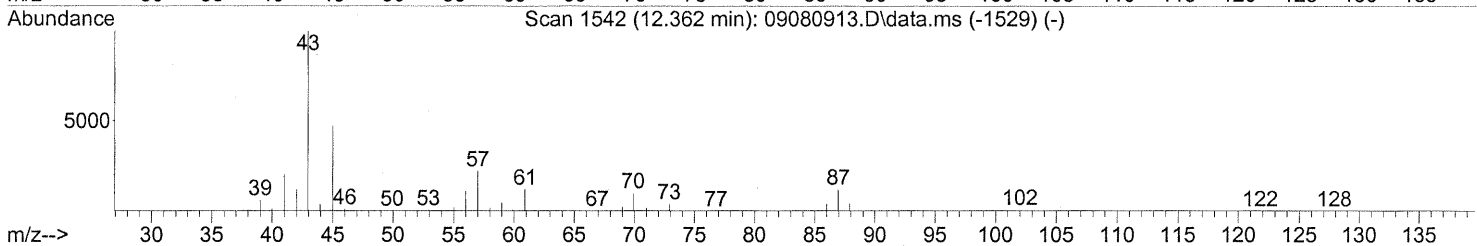
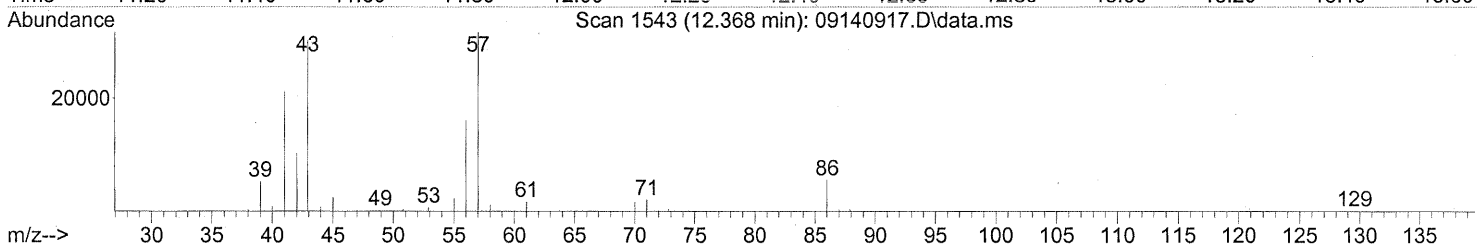
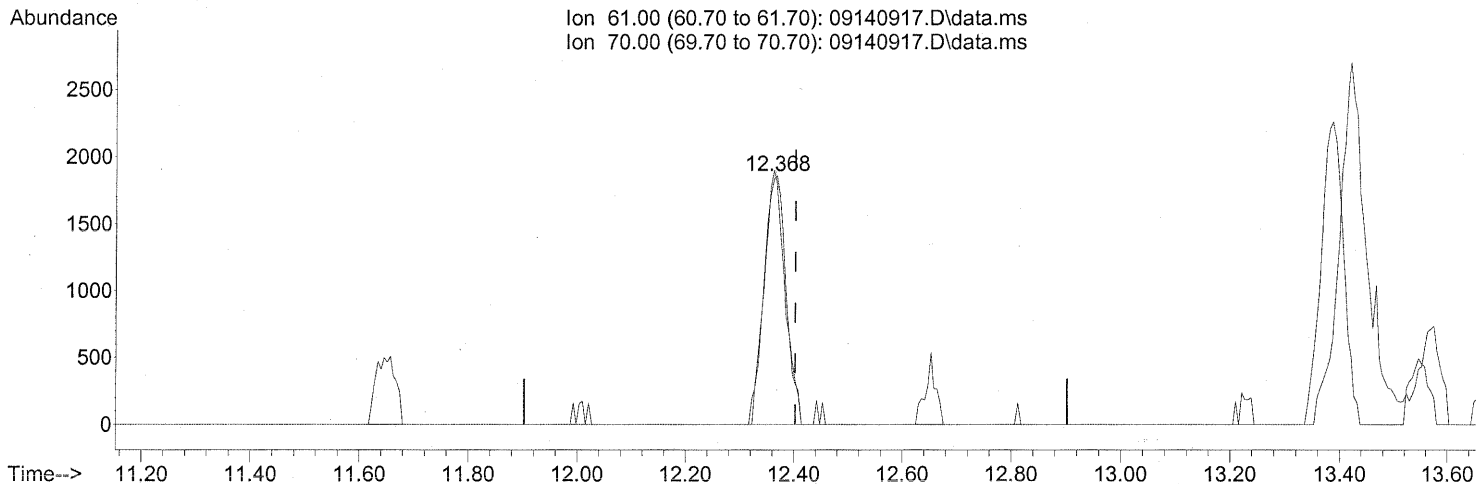
11.355min (-0.040) 3.62ng
 response 28224

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	359.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

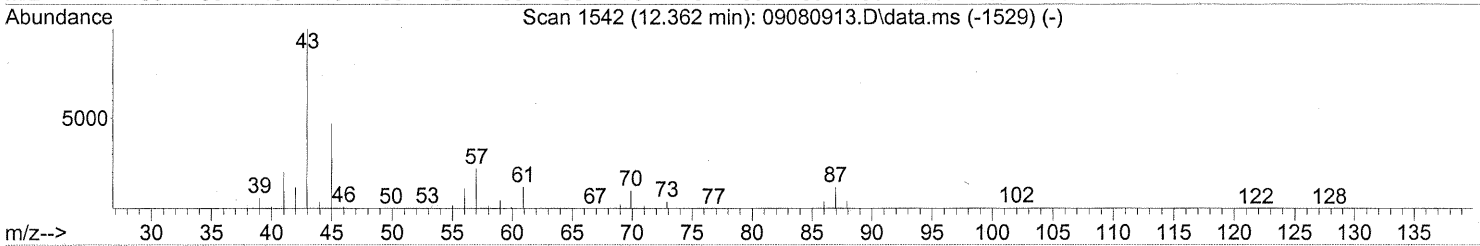
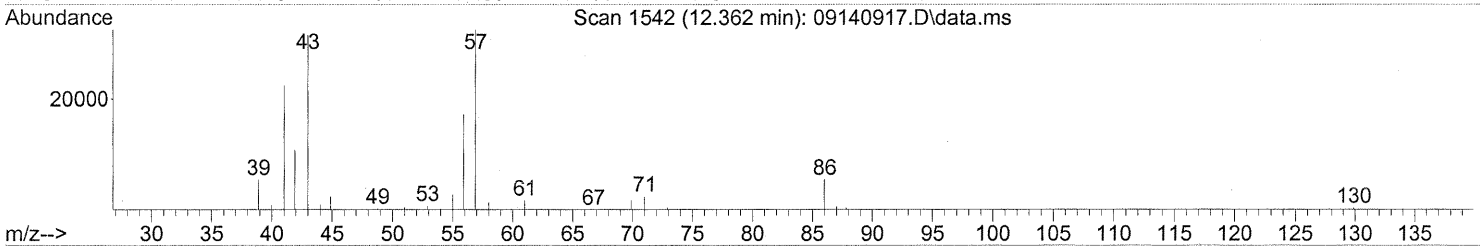
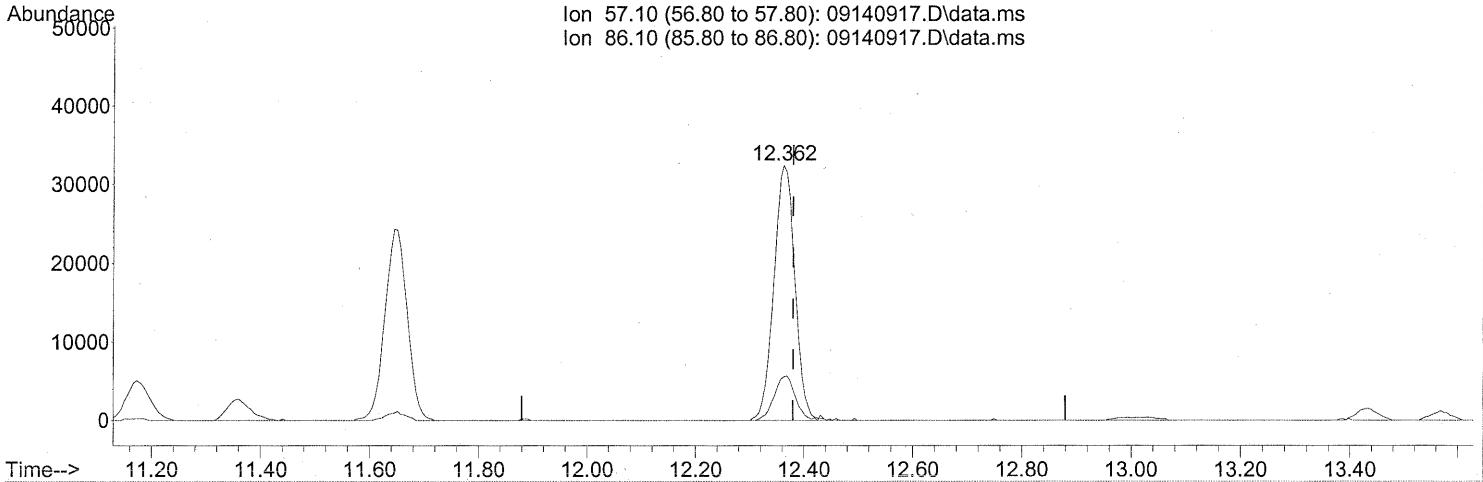
(30) Ethyl Acetate (T)
 12.368min (-0.034) 1.34ng
 response 5297

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	94.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(31) n-Hexane (T)

12.362min (-0.017) 5.61ng

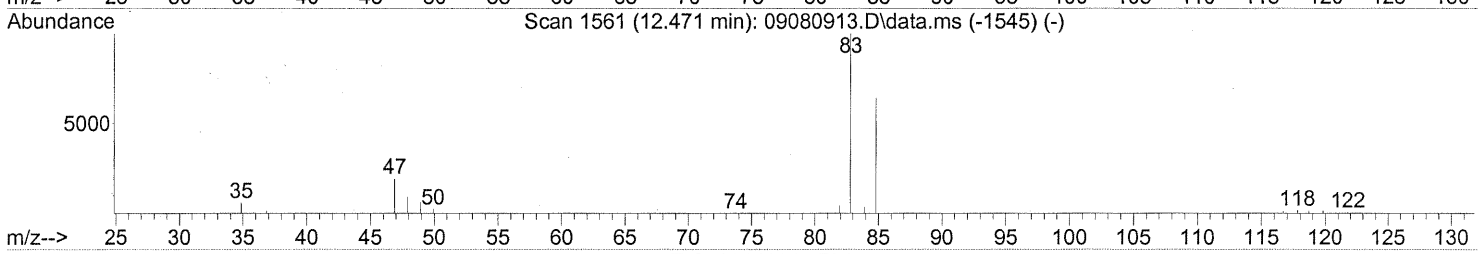
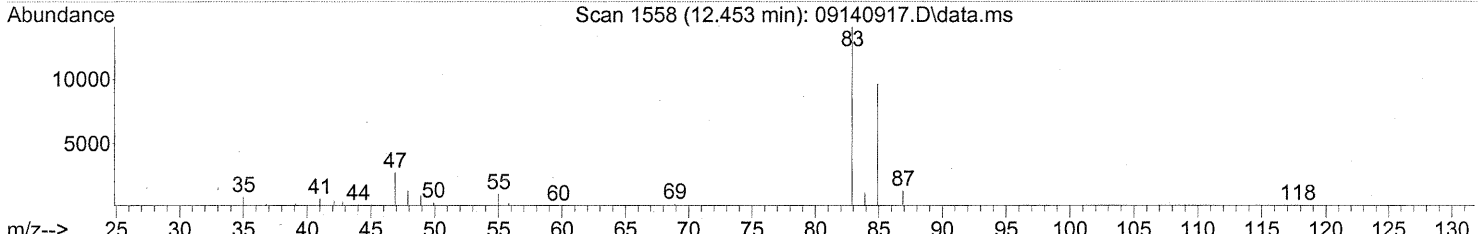
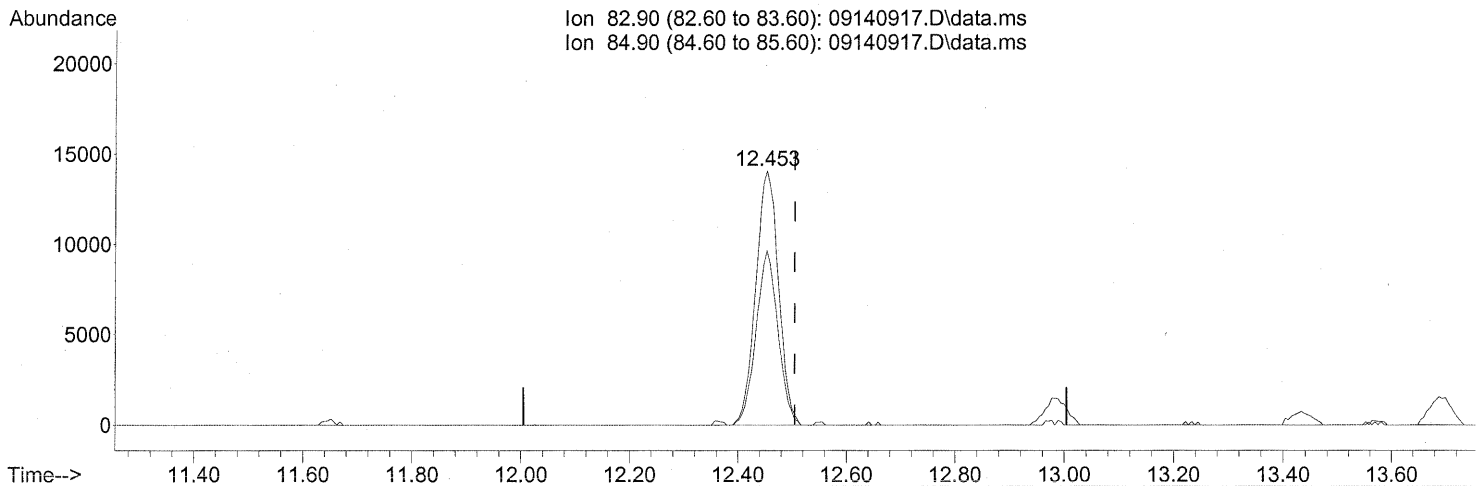
response 87829

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	17.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.453min (-0.051) 2.14ng

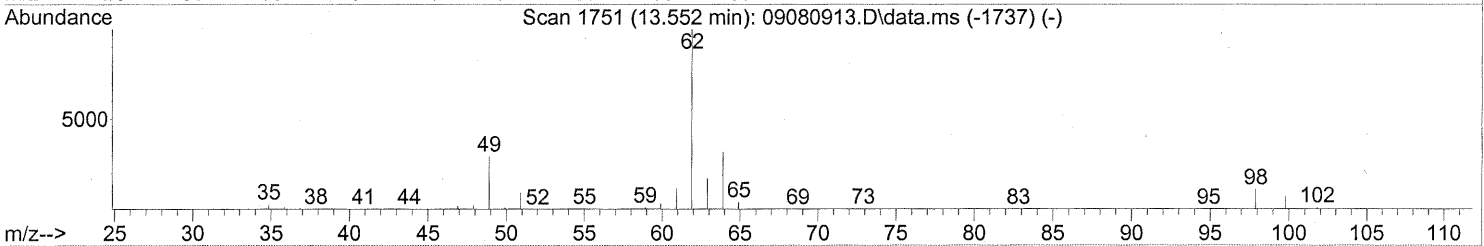
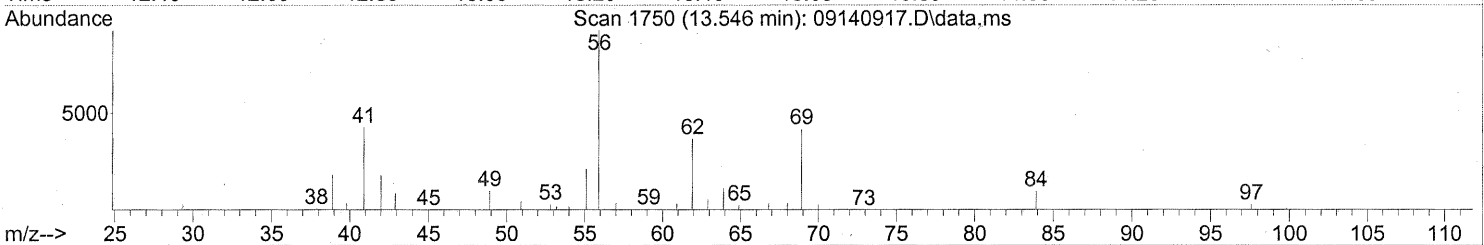
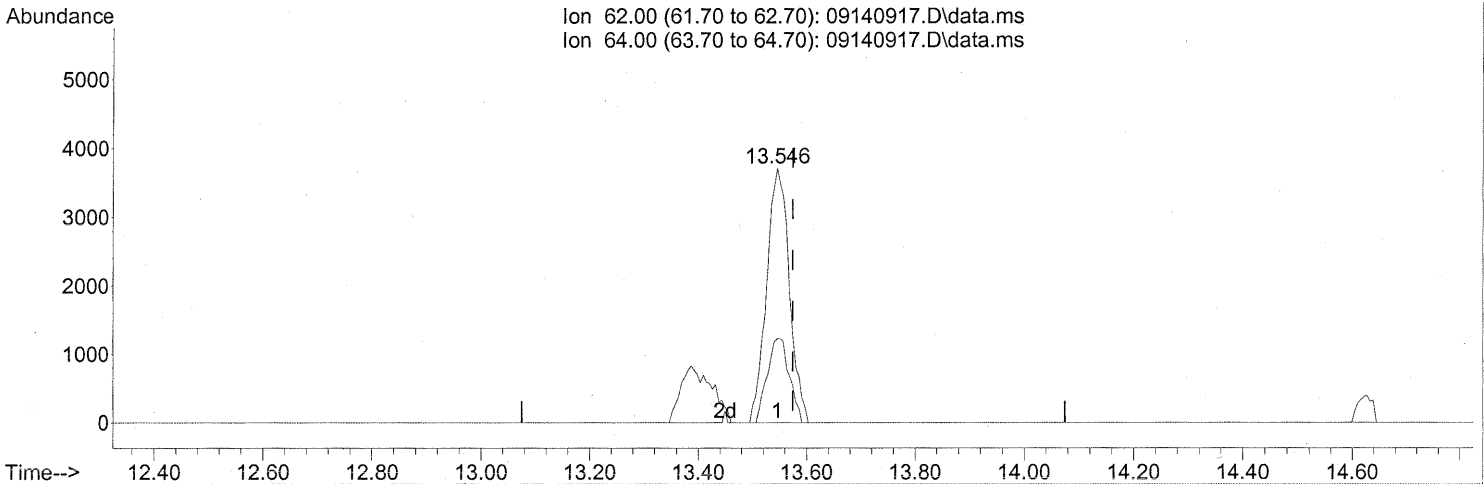
response 41098

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.029) 0.82ng

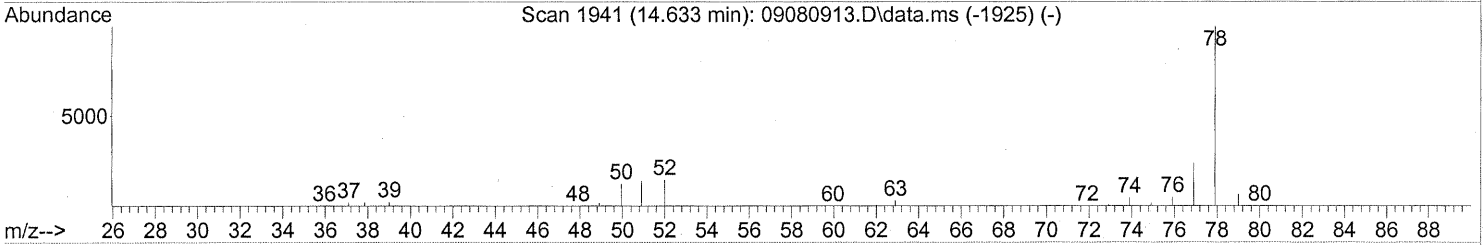
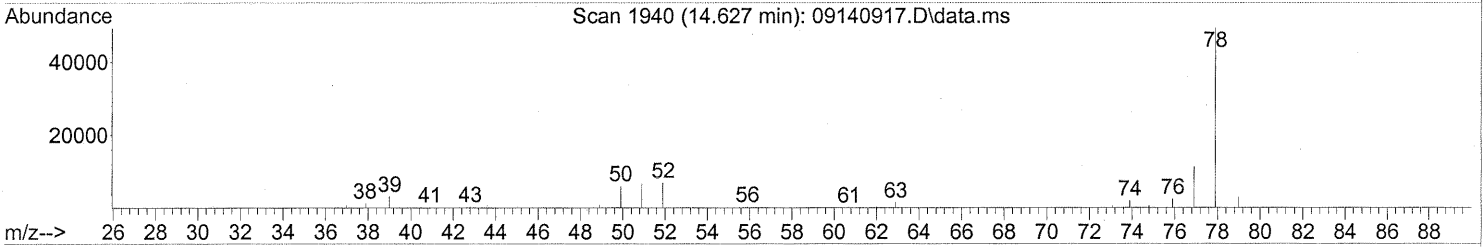
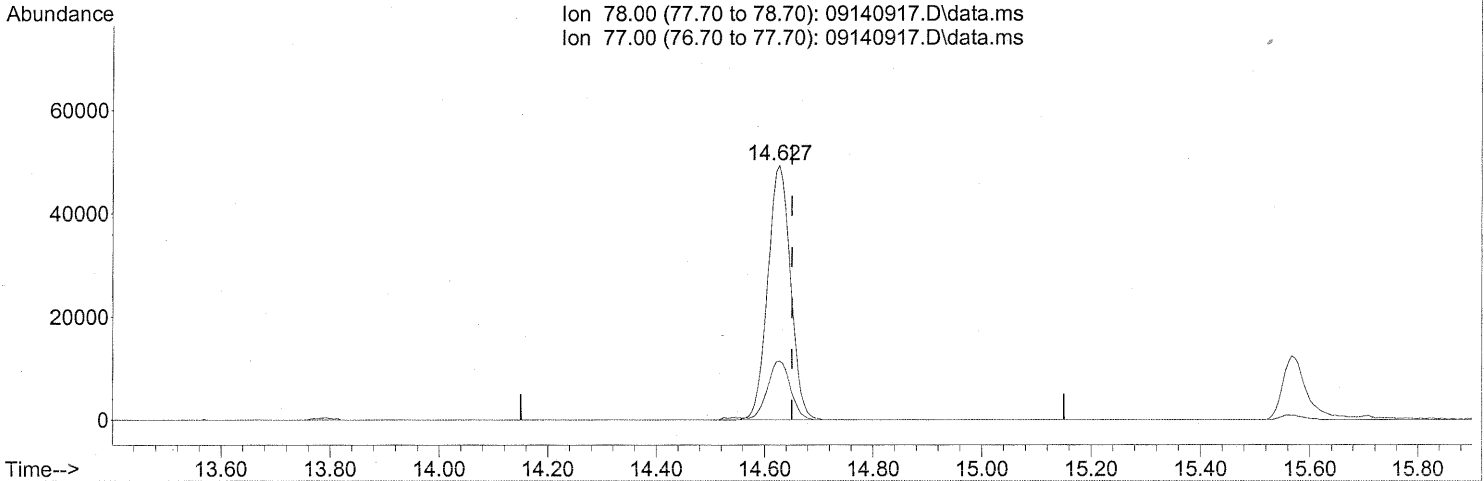
response 10848

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

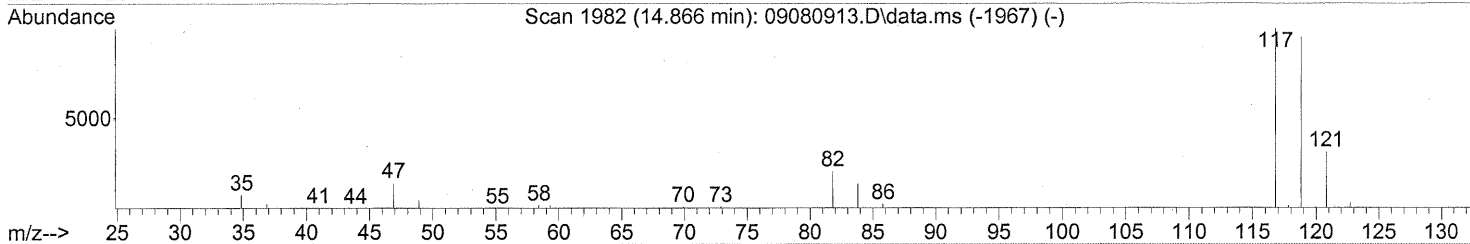
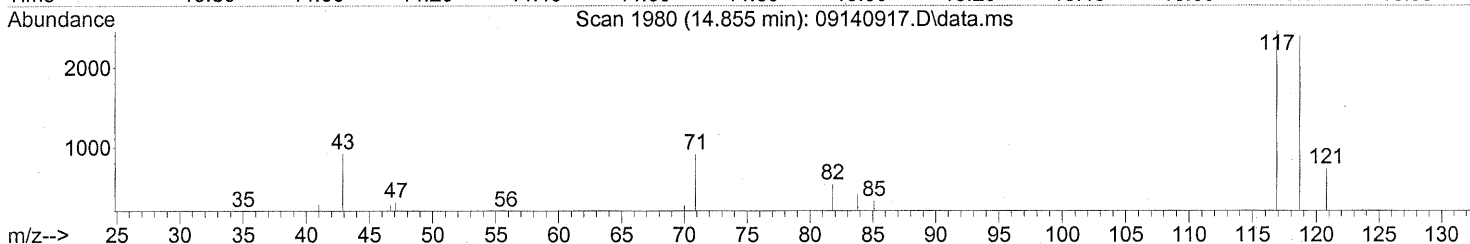
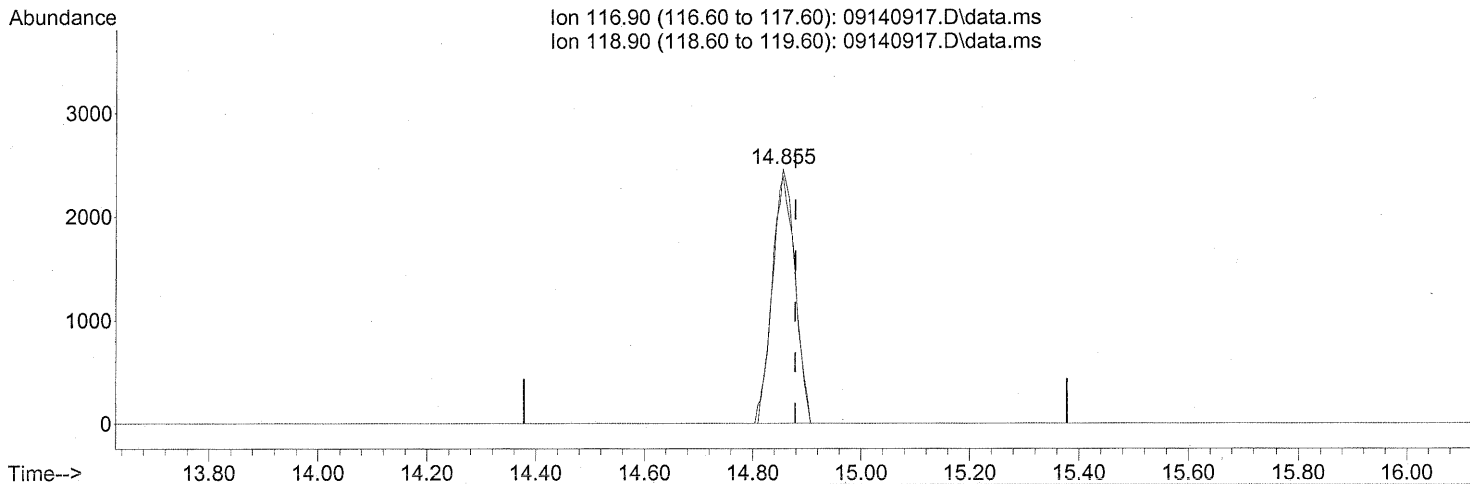
(41) Benzene (T)
 14.627min (-0.023) 3.08ng
 response 144233

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.50ng

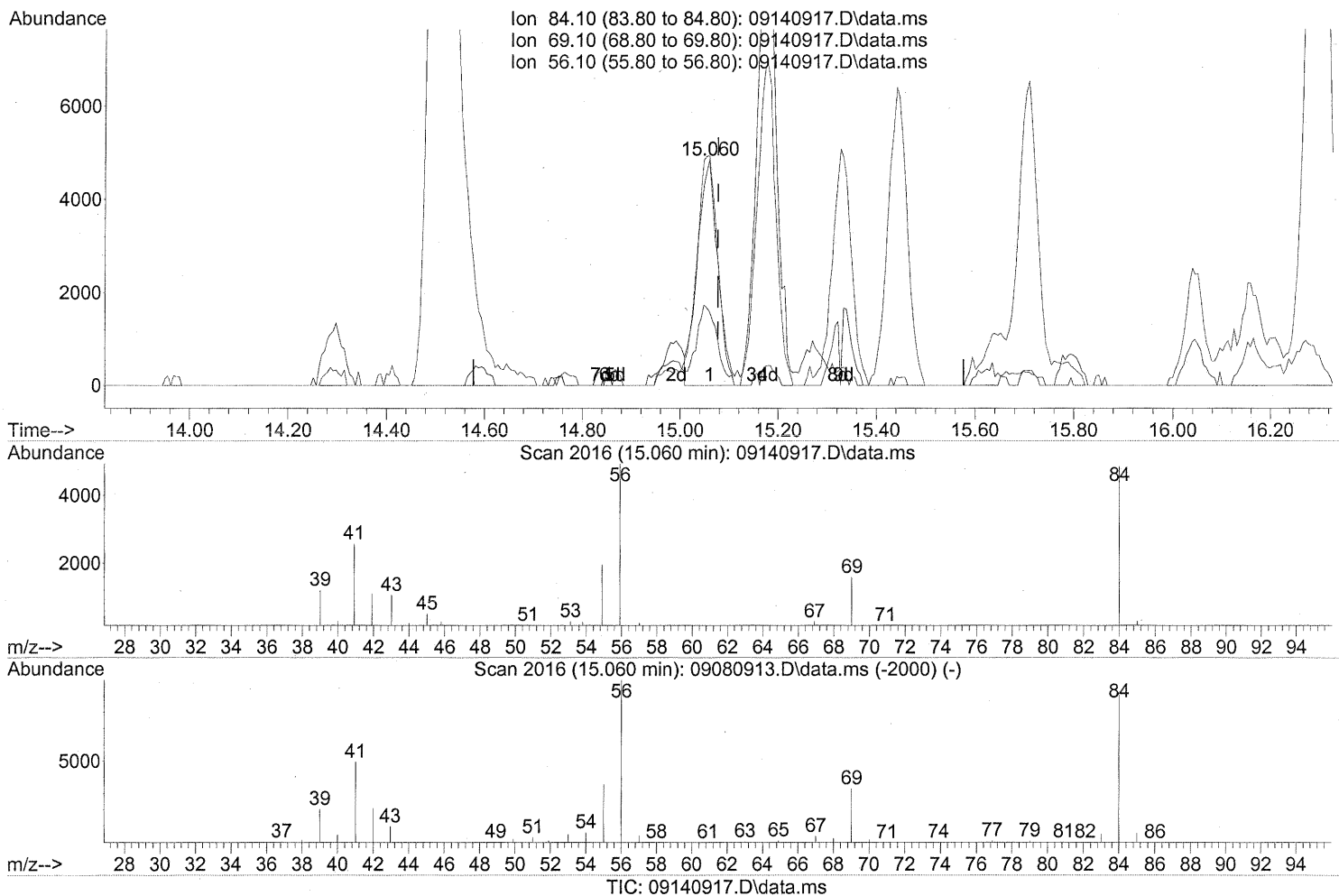
response 7069

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	99.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.060min (-0.017) 0.81ng

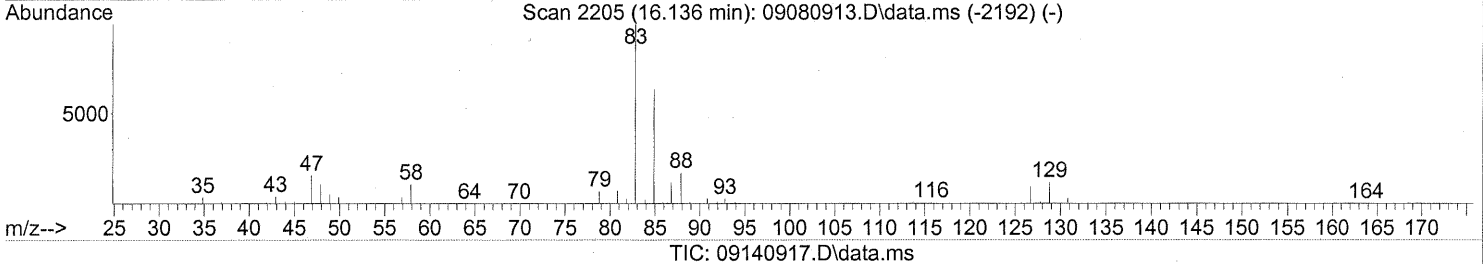
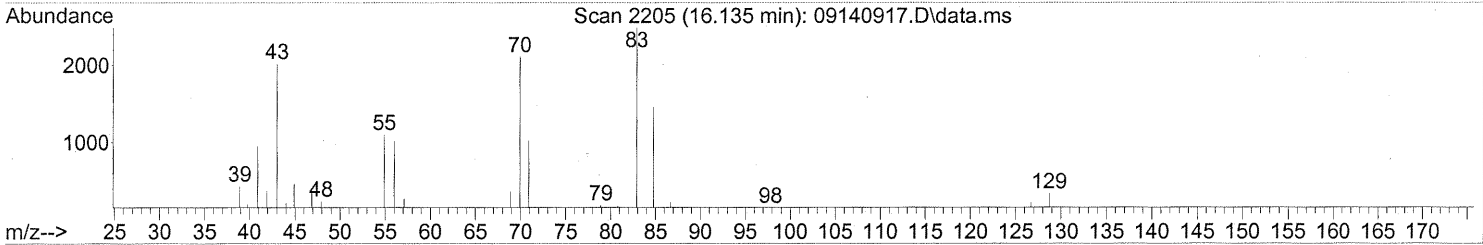
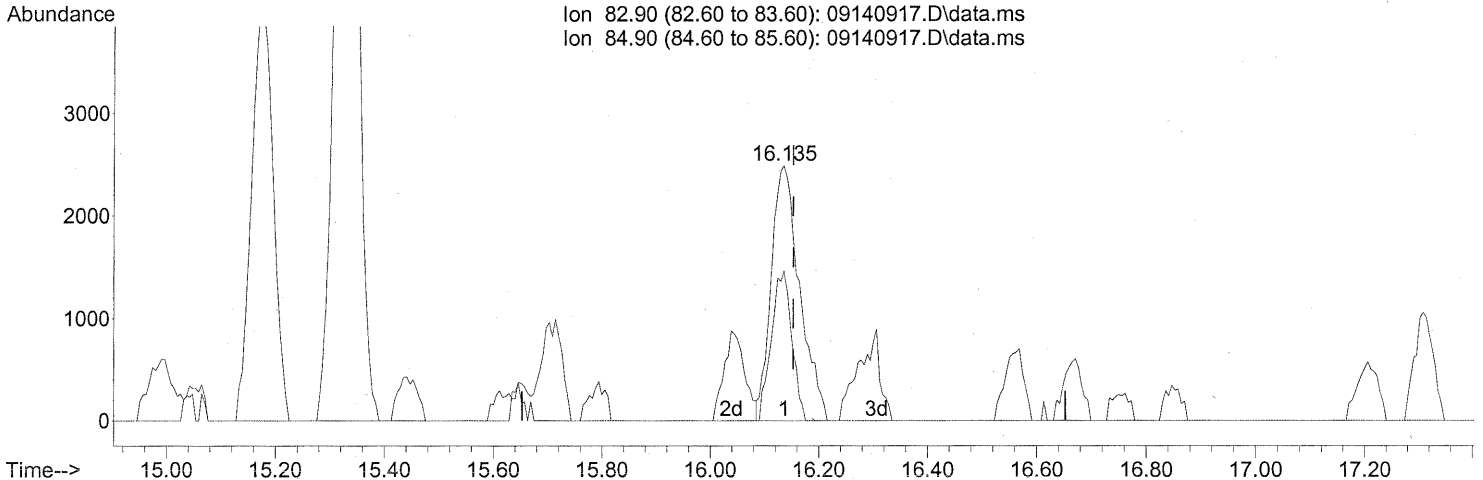
response 13905

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	37.24
56.10	124.60	110.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.135min (-0.017) 0.62ng

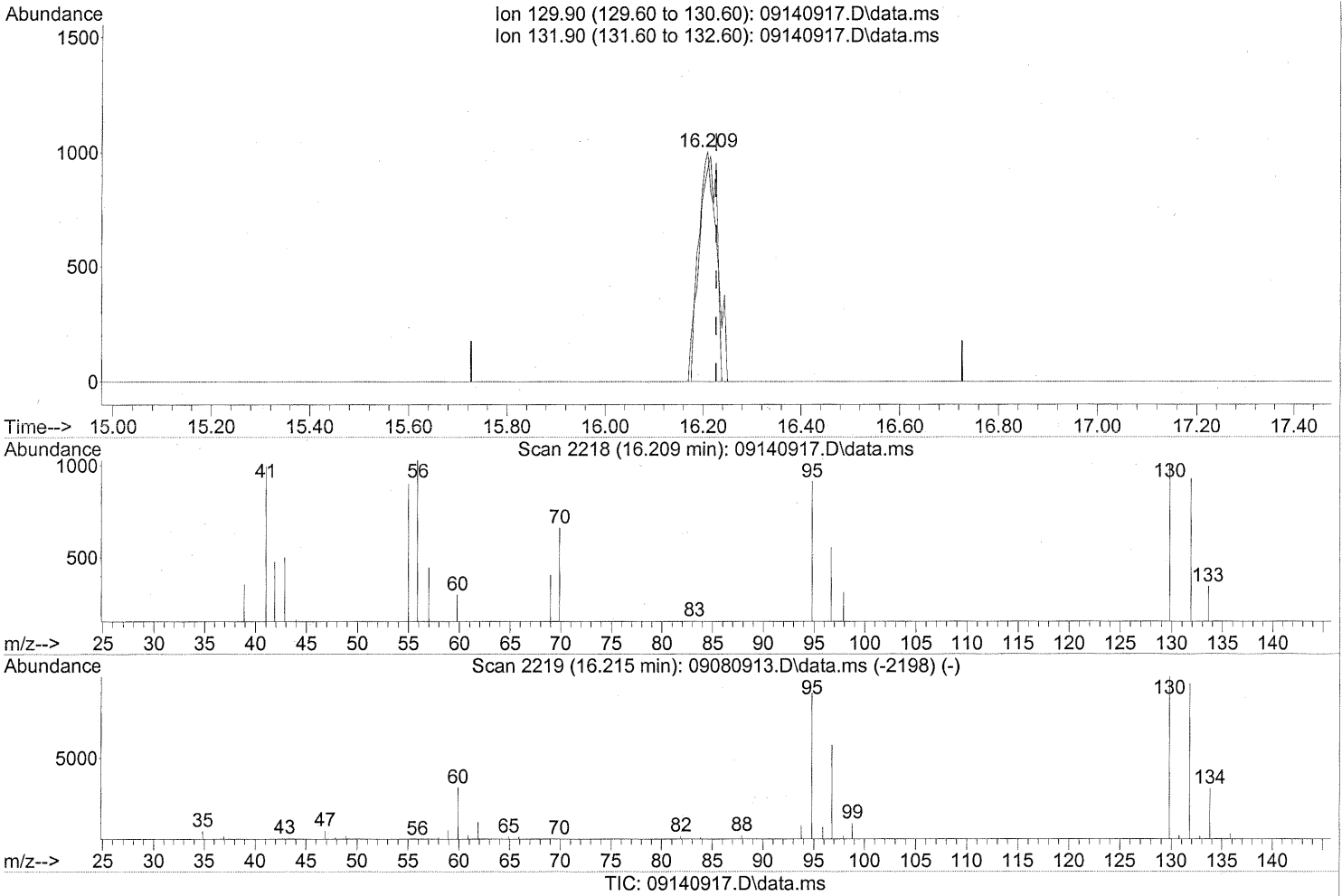
response 9034

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	42.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140917.D
Acq On : 14 Sep 2009 17:14
Operator : LH
Sample : P0903145-001 (1000mL)
Misc : Environmental H & E 102648
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(47) Trichloroethene (T)

16.209min (-0.017) 0.18ng

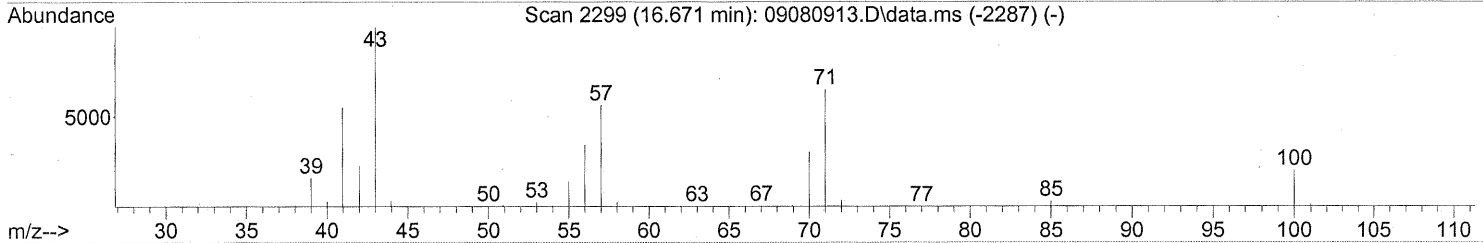
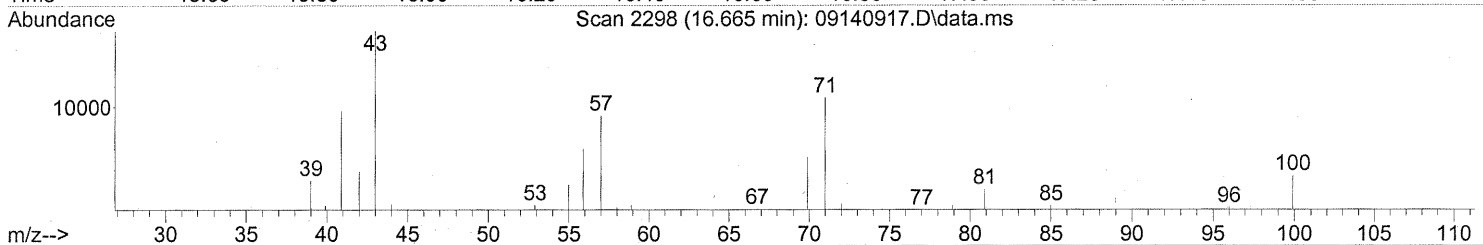
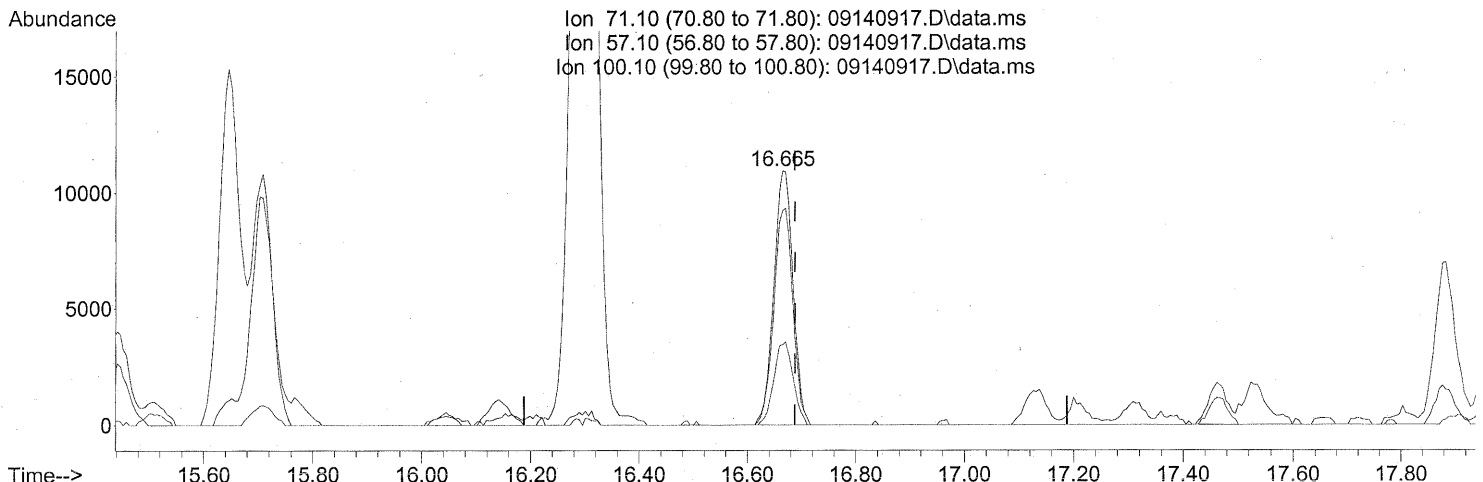
response 2483

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	103.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

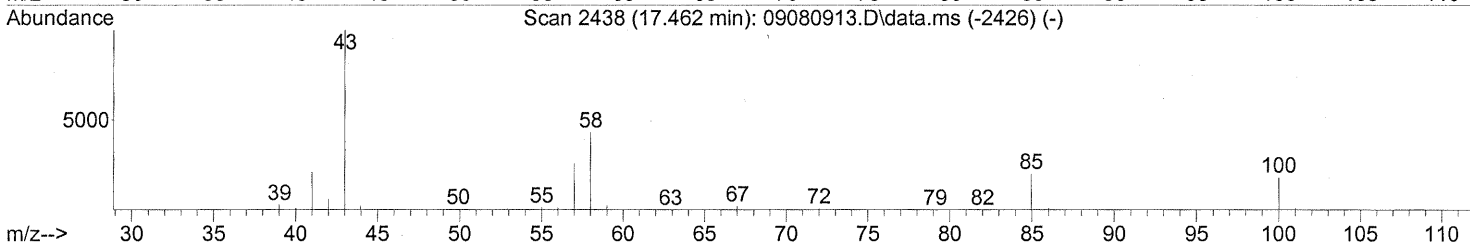
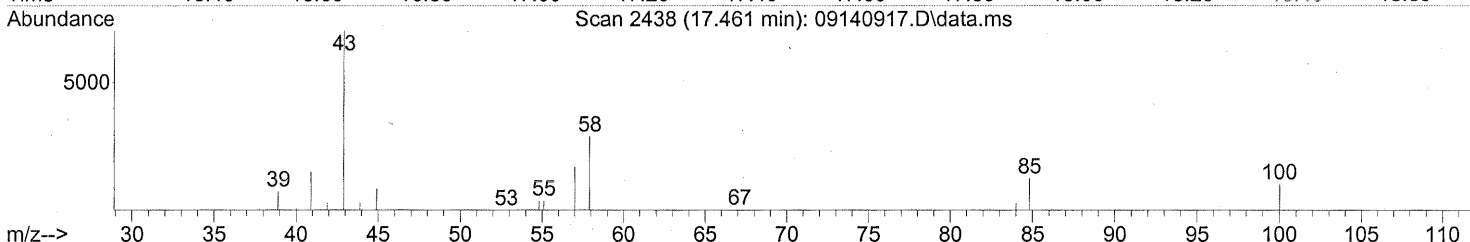
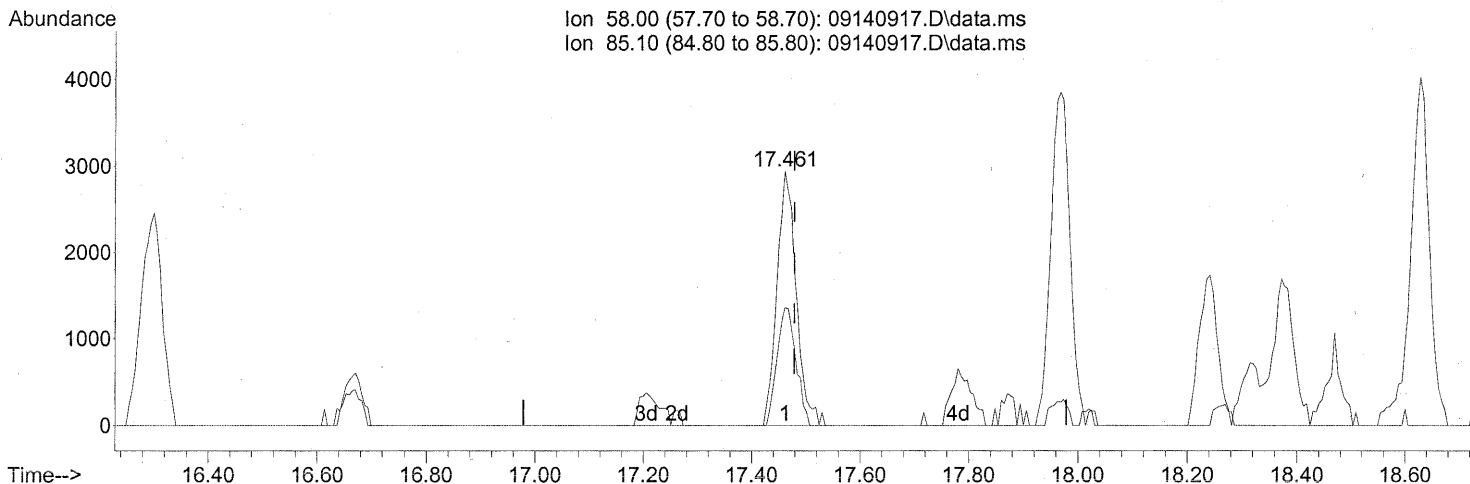
(51) n-Heptane (T)
 16.665min (-0.023) 2.26ng
 response 27007

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	84.97
100.10	26.80	32.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.461min (-0.017) 0.69ng

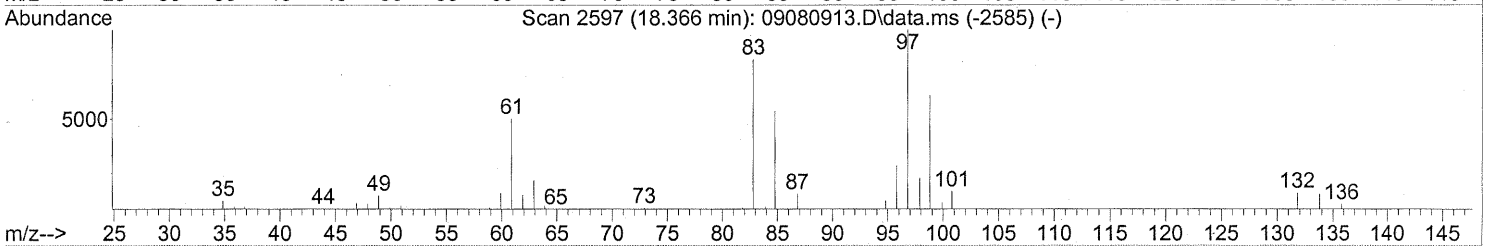
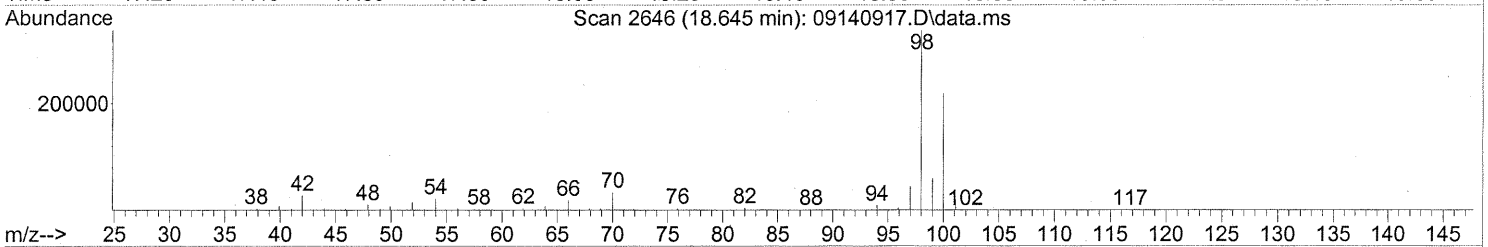
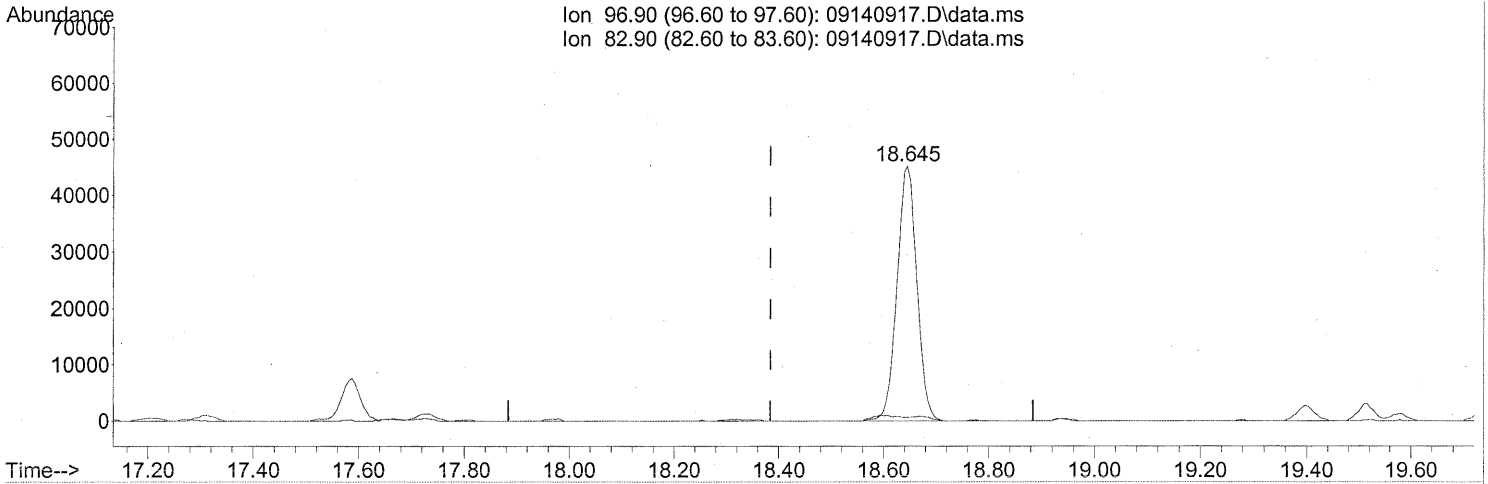
response 7255

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	45.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140917.D
Acq On : 14 Sep 2009 17:14
Operator : LH
Sample : P0903145-001 (1000mL)
Misc : Environmental H & E 102648
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09140917.D\data.ms

(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 10.07ng

response 118776

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

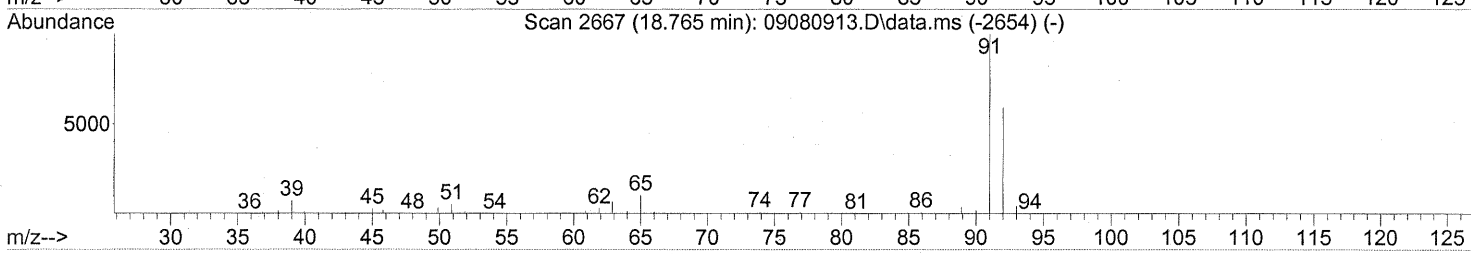
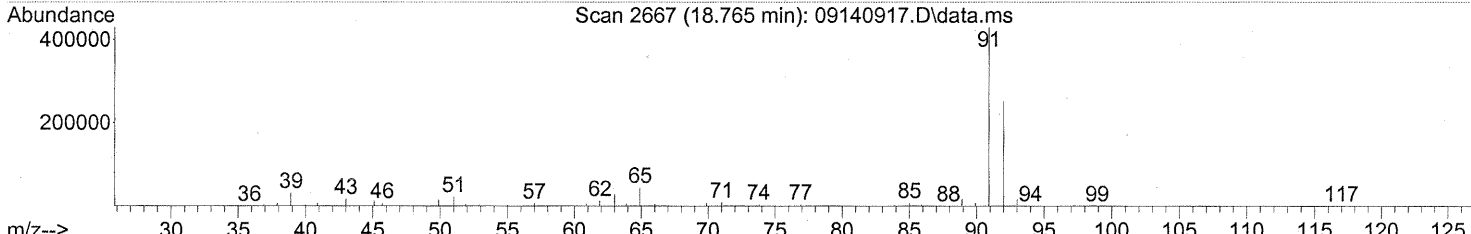
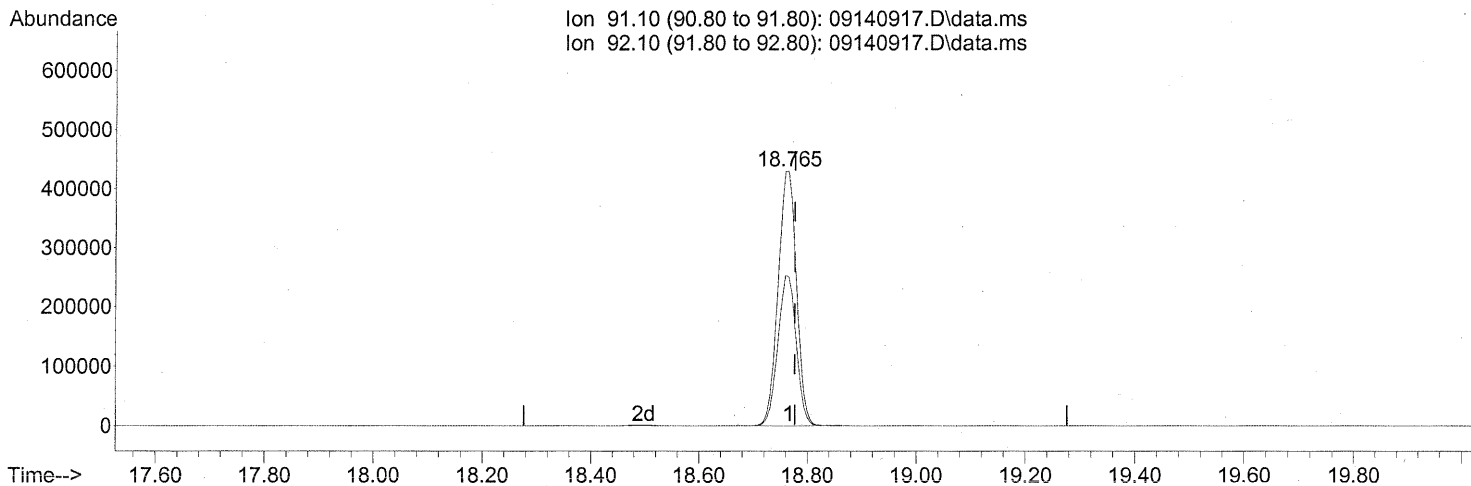
FP LH 9/18/09

9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(58) Toluene (T)

18.765min (-0.011) 19.31ng

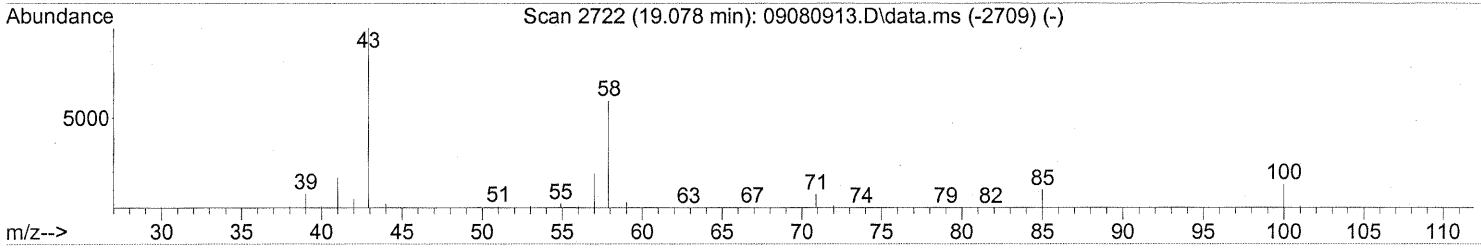
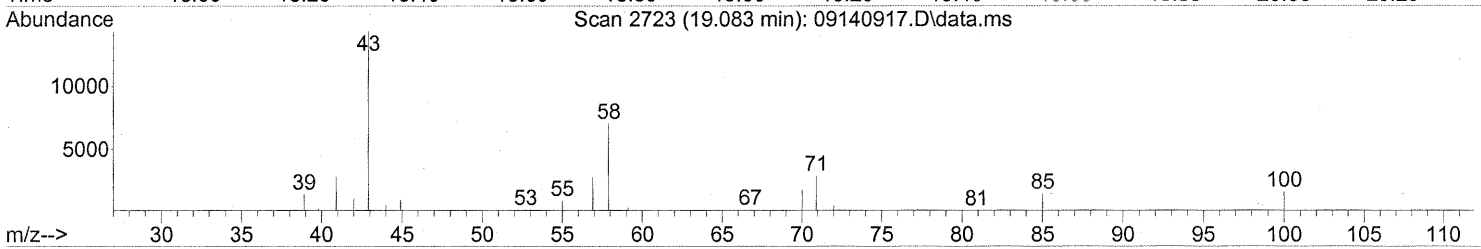
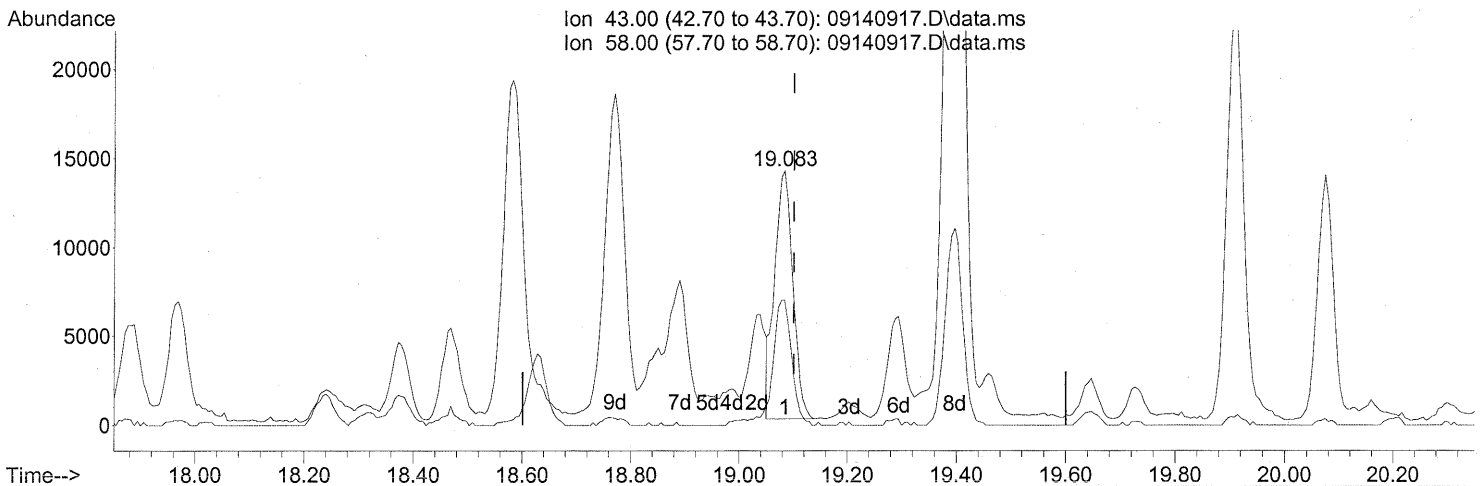
response 1005834

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(59) 2-Hexanone (T)

19.083min (-0.017) 1.30ng

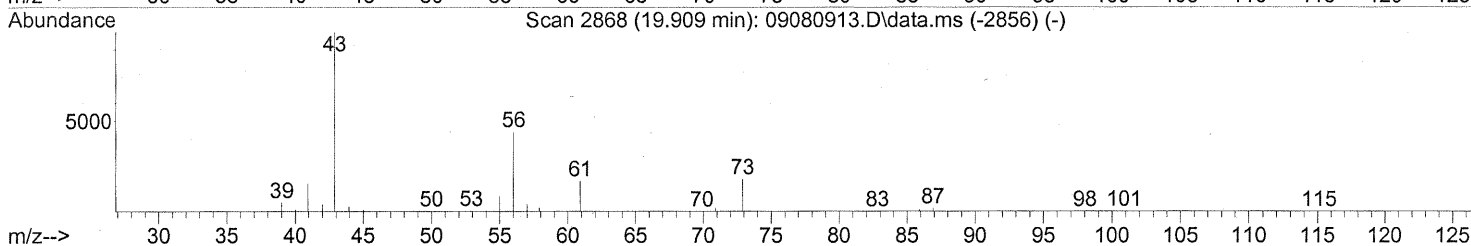
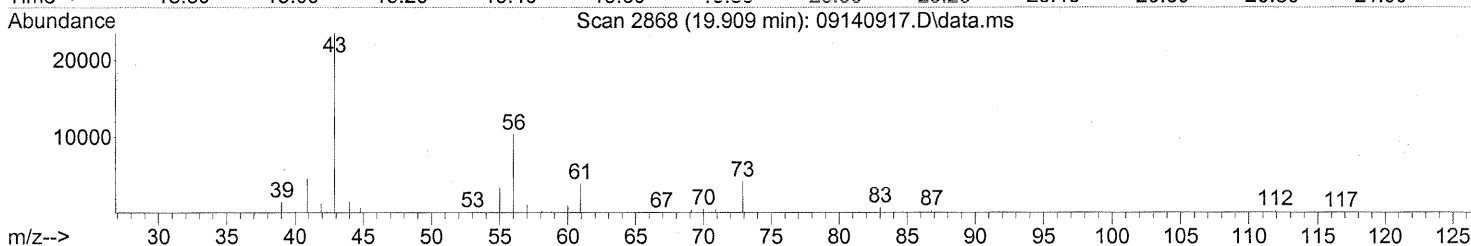
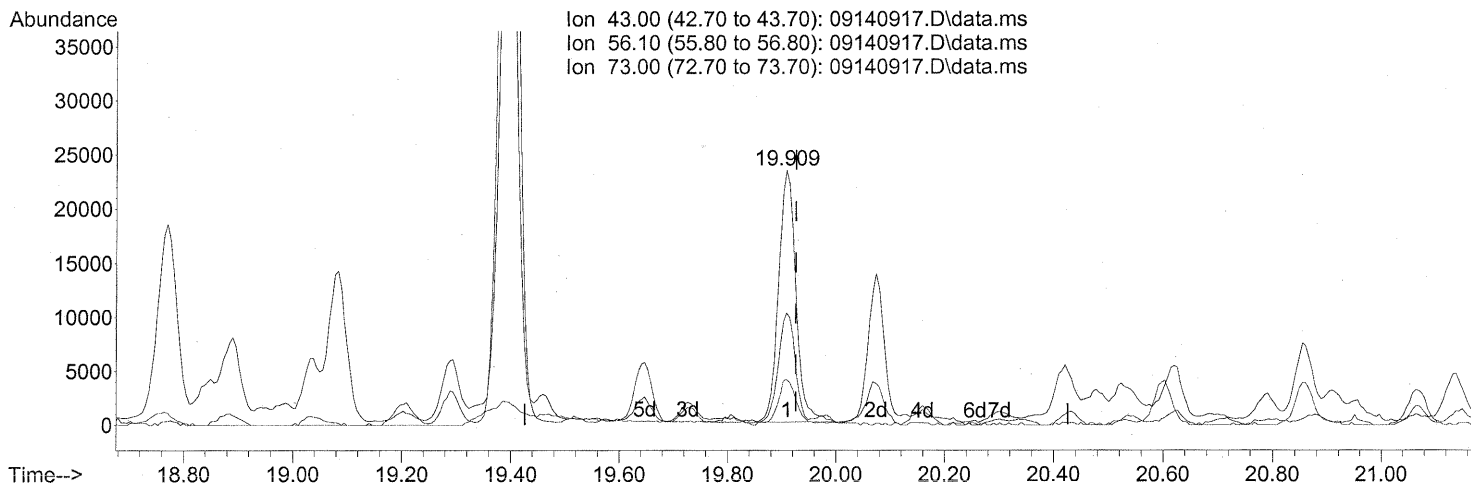
response 32720

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	51.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

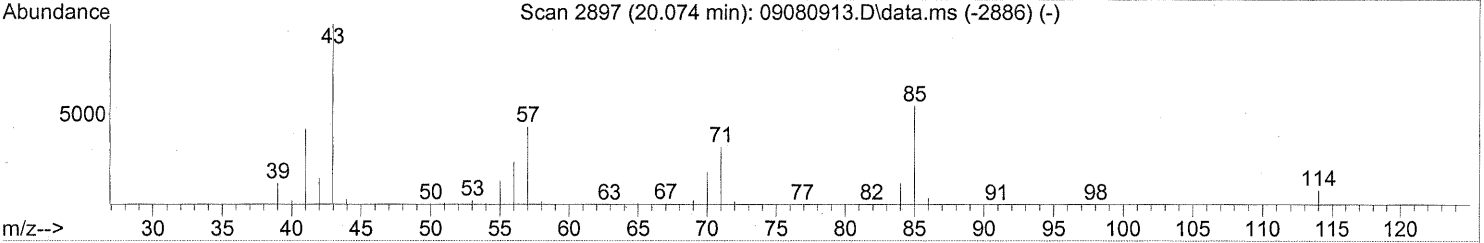
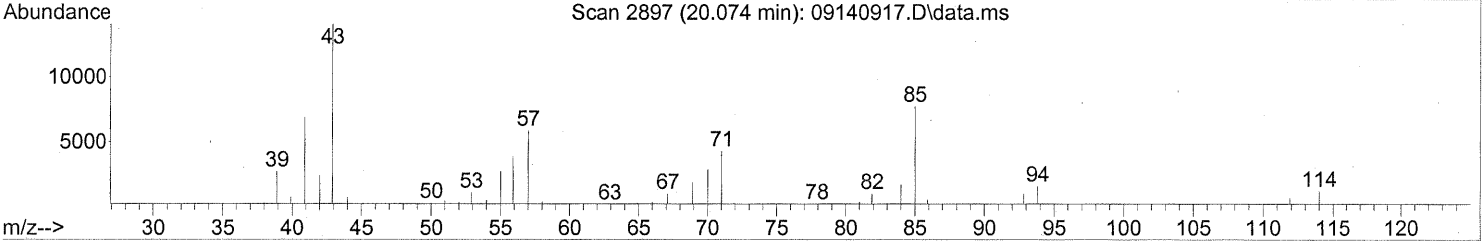
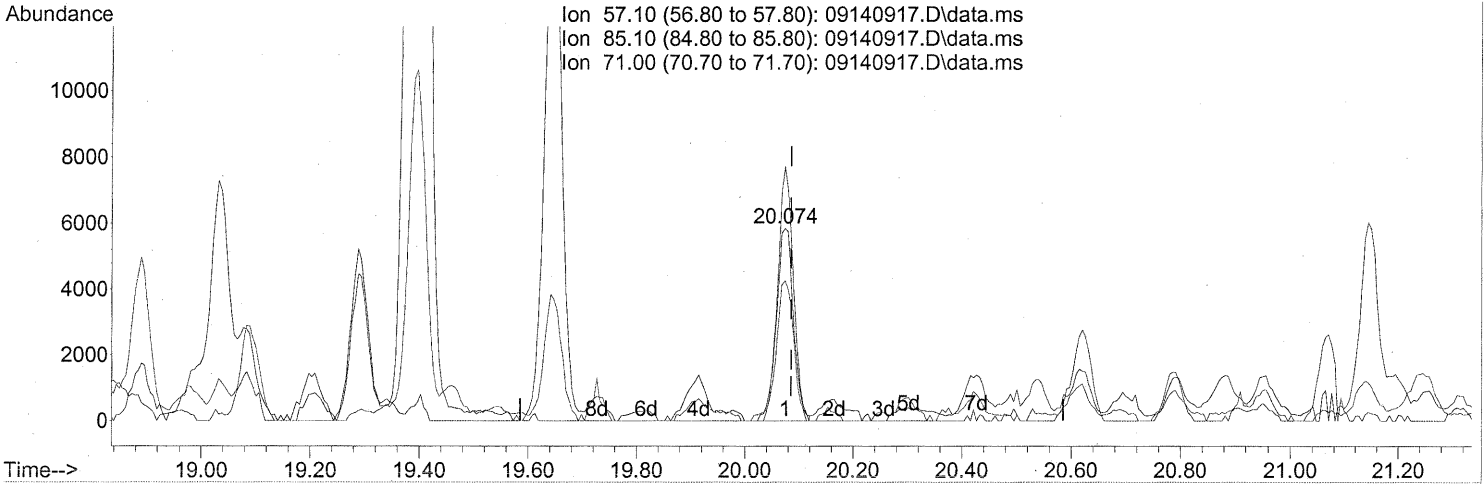
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 1.80ng
 response 51811

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	45.53
73.00	15.40	17.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.074min (-0.011) 1.32ng

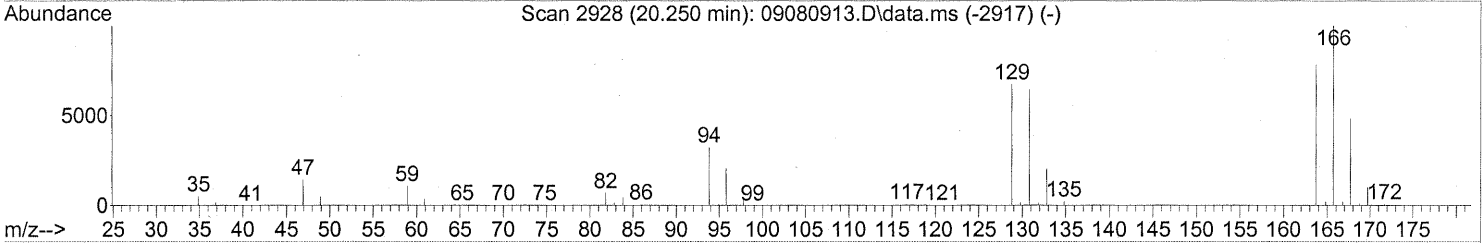
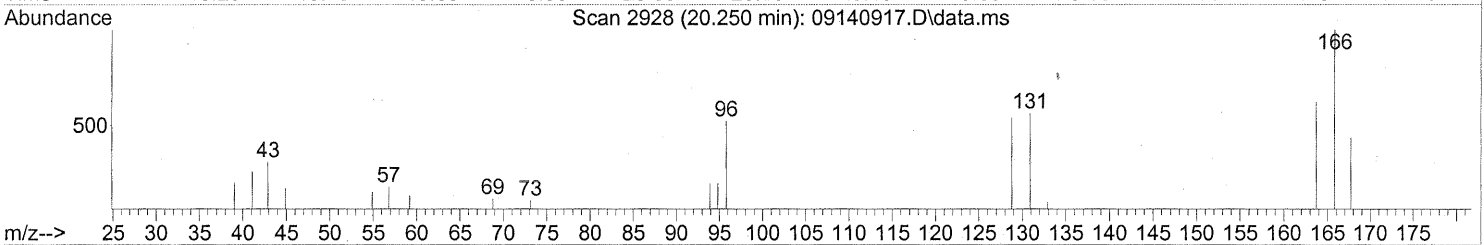
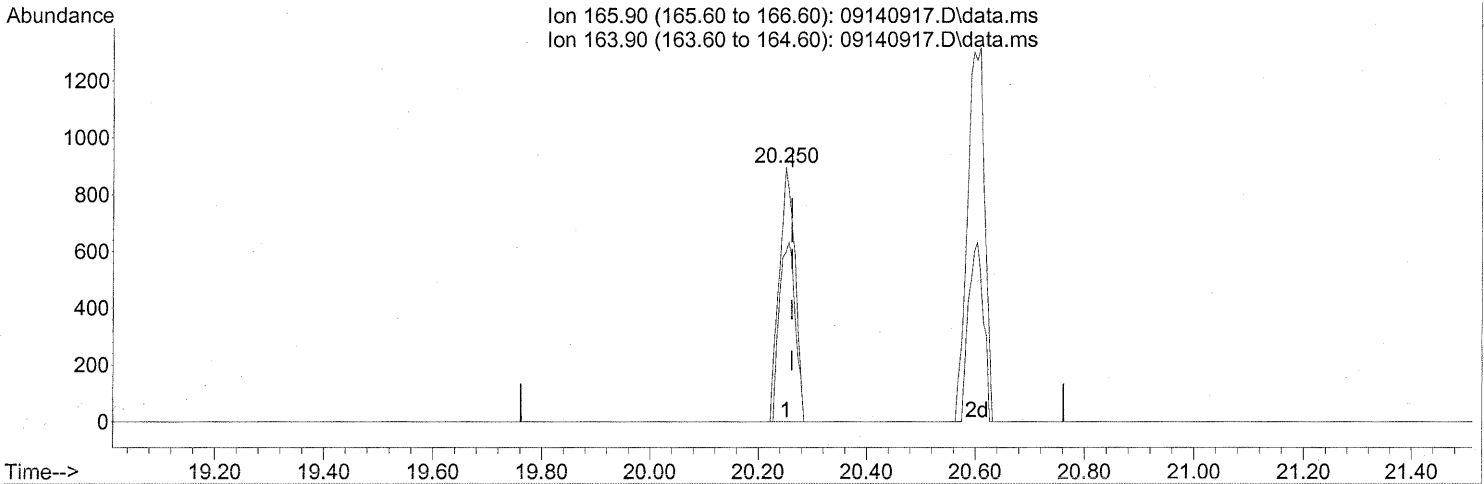
response 12911

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	120.91
71.00	69.40	74.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.250min (-0.011) 0.11ng

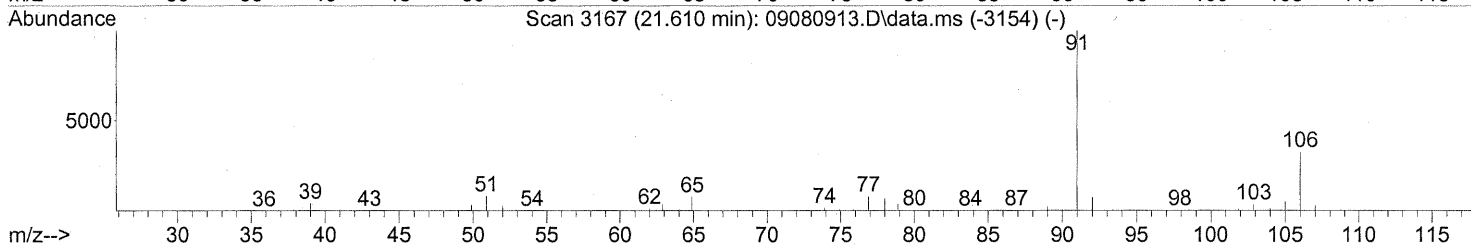
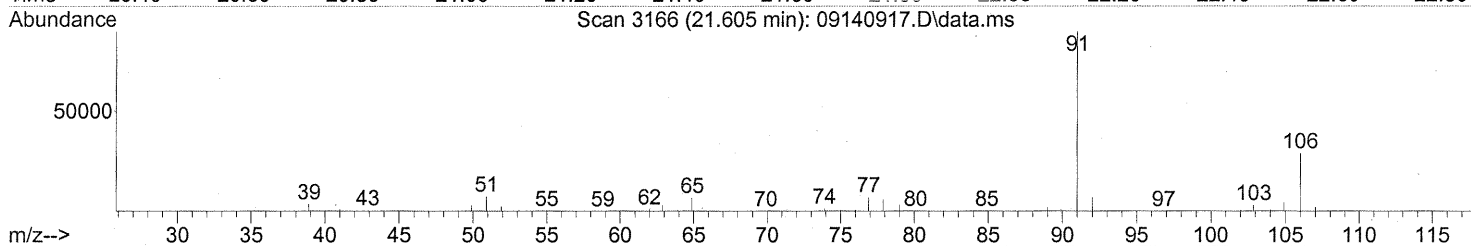
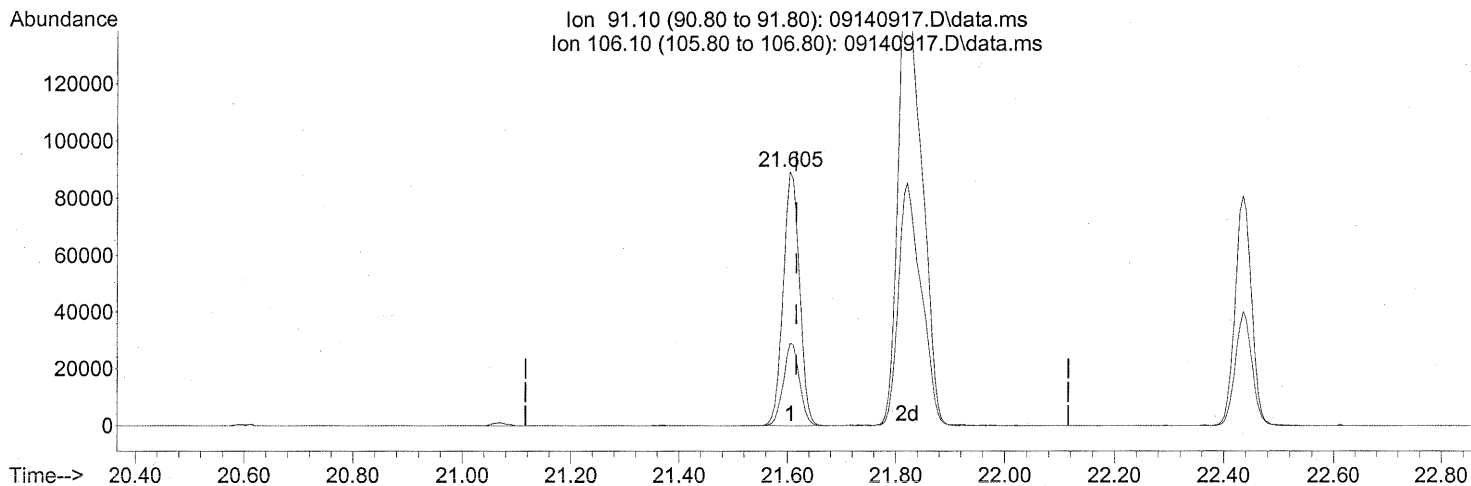
response 1821

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	71.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(66) Ethylbenzene (T)

21.605min (-0.011) 3.28ng

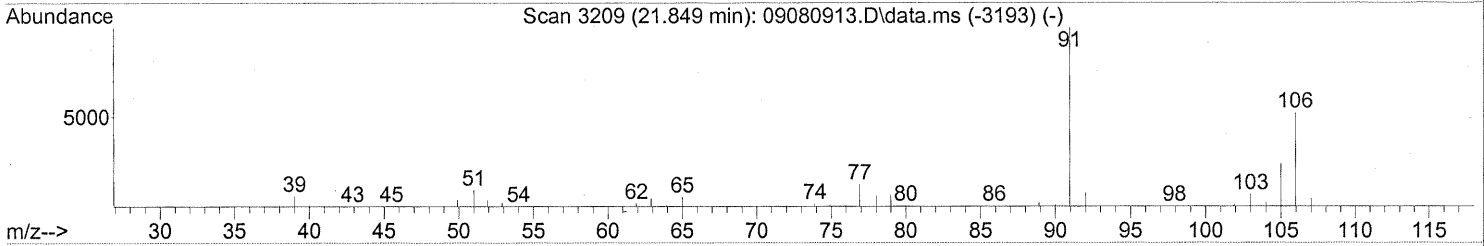
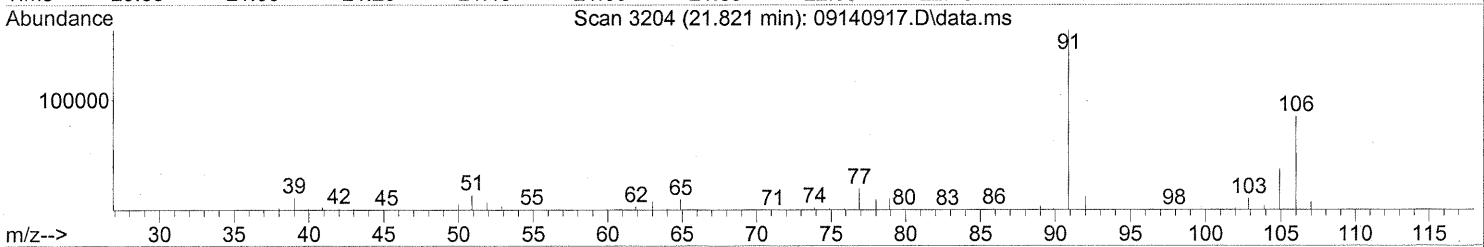
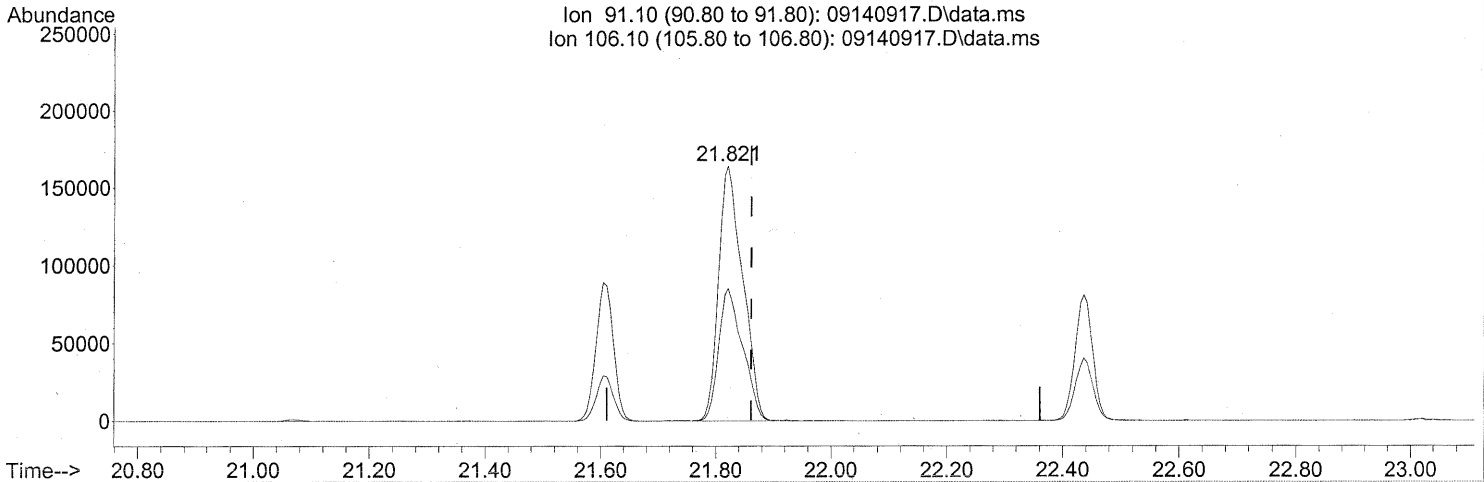
response 187590

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(67) m- & p-Xylenes (T)

21.821min (-0.040) 10.68ng

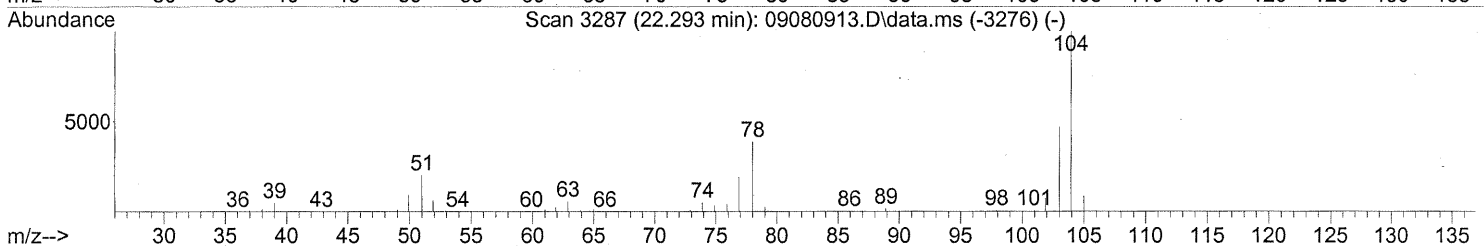
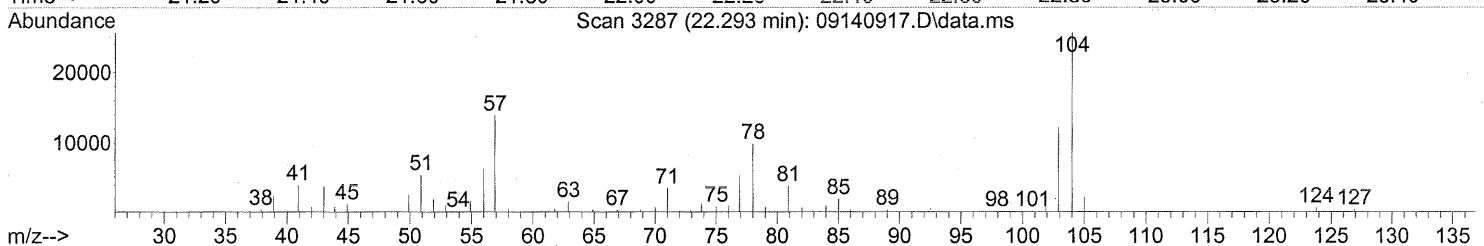
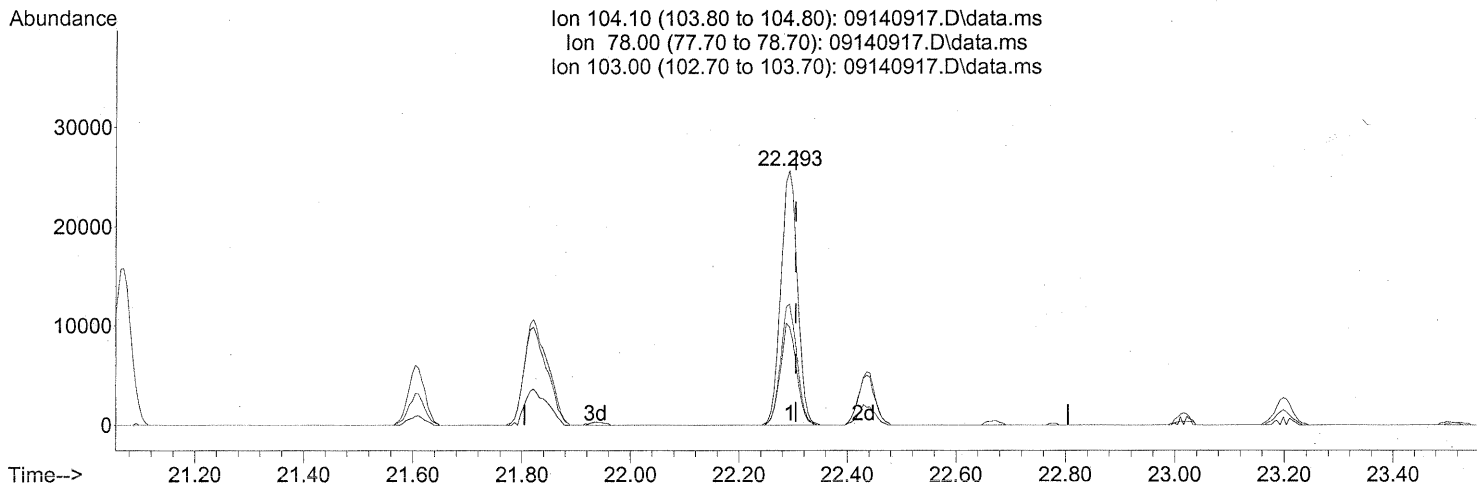
response 477345

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(69) Styrene (T)

22.293min (-0.011) 1.48ng

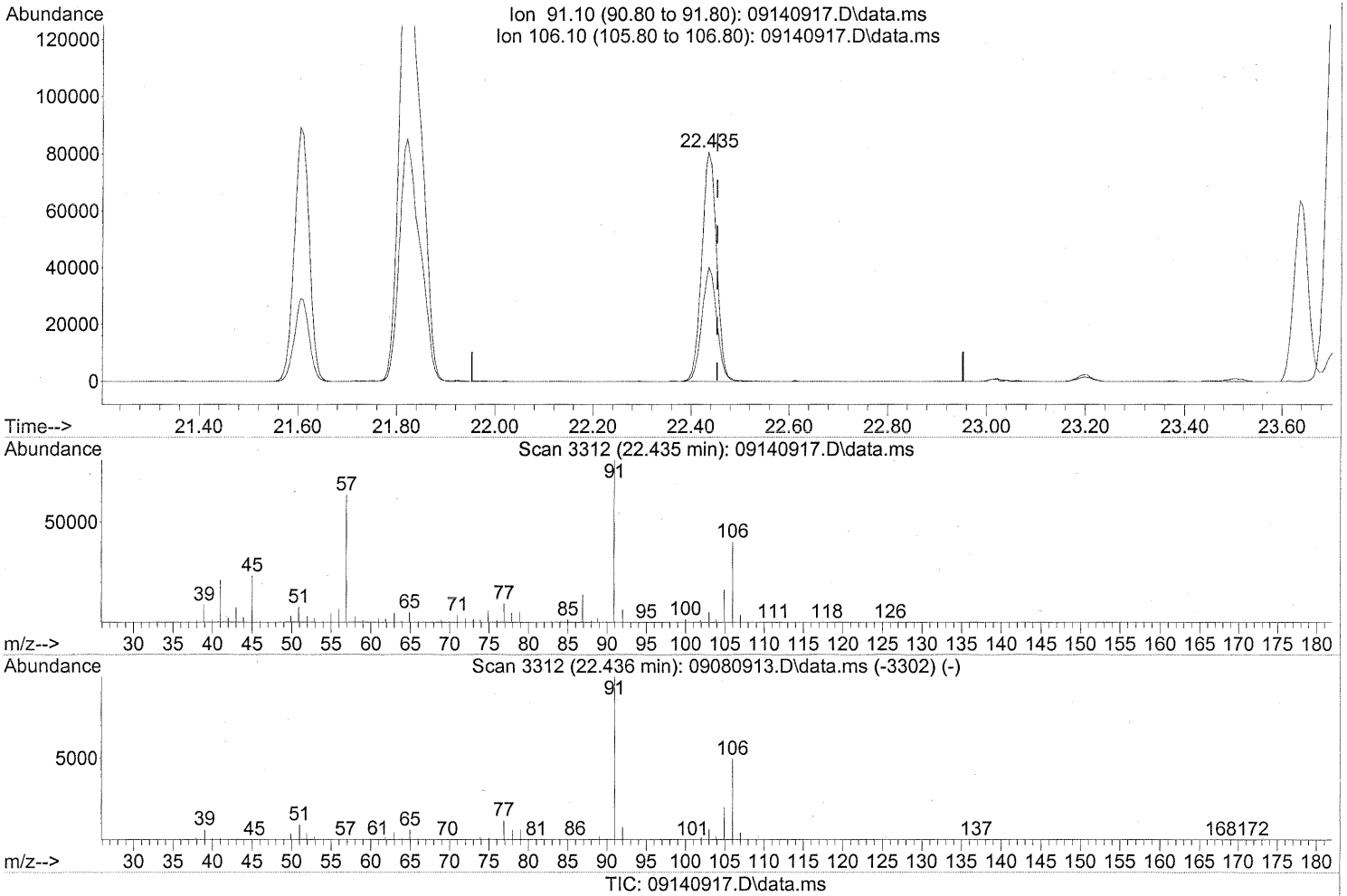
response 54222

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.13
103.00	47.80	46.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.435min (-0.017) 3.72ng

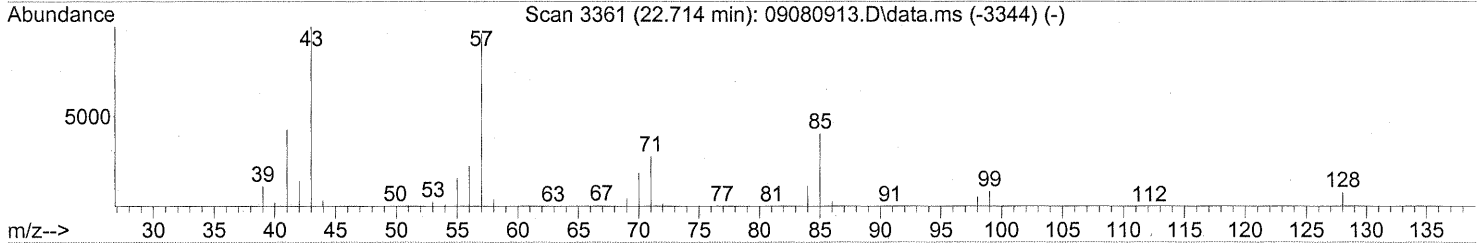
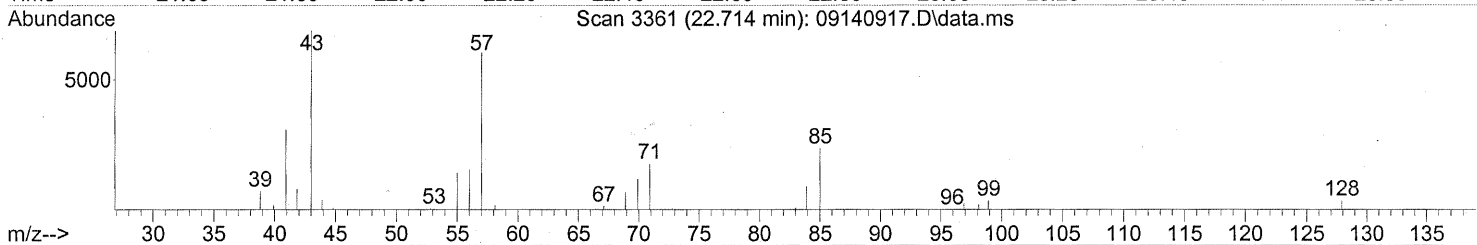
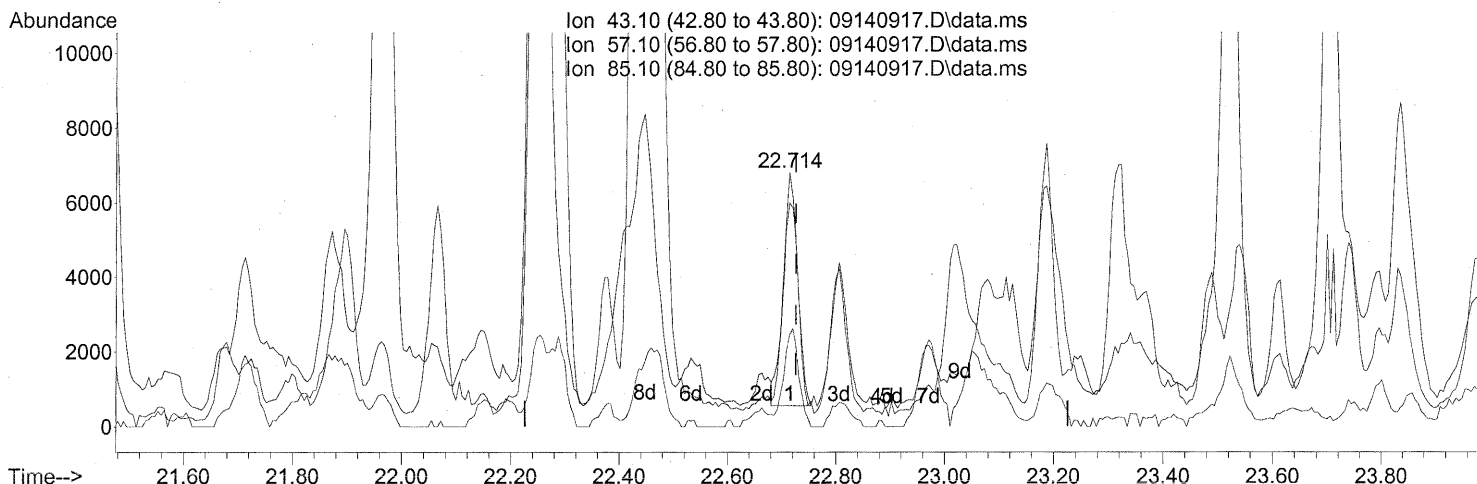
response 169853

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	50.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



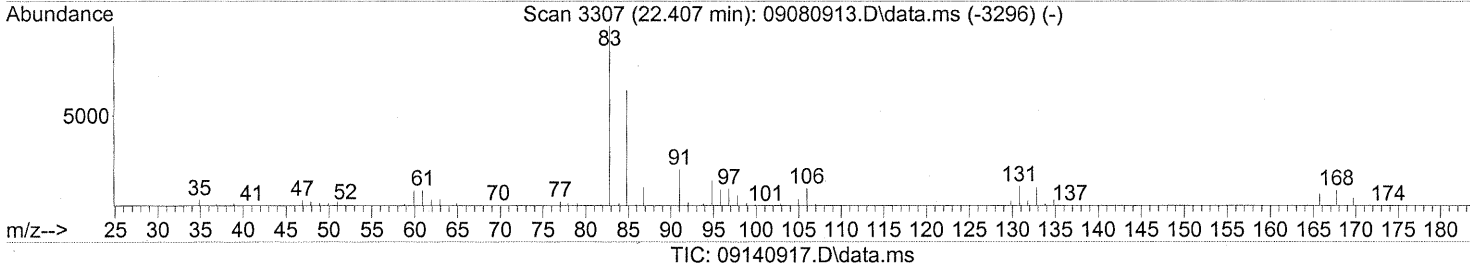
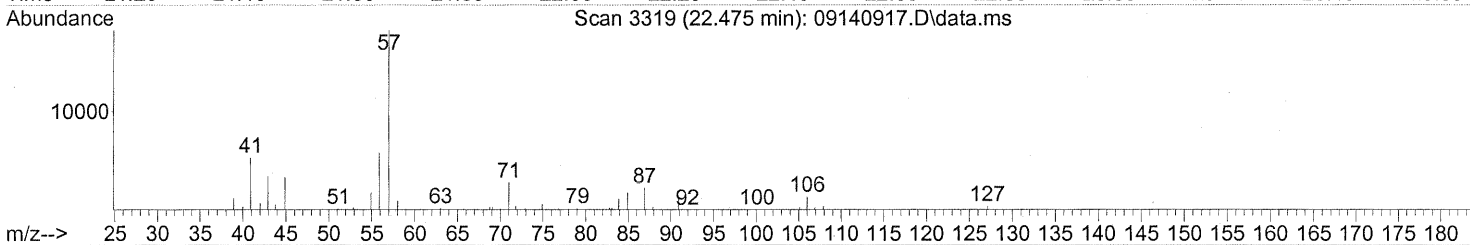
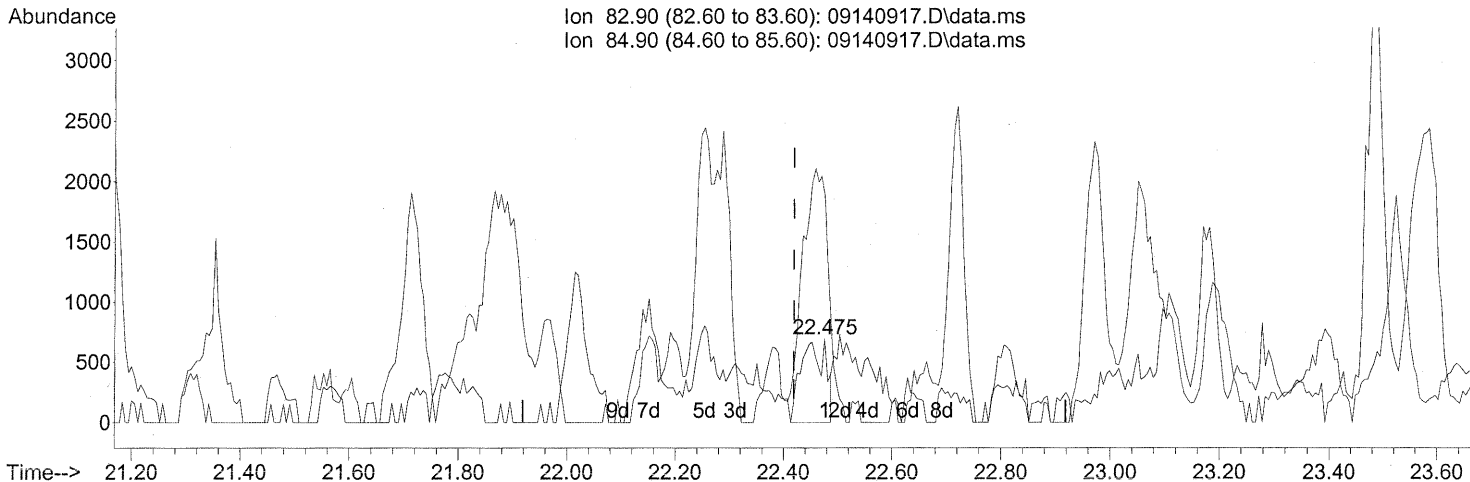
(71) n-Nonane (T)
 22.714min (-0.011) 0.53ng
 response 11693

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	97.00
85.10	33.10	42.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.475min (+0.057) 0.11ng

response 2126

Ion	Exp%	Act%
82.90	100	100
84.90	63.40	333.07#
0.00	0.00	0.00
0.00	0.00	0.00

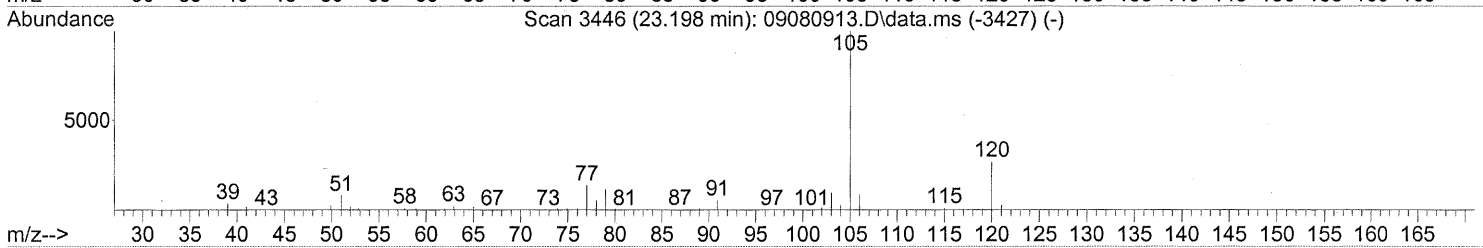
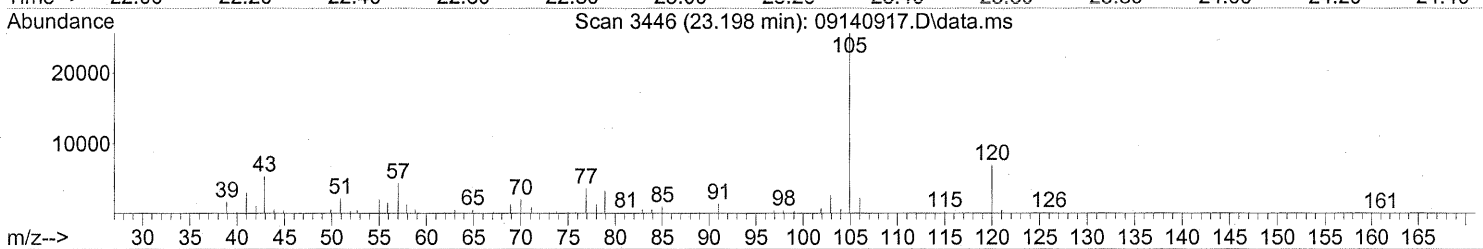
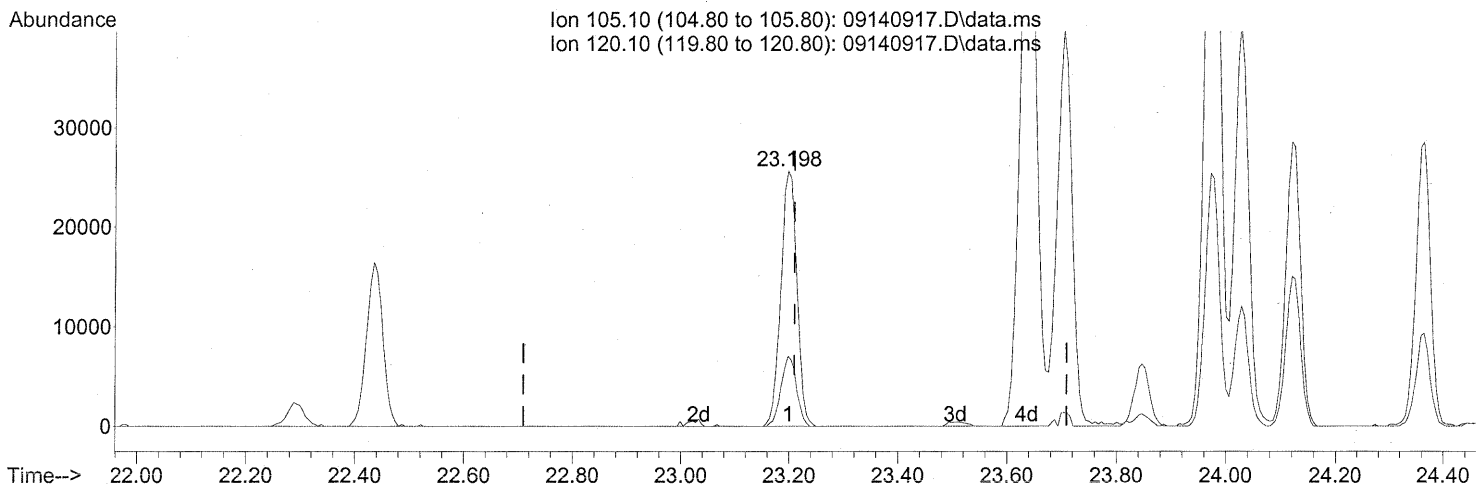
FP in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

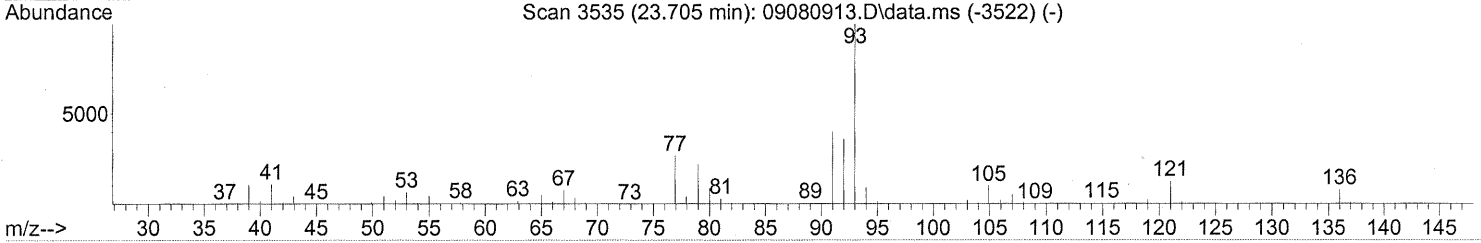
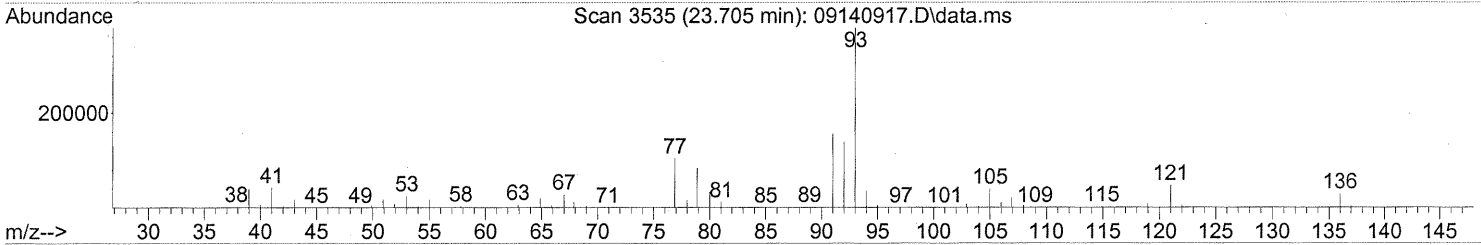
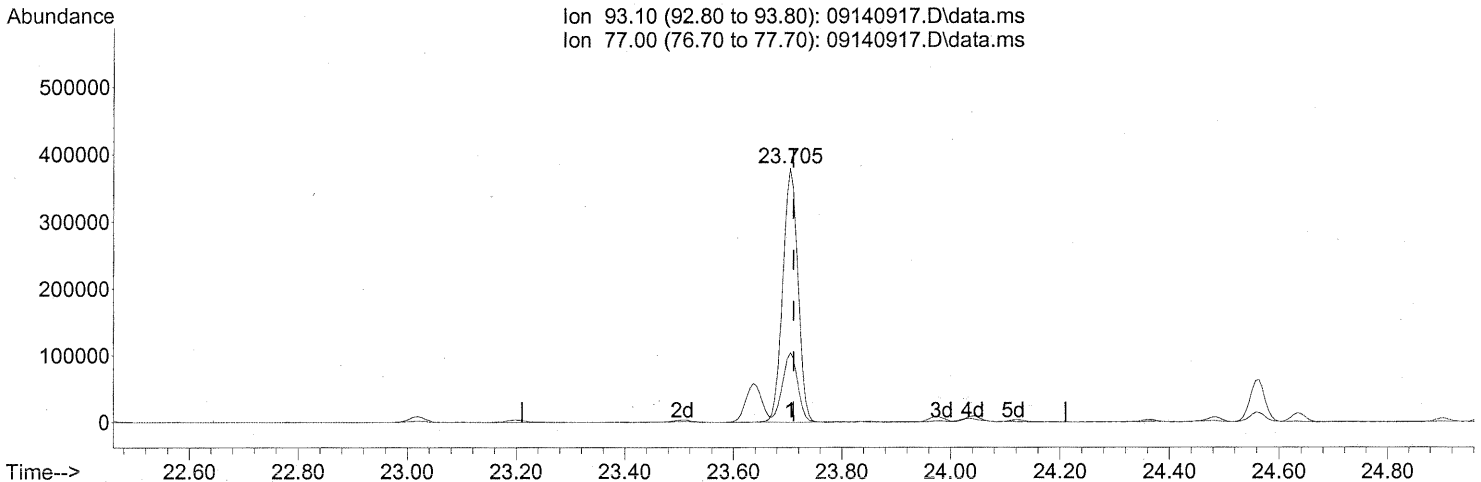
(74) Cumene (T)
 23.198min (-0.011) 0.84ng
 response 52414

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	26.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



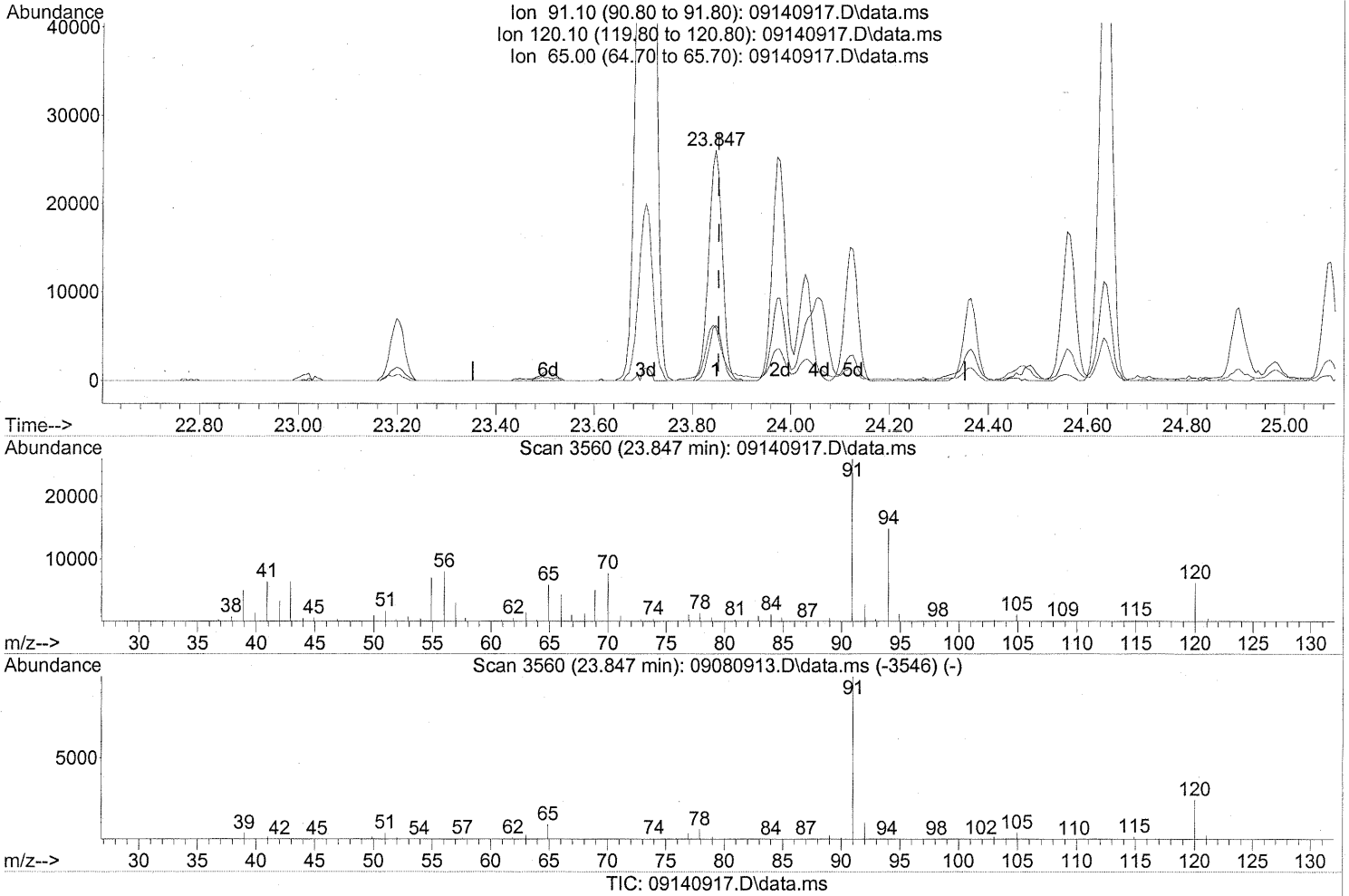
(75) alpha-Pinene (T)
 23.705min (-0.006) 25.05ng
 response 735881

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 0.69ng

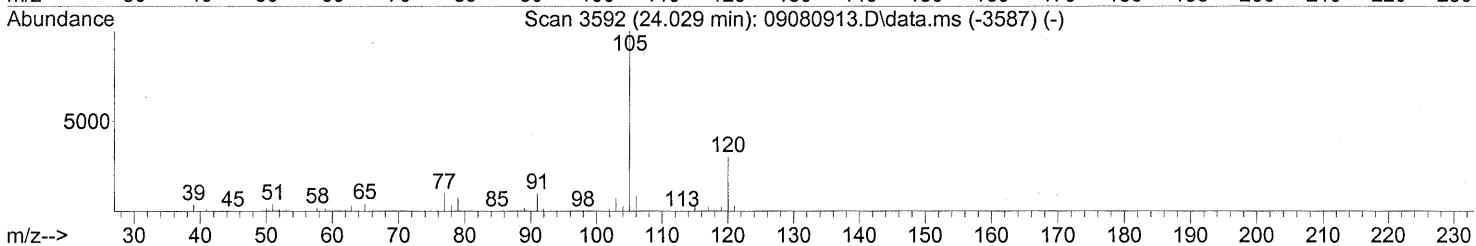
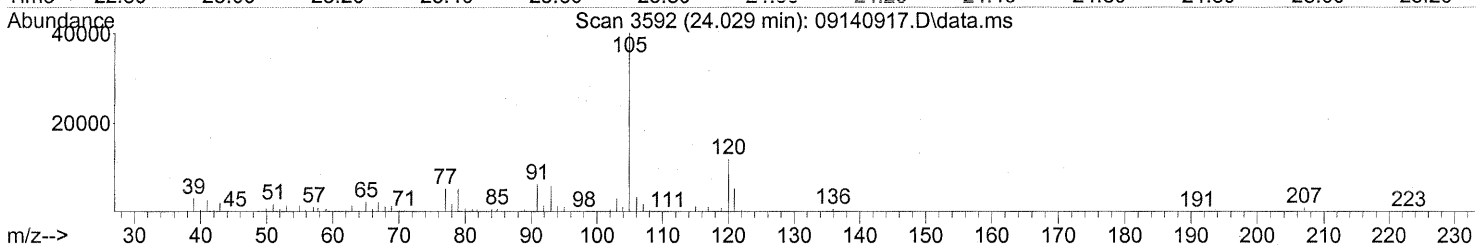
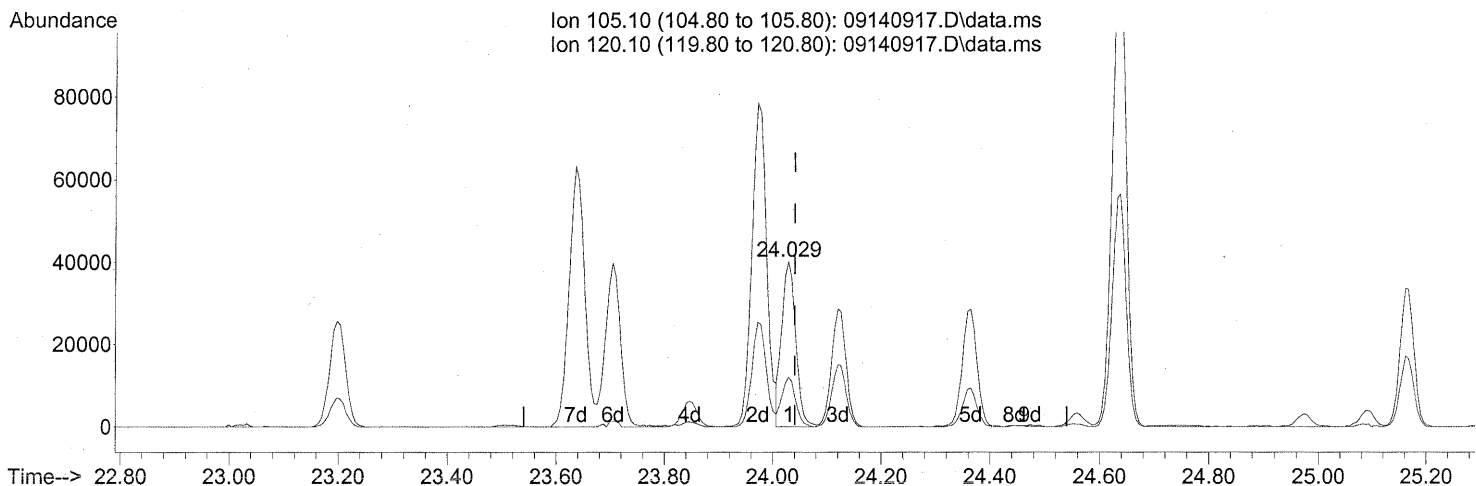
response 50587

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	23.71
65.00	10.30	31.29#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(78) 4-Ethyltoluene (T)

24.029min (-0.011) 1.23ng

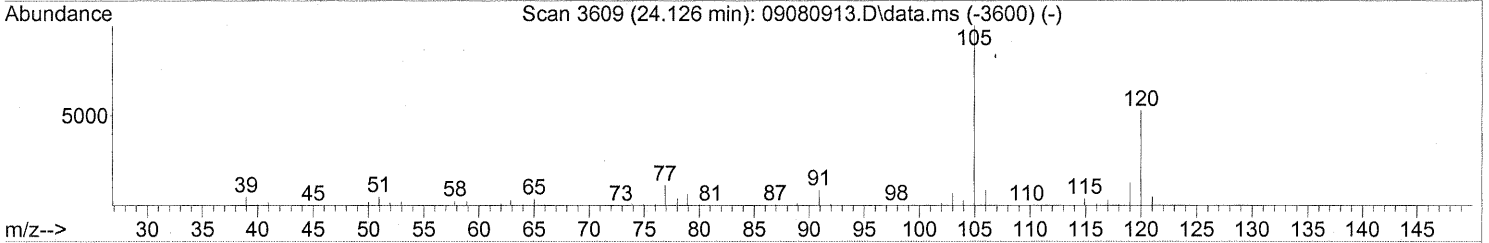
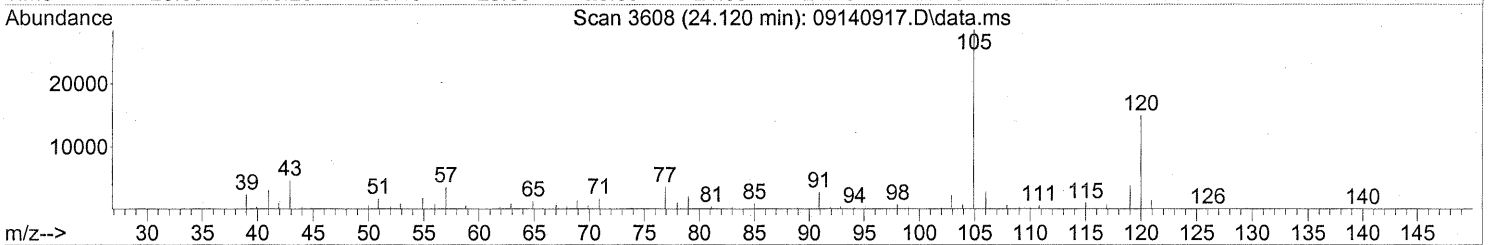
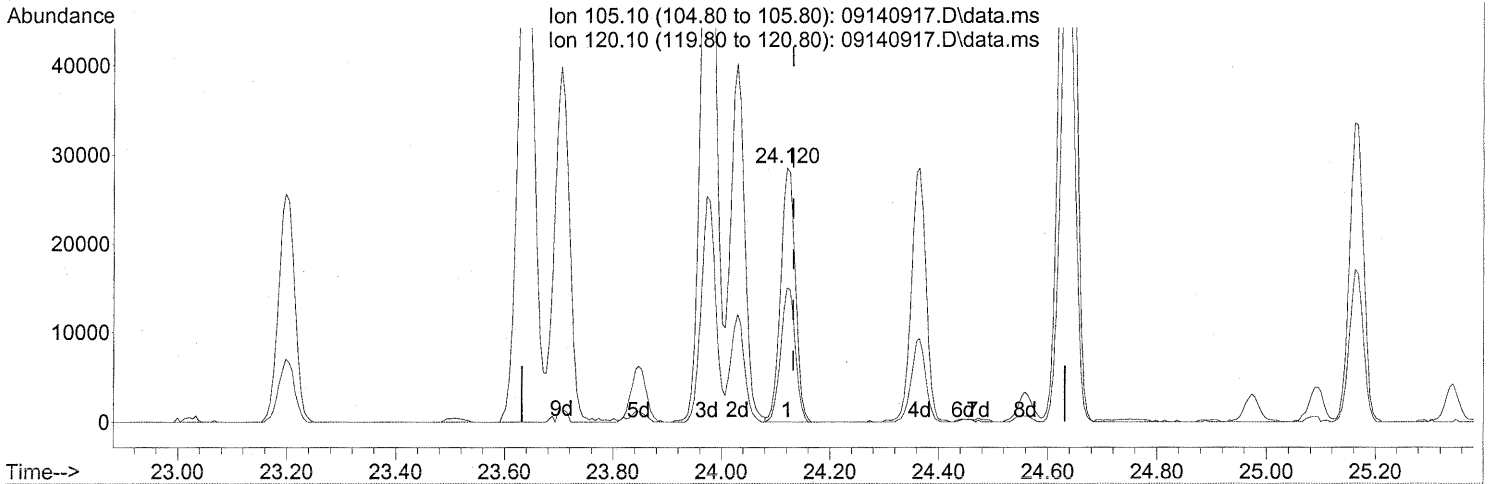
response 71536

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	29.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140917.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 1.10ng

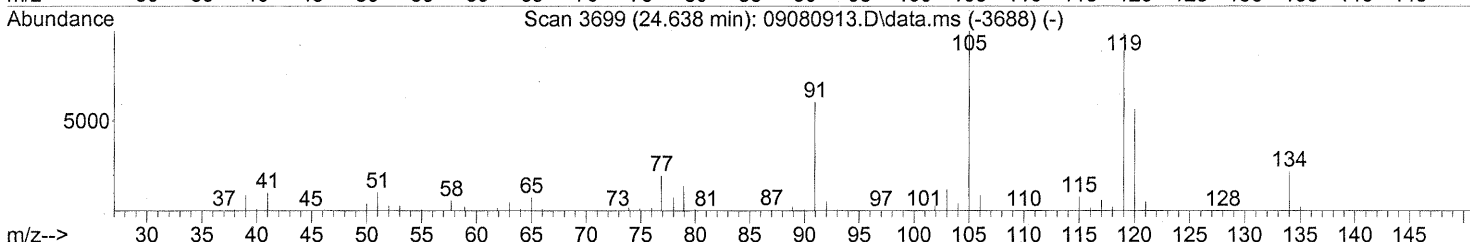
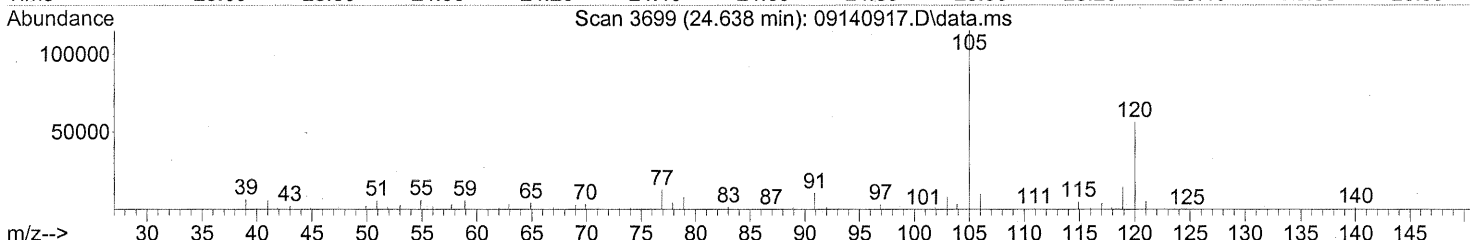
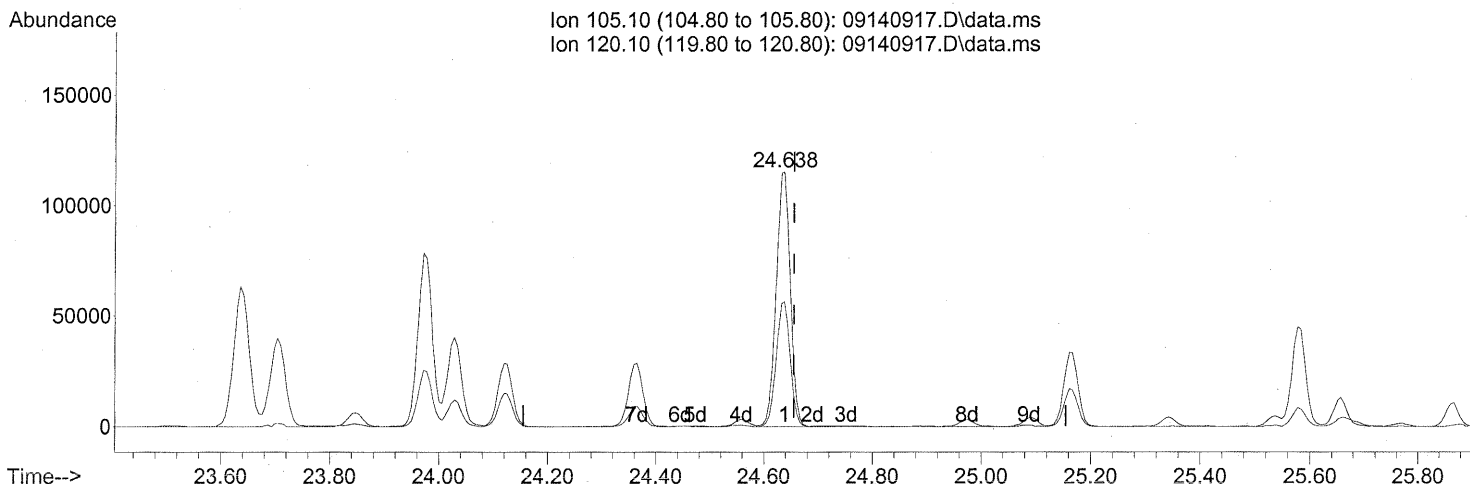
response 53359

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	52.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 4.03ng

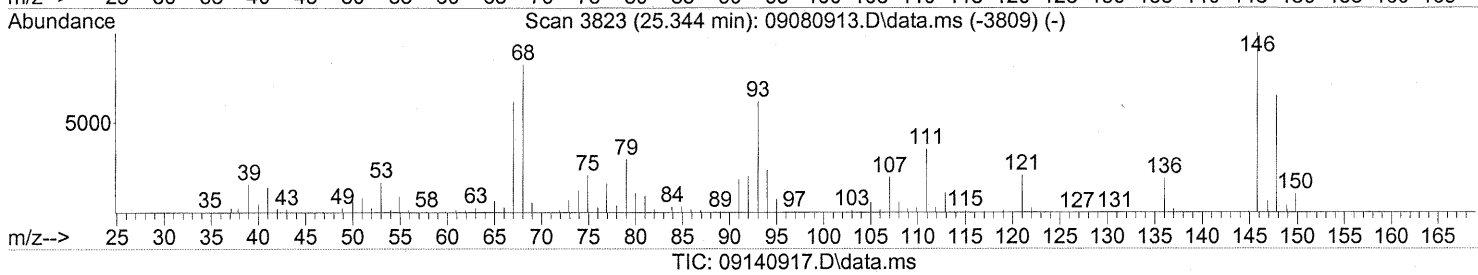
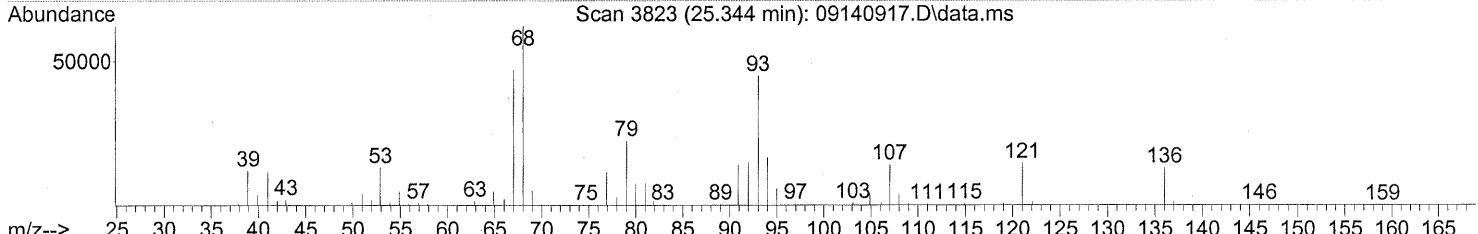
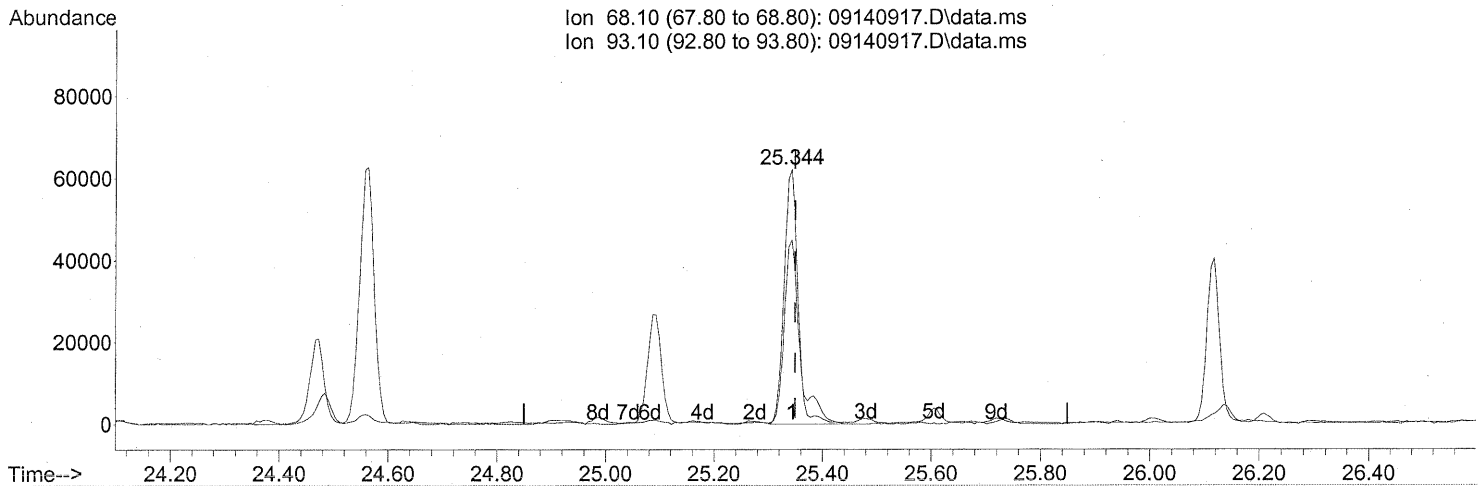
response 208647

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



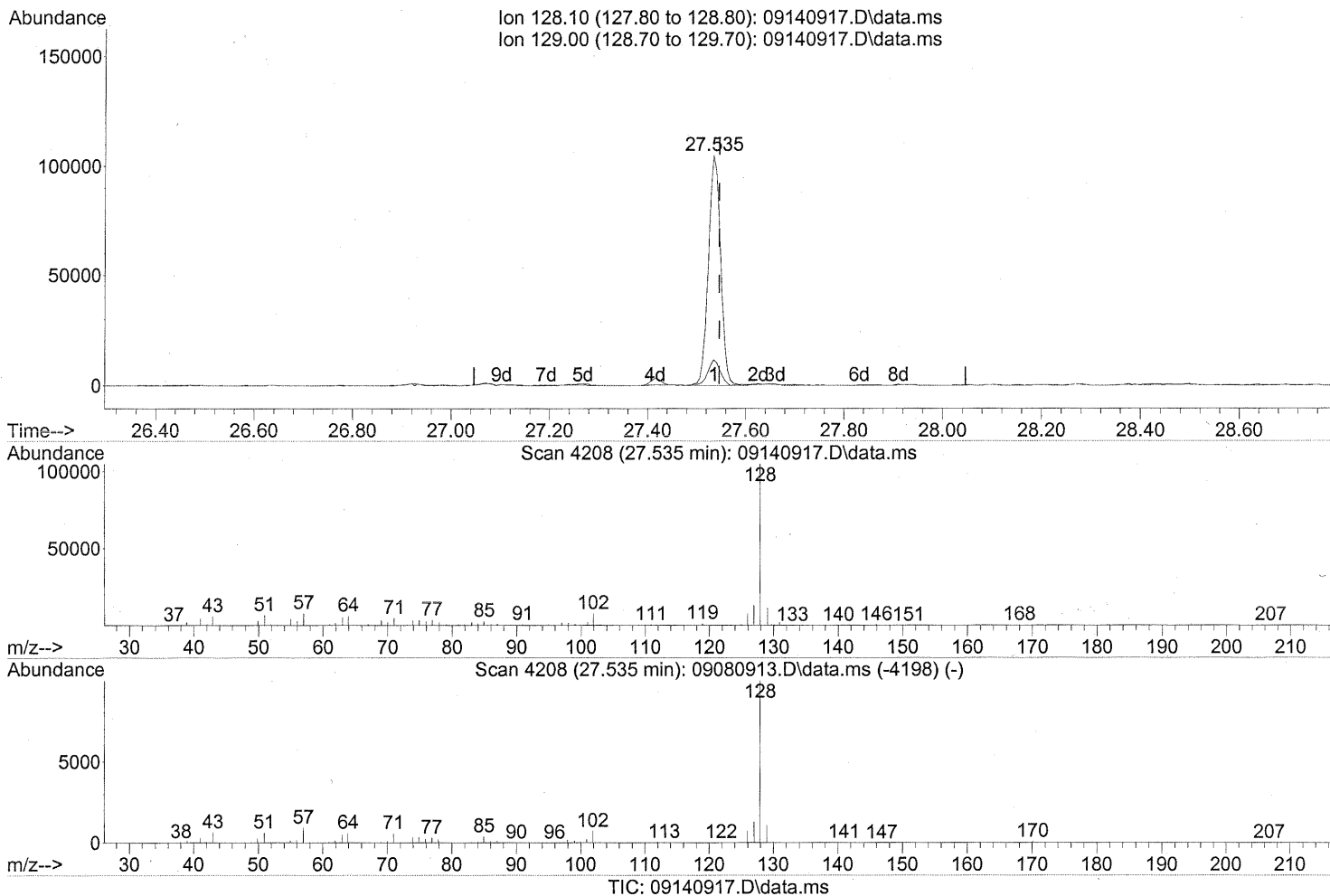
(91) d-Limonene (T)
 25.344min (-0.006) 5.90ng
 response 109744

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	82.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140917.D
 Acq On : 14 Sep 2009 17:14
 Operator : LH
 Sample : P0903145-001 (1000mL)
 Misc : Environmental H & E 102648
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 10:09:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 2.42ng

response 181906

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.51
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102649
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01029

CAS Project ID: P0903145
CAS Sample ID: P0903145-002

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.3	0.62	0.76	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.62	0.56	0.12	
74-87-3	Chloromethane	0.61	0.12	0.30	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	100	6.2	55	3.3	
75-05-8	Acetonitrile	72	0.62	43	0.37	
107-02-8	Acrolein	2.6	0.62	1.1	0.27	
67-64-1	Acetone	40	6.2	17	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.9	0.62	2.4	0.25	M1
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.72	0.12	0.094	0.016	
75-15-0	Carbon Disulfide	ND	0.62	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	2.8	0.62	0.96	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

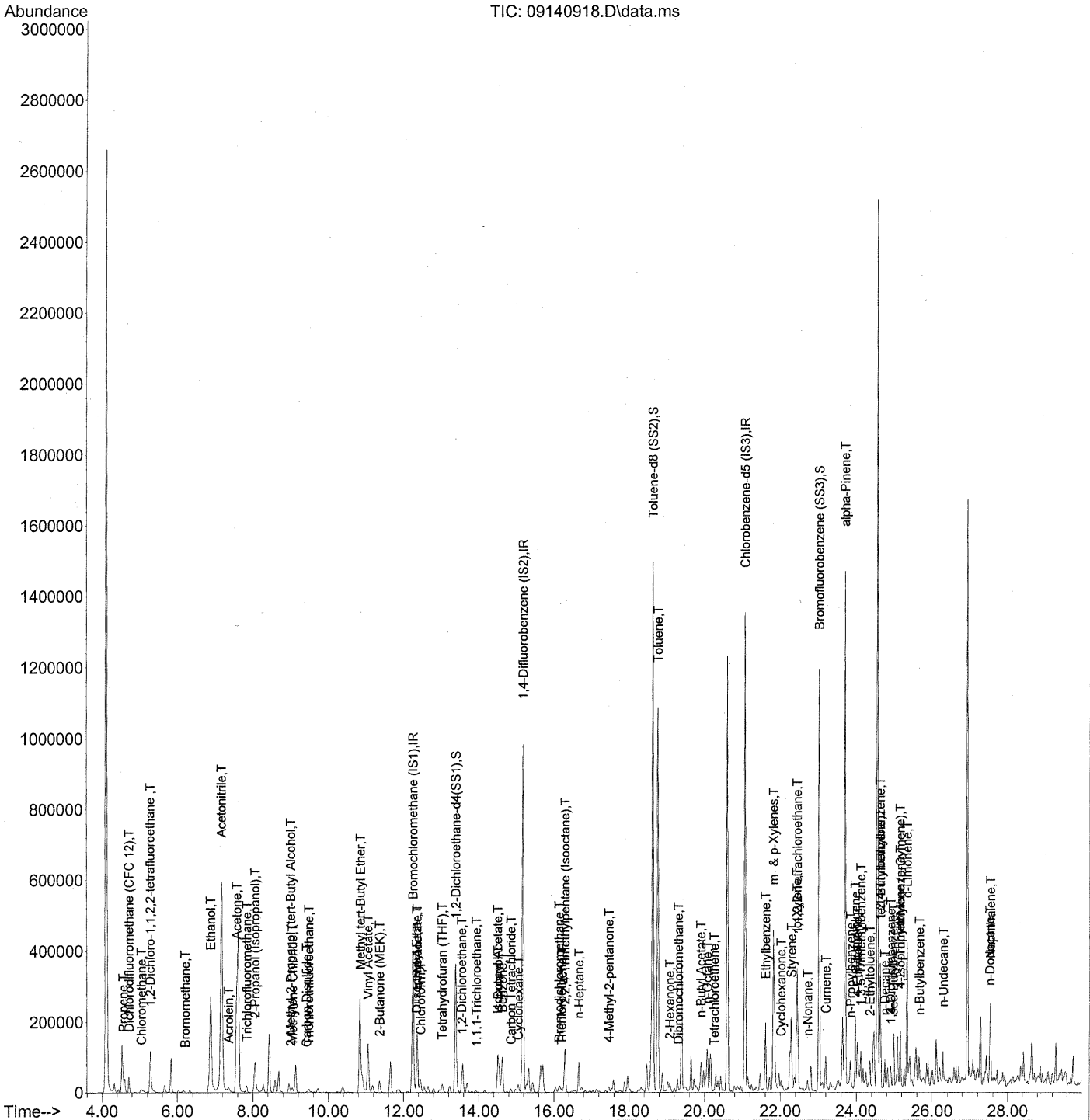
Verified By: _____

Date: 9/22/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649 ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 10:19:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649 ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 10:19:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

LH 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	274515	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.17	114	1324558	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	557657	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	369878	24.449	ng	-0.03
Spiked Amount	25.000			Recovery =	97.80%	✓
57) Toluene-d8 (SS2)	18.63	98	1387722	24.860	ng	-0.01
Spiked Amount	25.000			Recovery =	99.44%	✓
73) Bromofluorobenzene (SS3)	23.02	174	526891	26.340	ng	0.00
Spiked Amount	25.000			Recovery =	105.36%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	11868m	1.062	ng	
3) Dichlorodifluoromethan...	4.72	85	48342	2.262	ng	99
4) Chloromethane	5.04	50	8722	0.498	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1008	0.079	ng	74
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	259	N.D.		
8) Bromomethane	6.21	94	810	0.073	ng	# 77
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.89	45	677779m	83.636	ng	
11) Acetonitrile	7.17	41	1206799	58.879	ng	99
12) Acrolein	7.36	56	12640	2.096	ng	99
13) Acetone	7.58	58	265914	32.571	ng	# 84
14) Trichlorofluoromethane	7.84	101	22279	1.125	ng	97
15) 2-Propanol (Isopropanol)	8.06	45	135857m	4.832	ng	M
16) Acrylonitrile	8.36	53	572	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.00	59	7247	0.249	ng	# 66
19) Methylene Chloride	9.04	84	5436	0.437	ng	80
20) 3-Chloro-1-propene (Al...	9.23	41	351	N.D.		
21) Trichlorotrifluoroethane	9.48	151	5728	0.587	ng	83
22) Carbon Disulfide	9.42	76	8465	0.196	ng	95
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.84	63	455	N.D.		
25) Methyl tert-Butyl Ether	10.85	73	5853	0.187	ng	# FP 53
26) Vinyl Acetate	11.05	86	10091	4.104	ng	# 49
27) 2-Butanone (MEK)	11.36	72	18064	2.303	ng	# 76
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.35	87	1907	0.210	ng	# 1
30) Ethyl Acetate	12.36	61	6359	1.597	ng	# 75
31) n-Hexane	12.36	57	97196	6.163	ng	93

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 10:19:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	41680	2.154 ng		100
34) Tetrahydrofuran (THF)	13.03	72	2121	0.292 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	10979	0.823 ng		99
38) 1,1,1-Trichloroethane	13.93	97	1155	0.069 ng		84
39) Isopropyl Acetate	14.50	61	677	0.092 ng	#	1
40) 1-Butanol	14.51	56	109795	9.188 ng		85
41) Benzene	14.63	78	142653	3.020 ng		99
42) Carbon Tetrachloride	14.86	117	6737	0.474 ng		97
43) Cyclohexane	15.05	84	14498	0.841 ng		89
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.14	83	9148	0.626 ng	#	73
47) Trichloroethene	16.21	130	2399	0.169 ng		98
48) 1,4-Dioxane	16.19	88	67	N.D.		
49) 2,2,4-Trimethylpentane...	16.30	57	159563	3.353 ng		98
50) Methyl Methacrylate	16.49	100	238	N.D.		
51) n-Heptane	16.67	71	28220	2.341 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	5840	0.554 ng		88
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.25	97	251	N.D.		
58) Toluene	18.76	91	1006236	19.310 ng		99
59) 2-Hexanone	19.08	43	17690	0.704 ng		88
60) Dibromochloromethane	19.32	129	788	0.061 ng	#	11
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	59182	2.058 ng		84
63) n-Octane	20.07	57	21858	2.235 ng		91
64) Tetrachloroethene	20.26	166	1710	0.106 ng		96
65) Chlorobenzene	21.12	112	650	N.D.		
66) Ethylbenzene	21.61	91	186646	3.262 ng		96
67) m- & p-Xylenes	21.82	91	478058	10.689 ng		95
68) Bromoform	21.92	173	56	N.D.		
69) Styrene	22.29	104	51709	1.408 ng		97
70) o-Xylene	22.44	91	170235	3.725 ng		95
71) n-Nonane	22.71	43	12999	0.586 ng		94
72) 1,1,2,2-Tetrachloroethane	22.45	83	1629	0.082 ng	#	19
74) Cumene	23.20	105	51475	0.823 ng		98
75) alpha-Pinene	23.70	93	750343	25.528 ng		96
76) n-Propylbenzene	23.85	91	51166	0.700 ng		94
77) 3-Ethyltoluene	23.97	105	150263	2.542 ng		99
78) 4-Ethyltoluene	24.03	105	71534	1.226 ng		98
79) 1,3,5-Trimethylbenzene	24.12	105	55563	1.144 ng		95

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 10:19:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

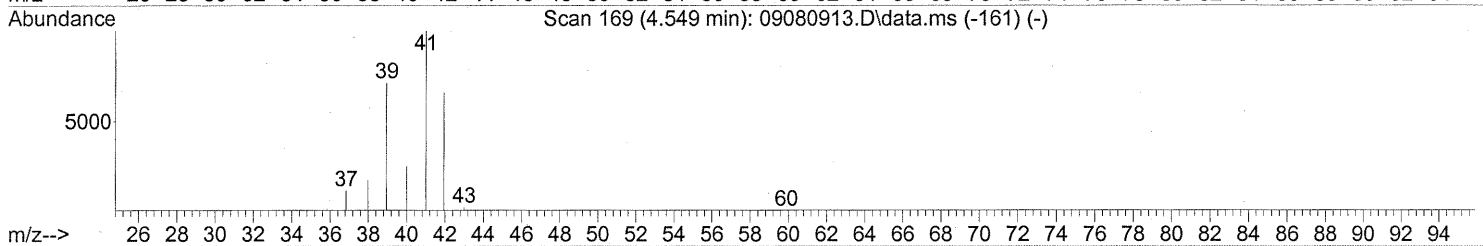
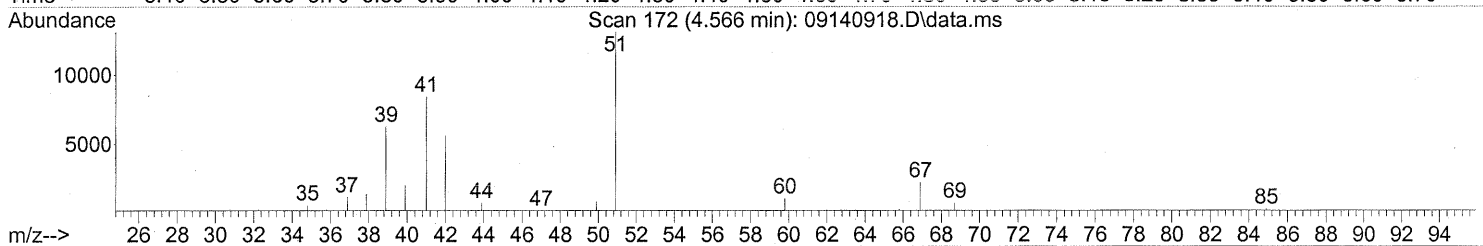
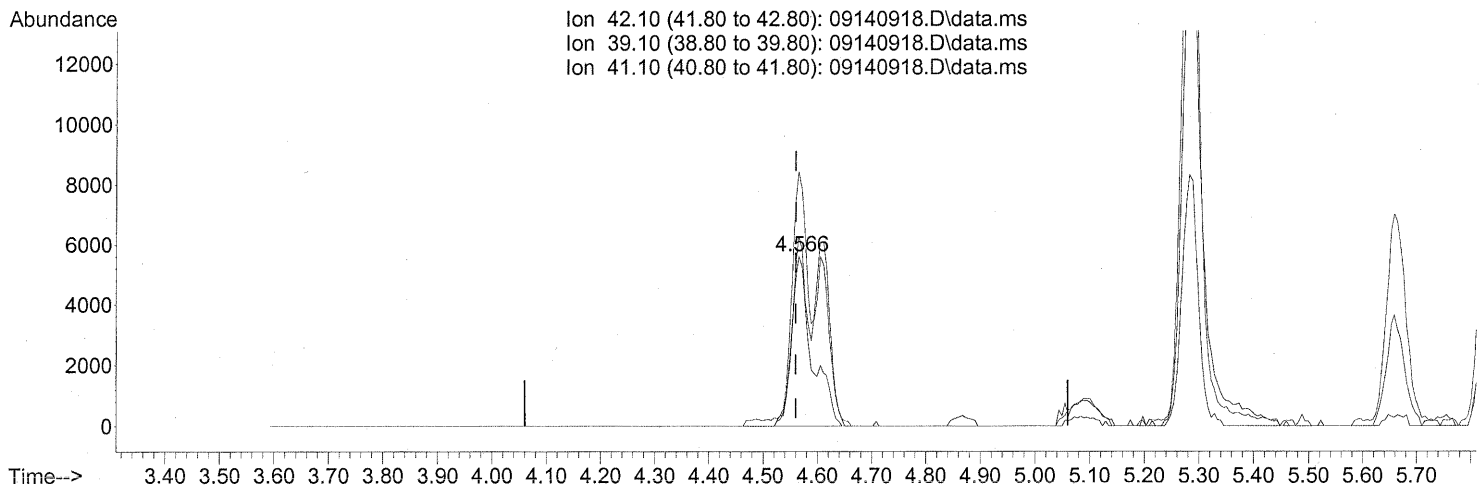
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	1274	N.D.		
81) 2-Ethyltoluene	24.36	105	54745	0.883 ng		99
82) 1,2,4-Trimethylbenzene	24.63	105	213134	4.113 ng		92
83) n-Decane	24.75	57	33266	1.226 ng		80
84) Benzyl Chloride	24.84	91	1228	N.D.		
85) 1,3-Dichlorobenzene	24.91	146	2617	0.087 ng		98
86) 1,4-Dichlorobenzene	24.91	146	2617	0.083 ng		99
87) sec-Butylbenzene	24.97	105	5329	0.079 ng	#	75
88) 4-Isopropyltoluene (p-...	25.16	119	41893	0.637 ng		95
89) 1,2,3-Trimethylbenzene	25.16	105	62246	1.227 ng		97
90) 1,2-Dichlorobenzene	25.34	146	1185	N.D.		
91) d-Limonene	25.34	68	113361	6.090 ng		78
92) 1,2-Dibromo-3-Chloropr...	26.29	157	55	N.D.		
93) n-Undecane	26.29	57	31639	1.011 ng		81
94) 1,2,4-Trichlorobenzene	27.40	180	289	N.D.		
95) Naphthalene	27.53	128	176321	2.343 ng		98
96) n-Dodecane	27.52	57	31167	1.011 ng		94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.02	55	16112	0.836 ng	#	81
99) tert-Butylbenzene	24.64	119	27592	0.541 ng	#	55
100) n-Butylbenzene	25.66	91	21469	0.413 ng	#	37

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140918.D
Acq On : 14 Sep 2009 17:53
Operator : LH
Sample : P0903145-002 (1000mL)
Misc : Environmental H & E 102649
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(2) Propene (T)

4.566min (+0.006) 1.30ng

SH

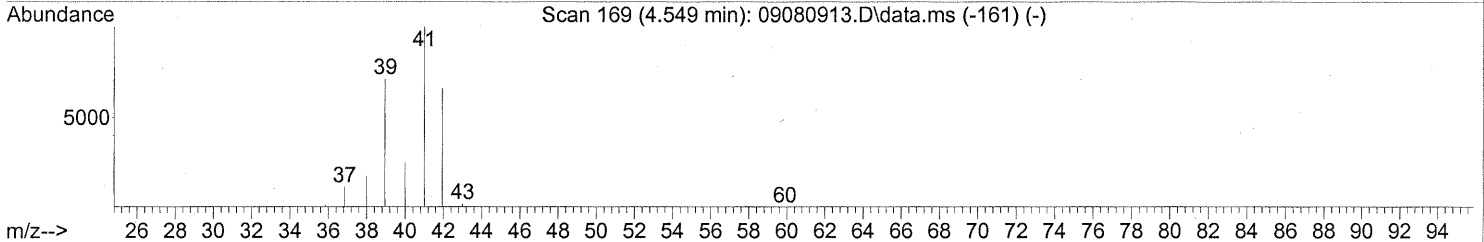
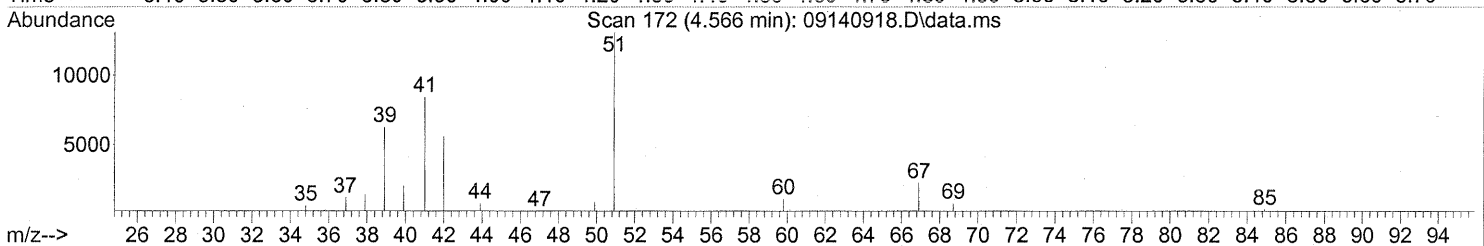
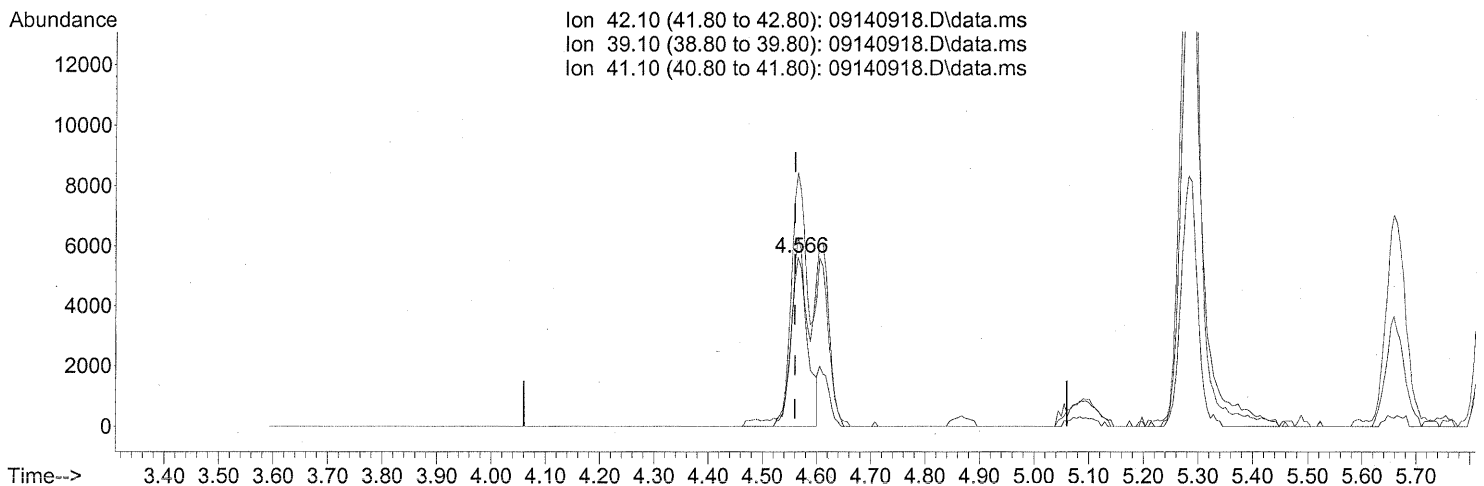
response 14483

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	83.35#
41.10	152.10	123.45#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.566min (+0.006) 1.06ng m
 response 11868

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	101.71
41.10	152.10	150.65
0.00	0.00	0.00

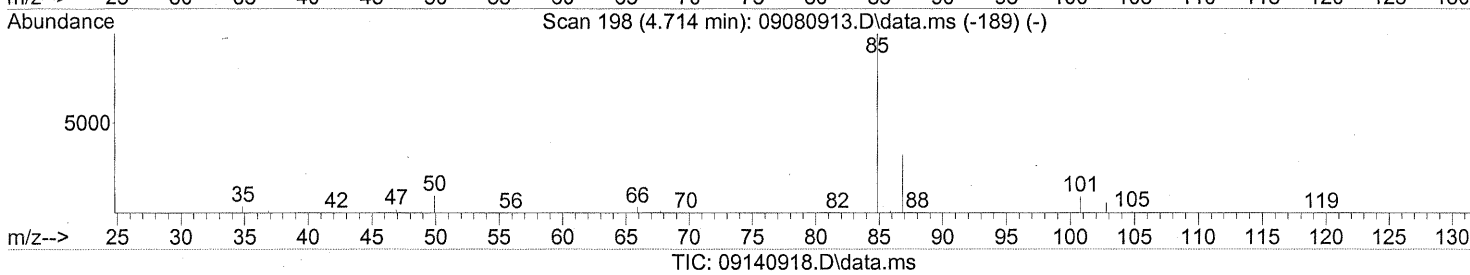
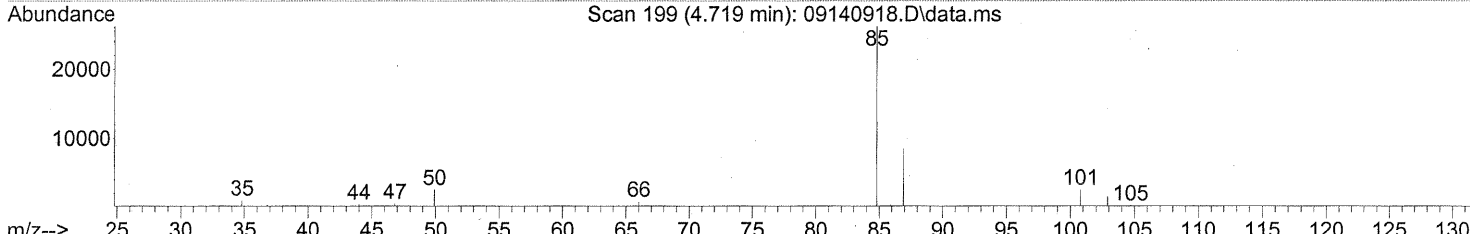
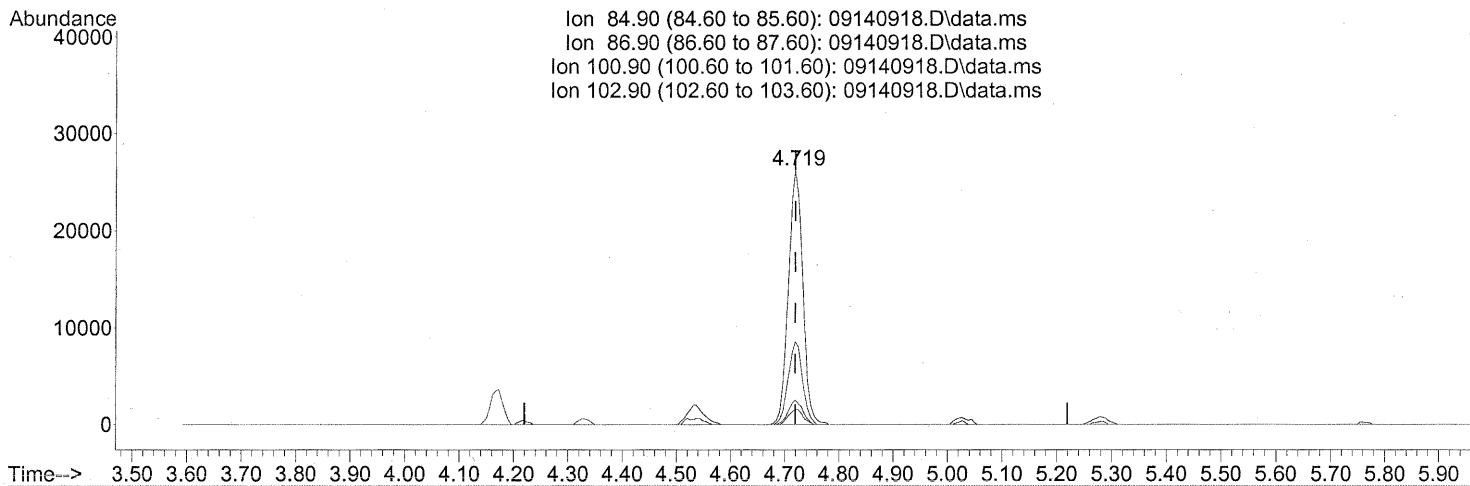
SH → IC
 in 9/18/09

SA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
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 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (-0.000) 2.26ng

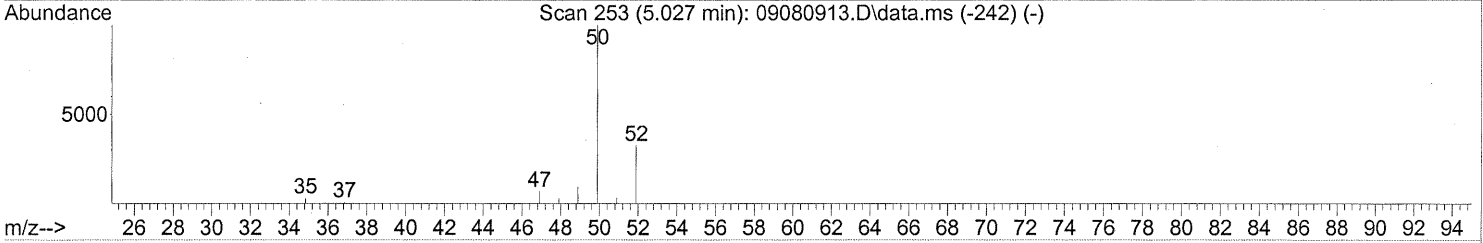
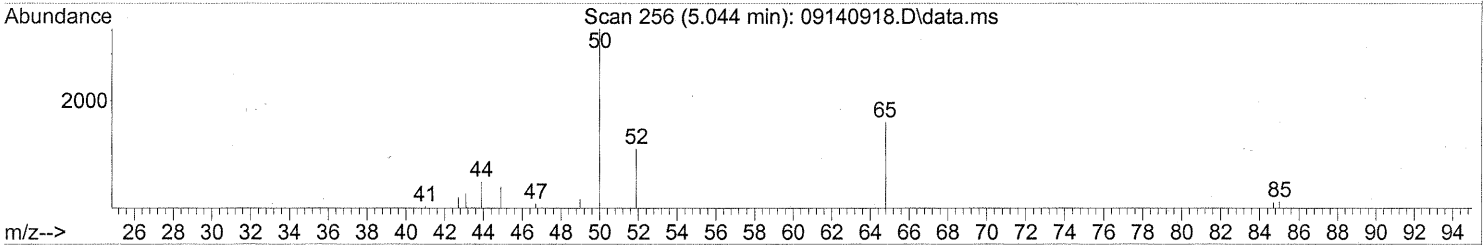
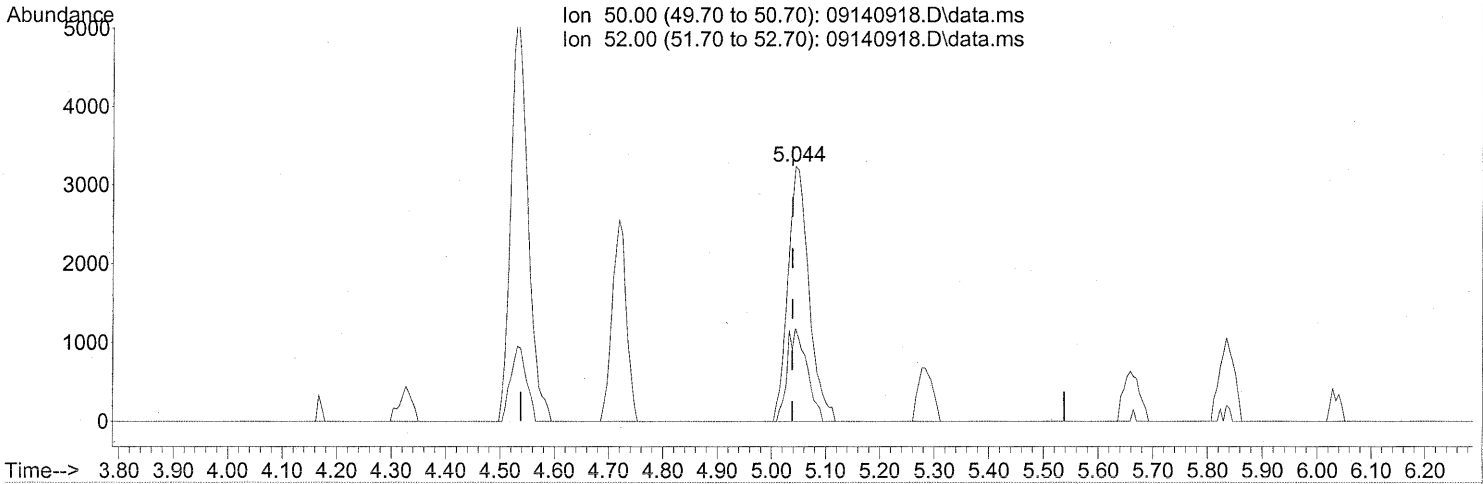
response 48342

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.62
100.90	8.60	9.54
102.90	5.90	5.98

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(4) Chloromethane (T)

5.044min (+0.006) 0.50ng

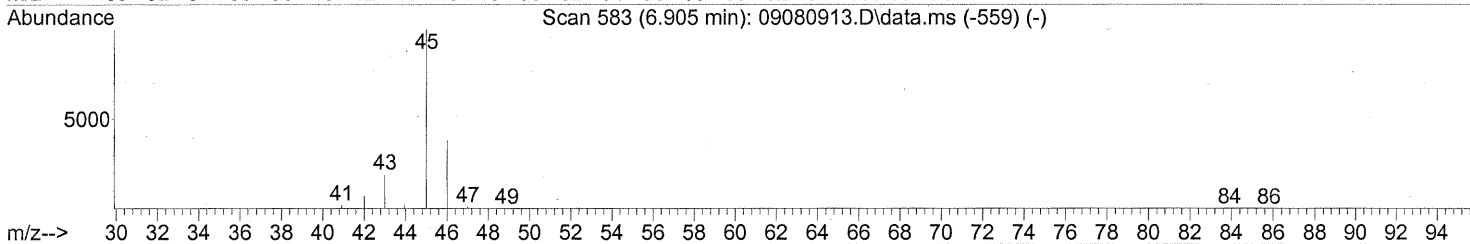
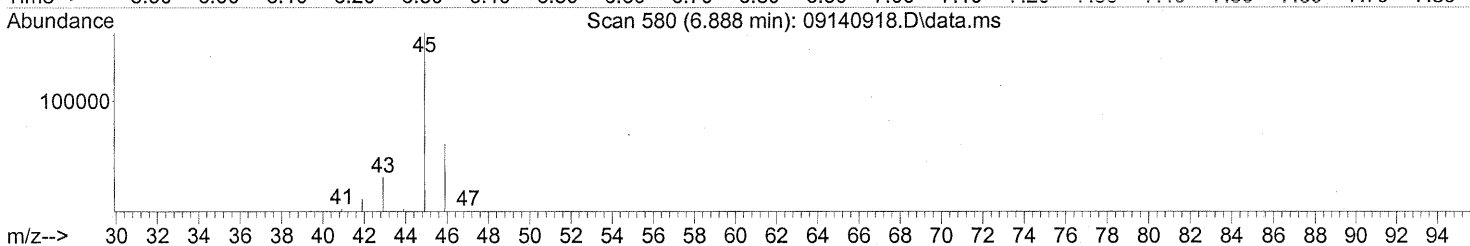
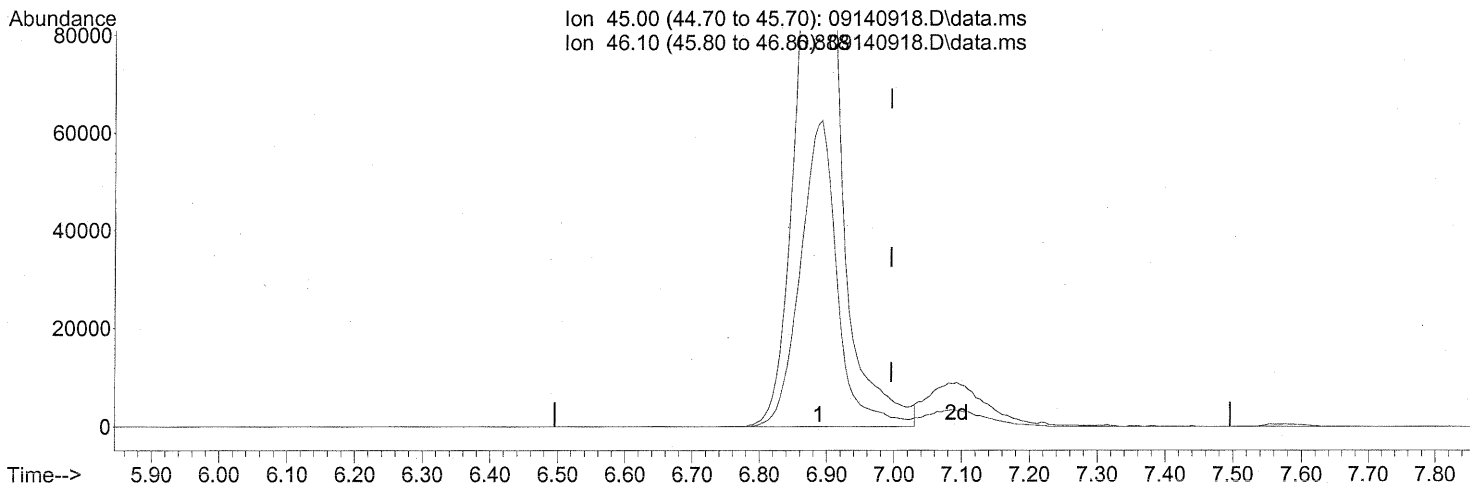
response 8722

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	34.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(10) Ethanol (T)

6.888min (-0.108) 76.80ng

response 622356

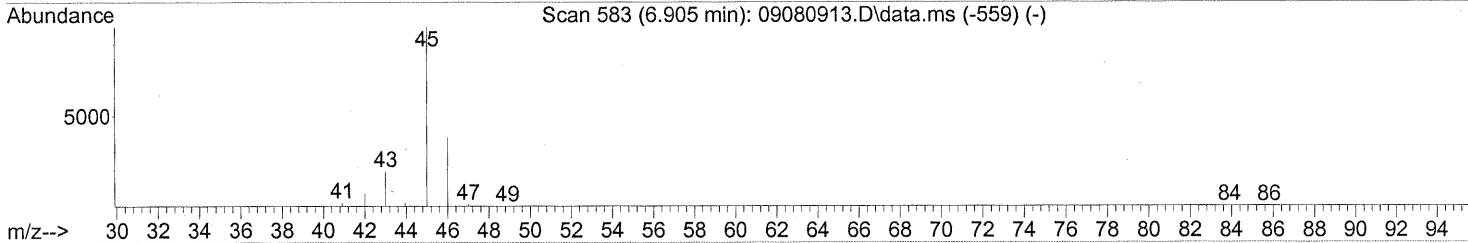
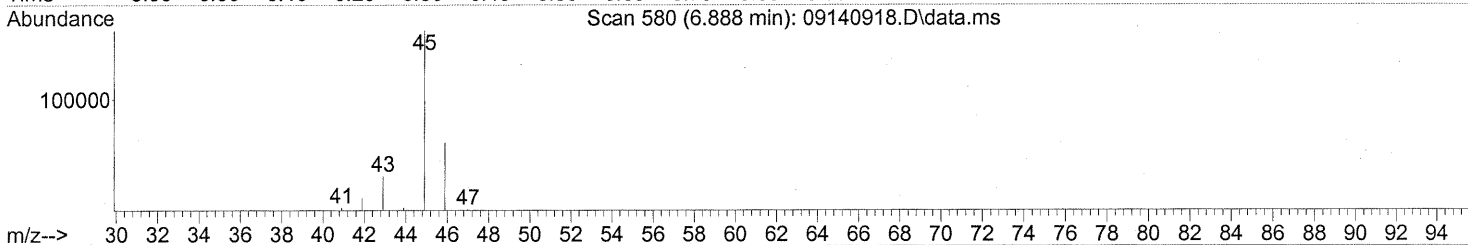
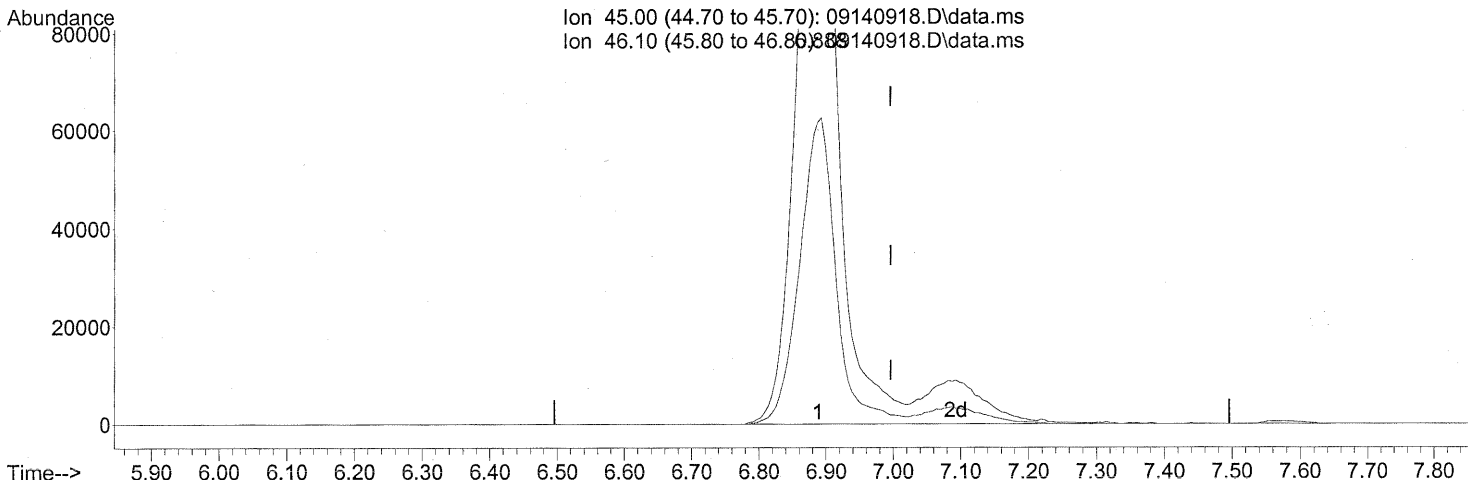
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.06
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.888min (-0.108) 83.64ng m
 response 677779

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	34.95
0.00	0.00	0.00
0.00	0.00	0.00

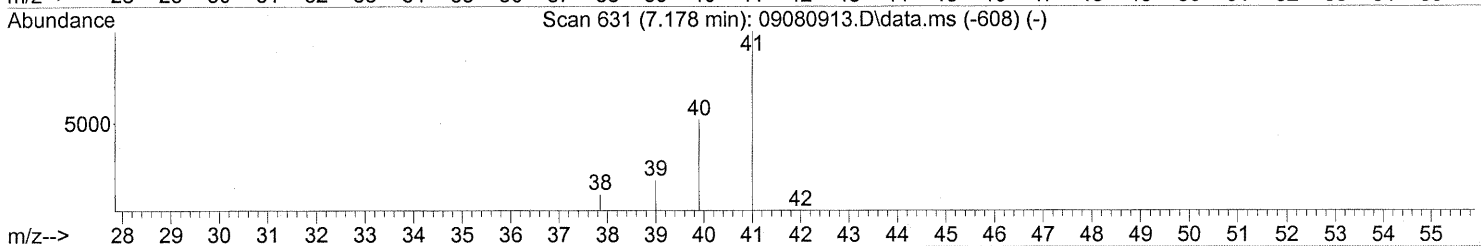
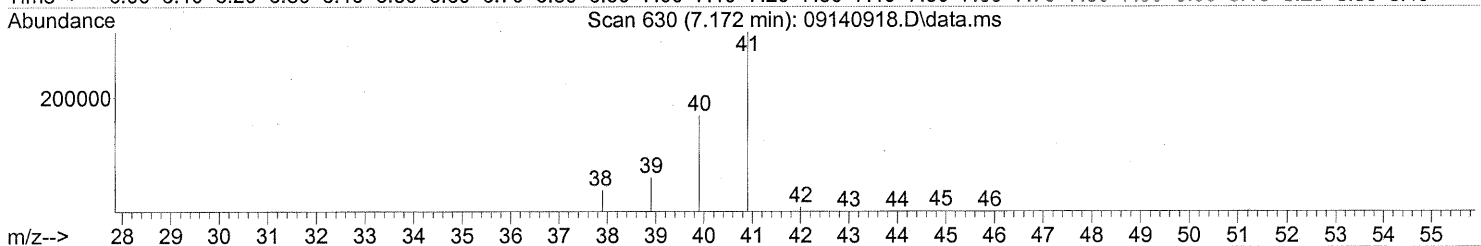
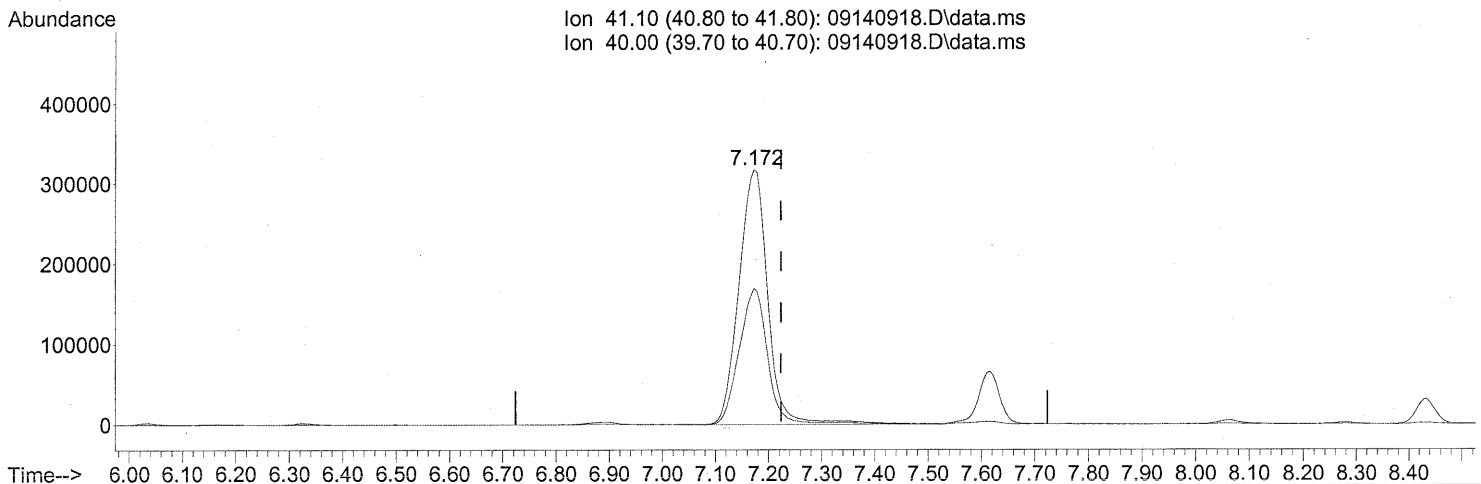
PT → IC
LH 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(11) Acetonitrile (T)

7.172min (-0.051) 58.88ng

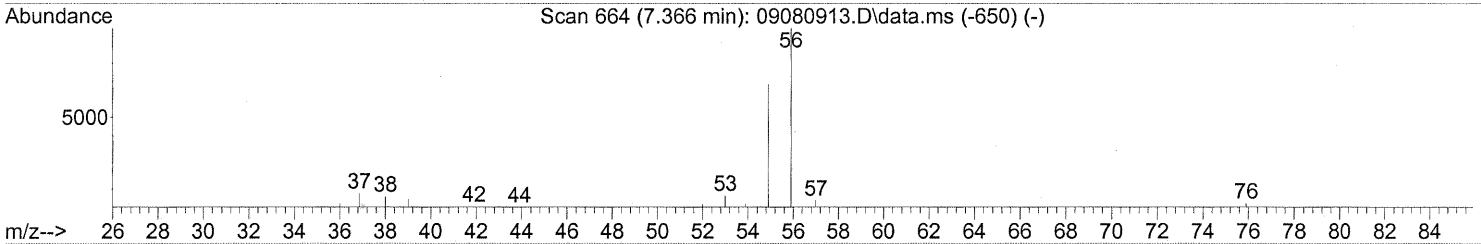
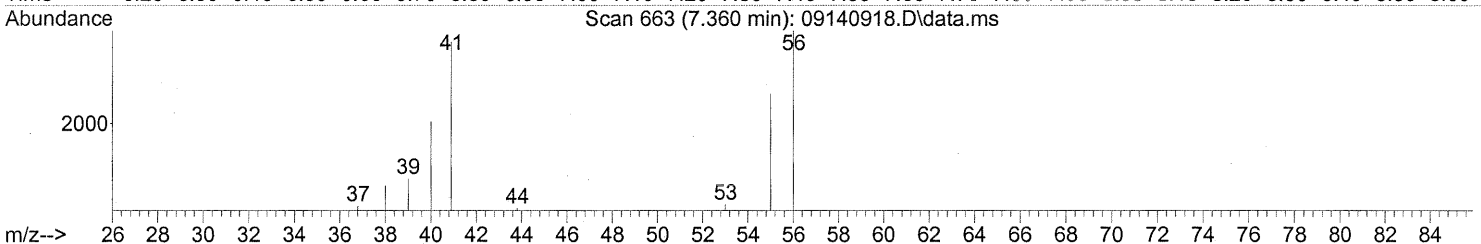
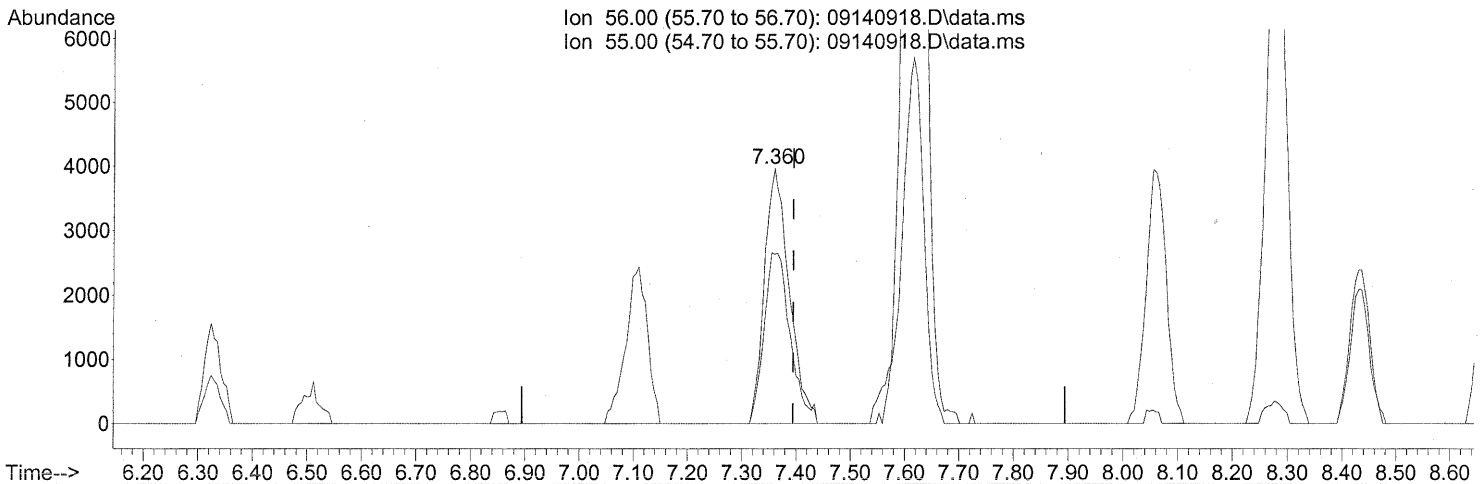
response 1206799

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(12) Acrolein (T)

7.360min (-0.034) 2.10ng

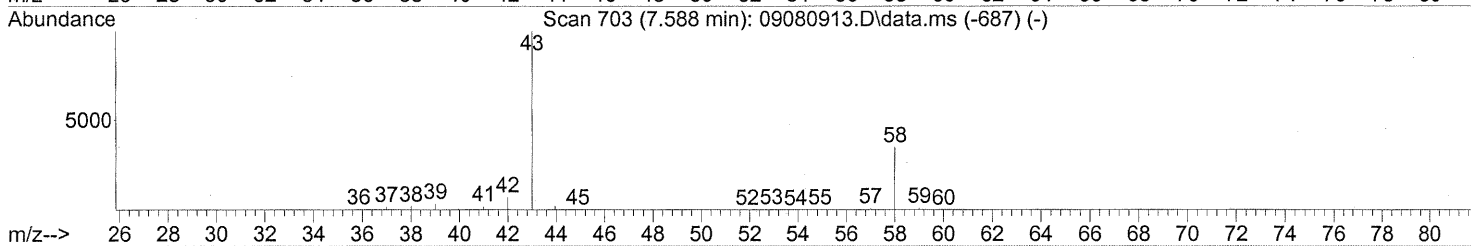
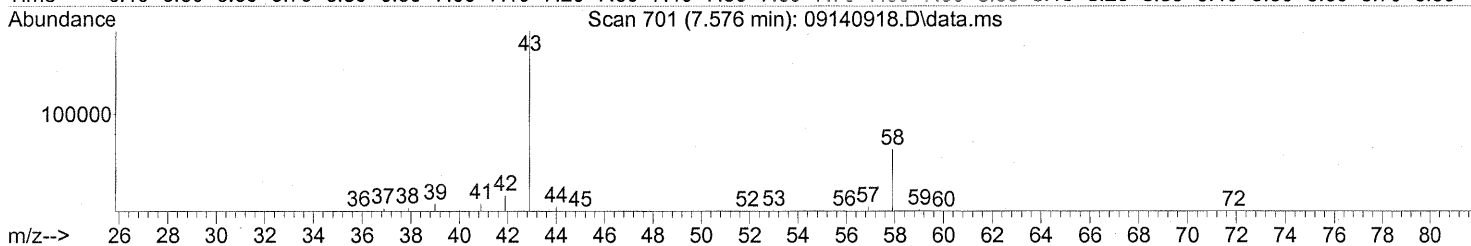
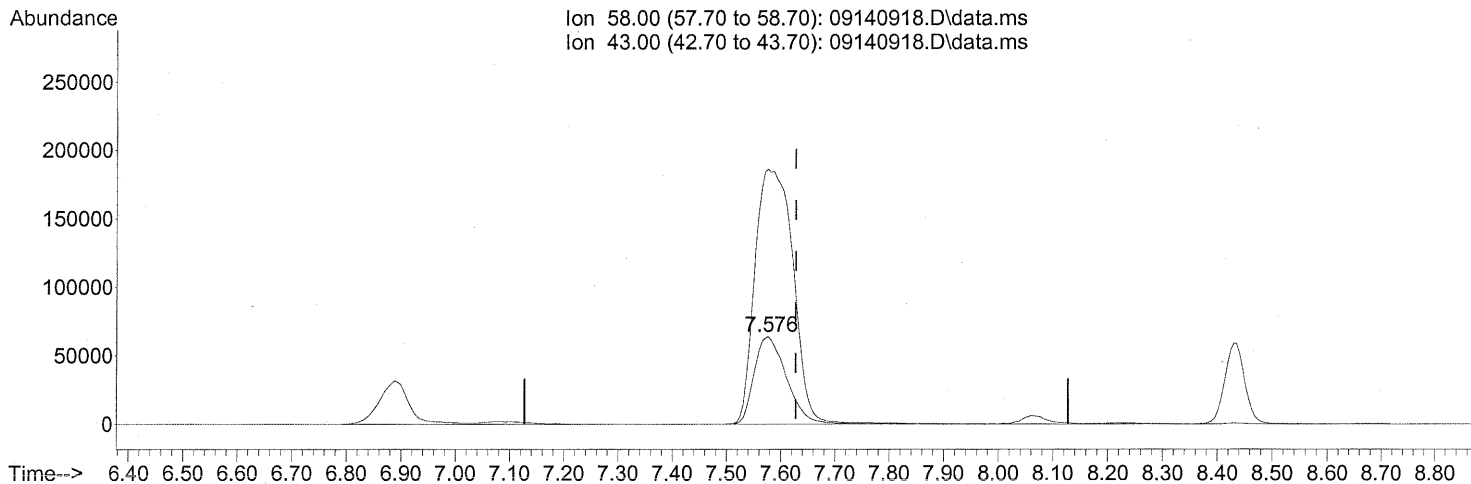
response 12640

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	70.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.576min (-0.051) 32.57ng

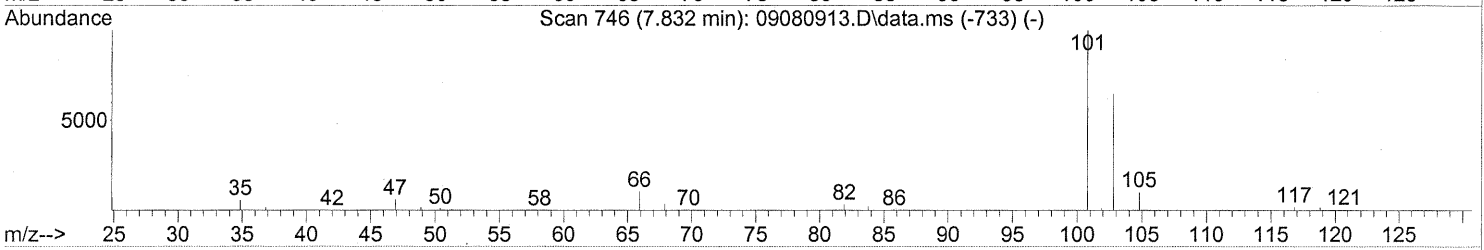
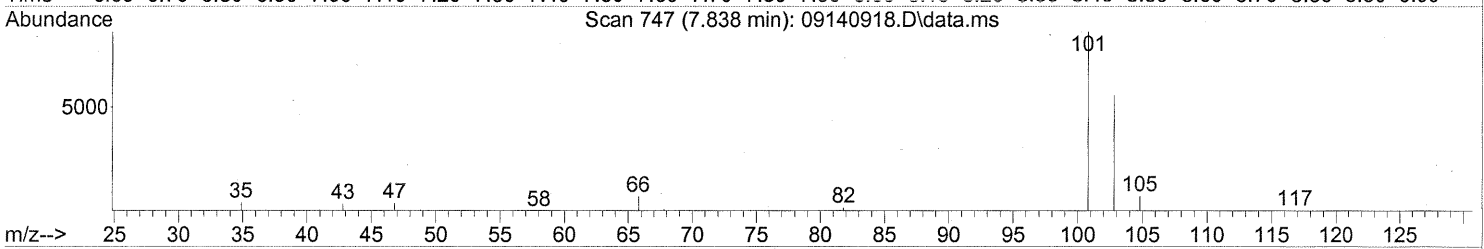
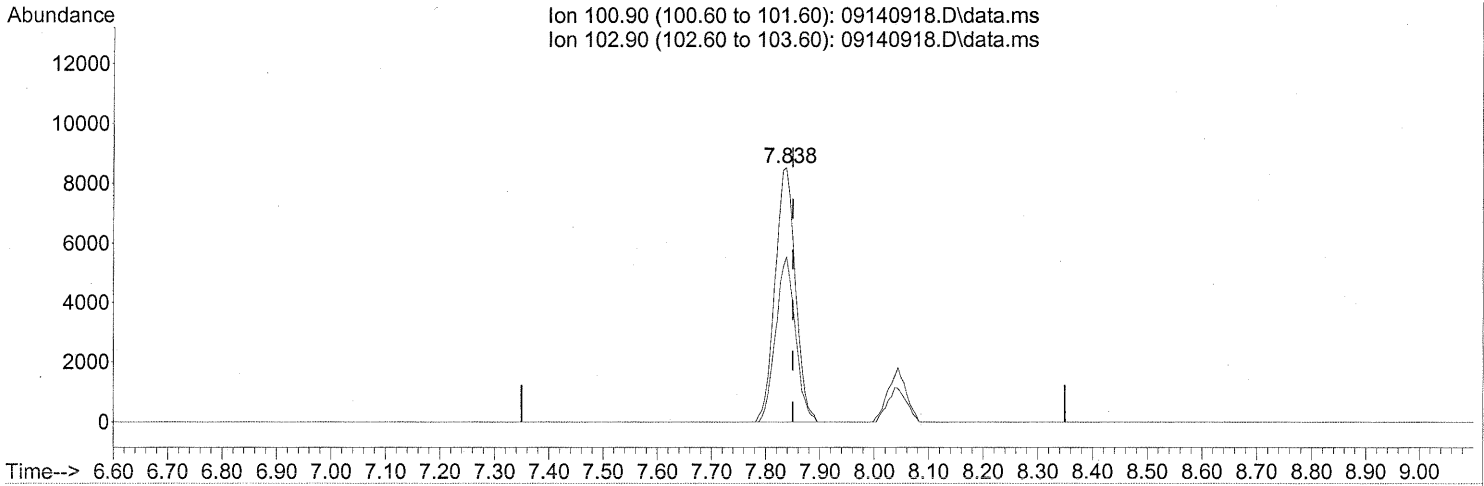
response 265914

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	343.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.13ng

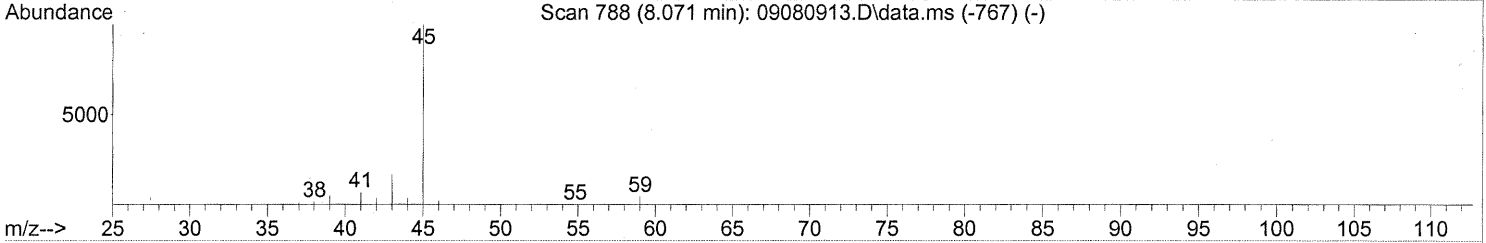
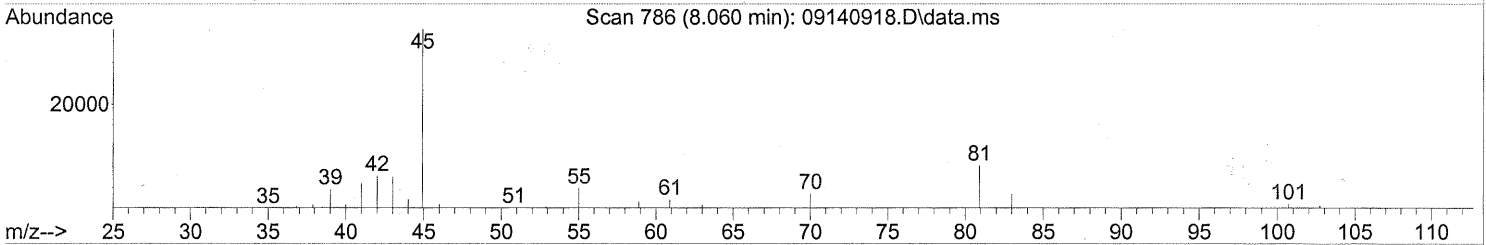
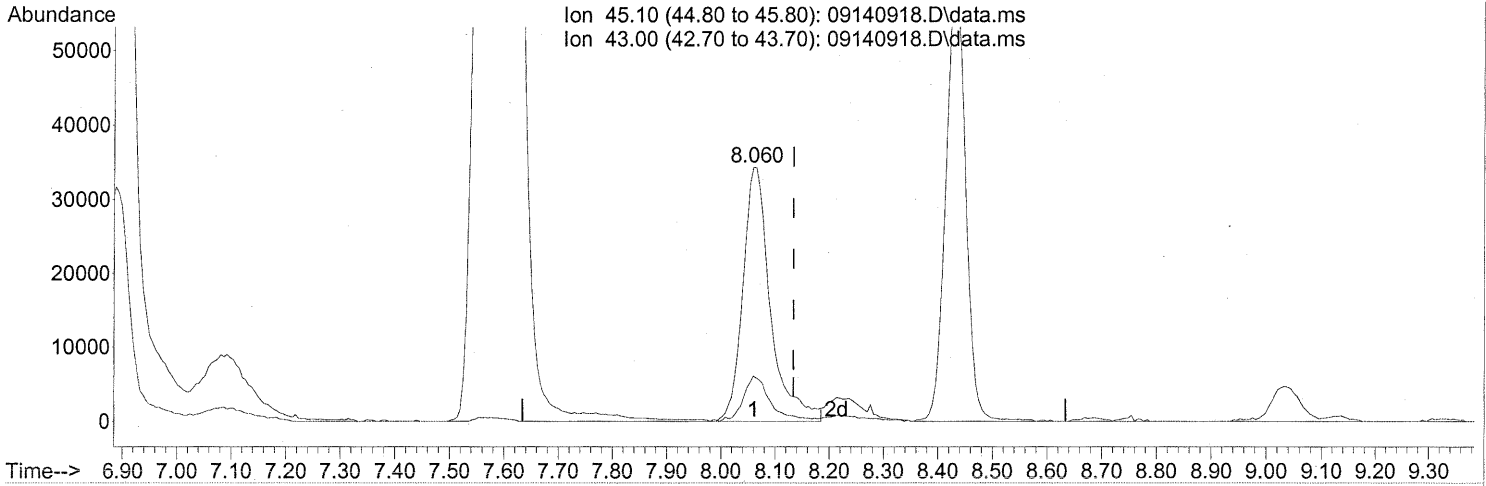
response 22279

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	62.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.30ng

response 120818

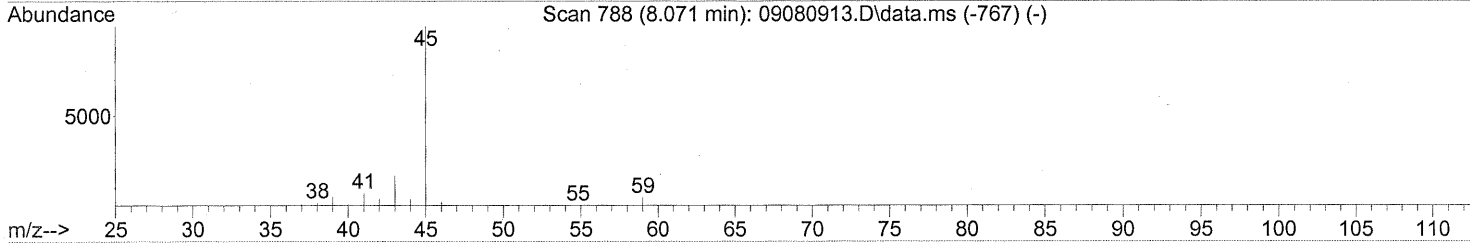
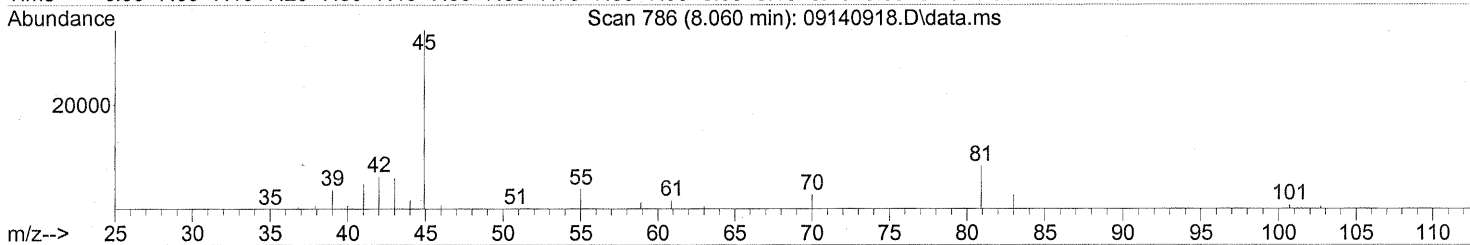
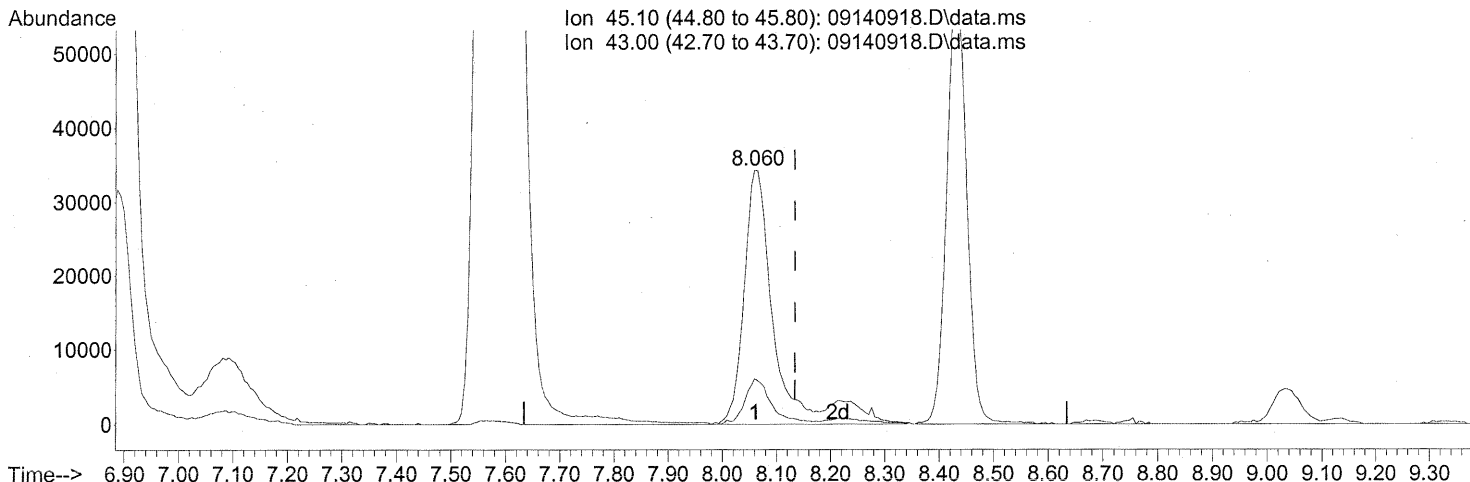
PT

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.83ng m

response 135857

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.47
0.00	0.00	0.00
0.00	0.00	0.00

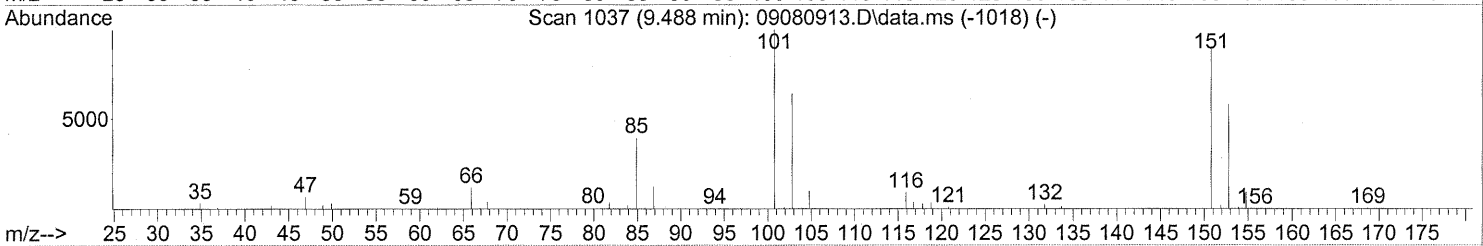
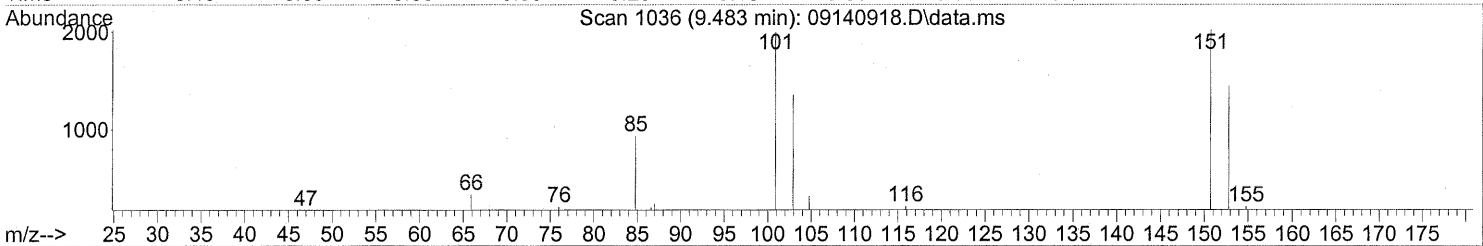
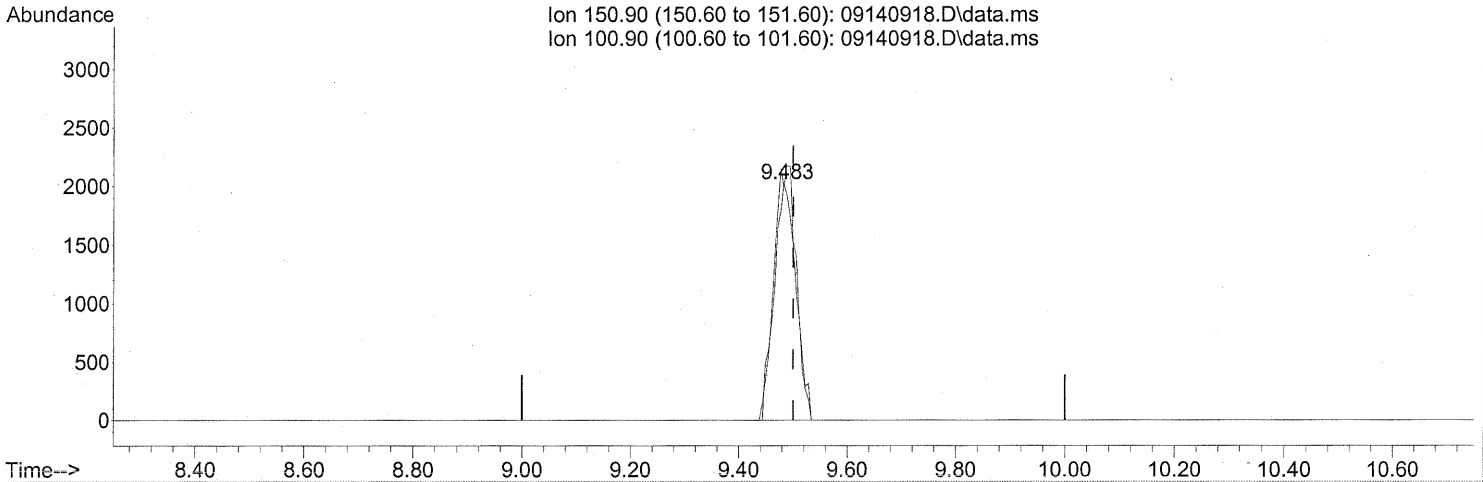
*PT → IC
 LH 9/18/09*

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.483min (-0.017) 0.59ng

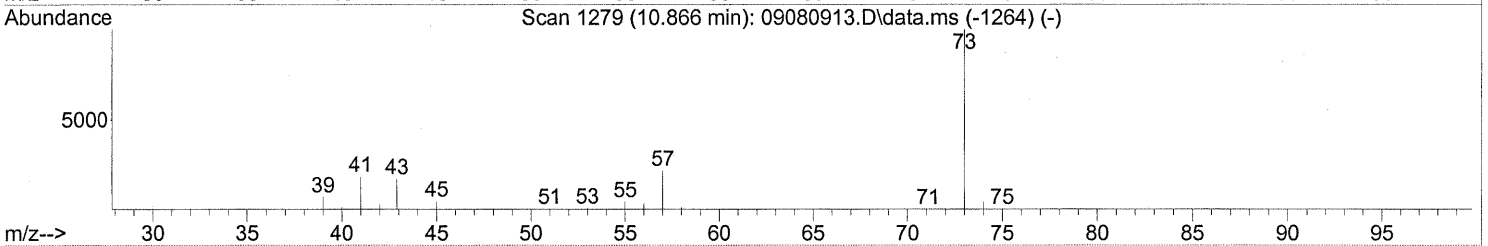
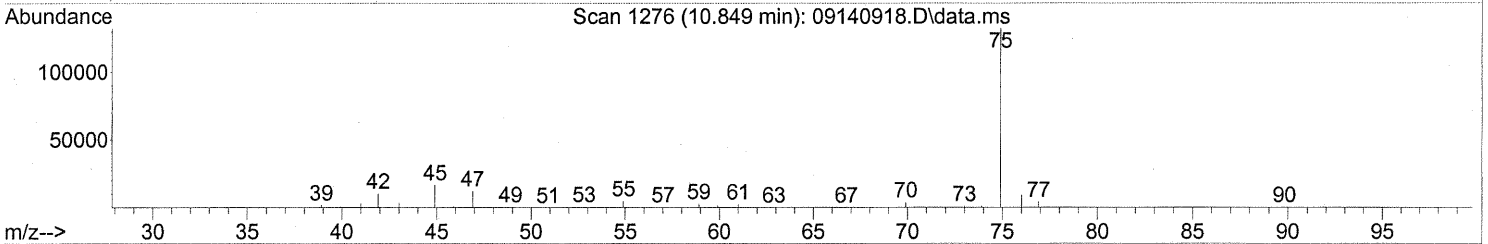
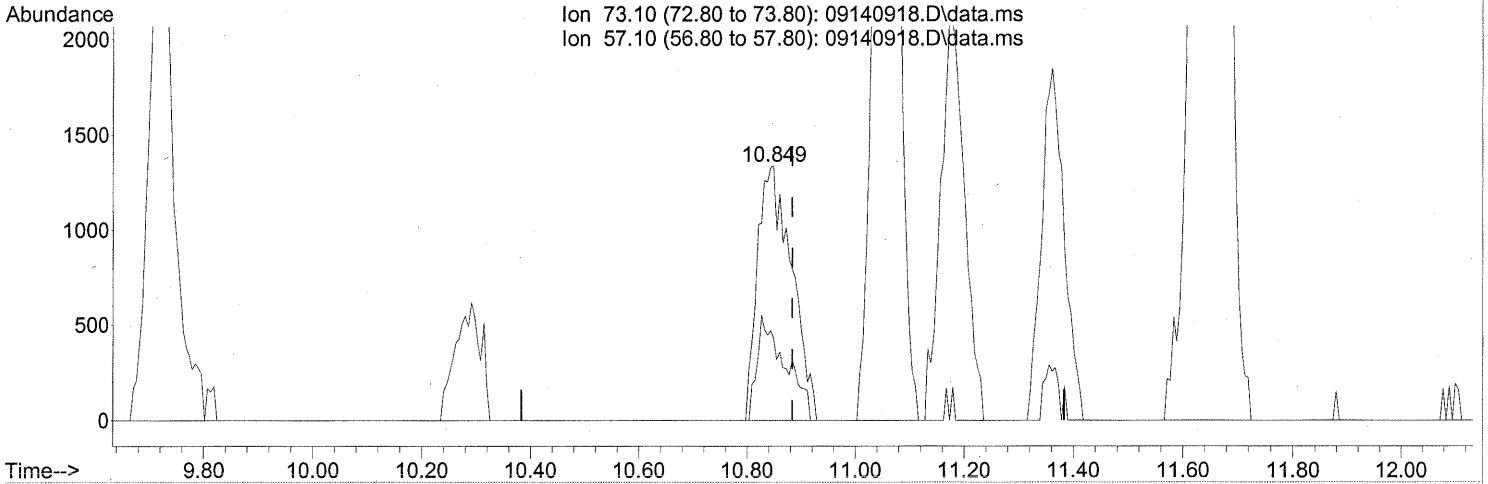
response 5728

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	109.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140918.D
Acq On : 14 Sep 2009 17:53
Operator : LH
Sample : P0903145-002 (1000mL)
Misc : Environmental H & E 102649
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 10:19:47 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.849min (-0.034) 0.19ng

response 5853

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

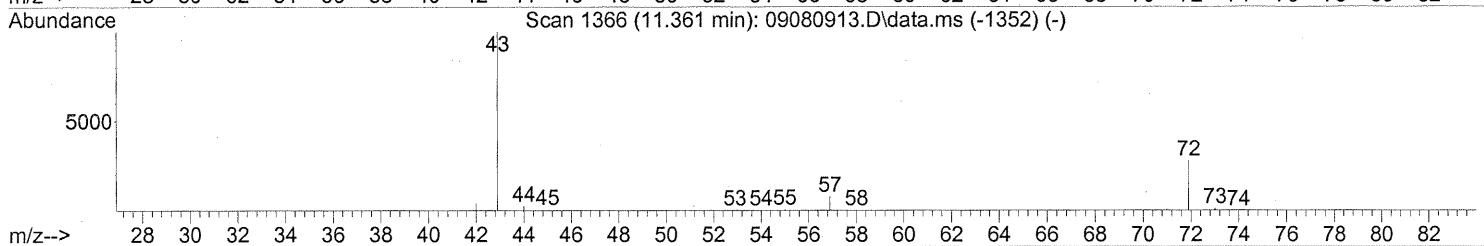
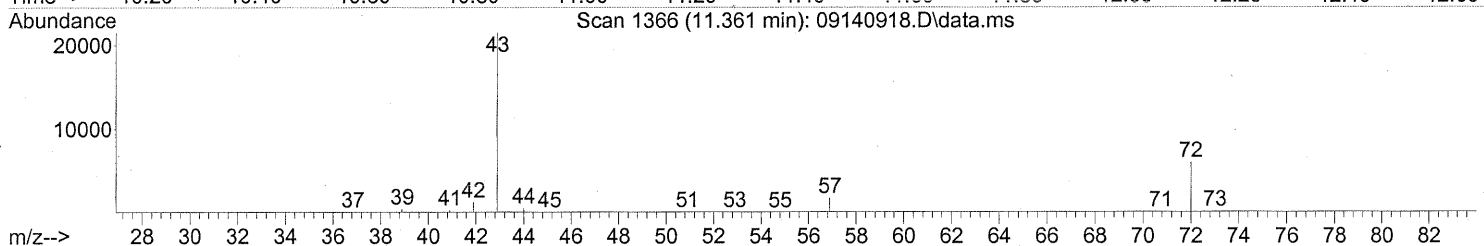
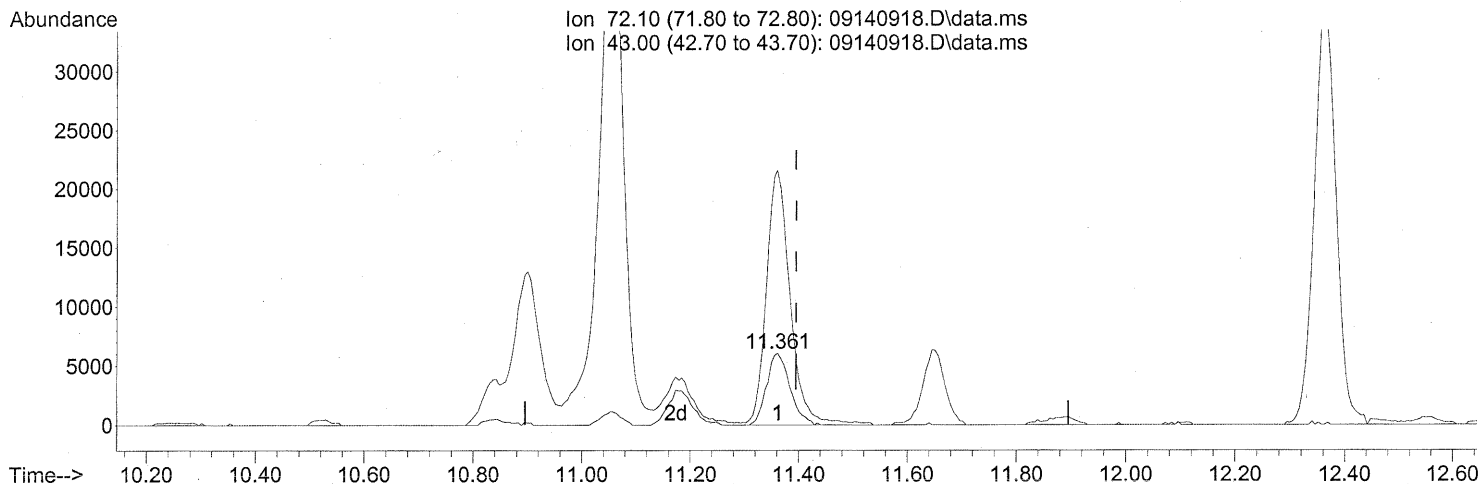
FP in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(27) 2-Butanone (MEK) (T)

11.361min (-0.034) 2.30ng

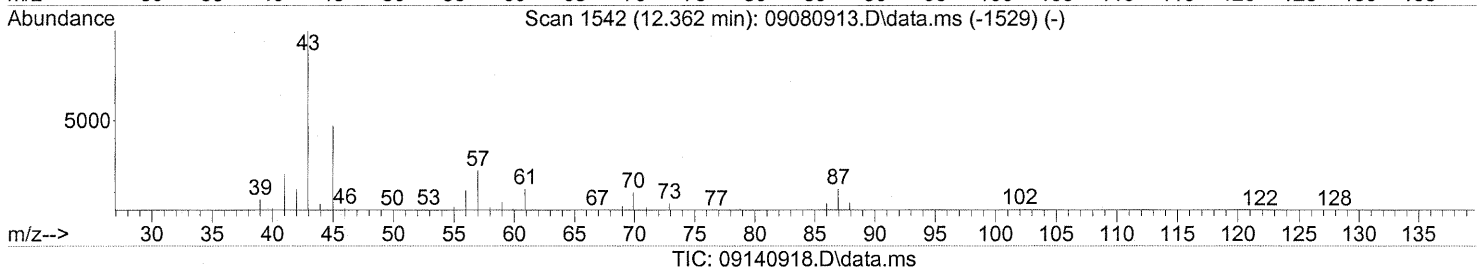
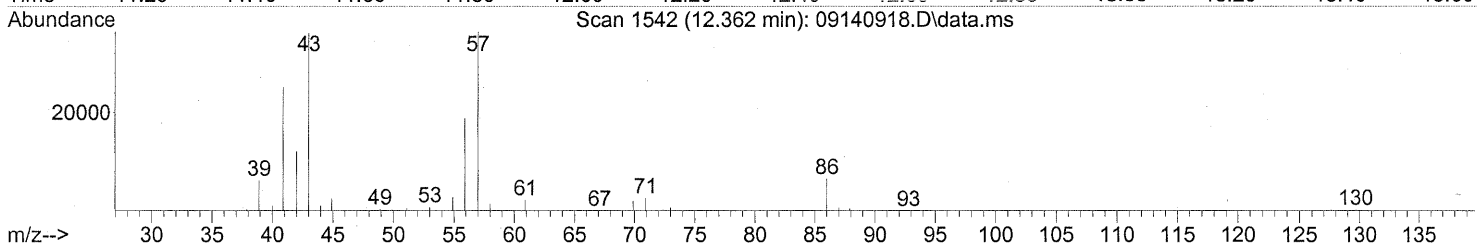
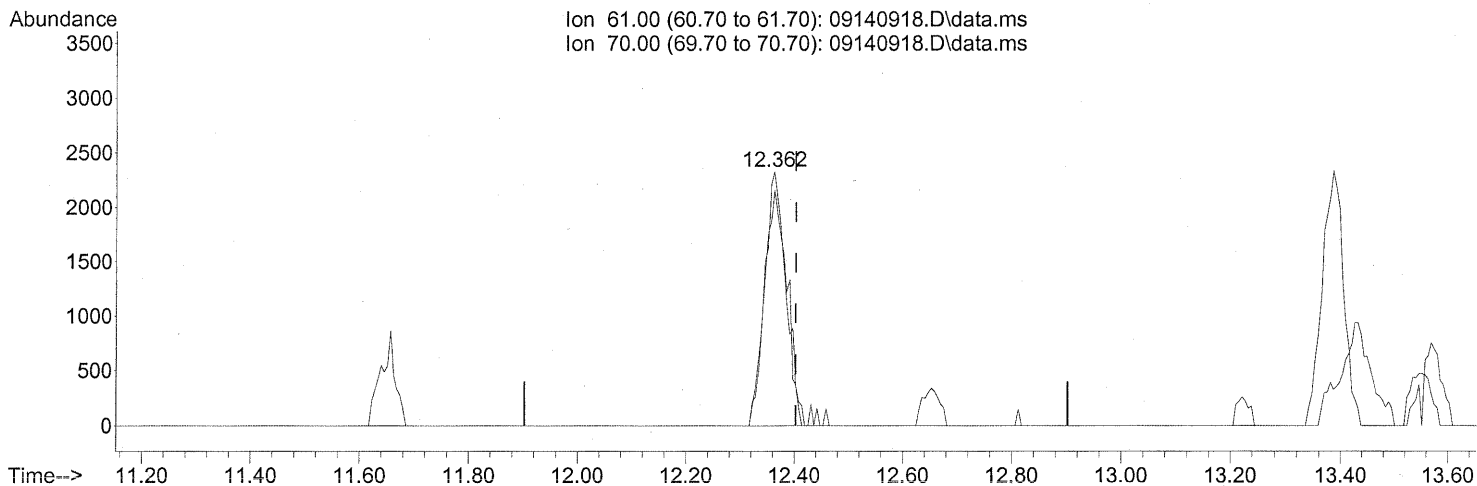
response 18064

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	363.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.362min (-0.040) 1.60ng

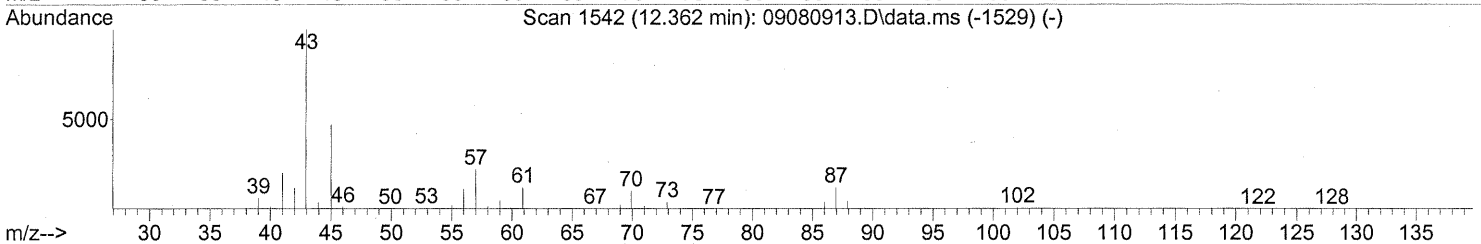
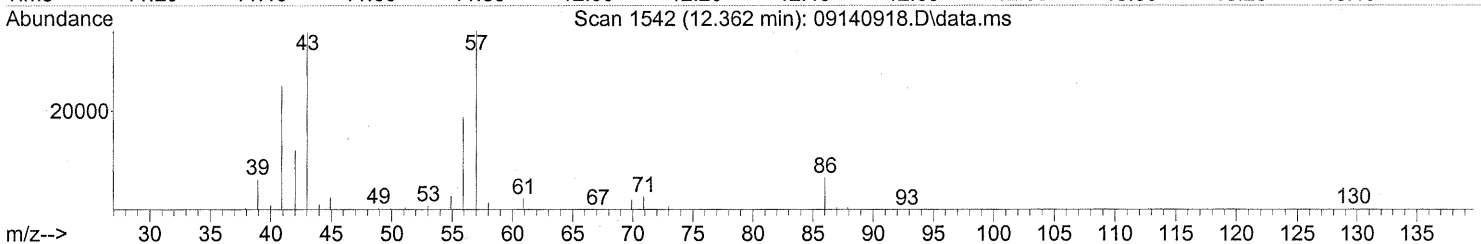
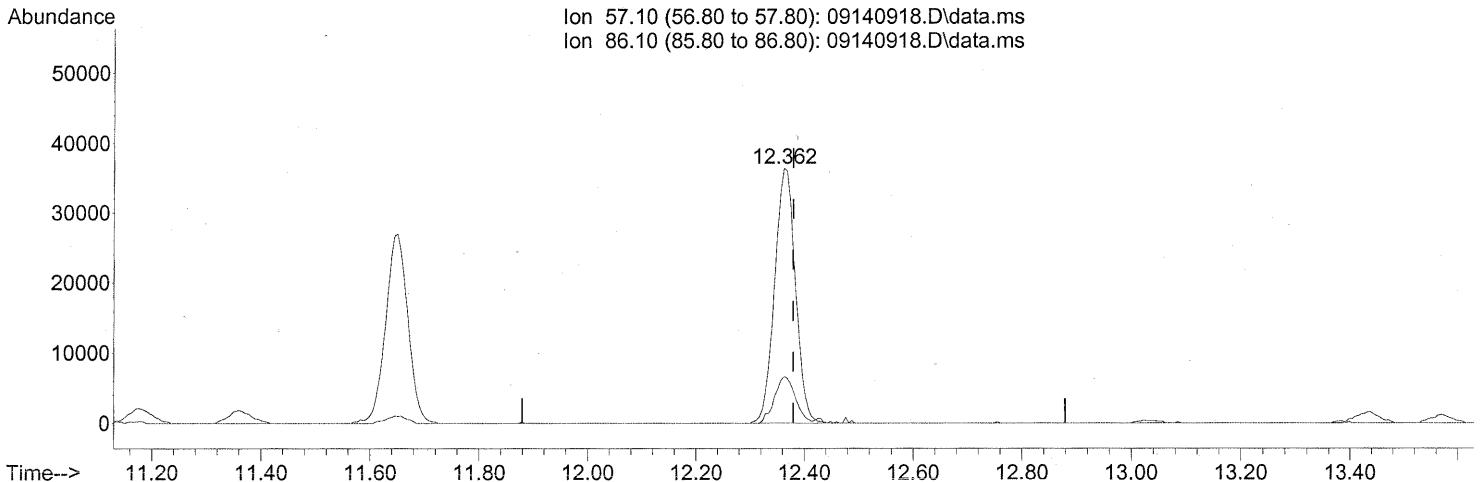
response 6359

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	97.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(31) n-Hexane (T)

12.362min (-0.017) 6.16ng

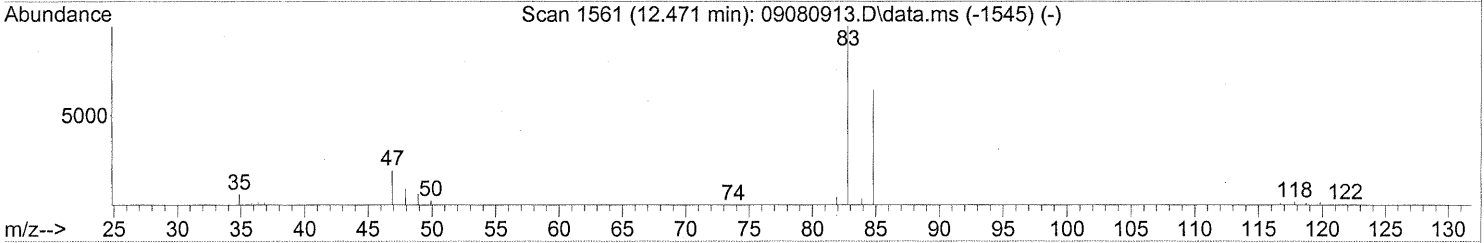
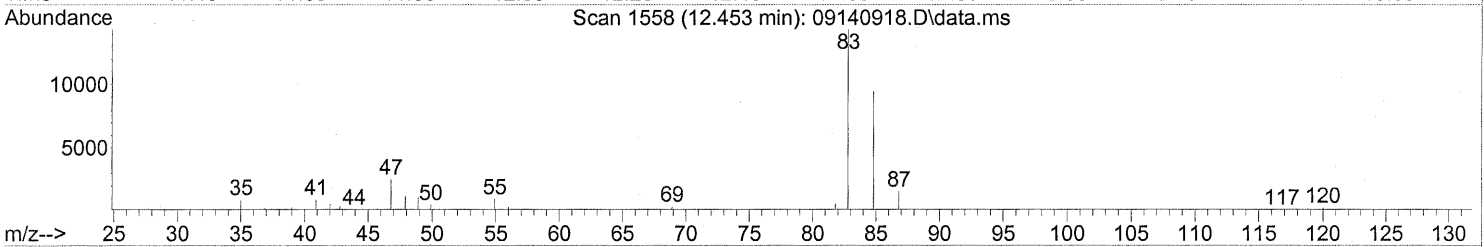
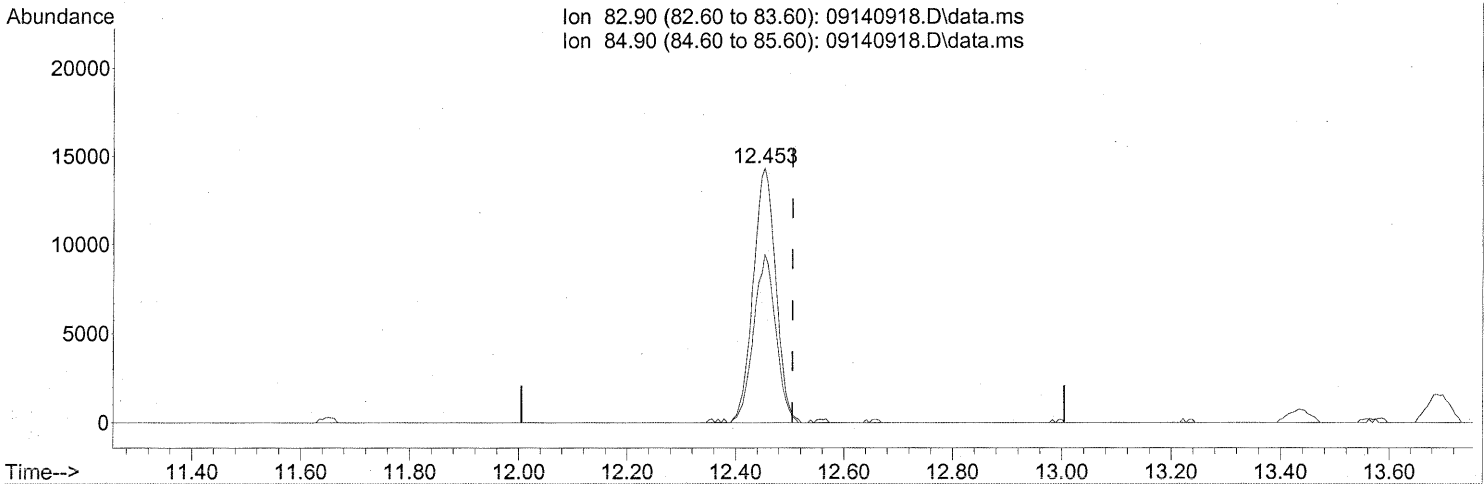
response 97196

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	18.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(32) Chloroform (T)

12.453min (-0.051) 2.15ng

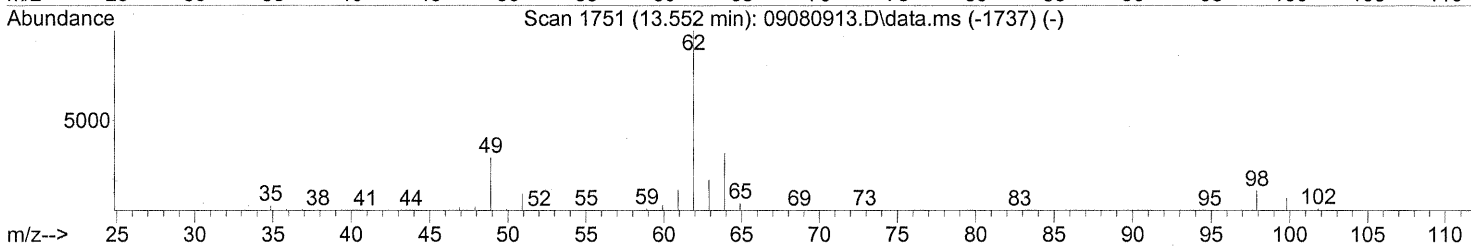
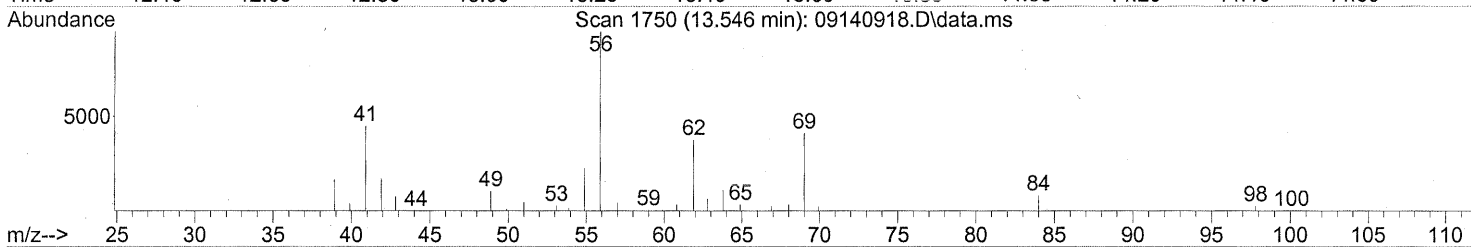
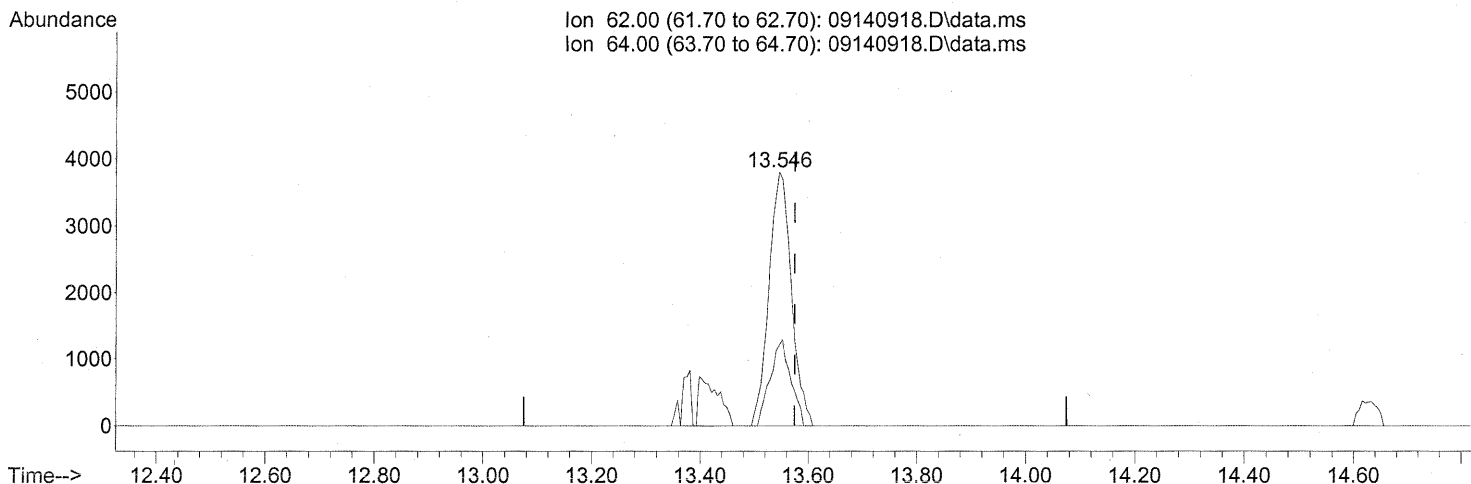
response 41680

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140918.D
Acq On : 14 Sep 2009 17:53
Operator : LH
Sample : P0903145-002 (1000mL)
Misc : Environmental H & E 102649
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09140918.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.028) 0.82ng

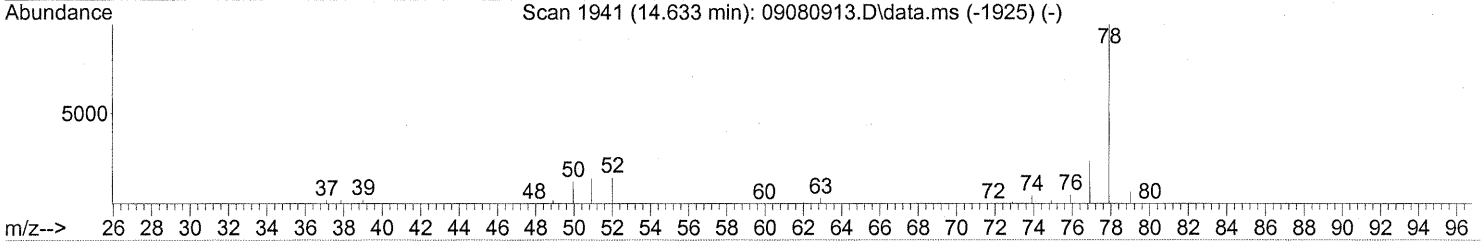
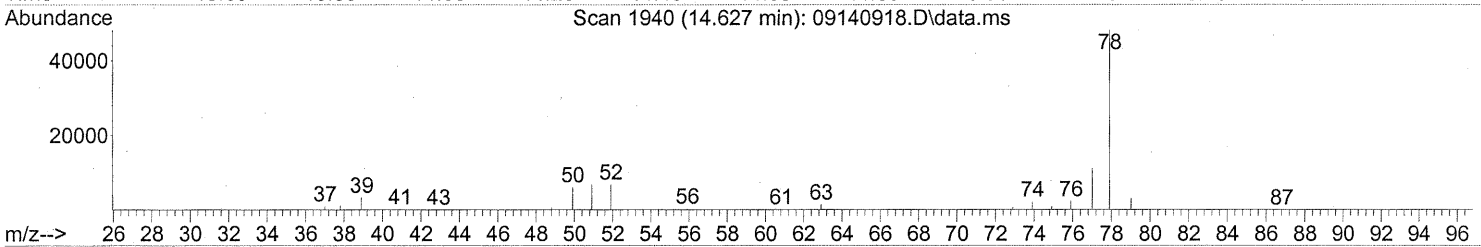
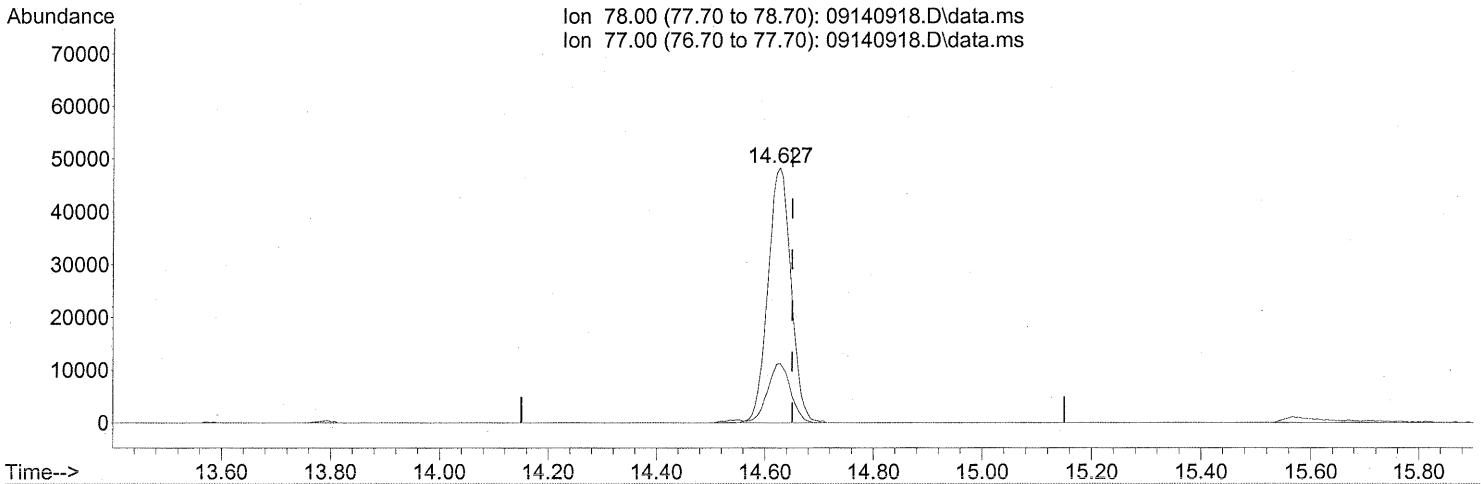
response 10979

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	31.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(41) Benzene (T)

14.627min (-0.023) 3.02ng

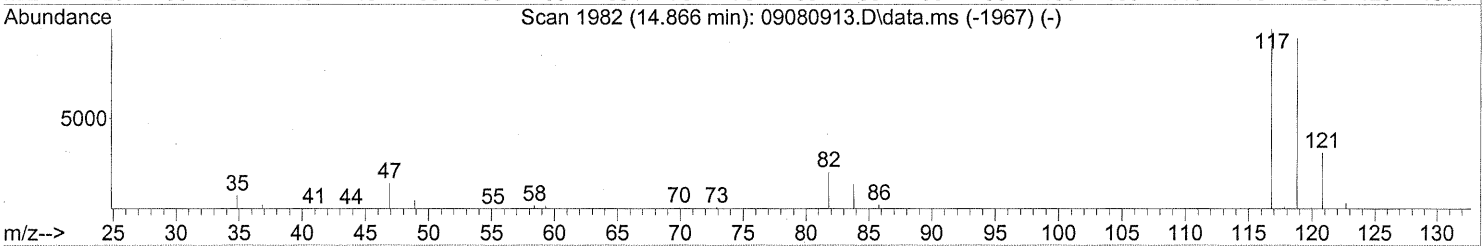
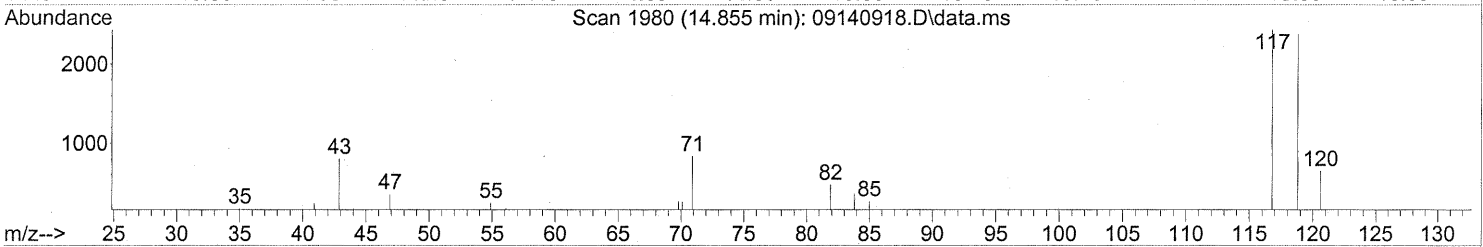
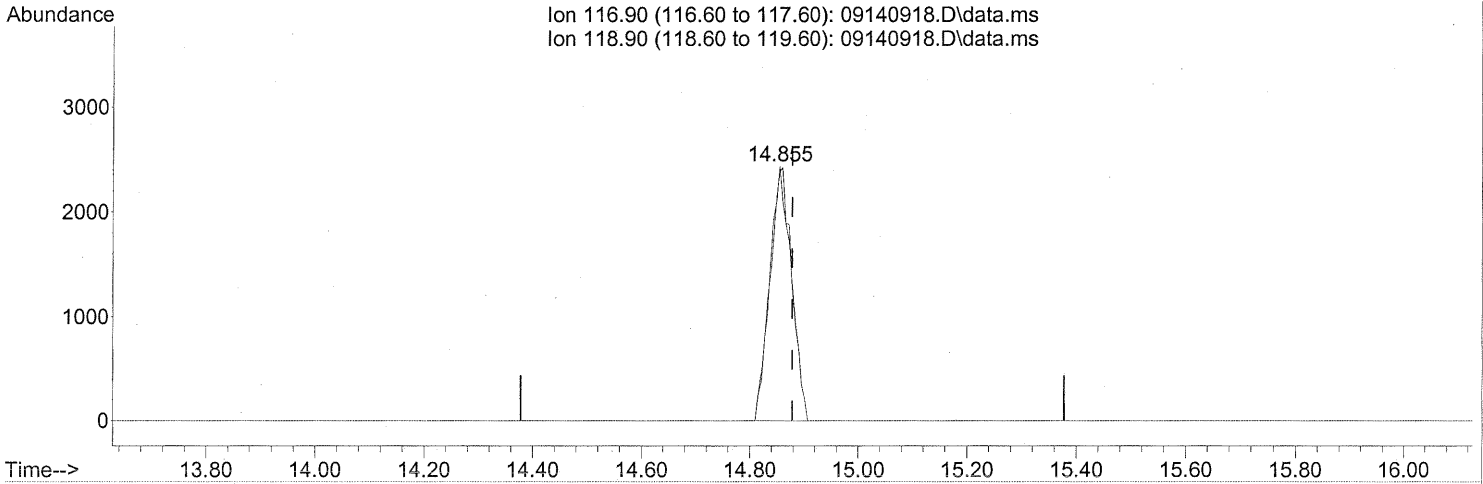
response 142653

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.47ng

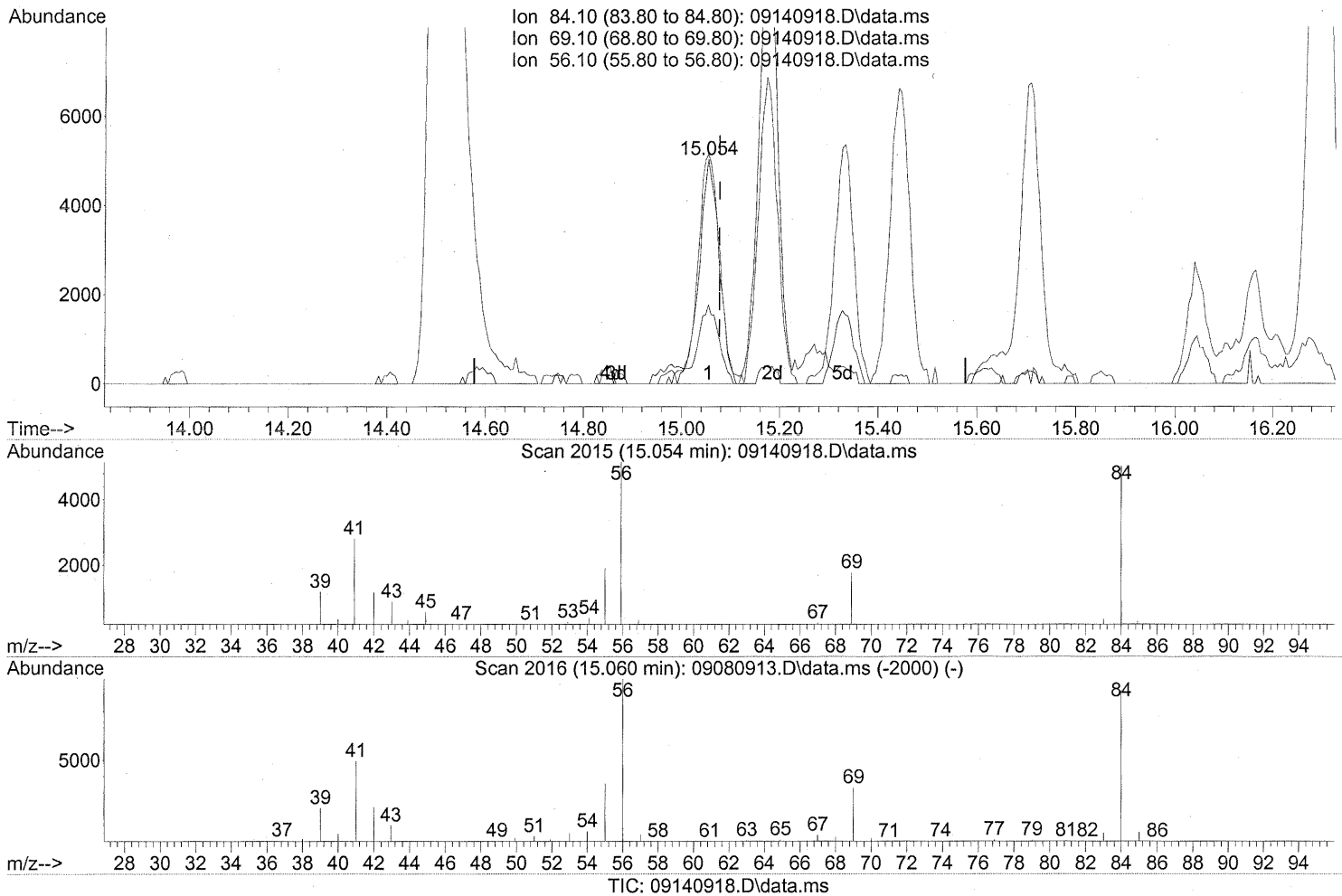
response 6737

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	101.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.054min (-0.023) 0.84ng

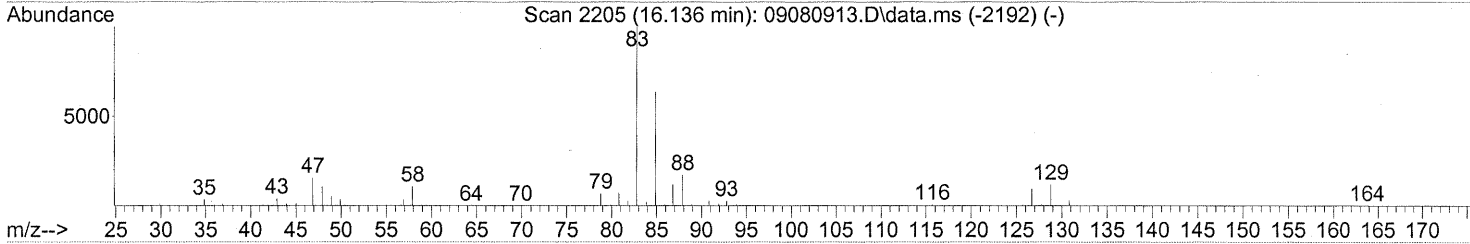
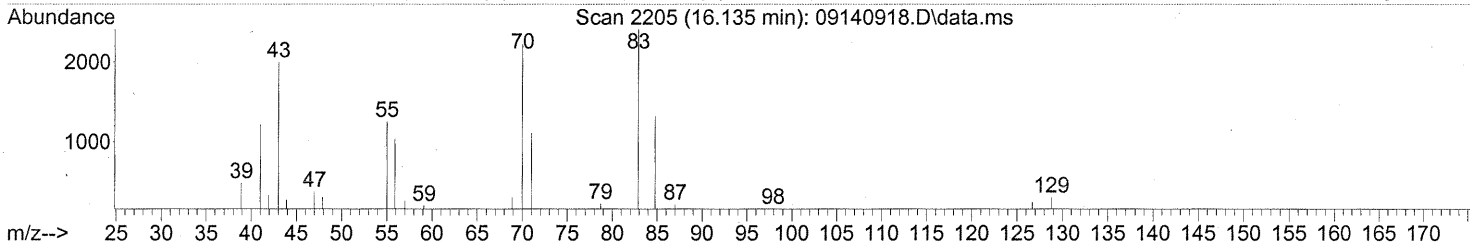
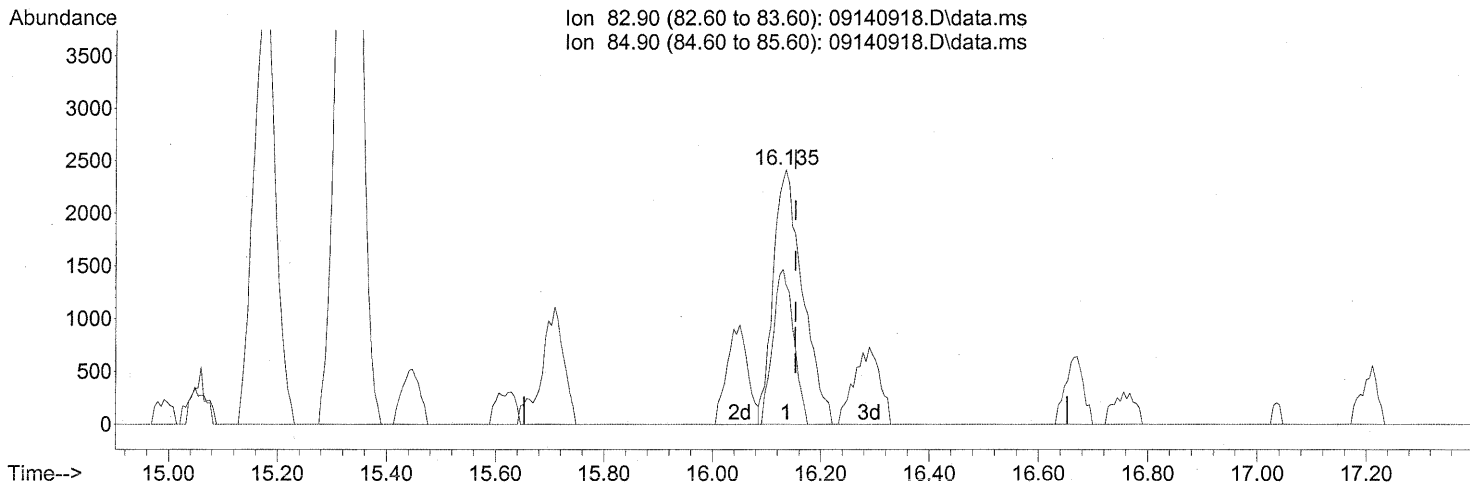
response 14498

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	34.42
56.10	124.60	109.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(46) Bromodichloromethane (T)

16.135min (-0.017) 0.63ng

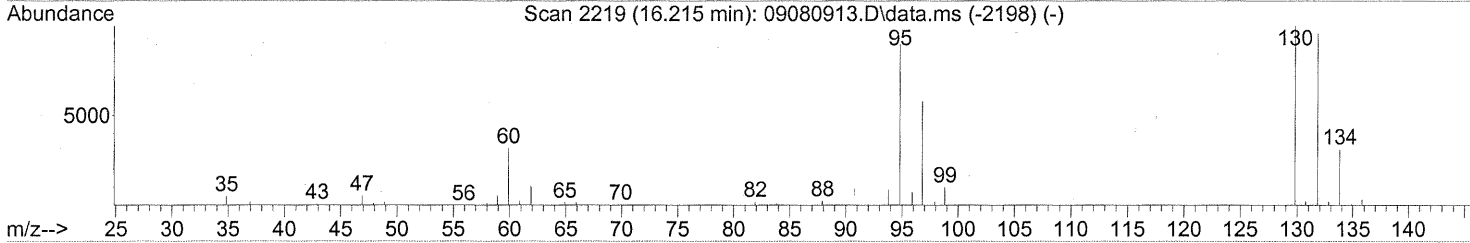
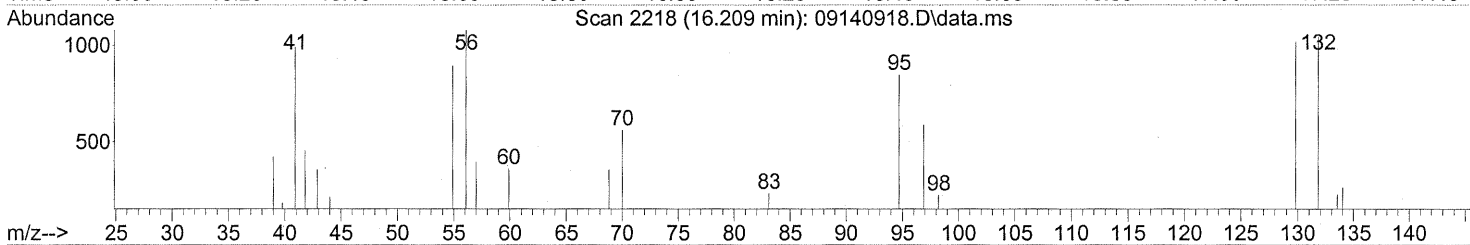
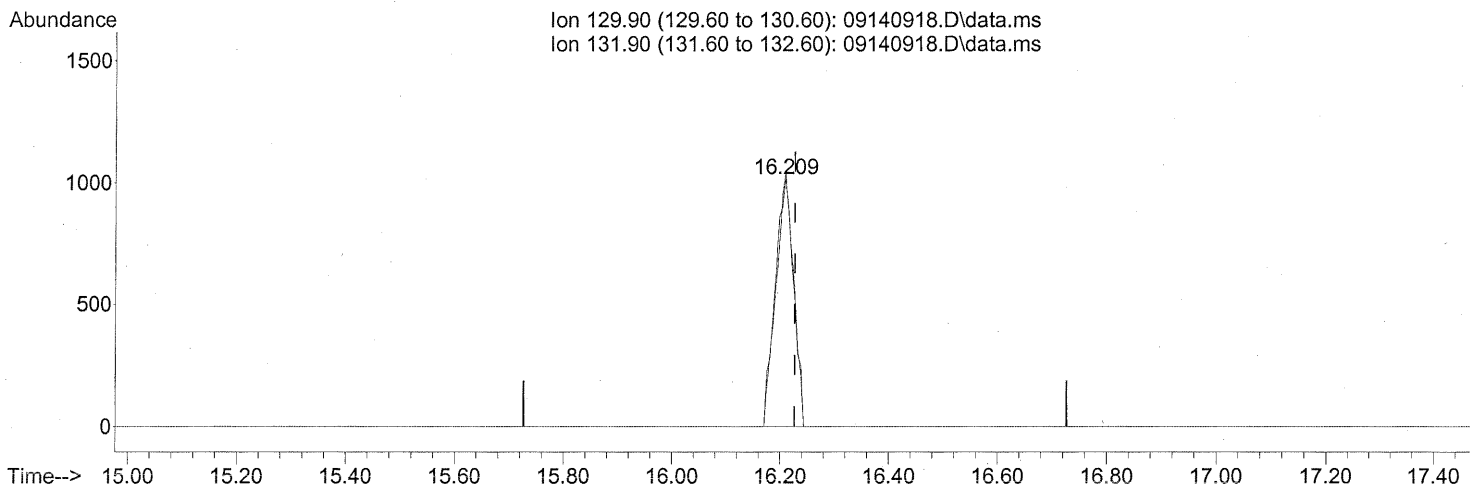
response 9148

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	42.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(47) Trichloroethene (T)

16.209min (-0.017) 0.17ng

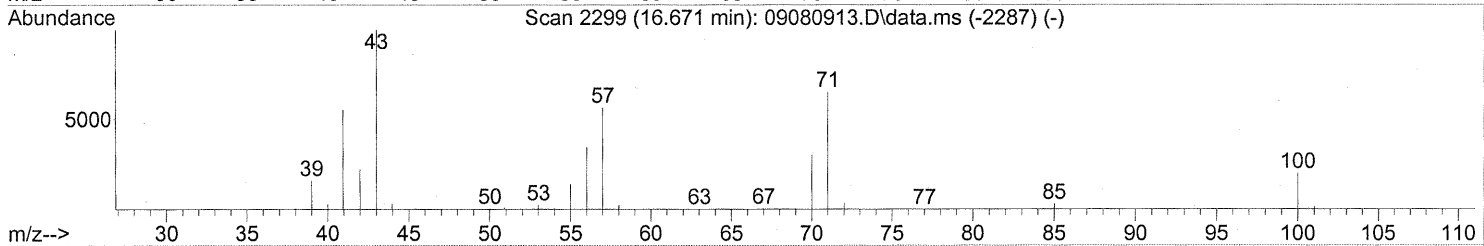
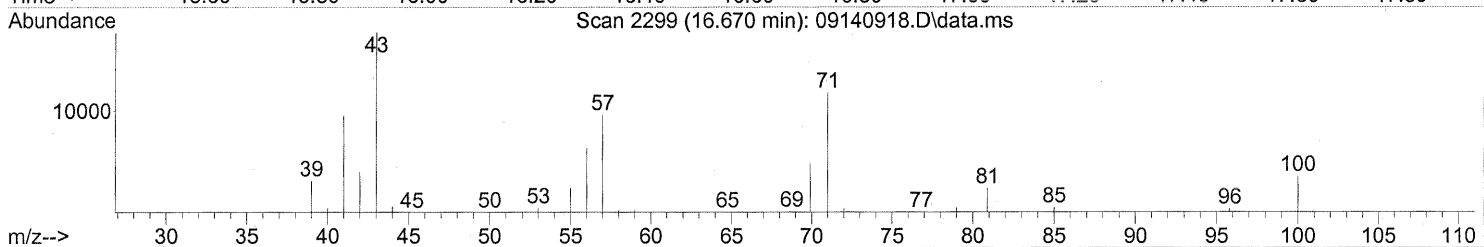
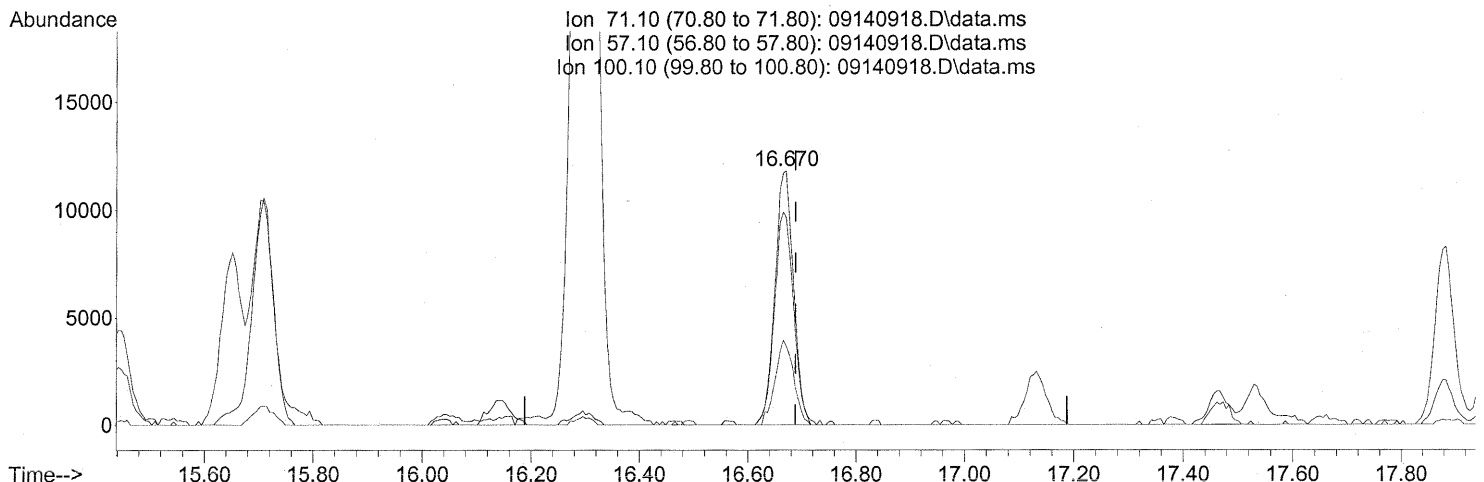
response 2399

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	97.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

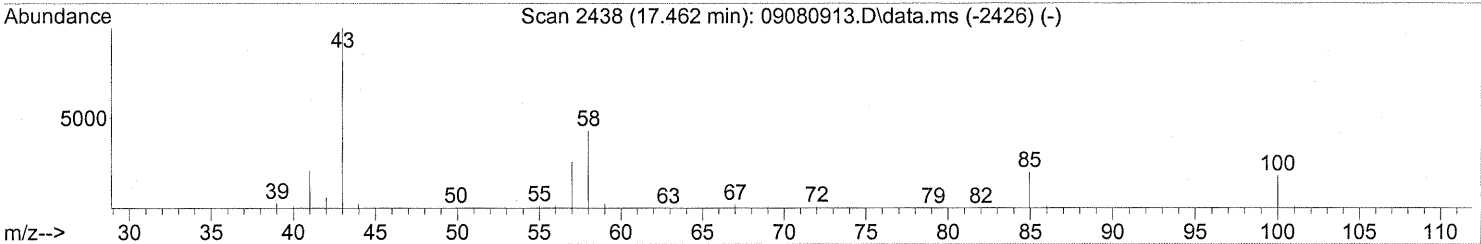
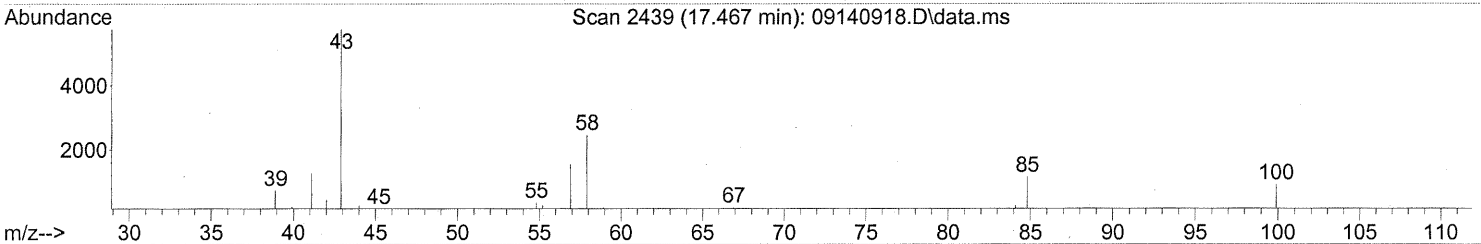
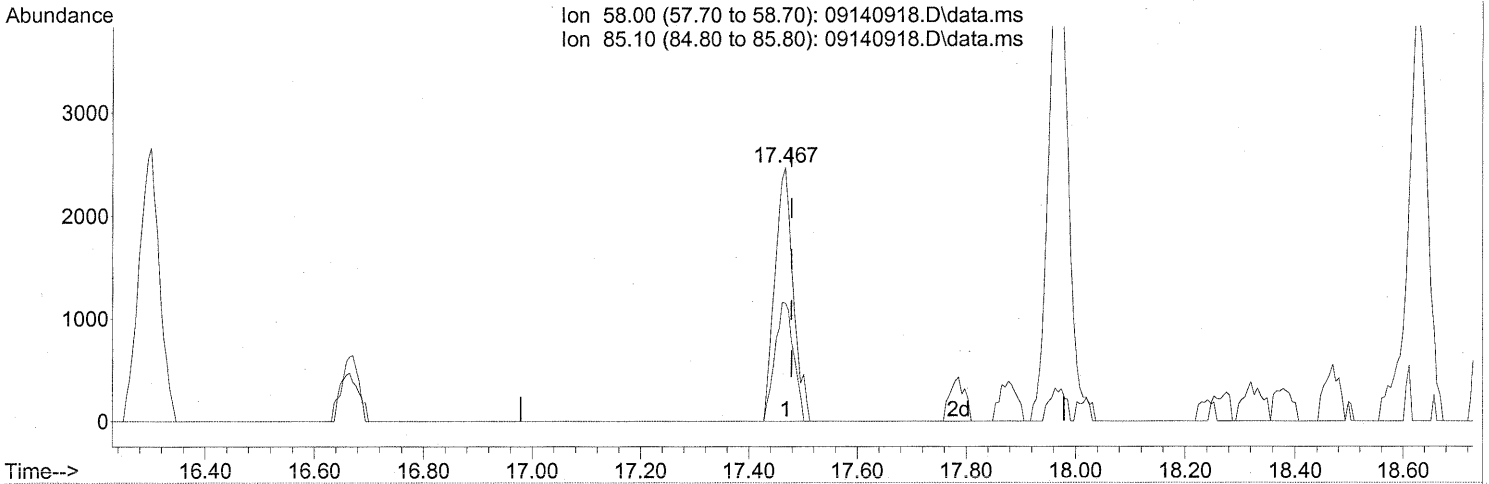
(51) n-Heptane (T)
 16.670min (-0.017) 2.34ng
 response 28220

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	86.27
100.10	26.80	33.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.467min (-0.011) 0.55ng

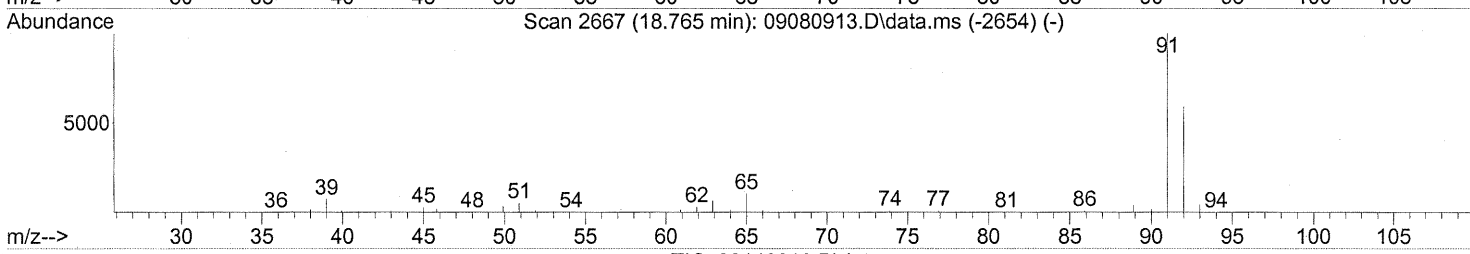
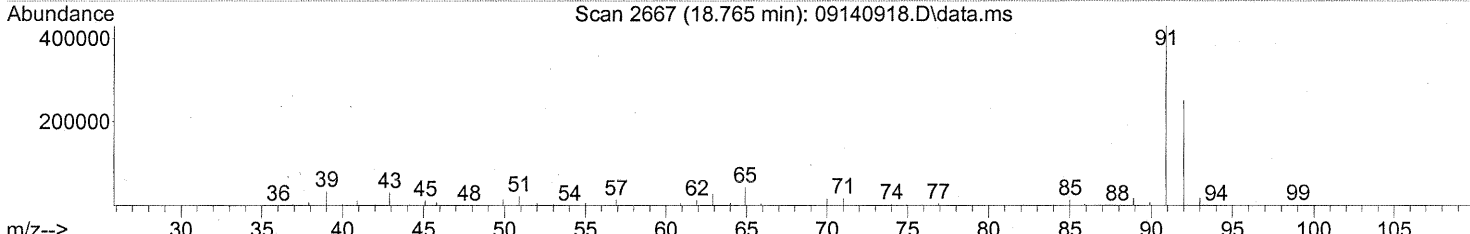
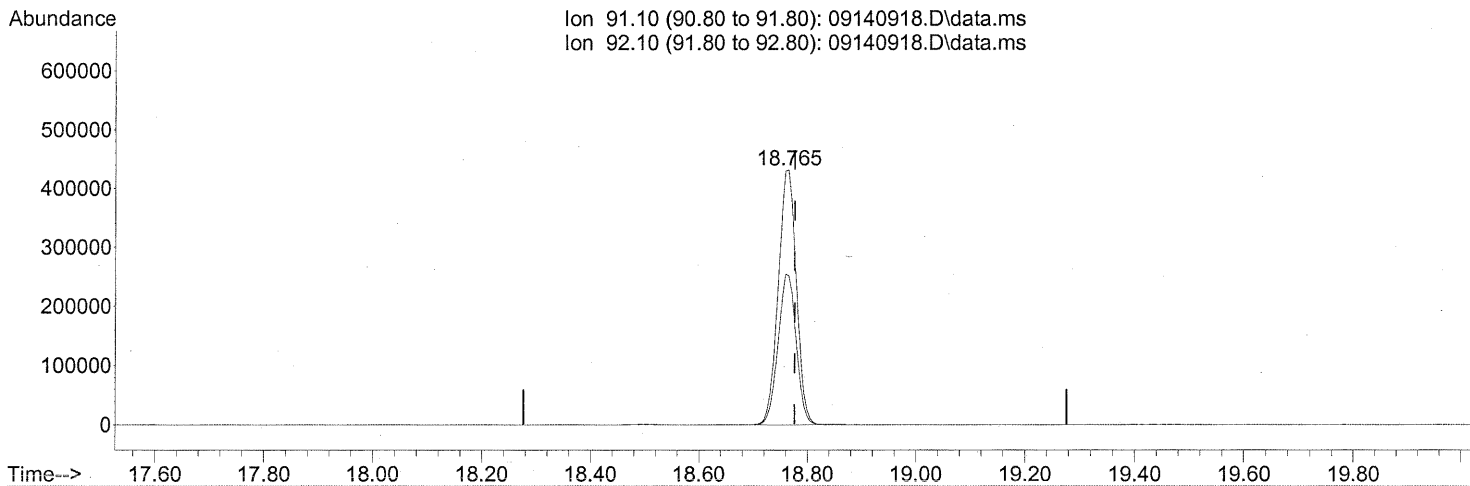
response 5840

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140918.D
Acq On : 14 Sep 2009 17:53
Operator : LH
Sample : P0903145-002 (1000mL)
Misc : Environmental H & E 102649
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09140918.D\data.ms

(58) Toluene (T)

18.765min (-0.011) 19.31ng

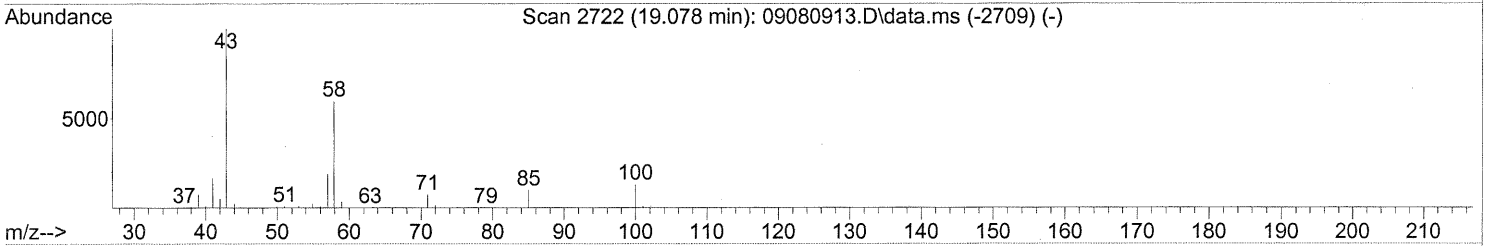
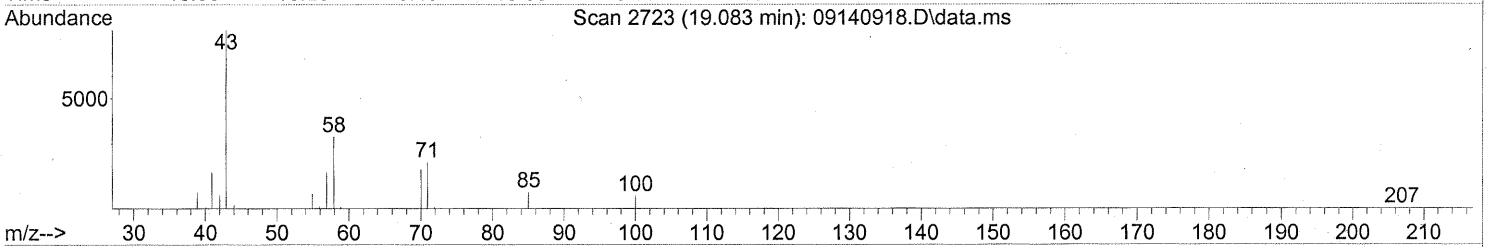
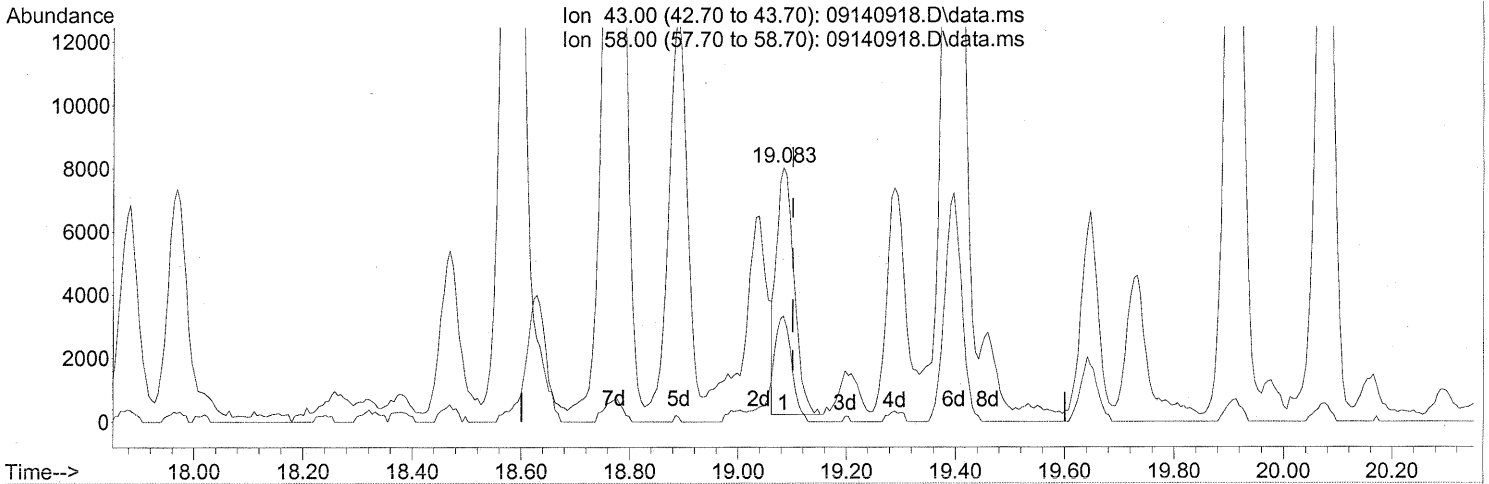
response 1006236

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(59) 2-Hexanone (T)

19.083min (-0.017) 0.70ng

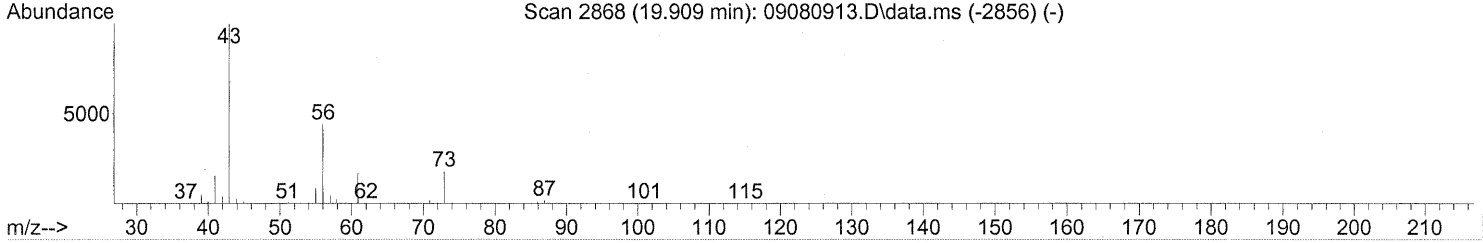
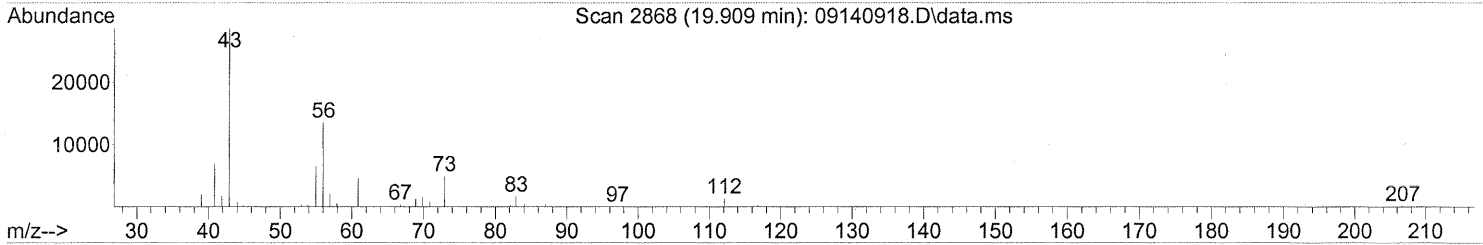
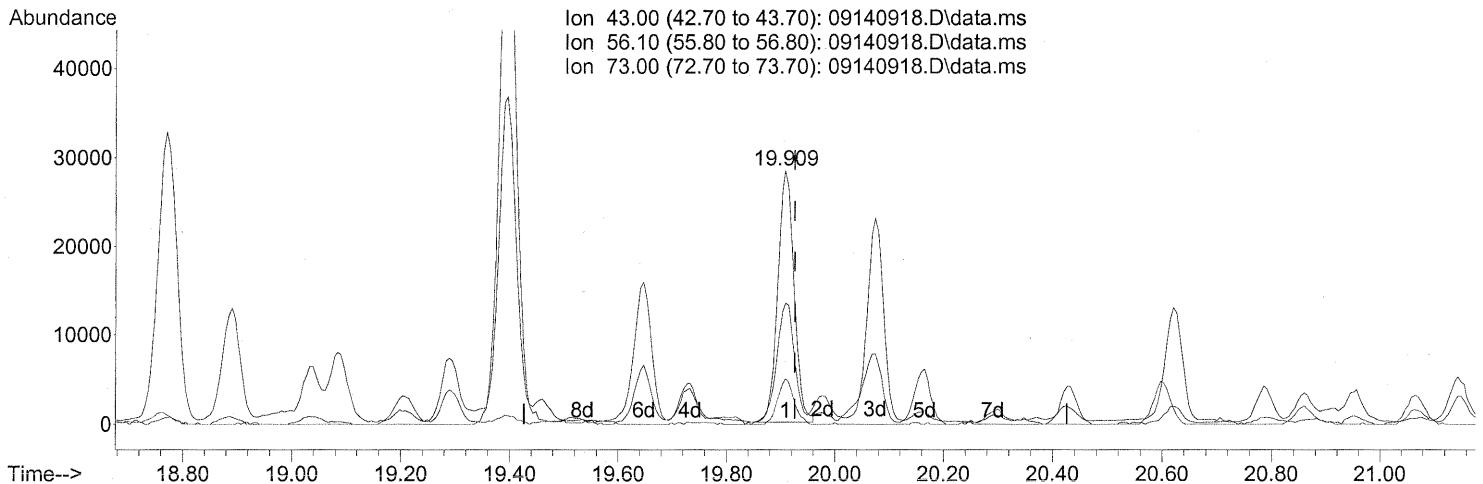
response 17690

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	46.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



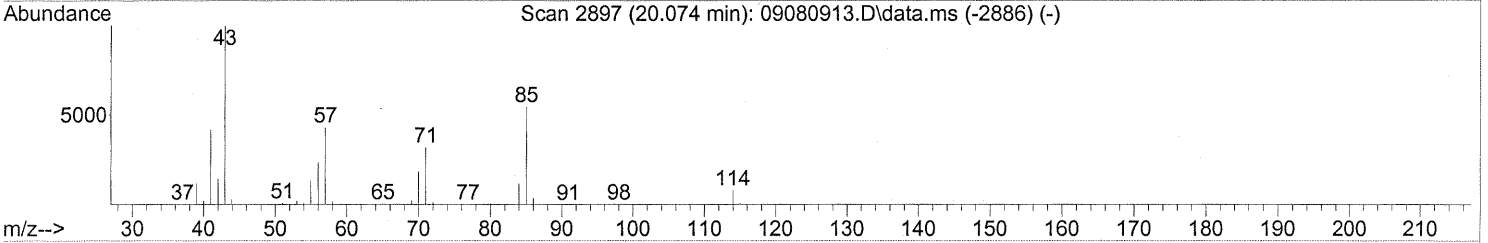
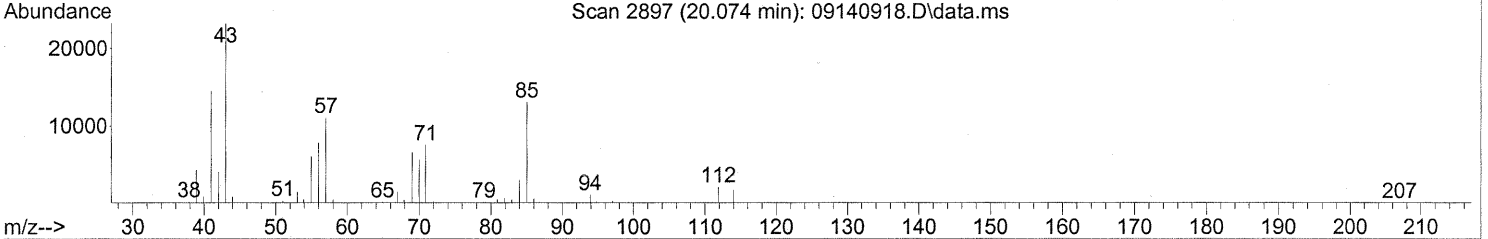
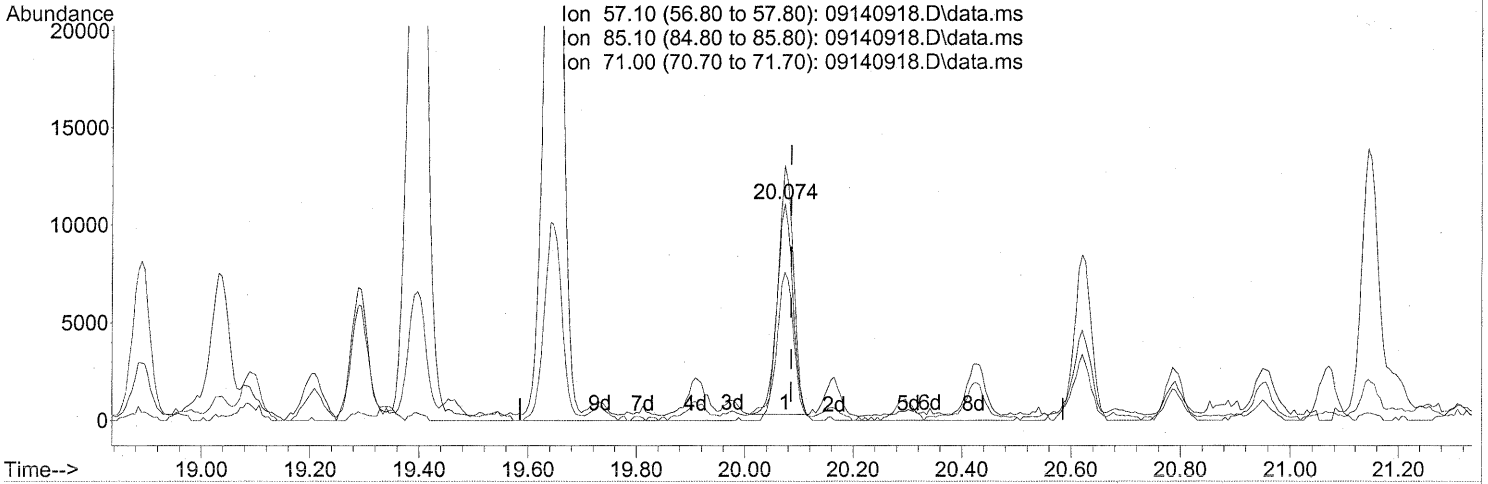
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 2.06ng
 response 59182

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	53.90
73.00	15.40	17.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



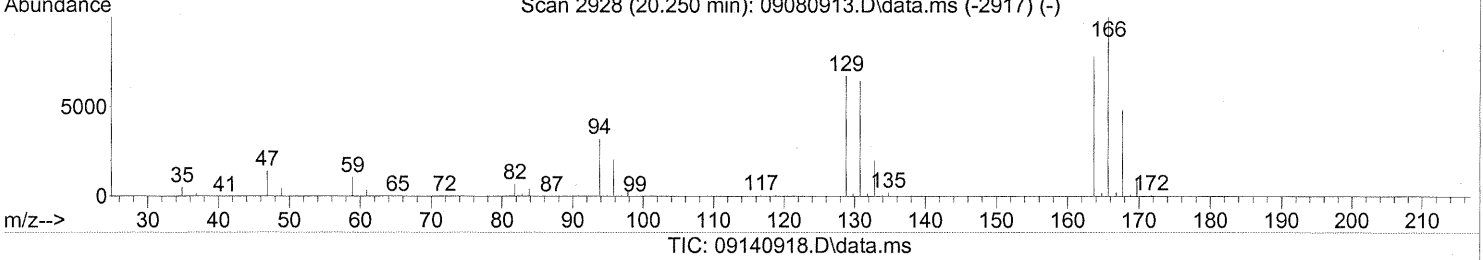
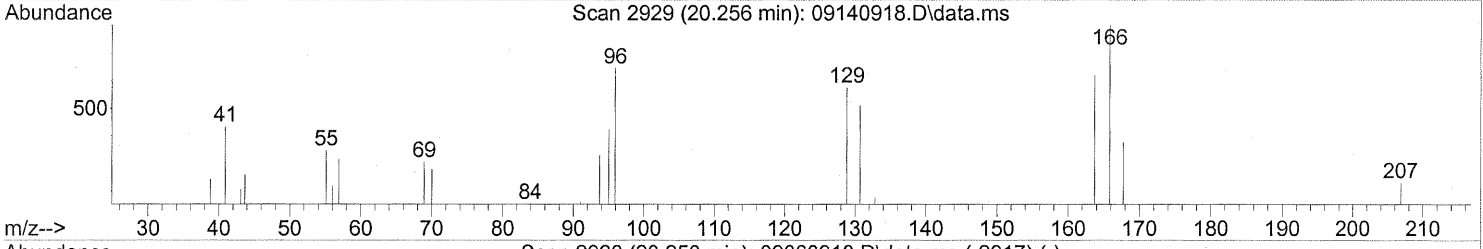
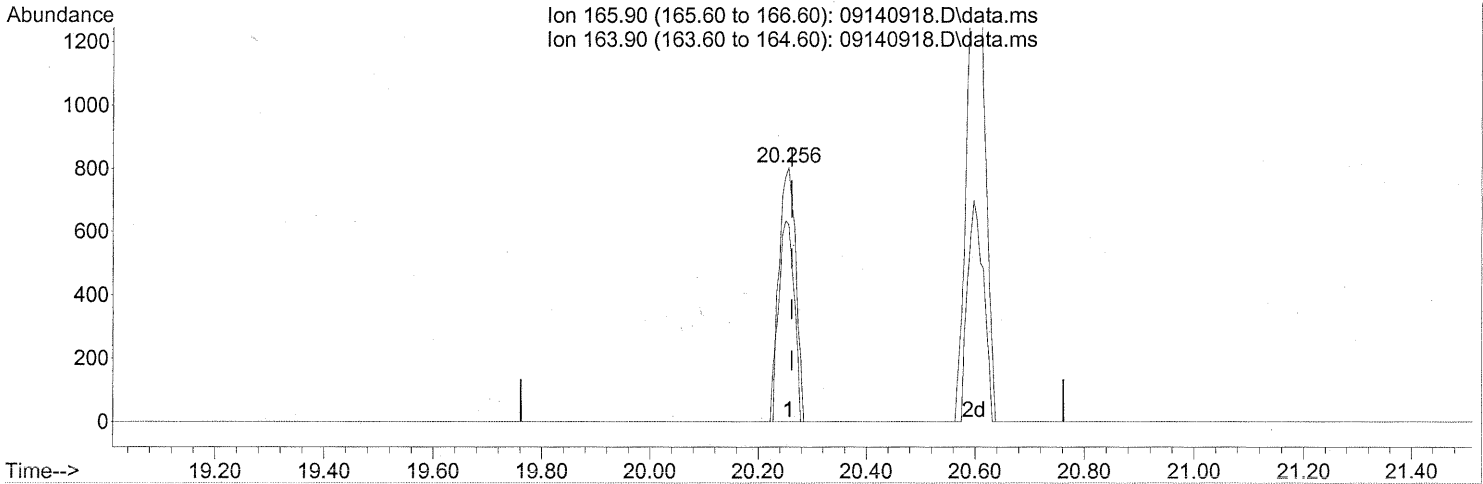
(63) n-Octane (T)
 20.074min (-0.011) 2.23ng
 response 21858

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	120.94
71.00	69.40	73.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.256min (-0.006) 0.11ng

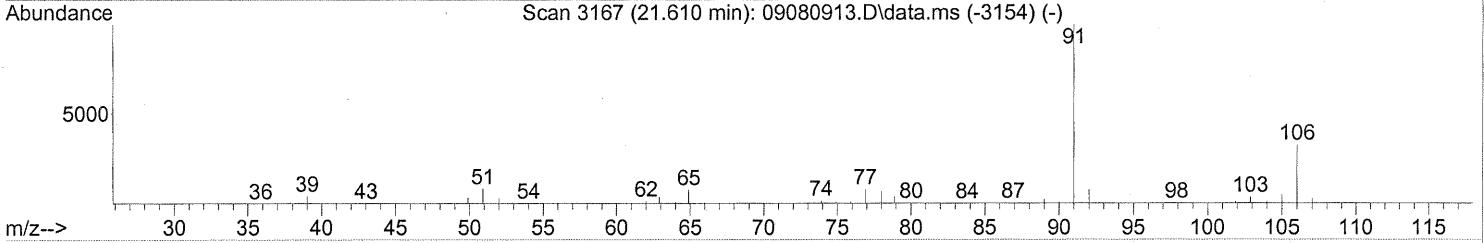
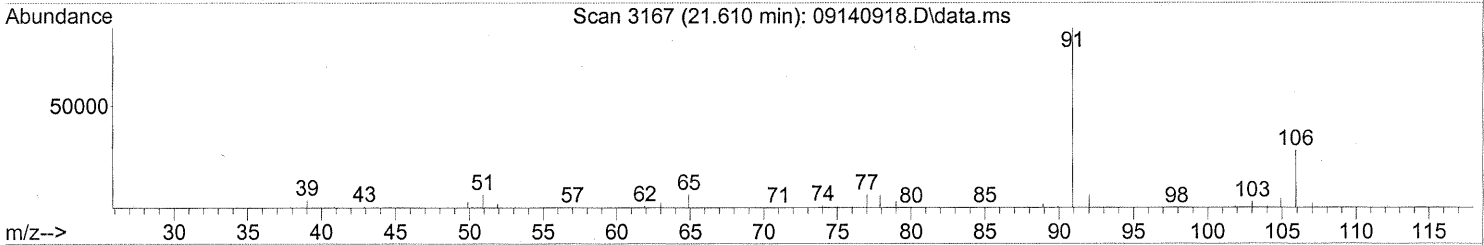
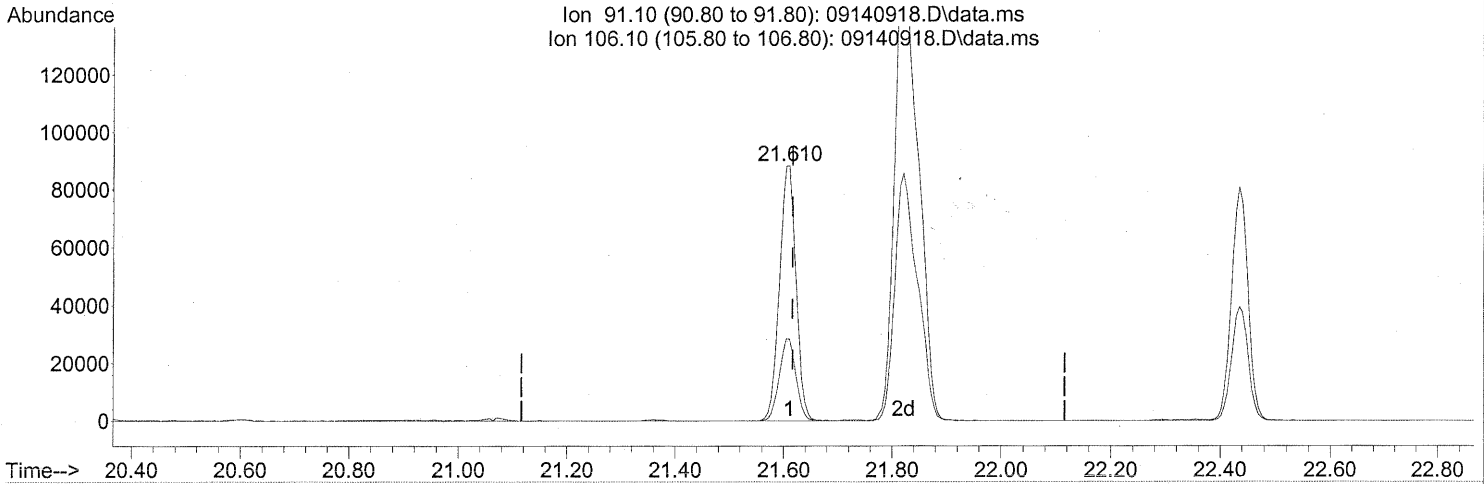
response 1710

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	75.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

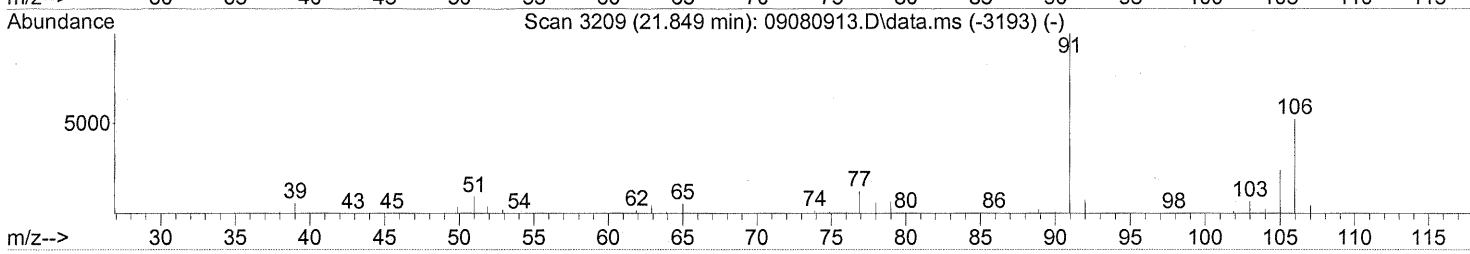
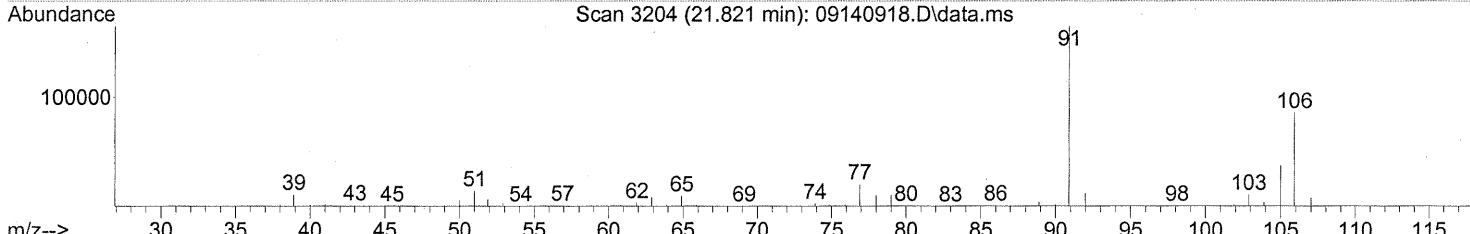
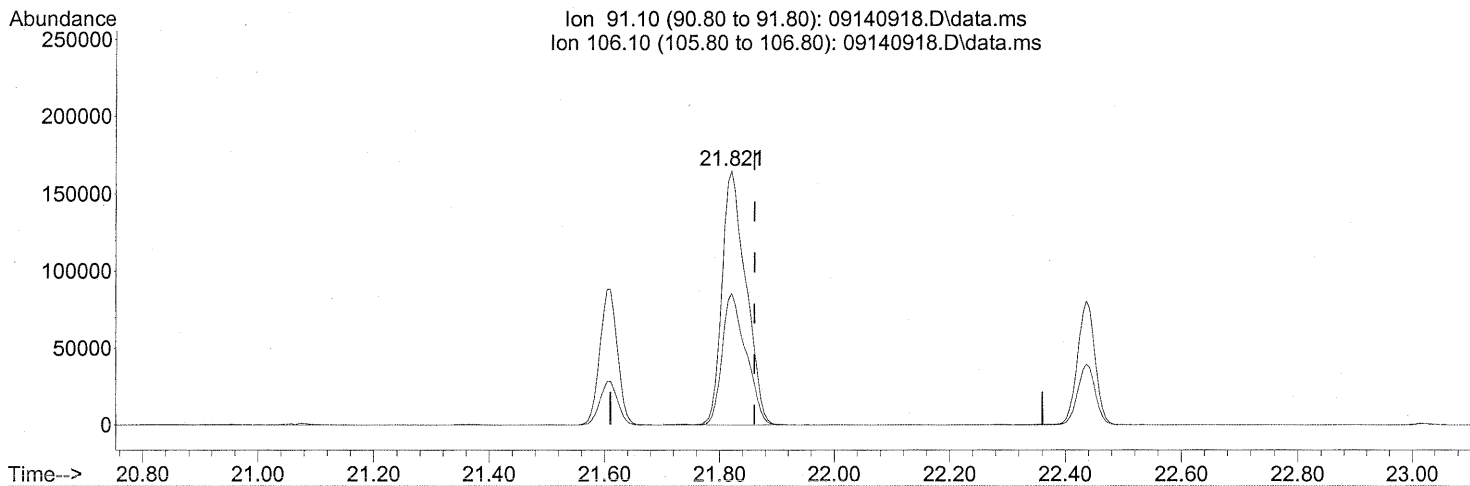
(66) Ethylbenzene (T)
 21.610min (-0.006) 3.26ng
 response 186646

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

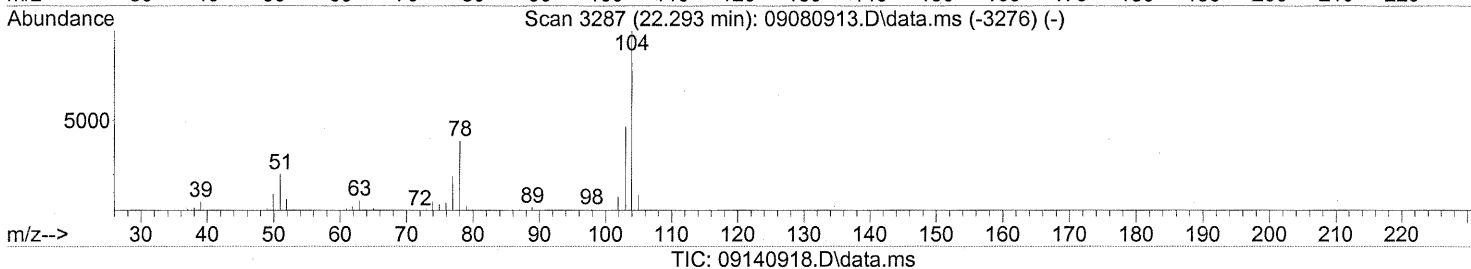
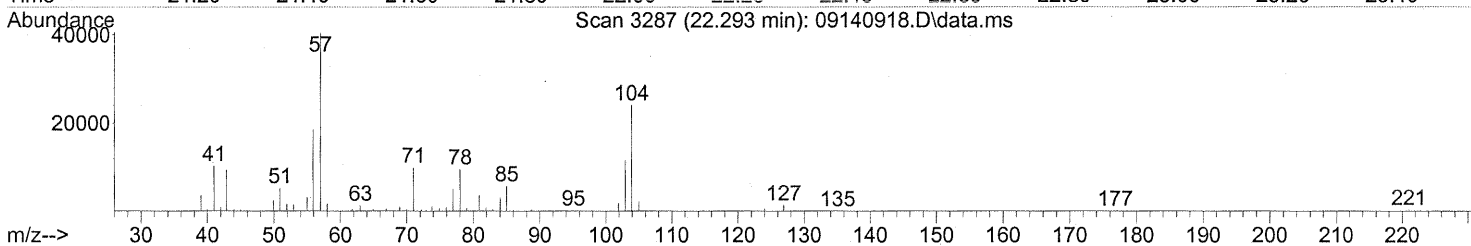
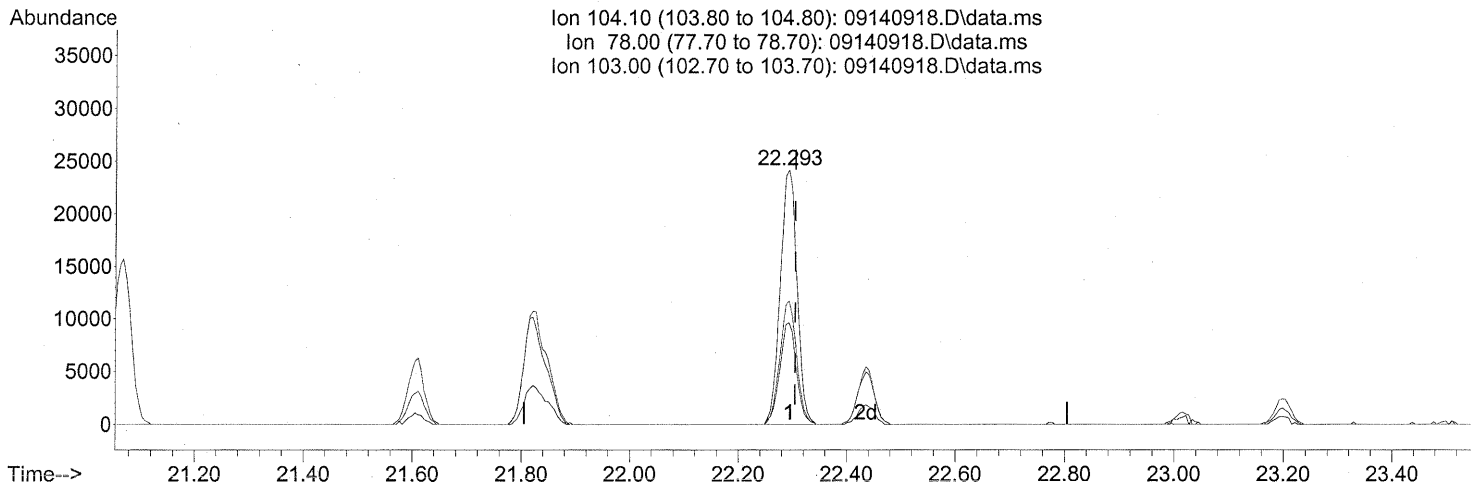
21.821min (-0.040) 10.69ng
 response 478058

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
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 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



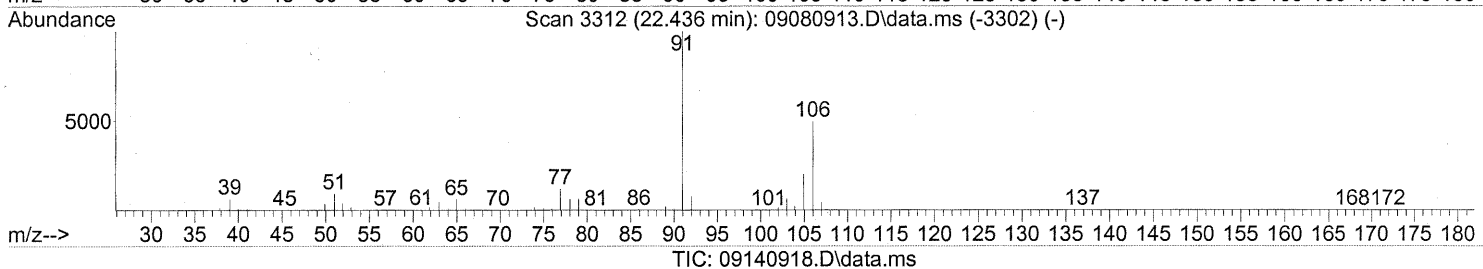
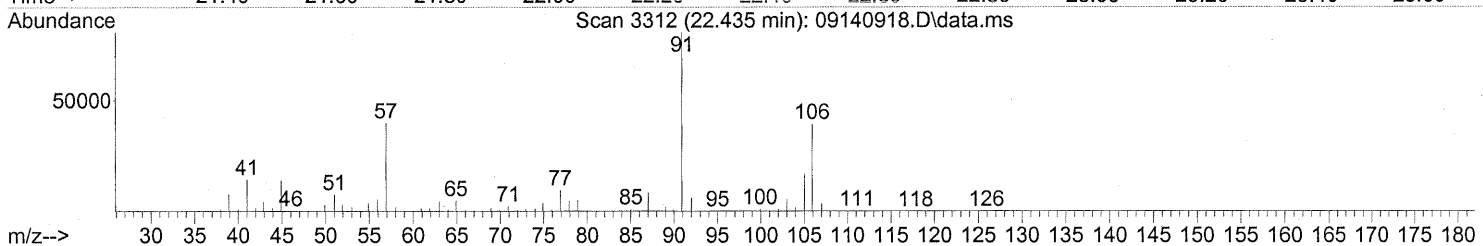
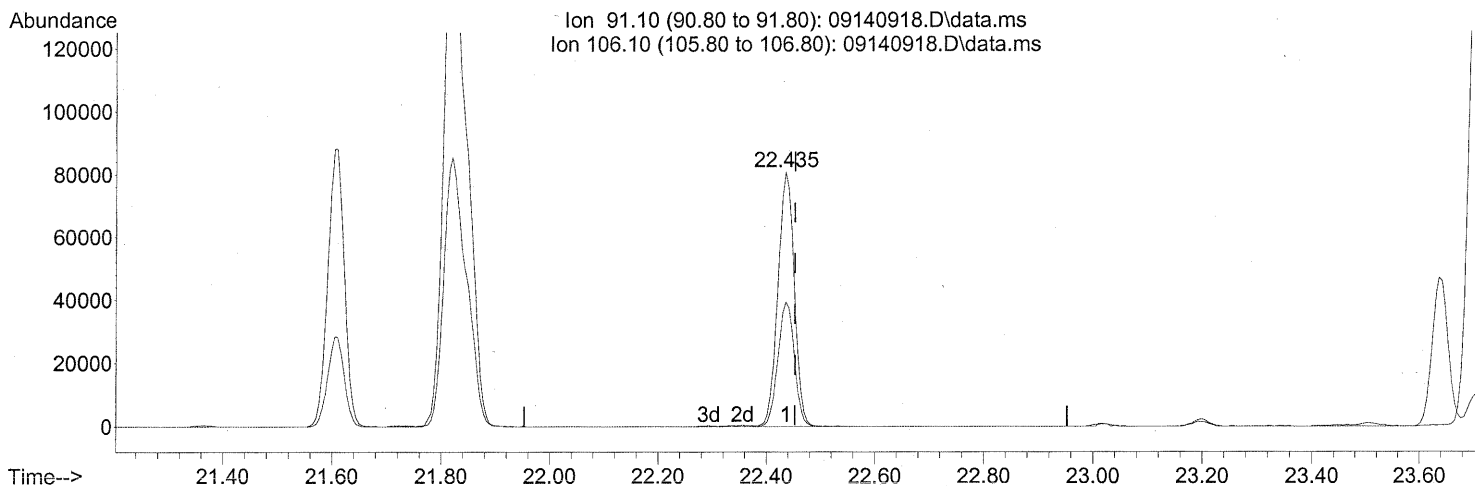
(69) Styrene (T)
 22.293min (-0.011) 1.41ng
 response 51709

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.75
103.00	47.80	48.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.435min (-0.017) 3.73ng

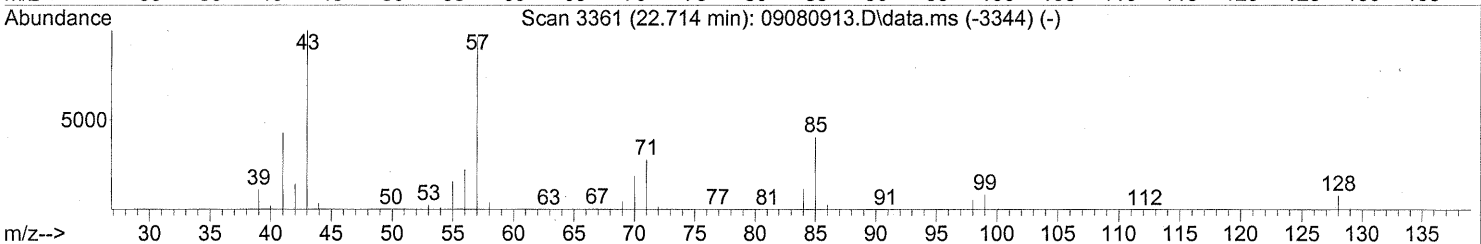
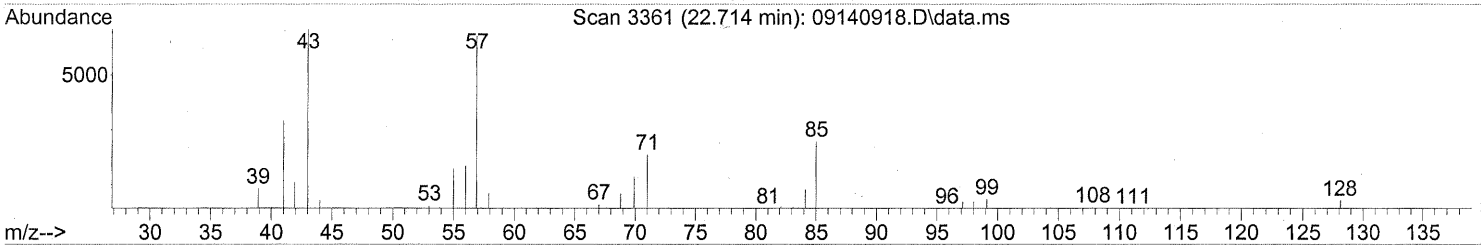
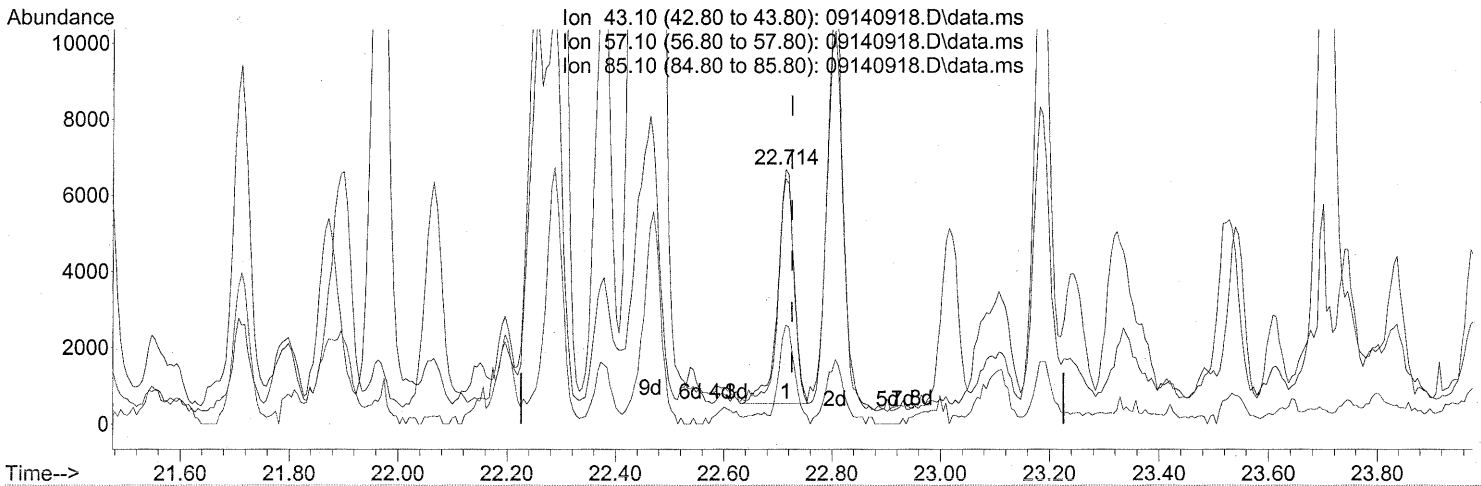
response 170235

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140918.D\data.ms

(71) n-Nonane (T)

22.714min (-0.011) 0.59ng

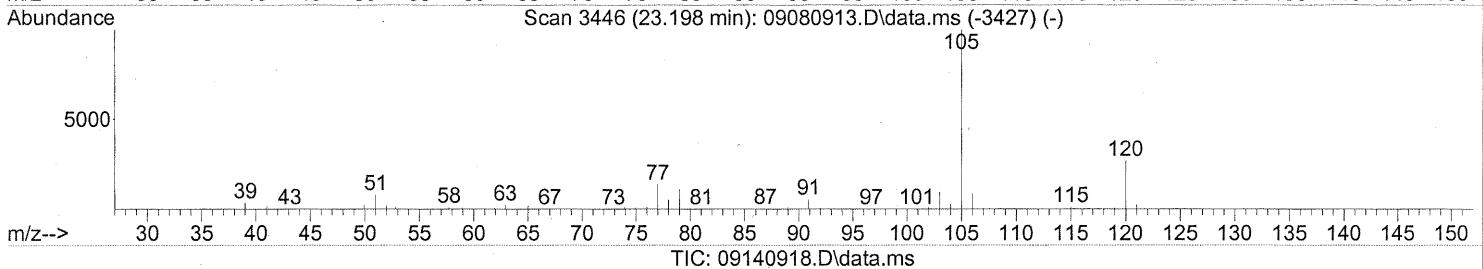
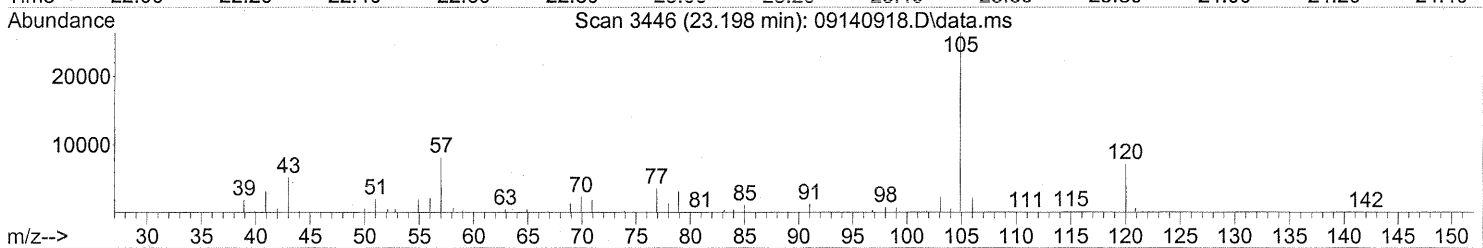
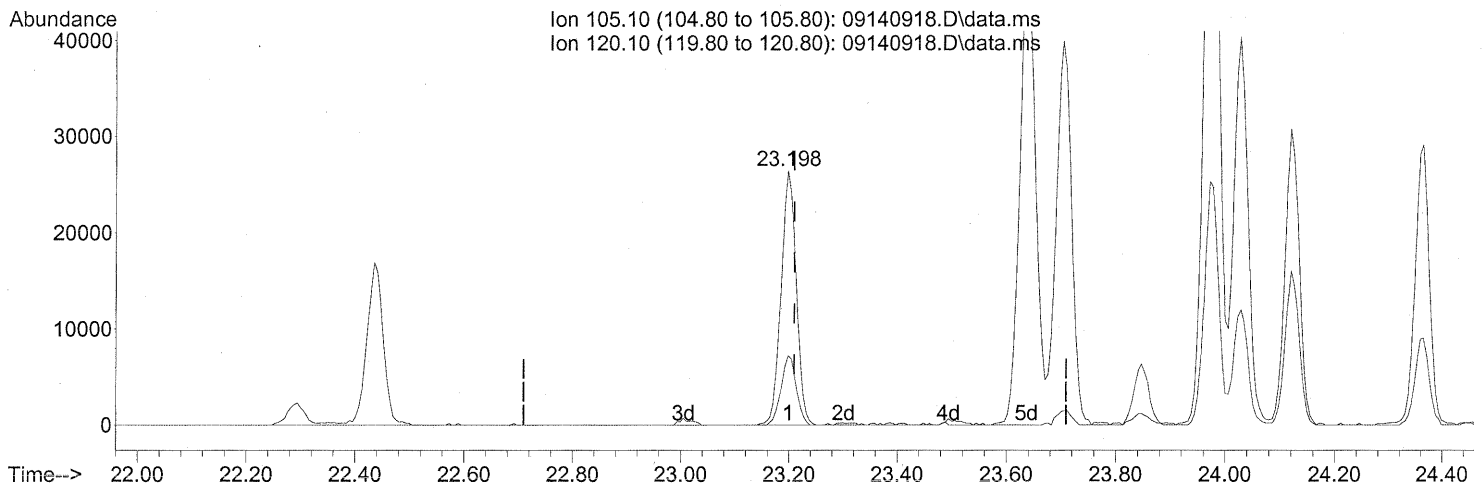
response 12999

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	92.07
85.10	33.10	40.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



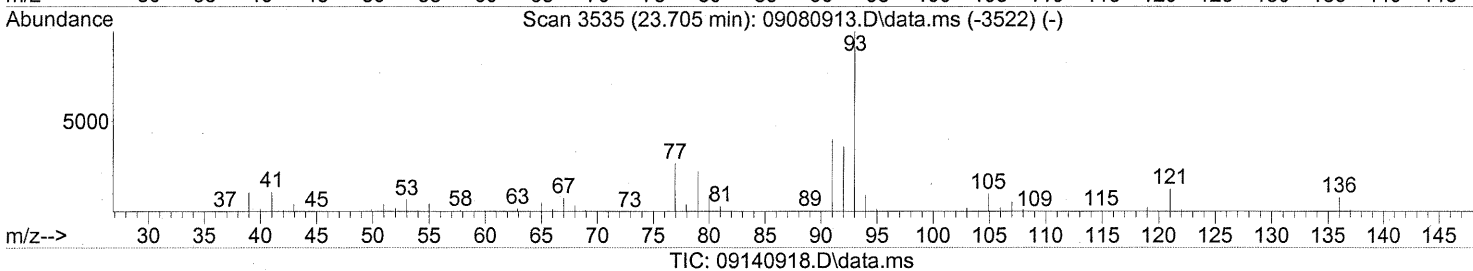
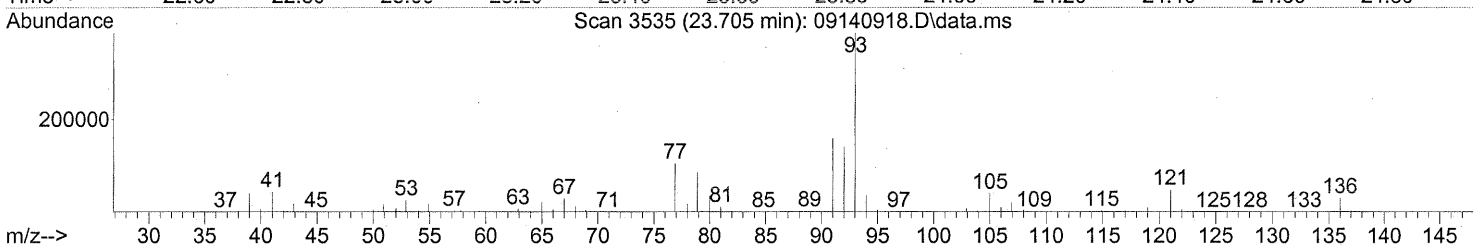
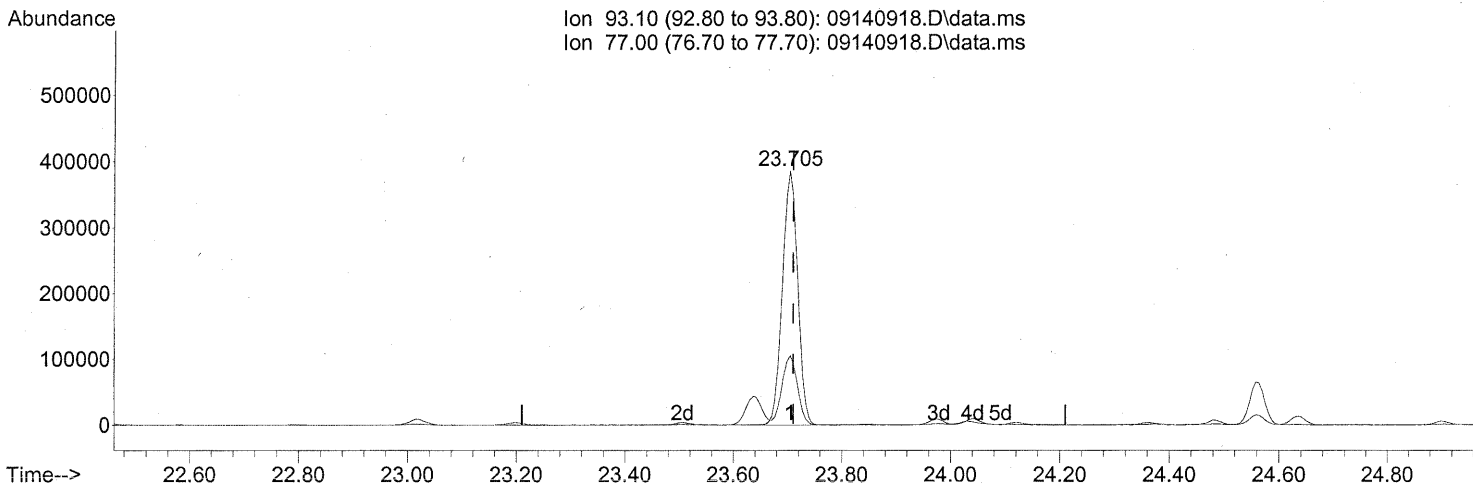
(74) Cumene (T)
 23.198min (-0.011) 0.82ng
 response 51475

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



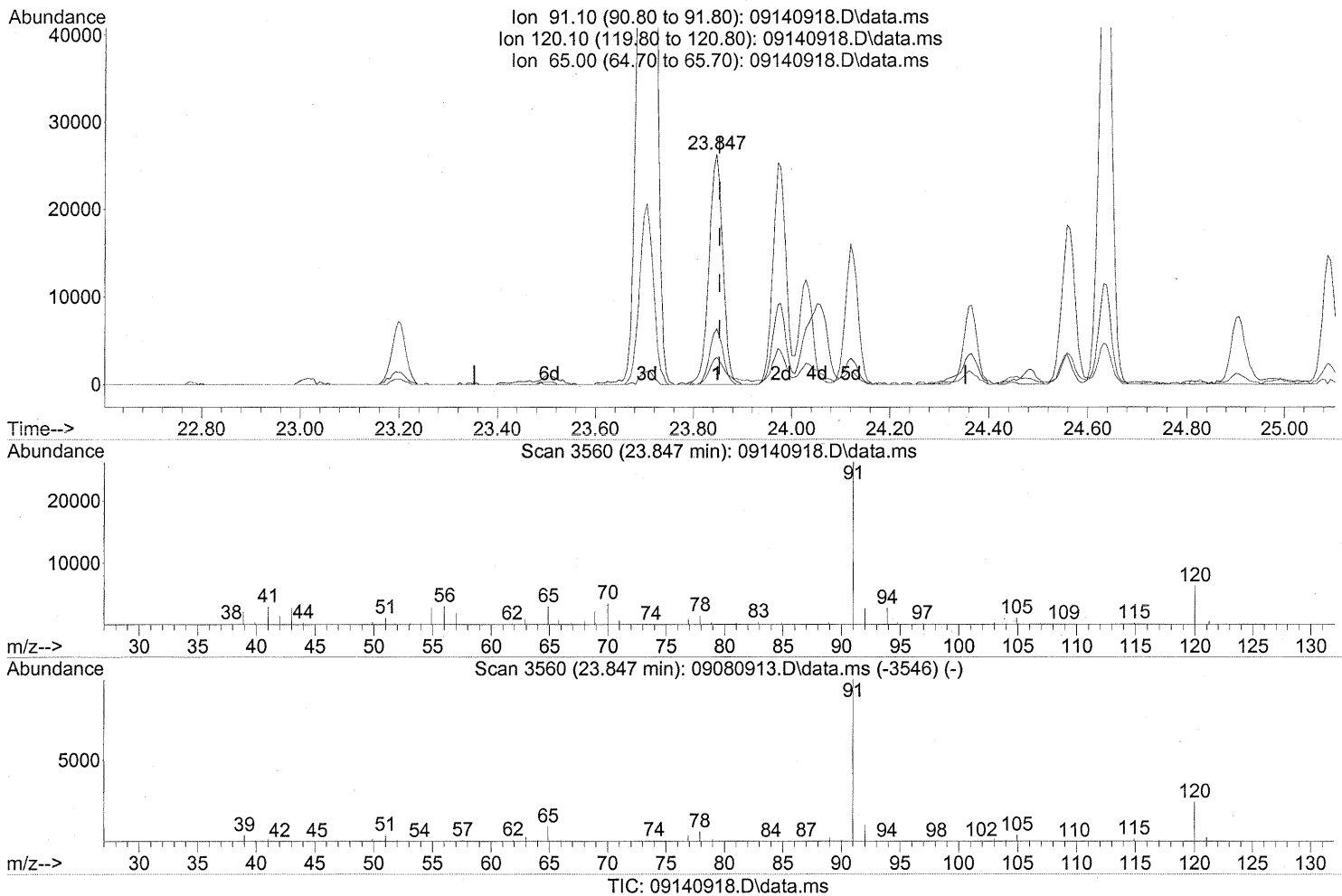
(75) alpha-Pinene (T)
 23.705min (-0.006) 25.53ng
 response 750343

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 0.70ng

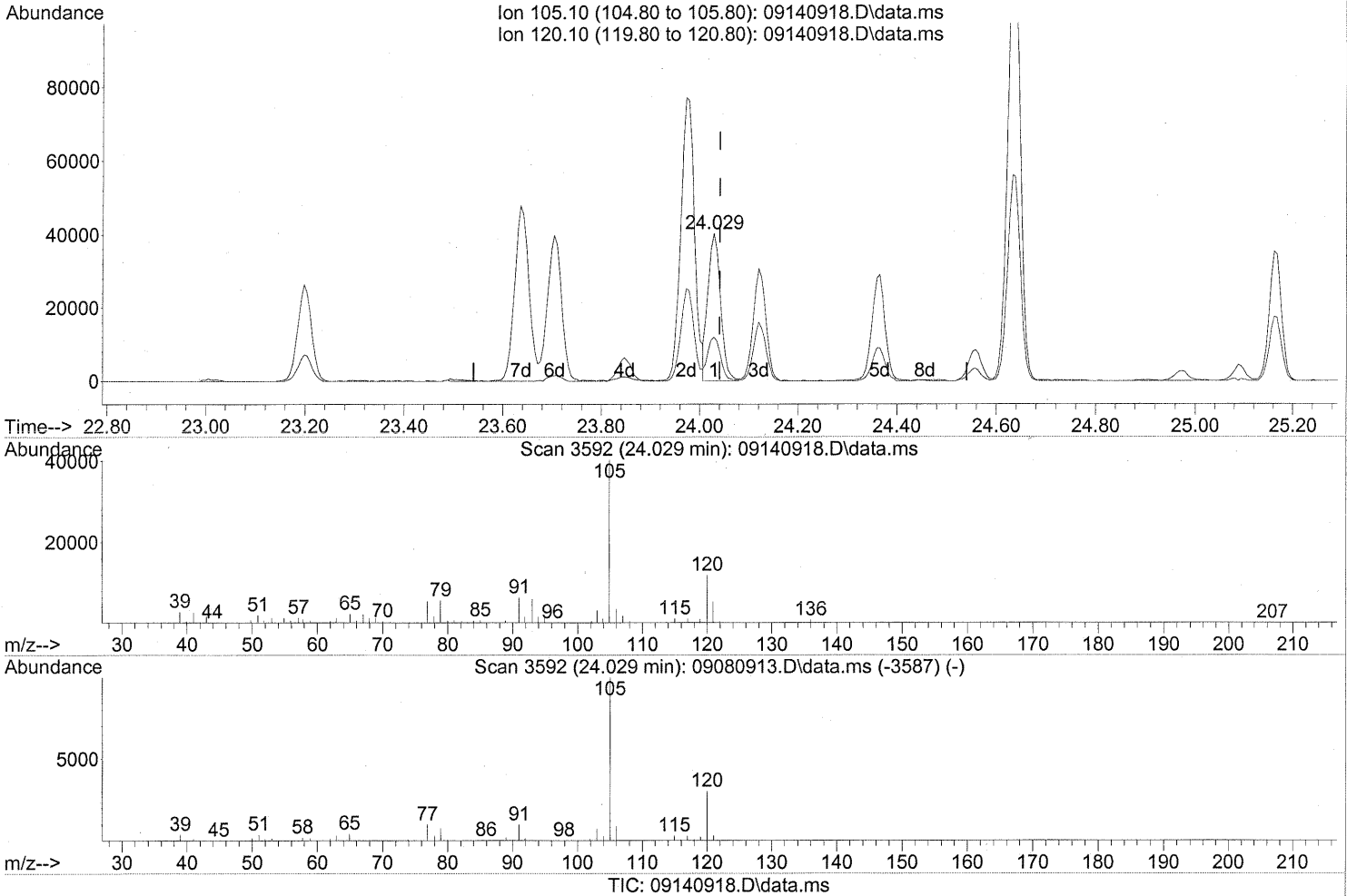
response 51166

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	23.34
65.00	10.30	15.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.029min (-0.011) 1.23ng

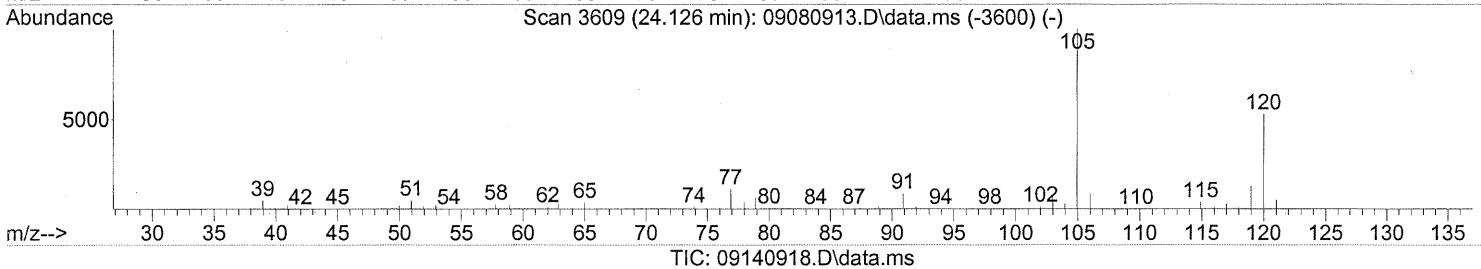
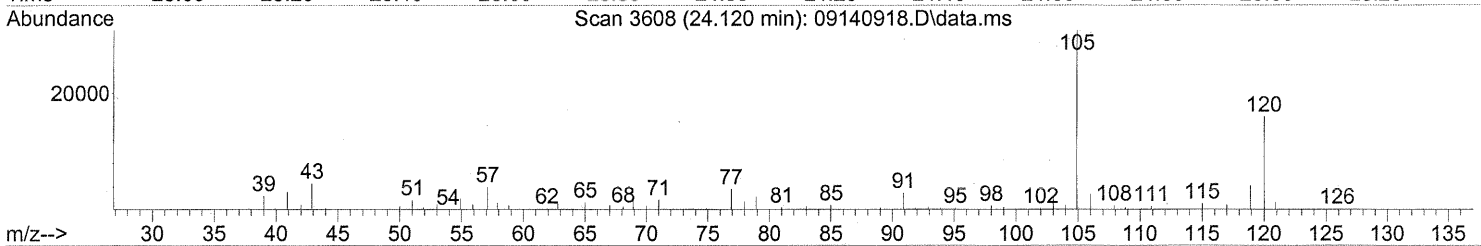
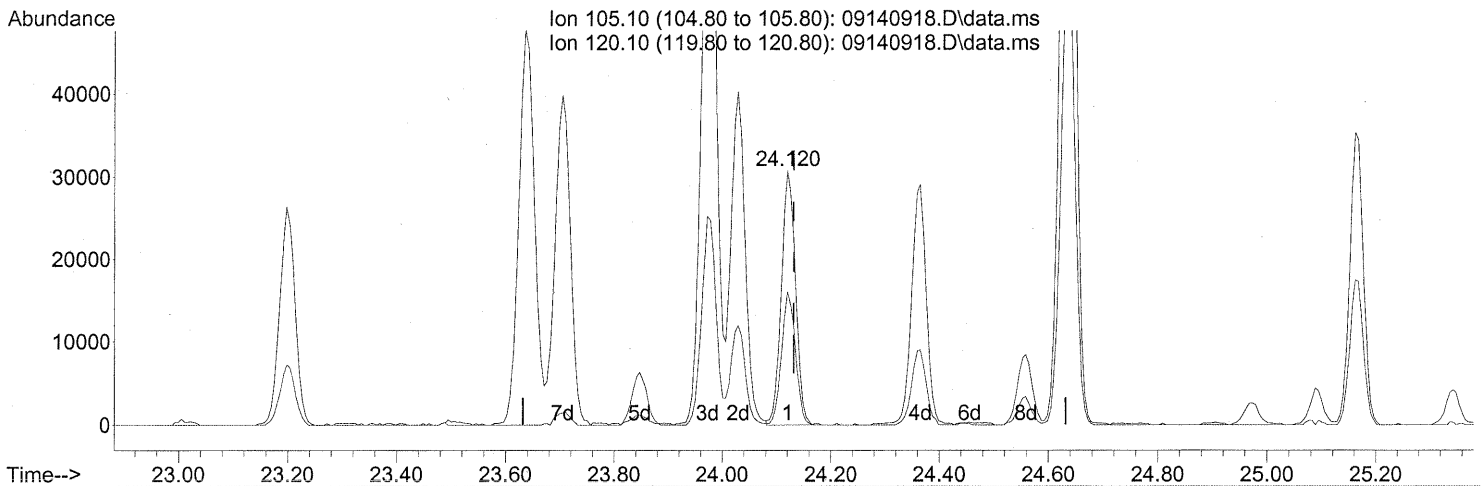
response 71534

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 1.14ng

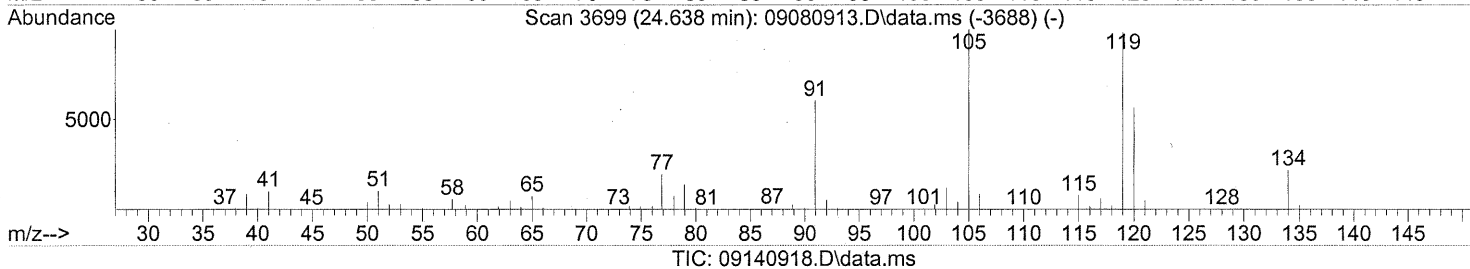
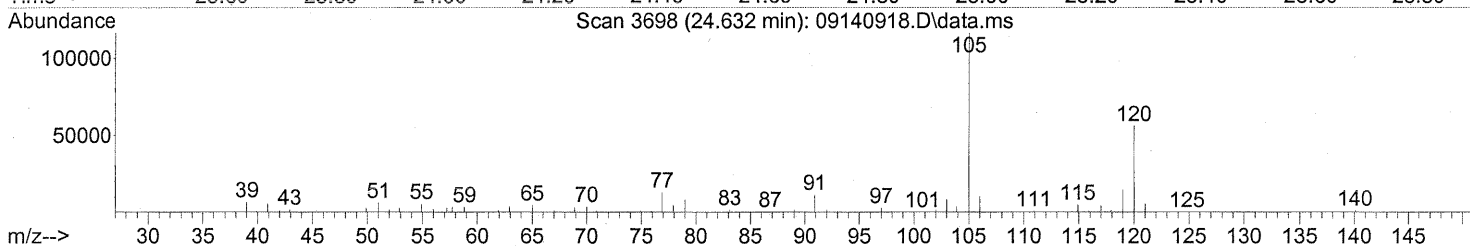
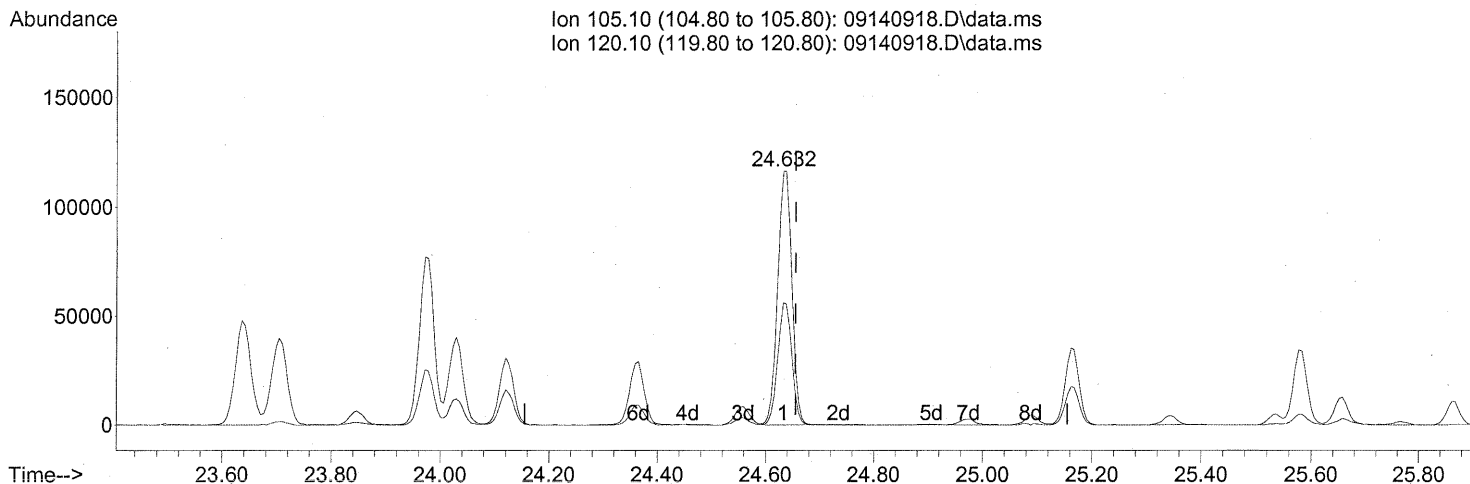
response 55563

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	51.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.632min (-0.023) 4.11ng

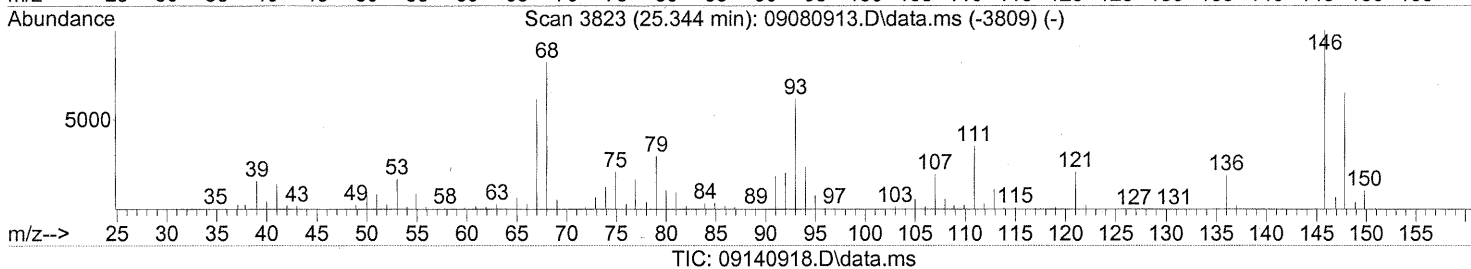
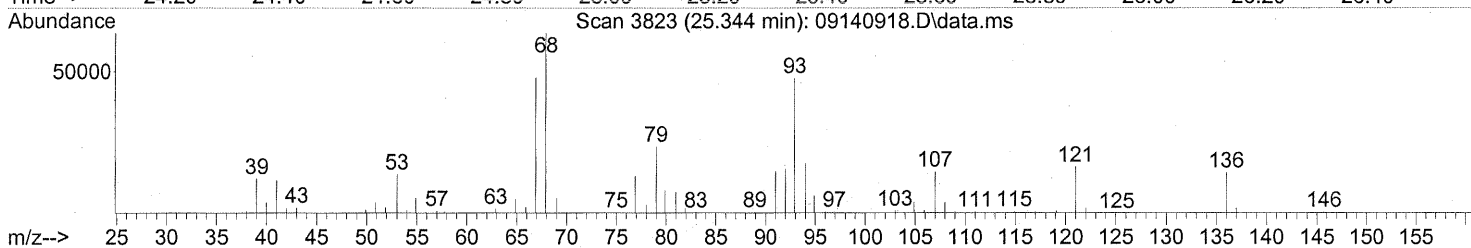
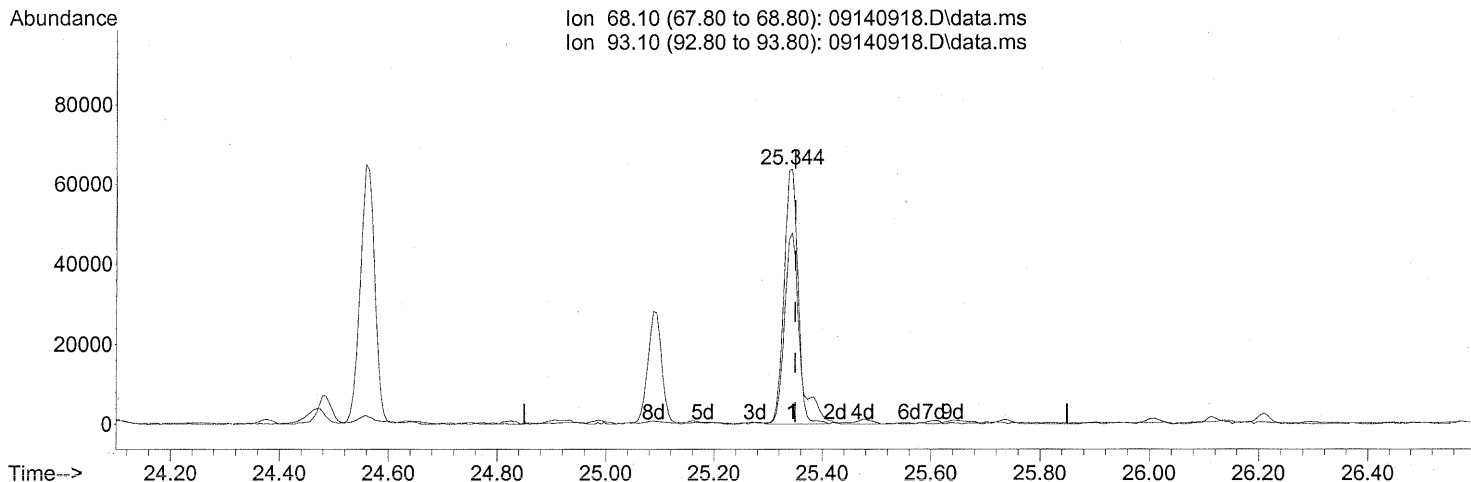
response 213134

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	47.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



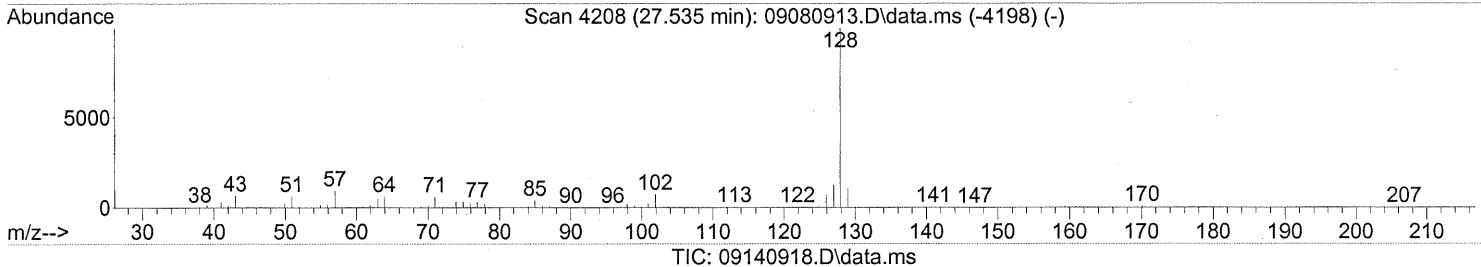
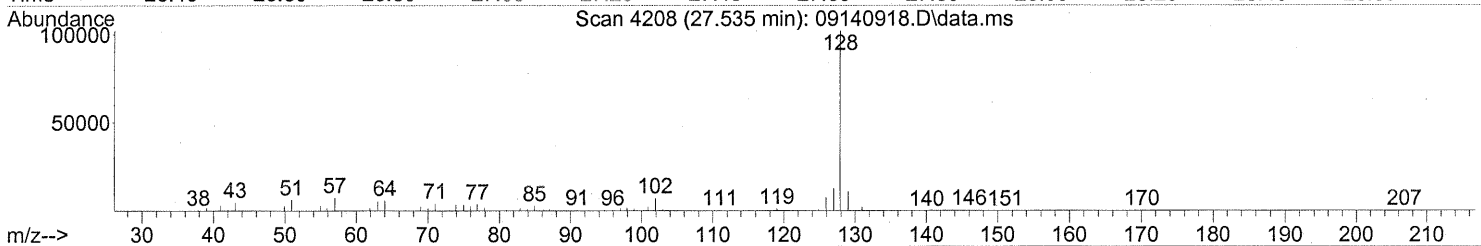
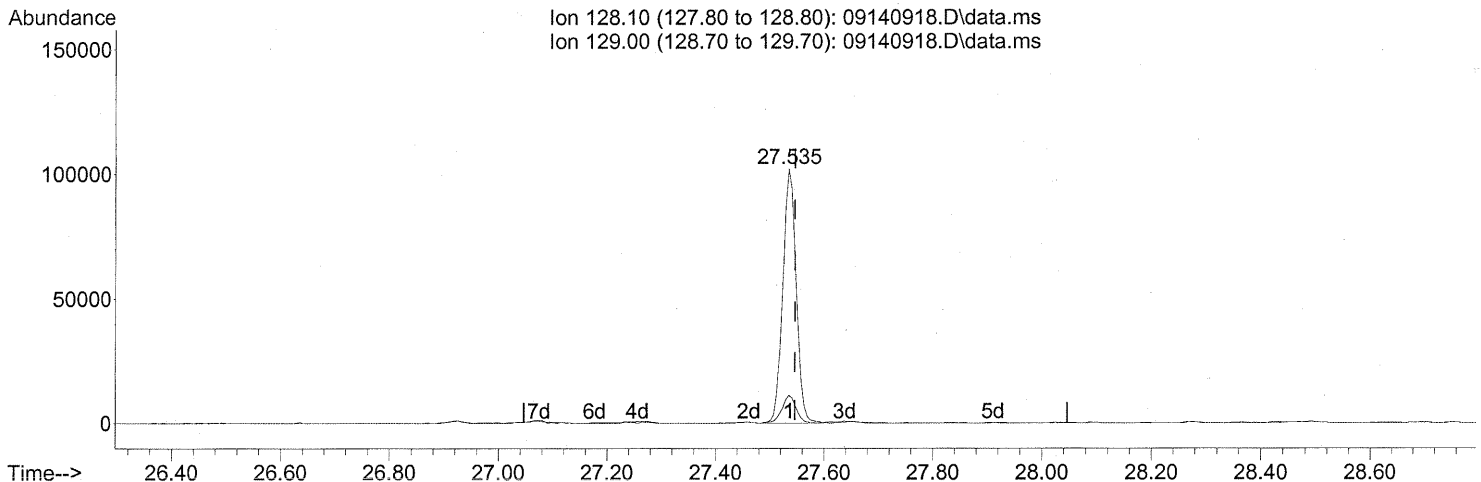
(91) d-Limonene (T)
 25.344min (-0.006) 6.09ng
 response 113361

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	83.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140918.D
 Acq On : 14 Sep 2009 17:53
 Operator : LH
 Sample : P0903145-002 (1000mL)
 Misc : Environmental H & E 102649
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 15 09:01:32 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 2.34ng

response 176321

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.66
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102650
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01438

CAS Project ID: P0903145
CAS Sample ID: P0903145-003

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.4	0.61	0.83	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.61	0.58	0.12	
74-87-3	Chloromethane	0.65	0.12	0.31	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	120	6.1	62	3.2	
75-05-8	Acetonitrile	100	0.61	62	0.36	
107-02-8	Acrolein	3.3	0.61	1.5	0.26	
67-64-1	Acetone	49	6.1	21	2.5	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.5	0.61	2.2	0.25	M1
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.74	0.12	0.097	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	0.14	0.12	0.039	0.034	
108-05-4	Vinyl Acetate	6.1	6.1	1.7	1.7	
78-93-3	2-Butanone (MEK)	3.5	0.61	1.2	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

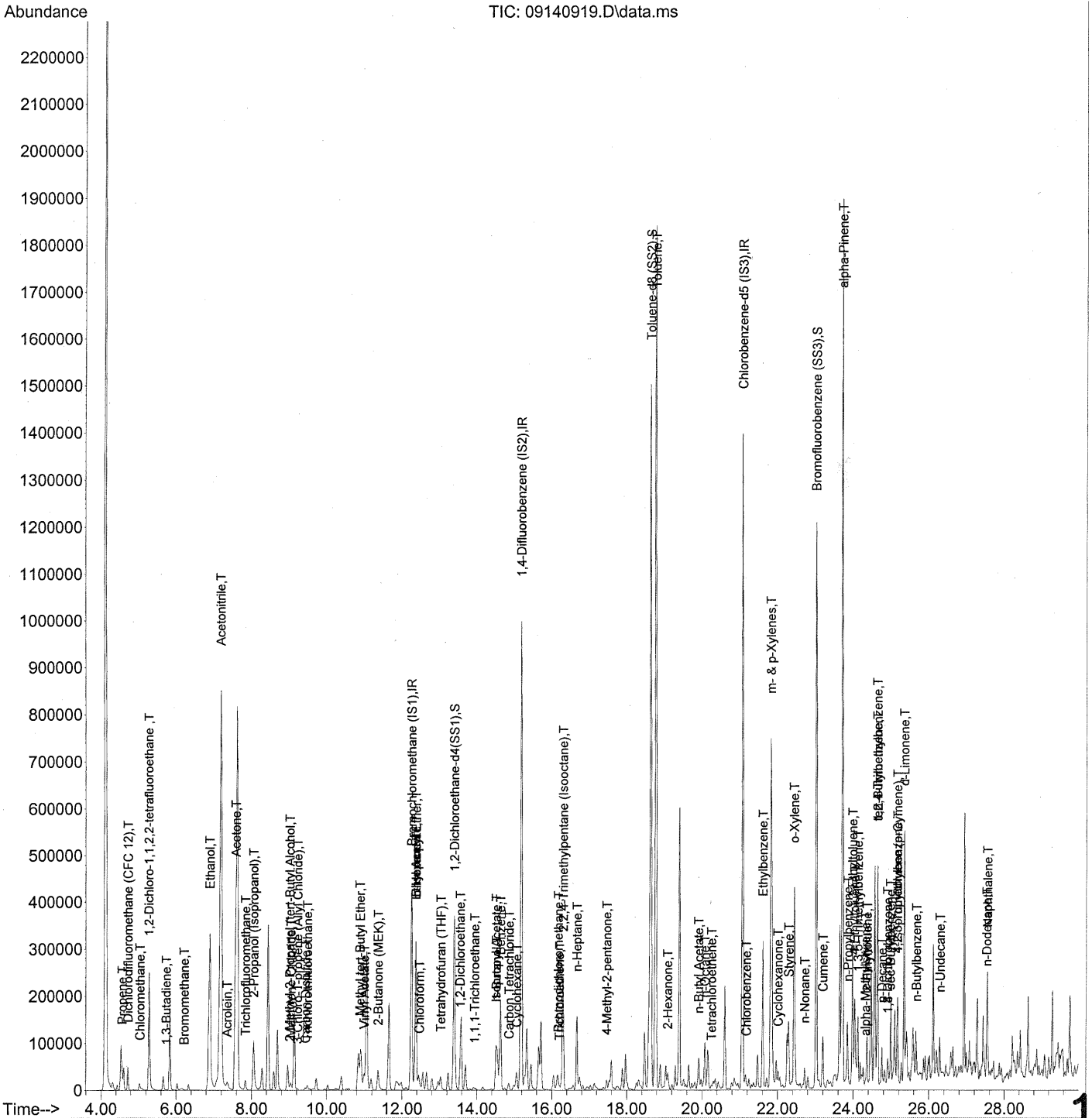
M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 9/22/09 **113**

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

LH 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	277686	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1347368	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	564180	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.39	65	372946	24.371	ng	-0.03
Spiked Amount				25.000		
				Recovery =		97.48% ✓
57) Toluene-d8 (SS2)	18.63	98	1399786	24.786	ng	-0.01
Spiked Amount				25.000		
				Recovery =		99.16% ✓
73) Bromofluorobenzene (SS3)	23.02	174	533181	26.347	ng	0.00
Spiked Amount				25.000		
				Recovery =		105.40% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	13336m	1.179	ng	
3) Dichlorodifluoromethan...	4.72	85	51099	2.364	ng	98
4) Chloromethane	5.04	50	9498	0.536	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1138	0.088	ng	83
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	625	0.053	ng	# 78
8) Bromomethane	6.21	94	892	0.080	ng	80
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.89	45	785729m	95.850	ng	
11) Acetonitrile	7.18	41	1778708	85.791	ng	100
12) Acrolein	7.35	56	16812	2.757	ng	99
13) Acetone	7.58	58	336261	40.717	ng	# 1
14) Trichlorofluoromethane	7.84	101	23857	1.191	ng	99
15) 2-Propanol (Isopropanol)	8.06	45	128843m	4.530	ng	M
16) Acrylonitrile	8.37	53	588	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.01	59	8614	0.293	ng	# 67
19) Methylene Chloride	9.04	84	5588	0.444	ng	81
20) 3-Chloro-1-propene (Al...	9.23	41	772	0.052	ng	# 40
21) Trichlorotrifluoroethane	9.49	151	6024	0.611	ng	83
22) Carbon Disulfide	9.43	76	12369	0.283	ng	96
23) trans-1,2-Dichloroethene	10.40	61	52	N.D.		
24) 1,1-Dichloroethane	10.84	63	331	N.D.		
25) Methyl tert-Butyl Ether	10.88	73	3670	0.116	ng	YES LH 83
26) Vinyl Acetate	11.00	86	12568m	5.054	ng	
27) 2-Butanone (MEK)	11.36	72	23086	2.910	ng	# 89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.37	87	3420	0.372	ng	# 1
30) Ethyl Acetate	12.36	61	7768	1.929	ng	# 65
31) n-Hexane	12.37	57	202770	12.711	ng	9117

LH 9/22/09

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 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	12.46	83	22258	1.137 ng	99
34) Tetrahydrofuran (THF)	13.03	72	2173	0.296 ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.55	62	9001	0.667 ng	98
38) 1,1,1-Trichloroethane	13.94	97	1139	0.067 ng	# 75
39) Isopropyl Acetate	14.51	61	625	0.084 ng	# 1
40) 1-Butanol	14.51	56	91990	7.568 ng	91
41) Benzene	14.63	78	269947	5.618 ng	99
42) Carbon Tetrachloride	14.86	117	8083	0.560 ng	96
43) Cyclohexane	15.06	84	25272	1.441 ng	87
44) tert-Amyl Methyl Ether	15.56	73	74	N.D.	
45) 1,2-Dichloropropane	15.71	63	62	N.D.	
46) Bromodichloromethane	16.17	83	8948	0.602 ng	# M 18
47) Trichloroethene	16.20	130	2140	0.148 ng	100
48) 1,4-Dioxane	16.20	88	166	N.D.	
49) 2,2,4-Trimethylpentane...	16.30	57	310859	6.421 ng	98
50) Methyl Methacrylate	16.50	100	58	N.D.	
51) n-Heptane	16.66	71	52745	4.301 ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	17.46	58	7665	0.715 ng	89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	18.25	97	546	N.D.	
58) Toluene	18.76	91	1775830	33.684 ng	99
59) 2-Hexanone	19.08	43	23730	0.933 ng	75
60) Dibromochloromethane	19.29	129	234	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	19.91	43	51165	1.758 ng	in 9/22/09 88
63) n-Octane	20.07	57	19448	1.965 ng	88
64) Tetrachloroethene	20.25	166	3210	0.197 ng	YES 96
65) Chlorobenzene	21.17	112	2714	0.078 ng	# 43
66) Ethylbenzene	21.60	91	302751	5.230 ng	96
67) m- & p-Xylenes	21.82	91	782396	17.292 ng	95
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.29	104	65359	1.759 ng	96
70) o-Xylene	22.44	91	265105	5.734 ng	96
71) n-Nonane	22.71	43	18445	0.822 ng	95
72) 1,1,2,2-Tetrachloroethane	22.44	83	813	N.D.	
74) Cumene	23.20	105	81427	1.287 ng	98
75) alpha-Pinene	23.70	93	968207	32.559 ng	95
76) n-Propylbenzene	23.85	91	76155	1.030 ng	91
77) 3-Ethyltoluene	23.97	105	222508	3.721 ng	98
78) 4-Ethyltoluene	24.03	105	106106	1.797 ng	98
79) 1,3,5-Trimethylbenzene	24.12	105	79914	1.626 ng	9118

Data Path : J:\MS16\DATA\2009_09\14\
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 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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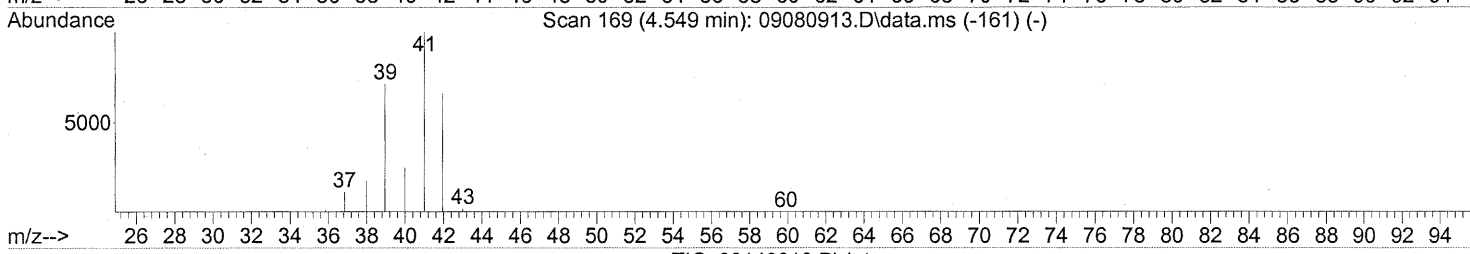
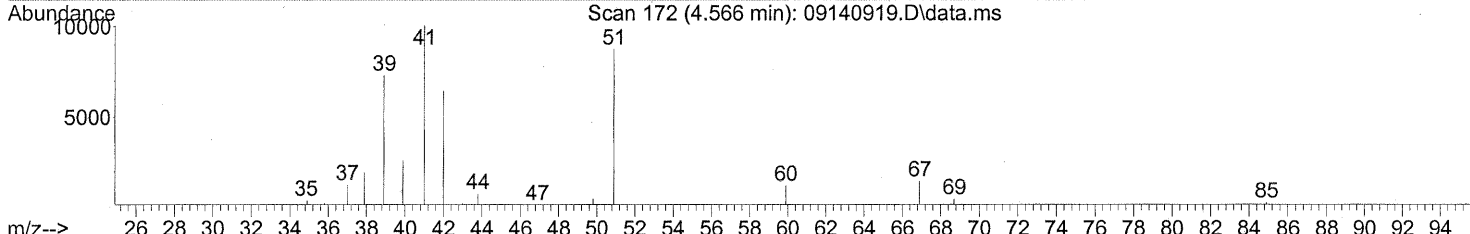
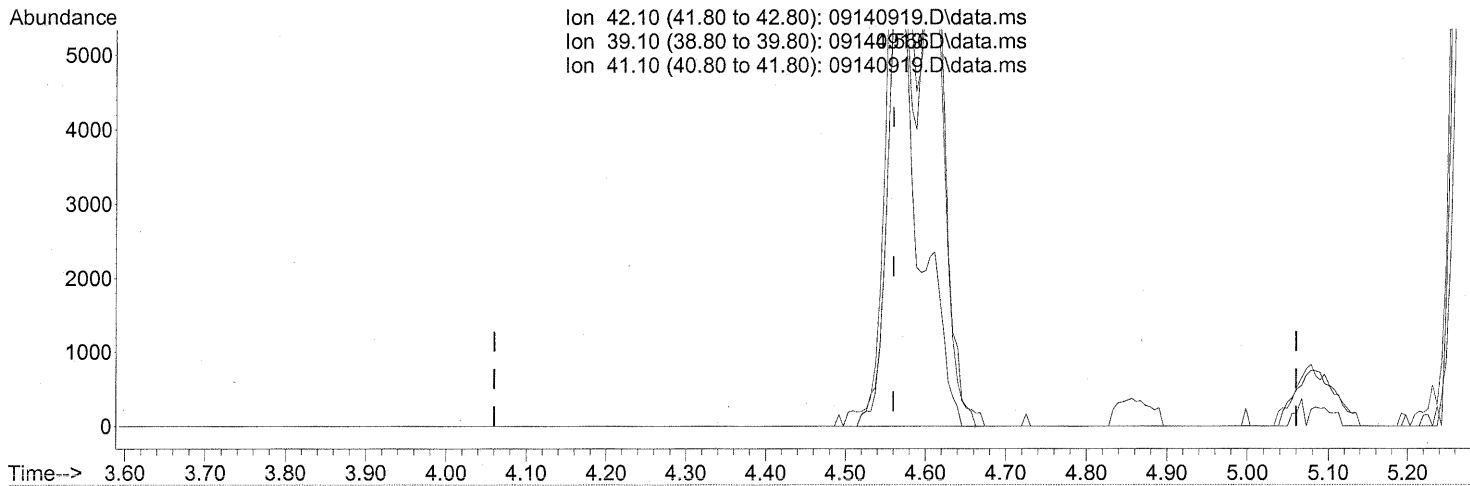
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.32	118	1612	0.057	ng	# 82
81) 2-Ethyltoluene	24.36	105	75447	1.203	ng	98
82) 1,2,4-Trimethylbenzene	24.63	105	295653	5.639	ng	93
83) n-Decane	24.75	57	31069	1.132	ng	79
84) Benzyl Chloride	24.81	91	1167	N.D.		
85) 1,3-Dichlorobenzene	24.91	146	2114	0.069	ng	98
86) 1,4-Dichlorobenzene	24.91	146	2114	0.066	ng	99
87) sec-Butylbenzene	24.97	105	6518	0.095	ng	# 59
88) 4-Isopropyltoluene (p-...	25.16	119	46474	0.699	ng	93
89) 1,2,3-Trimethylbenzene	25.16	105	77346	1.507	ng	97
90) 1,2-Dichlorobenzene	25.33	146	1207	N.D.		
91) d-Limonene	25.34	68	147018	7.807	ng	80
92) 1,2-Dibromo-3-Chloropr...	26.29	157	68	N.D.		
93) n-Undecane	26.29	57	30178	0.953	ng	90
94) 1,2,4-Trichlorobenzene	27.40	180	126	N.D.		
95) Naphthalene	27.53	128	179631	2.359	ng	98
96) n-Dodecane	27.52	57	26235	0.841	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.01	55	20194	1.035	ng	# 79
99) tert-Butylbenzene	24.63	119	38254	0.741	ng	# 55
100) n-Butylbenzene	25.67	91	24839	0.472	ng	# 34

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

SH

4.566min (+0.006) 1.51ng

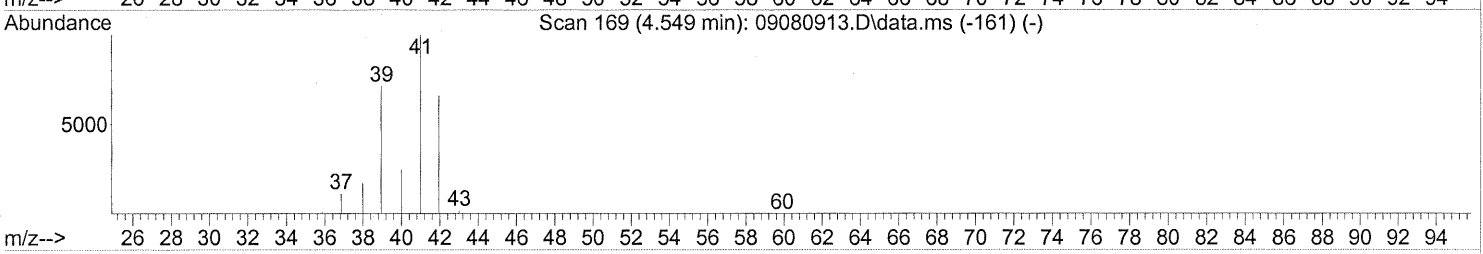
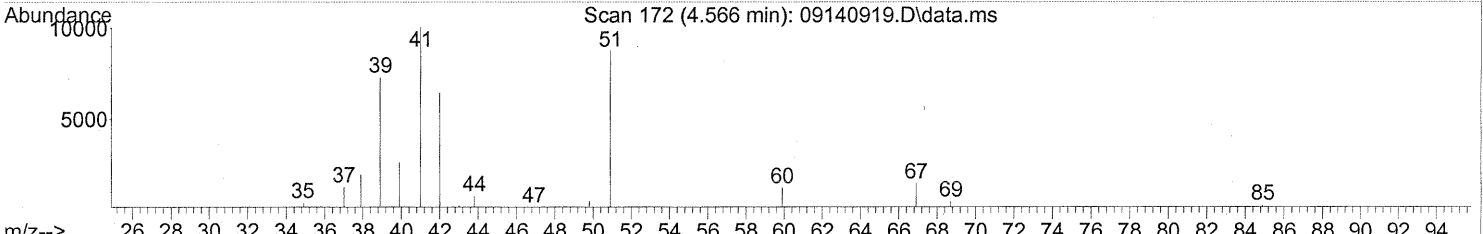
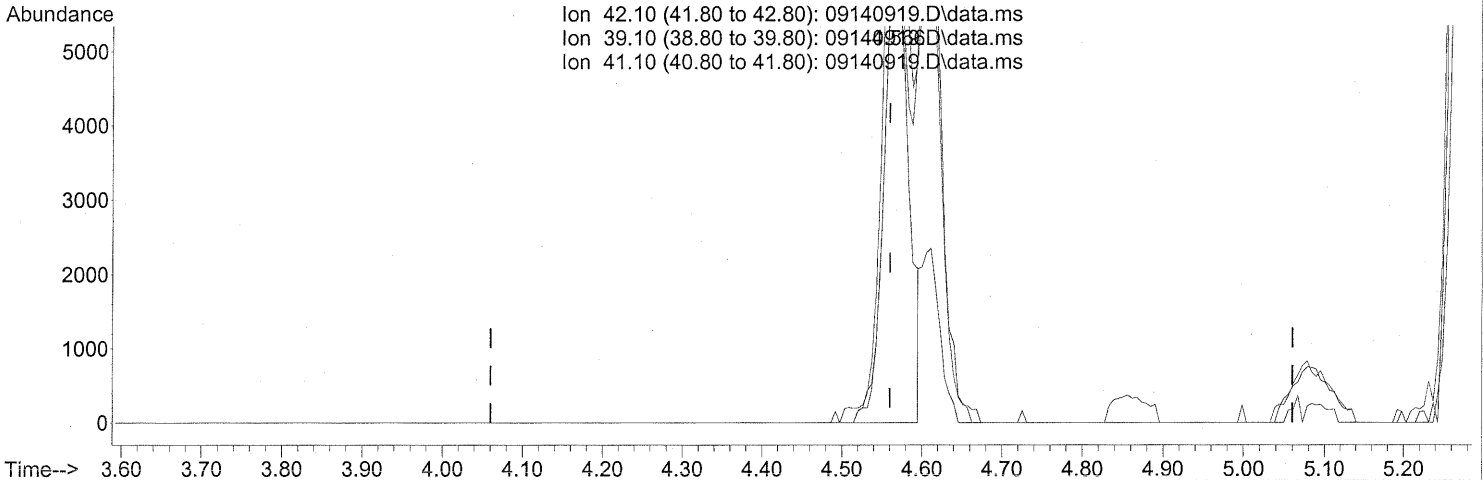
response 17111

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	85.16#
41.10	152.10	129.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.566min (+0.006) 1.18ng m
 response 13336

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	109.27
41.10	152.10	165.56
0.00	0.00	0.00

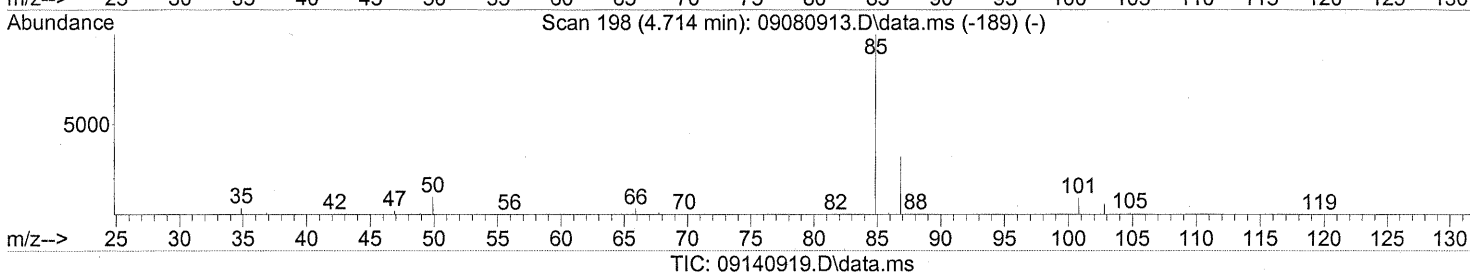
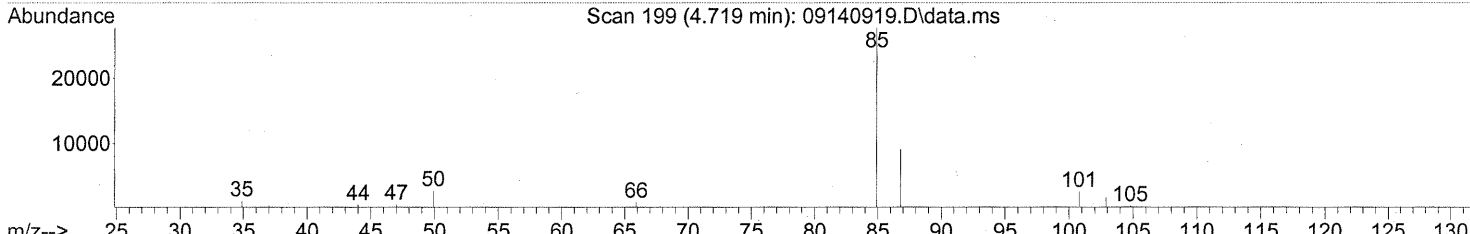
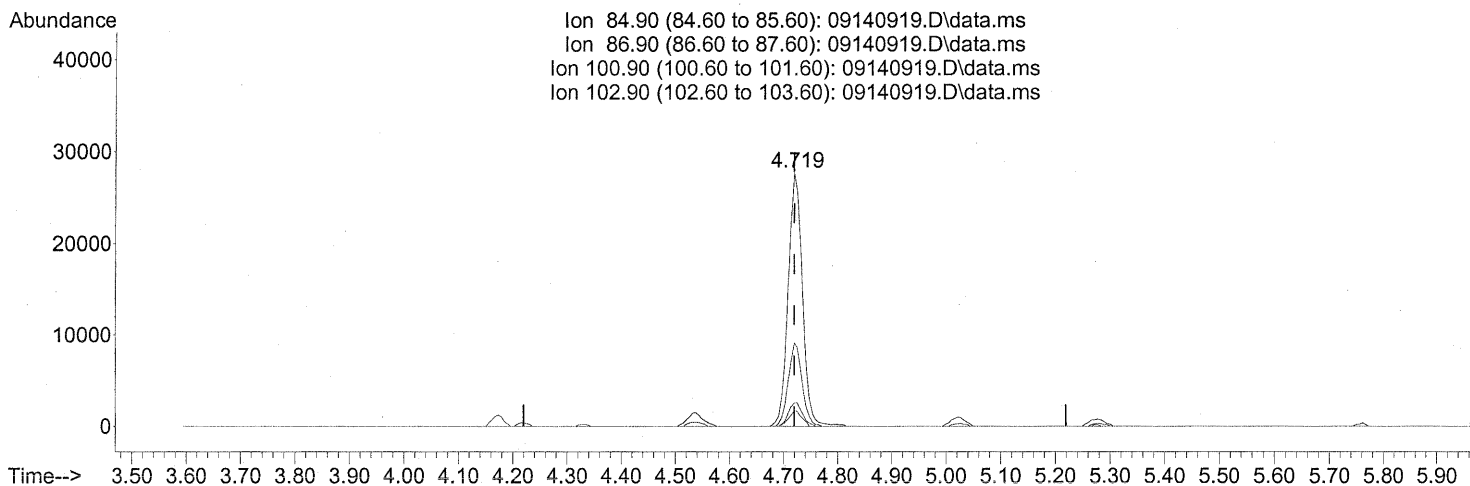
*SH → IC
 in 9/18/09*

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (+0.000) 2.36ng

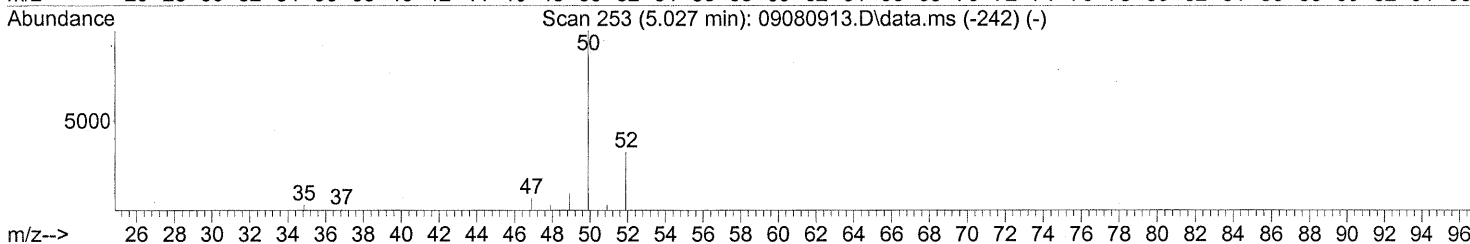
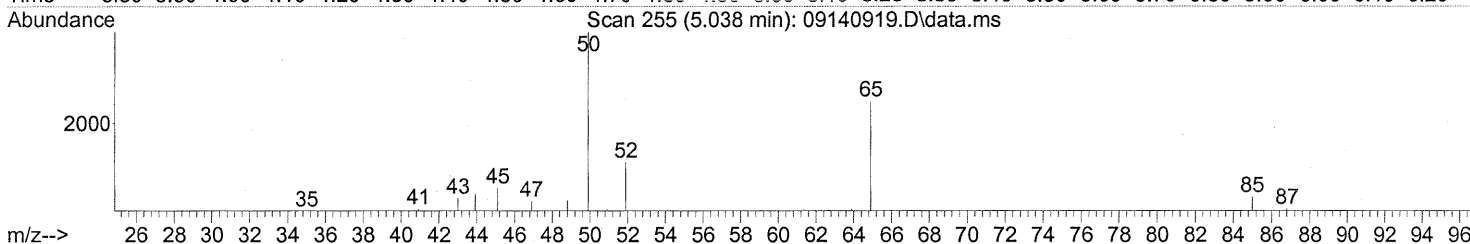
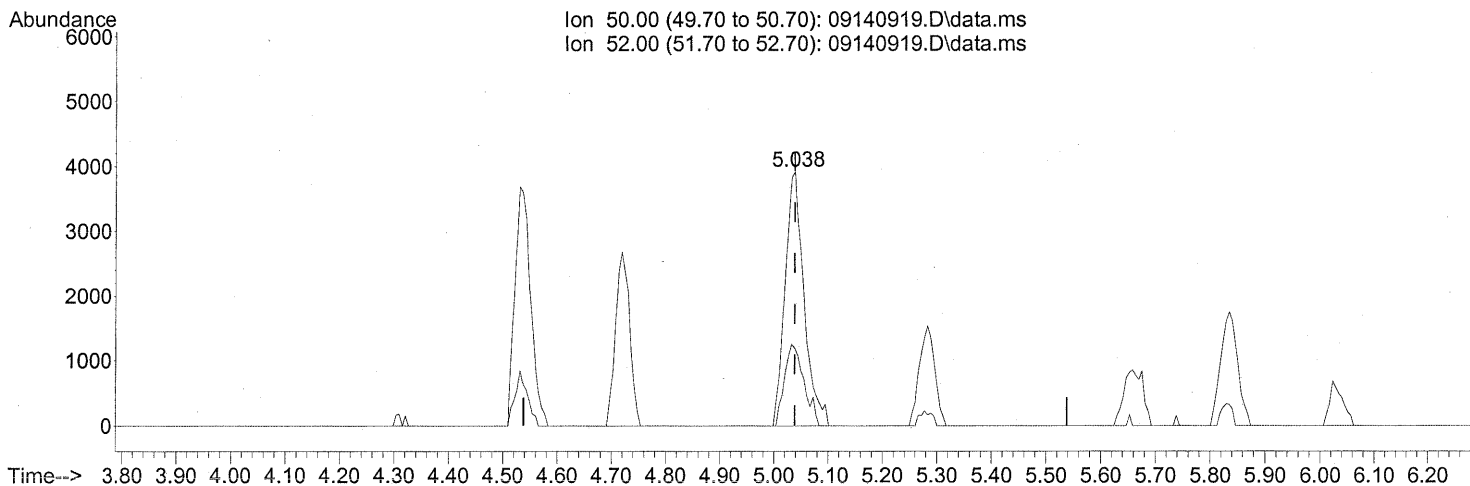
response 51099

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	31.80
100.90	8.60	9.16
102.90	5.90	5.55

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(4) Chloromethane (T)

5.038min (+0.000) 0.54ng

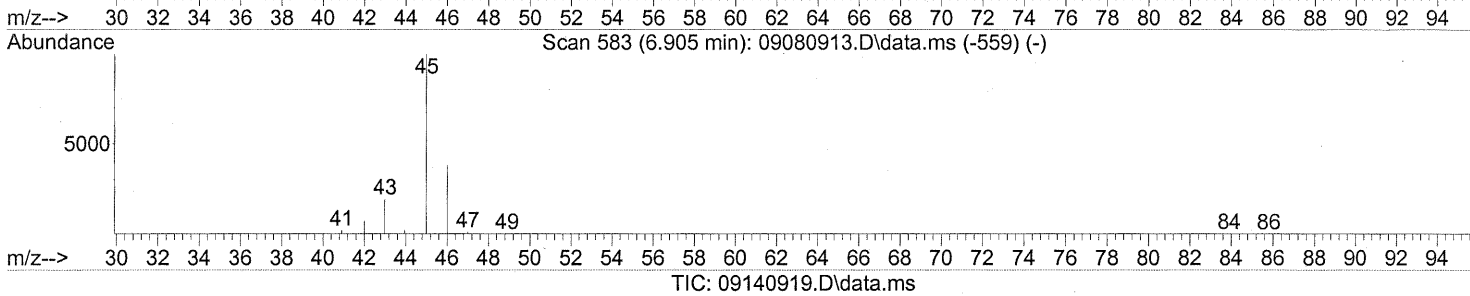
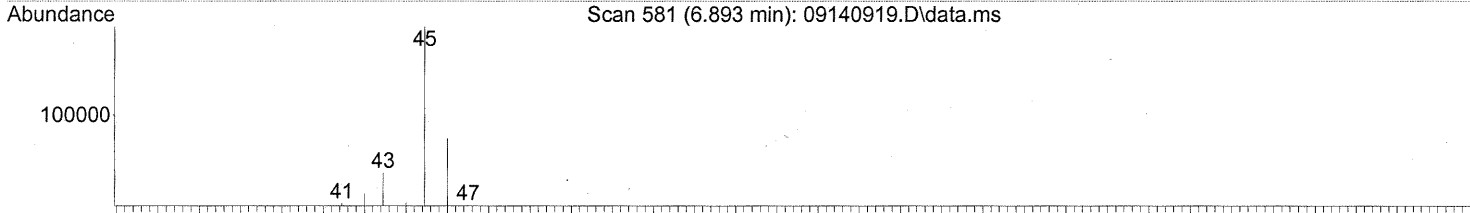
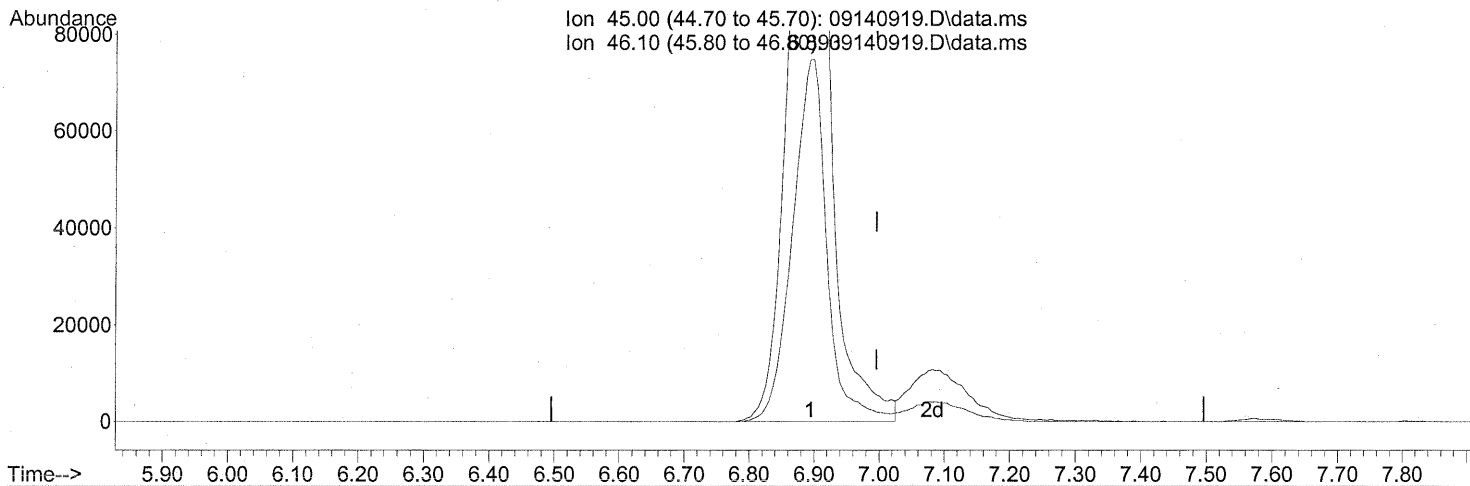
response 9498

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	32.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.893min (-0.102) 87.60ng

response 718101

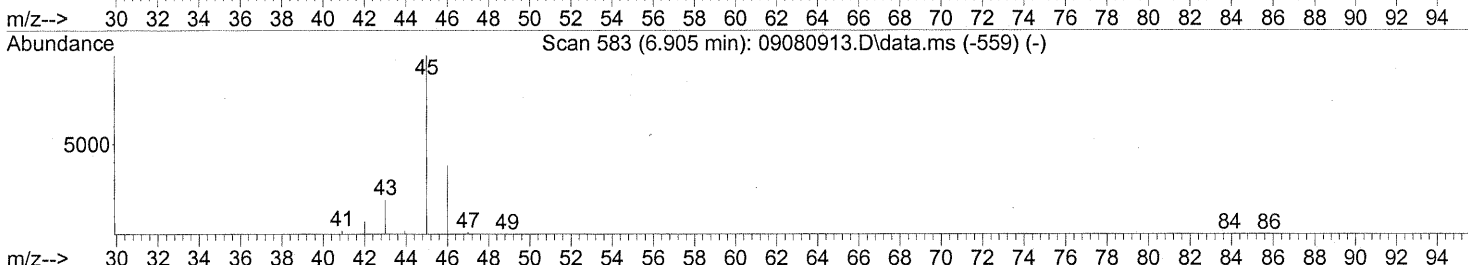
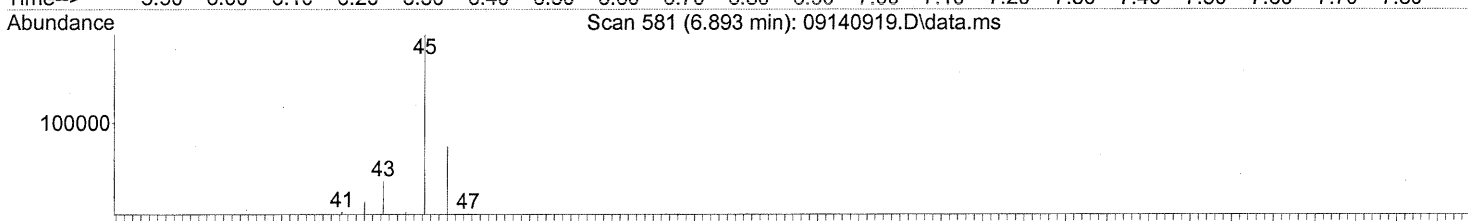
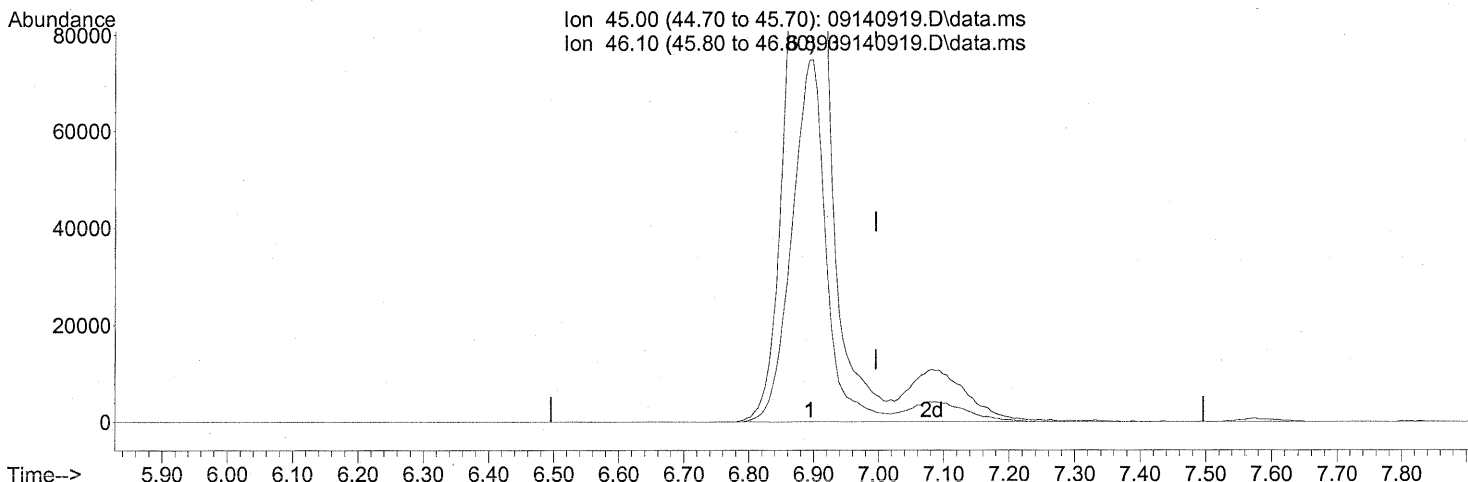
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.33
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.893min (-0.102) 95.85ng m
 response 785729

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.03
0.00	0.00	0.00
0.00	0.00	0.00

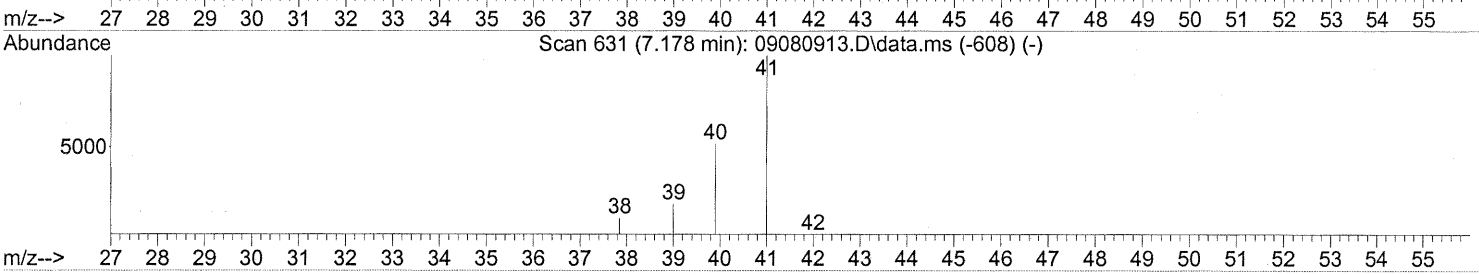
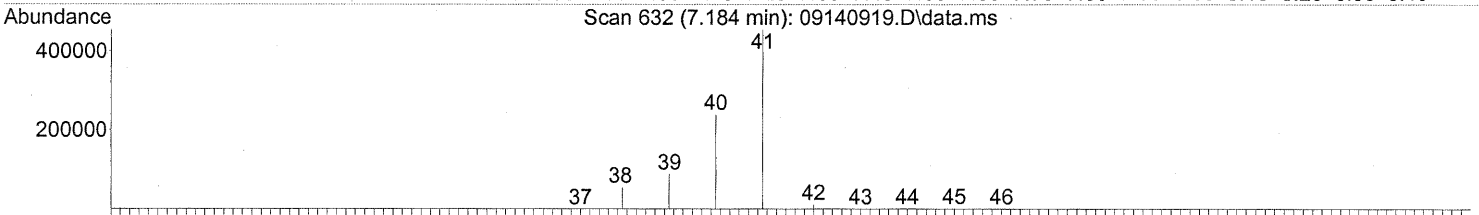
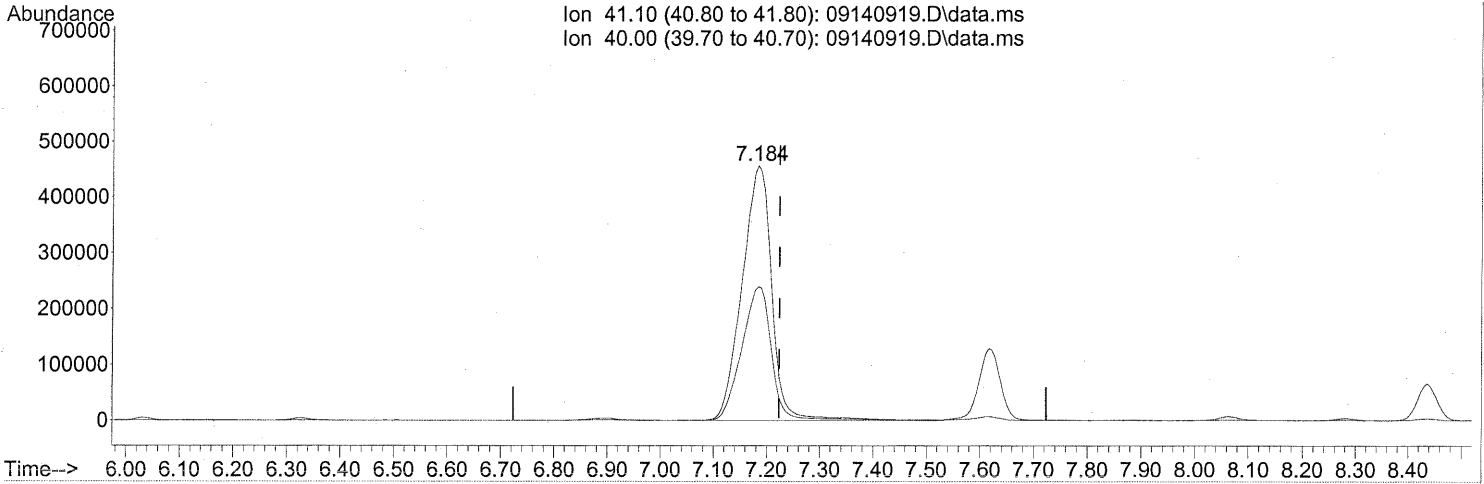
PT → IC
LH 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(11) Acetonitrile (T)

7.184min (-0.040) 85.79ng

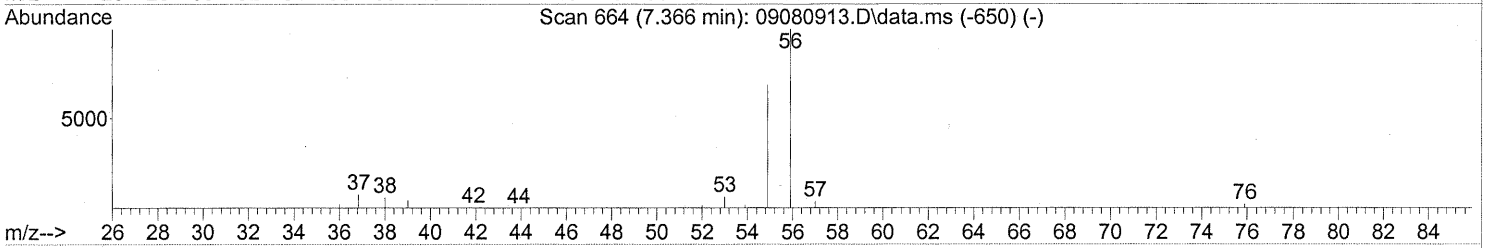
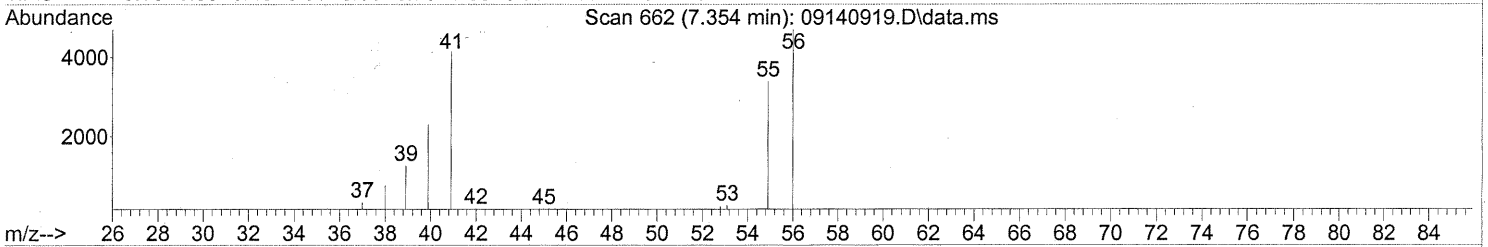
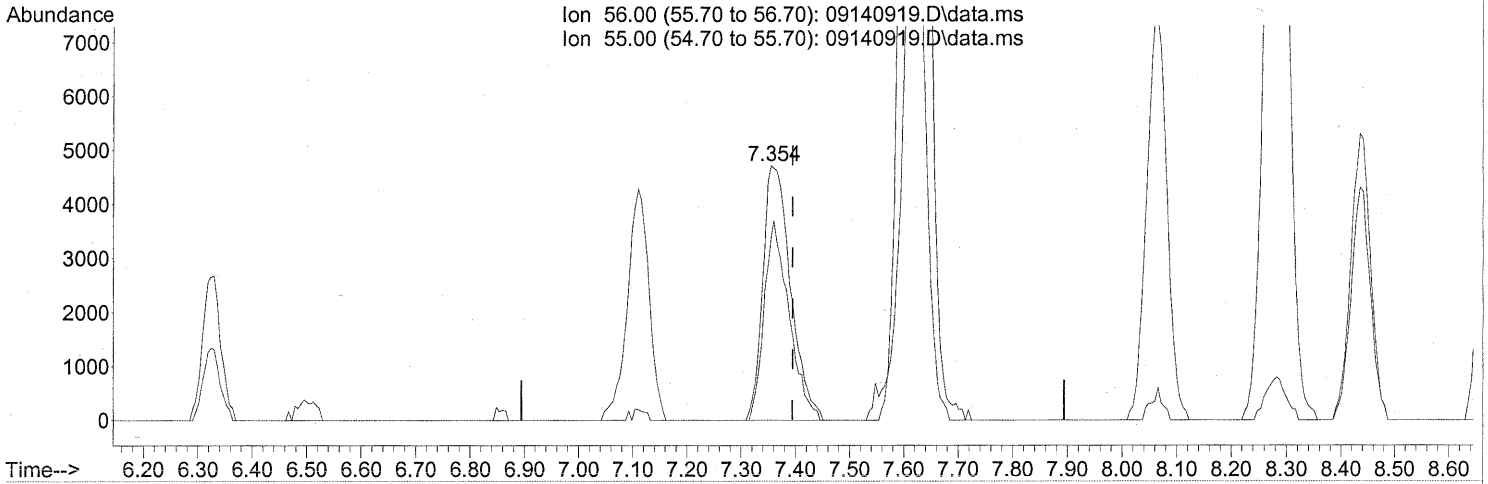
response 1778708

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140919.D
Acq On : 14 Sep 2009 18:31
Operator : LH
Sample : P0903145-003 (1000mL)
Misc : Environmental H & E 102650
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09140919.D\data.ms

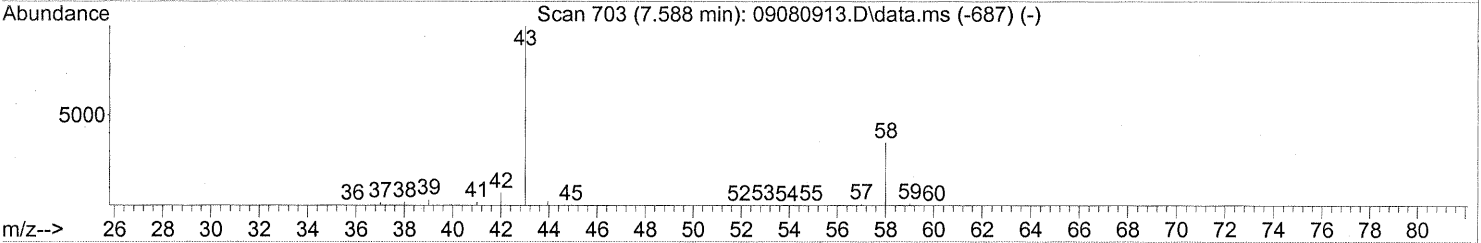
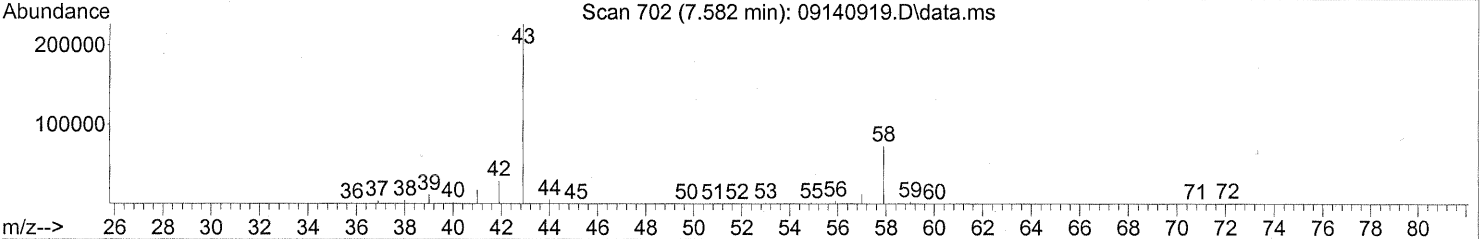
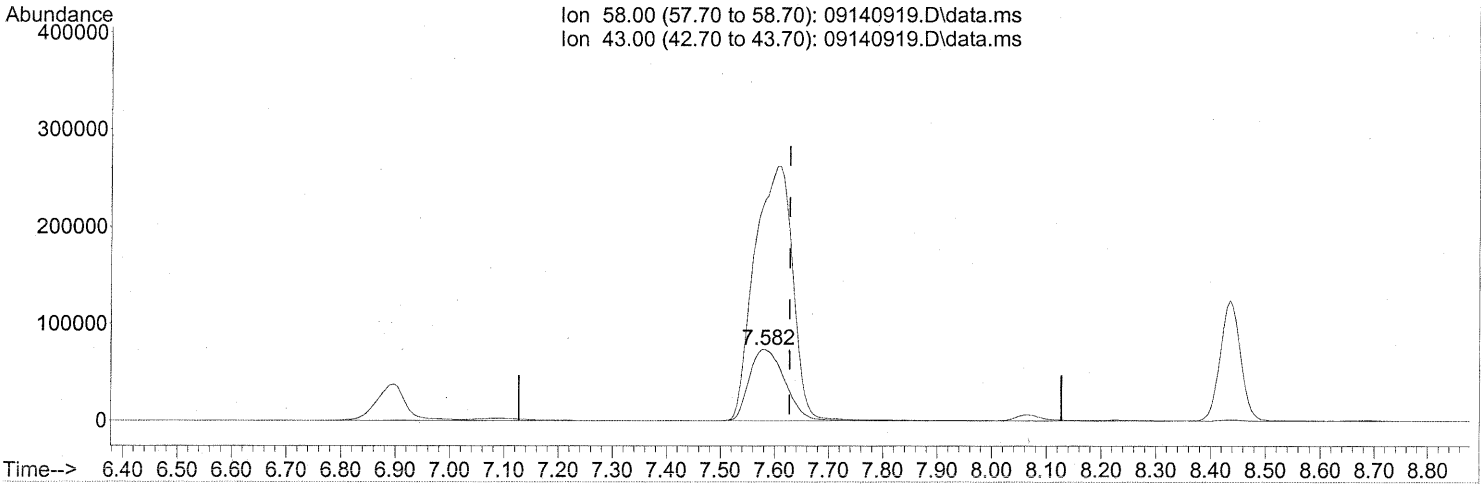
(12) Acrolein (T)
7.354min (-0.040) 2.76ng
response 16812

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	70.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(13) Acetone (T)

7.582min (-0.045) 40.72ng

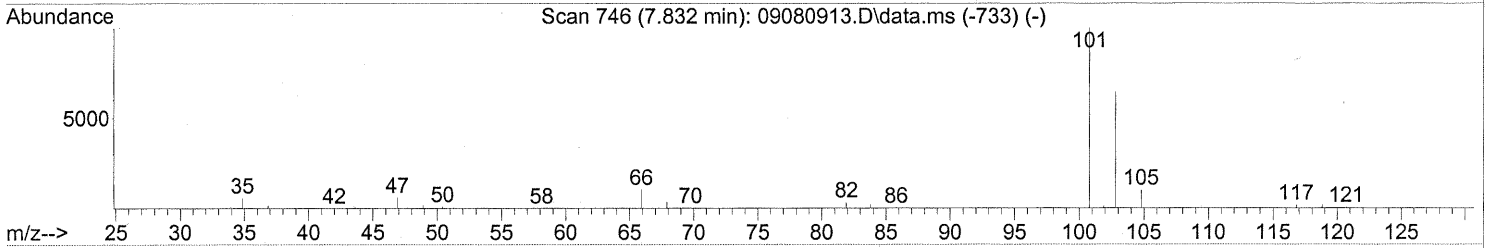
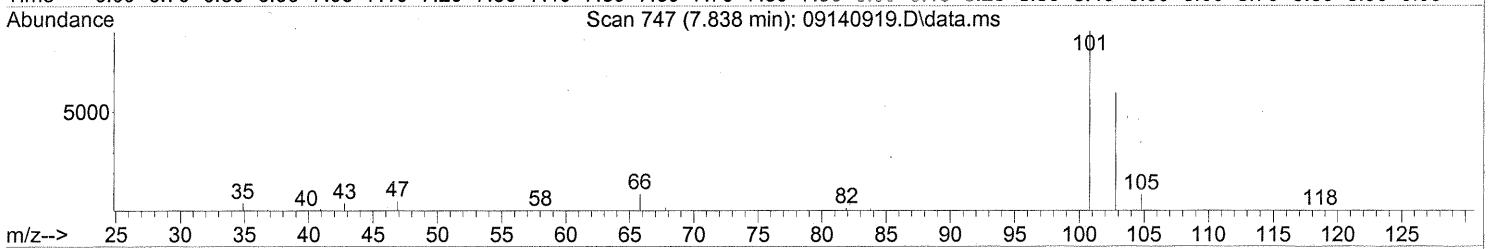
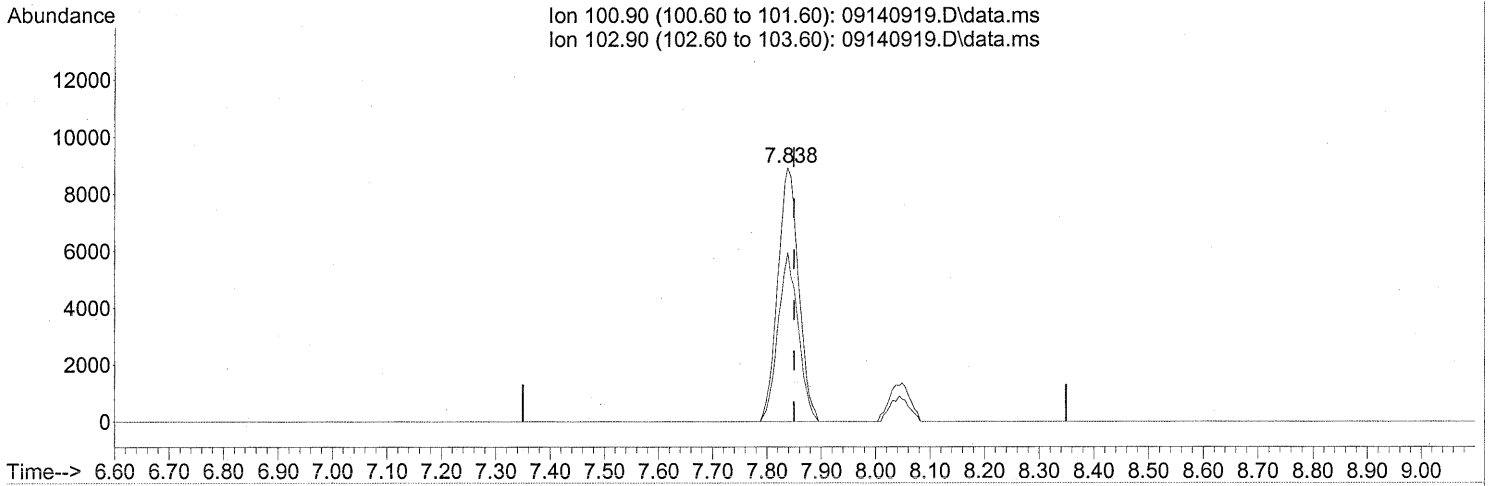
response 336261

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.19ng

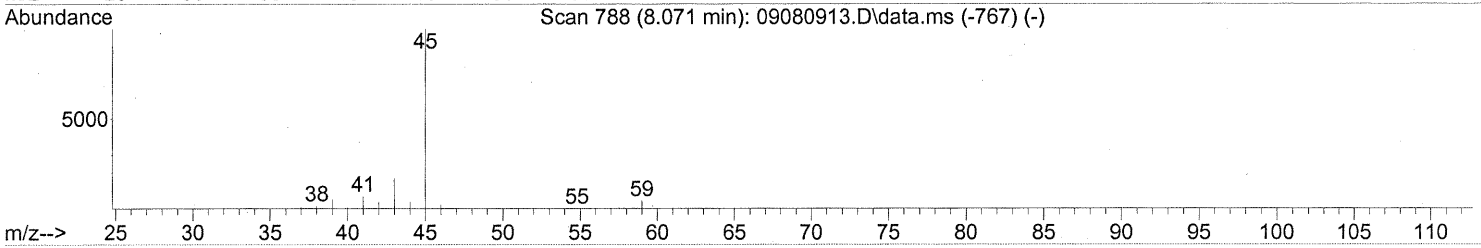
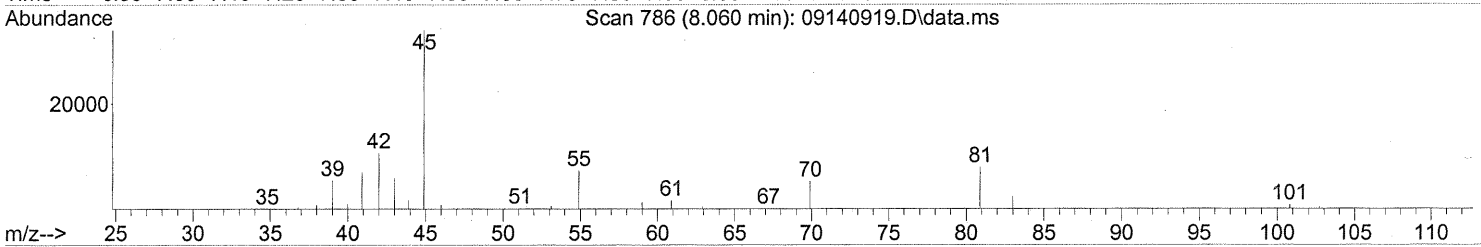
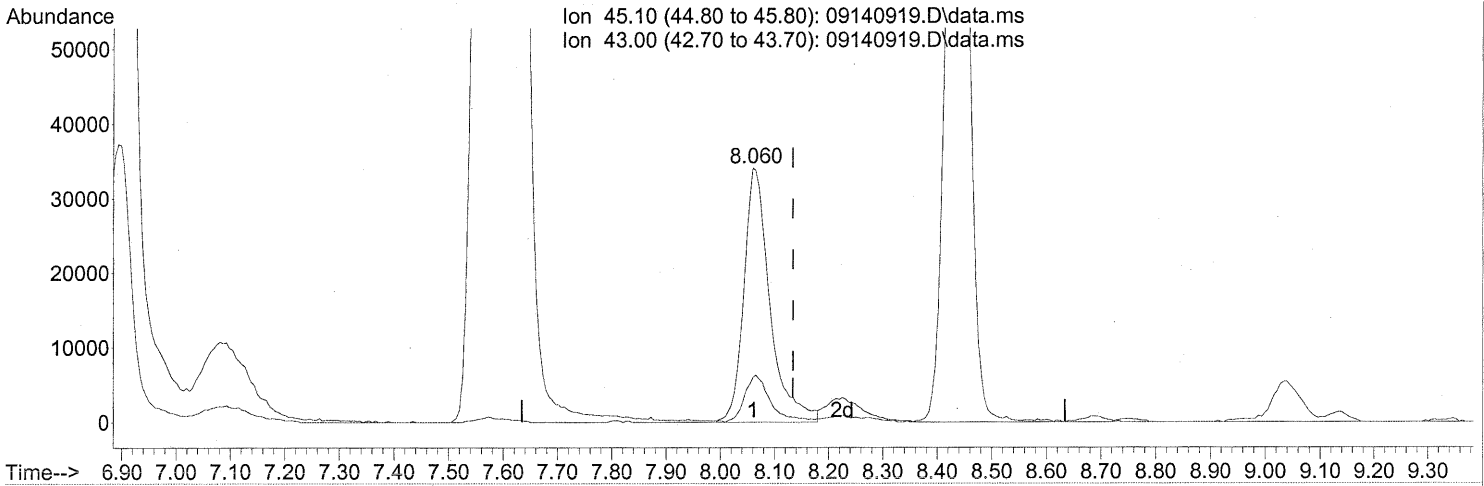
response 23857

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.00ng

response 113793

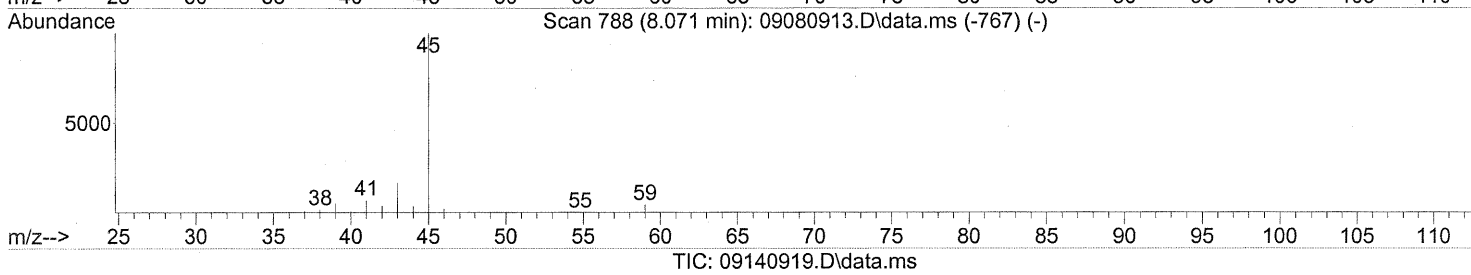
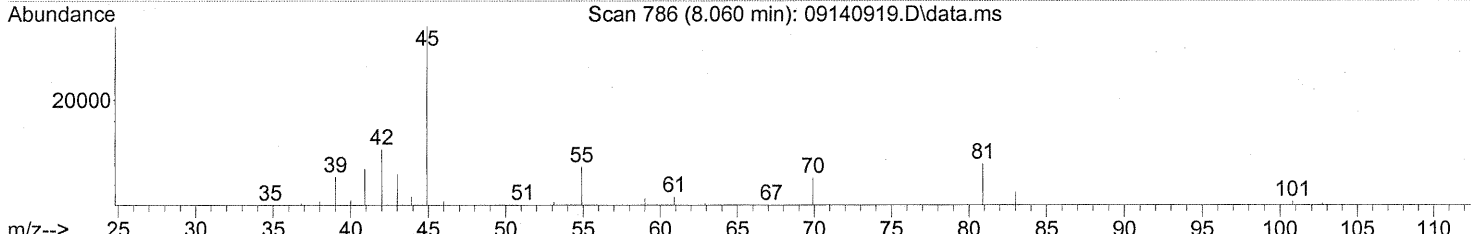
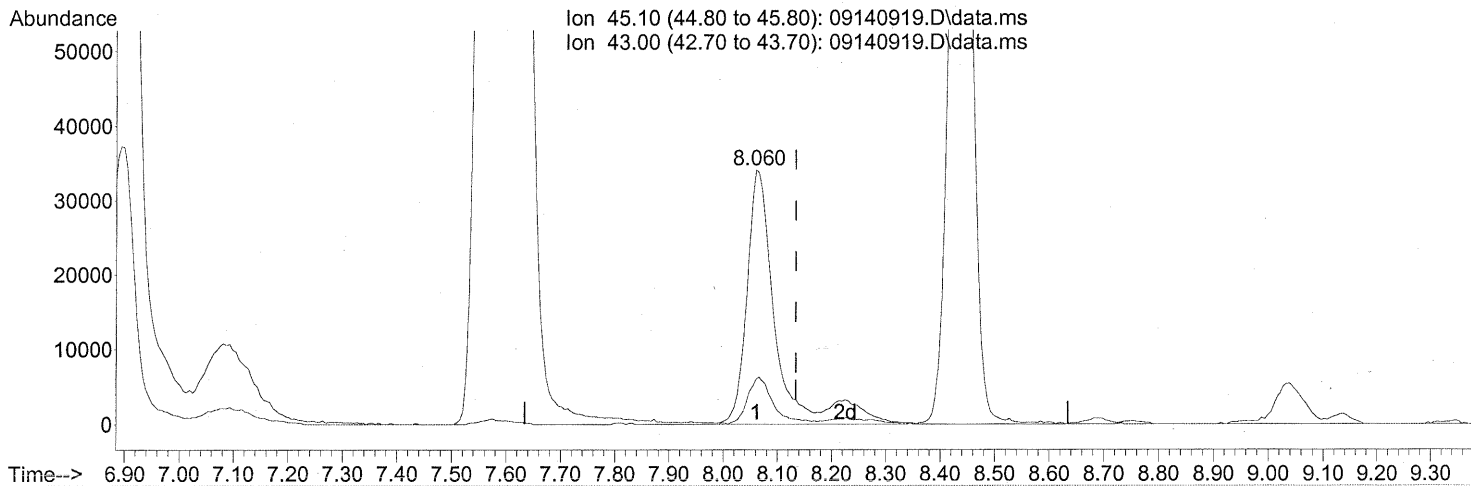
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	18.44
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.060min (-0.074) 4.53ng m

M

response 128843

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.29
0.00	0.00	0.00
0.00	0.00	0.00

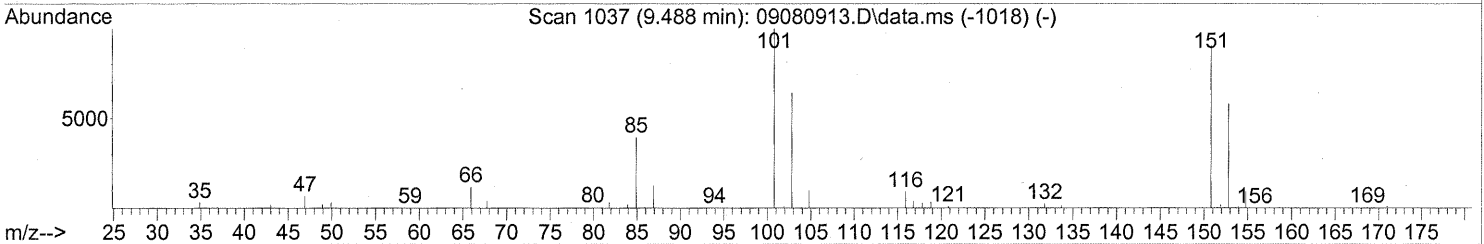
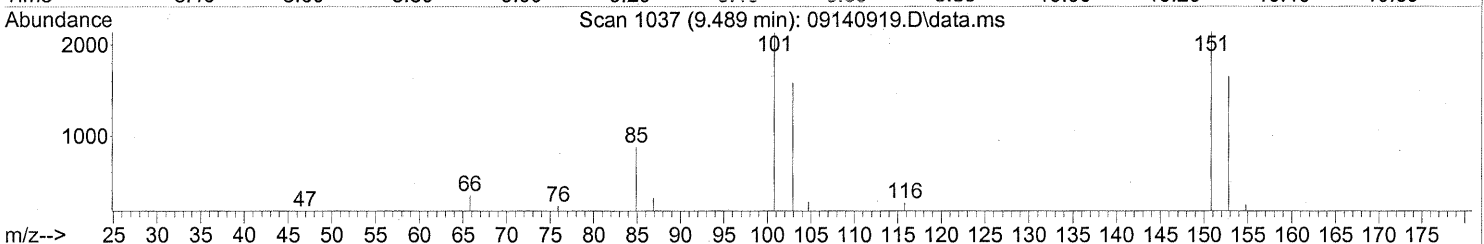
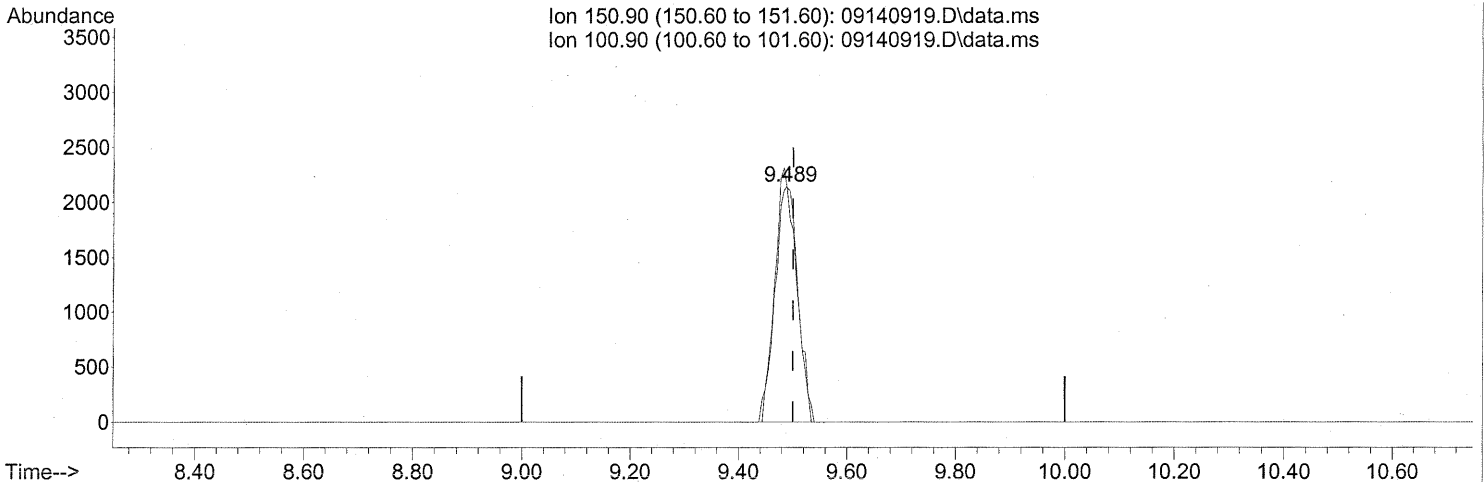
PT → IC
 LH 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.489min (-0.011) 0.61ng

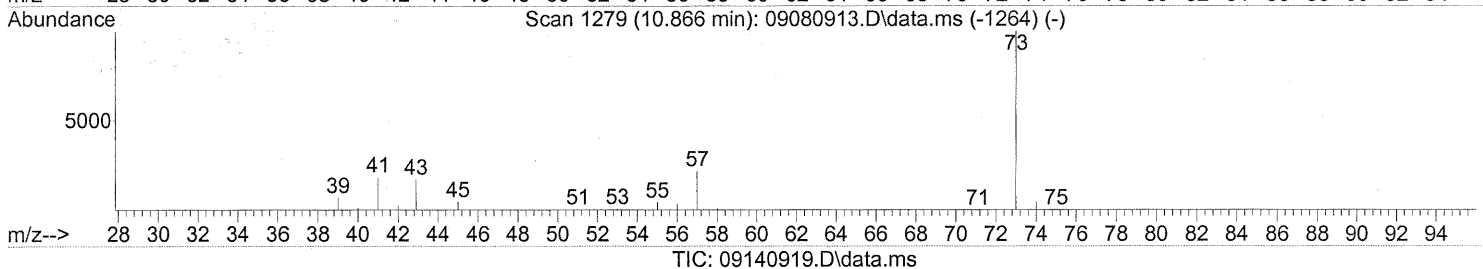
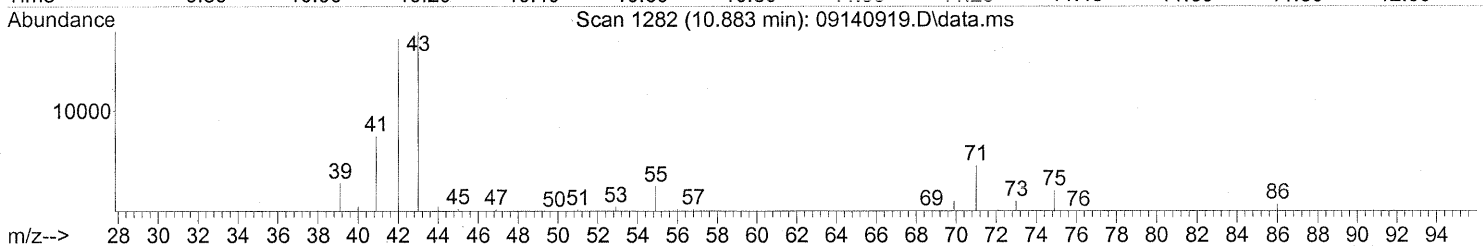
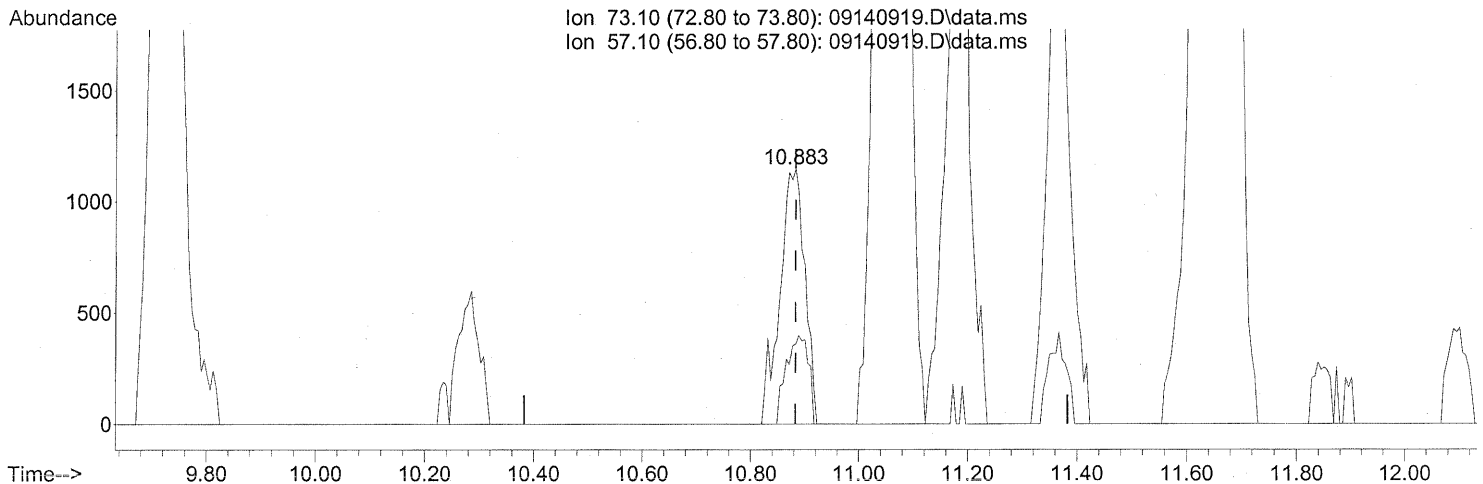
response 6024

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	109.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.883min (+0.000) 0.12ng

response 3670

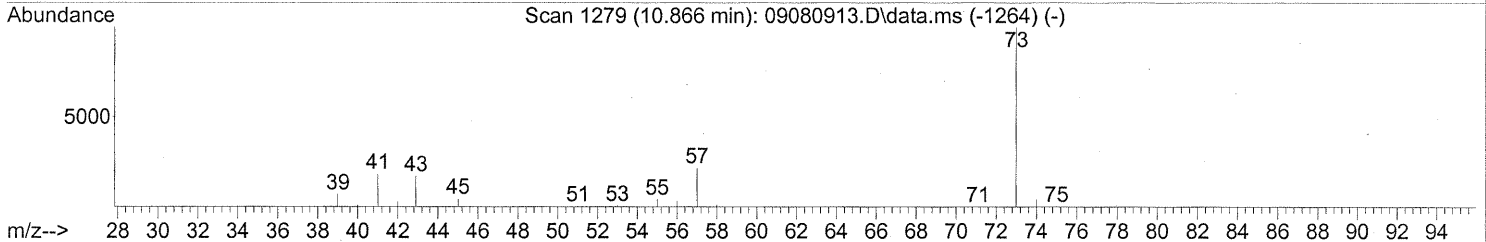
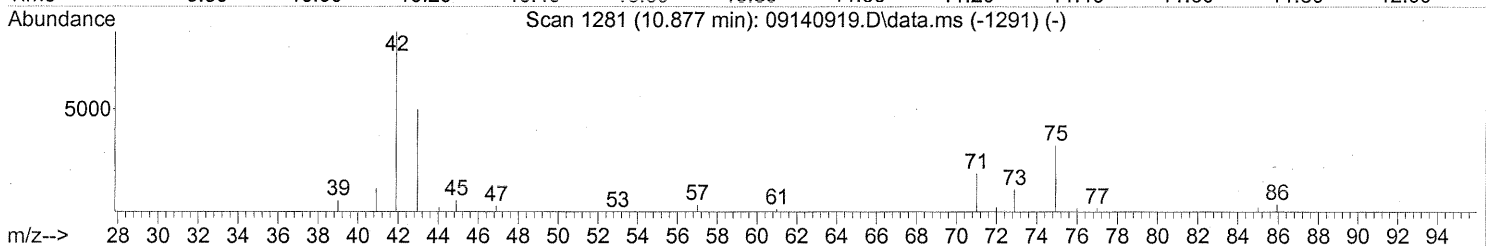
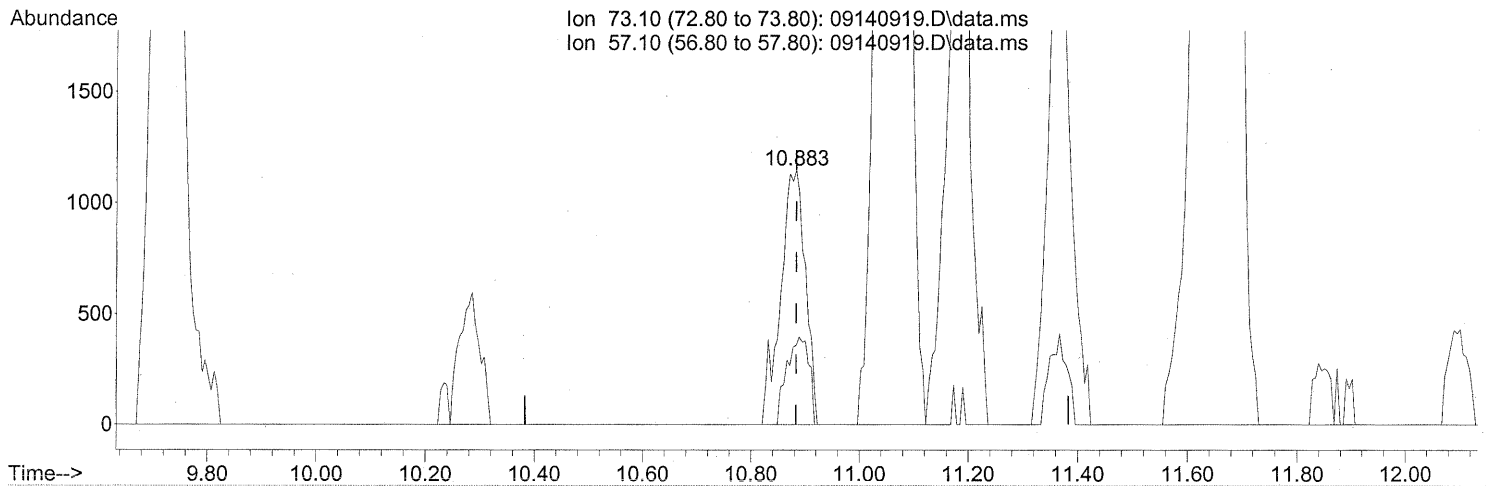
Ion	Exp%	Act%
73.10	100	100
57.10	22.60	30.71
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(25) Methyl tert-Butyl Ether (T)

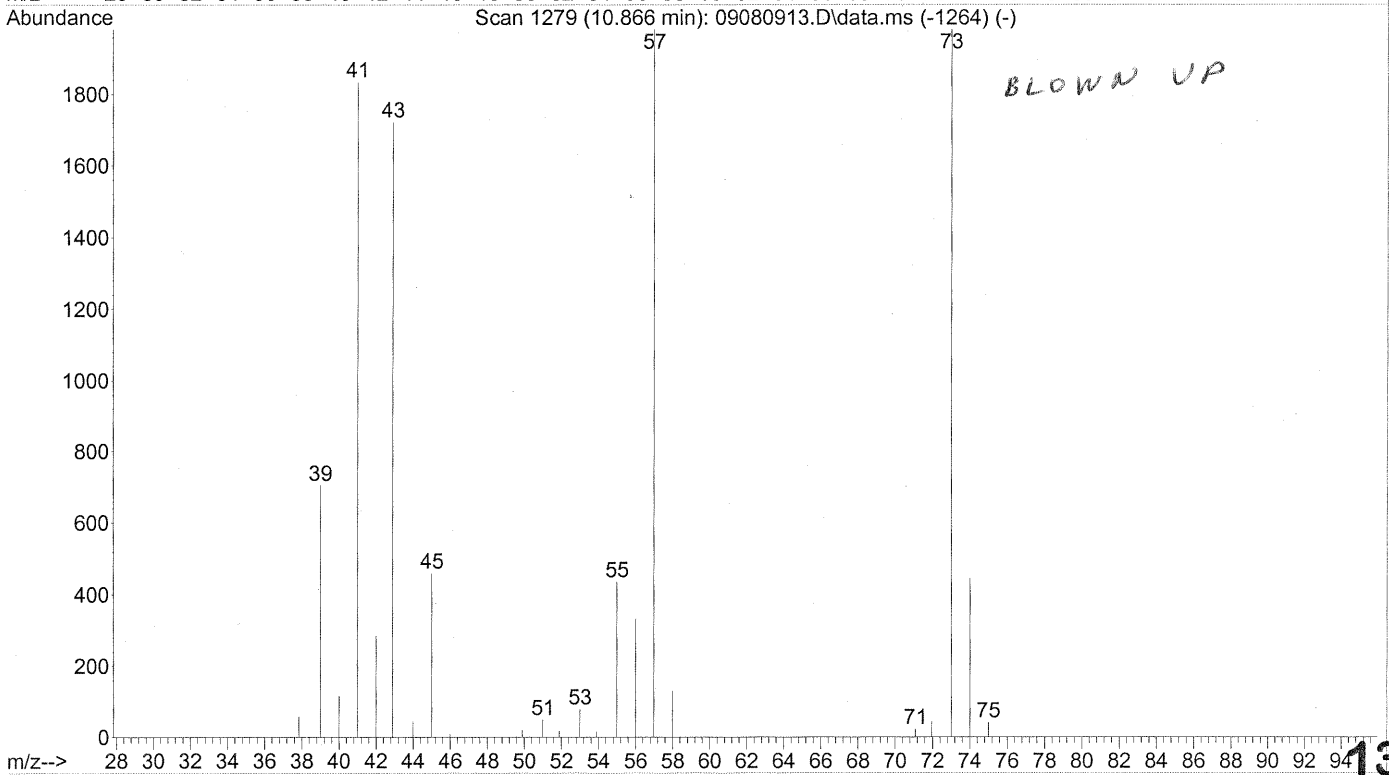
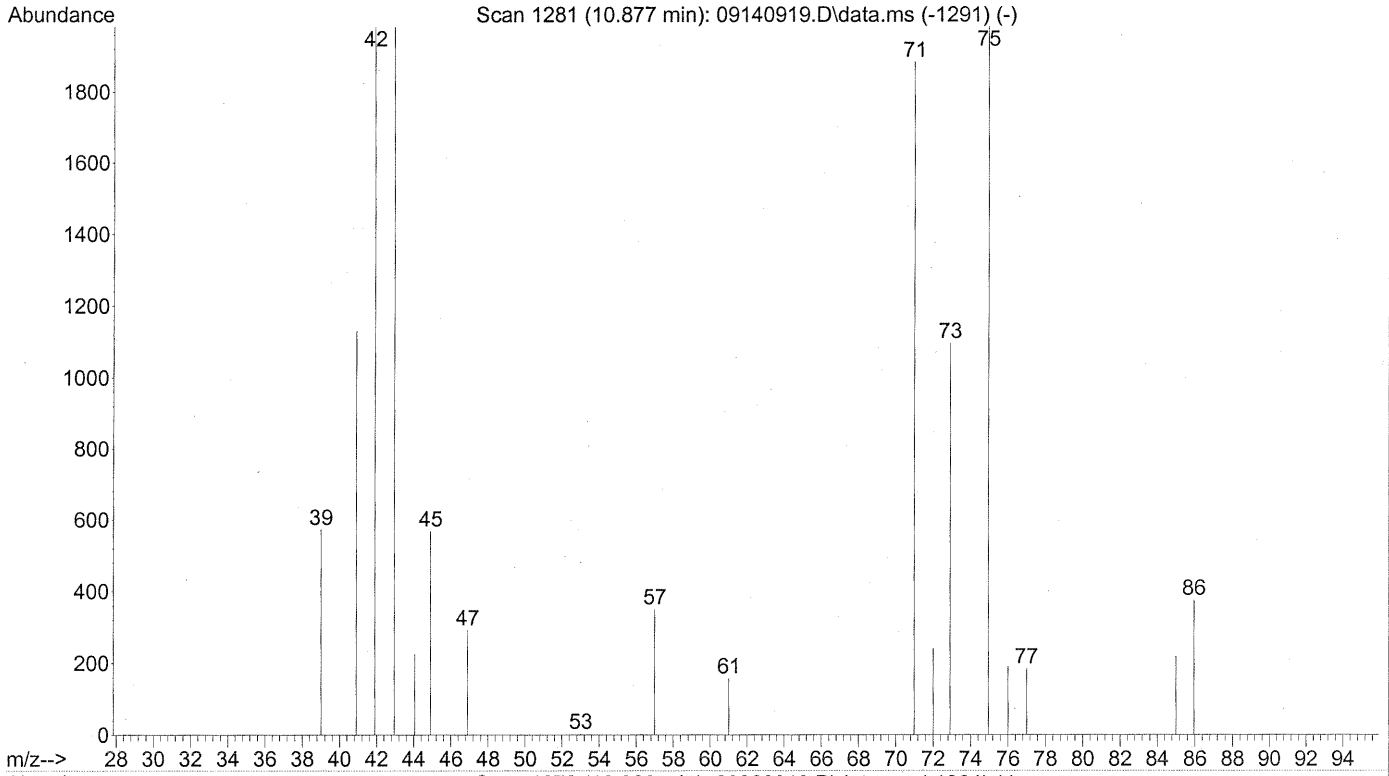
10.883min (+0.000) 0.12ng

response 3670

AFTER SUBTRACTION

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	30.71
0.00	0.00	0.00
0.00	0.00	0.00

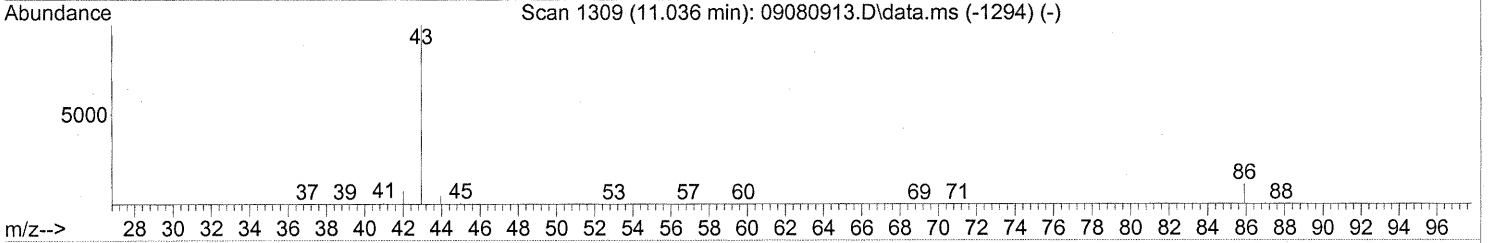
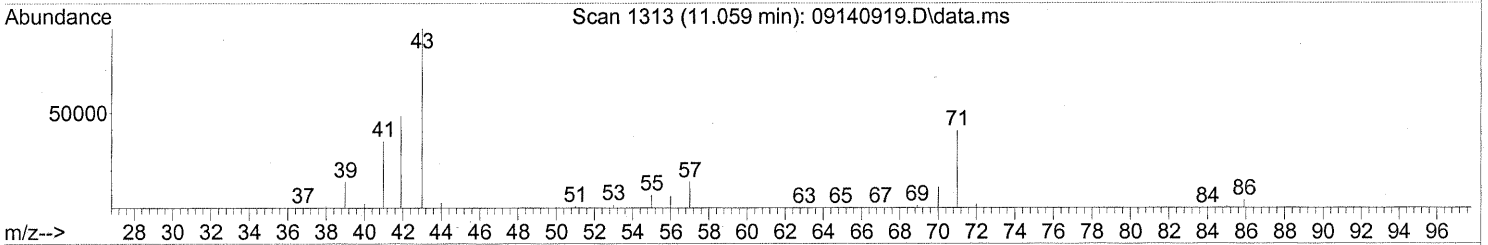
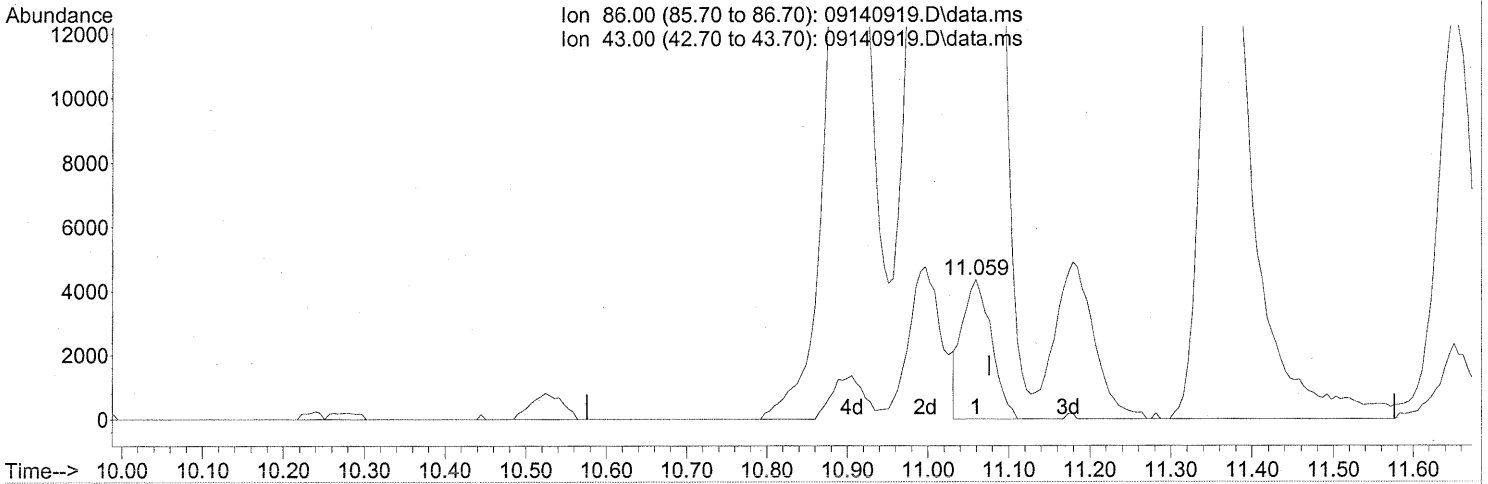
File :J:\MS16\DATA\2009_09\14\09140919.D
Operator : LH
Acquired : 14 Sep 2009 18:31 using AcqMethod TO15LT.M
Instrument : GCMS-16
Sample Name: P0903145-003 (1000mL)
Misc Info : Environmental H & E 102650
Vial Number: 9



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.059min (-0.017) 4.44ng
 response 11049

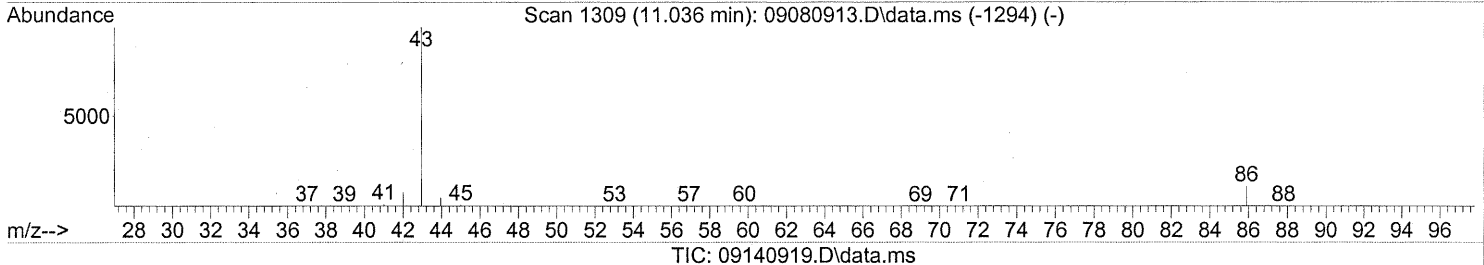
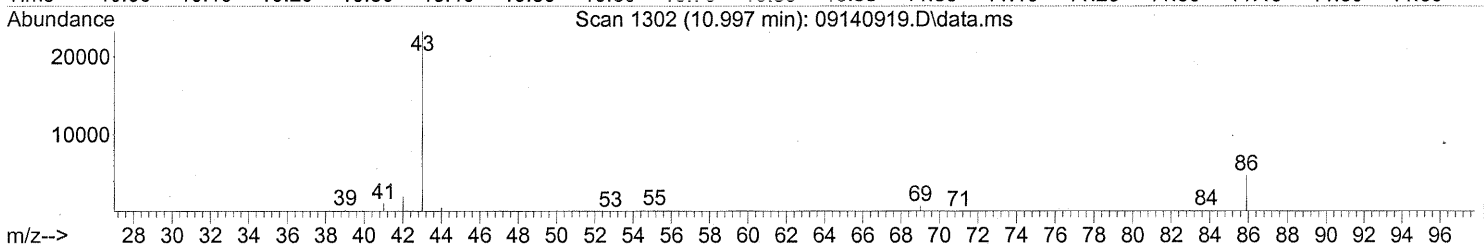
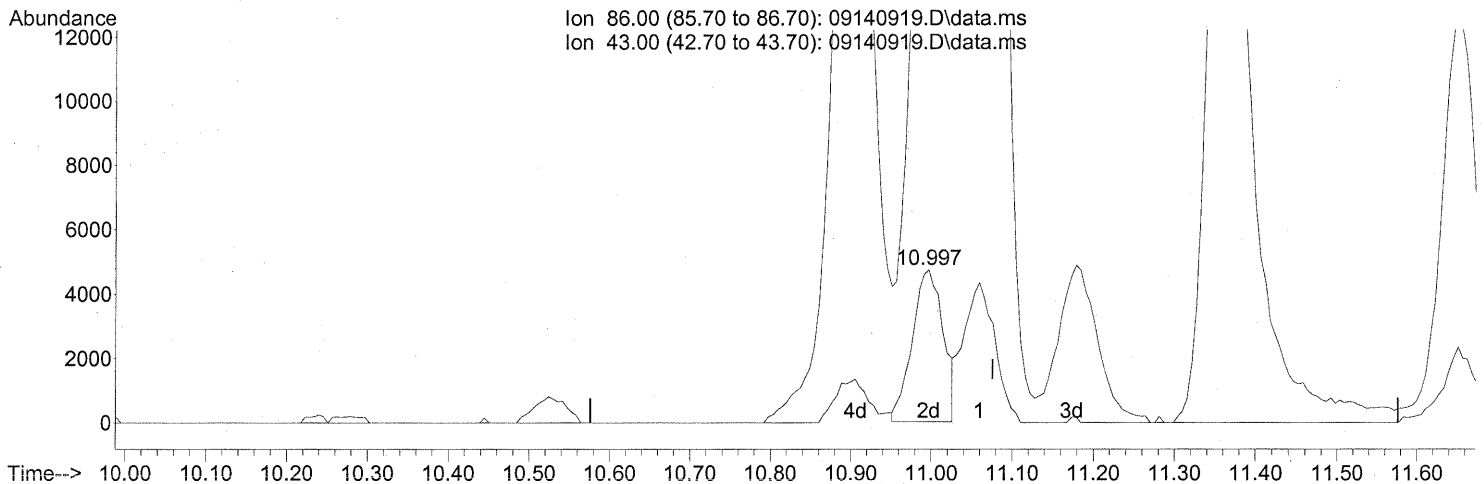
Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2400.38#
0.00	0.00	0.00
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

10.997min (-0.079) 5.05ng m

response 12568

Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2110.26#
0.00	0.00	0.00
0.00	0.00	0.00

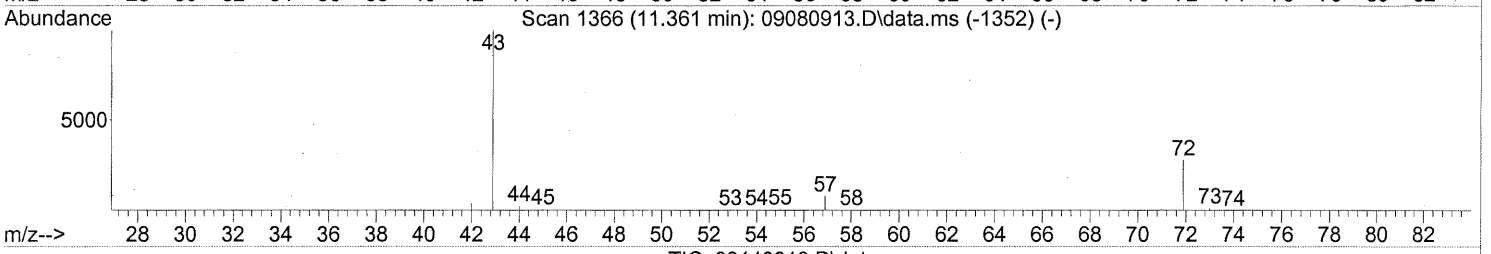
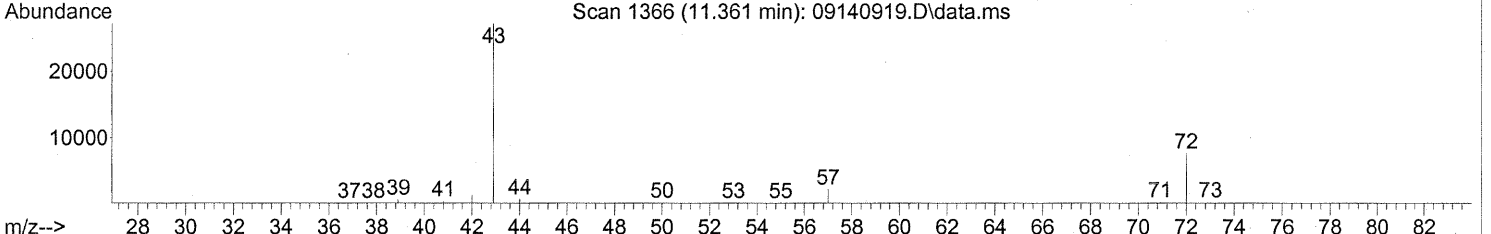
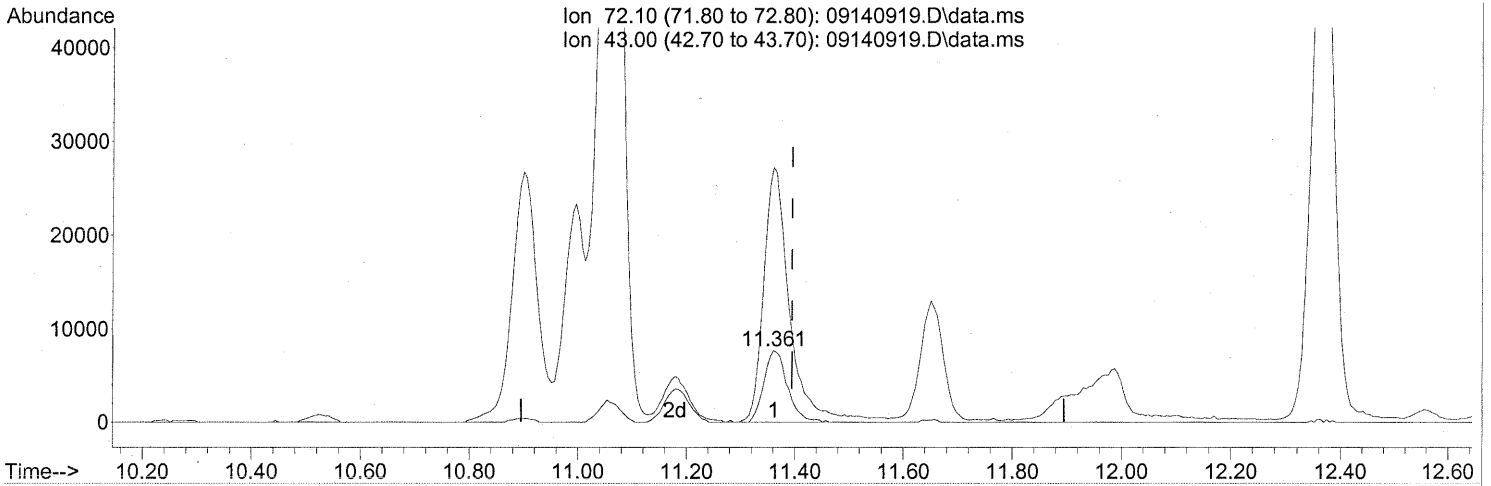
*MP → IC
 in 9/18/09*

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



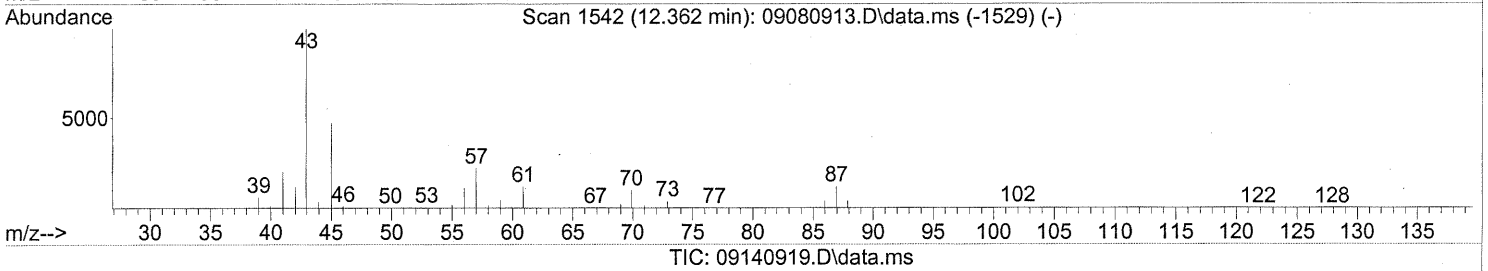
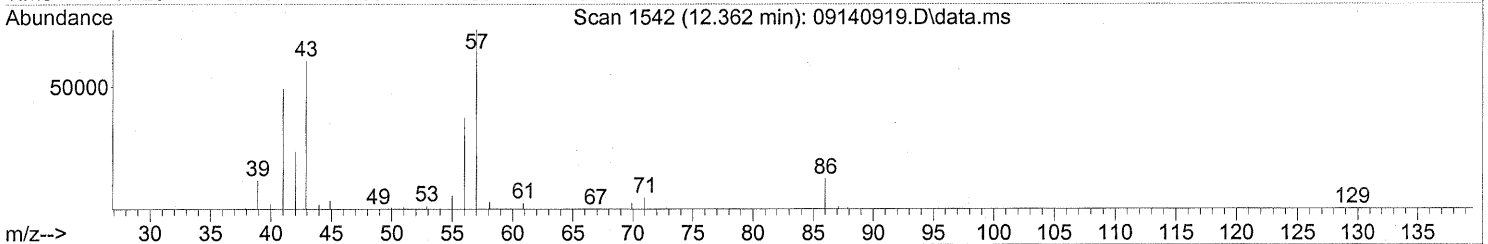
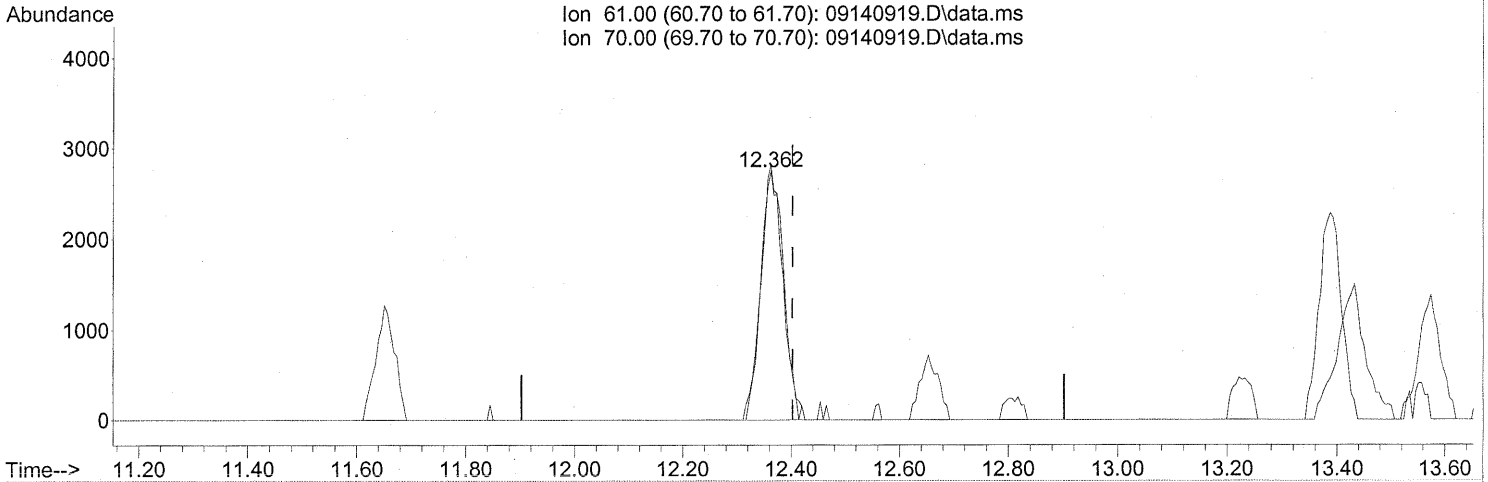
(27) 2-Butanone (MEK) (T)
 11.361min (-0.034) 2.91ng
 response 23086

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	395.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



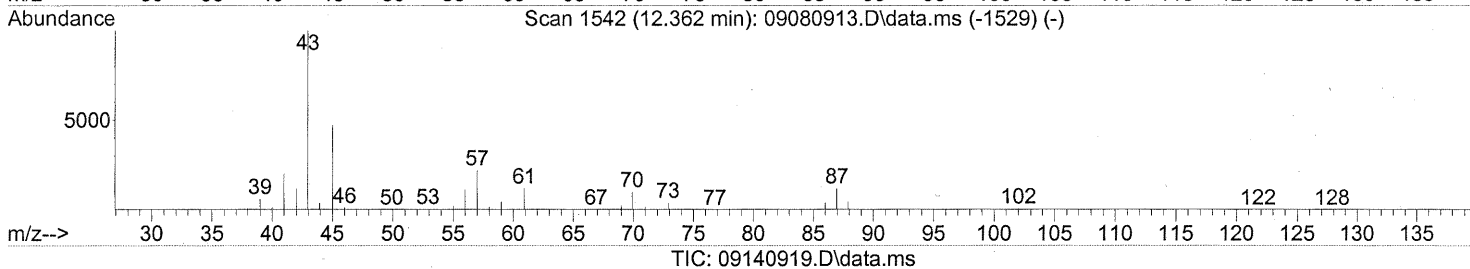
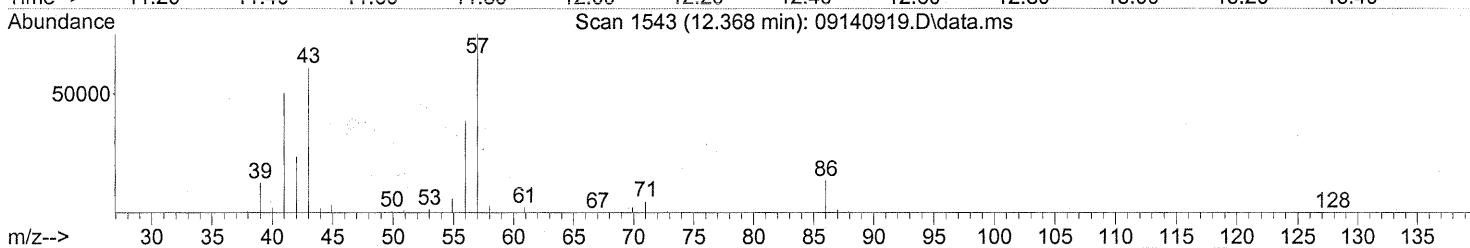
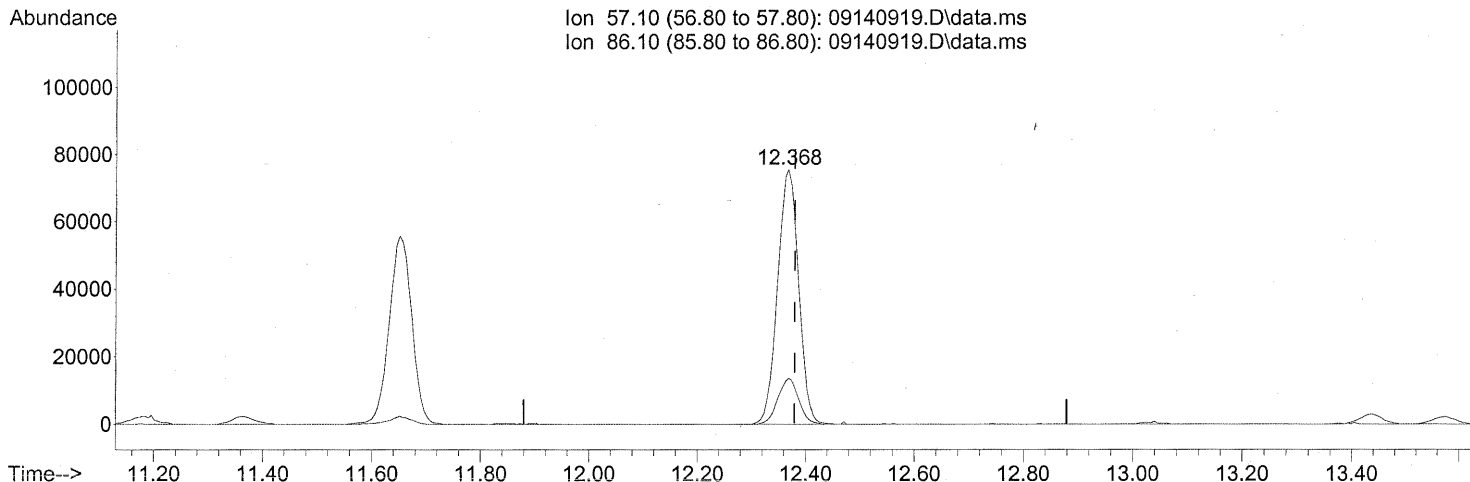
(30) Ethyl Acetate (T)
 12.362min (-0.040) 1.93ng
 response 7768

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	105.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

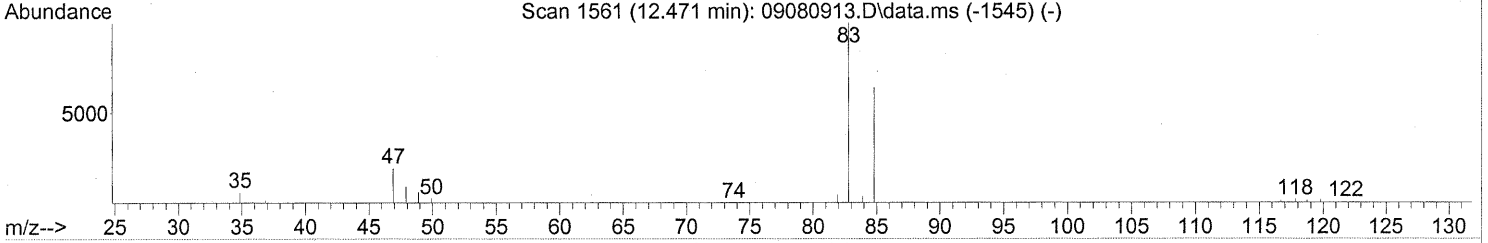
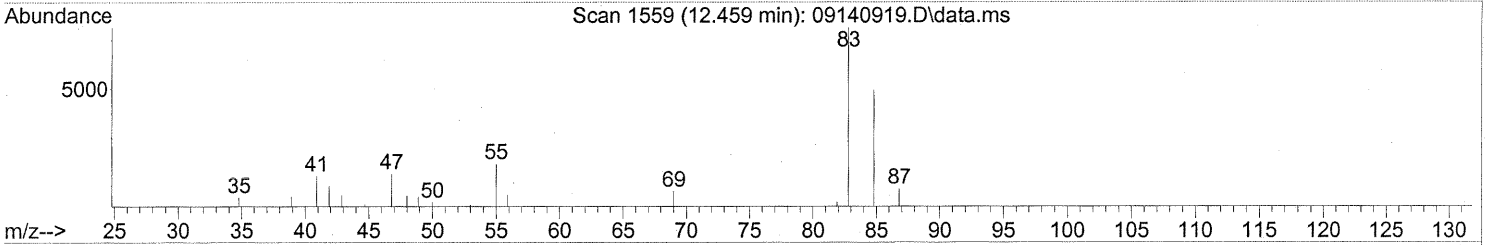
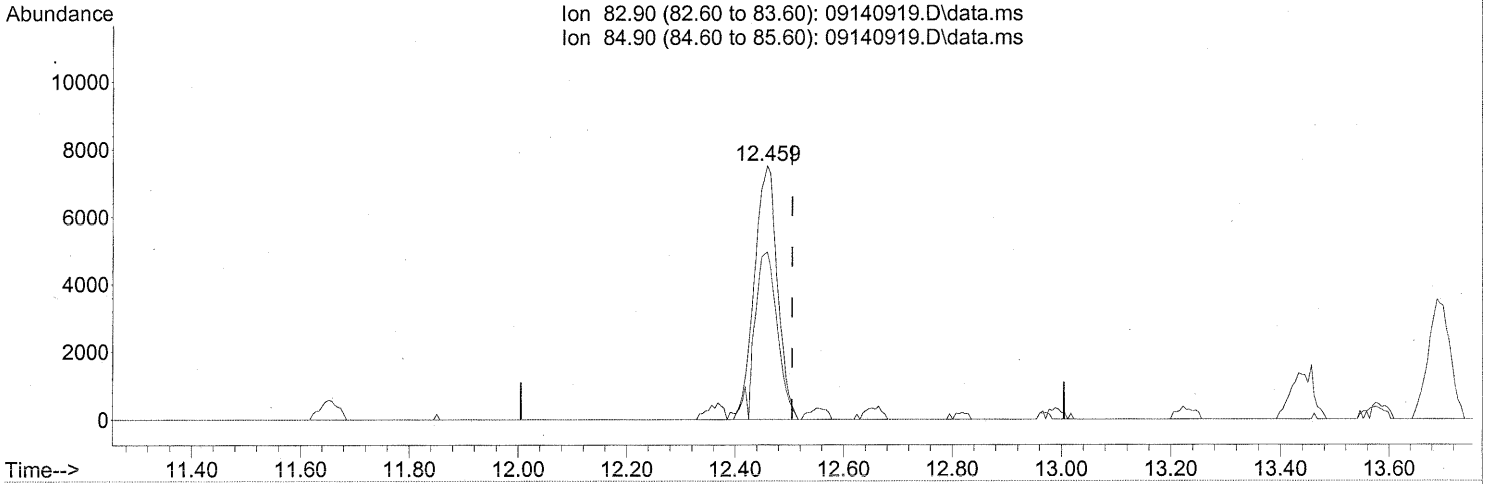
12.368min (-0.011) 12.71ng
 response 202770

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	17.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.459min (-0.045) 1.14ng

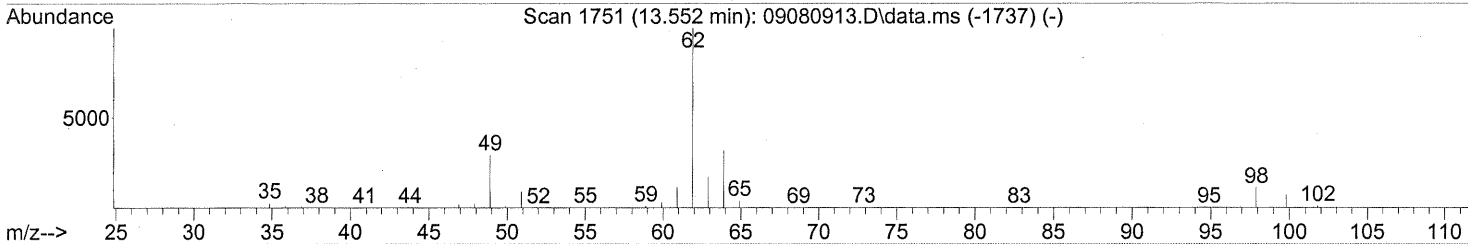
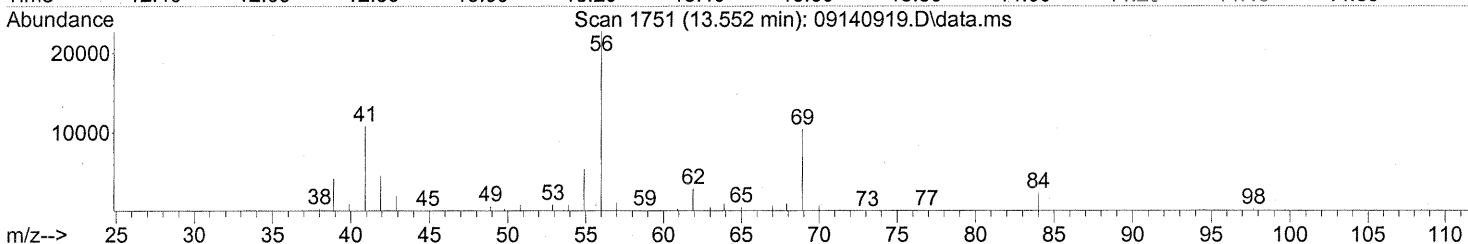
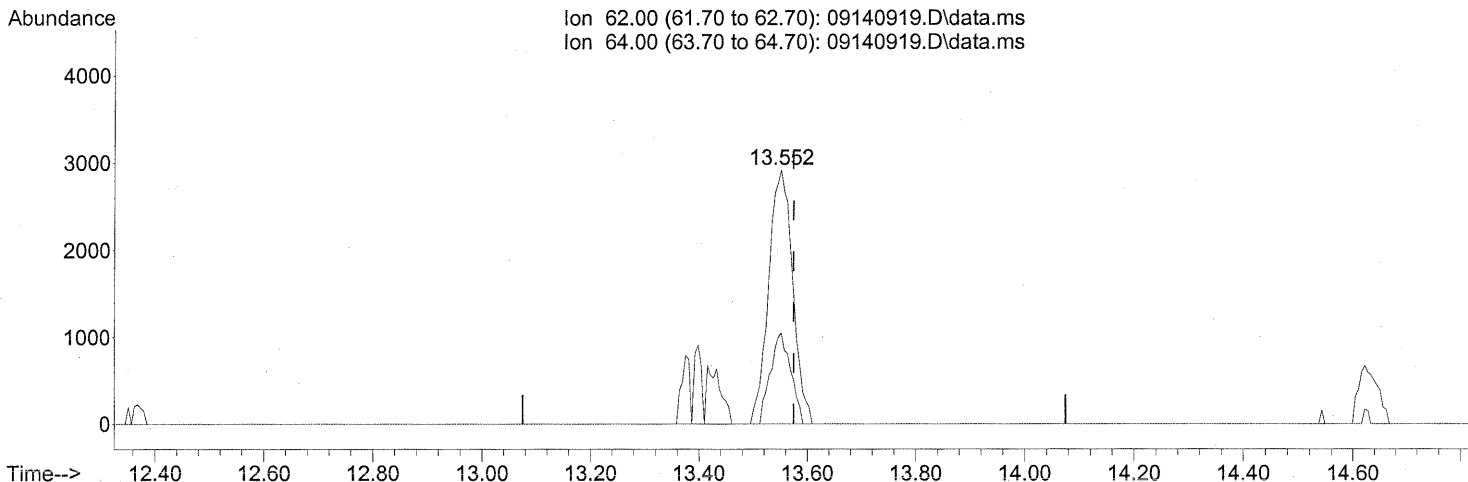
response 22258

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 0.67ng

response 9001

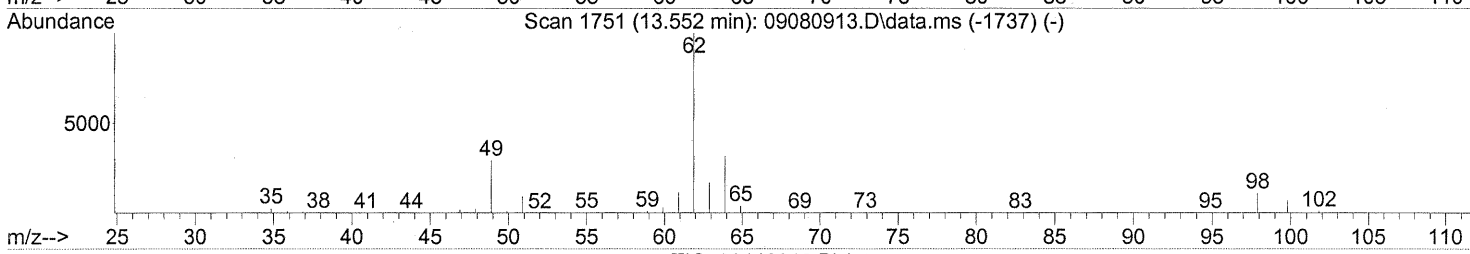
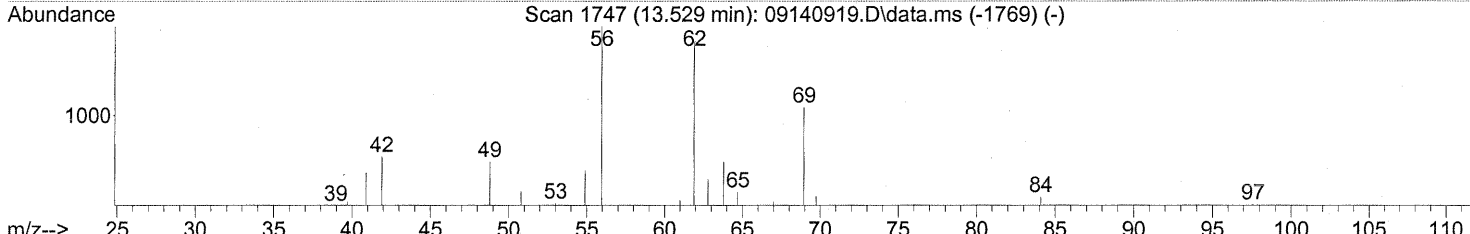
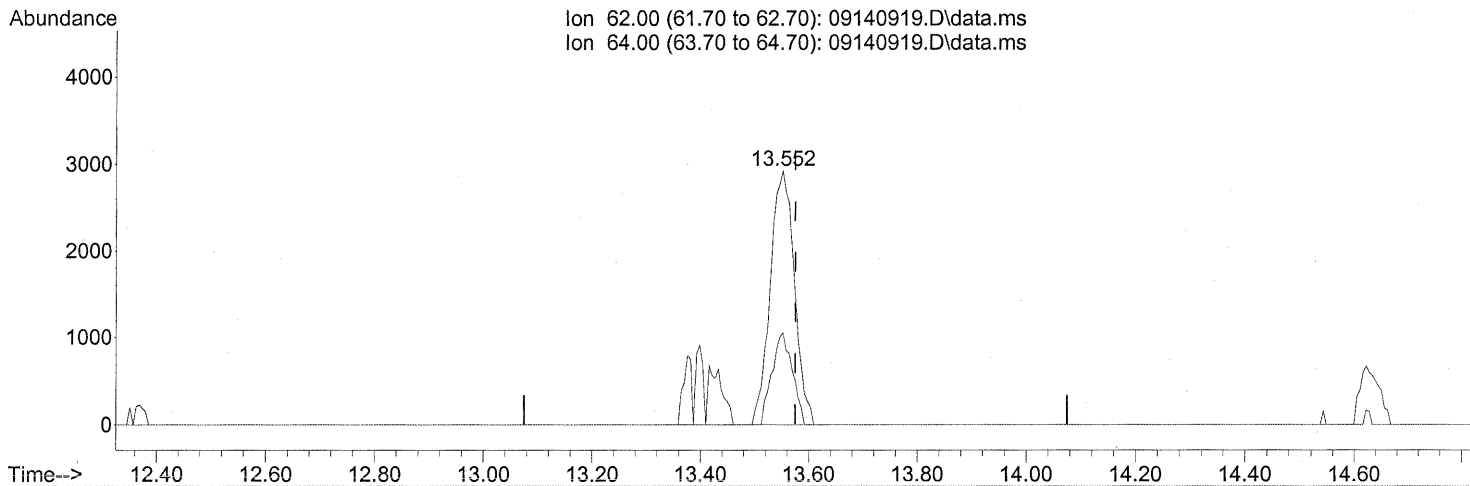
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	30.45
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 0.67ng

response 9001

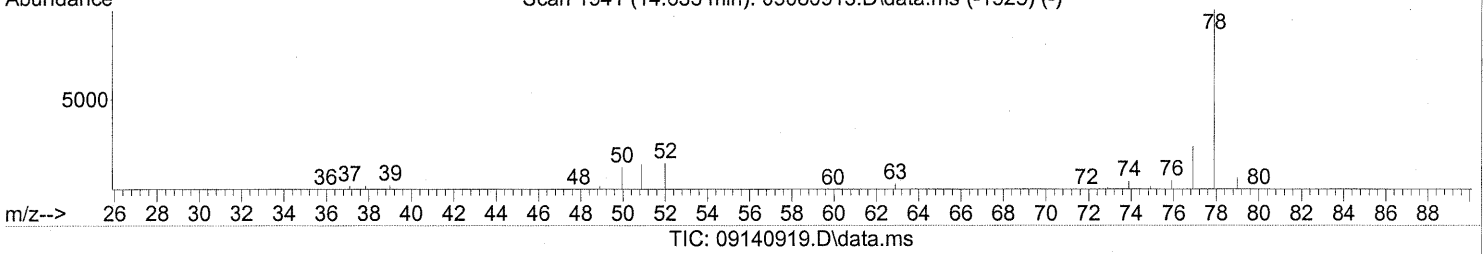
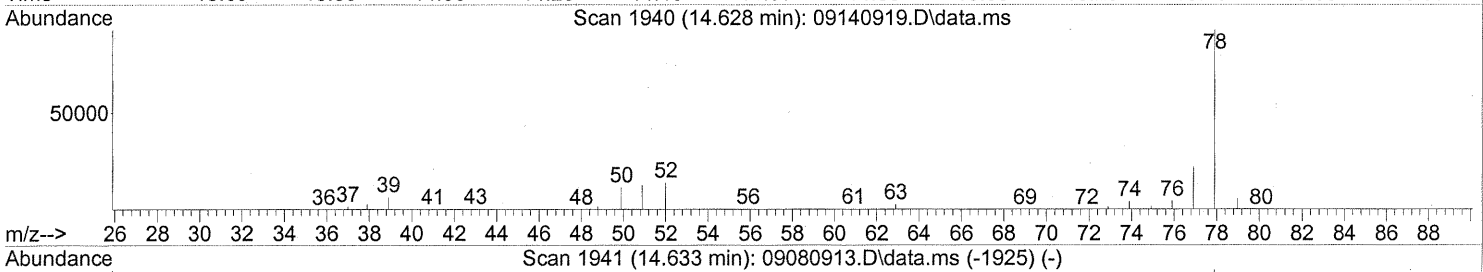
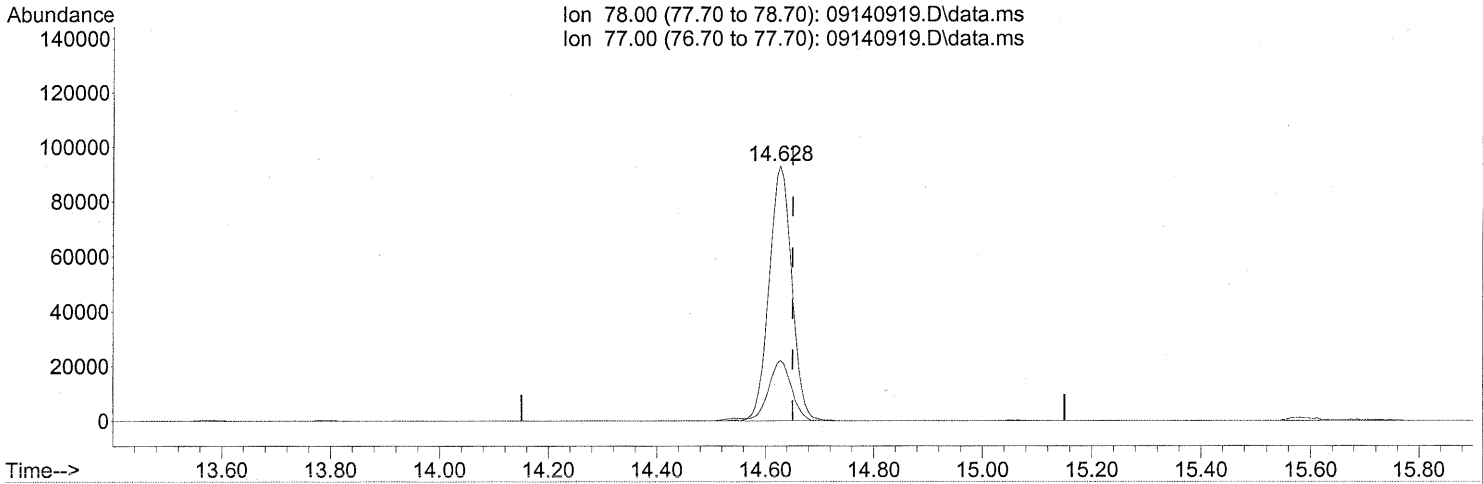
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	30.45
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140919.D
Acq On : 14 Sep 2009 18:31
Operator : LH
Sample : P0903145-003 (1000mL)
Misc : Environmental H & E 102650
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(41) Benzene (T)

14.628min (-0.023) 5.62ng

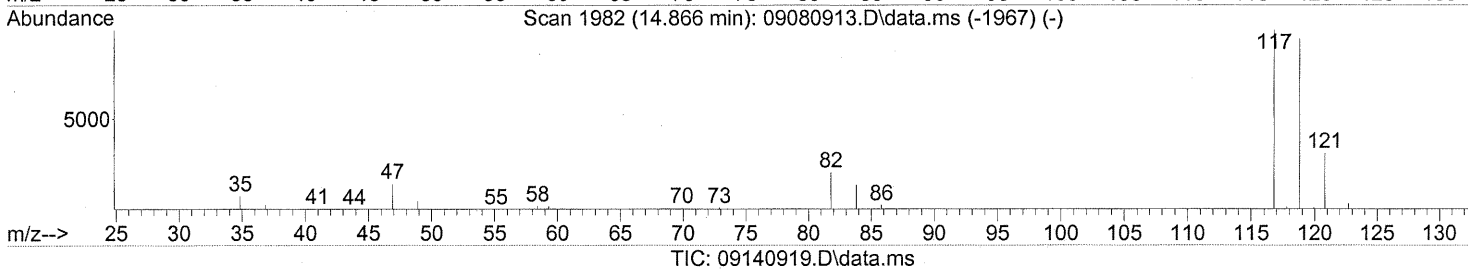
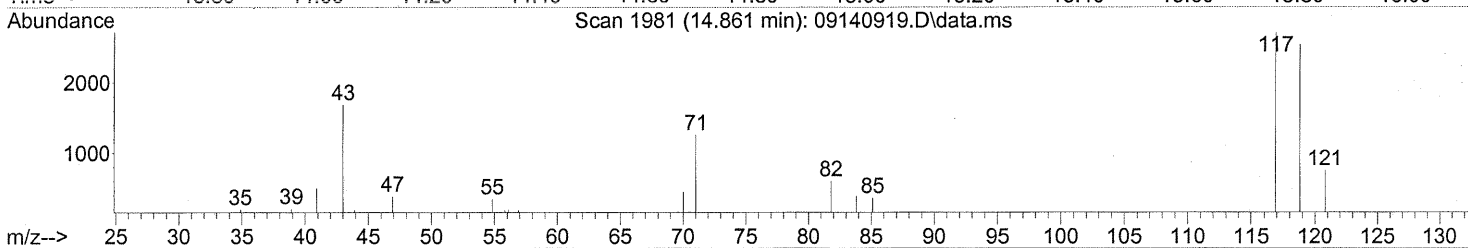
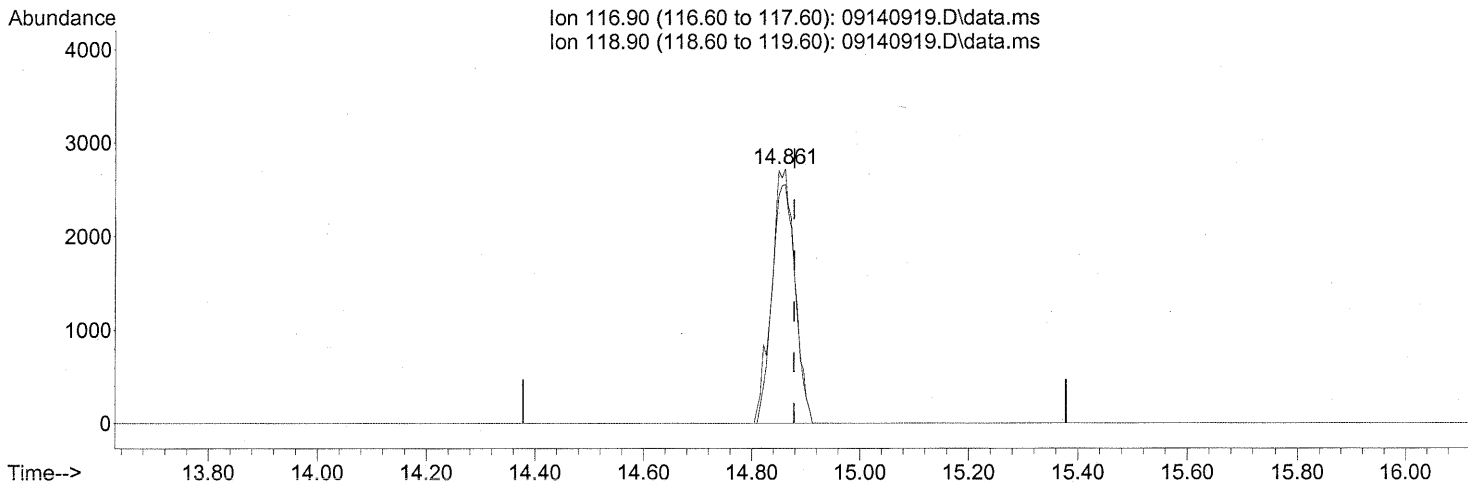
response 269947

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
Data File : 09140919.D
Acq On : 14 Sep 2009 18:31
Operator : LH
Sample : P0903145-003 (1000mL)
Misc : Environmental H & E 102650
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.56ng

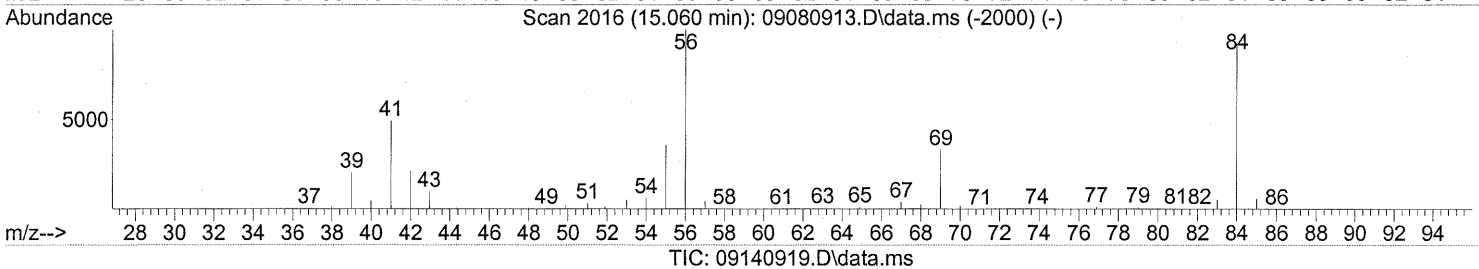
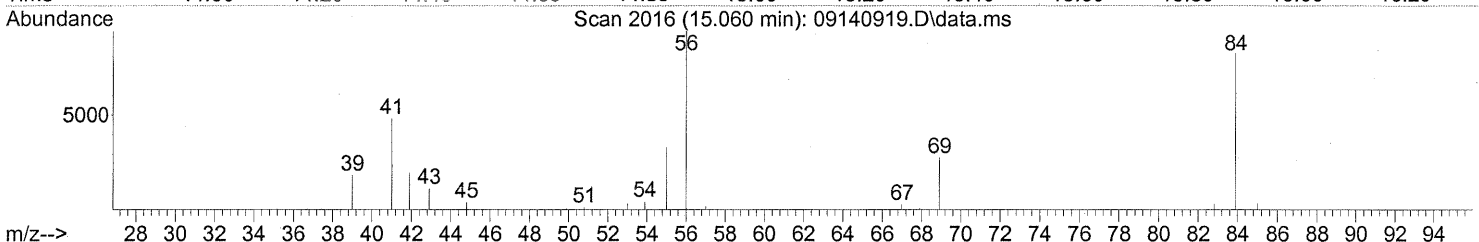
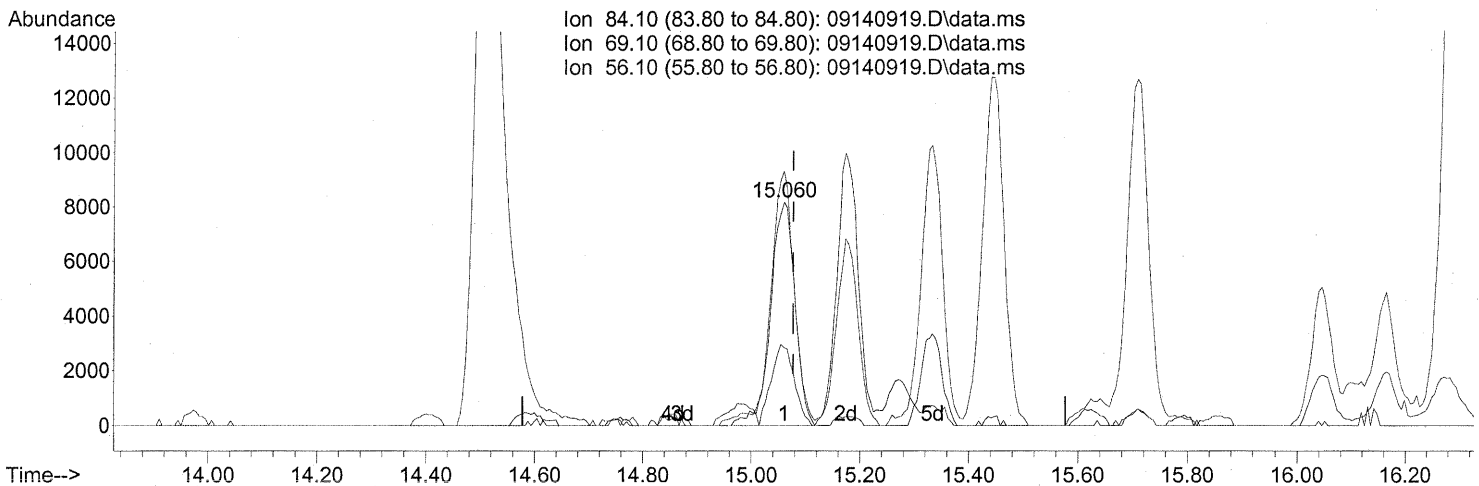
response 8083

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	93.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



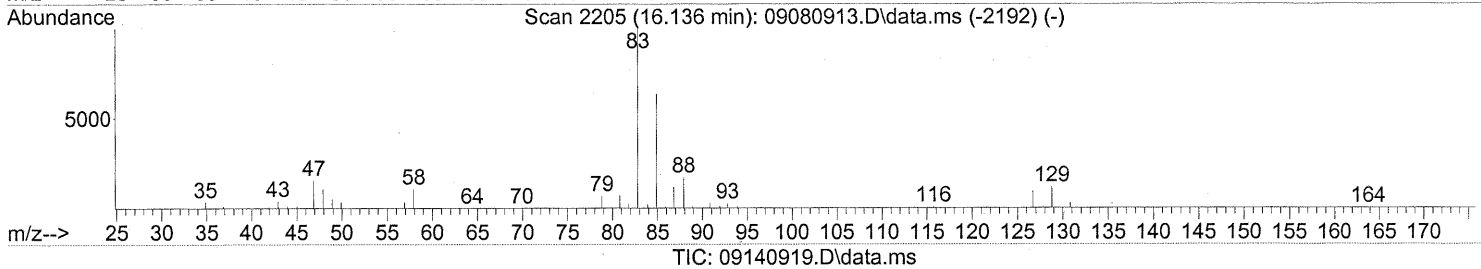
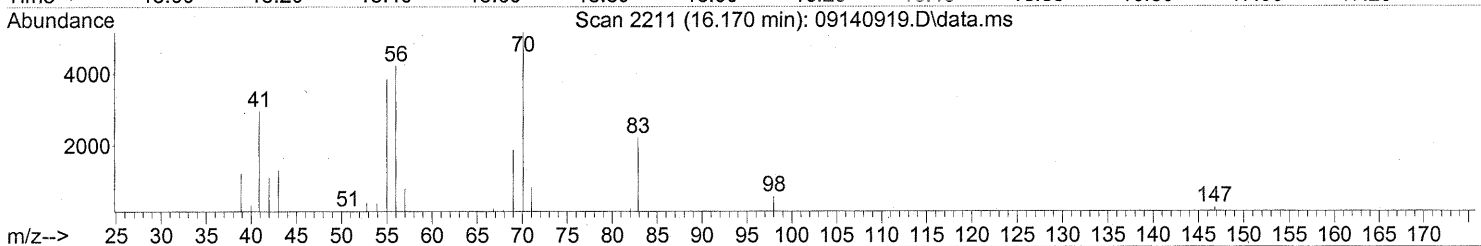
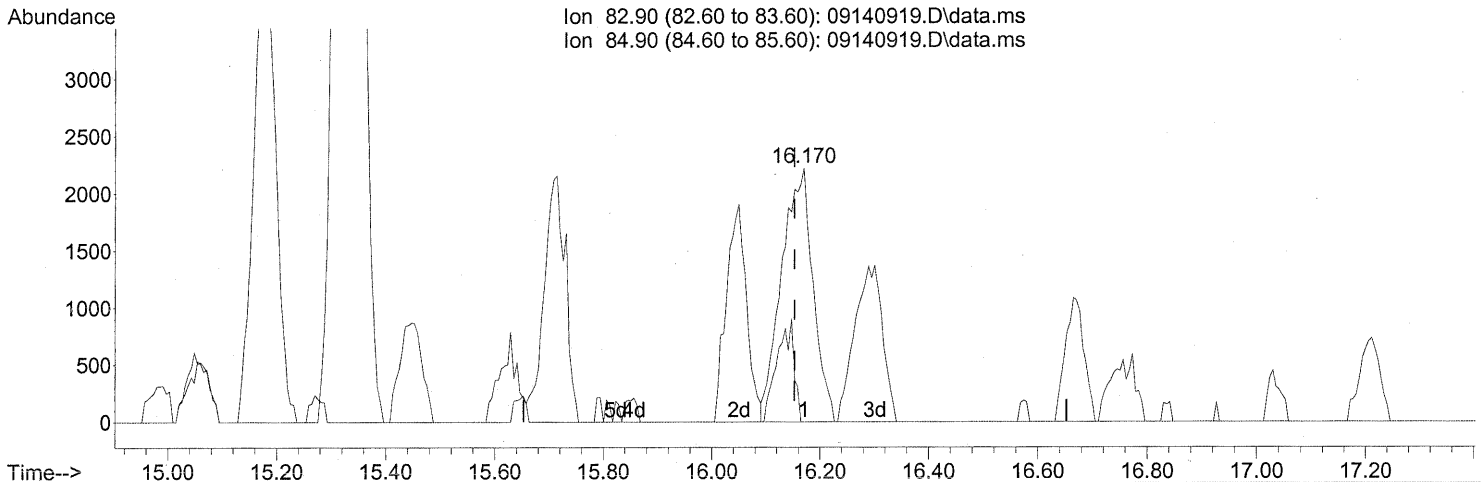
(43) Cyclohexane (T)
 15.060min (-0.017) 1.44ng
 response 25272

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	34.28
56.10	124.60	107.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.170min (+0.017) 0.60ng

response 8948

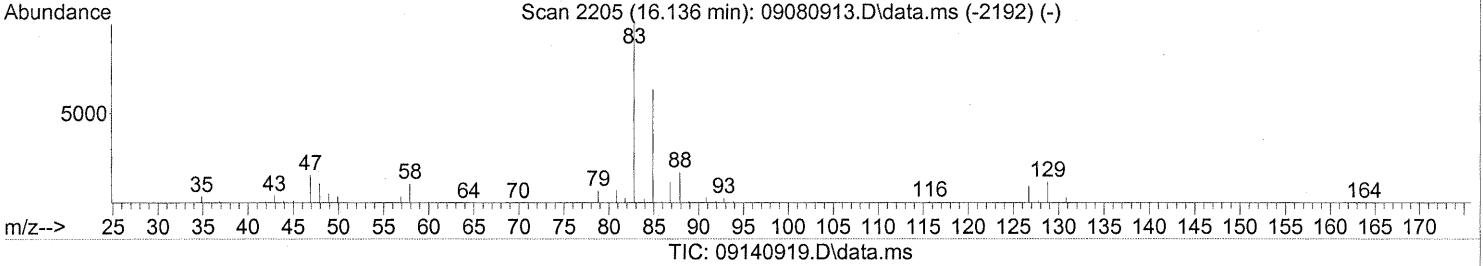
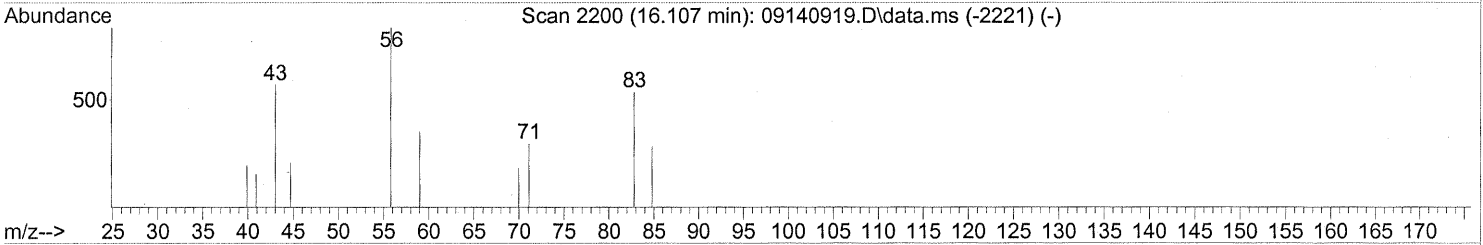
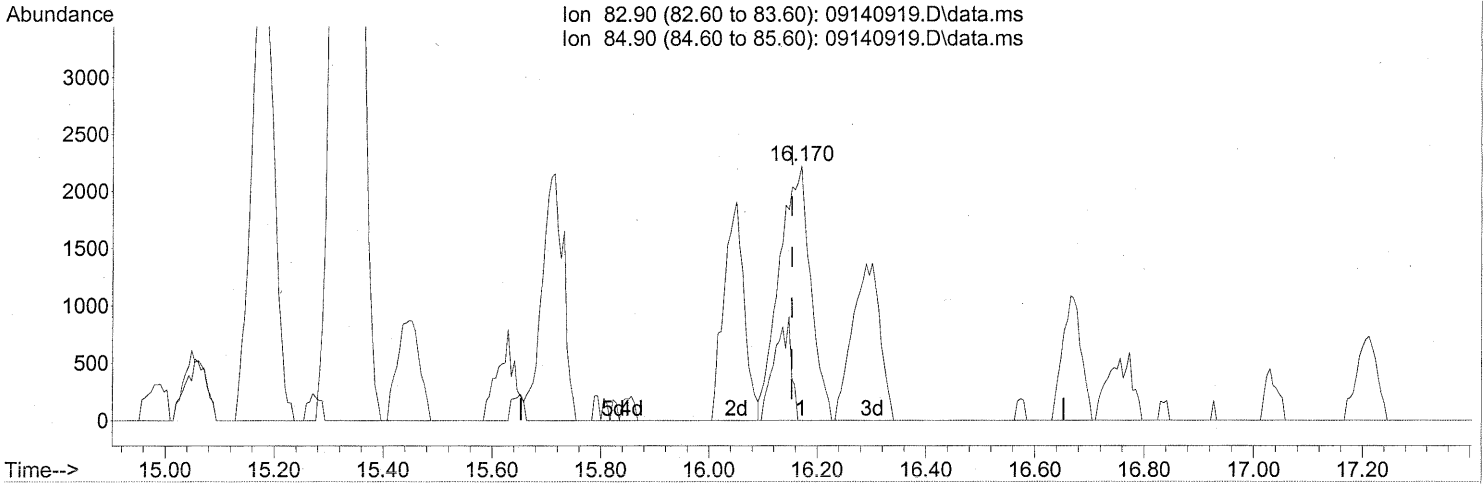
Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.170min (+0.017) 0.60ng

response 8948

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

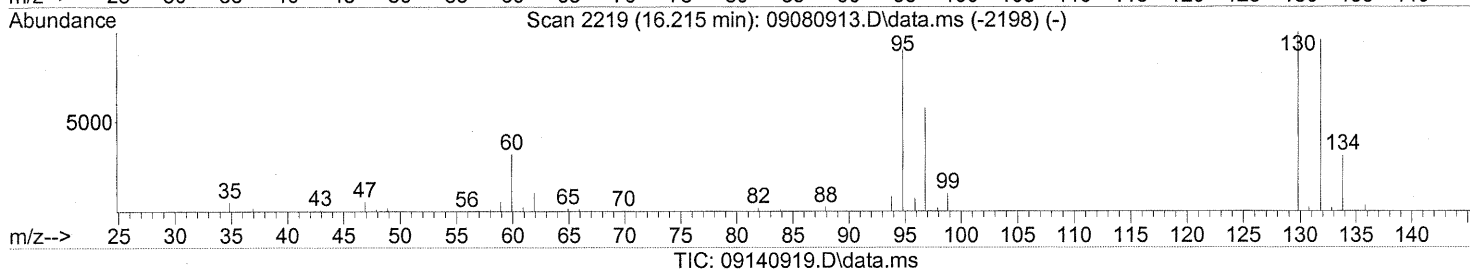
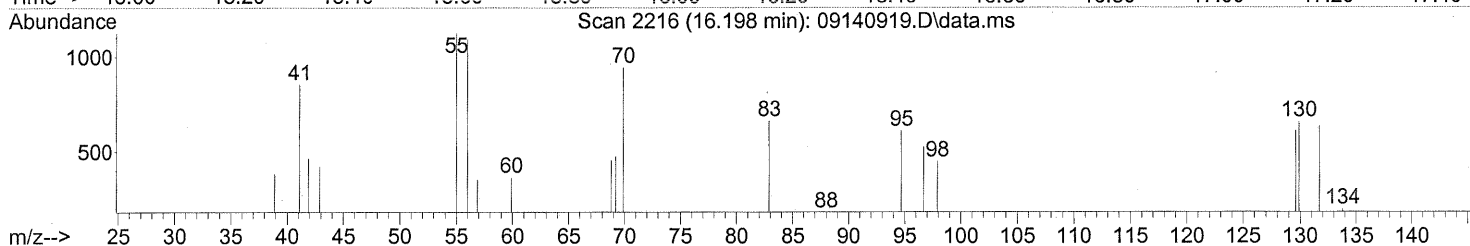
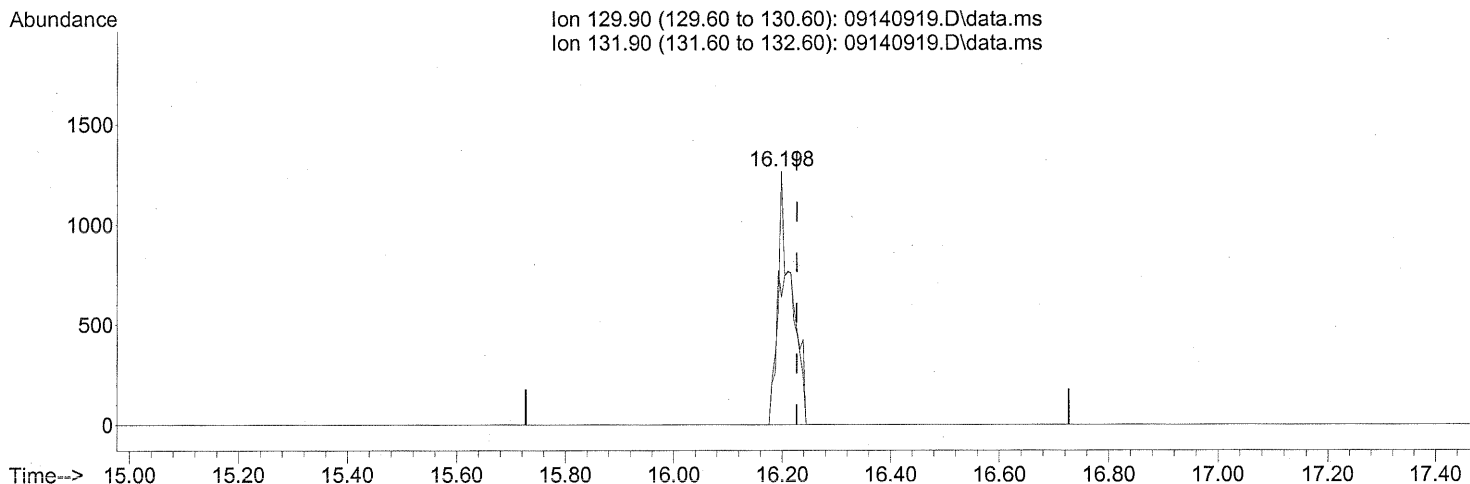
M

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.198min (-0.028) 0.15ng

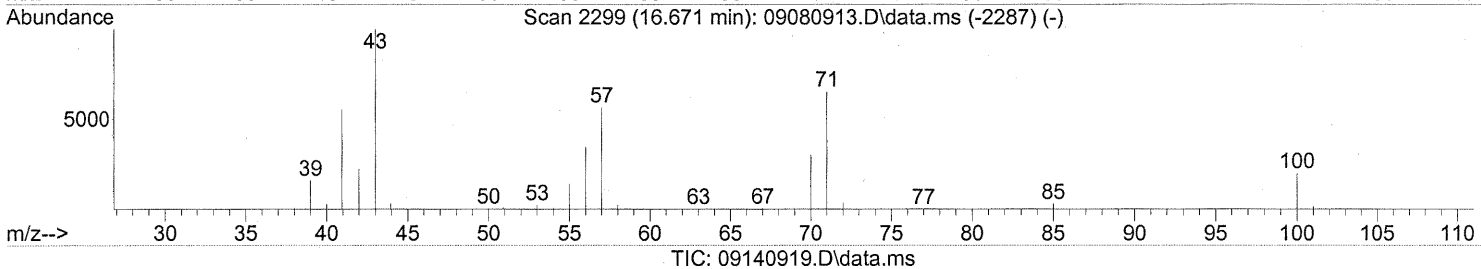
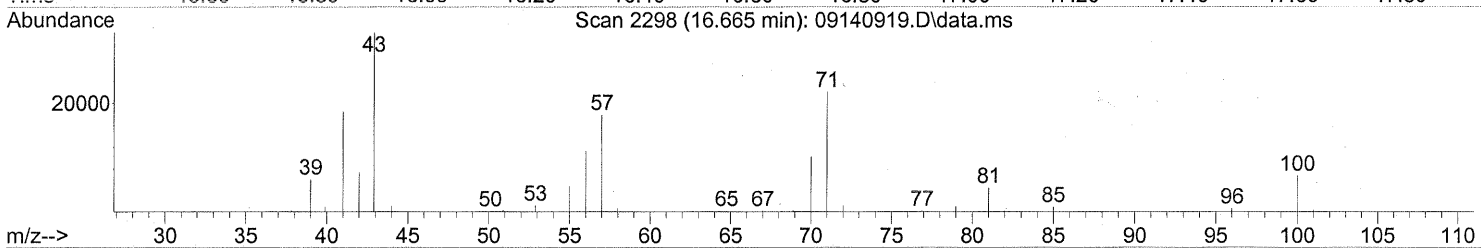
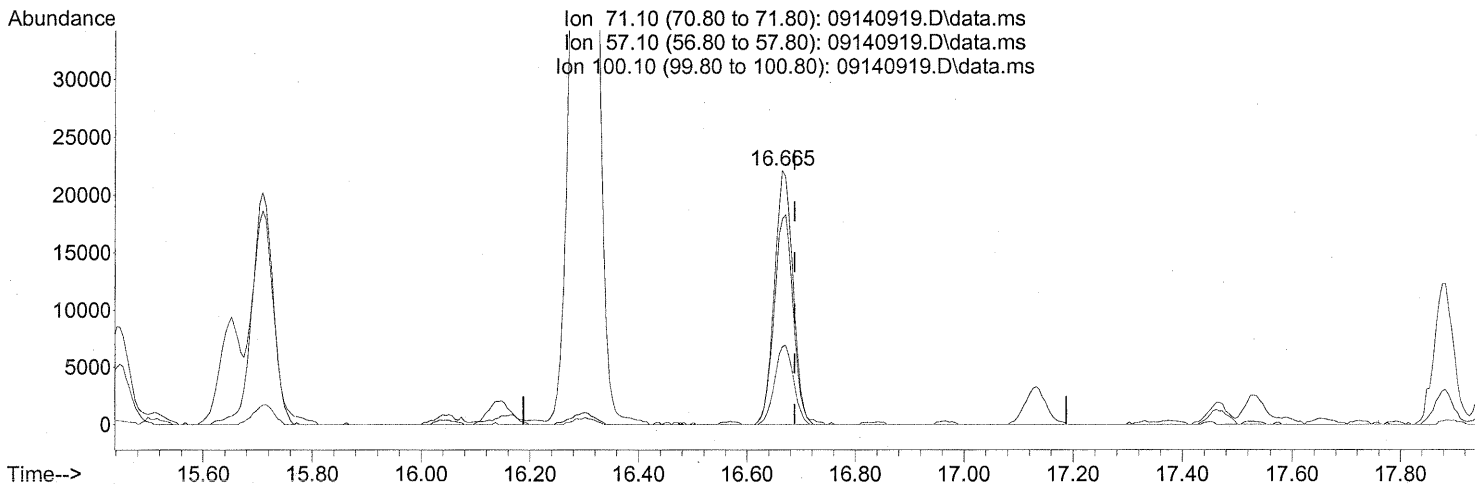
response 2140

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	95.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.665min (-0.023) 4.30ng

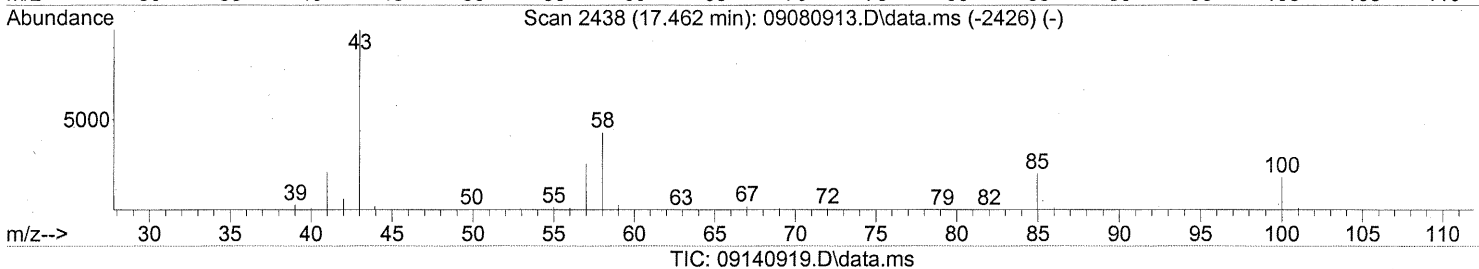
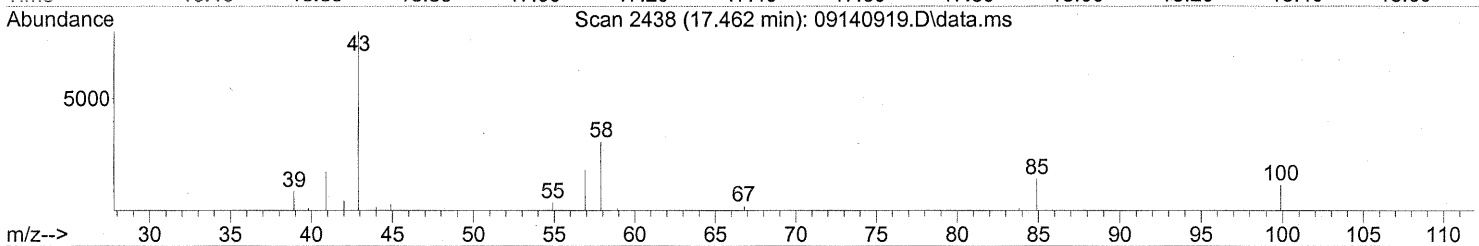
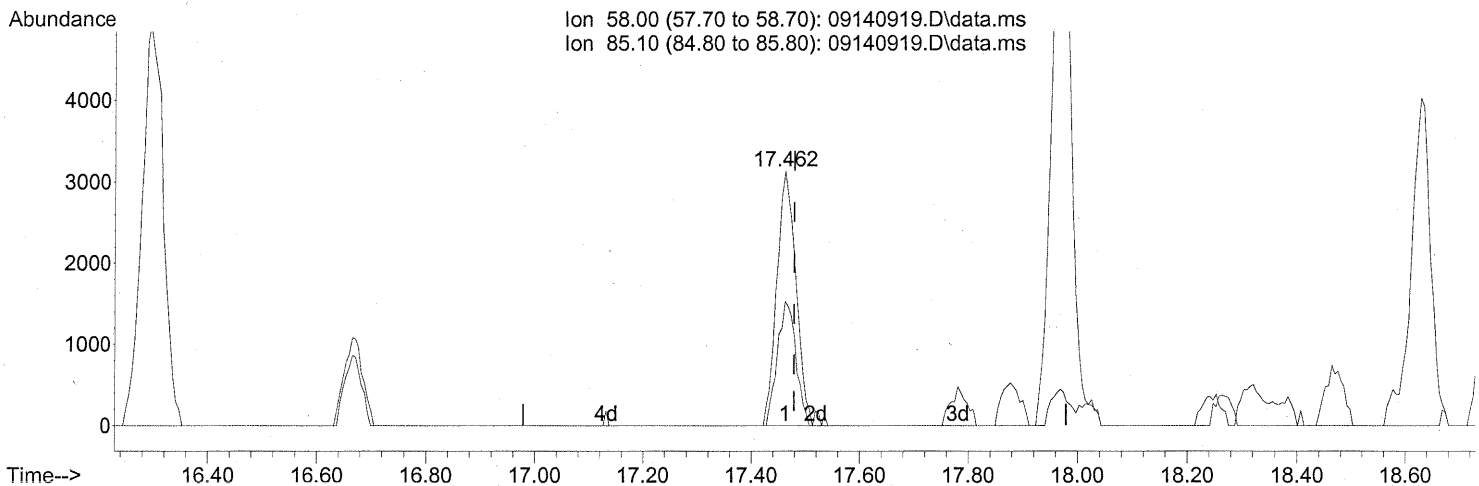
response 52745

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	84.83
100.10	26.80	31.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 0.72ng

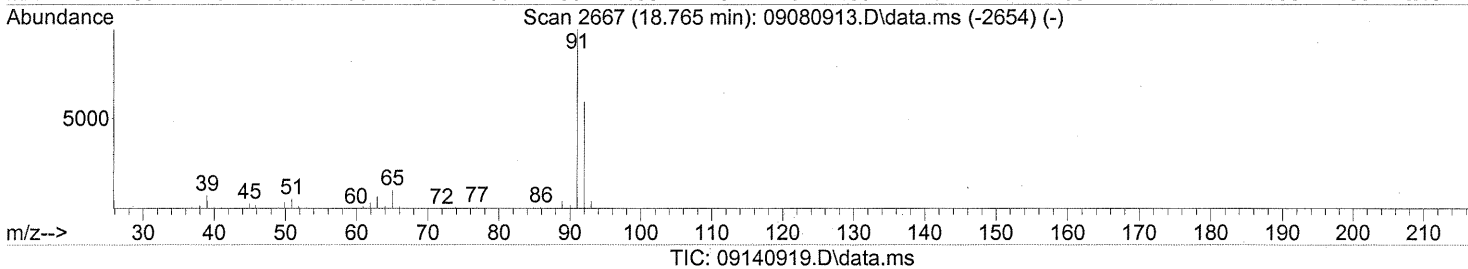
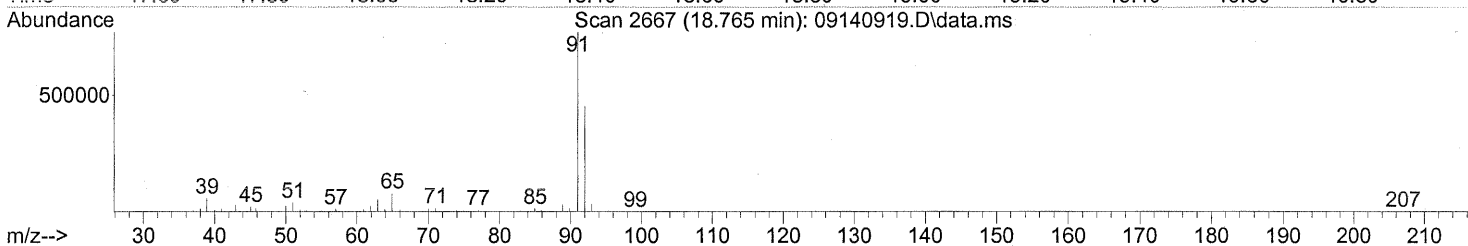
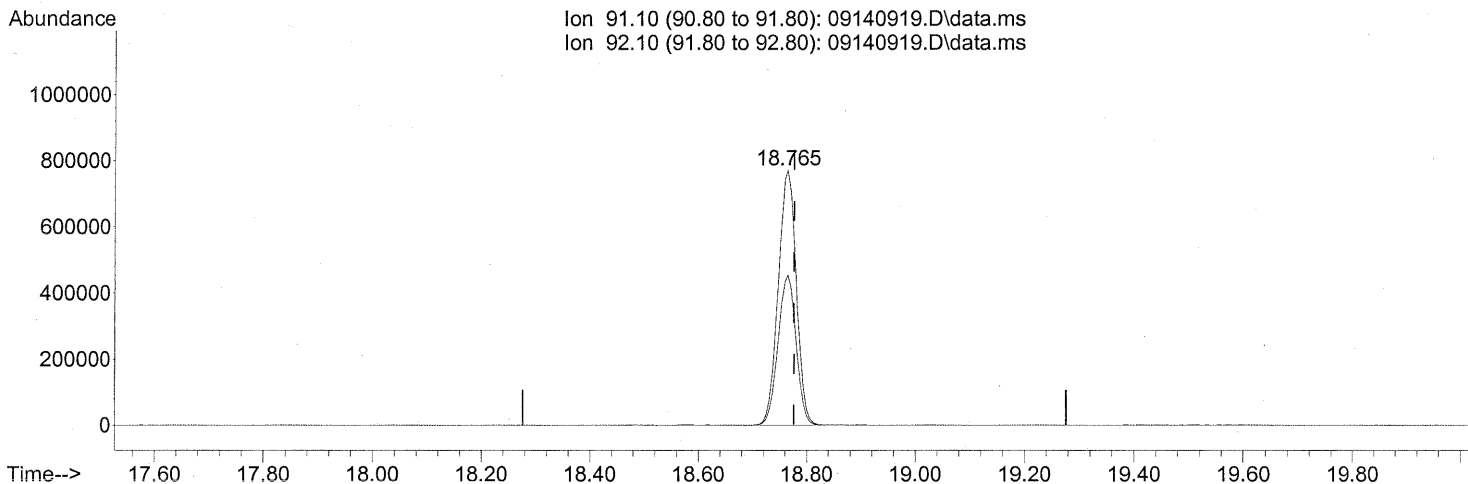
response 7665

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.765min (-0.011) 33.68ng

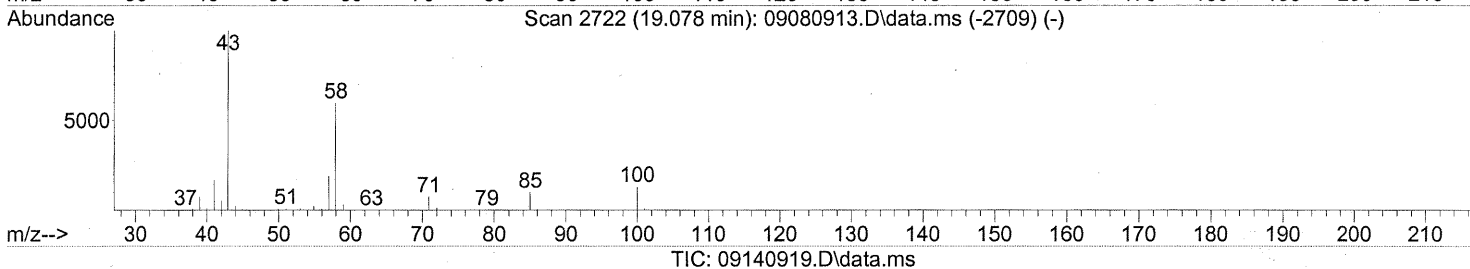
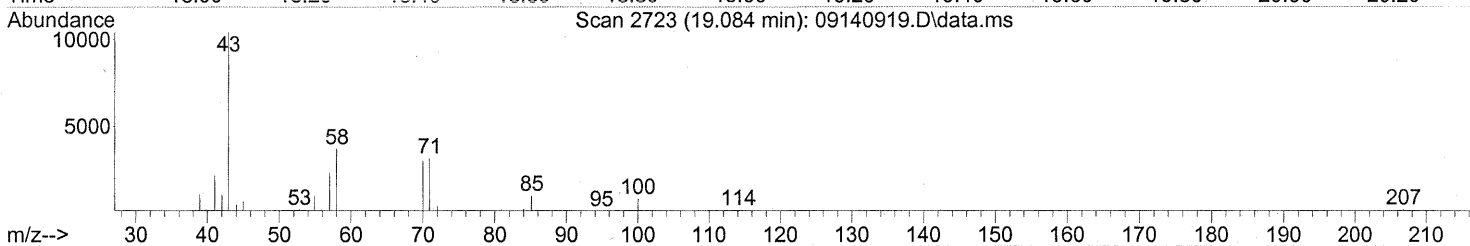
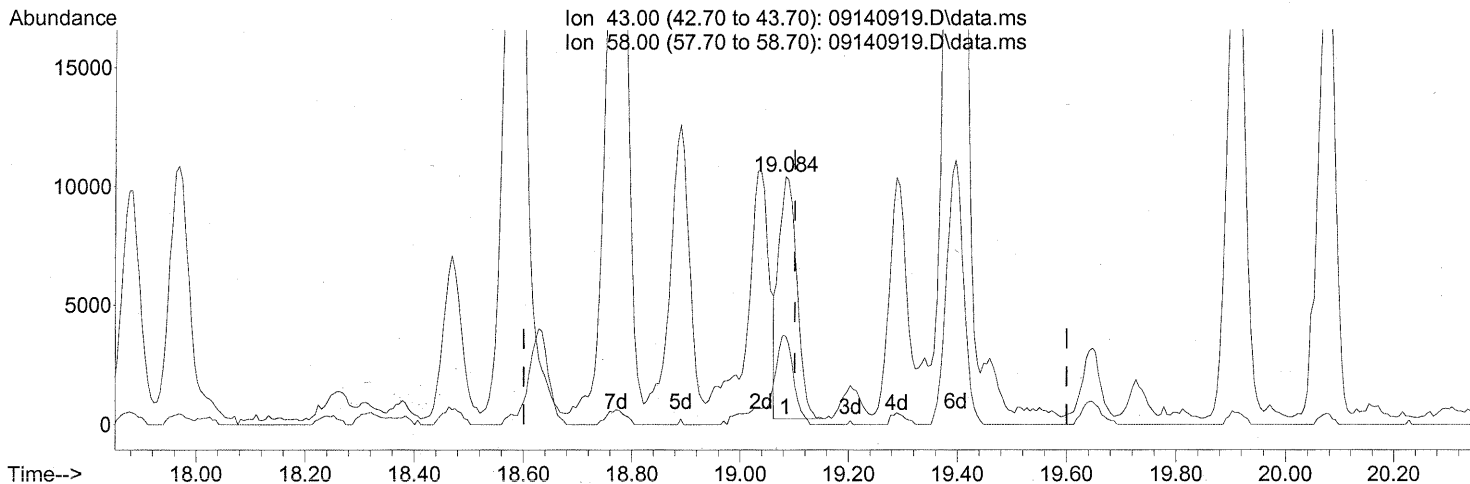
response 1775830

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



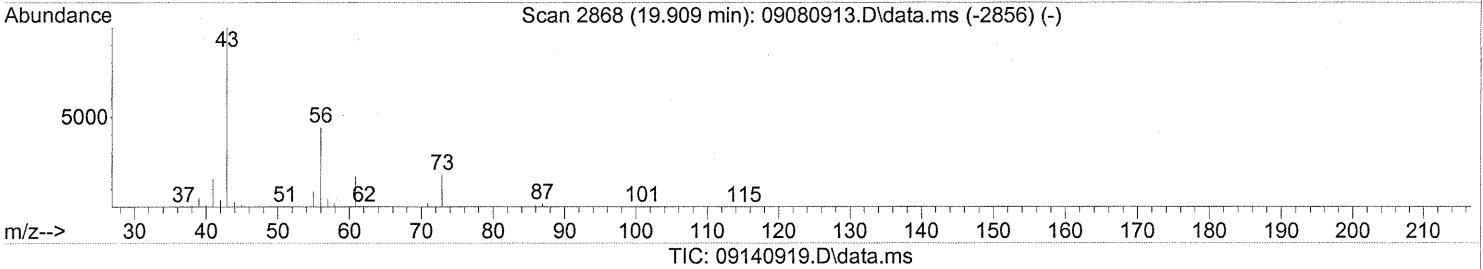
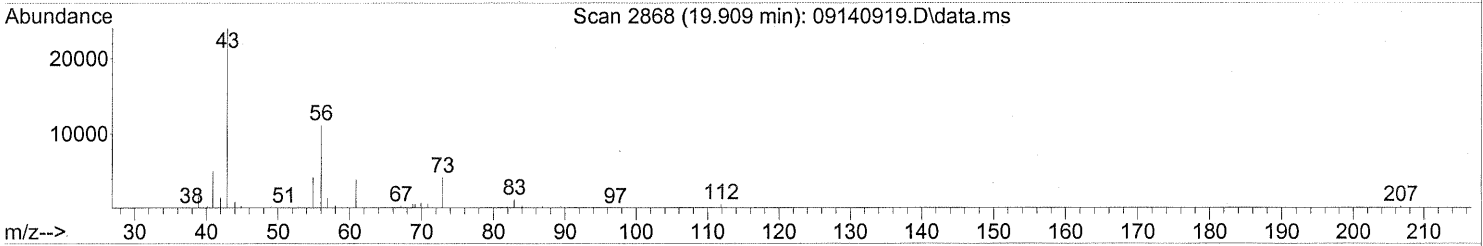
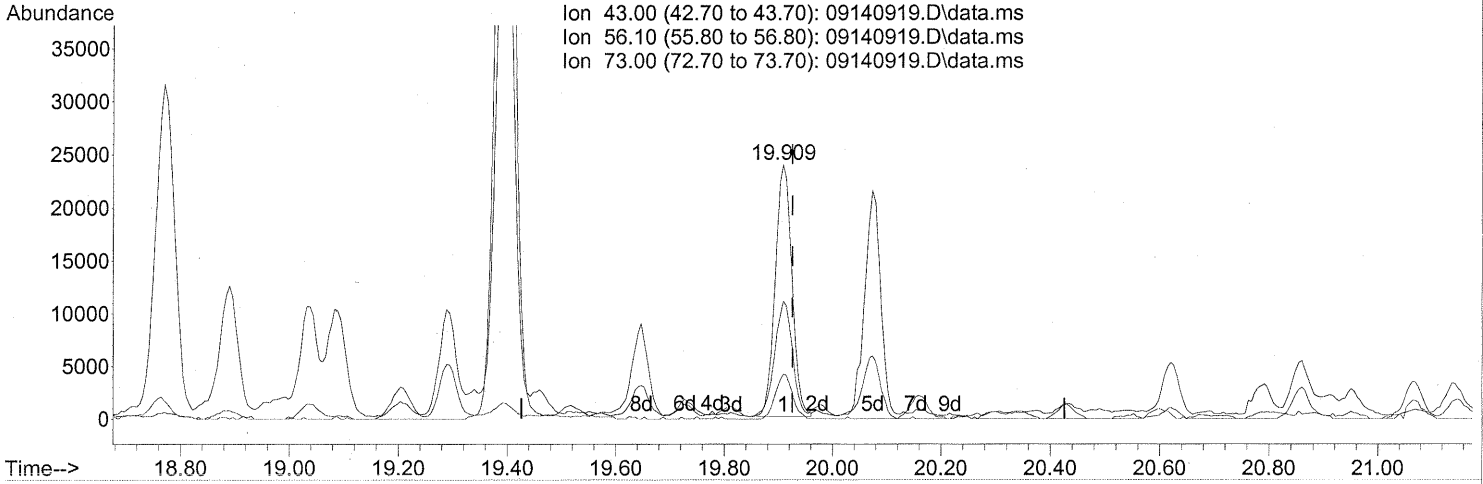
(59) 2-Hexanone (T)
 19.084min (-0.017) 0.93ng
 response 23730

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	37.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



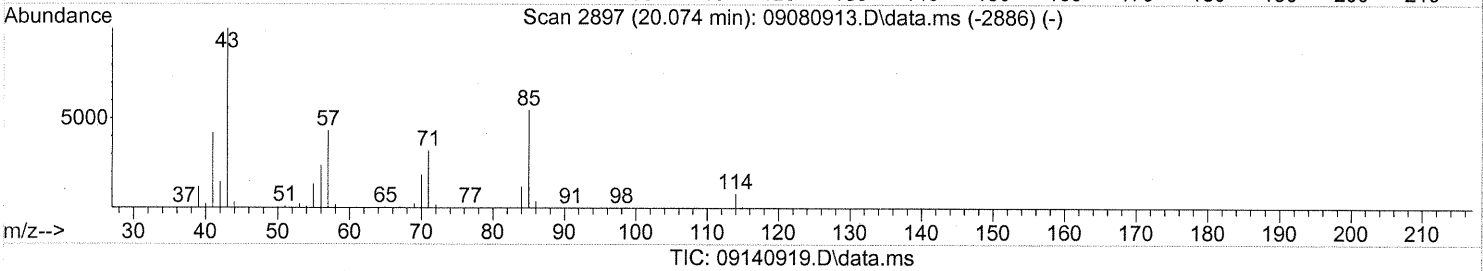
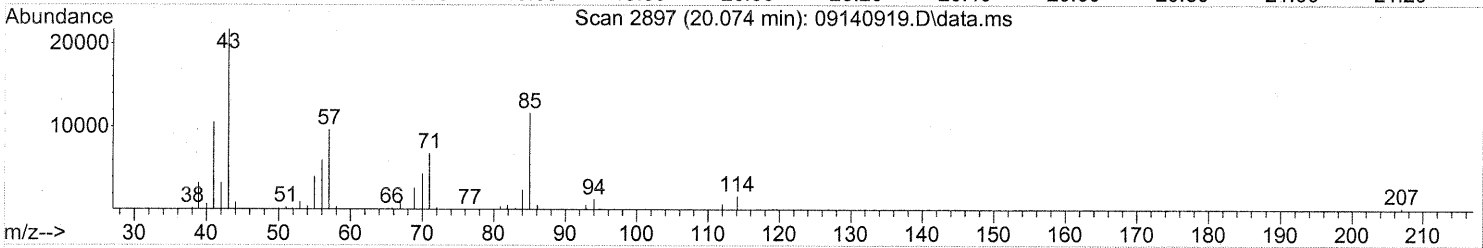
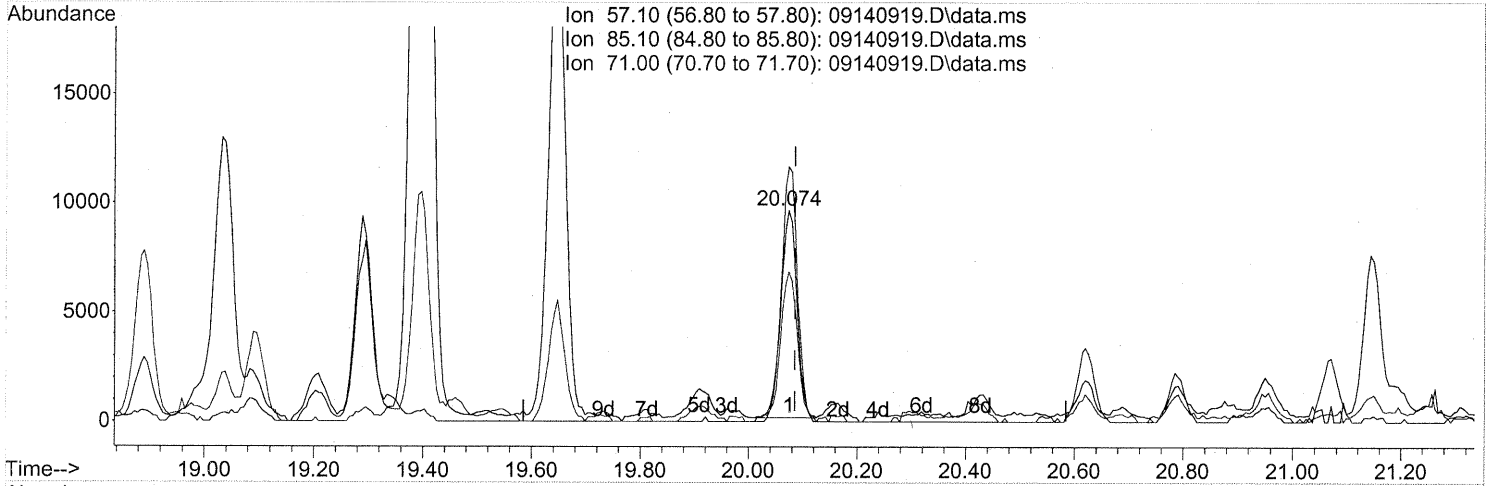
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 1.76ng
 response 51165

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	49.97
73.00	15.40	18.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.074min (-0.011) 1.97ng

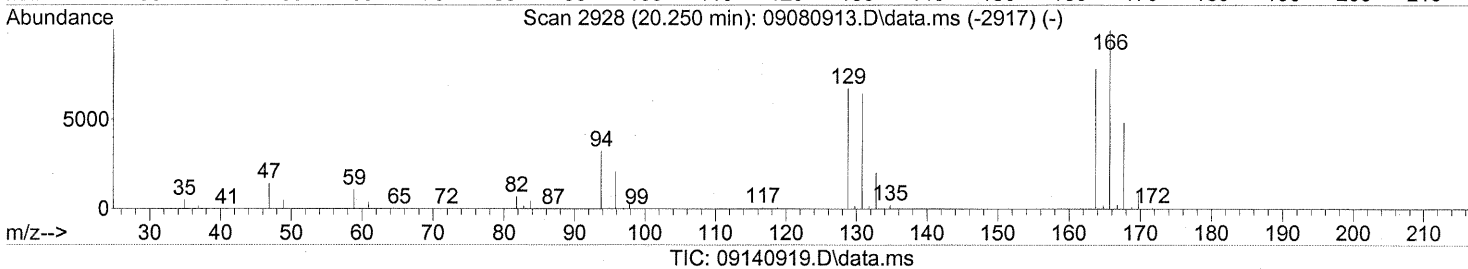
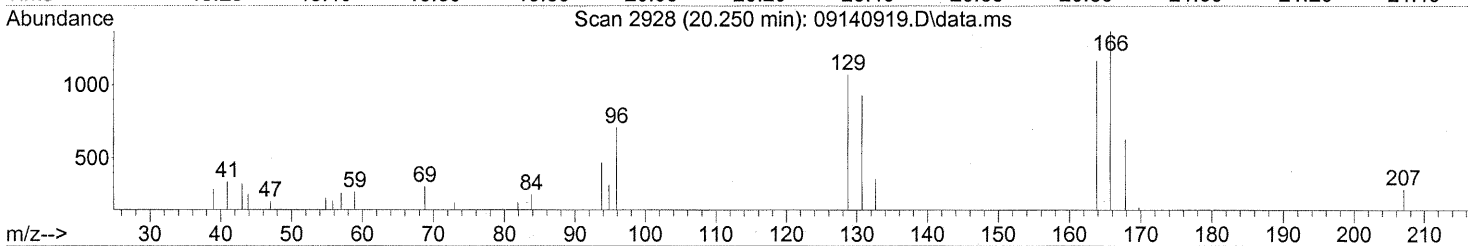
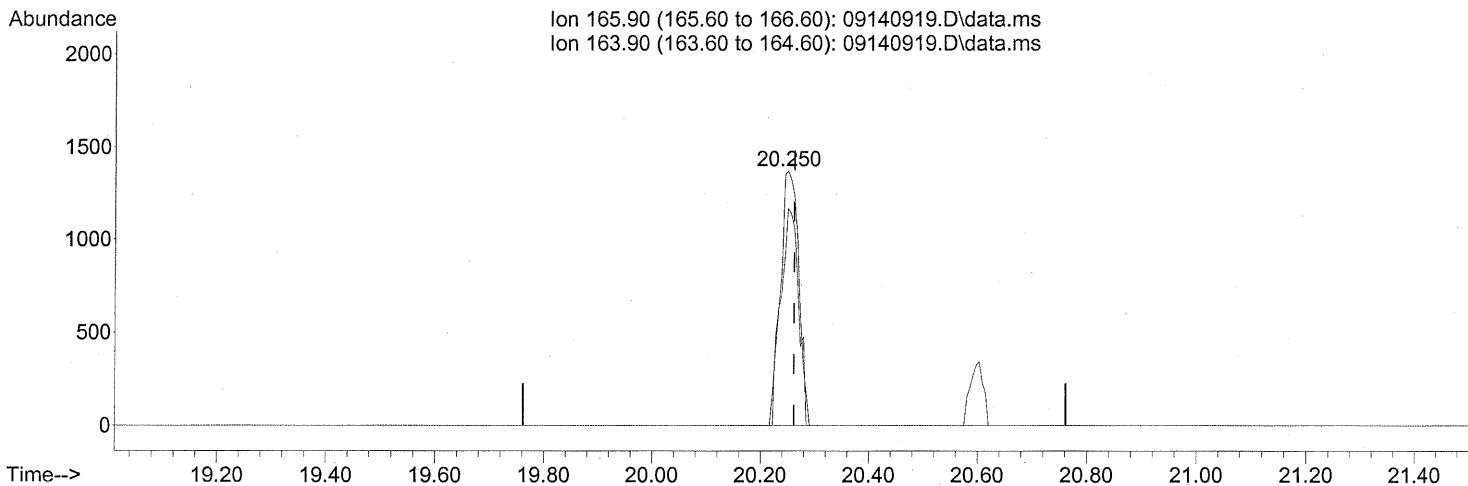
response 19448

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	122.98
71.00	69.40	77.50
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.250min (-0.011) 0.20ng

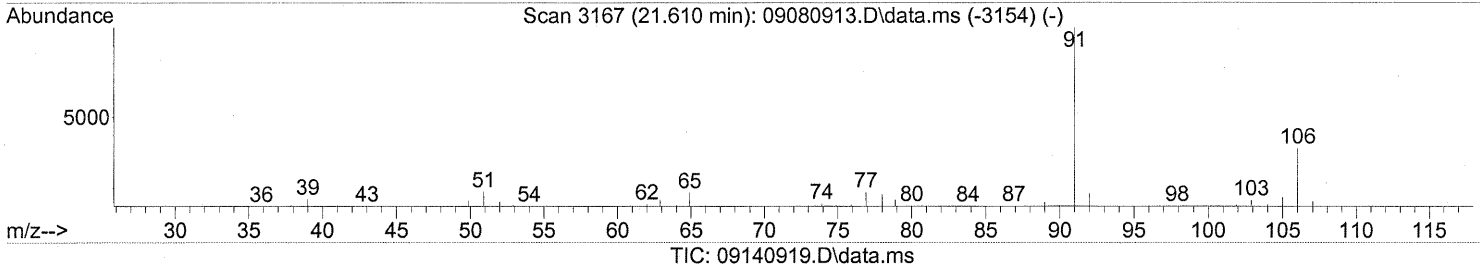
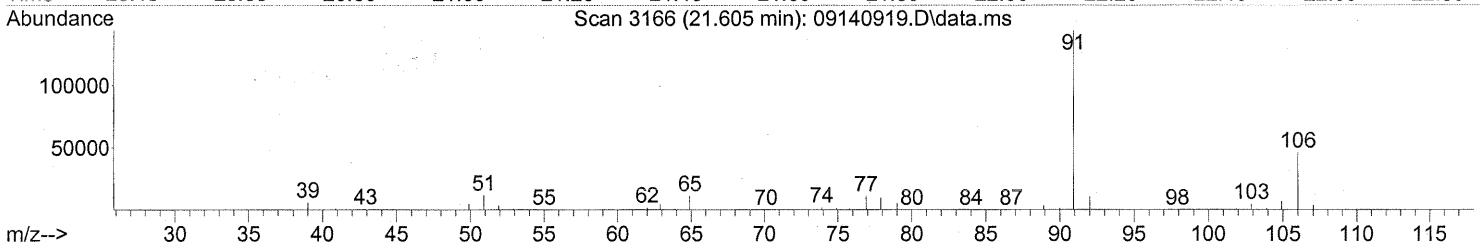
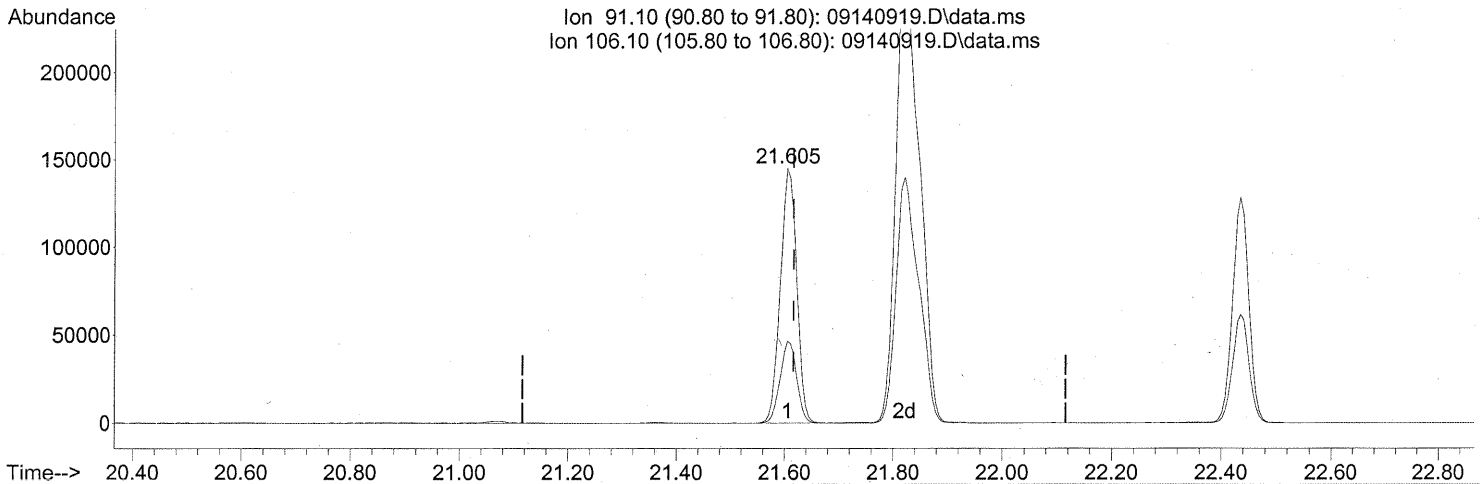
response 3210

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	82.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.605min (-0.011) 5.23ng

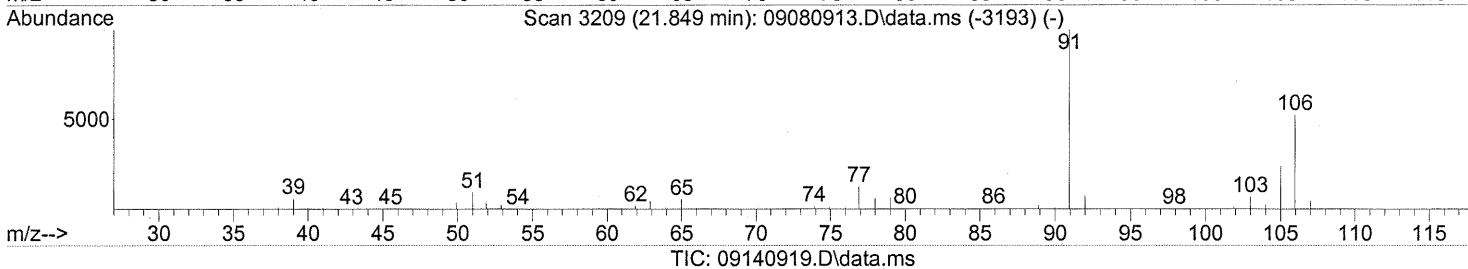
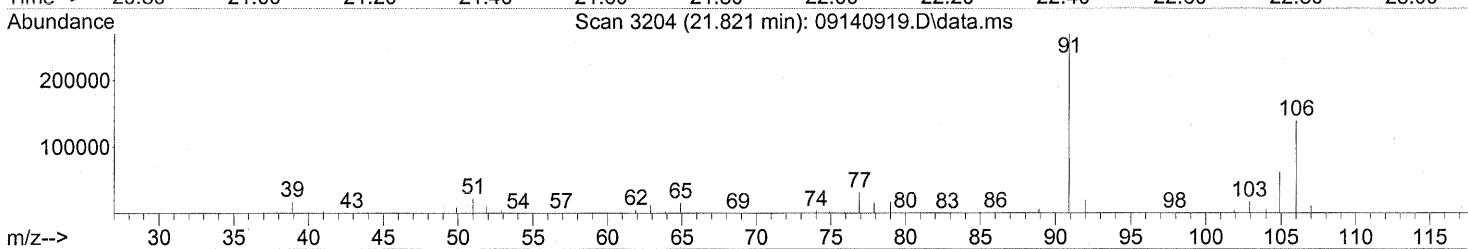
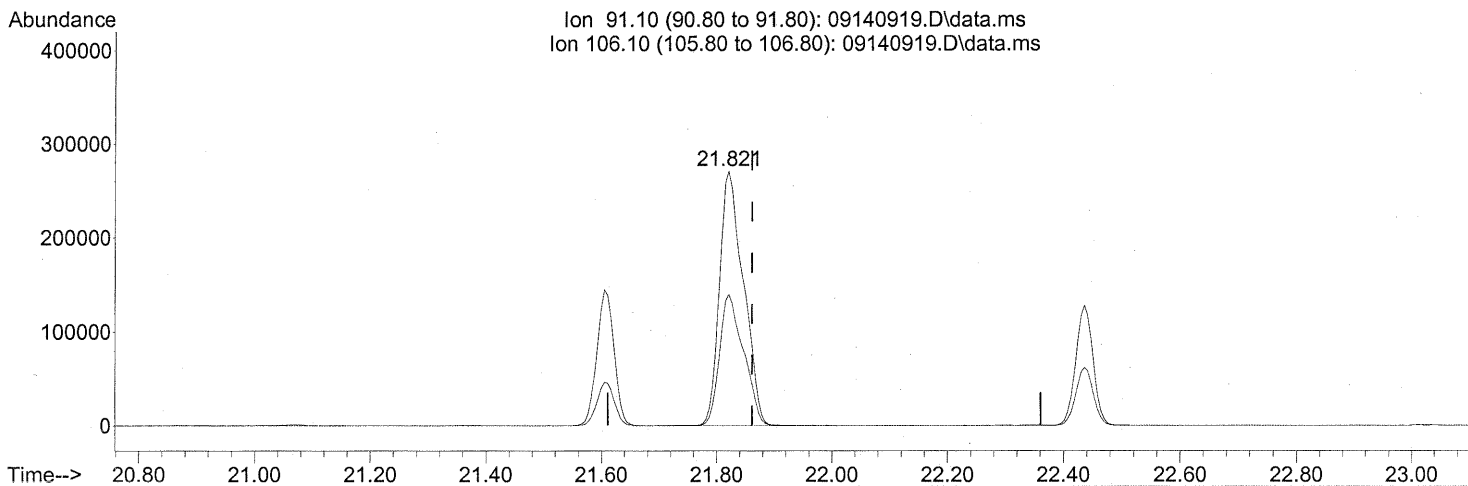
response 302751

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

21.821min (-0.040) 17.29ng

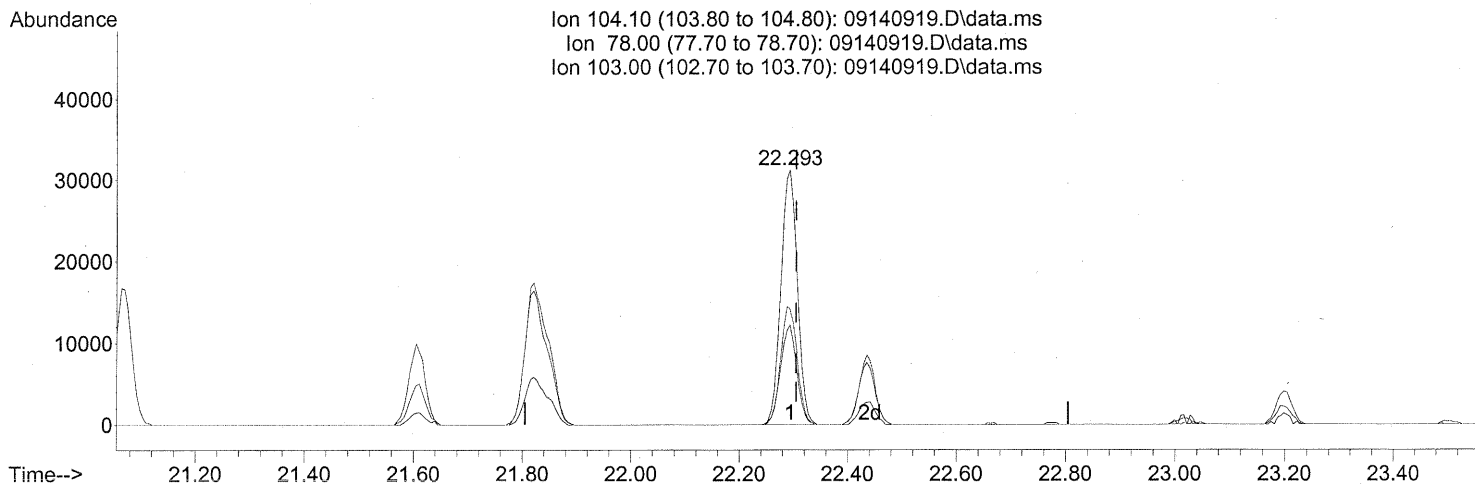
response 782396

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.67
0.00	0.00	0.00
0.00	0.00	0.00

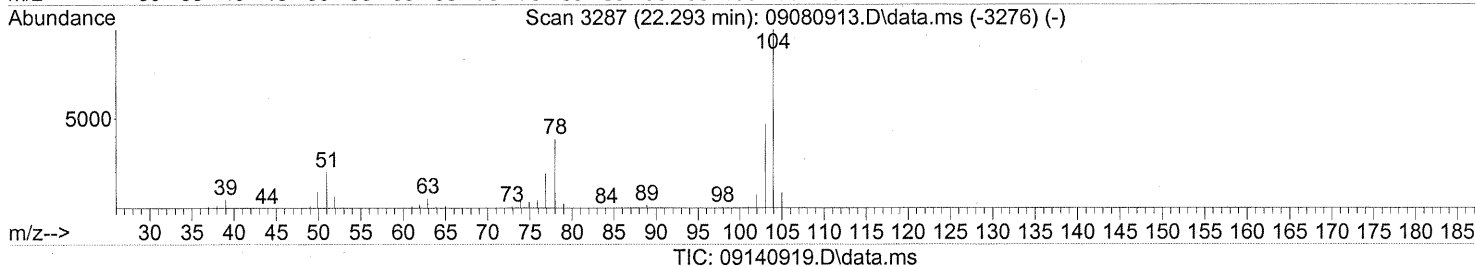
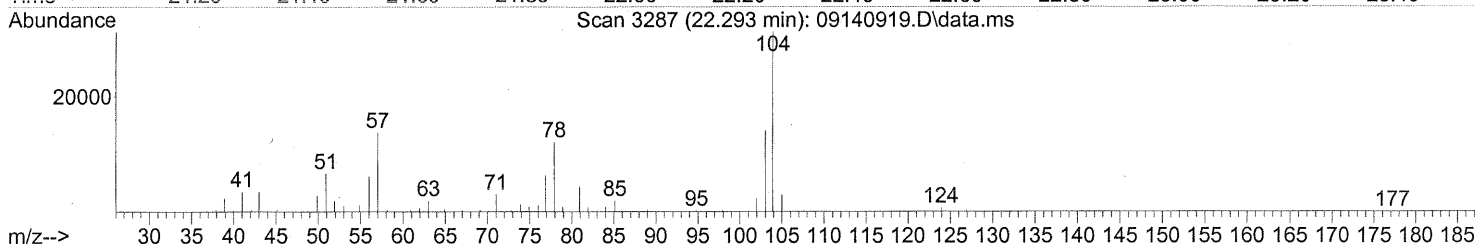
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Ion 104.10 (103.80 to 104.80): 09140919.D\data.ms
 Ion 78.00 (77.70 to 78.70): 09140919.D\data.ms
 Ion 103.00 (102.70 to 103.70): 09140919.D\data.ms



(69) Styrene (T)

22.293min (-0.011) 1.76ng

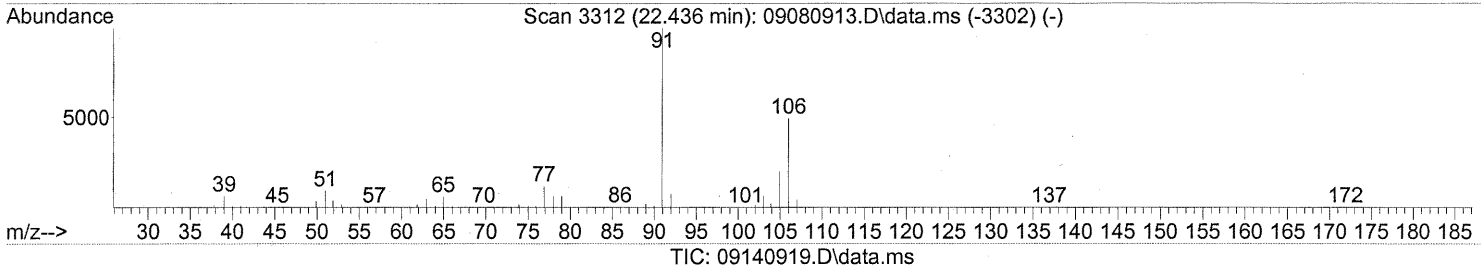
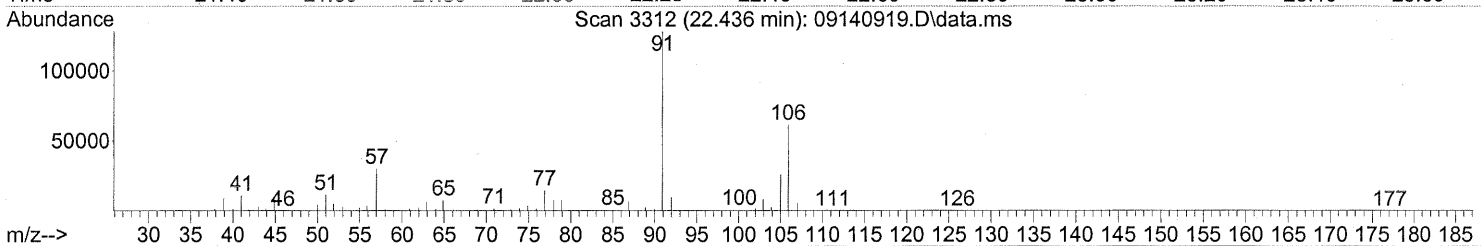
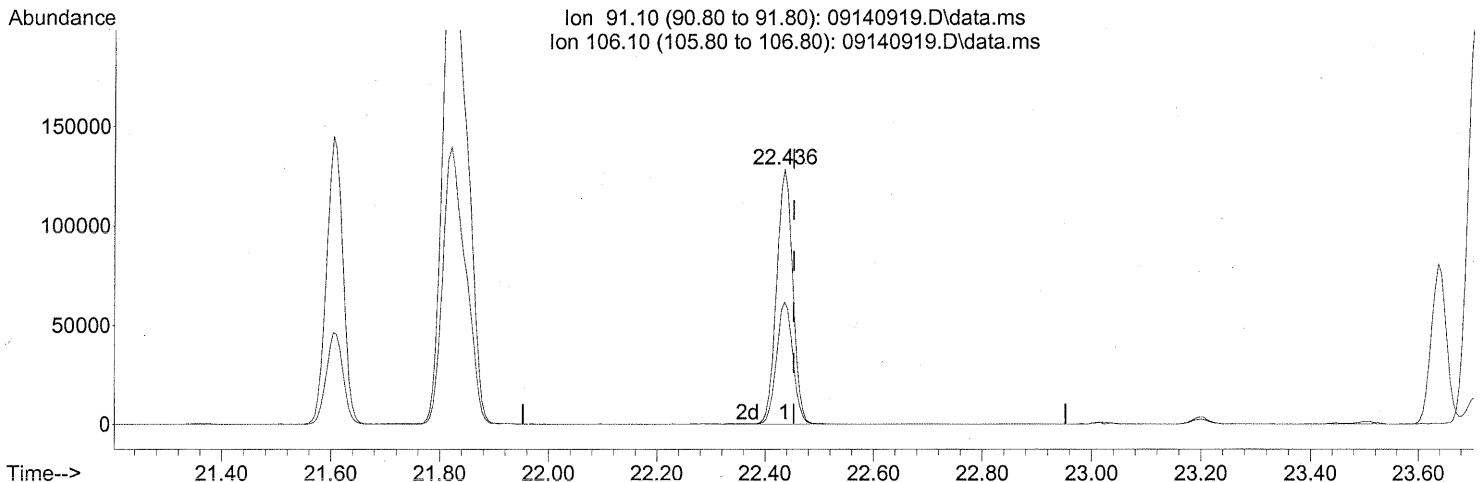
response 65359

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.02
103.00	47.80	46.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.436min (-0.017) 5.73ng

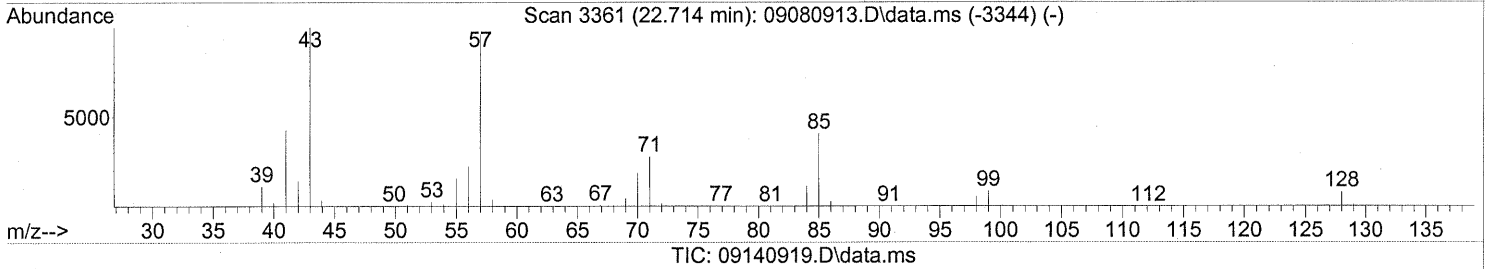
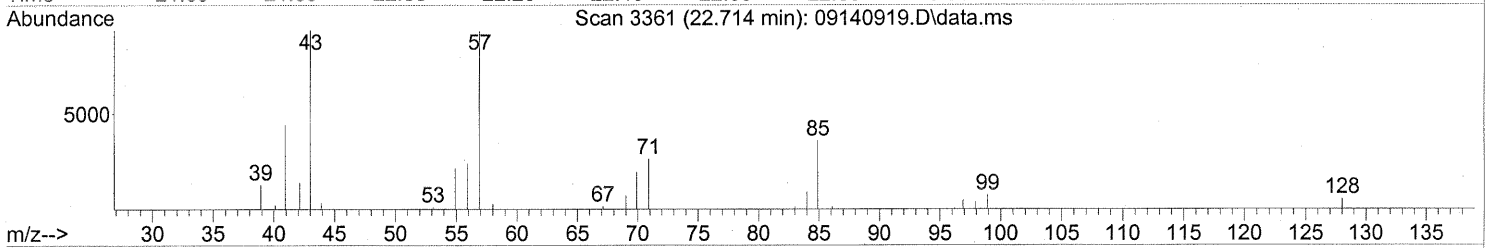
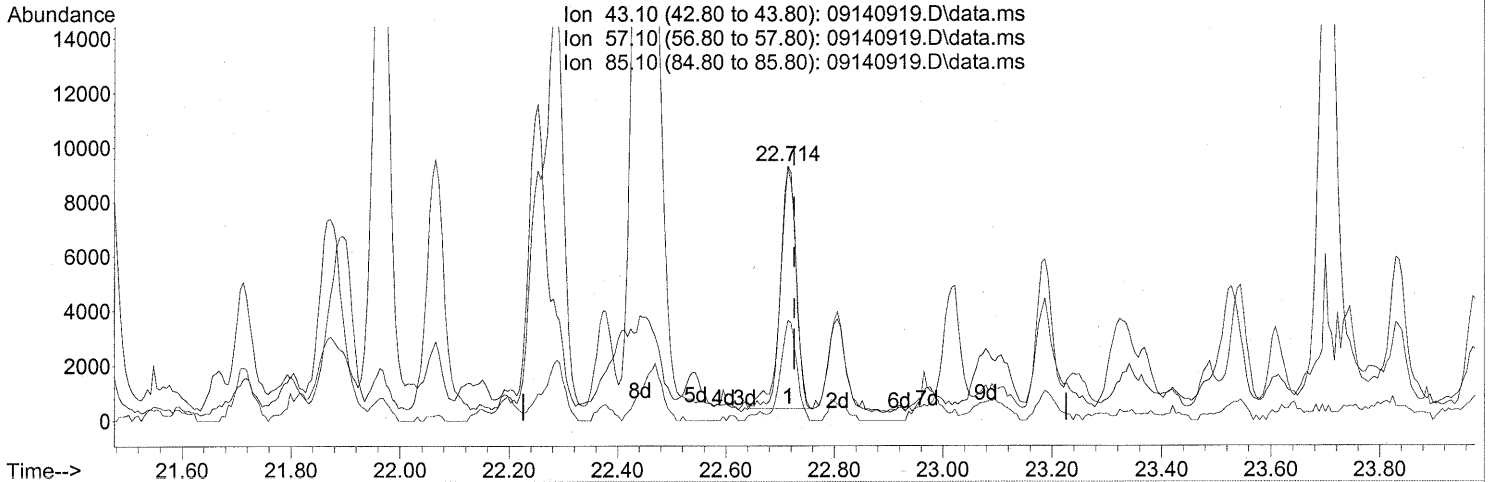
response 265105

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



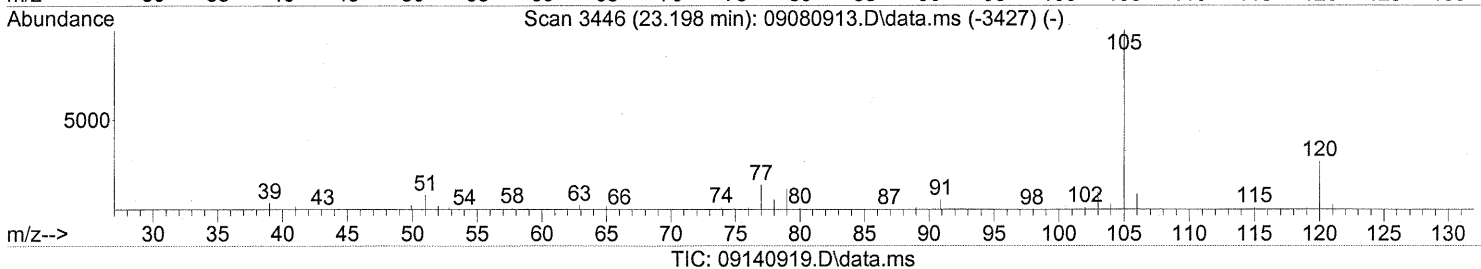
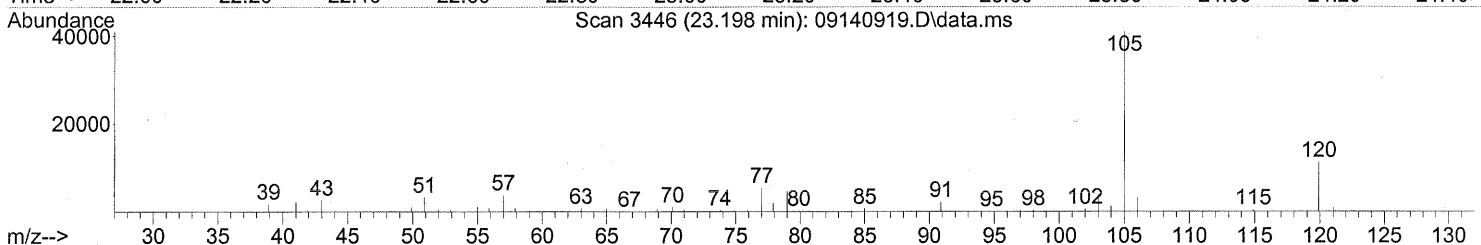
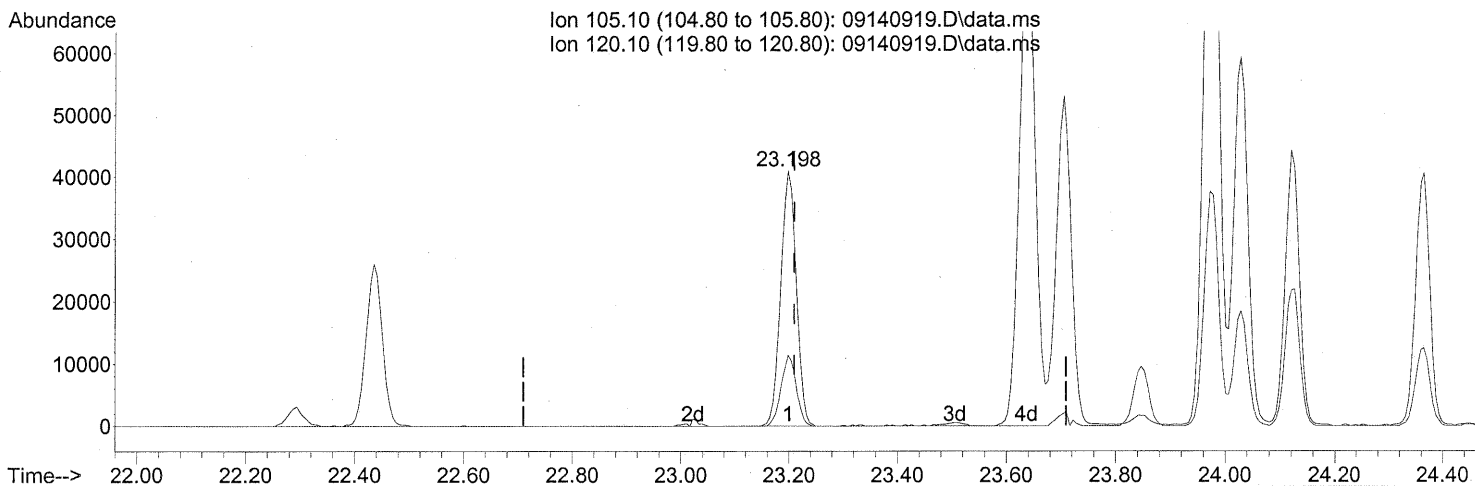
(71) n-Nonane (T)
 22.714min (-0.011) 0.82ng
 response 18445

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	91.16
85.10	33.10	40.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(74) Cumene (T)

23.198min (-0.011) 1.29ng

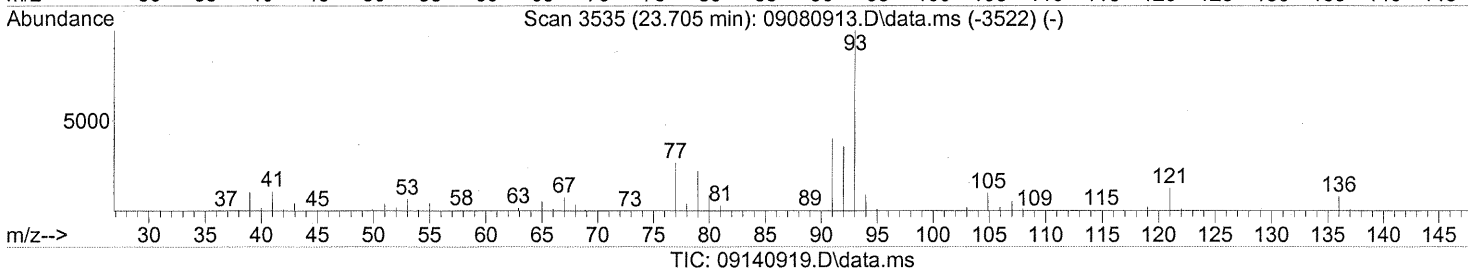
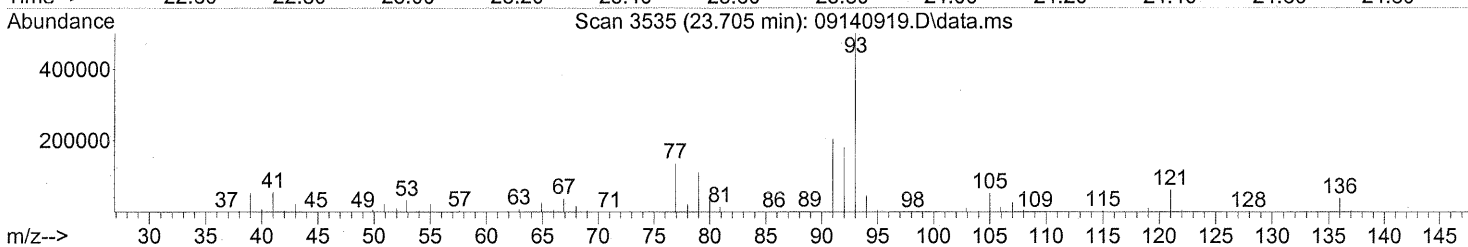
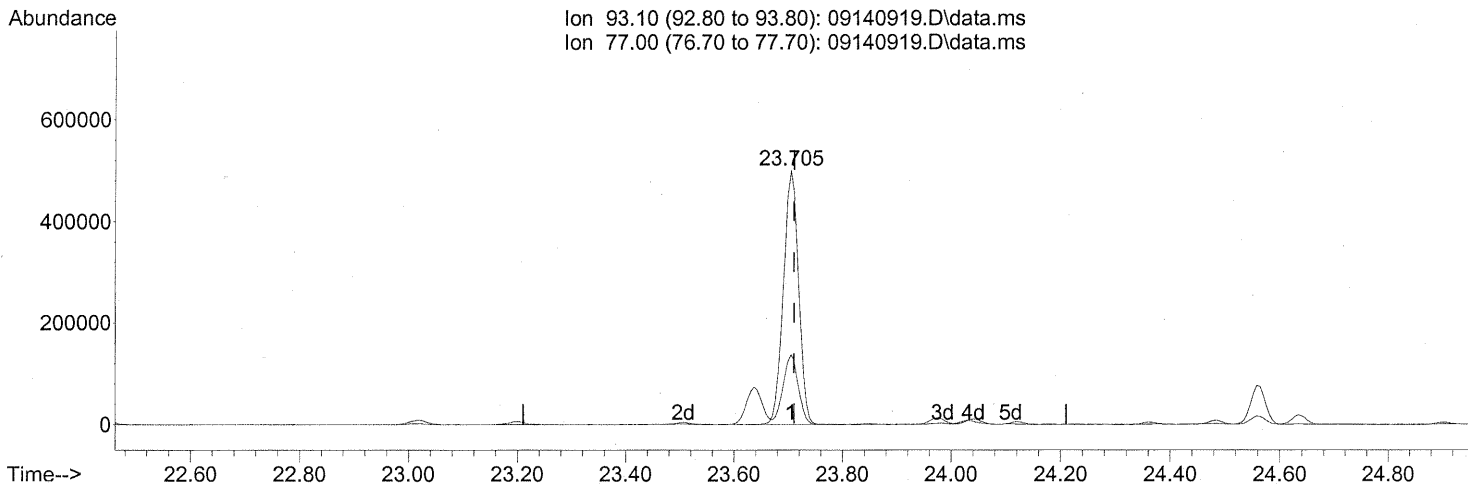
response 81427

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



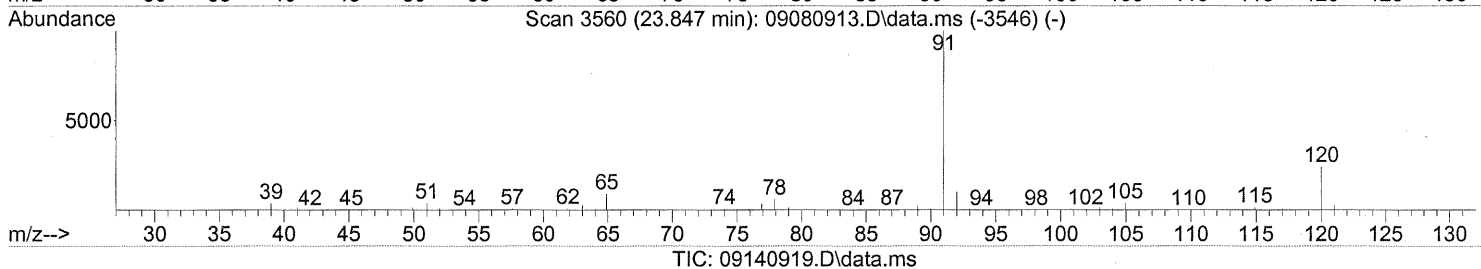
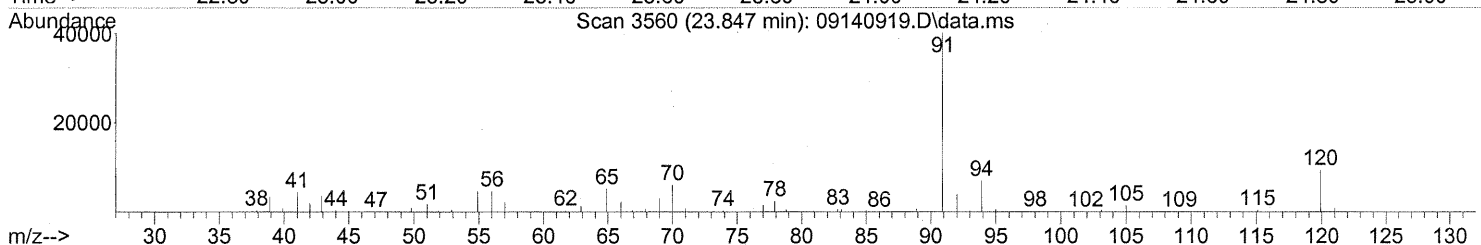
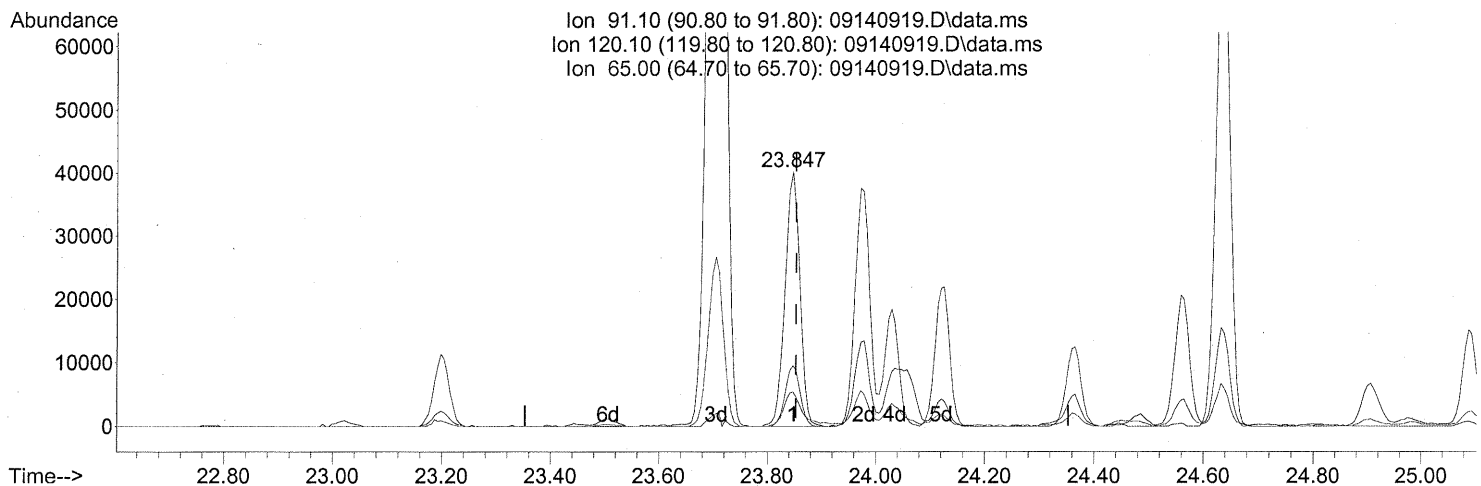
(75) alpha-Pinene (T)
 23.705min (-0.006) 32.56ng
 response 968207

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 1.03ng

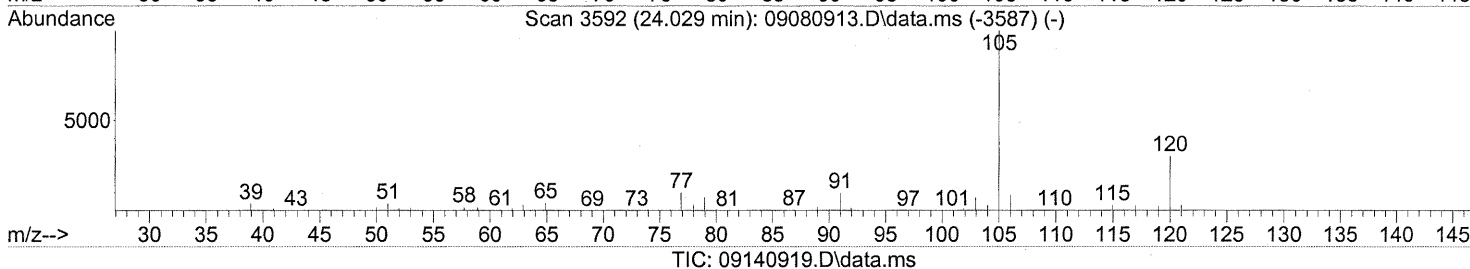
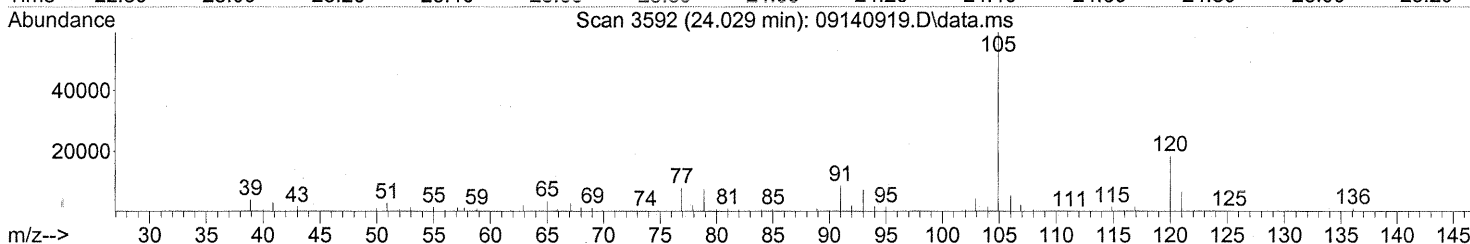
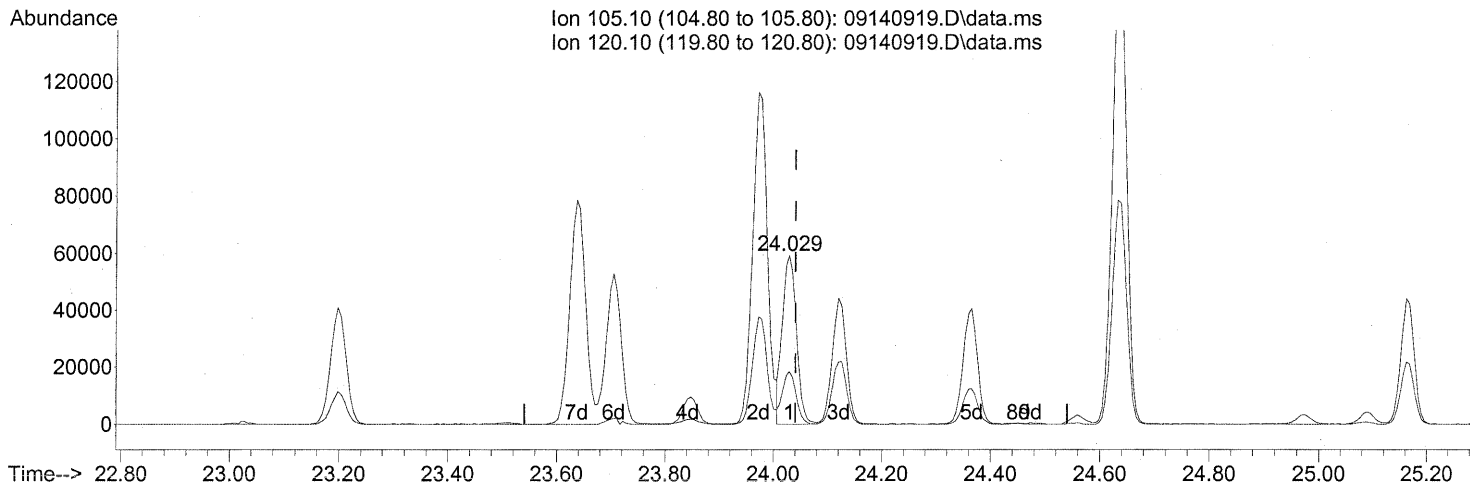
response 76155

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	23.72
65.00	10.30	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.029min (-0.011) 1.80ng

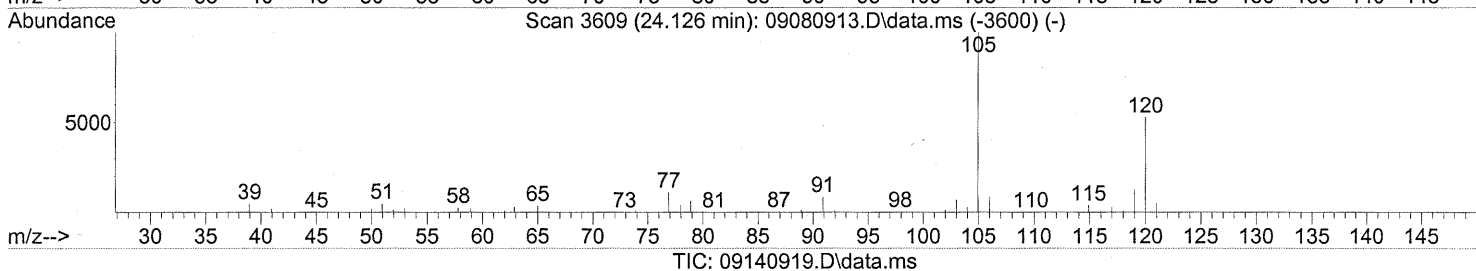
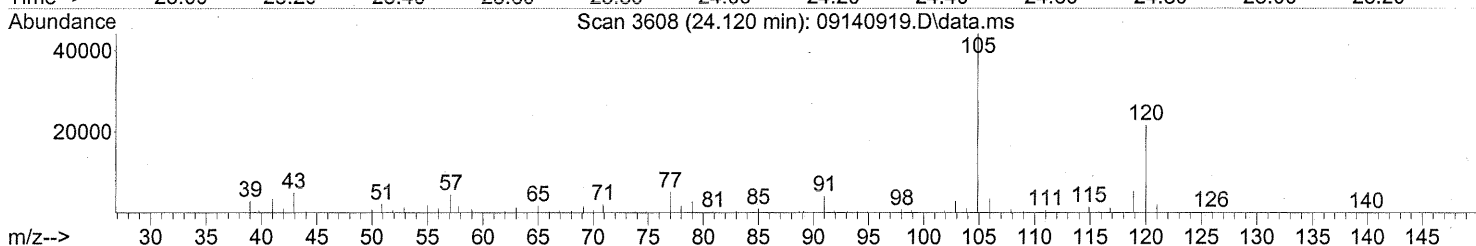
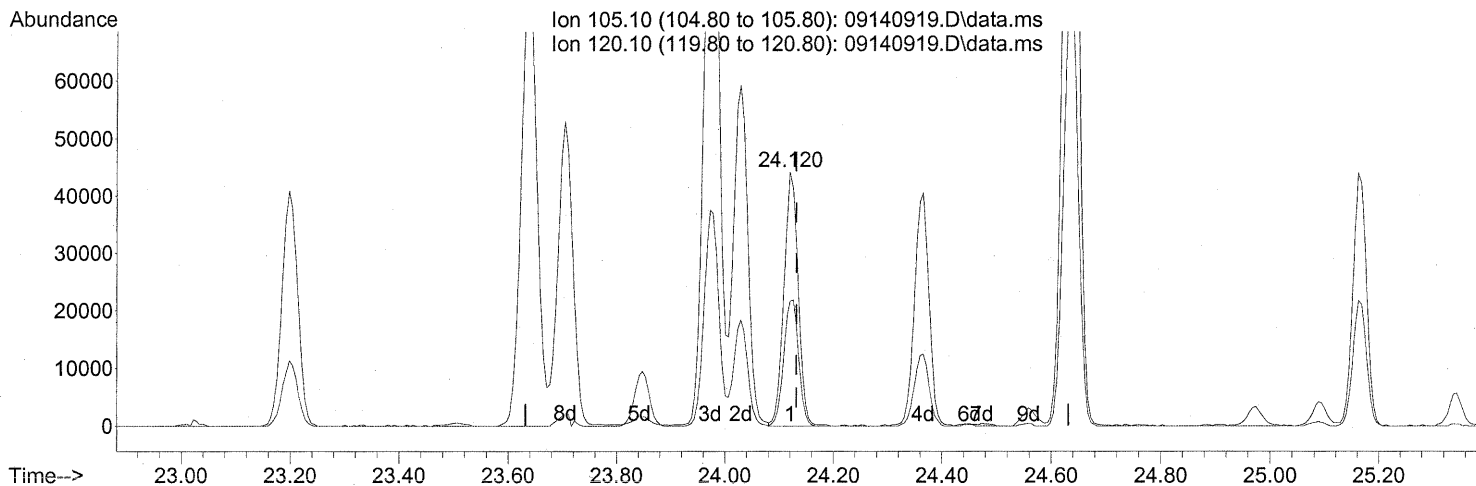
response 106106

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 1.63ng

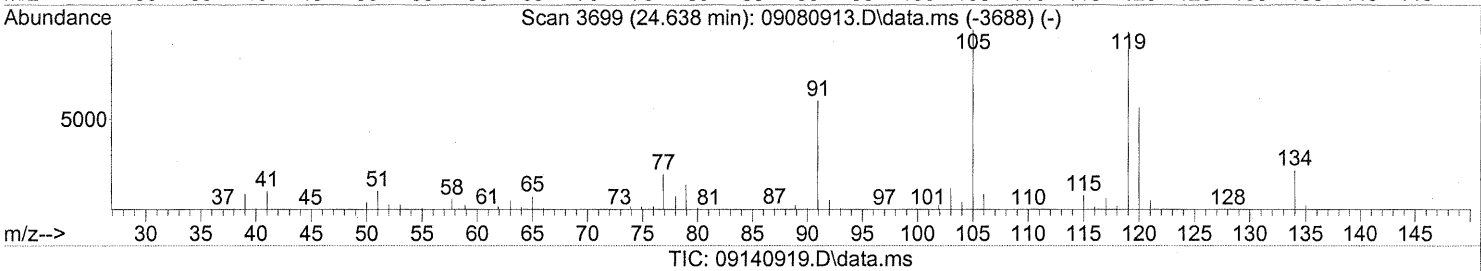
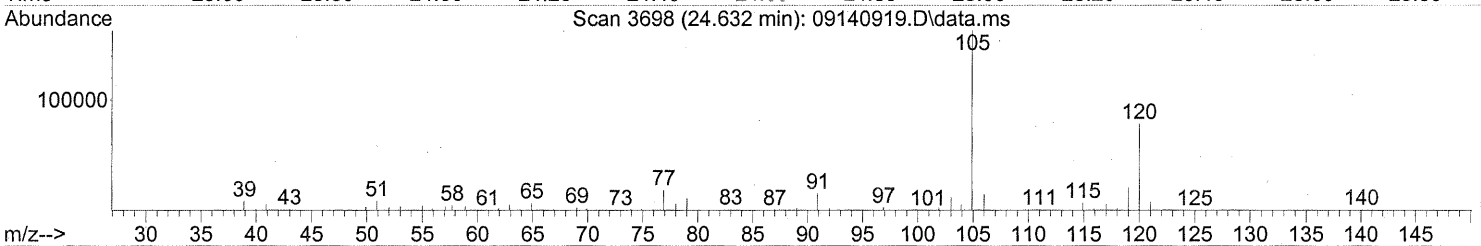
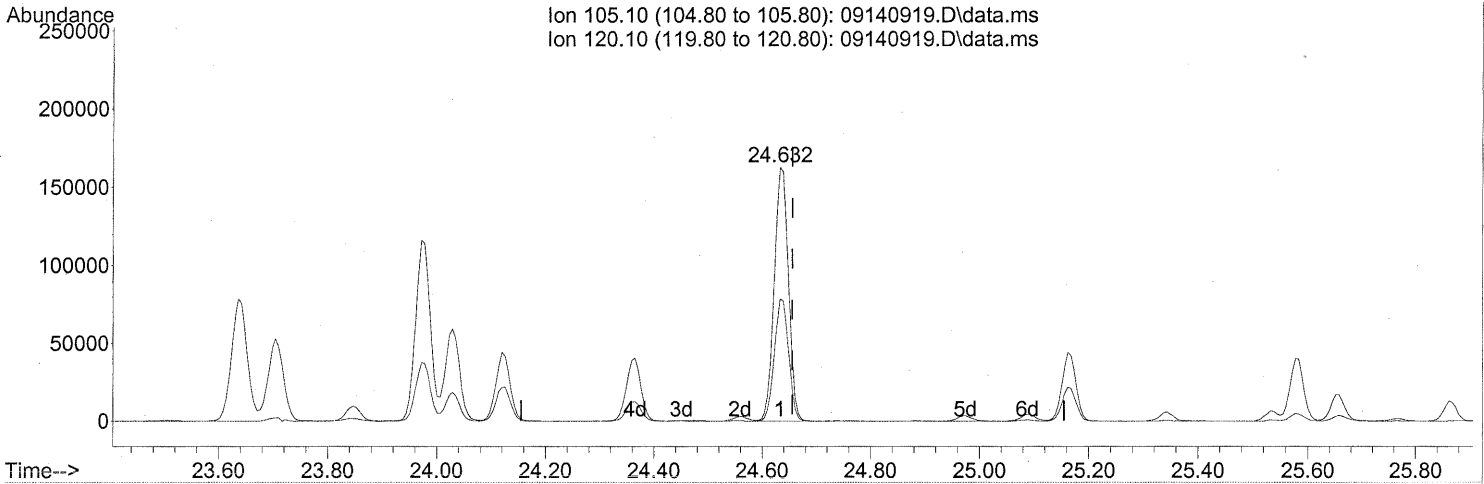
response 79914

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	51.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.632min (-0.023) 5.64ng

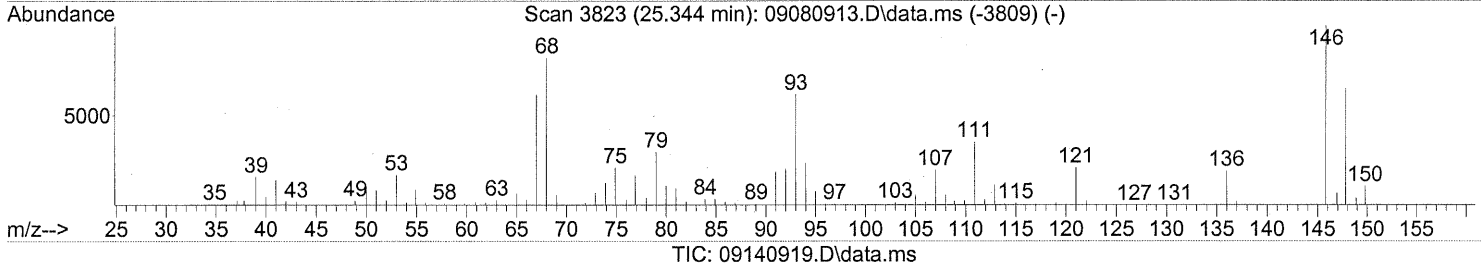
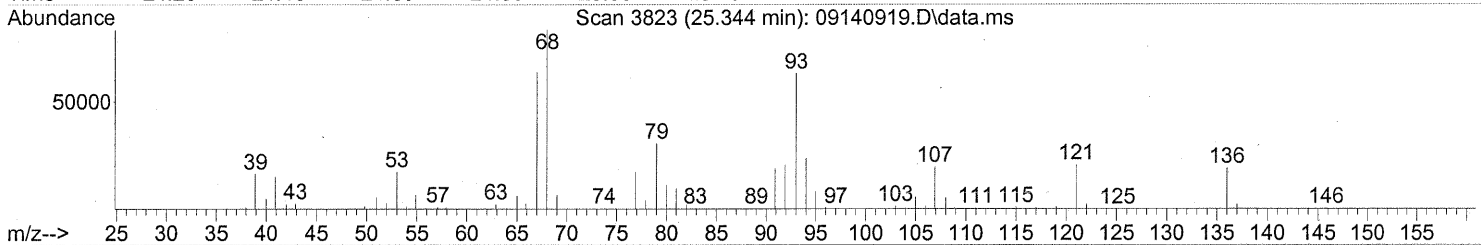
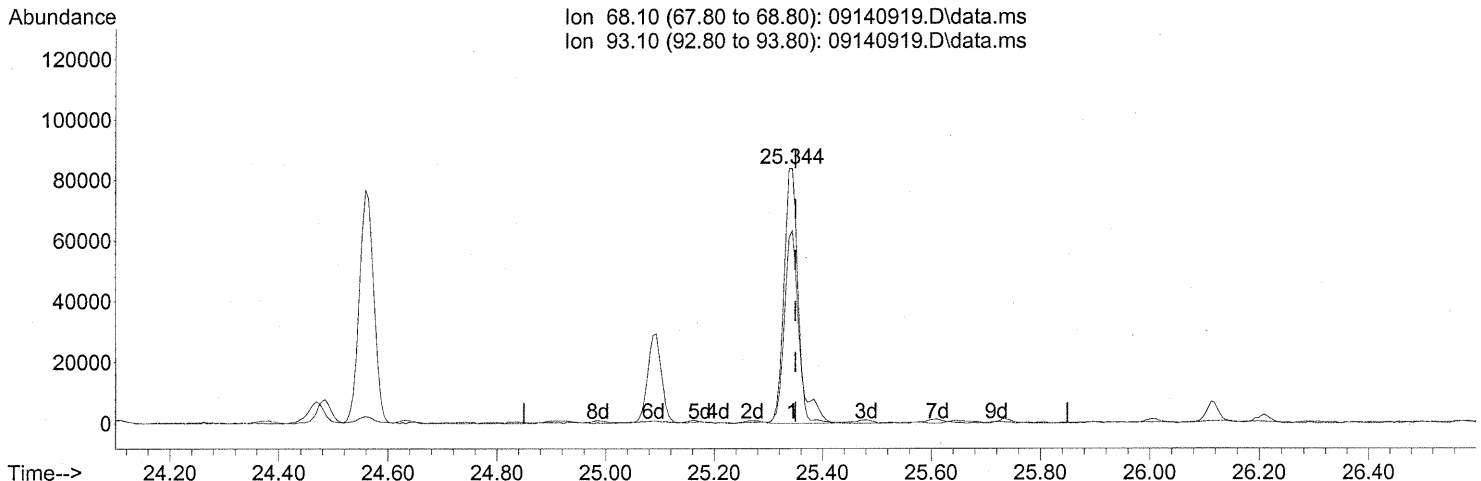
response 295653

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 15 09:01:34 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



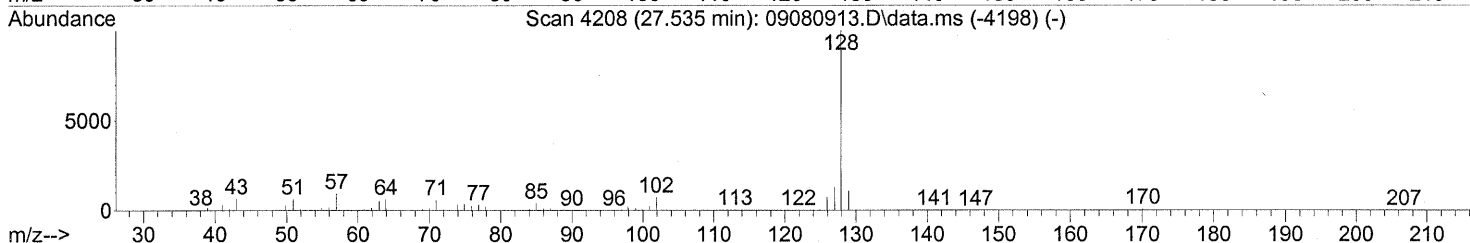
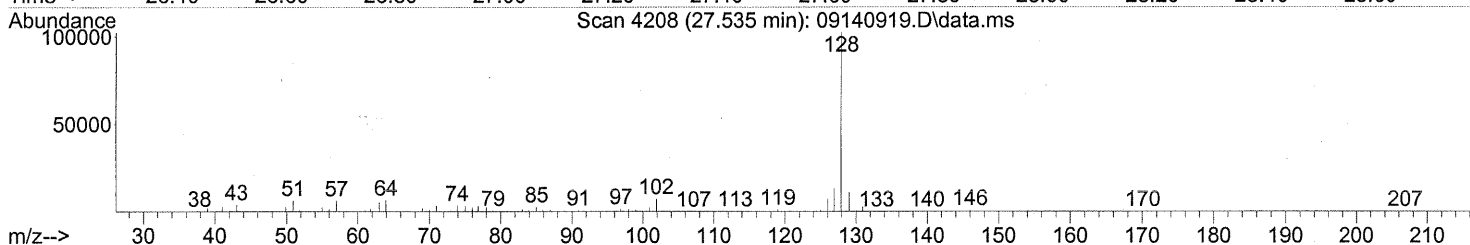
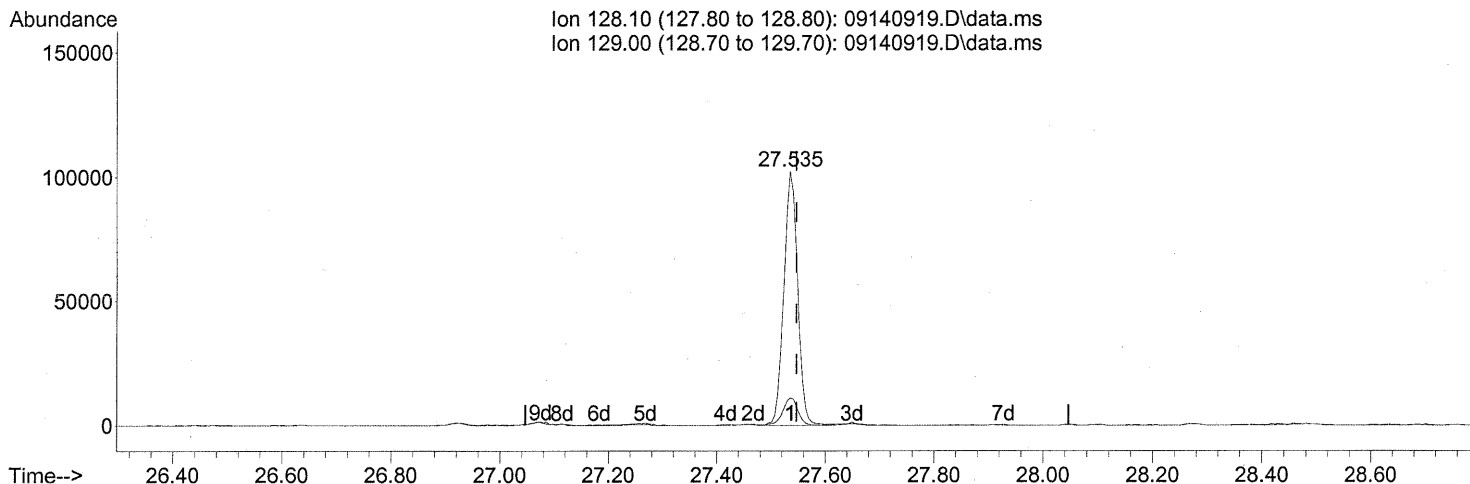
(91) d-Limonene (T)
 25.344min (-0.006) 7.81ng
 response 147018

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	82.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140919.D
 Acq On : 14 Sep 2009 18:31
 Operator : LH
 Sample : P0903145-003 (1000mL)
 Misc : Environmental H & E 102650
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 10:41:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09140919.D\data.ms

(95) Naphthalene (T)

27.535min (-0.011) 2.36ng

response 179631

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.83
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102651
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01205

CAS Project ID: P0903145
CAS Sample ID: P0903145-004

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.4	0.63	0.84	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.2	0.63	0.45	0.13	
74-87-3	Chloromethane	0.33	0.13	0.16	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.047	
64-17-5	Ethanol	82	6.3	44	3.3	
75-05-8	Acetonitrile	59	0.63	35	0.37	
107-02-8	Acrolein	1.9	0.63	0.83	0.27	
67-64-1	Acetone	31	6.3	13	2.6	
75-69-4	Trichlorofluoromethane	1.1	0.13	0.19	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	5.0	0.63	2.0	0.25	M1
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.57	0.13	0.074	0.016	
75-15-0	Carbon Disulfide	ND	0.63	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	2.5	0.63	0.84	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 9/22/09 **170**
 TO15scan.xls - 75 Compounds - PageNo.:

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102651
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01205

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	6.0	0.63	1.7	0.17	
110-54-3	n-Hexane	5.2	0.63	1.5	0.18	
67-66-3	Chloroform	0.97	0.13	0.20	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	ND	0.21	
107-06-2	1,2-Dichloroethane	0.49	0.13	0.12	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	2.8	0.13	0.87	0.039	
56-23-5	Carbon Tetrachloride	0.50	0.13	0.079	0.020	
110-82-7	Cyclohexane	0.80	0.63	0.23	0.18	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	0.35	0.13	0.052	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	2.1	0.63	0.52	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	0.77	0.63	0.19	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	19	0.63	5.1	0.17	
591-78-6	2-Hexanone	0.76	0.63	0.18	0.15	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.016	
123-86-4	n-Butyl Acetate	0.98	0.63	0.21	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

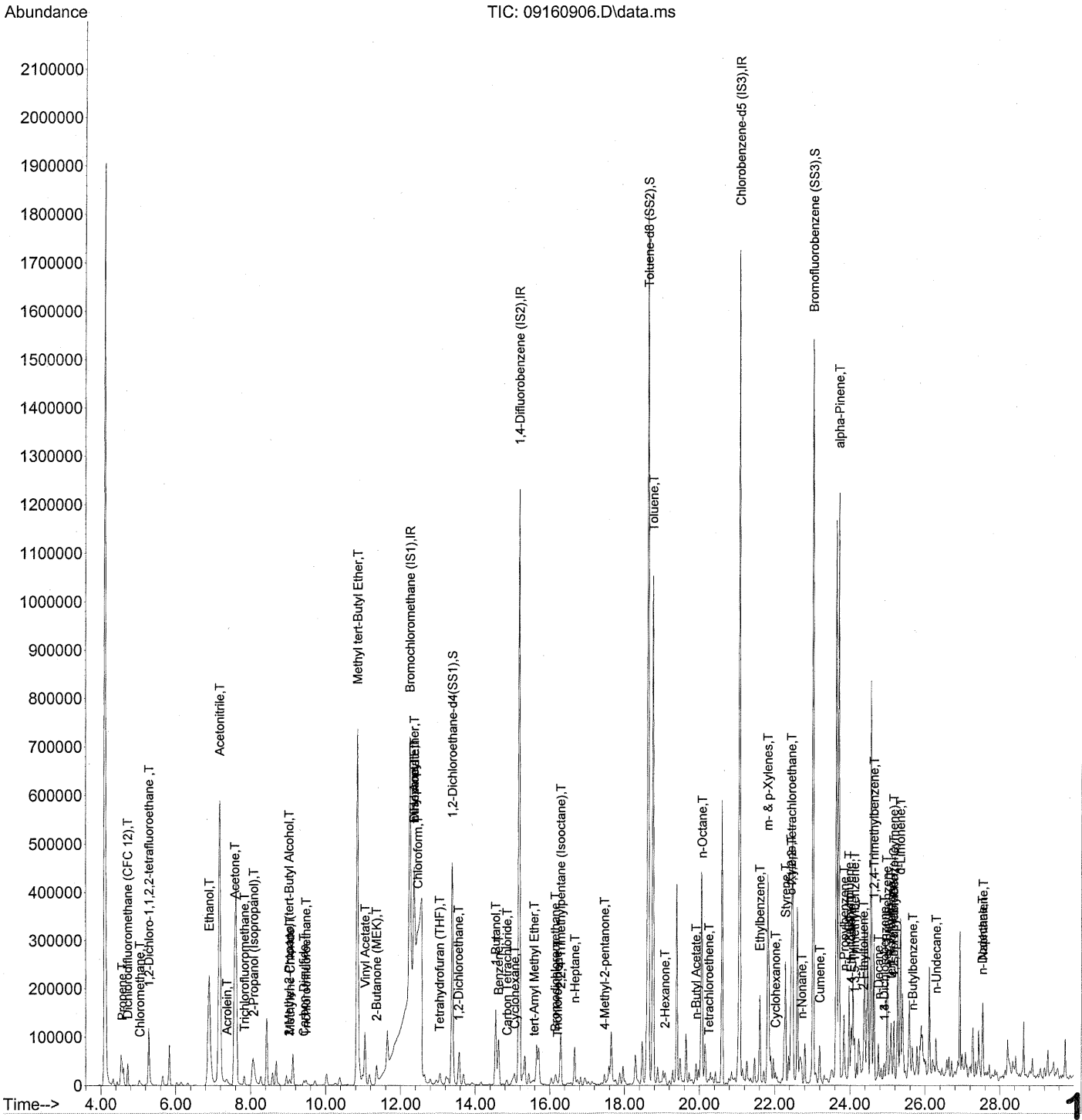
9/22/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651 ✓
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651 ✓
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

W 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	345482	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.17	114	1648864	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	701501	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	462197	24.276	ng	-0.03
Spiked Amount	25.000			Recovery =	97.12%	✓
57) Toluene-d8 (SS2)	18.63	98	1719363	24.485	ng	-0.01
Spiked Amount	25.000			Recovery =	97.96%	✓
73) Bromofluorobenzene (SS3)	23.02	174	682000	27.103	ng	0.00
Spiked Amount	25.000			Recovery =	108.40%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	16284m	1.157	ng	
3) Dichlorodifluoromethan...	4.73	85	48201	1.792	ng	100
4) Chloromethane	5.04	50	5753	0.261	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1191	0.074	ng	# 51
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	234	N.D.		
8) Bromomethane	6.20	94	430	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.89	45	668599	65.556	ng	99
11) Acetonitrile	7.17	41	1212982	47.024	ng	100
12) Acrolein	7.37	56	11576	1.526	ng	95
13) Acetone	7.58	58	253481	24.670	ng	88
14) Trichlorofluoromethane	7.83	101	21646	0.869	ng	98
15) 2-Propanol (Isopropanol)	8.08	45	140664	3.975	ng	M 98
16) Acrylonitrile	8.37	53	545	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.02	59	6297	0.172	ng	# 83
19) Methylene Chloride	9.04	84	4148	0.265	ng	# 76
20) 3-Chloro-1-propene (Al...	9.20	41	719	N.D.		
21) Trichlorotrifluoroethane	9.48	151	5582	0.455	ng	85
22) Carbon Disulfide	9.41	76	24206	0.445	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.84	63	1129	N.D.		
25) Methyl tert-Butyl Ether	10.84	73	13510	0.342	ng	FR 72
26) Vinyl Acetate	11.05	86	3696	1.195	ng	# 1
27) 2-Butanone (MEK)	11.36	72	19481	1.974	ng	# 1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.36	87	749	0.065	ng	# 1
30) Ethyl Acetate	12.36	61	24086m	4.807	ng	
31) n-Hexane	12.36	57	82539	4.159	ng	94

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	18789	0.772 ng		99
34) Tetrahydrofuran (THF)	13.04	72	1763	0.193 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	6520	0.388 ng		99
38) 1,1,1-Trichloroethane	13.94	97	1018	N.D.		
39) Isopropyl Acetate	14.51	61	376	N.D.		
40) 1-Butanol	14.54	56	119711	8.047 ng		84
41) Benzene	14.62	78	130441	2.218 ng		99
42) Carbon Tetrachloride	14.85	117	7054	0.399 ng		99
43) Cyclohexane	15.05	84	13757	0.641 ng		91
44) tert-Amyl Methyl Ether	15.58	73	9663	0.235 ng	#	56
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.14	83	5121	0.281 ng	#	60
47) Trichloroethene	16.20	130	1054	0.060 ng	nc	91
48) 1,4-Dioxane	16.19	88	276	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	135963	2.295 ng		97
50) Methyl Methacrylate	16.48	100	280	N.D.		
51) n-Heptane	16.66	71	25607	1.706 ng		93
52) cis-1,3-Dichloropropene	17.43	75	55	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	8096	0.617 ng		89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	998977	15.240 ng		99
59) 2-Hexanone	19.08	43	19085	0.604 ng		90
60) Dibromochloromethane	19.31	129	53	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	28414	0.785 ng		79
63) n-Octane	20.07	57	15944	1.296 ng		97
64) Tetrachloroethene	20.25	166	2950	0.146 ng		96
65) Chlorobenzene	21.12	112	191	N.D.		
66) Ethylbenzene	21.60	91	175827	2.443 ng		97
67) m- & p-Xylenes	21.82	91	446046	7.928 ng		95
68) Bromoform	21.92	173	55	N.D.		
69) Styrene	22.29	104	45396	0.982 ng		95
70) o-Xylene	22.44	91	153457	2.670 ng		78
71) n-Nonane	22.71	43	13269	0.476 ng		85
72) 1,1,2,2-Tetrachloroethane	22.45	83	1912	0.077 ng	#	19
74) Cumene	23.20	105	45760	0.582 ng		97
75) alpha-Pinene	23.70	93	646123	17.475 ng		95
76) n-Propylbenzene	23.84	91	45230	0.492 ng	#	62
77) 3-Ethyltoluene	23.97	105	125810	1.692 ng		96
78) 4-Ethyltoluene	24.03	105	64483	0.878 ng		99
79) 1,3,5-Trimethylbenzene	24.12	105	46135	0.755 ng		99

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

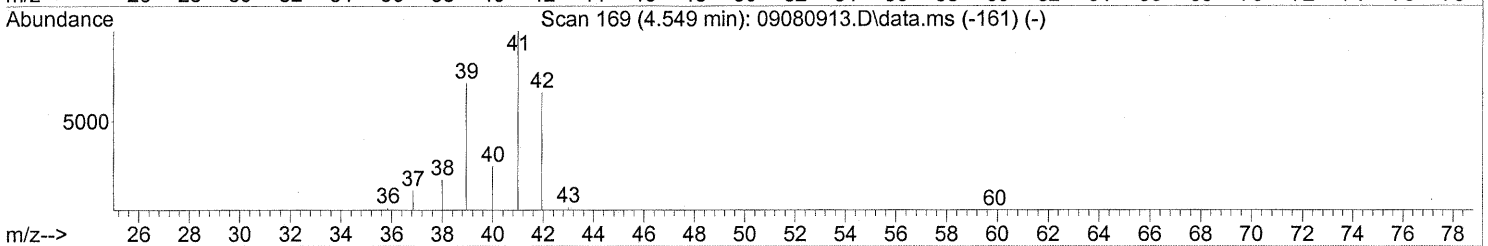
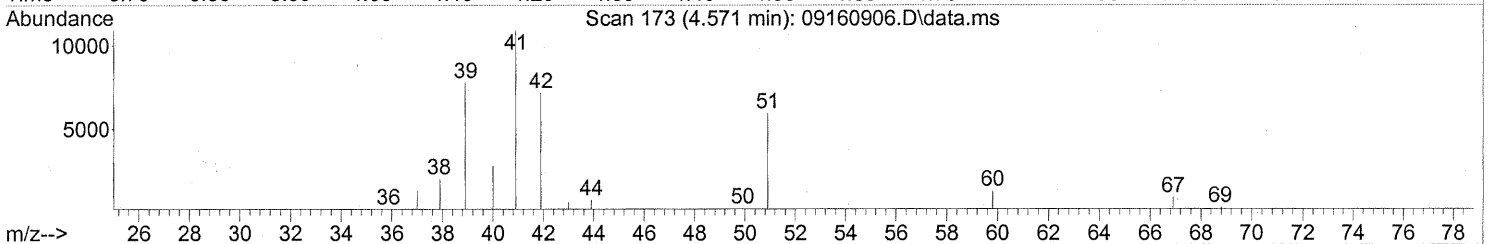
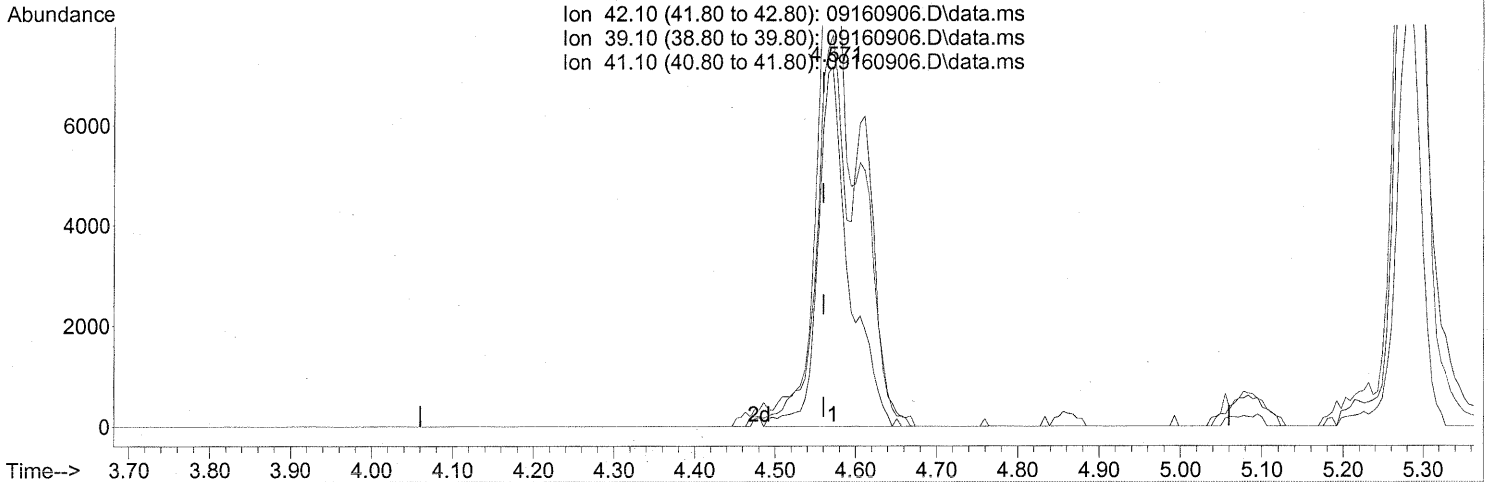
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	1101	N.D.		
81) 2-Ethyltoluene	24.36	105	45991	0.590 ng		90
82) 1,2,4-Trimethylbenzene	24.63	105	172712	2.650 ng		92
83) n-Decane	24.75	57	29542	0.866 ng		82
84) Benzyl Chloride	24.80	91	496	N.D.		
85) 1,3-Dichlorobenzene	24.91	146	2414	0.064 ng		90
86) 1,4-Dichlorobenzene	24.91	146	2414	0.061 ng		91
87) sec-Butylbenzene	24.97	105	4763	0.056 ng	#	1
88) 4-Isopropyltoluene (p-...	25.16	119	31418	0.380 ng		95
89) 1,2,3-Trimethylbenzene	25.16	105	46461	0.728 ng		97
90) 1,2-Dichlorobenzene	25.33	146	419	N.D.		
91) d-Limonene	25.34	68	89992	3.843 ng		86
92) 1,2-Dibromo-3-Chloropr...	26.29	157	64	N.D.		
93) n-Undecane	26.29	57	26851	0.682 ng		87
94) 1,2,4-Trichlorobenzene	27.40	180	292	N.D.		
95) Naphthalene	27.53	128	111519	1.178 ng		98
96) n-Dodecane	27.52	57	26135	0.674 ng		90
97) Hexachlorobutadiene	27.96	225	184	N.D.		
98) Cyclohexanone	22.02	55	13372	0.551 ng	#	82
99) tert-Butylbenzene	25.09	119	7114	0.111 ng		94
100) n-Butylbenzene	25.67	91	17658	0.270 ng	#	60

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(2) Propene (T)

4.571min (+0.011) 1.36ng

SH

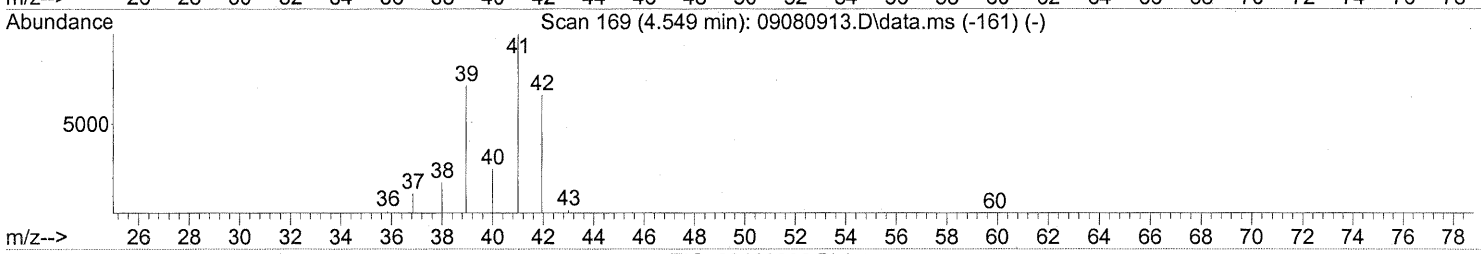
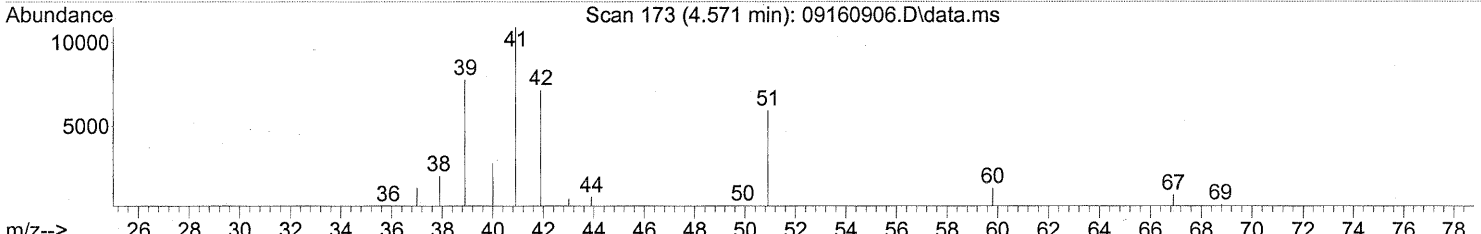
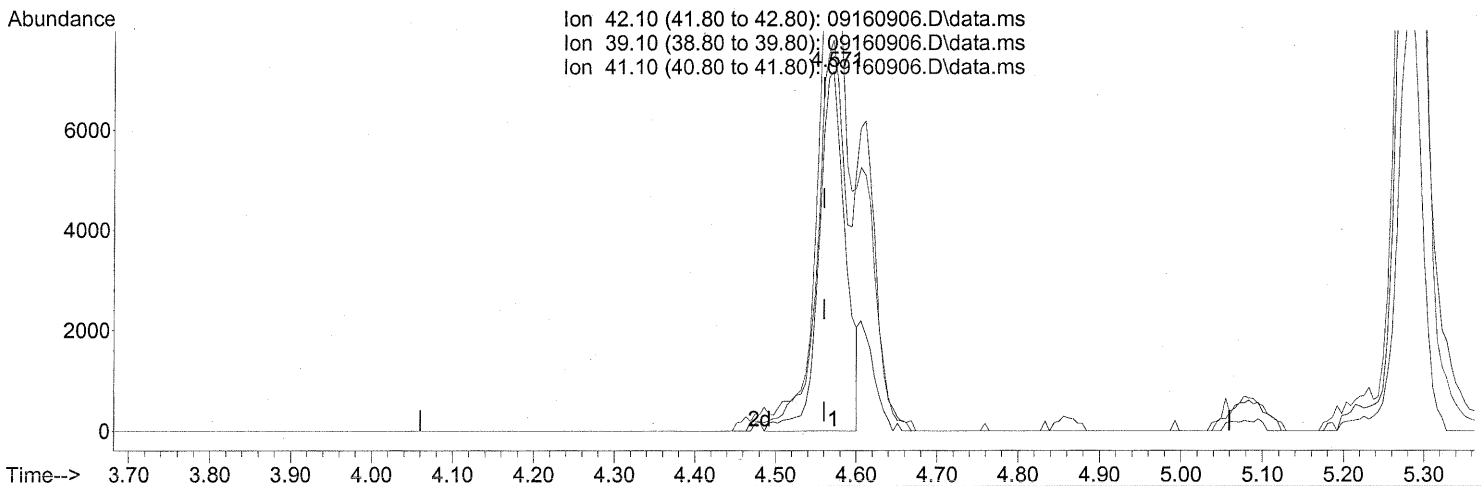
response 19115

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	101.65
41.10	152.10	183.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.571min (+0.011) 1.16ng m

response 16284

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	119.33
41.10	152.10	215.67#
0.00	0.00	0.00

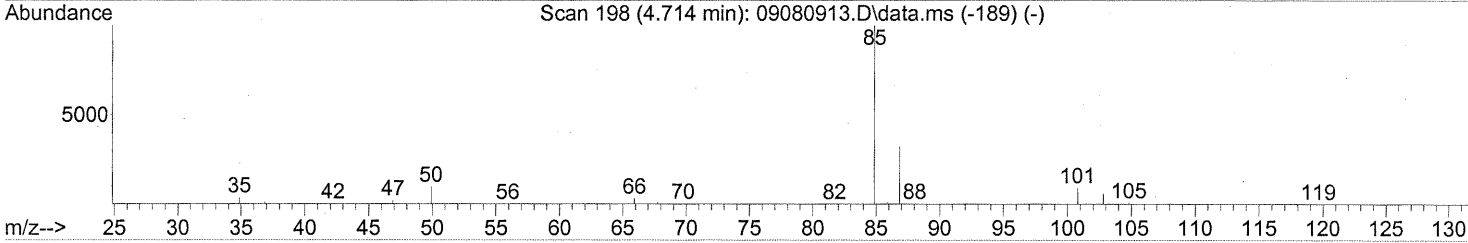
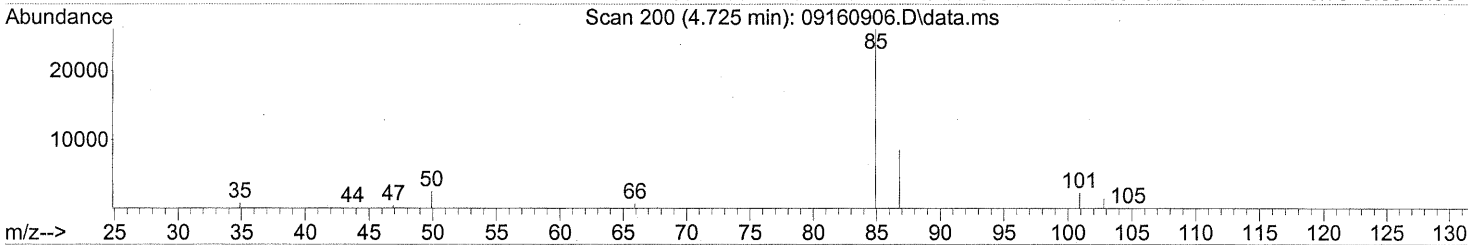
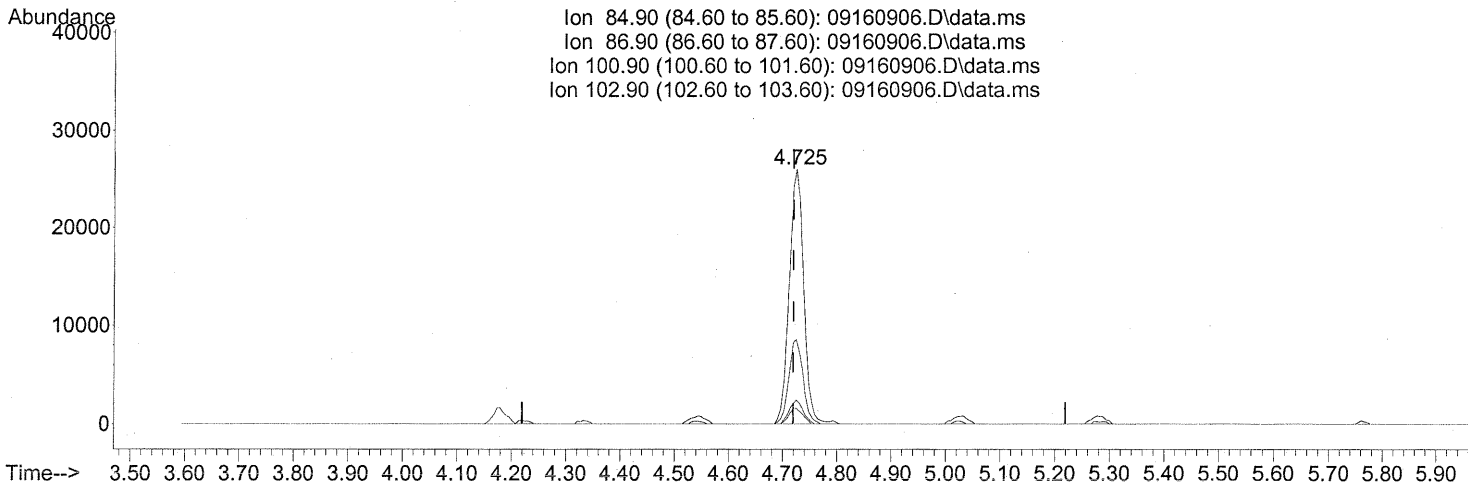
SH → IC
 LH 9/18/09

9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160906.D
Acq On : 16 Sep 2009 12:18
Operator : LH
Sample : P0903145-004 (1000mL)
Misc : Environmental H & E 102651
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160906.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.725min (+0.006) 1.79ng

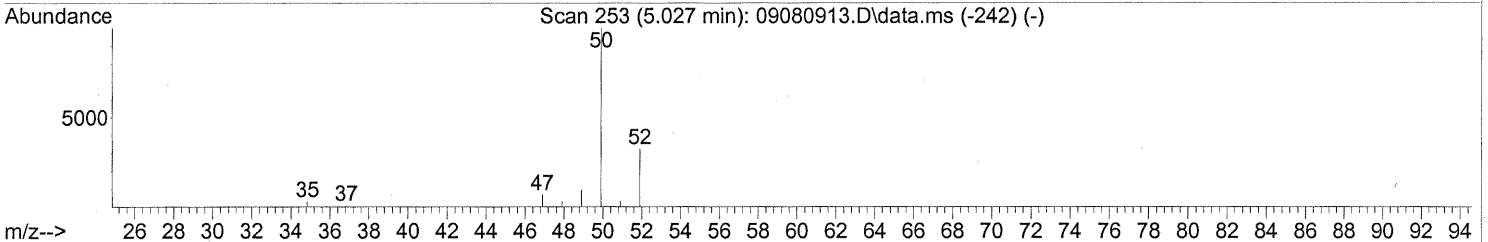
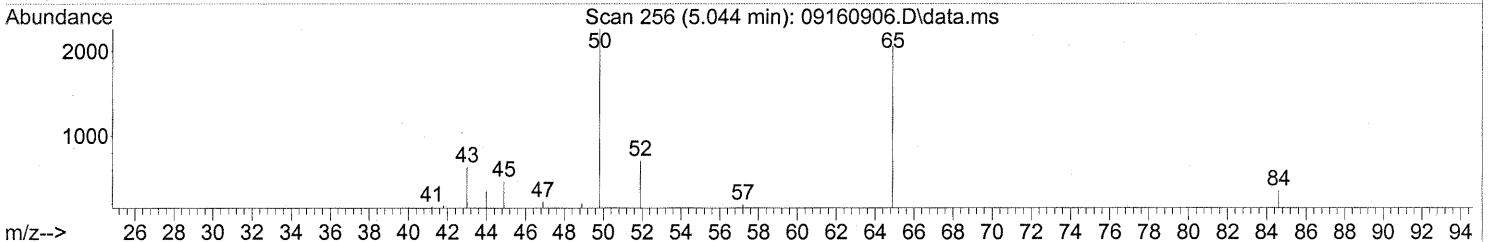
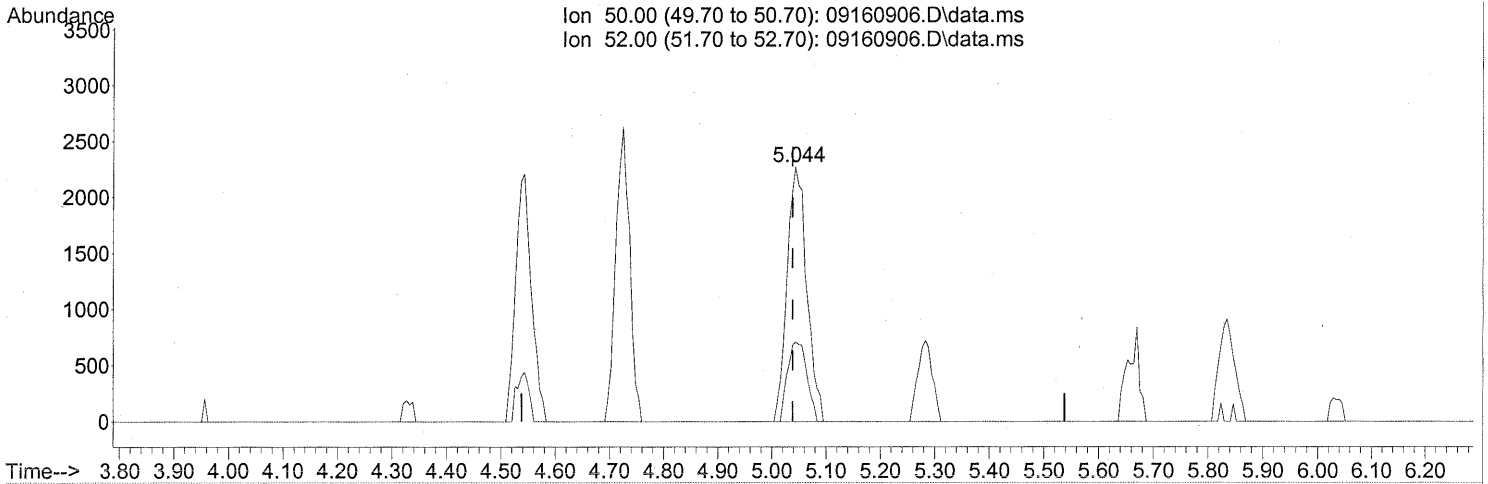
response 48201

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.53
100.90	8.60	8.95
102.90	5.90	5.83

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(4) Chloromethane (T)

5.044min (+0.006) 0.26ng

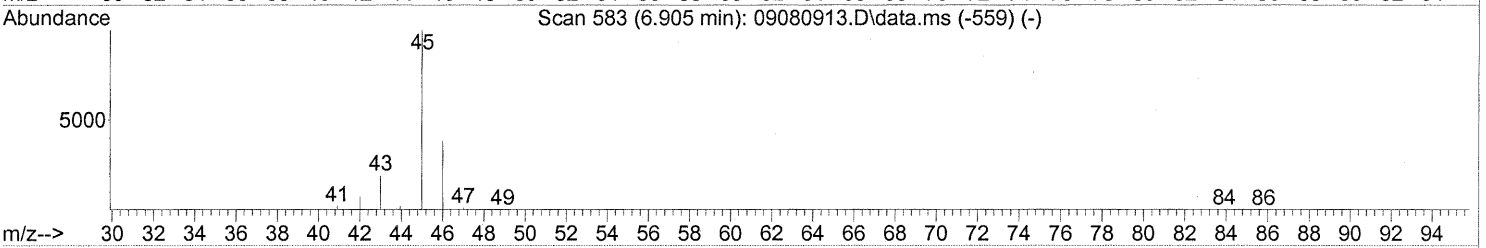
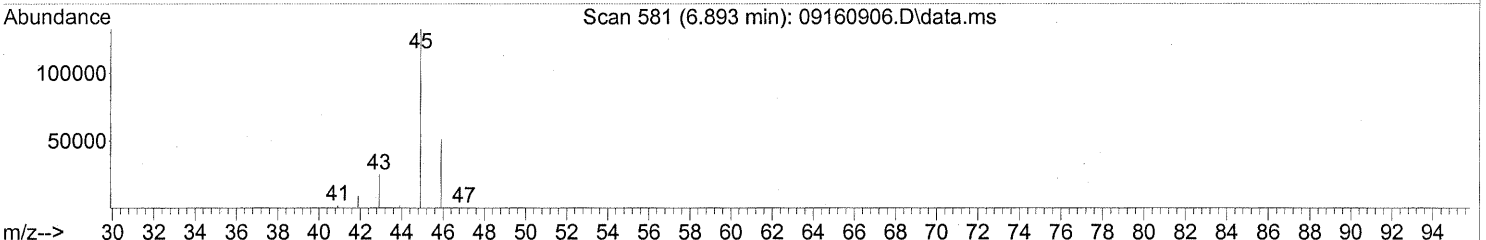
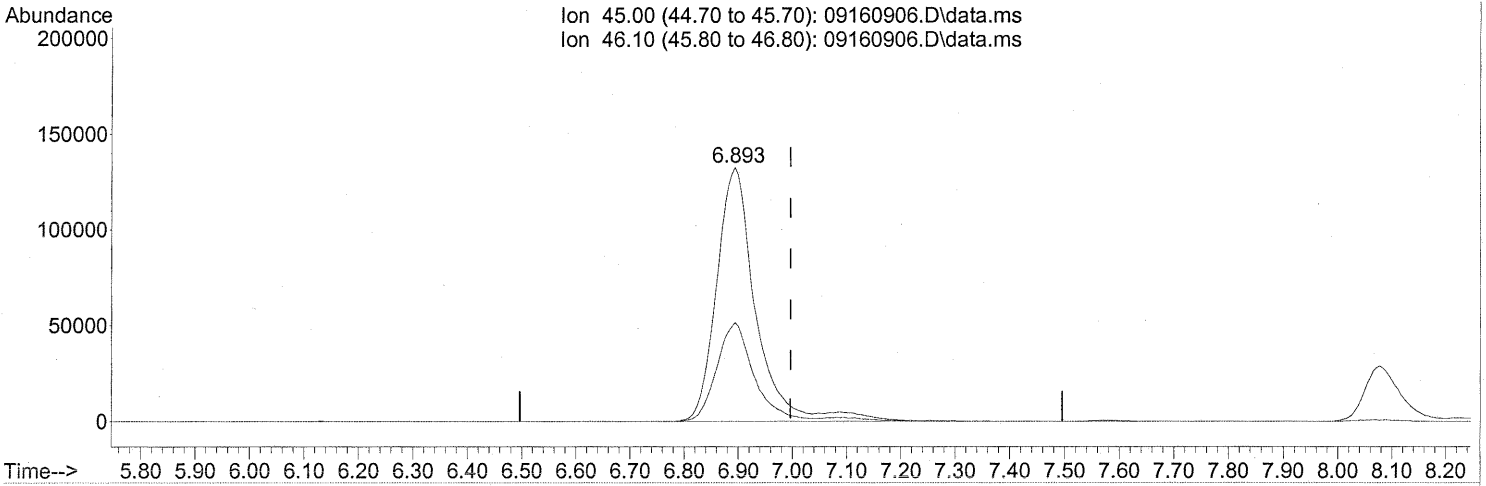
response 5753

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	30.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.893min (-0.102) 65.56ng

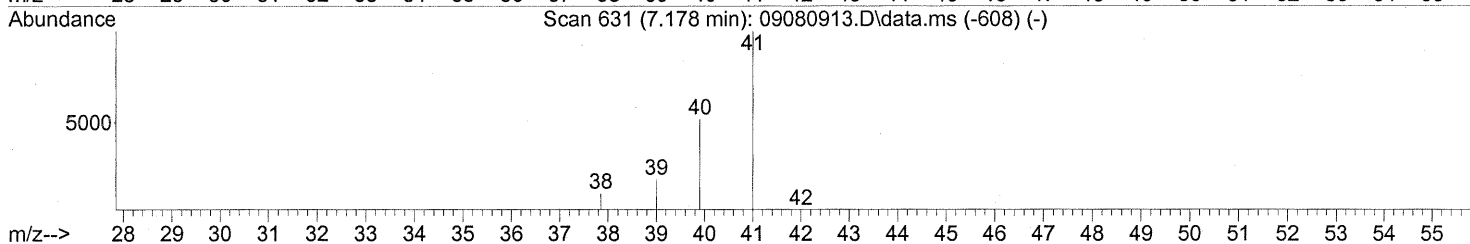
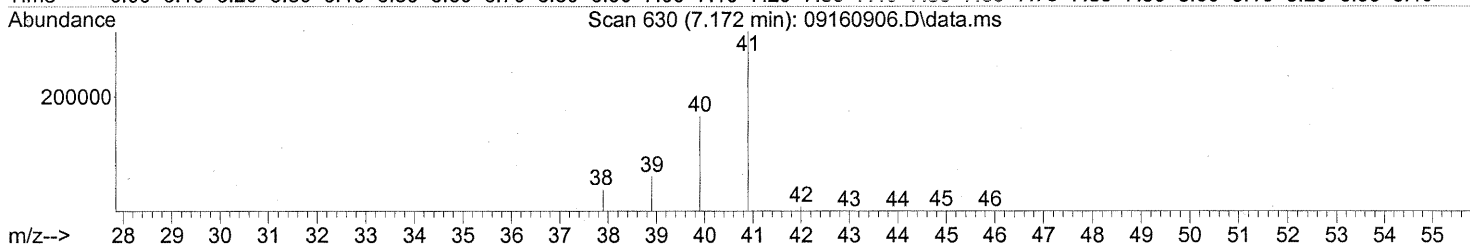
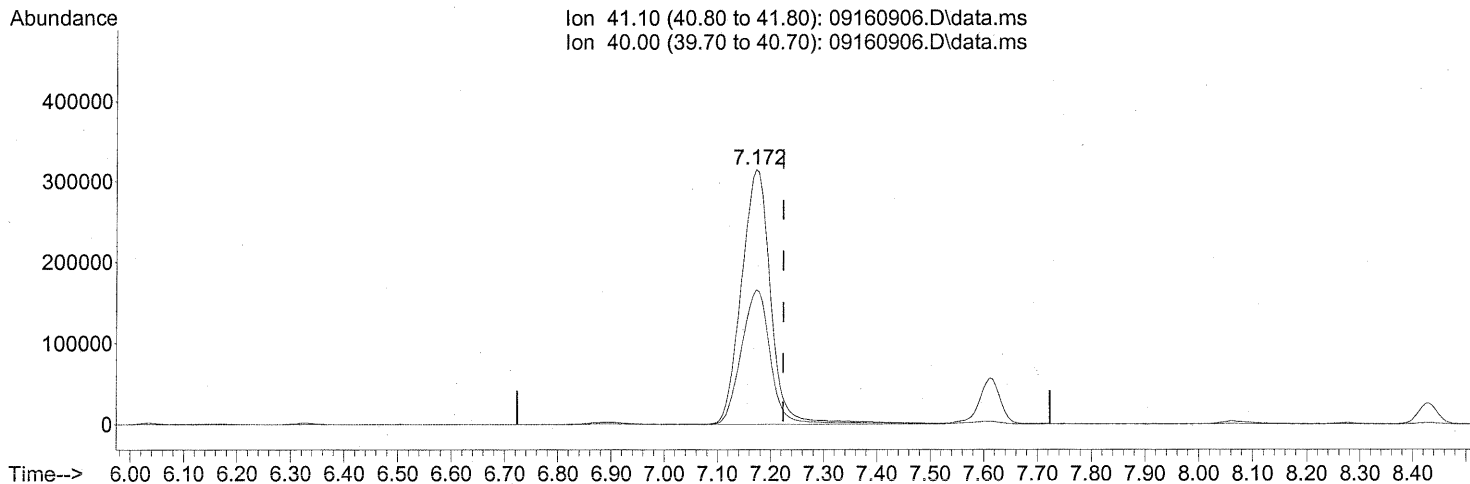
response 668599

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(11) Acetonitrile (T)

7.172min (-0.051) 47.02ng

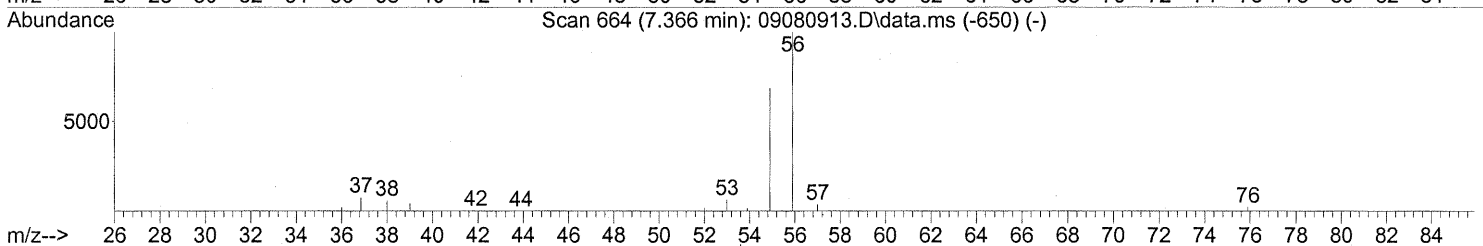
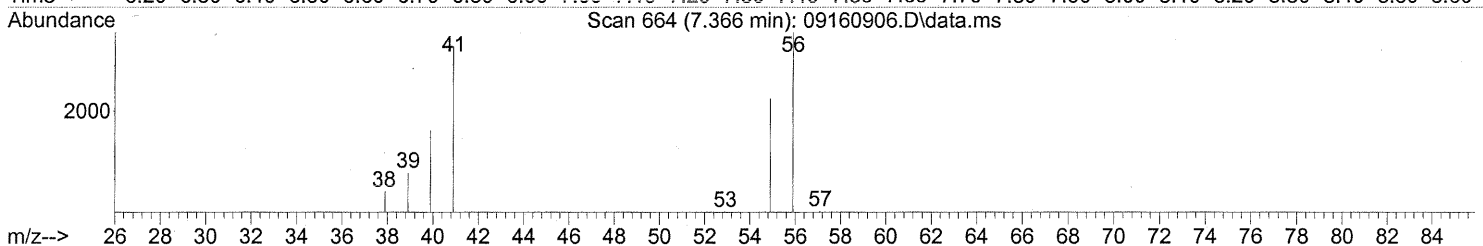
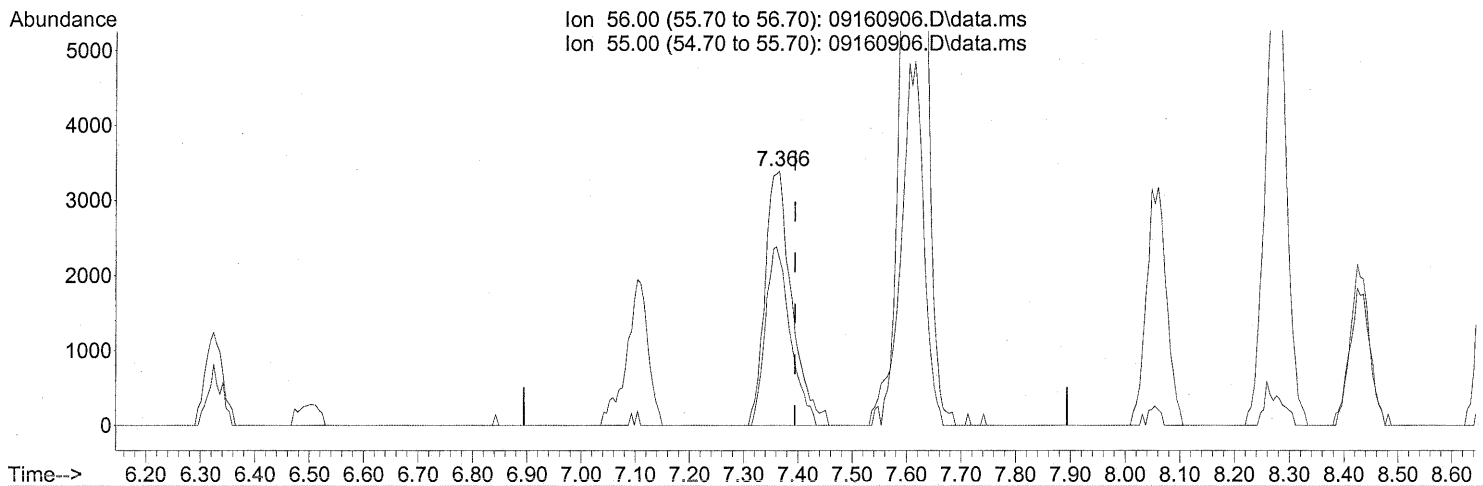
response 1212982

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

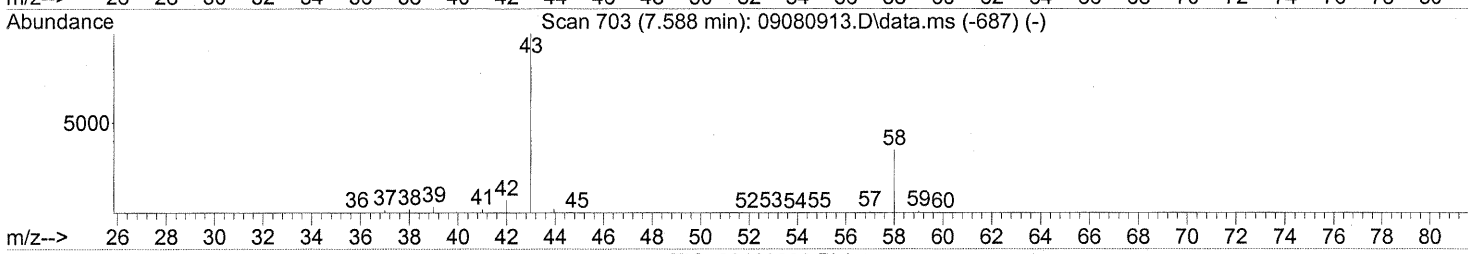
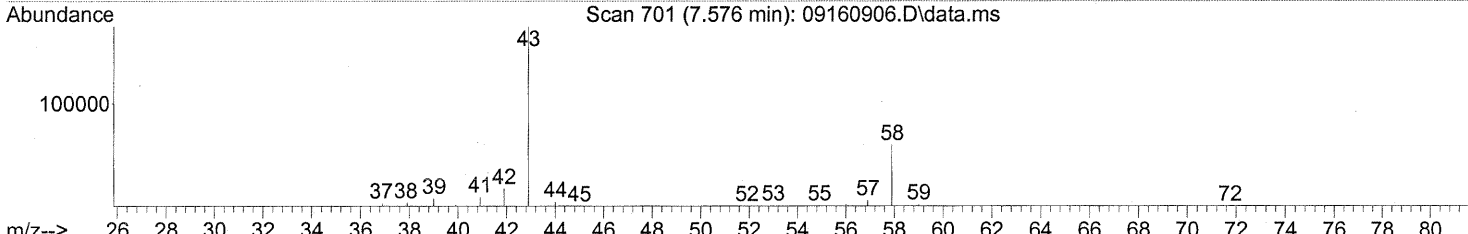
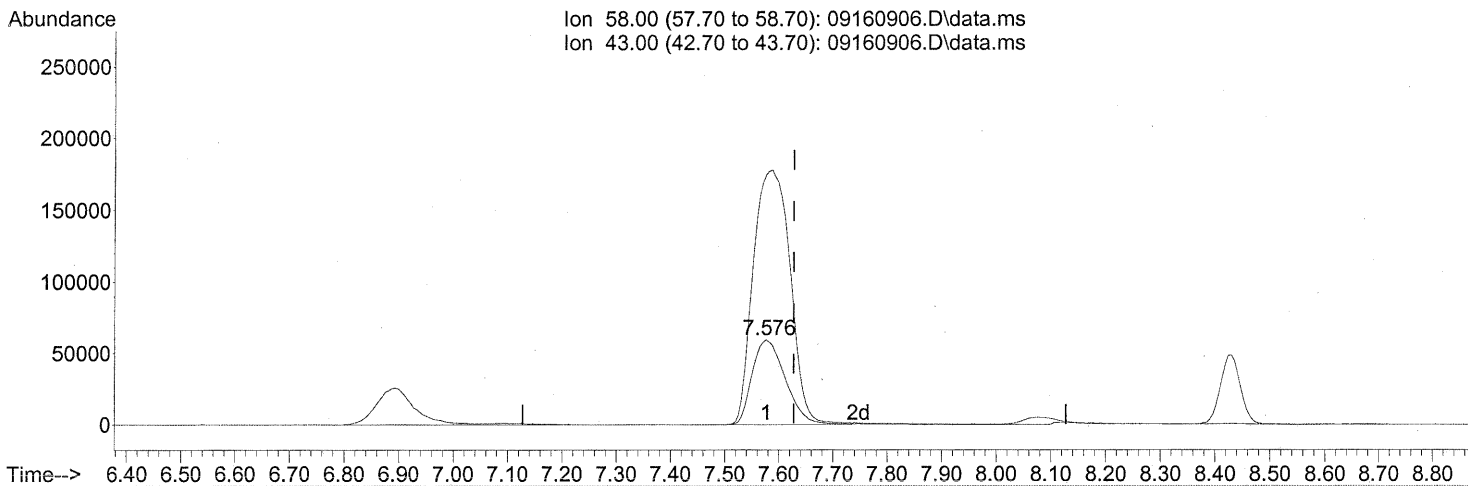
(12) Acrolein (T)
 7.366min (-0.028) 1.53ng
 response 11576

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	65.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.576min (-0.051) 24.67ng

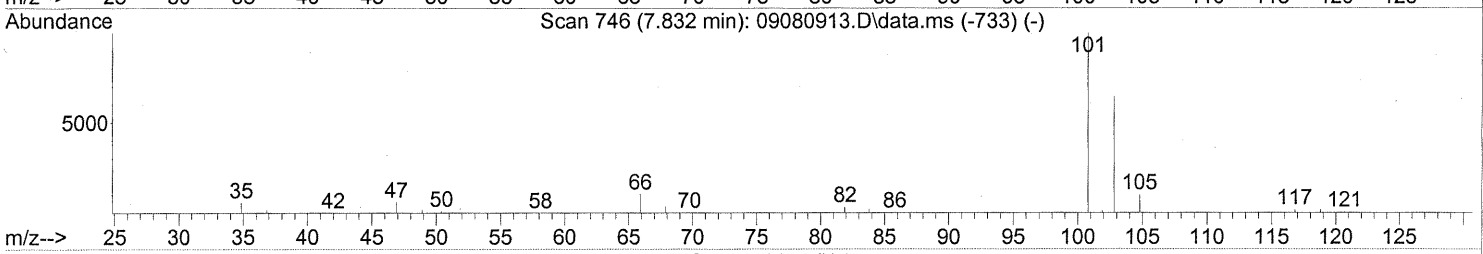
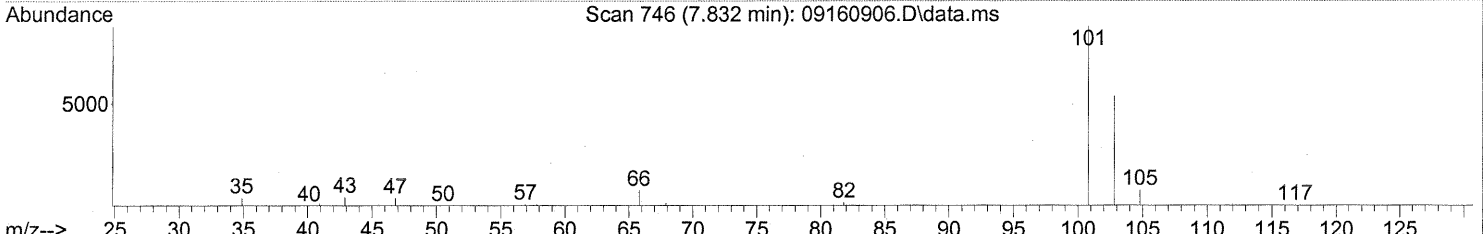
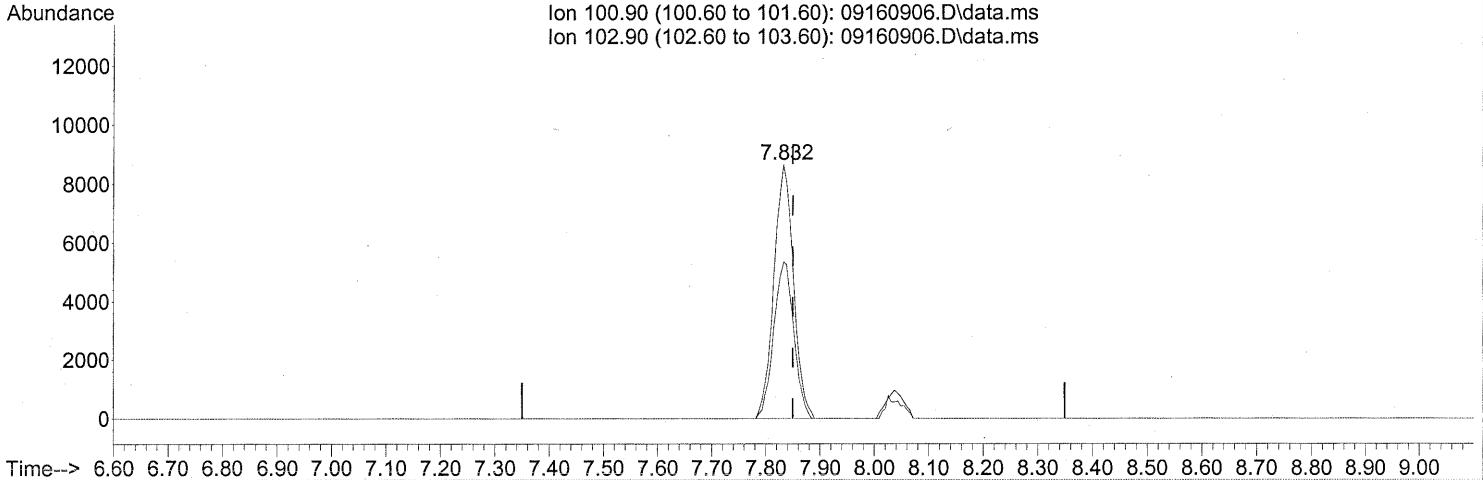
response 253481

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	334.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

7.832min (-0.017) 0.87ng

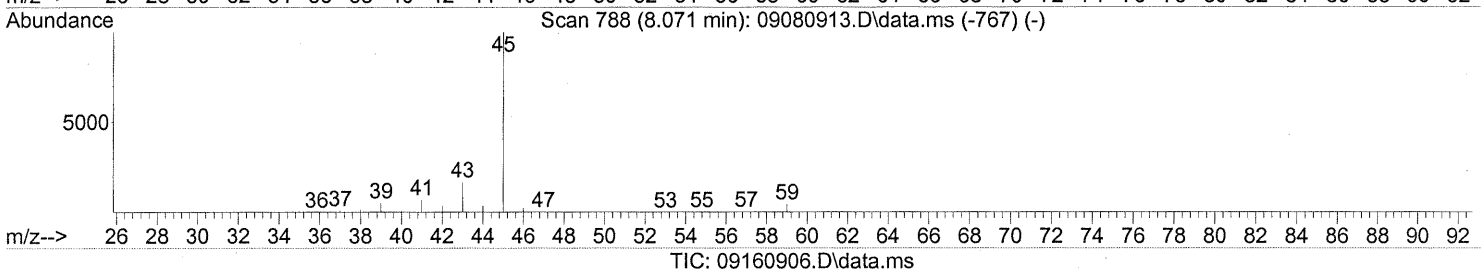
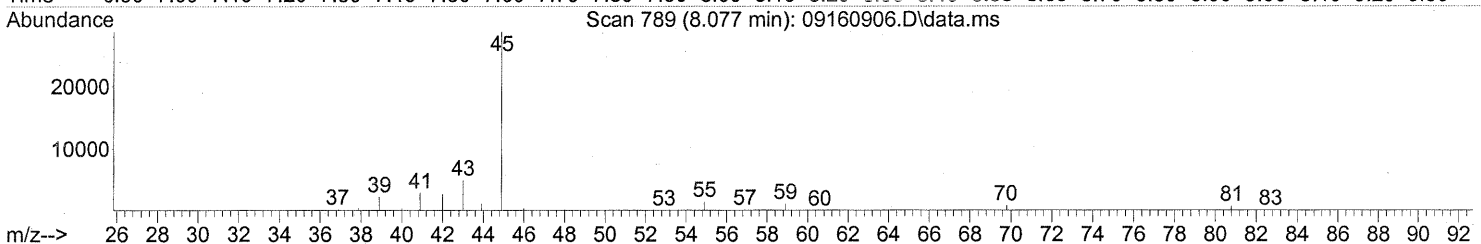
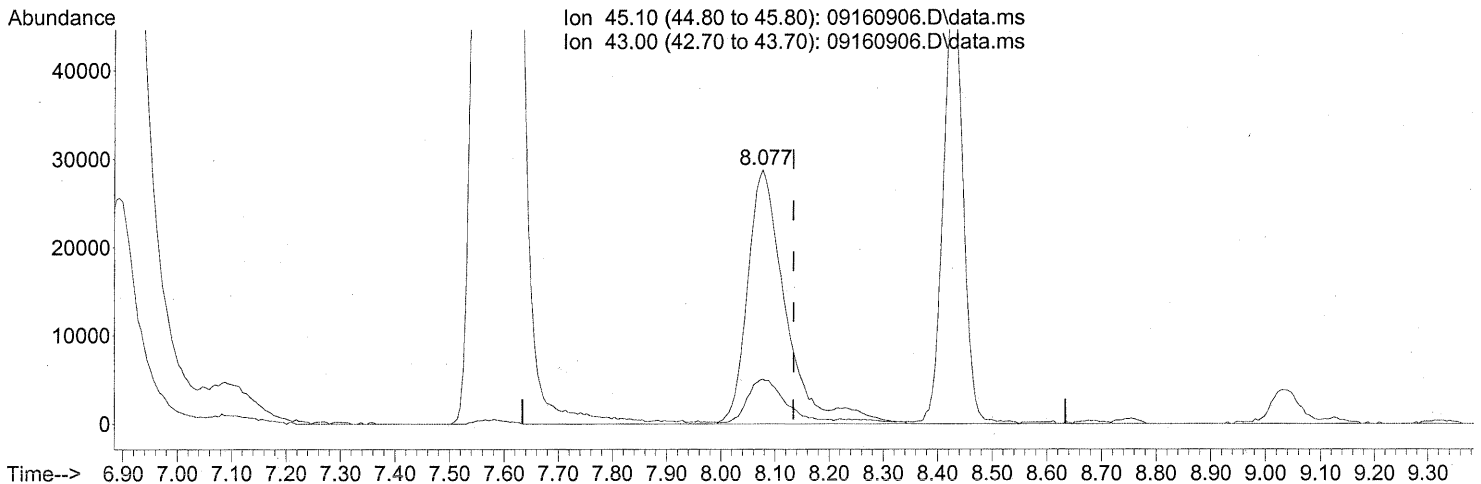
response 21646

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	63.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.077min (-0.057) 3.97ng

M

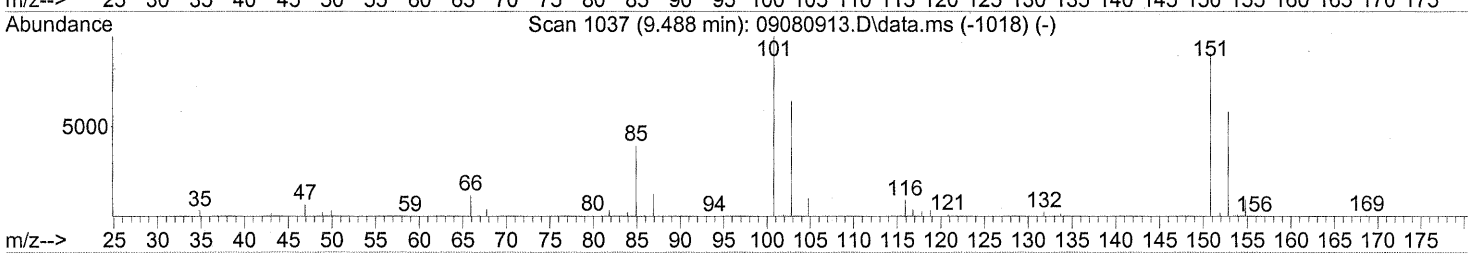
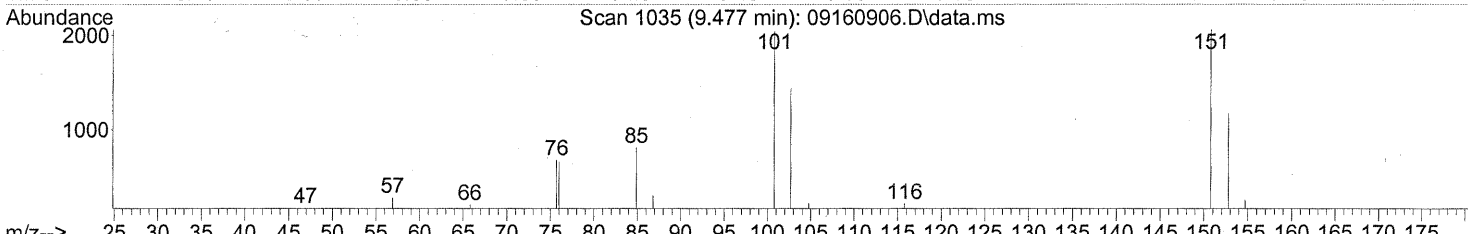
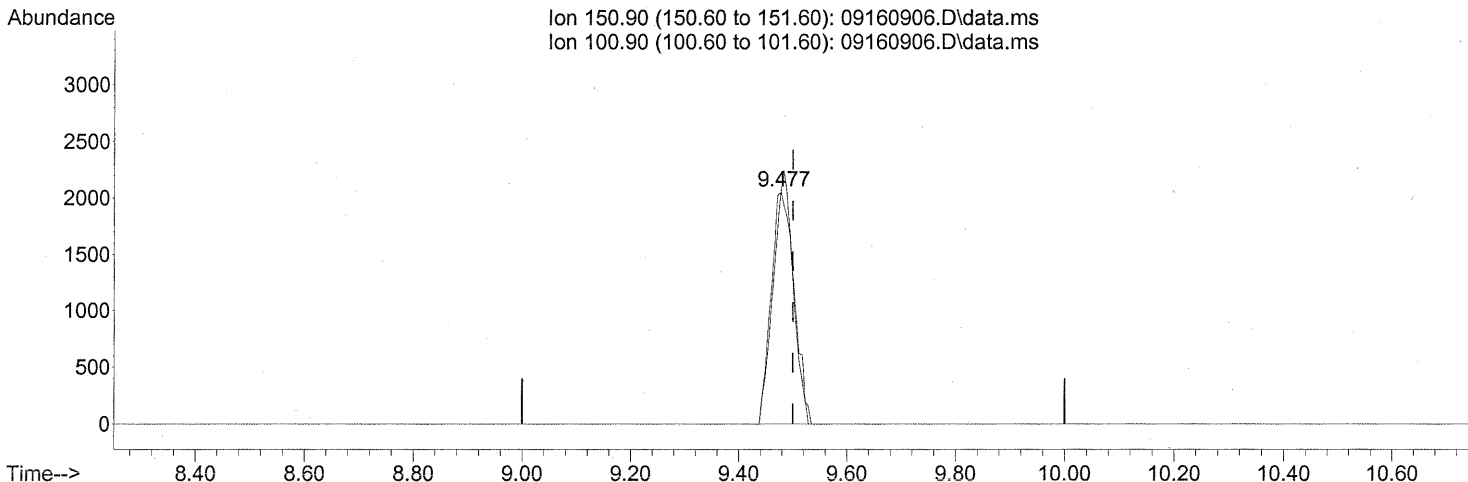
response 140664

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 07:23:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.477min (-0.023) 0.45ng

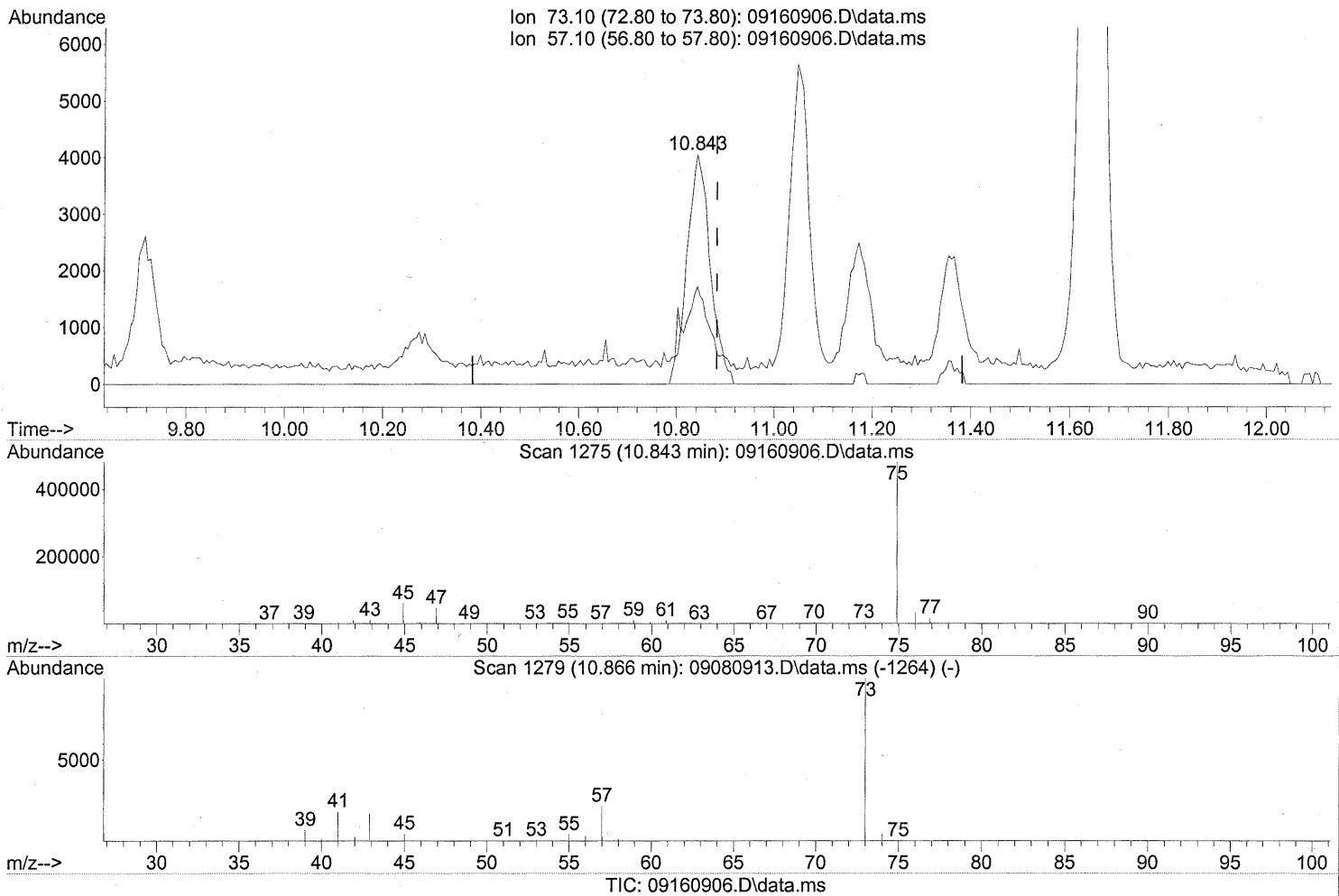
response 5582

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	111.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.843min (-0.040) 0.34ng

response 13510

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	35.91
0.00	0.00	0.00
0.00	0.00	0.00

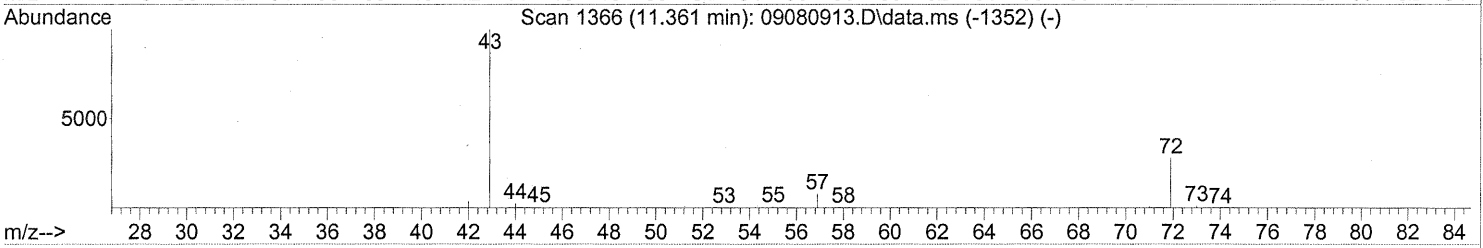
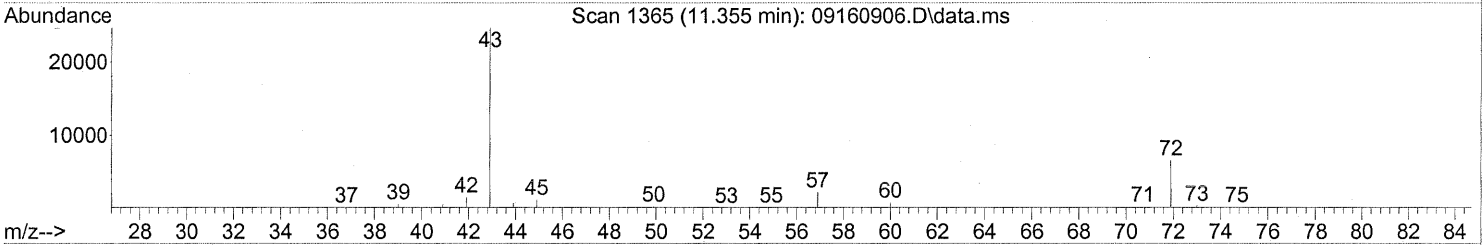
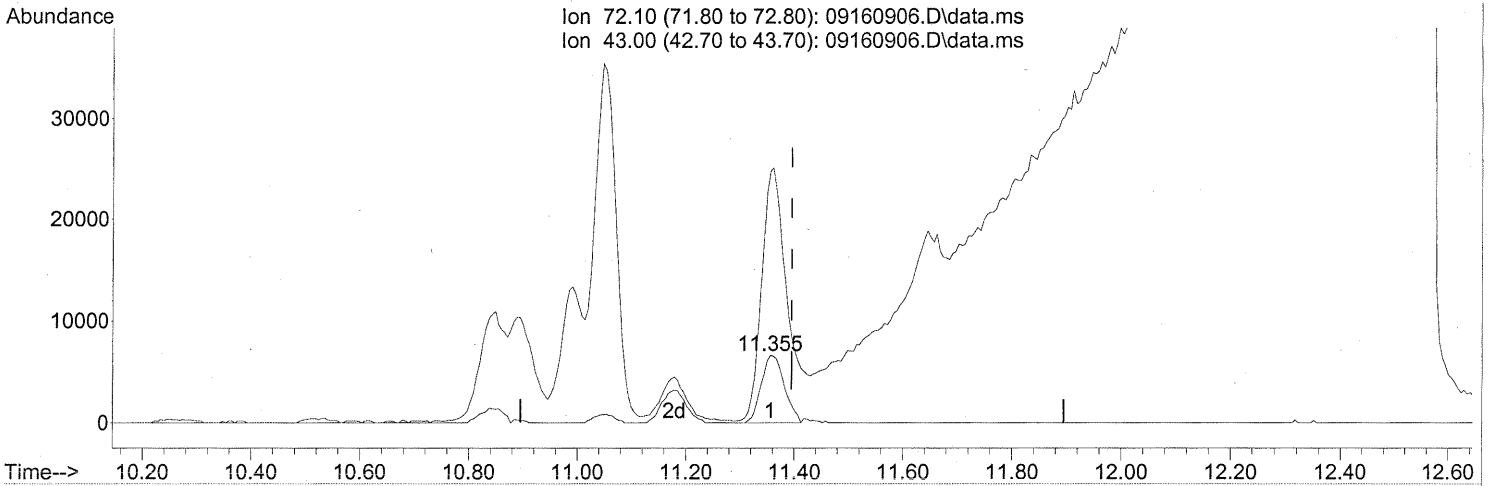
FP UM 9/18/09

10

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:50:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(27) 2-Butanone (MEK) (T)

11.355min (-0.040) 1.97ng

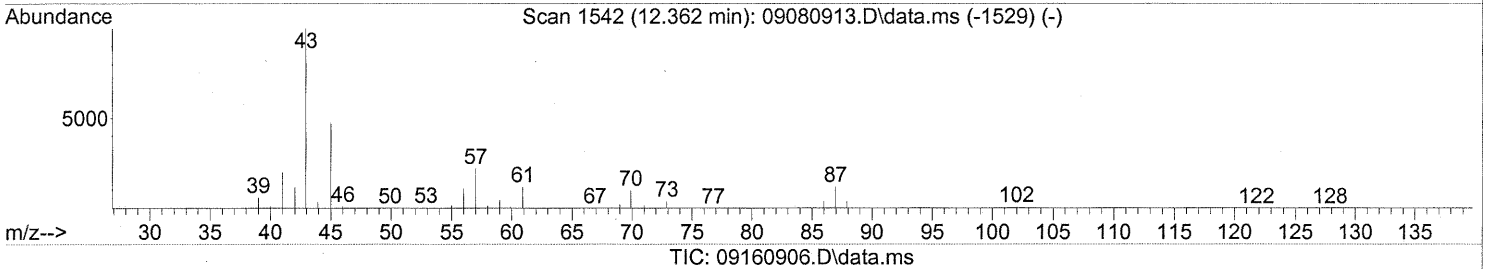
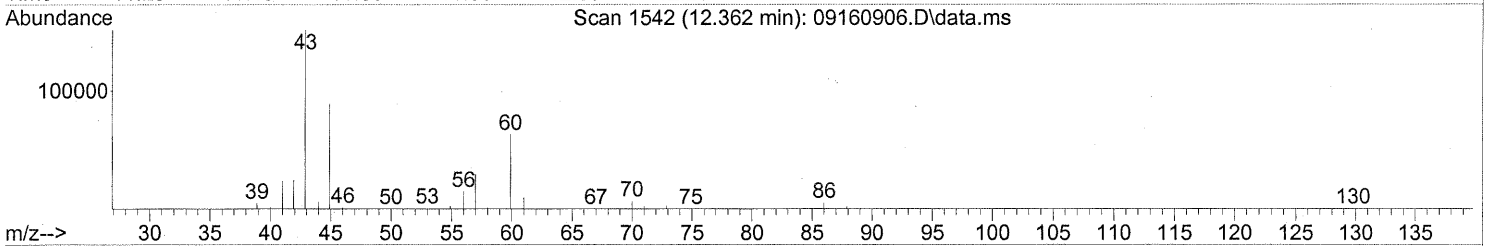
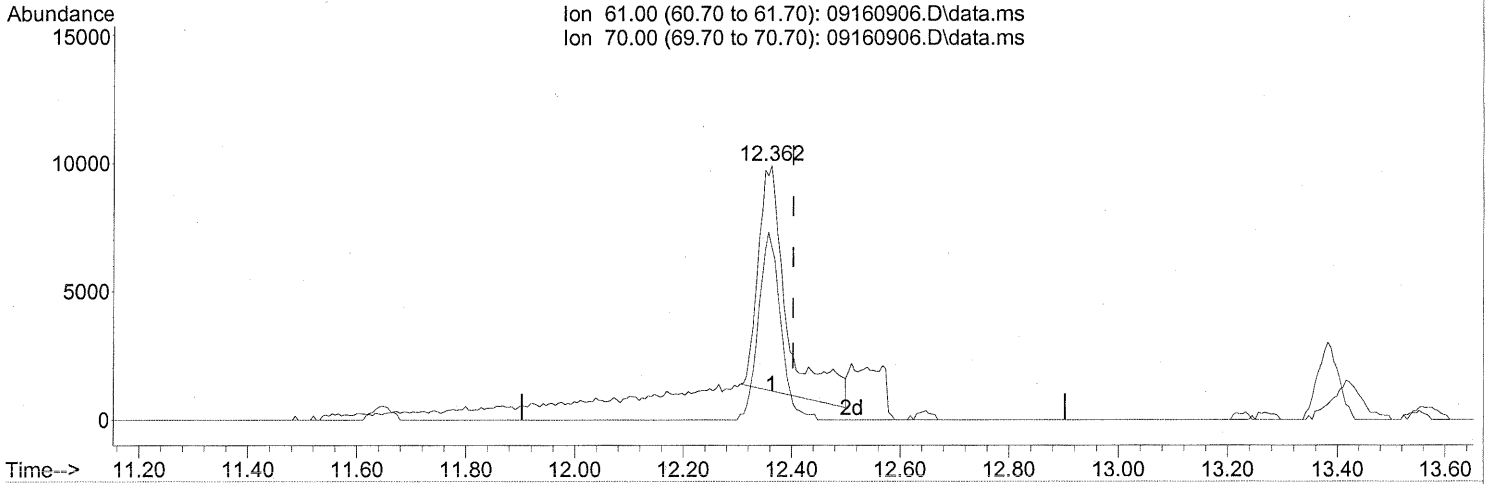
response 19481

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	2140.10#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:50:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)
 12.362min (-0.040) 6.36ng
 response 31866

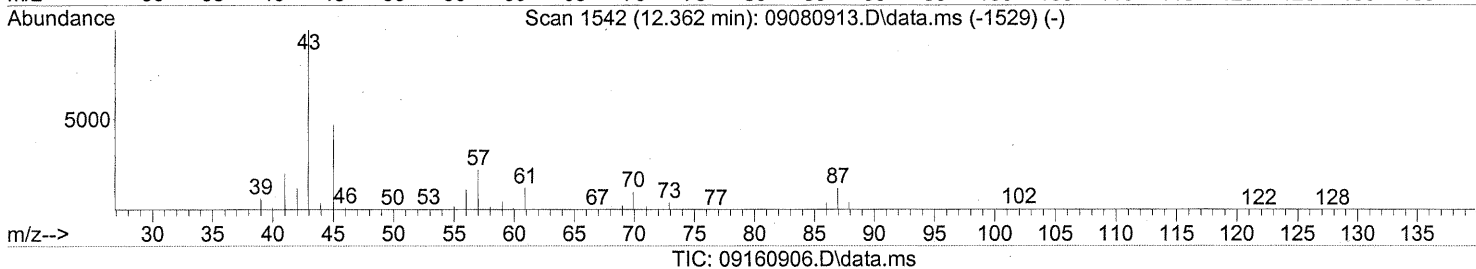
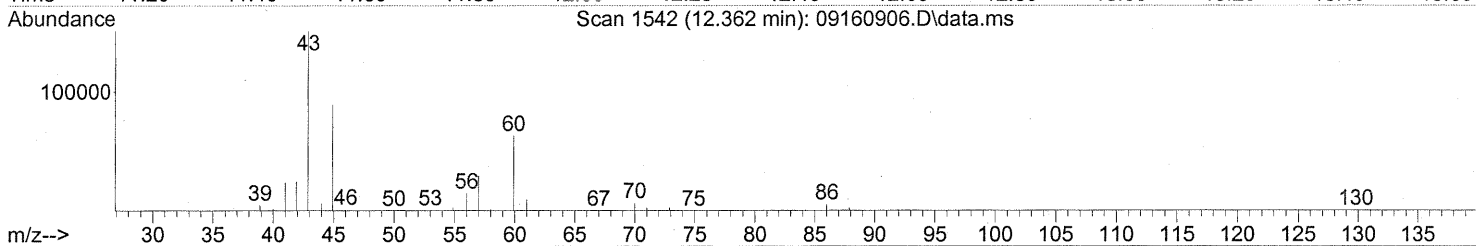
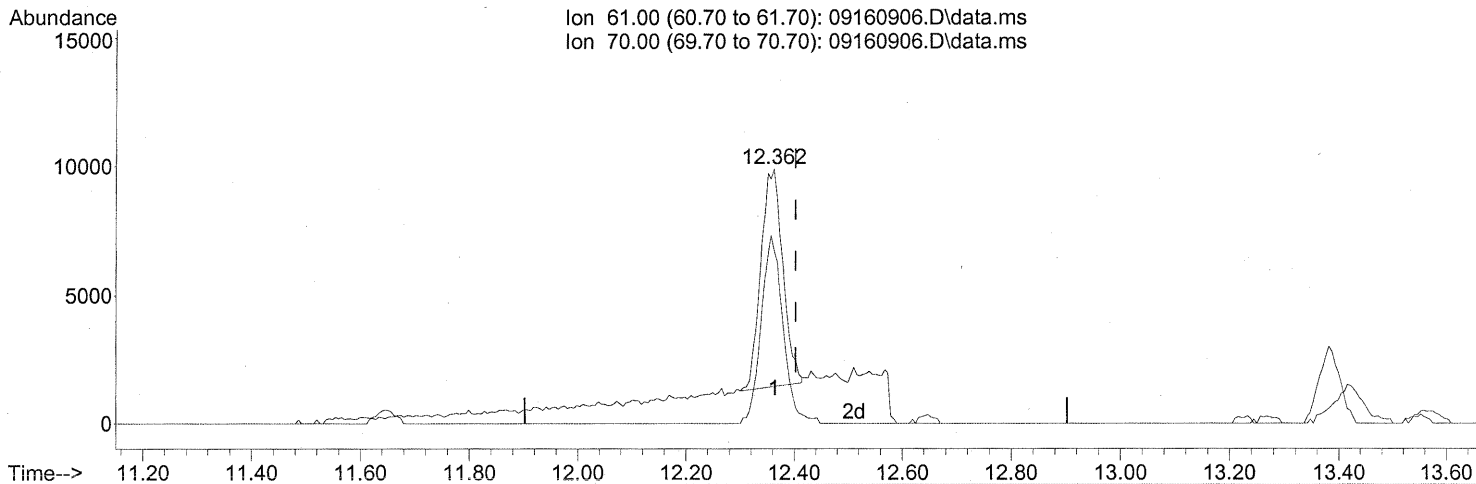
Ion	Exp%	Act%
61.00	100	100
70.00	75.90	65.09
0.00	0.00	0.00
0.00	0.00	0.00

BC

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:50:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)
 12.362min (-0.040) 4.81ng m
 response 24086

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	86.12
0.00	0.00	0.00
0.00	0.00	0.00

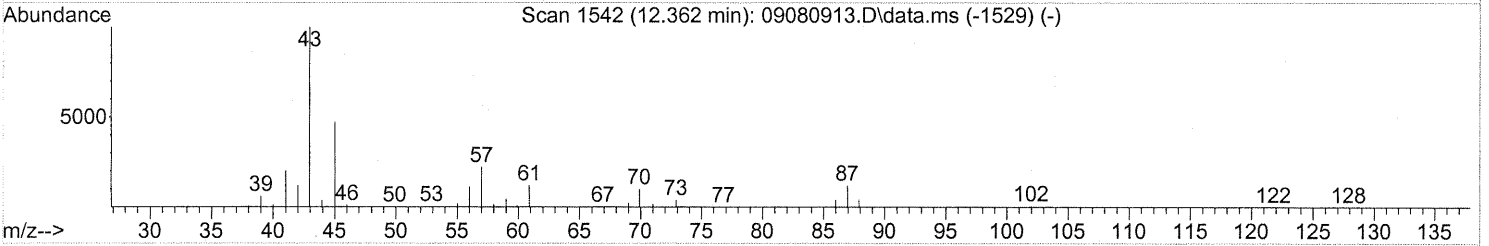
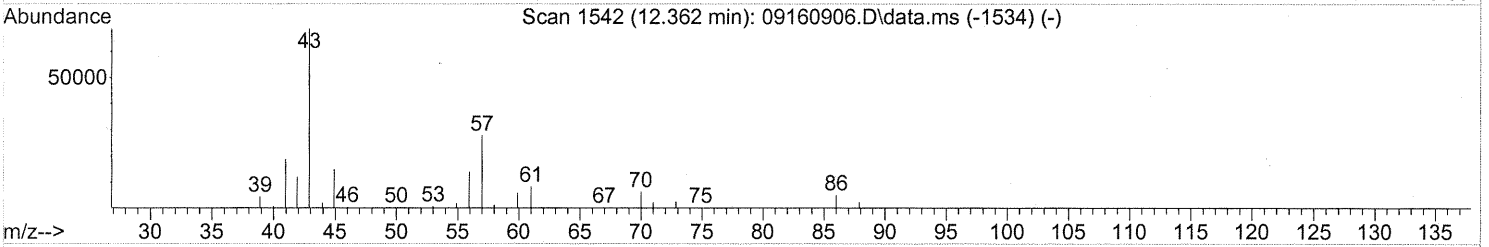
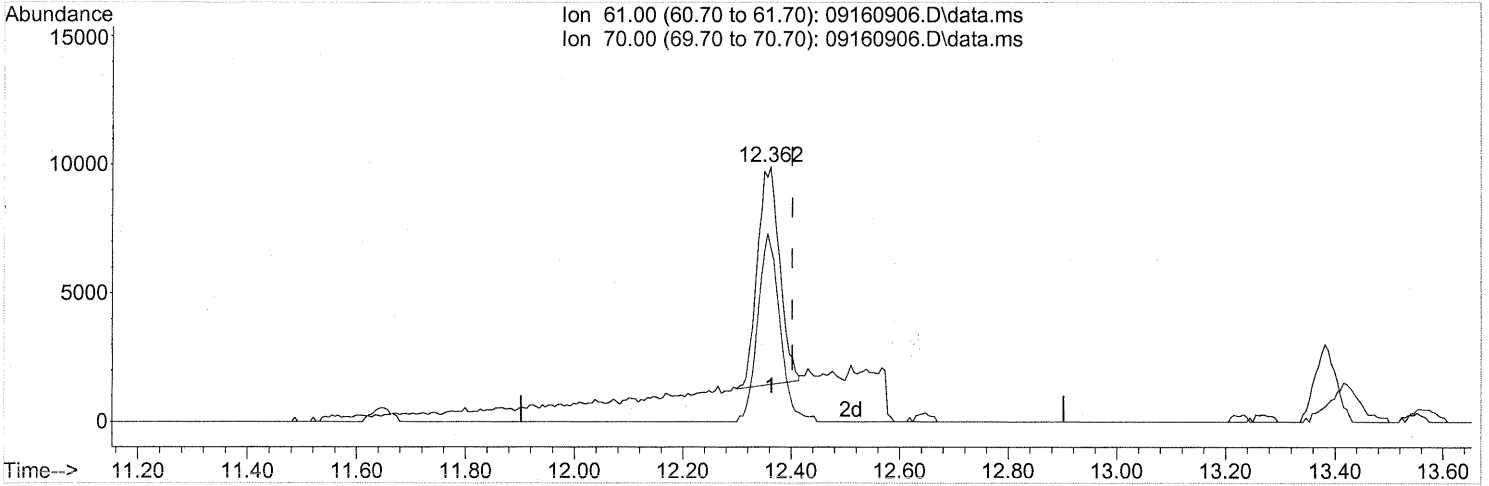
*BC → IC, before
 in 9/18/09*

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:59:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(30) Ethyl Acetate (T)
 12.362min (-0.040) 4.81ng m

response 24086

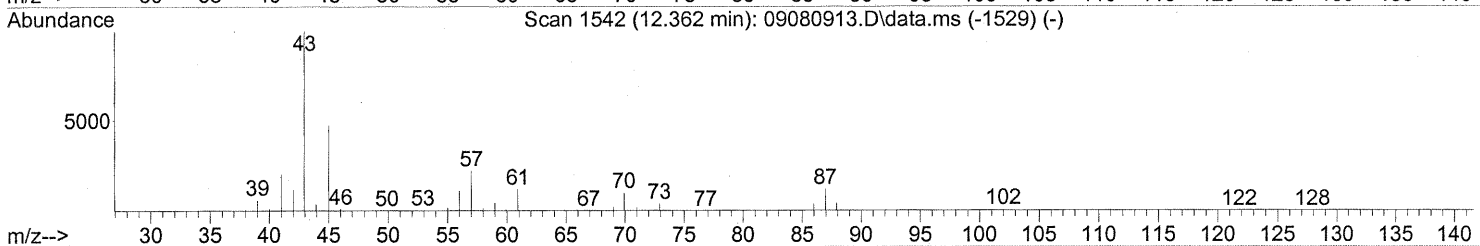
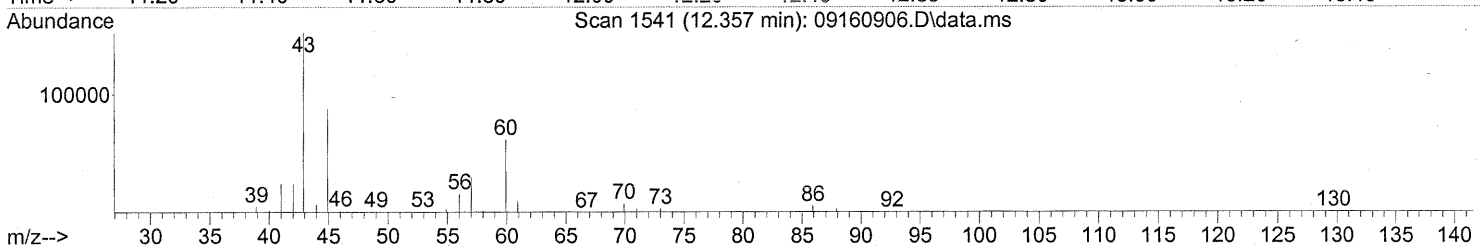
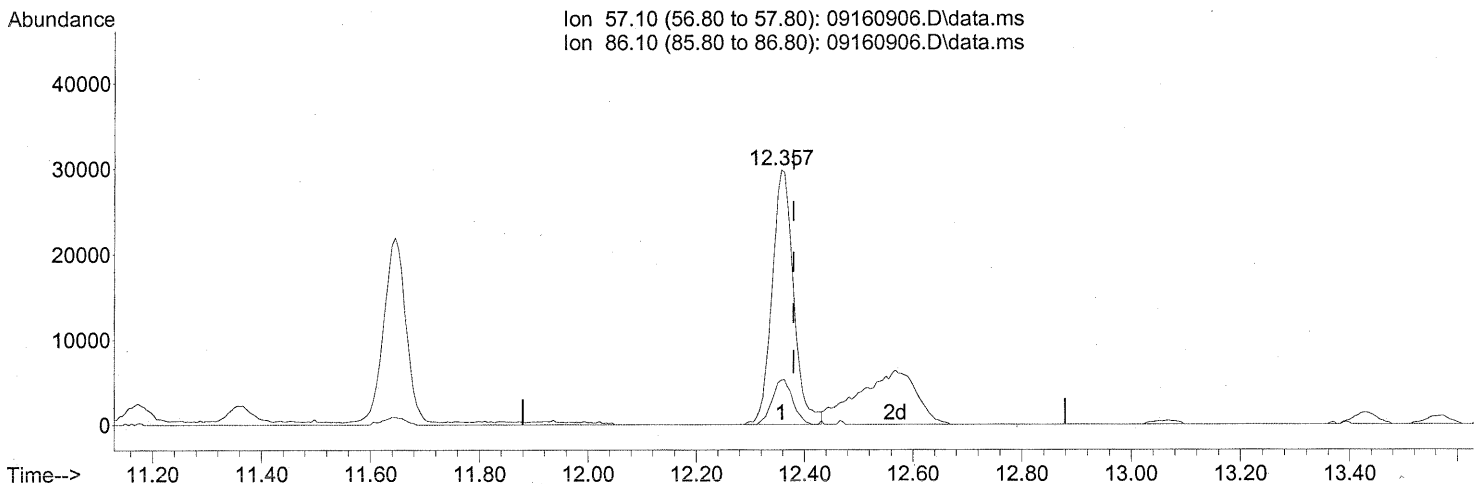
Ion	Exp%	Act%
61.00	100	100
70.00	75.90	86.12
0.00	0.00	0.00
0.00	0.00	0.00

after subst

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.357min (-0.023) 4.16ng

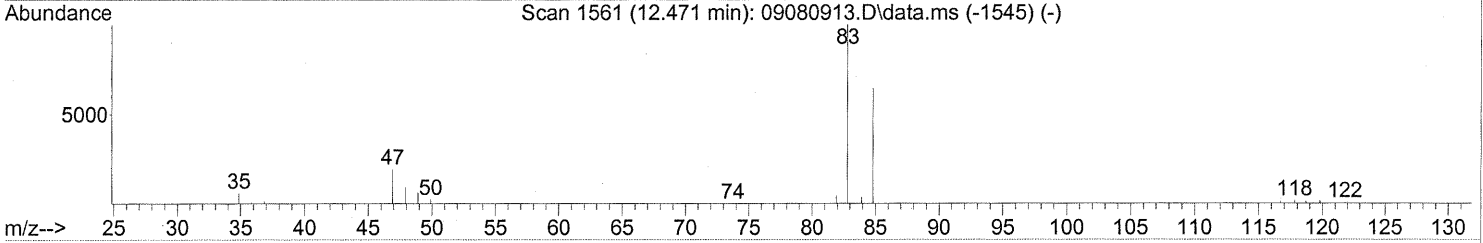
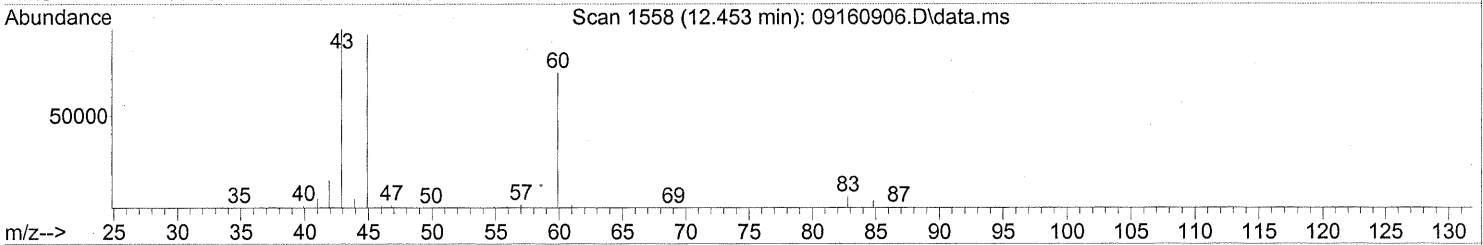
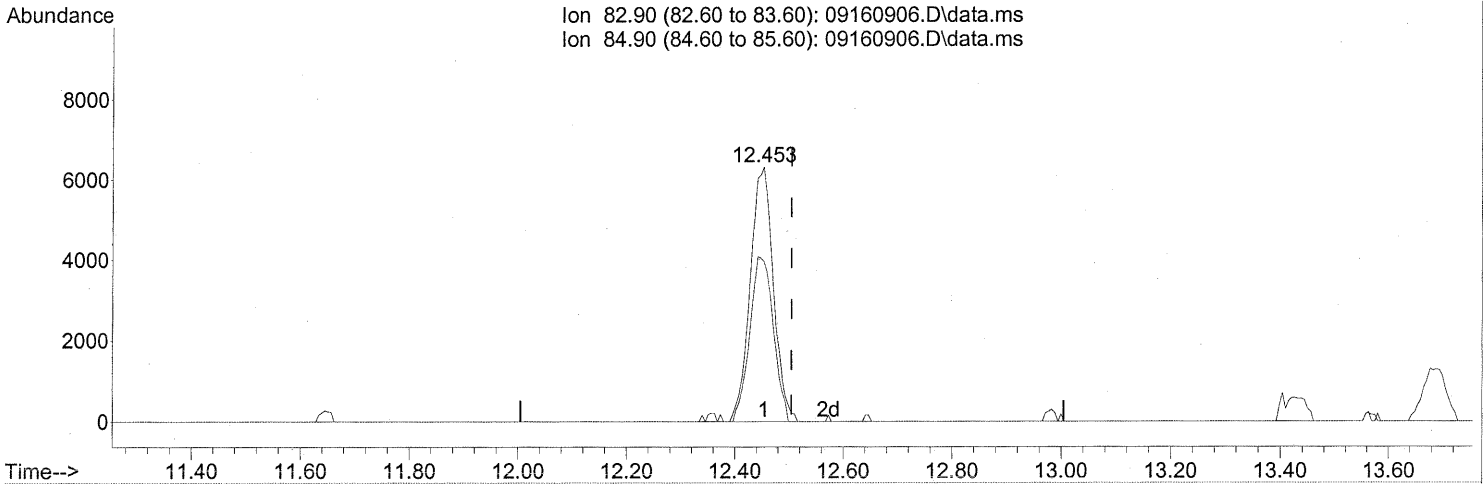
response 82539

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	16.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(32) Chloroform (T)
 12.453min (-0.051) 0.77ng
 response 18789

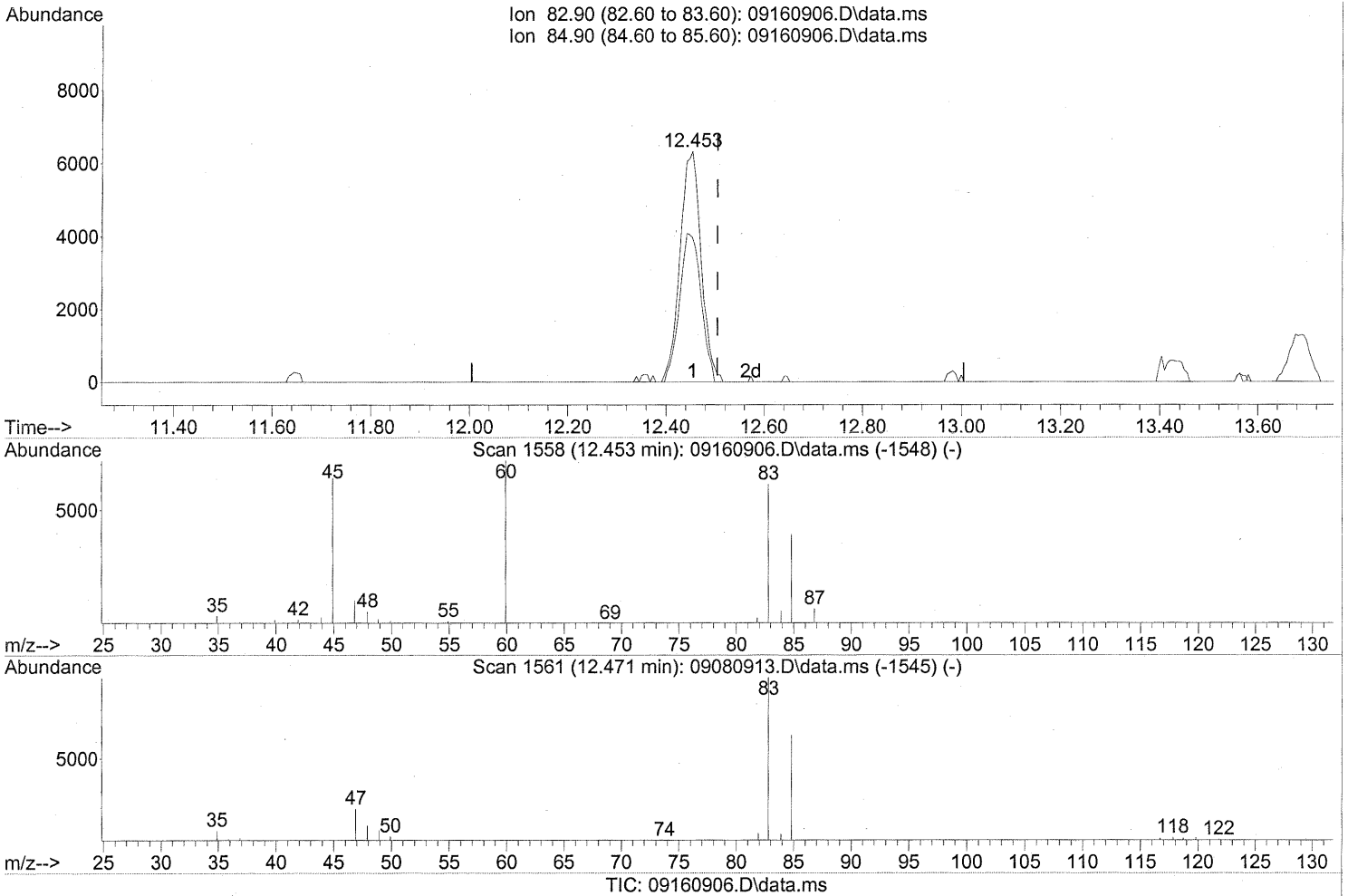
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.67
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.453min (-0.051) 0.77ng

response 18789

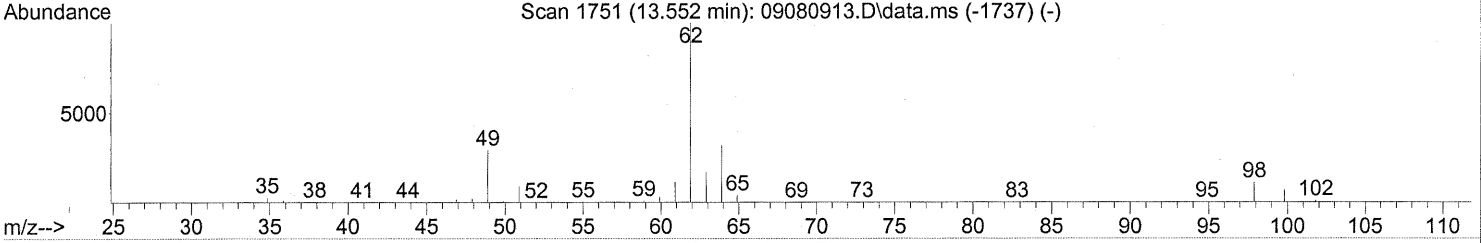
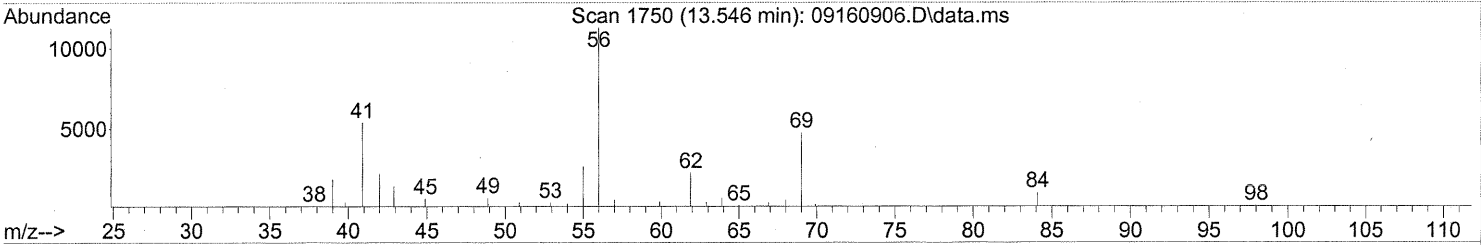
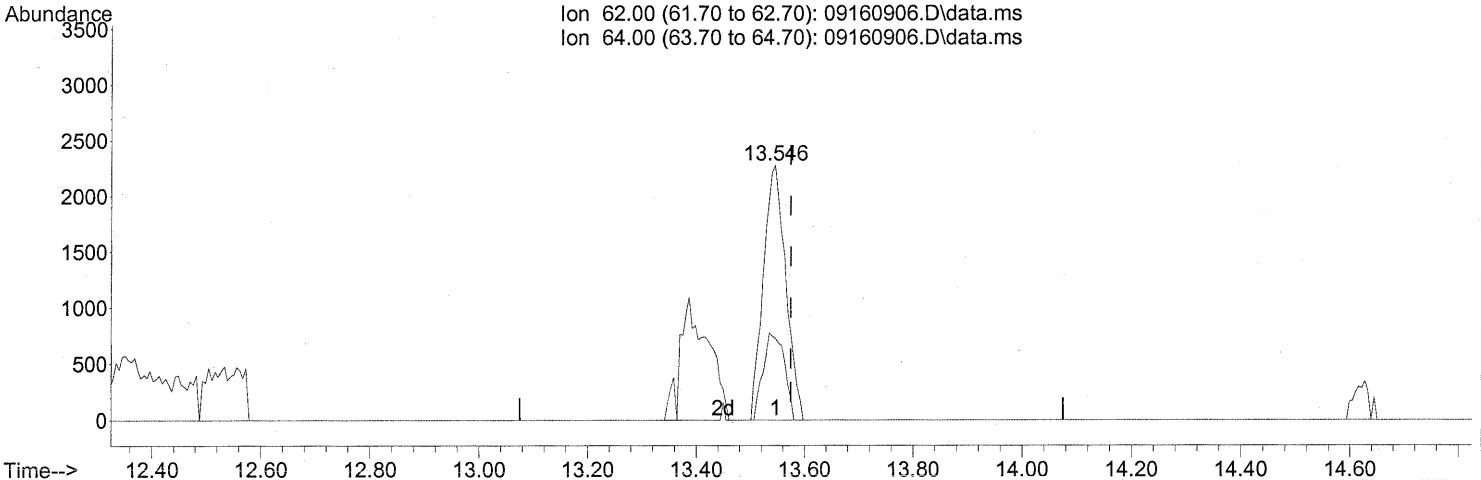
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.67
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.028) 0.39ng

response 6520

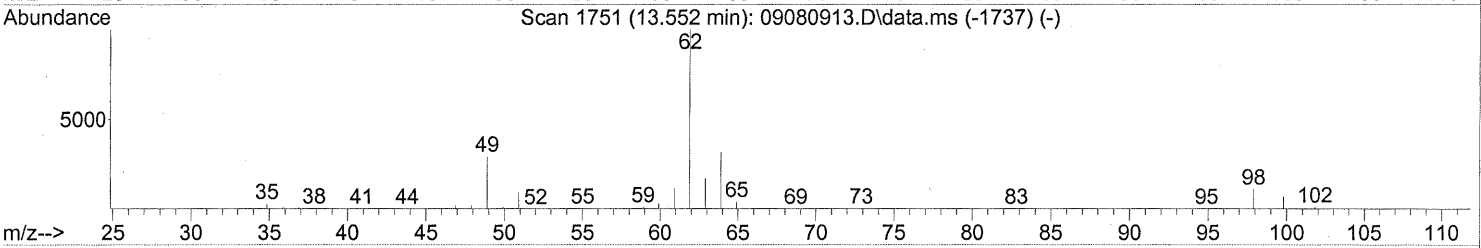
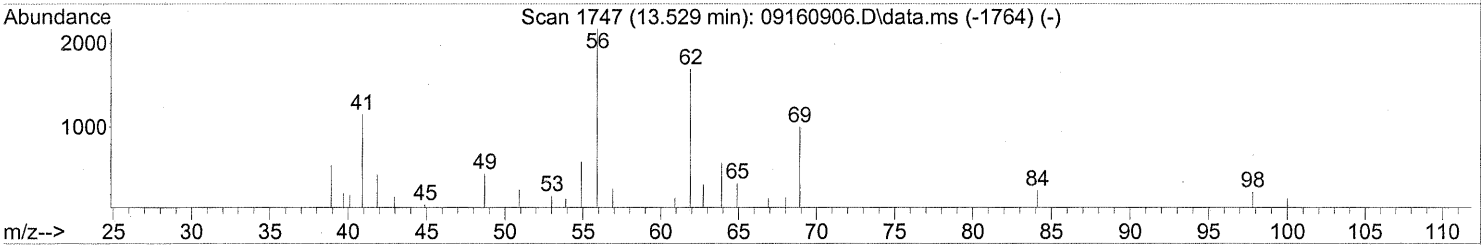
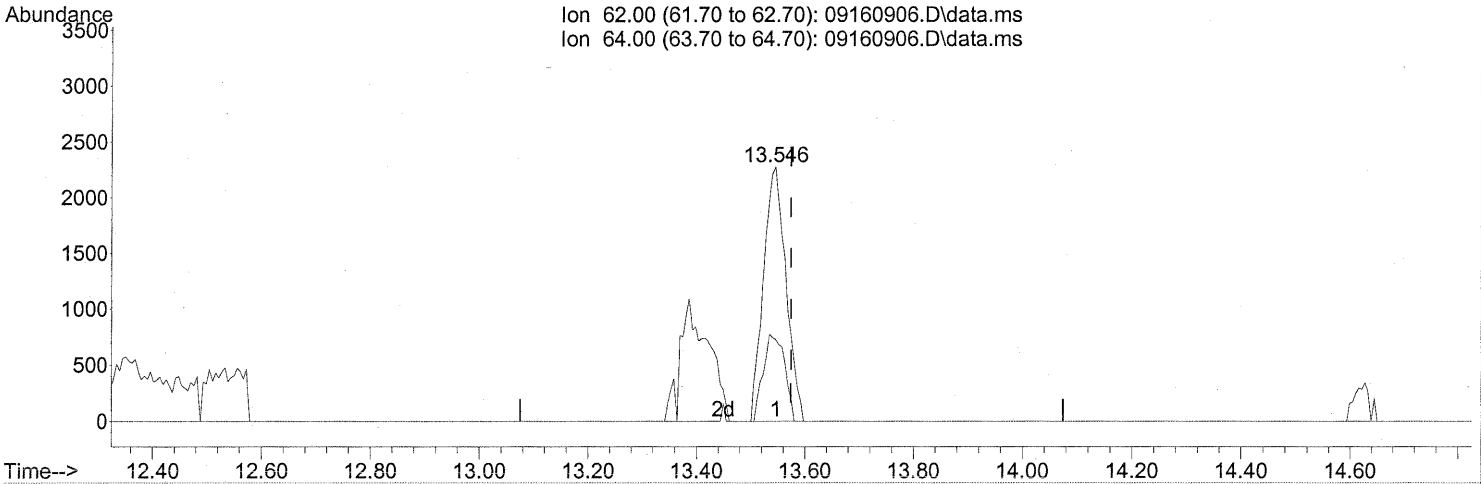
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.30
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.028) 0.39ng

response 6520

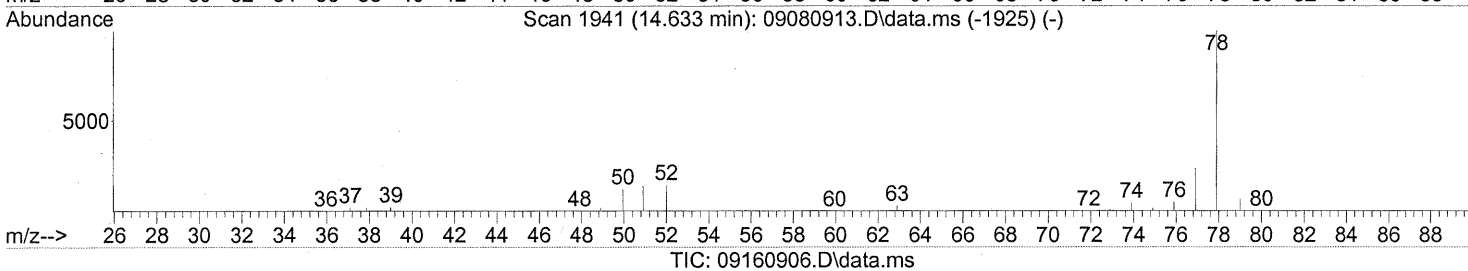
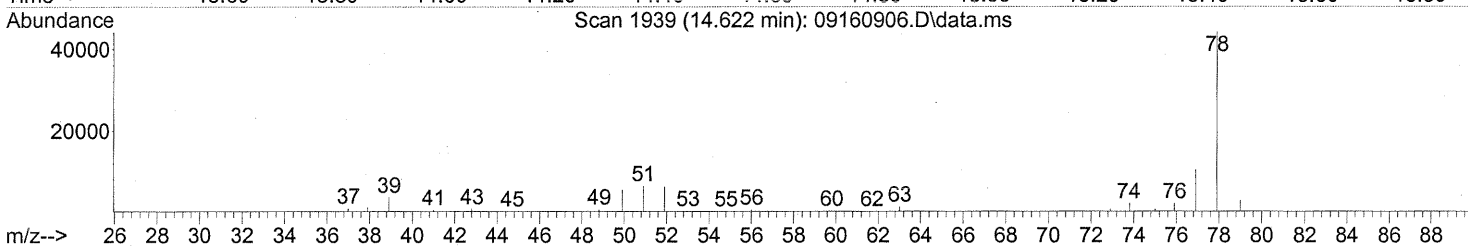
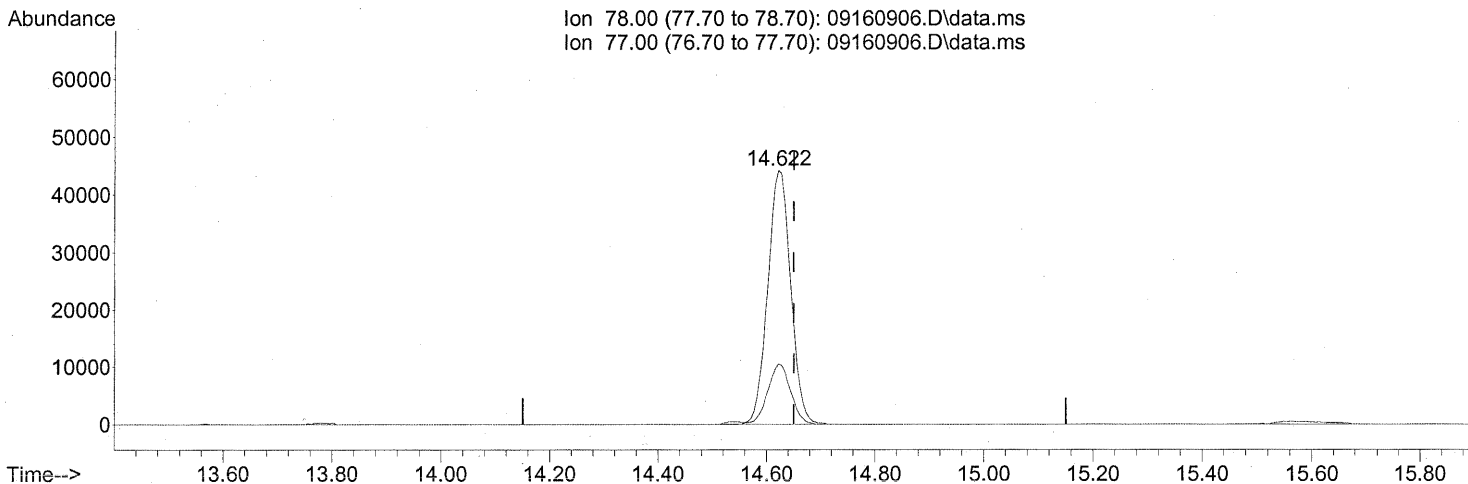
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.30
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.622min (-0.028) 2.22ng

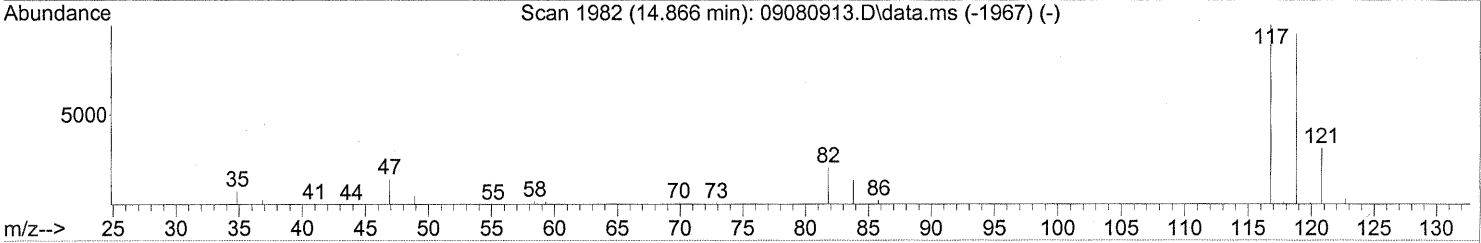
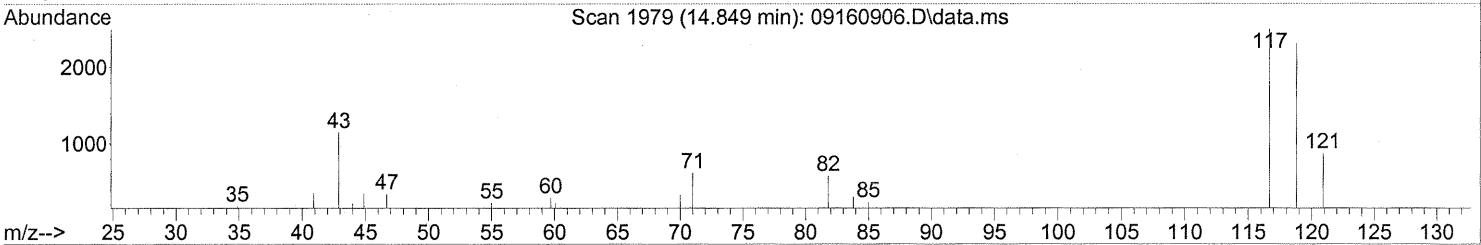
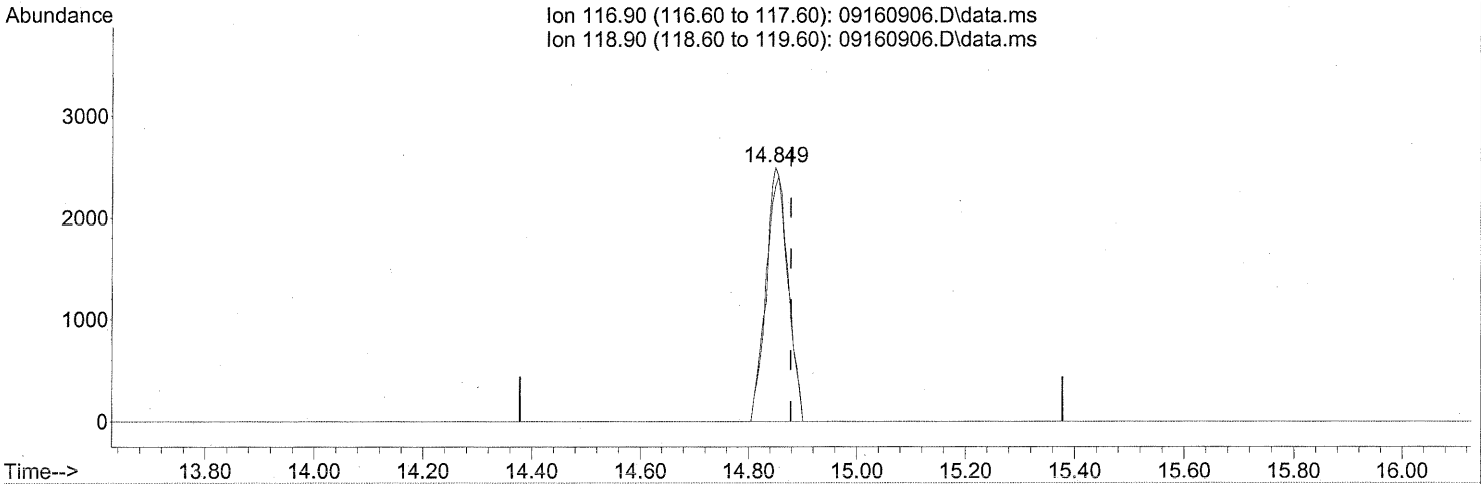
response 130441

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160906.D
Acq On : 16 Sep 2009 12:18
Operator : LH
Sample : P0903145-004 (1000mL)
Misc : Environmental H & E 102651
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160906.D\data.ms

(42) Carbon Tetrachloride (T)

14.849min (-0.028) 0.40ng

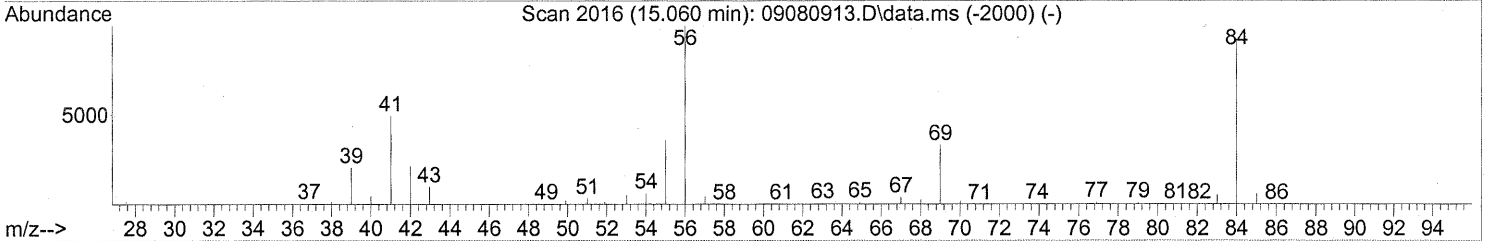
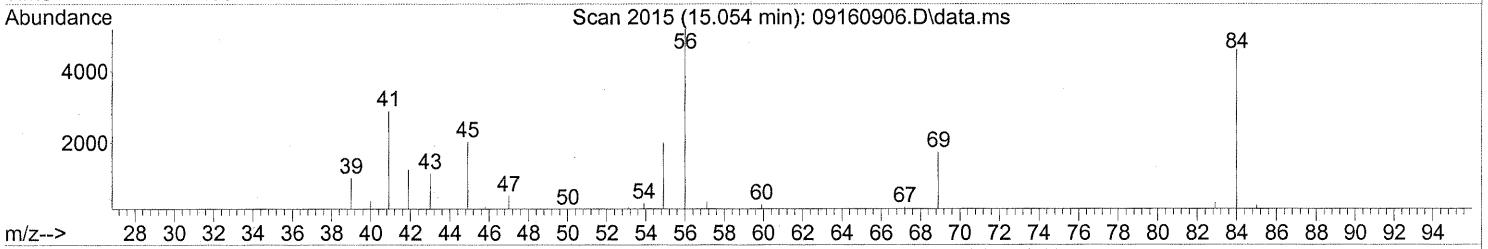
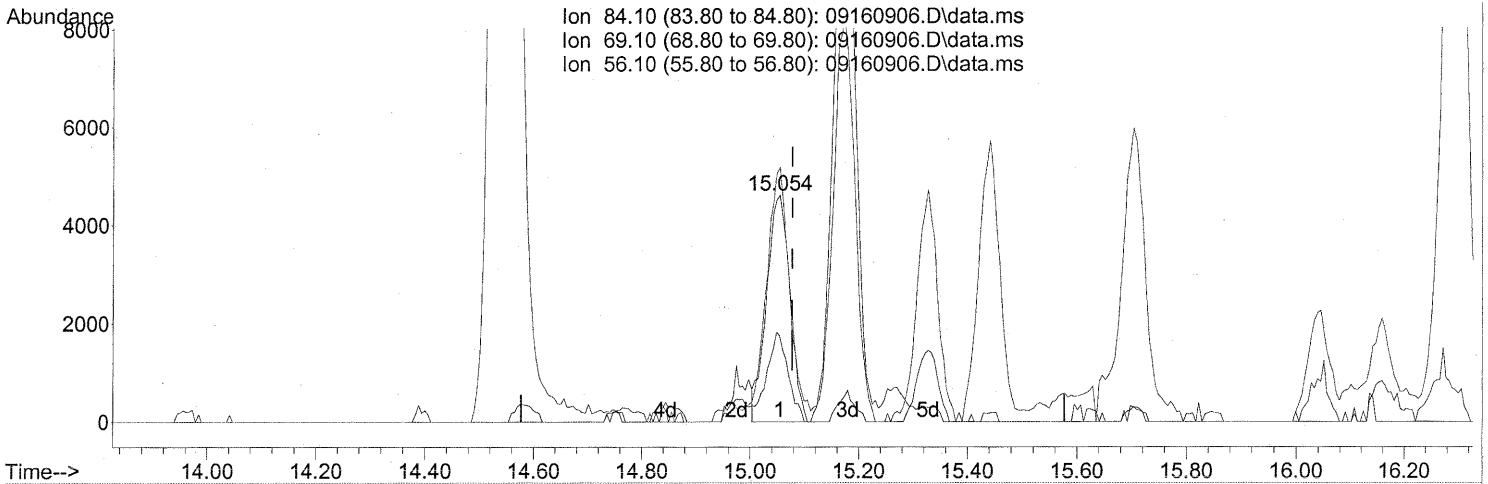
response 7054

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	96.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

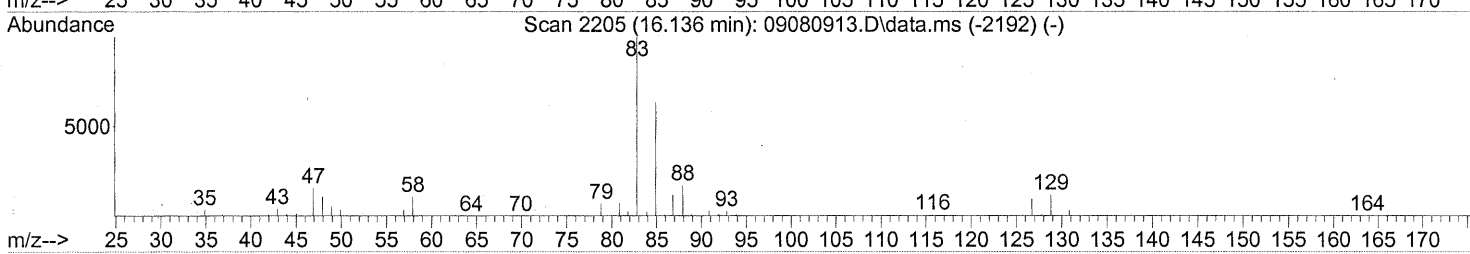
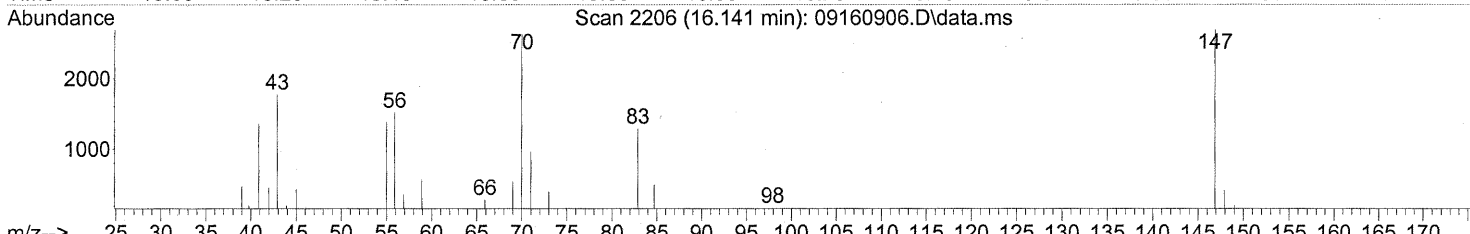
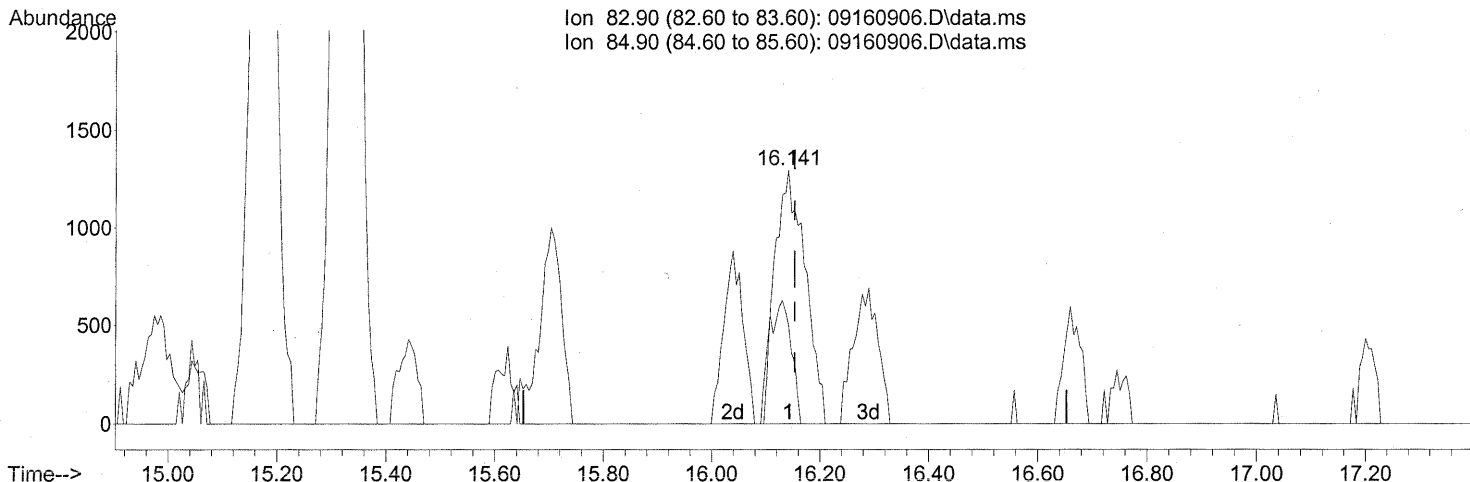
(43) Cyclohexane (T)
 15.054min (-0.023) 0.64ng
 response 13757

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	35.65
56.10	124.60	112.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.141min (-0.011) 0.28ng

response 5121

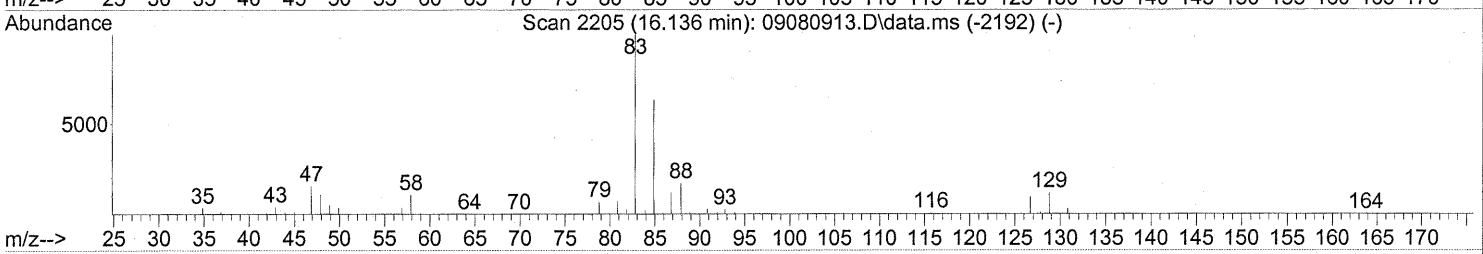
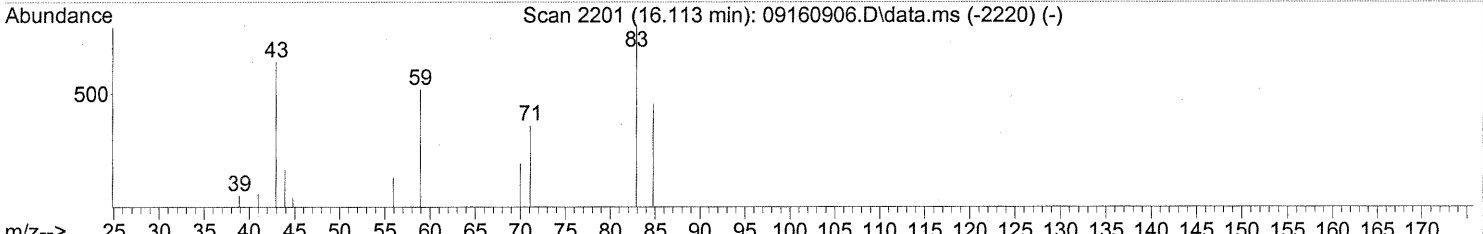
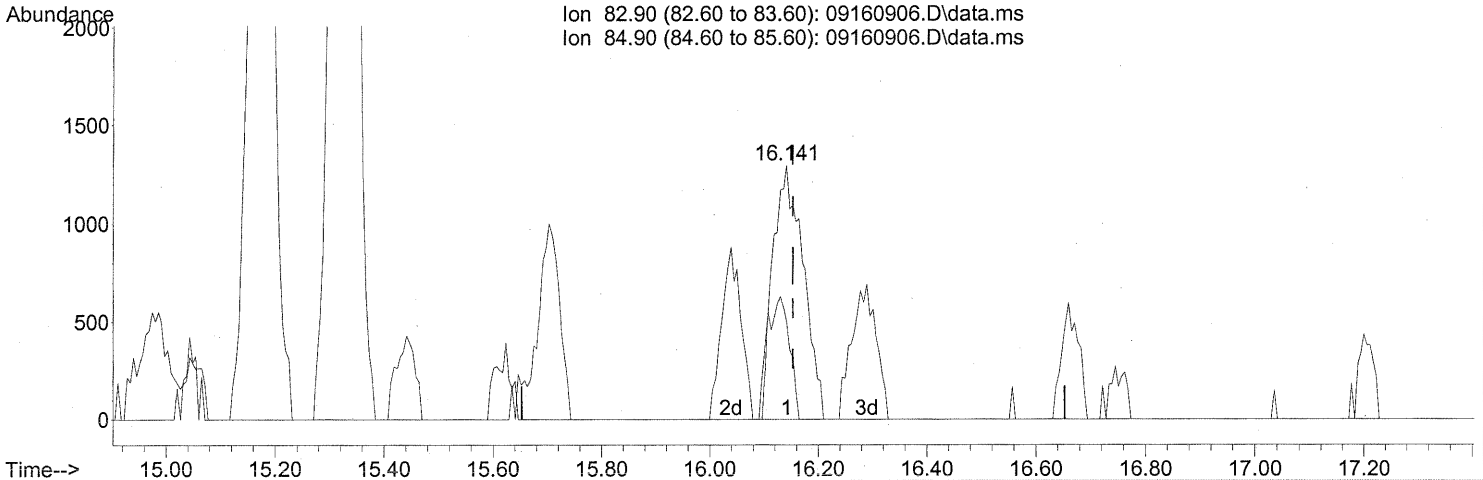
BEFORE SUBTRACTION

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	32.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.141min (-0.011) 0.28ng

response 5121

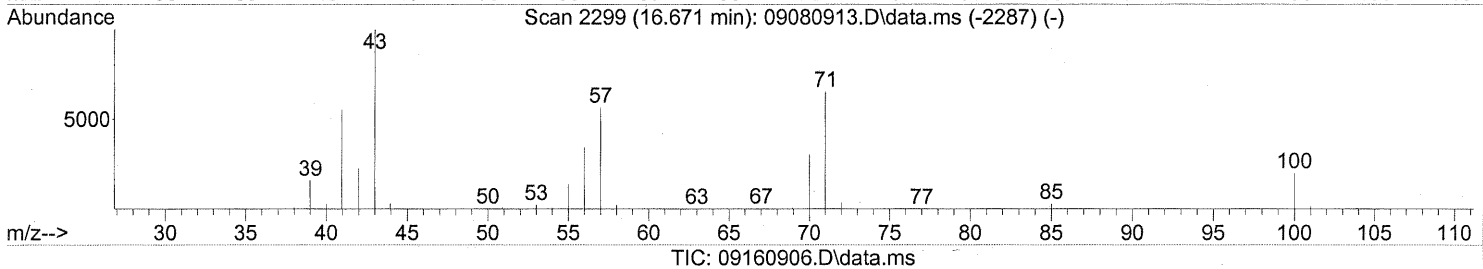
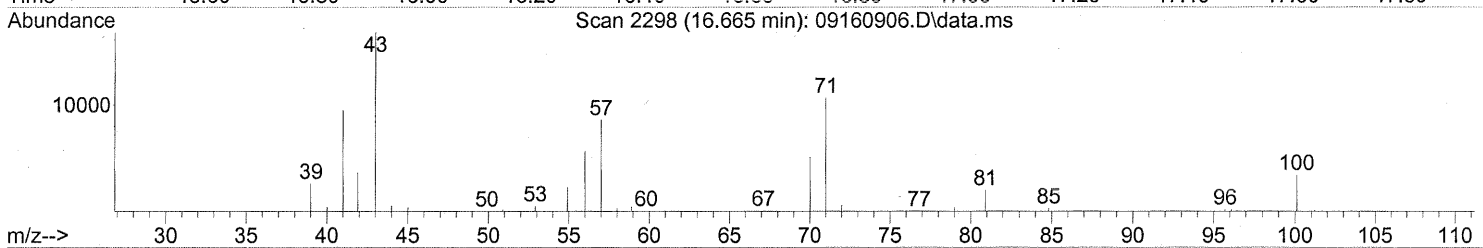
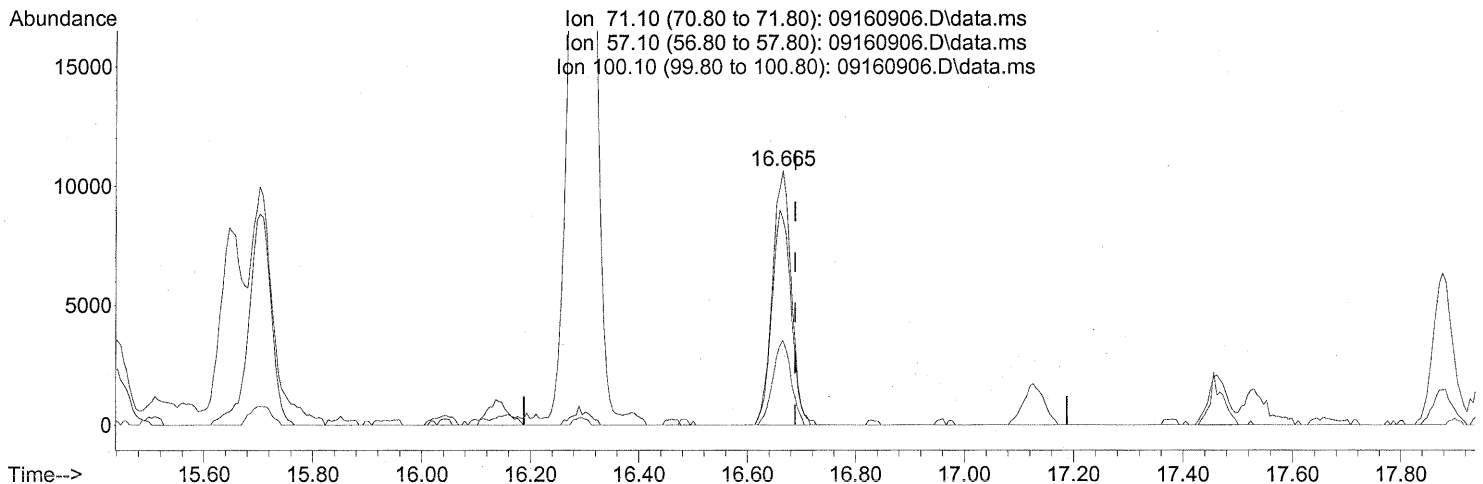
Ion	Exp%	Act%
82.90	100	100
84.90	64.00	32.47#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



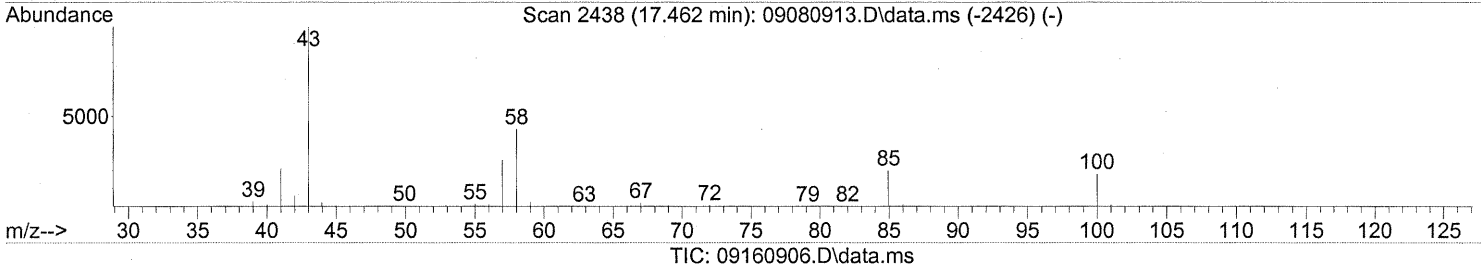
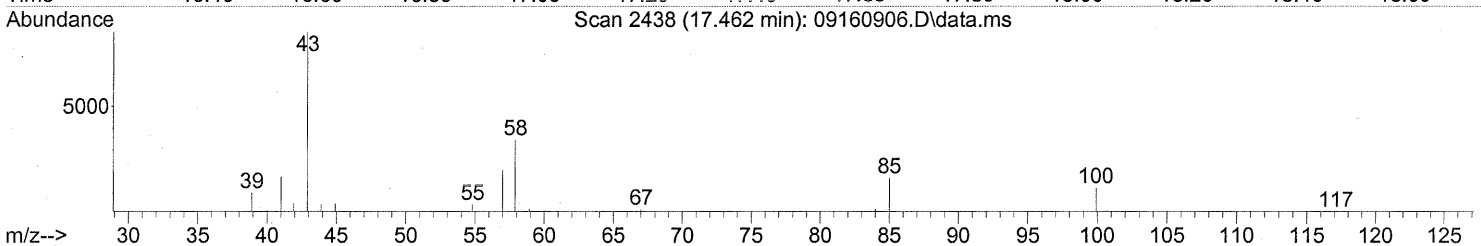
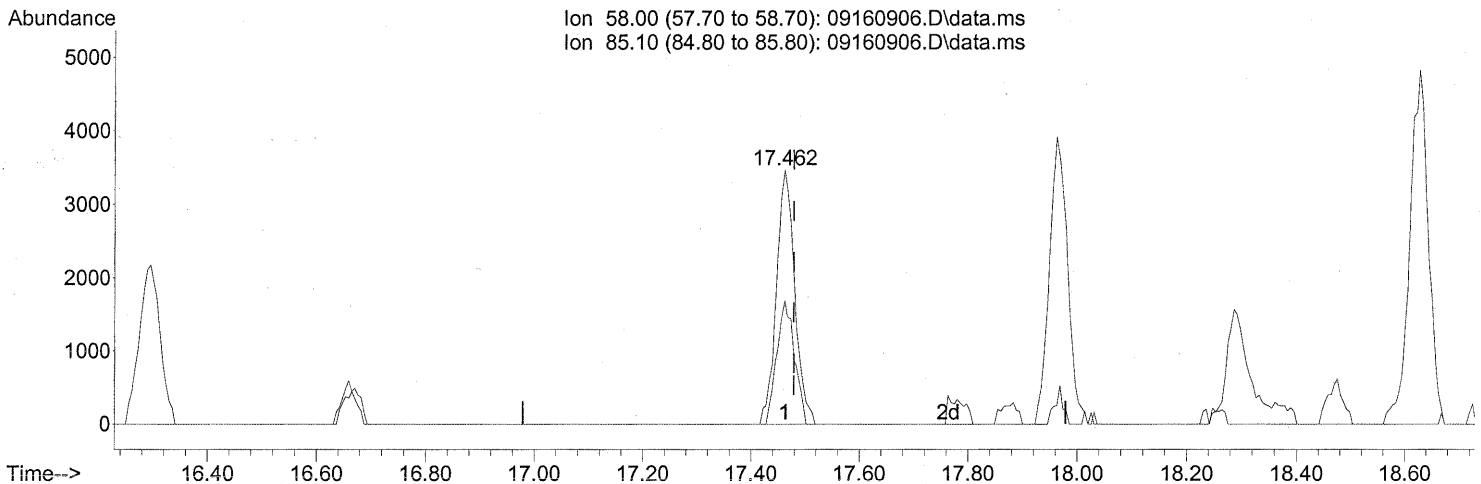
(51) n-Heptane (T)
 16.665min (-0.023) 1.71ng
 response 25607

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	85.87
100.10	26.80	31.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 0.62ng

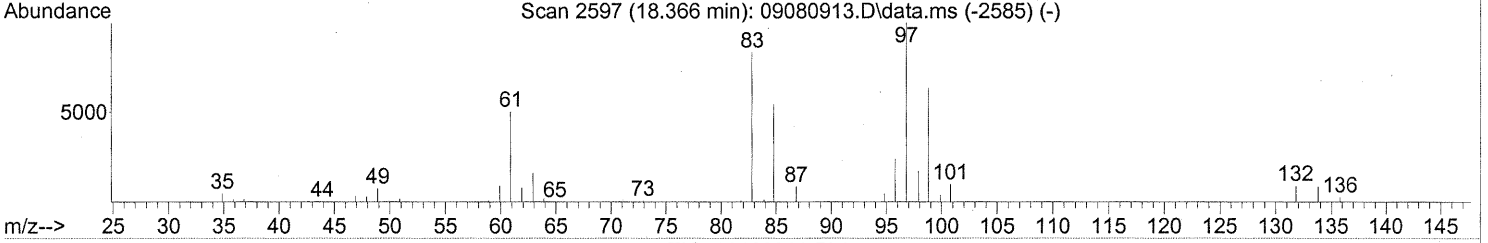
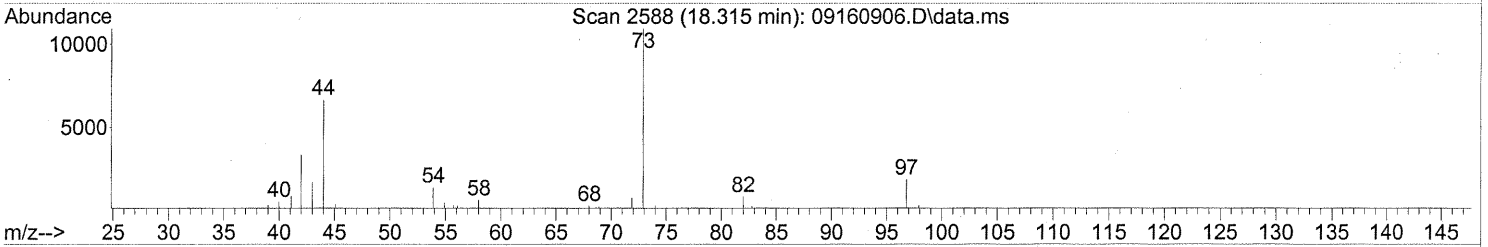
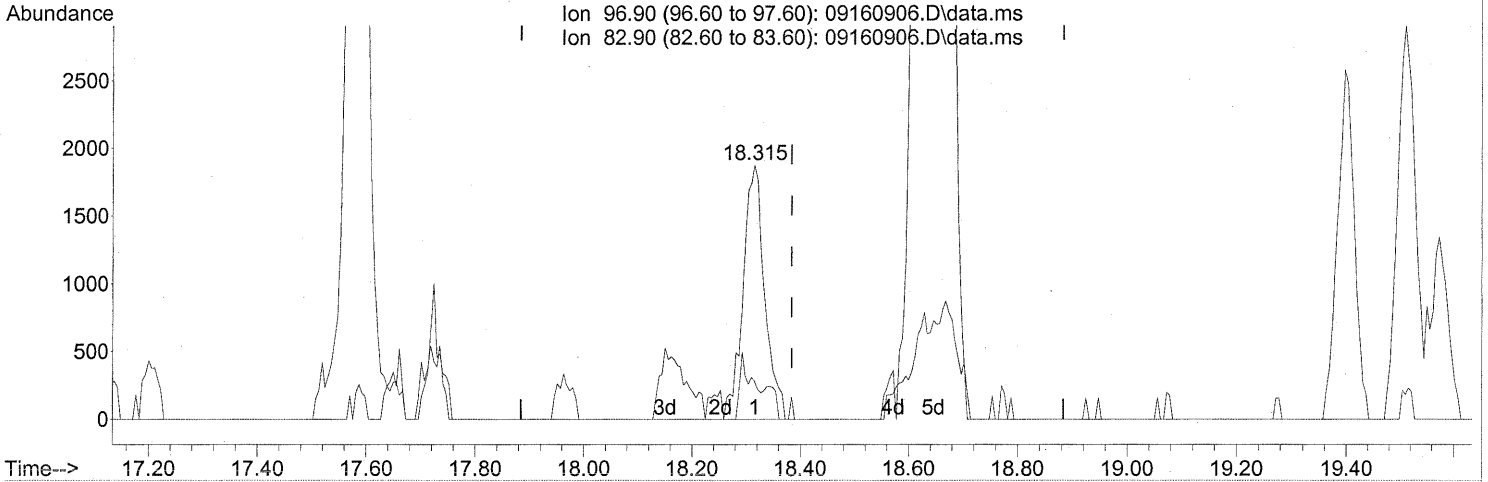
response 8096

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.315min (-0.068) 0.35ng

response 5175

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

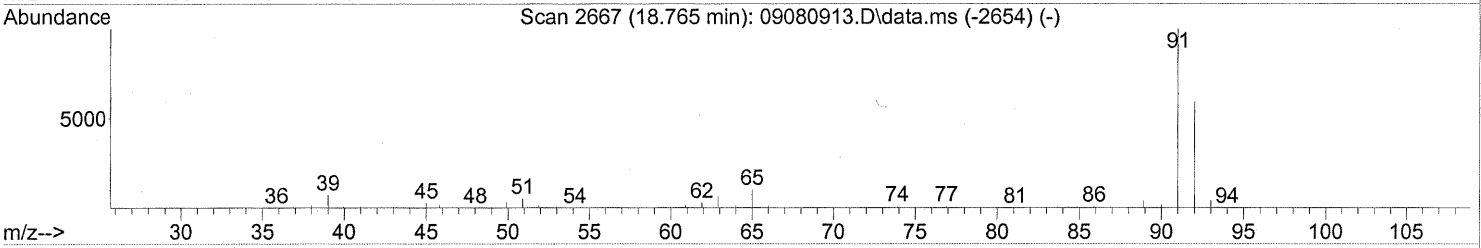
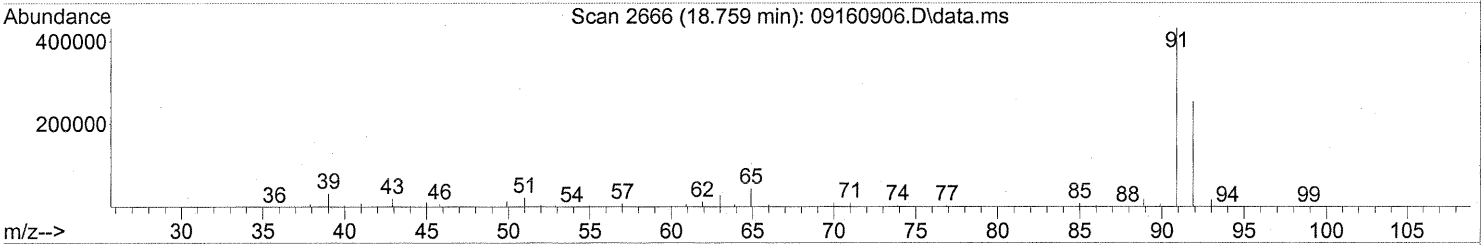
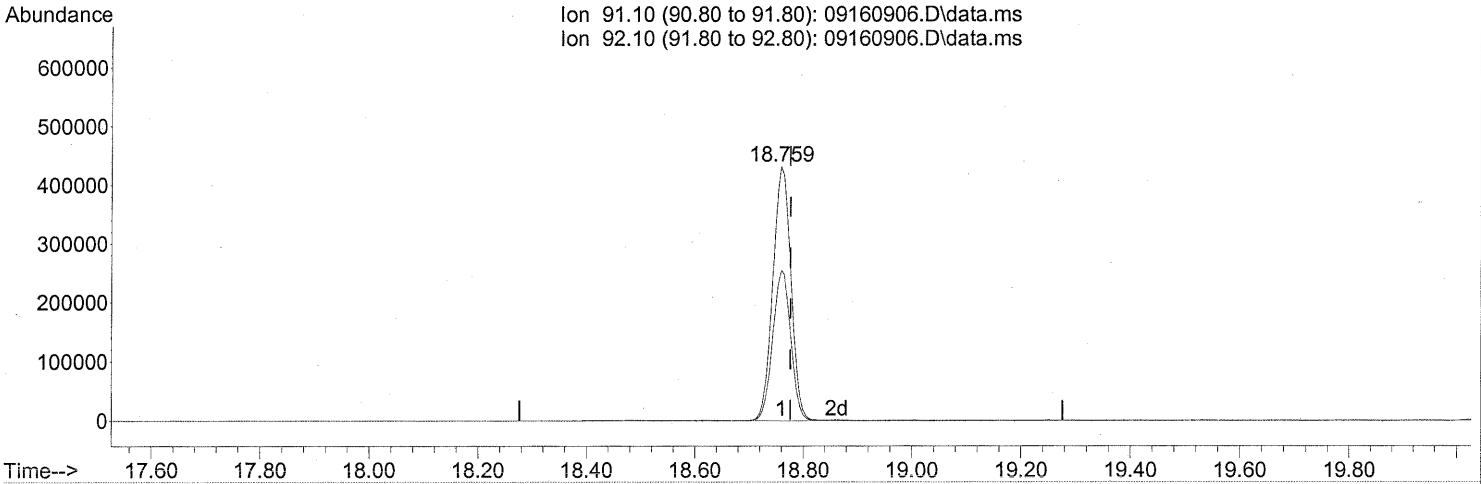
FP in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(58) Toluene (T)

18.759min (-0.017) 15.24ng

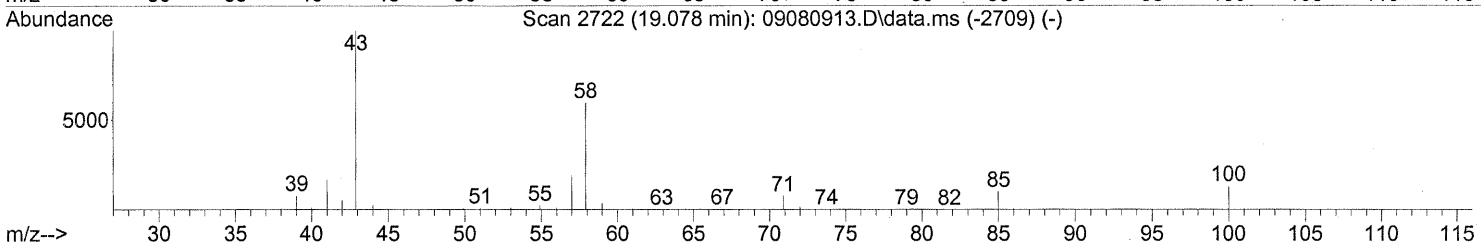
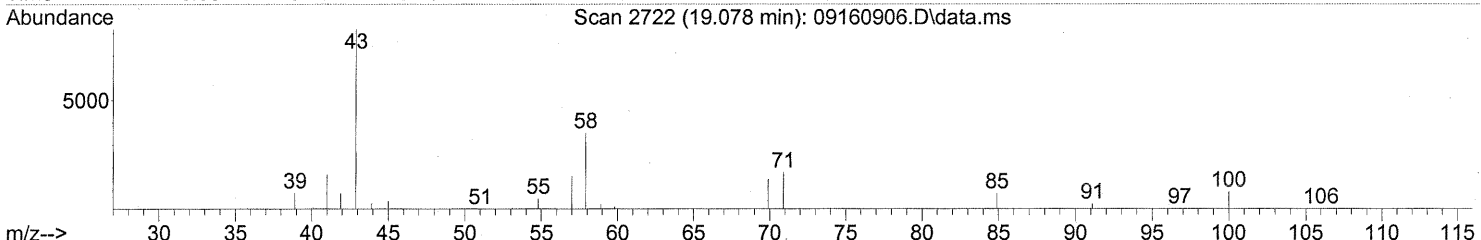
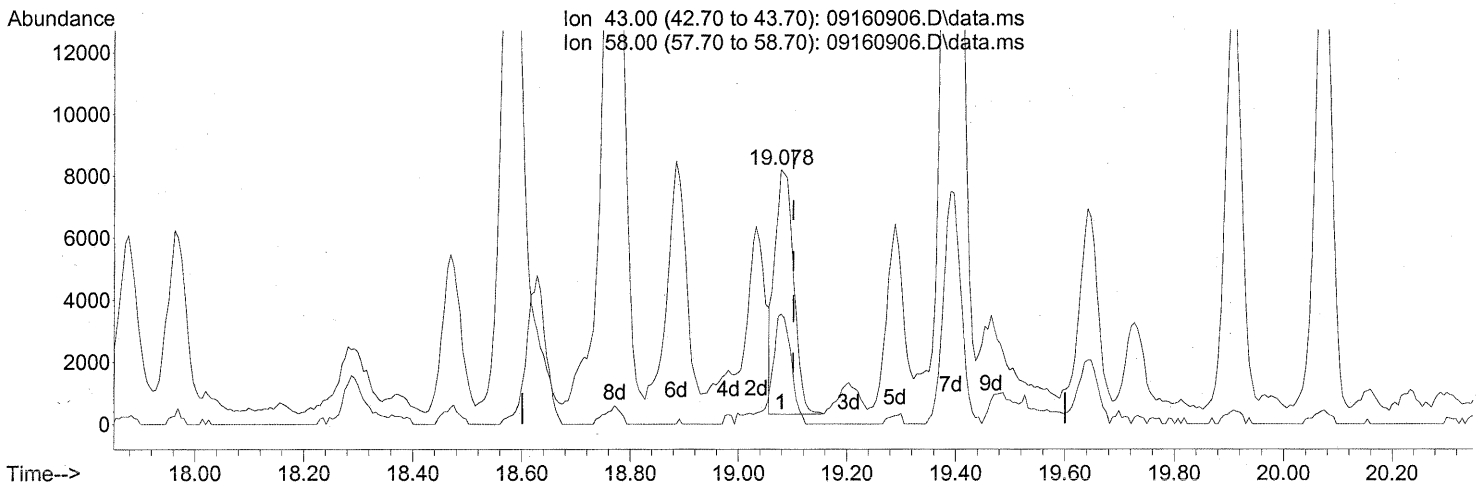
response 998977

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

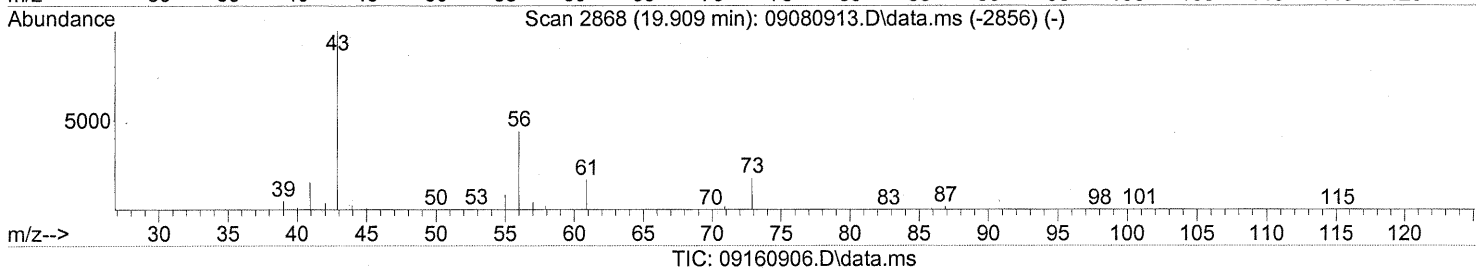
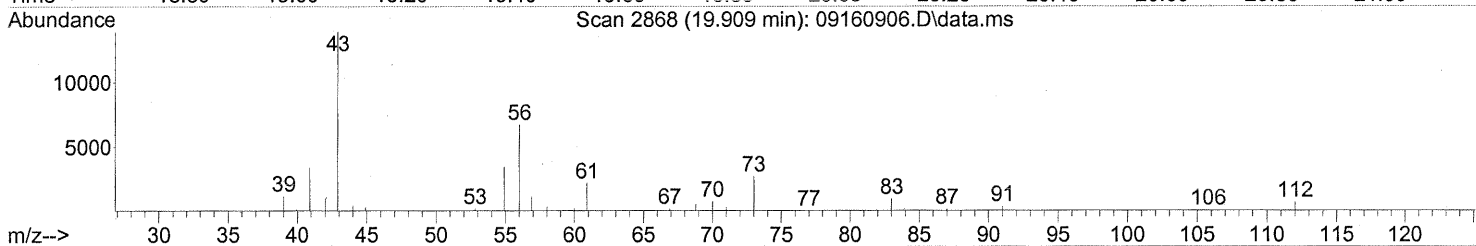
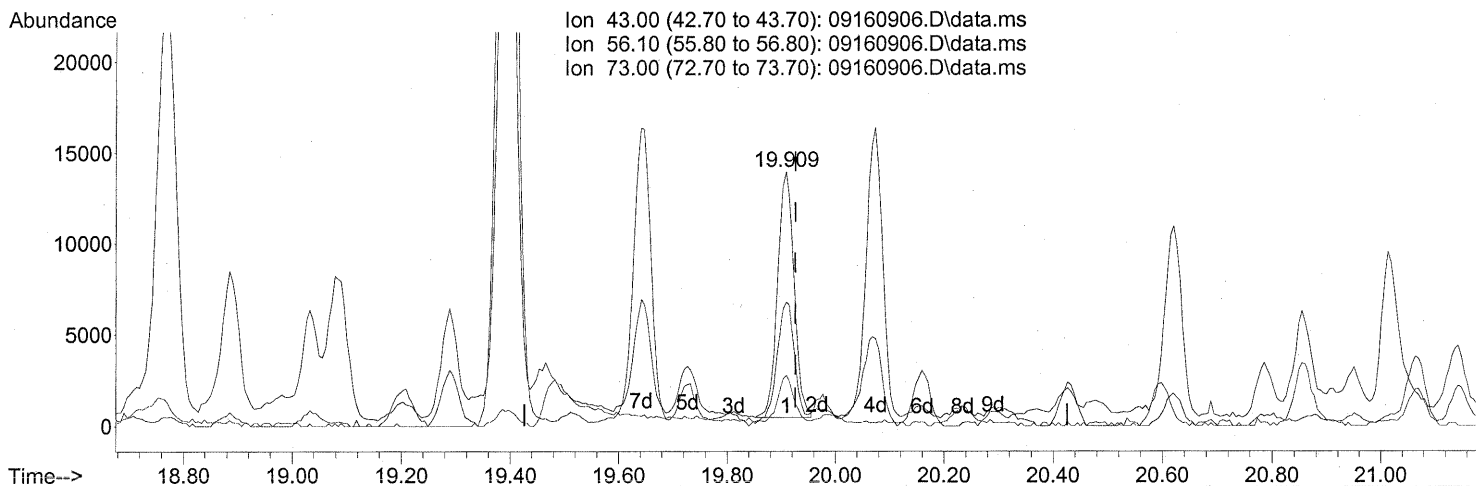
(59) 2-Hexanone (T)
 19.078min (-0.023) 0.60ng
 response 19085

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	48.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



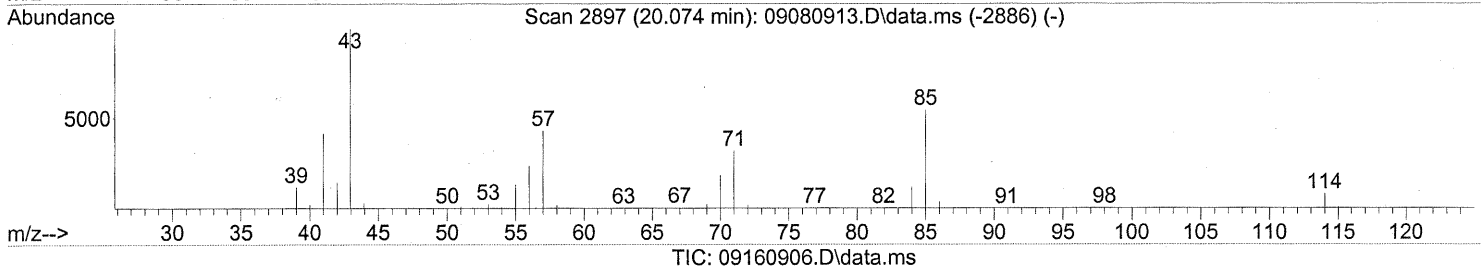
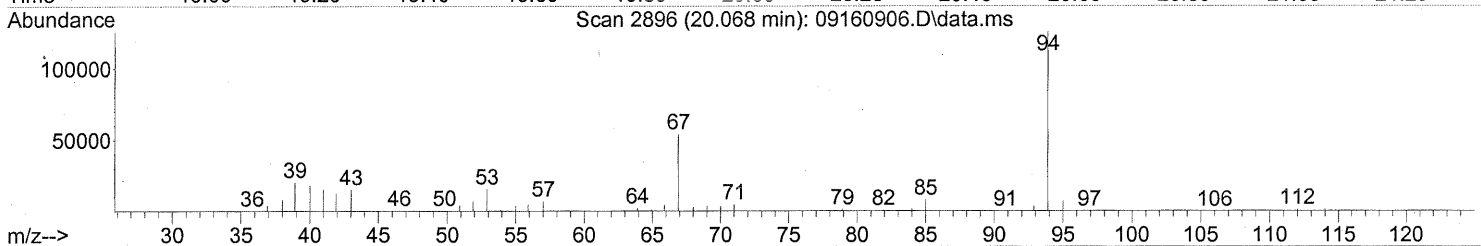
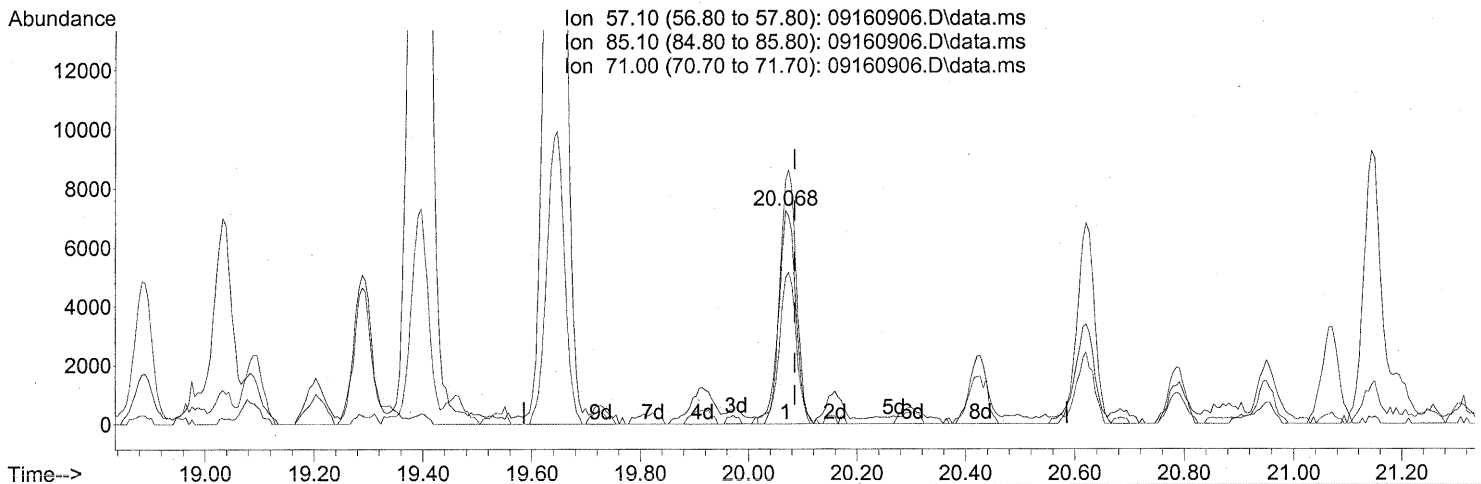
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 0.79ng
 response 28414

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	56.83
73.00	15.40	19.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.068min (-0.017) 1.30ng

response 15944

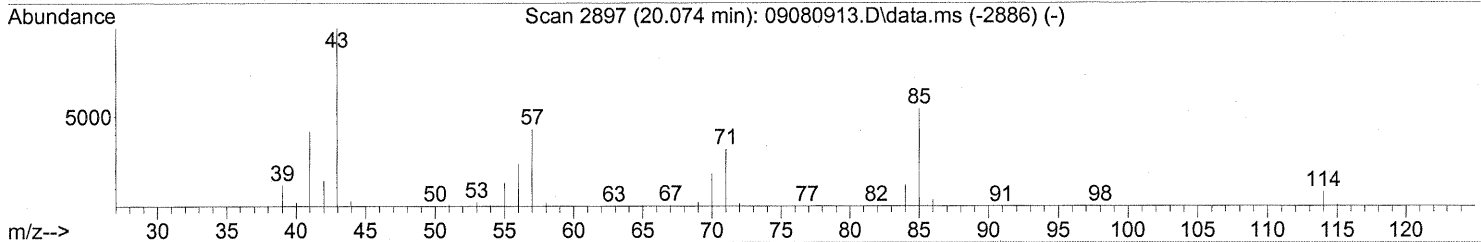
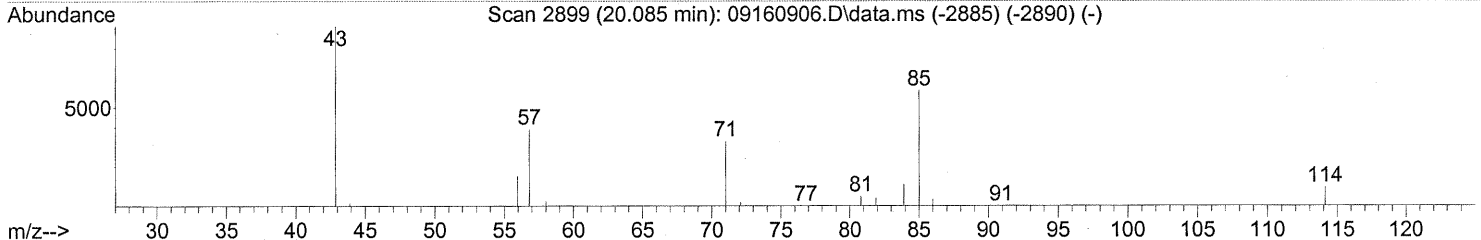
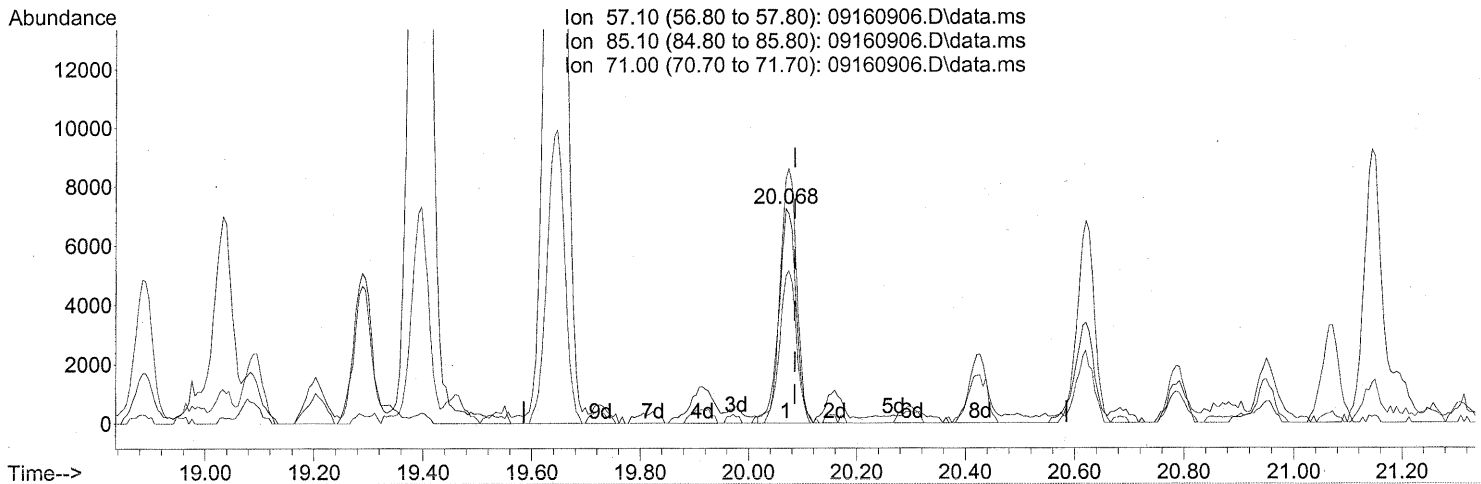
Ion	Exp%	Act%
57.10	100	100
85.10	109.50	113.72
71.00	69.40	71.41
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(63) n-Octane (T)

20.068min (-0.017) 1.30ng

response 15944

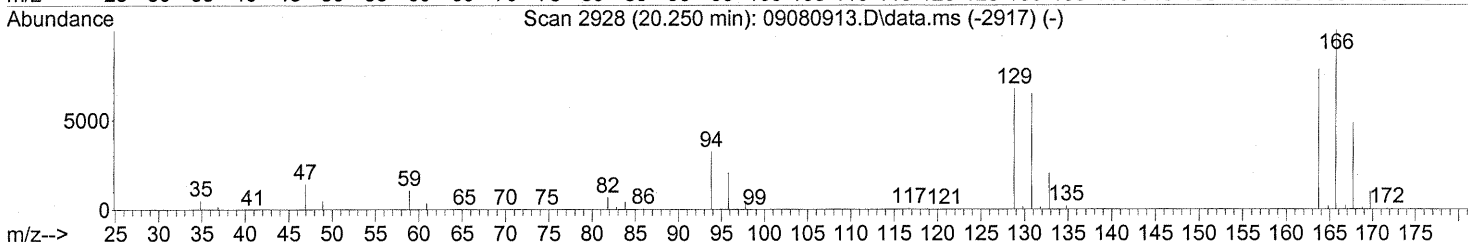
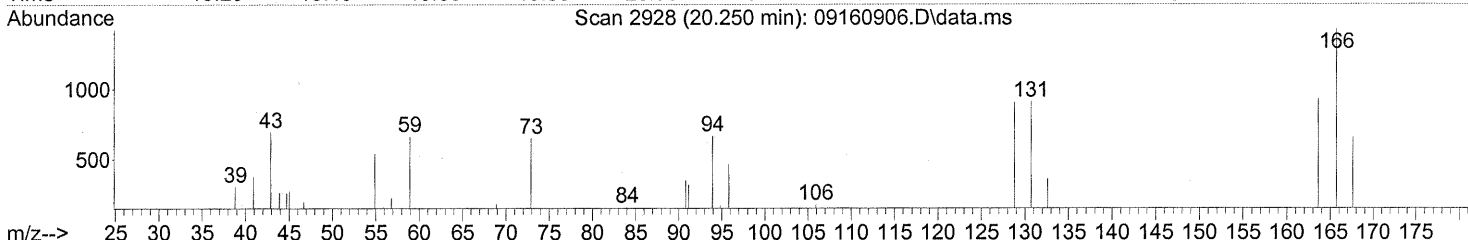
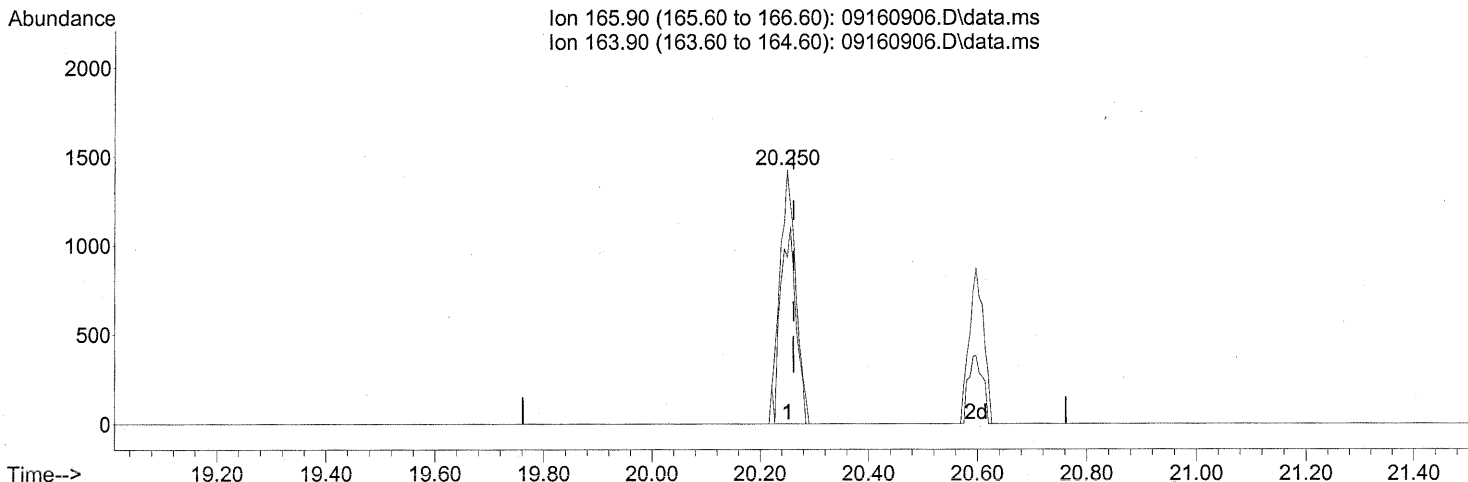
Ion	Exp%	Act%
57.10	100	100
85.10	109.50	113.72
71.00	69.40	71.41
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.250min (-0.011) 0.15ng

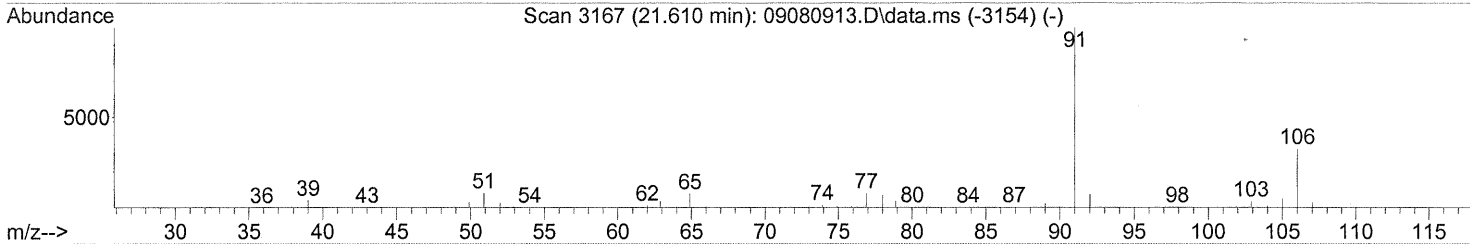
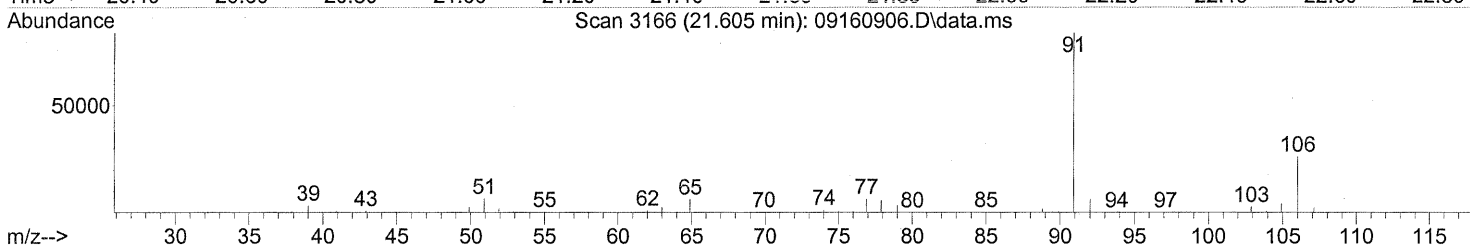
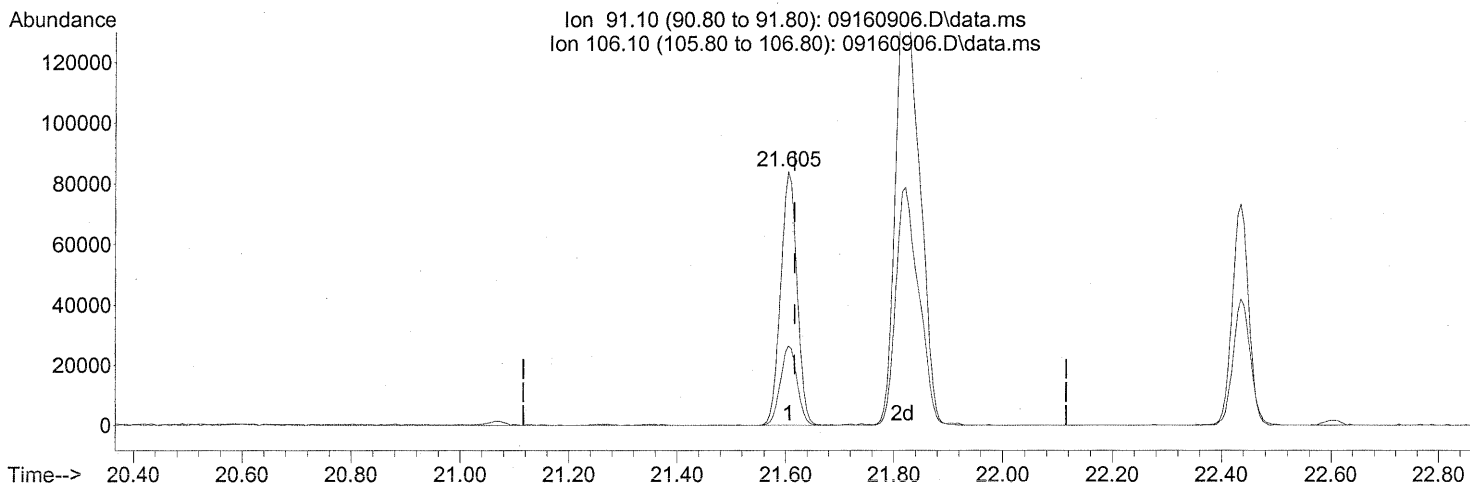
response 2950

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	75.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

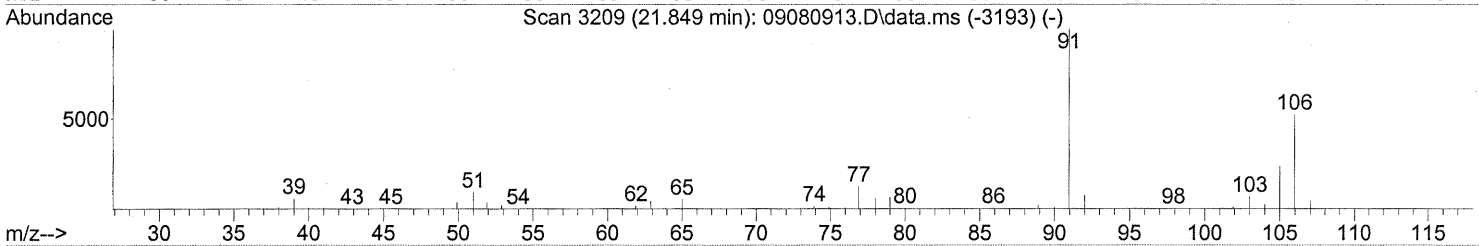
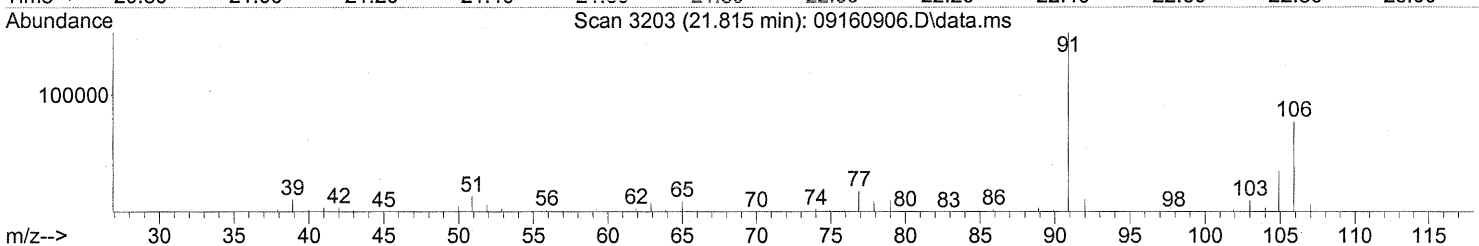
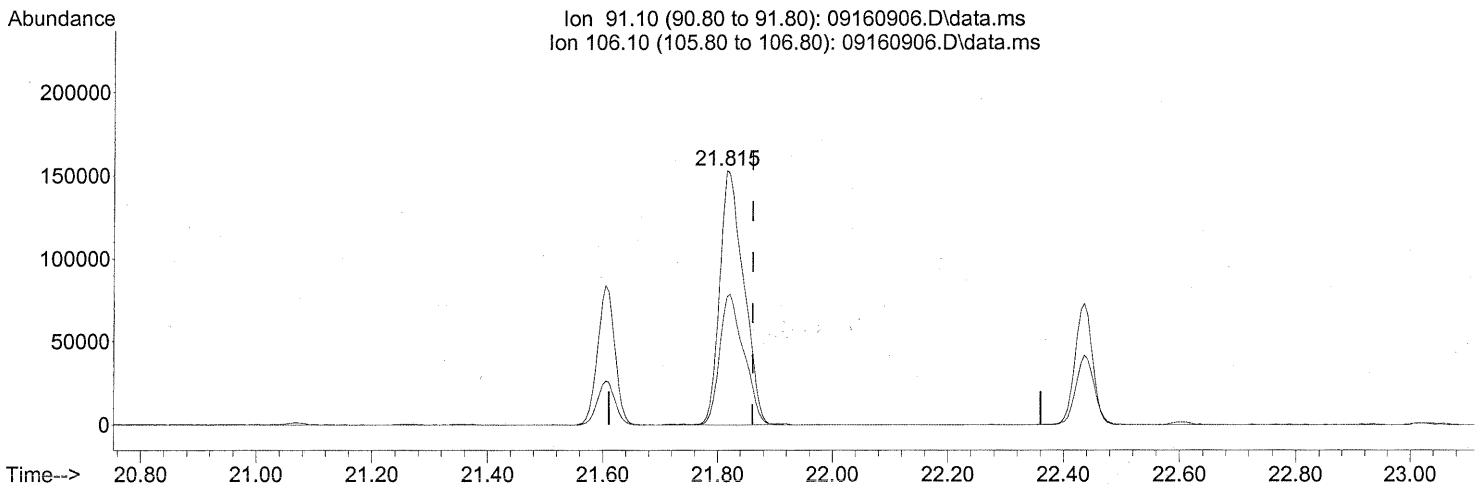
(66) Ethylbenzene (T)
 21.605min (-0.011) 2.44ng
 response 175827

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	31.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(67) m- & p-Xylenes (T)

21.815min (-0.045) 7.93ng

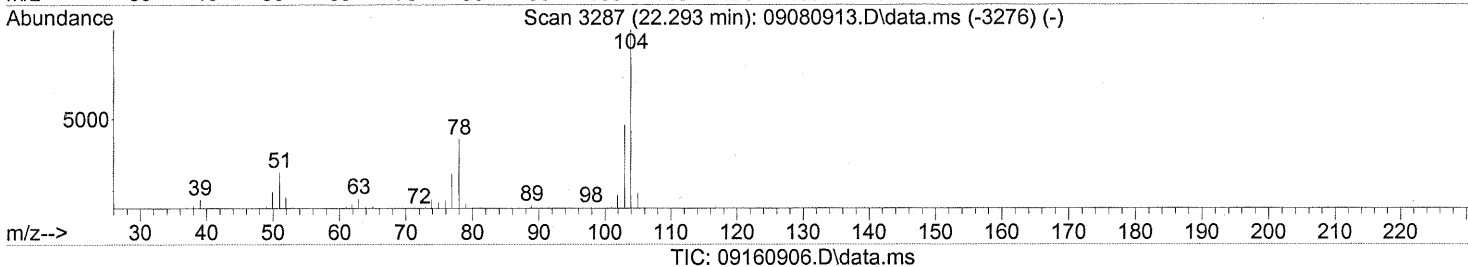
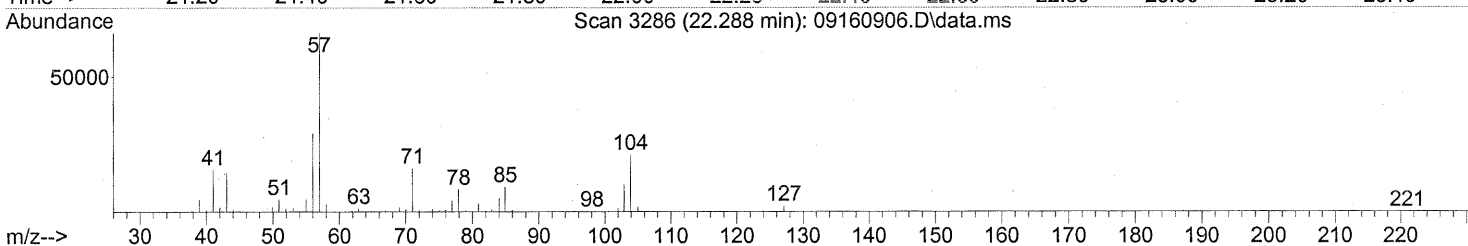
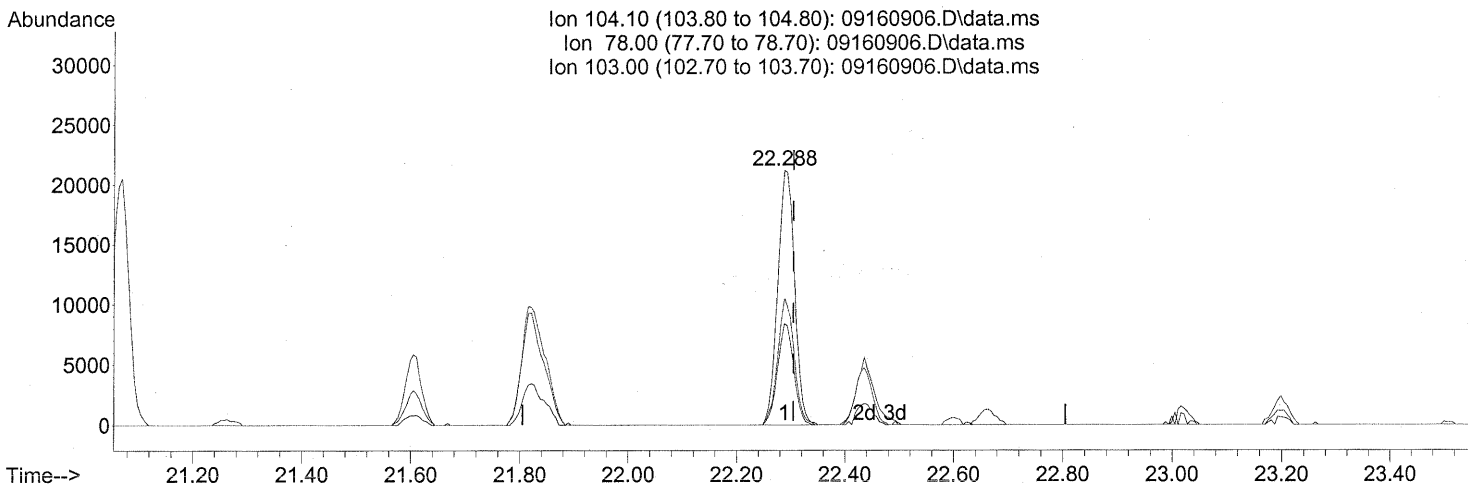
response 446046

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)
 22.288min (-0.017) 0.98ng
 response 45396

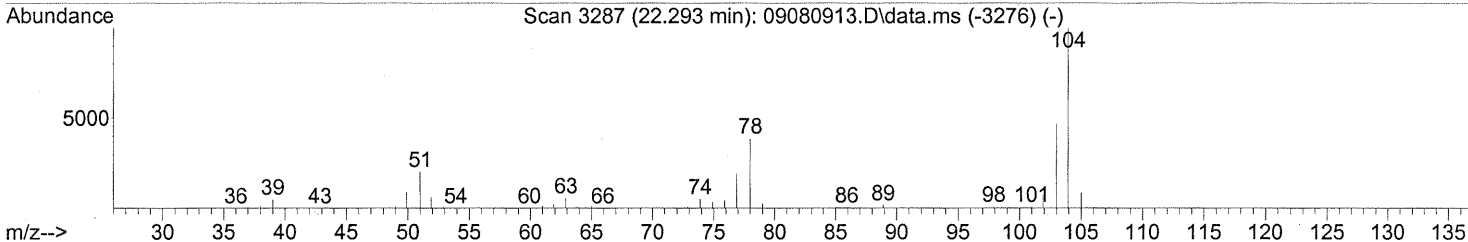
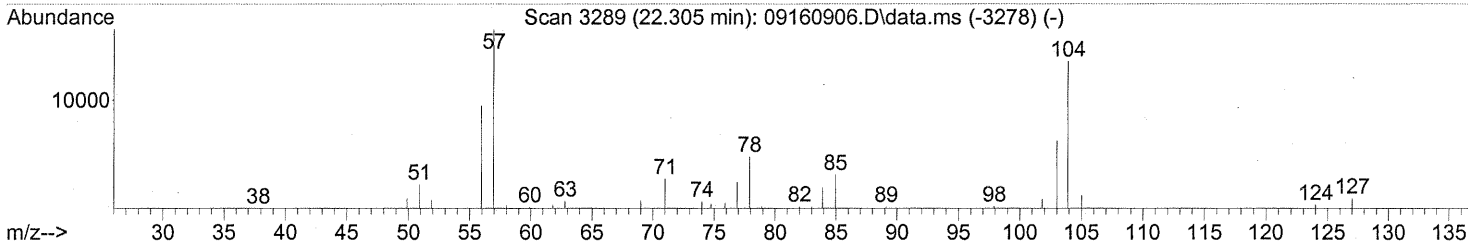
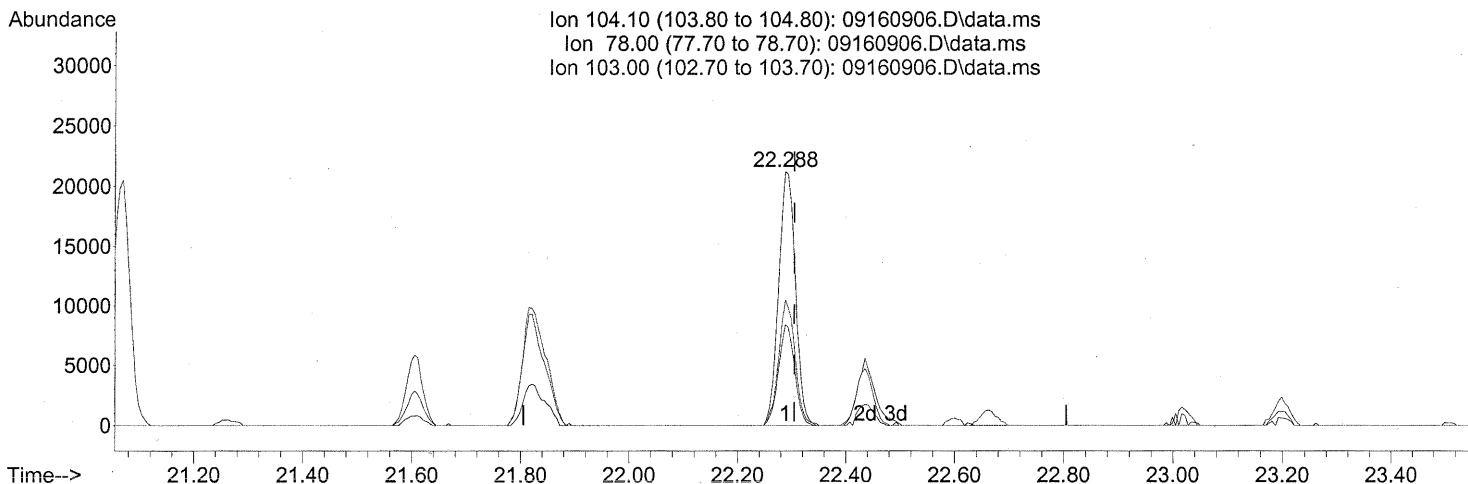
BEFORE SUBTRACTION

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.21
103.00	47.80	48.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(69) Styrene (T)

22.288min (-0.017) 0.98ng

response 45396

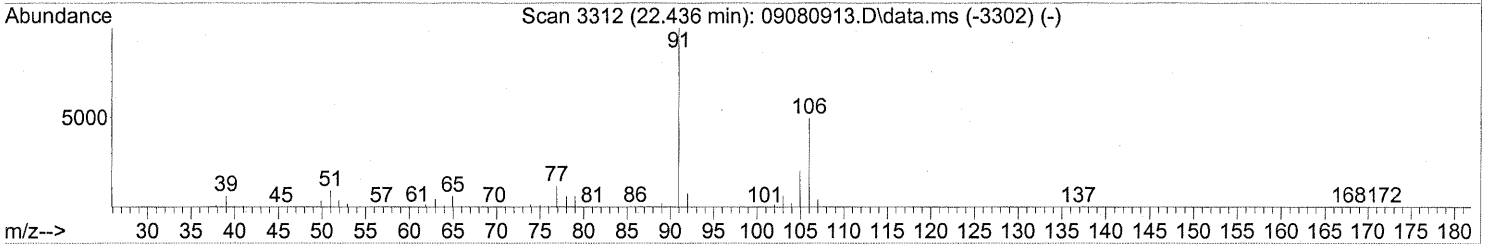
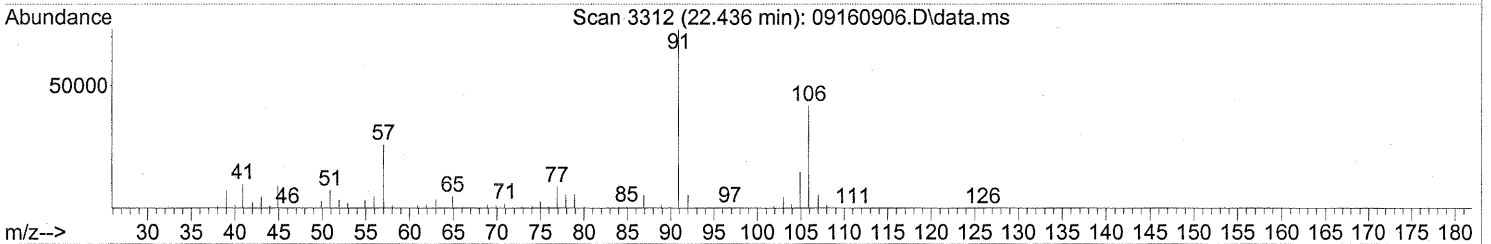
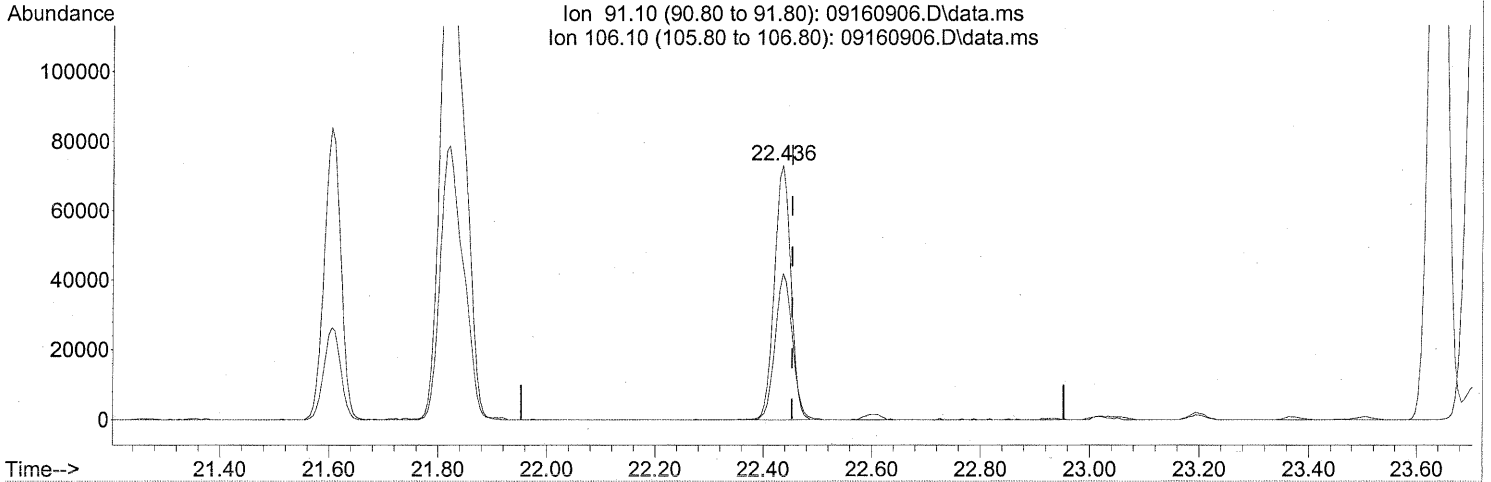
AFTER SUBTRACTION

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.21
103.00	47.80	48.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.436min (-0.017) 2.67ng

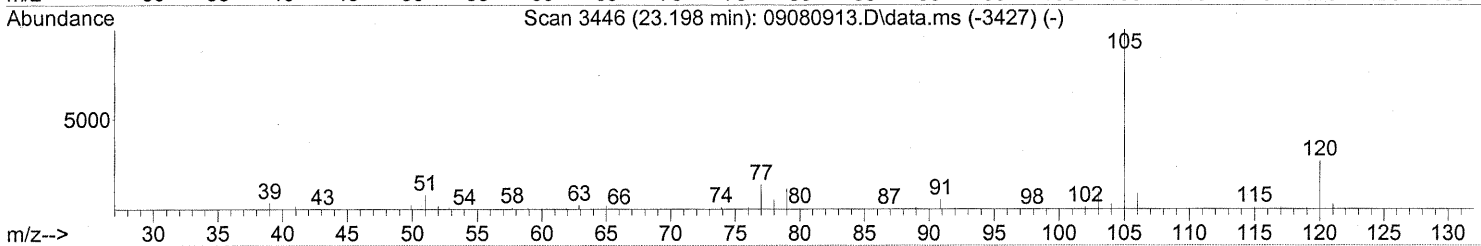
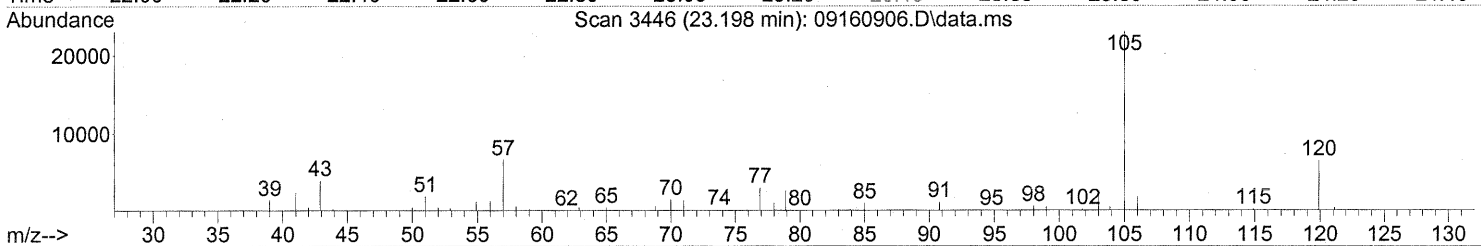
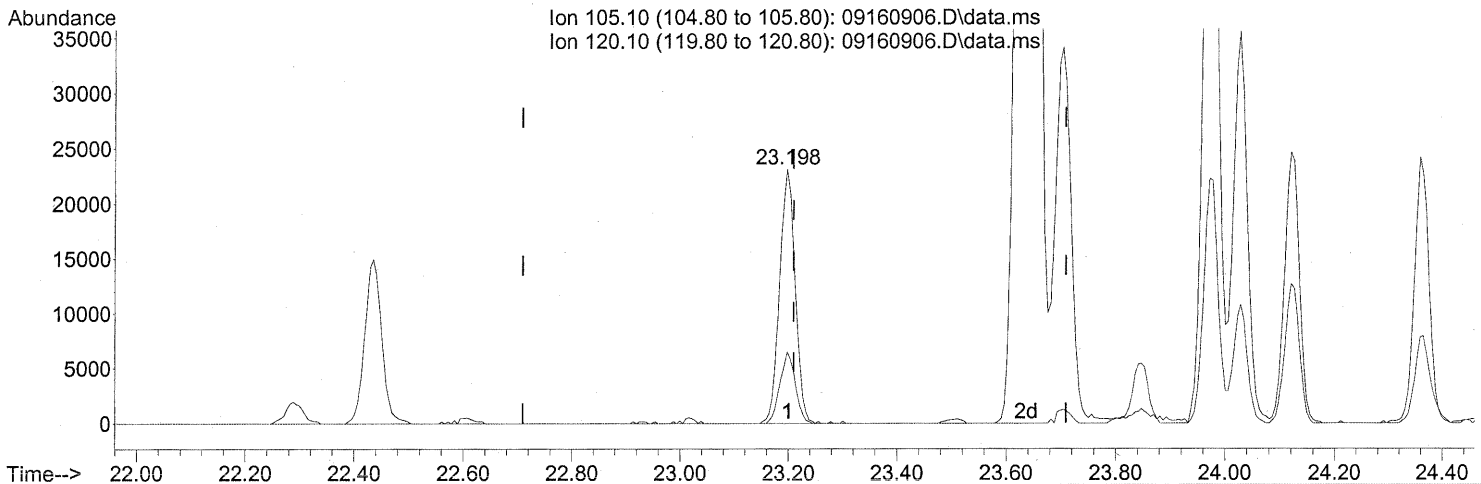
response 153457

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	60.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(74) Cumene (T)

23.198min (-0.011) 0.58ng

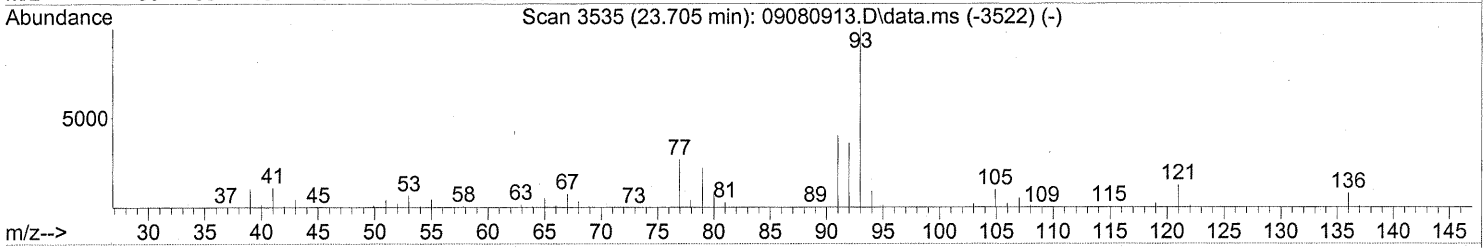
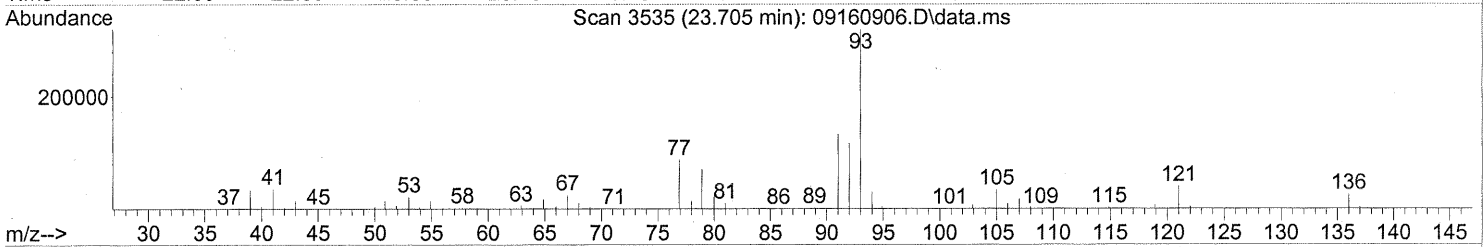
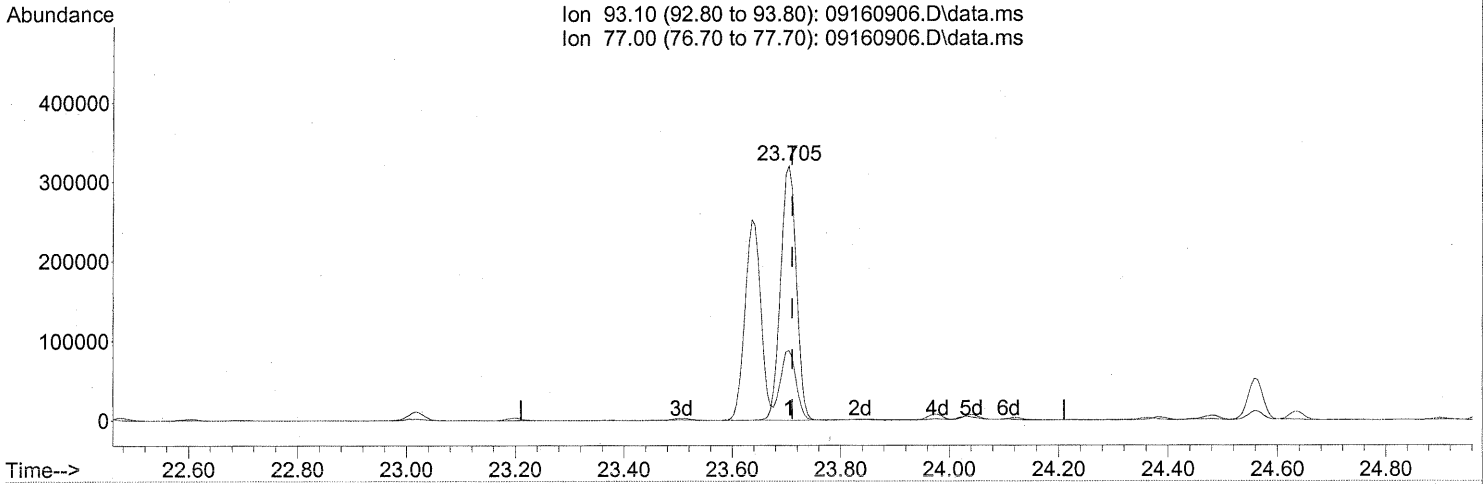
response 45760

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

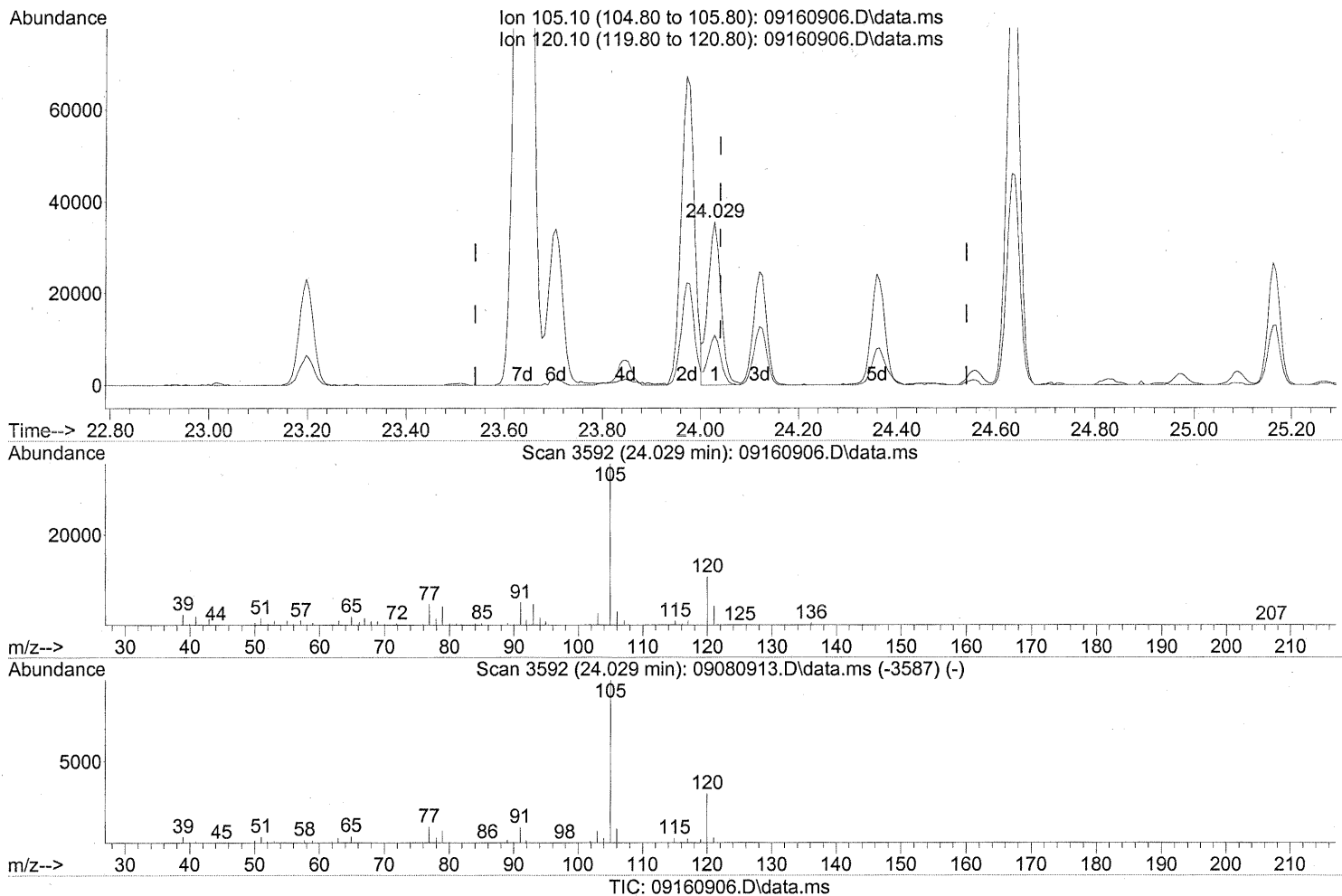
(75) alpha-Pinene (T)
 23.705min (-0.006) 17.47ng
 response 646123

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.029min (-0.011) 0.88ng

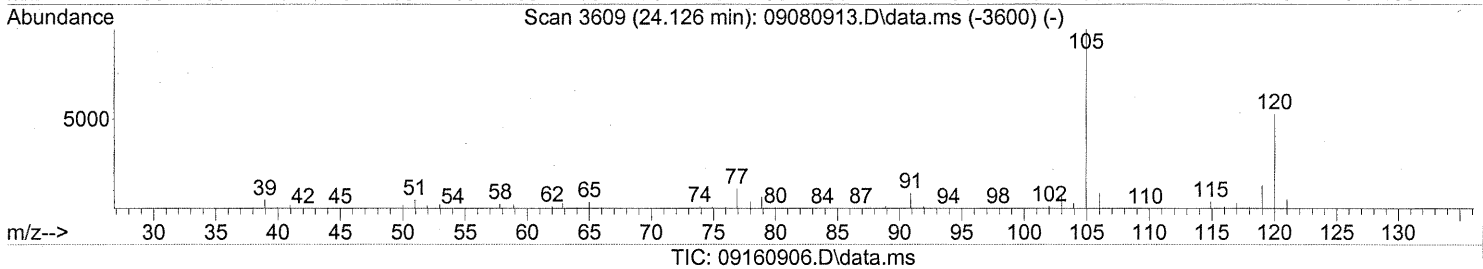
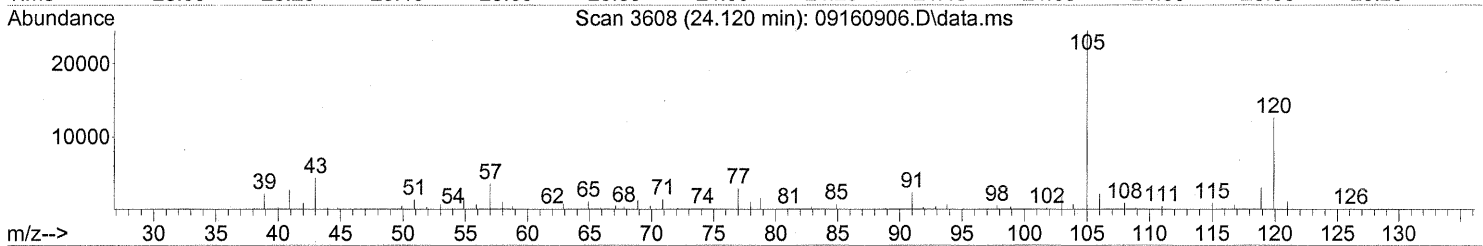
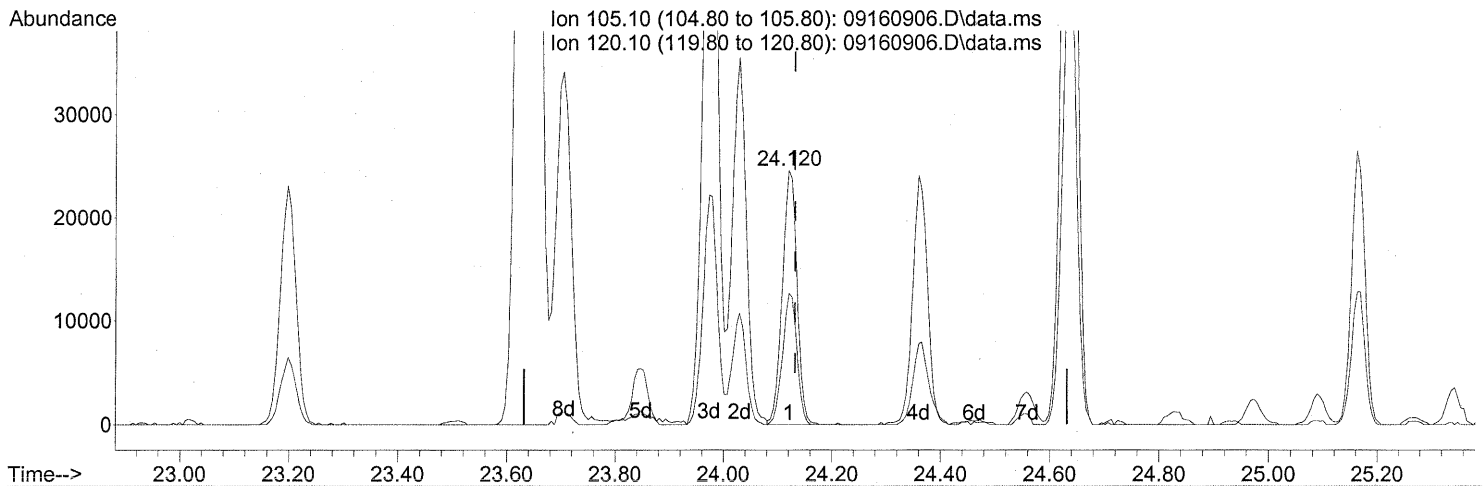
response 64483

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	28.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 0.75ng

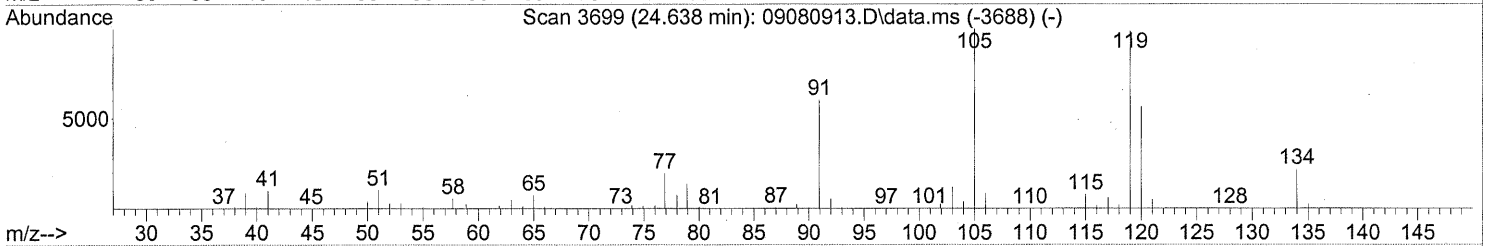
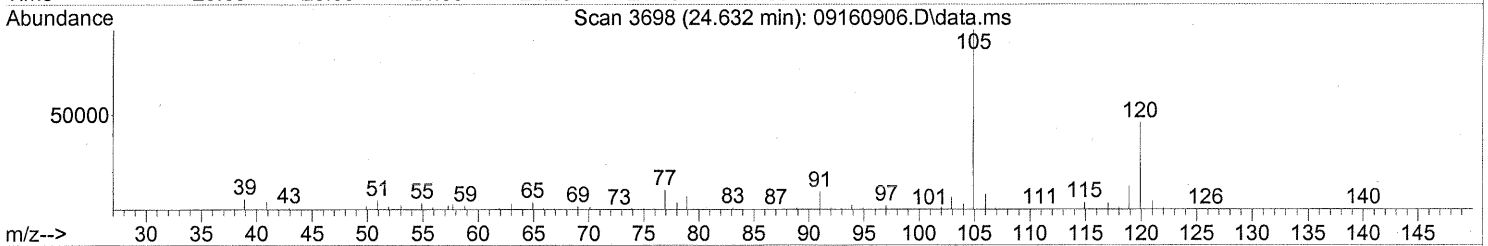
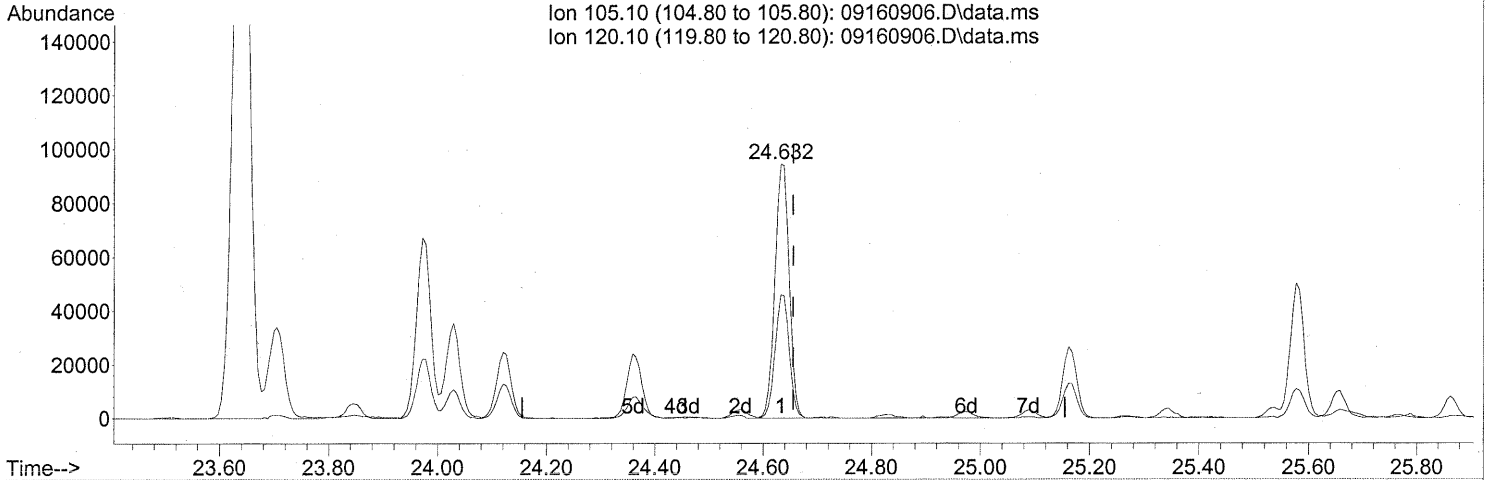
response 46135

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	50.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.632min (-0.023) 2.65ng

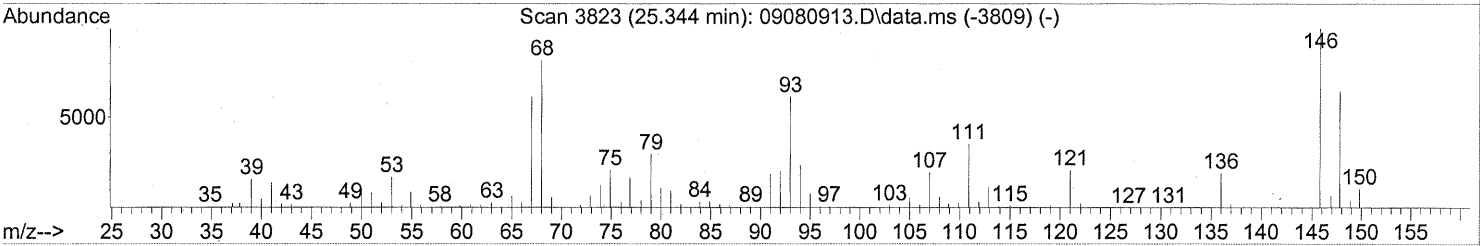
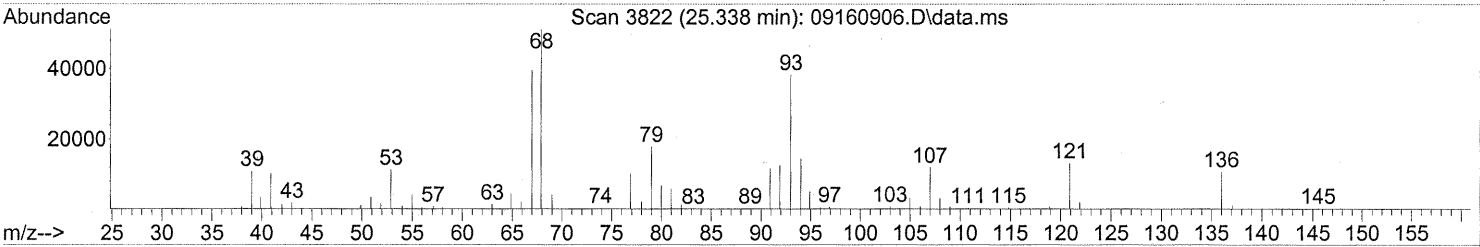
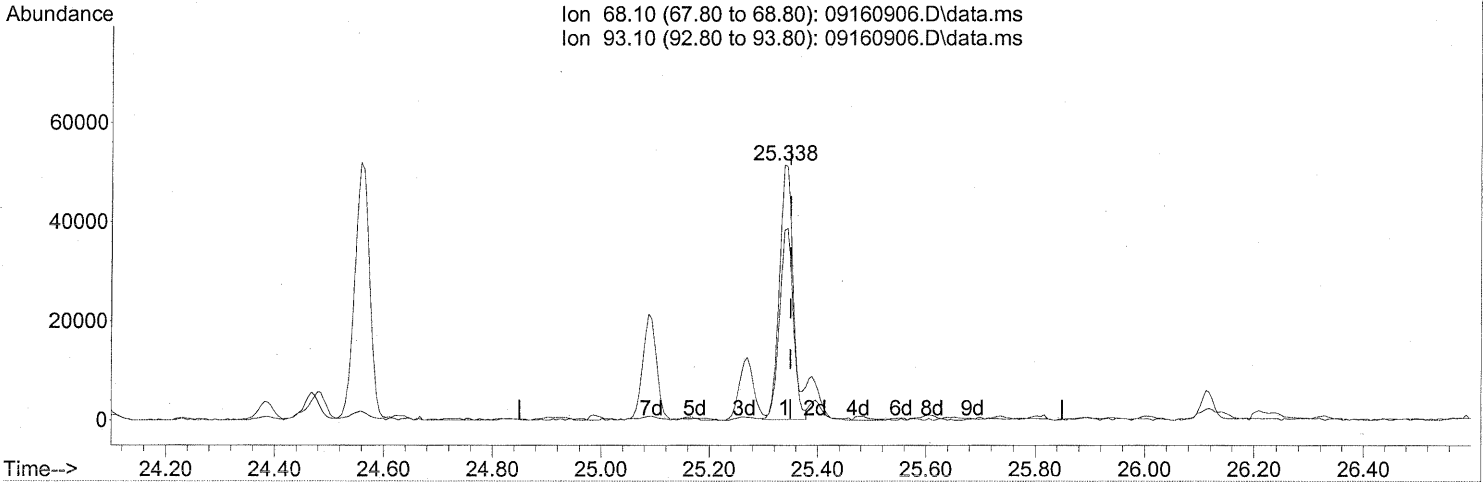
response 172712

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



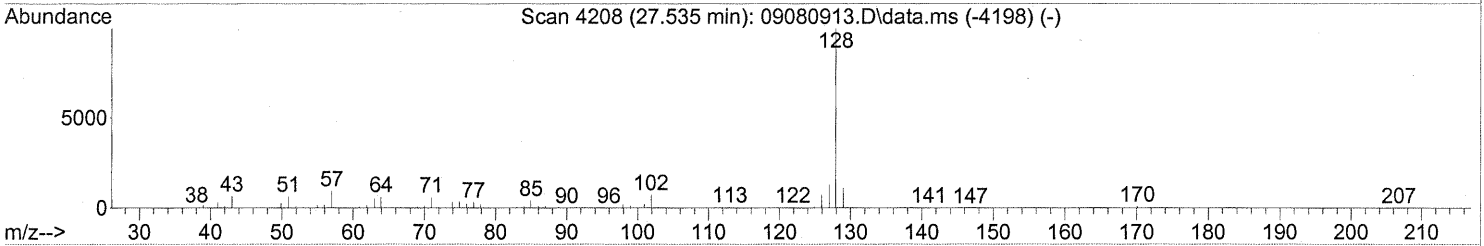
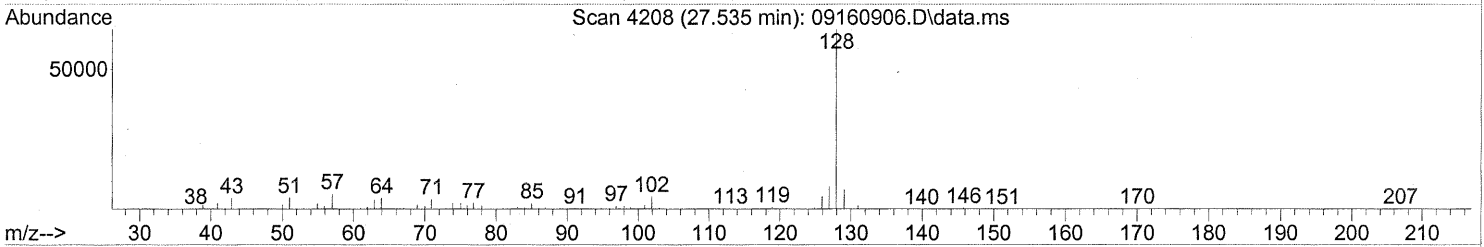
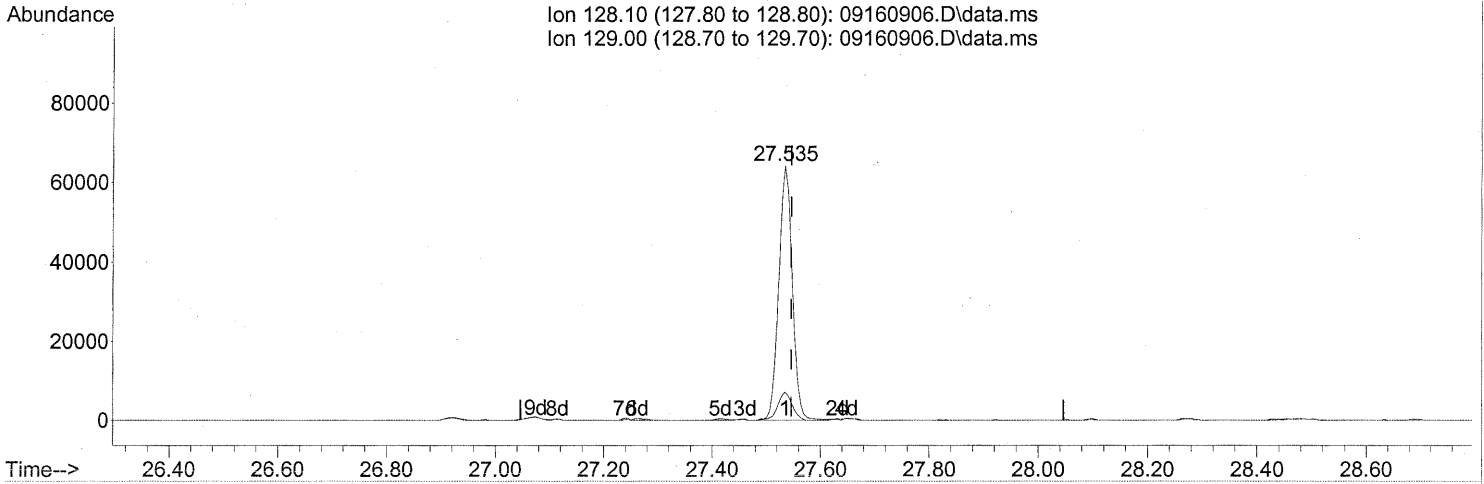
(91) d-Limonene (T)
 25.338min (-0.011) 3.84ng
 response 89992

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	77.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160906.D
 Acq On : 16 Sep 2009 12:18
 Operator : LH
 Sample : P0903145-004 (1000mL)
 Misc : Environmental H & E 102651
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 17 10:54:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160906.D\data.ms

(95) Naphthalene (T)

27.535min (-0.011) 1.18ng

response 111519

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.75
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
 Client Sample ID: 102652
 Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00112

CAS Project ID: P0903145
 CAS Sample ID: P0903145-005

Date Collected: 8/31/09
 Date Received: 9/4/09
 Date Analyzed: 9/16/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.62	ND	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.62	0.57	0.13	
74-87-3	Chloromethane	0.39	0.12	0.19	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	6.8	6.2	3.6	3.3	
75-05-8	Acetonitrile	ND	0.62	ND	0.37	
107-02-8	Acrolein	1.3	0.62	0.55	0.27	
67-64-1	Acetone	15	6.2	6.4	2.6	M1
75-69-4	Trichlorofluoromethane	1.4	0.12	0.24	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.62	ND	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.72	0.12	0.094	0.016	
75-15-0	Carbon Disulfide	0.71	0.62	0.23	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.8	
78-93-3	2-Butanone (MEK)	1.4	0.62	0.49	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: P Date: 9/22/09 **224**
 TO15scan.xls - 75 Compounds - PageNo.:

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102652
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00112

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	1.2	0.62	0.33	0.17	
110-54-3	n-Hexane	ND	0.62	ND	0.18	
67-66-3	Chloroform	ND	0.12	ND	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.62	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.29	0.12	0.091	0.039	
56-23-5	Carbon Tetrachloride	0.57	0.12	0.091	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.019	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	ND	0.62	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.62	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	ND	0.62	ND	0.16	
591-78-6	2-Hexanone	ND	0.62	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	ND	0.62	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102652
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00112

Date Collected: 8/31/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.62	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	ND	0.62	ND	0.14	
179601-23-1	m,p-Xylenes	ND	0.62	ND	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	ND	0.62	ND	0.15	
95-47-6	o-Xylene	ND	0.62	ND	0.14	
111-84-2	n-Nonane	ND	0.62	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	ND	0.62	ND	0.11	
103-65-1	n-Propylbenzene	ND	0.62	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.62	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.62	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.62	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	ND	0.62	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.084	
91-20-3	Naphthalene	ND	0.62	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

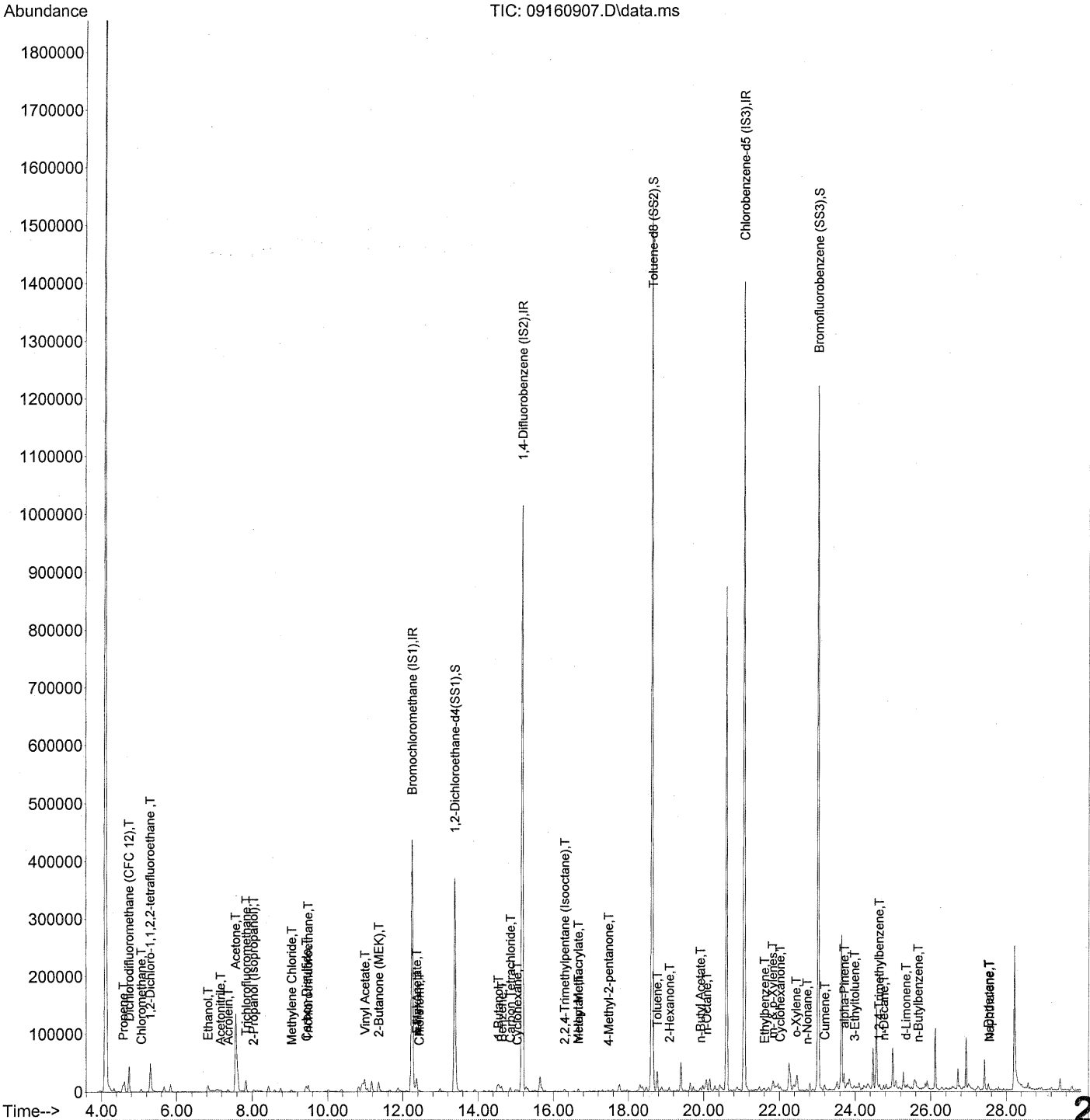
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/22/09 **226**

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652 ✓
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:12:38 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
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 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	281964	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1363739	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	574235	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	375541	24.168	ng	-0.04
Spiked Amount	25.000			Recovery =	96.68%	✓
57) Toluene-d8 (SS2)	18.63	98	1421260	24.726	ng	-0.01
Spiked Amount	25.000			Recovery =	98.92%	✓
73) Bromofluorobenzene (SS3)	23.02	174	549118	26.659	ng	0.00
Spiked Amount	25.000			Recovery =	106.64%	✓

Target Compounds

						Qvalue
2) Propene	4.58	42	5637	0.491 ng	#	38
3) Dichlorodifluoromethan...	4.74	85	49721	2.265 ng		99
4) Chloromethane	5.06	50	5617	0.312 ng		98
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1315	0.100 ng		78
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.70	54	55	N.D.		
8) Bromomethane	6.21	94	551	N.D.		
9) Chloroethane	6.53	64	60	N.D.		
10) Ethanol	6.82	45	45782m	5.500 ng		
11) Acetonitrile	7.17	41	5340	0.254 ng		78
12) Acrolein	7.37	56	6291	1.016 ng		100
13) Acetone	7.56	58	102353	12.206 ng	# M	82
14) Trichlorofluoromethane	7.84	101	22334	1.098 ng		98
15) 2-Propanol (Isopropanol)	8.03	45	7087	0.245 ng		100
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.04	59	287	N.D.		
19) Methylene Chloride	9.04	84	1925	0.151 ng		85
20) 3-Chloro-1-propene (Al...	9.15	41	52	N.D.		
21) Trichlorotrifluoroethane	9.48	151	5820	0.581 ng		87
22) Carbon Disulfide	9.43	76	25310	0.571 ng		97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	10.99	86	8894	3.522 ng	#	1
27) 2-Butanone (MEK)	11.36	72	9329	1.158 ng		92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.34	87	73	N.D.		
30) Ethyl Acetate	12.36	61	3867	0.946 ng		95
31) n-Hexane	12.37	57	3694	0.228 ng		9

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
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 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:12:38 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.43	83	1830	0.092 ng	#	18
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.53	62	490	N.D.		
38) 1,1,1-Trichloroethane	13.94	97	626	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.54	56	19099	1.552 ng		80
41) Benzene	14.63	78	11428	0.235 ng		99
42) Carbon Tetrachloride	14.86	117	6721	0.460 ng		95
43) Cyclohexane	15.04	84	2088	0.118 ng	#	83
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.21	130	109	N.D.		
48) 1,4-Dioxane	16.20	88	282	N.D.		
49) 2,2,4-Trimethylpentane...	16.30	57	6142	0.125 ng		88
50) Methyl Methacrylate	16.66	100	545	0.098 ng	#	1
51) n-Heptane	16.66	71	1748	0.141 ng		86
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	598	0.055 ng	#	49
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	22525	0.420 ng		100
59) 2-Hexanone	19.09	43	5913	0.229 ng		100
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	3472	0.117 ng		81
63) n-Octane	20.07	57	3262	0.324 ng		87
64) Tetrachloroethene	20.26	166	496	N.D.		
65) Chlorobenzene	21.12	112	58	N.D.		
66) Ethylbenzene	21.60	91	4814	0.082 ng		95
67) m- & p-Xylenes	21.82	91	9158	0.199 ng		96
68) Bromoform	21.92	173	60	N.D.		
69) Styrene	22.29	104	1761	N.D.		
70) o-Xylene	22.44	91	3611	0.077 ng	#	26
71) n-Nonane	22.72	43	1318	0.058 ng		88
72) 1,1,2,2-Tetrachloroethane	22.45	83	537	N.D.		
74) Cumene	23.19	105	3883	0.060 ng		92
75) alpha-Pinene	23.70	93	15036	0.497 ng		89
76) n-Propylbenzene	23.84	91	1544	N.D.		
77) 3-Ethyltoluene	23.98	105	3452	0.057 ng		86
78) 4-Ethyltoluene	24.03	105	1574	N.D.		
79) 1,3,5-Trimethylbenzene	24.13	105	1532	N.D.		

Data Path : J:\MS16\DATA\2009_09\16\
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 Sample : P0903145-005 (1000mL)
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 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:12:38 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration

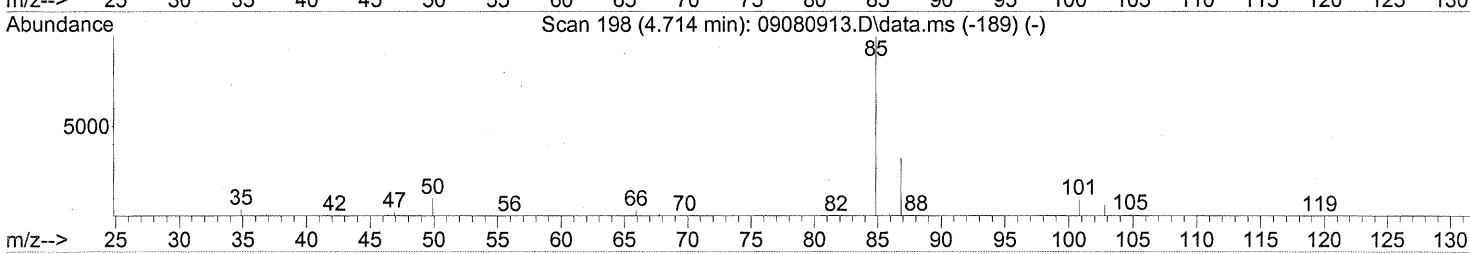
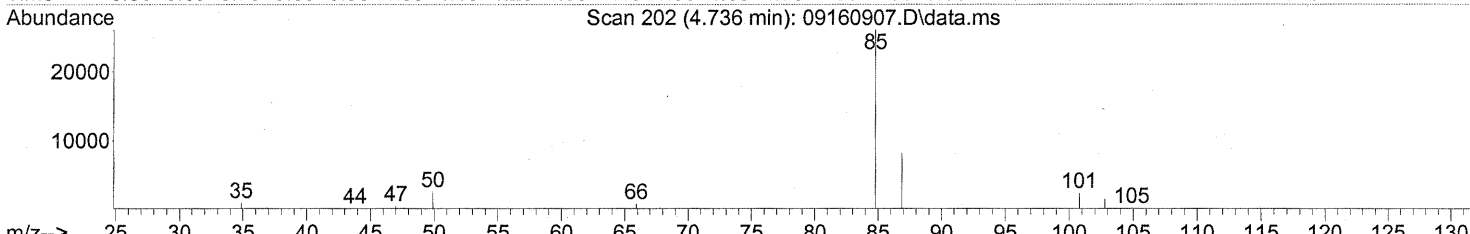
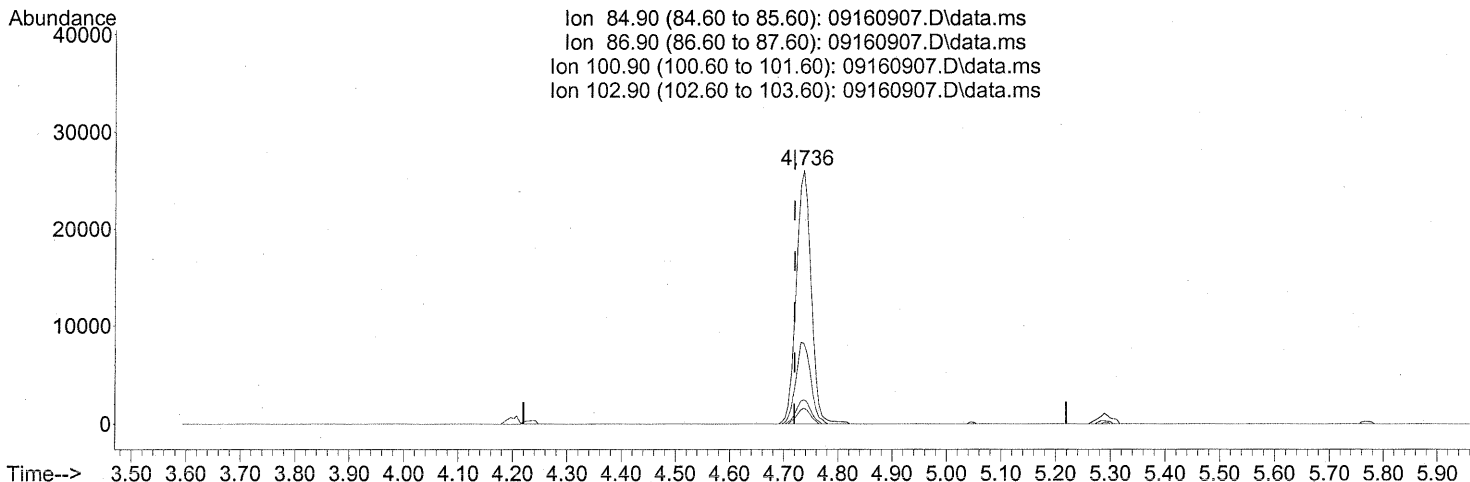
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	116	N.D.		
81) 2-Ethyltoluene	24.36	105	2255	N.D.		
82) 1,2,4-Trimethylbenzene	24.63	105	3742	0.070 ng		84
83) n-Decane	24.75	57	3402	0.122 ng	#	38
84) Benzyl Chloride	24.79	91	1583	N.D.		
85) 1,3-Dichlorobenzene	24.92	146	637	N.D.		
86) 1,4-Dichlorobenzene	24.92	146	637	N.D.		
87) sec-Butylbenzene	24.99	105	480	N.D.		
88) 4-Isopropyltoluene (p-...	25.17	119	1724	N.D.		
89) 1,2,3-Trimethylbenzene	25.16	105	1102	N.D.		
90) 1,2-Dichlorobenzene	24.92	146	637	N.D.		
91) d-Limonene	25.34	68	1958	0.102 ng	#	73
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	1578	N.D.		
94) 1,2,4-Trichlorobenzene	26.93	180	103	N.D.		
95) Naphthalene	27.54	128	4297	0.055 ng		93
96) n-Dodecane	27.52	57	3755	0.118 ng	#	76
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.01	55	4213	0.212 ng		98
99) tert-Butylbenzene	24.57	119	414	N.D.		
100) n-Butylbenzene	25.66	91	2716	0.051 ng	#	33

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160907.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.736min (+0.017) 2.27ng

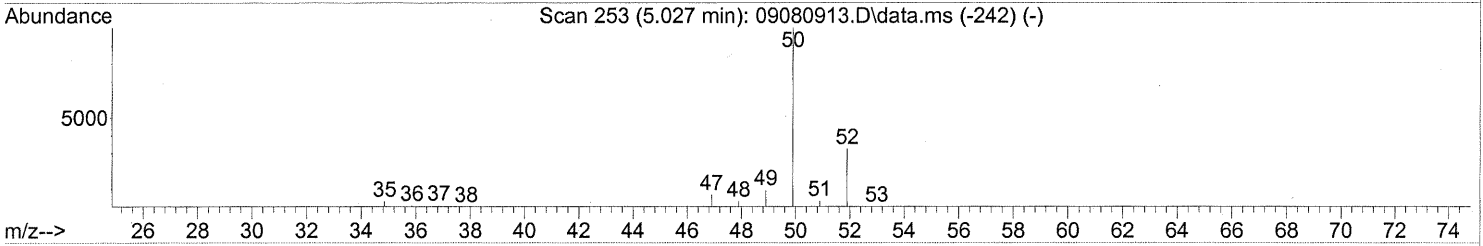
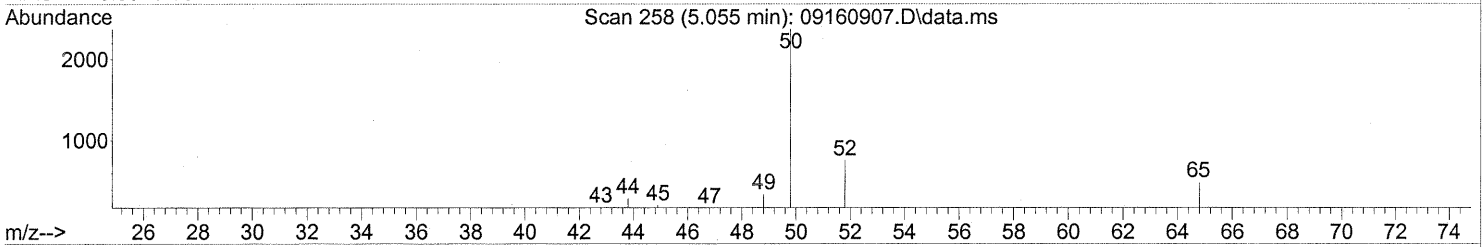
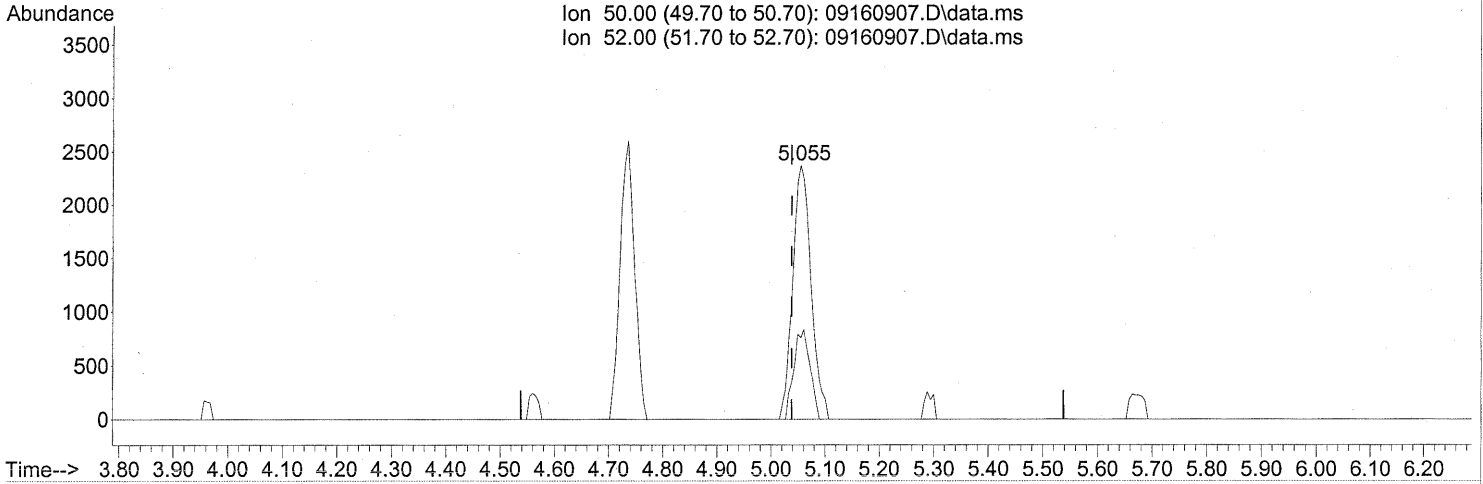
response 49721

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.22
100.90	8.60	9.23
102.90	5.90	5.58

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
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TIC: 09160907.D\data.ms

(4) Chloromethane (T)

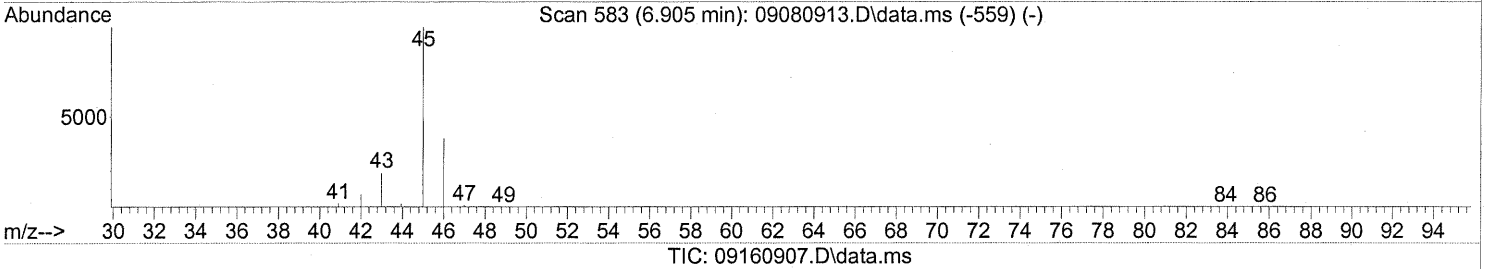
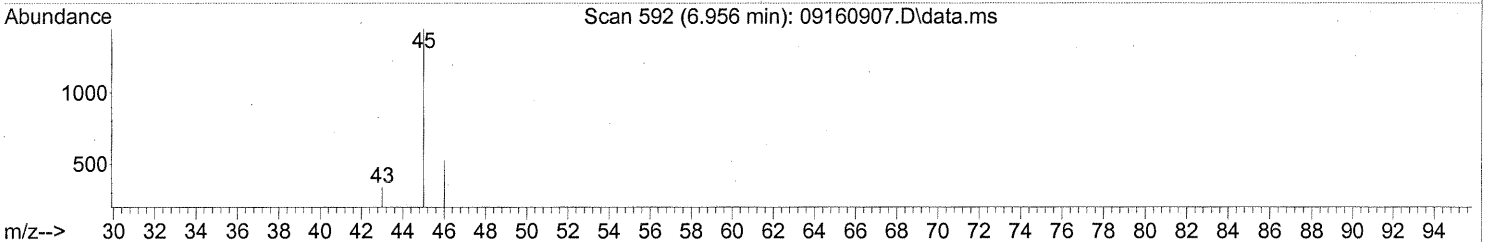
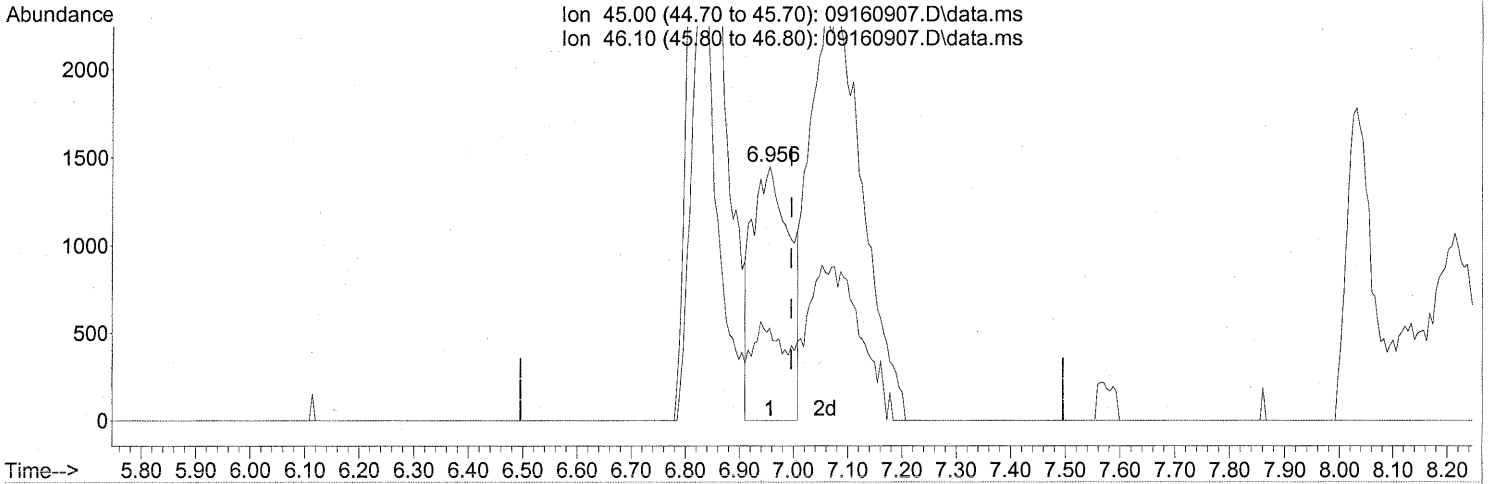
5.055min (+0.017) 0.31ng
 response 5617

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	31.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.956min (-0.040) 0.84ng

response 6978

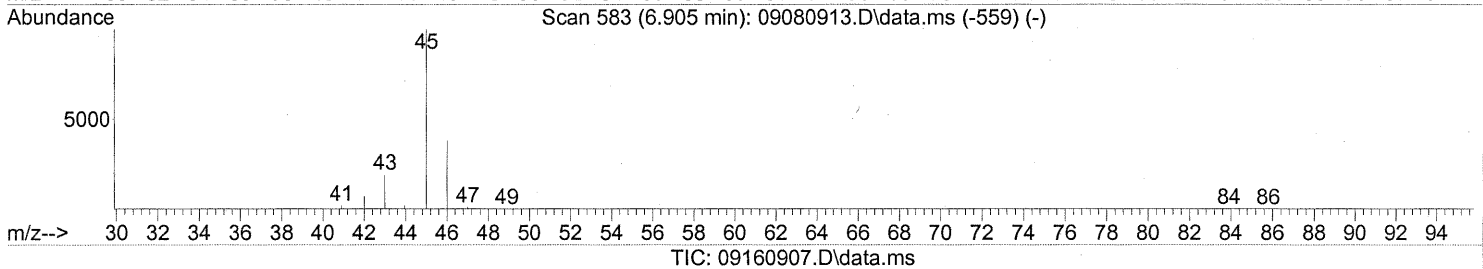
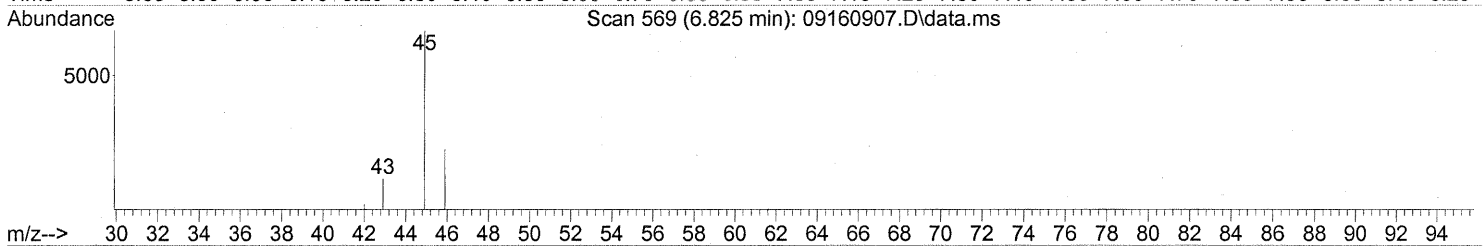
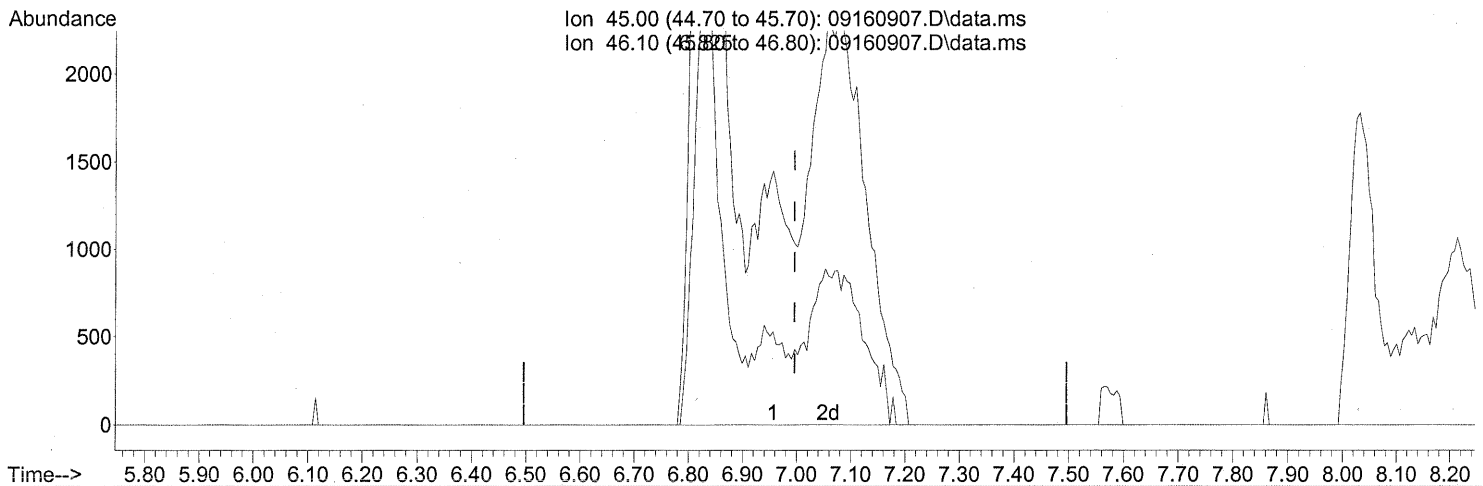
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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(10) Ethanol (T)
 6.825min (-0.171) 5.50ng m
 response 45782

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	5.75#
0.00	0.00	0.00
0.00	0.00	0.00

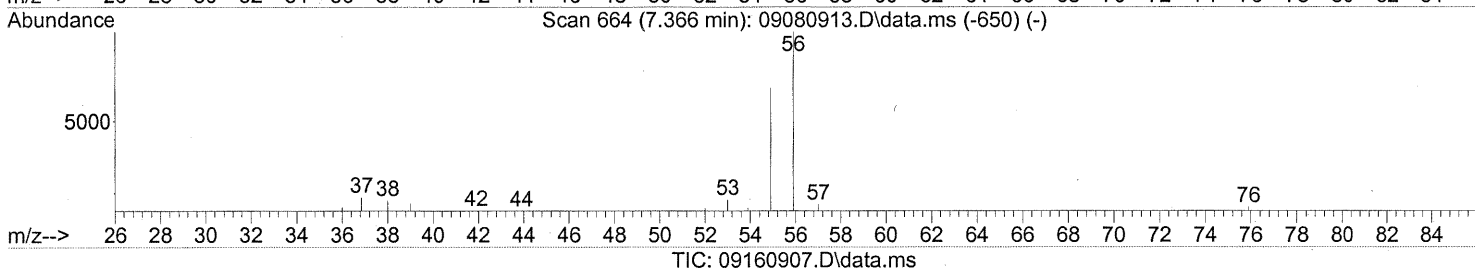
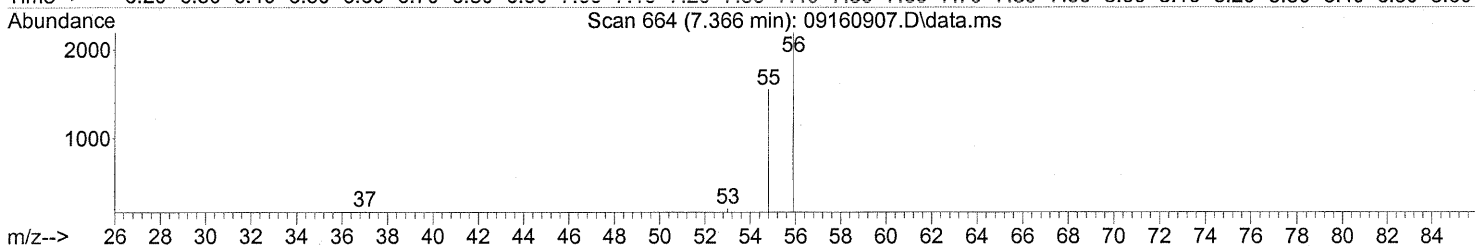
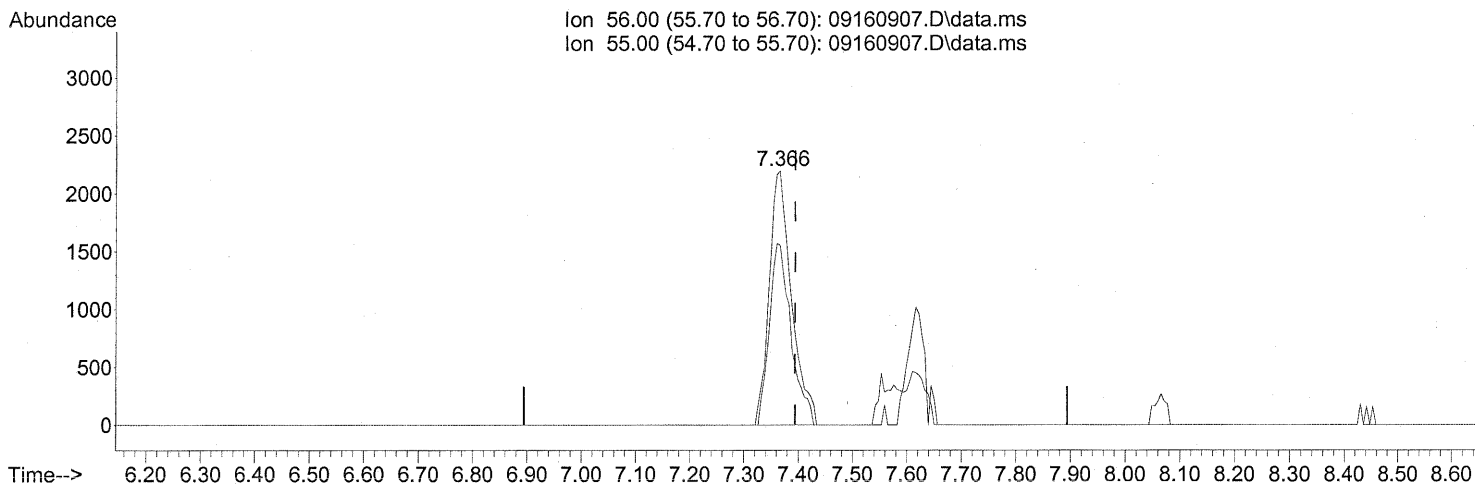
SP → IC
UH 9/18/09

PA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.366min (-0.028) 1.02ng

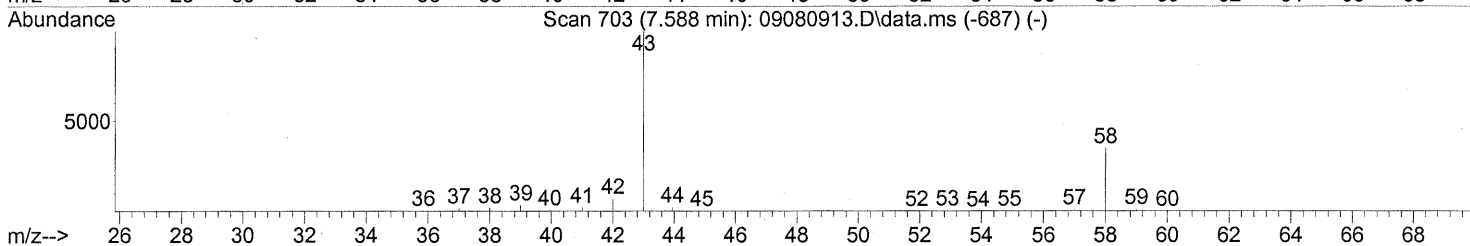
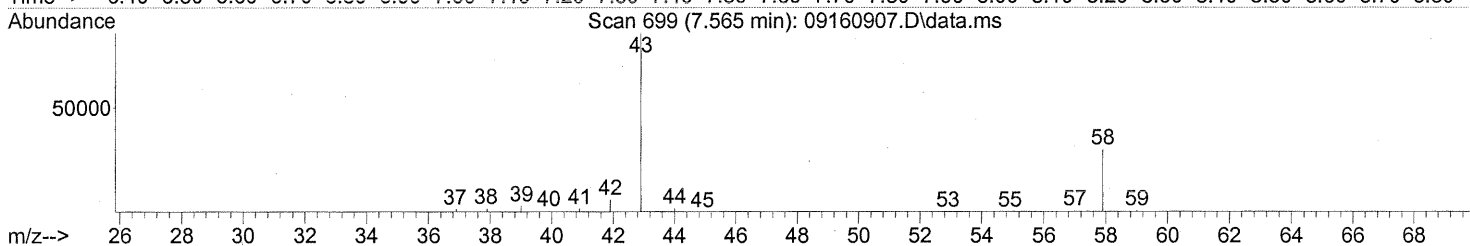
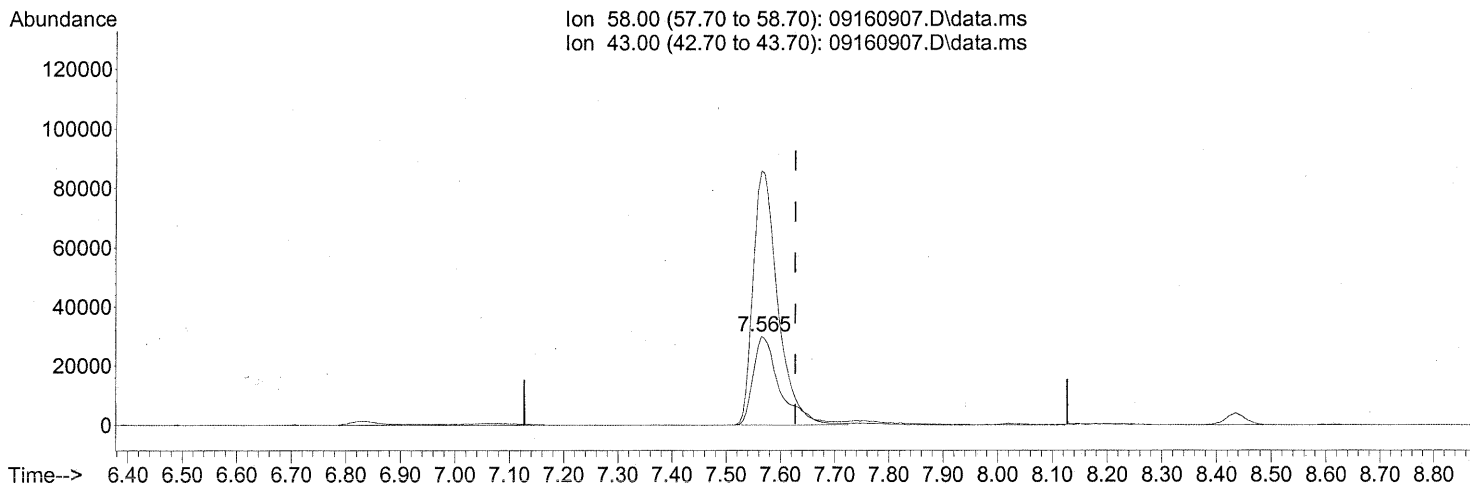
response 6291

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	69.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160907.D\data.ms

(13) Acetone (T)

7.565min (-0.063) 12.21ng *M*

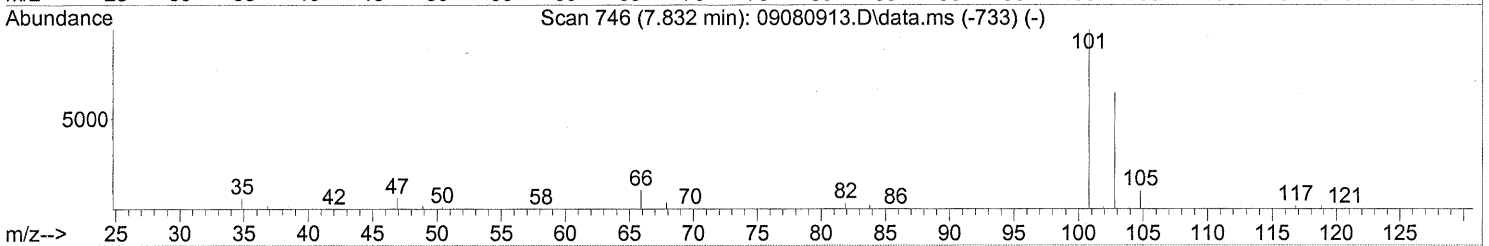
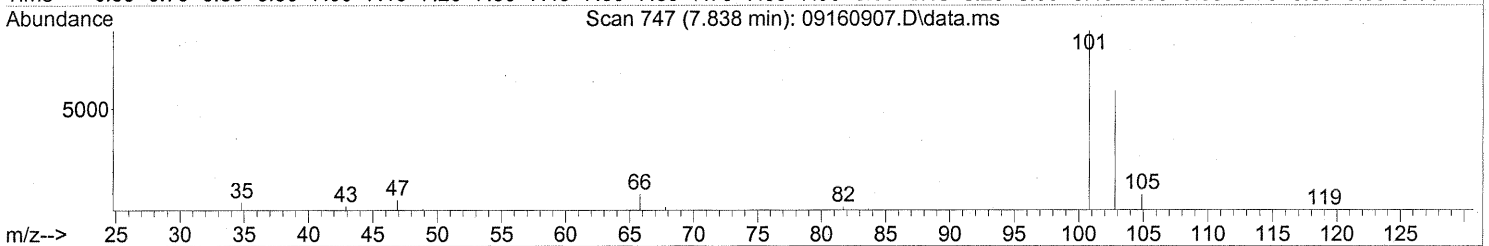
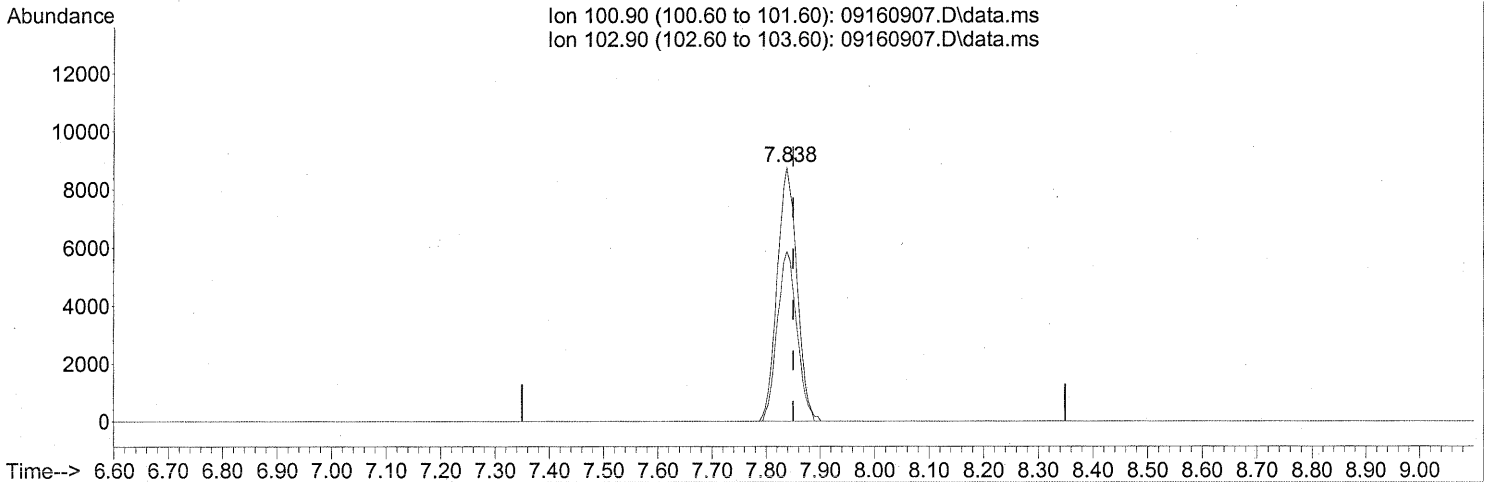
response 102353

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	273.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 07:23:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160907.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.10ng

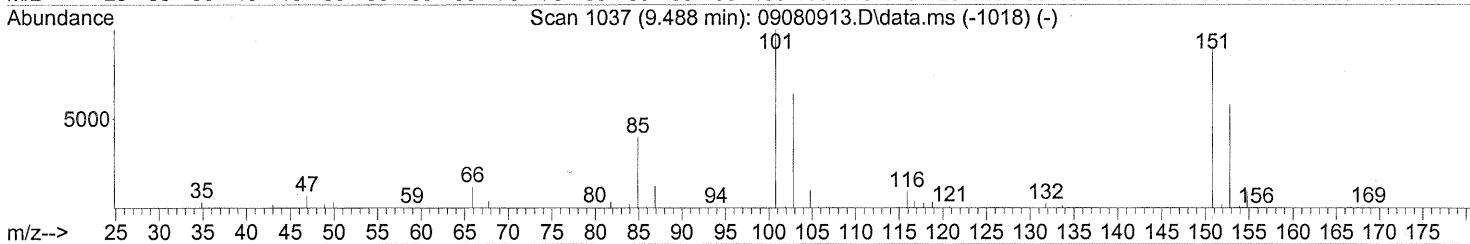
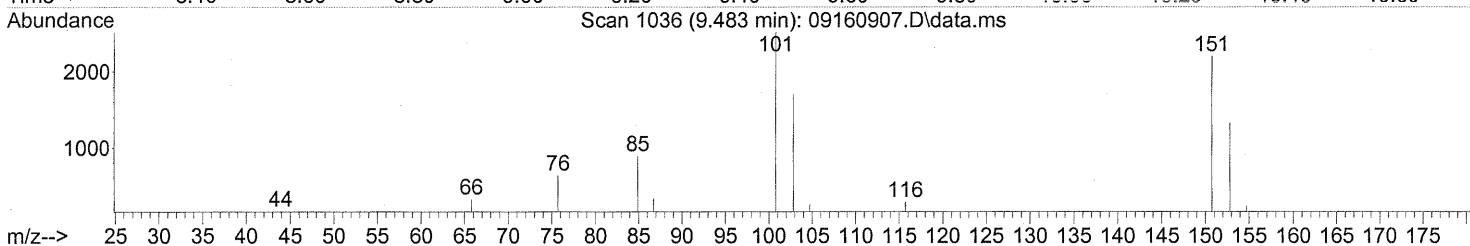
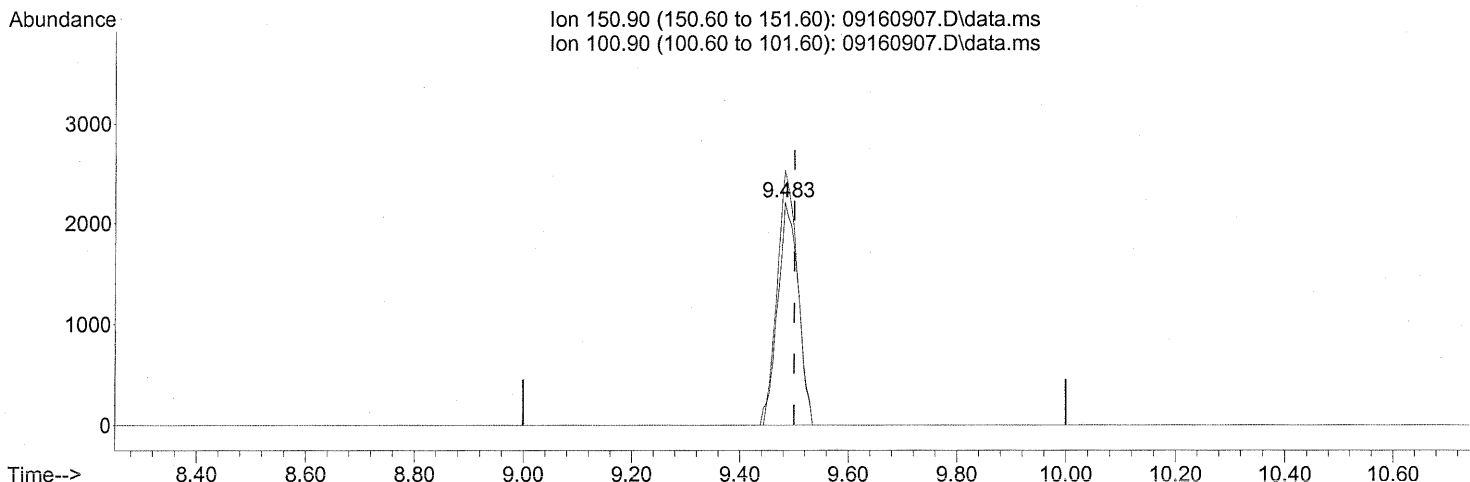
response 22334

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	66.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160907.D
Acq On : 16 Sep 2009 12:56
Operator : LH
Sample : P0903145-005 (1000mL)
Misc : Environmental H & E 102652
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160907.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.483min (-0.017) 0.58ng

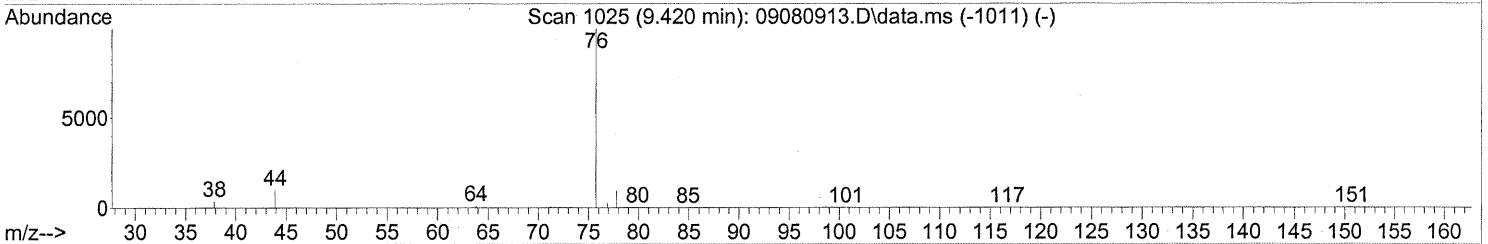
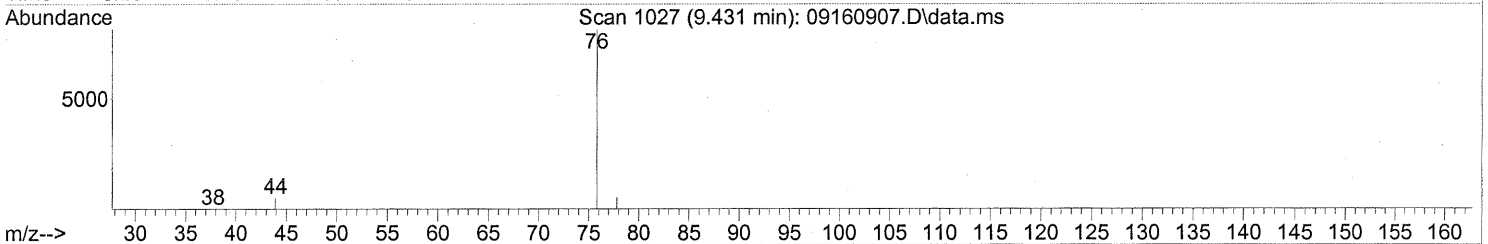
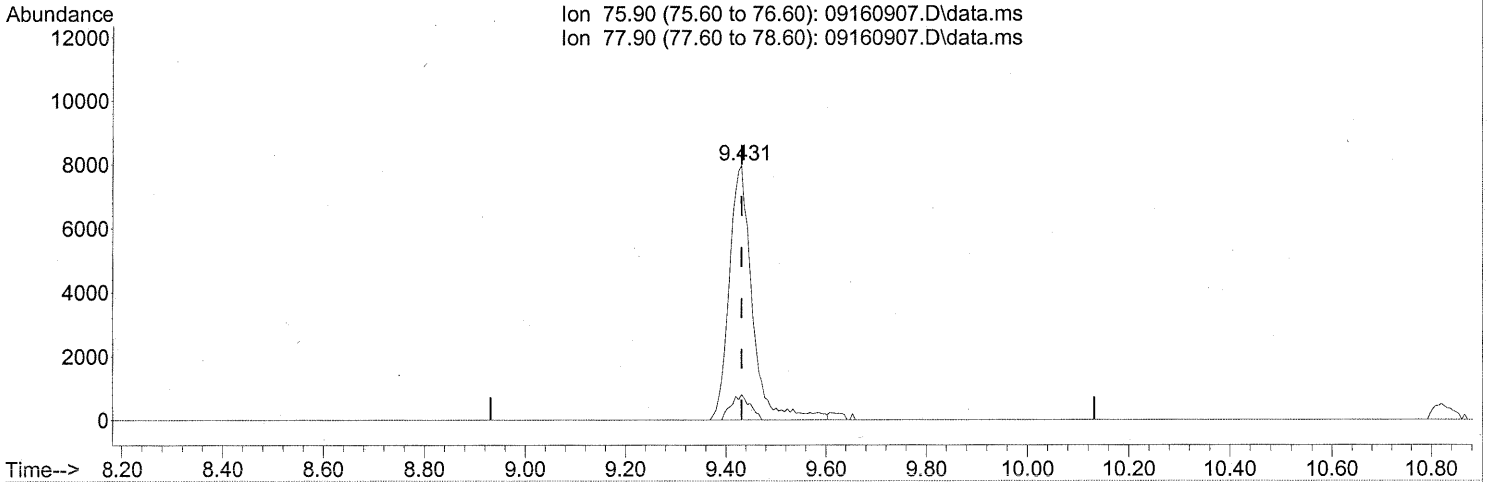
response 5820

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	113.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160907.D
Acq On : 16 Sep 2009 12:56
Operator : LH
Sample : P0903145-005 (1000mL)
Misc : Environmental H & E 102652
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160907.D\data.ms

(22) Carbon Disulfide (T)

9.431min (0.000) 0.57ng

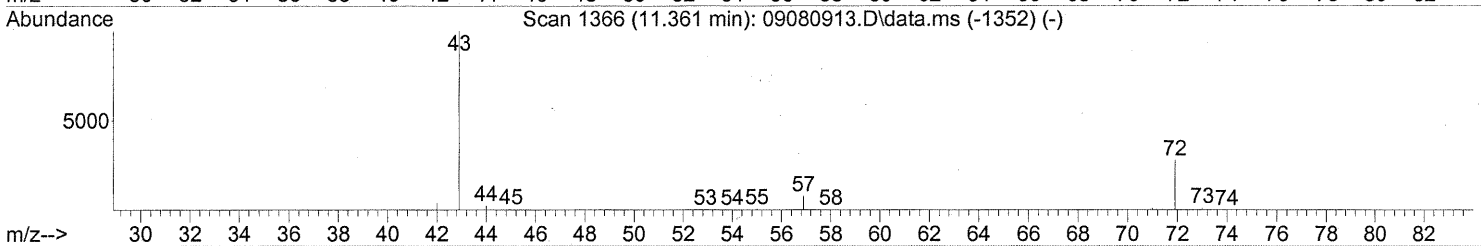
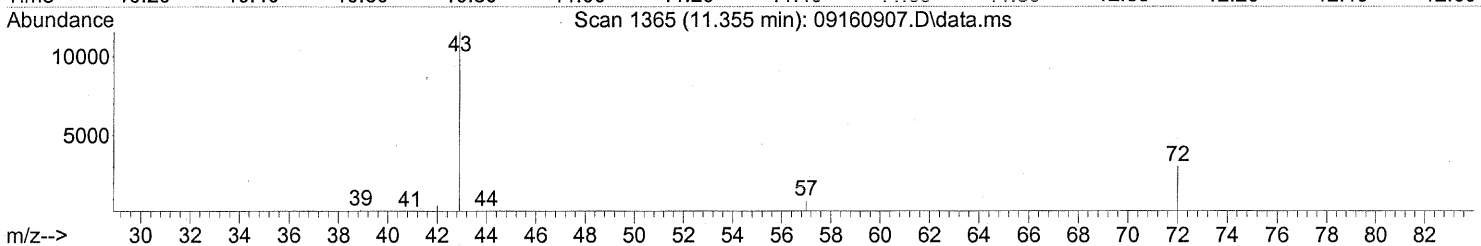
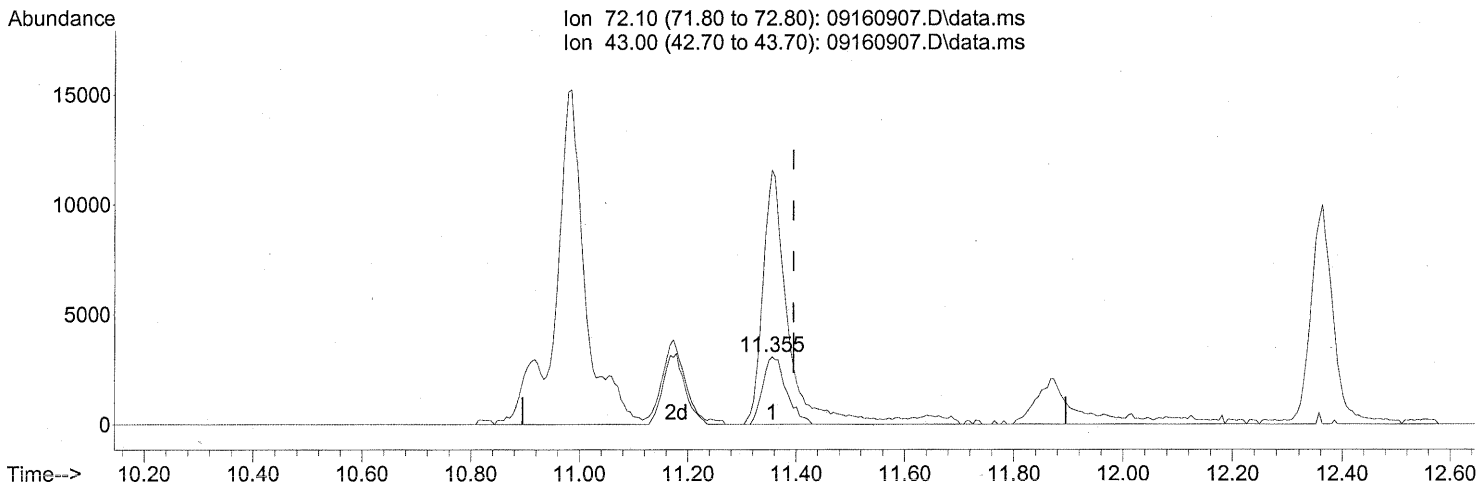
response 25310

Ion	Exp%	Act%
75.90	100	100
77.90	9.10	8.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160907.D\data.ms

(27) 2-Butanone (MEK) (T)

11.355min (-0.040) 1.16ng

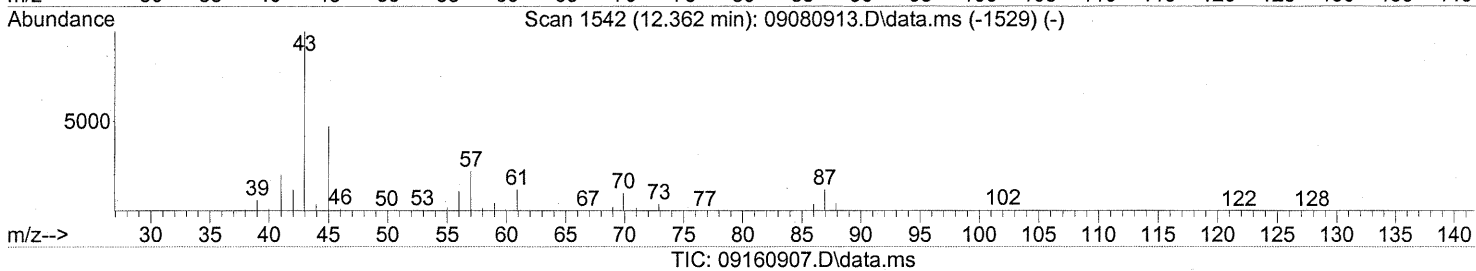
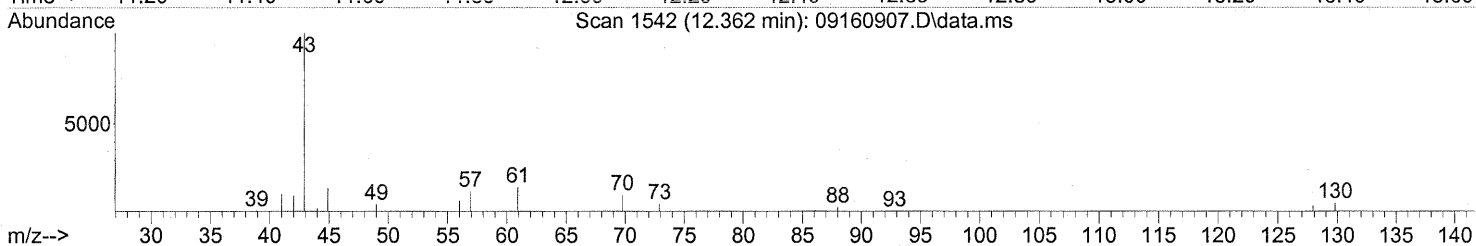
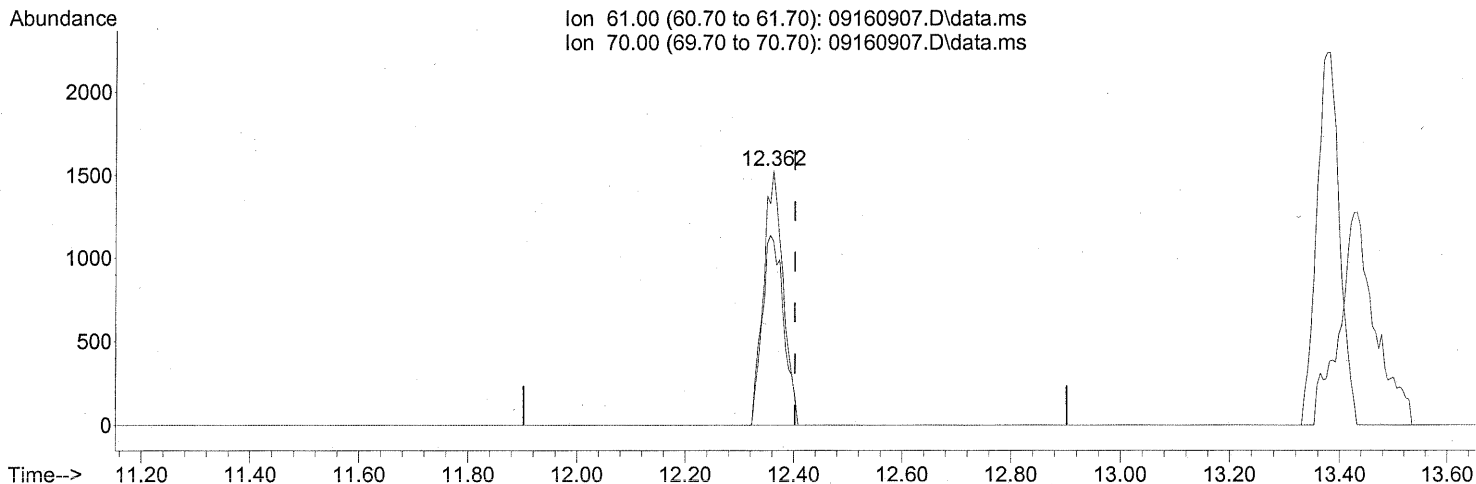
response 9329

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	403.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



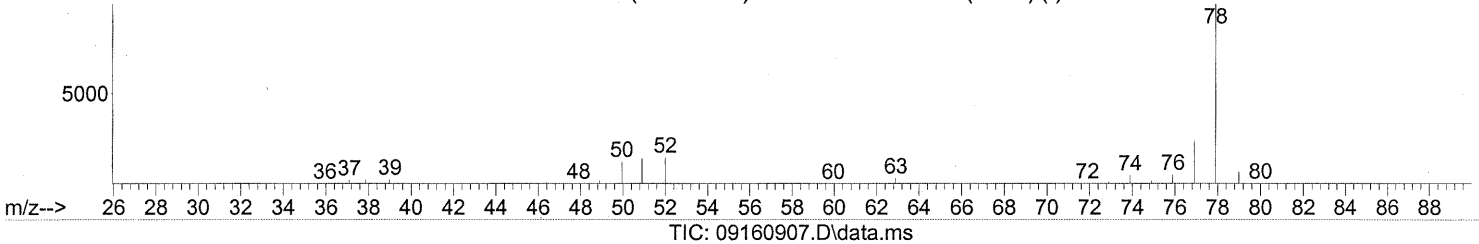
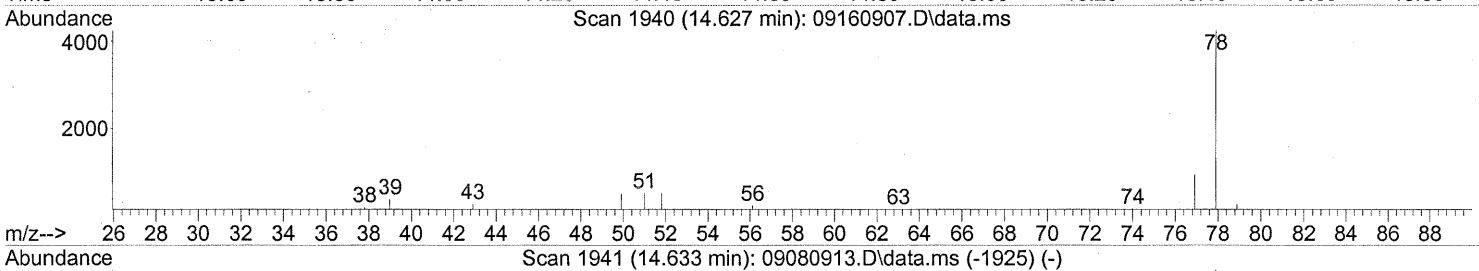
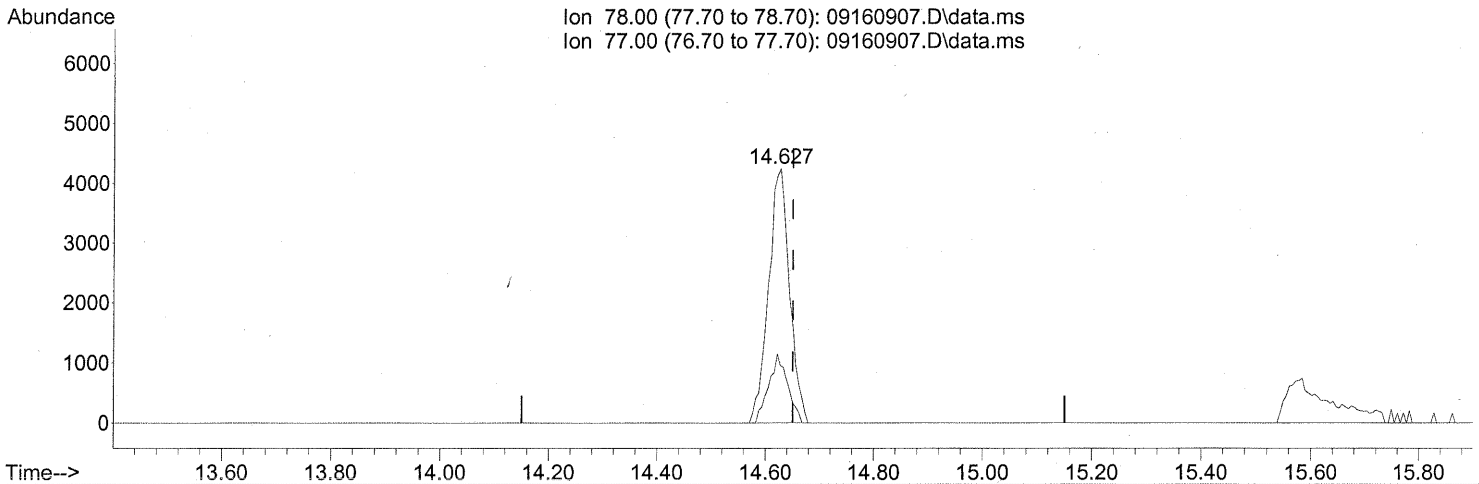
(30) Ethyl Acetate (T)
 12.362min (-0.040) 0.95ng
 response 3867

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	80.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.627min (-0.023) 0.23ng

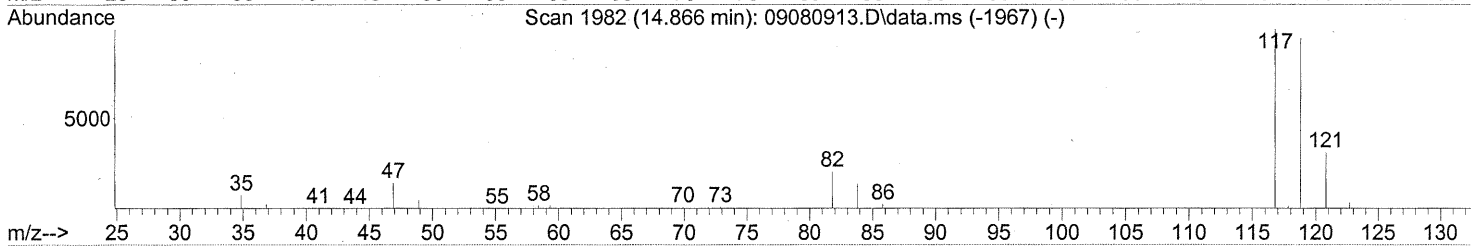
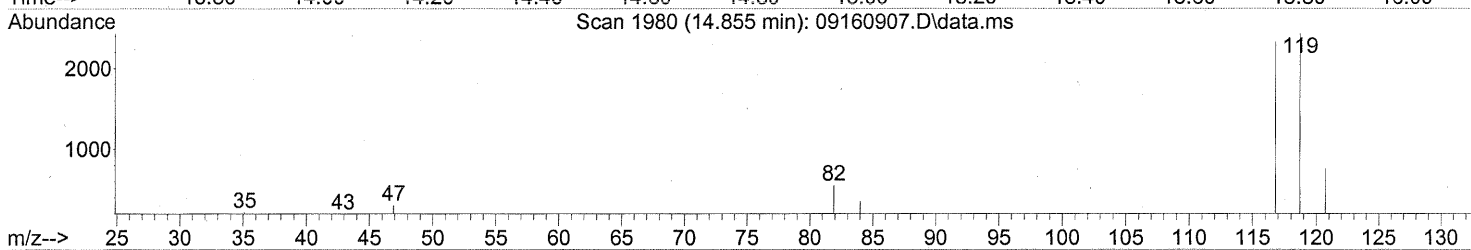
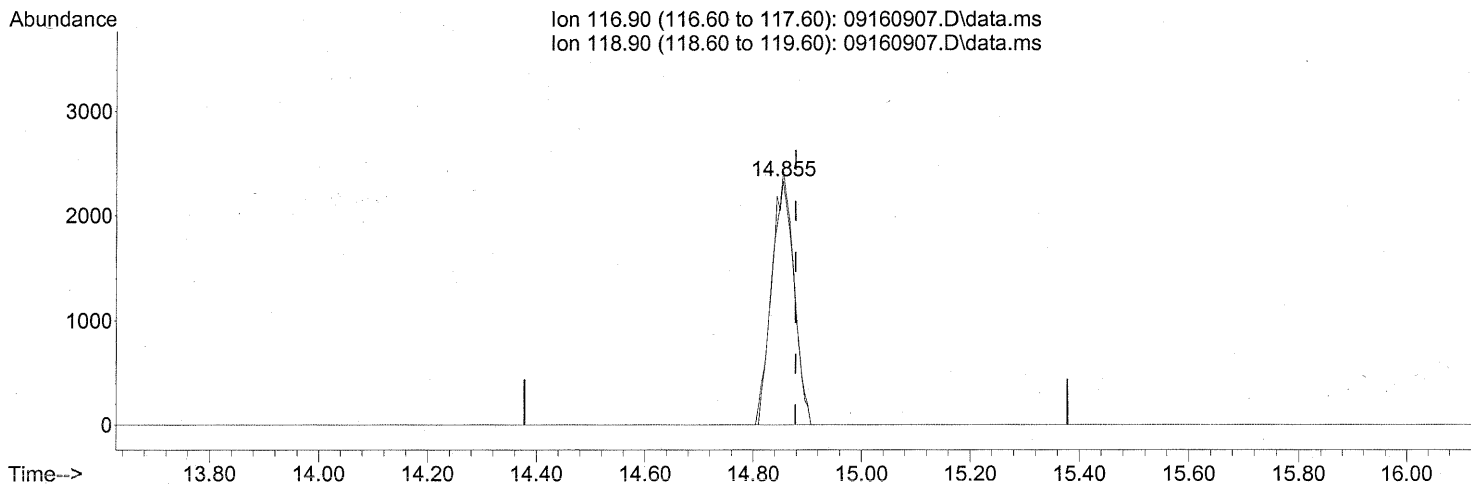
response 11428

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	24.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160907.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.46ng

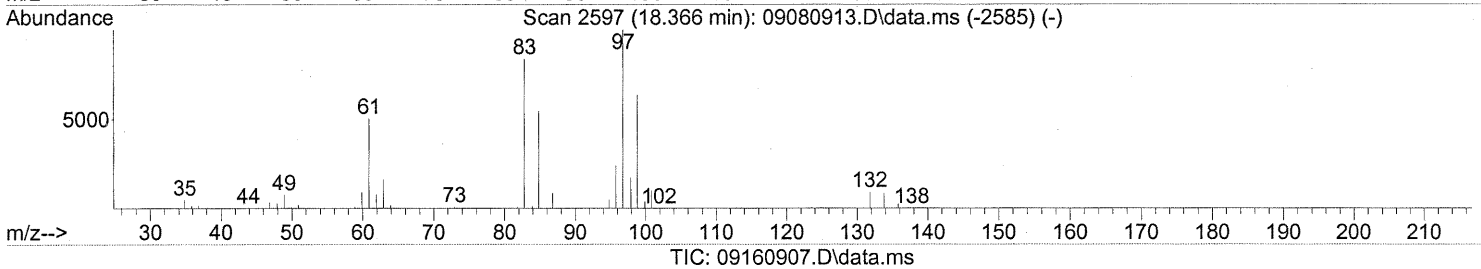
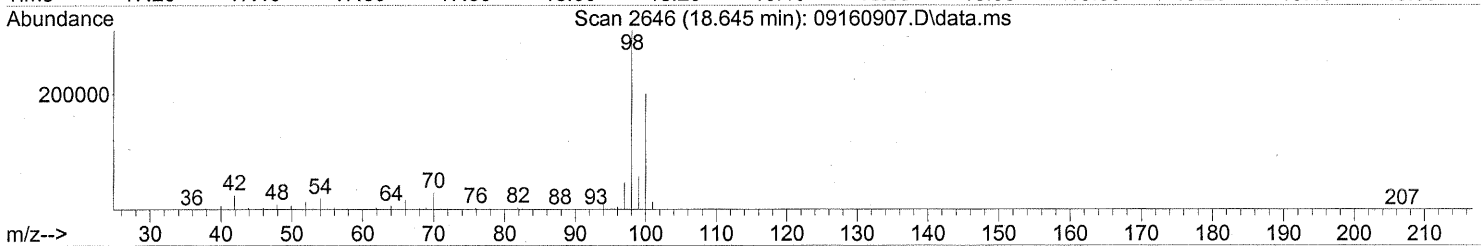
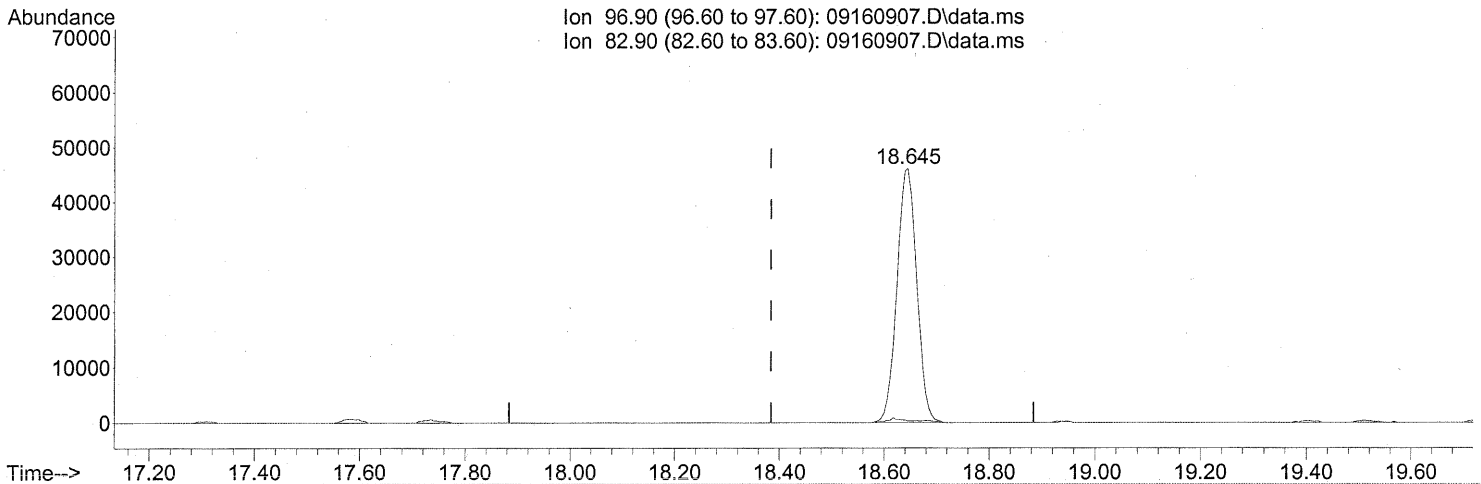
response 6721

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	102.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160907.D
 Acq On : 16 Sep 2009 12:56
 Operator : LH
 Sample : P0903145-005 (1000mL)
 Misc : Environmental H & E 102652
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 17 11:10:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.89ng

response 121002

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/18/09

SA 9/19/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102715

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P0903145-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01211

Date Collected: 9/1/09

Date Received: 9/4/09

Date Analyzed: 9/16/09

Volume(s) Analyzed: 0.45 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	21	1.4	12	0.79	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	1.4	0.56	0.28	
74-87-3	Chloromethane	1.2	0.27	0.60	0.13	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.4	ND	0.20	
75-01-4	Vinyl Chloride	ND	0.27	ND	0.11	
106-99-0	1,3-Butadiene	ND	0.27	ND	0.12	
74-83-9	Bromomethane	ND	0.27	ND	0.070	
75-00-3	Chloroethane	ND	0.27	ND	0.10	
64-17-5	Ethanol	560	14	300	7.3	
75-05-8	Acetonitrile	99	1.4	59	0.81	
107-02-8	Acrolein	11	1.4	4.6	0.60	
67-64-1	Acetone	140	14	58	5.8	M1
75-69-4	Trichlorofluoromethane	1.7	0.27	0.31	0.049	
67-63-0	2-Propanol (Isopropyl Alcohol)	120	1.4	51	0.56	
107-13-1	Acrylonitrile	ND	1.4	ND	0.63	
75-35-4	1,1-Dichloroethene	ND	0.27	ND	0.069	
75-09-2	Methylene Chloride	1.5	1.4	0.44	0.39	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.27	ND	0.087	
76-13-1	Trichlorotrifluoroethane	0.65	0.27	0.084	0.036	
75-15-0	Carbon Disulfide	ND	1.4	ND	0.44	
156-60-5	trans-1,2-Dichloroethene	ND	0.27	ND	0.069	
75-34-3	1,1-Dichloroethane	ND	0.27	ND	0.068	
1634-04-4	Methyl tert-Butyl Ether	0.79	0.27	0.22	0.076	
108-05-4	Vinyl Acetate	ND	14	ND	3.9	
78-93-3	2-Butanone (MEK)	23	1.4	7.8	0.46	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102715

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P0903145-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01211

Date Collected: 9/1/09

Date Received: 9/4/09

Date Analyzed: 9/16/09

Volume(s) Analyzed: 0.45 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.27	ND	0.069	
141-78-6	Ethyl Acetate	20	1.4	5.6	0.38	
110-54-3	n-Hexane	120	1.4	35	0.39	
67-66-3	Chloroform	2.9	0.27	0.58	0.056	
109-99-9	Tetrahydrofuran (THF)	2.1	1.4	0.71	0.46	
107-06-2	1,2-Dichloroethane	5.9	0.27	1.5	0.068	
71-55-6	1,1,1-Trichloroethane	ND	0.27	ND	0.050	
71-43-2	Benzene	52	0.27	16	0.086	
56-23-5	Carbon Tetrachloride	0.62	0.27	0.099	0.043	
110-82-7	Cyclohexane	14	1.4	4.2	0.40	
78-87-5	1,2-Dichloropropane	ND	0.27	ND	0.059	
75-27-4	Bromodichloromethane	ND	0.27	ND	0.041	
79-01-6	Trichloroethene	1.1	0.27	0.21	0.051	
123-91-1	1,4-Dioxane	ND	1.4	ND	0.38	
80-62-6	Methyl Methacrylate	ND	1.4	ND	0.33	
142-82-5	n-Heptane	42	1.4	10	0.33	
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	ND	0.30	
108-10-1	4-Methyl-2-pentanone	1.9	1.4	0.47	0.33	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	ND	0.30	
79-00-5	1,1,2-Trichloroethane	ND	0.27	ND	0.050	
108-88-3	Toluene	210	1.4	56	0.36	
591-78-6	2-Hexanone	ND	1.4	ND	0.33	
124-48-1	Dibromochloromethane	ND	0.27	ND	0.032	
106-93-4	1,2-Dibromoethane	ND	0.27	ND	0.036	
123-86-4	n-Butyl Acetate	4.9	1.4	1.0	0.29	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102715
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01211

Date Collected: 9/1/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 0.45 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	18	1.4	3.8	0.29	
127-18-4	Tetrachloroethene	ND	0.27	ND	0.040	
108-90-7	Chlorobenzene	ND	0.27	ND	0.059	
100-41-4	Ethylbenzene	42	1.4	9.7	0.31	
179601-23-1	m,p-Xylenes	140	1.4	33	0.31	
75-25-2	Bromoform	ND	1.4	ND	0.13	
100-42-5	Styrene	2.7	1.4	0.63	0.32	
95-47-6	o-Xylene	47	1.4	11	0.31	
111-84-2	n-Nonane	12	1.4	2.3	0.26	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.27	ND	0.040	
98-82-8	Cumene	4.0	1.4	0.81	0.28	
80-56-8	alpha-Pinene	110	1.4	20	0.25	
103-65-1	n-Propylbenzene	9.3	1.4	1.9	0.28	
622-96-8	4-Ethyltoluene	17	1.4	3.4	0.28	
108-67-8	1,3,5-Trimethylbenzene	15	1.4	3.0	0.28	
95-63-6	1,2,4-Trimethylbenzene	52	1.4	11	0.28	
100-44-7	Benzyl Chloride	ND	0.27	ND	0.053	
541-73-1	1,3-Dichlorobenzene	ND	0.27	ND	0.045	
106-46-7	1,4-Dichlorobenzene	0.87	0.27	0.14	0.045	
95-50-1	1,2-Dichlorobenzene	ND	0.27	ND	0.045	
5989-27-5	d-Limonene	35	1.4	6.2	0.25	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	ND	0.14	
120-82-1	1,2,4-Trichlorobenzene	ND	1.4	ND	0.18	
91-20-3	Naphthalene	9.0	1.4	1.7	0.26	
87-68-3	Hexachlorobutadiene	ND	1.4	ND	0.13	

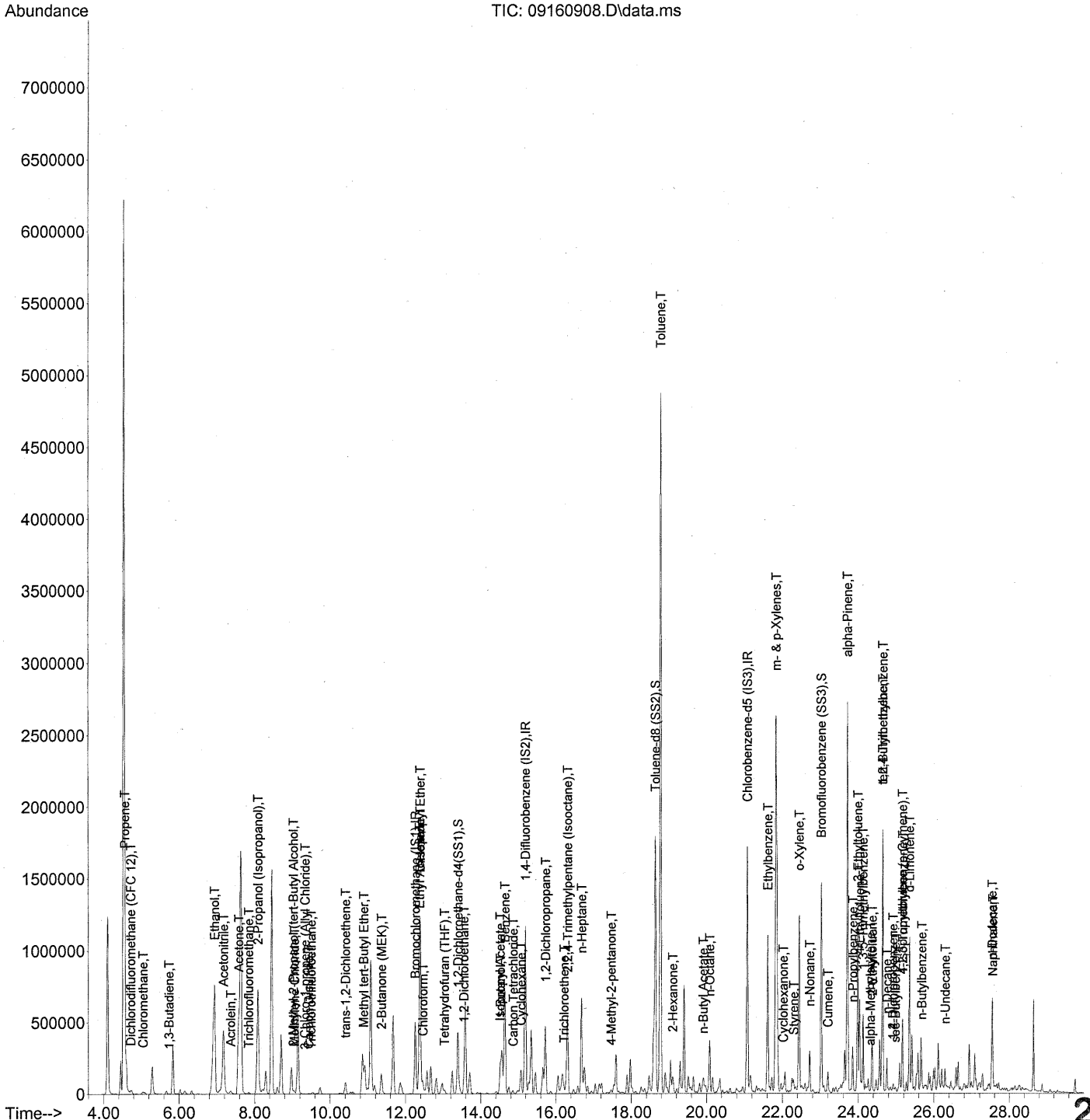
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **247**

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715 ✓
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 15:06:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715 ✓
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Quant Time: Sep 18 15:06:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

in 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	329502	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1585852	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	673149	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	439682	24.214	ng	-0.03
Spiked Amount	25.000			Recovery =	96.84%	✓
57) Toluene-d8 (SS2)	18.63	98	1651492	24.510	ng	0.00
Spiked Amount	25.000			Recovery =	98.04%	✓
73) Bromofluorobenzene (SS3)	23.02	174	652359	27.017	ng	0.00
Spiked Amount	25.000			Recovery =	108.08%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	104355	7.777 ng	# M	84
3) Dichlorodifluoromethan...	4.73	85	26139	1.019 ng		99
4) Chloromethane	5.04	50	9453	0.450 ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	327	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	1358	0.097 ng		96
8) Bromomethane	6.22	94	427	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.93	45	1997588m	205.362 ng		
11) Acetonitrile	7.17	41	888706	36.124 ng		100
12) Acrolein	7.36	56	27968	3.865 ng		98
13) Acetone	7.58	58	492963	50.305 ng	# M	1
14) Trichlorofluoromethane	7.84	101	15085	0.635 ng		96
15) 2-Propanol (Isopropanol)	8.08	45	1535214m	45.487 ng		
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.02	59	10013	0.287 ng	#	1
19) Methylene Chloride	9.05	84	8399	0.562 ng		82
20) 3-Chloro-1-propene (Al...	9.33	41	1375	0.078 ng	#	40
21) Trichlorotrifluoroethane	9.49	151	2767	0.236 ng		88
22) Carbon Disulfide	9.43	76	11843	0.228 ng		98
23) trans-1,2-Dichloroethene	10.40	61	1216	0.065 ng	#	17
24) 1,1-Dichloroethane	0.00	63	0	N.D. d		
25) Methyl tert-Butyl Ether	10.88	73	10931	0.290 ng		76
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.36	72	79282	8.422 ng	#	71
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.37	87	13133	1.204 ng	#	1
30) Ethyl Acetate	12.36	61	34962	7.316 ng	#	62
31) n-Hexane	12.37	57	860924	45.481 ng		9249

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 15:06:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	24255	1.044 ng	#	71
34) Tetrahydrofuran (THF)	13.03	72	6692	0.768 ng	#	80
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	34554	2.157 ng		100
38) 1,1,1-Trichloroethane	13.94	97	105	N.D.		
39) Isopropyl Acetate	14.51	61	2519	0.287 ng	#	1
40) 1-Butanol	14.51	56	178402	12.469 ng		95
41) Benzene	14.63	78	1078139	19.062 ng		99
42) Carbon Tetrachloride	14.86	117	3885	0.228 ng		96
43) Cyclohexane	15.07	84	108552	5.260 ng		87
44) tert-Amyl Methyl Ether	15.56	73	647	N.D.		
45) 1,2-Dichloropropane	15.72	63	968	0.073 ng	#	48
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.22	130	6908	0.406 ng		99
48) 1,4-Dioxane	16.19	88	285	N.D.		
49) 2,2,4-Trimethylpentane...	16.31	57	686178	12.043 ng		94
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	16.68	71	221422	15.341 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	8930	0.708 ng		91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.77	91	4861927	77.294 ng		99
59) 2-Hexanone	19.09	43	59734	4.969 ng	#	53
60) Dibromochloromethane	19.31	129	598	N.D.		9/21/09
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	61988	1.785 ng	#	70
63) n-Octane	20.08	57	77177	6.536 ng		89
64) Tetrachloroethene	20.26	166	450	N.D.		
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.61	91	1058946	15.332 ng		97
67) m- & p-Xylenes	21.83	91	2814344	52.132 ng		95
68) Bromoform	21.92	173	115	N.D.		
69) Styrene	22.29	104	43701	0.985 ng		97
70) o-Xylene	22.44	91	954485	17.304 ng		95
71) n-Nonane	22.71	43	118438	4.424 ng		89
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.20	105	110348	1.461 ng		98
75) alpha-Pinene	23.70	93	1413197	39.830 ng		95
76) n-Propylbenzene	23.85	91	300274	3.402 ng		96
77) 3-Ethyltoluene	23.98	105	882610	12.370 ng		98
78) 4-Ethyltoluene	24.03	105	436747	6.199 ng		98
79) 1,3,5-Trimethylbenzene	24.12	105	313590	5.347 ng		95

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 15:06:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

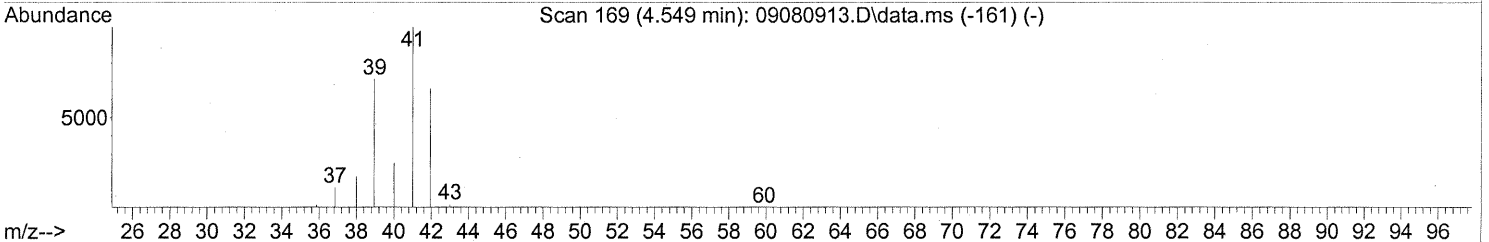
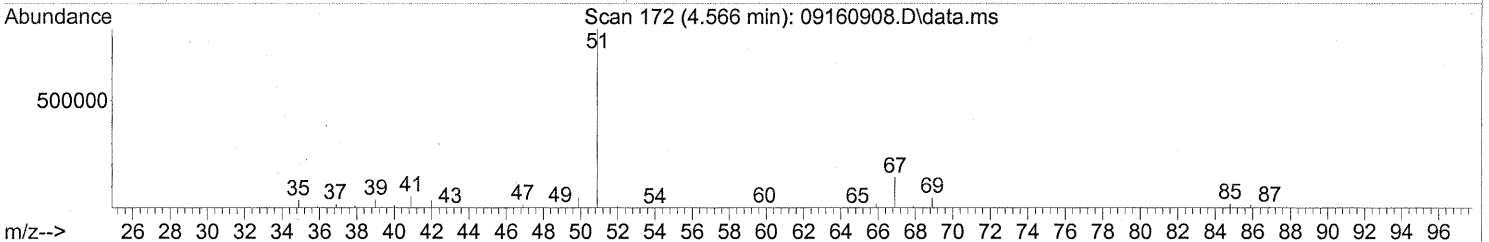
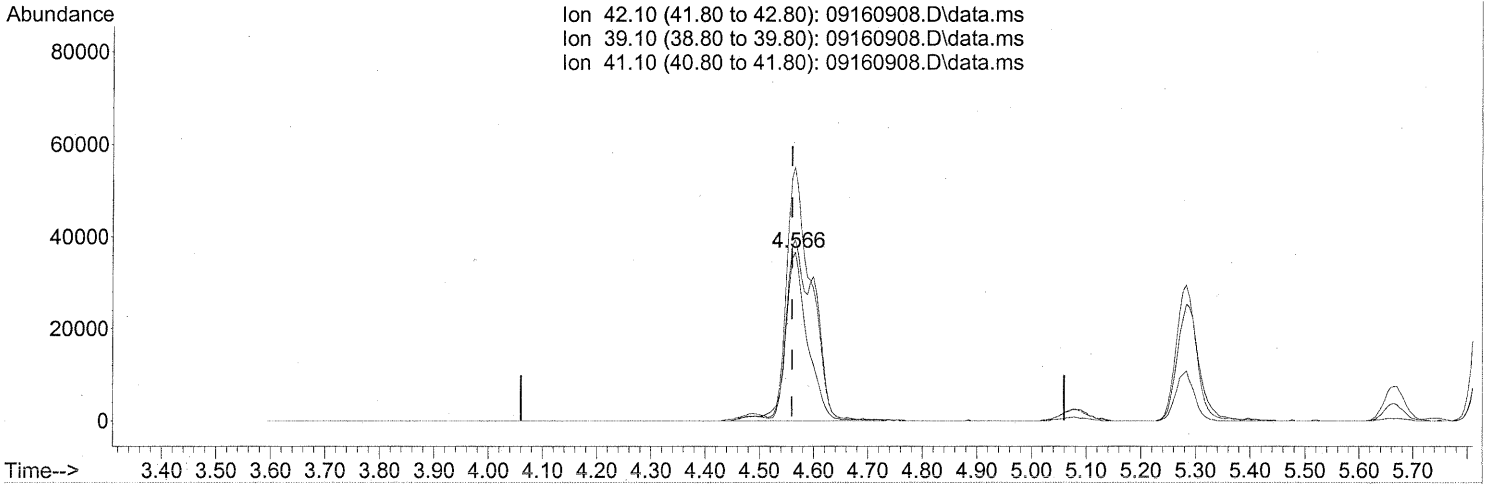
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	1823	0.054	ng #	53
81) 2-Ethyltoluene	24.36	105	273989	3.661	ng	98
82) 1,2,4-Trimethylbenzene	24.64	105	1188192	18.995	ng	92
83) n-Decane	24.75	57	89154	2.723	ng	89
84) Benzyl Chloride	24.80	91	494	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.	d	
86) 1,4-Dichlorobenzene	24.91	146	12023	0.317	ng	99
87) sec-Butylbenzene	24.97	105	16013	0.196	ng	98
88) 4-Isopropyltoluene (p-...	25.16	119	124313	1.566	ng	92
89) 1,2,3-Trimethylbenzene	25.17	105	242879	3.966	ng	95
90) 1,2-Dichlorobenzene	24.91	146	12023	0.343	ng #	98
91) d-Limonene	25.34	68	284165	12.648	ng	89
92) 1,2-Dibromo-3-Chloropr...	26.29	157	168	N.D.		
93) n-Undecane	26.29	57	50224	1.330	ng	80
94) 1,2,4-Trichlorobenzene	27.40	180	56	N.D.		
95) Naphthalene	27.53	128	300416	3.307	ng	96
96) n-Dodecane	27.52	57	156733	4.212	ng	92
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.02	55	29613	1.272	ng #	68
99) tert-Butylbenzene	24.64	119	151061	2.453	ng #	55
100) n-Butylbenzene	25.67	91	79788	1.270	ng #	29

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.566min (+0.006) 7.78ng

response 104355

Ion Exp% Act%

42.10 100 100

39.10 109.30 136.60#

41.10 152.10 162.86

0.00 0.00 0.00

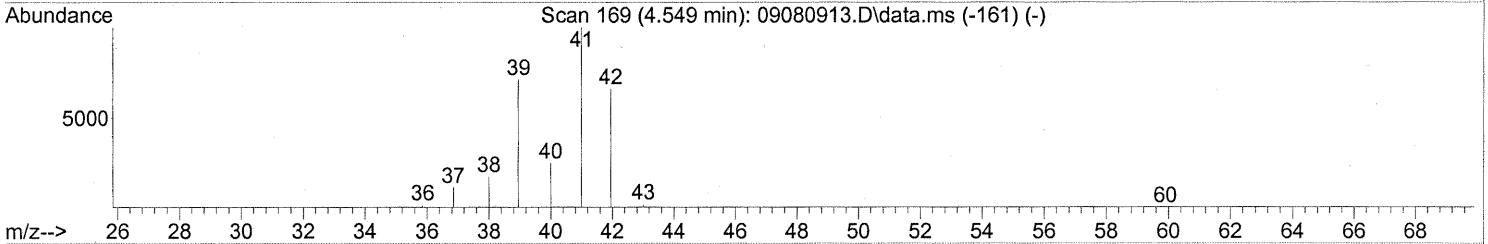
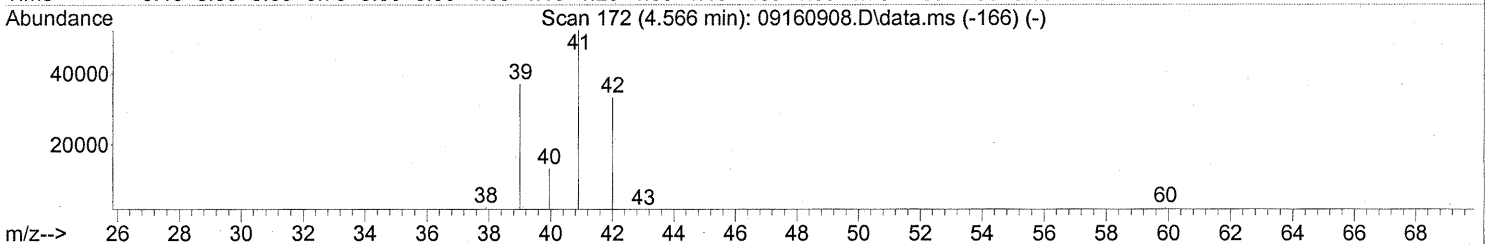
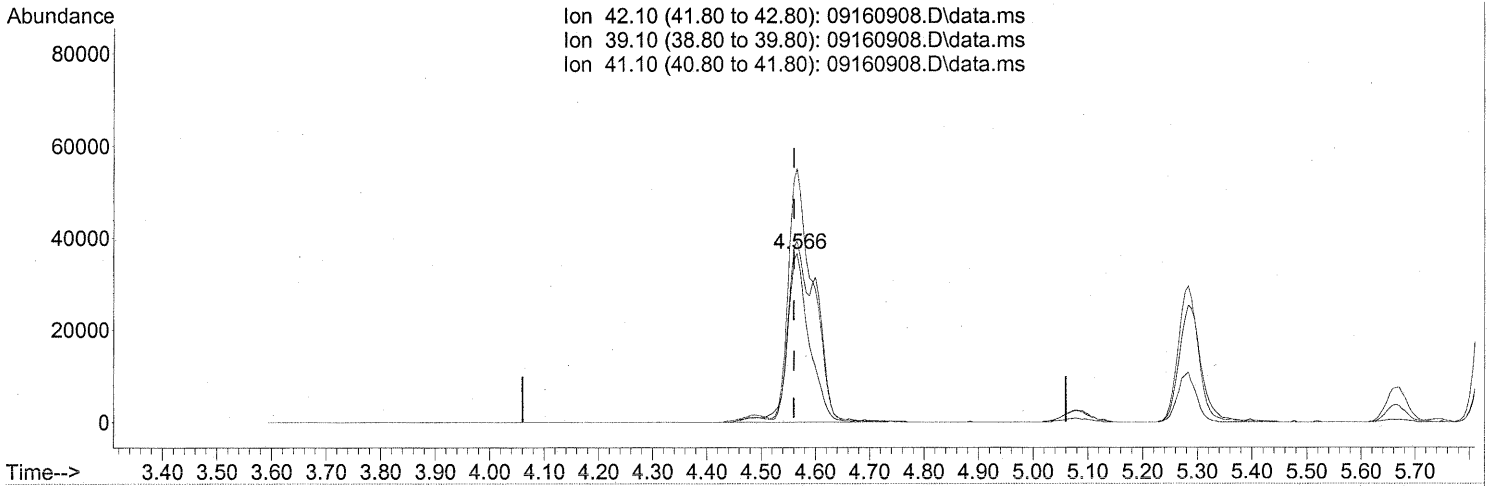
BEFORE SUBTRACTION

M

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160908.D\data.ms

(2) Propene (T)

4.566min (+0.006) 7.78ng

M

AFTER SUBTRACTION

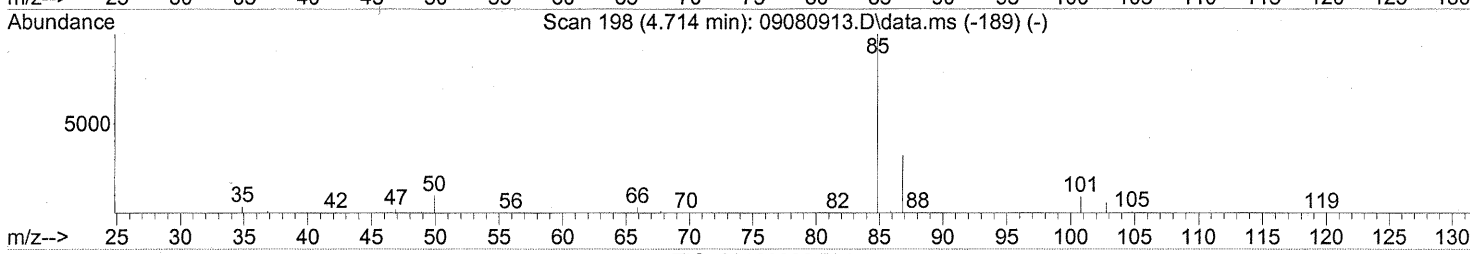
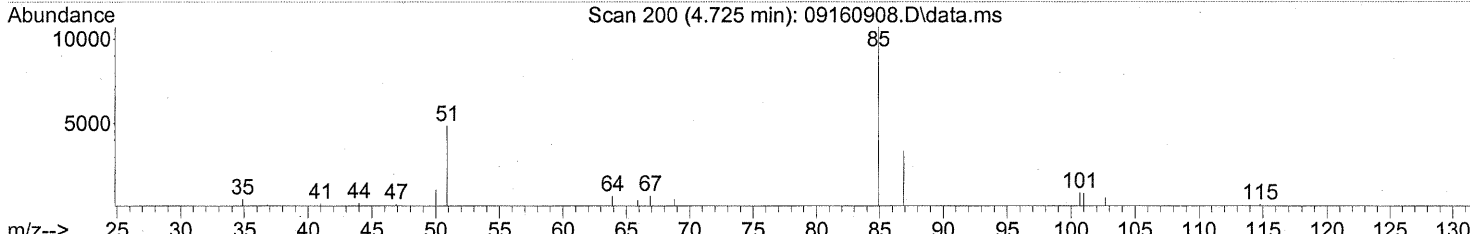
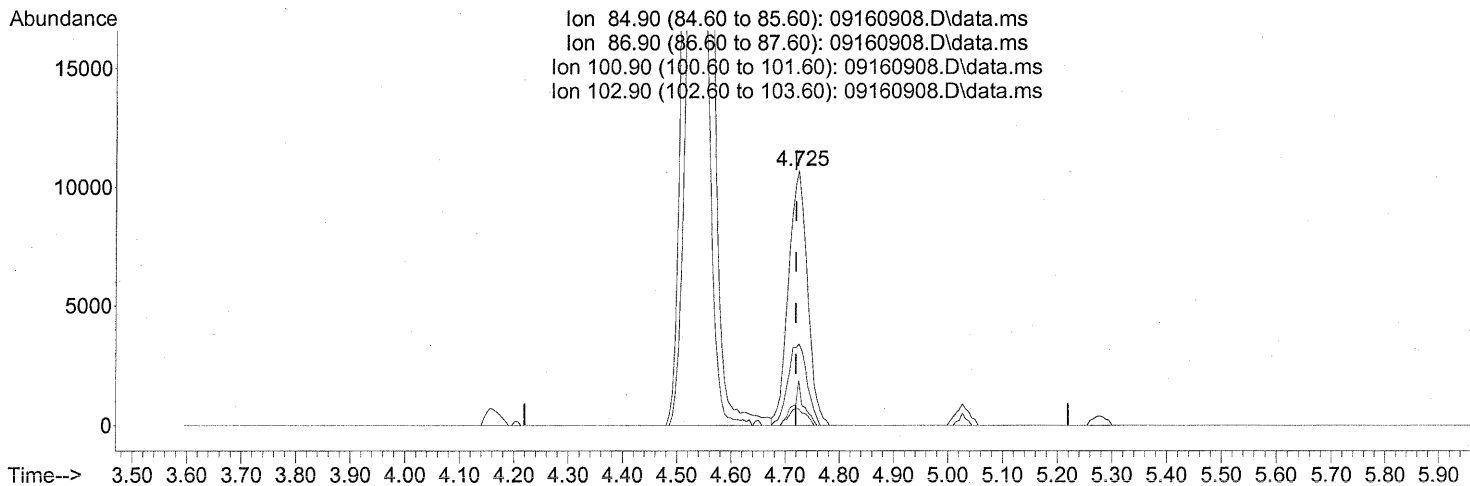
response 104355

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	136.60#
41.10	152.10	162.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.725min (+0.006) 1.02ng

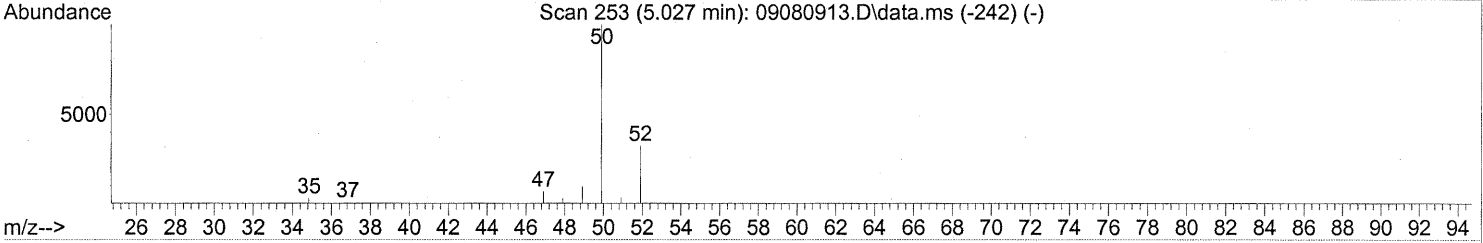
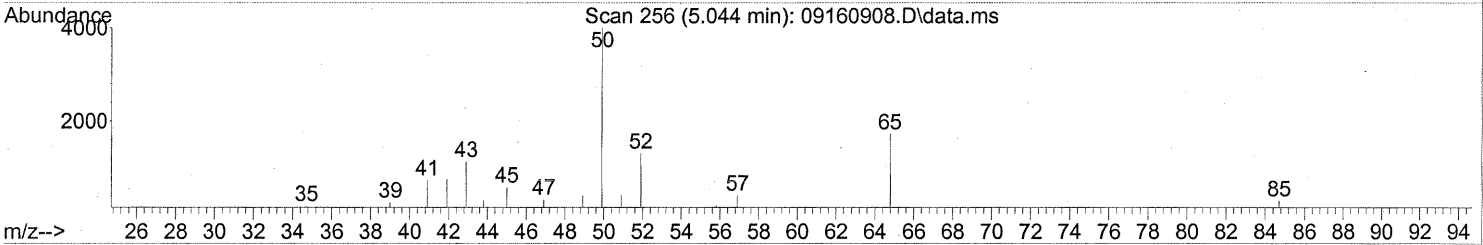
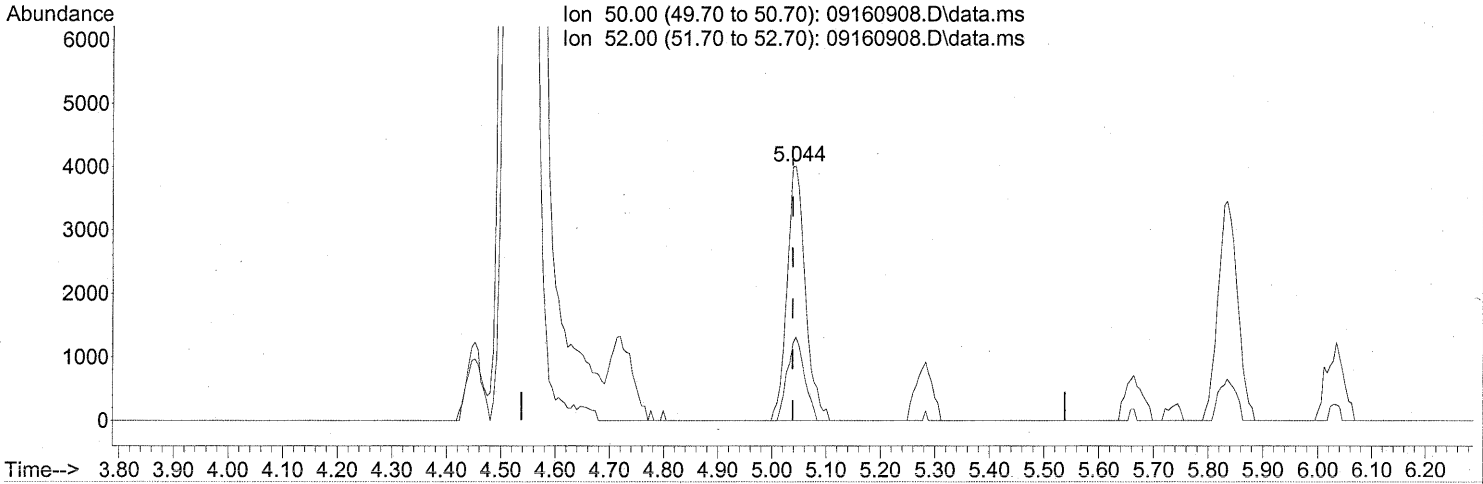
response 26139

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.15
100.90	8.60	9.82
102.90	5.90	5.87

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160908.D\data.ms

(4) Chloromethane (T)

5.044min (+0.006) 0.45ng

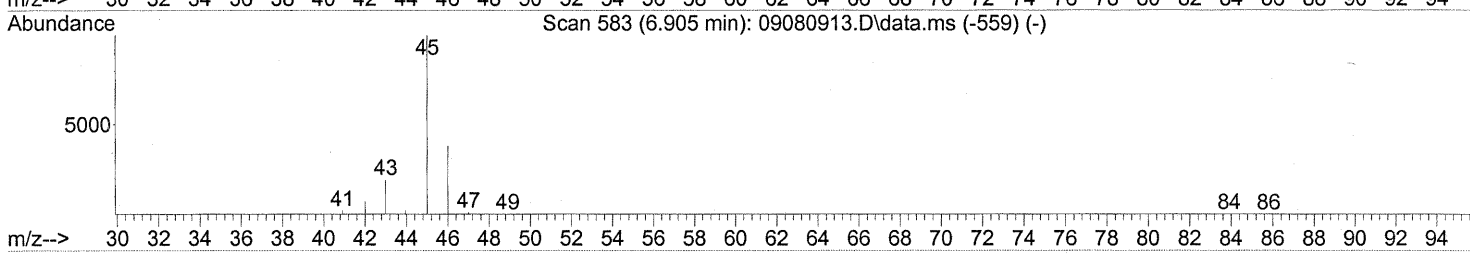
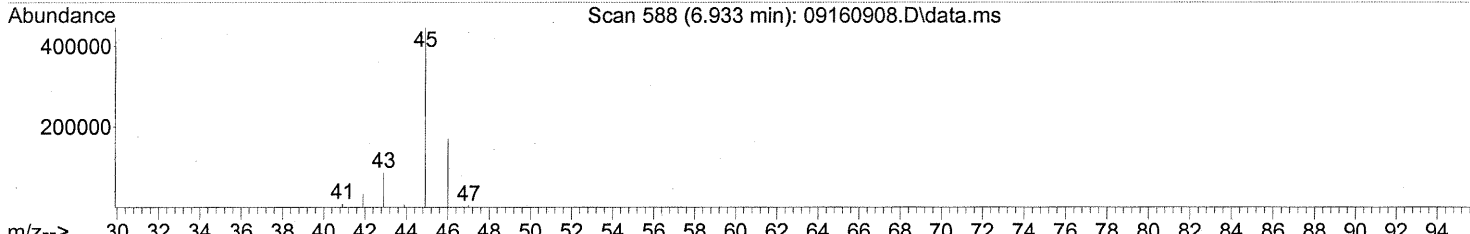
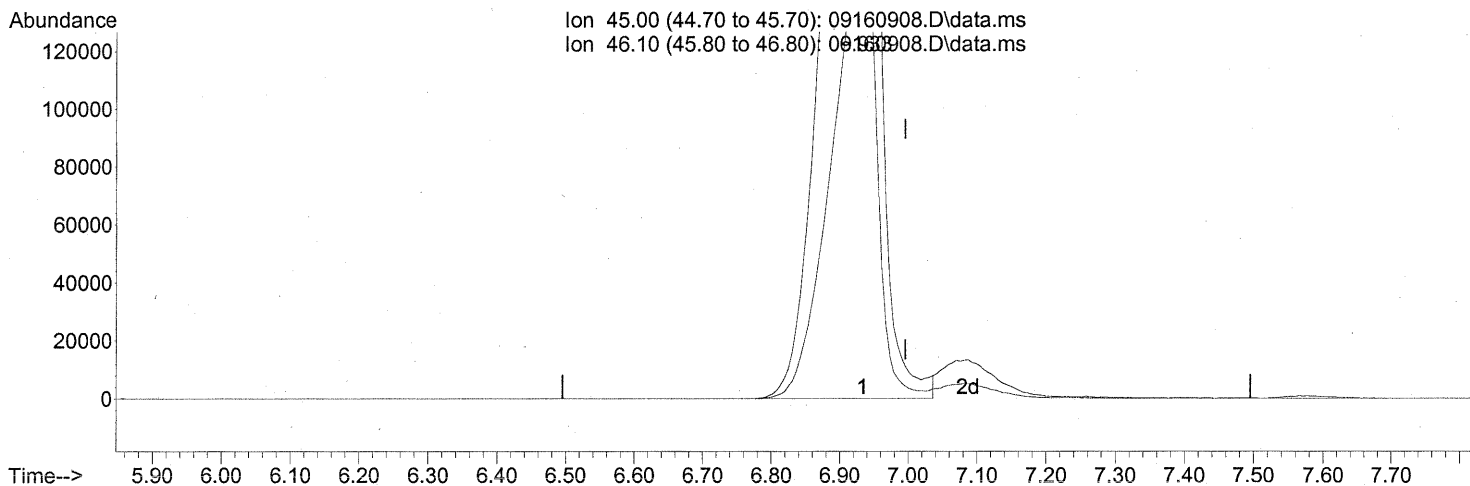
response 9453

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 14:53:39 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.933min (-0.063) 197.64ng

response 1922455

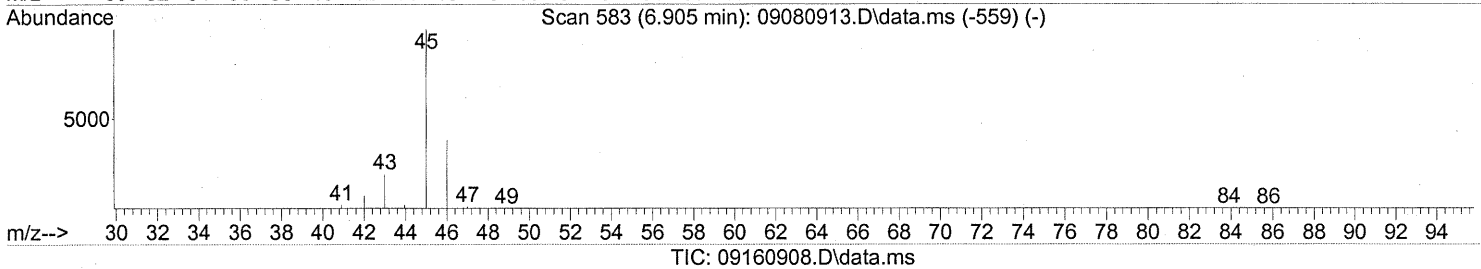
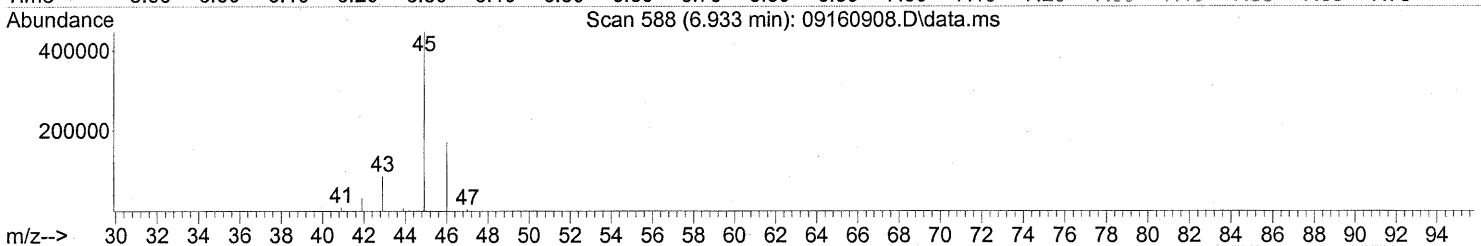
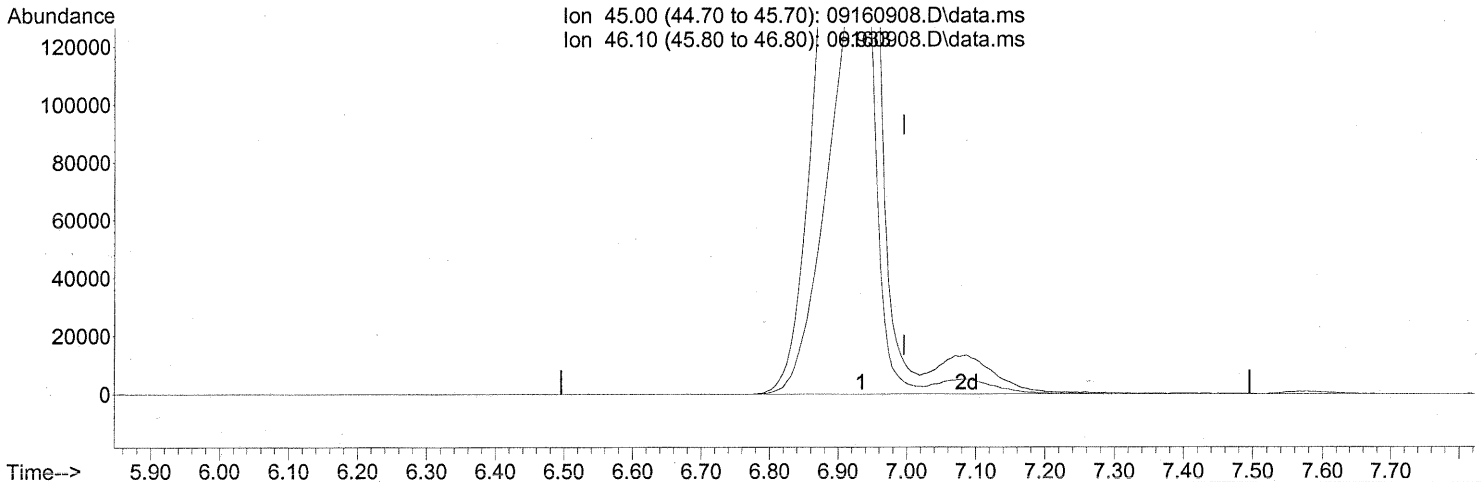
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.98
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 14:53:39 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.933min (-0.063) 205.36ng m
 response 1997588

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.55
0.00	0.00	0.00
0.00	0.00	0.00

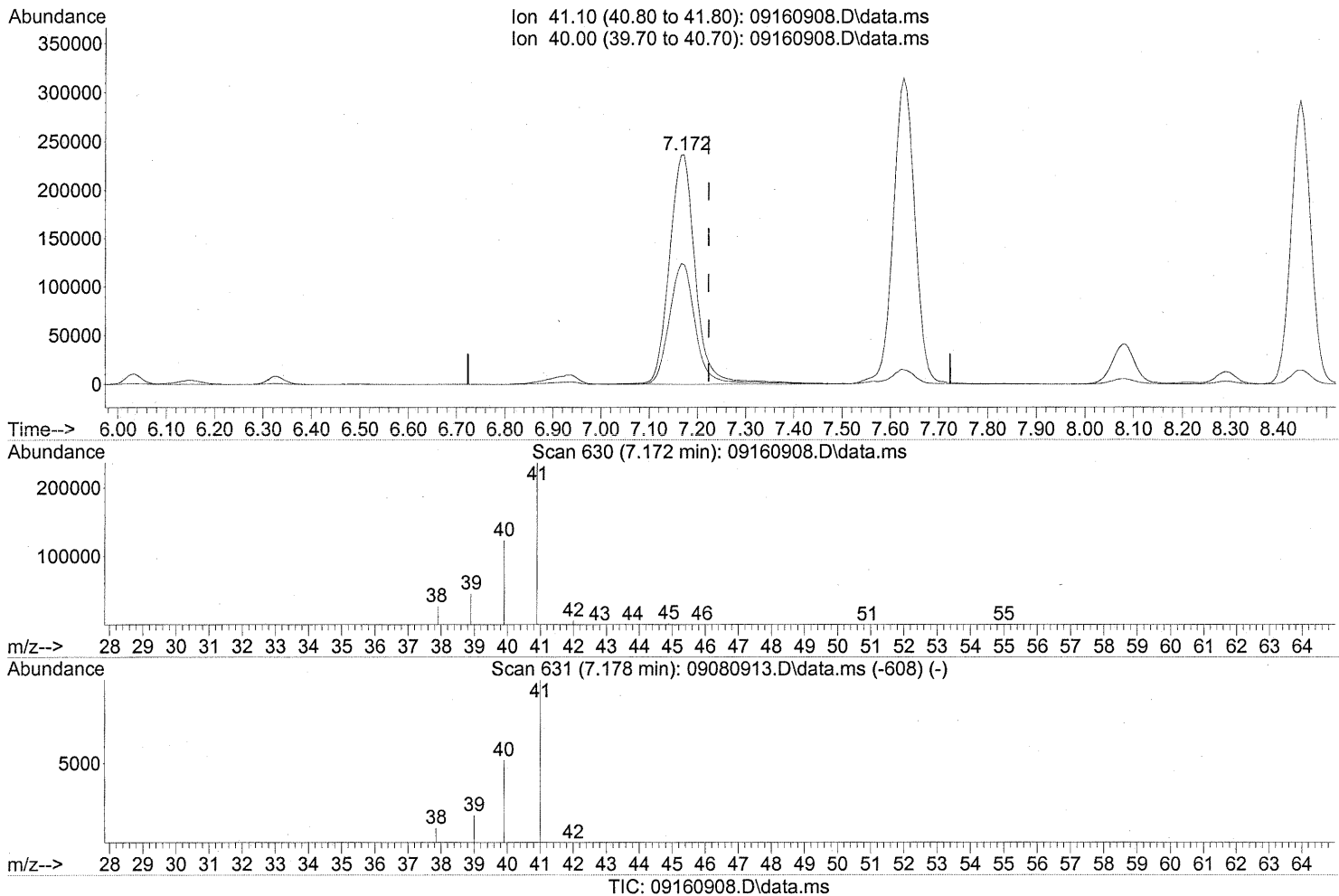
PT → IC
in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.172min (-0.051) 36.12ng

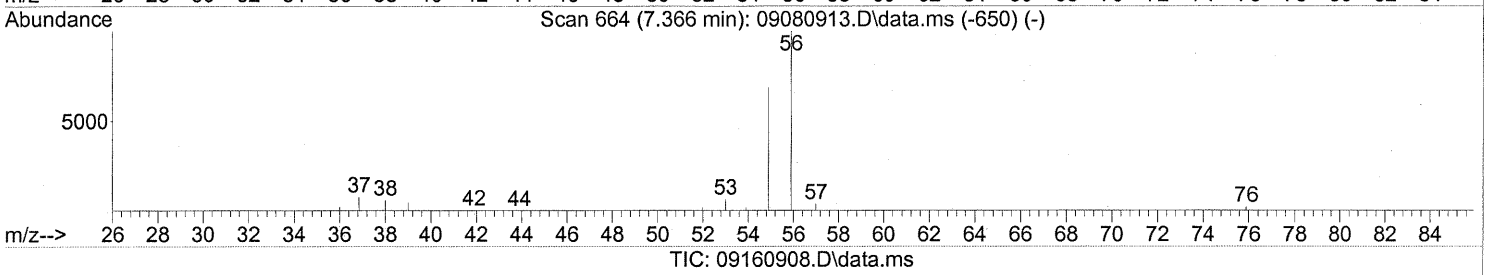
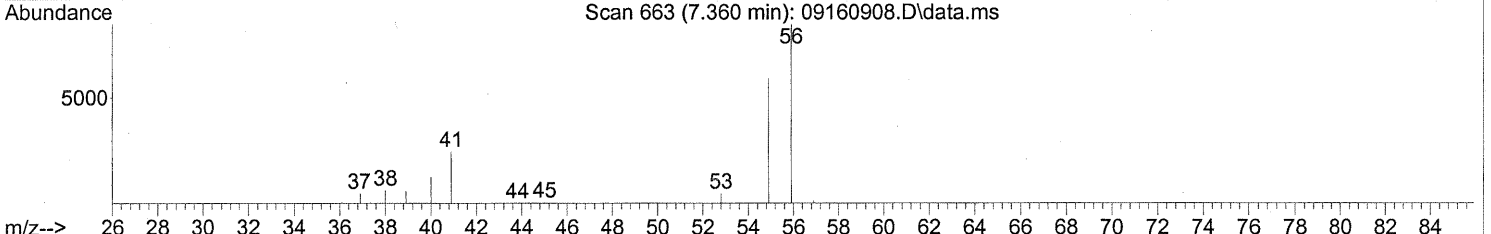
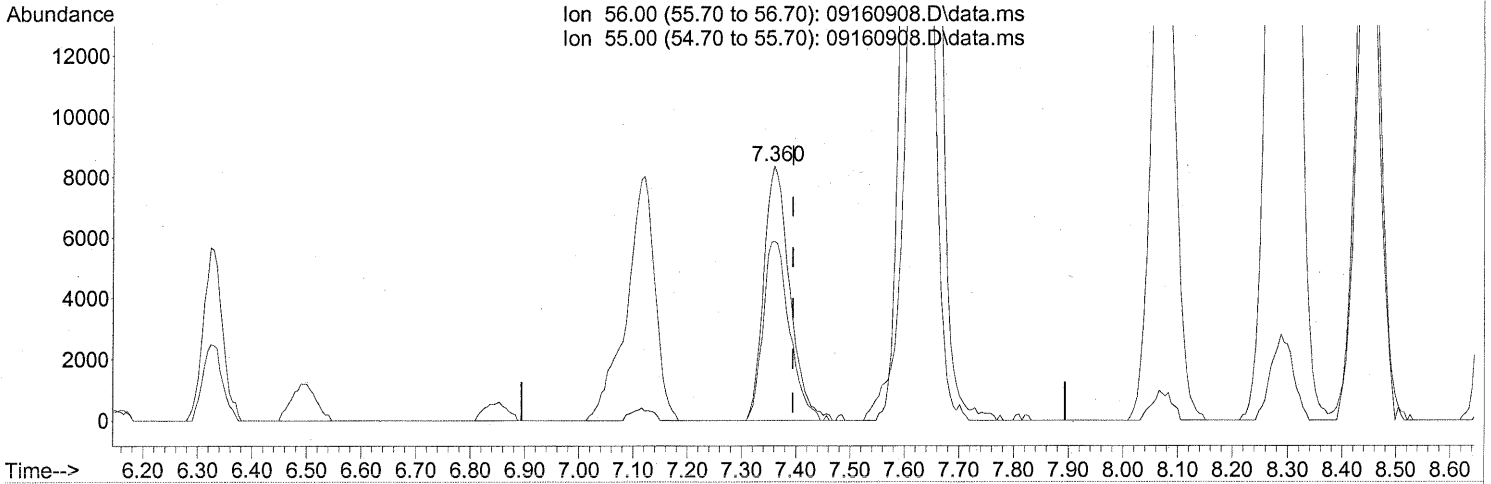
response 888706

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.360min (-0.034) 3.86ng

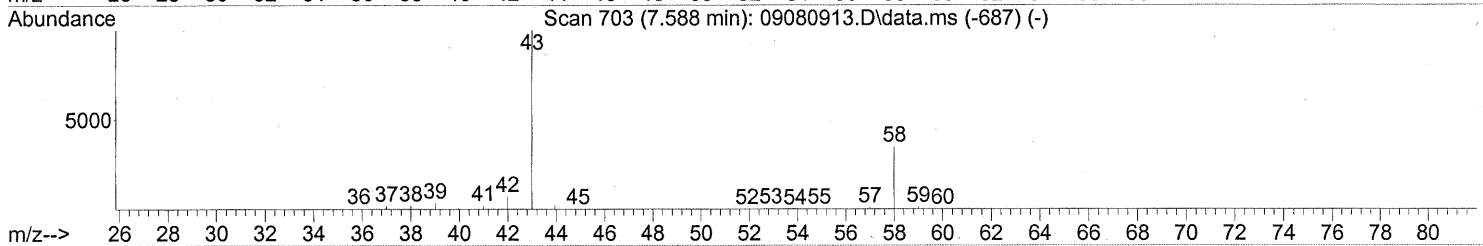
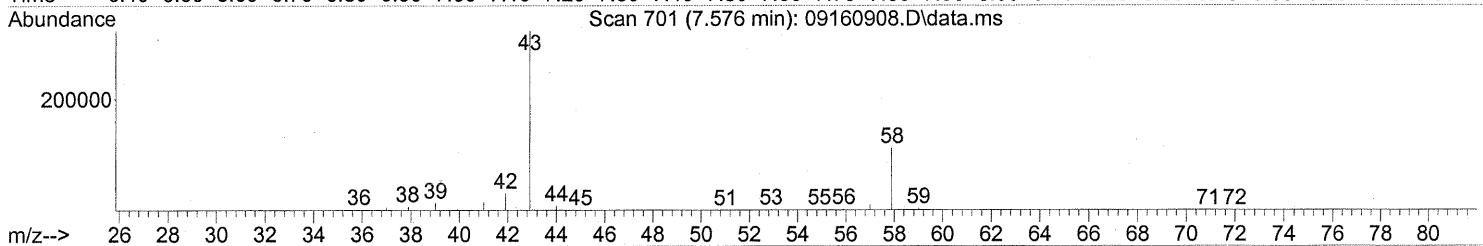
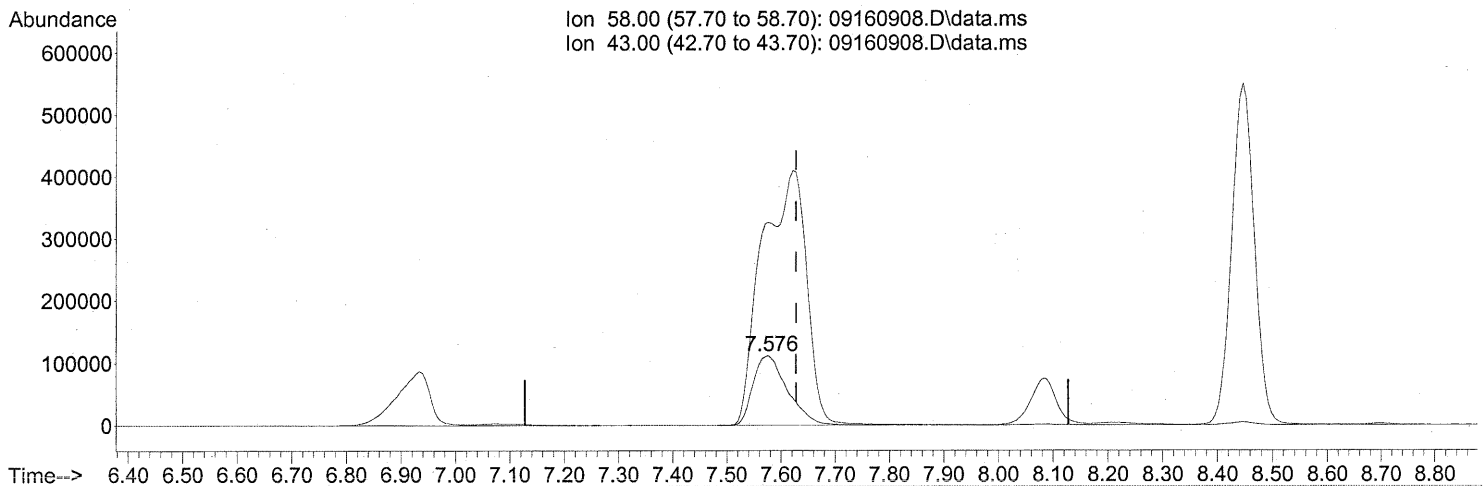
response 27968

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	71.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160908.D\data.ms

(13) Acetone (T)

7.576min (-0.051) 50.30ng *M*

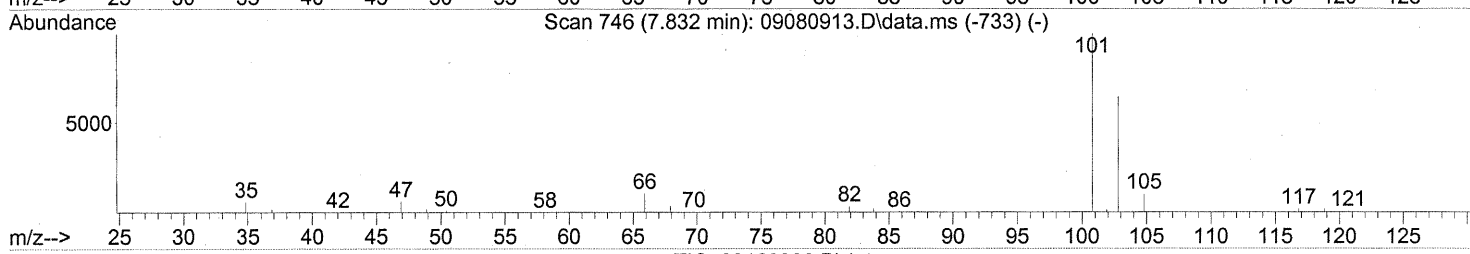
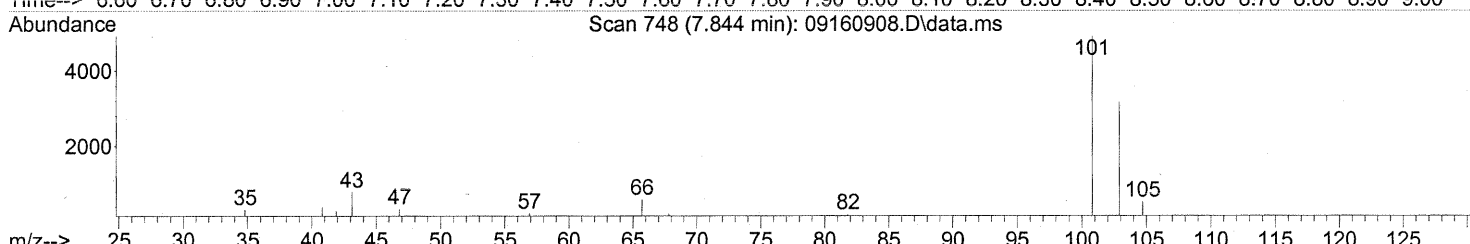
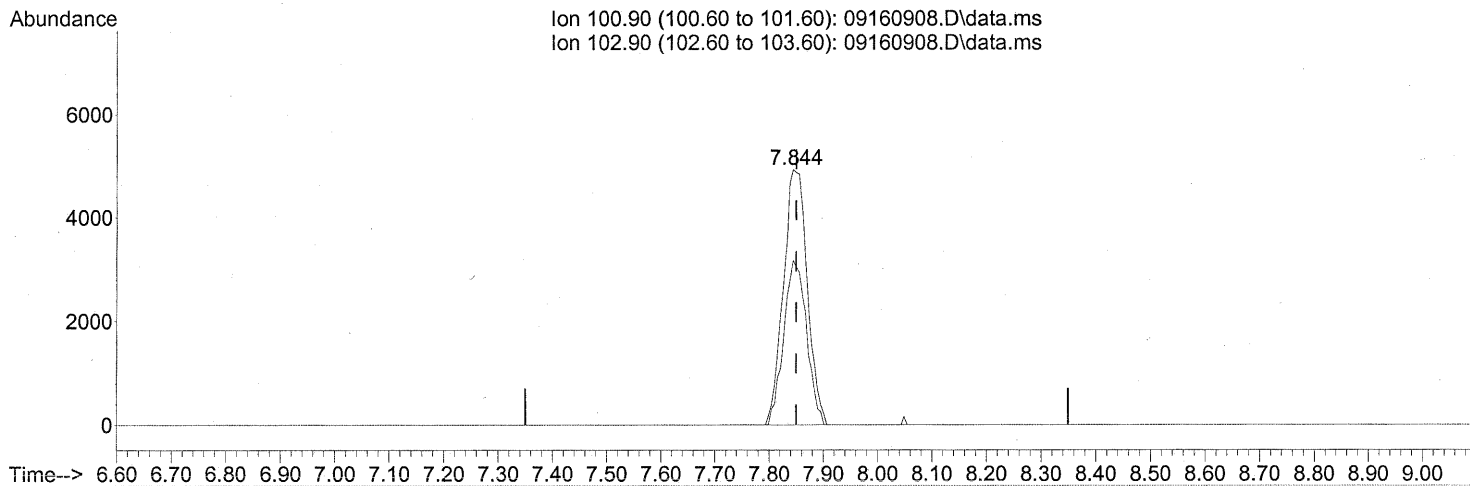
response 492963

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

7.844min (-0.006) 0.63ng

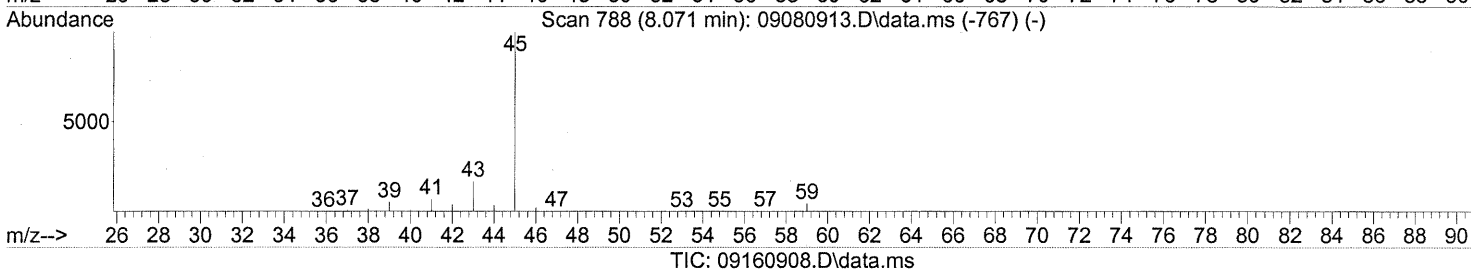
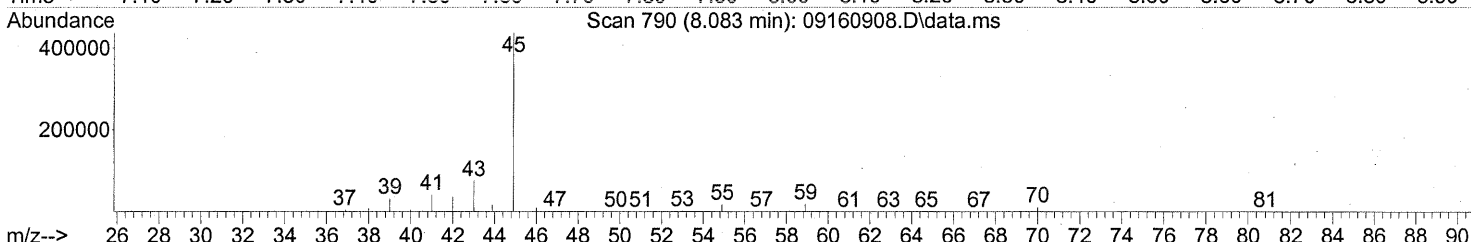
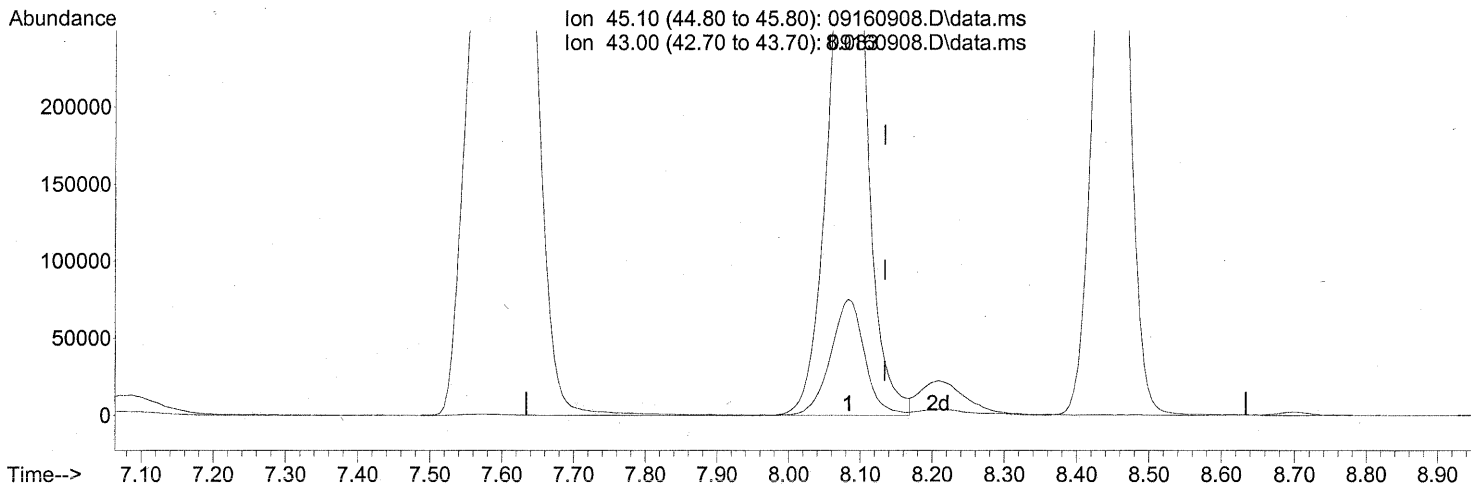
response 15085

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	61.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 14:53:39 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 42.49ng

response 1434072

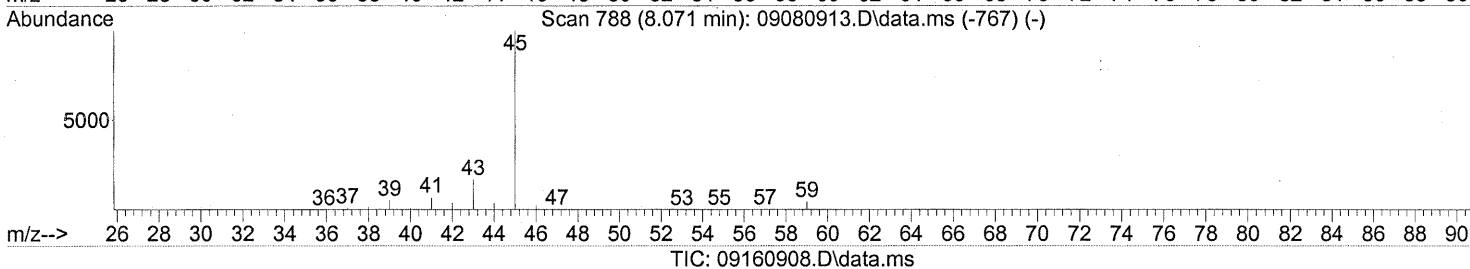
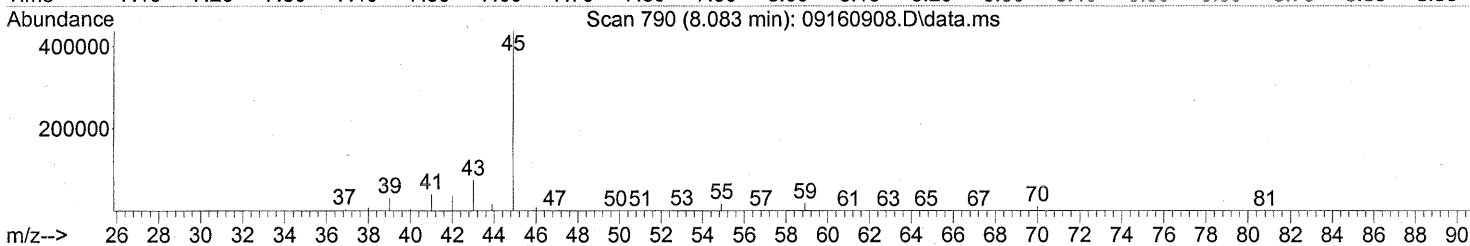
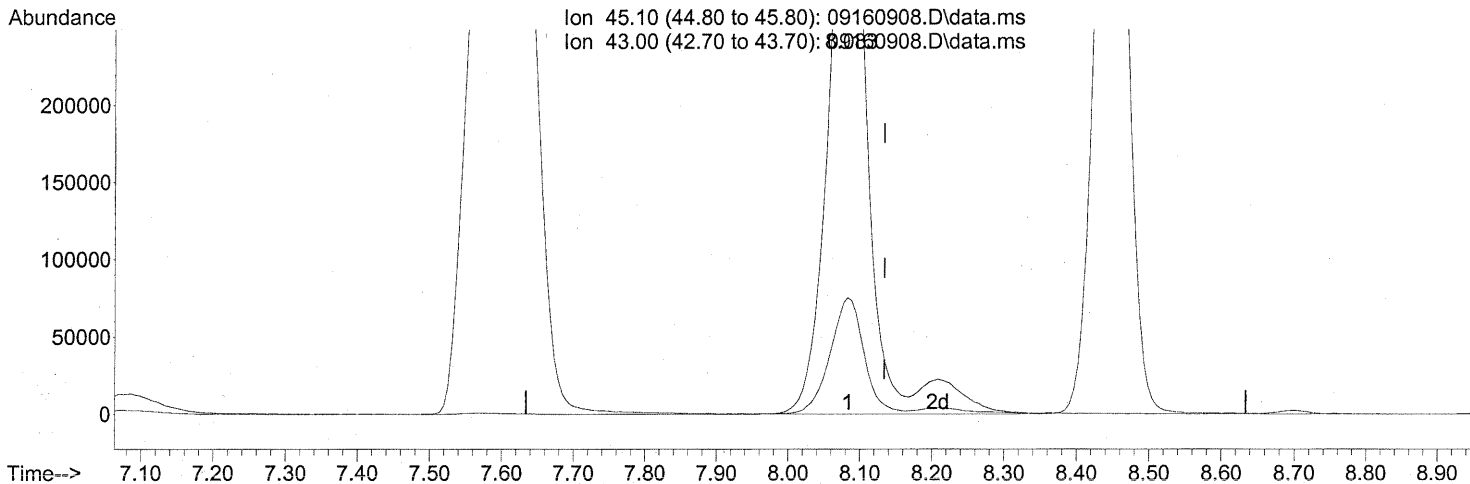
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.18
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 18 14:53:39 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 45.49ng m

response 1535214

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.05
0.00	0.00	0.00
0.00	0.00	0.00

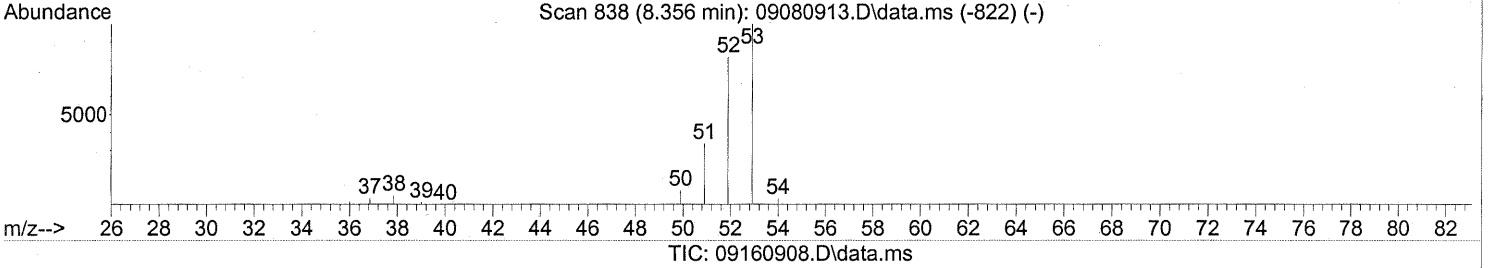
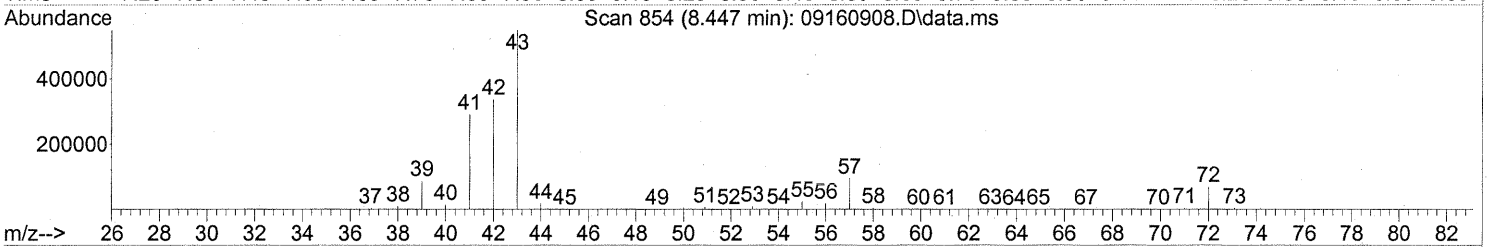
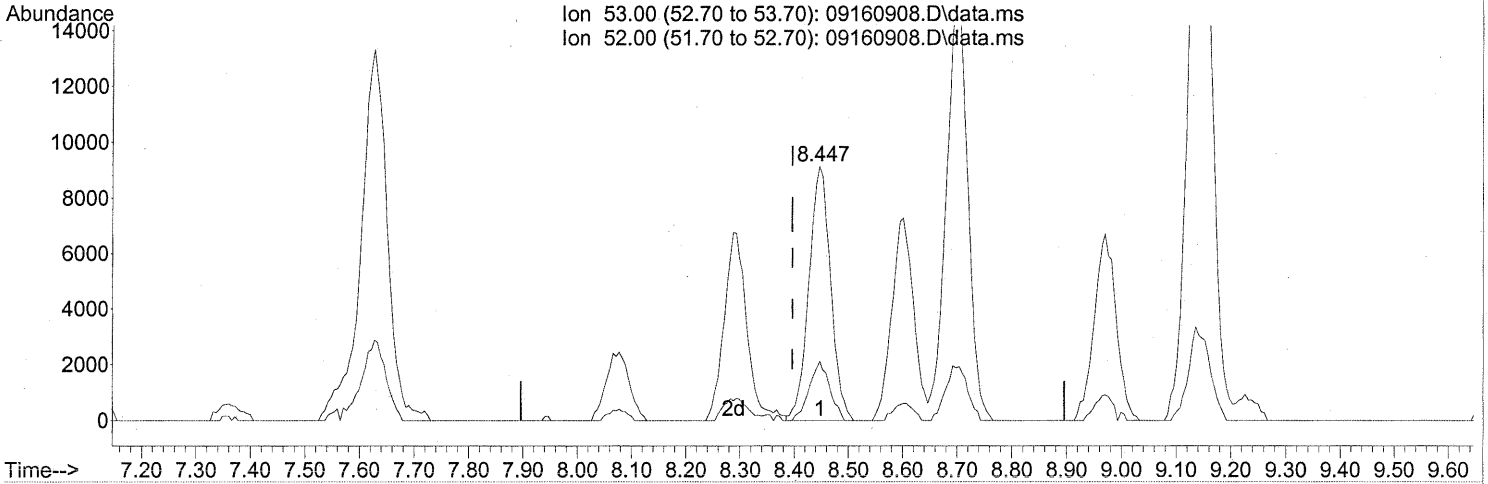
PT → IC
M 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.447min (+0.051) 1.34ng
 response 25490

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	21.83#
0.00	0.00	0.00
0.00	0.00	0.00

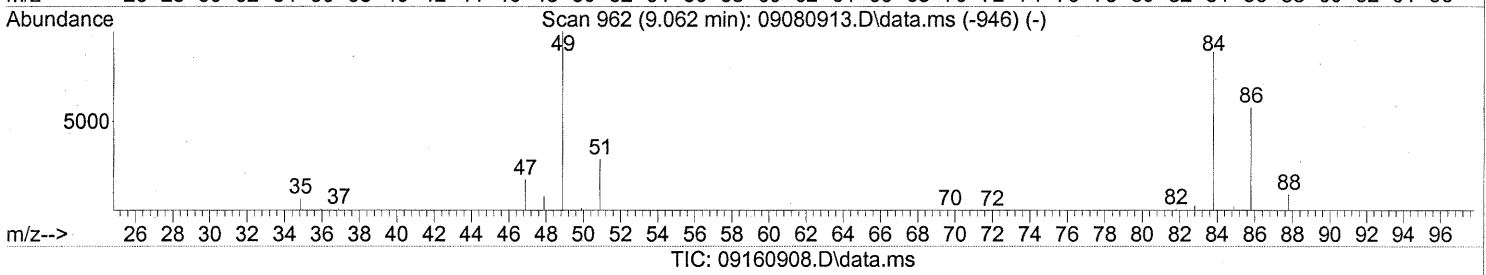
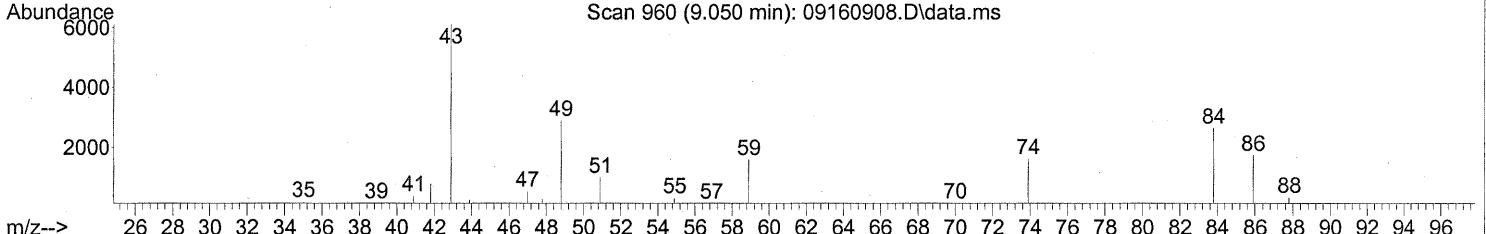
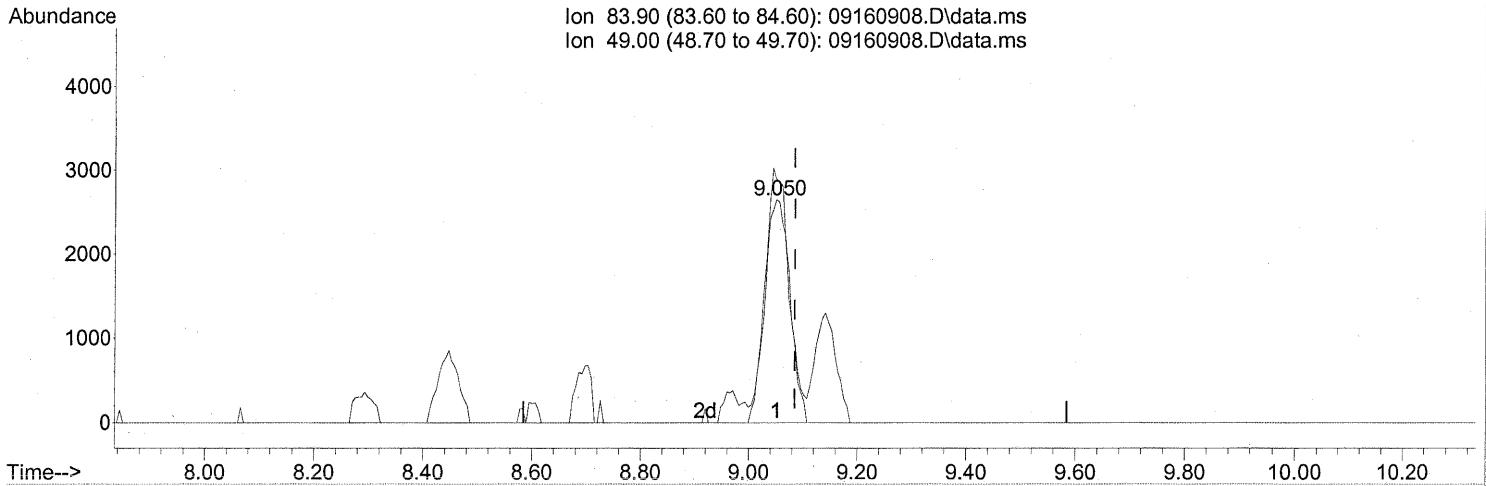
FP via 9/18/09

PA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.050min (-0.034) 0.56ng

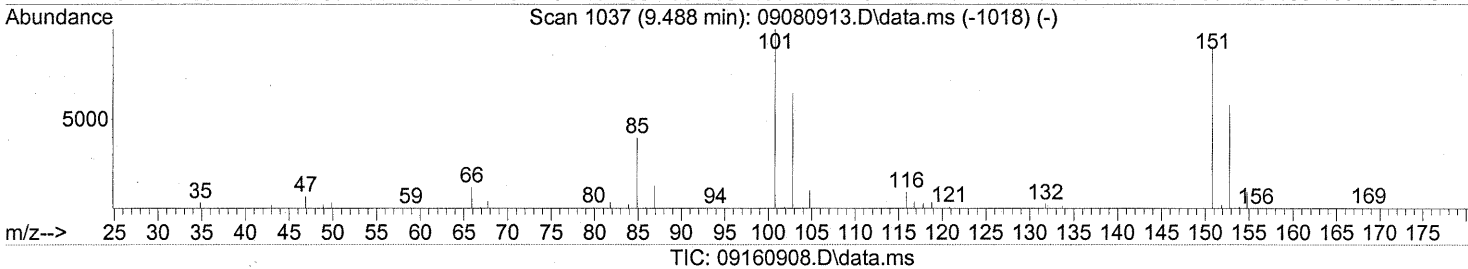
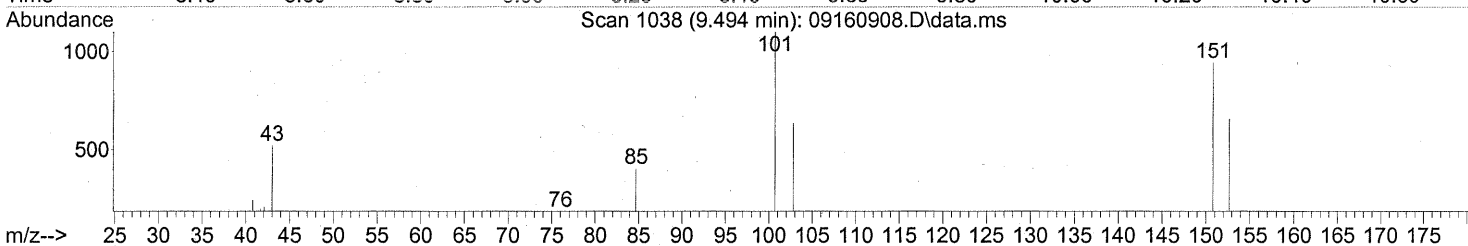
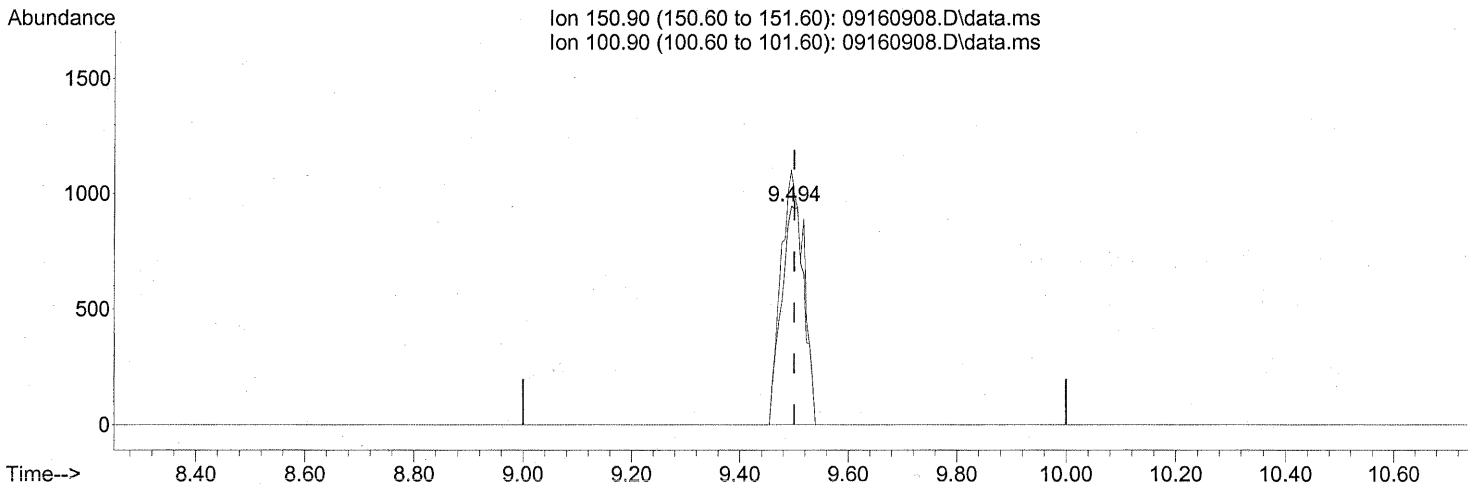
response 8399

Ion	Exp%	Act%
83.90	100	100
49.00	133.30	112.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 07:23:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.494min (-0.006) 0.24ng

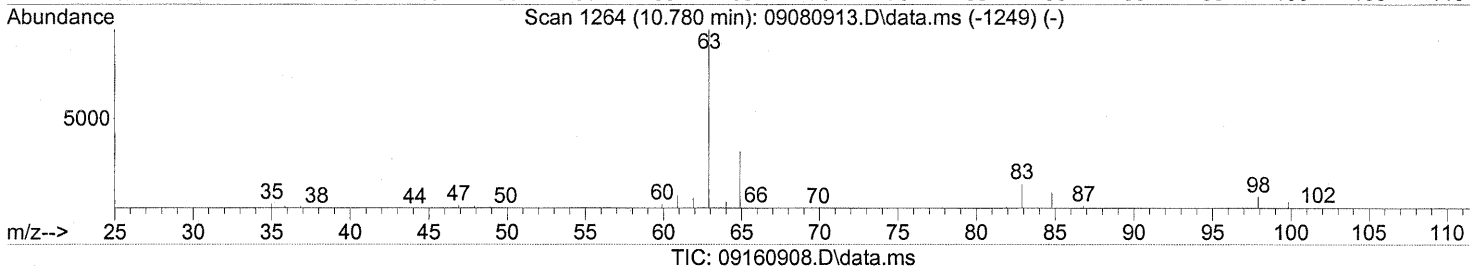
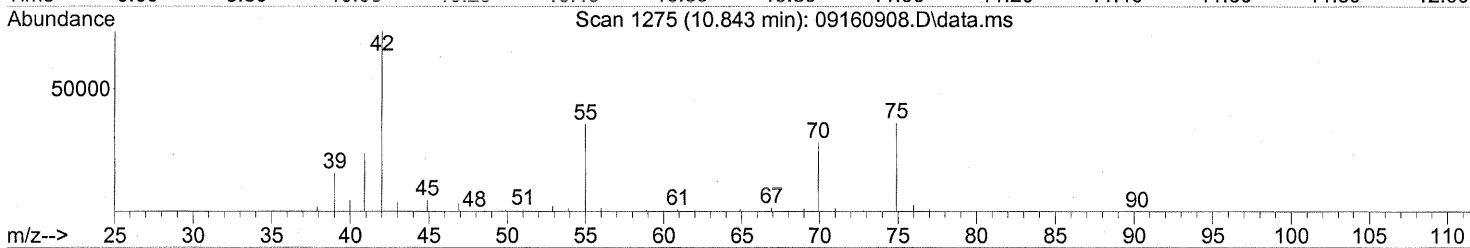
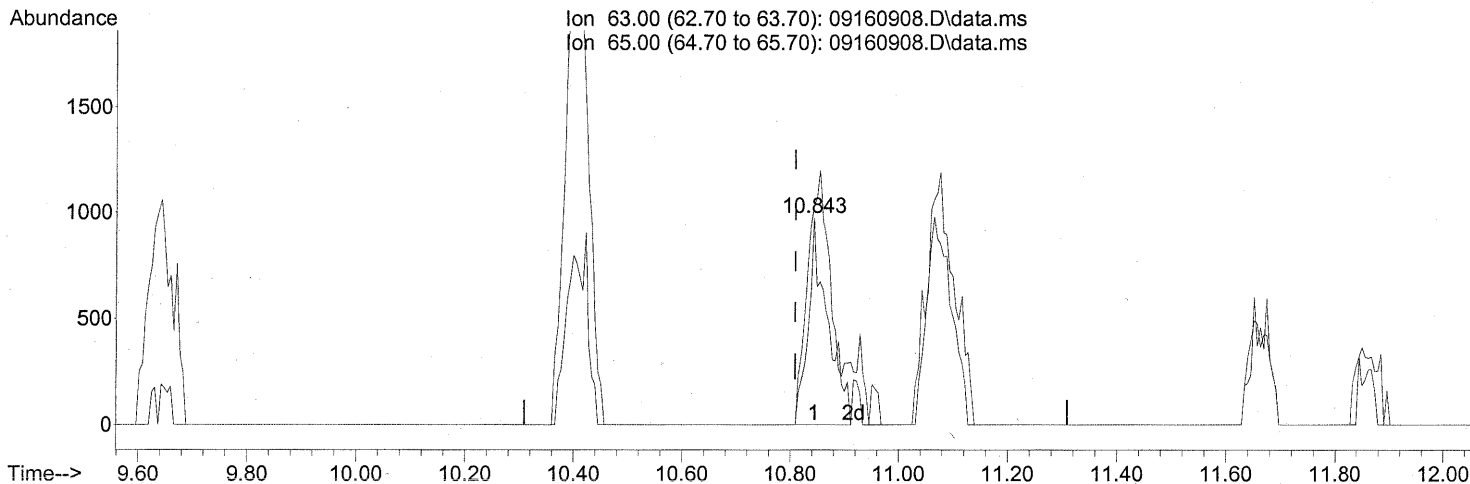
response 2767

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	115.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:25:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

10.843min (+0.034) 0.10ng

response 2445

Ion	Exp%	Act%
63.00	100	100
65.00	31.80	141.39#
0.00	0.00	0.00
0.00	0.00	0.00

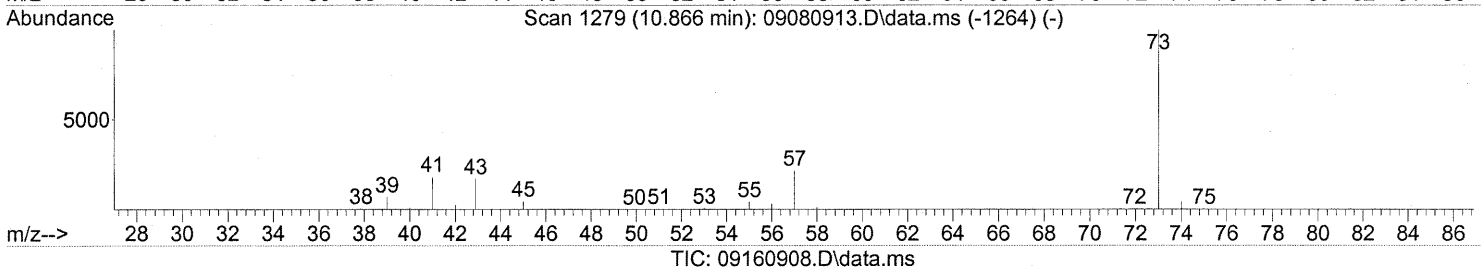
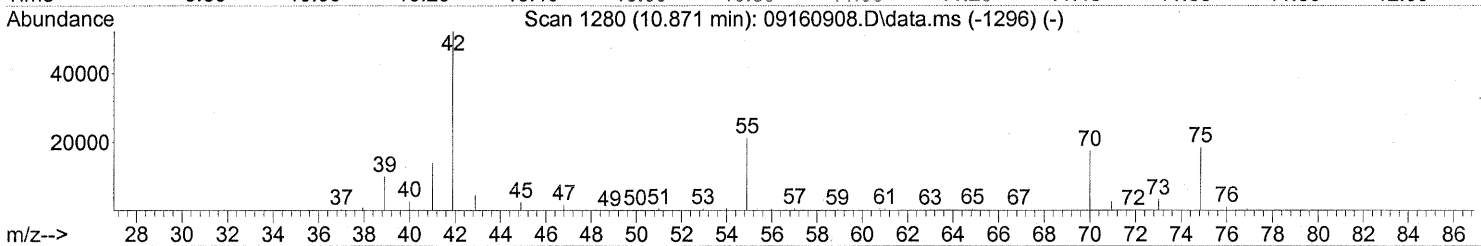
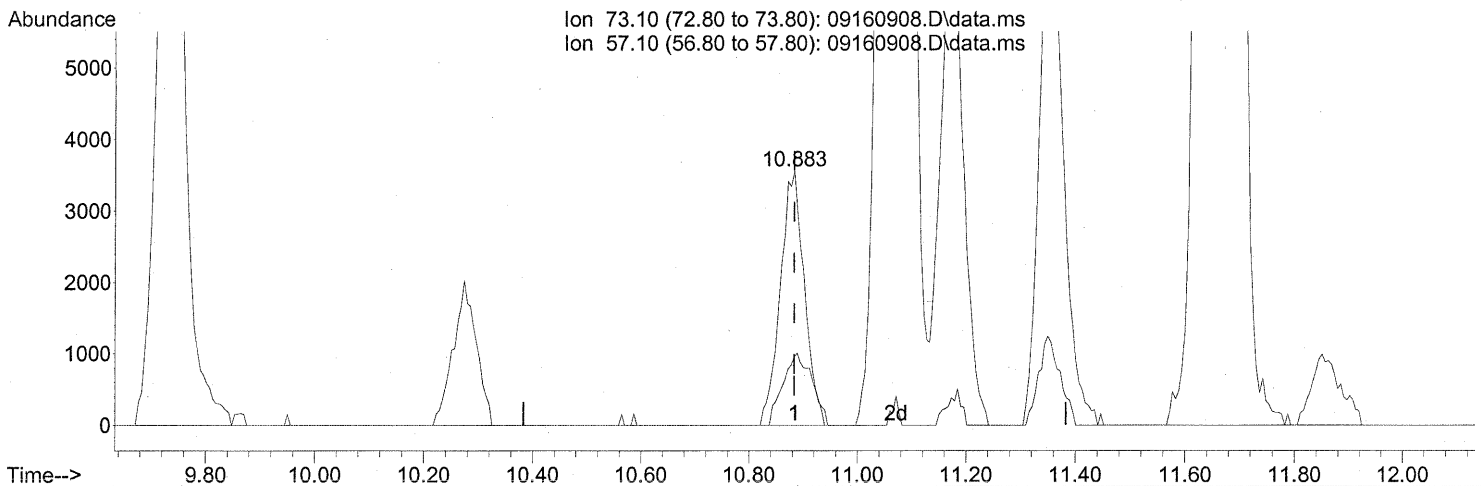
FP via 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:25:44 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

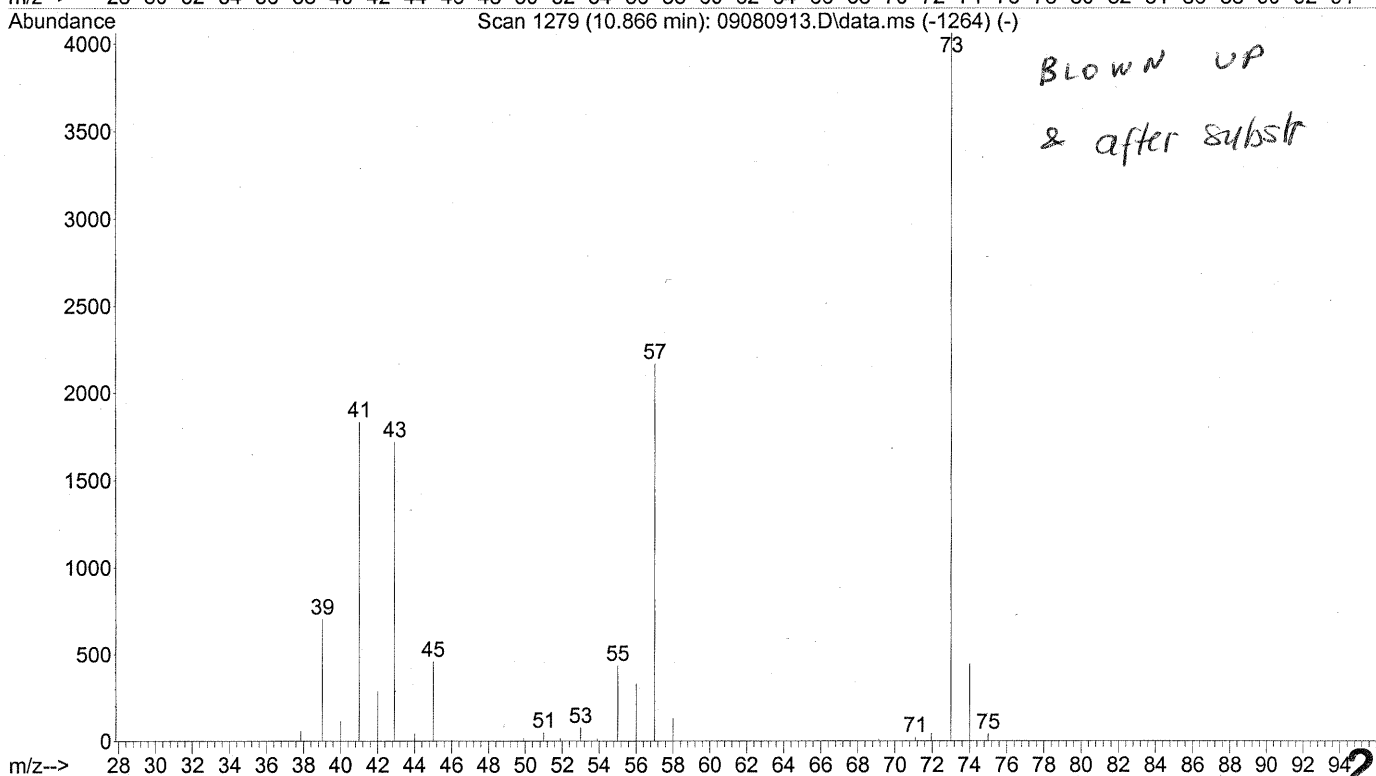
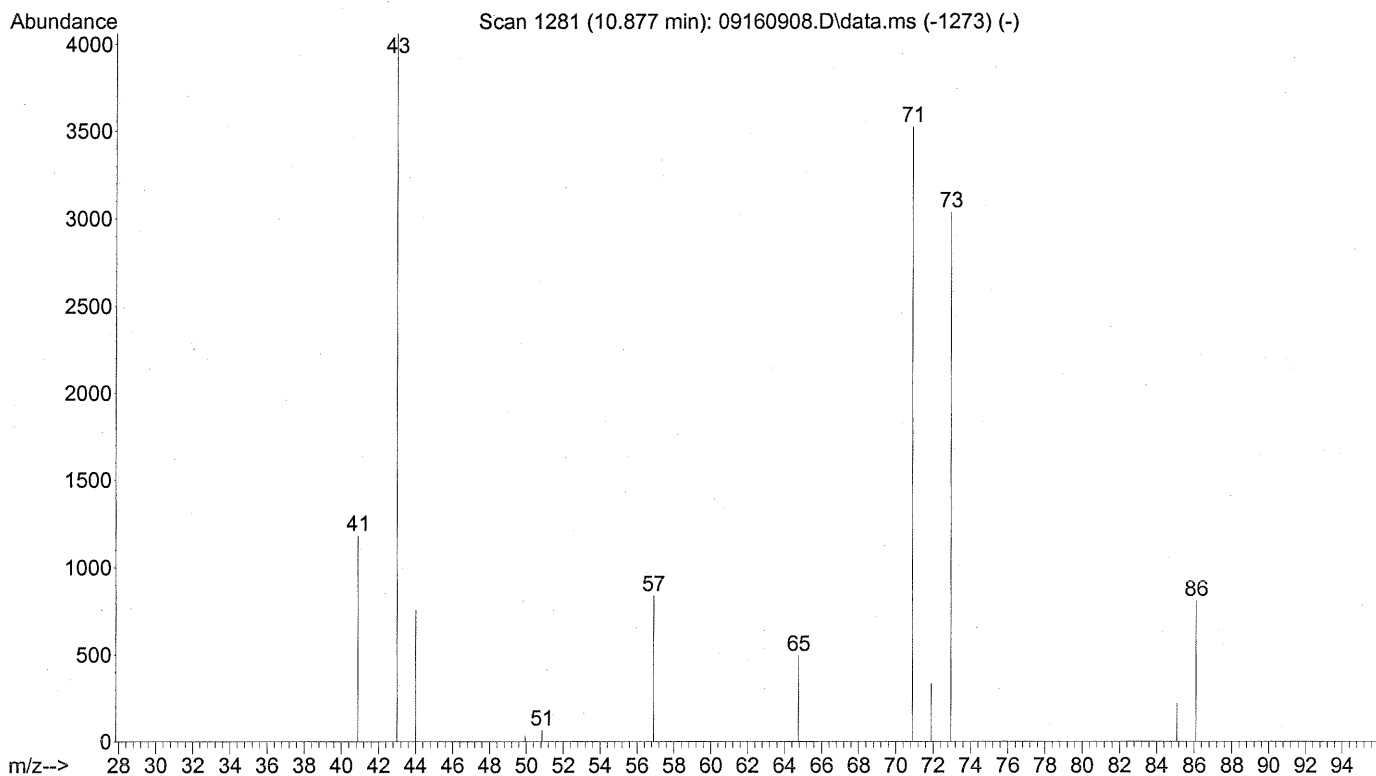
10.883min (+0.000) 0.29ng

response 10931

before

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	34.16
0.00	0.00	0.00
0.00	0.00	0.00

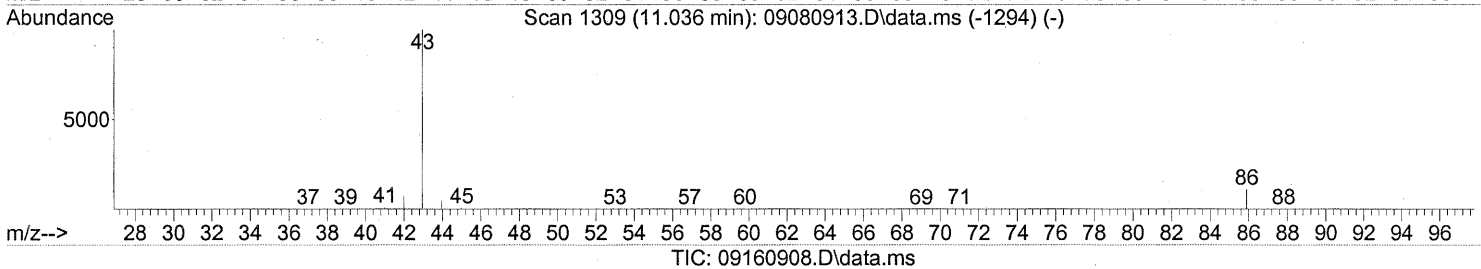
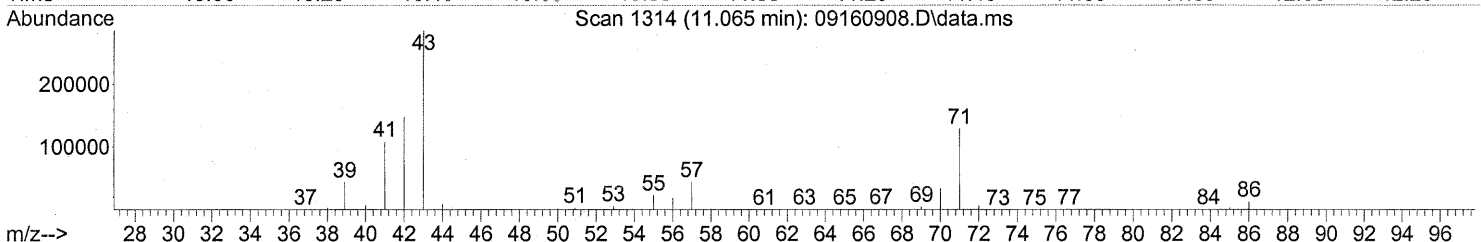
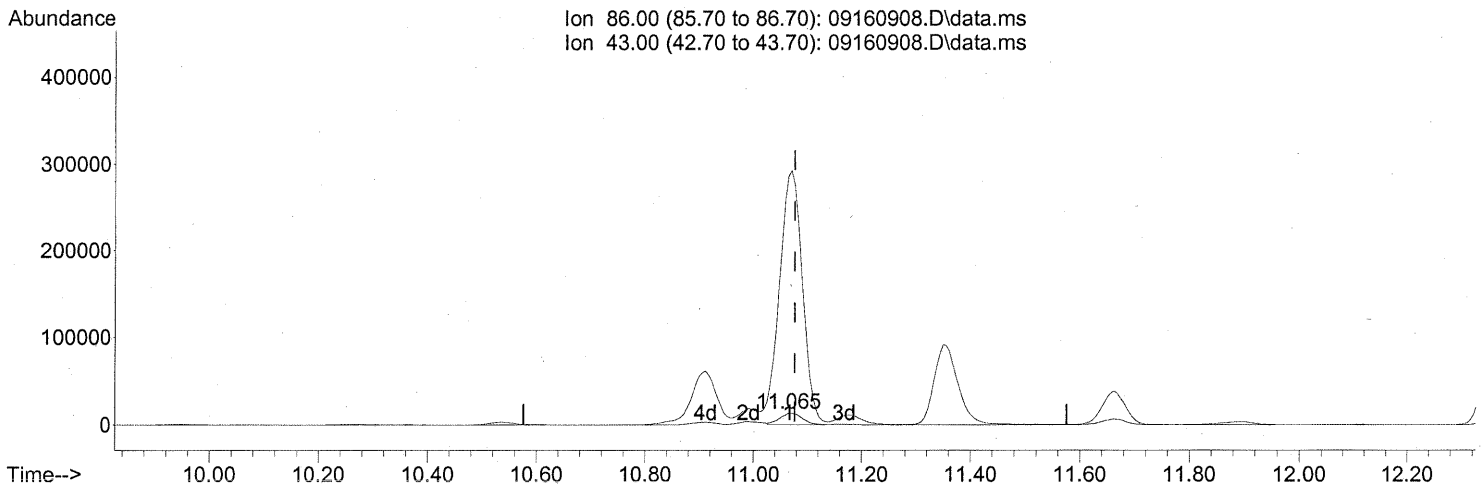
File :J:\MS16\DATA\2009_09\16\09160908.D
Operator : LH
Acquired : 16 Sep 2009 13:34 using AcqMethod TO15LT.M
Instrument : GCMS-16
Sample Name: P0903145-006 (450mL)
Misc Info : Environmental H & E 102715
Vial Number: 12



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160908.D
Acq On : 16 Sep 2009 13:34
Operator : LH
Sample : P0903145-006 (450mL)
Misc : Environmental H & E 102715
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)
11.065min (-0.011) 12.98ng

FP LH 9/18/09

response 38298

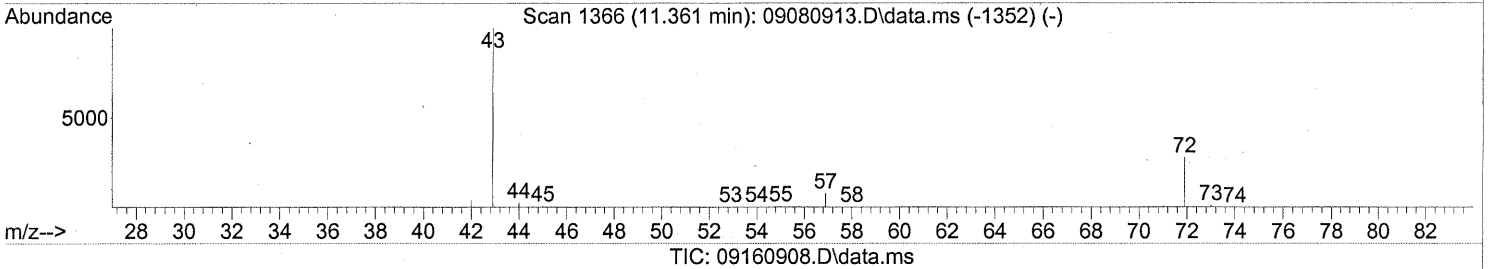
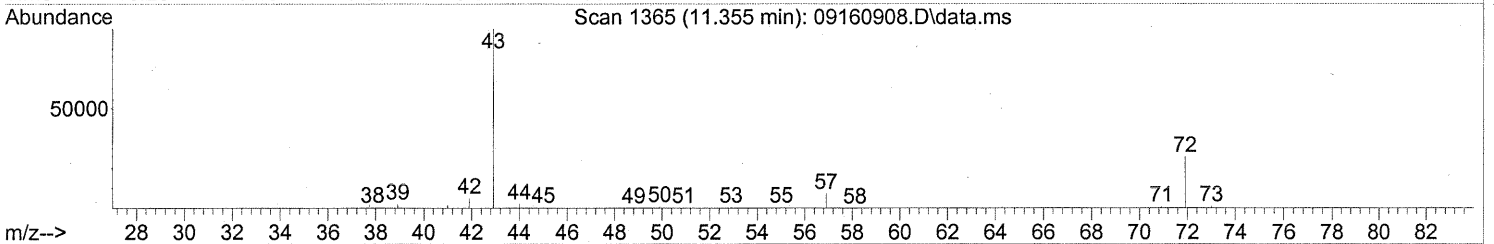
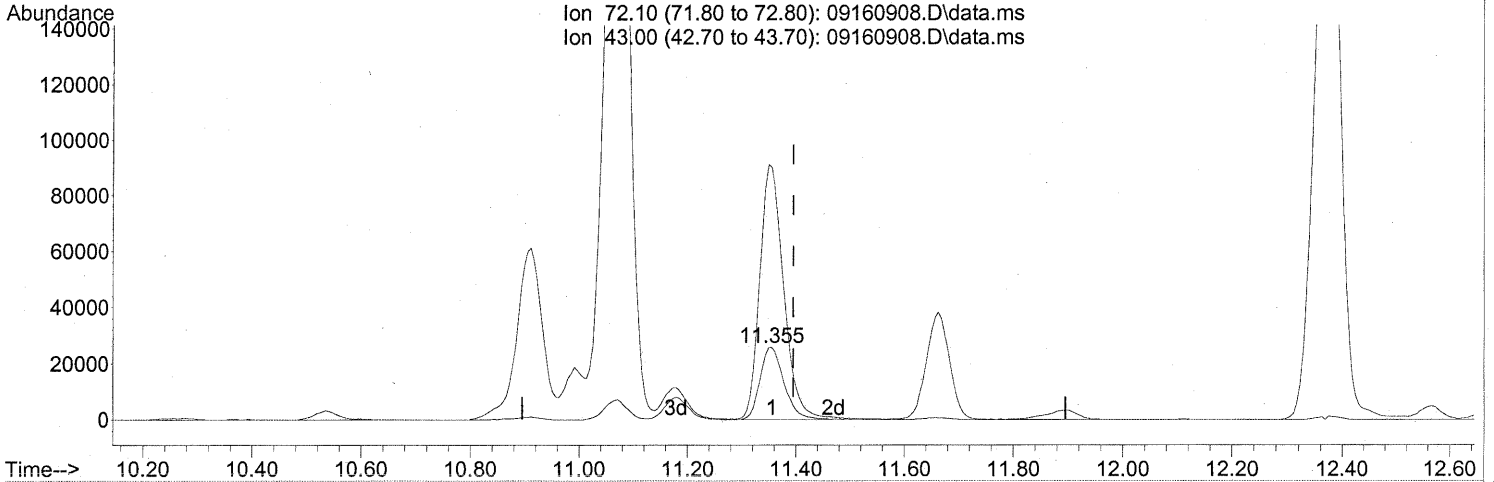
Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2254.02#
0.00	0.00	0.00
0.00	0.00	0.00

PA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.355min (-0.040) 8.42ng

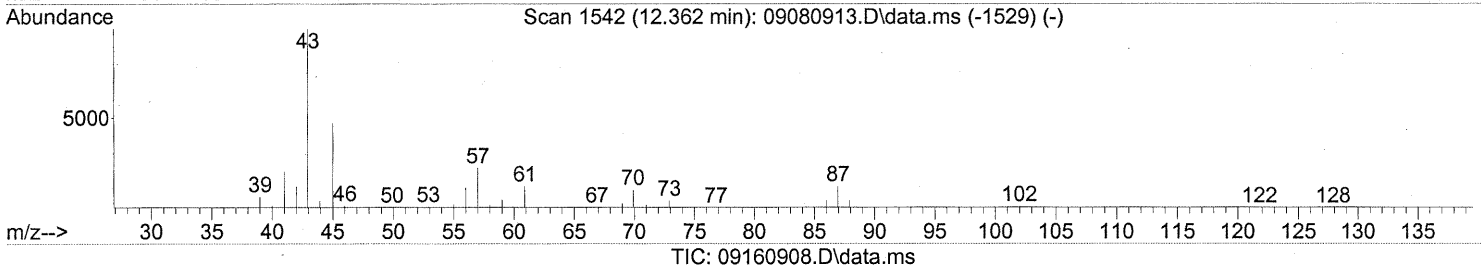
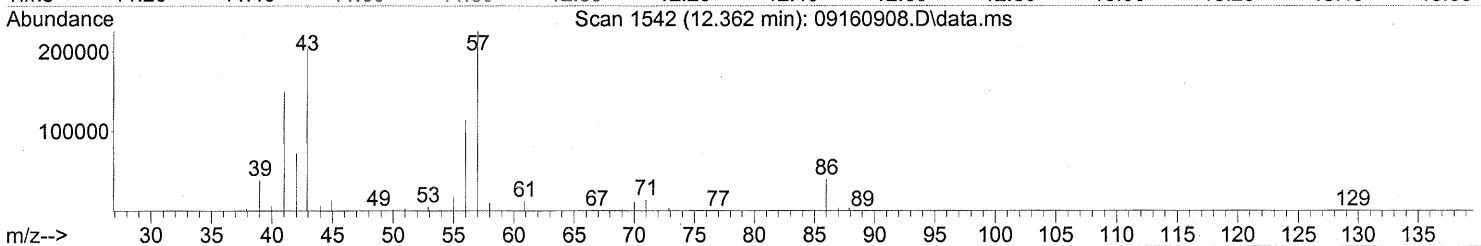
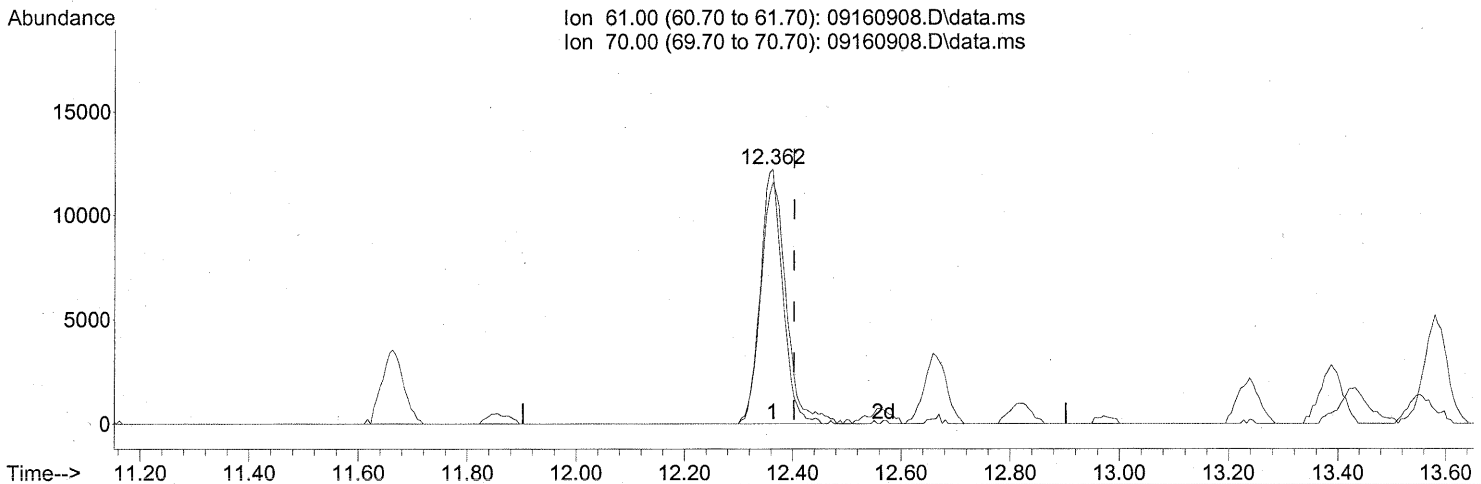
response 79282

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	350.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.362min (-0.040) 7.32ng

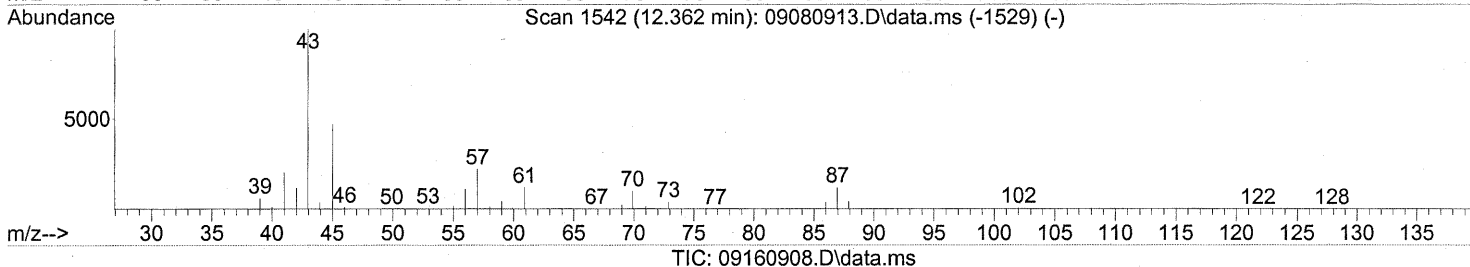
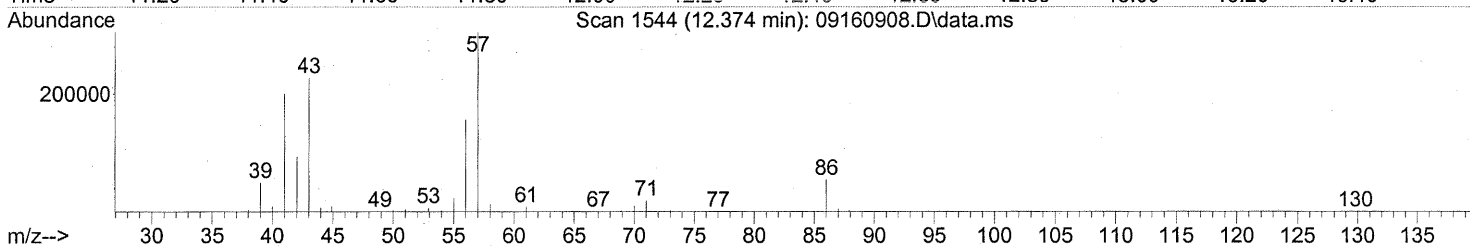
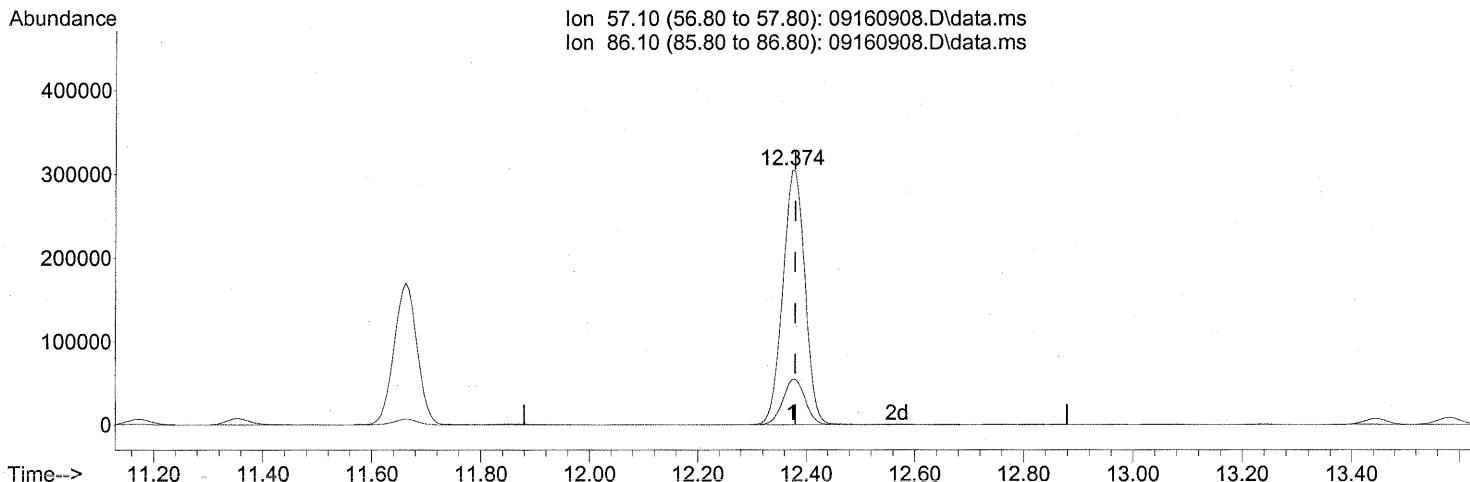
response 34962

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	108.60#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.374min (-0.006) 45.48ng

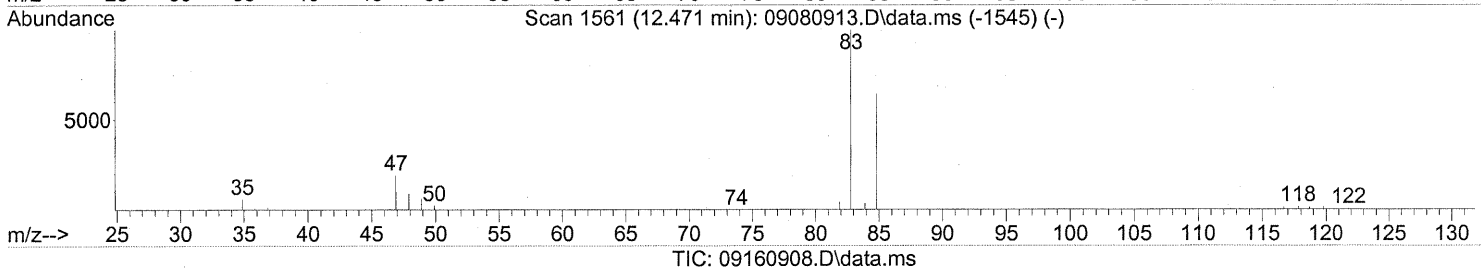
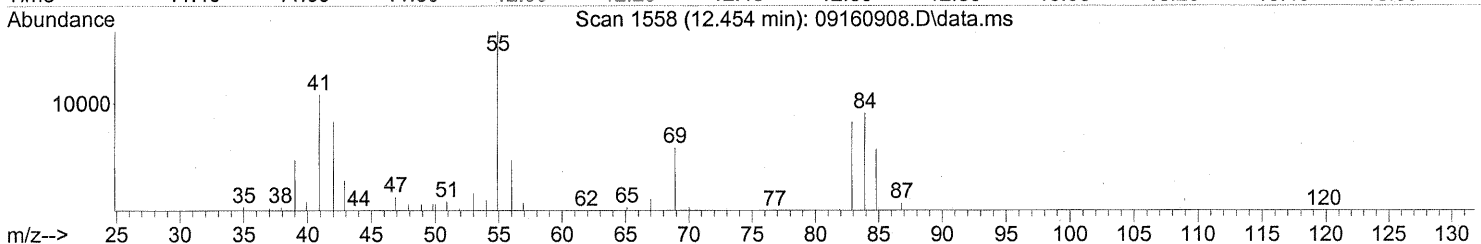
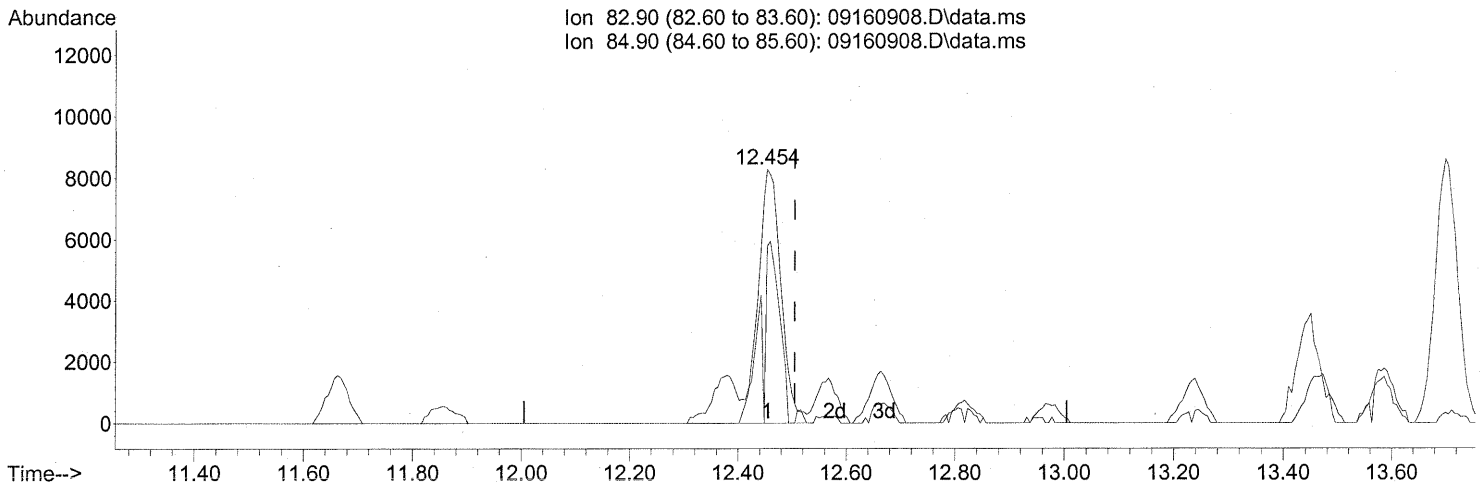
response 860924

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	17.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.454min (-0.051) 1.04ng

response 24255

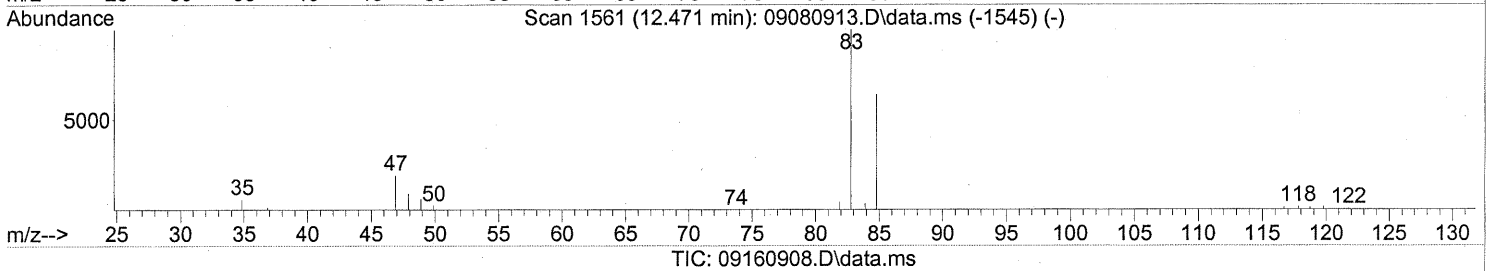
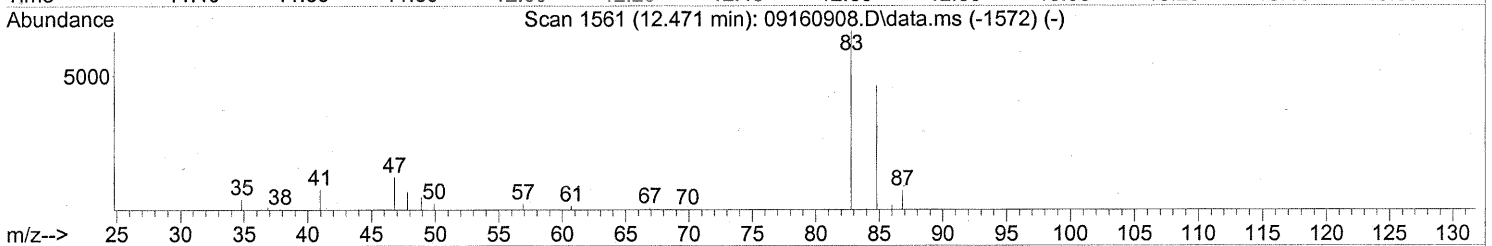
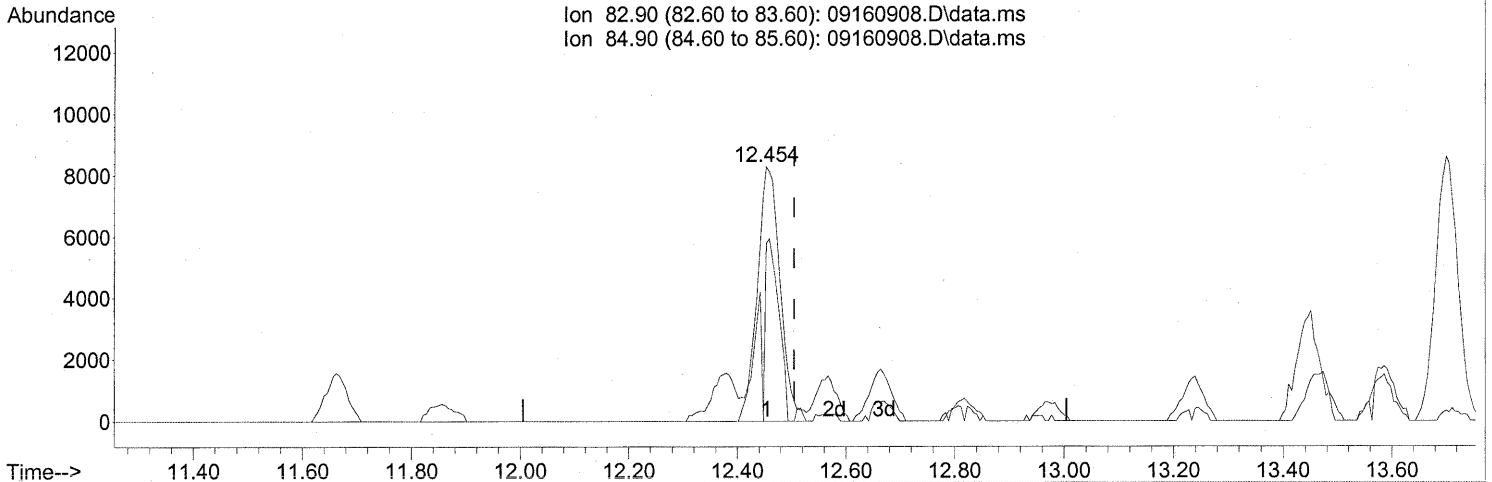
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	42.07#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.454min (-0.051) 1.04ng

response 24255

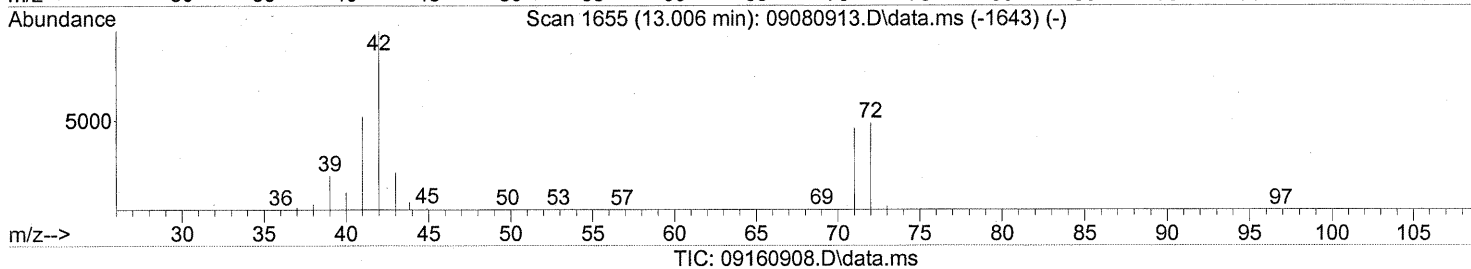
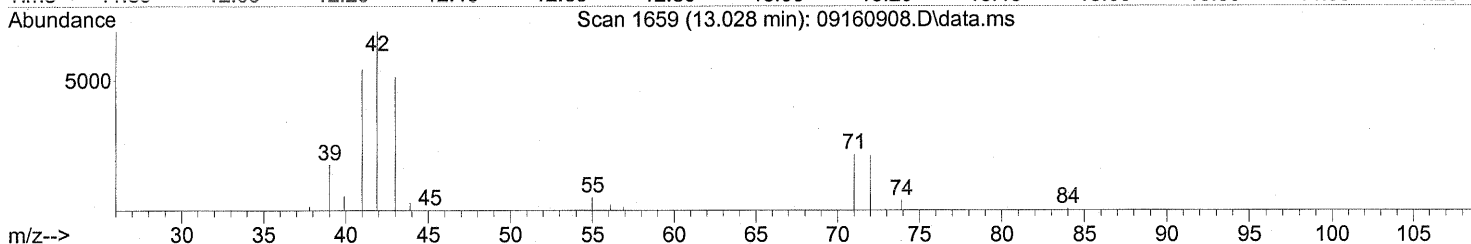
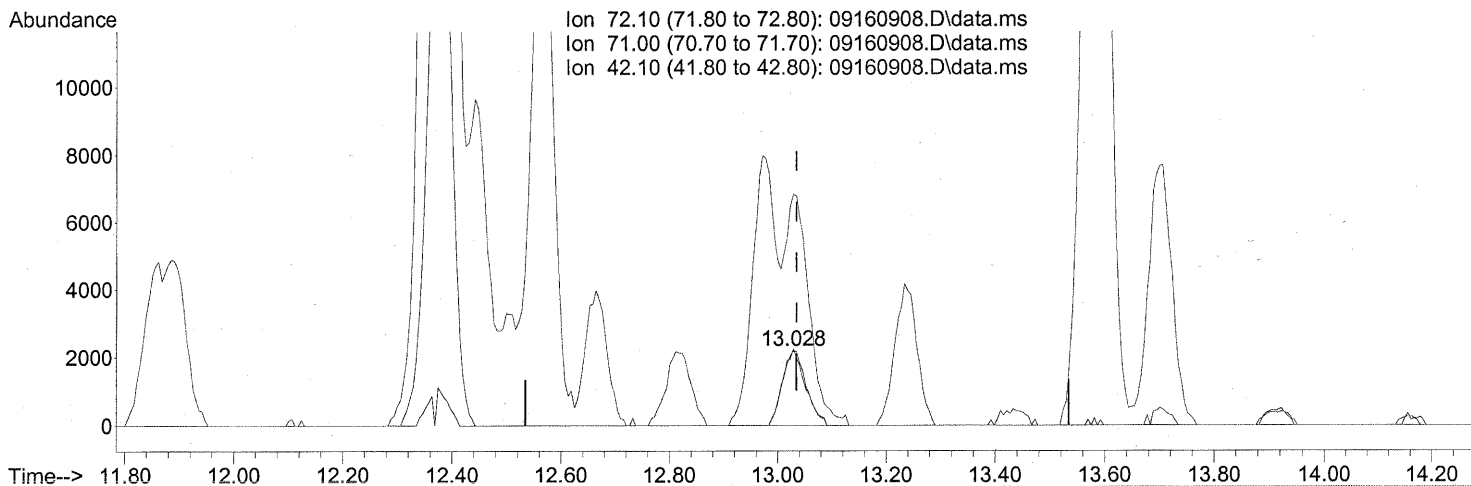
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	42.07#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.028min (-0.006) 0.77ng

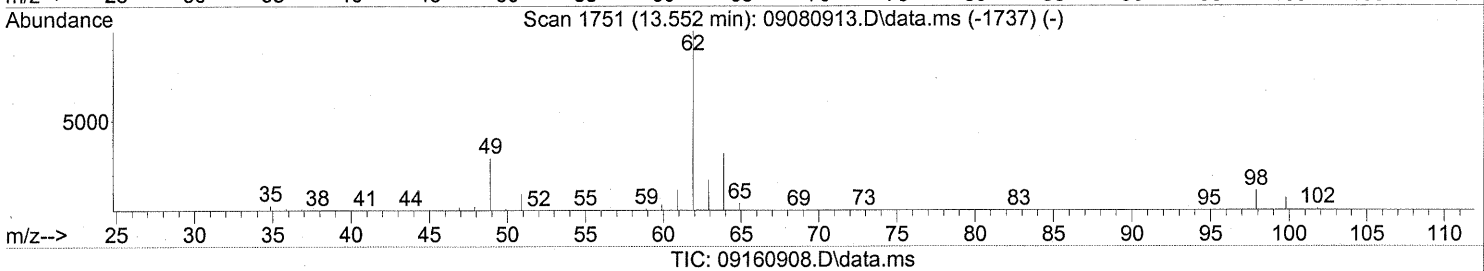
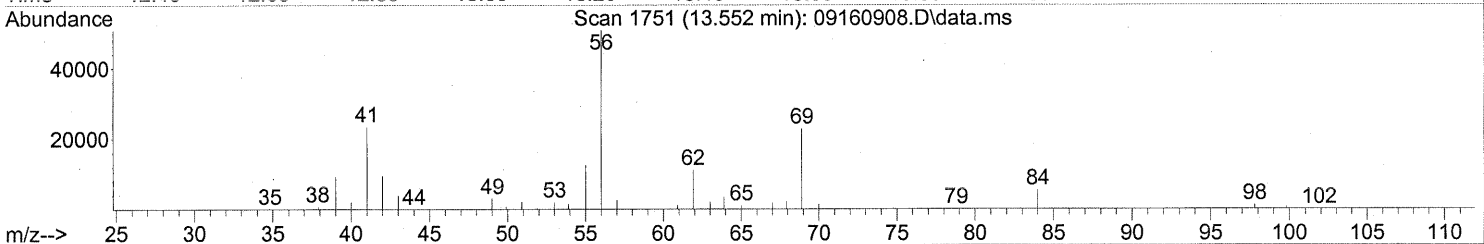
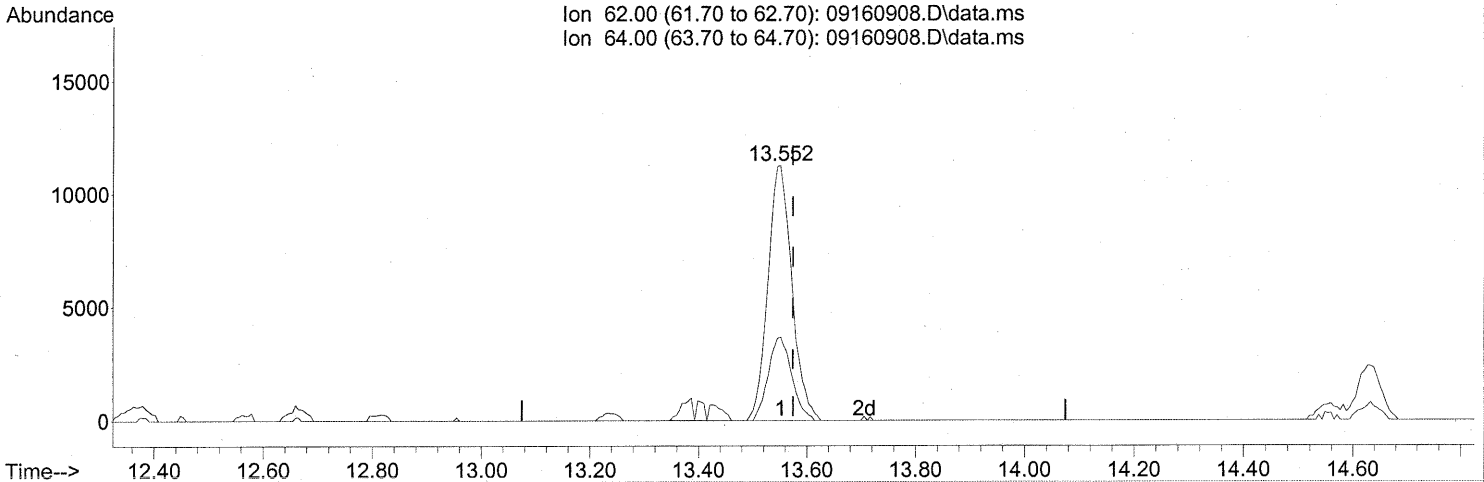
response 6692

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	97.09
42.10	240.00	285.04#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 2.16ng

response 34554

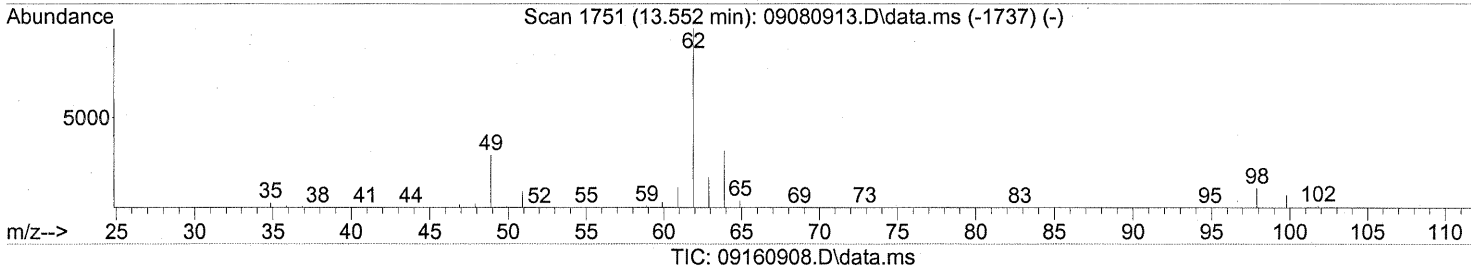
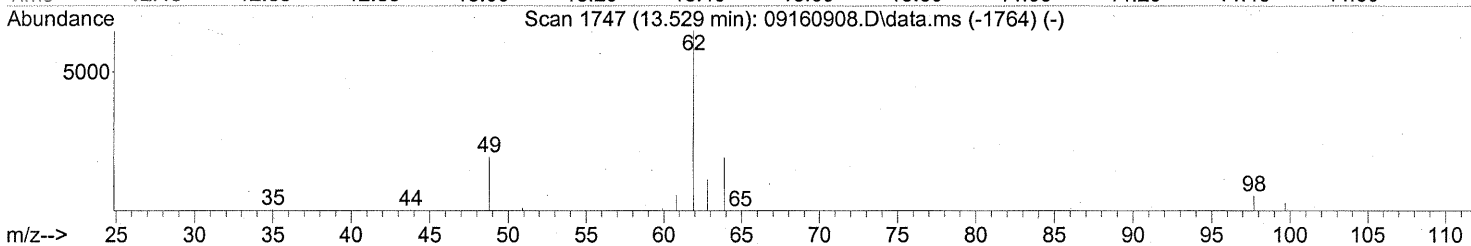
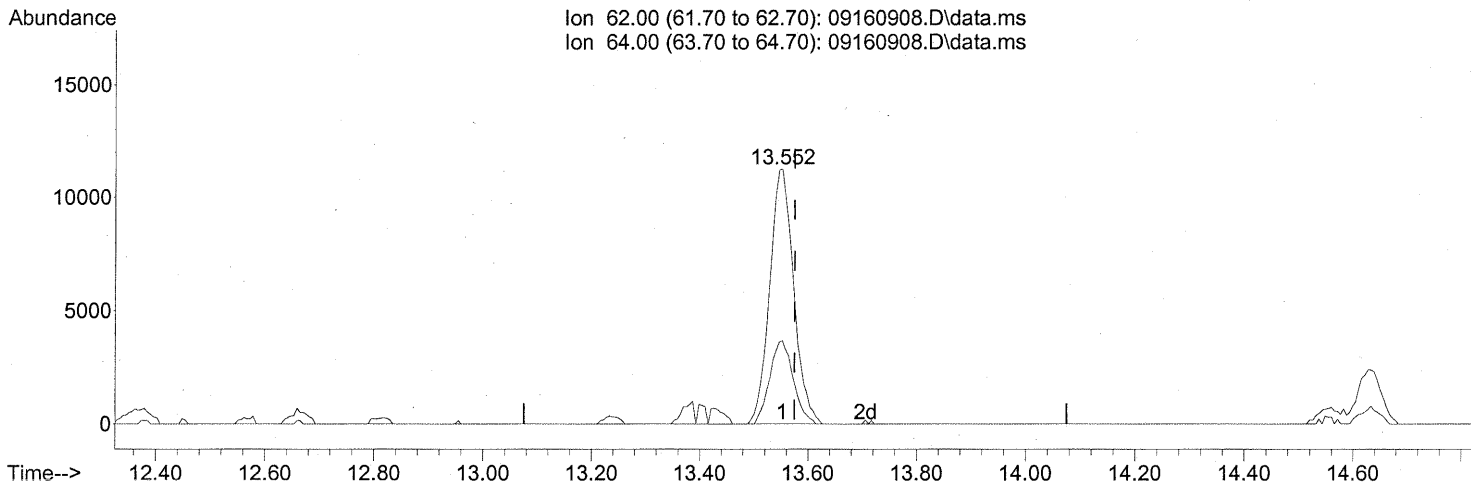
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.03
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 2.16ng

response 34554

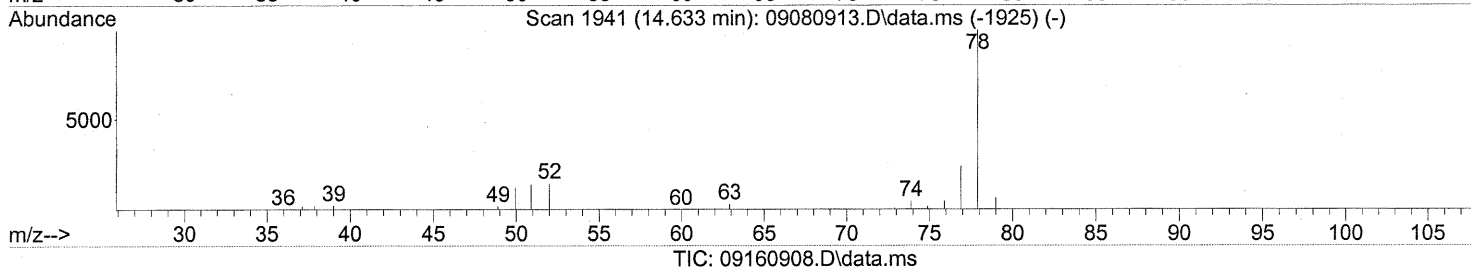
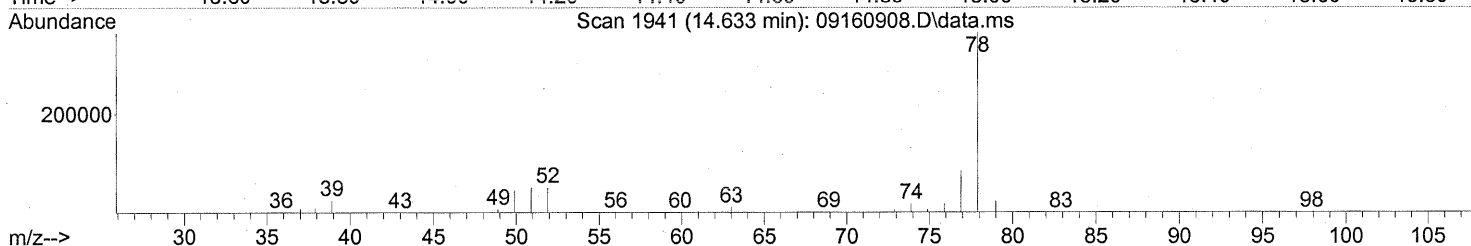
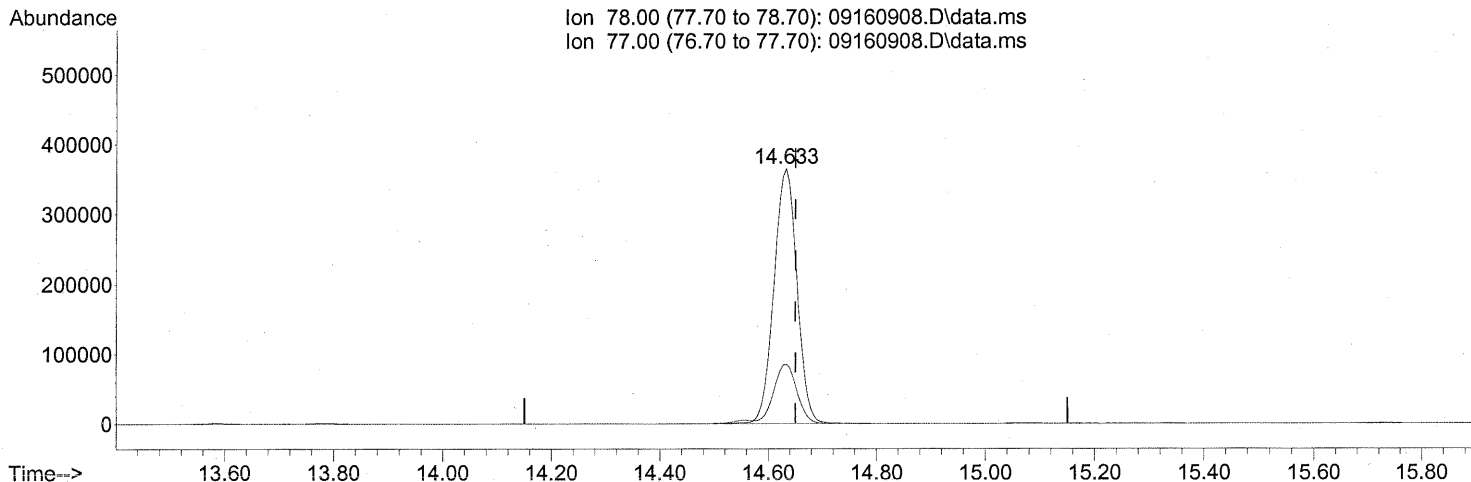
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.03
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160908.D
Acq On : 16 Sep 2009 13:34
Operator : LH
Sample : P0903145-006 (450mL)
Misc : Environmental H & E 102715
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(41) Benzene (T)

14.633min (-0.017) 19.06ng

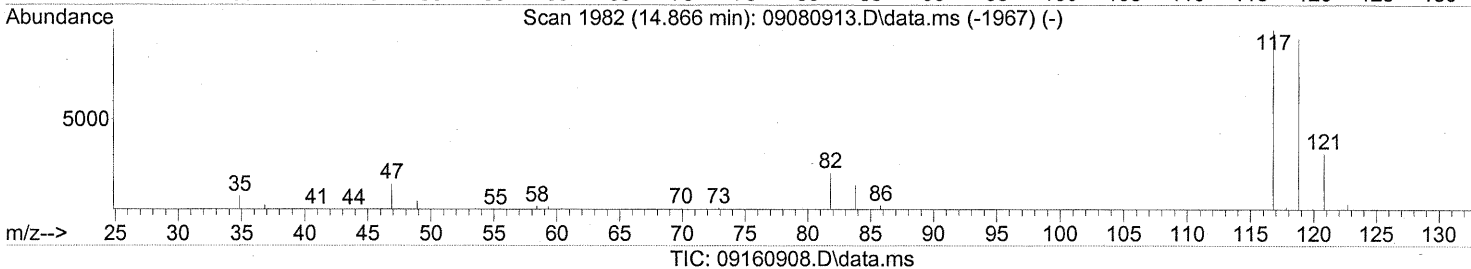
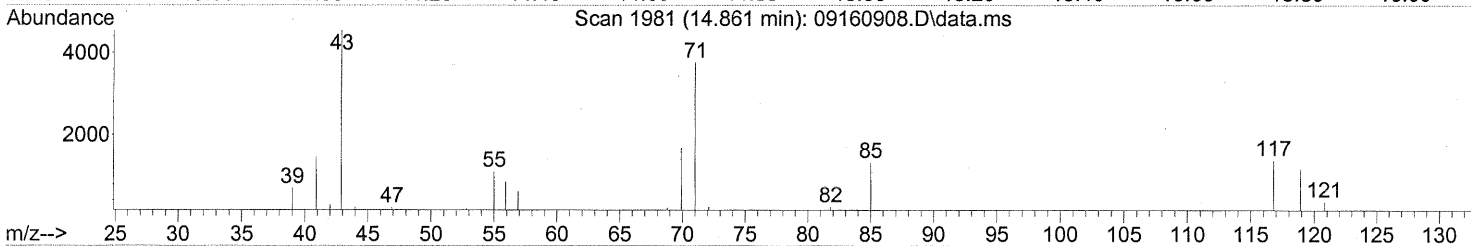
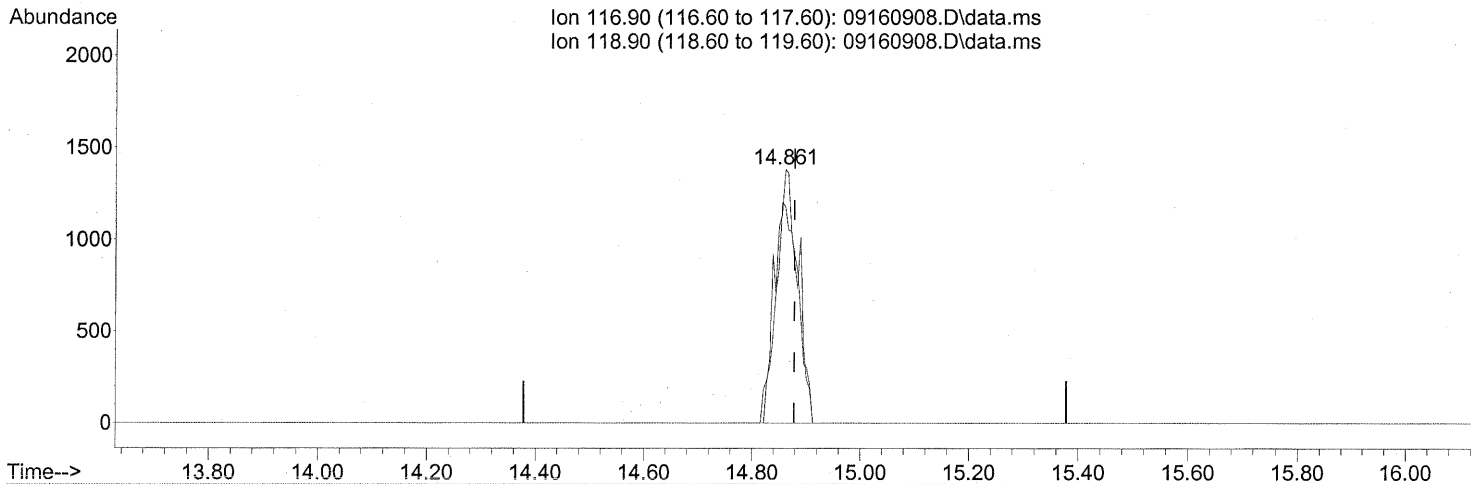
response 1078139

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.23ng

response 3885

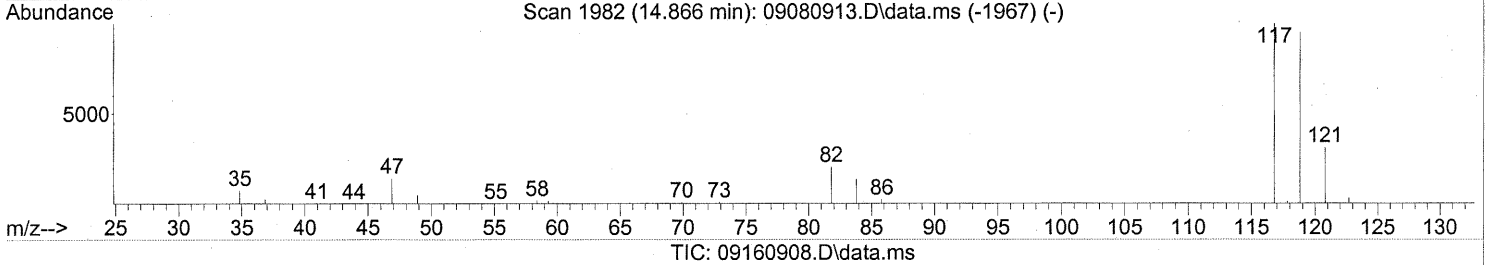
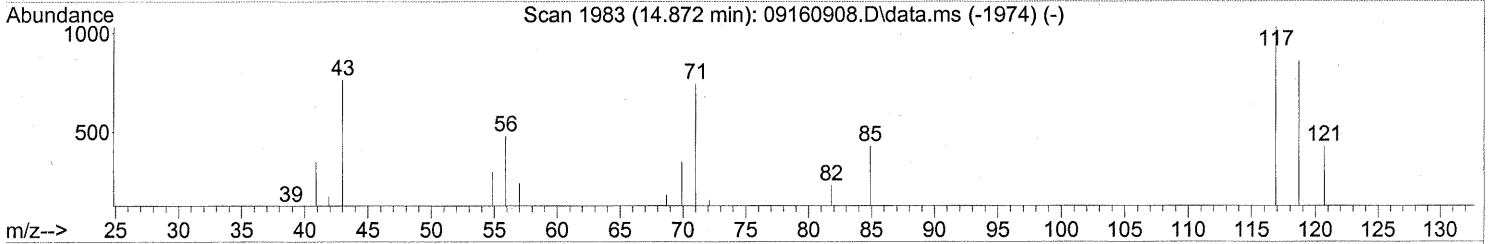
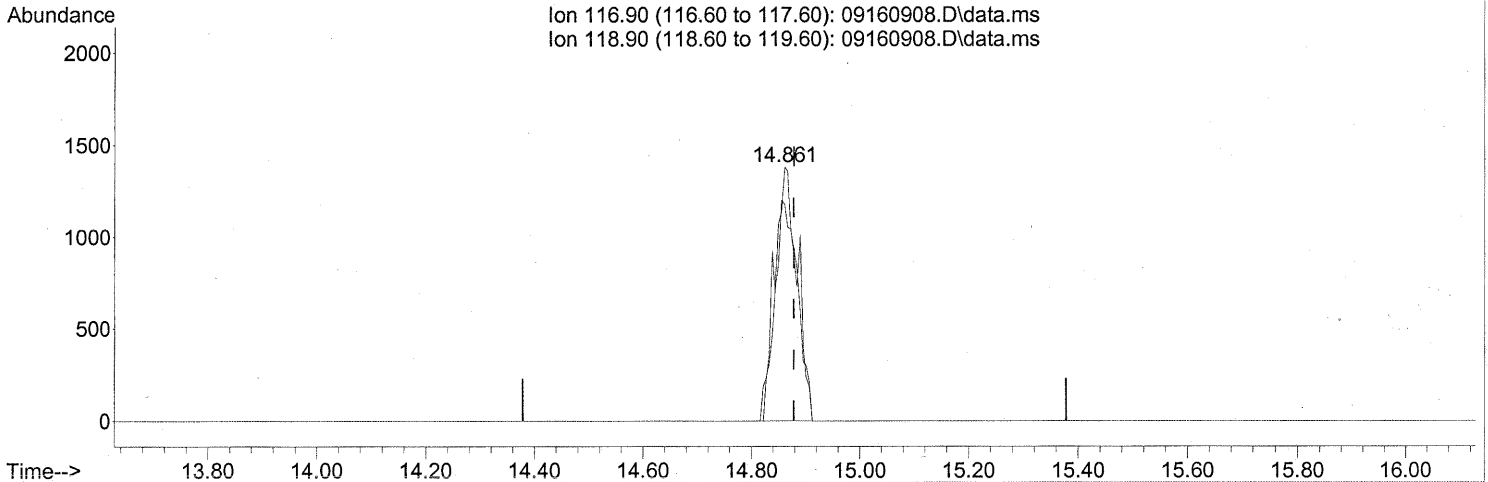
Ion	Exp%	Act%
116.90	100	100
118.90	97.90	93.72
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.23ng

response 3885

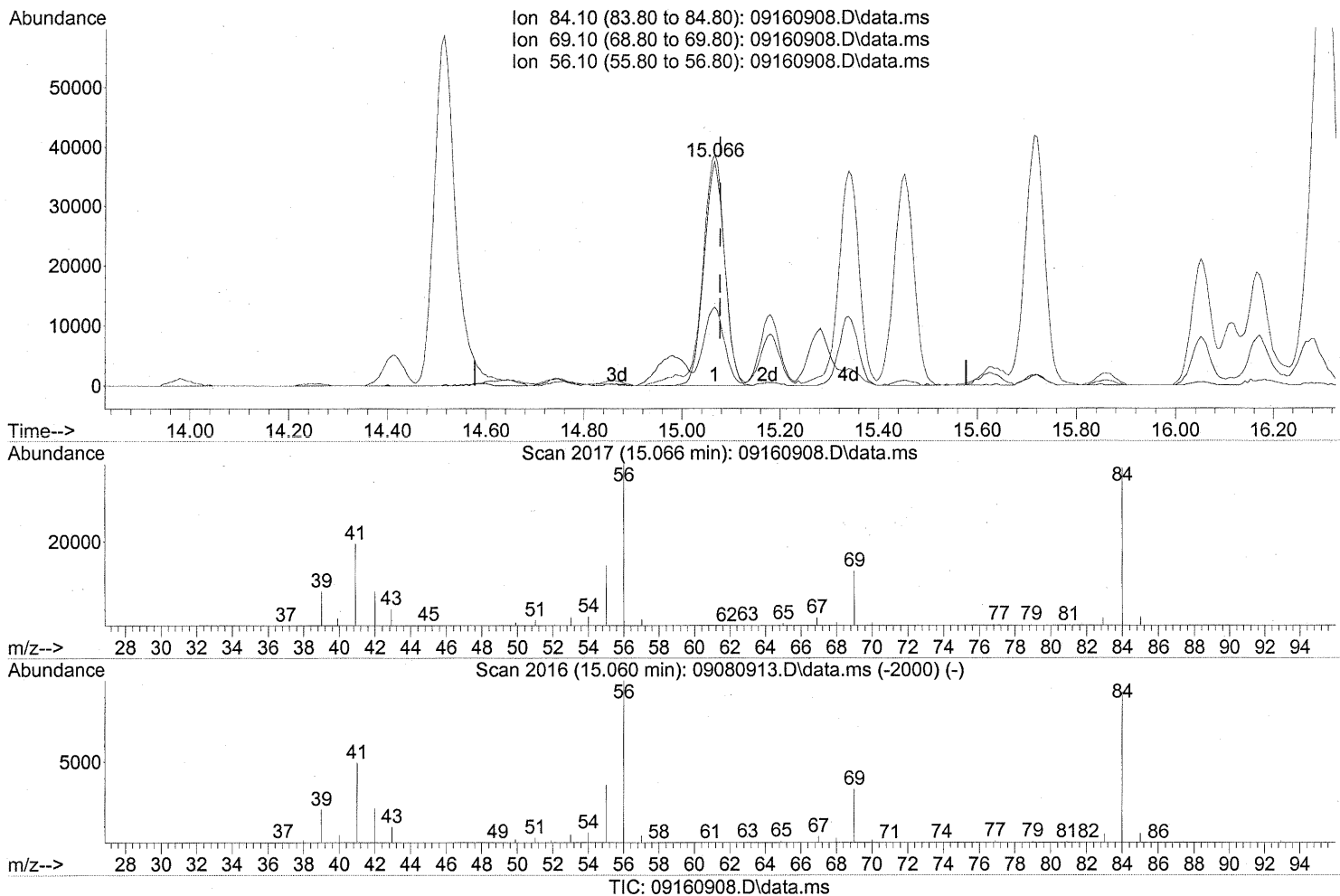
Ion	Exp%	Act%
116.90	100	100
118.90	97.90	93.72
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.066min (-0.011) 5.26ng

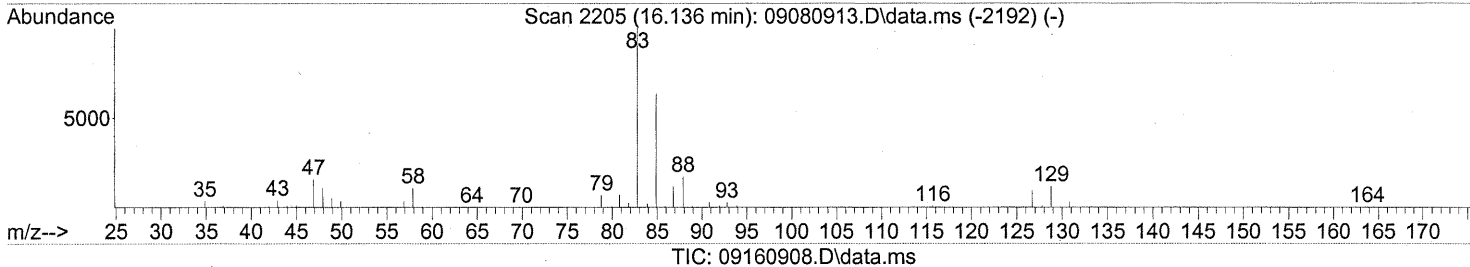
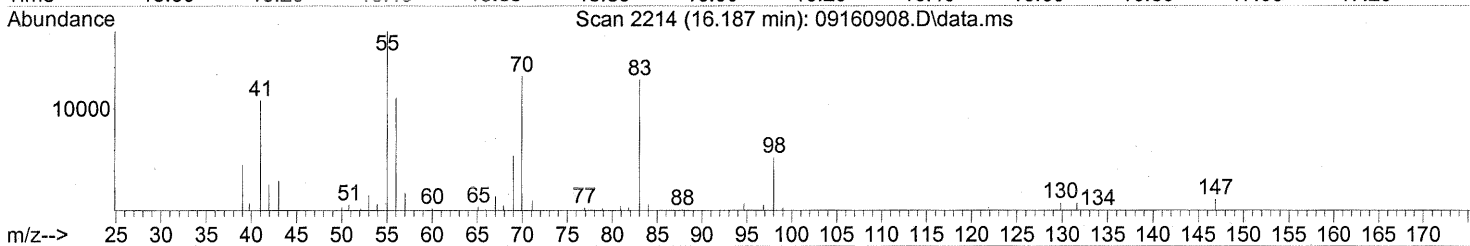
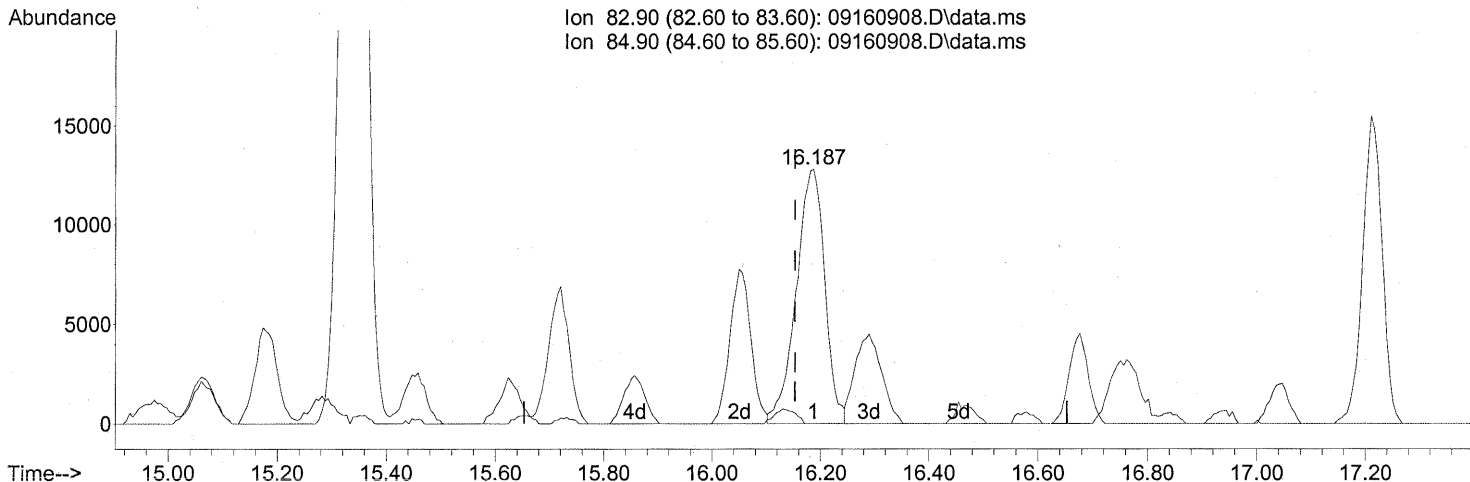
response 108552

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	35.53
56.10	124.60	106.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.187min (+0.034) 2.69ng

response 47120

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

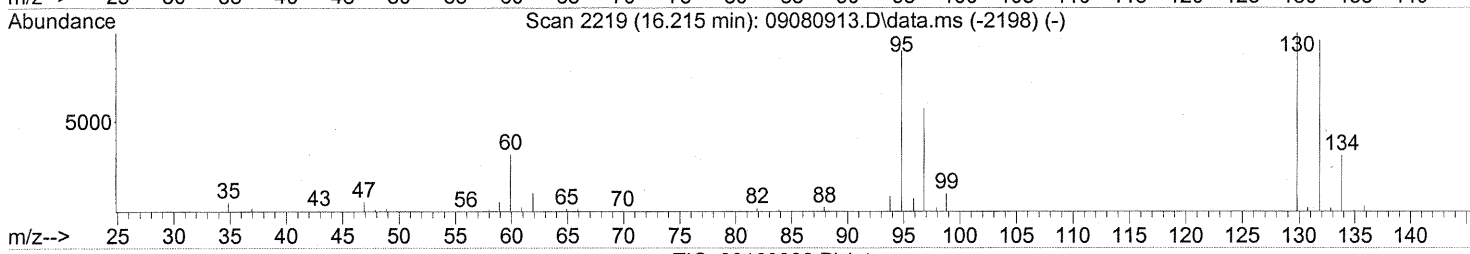
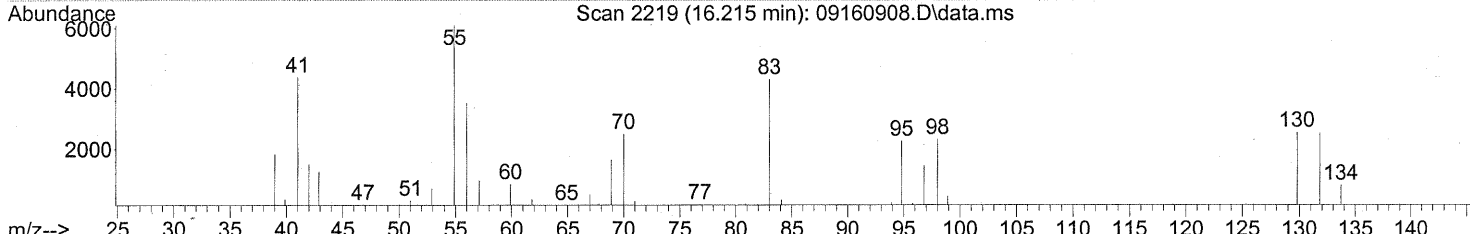
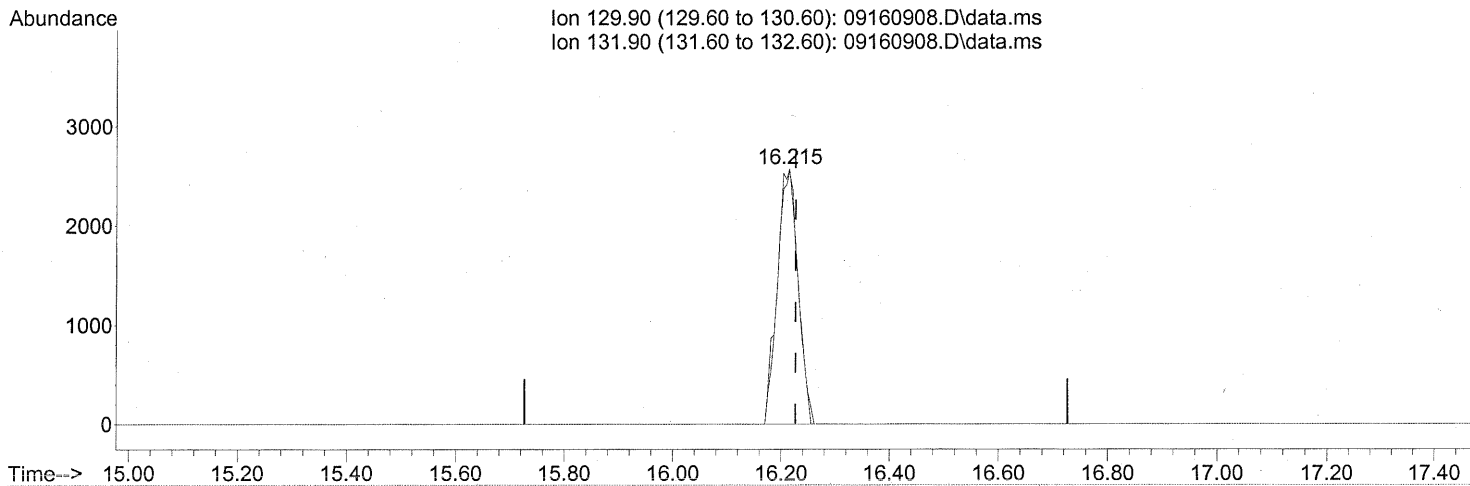
FR in 9/18/09

for 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.215min (-0.011) 0.41ng

response 6908

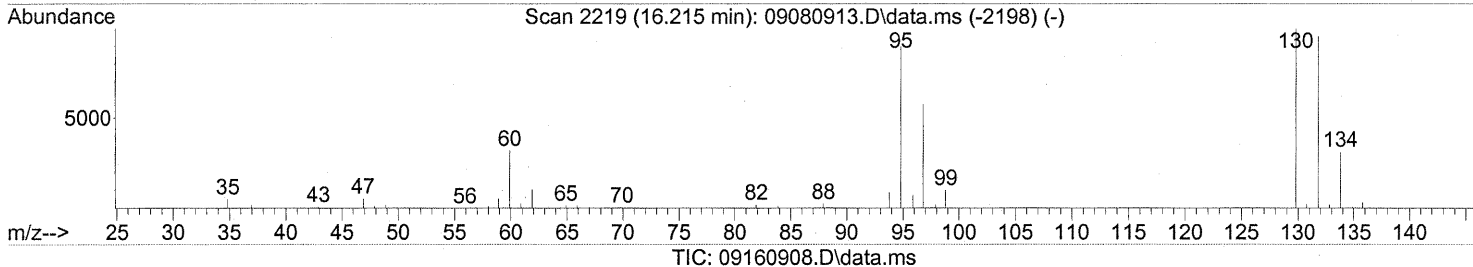
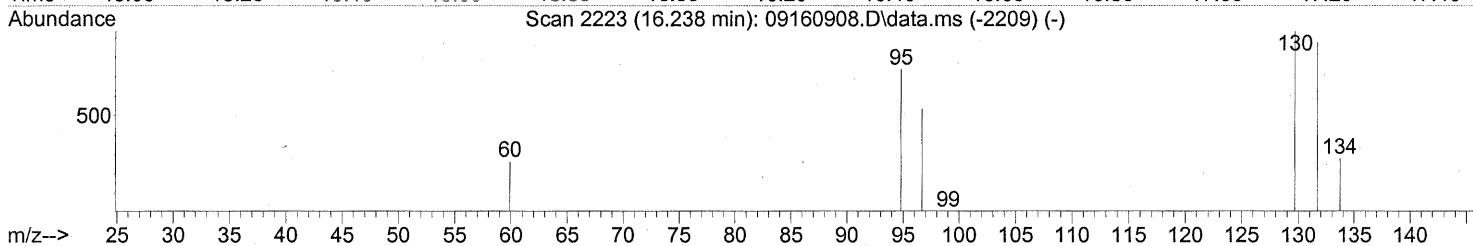
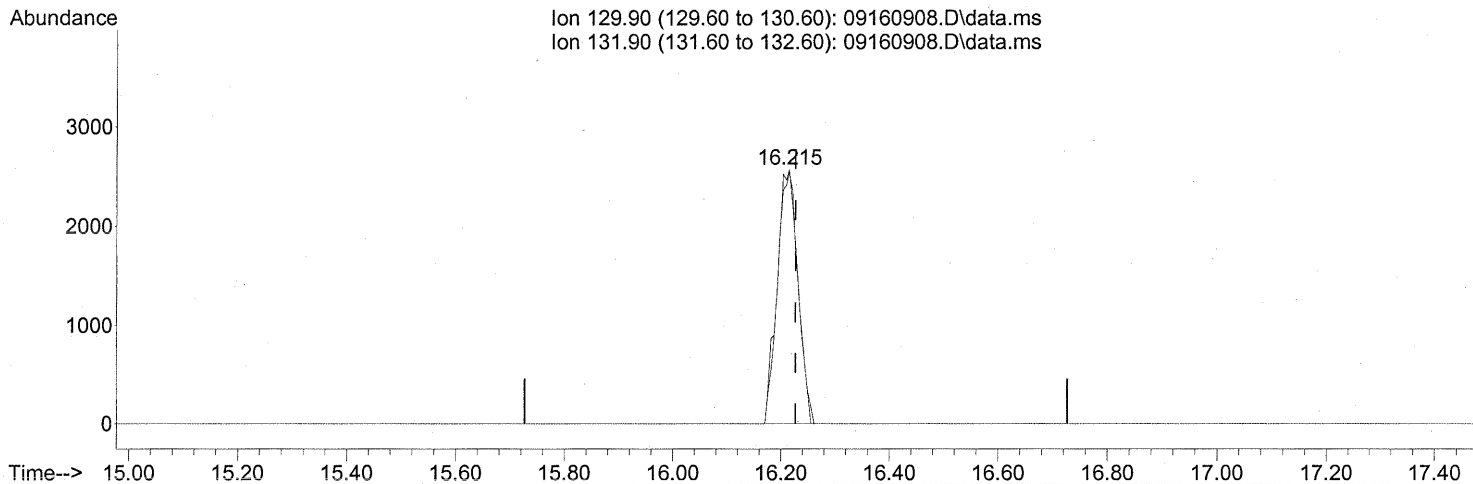
Ion	Exp%	Act%
129.90	100	100
131.90	95.80	96.53
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(47) Trichloroethene (T)
 16.215min (-0.011) 0.41ng
 response 6908

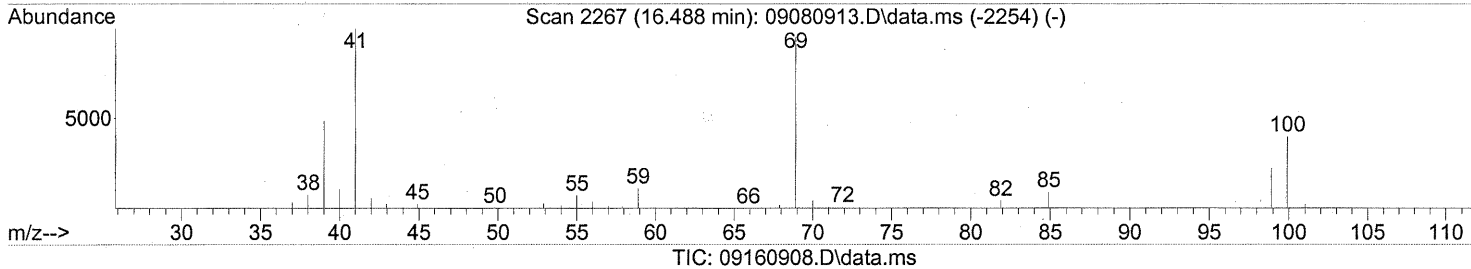
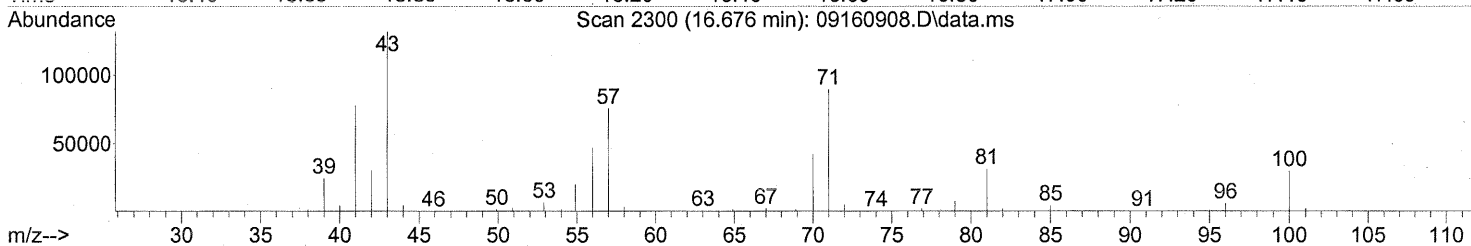
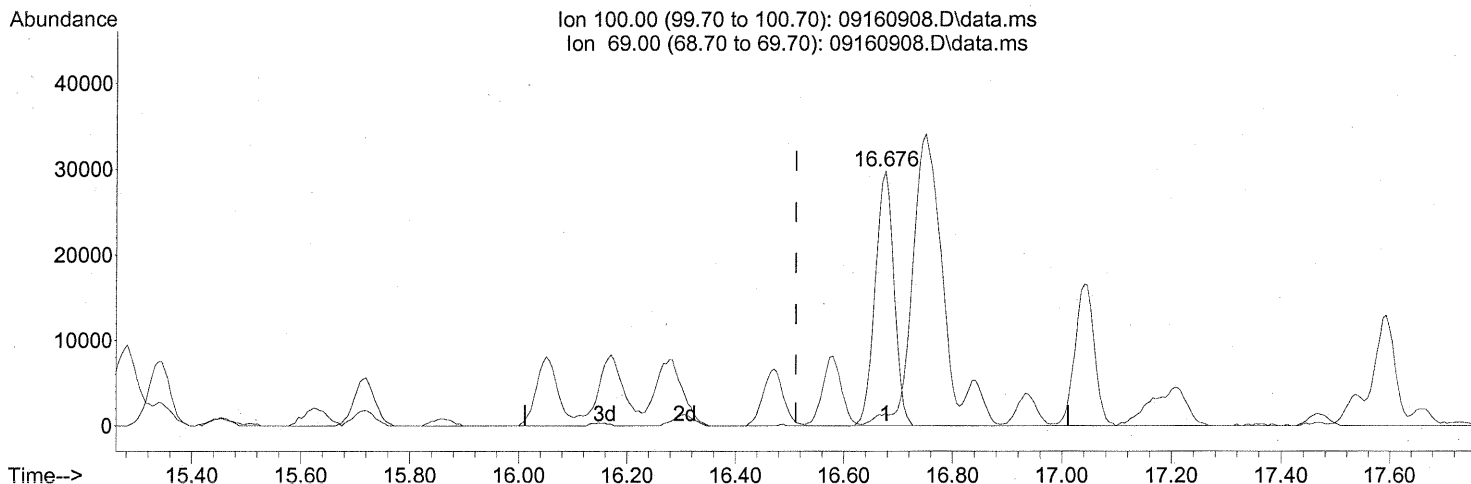
Ion	Exp%	Act%
129.90	100	100
131.90	95.80	96.53
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.676min (+0.165) 11.04ng

response 71744

Ion	Exp%	Act%
100.00	100	100
69.00	280.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

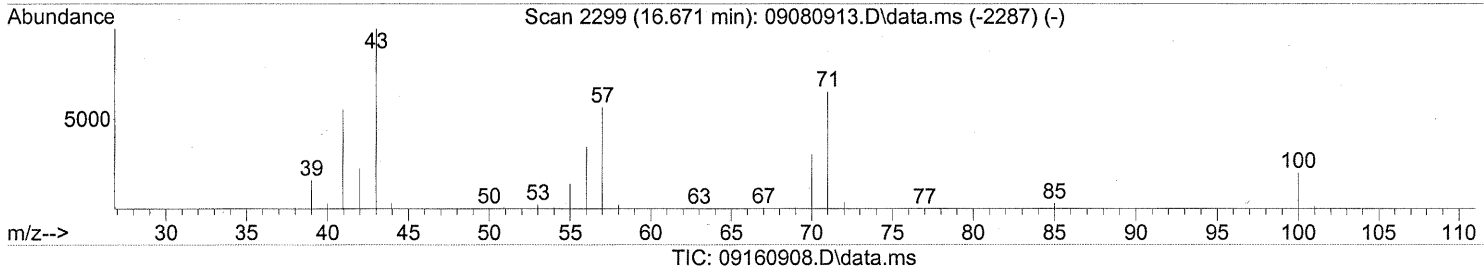
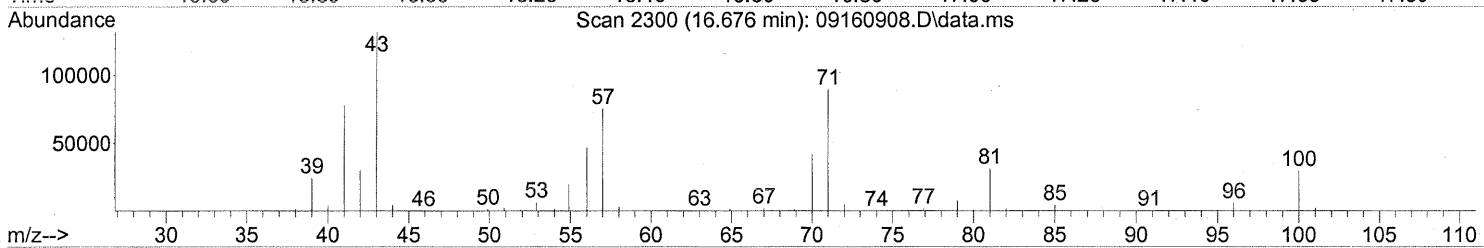
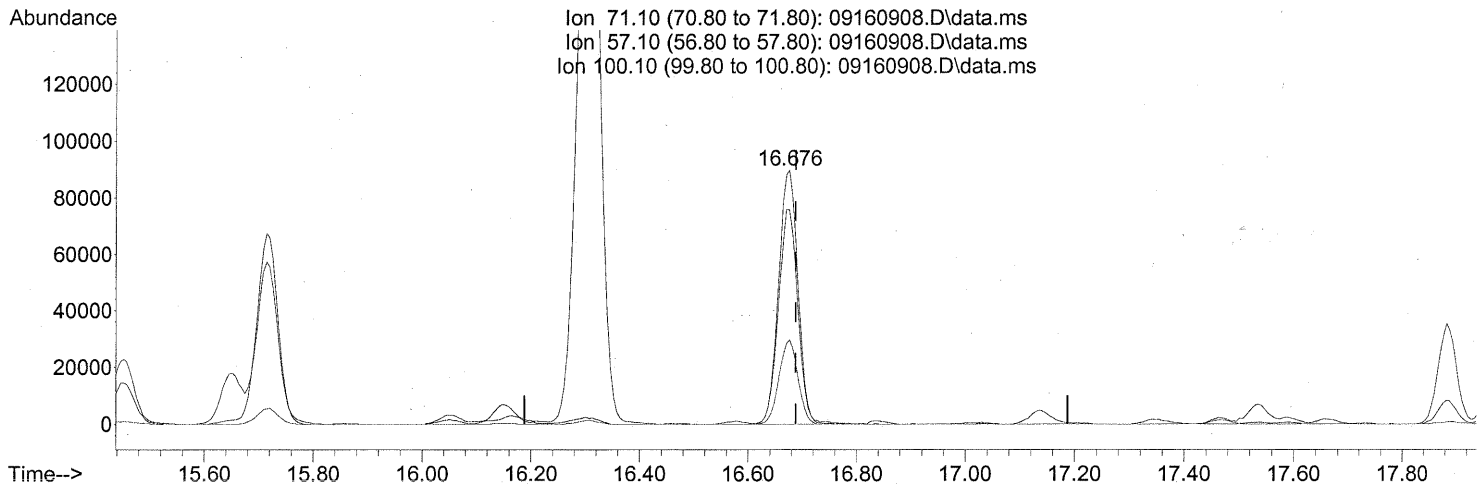
FP via 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



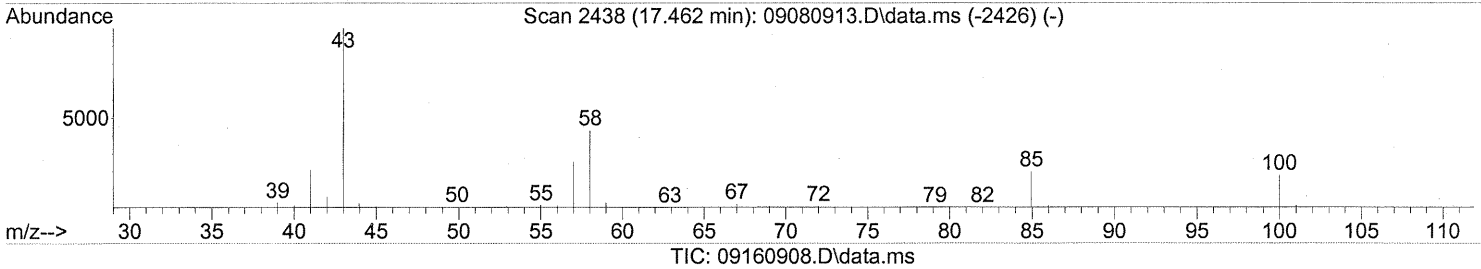
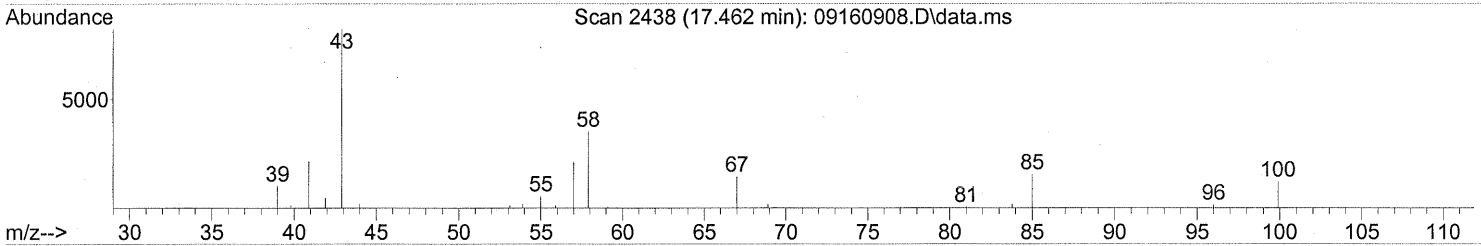
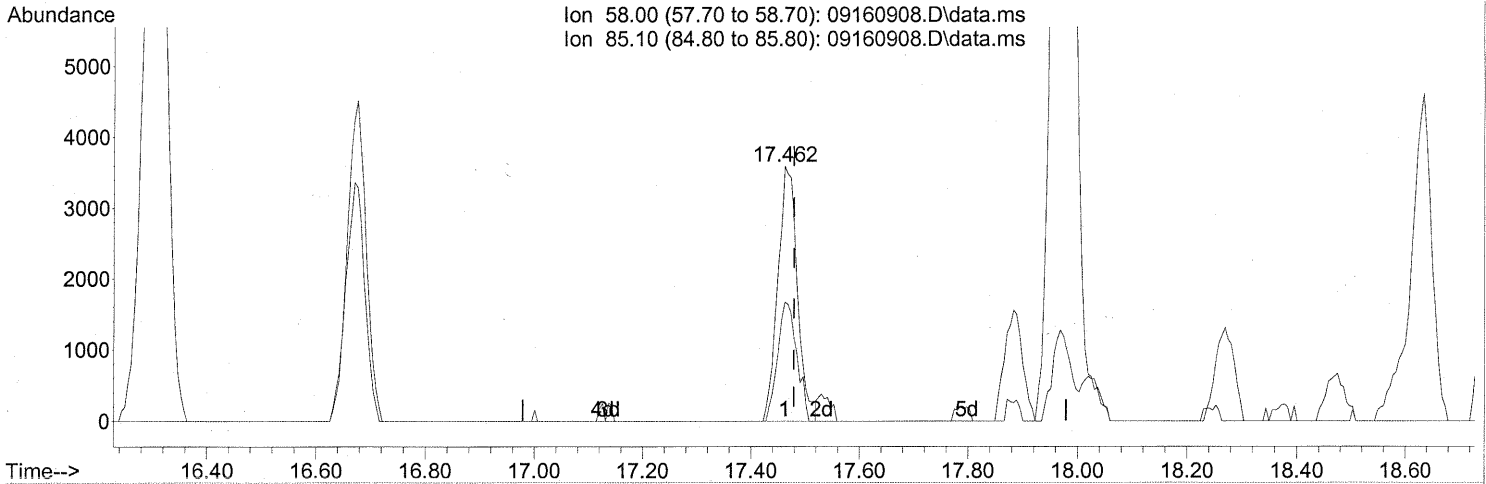
(51) n-Heptane (T)
 16.676min (-0.011) 15.34ng
 response 221422

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	85.38
100.10	26.80	32.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:27:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 0.71ng

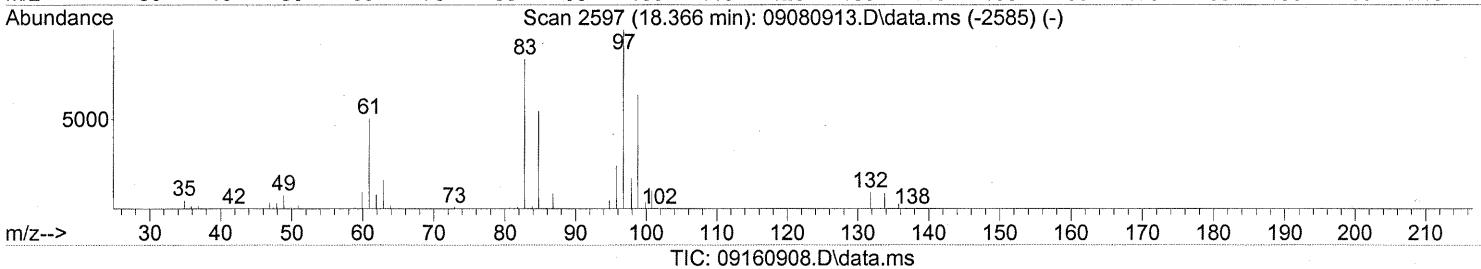
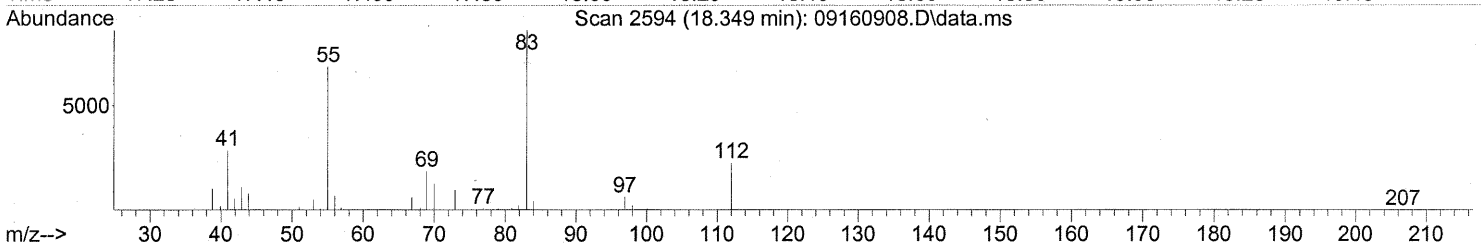
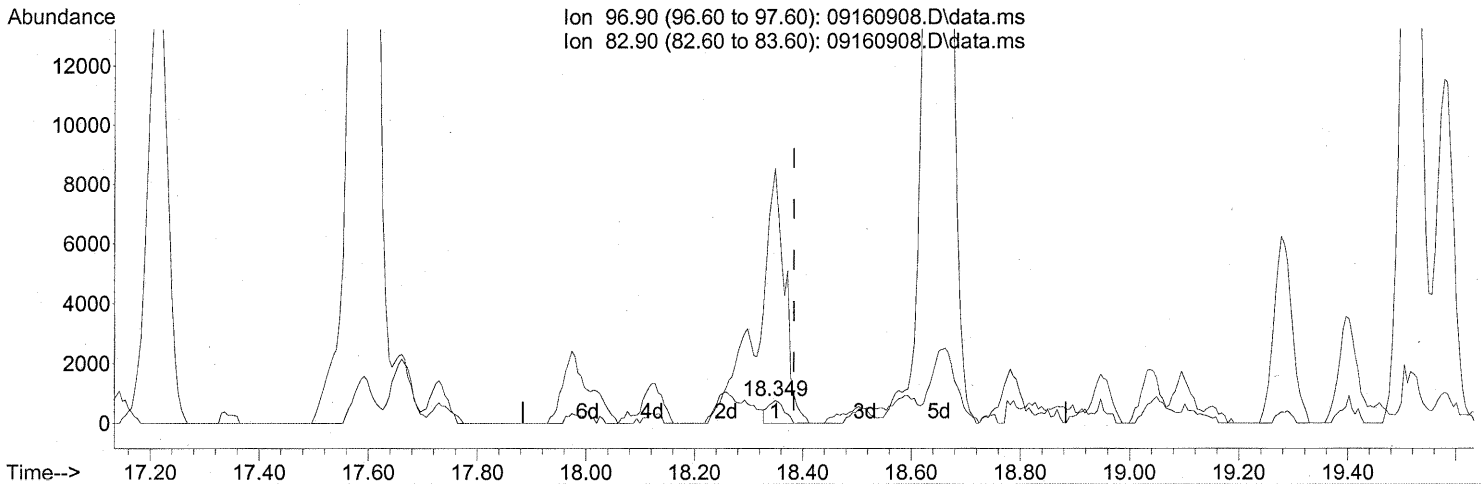
response 8930

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	45.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.349min (-0.034) 0.11ng

response 1596

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	1296.68#
0.00	0.00	0.00
0.00	0.00	0.00

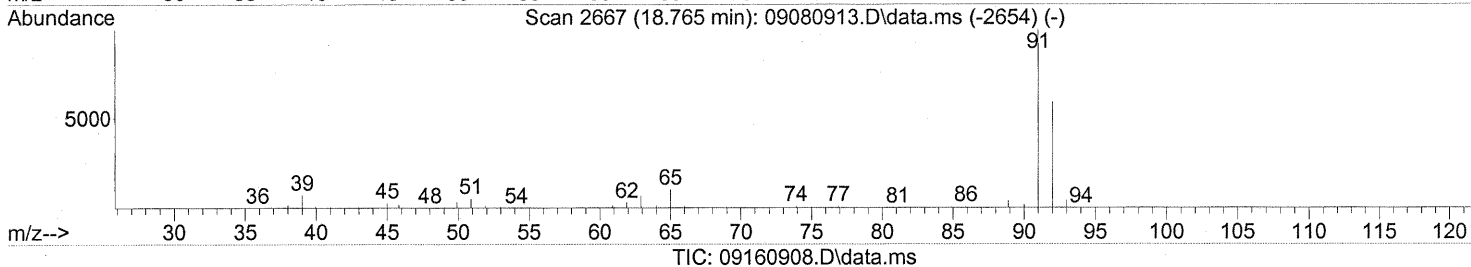
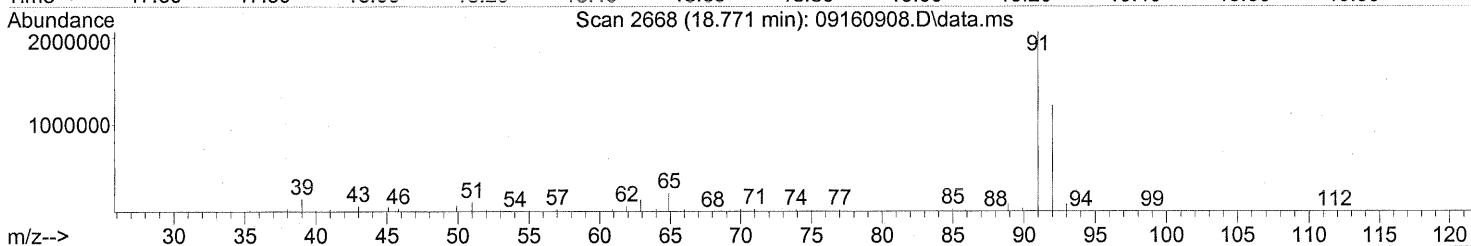
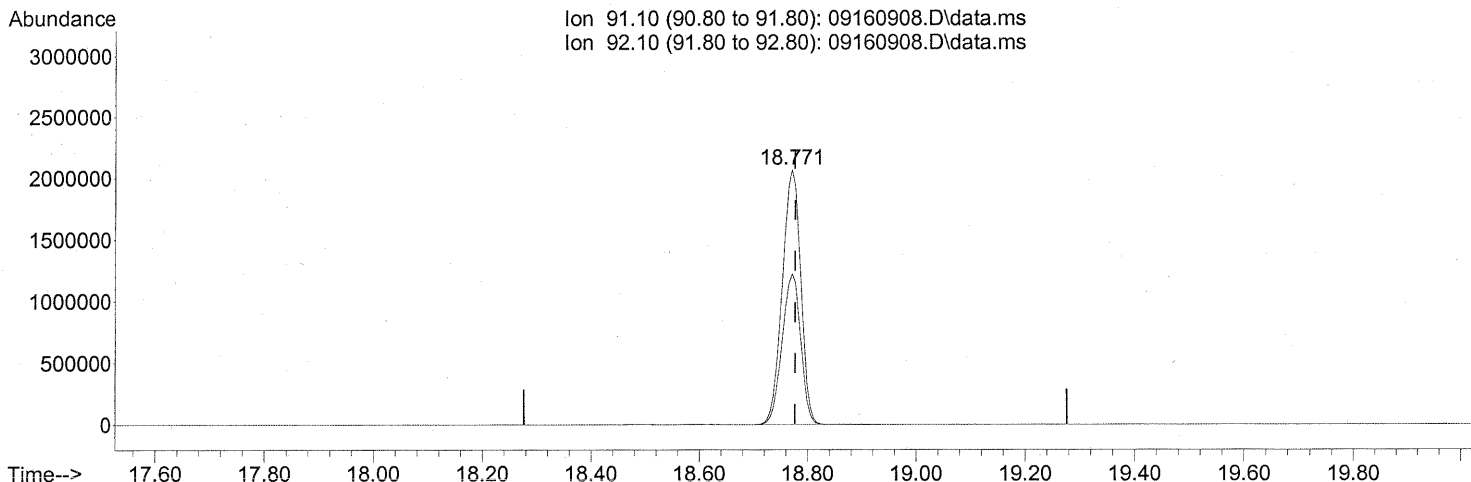
FP UR 9/18/07

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(58) Toluene (T)

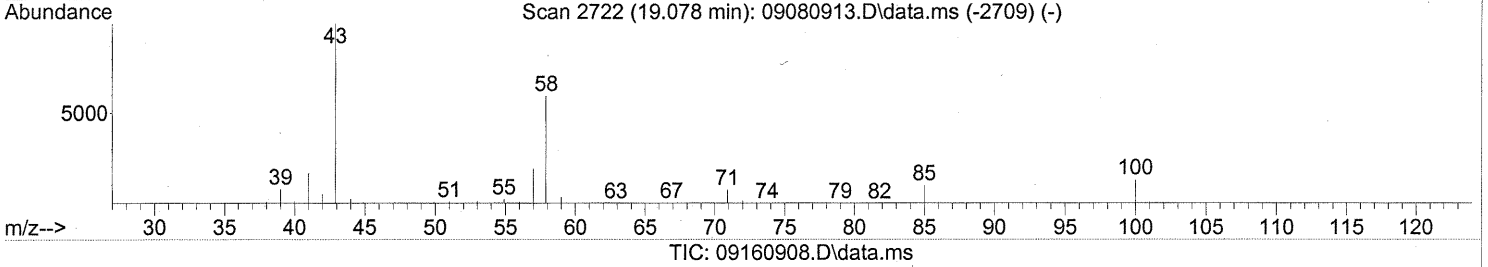
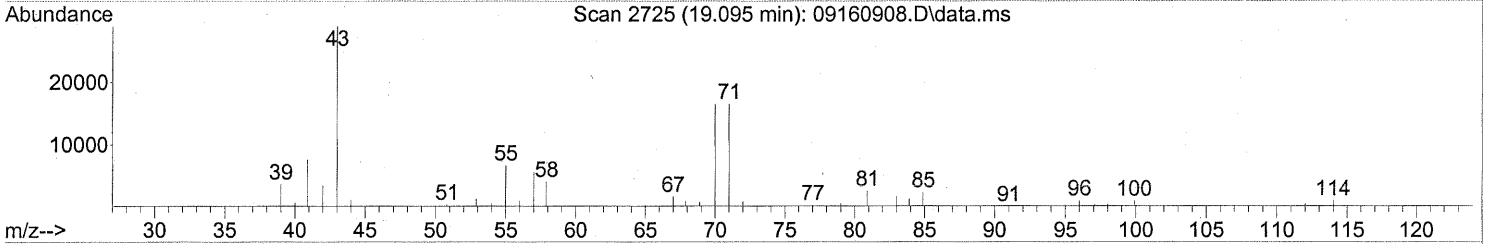
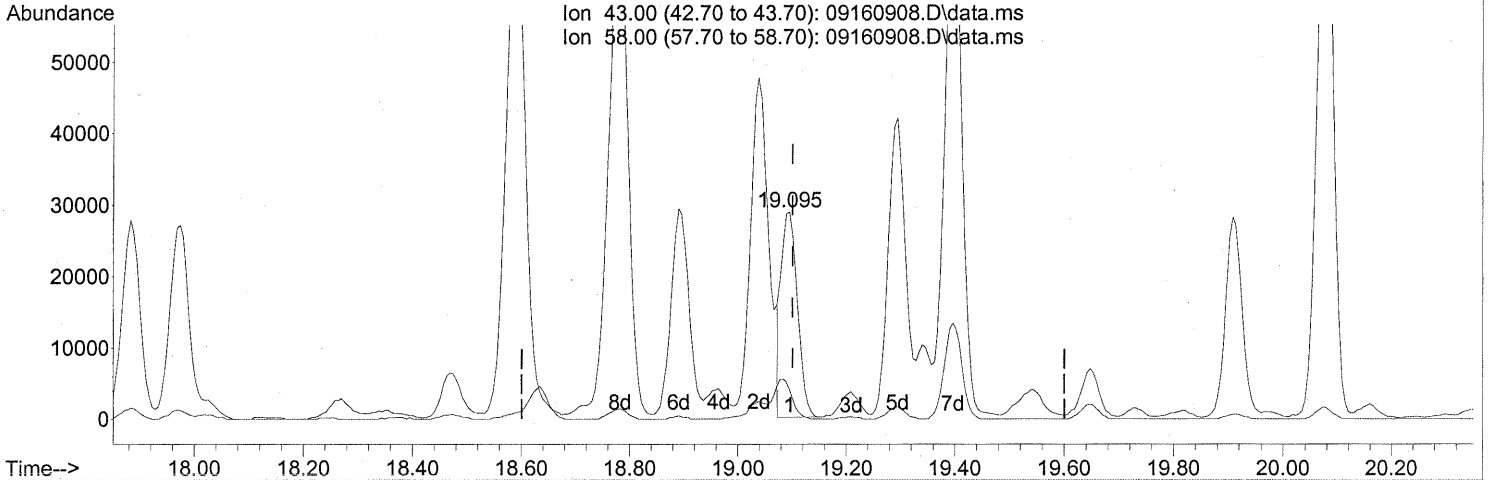
18.771min (-0.006) 77.29ng
 response 4861927

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	59.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.095min (-0.006) 1.97ng
 response 59734

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	21.30#
0.00	0.00	0.00
0.00	0.00	0.00

~~BEFORE SUBTRACTION~~

FP

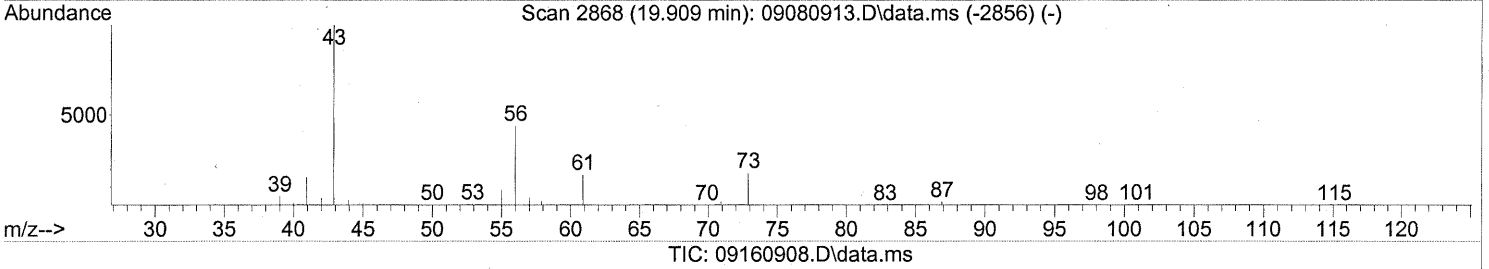
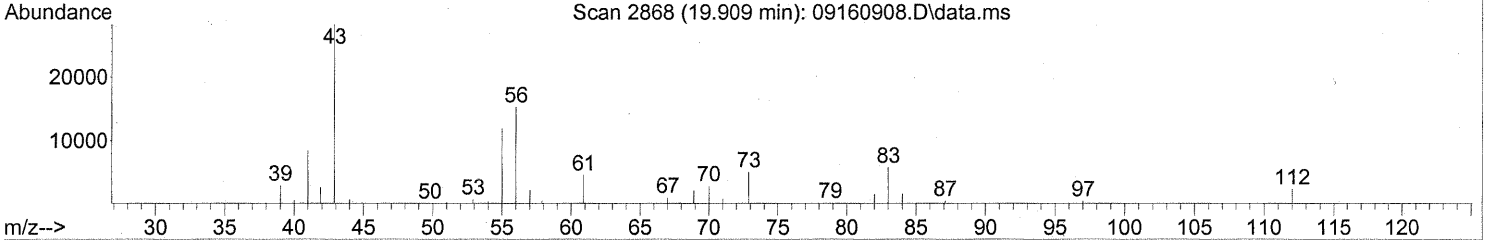
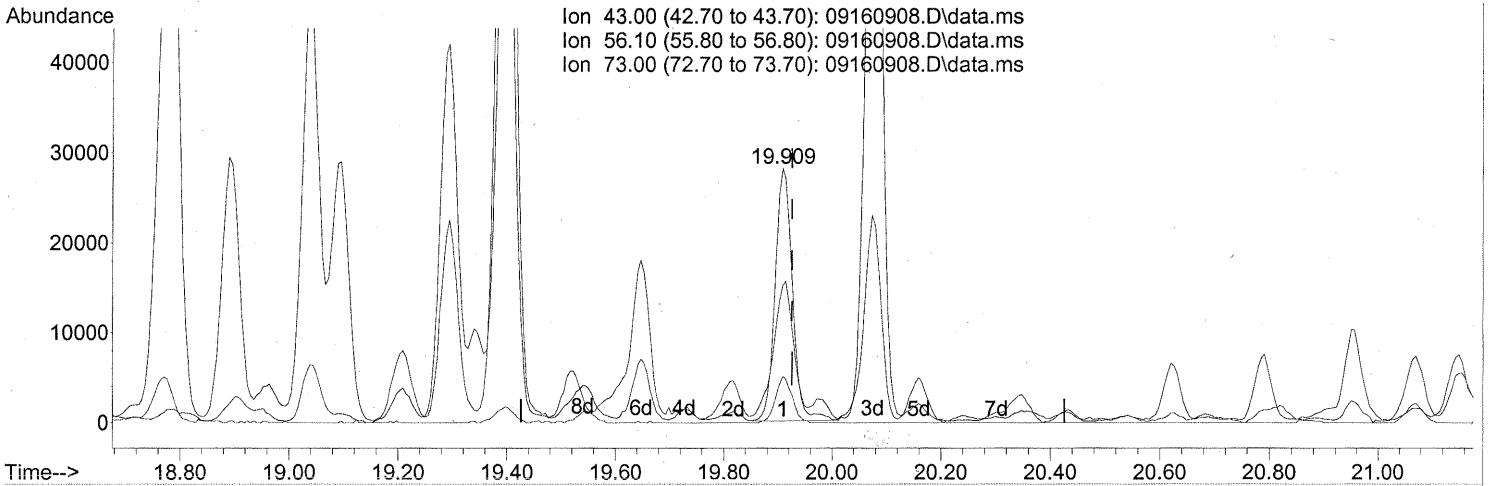
LH 9/21/09

JH 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



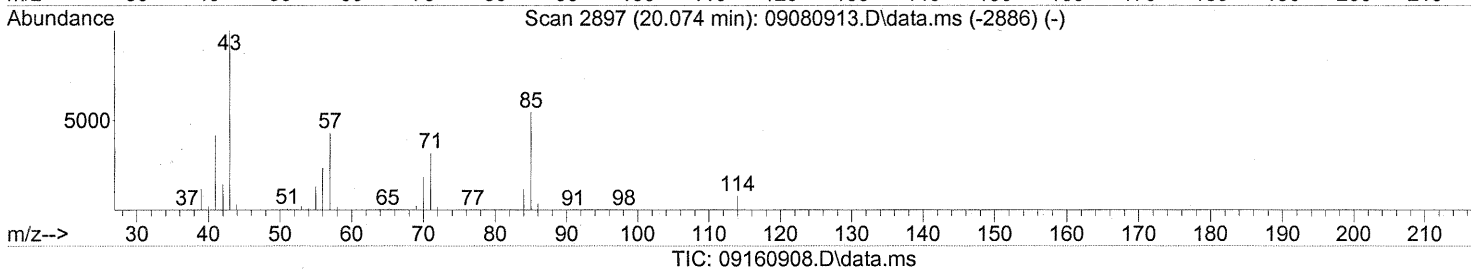
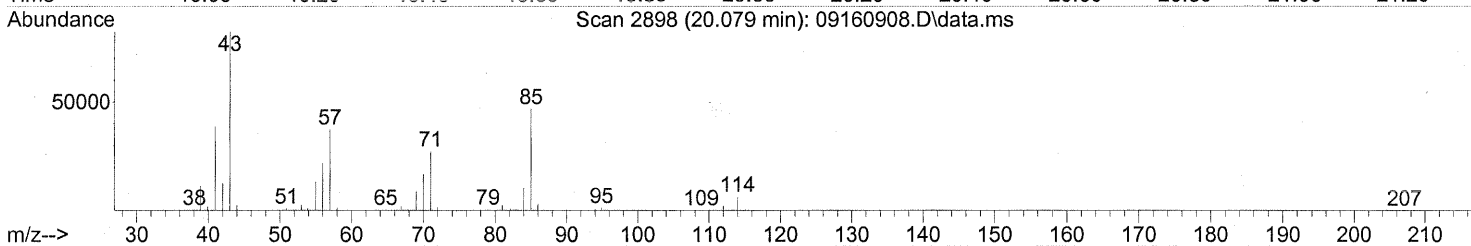
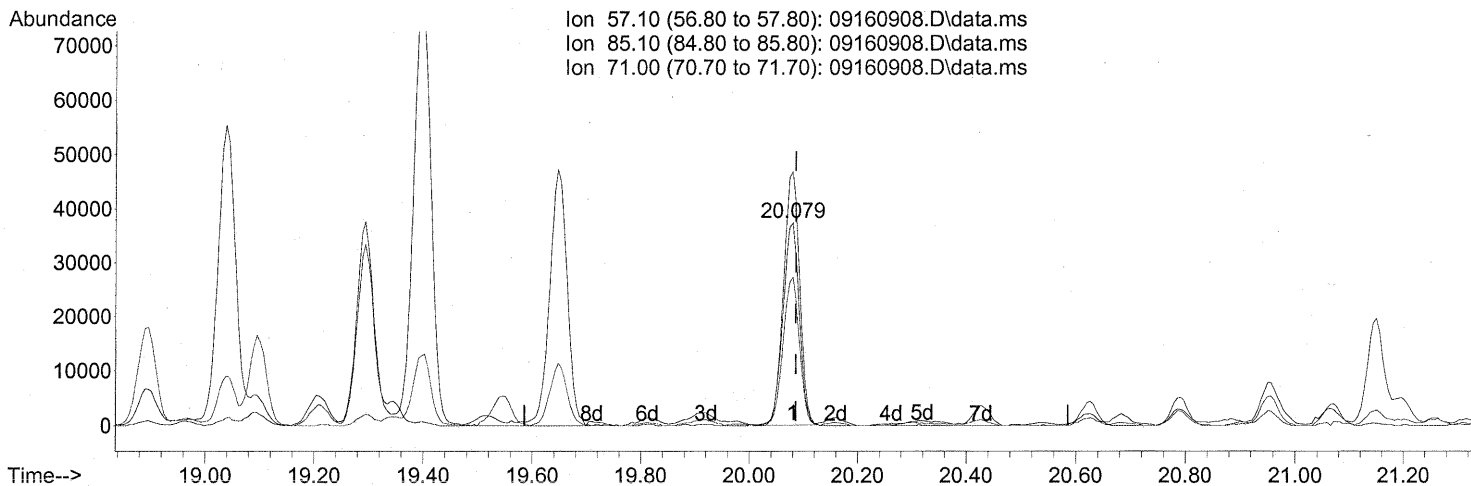
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 1.79ng
 response 61988

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	65.88#
73.00	15.40	17.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.079min (-0.006) 6.54ng

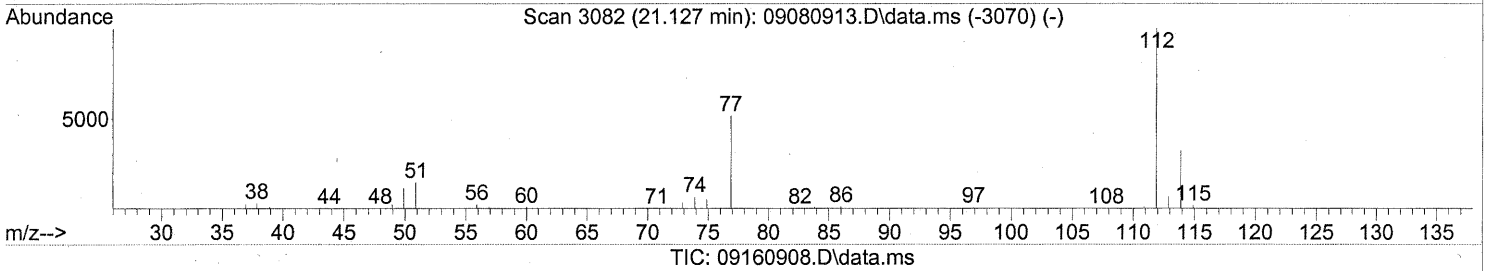
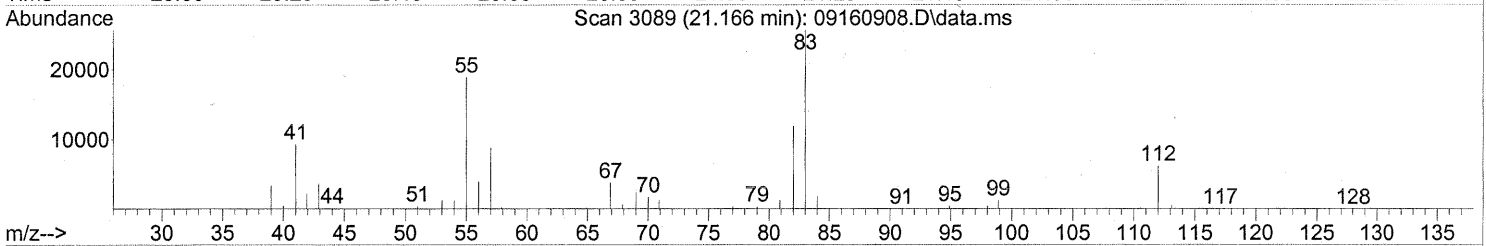
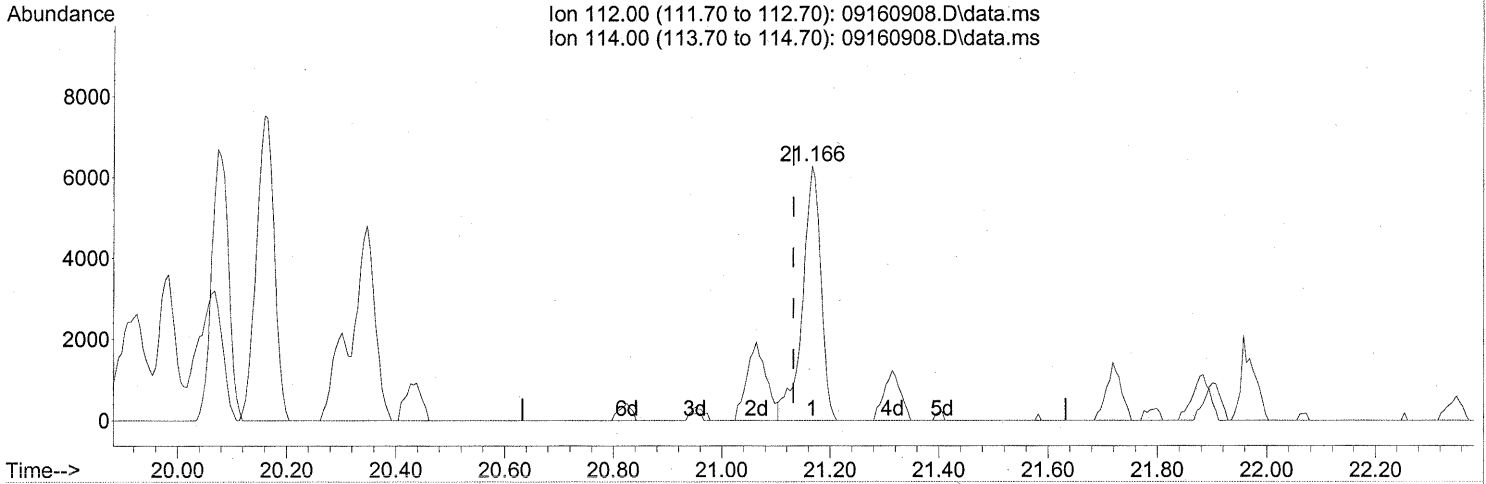
response 77177

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	125.42
71.00	69.40	73.70
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160908.D
Acq On : 16 Sep 2009 13:34
Operator : LH
Sample : P0903145-006 (450mL)
Misc : Environmental H & E 102715
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(65) Chlorobenzene (T)
21.166min (+0.034) 0.36ng
response 14856

Ion	Exp%	Act%
112.00	100	100
114.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

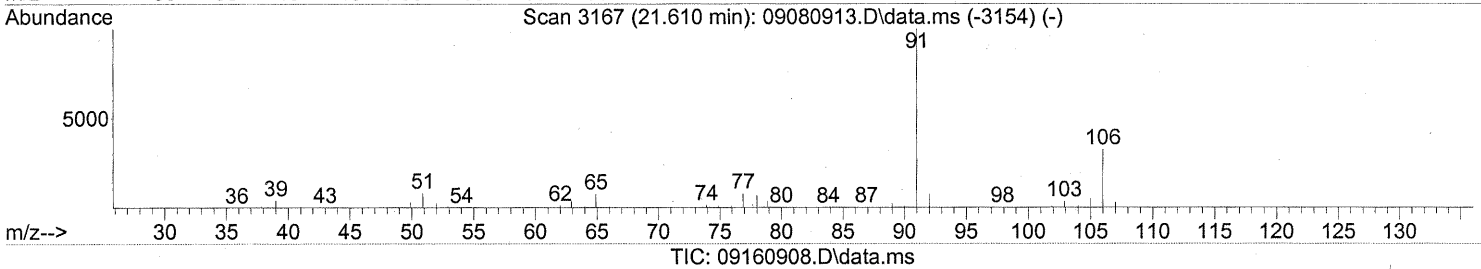
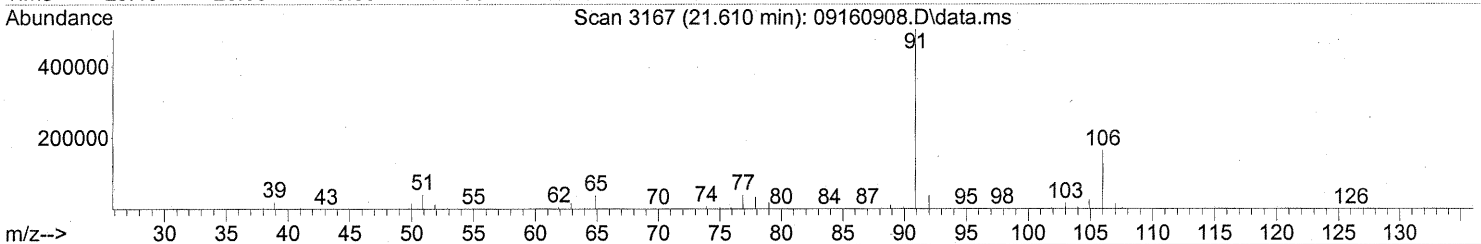
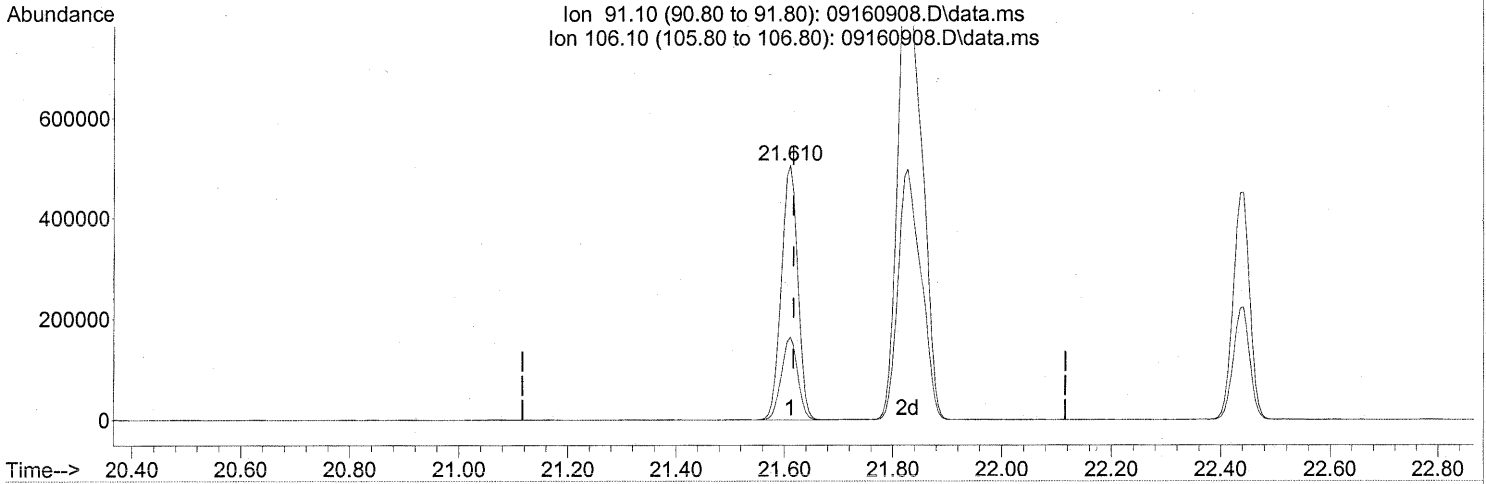
FP in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.610min (-0.006) 15.33ng

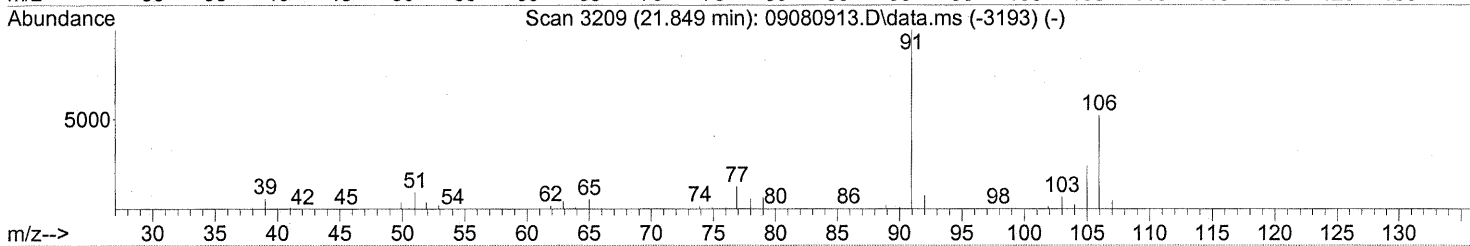
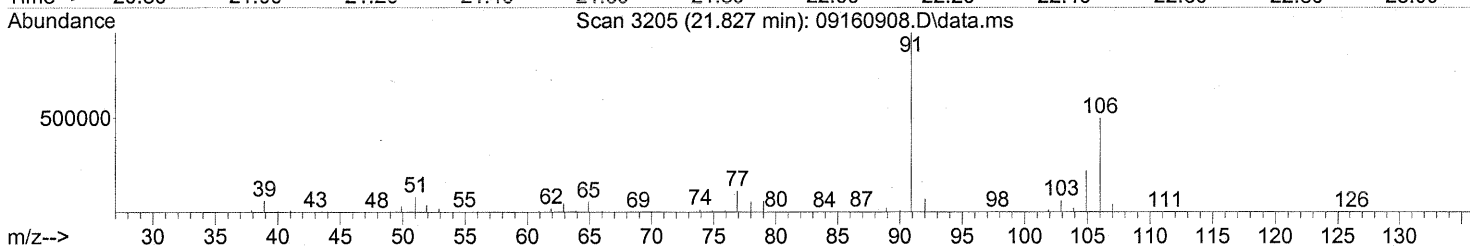
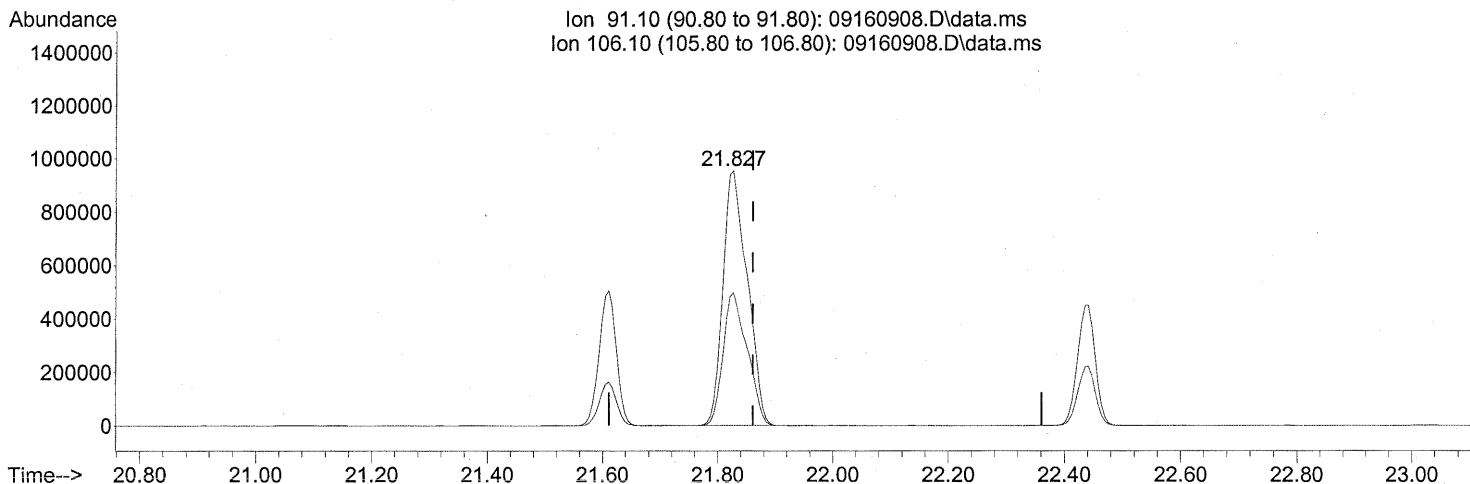
response 1058946

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160908.D\data.ms

(67) m- & p-Xylenes (T)

21.827min (-0.034) 52.13ng

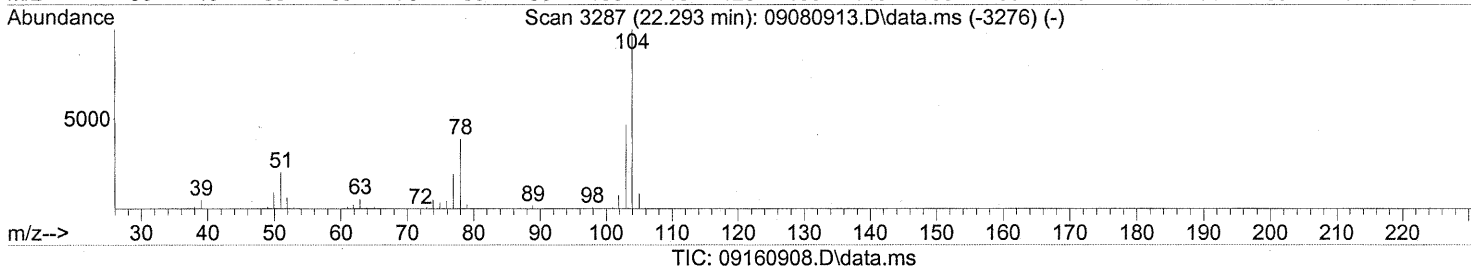
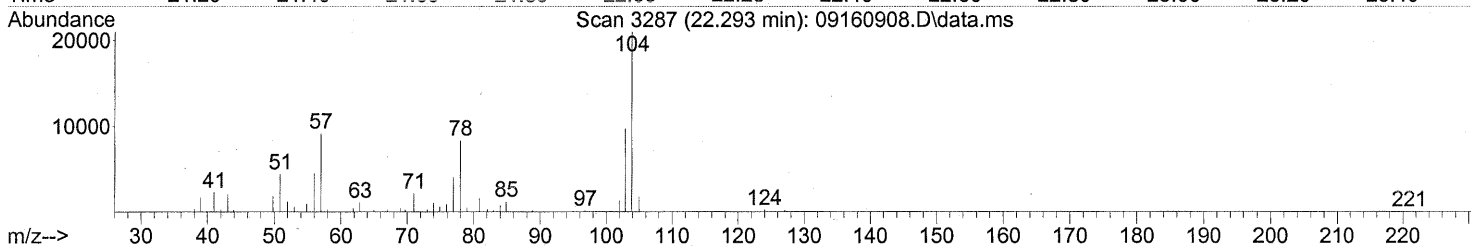
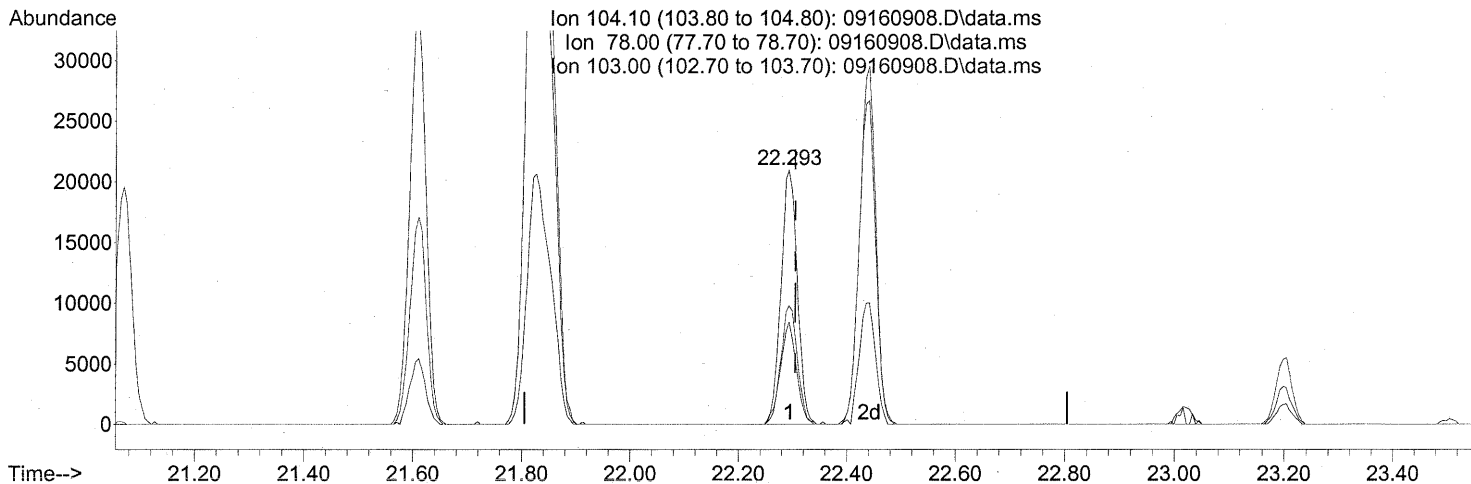
response 2814344

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



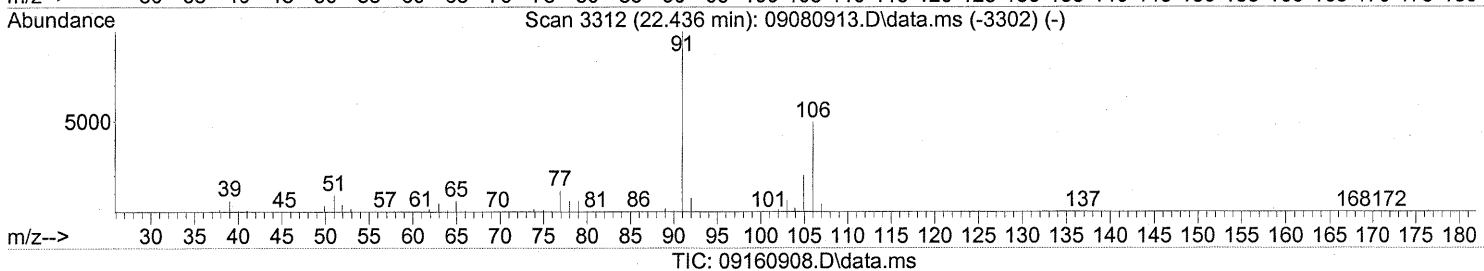
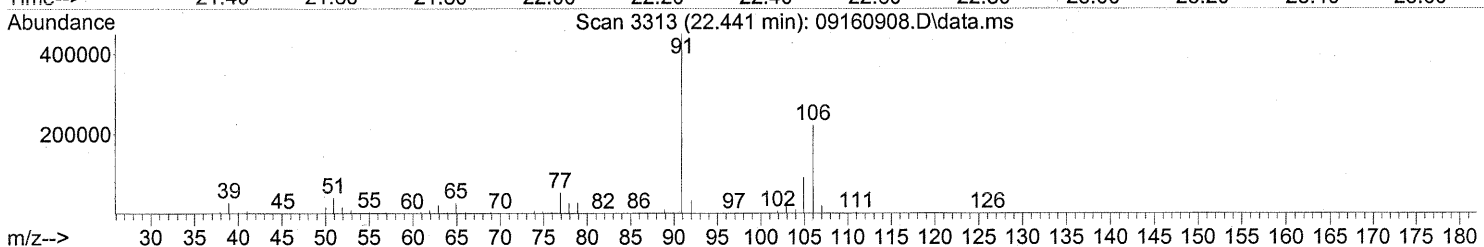
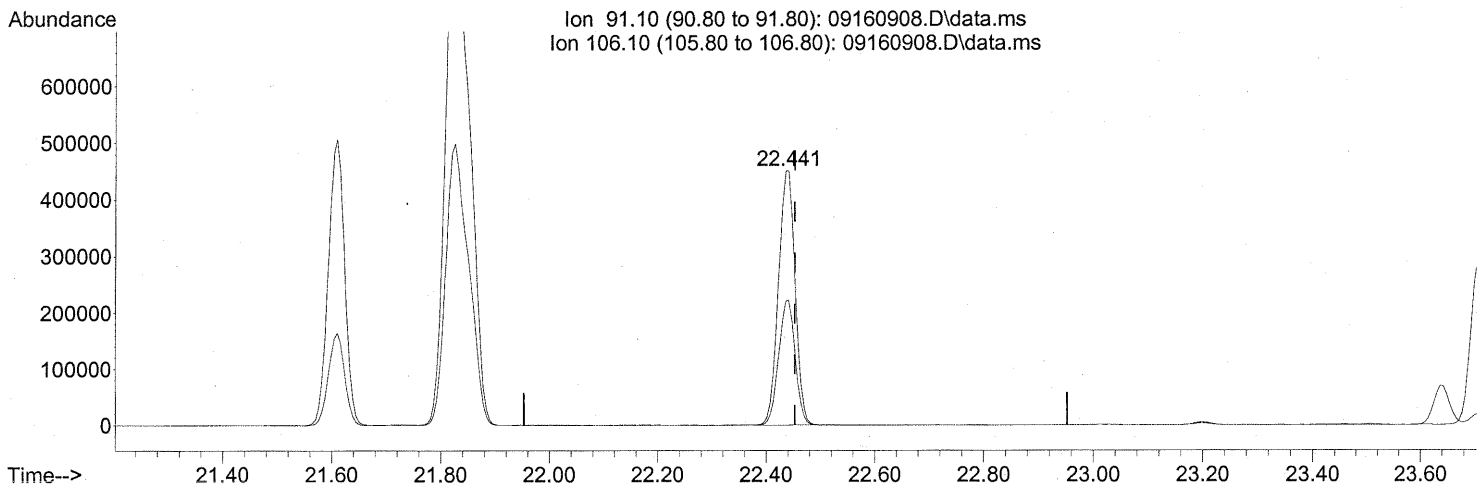
(69) Styrene (T)
 22.293min (-0.011) 0.99ng
 response 43701

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.05
103.00	47.80	47.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.441min (-0.011) 17.30ng

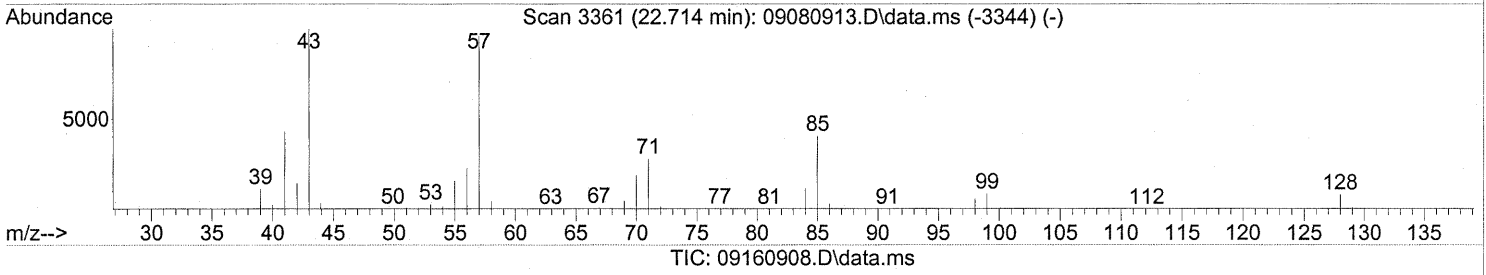
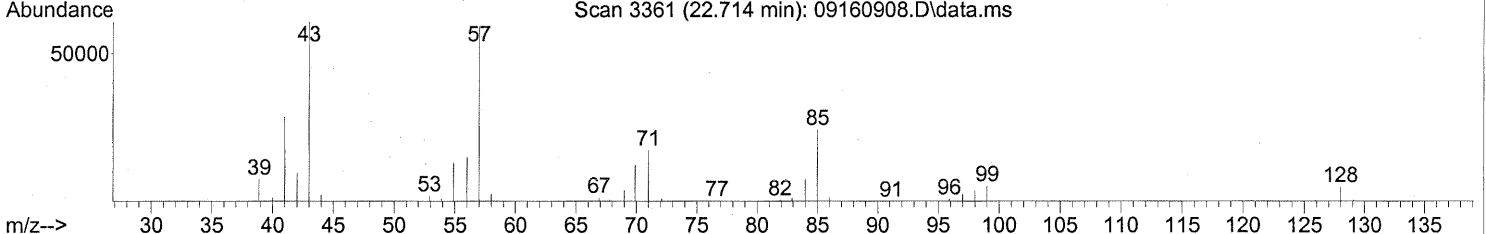
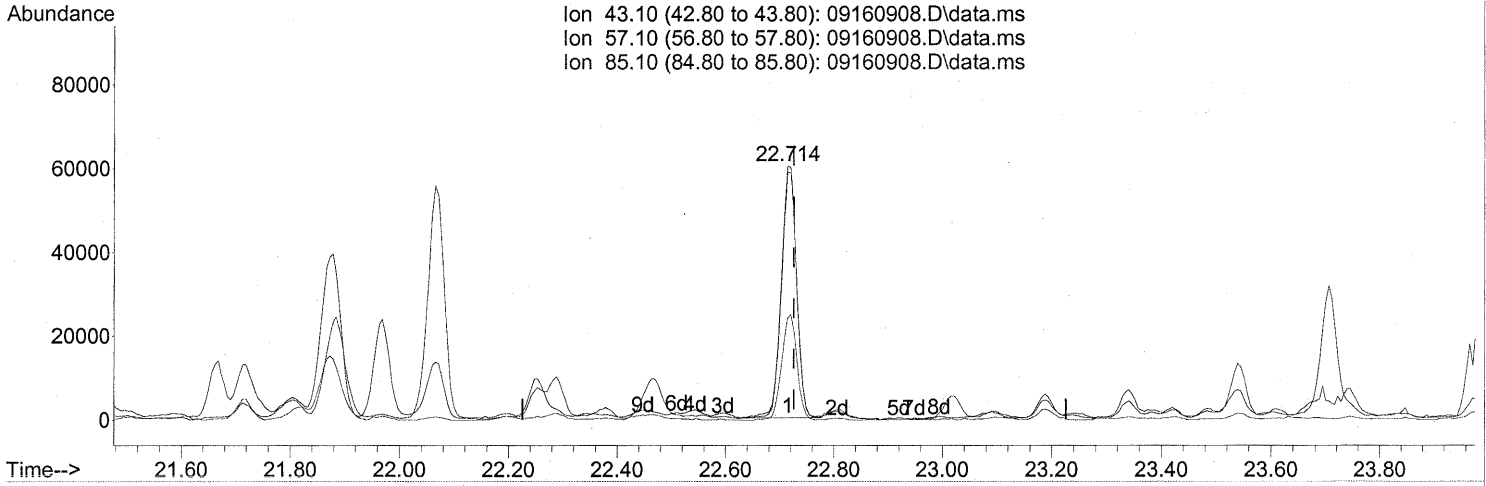
response 954485

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



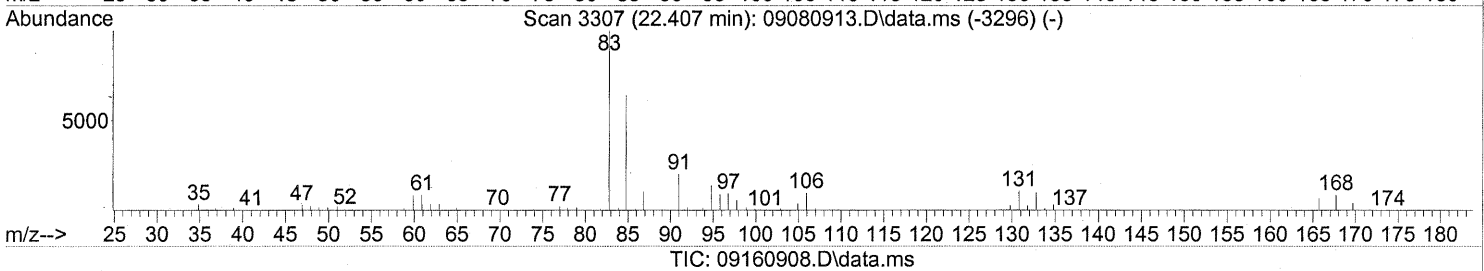
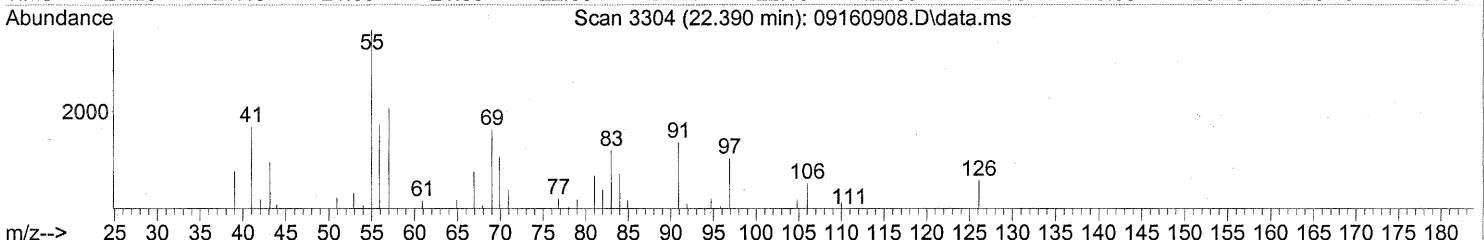
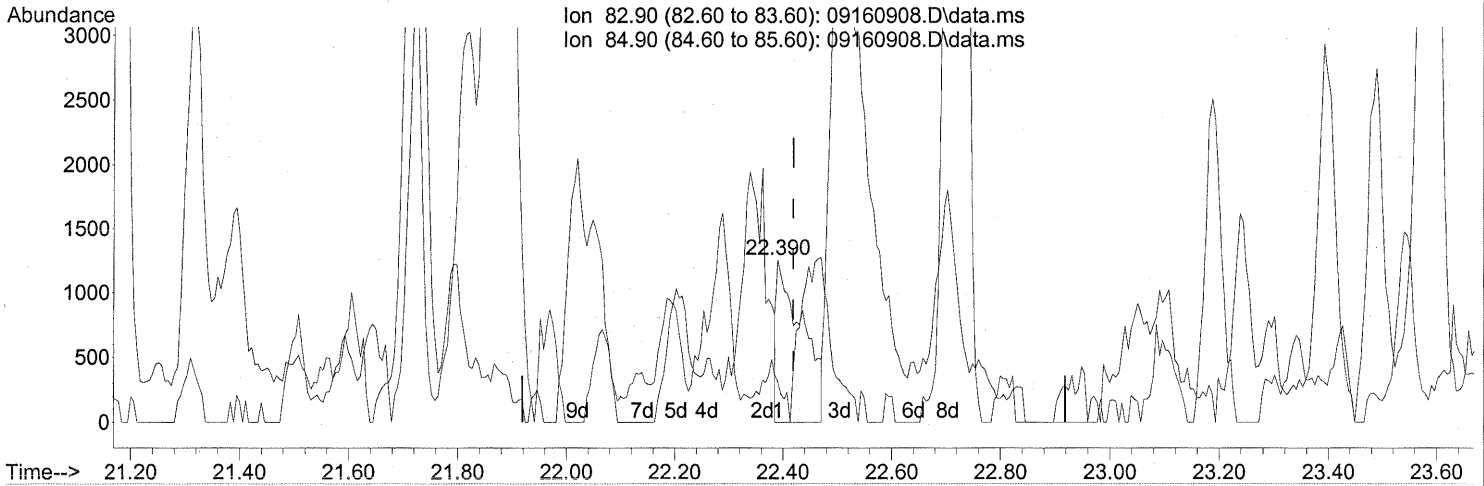
(71) n-Nonane (T)
 22.714min (-0.011) 4.42ng
 response 118438

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	97.56
85.10	33.10	41.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.390min (-0.028) 0.17ng

response 4083

Ion	Exp%	Act%
82.90	100	100
84.90	63.40	27.21#
0.00	0.00	0.00
0.00	0.00	0.00

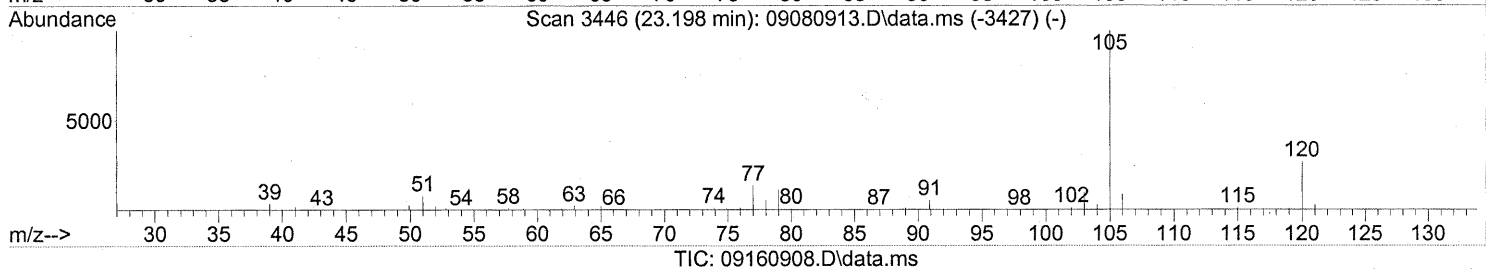
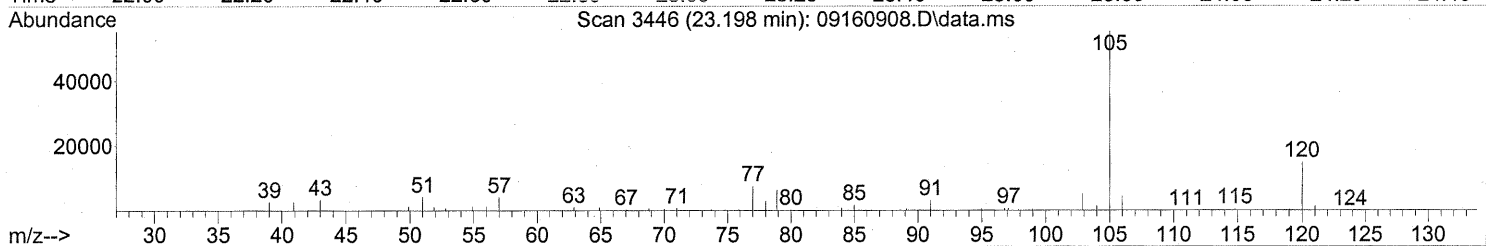
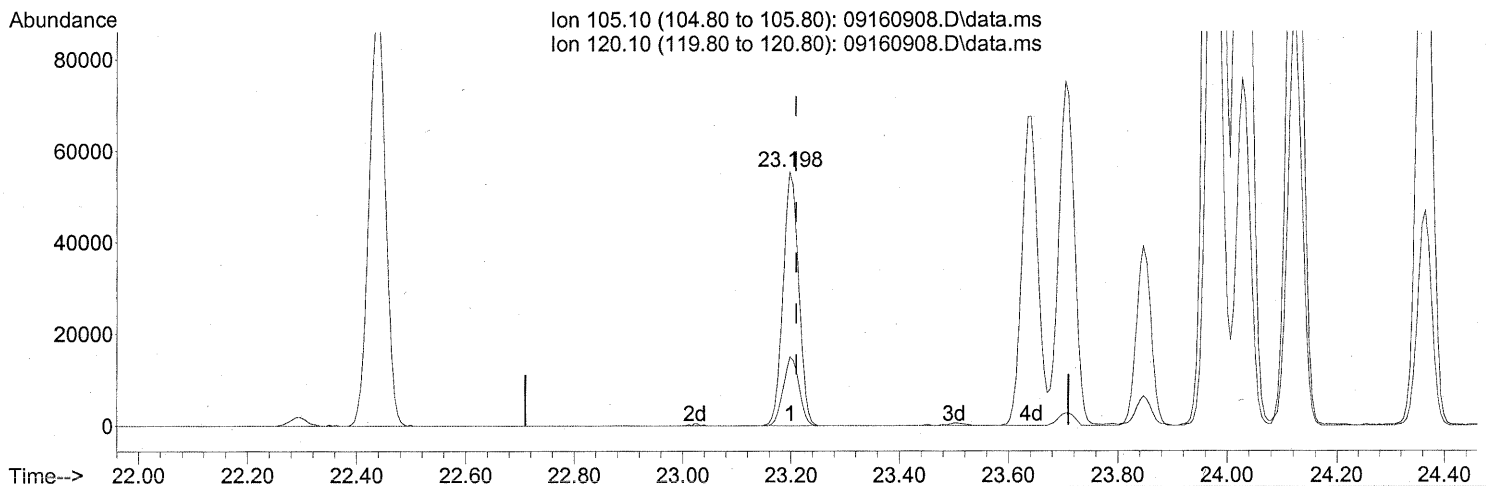
FP LH 9/18/09

9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



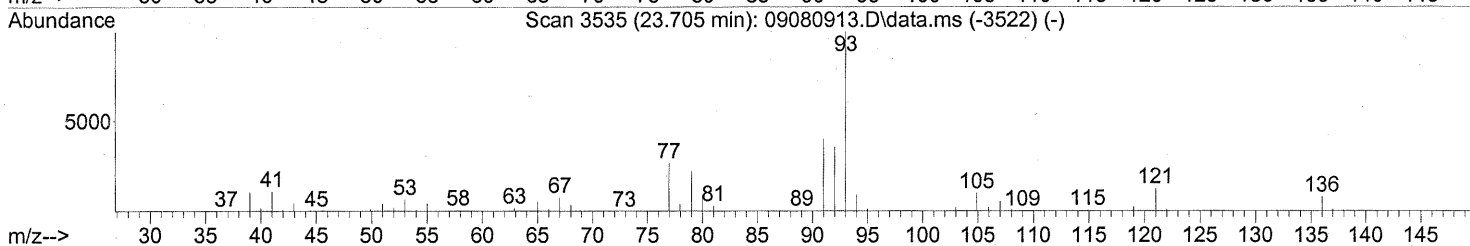
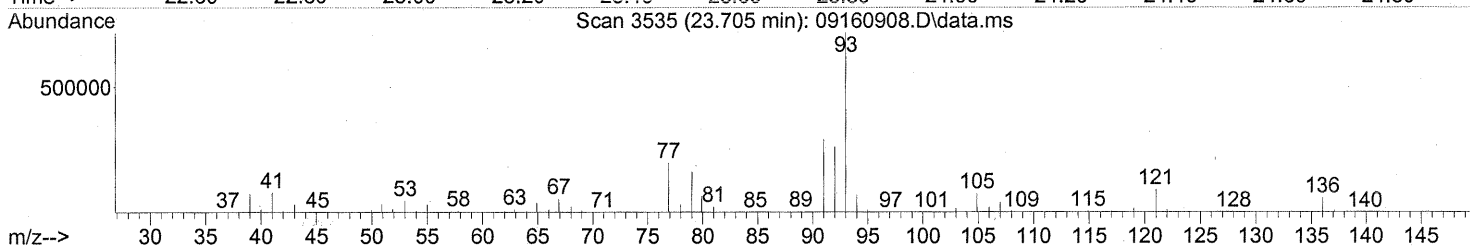
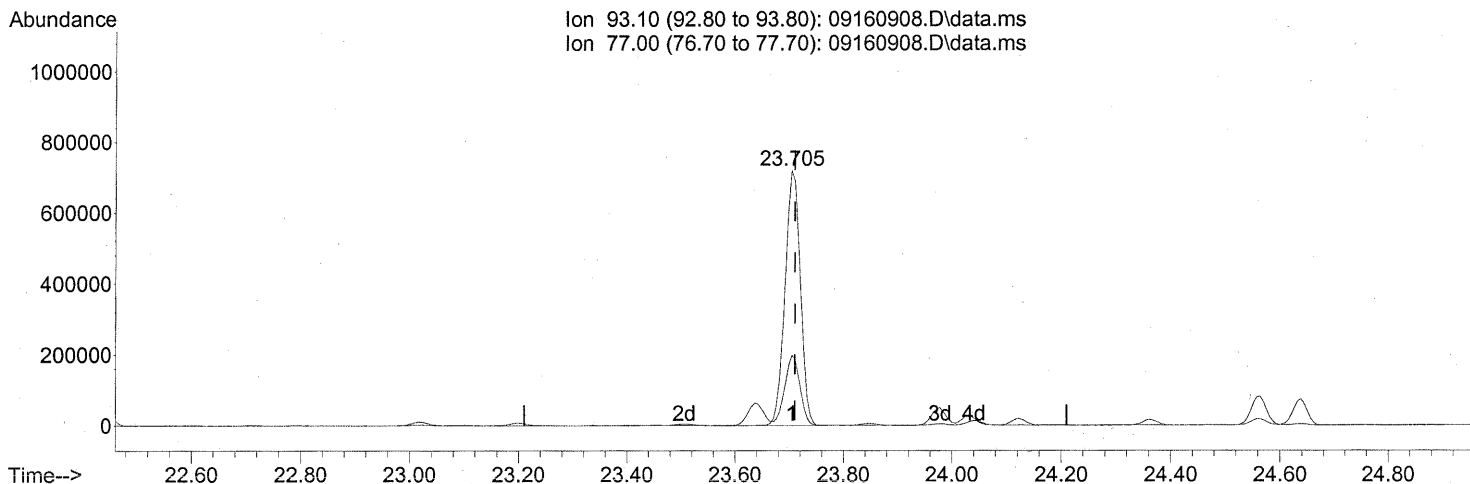
(74) Cumene (T)
 23.198min (-0.011) 1.46ng
 response 110348

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160908.D\data.ms

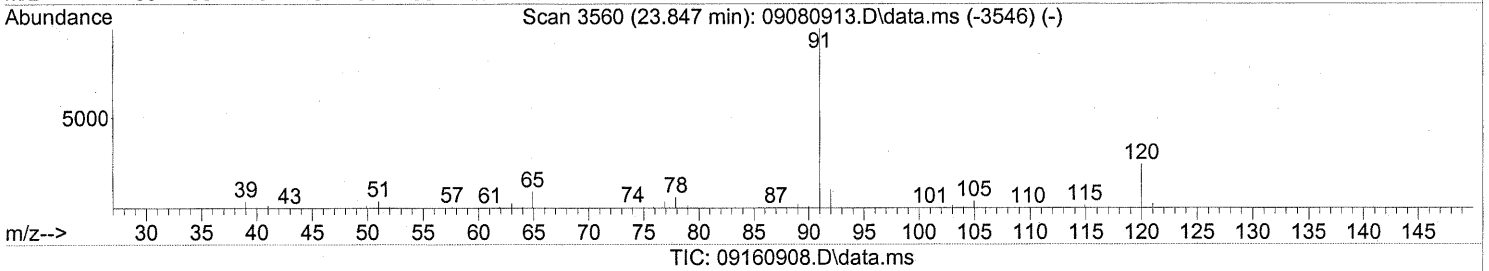
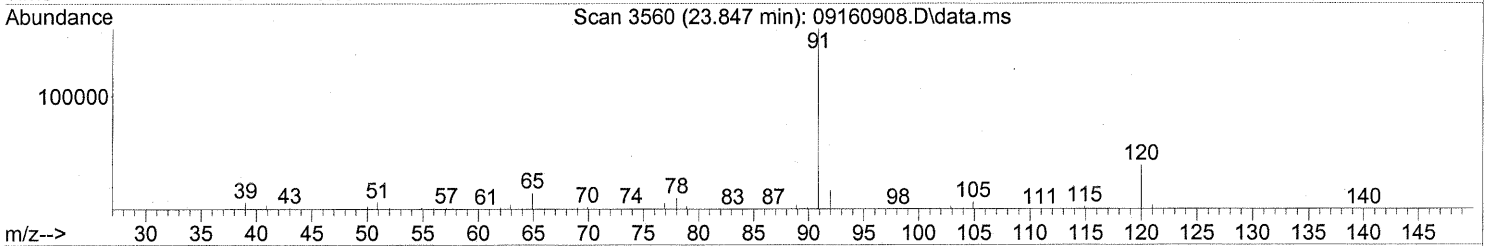
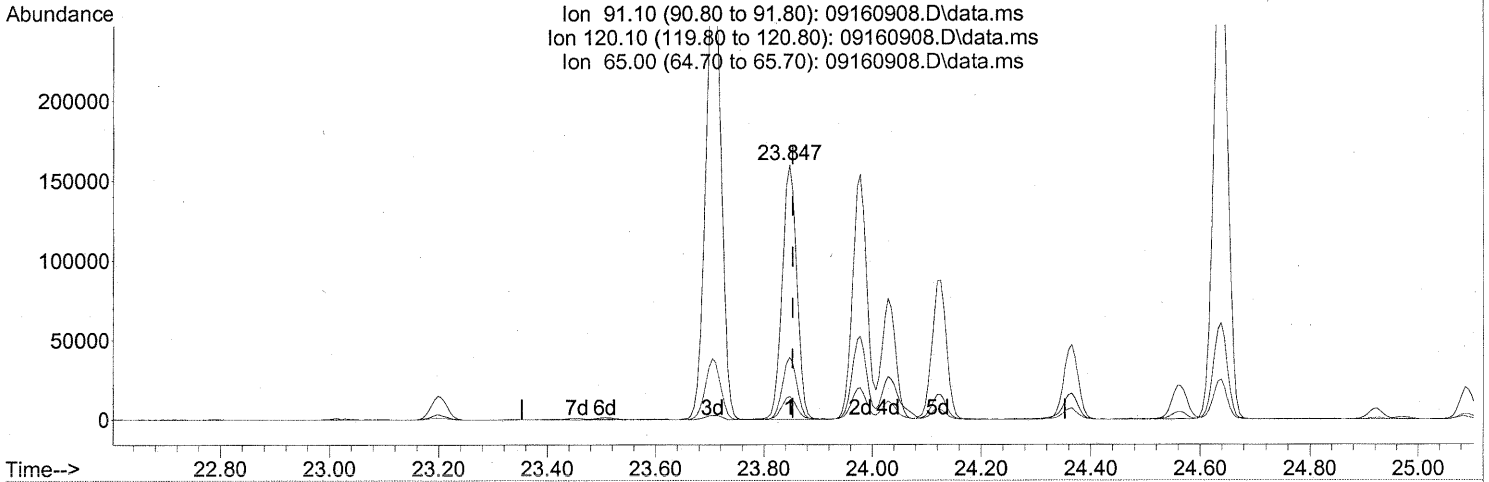
(75) alpha-Pinene (T)
 23.705min (-0.006) 39.83ng
 response 1413197

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 3.40ng

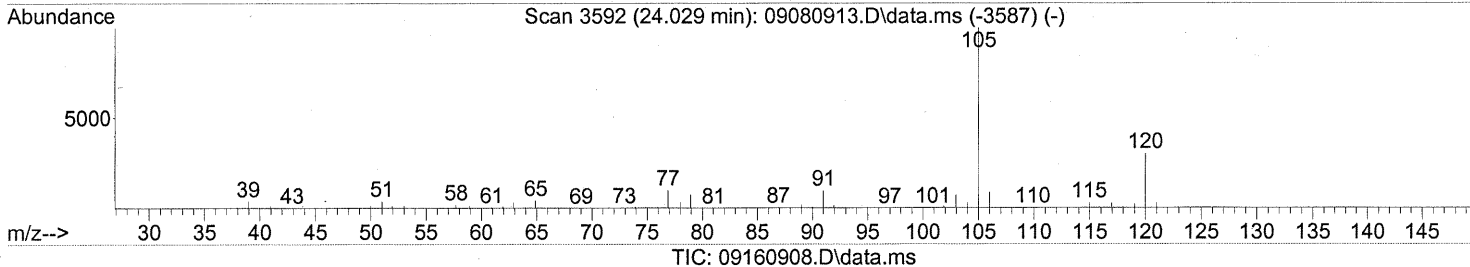
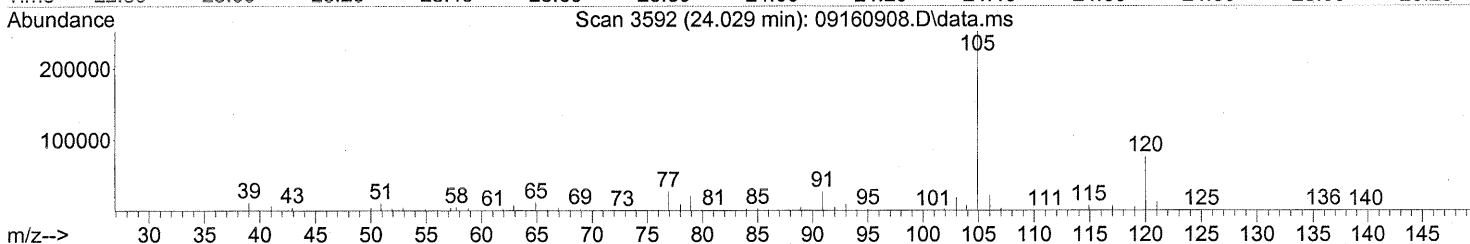
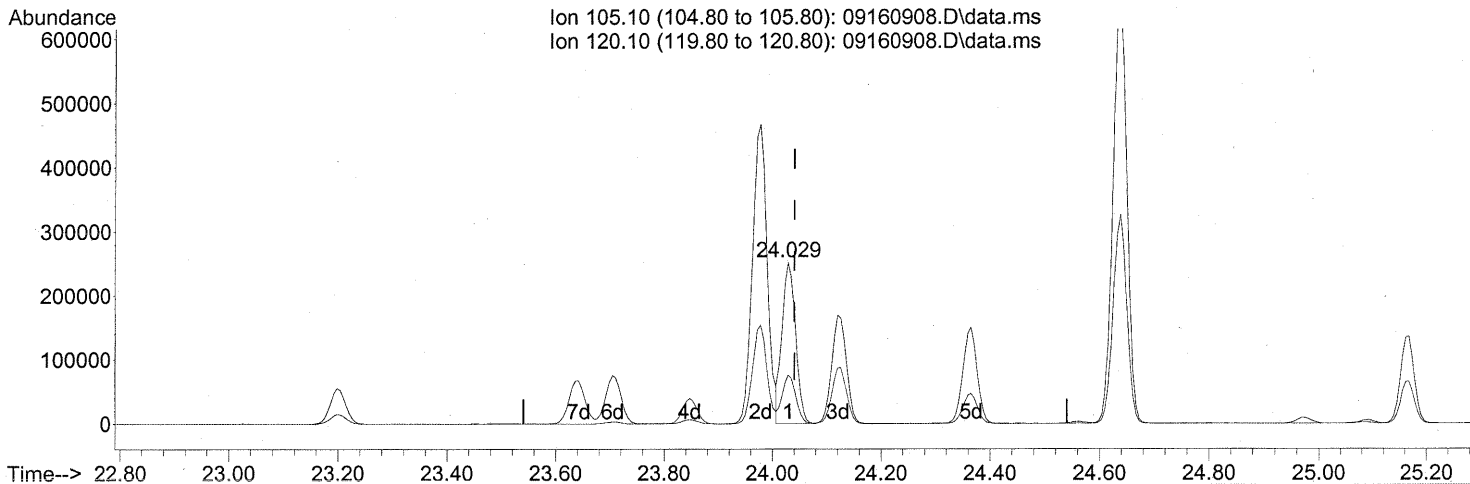
response 300274

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	24.34
65.00	10.30	9.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



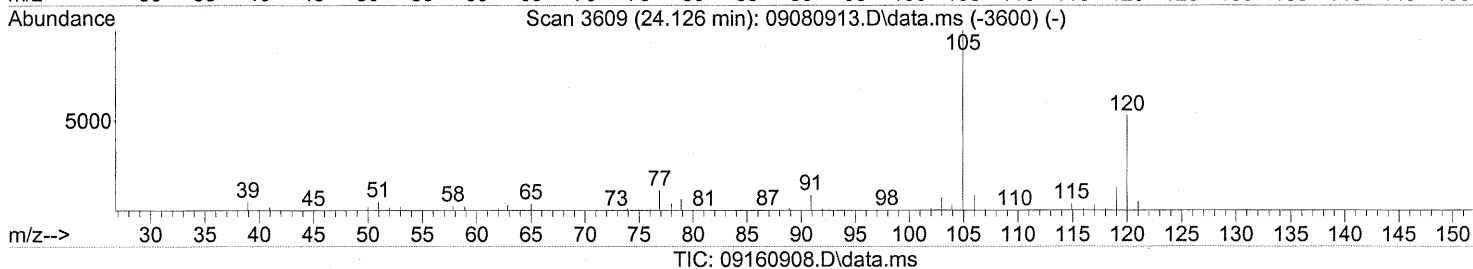
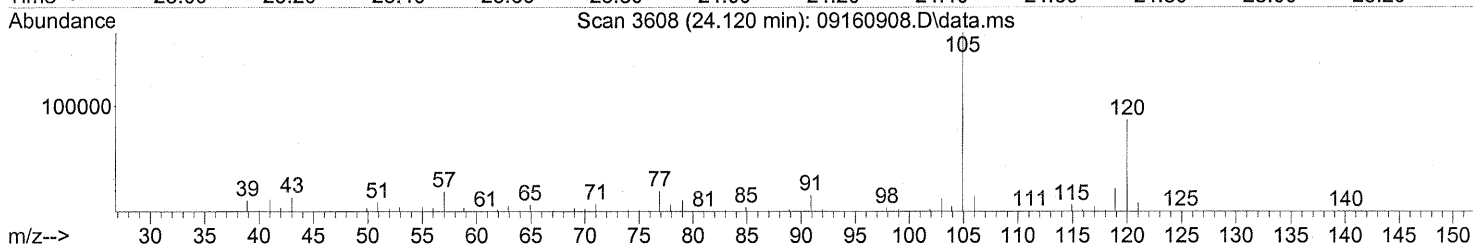
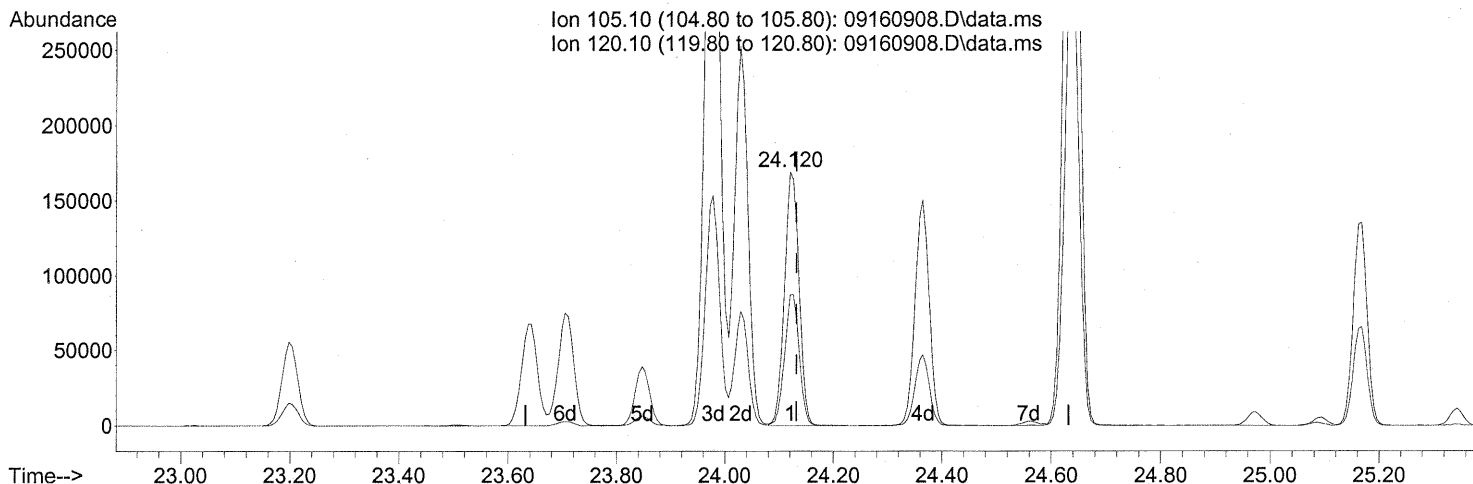
(78) 4-Ethyltoluene (T)
 24.029min (-0.011) 6.20ng
 response 436747

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 5.35ng

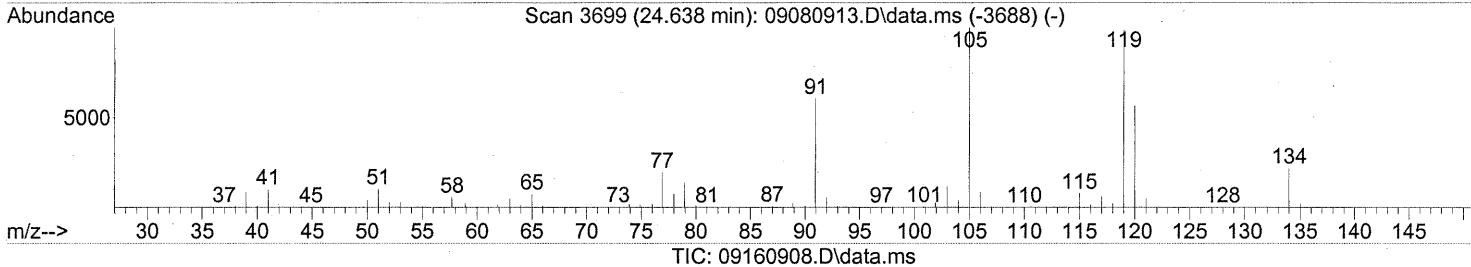
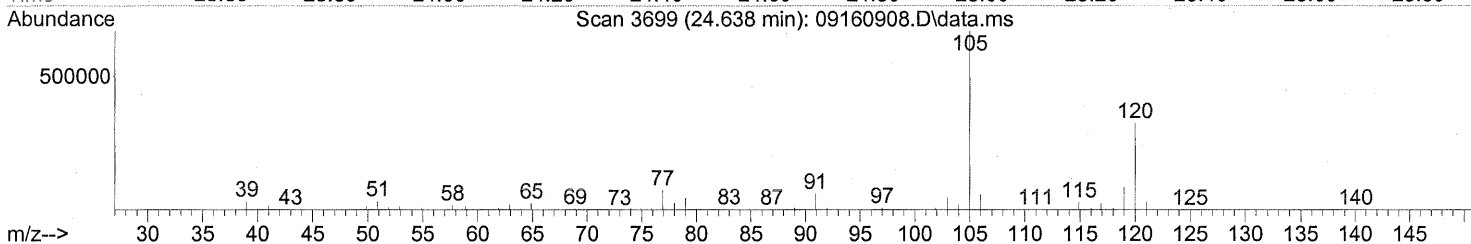
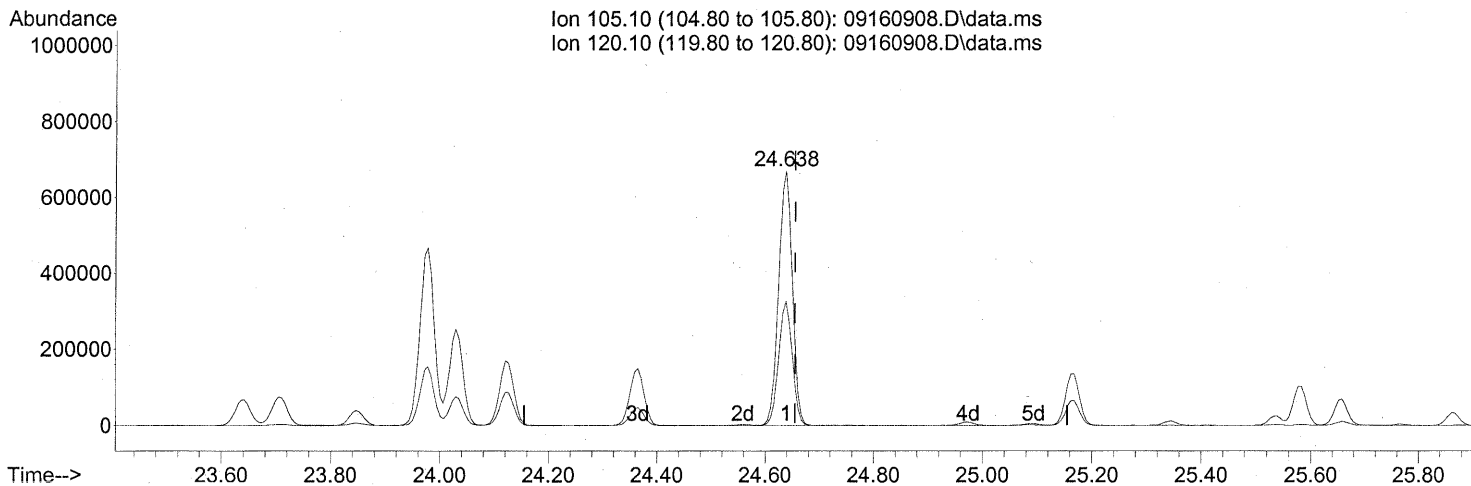
response 313590

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	51.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 19.00ng

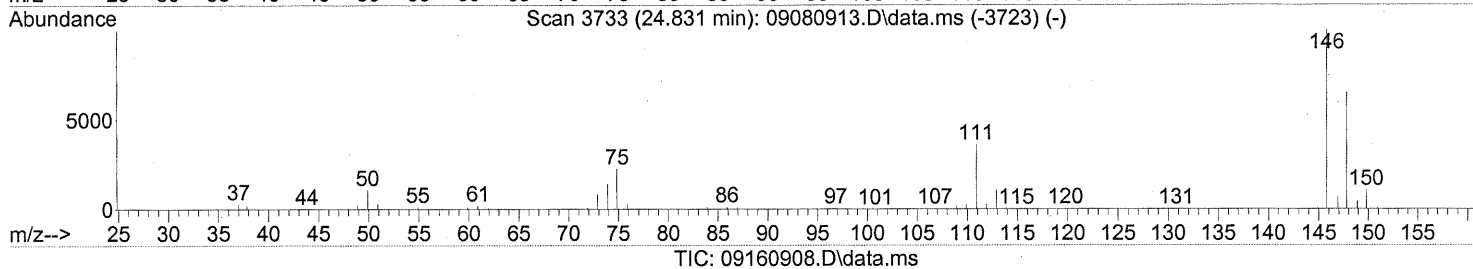
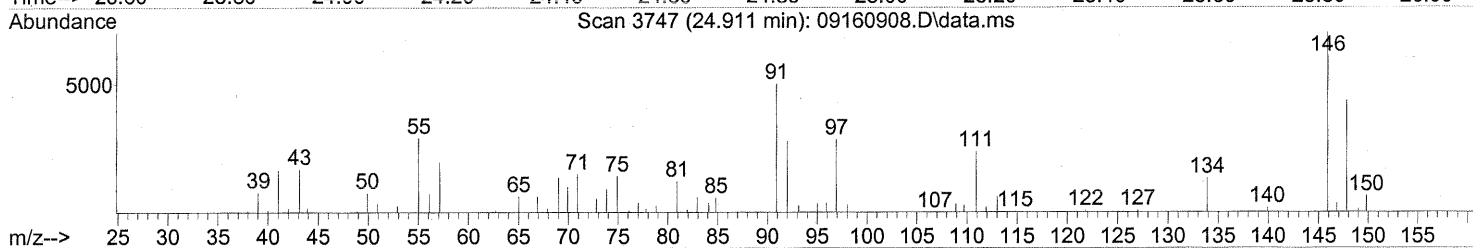
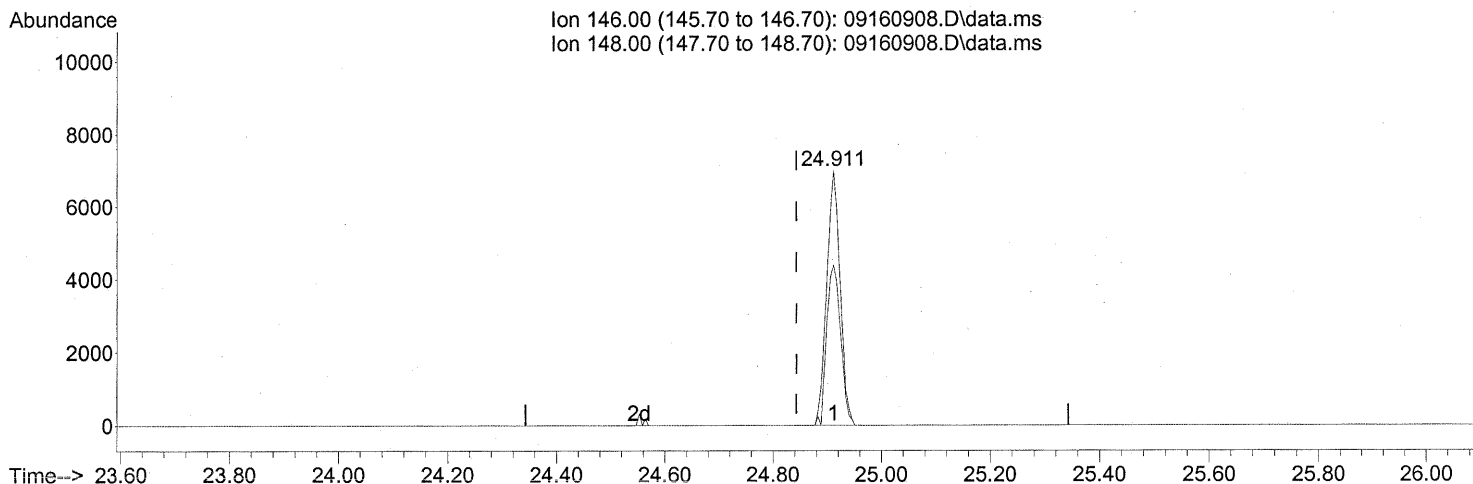
response 1188192

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160908.D
Acq On : 16 Sep 2009 13:34
Operator : LH
Sample : P0903145-006 (450mL)
Misc : Environmental H & E 102715
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

24.911min (+0.068) 0.33ng

response 12023

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	65.02
0.00	0.00	0.00
0.00	0.00	0.00

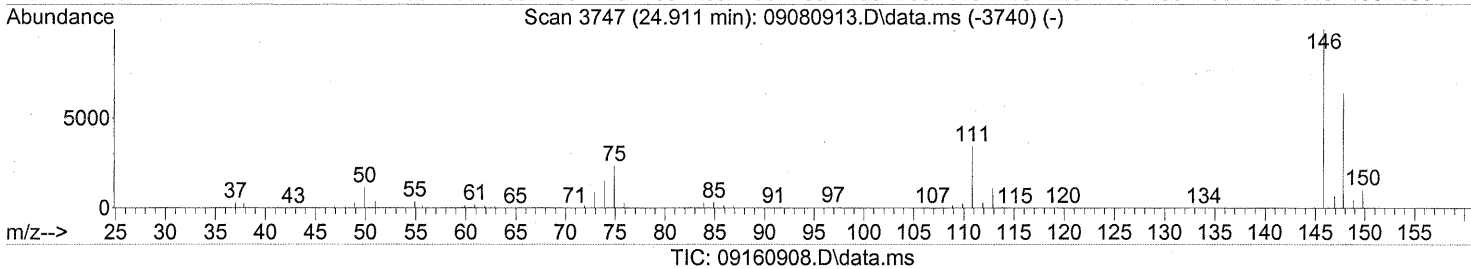
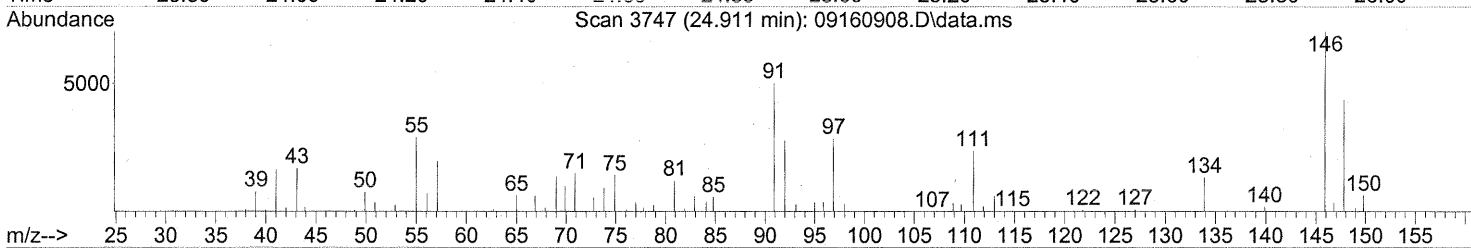
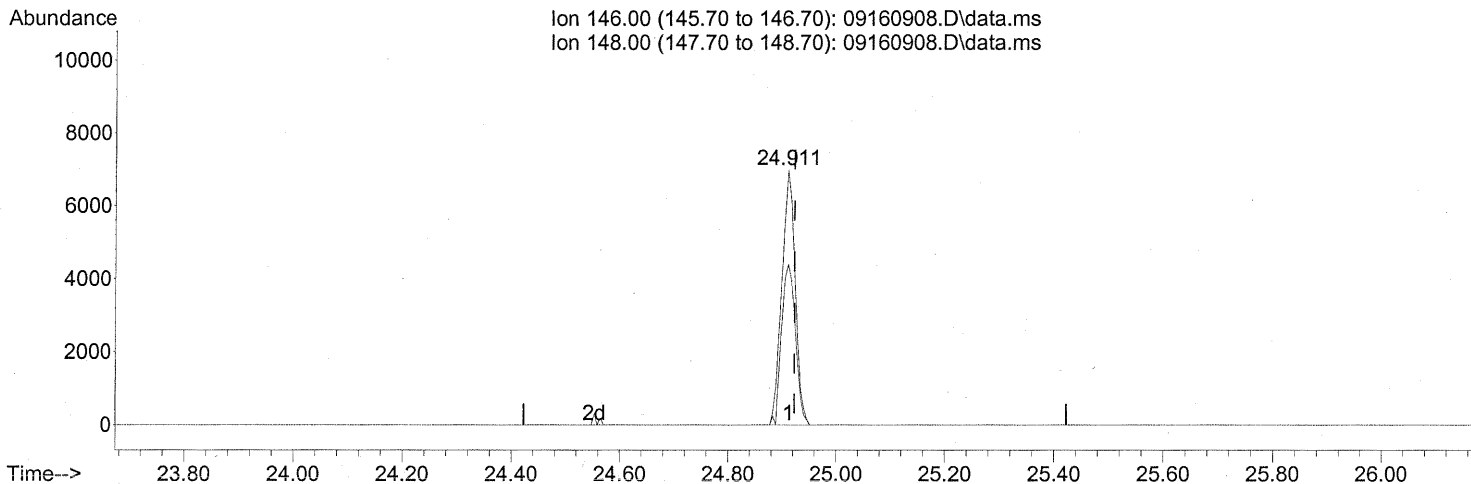
FP W 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.32ng

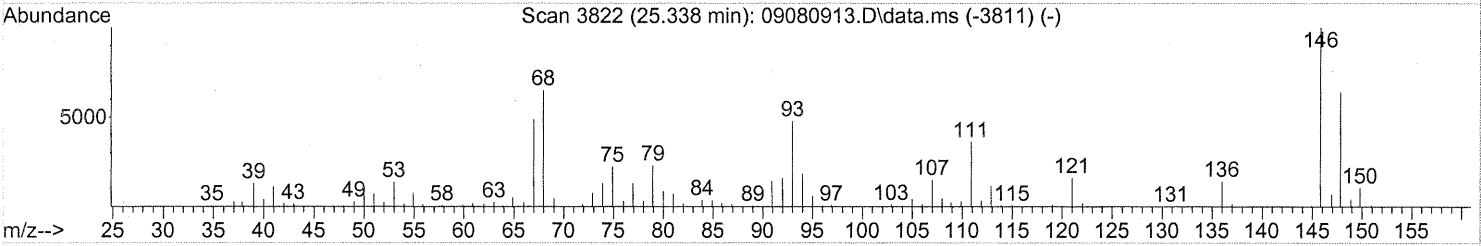
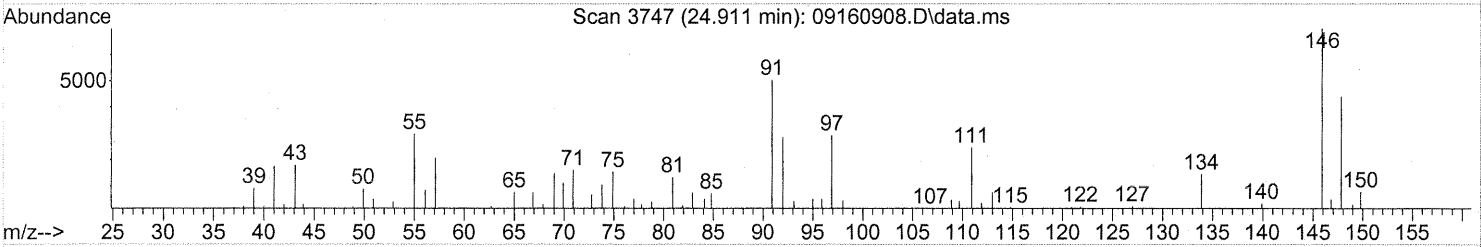
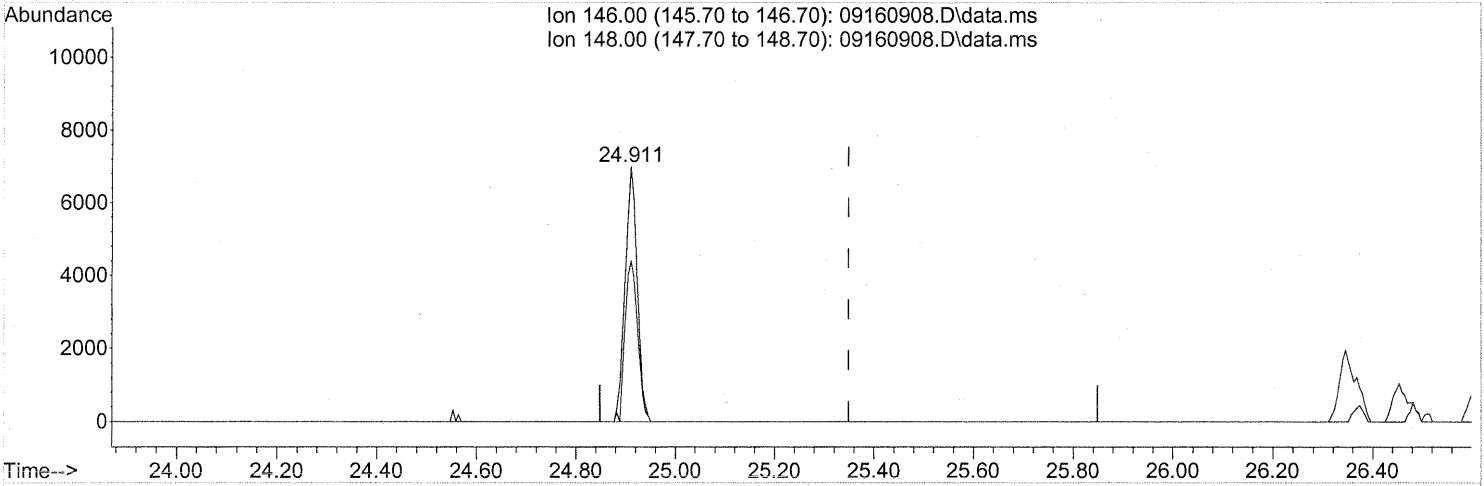
response 12023

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	65.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 21 09:02:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

24.911min (-0.438) 0.34ng

response 12023

Ion	Exp%	Act%
146.00	100	100
148.00	63.60	65.02
0.00	0.00	0.00
0.00	0.00	0.00

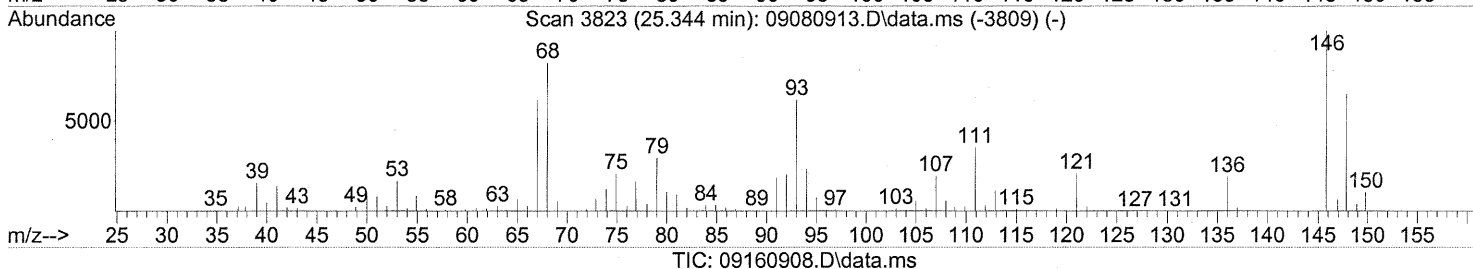
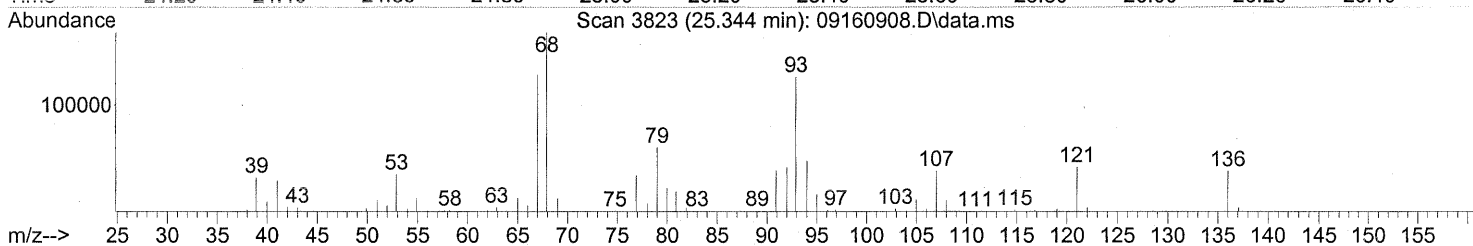
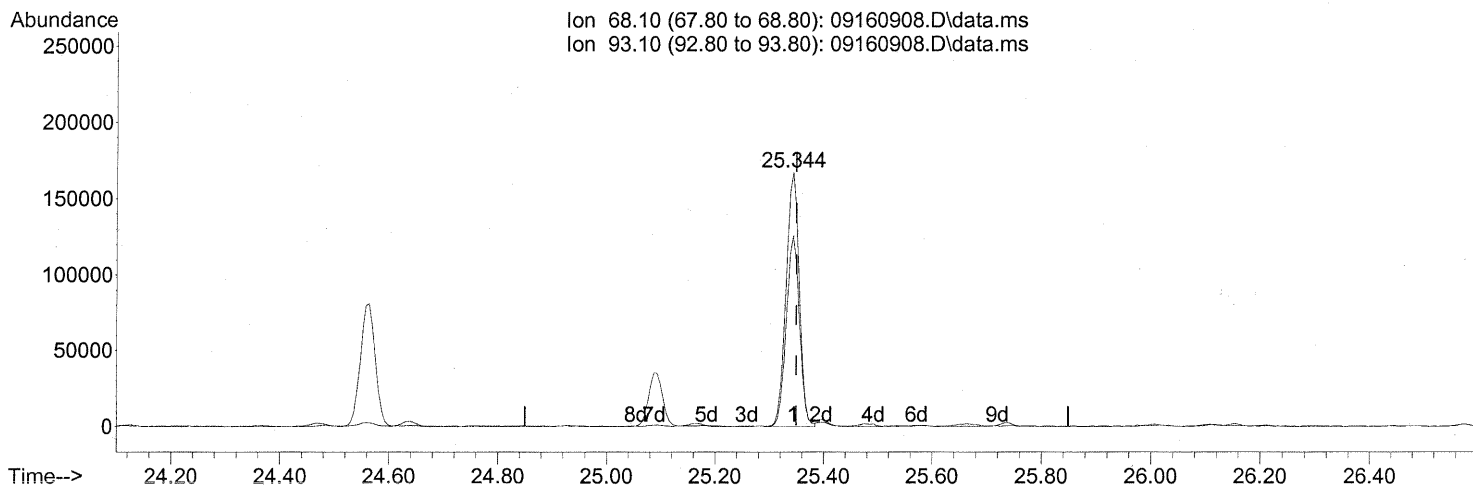
FP W 9/21/09

IDA 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160908.D
 Acq On : 16 Sep 2009 13:34
 Operator : LH
 Sample : P0903145-006 (450mL)
 Misc : Environmental H & E 102715
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



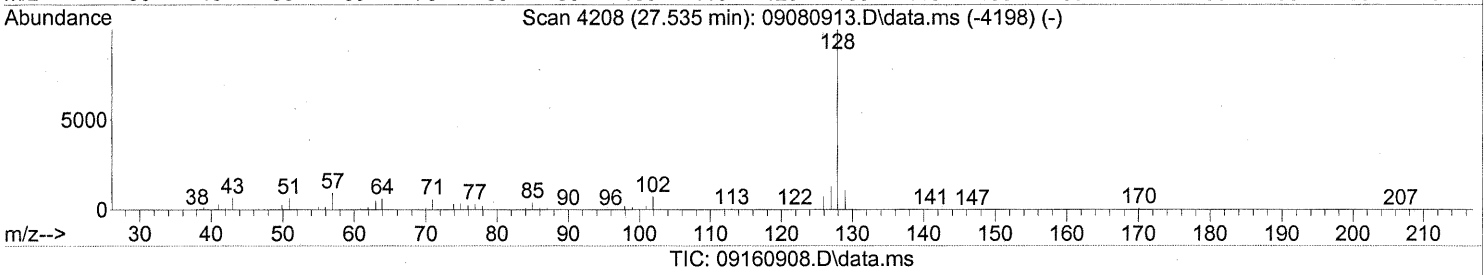
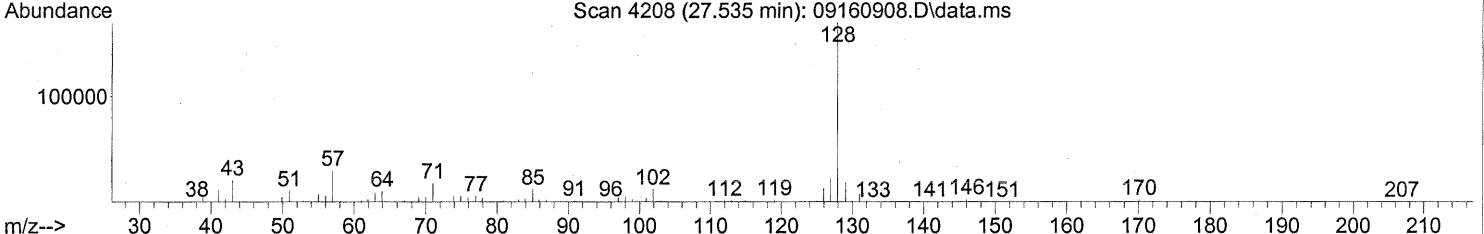
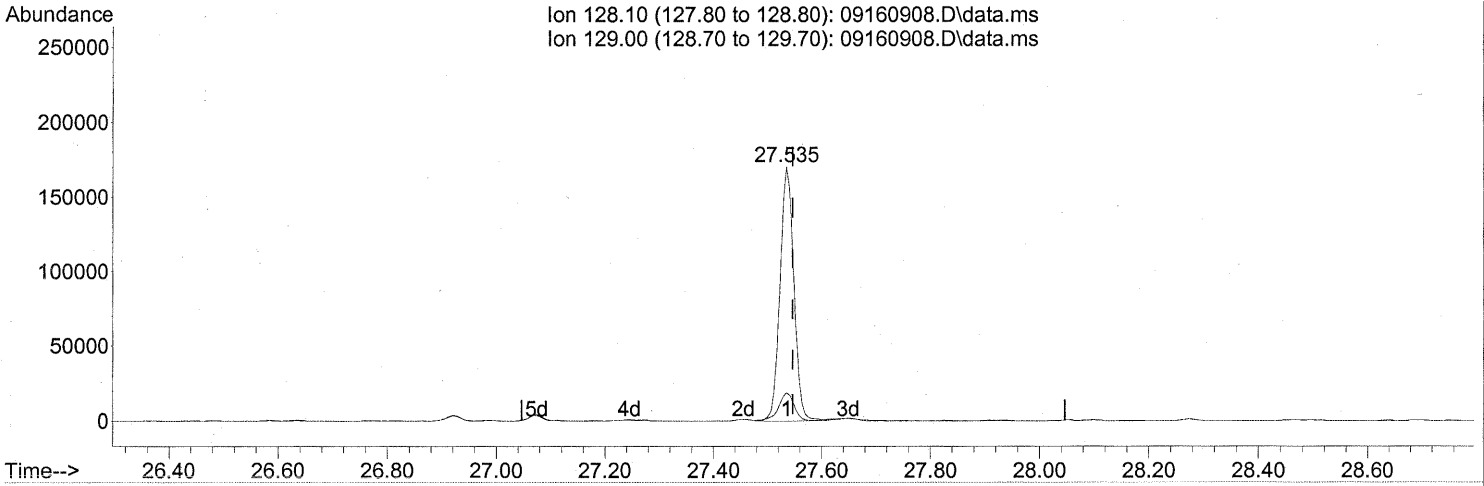
(91) d-Limonene (T)
 25.344min (-0.006) 12.65ng
 response 284165

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	74.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160908.D
Acq On : 16 Sep 2009 13:34
Operator : LH
Sample : P0903145-006 (450mL)
Misc : Environmental H & E 102715
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 17 11:38:35 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(95) Naphthalene (T)
27.535min (-0.011) 3.31ng
response 300416

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.53
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102716
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00909

CAS Project ID: P0903145
 CAS Sample ID: P0903145-007

Date Collected: 9/1/09
 Date Received: 9/4/09
 Date Analyzed: 9/16/09
 Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.25	ND	0.064	
141-78-6	Ethyl Acetate	19	1.3	5.2	0.35	
110-54-3	n-Hexane	110	1.3	31	0.36	
67-66-3	Chloroform	2.8	0.25	0.57	0.052	
109-99-9	Tetrahydrofuran (THF)	2.0	1.3	0.68	0.43	
107-06-2	1,2-Dichloroethane	5.8	0.25	1.4	0.062	
71-55-6	1,1,1-Trichloroethane	ND	0.25	ND	0.046	
71-43-2	Benzene	49	0.25	15	0.079	
56-23-5	Carbon Tetrachloride	0.58	0.25	0.093	0.040	
110-82-7	Cyclohexane	14	1.3	4.0	0.37	
78-87-5	1,2-Dichloropropane	ND	0.25	ND	0.055	
75-27-4	Bromodichloromethane	ND	0.25	ND	0.038	
79-01-6	Trichloroethene	1.1	0.25	0.20	0.047	
123-91-1	1,4-Dioxane	ND	1.3	ND	0.35	
80-62-6	Methyl Methacrylate	ND	1.3	ND	0.31	
142-82-5	n-Heptane	40	1.3	9.8	0.31	
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	ND	0.28	
108-10-1	4-Methyl-2-pentanone	1.5	1.3	0.37	0.31	
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	ND	0.28	
79-00-5	1,1,2-Trichloroethane	ND	0.25	ND	0.046	
108-88-3	Toluene	200	1.3	53	0.33	
591-78-6	2-Hexanone	5.3	1.3	1.3	0.31	
124-48-1	Dibromochloromethane	ND	0.25	ND	0.030	
106-93-4	1,2-Dibromoethane	ND	0.25	ND	0.033	
123-86-4	n-Butyl Acetate	5.0	1.3	1.1	0.27	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **313**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102716
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00909

Date Collected: 9/1/09
 Date Received: 9/4/09
 Date Analyzed: 9/16/09
 Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	17	1.3	3.5	0.27	
127-18-4	Tetrachloroethene	ND	0.25	ND	0.037	
108-90-7	Chlorobenzene	ND	0.25	ND	0.055	
100-41-4	Ethylbenzene	40	1.3	9.2	0.29	
179601-23-1	m,p-Xylenes	140	1.3	31	0.29	
75-25-2	Bromoform	ND	1.3	ND	0.12	
100-42-5	Styrene	2.8	1.3	0.65	0.30	
95-47-6	o-Xylene	46	1.3	10	0.29	
111-84-2	n-Nonane	12	1.3	2.2	0.24	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.25	ND	0.037	
98-82-8	Cumene	4.1	1.3	0.84	0.26	
80-56-8	alpha-Pinene	110	1.3	19	0.23	
103-65-1	n-Propylbenzene	9.0	1.3	1.8	0.26	
622-96-8	4-Ethyltoluene	16	1.3	3.3	0.26	
108-67-8	1,3,5-Trimethylbenzene	14	1.3	2.9	0.26	
95-63-6	1,2,4-Trimethylbenzene	51	1.3	10	0.26	
100-44-7	Benzyl Chloride	ND	0.25	ND	0.049	
541-73-1	1,3-Dichlorobenzene	ND	0.25	ND	0.042	
106-46-7	1,4-Dichlorobenzene	0.96	0.25	0.16	0.042	
95-50-1	1,2-Dichlorobenzene	ND	0.25	ND	0.042	
5989-27-5	d-Limonene	35	1.3	6.3	0.23	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.3	ND	0.13	
120-82-1	1,2,4-Trichlorobenzene	ND	1.3	ND	0.17	
91-20-3	Naphthalene	10	1.3	1.9	0.24	
87-68-3	Hexachlorobutadiene	ND	1.3	ND	0.12	

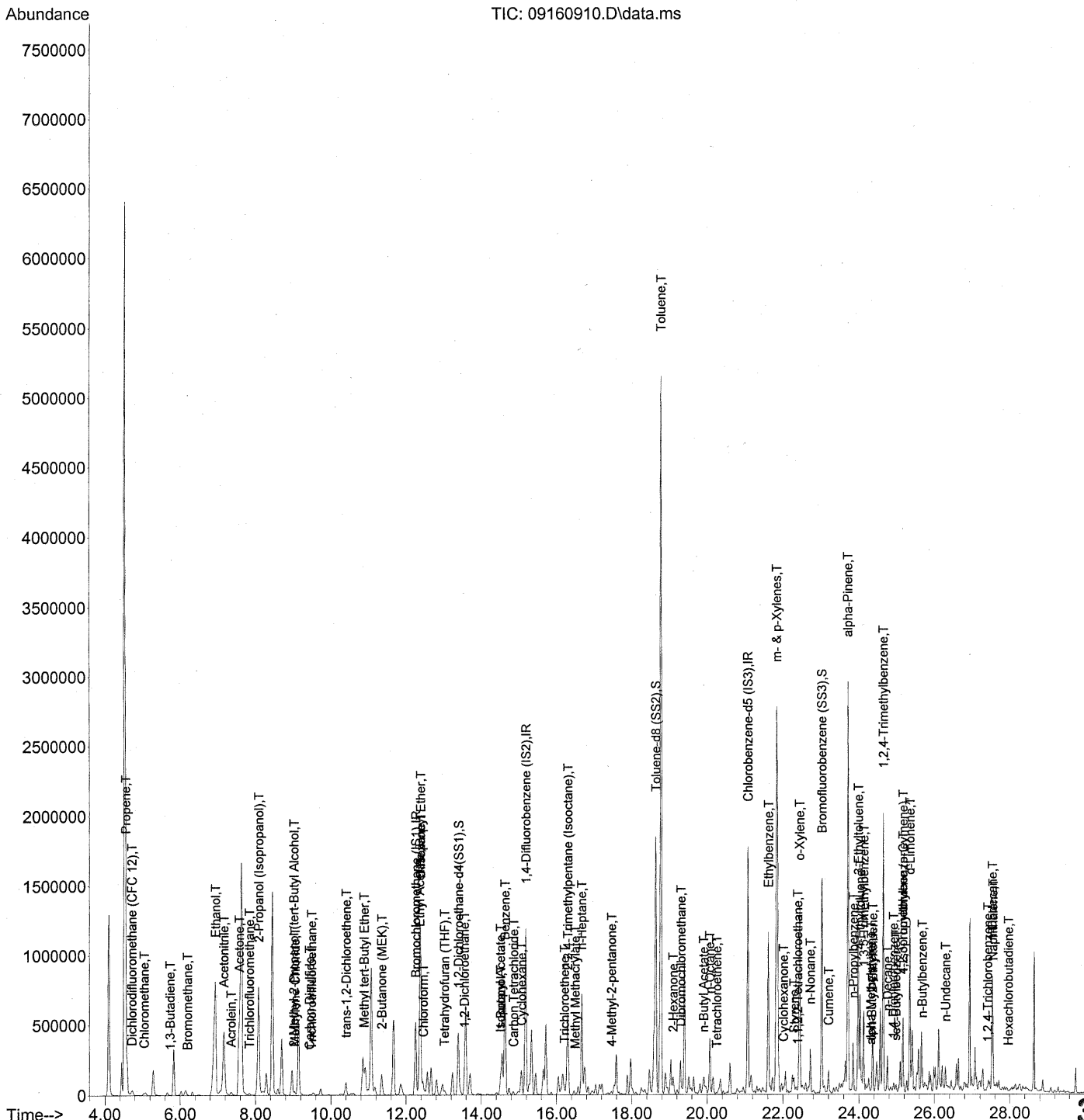
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **314**

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716 ✓
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:48:58 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716 ✓
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:48:58 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

W 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	341379	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1623845	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	695660	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	454569	24.162	ng	-0.03
Spiked Amount	25.000			Recovery =	96.64%	✓
57) Toluene-d8 (SS2)	18.63	98	1698488	24.391	ng	0.00
Spiked Amount	25.000			Recovery =	97.56%	✓
73) Bromofluorobenzene (SS3)	23.02	174	686637	27.517	ng	0.00
Spiked Amount	25.000			Recovery =	110.08%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	99549	7.161 ng	# M	80
3) Dichlorodifluoromethan...	4.72	85	27467	1.033 ng		98
4) Chloromethane	5.04	50	8737	0.401 ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	559	N.D.		
6) Vinyl Chloride	5.48	62	52	N.D.		
7) 1,3-Butadiene	5.74	54	1484	0.102 ng		97
8) Bromomethane	6.20	94	807	0.059 ng		91
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.94	45	2149924	213.333 ng		99
11) Acetonitrile	7.17	41	909443	35.680 ng		99
12) Acrolein	7.35	56	30246	4.034 ng		98
13) Acetone	7.57	58	511163	50.347 ng	# M	1
14) Trichlorofluoromethane	7.84	101	15483	0.629 ng		100
15) 2-Propanol (Isopropanol)	8.08	45	1635665	46.777 ng		97
16) Acrylonitrile	0.00	53	0	N.D. d		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.02	59	10832	0.300 ng	#	1
19) Methylene Chloride	9.04	84	9187	0.593 ng		79
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.49	151	2928	0.241 ng	#	83
22) Carbon Disulfide	9.43	76	10428	0.194 ng		99
23) trans-1,2-Dichloroethene	10.40	61	1289	0.067 ng	#	17
24) 1,1-Dichloroethane	0.00	63	0	N.D. d		
25) Methyl tert-Butyl Ether	10.88	73	10942	0.280 ng		78
26) Vinyl Acetate	0.00	86	0	N.D. d		
27) 2-Butanone (MEK)	11.35	72	80995	8.305 ng	#	71
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.37	87	13753	1.217 ng	#	1
30) Ethyl Acetate	12.36	61	36460	7.364 ng	#	62
31) n-Hexane	12.37	57	858975	43.799 ng		99

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:48:58 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	26698	1.110 ng		95
34) Tetrahydrofuran (THF)	13.02	72	7203	0.798 ng	#	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	38048	2.293 ng		98
38) 1,1,1-Trichloroethane	13.94	97	398	N.D.		
39) Isopropyl Acetate	14.51	61	2913	0.324 ng	#	1
40) 1-Butanol	14.51	56	102239	6.979 ng		78
41) Benzene	14.63	78	1136435	19.623 ng		99
42) Carbon Tetrachloride	14.86	117	4040	0.232 ng		96
43) Cyclohexane	15.07	84	114498	5.418 ng		91
44) tert-Amyl Methyl Ether	15.55	73	1183	N.D.		
45) 1,2-Dichloropropane	15.87	63	181	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.22	130	7576	0.435 ng		99
48) 1,4-Dioxane	16.18	88	525	N.D.		
49) 2,2,4-Trimethylpentane...	16.30	57	719315	12.329 ng		95
50) Methyl Methacrylate	16.50	100	492	0.074 ng	#	1
51) n-Heptane	16.67	71	234452	15.864 ng		92
52) cis-1,3-Dichloropropene	17.42	75	163	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	7717	0.598 ng		96
54) trans-1,3-Dichloropropene	18.14	75	387	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.77	91	5163252	79.428 ng		99
59) 2-Hexanone	19.09	43	66441	2.120 ng	#	47
60) Dibromochloromethane	19.31	129	919	0.057 ng		86
61) 1,2-Dibromoethane	19.64	107	238	N.D.		
62) n-Butyl Acetate	19.91	43	71845	2.002 ng	#	75
63) n-Octane	20.07	57	80261	6.578 ng		87
64) Tetrachloroethene	20.26	166	1660	0.083 ng		85
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.61	91	1137426	15.935 ng		96
67) m- & p-Xylenes	21.83	91	3013680	54.018 ng		95
68) Bromoform	21.92	173	722	N.D.		
69) Styrene	22.29	104	50662	1.105 ng		96
70) o-Xylene	22.44	91	1029414	18.058 ng		96
71) n-Nonane	22.71	43	127670	4.615 ng		90
72) 1,1,2,2-Tetrachloroethane	22.39	83	4913	0.199 ng	# FP	41
74) Cumene	23.20	105	127490	1.634 ng		100
75) alpha-Pinene	23.70	93	1533019	41.809 ng		96
76) n-Propylbenzene	23.85	91	325375	3.567 ng		95
77) 3-Ethyltoluene	23.98	105	957660	12.988 ng		98
78) 4-Ethyltoluene	24.03	105	475307	6.528 ng		98
79) 1,3,5-Trimethylbenzene	24.13	105	340763	5.622 ng		98

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:48:58 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

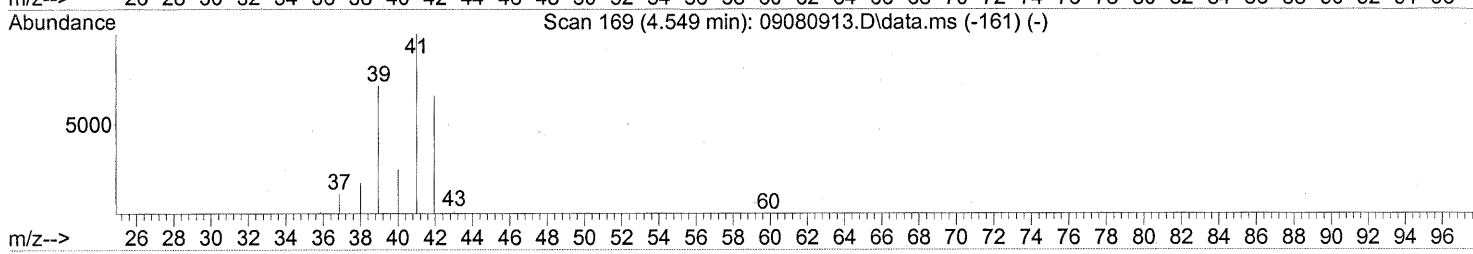
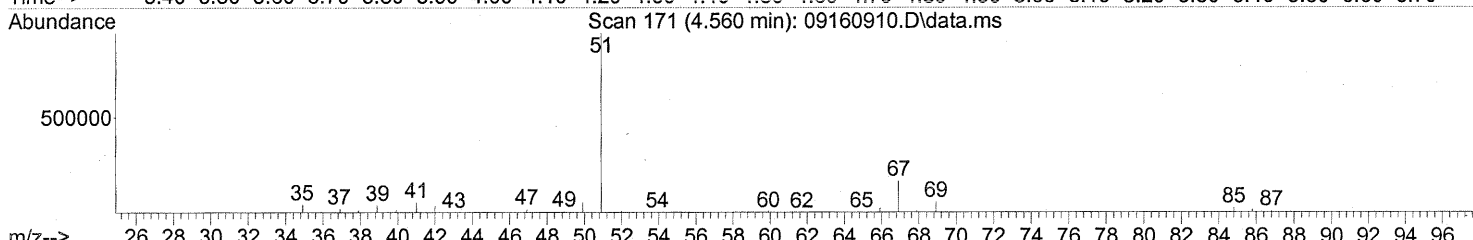
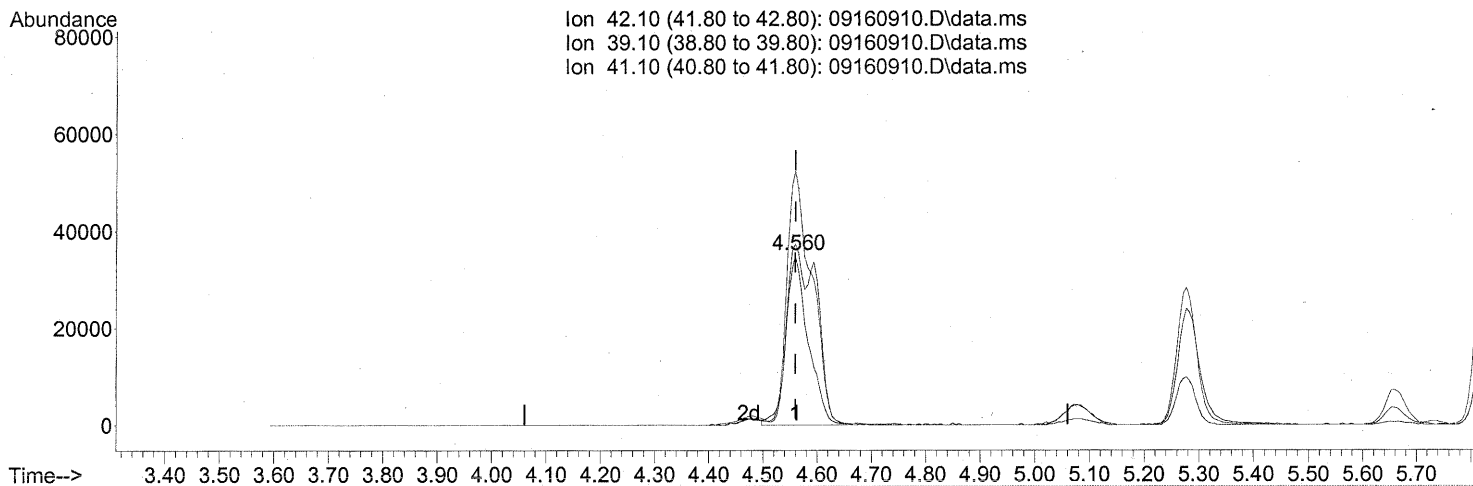
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	3428	0.098	ng	87
81) 2-Ethyltoluene	24.36	105	300409	3.885	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1307947	20.233	ng	92
83) n-Decane	24.75	57	96670	2.857	ng	88
84) Benzyl Chloride	24.80	91	1942	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	1599	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	14902	0.380	ng	99
87) sec-Butylbenzene	24.97	105	18179	0.215	ng	93
88) 4-Isopropyltoluene (p-...	25.16	119	117668	1.435	ng	89
89) 1,2,3-Trimethylbenzene	25.16	105	266818	4.215	ng	94
90) 1,2-Dichlorobenzene	25.34	146	1273	N.D.		
91) d-Limonene	25.34	68	323116	13.916	ng	78
92) 1,2-Dibromo-3-Chloropr...	25.87	157	466	N.D.		
93) n-Undecane	26.29	57	58224	1.492	ng	82
94) 1,2,4-Trichlorobenzene	27.40	180	1554	0.055	ng #	82
95) Naphthalene	27.53	128	371749	3.959	ng	95
96) n-Dodecane	27.52	57	200027	5.201	ng	93
97) Hexachlorobutadiene	27.96	225	1676	0.093	ng	82
98) Cyclohexanone	22.01	55	33282	1.384	ng #	71
99) tert-Butylbenzene	24.34	119	5676	0.089	ng	98
100) n-Butylbenzene	25.67	91	90776	1.398	ng #	29

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.560min (-0.000) 7.16ng

M

BEFORE SUBTRACTION

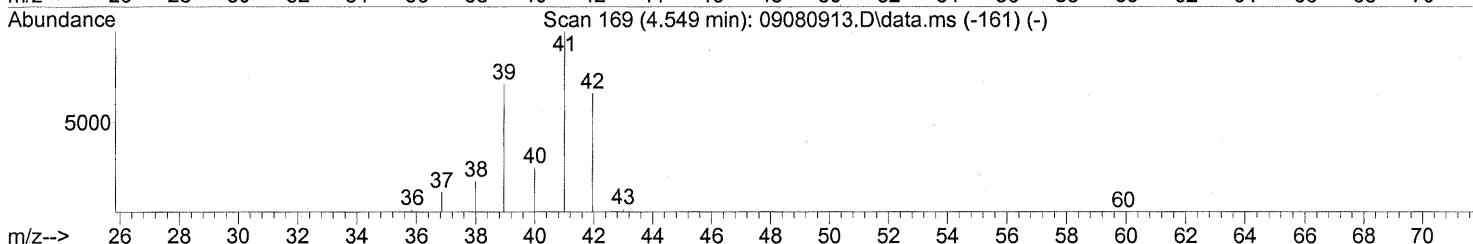
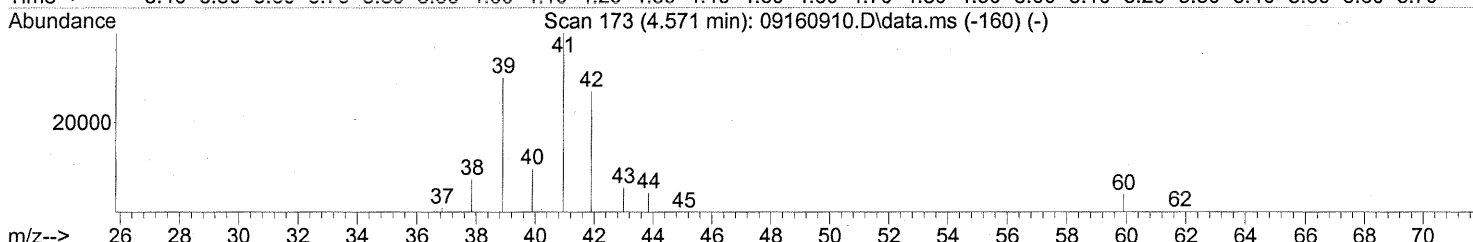
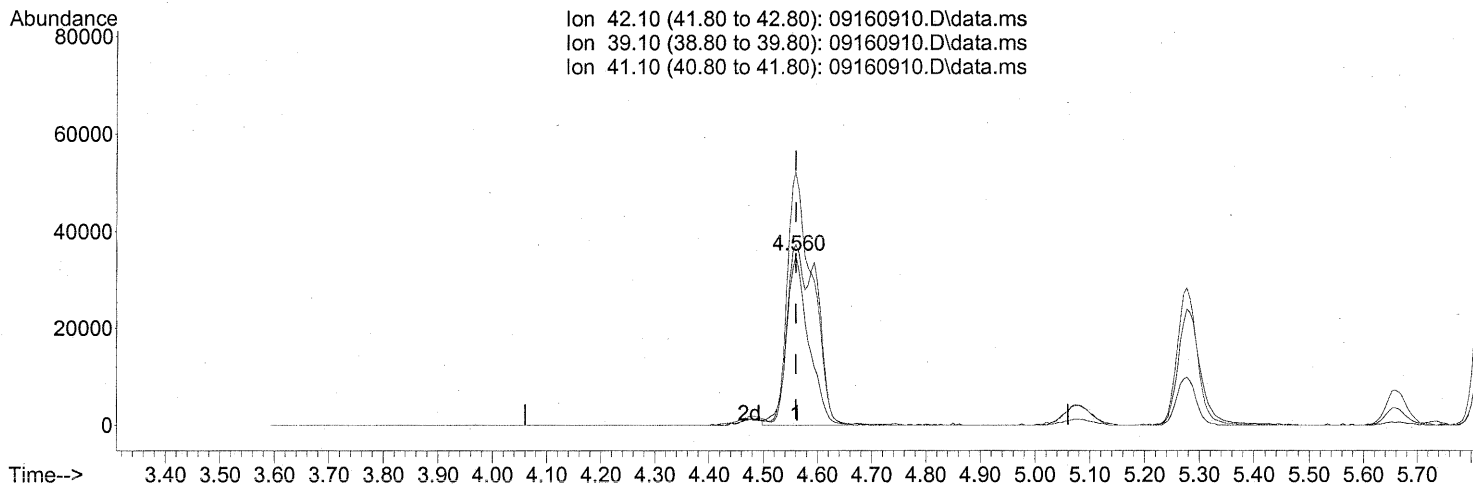
response 99549

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	141.02#
41.10	152.10	167.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(2) Propene (T)

4.560min (-0.000) 7.16ng

M

AFTER SUBTRACTION

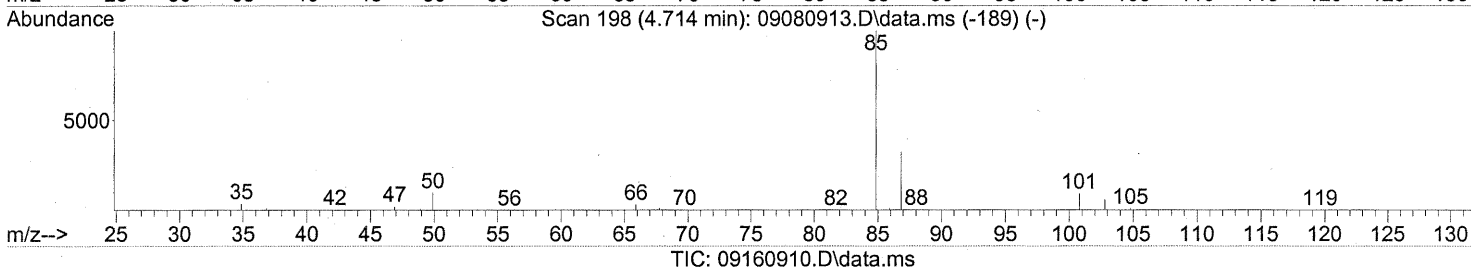
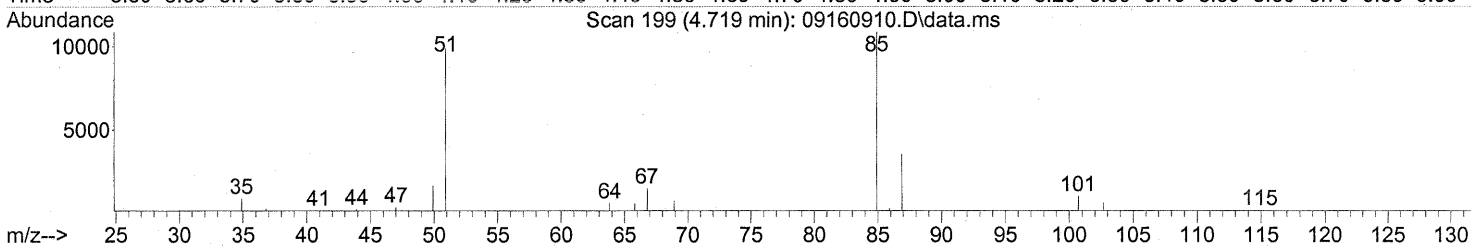
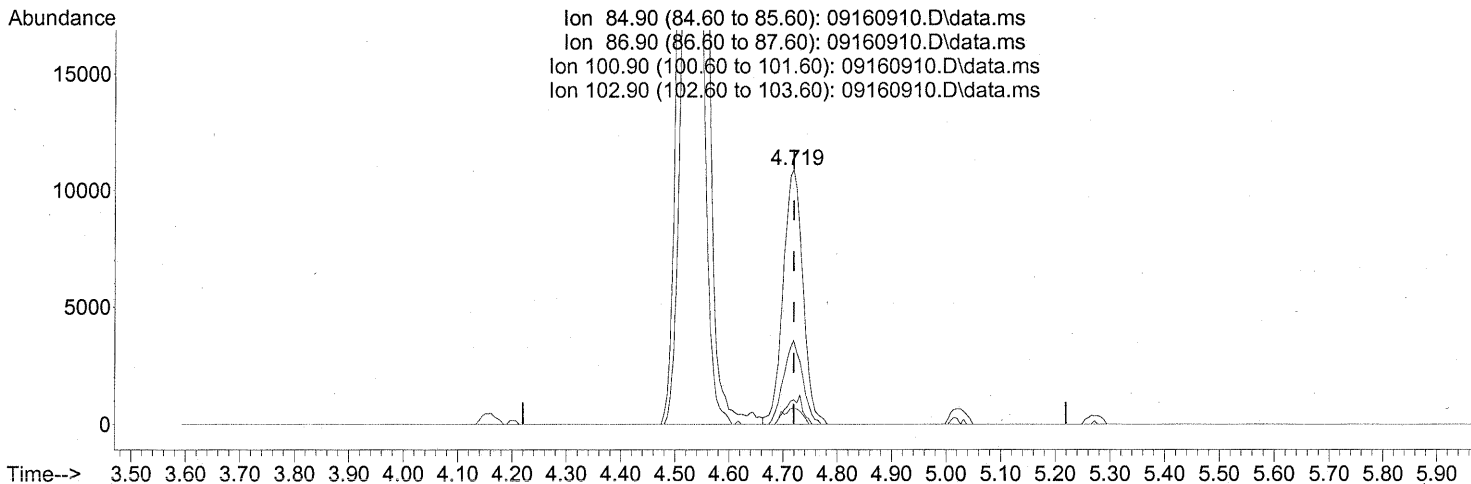
response 99549

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	141.02#
41.10	152.10	167.75
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (-0.000) 1.03ng

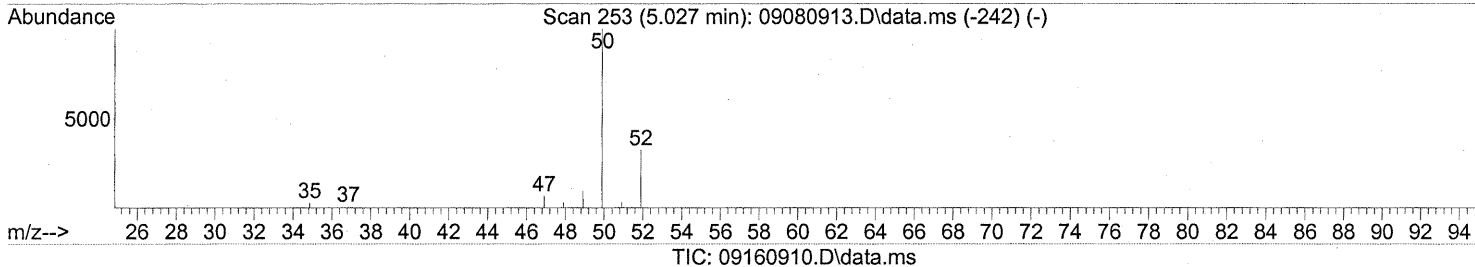
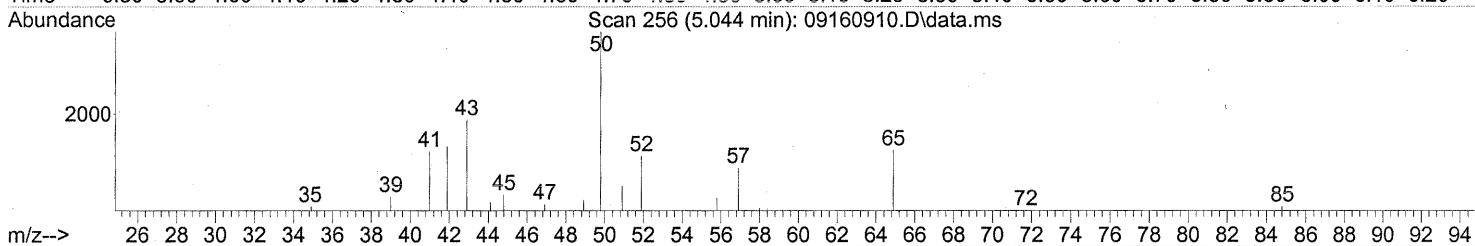
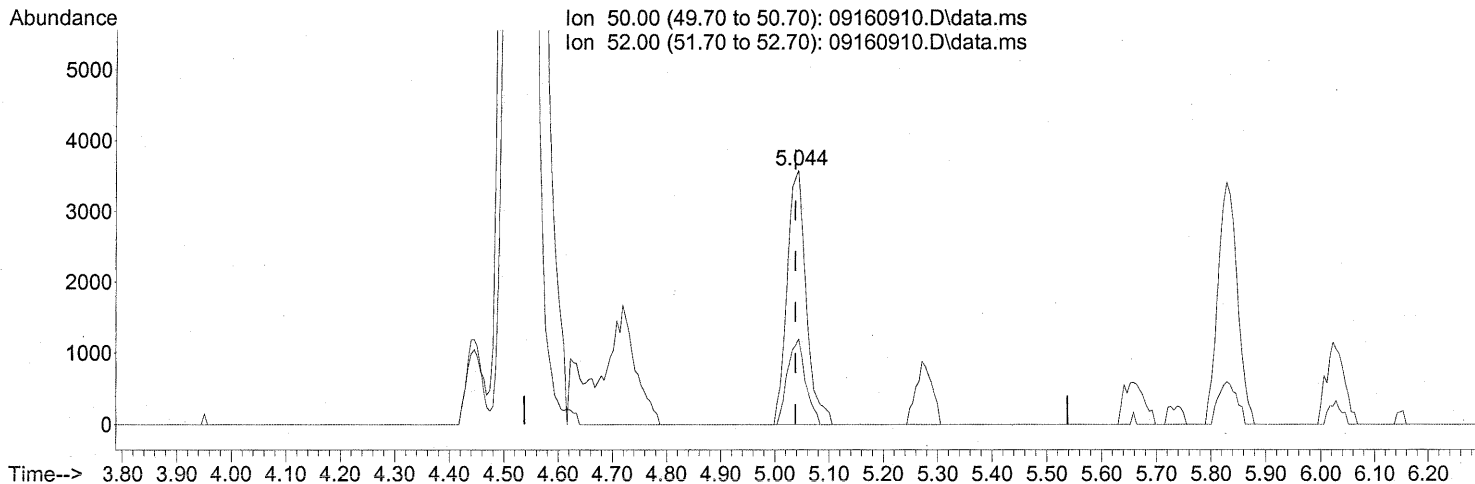
response 27467

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	31.65
100.90	8.60	9.01
102.90	5.90	6.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.044min (+0.006) 0.40ng

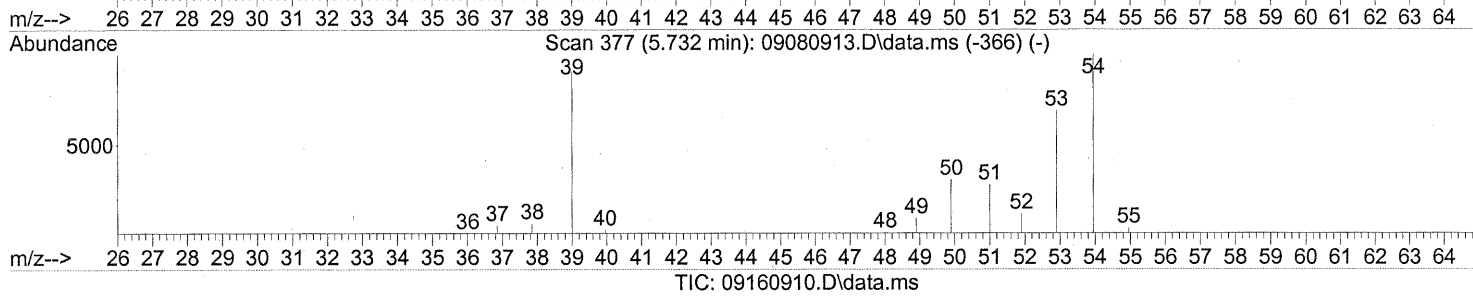
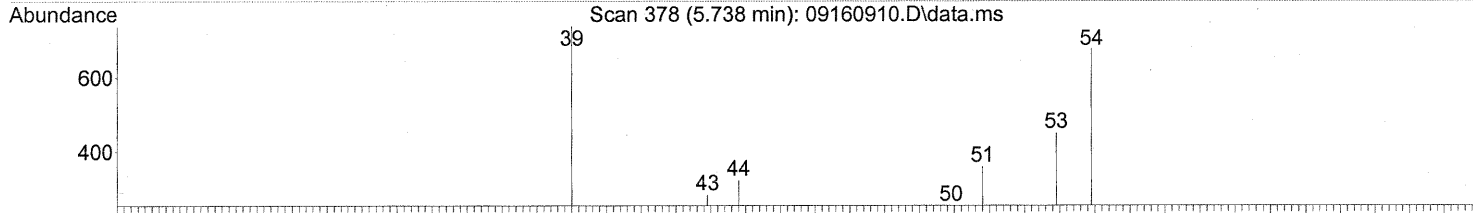
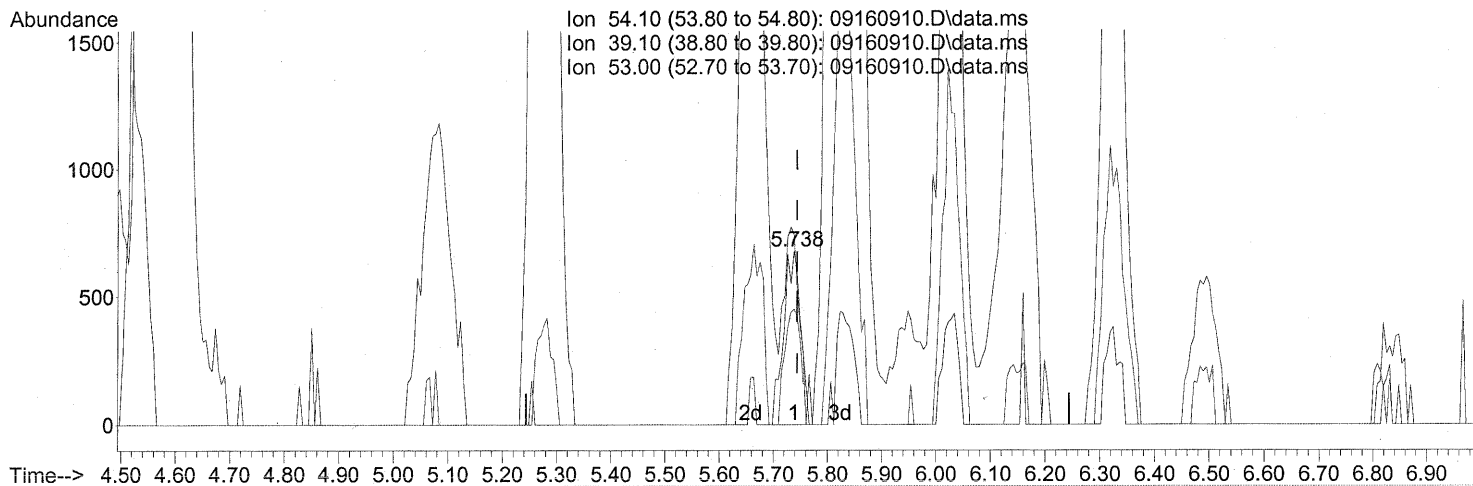
response 8737

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	31.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



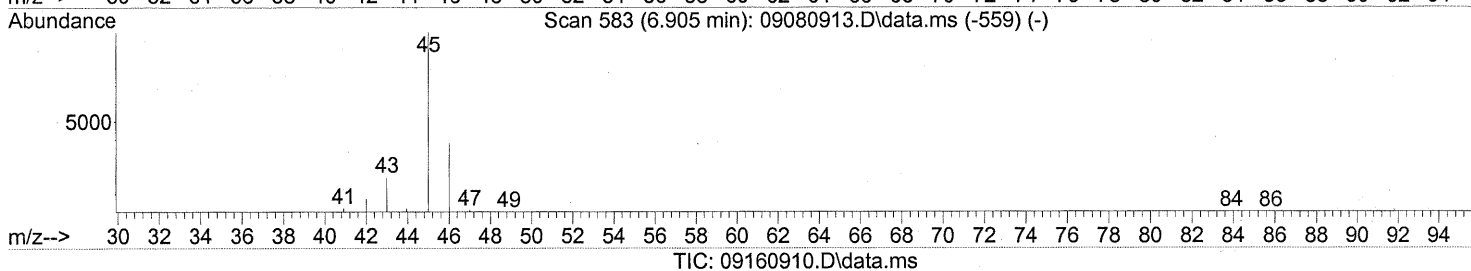
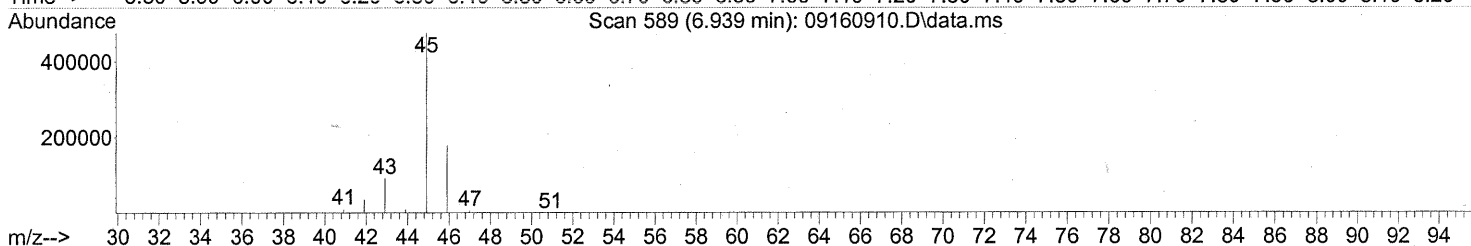
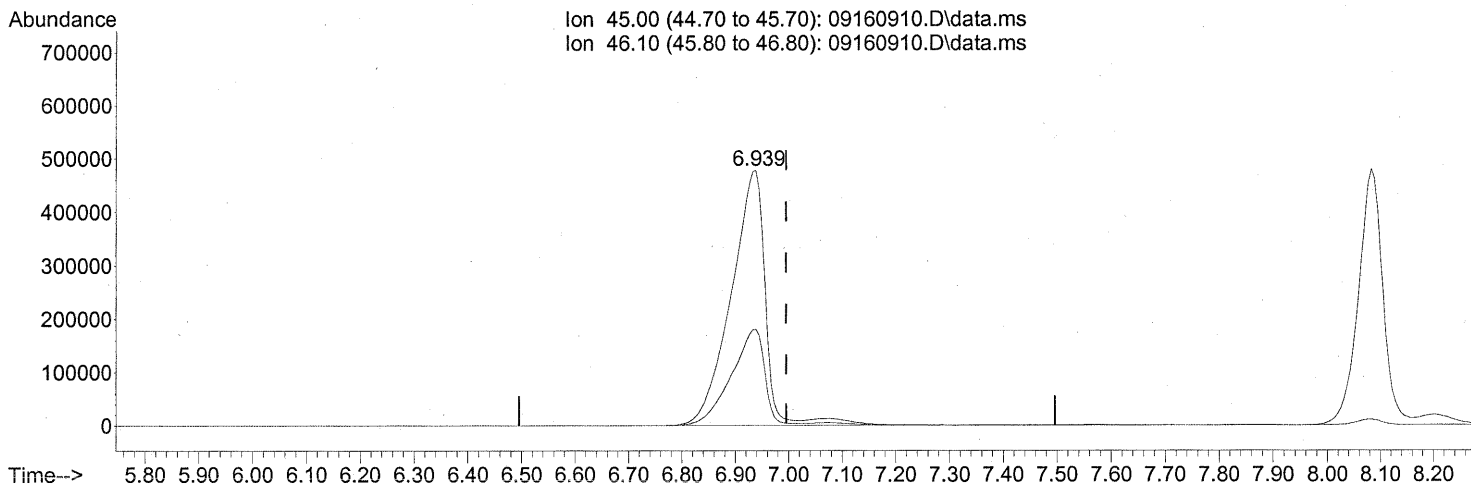
(7) 1,3-Butadiene (T)
 5.738min (-0.006) 0.10ng
 response 1484

Ion	Exp%	Act%
54.10	100	100
39.10	99.80	101.62
53.00	69.60	65.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.939min (-0.057) 213.33ng

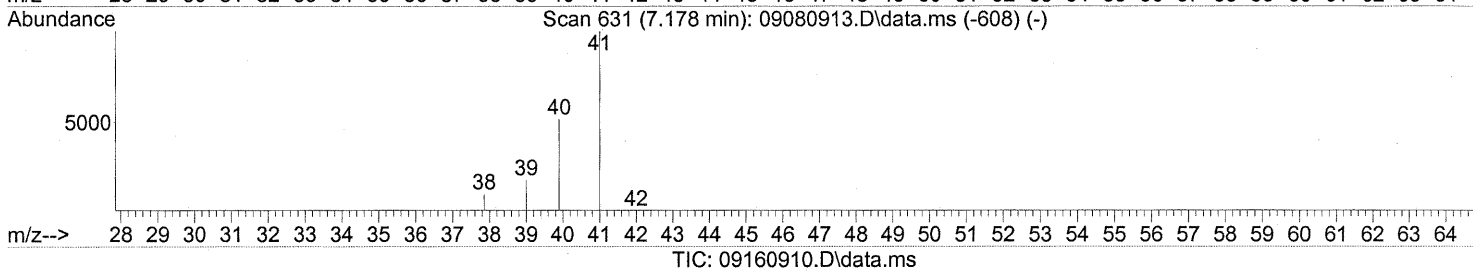
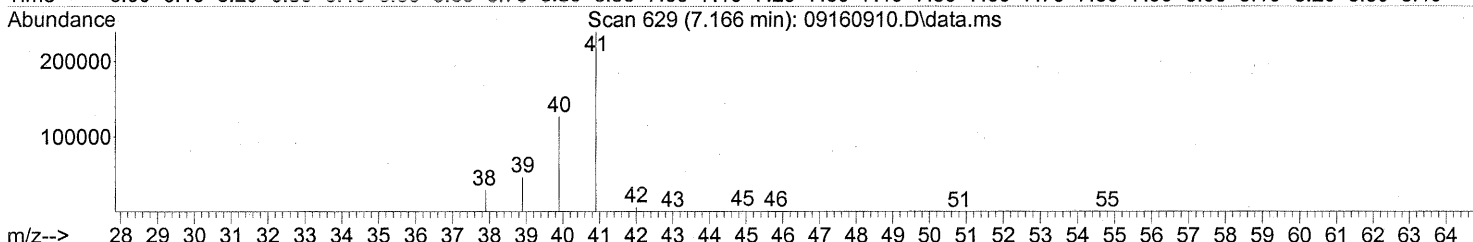
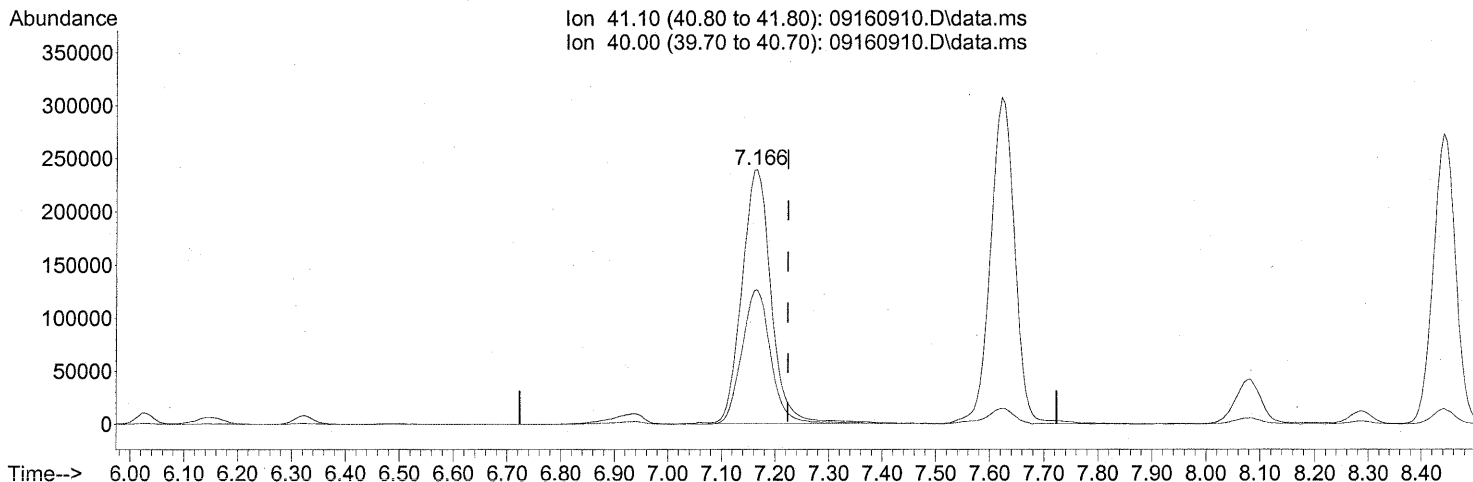
response 2149924

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



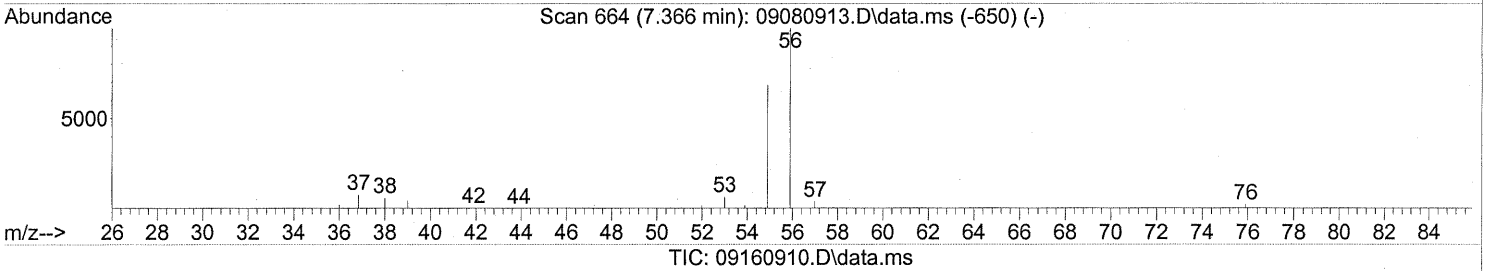
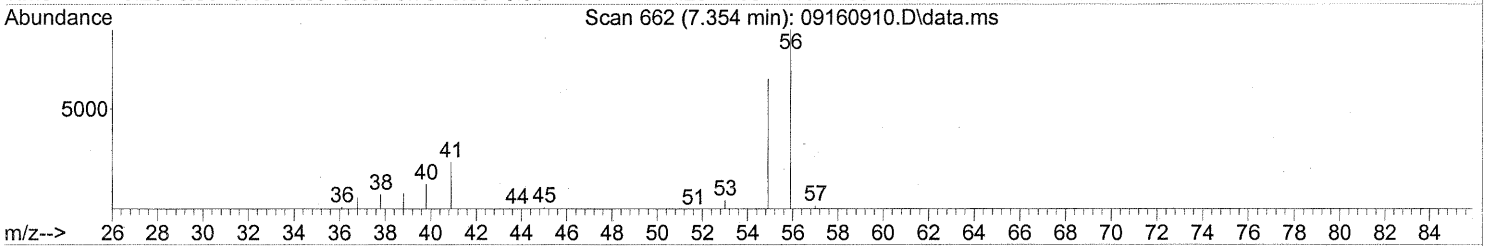
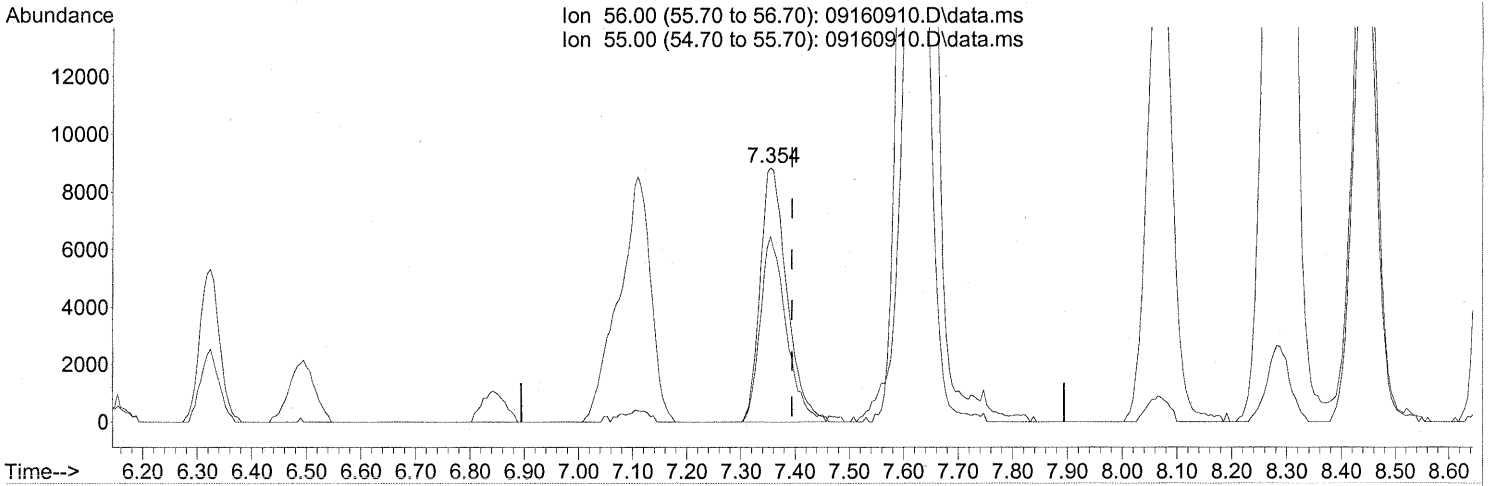
(11) Acetonitrile (T)
 7.166min (-0.057) 35.68ng
 response 909443

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	53.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(12) Acrolein (T)

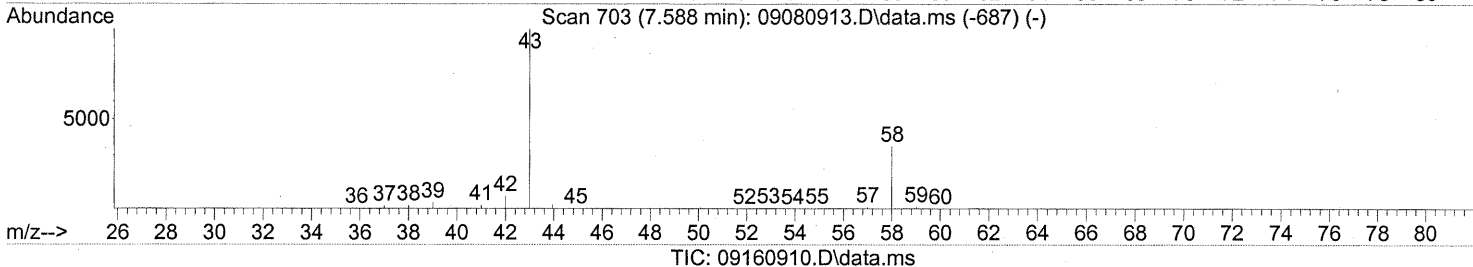
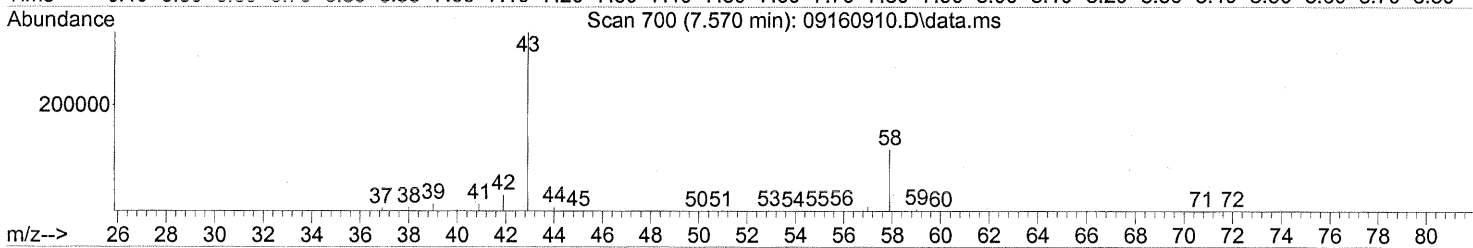
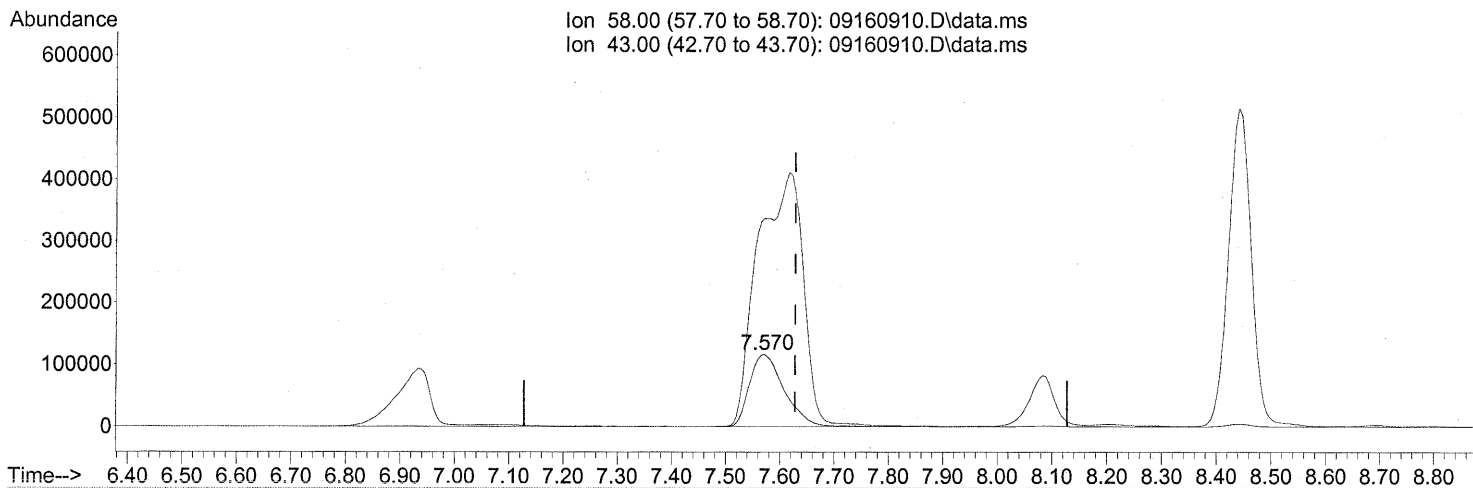
7.354min (-0.040) 4.03ng
 response 30246

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	71.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.570min (-0.057) 50.35ng *M*

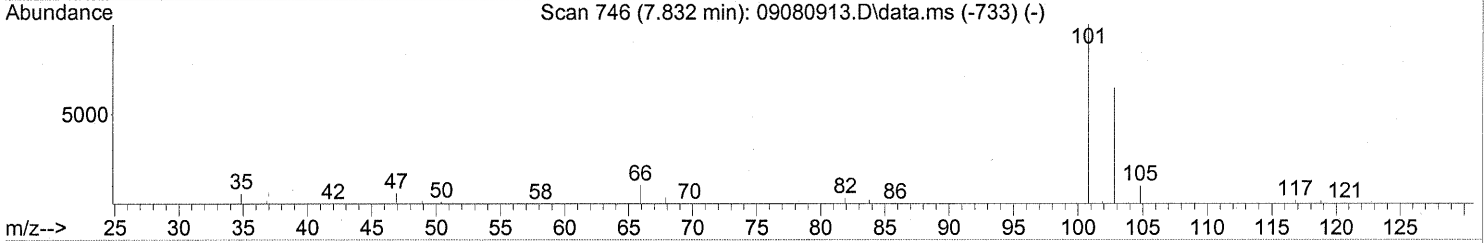
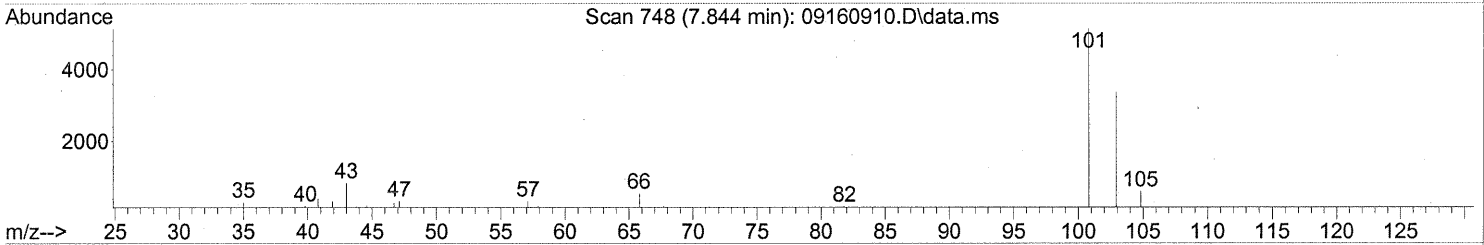
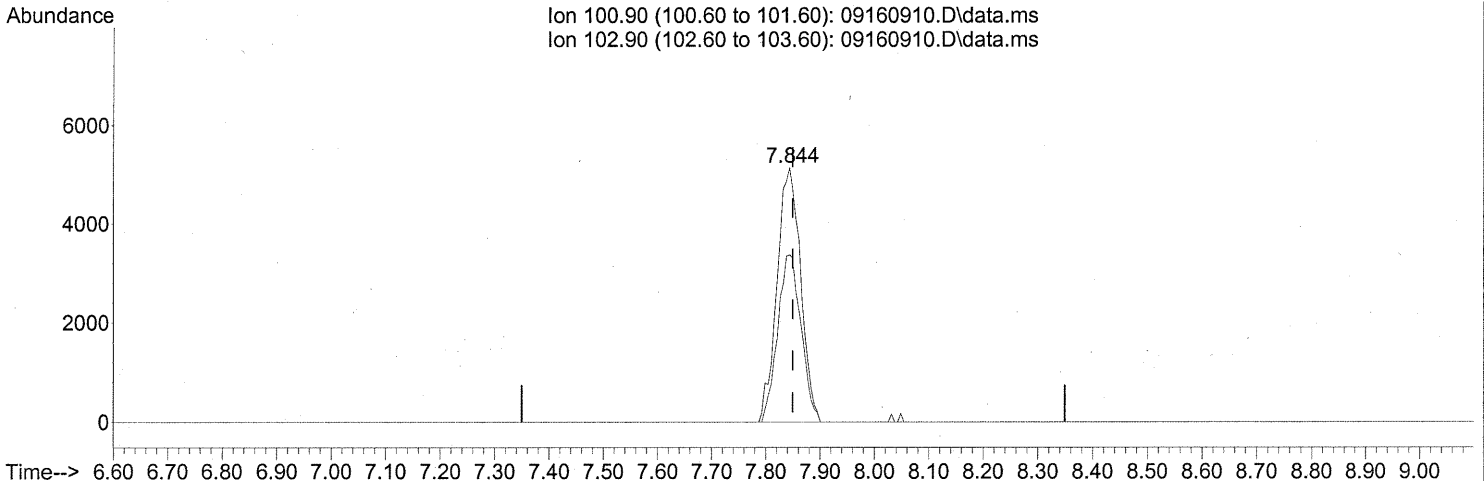
response 511163

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(14) Trichlorofluoromethane (T)

7.844min (-0.006) 0.63ng

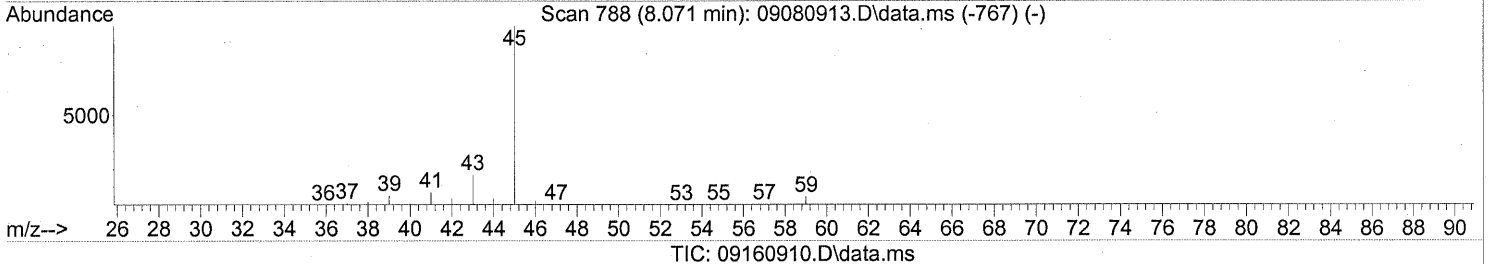
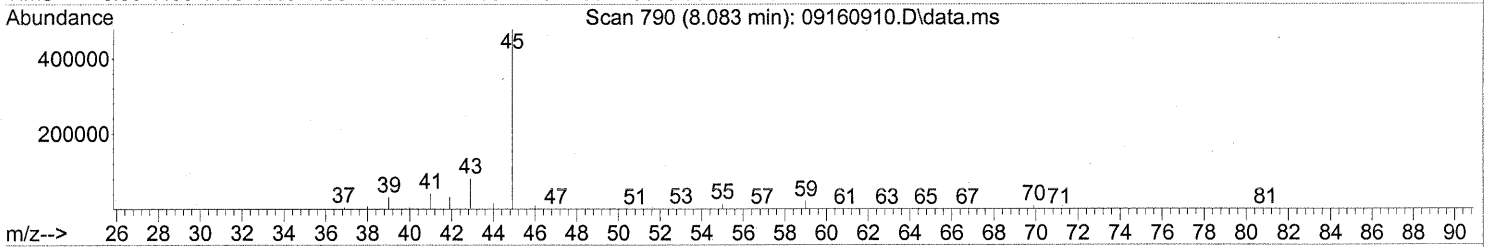
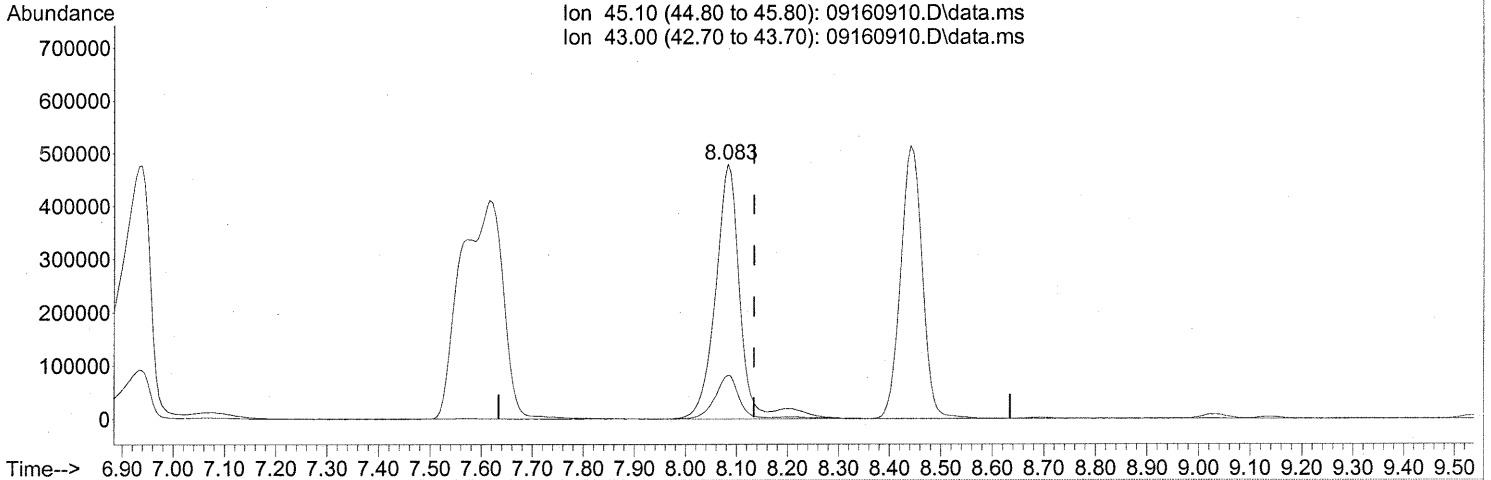
response 15483

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	65.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160910.D
Acq On : 16 Sep 2009 14:53
Operator : LH
Sample : P0903145-007 (500mL)
Misc : Environmental H & E 102716
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 46.78ng

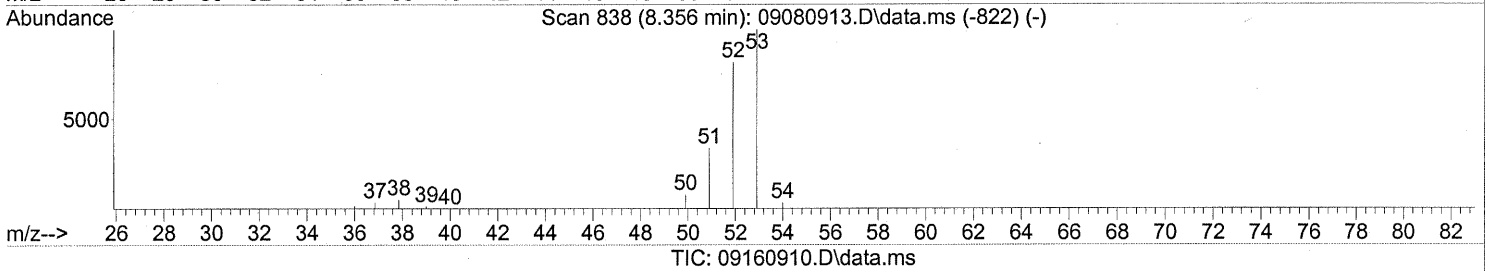
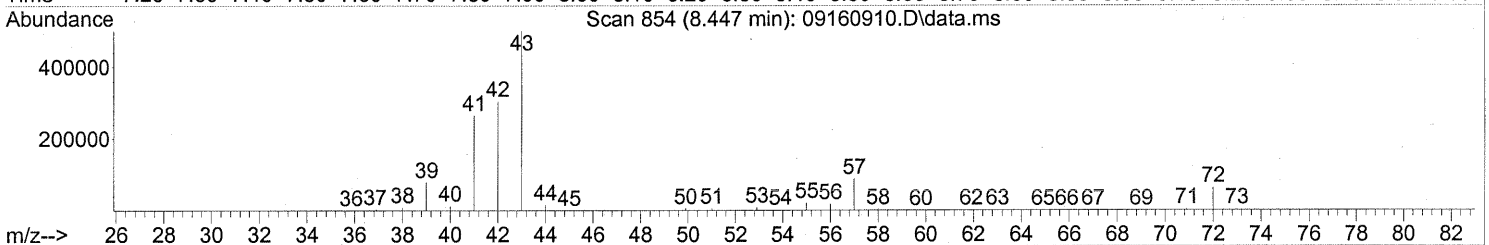
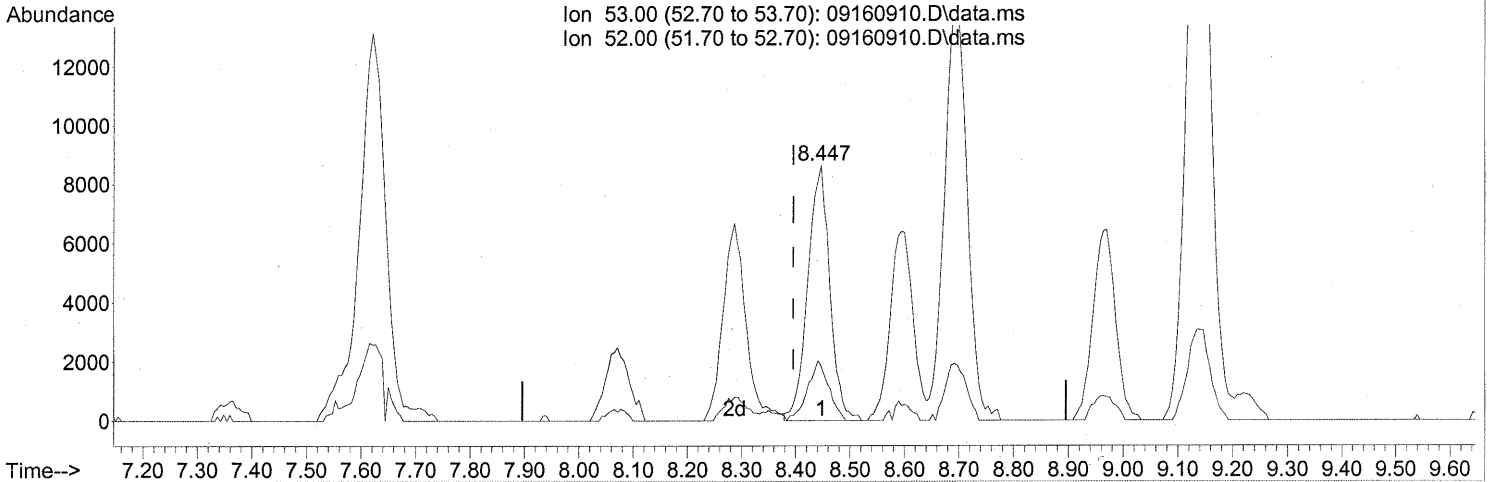
response 1635665

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
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 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.447min (+0.051) 1.24ng
 response 24375

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	22.57#
0.00	0.00	0.00
0.00	0.00	0.00

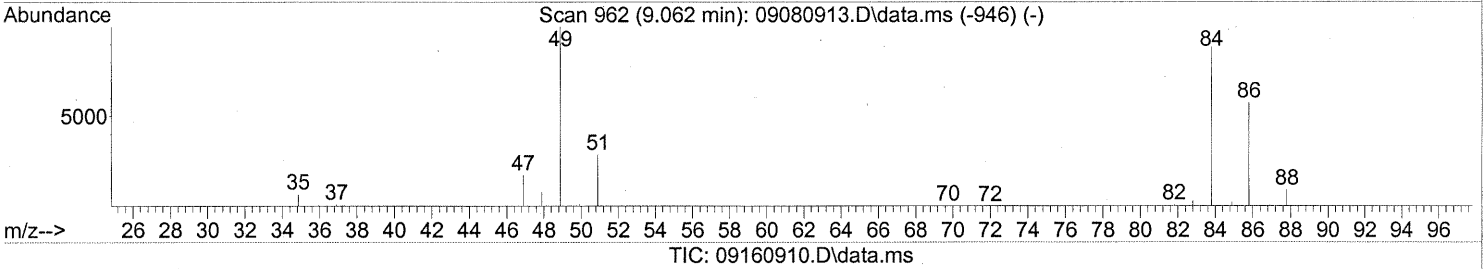
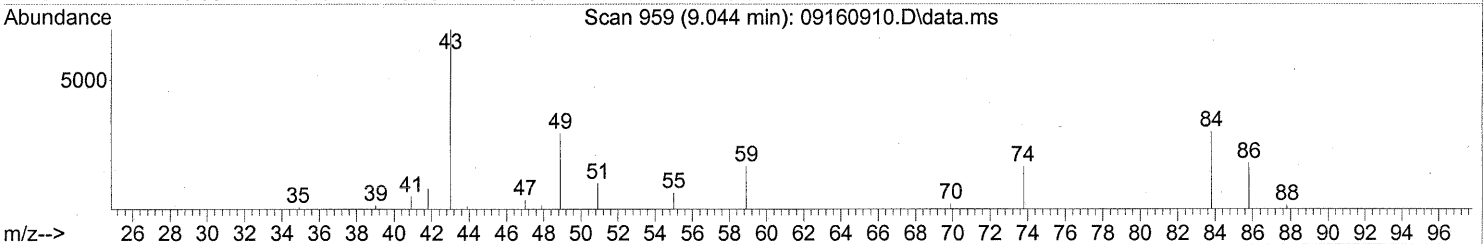
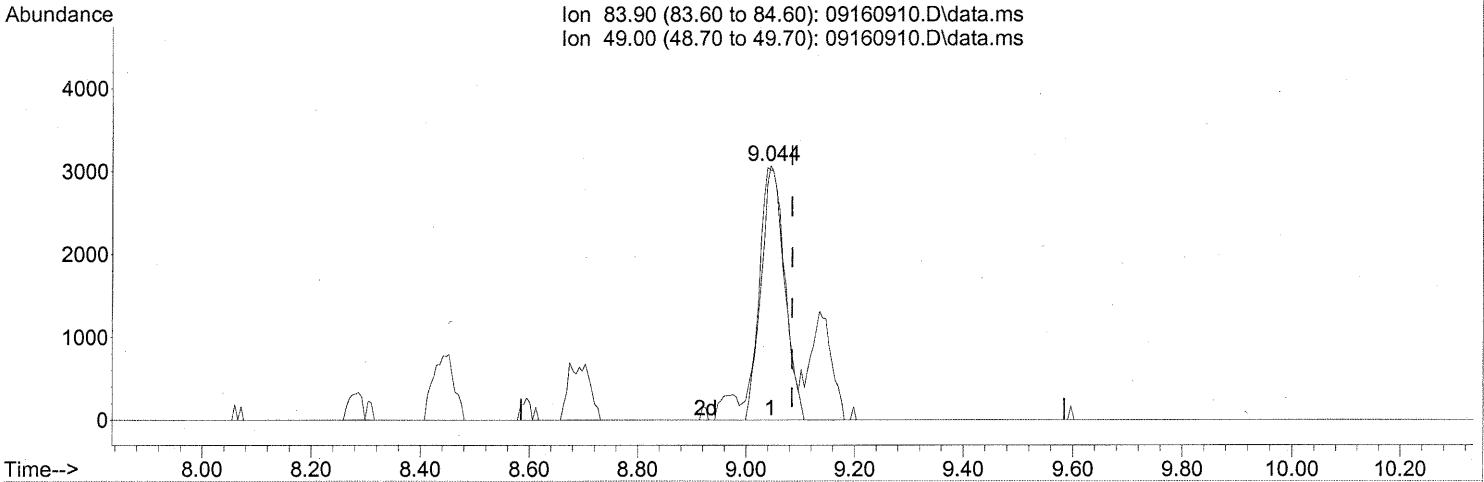
FP W 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
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 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.044min (-0.040) 0.59ng

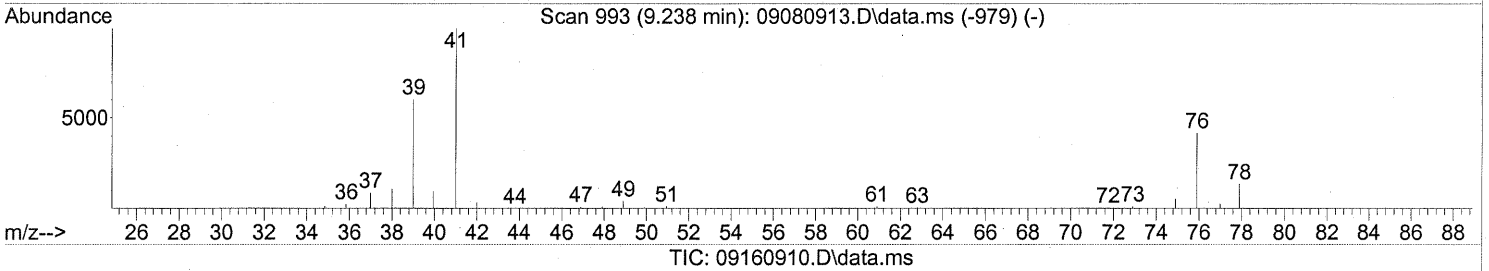
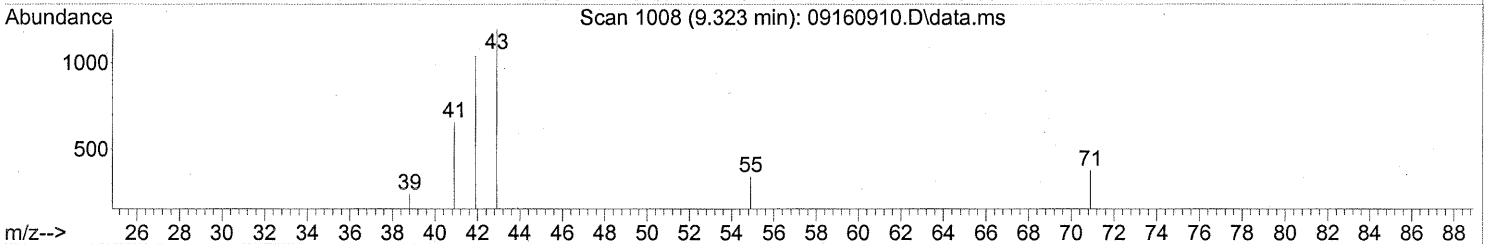
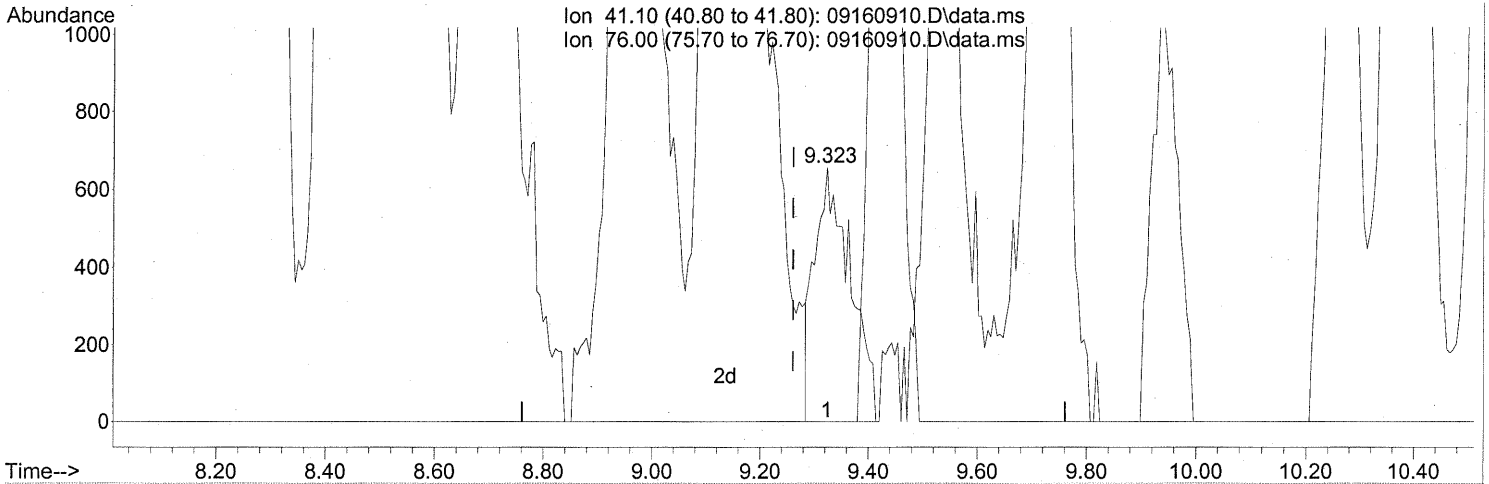
response 9187

Ion	Exp%	Act%
83.90	100	100
49.00	133.30	109.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
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 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.323min (+0.062) 0.17ng

response 3022

Ion	Exp%	Act%
41.10	100	100
76.00	35.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

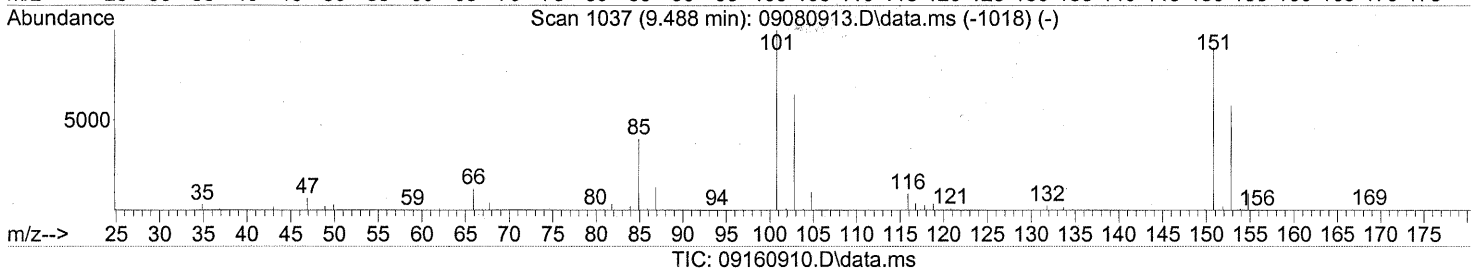
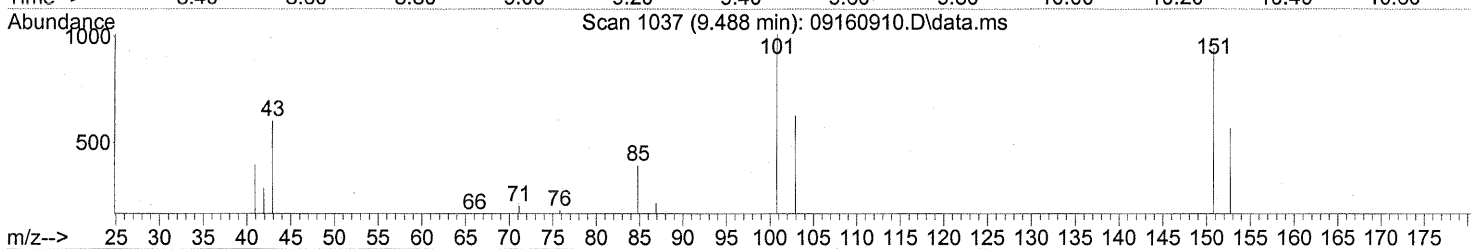
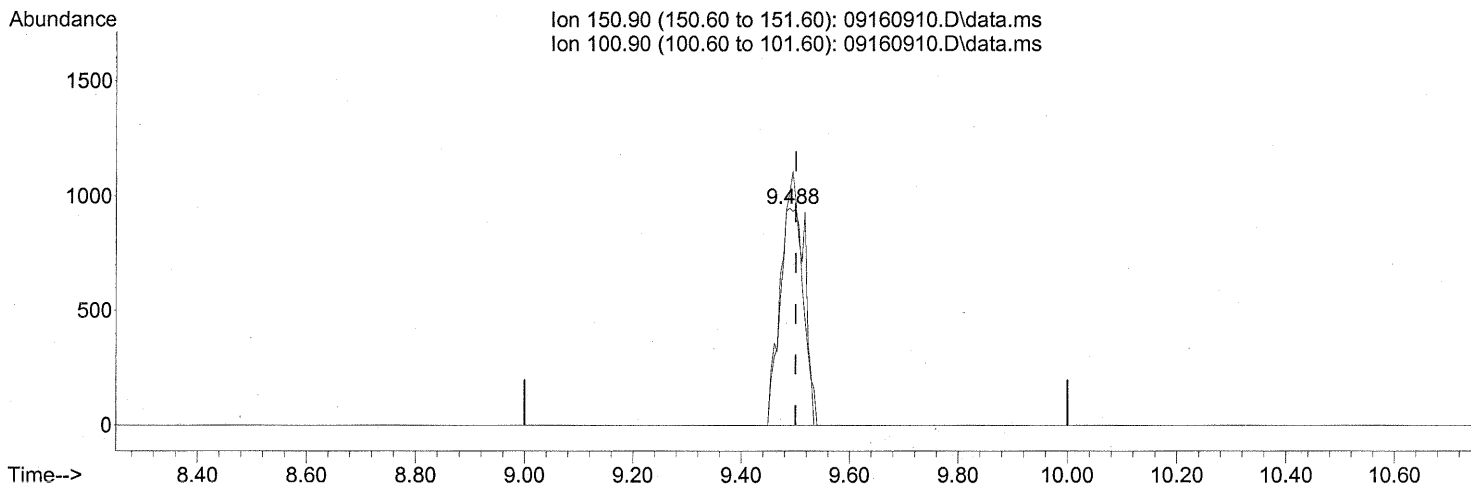
FP in 9/18/09

JA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.488min (-0.011) 0.24ng

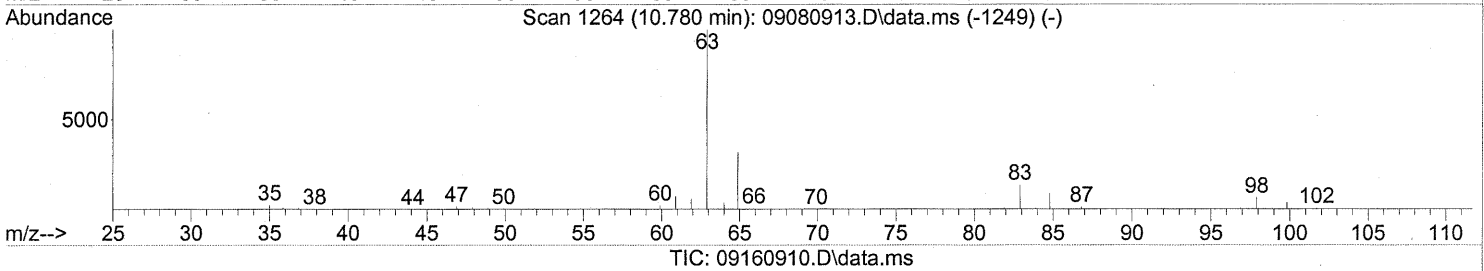
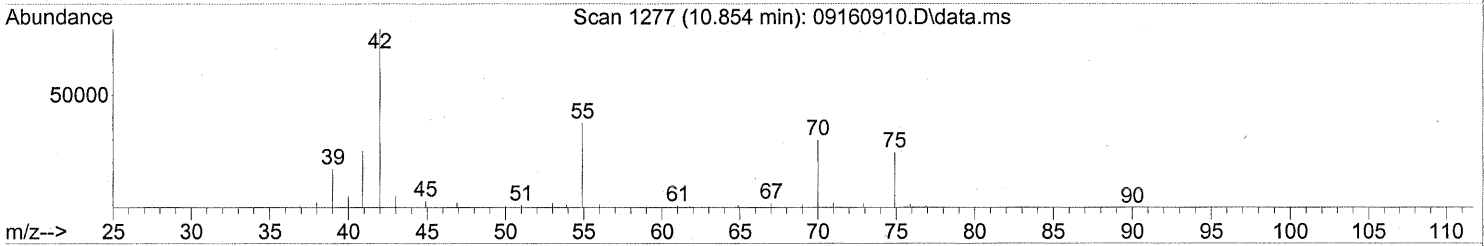
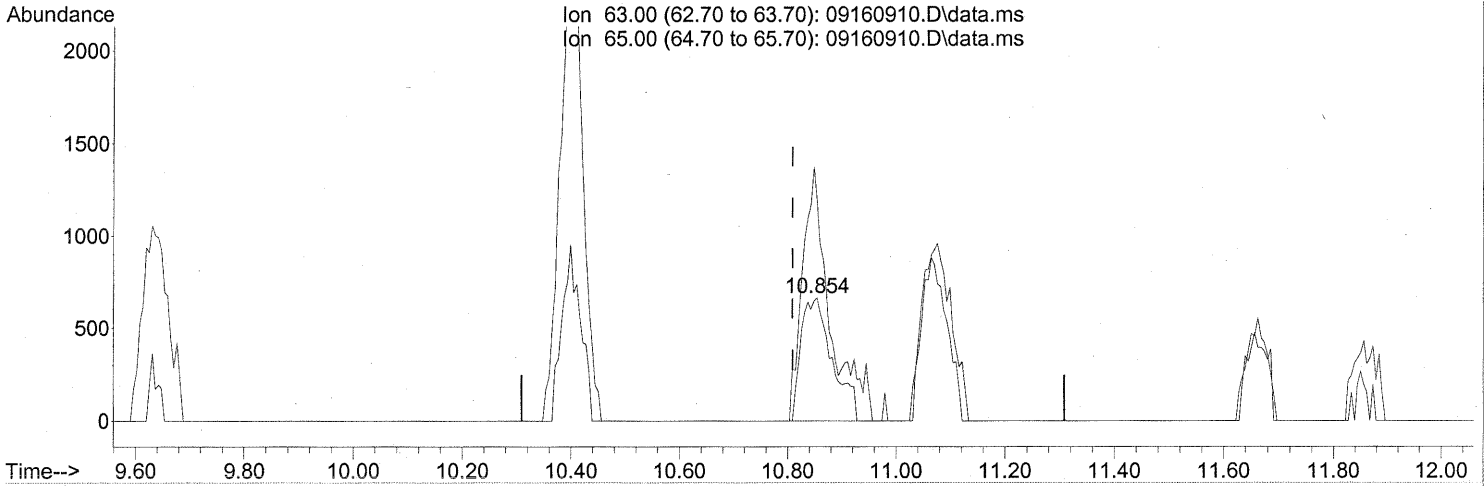
response 2928

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	108.54#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

10.854min (+0.045) 0.11ng

response 2658

Ion	Exp%	Act%
63.00	100	100
65.00	31.80	182.66#
0.00	0.00	0.00
0.00	0.00	0.00

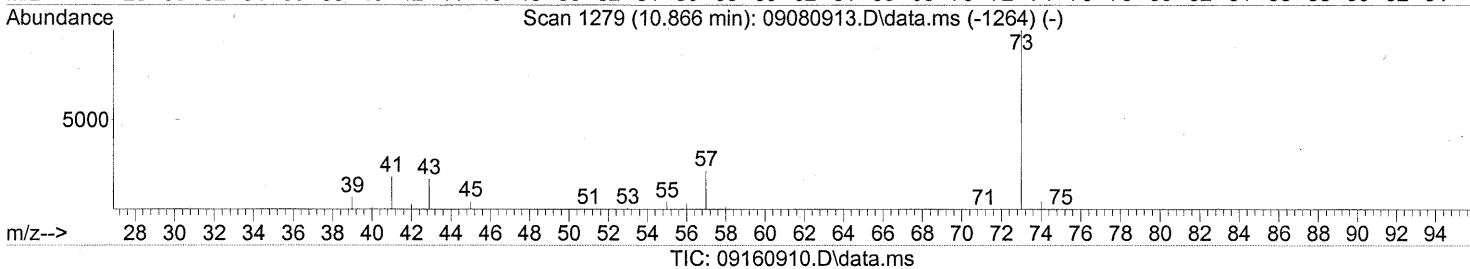
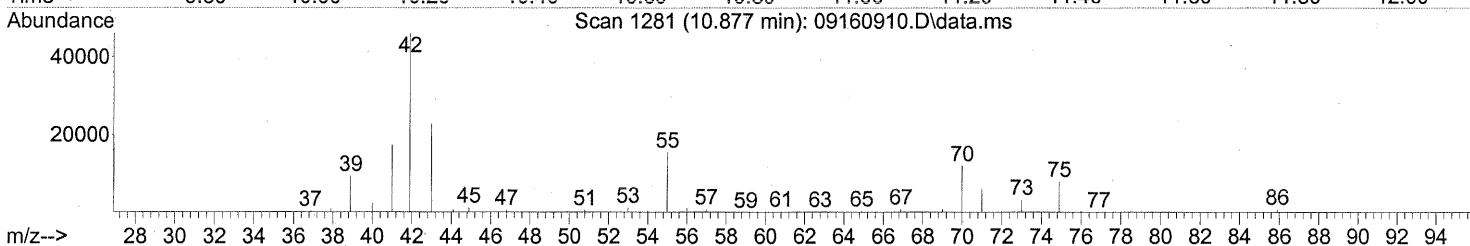
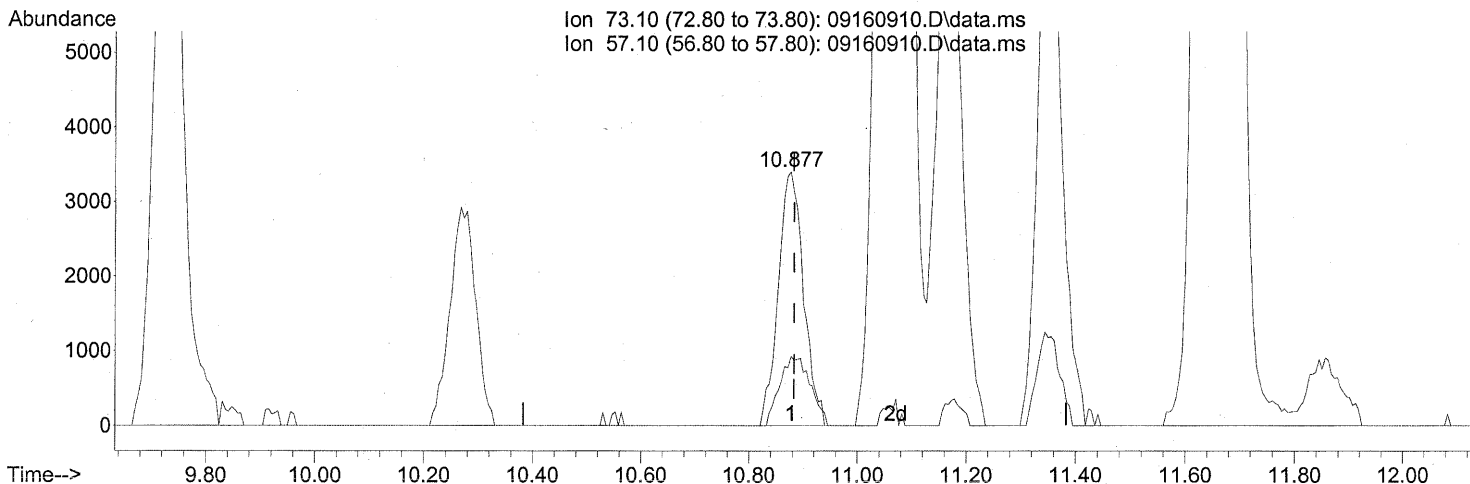
FP W 9/18/09

BA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.877min (-0.006) 0.28ng

response 10942

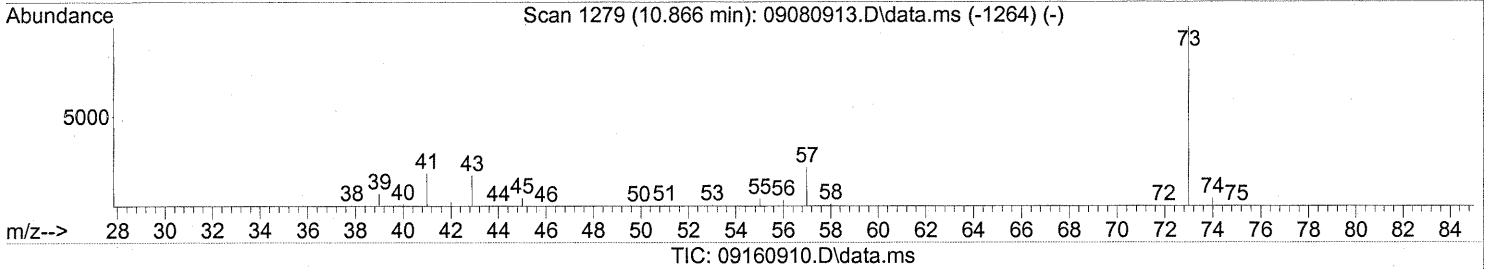
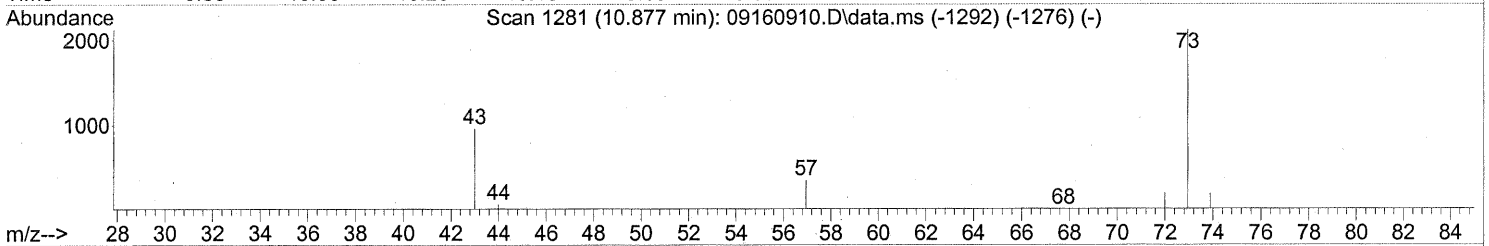
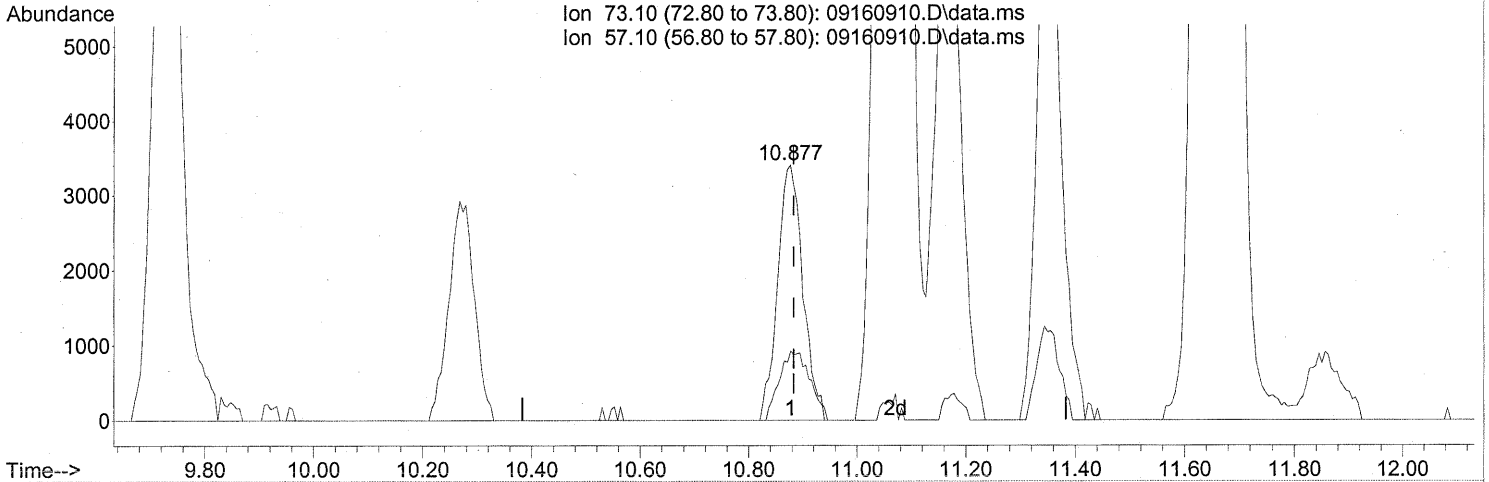
Ion	Exp%	Act%
73.10	100	100
57.10	22.60	33.01
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:44:04 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.877min (-0.006) 0.28ng

response 10942

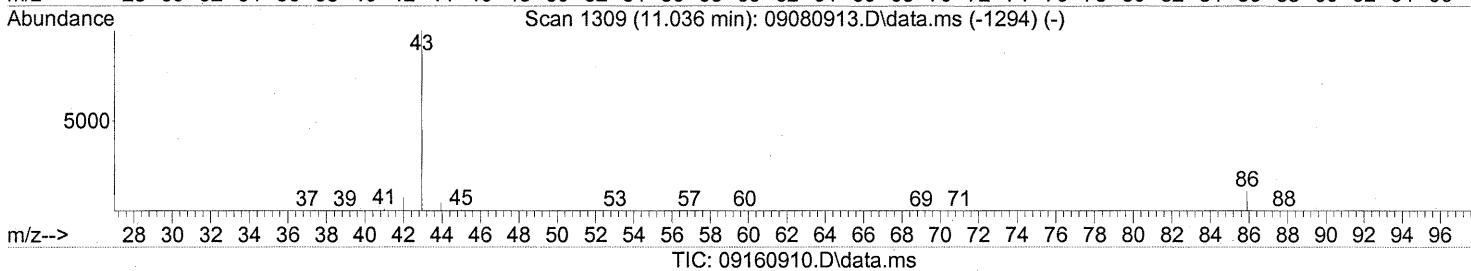
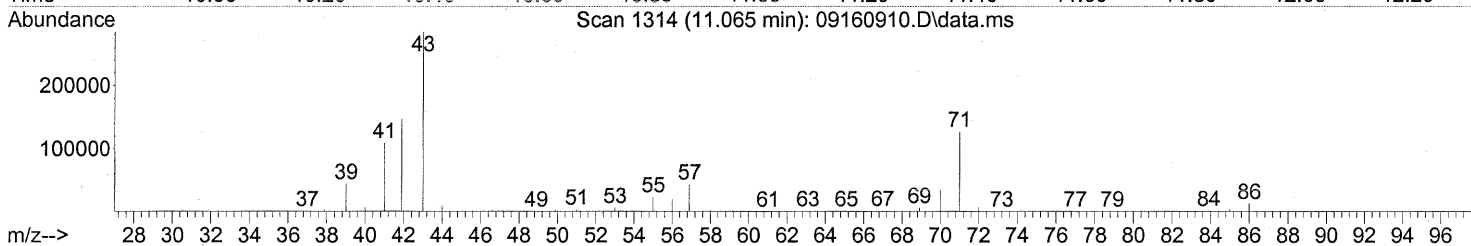
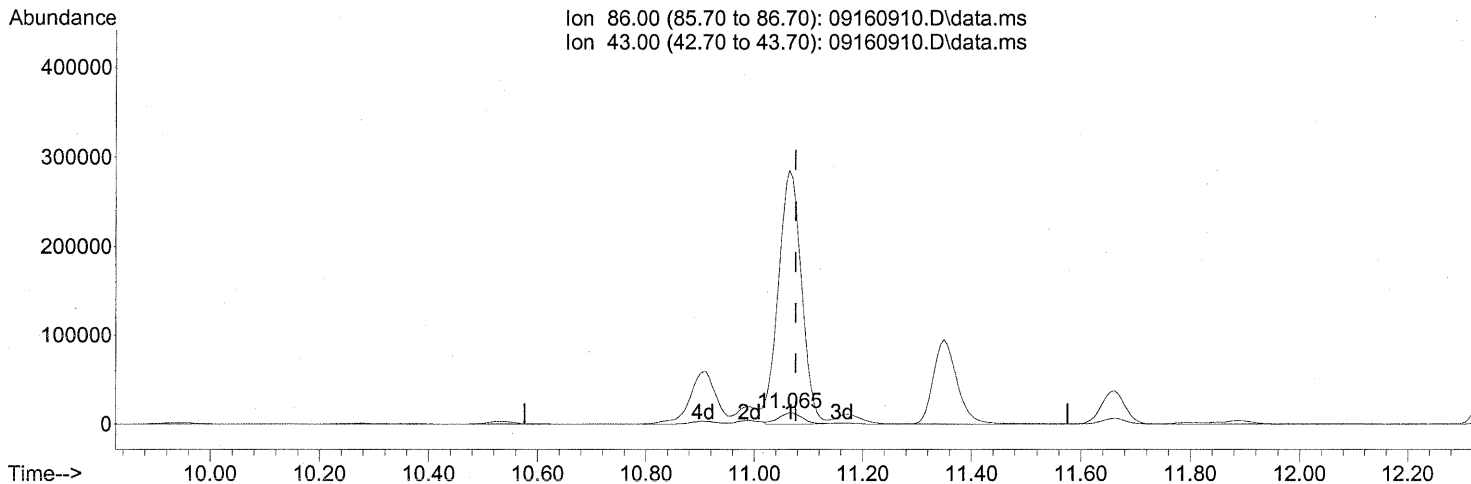
Ion	Exp%	Act%
73.10	100	100
57.10	22.60	33.01
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.065min (-0.011) 12.35ng
 response 37748

FP in 9/18/09

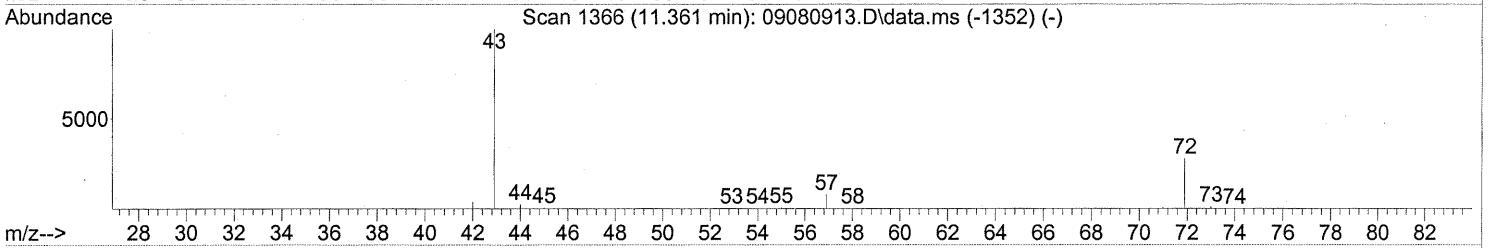
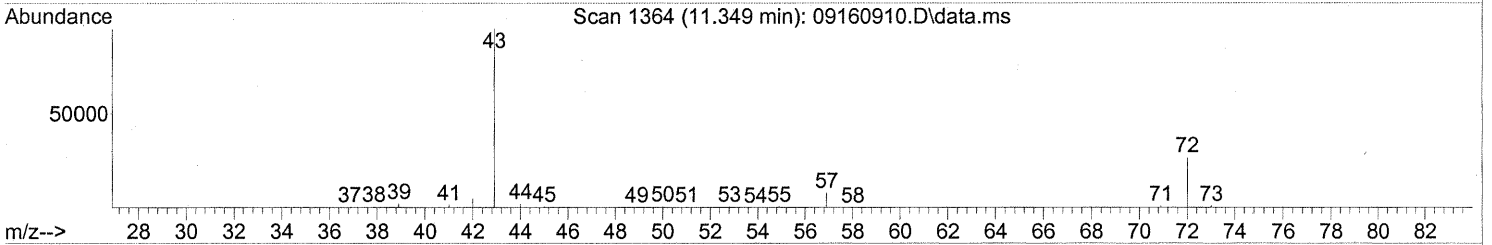
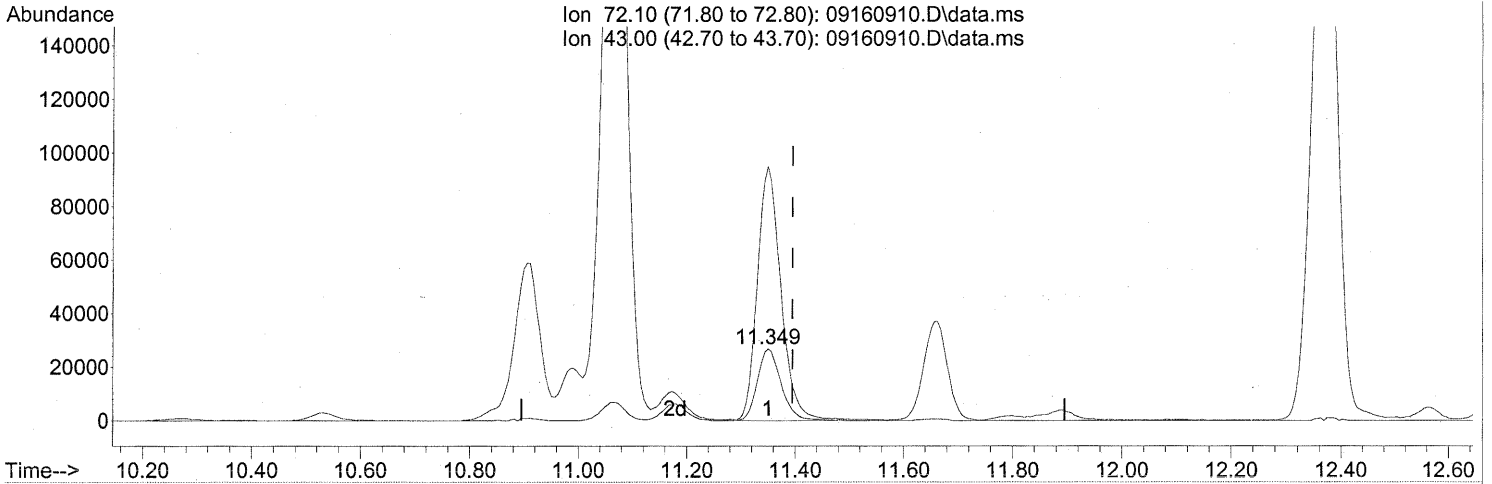
Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2263.09#
0.00	0.00	0.00
0.00	0.00	0.00

PA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(27) 2-Butanone (MEK) (T)

11.349min (-0.046) 8.30ng

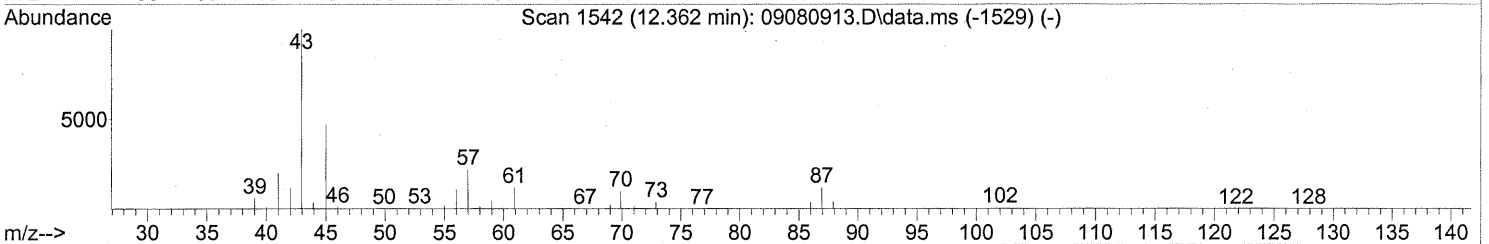
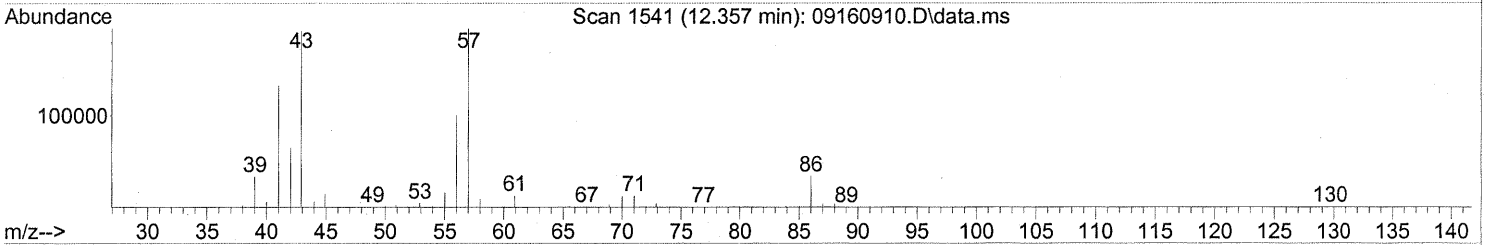
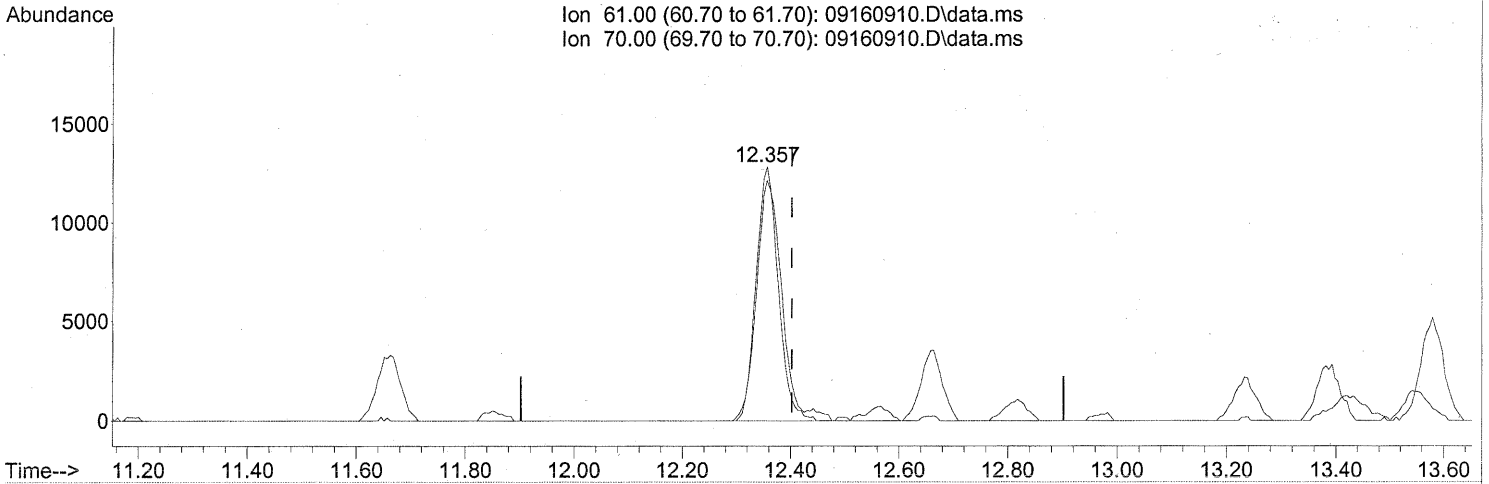
response 80995

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	351.93#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160910.D
Acq On : 16 Sep 2009 14:53
Operator : LH
Sample : P0903145-007 (500mL)
Misc : Environmental H & E 102716
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



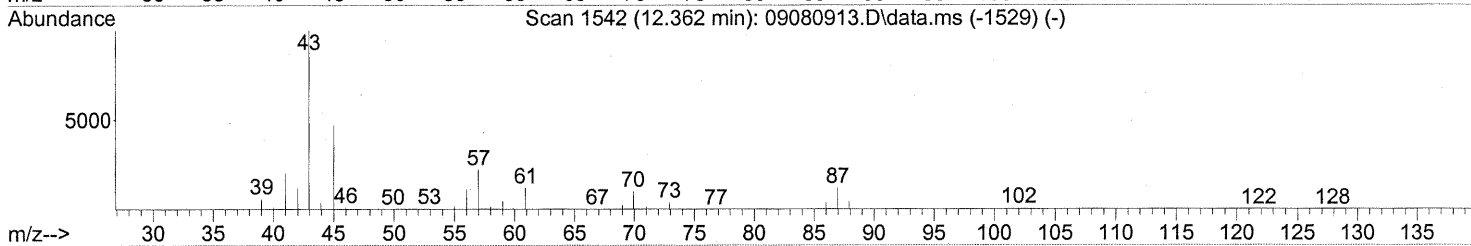
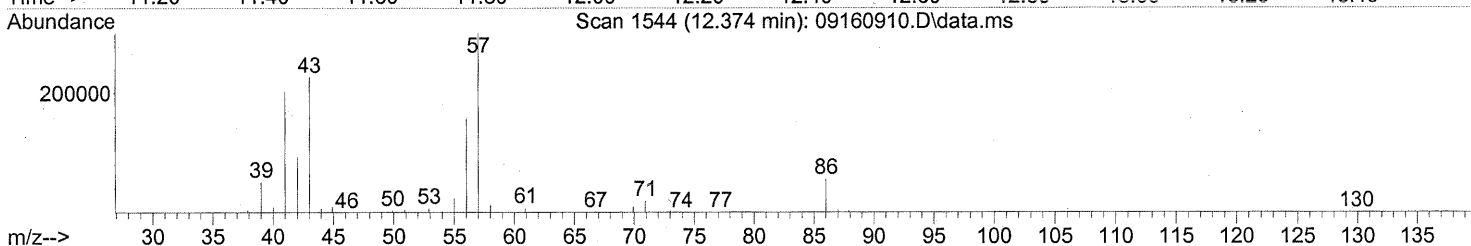
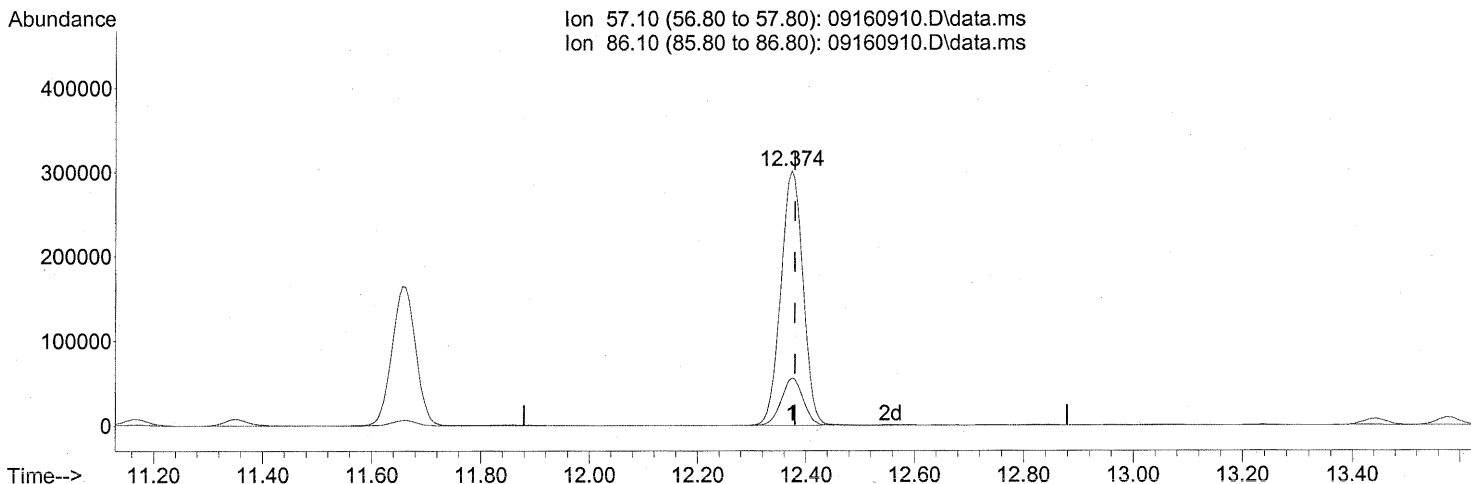
(30) Ethyl Acetate (T)
12.357min (-0.046) 7.36ng
response 36460

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	108.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(31) n-Hexane (T)

12.374min (-0.006) 43.80ng

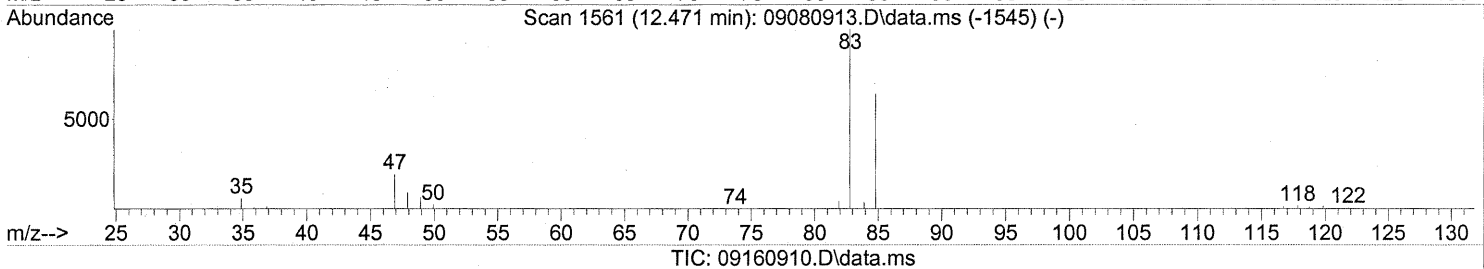
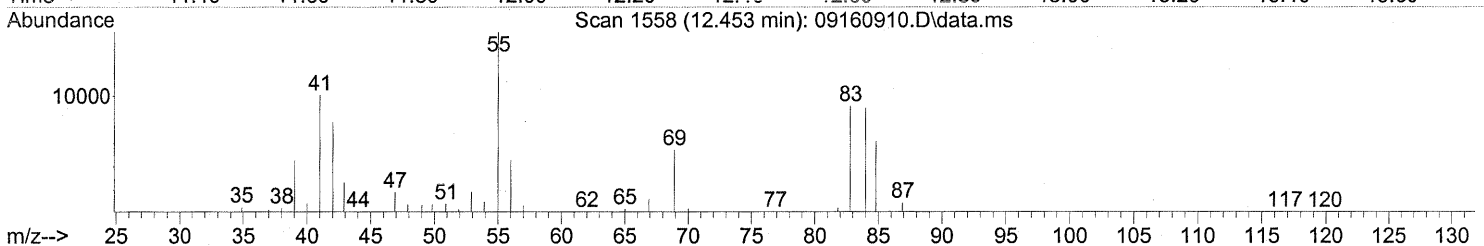
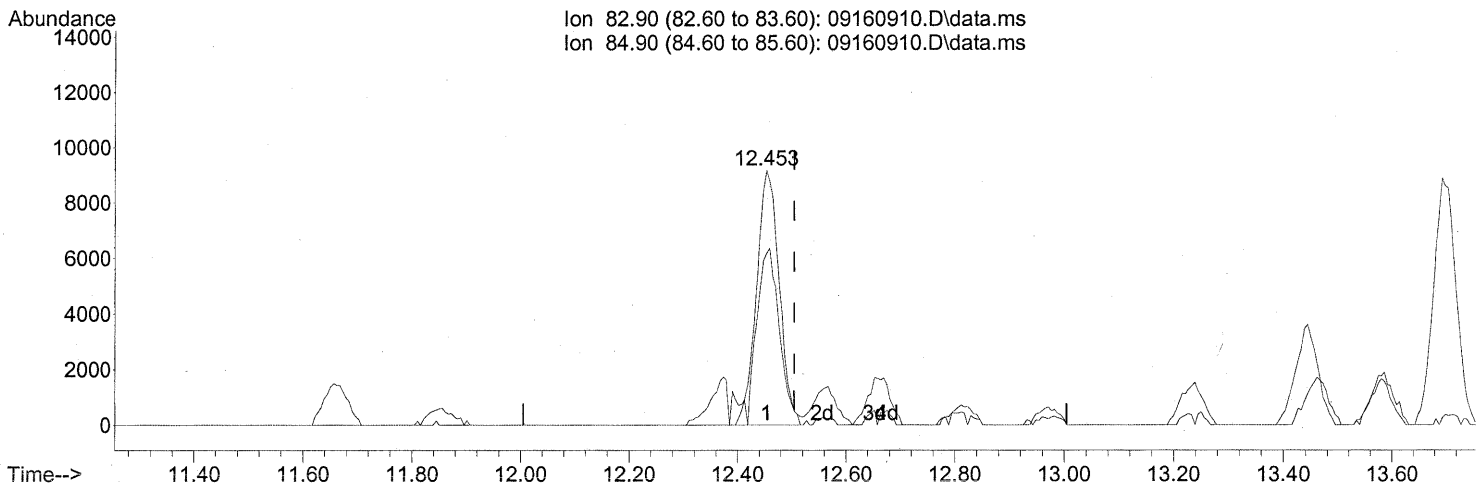
response 858975

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	18.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.453min (-0.051) 1.11ng

response 26698

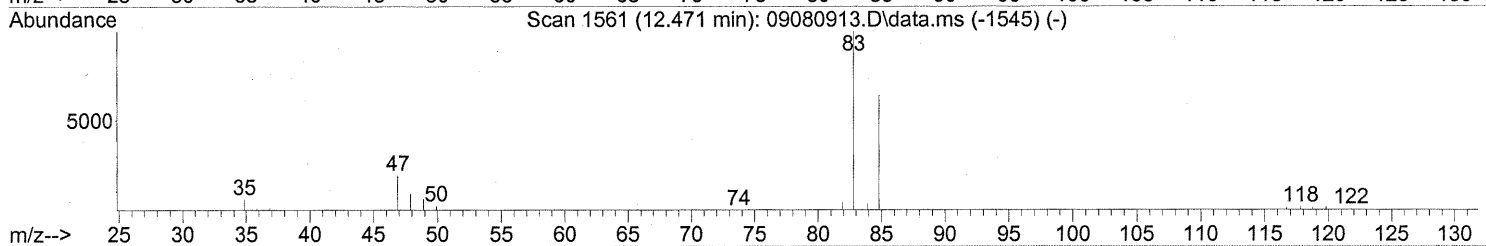
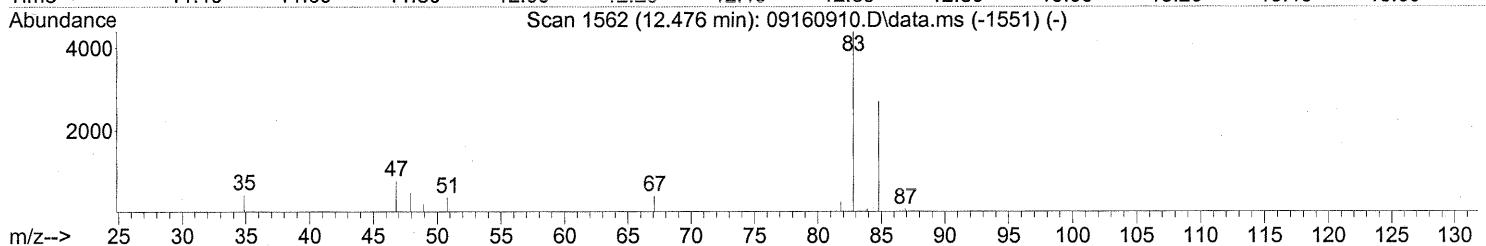
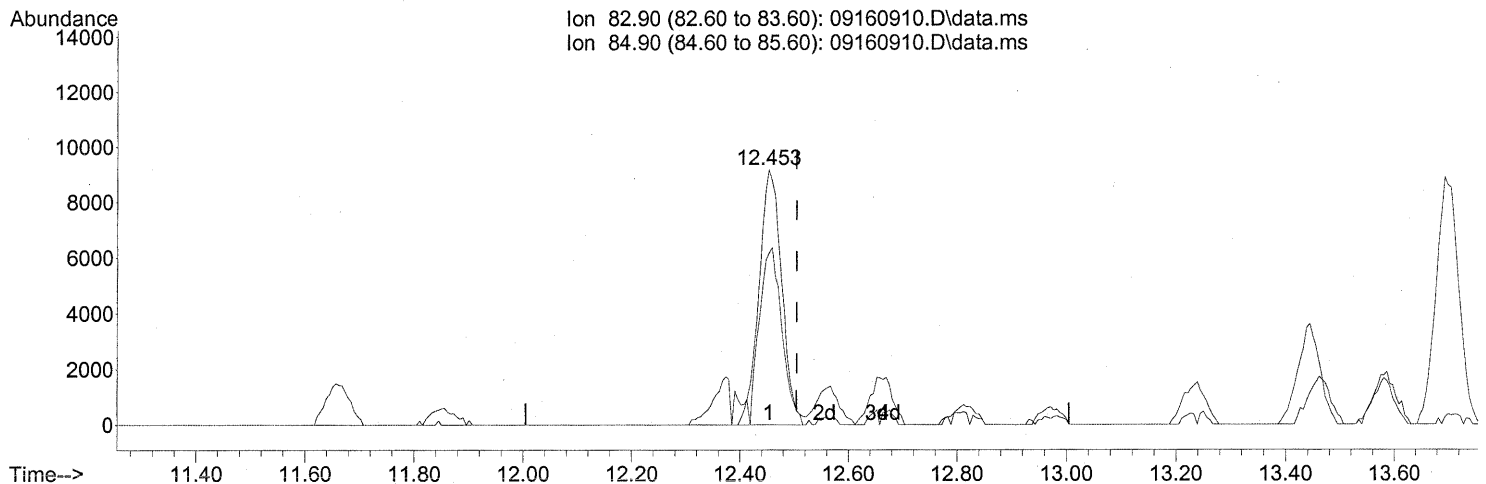
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	69.17
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(32) Chloroform (T)
 12.453min (-0.051) 1.11ng
 response 26698

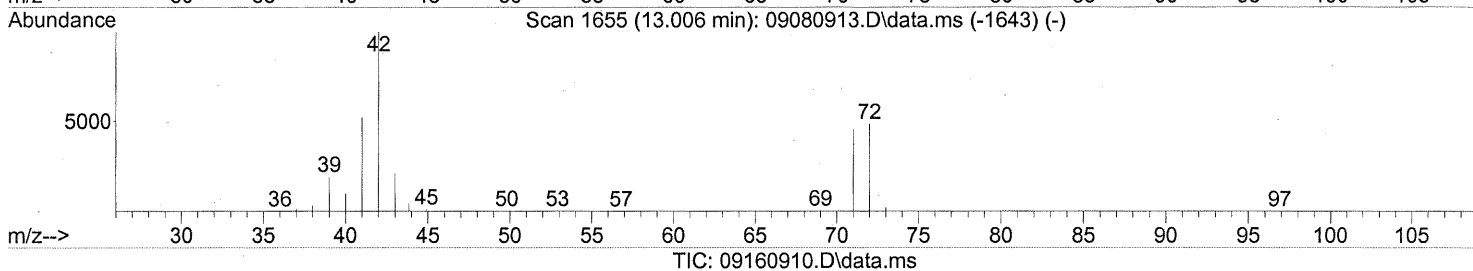
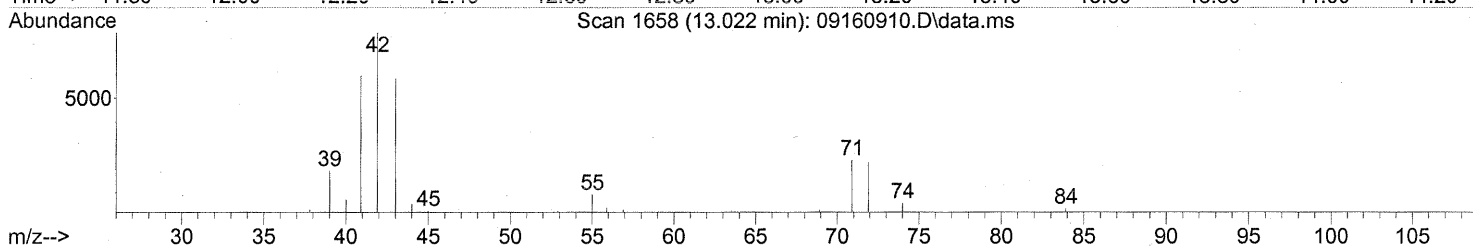
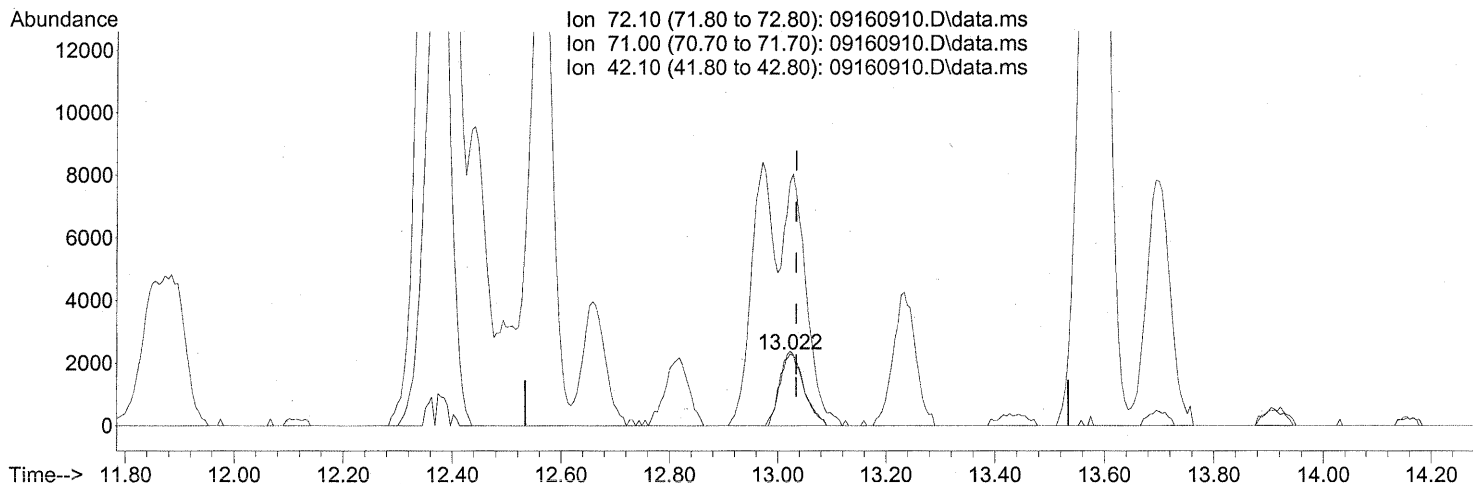
Ion	Exp%	Act%
82.90	100	100
84.90	65.00	69.17
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.022min (-0.011) 0.80ng

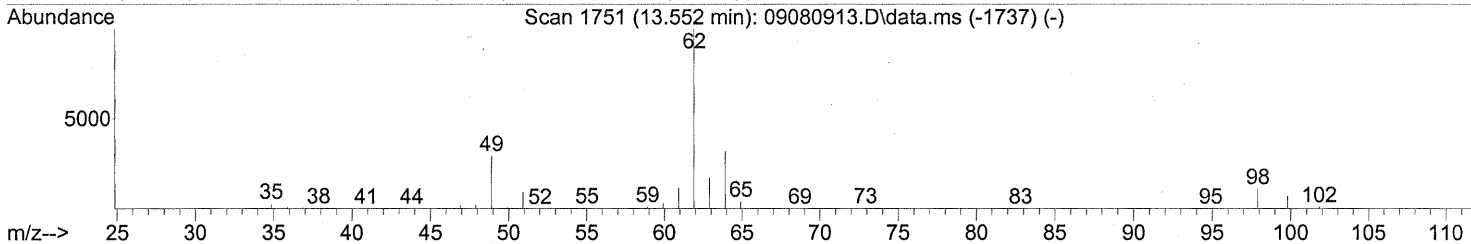
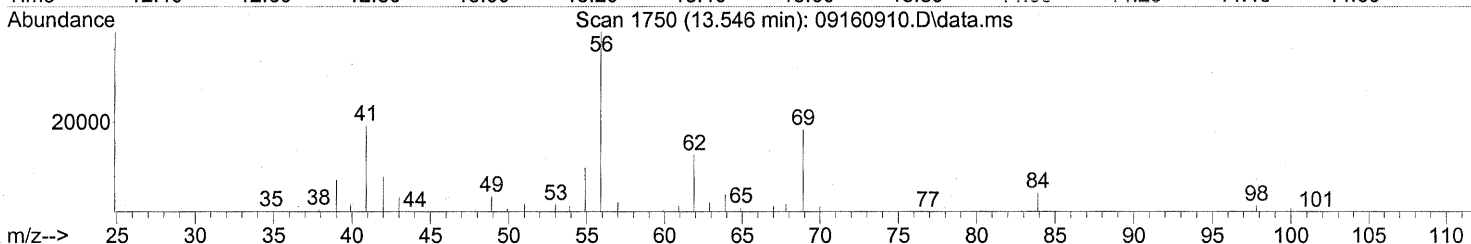
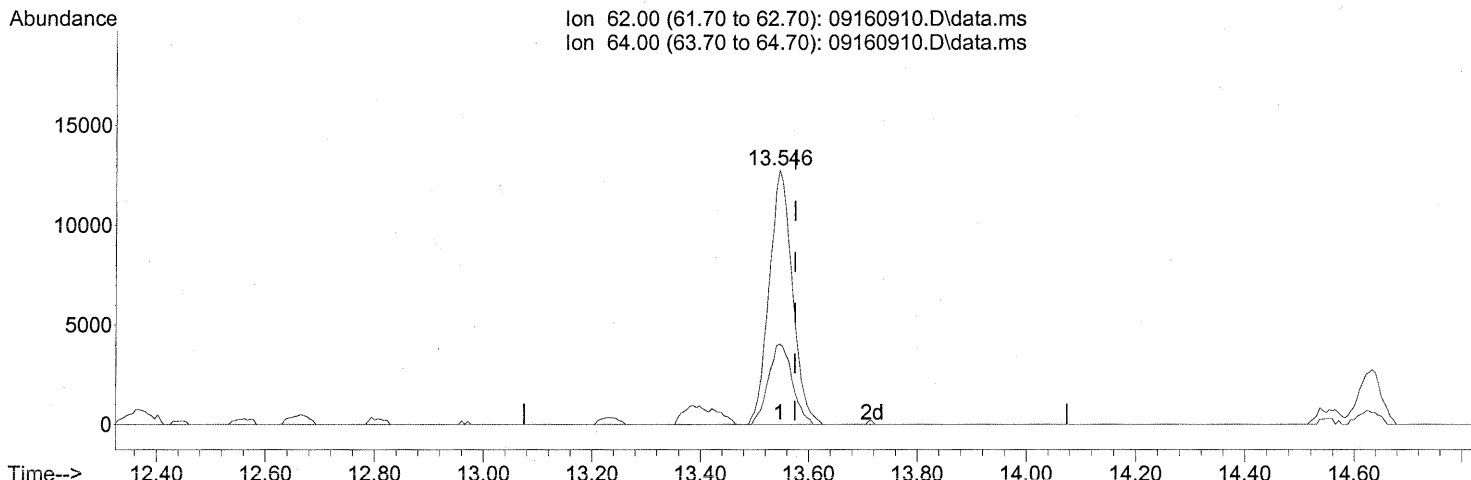
response 7203

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	100.93
42.10	240.00	313.34#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.029) 2.29ng

response 38048

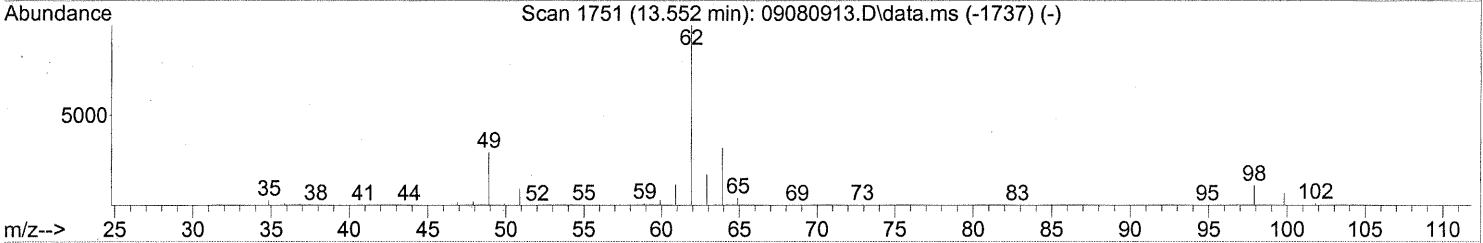
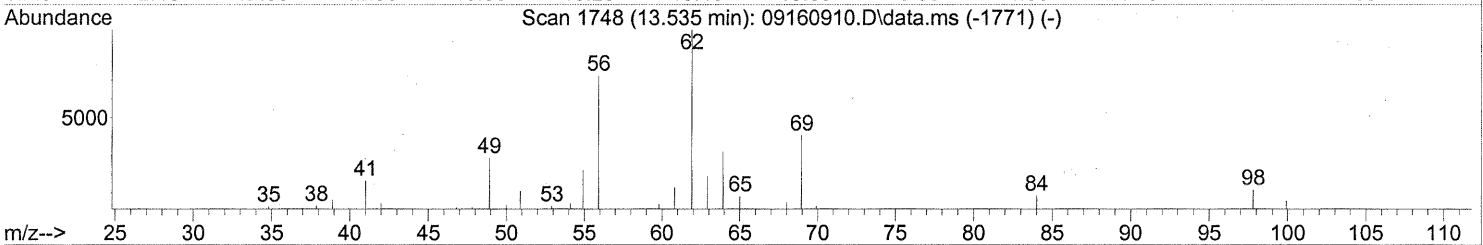
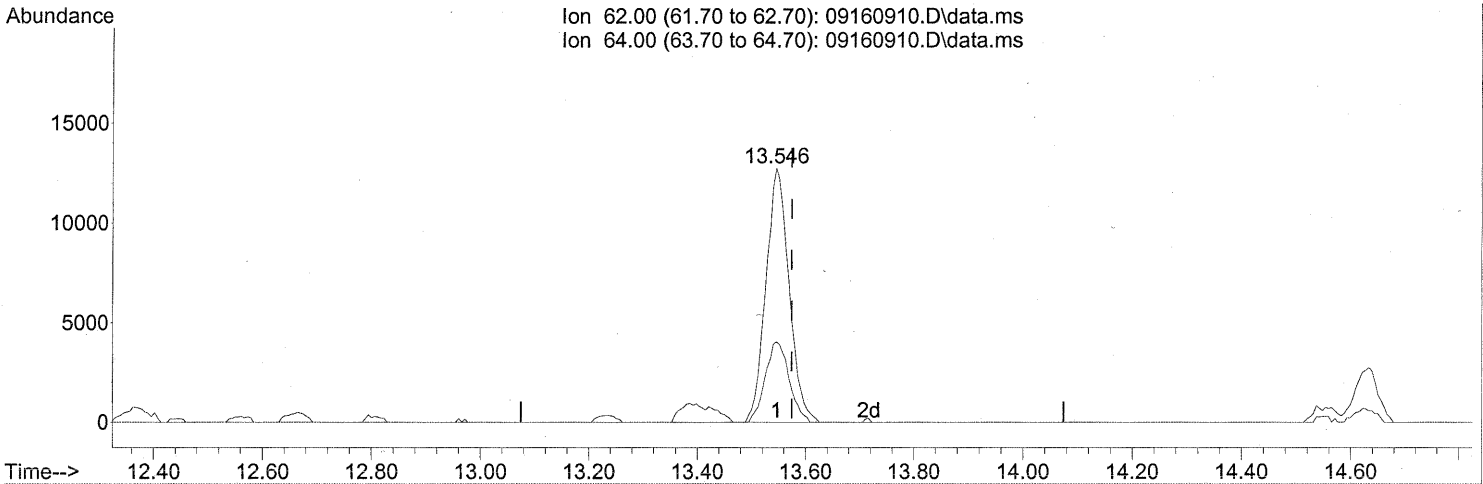
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.68
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.029) 2.29ng

response 38048

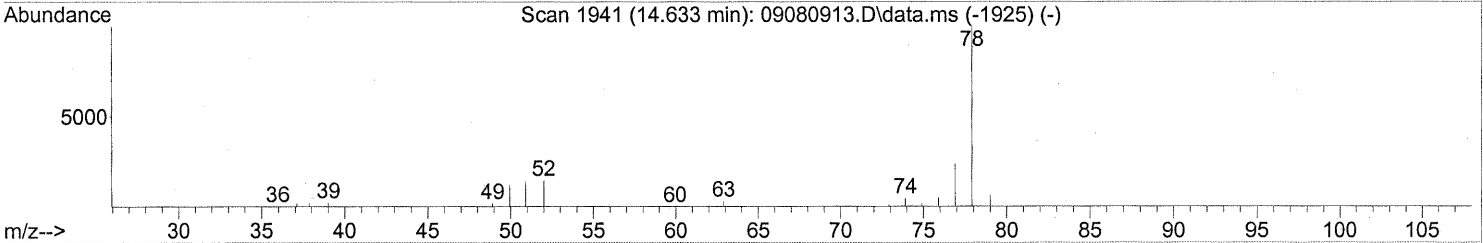
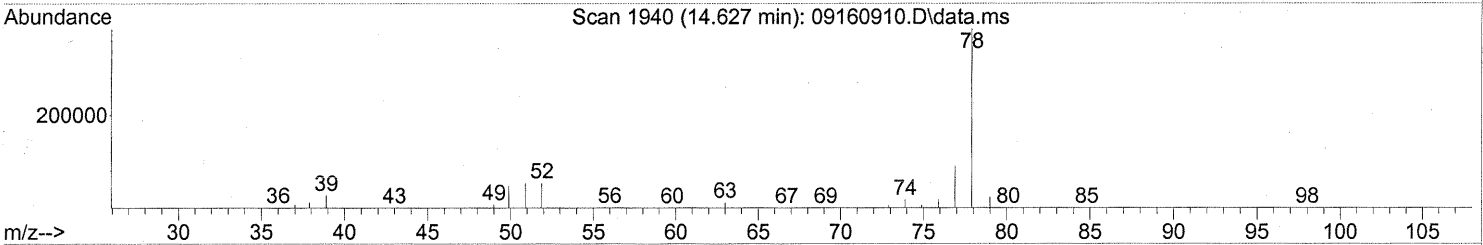
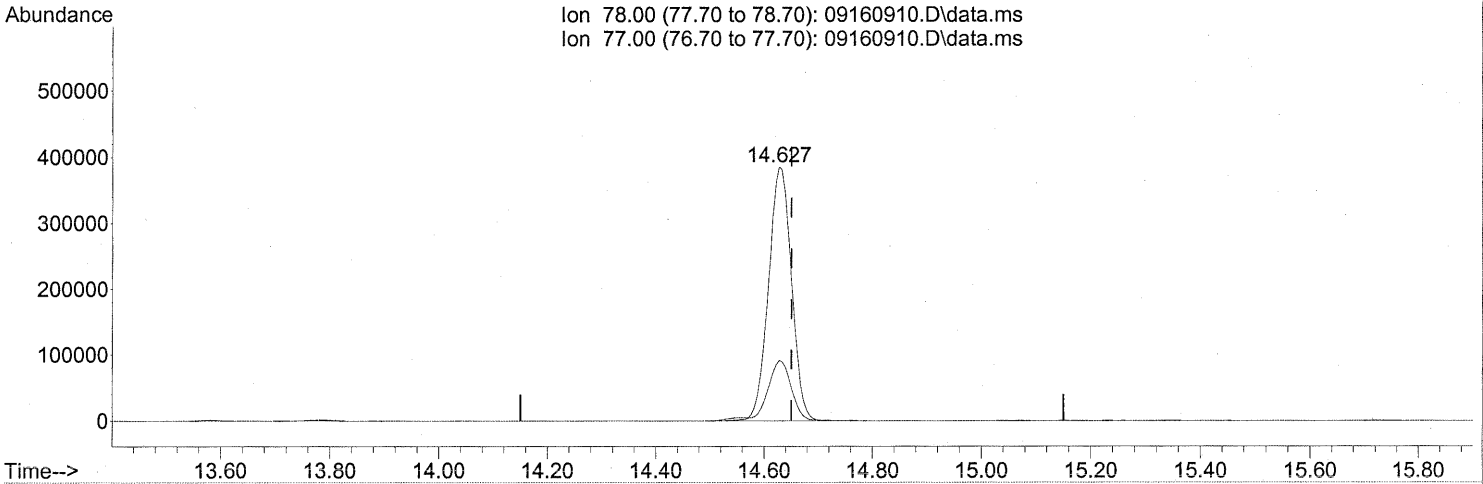
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.68
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.627min (-0.023) 19.62ng

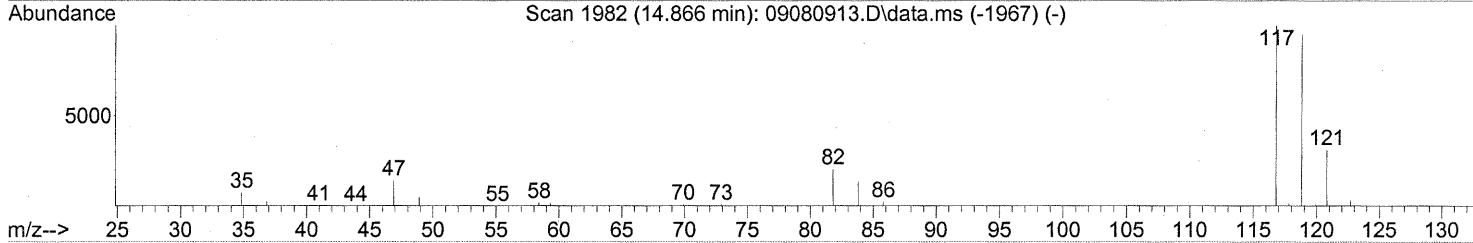
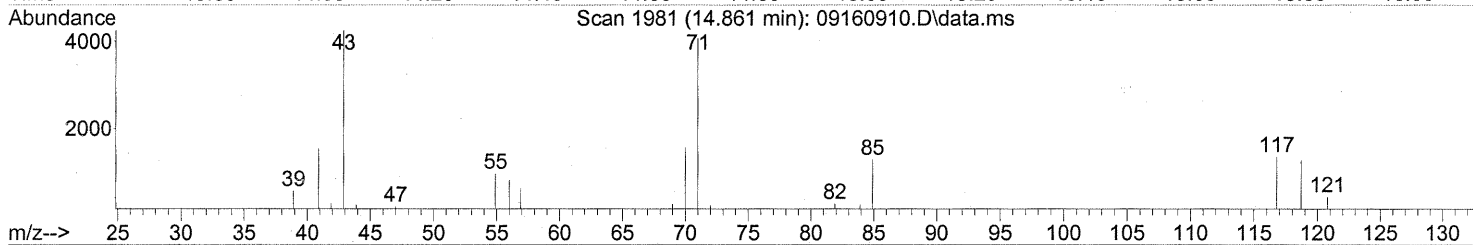
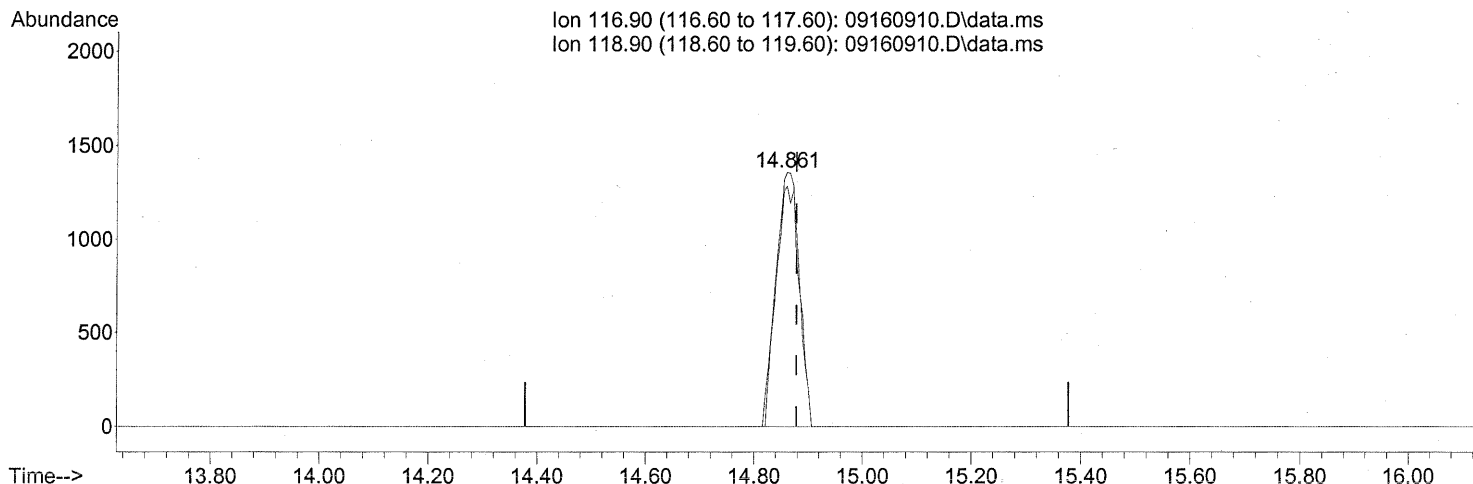
response 1136435

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.23ng

response 4040

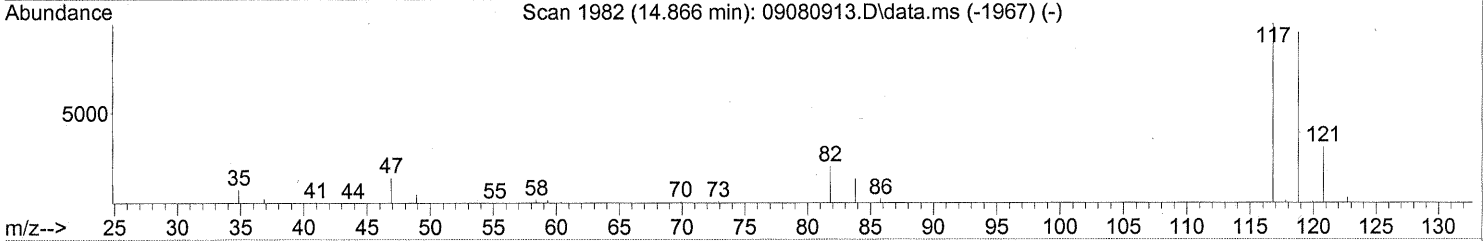
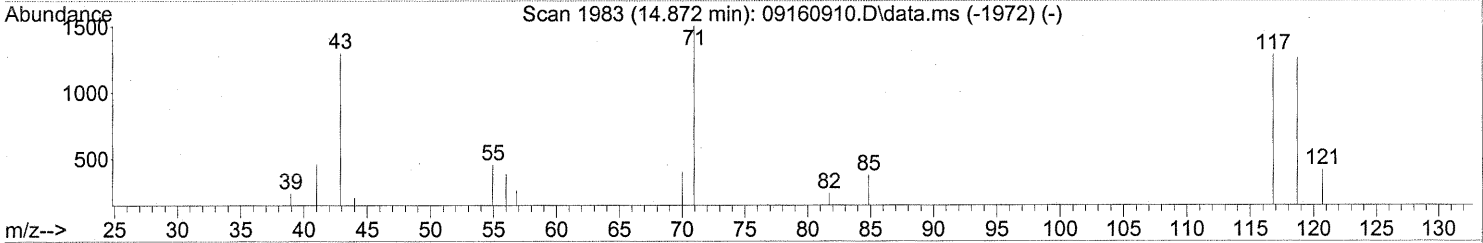
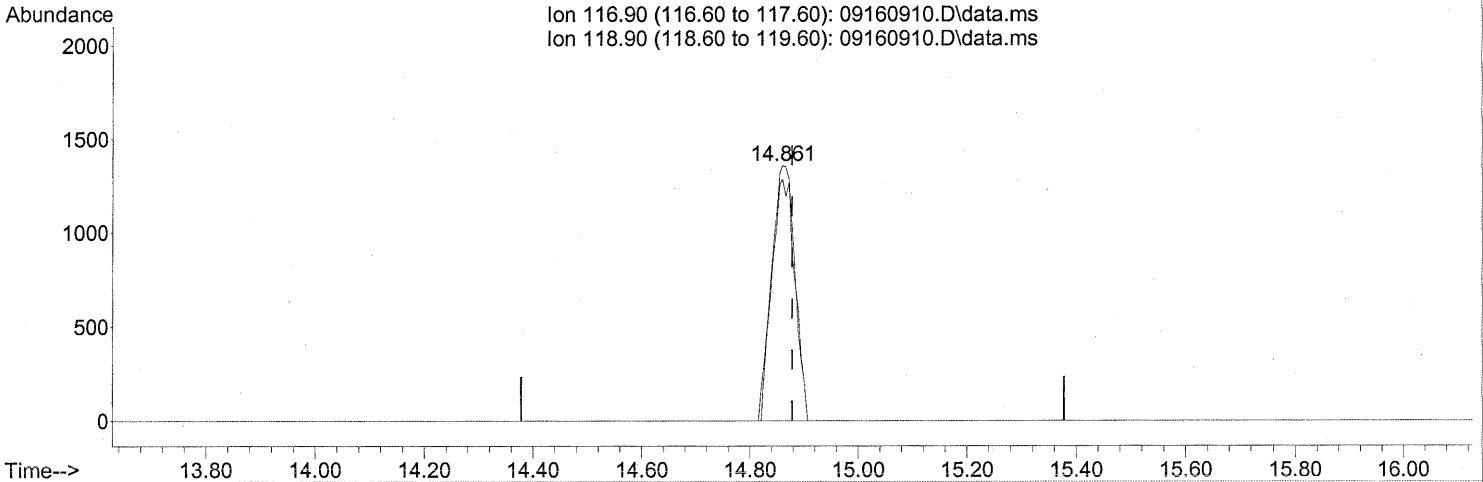
Ion	Exp%	Act%
116.90	100	100
118.90	97.90	94.21
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.23ng

response 4040

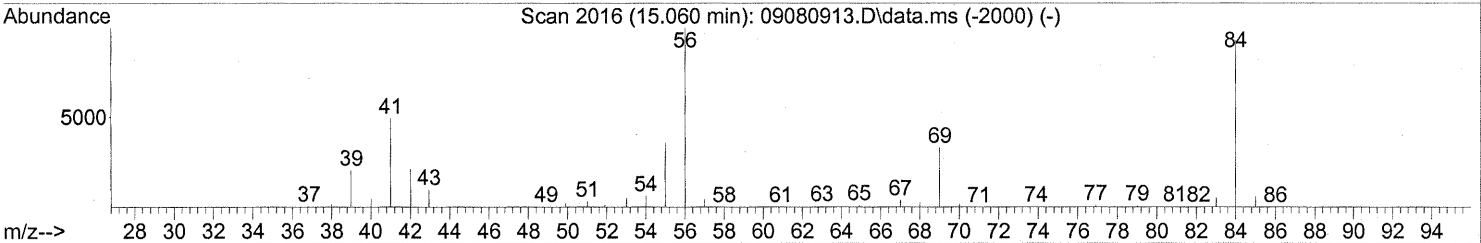
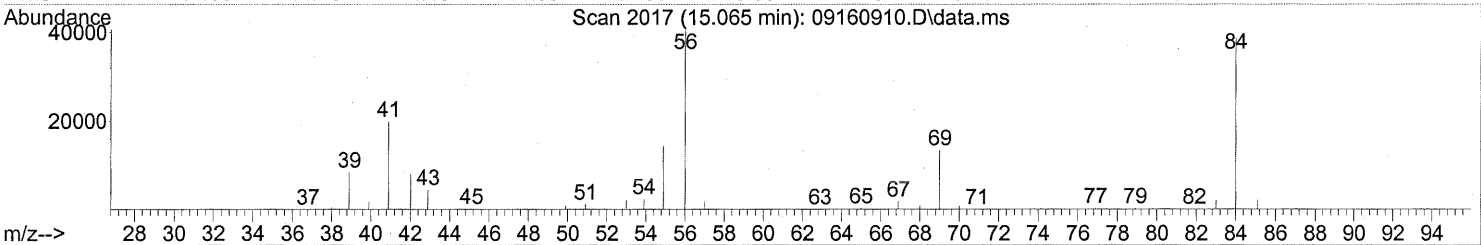
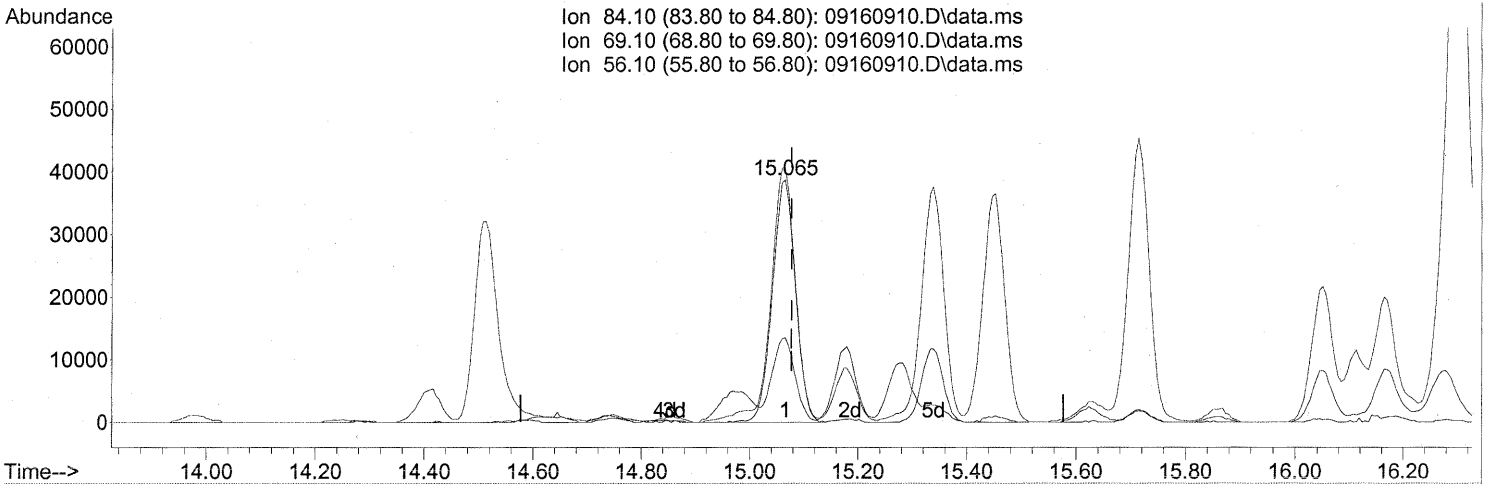
Ion	Exp%	Act%
116.90	100	100
118.90	97.90	94.21
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

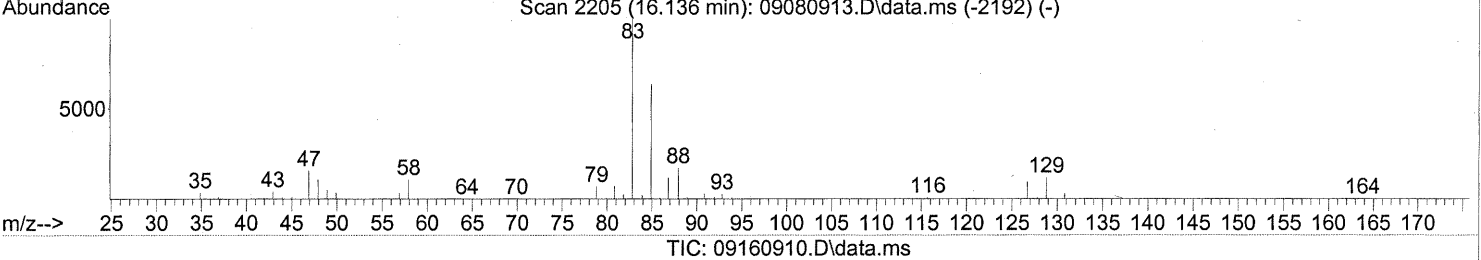
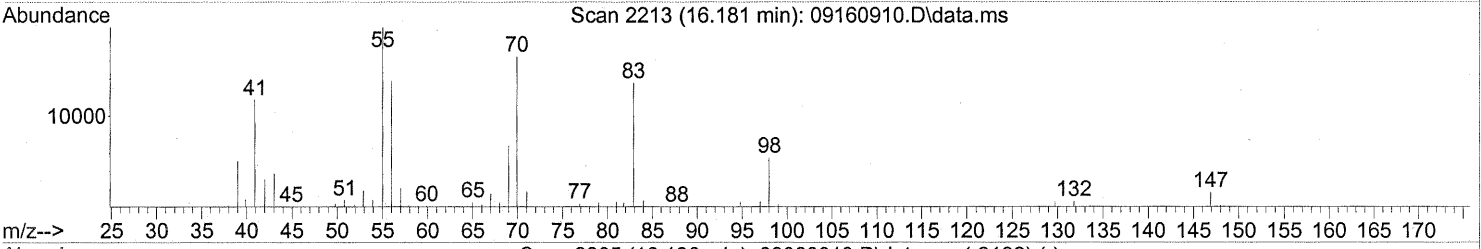
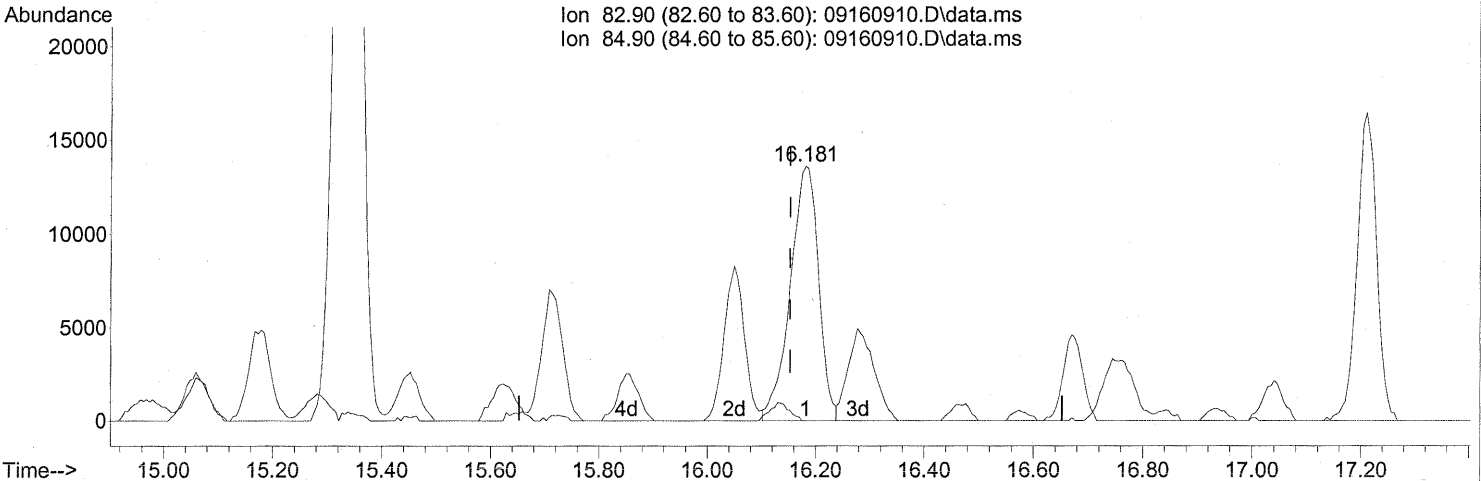
(43) Cyclohexane (T)
 15.065min (-0.011) 5.42ng
 response 114498

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	34.20
56.10	124.60	113.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.181min (+0.028) 2.76ng

response 49537

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

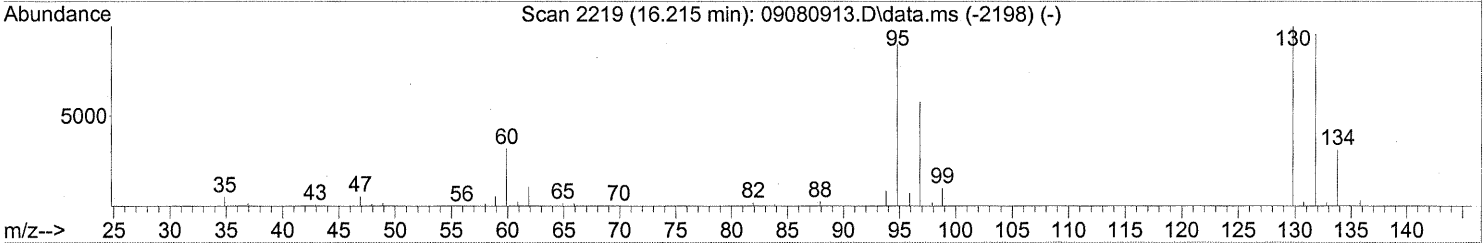
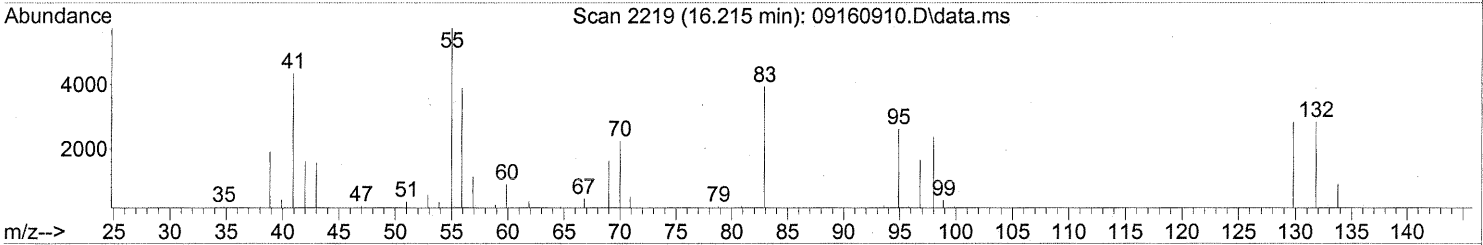
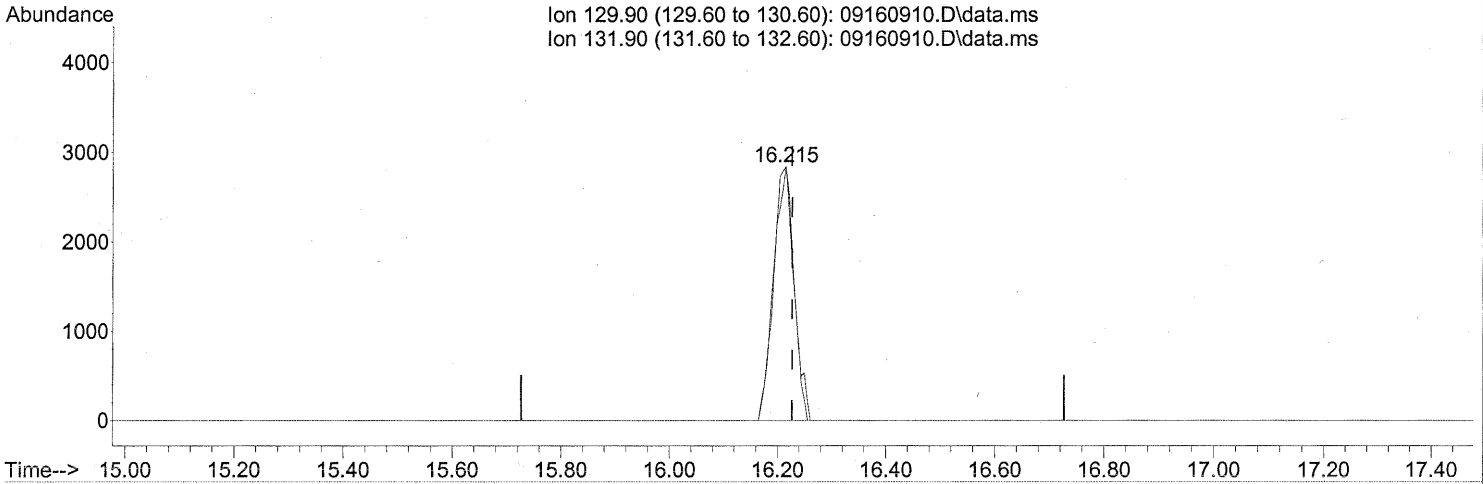
FP in 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(47) Trichloroethene (T)

16.215min (-0.012) 0.43ng

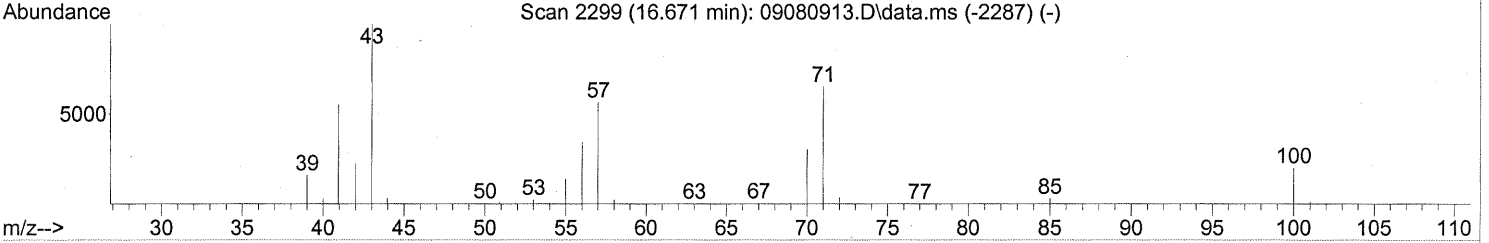
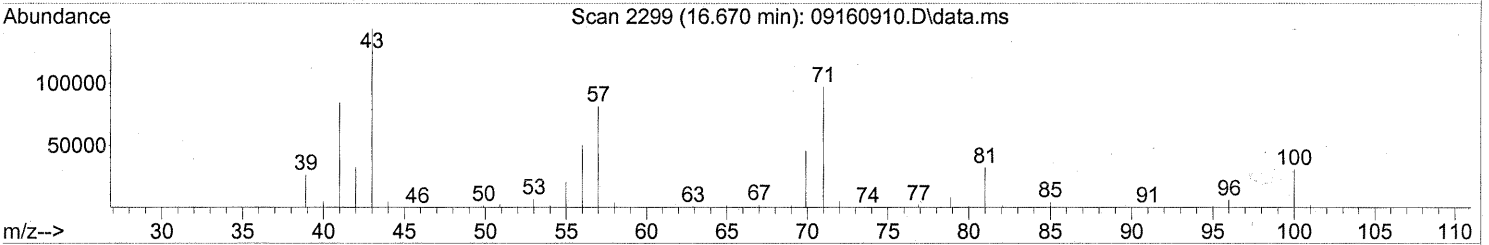
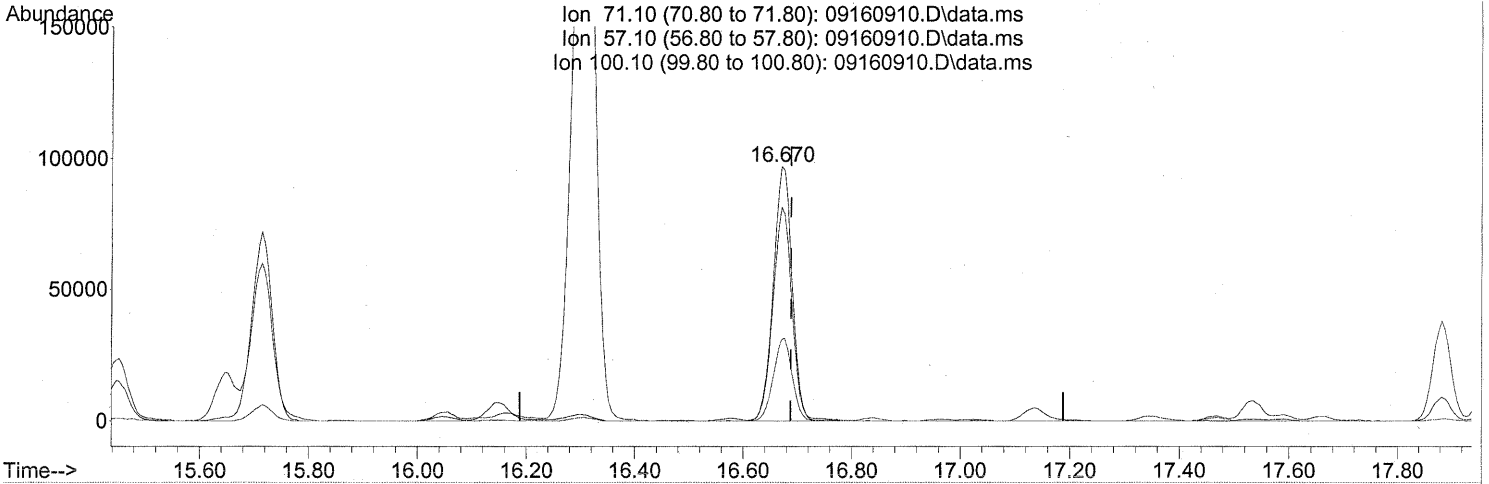
response 7576

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	96.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(51) n-Heptane (T)
 16.670min (-0.017) 15.86ng

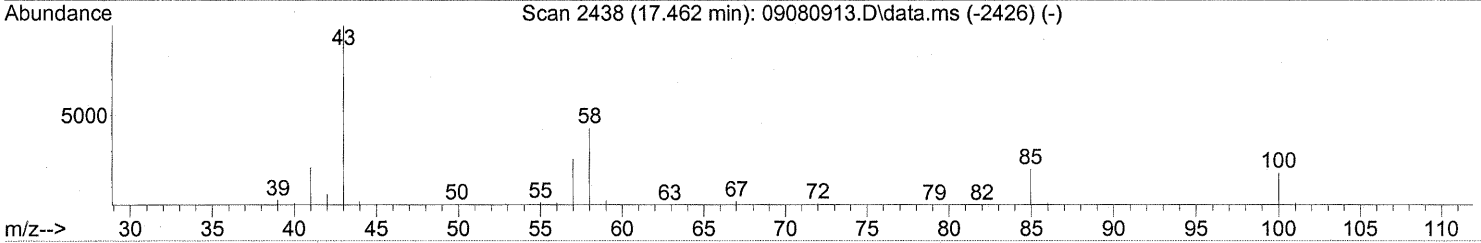
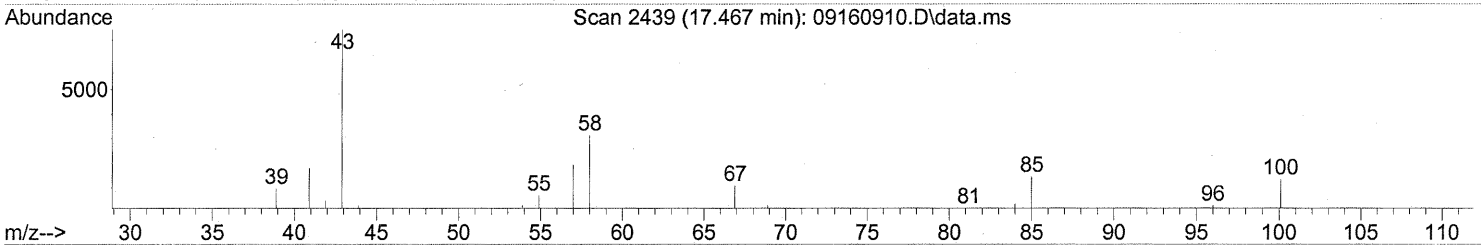
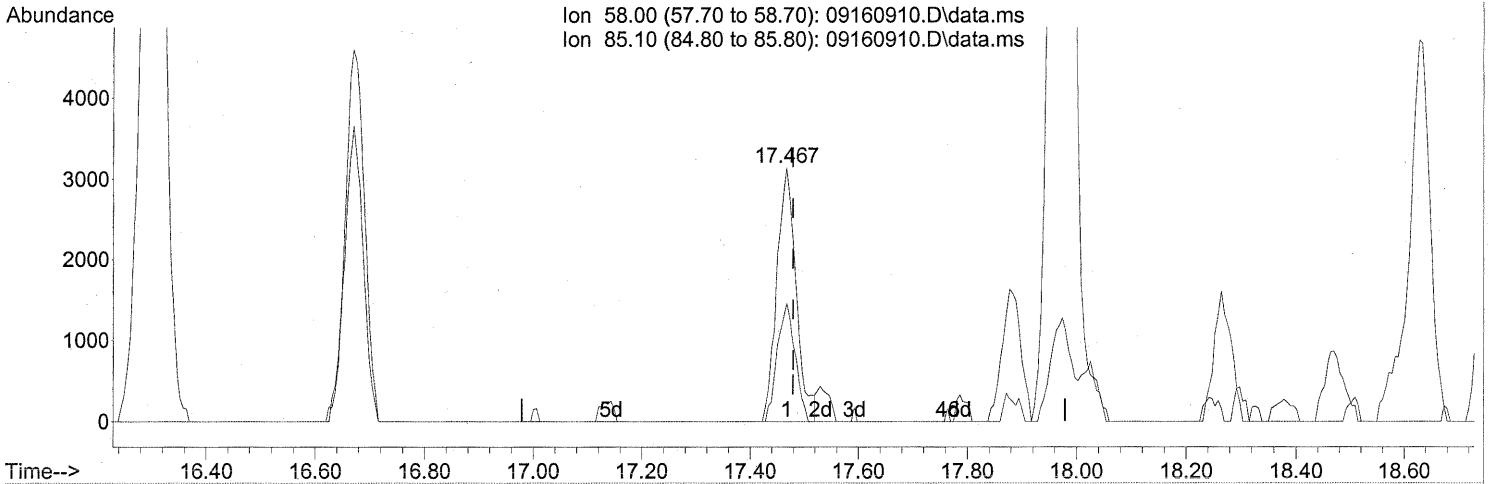
response 234452

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	85.22
100.10	26.80	32.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.467min (-0.012) 0.60ng

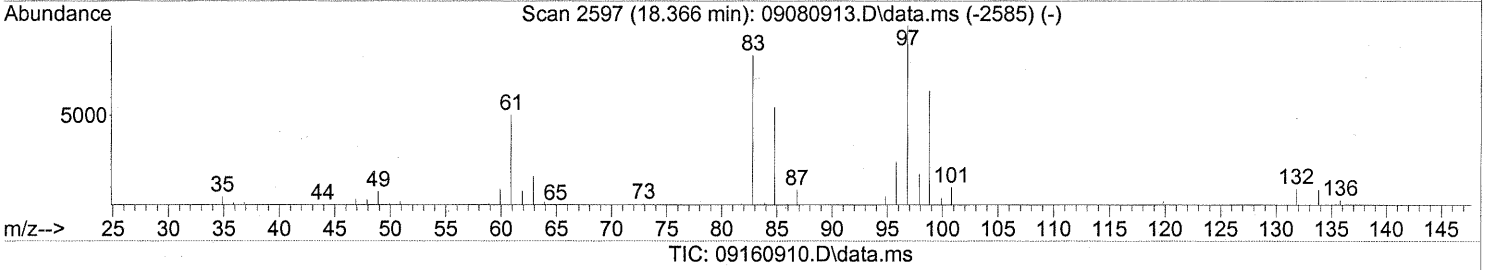
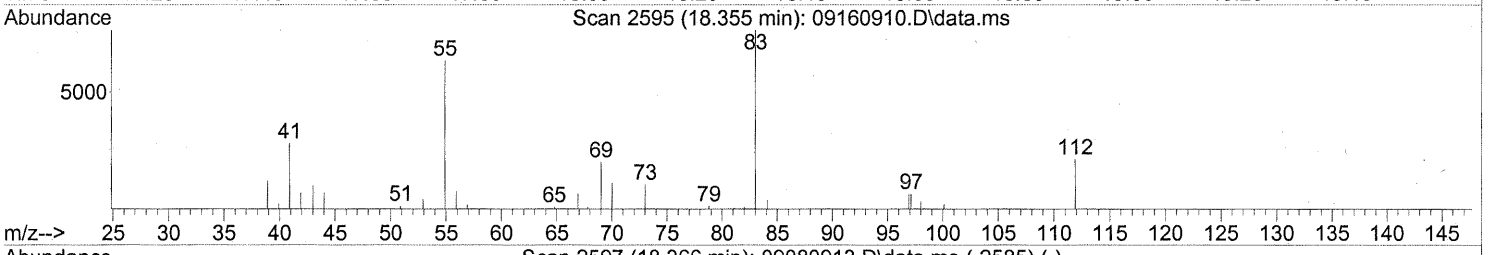
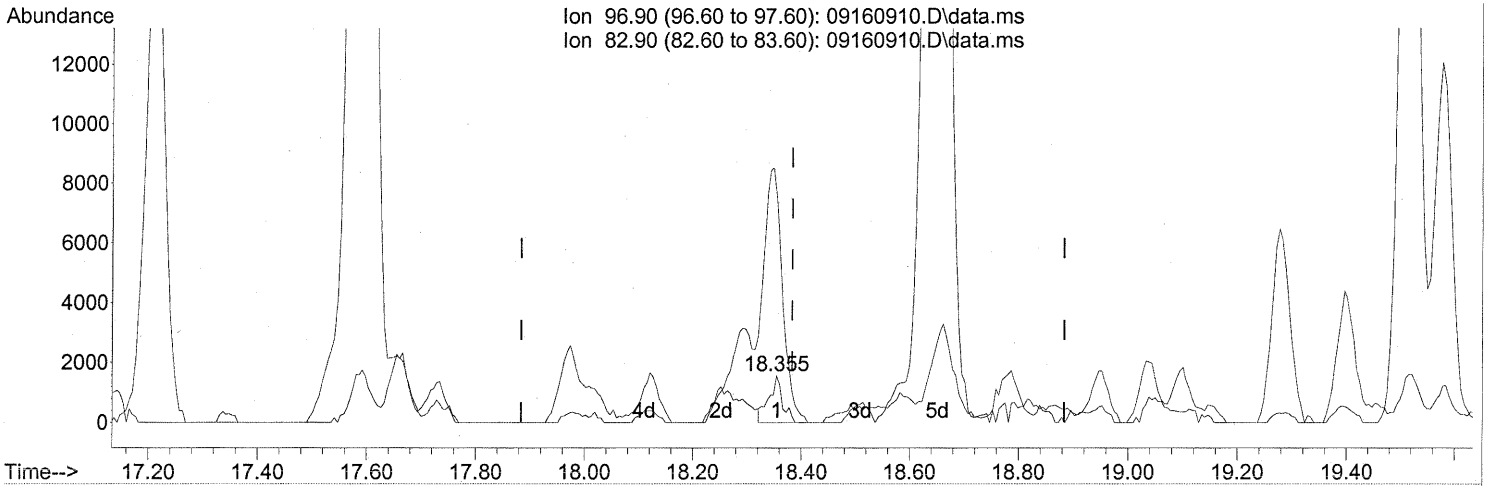
response 7717

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	42.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.355min (-0.029) 0.19ng

response 2718

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	773.62#
0.00	0.00	0.00
0.00	0.00	0.00

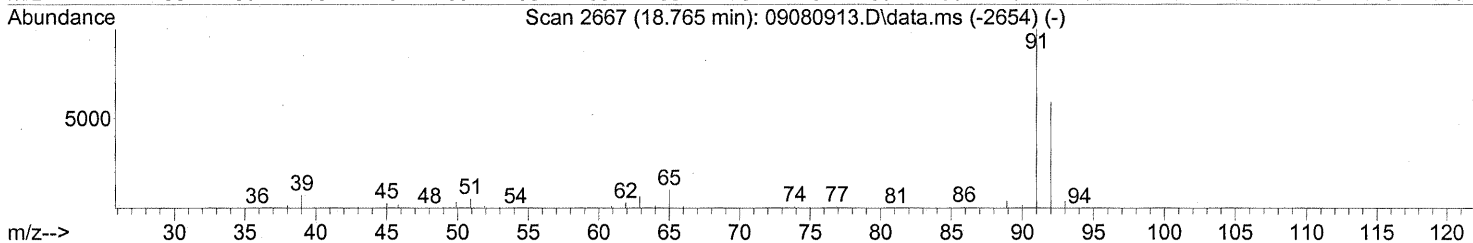
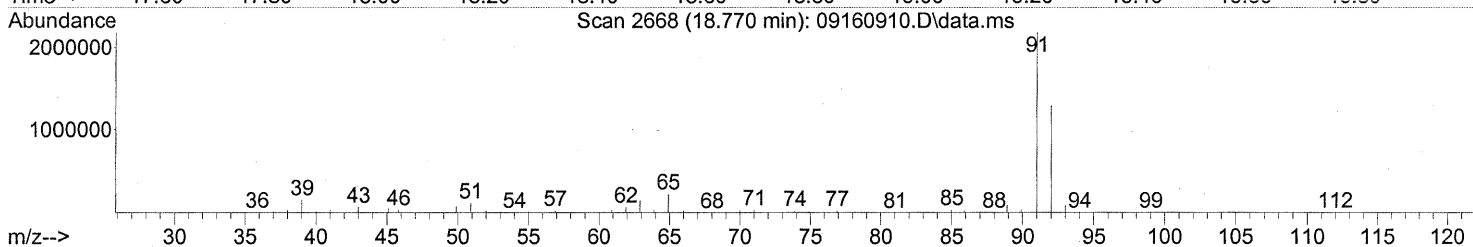
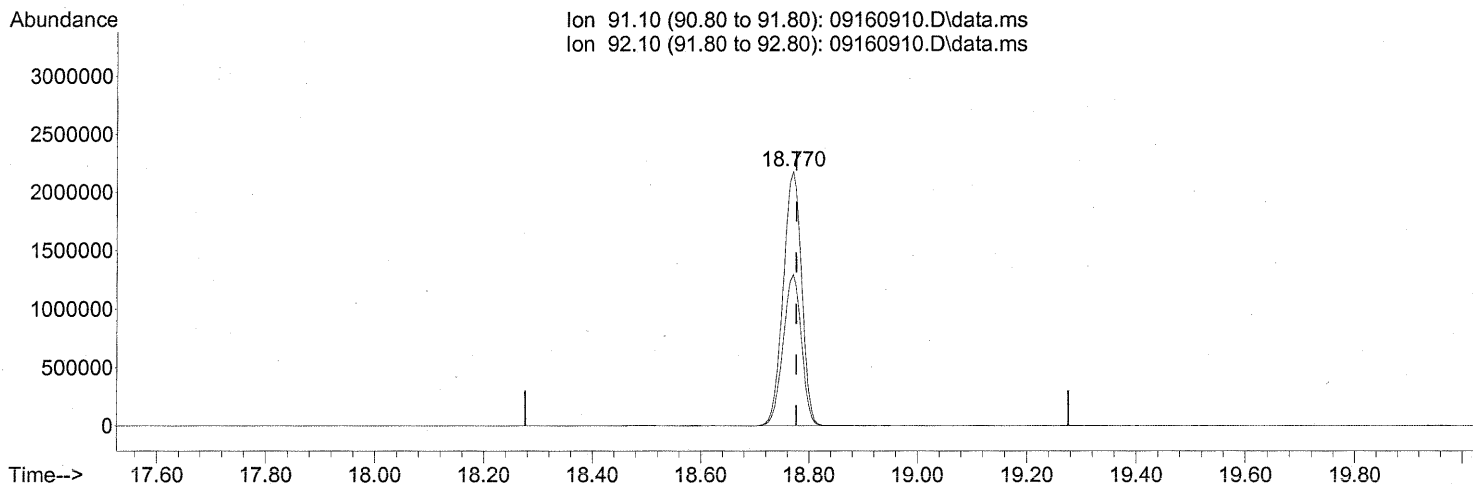
FP LH 9/18/09

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(58) Toluene (T)

18.770min (-0.006) 79.43ng

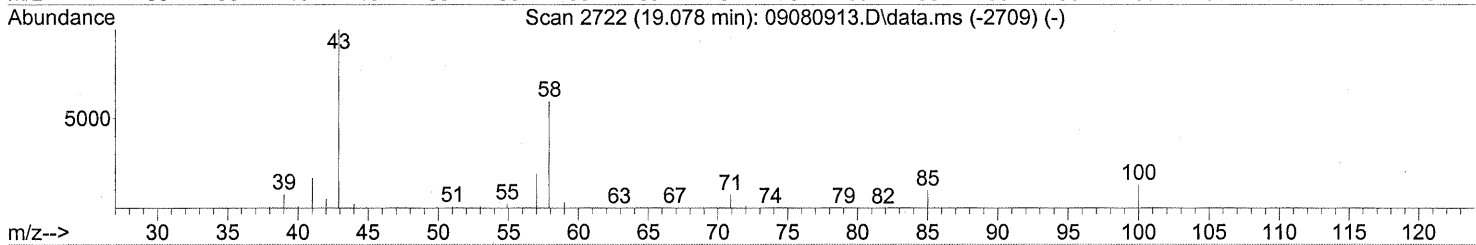
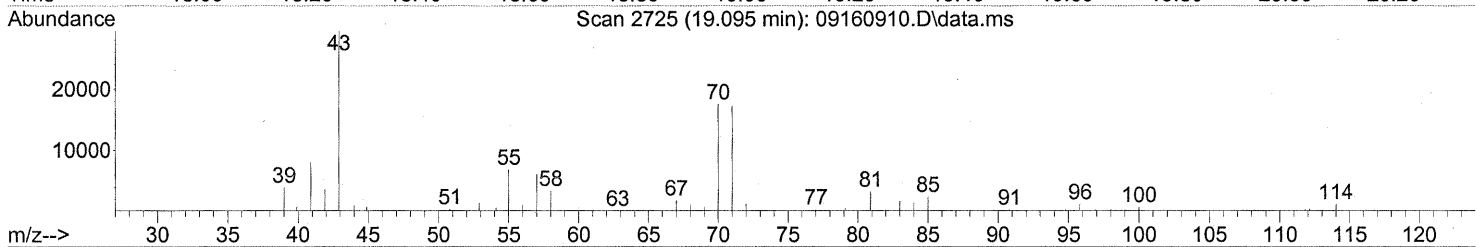
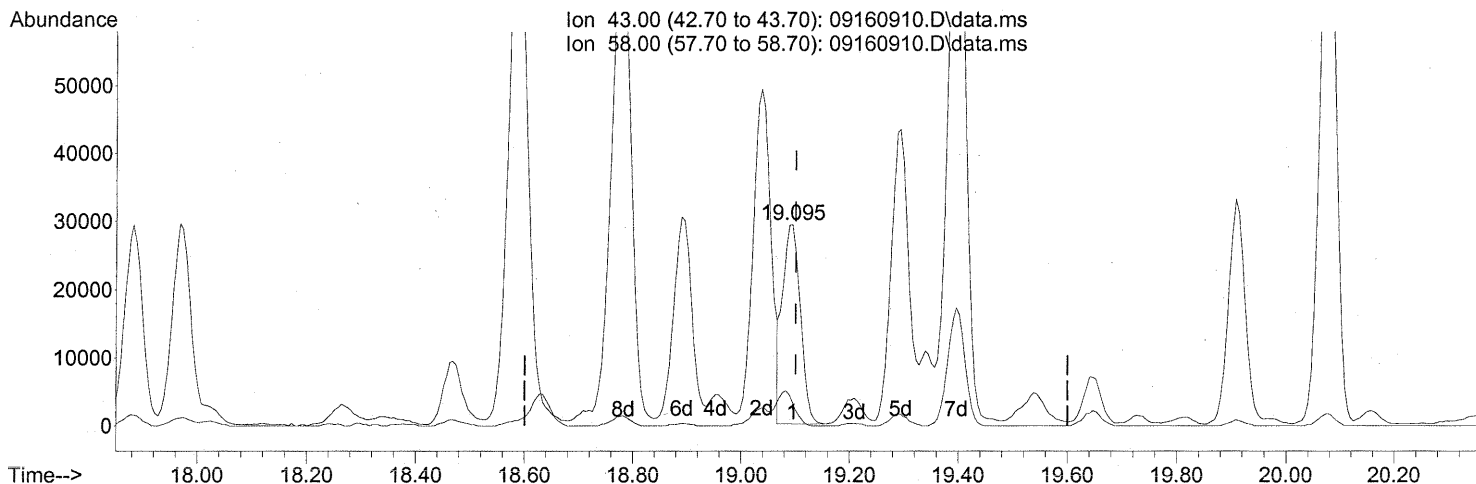
response 5163252

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	59.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.095min (-0.006) 2.12ng
 response 66441

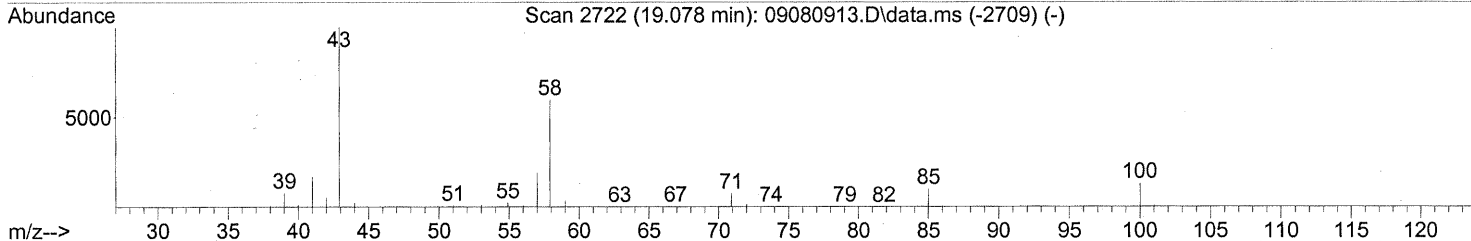
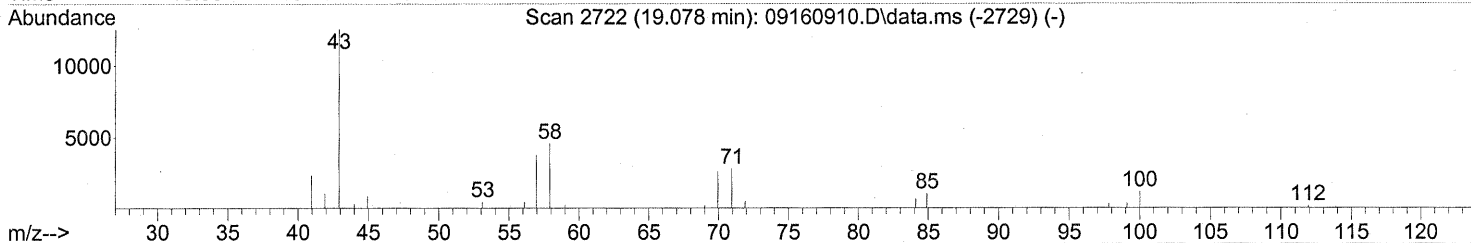
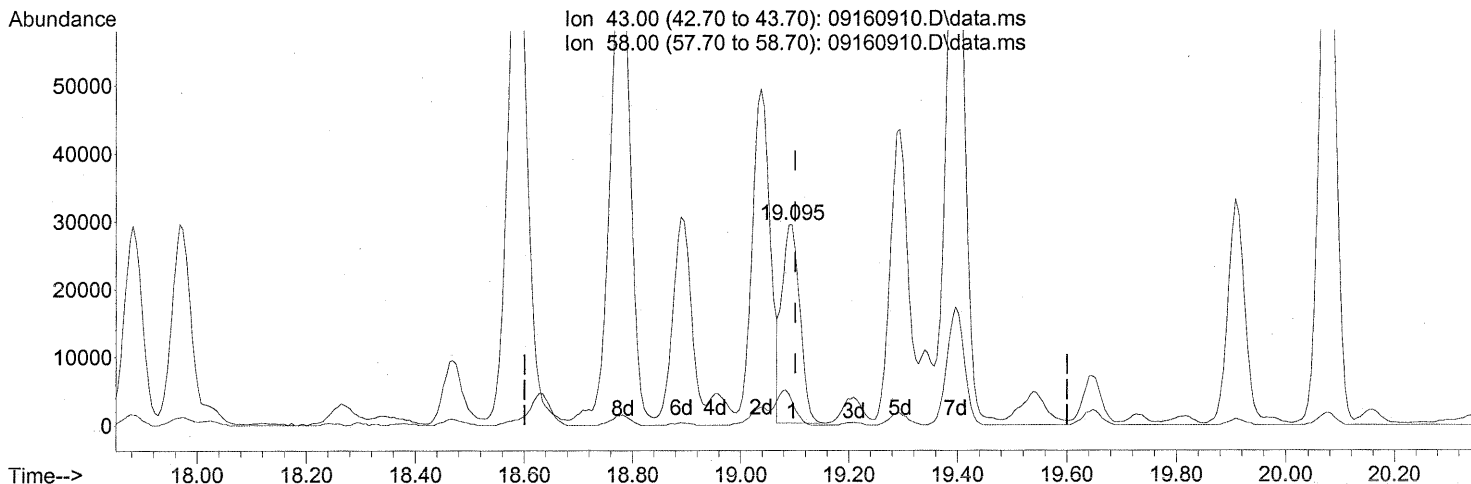
Ion	Exp%	Act%
43.00	100	100
58.00	55.60	17.31#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 18 15:48:58 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(59) 2-Hexanone (T)
 19.095min (-0.006) 2.12ng

response 66441

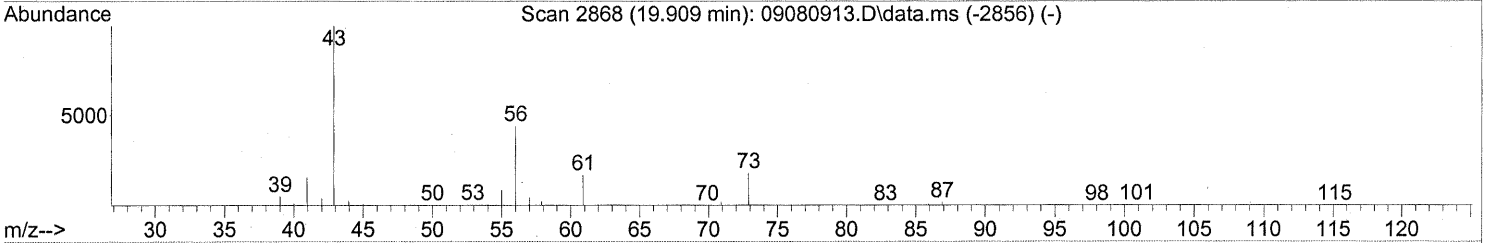
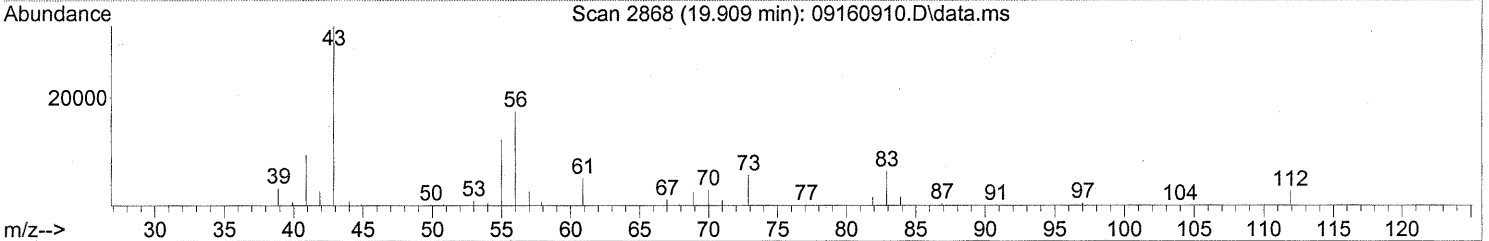
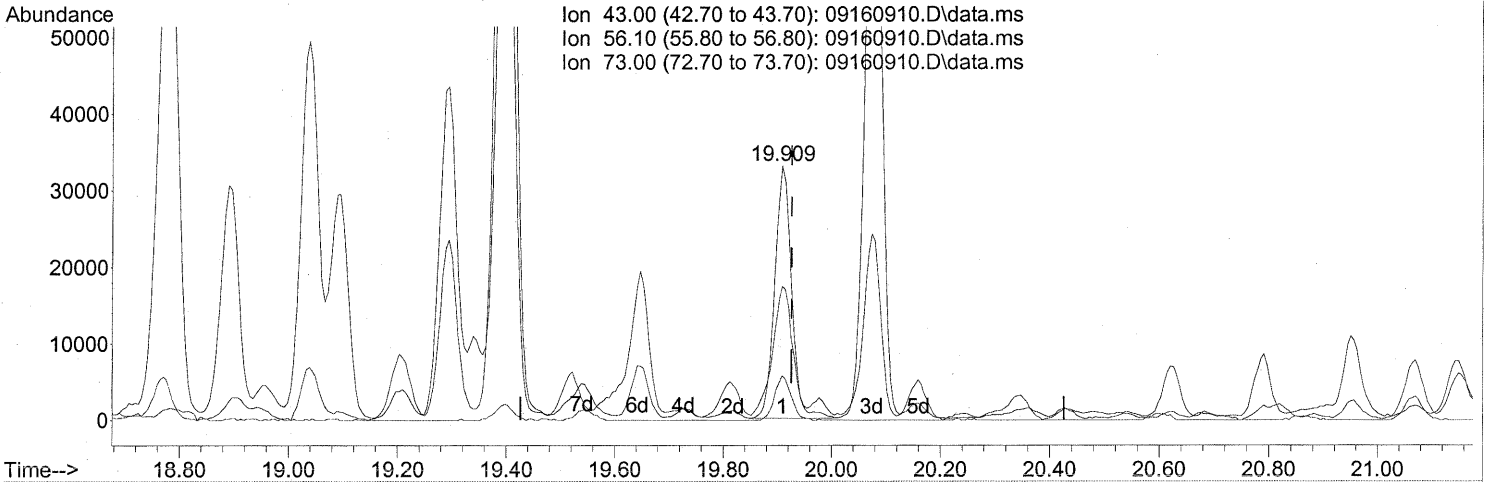
Ion	Exp%	Act%
43.00	100	100
58.00	55.60	17.31#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

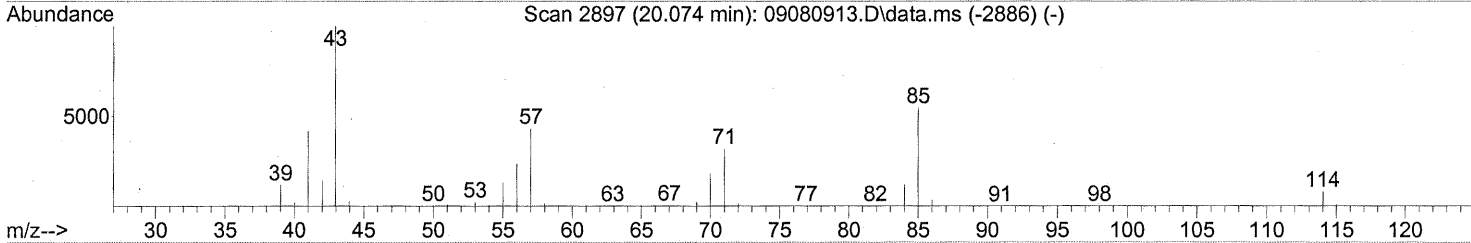
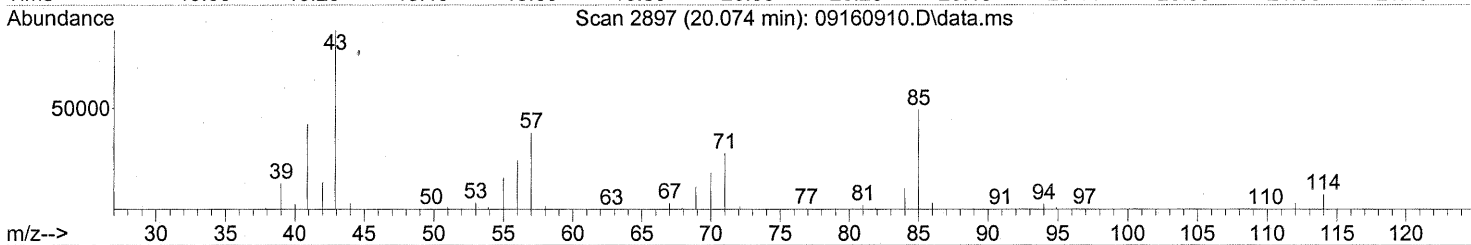
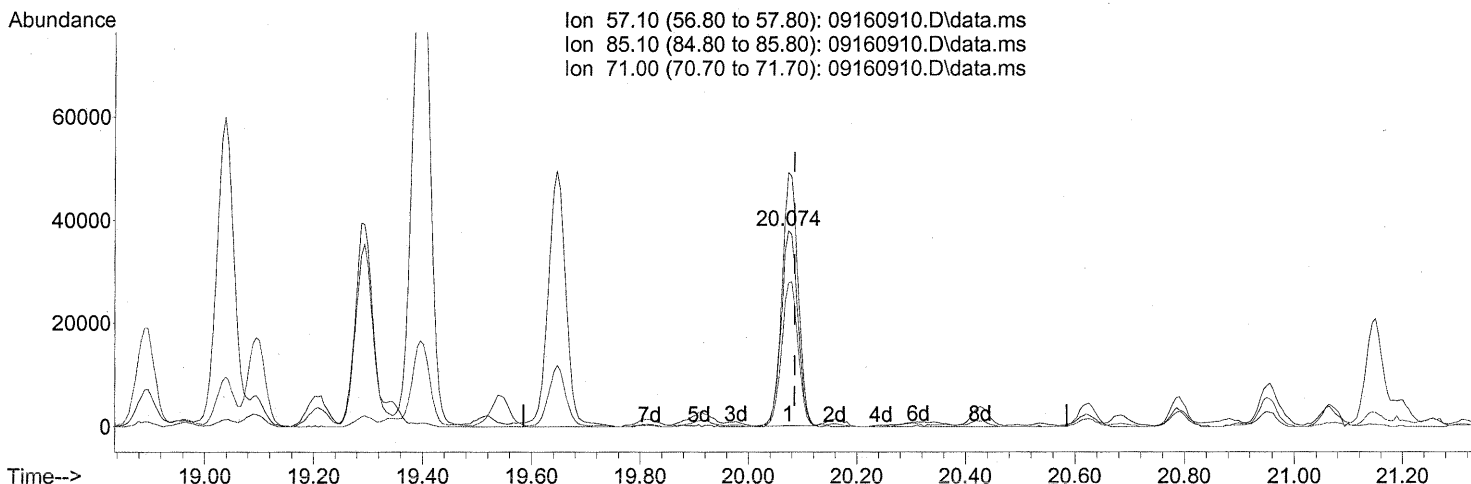
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 2.00ng
 response 71845

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	62.21#
73.00	15.40	17.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(63) n-Octane (T)

20.074min (-0.012) 6.58ng

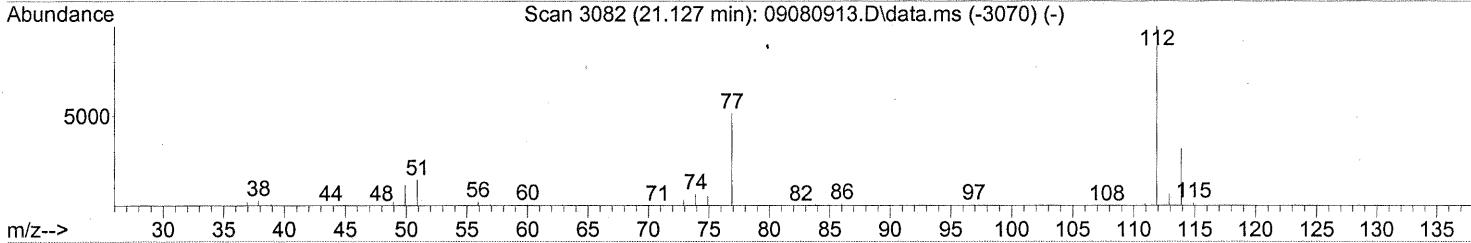
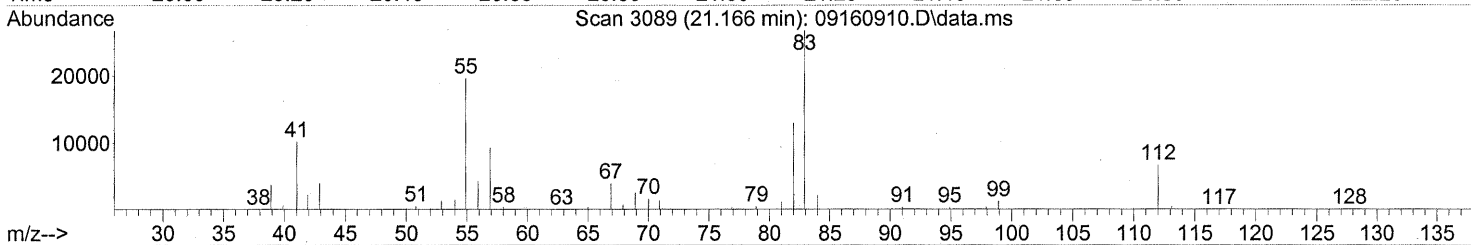
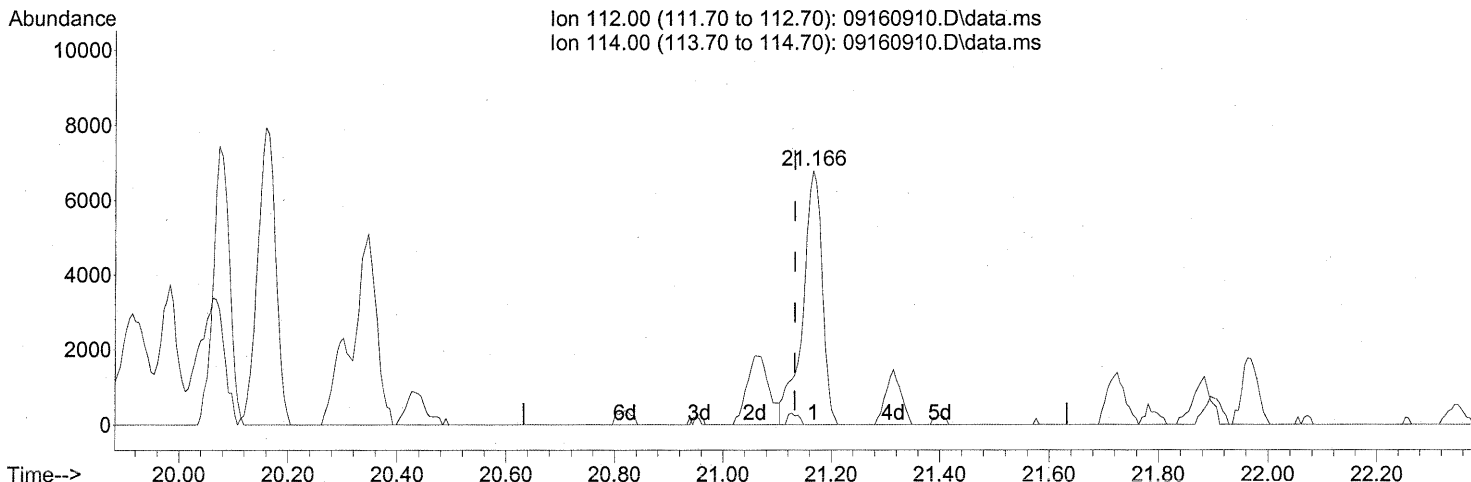
response 80261

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	127.06
71.00	69.40	74.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.166min (+0.034) 0.39ng
 response 16983

FP in 9/18/09

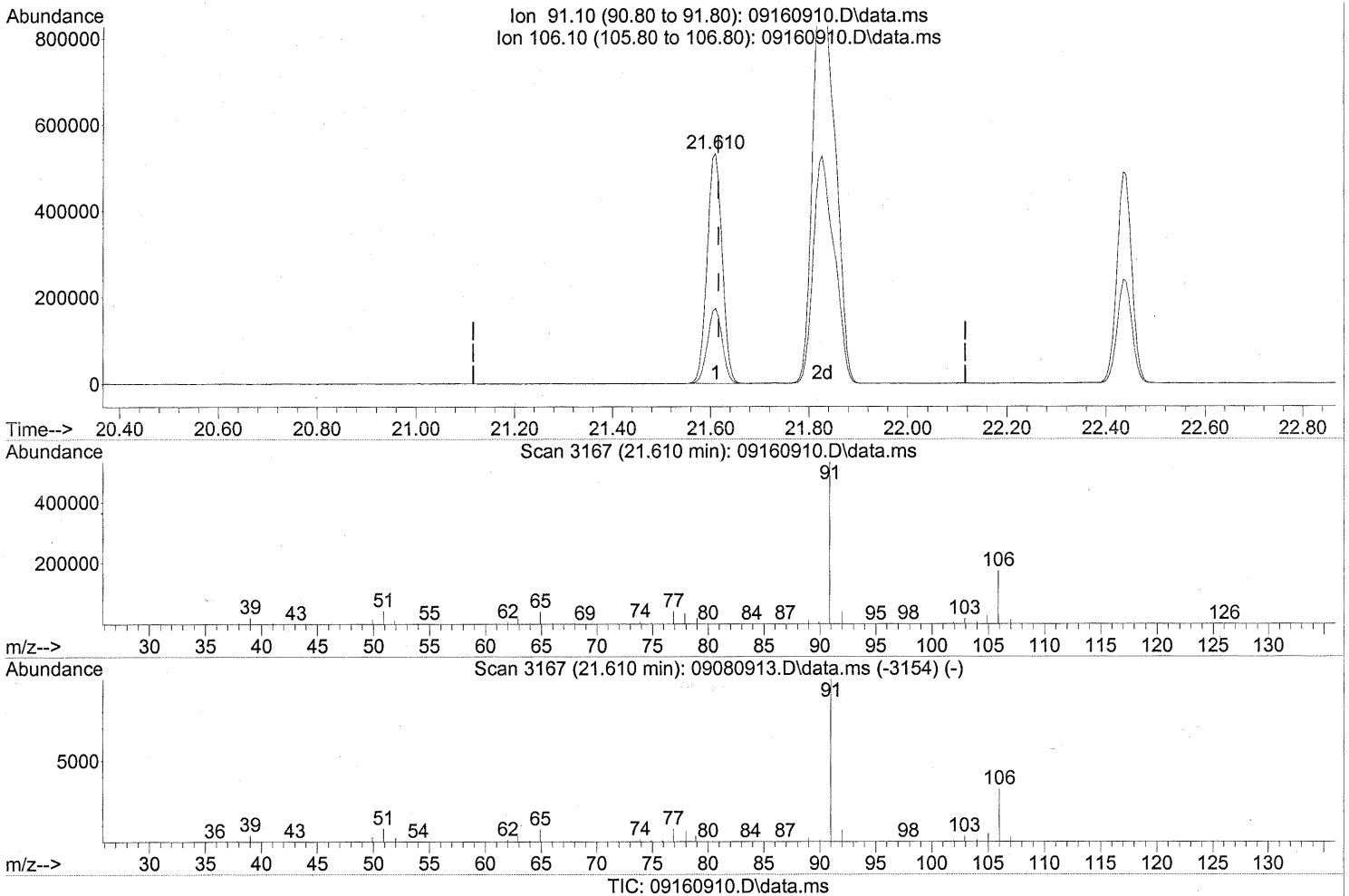
Ion	Exp%	Act%
112.00	100	100
114.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



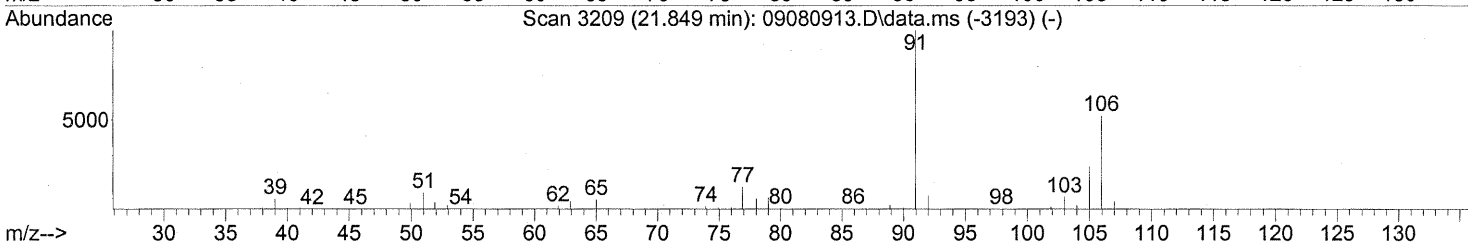
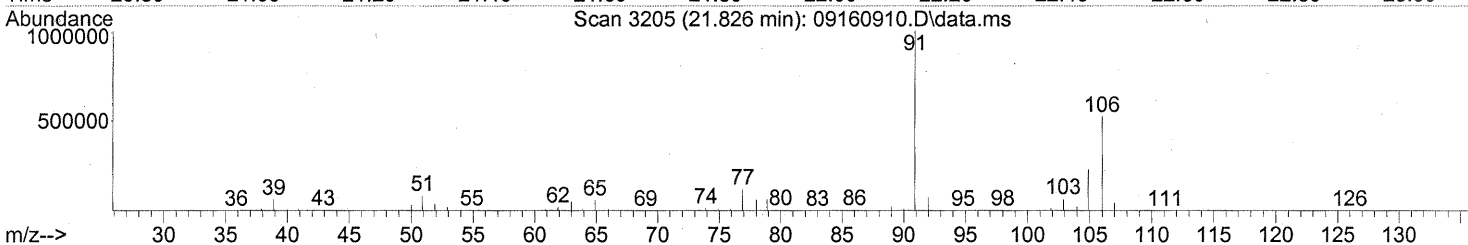
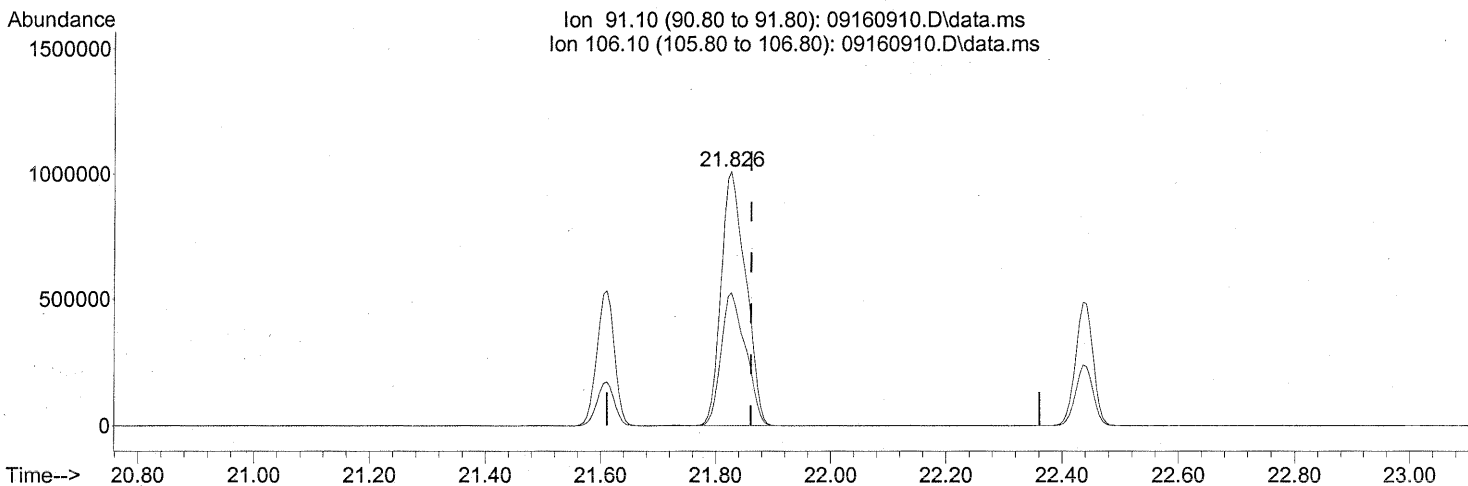
(66) Ethylbenzene (T)
 21.610min (-0.006) 15.94ng
 response 1137426

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(67) m- & p-Xylenes (T)

21.826min (-0.034) 54.02ng

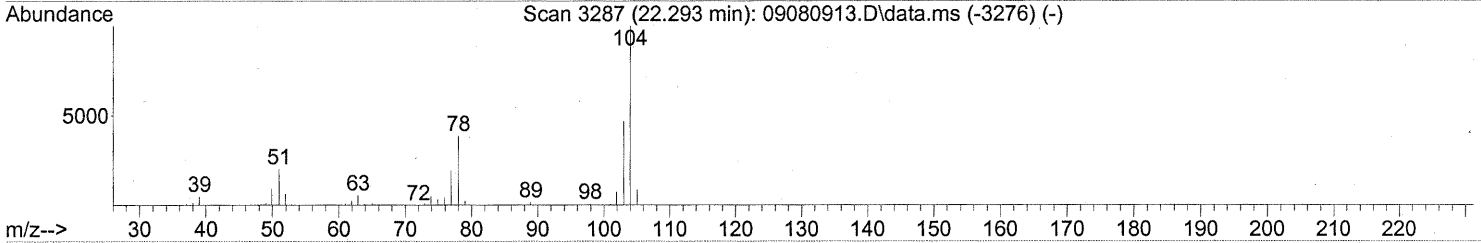
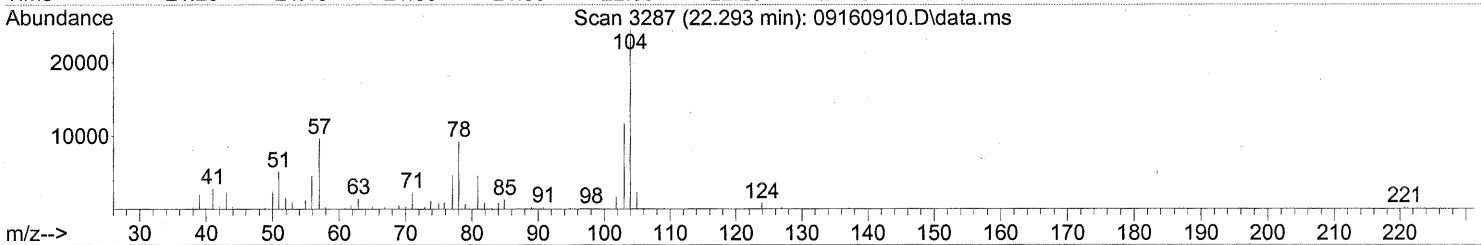
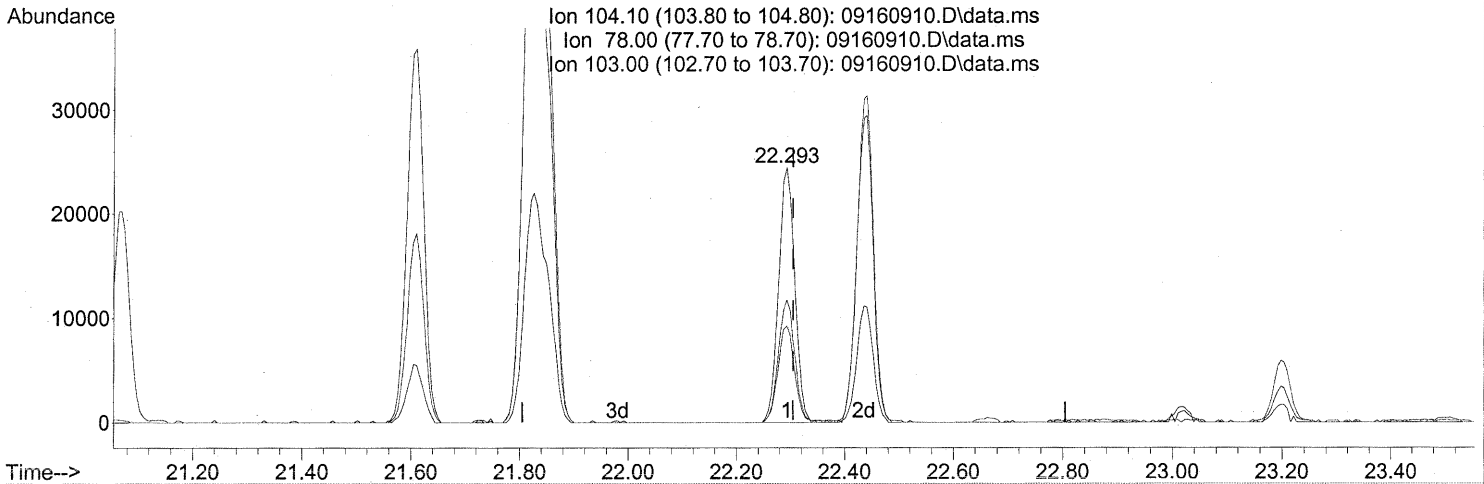
response 3013680

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

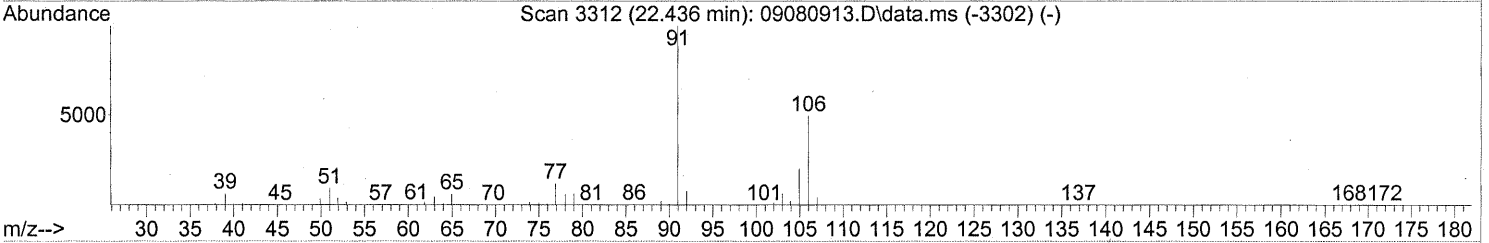
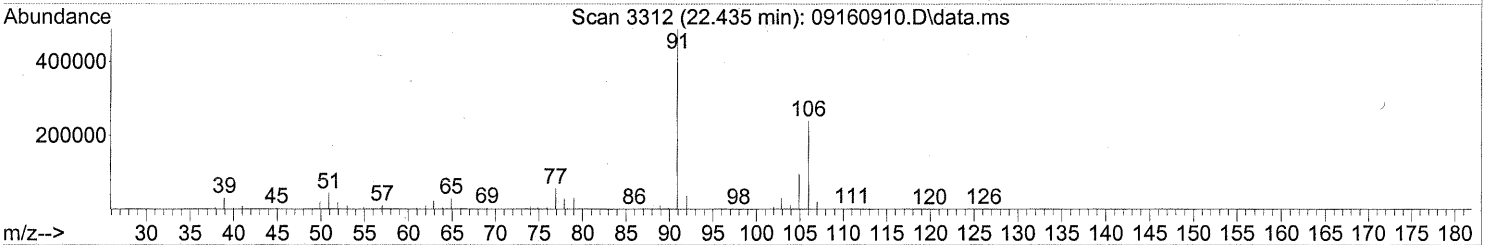
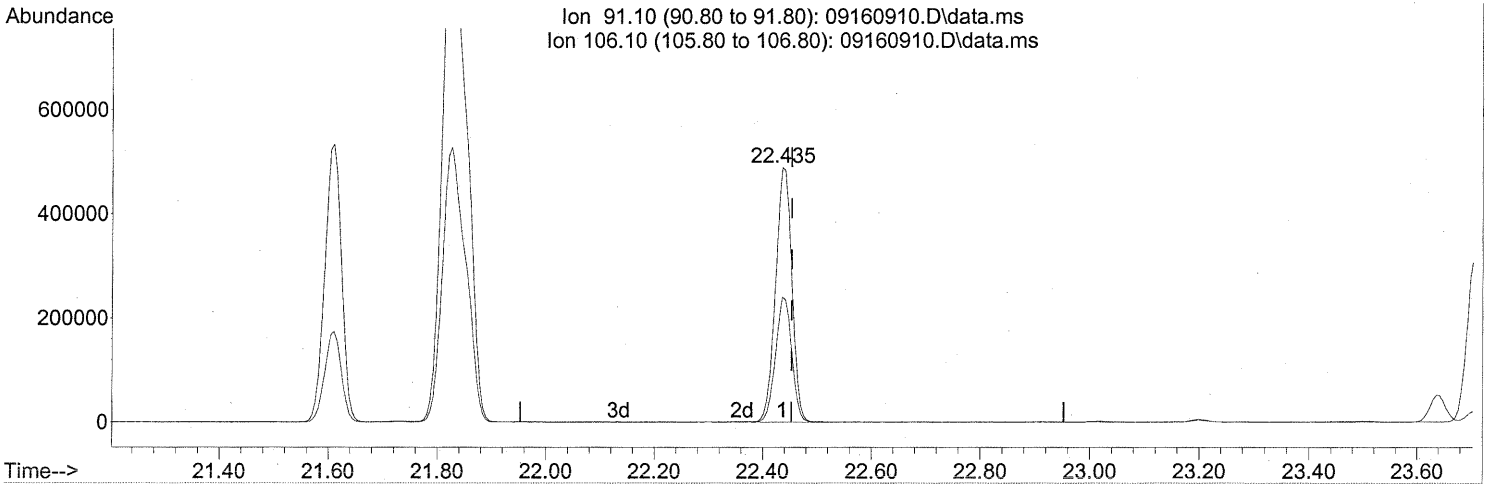
(69) Styrene (T)
 22.293min (-0.012) 1.11ng
 response 50662

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.94
103.00	47.80	49.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



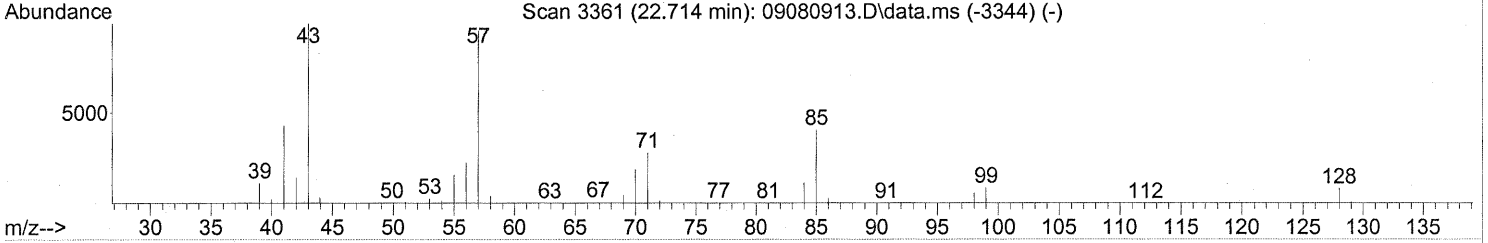
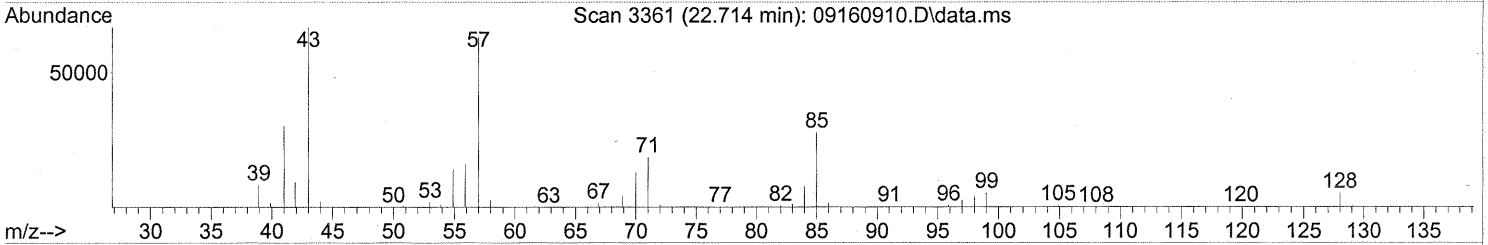
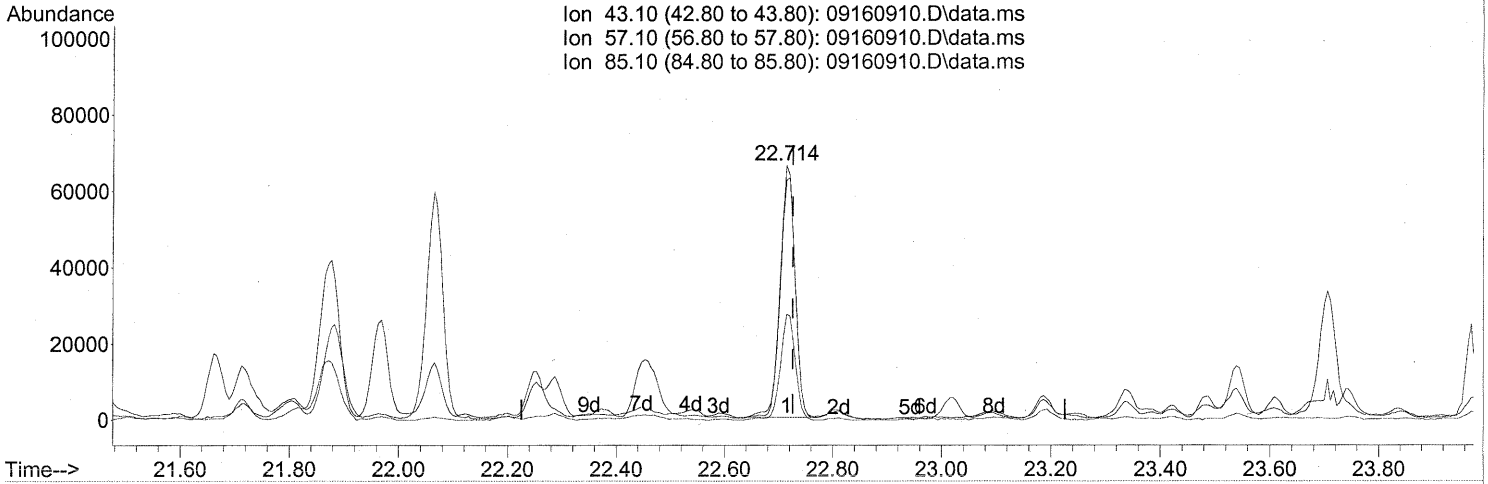
(70) o-Xylene (T)
 22.435min (-0.017) 18.06ng
 response 1029414

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

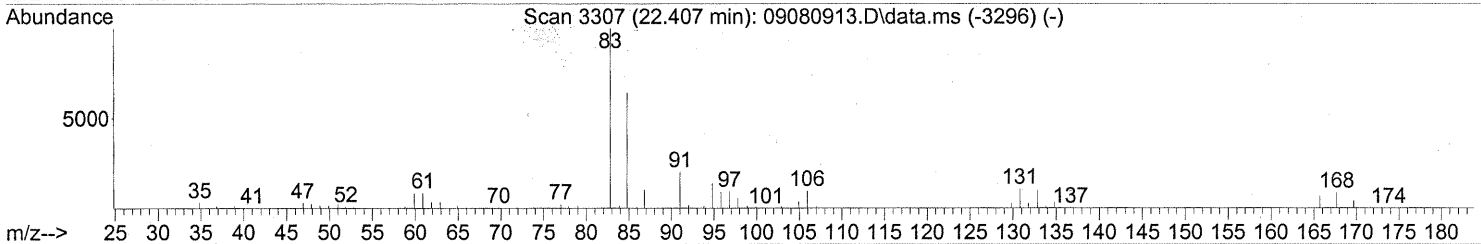
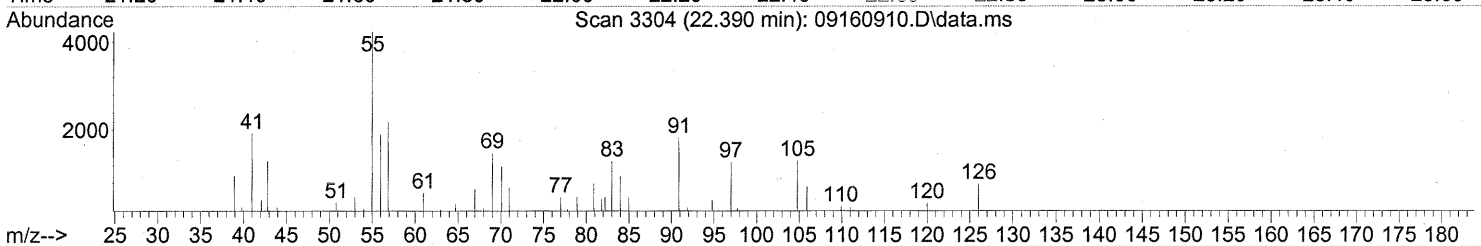
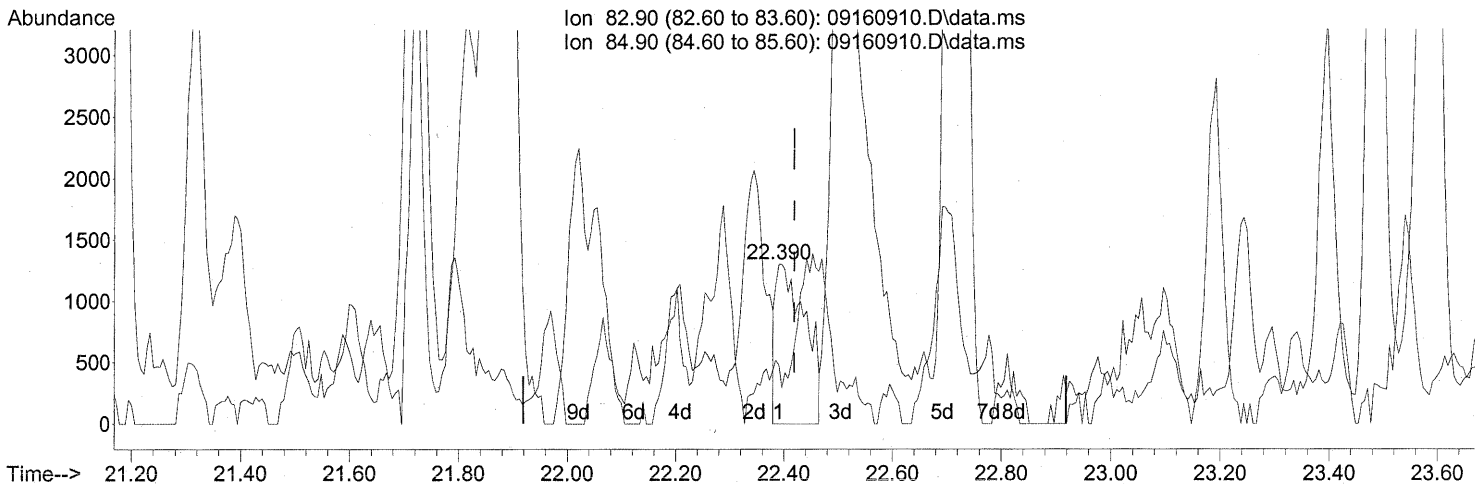
(71) n-Nonane (T)
 22.714min (-0.012) 4.61ng
 response 127670

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	96.27
85.10	33.10	41.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.390min (-0.029) 0.20ng

response 4913

Ion	Exp%	Act%
82.90	100	100
84.90	63.40	17.44#
0.00	0.00	0.00
0.00	0.00	0.00

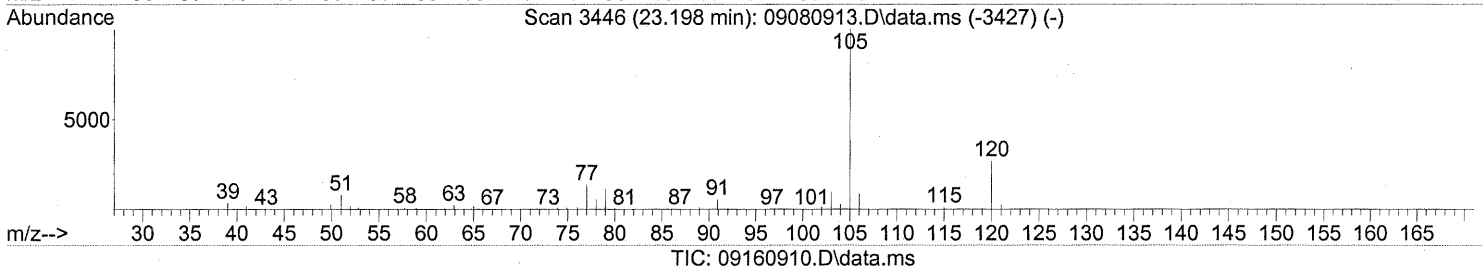
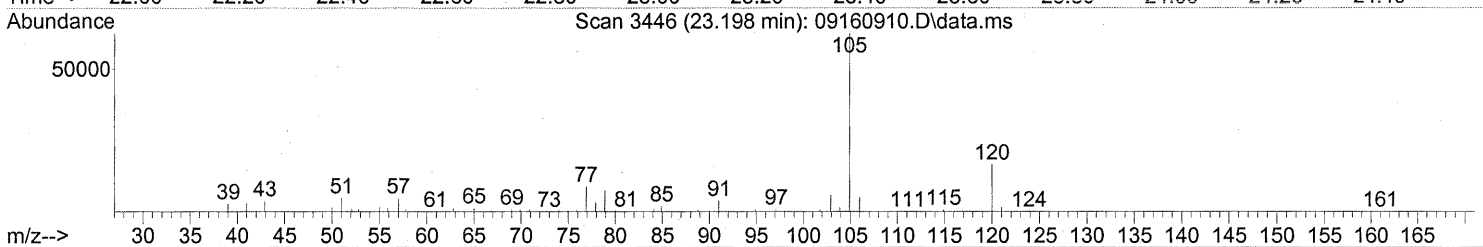
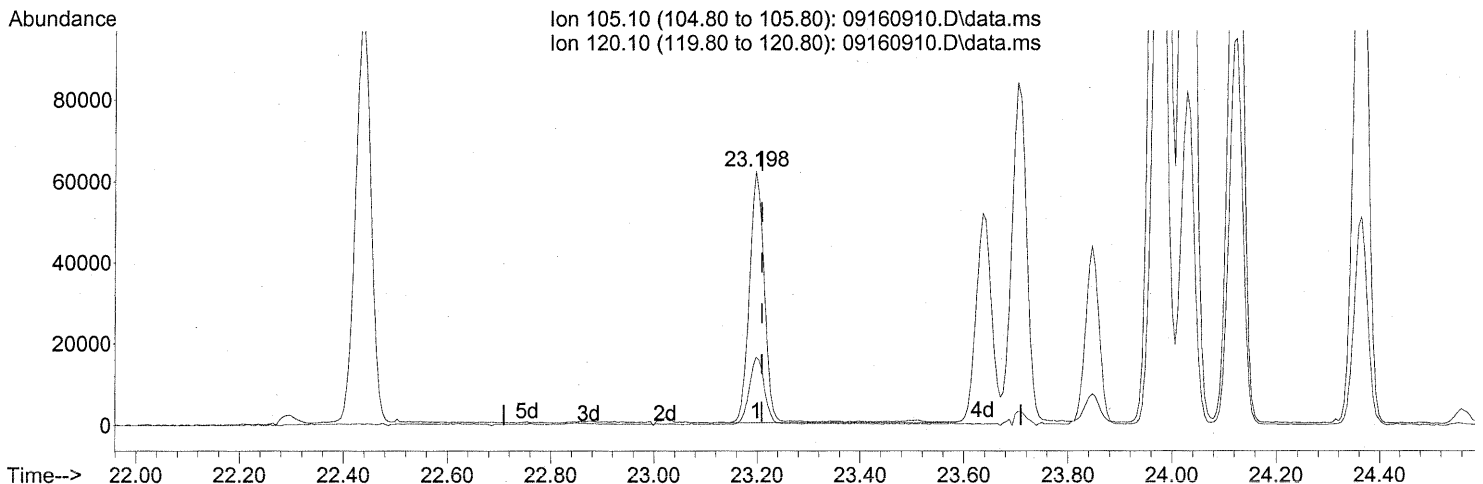
FP in 9/18/09

9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



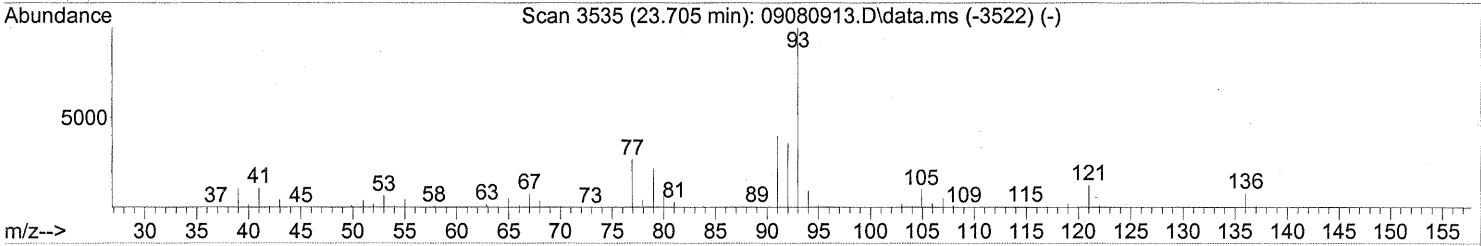
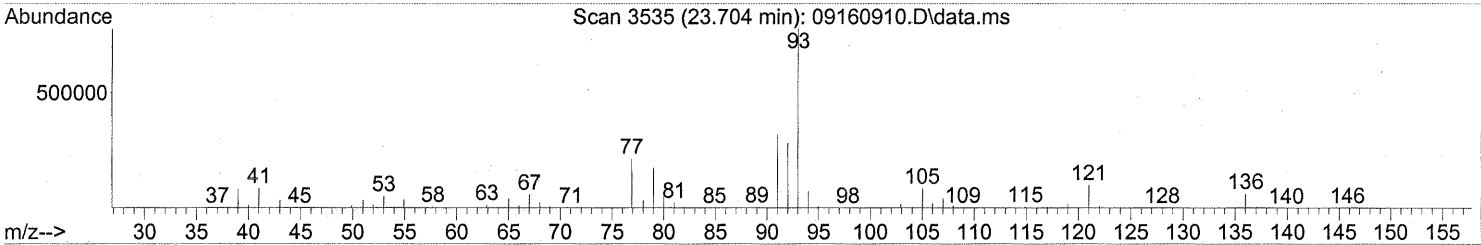
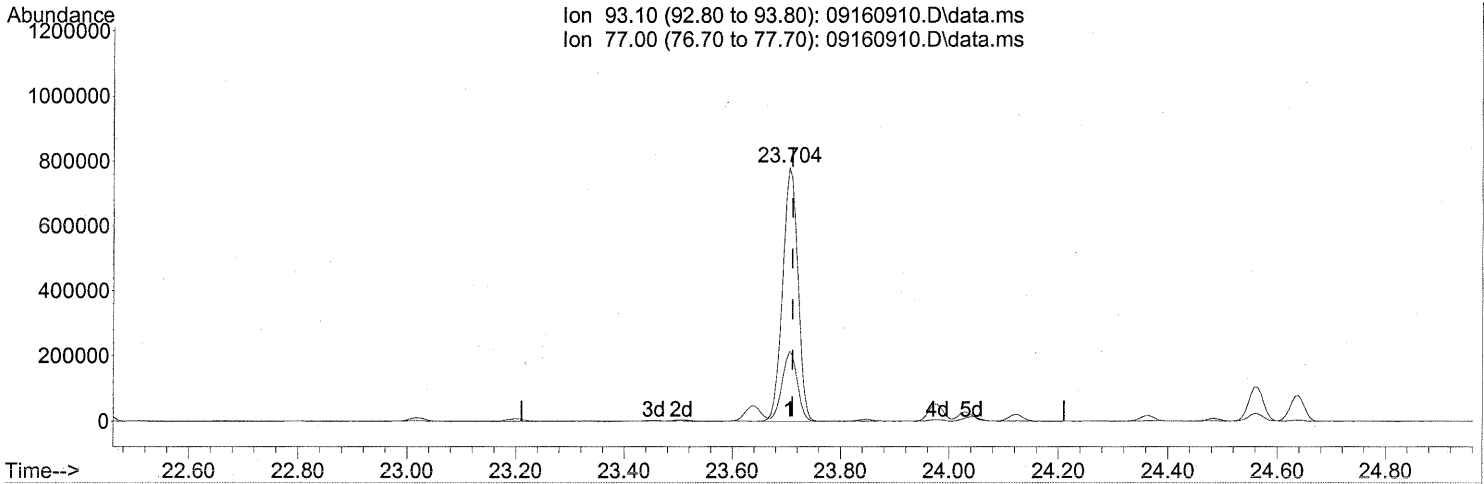
(74) Cumene (T)
 23.198min (-0.012) 1.63ng
 response 127490

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	26.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

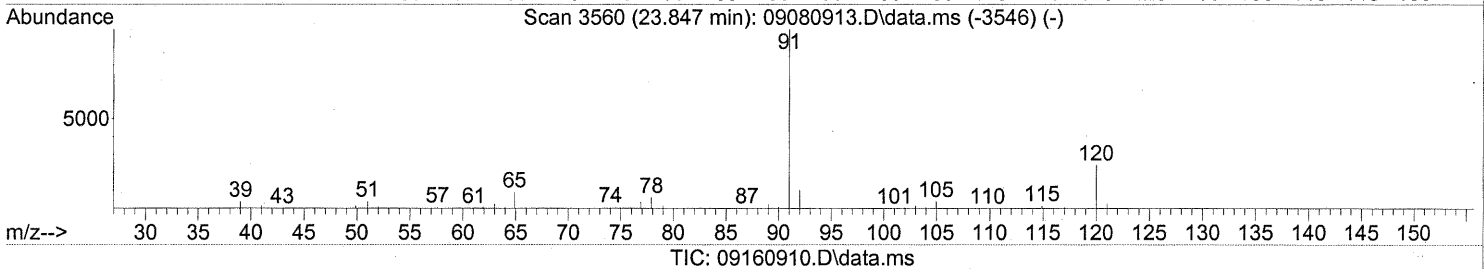
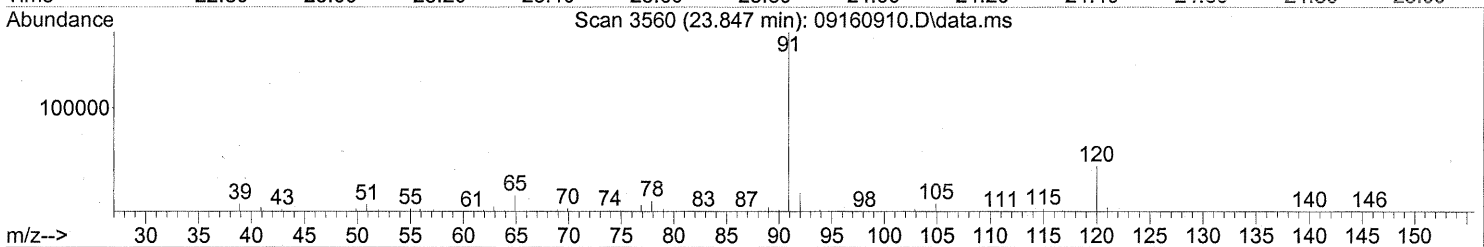
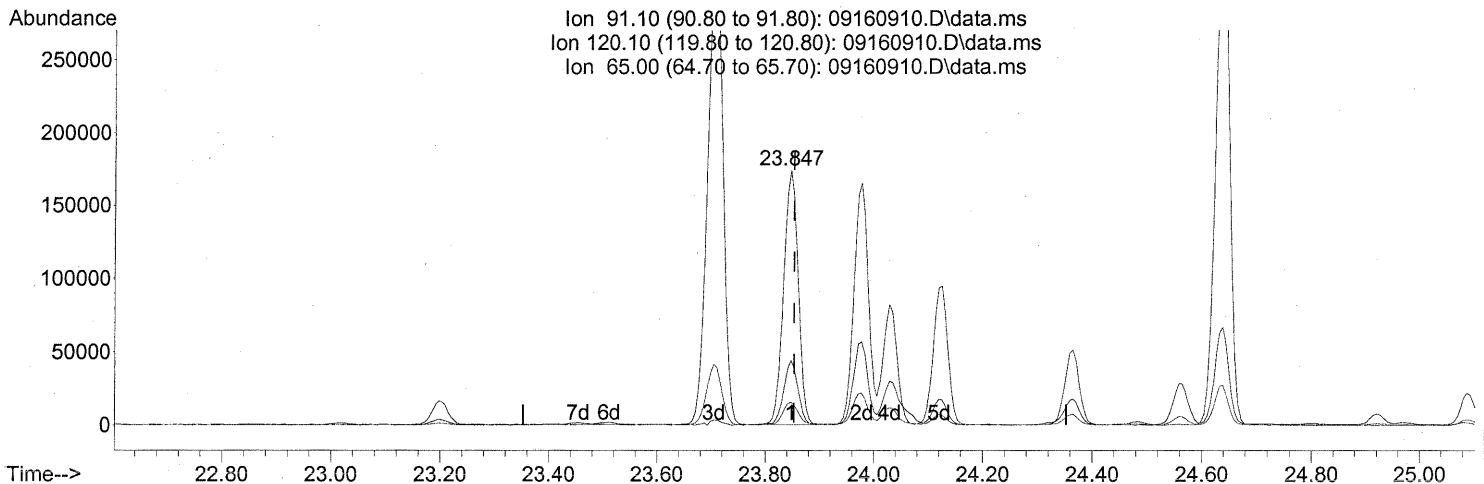
(75) alpha-Pinene (T)
 23.704min (-0.006) 41.81ng
 response 1533019

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 3.57ng

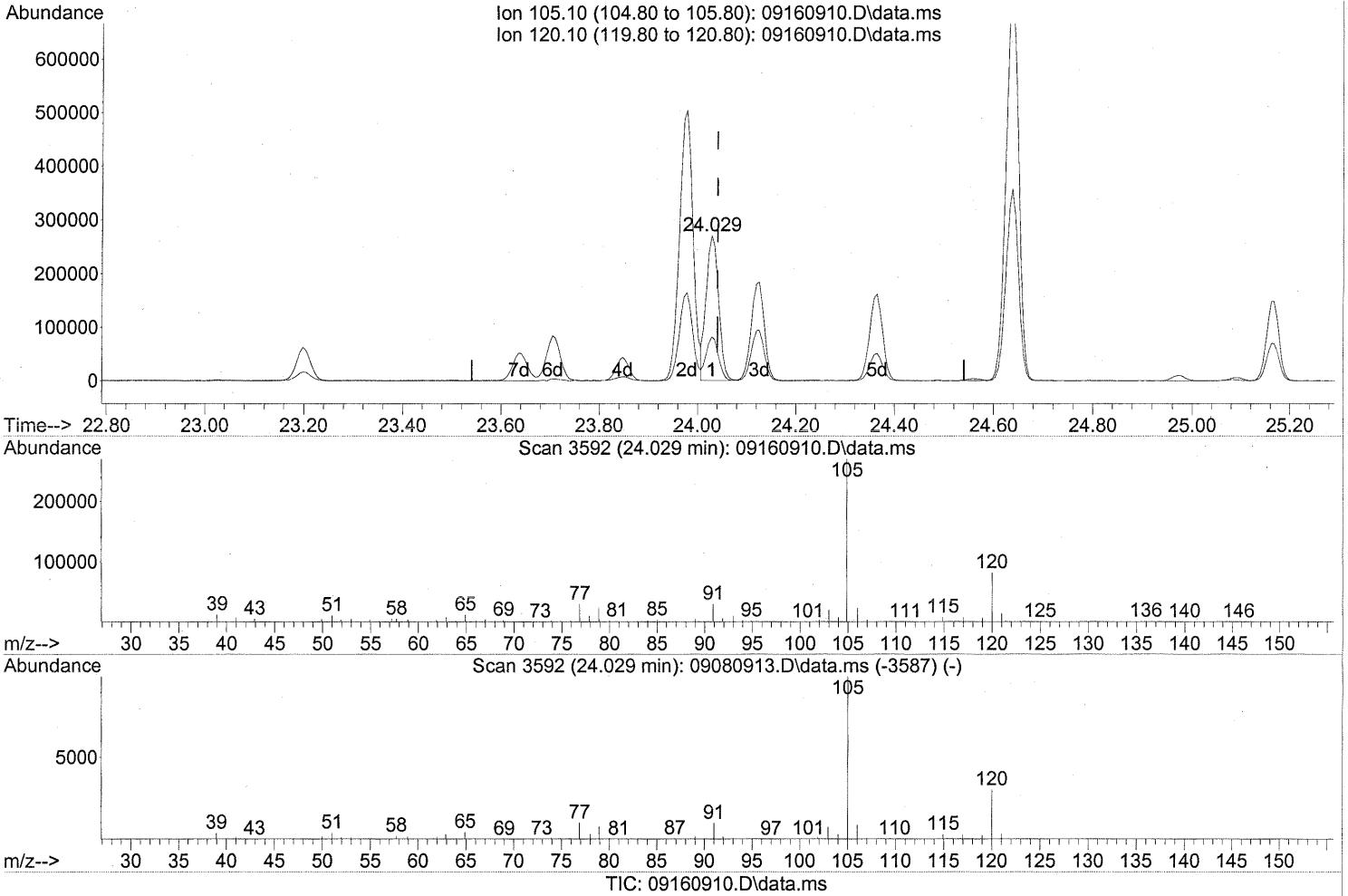
response 325375

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	25.06
65.00	10.30	10.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.029min (-0.012) 6.53ng

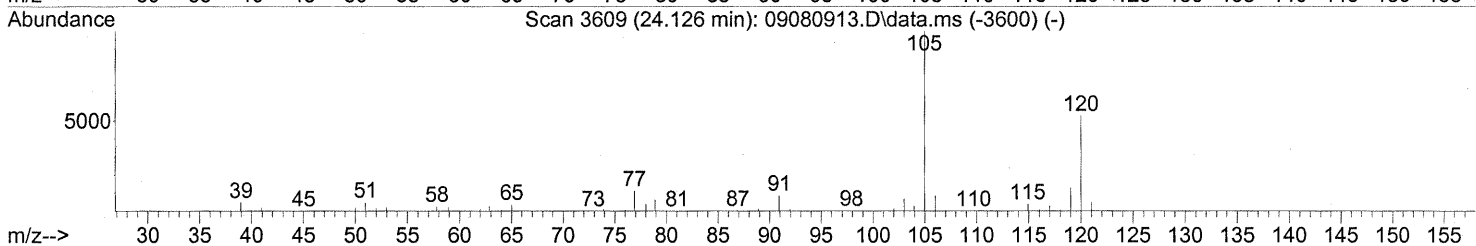
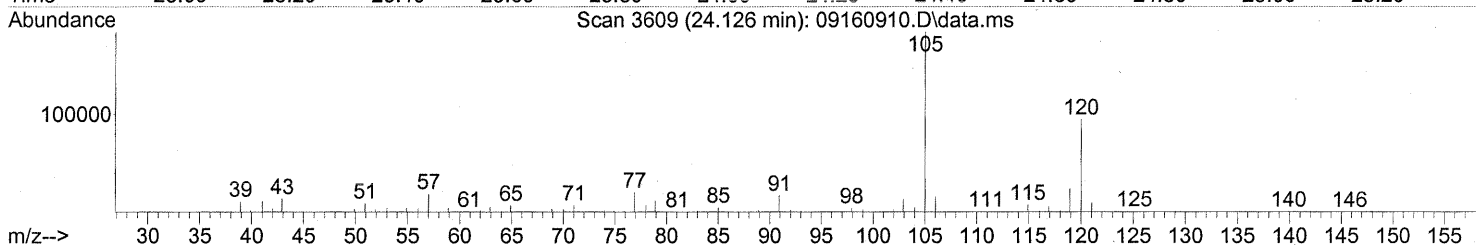
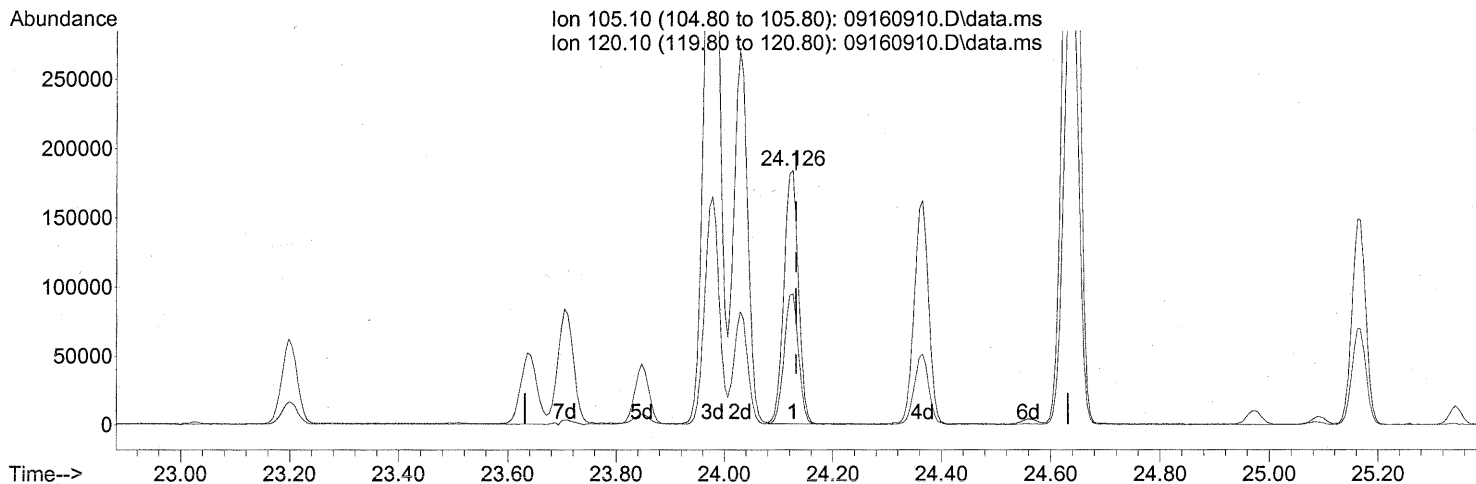
response 475307

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.126min (-0.006) 5.62ng

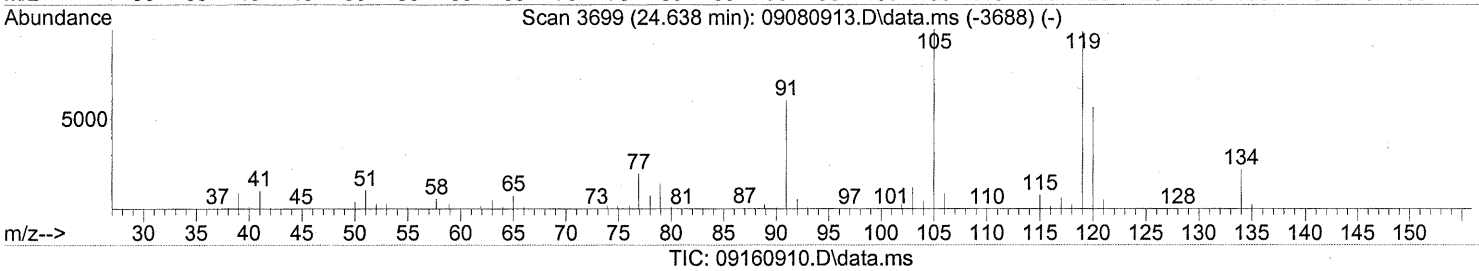
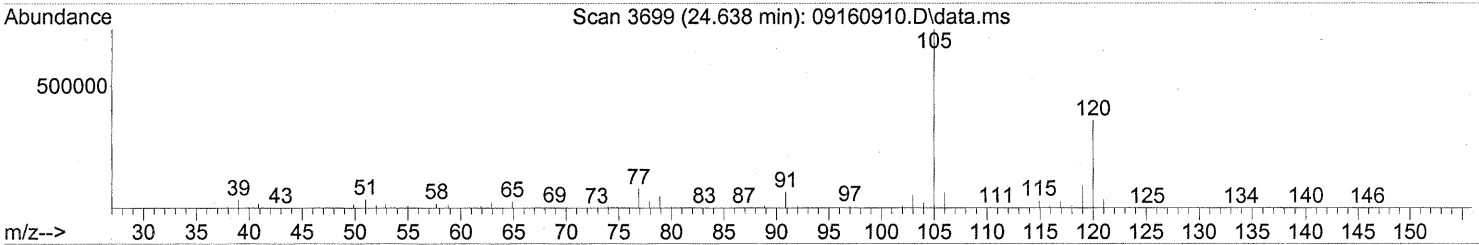
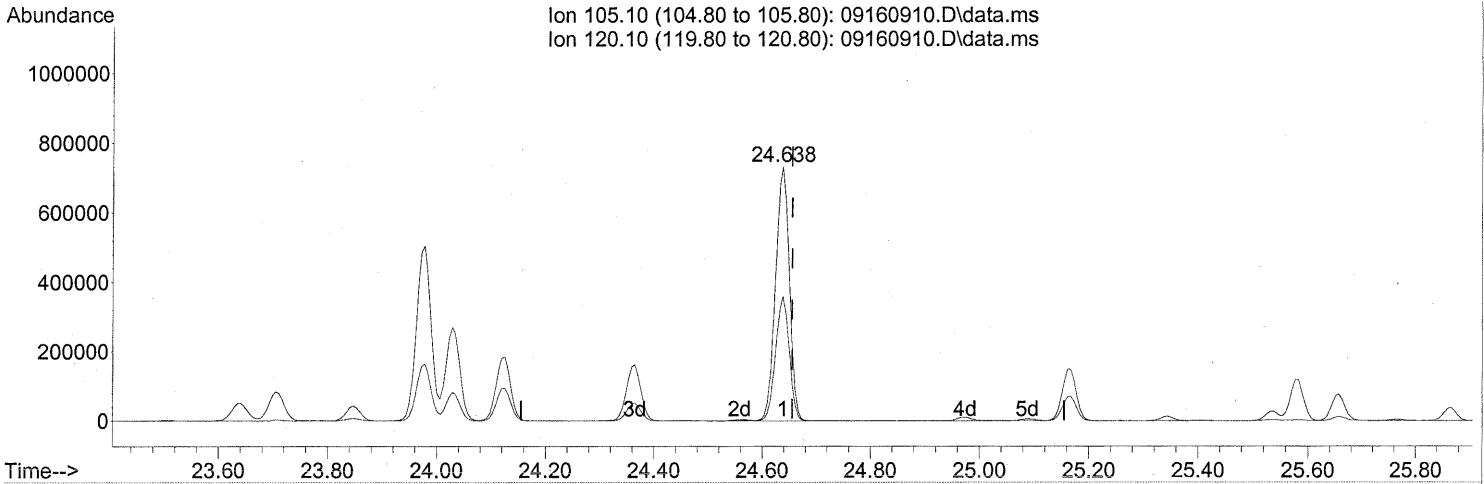
response 340763

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	52.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 20.23ng

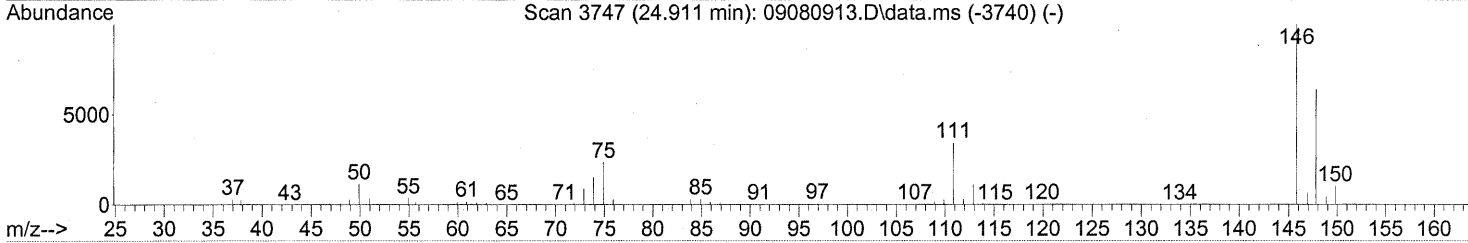
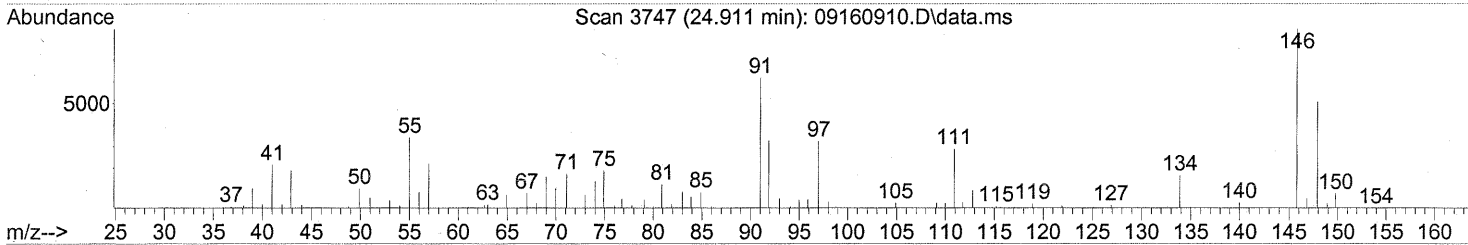
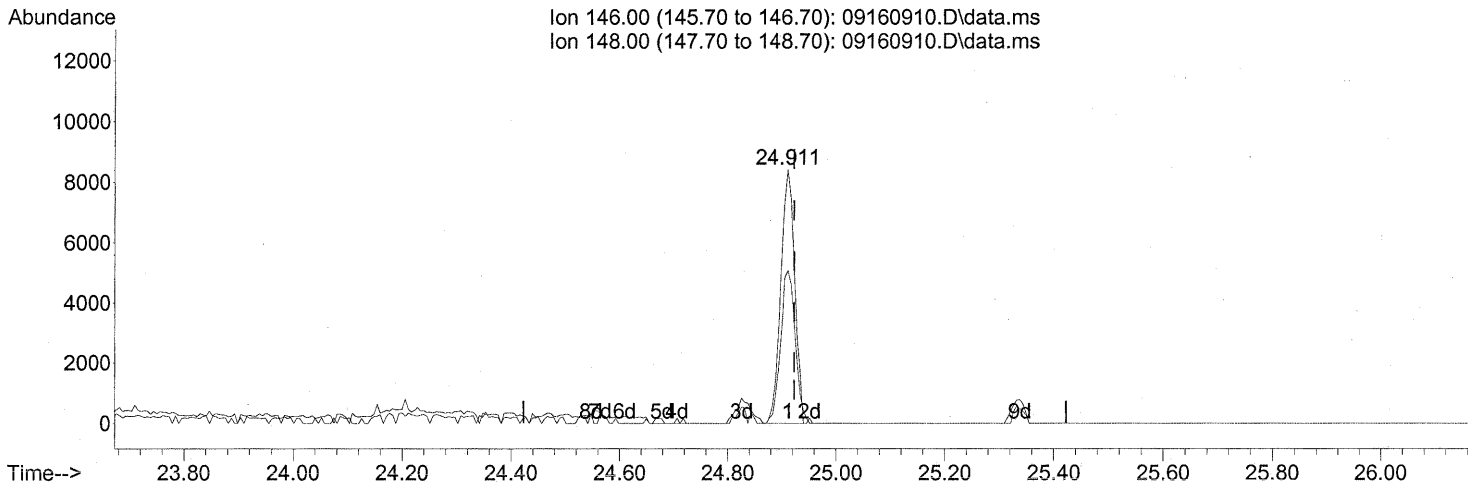
response 1307947

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160910.D\data.ms

(86) 1,4-Dichlorobenzene (T)

24.911min (-0.012) 0.38ng

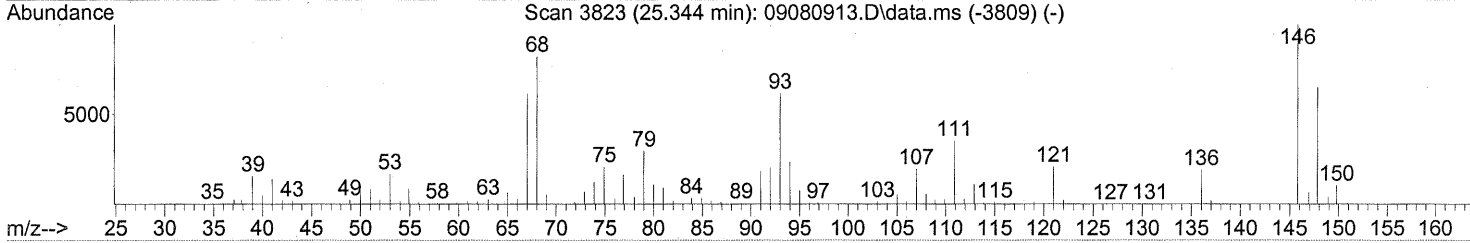
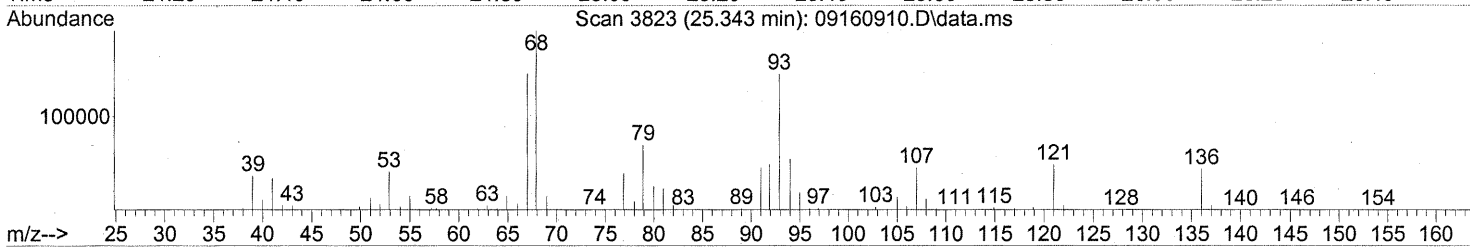
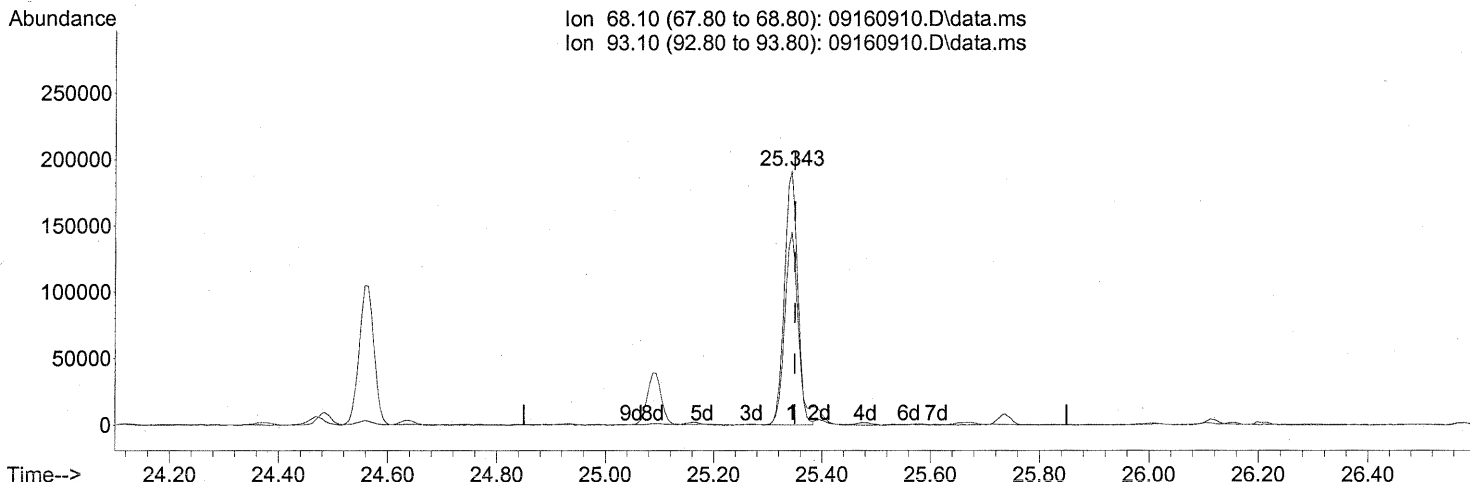
response 14902

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	63.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



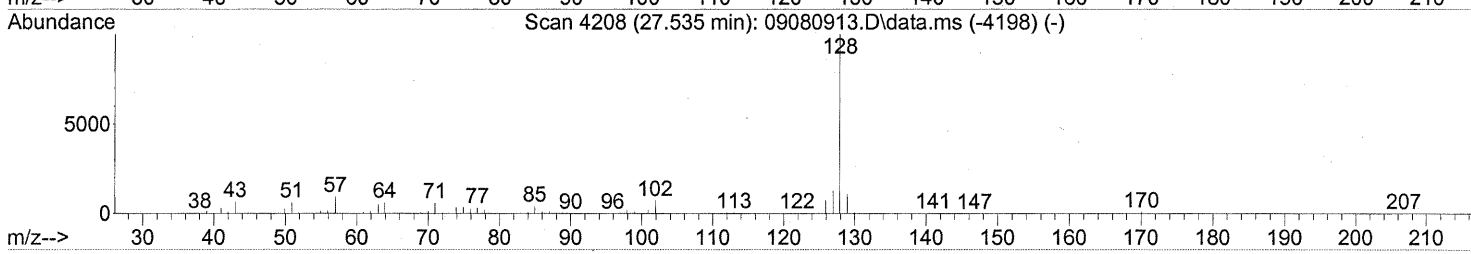
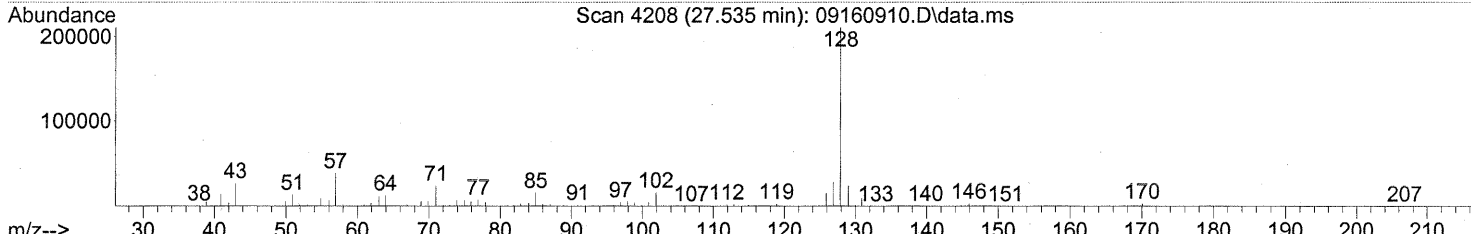
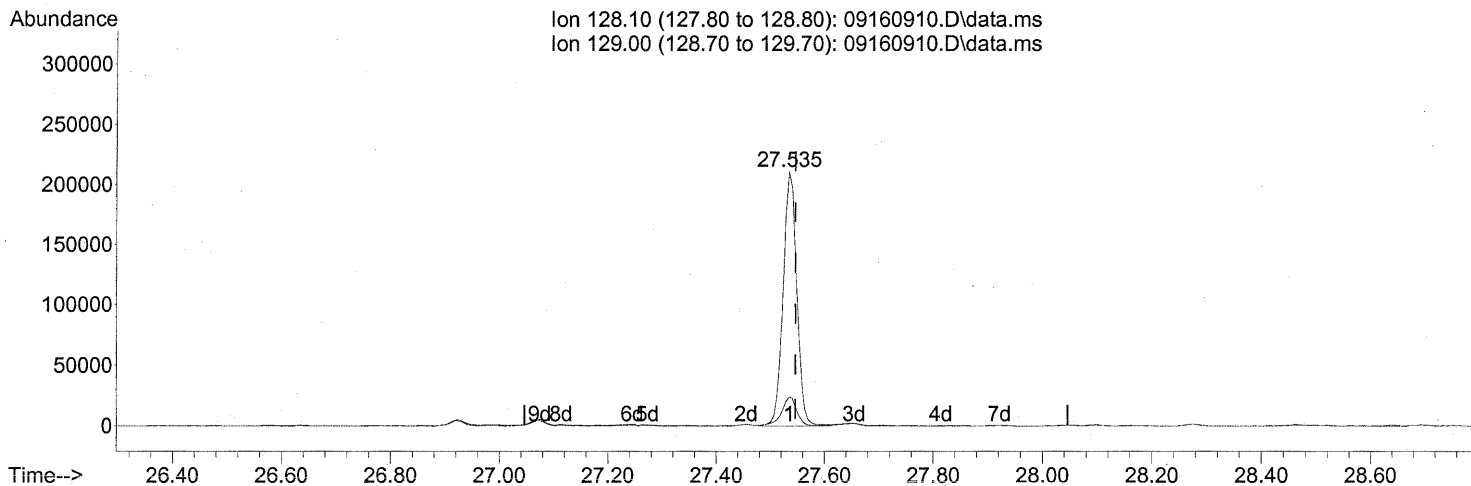
(91) d-Limonene (T)
 25.343min (-0.006) 13.92ng
 response 323116

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	83.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160910.D
 Acq On : 16 Sep 2009 14:53
 Operator : LH
 Sample : P0903145-007 (500mL)
 Misc : Environmental H & E 102716
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 17 07:23:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)
 27.535min (-0.012) 3.96ng
 response 371749

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.79
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102717

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P0903145-008

Test Code: EPA TO-15

Date Collected: 9/1/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 9/4/09

Analyst: Lusine Hakobyan

Date Analyzed: 9/16/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.70 Liter(s)

Test Notes:

Container ID: AC01142

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	27	0.89	16	0.51	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.89	0.56	0.18	
74-87-3	Chloromethane	0.96	0.18	0.46	0.086	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.89	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.18	ND	0.069	
106-99-0	1,3-Butadiene	ND	0.18	ND	0.080	
74-83-9	Bromomethane	ND	0.18	ND	0.046	
75-00-3	Chloroethane	ND	0.18	ND	0.067	
64-17-5	Ethanol	570	8.9	300	4.7	
75-05-8	Acetonitrile	89	0.89	53	0.53	
107-02-8	Acrolein	6.6	0.89	2.9	0.39	
67-64-1	Acetone	130	8.9	56	3.7	M1
75-69-4	Trichlorofluoromethane	1.4	0.18	0.26	0.032	
67-63-0	2-Propanol (Isopropyl Alcohol)	210	0.89	85	0.36	
107-13-1	Acrylonitrile	ND	0.89	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.18	ND	0.045	
75-09-2	Methylene Chloride	1.9	0.89	0.53	0.26	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	ND	0.057	
76-13-1	Trichlorotrifluoroethane	0.58	0.18	0.076	0.023	
75-15-0	Carbon Disulfide	ND	0.89	ND	0.28	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	ND	0.045	
75-34-3	1,1-Dichloroethane	ND	0.18	ND	0.044	
1634-04-4	Methyl tert-Butyl Ether	0.37	0.18	0.10	0.049	
108-05-4	Vinyl Acetate	ND	8.9	ND	2.5	
78-93-3	2-Butanone (MEK)	15	0.89	5.2	0.30	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____

Date: _____

9/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102717

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P0903145-008

Test Code: EPA TO-15

Date Collected: 9/1/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 9/4/09

Analyst: Lusine Hakobyan

Date Analyzed: 9/16/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.70 Liter(s)

Test Notes:

Container ID: AC01142

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	ND	0.045	
141-78-6	Ethyl Acetate	13	0.89	3.6	0.25	
110-54-3	n-Hexane	43	0.89	12	0.25	
67-66-3	Chloroform	4.1	0.18	0.84	0.036	
109-99-9	Tetrahydrofuran (THF)	1.6	0.89	0.53	0.30	
107-06-2	1,2-Dichloroethane	5.0	0.18	1.2	0.044	
71-55-6	1,1,1-Trichloroethane	ND	0.18	ND	0.032	
71-43-2	Benzene	19	0.18	6.0	0.055	
56-23-5	Carbon Tetrachloride	0.67	0.18	0.11	0.028	
110-82-7	Cyclohexane	5.8	0.89	1.7	0.26	
78-87-5	1,2-Dichloropropane	ND	0.18	ND	0.038	
75-27-4	Bromodichloromethane	3.4	0.18	0.50	0.026	
79-01-6	Trichloroethene	0.91	0.18	0.17	0.033	
123-91-1	1,4-Dioxane	ND	0.89	ND	0.25	
80-62-6	Methyl Methacrylate	ND	0.89	ND	0.22	
142-82-5	n-Heptane	16	0.89	3.9	0.22	
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	ND	0.20	
108-10-1	4-Methyl-2-pentanone	1.6	0.89	0.40	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.18	ND	0.032	
108-88-3	Toluene	77	0.89	20	0.24	
591-78-6	2-Hexanone	ND	0.89	ND	0.22	
124-48-1	Dibromochloromethane	ND	0.18	ND	0.021	
106-93-4	1,2-Dibromoethane	ND	0.18	ND	0.023	
123-86-4	n-Butyl Acetate	5.4	0.89	1.1	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: 9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102717
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01142

Date Collected: 9/1/09
Date Received: 9/4/09
Date Analyzed: 9/16/09
Volume(s) Analyzed: 0.70 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	9.5	0.89	2.0	0.19	
127-18-4	Tetrachloroethene	0.20	0.18	0.029	0.026	
108-90-7	Chlorobenzene	ND	0.18	ND	0.038	
100-41-4	Ethylbenzene	15	0.89	3.5	0.20	
179601-23-1	m,p-Xylenes	48	0.89	11	0.20	
75-25-2	Bromoform	ND	0.89	ND	0.086	
100-42-5	Styrene	3.6	0.89	0.84	0.21	
95-47-6	o-Xylene	17	0.89	3.8	0.20	
111-84-2	n-Nonane	6.1	0.89	1.2	0.17	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	ND	0.026	
98-82-8	Cumene	1.5	0.89	0.30	0.18	
80-56-8	alpha-Pinene	120	0.89	21	0.16	
103-65-1	n-Propylbenzene	3.1	0.89	0.63	0.18	
622-96-8	4-Ethyltoluene	5.3	0.89	1.1	0.18	
108-67-8	1,3,5-Trimethylbenzene	4.7	0.89	0.96	0.18	
95-63-6	1,2,4-Trimethylbenzene	16	0.89	3.3	0.18	
100-44-7	Benzyl Chloride	ND	0.18	ND	0.034	
541-73-1	1,3-Dichlorobenzene	ND	0.18	ND	0.029	
106-46-7	1,4-Dichlorobenzene	1.5	0.18	0.25	0.029	
95-50-1	1,2-Dichlorobenzene	ND	0.18	ND	0.029	
5989-27-5	d-Limonene	44	0.89	7.9	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.89	ND	0.092	
120-82-1	1,2,4-Trichlorobenzene	ND	0.89	ND	0.12	
91-20-3	Naphthalene	5.2	0.89	1.0	0.17	
87-68-3	Hexachlorobutadiene	ND	0.89	ND	0.083	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: 9/22/09

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717 ✓
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 16:32:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	338307	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1621293	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	691368	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	447607	24.008	ng	-0.03
Spiked Amount	25.000		Recovery	=	96.04%	✓
57) Toluene-d8 (SS2)	18.63	98	1694191	24.481	ng	0.00
Spiked Amount	25.000		Recovery	=	97.92%	✓
73) Bromofluorobenzene (SS3)	23.02	174	681666	27.487	ng	0.00
Spiked Amount	25.000		Recovery	=	109.96%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.58	42	208617	15.143	ng	89
3) Dichlorodifluoromethan...	4.74	85	41424	1.573	ng	99
4) Chloromethane	5.06	50	11656	0.540	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	697	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	861	0.060	ng	# 77
8) Bromomethane	6.21	94	1148	0.084	ng	93
9) Chloroethane	6.53	64	260	N.D.		
10) Ethanol	6.97	45	3190735	319.486	ng	99
11) Acetonitrile	7.18	41	1265576	50.104	ng	100
12) Acrolein	7.36	56	27843	3.747	ng	100
13) Acetone	7.58	58	756155	75.154	ng	# 78
14) Trichlorofluoromethane	7.84	101	19796	0.811	ng	98
15) 2-Propanol (Isopropanol)	8.12	45	4079327m	117.720	ng	
16) Acrylonitrile	8.37	53	1309	0.067	ng	94
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	14859	0.415	ng	# 1
19) Methylene Chloride	9.06	84	16041	1.045	ng	79
20) 3-Chloro-1-propene (Al...	9.32	41	822	N.D.		
21) Trichlorotrifluoroethane	9.49	151	3953	0.329	ng	85
22) Carbon Disulfide	9.43	76	26276	0.494	ng	98
23) trans-1,2-Dichloroethene	10.40	61	627	N.D.		
24) 1,1-Dichloroethane	10.85	63	1350	0.056	ng	# 1
25) Methyl tert-Butyl Ether	10.88	73	8054	0.208	ng	77
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.36	72	83249	8.614	ng	# 70
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.37	87	8036	0.718	ng	# 1
30) Ethyl Acetate	12.36	61	36082	7.354	ng	# 76
31) n-Hexane	12.37	57	472267	24.300	ng	9380

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
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 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 16:32:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.46	83	54855	2.301 ng		98
34) Tetrahydrofuran (THF)	13.03	72	7962	0.890 ng	#	42
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	46507	2.828 ng		99
38) 1,1,1-Trichloroethane	13.94	97	413	N.D.		
39) Isopropyl Acetate	14.51	61	3501	0.390 ng	#	1
40) 1-Butanol	14.52	56	184407	12.607 ng		92
41) Benzene	14.63	78	625629	10.820 ng		99
42) Carbon Tetrachloride	14.86	117	6547	0.377 ng		95
43) Cyclohexane	15.06	84	68679	3.255 ng		92
44) tert-Amyl Methyl Ether	15.56	73	1070	N.D.		
45) 1,2-Dichloropropane	15.86	63	388	N.D.		
46) Bromodichloromethane	16.18	83	33912	1.894 ng	#	18
47) Trichloroethene	16.21	130	8926	0.513 ng		96
48) 1,4-Dioxane	16.18	88	703	0.057 ng		80
49) 2,2,4-Trimethylpentane...	16.30	57	491614	8.439 ng		96
50) Methyl Methacrylate	16.49	100	1096	0.165 ng	#	1
51) n-Heptane	16.67	71	132002	8.946 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	12009	0.931 ng		91
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.36	97	1046	0.072 ng	#	1
58) Toluene	18.76	91	2797058	43.295 ng		99
59) 2-Hexanone	19.09	43	49093	1.576 ng	FP#	60
60) Dibromochloromethane	19.31	129	1327	0.082 ng		89
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	108534	3.044 ng		86
63) n-Octane	20.07	57	65309	5.385 ng		89
64) Tetrachloroethene	20.25	166	2228	0.112 ng		99
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.61	91	602463	8.493 ng		97
67) m- & p-Xylenes	21.82	91	1502298	27.095 ng		95
68) Bromoform	21.92	173	472	N.D.		
69) Styrene	22.29	104	91403	2.007 ng		96
70) o-Xylene	22.44	91	530916	9.371 ng		95
71) n-Nonane	22.71	43	94701	3.444 ng		92
72) 1,1,2,2-Tetrachloroethane	22.45	83	2260	0.092 ng	#	19
74) Cumene	23.20	105	64158	0.827 ng		99
75) alpha-Pinene	23.71	93	2406454	66.037 ng		95
76) n-Propylbenzene	23.85	91	159658	1.761 ng		97
77) 3-Ethyltoluene	23.98	105	446829	6.097 ng		99
78) 4-Ethyltoluene	24.03	105	217959	3.012 ng		98
79) 1,3,5-Trimethylbenzene	24.12	105	160197	2.660 ng		98

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 16:32:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

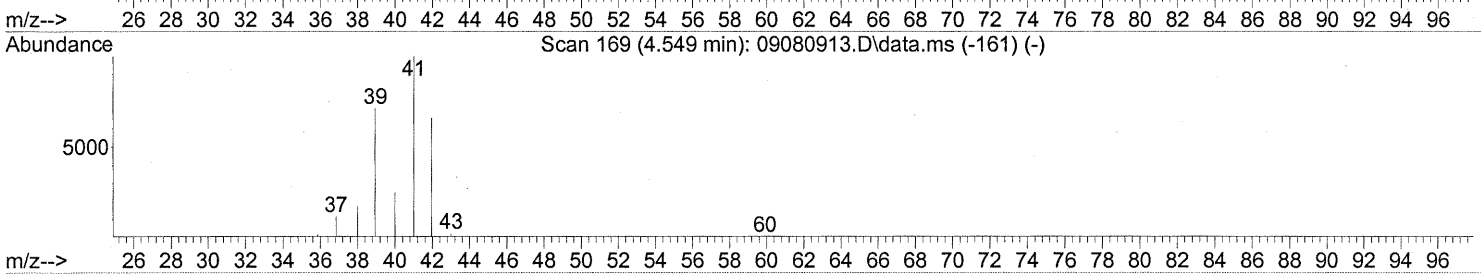
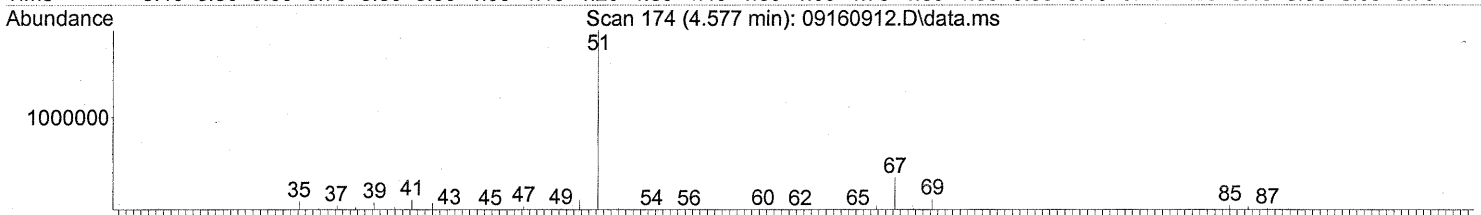
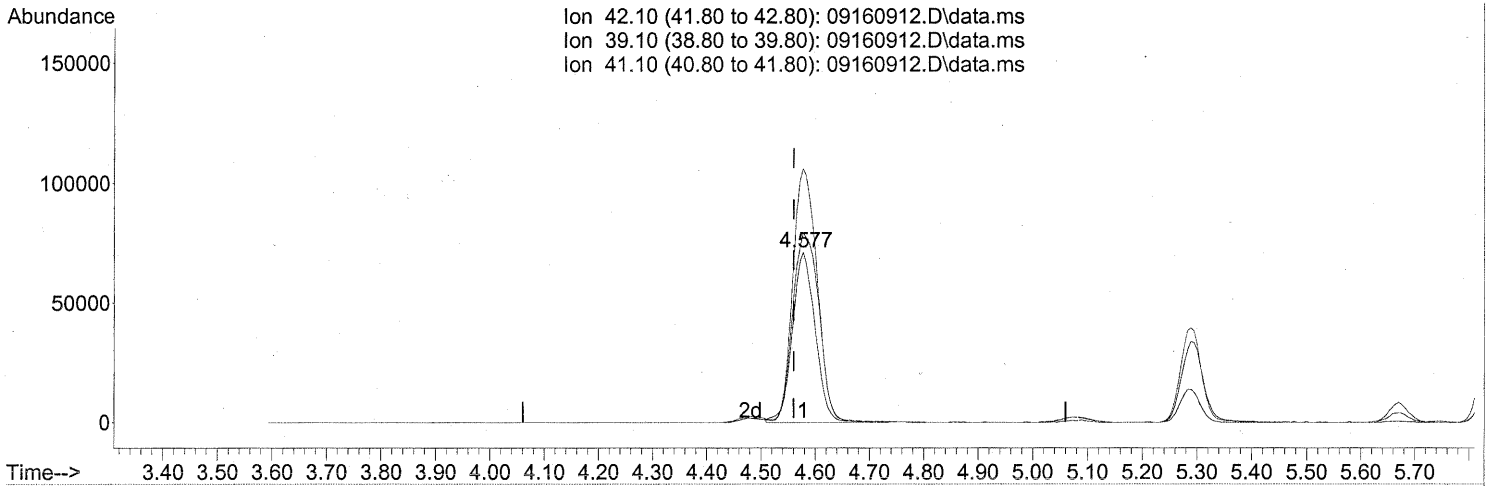
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	3253	0.094	ng	89
81) 2-Ethyltoluene	24.36	105	138828	1.806	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	595340	9.267	ng	92
83) n-Decane	24.75	57	55900	1.662	ng	87
84) Benzyl Chloride	24.81	91	1427	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	233	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	33516	0.860	ng	99
87) sec-Butylbenzene	24.97	105	9762	0.116	ng	# 83
88) 4-Isopropyltoluene (p-...	25.16	119	136652	1.677	ng	98
89) 1,2,3-Trimethylbenzene	25.16	105	125789	2.000	ng	97
90) 1,2-Dichlorobenzene	25.34	146	1194	N.D.		
91) d-Limonene	25.34	68	575183	24.926	ng	78
92) 1,2-Dibromo-3-Chloropr...	26.29	157	369	N.D.		
93) n-Undecane	26.29	57	86857	2.239	ng	97
94) 1,2,4-Trichlorobenzene	27.40	180	863	N.D.		
95) Naphthalene	27.53	128	275042	2.948	ng	98
96) n-Dodecane	27.52	57	260553	6.817	ng	92
97) Hexachlorobutadiene	27.96	225	108	N.D.		
98) Cyclohexanone	22.01	55	39091	1.635	ng	91
99) tert-Butylbenzene	25.09	119	17753	0.281	ng	91
100) n-Butylbenzene	25.67	91	43280	0.671	ng	# 36

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.577min (+0.017) 15.14ng

response 208617

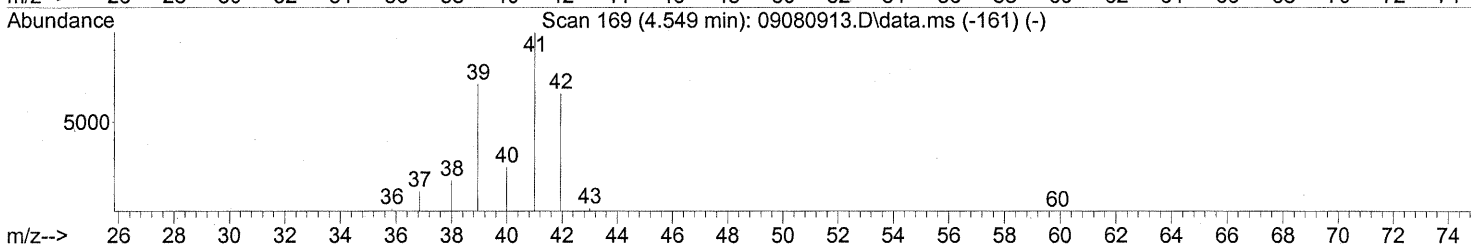
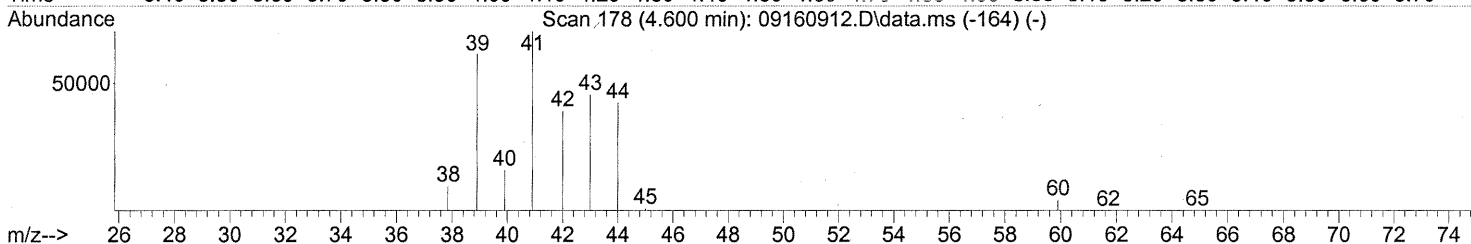
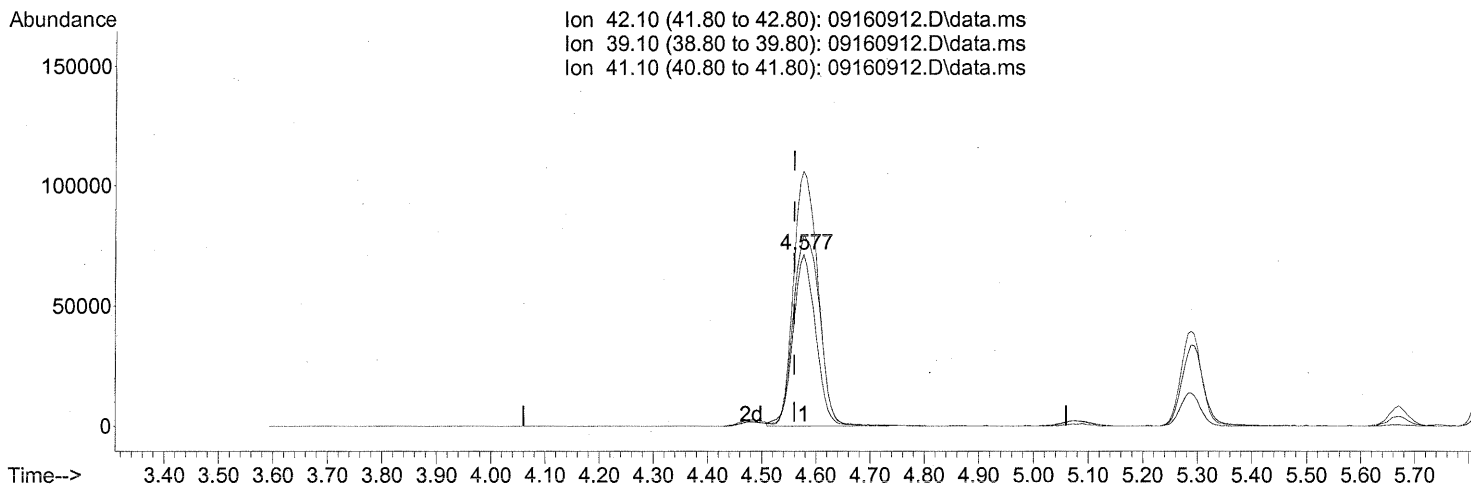
Ion	Exp%	Act%
42.10	100	100
39.10	109.30	128.92
41.10	152.10	159.81
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.577min (+0.017) 15.14ng

response 208617

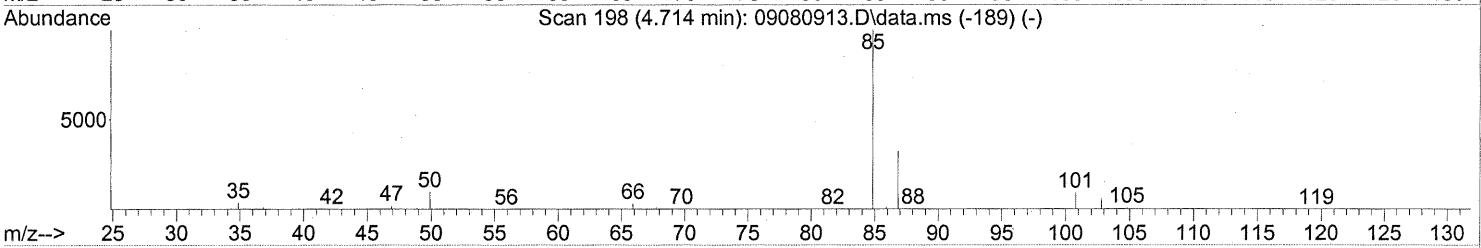
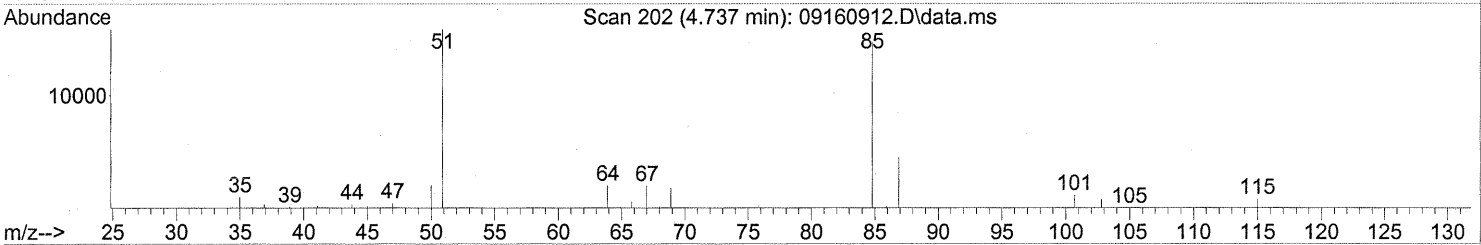
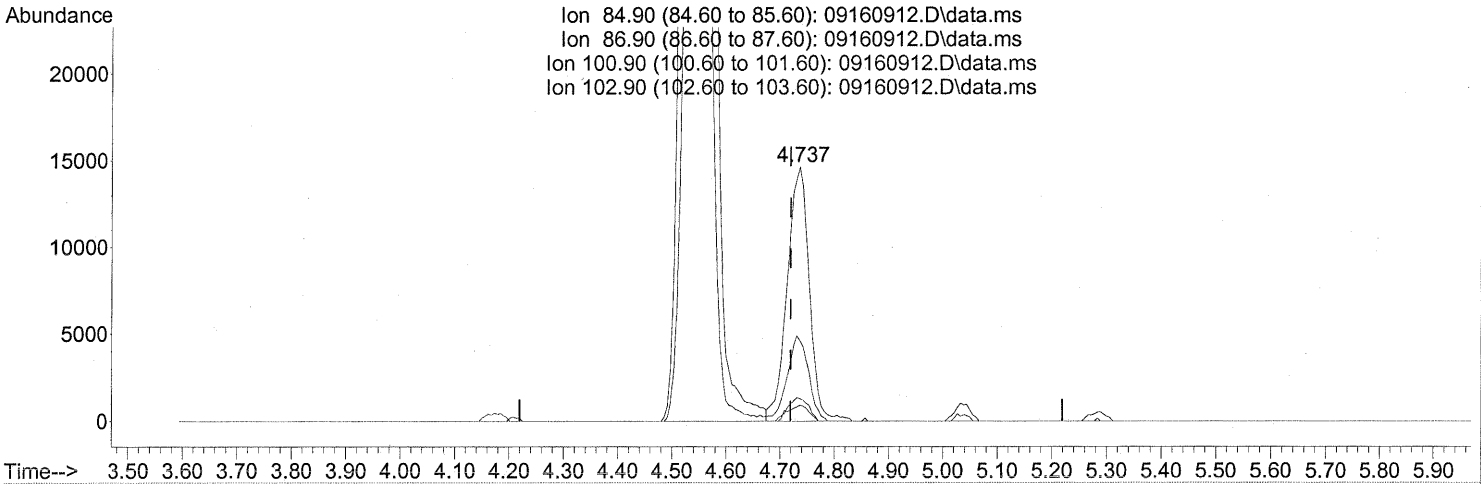
Ion	Exp%	Act%
42.10	100	100
39.10	109.30	128.92
41.10	152.10	159.81
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

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 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.737min (+0.017) 1.57ng

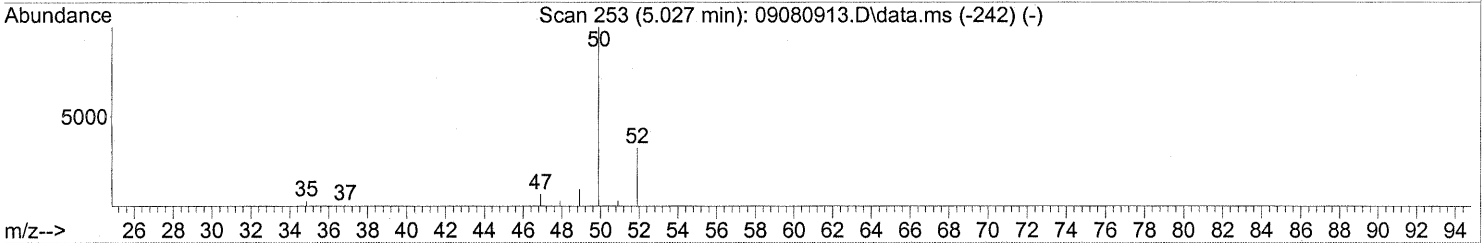
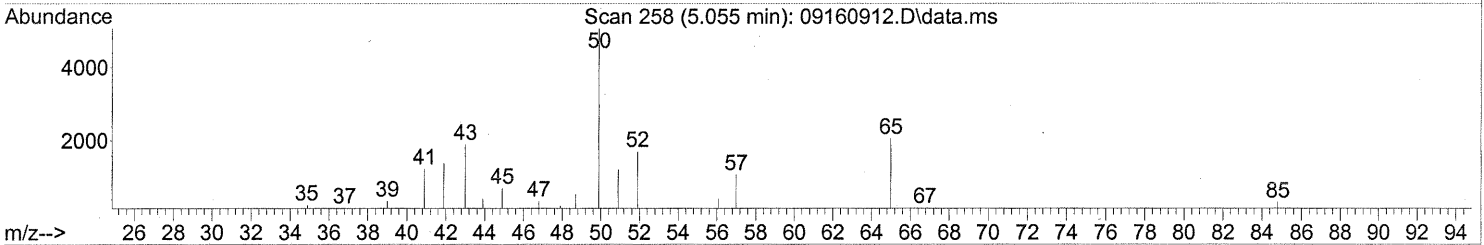
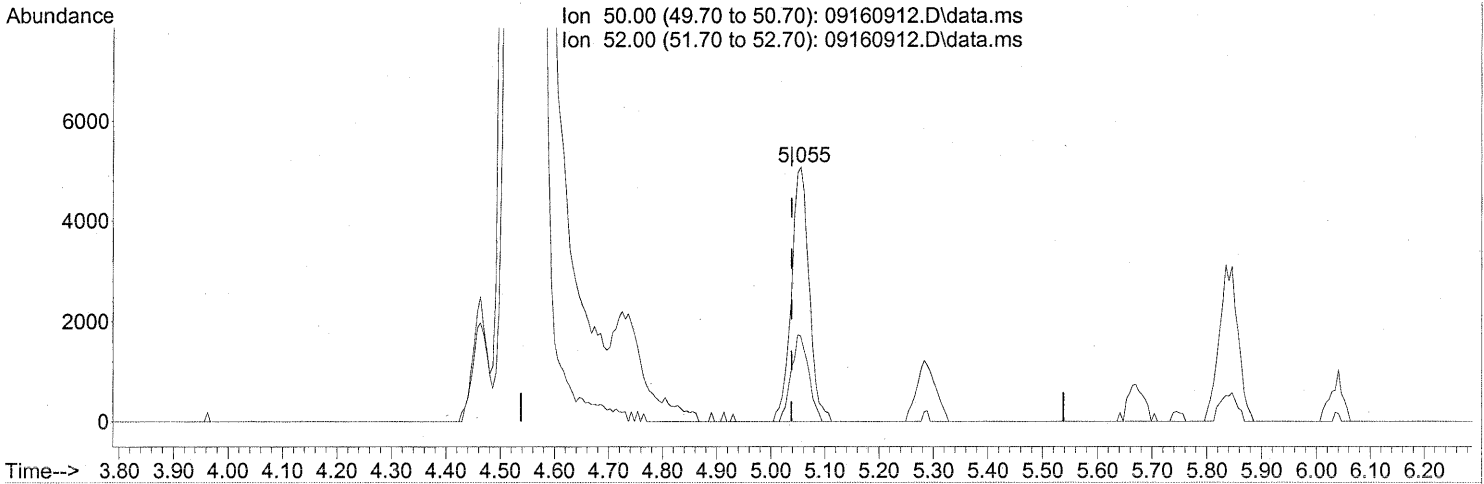
response 41424

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.16
100.90	8.60	8.58
102.90	5.90	5.83

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(4) Chloromethane (T)

5.055min (+0.017) 0.54ng

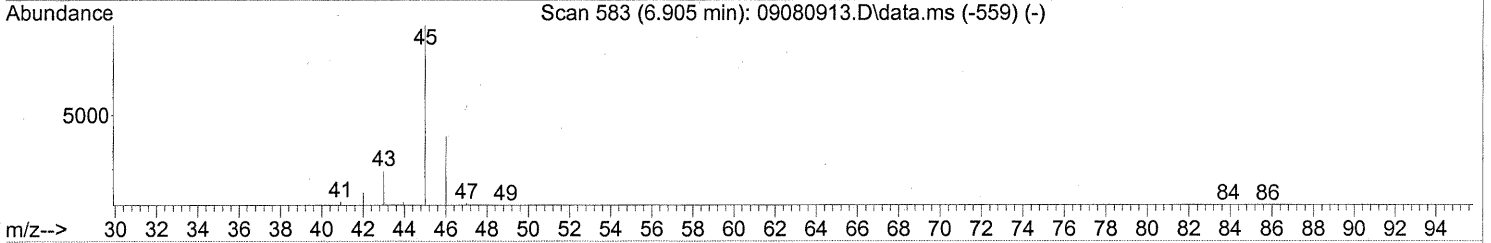
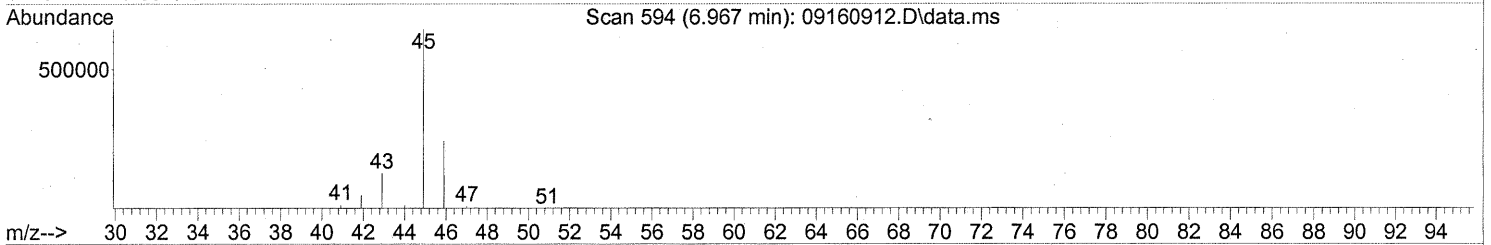
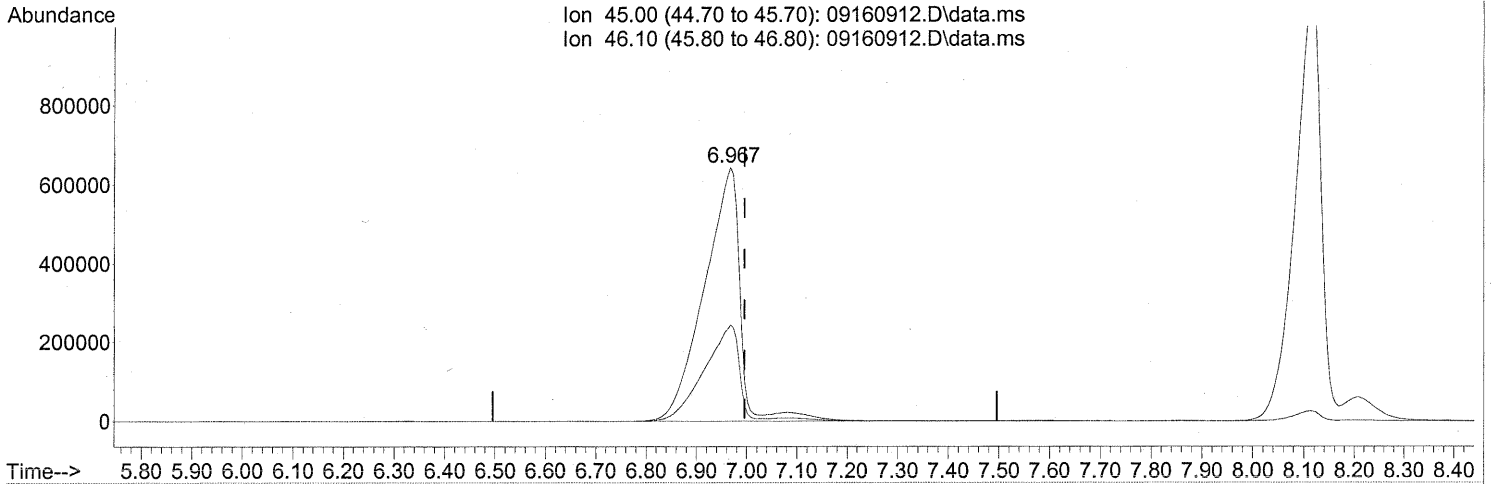
response 11656

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	33.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(10) Ethanol (T)

6.967min (-0.028) 319.49ng

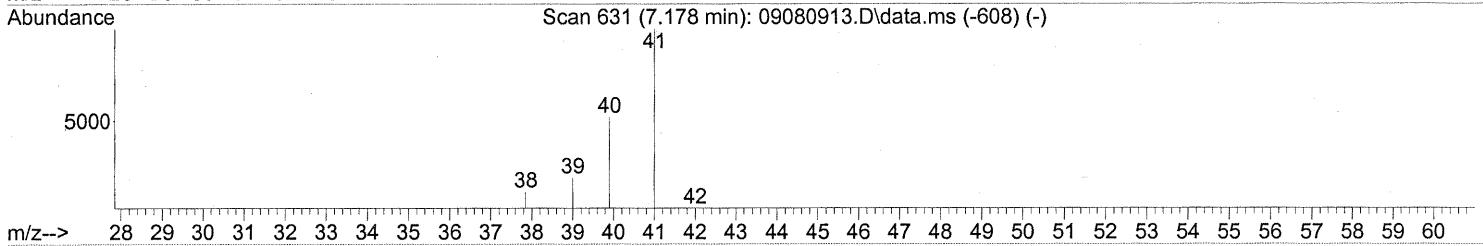
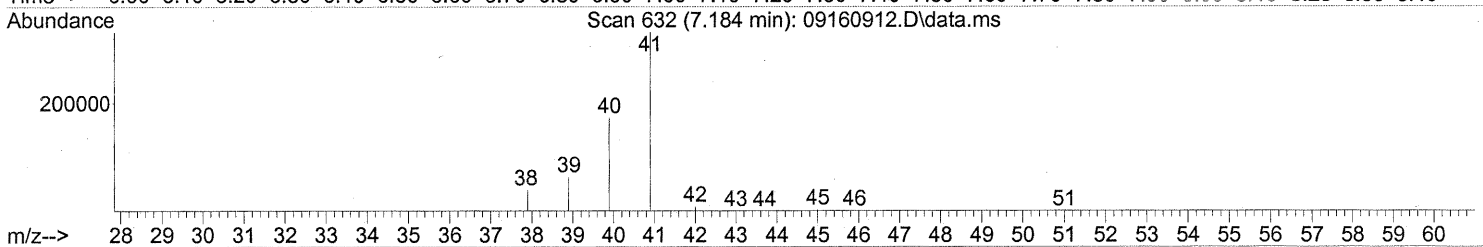
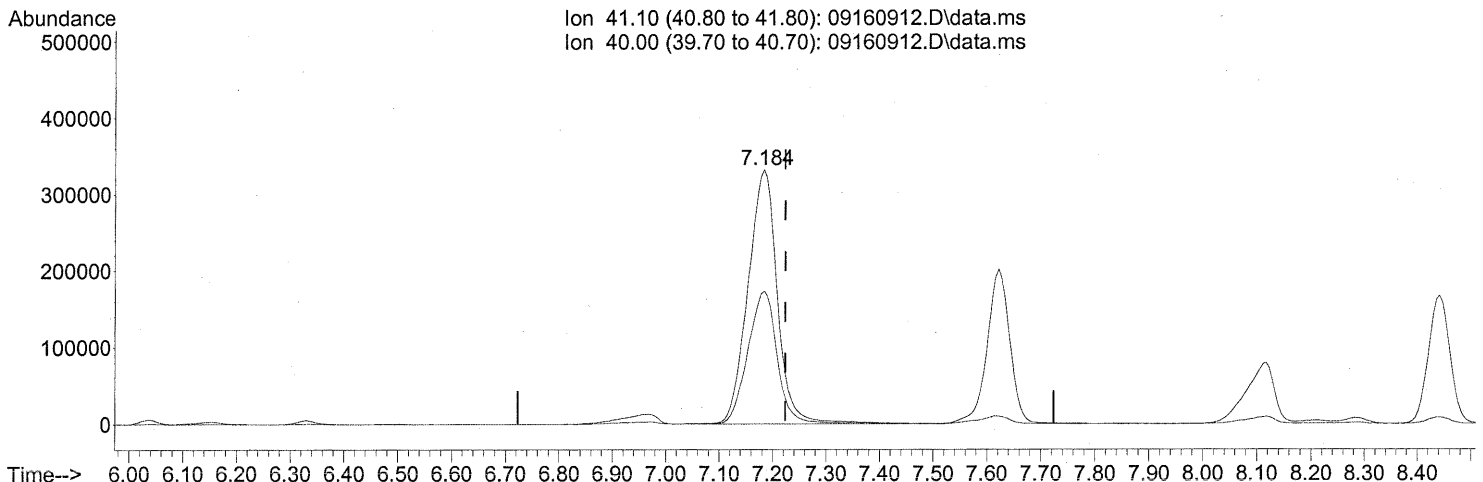
response 3190735

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
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 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(11) Acetonitrile (T)

7.184min (-0.04) 50.10ng

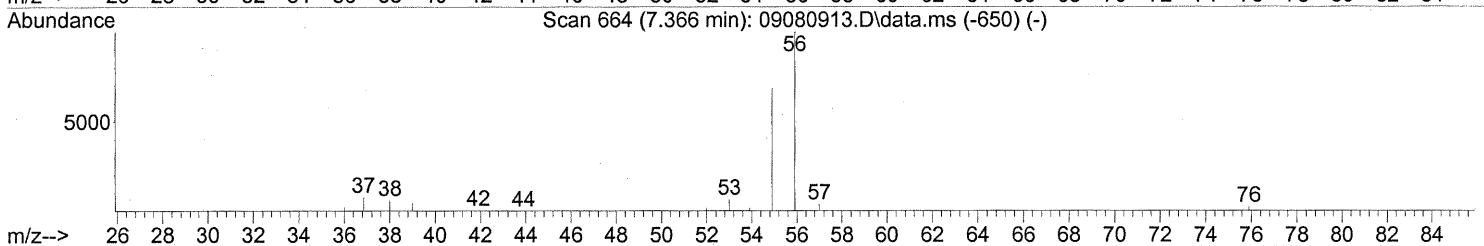
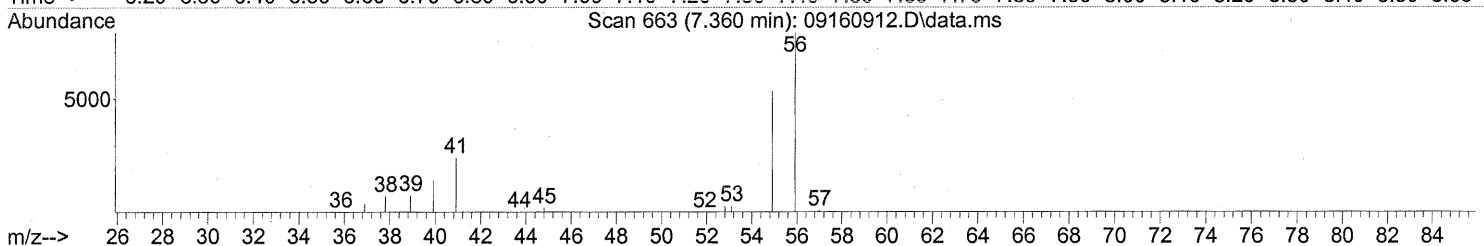
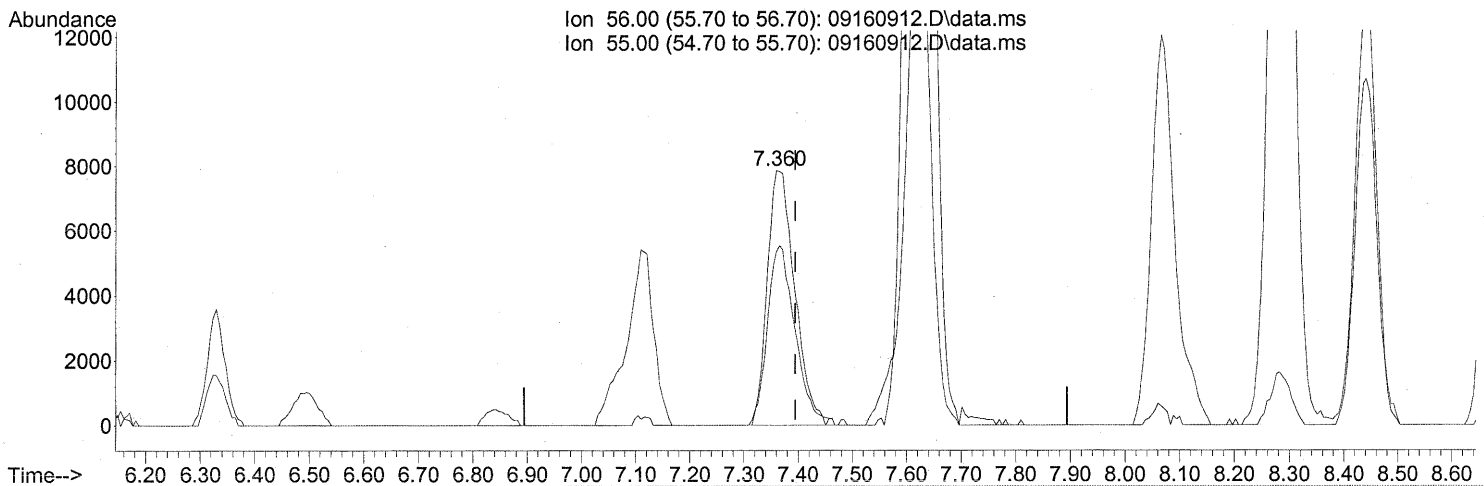
response 1265576

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160912.D
Acq On : 16 Sep 2009 16:10
Operator : LH
Sample : P0903145-008 (700mL)
Misc : Environmental H & E 102717
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160912.D\data.ms

(12) Acrolein (T)

7.360min (-0.034) 3.75ng

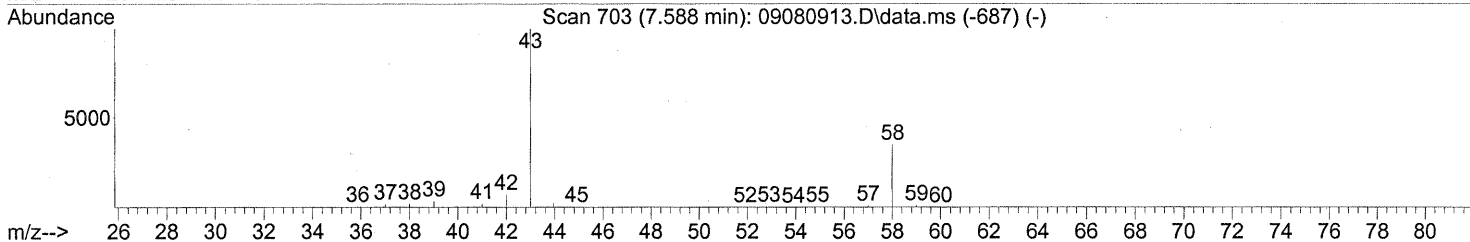
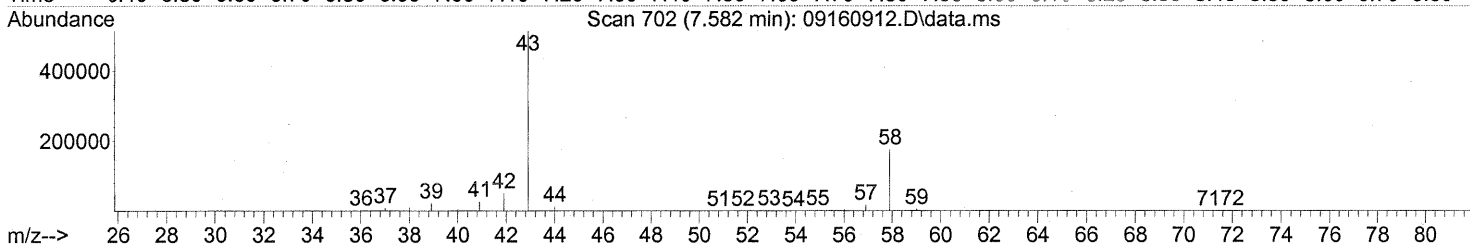
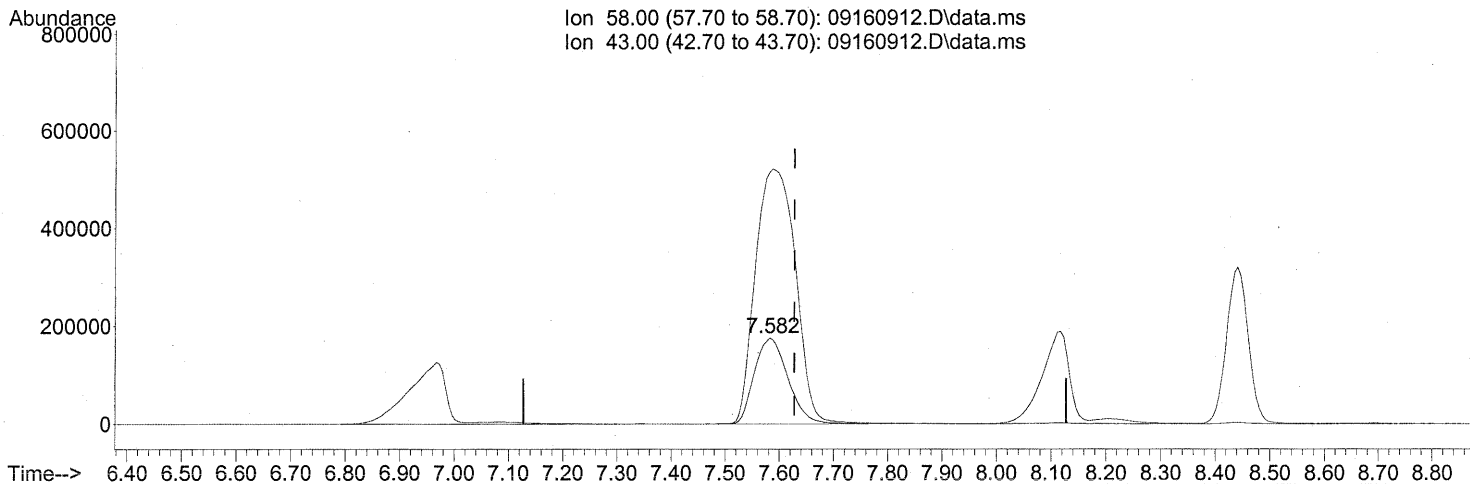
response 27843

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	69.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.582min (-0.045) 75.15ng *M*

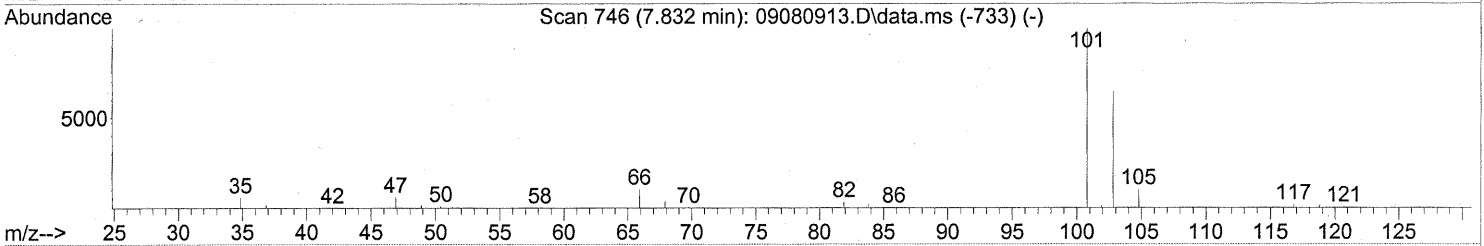
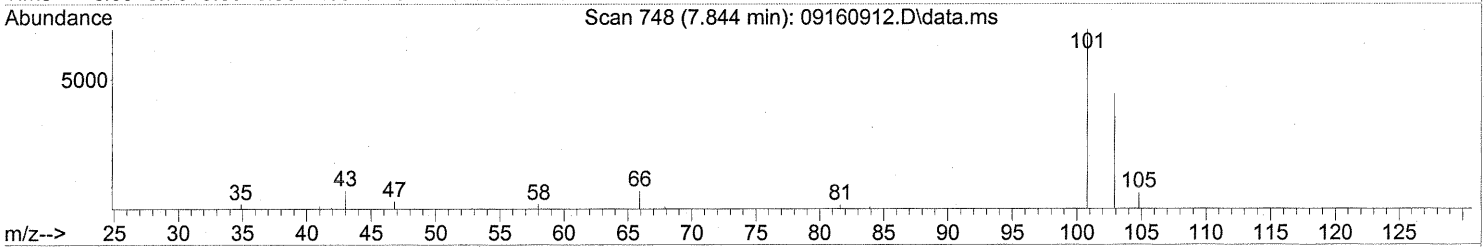
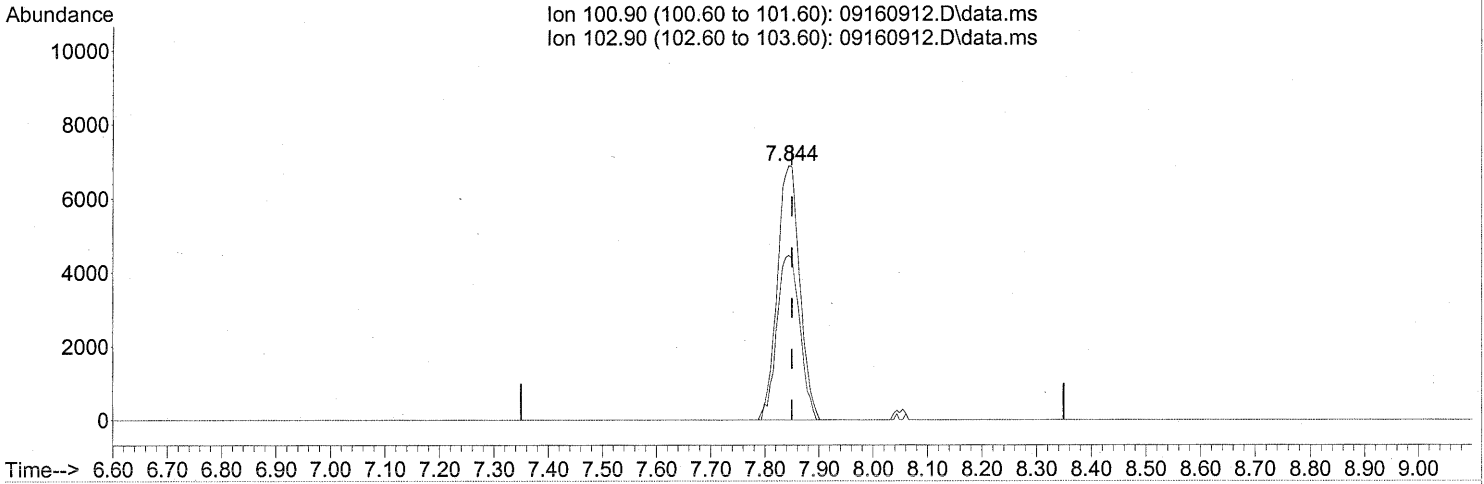
response 756155

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	354.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(14) Trichlorofluoromethane (T)

7.844min (-0.006) 0.81ng

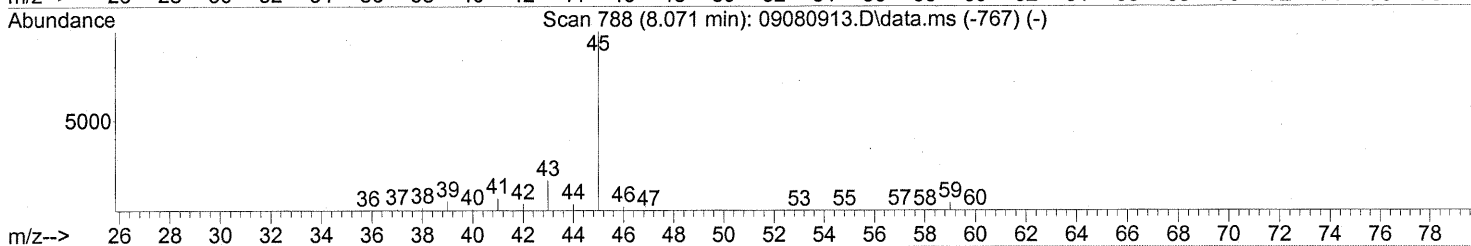
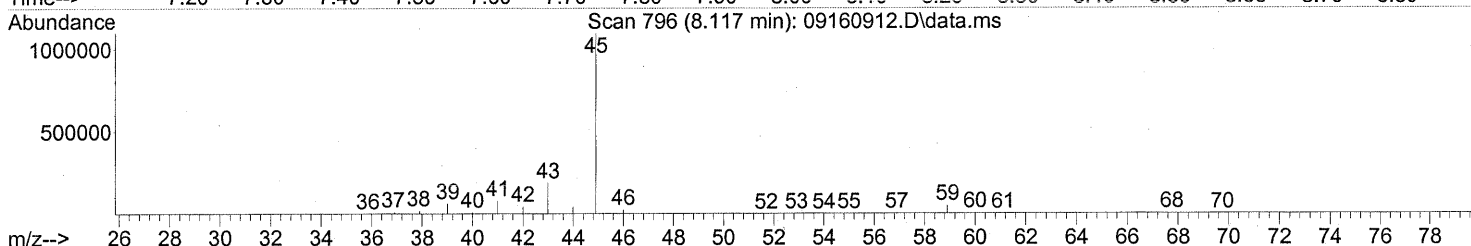
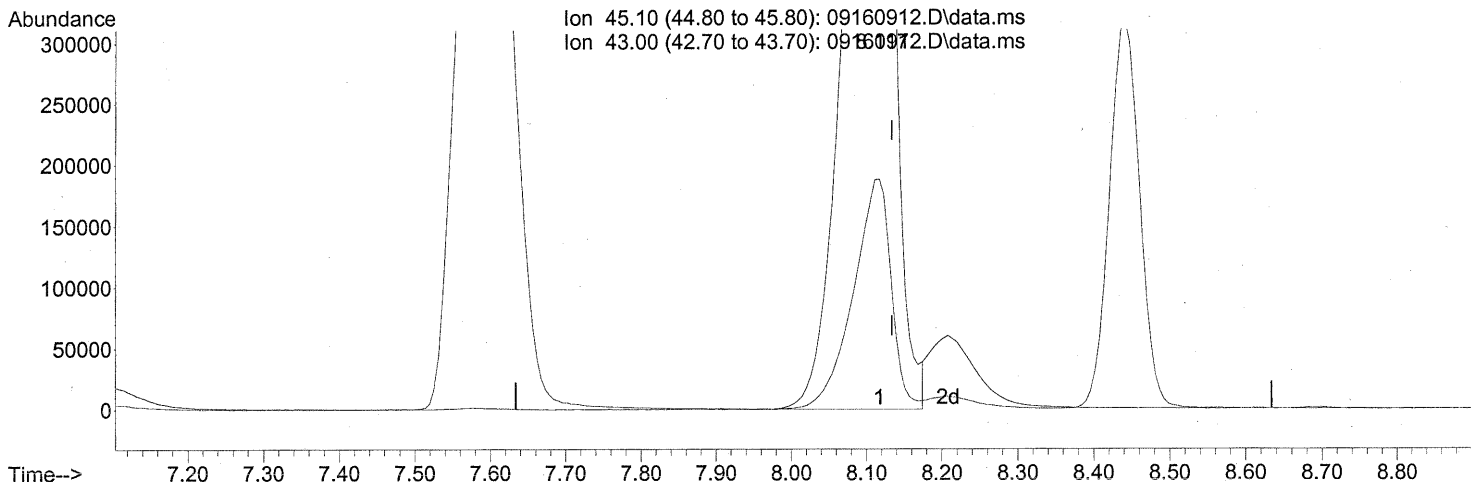
response 19796

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	66.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 16:06:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.117min (-0.017) 110.20ng

response 3818835

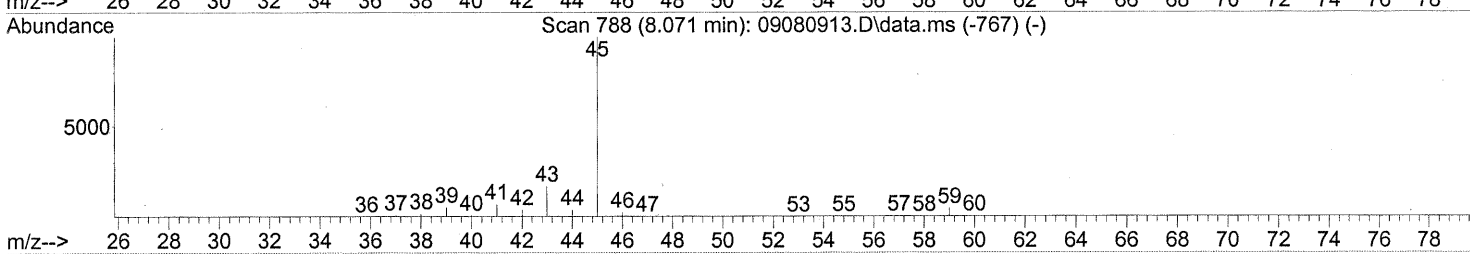
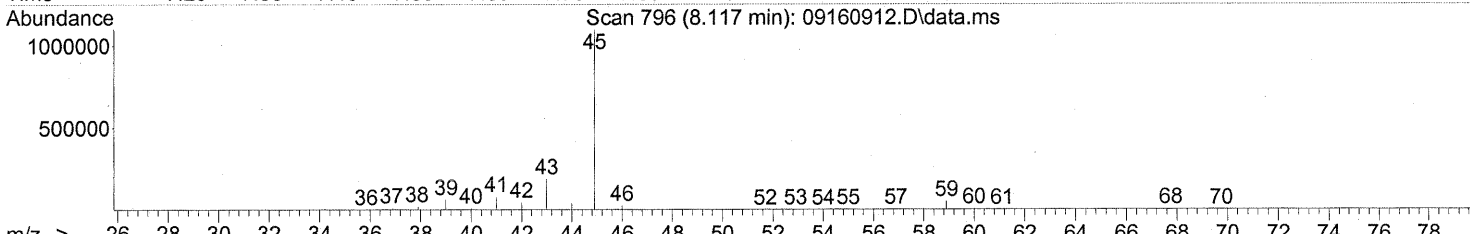
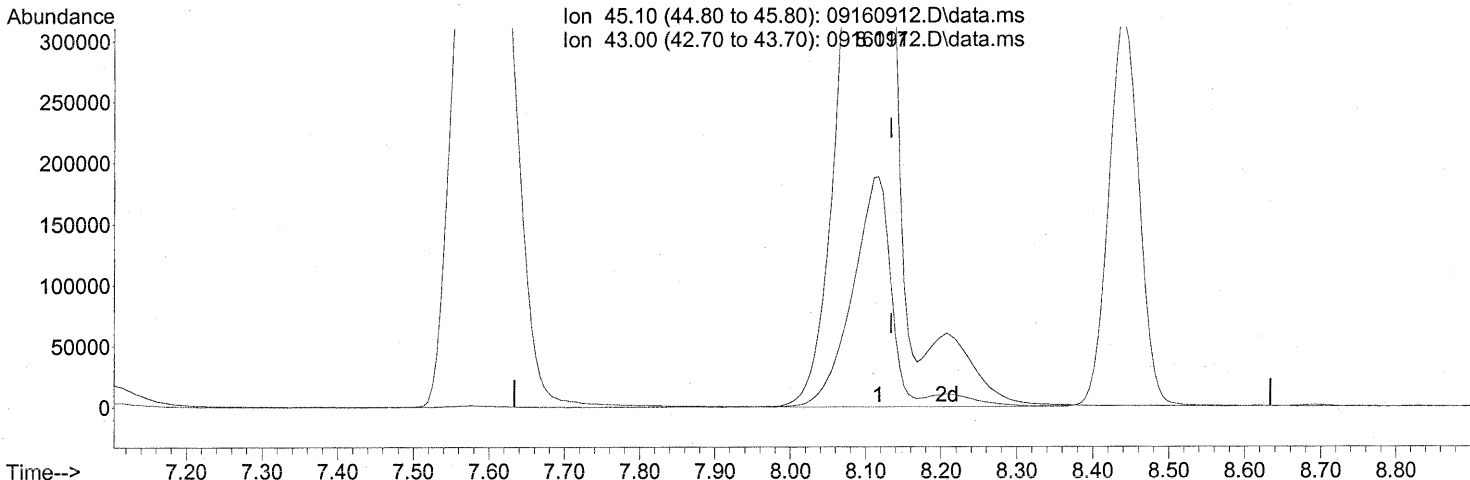
PT

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 18 16:06:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.117min (-0.017) 117.72ng m

response 4079327

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.08
0.00	0.00	0.00
0.00	0.00	0.00

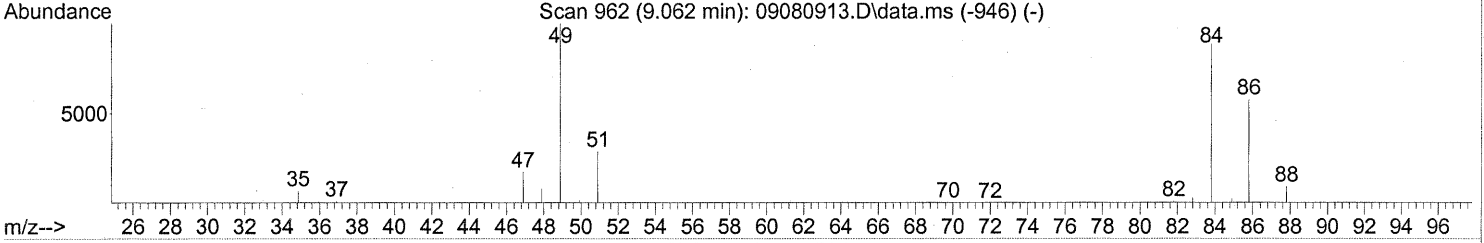
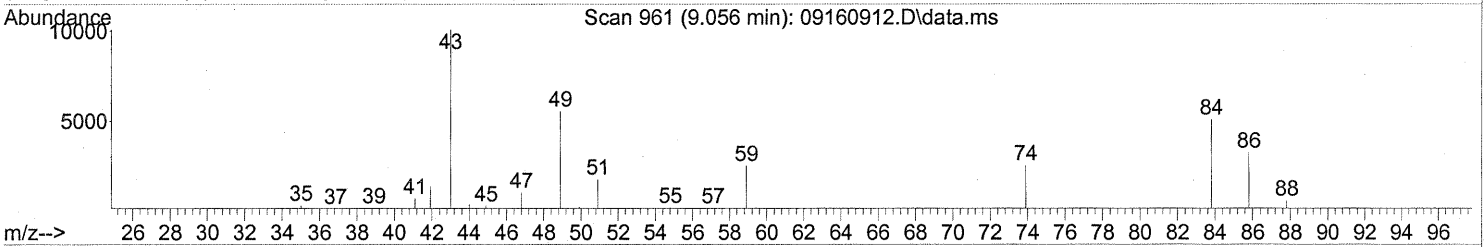
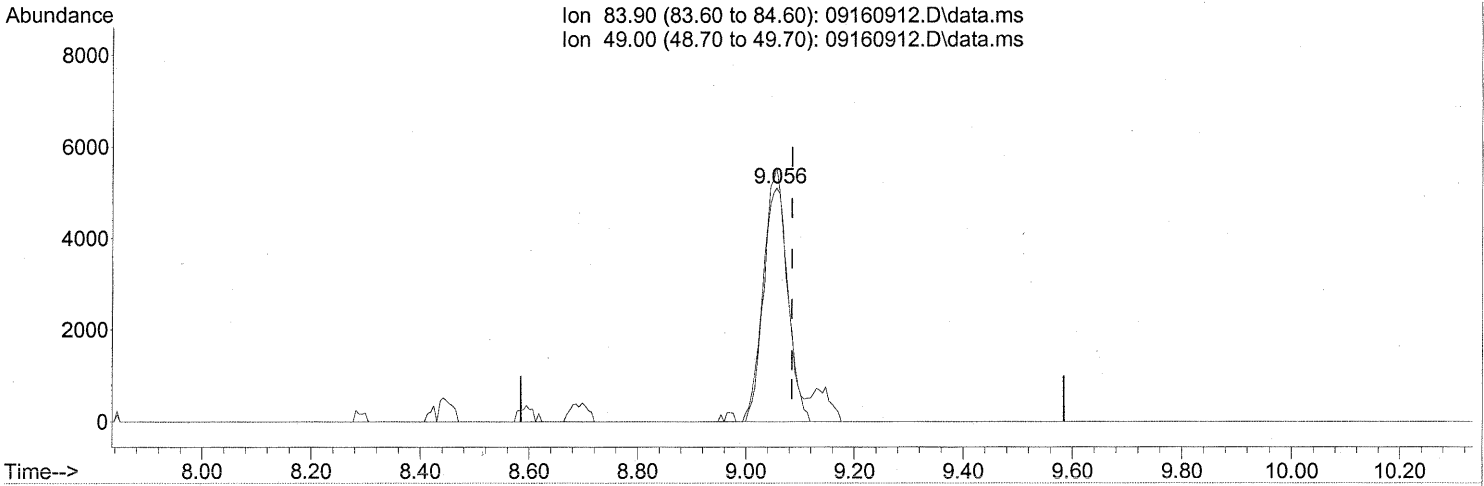
*PT → IC
 in 9/18/09*

PTA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.056min (-0.028) 1.05ng

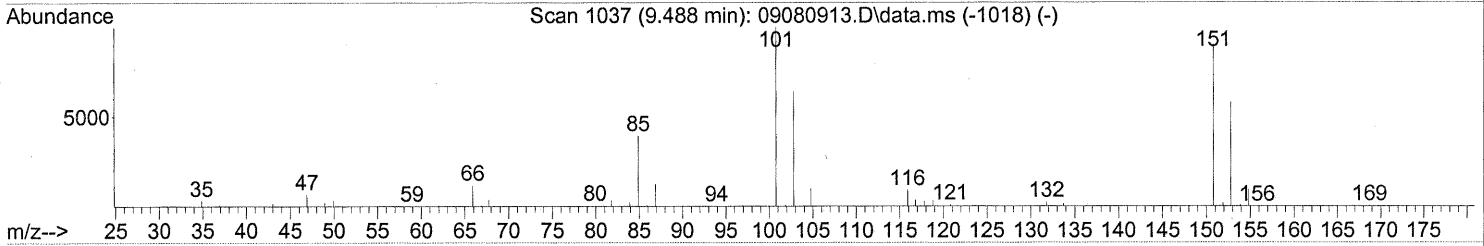
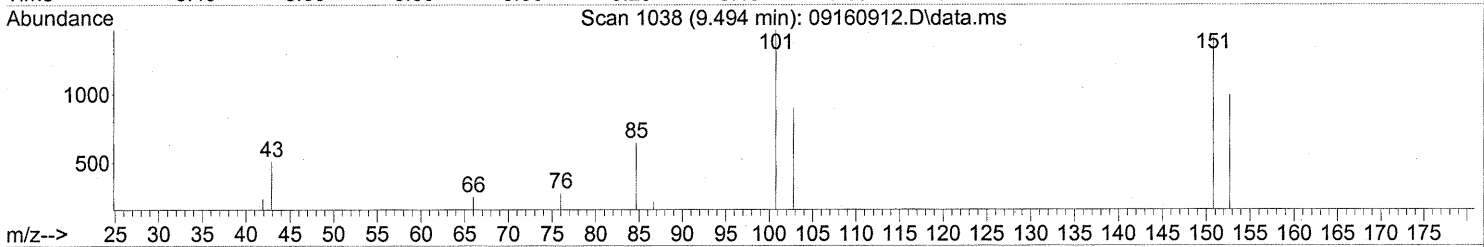
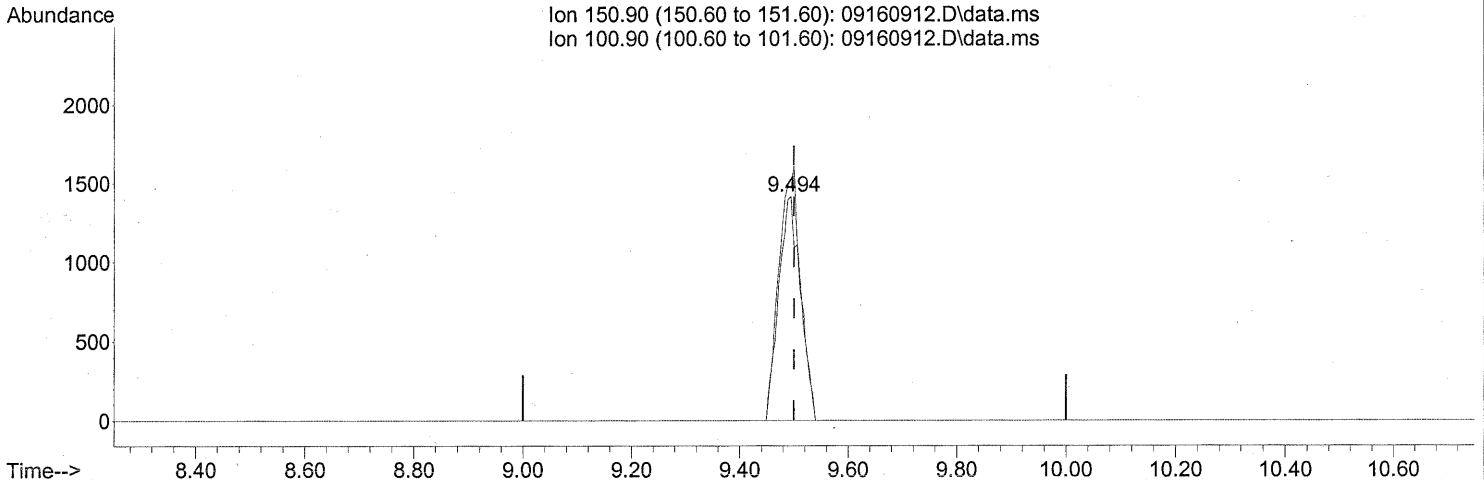
response 16041

Ion	Exp%	Act%
83.90	100	100
49.00	133.30	108.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.494min (-0.006) 0.33ng

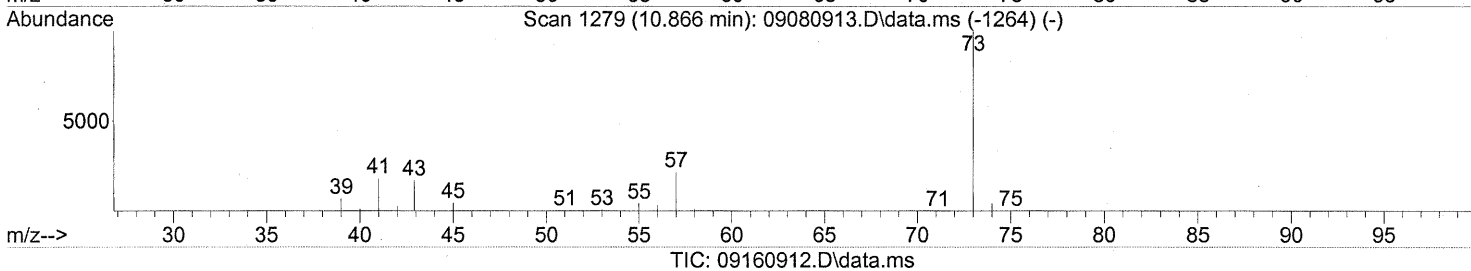
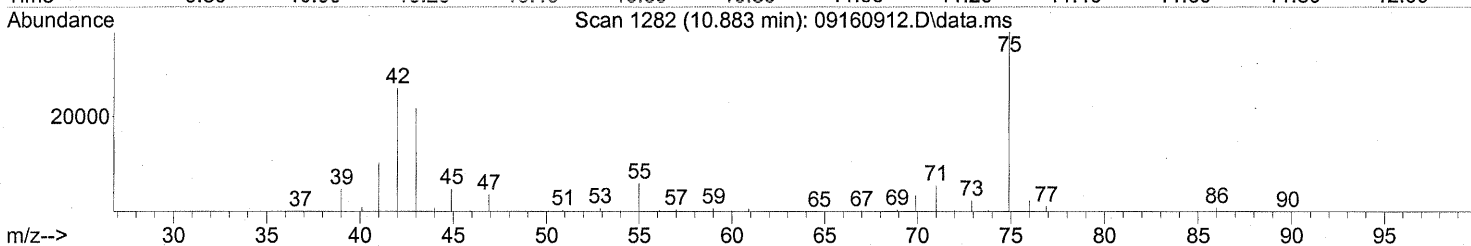
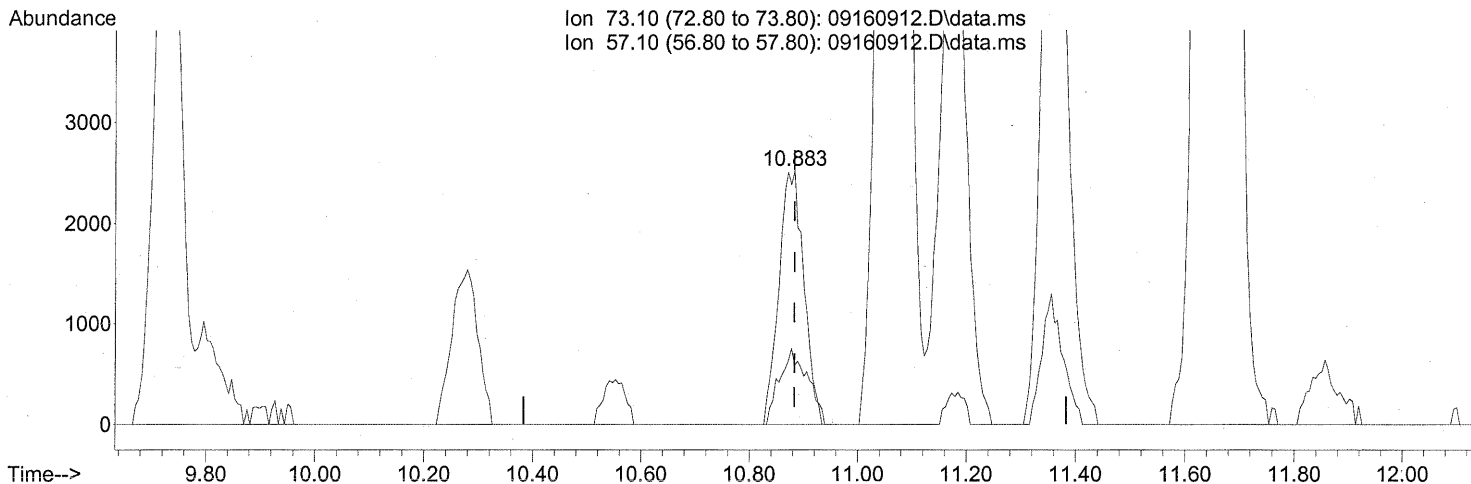
response 3953

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	111.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

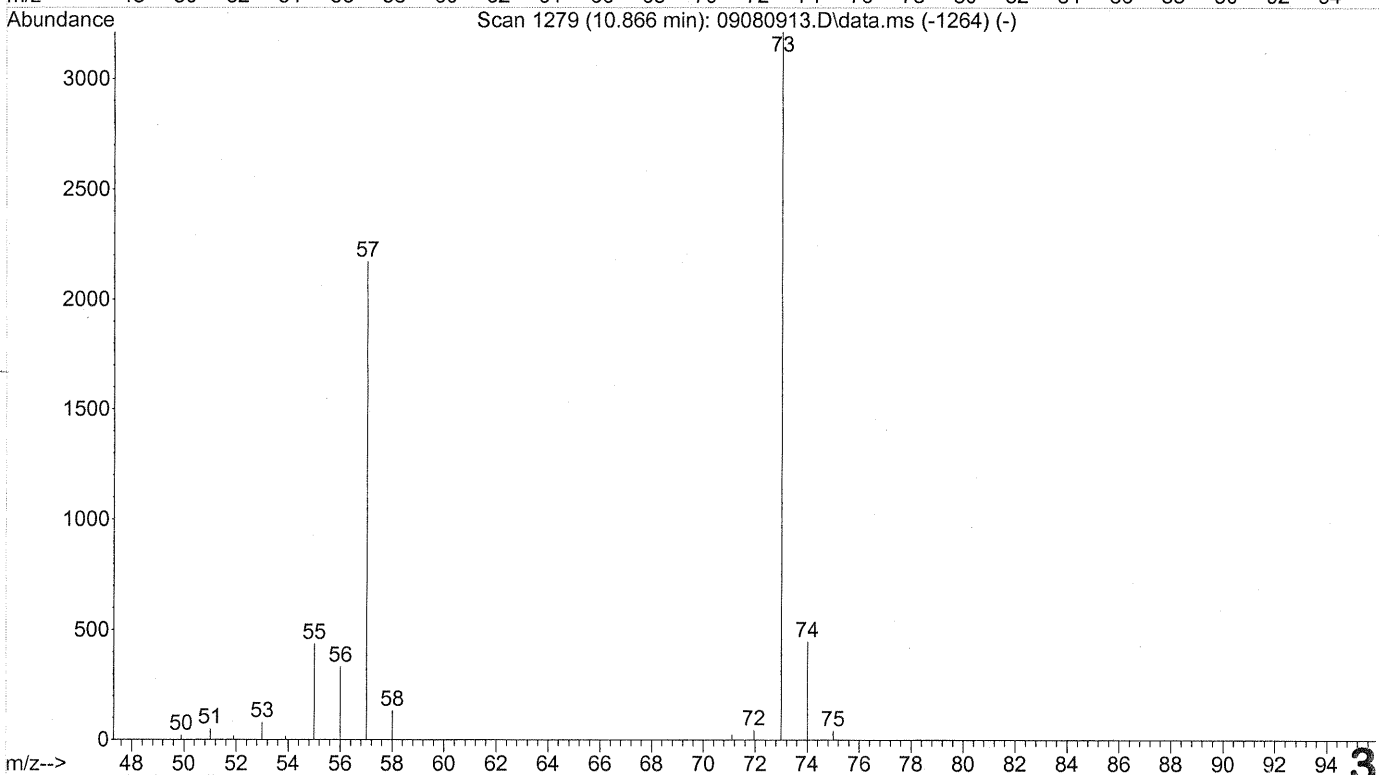
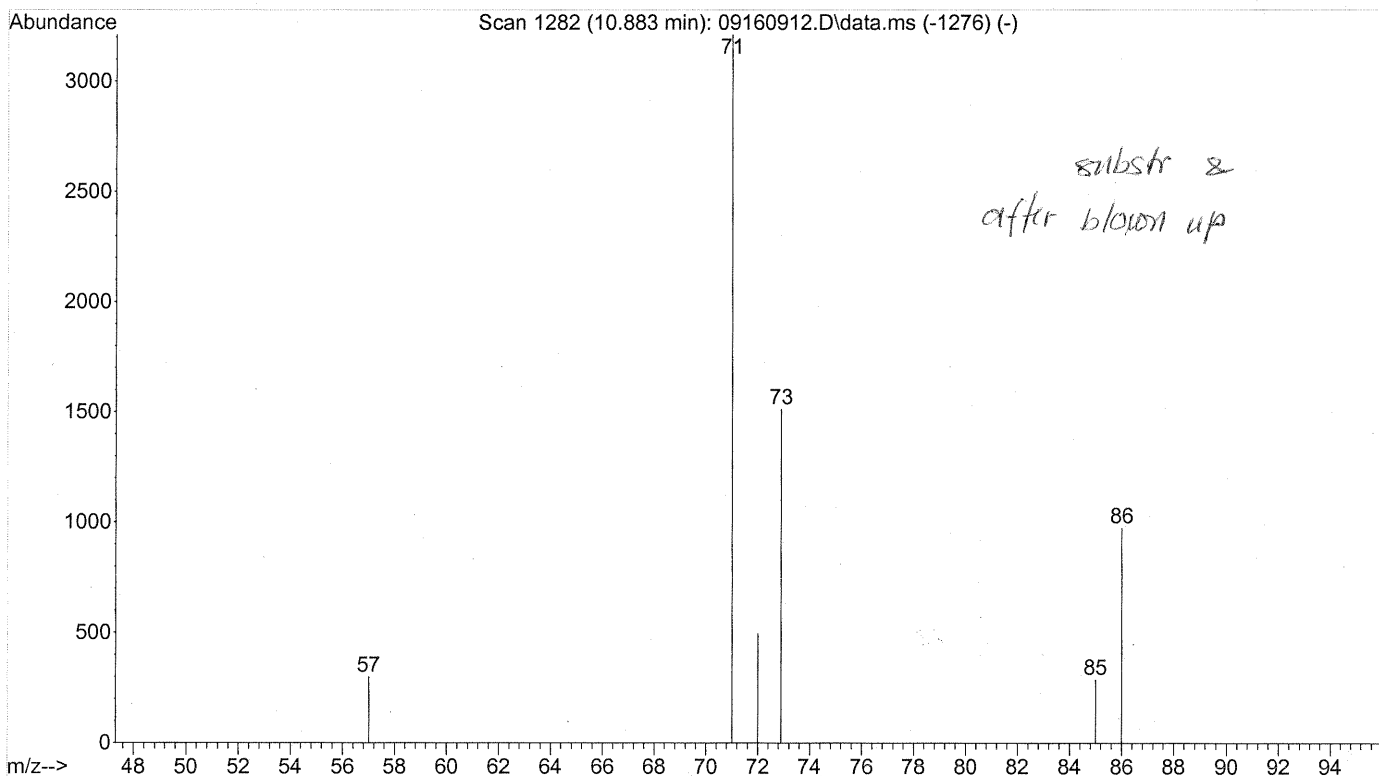
10.883min (+0.000) 0.21ng

response 8054

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	33.57
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

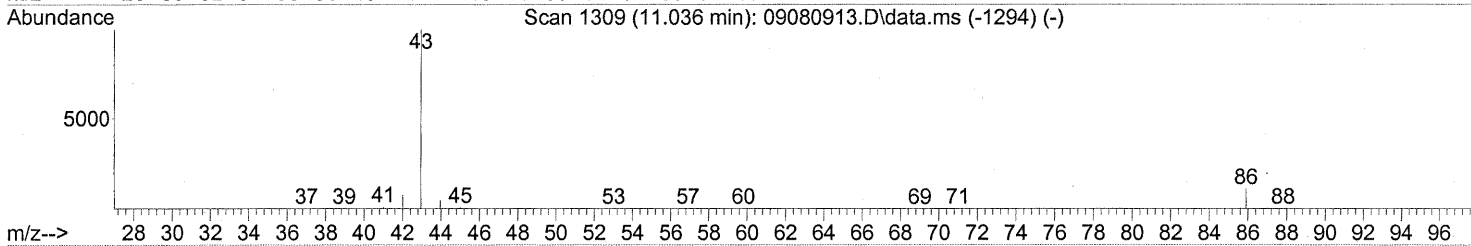
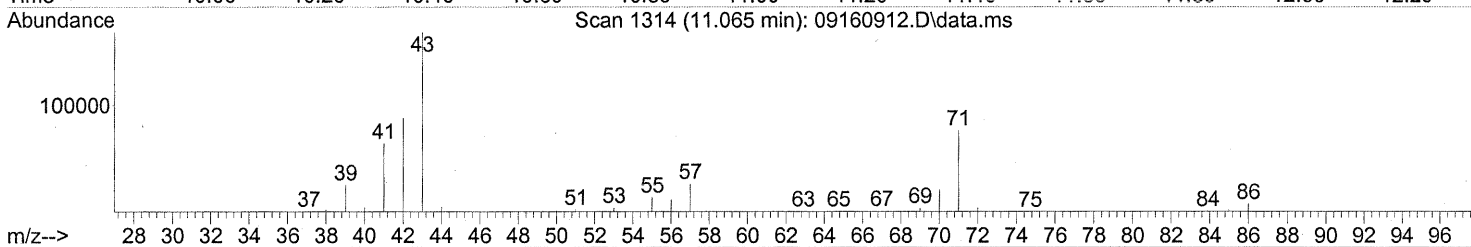
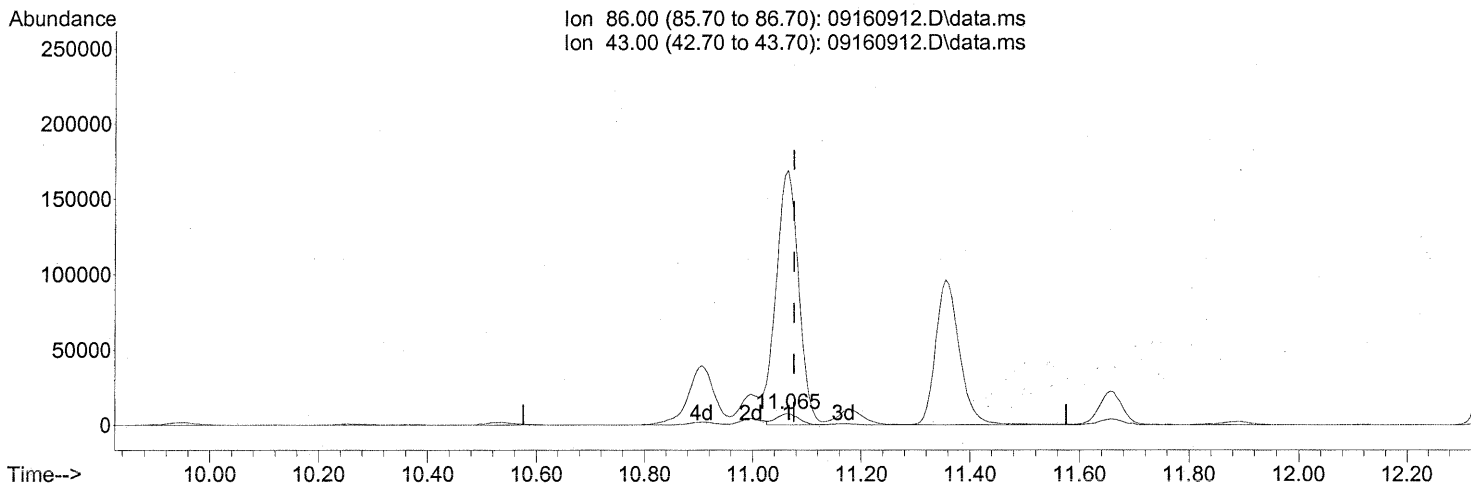
File :J:\MS16\DATA\2009_09\16\09160912.D
Operator : LH
Acquired : 16 Sep 2009 16:10 using AcqMethod TO15LT.M
Instrument : GCMS-16
Sample Name: P0903145-008 (700mL)
Misc Info : Environmental H & E 102717
Vial Number: 14



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.065min (-0.011) 7.11ng
 response 21548

FP LH 9/18/09

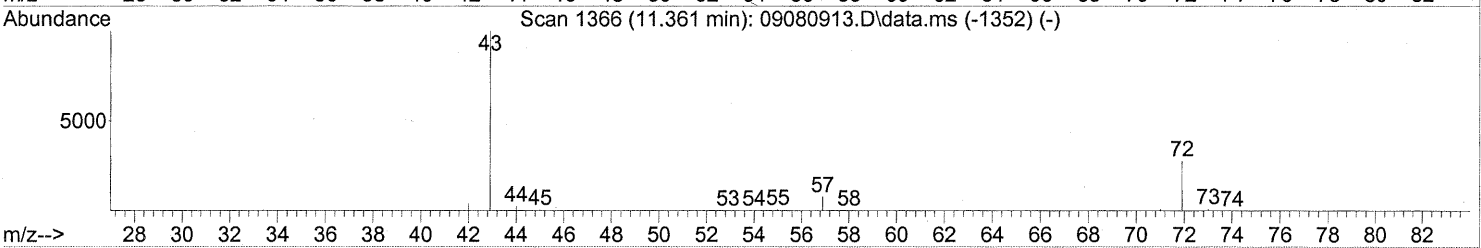
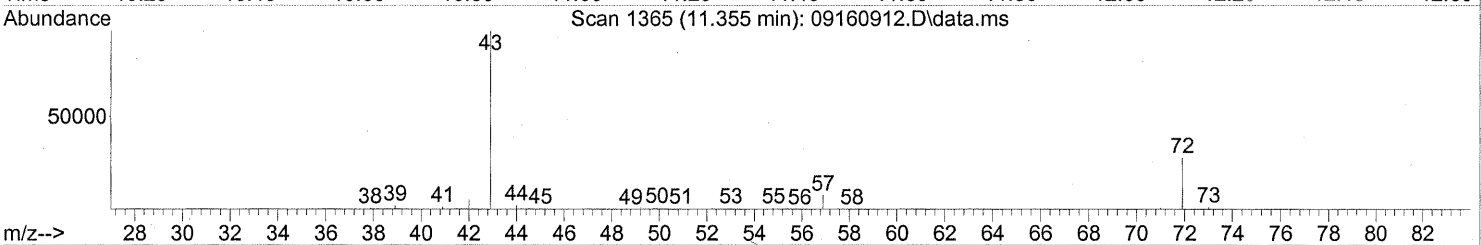
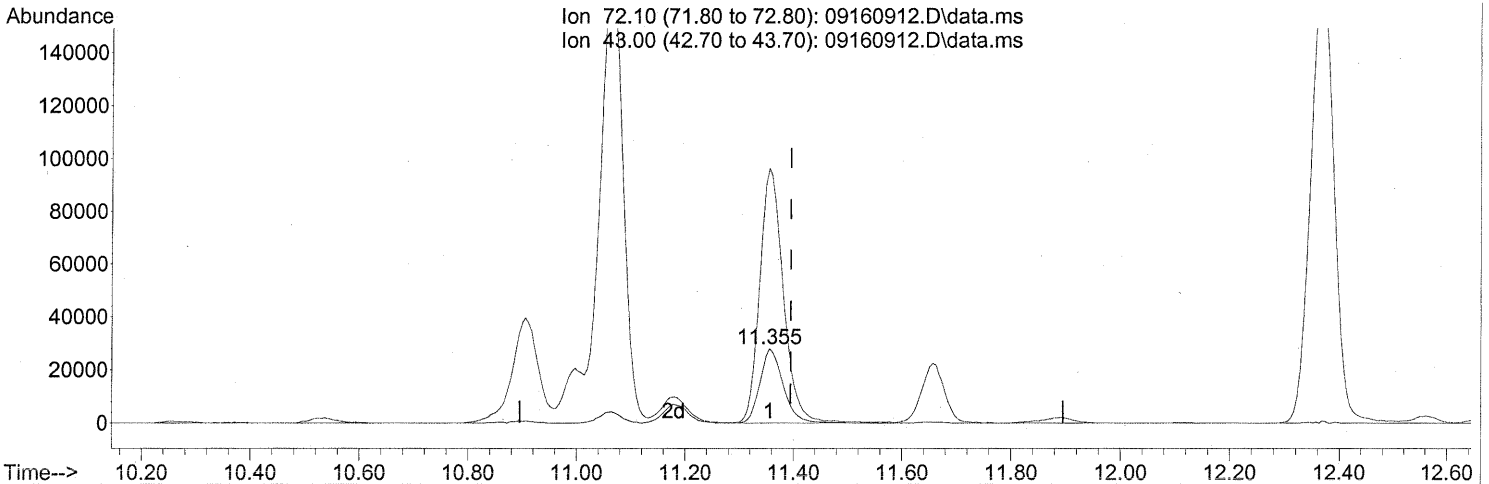
Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2285.83#
0.00	0.00	0.00
0.00	0.00	0.00

DA 9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(27) 2-Butanone (MEK) (T)

11.355min (-0.040) 8.61ng

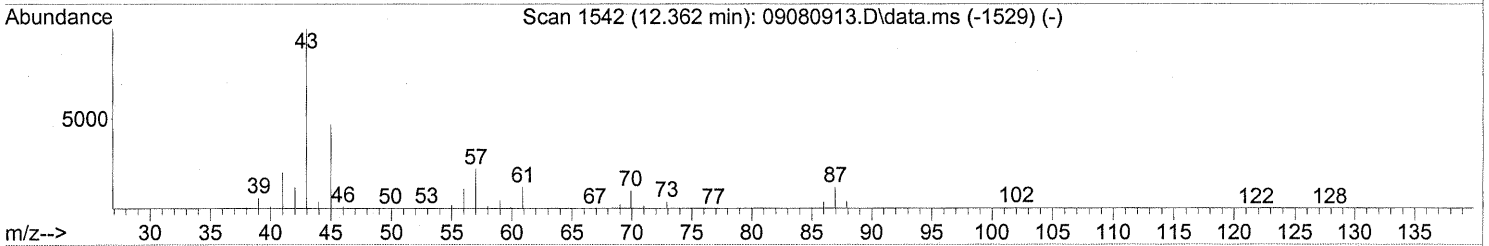
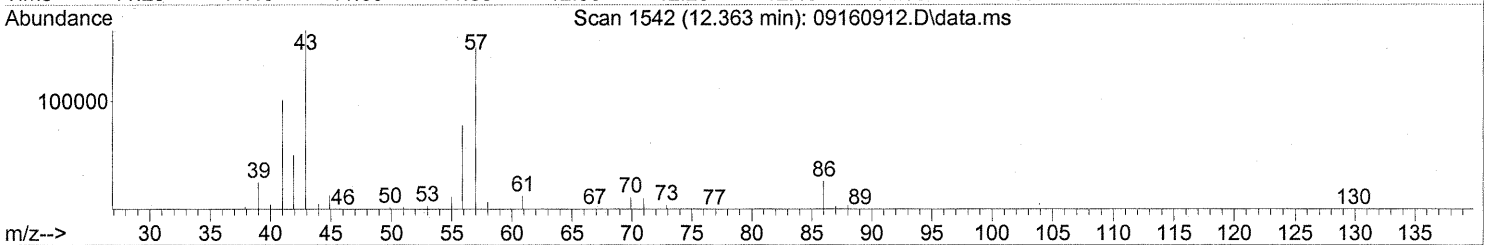
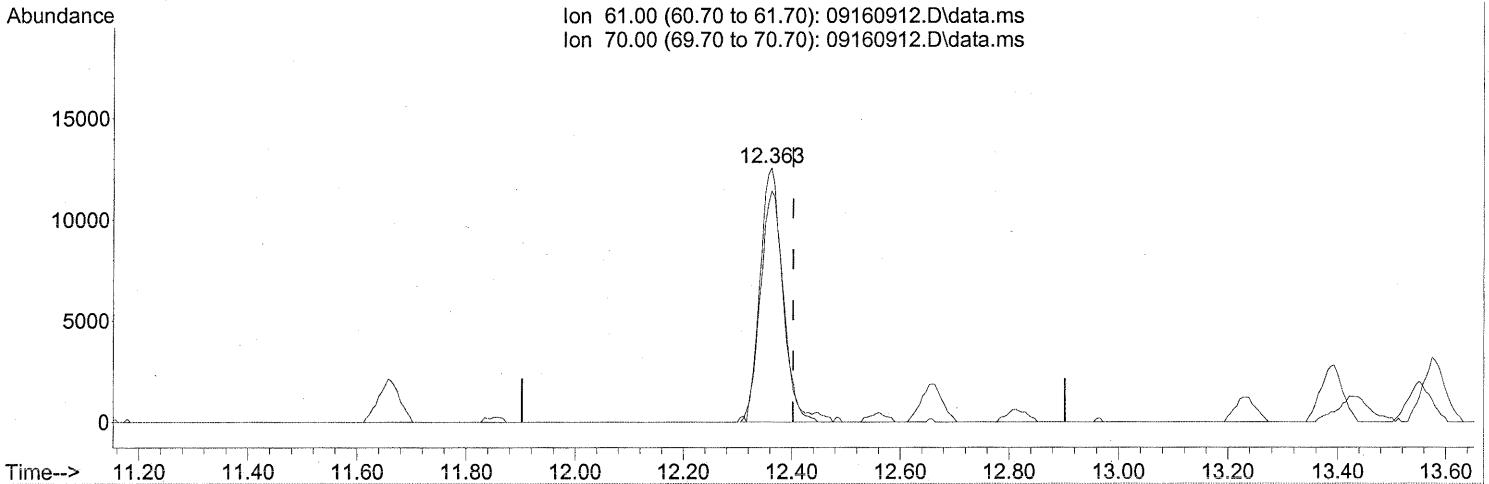
response 83249

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	348.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



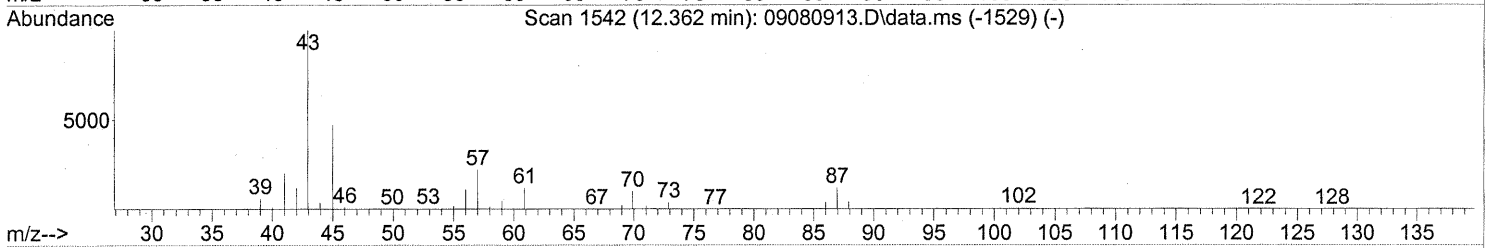
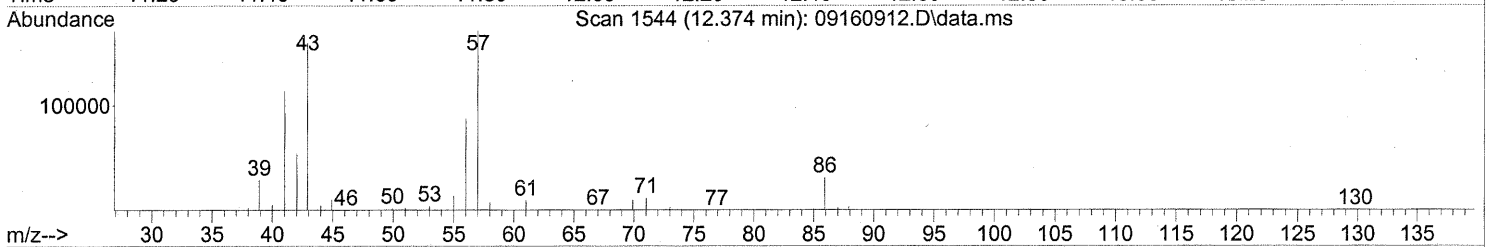
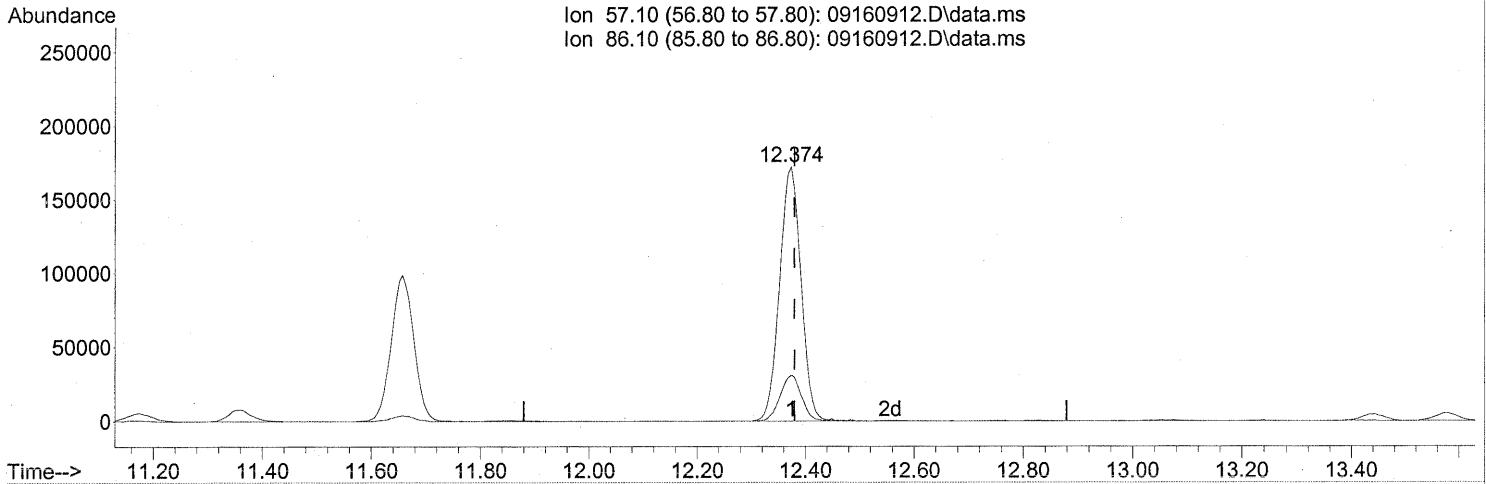
(30) Ethyl Acetate (T)
 12.363min (-0.040) 7.35ng
 response 36082

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	96.39#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

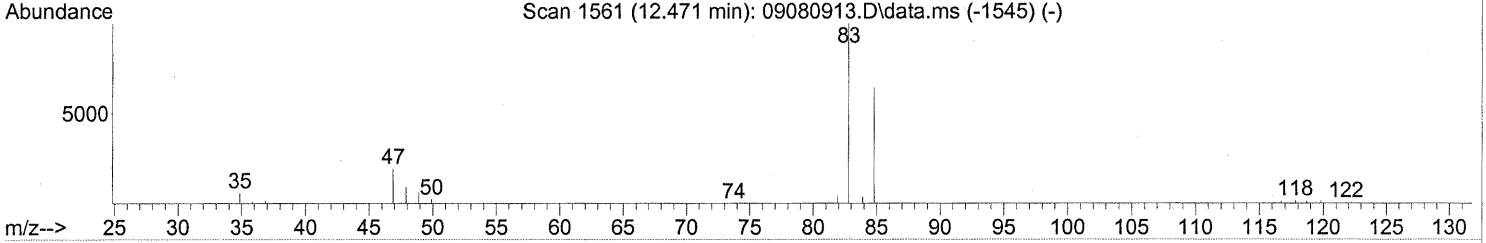
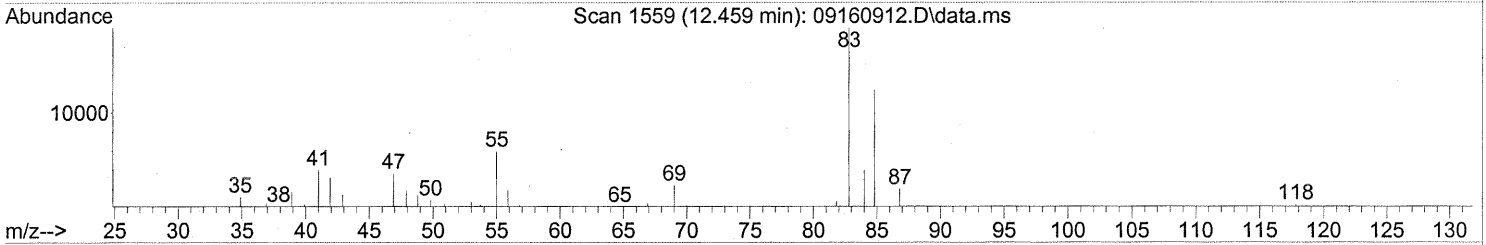
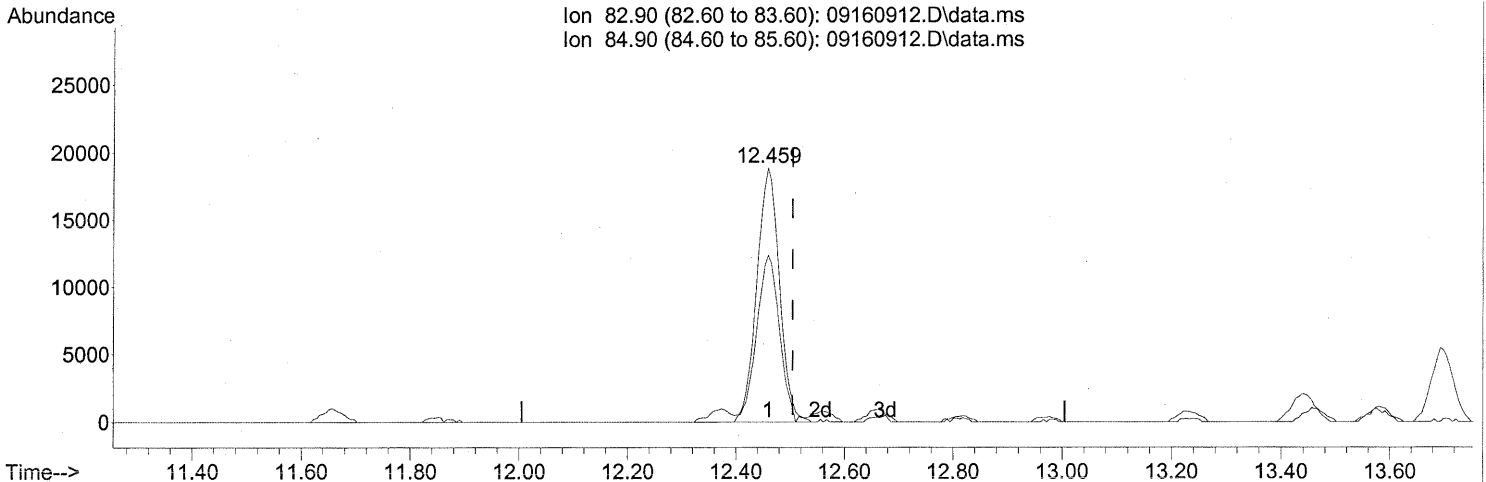
(31) n-Hexane (T)
 12.374min (-0.006) 24.30ng
 response 472267

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	17.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.459min (-0.045) 2.30ng

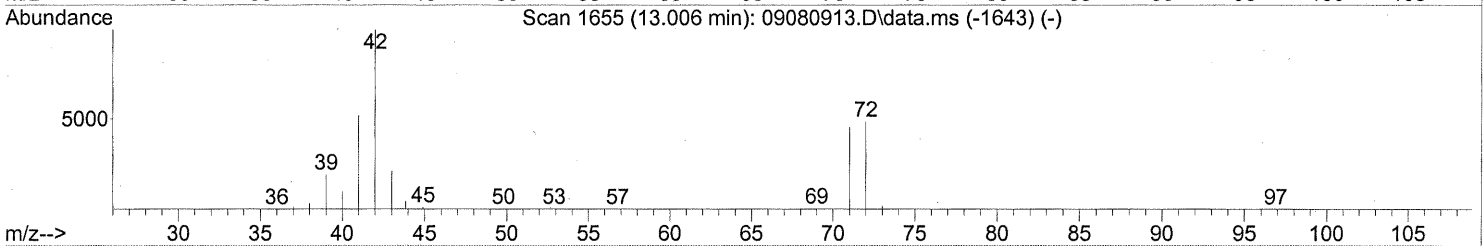
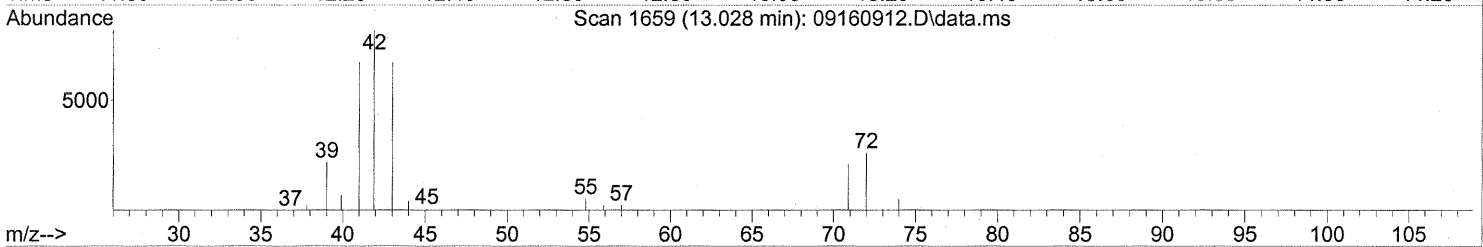
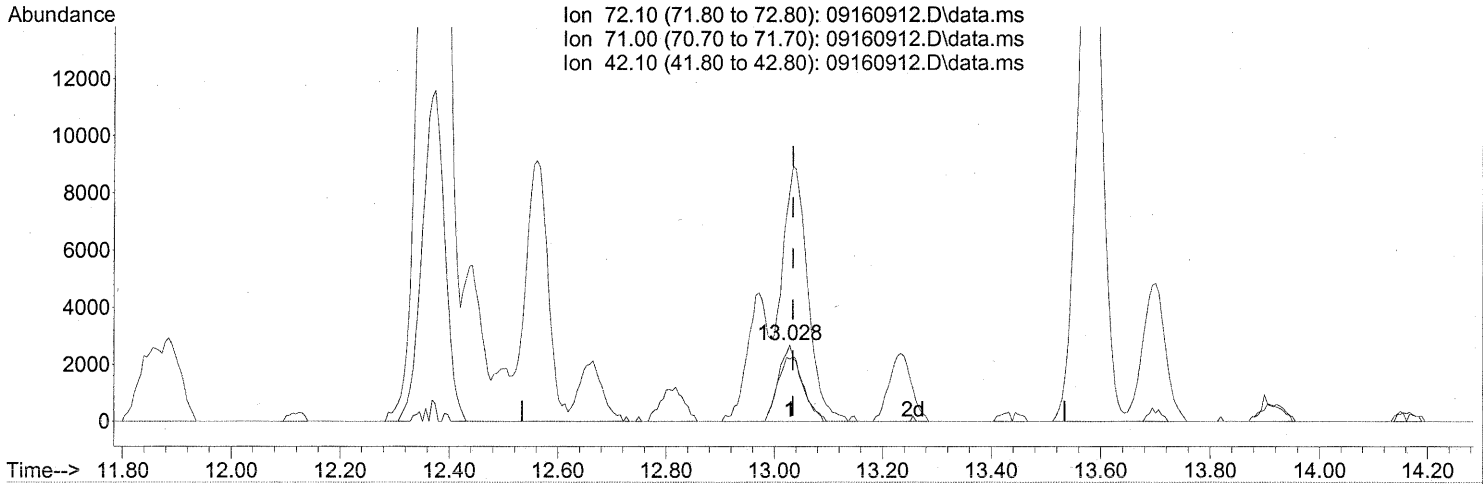
response 54855

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	66.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.028min (-0.006) 0.89ng

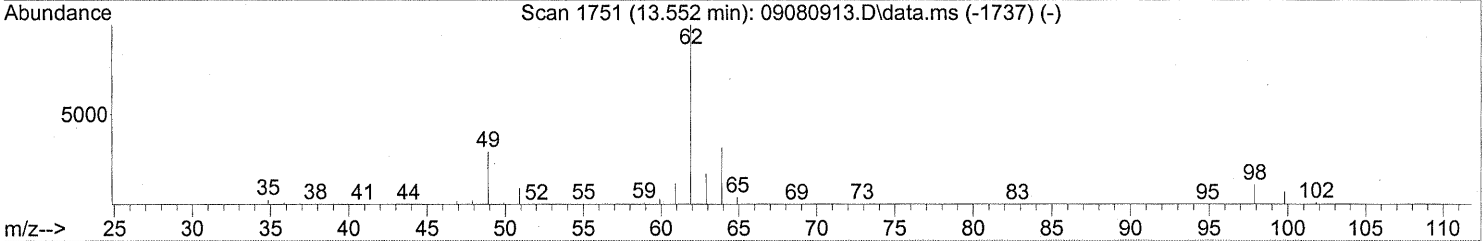
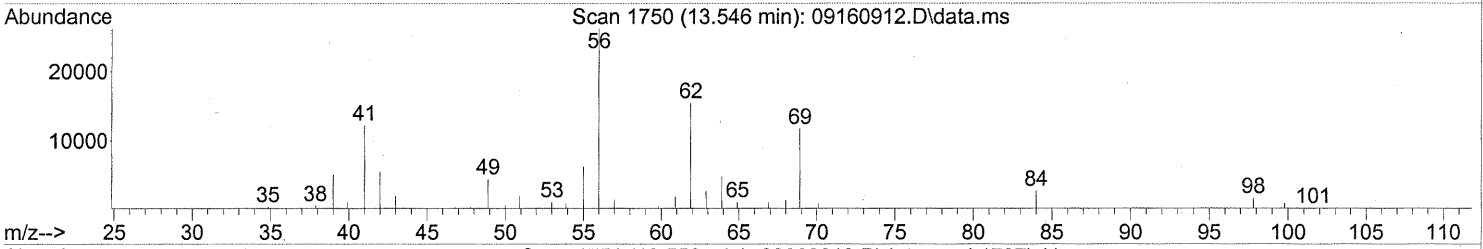
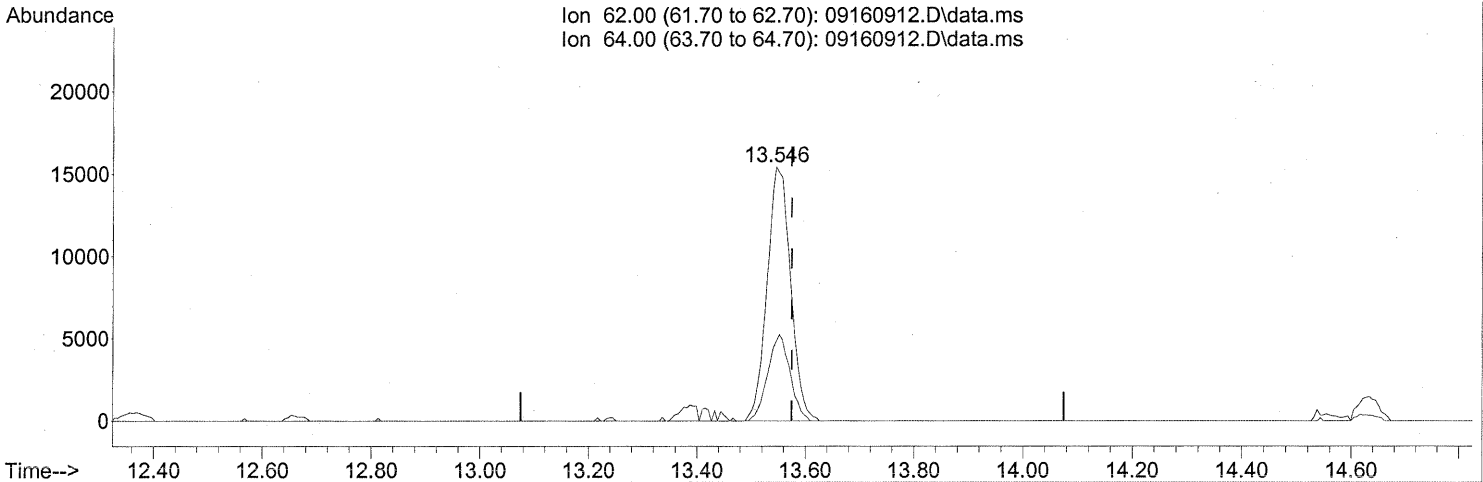
response 7962

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	93.33
42.10	240.00	376.19#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.028) 2.83ng

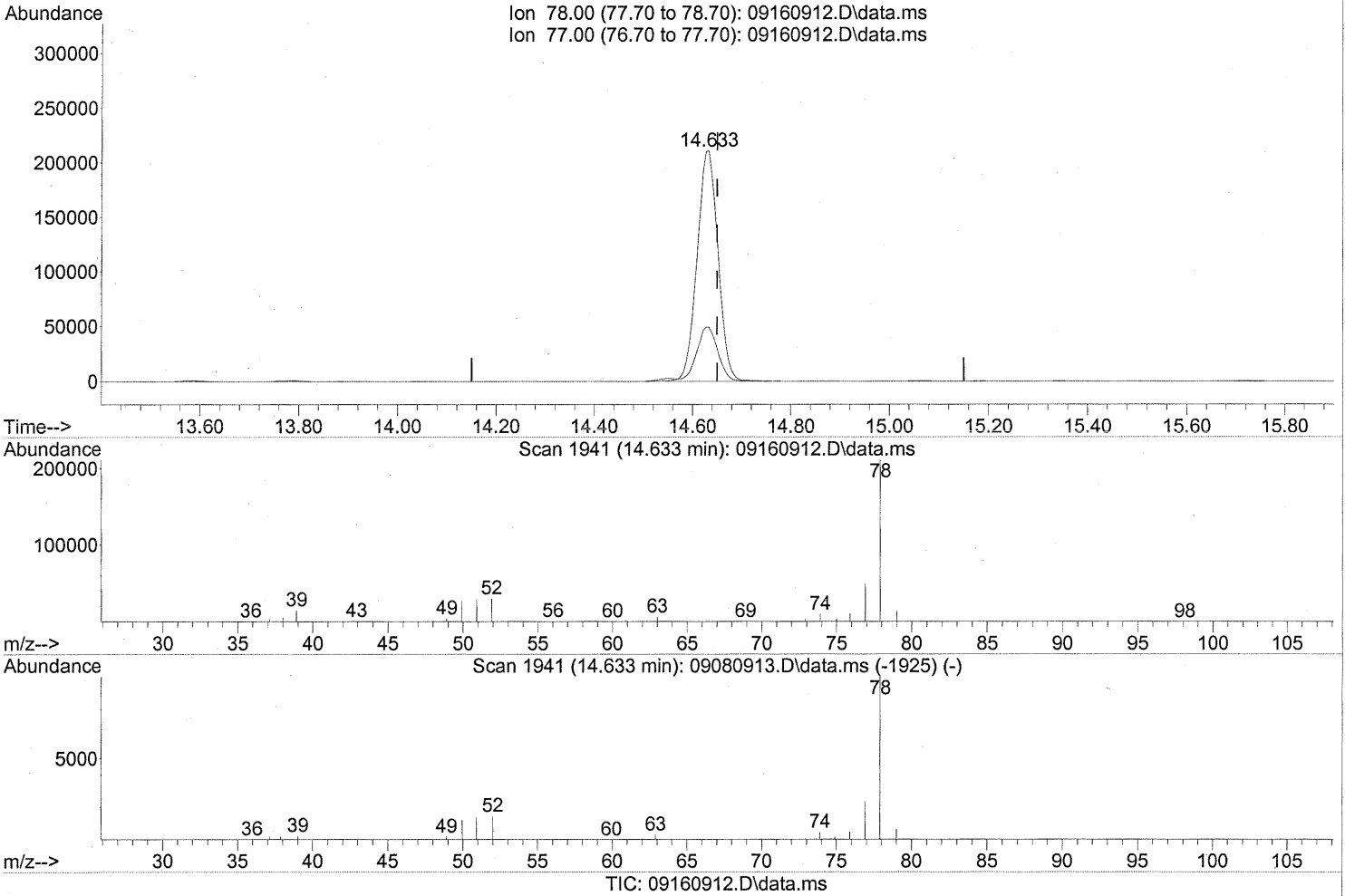
response 46507

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160912.D
Acq On : 16 Sep 2009 16:10
Operator : LH
Sample : P0903145-008 (700mL)
Misc : Environmental H & E 102717
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(41) Benzene (T)

14.633min (-0.017) 10.82ng

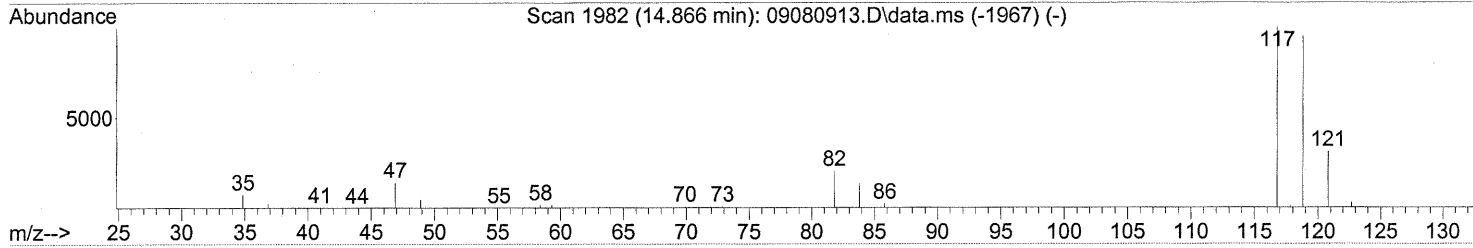
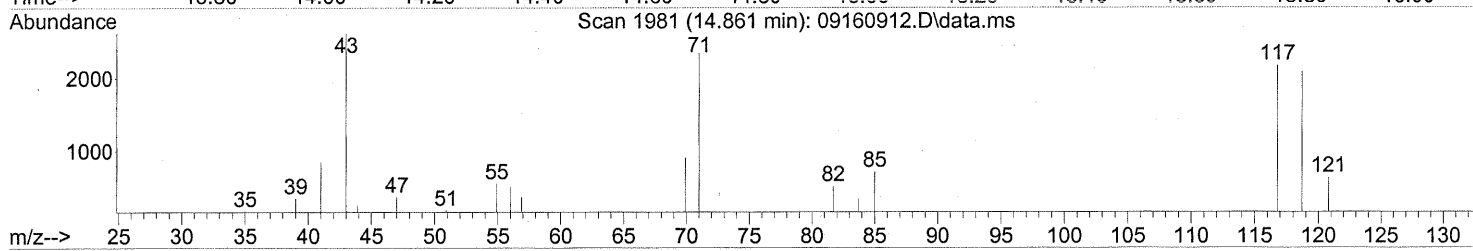
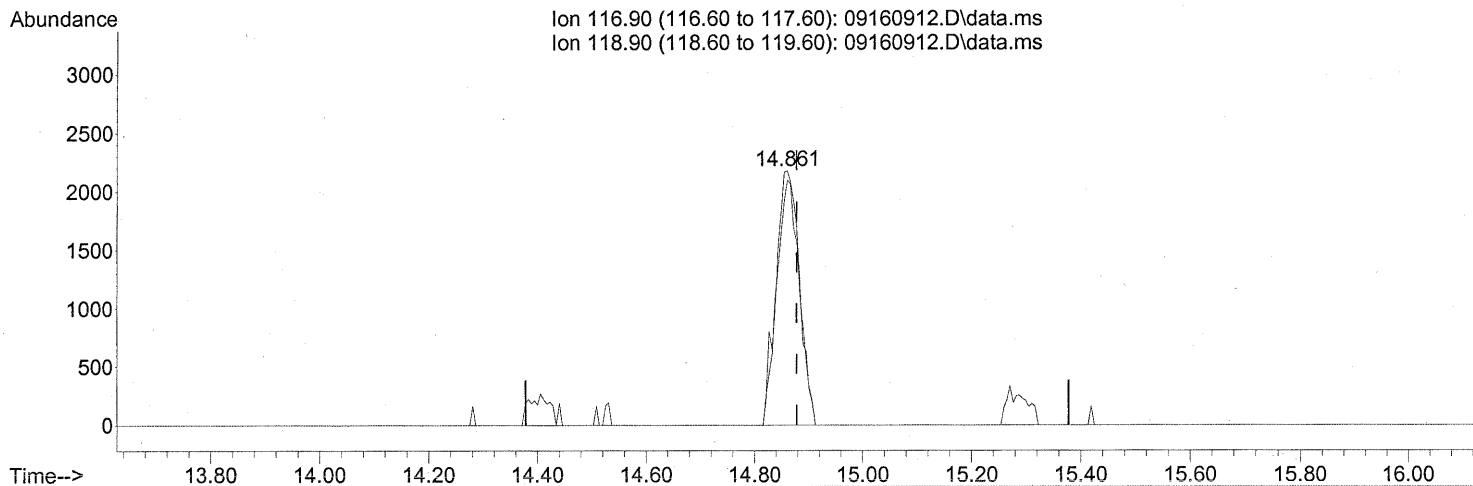
response 625629

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.38ng

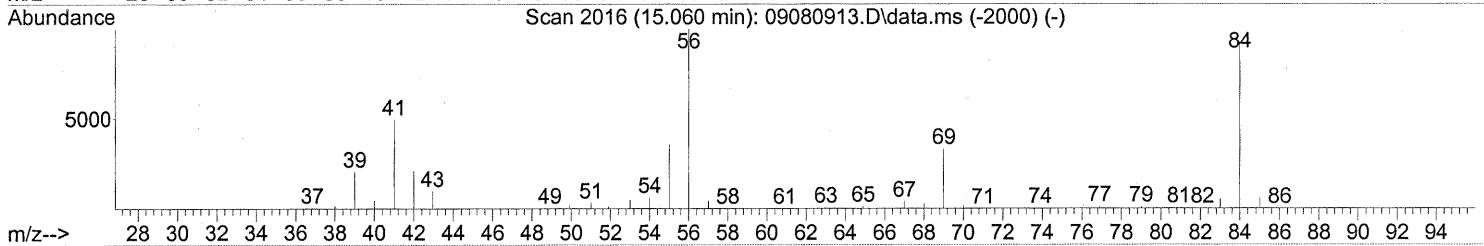
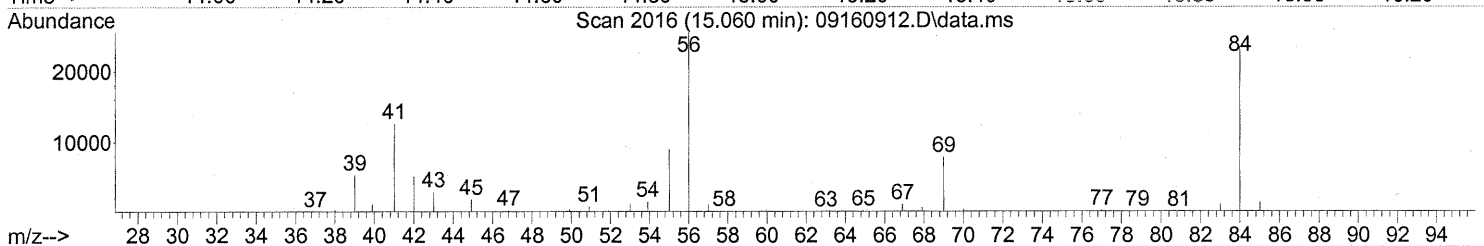
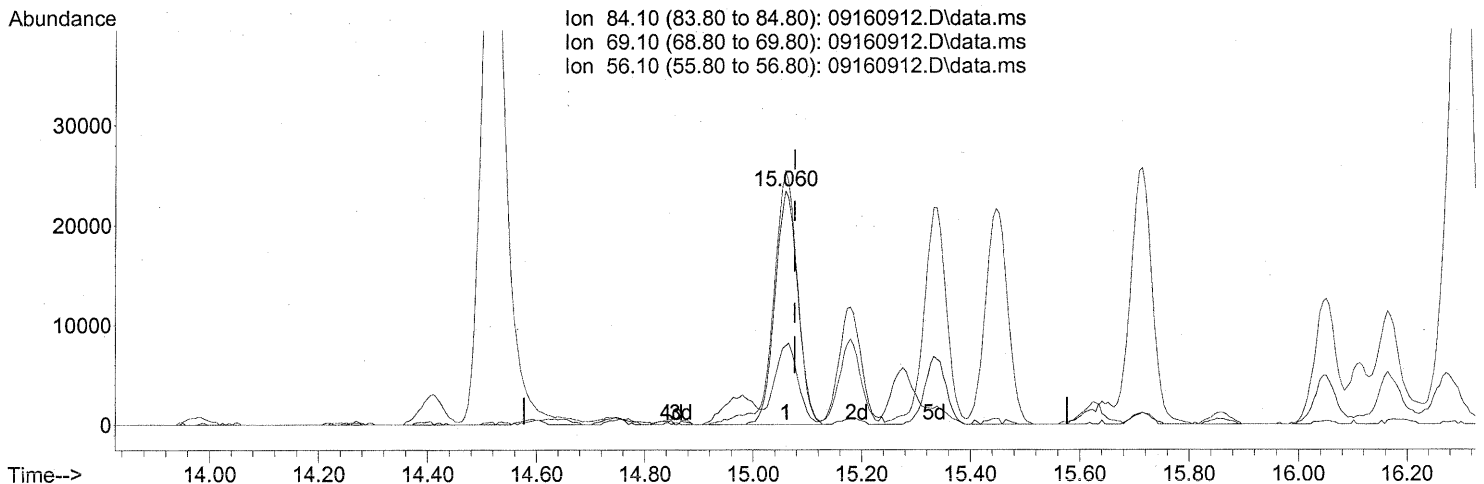
response 6547

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	92.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(43) Cyclohexane (T)

15.060min (-0.017) 3.26ng

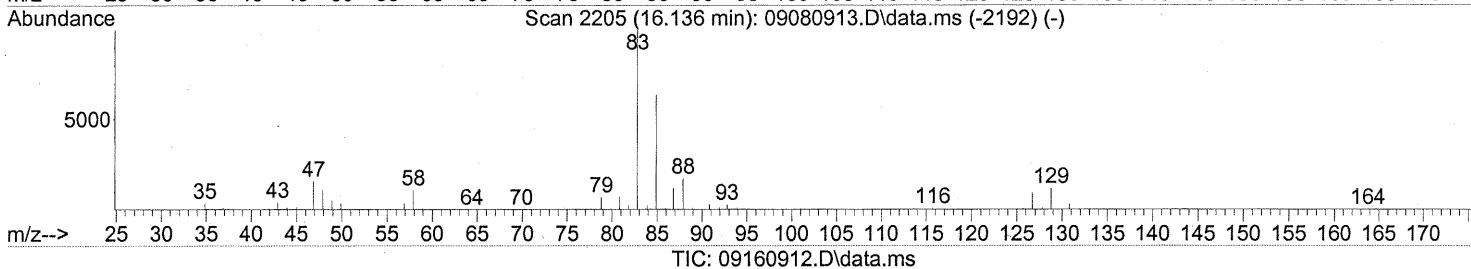
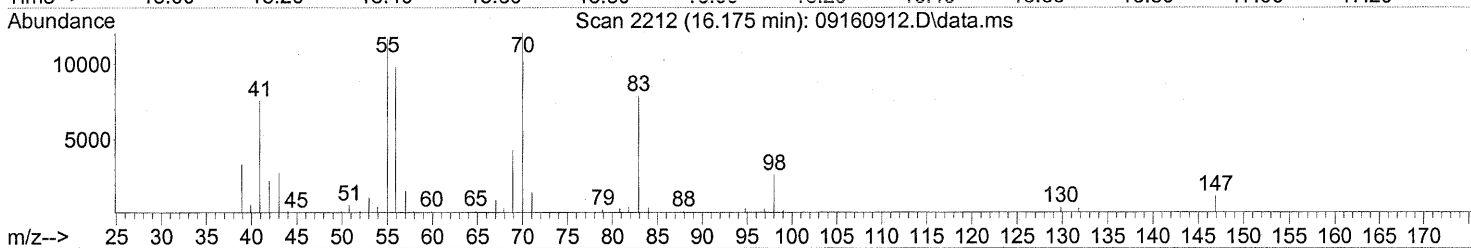
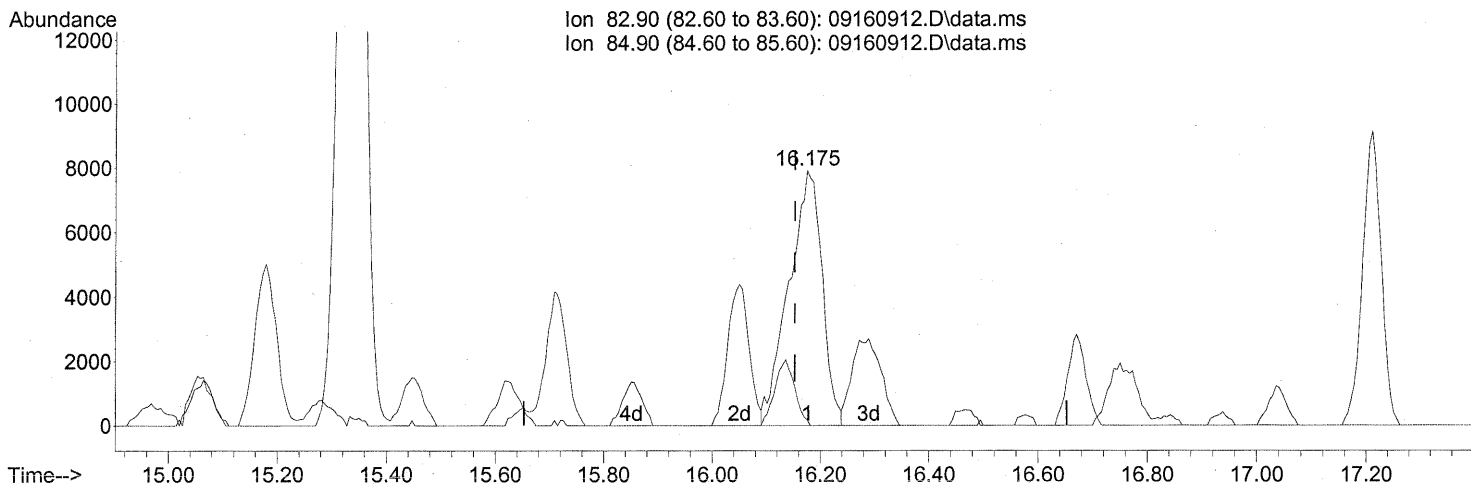
response 68679

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	34.65
56.10	124.60	114.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.175min (+0.023) 1.89ng

response 33912

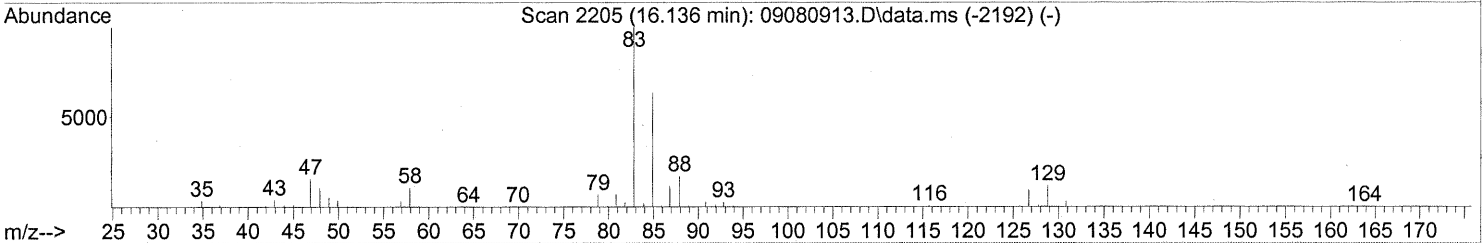
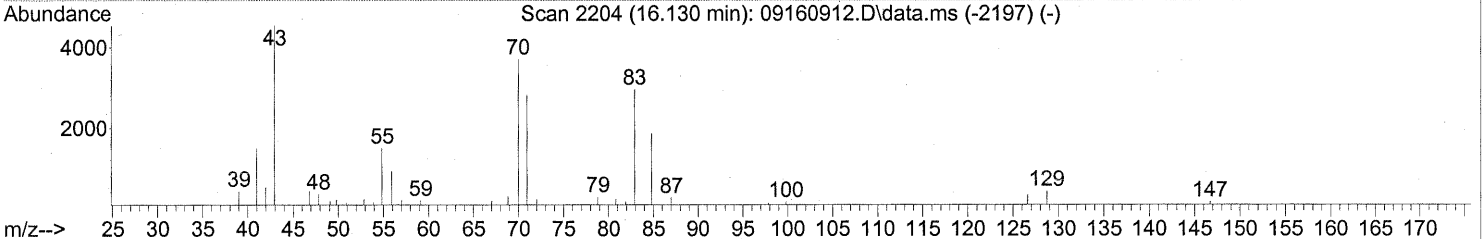
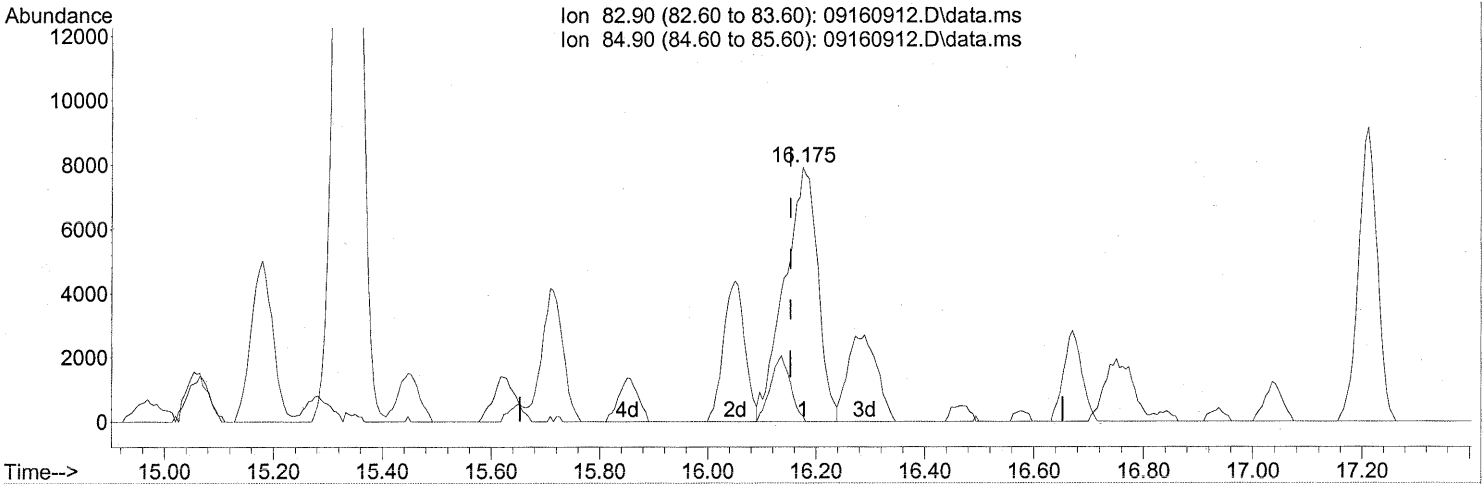
Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.175min (+0.023) 1.89ng

response 33912

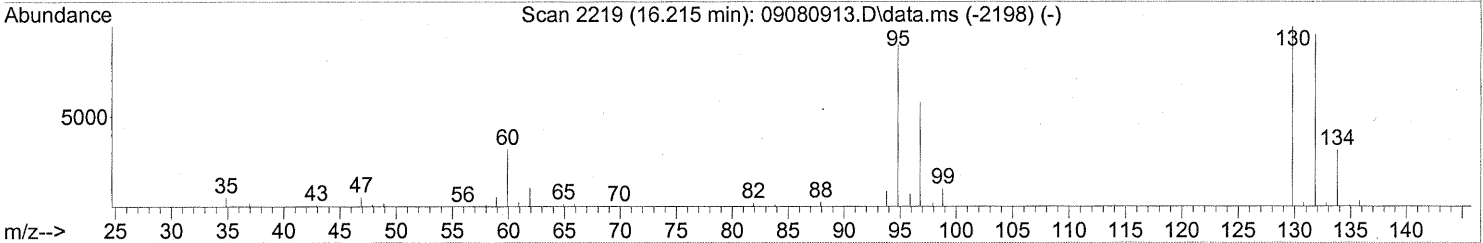
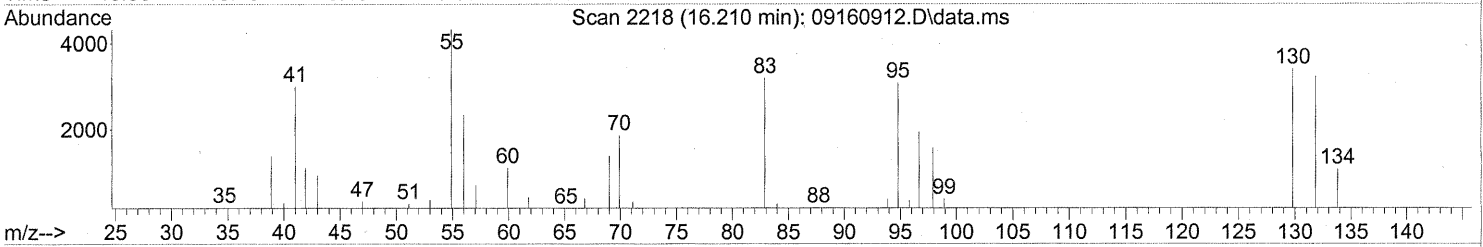
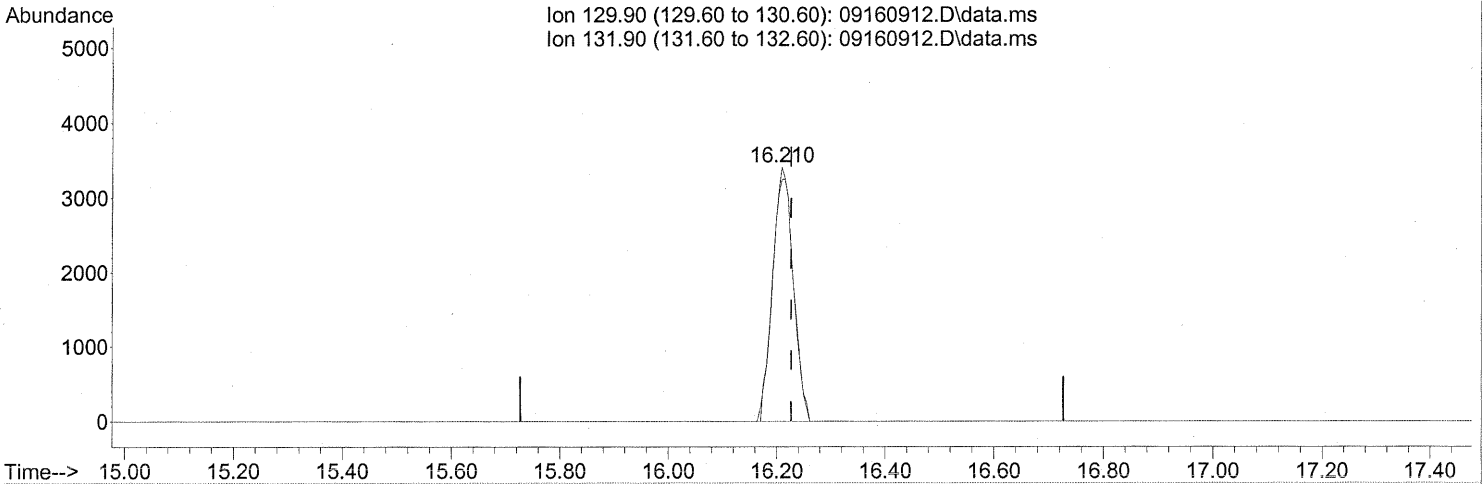
Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(47) Trichloroethene (T)

16.210min (-0.017) 0.51ng

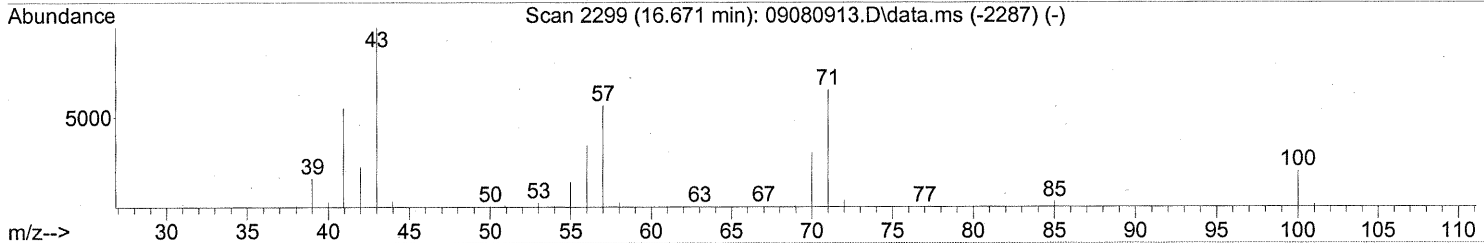
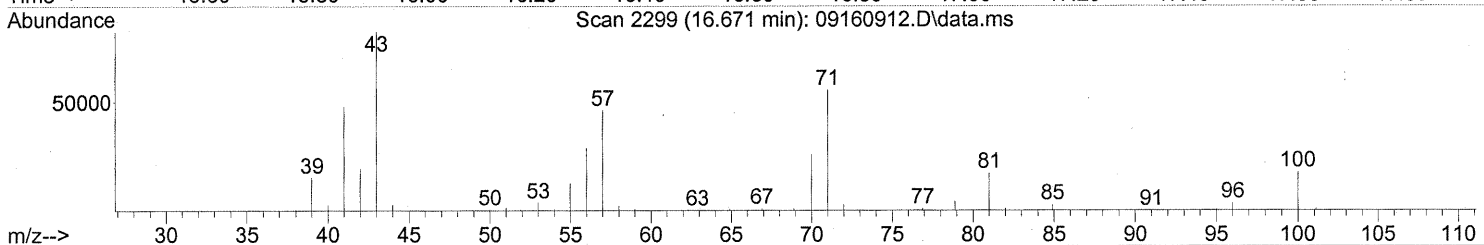
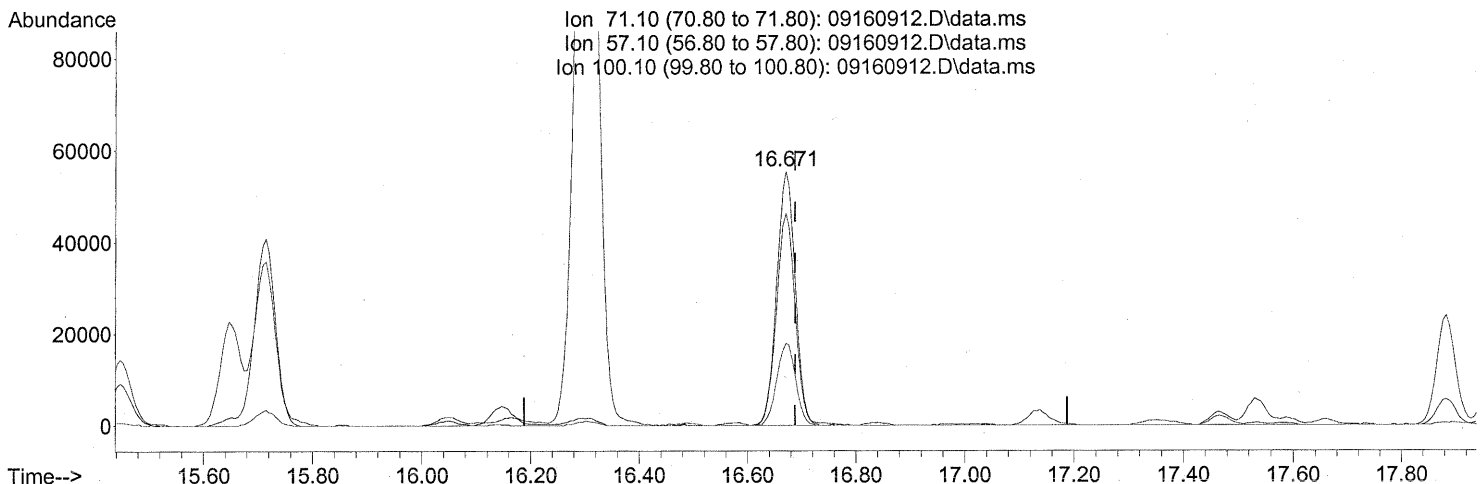
response 8926

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	99.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

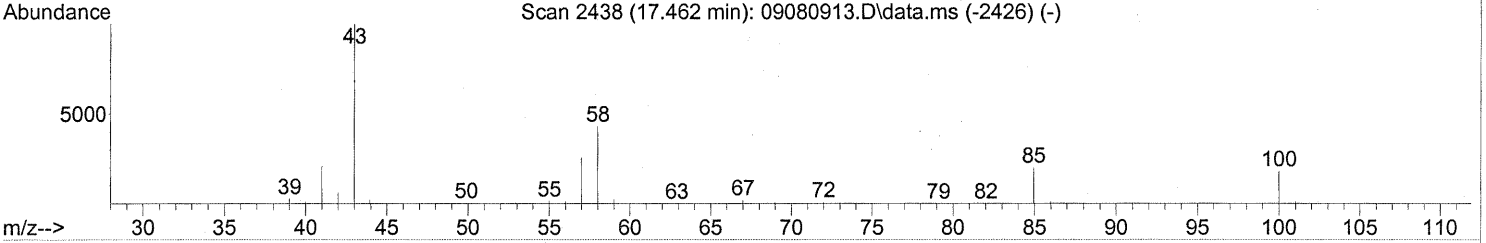
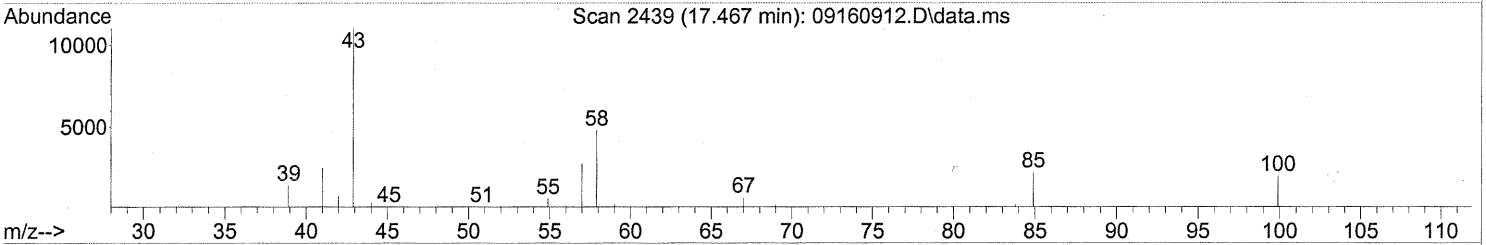
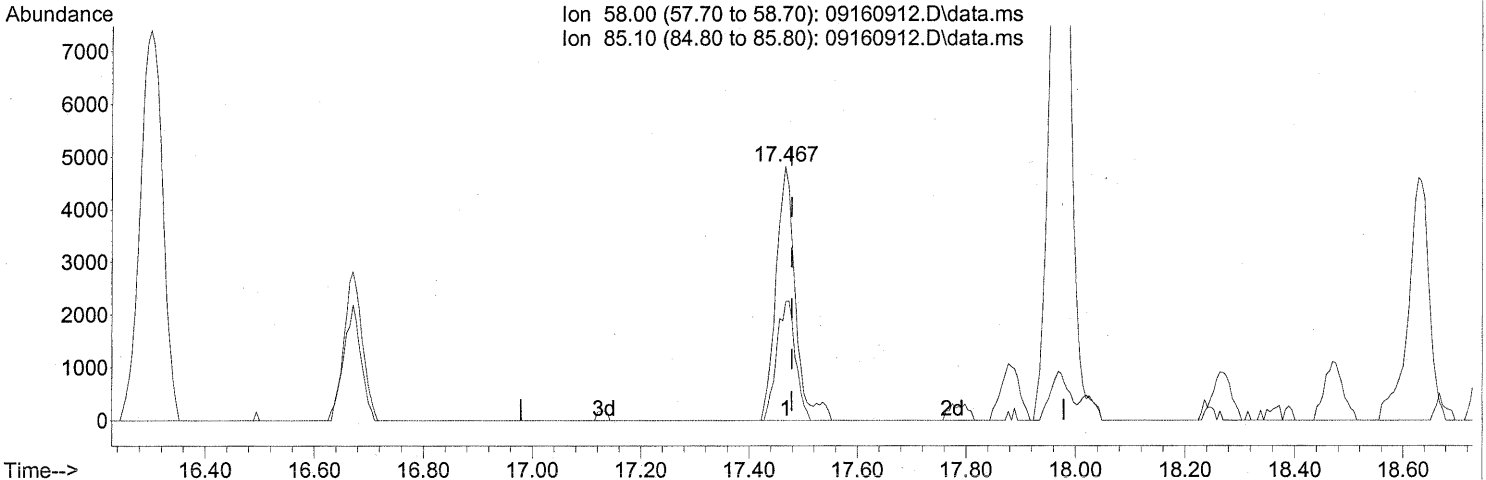
(51) n-Heptane (T)
 16.671min (-0.017) 8.95ng
 response 132002

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	84.95
100.10	26.80	32.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.467min (-0.011) 0.93ng

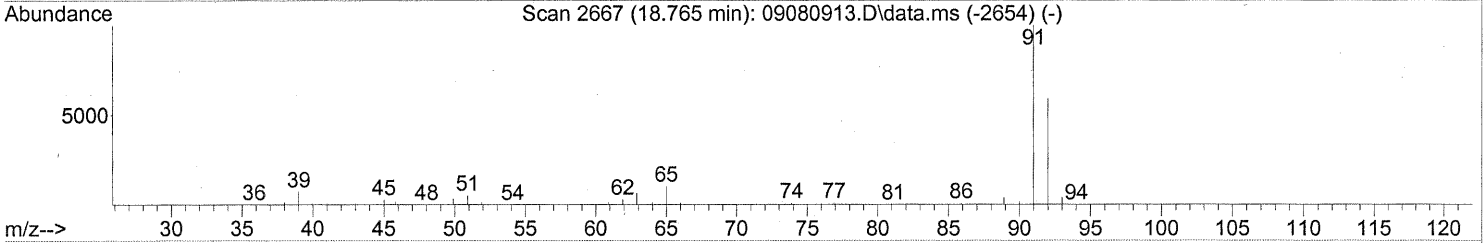
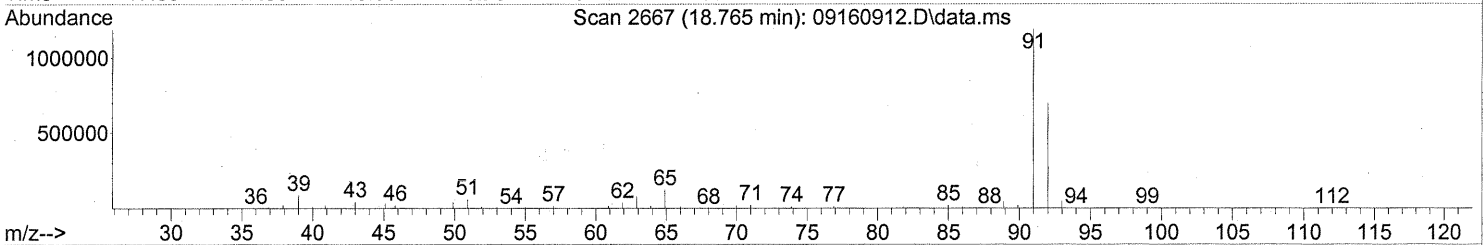
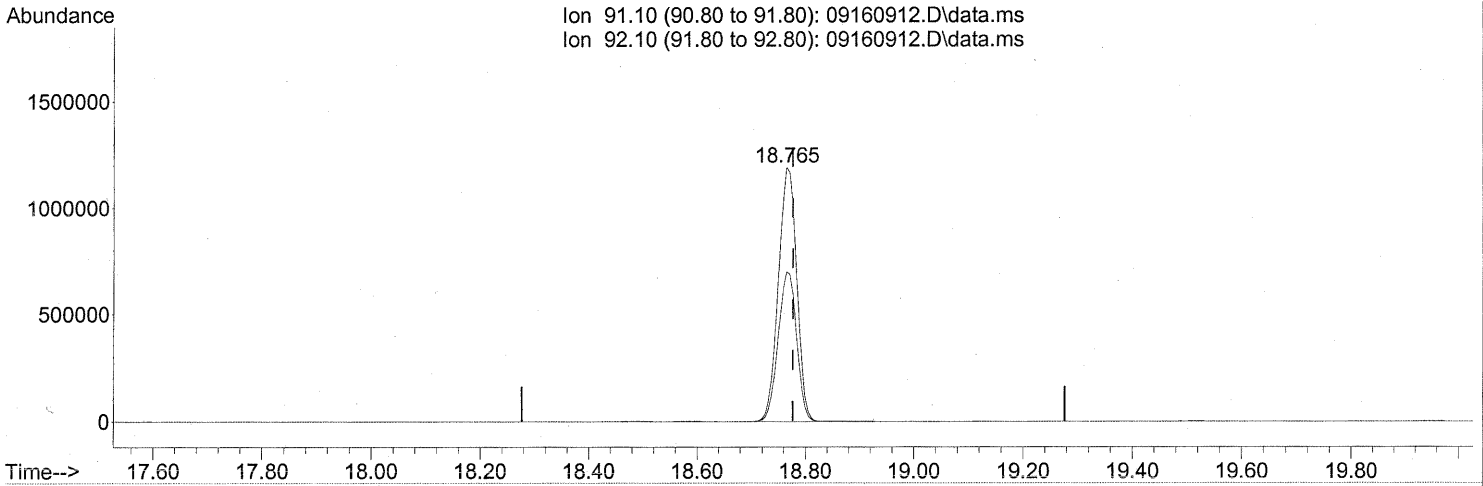
response 12009

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	45.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160912.D
Acq On : 16 Sep 2009 16:10
Operator : LH
Sample : P0903145-008 (700mL)
Misc : Environmental H & E 102717
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160912.D\data.ms

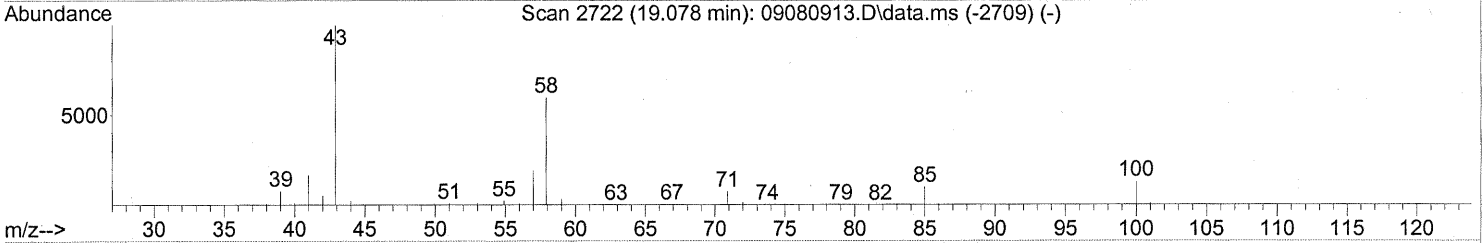
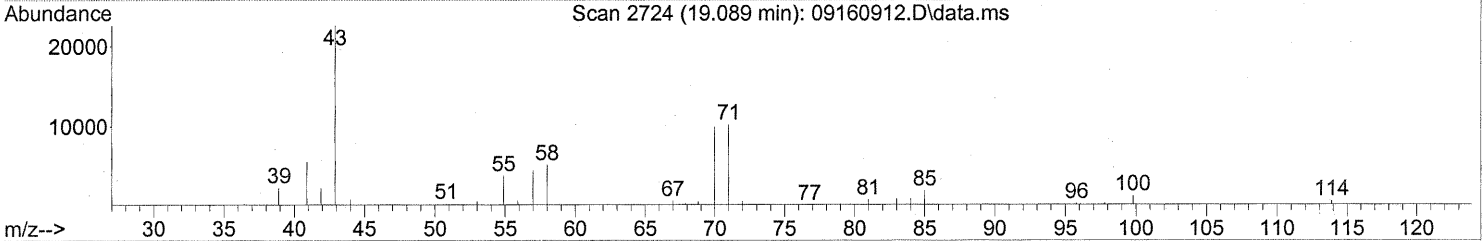
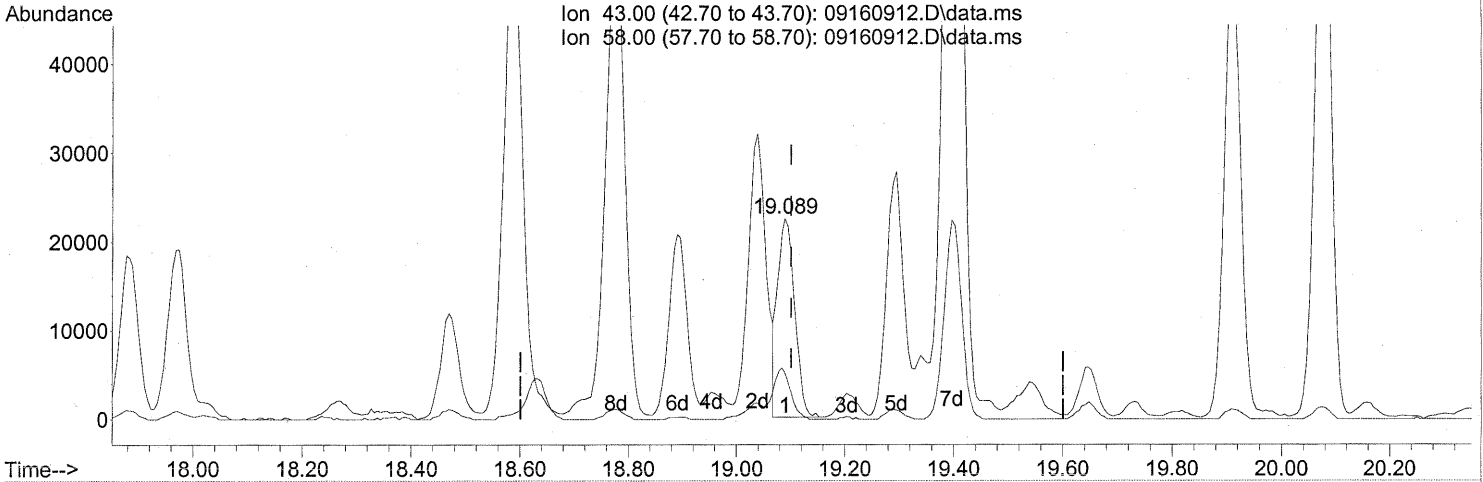
(58) Toluene (T)
18.765min (-0.011) 43.30ng
response 2797058

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.089min (-0.011) 1.58ng
 response 49093

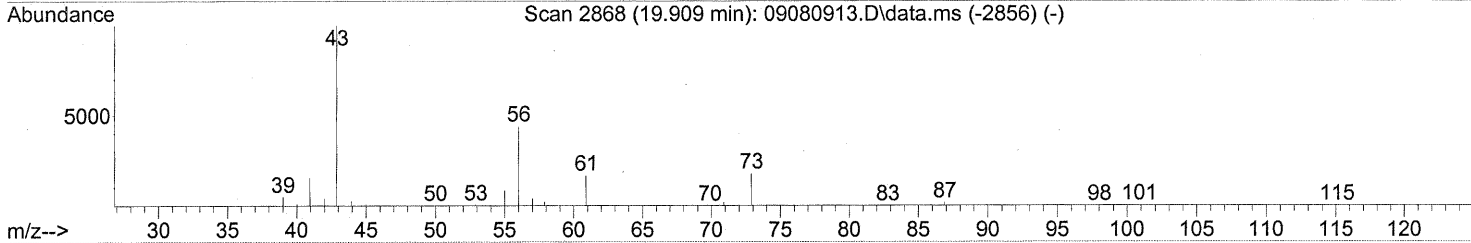
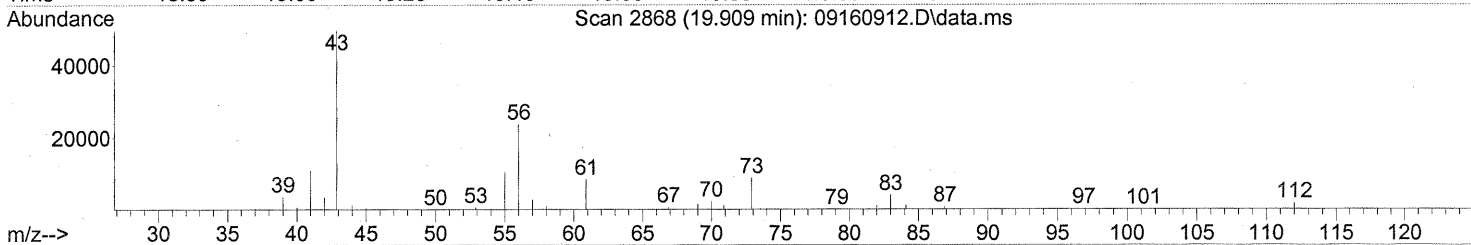
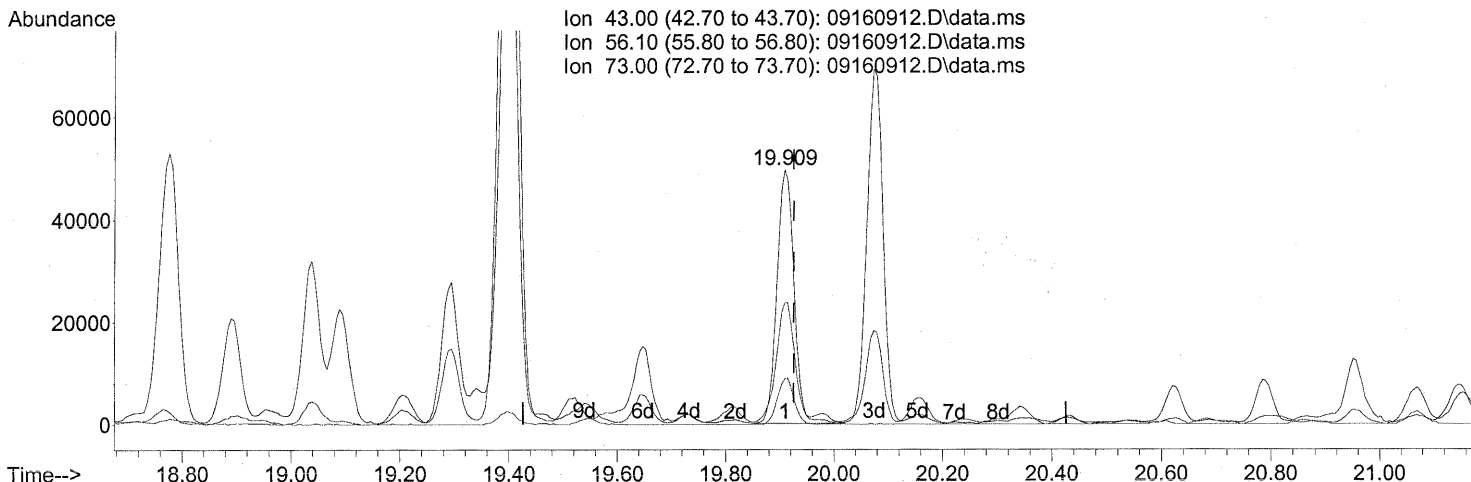
Ion	Exp%	Act%
43.00	100	100
58.00	55.60	26.84#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 LH 9/22/09
 LH 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



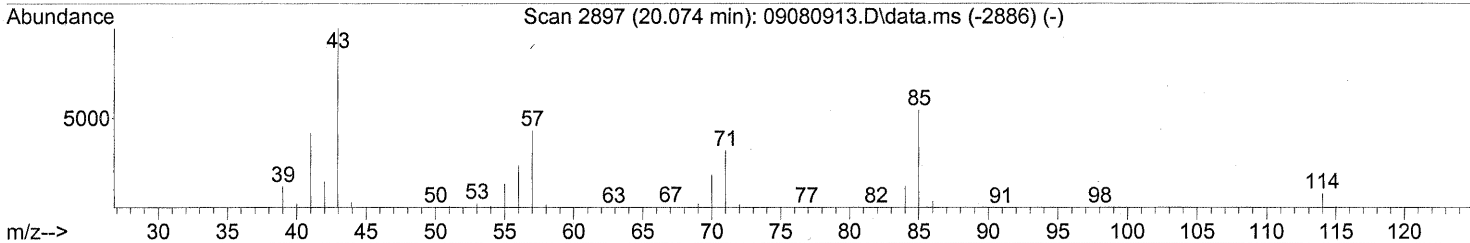
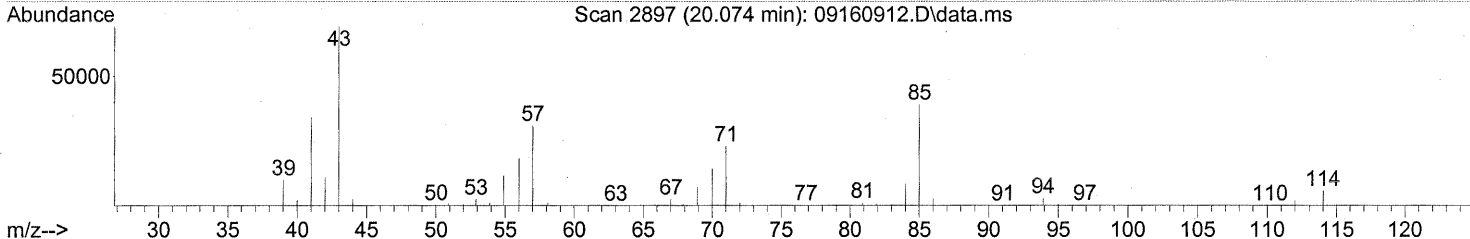
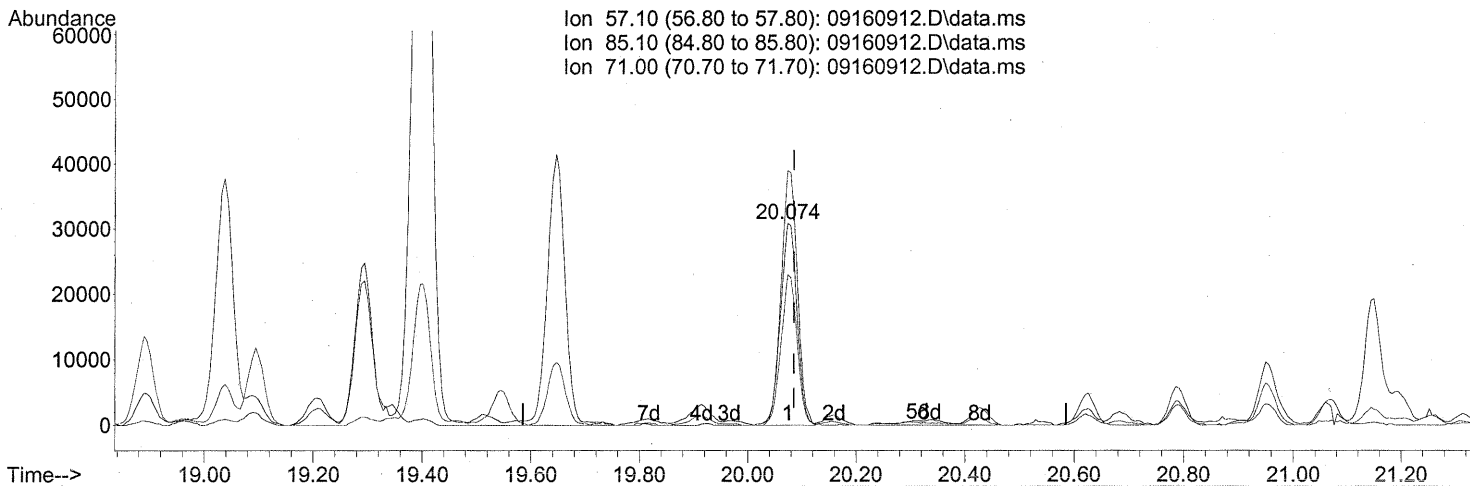
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 3.04ng
 response 108534

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	51.84
73.00	15.40	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

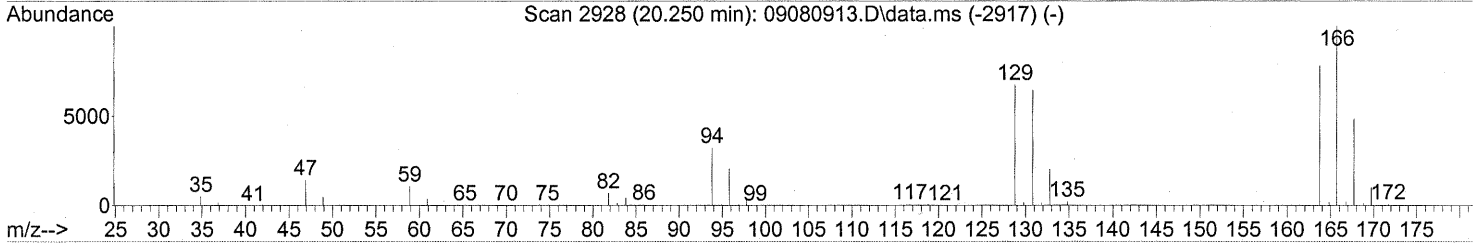
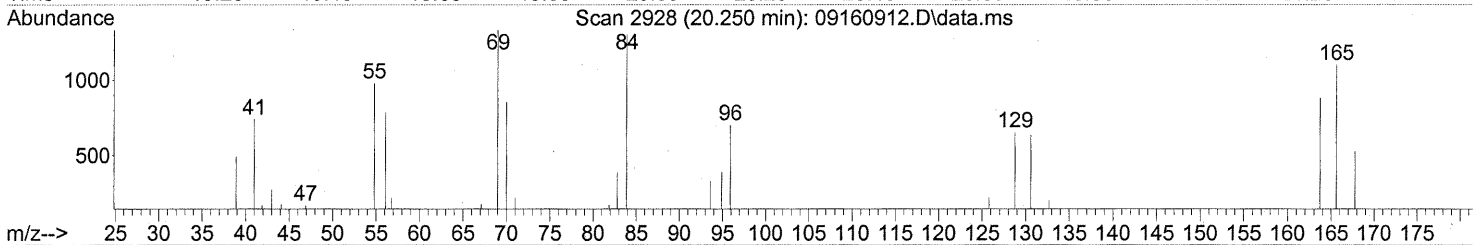
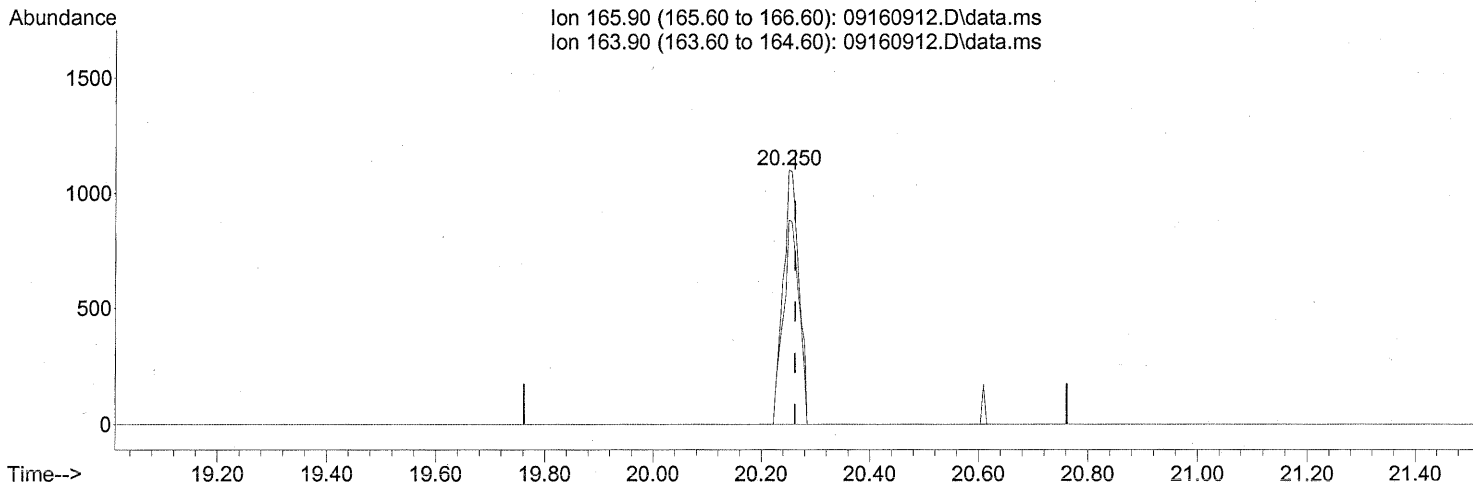
(63) n-Octane (T)
 20.074min (-0.011) 5.39ng
 response 65309

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	124.73
71.00	69.40	72.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.250min (-0.011) 0.11ng

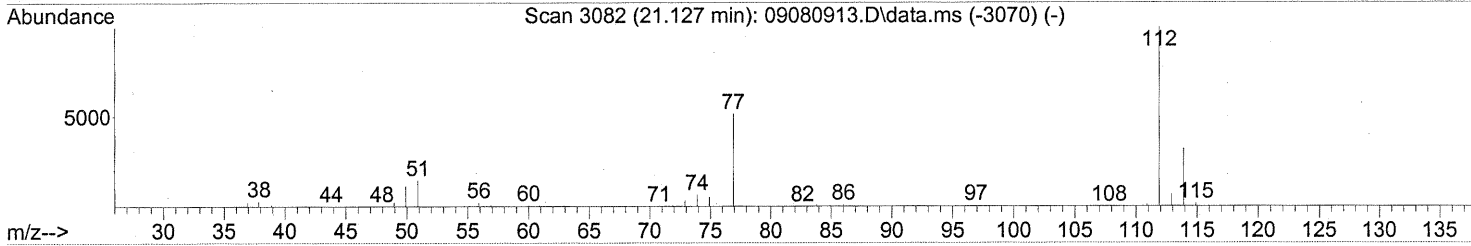
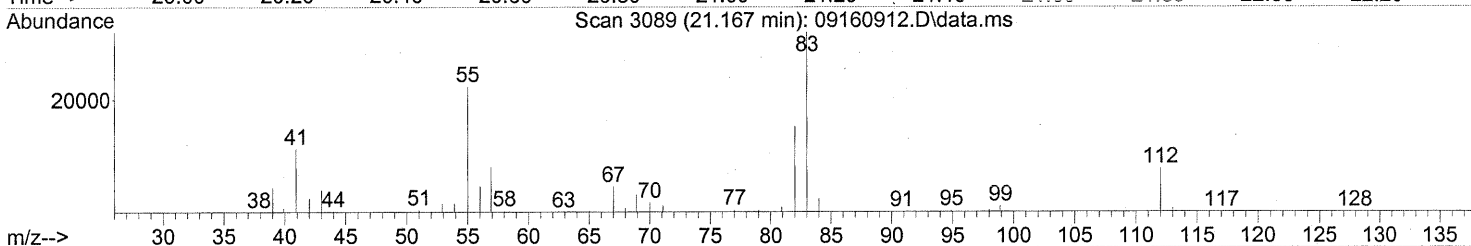
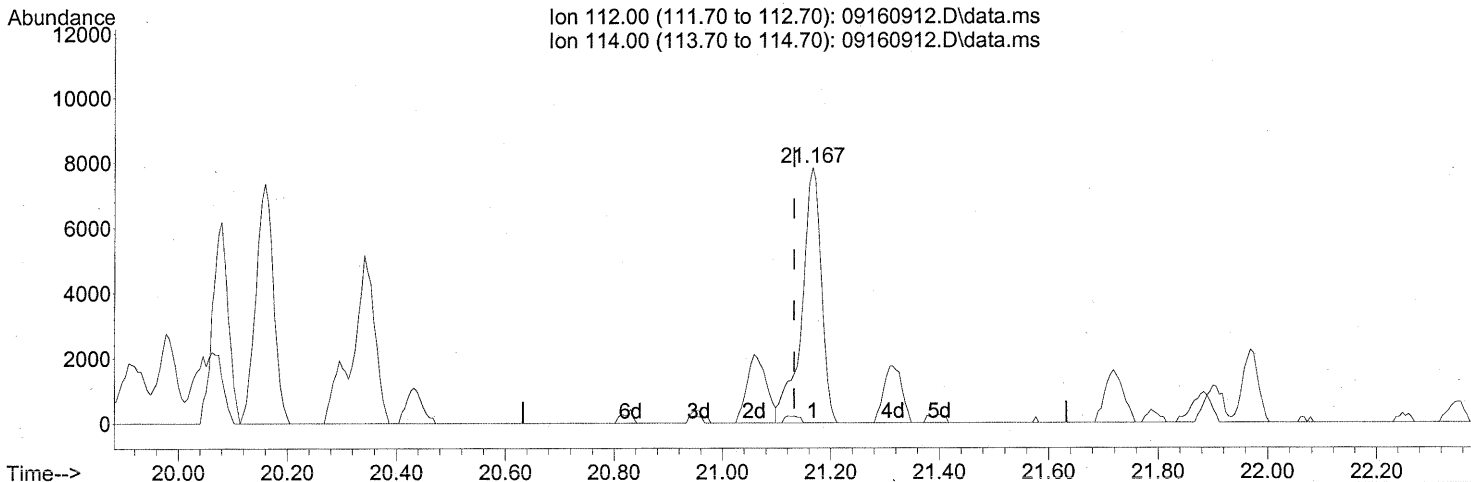
response 2228

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	80.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(65) Chlorobenzene (T)
 21.167min (+0.034) 0.46ng
 response 19796

FP UR 9/18/09

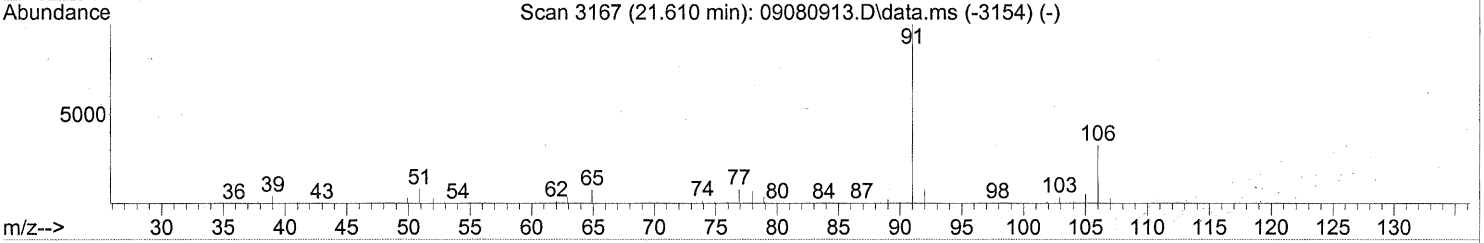
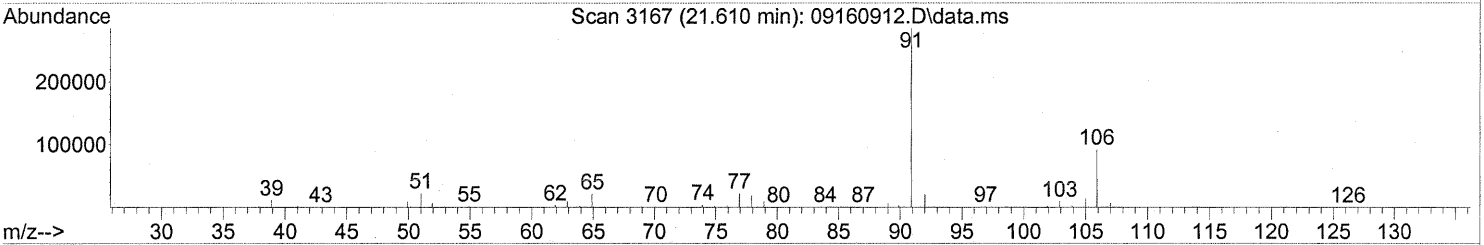
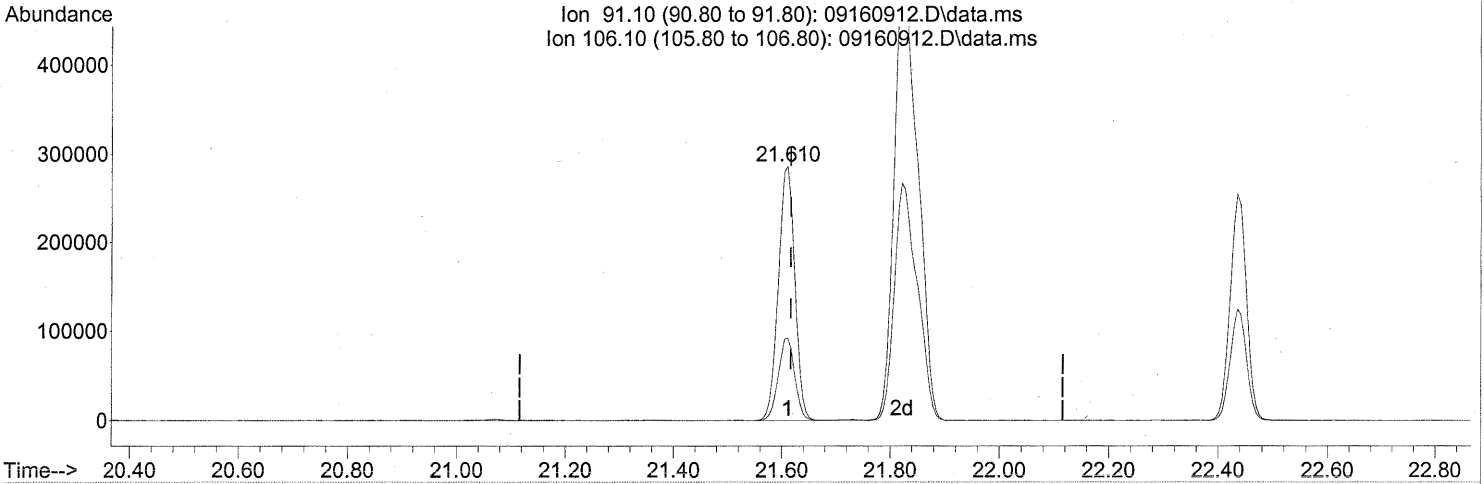
Ion	Exp%	Act%
112.00	100	100
114.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

9/19/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

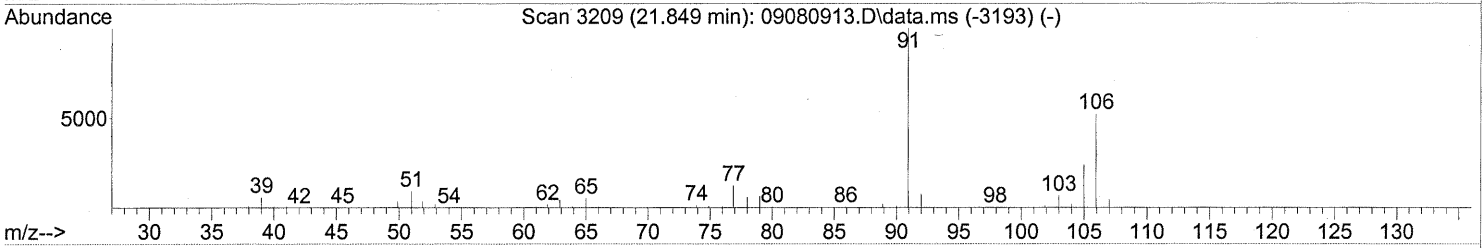
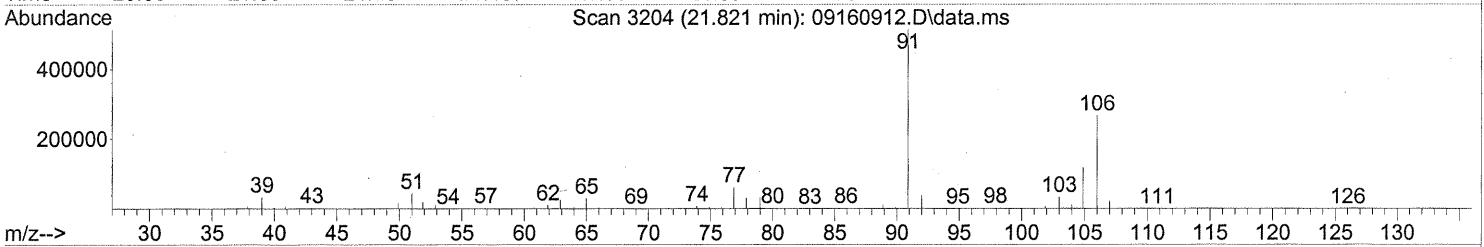
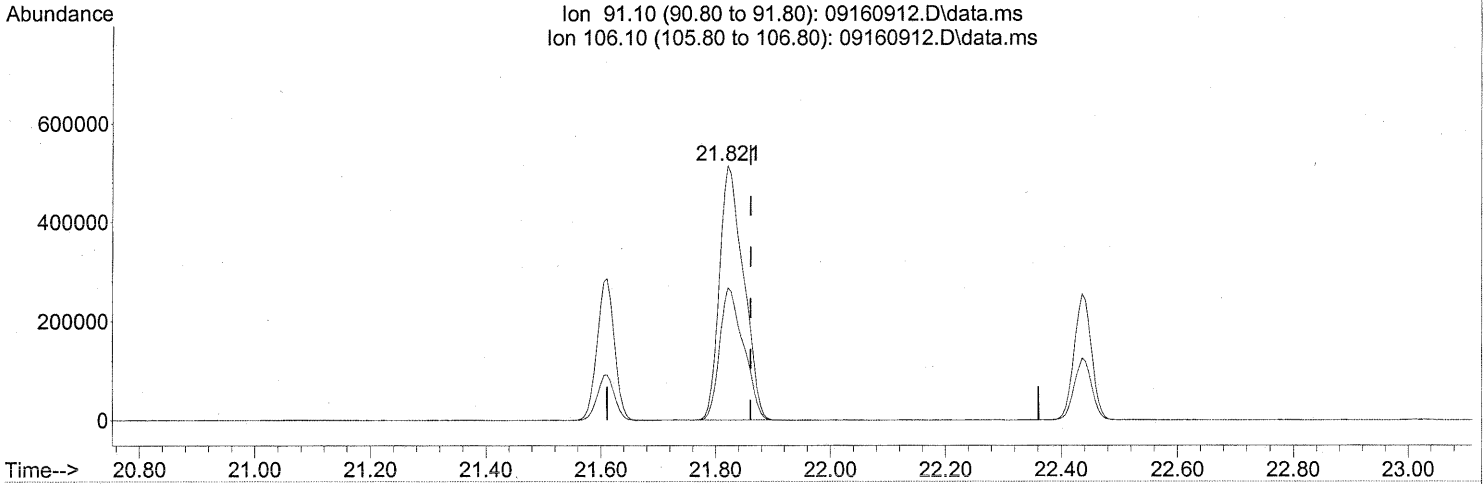
(66) Ethylbenzene (T)
 21.610min (-0.006) 8.49ng
 response 602463

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(67) m- & p-Xylenes (T)

21.821min (-0.040) 27.09ng

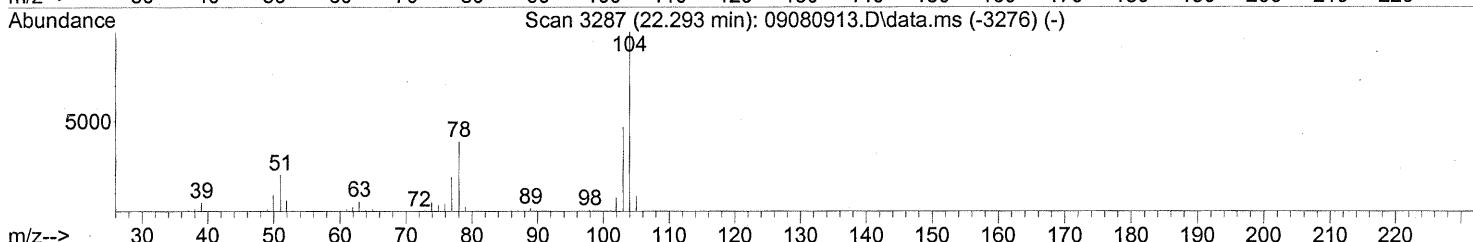
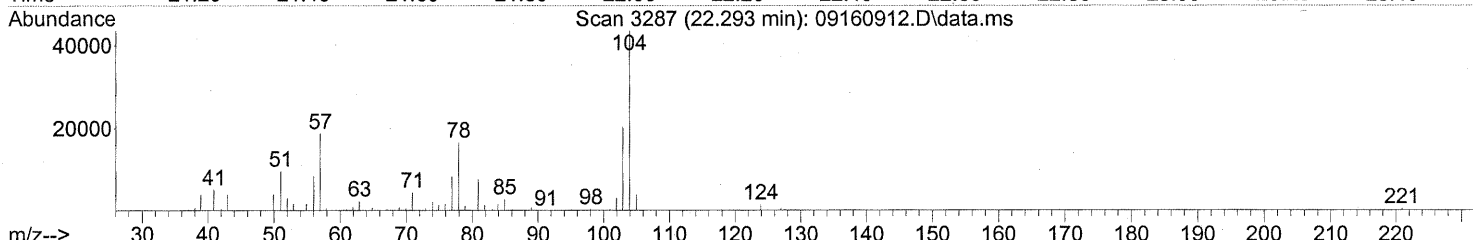
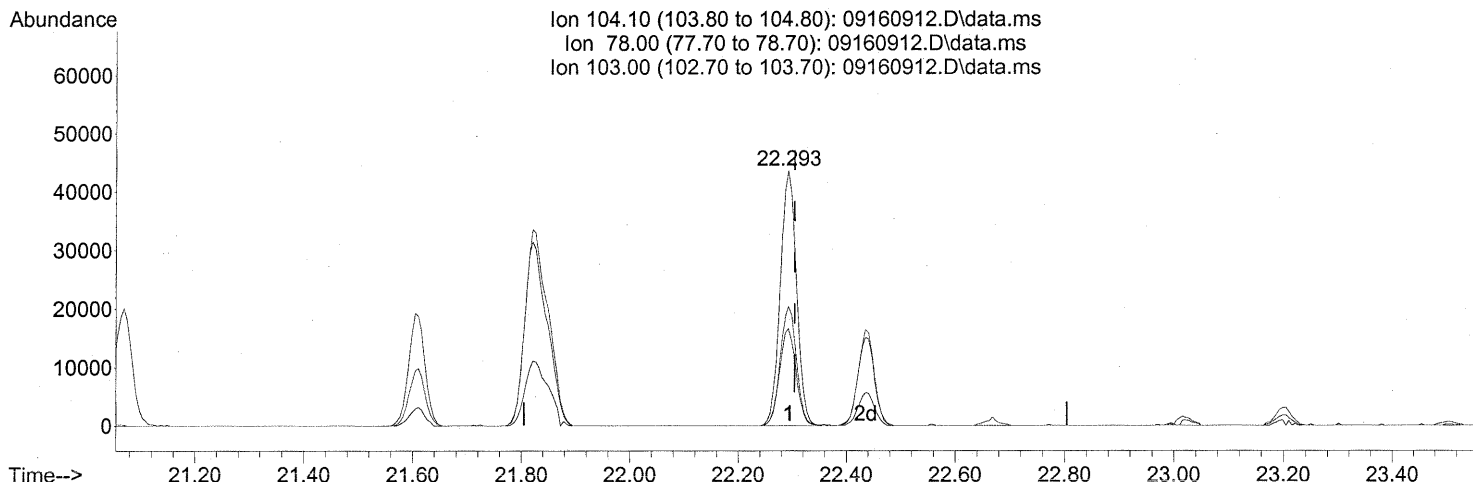
response 1502298

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 2.01ng

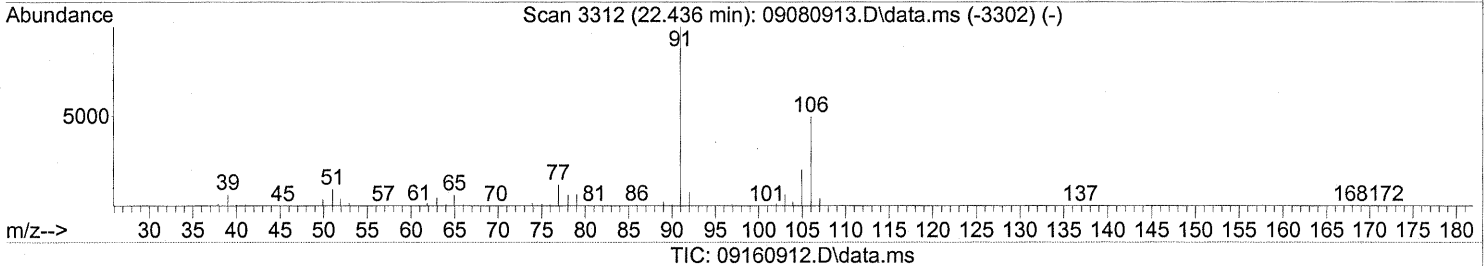
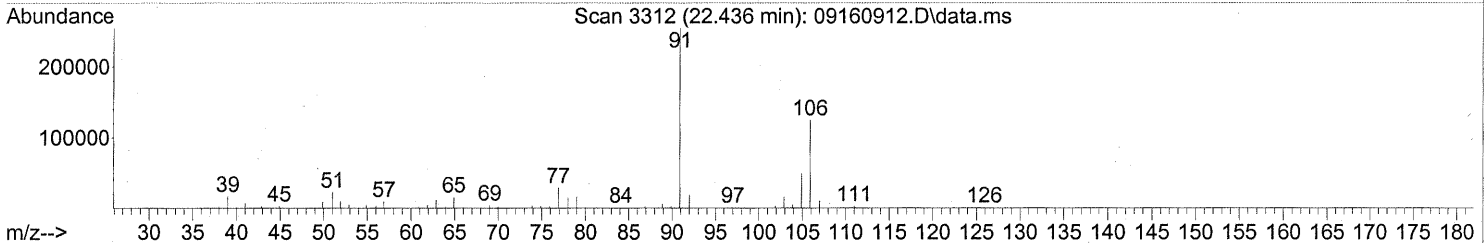
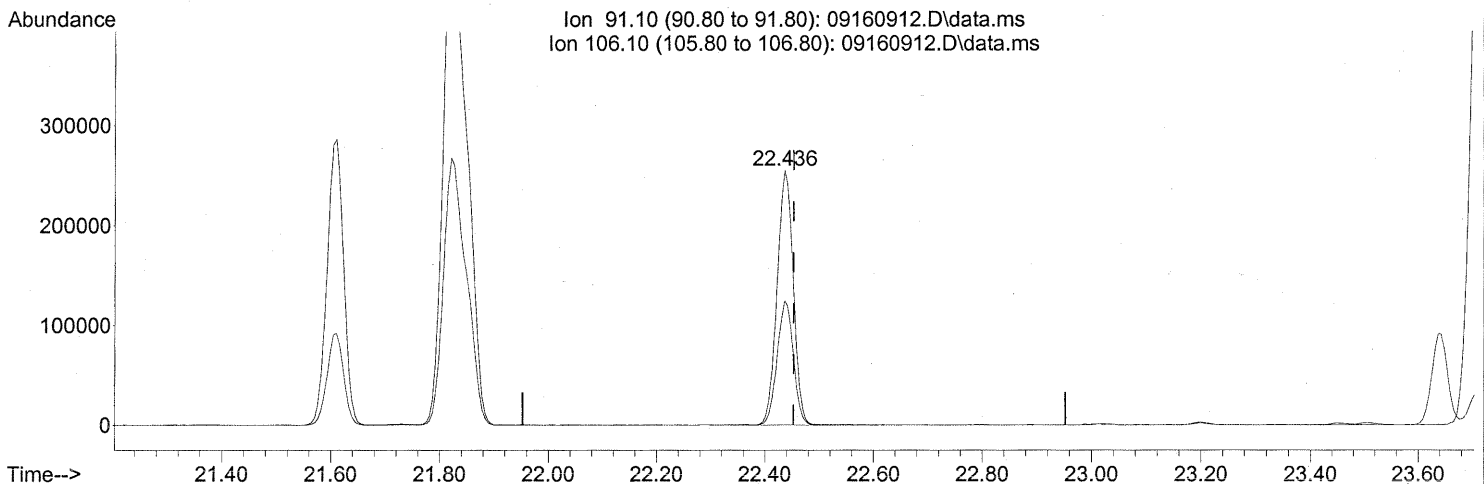
response 91403

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.68
103.00	47.80	46.97
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



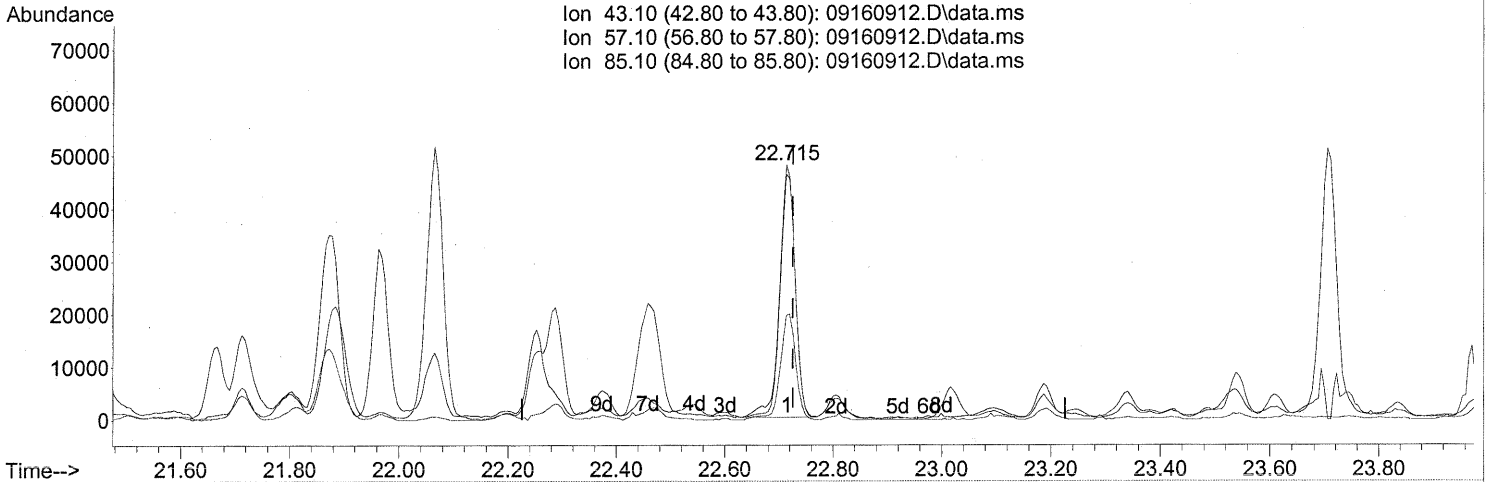
(70) o-Xylene (T)
 22.436min (-0.017) 9.37ng
 response 530916

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.85
0.00	0.00	0.00
0.00	0.00	0.00

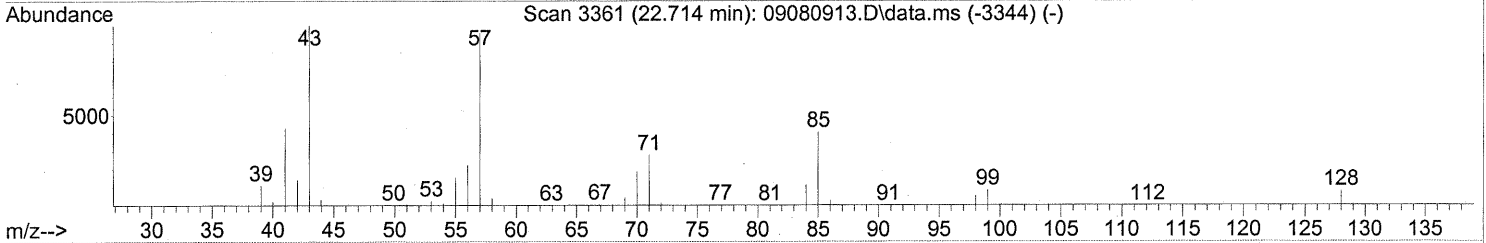
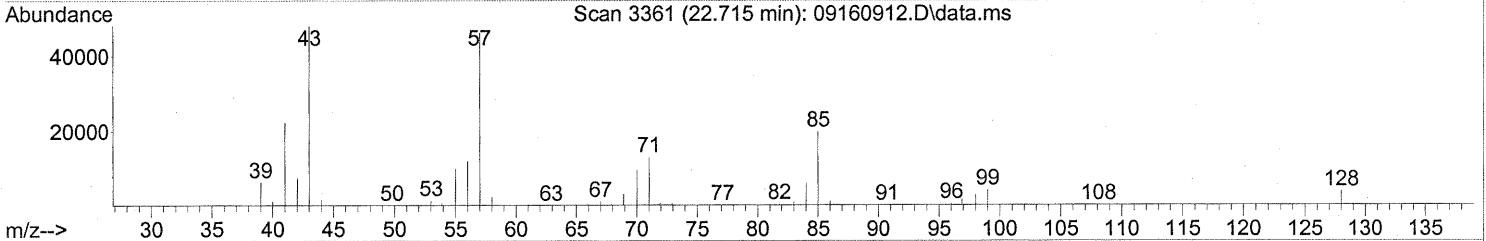
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Ion 43.10 (42.80 to 43.80): 09160912.D\data.ms
 Ion 57.10 (56.80 to 57.80): 09160912.D\data.ms
 Ion 85.10 (84.80 to 85.80): 09160912.D\data.ms



TIC: 09160912.D\data.ms

(71) n-Nonane (T)

22.715min (-0.011) 3.44ng

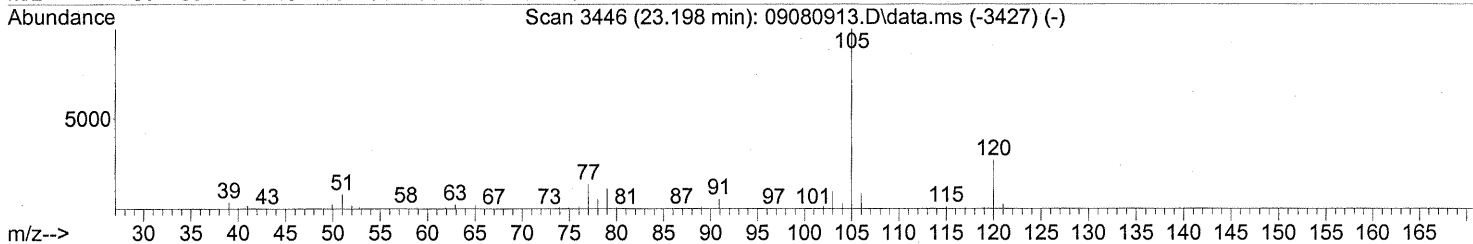
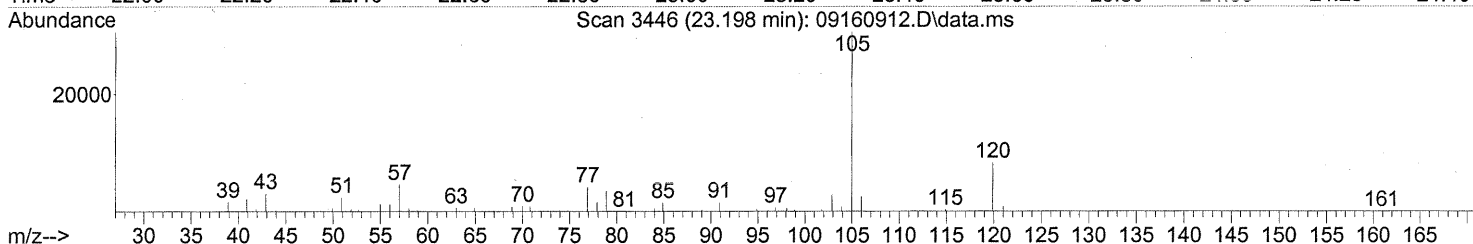
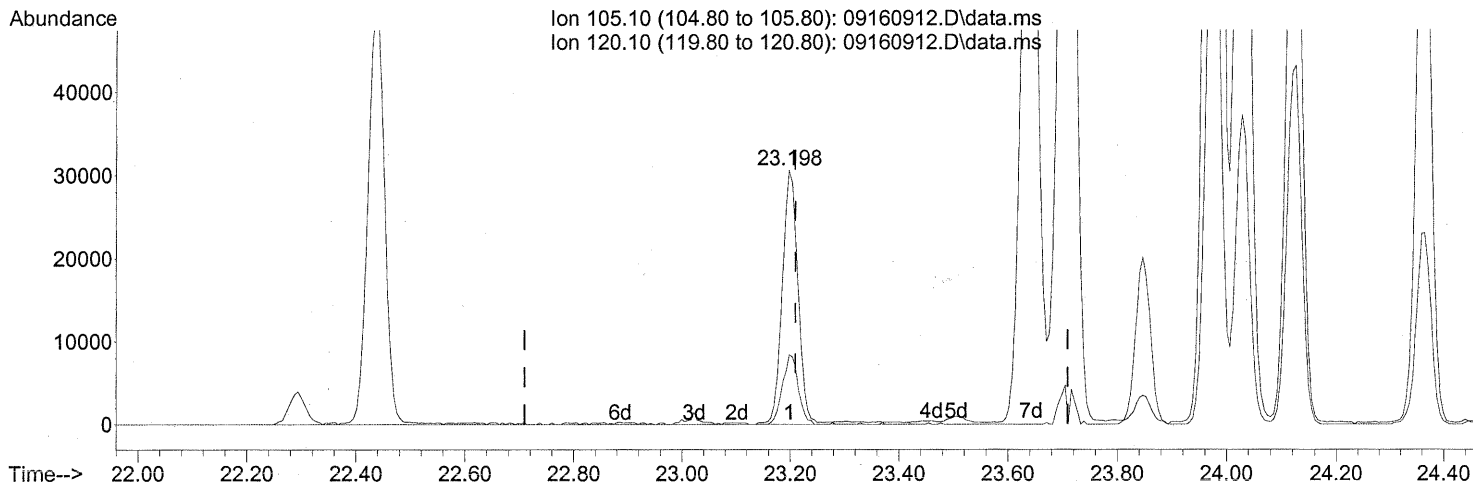
response 94701

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	94.16
85.10	33.10	42.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

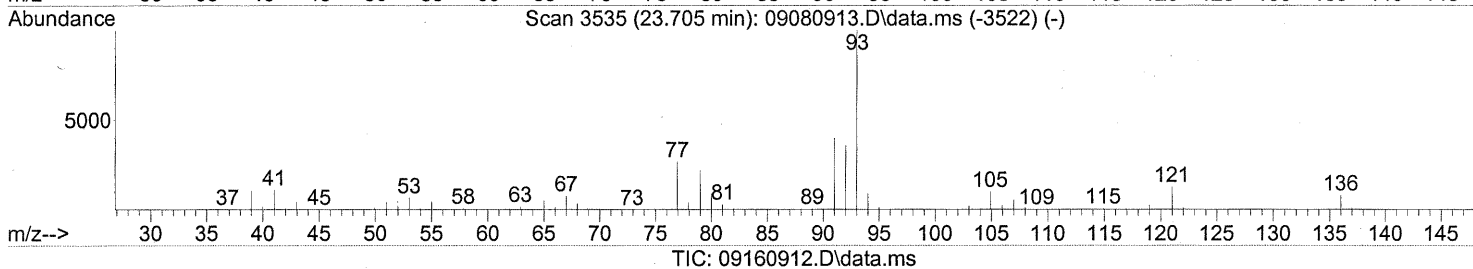
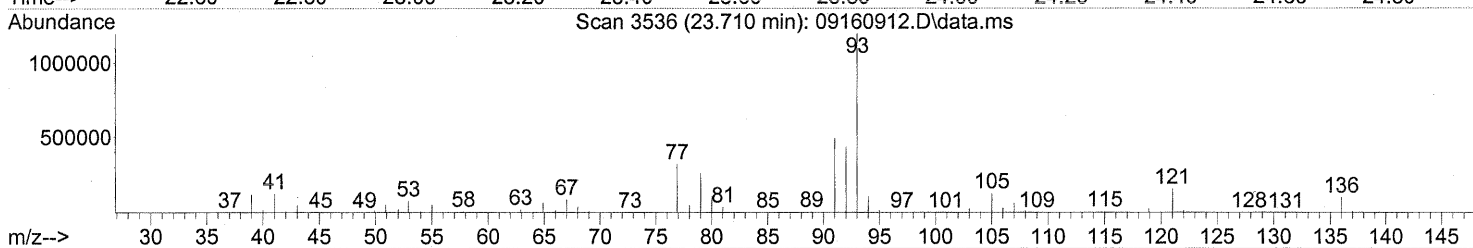
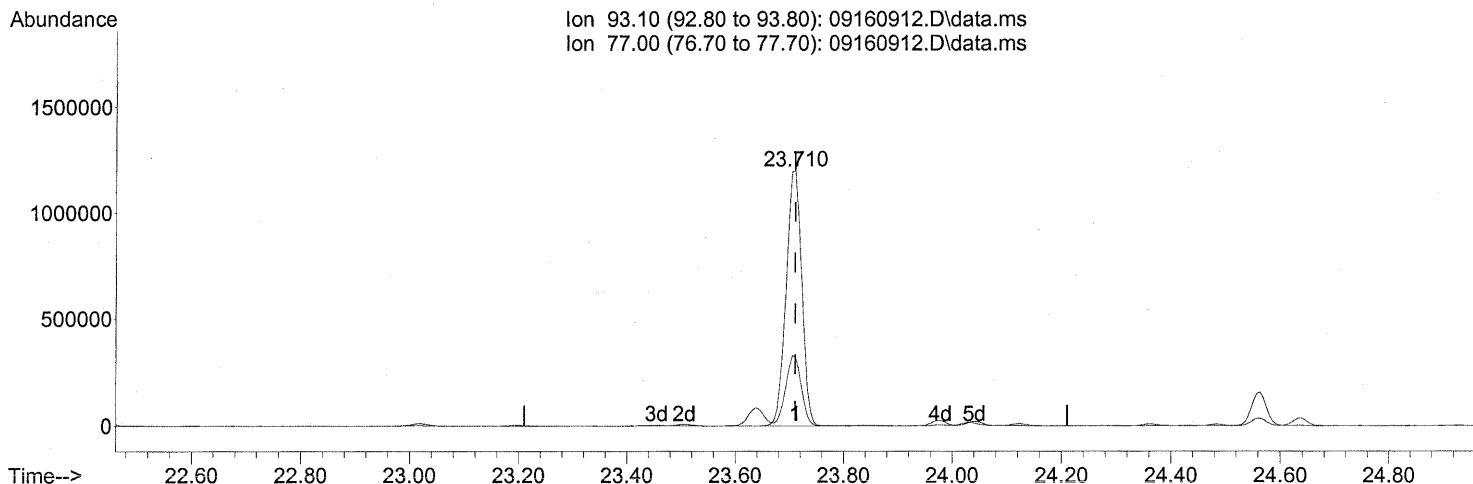
(74) Cumene (T)
 23.198min (-0.011) 0.83ng
 response 64158

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	26.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)

23.710min (+0.000) 66.04ng

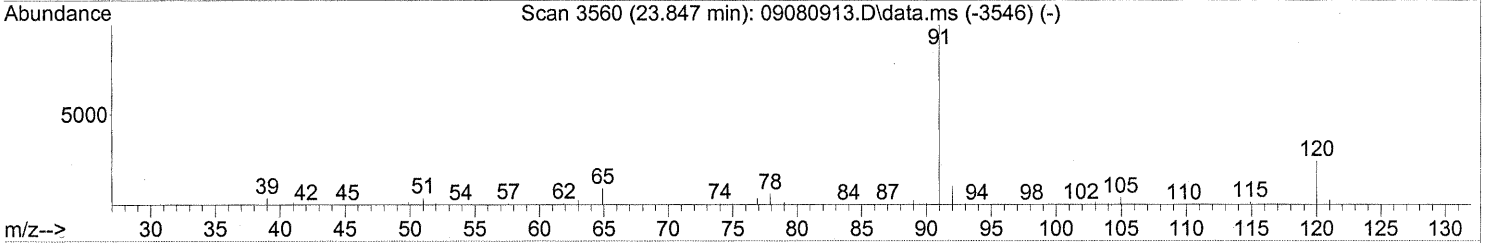
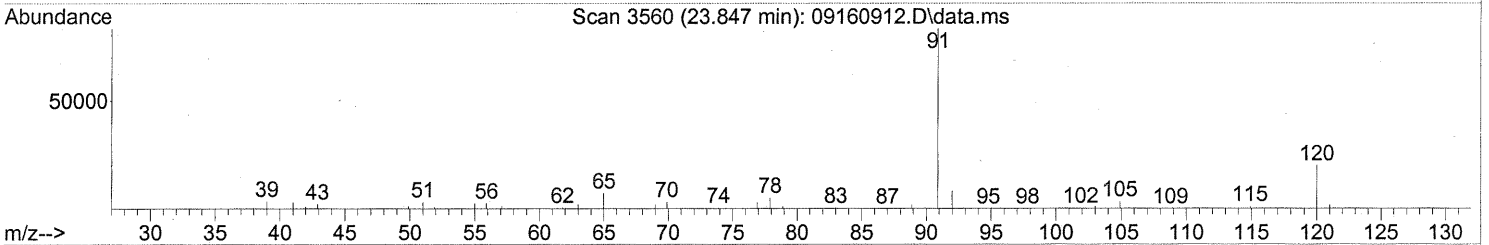
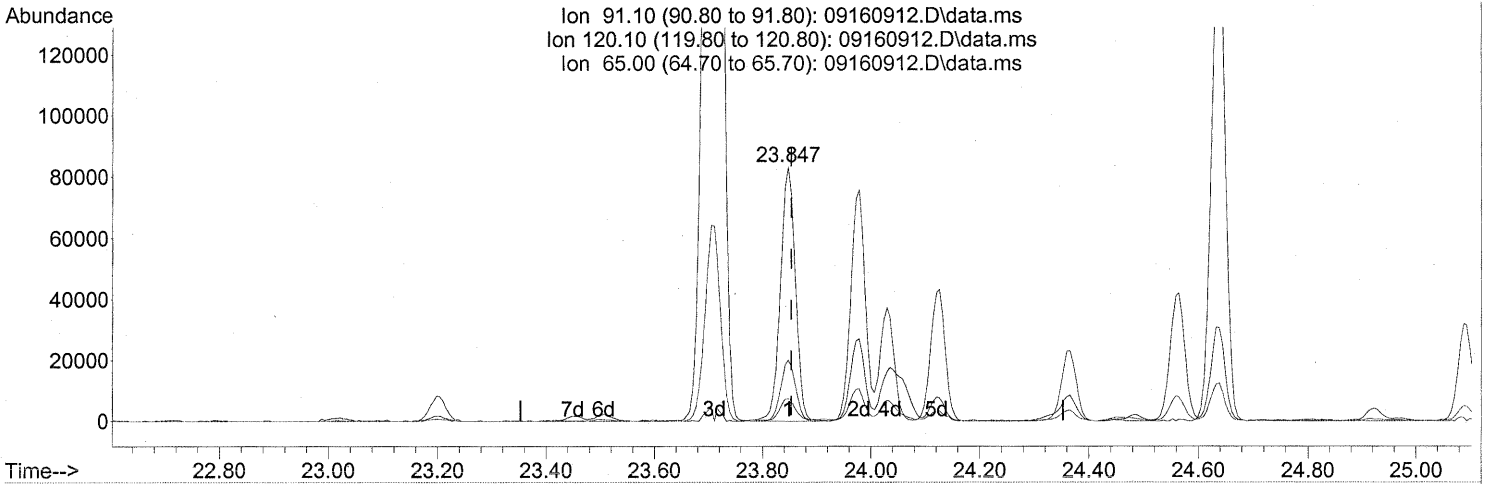
response 2406454

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(76) n-Propylbenzene (T)

23.847min (-0.006) 1.76ng

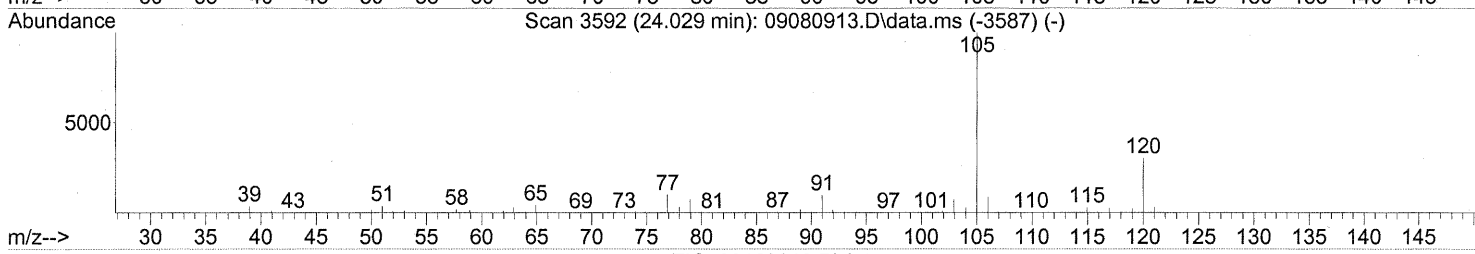
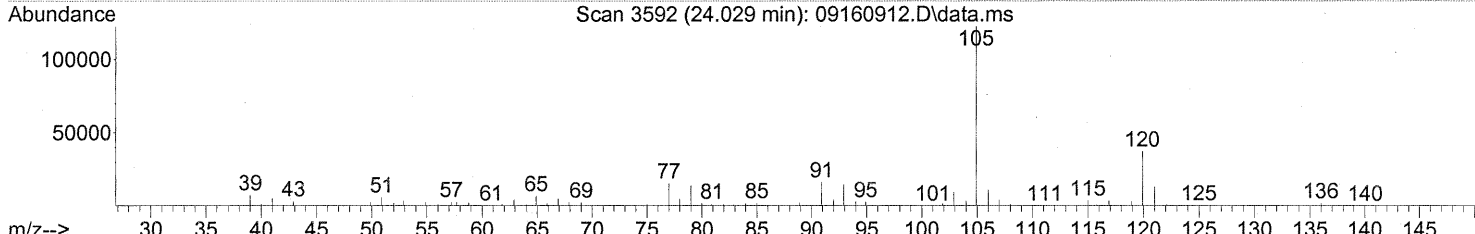
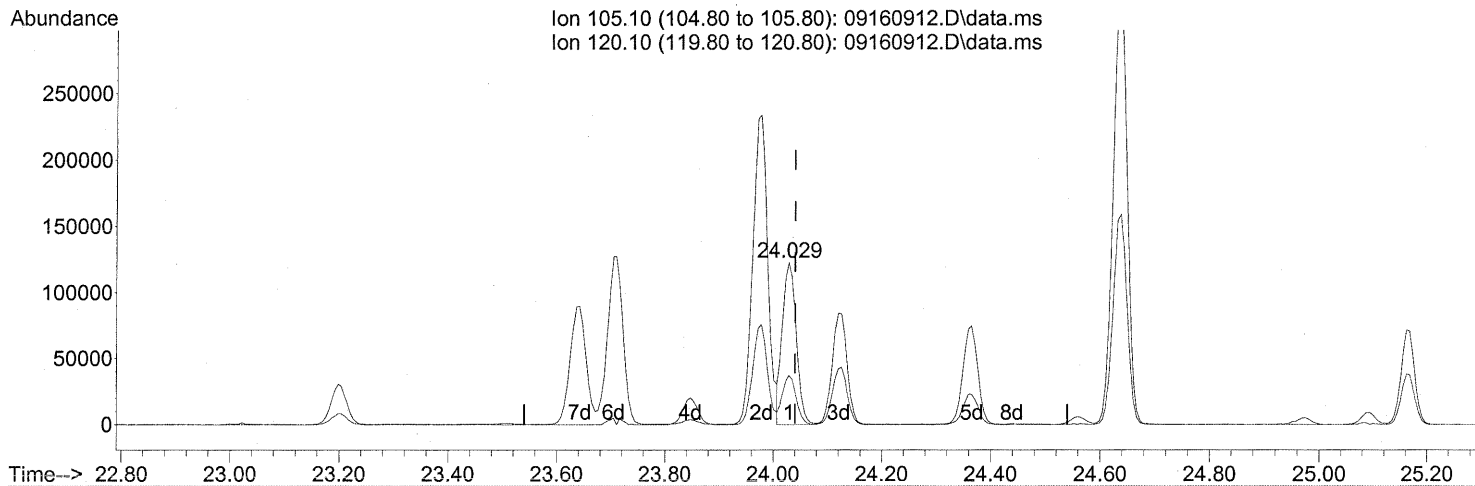
response 159658

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	23.85
65.00	10.30	10.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



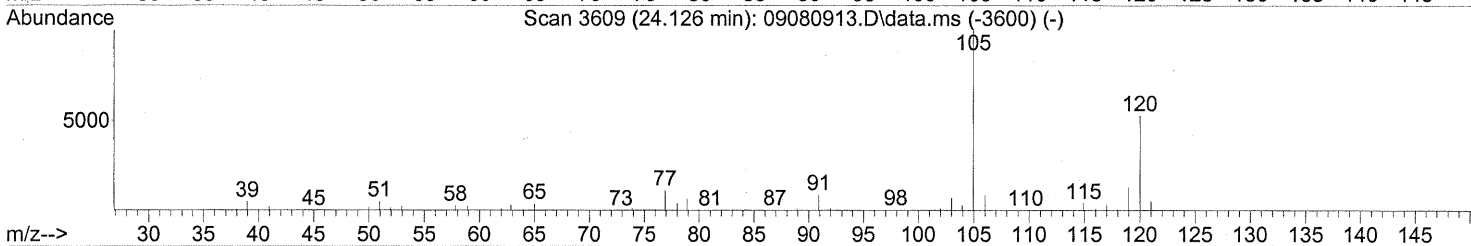
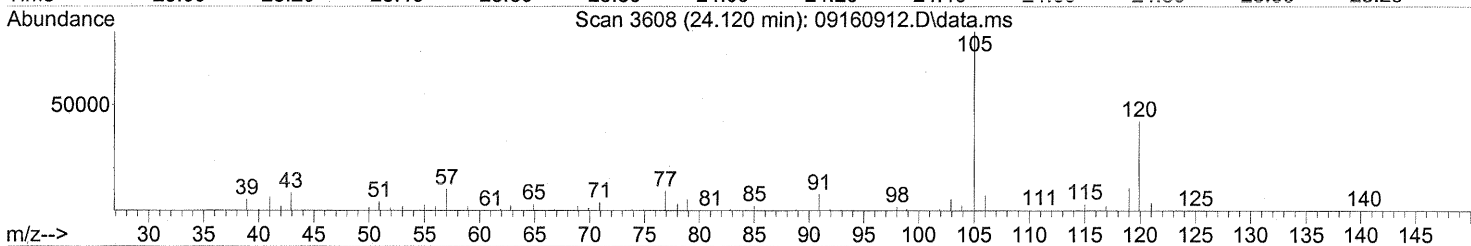
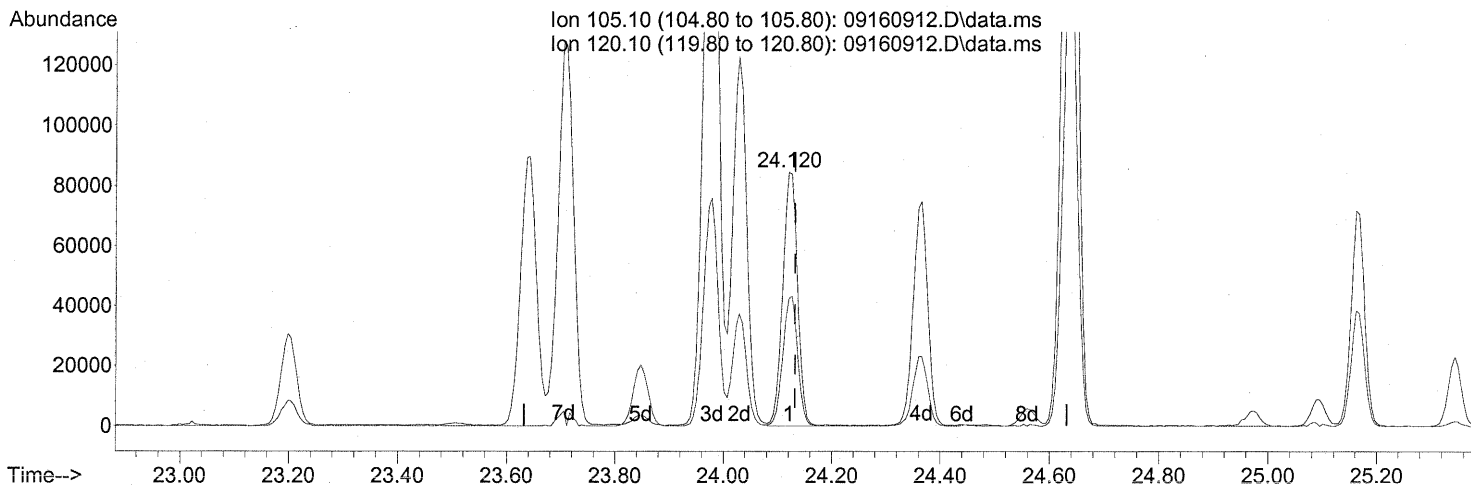
(78) 4-Ethyltoluene (T)
 24.029min (-0.011) 3.01ng
 response 217959

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160912.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.120min (-0.011) 2.66ng

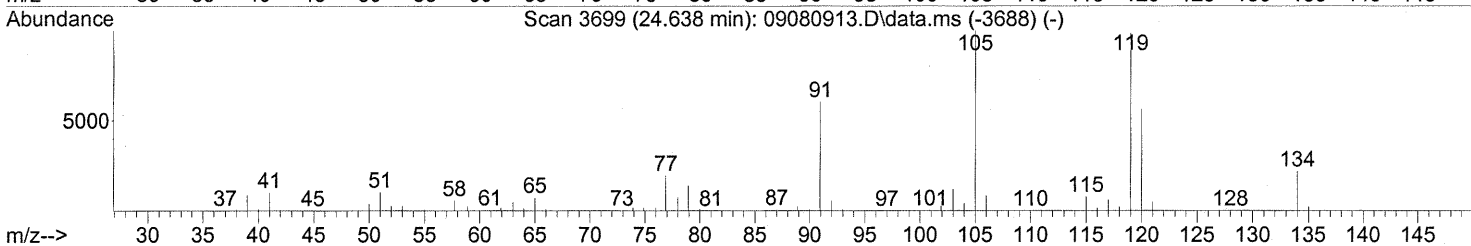
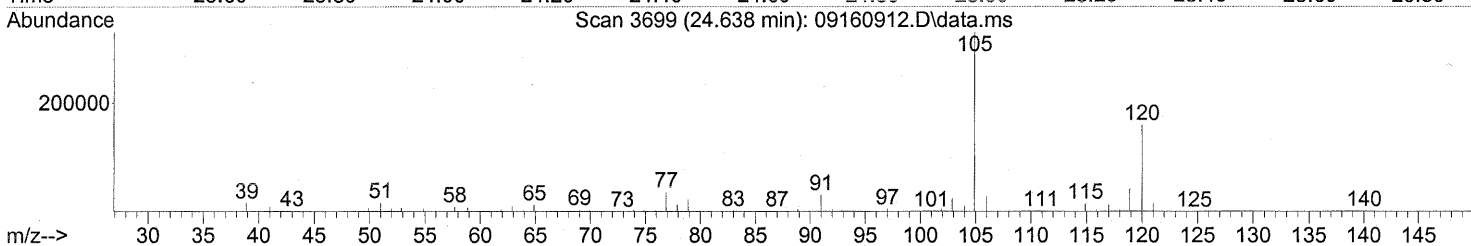
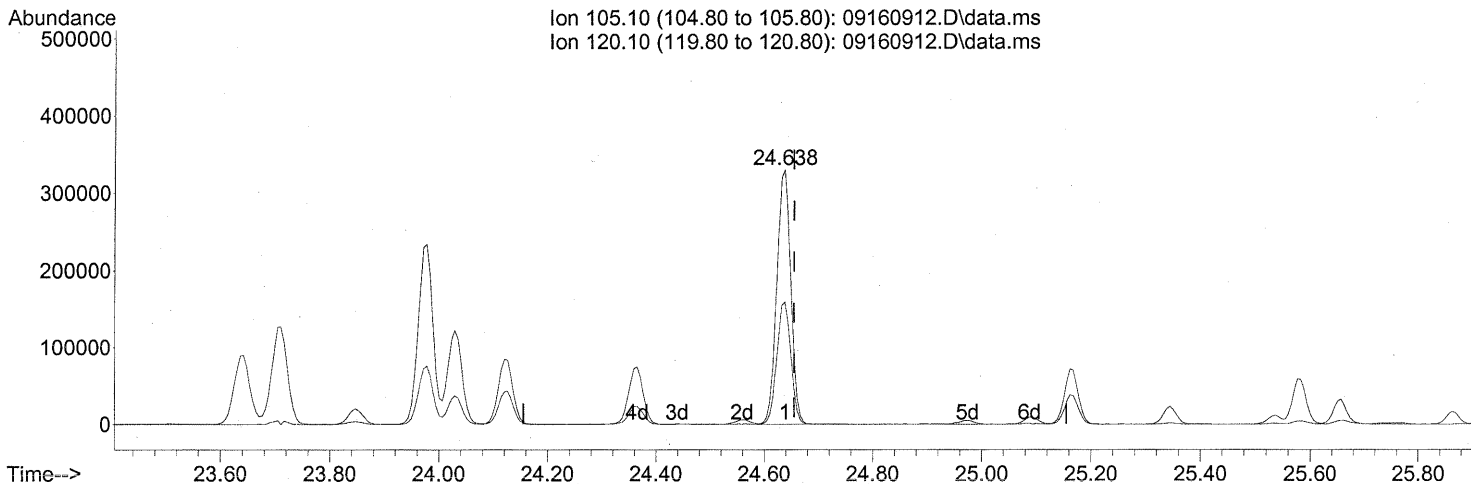
response 160197

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	50.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 9.27ng

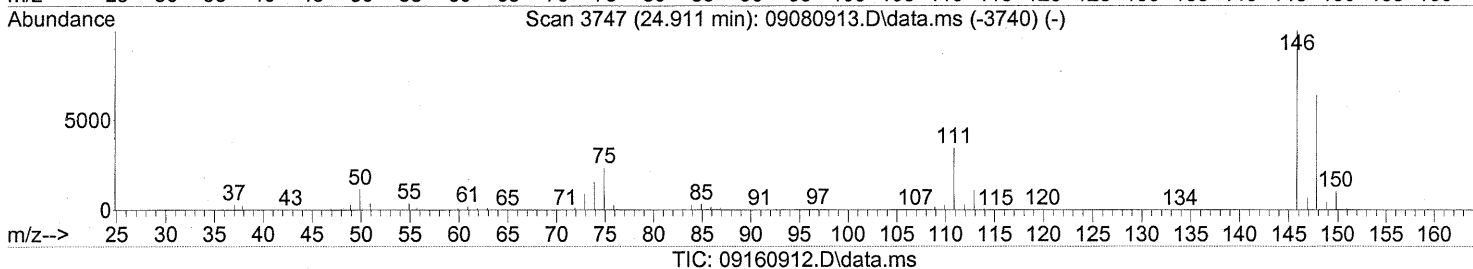
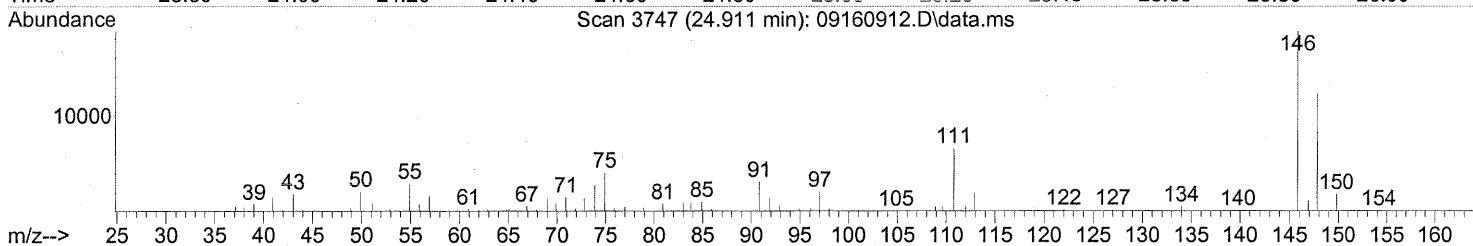
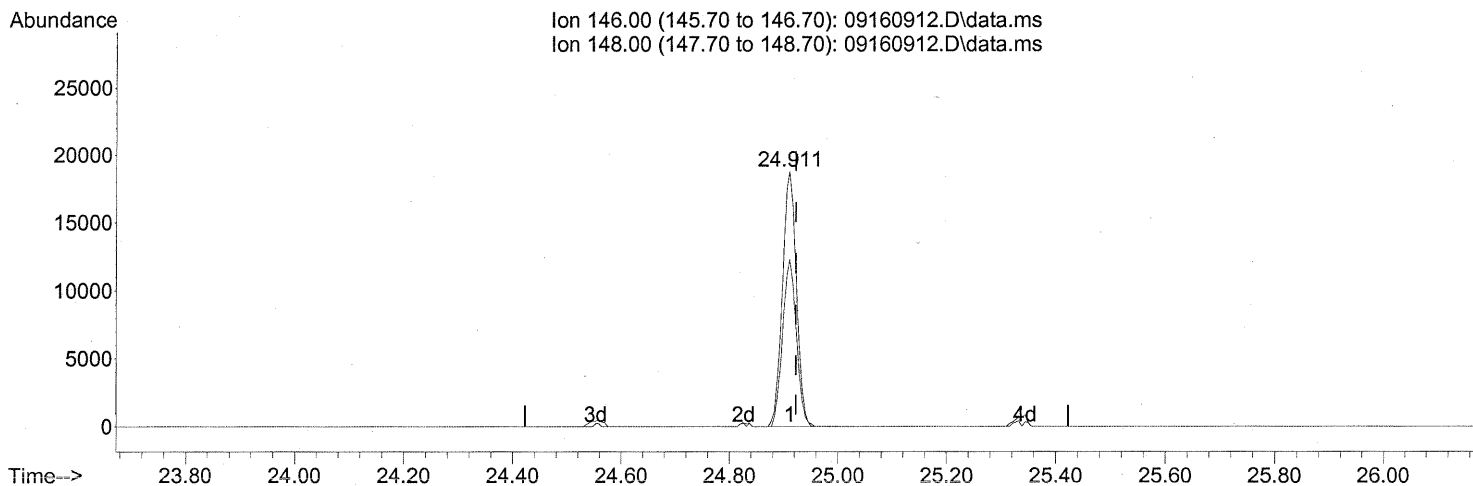
response 595340

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160912.D
Acq On : 16 Sep 2009 16:10
Operator : LH
Sample : P0903145-008 (700mL)
Misc : Environmental H & E 102717
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.86ng

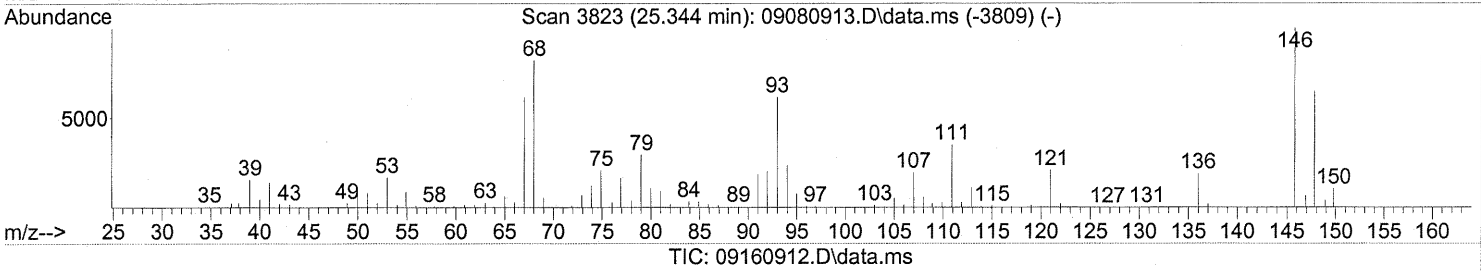
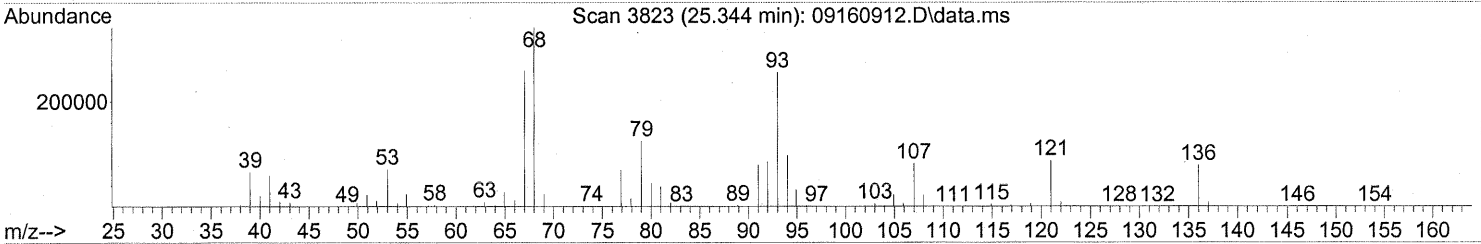
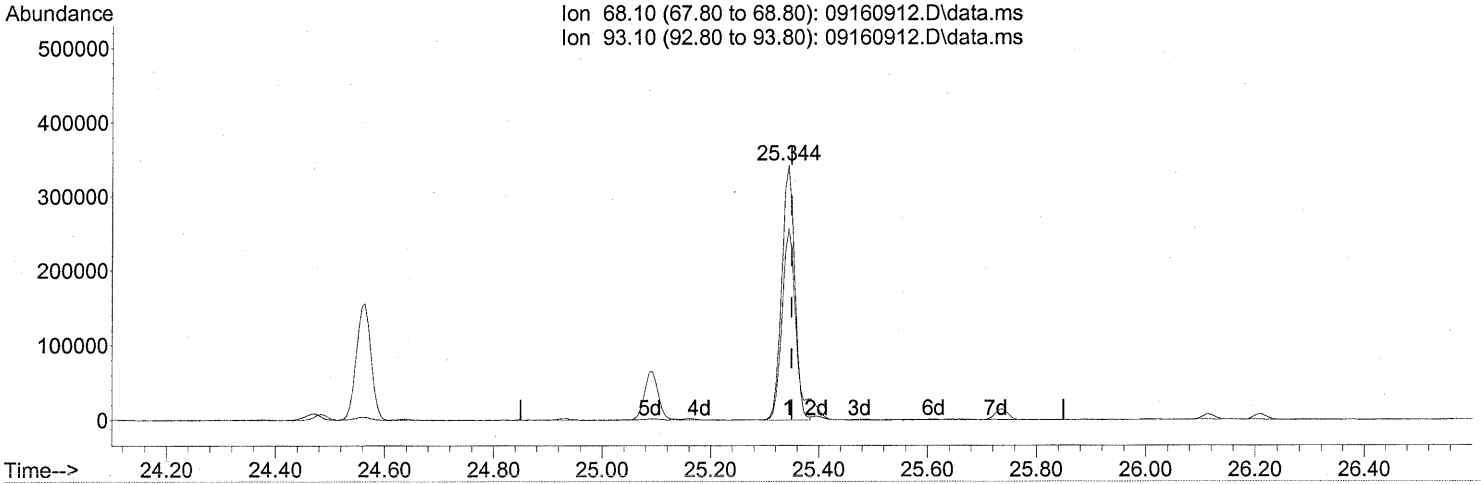
response 33516

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	64.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



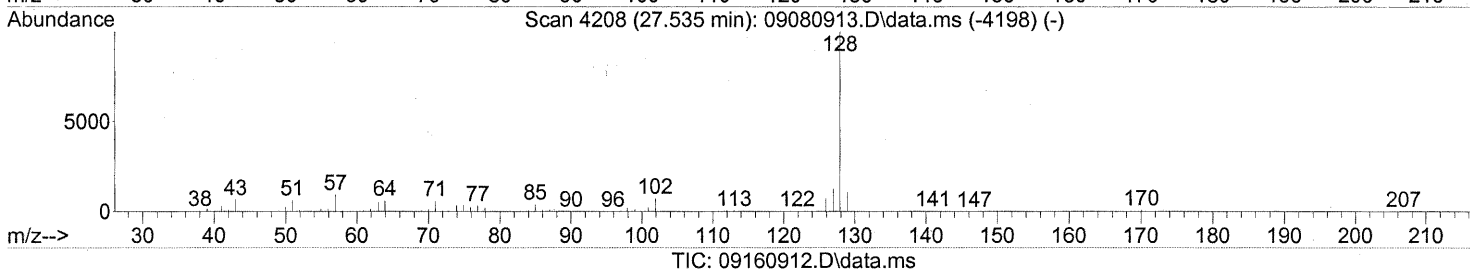
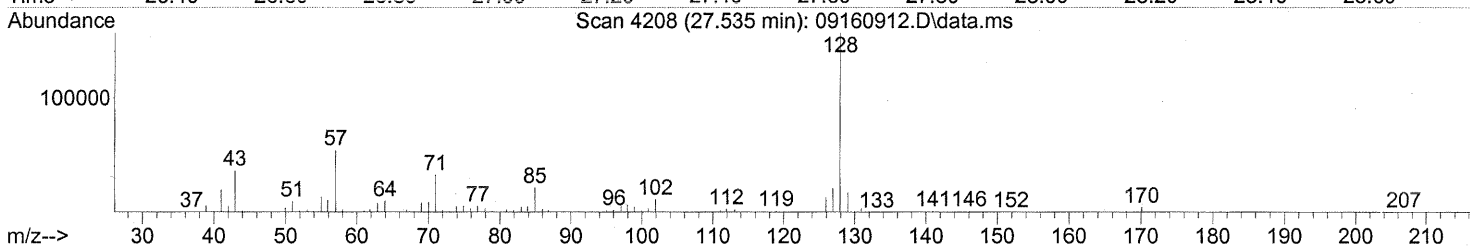
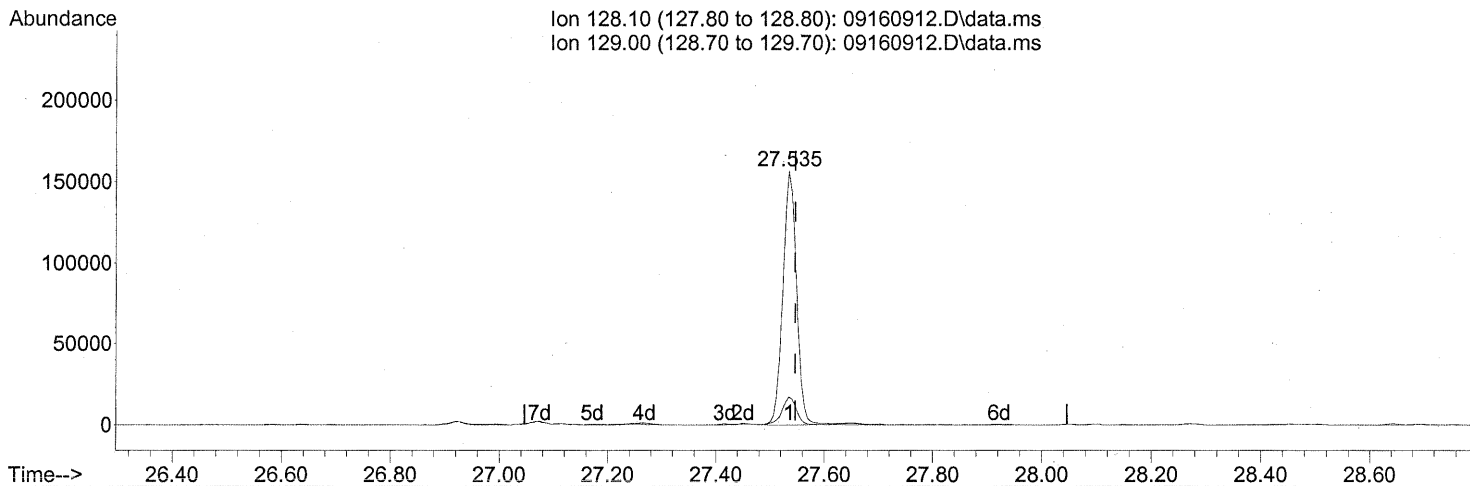
(91) d-Limonene (T)
 25.344min (-0.006) 24.93ng
 response 575183

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	84.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160912.D
 Acq On : 16 Sep 2009 16:10
 Operator : LH
 Sample : P0903145-008 (700mL)
 Misc : Environmental H & E 102717
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 17 07:23:13 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 2.95ng

response 275042

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.56
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102718

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P0903145-009

Test Code: EPA TO-15

Date Collected: 9/1/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: 9/4/09

Analyst: Lusine Hakobyan

Date Analyzed: 9/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.70 Liter(s)

Test Notes:

Container ID: AC01042

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	23	0.90	14	0.52	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.90	0.61	0.18	
74-87-3	Chloromethane	0.78	0.18	0.38	0.087	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.90	ND	0.13	
75-01-4	Vinyl Chloride	ND	0.18	ND	0.070	
106-99-0	1,3-Butadiene	ND	0.18	ND	0.081	
74-83-9	Bromomethane	ND	0.18	ND	0.046	
75-00-3	Chloroethane	ND	0.18	ND	0.068	
64-17-5	Ethanol	650	9.0	340	4.8	
75-05-8	Acetonitrile	220	0.90	130	0.54	E
107-02-8	Acrolein	7.6	0.90	3.3	0.39	
67-64-1	Acetone	140	9.0	60	3.8	M1
75-69-4	Trichlorofluoromethane	1.6	0.18	0.28	0.032	
67-63-0	2-Propanol (Isopropyl Alcohol)	210	0.90	84	0.37	
107-13-1	Acrylonitrile	ND	0.90	ND	0.41	
75-35-4	1,1-Dichloroethene	ND	0.18	ND	0.045	
75-09-2	Methylene Chloride	1.7	0.90	0.48	0.26	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	ND	0.058	
76-13-1	Trichlorotrifluoroethane	0.68	0.18	0.088	0.023	
75-15-0	Carbon Disulfide	ND	0.90	ND	0.29	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	ND	0.045	
75-34-3	1,1-Dichloroethane	ND	0.18	ND	0.044	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	ND	0.050	
108-05-4	Vinyl Acetate	ND	9.0	ND	2.6	
78-93-3	2-Butanone (MEK)	15	0.90	5.1	0.31	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102718
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01042

CAS Project ID: P0903145
CAS Sample ID: P0903145-009

Date Collected: 9/1/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 0.70 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.18	ND	0.045	
141-78-6	Ethyl Acetate	15	0.90	4.1	0.25	
110-54-3	n-Hexane	56	0.90	16	0.26	
67-66-3	Chloroform	3.9	0.18	0.79	0.037	
109-99-9	Tetrahydrofuran (THF)	1.4	0.90	0.49	0.31	
107-06-2	1,2-Dichloroethane	5.5	0.18	1.4	0.044	
71-55-6	1,1,1-Trichloroethane	ND	0.18	ND	0.033	
71-43-2	Benzene	23	0.18	7.3	0.056	
56-23-5	Carbon Tetrachloride	0.62	0.18	0.098	0.029	
110-82-7	Cyclohexane	7.1	0.90	2.1	0.26	
78-87-5	1,2-Dichloropropane	ND	0.18	ND	0.039	
75-27-4	Bromodichloromethane	ND	0.18	ND	0.027	
79-01-6	Trichloroethene	1.2	0.18	0.22	0.034	
123-91-1	1,4-Dioxane	ND	0.90	ND	0.25	
80-62-6	Methyl Methacrylate	ND	0.90	ND	0.22	
142-82-5	n-Heptane	20	0.90	4.8	0.22	
10061-01-5	cis-1,3-Dichloropropene	ND	0.90	ND	0.20	
108-10-1	4-Methyl-2-pentanone	1.5	0.90	0.36	0.22	
10061-02-6	trans-1,3-Dichloropropene	ND	0.90	ND	0.20	
79-00-5	1,1,2-Trichloroethane	ND	0.18	ND	0.033	
108-88-3	Toluene	92	0.90	24	0.24	
591-78-6	2-Hexanone	ND	0.90	ND	0.22	
124-48-1	Dibromochloromethane	ND	0.18	ND	0.021	
106-93-4	1,2-Dibromoethane	ND	0.18	ND	0.023	
123-86-4	n-Butyl Acetate	4.5	0.90	0.94	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **434**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102718
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01042

Date Collected: 9/1/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 0.70 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	11	0.90	2.4	0.19	
127-18-4	Tetrachloroethene	0.23	0.18	0.035	0.027	
108-90-7	Chlorobenzene	ND	0.18	ND	0.039	
100-41-4	Ethylbenzene	18	0.90	4.2	0.21	
179601-23-1	m,p-Xylenes	58	0.90	13	0.21	
75-25-2	Bromoform	ND	0.90	ND	0.087	
100-42-5	Styrene	3.3	0.90	0.79	0.21	
95-47-6	o-Xylene	20	0.90	4.5	0.21	
111-84-2	n-Nonane	7.2	0.90	1.4	0.17	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	ND	0.026	
98-82-8	Cumene	1.6	0.90	0.34	0.18	
80-56-8	alpha-Pinene	130	0.90	23	0.16	
103-65-1	n-Propylbenzene	3.7	0.90	0.74	0.18	
622-96-8	4-Ethyltoluene	6.3	0.90	1.3	0.18	
108-67-8	1,3,5-Trimethylbenzene	5.6	0.90	1.1	0.18	
95-63-6	1,2,4-Trimethylbenzene	19	0.90	3.9	0.18	
100-44-7	Benzyl Chloride	ND	0.18	ND	0.035	
541-73-1	1,3-Dichlorobenzene	ND	0.18	ND	0.030	
106-46-7	1,4-Dichlorobenzene	1.3	0.18	0.22	0.030	
95-50-1	1,2-Dichlorobenzene	ND	0.18	ND	0.030	
5989-27-5	d-Limonene	43	0.90	7.8	0.16	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.90	ND	0.093	
120-82-1	1,2,4-Trichlorobenzene	ND	0.90	ND	0.12	
91-20-3	Naphthalene	5.6	0.90	1.1	0.17	
87-68-3	Hexachlorobutadiene	ND	0.90	ND	0.084	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

P

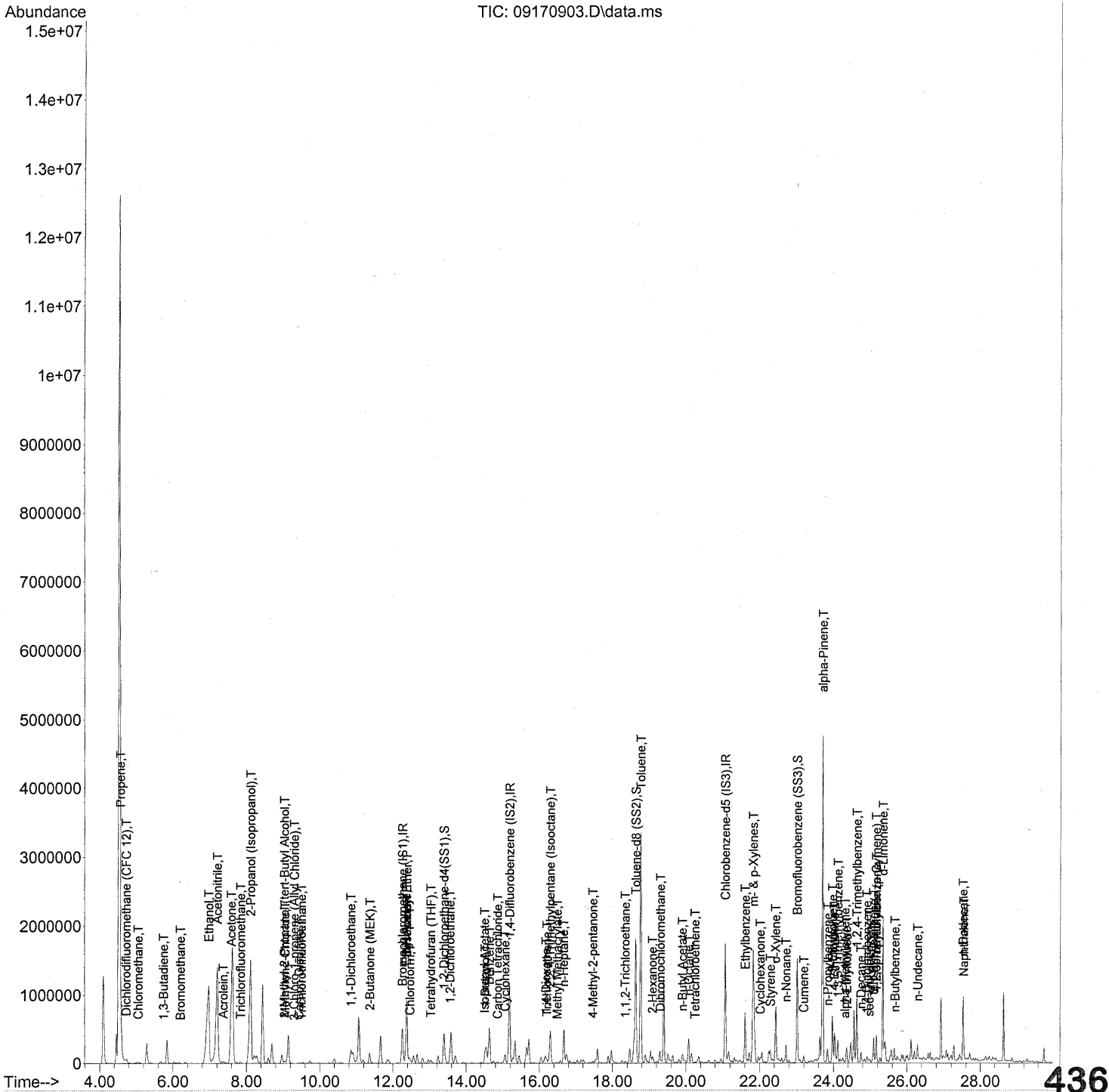
Date: _____

9/22/09

435

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:36:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718 ✓
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:36:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

WA 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.26	130	336139	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1618994	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	683897	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	448044	24.187	ng	-0.02
Spiked Amount	25.000		Recovery	=	96.76%	✓
57) Toluene-d8 (SS2)	18.63	98	1677389	24.503	ng	0.00
Spiked Amount	25.000		Recovery	=	98.00%	✓
73) Bromofluorobenzene (SS3)	23.02	174	664592	27.091	ng	0.00
Spiked Amount	25.000		Recovery	=	108.36%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.58	42	177260	12.950	ng	# 87
3) Dichlorodifluoromethan...	4.74	85	43978	1.681	ng	98
4) Chloromethane	5.05	50	9332	0.435	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	763	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.75	54	975	0.068	ng	# 80
8) Bromomethane	6.21	94	685	0.050	ng	94
9) Chloroethane	6.53	64	408	N.D.		
10) Ethanol	6.98	45	3569933m	359.760	ng	
11) Acetonitrile	7.21	41	3024945	120.529	ng	E 100
12) Acrolein	7.37	56	31099	4.212	ng	99
13) Acetone	7.59	58	790180	79.043	ng	# M 71
14) Trichlorofluoromethane	7.85	101	20925	0.863	ng	99
15) 2-Propanol (Isopropanol)	8.12	45	3924837m	113.992	ng	
16) Acrylonitrile	0.00	53	0	N.D.	d	
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	12352	0.347	ng	# 1
19) Methylene Chloride	9.05	84	14214	0.932	ng	# 78
20) 3-Chloro-1-propene (Al...	9.30	41	1364	0.076	ng	# 40
21) Trichlorotrifluoroethane	9.50	151	4475	0.375	ng	# 71
22) Carbon Disulfide	9.43	76	16586	0.314	ng	98
23) trans-1,2-Dichloroethene	10.41	61	737	N.D.		
24) 1,1-Dichloroethane	10.85	63	1655	0.069	ng	# 1
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	d	
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.37	72	79508	8.280	ng	# 72
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.37	87	9680	0.870	ng	# 1
30) Ethyl Acetate	12.36	61	39643	8.132	ng	# 77
31) n-Hexane	12.37	57	596468	30.888	ng	9437

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:36:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.46	83	50733	2.142 ng		99
34) Tetrahydrofuran (THF)	13.03	72	7079	0.797 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.56	62	49712	3.043 ng		98
38) 1,1,1-Trichloroethane	13.93	97	444	N.D.		
39) Isopropyl Acetate	14.50	61	3362	0.375 ng	#	1
40) 1-Butanol	14.52	56	145735	9.977 ng		100
41) Benzene	14.63	78	744836	12.900 ng		100
42) Carbon Tetrachloride	14.86	117	5936	0.342 ng		97
43) Cyclohexane	15.06	84	83266	3.952 ng		91
44) tert-Amyl Methyl Ether	15.55	73	1137	N.D.		
45) 1,2-Dichloropropane	15.87	63	205	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.21	130	11577	0.666 ng		96
48) 1,4-Dioxane	16.18	88	618	0.050 ng	#	59
49) 2,2,4-Trimethylpentane...	16.30	57	597002	10.263 ng		96
50) Methyl Methacrylate	16.49	100	930	0.140 ng	#	1
51) n-Heptane	16.67	71	159753	10.842 ng		92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	10655	0.828 ng		89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.35	97	1343	0.092 ng	#	1
58) Toluene	18.77	91	3267035	51.122 ng		99
59) 2-Hexanone	19.09	43	57550	1.867 ng	# PP	58
60) Dibromochloromethane	19.31	129	1081	0.068 ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	87274	2.474 ng		82
63) n-Octane	20.08	57	74735	6.230 ng		88
64) Tetrachloroethene	20.25	166	2563	0.130 ng		91
65) Chlorobenzene	0.00	112	0	N.D. d		
66) Ethylbenzene	21.61	91	704088	10.034 ng		97
67) m- & p-Xylenes	21.83	91	1760243	32.093 ng		95
68) Bromoform	21.93	173	451	N.D.		
69) Styrene	22.29	104	83748	1.859 ng		96
70) o-Xylene	22.44	91	614235	10.960 ng		95
71) n-Nonane	22.71	43	108385	3.985 ng		92
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. d		
74) Cumene	23.20	105	70224	0.915 ng		98
75) alpha-Pinene	23.71	93	2517921	69.851 ng		95
76) n-Propylbenzene	23.85	91	182330	2.033 ng		97
77) 3-Ethyltoluene	23.98	105	511842	7.061 ng		98
78) 4-Ethyltoluene	24.03	105	251314	3.511 ng		98
79) 1,3,5-Trimethylbenzene	24.13	105	185176	3.108 ng		9438

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:36:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

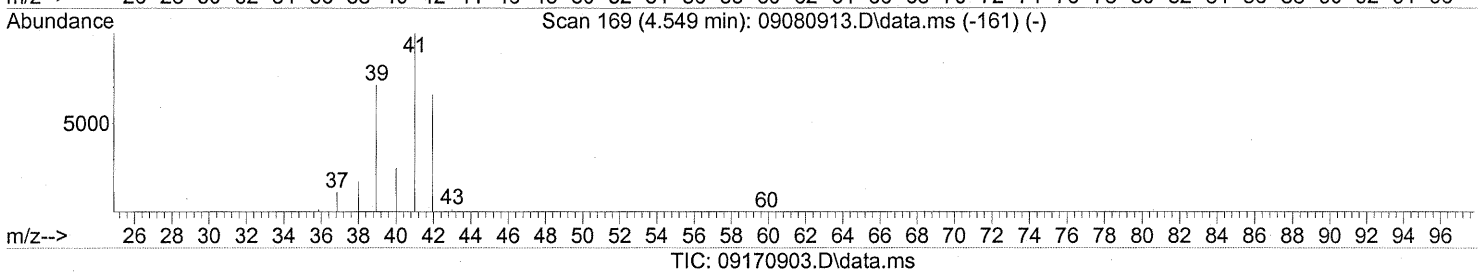
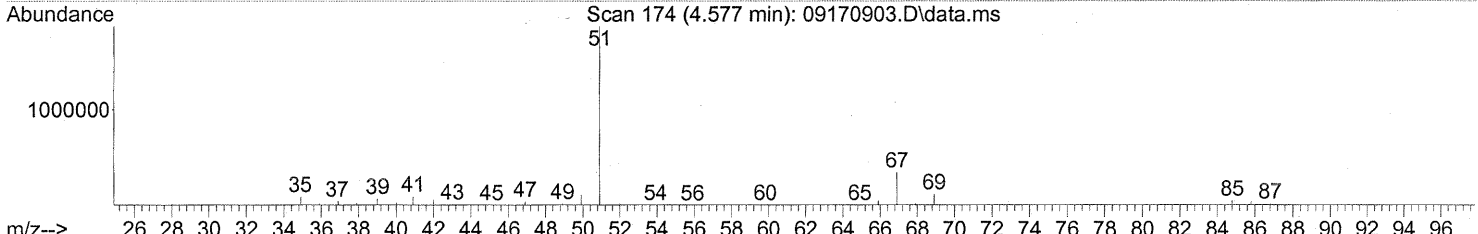
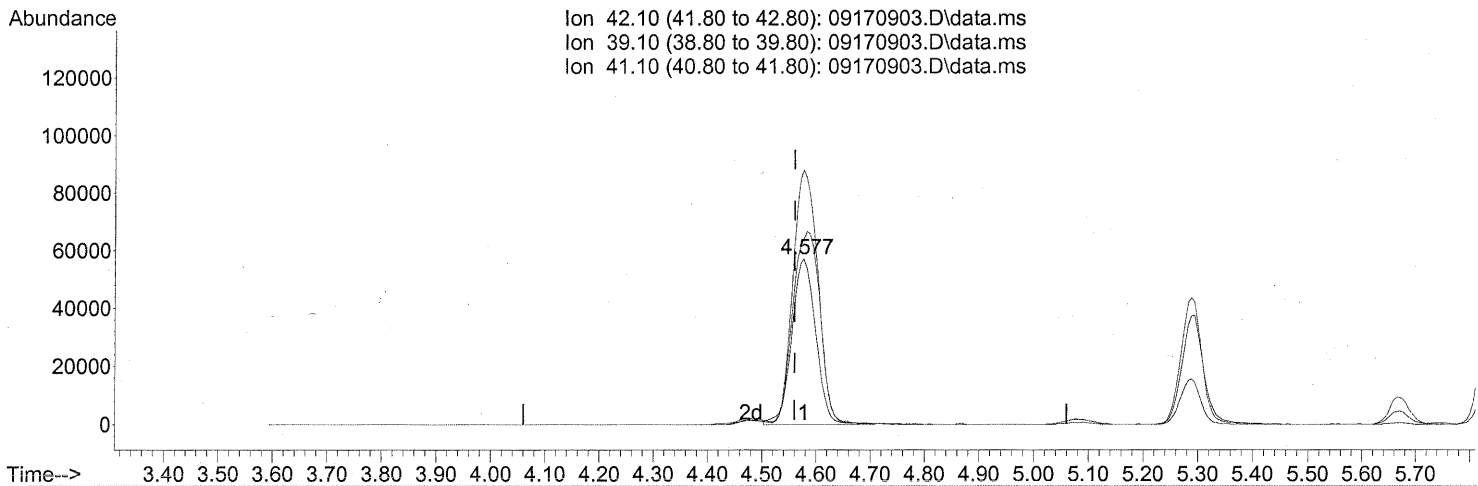
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	2527	0.074	ng	# 55
81) 2-Ethyltoluene	24.36	105	159413	2.097	ng	96
82) 1,2,4-Trimethylbenzene	24.64	105	677012	10.653	ng	93
83) n-Decane	24.75	57	60628	1.823	ng	89
84) Benzyl Chloride	24.79	91	1134	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	69	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	28719	0.745	ng	99
87) sec-Butylbenzene	24.97	105	10579	0.127	ng	# 82
88) 4-Isopropyltoluene (p-...	25.16	119	134300	1.666	ng	98
89) 1,2,3-Trimethylbenzene	25.17	105	142197	2.285	ng	100
90) 1,2-Dichlorobenzene	25.34	146	522	N.D.		
91) d-Limonene	25.34	68	549890	24.090	ng	# 73
92) 1,2-Dibromo-3-Chloropr...	26.29	157	513	N.D.		
93) n-Undecane	26.29	57	100380	2.616	ng	93
94) 1,2,4-Trichlorobenzene	27.40	180	214	N.D.		
95) Naphthalene	27.53	128	285954	3.098	ng	98
96) n-Dodecane	27.52	57	267455	7.074	ng	93
97) Hexachlorobutadiene	27.96	225	476	N.D.		
98) Cyclohexanone	22.02	55	51035	2.159	ng	91
99) tert-Butylbenzene	25.09	119	20860	0.333	ng	95
100) n-Butylbenzene	25.67	91	45797	0.718	ng	# 65

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.577min (+0.017) 12.95ng
 response 177260

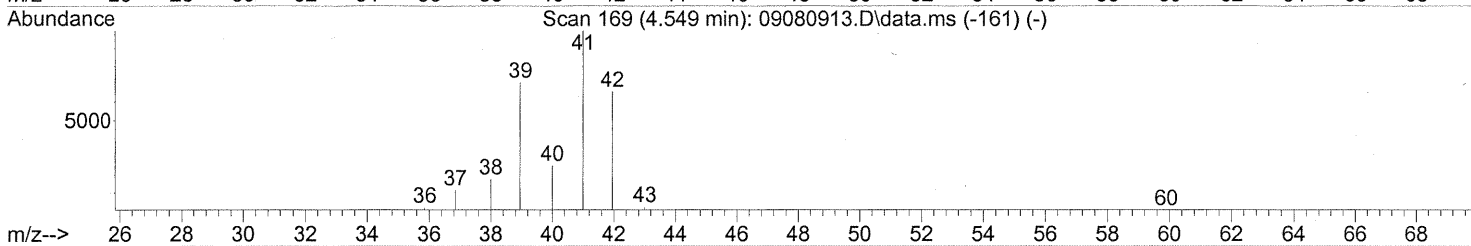
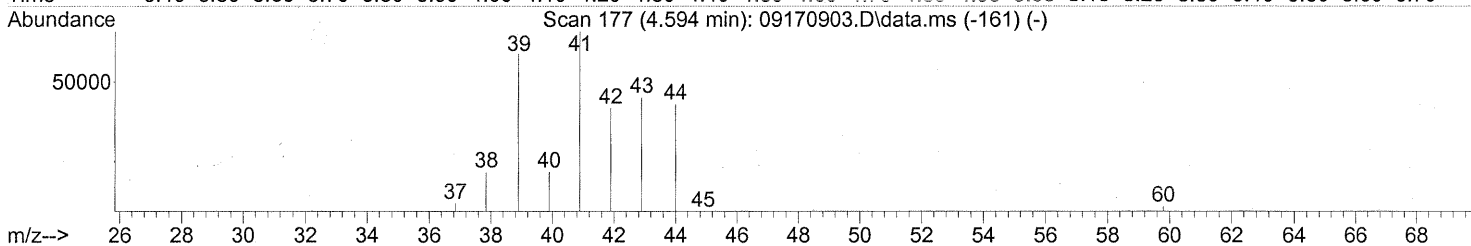
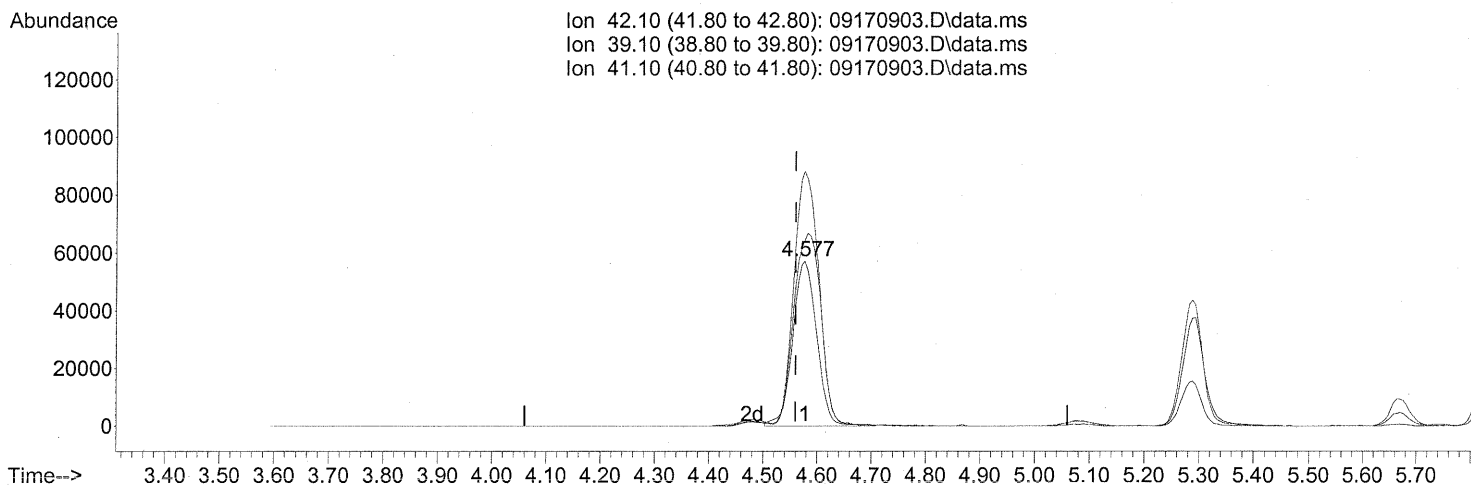
Ion	Exp%	Act%
42.10	100	100
39.10	109.30	132.98#
41.10	152.10	160.53
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(2) Propene (T)

4.577min (+0.017) 12.95ng

response 177260

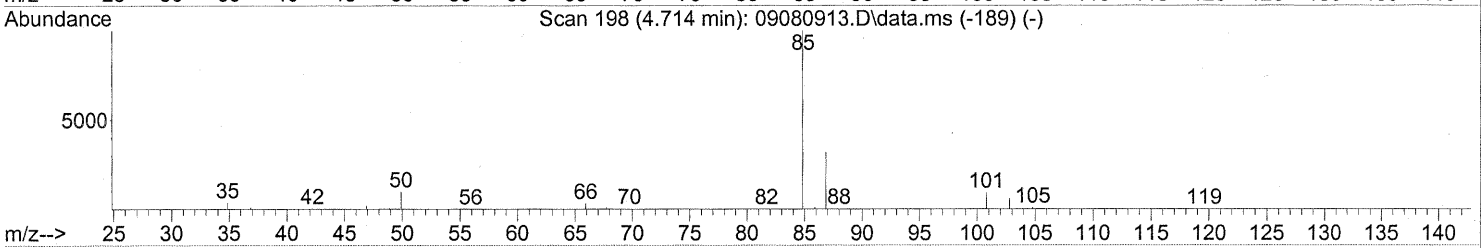
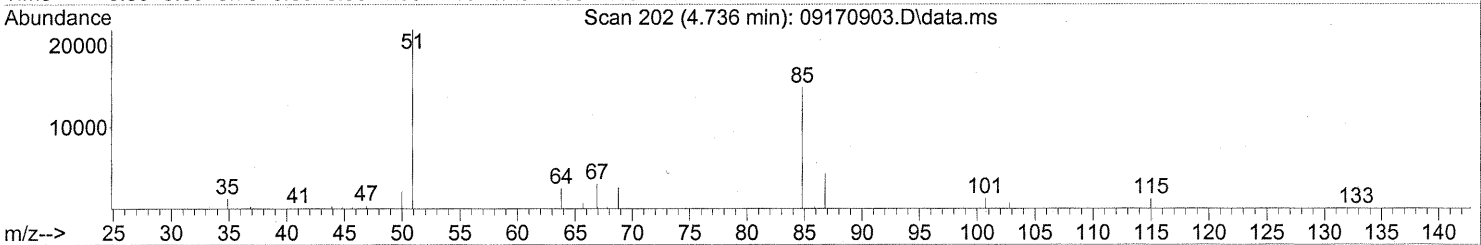
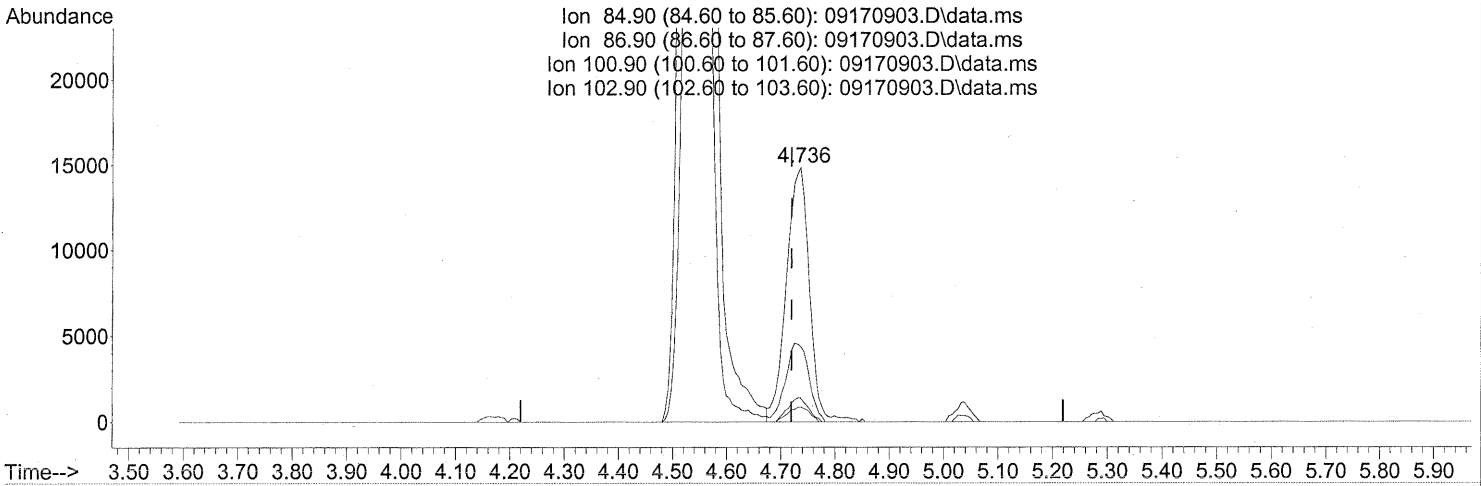
Ion	Exp%	Act%
42.10	100	100
39.10	109.30	132.98#
41.10	152.10	160.53
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

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TIC: 09170903.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.736min (+0.017) 1.68ng

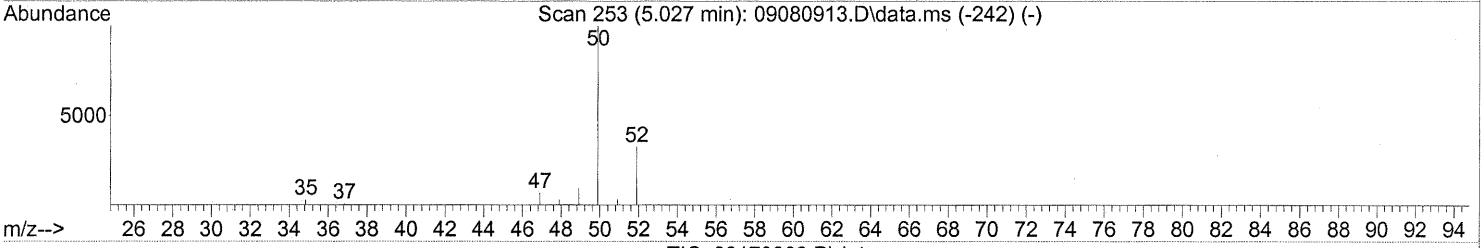
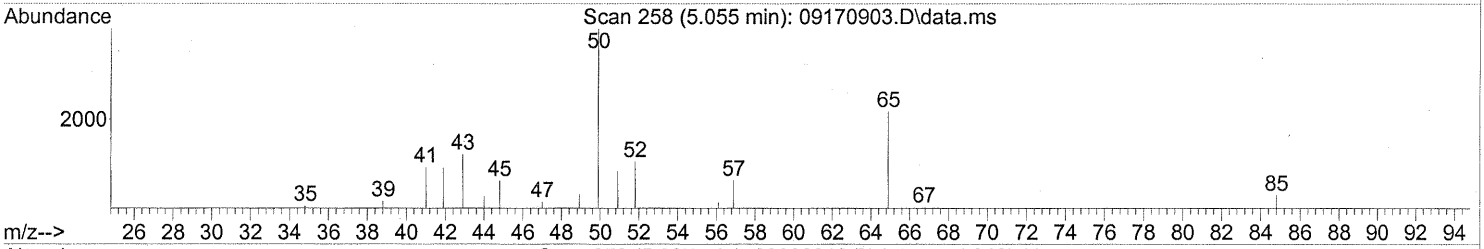
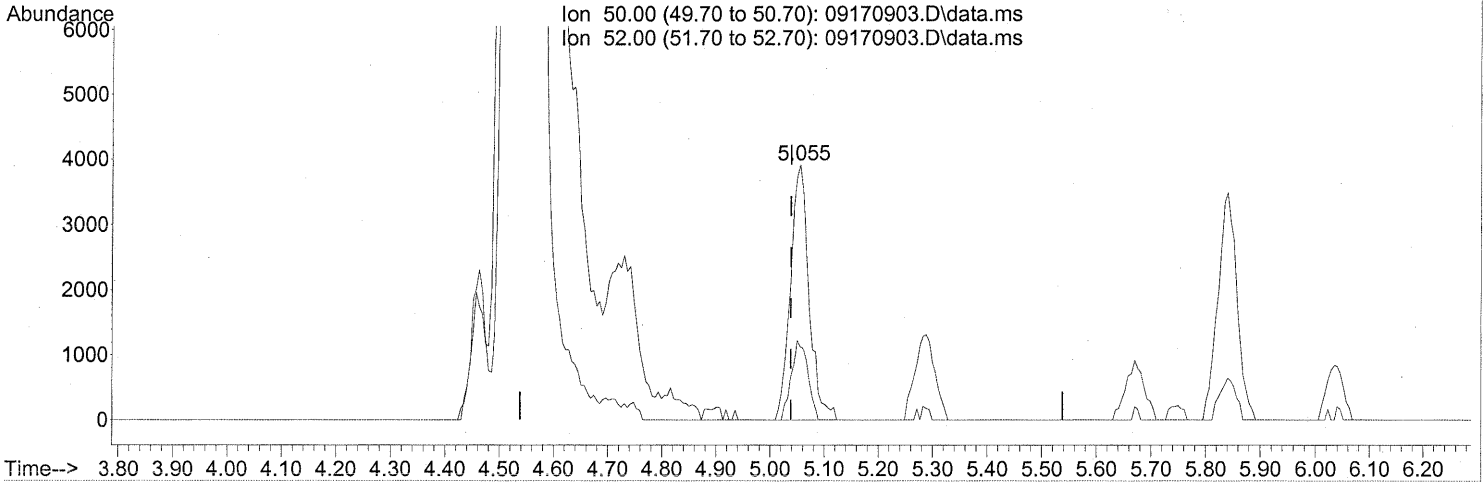
response 43978

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	31.22
100.90	8.60	8.50
102.90	5.90	5.44

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.055min (+0.017) 0.44ng

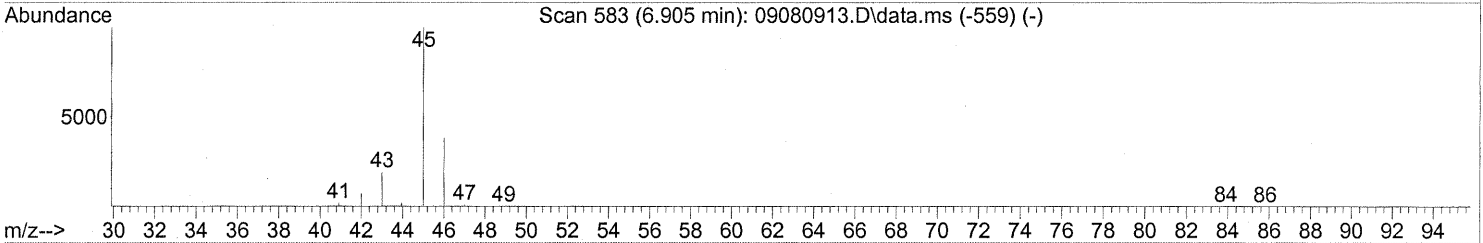
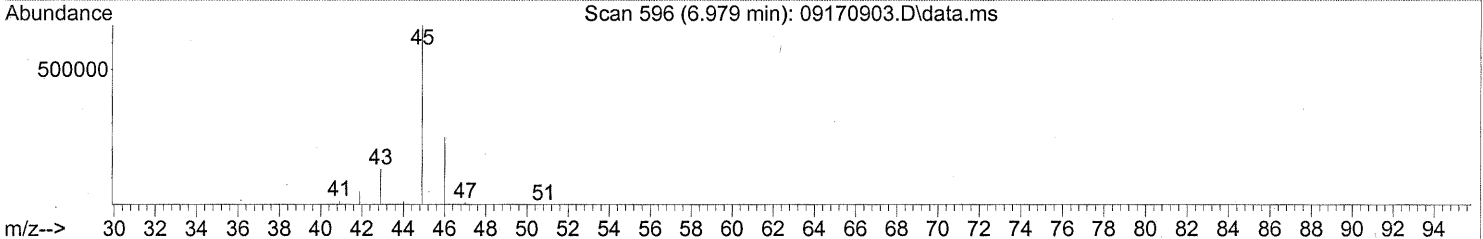
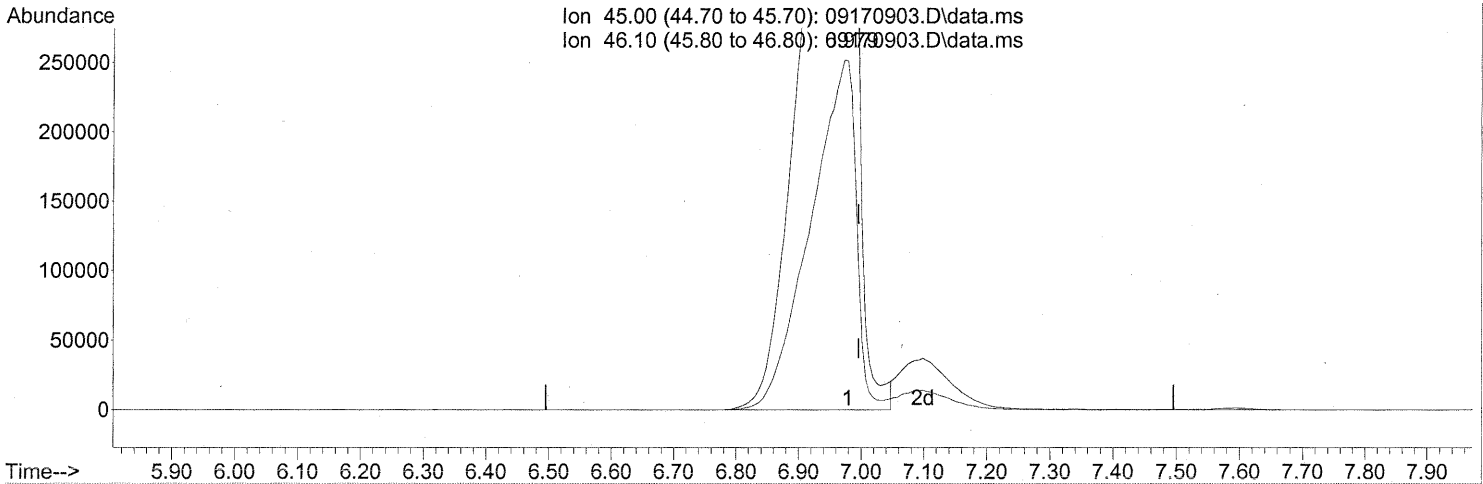
response 9332

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	27.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.979min (-0.017) 338.58ng
 response 3359746

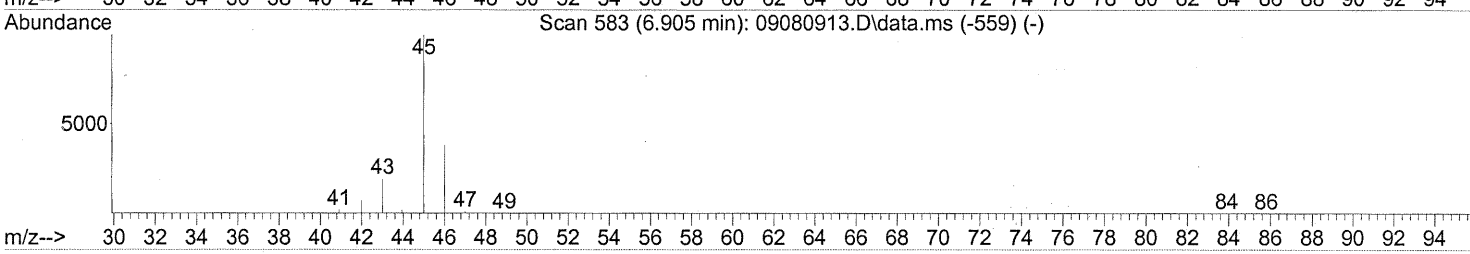
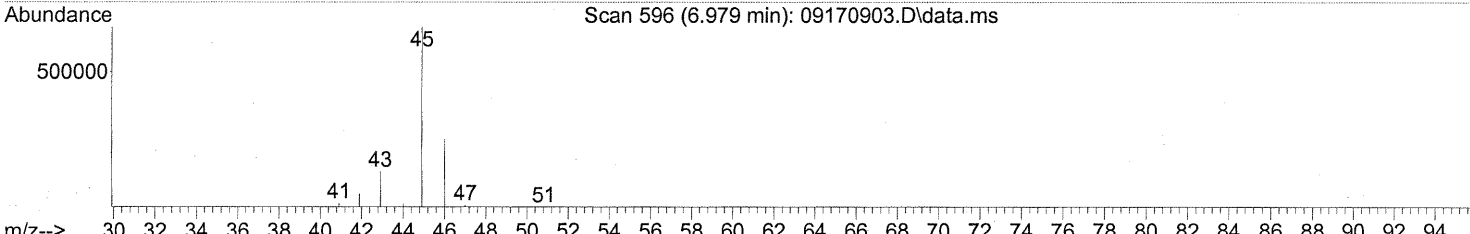
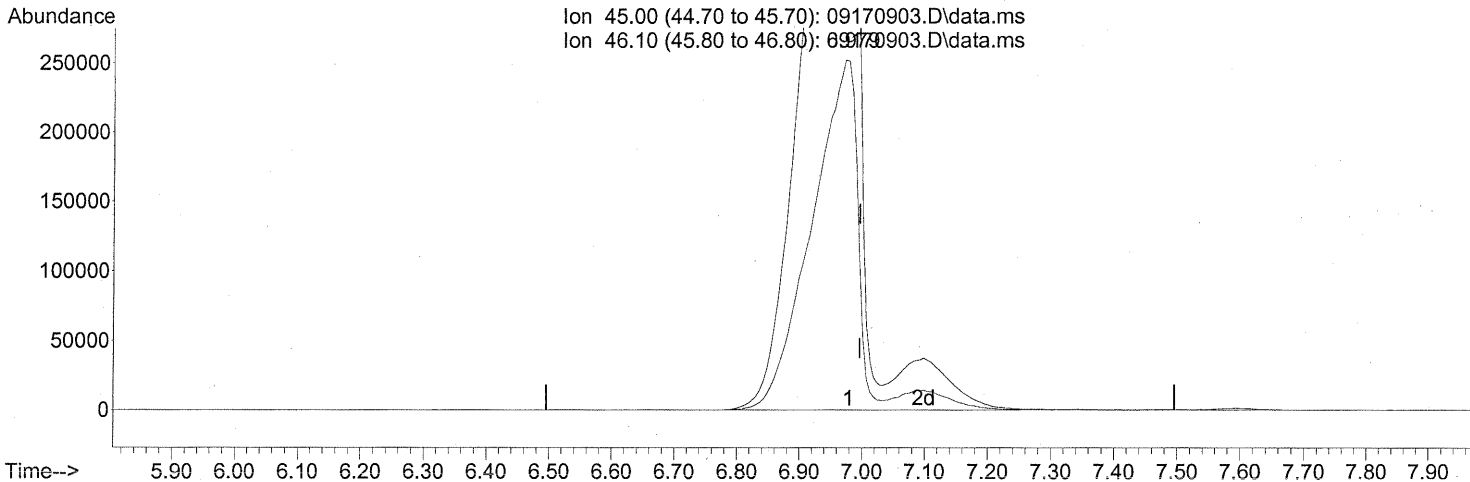
PT

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.979min (-0.017) 359.76ng m
 response 3569933

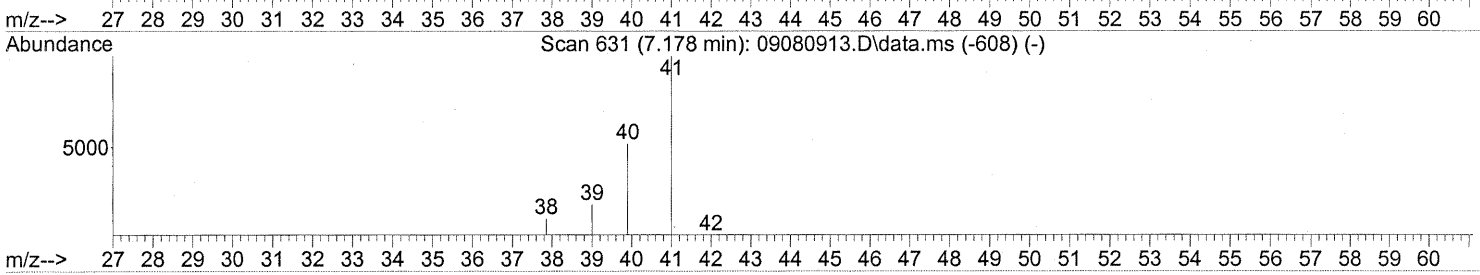
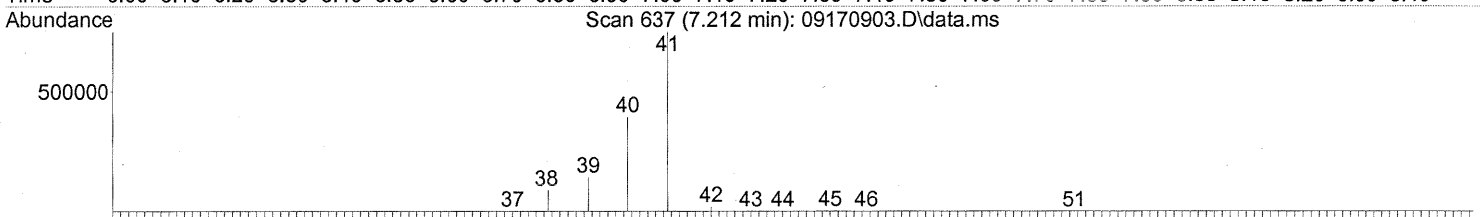
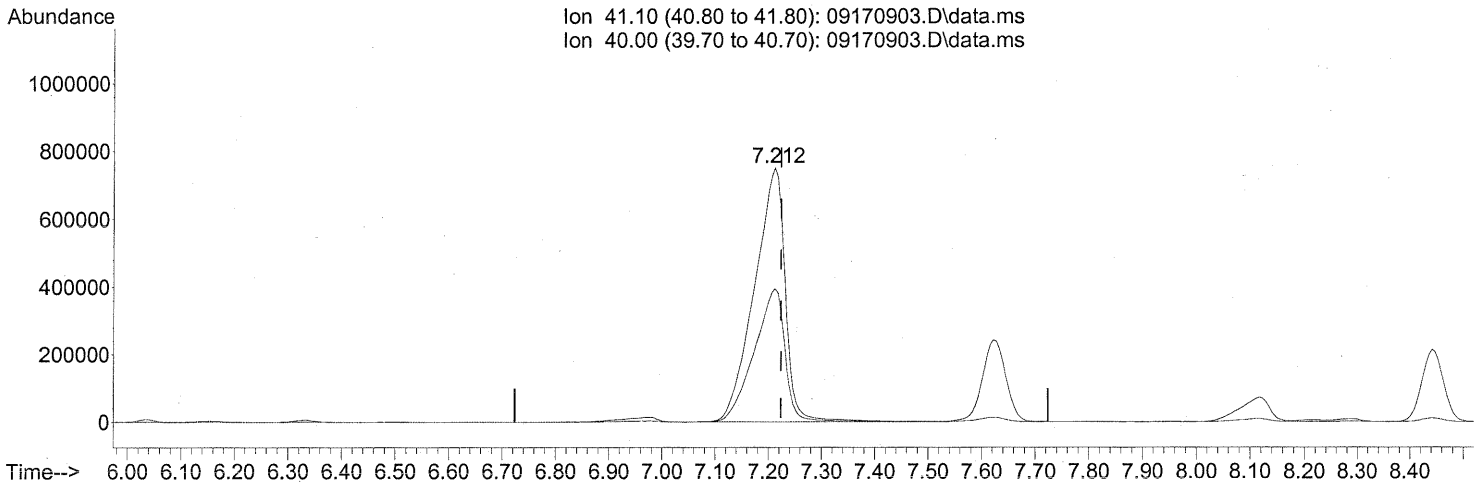
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.65
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
LH 9/21/09
8m 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(11) Acetonitrile (T)

7.212min (-0.011) 120.53ng *E*

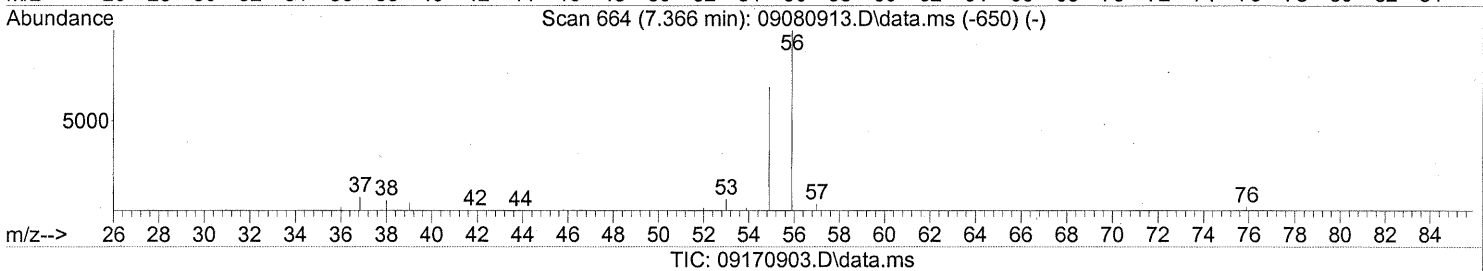
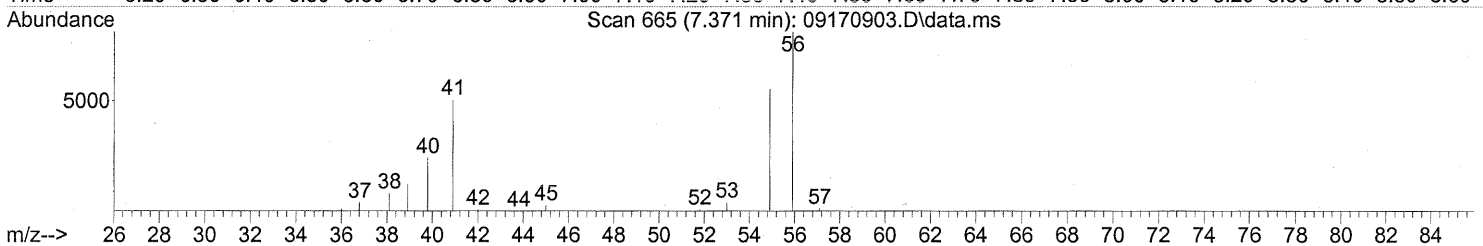
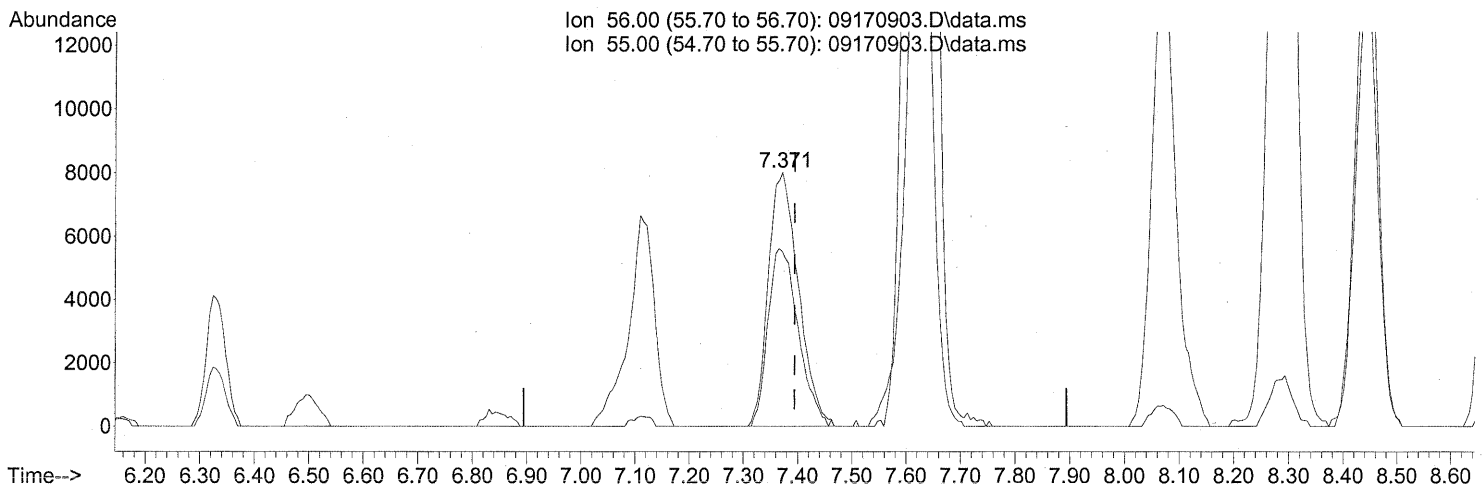
response 3024945

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.371min (-0.023) 4.21ng

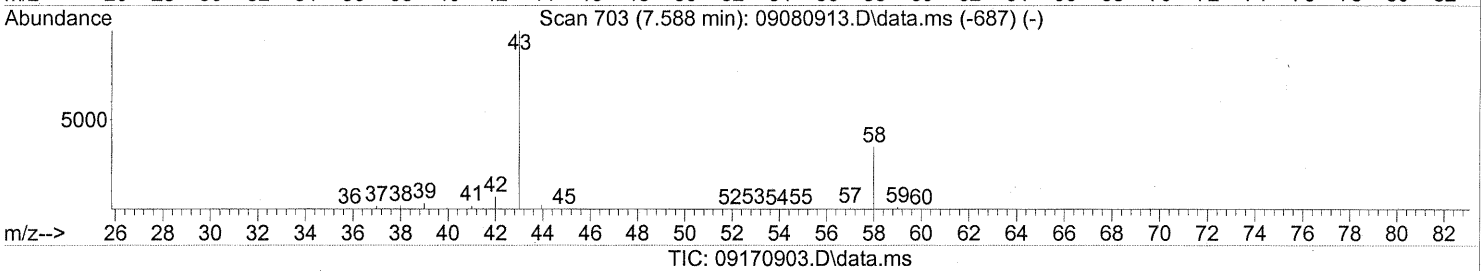
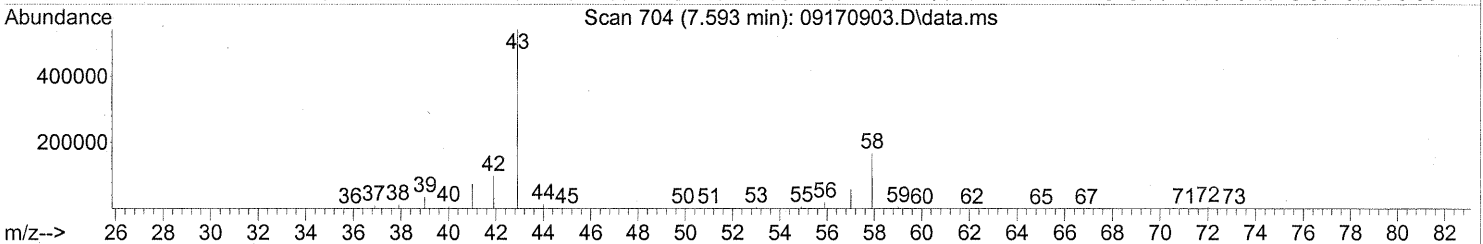
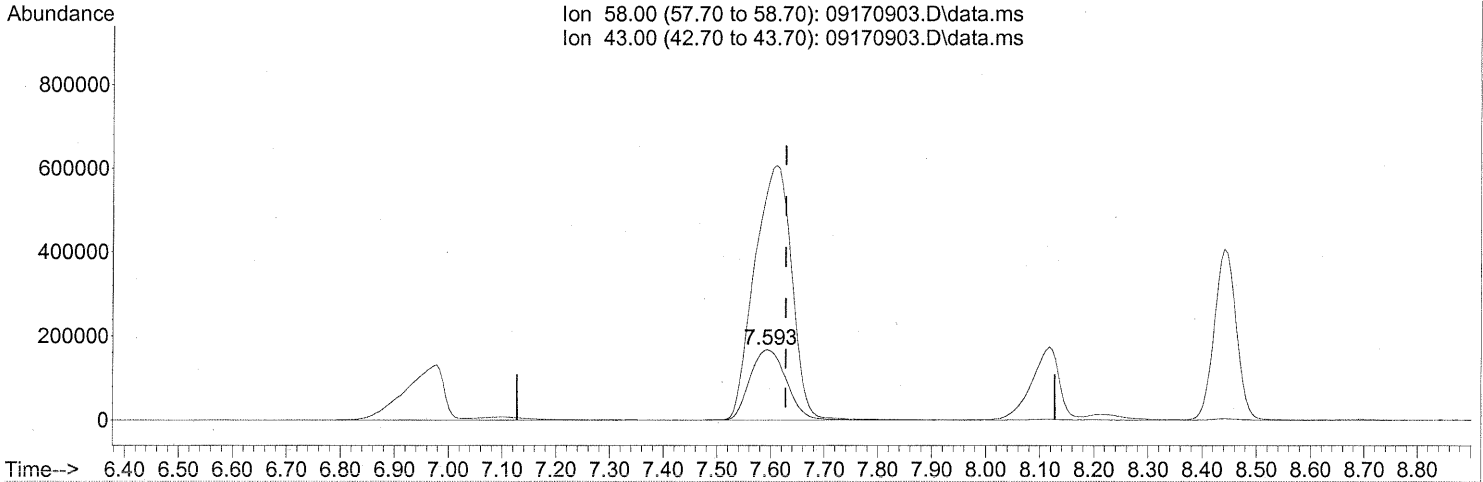
response 31099

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	70.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.593min (-0.034) 79.04ng *M*

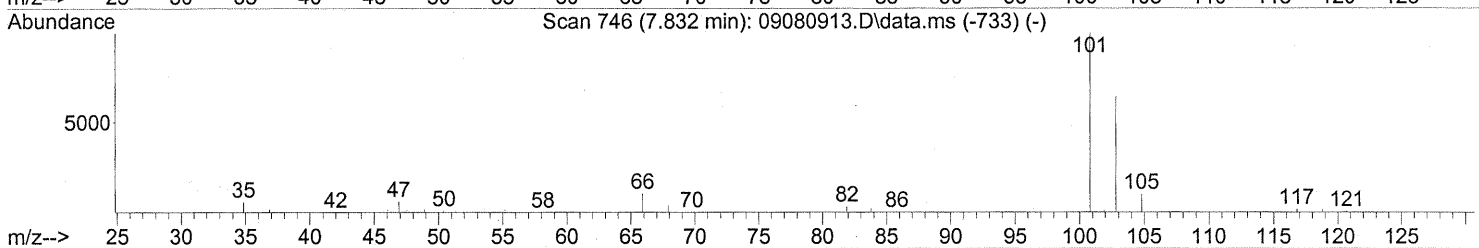
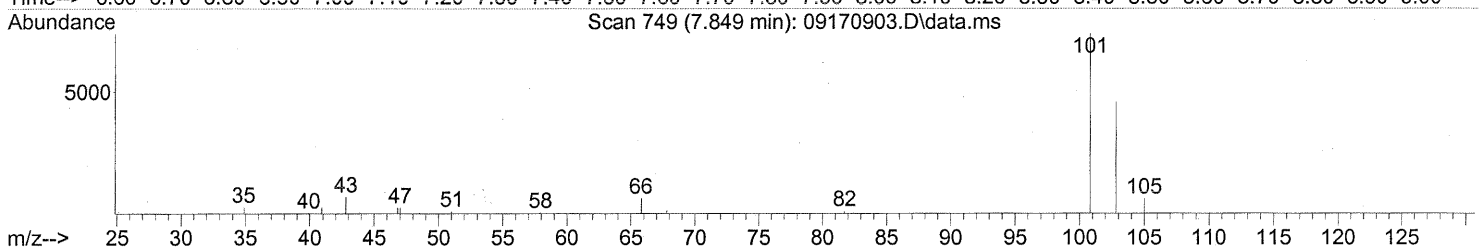
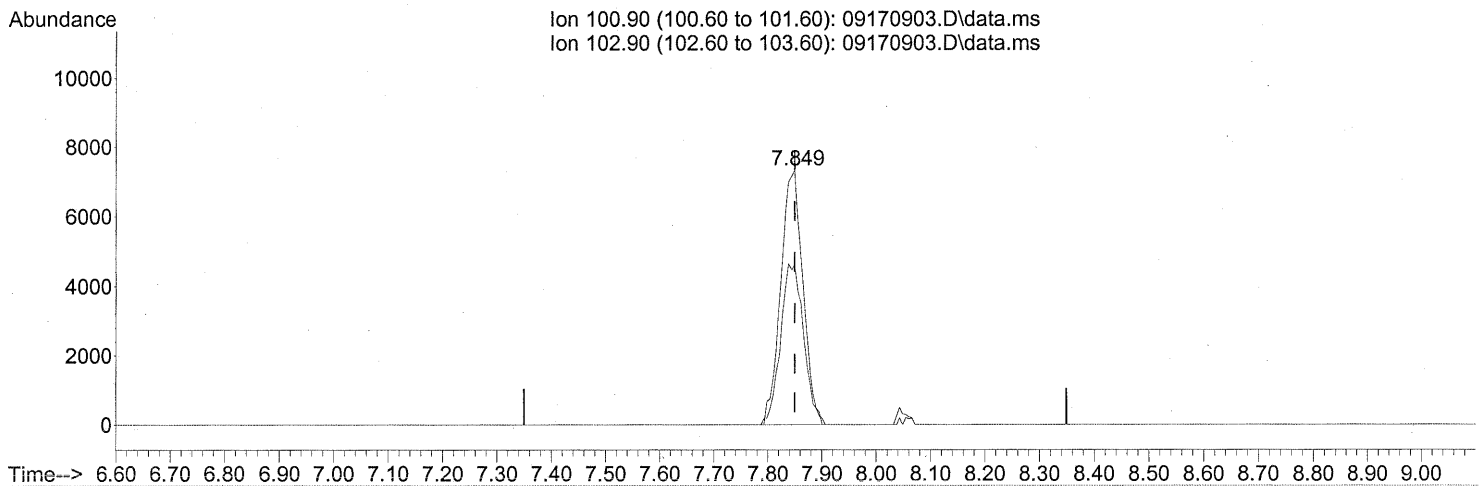
response 790180

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	369.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(14) Trichlorofluoromethane (T)

7.849min (-0.000) 0.86ng

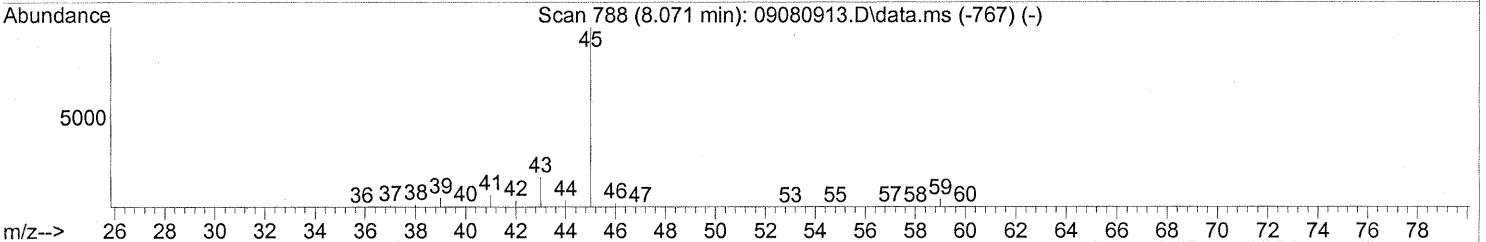
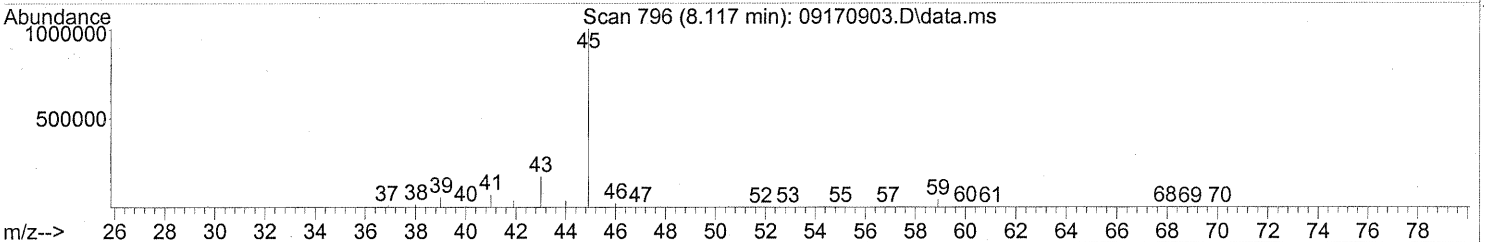
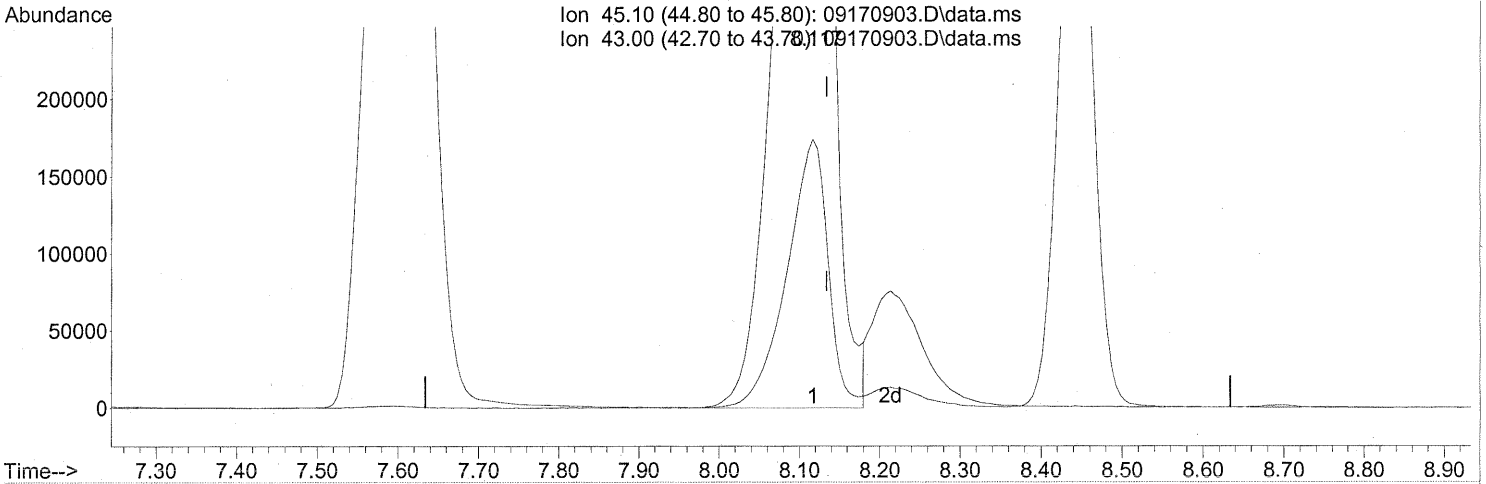
response 20925

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	65.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.117min (-0.017) 104.29ng

response 3590956

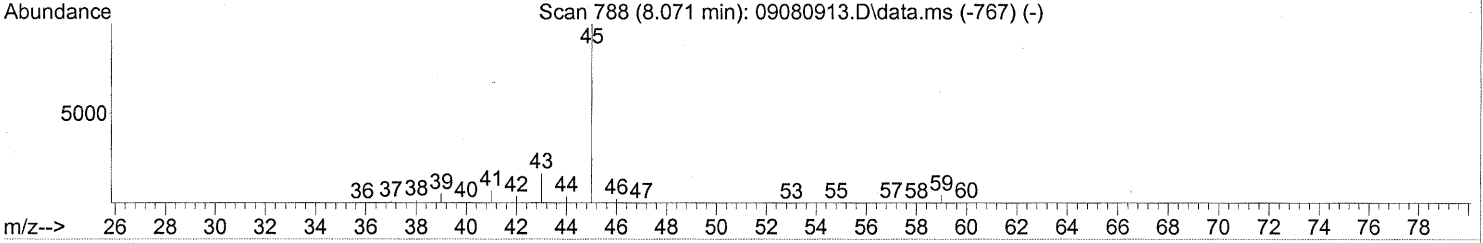
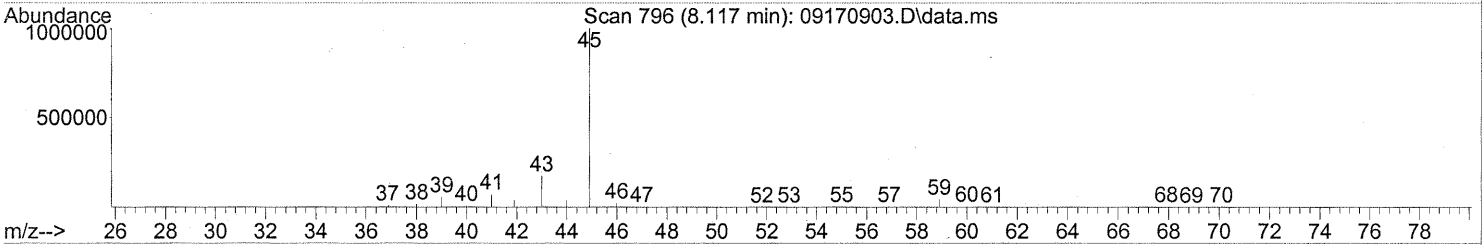
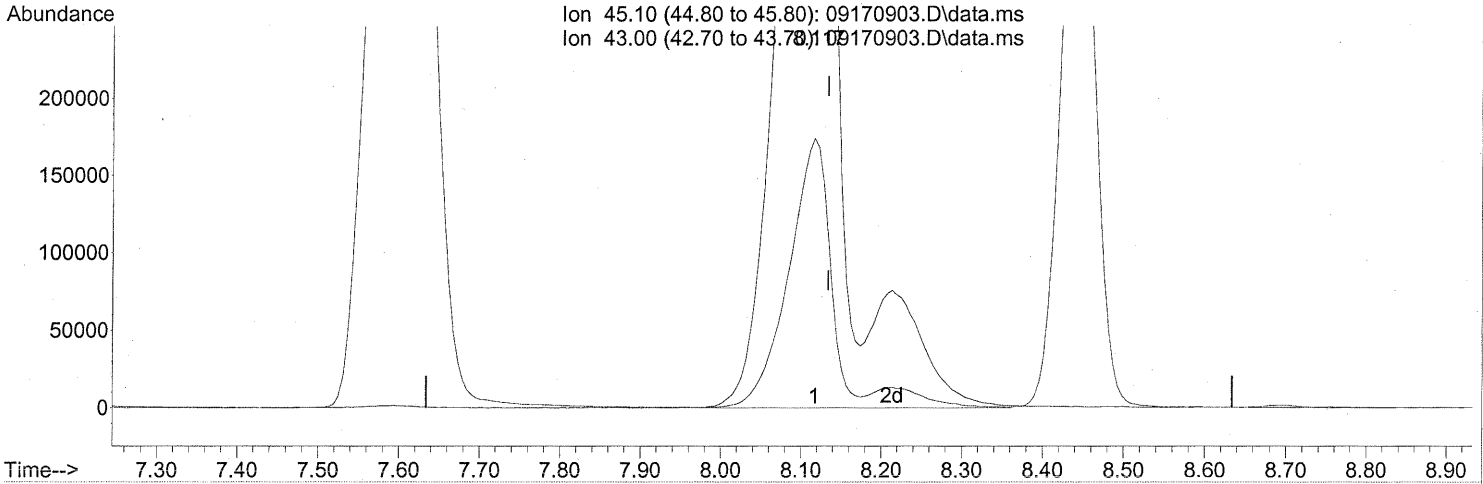
SP

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.117min (-0.017) 113.99ng m

response 3924837

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.73
0.00	0.00	0.00
0.00	0.00	0.00

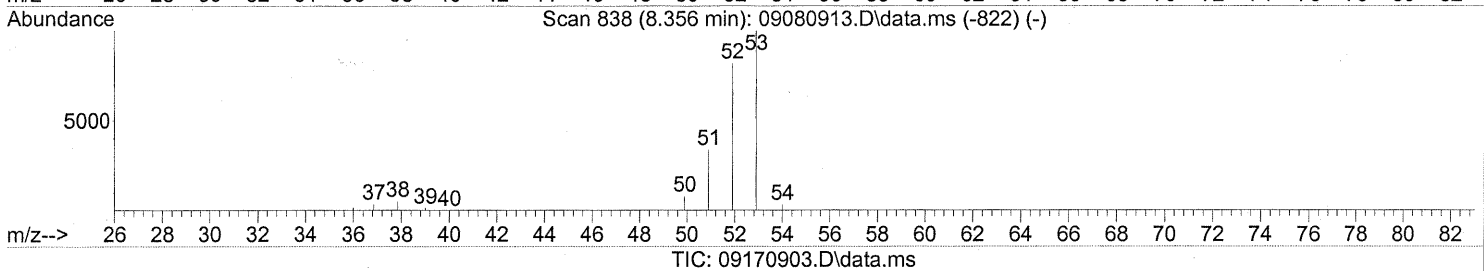
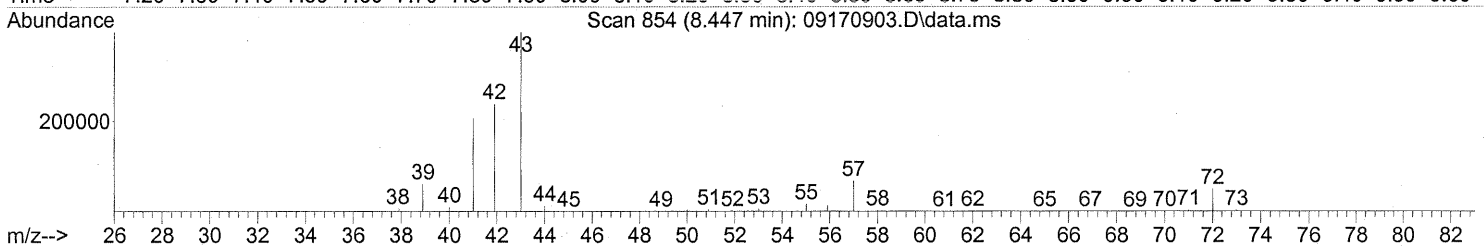
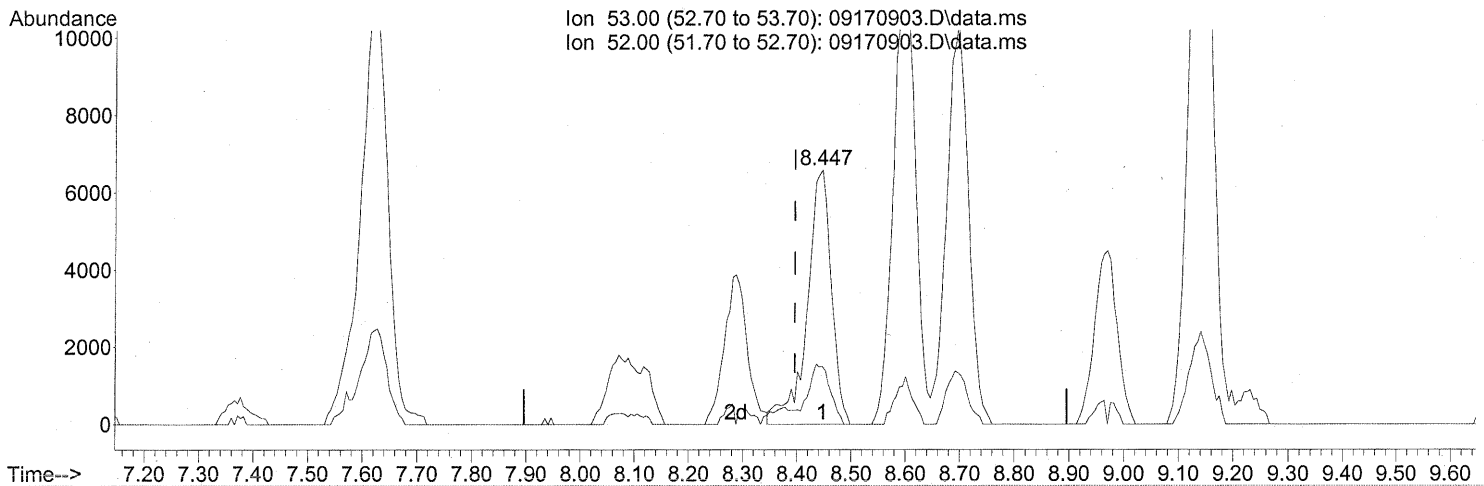
*SP → IC
 LH 9/21/09*

Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.447min (+0.051) 1.06ng
 response 20485

Ion	Exp%	Act%
53.00	100	100
52.00	84.30	20.54#
0.00	0.00	0.00
0.00	0.00	0.00

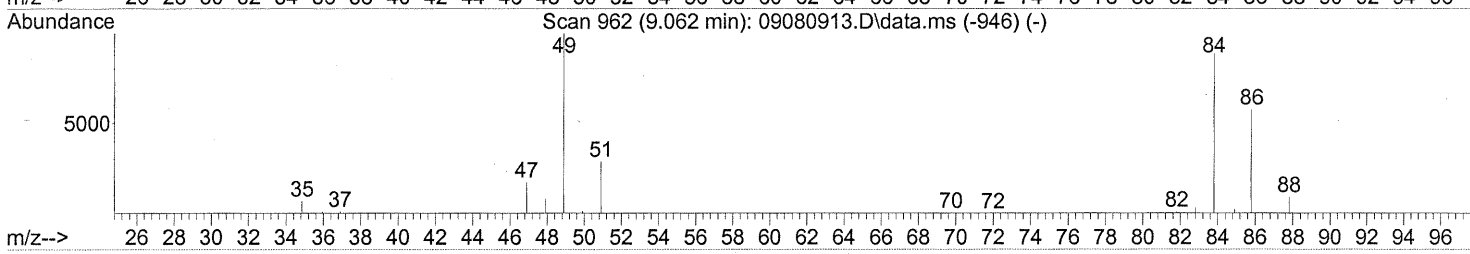
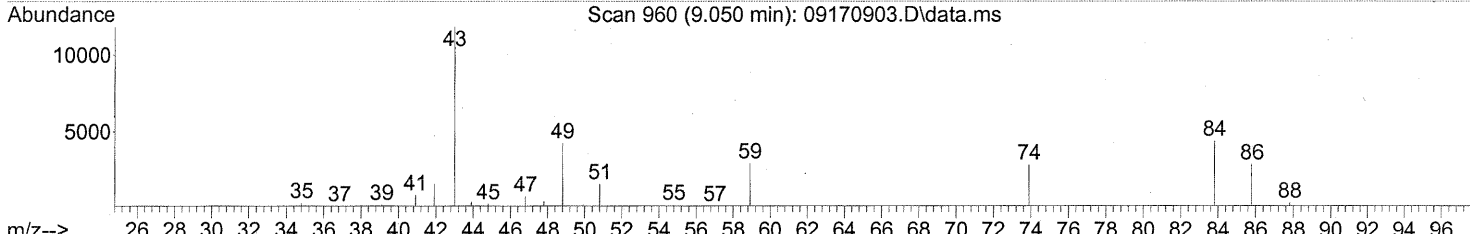
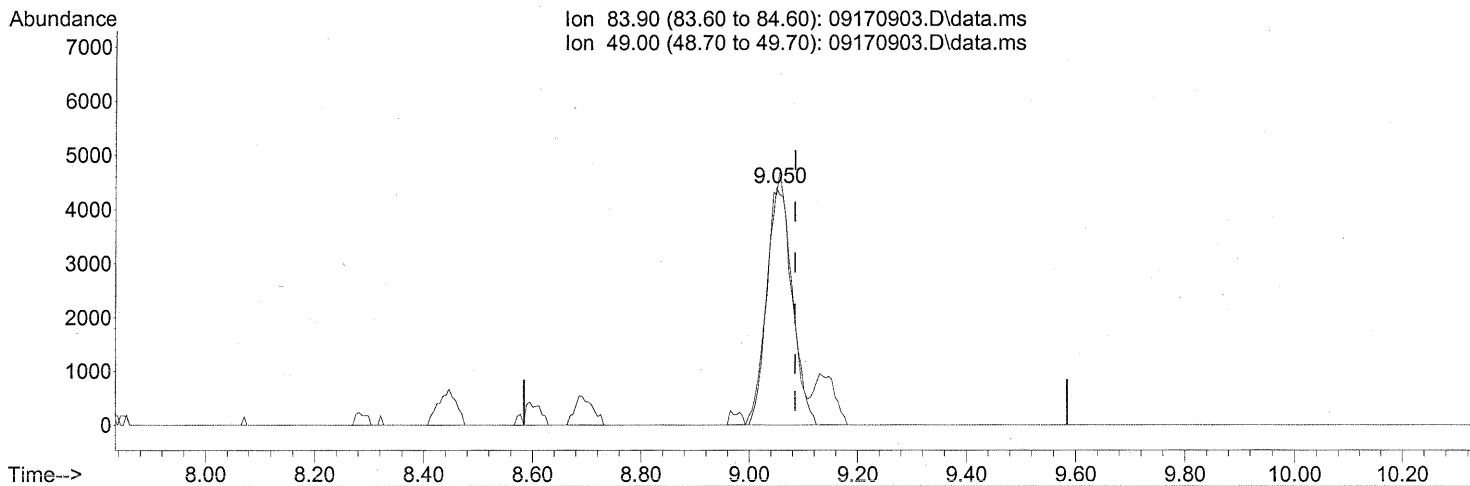
FP in 9/21/09

can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.050min (-0.034) 0.93ng

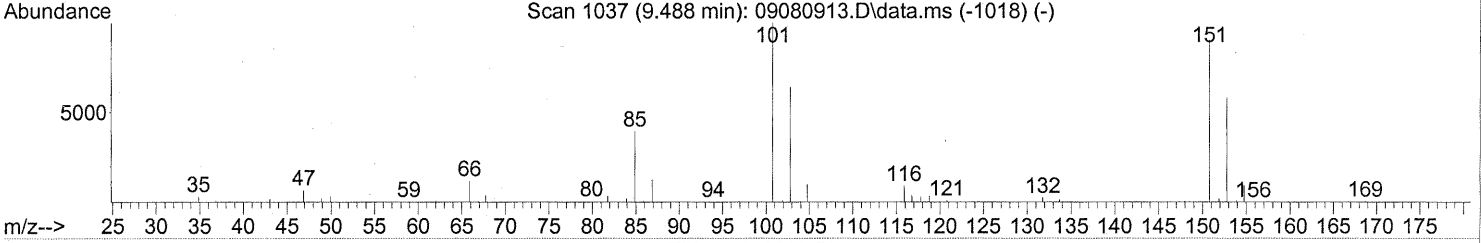
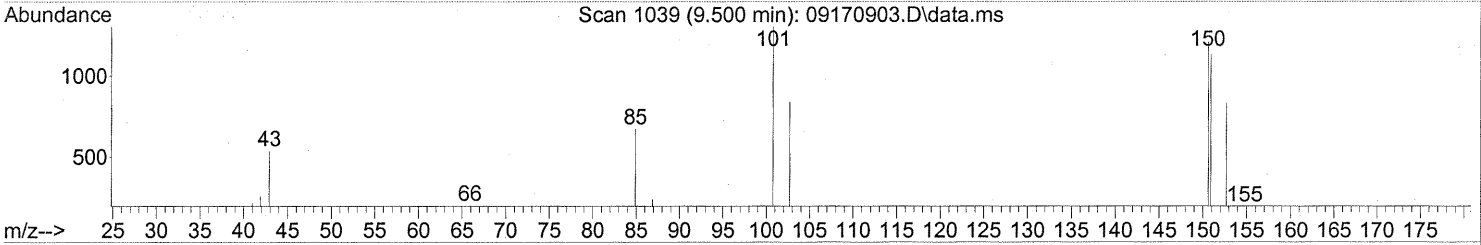
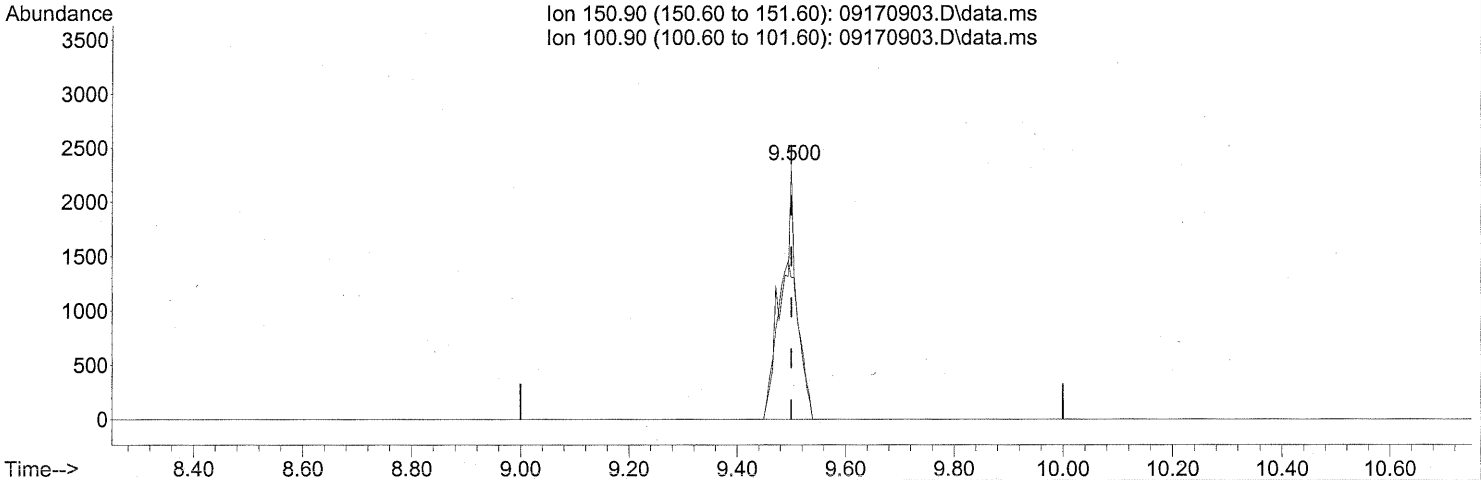
response 14214

Ion	Exp%	Act%
83.90	100	100
49.00	133.30	106.84#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.500min (-0.000) 0.37ng

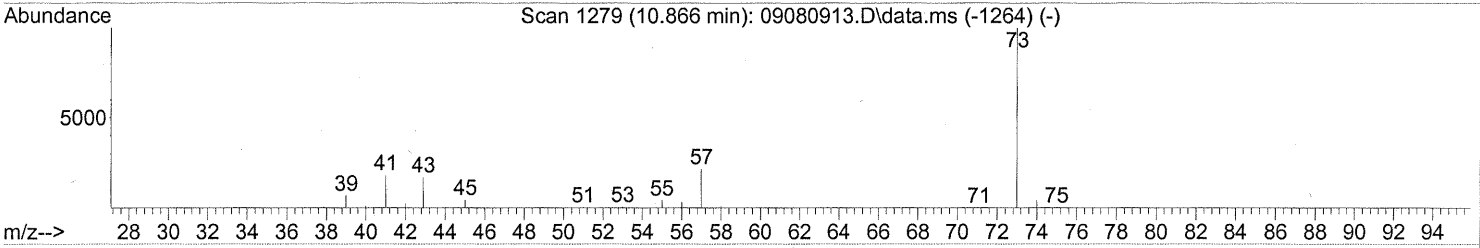
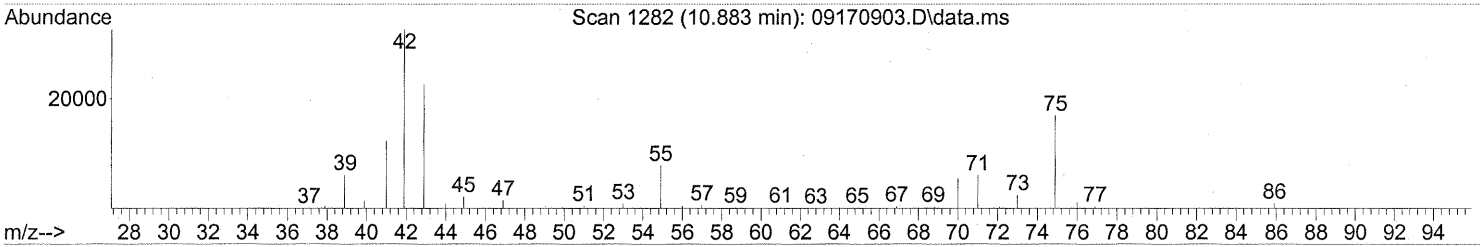
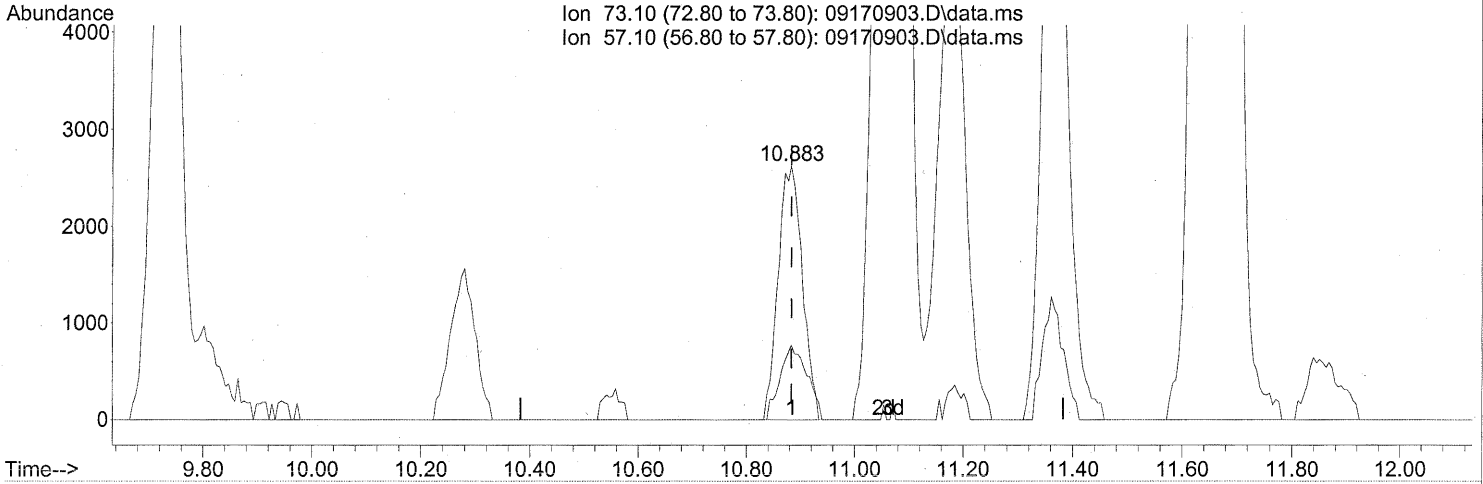
response 4475

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	94.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 17 09:12:24 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

10.883min (-0.000) 0.21ng

response 8132

Ion	Exp%	Act%
73.10	100	100
57.10	22.60	32.80
0.00	0.00	0.00
0.00	0.00	0.00

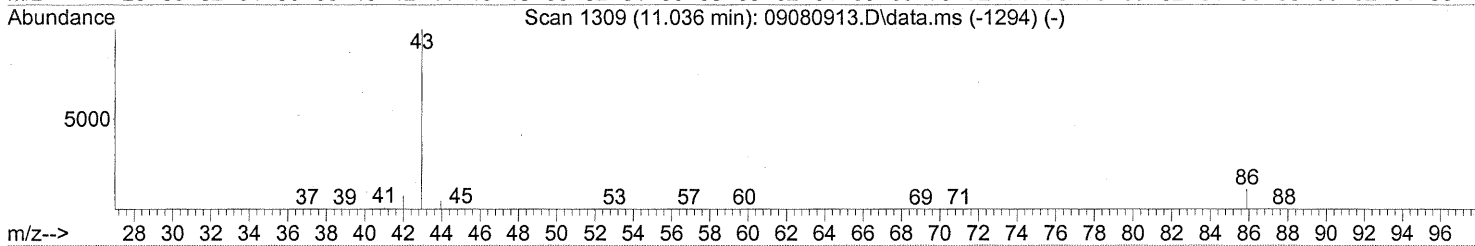
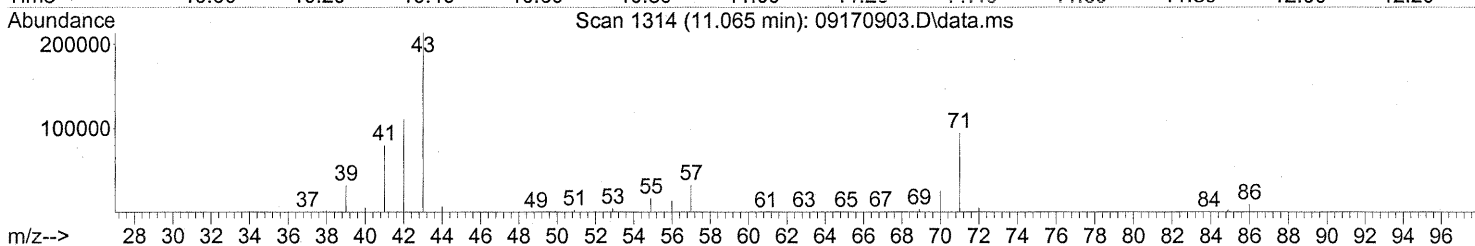
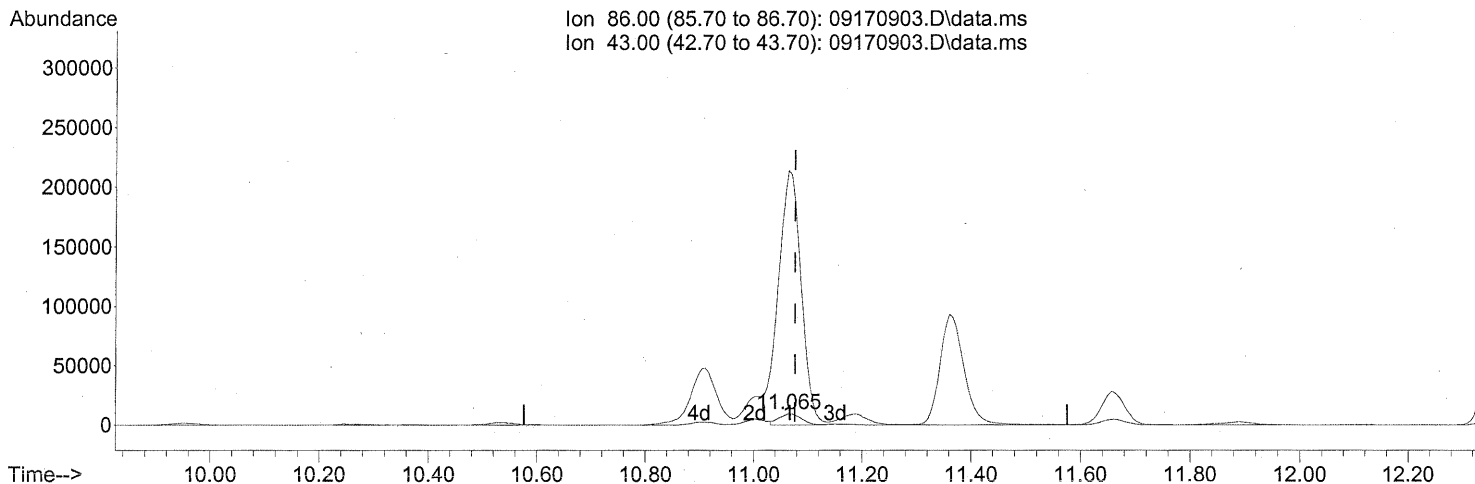
FP LH 9/21/09

Scan 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.065min (-0.011) 8.97ng
 response 26996

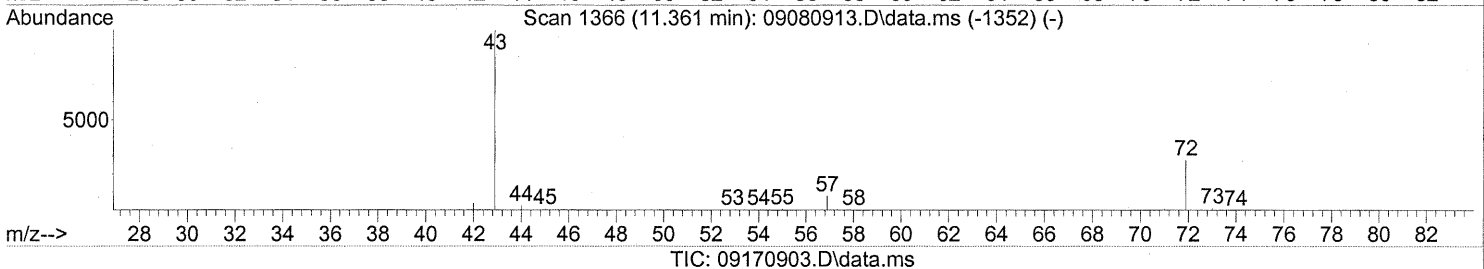
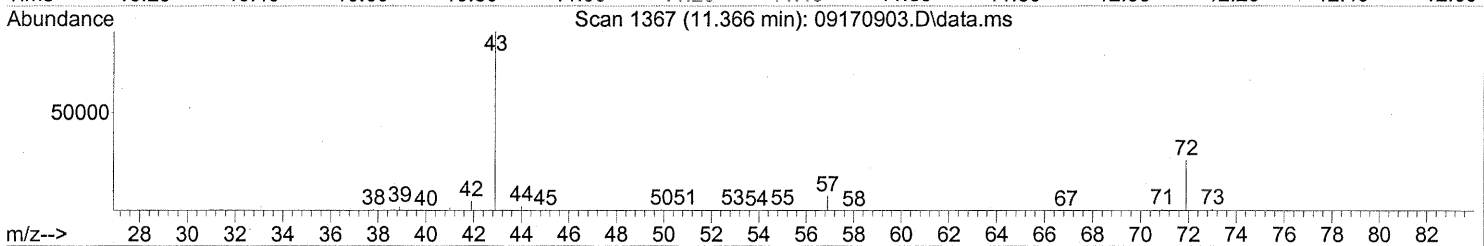
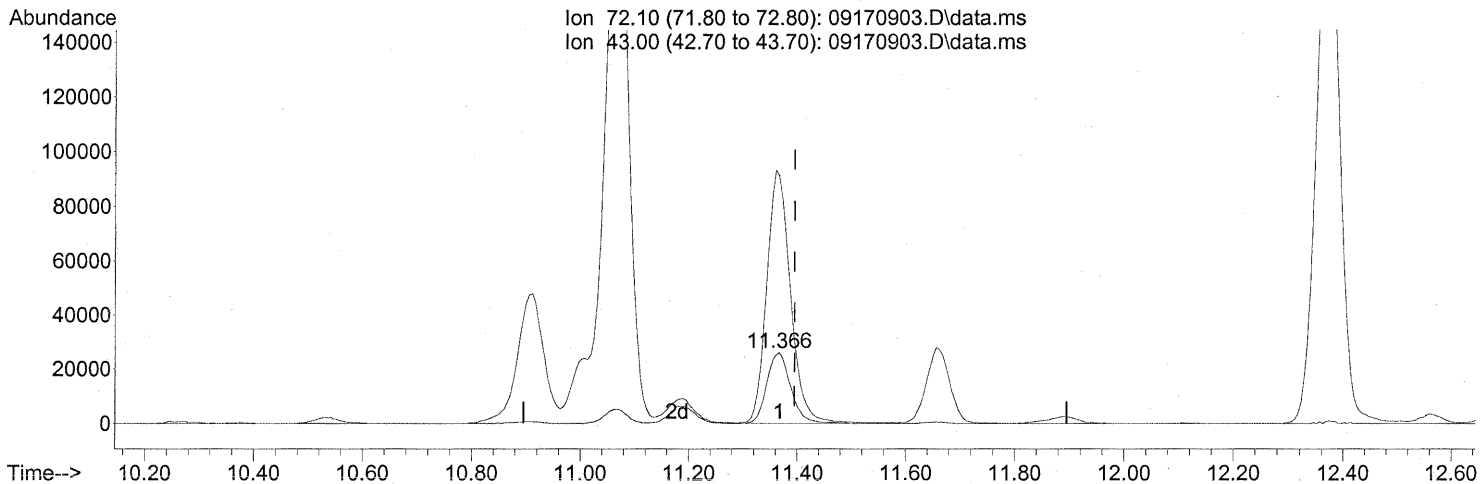
Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	2534.92#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/21/09
com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.366min (-0.029) 8.28ng

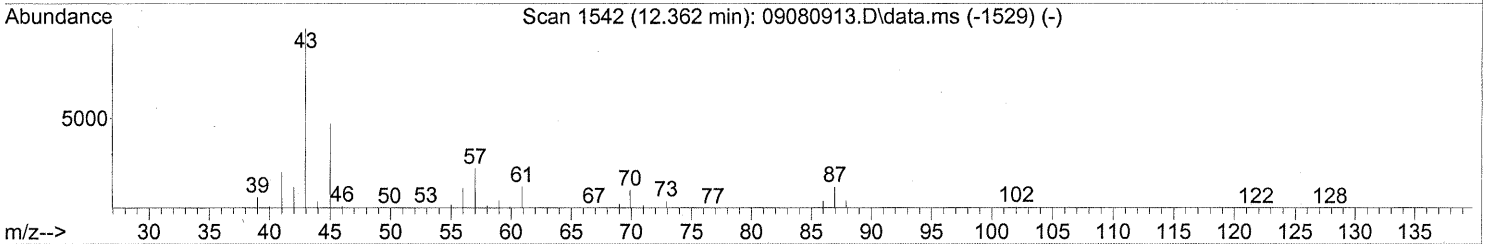
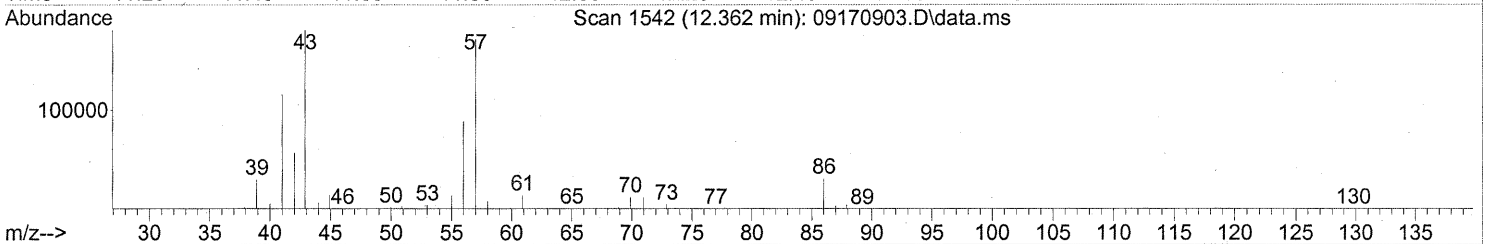
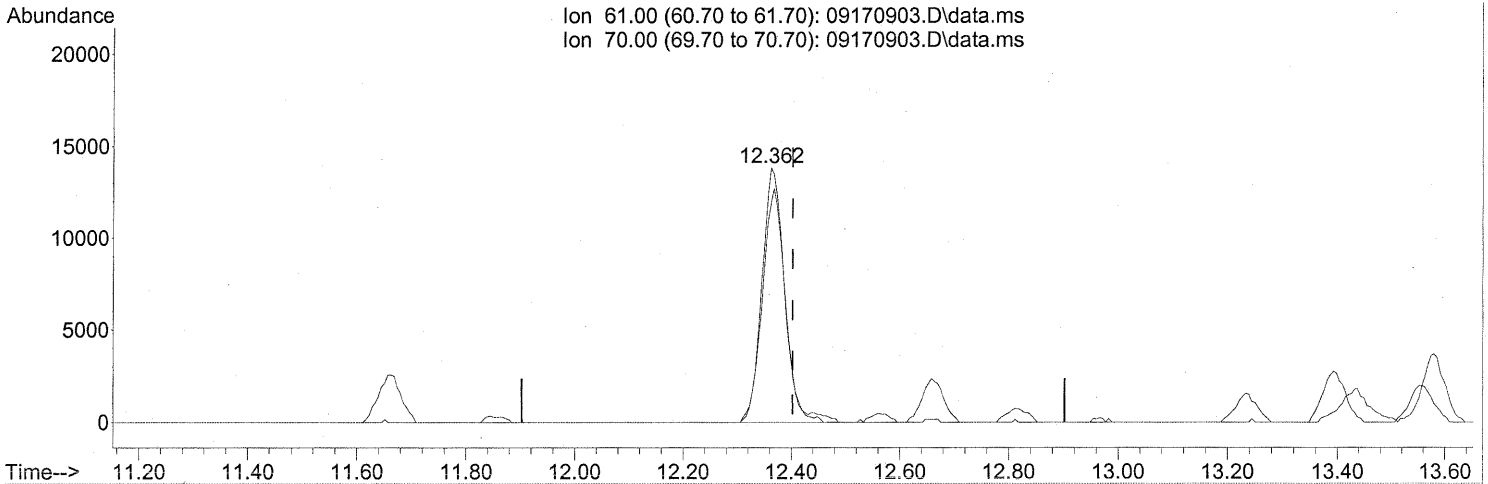
response 79508

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	354.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

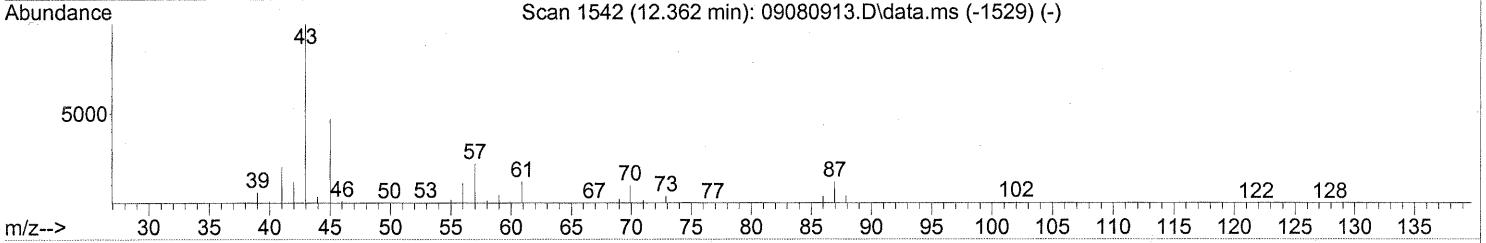
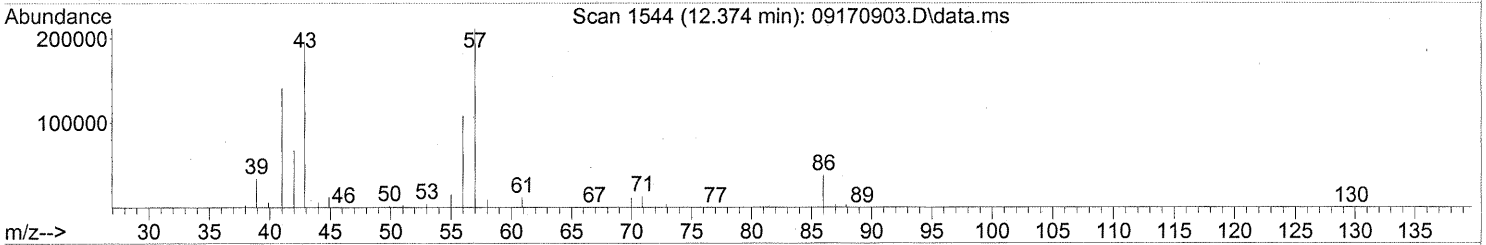
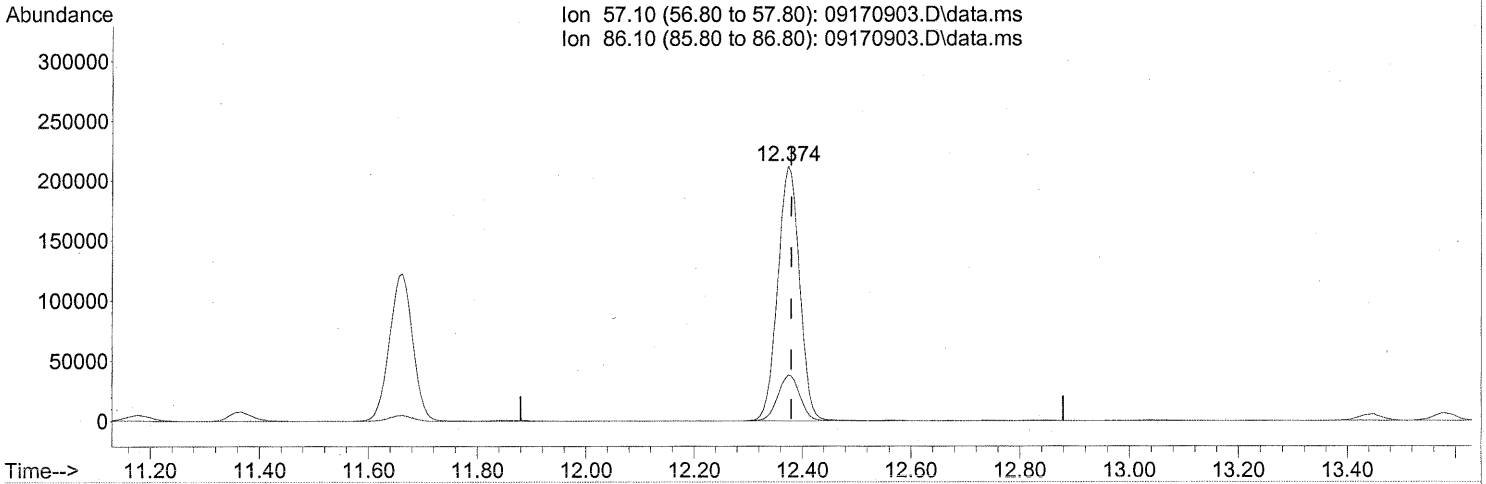
(30) Ethyl Acetate (T)
 12.362min (-0.040) 8.13ng
 response 39643

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	95.99#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

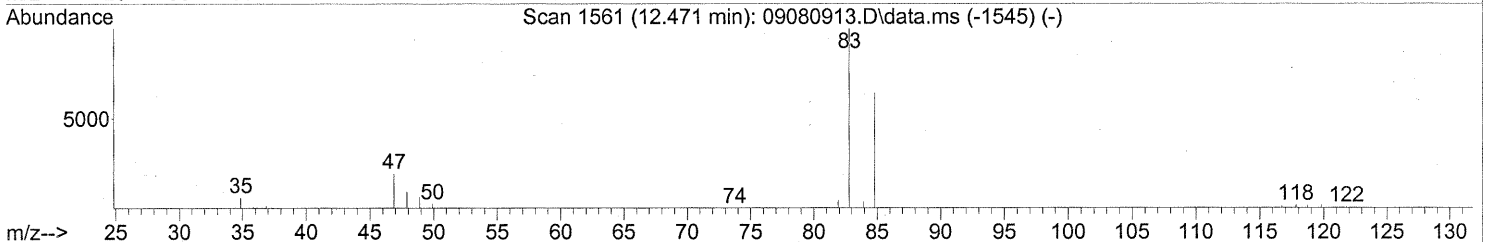
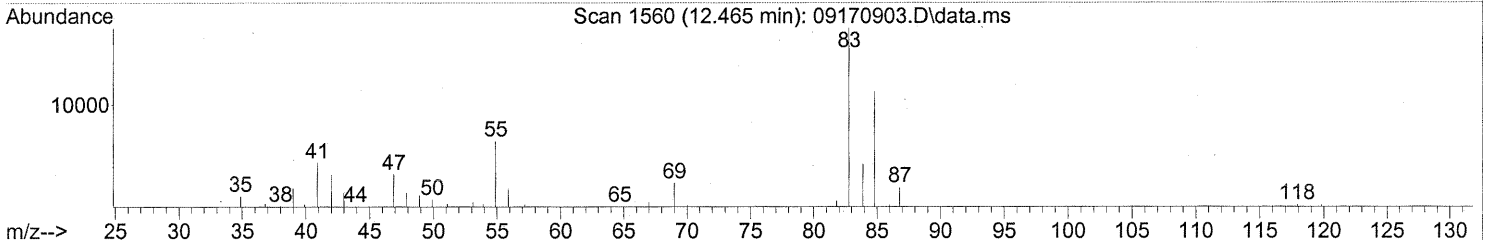
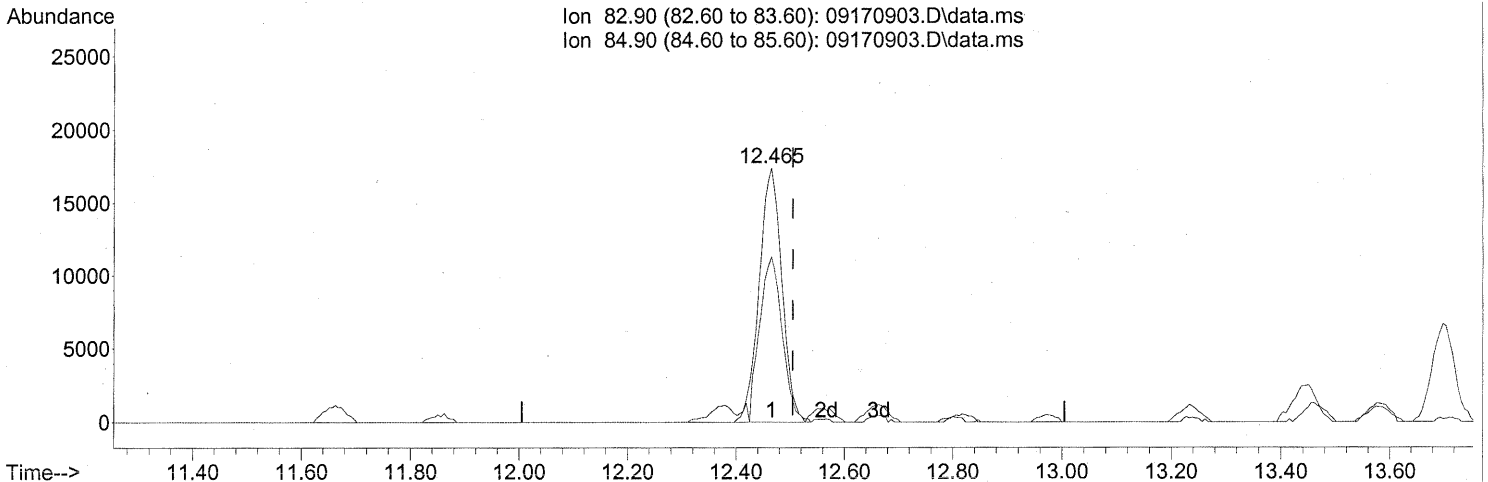
(31) n-Hexane (T)
 12.374min (-0.006) 30.89ng
 response 596468

Ion	Exp%	Act%
57.10	100	100
86.10	15.20	18.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(32) Chloroform (T)

12.465min (-0.040) 2.14ng

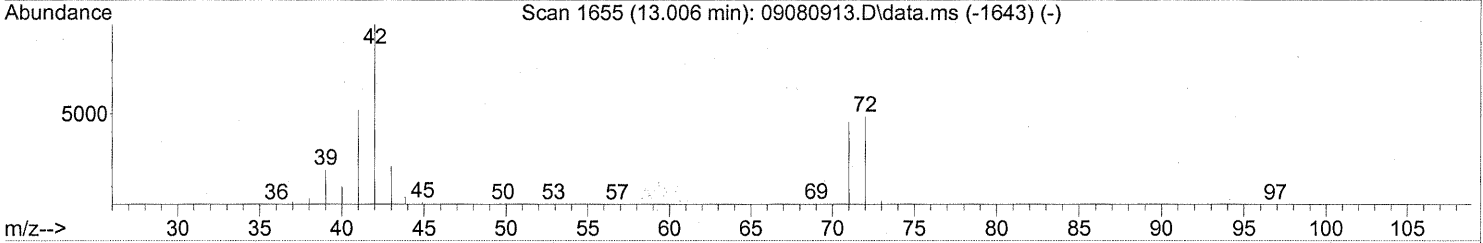
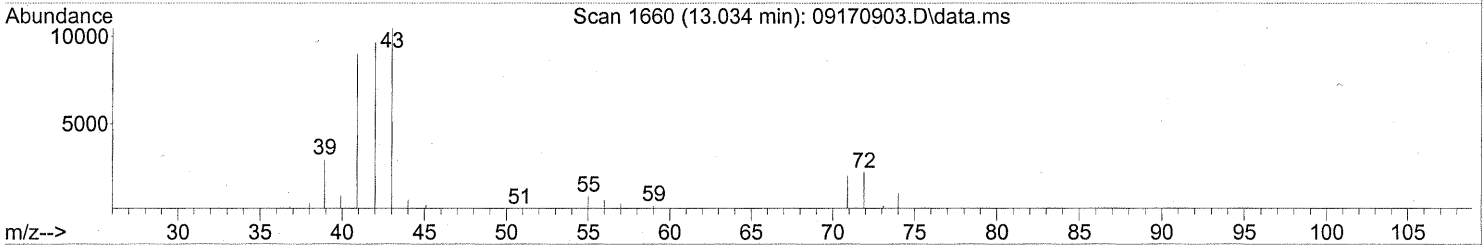
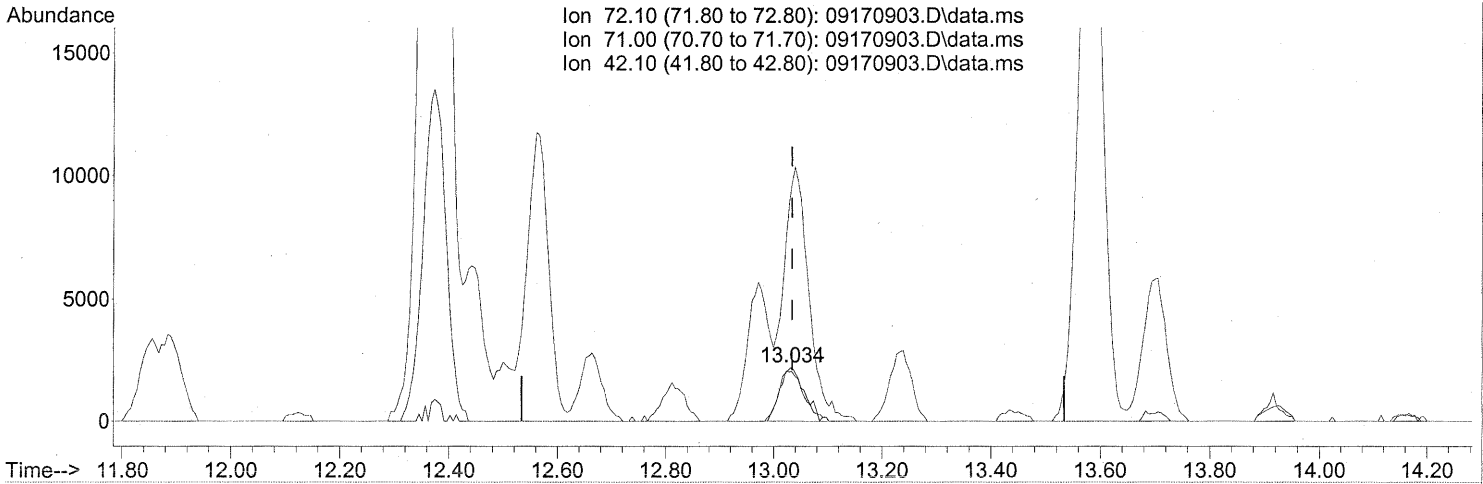
response 50733

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170903.D
Acq On : 17 Sep 2009 8:41
Operator : LH
Sample : P0903145-009 (700mL)
Misc : Environmental H & E 102718
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170903.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.034min (-0.000) 0.80ng

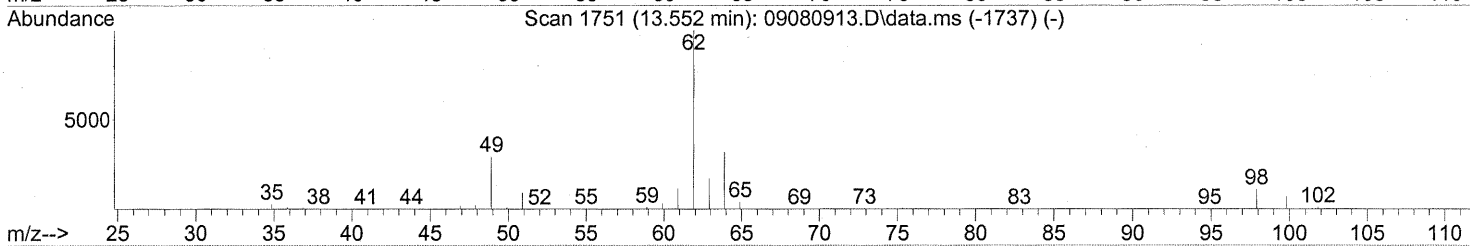
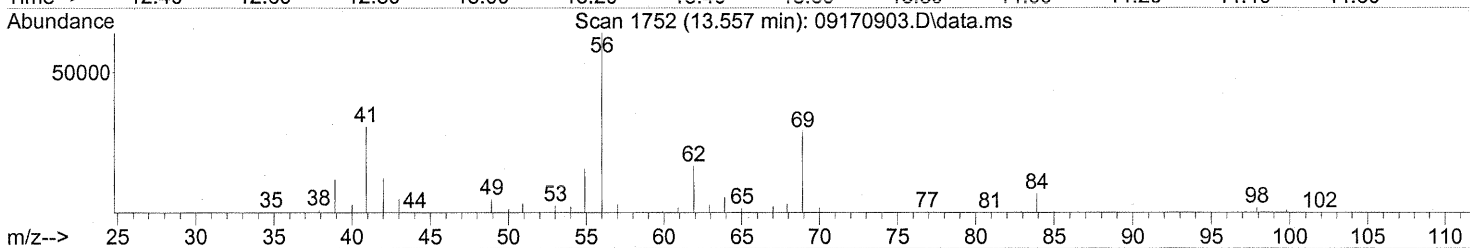
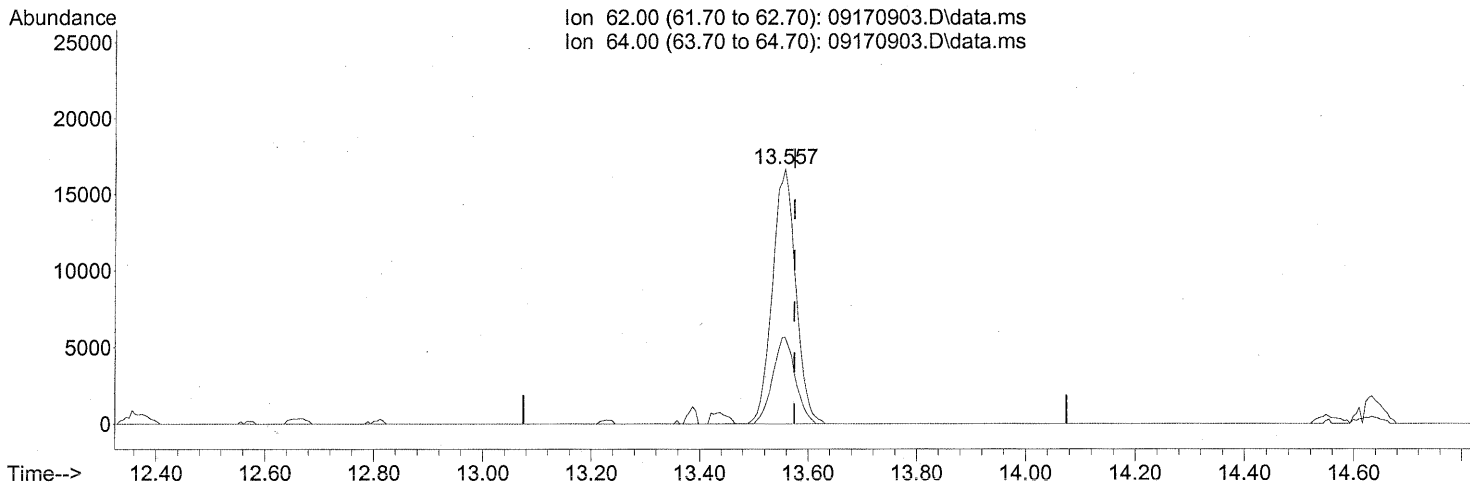
response 7079

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	93.26
42.10	240.00	472.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(36) 1,2-Dichloroethane (T)

13.557min (-0.017) 3.04ng

response 49712

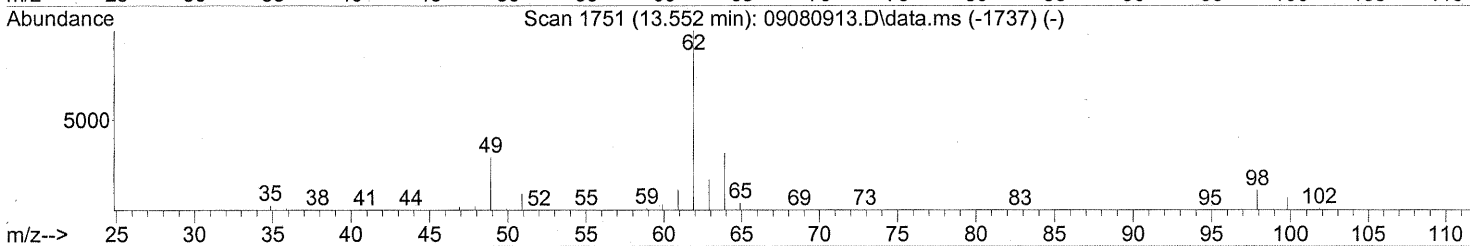
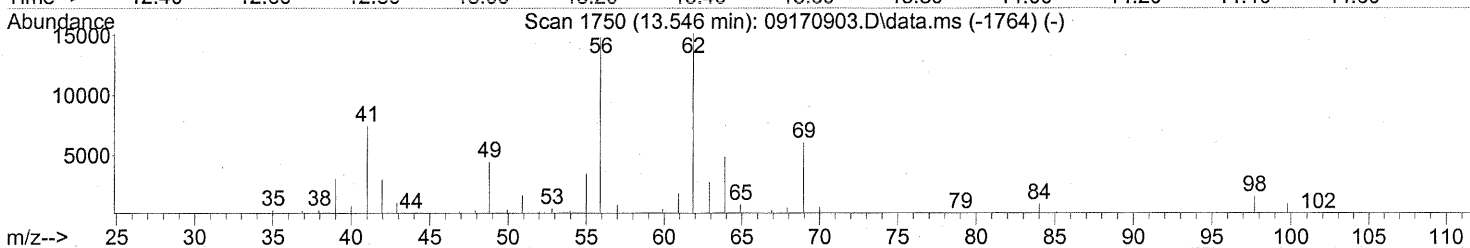
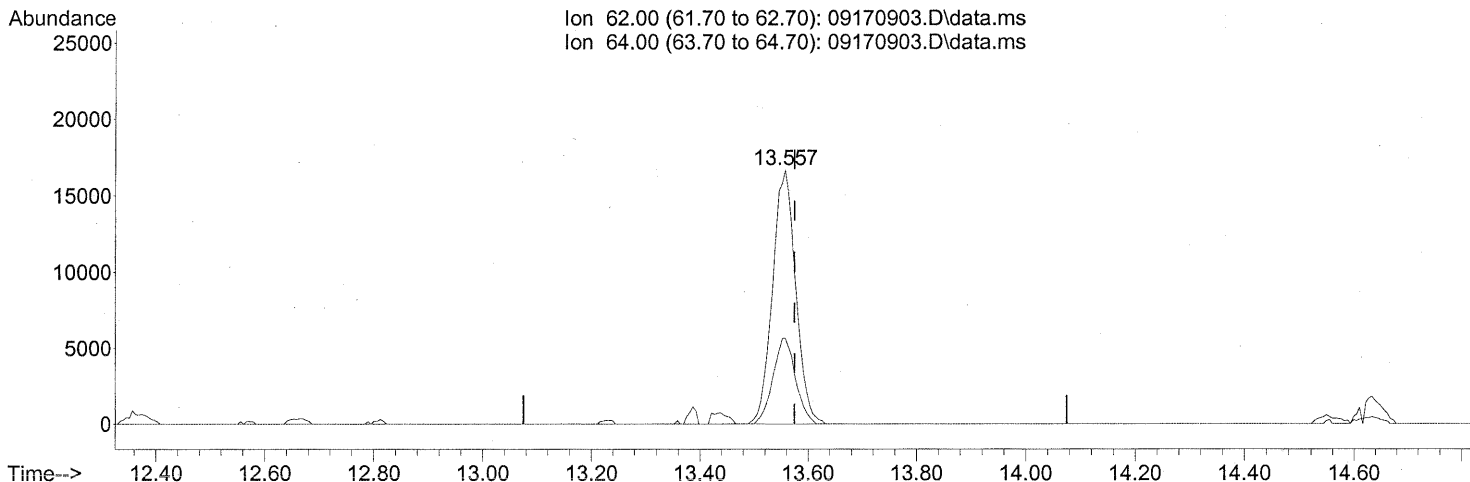
Before subtraction

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(36) 1,2-Dichloroethane (T)

13.557min (-0.017) 3.04ng

response 49712

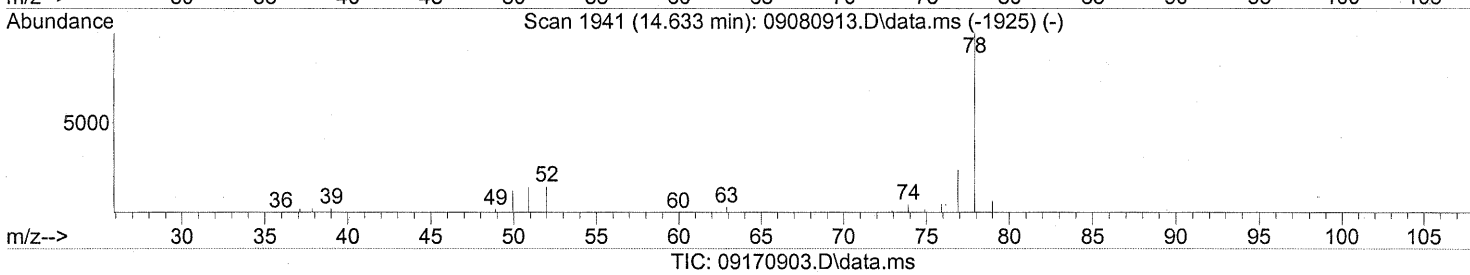
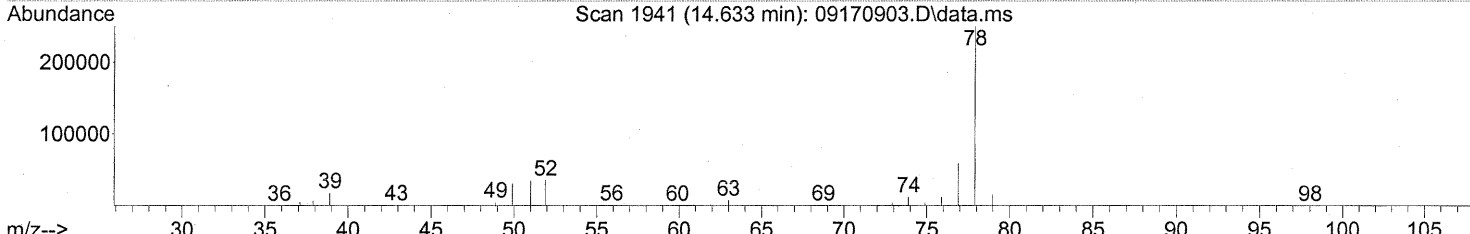
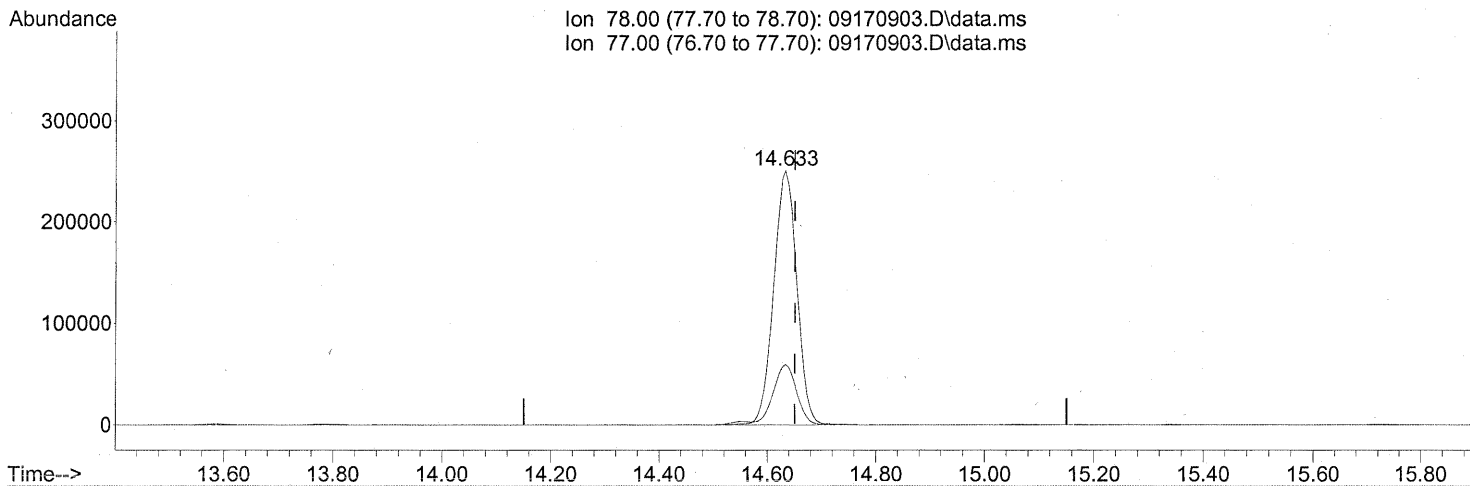
Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.93
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



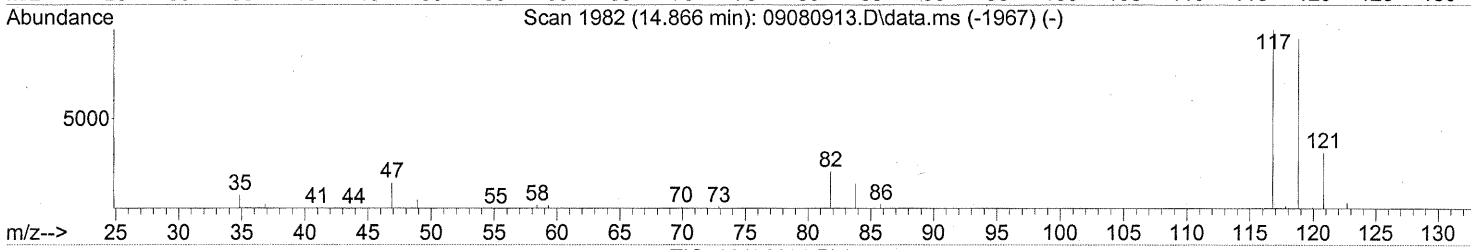
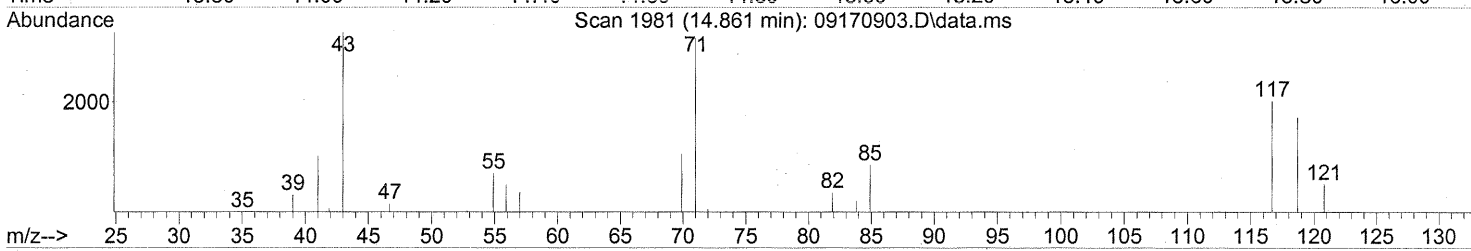
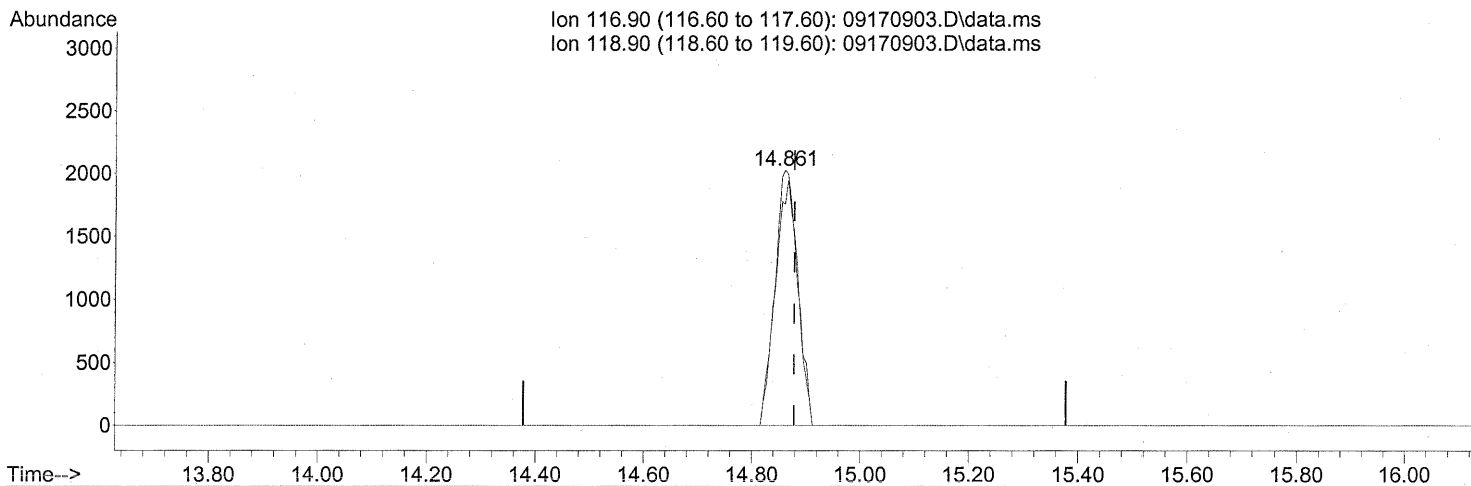
(41) Benzene (T)
 14.633min (-0.017) 12.90ng
 response 744836

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.34ng

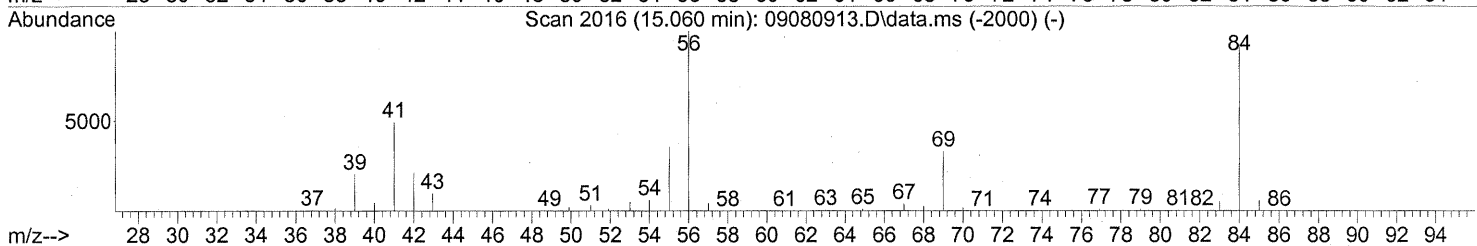
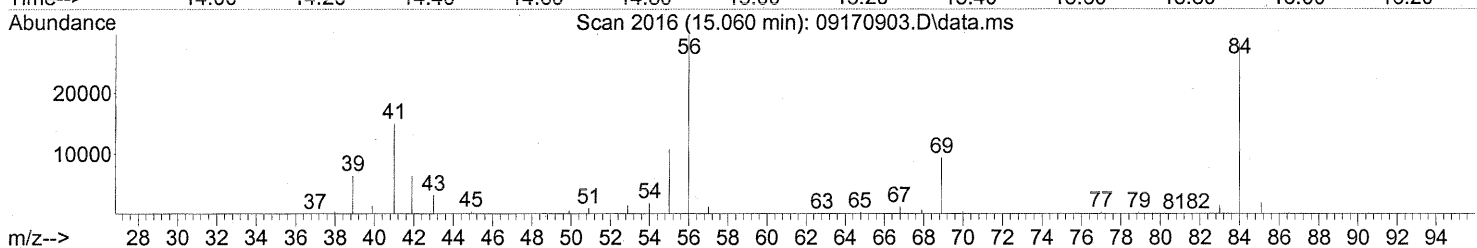
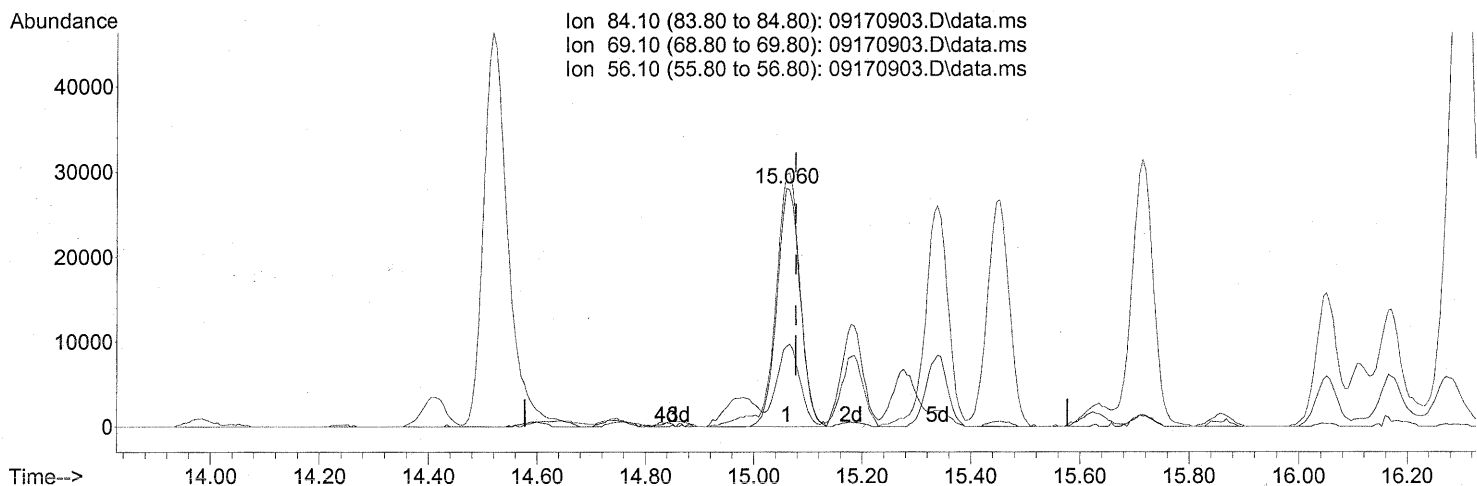
response 5936

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	94.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(43) Cyclohexane (T)

15.060min (-0.017) 3.95ng

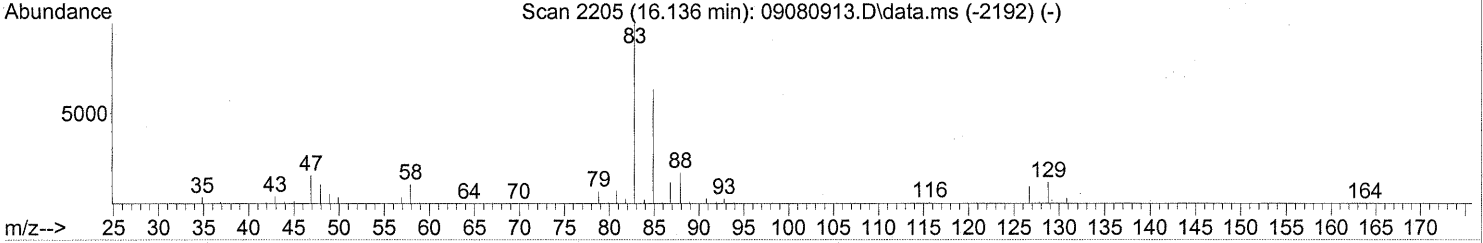
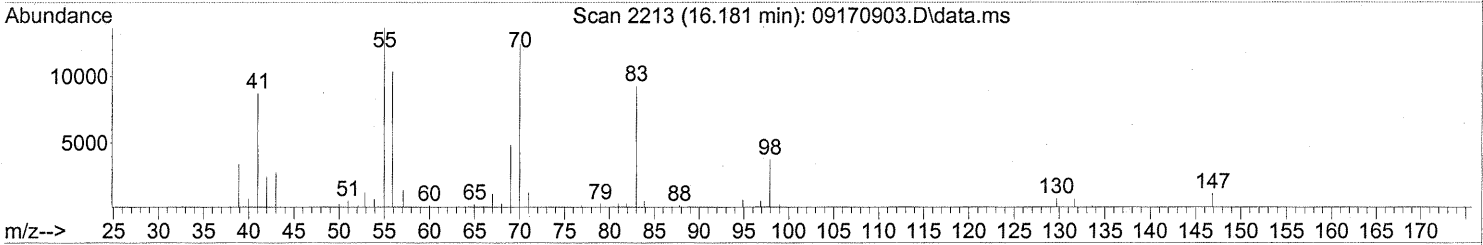
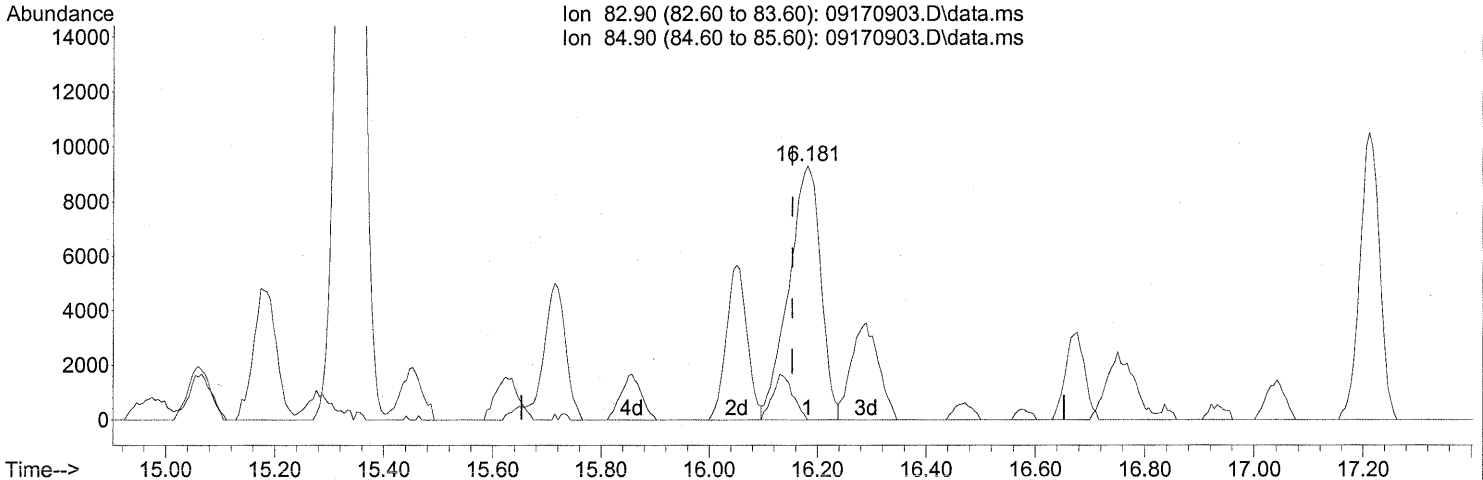
response 83266

Ion	Exp%	Act%
84.10	100	100
69.10	37.70	34.72
56.10	124.60	113.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.181min (+0.028) 2.14ng

response 38322

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

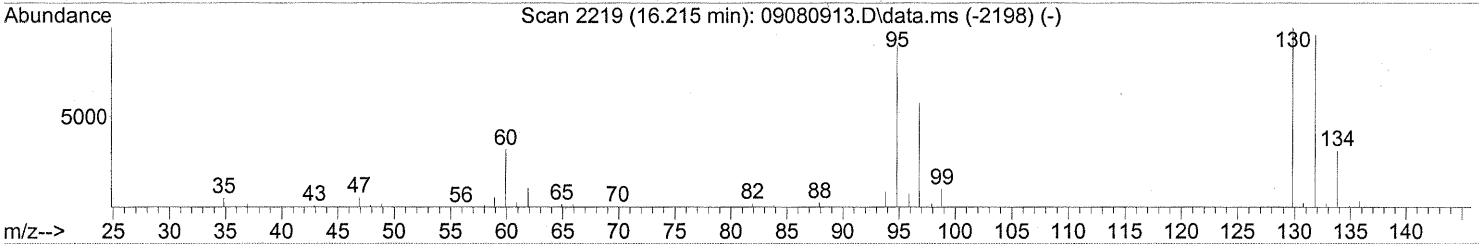
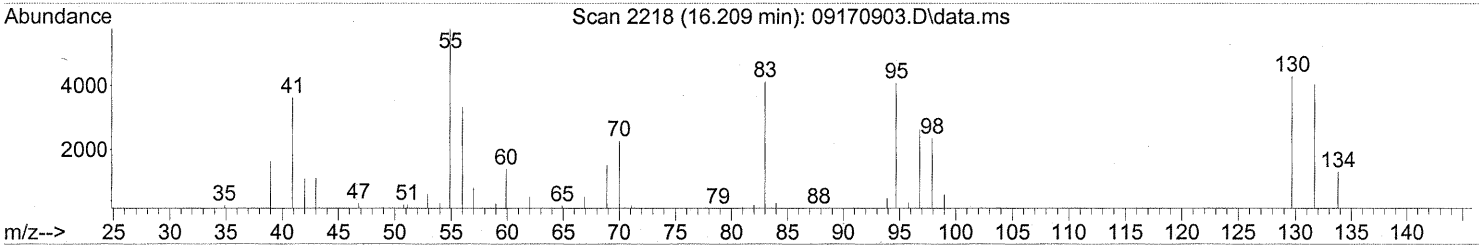
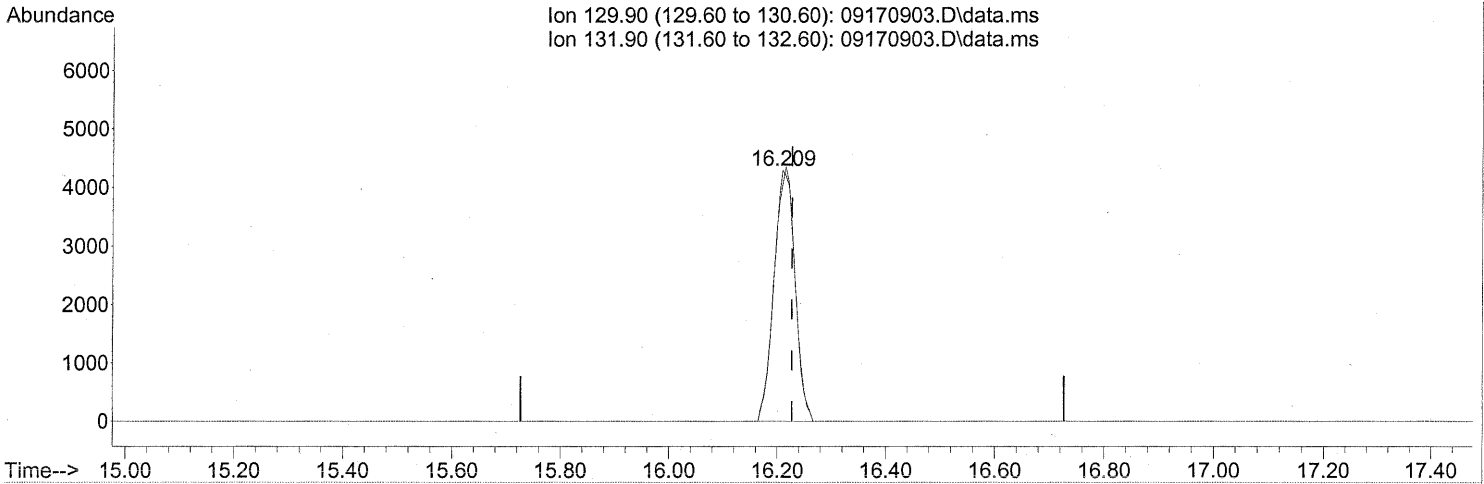
FP in 9/21/09

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(47) Trichloroethene (T)

16.209min (-0.017) 0.67ng

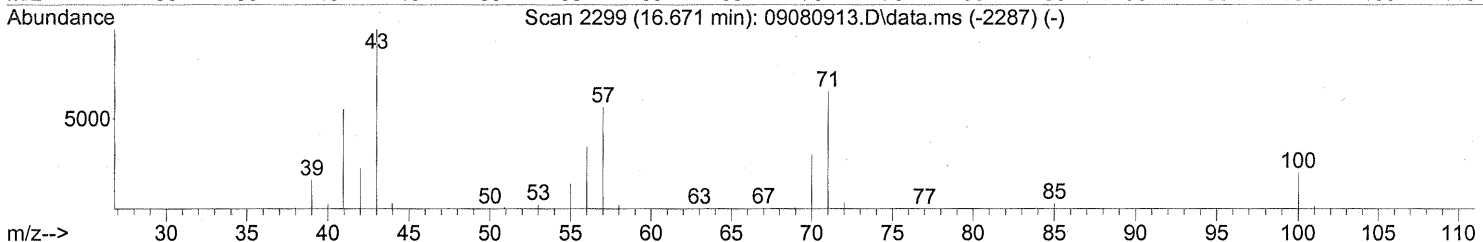
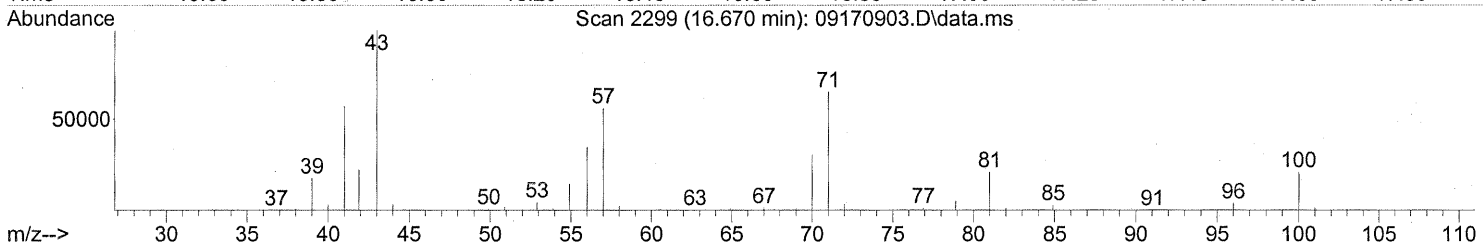
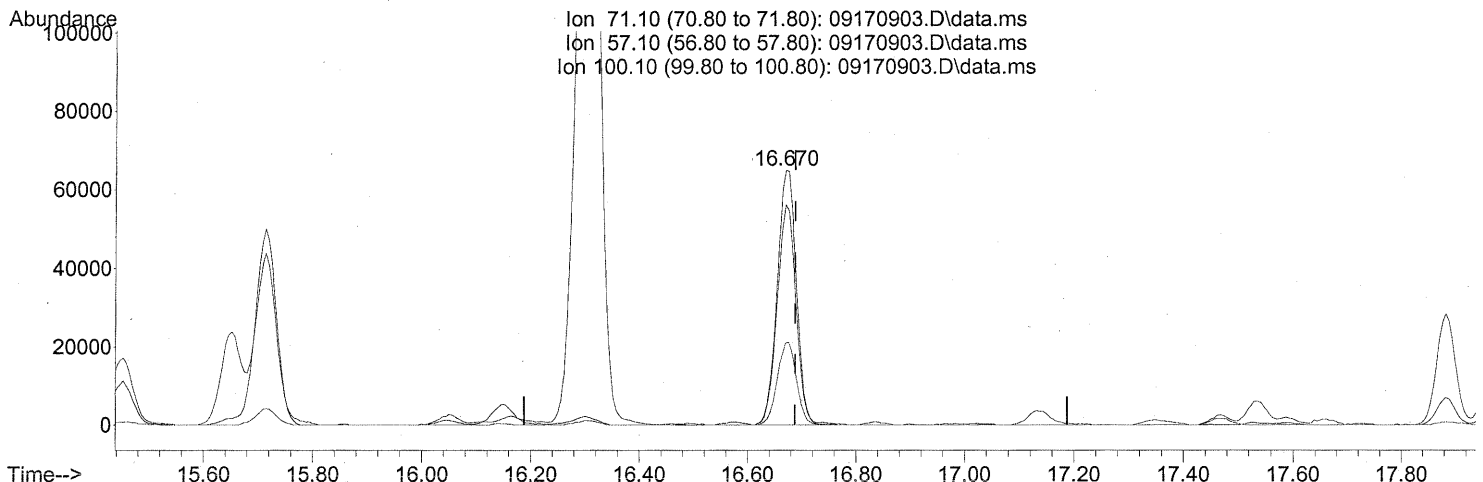
response 11577

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	99.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

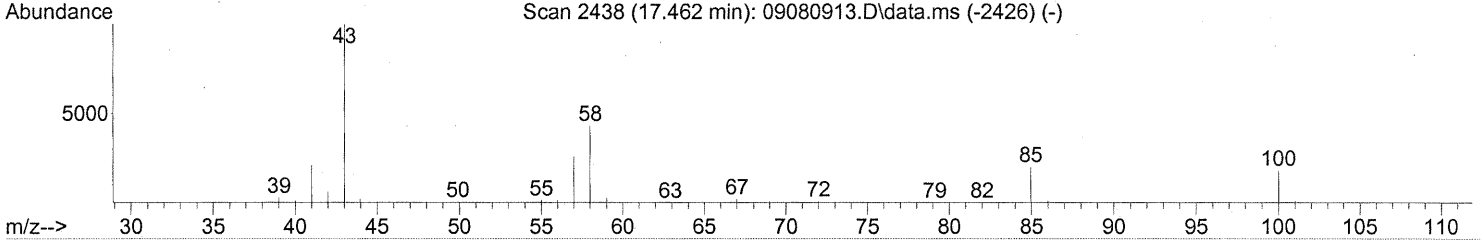
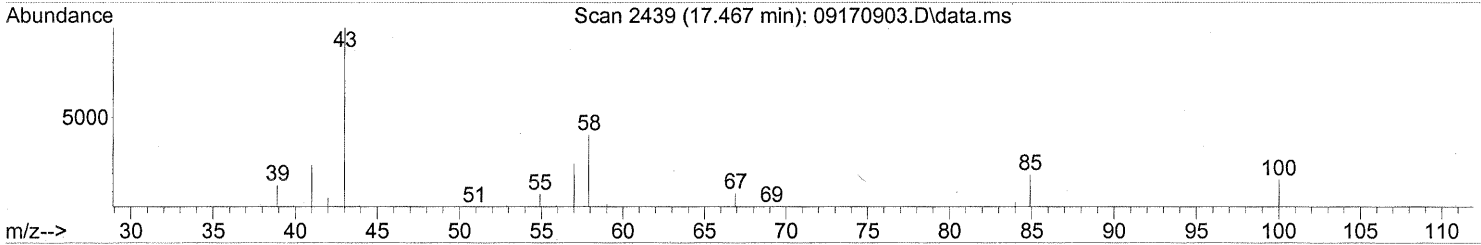
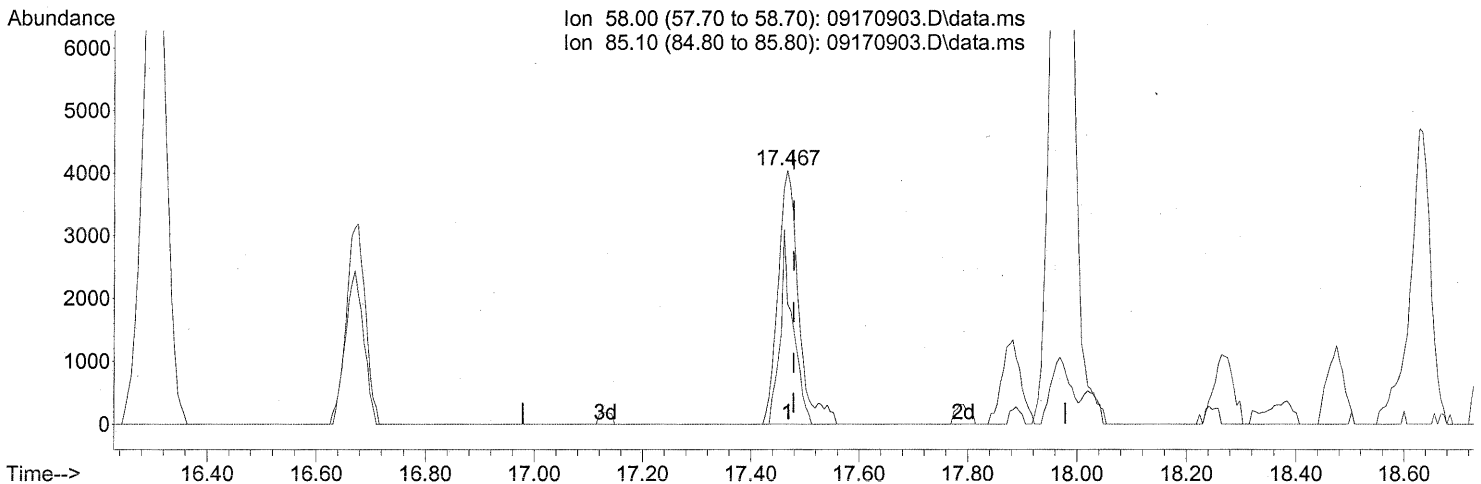
(51) n-Heptane (T)
 16.670min (-0.017) 10.84ng
 response 159753

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	85.77
100.10	26.80	32.43
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.467min (-0.011) 0.83ng

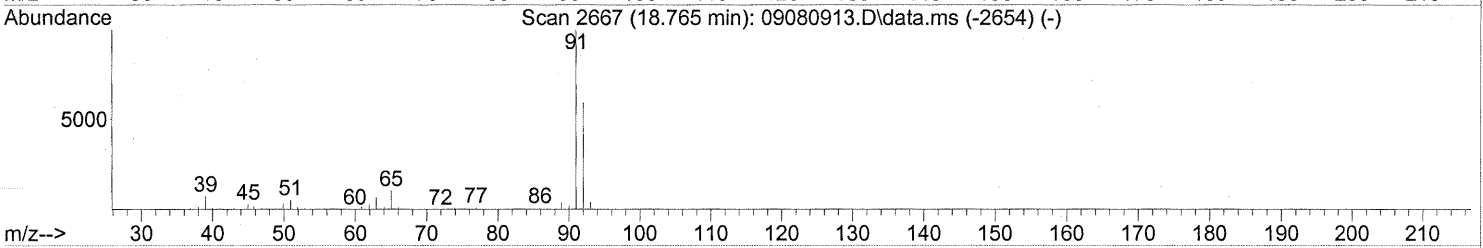
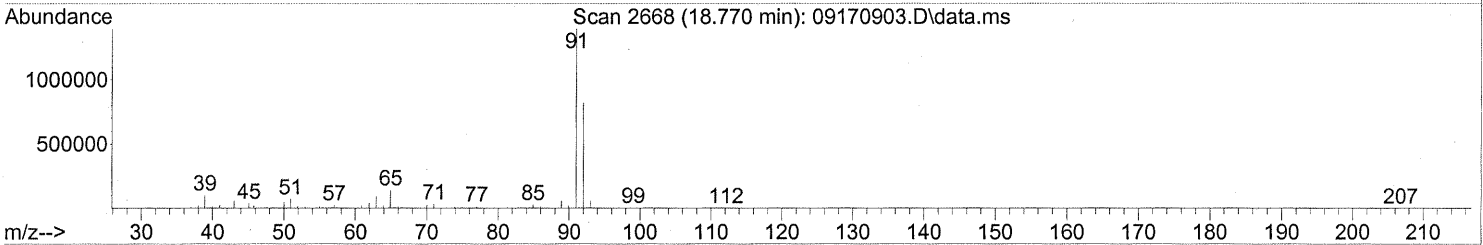
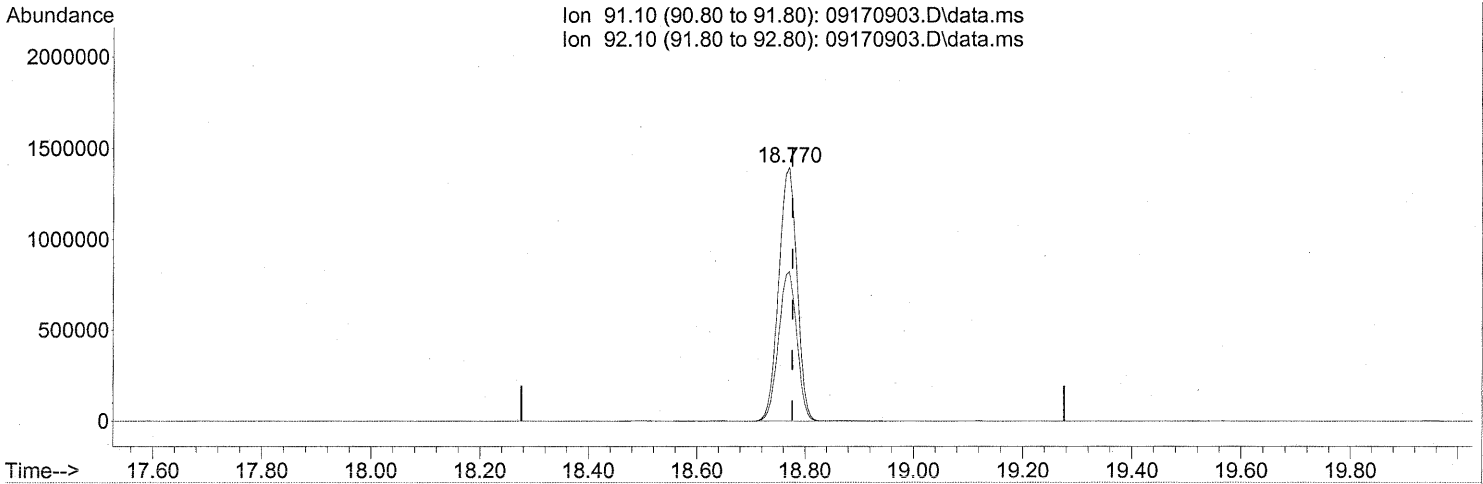
response 10655

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170903.D
Acq On : 17 Sep 2009 8:41
Operator : LH
Sample : P0903145-009 (700mL)
Misc : Environmental H & E 102718
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170903.D\data.ms

(58) Toluene (T)

18.770min (-0.006) 51.12ng

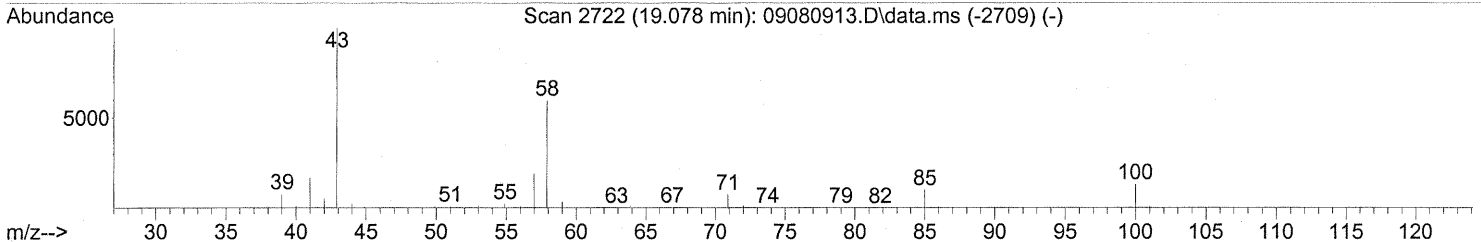
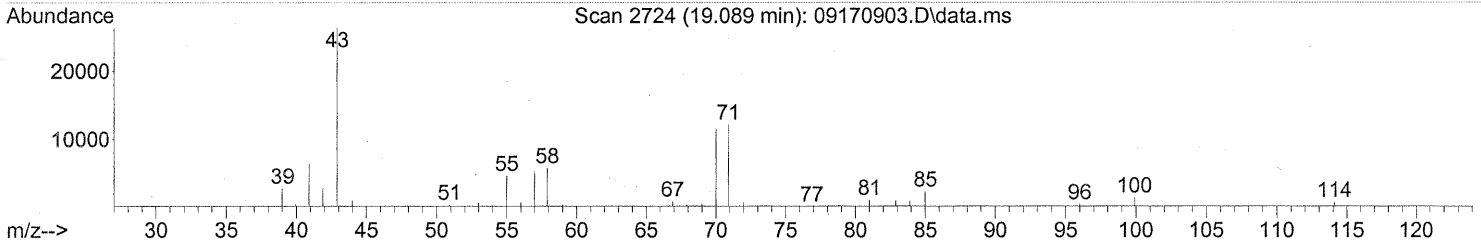
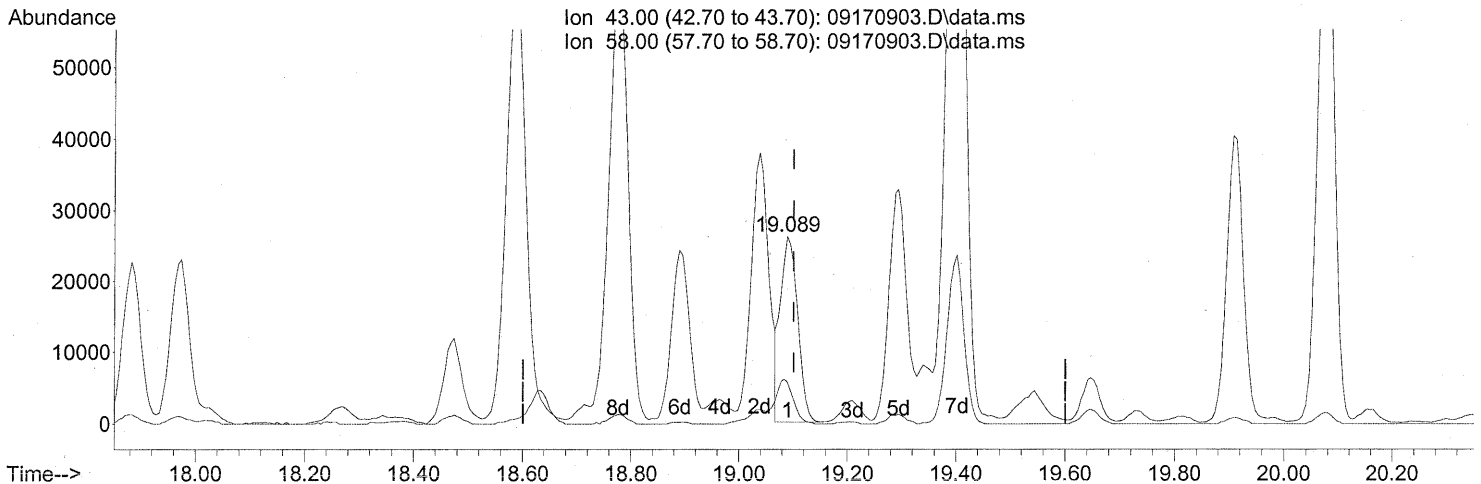
response 3267035

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.089min (-0.011) 1.87ng
 response 57550

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	25.18#
0.00	0.00	0.00
0.00	0.00	0.00

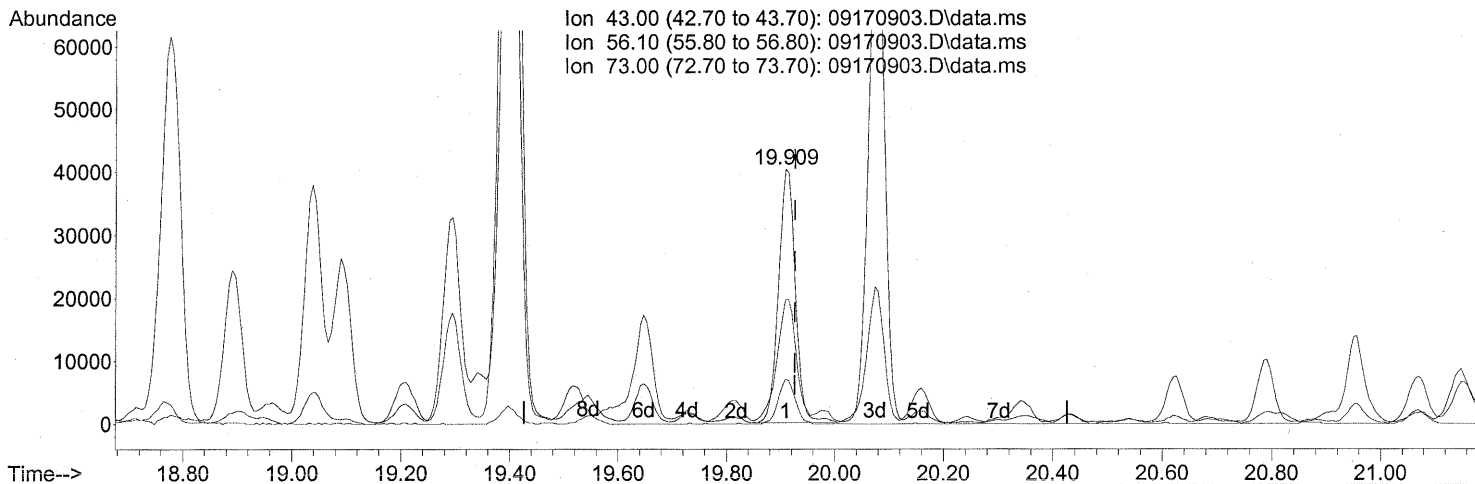
FP in 9/21/09

em 9/21/09

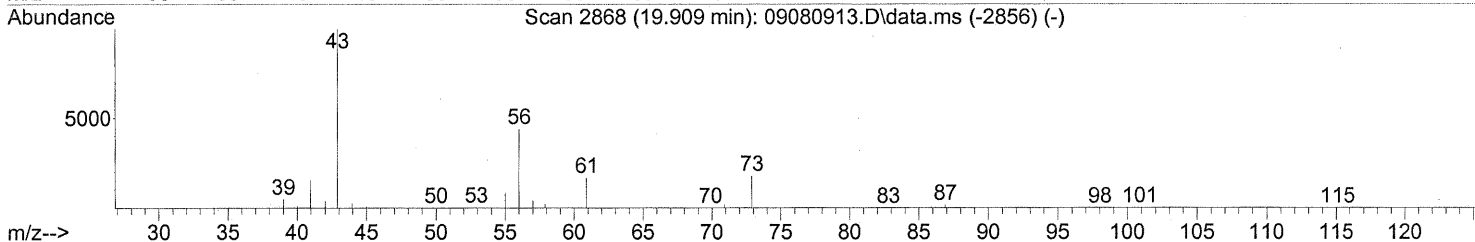
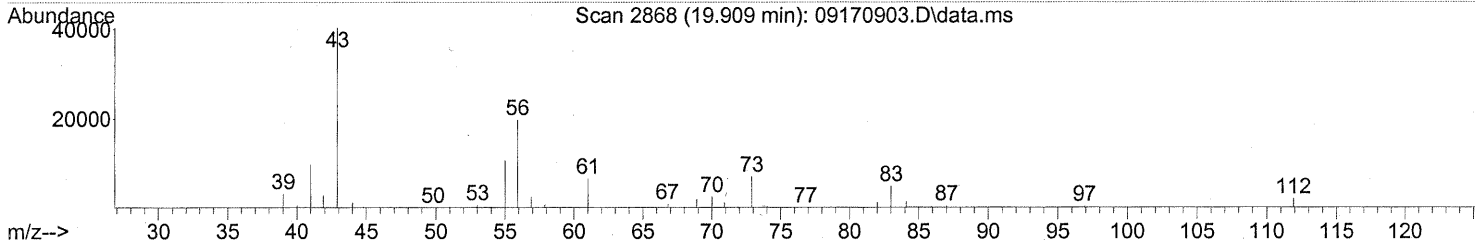
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 09170903.D\data.ms
 Ion 56.10 (55.80 to 56.80): 09170903.D\data.ms
 Ion 73.00 (72.70 to 73.70): 09170903.D\data.ms



TIC: 09170903.D\data.ms

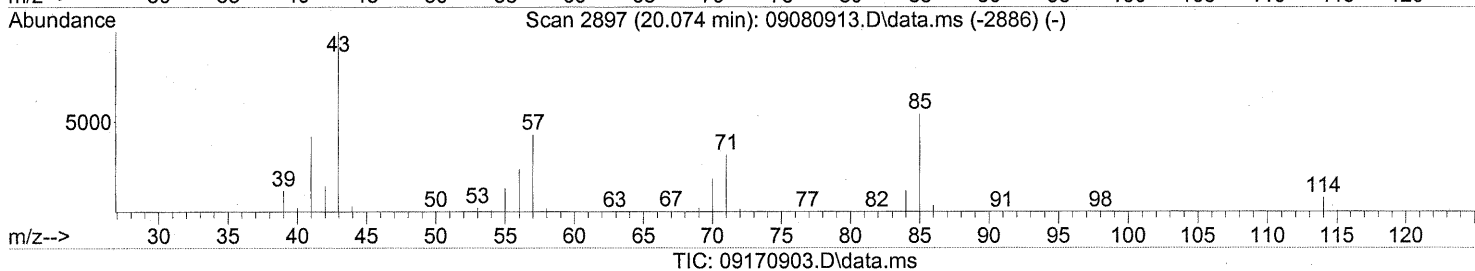
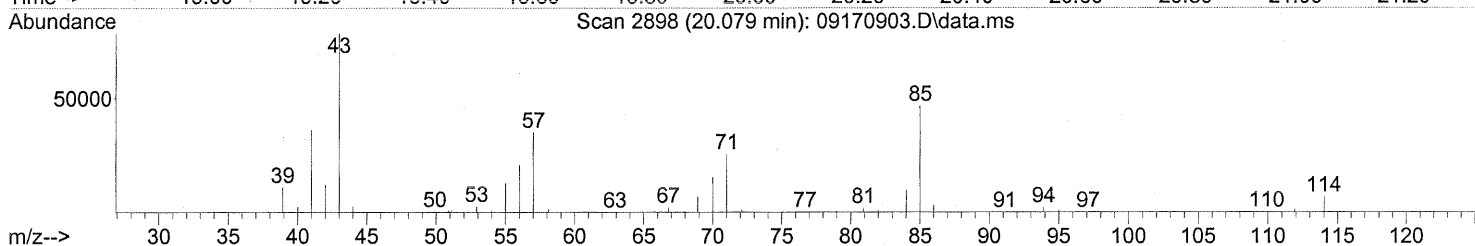
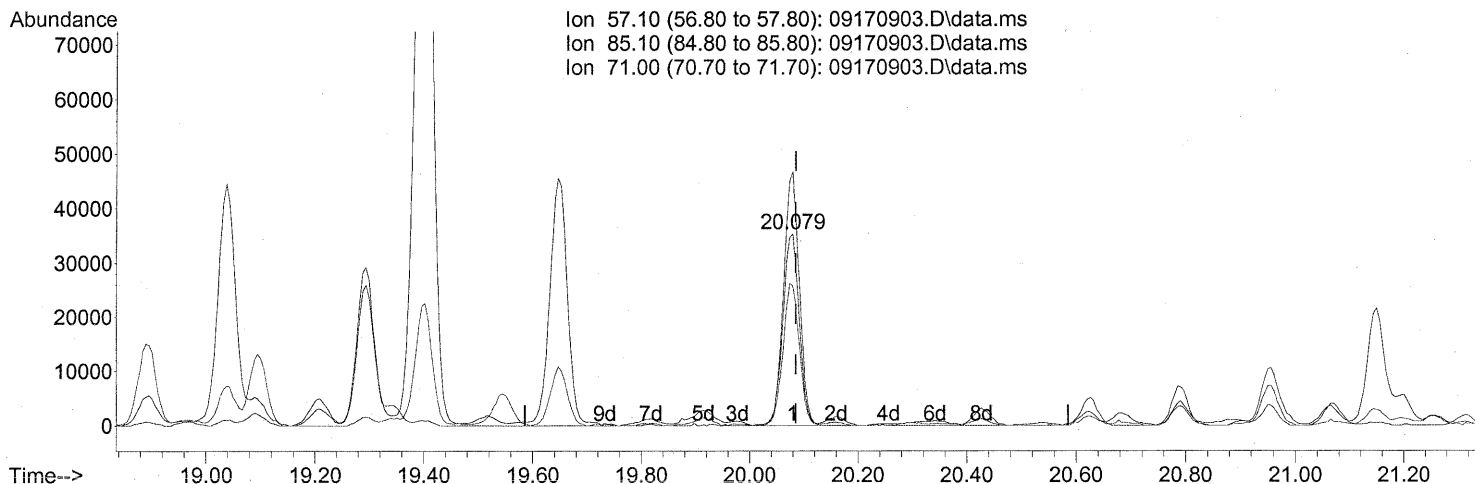
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 2.47ng
 response 87274

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	55.34
73.00	15.40	17.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.079min (-0.006) 6.23ng

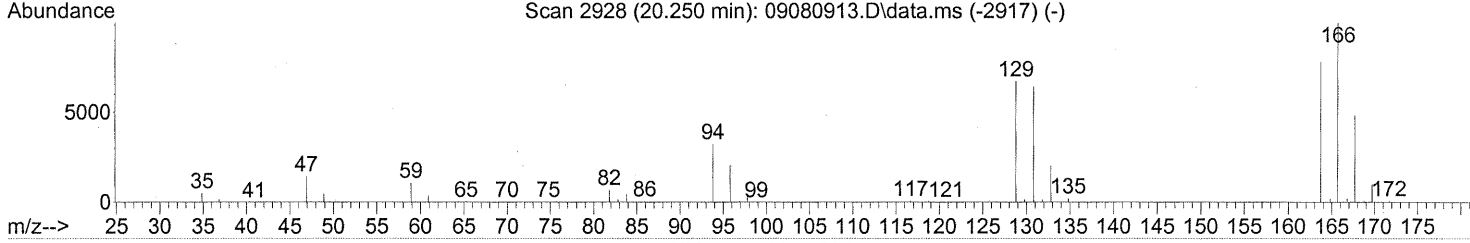
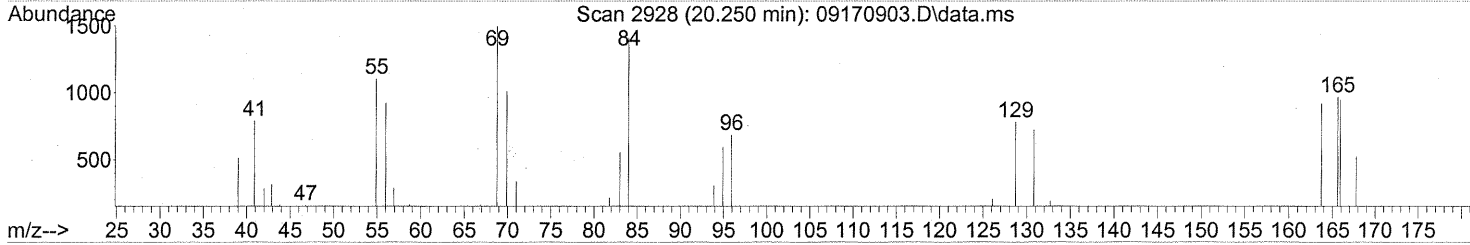
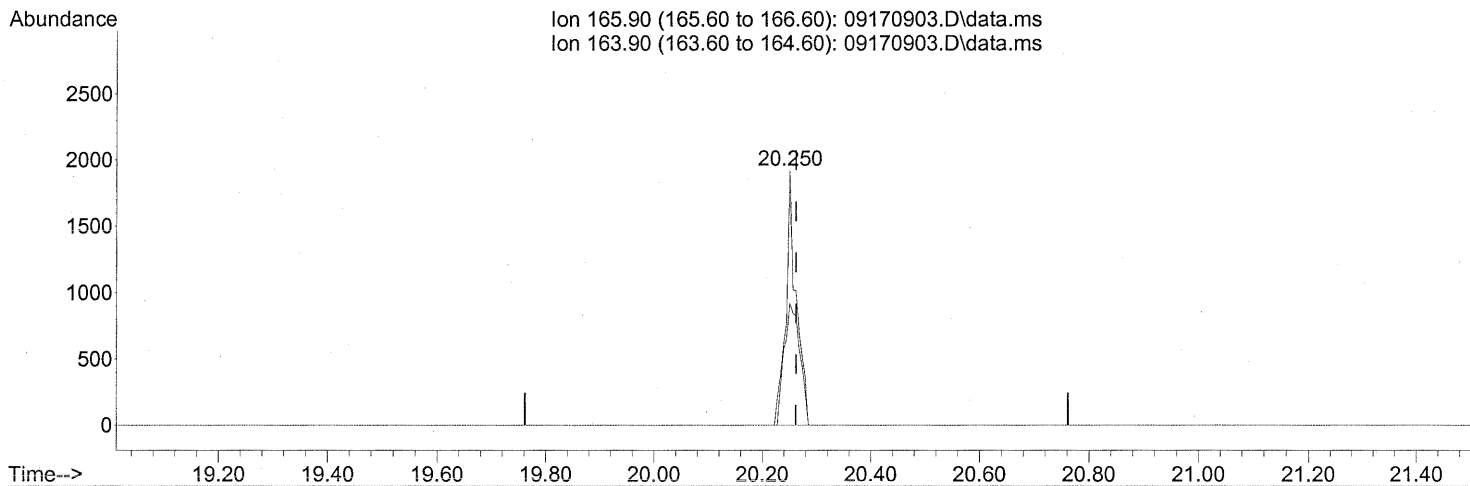
response 74735

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	127.14
71.00	69.40	73.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.250min (-0.011) 0.13ng

response 2563

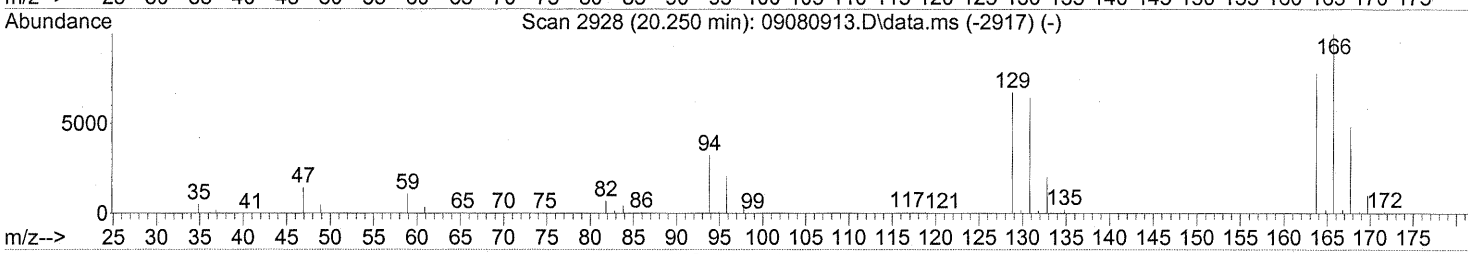
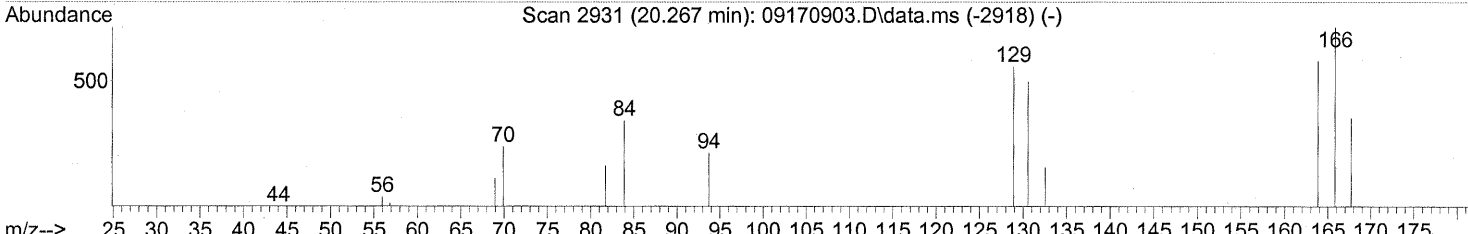
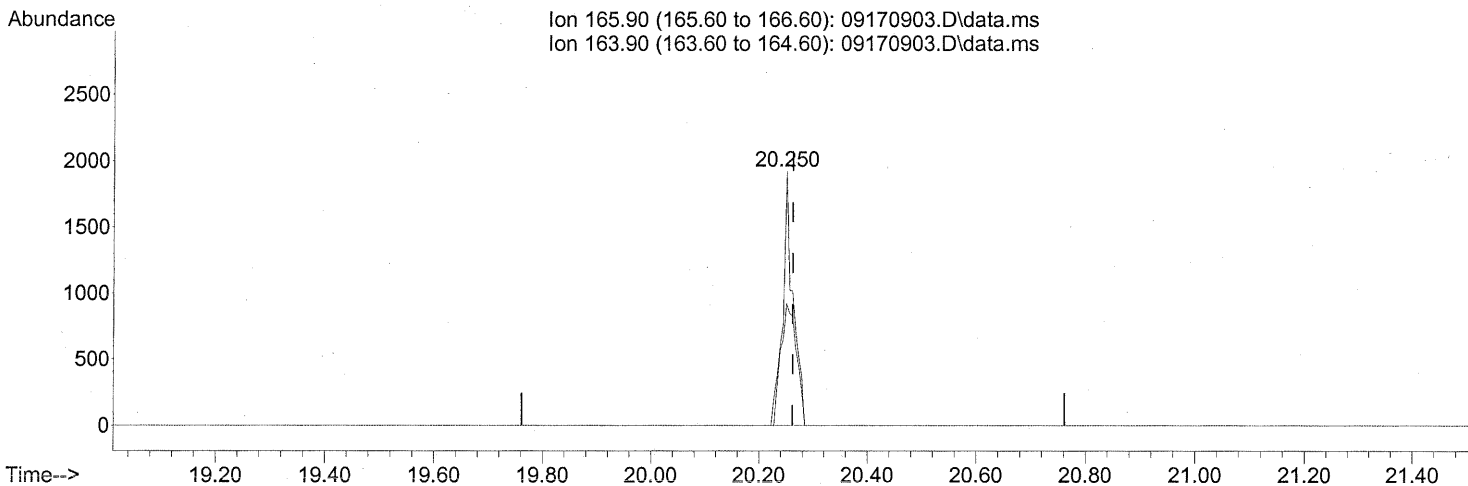
Ion	Exp%	Act%
165.90	100	100
163.90	79.60	71.56
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(64) Tetrachloroethene (T)

20.250min (-0.011) 0.13ng

response 2563

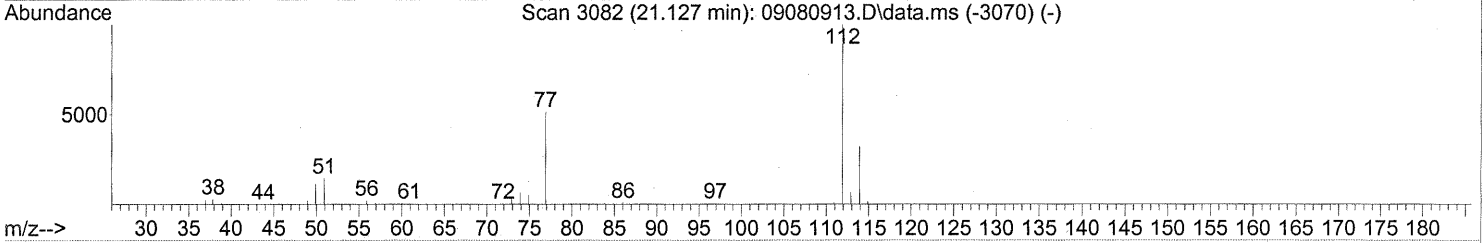
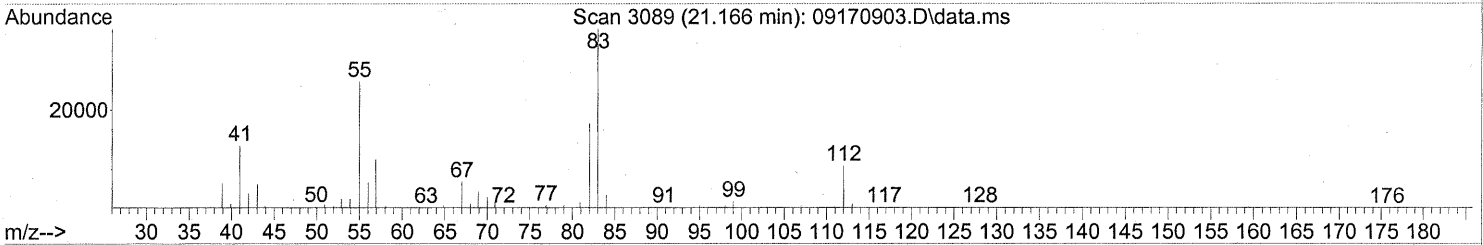
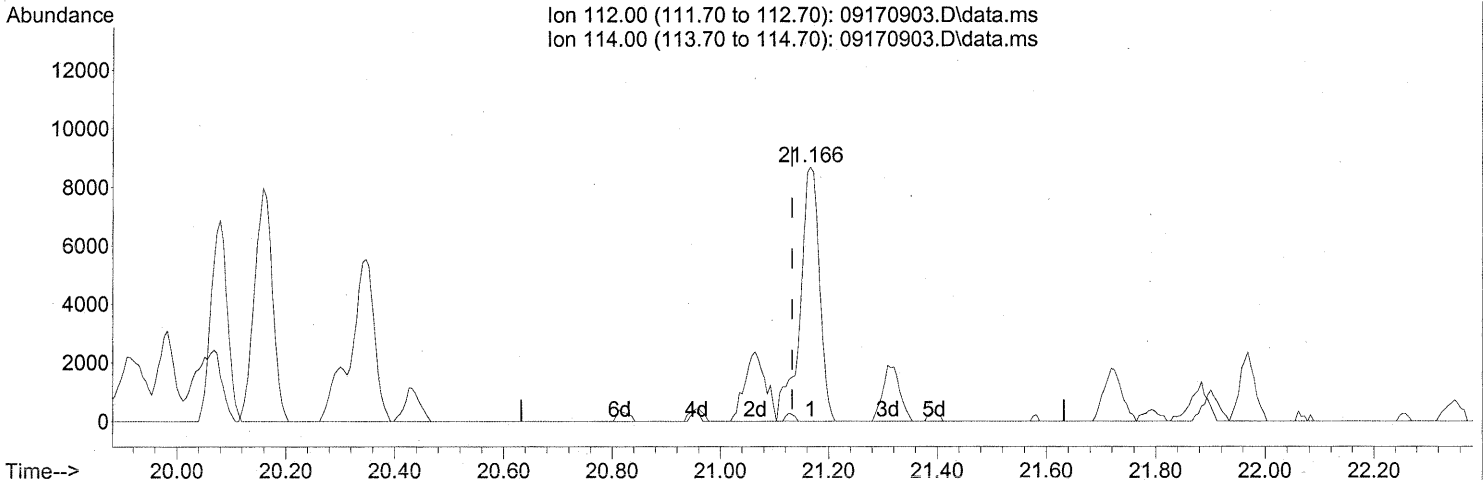
Ion	Exp%	Act%
165.90	100	100
163.90	79.60	71.56
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170903.D
Acq On : 17 Sep 2009 8:41
Operator : LH
Sample : P0903145-009 (700mL)
Misc : Environmental H & E 102718
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(65) Chlorobenzene (T)
21.166min (+0.034) 0.51ng

response 21745

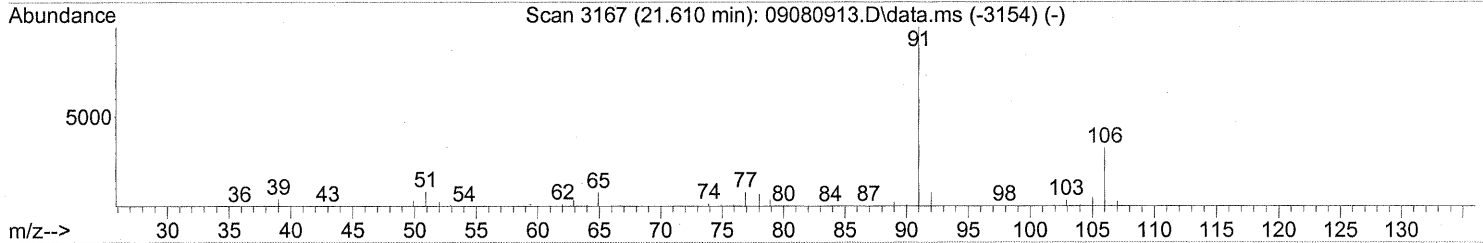
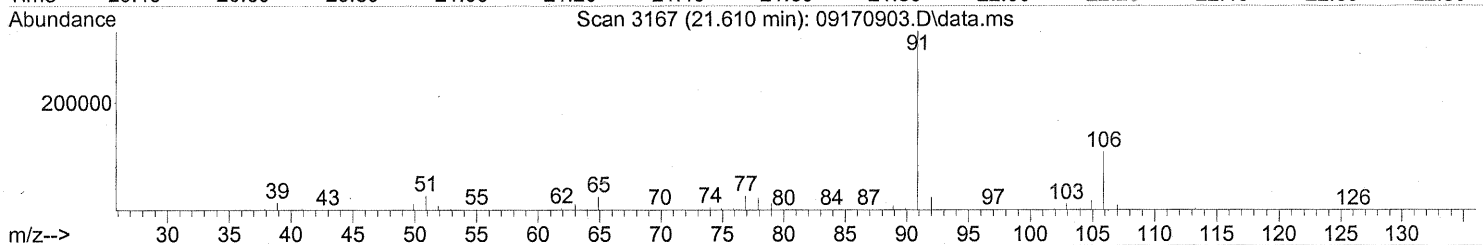
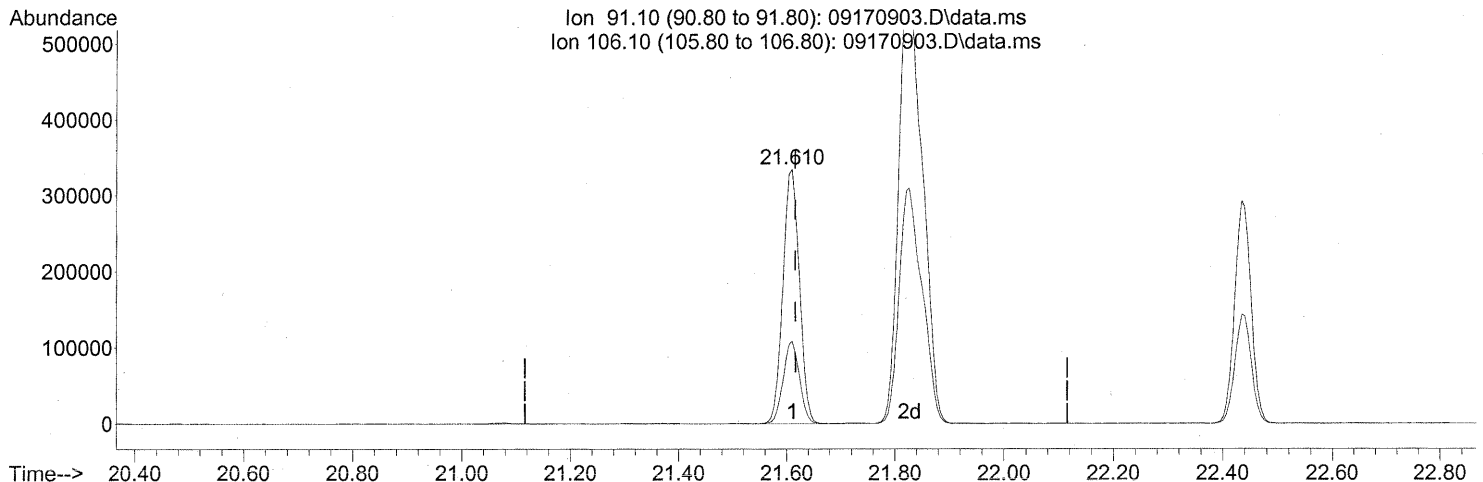
Ion	Exp%	Act%
112.00	100	100
114.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FR m 9/21/09
com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(66) Ethylbenzene (T)

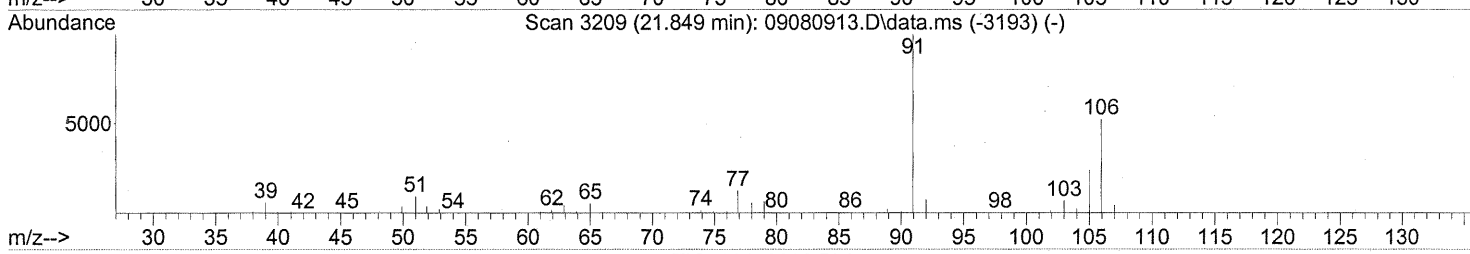
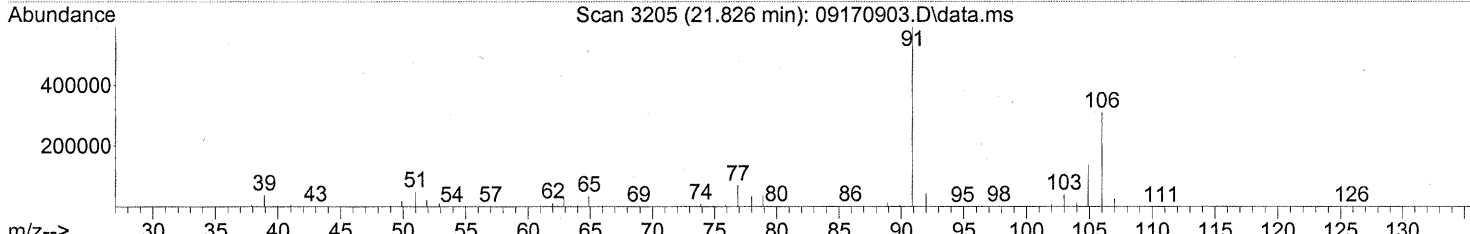
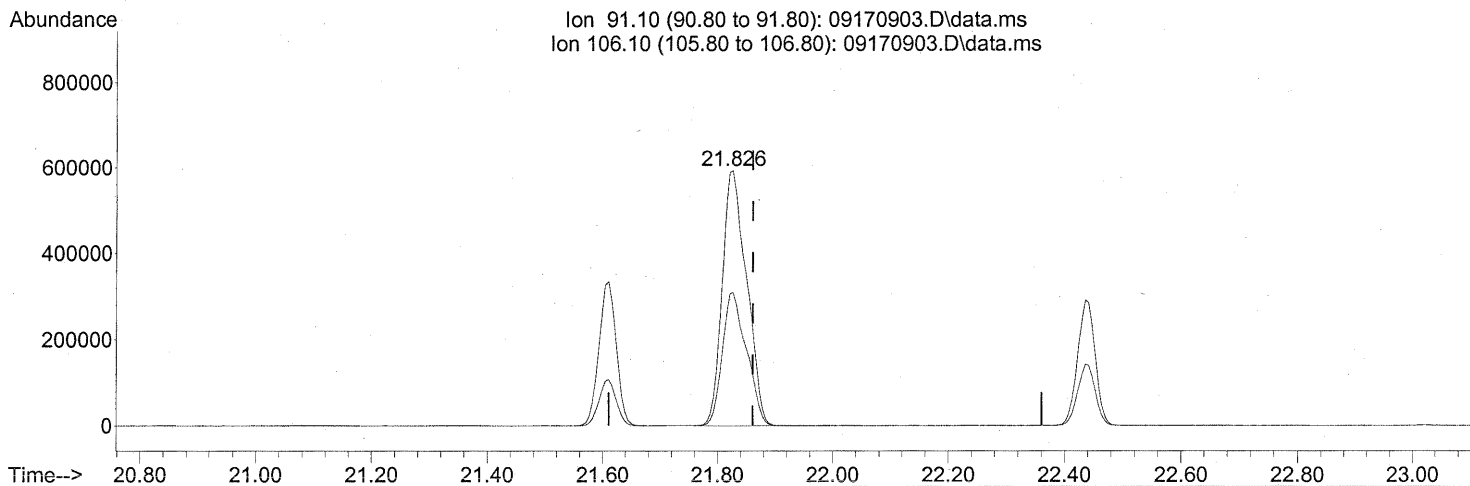
21.610min (-0.006) 10.03ng
 response 704088

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(67) m- & p-Xylenes (T)

21.826min (-0.034) 32.09ng

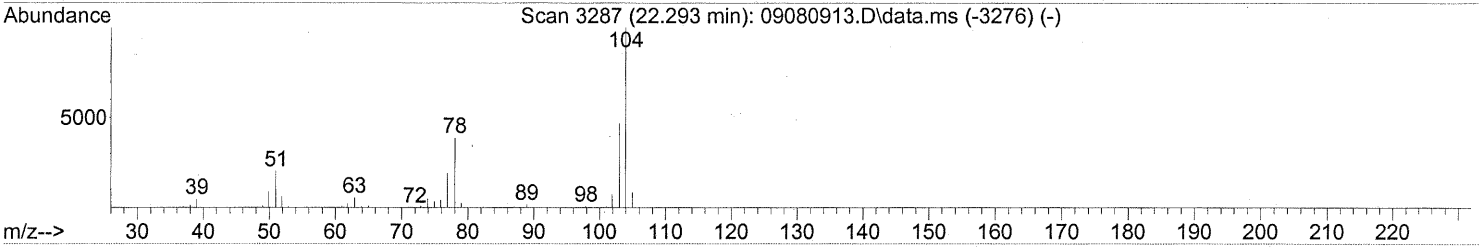
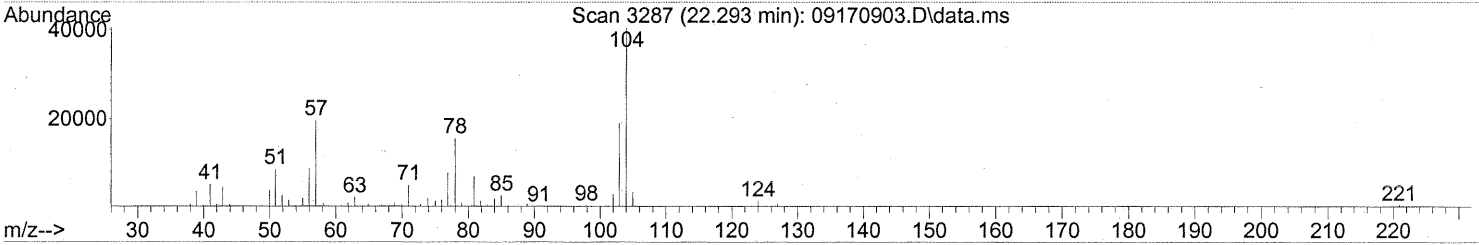
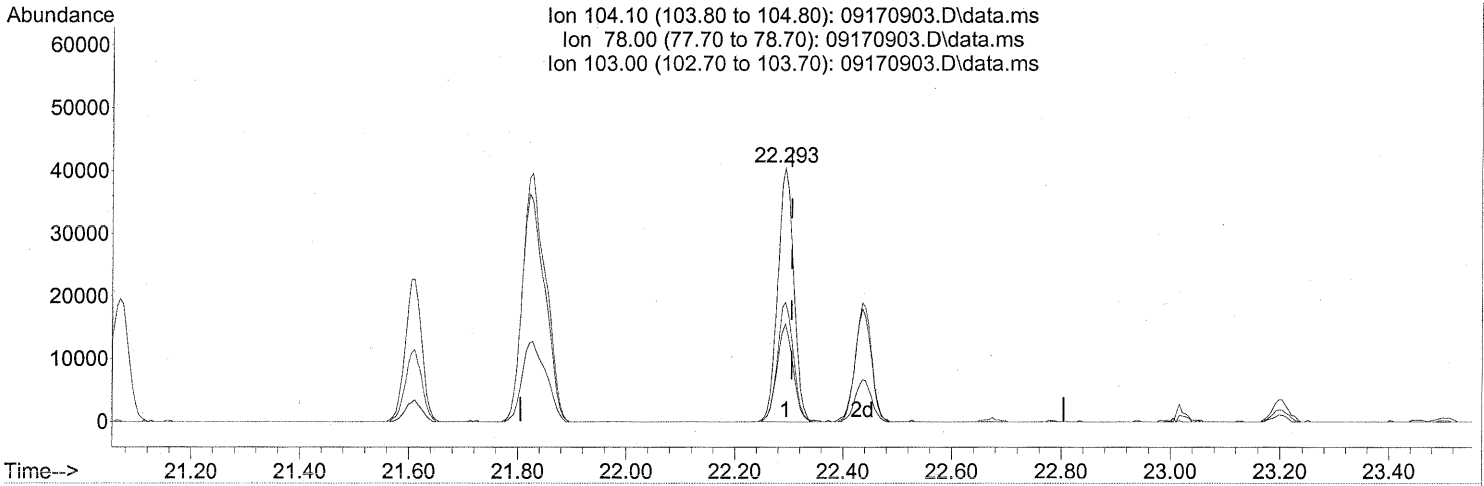
response 1760243

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 1.86ng

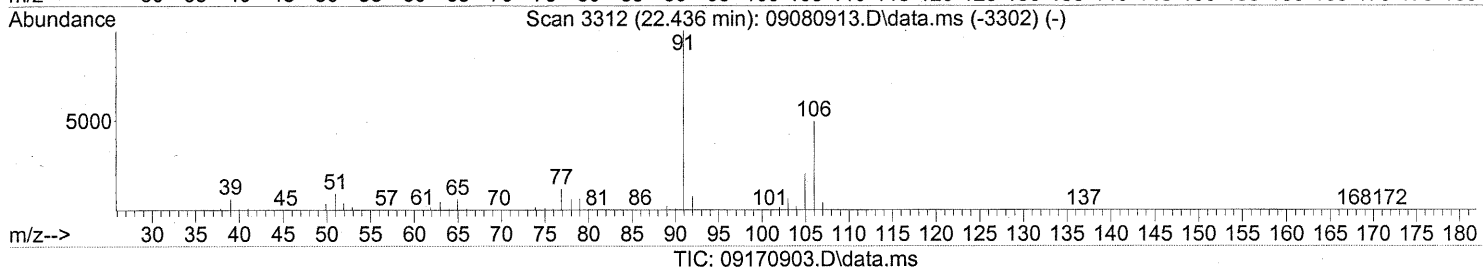
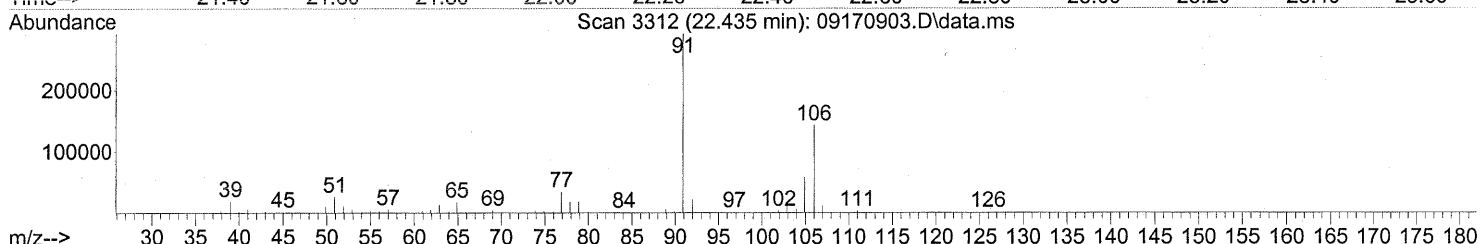
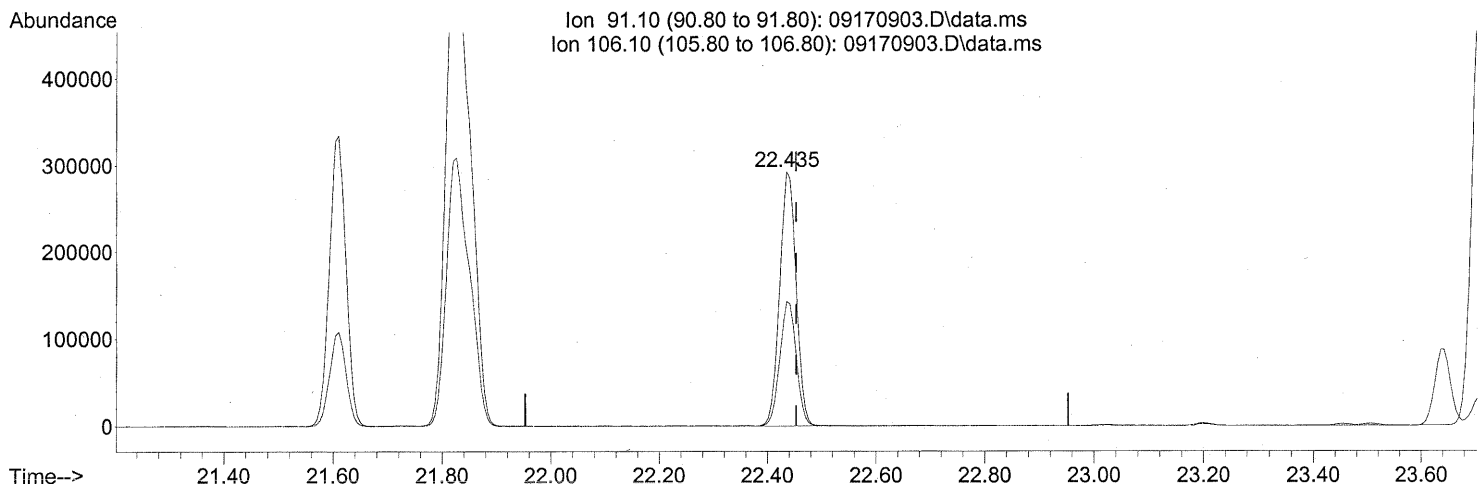
response 83748

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.74
103.00	47.80	47.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.435min (-0.017) 10.96ng

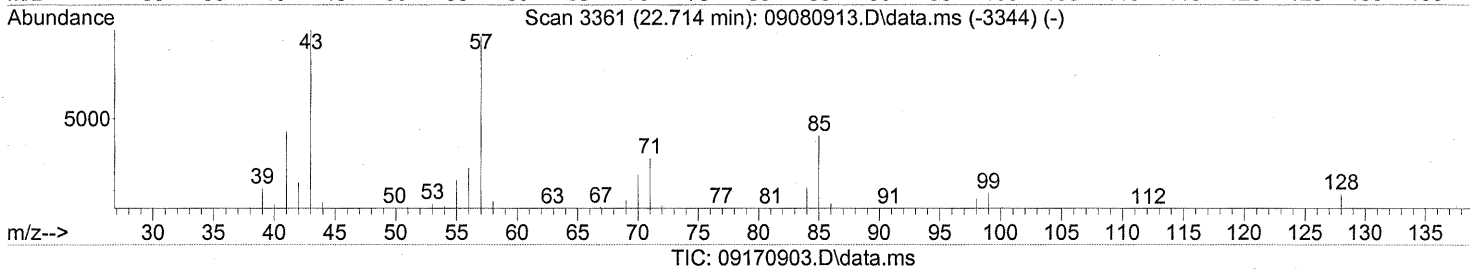
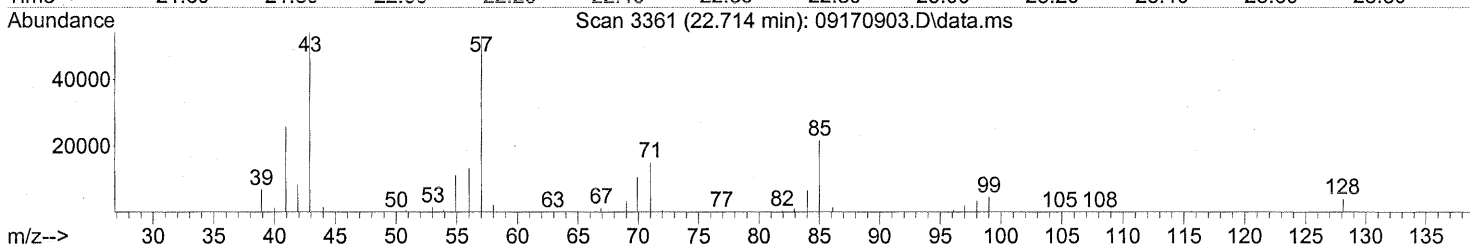
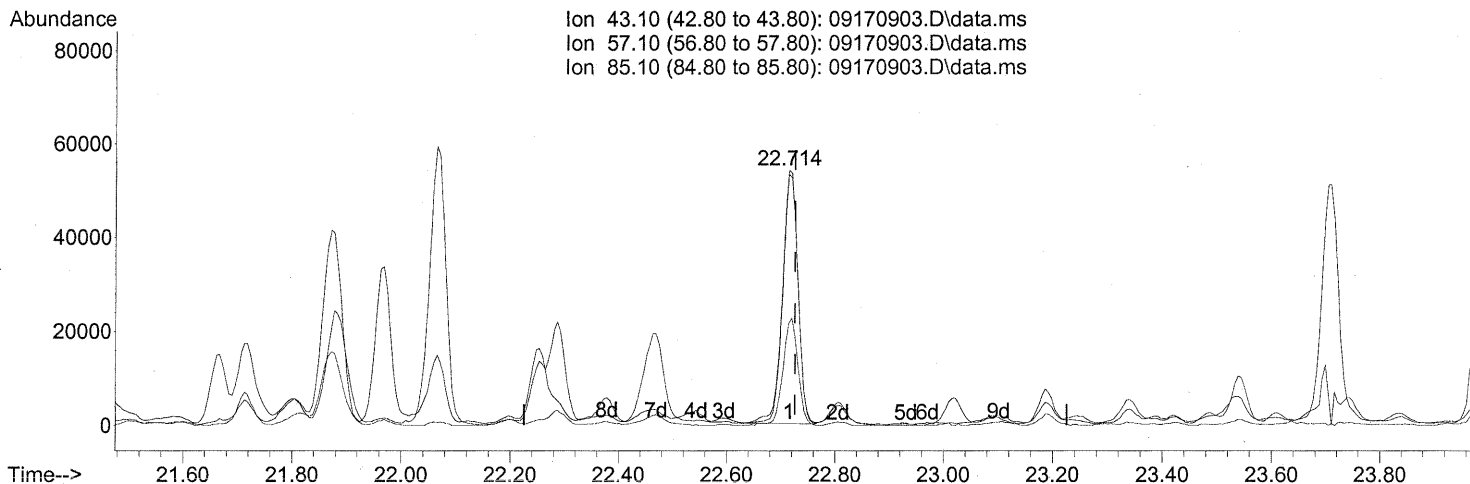
response 614235

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



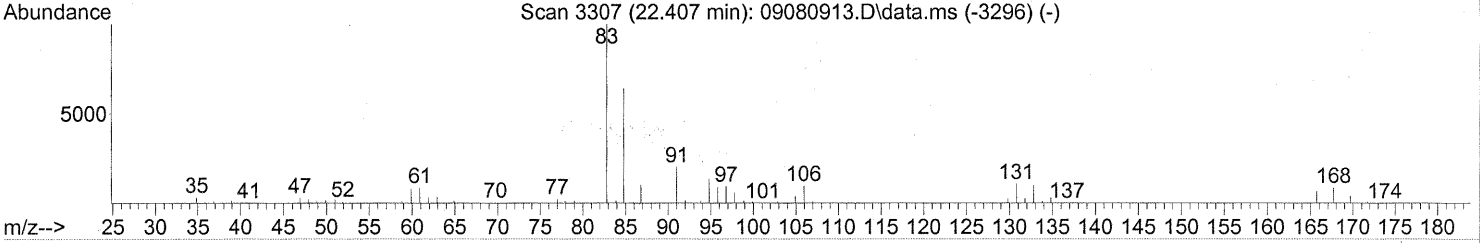
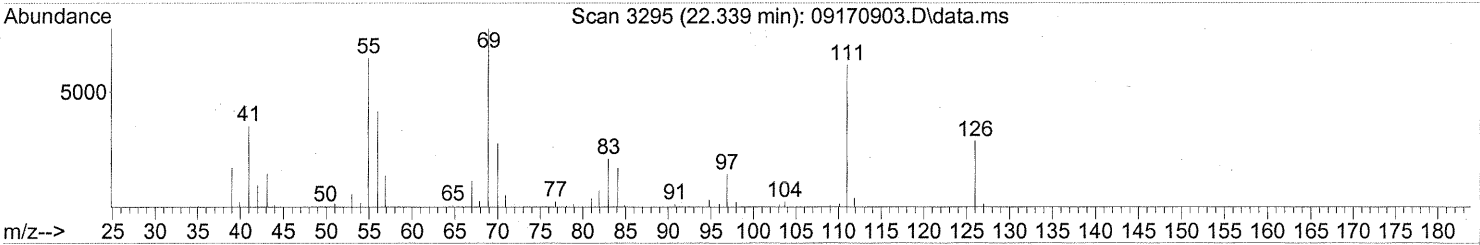
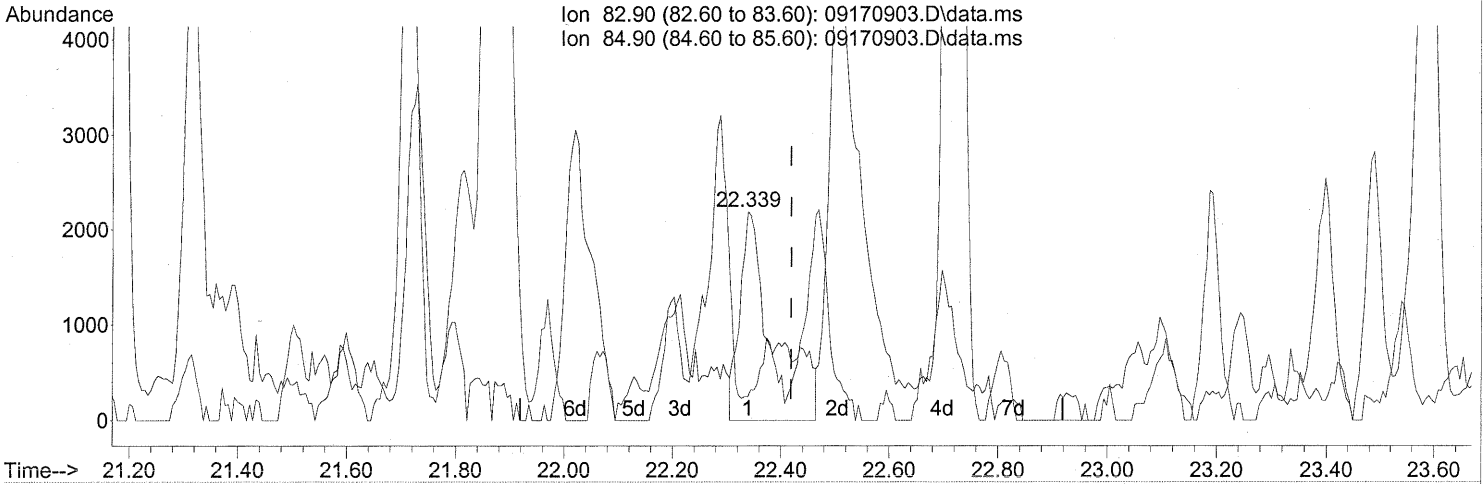
(71) n-Nonane (T)
 22.714min (-0.011) 3.98ng
 response 108385

Ion	Exp%	Act%
43.10	100	100
57.10	89.00	94.39
85.10	33.10	40.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(72) 1,1,2,2-Tetrachloroethane (T)

22.339min (-0.080) 0.39ng

response 9567

Ion	Exp%	Act%
82.90	100	100
84.90	63.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

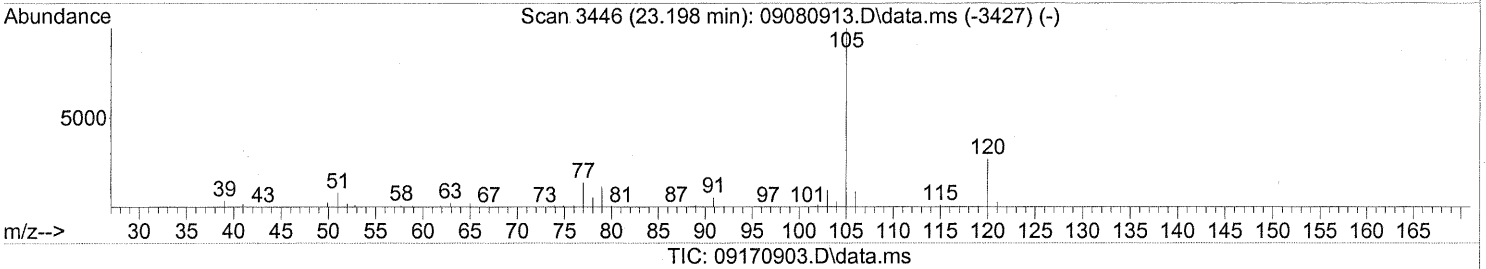
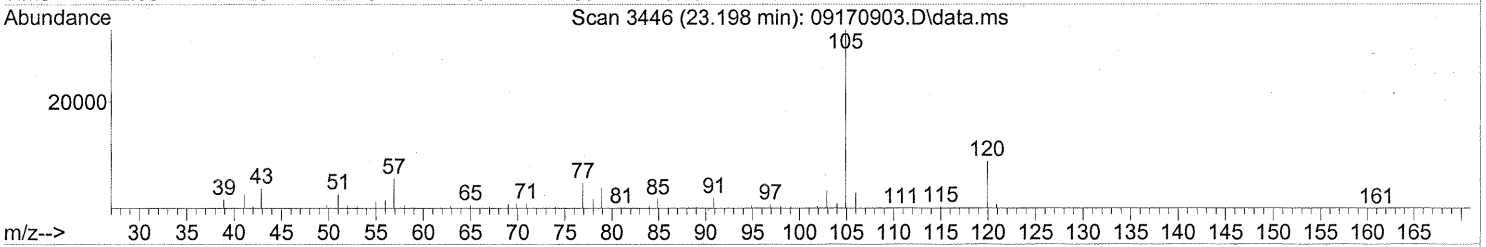
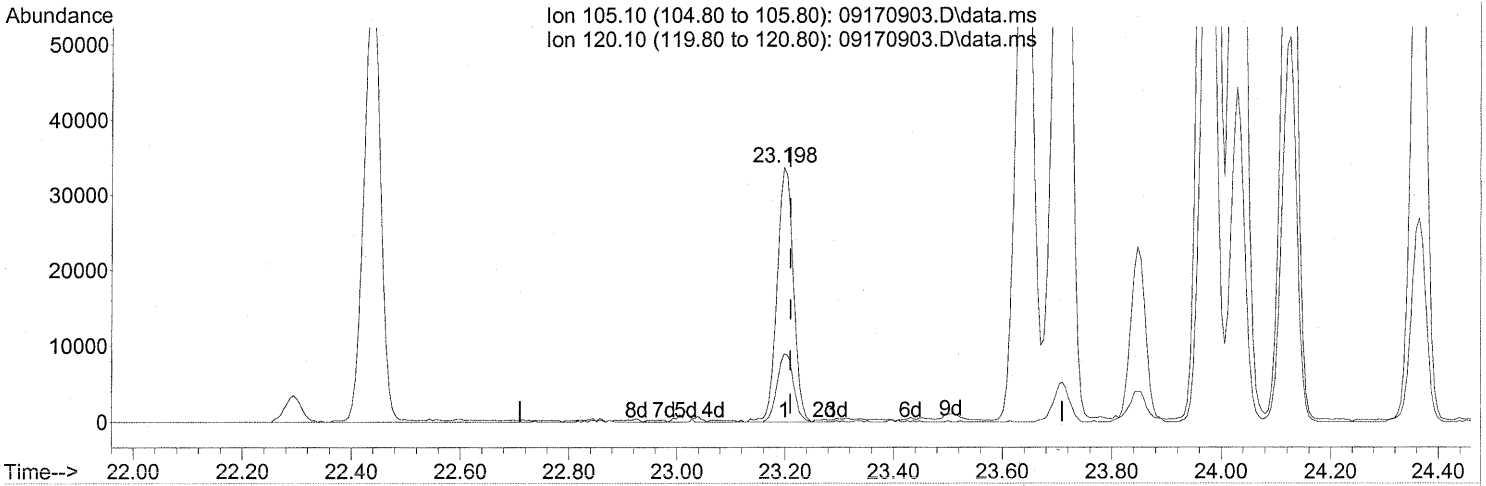
FP in 9/21/09

em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(74) Cumene (T)

23.198min (-0.011) 0.92ng

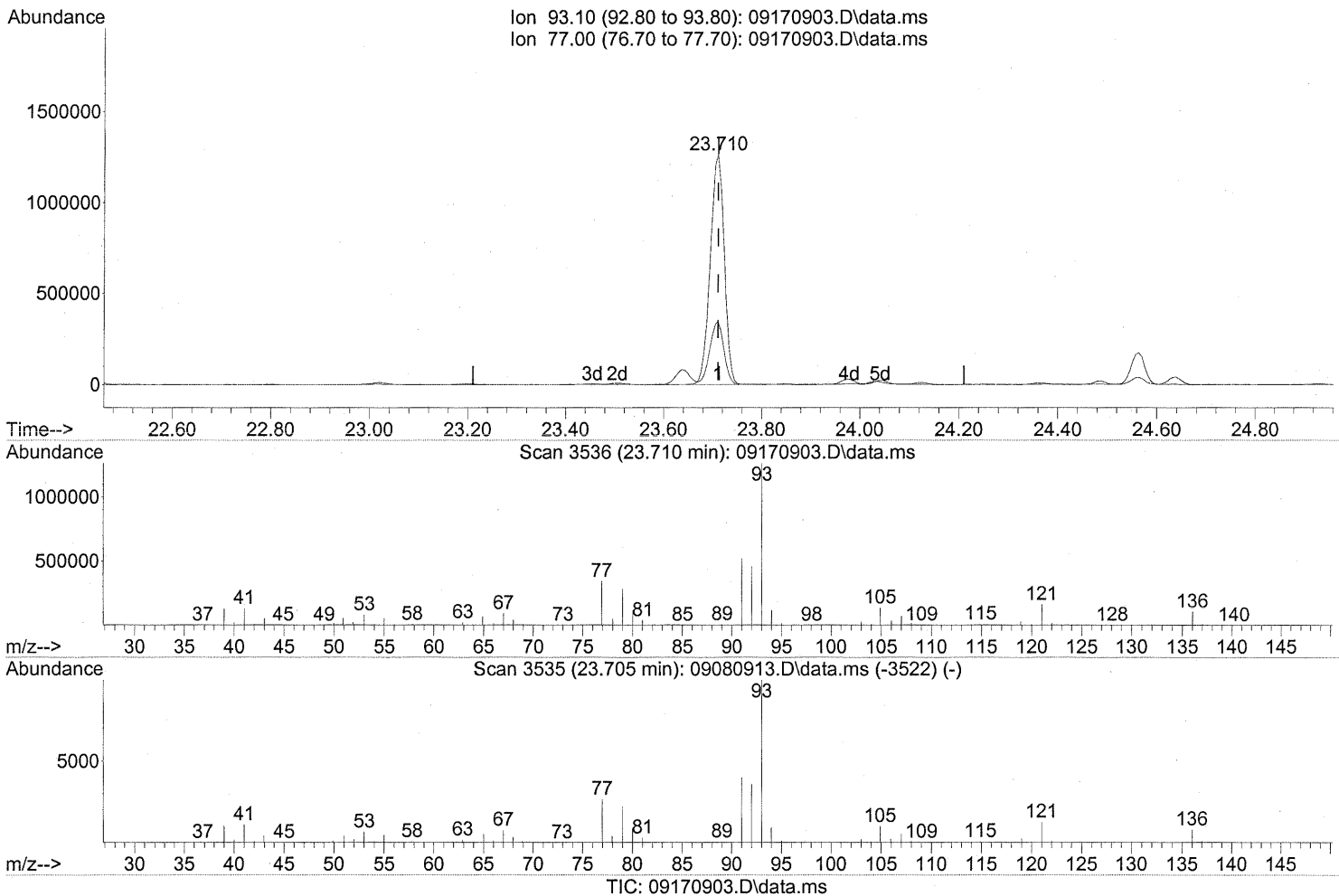
response 70224

Ion	Exp%	Act%
105.10	100	100
120.10	26.20	27.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



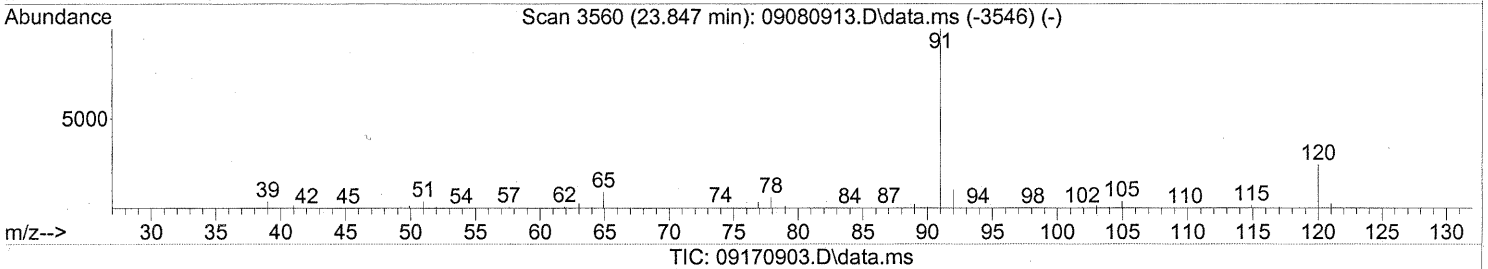
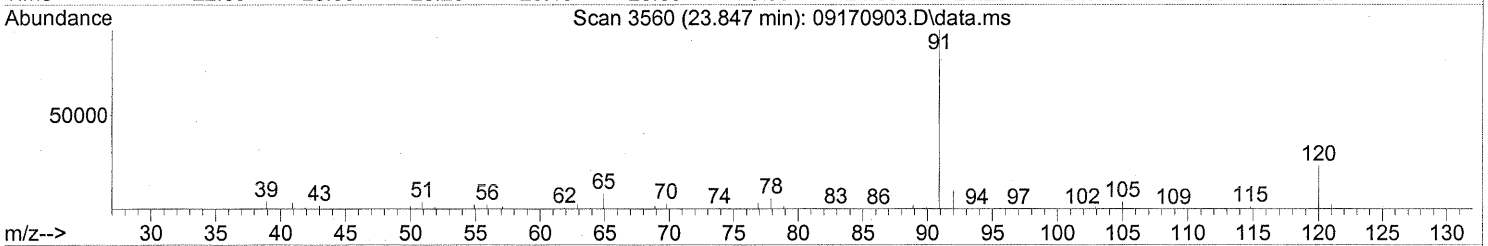
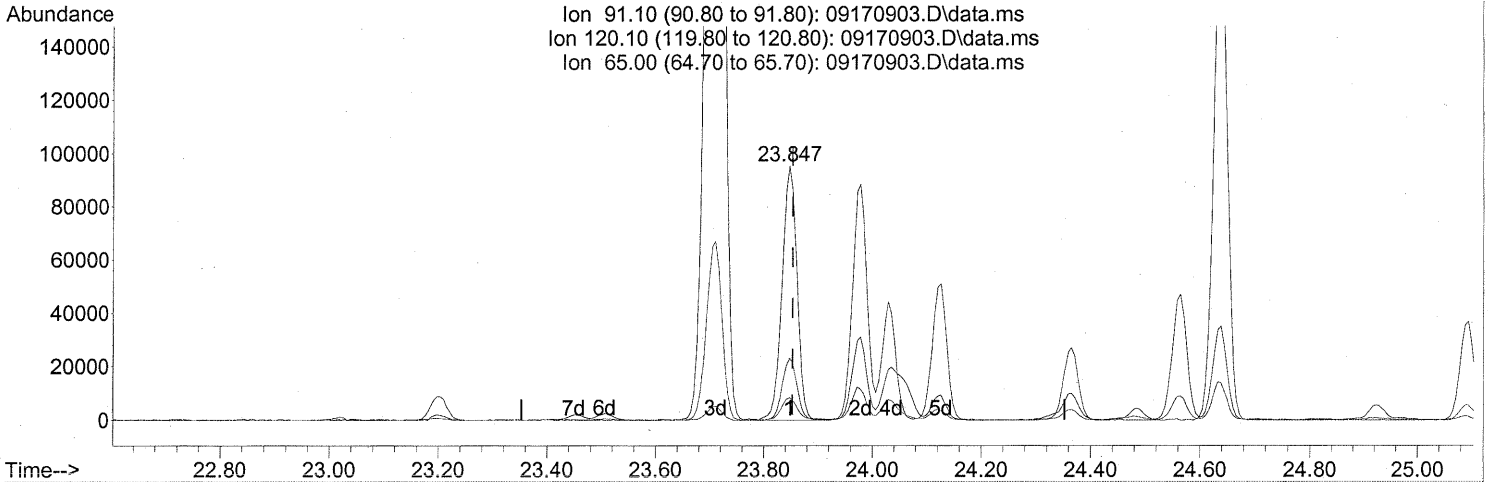
(75) alpha-Pinene (T)
 23.710min (-0.000) 69.85ng
 response 2517921

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

23.847min (-0.006) 2.03ng

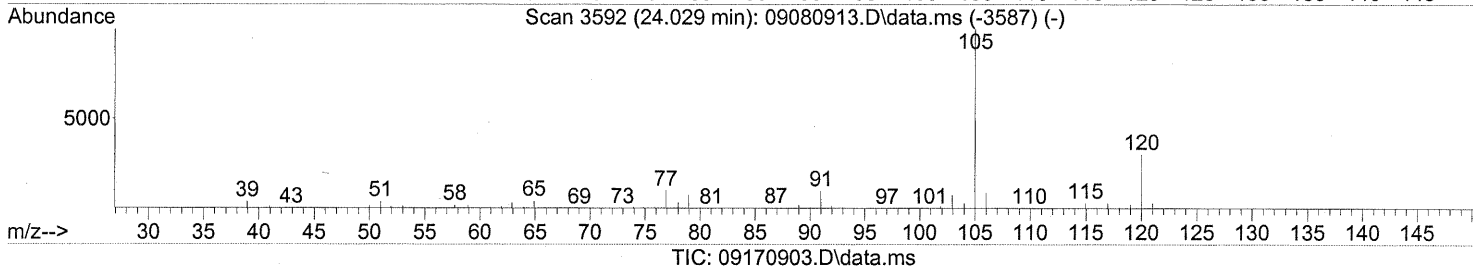
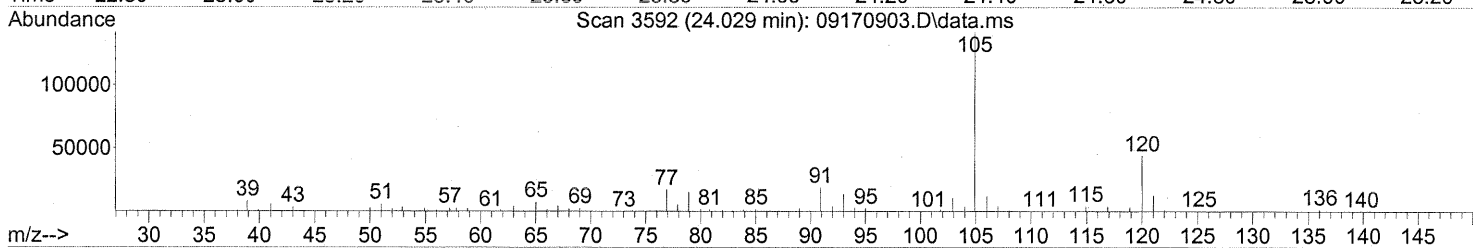
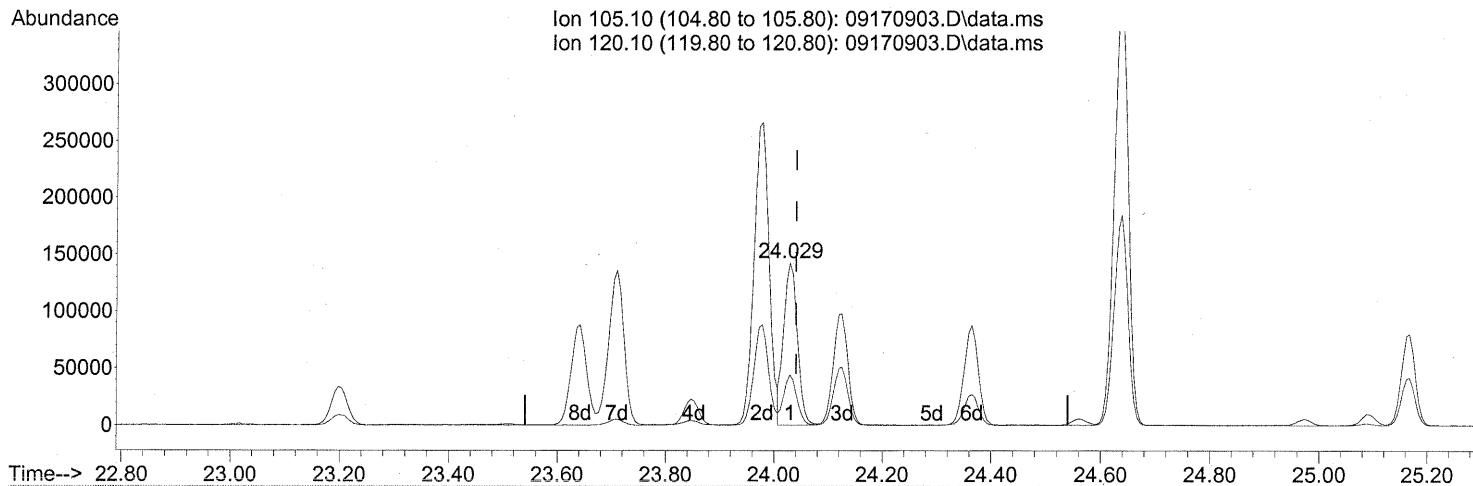
response 182330

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	24.13
65.00	10.30	10.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



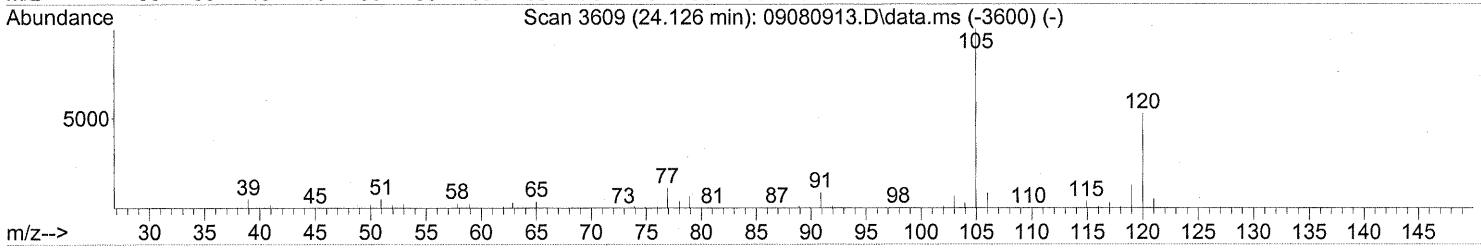
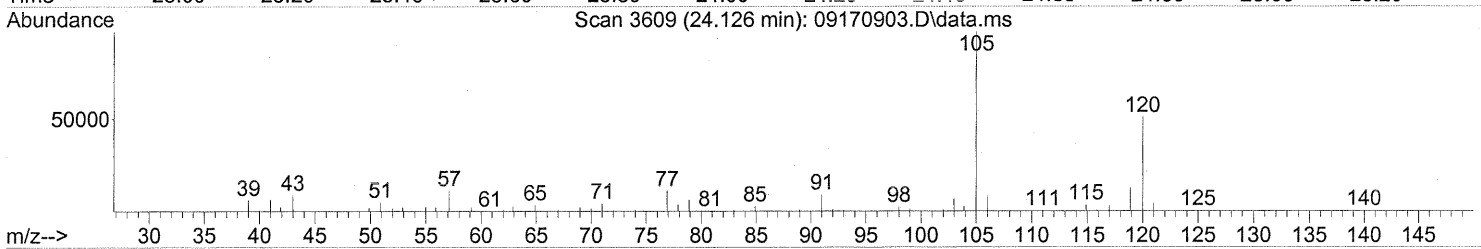
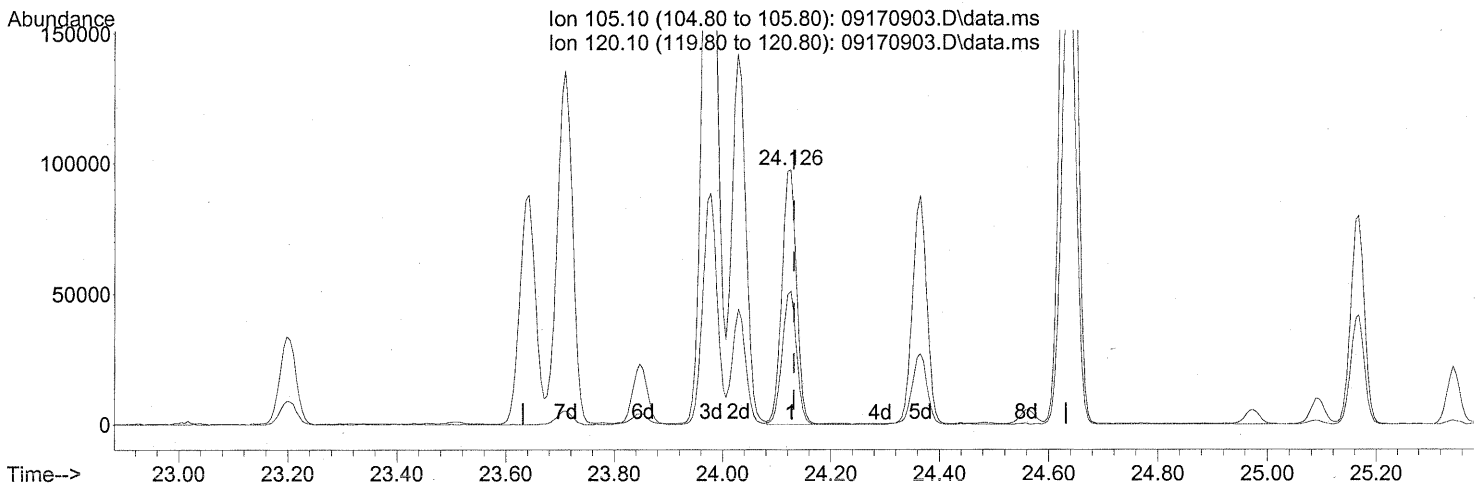
(78) 4-Ethyltoluene (T)
 24.029min (-0.011) 3.51ng
 response 251314

Ion	Exp%	Act%
105.10	100	100
120.10	29.20	30.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170903.D\data.ms

(79) 1,3,5-Trimethylbenzene (T)

24.126min (-0.006) 3.11ng

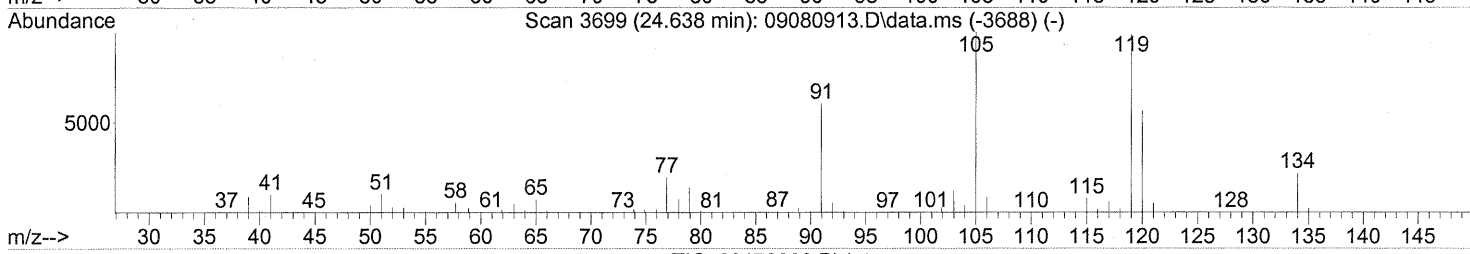
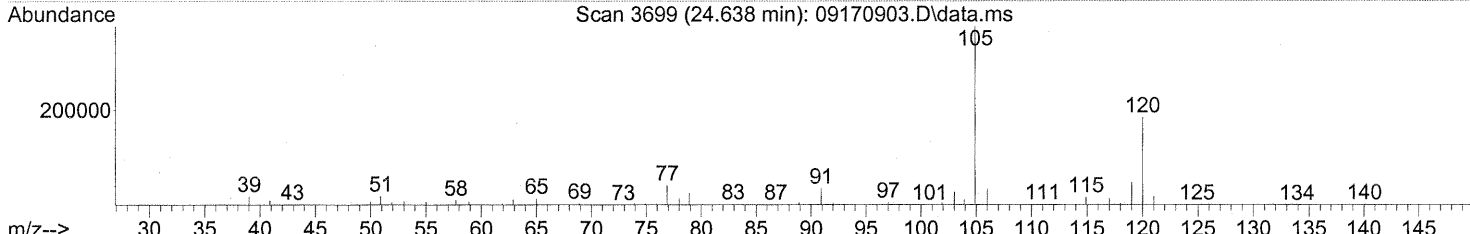
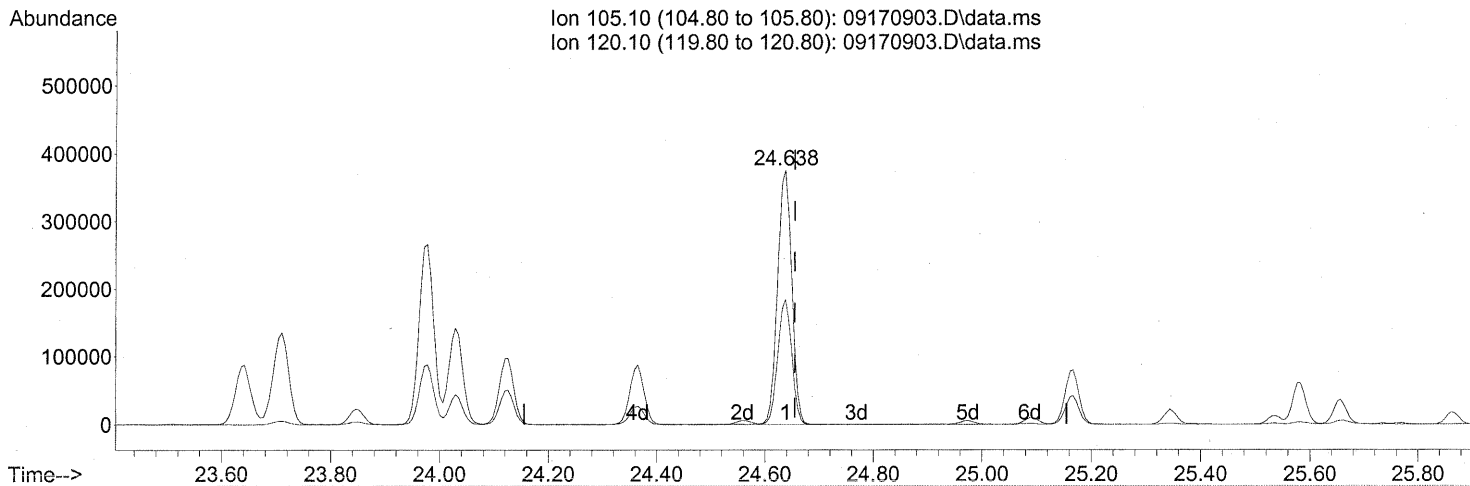
response 185176

Ion	Exp%	Act%
105.10	100	100
120.10	48.10	51.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 10.65ng

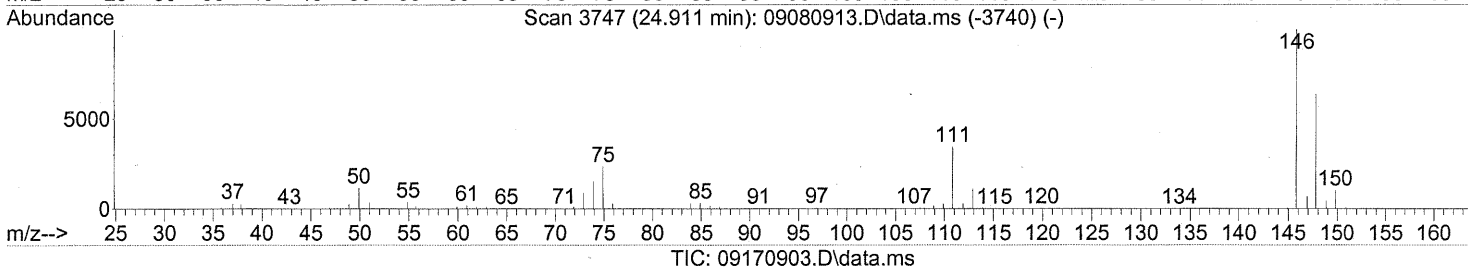
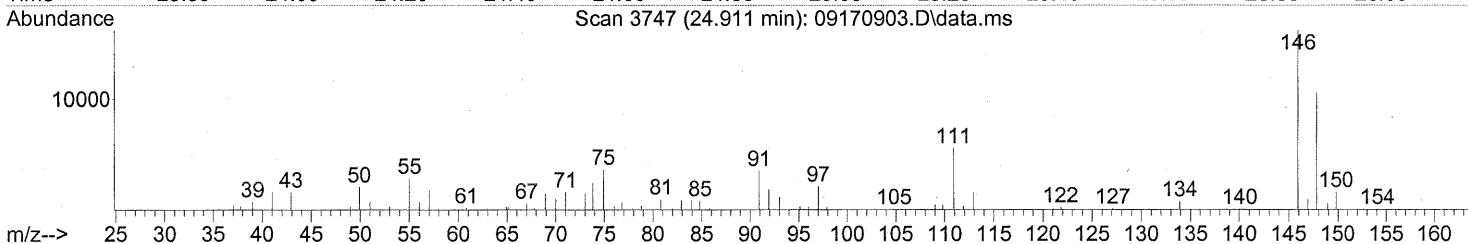
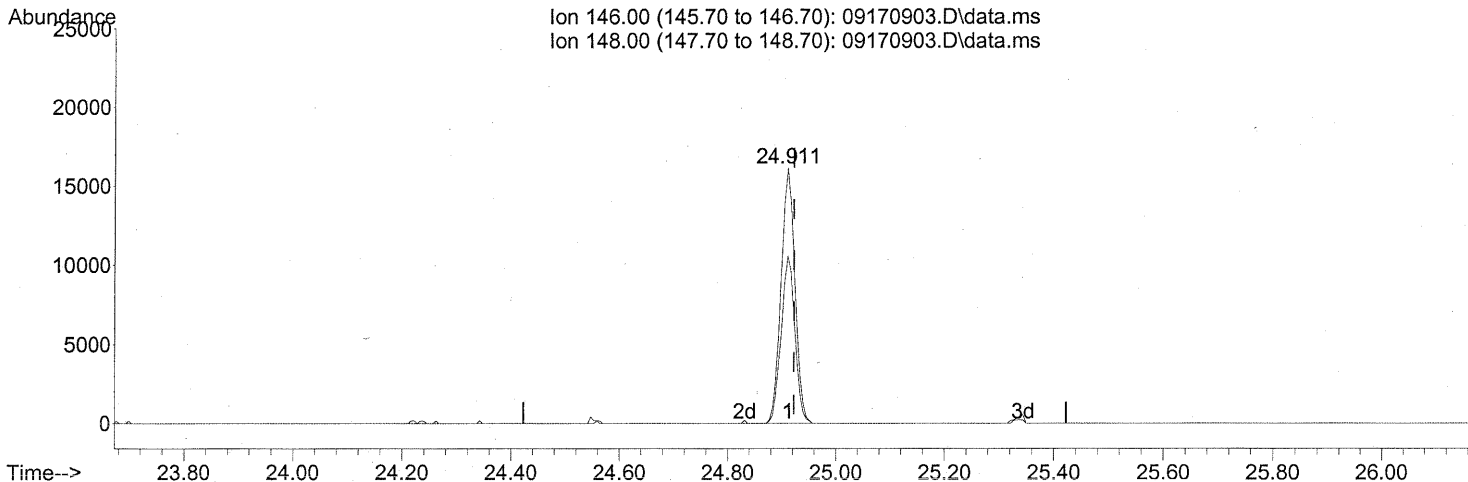
response 677012

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.74ng

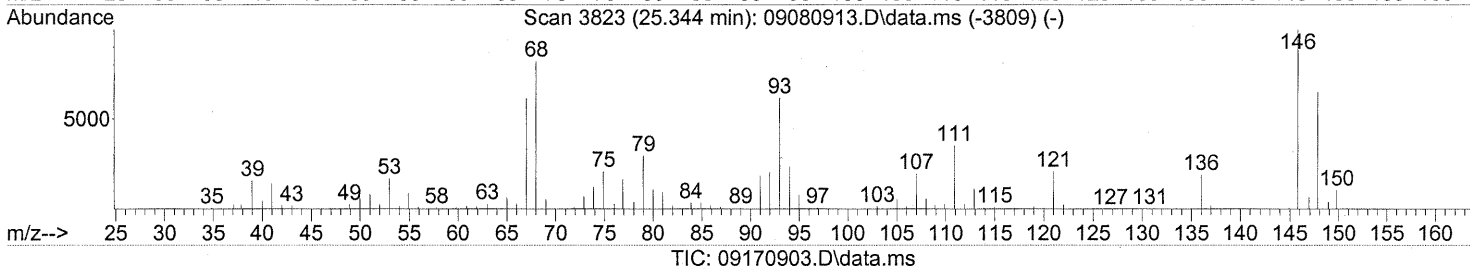
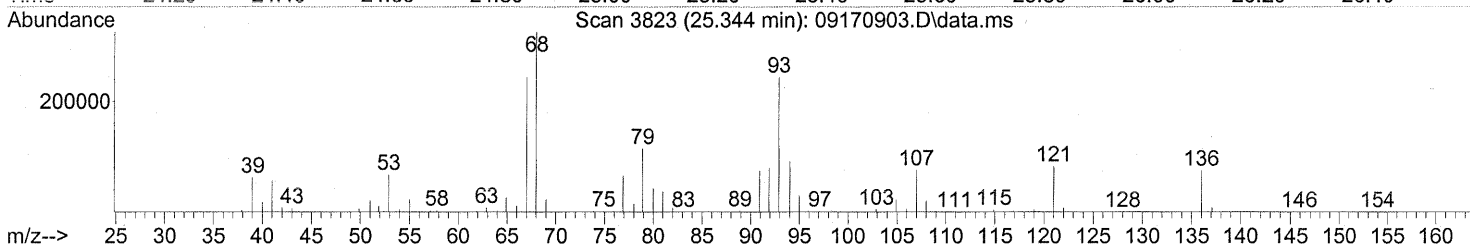
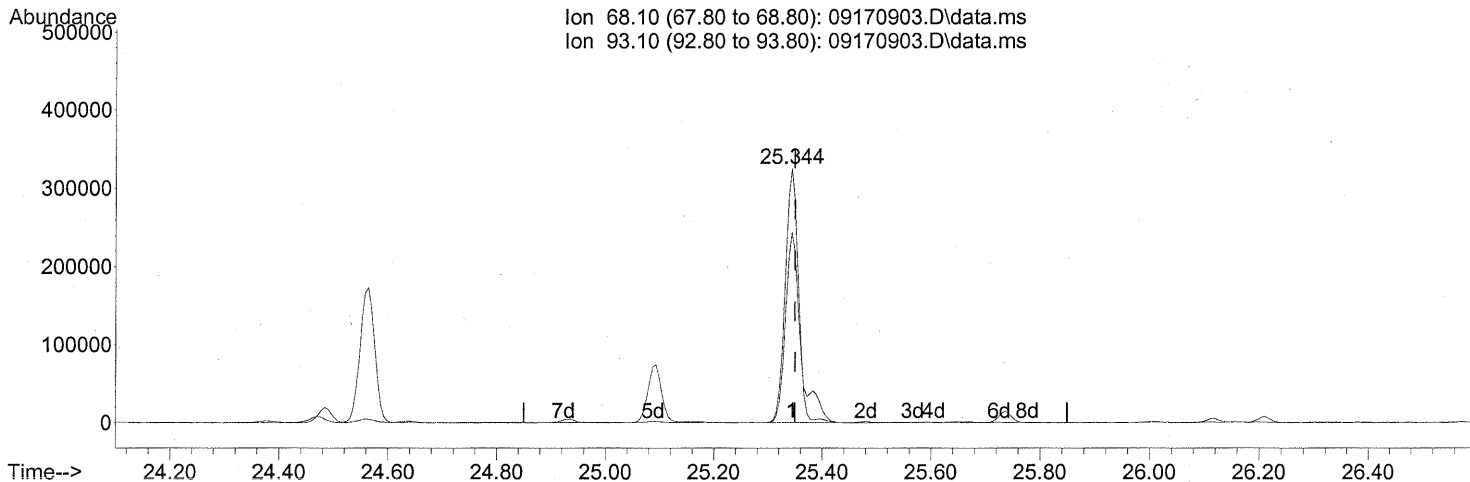
response 28719

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	64.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



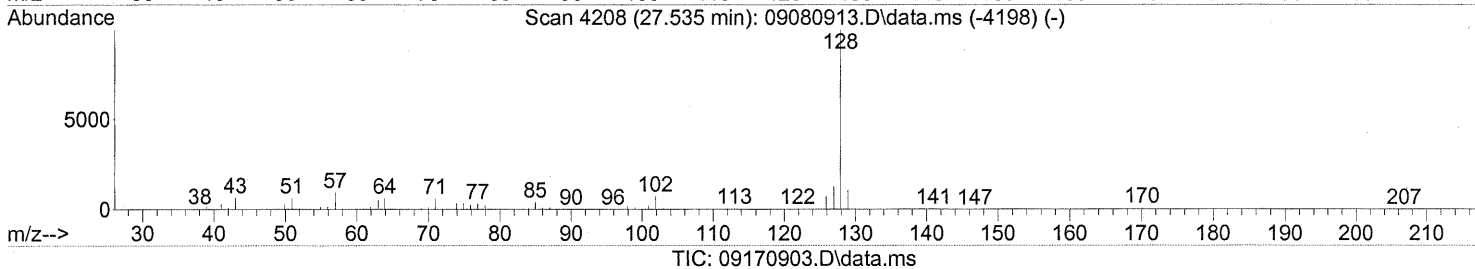
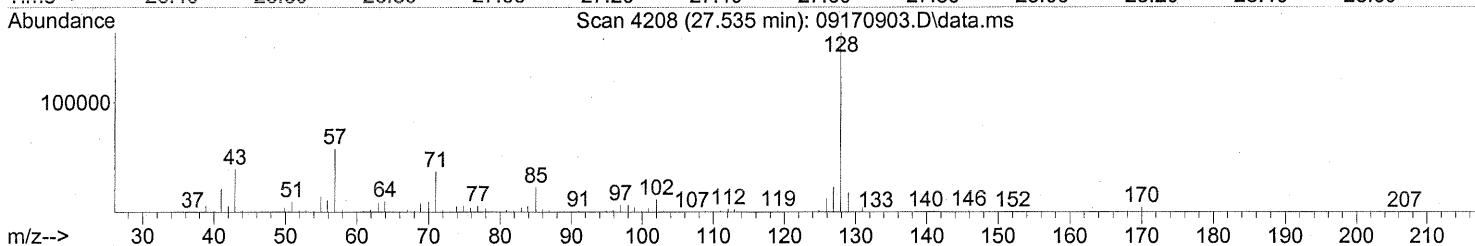
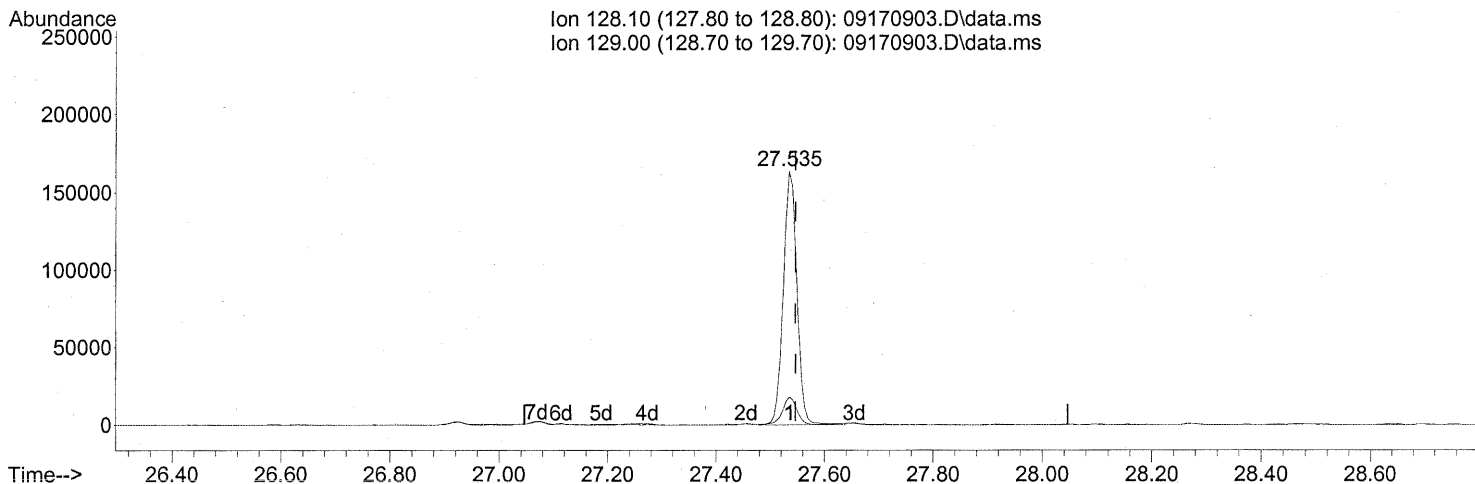
(91) d-Limonene (T)
 25.344min (-0.006) 24.09ng
 response 549890

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	87.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170903.D
 Acq On : 17 Sep 2009 8:41
 Operator : LH
 Sample : P0903145-009 (700mL)
 Misc : Environmental H & E 102718
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 18 10:14:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 3.10ng

response 285954

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.66
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102719
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00906

CAS Project ID: P0903145
CAS Sample ID: P0903145-010
Date Collected: 9/1/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.62	ND	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.62	0.59	0.12	
74-87-3	Chloromethane	0.37	0.12	0.18	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	11	6.2	5.6	3.3	
75-05-8	Acetonitrile	4.2	0.62	2.5	0.37	
107-02-8	Acrolein	1.2	0.62	0.54	0.27	
67-64-1	Acetone	12	6.2	5.1	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.80	0.62	0.33	0.25	M1
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.71	0.12	0.093	0.016	
75-15-0	Carbon Disulfide	ND	0.62	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	1.0	0.62	0.34	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

M1 = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: P Date: 9/22/09 **493**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102719
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00906

CAS Project ID: P0903145
 CAS Sample ID: P0903145-010

Date Collected: 9/1/09
 Date Received: 9/4/09
 Date Analyzed: 9/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	ND	0.62	ND	0.17	
110-54-3	n-Hexane	ND	0.62	ND	0.17	
67-66-3	Chloroform	ND	0.12	ND	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.62	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.33	0.12	0.10	0.039	
56-23-5	Carbon Tetrachloride	0.59	0.12	0.094	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	ND	0.62	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.62	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	0.85	0.62	0.23	0.16	
591-78-6	2-Hexanone	ND	0.62	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	ND	0.62	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102719
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00906

CAS Project ID: P0903145
 CAS Sample ID: P0903145-010

Date Collected: 9/1/09
 Date Received: 9/4/09
 Date Analyzed: 9/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.96	0.62	0.21	0.13	
127-18-4	Tetrachloroethene	0.20	0.12	0.030	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	ND	0.62	ND	0.14	
179601-23-1	m,p-Xylenes	0.86	0.62	0.20	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	ND	0.62	ND	0.14	
95-47-6	o-Xylene	ND	0.62	ND	0.14	
111-84-2	n-Nonane	ND	0.62	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	0.86	0.62	0.15	0.11	
103-65-1	n-Propylbenzene	ND	0.62	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.62	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.62	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.62	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	ND	0.62	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.083	
91-20-3	Naphthalene	ND	0.62	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

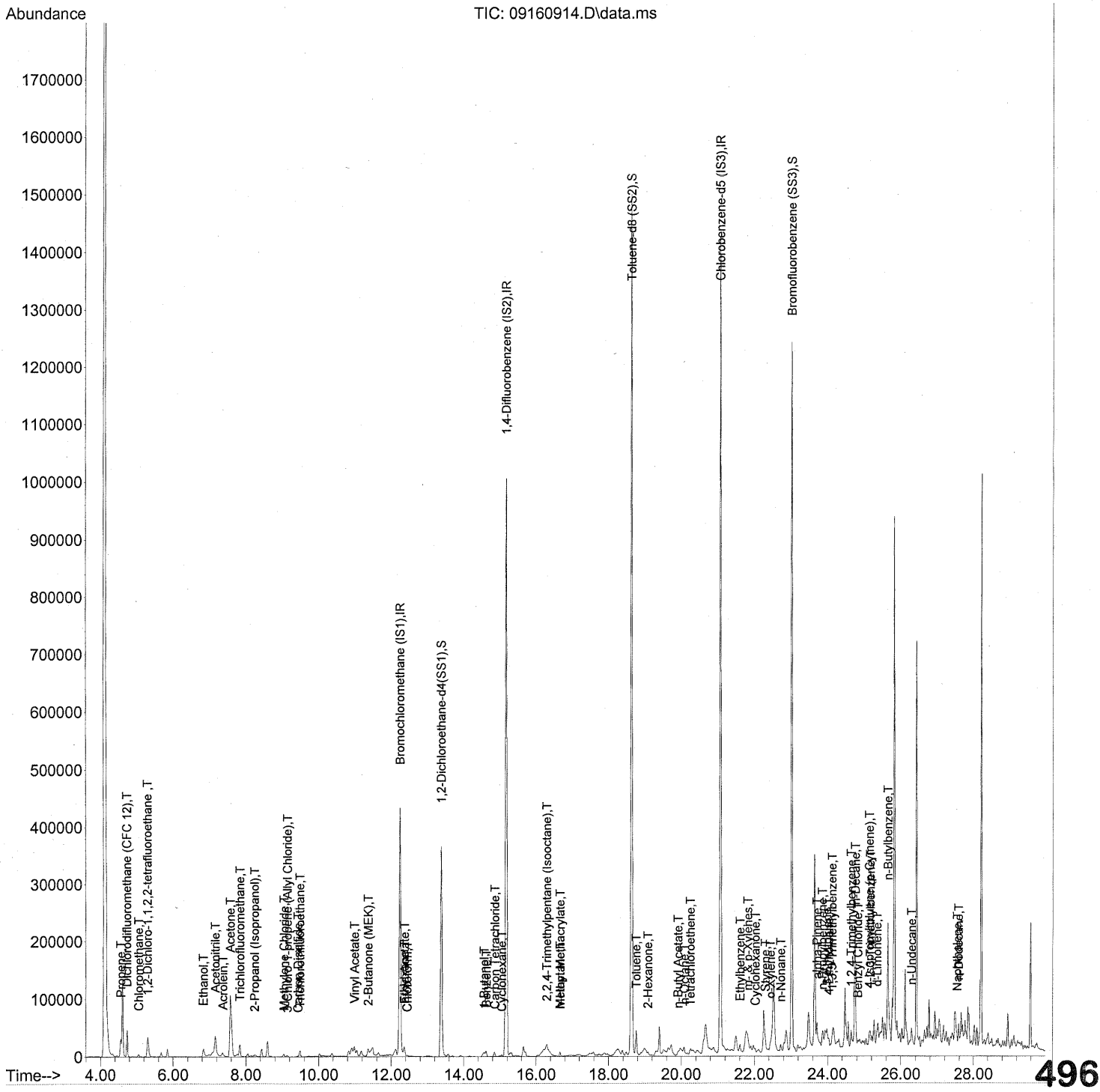
Verified By: _____

Date: 9/22/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:08:46 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719 ✓ ✓
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:08:46 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

LM 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	279015	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1355316	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.06	82	575405	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	373126	24.266	ng	-0.04
Spiked Amount	25.000			Recovery =	97.08%	✓
57) Toluene-d8 (SS2)	18.63	98	1410871	24.495	ng	-0.01
Spiked Amount	25.000			Recovery =	98.00%	✓
73) Bromofluorobenzene (SS3)	23.02	174	547856	26.544	ng	0.00
Spiked Amount	25.000			Recovery =	106.16%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.57	42	3067m	0.270 ng		
3) Dichlorodifluoromethan...	4.73	85	51807	2.385 ng		99
4) Chloromethane	5.05	50	5327	0.299 ng		97
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1308	0.100 ng		72
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.22	94	196	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.83	45	70834m	8.600 ng		
11) Acetonitrile	7.16	41	71009	3.409 ng		97
12) Acrolein	7.37	56	6215	1.014 ng		97
13) Acetone	7.57	58	81642m	9.839 ng		
14) Trichlorofluoromethane	7.83	101	22999	1.143 ng		100
15) 2-Propanol (Isopropanol)	8.24	45	18599m	0.651 ng		M
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.01	59	58	N.D.		
19) Methylene Chloride	9.04	84	2945	0.233 ng		80
20) 3-Chloro-1-propene (Al...	9.14	41	847	0.057 ng	#	40
21) Trichlorotrifluoroethane	9.48	151	5745	0.580 ng	#	82
22) Carbon Disulfide	9.43	76	3090	0.070 ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.88	73	393	N.D.		
26) Vinyl Acetate	10.99	86	7274	2.911 ng	#	1
27) 2-Butanone (MEK)	11.36	72	6482	0.813 ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.36	87	106	N.D.		
30) Ethyl Acetate	12.36	61	1302	0.322 ng		80
31) n-Hexane	12.36	57	6266	0.391 ng		9

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:08:46 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.44	83	1807	0.092	ng	94
34) Tetrahydrofuran (THF)	13.03	72	261	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	602	N.D.		
38) 1,1,1-Trichloroethane	13.94	97	777	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.56	56	9241	0.756	ng	84
41) Benzene	14.62	78	12937	0.268	ng	96
42) Carbon Tetrachloride	14.86	117	6994	0.481	ng	97
43) Cyclohexane	15.05	84	1422	0.081	ng	# 74
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.11	83	107	N.D.		
47) Trichloroethene	16.20	130	590	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	10519	0.216	ng	61
50) Methyl Methacrylate	16.66	100	659	0.119	ng	# 1
51) n-Heptane	16.66	71	2361	0.191	ng	98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	536	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.75	91	37131	0.691	ng	99
59) 2-Hexanone	19.08	43	3197	0.123	ng	96
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	3681	0.124	ng	78
63) n-Octane	20.08	57	7862	0.779	ng	# 40
64) Tetrachloroethene	20.24	166	2734	0.165	ng	100
65) Chlorobenzene	21.12	112	976	N.D.		
66) Ethylbenzene	21.60	91	10585	0.179	ng	100
67) m- & p-Xylenes	21.82	91	32125	0.696	ng	81
68) Bromoform	21.92	173	308	N.D.		
69) Styrene	22.29	104	2813	0.074	ng	88
70) o-Xylene	22.44	91	9403	0.199	ng	95
71) n-Nonane	22.71	43	5480	0.239	ng	# 89
72) 1,1,2,2-Tetrachloroethane	22.44	83	624	N.D.		
74) Cumene	23.20	105	2175	N.D.		
75) alpha-Pinene	23.70	93	21135	0.697	ng	95
76) n-Propylbenzene	23.85	91	9188	0.122	ng	60
77) 3-Ethyltoluene	23.97	105	10391	0.170	ng	77
78) 4-Ethyltoluene	24.03	105	4156	0.069	ng	89
79) 1,3,5-Trimethylbenzene	24.12	105	2628	0.052	ng	84

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:08:46 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

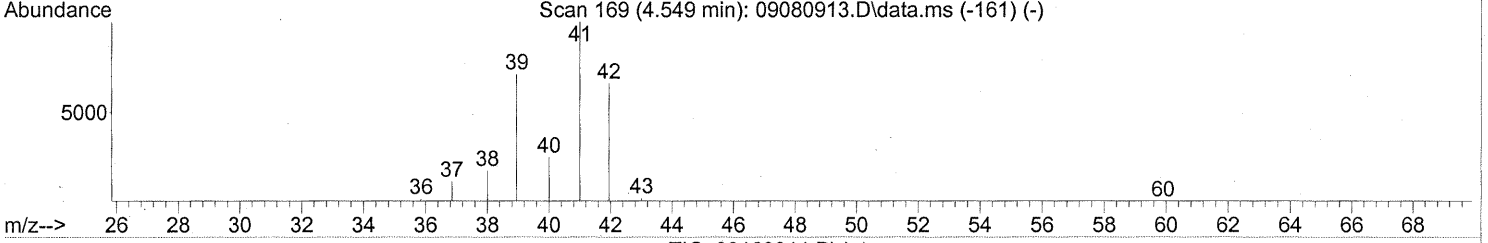
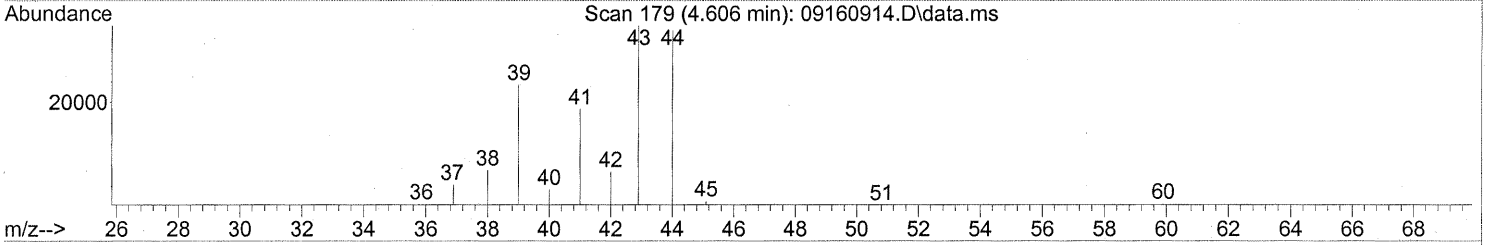
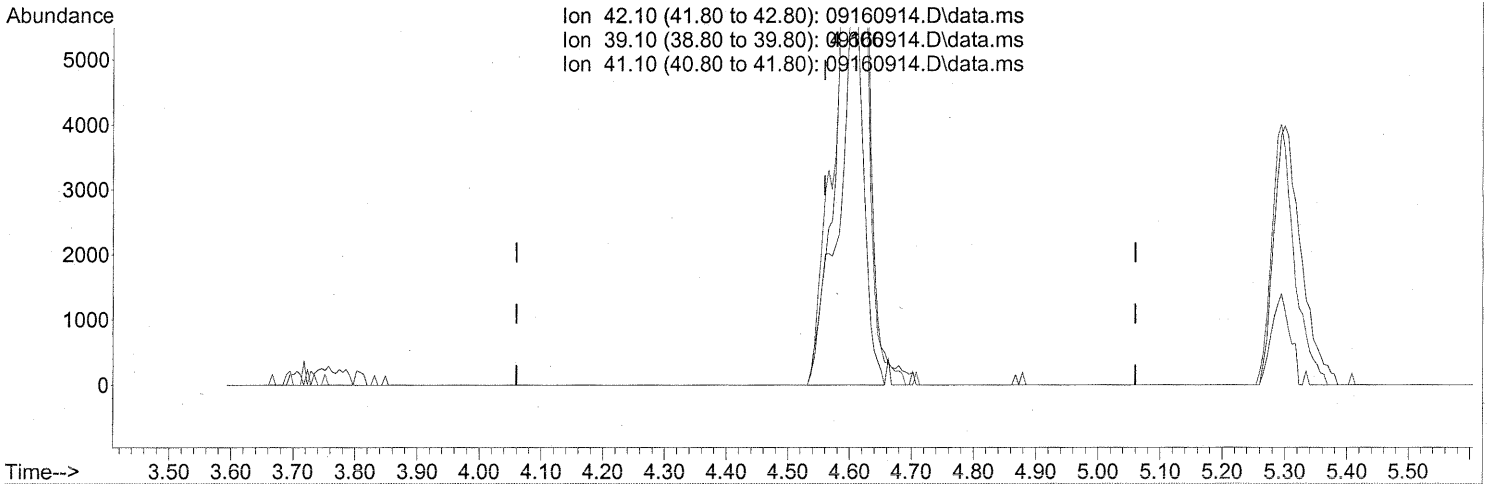
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.32	118	281	N.D.		
81) 2-Ethyltoluene	24.36	105	3091	N.D.		
82) 1,2,4-Trimethylbenzene	24.64	105	9276	0.173 ng		96
83) n-Decane	24.75	57	8042	0.287 ng	#	75
84) Benzyl Chloride	24.81	91	4689	0.112 ng	#	56
85) 1,3-Dichlorobenzene	24.83	146	55	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	1022	N.D.		
87) sec-Butylbenzene	24.97	105	564	N.D.		
88) 4-Isopropyltoluene (p-...	25.13	119	16896	0.249 ng	#	71
89) 1,2,3-Trimethylbenzene	25.16	105	3404	0.065 ng		75
90) 1,2-Dichlorobenzene	25.33	146	59	N.D.		
91) d-Limonene	25.34	68	5744	0.299 ng		92
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	11912	0.369 ng		89
94) 1,2,4-Trichlorobenzene	27.39	180	946	N.D.		
95) Naphthalene	27.53	128	6657	0.086 ng		98
96) n-Dodecane	27.57	57	9710	0.305 ng	#	26
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.02	55	5606	0.282 ng		94
99) tert-Butylbenzene	24.42	119	1404	N.D.		
100) n-Butylbenzene	25.65	91	8414	0.157 ng	#	58

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160914.D
Acq On : 17 Sep 2009 6:39
Operator : LH
Sample : P0903145-010 (1000mL)
Misc : Environmental H & E 102719
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160914.D\data.ms

(2) Propene (T)
4.606min (+0.046) 1.53ng
response 17349

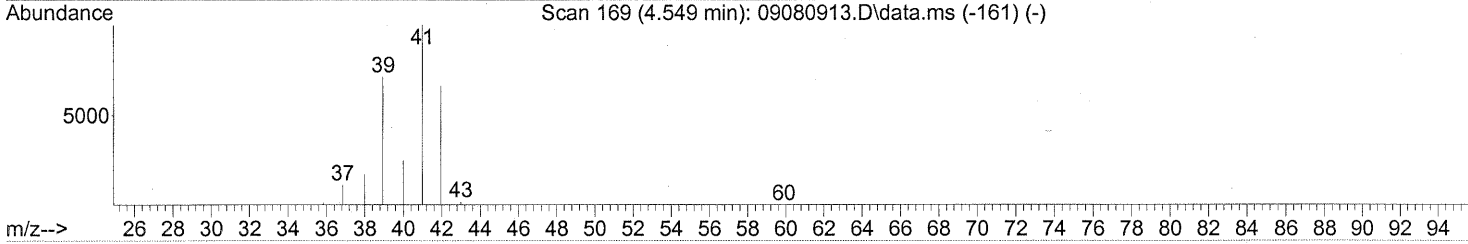
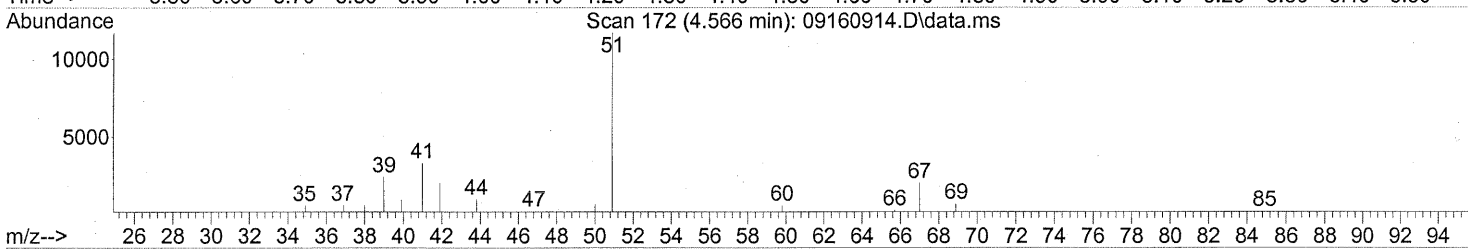
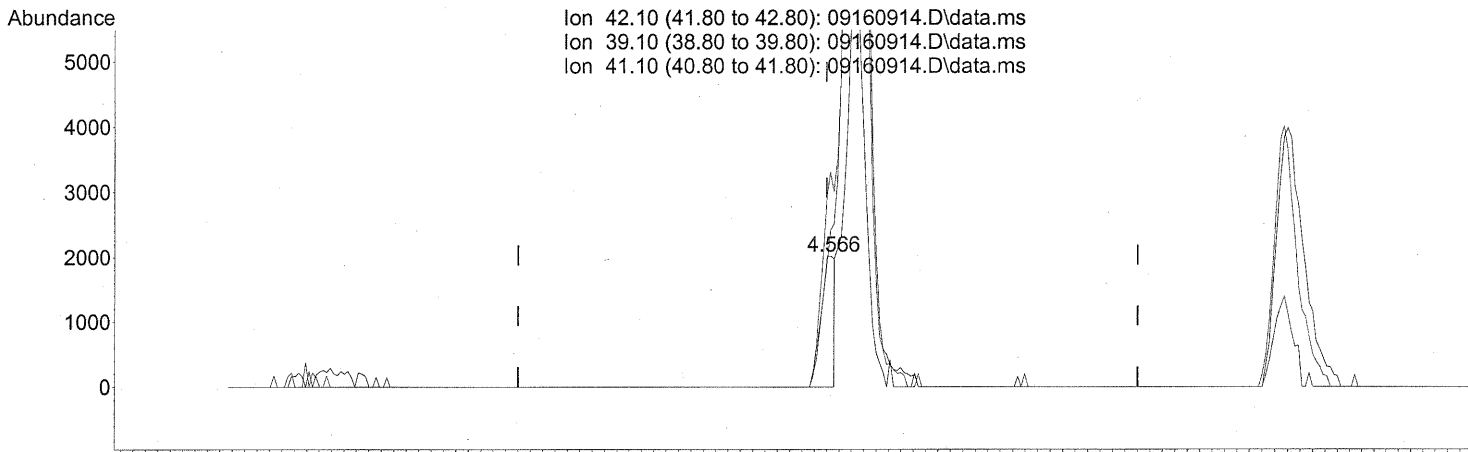
Ion	Exp%	Act%
42.10	100	100
39.10	109.30	296.14#
41.10	152.10	258.14#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.566min (+0.006) 0.27ng m

< RL

*SH → IC
 LH 9/21/09
 Com 9/21/09*

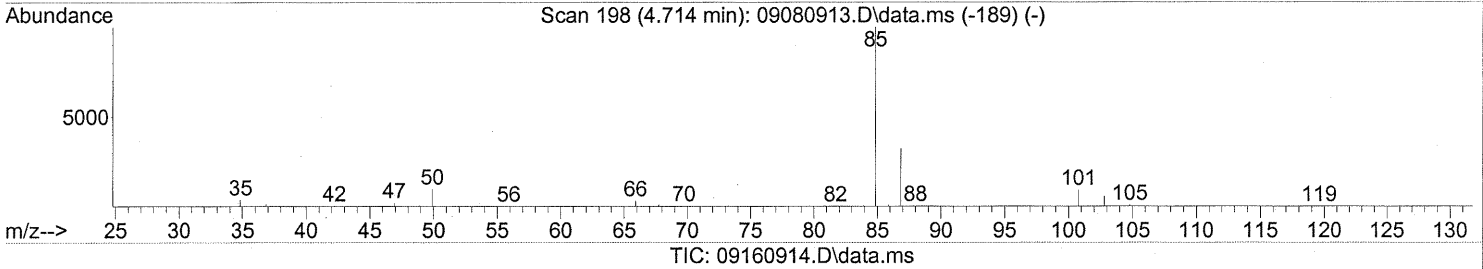
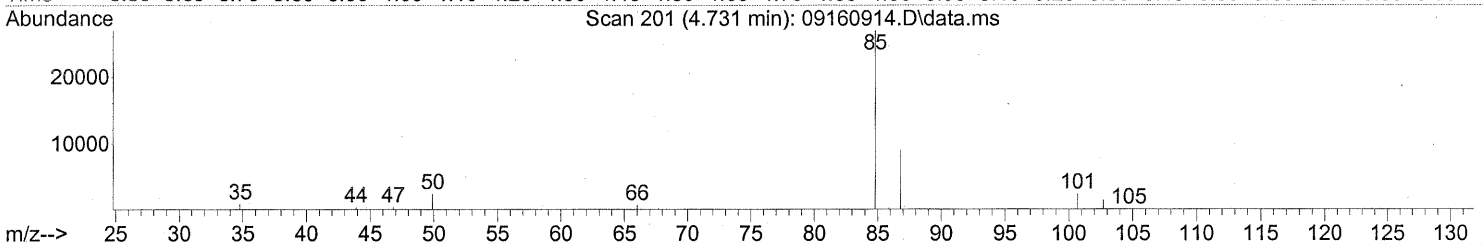
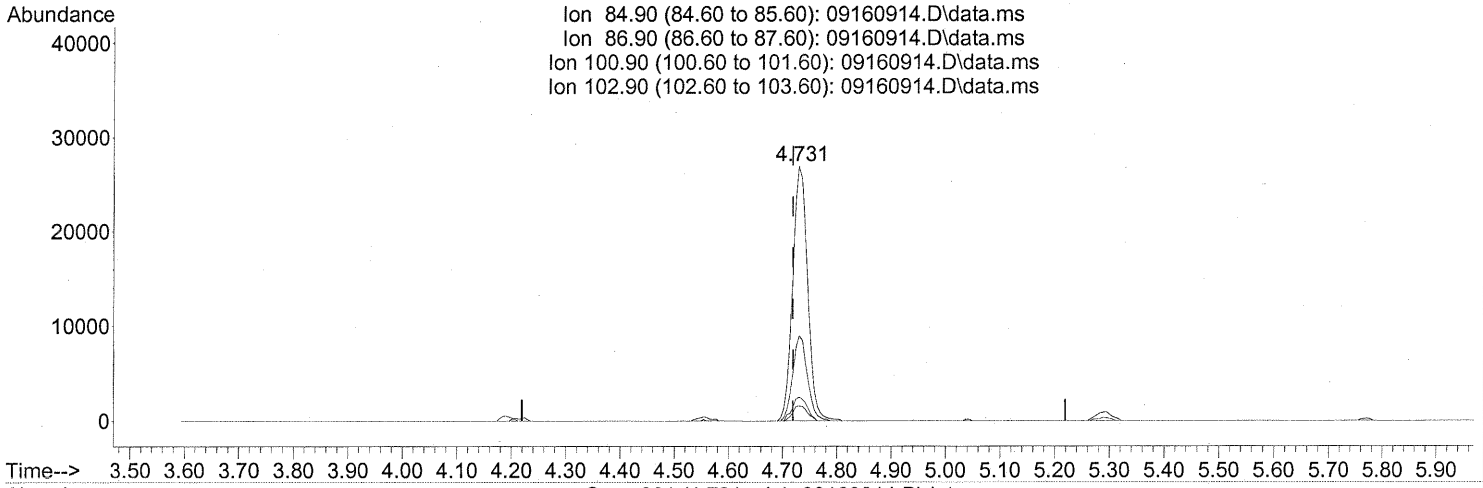
response 3067

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	1675.19#
41.10	152.10	1460.22#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.731min (+0.011) 2.39ng

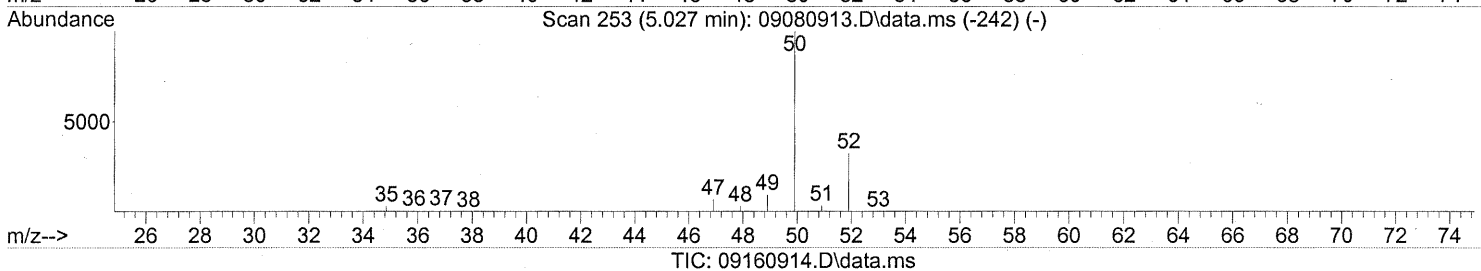
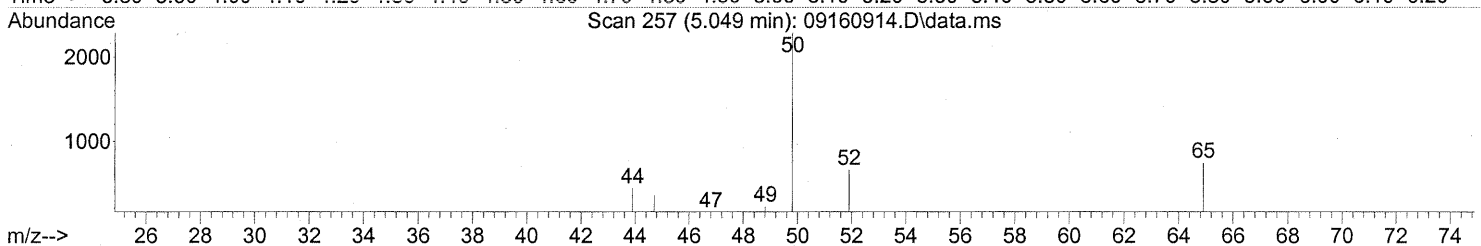
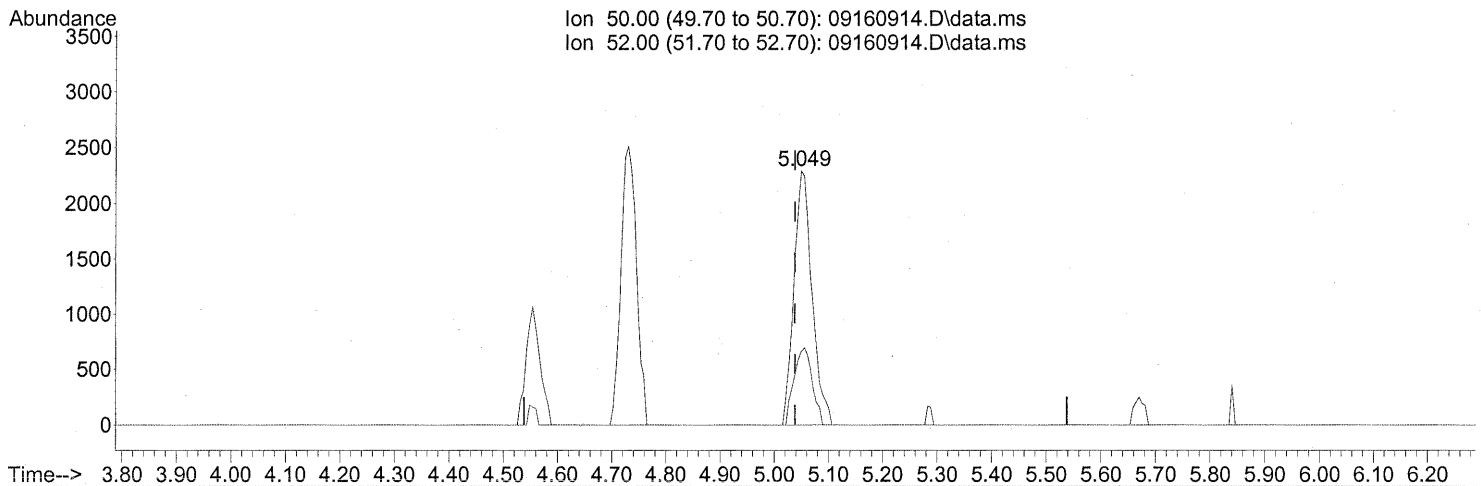
response 51807

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.84
100.90	8.60	9.30
102.90	5.90	5.73

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.049min (+0.011) 0.30ng

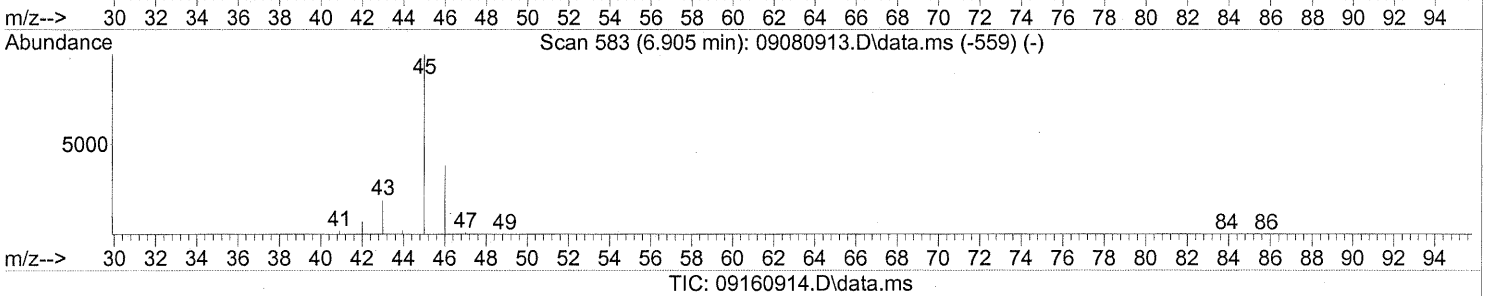
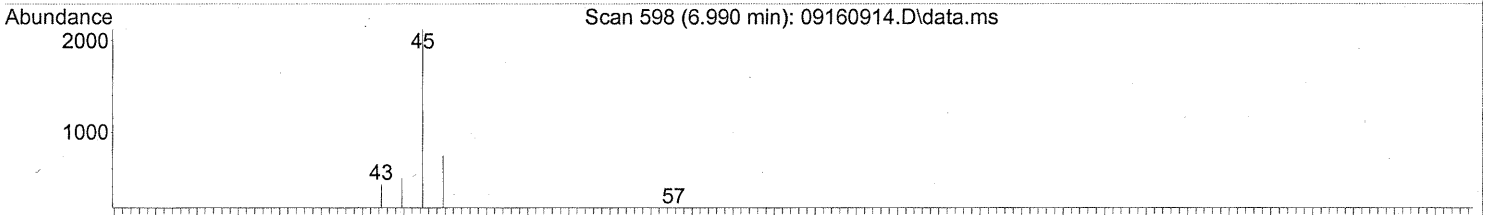
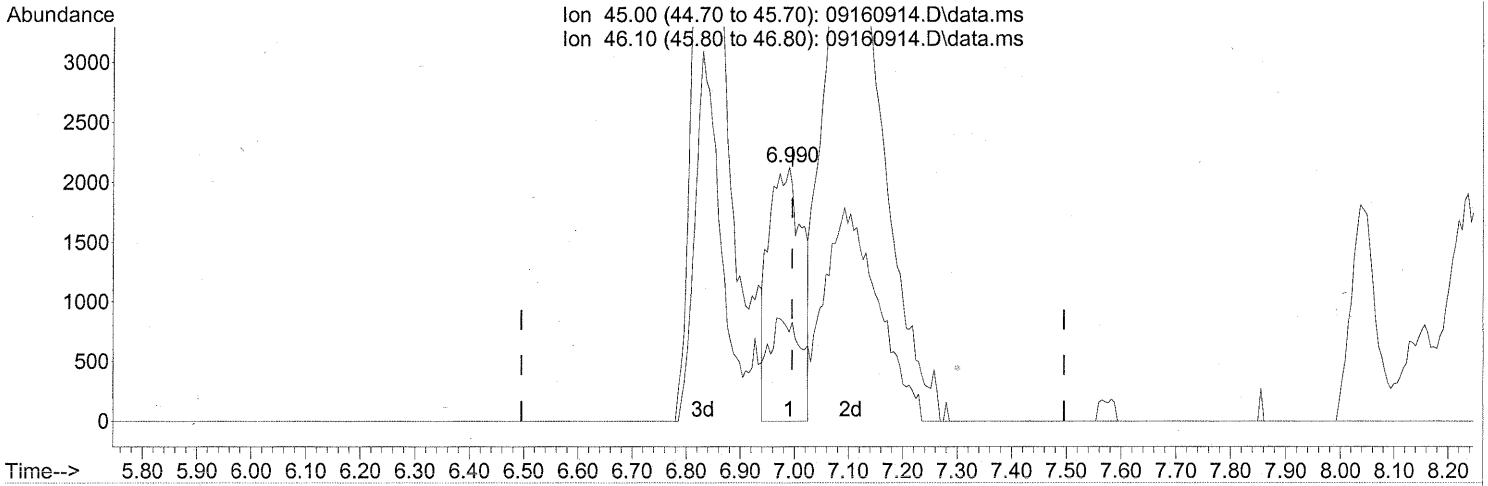
response 5327

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	30.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.990min (-0.006) 1.10ng

response 9094

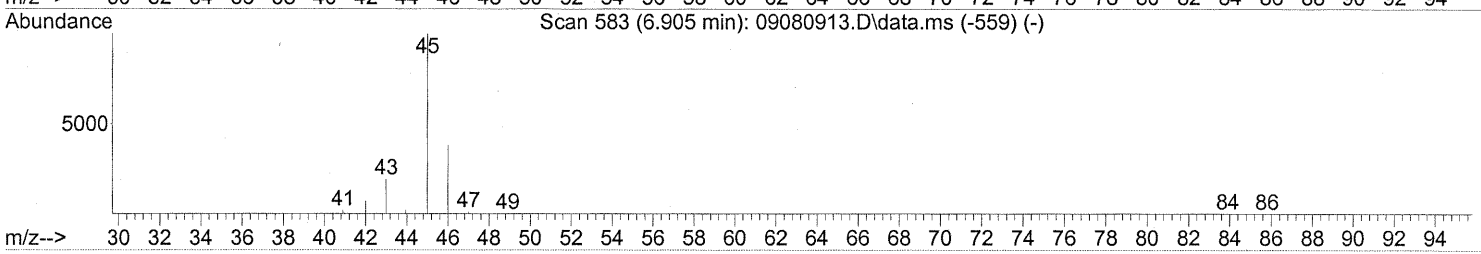
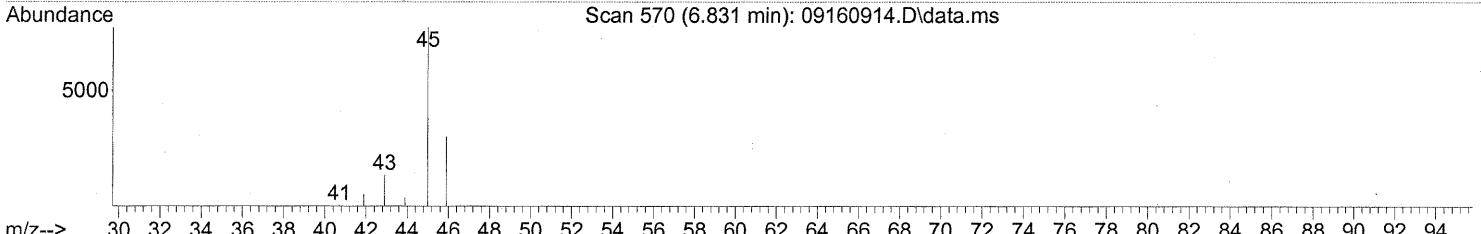
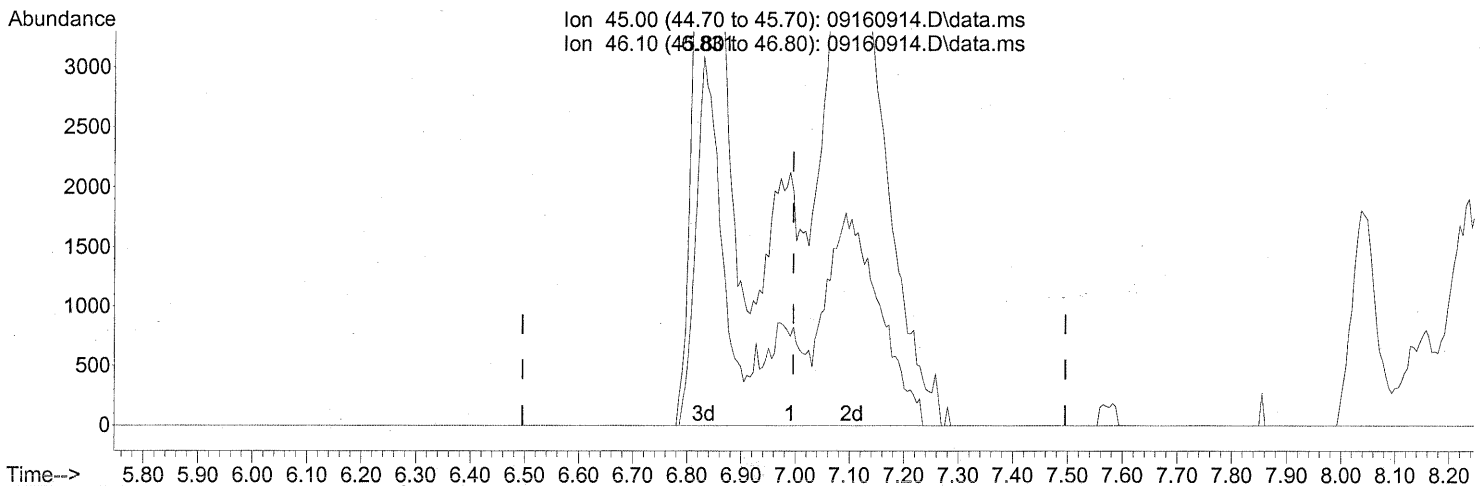
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.831min (-0.165) 8.60ng m
 response 70834

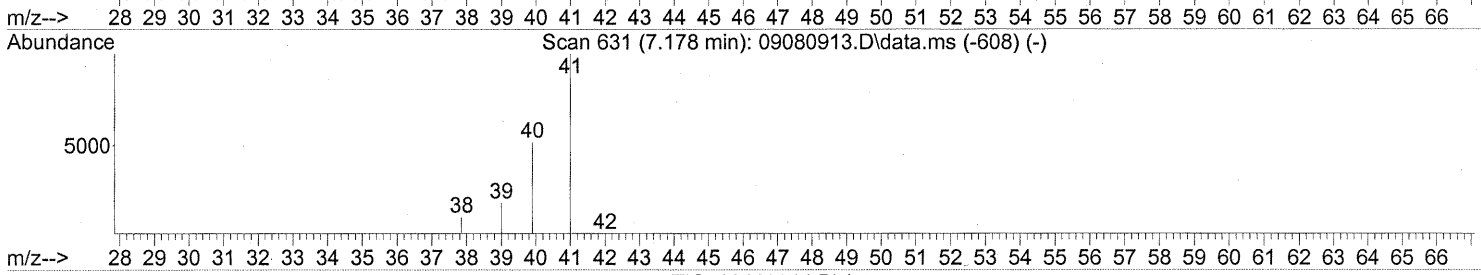
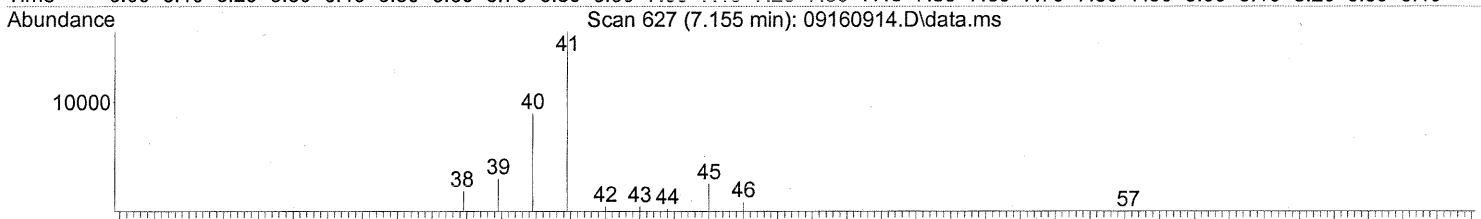
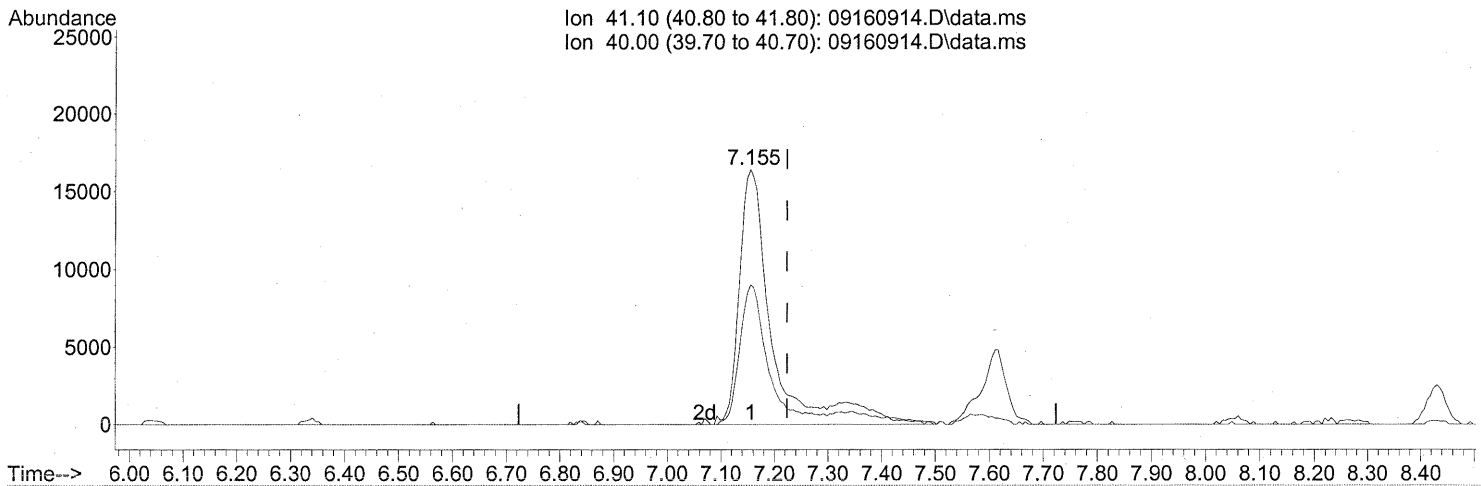
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

*SP → IC
 in 9/21/09
 Cam 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

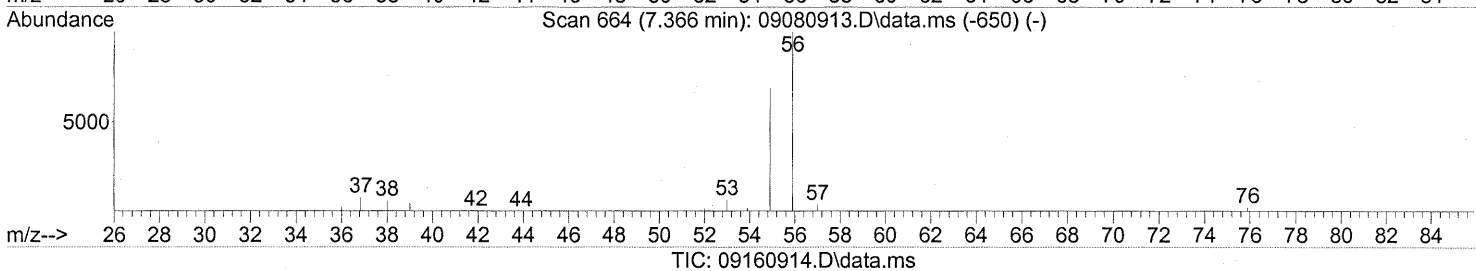
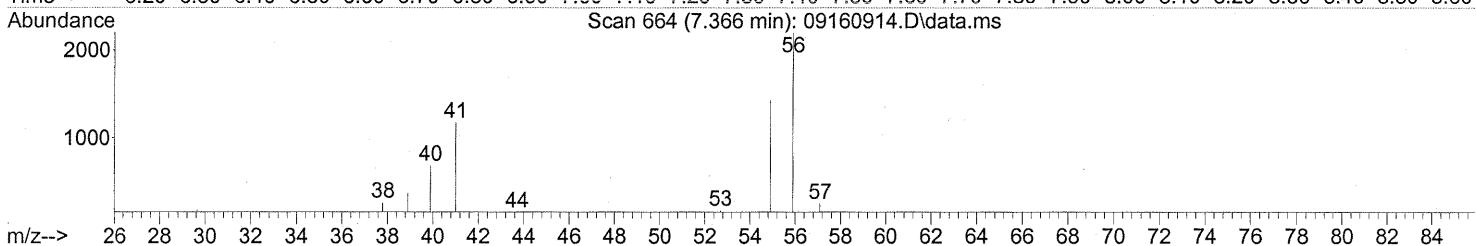
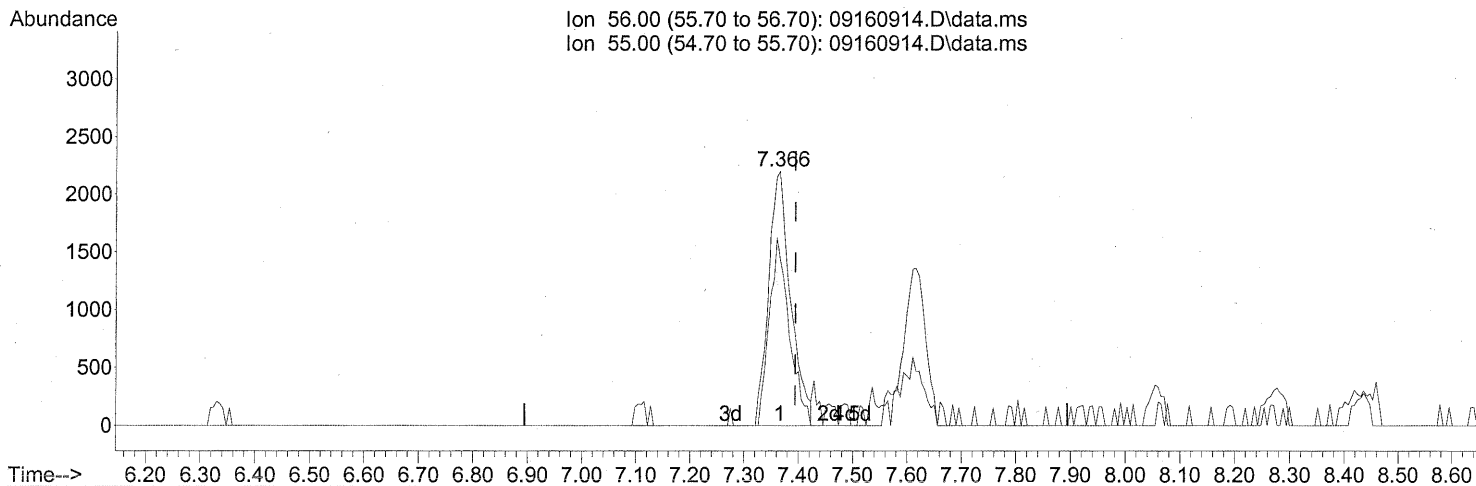
7.155min (-0.068) 3.41ng
 response 71009

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	54.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.366min (-0.028) 1.01ng

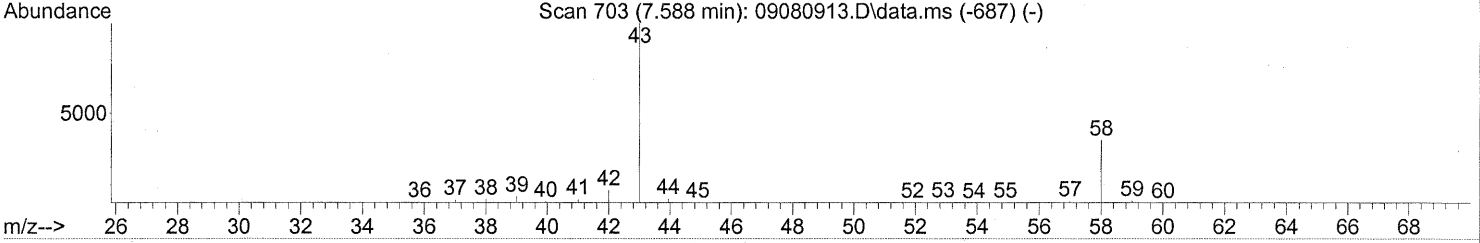
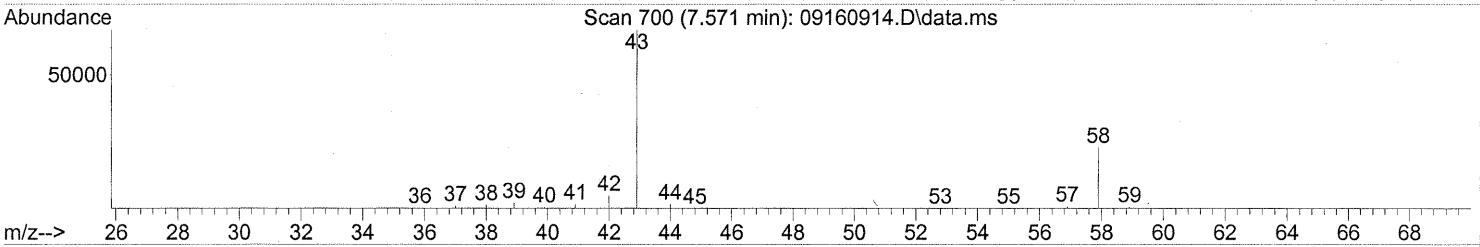
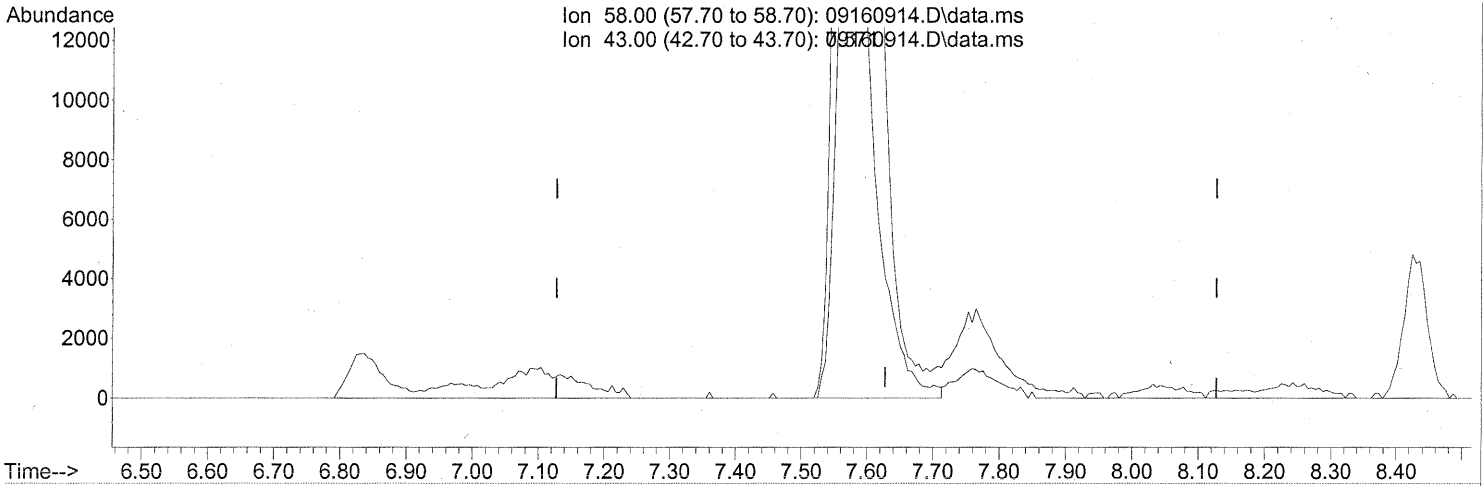
response 6215

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	67.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)
 7.571min (-0.057) 9.29ng
 response 77116

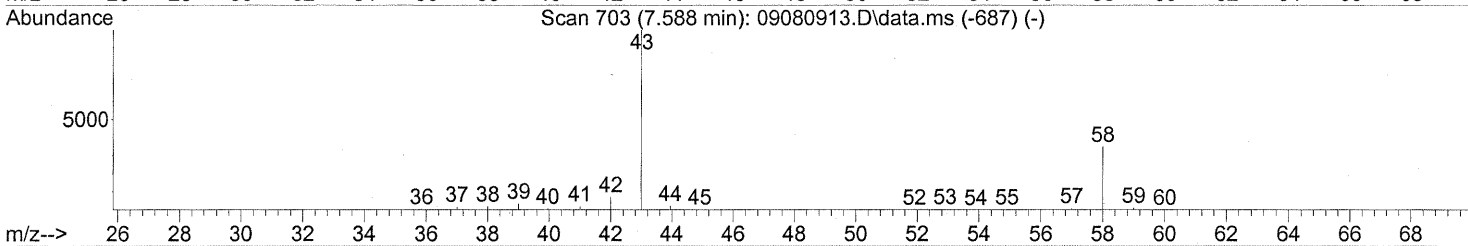
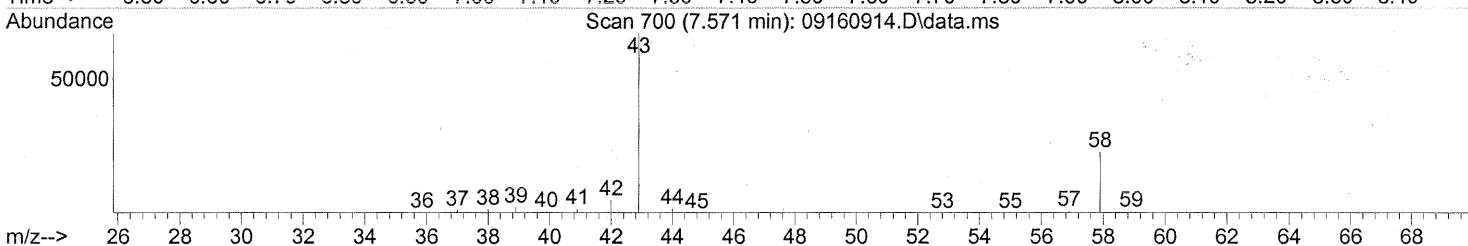
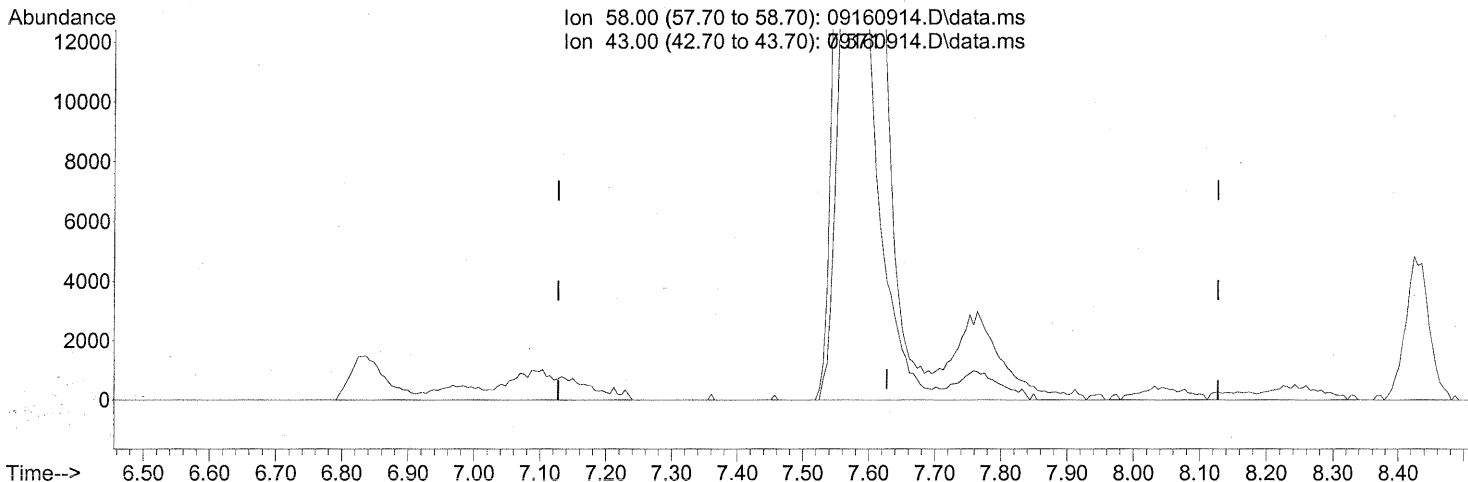
PT

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	286.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(13) Acetone (T)
 7.571min (-0.057) 9.84ng m
 response 81642

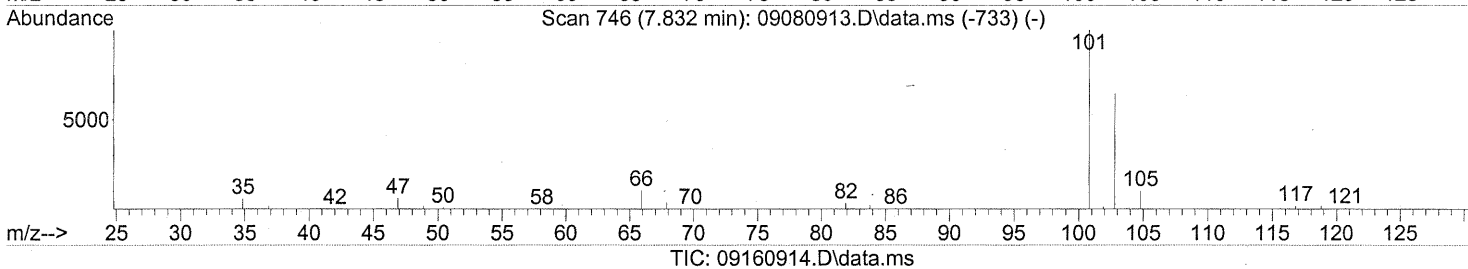
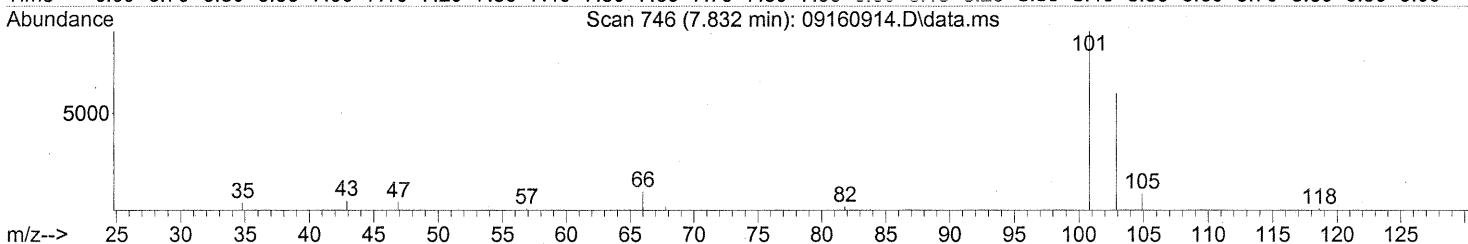
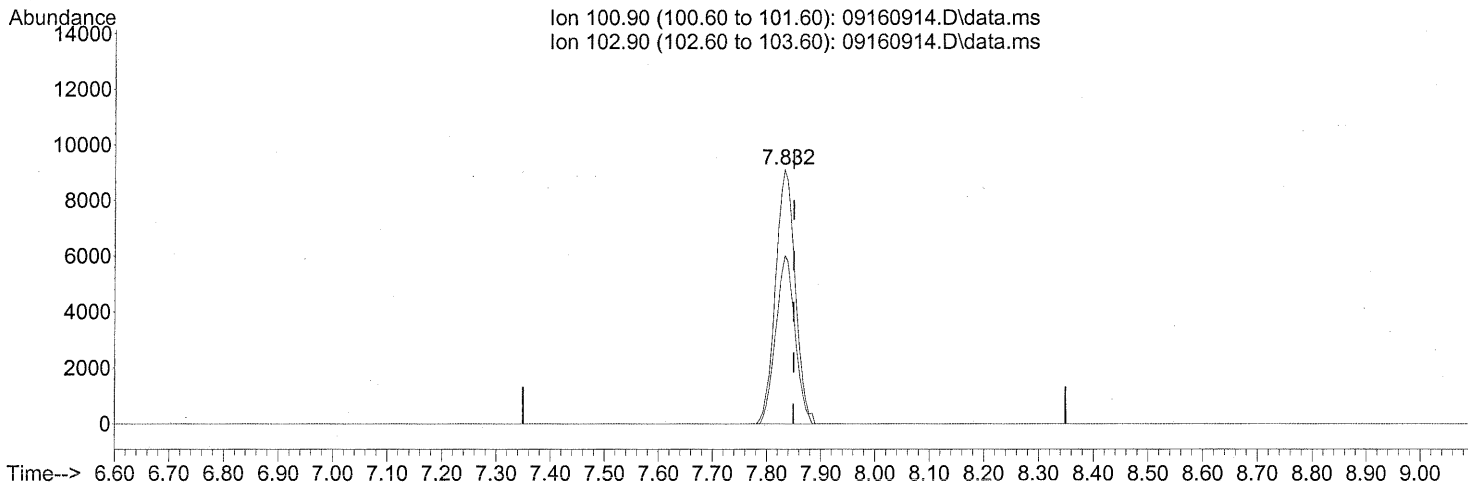
Ion	Exp%	Act%
58.00	100	100
43.00	310.70	270.80#
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
LH 9/21/09
com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

7.832min (-0.017) 1.14ng

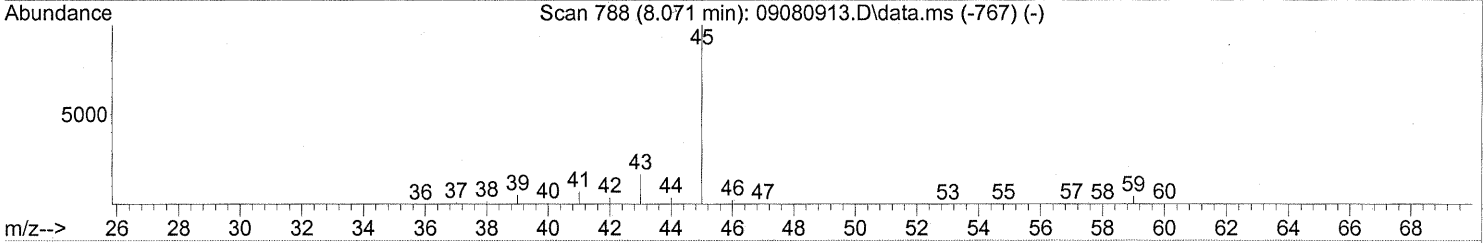
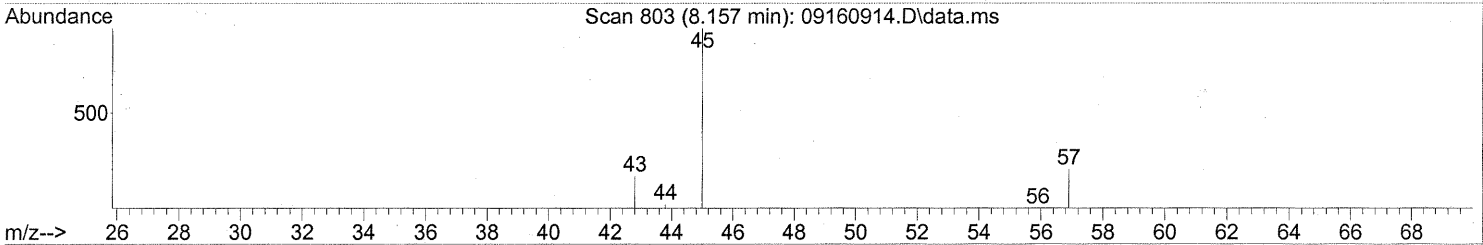
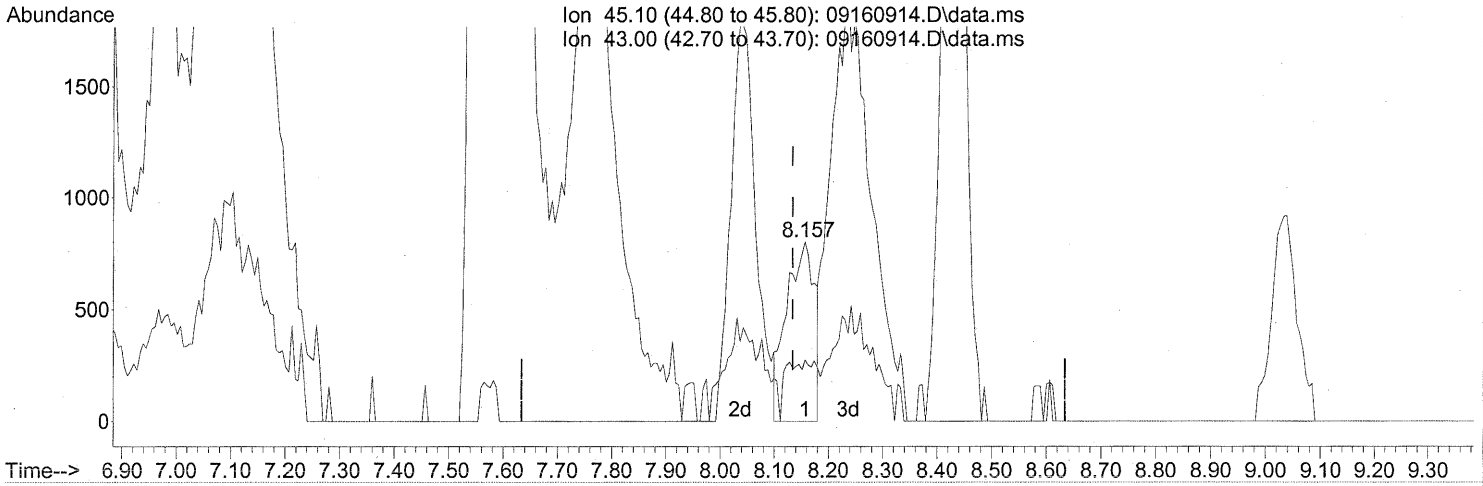
response 22999

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.157min (+0.023) 0.10ng

response 2856

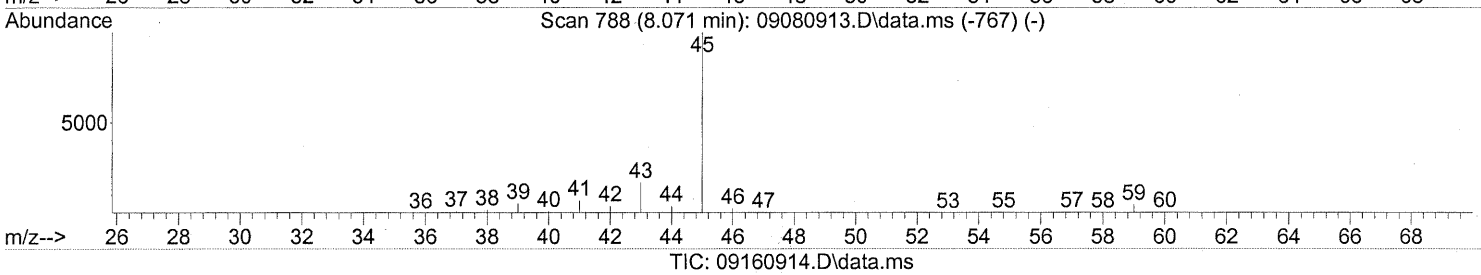
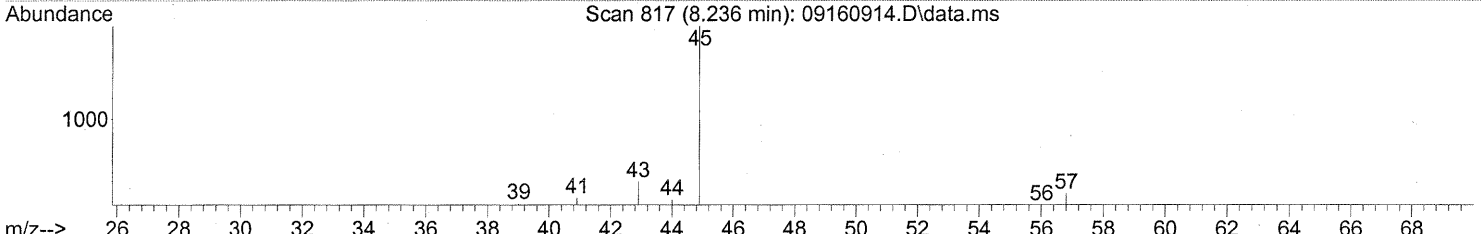
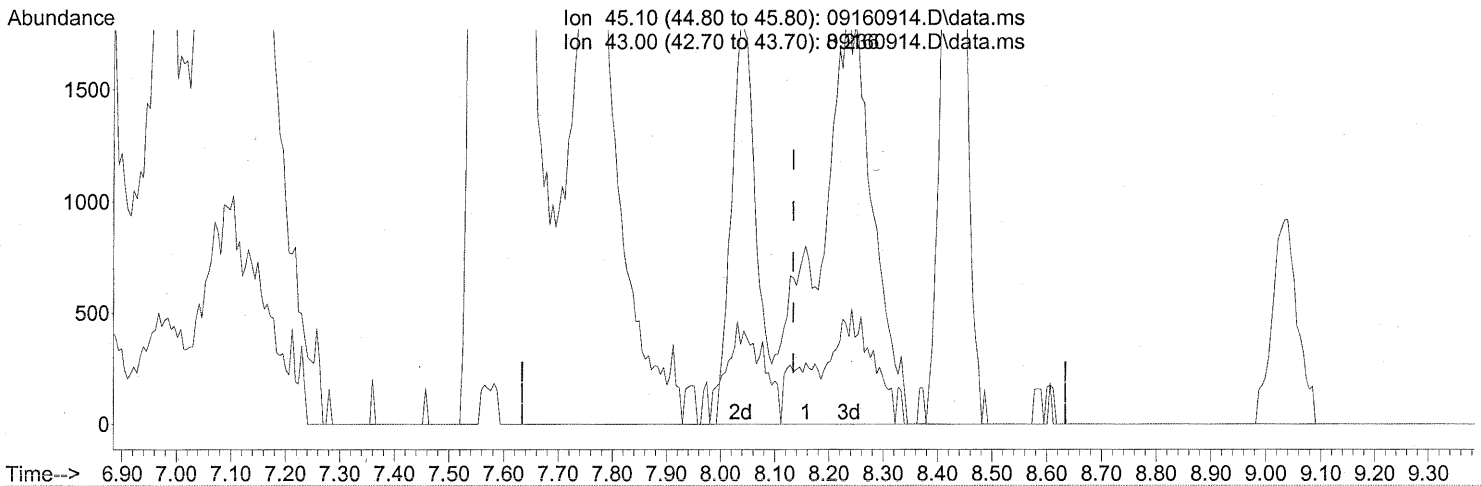
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	38.13#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.236min (+0.102) 0.65ng m

response 18599

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	5.86
0.00	0.00	0.00
0.00	0.00	0.00

M

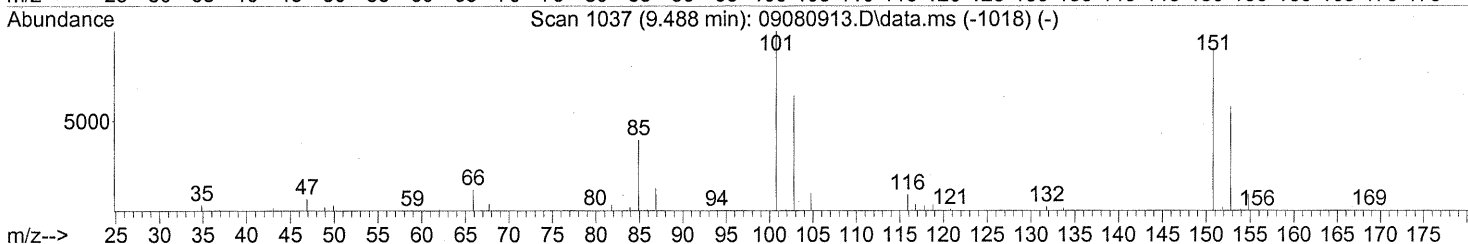
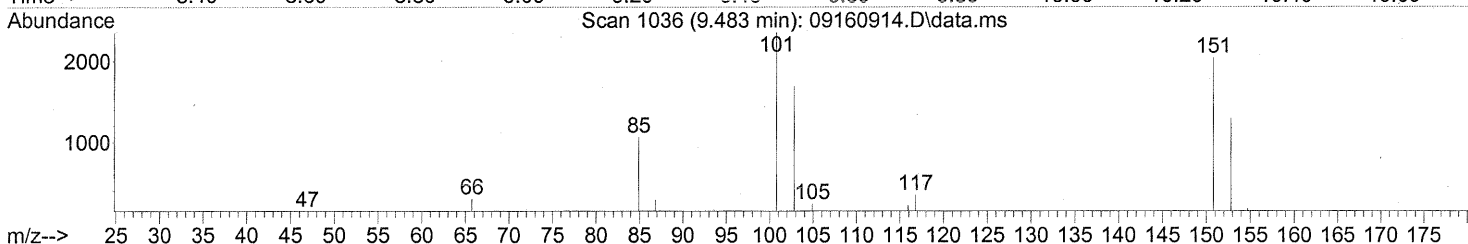
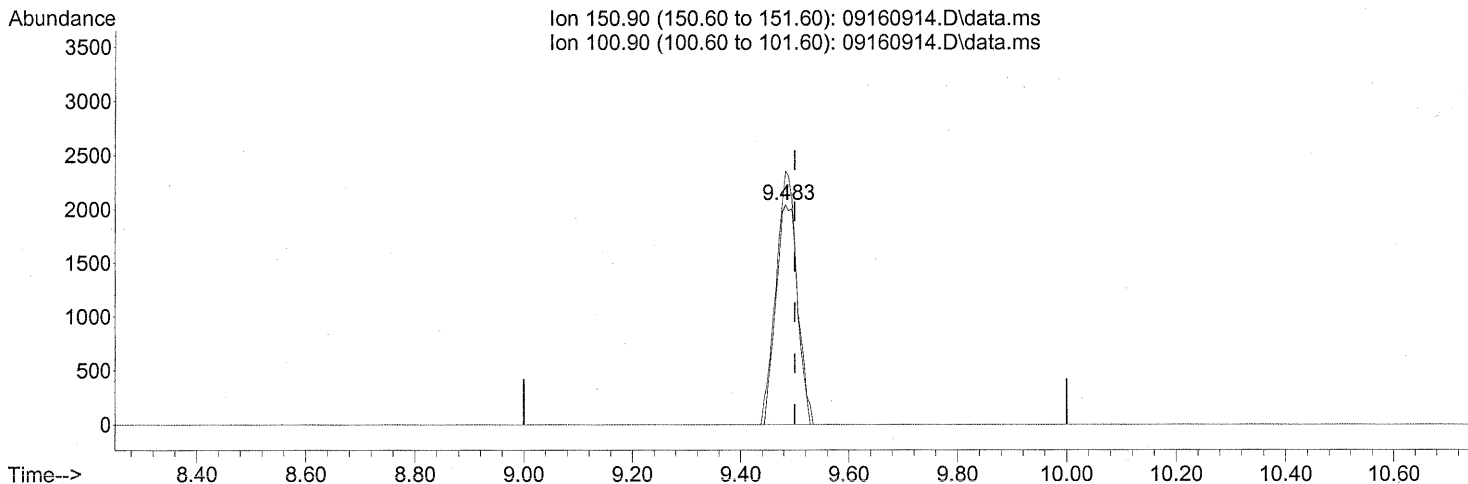
*SP → IC
 in 9/21/09*

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.483min (-0.017) 0.58ng

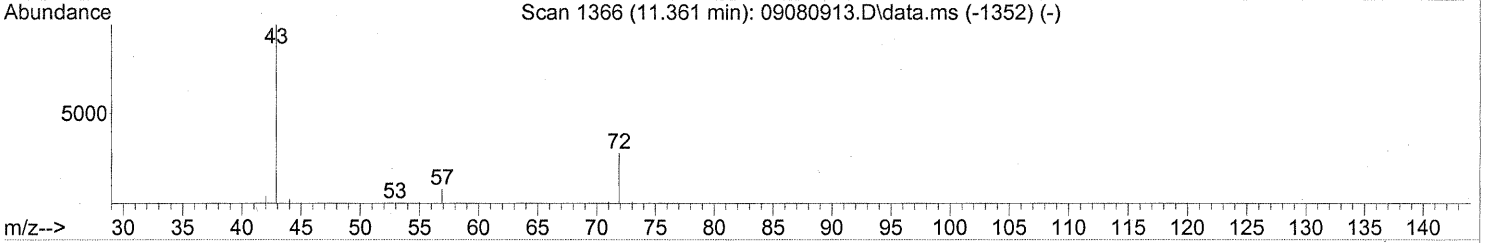
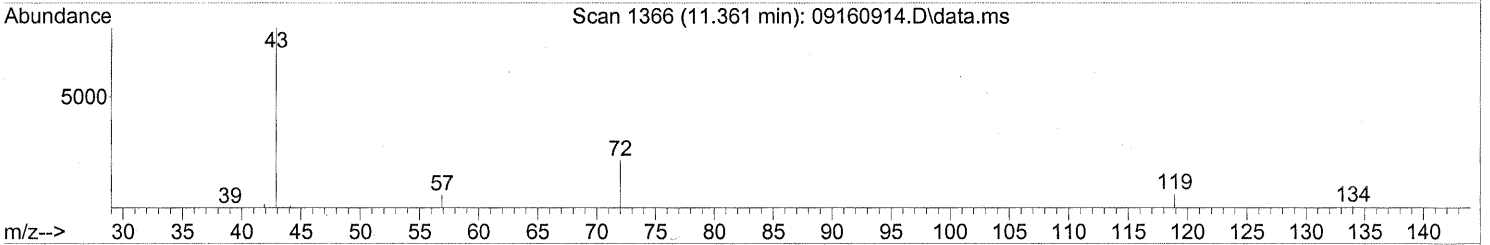
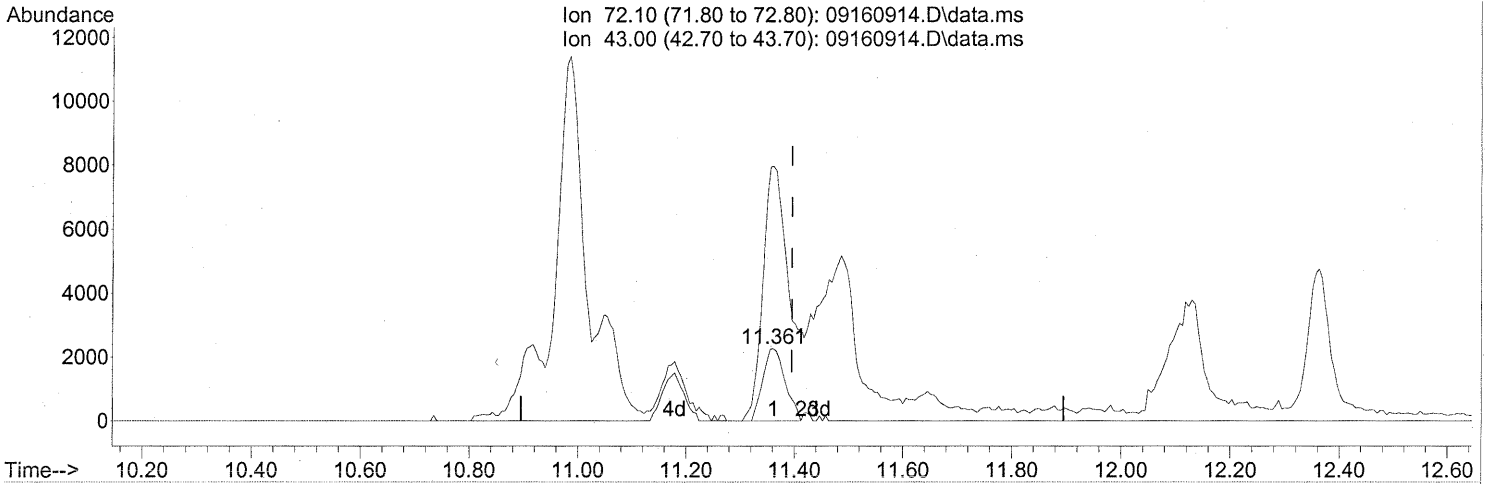
response 5745

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	108.01#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(27) 2-Butanone (MEK) (T)

11.361min (-0.034) 0.81ng

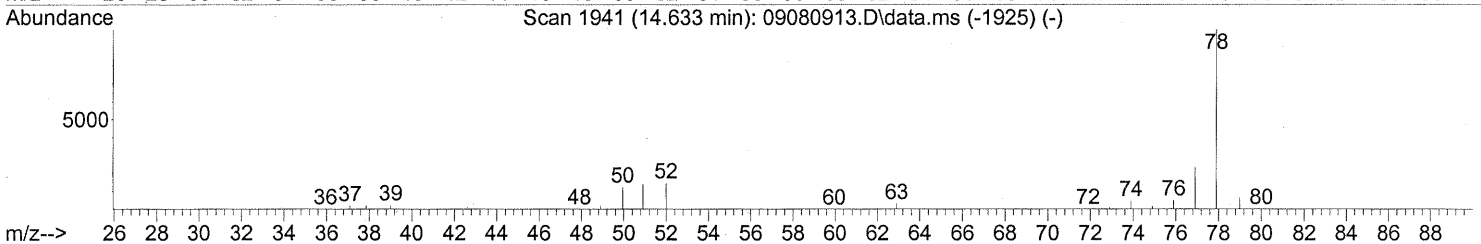
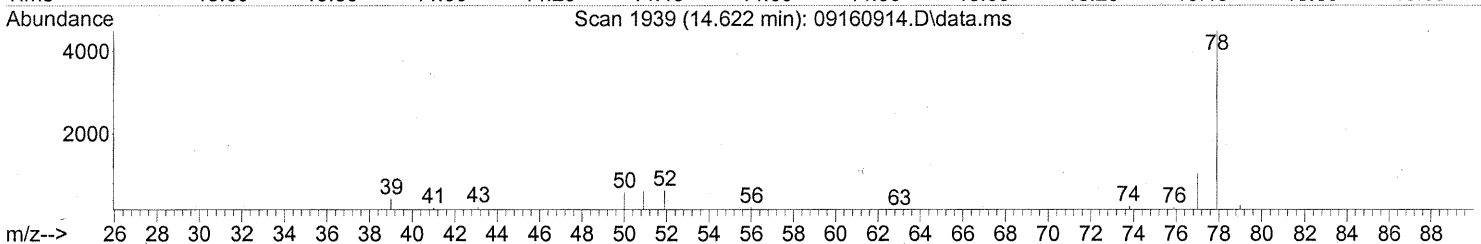
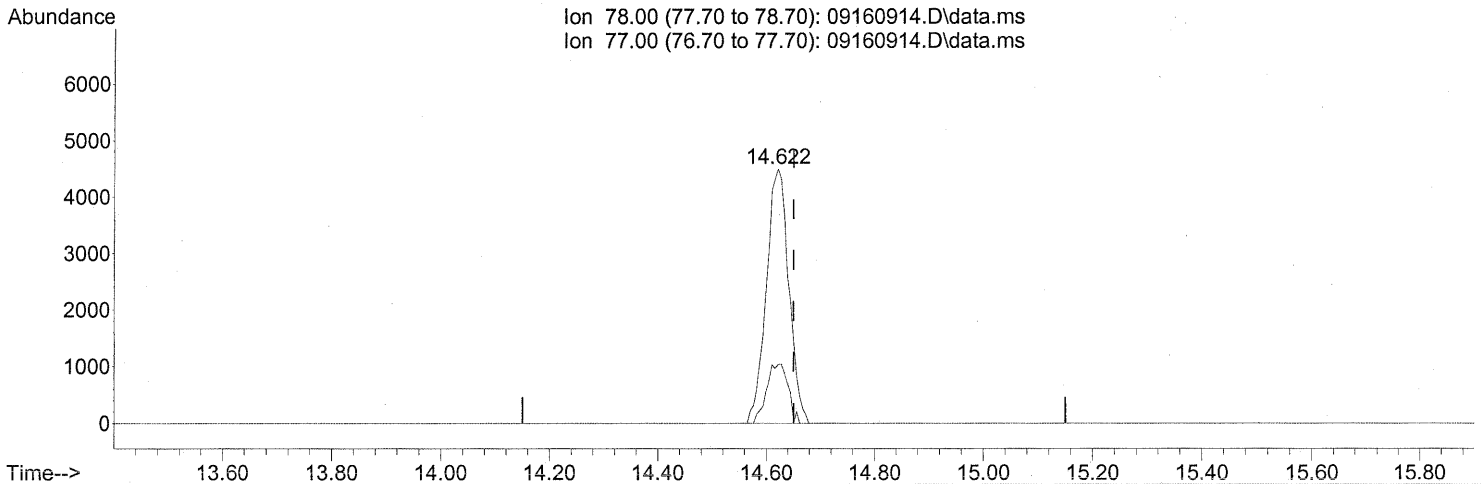
response 6482

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	908.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160914.D
Acq On : 17 Sep 2009 6:39
Operator : LH
Sample : P0903145-010 (1000mL)
Misc : Environmental H & E 102719
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160914.D\data.ms

(41) Benzene (T)

14.622min (-0.028) 0.27ng

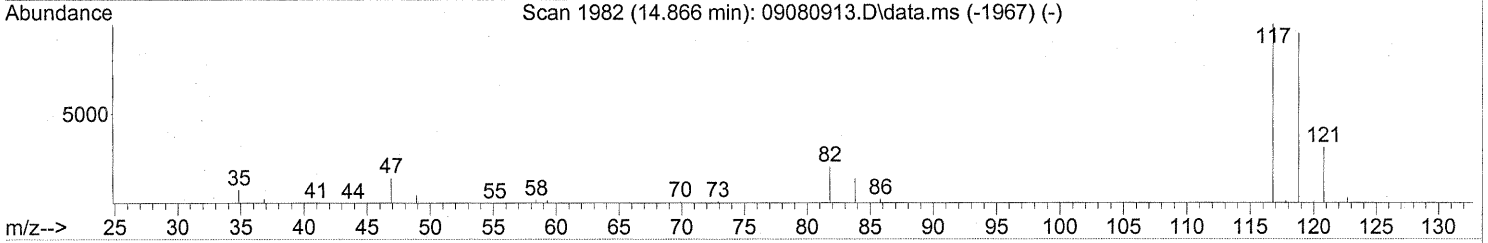
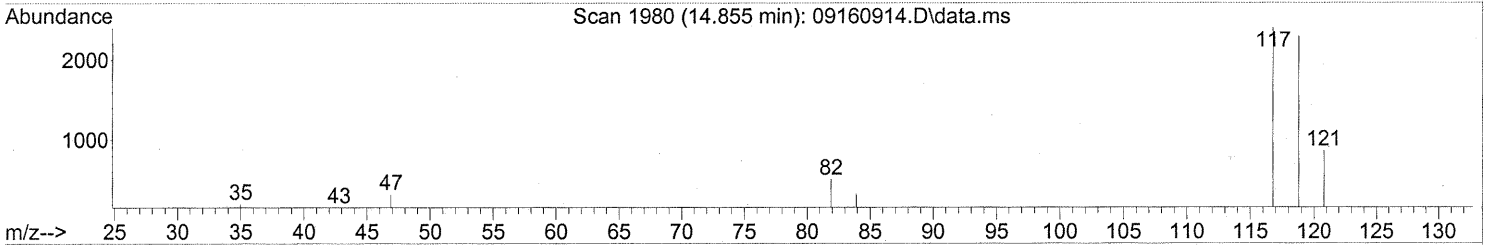
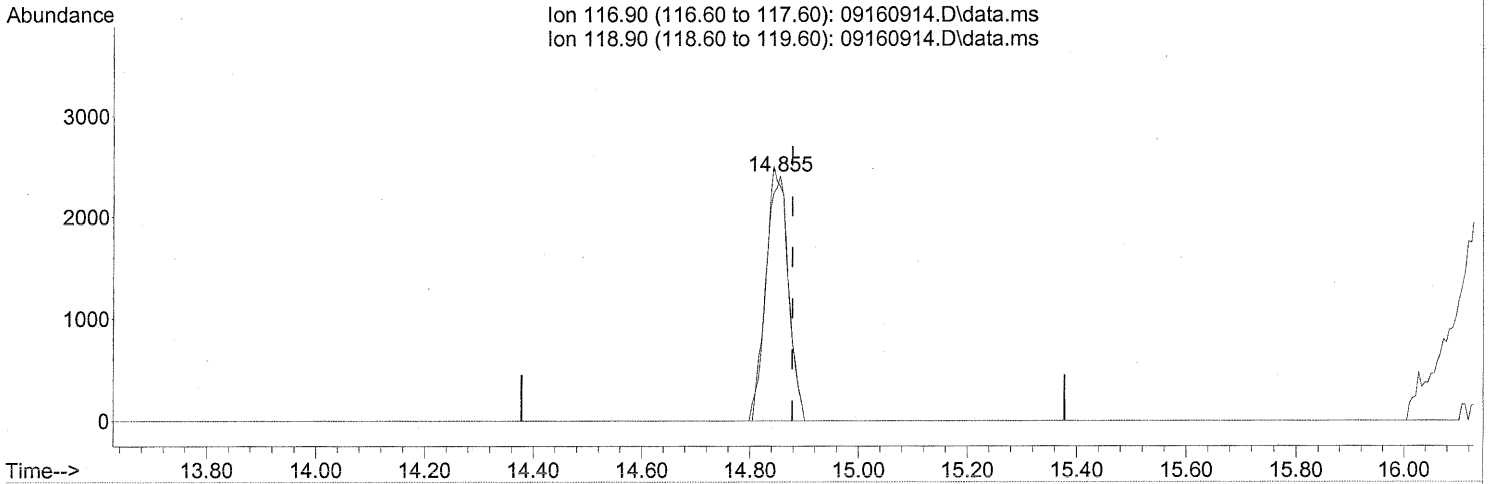
response 12937

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	22.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.48ng

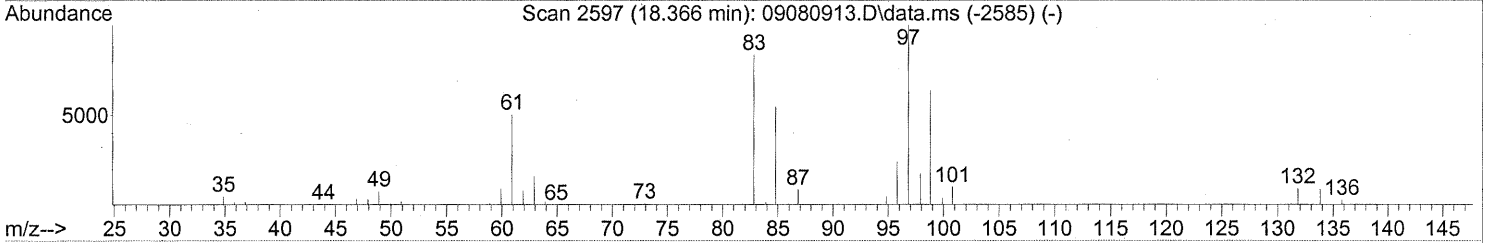
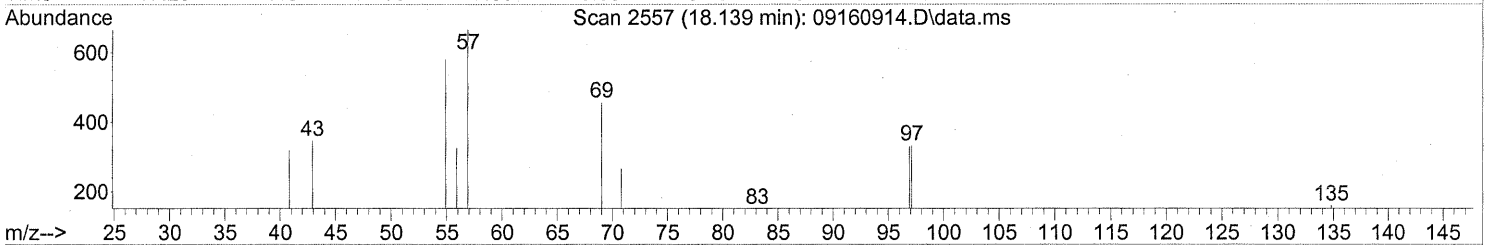
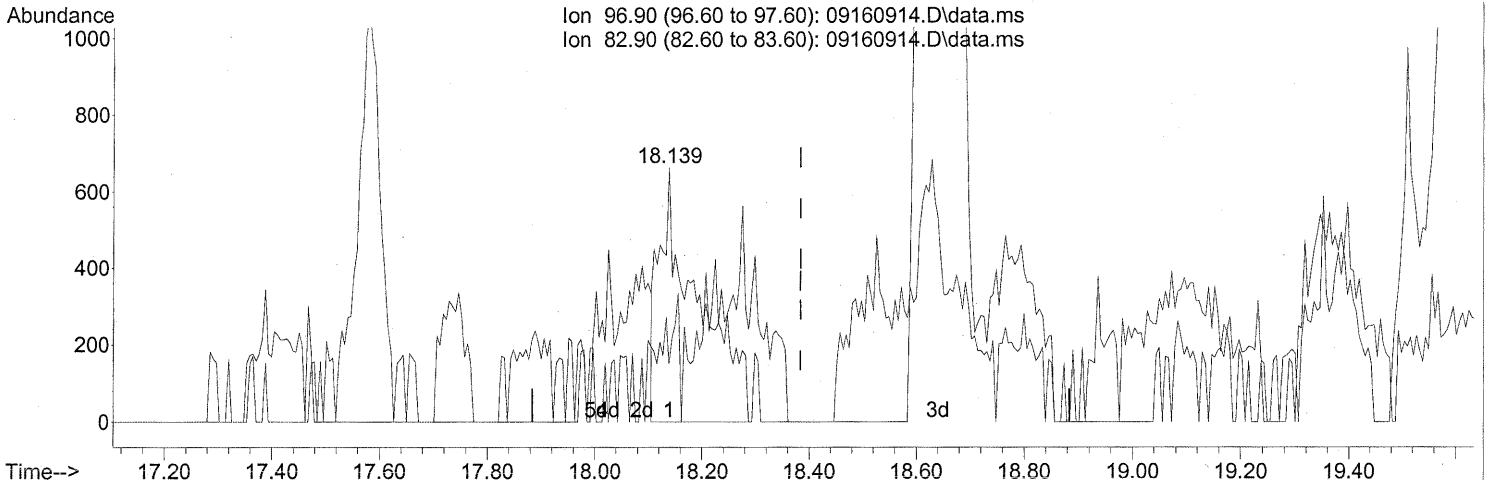
response 6994

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	101.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.139min (-0.245) 0.27ng

response 3330

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	2.04#
0.00	0.00	0.00
0.00	0.00	0.00

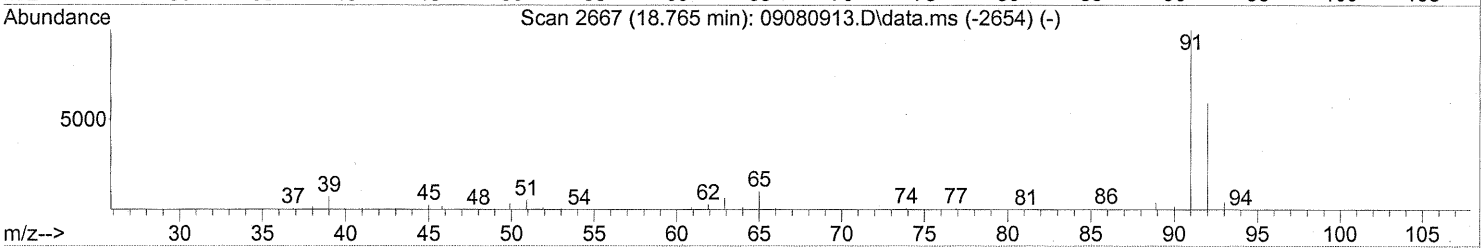
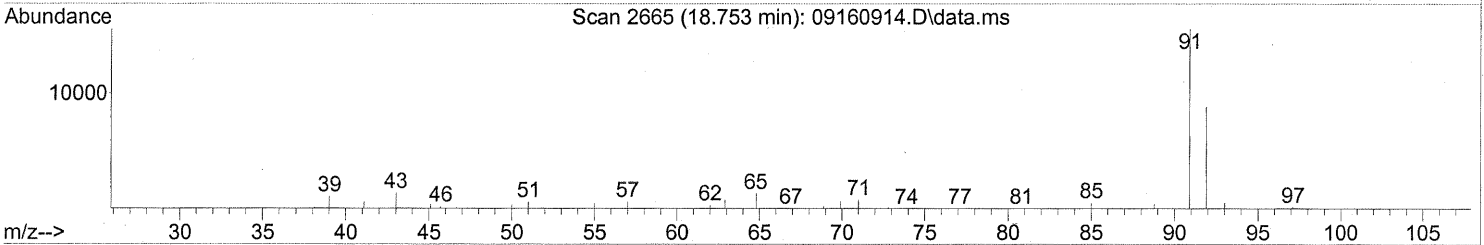
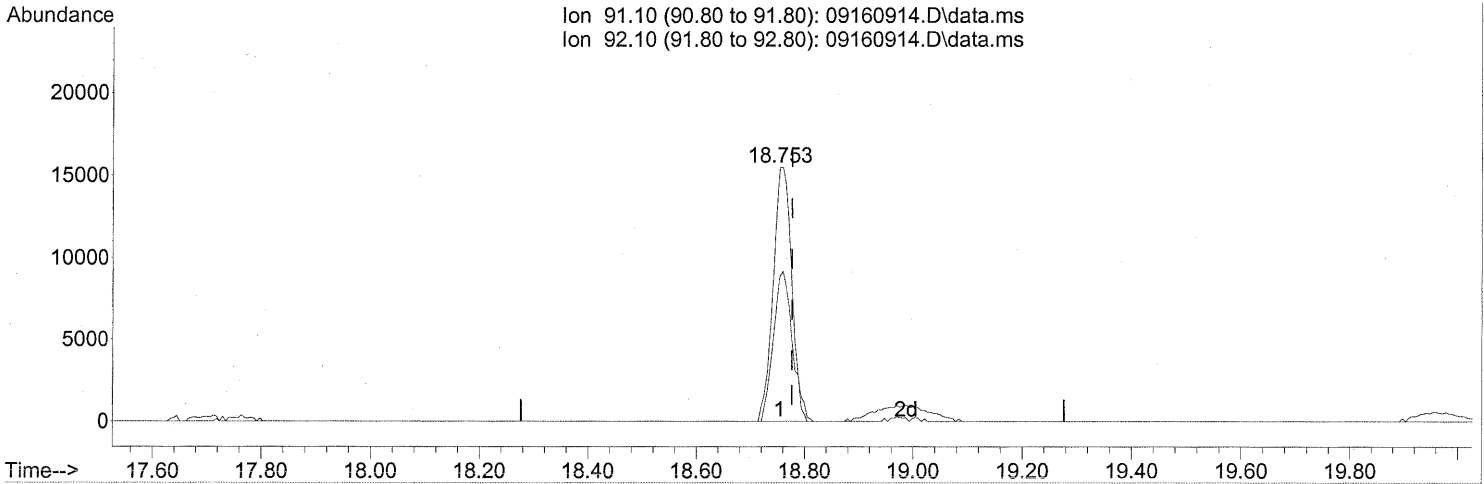
FP in 9/21/09

em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(58) Toluene (T)

18.753min (-0.023) 0.69ng

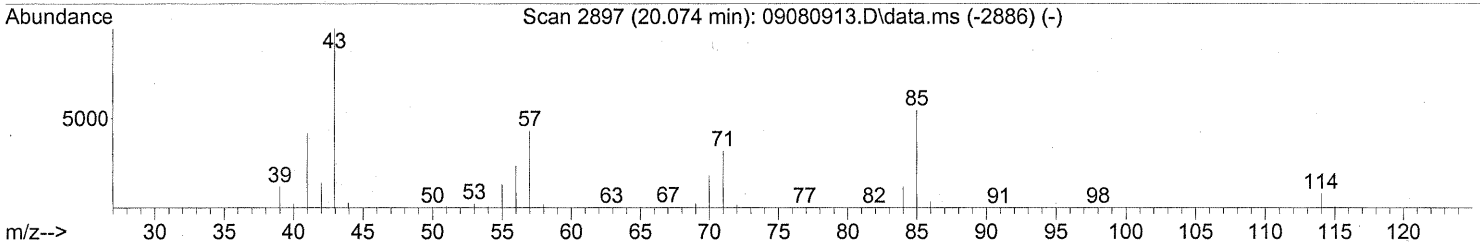
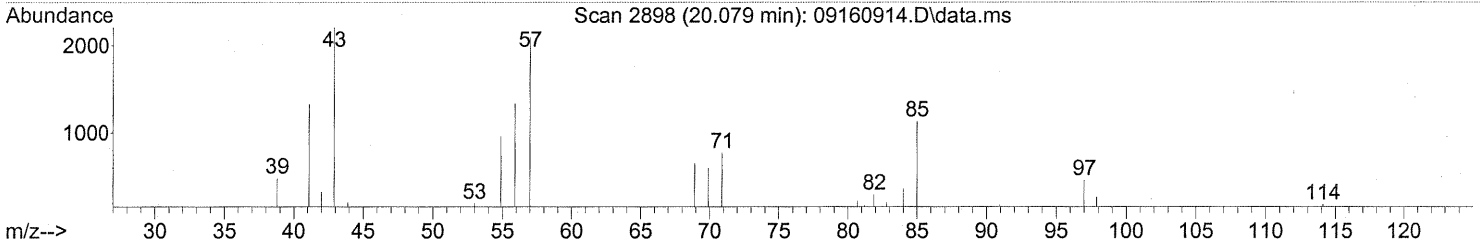
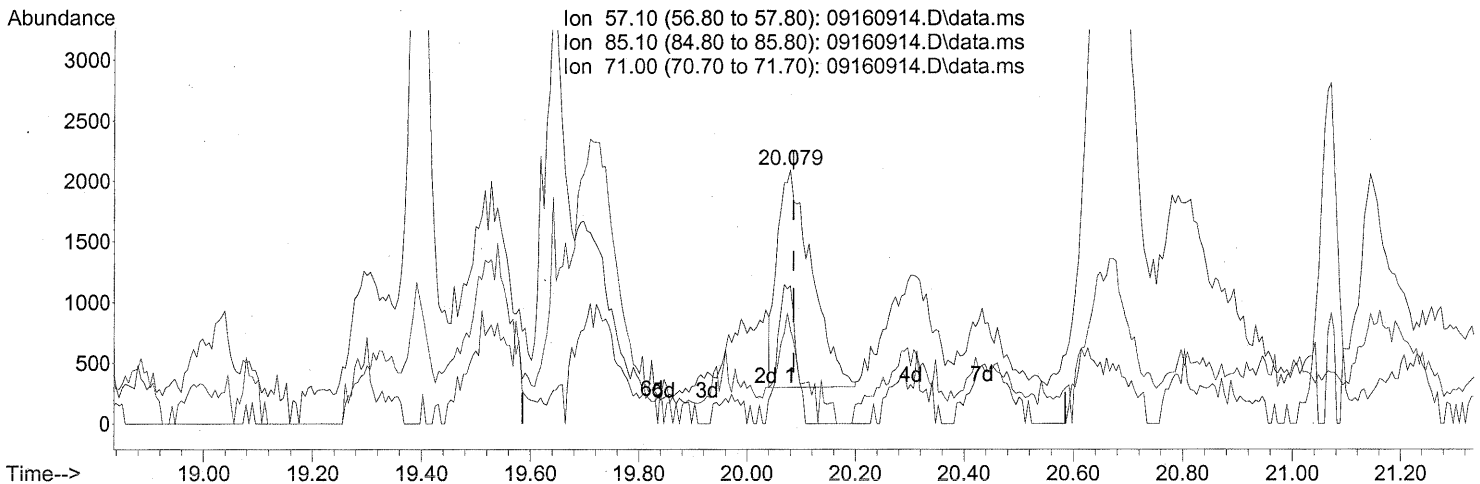
response 37131

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

(63) n-Octane (T)

20.079min (-0.006) 0.78ng

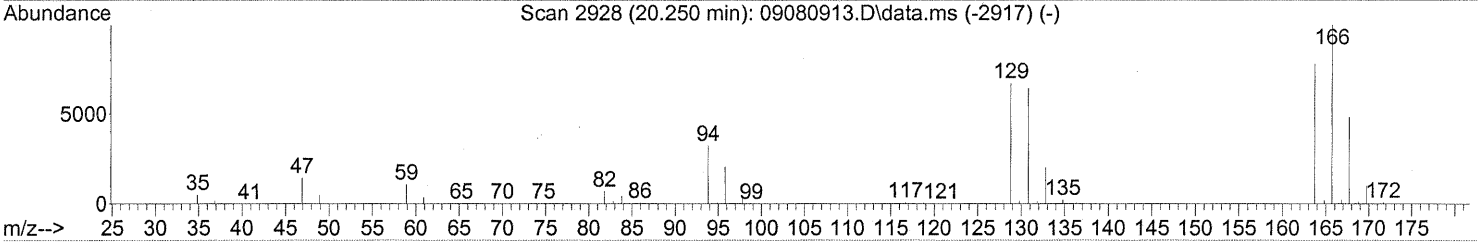
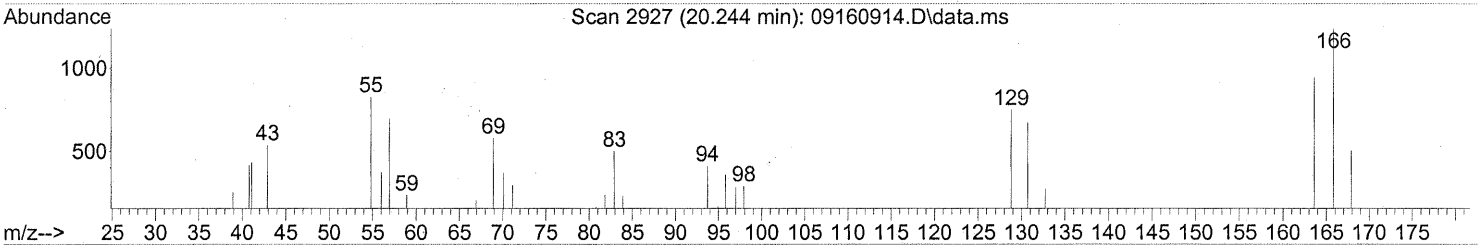
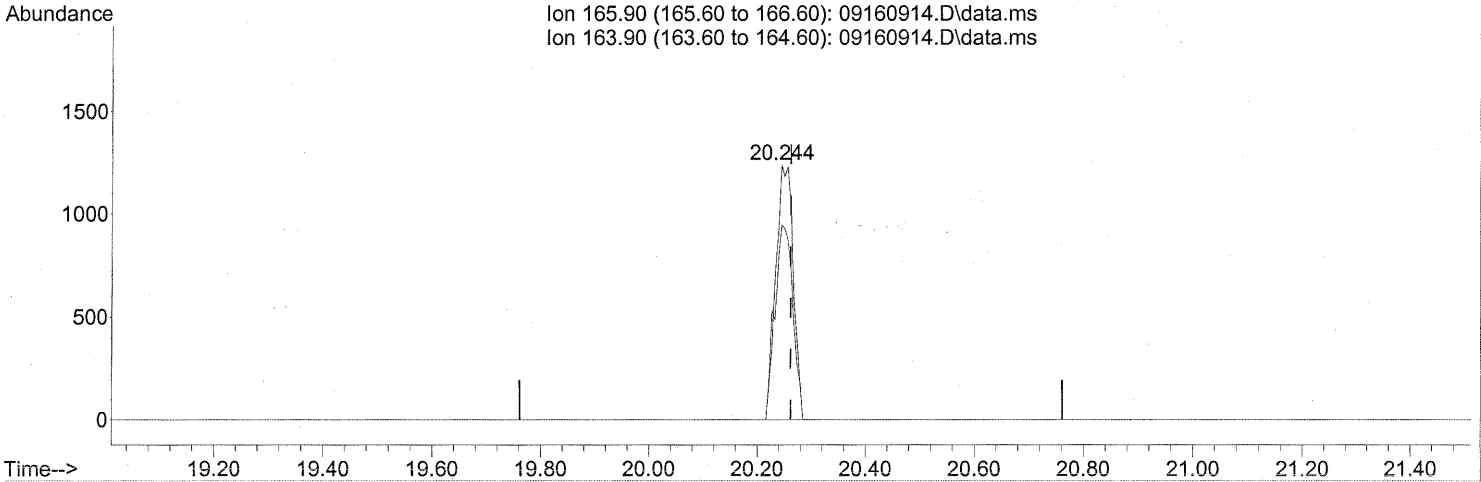
response 7862

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	34.14#
71.00	69.40	34.79#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160914.D
Acq On : 17 Sep 2009 6:39
Operator : LH
Sample : P0903145-010 (1000mL)
Misc : Environmental H & E 102719
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09160914.D\data.ms

(64) Tetrachloroethene (T)

20.244min (-0.017) 0.16ng

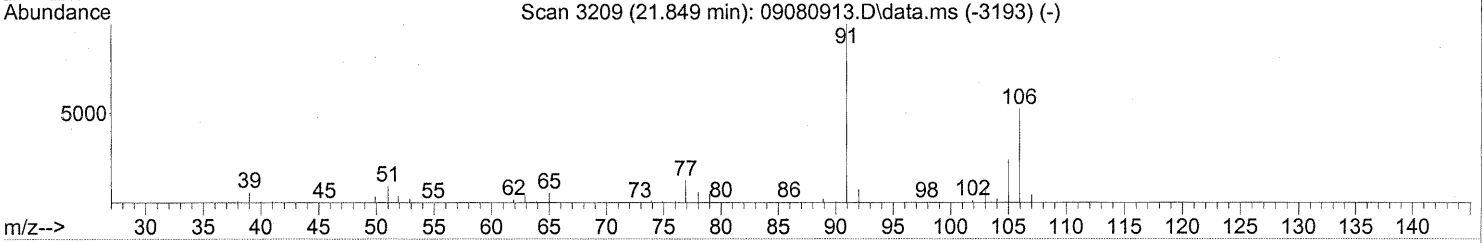
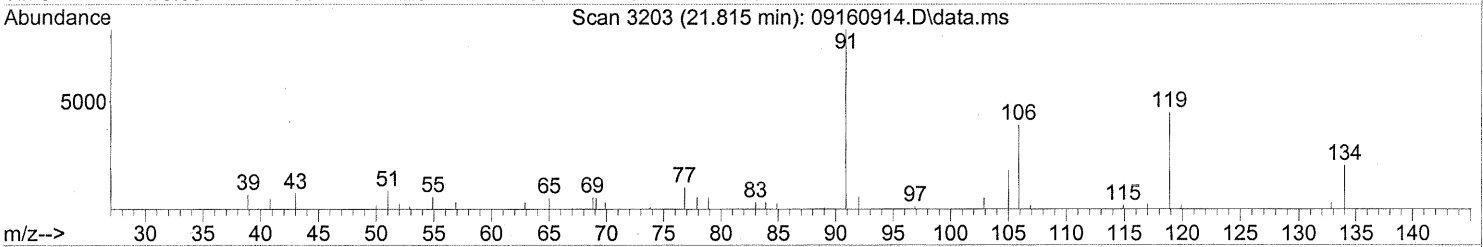
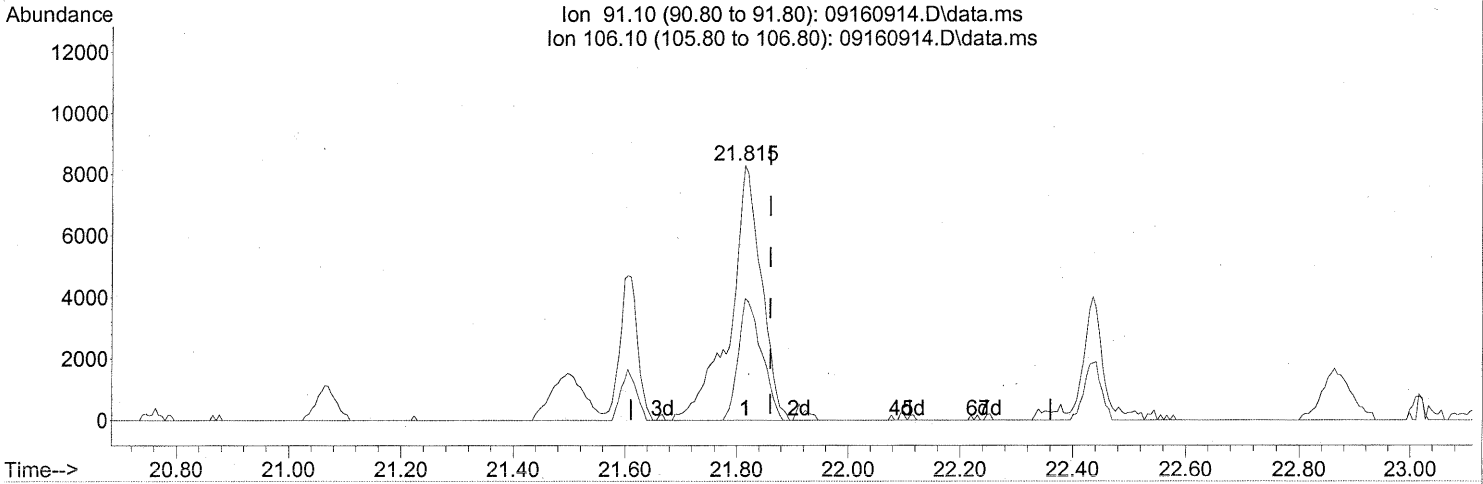
response 2734

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	79.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

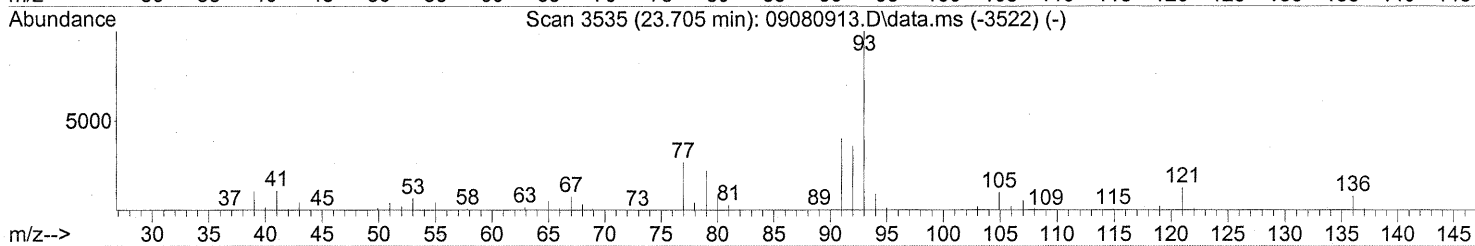
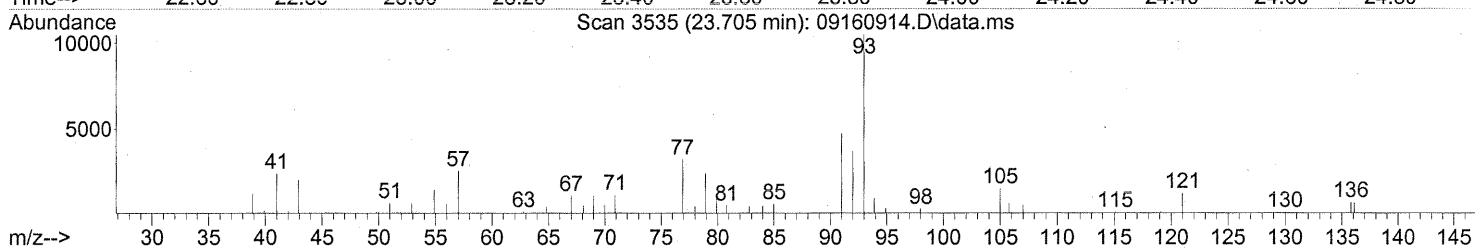
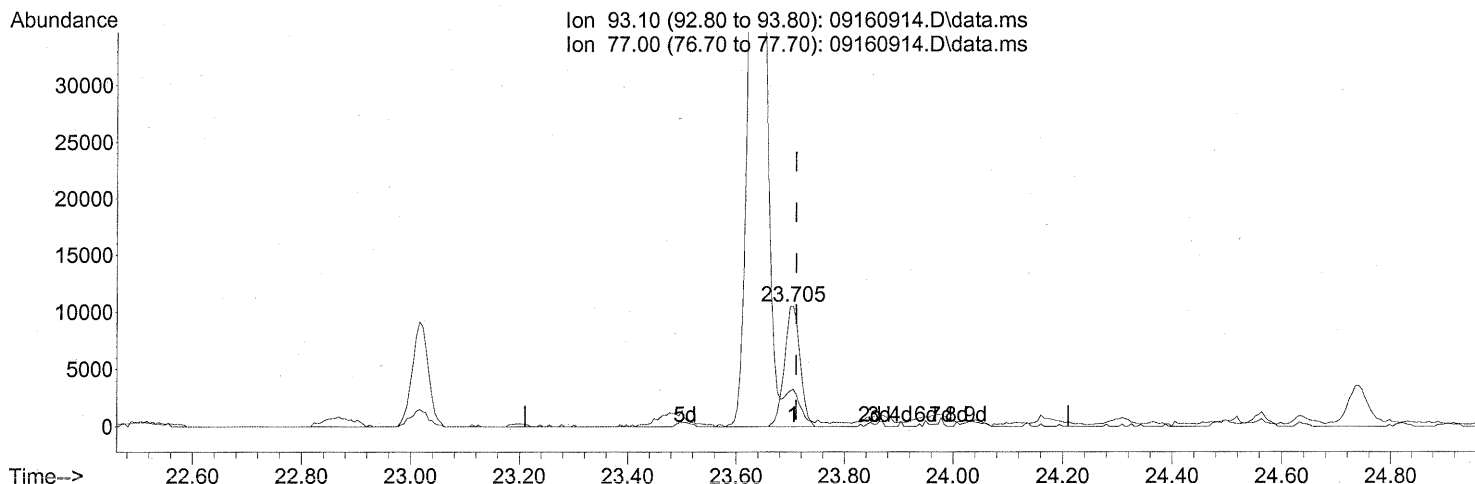
(67) m- & p-Xylenes (T)
 21.815min (-0.046) 0.70ng
 response 32125

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	35.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 17 07:12:45 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160914.D\data.ms

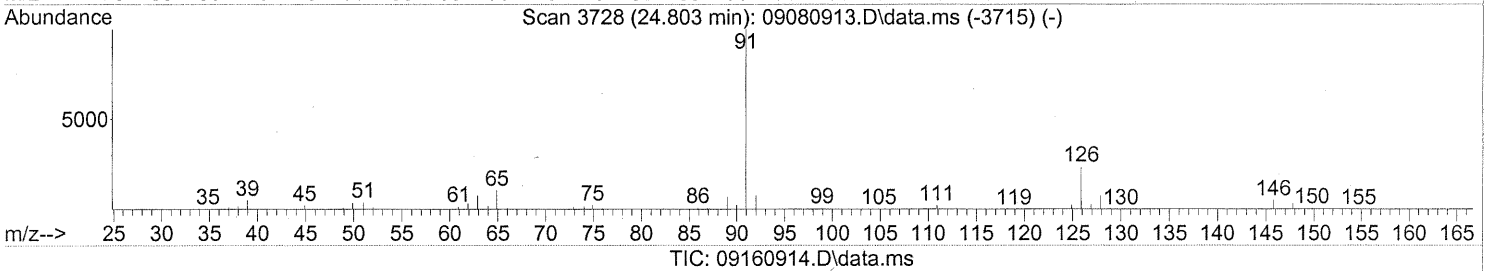
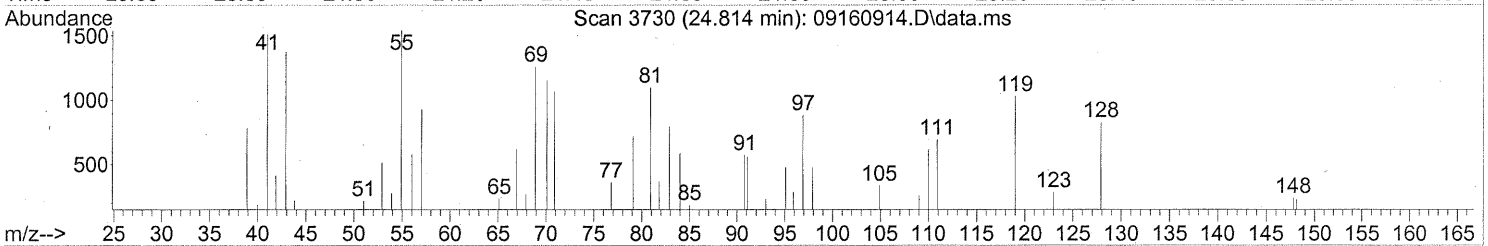
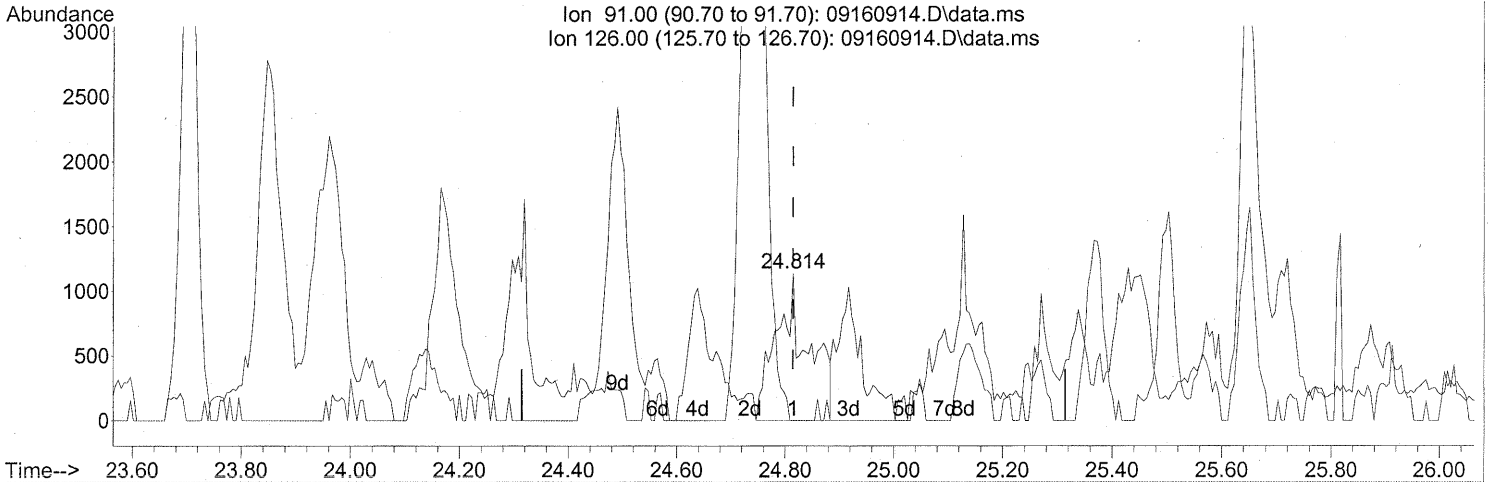
(75) alpha-Pinene (T)
 23.705min (-0.006) 0.70ng
 response 21135

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160914.D
 Acq On : 17 Sep 2009 6:39
 Operator : LH
 Sample : P0903145-010 (1000mL)
 Misc : Environmental H & E 102719
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 18 10:08:46 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(84) Benzyl Chloride (T)

24.814min (+0.000) 0.11ng

response 4689

Ion	Exp%	Act%
91.00	100	100
126.00	20.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/22/09

GM 9/22/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102720
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00949

CAS Project ID: P0903145
 CAS Sample ID: P0903145-011

Date Collected: 9/1/09
 Date Received: 9/4/09
 Date Analyzed: 9/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

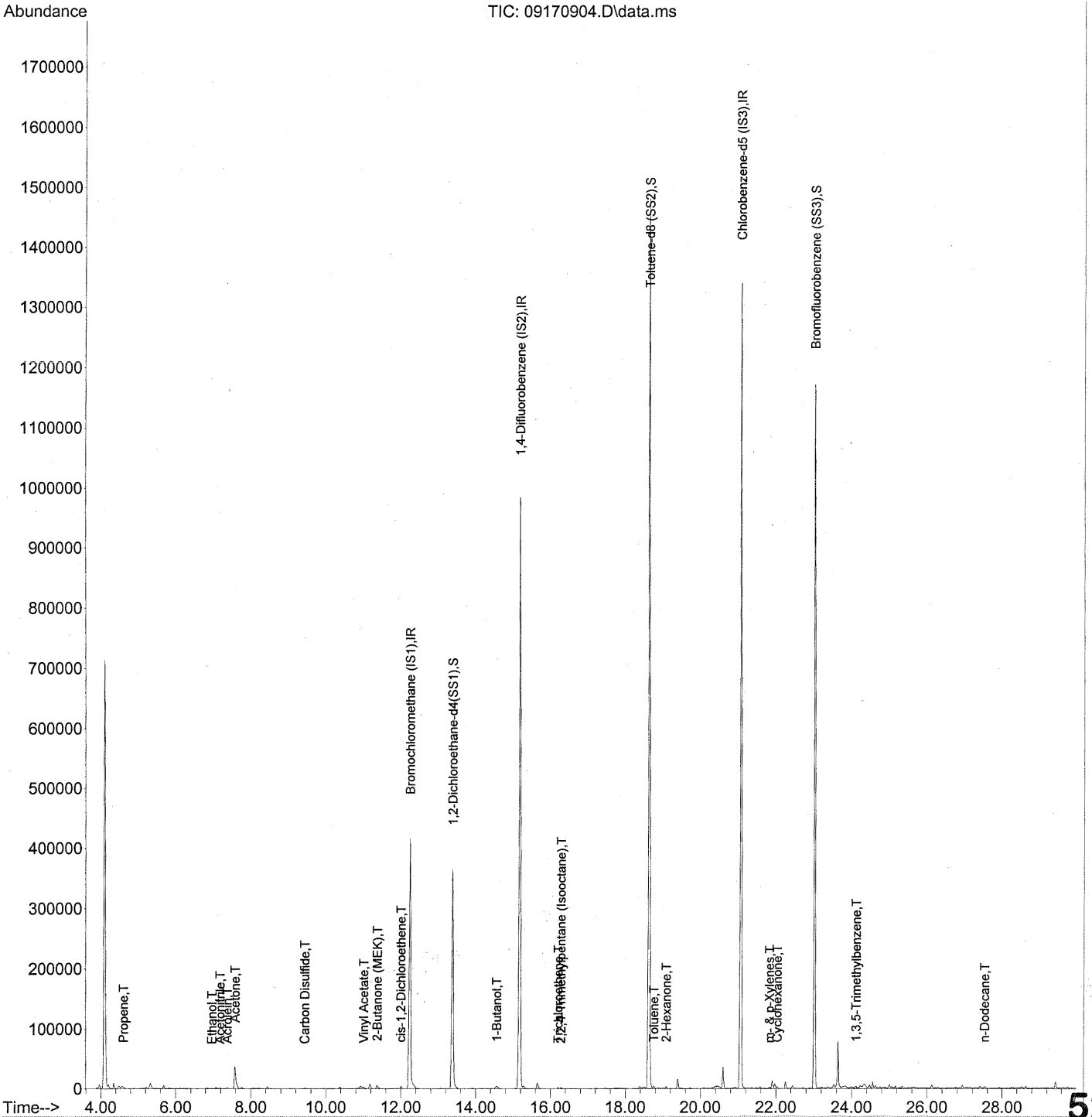
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/22/09 **526**

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170904.D
 Acq On : 17 Sep 2009 9:19
 Operator : LH
 Sample : P0903145-011 (1000mL)
 Misc : Environmental H & E 102720
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 10:45:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170904.D
 Acq On : 17 Sep 2009 9:19
 Operator : LH
 Sample : P0903145-011 (1000mL)
 Misc : Environmental H & E 102720 ✓
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 10:45:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	273859	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1330225	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	552689	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	365638	24.227	ng	-0.04
Spiked Amount	25.000		Recovery	=	96.92%	✓
57) Toluene-d8 (SS2)	18.63	98	1383451	25.006	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.04%	✓
73) Bromofluorobenzene (SS3)	23.02	174	523956	26.429	ng	0.00
Spiked Amount	25.000		Recovery	=	105.72%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.61	42	1181	0.106	ng	# 84
3) Dichlorodifluoromethan...	4.75	85	247	N.D.		
4) Chloromethane	5.07	50	343	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	5.50	62	250	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.97	45	1753	0.217	ng	# 53
11) Acetonitrile	7.18	41	2479	0.121	ng	88
12) Acrolein	7.38	56	2705	0.450	ng	93
13) Acetone	7.58	58	28144	3.456	ng	# 69
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.09	45	599	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	60	N.D.		
19) Methylene Chloride	9.05	84	588	N.D.		
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.43	76	2212	0.051	ng	# 75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.91	73	54	N.D.		
26) Vinyl Acetate	11.01	86	1108	0.452	ng	# 1
27) 2-Butanone (MEK)	11.37	72	3370	0.431	ng	# 85
28) cis-1,2-Dichloroethene	12.00	61	3554	<u>0.237</u>	ng	83
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.37	57	605	N.D.		

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170904.D
 Acq On : 17 Sep 2009 9:19
 Operator : LH
 Sample : P0903145-011 (1000mL)
 Misc : Environmental H & E 102720
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 10:45:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.56	56	5745	0.479	ng	82
41) Benzene	14.62	78	1611	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.06	84	365	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.21	130	894	0.063	ng	87
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.28	57	2401	0.050	ng	97
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.66	71	65	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	327	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	4200	0.081	ng	96
59) 2-Hexanone	19.09	43	3603	0.145	ng	89
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	176	N.D.		
63) n-Octane	20.07	57	301	N.D.		
64) Tetrachloroethene	20.26	166	52	N.D.		
65) Chlorobenzene	21.12	112	363	N.D.		
66) Ethylbenzene	21.61	91	1630	N.D.		
67) m- & p-Xylenes	21.83	91	3289	0.074	ng	98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.30	104	924	N.D.		
70) o-Xylene	22.44	91	1607	N.D.		
71) n-Nonane	22.72	43	725	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.40	83	109	N.D.		
74) Cumene	23.19	105	2072	N.D.		
75) alpha-Pinene	23.70	93	1290	N.D.		
76) n-Propylbenzene	23.84	91	1469	N.D.		
77) 3-Ethyltoluene	23.98	105	2415	N.D.		
78) 4-Ethyltoluene	24.03	105	1590	N.D.		
79) 1,3,5-Trimethylbenzene	24.12	105	3078	0.064	ng	# 6529

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170904.D
 Acq On : 17 Sep 2009 9:19
 Operator : LH
 Sample : P0903145-011 (1000mL)
 Misc : Environmental H & E 102720
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 18 10:45:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

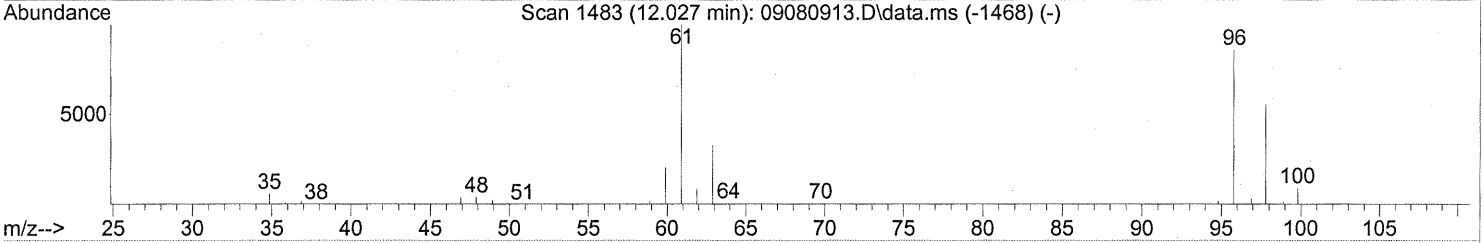
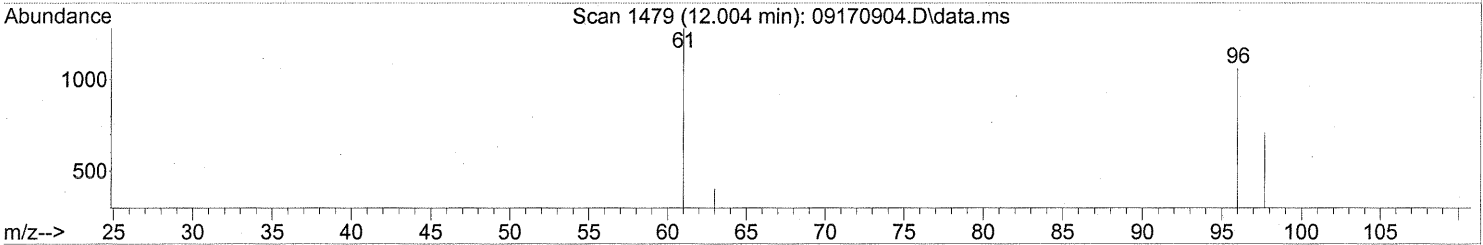
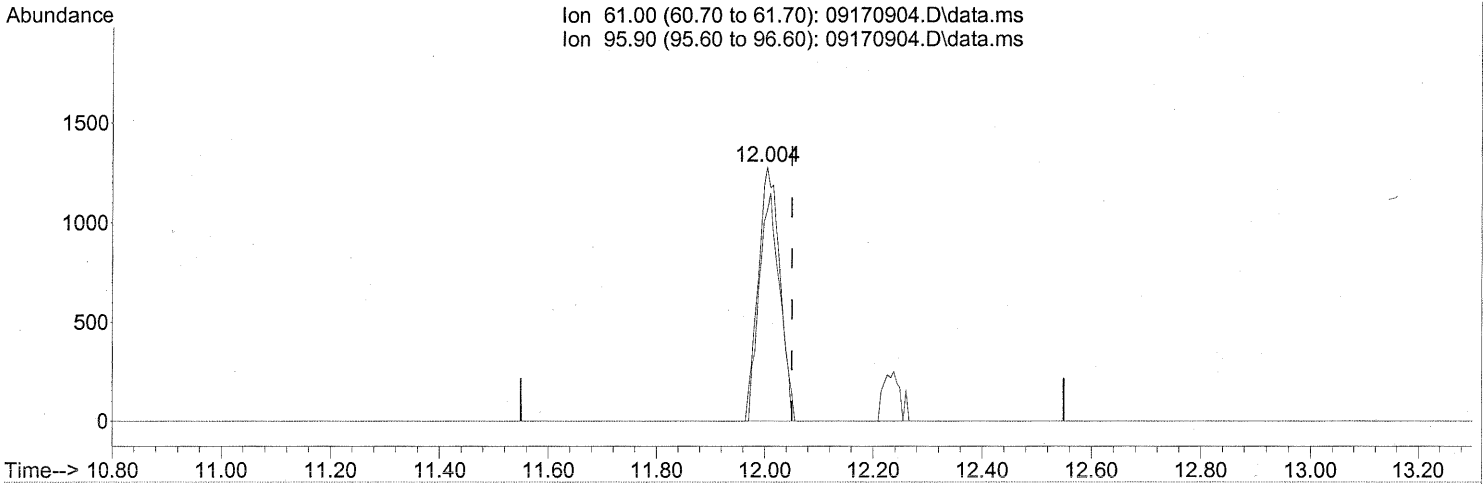
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	248		N.D.	
81) 2-Ethyltoluene	24.36	105	2789		N.D.	
82) 1,2,4-Trimethylbenzene	24.63	105	2489		N.D.	
83) n-Decane	24.75	57	1242		N.D.	
84) Benzyl Chloride	24.81	91	733		N.D.	
85) 1,3-Dichlorobenzene	24.83	146	249		N.D.	
86) 1,4-Dichlorobenzene	24.91	146	387		N.D.	
87) sec-Butylbenzene	24.97	105	1103		N.D.	
88) 4-Isopropyltoluene (p-...	25.17	119	1454		N.D.	
89) 1,2,3-Trimethylbenzene	25.17	105	1121		N.D.	
90) 1,2-Dichlorobenzene	25.34	146	68		N.D.	
91) d-Limonene	25.34	68	604		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.29	57	1127		N.D.	
94) 1,2,4-Trichlorobenzene	27.40	180	137		N.D.	
95) Naphthalene	27.55	128	2939		N.D.	
96) n-Dodecane	27.52	57	1574	0.052	ng	90
97) Hexachlorobutadiene	27.96	225	52		N.D.	
98) Cyclohexanone	22.03	55	2314	0.121	ng	# 88
99) tert-Butylbenzene	24.64	119	1070		N.D.	
100) n-Butylbenzene	25.68	91	1604		N.D.	

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170904.D
Acq On : 17 Sep 2009 9:19
Operator : LH
Sample : P0903145-011 (1000mL)
Misc : Environmental H & E 102720
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 10:03:40 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170904.D\data.ms

(28) cis-1,2-Dichloroethene (T)

12.004min (-0.046) 0.24ng

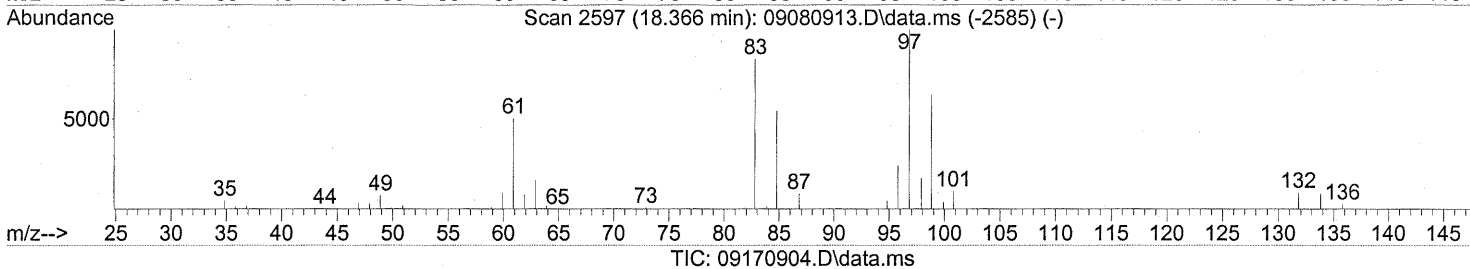
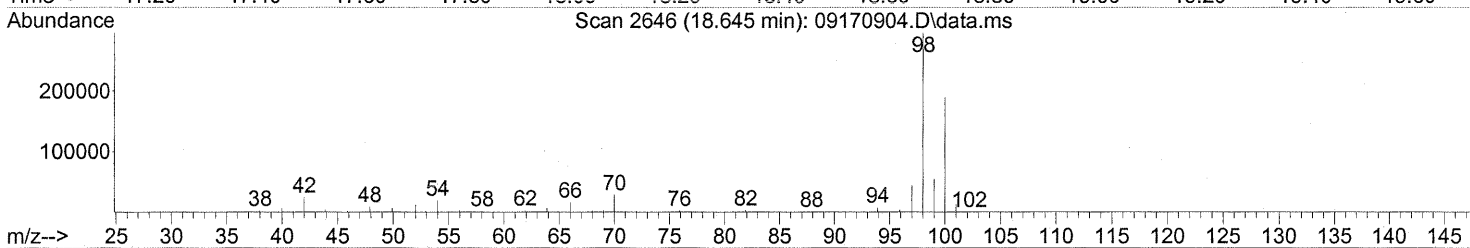
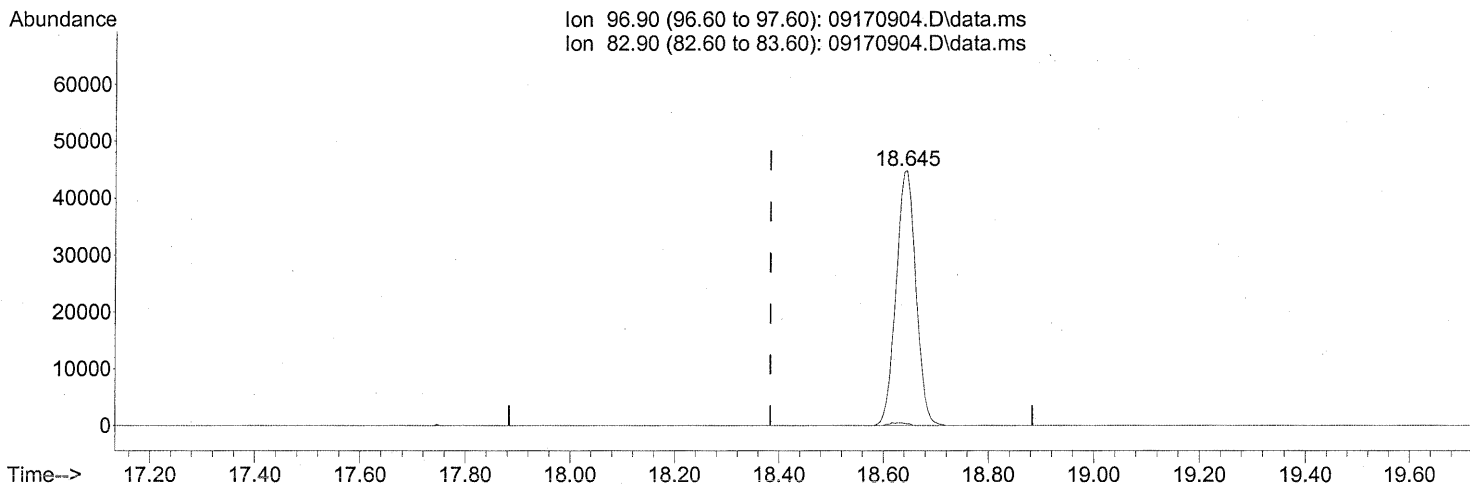
response 3554

Ion	Exp%	Act%
61.00	100	100
95.90	72.80	86.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170904.D
 Acq On : 17 Sep 2009 9:19
 Operator : LH
 Sample : P0903145-011 (1000mL)
 Misc : Environmental H & E 102720
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 17 10:03:40 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.85ng

response 117537

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/21/09

com 9/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102826
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01424

CAS Project ID: P0903145
CAS Sample ID: P0903145-012

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.3	0.61	1.3	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.61	0.58	0.12	
74-87-3	Chloromethane	ND	0.12	ND	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	370	6.1	190	3.2	
75-05-8	Acetonitrile	160	0.61	94	0.36	E
107-02-8	Acrolein	6.5	0.61	2.9	0.26	
67-64-1	Acetone	88	6.1	37	2.5	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	12	0.61	4.8	0.25	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.69	0.12	0.090	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	6.9	6.1	2.0	1.7	
78-93-3	2-Butanone (MEK)	4.6	0.61	1.6	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

E = Estimated; concentration exceeded calibration range.

Verified By: P Date: 9/22/09 **533**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102826
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01424

CAS Project ID: P0903145
CAS Sample ID: P0903145-012

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	6.3	0.61	1.7	0.17	
110-54-3	n-Hexane	ND	0.61	ND	0.17	
67-66-3	Chloroform	2.2	0.12	0.45	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.61	ND	0.21	
107-06-2	1,2-Dichloroethane	1.2	0.12	0.29	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.022	
71-43-2	Benzene	0.41	0.12	0.13	0.038	
56-23-5	Carbon Tetrachloride	0.59	0.12	0.094	0.019	
110-82-7	Cyclohexane	ND	0.61	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.026	
75-27-4	Bromodichloromethane	0.47	0.12	0.070	0.018	
79-01-6	Trichloroethene	0.15	0.12	0.028	0.023	
123-91-1	1,4-Dioxane	ND	0.61	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.61	ND	0.15	
142-82-5	n-Heptane	ND	0.61	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.61	ND	0.13	
108-10-1	4-Methyl-2-pentanone	1.2	0.61	0.30	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.022	
108-88-3	Toluene	6.4	0.61	1.7	0.16	
591-78-6	2-Hexanone	1.1	0.61	0.28	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	5.1	0.61	1.1	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

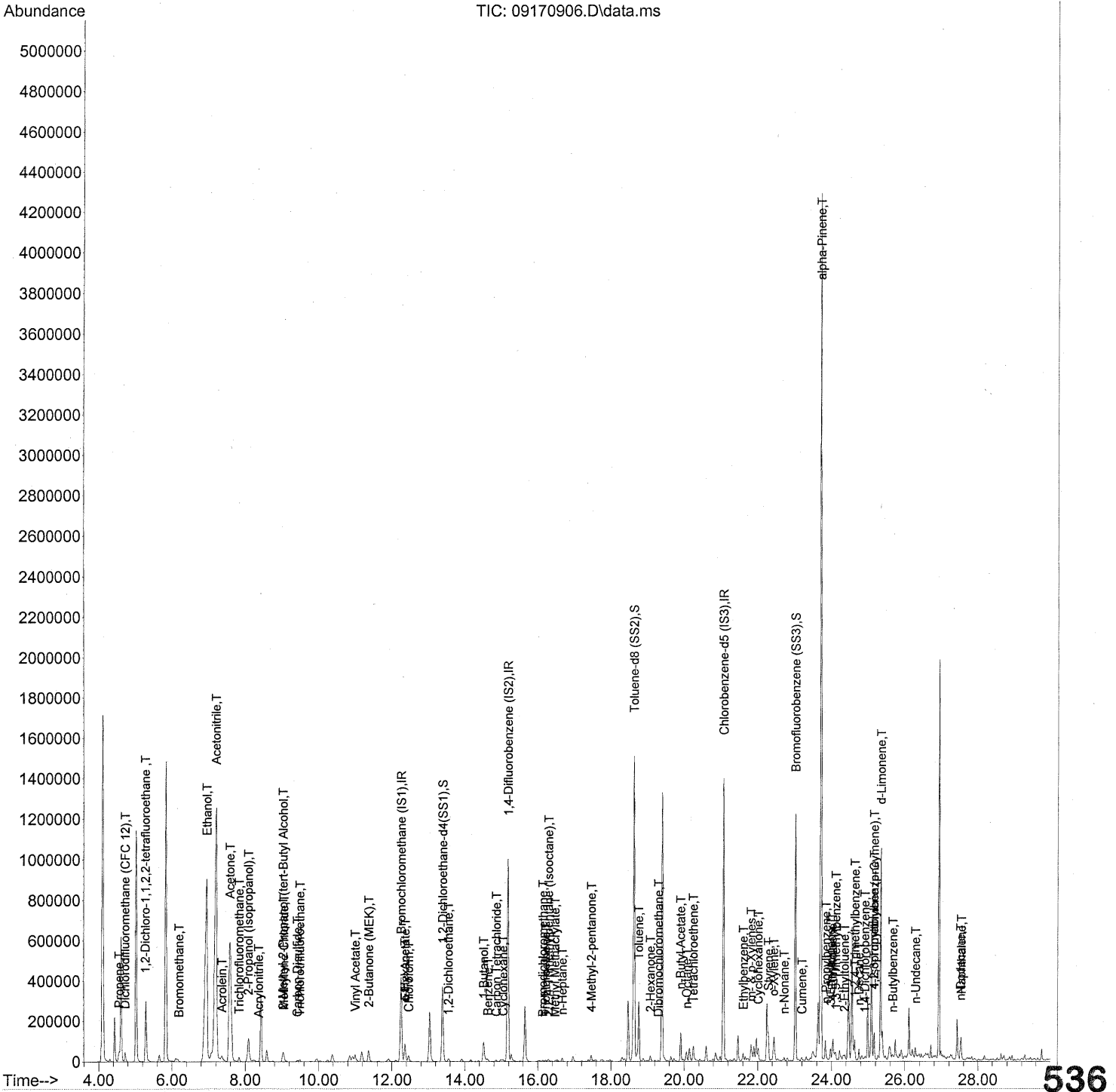
Date: _____

9/22/09

534

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 11:43:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826 ✓
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 11:43:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

ur 9/22/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.25	130	277585	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1340515	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	564563	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	374288	24.467	ng	-0.03
Spiked Amount	25.000			Recovery =		97.88%
57) Toluene-d8 (SS2)	18.63	98	1398294	24.743	ng	-0.01
Spiked Amount	25.000			Recovery =		98.96%
73) Bromofluorobenzene (SS3)	23.02	174	542180	26.773	ng	0.00
Spiked Amount	25.000			Recovery =		107.08%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	21251	1.880	ng	93
3) Dichlorodifluoromethan...	4.72	85	50918	2.356	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1241	0.096	ng	79
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.74	54	484	N.D.		
8) Bromomethane	6.20	94	627	0.056	ng	80
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.95	45	2472108m	301.678	ng	
11) Acetonitrile	7.21	41	2701913	130.367	ng	E 99
12) Acrolein	7.37	56	32936	5.402	ng	98
13) Acetone	7.59	58	602380	72.967	ng	# 83
14) Trichlorofluoromethane	7.83	101	23318	1.165	ng	99
15) 2-Propanol (Isopropanol)	8.09	45	274755m	9.663	ng	
16) Acrylonitrile	8.37	53	1021	0.064	ng	85
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	18448	0.628	ng	# 1
19) Methylene Chloride	9.05	84	3402	0.270	ng	# 67
20) 3-Chloro-1-propene (Al...	9.22	41	57	N.D.		
21) Trichlorotrifluoroethane	9.49	151	5644	0.572	ng	# 82
22) Carbon Disulfide	9.42	76	14541	0.333	ng	97
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.85	73	253	N.D.		
26) Vinyl Acetate	11.00	86	14145	5.690	ng	# 1
27) 2-Butanone (MEK)	11.37	72	30160	3.803	ng	# 72
28) cis-1,2-Dichloroethene	12.01	61	52	N.D.		
29) Diisopropyl Ether	12.37	87	209	N.D.		
30) Ethyl Acetate	12.36	61	20909	5.194	ng	96
31) n-Hexane	12.36	57	5420	0.340	ng	96

537

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 11:43:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.46	83	35544	1.817	ng	99
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	13148	0.974	ng	100
38) 1,1,1-Trichloroethane	13.93	97	722	N.D.		
39) Isopropyl Acetate	14.51	61	167	N.D.		
40) 1-Butanol	14.52	56	99155	8.199	ng	83
41) Benzene	14.63	78	16185	0.339	ng	98
42) Carbon Tetrachloride	14.86	117	7048	0.490	ng	97
43) Cyclohexane	15.05	84	4881	0.280	ng	96
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	15.64	63	52	N.D.		
46) Bromodichloromethane	16.14	83	5693	0.385	ng	96
47) Trichloroethene	16.22	130	1819	0.126	ng	83
48) 1,4-Dioxane	16.18	88	164	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	7831	0.163	ng	65
50) Methyl Methacrylate	16.47	100	1643	0.299	ng	# 1
51) n-Heptane	16.66	71	5913	0.485	ng	86
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	10855	1.018	ng	89
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	278702	5.283	ng	99
59) 2-Hexanone	19.08	43	23796m	0.935	ng	
60) Dibromochloromethane	19.30	129	850	0.065	ng	90
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	123866	4.254	ng	95
63) n-Octane	20.07	57	6188	0.625	ng	96
64) Tetrachloroethene	20.25	166	32809	2.015	ng	99
65) Chlorobenzene	21.12	112	277	N.D.		
66) Ethylbenzene	21.61	91	36809	0.635	ng	97
67) m- & p-Xylenes	21.82	91	81706	1.805	ng	96
68) Bromoform	21.91	173	163	N.D.		
69) Styrene	22.29	104	53234	1.431	ng	95
70) o-Xylene	22.44	91	35037	0.757	ng	91
71) n-Nonane	22.71	43	8392	0.374	ng	93
72) 1,1,2,2-Tetrachloroethane	22.44	83	543	N.D.		
74) Cumene	23.20	105	6339	0.100	ng	98
75) alpha-Pinene	23.70	93	2287301	76.865	ng	95
76) n-Propylbenzene	23.85	91	11846	0.160	ng	# 66
77) 3-Ethyltoluene	23.98	105	29192	0.488	ng	100
78) 4-Ethyltoluene	24.03	105	17209	0.291	ng	94
79) 1,3,5-Trimethylbenzene	24.12	105	11836	0.241	ng	100

538

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 11:43:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

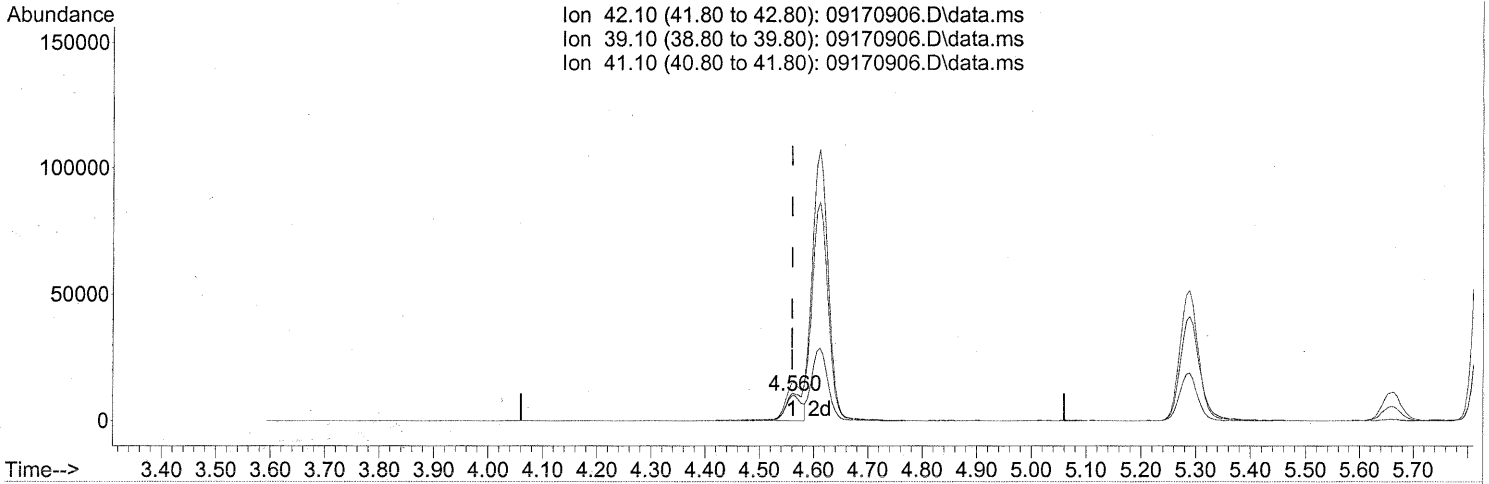
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	1197	N.D.		
81) 2-Ethyltoluene	24.36	105	12839	0.205 ng		91
82) 1,2,4-Trimethylbenzene	24.64	105	45545	0.868 ng		92
83) n-Decane	24.75	57	19830	0.722 ng		84
84) Benzyl Chloride	24.81	91	497	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	24.91	146	4115	0.129 ng		94
87) sec-Butylbenzene	24.97	105	1782	N.D.		
88) 4-Isopropyltoluene (p-...	25.16	119	74734	1.123 ng		92
89) 1,2,3-Trimethylbenzene	25.16	105	16268	0.317 ng	#	58
90) 1,2-Dichlorobenzene	25.33	146	334	N.D.		
91) d-Limonene	25.34	68	275124	14.600 ng		76
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	17125	0.541 ng		76
94) 1,2,4-Trichlorobenzene	27.40	180	138	N.D.		
95) Naphthalene	27.53	128	82301	1.080 ng		100
96) n-Dodecane	27.52	57	17610	0.564 ng		93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.01	55	35850	1.837 ng	#	92
99) tert-Butylbenzene	24.89	119	289	N.D.		
100) n-Butylbenzene	25.67	91	9696	0.184 ng	#	55

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

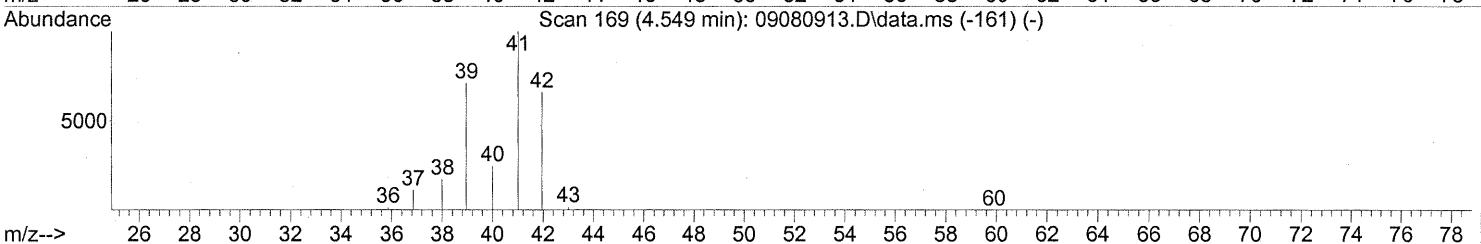
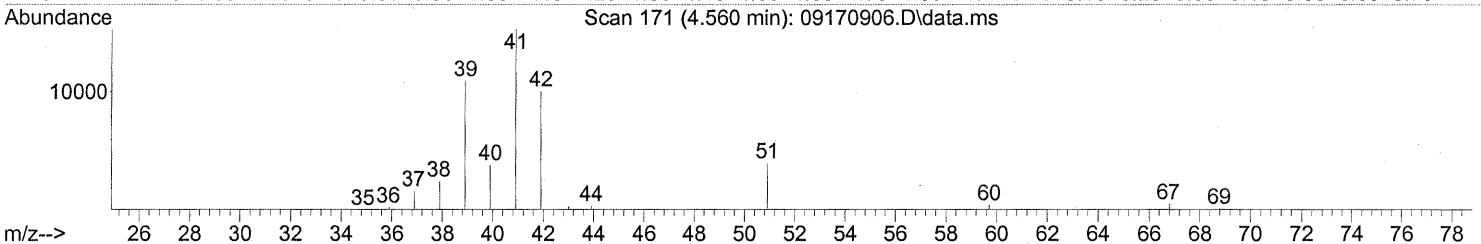
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Ion 42.10 (41.80 to 42.80): 09170906.D\data.ms
 Ion 39.10 (38.80 to 39.80): 09170906.D\data.ms
 Ion 41.10 (40.80 to 41.80): 09170906.D\data.ms



TIC: 09170906.D\data.ms

(2) Propene (T)

4.560min (+0.000) 1.88ng

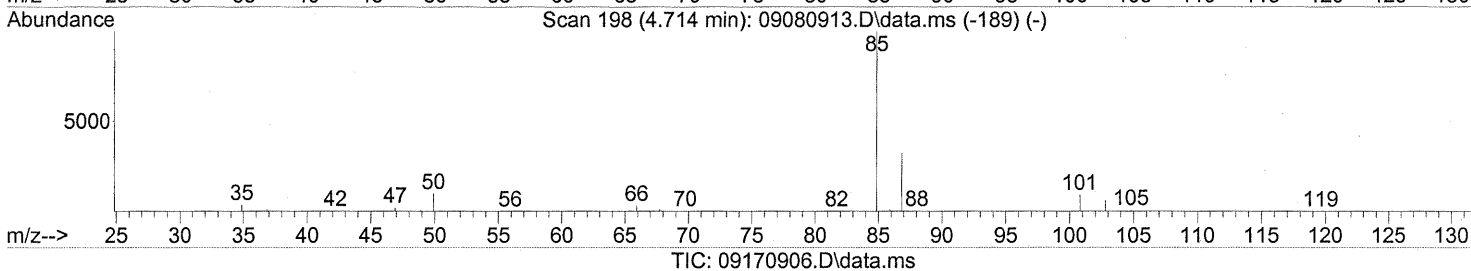
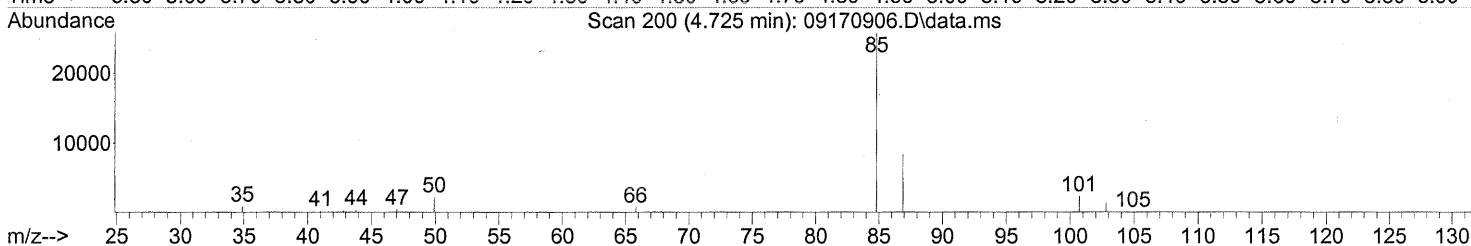
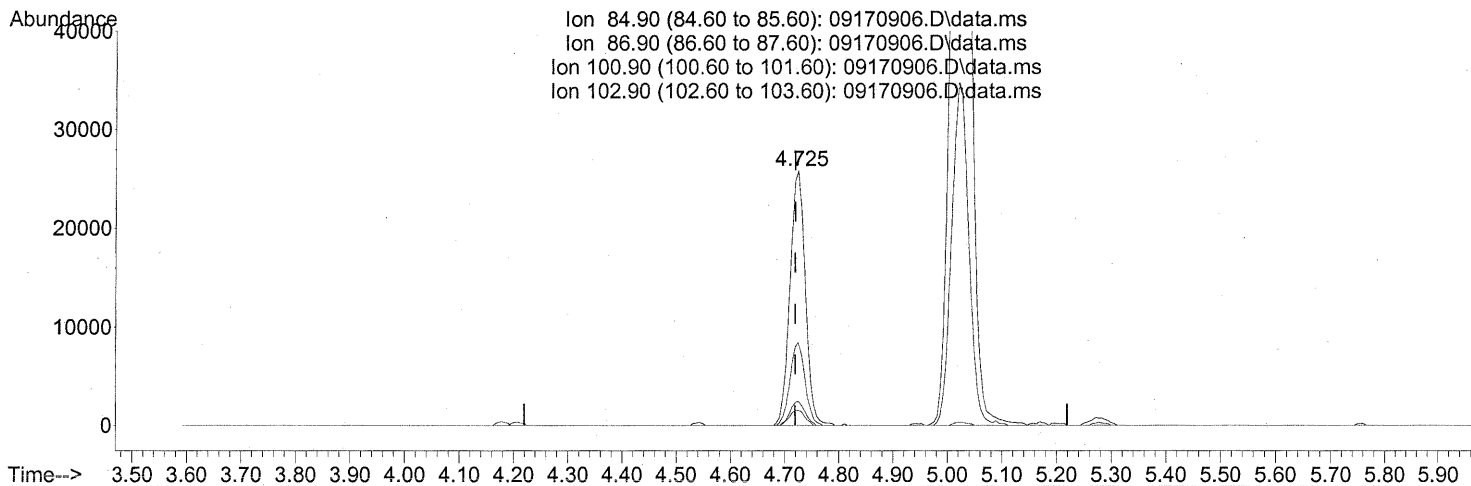
response 21251

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	100.03
41.10	152.10	144.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.725min (+0.006) 2.36ng

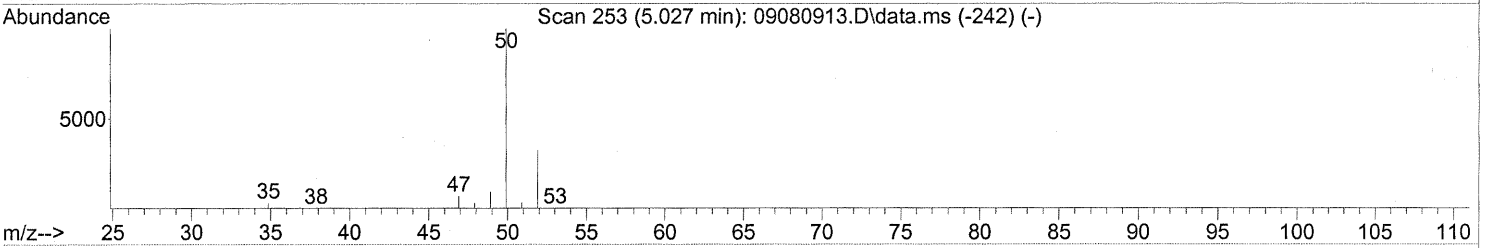
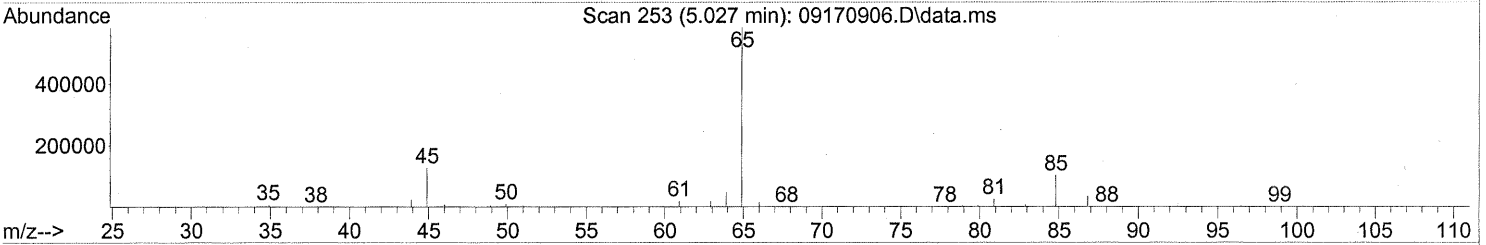
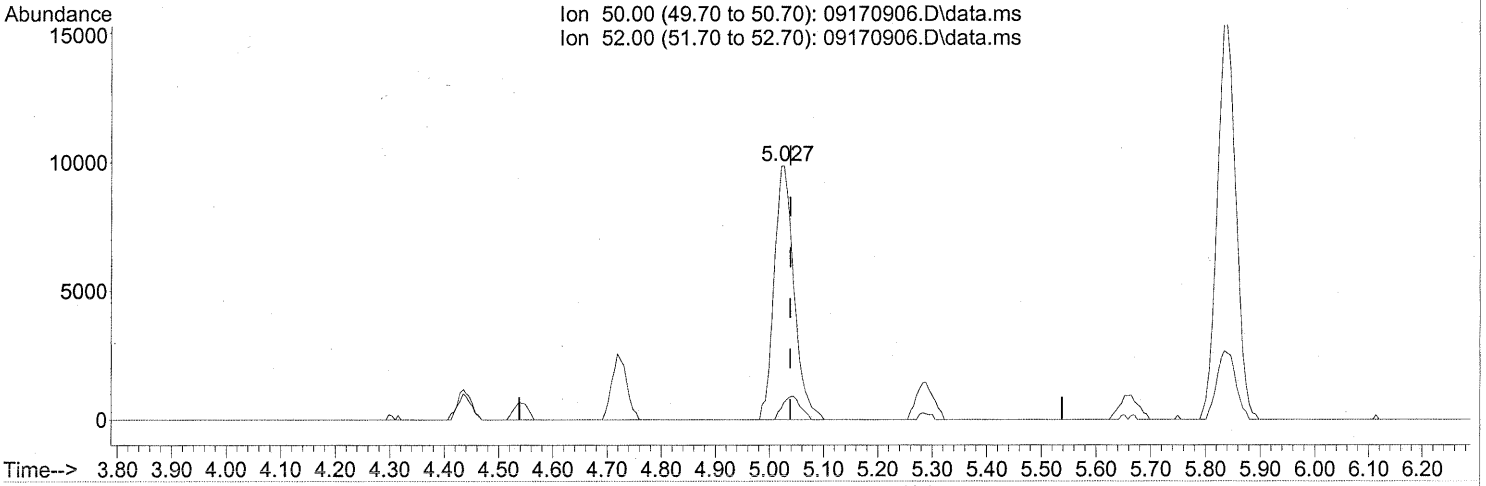
response 50918

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.23
100.90	8.60	9.28
102.90	5.90	6.01

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.027min (-0.011) 1.42ng

response 25078

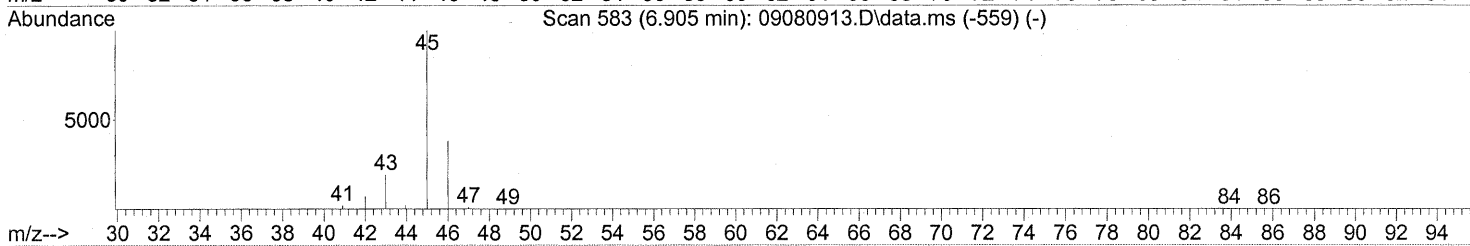
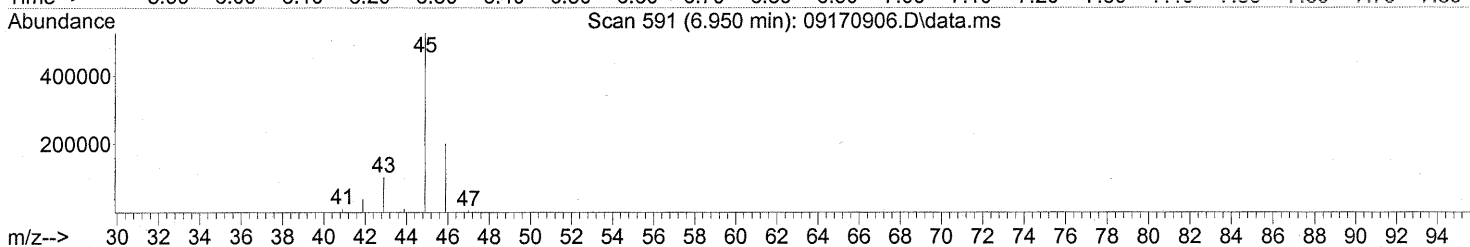
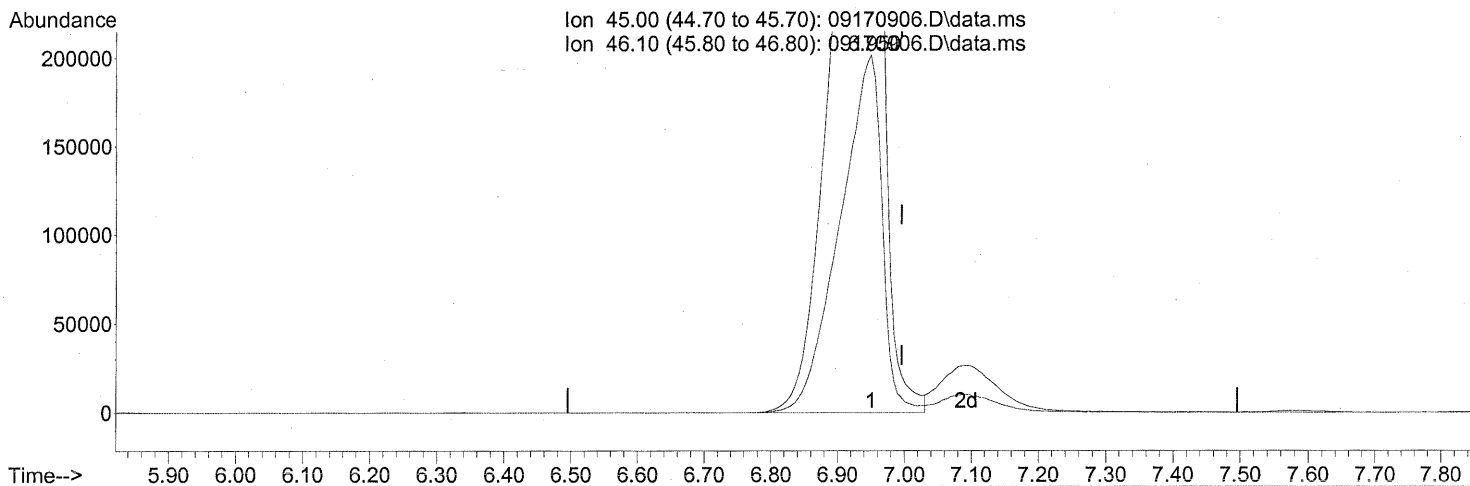
Ion	Exp%	Act%
50.00	100	100
52.00	32.20	8.36#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/21/09
com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170906.D\data.ms

(10) Ethanol (T)

6.950min (-0.046) 282.15ng

response 2312072

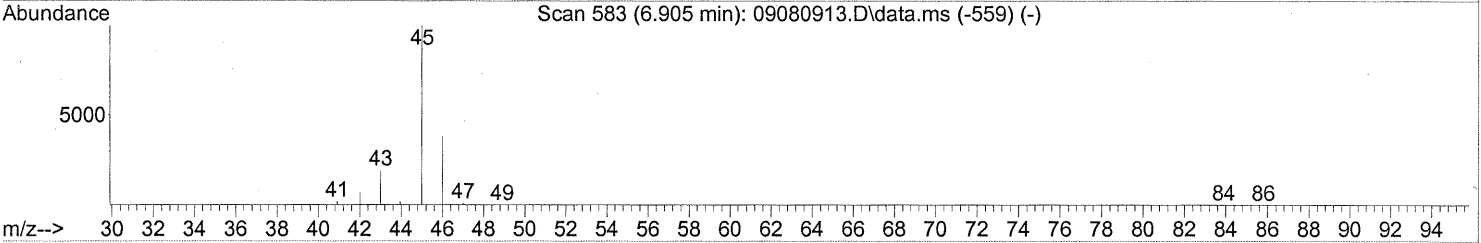
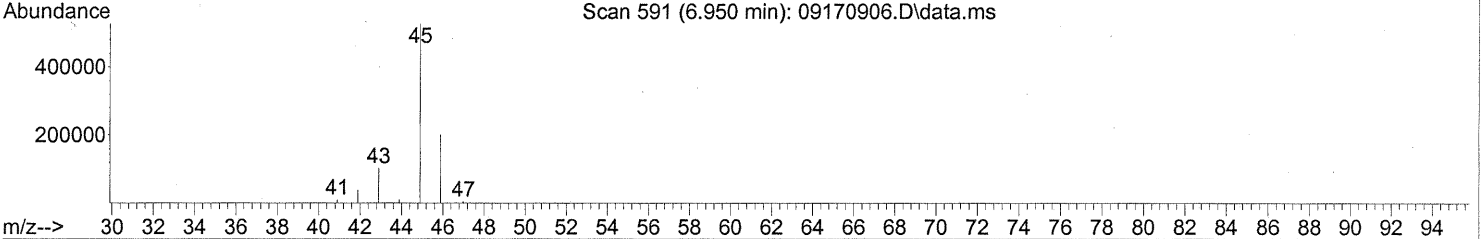
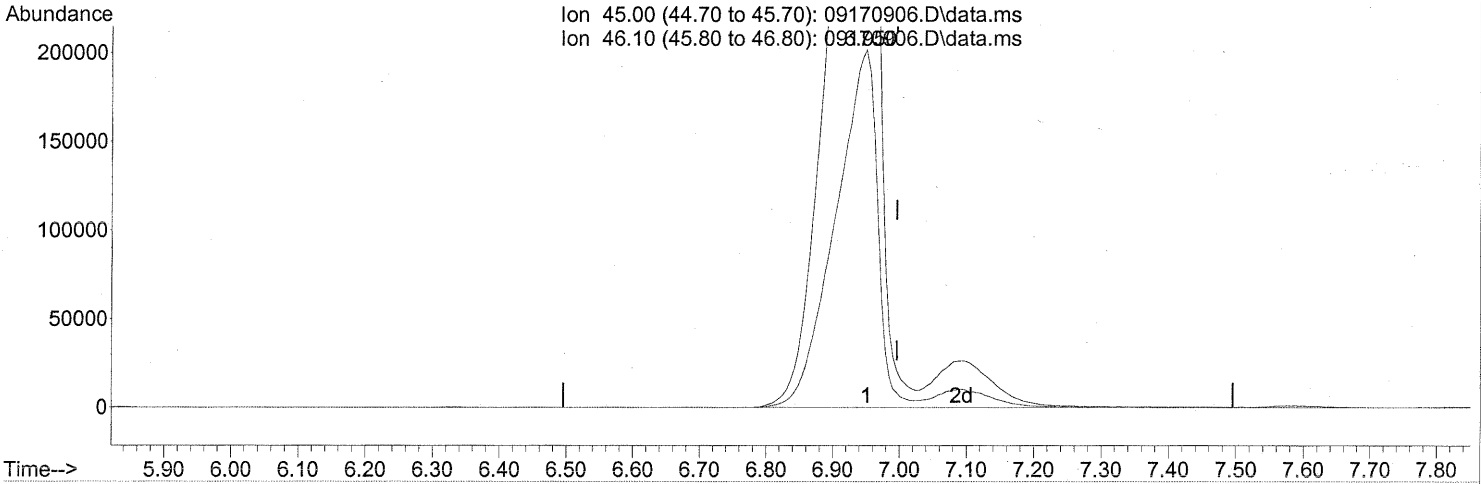
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.14
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.950min (-0.046) 301.68ng m

response 2472108

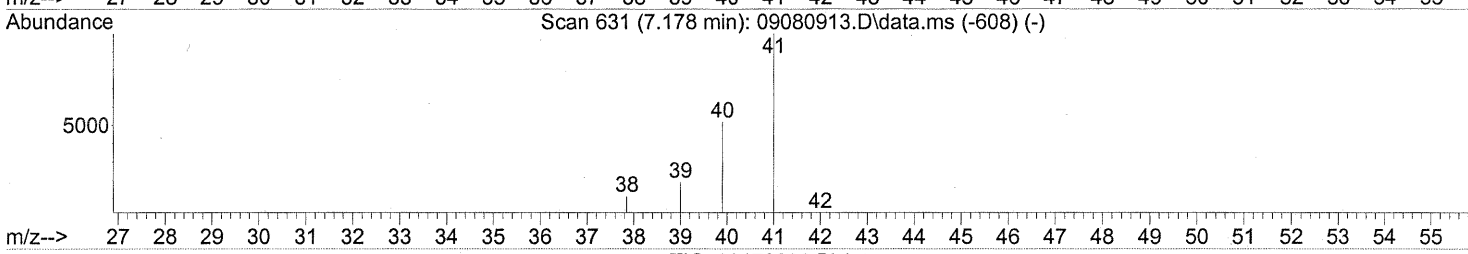
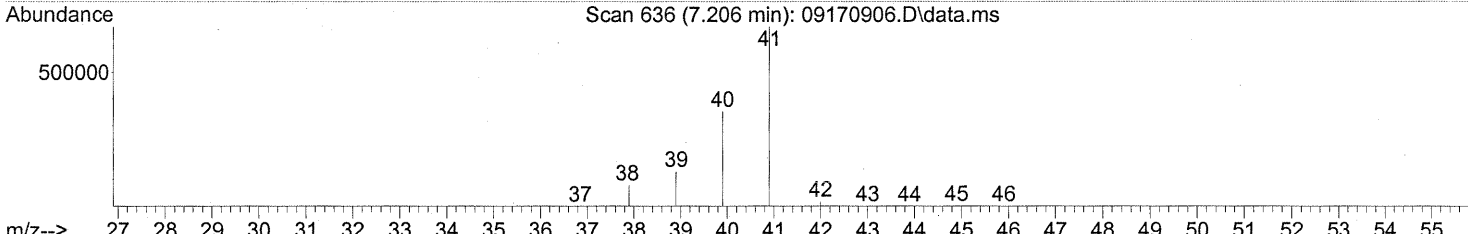
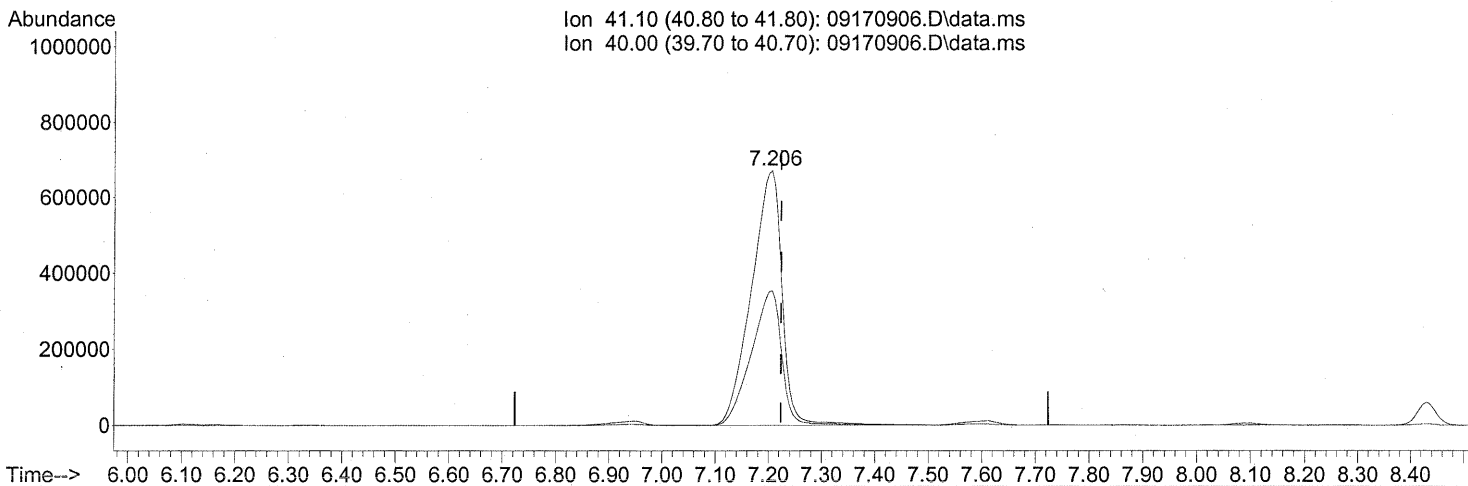
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.67
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
in 9/21/09
Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.206min (-0.017) 130.37ng *E*

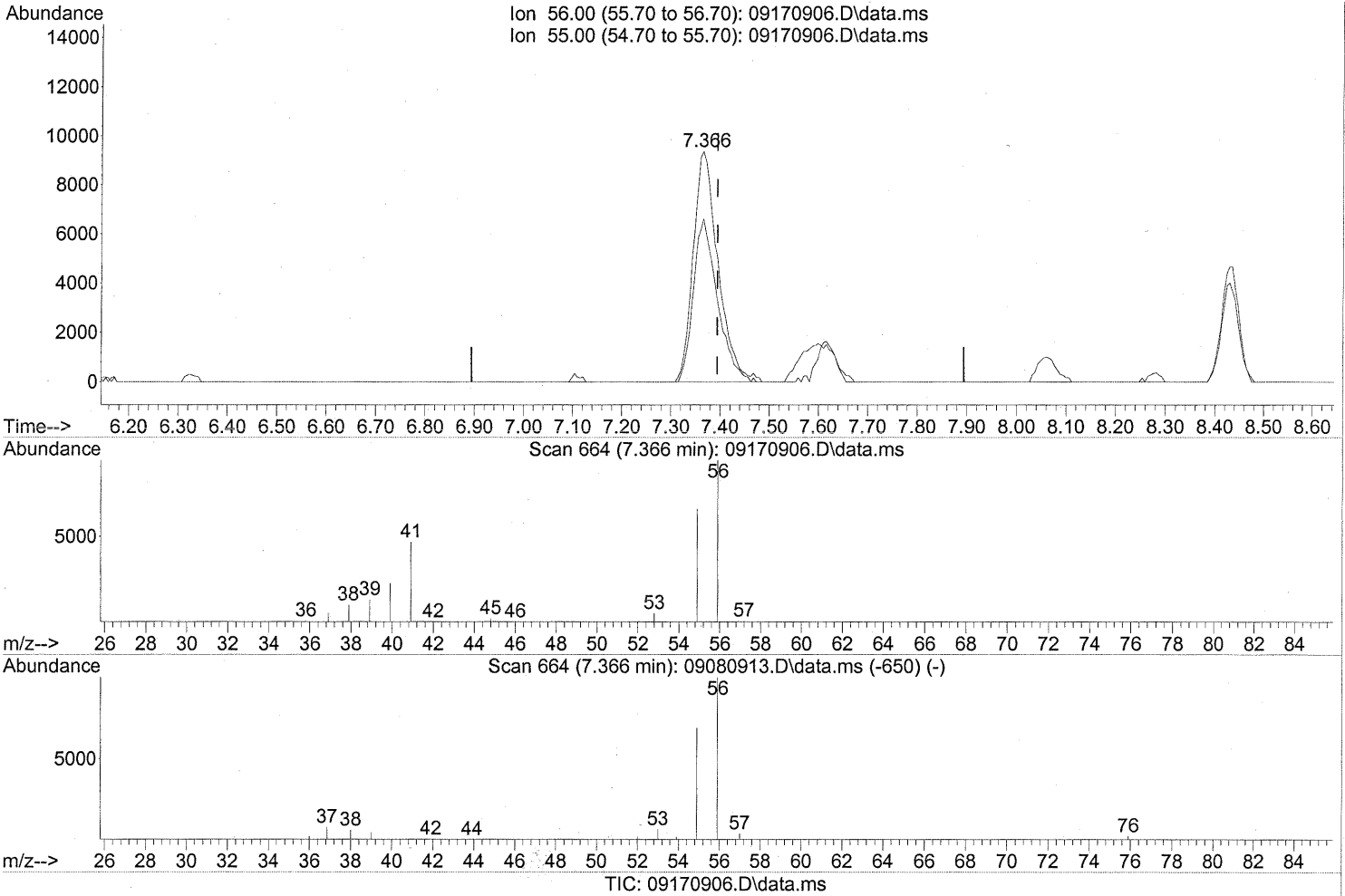
response 2701913

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(12) Acrolein (T)

7.366min (-0.028) 5.40ng

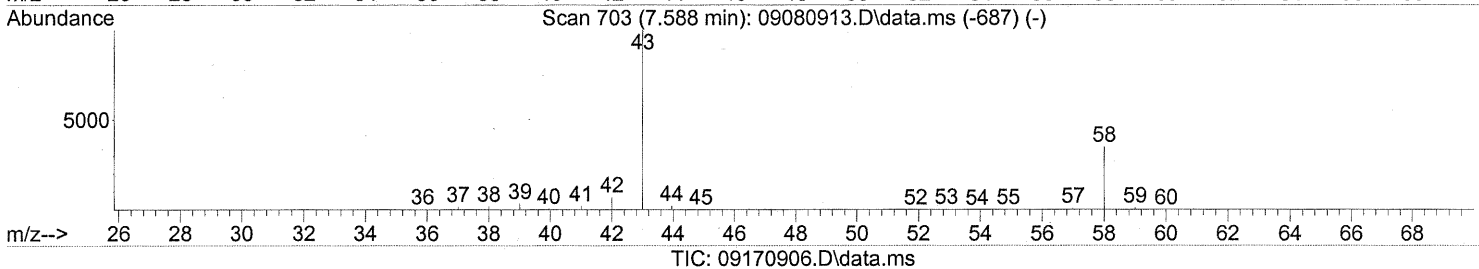
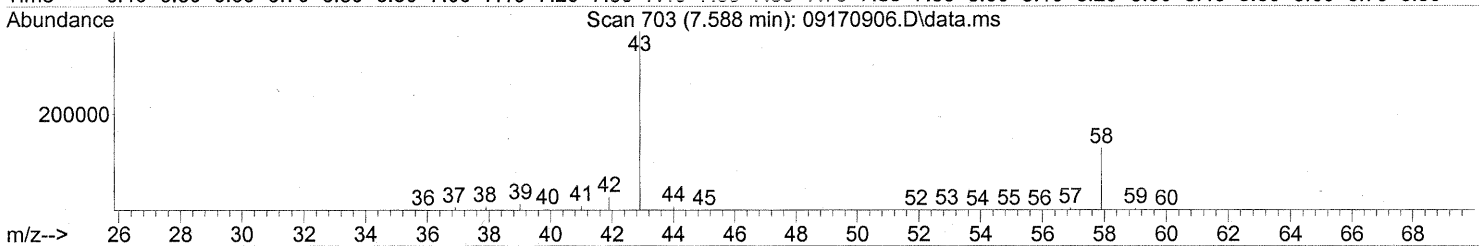
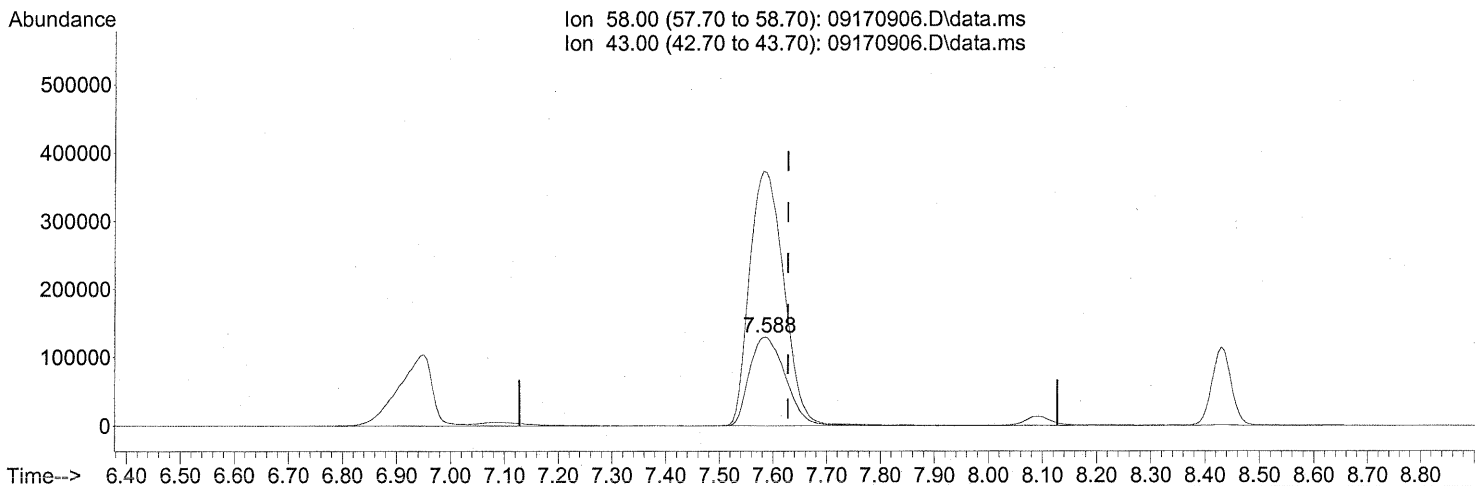
response 32936

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	68.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.588min (-0.040) 72.97ng

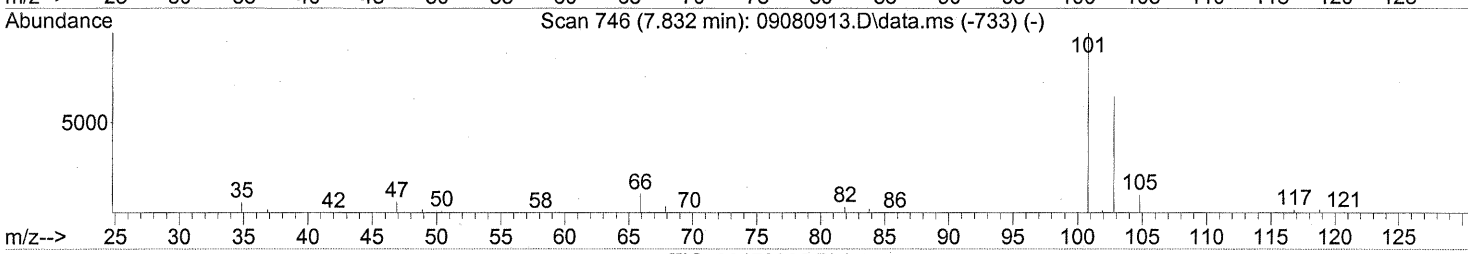
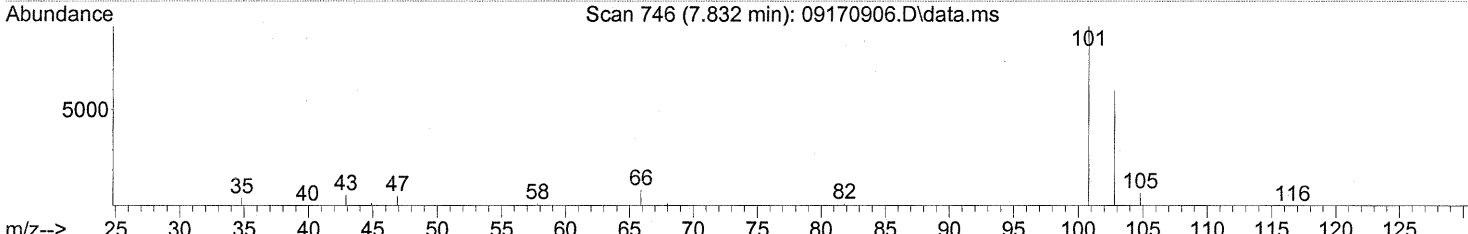
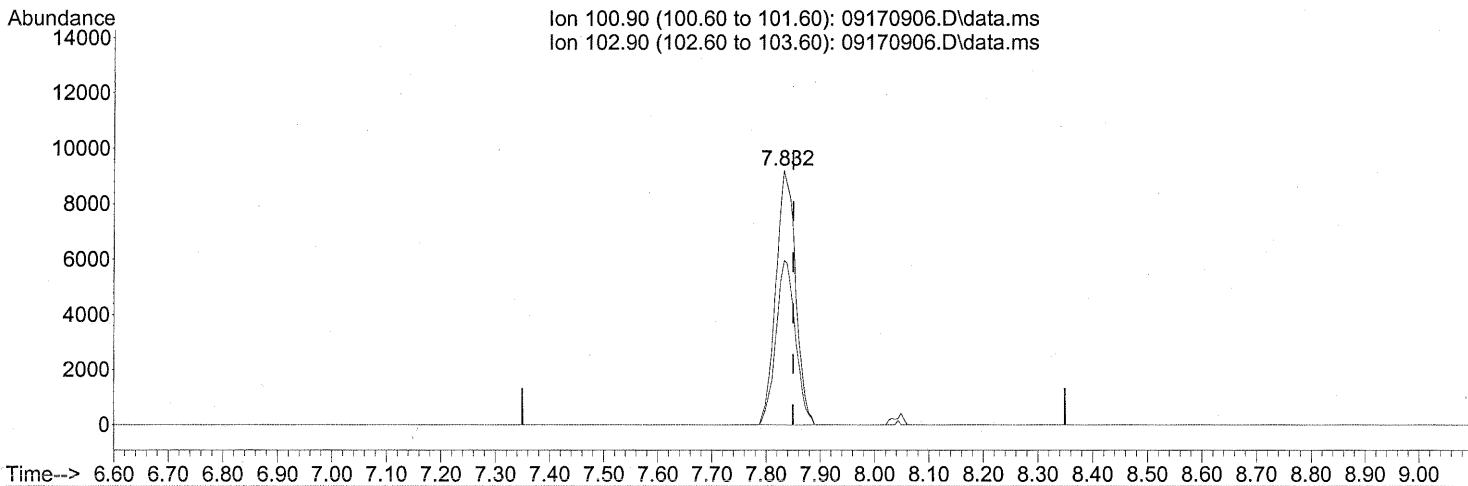
response 602380

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	276.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(14) Trichlorofluoromethane (T)

7.832min (-0.017) 1.16ng

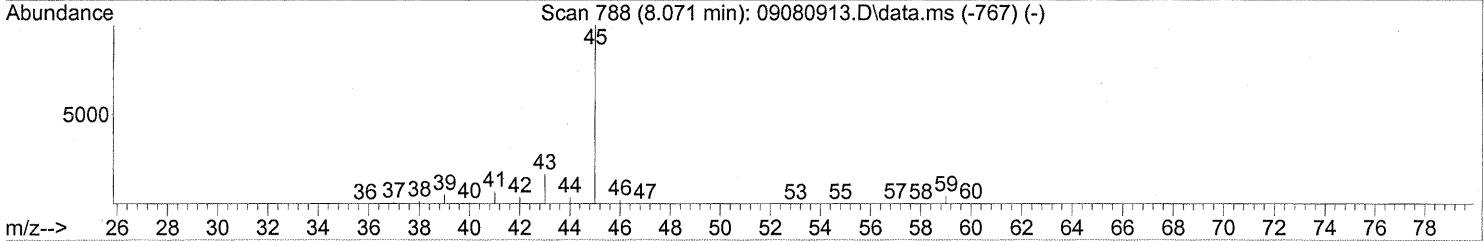
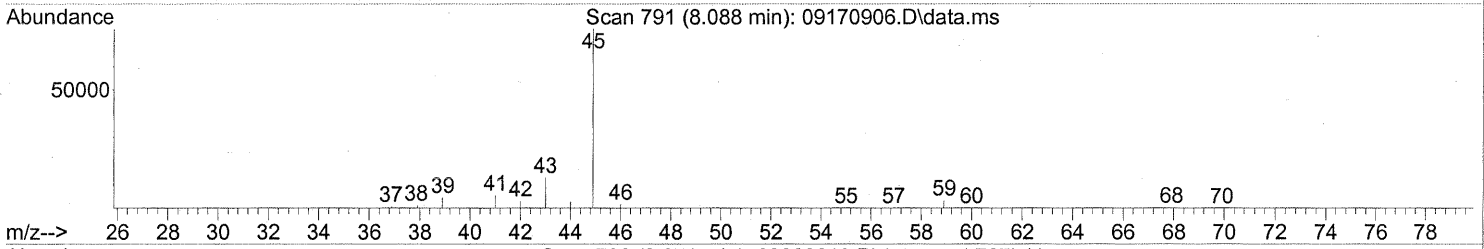
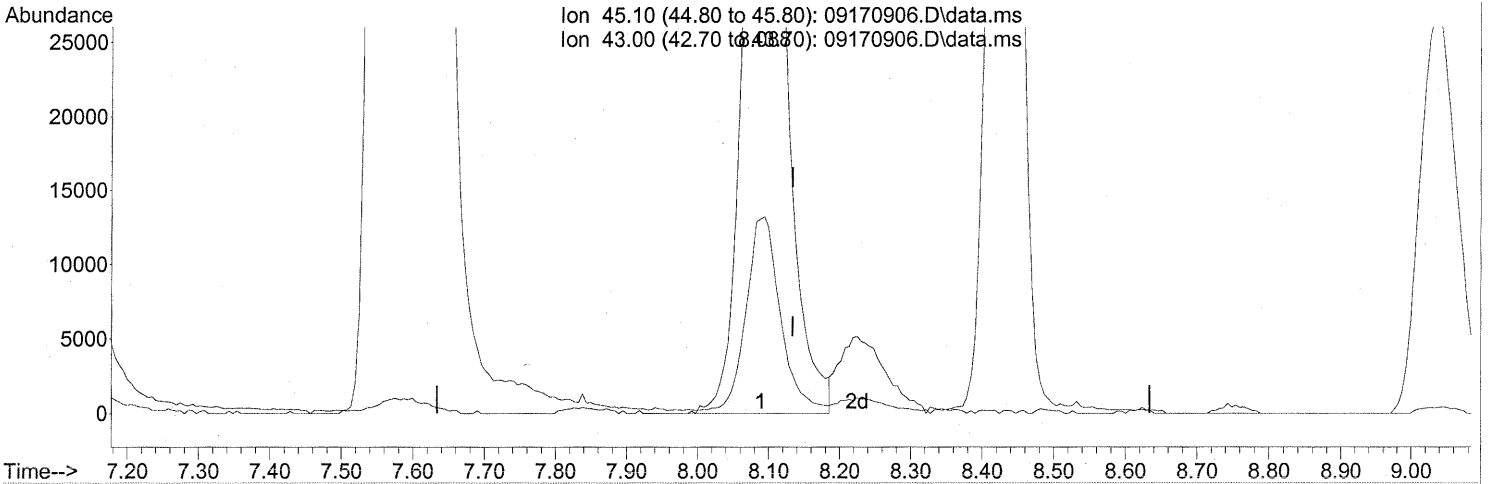
response 23318

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170906.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.088min (-0.046) 8.84ng

response 251414

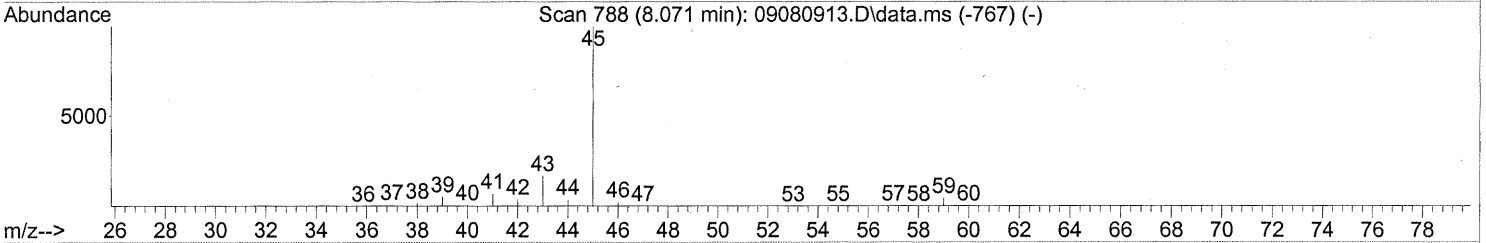
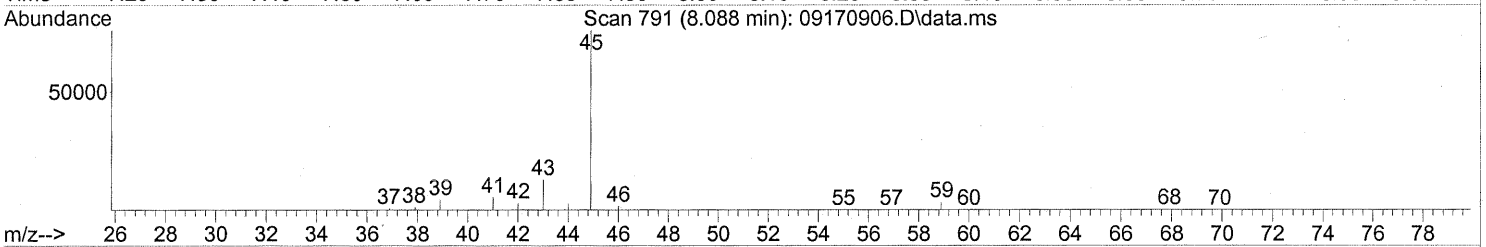
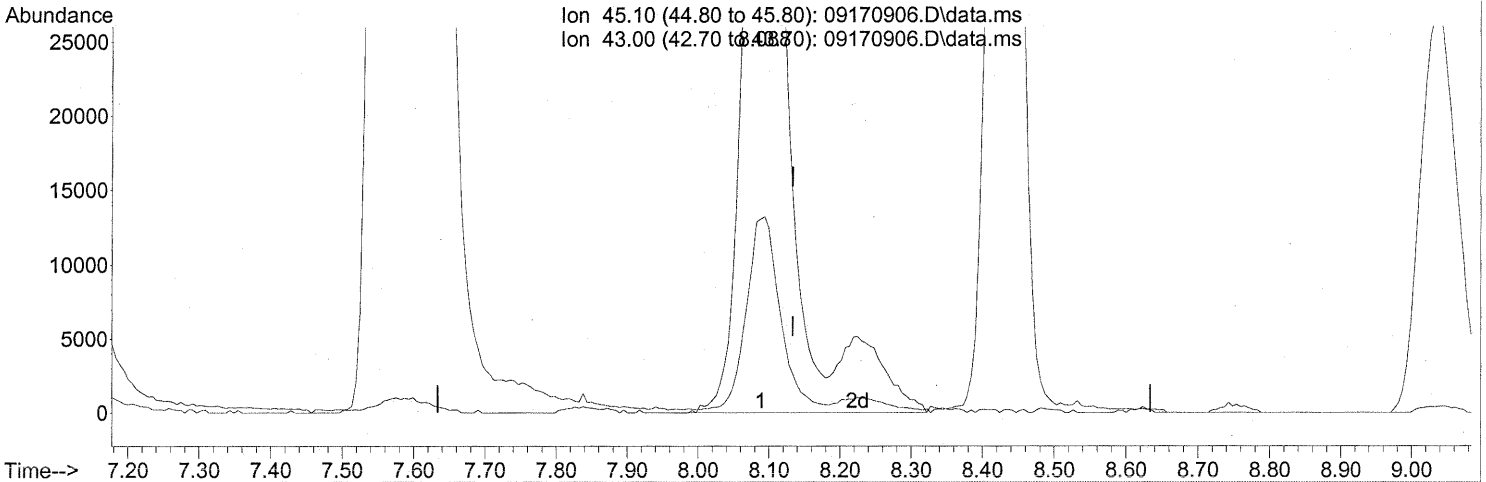
PT

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.088min (-0.046) 9.66ng m

response 274755

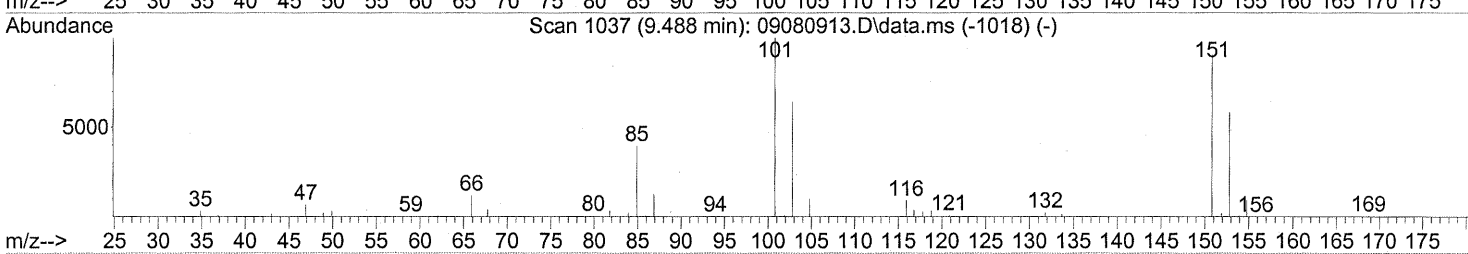
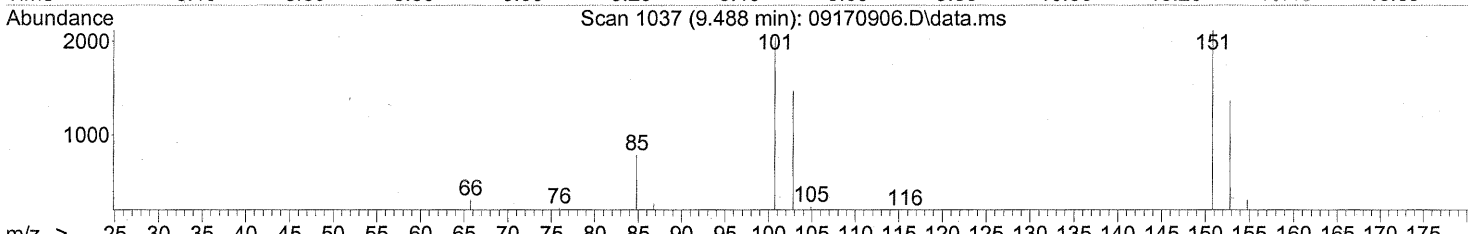
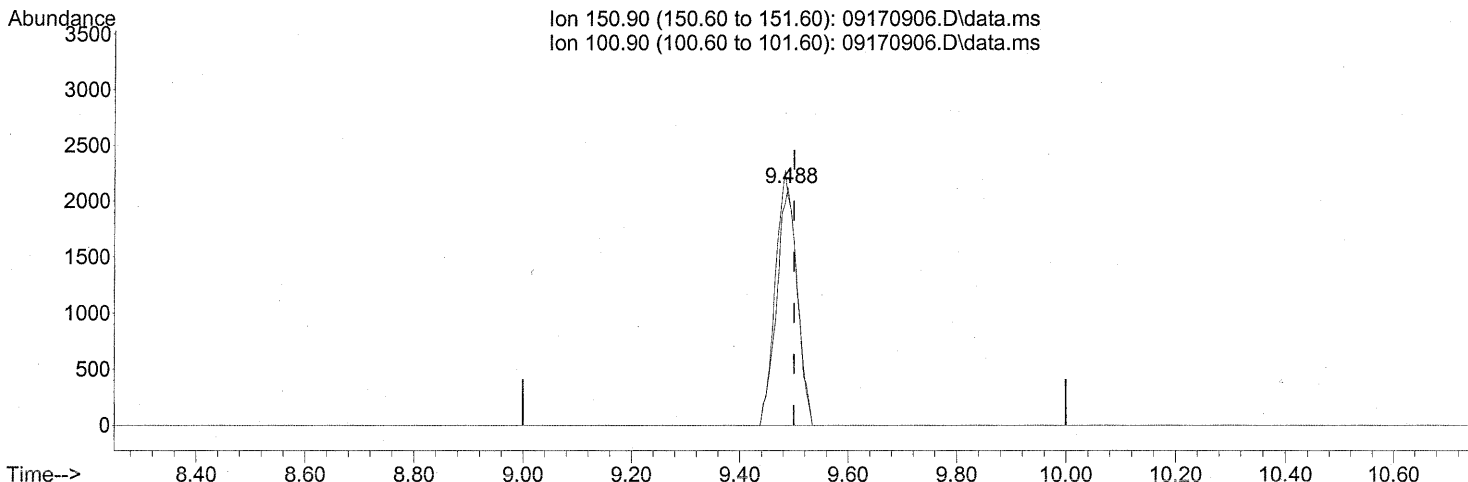
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.60
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
WA 9/21/09
Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.488min (-0.011) 0.57ng

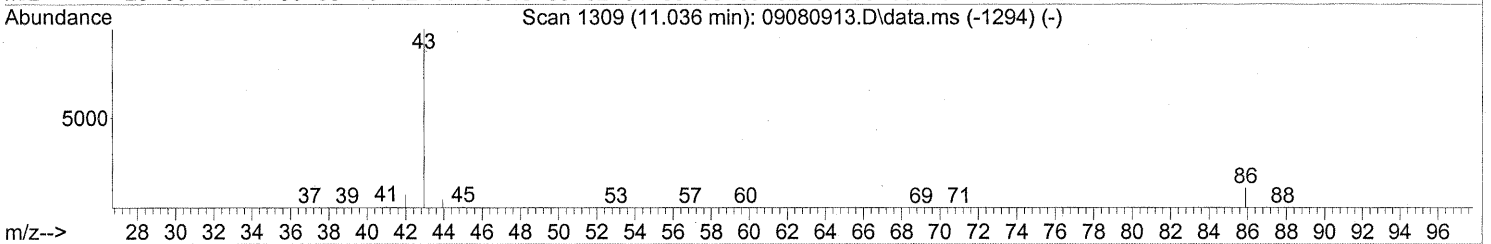
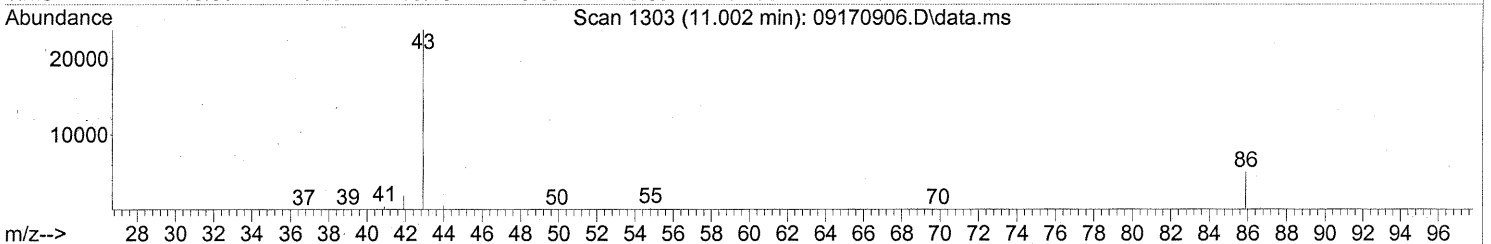
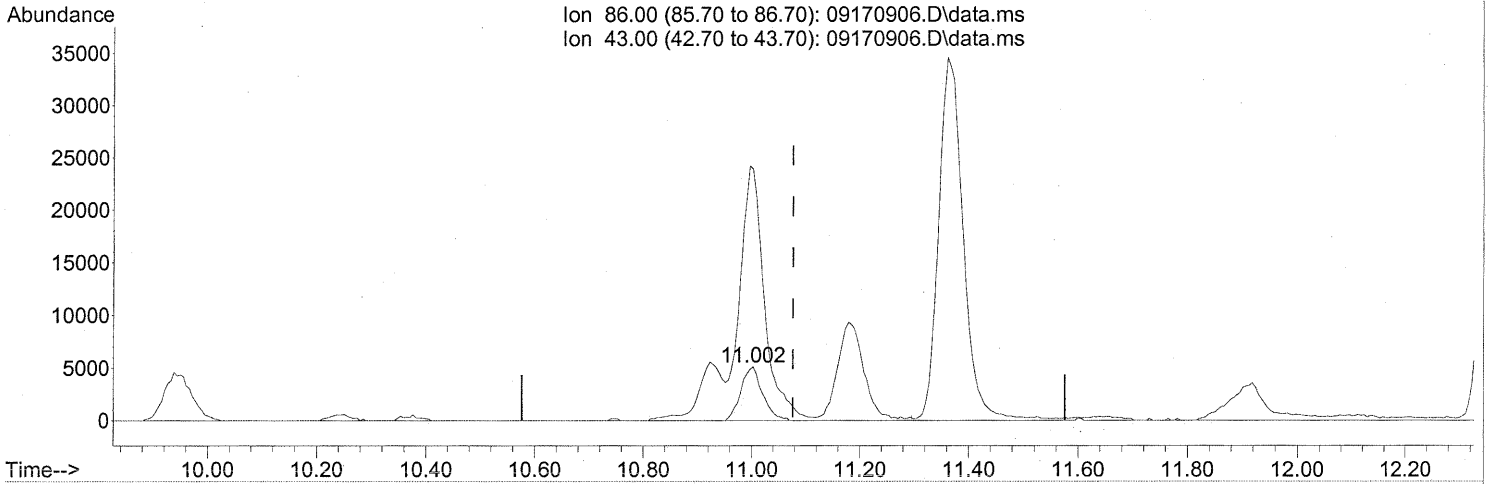
response 5644

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	107.96#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.002min (-0.074) 5.69ng

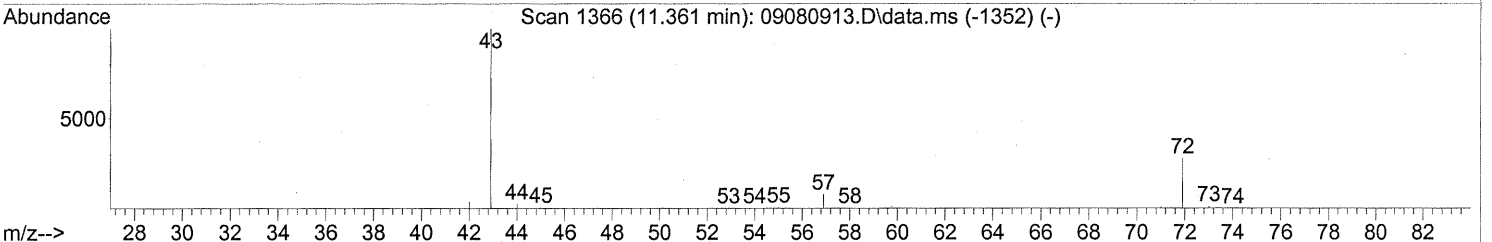
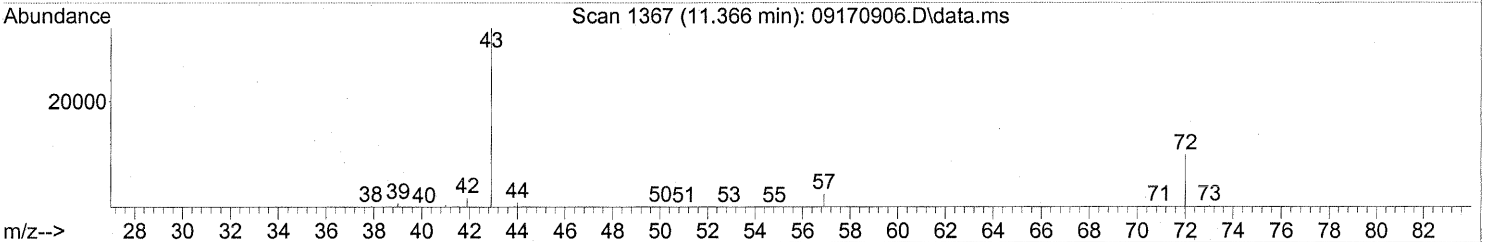
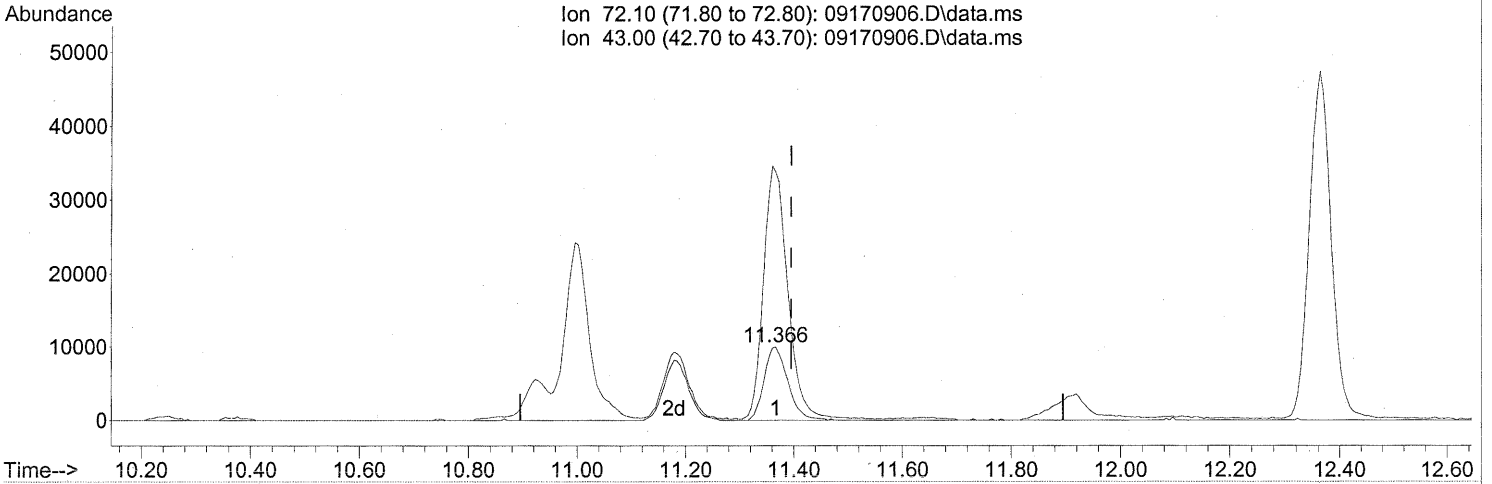
response 14145

Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	528.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(27) 2-Butanone (MEK) (T)

11.366min (-0.028) 3.80ng

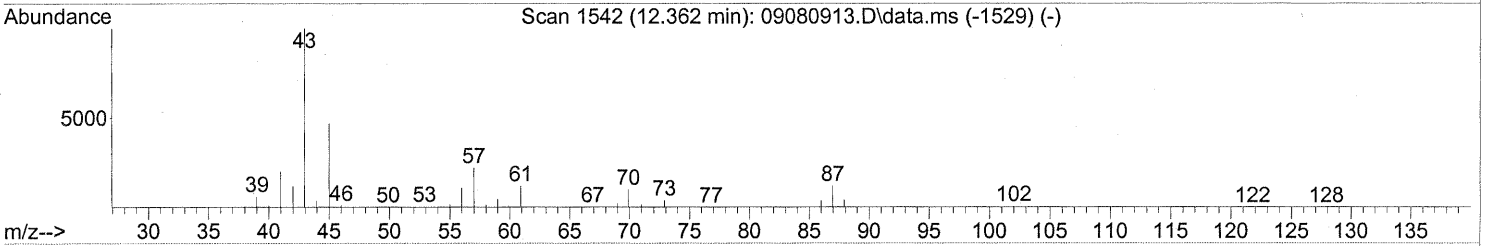
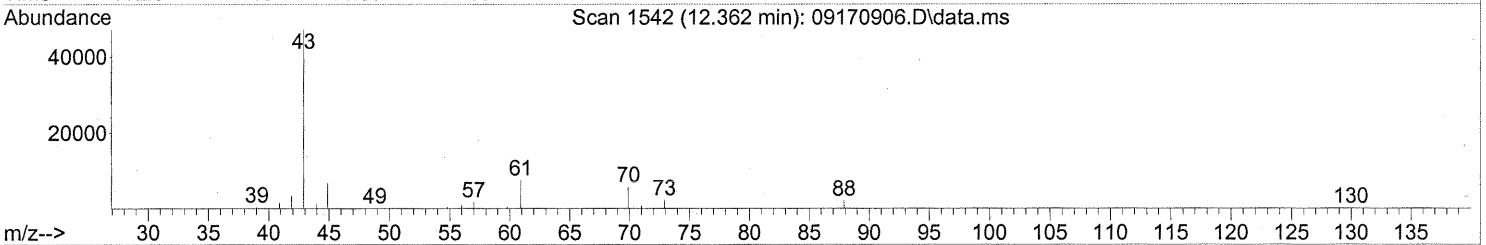
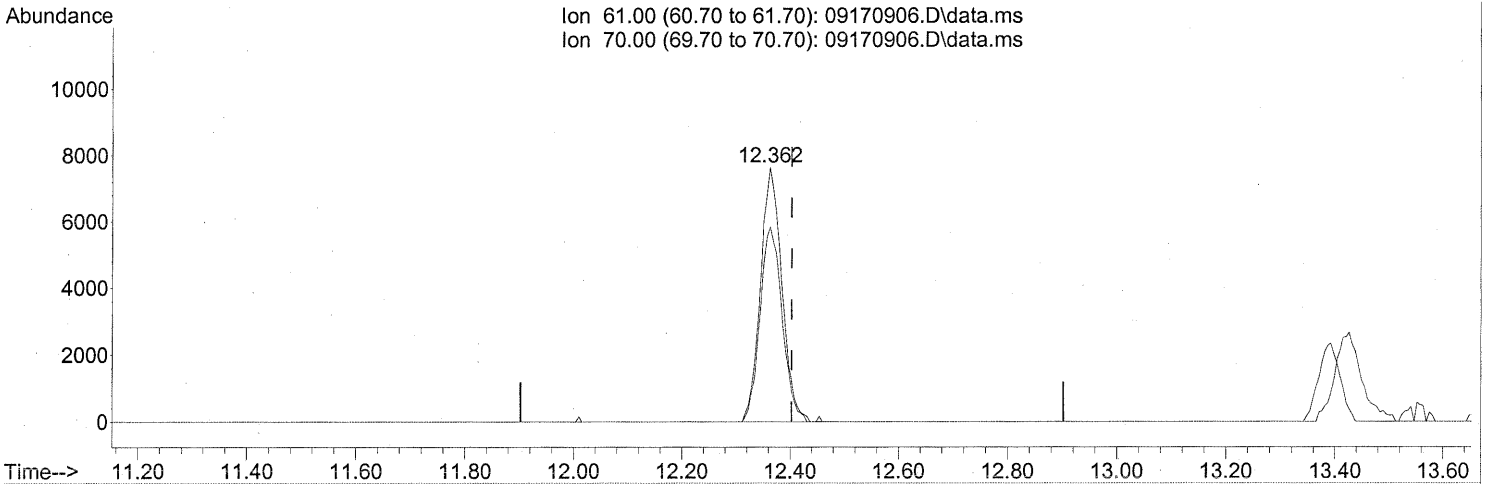
response 30160

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	352.85#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170906.D\data.ms

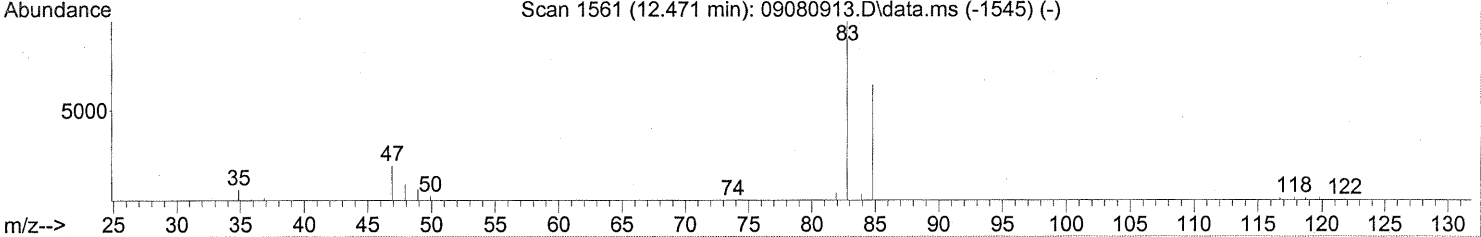
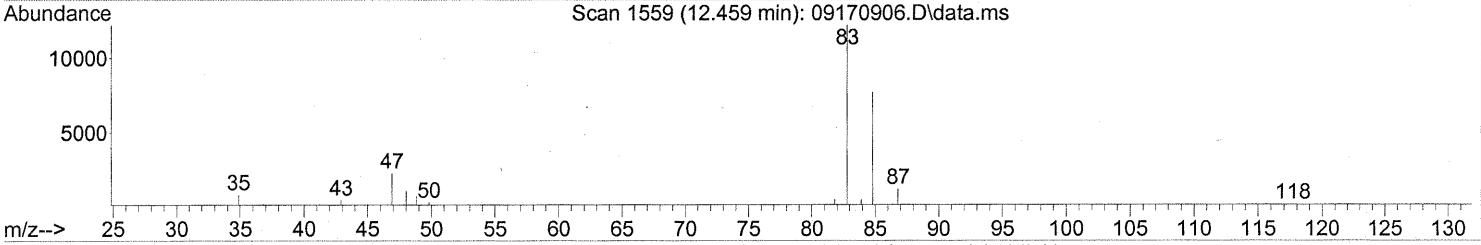
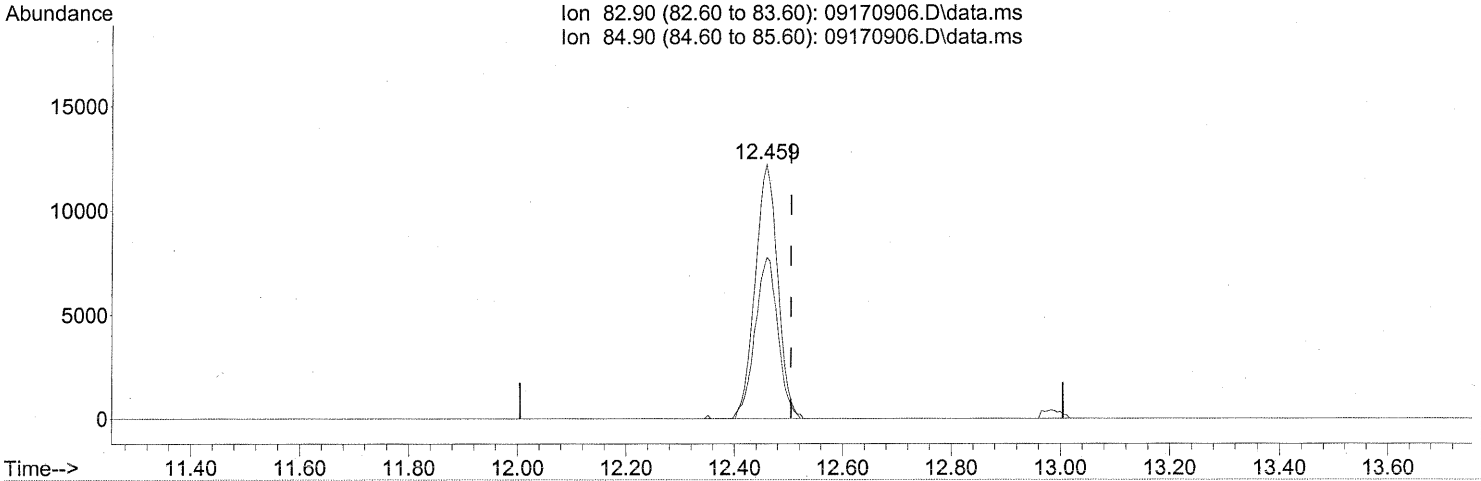
(30) Ethyl Acetate (T)
12.362min (-0.040) 5.19ng
response 20909

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	79.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

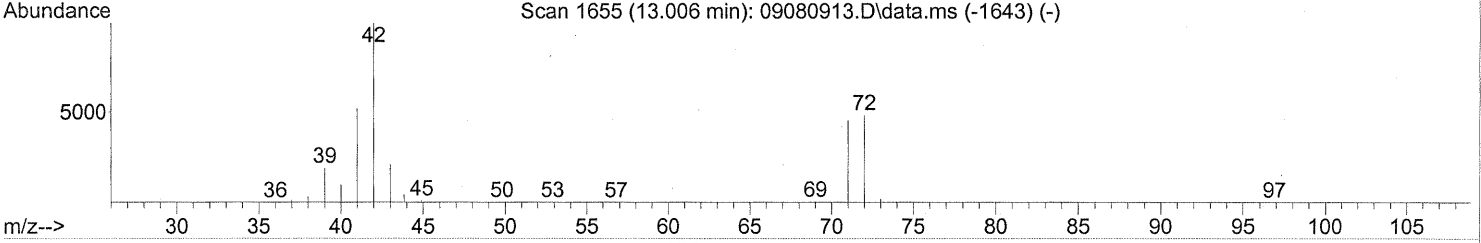
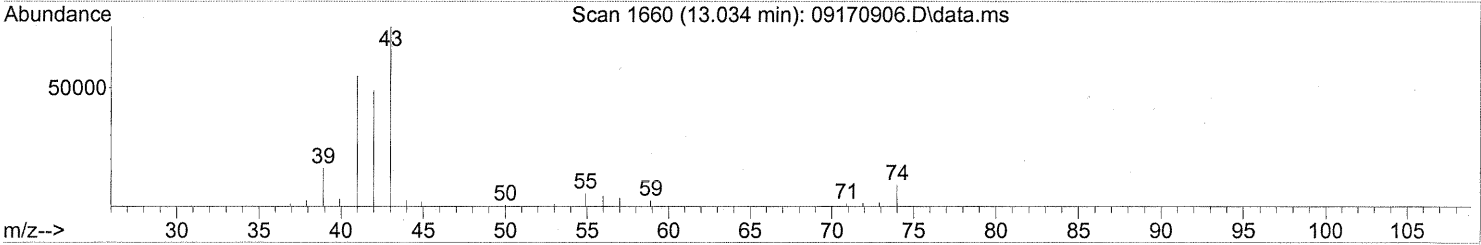
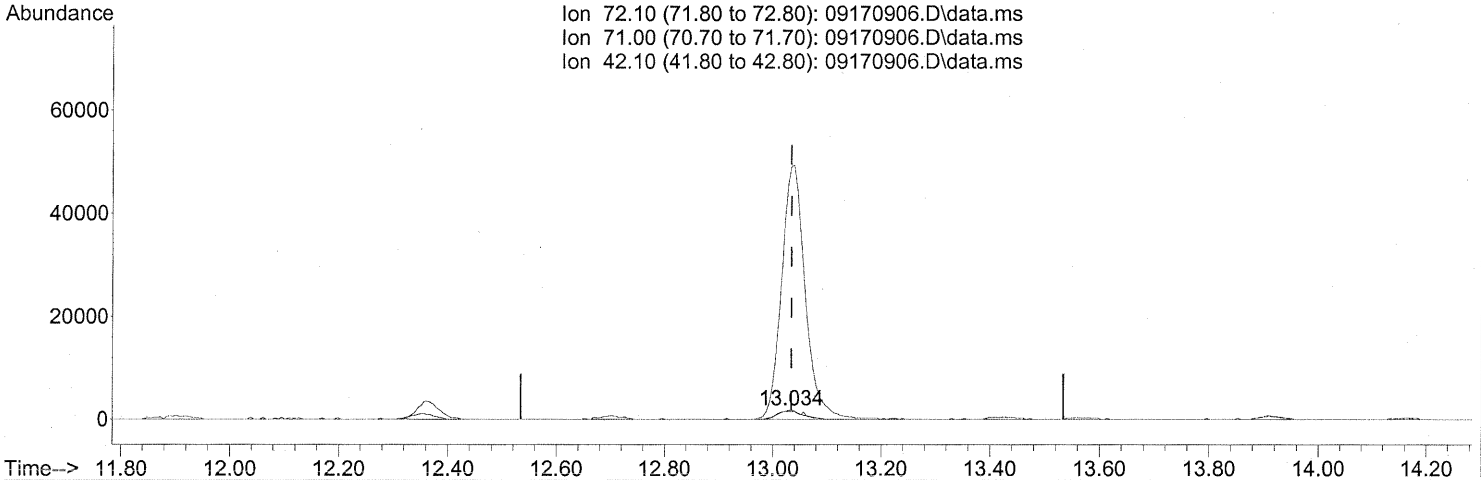
(32) Chloroform (T)
 12.459min (-0.046) 1.82ng
 response 35544

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	64.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.034min (0.000) 0.75ng

response 5509

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	96.46
42.10	240.00	2715.94#
0.00	0.00	0.00

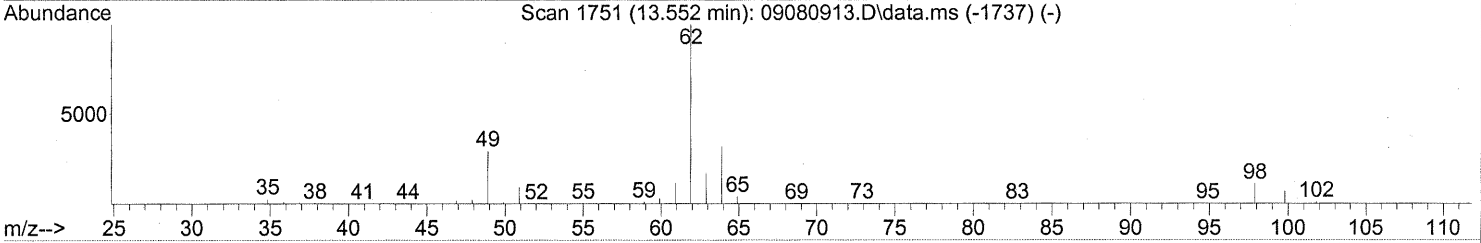
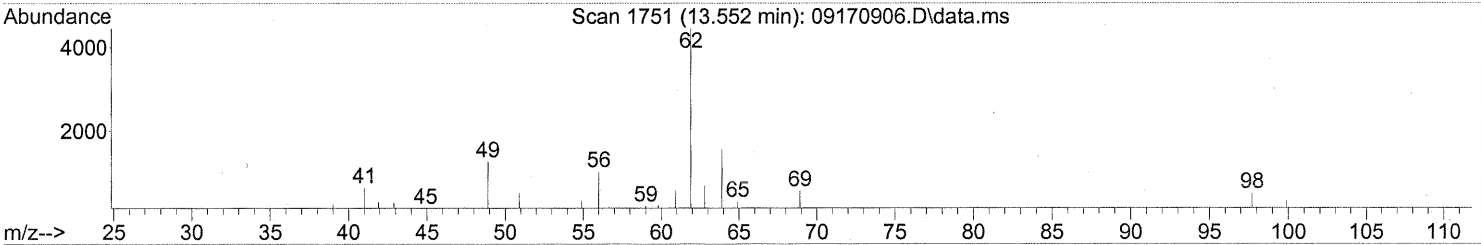
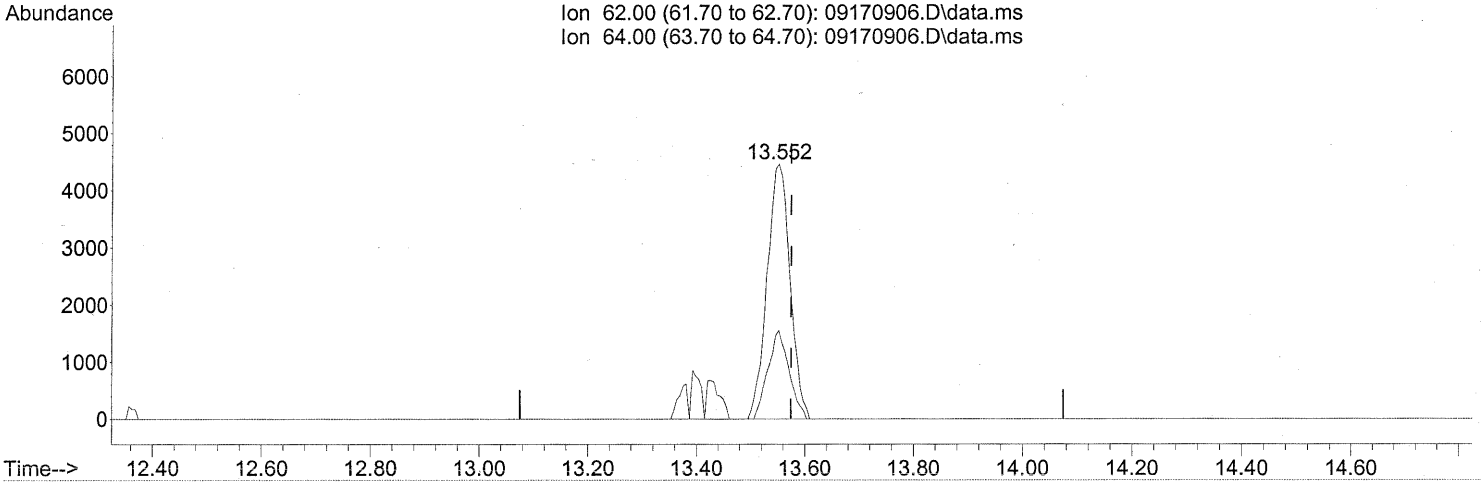
FP in 9/21/09

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170906.D\data.ms

(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 0.97ng

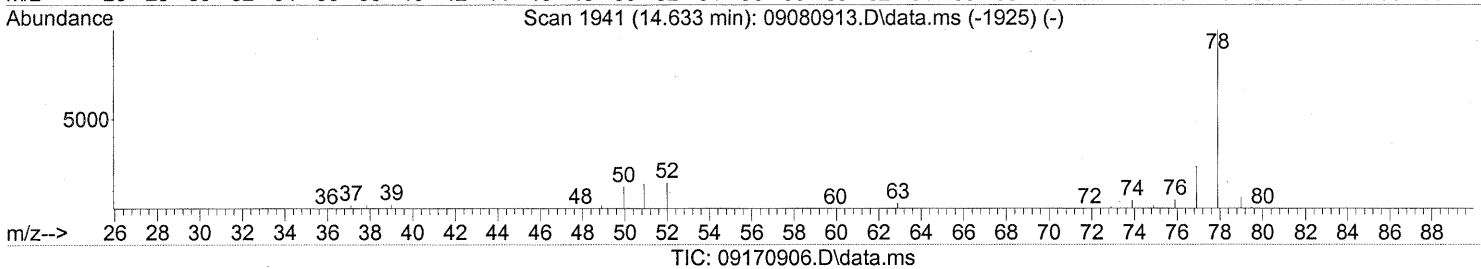
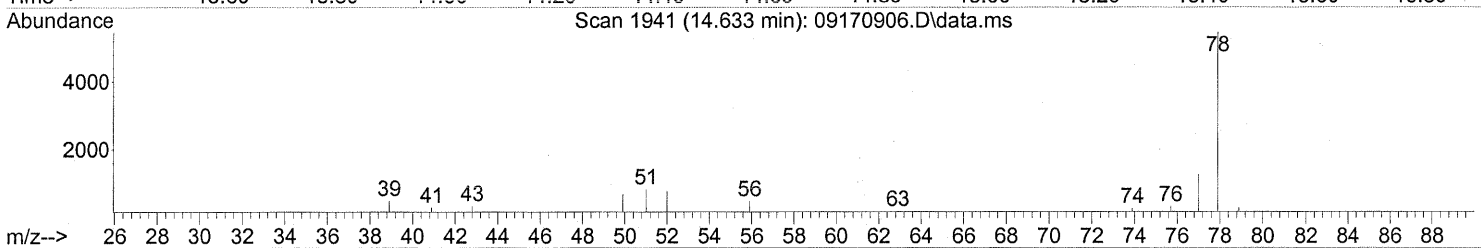
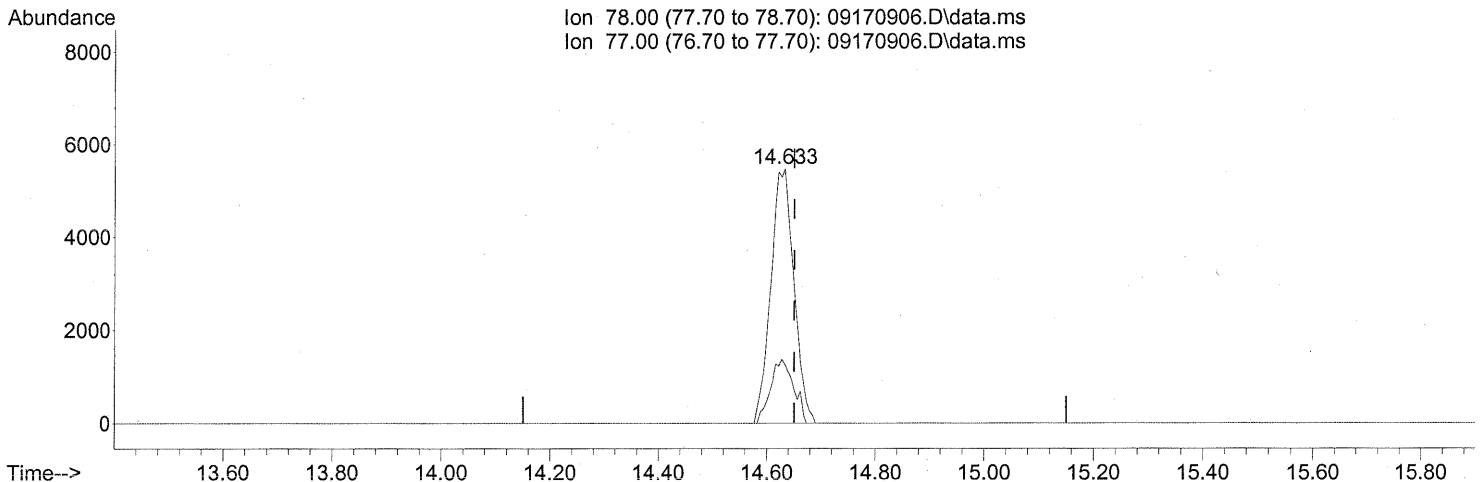
response 13148

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(41) Benzene (T)

14.633min (-0.017) 0.34ng

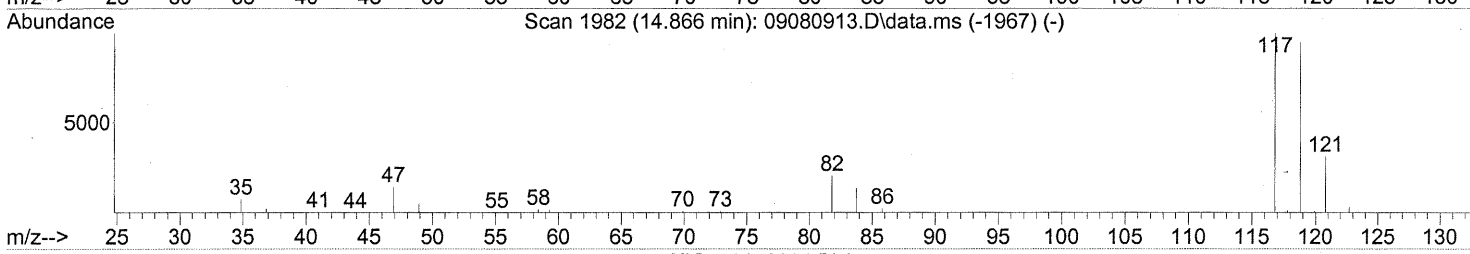
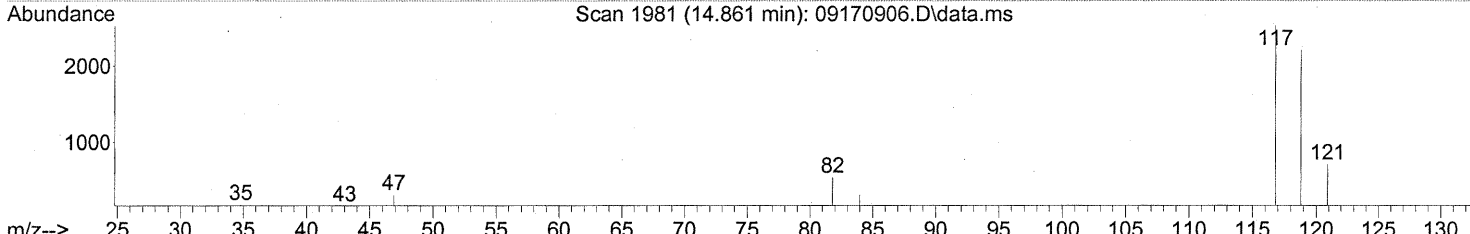
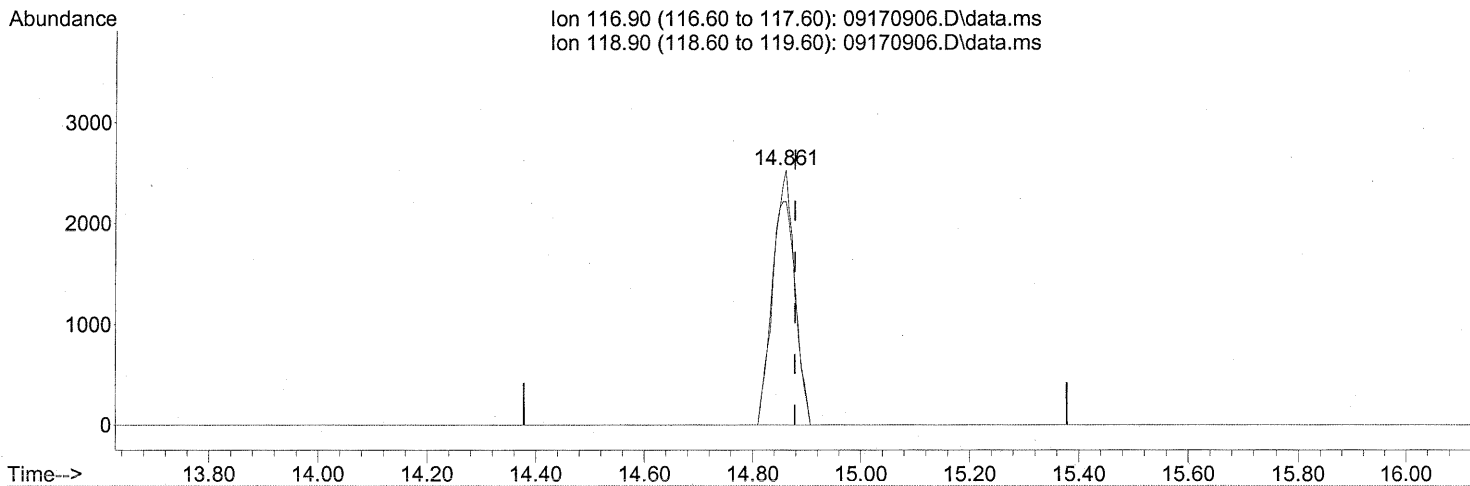
response 16185

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	24.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(42) Carbon Tetrachloride (T)

14.861min (-0.017) 0.49ng

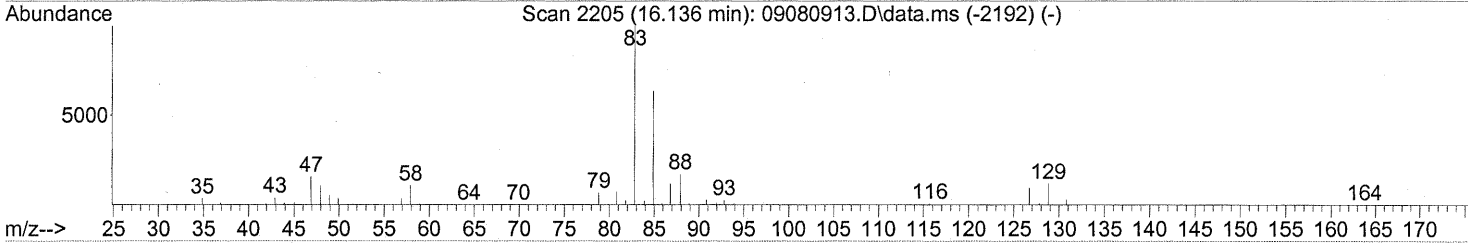
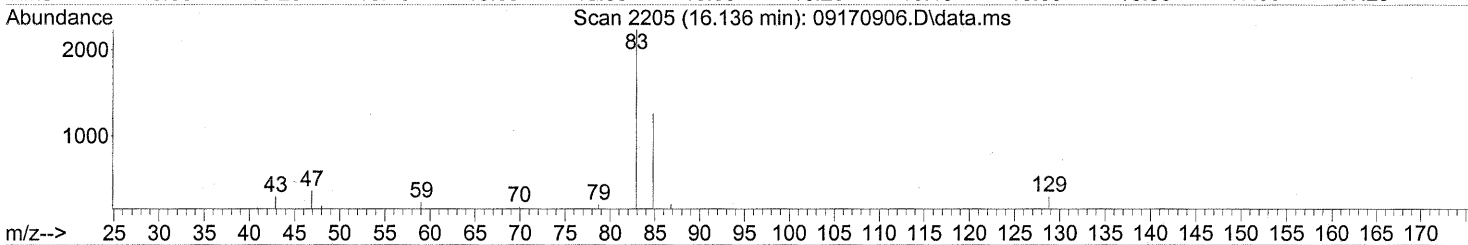
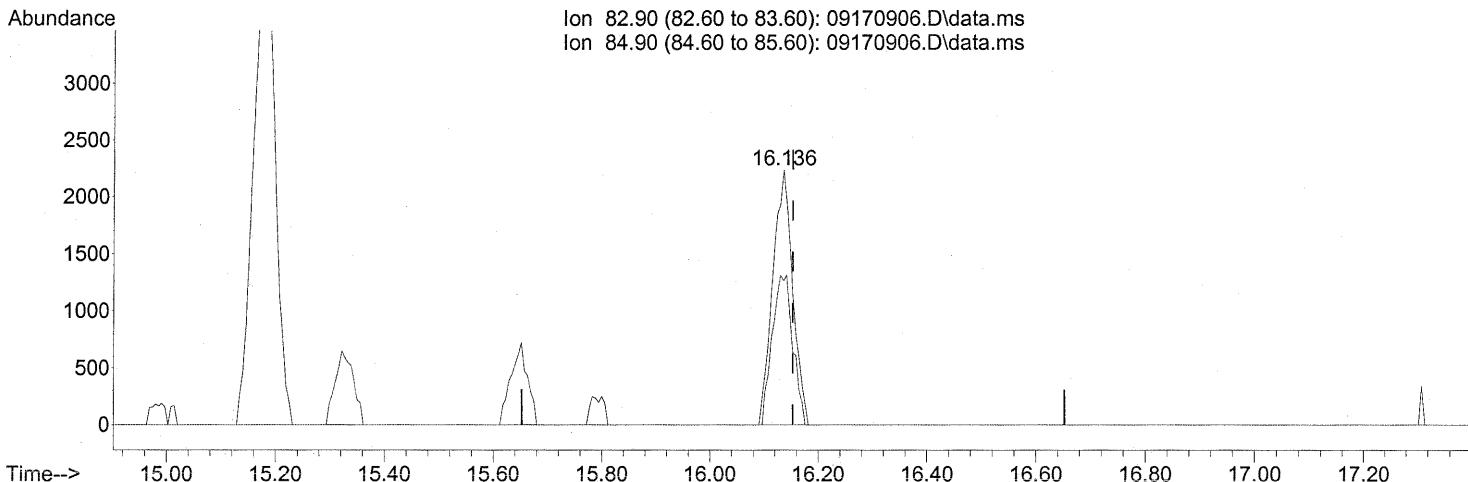
response 7048

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	95.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(46) Bromodichloromethane (T)

16.136min (-0.017) 0.38ng

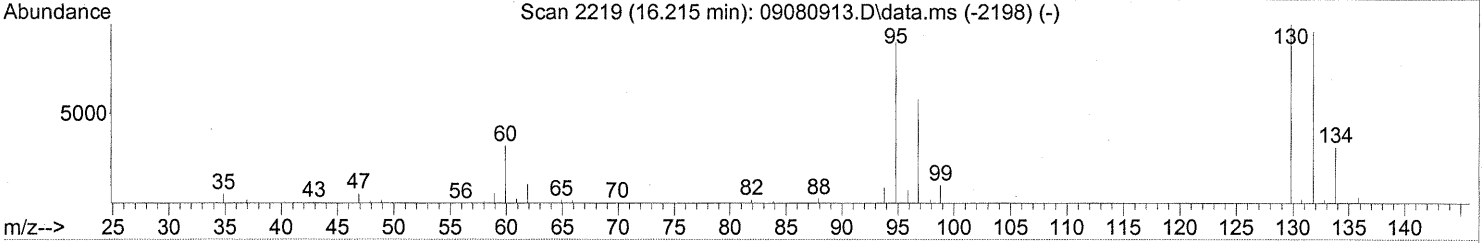
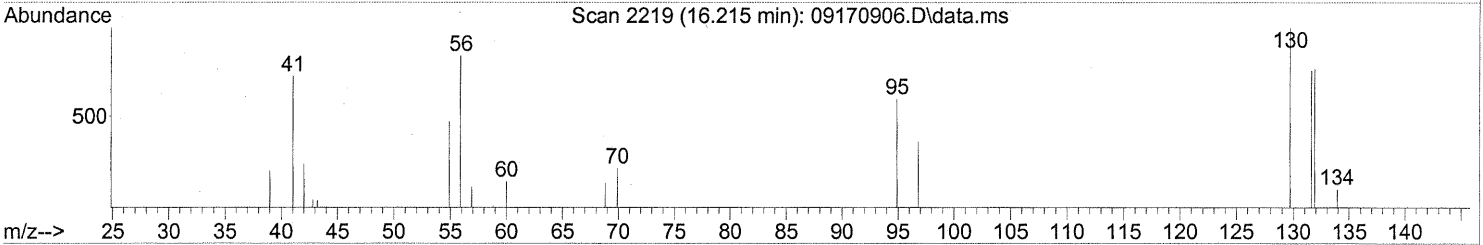
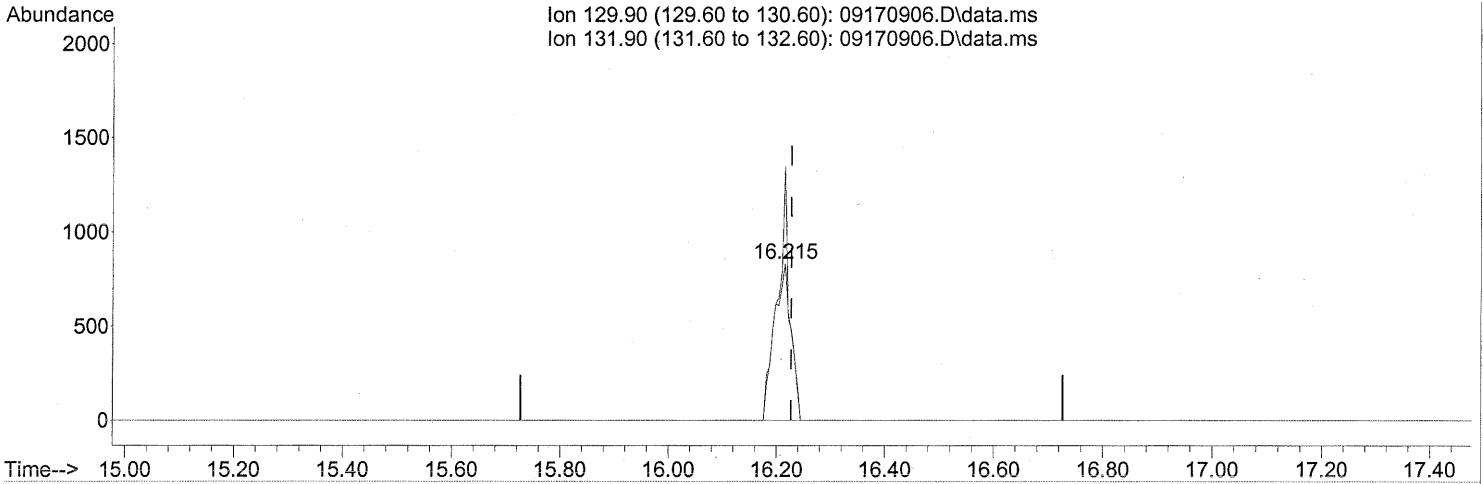
response 5693

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	60.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170906.D\data.ms

(47) Trichloroethene (T)

16.215min (-0.011) 0.13ng

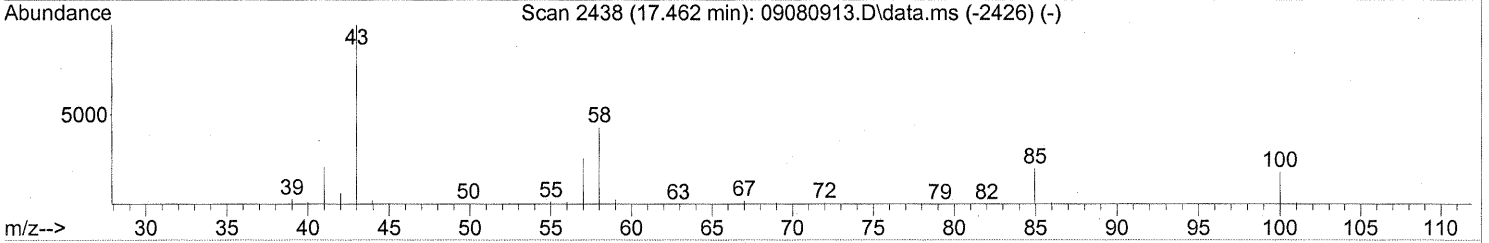
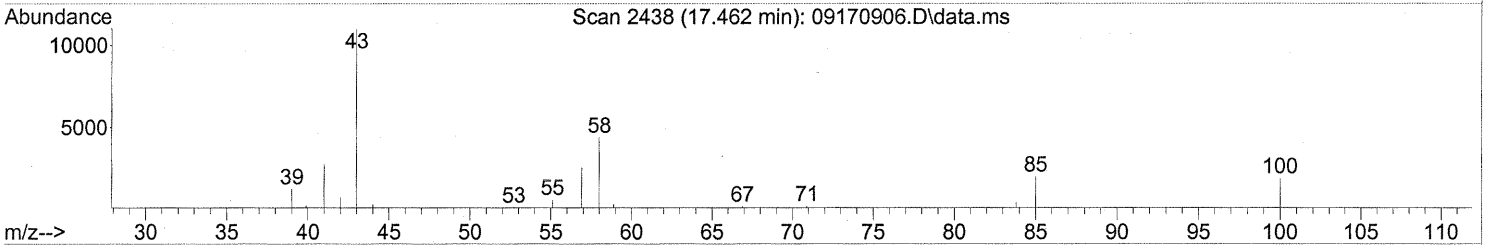
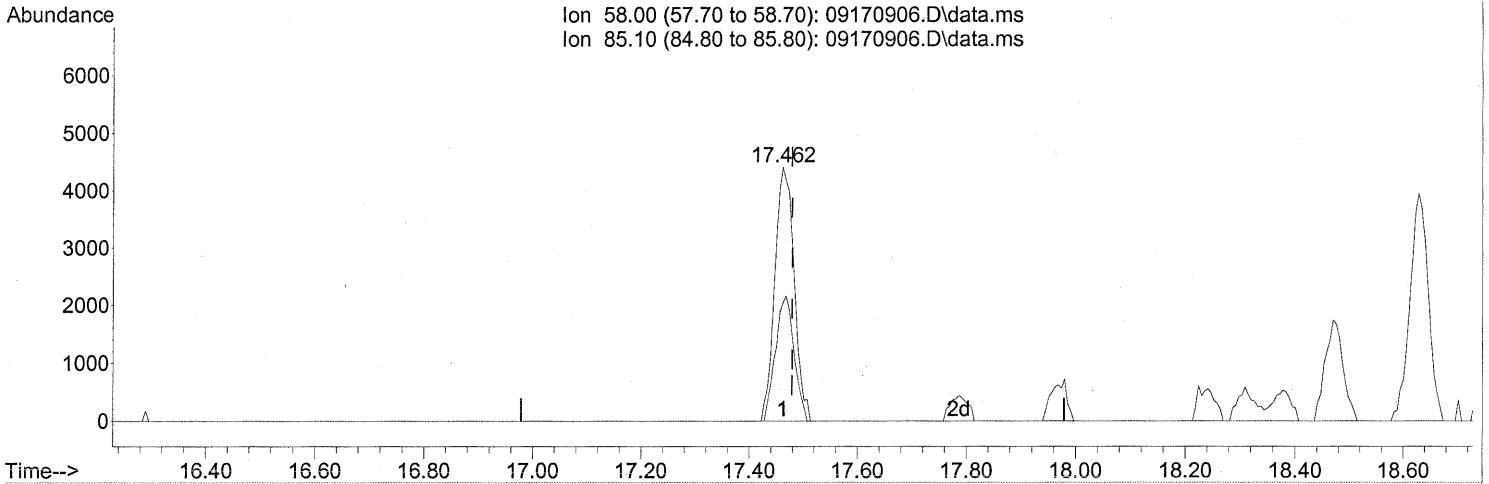
response 1819

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	112.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 1.02ng

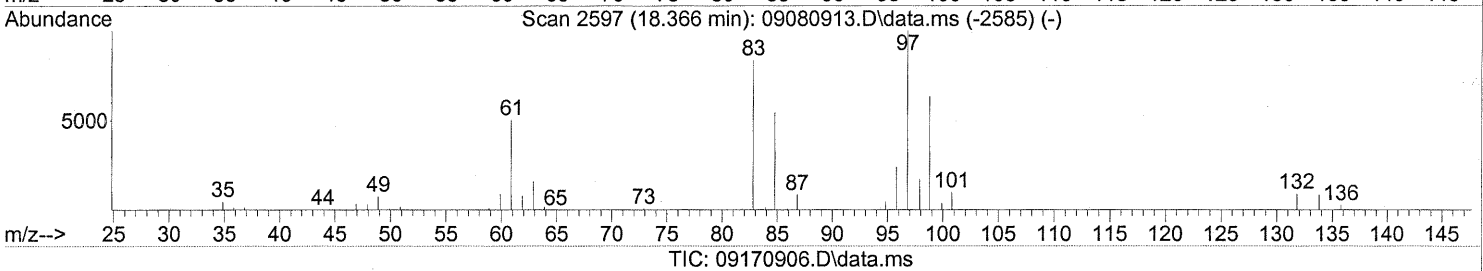
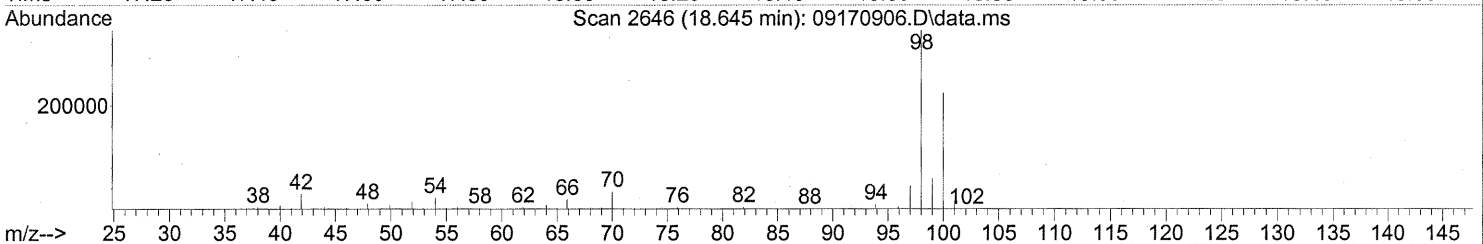
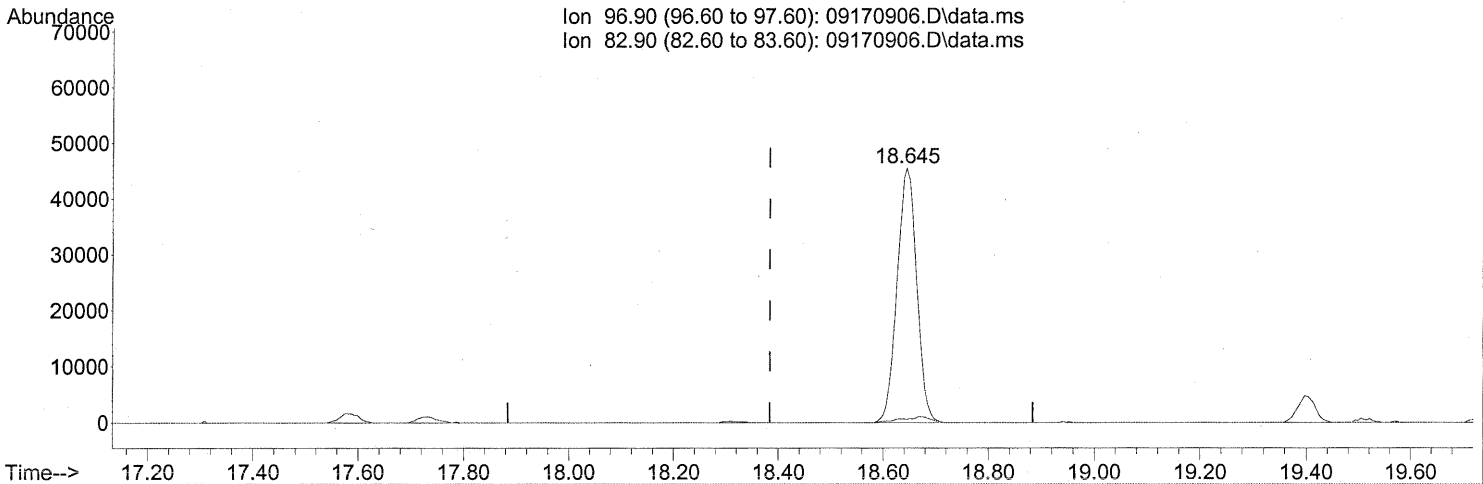
response 10855

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.87ng

response 118693

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	1.53#
0.00	0.00	0.00
0.00	0.00	0.00

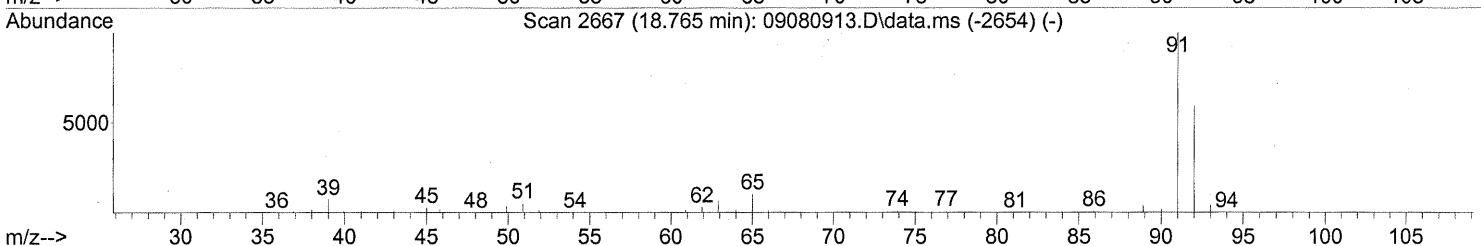
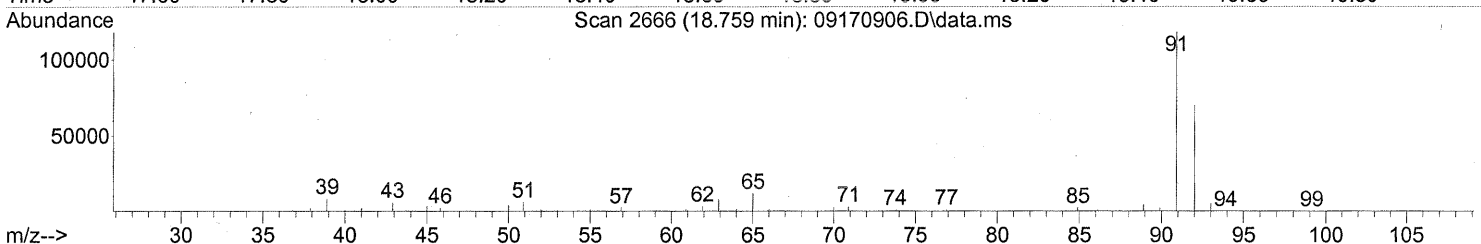
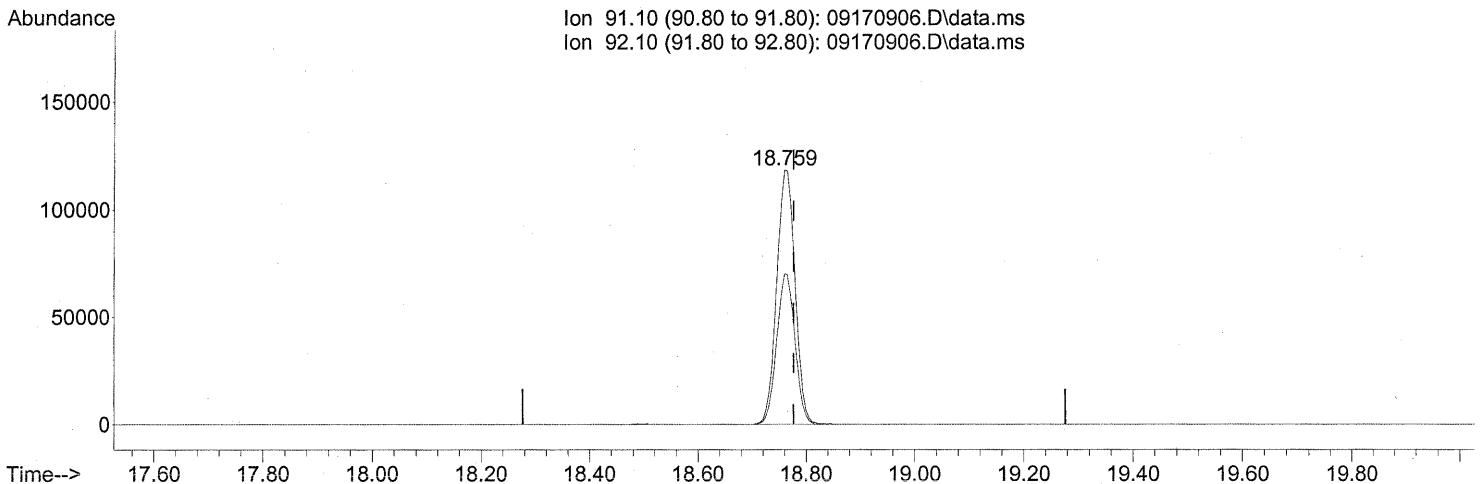
FP at 9/21/09

can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(58) Toluene (T)

18.759min (-0.017) 5.28ng

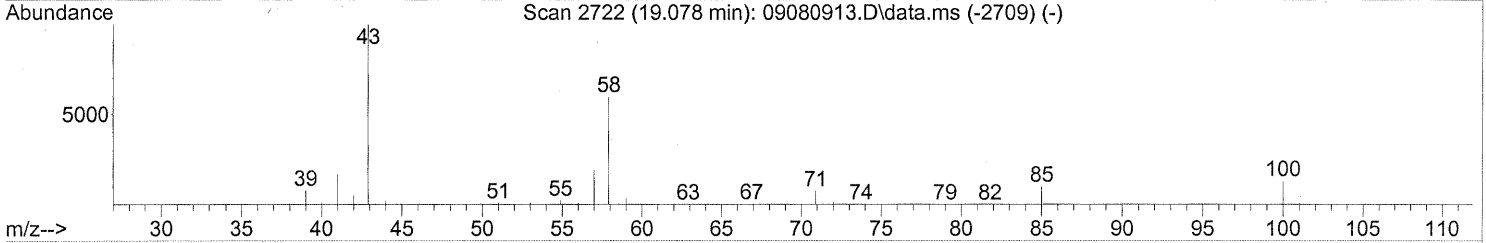
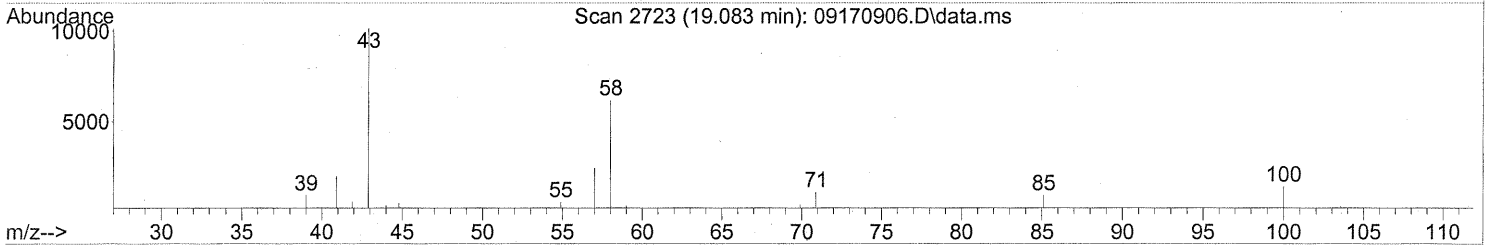
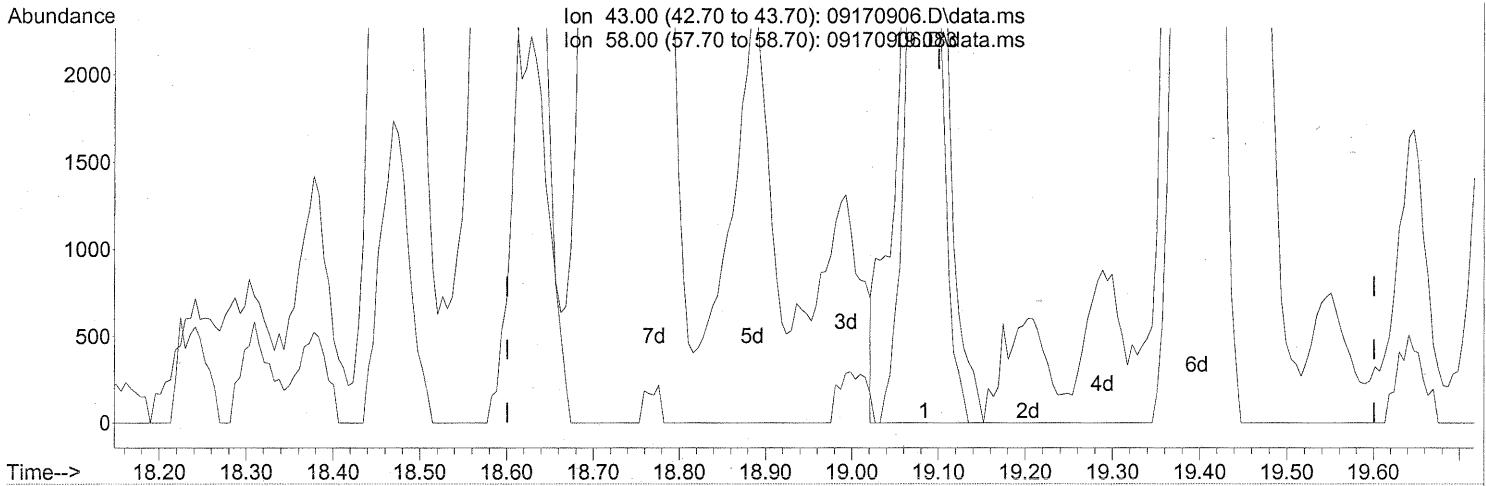
response 278702

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 10:51:53 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.083min (-0.017) 0.99ng
 response 25094

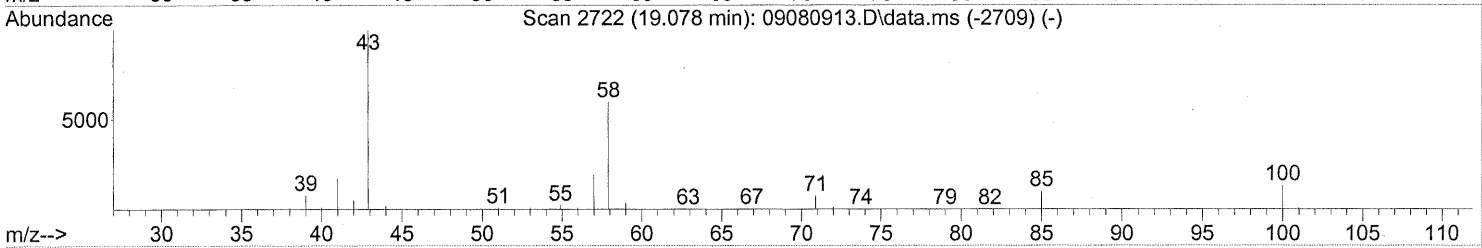
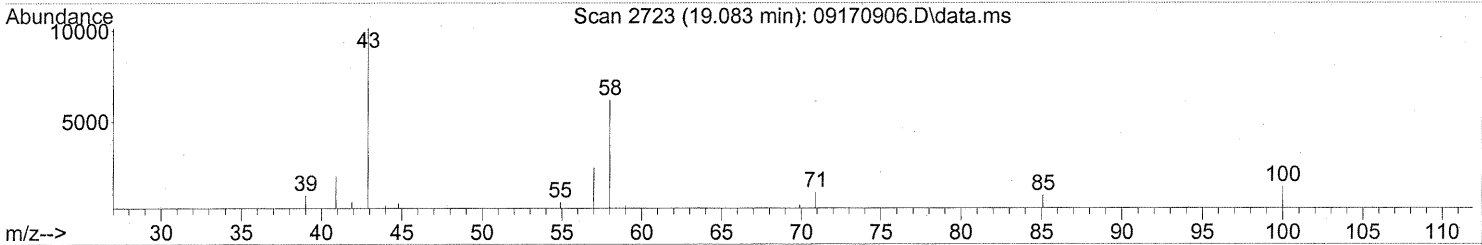
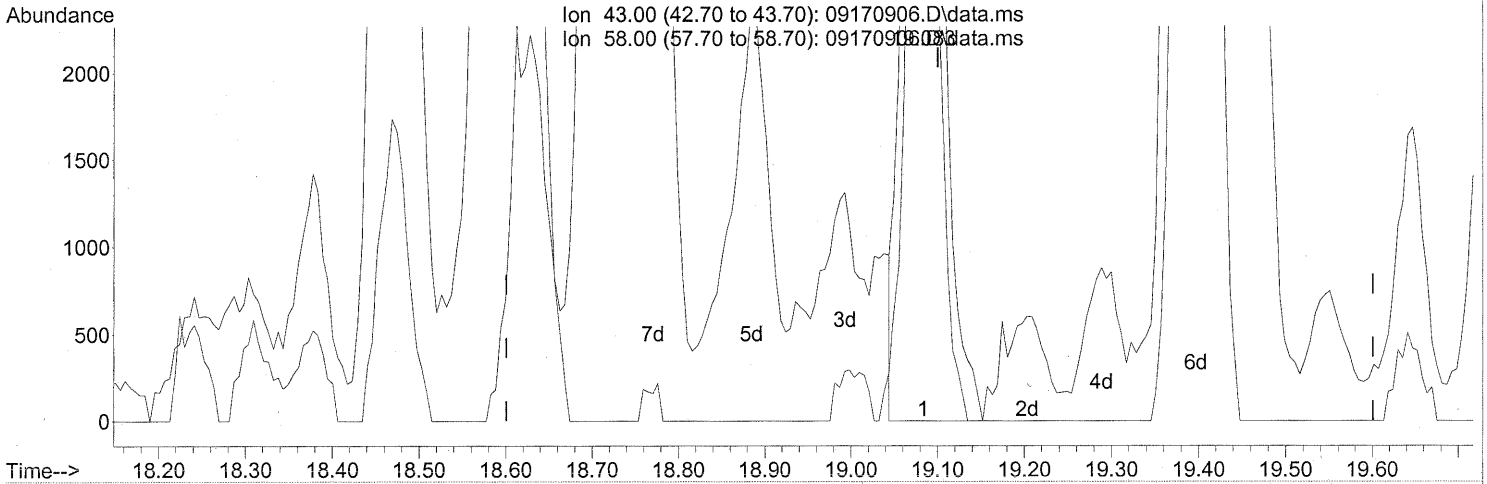
1P1

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	52.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 18 10:51:53 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(59) 2-Hexanone (T)
 19.083min (-0.017) 0.94ng m
 response 23796

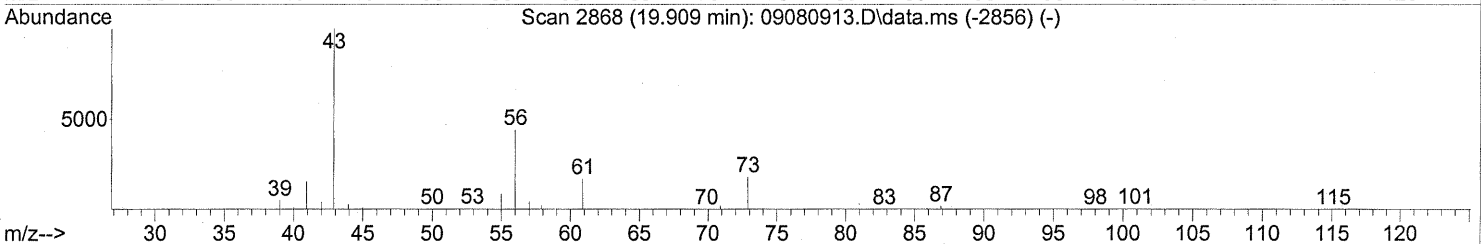
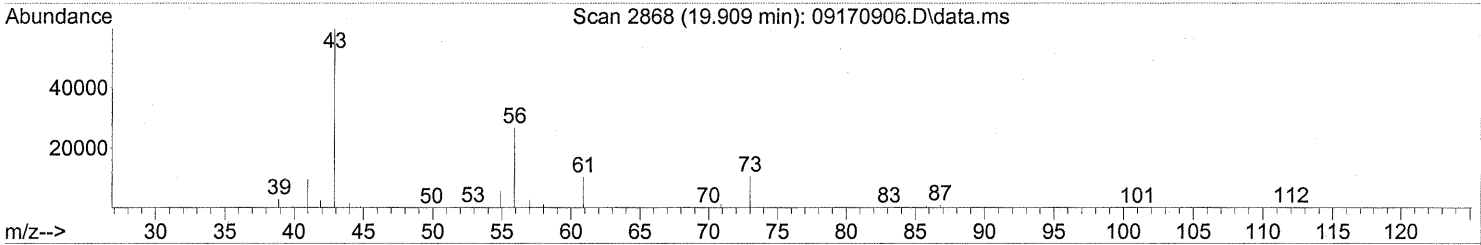
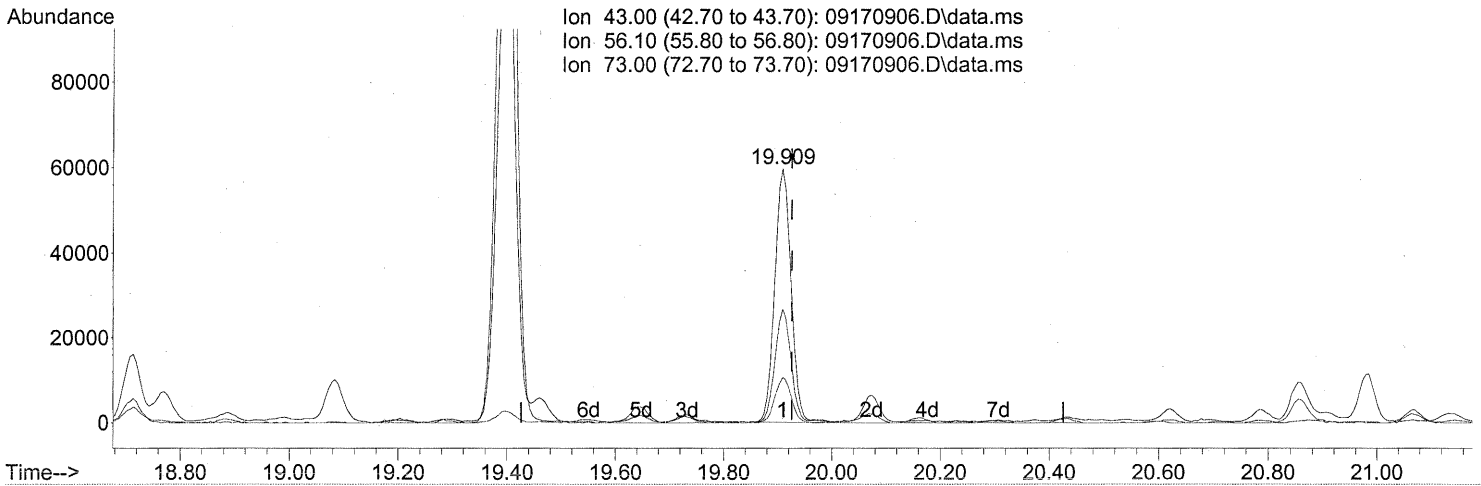
Ion	Exp%	Act%
43.00	100	100
58.00	55.60	55.25
0.00	0.00	0.00
0.00	0.00	0.00

*1P1 → IC
 in 9/21/09
 can 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

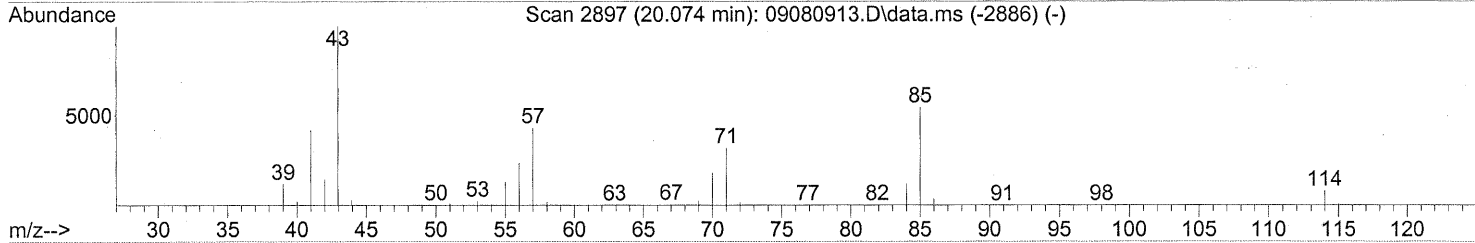
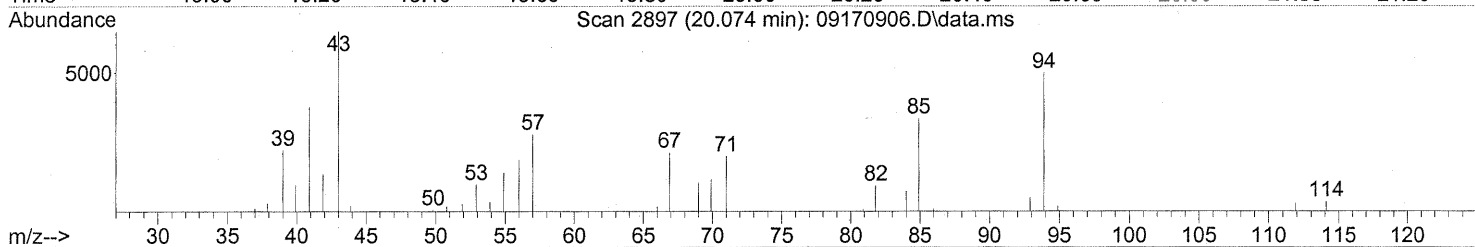
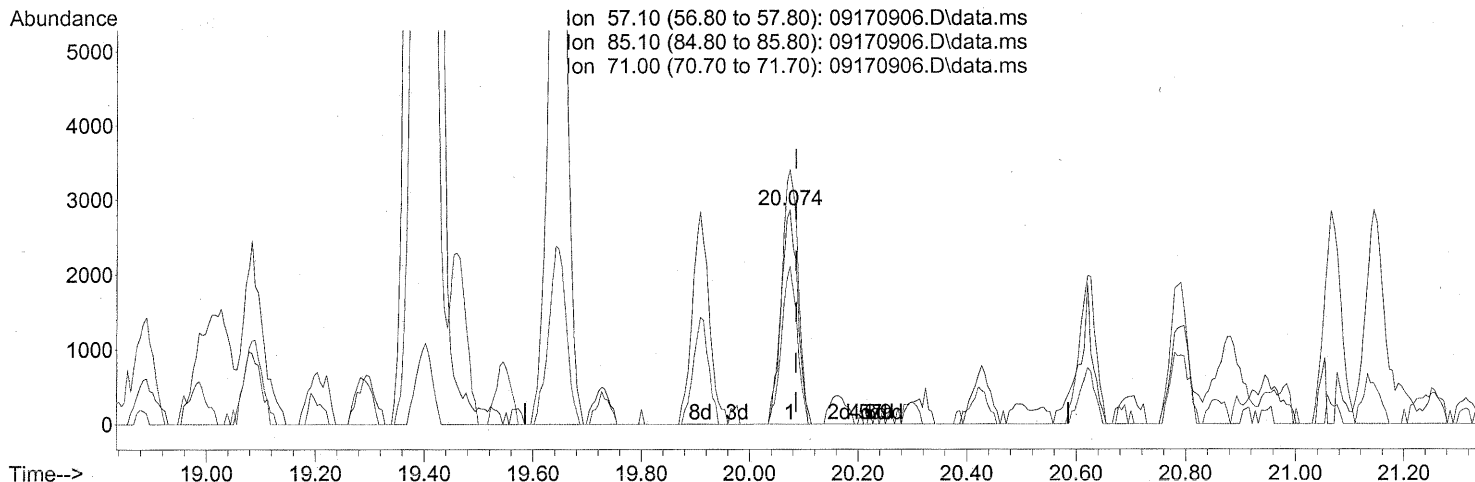
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 4.25ng
 response 123866

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	44.51
73.00	15.40	18.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 21 11:43:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



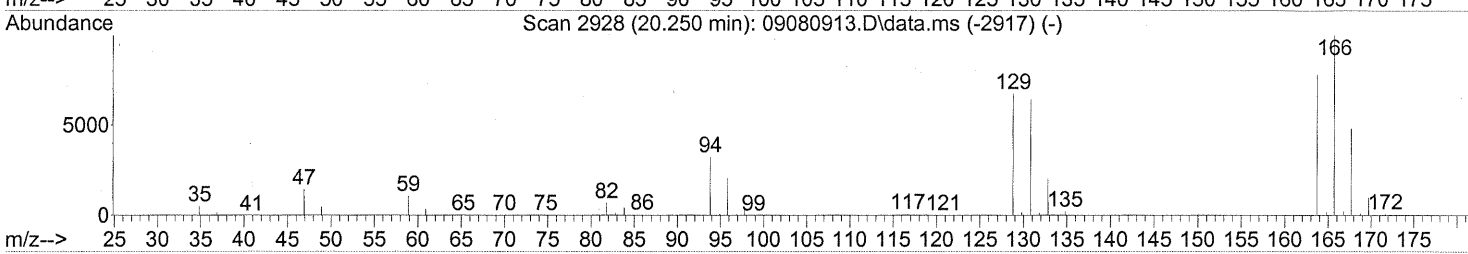
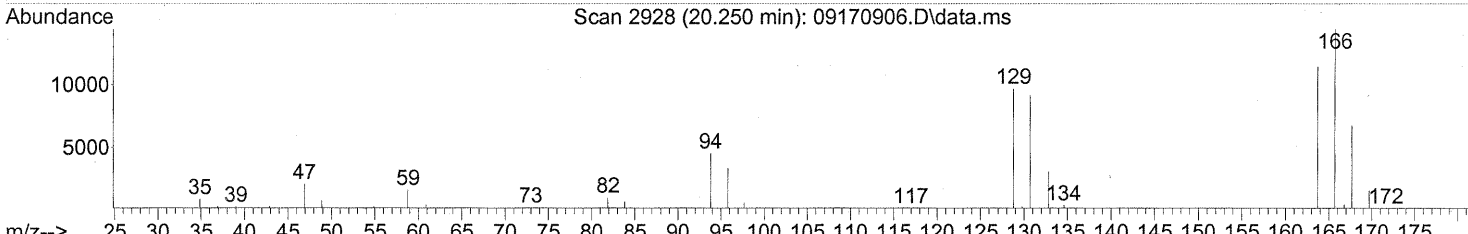
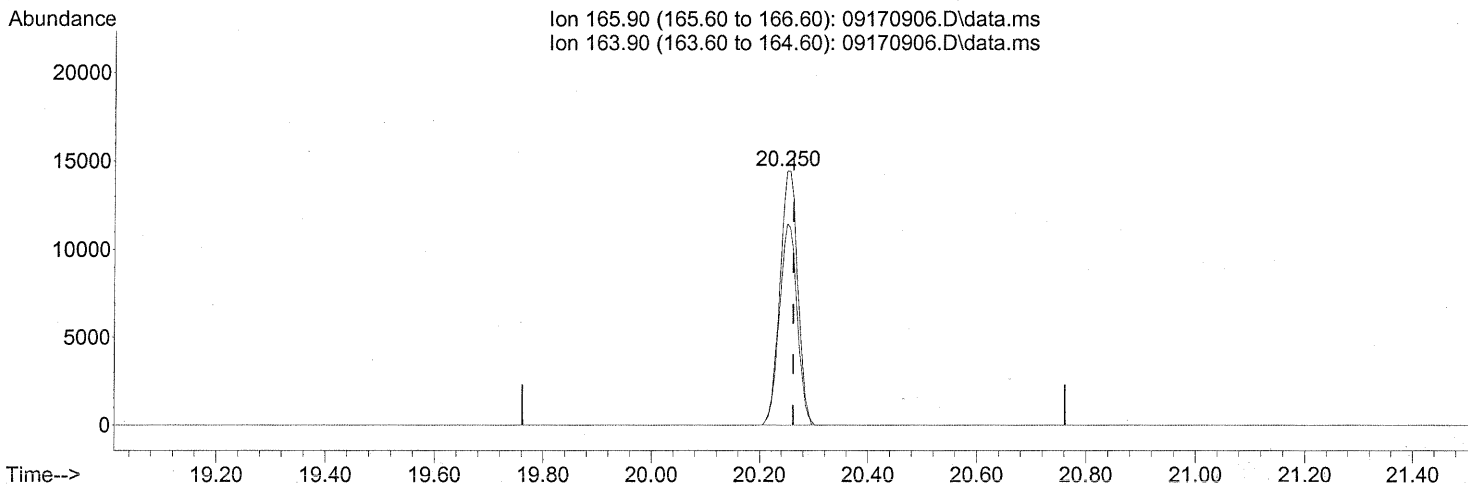
(63) n-Octane (T)
 20.074min (-0.011) 0.62ng
 response 6188

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	115.38
71.00	69.40	68.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(64) Tetrachloroethene (T)

20.250min (-0.011) 2.01ng

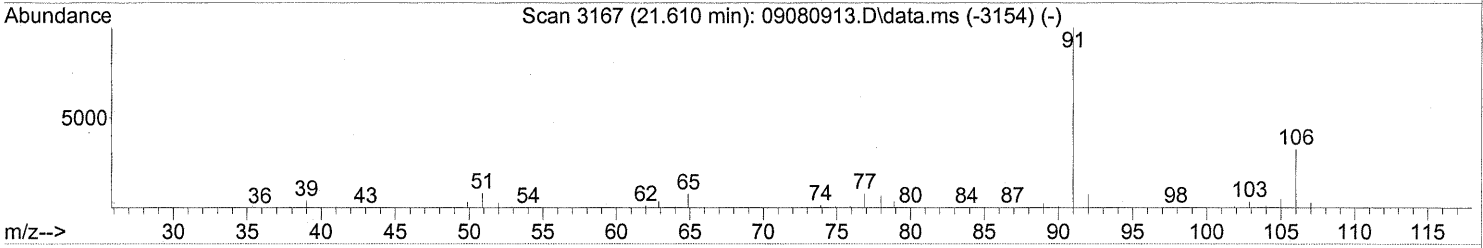
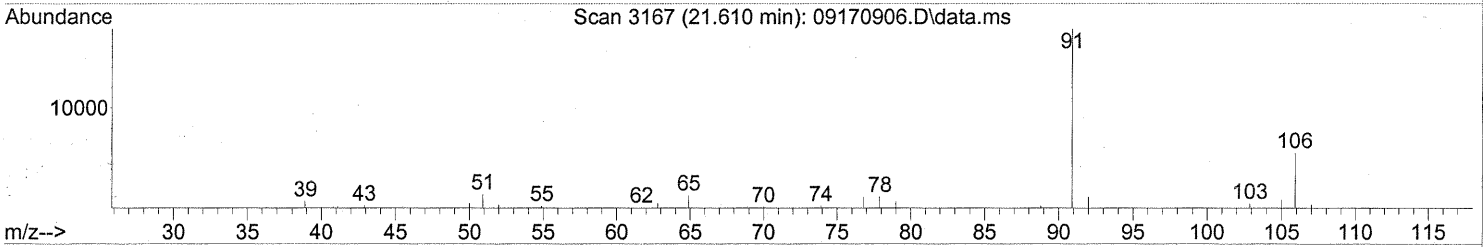
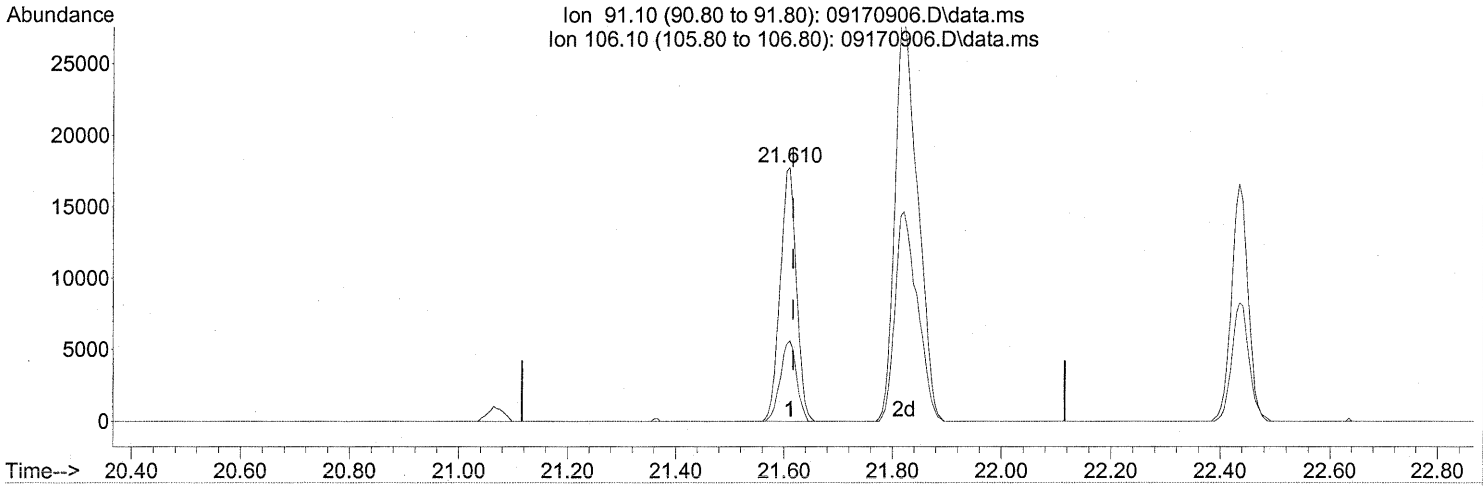
response 32809

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	78.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(66) Ethylbenzene (T)

21.610min (-0.006) 0.64ng

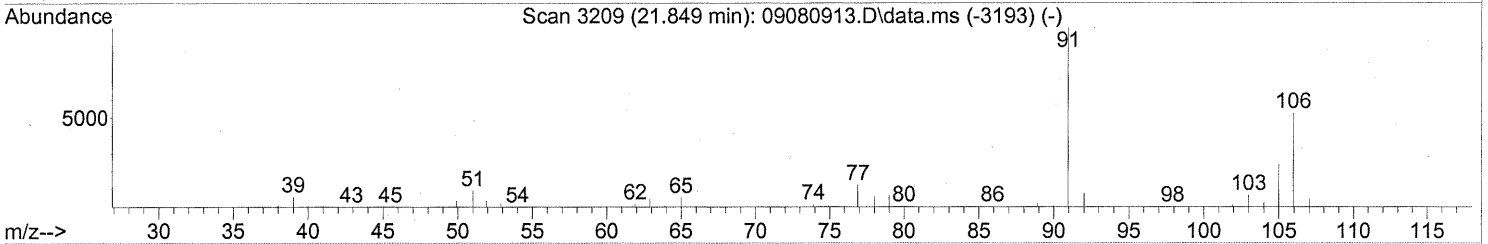
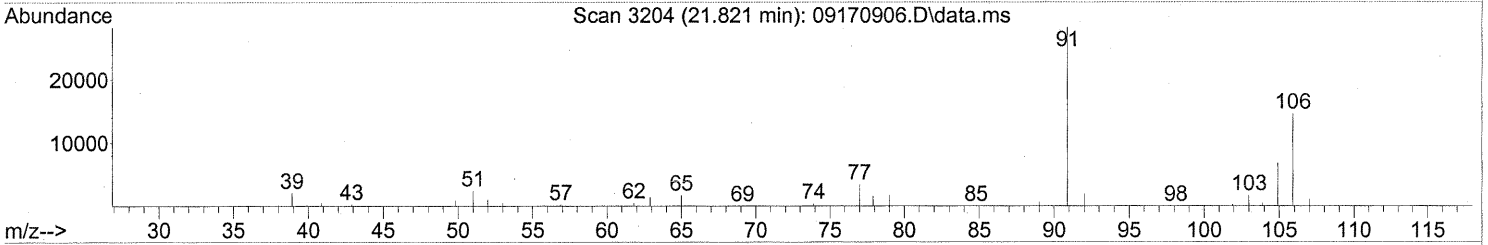
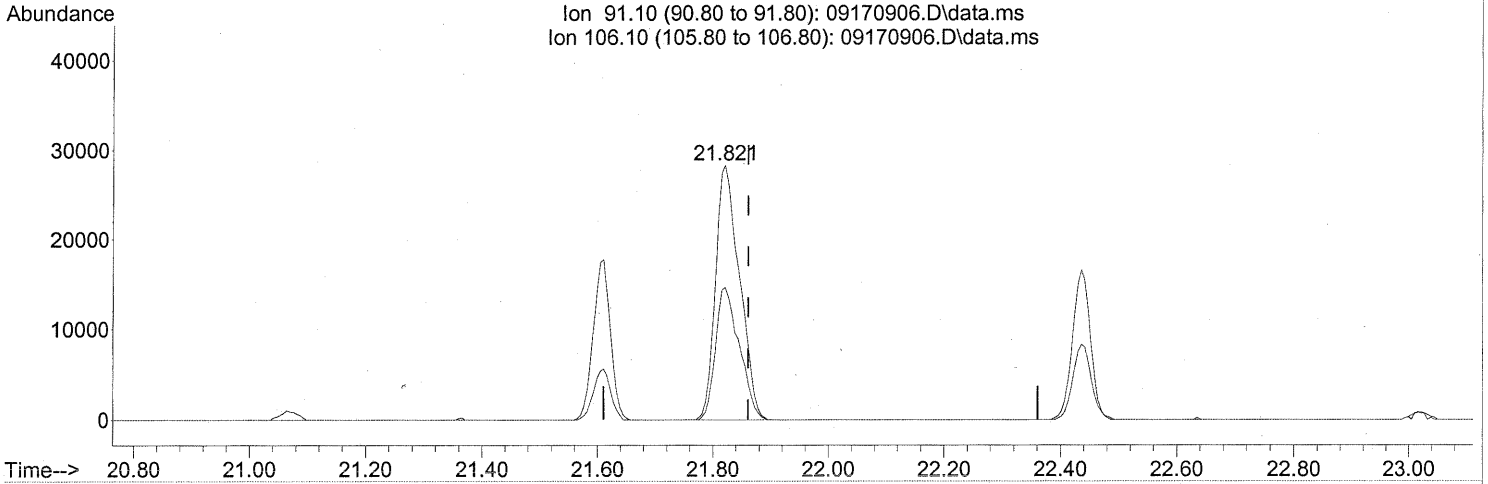
response 36809

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	31.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

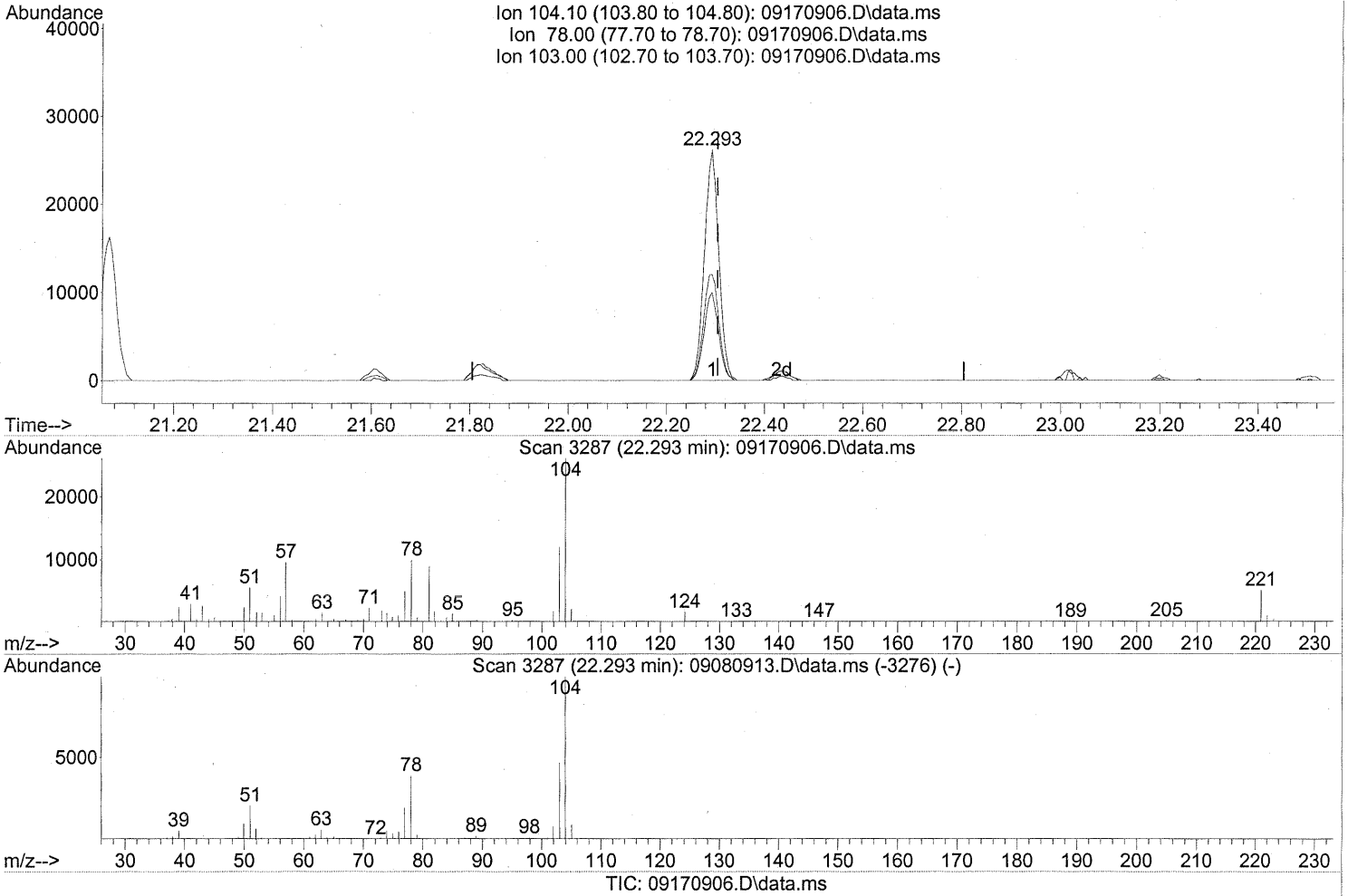
(67) m- & p-Xylenes (T)
 21.821min (-0.040) 1.80ng
 response 81706

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170906.D
Acq On : 17 Sep 2009 10:42
Operator : LH
Sample : P0903145-012 (1000mL)
Misc : Environmental H & E 102826
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 1.43ng

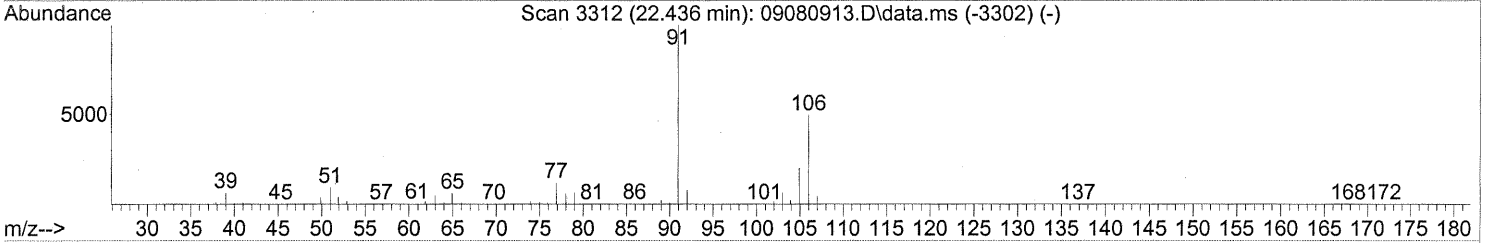
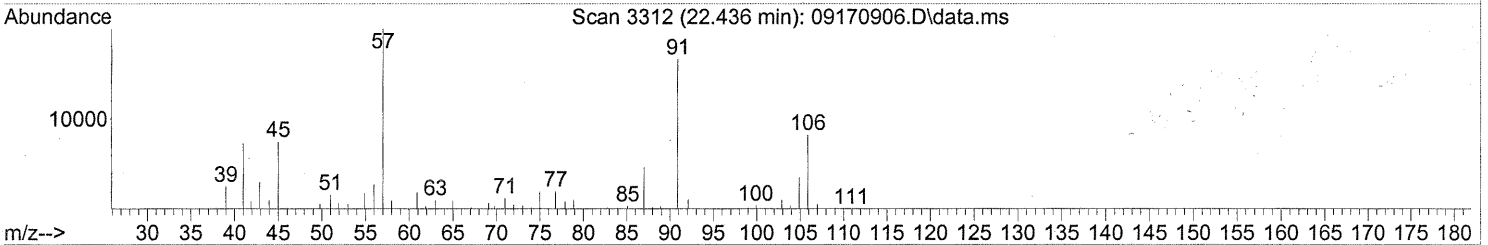
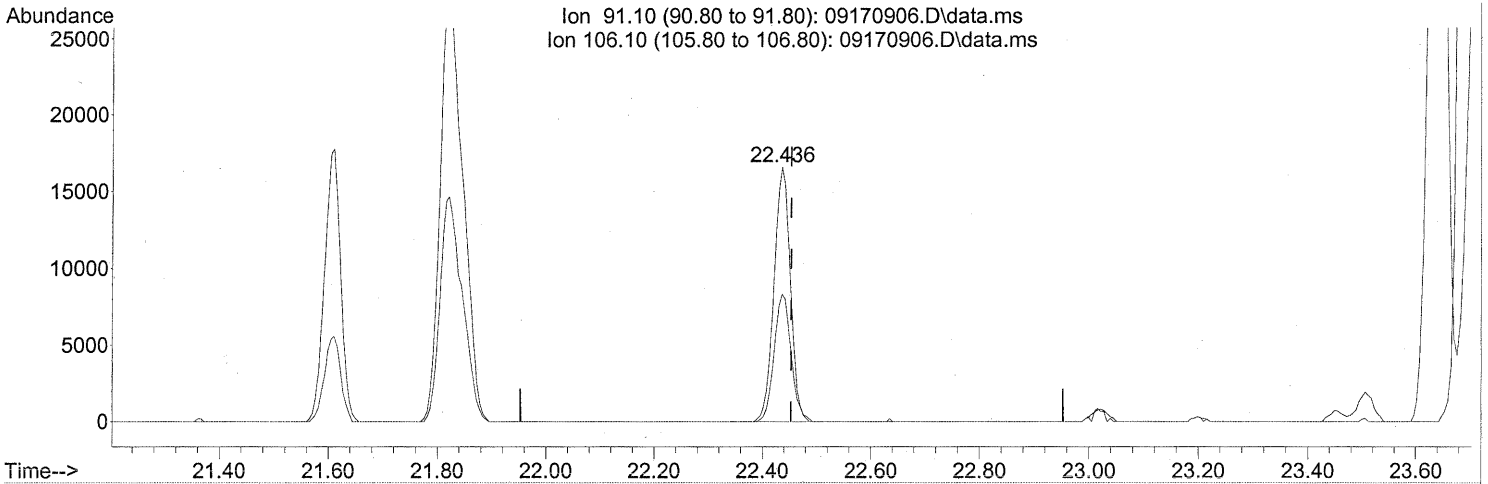
response 53234

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.82
103.00	47.80	49.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(70) o-Xylene (T)
 22.436min (-0.017) 0.76ng

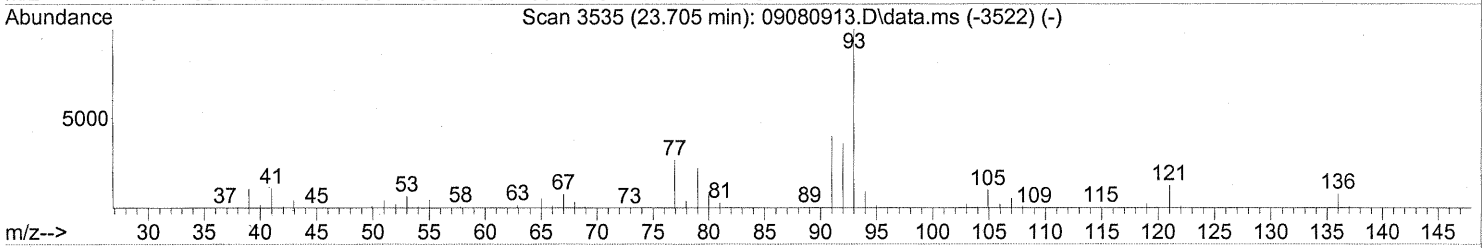
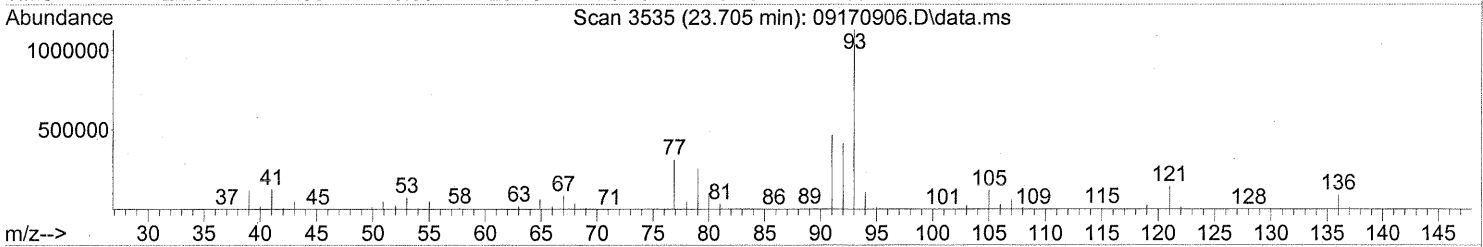
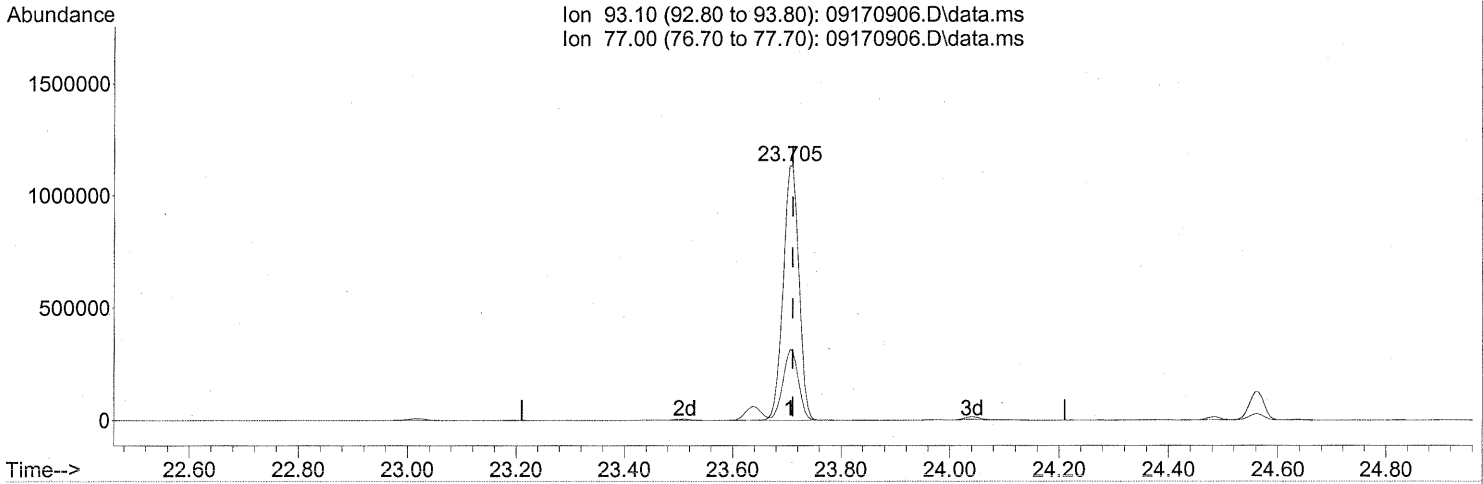
response 35037

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	52.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

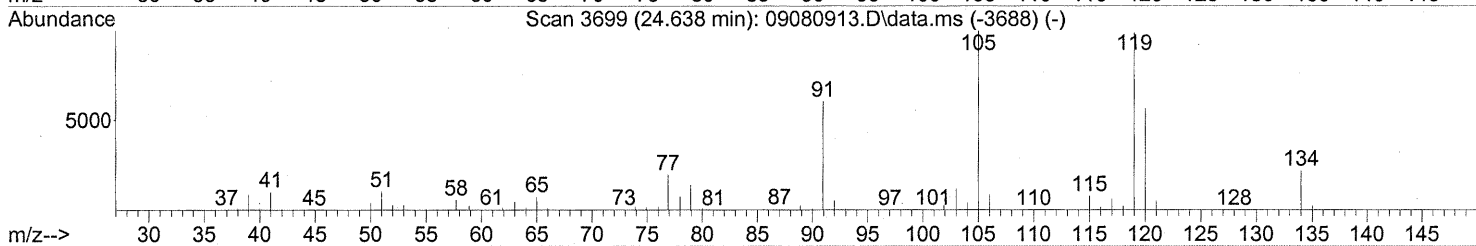
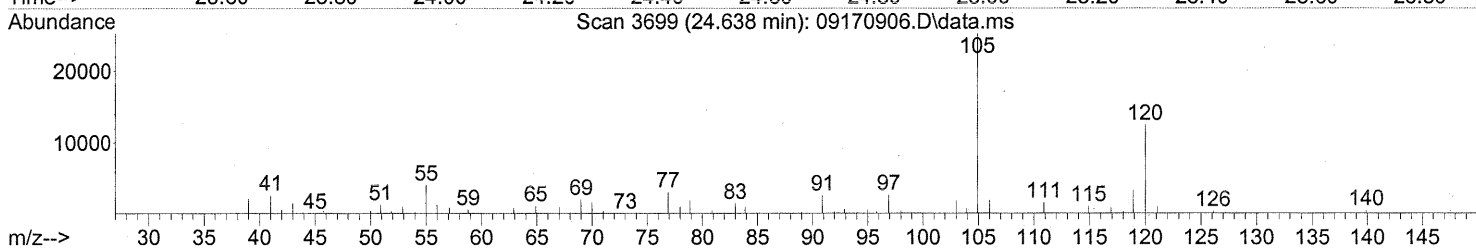
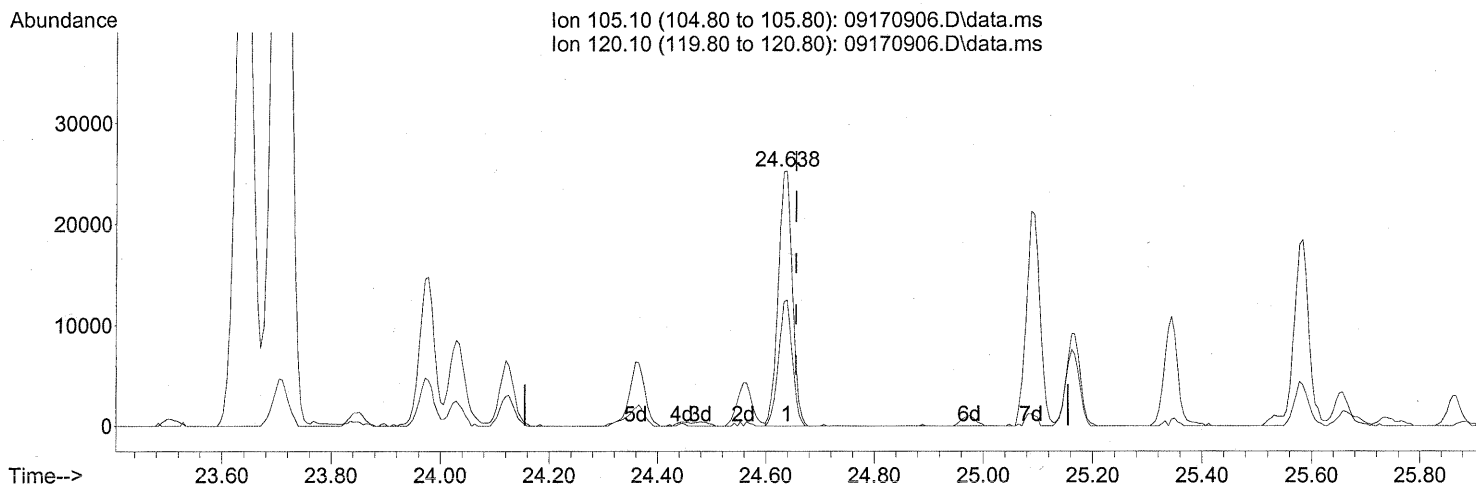
(75) alpha-Pinene (T)
 23.705min (-0.006) 76.87ng
 response 2287301

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 0.87ng

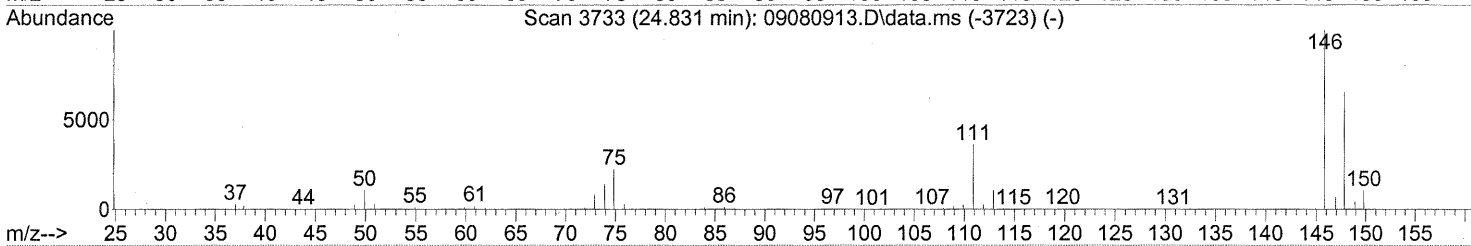
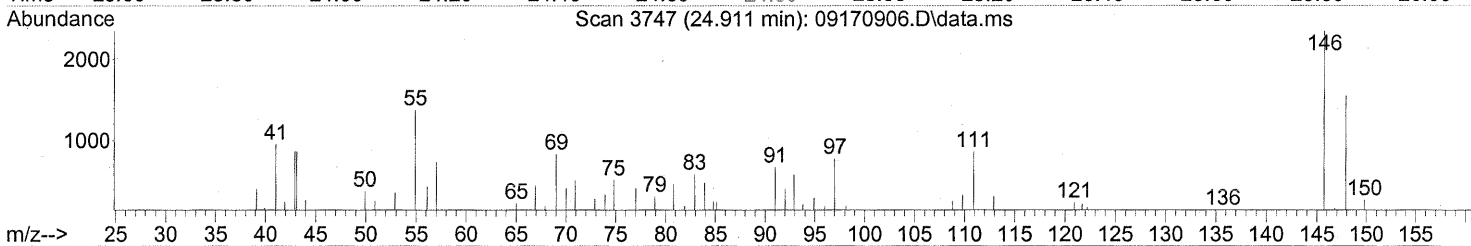
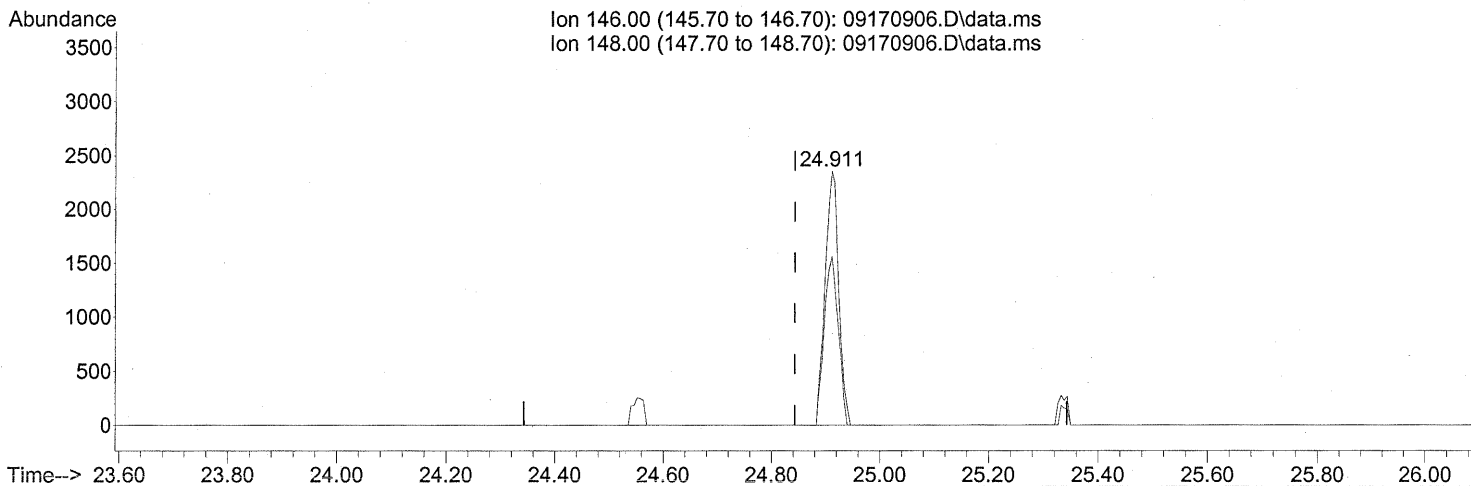
response 45545

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(85) 1,3-Dichlorobenzene (T)

24.911min (+0.068) 0.13ng

response 4115

Ion	Exp%	Act%
146.00	100	100
148.00	64.40	68.21
0.00	0.00	0.00
0.00	0.00	0.00

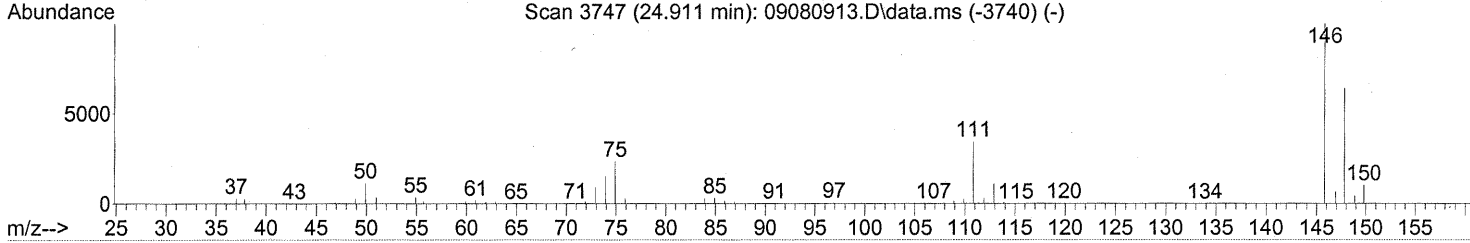
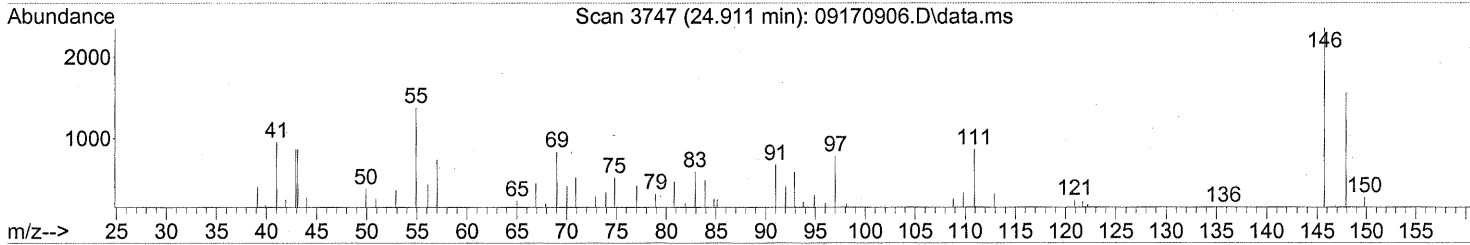
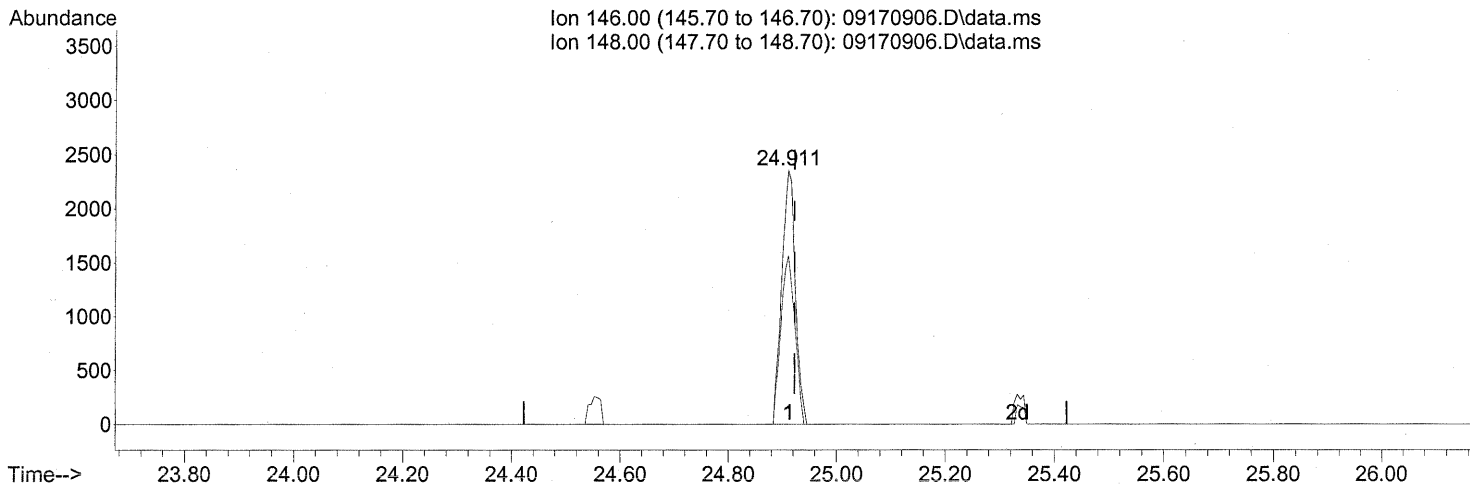
FP in 9/21/09

can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170906.D\data.ms

(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.13ng

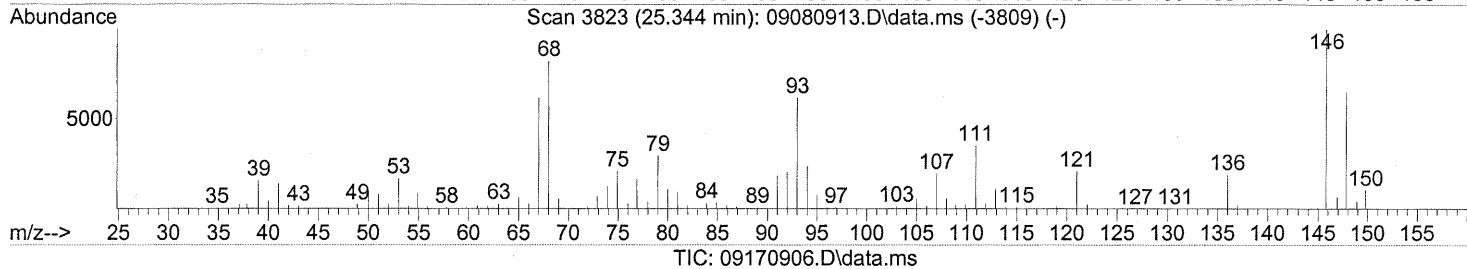
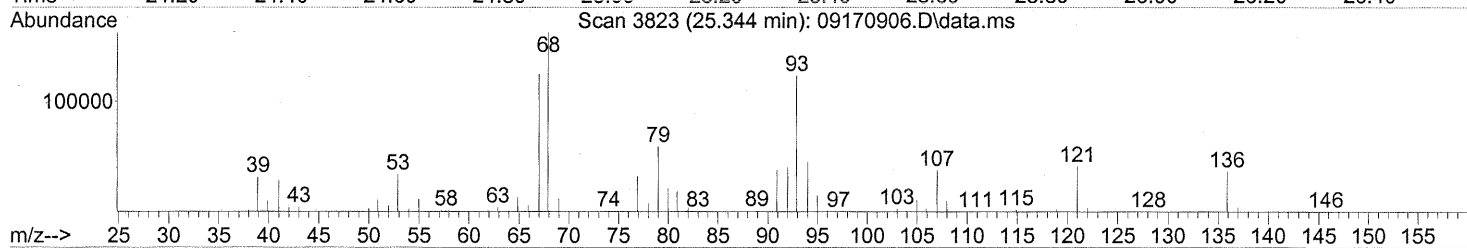
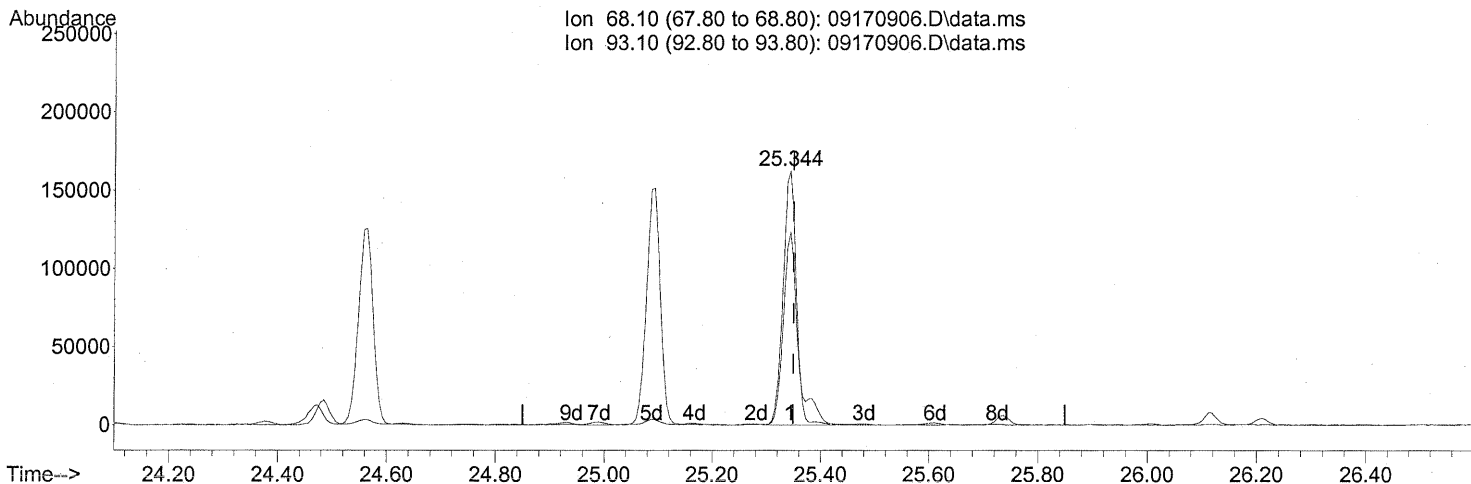
response 4115

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	68.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(91) d-Limonene (T)

25.344min (-0.006) 14.60ng

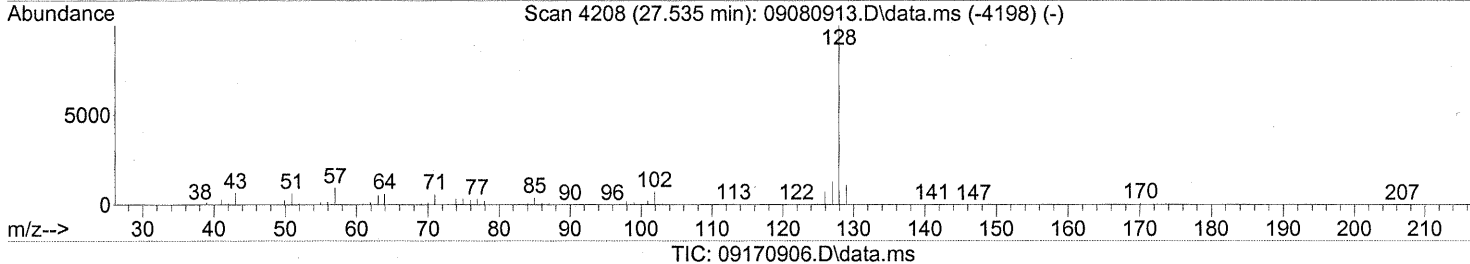
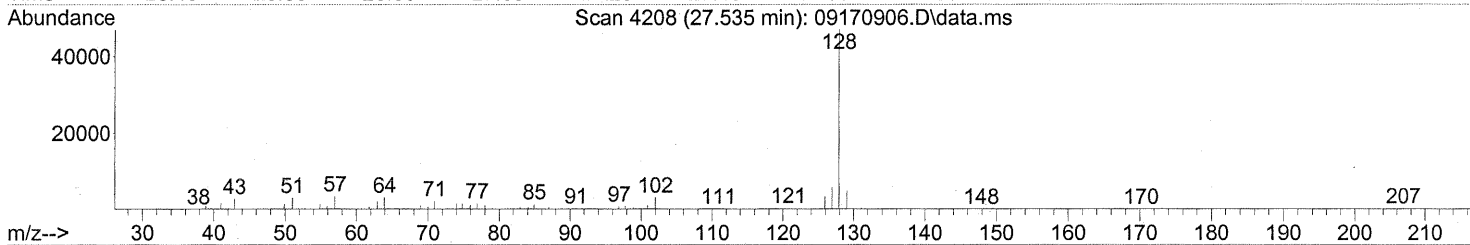
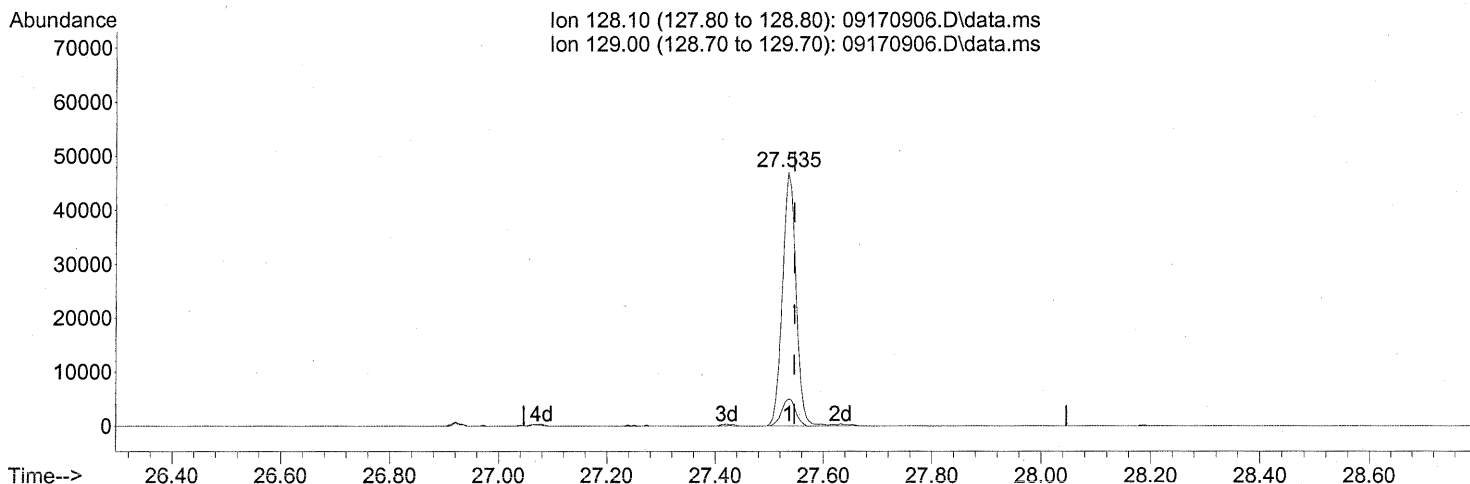
response 275124

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	85.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170906.D
 Acq On : 17 Sep 2009 10:42
 Operator : LH
 Sample : P0903145-012 (1000mL)
 Misc : Environmental H & E 102826
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 17 12:04:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 1.08ng

response 82301

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.86
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102827
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01627

CAS Project ID: P0903145
CAS Sample ID: P0903145-013

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.8	0.62	1.6	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.62	0.58	0.12	
74-87-3	Chloromethane	ND	0.12	ND	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	360	6.2	190	3.3	
75-05-8	Acetonitrile	150	0.62	91	0.37	E
107-02-8	Acrolein	6.9	0.62	3.0	0.27	
67-64-1	Acetone	90	6.2	38	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	11	0.62	4.7	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.75	0.12	0.098	0.016	
75-15-0	Carbon Disulfide	ND	0.62	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	7.6	6.2	2.2	1.7	
78-93-3	2-Butanone (MEK)	5.7	0.62	2.0	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: 9/22/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102827
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01627

CAS Project ID: P0903145
CAS Sample ID: P0903145-013

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	0.13	0.12	0.034	0.031	
141-78-6	Ethyl Acetate	6.6	0.62	1.8	0.17	
110-54-3	n-Hexane	ND	0.62	ND	0.17	
67-66-3	Chloroform	2.2	0.12	0.44	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.62	ND	0.21	
107-06-2	1,2-Dichloroethane	1.2	0.12	0.29	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.45	0.12	0.14	0.039	
56-23-5	Carbon Tetrachloride	0.65	0.12	0.10	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	0.50	0.12	0.074	0.018	
79-01-6	Trichloroethene	0.19	0.12	0.035	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	0.66	0.62	0.16	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	1.4	0.62	0.35	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	6.3	0.62	1.7	0.16	
591-78-6	2-Hexanone	1.8	0.62	0.44	0.15	
124-48-1	Dibromochloromethane	0.12	0.12	0.015	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	5.4	0.62	1.1	0.13	

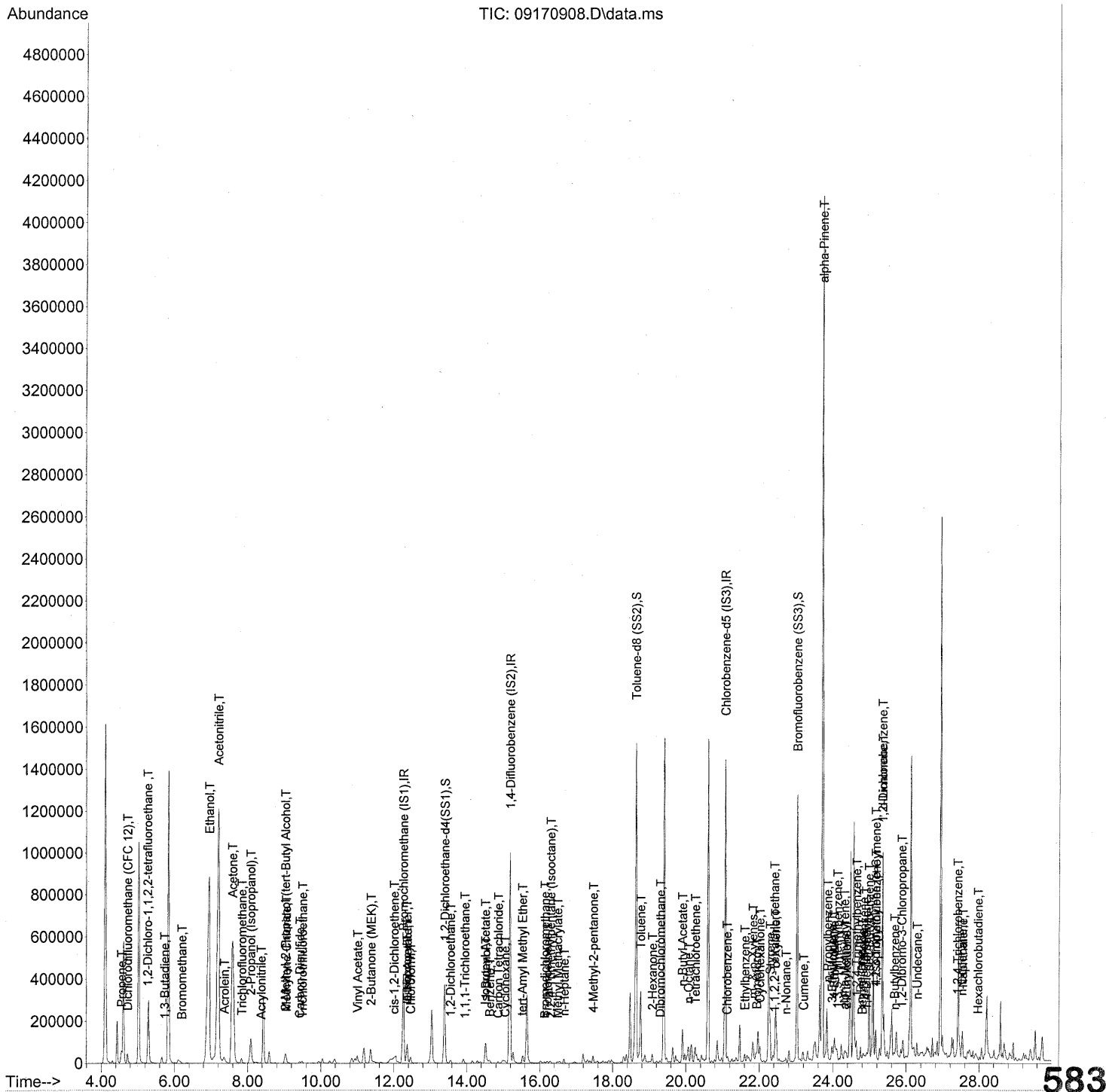
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **581**

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:23:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827 ✓ ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:23:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

in 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	278690	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1345543	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	578985	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	373582	24.324	ng	-0.03
Spiked Amount	25.000			Recovery =	97.28%	✓
57) Toluene-d8 (SS2)	18.63	98	1409405	24.319	ng	-0.01
Spiked Amount	25.000			Recovery =	97.28%	✓
73) Bromofluorobenzene (SS3)	23.02	174	556339	26.788	ng	0.00
Spiked Amount	25.000			Recovery =	107.16%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	25395	<u>2.238 ng</u>		90
3) Dichlorodifluoromethan...	4.72	85	50632	<u>2.334 ng</u>		99
4) Chloromethane	0.00	50	0	N.D. d		
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	1398	<u>0.107 ng</u>		86
6) Vinyl Chloride	5.48	62	563	N.D.		
7) 1,3-Butadiene	5.74	54	947	<u>0.080 ng</u>	#	76
8) Bromomethane	6.20	94	1027	<u>0.091 ng</u>		82
9) Chloroethane	6.55	64	365	N.D.		
10) Ethanol	6.95	45	2382900m	<u>289.639 ng</u>		
11) Acetonitrile	7.20	41	2580252	<u>124.003 ng</u>	E	100
12) Acrolein	7.37	56	34366	<u>5.614 ng</u>		99
13) Acetone	7.59	58	607647	<u>73.314 ng</u>	#	79
14) Trichlorofluoromethane	7.84	101	23529	<u>1.171 ng</u>		98
15) 2-Propanol (Isopropanol)	8.09	45	265766	<u>9.310 ng</u>		96
16) Acrylonitrile	8.37	53	1683	<u>0.105 ng</u>		87
17) 1,1-Dichloroethene	8.83	96	387	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	14988	0.508 ng	#	1
19) Methylene Chloride	9.05	84	3608	<u>0.285 ng</u>		80
20) 3-Chloro-1-propene (Al...	9.24	41	630	N.D.		
21) Trichlorotrifluoroethane	9.49	151	6030	<u>0.609 ng</u>		84
22) Carbon Disulfide	9.42	76	17738	<u>0.405 ng</u>		100
23) trans-1,2-Dichloroethene	10.47	61	398	N.D.		
24) 1,1-Dichloroethane	10.75	63	622	N.D.		
25) Methyl tert-Butyl Ether	10.86	73	1389	N.D.		
26) Vinyl Acetate	11.00	86	15428	<u>6.181 ng</u>	#	1
27) 2-Butanone (MEK)	11.37	72	37213	<u>4.674 ng</u>	#	88
28) cis-1,2-Dichloroethene	12.00	61	1648	<u>0.108 ng</u>	# VES	32
29) Diisopropyl Ether	12.35	87	530	0.057 ng	#	1
30) Ethyl Acetate	12.36	61	21570	<u>5.337 ng</u>		97
31) n-Hexane	12.36	57	5979	<u>0.373 ng</u>		8

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:23:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	34367	1.750	ng	99
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	13.15	87	134	N.D.		
36) 1,2-Dichloroethane	13.55	62	13111	0.968	ng	99
38) 1,1,1-Trichloroethane	13.94	97	1326	0.078	ng	# 32
39) Isopropyl Acetate	14.50	61	763	0.102	ng	# 1
40) 1-Butanol	14.52	56	97288	8.014	ng	82
41) Benzene	14.63	78	17672	0.368	ng	97
42) Carbon Tetrachloride	14.86	117	7610	0.527	ng	96
43) Cyclohexane	15.05	84	6196	0.354	ng	94
44) tert-Amyl Methyl Ether	15.52	73	1876	0.056	ng	# 1
45) 1,2-Dichloropropane	15.87	63	281	N.D.		
46) Bromodichloromethane	16.14	83	5989	0.403	ng	99
47) Trichloroethene	16.21	130	2215	0.153	ng	97
48) 1,4-Dioxane	16.19	88	441	N.D.		
49) 2,2,4-Trimethylpentane...	16.30	57	8482	0.175	ng	73
50) Methyl Methacrylate	16.49	100	1940	0.352	ng	# 60
51) n-Heptane	16.66	71	6596	0.539	ng	93
52) cis-1,3-Dichloropropene	17.42	75	604	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	12321	1.151	ng	91
54) trans-1,3-Dichloropropene	18.13	75	723	N.D.		
55) 1,1,2-Trichloroethane	18.36	97	452	N.D.		
58) Toluene	18.76	91	277498	5.129	ng	99
59) 2-Hexanone	19.08	43	37836m	1.450	ng	
60) Dibromochloromethane	19.30	129	1363	0.101	ng	90
61) 1,2-Dibromoethane	19.64	107	454	N.D.		
62) n-Butyl Acetate	19.91	43	130486	4.370	ng	93
63) n-Octane	20.07	57	11784	1.160	ng	98
64) Tetrachloroethene	20.26	166	32847	1.967	ng	99
65) Chlorobenzene	21.12	112	2010	0.056	ng	93
66) Ethylbenzene	21.60	91	39401	0.663	ng	95
67) m- & p-Xylenes	21.82	91	87536	1.885	ng	95
68) Bromoform	21.92	173	806	0.059	ng	75
69) Styrene	22.29	104	58122	1.524	ng	94
70) o-Xylene	22.44	91	41559	0.876	ng	97
71) n-Nonane	22.71	43	8526	0.370	ng	93
72) 1,1,2,2-Tetrachloroethane	22.41	83	1547	0.075	ng	# 19
74) Cumene	23.20	105	8368	0.129	ng	74
75) alpha-Pinene	23.70	93	2222292	72.821	ng	95
76) n-Propylbenzene	23.85	91	16300	0.215	ng	# 23
77) 3-Ethyltoluene	23.97	105	30781	0.502	ng	94
78) 4-Ethyltoluene	24.03	105	20199	0.333	ng	96
79) 1,3,5-Trimethylbenzene	24.12	105	14084	0.279	ng	85

585

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:23:47 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

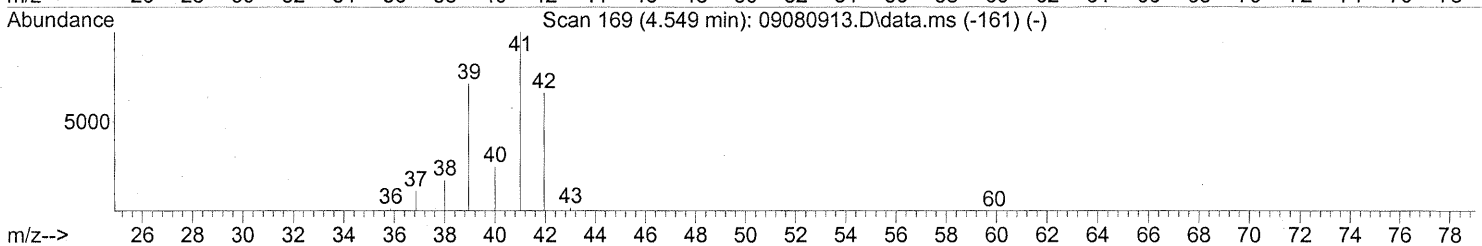
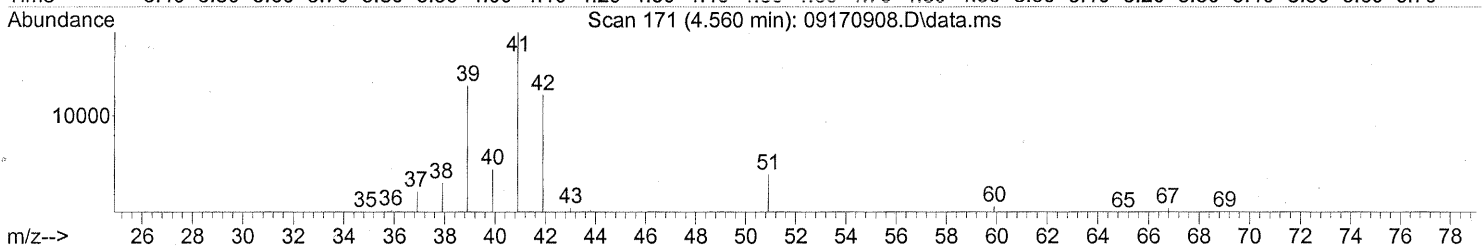
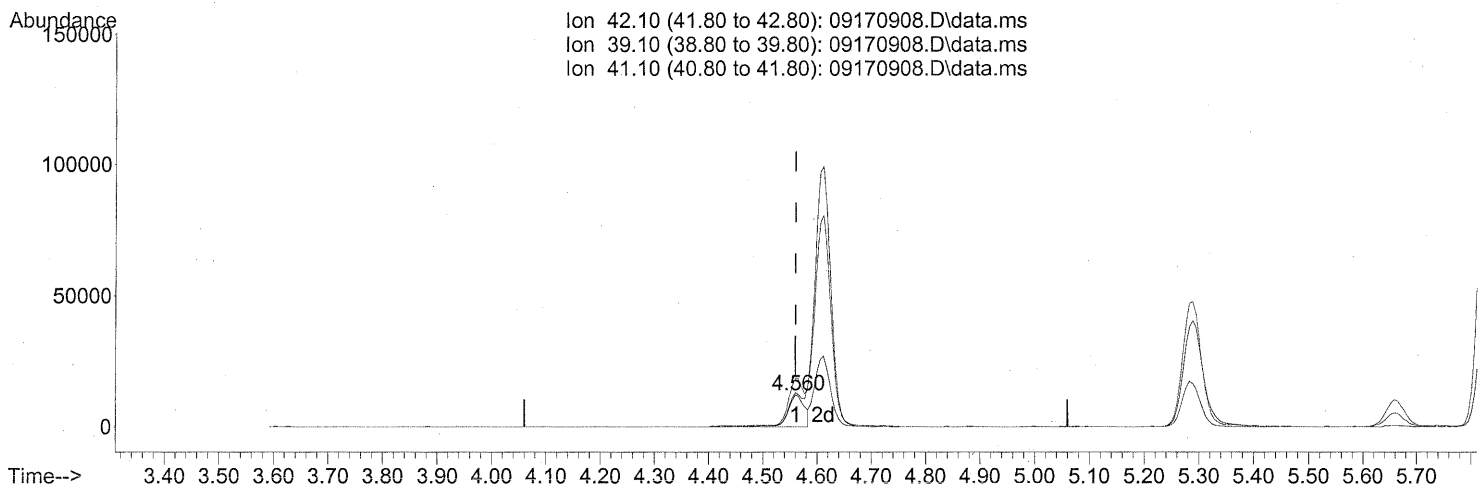
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	2670	0.092	ng	# 42
81) 2-Ethyltoluene	24.36	105	14203	0.221	ng	76
82) 1,2,4-Trimethylbenzene	24.64	105	47402	0.881	ng	93
83) n-Decane	24.75	57	24407	0.867	ng	85
84) Benzyl Chloride	24.80	91	3868	0.092	ng	96
85) 1,3-Dichlorobenzene	24.83	146	2141	0.068	ng	98
86) 1,4-Dichlorobenzene	24.91	146	6163	0.189	ng	97
87) sec-Butylbenzene	24.97	105	5609	0.080	ng	# 66
88) 4-Isopropyltoluene (p-...	25.16	119	73096	1.071	ng	91
89) 1,2,3-Trimethylbenzene	25.17	105	17566	0.333	ng	# 60
90) 1,2-Dichlorobenzene	25.34	146	2001	0.066	ng	89
91) d-Limonene	25.34	68	267123	13.823	ng	76
92) 1,2-Dibromo-3-Chloropr...	25.87	157	678	0.062	ng	# 17
93) n-Undecane	26.29	57	20741	0.639	ng	71
94) 1,2,4-Trichlorobenzene	27.39	180	2259	0.095	ng	87
95) Naphthalene	27.53	128	88464	1.132	ng	100
96) n-Dodecane	27.52	57	19739	0.617	ng	77
97) Hexachlorobutadiene	27.96	225	2920	0.196	ng	95
98) Cyclohexanone	22.01	55	41238	2.060	ng	# 91
99) tert-Butylbenzene	24.23	119	286	N.D.		
100) n-Butylbenzene	25.68	91	16389	0.303	ng	# 69

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(2) Propene (T)

4.560min (+0.000) 2.24ng

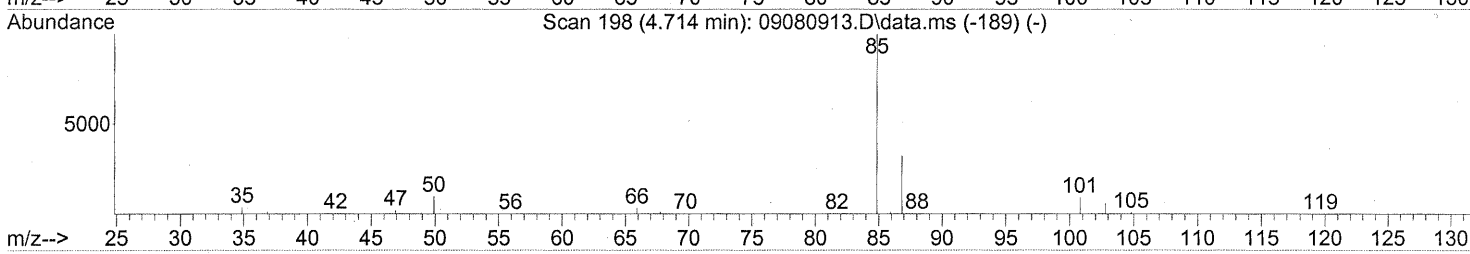
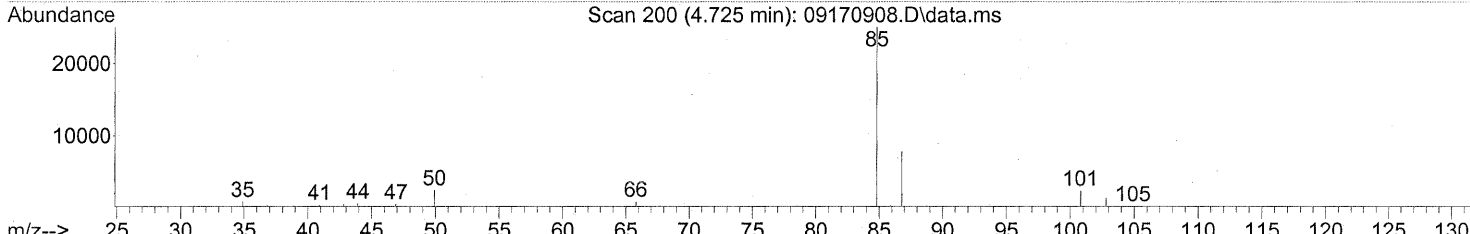
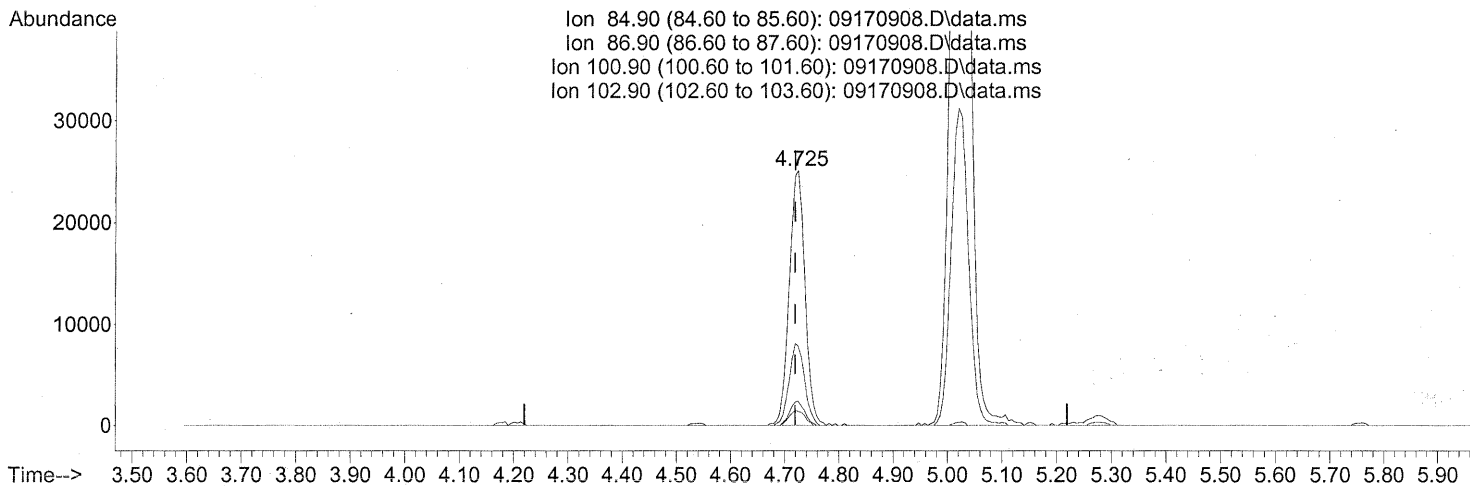
response 25395

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	100.06
41.10	152.10	138.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
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Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.725min (+0.006) 2.33ng

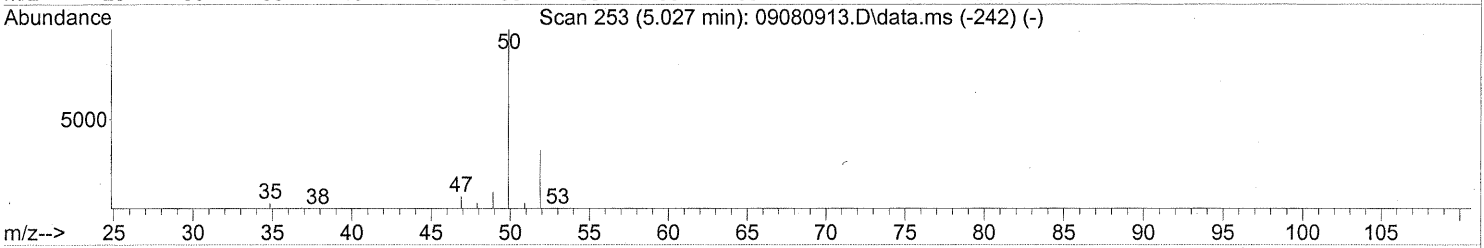
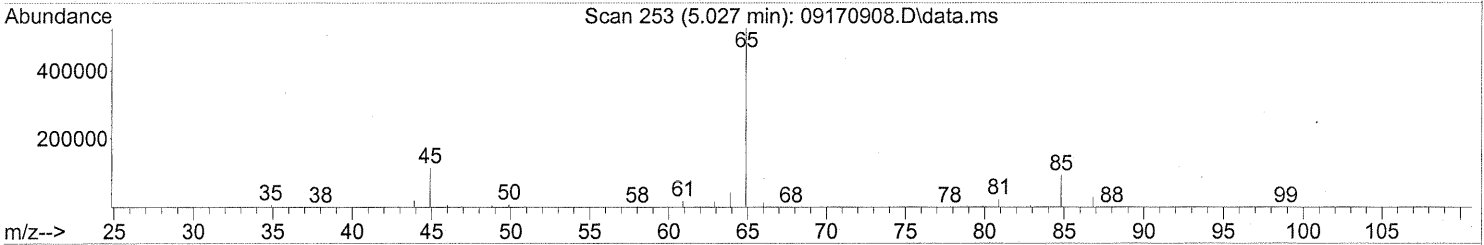
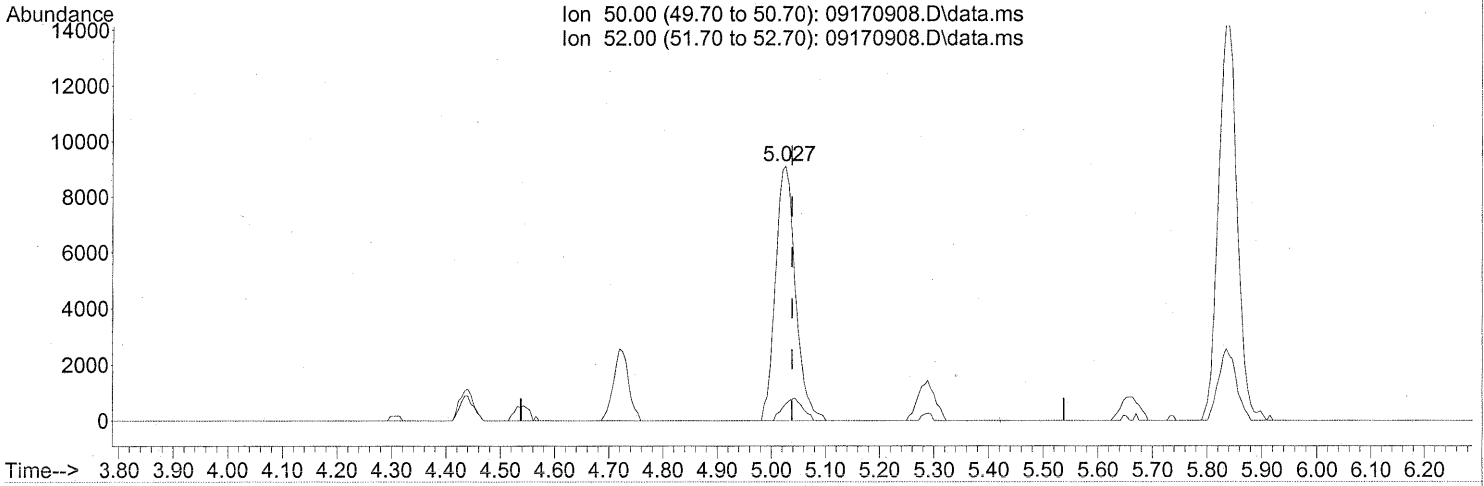
response 50632

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	31.79
100.90	8.60	8.98
102.90	5.90	5.78

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(4) Chloromethane (T)

5.027min (-0.011) 1.31ng

response 23361

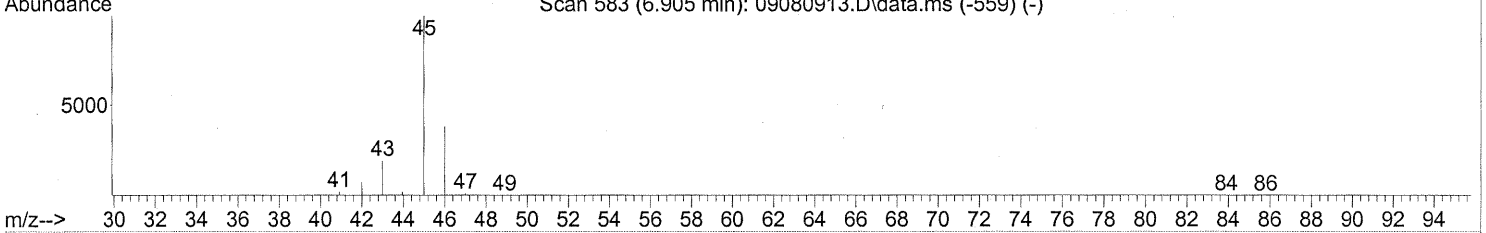
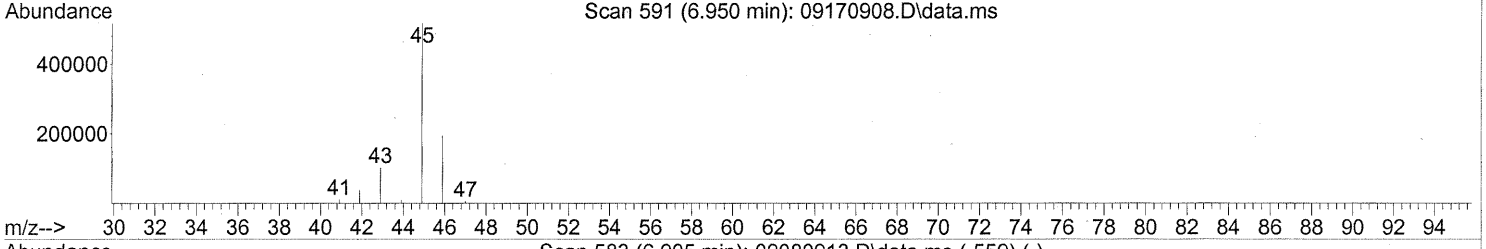
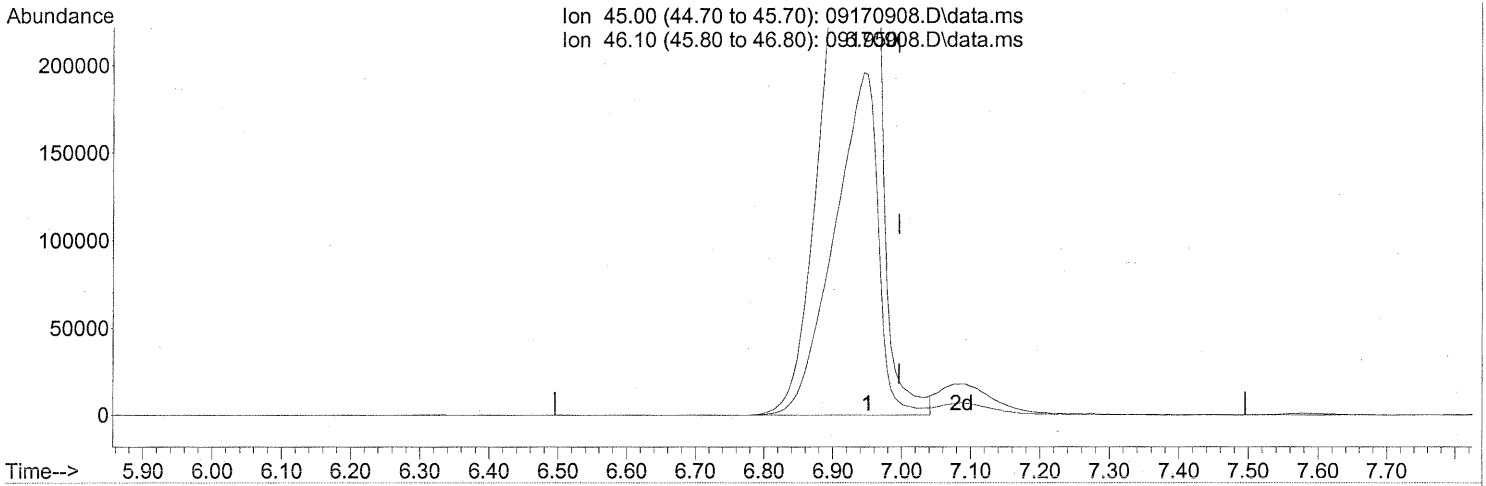
Ion	Exp%	Act%
50.00	100	100
52.00	32.20	8.67#
0.00	0.00	0.00
0.00	0.00	0.00

FP W 9/21/09
can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170908.D\data.ms

(10) Ethanol (T)
6.950min (-0.046) 277.54ng
response 2283383

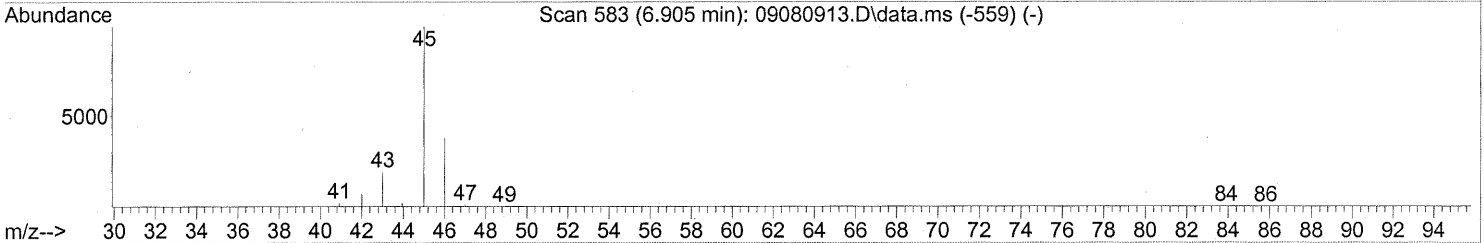
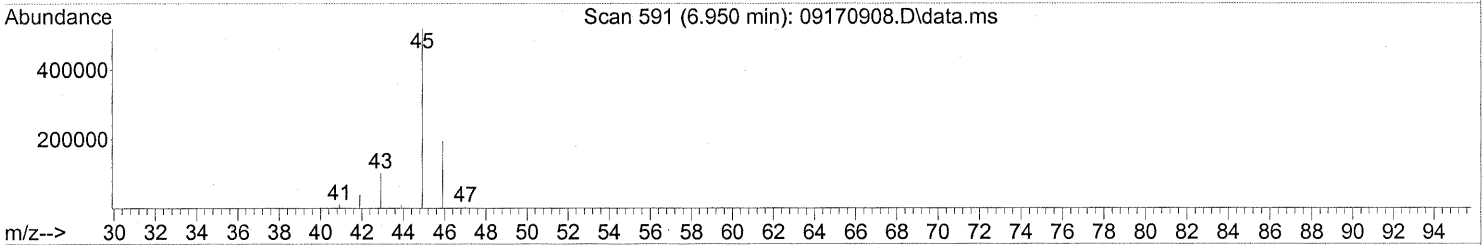
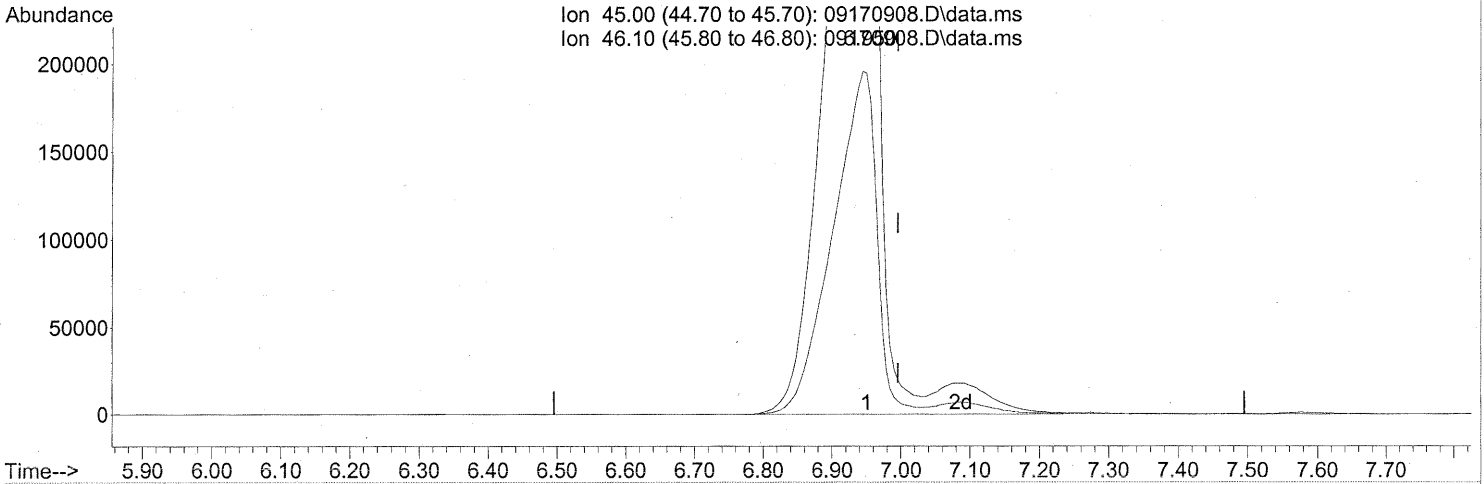
PT

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.950min (-0.046) 289.64ng m
 response 2382900

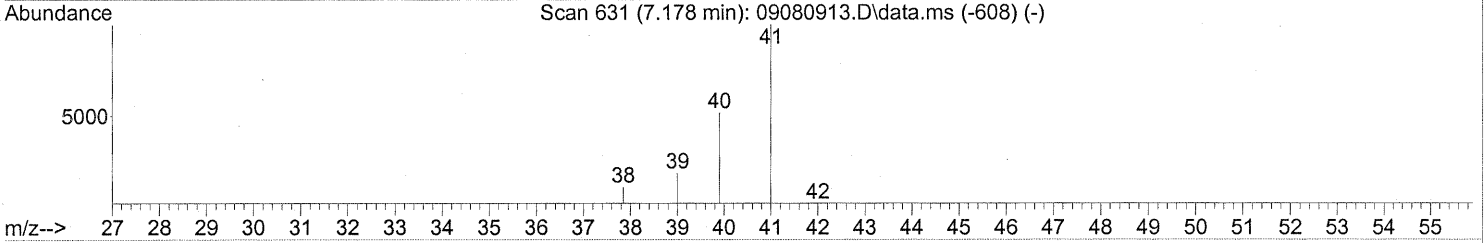
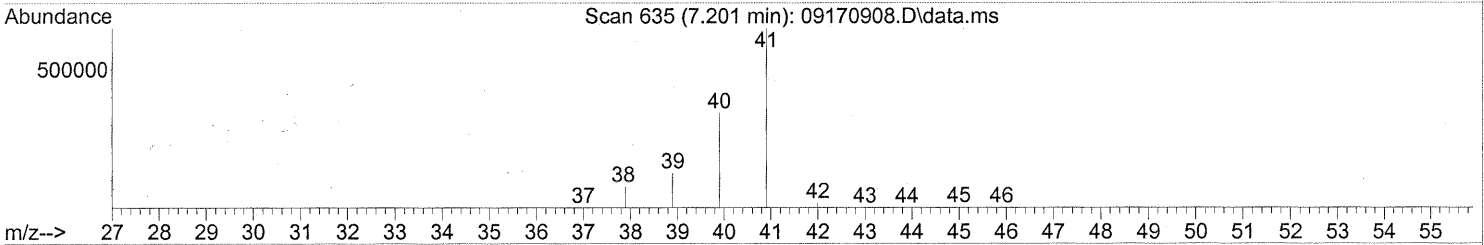
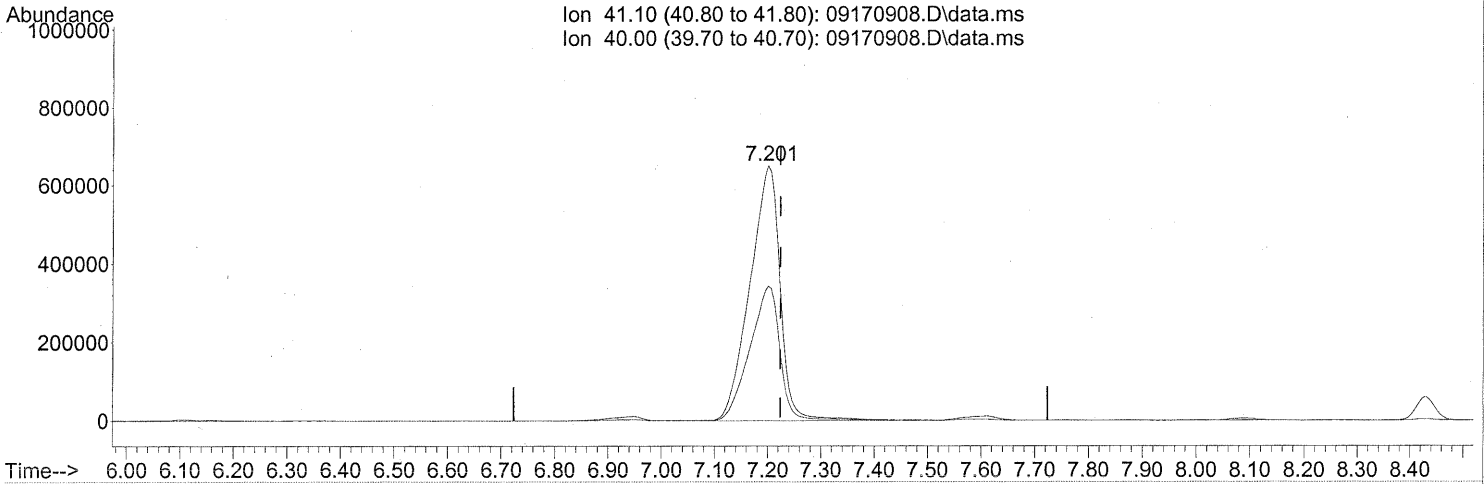
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.46
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
LH 9/21/09
em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170908.D\data.ms

(11) Acetonitrile (T)

7.201min (-0.023) 124.00ng **E**

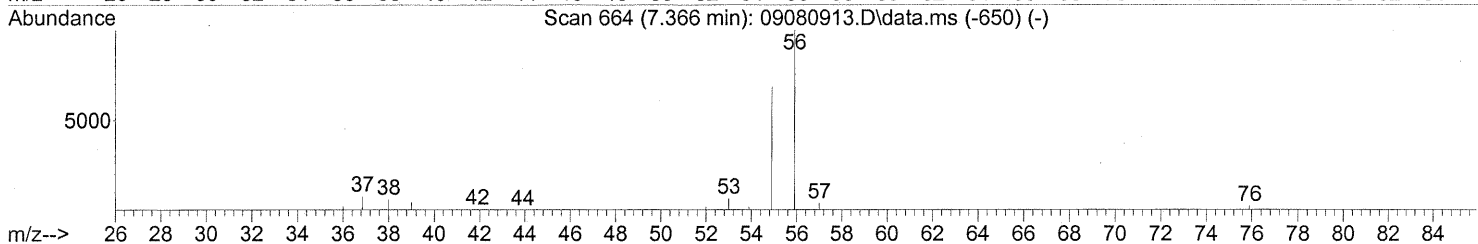
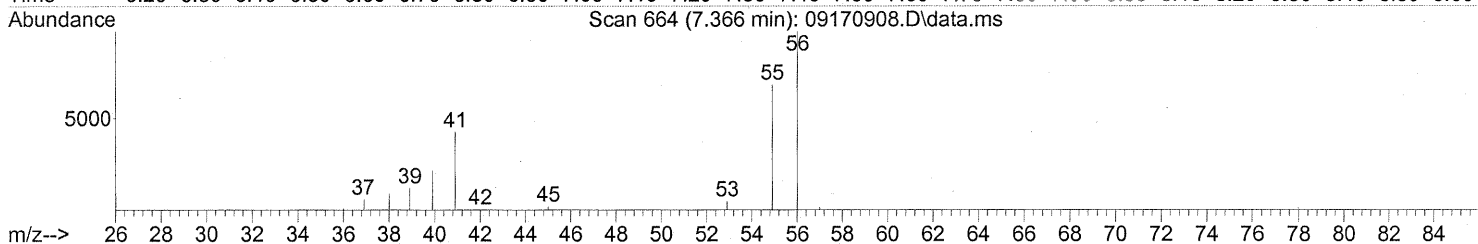
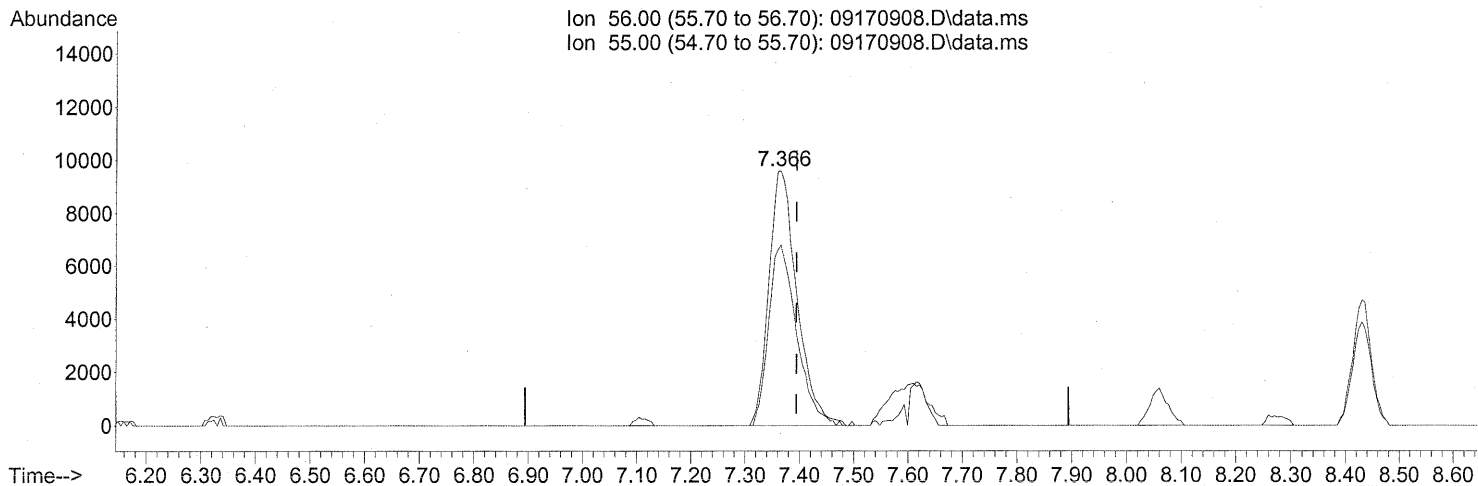
response 2580252

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(12) Acrolein (T)

7.366min (-0.028) 5.61ng

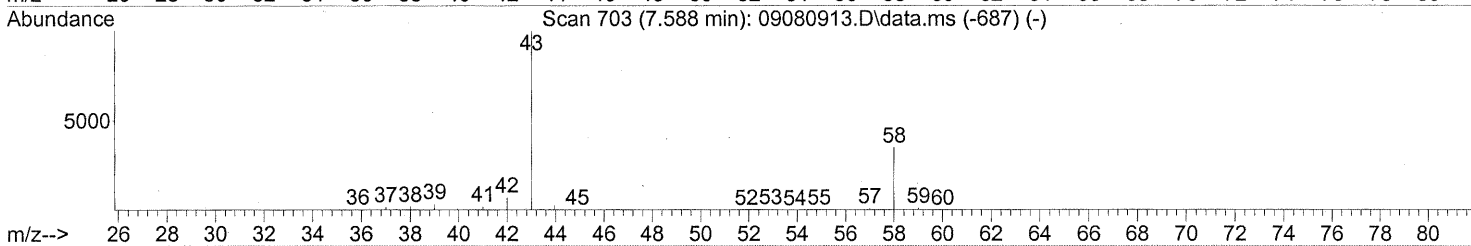
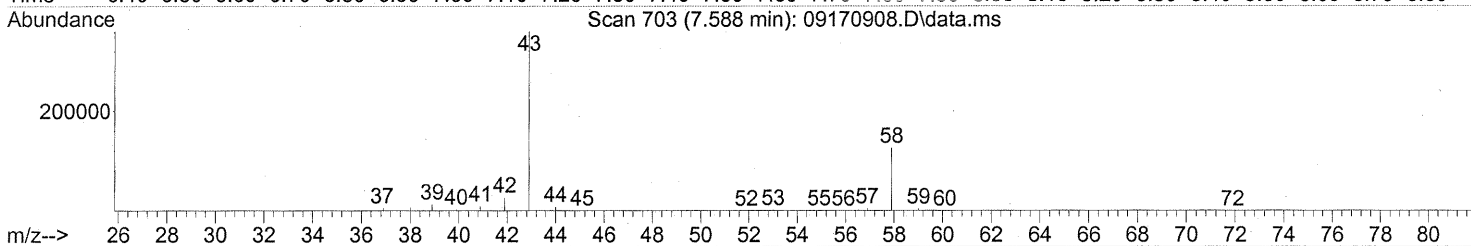
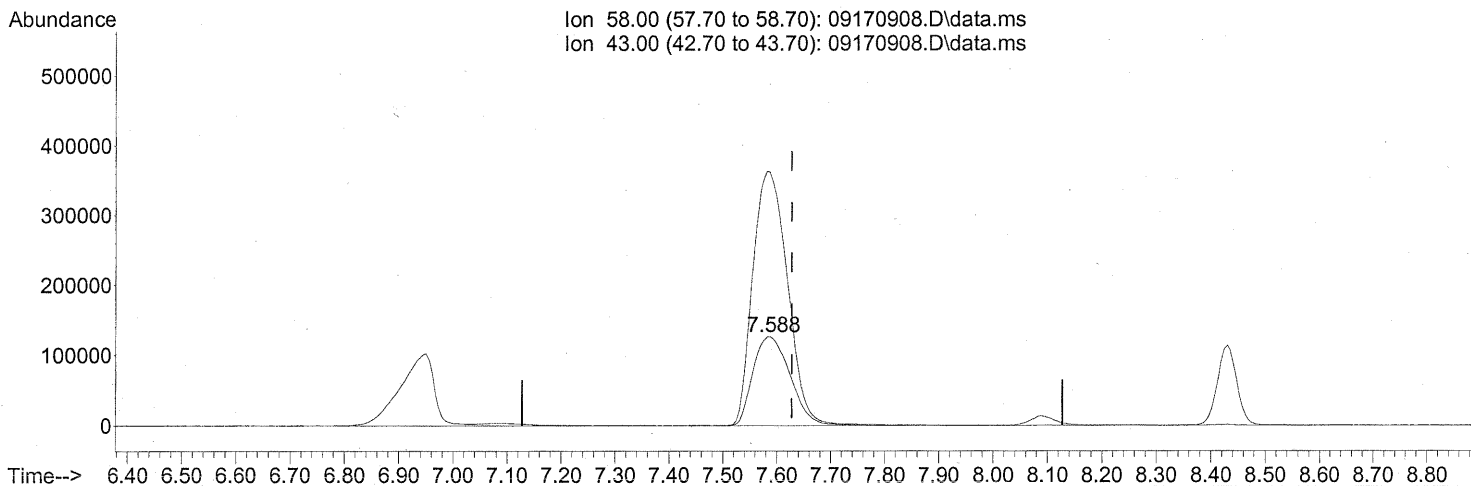
response 34366

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	70.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(13) Acetone (T)

7.588min (-0.040) 73.31ng

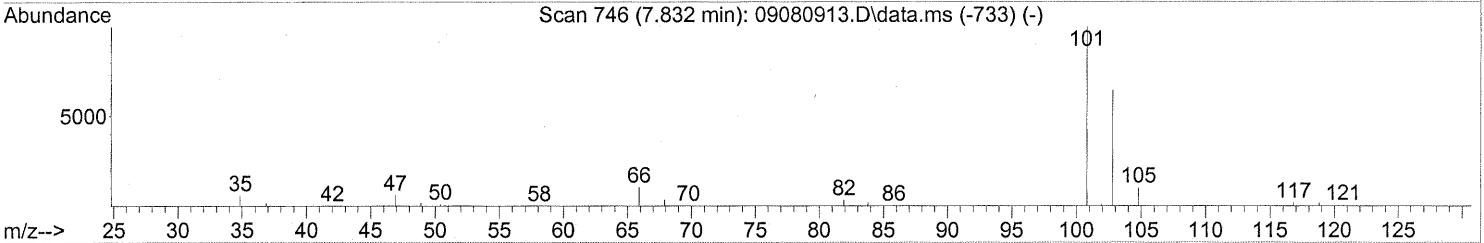
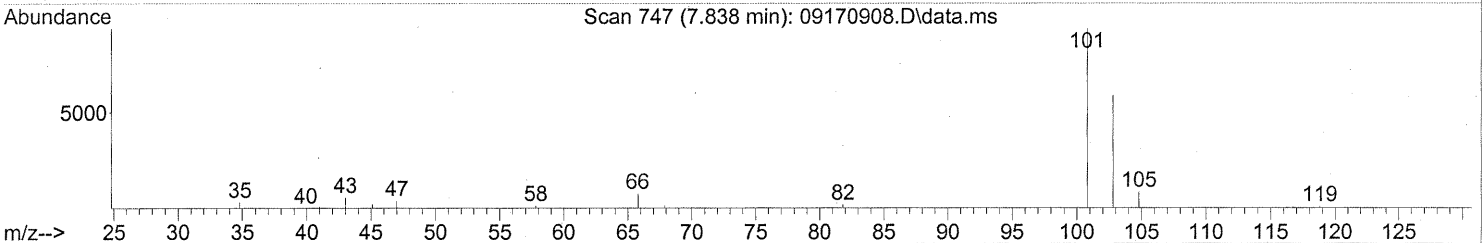
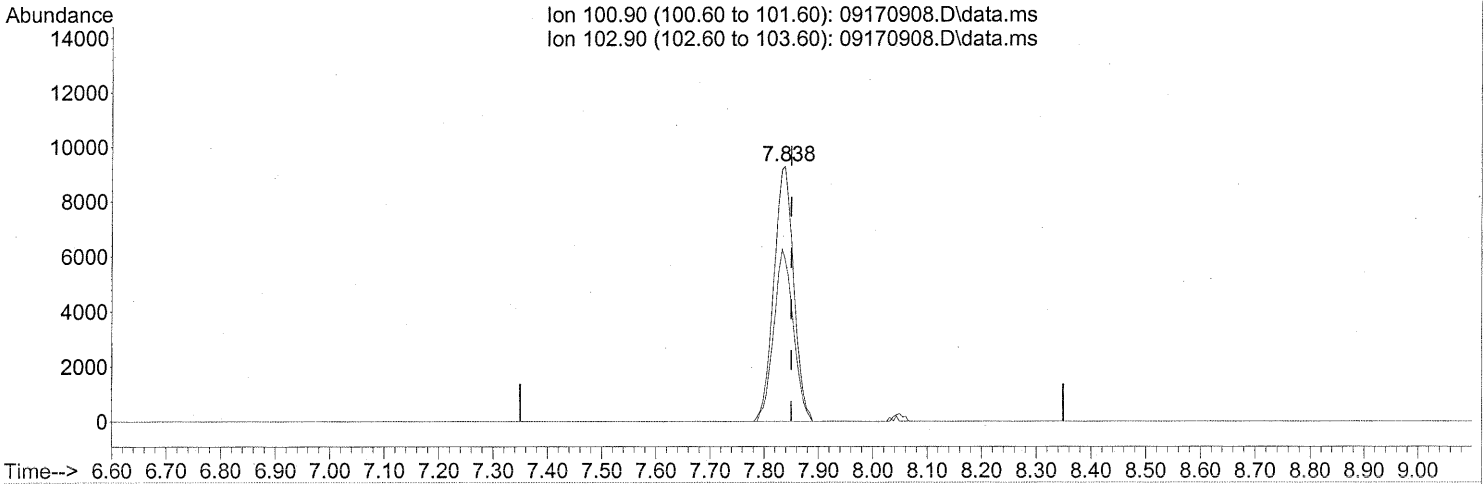
response 607647

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	268.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170908.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.17ng

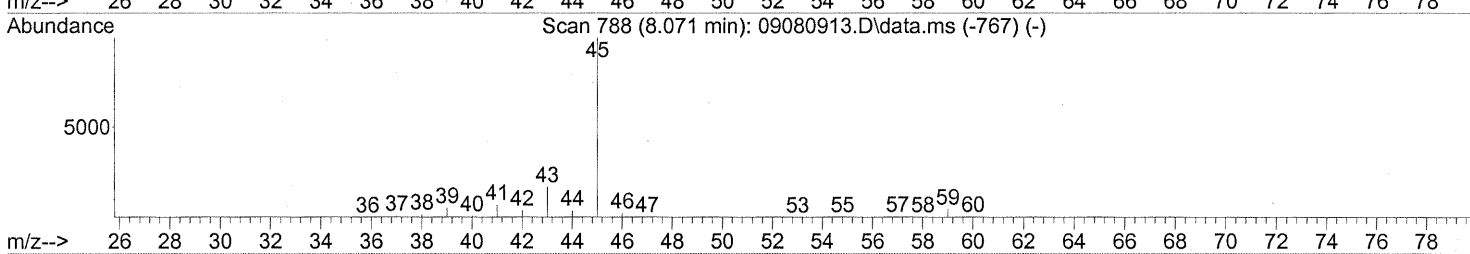
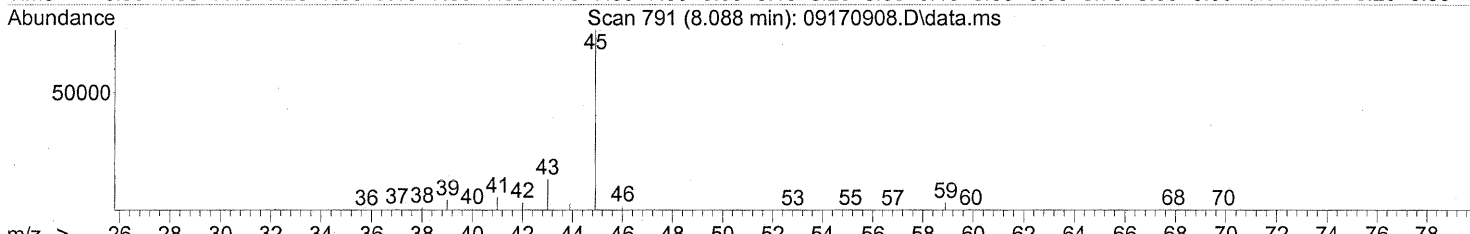
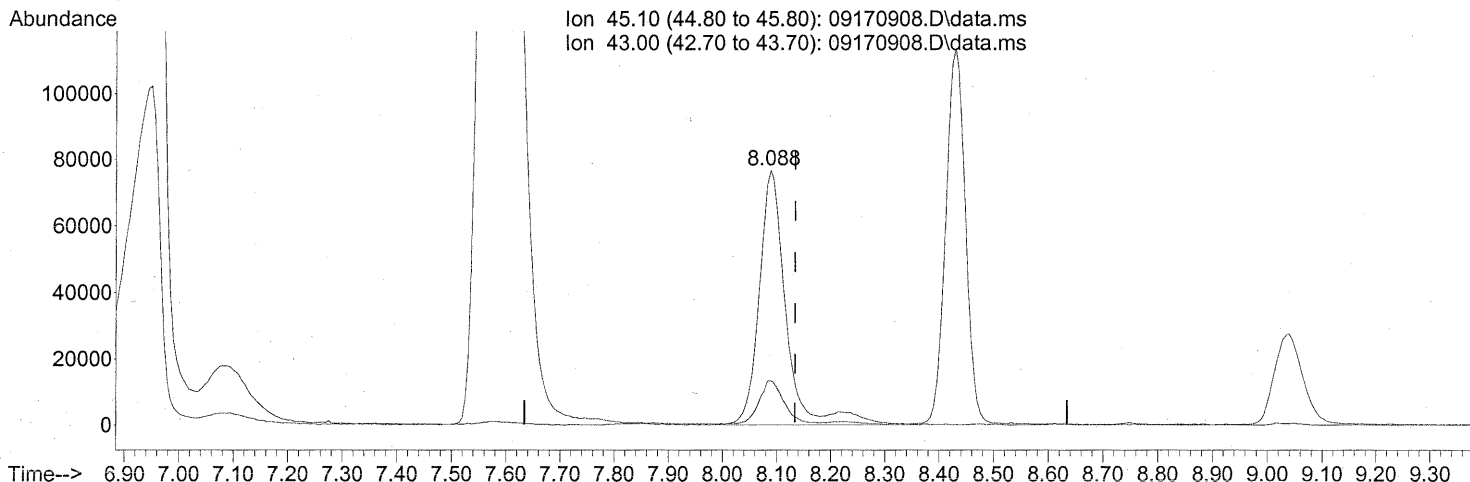
response 23529

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	66.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.088min (-0.046) 9.31ng

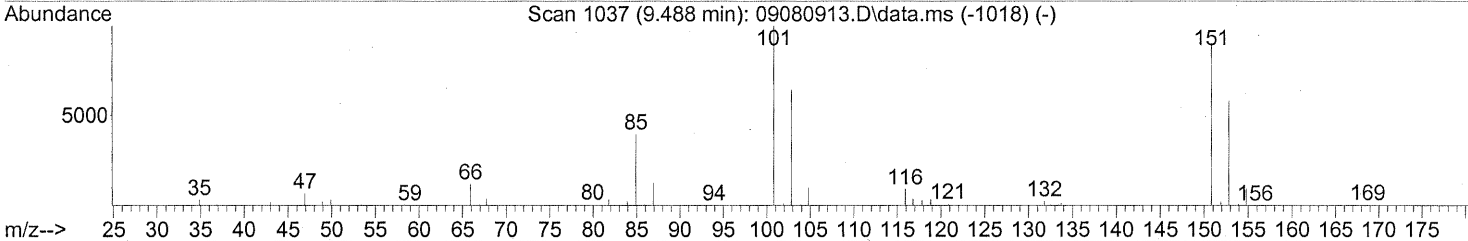
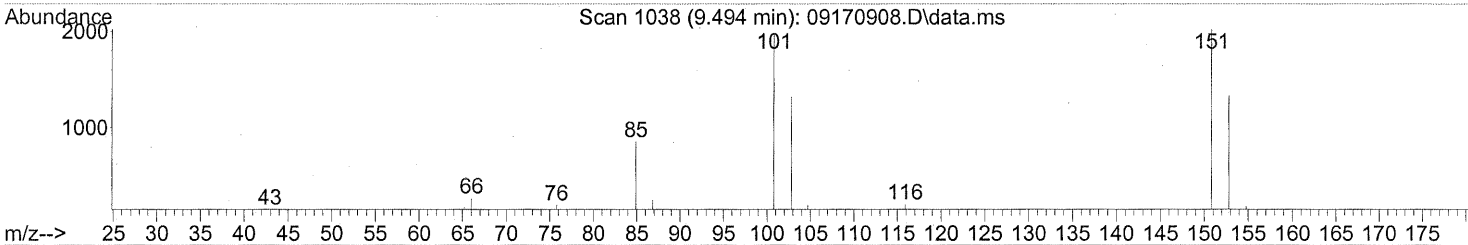
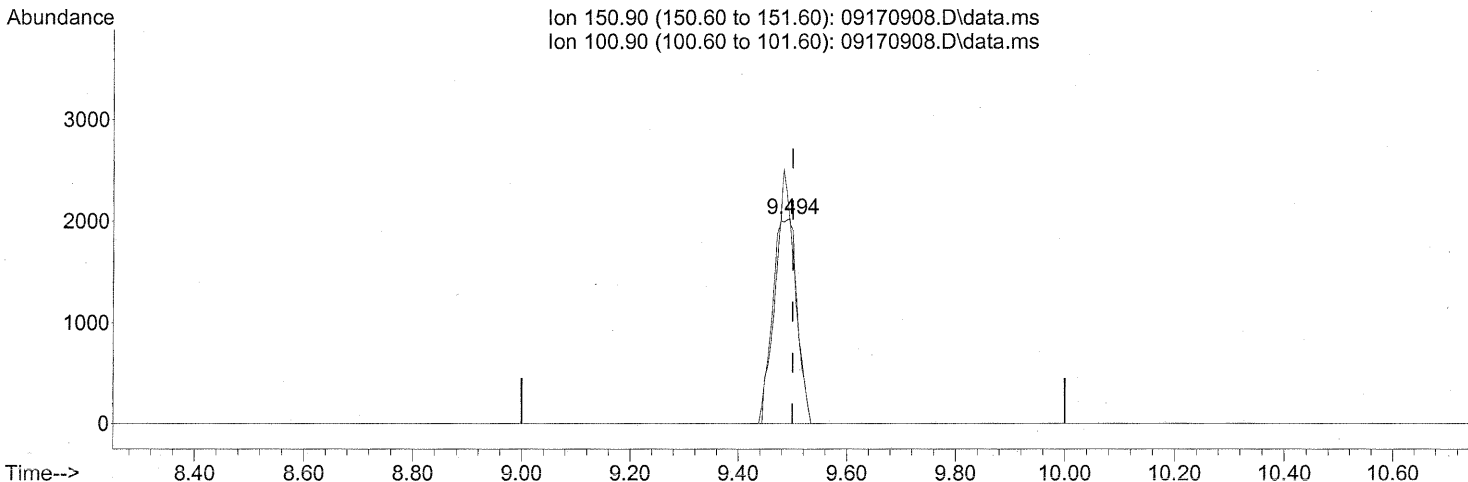
response 265766

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.494min (-0.006) 0.61ng

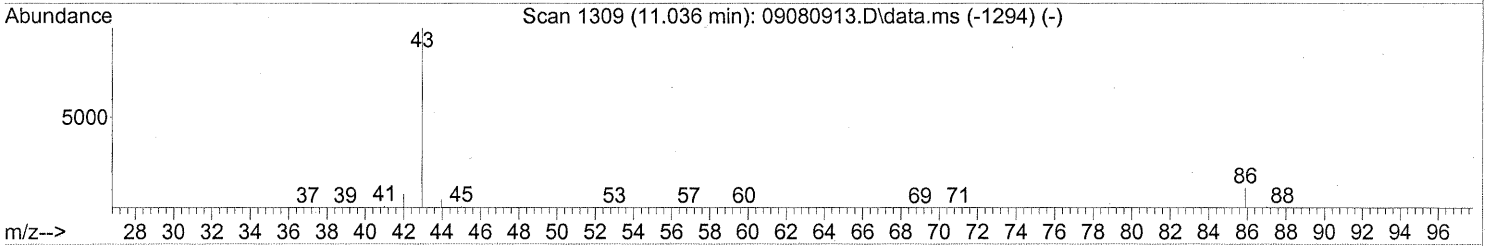
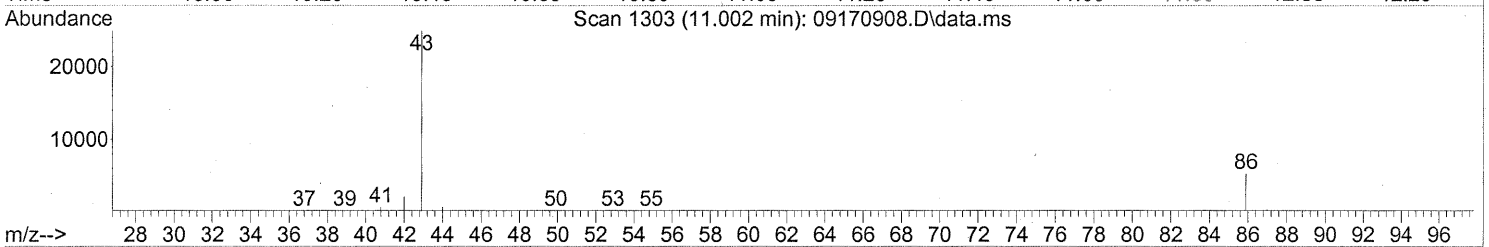
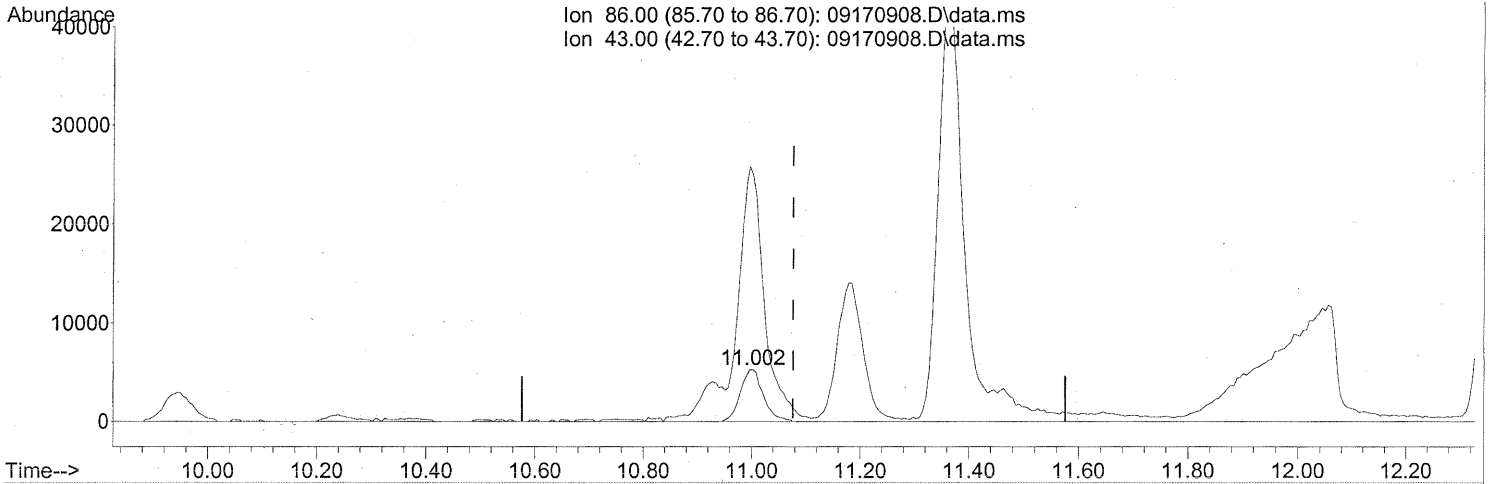
response 6030

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	109.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(26) Vinyl Acetate (T)

11.002min (-0.074) 6.18ng

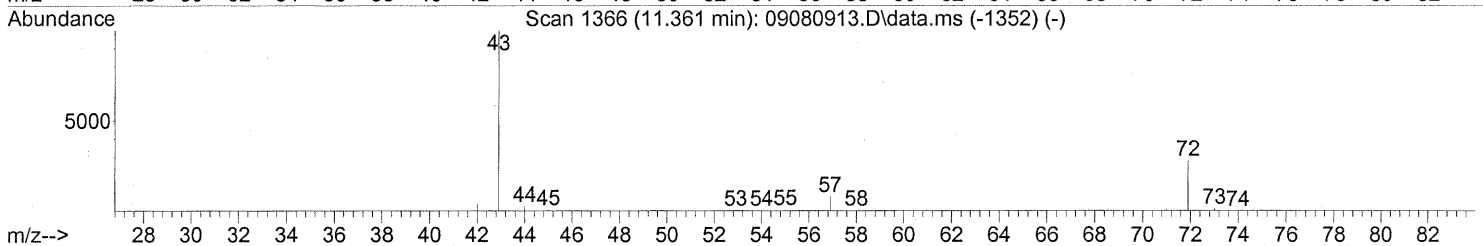
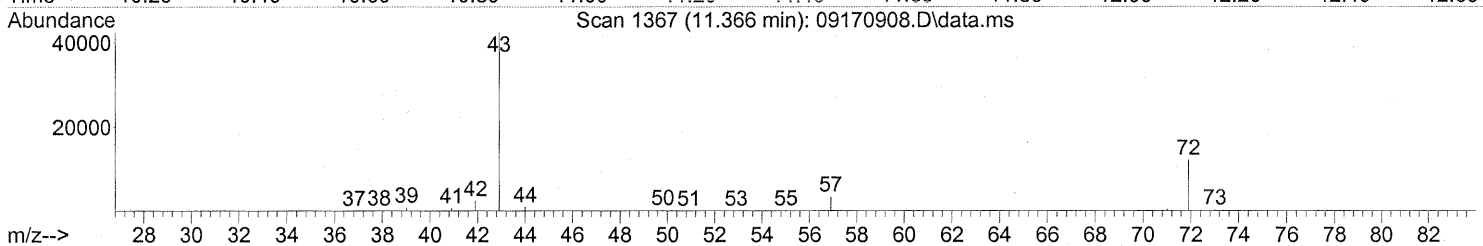
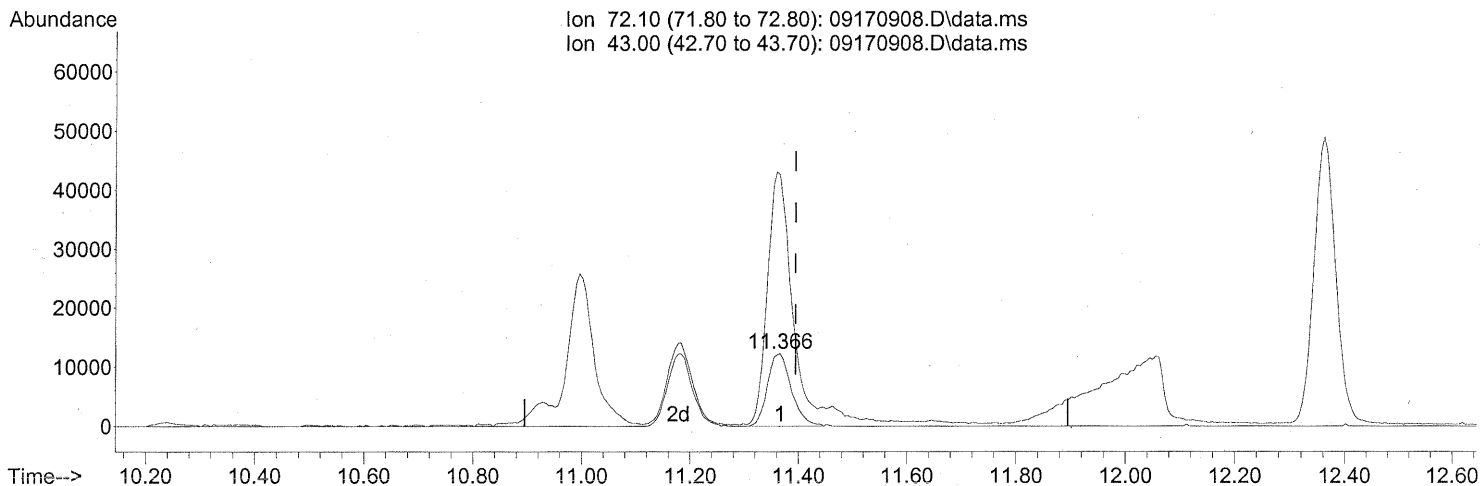
response 15428

Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	512.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(27) 2-Butanone (MEK) (T)

11.366min (-0.028) 4.67ng

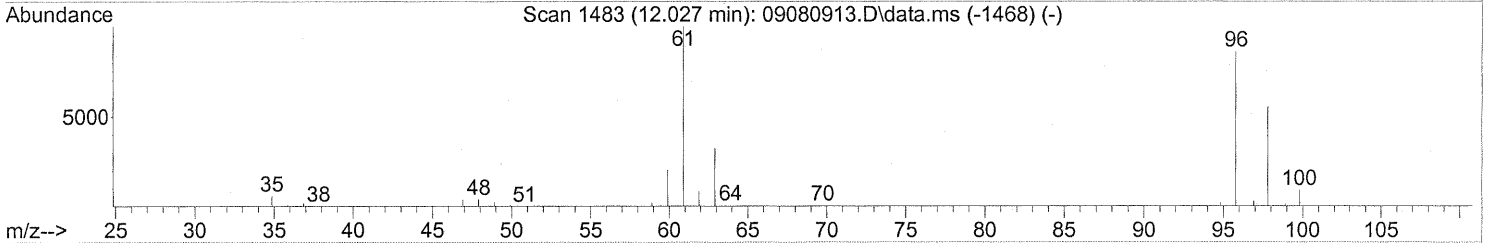
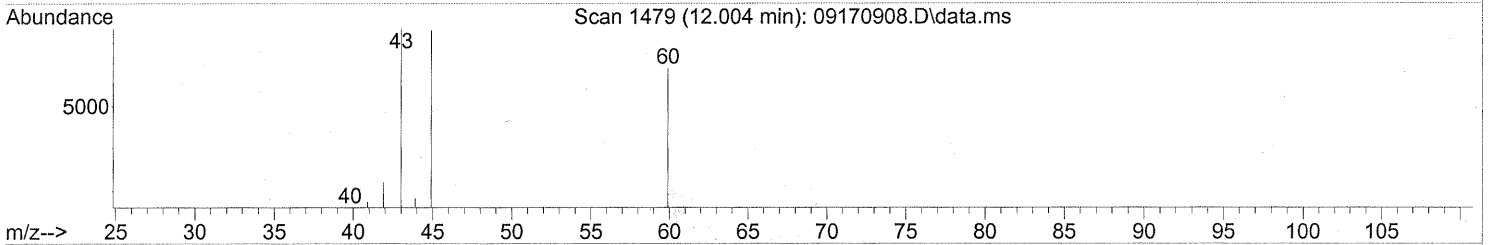
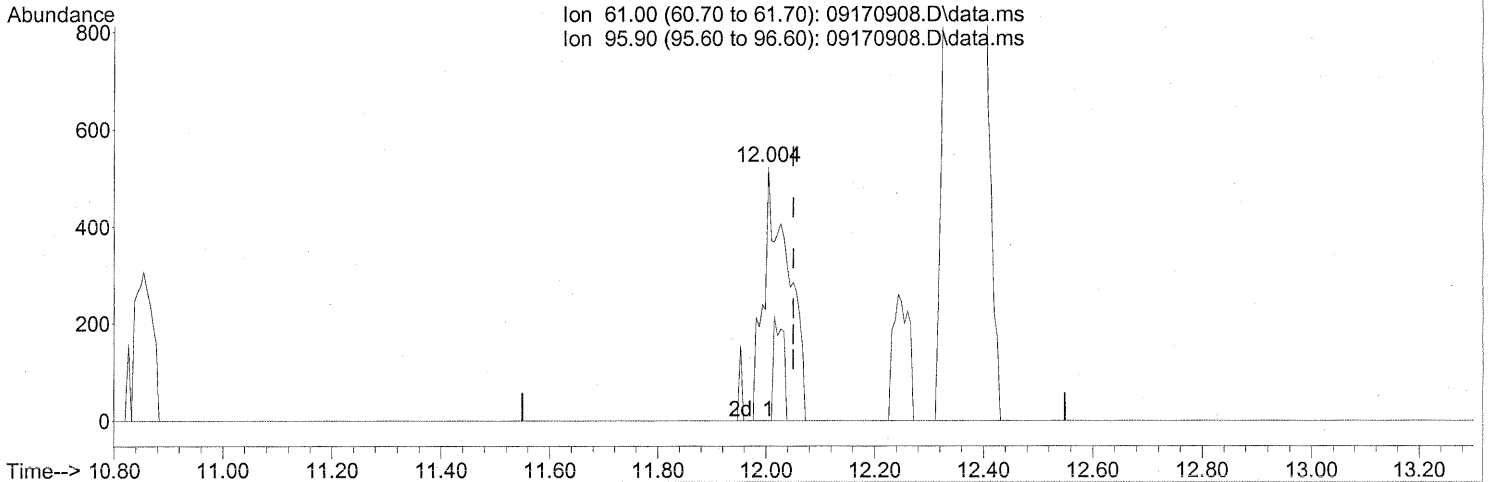
response 37213

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	392.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(28) cis-1,2-Dichloroethene (T)

12.004min (-0.046) 0.11ng

response 1648

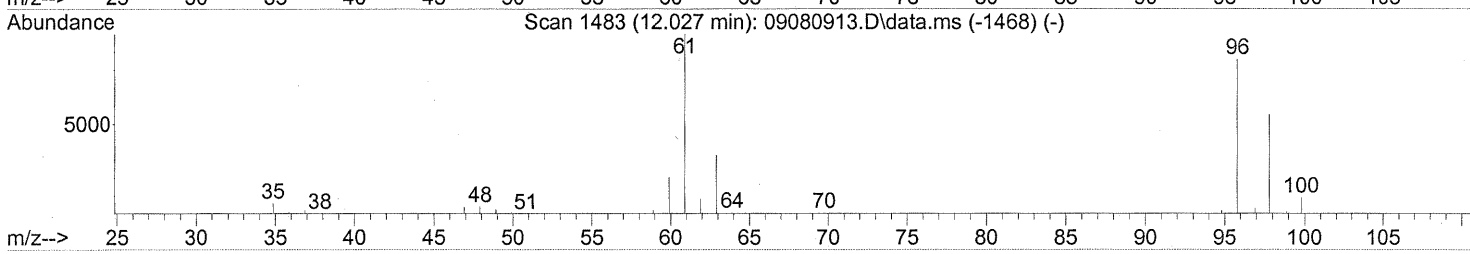
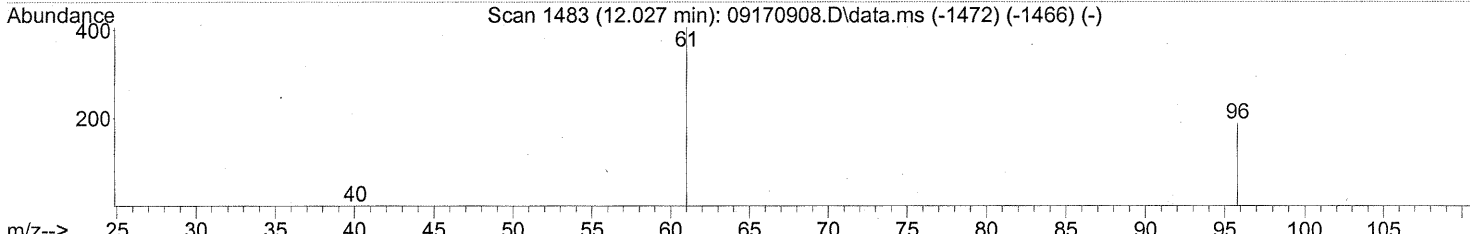
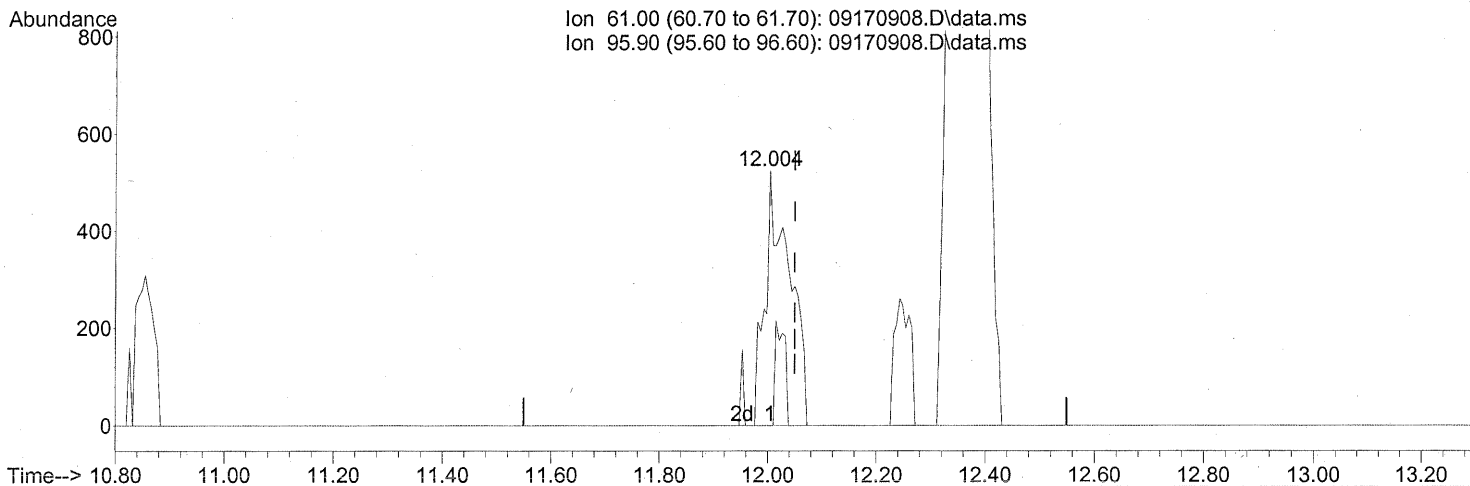
Ion	Exp%	Act%
61.00	100	100
95.90	72.80	15.78#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.004min (-0.046) 0.11ng

response 1648

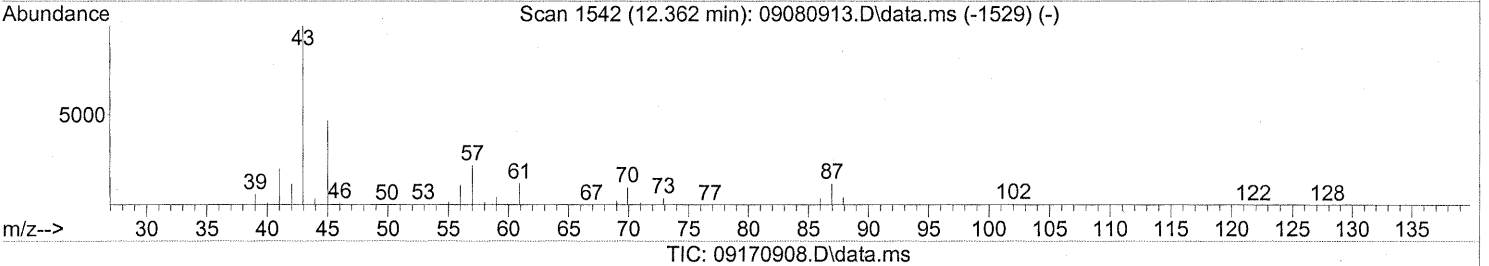
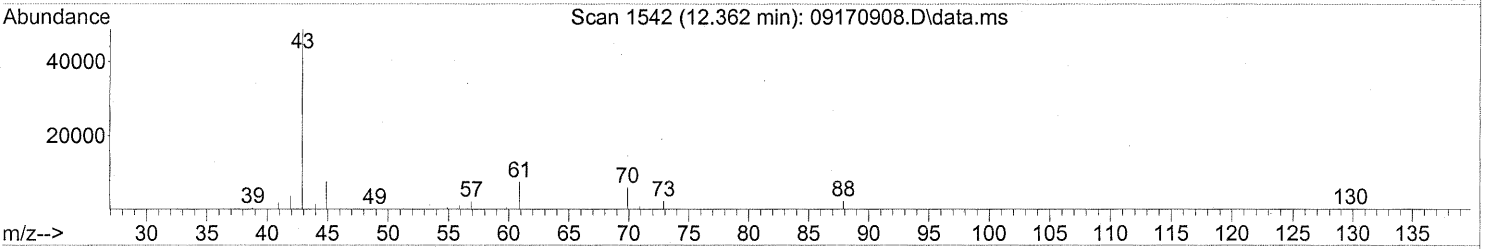
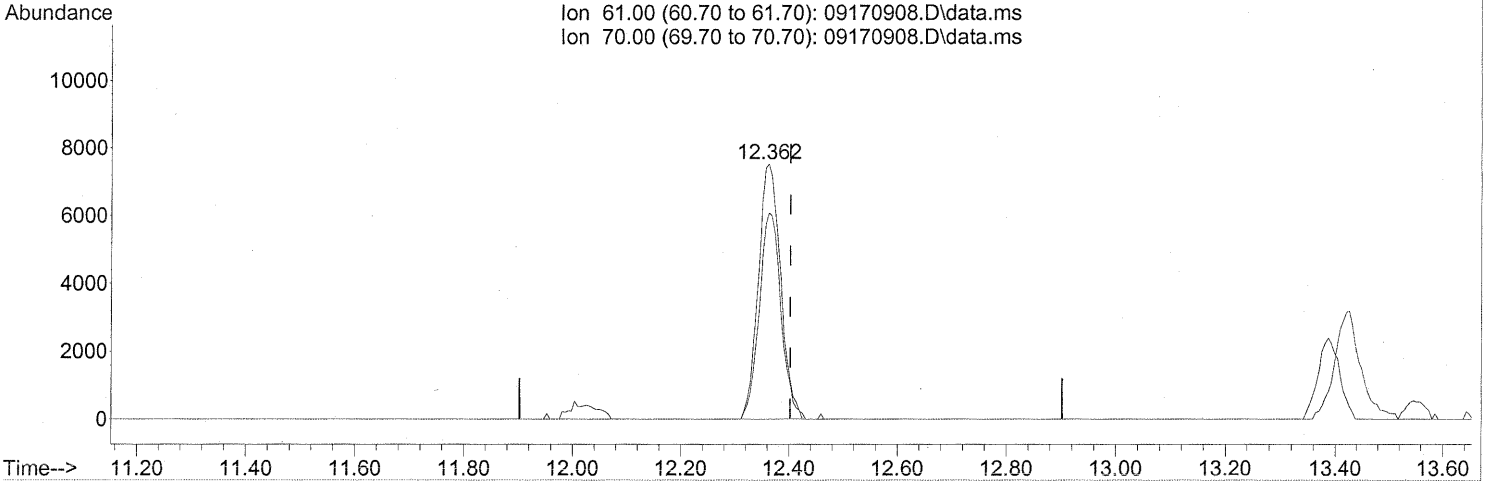
Ion	Exp%	Act%
61.00	100	100
95.90	72.80	15.78#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



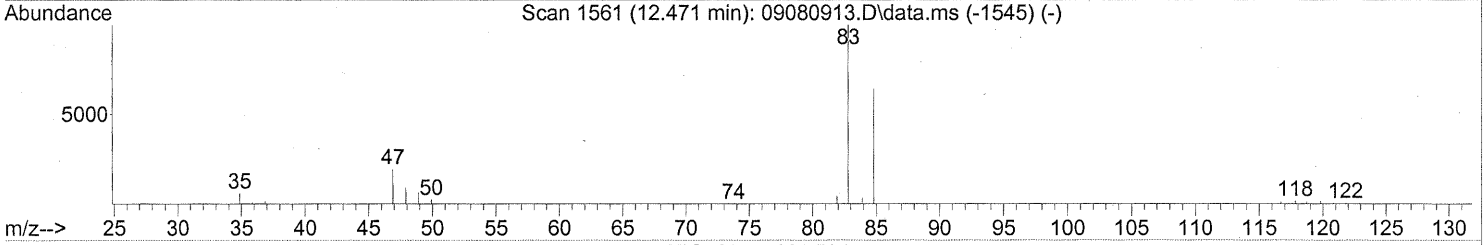
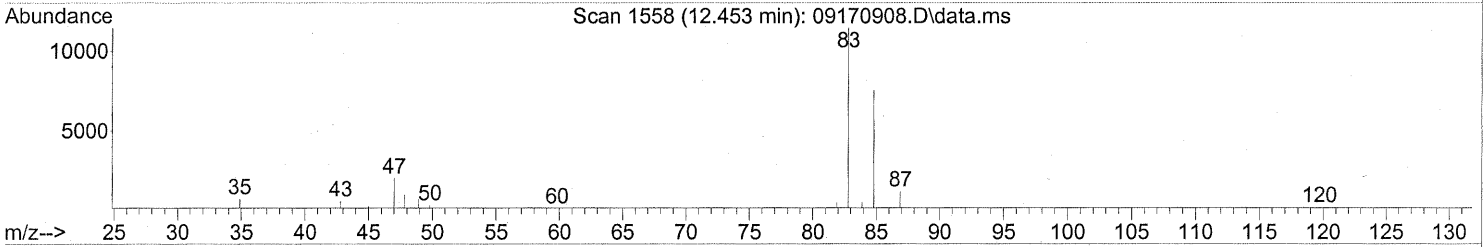
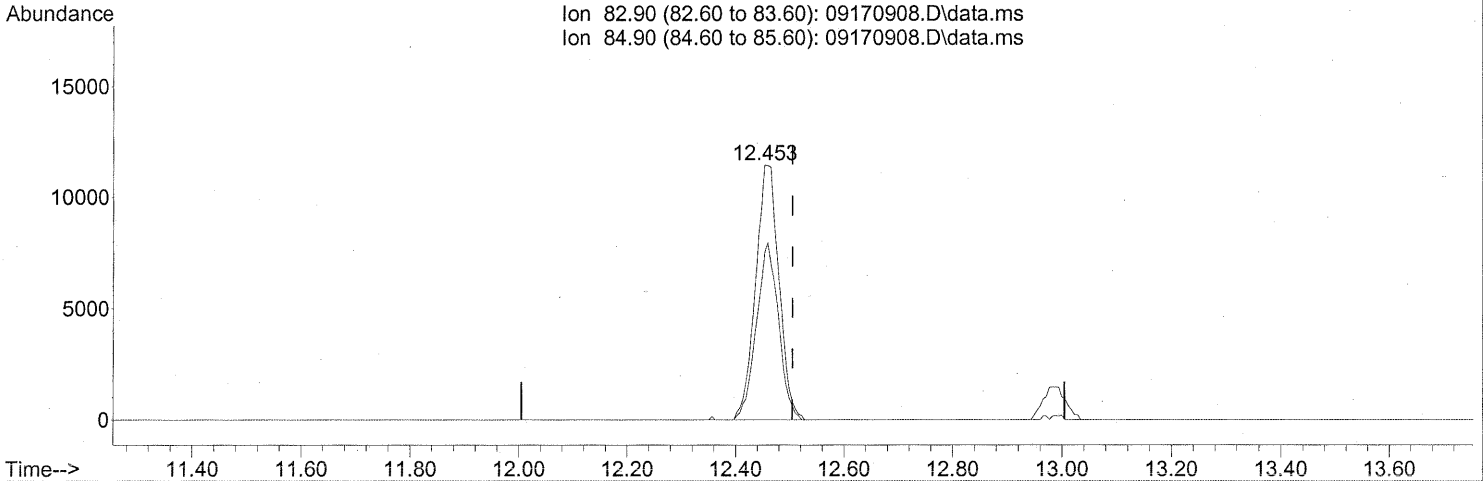
(30) Ethyl Acetate (T)
12.362min (-0.040) 5.34ng
response 21570

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	78.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(32) Chloroform (T)

12.453min (-0.051) 1.75ng

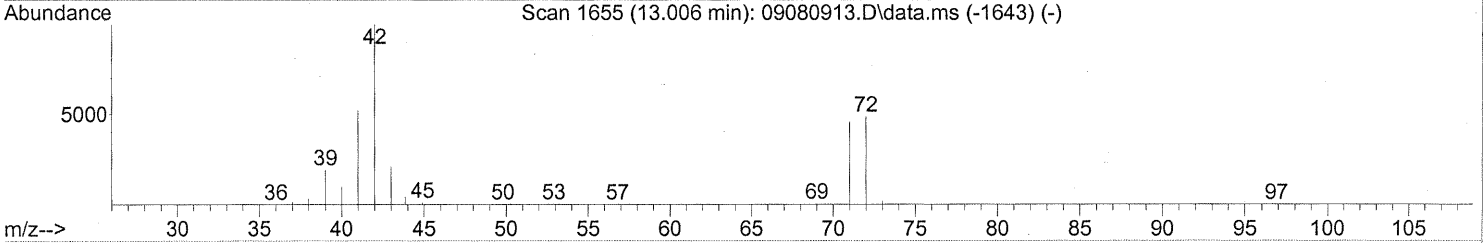
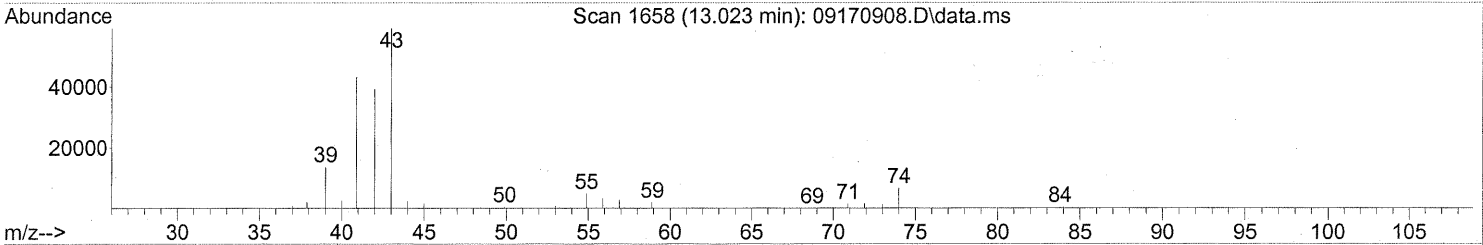
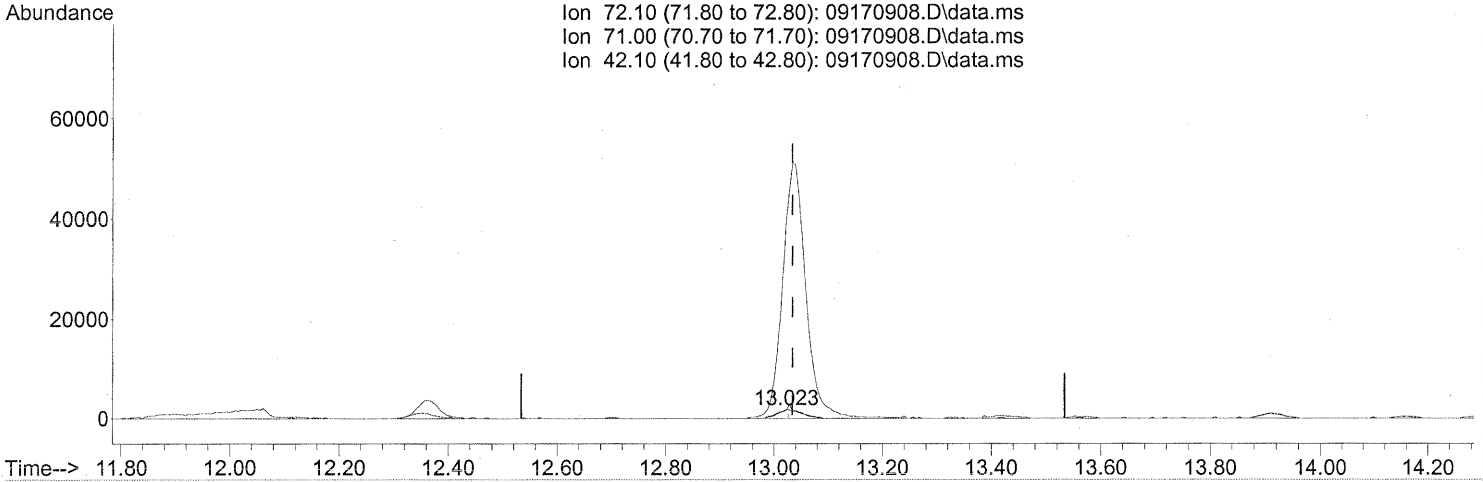
response 34367

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.023min (-0.011) 0.78ng

response 5725

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	97.05
42.10	240.00	2666.78#
0.00	0.00	0.00

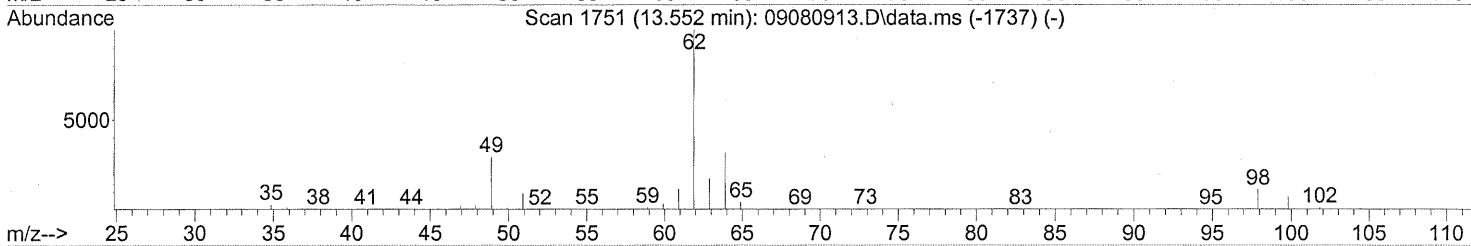
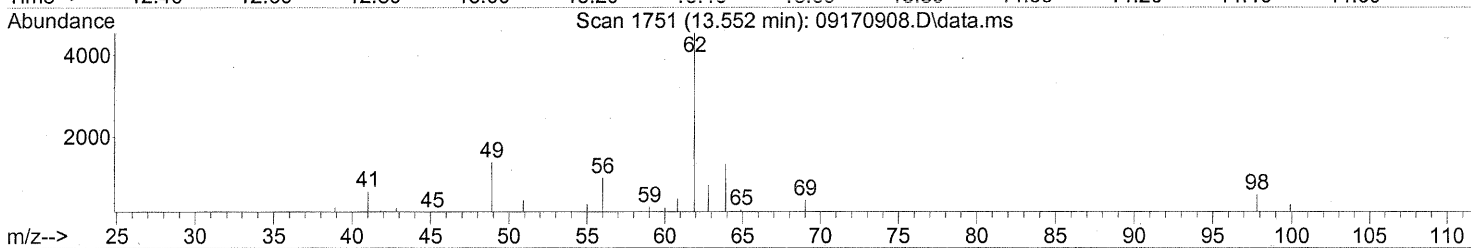
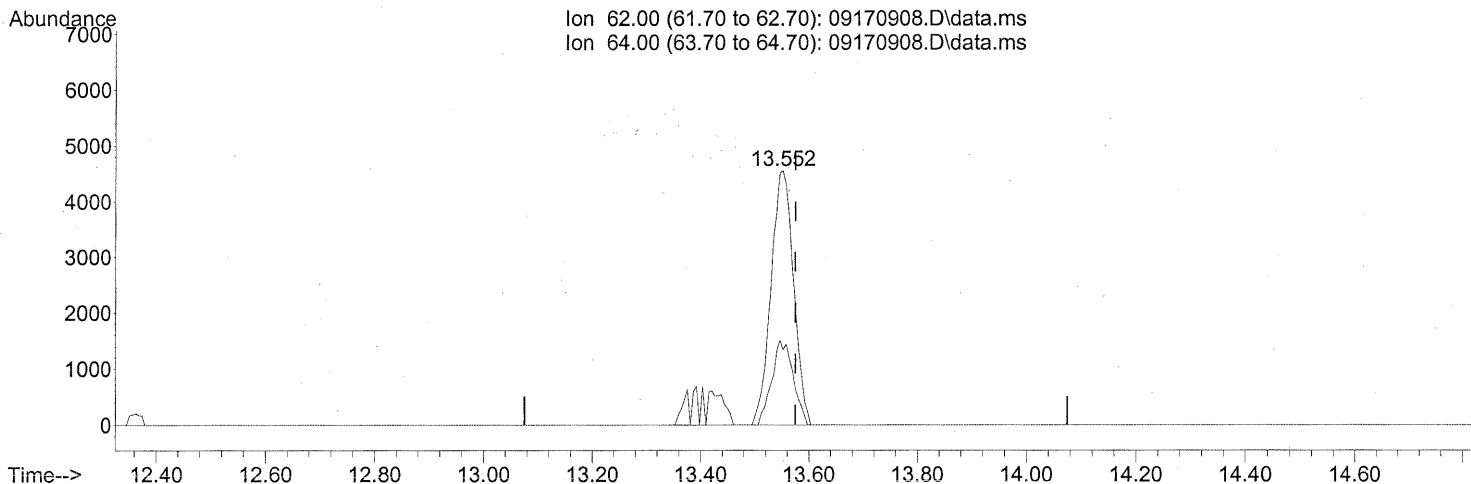
FP in 9/21/09

can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 0.97ng

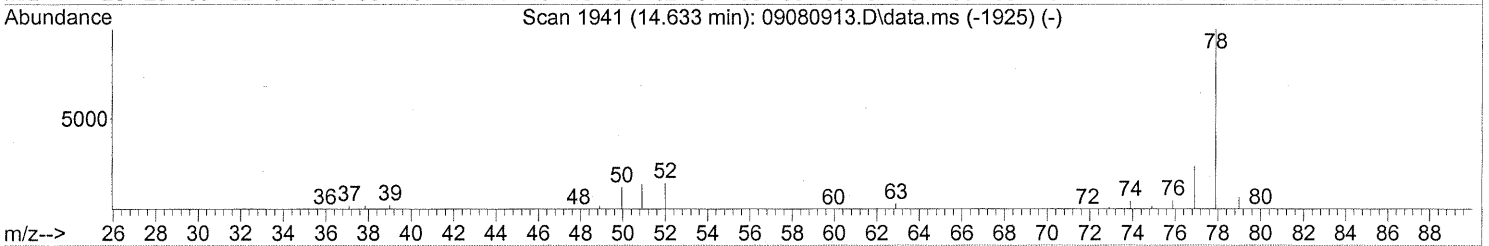
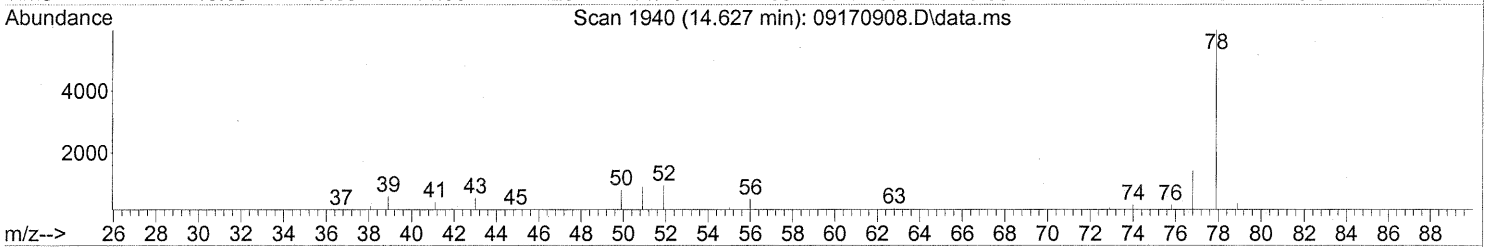
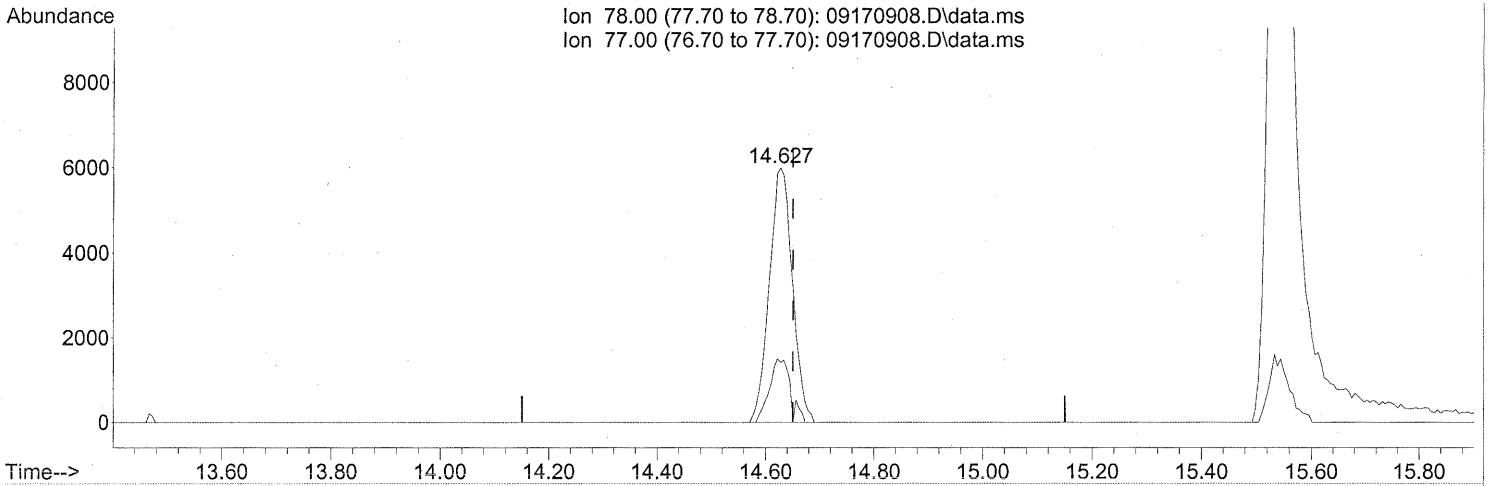
response 13111

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	31.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170908.D\data.ms

(41) Benzene (T)

14.627min (-0.023) 0.37ng

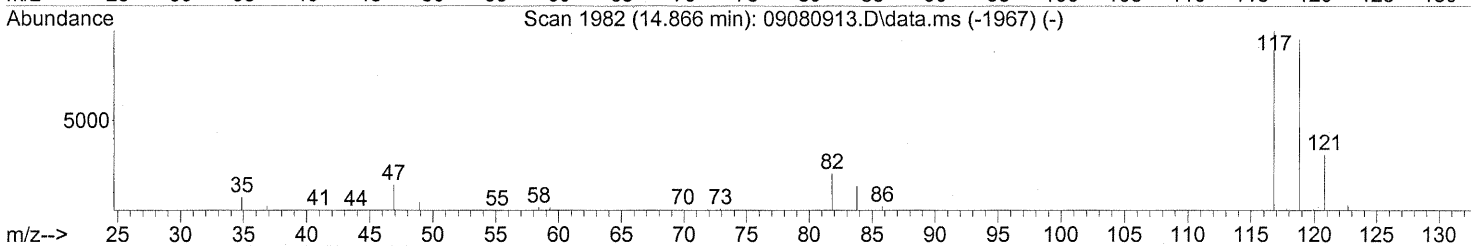
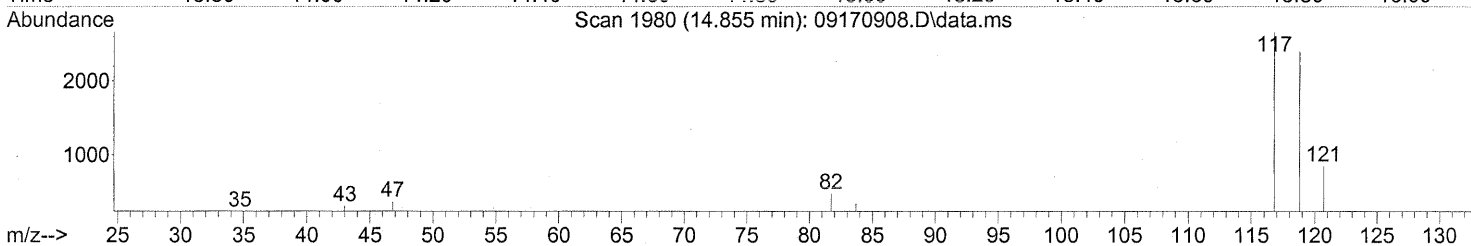
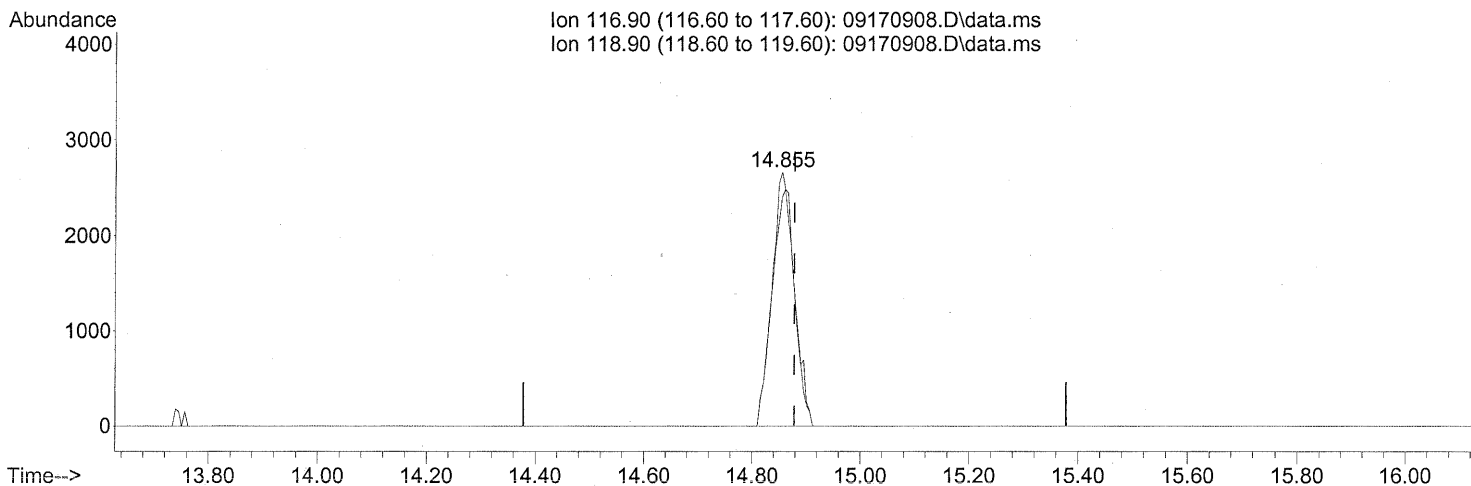
response 17672

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	22.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.53ng

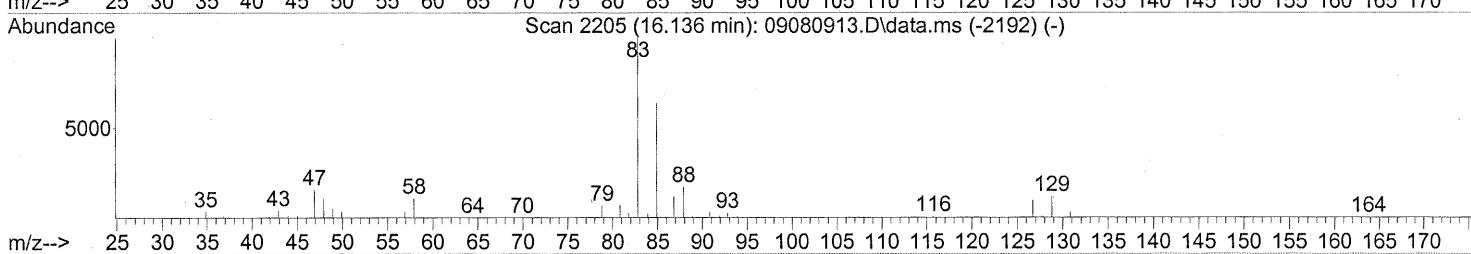
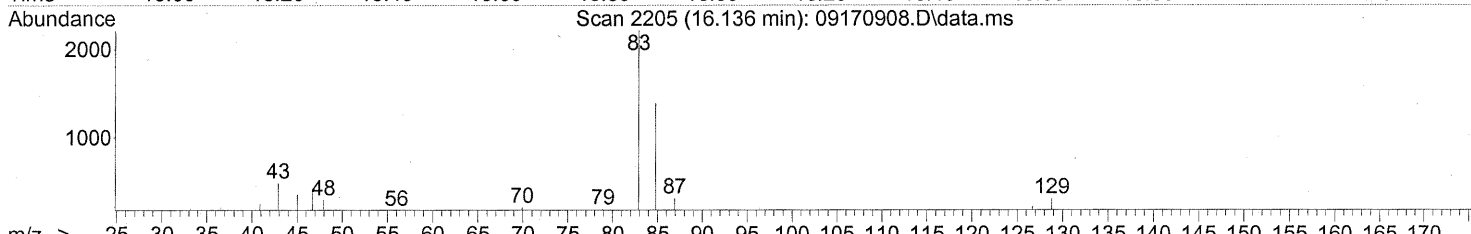
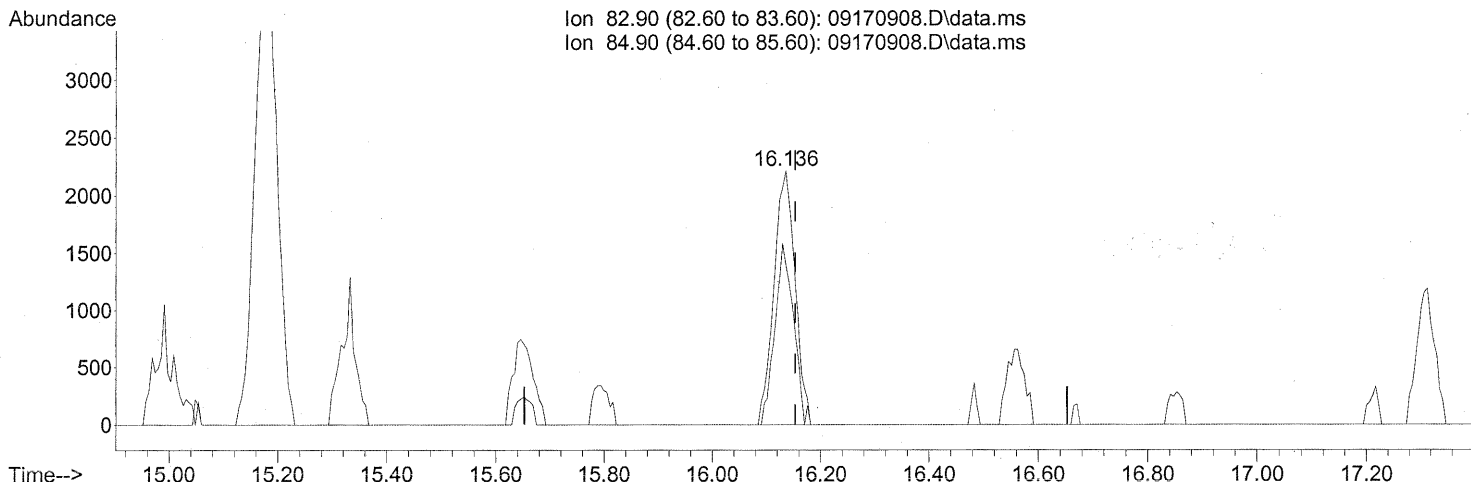
response 7610

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	94.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.136min (-0.017) 0.40ng

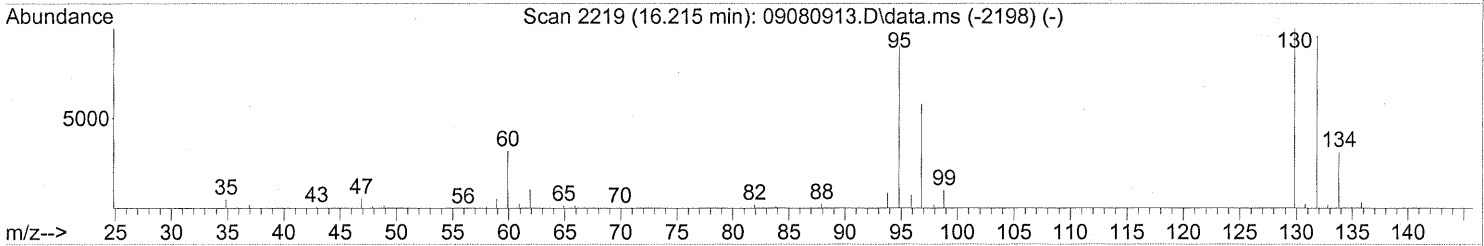
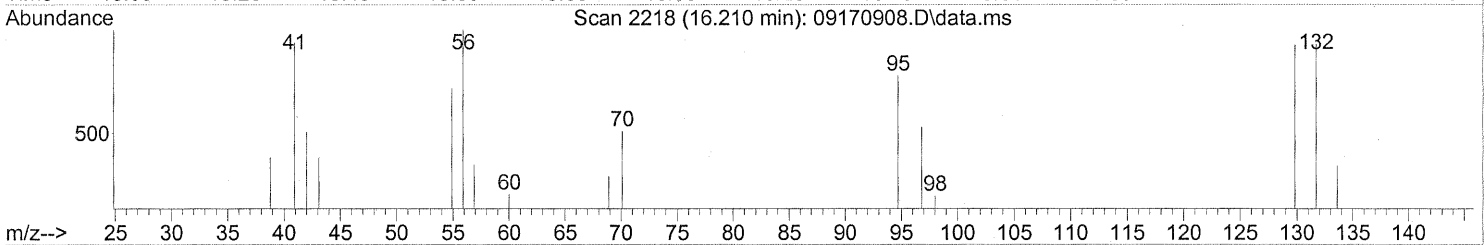
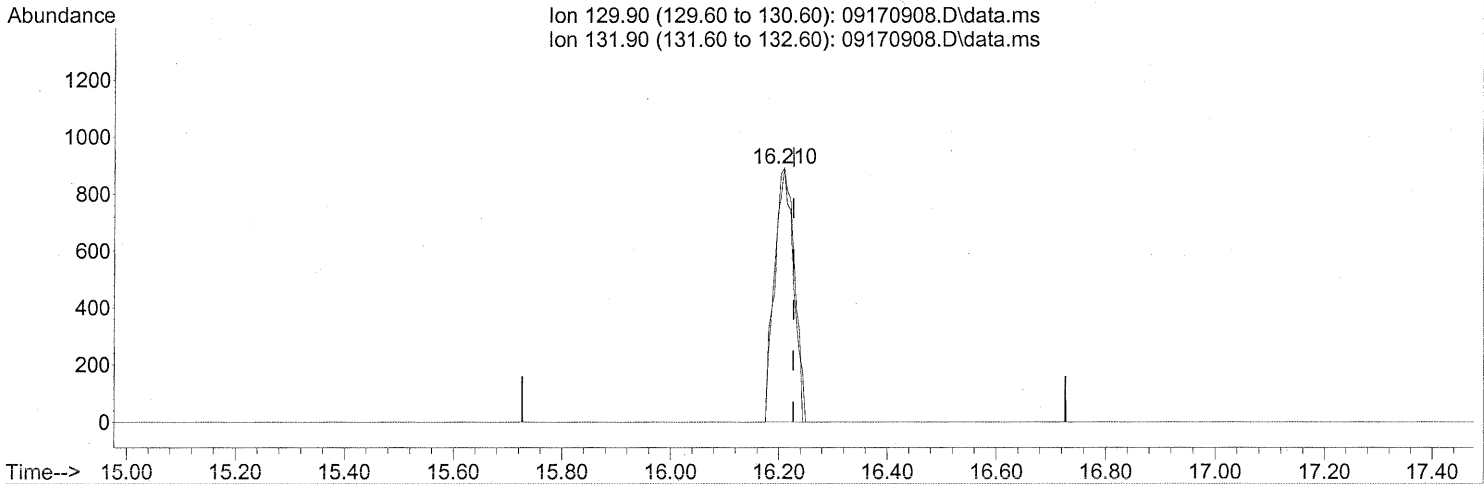
response 5989

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	62.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(47) Trichloroethene (T)

16.210min (-0.017) 0.15ng

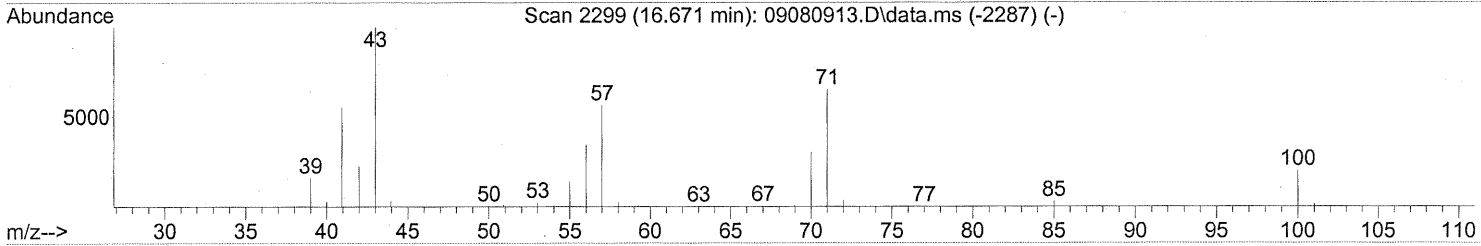
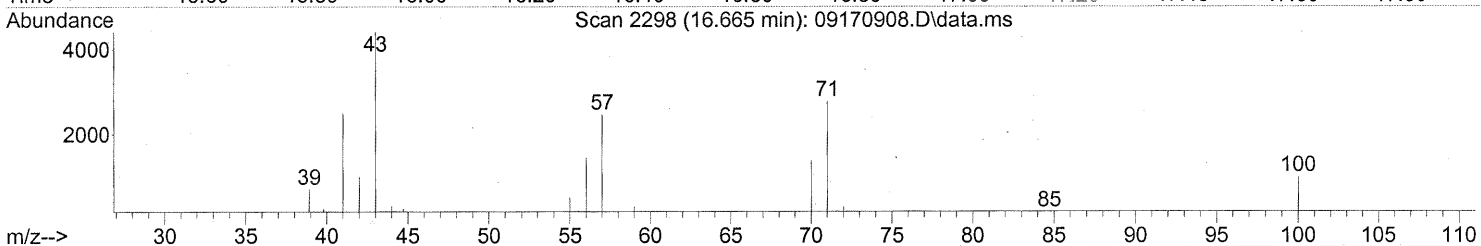
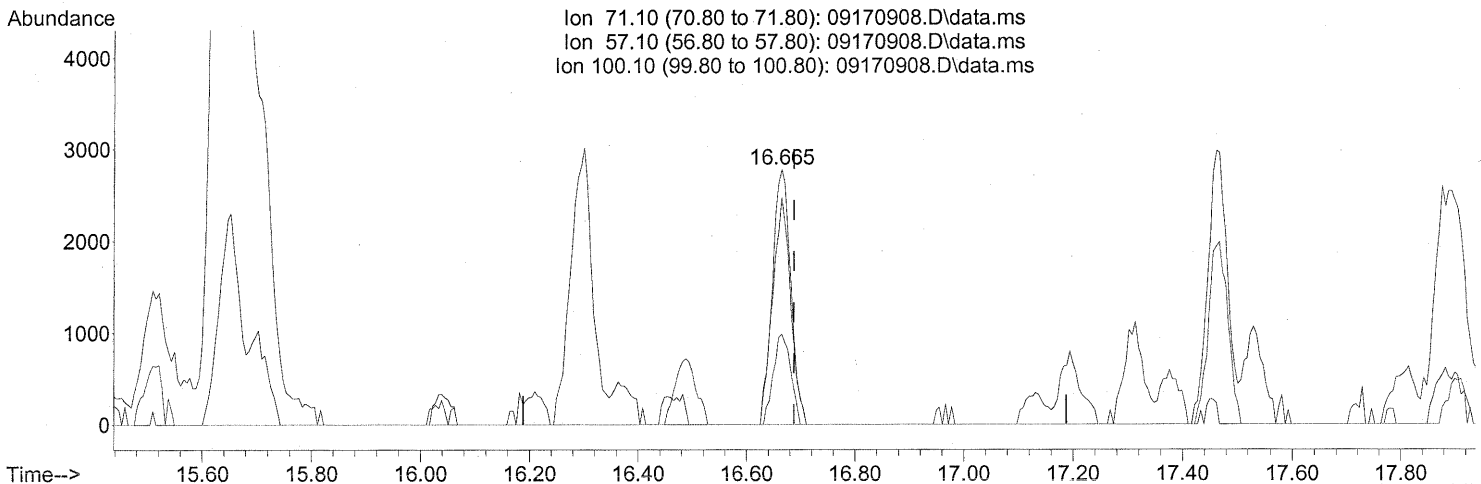
response 2215

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	98.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(51) n-Heptane (T)

16.665min (-0.023) 0.54ng

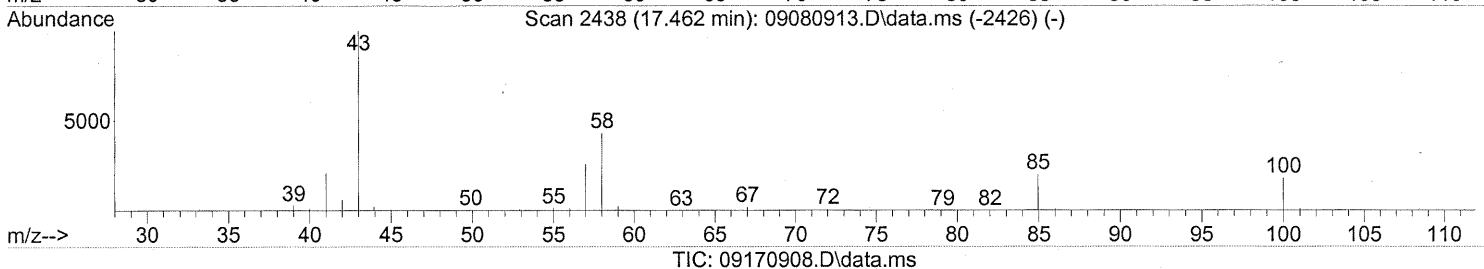
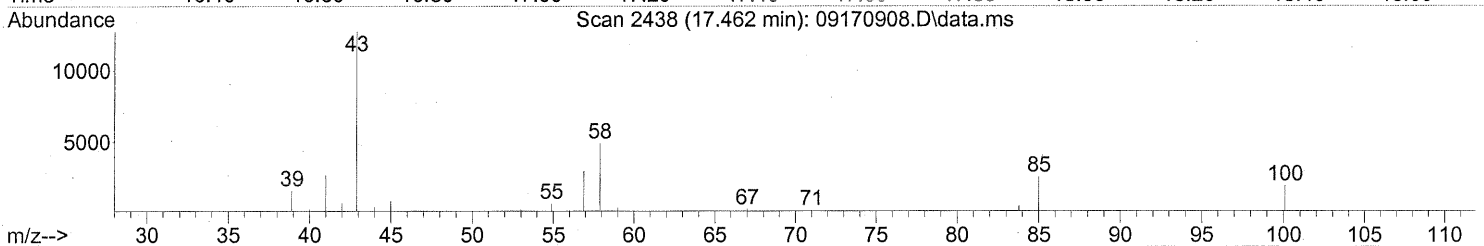
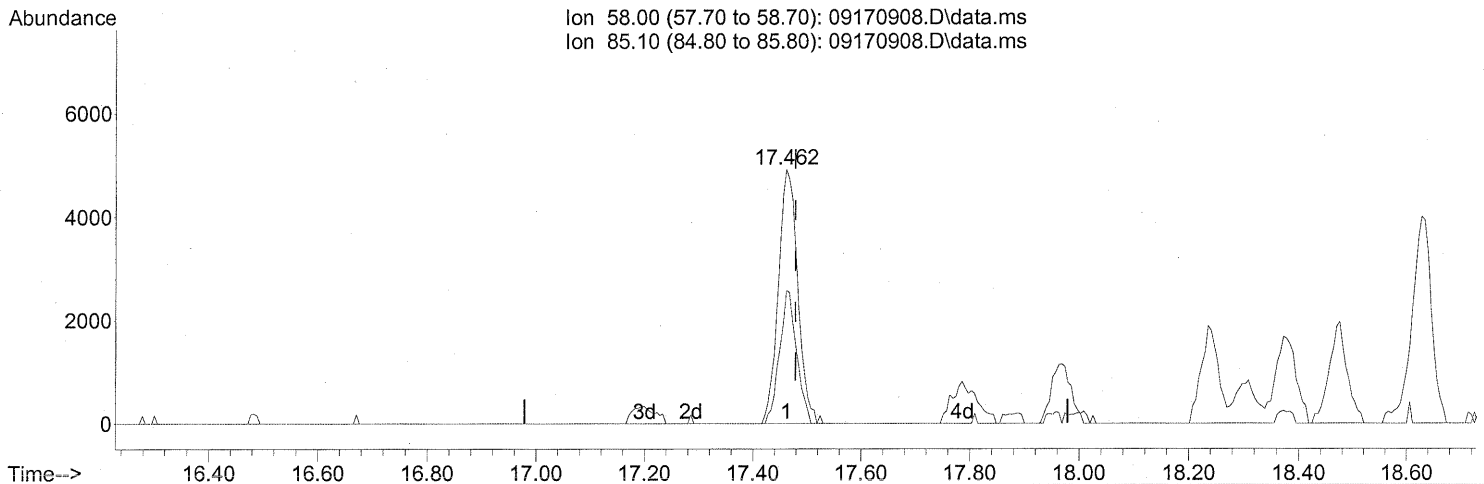
response 6596

Ion	Exp%	Act%
71.10	100	100
57.10	92.20	86.70
100.10	26.80	33.47
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 1.15ng

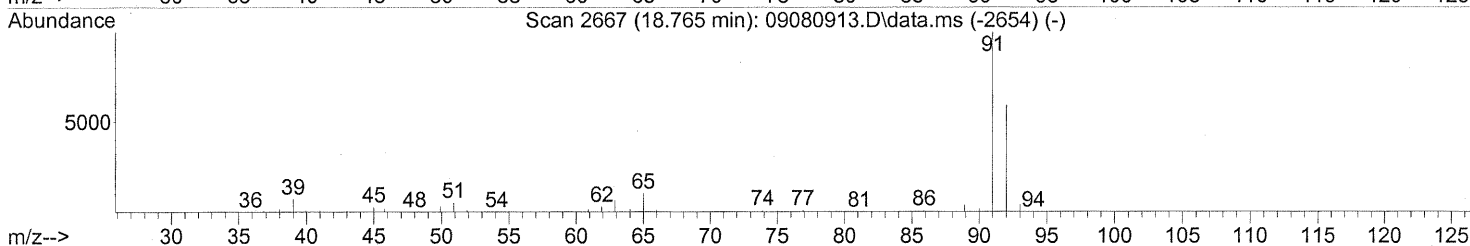
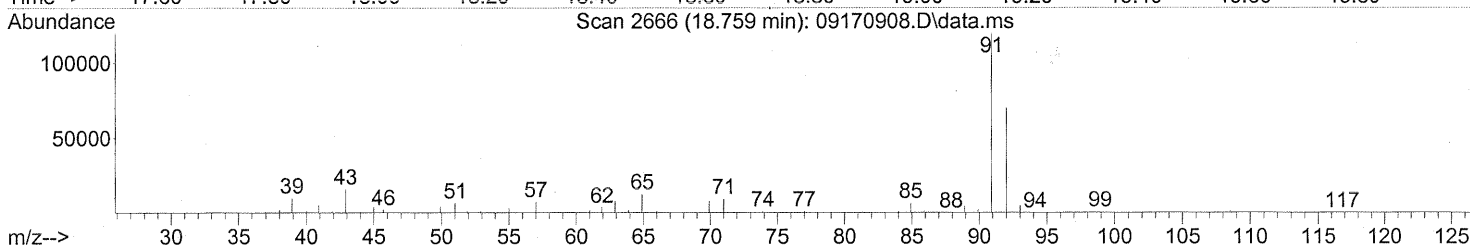
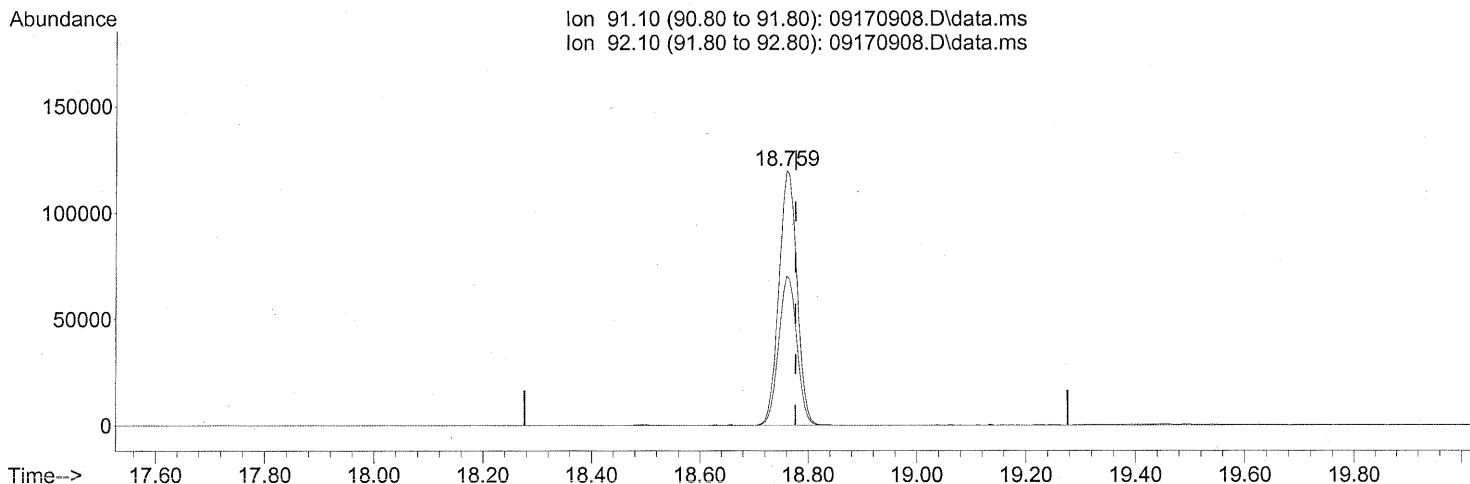
response 12321

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	46.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(58) Toluene (T)

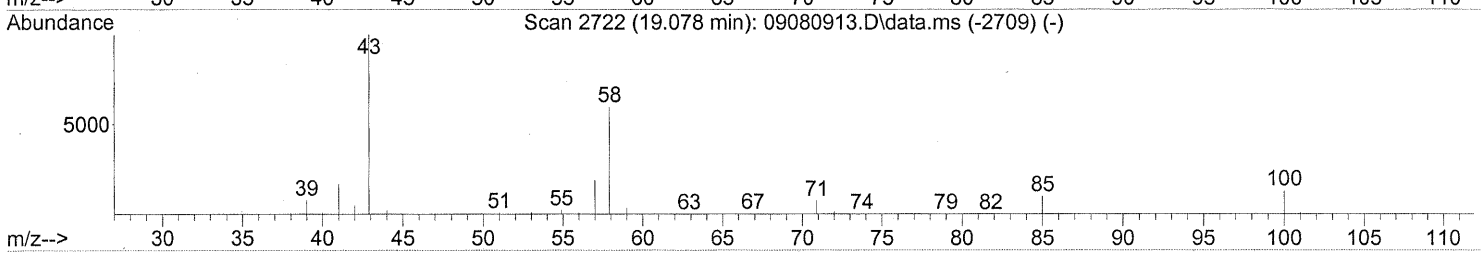
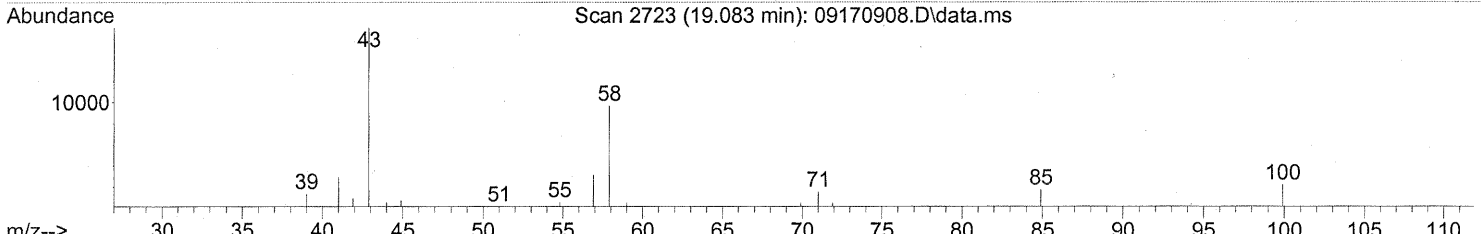
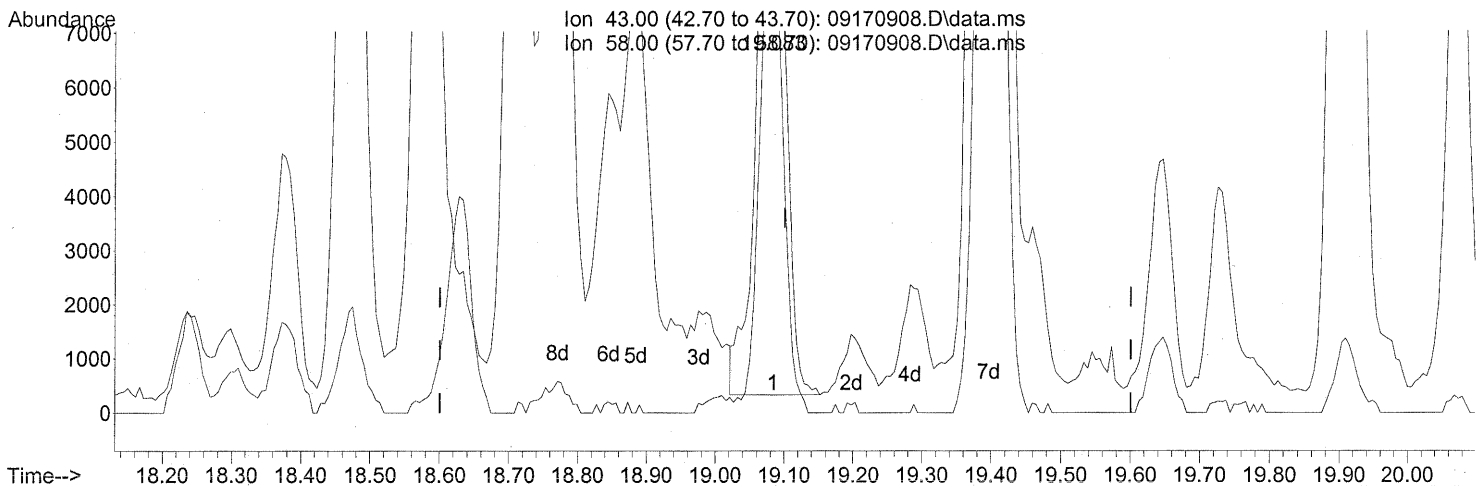
18.759min (-0.017) 5.13ng
 response 277498

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.083min (-0.017) 1.49ng

response 38874

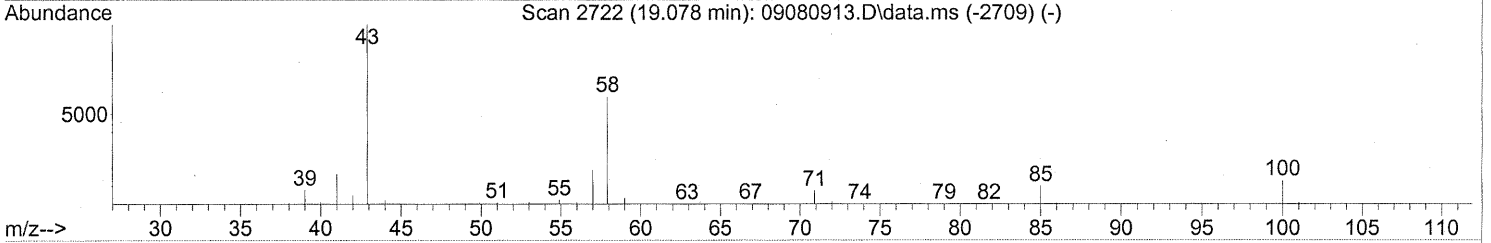
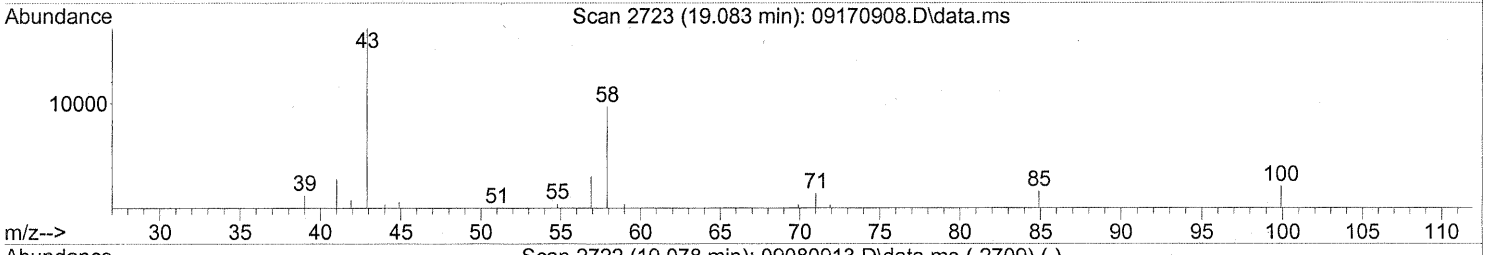
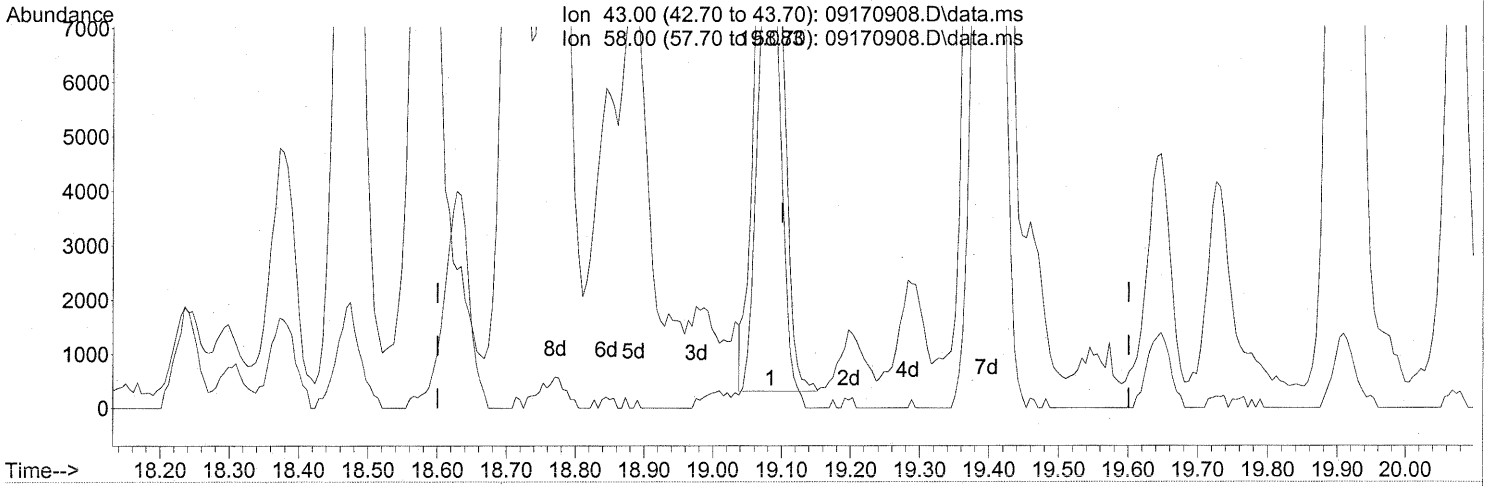
1P1

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	56.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 21 12:19:29 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.083min (-0.017) 1.45ng m
 response 37836

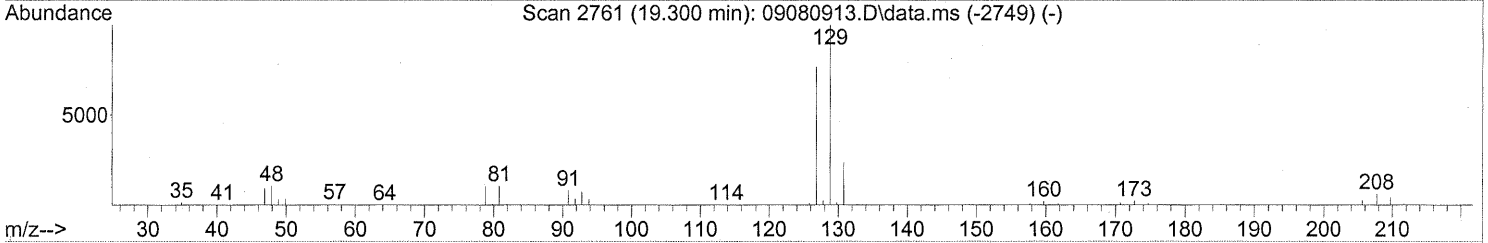
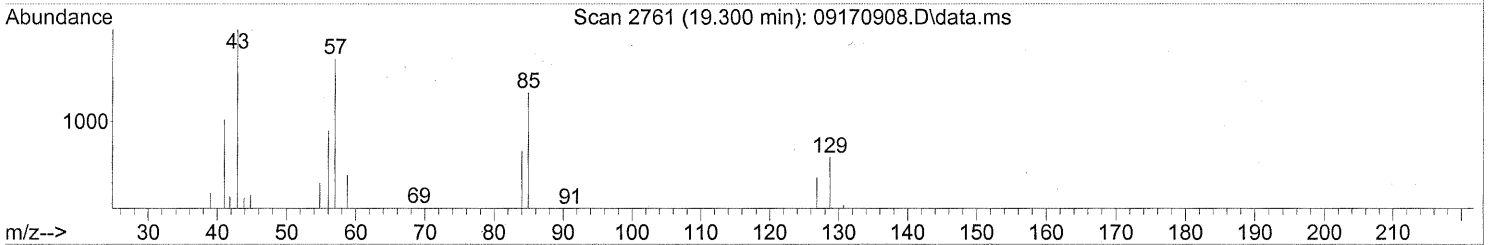
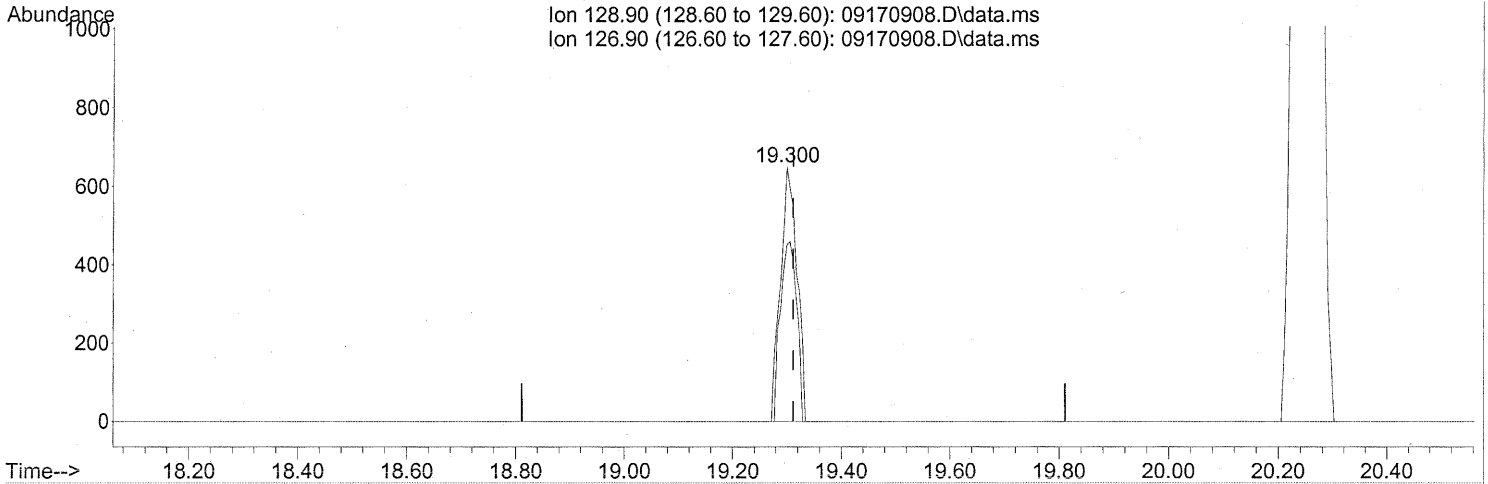
Ion	Exp%	Act%
43.00	100	100
58.00	55.60	58.28
0.00	0.00	0.00
0.00	0.00	0.00

*IP1 → IC
 W 9/21/09
 Sem 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.300min (-0.011) 0.10ng

response 1363

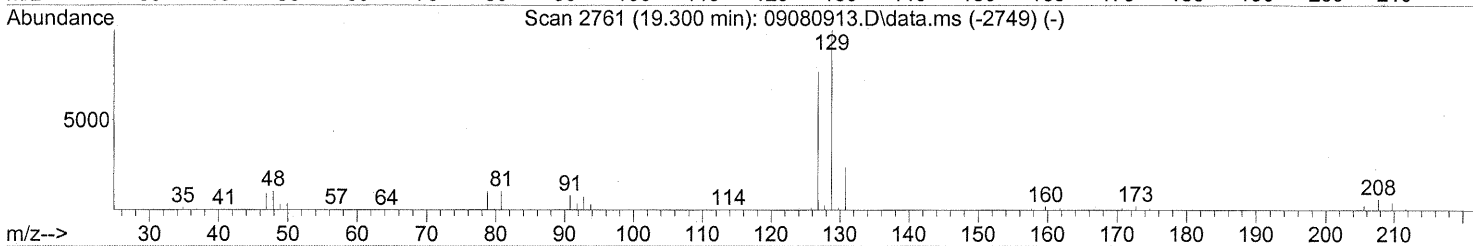
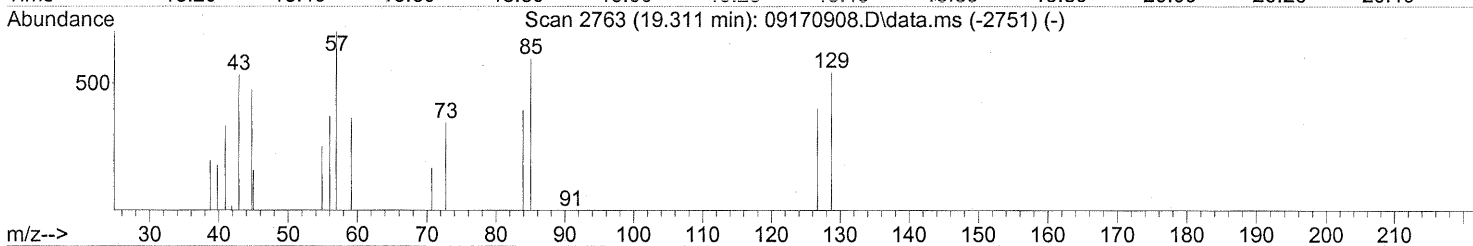
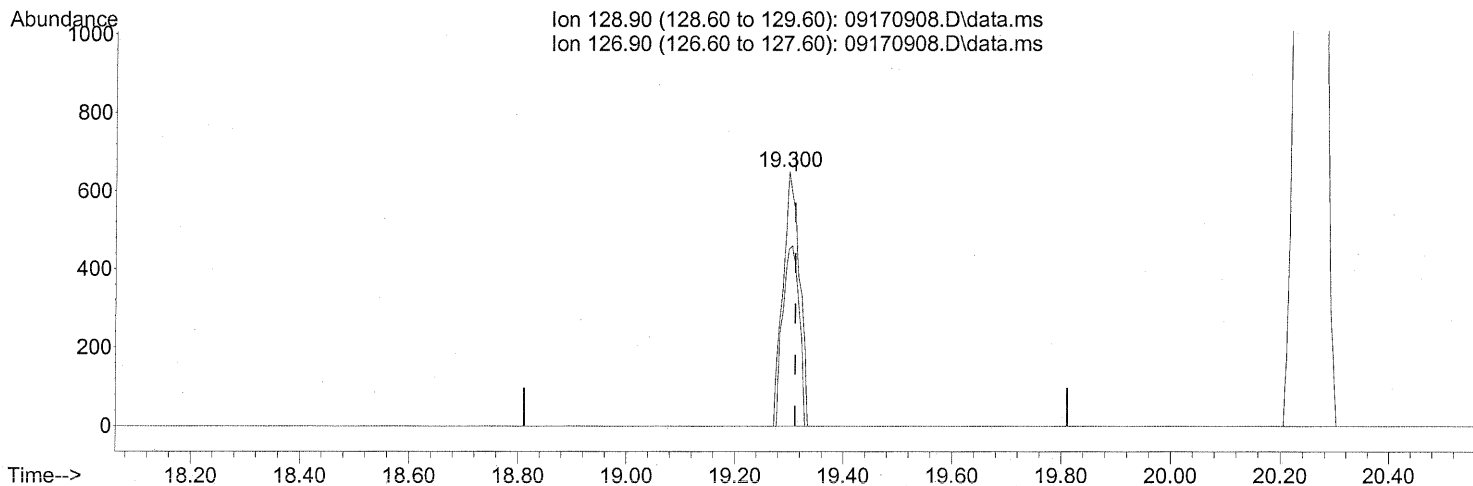
Ion	Exp%	Act%
128.90	100	100
126.90	77.60	69.33
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(60) Dibromochloromethane (T)

19.300min (-0.011) 0.10ng

response 1363

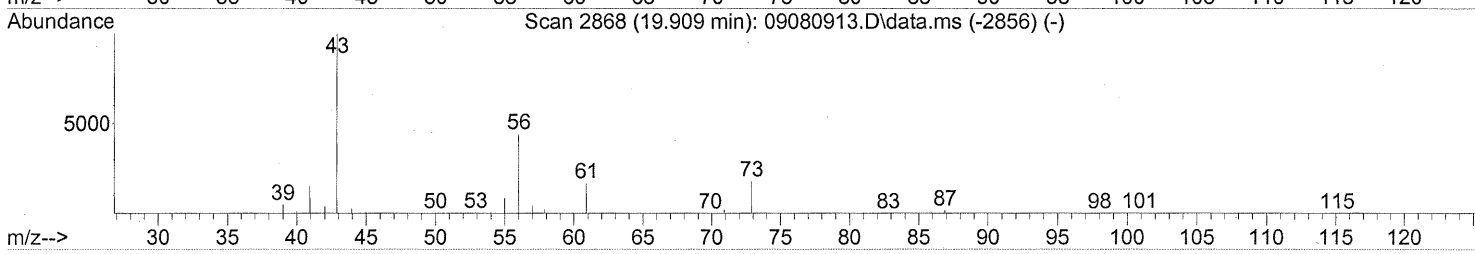
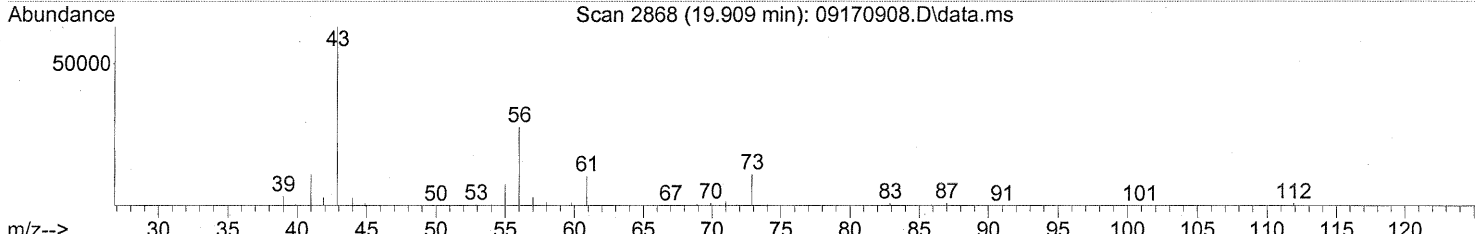
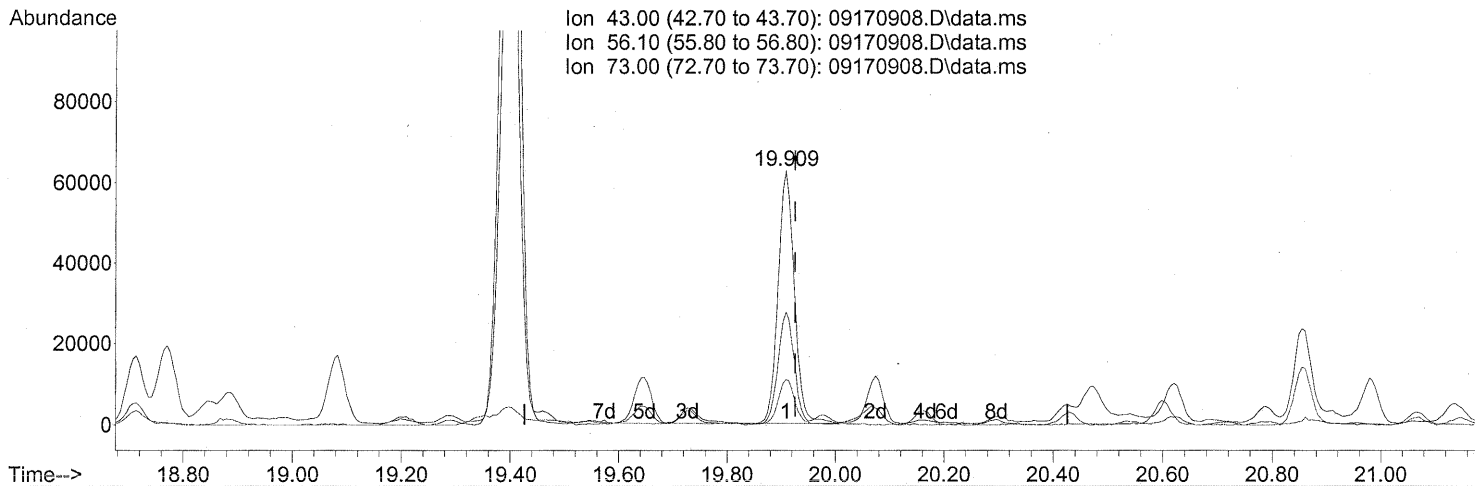
Ion	Exp%	Act%
128.90	100	100
126.90	77.60	69.33
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

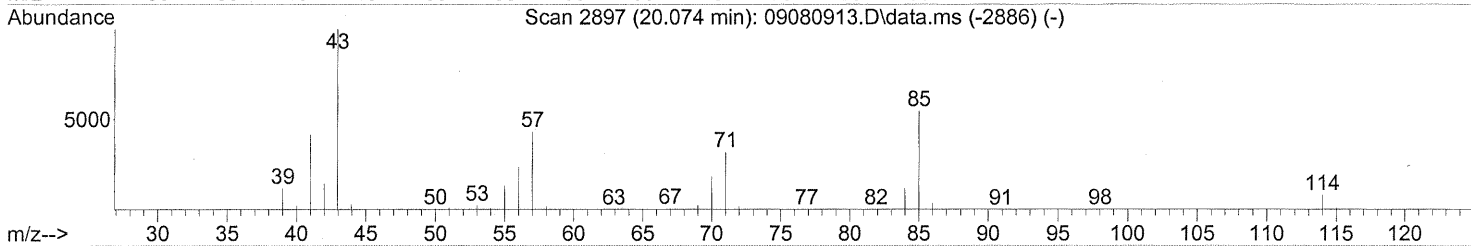
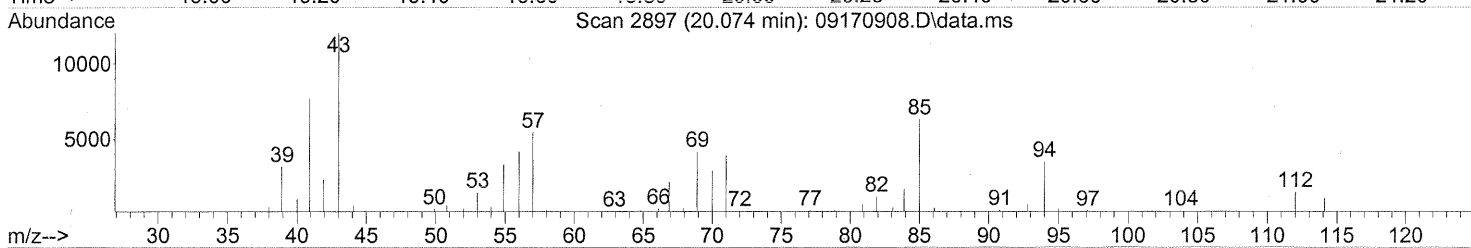
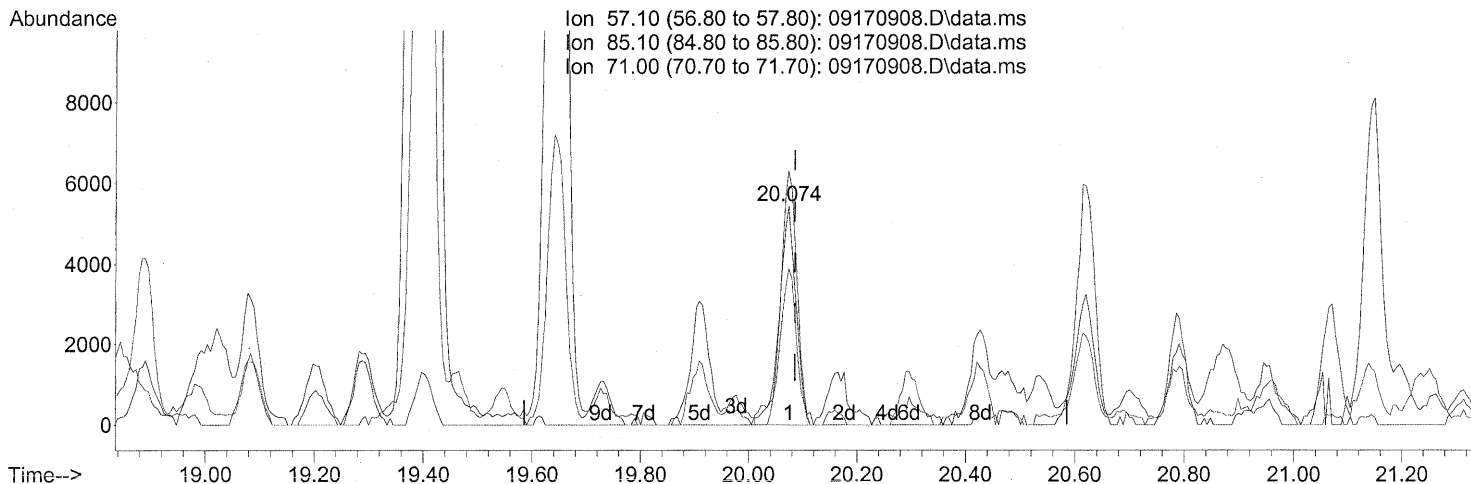
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 4.37ng
 response 130486

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	45.39
73.00	15.40	18.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.074min (-0.011) 1.16ng

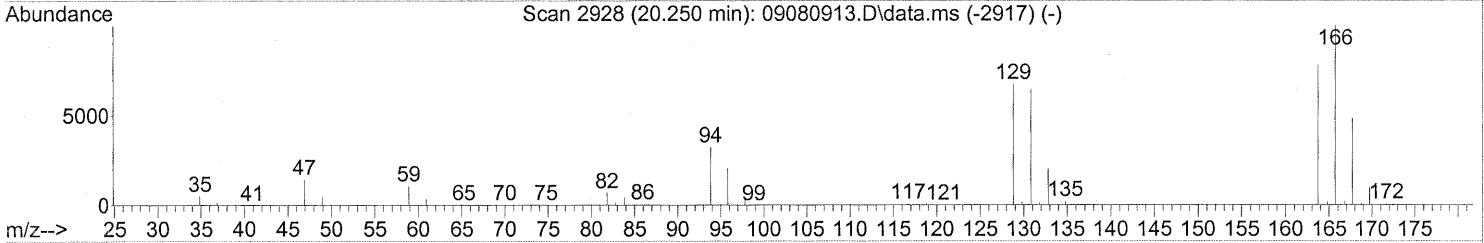
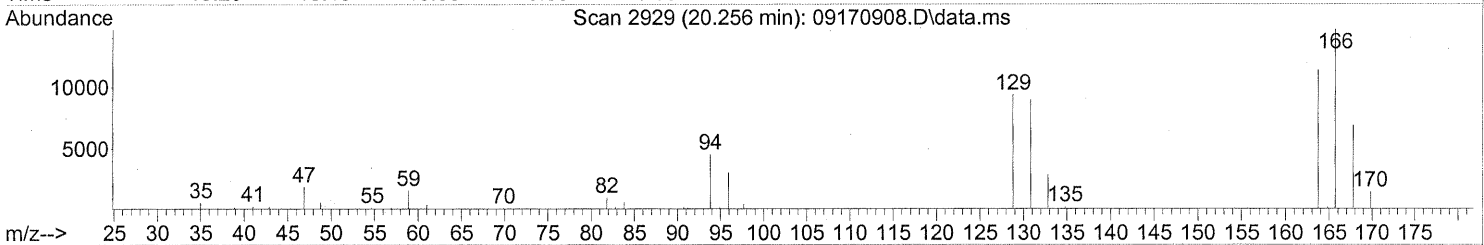
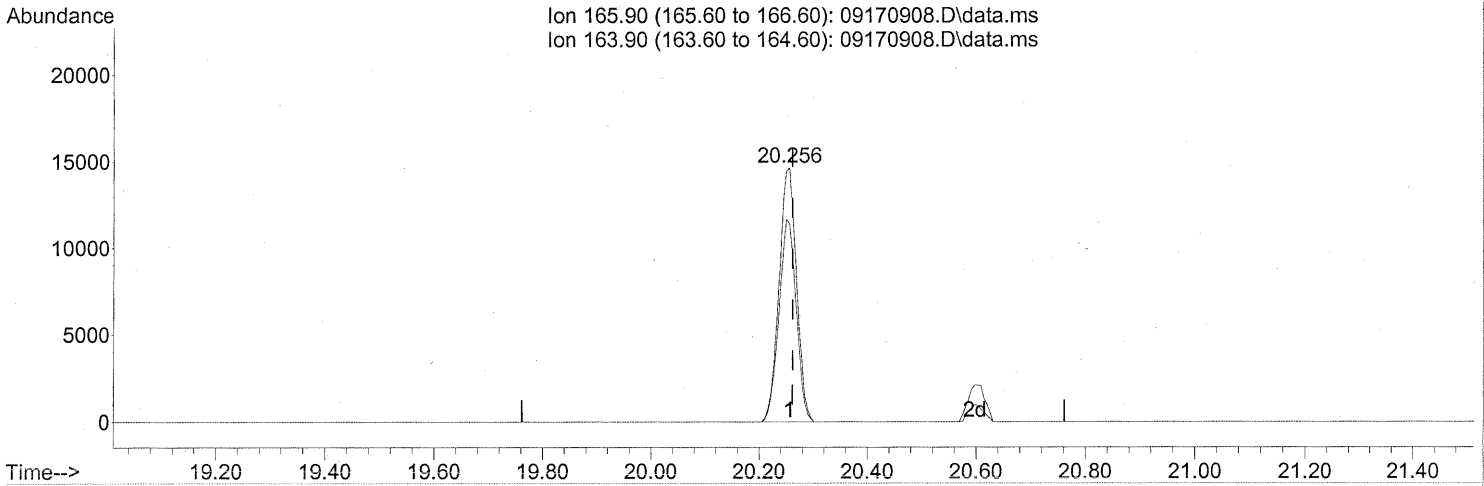
response 11784

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	109.44
71.00	69.40	74.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(64) Tetrachloroethene (T)

20.256min (-0.006) 1.97ng

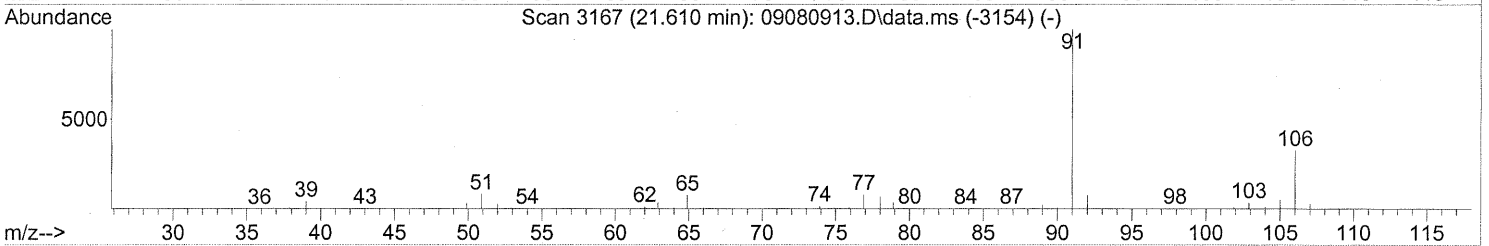
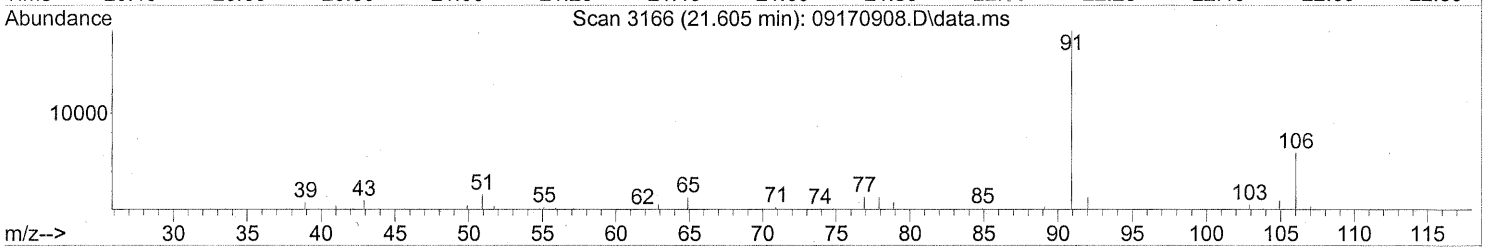
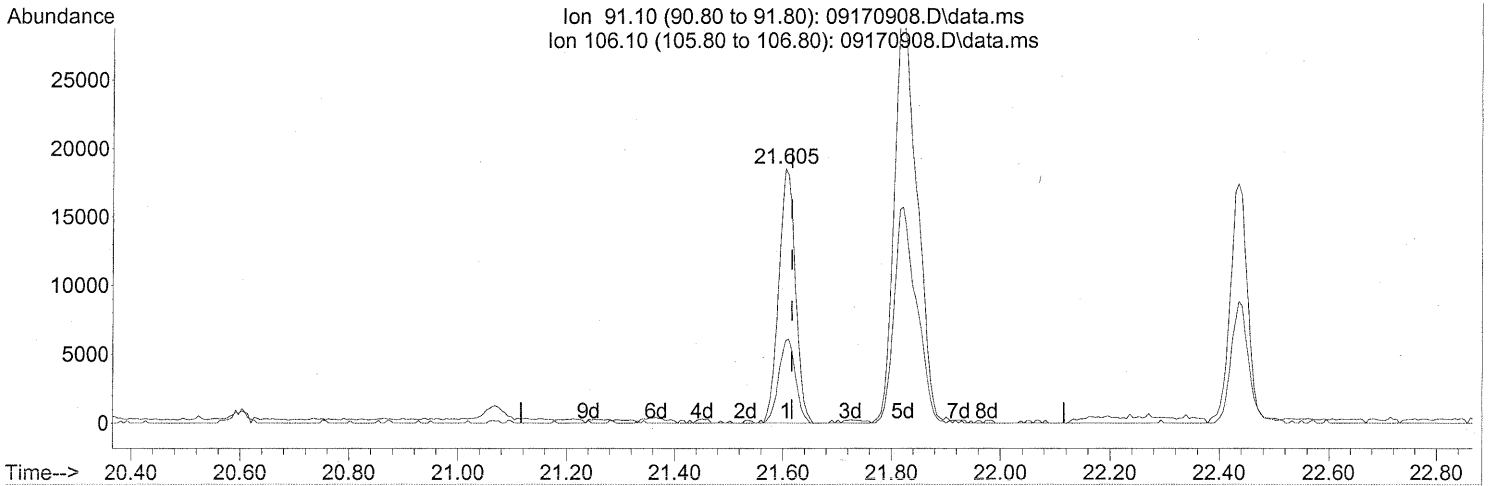
response 32847

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	78.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(66) Ethylbenzene (T)

21.605min (-0.011) 0.66ng

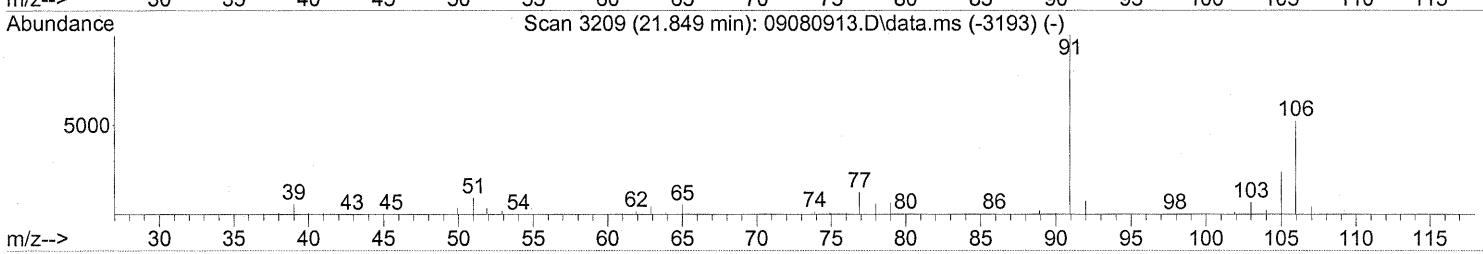
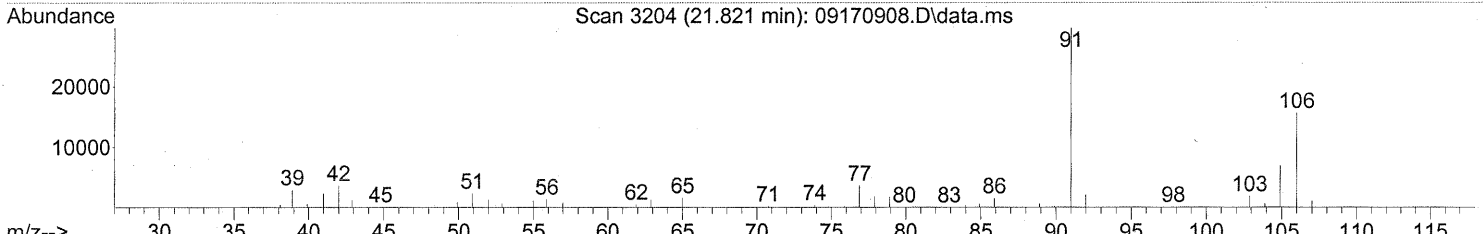
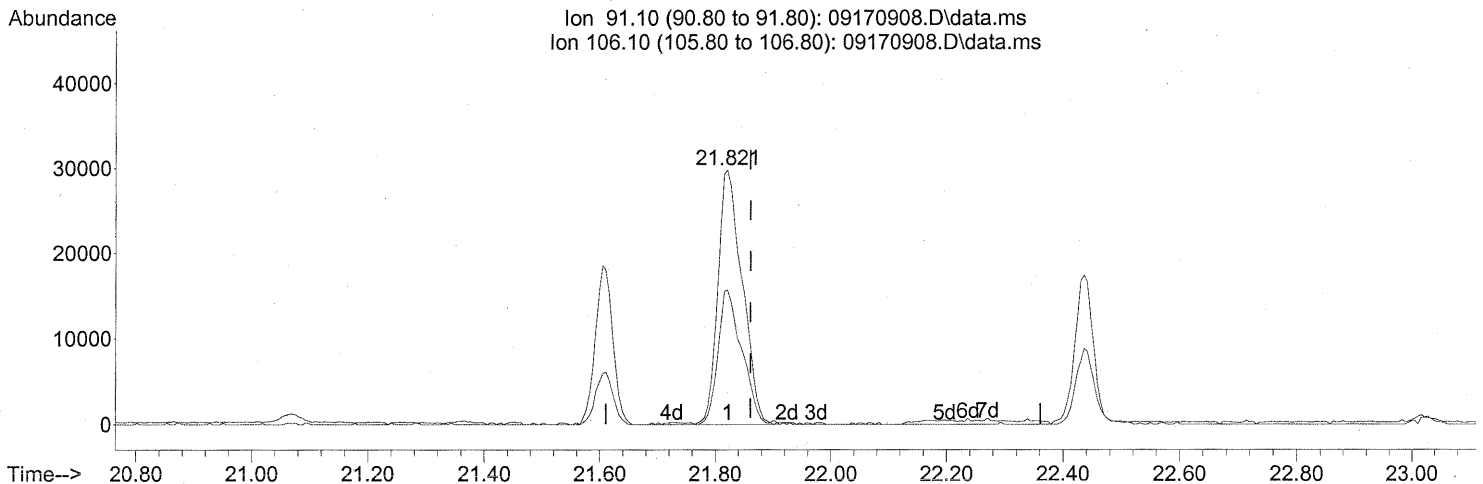
response 39401

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	33.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(67) m- & p-Xylenes (T)

21.821min (-0.040) 1.89ng

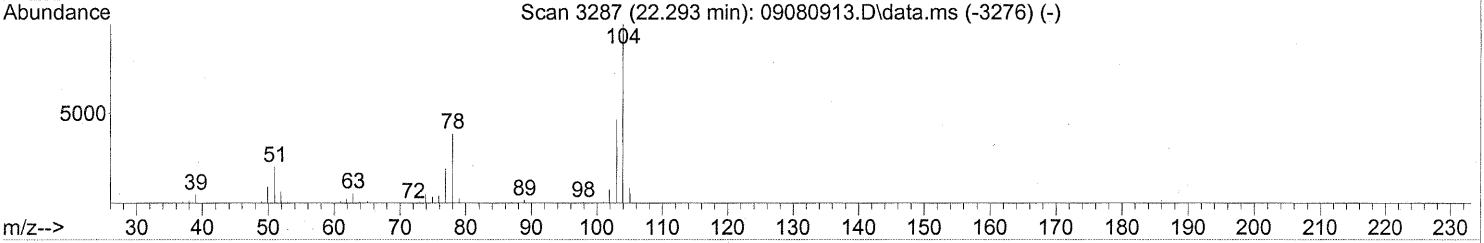
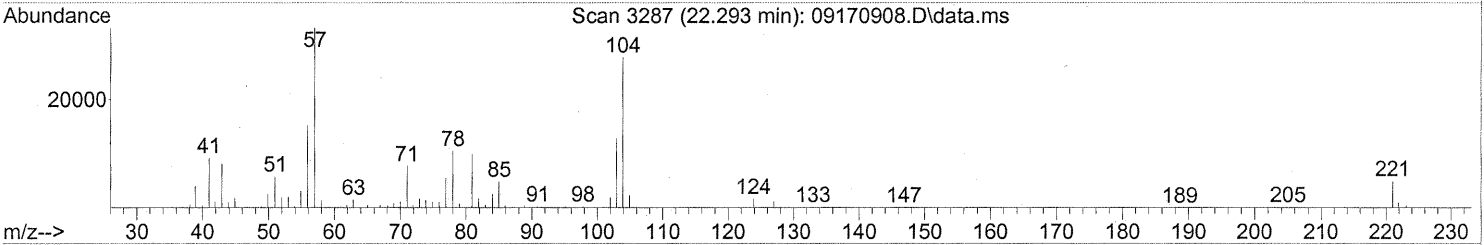
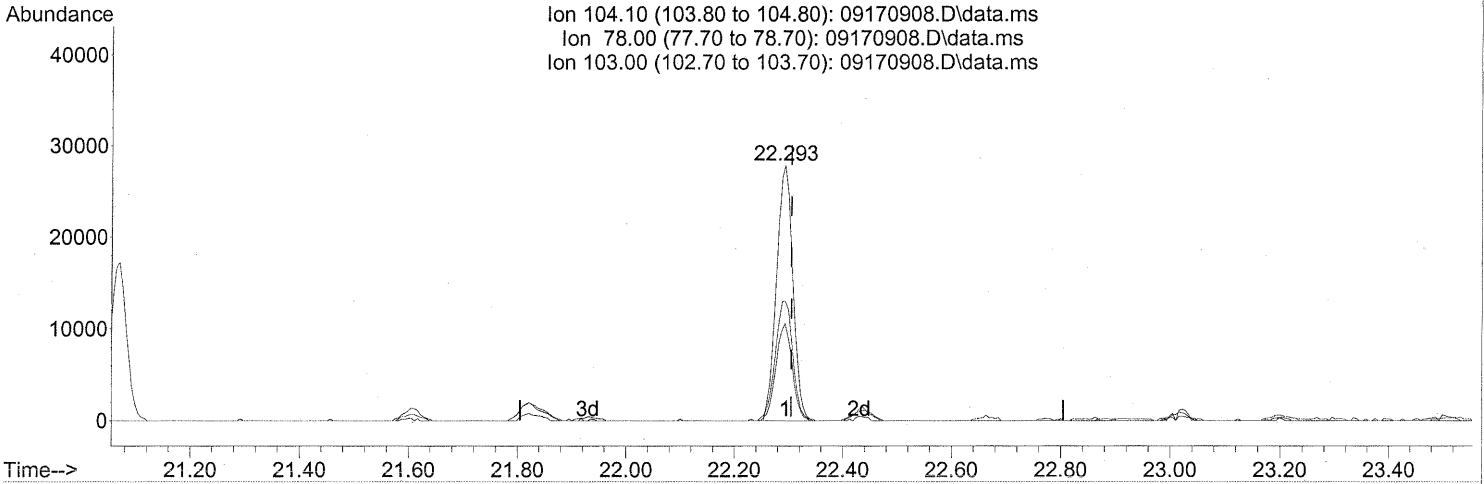
response 87536

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 1.52ng

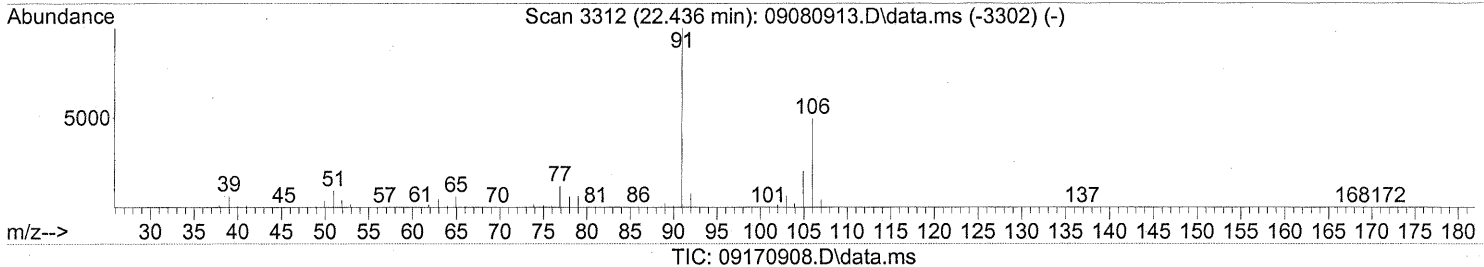
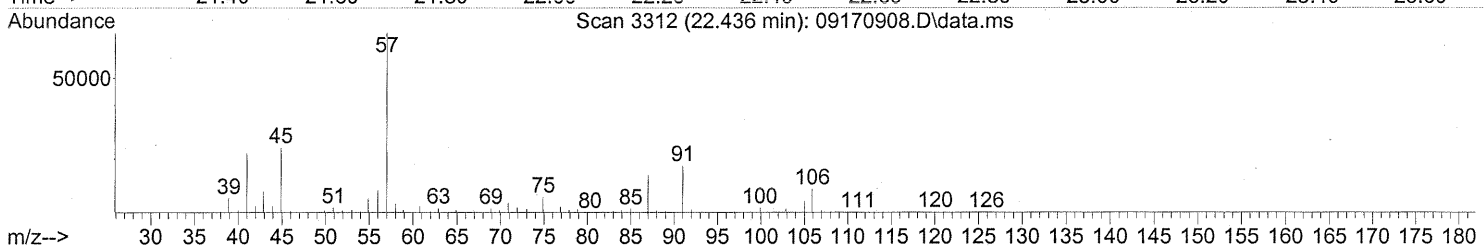
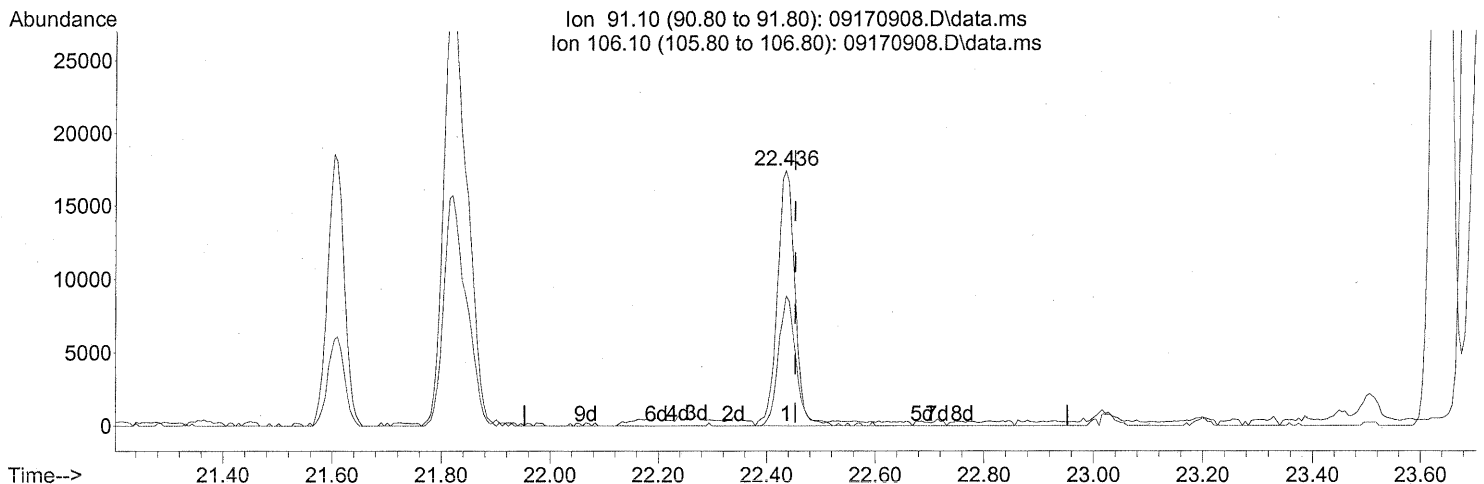
response 58122

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.11
103.00	47.80	50.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.436min (-0.017) 0.88ng
 response 41559

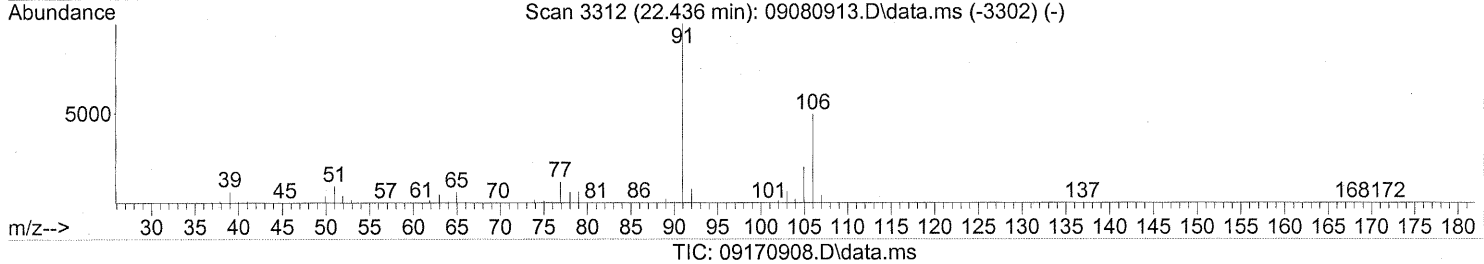
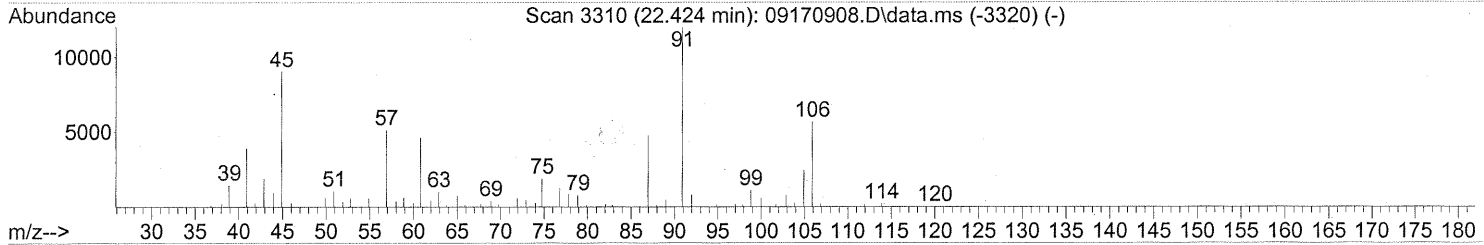
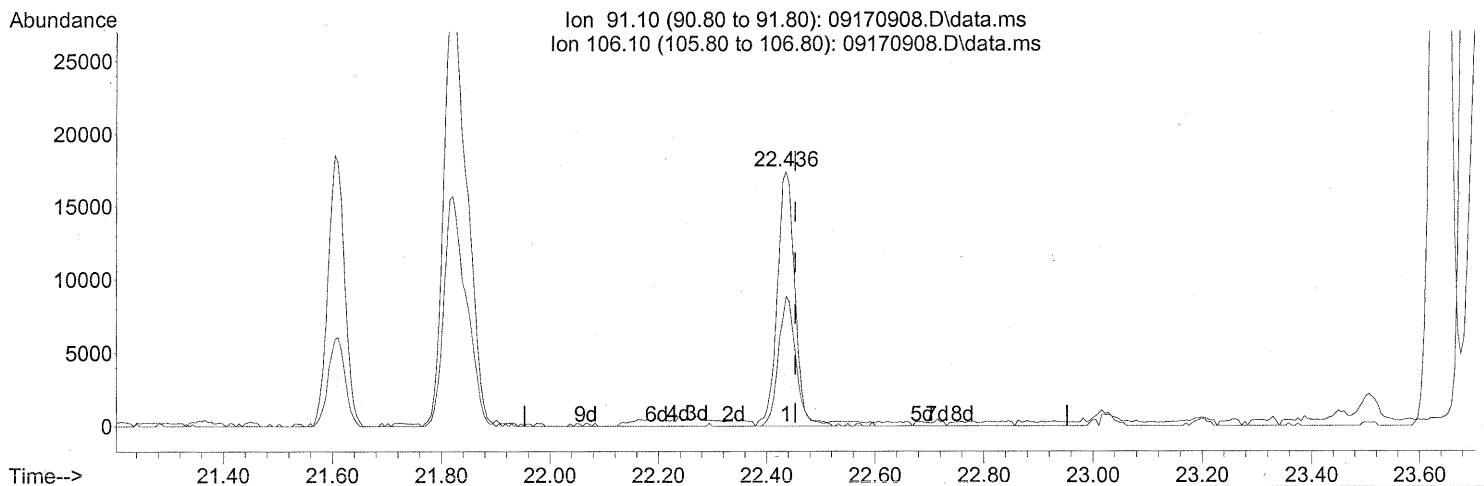
BEFORE SUBTRACTION

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	47.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.436min (-0.017) 0.88ng

AFTER SUBTRACTION

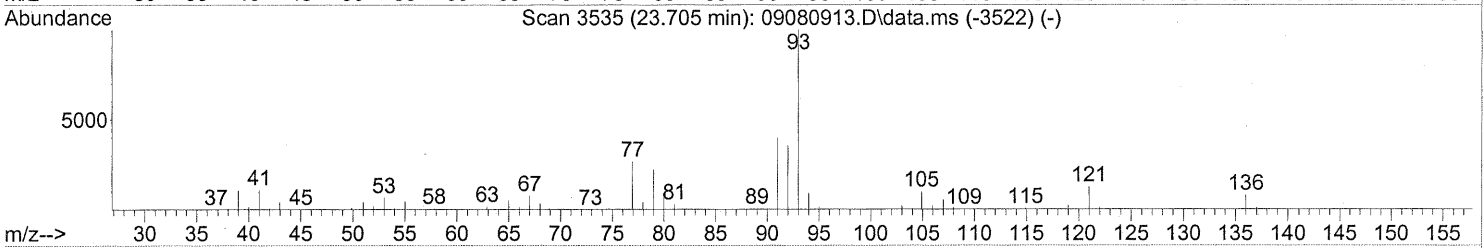
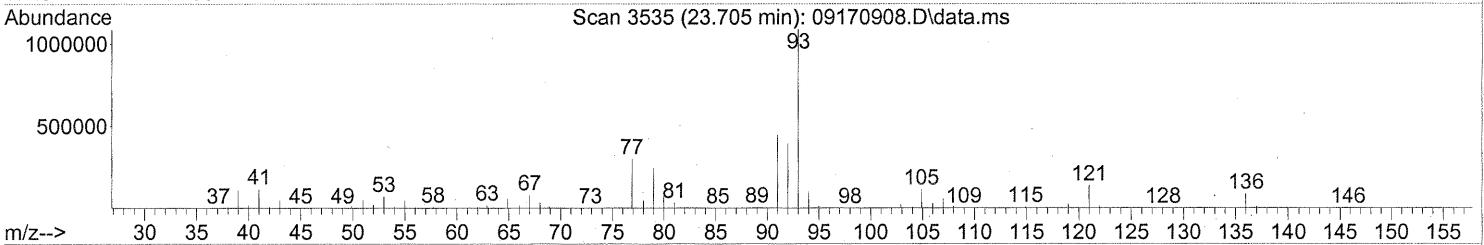
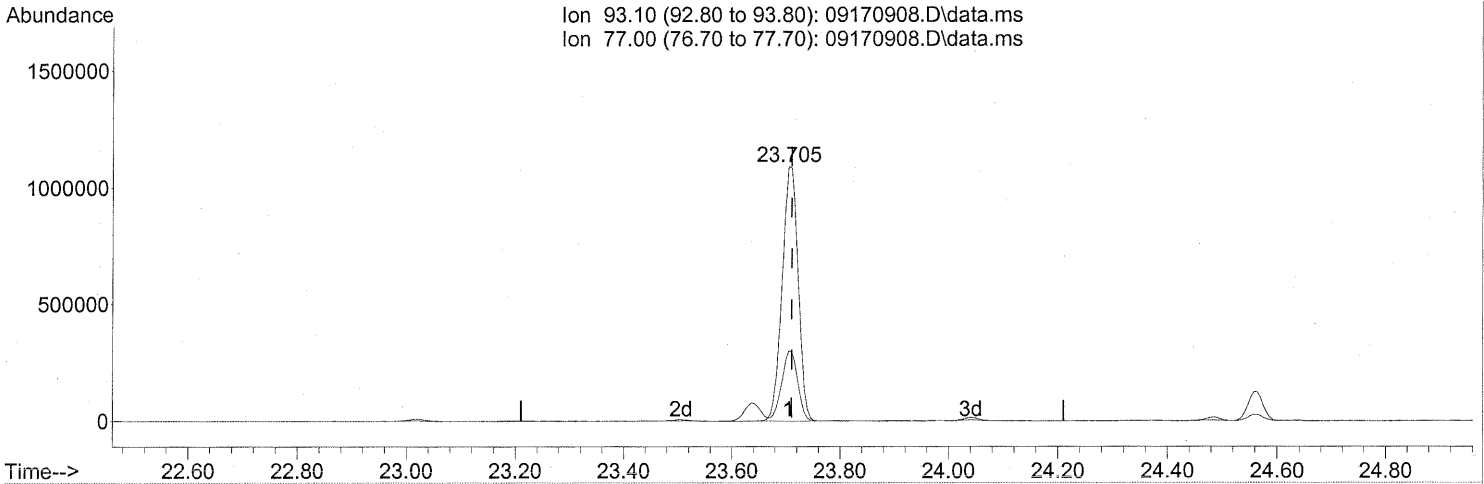
response 41559

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	47.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

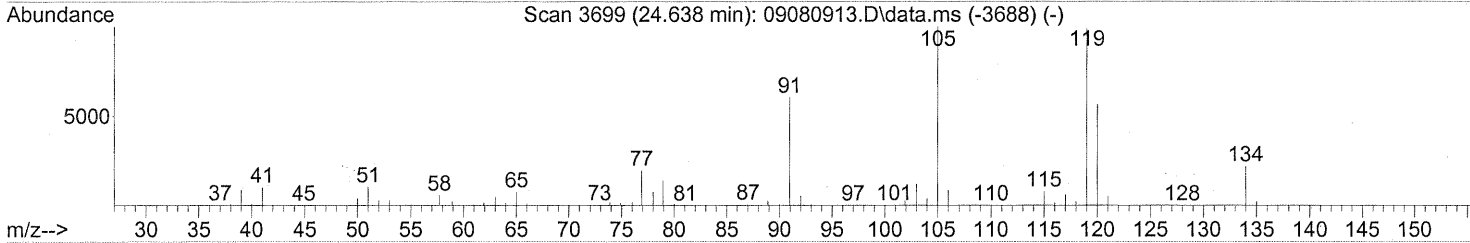
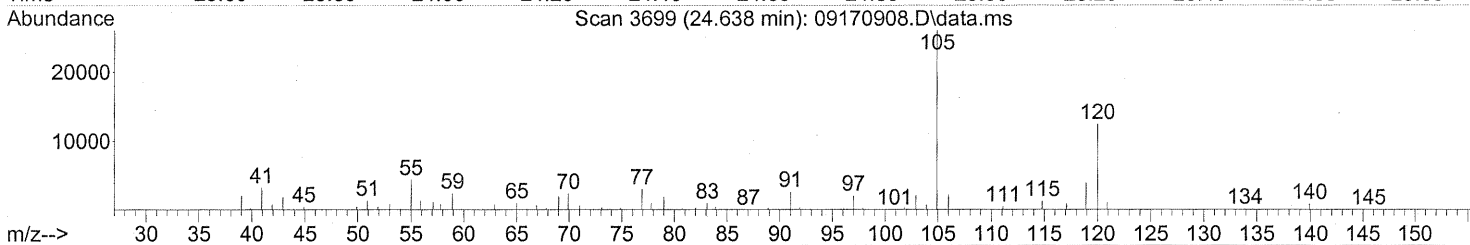
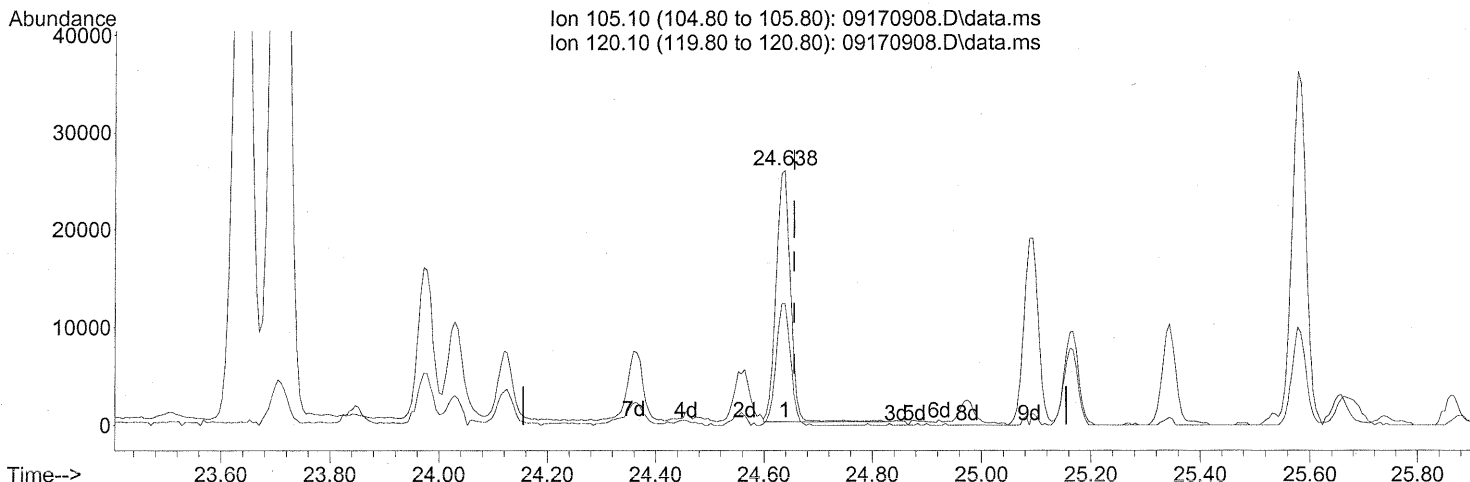
(75) alpha-Pinene (T)
 23.705min (-0.006) 72.82ng
 response 2222292

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 0.88ng

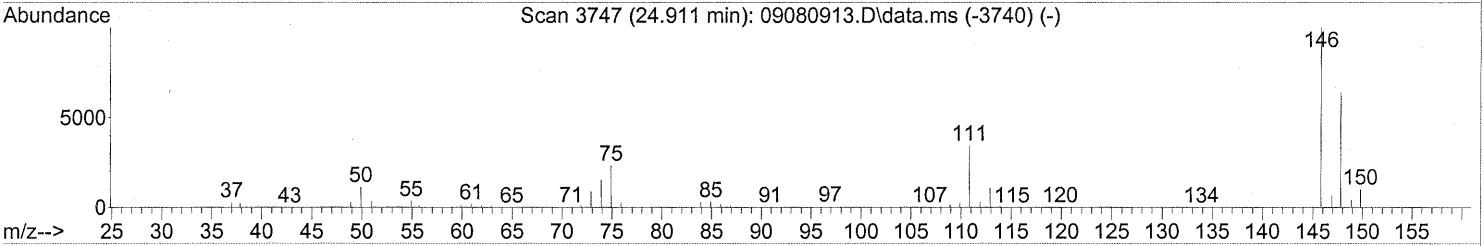
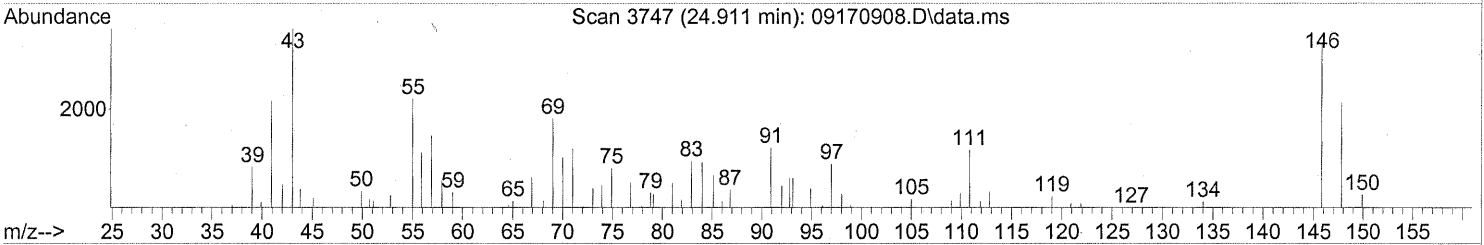
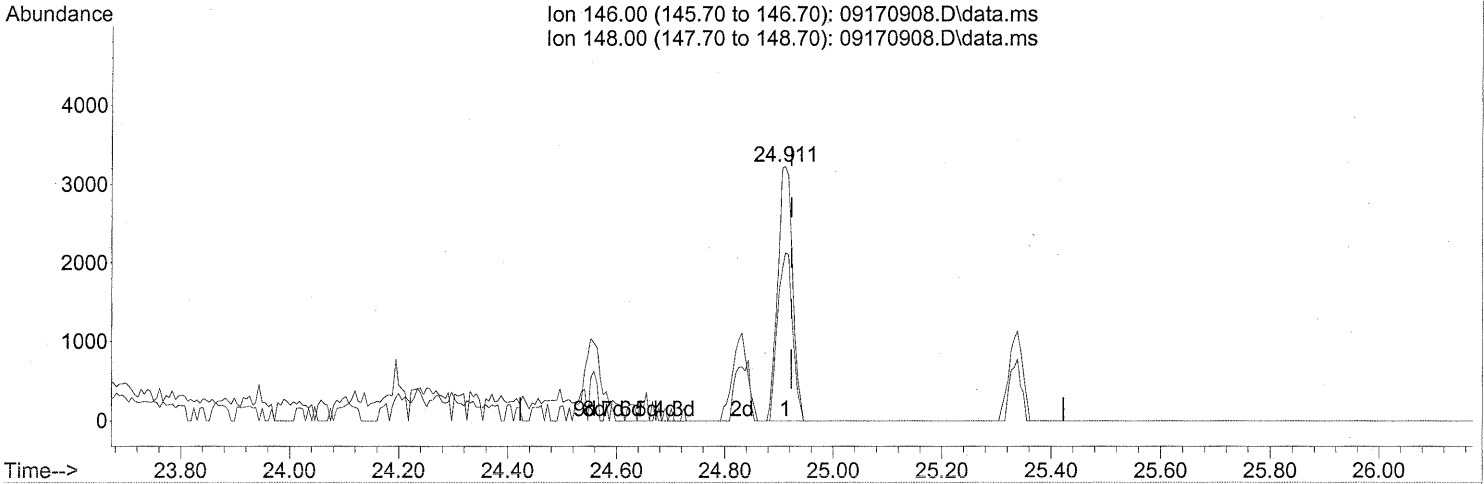
response 47402

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	48.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170908.D\data.ms

(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.19ng

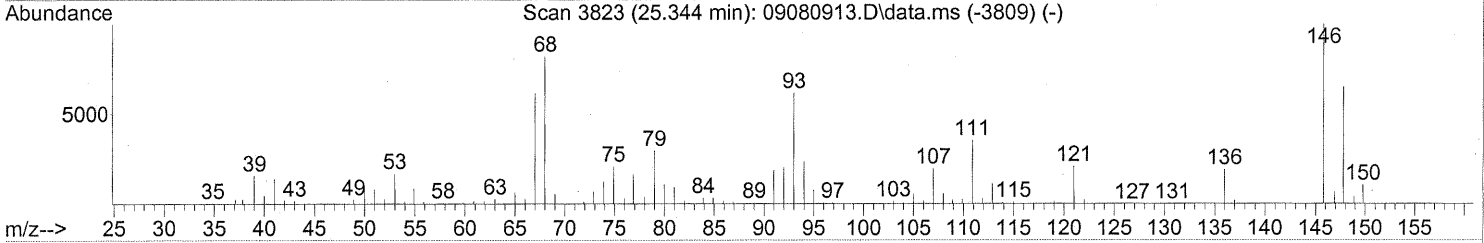
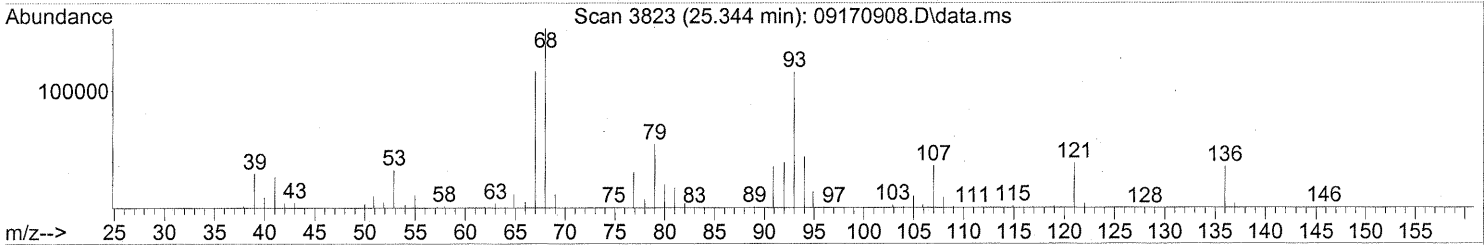
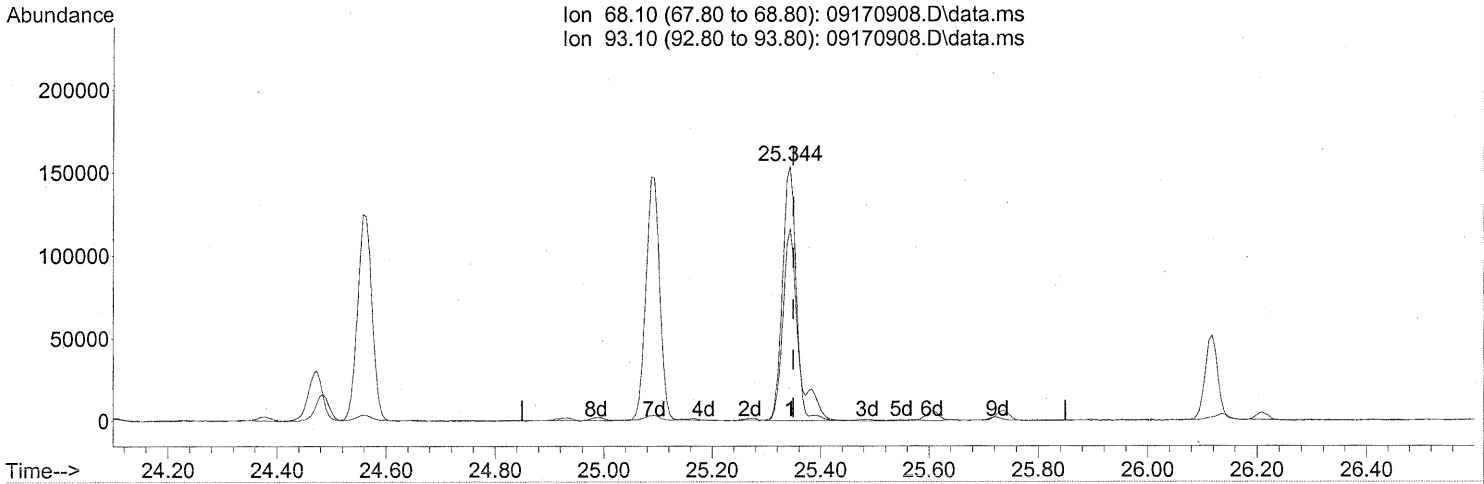
response 6163

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	66.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170908.D
Acq On : 17 Sep 2009 12:05
Operator : LH
Sample : P0903145-013 (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170908.D\data.ms

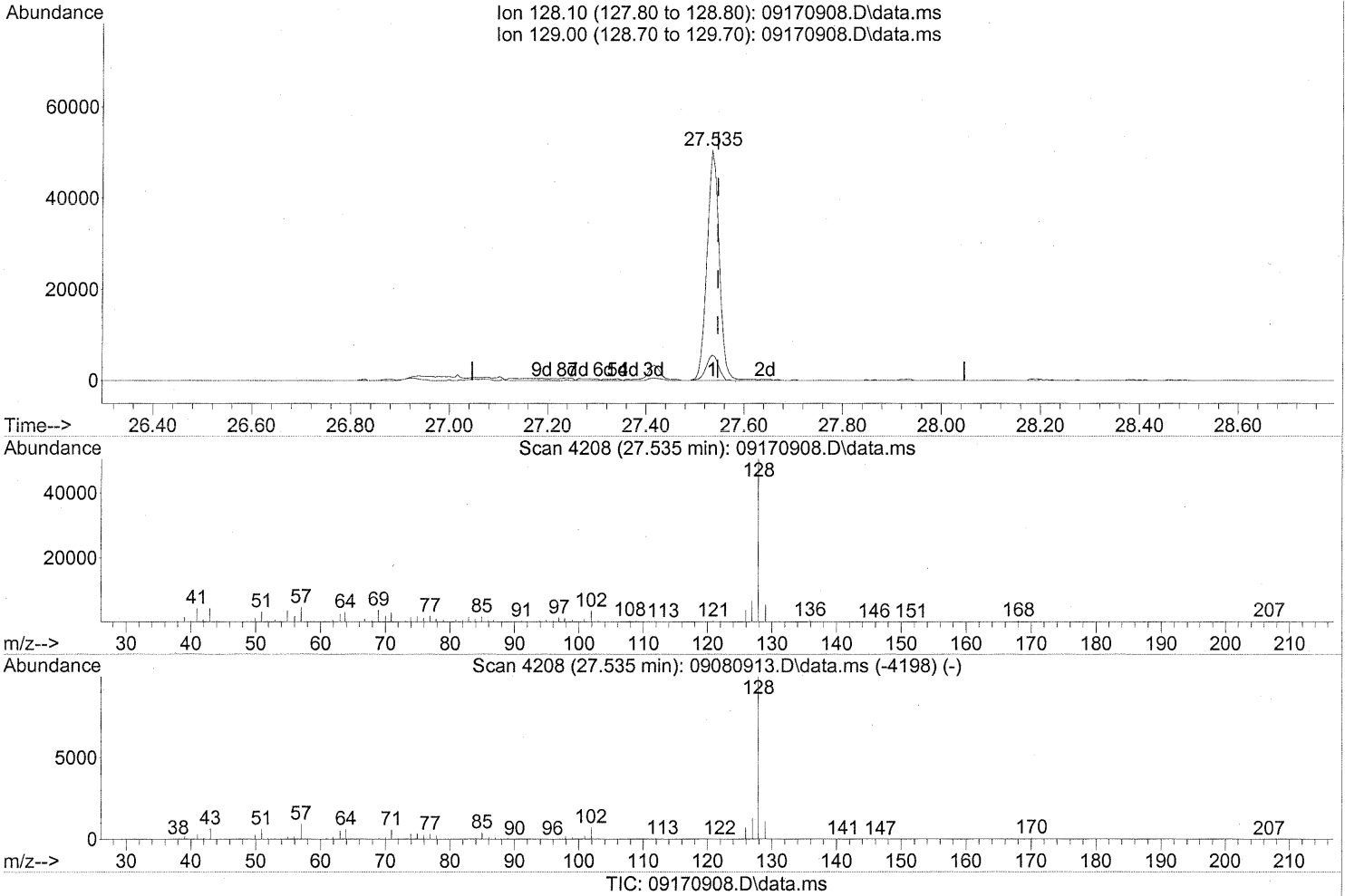
(91) d-Limonene (T)
25.344min (-0.006) 13.82ng
response 267123

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	85.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170908.D
 Acq On : 17 Sep 2009 12:05
 Operator : LH
 Sample : P0903145-013 (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:28:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.535min (-0.011) 1.13ng

response 88464

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.97
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102828
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01101

CAS Project ID: P0903145
CAS Sample ID: P0903145-014

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.8	0.61	1.0	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.61	0.58	0.12	
74-87-3	Chloromethane	ND	0.12	ND	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	280	6.1	150	3.2	
75-05-8	Acetonitrile	100	0.61	61	0.36	
107-02-8	Acrolein	5.2	0.61	2.3	0.26	
67-64-1	Acetone	70	6.1	30	2.5	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.1	0.61	3.7	0.25	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.73	0.12	0.095	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	3.3	0.61	1.1	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: 9/22/09

630

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102828
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01101

CAS Project ID: P0903145
CAS Sample ID: P0903145-014

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.61	0.61	0.13	0.13	
127-18-4	Tetrachloroethene	1.6	0.12	0.23	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.026	
100-41-4	Ethylbenzene	ND	0.61	ND	0.14	
179601-23-1	m,p-Xylenes	1.7	0.61	0.39	0.14	
75-25-2	Bromoform	ND	0.61	ND	0.059	
100-42-5	Styrene	1.2	0.61	0.27	0.14	
95-47-6	o-Xylene	0.72	0.61	0.17	0.14	
111-84-2	n-Nonane	ND	0.61	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.61	ND	0.12	
80-56-8	alpha-Pinene	77	0.61	14	0.11	
103-65-1	n-Propylbenzene	ND	0.61	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.61	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	0.80	0.61	0.16	0.12	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	0.16	0.12	0.027	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	13	0.61	2.4	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.61	ND	0.063	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	ND	0.082	
91-20-3	Naphthalene	1.3	0.61	0.25	0.12	
87-68-3	Hexachlorobutadiene	ND	0.61	ND	0.057	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

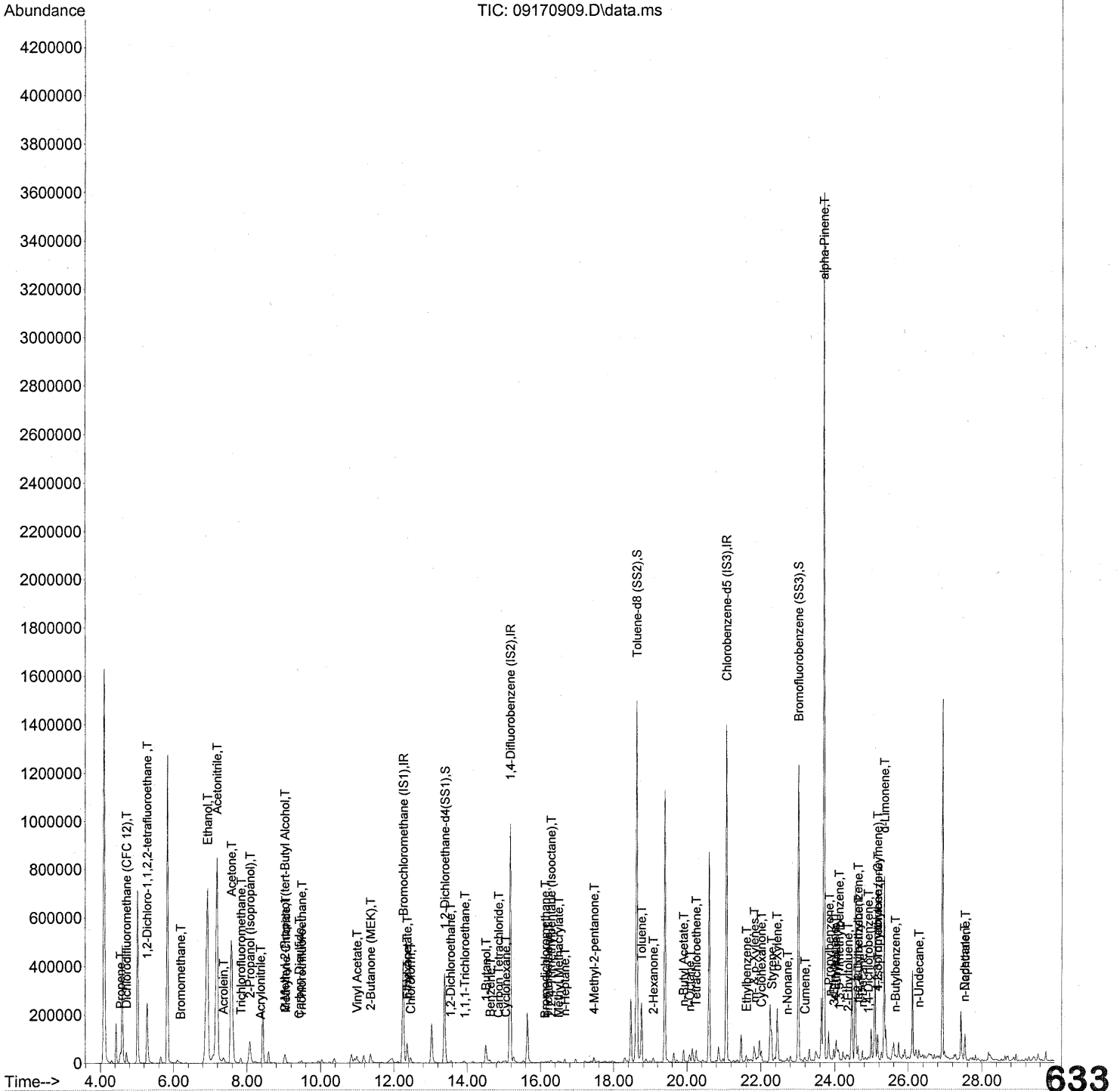
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **632**

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828 ✓ ✓
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UP 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	277221	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.17	114	1332798	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	569112	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	370445	24.248	ng	-0.03
Spiked Amount	25.000			Recovery =	97.00%	✓
57) Toluene-d8 (SS2)	18.63	98	1394901	24.486	ng	-0.01
Spiked Amount	25.000			Recovery =	97.96%	✓
73) Bromofluorobenzene (SS3)	23.02	174	545236	26.709	ng	0.00
Spiked Amount	25.000			Recovery =	106.84%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	16345	1.448	ng	94
3) Dichlorodifluoromethan...	4.72	85	51376	2.381	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1152	0.089	ng	70
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.73	54	449	N.D.		
8) Bromomethane	6.20	94	737	0.066	ng	# 2
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.93	45	1889189m	230.845	ng	
11) Acetonitrile	7.18	41	1751548	84.623	ng	100
12) Acrolein	7.36	56	26340	4.326	ng	98
13) Acetone	7.58	58	477344	57.898	ng	86
14) Trichlorofluoromethane	7.84	101	23266	1.164	ng	98
15) 2-Propanol (Isopropanol)	8.08	45	214454m	7.552	ng	
16) Acrylonitrile	8.37	53	1065	0.067	ng	# 73
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.03	59	12714	0.433	ng	# 1
19) Methylene Chloride	9.05	84	3035	0.241	ng	# 77
20) 3-Chloro-1-propene (Al...	9.23	41	311	N.D.		
21) Trichlorotrifluoroethane	9.49	151	5907	0.600	ng	# 81
22) Carbon Disulfide	9.42	76	12147	0.279	ng	95
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.85	73	771	N.D.		
26) Vinyl Acetate	11.00	86	12339	4.970	ng	# 1
27) 2-Butanone (MEK)	11.36	72	21412	2.704	ng	92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.35	87	107	N.D.		
30) Ethyl Acetate	12.36	61	20272	5.042	ng	96
31) n-Hexane	12.36	57	4940	0.310	ng	96

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	26466	1.355	ng	98
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	7830	0.581	ng	100
38) 1,1,1-Trichloroethane	13.94	97	923	0.055	ng	# 49
39) Isopropyl Acetate	14.50	61	202	N.D.		
40) 1-Butanol	14.51	56	75484	6.278	ng	82
41) Benzene	14.63	78	15441	0.325	ng	99
42) Carbon Tetrachloride	14.86	117	7177	0.502	ng	97
43) Cyclohexane	15.05	84	5188	0.299	ng	94
44) tert-Amyl Methyl Ether	15.54	73	60	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.13	83	4123	0.280	ng	97
47) Trichloroethene	16.20	130	1459	0.102	ng	98
48) 1,4-Dioxane	16.19	88	109	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	7919	0.165	ng	71
50) Methyl Methacrylate	16.49	100	1487	0.272	ng	# 60
51) n-Heptane	16.66	71	4550	0.375	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	7944	0.750	ng	92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	209594	3.941	ng	99
59) 2-Hexanone	19.08	43	17465	0.681	ng	98
60) Dibromochloromethane	19.31	129	633	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	45467	1.549	ng	93
63) n-Octane	20.07	57	5044	0.505	ng	95
64) Tetrachloroethene	20.25	166	21210	1.292	ng	99
65) Chlorobenzene	21.12	112	905	N.D.		
66) Ethylbenzene	21.61	91	29042	0.497	ng	97
67) m- & p-Xylenes	21.82	91	64245	1.408	ng	97
68) Bromoform	21.92	173	256	N.D.		
69) Styrene	22.29	104	36095	0.963	ng	93
70) o-Xylene	22.44	91	27841	0.597	ng	96
71) n-Nonane	22.71	43	6334	0.280	ng	92
72) 1,1,2,2-Tetrachloroethane	22.41	83	459	N.D.		
74) Cumene	23.20	105	6013	0.094	ng	90
75) alpha-Pinene	23.70	93	1906662	63.562	ng	96
76) n-Propylbenzene	23.85	91	11166	0.150	ng	# 34
77) 3-Ethyltoluene	23.98	105	24050	0.399	ng	99
78) 4-Ethyltoluene	24.03	105	14123	0.237	ng	99
79) 1,3,5-Trimethylbenzene	24.12	105	9241	0.186	ng	98

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

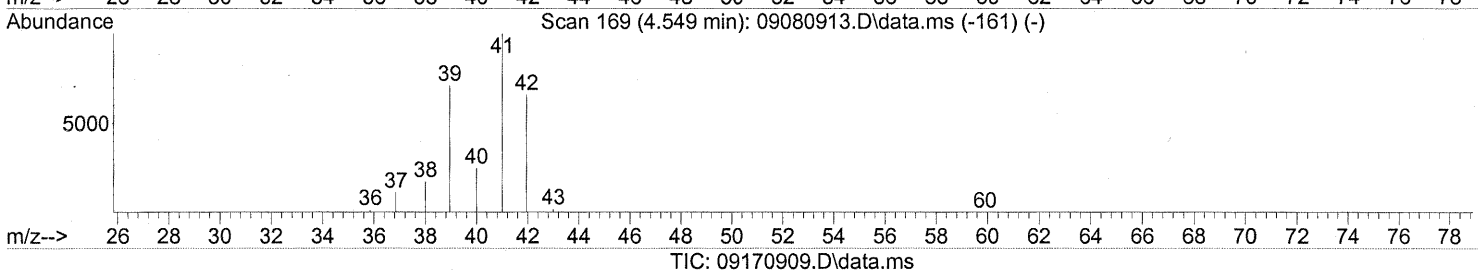
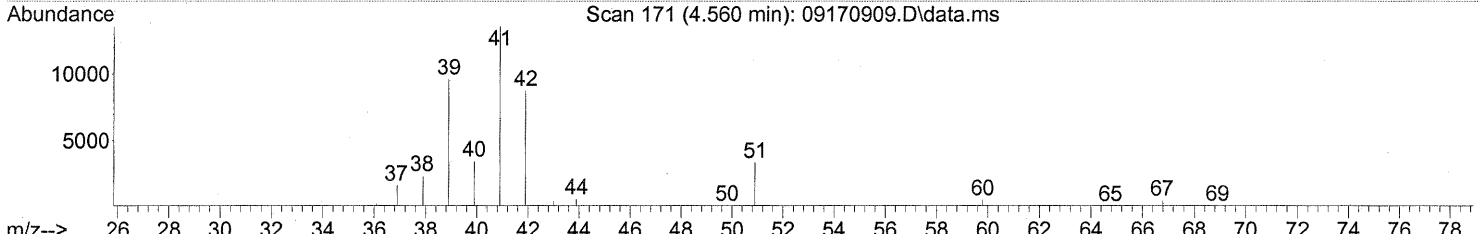
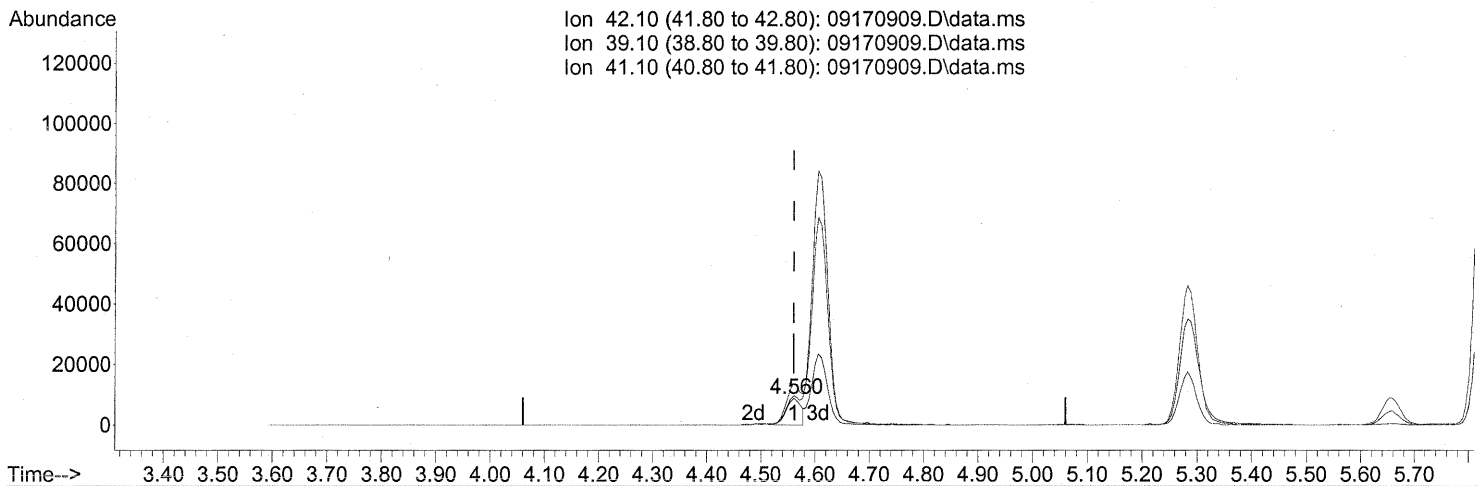
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	1319	N.D.		
81) 2-Ethyltoluene	24.36	105	10686	0.169 ng		85
82) 1,2,4-Trimethylbenzene	24.63	105	34855	0.659 ng		92
83) n-Decane	24.75	57	15232	0.550 ng		88
84) Benzyl Chloride	24.80	91	809	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	482	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	4370	0.136 ng		97
87) sec-Butylbenzene	24.97	105	2903	N.D.		
88) 4-Isopropyltoluene (p-...	25.16	119	60315	0.899 ng		91
89) 1,2,3-Trimethylbenzene	25.17	105	12625	0.244 ng	#	53
90) 1,2-Dichlorobenzene	25.34	146	701	N.D.		
91) d-Limonene	25.34	68	206395	10.866 ng		75
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.28	57	11487	0.360 ng		82
94) 1,2,4-Trichlorobenzene	27.39	180	648	N.D.		
95) Naphthalene	27.53	128	84600	1.101 ng		100
96) n-Dodecane	27.52	57	11884	0.378 ng		90
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.01	55	25492	1.296 ng	#	90
99) tert-Butylbenzene	24.64	119	5290	0.102 ng	#	55
100) n-Butylbenzene	25.65	91	9907	0.187 ng	#	42

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(2) Propene (T)

4.560min (0.000) 1.45ng

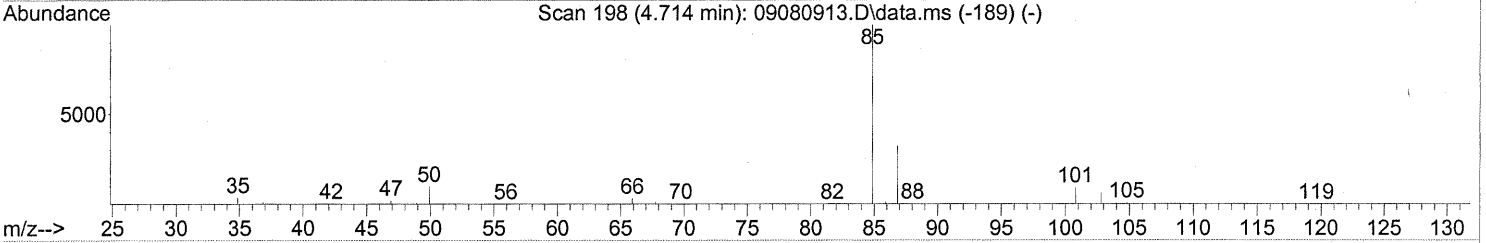
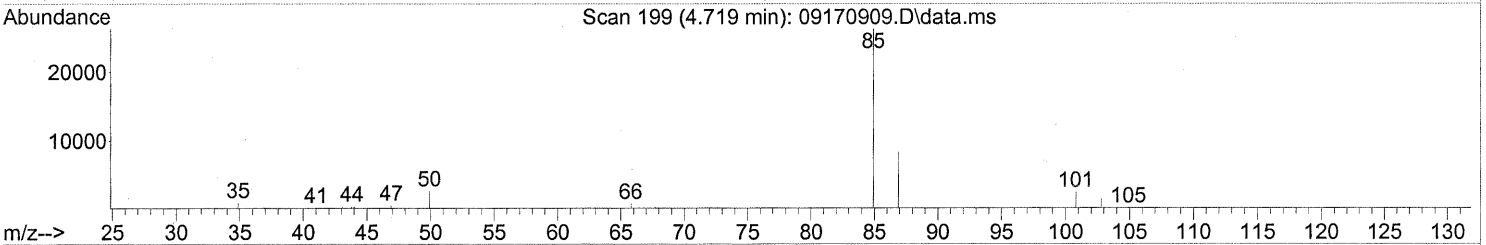
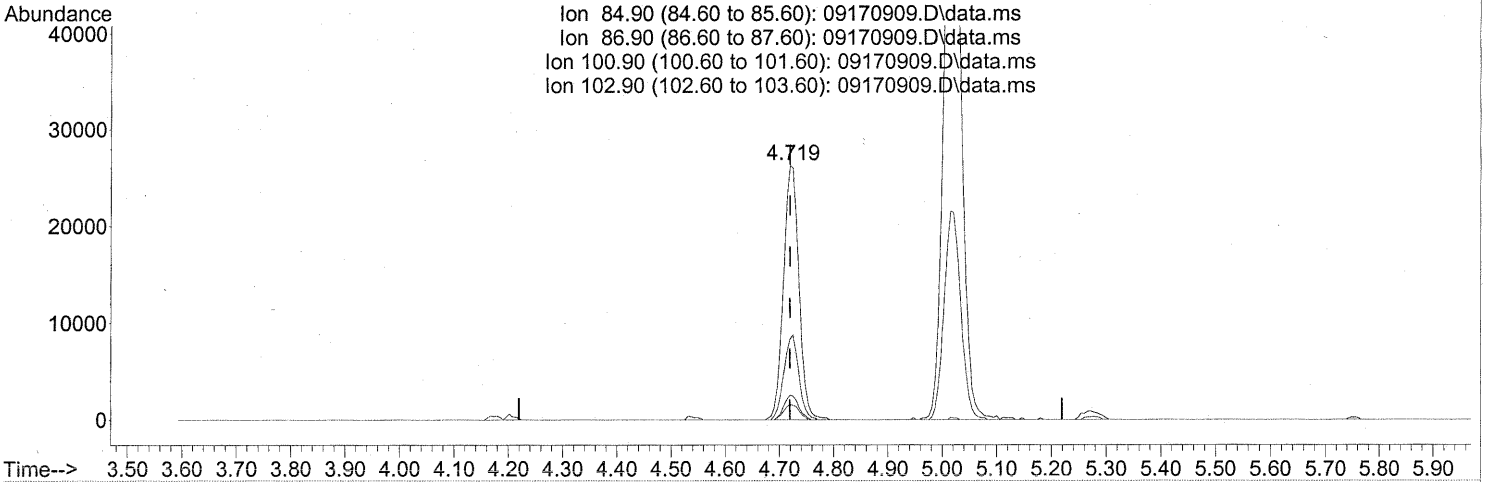
response 16345

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	104.69
41.10	152.10	160.27
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 17 Sep 2009 12:43
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TIC: 09170909.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (0.000) 2.38ng

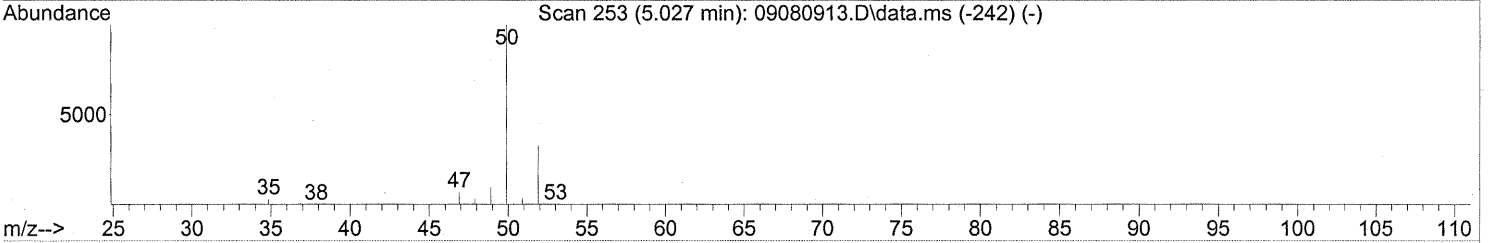
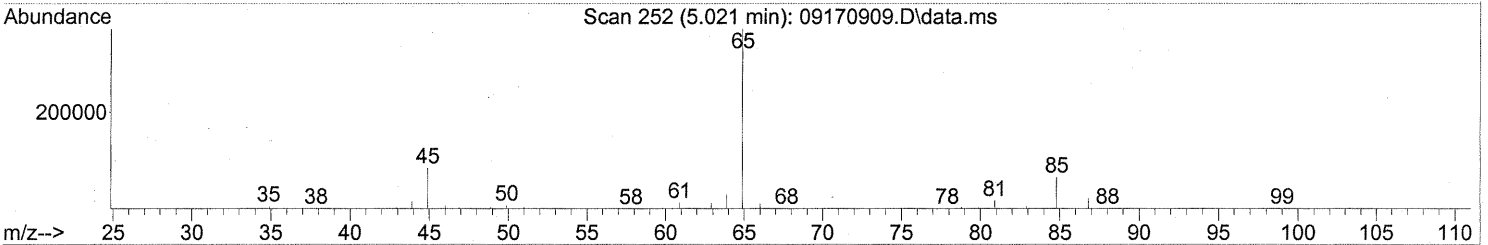
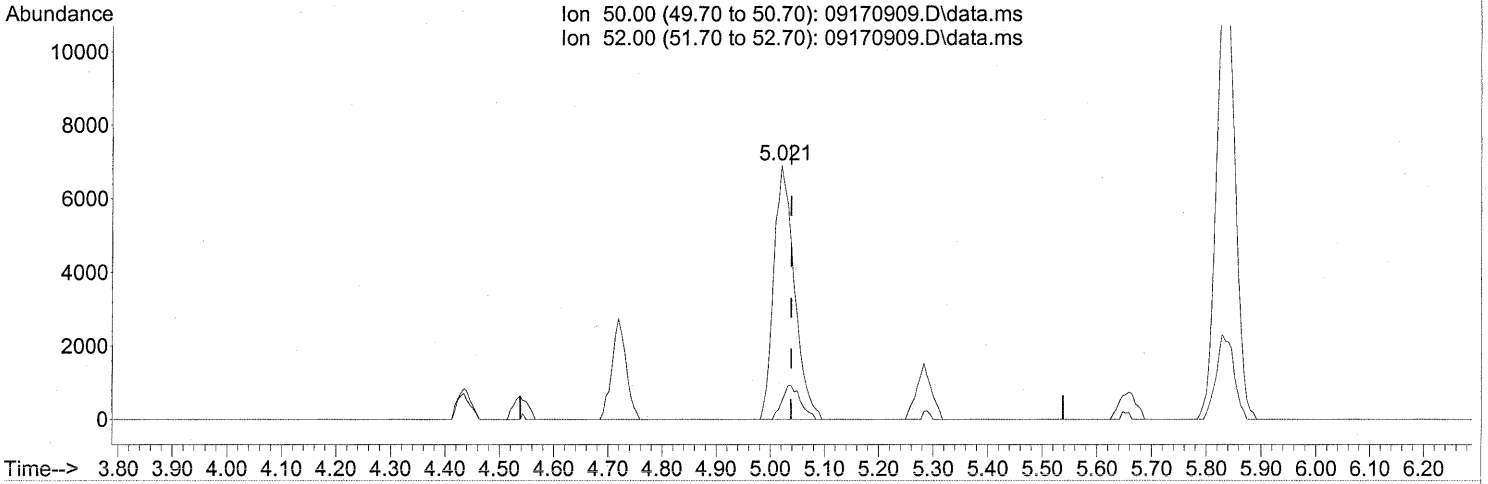
response 51376

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.23
100.90	8.60	9.20
102.90	5.90	5.94

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TIC: 09170909.D\data.ms

(4) Chloromethane (T)

5.021min (-0.017) 1.03ng

response 18234

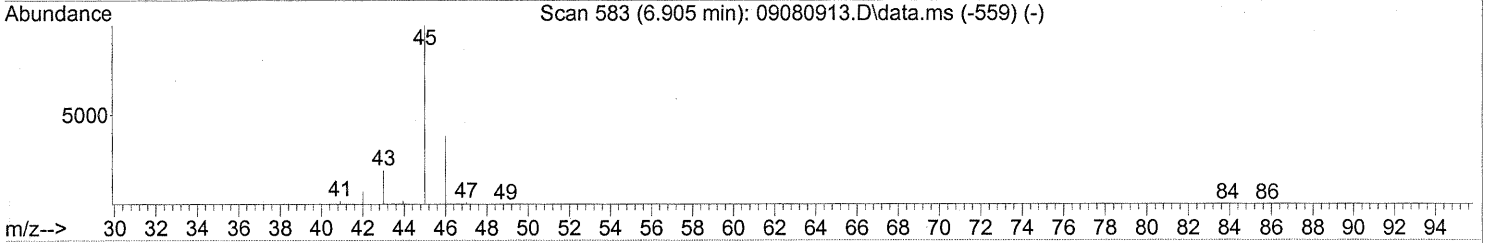
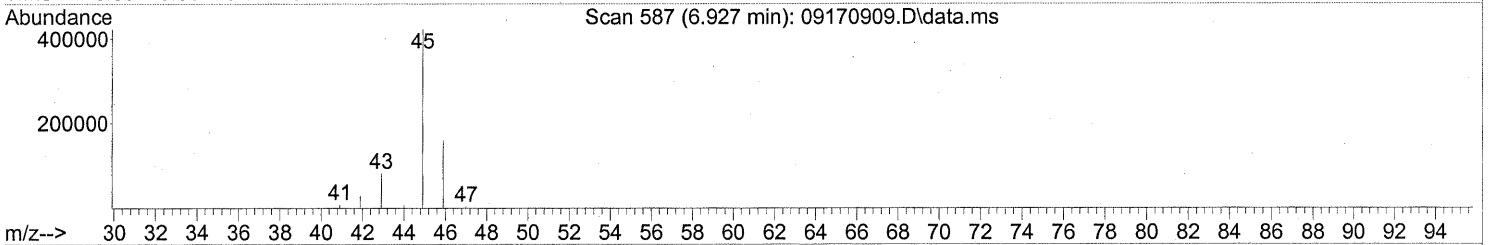
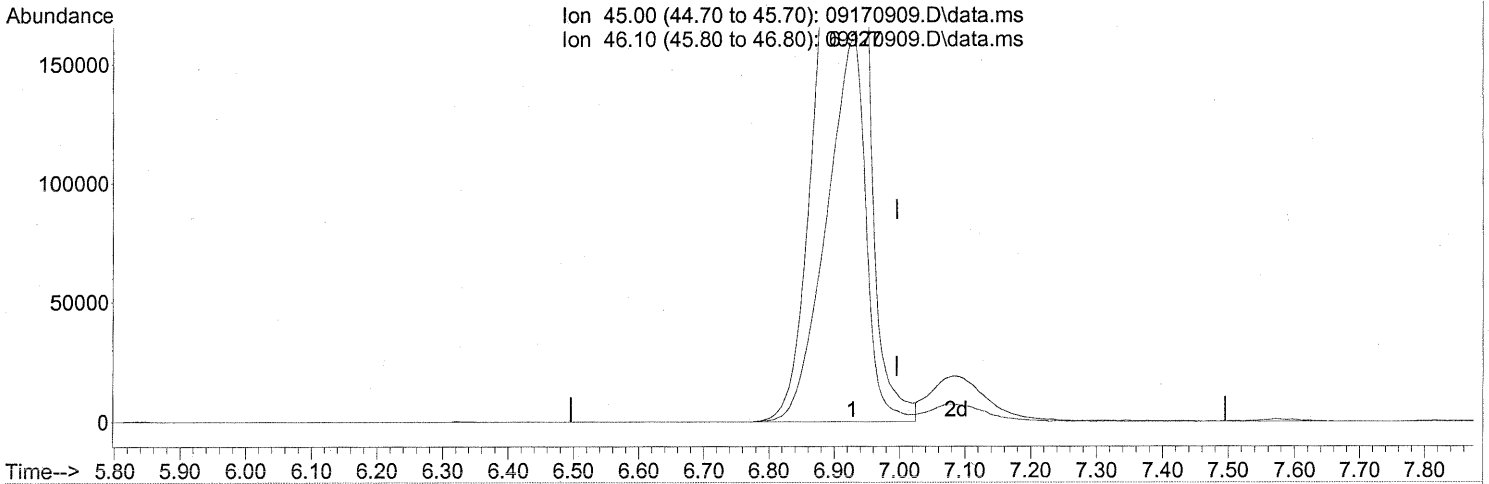
Ion	Exp%	Act%
50.00	100	100
52.00	32.20	12.03#
0.00	0.00	0.00
0.00	0.00	0.00

FP in 9/21/09
Qm 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170909.D
Acq On : 17 Sep 2009 12:43
Operator : LH
Sample : P0903145-014 (1000mL)
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QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170909.D\data.ms

(10) Ethanol (T)

6.927min (-0.068) 216.92ng

response 1775215

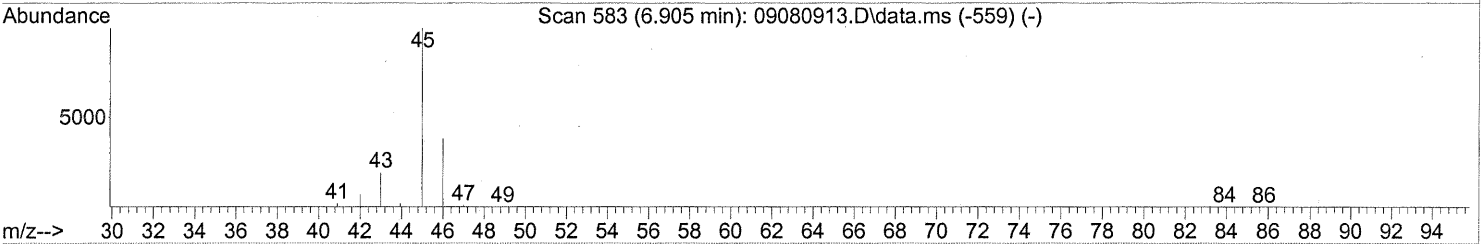
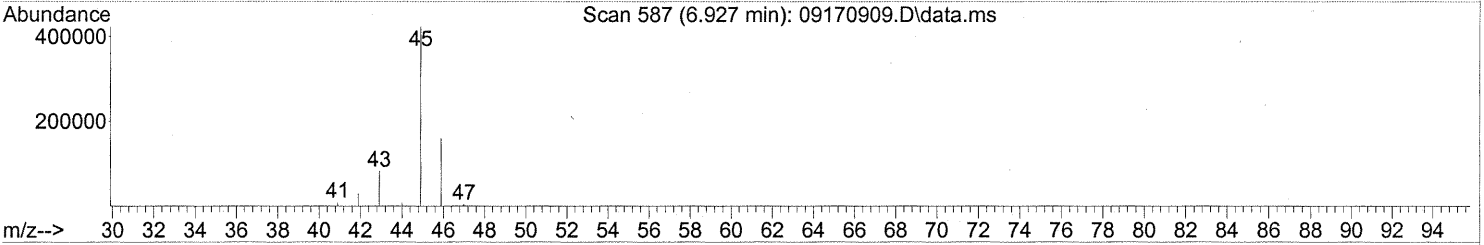
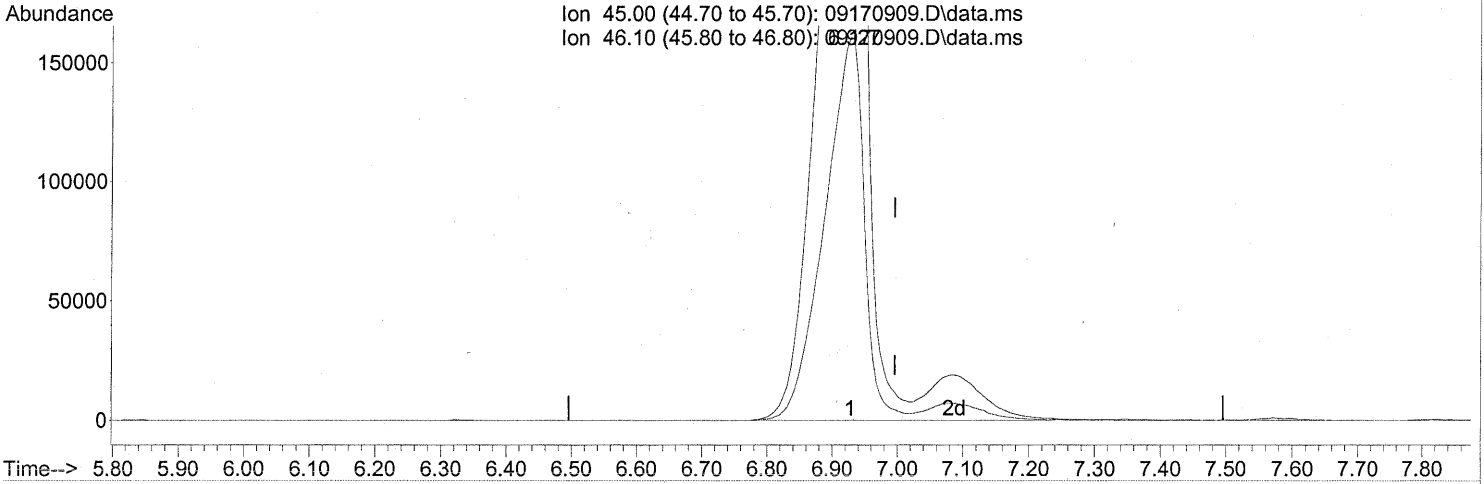
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.08
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
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 Response via : Initial Calibration



(10) Ethanol (T)

6.927min (-0.068) 230.85ng m

response 1889189

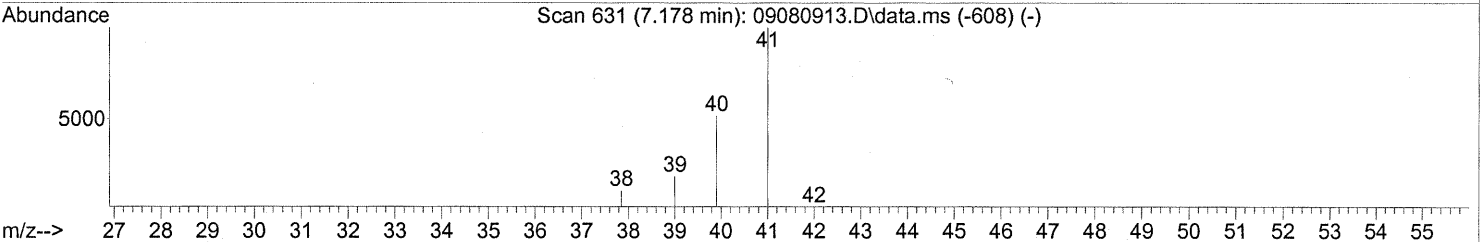
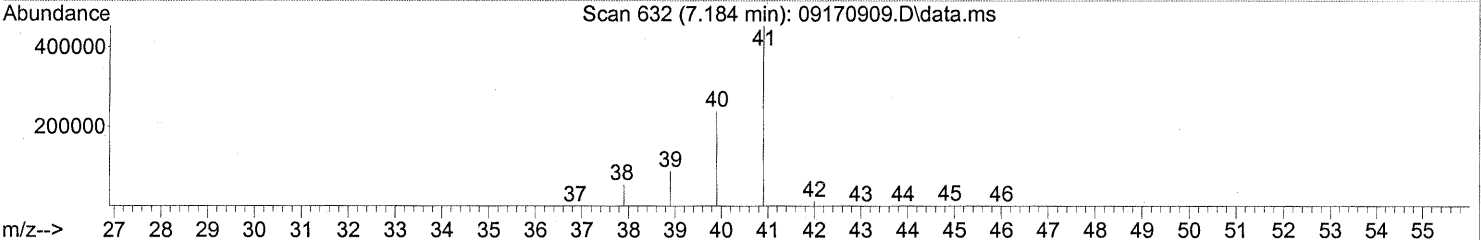
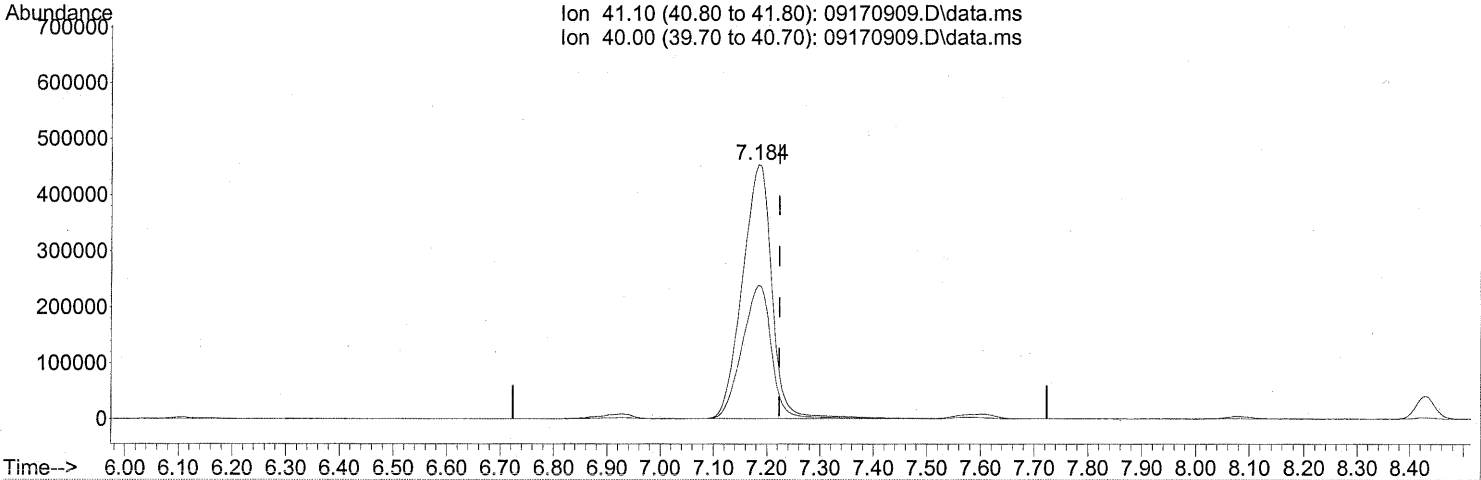
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.79
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
UH 9/21/09
Com 9/21/09

Quantitation Report (Qedit)

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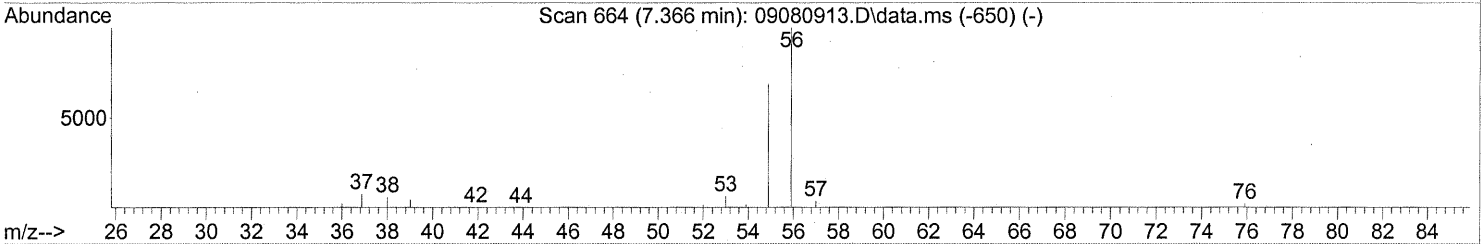
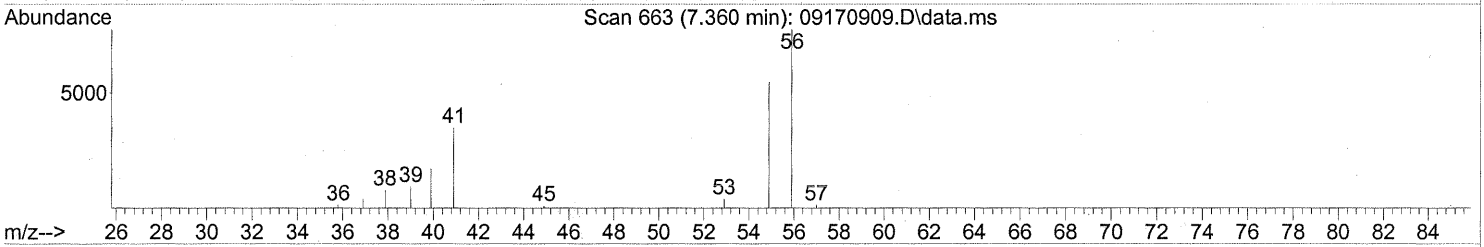
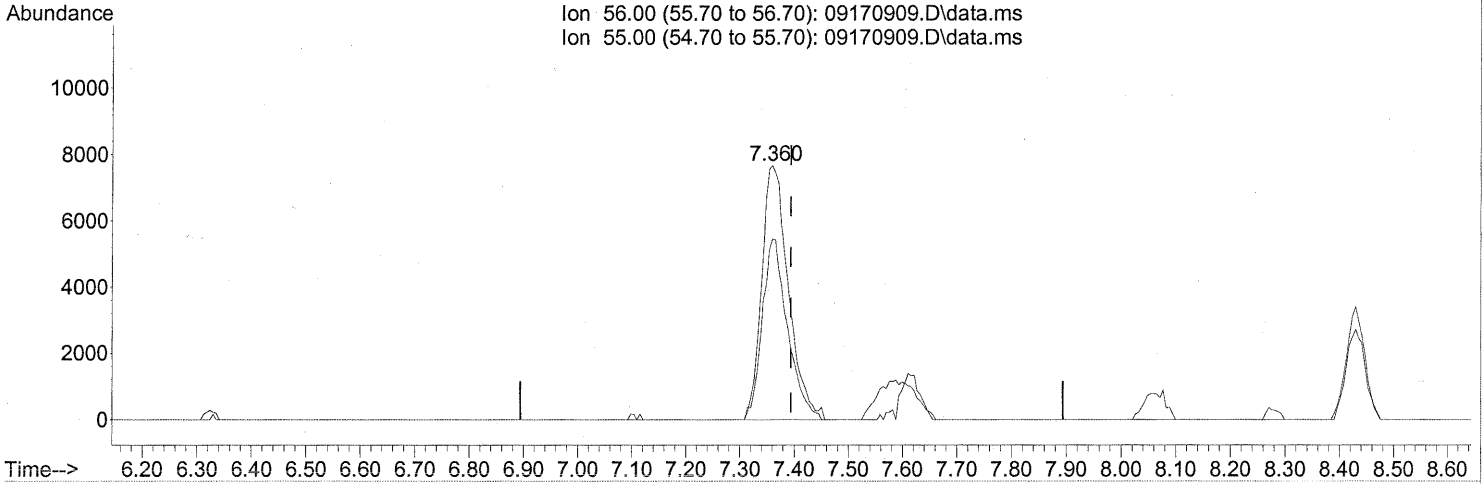
(11) Acetonitrile (T)
 7.184min (-0.040) 84.62ng
 response 1751548

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170909.D
Acq On : 17 Sep 2009 12:43
Operator : LH
Sample : P0903145-014 (1000mL)
Misc : Environmental H & E 102828
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170909.D\data.ms

(12) Acrolein (T)

7.360min (-0.034) 4.33ng

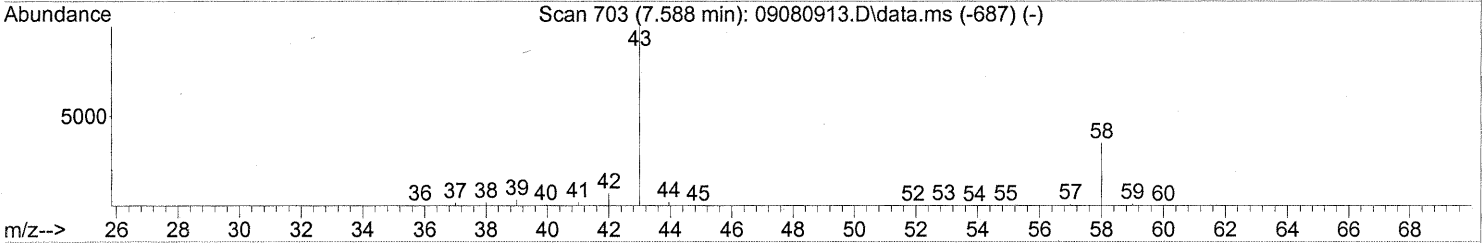
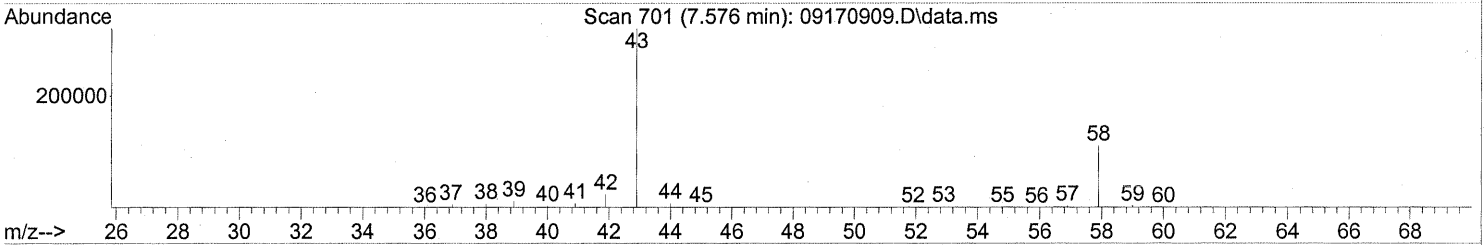
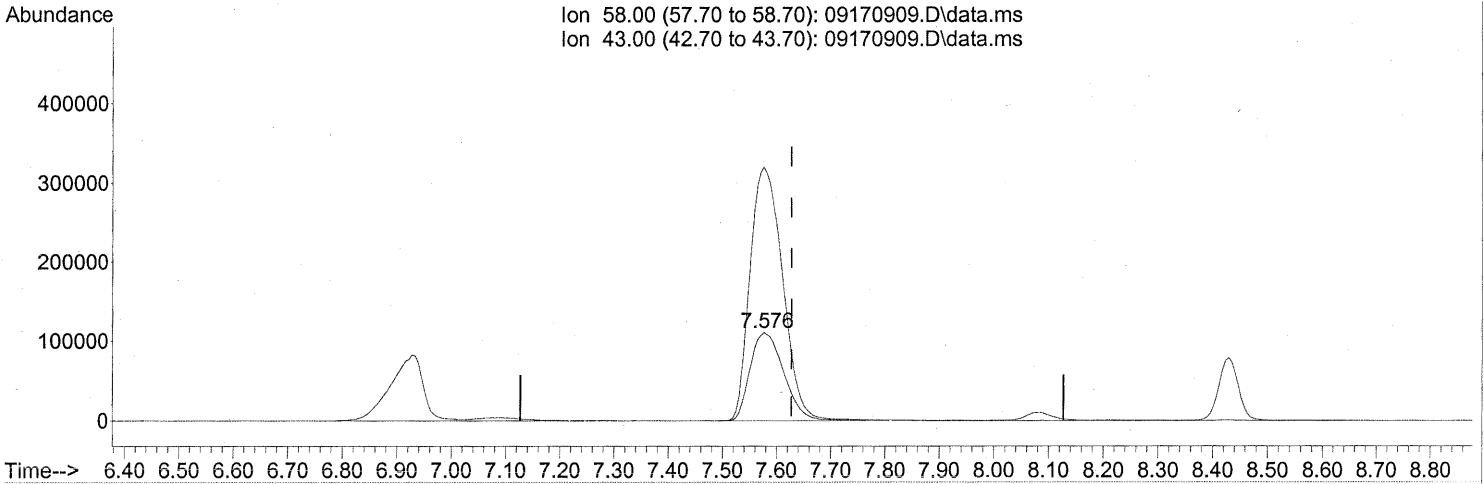
response 26340

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	67.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

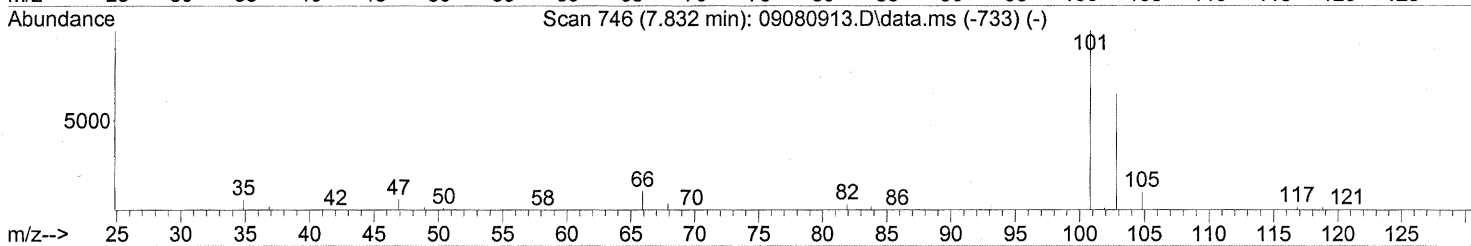
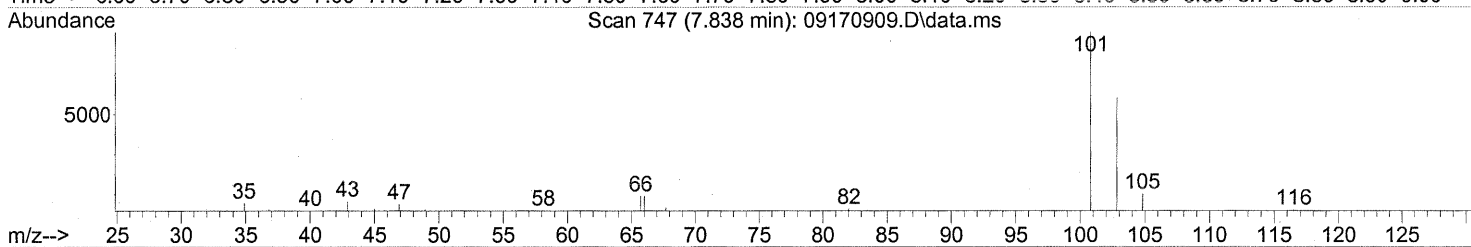
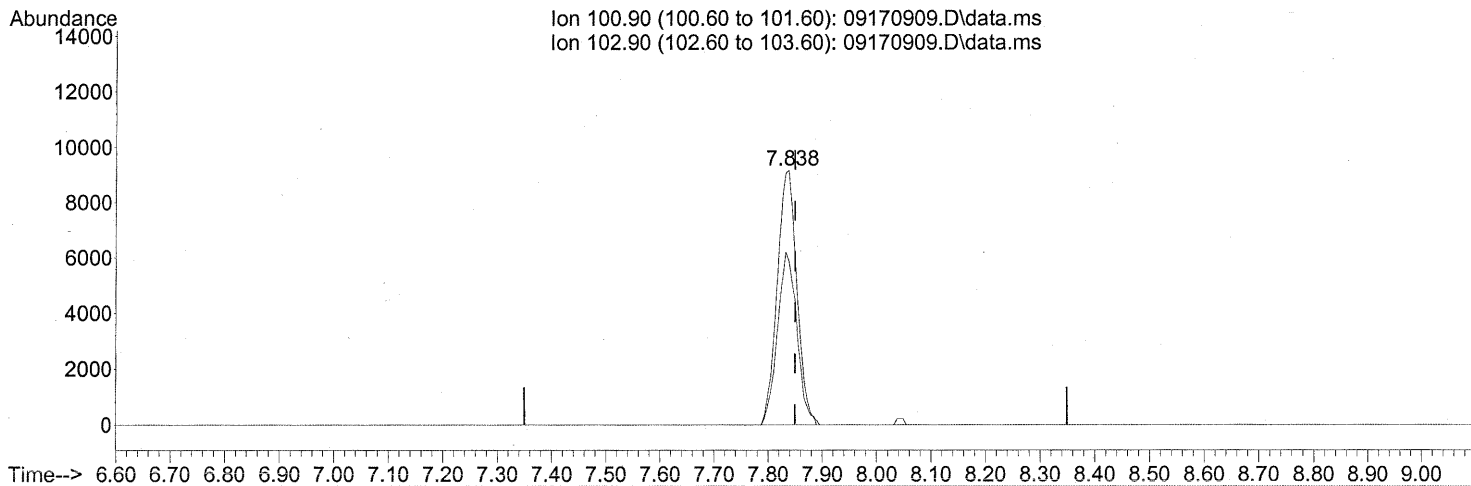
(13) Acetone (T)
 7.576min (-0.051) 57.90ng
 response 477344

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	281.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.16ng

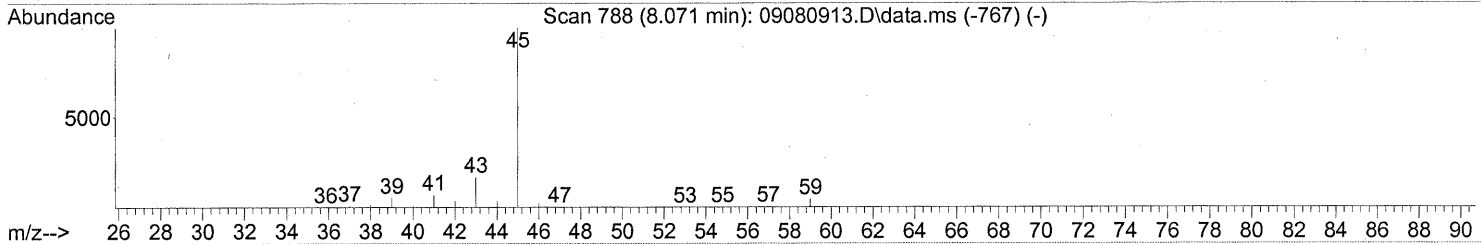
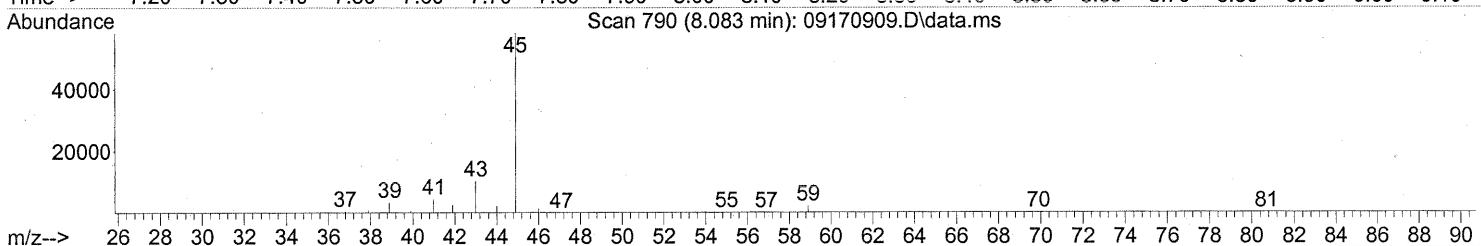
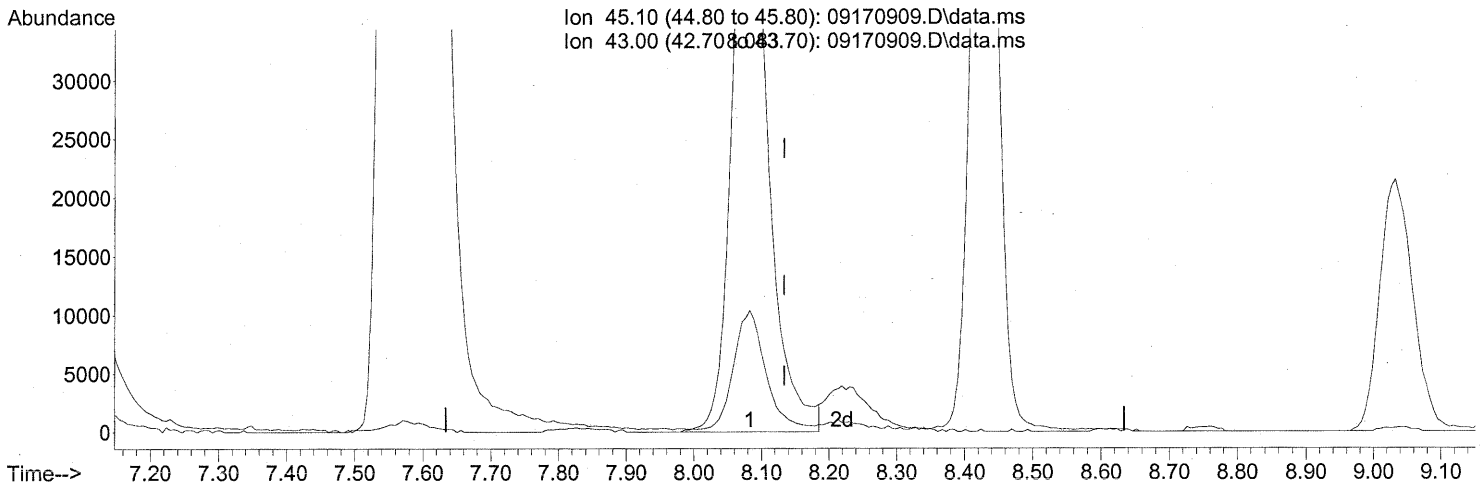
response 23266

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	66.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170909.D
Acq On : 17 Sep 2009 12:43
Operator : LH
Sample : P0903145-014 (1000mL)
Misc : Environmental H & E 102828
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170909.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 6.92ng

response 196573

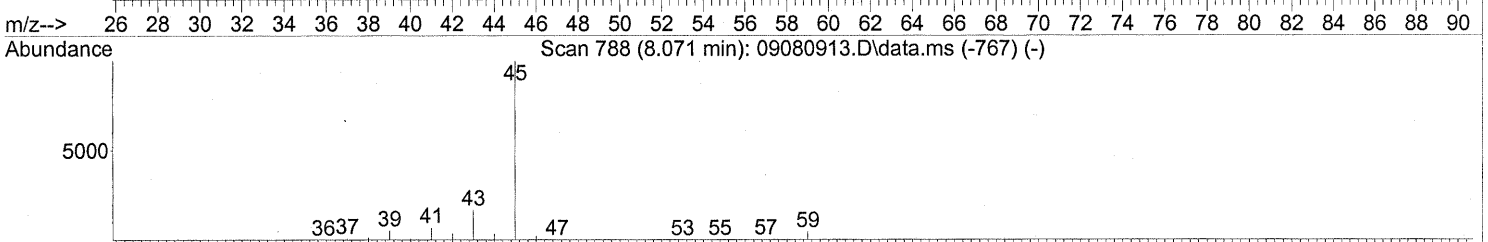
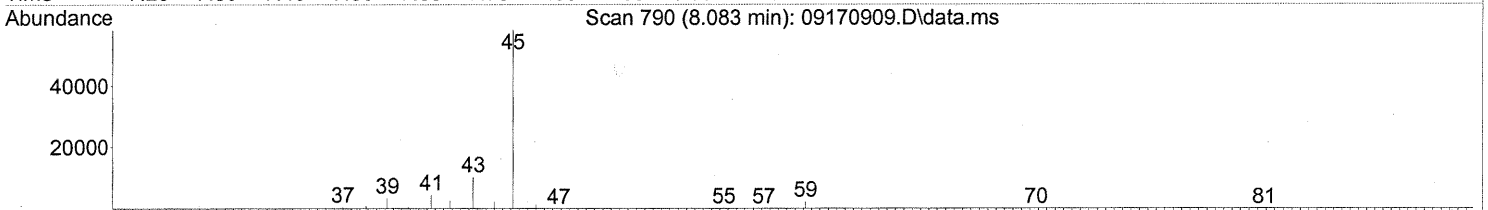
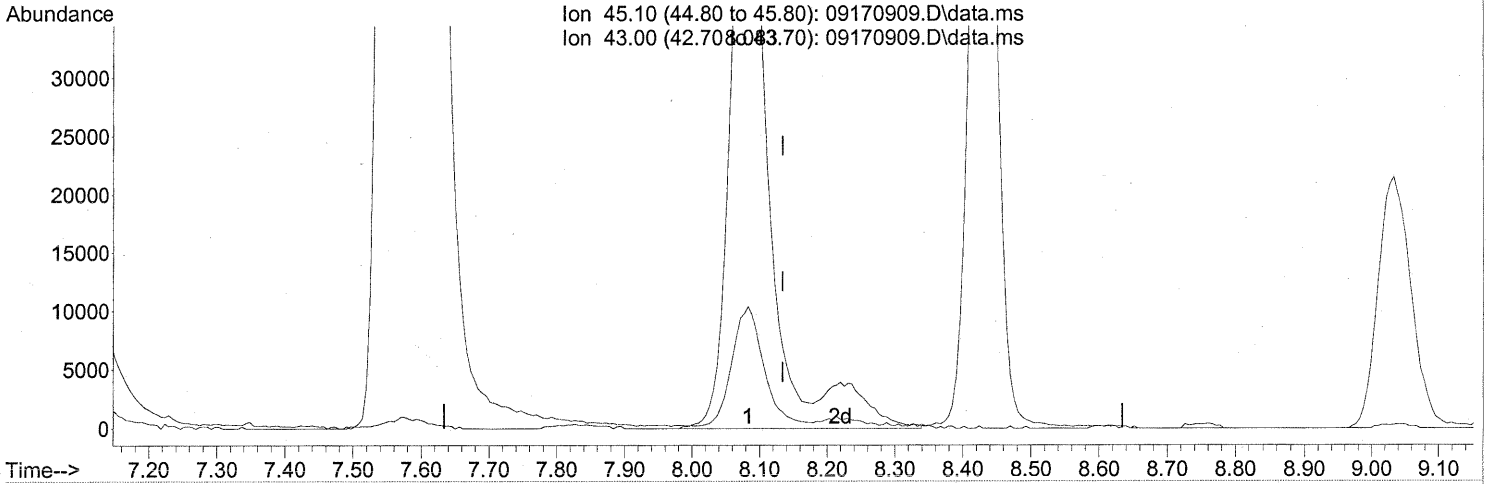
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.77
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 7.55ng m

response 214454

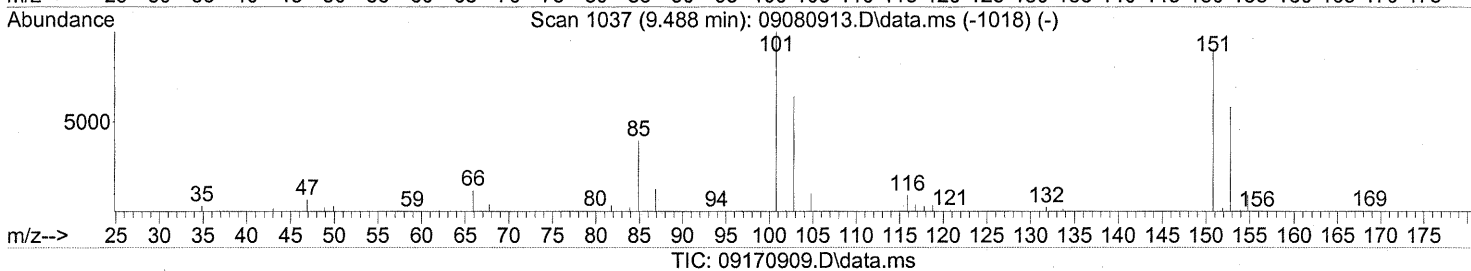
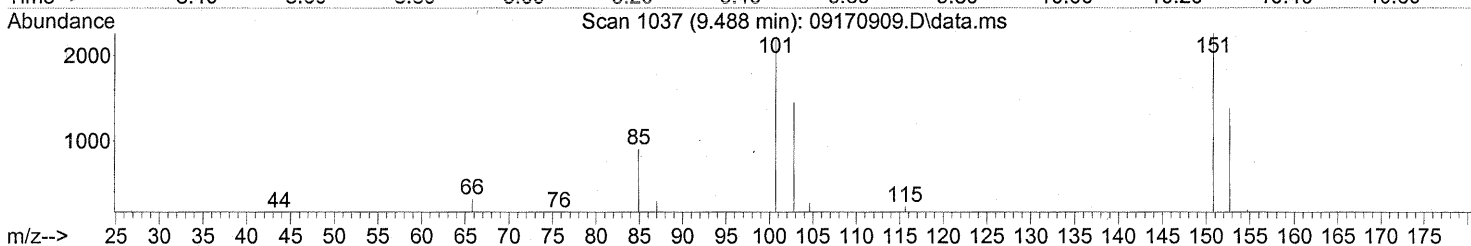
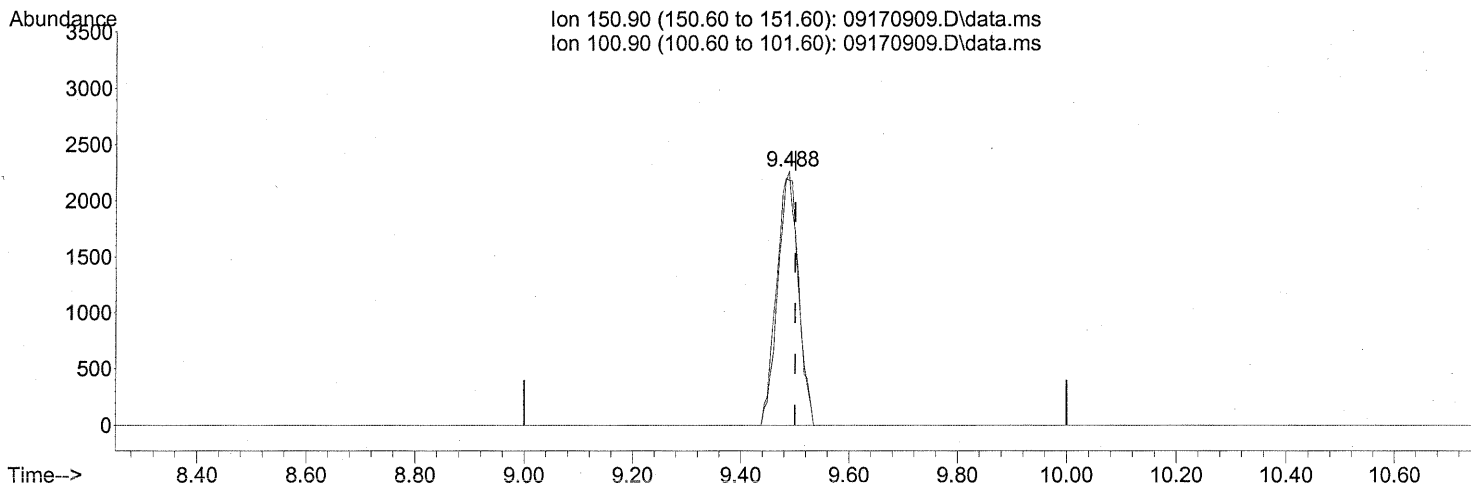
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.37
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 via 9/21/09
 com 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.488min (-0.011) 0.60ng

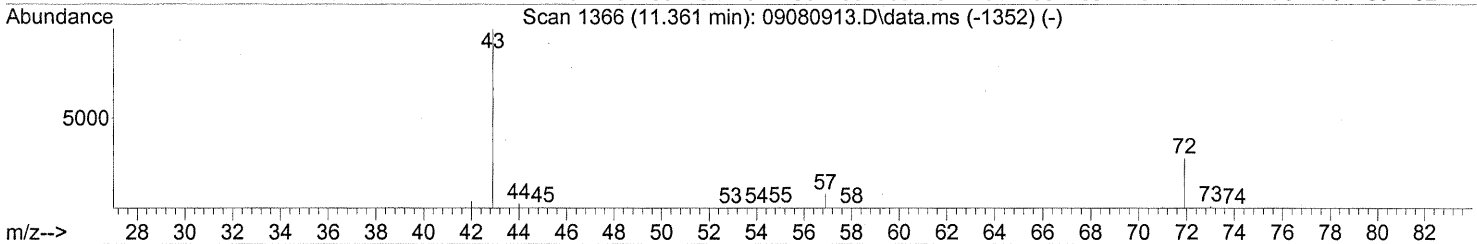
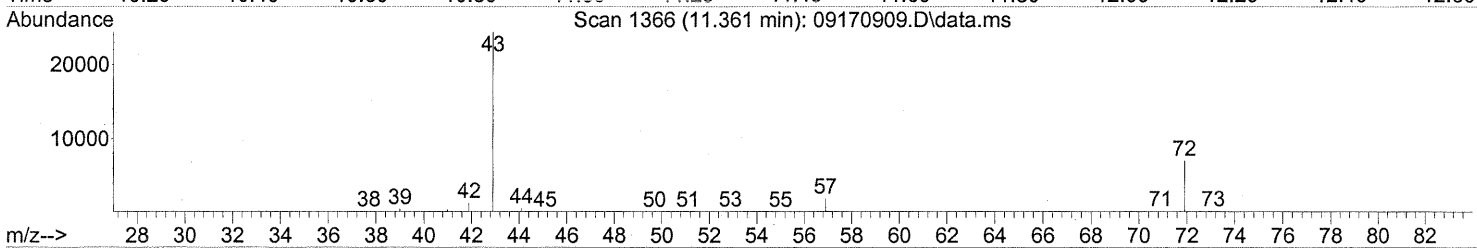
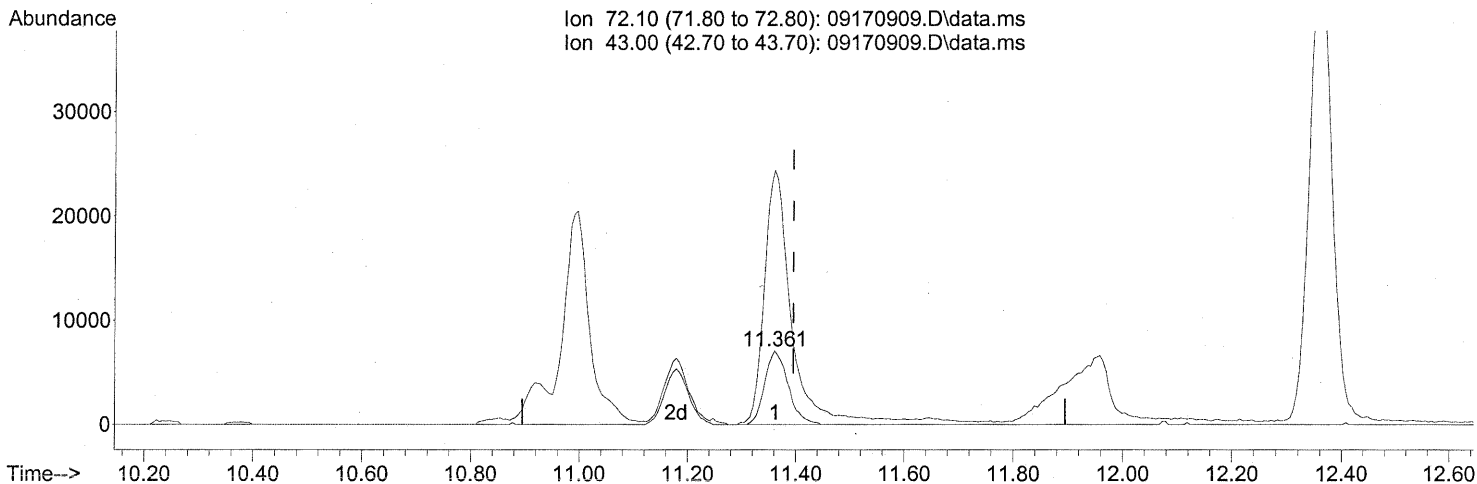
response 5907

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	106.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(27) 2-Butanone (MEK) (T)

11.361min (-0.034) 2.70ng

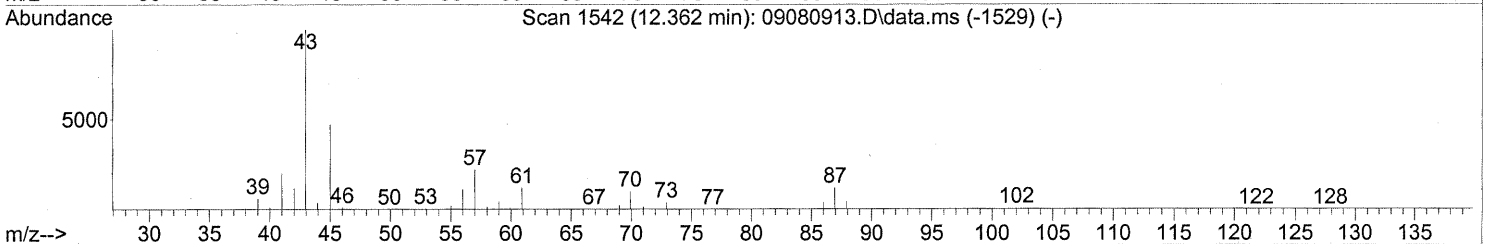
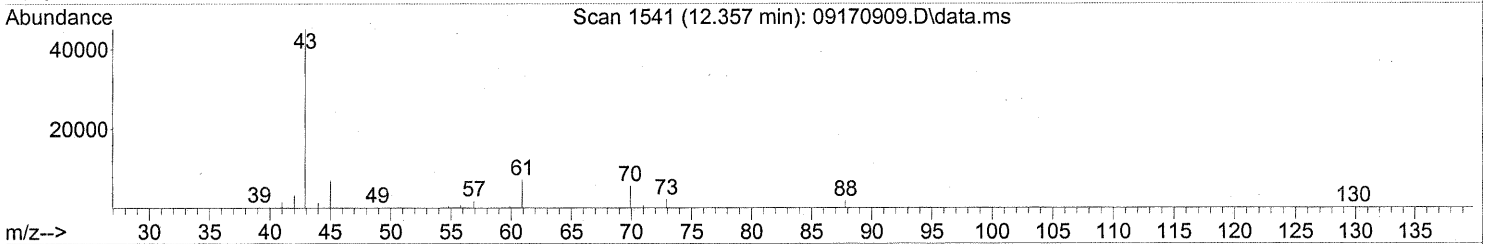
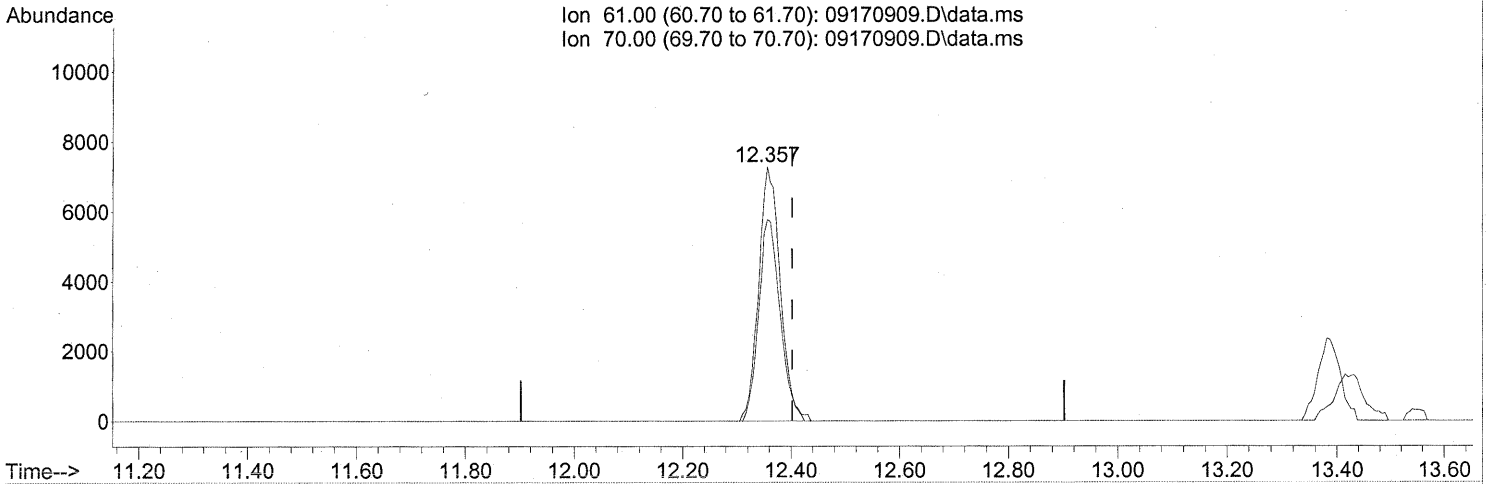
response 21412

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	402.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(30) Ethyl Acetate (T)

12.357min (-0.046) 5.04ng

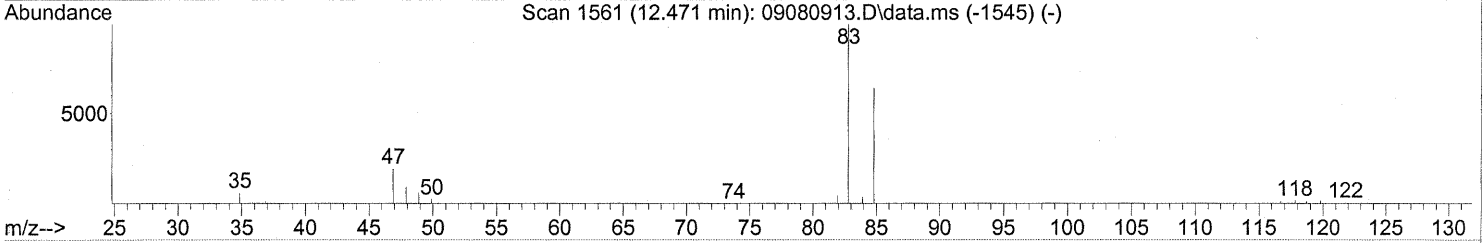
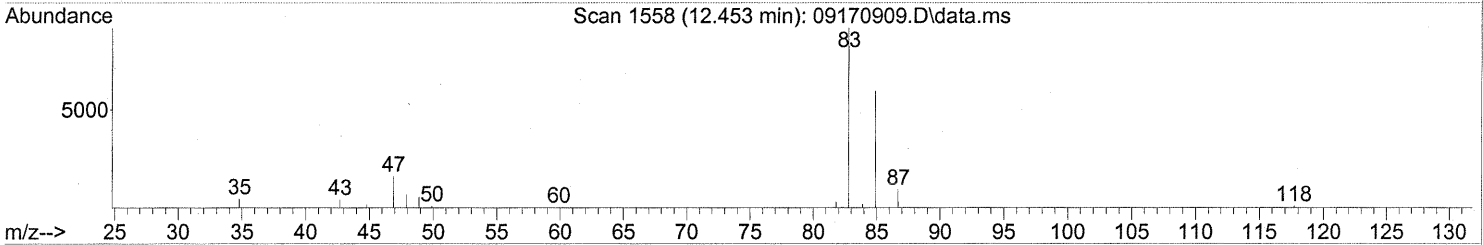
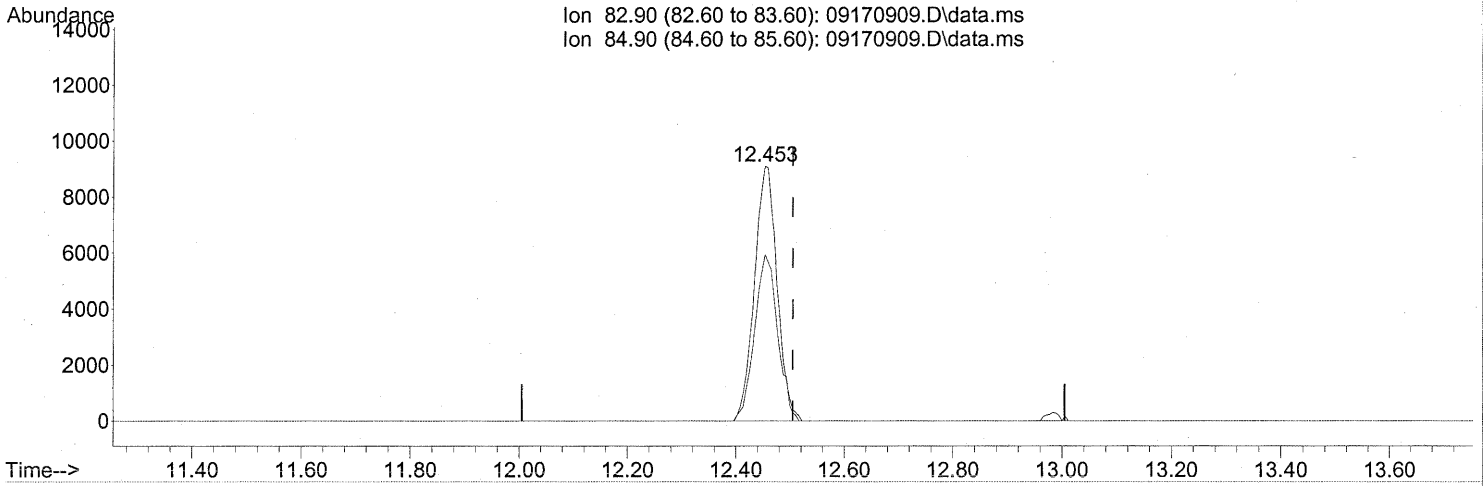
response 20272

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	79.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.453min (-0.051) 1.35ng

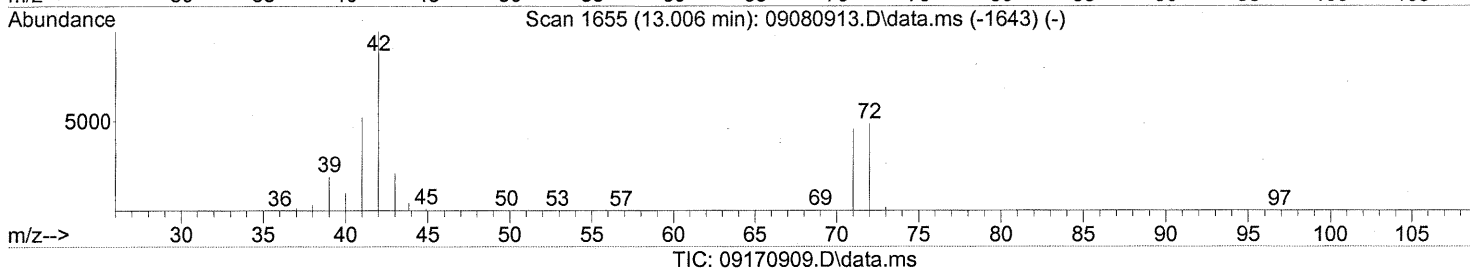
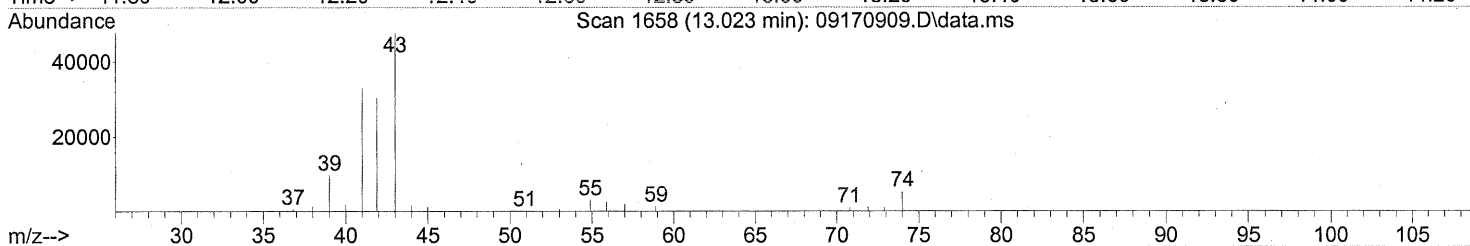
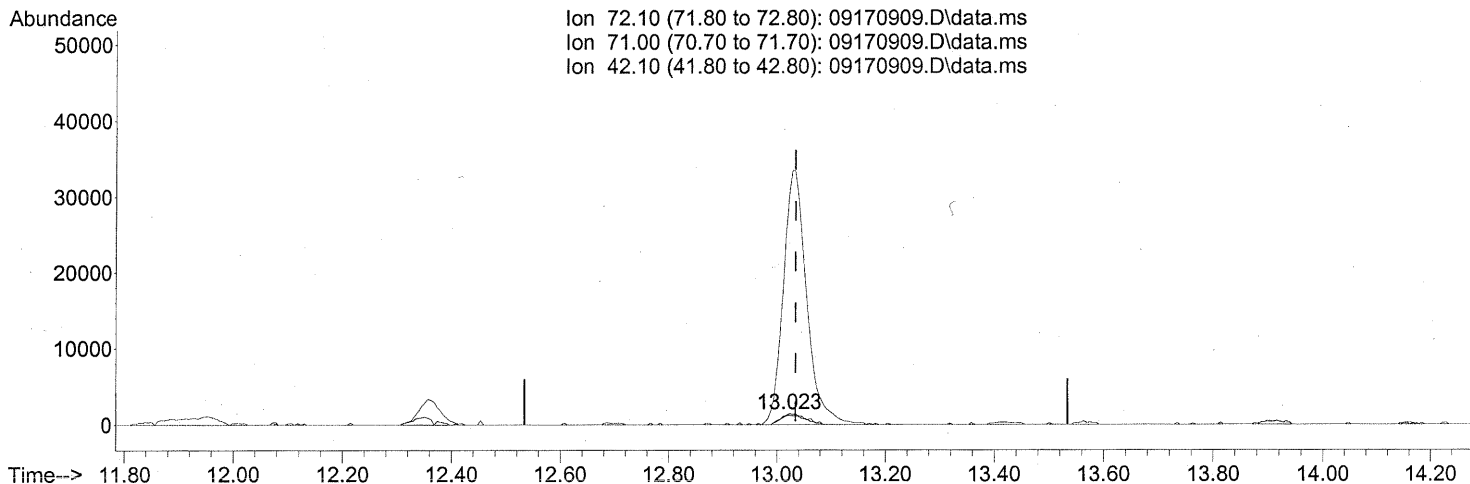
response 26466

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	66.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.023min (-0.011) 0.59ng

response 4321

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	90.81
42.10	240.00	2324.35#
0.00	0.00	0.00

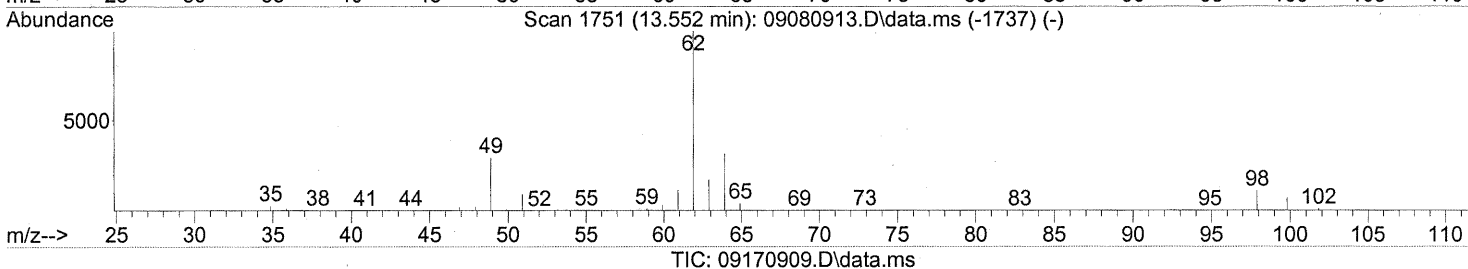
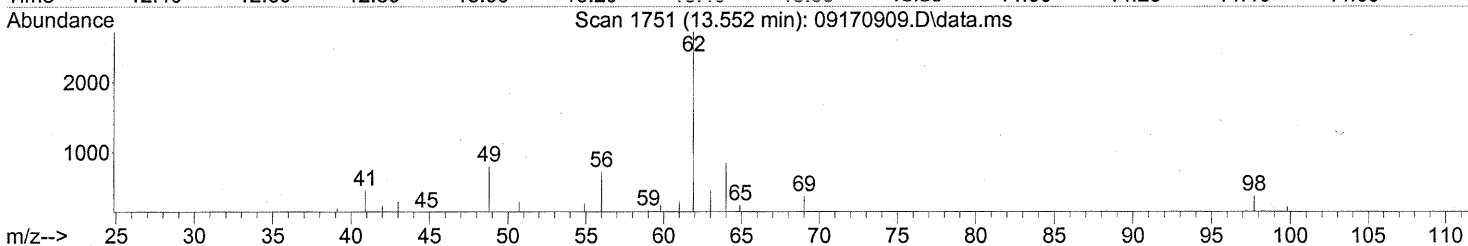
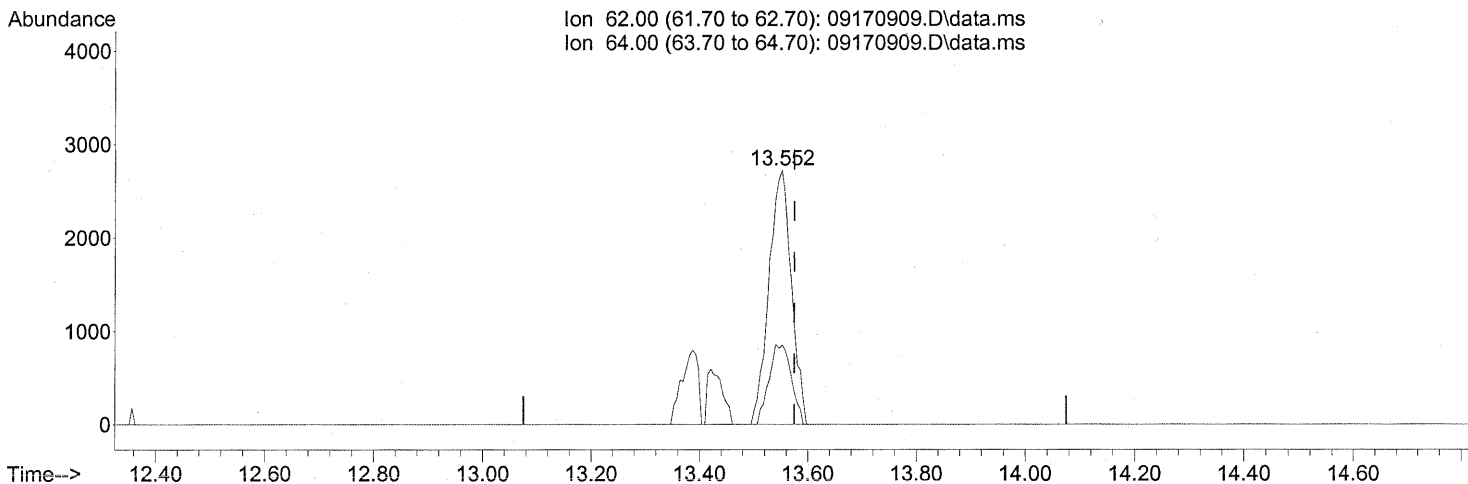
FP M 9/21/09

Com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.552min (-0.023) 0.58ng

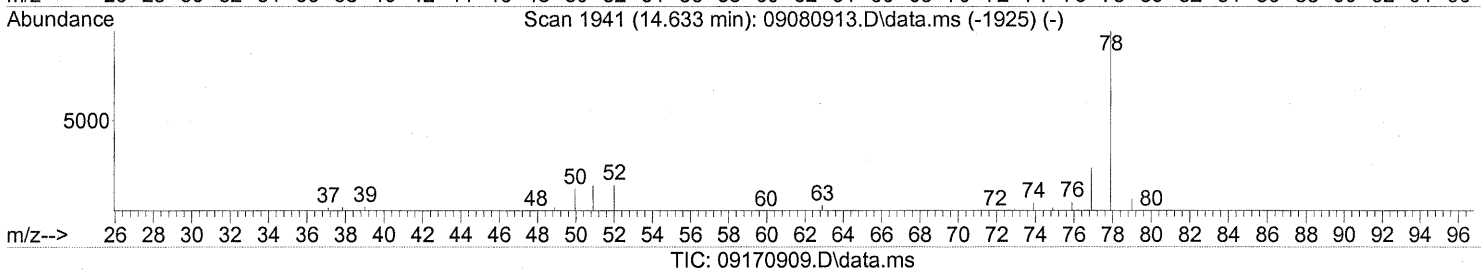
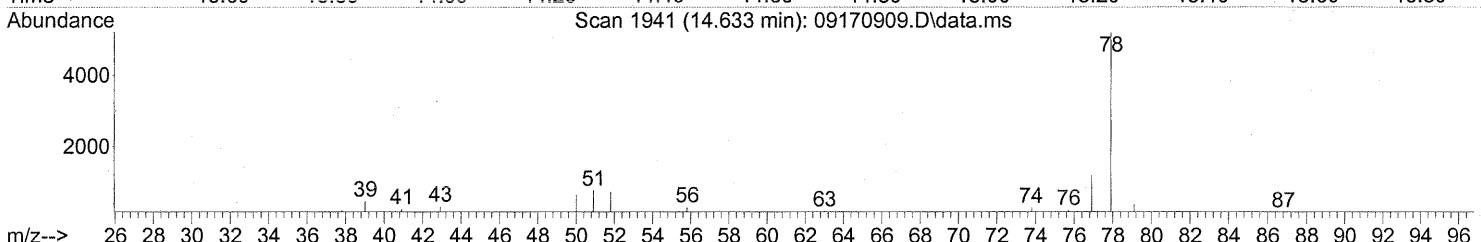
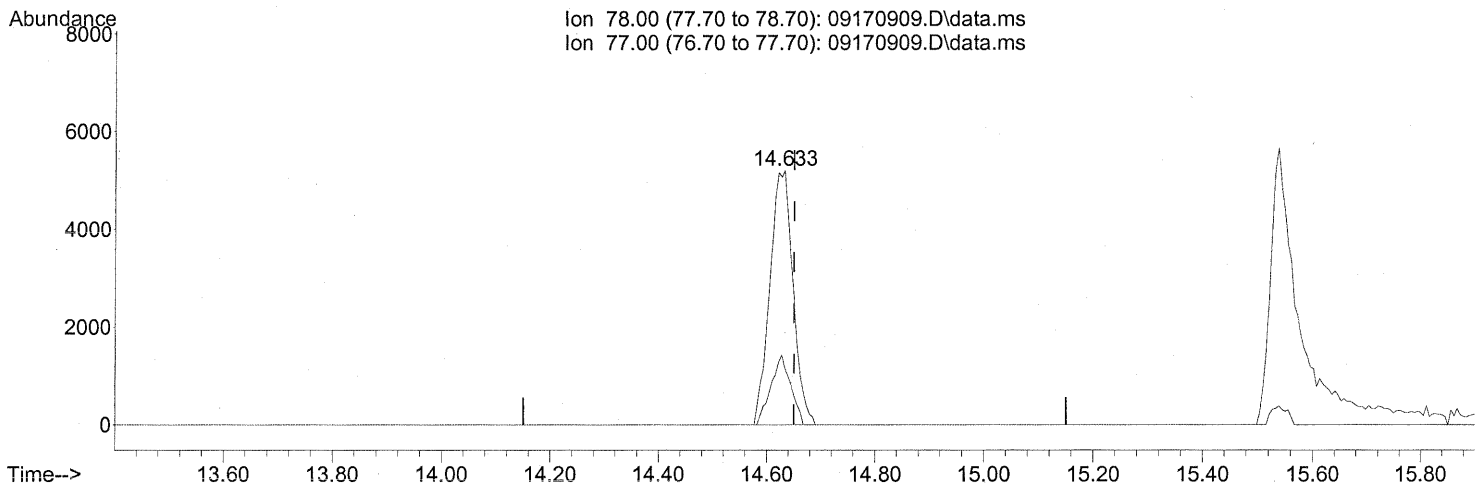
response 7830

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	31.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.633min (-0.017) 0.32ng

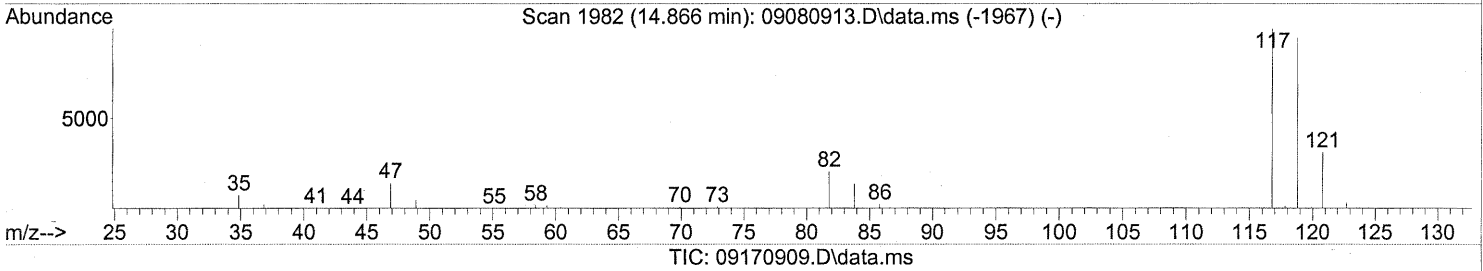
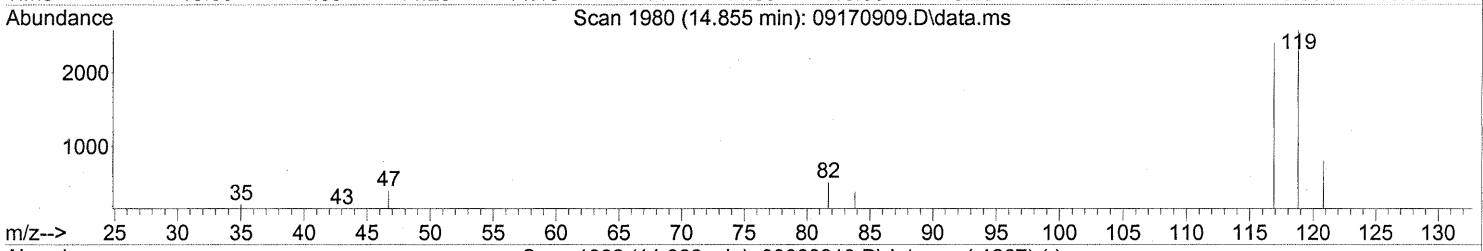
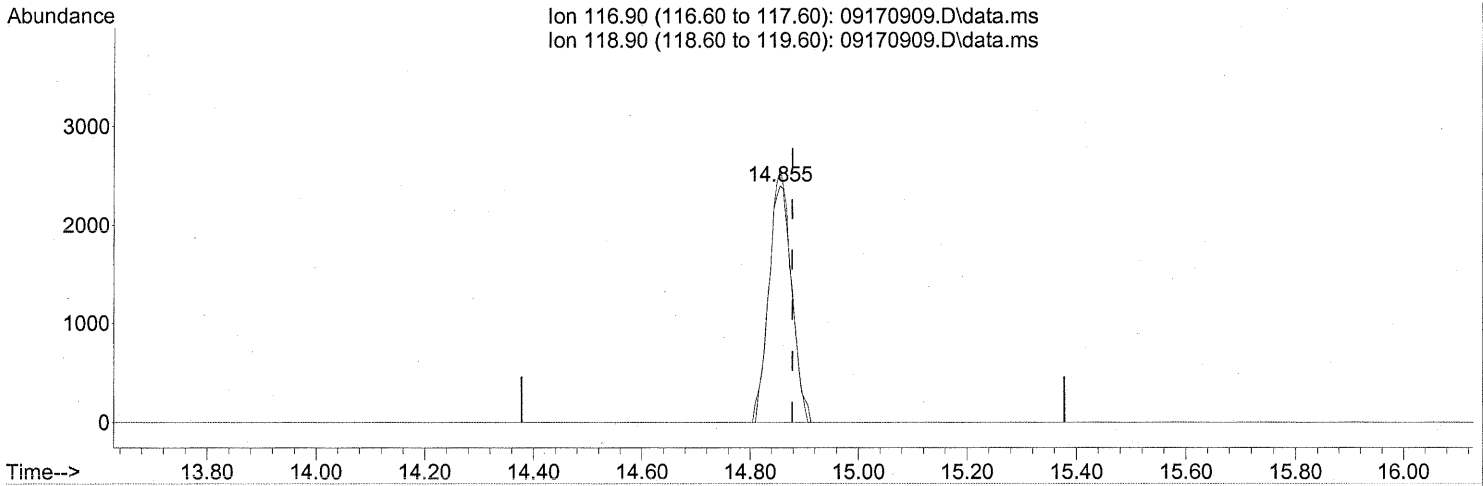
response 15441

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	23.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.50ng

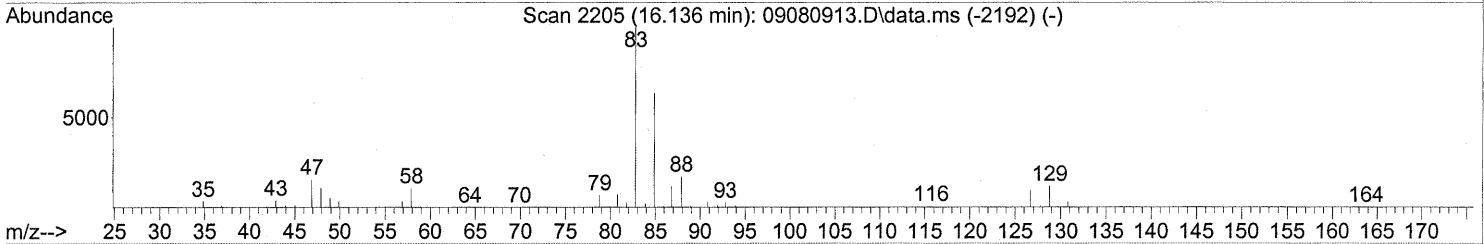
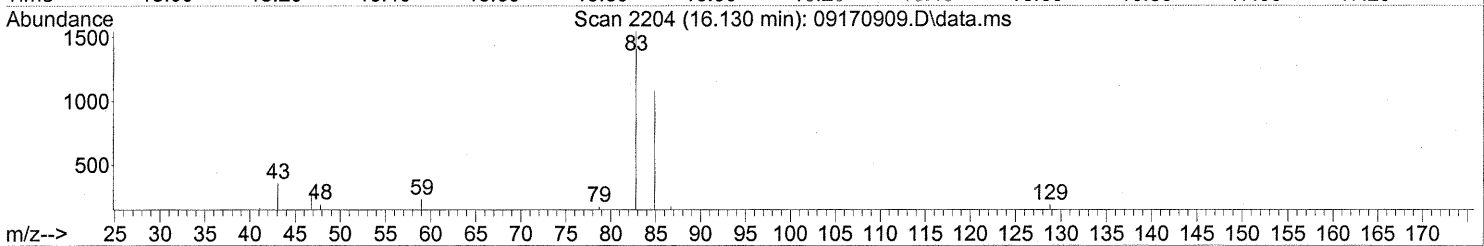
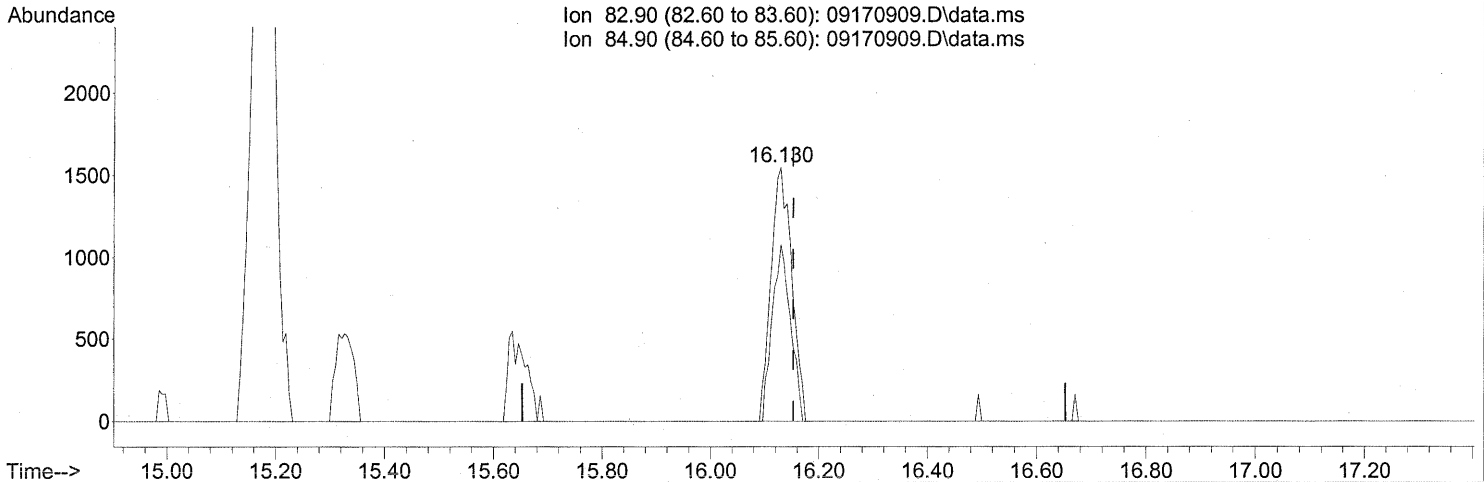
response 7177

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	100.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.130min (-0.023) 0.28ng

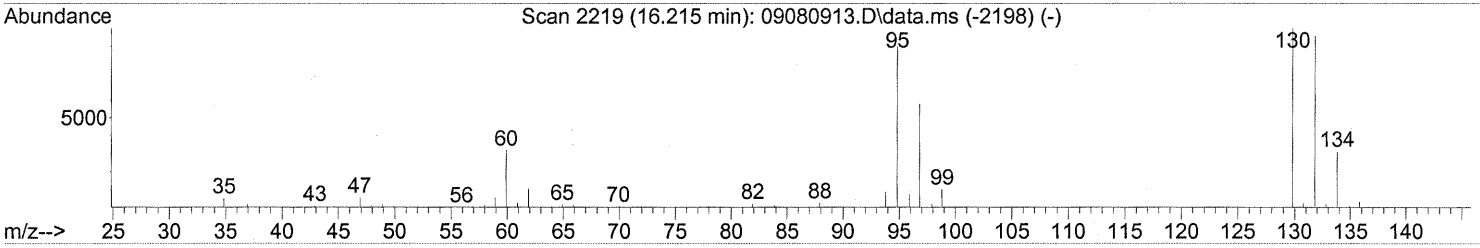
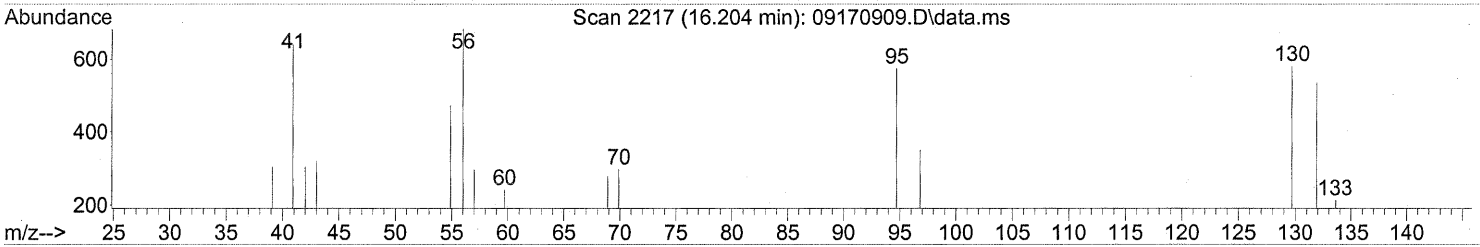
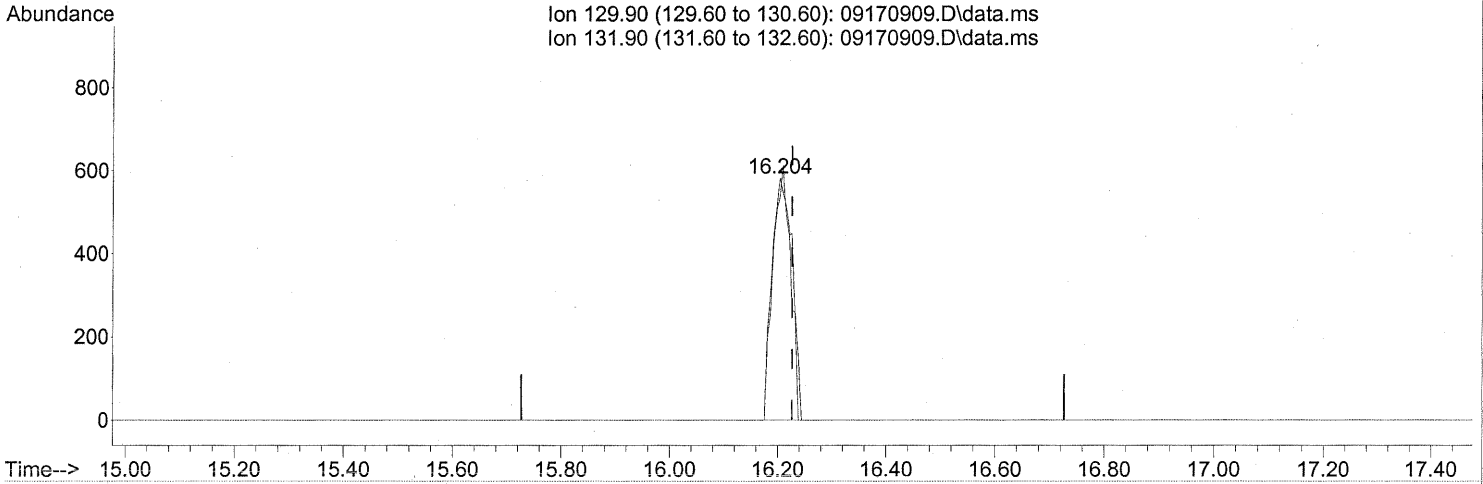
response 4123

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	61.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.204min (-0.023) 0.10ng

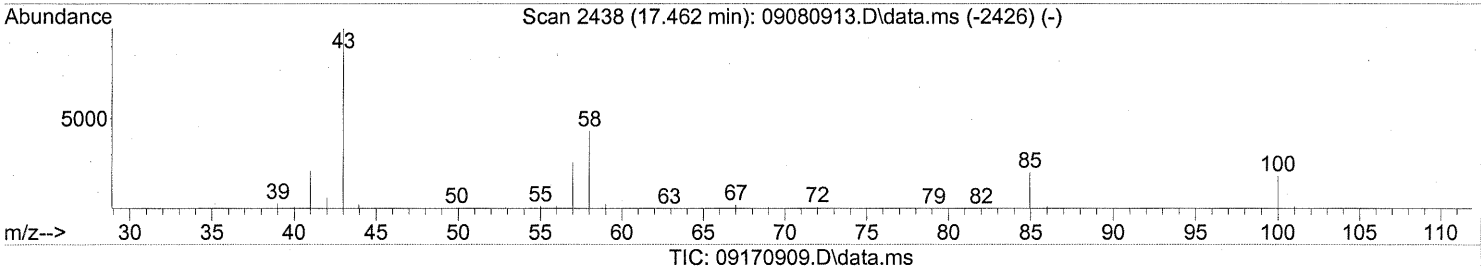
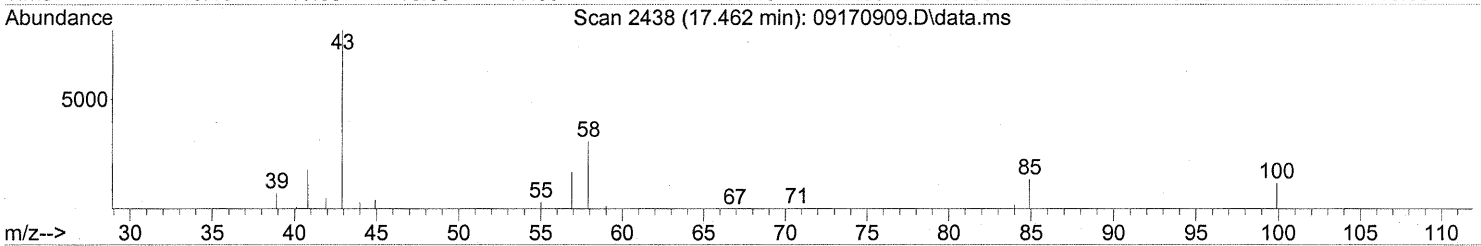
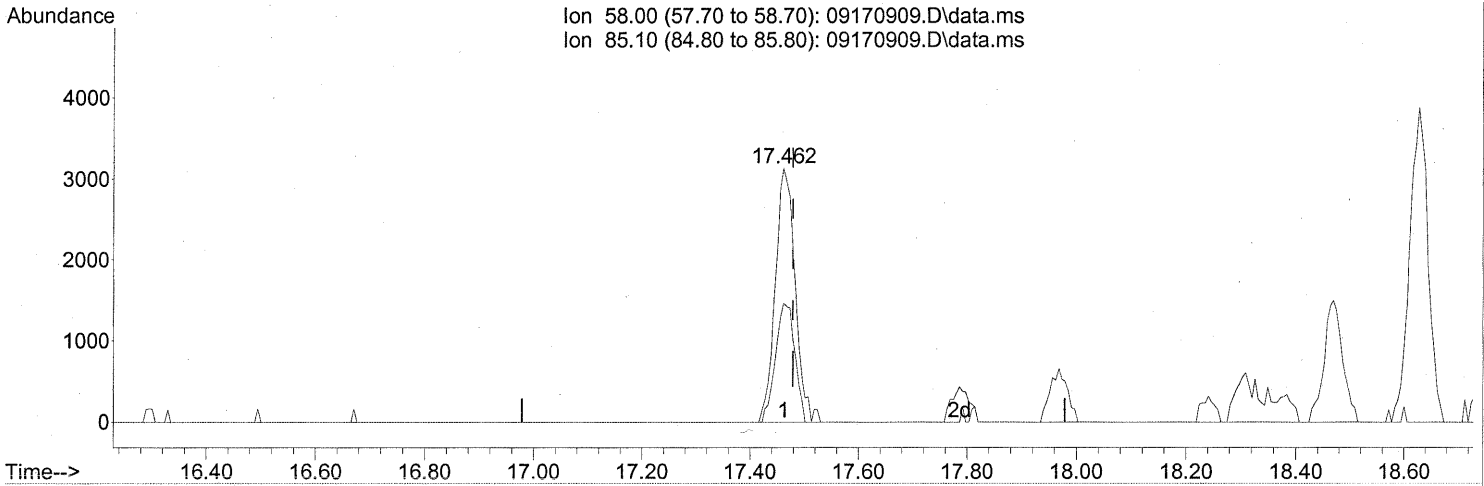
response 1459

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	97.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170909.D
Acq On : 17 Sep 2009 12:43
Operator : LH
Sample : P0903145-014 (1000mL)
Misc : Environmental H & E 102828
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 0.75ng

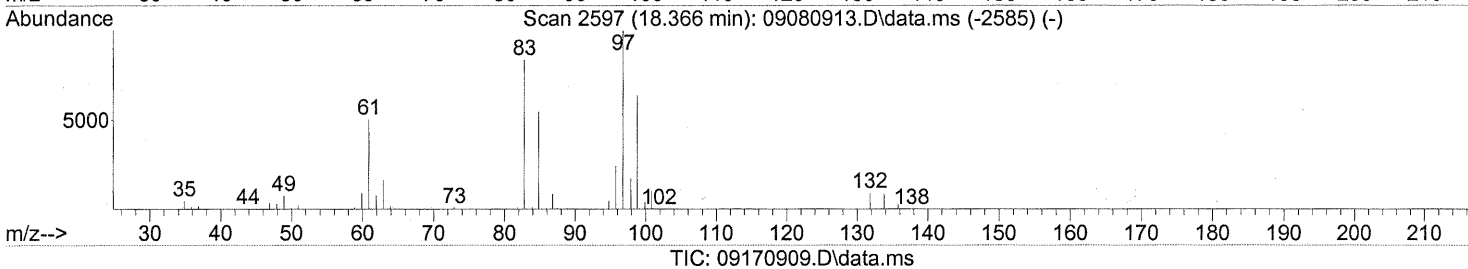
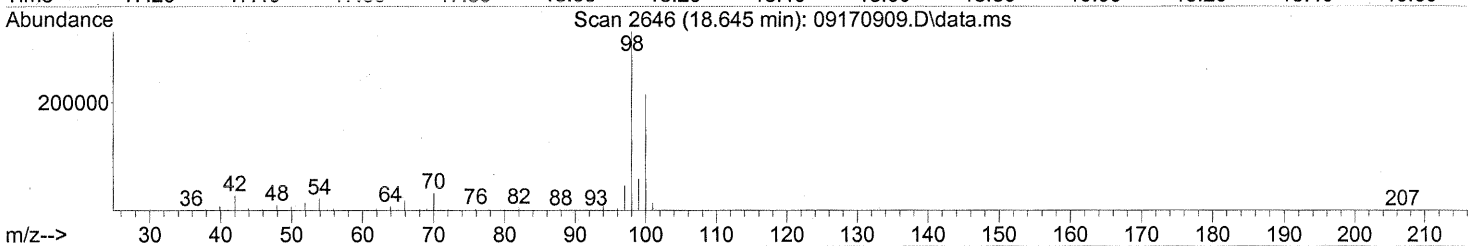
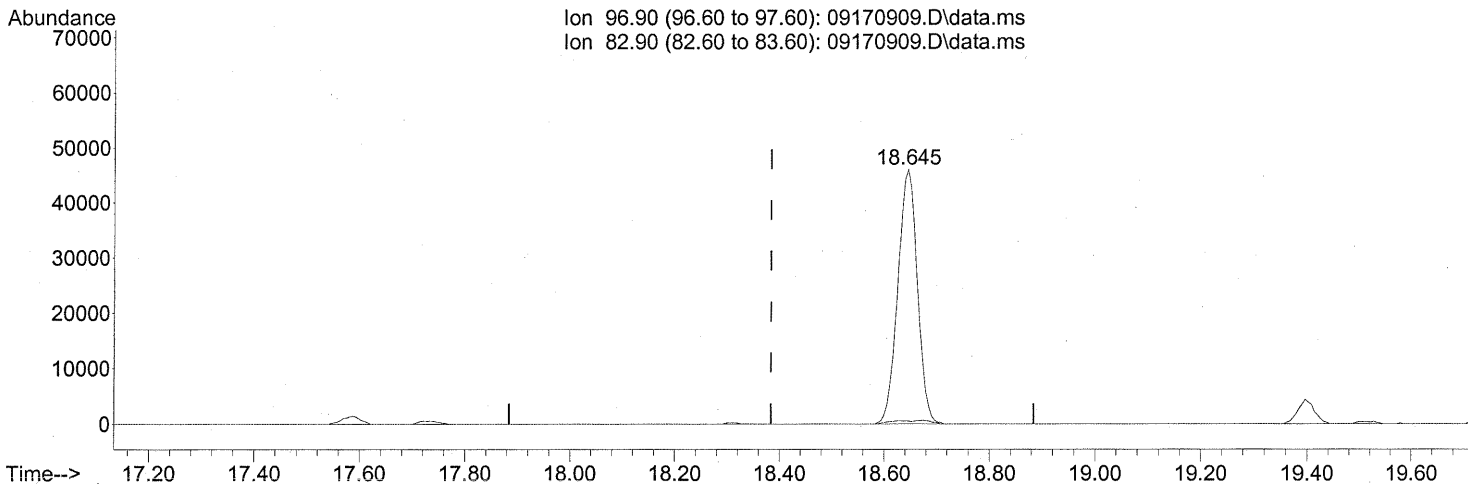
response 7944

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	45.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.96ng

response 119115

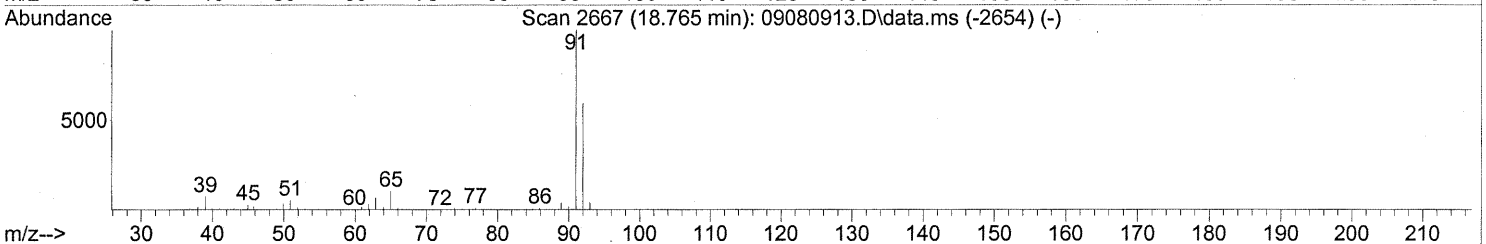
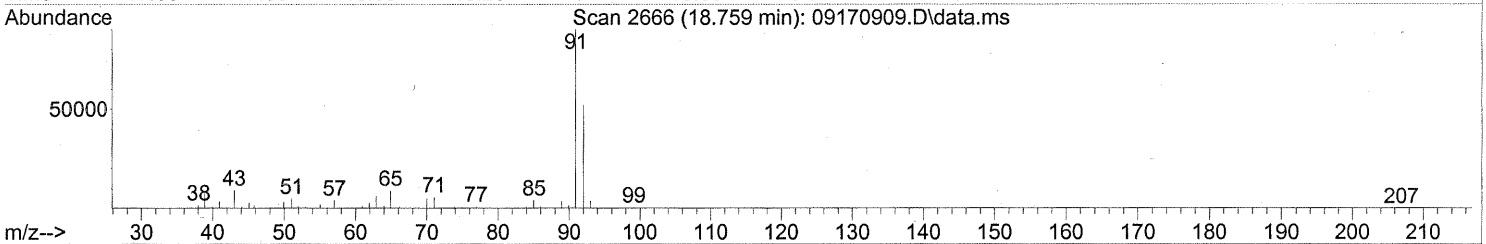
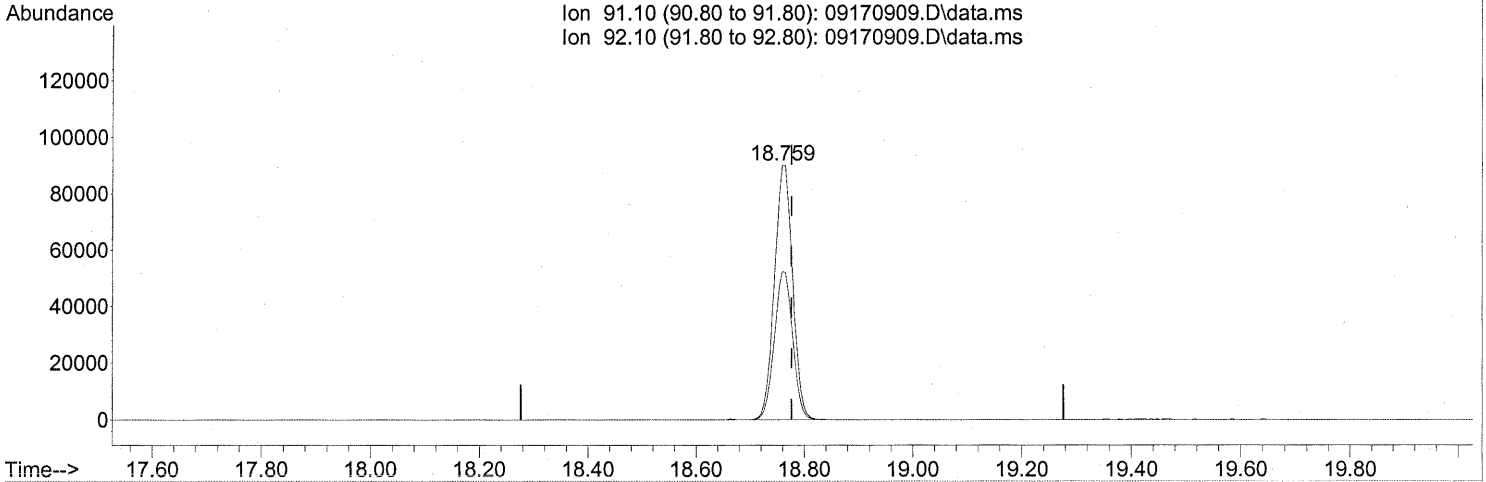
Ion	Exp%	Act%
96.90	100	100
82.90	89.00	1.42#
0.00	0.00	0.00
0.00	0.00	0.00

FP LH 9/21/09
can 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(58) Toluene (T)

18.759min (-0.017) 3.94ng

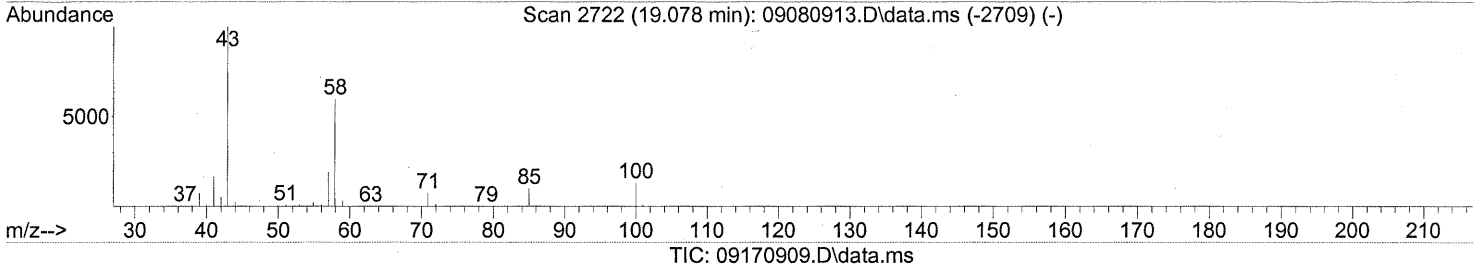
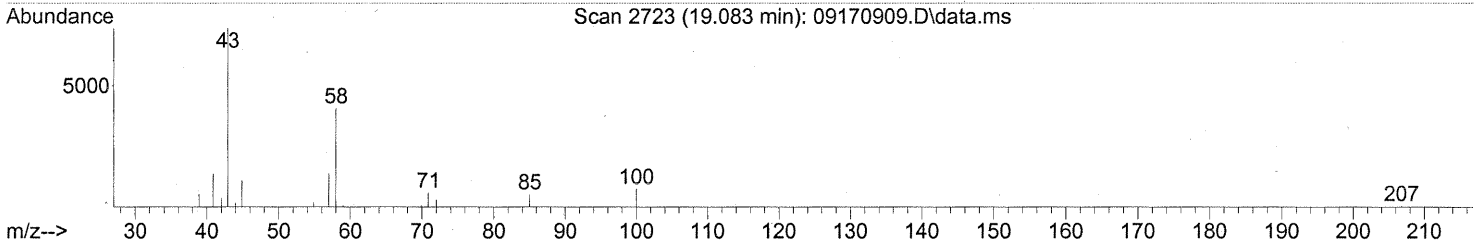
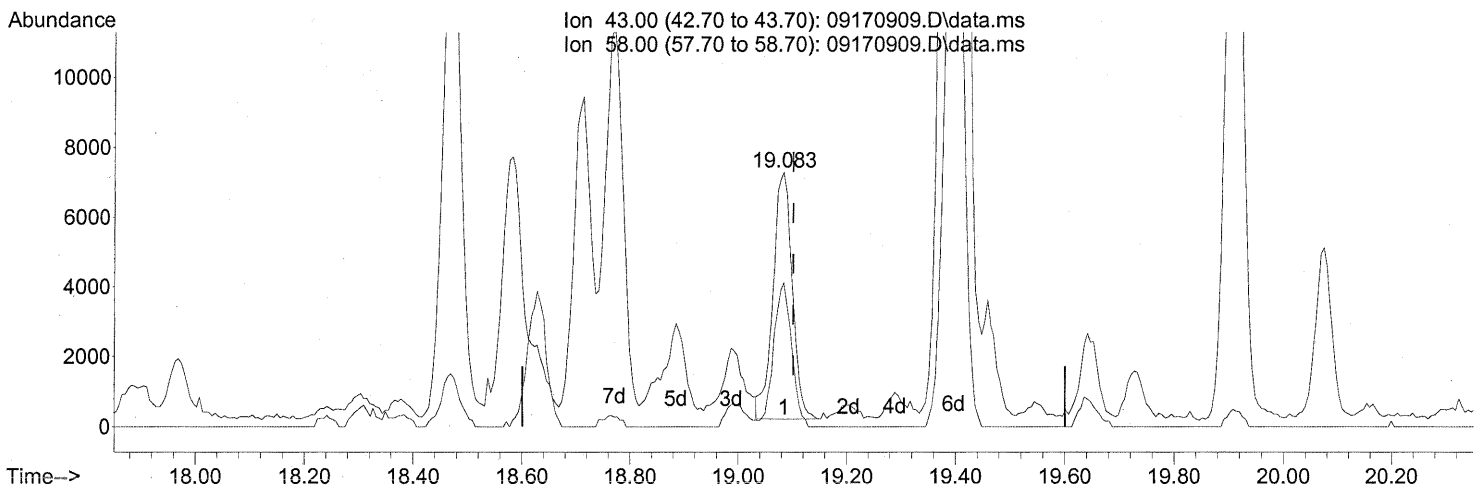
response 209594

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



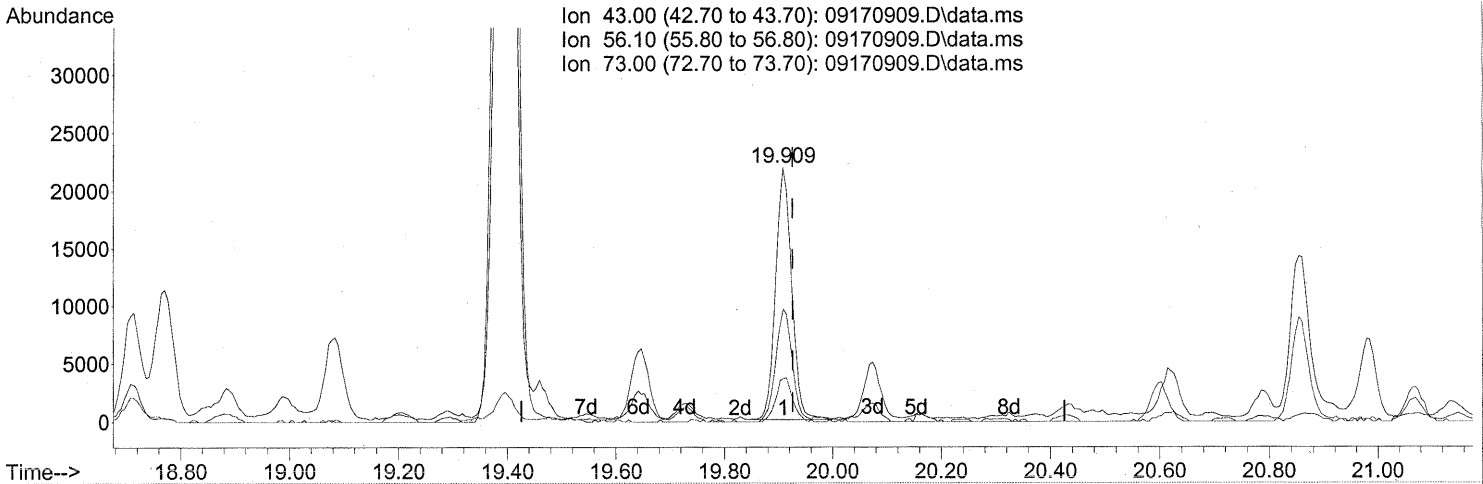
(59) 2-Hexanone (T)
 19.083min (-0.017) 0.68ng
 response 17465

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	54.30
0.00	0.00	0.00
0.00	0.00	0.00

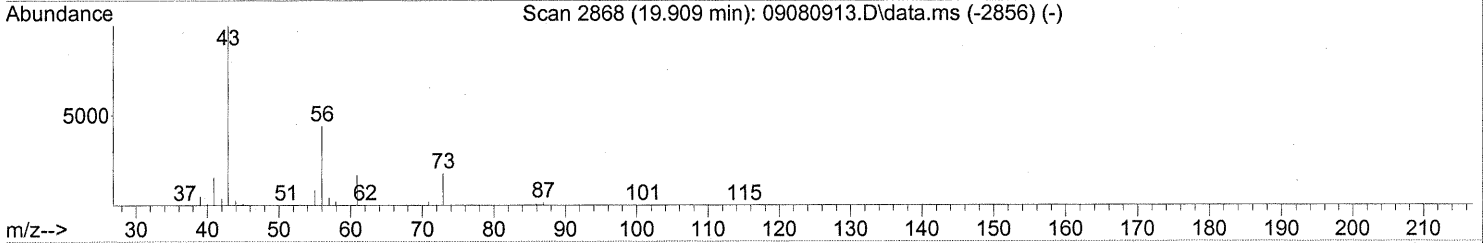
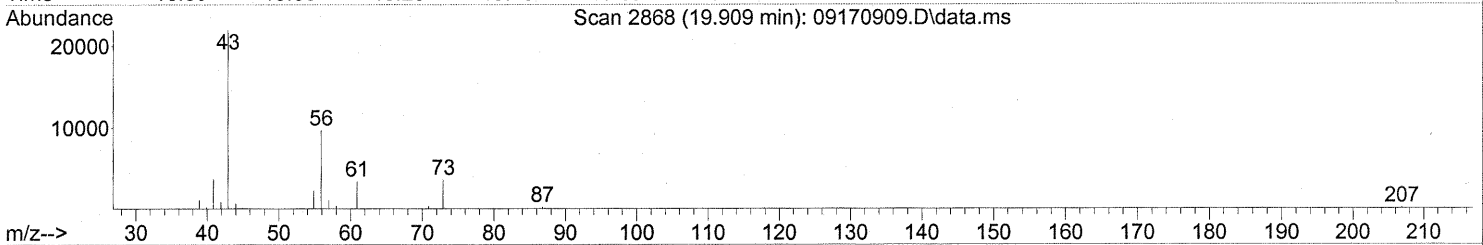
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 09170909.D\data.ms
 Ion 56.10 (55.80 to 56.80): 09170909.D\data.ms
 Ion 73.00 (72.70 to 73.70): 09170909.D\data.ms



(62) n-Butyl Acetate (T)

19.909min (-0.017) 1.55ng

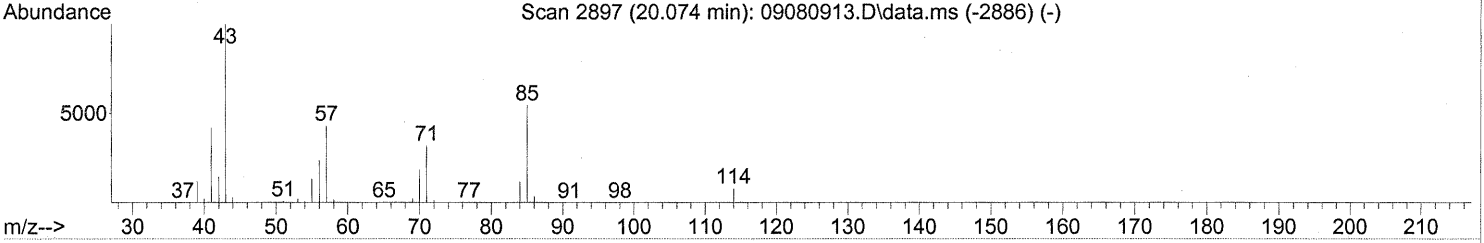
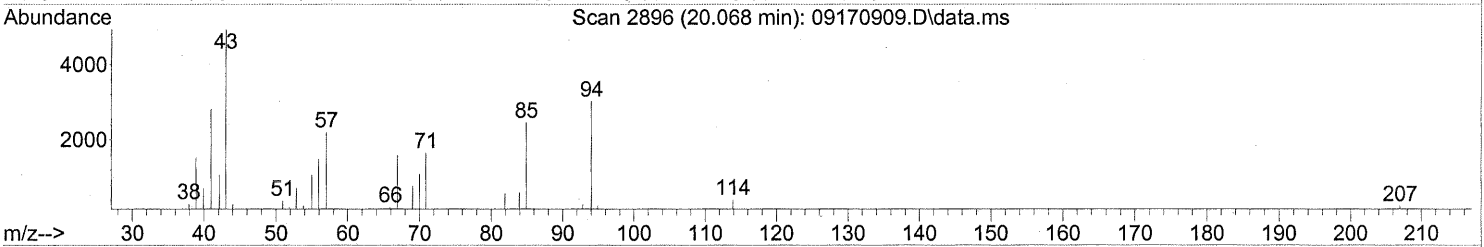
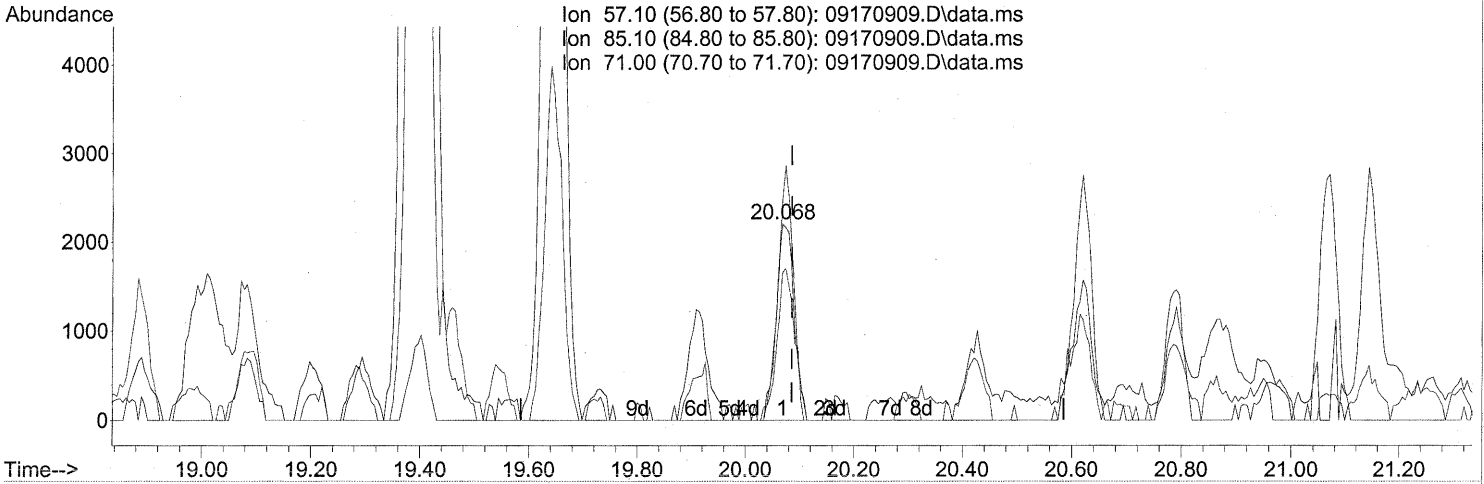
response 45467

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	45.74
73.00	15.40	18.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.068min (-0.017) 0.51ng

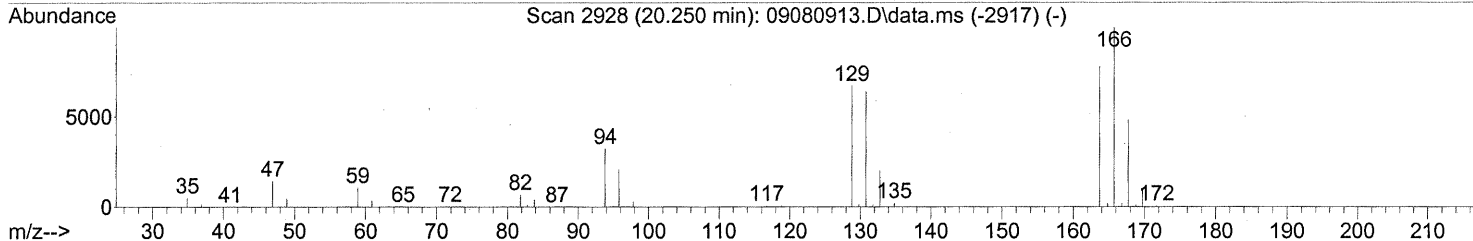
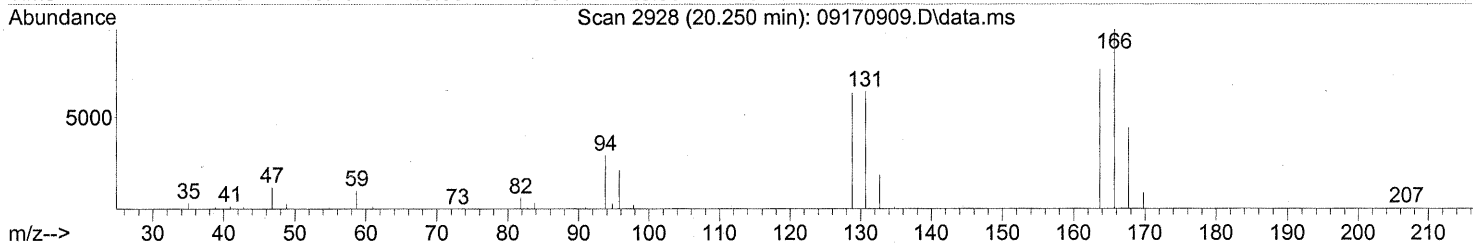
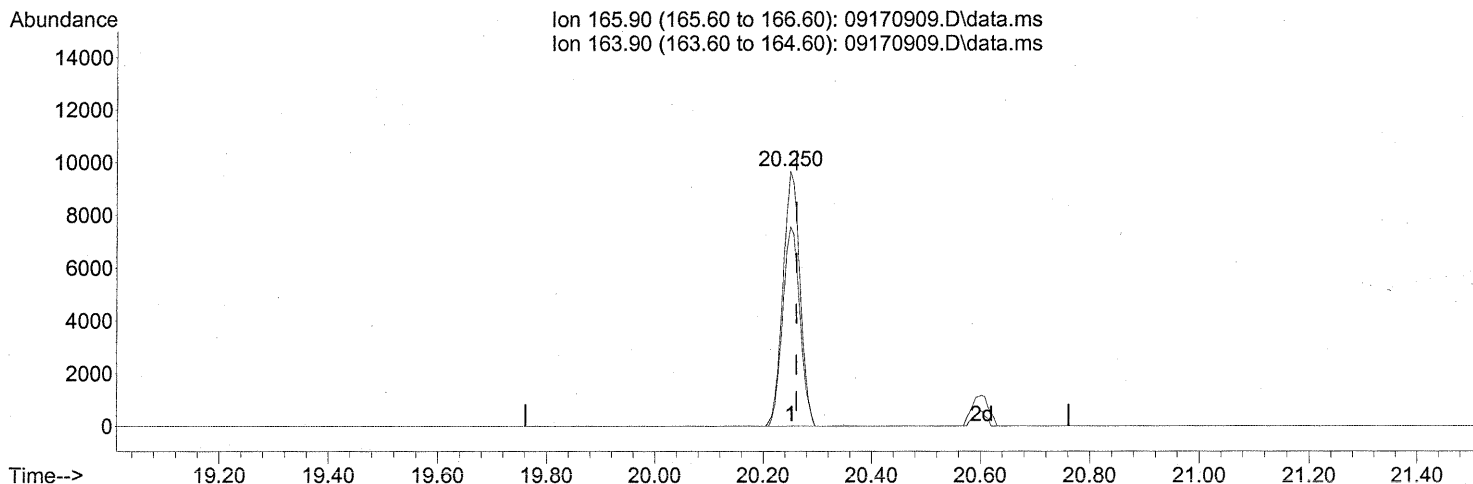
response 5044

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	113.07
71.00	69.40	74.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(64) Tetrachloroethene (T)

20.250min (-0.011) 1.29ng

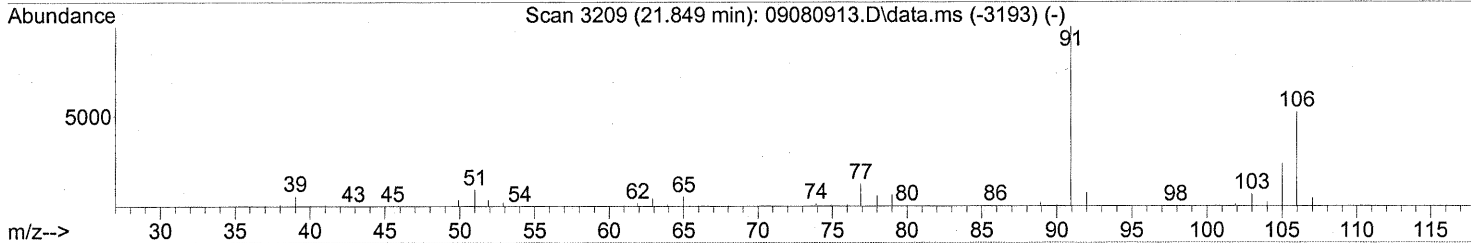
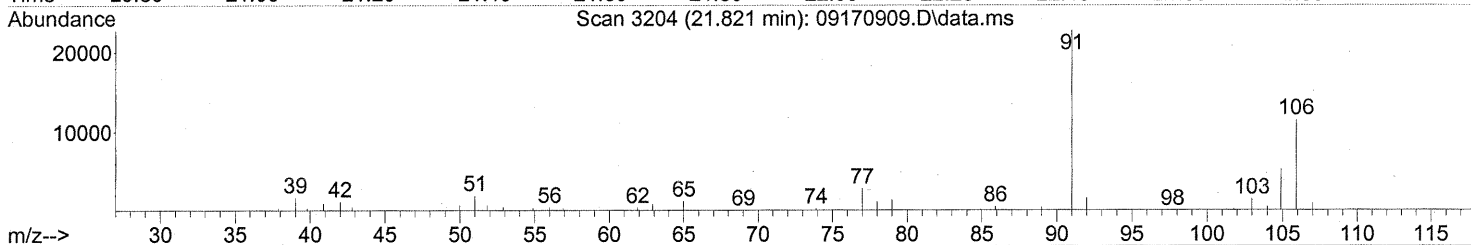
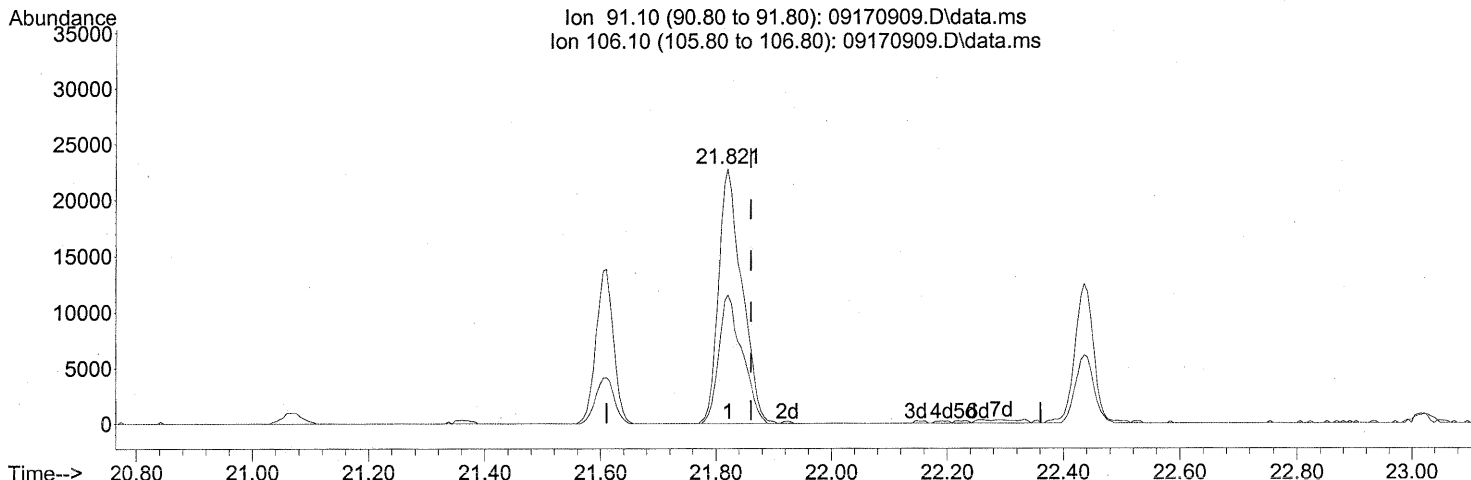
response 21210

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	78.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(67) m- & p-Xylenes (T)

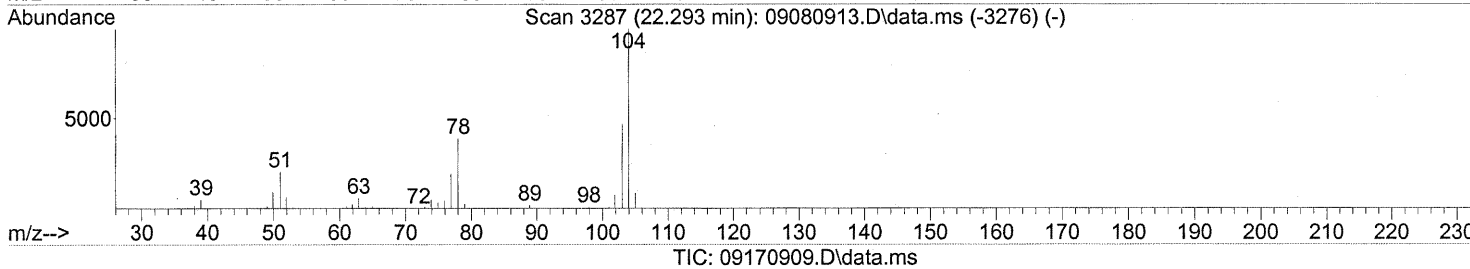
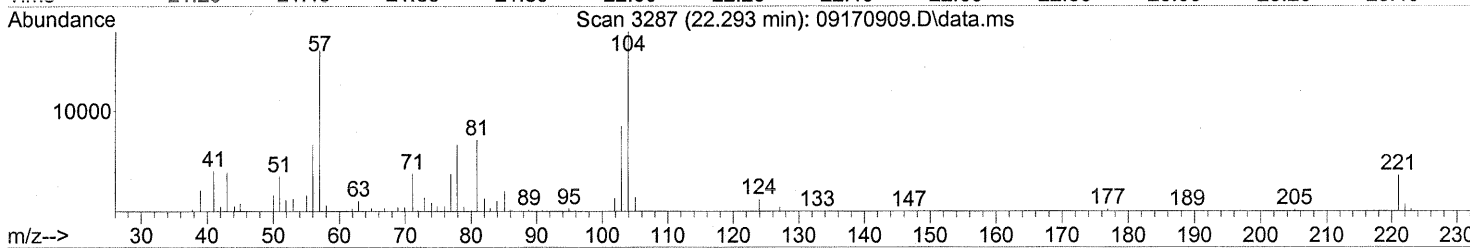
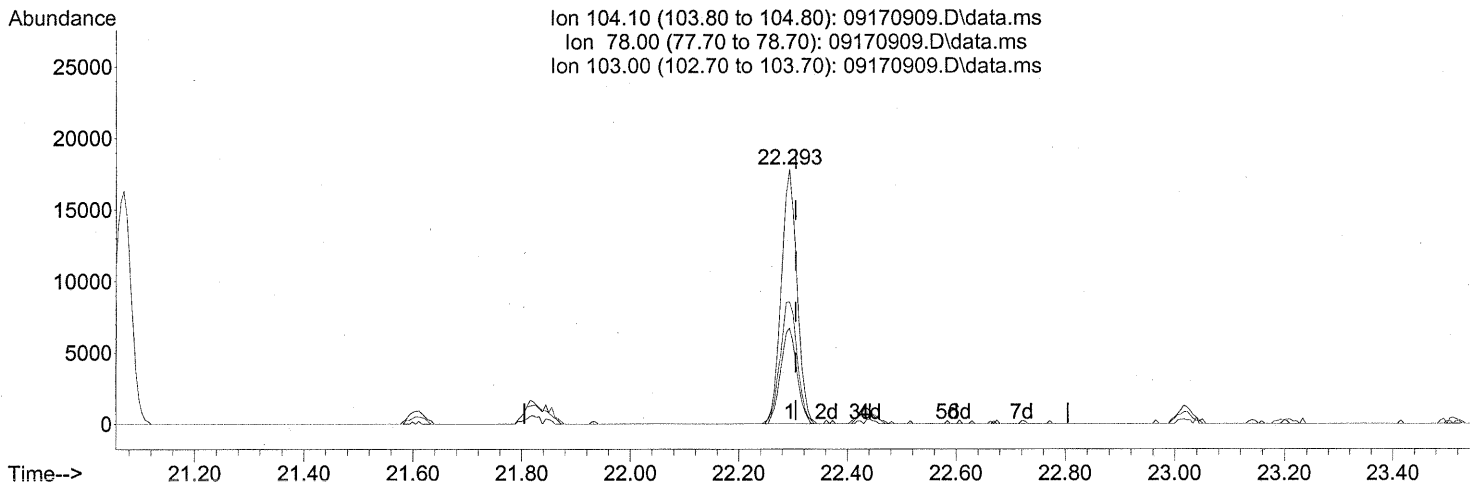
21.821min (-0.040) 1.41ng
 response 64245

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	50.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 0.96ng

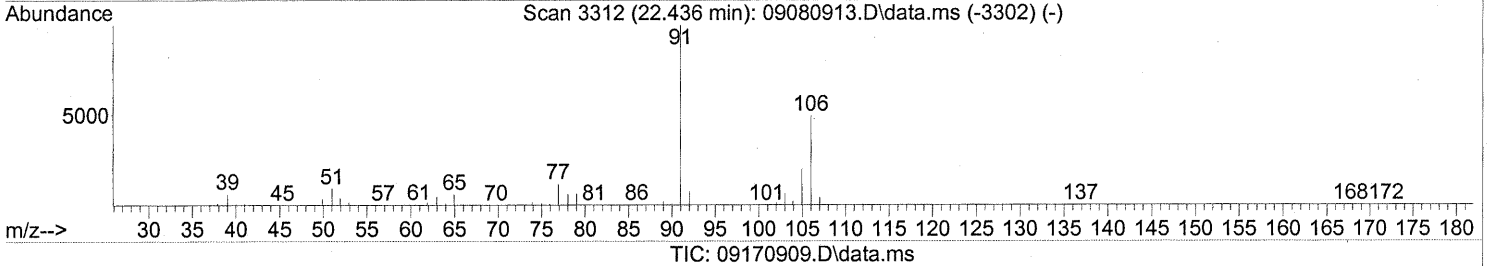
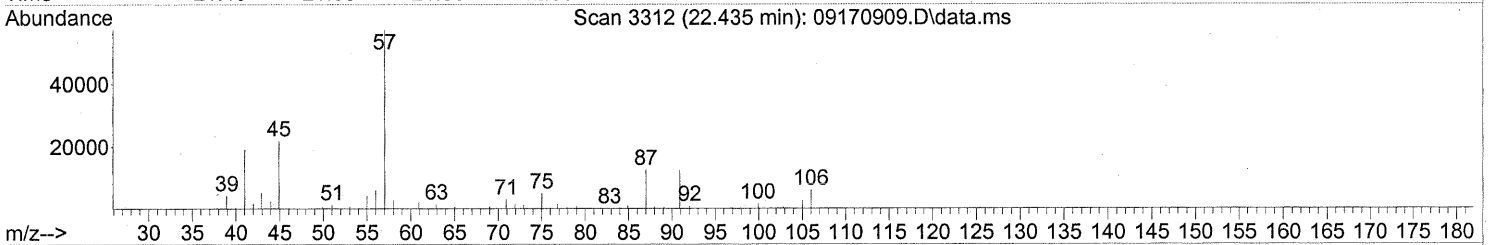
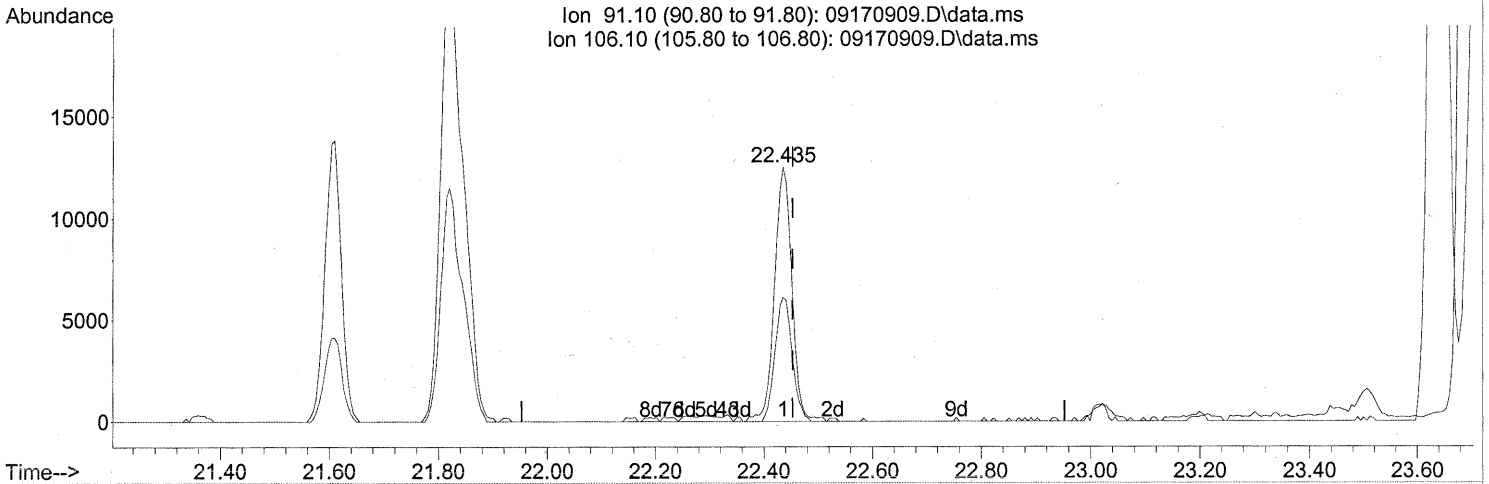
response 36095

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.73
103.00	47.80	52.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.435min (-0.017) 0.60ng

response 27841

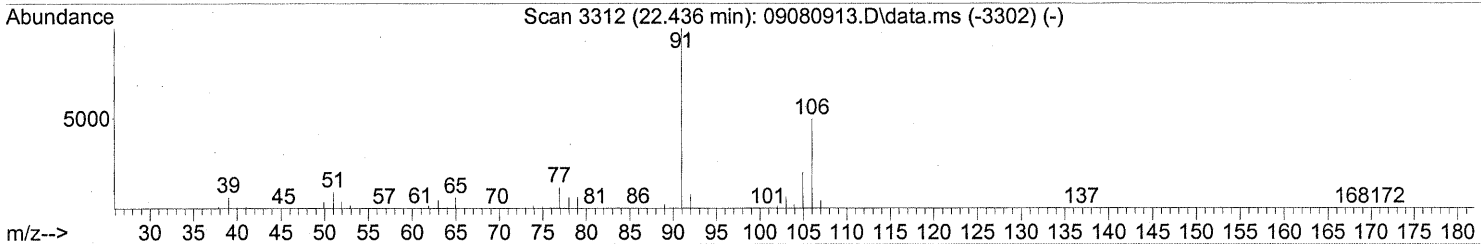
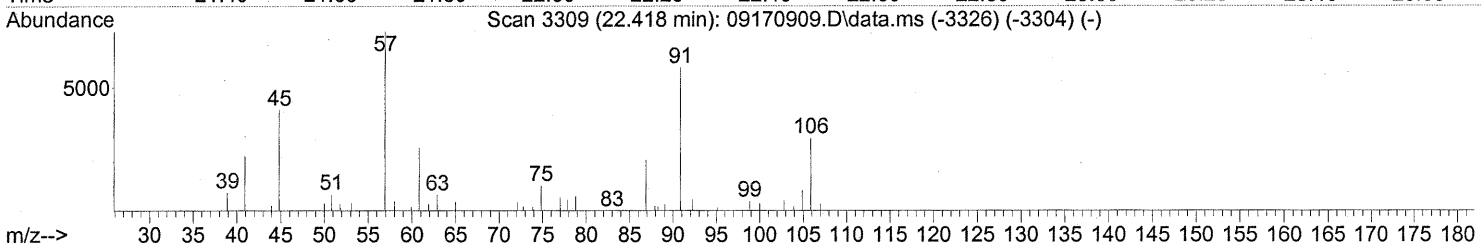
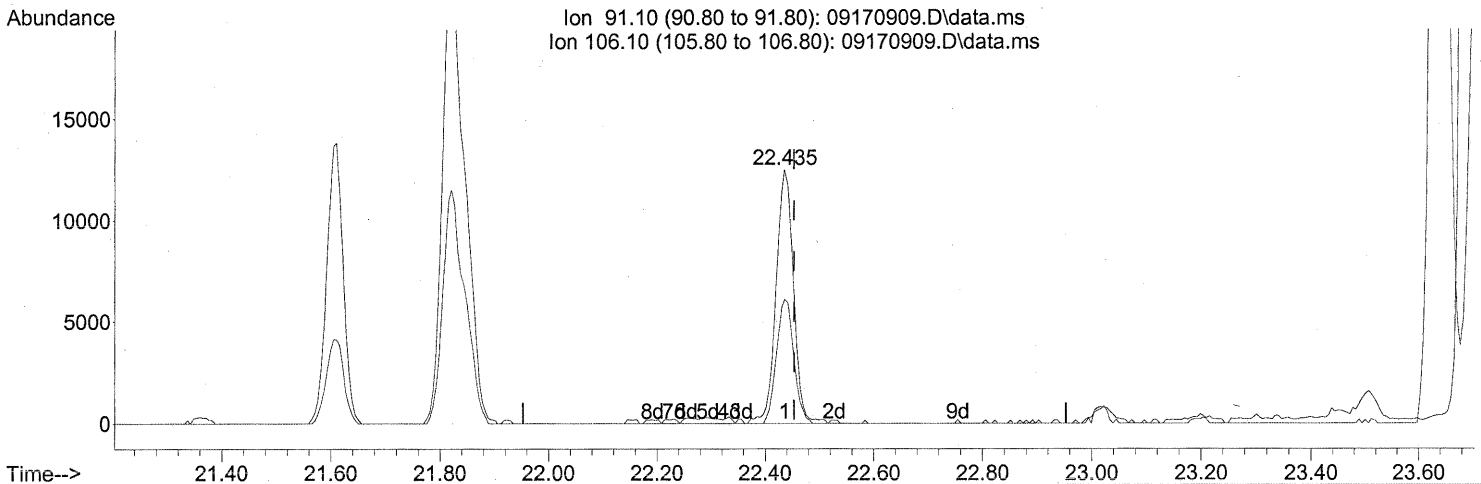
BEFORE SUBTRACTION

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(70) o-Xylene (T)

22.435min (-0.017) 0.60ng

response 27841

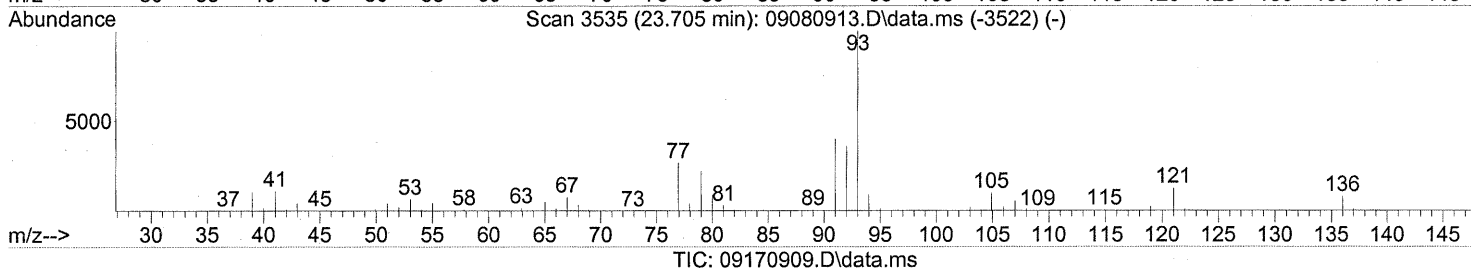
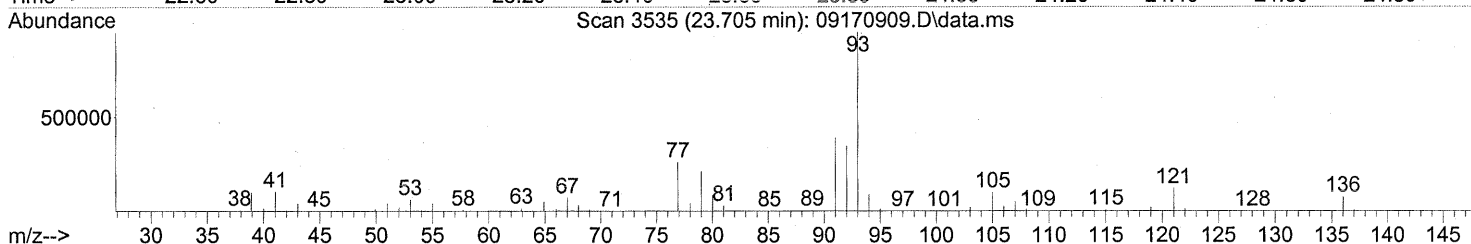
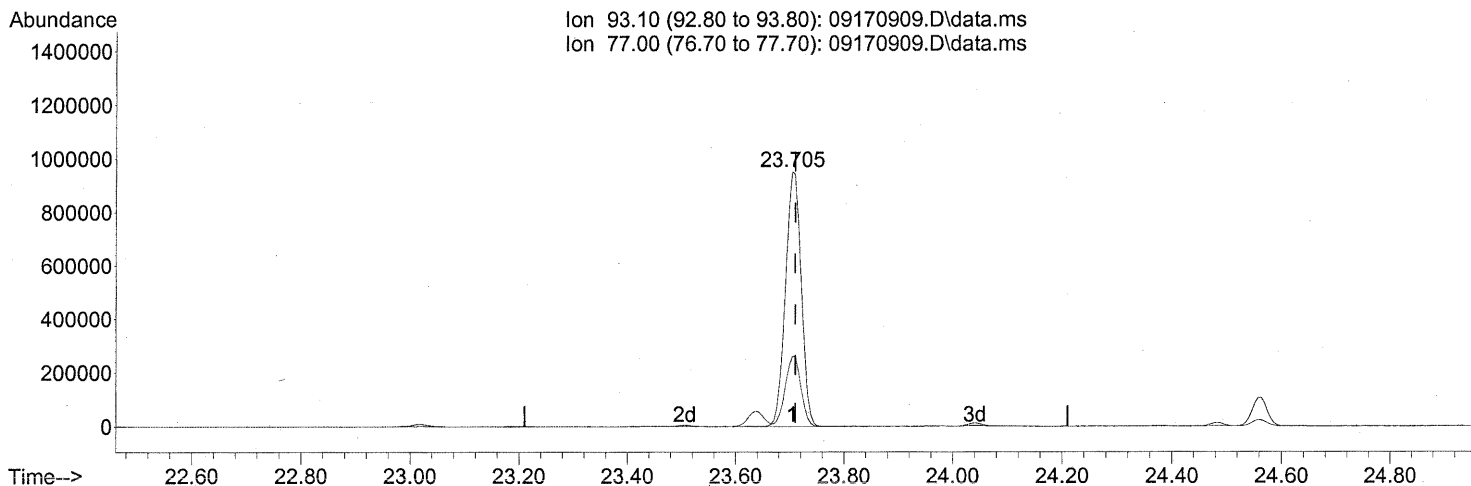
Ion	Exp%	Act%
91.10	100	100
106.10	45.80	48.28
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



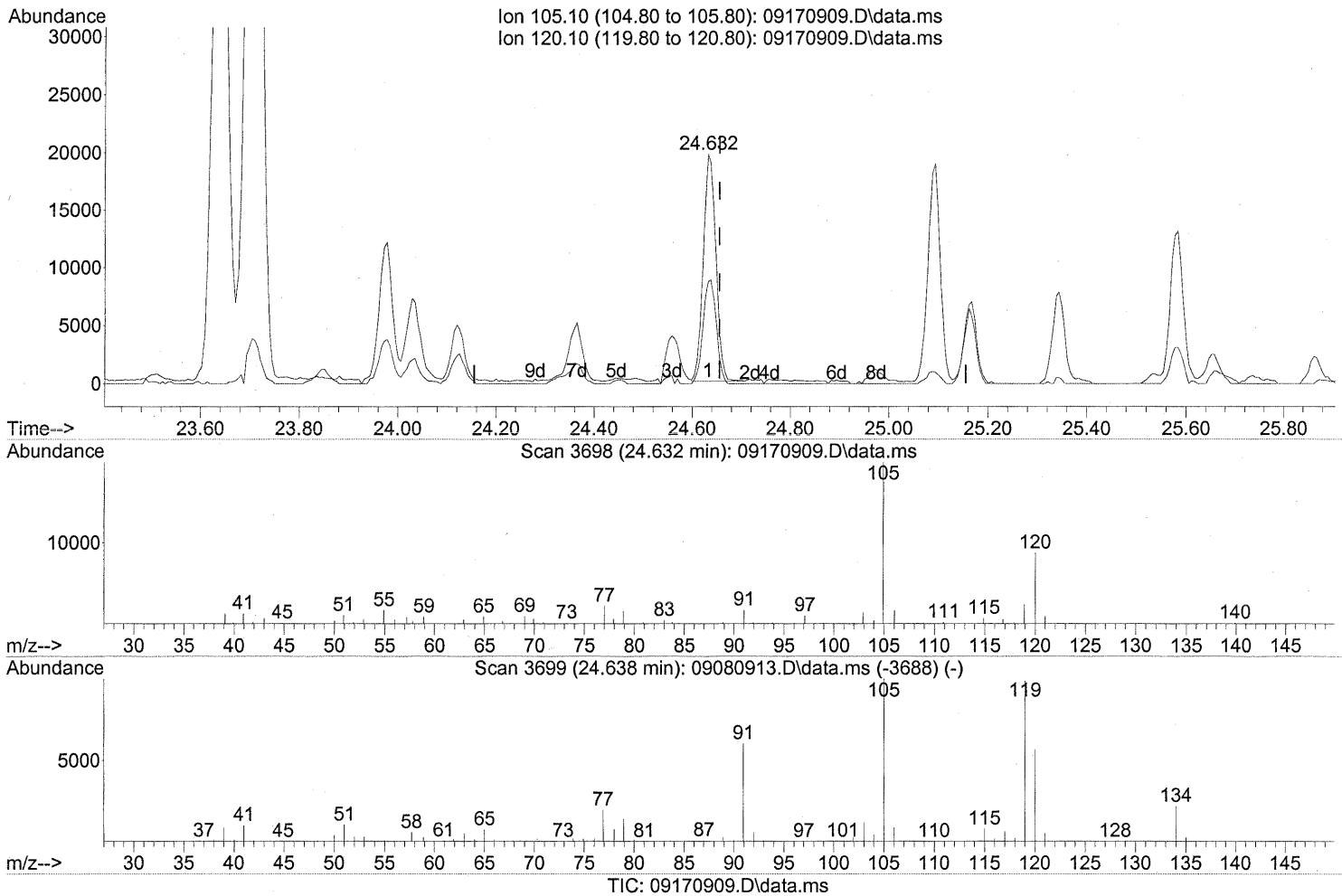
(75) alpha-Pinene (T)
 23.705min (-0.006) 63.56ng
 response 1906662

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.632min (-0.023) 0.66ng

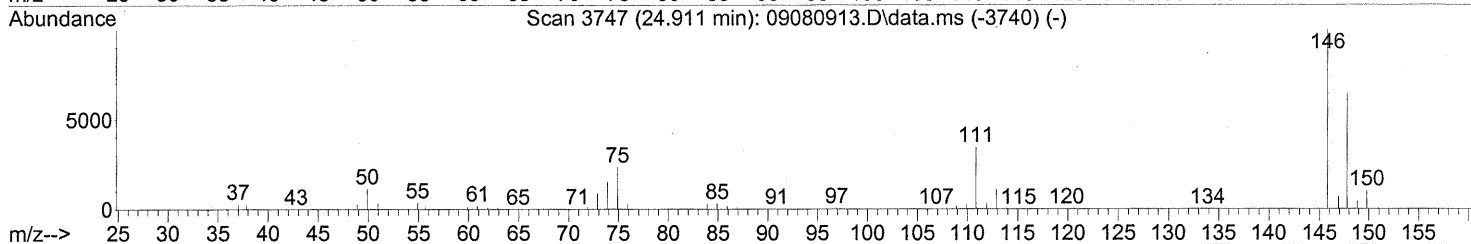
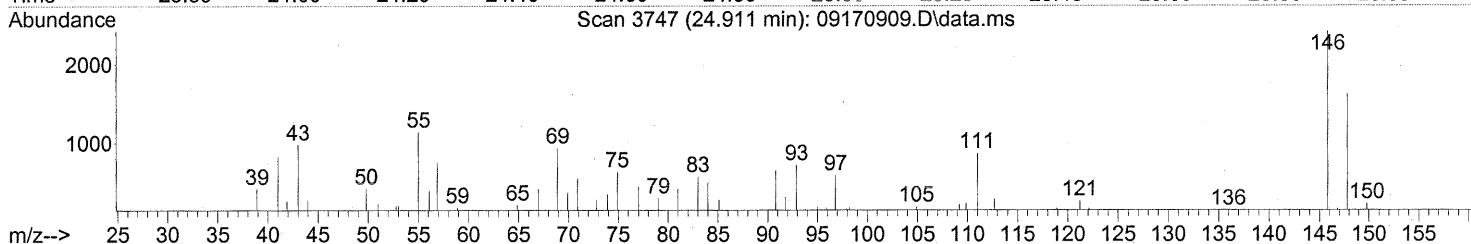
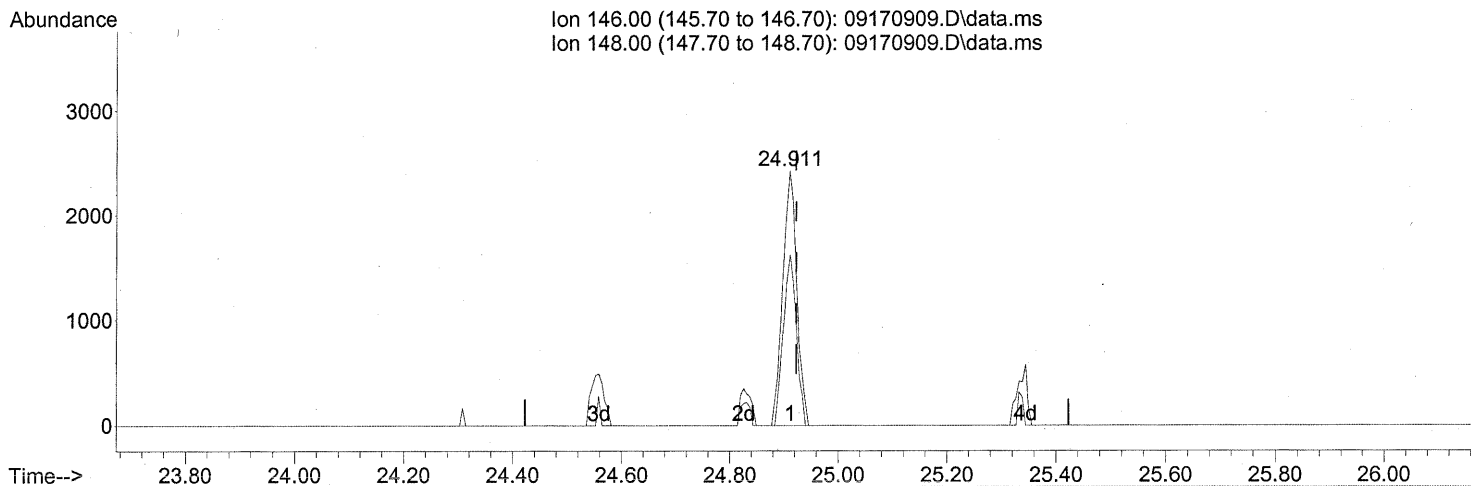
response 34855

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	47.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 17 14:12:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.14ng

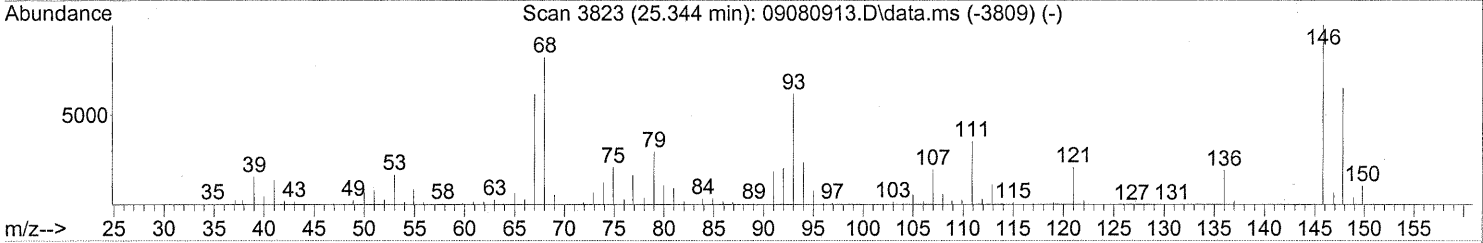
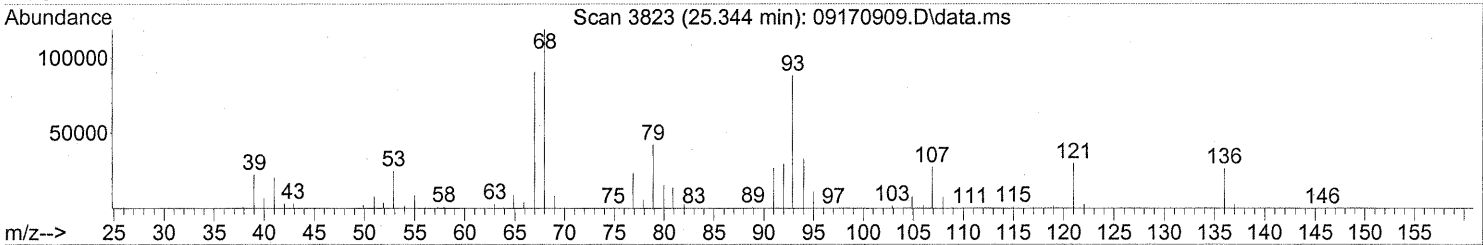
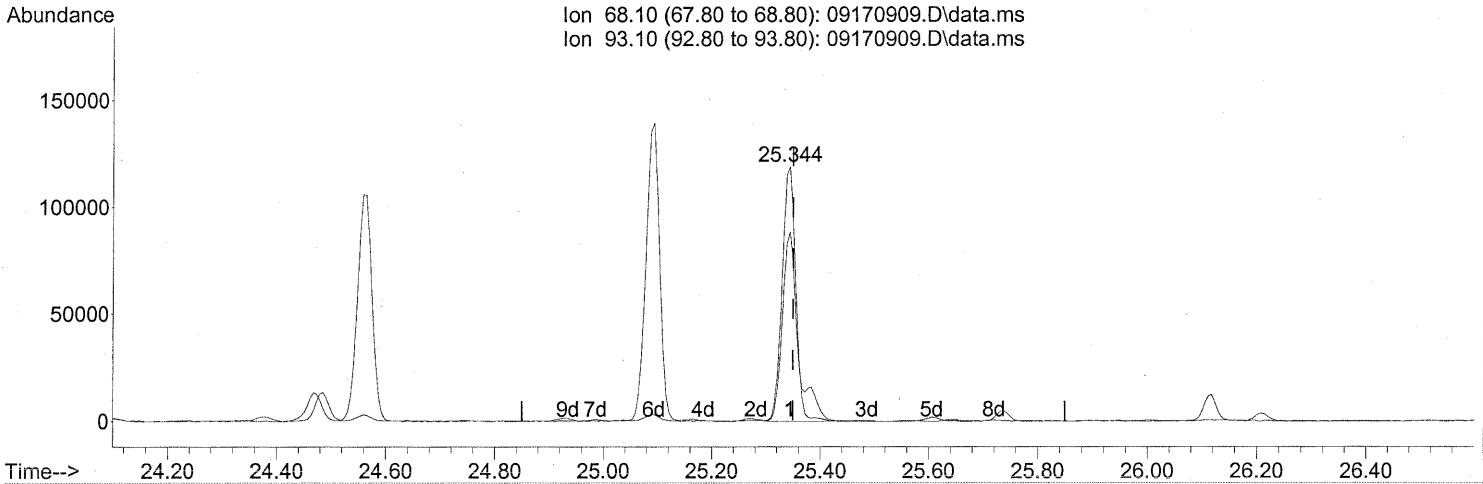
response 4370

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	61.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

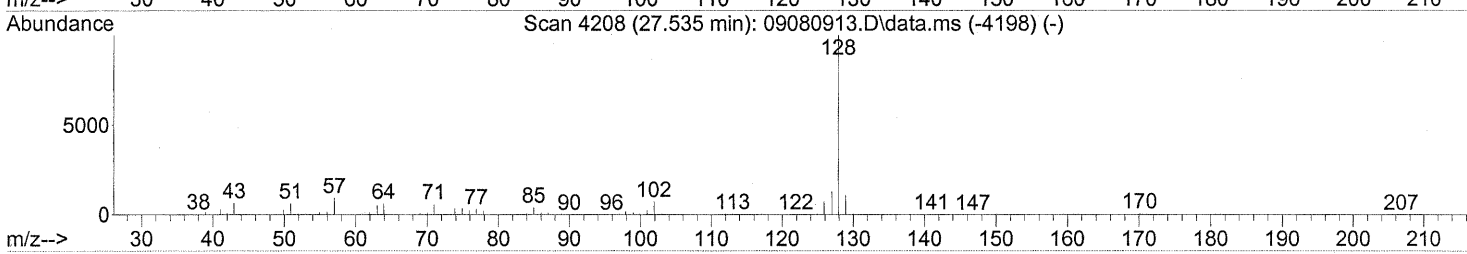
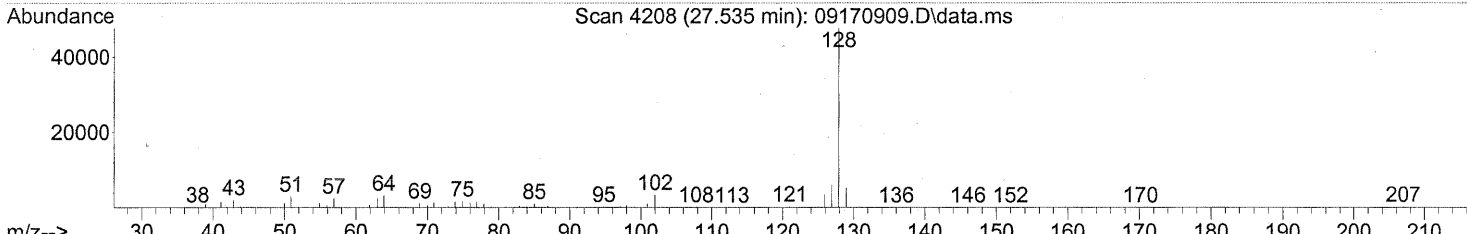
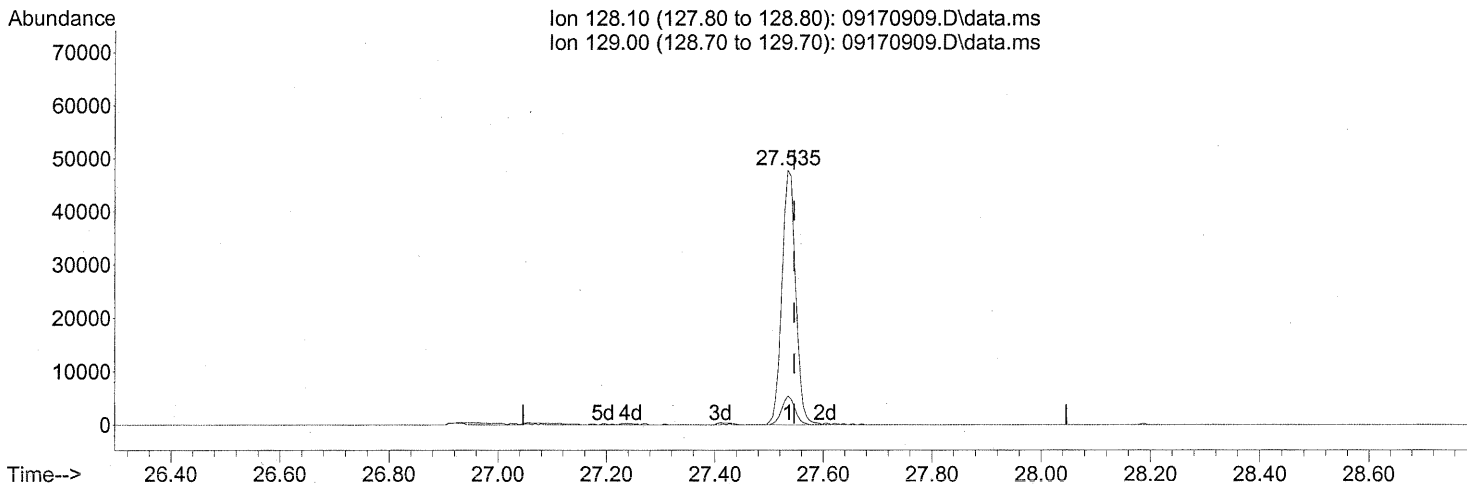
(91) d-Limonene (T)
 25.344min (-0.006) 10.87ng
 response 206395

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	86.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170909.D
 Acq On : 17 Sep 2009 12:43
 Operator : LH
 Sample : P0903145-014 (1000mL)
 Misc : Environmental H & E 102828
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 18 11:00:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170909.D\data.ms

(95) Naphthalene (T)

27.535min (-0.011) 1.10ng

response 84600

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.86
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102829
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01347

CAS Project ID: P0903145
CAS Sample ID: P0903145-015

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	2.5	0.61	1.5	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.61	0.59	0.12	
74-87-3	Chloromethane	ND	0.12	ND	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	340	6.1	180	3.2	
75-05-8	Acetonitrile	16	0.61	9.8	0.36	
107-02-8	Acrolein	6.5	0.61	2.8	0.26	
67-64-1	Acetone	83	6.1	35	2.5	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.2	0.61	3.7	0.25	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.73	0.12	0.096	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	10	6.1	2.9	1.7	
78-93-3	2-Butanone (MEK)	5.0	0.61	1.7	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **674**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102829
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01347

CAS Project ID: P0903145
CAS Sample ID: P0903145-015
Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	6.5	0.61	1.8	0.17	
110-54-3	n-Hexane	ND	0.61	ND	0.17	
67-66-3	Chloroform	2.1	0.12	0.42	0.025	
109-99-9	Tetrahydrofuran (THF)	ND	0.61	ND	0.21	
107-06-2	1,2-Dichloroethane	0.83	0.12	0.20	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.022	
71-43-2	Benzene	0.39	0.12	0.12	0.038	
56-23-5	Carbon Tetrachloride	0.63	0.12	0.10	0.019	
110-82-7	Cyclohexane	ND	0.61	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.026	
75-27-4	Bromodichloromethane	0.45	0.12	0.067	0.018	
79-01-6	Trichloroethene	0.13	0.12	0.024	0.023	
123-91-1	1,4-Dioxane	ND	0.61	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.61	ND	0.15	
142-82-5	n-Heptane	ND	0.61	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.61	ND	0.13	
108-10-1	4-Methyl-2-pentanone	1.0	0.61	0.25	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.61	ND	0.13	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.022	
108-88-3	Toluene	5.2	0.61	1.4	0.16	
591-78-6	2-Hexanone	1.2	0.61	0.28	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	2.0	0.61	0.42	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102829
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01347

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.62	0.61	0.13	0.13	
127-18-4	Tetrachloroethene	1.9	0.12	0.28	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.026	
100-41-4	Ethylbenzene	0.66	0.61	0.15	0.14	
179601-23-1	m,p-Xylenes	1.8	0.61	0.42	0.14	
75-25-2	Bromoform	ND	0.61	ND	0.059	
100-42-5	Styrene	1.4	0.61	0.32	0.14	
95-47-6	o-Xylene	0.77	0.61	0.18	0.14	
111-84-2	n-Nonane	ND	0.61	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.61	ND	0.12	
80-56-8	alpha-Pinene	83	0.61	15	0.11	
103-65-1	n-Propylbenzene	ND	0.61	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.61	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	0.88	0.61	0.18	0.12	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	0.15	0.12	0.025	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	15	0.61	2.6	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.61	ND	0.063	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	ND	0.082	
91-20-3	Naphthalene	1.2	0.61	0.22	0.12	
87-68-3	Hexachlorobutadiene	ND	0.61	ND	0.057	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

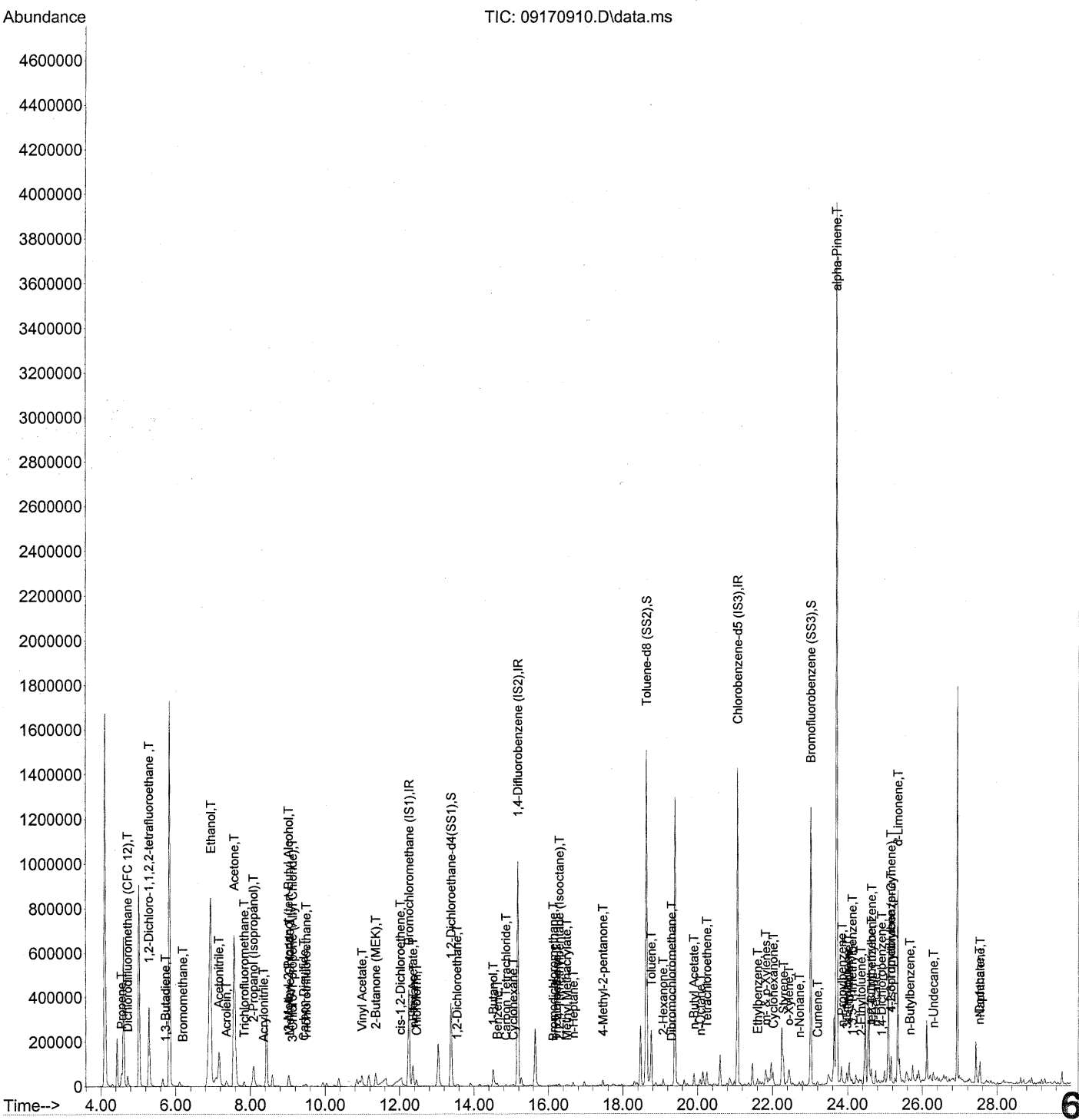
9/22/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:32:09 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829 ✓ ✓
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:32:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

M 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.25	130	281244	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.17	114	1350936	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	575501	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	374054	24.134	ng	-0.03
Spiked Amount	25.000			Recovery =	96.52%	✓
57) Toluene-d8 (SS2)	18.63	98	1408049	24.442	ng	-0.01
Spiked Amount	25.000			Recovery =	97.76%	✓
73) Bromofluorobenzene (SS3)	23.02	174	554733	26.872	ng	0.00
Spiked Amount	25.000			Recovery =	107.48%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	24024	2.098	ng	91
3) Dichlorodifluoromethan...	4.73	85	52699	2.407	ng	100
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1284	0.098	ng	70
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.73	54	681	0.057	ng	# 65
8) Bromomethane	6.20	94	743	0.065	ng	86
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.94	45	2341808m	282.059	ng	
11) Acetonitrile	7.17	41	285522	13.597	ng	100
12) Acrolein	7.36	56	33195	5.374	ng	100
13) Acetone	7.57	58	576105	68.877	ng	# 82
14) Trichlorofluoromethane	7.84	101	24269	1.197	ng	100
15) 2-Propanol (Isopropanol)	8.09	45	218971m	7.601	ng	
16) Acrylonitrile	8.36	53	1054	0.065	ng	99
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.02	59	16308	0.548	ng	# 1
19) Methylene Chloride	9.05	84	3181	0.249	ng	# 76
20) 3-Chloro-1-propene (Al...	9.12	41	790	0.053	ng	# 40
21) Trichlorotrifluoroethane	9.49	151	6070	0.607	ng	# 80
22) Carbon Disulfide	9.43	76	16065	0.363	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.85	73	818	N.D.		
26) Vinyl Acetate	10.99	86	20895	8.295	ng	# 1
27) 2-Butanone (MEK)	11.36	72	33007	4.108	ng	# 3
28) cis-1,2-Dichloroethene	12.02	61	873	0.057	ng	# 13
29) Diisopropyl Ether	12.35	87	81	N.D.		
30) Ethyl Acetate	12.36	61	21775	5.338	ng	96
31) n-Hexane	12.37	57	6573	0.407	ng	96

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:32:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	12.45	83	33631	1.697 ng	100
34) Tetrahydrofuran (THF)	0.00	72	0	N.D. d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.54	62	9364	0.685 ng	100
38) 1,1,1-Trichloroethane	13.92	97	808	N.D.	
39) Isopropyl Acetate	14.51	61	357	N.D.	
40) 1-Butanol	14.52	56	78307	6.425 ng	81
41) Benzene	14.63	78	15578	0.323 ng	98
42) Carbon Tetrachloride	14.86	117	7522	0.519 ng	100
43) Cyclohexane	15.05	84	4948	0.281 ng	91
44) tert-Amyl Methyl Ether	15.56	73	108	N.D.	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	
46) Bromodichloromethane	16.13	83	5557	0.373 ng	95
47) Trichloroethene	16.22	130	1521	0.105 ng	98
48) 1,4-Dioxane	16.19	88	250	N.D.	
49) 2,2,4-Trimethylpentane...	16.29	57	8999	0.185 ng	75
50) Methyl Methacrylate	16.49	100	1516	0.274 ng	# 75
51) n-Heptane	16.66	71	5561	0.452 ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	17.47	58	9098	0.847 ng	87
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d	
58) Toluene	18.76	91	232343	4.320 ng	99
59) 2-Hexanone	19.08	43	24828	0.957 ng	100
60) Dibromochloromethane	19.31	129	770	0.057 ng	97
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	19.91	43	48474	1.633 ng	94
63) n-Octane	20.08	57	5135	0.509 ng	95
64) Tetrachloroethene	20.25	166	26218	1.579 ng	99
65) Chlorobenzene	21.13	112	617	N.D.	
66) Ethylbenzene	21.60	91	32032	0.542 ng	97
67) m- & p-Xylenes	21.82	91	69744	1.511 ng	96
68) Bromoform	21.92	173	232	N.D.	
69) Styrene	22.29	104	42590	1.123 ng	95
70) o-Xylene	22.44	91	29961	0.635 ng	95
71) n-Nonane	22.71	43	7229	0.316 ng	96
72) 1,1,2,2-Tetrachloroethane	22.42	83	245	N.D.	
74) Cumene	23.20	105	6211	0.096 ng	98
75) alpha-Pinene	23.70	93	2084540	68.720 ng	95
76) n-Propylbenzene	23.85	91	11291	0.150 ng	# 59
77) 3-Ethyltoluene	23.98	105	25066	0.411 ng	98
78) 4-Ethyltoluene	24.03	105	15417	0.256 ng	93
79) 1,3,5-Trimethylbenzene	24.13	105	10215	0.204 ng	9

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:32:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

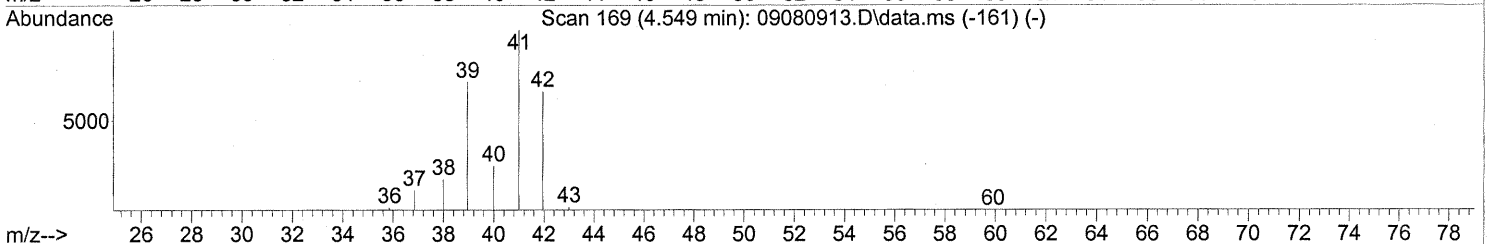
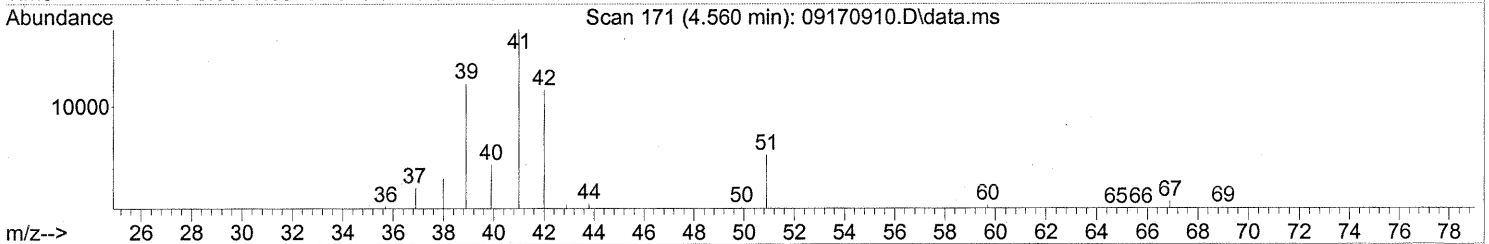
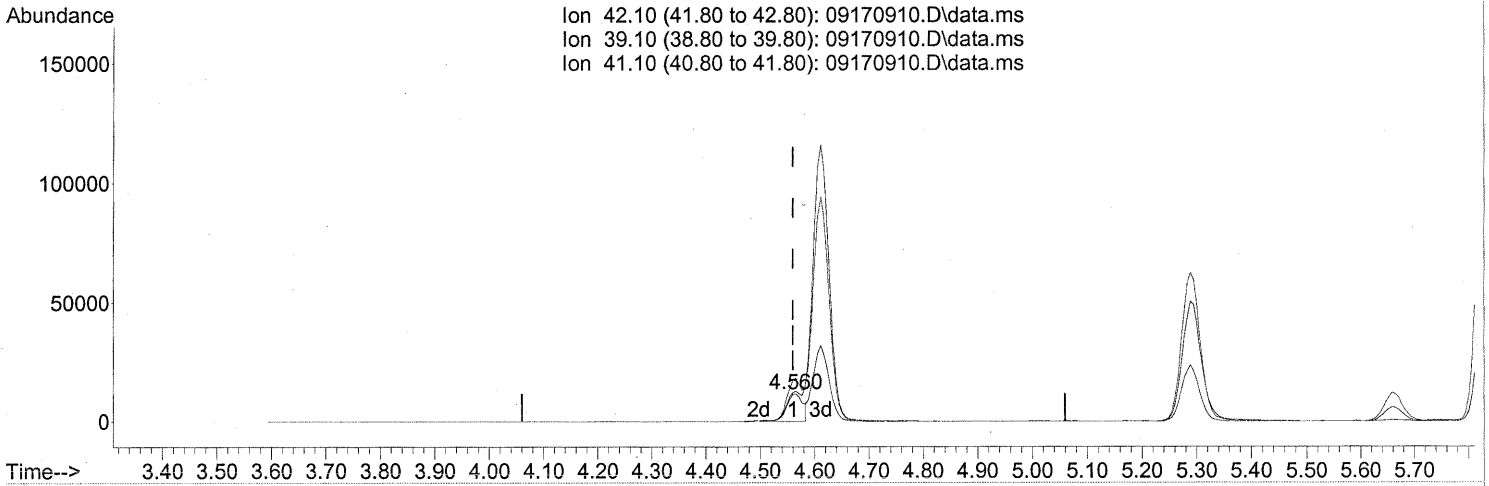
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	996	N.D.		
81) 2-Ethyltoluene	24.36	105	11559	0.181 ng		93
82) 1,2,4-Trimethylbenzene	24.64	105	38712	0.724 ng		90
83) n-Decane	24.75	57	22883	0.817 ng		89
84) Benzyl Chloride	24.80	91	1187	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	266	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	4018	0.124 ng		98
87) sec-Butylbenzene	24.97	105	2134	N.D.		
88) 4-Isopropyltoluene (p-...	25.16	119	68542	1.010 ng		92
89) 1,2,3-Trimethylbenzene	25.16	105	13965	0.267 ng	#	54
90) 1,2-Dichlorobenzene	25.34	146	211	N.D.		
91) d-Limonene	25.34	68	232244	12.091 ng		80
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	15239	0.472 ng		75
94) 1,2,4-Trichlorobenzene	27.40	180	445	N.D.		
95) Naphthalene	27.53	128	75537	0.973 ng		100
96) n-Dodecane	27.52	57	14444	0.454 ng		86
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.02	55	32752	1.646 ng	#	91
99) tert-Butylbenzene	24.63	119	5237	0.099 ng	#	55
100) n-Butylbenzene	25.67	91	8039	0.150 ng	#	59

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(2) Propene (T)

4.560min (+0.000) 2.10ng

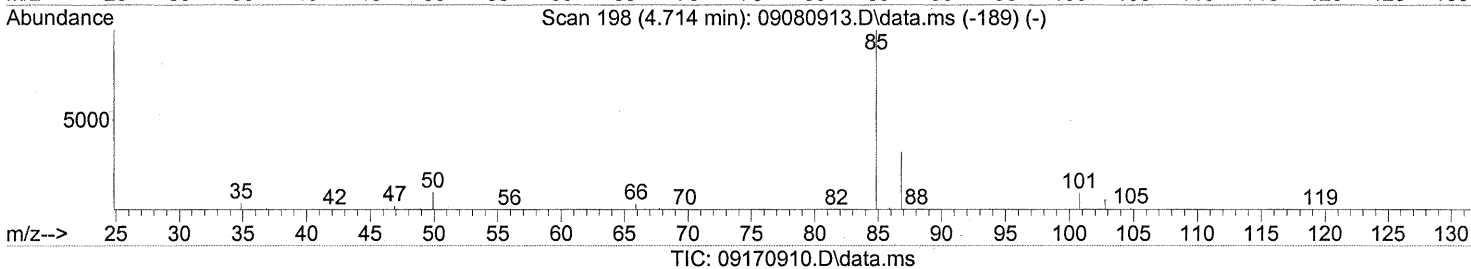
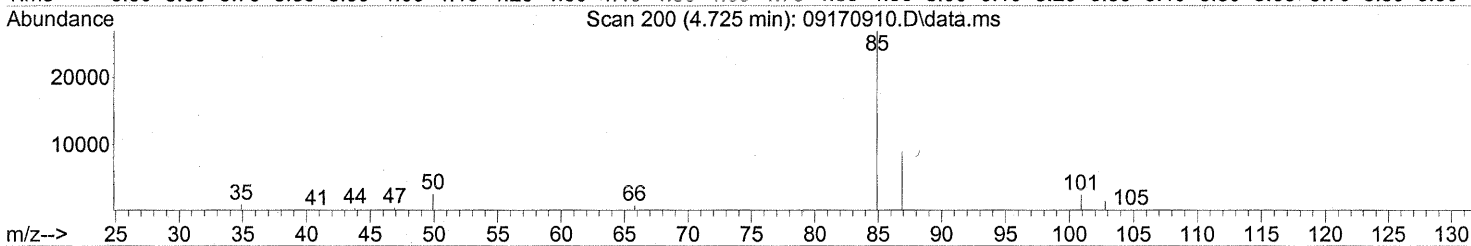
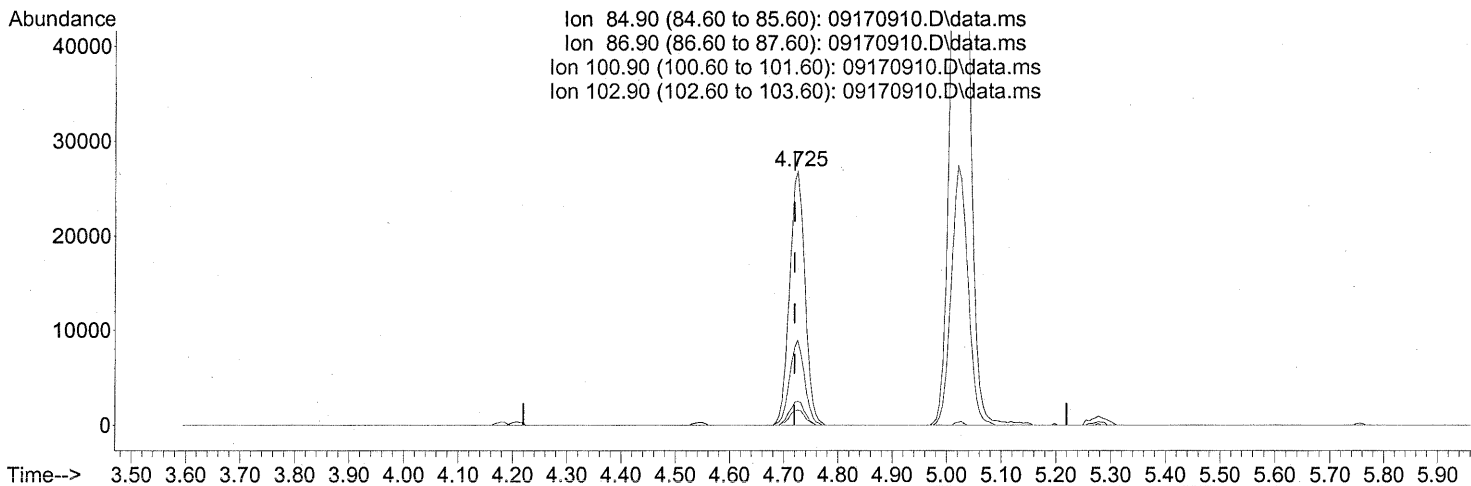
response 24024

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	101.23
41.10	152.10	140.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.725min (+0.006) 2.41ng

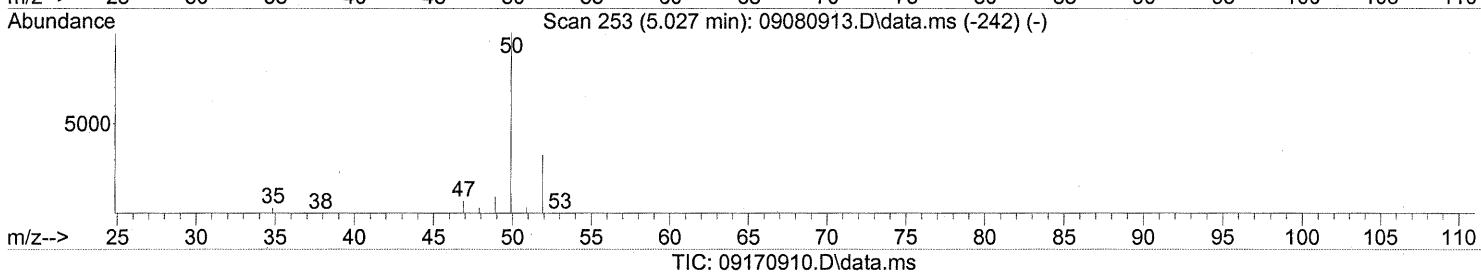
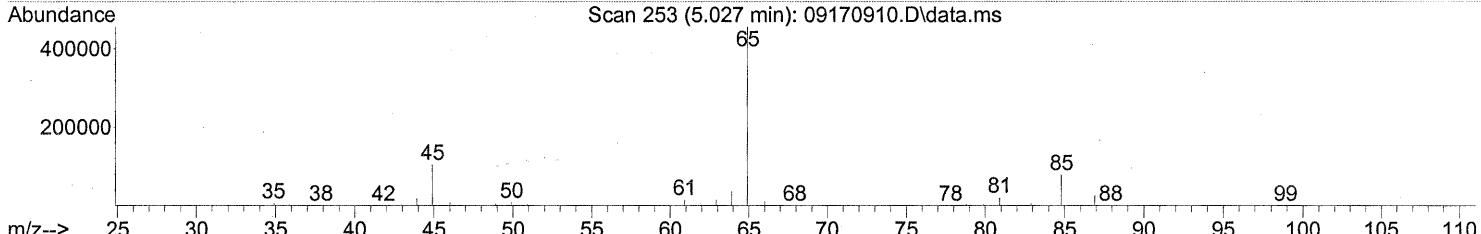
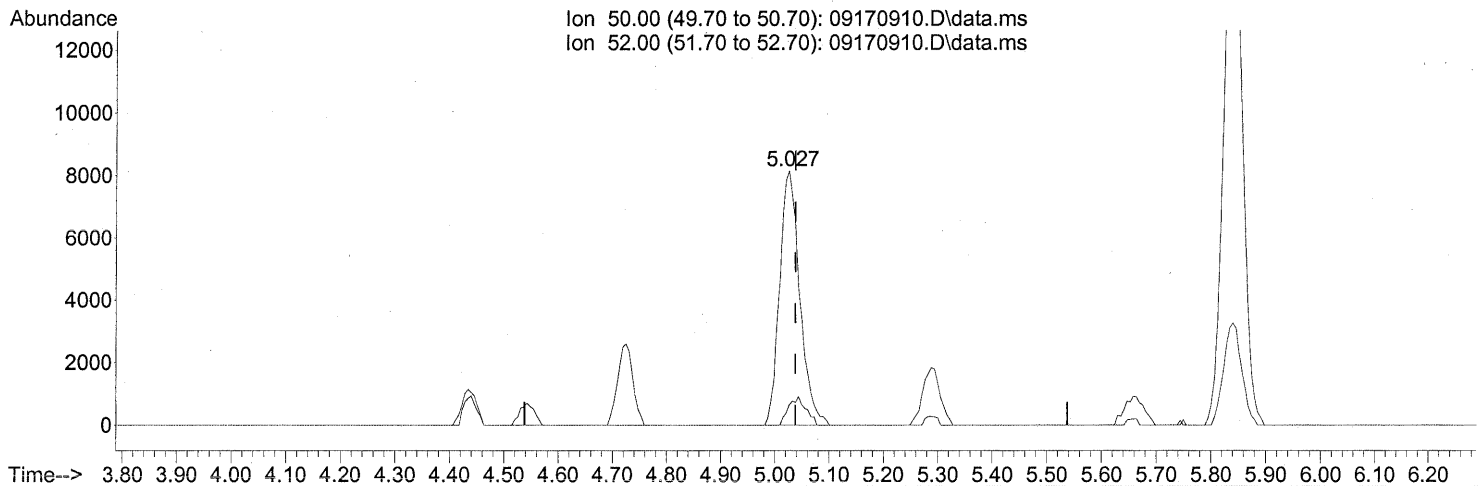
response 52699

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.71
100.90	8.60	9.36
102.90	5.90	5.99

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.027min (-0.011) 1.17ng
 response 20906

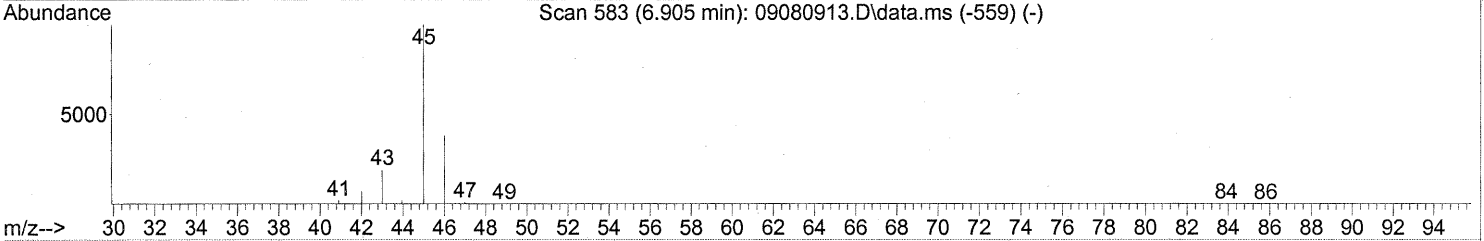
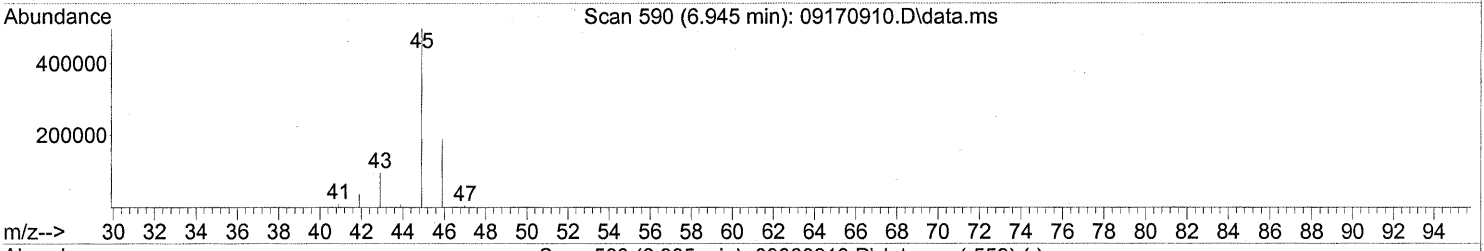
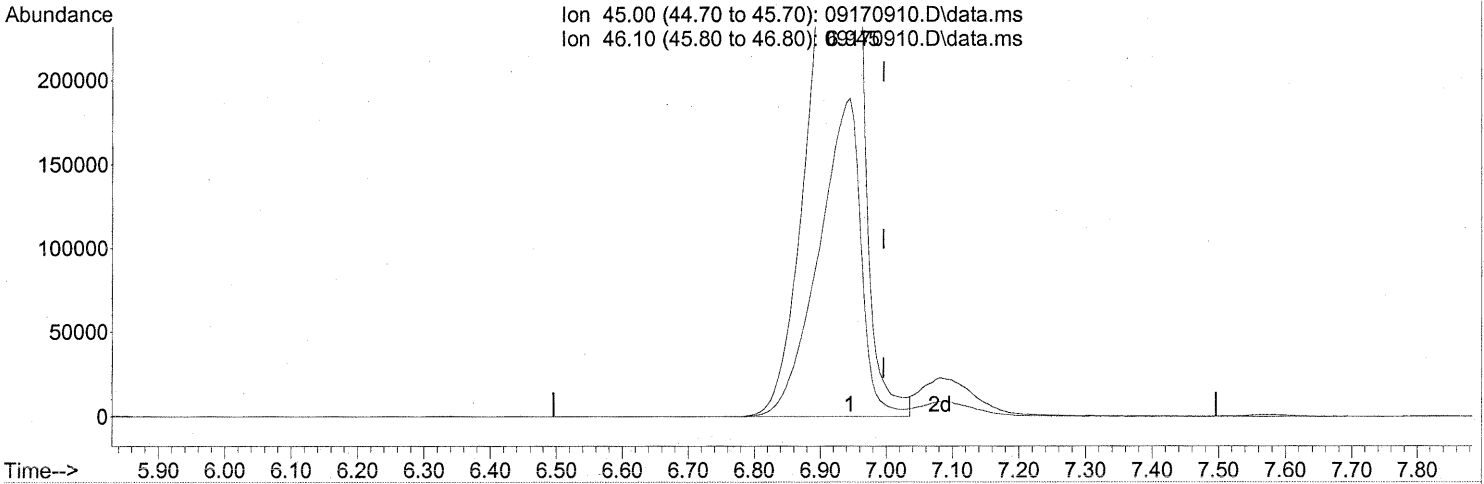
FP LH 9/21/09
can 9/21/09

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	9.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.945min (-0.051) 266.35ng
 response 2211383

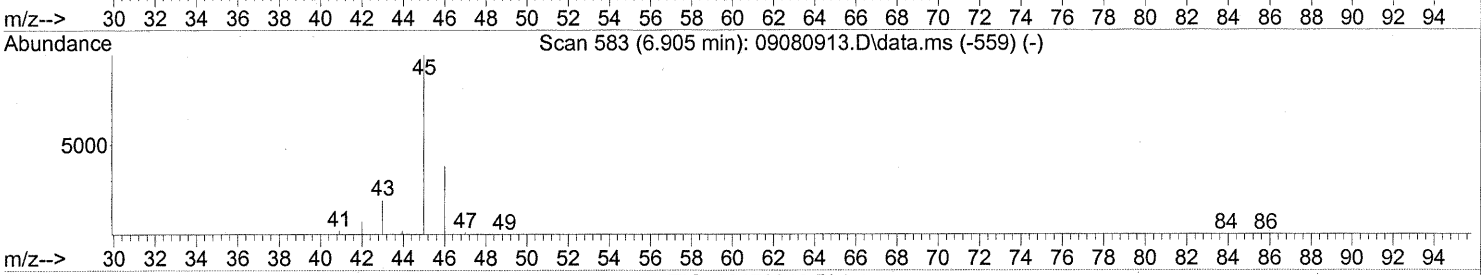
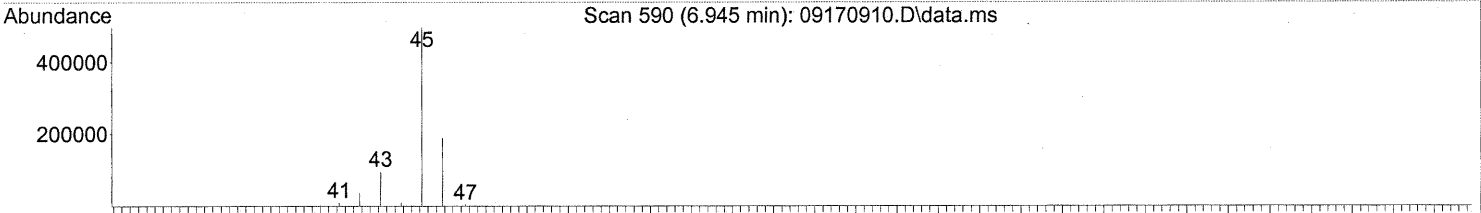
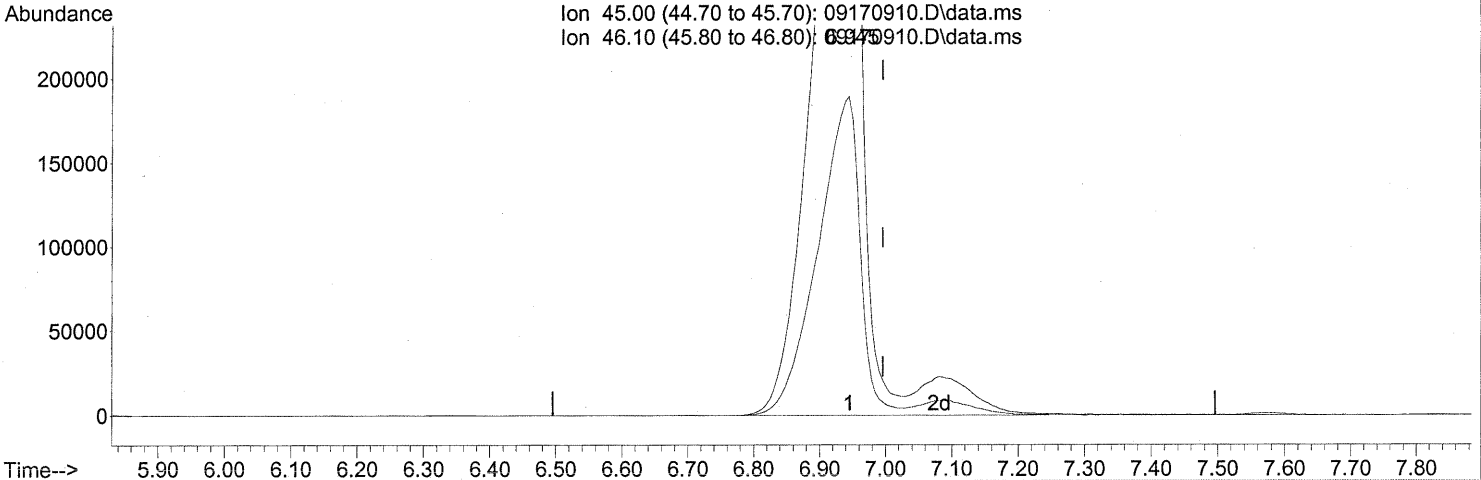
PT

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.945min (-0.051) 282.06ng m
 response 2341808

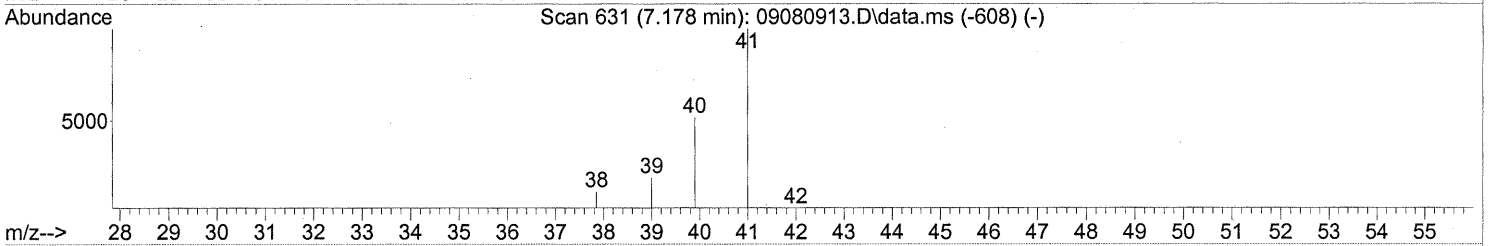
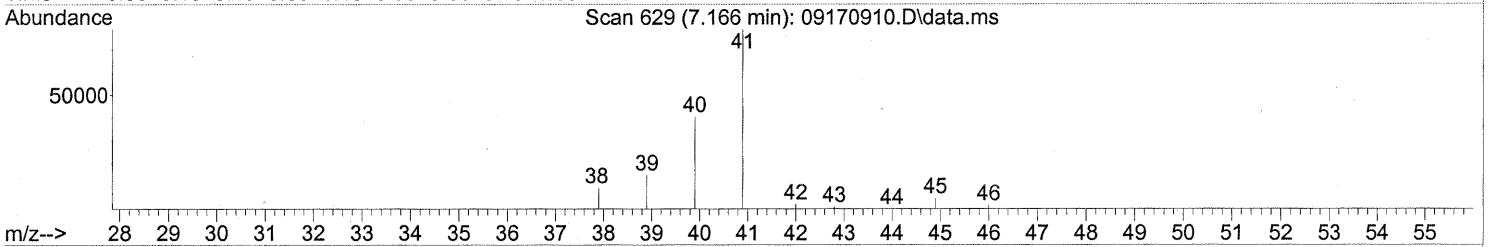
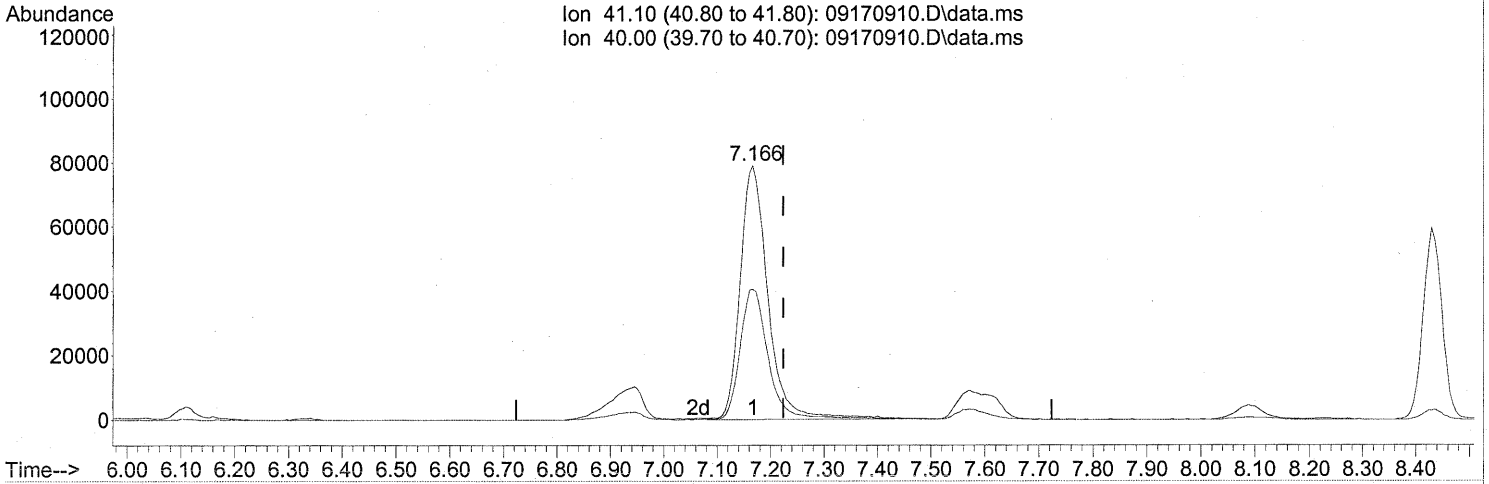
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	35.92
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 in 9/21/09
 Cam 9/21/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170910.D\data.ms

(11) Acetonitrile (T)

7.166min (-0.057) 13.60ng

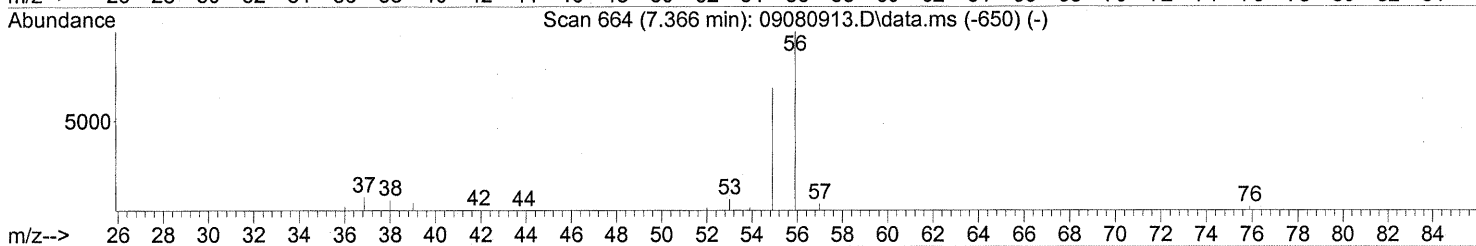
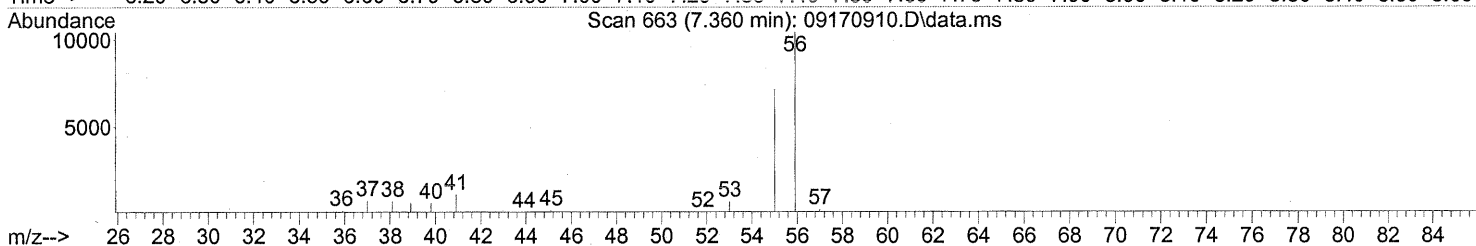
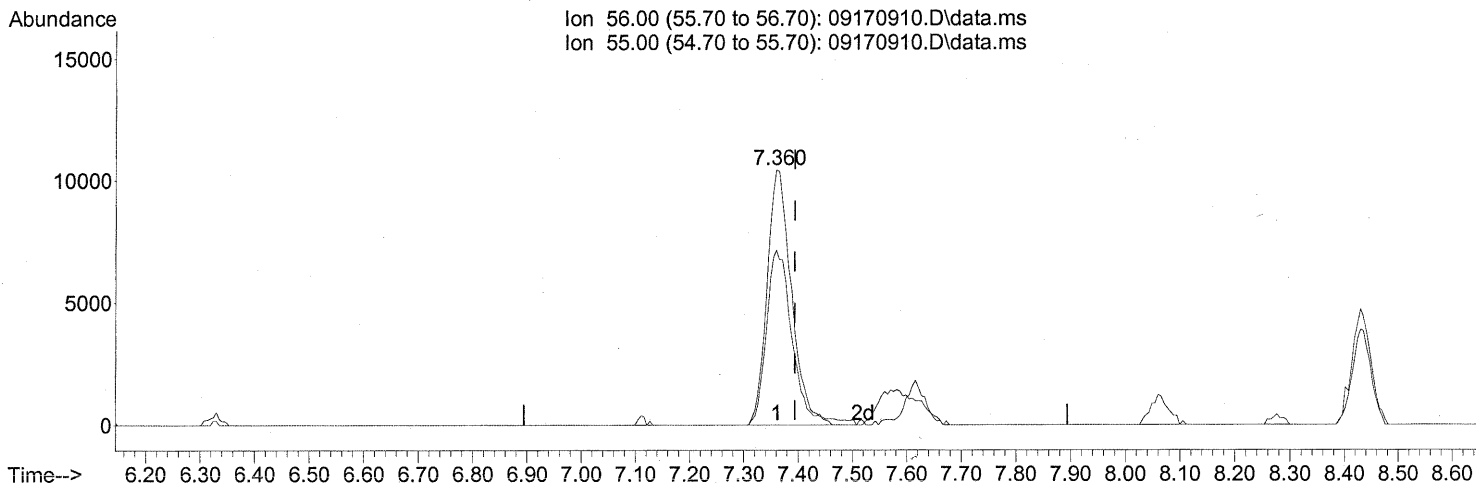
response 285522

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170910.D\data.ms

(12) Acrolein (T)

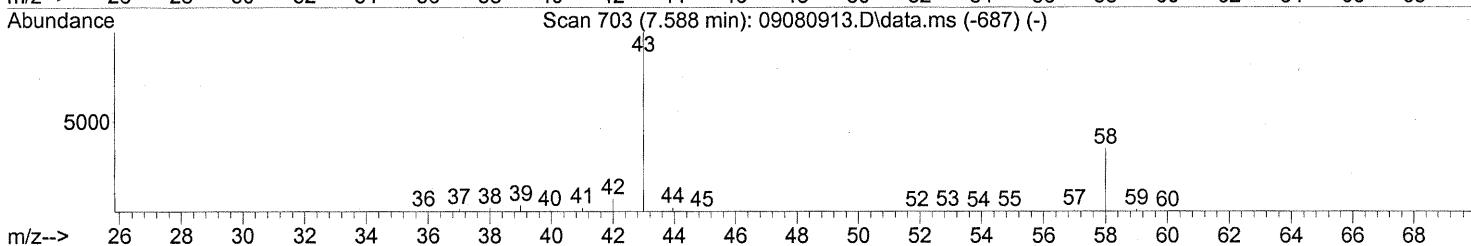
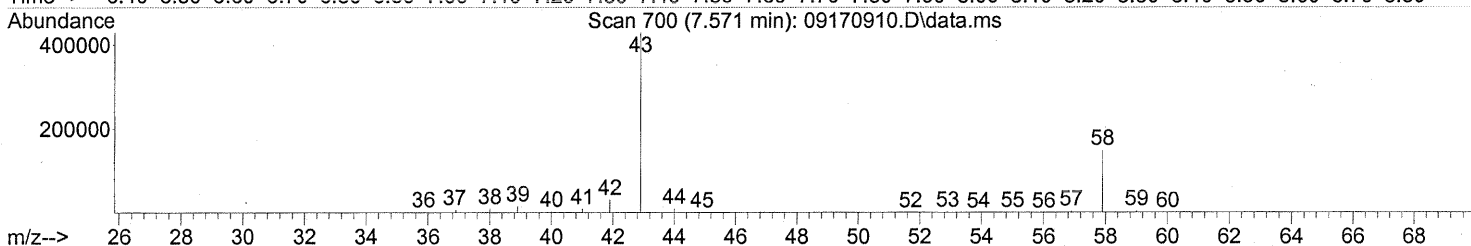
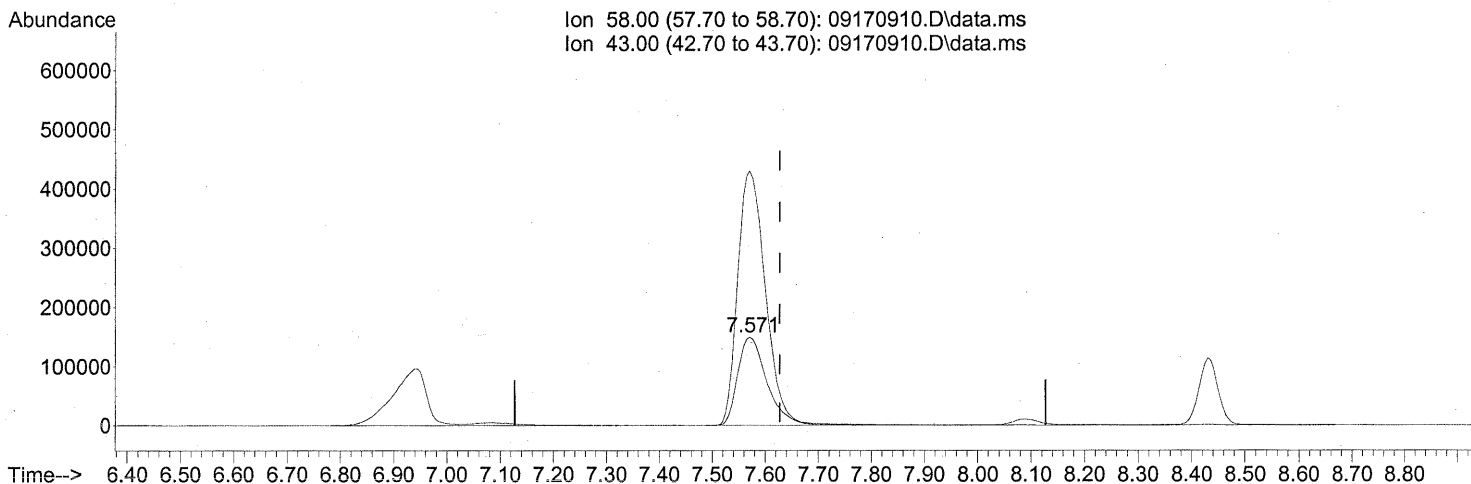
7.360min (-0.034) 5.37ng
response 33195

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	69.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



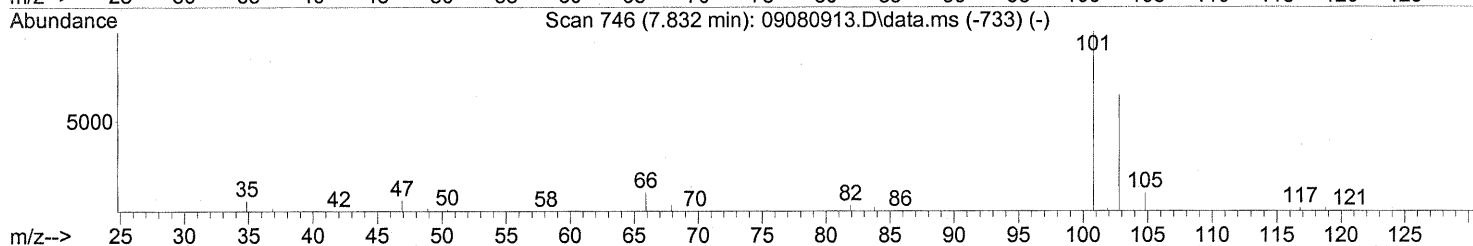
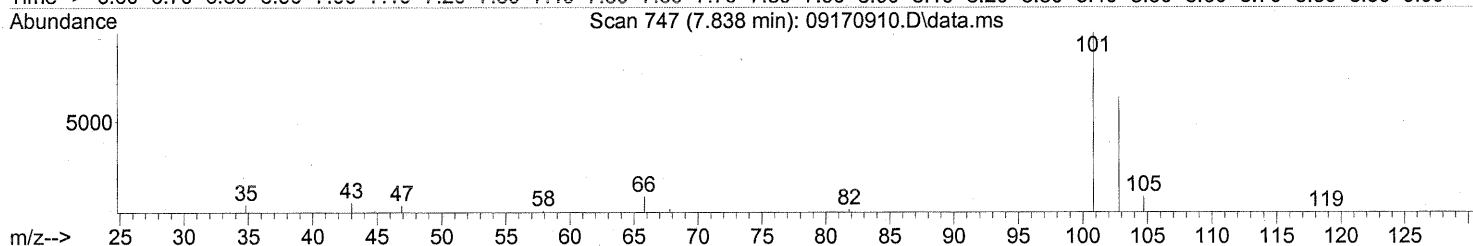
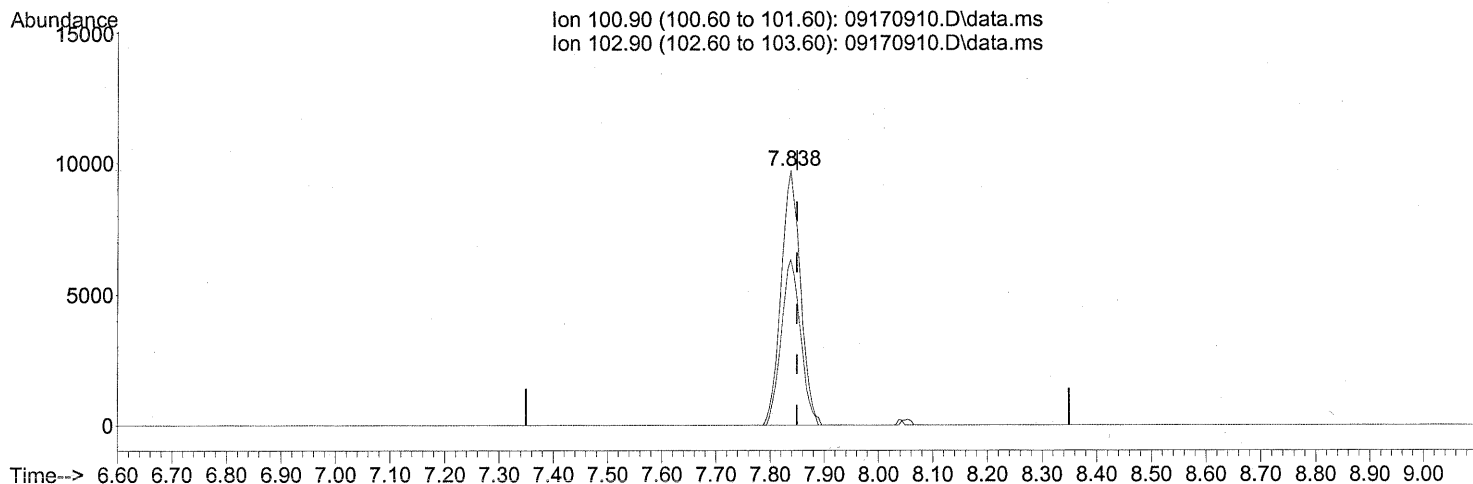
(13) Acetone (T)
 7.571min (-0.057) 68.88ng
 response 576105

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	274.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(14) Trichlorofluoromethane (T)

7.838min (-0.011) 1.20ng

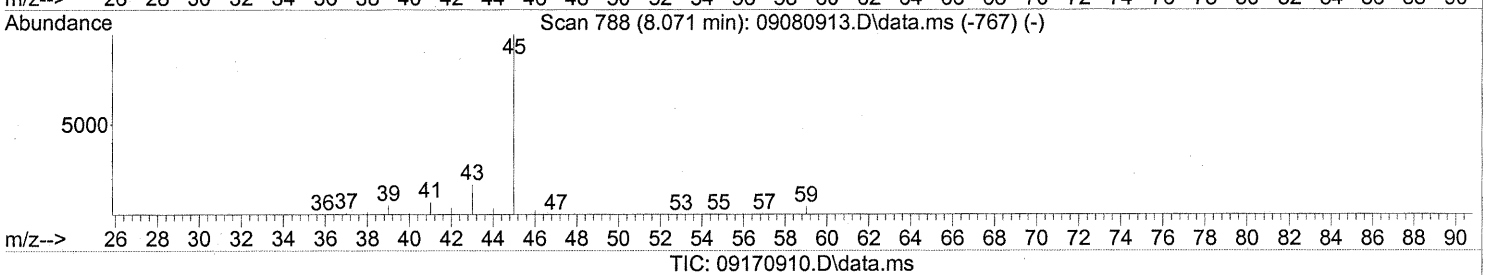
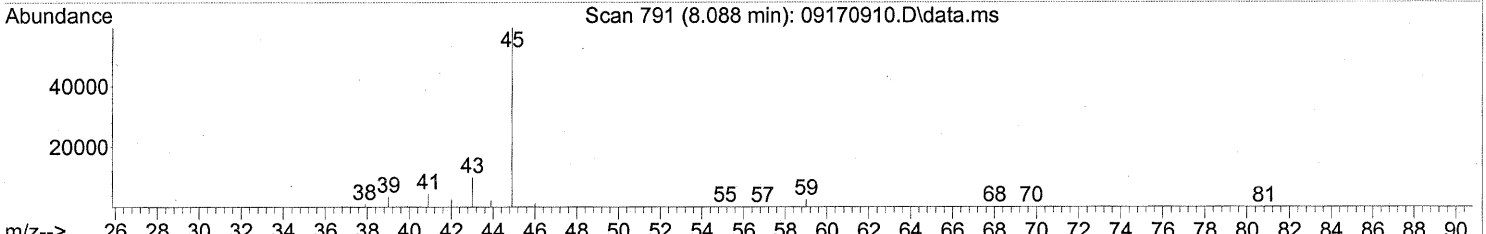
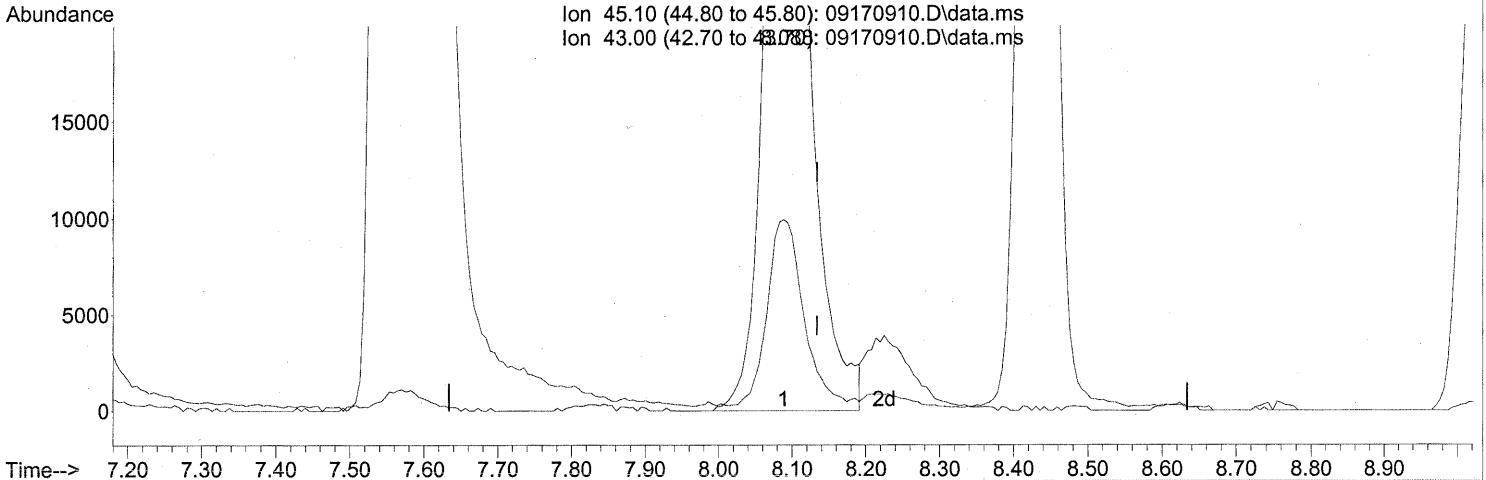
response 24269

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.088min (-0.045) 7.01ng

response 201919

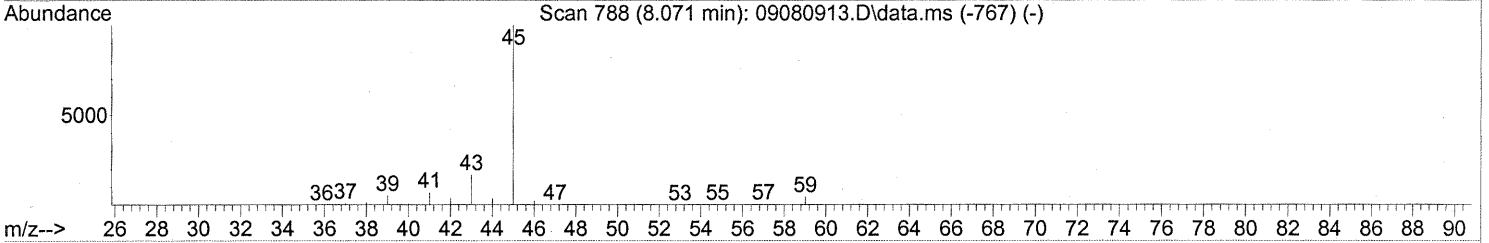
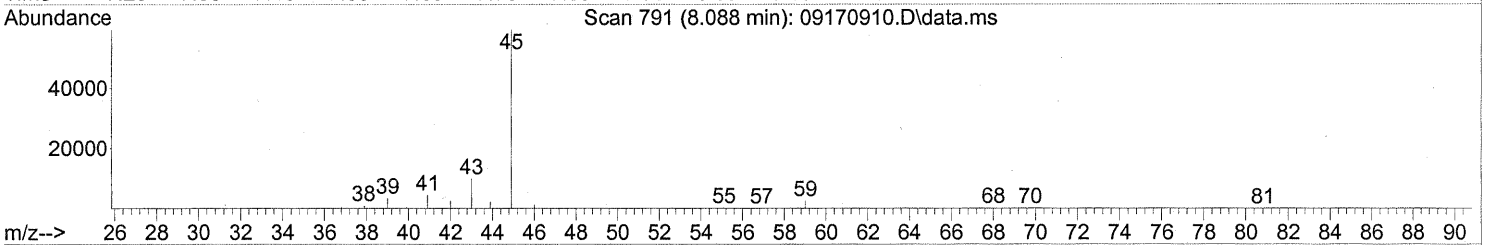
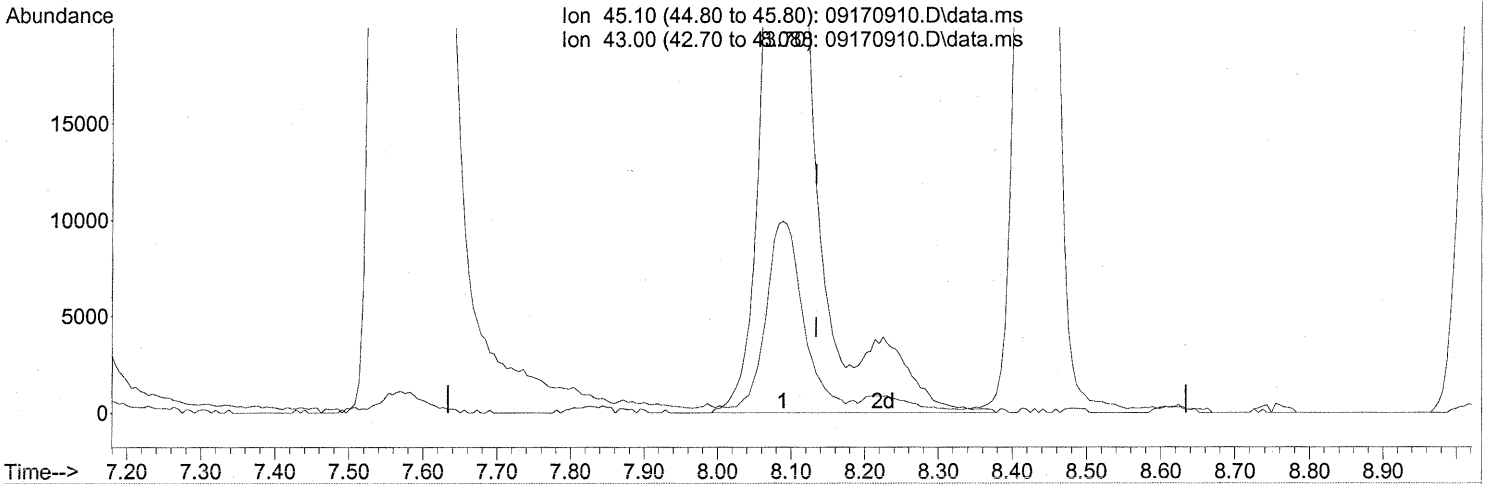
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.52
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.088min (-0.045) 7.60ng m

response 218971

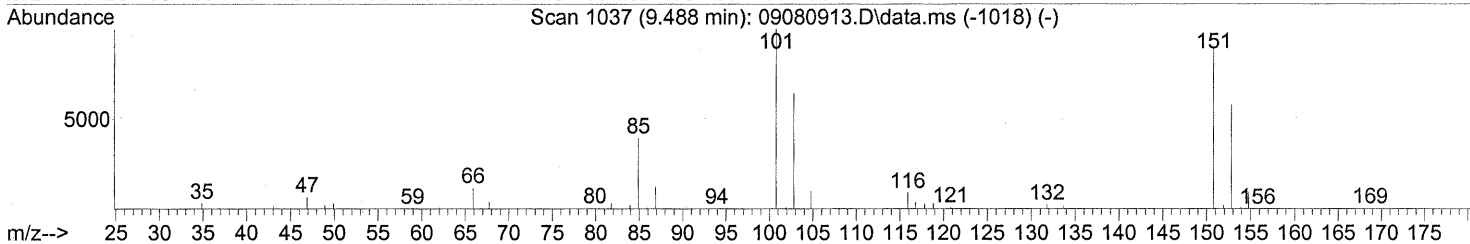
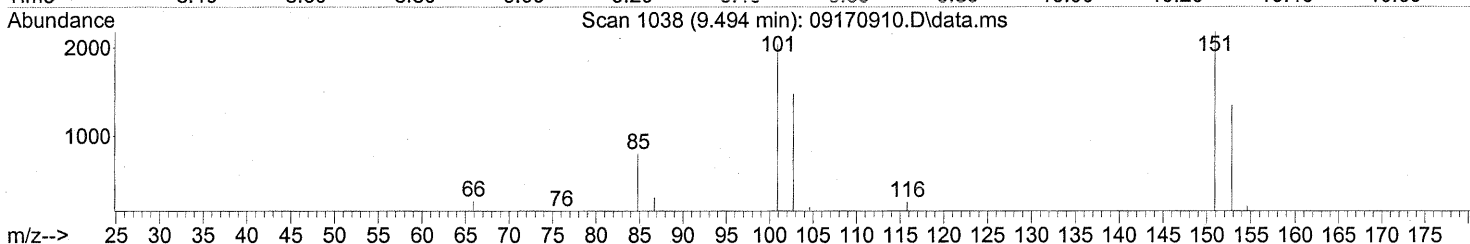
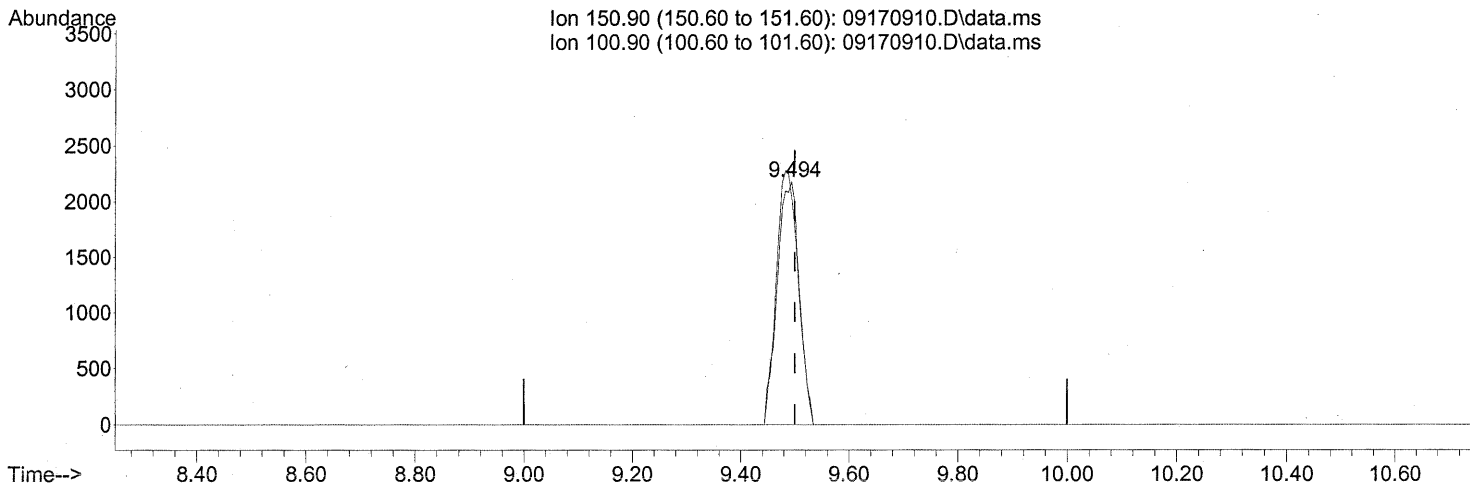
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.23
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
UH 9/21/09
em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.494min (-0.006) 0.61ng

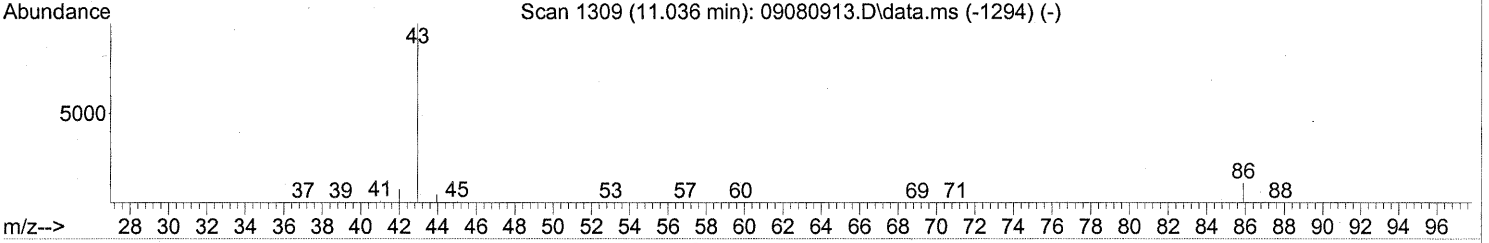
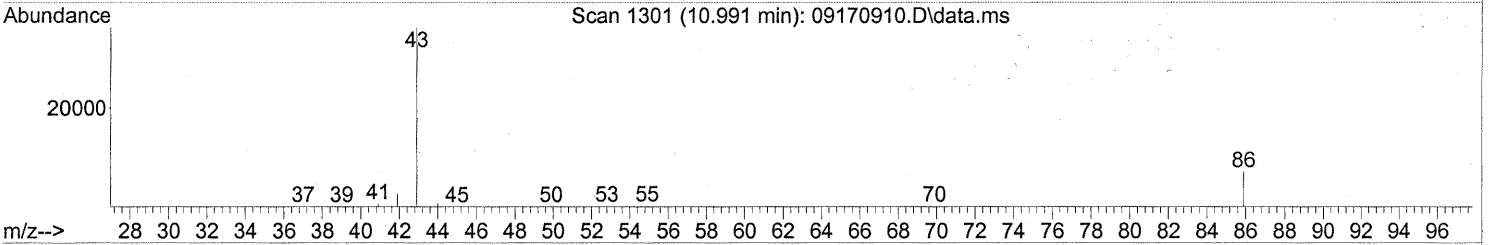
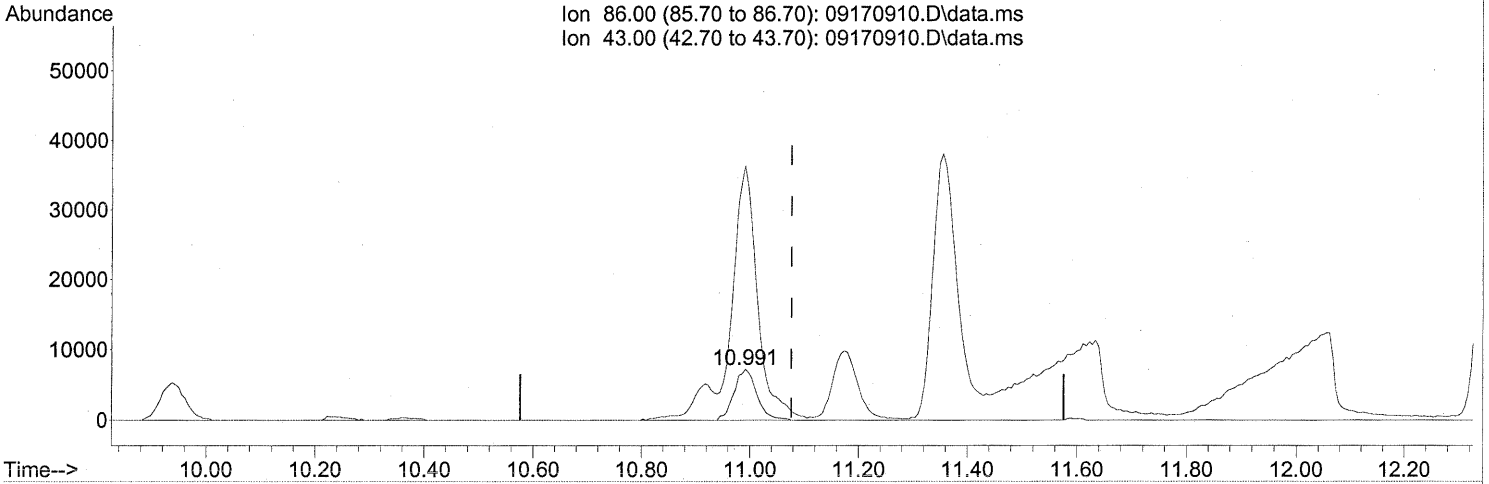
response 6070

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	105.27#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

10.991min (-0.085) 8.30ng

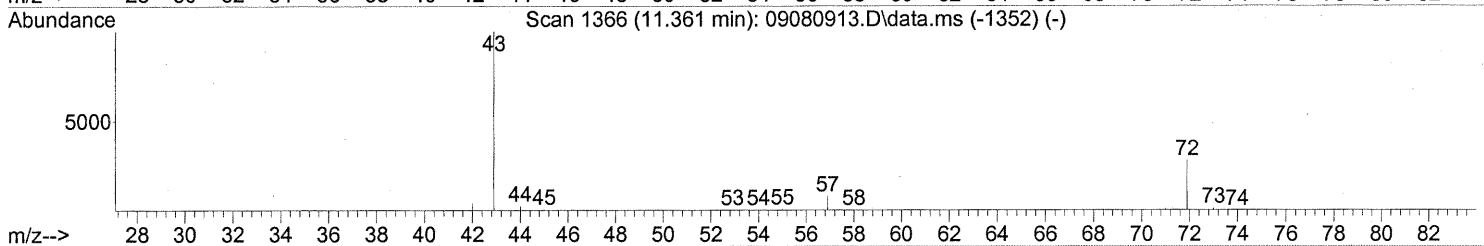
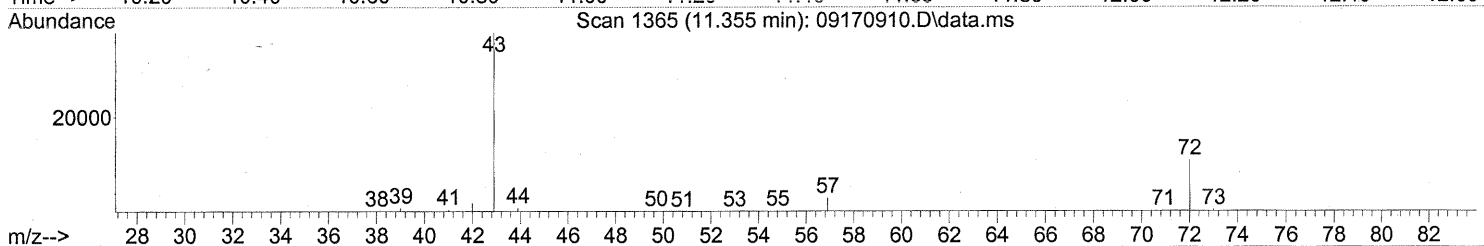
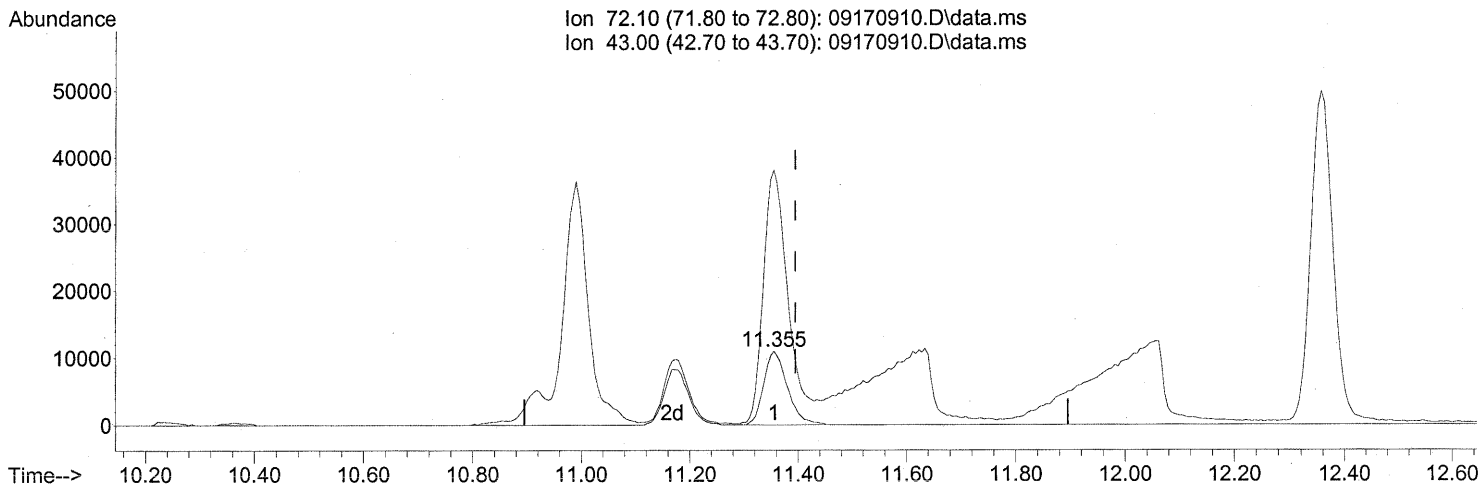
response 20895

Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	511.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(27) 2-Butanone (MEK) (T)

11.355min (-0.040) 4.11ng

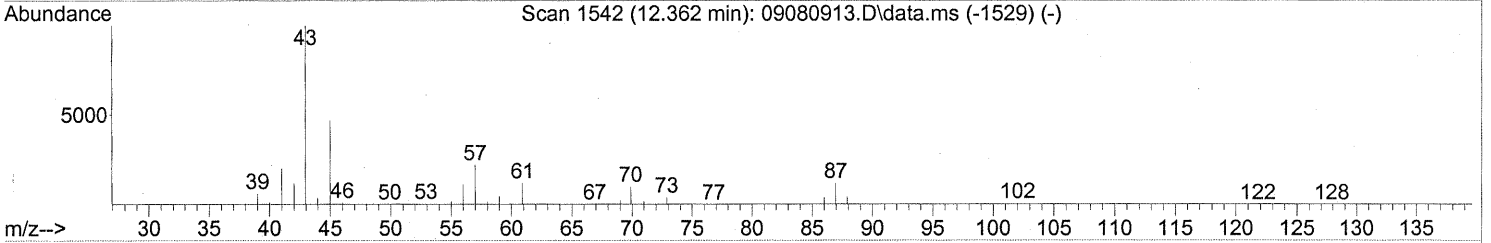
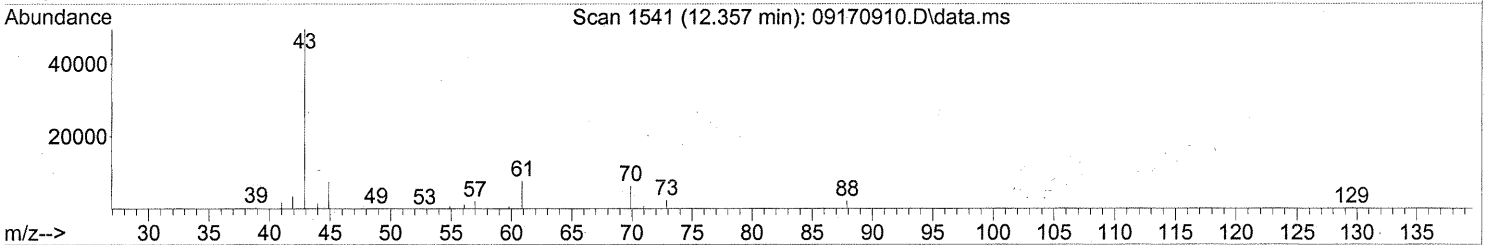
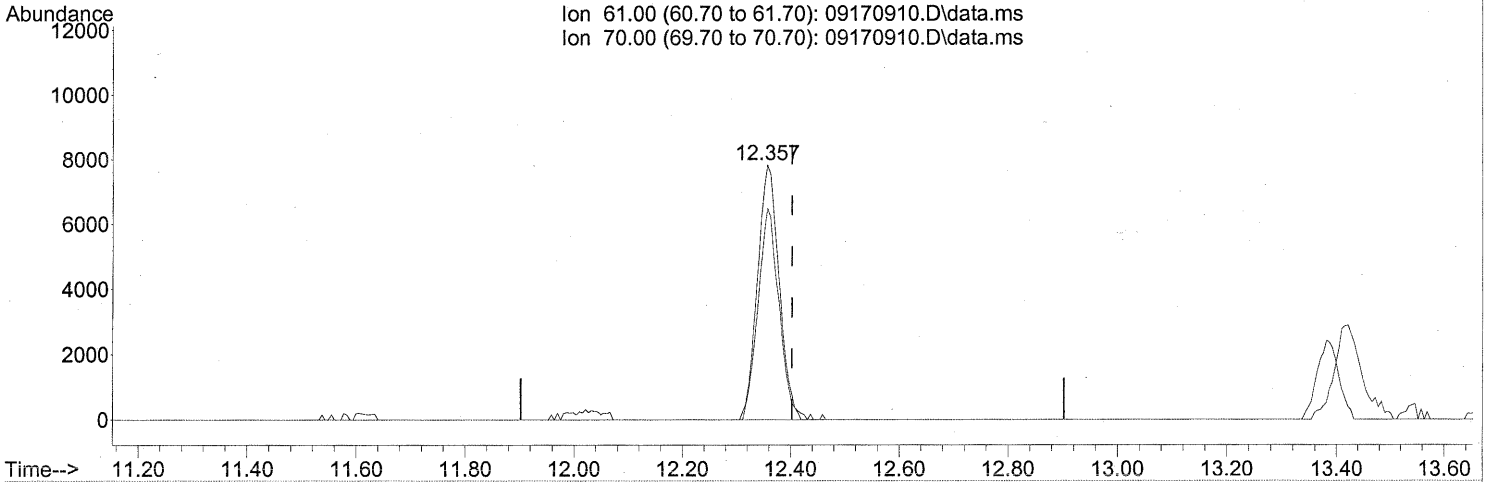
response 33007

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	660.49#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170910.D\data.ms

(30) Ethyl Acetate (T)

12.357min (-0.046) 5.34ng

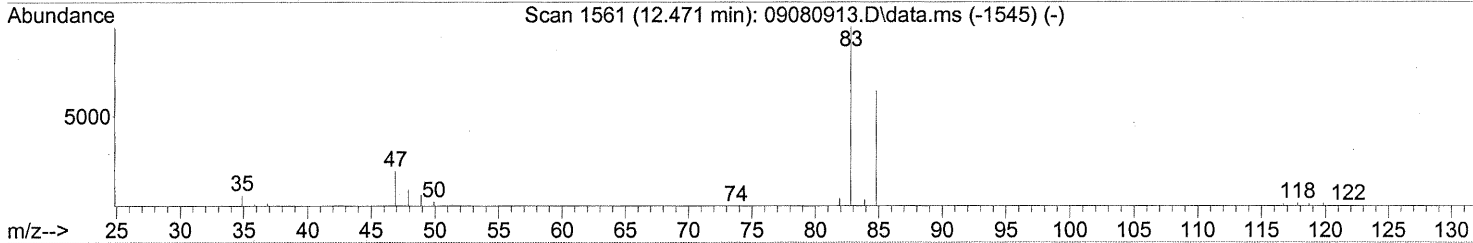
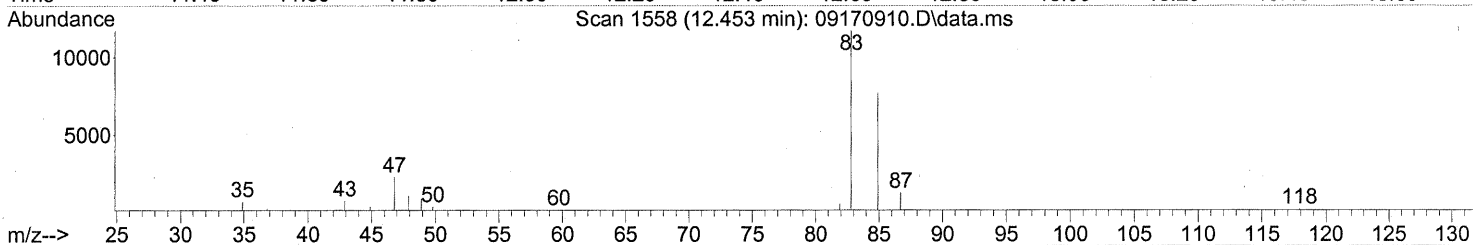
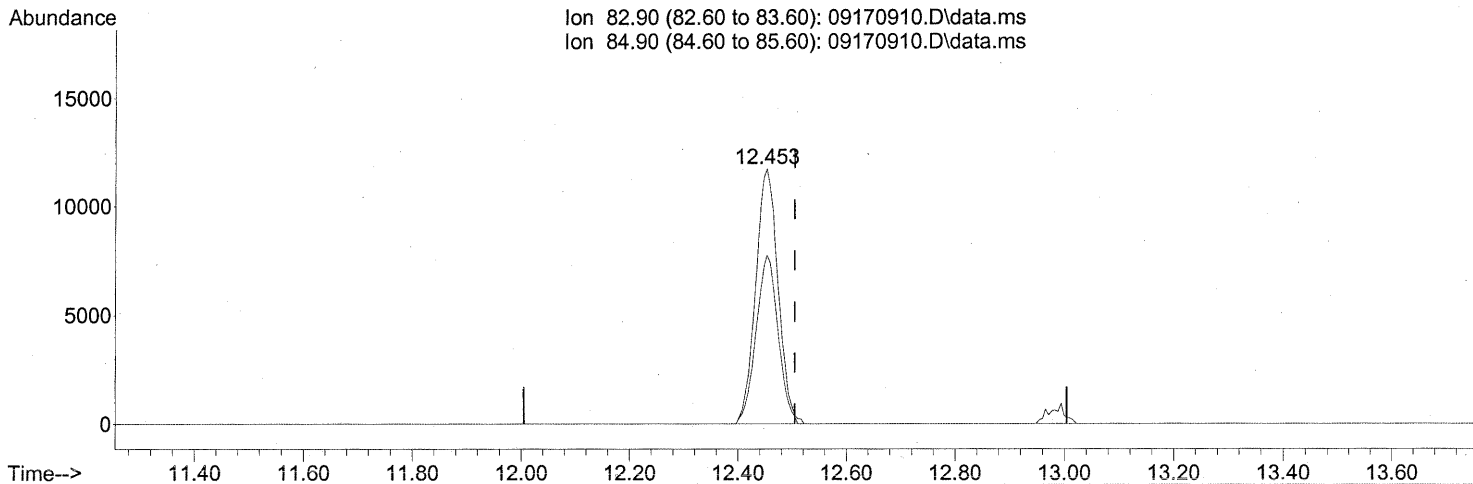
response 21775

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	79.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

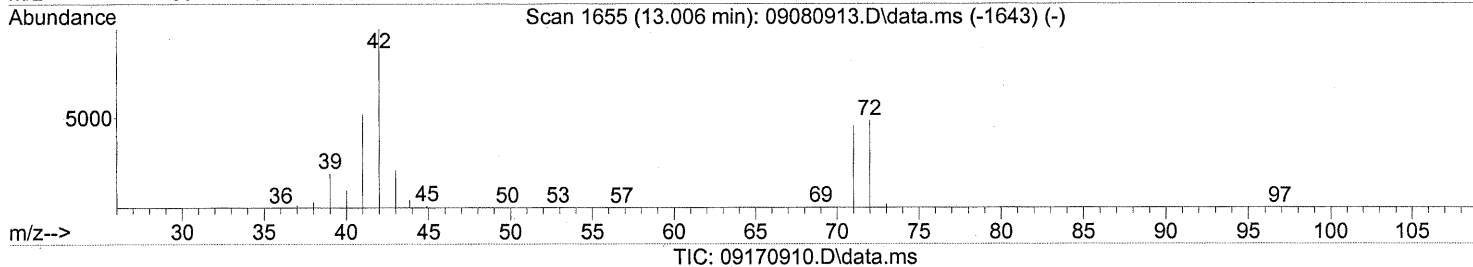
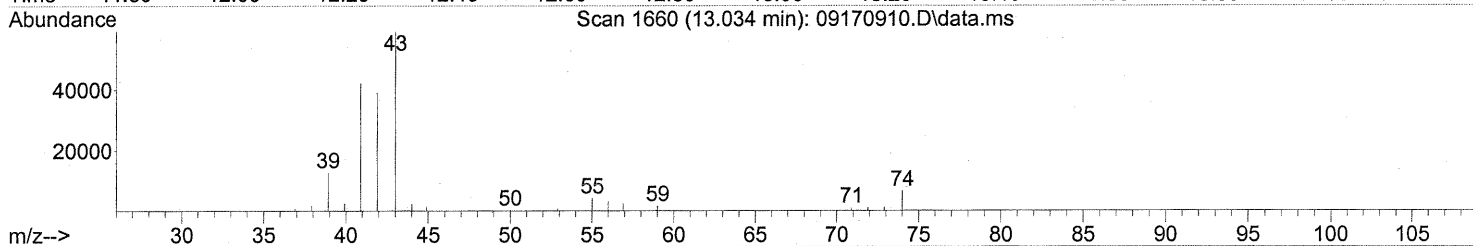
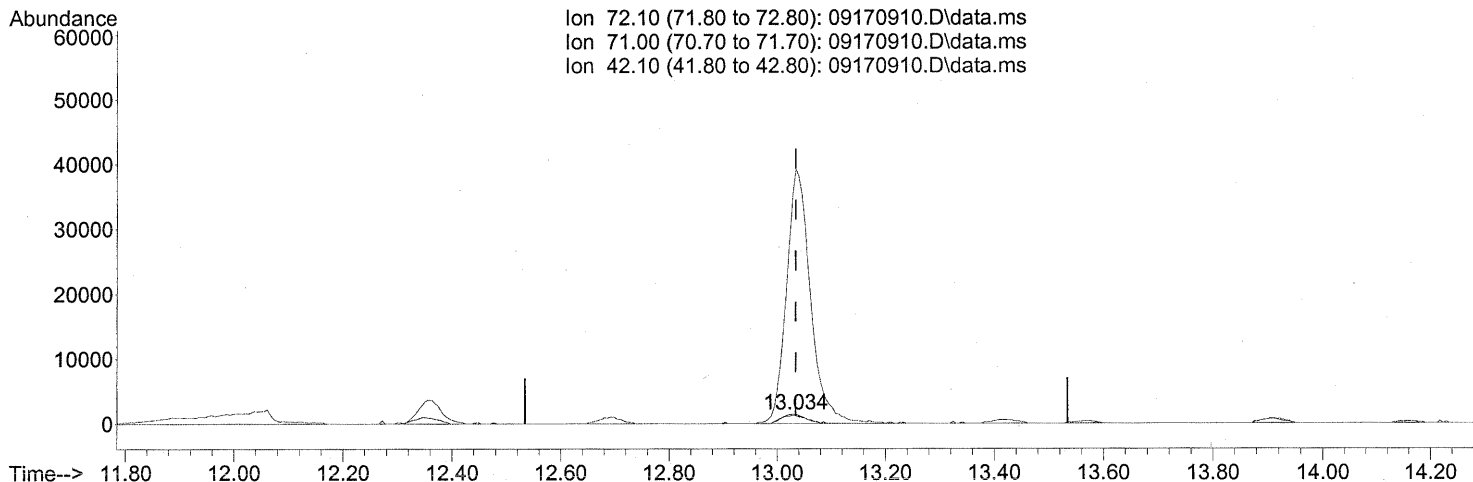
(32) Chloroform (T)
 12.453min (-0.051) 1.70ng
 response 33631

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	64.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.034min (+0.000) 0.59ng

response 4389

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	89.34
42.10	240.00	2741.74#
0.00	0.00	0.00

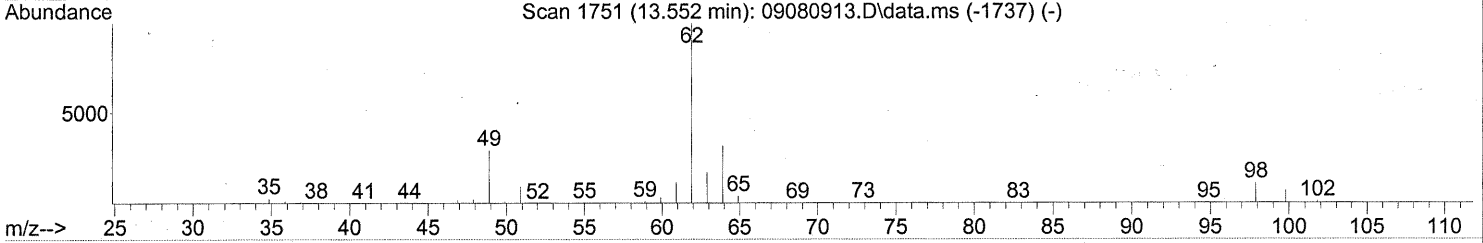
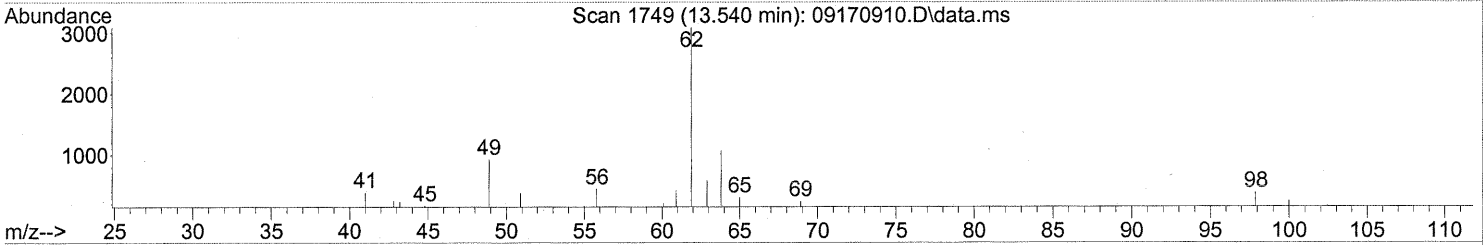
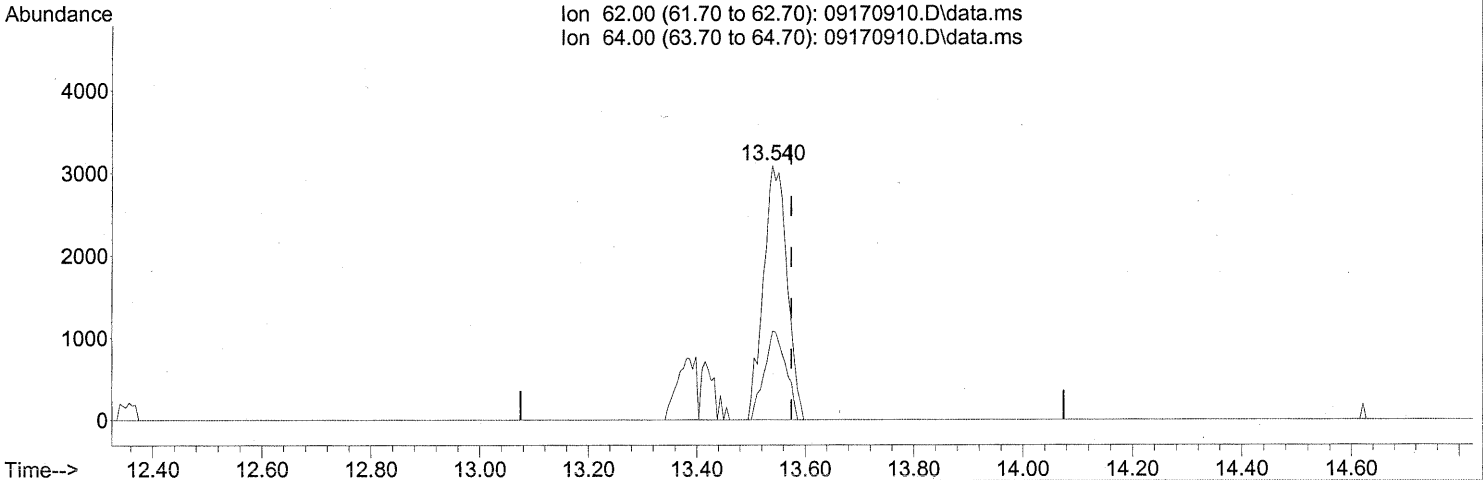
FP LH 9/21/09

Com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.540min (-0.034) 0.68ng

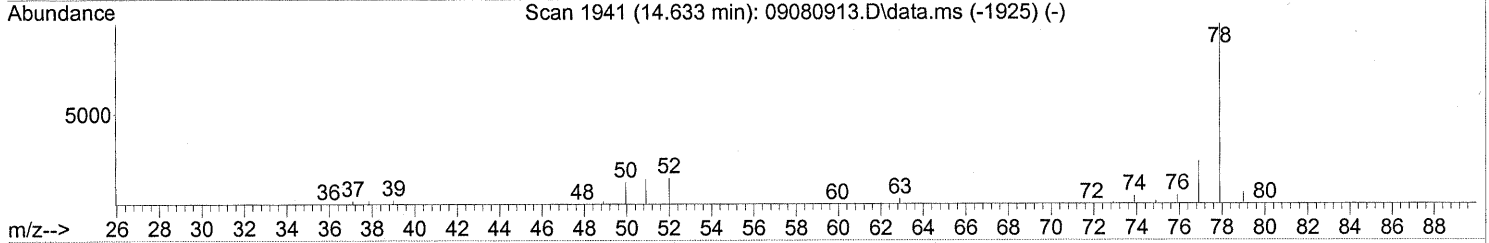
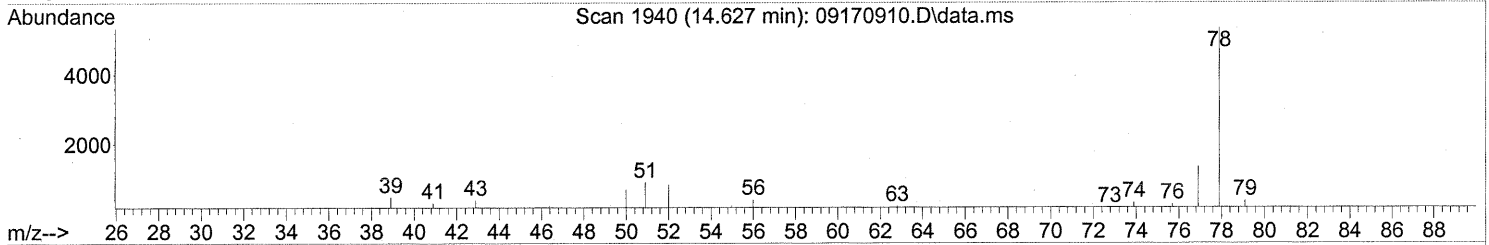
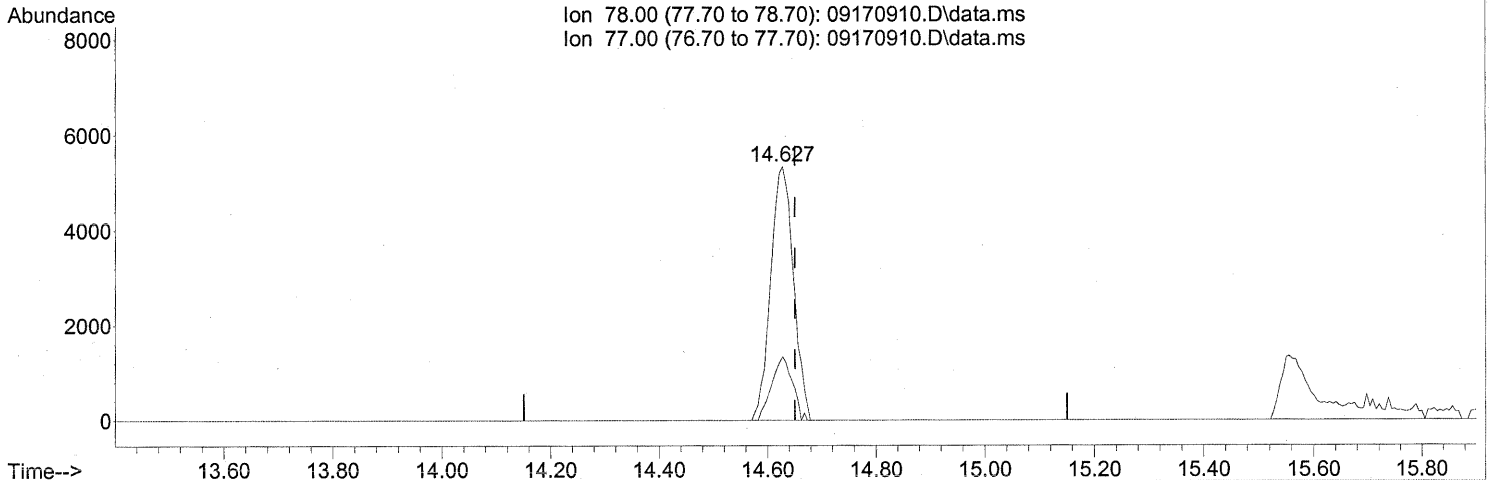
response 9364

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	32.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.627min (-0.023) 0.32ng

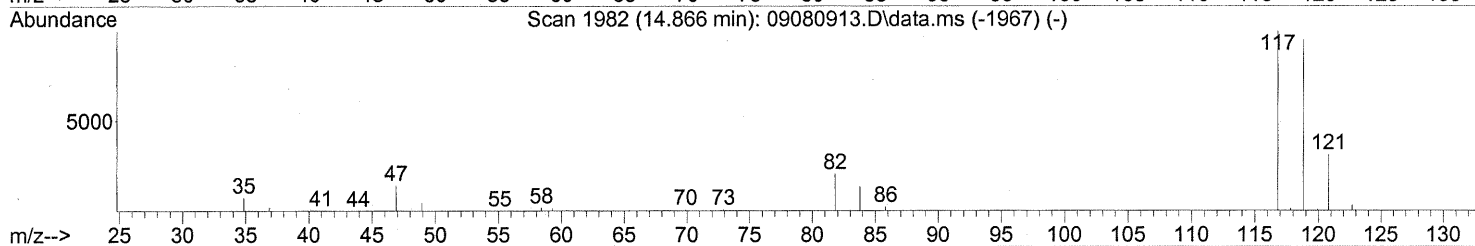
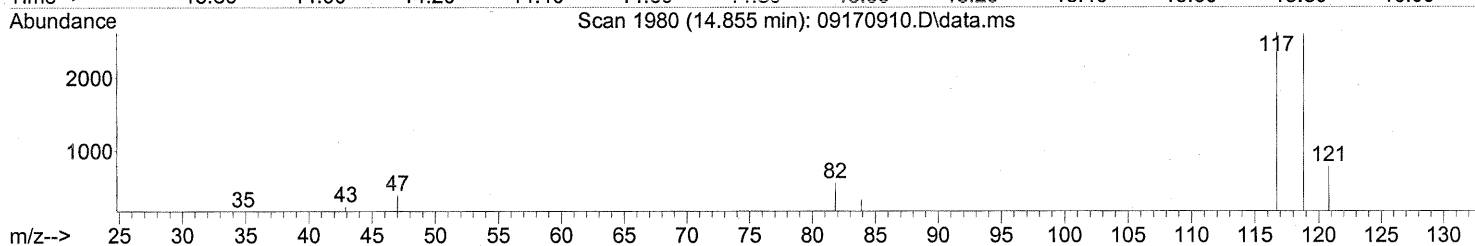
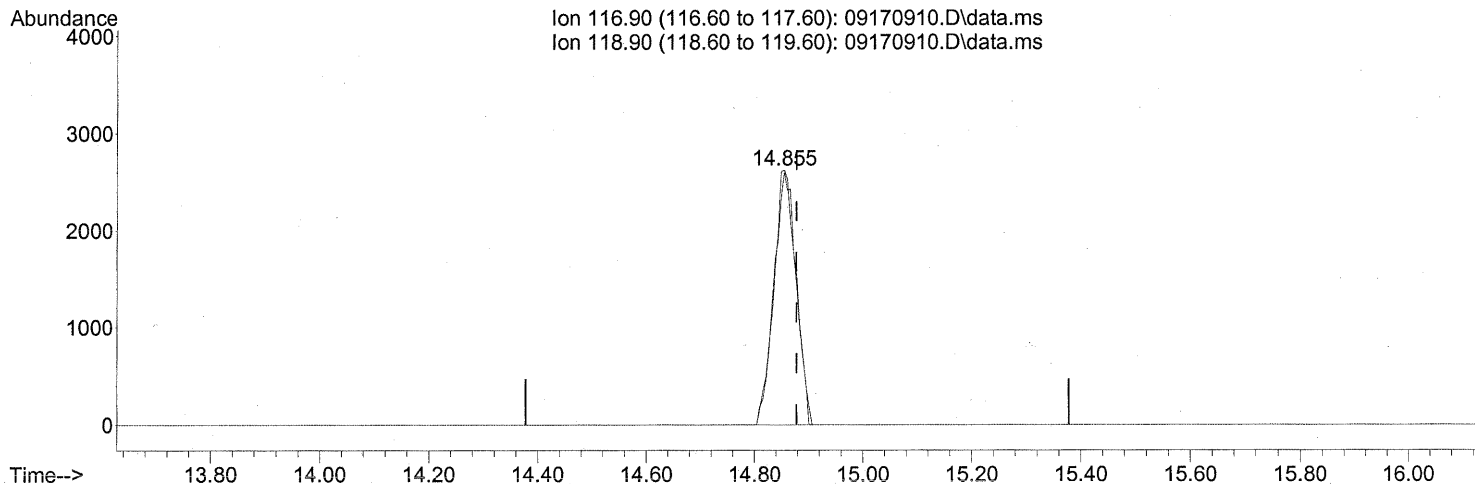
response 15578

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	22.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170910.D\data.ms

(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.52ng

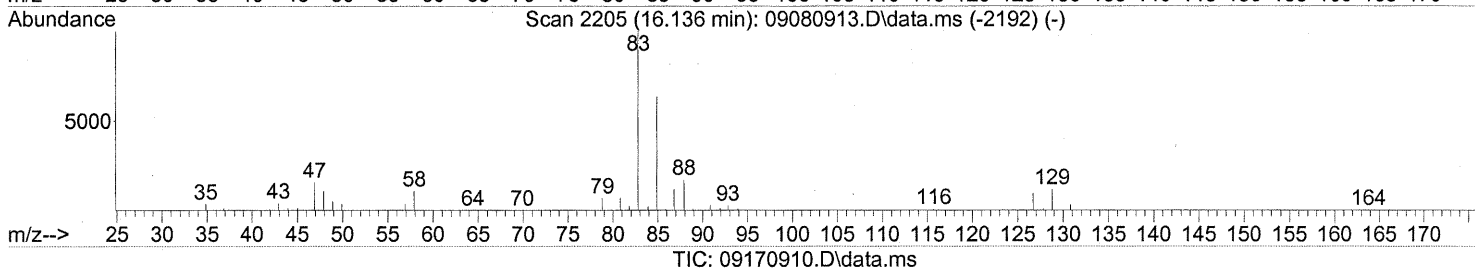
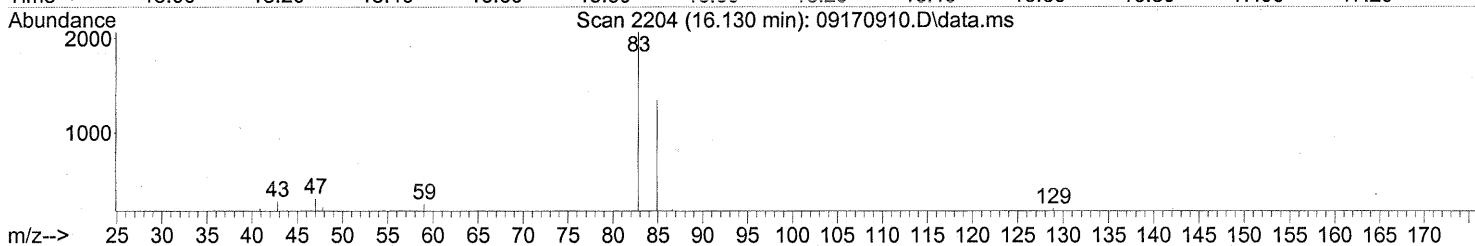
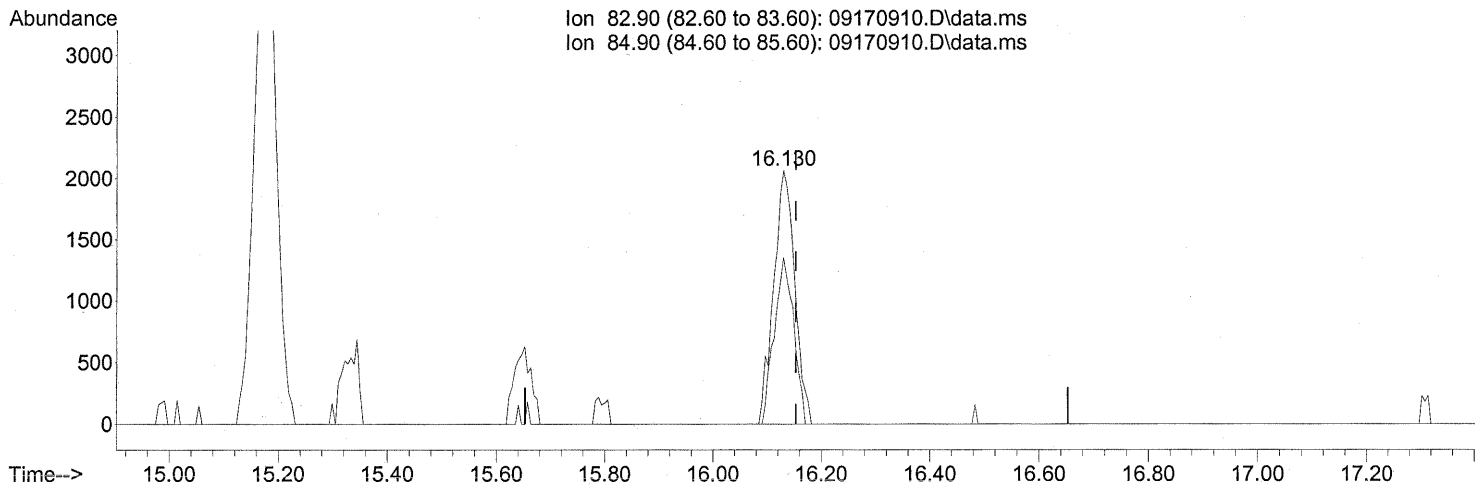
response 7522

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	98.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.130min (-0.023) 0.37ng

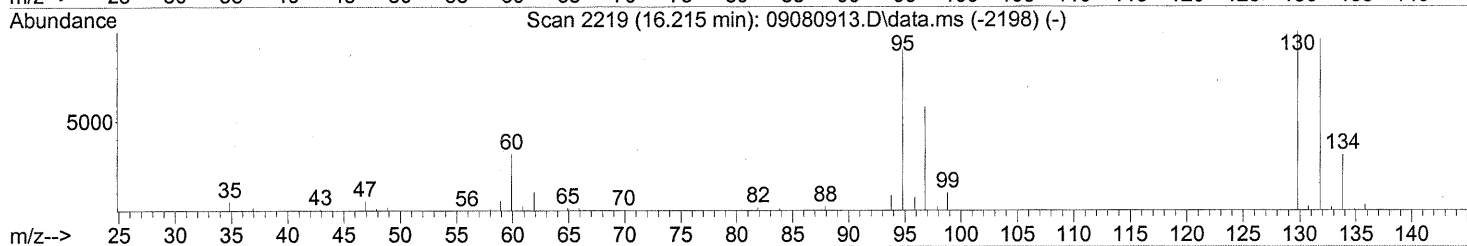
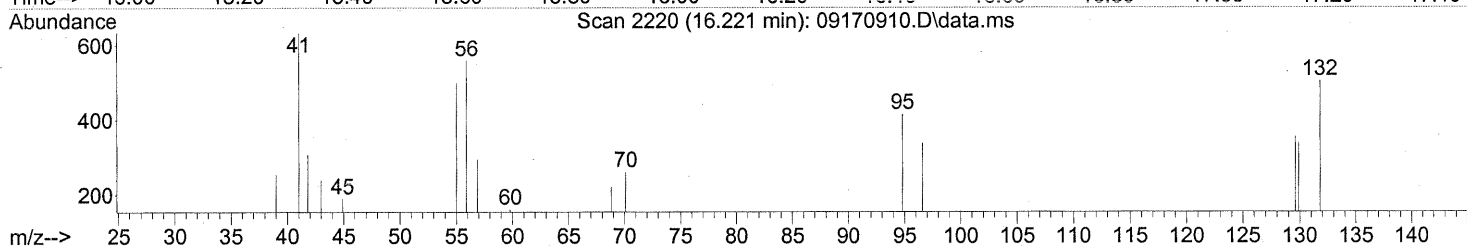
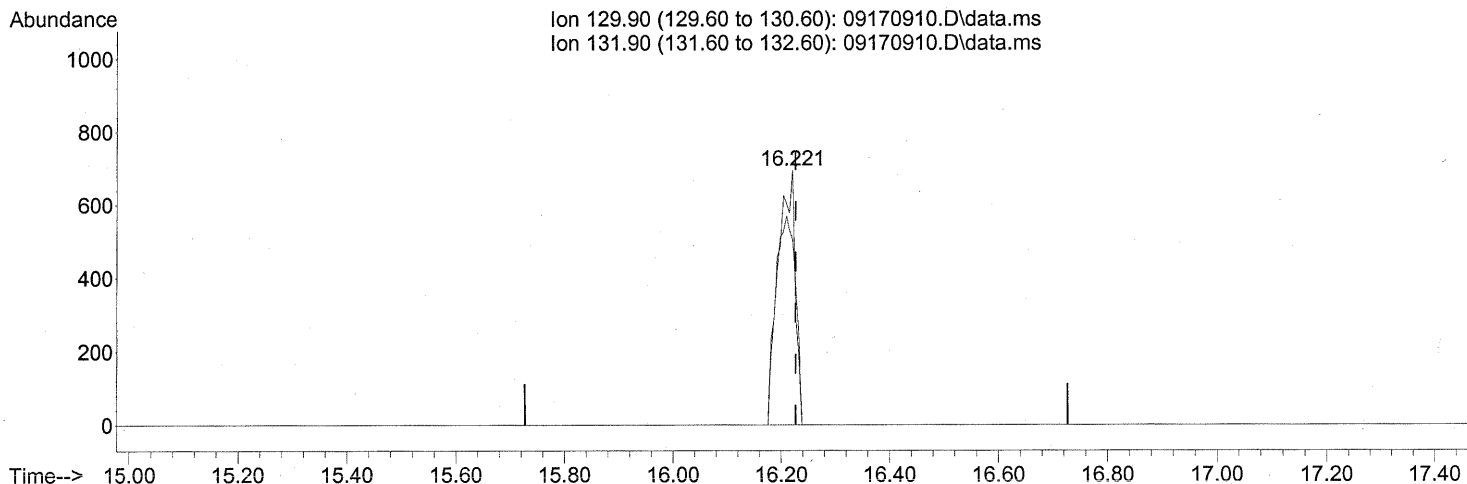
response 5557

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	60.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(47) Trichloroethene (T)

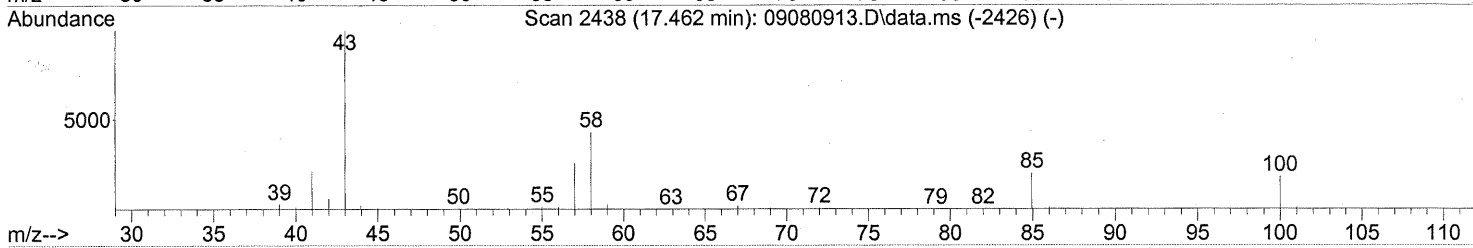
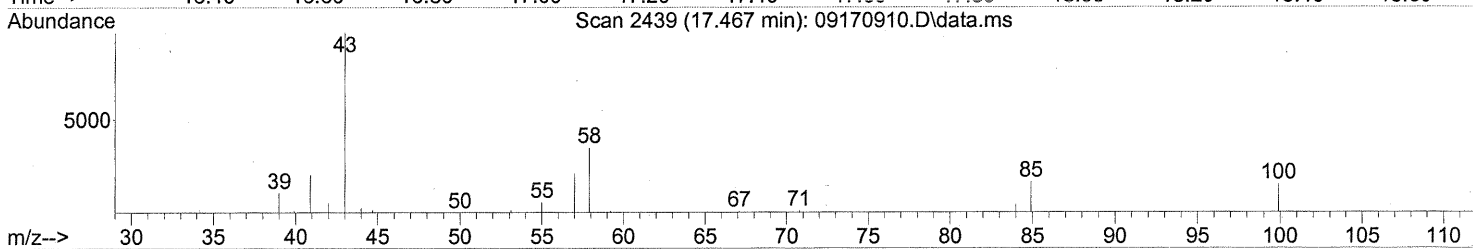
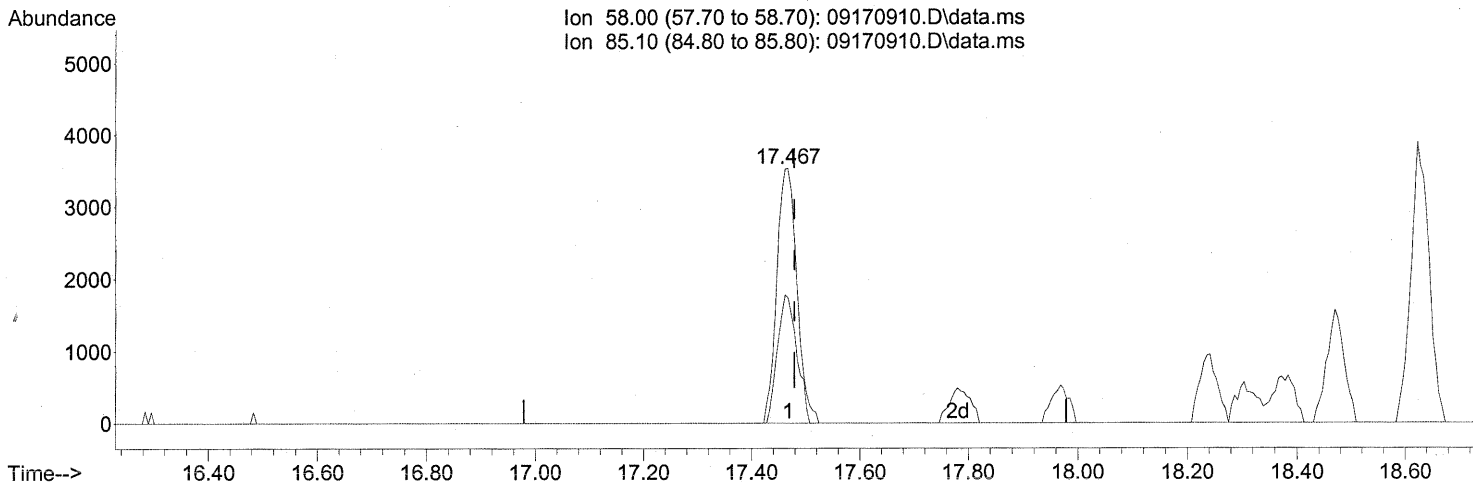
16.221min (-0.006) 0.10ng
 response 1521

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	93.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.467min (-0.011) 0.85ng

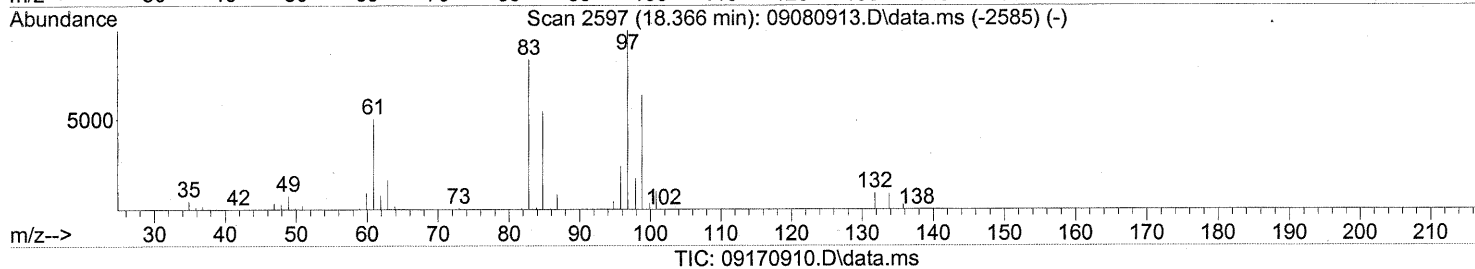
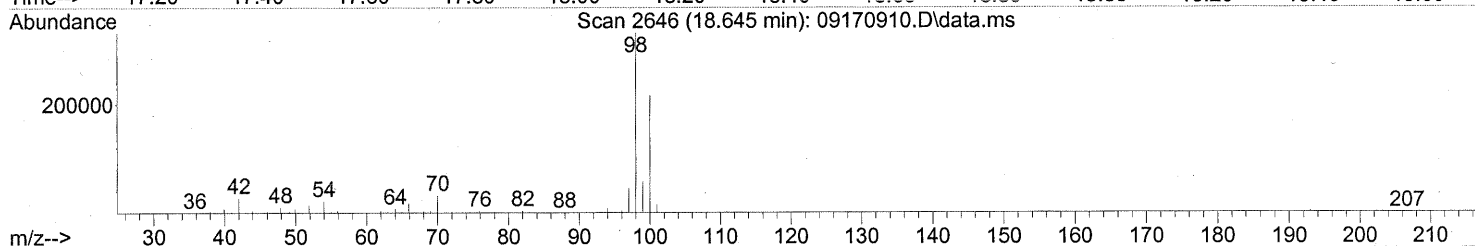
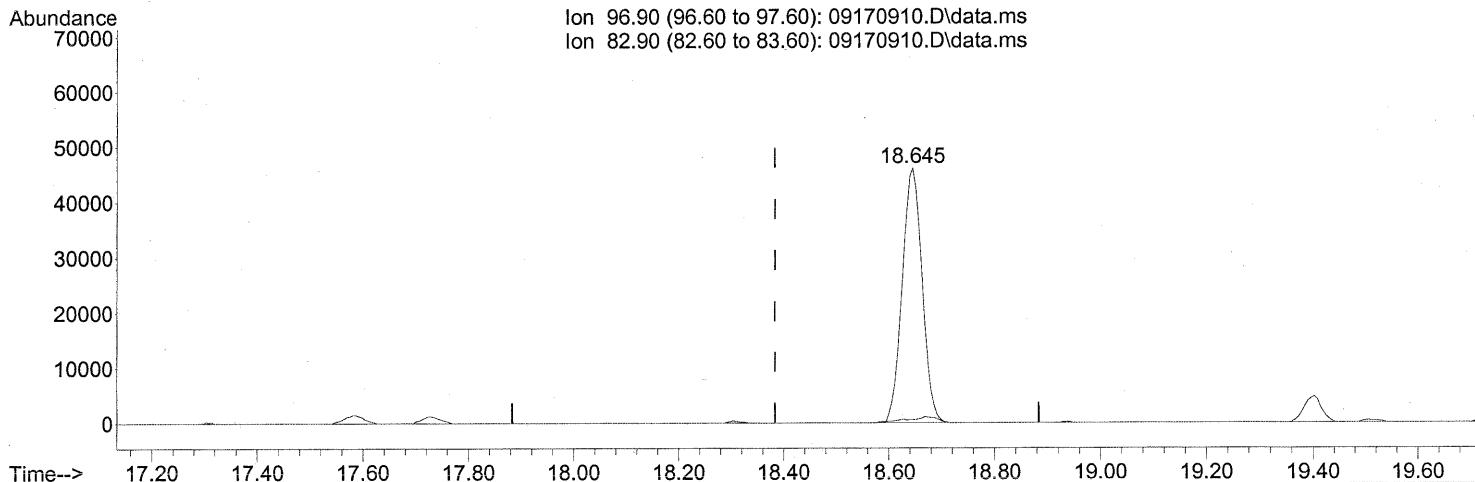
response 9098

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	48.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.91ng

response 120101

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	1.23#
0.00	0.00	0.00
0.00	0.00	0.00

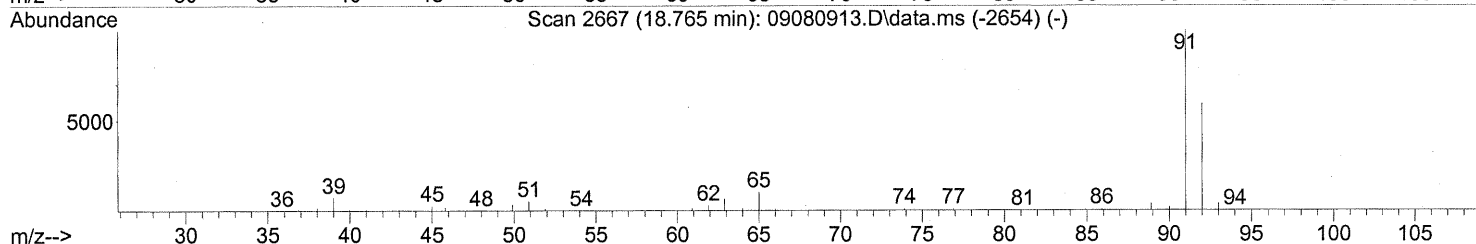
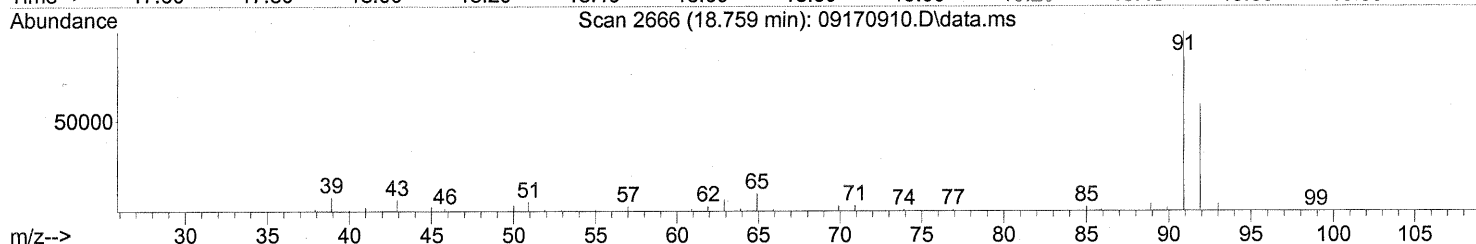
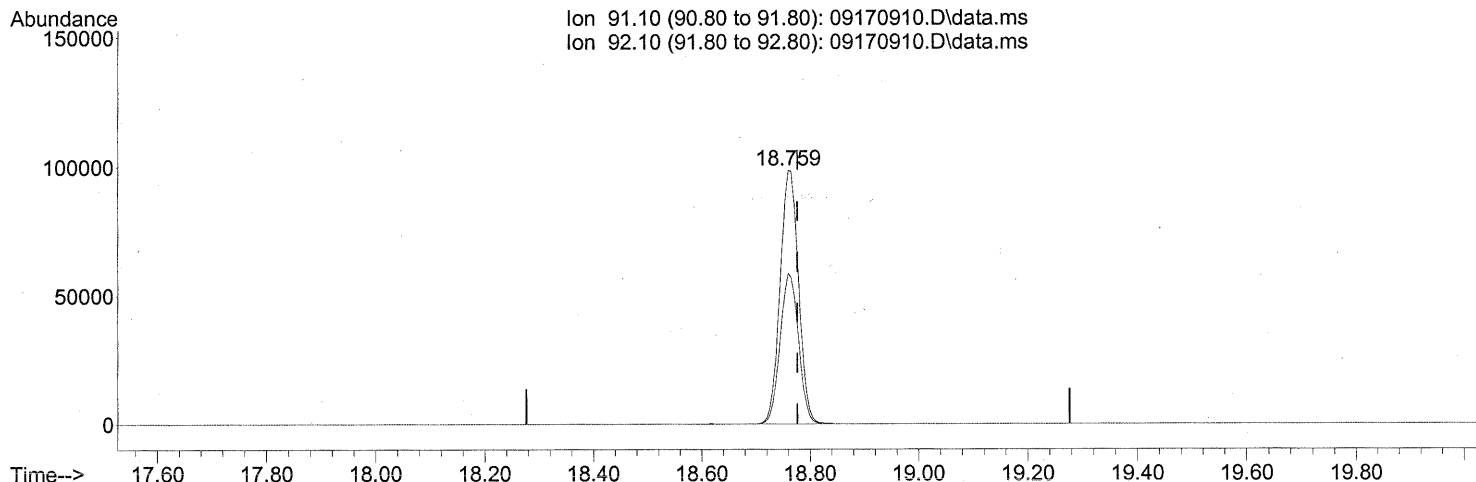
FP in 9/21/09

Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

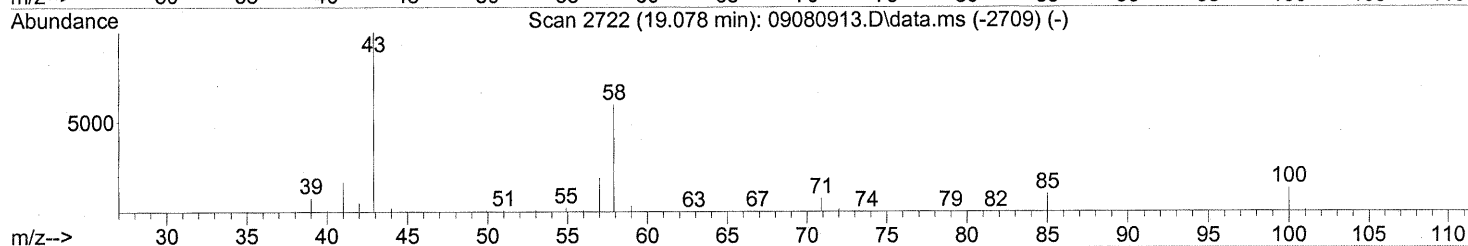
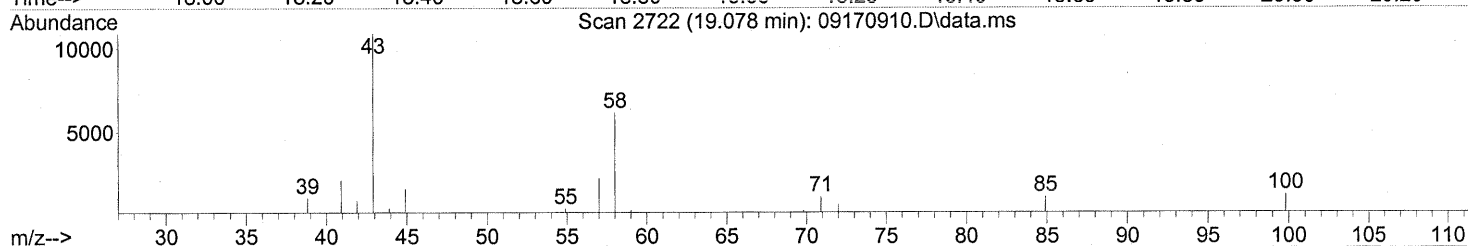
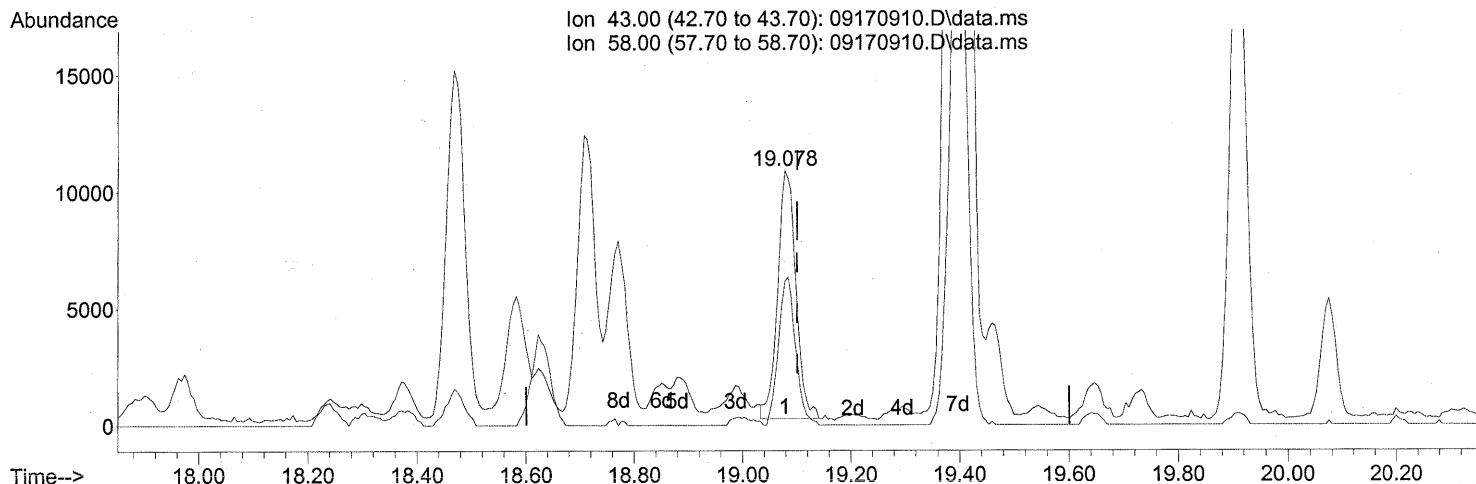
(58) Toluene (T)
 18.759min (-0.017) 4.32ng
 response 232343

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	59.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(59) 2-Hexanone (T)

19.078min (-0.023) 0.96ng

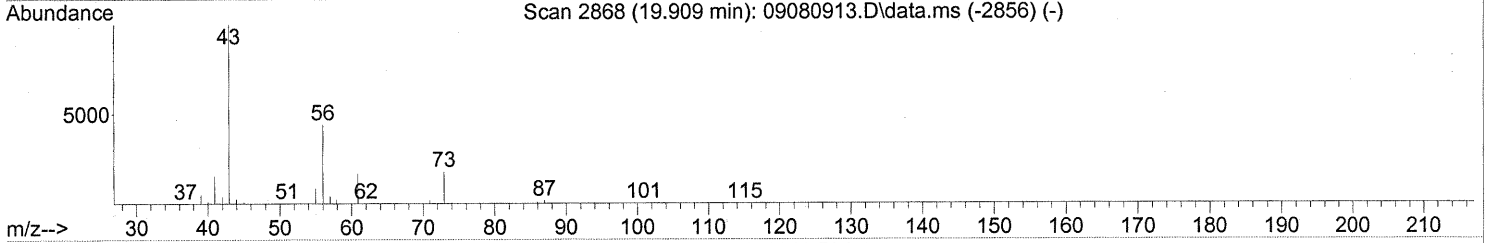
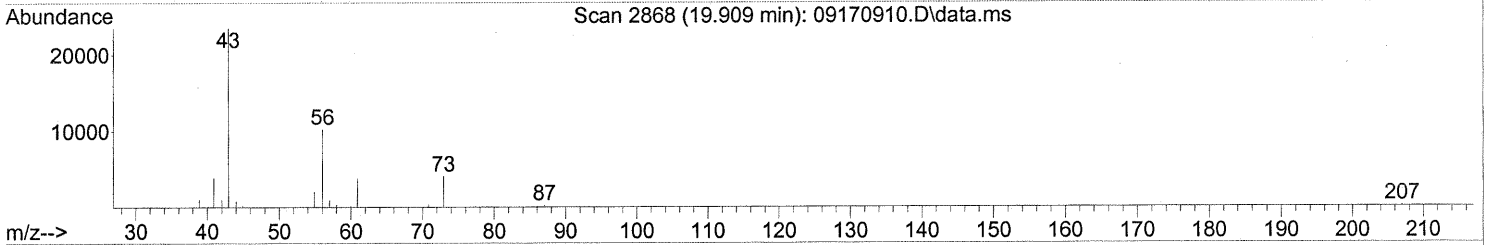
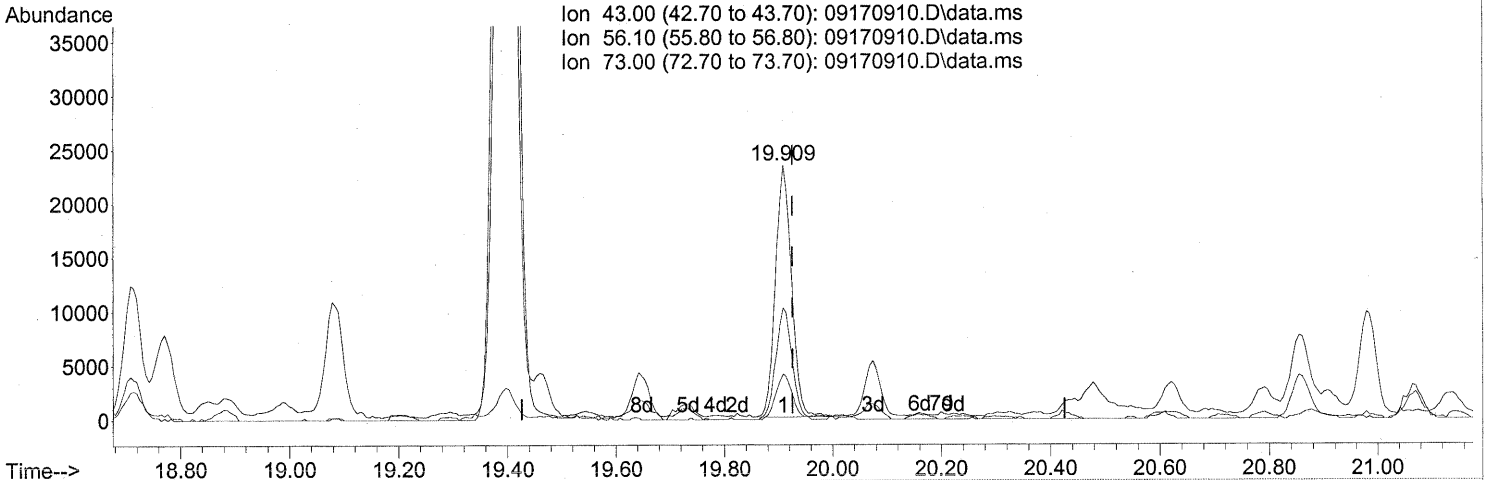
response 24828

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	55.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



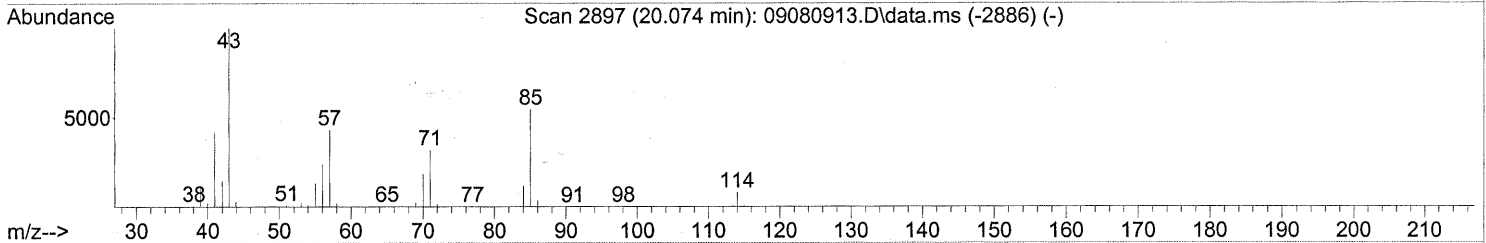
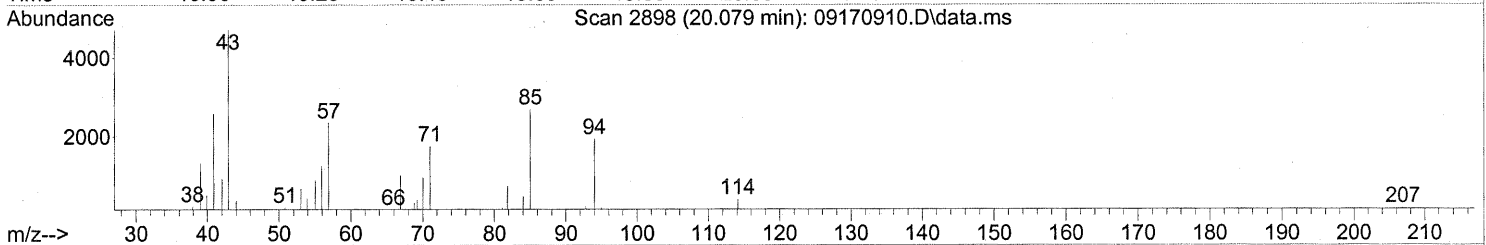
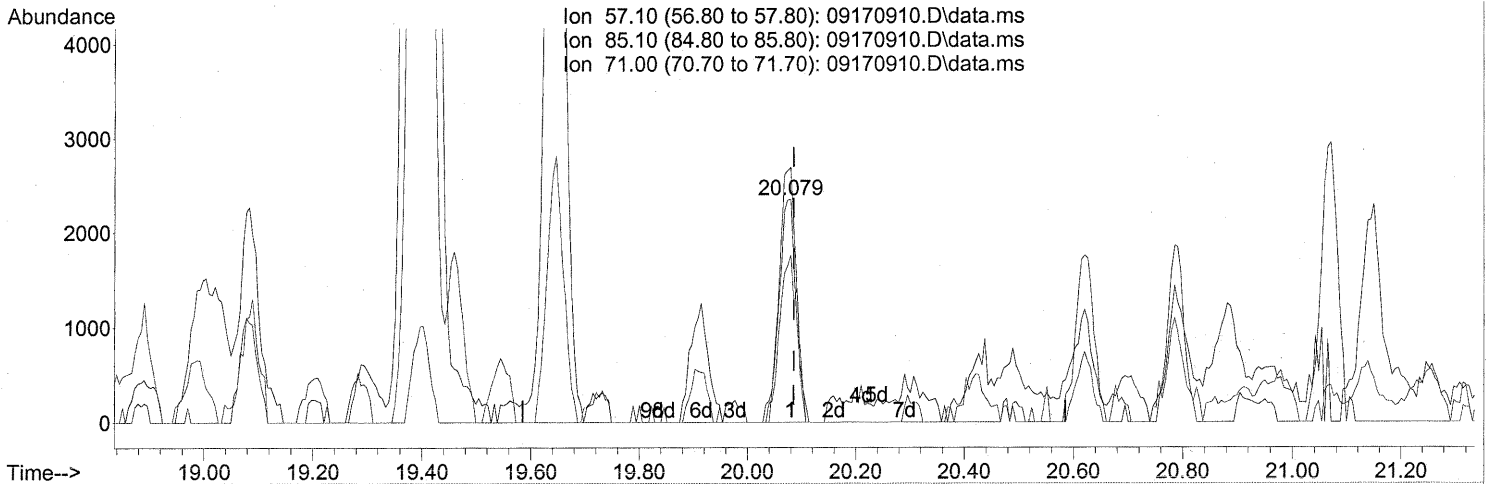
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 1.63ng
 response 48474

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	45.06
73.00	15.40	18.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(63) n-Octane (T)

20.079min (-0.006) 0.51ng

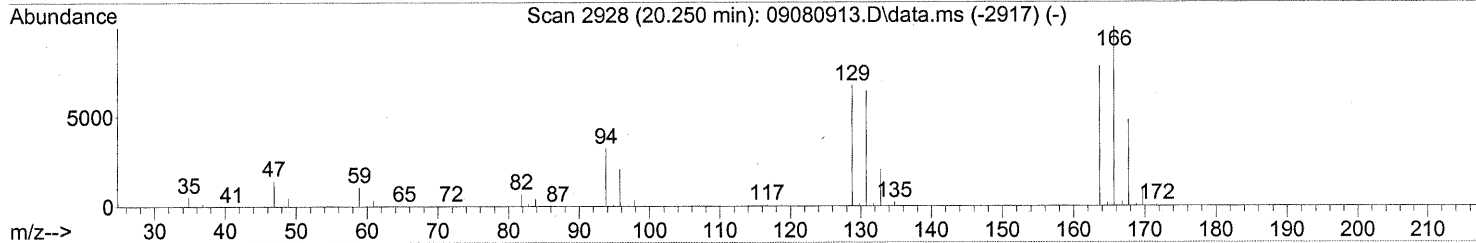
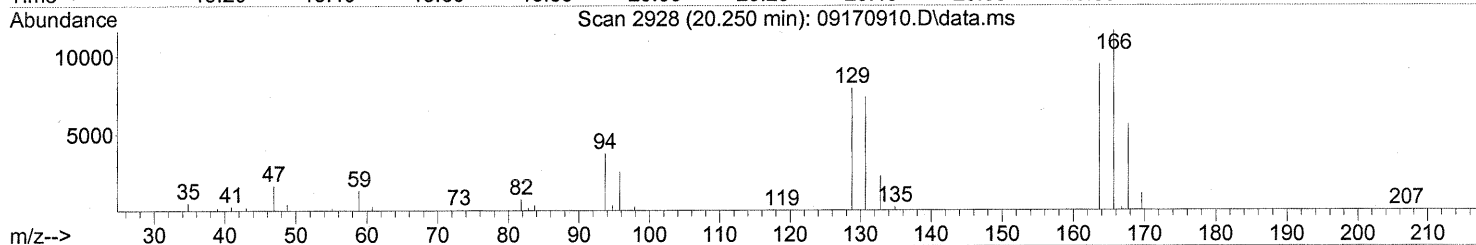
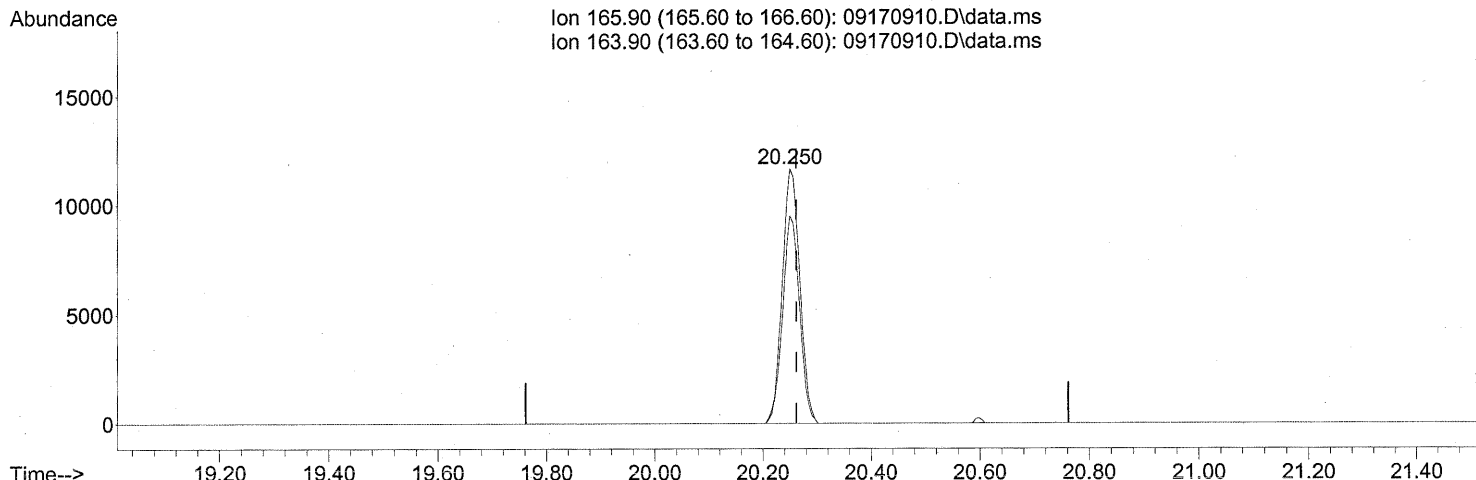
response 5135

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	112.68
71.00	69.40	75.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

(64) Tetrachloroethene (T)

20.250min (-0.011) 1.58ng

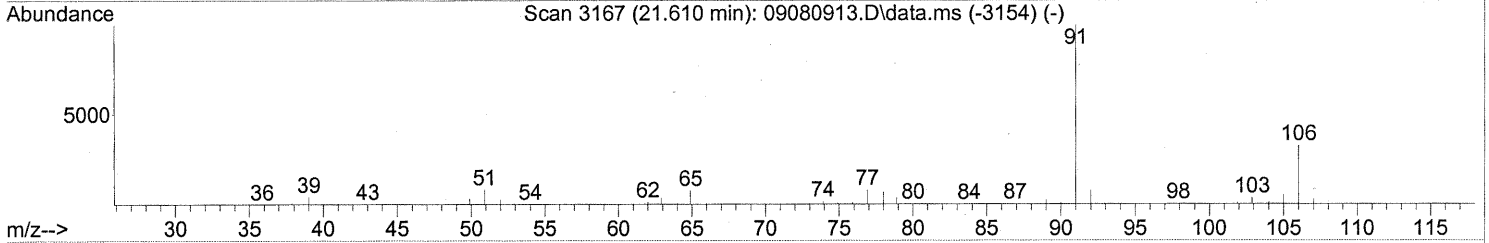
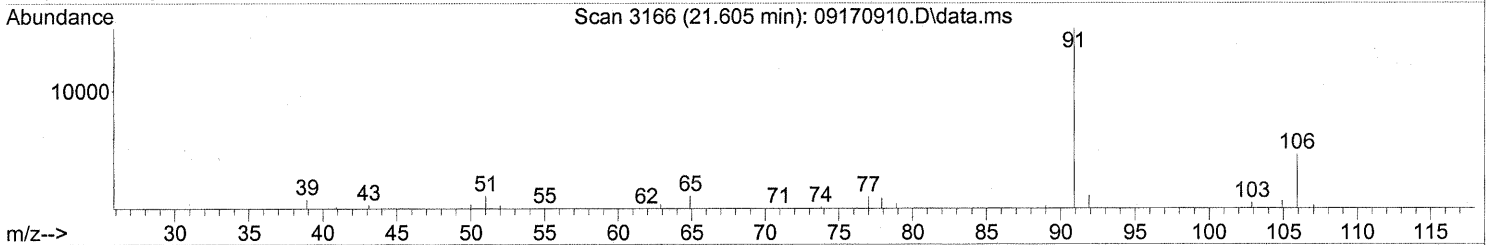
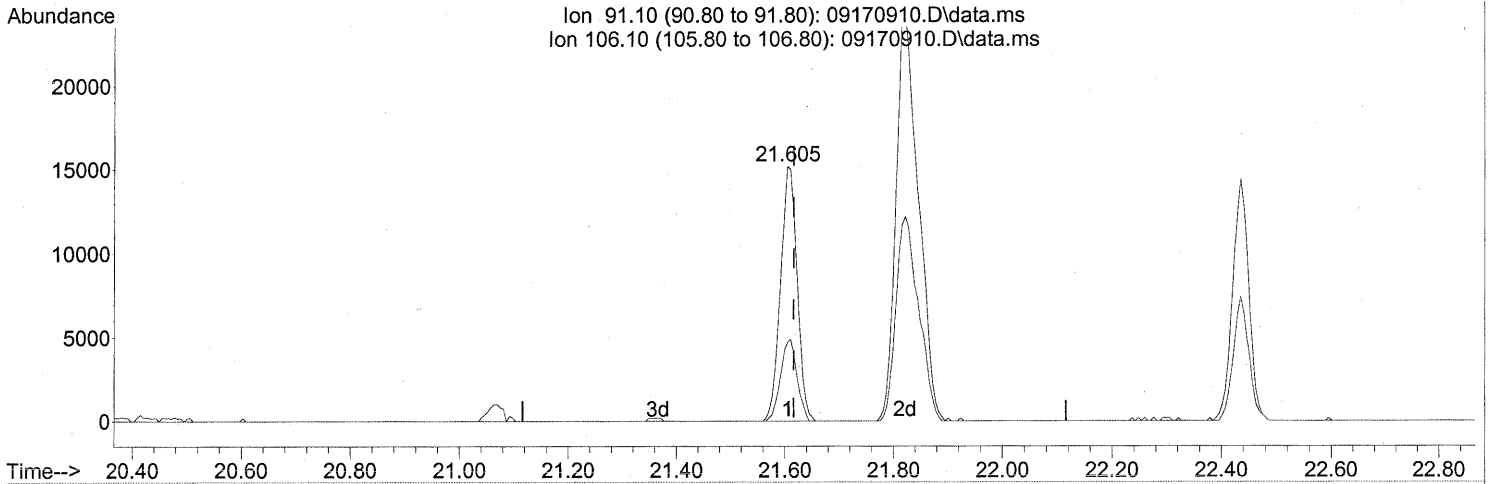
response 26218

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	78.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

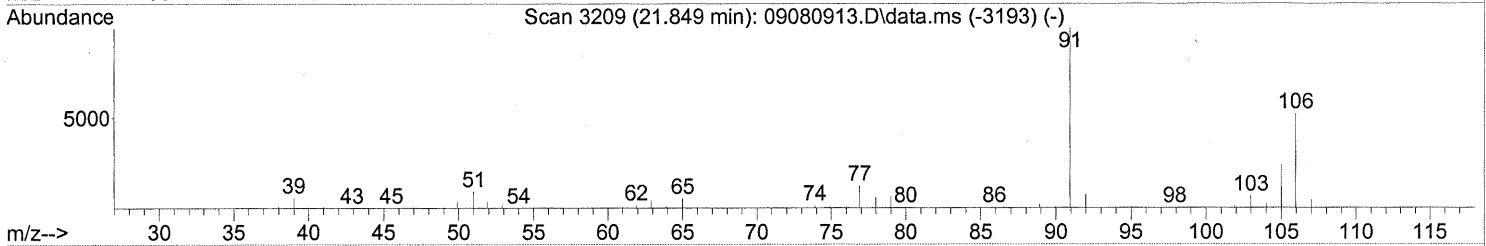
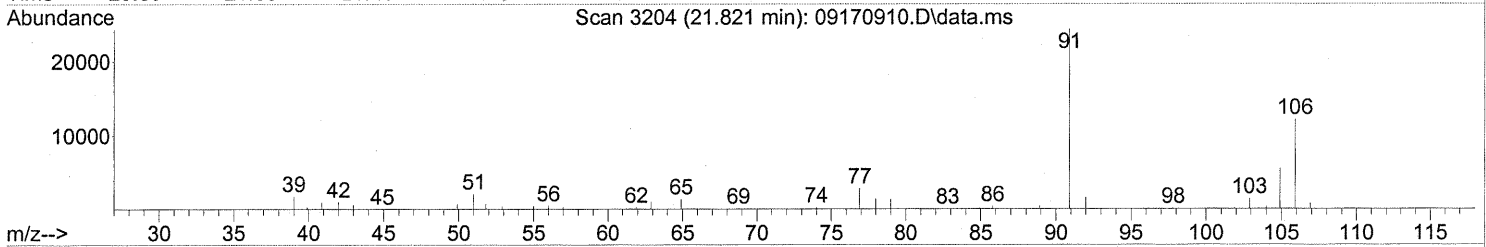
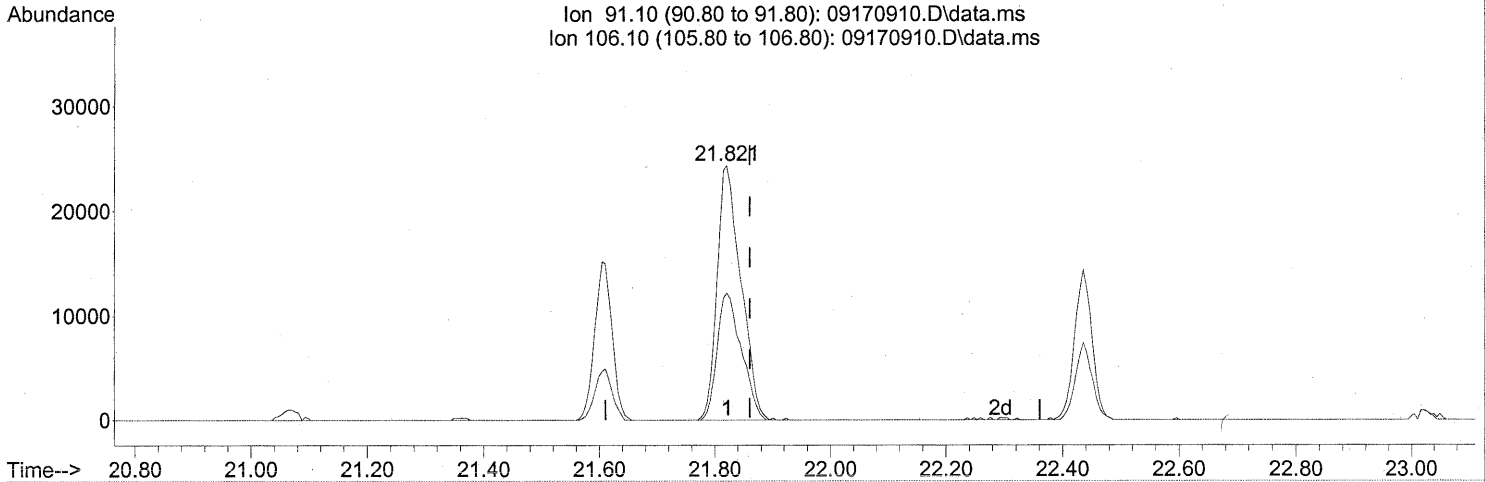
(66) Ethylbenzene (T)
 21.605min (-0.011) 0.54ng
 response 32032

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	31.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170910.D\data.ms

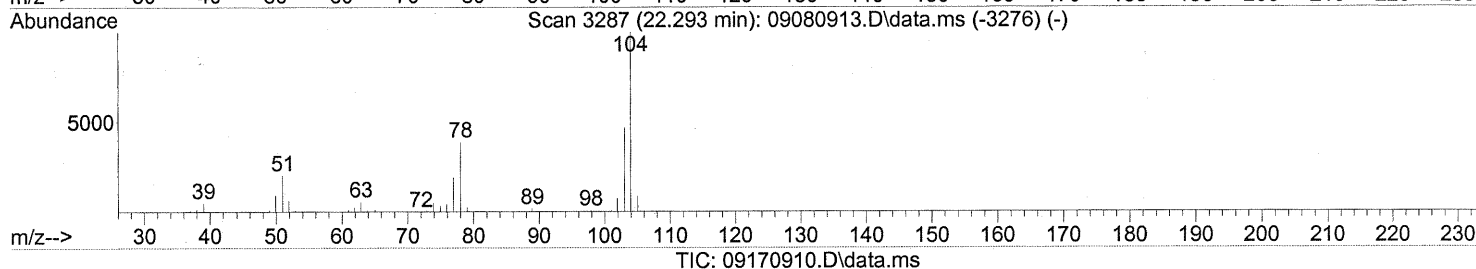
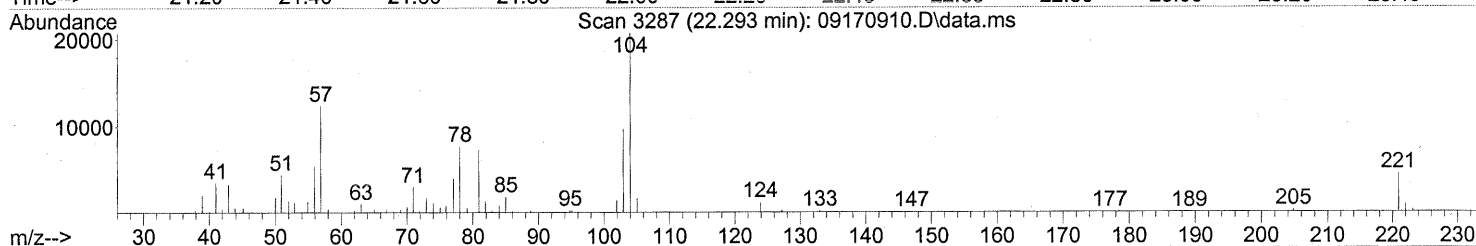
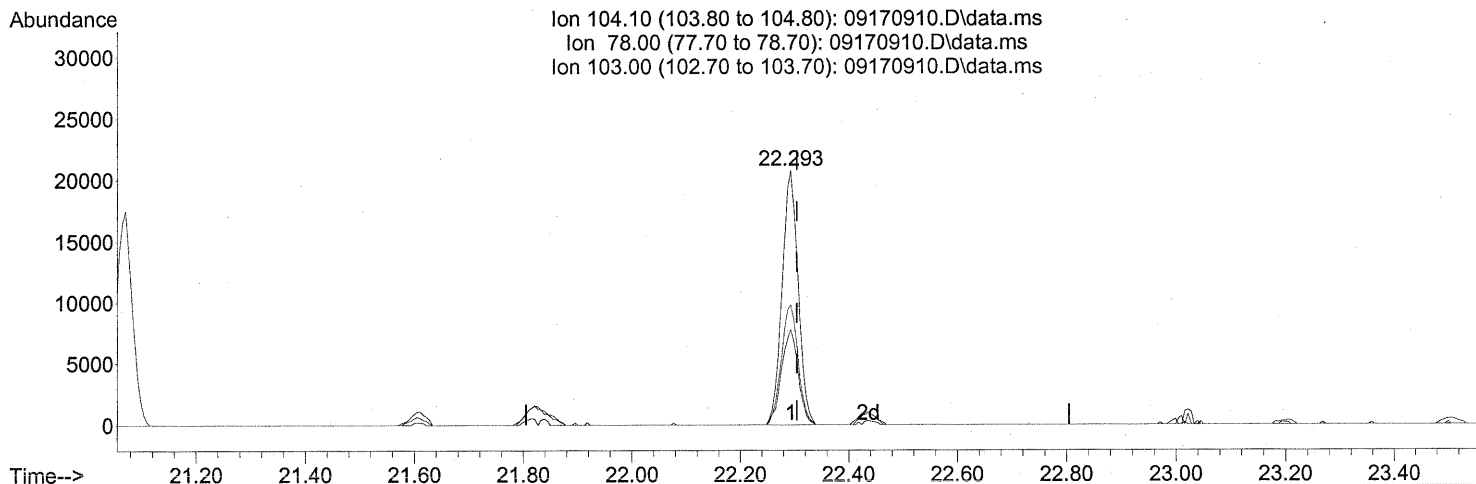
(67) m- & p-Xylenes (T)
 21.821min (-0.040) 1.51ng
 response 69744

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	50.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.293min (-0.011) 1.12ng

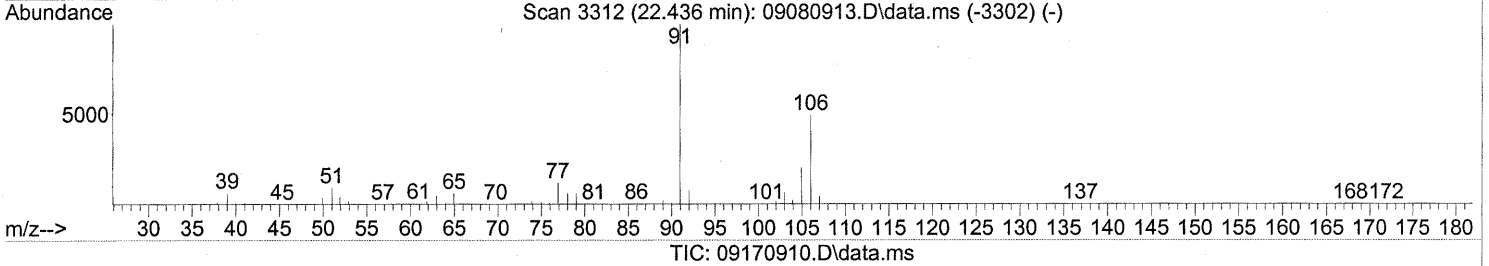
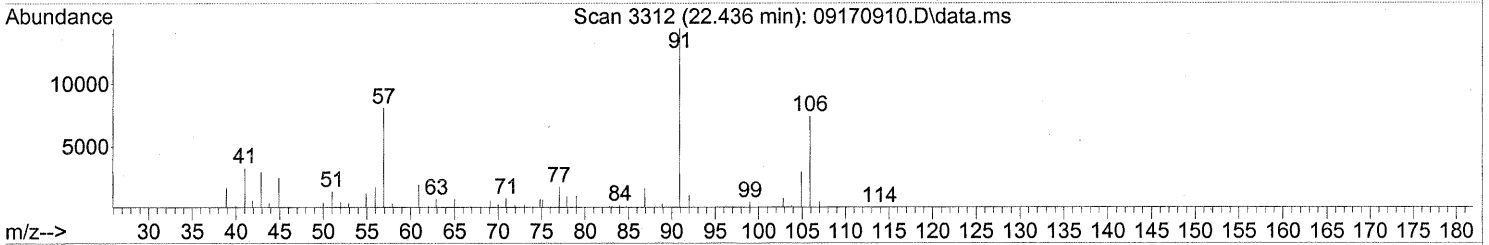
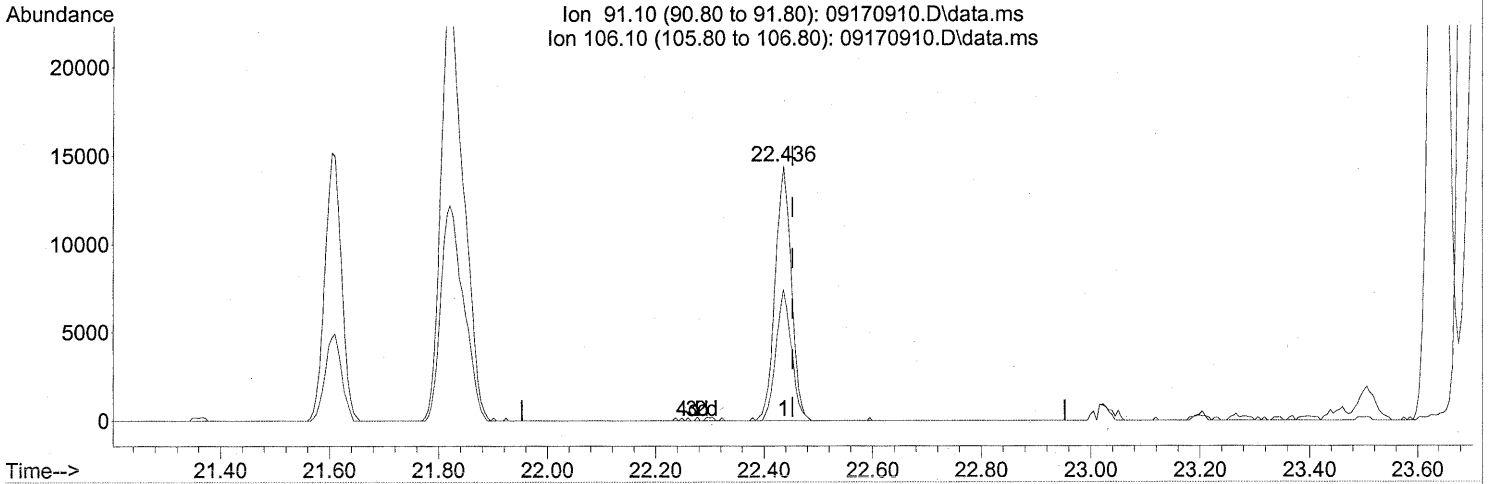
response 42590

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	38.93
103.00	47.80	49.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.436min (-0.017) 0.64ng

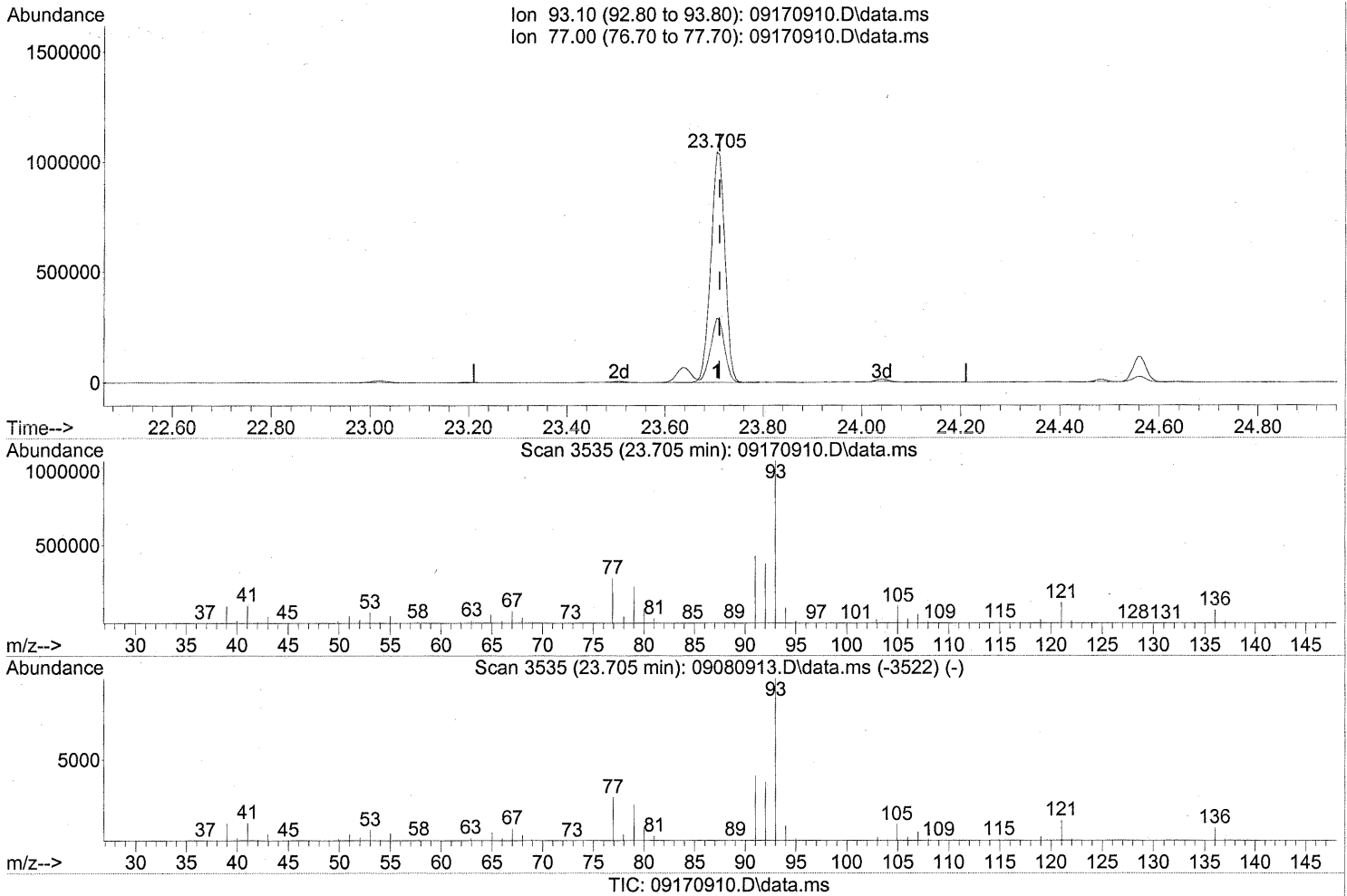
response 29961

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	49.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



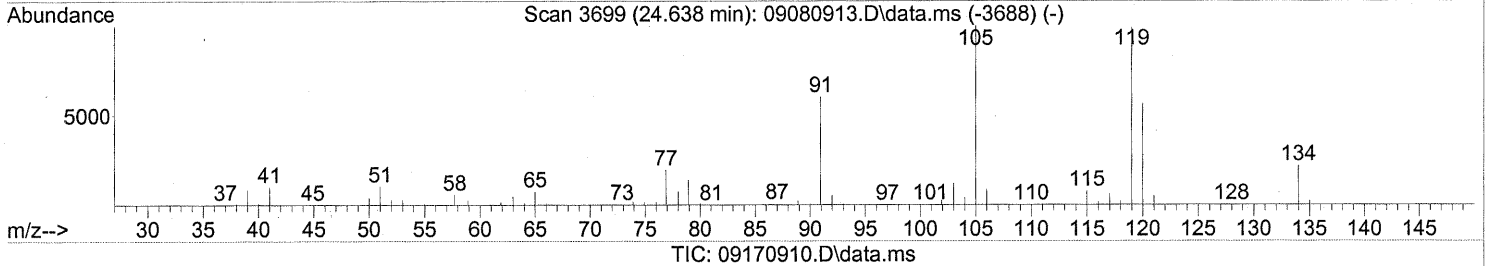
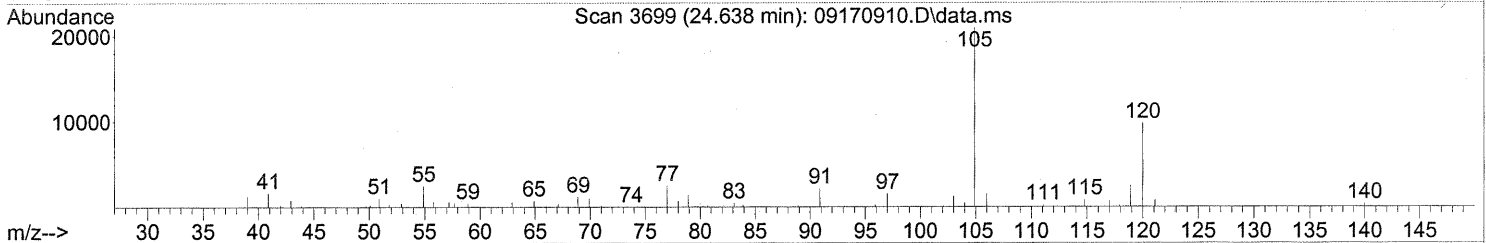
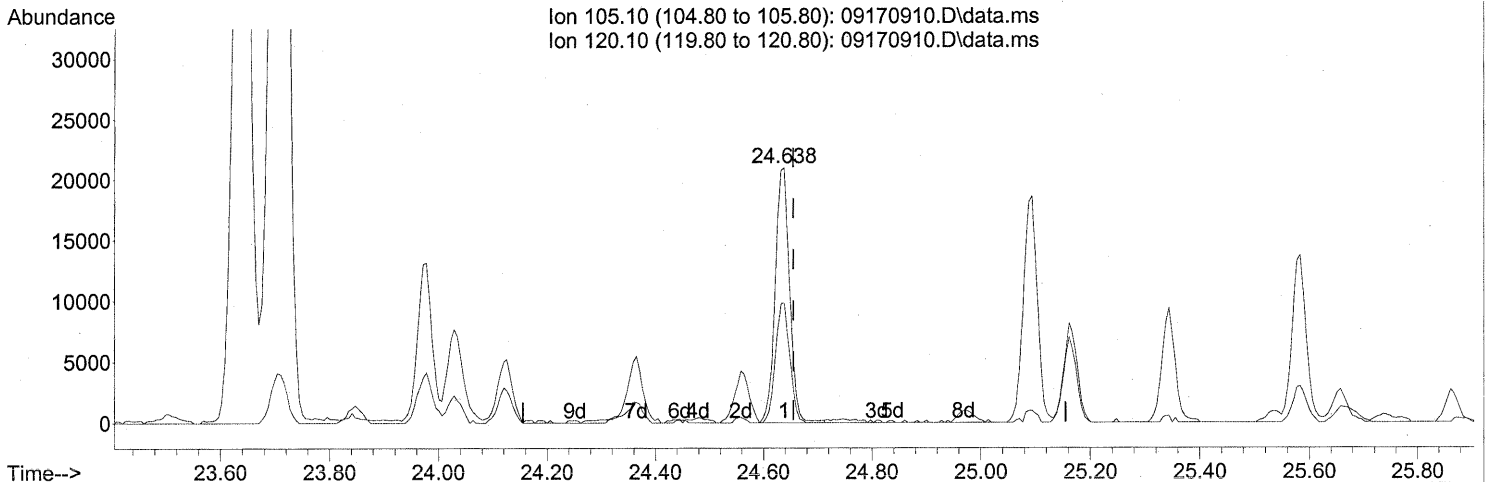
(75) alpha-Pinene (T)
23.705min (-0.006) 68.72ng
response 2084540

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.638min (-0.017) 0.72ng

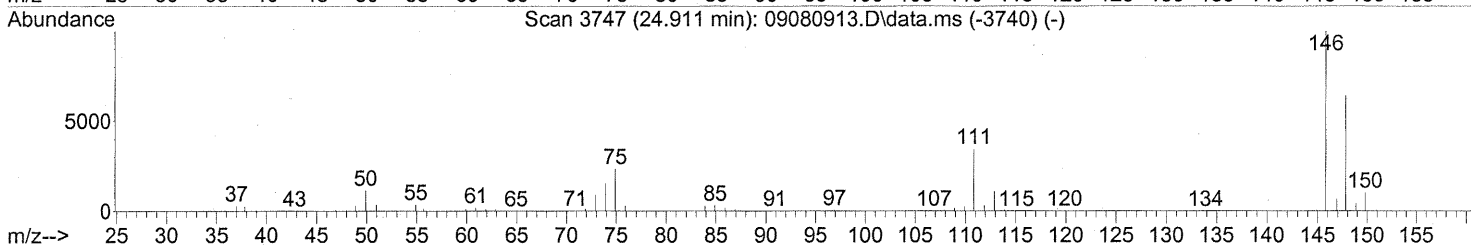
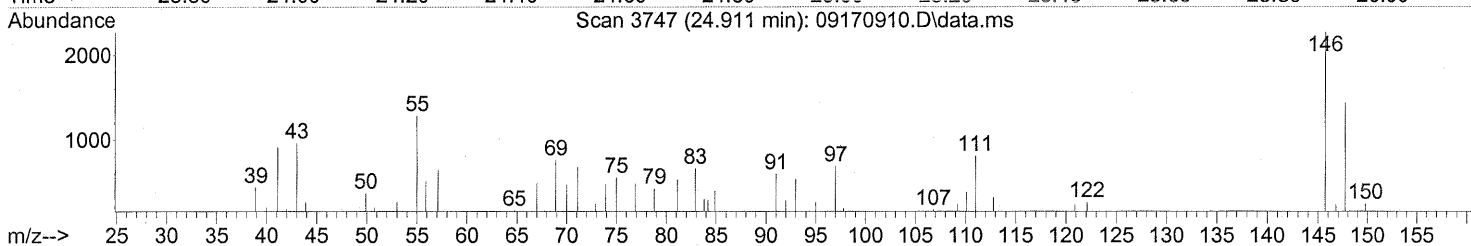
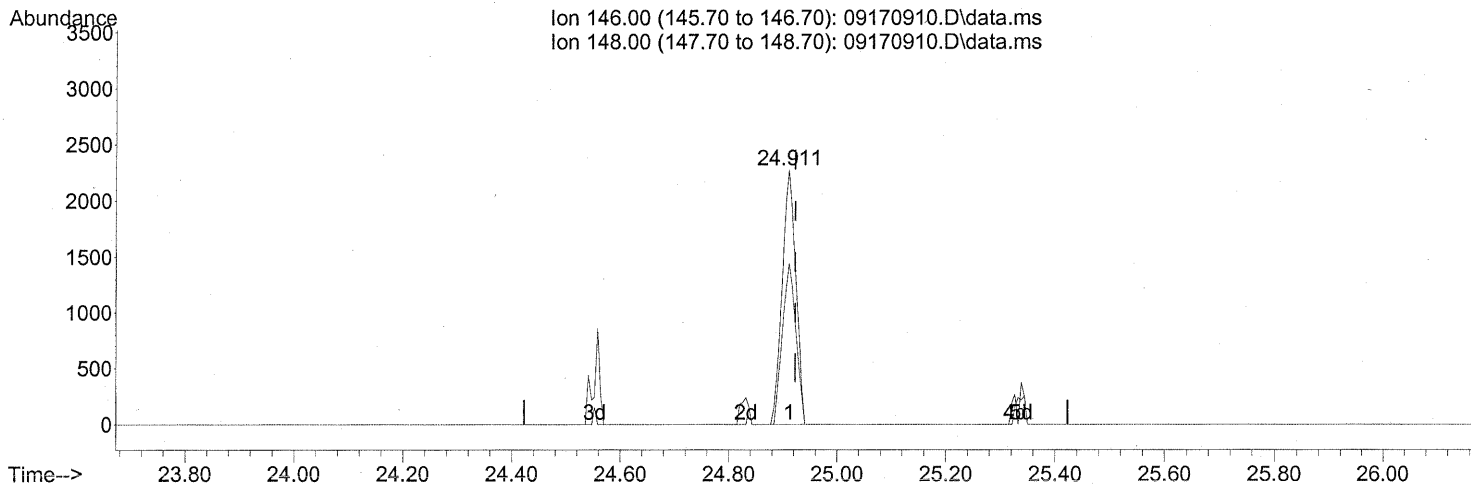
response 38712

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	46.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 18 11:32:09 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.12ng

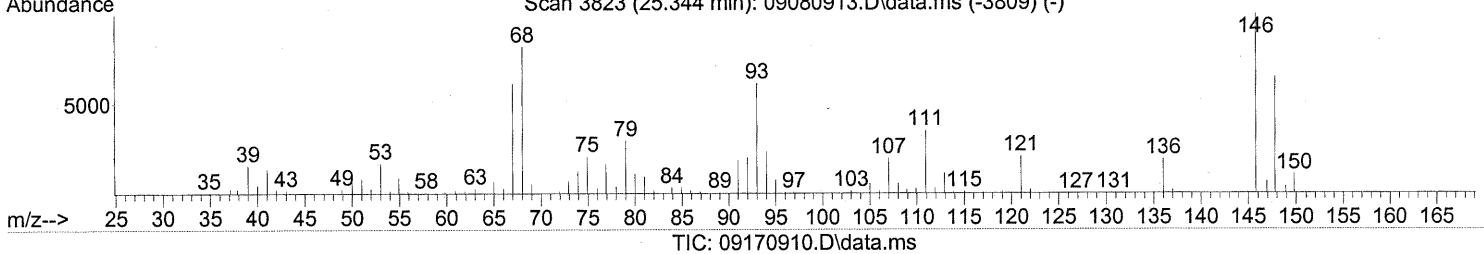
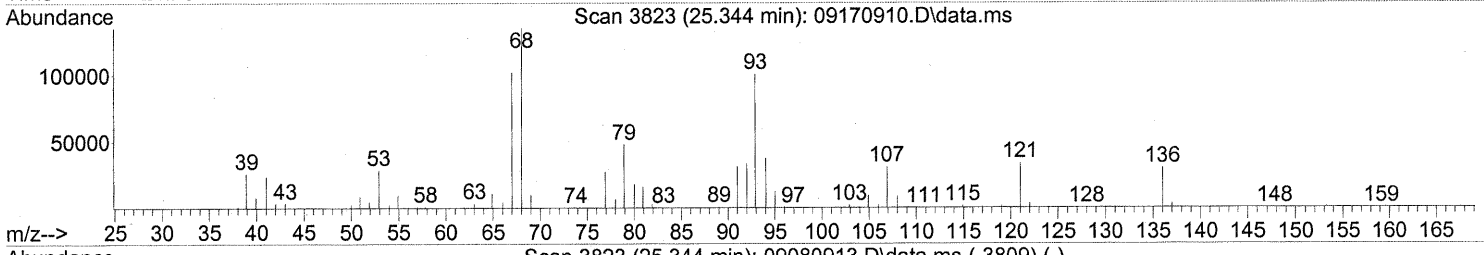
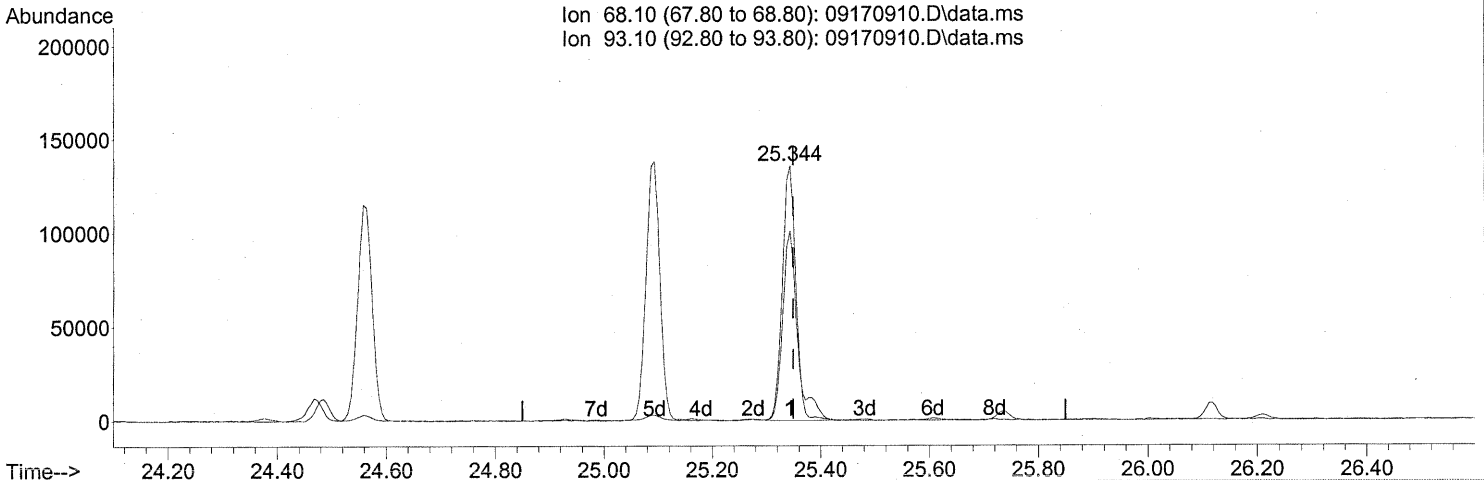
response 4018

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	62.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170910.D
 Acq On : 17 Sep 2009 13:22
 Operator : LH
 Sample : P0903145-015 (1000mL)
 Misc : Environmental H & E 102829
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



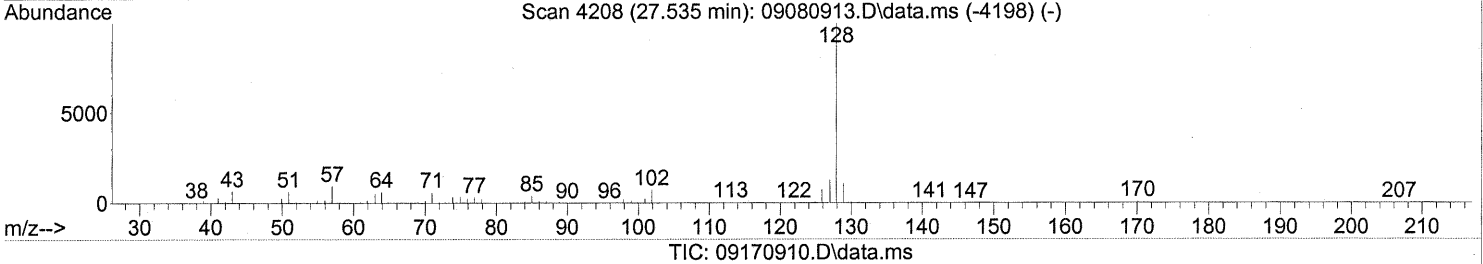
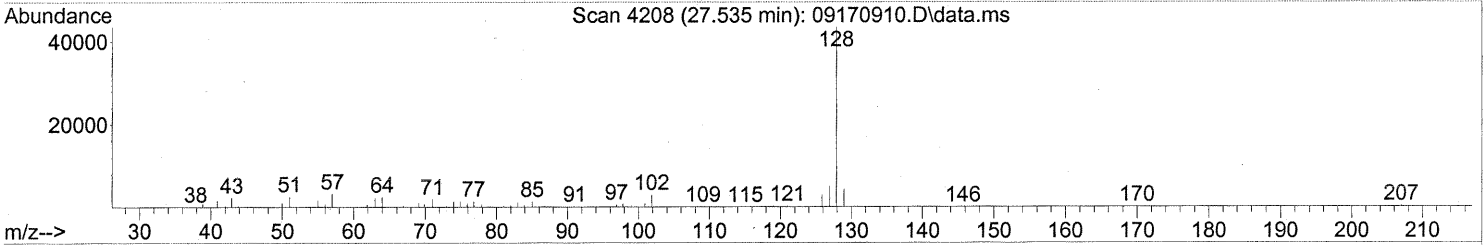
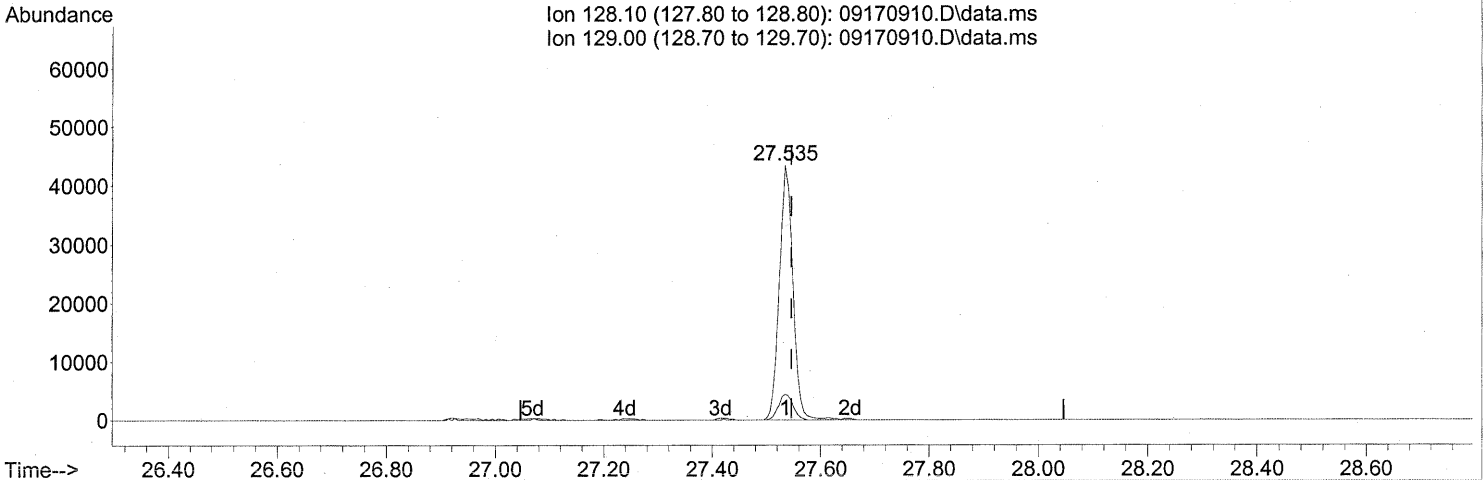
(91) d-Limonene (T)
 25.344min (-0.006) 12.09ng
 response 232244

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	82.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170910.D
Acq On : 17 Sep 2009 13:22
Operator : LH
Sample : P0903145-015 (1000mL)
Misc : Environmental H & E 102829
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 17 14:12:43 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(95) Naphthalene (T)
27.535min (-0.011) 0.97ng
response 75537

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.81
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102830
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01282

CAS Project ID: P0903145
CAS Sample ID: P0903145-016

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.66	0.63	0.39	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.63	0.58	0.13	
74-87-3	Chloromethane	0.36	0.13	0.17	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.090	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.048	
64-17-5	Ethanol	6.6	6.3	3.5	3.3	
75-05-8	Acetonitrile	0.73	0.63	0.44	0.38	
107-02-8	Acrolein	1.2	0.63	0.55	0.27	
67-64-1	Acetone	35	6.3	15	2.7	
75-69-4	Trichlorofluoromethane	1.4	0.13	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.2	0.63	0.50	0.26	
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.72	0.13	0.094	0.016	
75-15-0	Carbon Disulfide	ND	0.63	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	0.80	0.63	0.27	0.21	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 9/22/09 **719**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102830
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01282

CAS Project ID: P0903145
CAS Sample ID: P0903145-016

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

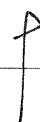
Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	2.0	0.63	0.55	0.17	
110-54-3	n-Hexane	ND	0.63	ND	0.18	
67-66-3	Chloroform	ND	0.13	ND	0.026	
109-99-9	Tetrahydrofuran (THF)	ND	0.63	ND	0.21	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	0.20	0.13	0.064	0.039	
56-23-5	Carbon Tetrachloride	0.59	0.13	0.094	0.020	
110-82-7	Cyclohexane	ND	0.63	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	ND	0.63	ND	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.63	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	ND	0.63	ND	0.17	
591-78-6	2-Hexanone	ND	0.63	ND	0.15	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.016	
123-86-4	n-Butyl Acetate	ND	0.63	ND	0.13	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.



COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
 Client Sample ID: 102830
 Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P0903145-016

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01282

Date Collected: 9/2/09
 Date Received: 9/4/09
 Date Analyzed: 9/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.63	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	ND	0.63	ND	0.15	
179601-23-1	m,p-Xylenes	ND	0.63	ND	0.15	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.15	
111-84-2	n-Nonane	ND	0.63	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.018	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	0.82	0.63	0.15	0.11	
103-65-1	n-Propylbenzene	ND	0.63	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.63	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.63	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	ND	0.63	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	ND	0.085	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

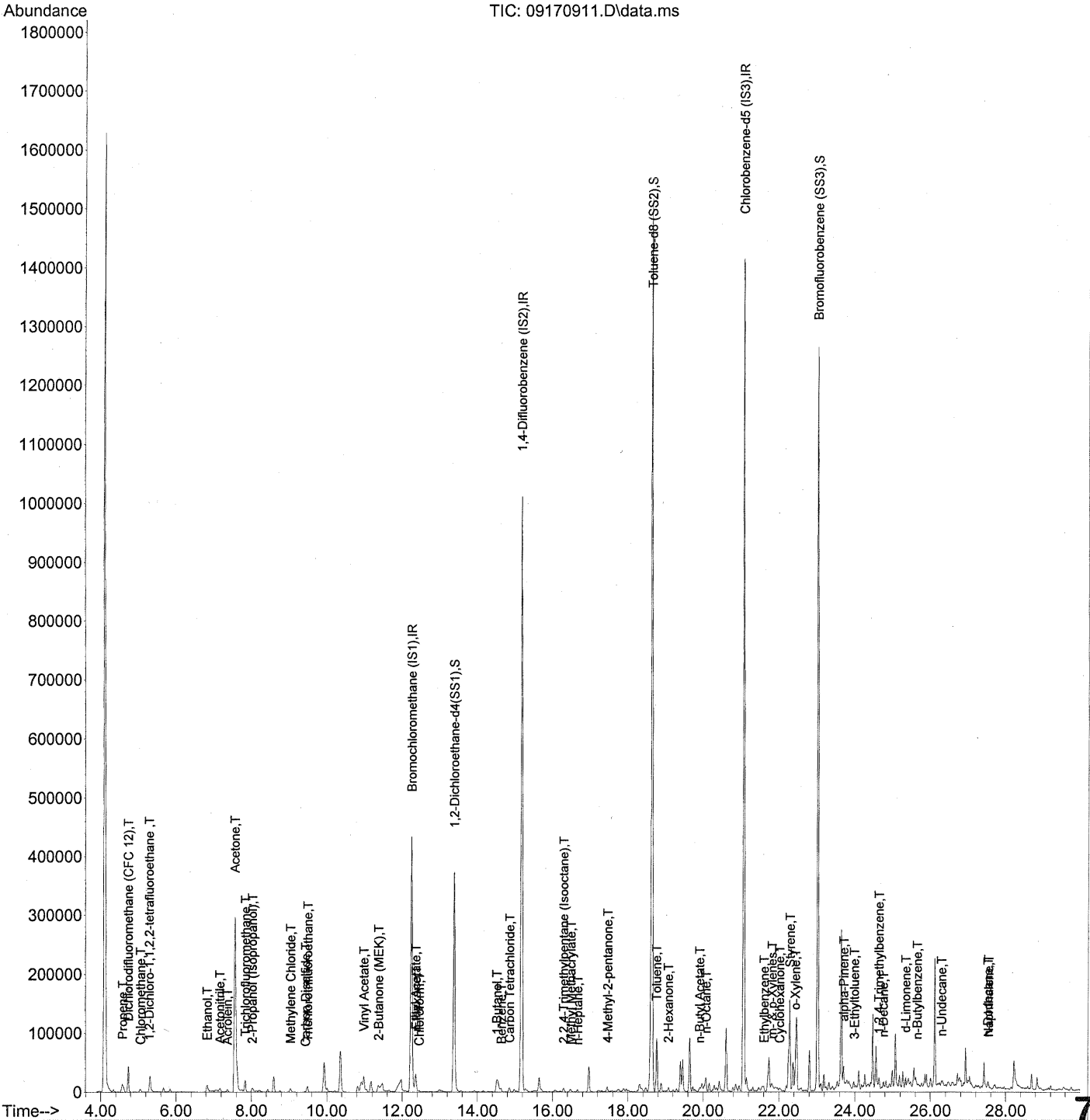
9/22/09

721

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:37:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



722

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830 ✓
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:37:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

in 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	280616	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.17	114	1356167	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	579392	25.000	ng	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.38	65	375260	24.266	ng	-0.04
Spiked Amount	25.000			Recovery =	97.08%	✓
57) Toluene-d8 (SS2)	18.63	98	1417807	24.446	ng	-0.01
Spiked Amount	25.000			Recovery =	97.80%	✓
73) Bromofluorobenzene (SS3)	23.02	174	561560	27.020	ng	0.00
Spiked Amount	25.000			Recovery =	108.08%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.58	42	6017	0.527 ng		88
3) Dichlorodifluoromethan...	4.74	85	49361	2.259 ng		99
4) Chloromethane	5.06	50	5096	0.285 ng		99
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1120	0.085 ng		75
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.76	54	55	N.D.		
8) Bromomethane	6.22	94	284	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	6.83	45	43590m	5.262 ng		
11) Acetonitrile	7.17	41	12156	0.580 ng		98
12) Acrolein	7.36	56	6117	0.992 ng		94
13) Acetone	7.56	58	229242	27.469 ng	#	78
14) Trichlorofluoromethane	7.84	101	22240	1.099 ng		100
15) 2-Propanol (Isopropanol)	8.03	45	28284m	0.984 ng		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.04	59	1039	N.D.		
19) Methylene Chloride	9.04	84	1970	0.155 ng	#	78
20) 3-Chloro-1-propene (Al...	9.14	41	107	N.D.		
21) Trichlorotrifluoroethane	9.49	151	5695	0.571 ng		87
22) Carbon Disulfide	9.43	76	2997	0.068 ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	10.98	86	10743	4.275 ng	#	1
27) 2-Butanone (MEK)	11.37	72	5066	0.632 ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.36	61	6399	1.572 ng		100
31) n-Hexane	12.37	57	2492	0.155 ng		723

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:37:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	1575	0.080	ng	91
34) Tetrahydrofuran (THF)	13.03	72	186	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	568	N.D.		
38) 1,1,1-Trichloroethane	13.92	97	839	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.52	56	31948	2.611	ng	82
41) Benzene	14.63	78	7779	0.161	ng	99
42) Carbon Tetrachloride	14.86	117	6839	0.470	ng	99
43) Cyclohexane	15.05	84	518	N.D.		
44) tert-Amyl Methyl Ether	15.59	73	65	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	6556	0.135	ng	82
50) Methyl Methacrylate	16.49	100	1263	0.227	ng #	47
51) n-Heptane	16.66	71	954	0.077	ng #	78
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	756	0.070	ng #	60
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	21476	0.397	ng	98
59) 2-Hexanone	19.08	43	3847	0.147	ng	91
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	2814	0.094	ng #	41
63) n-Octane	20.07	57	4809	0.473	ng	95
64) Tetrachloroethene	20.25	166	812	N.D.		
65) Chlorobenzene	21.13	112	803	N.D.		
66) Ethylbenzene	21.61	91	4915	0.083	ng	94
67) m- & p-Xylenes	21.82	91	11333	0.244	ng	94
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.29	104	2178	0.057	ng	98
70) o-Xylene	22.44	91	4734	0.100	ng #	31
71) n-Nonane	22.72	43	692	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.45	83	648	N.D.		
74) Cumene	23.20	105	1811	N.D.		
75) alpha-Pinene	23.70	93	19921	0.652	ng	98
76) n-Propylbenzene	23.84	91	2781	N.D.		
77) 3-Ethyltoluene	23.99	105	4788	0.078	ng	92
78) 4-Ethyltoluene	24.03	105	2448	N.D.		
79) 1,3,5-Trimethylbenzene	24.12	105	2023	N.D.		

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 18 11:37:14 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

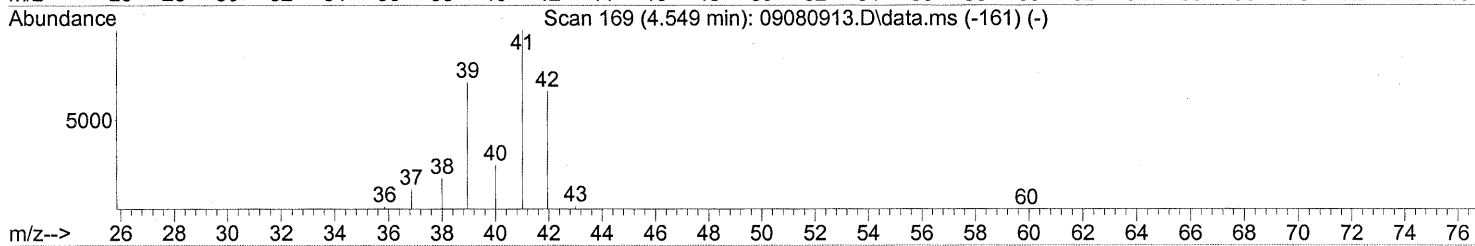
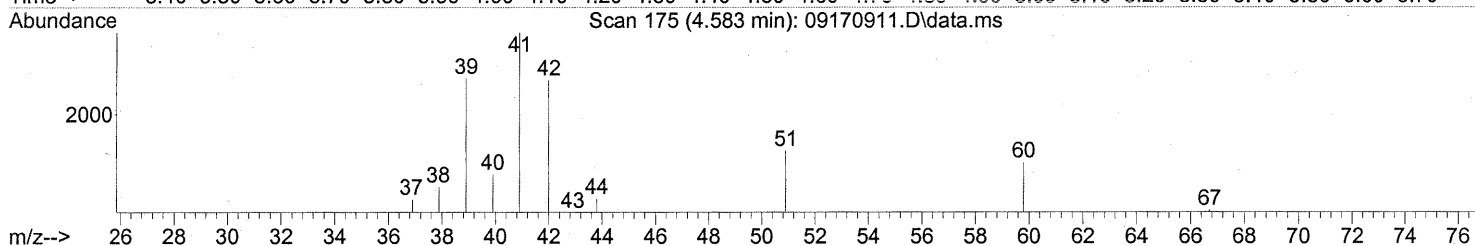
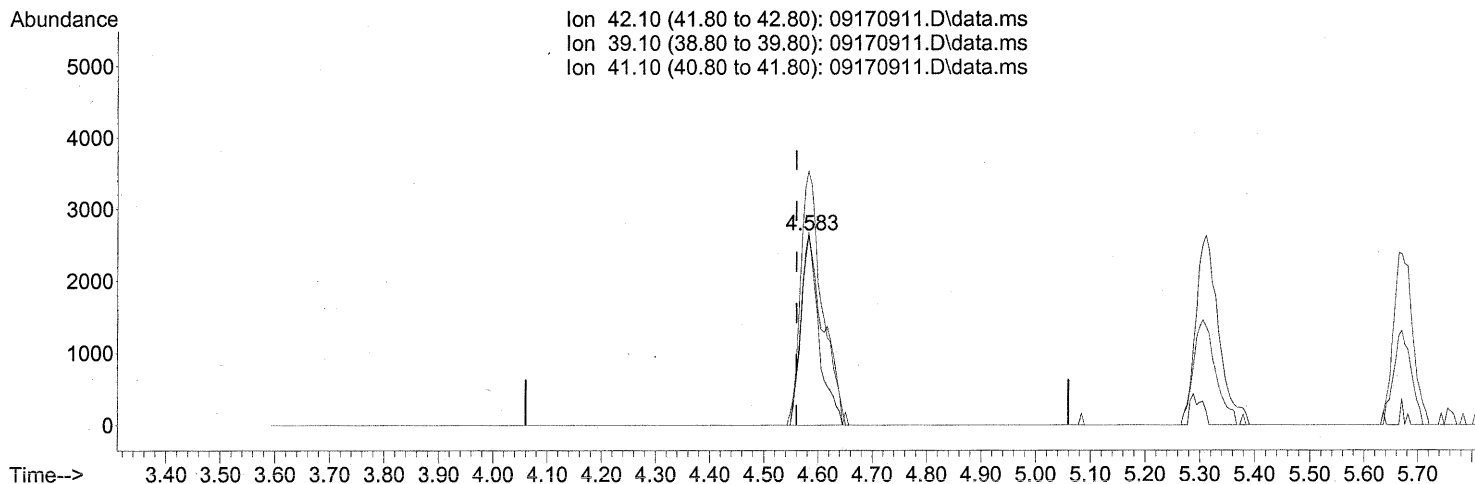
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.32	118	55	N.D.		
81) 2-Ethyltoluene	24.36	105	2597	N.D.		
82) 1,2,4-Trimethylbenzene	24.63	105	5157	0.096 ng		89
83) n-Decane	24.75	57	4187	0.149 ng	#	50
84) Benzyl Chloride	24.79	91	931	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	51	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	373	N.D.		
87) sec-Butylbenzene	24.97	105	1054	N.D.		
88) 4-Isopropyltoluene (p-...	25.16	119	1800	N.D.		
89) 1,2,3-Trimethylbenzene	25.16	105	1761	N.D.		
90) 1,2-Dichlorobenzene	24.91	146	373	N.D.		
91) d-Limonene	25.34	68	4797	0.248 ng		88
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	2527	0.078 ng	#	36
94) 1,2,4-Trichlorobenzene	27.39	180	120	N.D.		
95) Naphthalene	27.53	128	5445	0.070 ng		99
96) n-Dodecane	27.52	57	2644	0.083 ng	#	16
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.02	55	3340	0.167 ng	#	75
99) tert-Butylbenzene	24.63	119	1367	N.D.		
100) n-Butylbenzene	25.65	91	2717	0.050 ng	#	35

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170911.D\data.ms

(2) Propene (T)

4.583min (+0.023) 0.53ng

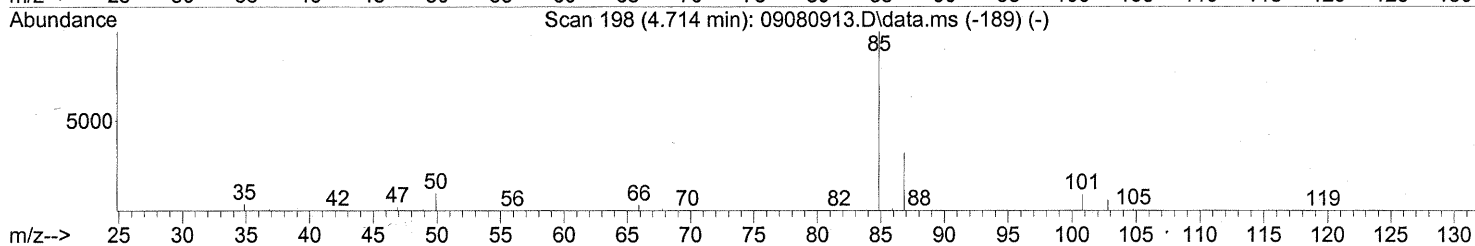
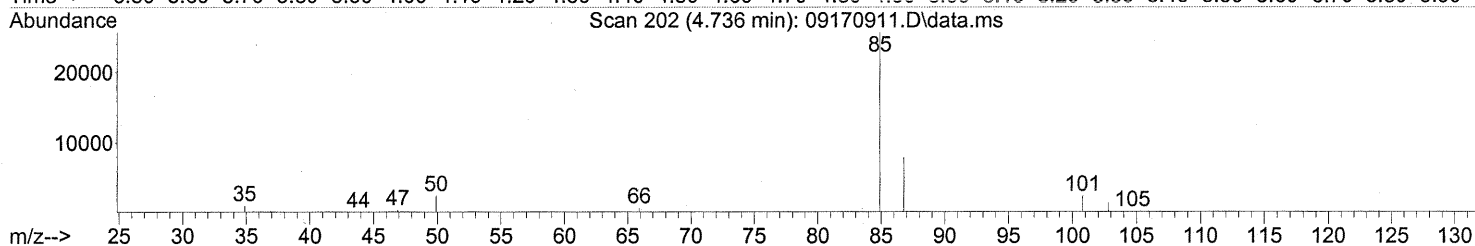
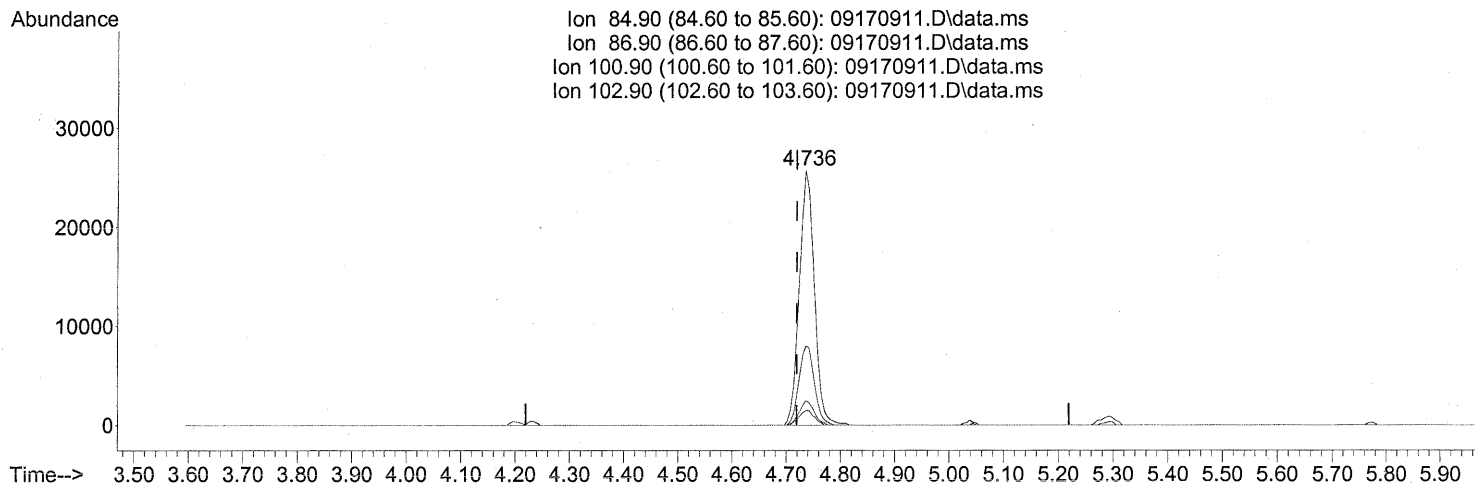
response 6017

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	129.03
41.10	152.10	160.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170911.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.736min (+0.017) 2.26ng

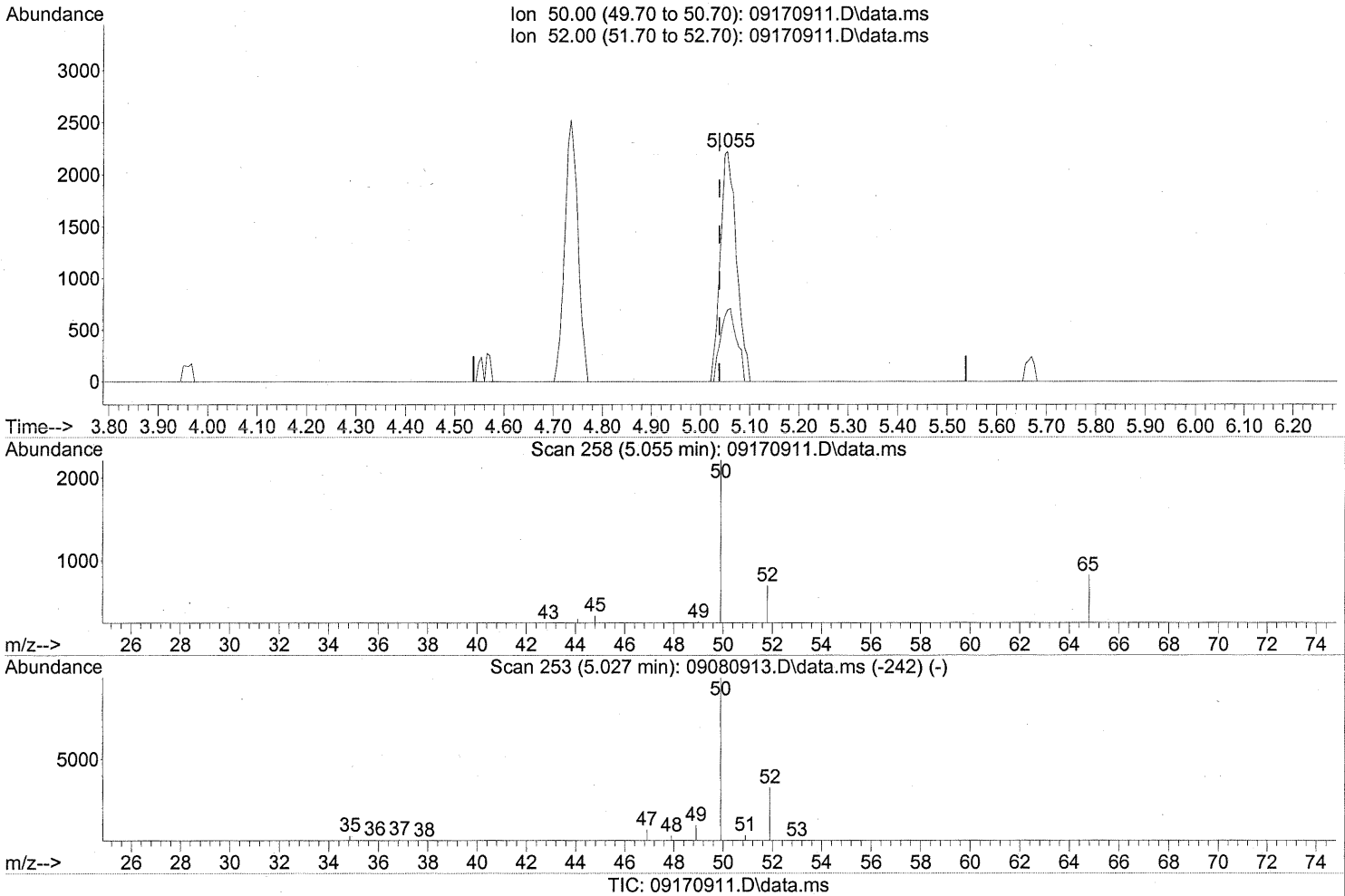
response 49361

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	31.99
100.90	8.60	9.43
102.90	5.90	5.97

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



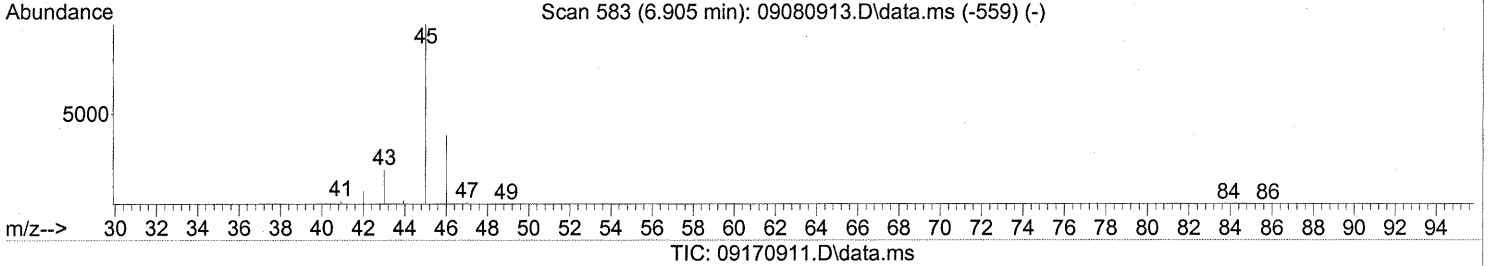
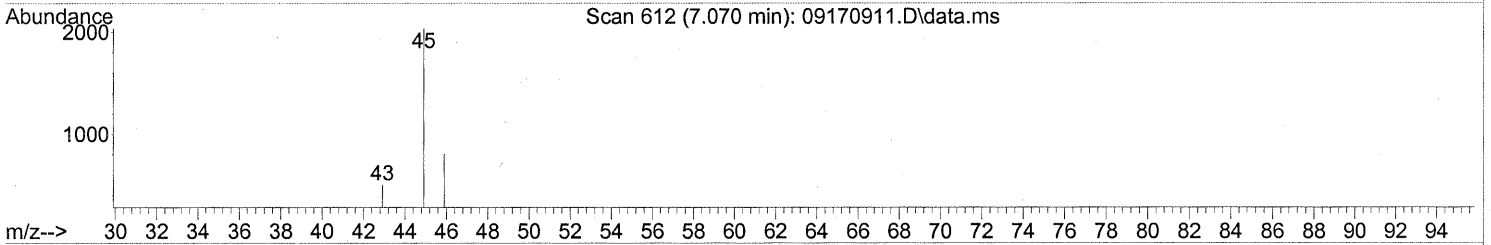
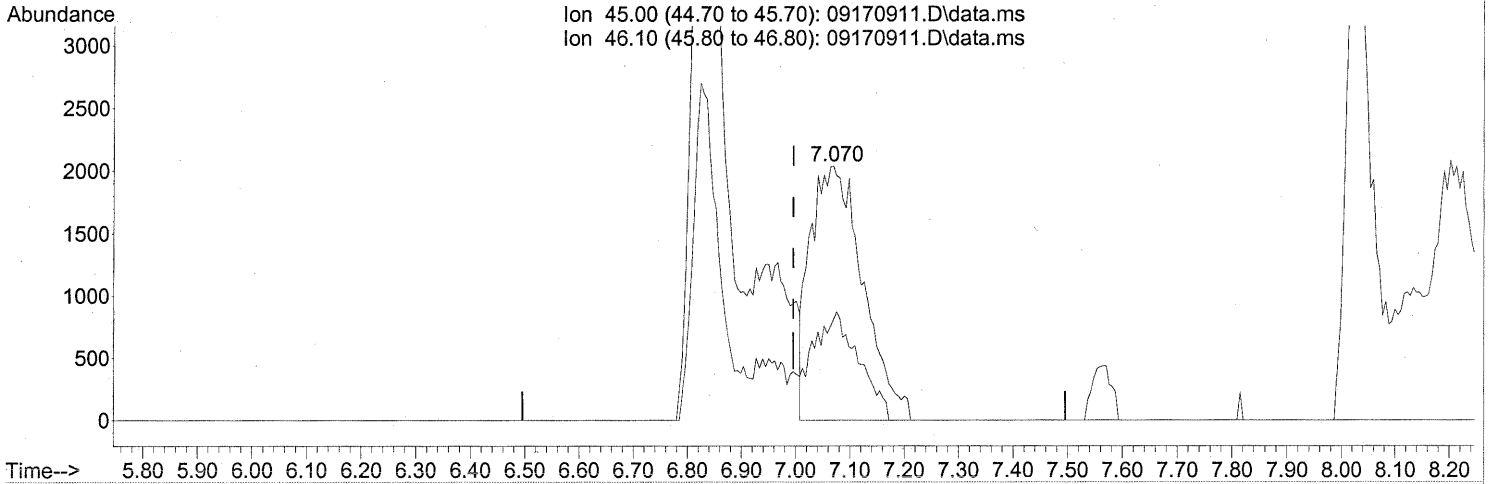
(4) Chloromethane (T)
 5.055min (+0.017) 0.28ng
 response 5096

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	31.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.070min (+0.074) 1.66ng

response 13759

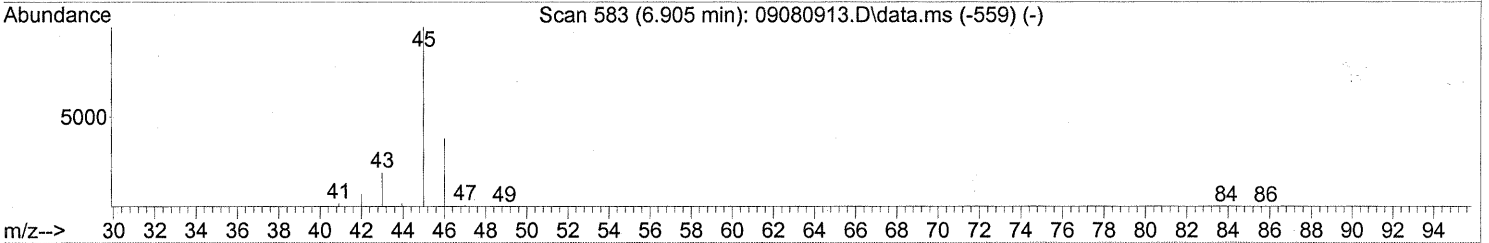
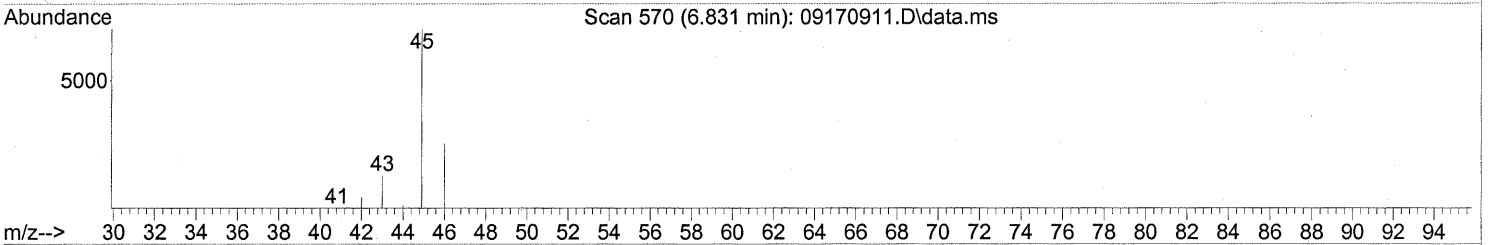
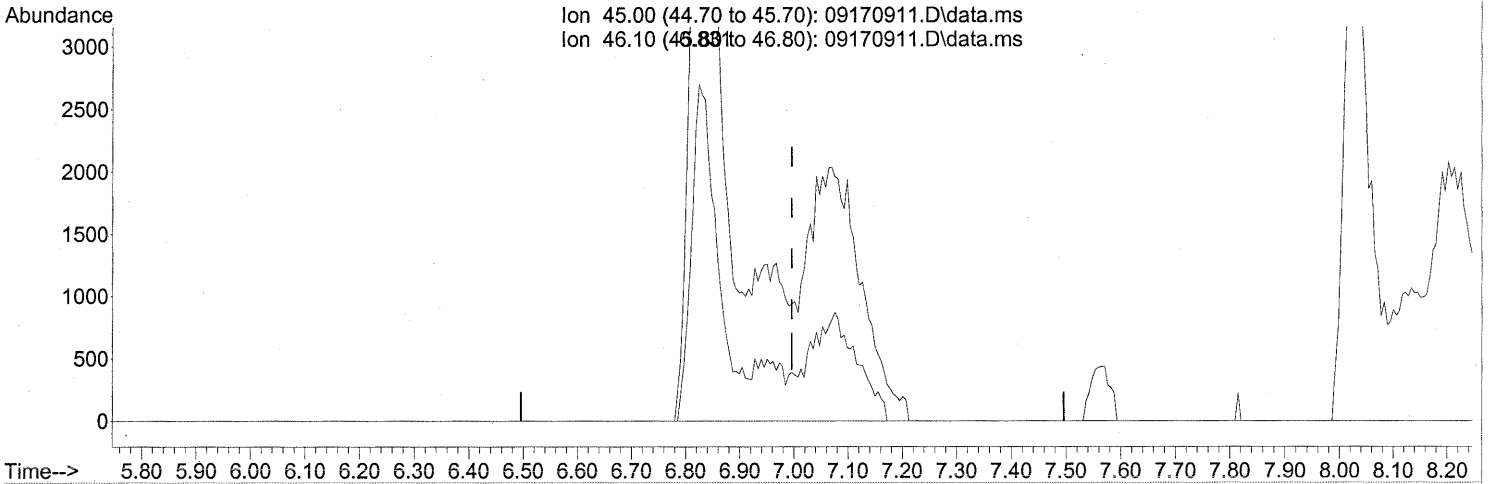
SP

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	34.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.831min (-0.165) 5.26ng m
 response 43590

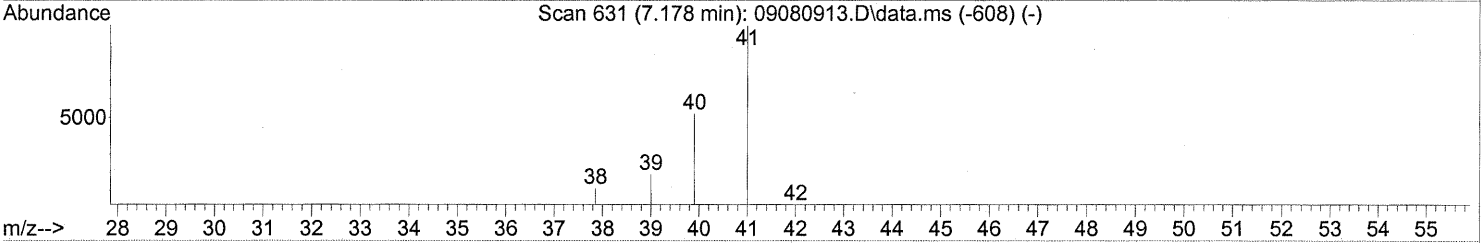
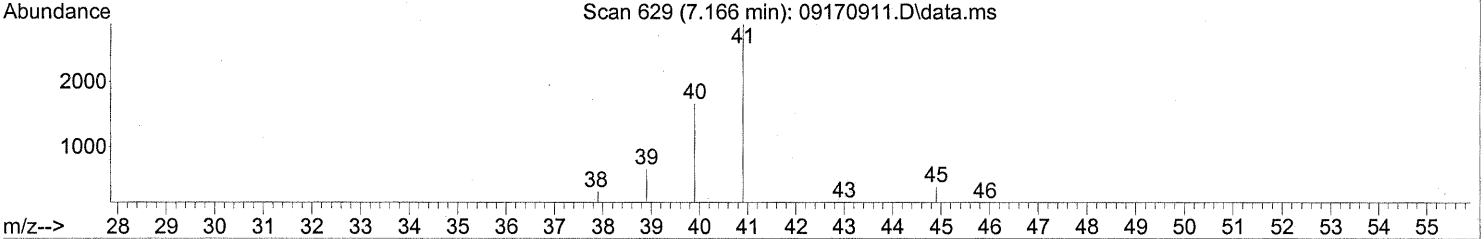
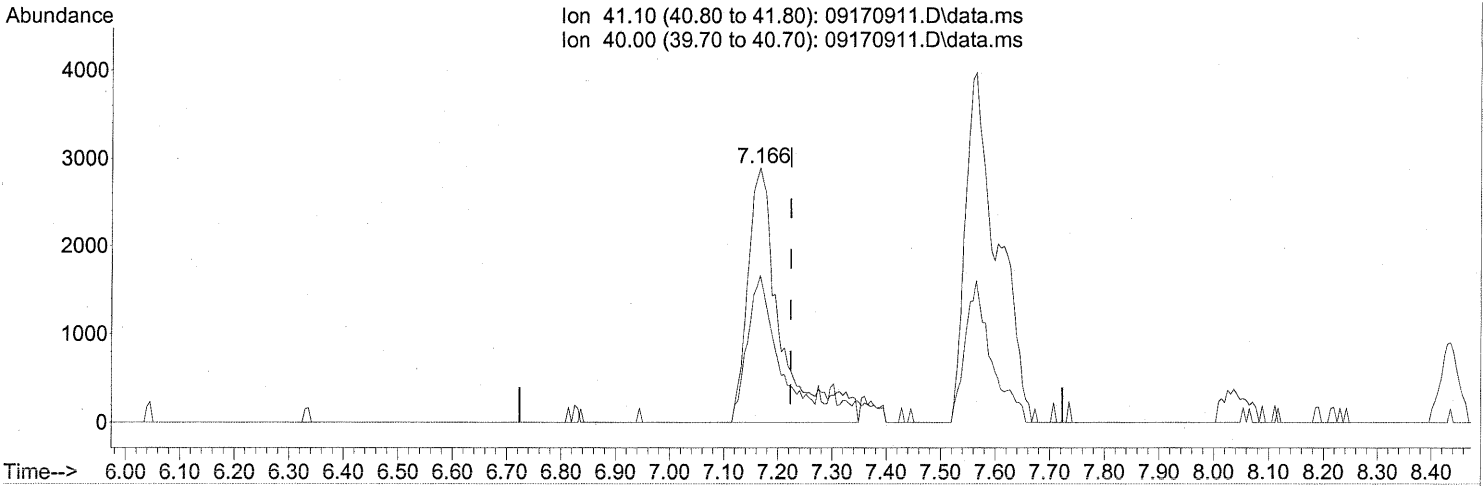
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	10.93#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
LH 9/21/09
Ben 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170911.D\data.ms

(11) Acetonitrile (T)

7.166min (-0.057) 0.58ng

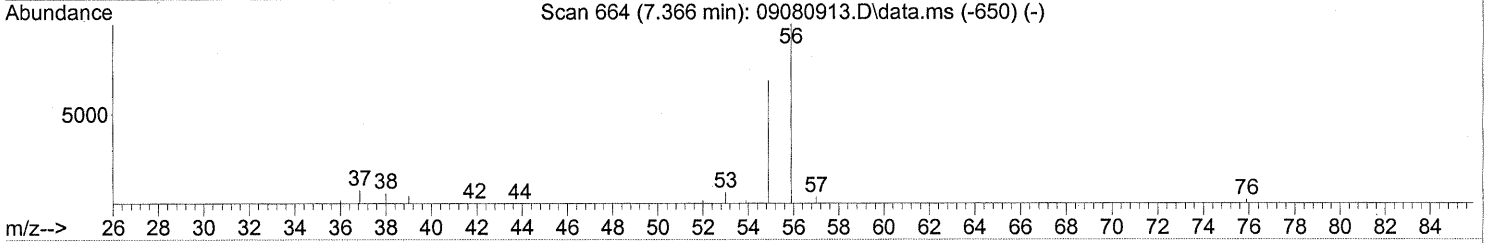
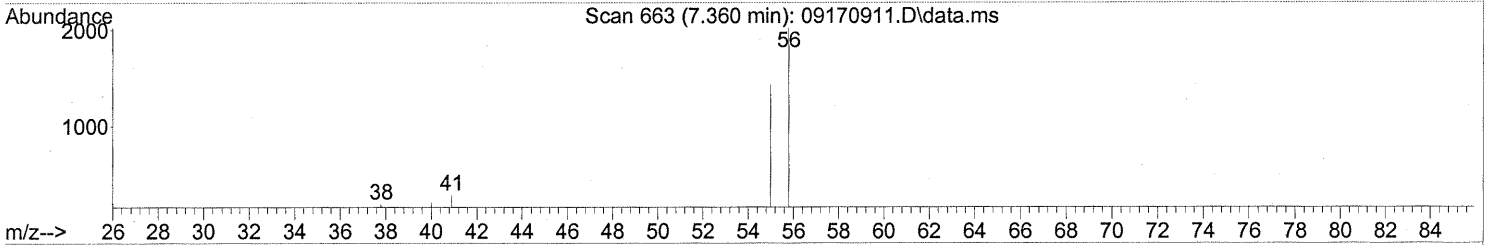
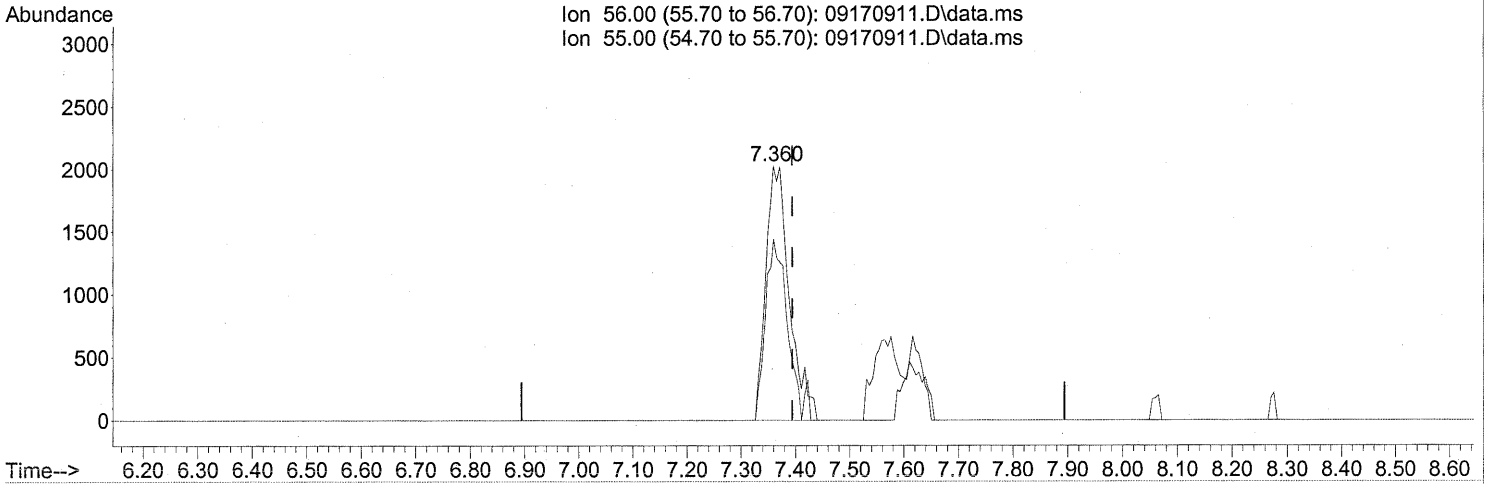
response 12156

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	53.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



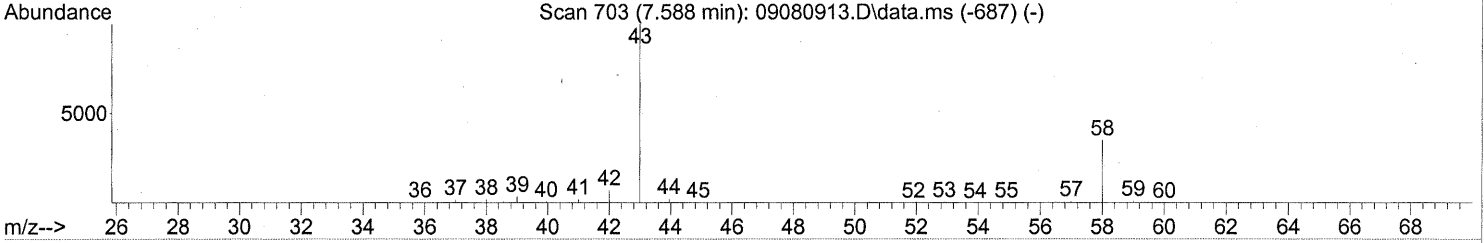
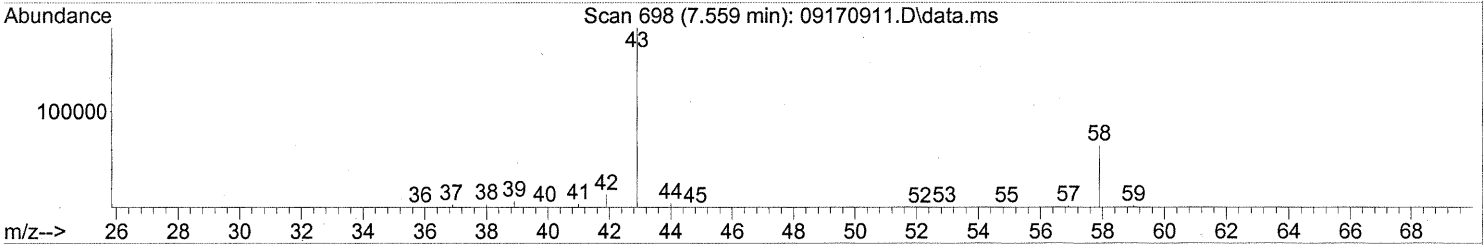
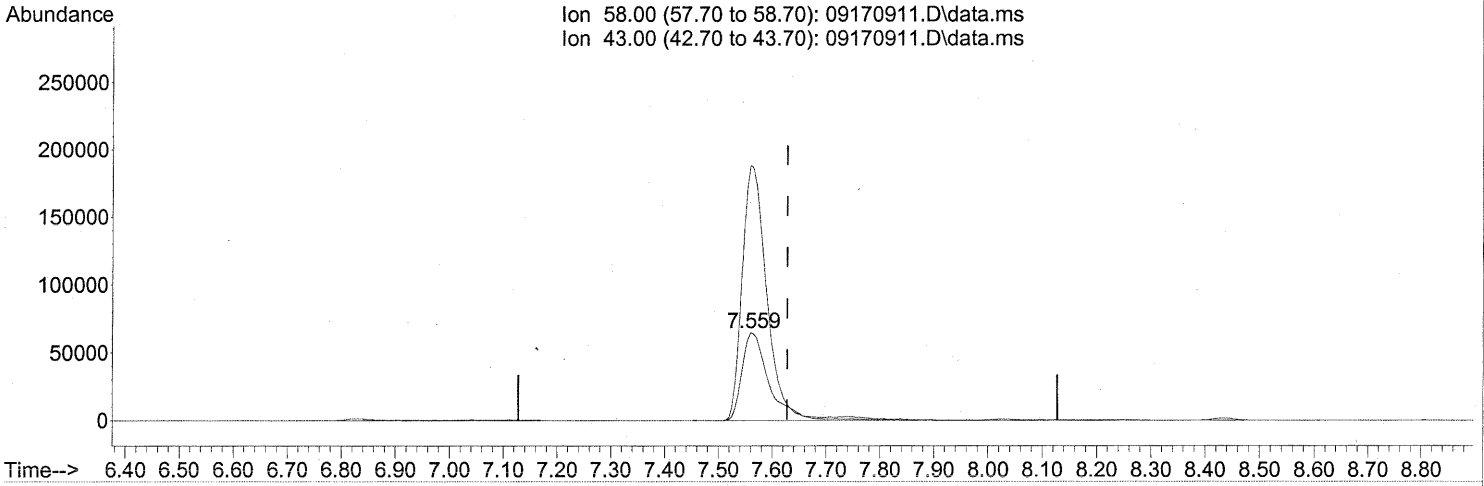
TIC: 09170911.D\data.ms

(12) Acrolein (T)
7.360min (-0.034) 0.99ng
response 6117
Ion Exp% Act%
56.00 100 100
55.00 69.70 64.67
0.00 0.00 0.00
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170911.D\data.ms

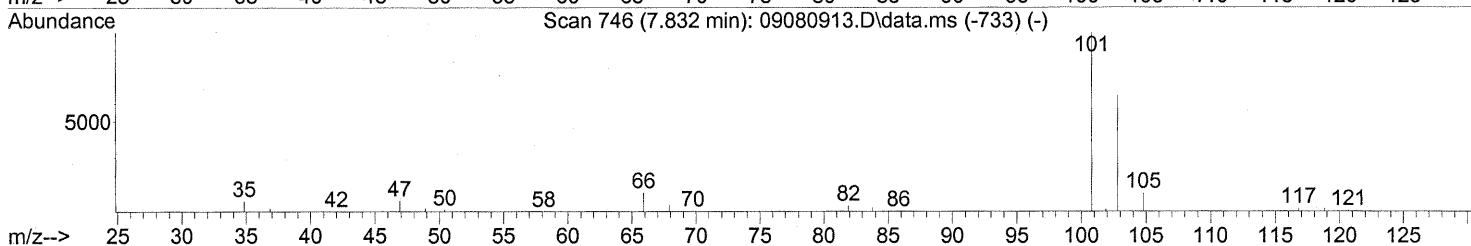
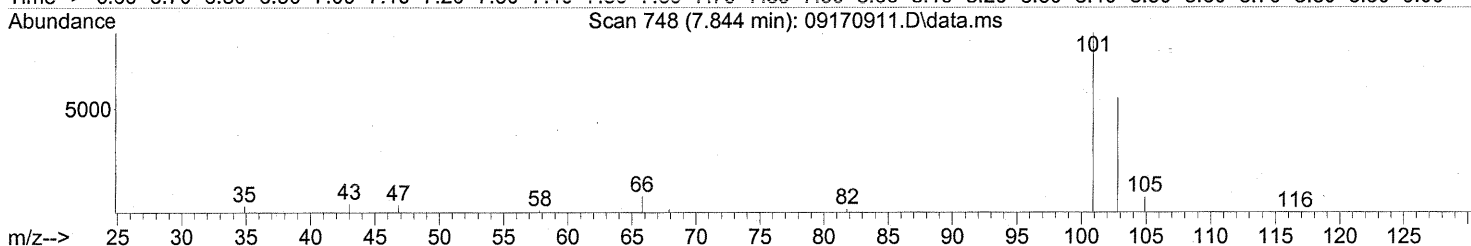
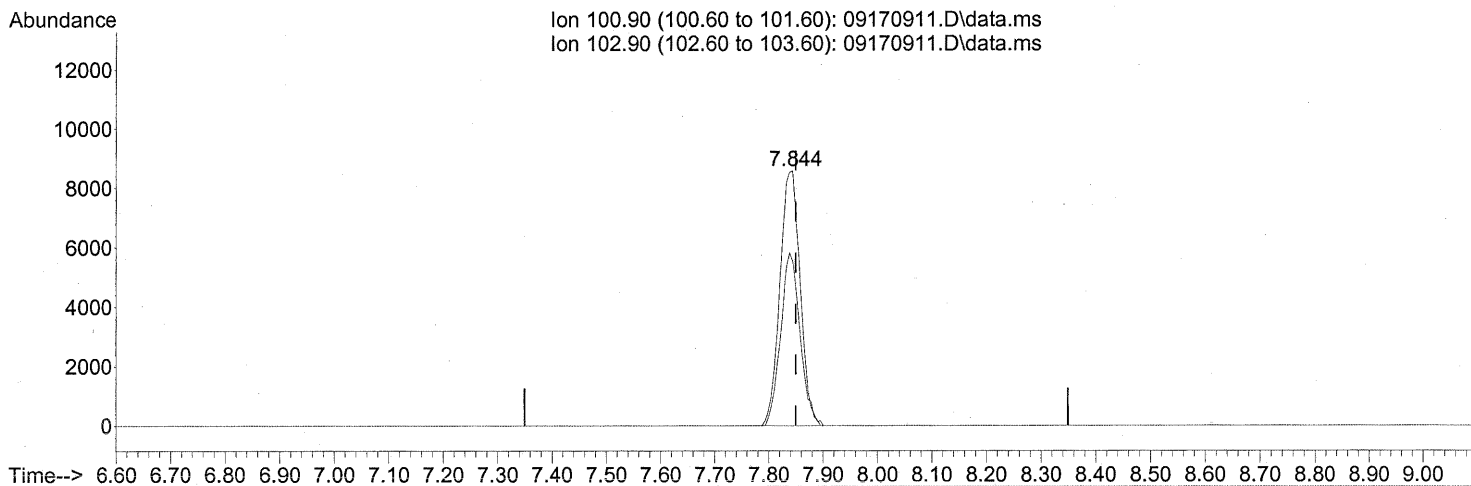
(13) Acetone (T)
7.559min (-0.068) 27.47ng
response 229242

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	265.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170911.D\data.ms

(14) Trichlorofluoromethane (T)

7.844min (-0.006) 1.10ng

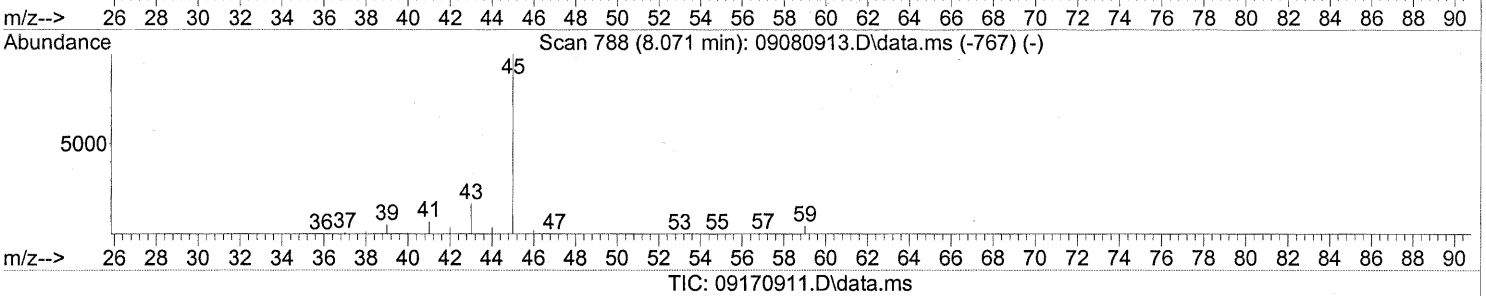
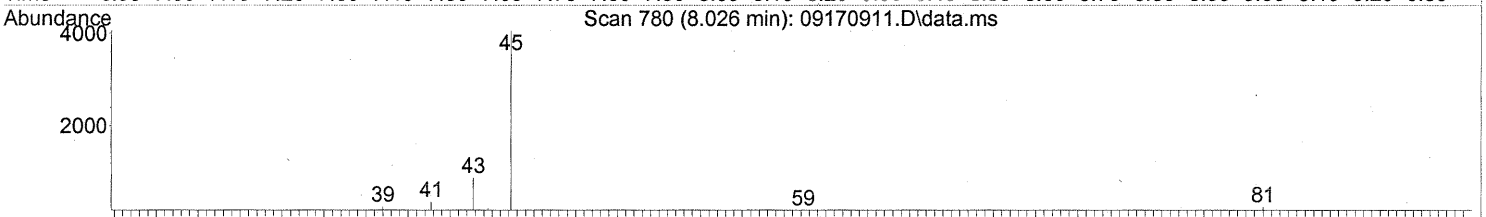
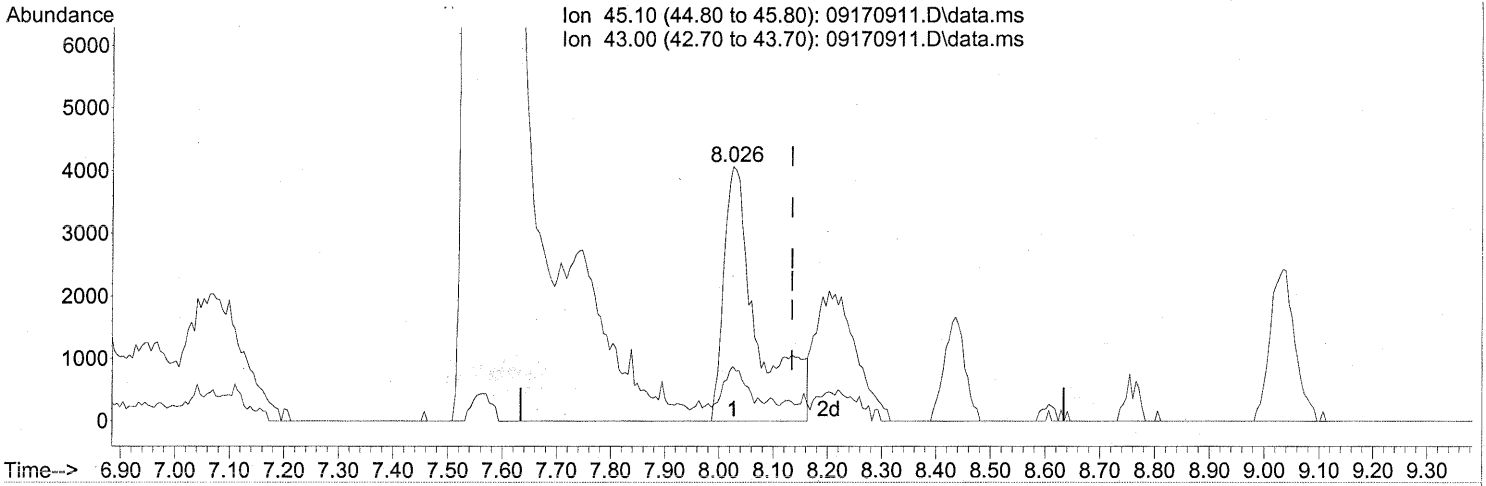
response 22240

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	64.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.026min (-0.108) 0.61ng

response 17602

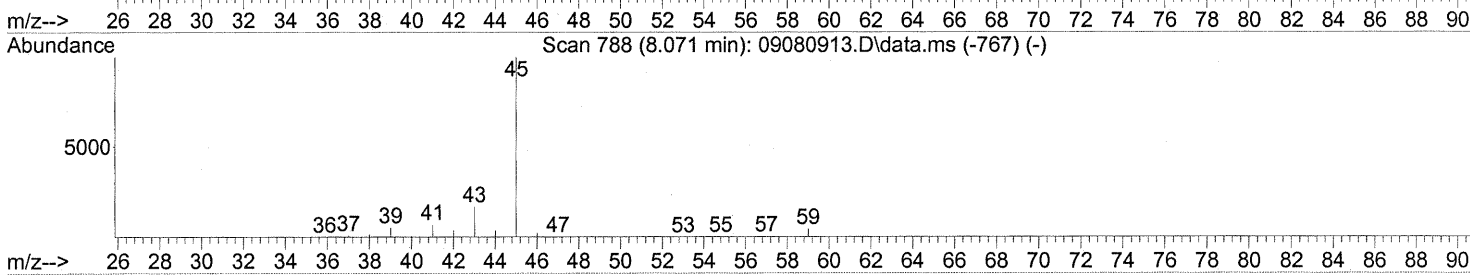
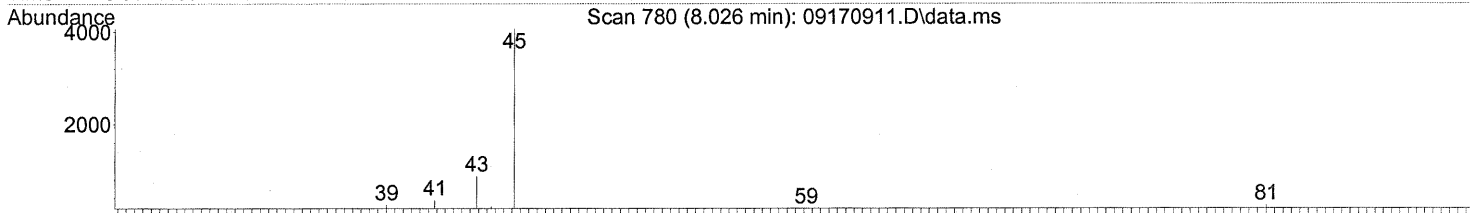
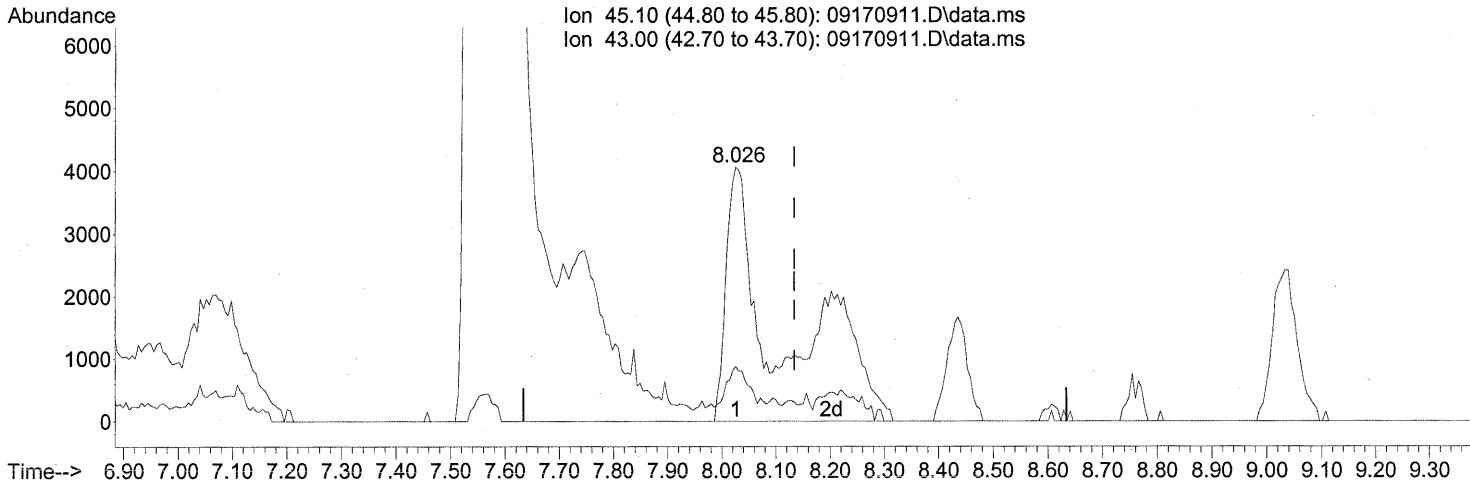
SP

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.026min (-0.108) 0.98ng m

response 28284

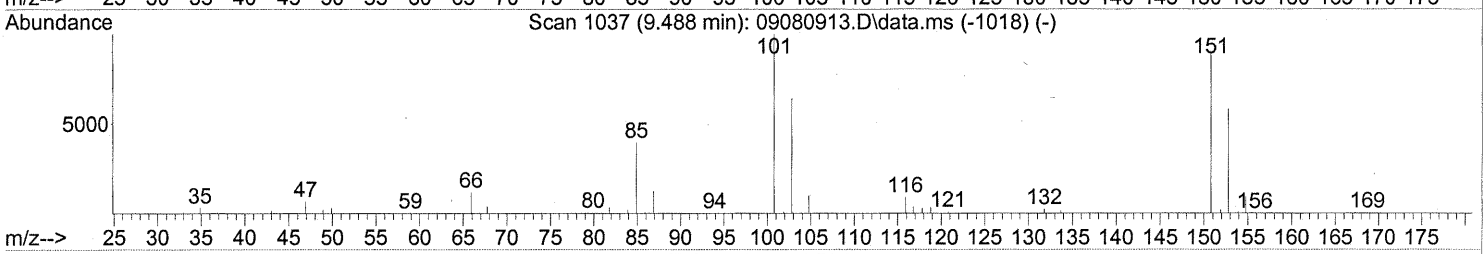
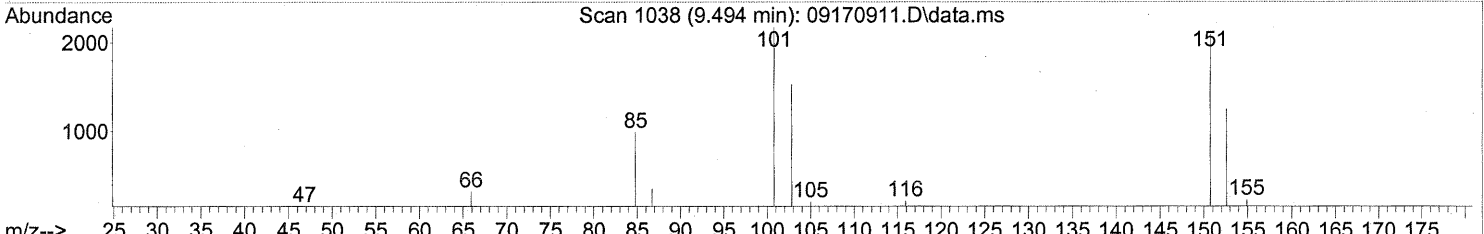
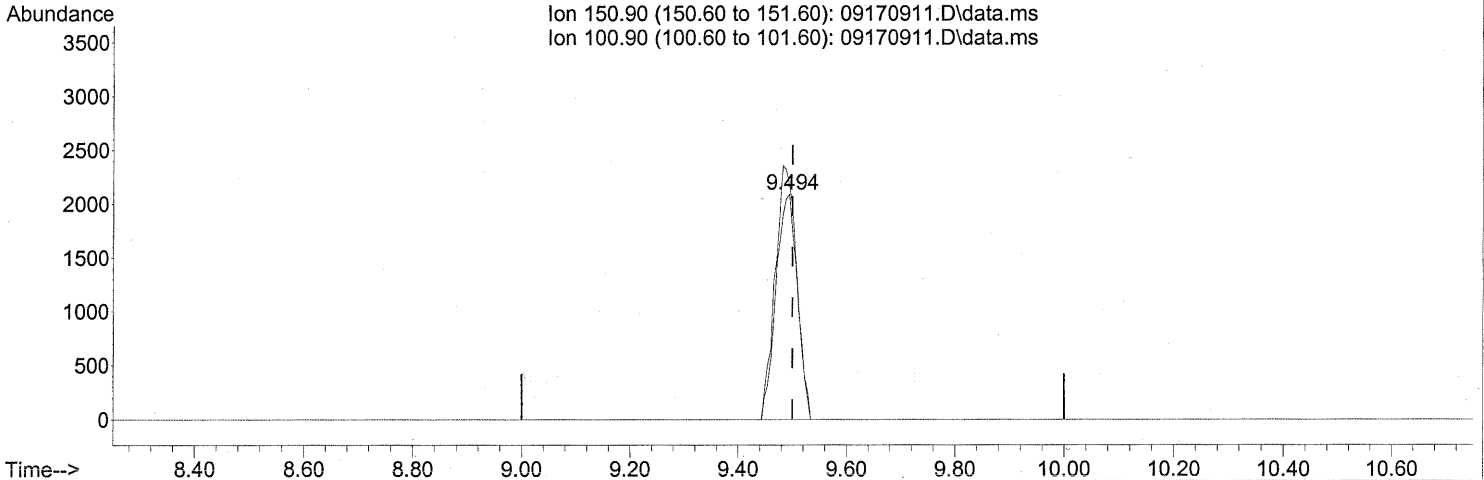
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	9.90
0.00	0.00	0.00
0.00	0.00	0.00

SP -> IC
LH 9/21/09
CM 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170911.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.494min (-0.006) 0.57ng

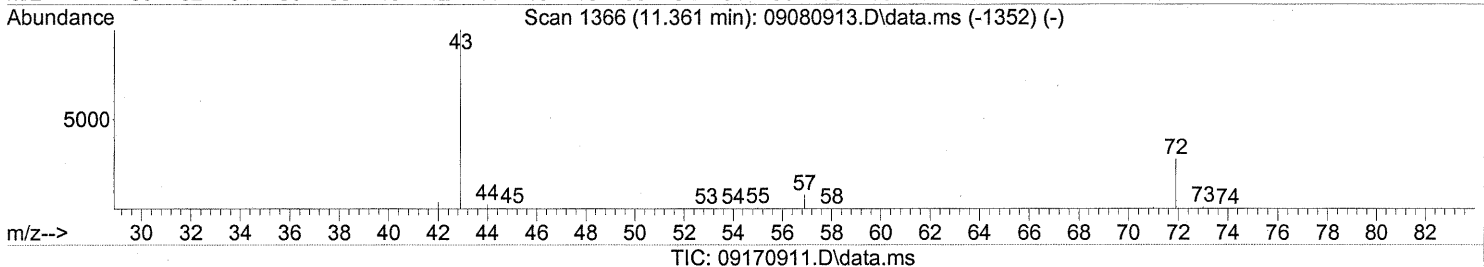
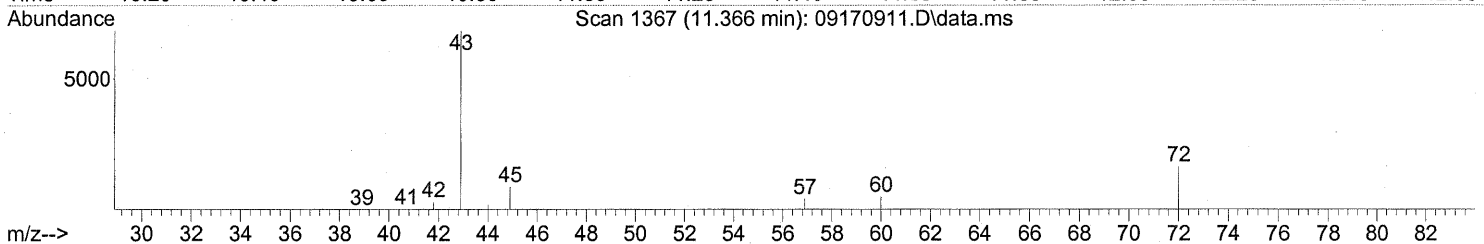
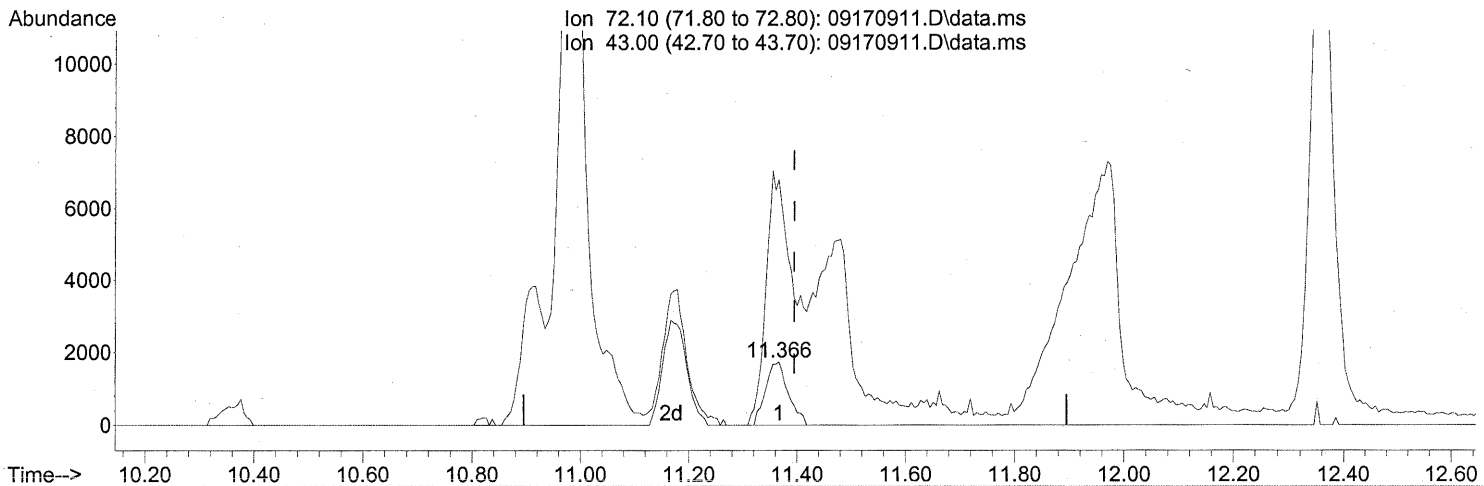
response 5695

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	113.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.366min (-0.028) 0.63ng

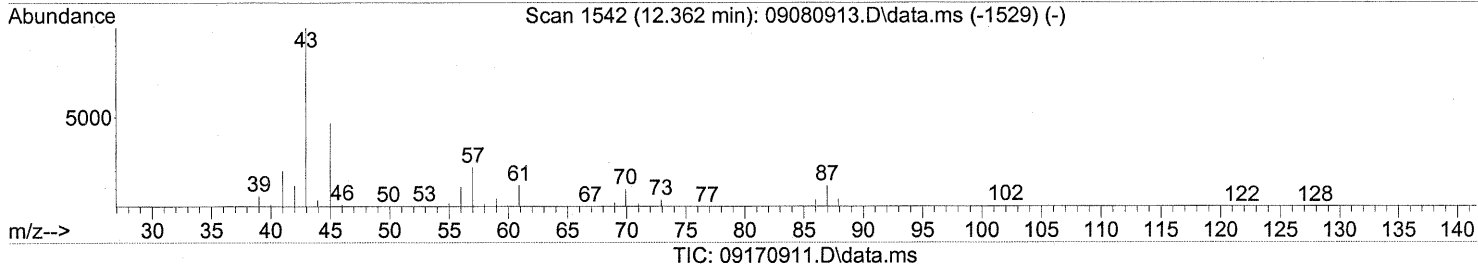
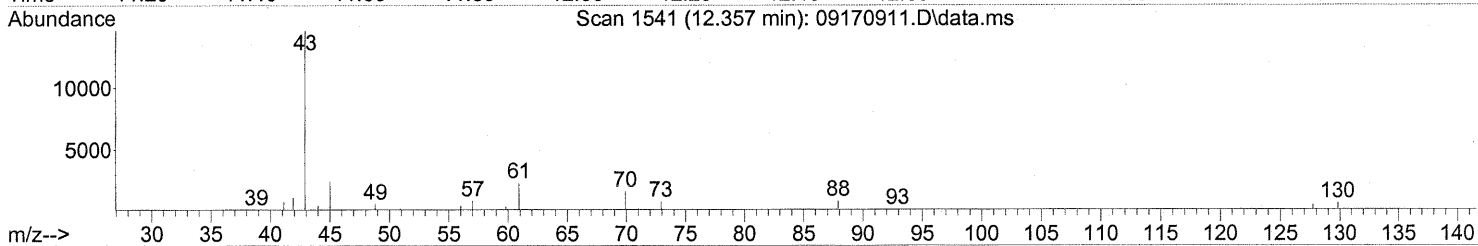
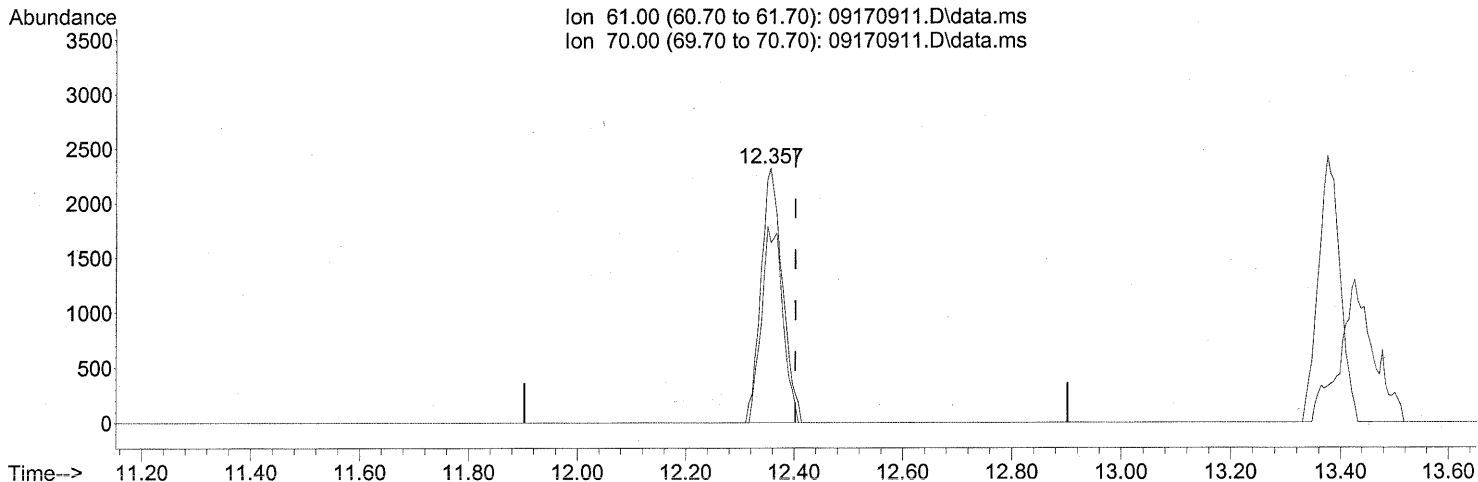
response 5066

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	998.97#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.357min (-0.046) 1.57ng

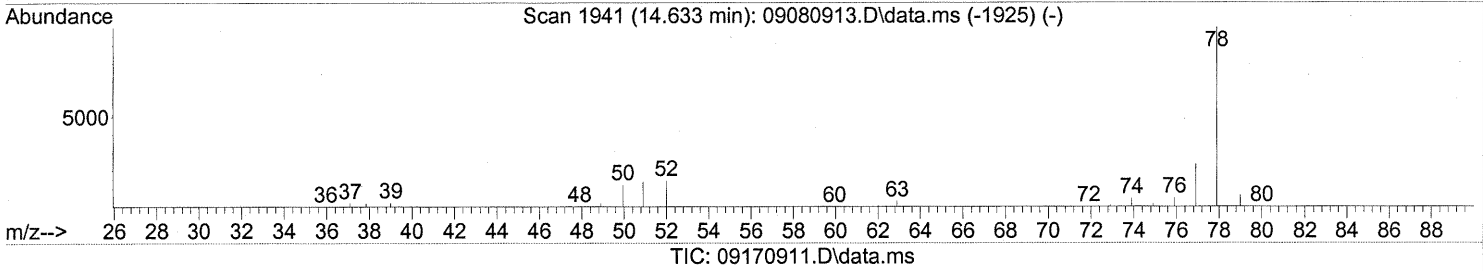
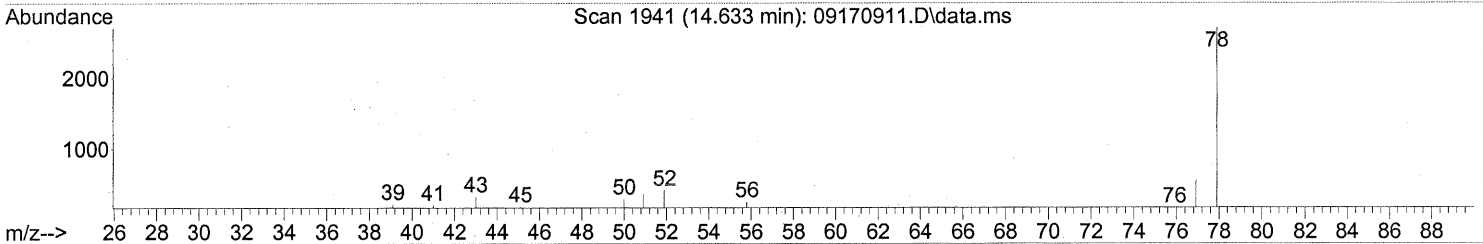
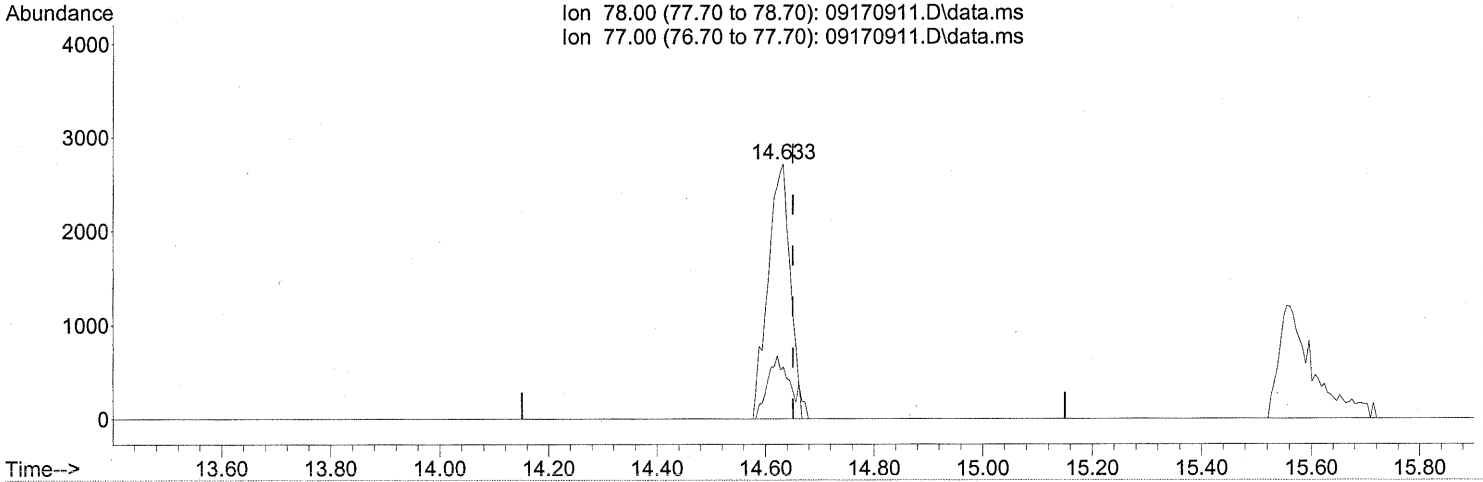
response 6399

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	76.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170911.D
Acq On : 17 Sep 2009 14:00
Operator : LH
Sample : P0903145-016 (1000mL)
Misc : Environmental H & E 102830
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(41) Benzene (T)

14.633min (-0.017) 0.16ng

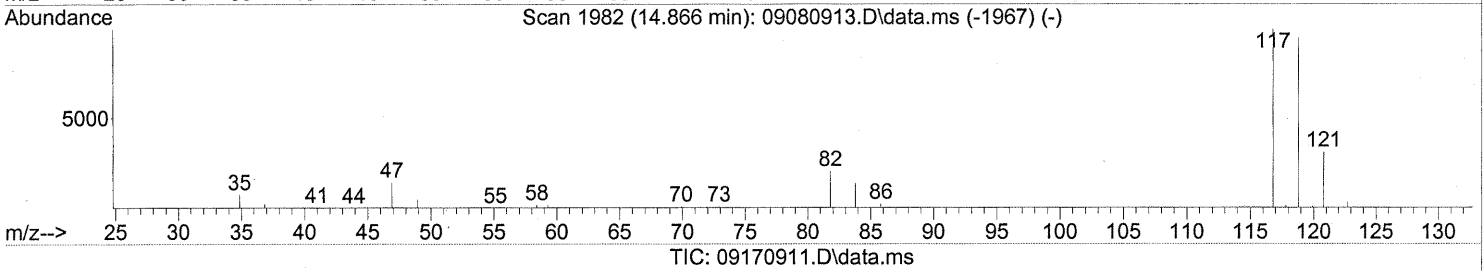
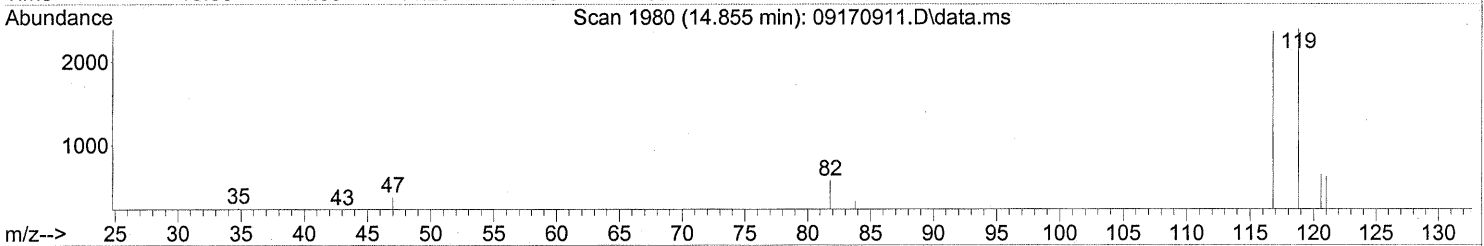
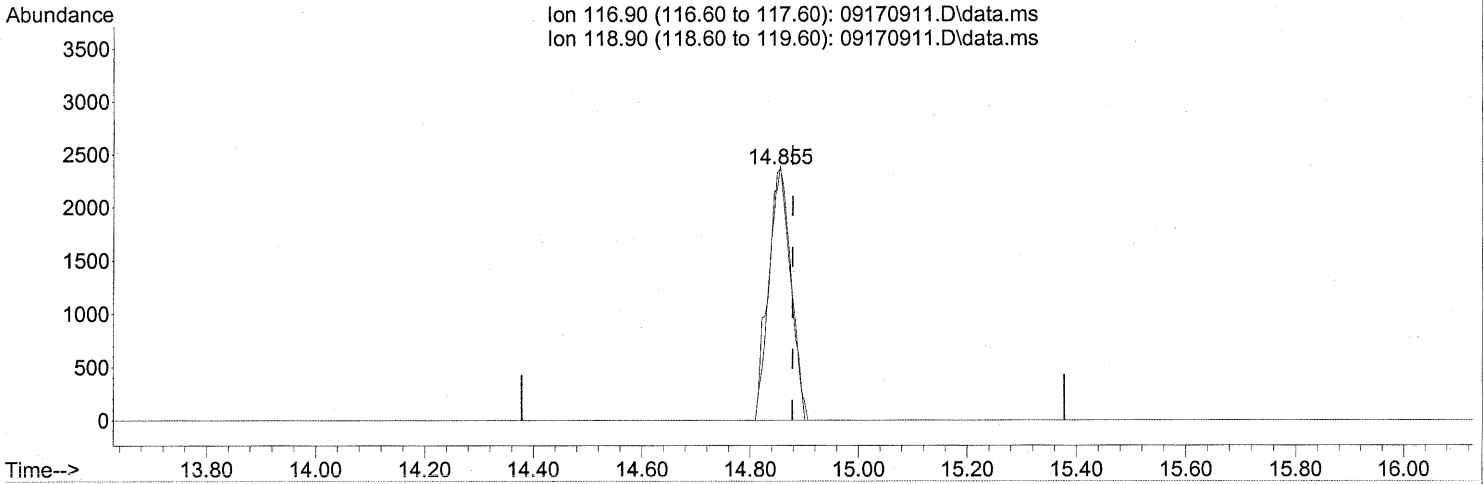
response 7779

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	24.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.855min (-0.023) 0.47ng

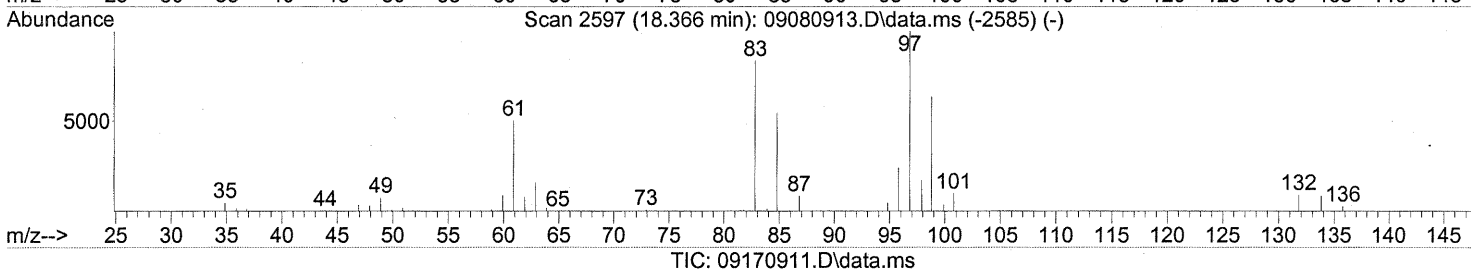
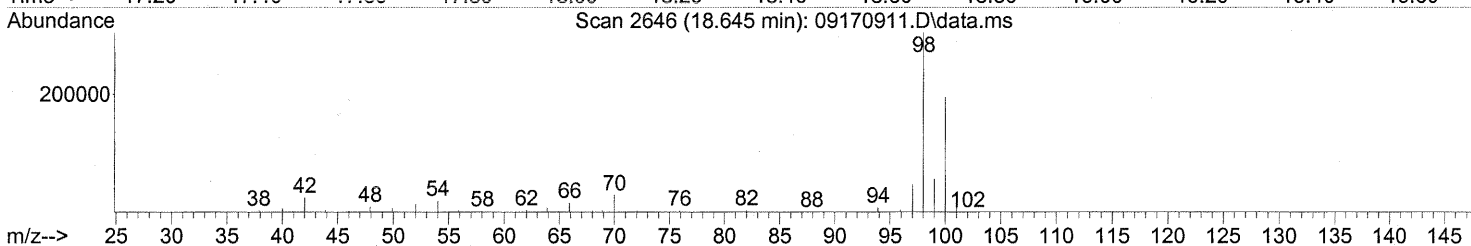
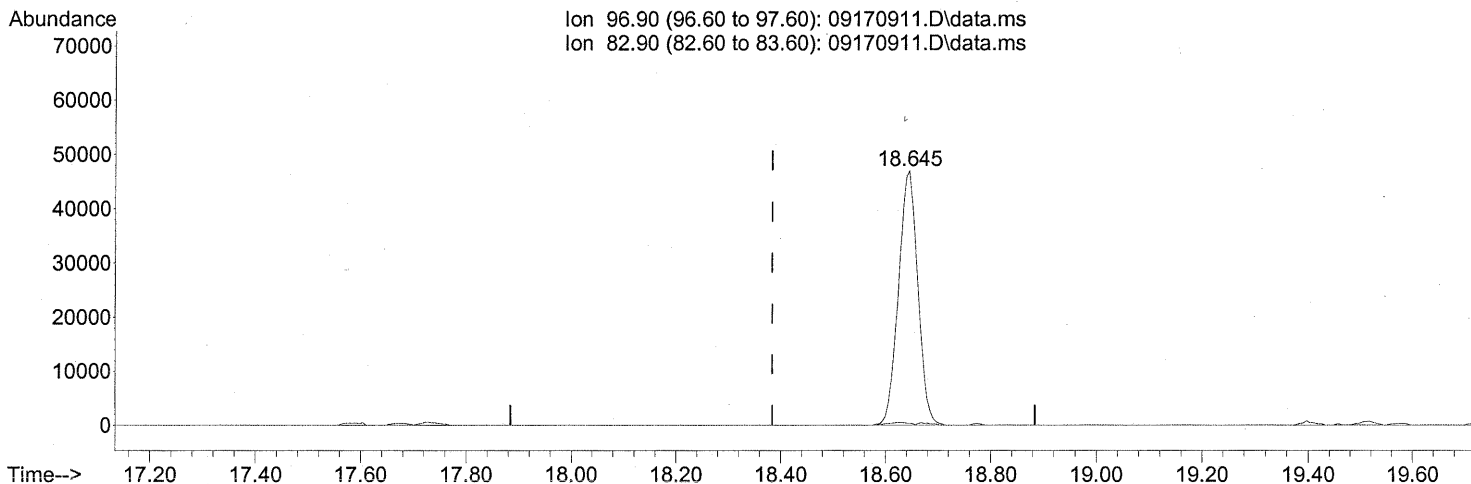
response 6839

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	96.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.85ng

response 119845

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

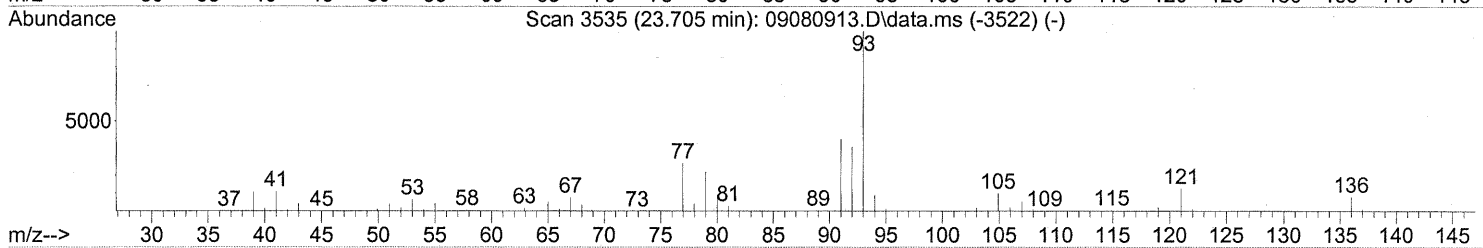
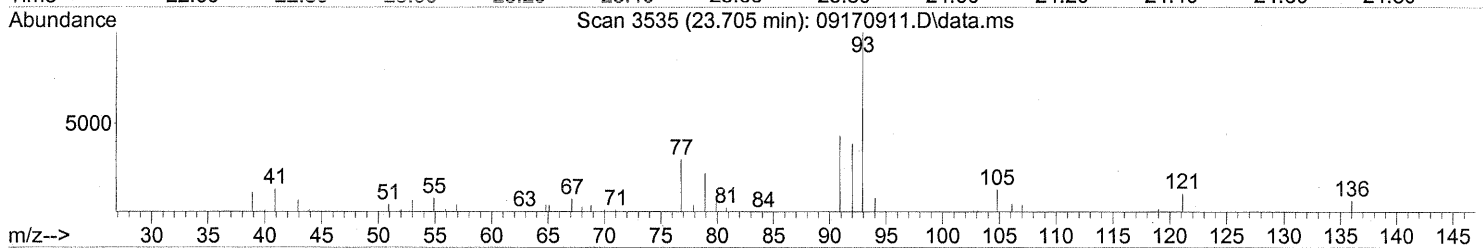
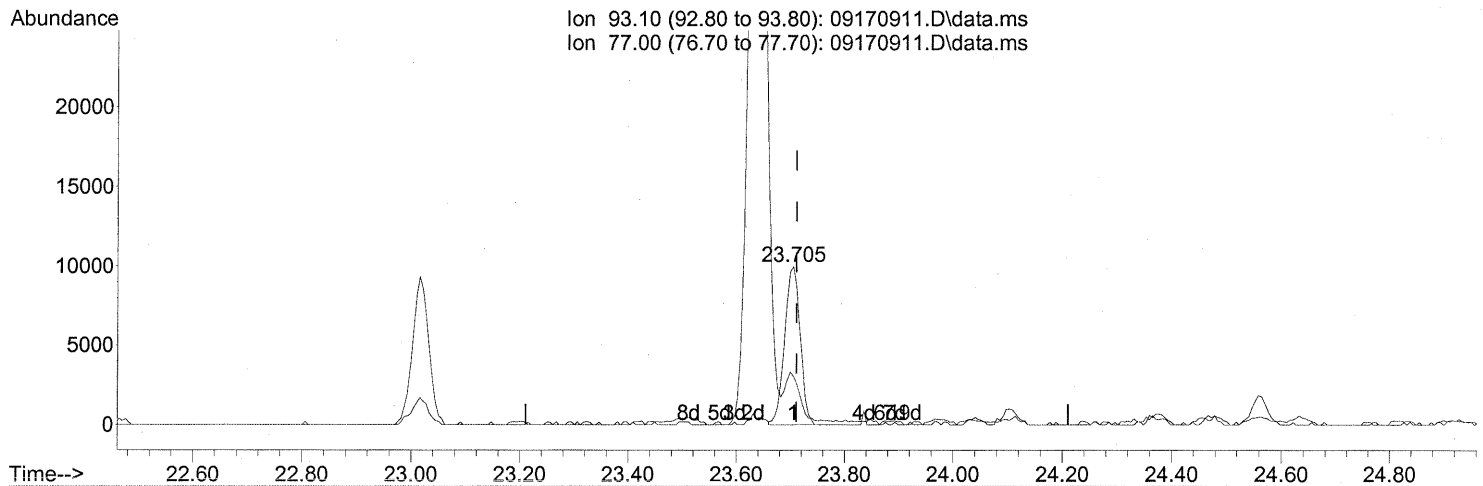
FP LH 9/21/09

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170911.D
 Acq On : 17 Sep 2009 14:00
 Operator : LH
 Sample : P0903145-016 (1000mL)
 Misc : Environmental H & E 102830
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 17 14:53:08 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170911.D\data.ms

(75) alpha-Pinene (T)

23.705min (-0.006) 0.65ng

response 19921

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	31.07
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0903145
 CAS Sample ID: P090914-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/14/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0903145
 CAS Sample ID: P090914-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/14/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

P

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P090914-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

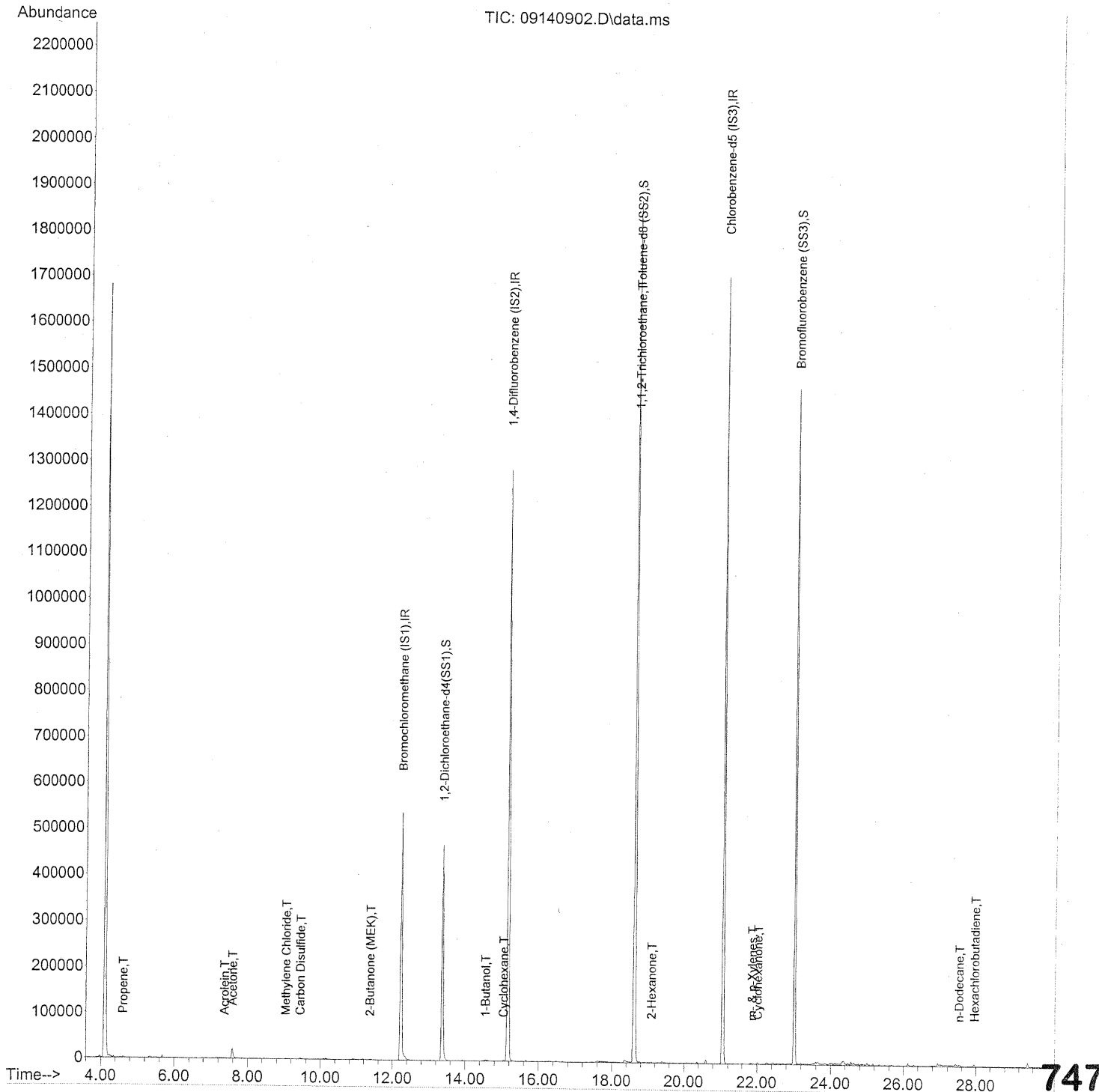
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140902.D
 Acq On : 14 Sep 2009 7:21
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:03:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
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 Operator : LH
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.24	130	348091	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1691740	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.06	82	703330	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.38	65	474885	24.756	ng	-0.04
Spiked Amount	25.000			Recovery =	99.04%	
57) Toluene-d8 (SS2)	18.63	98	1761122	25.015	ng	-0.01
Spiked Amount	25.000			Recovery =	100.04%	
73) Bromofluorobenzene (SS3)	23.02	174	641985	25.447	ng	0.00
Spiked Amount	25.000			Recovery =	101.80%	

Target Compounds

						Qvalue
2) Propene	4.61	42	1049	0.074	ng	# 58
3) Dichlorodifluoromethan...	4.76	85	789	N.D.		
4) Chloromethane	5.08	50	319	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	65	N.D.		
6) Vinyl Chloride	5.50	62	499	N.D.		
7) 1,3-Butadiene	5.78	54	119	N.D.		
8) Bromomethane	6.24	94	351	N.D.		
9) Chloroethane	6.56	64	65	N.D.		
10) Ethanol	6.97	45	368	N.D.		
11) Acetonitrile	7.18	41	874	N.D.		
12) Acrolein	7.37	56	576	0.075	ng	# 70
13) Acetone	7.58	58	14320	1.383	ng	J 90
14) Trichlorofluoromethane	7.86	101	561	N.D.		
15) 2-Propanol (Isopropanol)	8.08	45	1693	N.D.		
16) Acrylonitrile	8.36	53	173	N.D.		
17) 1,1-Dichloroethene	8.85	96	197	N.D.		
18) 2-Methyl-2-Propanol (t...	9.04	59	362	N.D.		
19) Methylene Chloride	9.04	84	963	0.061	ng	84
20) 3-Chloro-1-propene (Al...	9.23	41	794	N.D.		
21) Trichlorotrifluoroethane	9.49	151	317	N.D.		
22) Carbon Disulfide	9.44	76	4912	0.090	ng	89
23) trans-1,2-Dichloroethene	10.47	61	297	N.D.		
24) 1,1-Dichloroethane	10.76	63	641	N.D.		
25) Methyl tert-Butyl Ether	10.89	73	1101	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.37	72	1036	0.104	ng	96
28) cis-1,2-Dichloroethene	12.01	61	342	N.D.		
29) Diisopropyl Ether	12.35	87	55	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.37	57	714	N.D.		

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Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140902.D
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 Operator : LH
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 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:03:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	571	N.D.		
34) Tetrahydrofuran (THF)	13.06	72	179	N.D.		
35) Ethyl tert-Butyl Ether	13.16	87	180	N.D.		
36) 1,2-Dichloroethane	13.54	62	111	N.D.		
38) 1,1,1-Trichloroethane	13.93	97	720	N.D.		
39) Isopropyl Acetate	14.51	61	308	N.D.		
40) 1-Butanol	14.55	56	2502	0.164 ng		98
41) Benzene	14.62	78	2313	N.D.		
42) Carbon Tetrachloride	14.84	117	115	N.D.		
43) Cyclohexane	15.05	84	1266	0.058 ng		97
44) tert-Amyl Methyl Ether	15.55	73	1062	N.D.		
45) 1,2-Dichloropropane	15.85	63	172	N.D.		
46) Bromodichloromethane	16.12	83	267	N.D.		
47) Trichloroethene	16.20	130	406	N.D.		
48) 1,4-Dioxane	16.20	88	52	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	1968	N.D.		
50) Methyl Methacrylate	16.48	100	184	N.D.		
51) n-Heptane	16.65	71	130	N.D.		
52) cis-1,3-Dichloropropene	17.42	75	337	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	307	N.D.		
54) trans-1,3-Dichloropropene	18.14	75	262	N.D.		
55) 1,1,2-Trichloroethane	18.64	97	150141	9.893 ng	# FP	6
58) Toluene	18.76	91	2389	N.D.		
59) 2-Hexanone	19.10	43	2056	0.065 ng		82
60) Dibromochloromethane	19.30	129	244	N.D.		
61) 1,2-Dibromoethane	19.64	107	179	N.D.		
62) n-Butyl Acetate	19.91	43	687	N.D.		
63) n-Octane	20.07	57	133	N.D.		
64) Tetrachloroethene	20.24	166	633	N.D.		
65) Chlorobenzene	21.13	112	1048	N.D.		
66) Ethylbenzene	21.60	91	2227	N.D.		
67) m- & p-Xylenes	21.86	91	3442	0.061 ng	#	29
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.29	104	1201	N.D.		
70) o-Xylene	22.43	91	2736	N.D.		
71) n-Nonane	22.72	43	871	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.42	83	514	N.D.		
74) Cumene	23.20	105	2197	N.D.		
75) alpha-Pinene	23.70	93	665	N.D.		
76) n-Propylbenzene	23.85	91	3330	N.D.		
77) 3-Ethyltoluene	23.97	105	2607	N.D.		
78) 4-Ethyltoluene	24.03	105	2813	N.D.		
79) 1,3,5-Trimethylbenzene	24.13	105	1956	N.D.		

Data Path : J:\MS16\DATA\2009_09\14\
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 Acq On : 14 Sep 2009 7:21
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.33	118	872		N.D.	
81) 2-Ethyltoluene	24.36	105	3520		N.D.	
82) 1,2,4-Trimethylbenzene	24.64	105	2519		N.D.	
83) n-Decane	24.76	57	859		N.D.	
84) Benzyl Chloride	24.79	91	2182		N.D.	
85) 1,3-Dichlorobenzene	24.83	146	1023		N.D.	
86) 1,4-Dichlorobenzene	24.91	146	1324		N.D.	
87) sec-Butylbenzene	24.97	105	2832		N.D.	
88) 4-Isopropyltoluene (p-...	25.16	119	1913		N.D.	
89) 1,2,3-Trimethylbenzene	25.17	105	1588		N.D.	
90) 1,2-Dichlorobenzene	25.34	146	695		N.D.	
91) d-Limonene	25.34	68	566		N.D.	
92) 1,2-Dibromo-3-Chloropr...	25.87	157	215		N.D.	
93) n-Undecane	26.28	57	1308		N.D.	
94) 1,2,4-Trichlorobenzene	27.40	180	599		N.D.	
95) Naphthalene	27.55	128	4398		N.D.	
96) n-Dodecane	27.52	57	2166	0.056	ng	89
97) Hexachlorobutadiene	27.96	225	1526	0.084	ng	93
98) Cyclohexanone	22.02	55	2339	0.096	ng	95
99) tert-Butylbenzene	24.63	119	3101		N.D.	
100) n-Butylbenzene	25.67	91	1646		N.D.	

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0903145
 CAS Sample ID: P090916-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/16/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/22/09 **751**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P090916-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/16/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

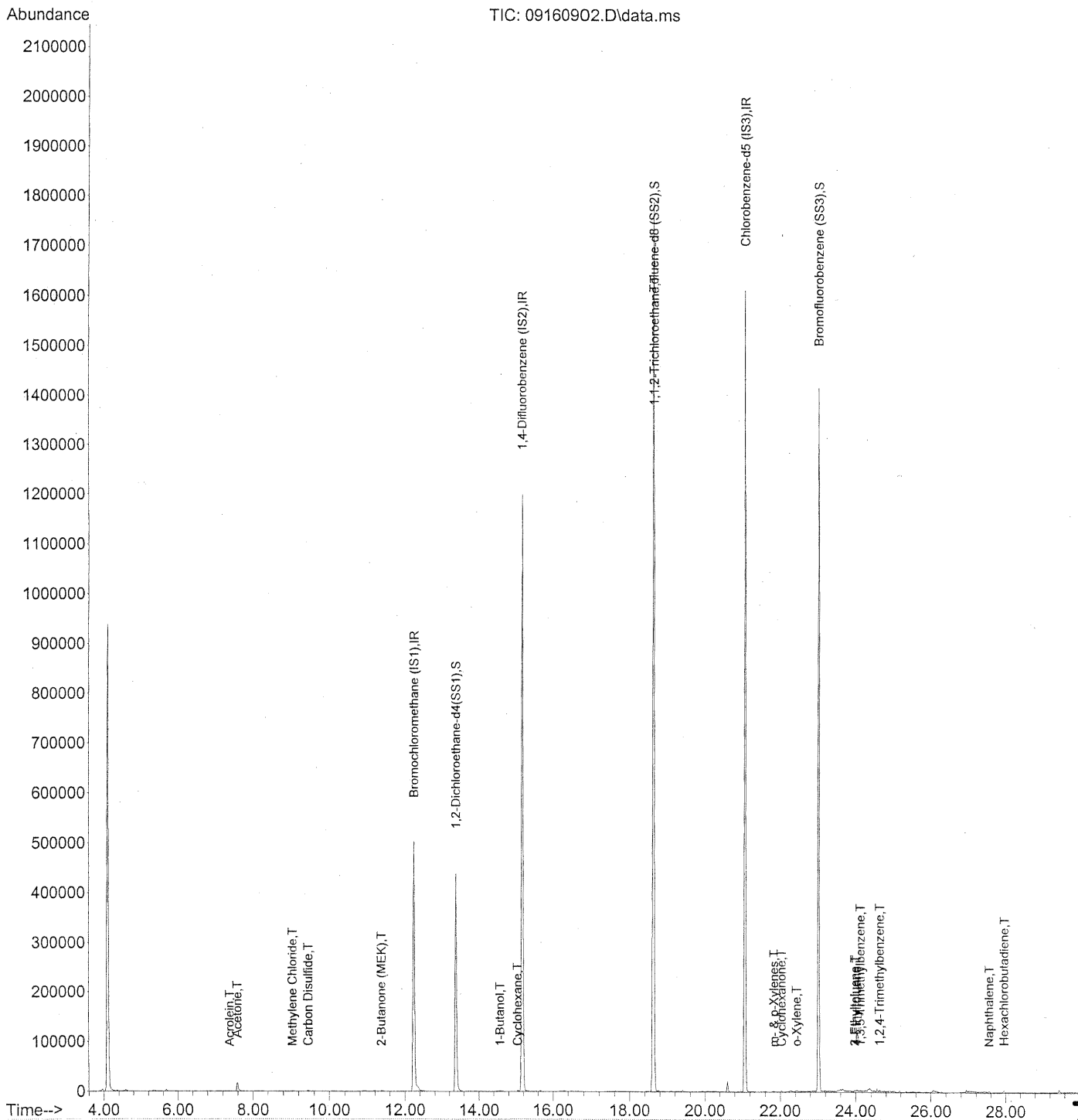
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/22/09 **753**

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160902.D
 Acq On : 16 Sep 2009 9:23
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160902.D
 Acq On : 16 Sep 2009 9:23
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

u 9/17/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	333235	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1619365	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.06	82	668614	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	446143	24.294	ng	-0.04
Spiked Amount	25.000		Recovery	=	97.16%	
57) Toluene-d8 (SS2)	18.63	98	1673191	25.000	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.00%	
73) Bromofluorobenzene (SS3)	23.02	174	639580	26.668	ng	0.00
Spiked Amount	25.000		Recovery	=	106.68%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.61	42	647	N.D.		
3) Dichlorodifluoromethan...	4.75	85	589	N.D.		
4) Chloromethane	5.08	50	112	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	5.30	135	261	N.D.		
6) Vinyl Chloride	5.52	62	393	N.D.		
7) 1,3-Butadiene	5.77	54	175	N.D.		
8) Bromomethane	6.23	94	297	N.D.		
9) Chloroethane	6.56	64	52	N.D.		
10) Ethanol	6.97	45	52	N.D.		
11) Acetonitrile	7.17	41	233	N.D.		
12) Acrolein	7.38	56	684	0.093 ng		96
13) Acetone	7.59	58	12634	1.275 ng	#	78
14) Trichlorofluoromethane	7.86	101	506	N.D.		
15) 2-Propanol (Isopropanol)	8.11	45	519	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	8.86	96	170	N.D.		
18) 2-Methyl-2-Propanol (t...	9.09	59	56	N.D.		
19) Methylene Chloride	9.04	84	820	0.054 ng		83
20) 3-Chloro-1-propene (Al...	9.23	41	409	N.D.		
21) Trichlorotrifluoroethane	9.49	151	120	N.D.		
22) Carbon Disulfide	9.45	76	2968	0.057 ng		80
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	10.76	63	499	N.D.		
25) Methyl tert-Butyl Ether	10.89	73	890	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.37	72	802	0.084 ng	#	86
28) cis-1,2-Dichloroethene	12.00	61	52	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.36	57	518	N.D.		

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160902.D
 Acq On : 16 Sep 2009 9:23
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.44	83	388	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	66	N.D.		
38) 1,1,1-Trichloroethane	13.94	97	452	N.D.		
39) Isopropyl Acetate	14.51	61	173	N.D.		
40) 1-Butanol	14.57	56	1914	0.131 ng		89
41) Benzene	14.62	78	1877	N.D.		
42) Carbon Tetrachloride	14.85	117	55	N.D.		
43) Cyclohexane	15.04	84	1139	0.054 ng		87
44) tert-Amyl Methyl Ether	15.55	73	713	N.D.		
45) 1,2-Dichloropropane	15.86	63	54	N.D.		
46) Bromodichloromethane	16.11	83	58	N.D.		
47) Trichloroethene	16.20	130	311	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.28	57	1792	N.D.		
50) Methyl Methacrylate	16.47	100	57	N.D.		
51) n-Heptane	16.67	71	177	N.D.		
52) cis-1,3-Dichloropropene	17.42	75	179	N.D.		
53) 4-Methyl-2-pentanone	17.47	58	114	N.D.		
54) trans-1,3-Dichloropropene	18.13	75	53	N.D.		
55) 1,1,2-Trichloroethane	18.64	97	141843	9.764 ng	# FP	6
58) Toluene	18.75	91	2395	N.D.		
59) 2-Hexanone	19.09	43	1475	N.D.		
60) Dibromochloromethane	19.30	129	218	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	672	N.D.		
63) n-Octane	20.07	57	58	N.D.		
64) Tetrachloroethene	20.26	166	151	N.D.		
65) Chlorobenzene	21.13	112	838	N.D.		
66) Ethylbenzene	21.60	91	2023	N.D.		
67) m- & p-Xylenes	21.83	91	3104	0.058 ng		98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.29	104	828	N.D.		
70) o-Xylene	22.44	91	3109	0.057 ng		71
71) n-Nonane	22.70	43	728	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.41	83	352	N.D.		
74) Cumene	23.20	105	1862	N.D.		
75) alpha-Pinene	23.71	93	635	N.D.		
76) n-Propylbenzene	23.85	91	2307	N.D.		
77) 3-Ethyltoluene	23.98	105	4575	0.065 ng	#	43
78) 4-Ethyltoluene	24.03	105	4087	0.058 ng		99
79) 1,3,5-Trimethylbenzene	24.12	105	5058	0.087 ng		756

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160902.D
 Acq On : 16 Sep 2009 9:23
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	756	N.D.		
81) 2-Ethyltoluene	24.36	105	2098	N.D.		
82) 1,2,4-Trimethylbenzene	24.63	105	3497	0.056 ng	#	68
83) n-Decane	24.75	57	751	N.D.		
84) Benzyl Chloride	24.80	91	2060	N.D.		
85) 1,3-Dichlorobenzene	24.84	146	954	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	1278	N.D.		
87) sec-Butylbenzene	24.97	105	2451	N.D.		
88) 4-Isopropyltoluene (p-...	25.17	119	1593	N.D.		
89) 1,2,3-Trimethylbenzene	25.17	105	1367	N.D.		
90) 1,2-Dichlorobenzene	25.34	146	320	N.D.		
91) d-Limonene	25.34	68	501	N.D.		
92) 1,2-Dibromo-3-Chloropr...	25.87	157	117	N.D.		
93) n-Undecane	26.29	57	962	N.D.		
94) 1,2,4-Trichlorobenzene	27.41	180	709	N.D.		
95) Naphthalene	27.55	128	4853	0.054 ng		85
96) n-Dodecane	27.52	57	1008	N.D.		
97) Hexachlorobutadiene	27.96	225	1509	0.088 ng		95
98) Cyclohexanone	22.03	55	1508	0.065 ng		95
99) tert-Butylbenzene	24.64	119	1643	N.D.		
100) n-Butylbenzene	25.67	91	1225	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
 Analyst: Lusine Hakobyan
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0903145
 CAS Sample ID: P090917-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/17/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: P Date: 9/22/09 **758**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P090917-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____



Date: _____

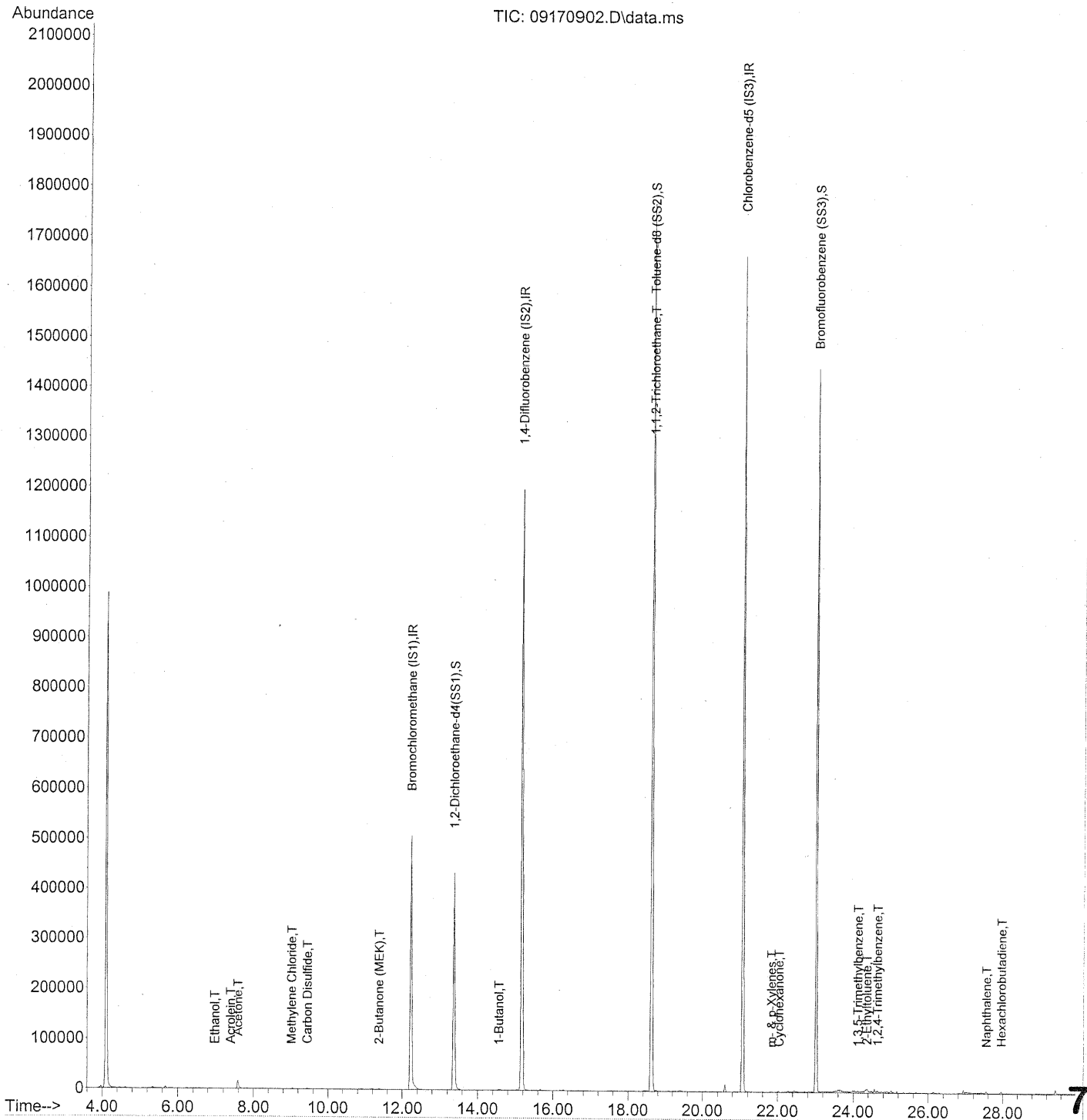
9/22/09

760

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170902.D
 Acq On : 17 Sep 2009 8:03
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:34:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170902.D
 Acq On : 17 Sep 2009 8:03
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:34:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.23	130	333245	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.17	114	1611782	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.06	82	676135	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.37	65	443107	24.128	ng	-0.05
Spiked Amount	25.000		Recovery	=	96.52%	
57) Toluene-d8 (SS2)	18.63	98	1675270	24.753	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.00%	
73) Bromofluorobenzene (SS3)	23.02	174	650350	26.815	ng	0.00
Spiked Amount	25.000		Recovery	=	107.28%	

Target Compounds

						Qvalue
2) Propene	4.59	42	251	N.D.		
3) Dichlorodifluoromethan...	4.74	85	716	N.D.		
4) Chloromethane	5.07	50	168	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	245	N.D.		
6) Vinyl Chloride	5.50	62	263	N.D.		
7) 1,3-Butadiene	5.68	54	102	N.D.		
8) Bromomethane	6.24	94	141	N.D.		
9) Chloroethane	6.56	64	57	N.D.		
10) Ethanol	6.97	45	542	0.055 ng	#	36
11) Acetonitrile	7.18	41	367	N.D.		
12) Acrolein	7.39	56	554	0.076 ng	#	53
13) Acetone	7.58	58	10952	1.105 ng	#	85
14) Trichlorofluoromethane	7.84	101	278	N.D.		
15) 2-Propanol (Isopropanol)	8.11	45	344	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.06	59	175	N.D.		
19) Methylene Chloride	9.02	84	878	0.058 ng		81
20) 3-Chloro-1-propene (Al...	9.22	41	258	N.D.		
21) Trichlorotrifluoroethane	9.49	151	59	N.D.		
22) Carbon Disulfide	9.44	76	3370	0.064 ng		79
23) trans-1,2-Dichloroethene	10.47	61	121	N.D.		
24) 1,1-Dichloroethane	10.76	63	349	N.D.		
25) Methyl tert-Butyl Ether	10.91	73	677	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.37	72	671	0.070 ng	#	57
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.36	57	482	N.D.		

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170902.D
 Acq On : 17 Sep 2009 8:03
 Operator : LH
 Sample : TO-15 Method blank (1000mL)
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:34:28 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.44	83	331	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.52	62	59	N.D.		
38) 1,1,1-Trichloroethane	13.93	97	481	N.D.		
39) Isopropyl Acetate	14.51	61	56	N.D.		
40) 1-Butanol	14.56	56	1917	0.132 ng		93
41) Benzene	14.63	78	1721	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.05	84	1000	N.D.		
44) tert-Amyl Methyl Ether	15.56	73	747	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.20	130	125	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	1792	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.66	71	166	N.D.		
52) cis-1,3-Dichloropropene	17.42	75	121	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	18.13	75	110	N.D.		
55) 1,1,2-Trichloroethane	18.64	97	141560	9.790 ng	# FP	6
58) Toluene	18.76	91	2141	N.D.		
59) 2-Hexanone	19.09	43	1315	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.92	43	560	N.D.		
63) n-Octane	20.07	57	109	N.D.		
64) Tetrachloroethene	20.25	166	197	N.D.		
65) Chlorobenzene	21.12	112	706	N.D.		
66) Ethylbenzene	21.60	91	1825	N.D.		
67) m- & p-Xylenes	21.83	91	2793	0.052 ng	#	67
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.29	104	953	N.D.		
70) o-Xylene	22.44	91	2400	N.D.		
71) n-Nonane	22.72	43	529	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.40	83	470	N.D.		
74) Cumene	23.20	105	1516	N.D.		
75) alpha-Pinene	23.70	93	389	N.D.		
76) n-Propylbenzene	23.85	91	2111	N.D.		
77) 3-Ethyltoluene	23.97	105	2401	N.D.		
78) 4-Ethyltoluene	24.03	105	2503	N.D.		
79) 1,3,5-Trimethylbenzene	24.12	105	5220	0.089 ng		763

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170902.D
 Acq On : 17 Sep 2009 8:03
 Operator : LH
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 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.32	118	732	N.D.		
81) 2-Ethyltoluene	24.36	105	3760	0.050	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	4618	0.074	ng	# 58
83) n-Decane	24.76	57	773	N.D.		
84) Benzyl Chloride	24.80	91	1498	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	1073	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	1328	N.D.		
87) sec-Butylbenzene	24.97	105	2526	N.D.		
88) 4-Isopropyltoluene (p-...	25.17	119	1822	N.D.		
89) 1,2,3-Trimethylbenzene	25.17	105	1400	N.D.		
90) 1,2-Dichlorobenzene	25.34	146	613	N.D.		
91) d-Limonene	25.34	68	387	N.D.		
92) 1,2-Dibromo-3-Chloropr...	25.88	157	242	N.D.		
93) n-Undecane	26.29	57	888	N.D.		
94) 1,2,4-Trichlorobenzene	27.40	180	710	N.D.		
95) Naphthalene	27.55	128	5938	0.065	ng	91
96) n-Dodecane	27.52	57	1174	N.D.		
97) Hexachlorobutadiene	27.96	225	1630	0.093	ng	96
98) Cyclohexanone	22.03	55	1565	0.067	ng	94
99) tert-Butylbenzene	24.43	119	299	N.D.		
100) n-Butylbenzene	25.68	91	1416	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P090914-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: NA

Analyst: Lusine Hakobyan

Date Analyzed: 9/14/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

Test Notes:

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data Qualifier
		ng	ng		Limits	
115-07-1	Propene	26.3	20.4	78	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	20.5	79	61-118	
74-87-3	Chloromethane	25.0	20.2	81	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.0	81	65-122	
75-01-4	Vinyl Chloride	25.3	20.2	80	57-132	
106-99-0	1,3-Butadiene	26.8	20.6	77	66-161	
74-83-9	Bromomethane	25.8	22.8	88	67-130	
75-00-3	Chloroethane	25.5	20.4	80	68-123	
64-17-5	Ethanol	130	96.2	74	50-155	
75-05-8	Acetonitrile	26.0	19.4	75	48-148	
107-02-8	Acrolein	26.3	22.9	87	67-138	
67-64-1	Acetone	132	106	80	59-121	
75-69-4	Trichlorofluoromethane	26.3	21.6	82	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	37.6	78	54-126	
107-13-1	Acrylonitrile	25.8	20.6	80	65-134	
75-35-4	1,1-Dichloroethene	27.5	23.2	84	70-123	
75-09-2	Methylene Chloride	26.8	21.3	79	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	23.3	86	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	24.1	88	69-126	
75-15-0	Carbon Disulfide	26.0	21.1	81	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	22.9	90	69-125	
75-34-3	1,1-Dichloroethane	26.5	22.3	84	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	22.1	84	72-132	
108-05-4	Vinyl Acetate	126	114	90	73-158	
78-93-3	2-Butanone (MEK)	26.8	22.2	83	68-126	

Verified By: _____

P

Date: 9/22/09

TO15scan.xls - 75 Compounds - PageNo.:

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P090914-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	23.2	86	69-124	
141-78-6	Ethyl Acetate	52.0	45.3	87	65-126	
110-54-3	n-Hexane	26.0	20.0	77	63-125	
67-66-3	Chloroform	27.5	22.9	83	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	23.5	89	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.0	87	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	23.4	90	69-127	
71-43-2	Benzene	25.8	21.9	85	68-122	
56-23-5	Carbon Tetrachloride	26.3	25.4	97	68-137	
110-82-7	Cyclohexane	51.8	45.2	87	68-121	
78-87-5	1,2-Dichloropropane	26.0	22.7	87	69-128	
75-27-4	Bromodichloromethane	26.3	23.6	90	71-131	
79-01-6	Trichloroethene	25.8	22.8	88	72-122	
123-91-1	1,4-Dioxane	26.0	22.7	87	73-127	
80-62-6	Methyl Methacrylate	52.8	47.6	90	80-133	
142-82-5	n-Heptane	25.8	21.8	84	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	22.1	90	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	22.6	84	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	25.3	94	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	22.4	86	76-125	
108-88-3	Toluene	26.8	22.7	85	74-119	
591-78-6	2-Hexanone	27.0	21.7	80	64-118	
124-48-1	Dibromochloromethane	28.3	26.0	92	79-129	
106-93-4	1,2-Dibromoethane	26.3	23.9	91	79-125	
123-86-4	n-Butyl Acetate	27.5	22.3	81	70-136	

Verified By: _____

Date: _____

9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0903145
 CAS Sample ID: P090914-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 9/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data
		ng	ng		Limits	Qualifier
111-65-9	n-Octane	26.3	21.9	83	75-126	
127-18-4	Tetrachloroethene	25.3	23.0	91	72-125	
108-90-7	Chlorobenzene	26.5	23.4	88	74-121	
100-41-4	Ethylbenzene	26.3	22.8	87	76-120	
179601-23-1	m,p-Xylenes	51.5	44.9	87	75-120	
75-25-2	Bromoform	26.5	24.1	91	76-143	
100-42-5	Styrene	26.3	23.4	89	78-124	
95-47-6	o-Xylene	26.0	22.6	87	76-121	
111-84-2	n-Nonane	25.8	21.1	82	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	23.8	88	77-126	
98-82-8	Cumene	25.3	21.7	86	78-125	
80-56-8	alpha-Pinene	24.8	21.9	88	78-125	
103-65-1	n-Propylbenzene	25.3	21.8	86	80-127	
622-96-8	4-Ethyltoluene	26.3	22.5	86	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	23.2	88	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	22.1	87	76-123	
100-44-7	Benzyl Chloride	26.8	24.5	91	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	23.8	92	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	23.3	89	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	23.4	91	75-124	
5989-27-5	d-Limonene	26.5	22.5	85	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	23.7	88	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	22.4	82	70-139	
91-20-3	Naphthalene	25.0	19.9	80	69-141	
87-68-3	Hexachlorobutadiene	26.8	22.5	84	68-138	

Verified By: _____

Date: 9/22/09

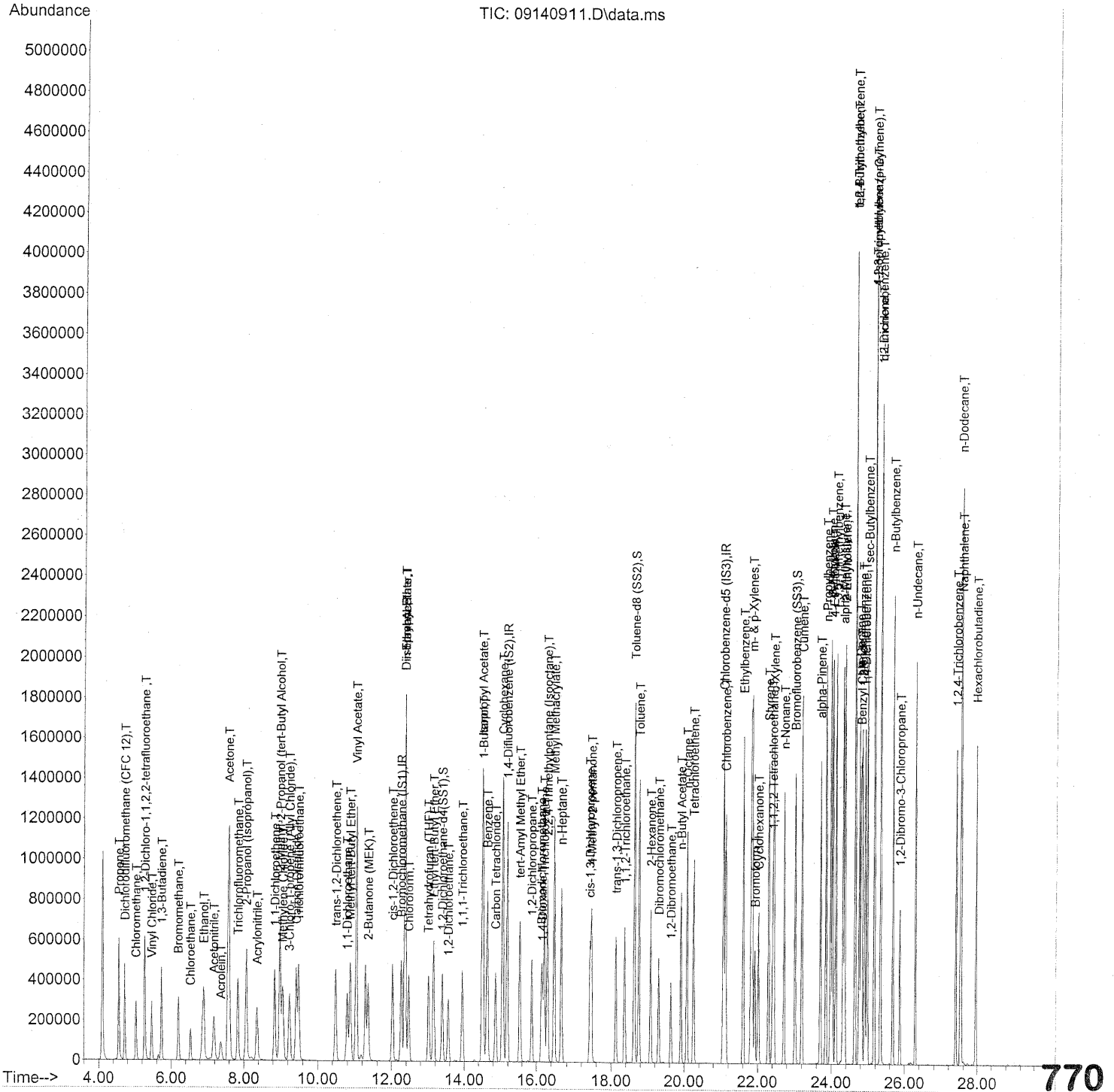
TO15scan.xls - 75 Compounds - PageNo.:

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:57:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:57:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

M 9/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.26	130	334144	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1602761	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	671183	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	451089	24.497	ng	-0.02
Spiked Amount	25.000			Recovery	=	98.00%
57) Toluene-d8 (SS2)	18.63	98	1671037	24.872	ng	0.00
Spiked Amount	25.000			Recovery	=	99.48%
73) Bromofluorobenzene (SS3)	23.02	174	643241	26.718	ng	0.00
Spiked Amount	25.000			Recovery	=	106.88%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.55	42	277049	20.361	ng	99
3) Dichlorodifluoromethan...	4.71	85	532450	20.468	ng	99
4) Chloromethane	5.02	50	429910	20.177	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	327944	21.018	ng	99
6) Vinyl Chloride	5.46	62	413798	20.235	ng	99
7) 1,3-Butadiene	5.73	54	292711	20.554	ng	96
8) Bromomethane	6.20	94	307364	22.785	ng	99
9) Chloroethane	6.53	64	204365	20.360	ng	98
10) Ethanol	6.90	45	948743	96.180	ng	97
11) Acetonitrile	7.18	41	483142	19.366	ng	99
12) Acrolein	7.37	56	167763	22.859	ng	100
13) Acetone	7.58	58	1049012	105.561	ng	88
14) Trichlorofluoromethane	7.84	101	520346	21.595	ng	100
15) 2-Propanol (Isopropanol)	8.07	45	1285807m	37.568	ng	
16) Acrylonitrile	8.36	53	396418	20.572	ng	99
17) 1,1-Dichloroethene	8.84	96	321410	23.180	ng	# 78
18) 2-Methyl-2-Propanol (t...	8.99	59	1464602	41.400	ng	98
19) Methylene Chloride	9.06	84	322670	21.292	ng	79
20) 3-Chloro-1-propene (Al...	9.24	41	413519	23.272	ng	88
21) Trichlorotrifluoroethane	9.49	151	285732	24.068	ng	83
22) Carbon Disulfide	9.42	76	1110922	21.136	ng	99
23) trans-1,2-Dichloroethene	10.48	61	433557	22.935	ng	83
24) 1,1-Dichloroethane	10.79	63	534445	22.348	ng	100
25) Methyl tert-Butyl Ether	10.87	73	843558	22.084	ng	96
26) Vinyl Acetate	11.04	86	340784	113.875	ng	# 48
27) 2-Butanone (MEK)	11.36	72	211846	22.192	ng	# 74
28) cis-1,2-Dichloroethene	12.03	61	424304	23.195	ng	82
29) Diisopropyl Ether	12.36	87	241269	21.812	ng	# 51
30) Ethyl Acetate	12.36	61	219639	45.322	ng	92
31) n-Hexane	12.37	57	384339	20.022	ng	97

771

M

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:57:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.47	83	539361	22.903	ng	99
34) Tetrahydrofuran (THF)	13.01	72	207586	23.499	ng #	82
35) Ethyl tert-Butyl Ether	13.15	87	359044	21.307	ng #	79
36) 1,2-Dichloroethane	13.56	62	374253	23.042	ng	99
38) 1,1,1-Trichloroethane	13.94	97	470543	23.371	ng	96
39) Isopropyl Acetate	14.50	61	387081	43.602	ng	93
40) 1-Butanol	14.52	56	602689	41.680	ng	86
41) Benzene	14.63	78	1252336	21.909	ng	99
42) Carbon Tetrachloride	14.87	117	436456	25.398	ng	99
43) Cyclohexane	15.06	84	942364	45.180	ng	87
44) tert-Amyl Methyl Ether	15.54	73	867911	21.744	ng	94
45) 1,2-Dichloropropane	15.87	63	302003	22.671	ng	99
46) Bromodichloromethane	16.14	83	418133	23.629	ng	100
47) Trichloroethene	16.22	130	391715	22.774	ng	99
48) 1,4-Dioxane	16.16	88	276474	22.683	ng	87
49) 2,2,4-Trimethylpentane...	16.31	57	1205097	20.927	ng	97
50) Methyl Methacrylate	16.49	100	312860	47.644	ng #	73
51) n-Heptane	16.67	71	317274	21.750	ng	92
52) cis-1,3-Dichloropropene	17.42	75	492827	22.063	ng	99
53) 4-Methyl-2-pentanone	17.46	58	288061	22.601	ng	85
54) trans-1,3-Dichloropropene	18.13	75	505680	25.282	ng	99
55) 1,1,2-Trichloroethane	18.37	97	322601	22.437	ng	93
58) Toluene	18.76	91	1421791	22.669	ng	99
59) 2-Hexanone	19.08	43	657100	21.727	ng	93
60) Dibromochloromethane	19.31	129	407092	26.007	ng	99
61) 1,2-Dibromoethane	19.64	107	379360	23.901	ng	100
62) n-Butyl Acetate	19.91	43	772301	22.309	ng	95
63) n-Octane	20.08	57	257544	21.876	ng	86
64) Tetrachloroethene	20.26	166	444546	22.962	ng	98
65) Chlorobenzene	21.13	112	972784	23.409	ng	98
66) Ethylbenzene	21.61	91	1570017	22.798	ng	96
67) m- & p-Xylenes	21.85	91	2418860	44.937	ng	95
68) Bromoform	21.92	173	383206	24.148	ng	99
69) Styrene	22.29	104	1035645	23.423	ng	96
70) o-Xylene	22.44	91	1244949	22.636	ng	95
71) n-Nonane	22.72	43	564016	21.129	ng	88
72) 1,1,2,2-Tetrachloroethane	22.41	83	567073	23.824	ng	98
74) Cumene	23.20	105	1634162	21.707	ng	98
75) alpha-Pinene	23.70	93	775157	21.911	ng	96
76) n-Propylbenzene	23.85	91	1922340	21.844	ng	95
77) 3-Ethyltoluene	23.98	105	1657698	23.301	ng	98
78) 4-Ethyltoluene	24.03	105	1581235	22.509	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1358001	23.224	ng	9772

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:57:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

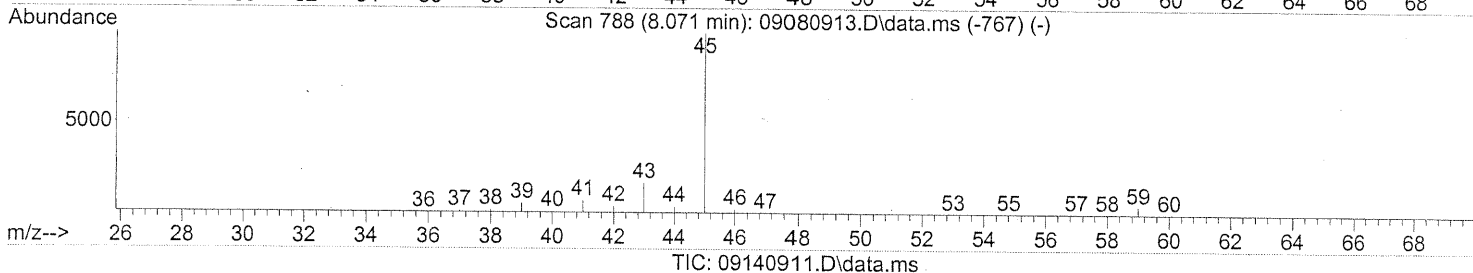
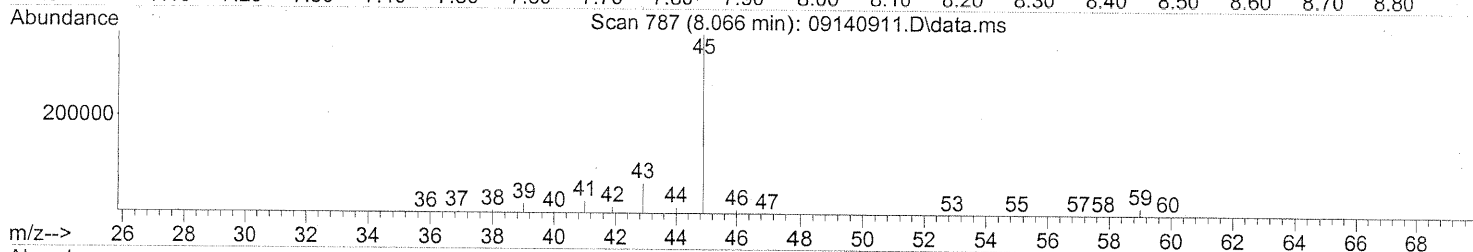
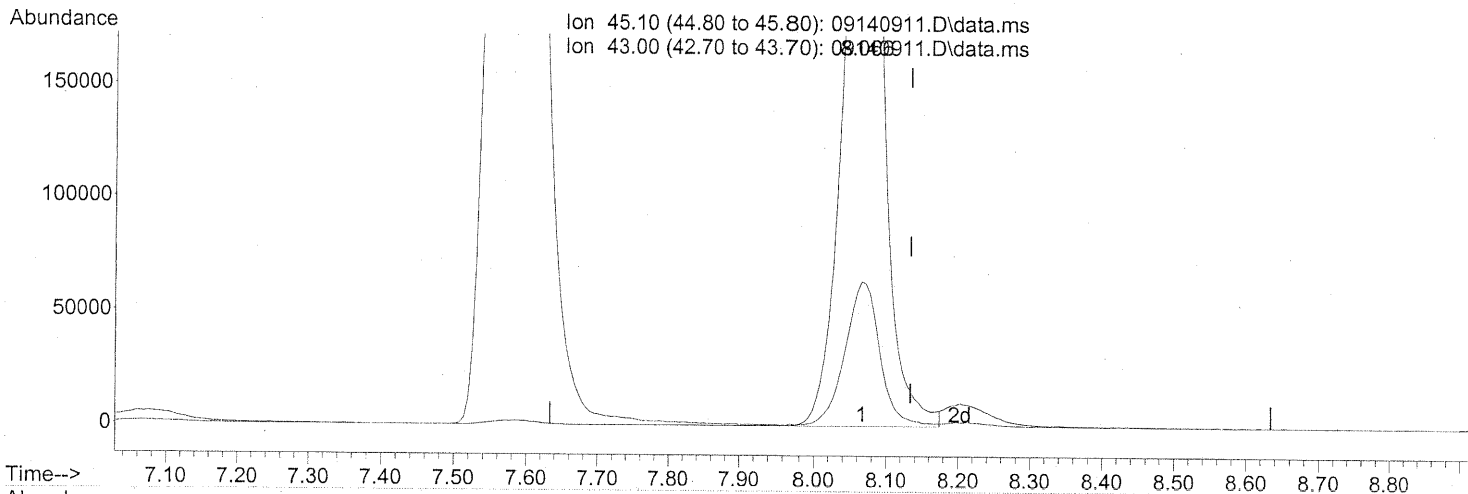
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	788157	23.359	ng	98
81) 2-Ethyltoluene	24.36	105	1605943	21.523	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1377167	22.081	ng	95
83) n-Decane	24.76	57	661116	20.250	ng	93
84) Benzyl Chloride	24.80	91	1197128	24.518	ng	94
85) 1,3-Dichlorobenzene	24.83	146	863915	23.792	ng	100
86) 1,4-Dichlorobenzene	24.91	146	883039	23.335	ng	100
87) sec-Butylbenzene	24.97	105	1823696	22.338	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1751934	22.141	ng	96
89) 1,2,3-Trimethylbenzene	25.17	105	1381906	22.629	ng	95
90) 1,2-Dichlorobenzene	25.34	146	817417	23.400	ng	99
91) d-Limonene	25.34	68	504708	22.529	ng	89
92) 1,2-Dibromo-3-Chloropr...	25.87	157	297994	23.691	ng	78
93) n-Undecane	26.29	57	681932	18.111	ng	93
94) 1,2,4-Trichlorobenzene	27.40	180	613687	22.380	ng	100
95) Naphthalene	27.54	128	1802182	19.895	ng	99
96) n-Dodecane	27.52	57	670920	18.082	ng	92
97) Hexachlorobutadiene	27.96	225	390164	22.538	ng	99
98) Cyclohexanone	22.02	55	410460	17.689	ng	# 89
99) tert-Butylbenzene	24.64	119	1392611	22.676	ng	98
100) n-Butylbenzene	25.68	91	1426518	22.778	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:56:41 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.066min (-0.068) 36.25ng

response 1240575

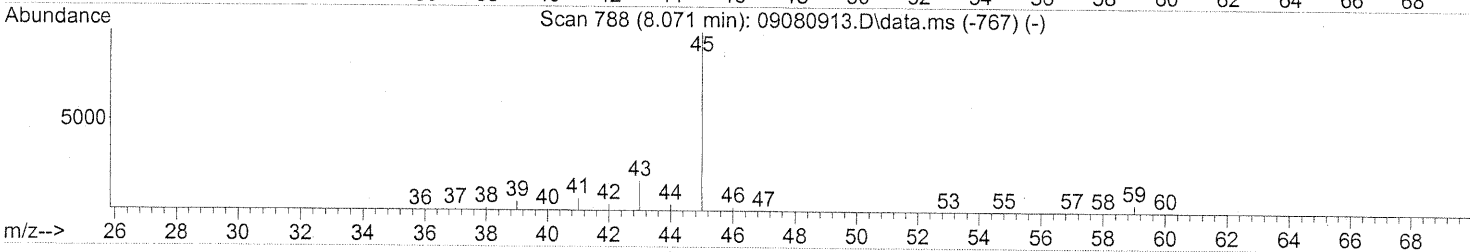
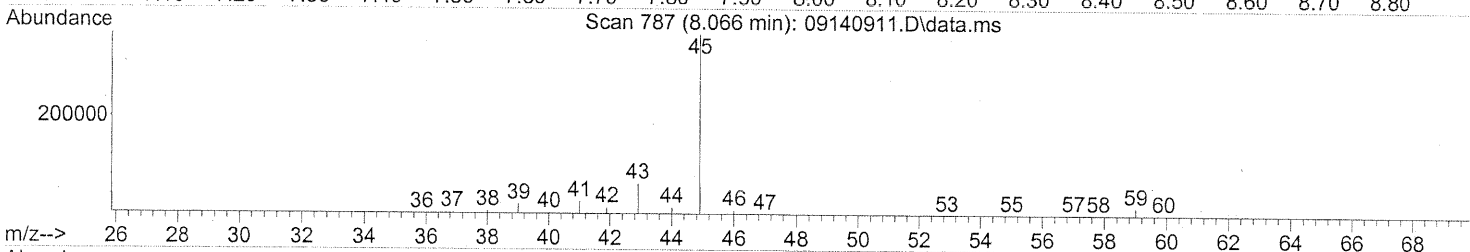
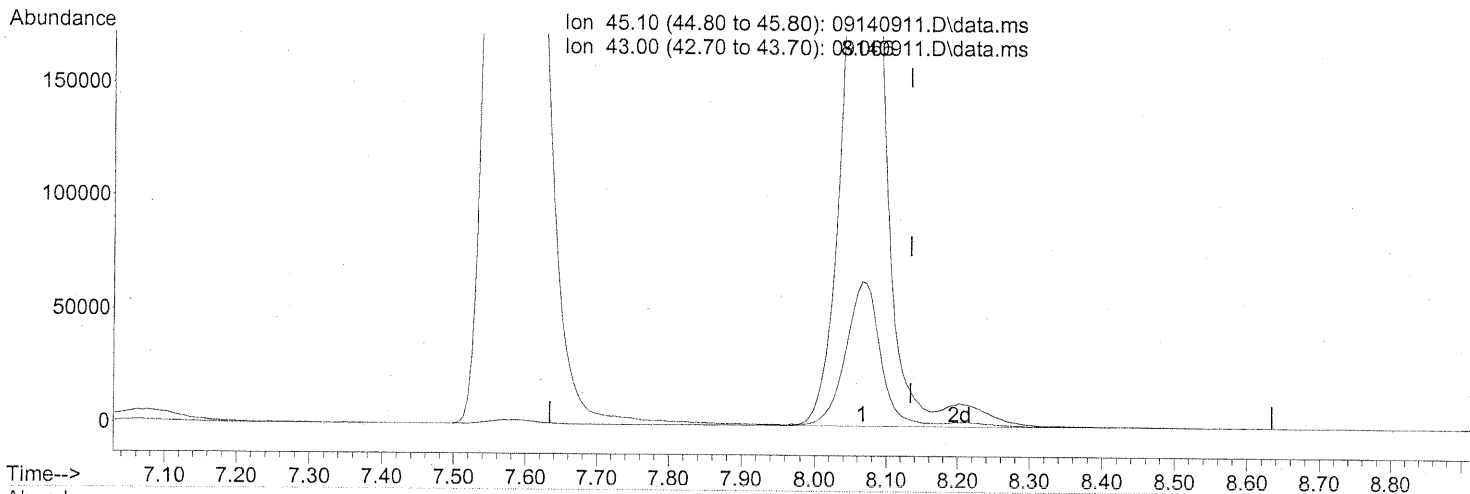
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	18.14
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140911.D
 Acq On : 14 Sep 2009 13:18
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 14 13:56:41 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.066min (-0.068) 37.57ng m

response 1285807

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.50
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 LH 9/15/09*

PT 9/15/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P090916-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: NA

Analyst: Lusine Hakobyan

Date Analyzed: 9/16/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	21.4	81	75-126	
127-18-4	Tetrachloroethene	25.3	22.8	90	72-125	
108-90-7	Chlorobenzene	26.5	22.7	86	74-121	
100-41-4	Ethylbenzene	26.3	22.2	84	76-120	
179601-23-1	m,p-Xylenes	51.5	44.0	85	75-120	
75-25-2	Bromoform	26.5	23.9	90	76-143	
100-42-5	Styrene	26.3	22.8	87	78-124	
95-47-6	o-Xylene	26.0	22.2	85	76-121	
111-84-2	n-Nonane	25.8	20.1	78	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	23.0	85	77-126	
98-82-8	Cumene	25.3	21.2	84	78-125	
80-56-8	alpha-Pinene	24.8	21.4	86	78-125	
103-65-1	n-Propylbenzene	25.3	21.3	84	80-127	
622-96-8	4-Ethyltoluene	26.3	22.0	84	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	22.7	86	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	21.5	84	76-123	
100-44-7	Benzyl Chloride	26.8	23.9	89	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	23.6	91	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	23.1	88	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	23.1	90	75-124	
5989-27-5	d-Limonene	26.5	21.6	82	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	23.4	87	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	22.2	81	70-139	
91-20-3	Naphthalene	25.0	19.6	78	69-141	
87-68-3	Hexachlorobutadiene	26.8	22.4	84	68-138	

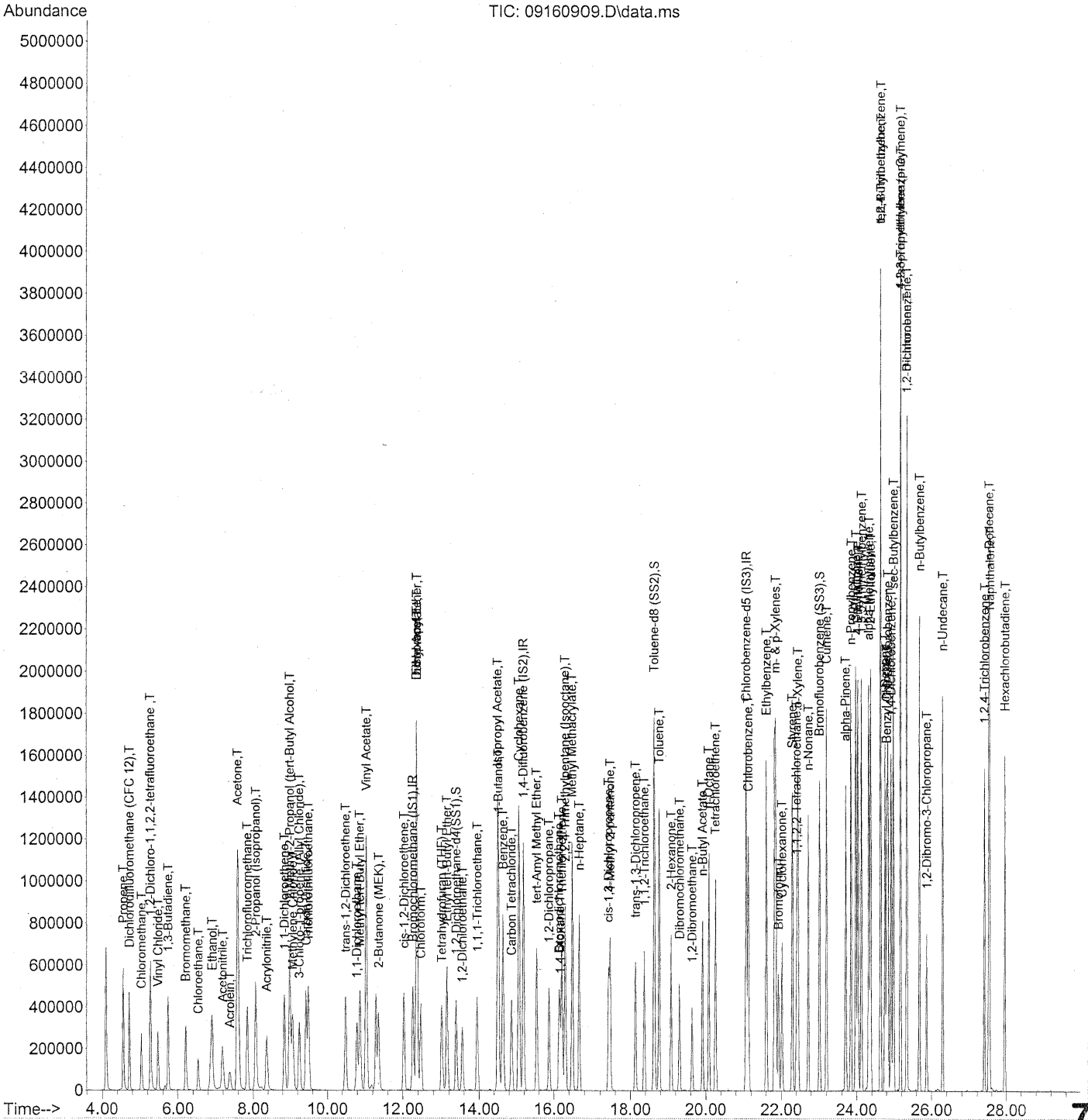
Verified By: _____

Date: 9/22/09

778

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160909.D
Acq On : 16 Sep 2009 14:12
Operator : LH
Sample : 25ng TO-15 LCS STD
Misc : S20-09080901/S20-09030911
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 15:52:56 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160909.D
 Acq On : 16 Sep 2009 14:12
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 15:52:56 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/17/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.27	130	336917	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1602655	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	671316	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.40	65	444742	23.953	ng	-0.02
Spiked Amount	25.000		Recovery	=	95.80%	
57) Toluene-d8 (SS2)	18.63	98	1666255	24.796	ng	0.00
Spiked Amount	25.000		Recovery	=	99.20%	
73) Bromofluorobenzene (SS3)	23.02	174	663573	27.557	ng	0.00
Spiked Amount	25.000		Recovery	=	110.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	266937	19.457	ng	100
3) Dichlorodifluoromethan...	4.72	85	515064	19.637	ng	100
4) Chloromethane	5.03	50	398846	18.565	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	330364	20.999	ng	99
6) Vinyl Chloride	5.46	62	406491	19.714	ng	99
7) 1,3-Butadiene	5.74	54	290887	20.258	ng	96
8) Bromomethane	6.21	94	301908	22.197	ng	100
9) Chloroethane	6.54	64	201567	19.916	ng	99
10) Ethanol	6.90	45	919433	92.442	ng	96
11) Acetonitrile	7.18	41	465729	18.514	ng	99
12) Acrolein	7.37	56	162936	22.019	ng	100
13) Acetone	7.59	58	1020702	101.866	ng	88
14) Trichlorofluoromethane	7.84	101	516834	21.272	ng	99
15) 2-Propanol (Isopropanol)	8.07	45	1216696	35.256	ng	98
16) Acrylonitrile	8.36	53	382848	19.704	ng	99
17) 1,1-Dichloroethene	8.85	96	321692	23.009	ng	# 77
18) 2-Methyl-2-Propanol (t...	8.99	59	1434138	40.205	ng	98
19) Methylene Chloride	9.07	84	313731	20.532	ng	# 78
20) 3-Chloro-1-propene (Al...	9.24	41	400778	22.370	ng	87
21) Trichlorotrifluoroethane	9.49	151	298431	24.931	ng	# 82
22) Carbon Disulfide	9.43	76	1108918	20.924	ng	98
23) trans-1,2-Dichloroethene	10.48	61	417693	21.914	ng	81
24) 1,1-Dichloroethane	10.79	63	517369	21.455	ng	100
25) Methyl tert-Butyl Ether	10.87	73	831752	21.596	ng	96
26) Vinyl Acetate	11.04	86	332776	110.283	ng	# 48
27) 2-Butanone (MEK)	11.36	72	208136	21.624	ng	# 72
28) cis-1,2-Dichloroethene	12.03	61	412059	22.340	ng	81
29) Diisopropyl Ether	12.36	87	238833	21.414	ng	# 48
30) Ethyl Acetate	12.37	61	212783	43.546	ng	91
31) n-Hexane	12.37	57	379090	19.586	ng	93

780

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160909.D
Acq On : 16 Sep 2009 14:12
Operator : LH
Sample : 25ng TO-15 LCS STD
Misc : S20-09080901/S20-09030911
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 15:52:56 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.47	83	528379	22.252	ng	100
34) Tetrahydrofuran (THF)	13.02	72	202924	22.782	ng #	81
35) Ethyl tert-Butyl Ether	13.15	87	353696	20.817	ng #	79
36) 1,2-Dichloroethane	13.56	62	364929	22.283	ng	99
38) 1,1,1-Trichloroethane	13.95	97	465043	23.100	ng	96
39) Isopropyl Acetate	14.50	61	376554	42.419	ng #	91
40) 1-Butanol	14.52	56	572934	39.625	ng	85
41) Benzene	14.64	78	1223735	21.410	ng	99
42) Carbon Tetrachloride	14.87	117	430428	25.049	ng	99
43) Cyclohexane	15.07	84	923536	44.280	ng	86
44) tert-Amyl Methyl Ether	15.54	73	848249	21.252	ng	94
45) 1,2-Dichloropropane	15.87	63	292345	21.947	ng	100
46) Bromodichloromethane	16.14	83	405611	22.923	ng	99
47) Trichloroethene	16.22	130	385493	22.414	ng	99
48) 1,4-Dioxane	16.17	88	267144	21.919	ng	87
49) 2,2,4-Trimethylpentane...	16.31	57	1165155	20.234	ng	97
50) Methyl Methacrylate	16.49	100	307314	46.803	ng #	72
51) n-Heptane	16.68	71	309024	21.186	ng	91
52) cis-1,3-Dichloropropene	17.42	75	482336	21.595	ng	99
53) 4-Methyl-2-pentanone	17.46	58	275337	21.604	ng	84
54) trans-1,3-Dichloropropene	18.13	75	491254	24.563	ng	99
55) 1,1,2-Trichloroethane	18.37	97	313292	21.791	ng	94
58) Toluene	18.76	91	1392975	22.206	ng	99
59) 2-Hexanone	19.08	43	623963	20.627	ng	93
60) Dibromochloromethane	19.31	129	400676	25.592	ng	99
61) 1,2-Dibromoethane	19.64	107	372073	23.438	ng	100
62) n-Butyl Acetate	19.91	43	731394	21.123	ng	95
63) n-Octane	20.08	57	251513	21.359	ng	85
64) Tetrachloroethene	20.26	166	441738	22.813	ng	98
65) Chlorobenzene	21.13	112	945377	22.745	ng	98
66) Ethylbenzene	21.61	91	1529014	22.198	ng	96
67) m- & p-Xylenes	21.85	91	2367375	43.972	ng	95
68) Bromoform	21.92	173	378997	23.878	ng	99
69) Styrene	22.29	104	1010477	22.849	ng	96
70) o-Xylene	22.44	91	1221752	22.209	ng	95
71) n-Nonane	22.72	43	536746	20.104	ng	88
72) 1,1,2,2-Tetrachloroethane	22.41	83	548323	23.032	ng	98
74) Cumene	23.20	105	1598794	21.233	ng	98
75) alpha-Pinene	23.70	93	757701	21.414	ng	96
76) n-Propylbenzene	23.85	91	1874725	21.299	ng	95
77) 3-Ethyltoluene	23.98	105	1611219	22.643	ng	98
78) 4-Ethyltoluene	24.03	105	1543835	21.972	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1325183	22.658	ng	97

781

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160909.D
 Acq On : 16 Sep 2009 14:12
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 16 15:52:56 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.32	118	766116	22.702	ng	96
81) 2-Ethyltoluene	24.36	105	1579383	21.163	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1343418	21.535	ng	95
83) n-Decane	24.76	57	638627	19.558	ng	92
84) Benzyl Chloride	24.80	91	1168742	23.932	ng	94
85) 1,3-Dichlorobenzene	24.83	146	856202	23.575	ng	100
86) 1,4-Dichlorobenzene	24.92	146	872539	23.053	ng	100
87) sec-Butylbenzene	24.97	105	1781102	21.812	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1713027	21.645	ng	95
89) 1,2,3-Trimethylbenzene	25.17	105	1348466	22.077	ng	95
90) 1,2-Dichlorobenzene	25.34	146	806310	23.078	ng	100
91) d-Limonene	25.34	68	483278	21.569	ng	87
92) 1,2-Dibromo-3-Chloropr...	25.87	157	294699	23.425	ng	# 77
93) n-Undecane	26.29	57	659712	17.517	ng	93
94) 1,2,4-Trichlorobenzene	27.40	180	609792	22.233	ng	100
95) Naphthalene	27.54	128	1777115	19.614	ng	100
96) n-Dodecane	27.52	57	647916	17.458	ng	91
97) Hexachlorobutadiene	27.96	225	388535	22.439	ng	98
98) Cyclohexanone	22.02	55	387088	16.679	ng	# 88
99) tert-Butylbenzene	24.64	119	1366709	22.250	ng	98
100) n-Butylbenzene	25.68	91	1391209	22.210	ng	97

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P090917-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Date Received: NA

Analyst: Lusine Hakobyan

Date Analyzed: 9/17/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	19.1	73	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	18.8	72	61-118	
74-87-3	Chloromethane	25.0	19.7	79	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	19.1	73	65-122	
75-01-4	Vinyl Chloride	25.3	19.0	75	57-132	
106-99-0	1,3-Butadiene	26.8	19.2	72	66-161	
74-83-9	Bromomethane	25.8	21.7	84	67-130	
75-00-3	Chloroethane	25.5	19.3	76	68-123	
64-17-5	Ethanol	130	91.1	70	50-155	
75-05-8	Acetonitrile	26.0	18.1	70	48-148	
107-02-8	Acrolein	26.3	21.3	81	67-138	
67-64-1	Acetone	132	99.6	75	59-121	
75-69-4	Trichlorofluoromethane	26.3	20.5	78	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	35.3	74	54-126	
107-13-1	Acrylonitrile	25.8	19.2	74	65-134	
75-35-4	1,1-Dichloroethene	27.5	22.1	80	70-123	
75-09-2	Methylene Chloride	26.8	20.0	75	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	22.1	82	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	22.7	83	69-126	
75-15-0	Carbon Disulfide	26.0	20.2	78	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	21.3	84	69-125	
75-34-3	1,1-Dichloroethane	26.5	20.9	79	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	20.3	77	72-132	
108-05-4	Vinyl Acetate	126	107	85	73-158	
78-93-3	2-Butanone (MEK)	26.8	21.0	78	68-126	

Verified By: P Date: 9/22/09 **783**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P090917-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/17/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	21.8	81	69-124	
141-78-6	Ethyl Acetate	52.0	42.3	81	65-126	
110-54-3	n-Hexane	26.0	18.3	70	63-125	
67-66-3	Chloroform	27.5	21.8	79	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	21.9	83	65-124	
107-06-2	1,2-Dichloroethane	26.3	21.7	83	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	21.9	84	69-127	
71-43-2	Benzene	25.8	20.5	79	68-122	
56-23-5	Carbon Tetrachloride	26.3	23.8	90	68-137	
110-82-7	Cyclohexane	51.8	41.8	81	68-121	
78-87-5	1,2-Dichloropropane	26.0	21.1	81	69-128	
75-27-4	Bromodichloromethane	26.3	22.1	84	71-131	
79-01-6	Trichloroethene	25.8	21.5	83	72-122	
123-91-1	1,4-Dioxane	26.0	21.1	81	73-127	
80-62-6	Methyl Methacrylate	52.8	44.5	84	80-133	
142-82-5	n-Heptane	25.8	20.2	78	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	20.8	85	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	20.9	78	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	23.7	88	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	21.2	82	76-125	
108-88-3	Toluene	26.8	21.0	78	74-119	
591-78-6	2-Hexanone	27.0	19.8	73	64-118	
124-48-1	Dibromochloromethane	28.3	24.3	86	79-129	
106-93-4	1,2-Dibromoethane	26.3	22.4	85	79-125	
123-86-4	n-Butyl Acetate	27.5	20.0	73	70-136	

Verified By: _____

Date: 9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: Lab Control Sample

Client Project ID: 16512

CAS Project ID: P0903145

CAS Sample ID: P090917-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16

Analyst: Lusine Hakobyan

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 9/17/09

Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	20.1	76	75-126	
127-18-4	Tetrachloroethene	25.3	21.5	85	72-125	
108-90-7	Chlorobenzene	26.5	21.7	82	74-121	
100-41-4	Ethylbenzene	26.3	21.2	81	76-120	
179601-23-1	m,p-Xylenes	51.5	41.8	81	75-120	
75-25-2	Bromoform	26.5	22.8	86	76-143	
100-42-5	Styrene	26.3	21.8	83	78-124	
95-47-6	o-Xylene	26.0	21.0	81	76-121	
111-84-2	n-Nonane	25.8	19.2	74	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	22.1	82	77-126	
98-82-8	Cumene	25.3	20.3	80	78-125	
80-56-8	alpha-Pinene	24.8	20.4	82	78-125	
103-65-1	n-Propylbenzene	25.3	20.3	80	80-127	
622-96-8	4-Ethyltoluene	26.3	20.7	79	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	21.4	81	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	20.4	80	76-123	
100-44-7	Benzyl Chloride	26.8	22.9	85	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	22.3	86	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	21.8	83	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	21.8	84	75-124	
5989-27-5	d-Limonene	26.5	20.5	77	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	22.2	82	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	20.9	77	70-139	
91-20-3	Naphthalene	25.0	18.5	74	69-141	
87-68-3	Hexachlorobutadiene	26.8	21.1	79	68-138	

Verified By: _____

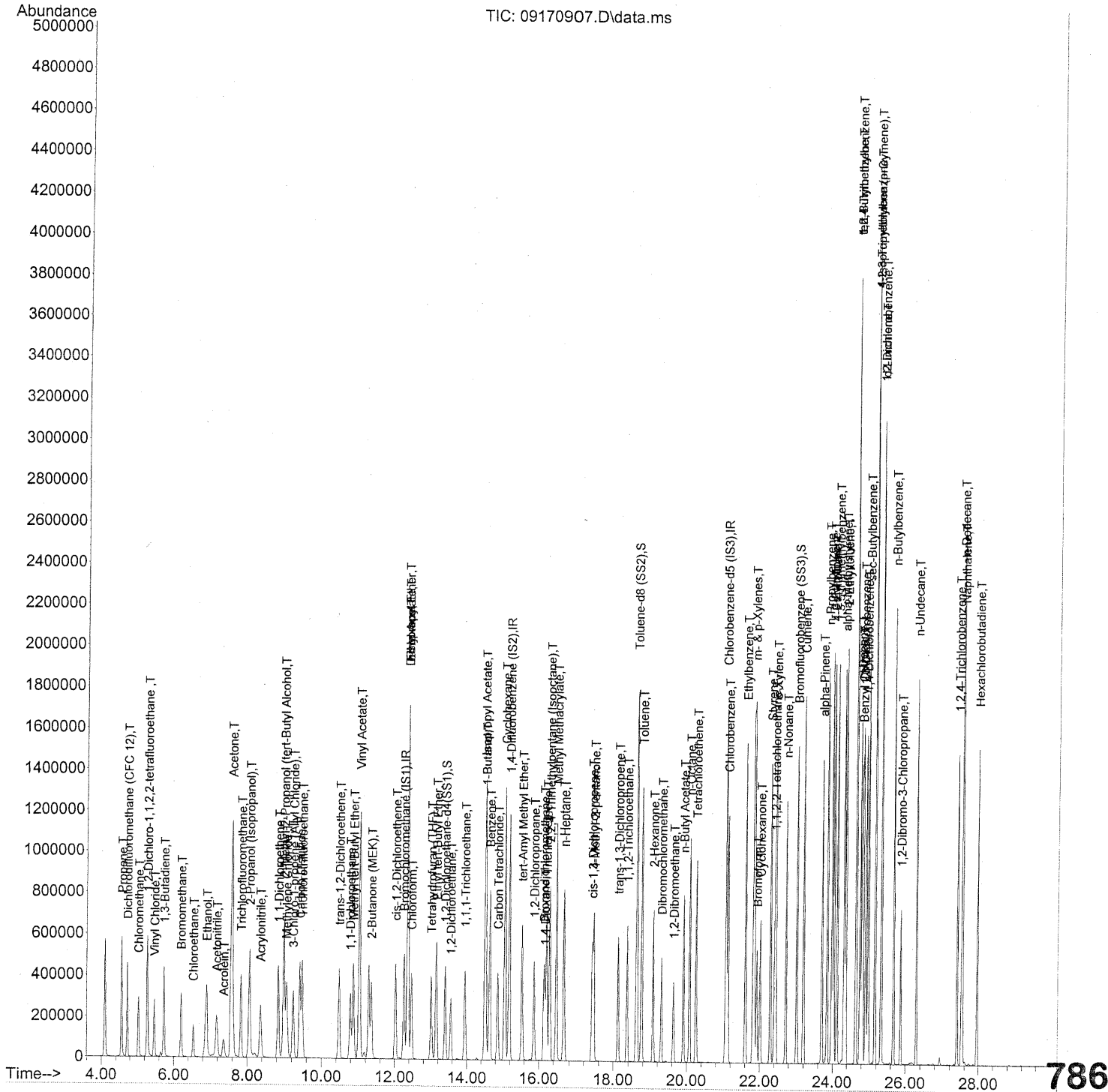
Date: 9/22/09

785

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170907.D
Acq On : 17 Sep 2009 11:27
Operator : LH
Sample : 25ng TO-15 LCS STD
Misc : S20-09080901/S20-09030911
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:35 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.25	130	341067	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.18	114	1635419	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	696521	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.39	65	456663	24.296	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.20%	
57) Toluene-d8 (SS2)	18.63	98	1698238	24.358	ng	-0.01
Spiked Amount	25.000		Recovery	=	97.44%	
73) Bromofluorobenzene (SS3)	23.02	174	683006	27.338	ng	0.00
Spiked Amount	25.000		Recovery	=	109.36%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.55	42	265406	19.110	ng	99
3) Dichlorodifluoromethan...	4.71	85	499150	18.799	ng	99
4) Chloromethane	5.03	50	427688	19.666	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	303733	19.071	ng	100
6) Vinyl Chloride	5.46	62	396324	18.987	ng	99
7) 1,3-Butadiene	5.73	54	278747	19.176	ng	96
8) Bromomethane	6.20	94	299379	21.743	ng	99
9) Chloroethane	6.53	64	198096	19.334	ng	99
10) Ethanol	6.90	45	917565m	91.132	ng	
11) Acetonitrile	7.18	41	460234	18.073	ng	99
12) Acrolein	7.37	56	159458	21.286	ng	99
13) Acetone	7.58	58	1010632	99.634	ng	88
14) Trichlorofluoromethane	7.83	101	505054	20.534	ng	100
15) 2-Propanol (Isopropanol)	8.07	45	1232693m	35.285	ng	
16) Acrylonitrile	8.36	53	377675	19.201	ng	99
17) 1,1-Dichloroethene	8.84	96	313321	22.138	ng	# 77
18) 2-Methyl-2-Propanol (t...	8.99	59	1402266	38.833	ng	98
19) Methylene Chloride	9.06	84	308646	19.953	ng	# 79
20) 3-Chloro-1-propene (Al...	9.24	41	401082	22.114	ng	88
21) Trichlorotrifluoroethane	9.48	151	275358	22.723	ng	83
22) Carbon Disulfide	9.42	76	1084907	20.222	ng	99
23) trans-1,2-Dichloroethene	10.48	61	411543	21.328	ng	83
24) 1,1-Dichloroethane	10.78	63	511031	20.935	ng	100
25) Methyl tert-Butyl Ether	10.86	73	792076	20.316	ng	96
26) Vinyl Acetate	11.04	86	326202	106.789	ng	# 48
27) 2-Butanone (MEK)	11.35	72	204173	20.954	ng	# 74
28) cis-1,2-Dichloroethene	12.03	61	406439	21.767	ng	82
29) Diisopropyl Ether	12.36	87	227625	20.161	ng	# 51
30) Ethyl Acetate	12.36	61	209095	42.270	ng	92
31) n-Hexane	12.36	57	358341	18.288	ng	97

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.46	83	523089	21.761	ng	100
34) Tetrahydrofuran (THF)	13.01	72	197417	21.894	ng	# 82
35) Ethyl tert-Butyl Ether	13.15	87	341557	19.858	ng	# 78
36) 1,2-Dichloroethane	13.55	62	359102	21.661	ng	98
38) 1,1,1-Trichloroethane	13.94	97	449582	21.884	ng	96
39) Isopropyl Acetate	14.50	61	368389	40.668	ng	# 92
40) 1-Butanol	14.52	56	567464	38.460	ng	85
41) Benzene	14.63	78	1198498	20.548	ng	99
42) Carbon Tetrachloride	14.86	117	418051	23.841	ng	99
43) Cyclohexane	15.06	84	888971	41.769	ng	87
44) tert-Amyl Methyl Ether	15.54	73	821599	20.172	ng	94
45) 1,2-Dichloropropane	15.87	63	286850	21.103	ng	99
46) Bromodichloromethane	16.14	83	399695	22.136	ng	99
47) Trichloroethene	16.22	130	376957	21.478	ng	100
48) 1,4-Dioxane	16.16	88	262191	21.082	ng	87
49) 2,2,4-Trimethylpentane...	16.30	57	1127498	19.188	ng	97
50) Methyl Methacrylate	16.49	100	298091	44.489	ng	# 73
51) n-Heptane	16.67	71	299949	20.152	ng	91
52) cis-1,3-Dichloropropene	17.42	75	473525	20.776	ng	100
53) 4-Methyl-2-pentanone	17.46	58	271415	20.870	ng	84
54) trans-1,3-Dichloropropene	18.13	75	483475	23.689	ng	99
55) 1,1,2-Trichloroethane	18.37	97	310341	21.153	ng	93
58) Toluene	18.76	91	1366983	21.003	ng	99
59) 2-Hexanone	19.08	43	620959	19.785	ng	93
60) Dibromochloromethane	19.31	129	395433	24.343	ng	99
61) 1,2-Dibromoethane	19.64	107	369337	22.423	ng	100
62) n-Butyl Acetate	19.91	43	719973	20.041	ng	95
63) n-Octane	20.07	57	246145	20.147	ng	85
64) Tetrachloroethene	20.26	166	431688	21.487	ng	98
65) Chlorobenzene	21.13	112	934059	21.660	ng	99
66) Ethylbenzene	21.61	91	1517953	21.240	ng	96
67) m- & p-Xylenes	21.85	91	2332704	41.760	ng	95
68) Bromoform	21.92	173	375551	22.804	ng	99
69) Styrene	22.29	104	998347	21.758	ng	96
70) o-Xylene	22.44	91	1199528	21.016	ng	95
71) n-Nonane	22.72	43	531002	19.169	ng	88
72) 1,1,2,2-Tetrachloroethane	22.41	83	544903	22.060	ng	98
74) Cumene	23.20	105	1587373	20.318	ng	98
75) alpha-Pinene	23.70	93	748044	20.376	ng	96
76) n-Propylbenzene	23.85	91	1854826	20.310	ng	95
77) 3-Ethyltoluene	23.98	105	1596658	21.627	ng	98
78) 4-Ethyltoluene	24.03	105	1509981	20.713	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1300447	21.430	ng	97

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:35 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

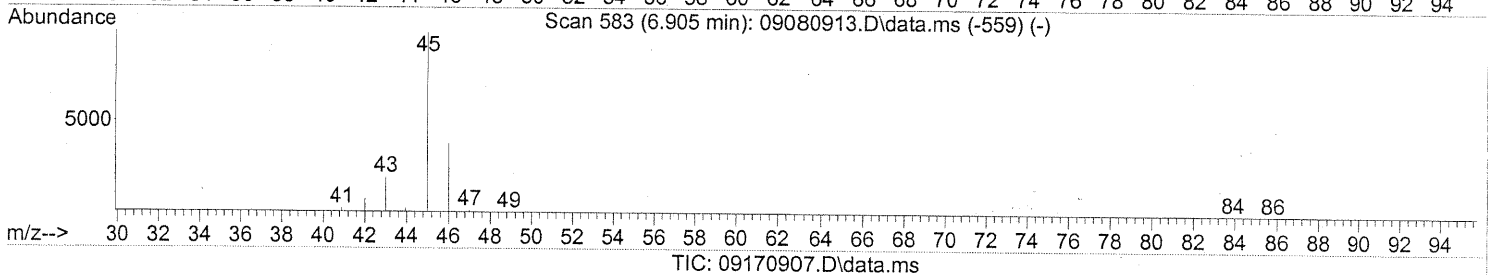
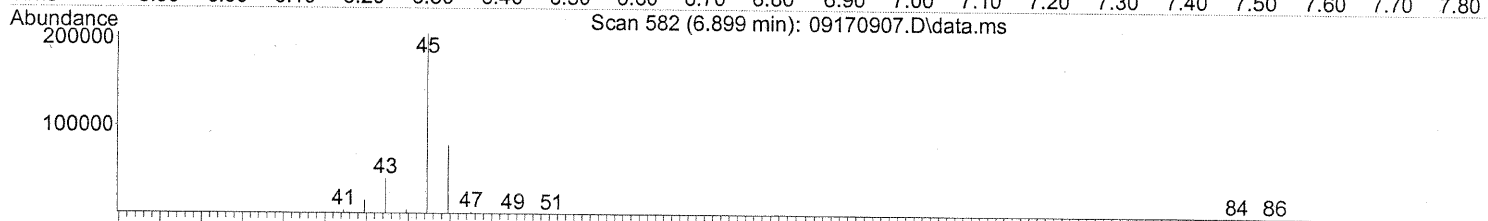
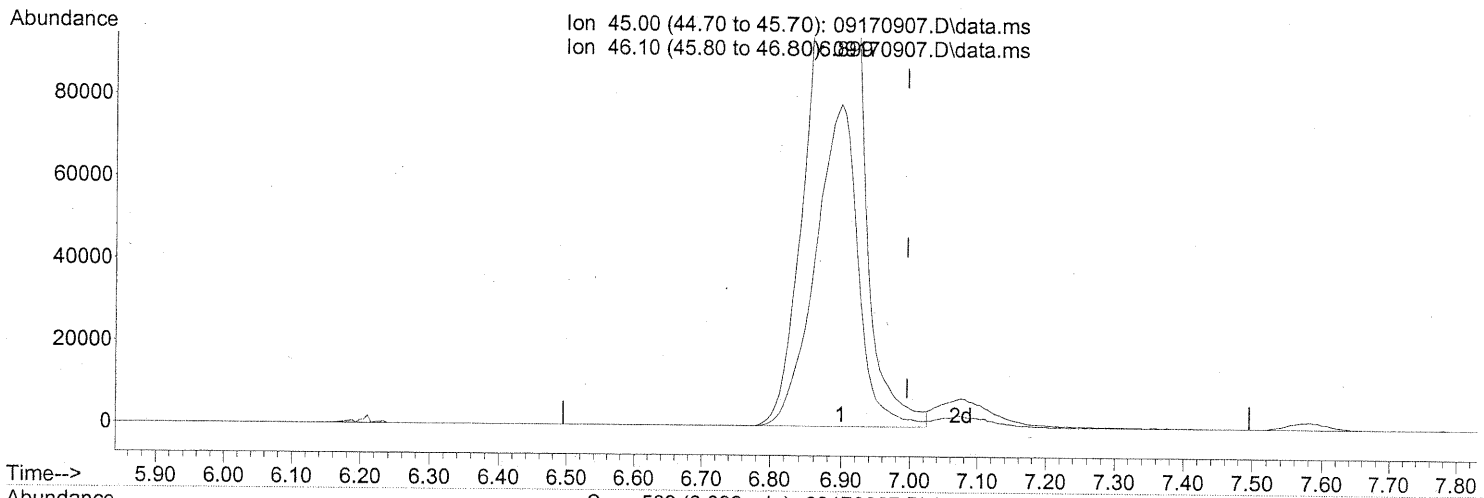
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	756611	21.609	ng	98
81) 2-Ethyltoluene	24.36	105	1551325	20.035	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1321196	20.413	ng	95
83) n-Decane	24.76	57	627387	18.518	ng	93
84) Benzyl Chloride	24.80	91	1158770	22.869	ng	94
85) 1,3-Dichlorobenzene	24.83	146	838891	22.263	ng	100
86) 1,4-Dichlorobenzene	24.91	146	856237	21.804	ng	100
87) sec-Butylbenzene	24.97	105	1761773	20.795	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1683558	20.503	ng	96
89) 1,2,3-Trimethylbenzene	25.17	105	1326720	20.935	ng	96
90) 1,2-Dichlorobenzene	25.34	146	791338	21.830	ng	99
91) d-Limonene	25.34	68	477412	20.536	ng	88
92) 1,2-Dibromo-3-Chloropr...	25.87	157	290057	22.221	ng	77
93) n-Undecane	26.29	57	648094	16.586	ng	93
94) 1,2,4-Trichlorobenzene	27.40	180	595277	20.918	ng	100
95) Naphthalene	27.54	128	1738589	18.495	ng	99
96) n-Dodecane	27.52	57	632804	16.434	ng	91
97) Hexachlorobutadiene	27.96	225	379571	21.128	ng	99
98) Cyclohexanone	22.02	55	381441	15.841	ng	# 88
99) tert-Butylbenzene	24.64	119	1344474	21.096	ng	98
100) n-Butylbenzene	25.68	91	1361777	20.953	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.899min (-0.097) 87.13ng

response 877300

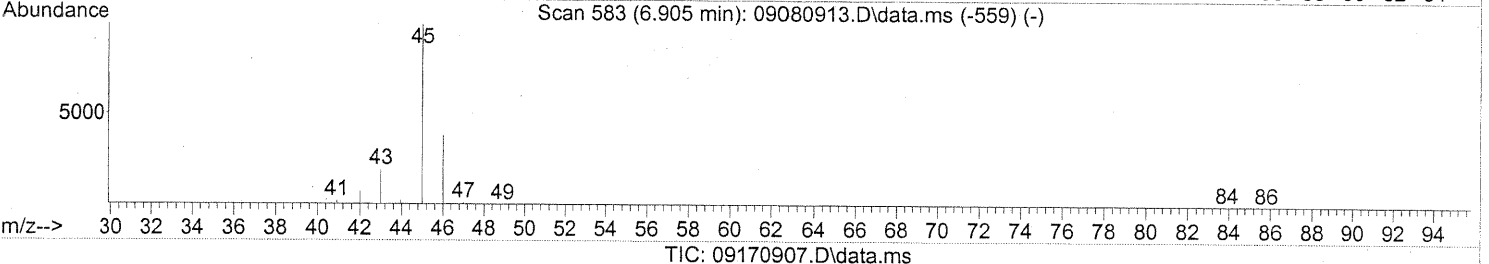
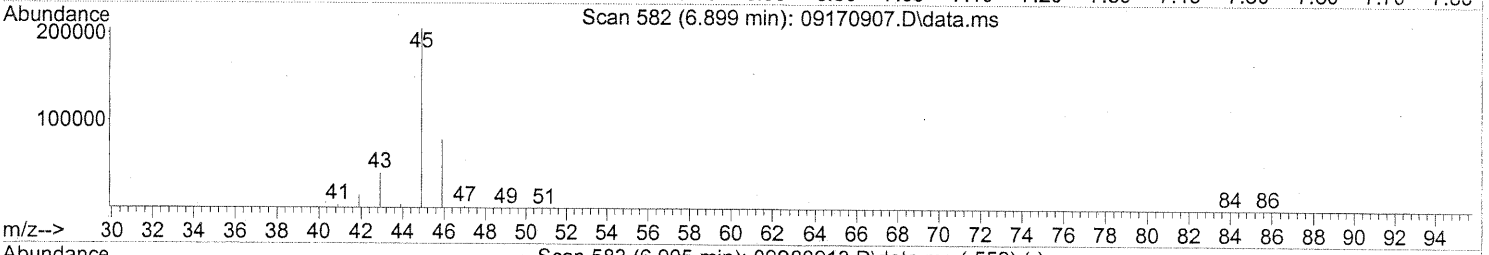
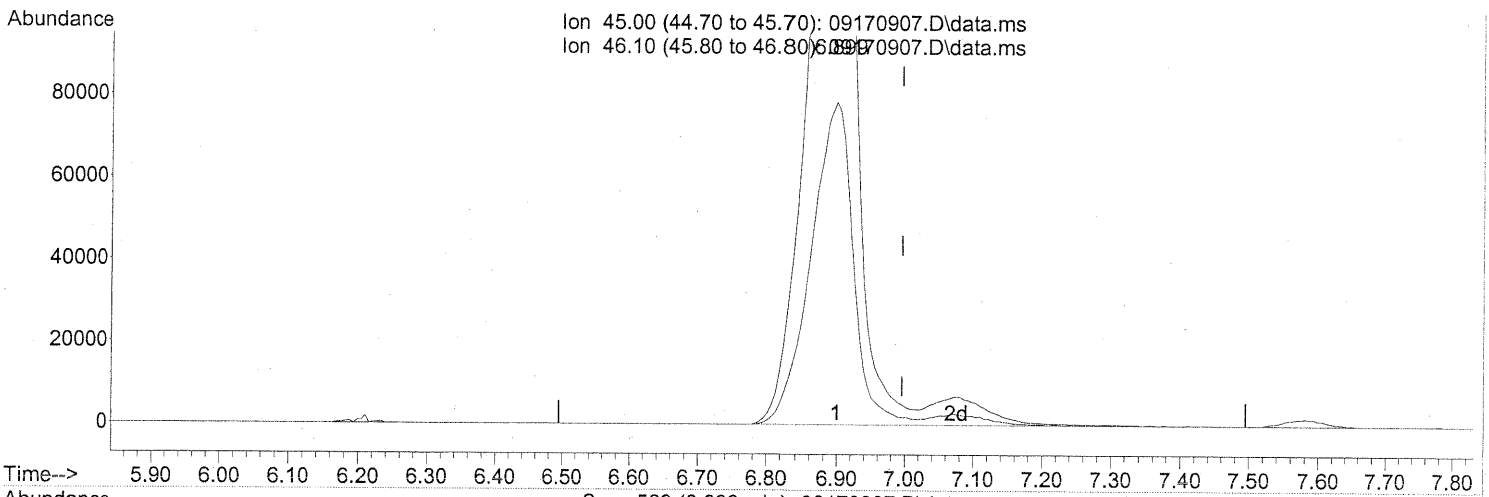
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.18
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.899min (-0.097) 91.13ng m
 response 917565

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.50
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
UH 9/18/09

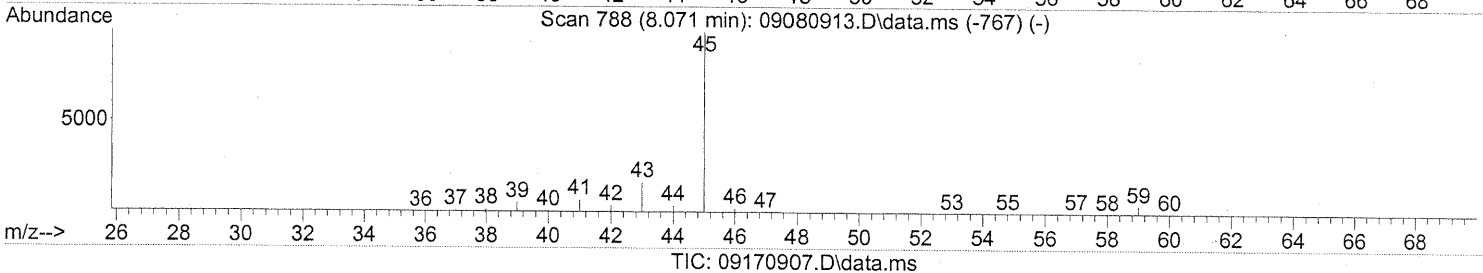
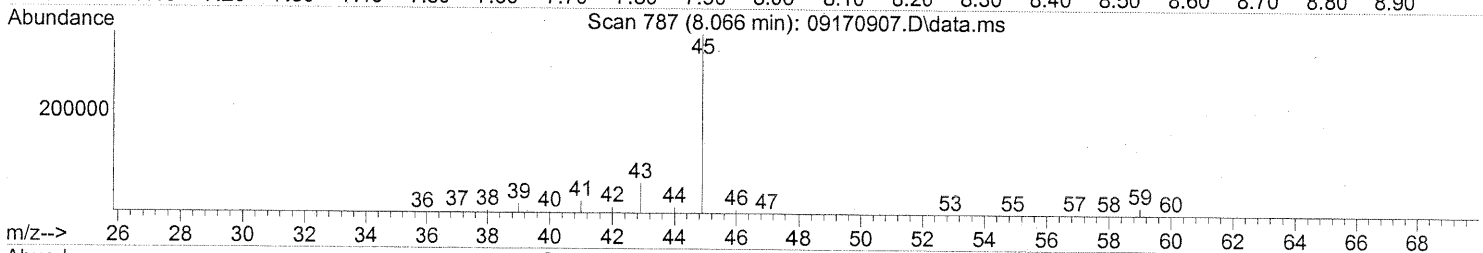
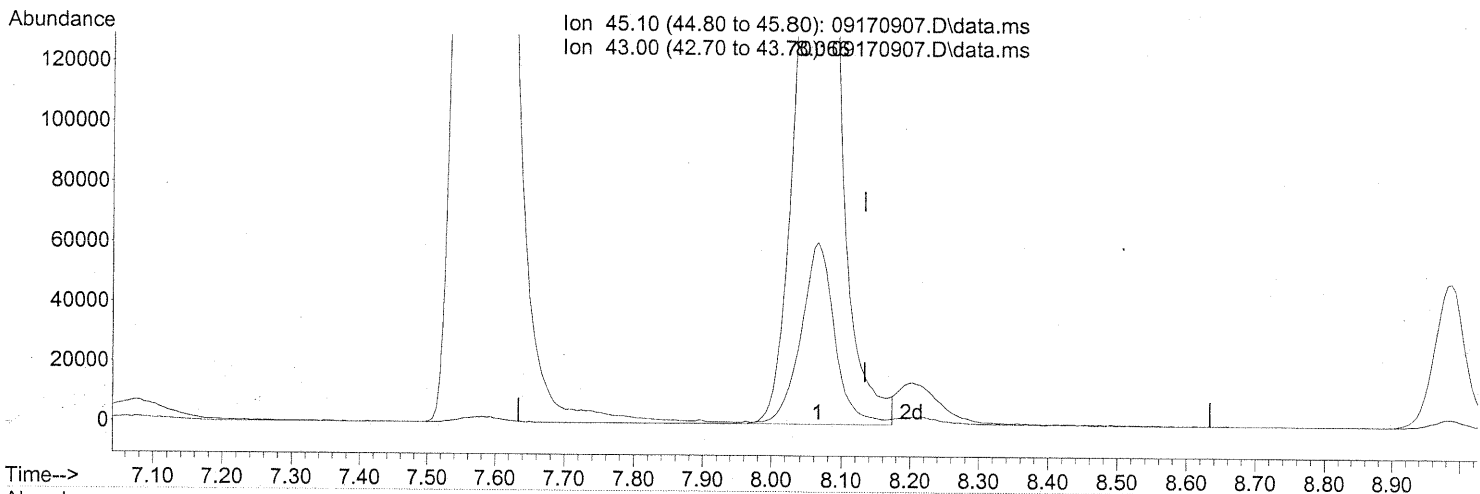
C. 9/21/09

791

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170907.D
Acq On : 17 Sep 2009 11:27
Operator : LH
Sample : 25ng TO-15 LCS STD
Misc : S20-09080901/S20-09030911
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:01 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.066min (-0.068) 33.56ng

response 1172443

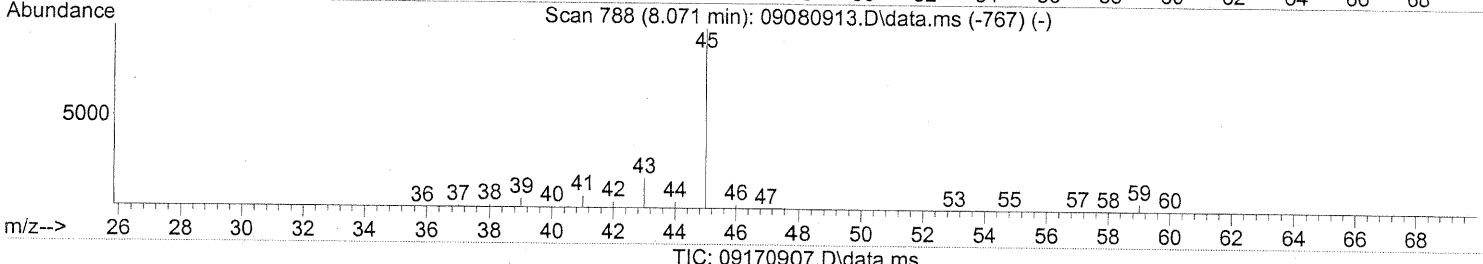
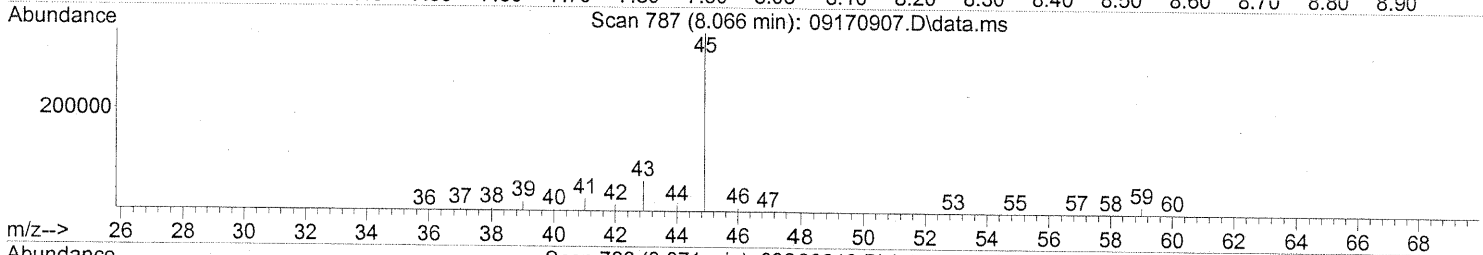
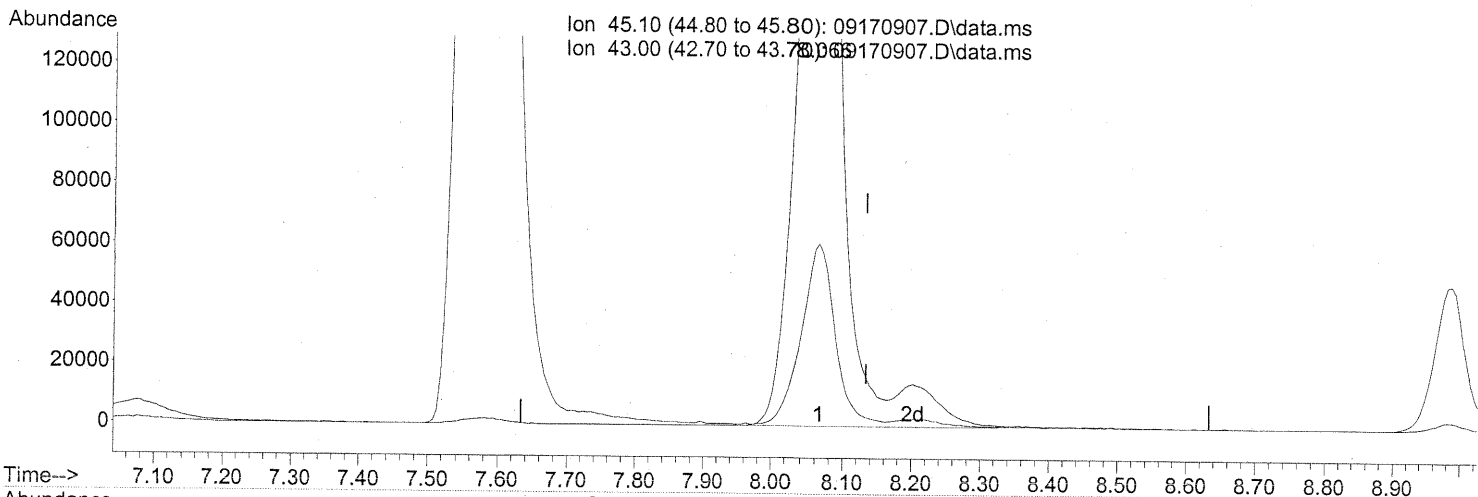
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.03
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170907.D
 Acq On : 17 Sep 2009 11:27
 Operator : LH
 Sample : 25ng TO-15 LCS STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 17 12:05:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.066min (-0.068) 35.28ng m

response 1232693

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.20
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
in 9/18/09

9/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102827
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01627

CAS Project ID: P0903145
CAS Sample ID: P0903145-013DUP

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.23

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
cis-1,2-Dichloroethene	0.133	0.0335	ND	ND	-	-	25	
Ethyl Acetate	6.56	1.82	5.60	1.55	6.08	16	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	2.15	0.441	1.79	0.366	1.97	18	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	1.19	0.294	0.948	0.234	1.069	23	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.453	0.142	0.373	0.117	0.413	19	25	
Carbon Tetrachloride	0.648	0.103	0.539	0.0857	0.5935	18	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	0.496	0.0740	0.396	0.0591	0.446	22	25	
Trichloroethene	0.188	0.0350	0.138	0.0256	0.163	31	25	R
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	0.663	0.162	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	1.42	0.346	1.17	0.287	1.295	19	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	6.31	1.67	5.29	1.40	5.8	18	25	
2-Hexanone	1.78	0.436	1.51	0.369	1.645	16	25	
Dibromochloromethane	0.124	0.0146	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	5.38	1.13	4.48	0.943	4.93	18	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

R = Duplicate precision not met.

Verified By: _____

Date: 9/22/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102827
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Lusine Hakobyan
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01627

CAS Project ID: P0903145
CAS Sample ID: P0903145-013DUP

Date Collected: 9/2/09
Date Received: 9/4/09
Date Analyzed: 9/17/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.1

Final Pressure (psig): 3.5

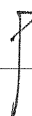
Canister Dilution Factor: 1.23

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	1.43	0.306	1.14	0.243	1.285	23	25	
Tetrachloroethene	2.42	0.357	1.99	0.293	2.205	20	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	0.815	0.188	0.659	0.152	0.737	21	25	
m,p-Xylenes	2.32	0.534	1.86	0.427	2.09	22	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	1.87	0.440	1.51	0.354	1.69	21	25	
o-Xylene	1.08	0.248	0.775	0.178	0.9275	33	25	R
n-Nonane	ND	ND	ND	ND	-	-	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	89.6	16.1	74.1	13.3	81.85	19	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	1.08	0.221	0.865	0.176	0.9725	22	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	0.232	0.0387	0.151	0.0252	0.1915	42	25	R
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	17.0	3.05	14.2	2.56	15.6	18	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	1.39	0.266	1.03	0.196	1.21	30	25	R
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

R = Duplicate precision not met.

Verified By: _____



Date: _____

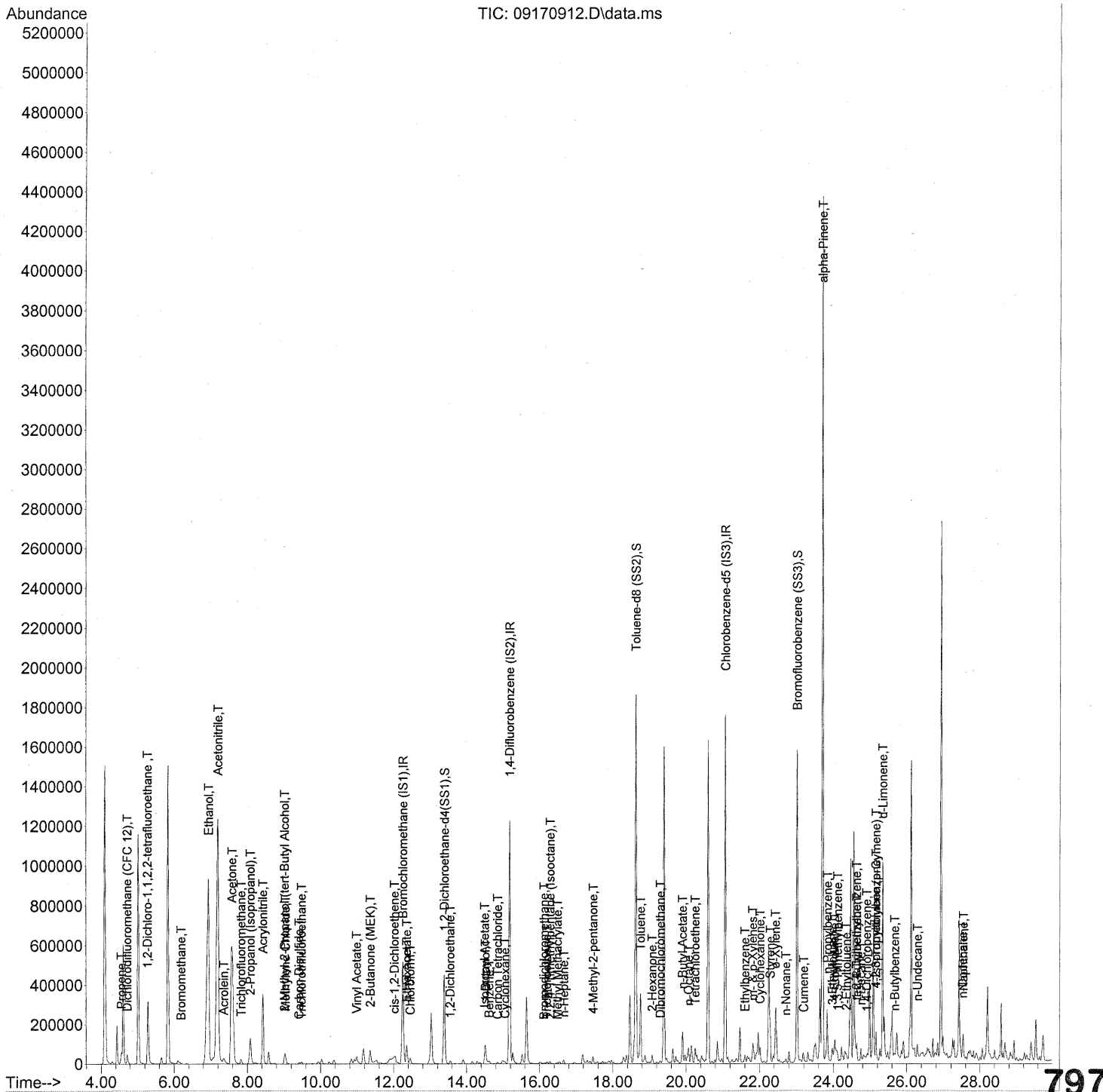
9/22/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:44:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827 ✓
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:44:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

in 9/21/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.25	130	344381	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.17	114	1654254	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	716493	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.39	65	458513	24.160	ng	-0.03
Spiked Amount	25.000			Recovery =	96.64%	✓
57) Toluene-d8 (SS2)	18.63	98	1737039	24.220	ng	-0.01
Spiked Amount	25.000			Recovery =	96.88%	✓
73) Bromofluorobenzene (SS3)	23.02	174	693619	26.988	ng	0.00
Spiked Amount	25.000			Recovery =	107.96%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	22152	1.580	ng	92
3) Dichlorodifluoromethan...	4.72	85	52767	1.968	ng	99
4) Chloromethane	0.00	50	0	N.D.	d	
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1329	0.083	ng	78
6) Vinyl Chloride	5.47	62	65	N.D.		
7) 1,3-Butadiene	5.74	54	677	N.D.		
8) Bromomethane	6.20	94	701	0.050	ng	88
9) Chloroethane	6.53	64	65	N.D.		
10) Ethanol	6.94	45	2470386m	242.995	ng	
11) Acetonitrile	7.20	41	2671296	103.890	ng	99
12) Acrolein	7.36	56	35129	4.644	ng	100
13) Acetone	7.58	58	632868	61.791	ng	# 79
14) Trichlorofluoromethane	7.83	101	24816	0.999	ng	98
15) 2-Propanol (Isopropanol)	8.08	45	285140	8.083	ng	97
16) Acrylonitrile	8.43	53	6456	0.325	ng	# 25
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.02	59	15549	0.426	ng	# 1
19) Methylene Chloride	9.04	84	4002	0.256	ng	# 76
20) 3-Chloro-1-propene (Al...	9.14	41	737	N.D.		
21) Trichlorotrifluoroethane	9.48	151	5784	0.473	ng	87
22) Carbon Disulfide	9.41	76	19152	0.354	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	10.87	73	644	N.D.		
26) Vinyl Acetate	10.99	86	16916	5.485	ng	# 1
27) 2-Butanone (MEK)	11.36	72	37960	3.858	ng	# 75
28) cis-1,2-Dichloroethene	12.02	61	1192	0.063	ng	# 13
29) Diisopropyl Ether	12.36	87	232	N.D.		
30) Ethyl Acetate	12.36	61	22728	4.550	ng	95
31) n-Hexane	12.36	57	6258	0.316	ng	9798

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:44:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	35276	1.453	ng	100
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.	d	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.55	62	12906	0.771	ng	97
38) 1,1,1-Trichloroethane	13.92	97	993	N.D.		
39) Isopropyl Acetate	14.50	61	503	0.055	ng	# 1
40) 1-Butanol	14.51	56	96615	6.474	ng	82
41) Benzene	14.62	78	17901	0.303	ng	98
42) Carbon Tetrachloride	14.85	117	7761	0.438	ng	99
43) Cyclohexane	15.05	84	5487	0.255	ng	98
44) tert-Amyl Methyl Ether	15.53	73	1720	N.D.		
45) 1,2-Dichloropropane	15.86	63	52	N.D.		
46) Bromodichloromethane	16.12	83	5879	0.322	ng	94
47) Trichloroethene	16.20	130	1981	0.112	ng	99
48) 1,4-Dioxane	16.18	88	366	N.D.		
49) 2,2,4-Trimethylpentane...	16.29	57	8483	0.143	ng	66
50) Methyl Methacrylate	16.49	100	1441	0.213	ng	# 85
51) n-Heptane	16.66	71	6652	0.442	ng	94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.46	58	12563	0.955	ng	89
54) trans-1,3-Dichloropropene	18.13	75	62	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.76	91	287861	4.299	ng	99
59) 2-Hexanone	19.08	43	39638	1.228	ng	100
60) Dibromochloromethane	19.30	129	864	0.052	ng	95
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	19.91	43	134600	3.642	ng	94
63) n-Octane	20.07	57	11601	0.923	ng	93
64) Tetrachloroethene	20.25	166	33372	1.615	ng	98
65) Chlorobenzene	21.12	112	928	N.D.		
66) Ethylbenzene	21.60	91	39390	0.536	ng	96
67) m- & p-Xylenes	21.82	91	86688	1.509	ng	96
68) Bromoform	21.92	173	375	N.D.		
69) Styrene	22.29	104	57833	1.225	ng	95
70) o-Xylene	22.44	91	37009	0.630	ng	89
71) n-Nonane	22.71	43	8357	0.293	ng	92
72) 1,1,2,2-Tetrachloroethane	22.40	83	906	N.D.		
74) Cumene	23.20	105	7220	0.090	ng	99
75) alpha-Pinene	23.70	93	2274377	60.224	ng	95
76) n-Propylbenzene	23.84	91	14028	0.149	ng	# 10
77) 3-Ethyltoluene	23.97	105	30071	0.396	ng	99
78) 4-Ethyltoluene	24.03	105	18073	0.241	ng	97
79) 1,3,5-Trimethylbenzene	24.12	105	12046	0.193	ng	97

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:44:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

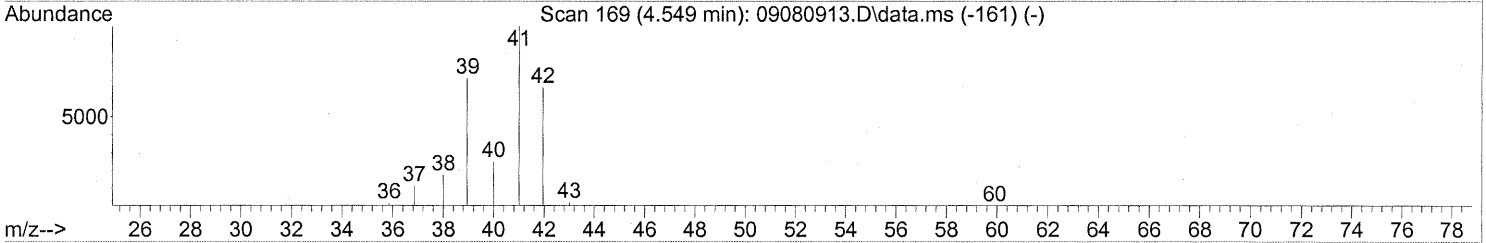
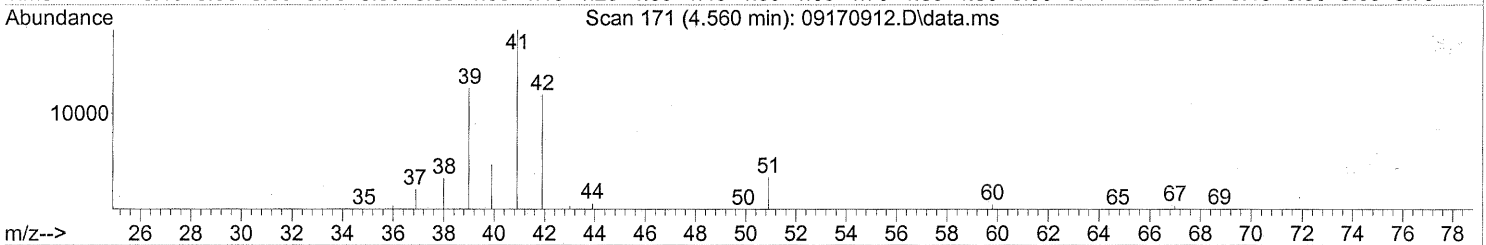
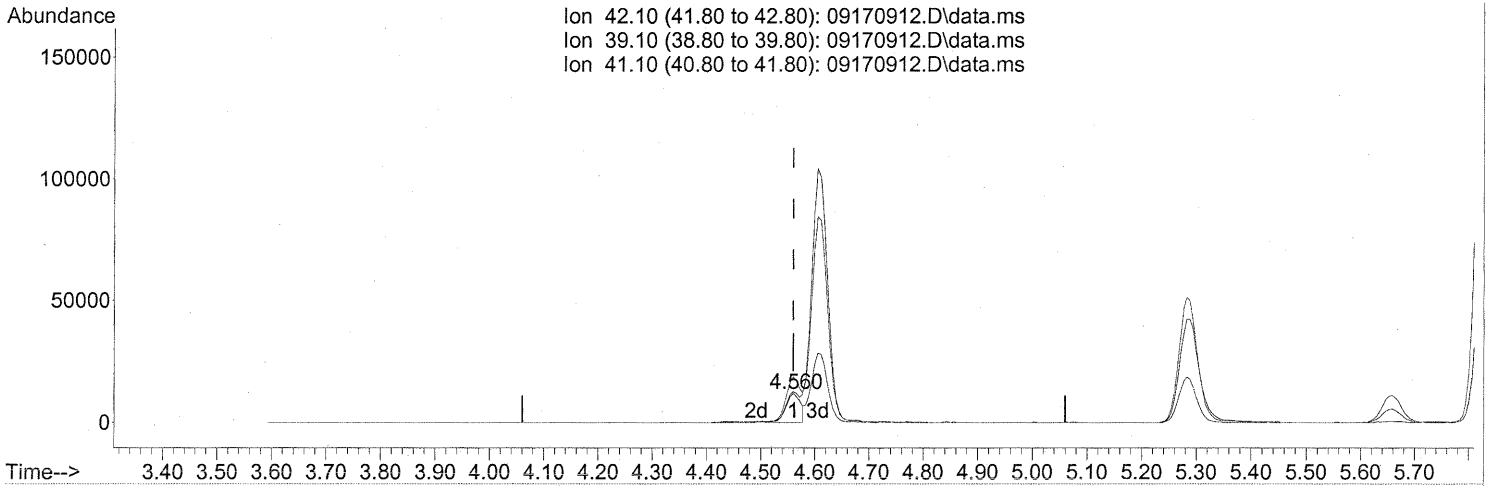
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	1634	N.D.		
81) 2-Ethyltoluene	24.36	105	13473	0.169 ng		92
82) 1,2,4-Trimethylbenzene	24.63	105	46788	0.703 ng		91
83) n-Decane	24.75	57	25122	0.721 ng		88
84) Benzyl Chloride	24.82	91	1699	N.D.		
85) 1,3-Dichlorobenzene	24.83	146	517	N.D.		
86) 1,4-Dichlorobenzene	24.91	146	4959	0.123 ng		98
87) sec-Butylbenzene	24.97	105	2844	N.D.		
88) 4-Isopropyltoluene (p-...	25.16	119	75463	0.893 ng		92
89) 1,2,3-Trimethylbenzene	25.16	105	16849	0.258 ng	#	58
90) 1,2-Dichlorobenzene	25.34	146	756	N.D.		
91) d-Limonene	25.34	68	276955	11.581 ng		77
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.29	57	20212	0.503 ng	#	16
94) 1,2,4-Trichlorobenzene	27.39	180	582	N.D.		
95) Naphthalene	27.53	128	80610	0.834 ng		99
96) n-Dodecane	27.52	57	20161	0.509 ng		90
97) Hexachlorobutadiene	27.95	225	52	N.D.		
98) Cyclohexanone	22.01	55	42021	1.696 ng	#	89
99) tert-Butylbenzene	24.64	119	6555	0.100 ng	#	55
100) n-Butylbenzene	25.67	91	16136	0.241 ng	#	65

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(2) Propene (T)

4.560min (-0.000) 1.58ng

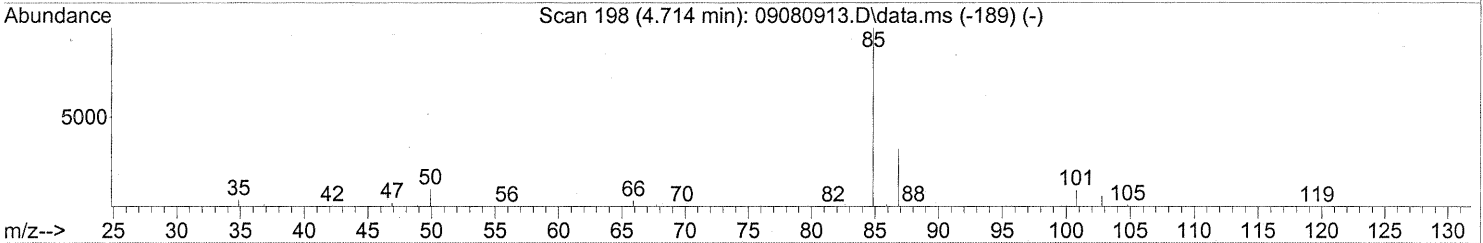
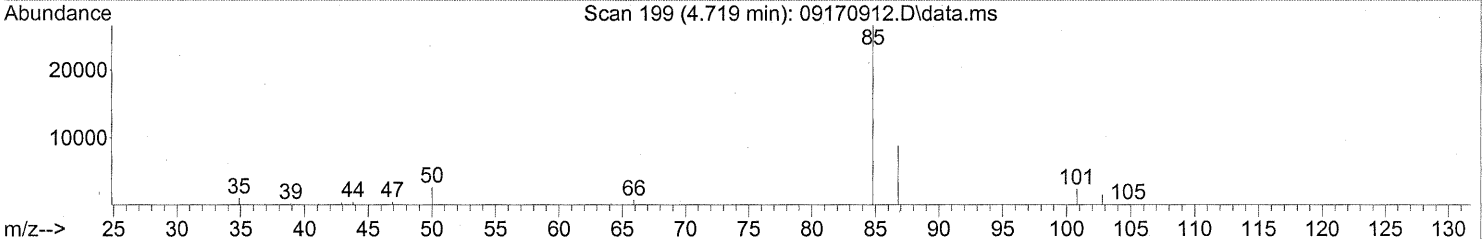
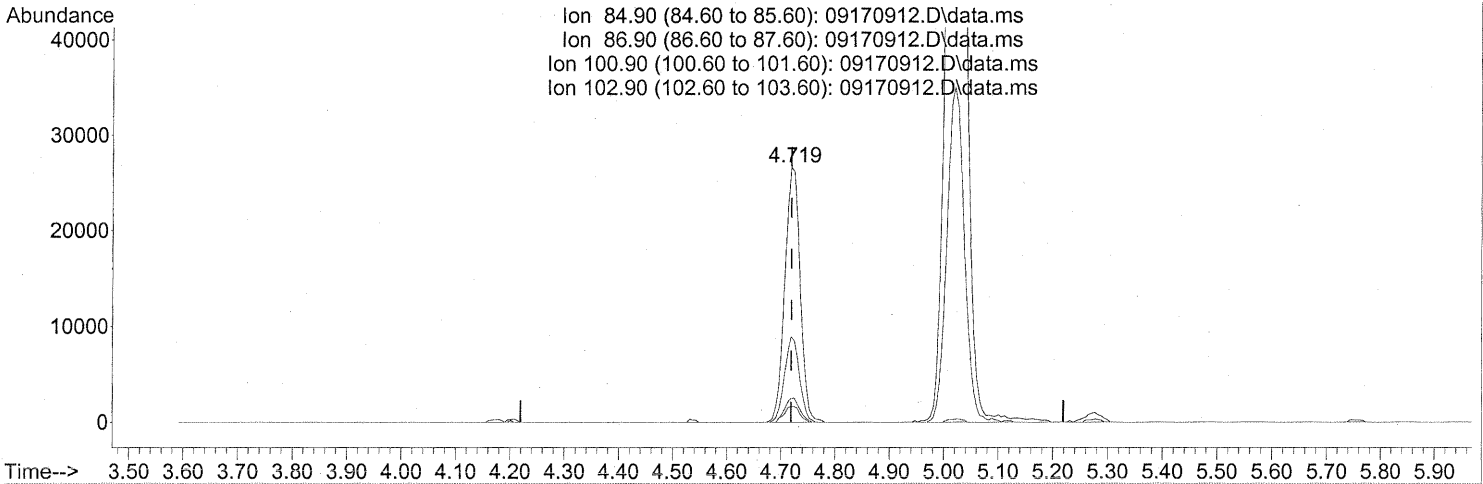
response 22152

Ion	Exp%	Act%
42.10	100	100
39.10	109.30	98.35
41.10	152.10	159.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.719min (-0.000) 1.97ng

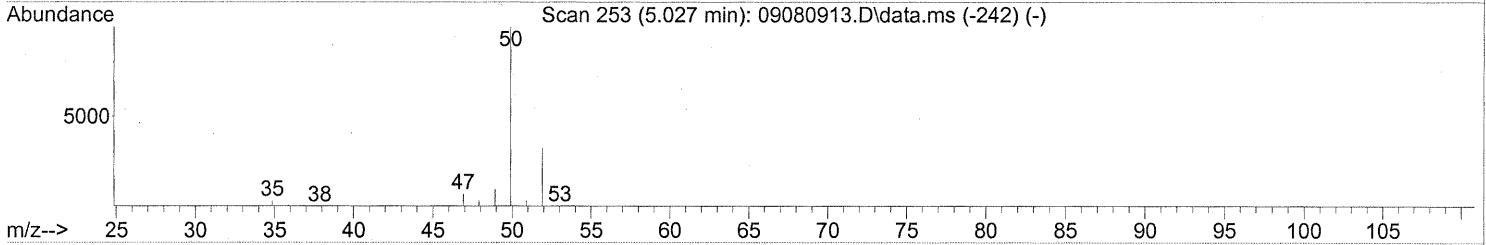
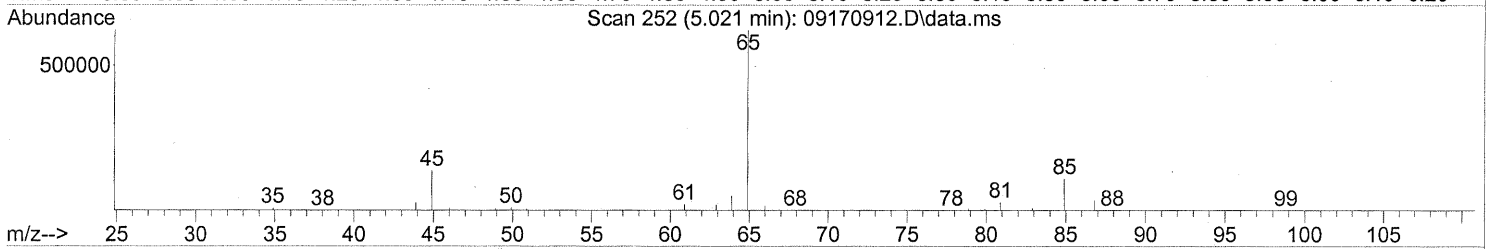
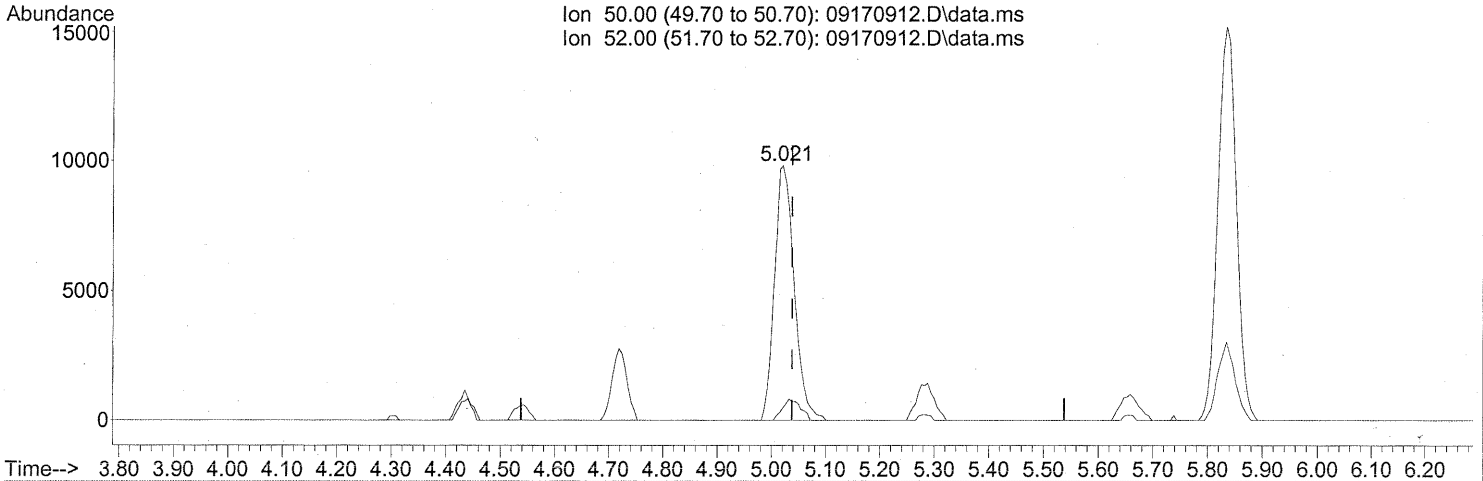
response 52767

Ion	Exp%	Act%
84.90	100	100
86.90	32.70	32.48
100.90	8.60	9.21
102.90	5.90	6.22

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(4) Chloromethane (T)

5.021min (-0.017) 1.13ng

response 24840

Ion	Exp%	Act%
50.00	100	100
52.00	32.20	7.56#
0.00	0.00	0.00
0.00	0.00	0.00

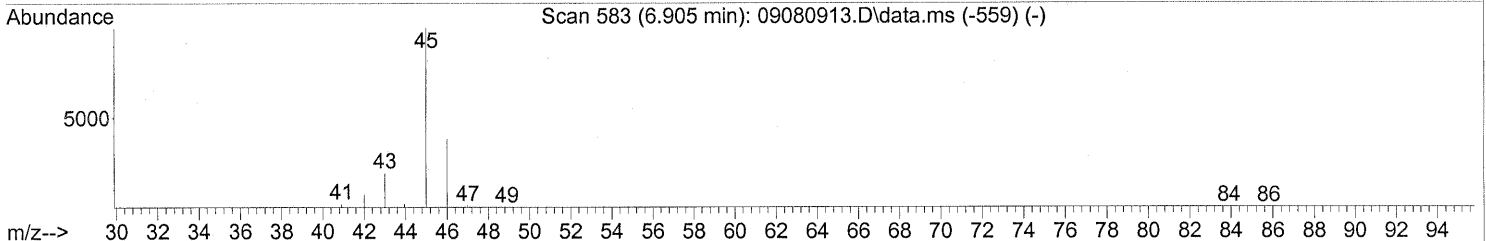
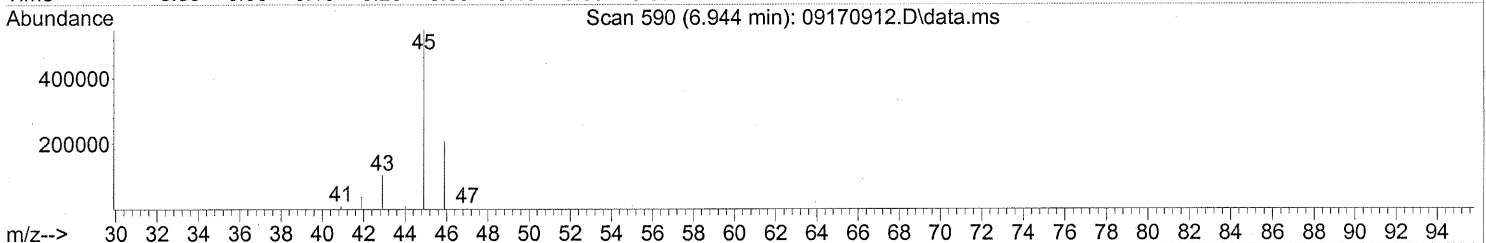
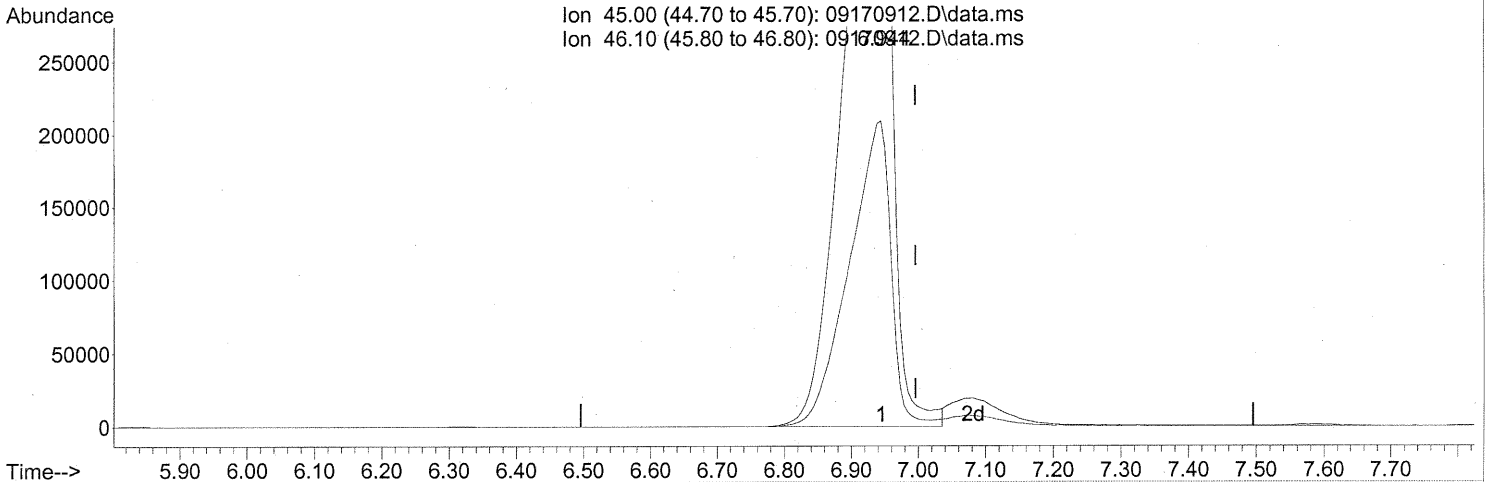
FP in 9/21/09

Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170912.D
Acq On : 17 Sep 2009 14:51
Operator : LH
Sample : P0903145-013Dup (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170912.D\data.ms

(10) Ethanol (T)
6.944min (-0.051) 232.71ng

PT

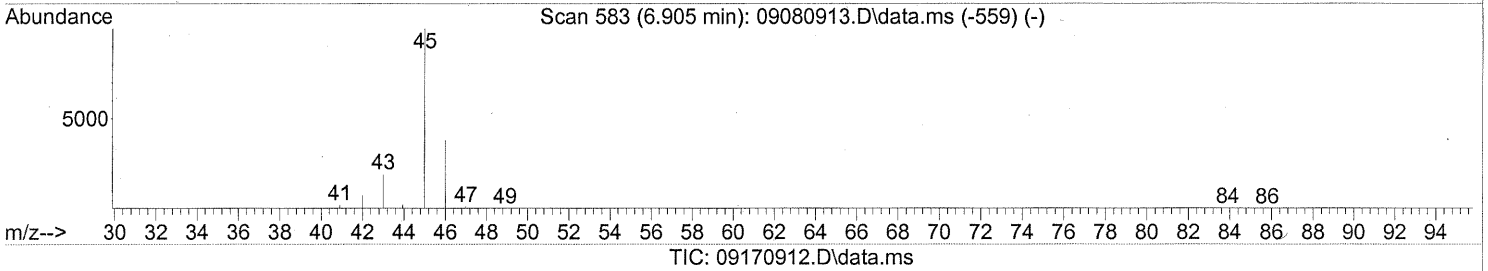
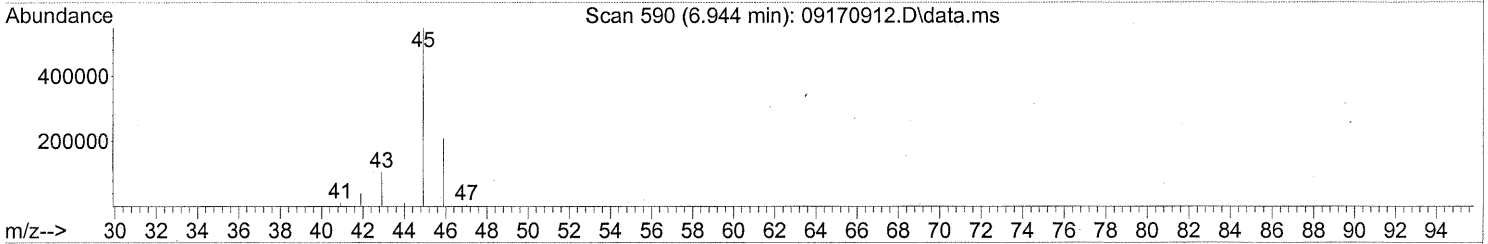
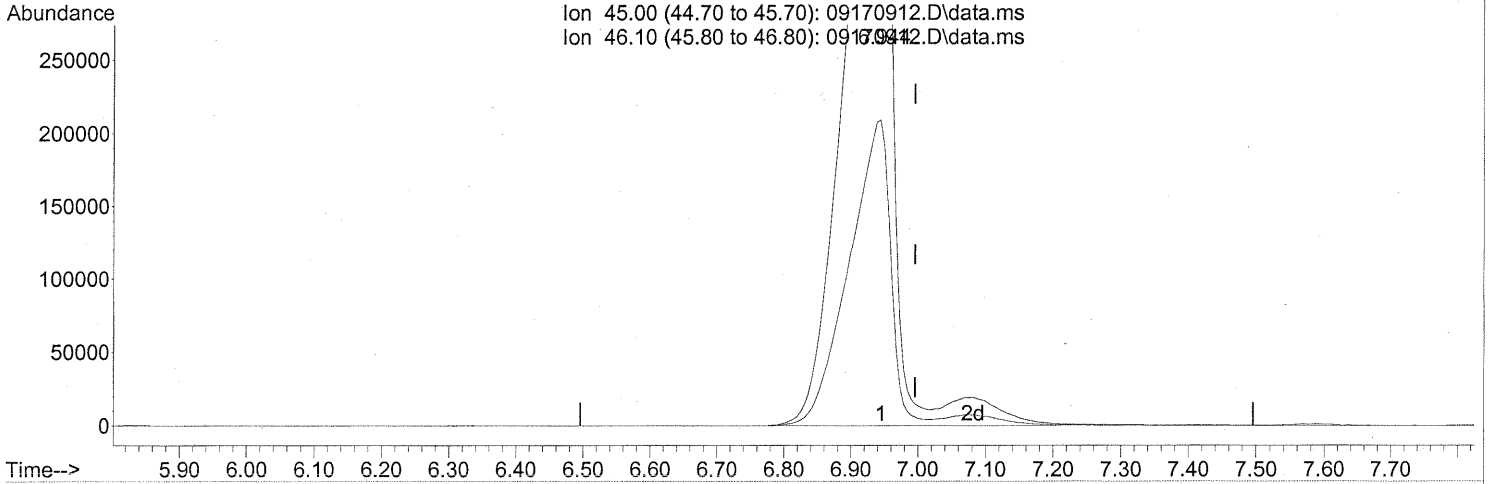
response 2365792

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170912.D
Acq On : 17 Sep 2009 14:51
Operator : LH
Sample : P0903145-013Dup (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(10) Ethanol (T)
6.944min (-0.051) 243.00ng m
response 2470386

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.49
0.00	0.00	0.00
0.00	0.00	0.00

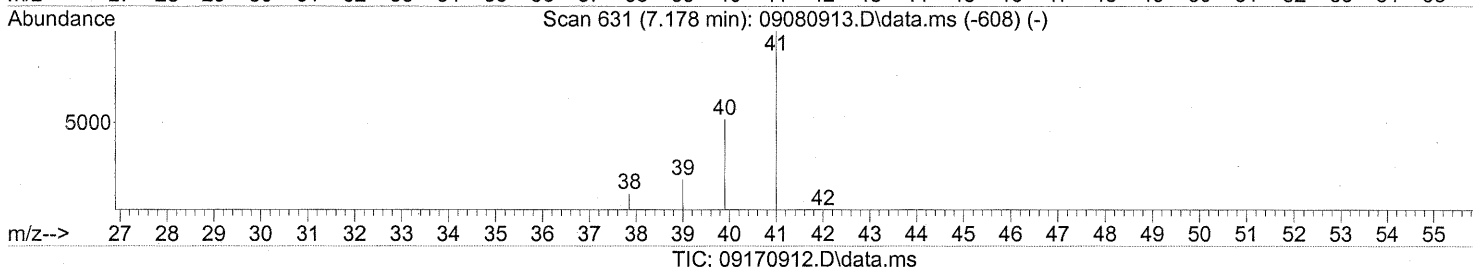
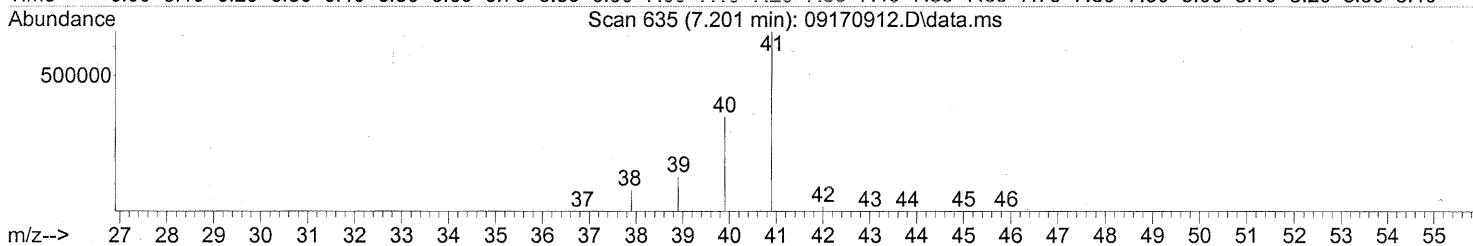
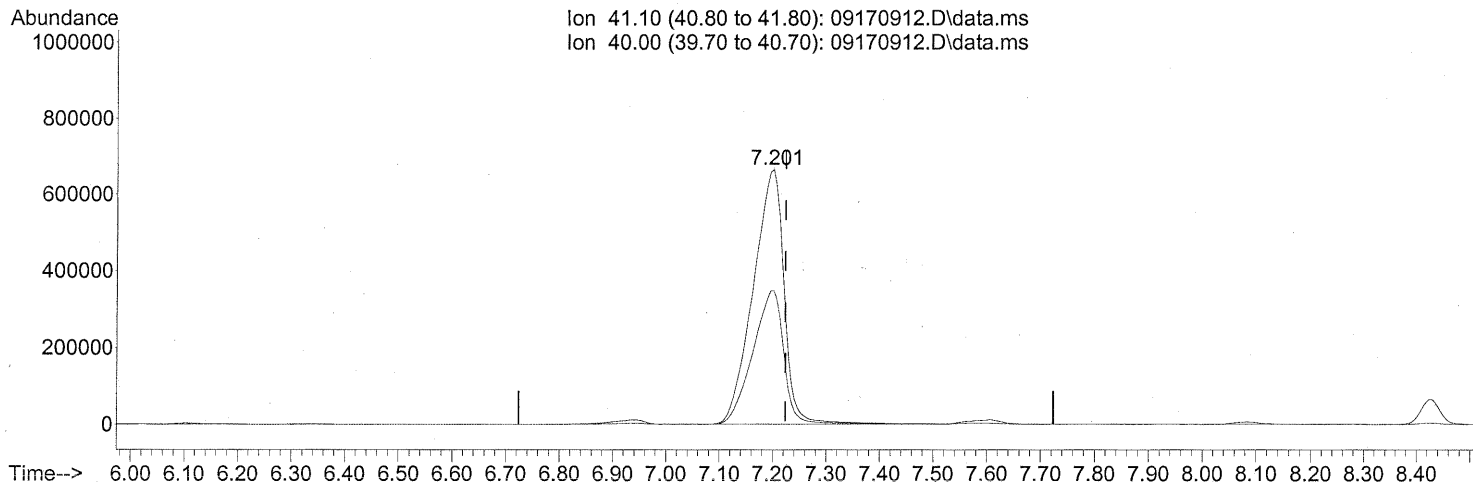
PT → IC
UH 9/21/09

Em 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

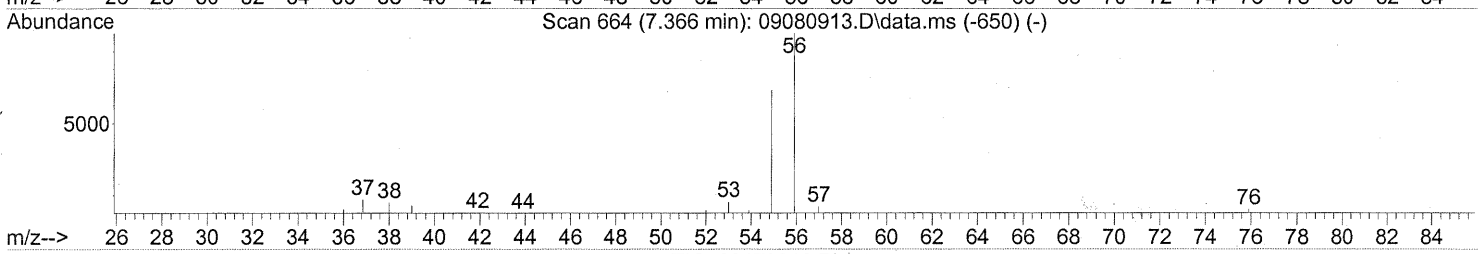
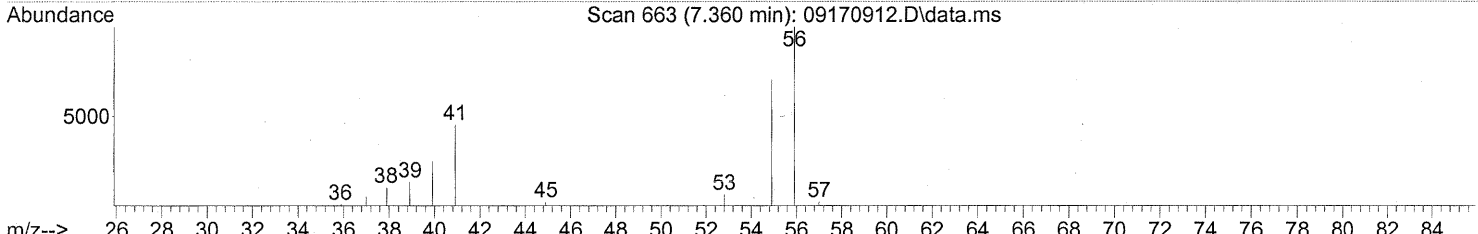
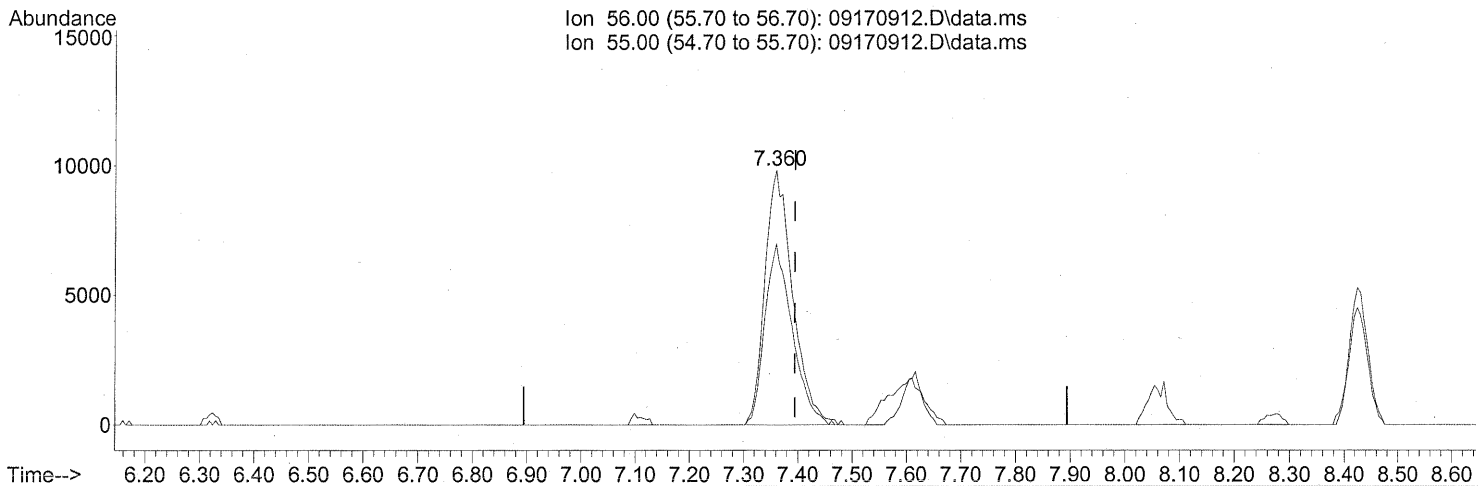
7.201min (-0.023) 103.89ng
 response 2671296

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	52.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(12) Acrolein (T)

7.360min (-0.034) 4.64ng

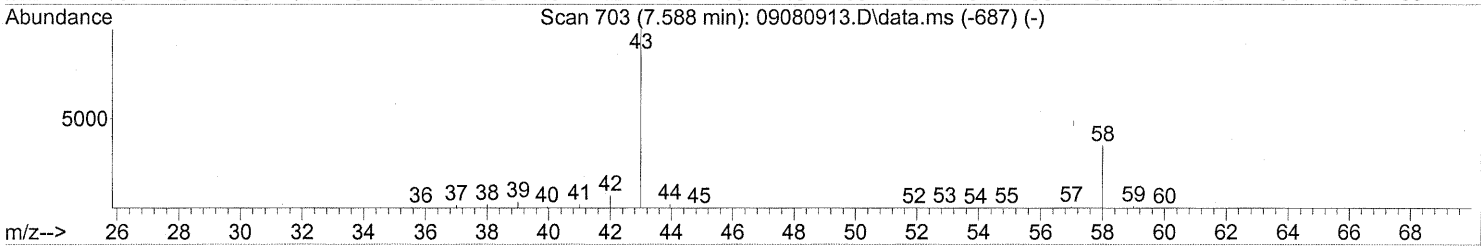
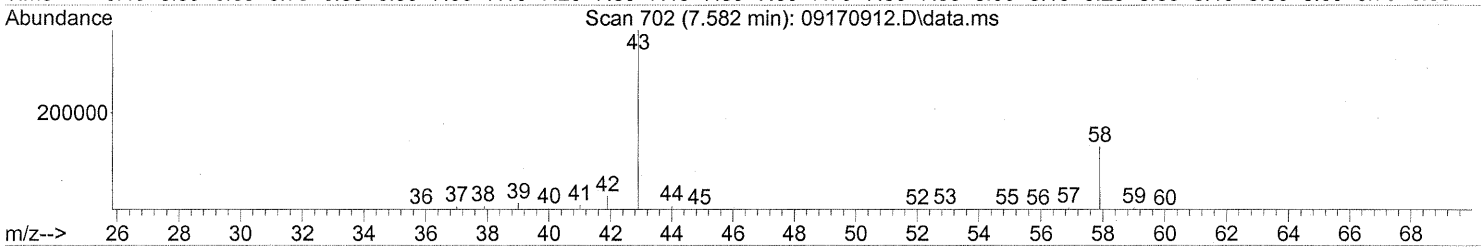
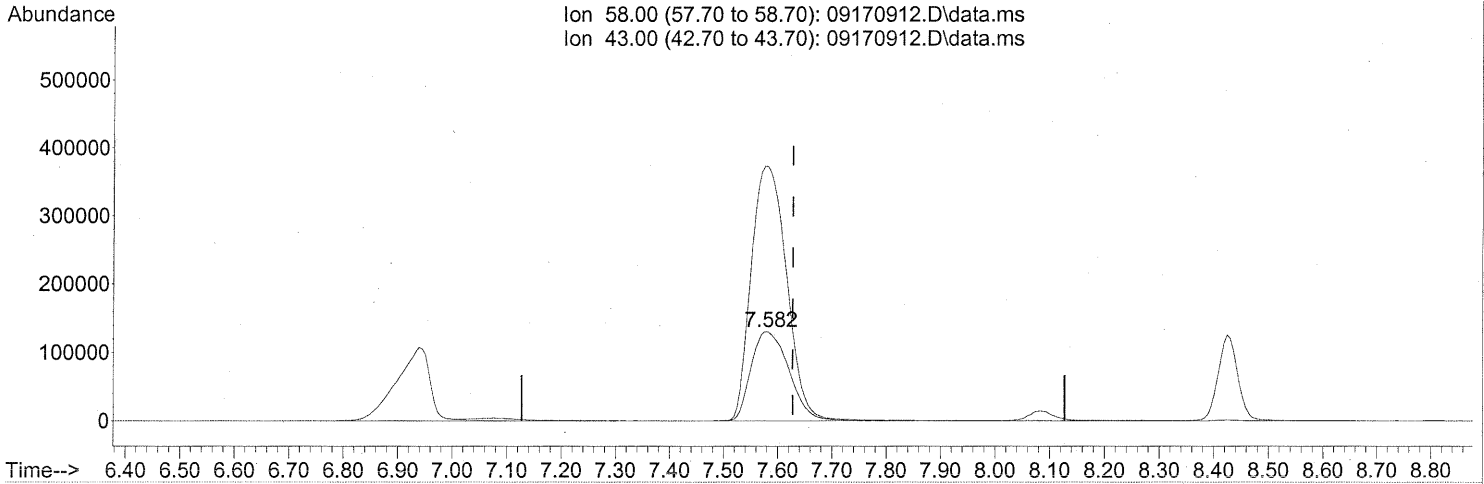
response 35129

Ion	Exp%	Act%
56.00	100	100
55.00	69.70	70.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.582min (-0.046) 61.79ng

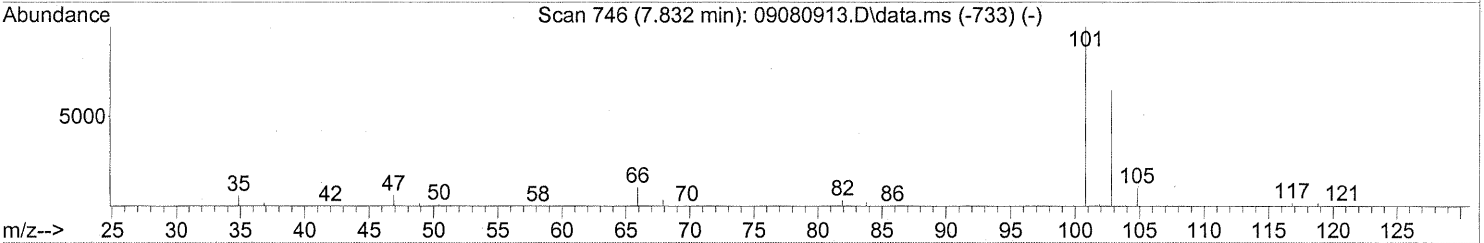
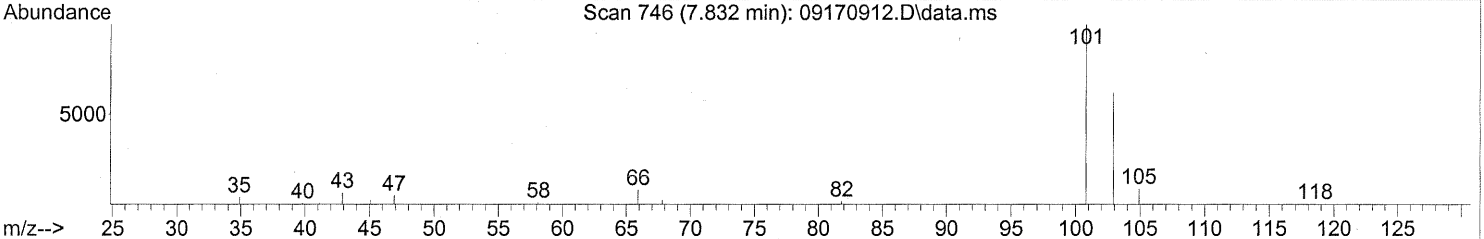
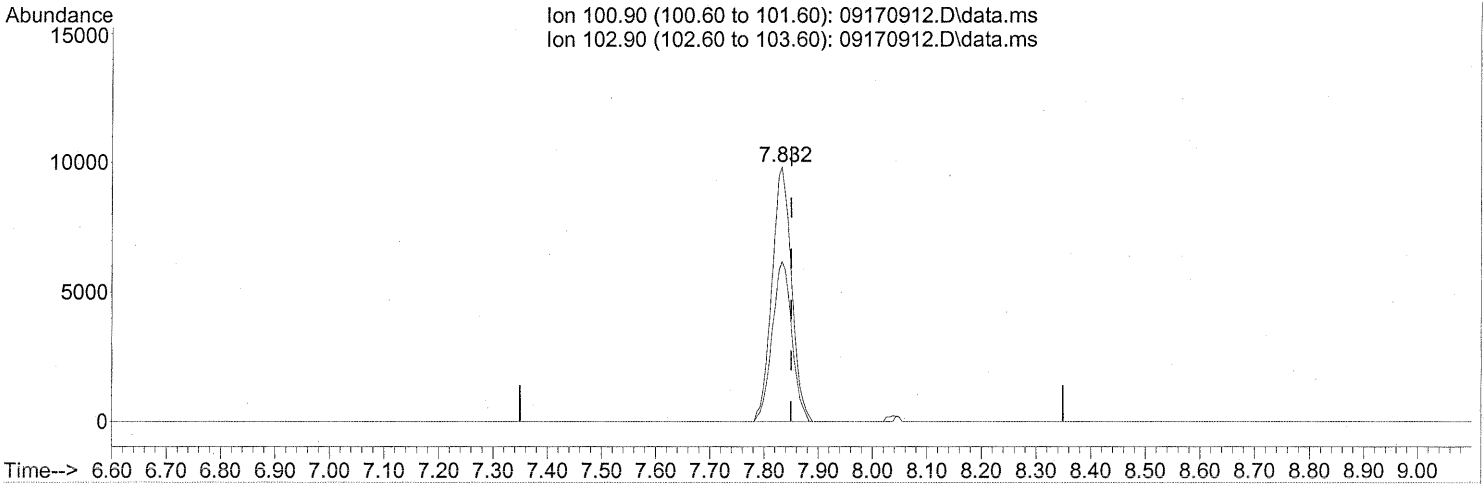
response 632868

Ion	Exp%	Act%
58.00	100	100
43.00	310.70	268.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170912.D
Acq On : 17 Sep 2009 14:51
Operator : LH
Sample : P0903145-013Dup (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170912.D\data.ms

(14) Trichlorofluoromethane (T)

7.832min (-0.017) 1.00ng

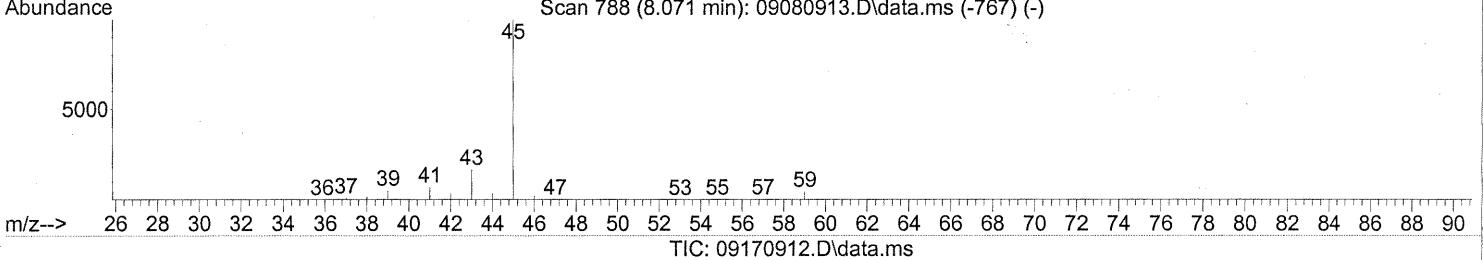
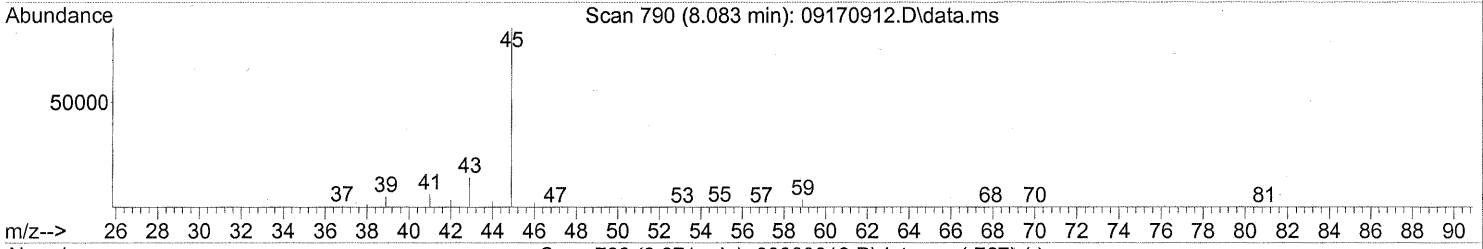
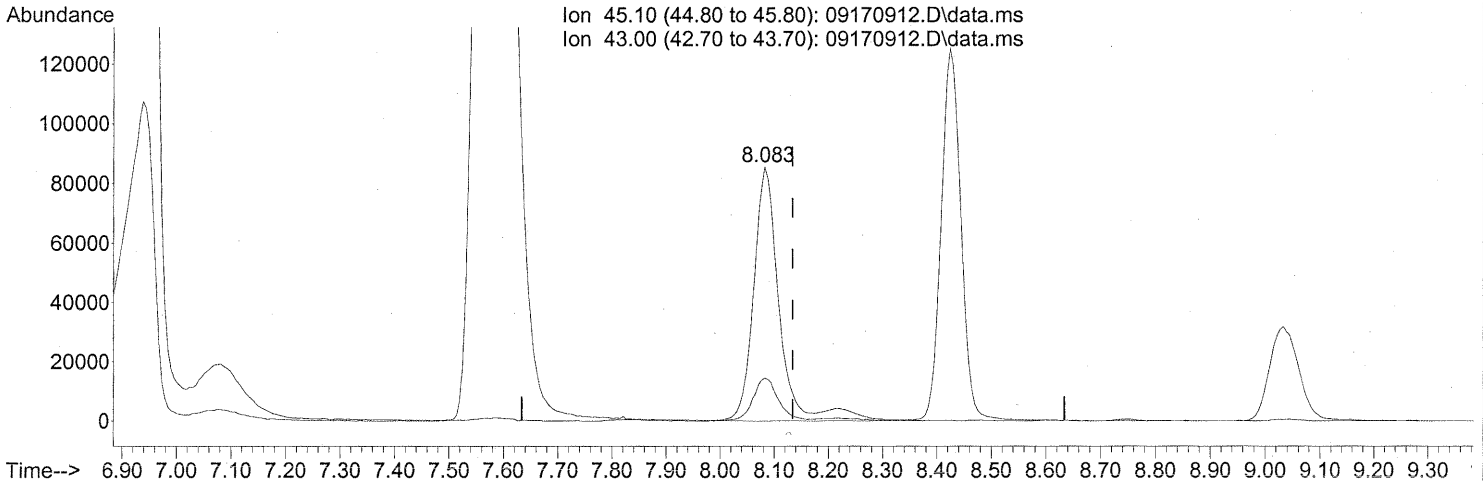
response 24816

Ion	Exp%	Act%
100.90	100	100
102.90	64.70	62.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.083min (-0.051) 8.08ng

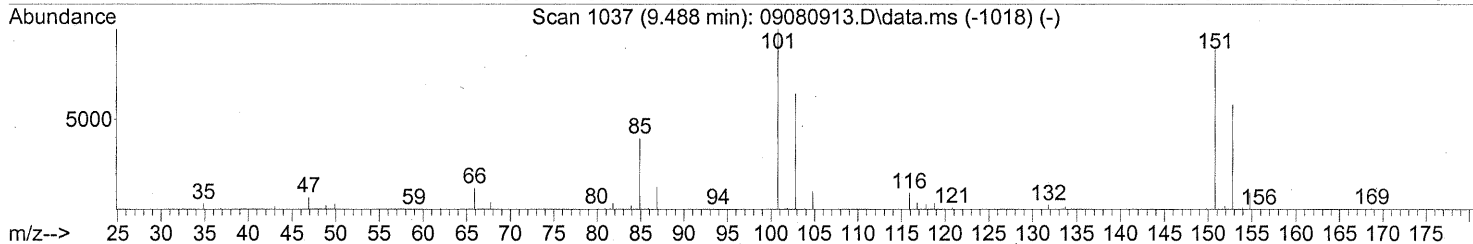
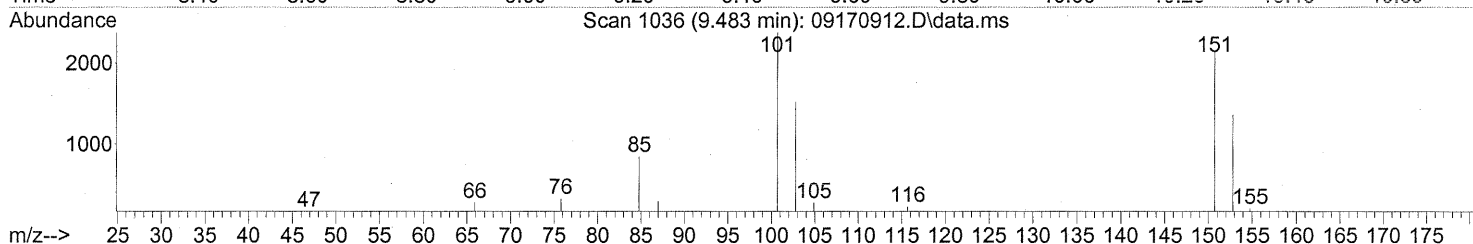
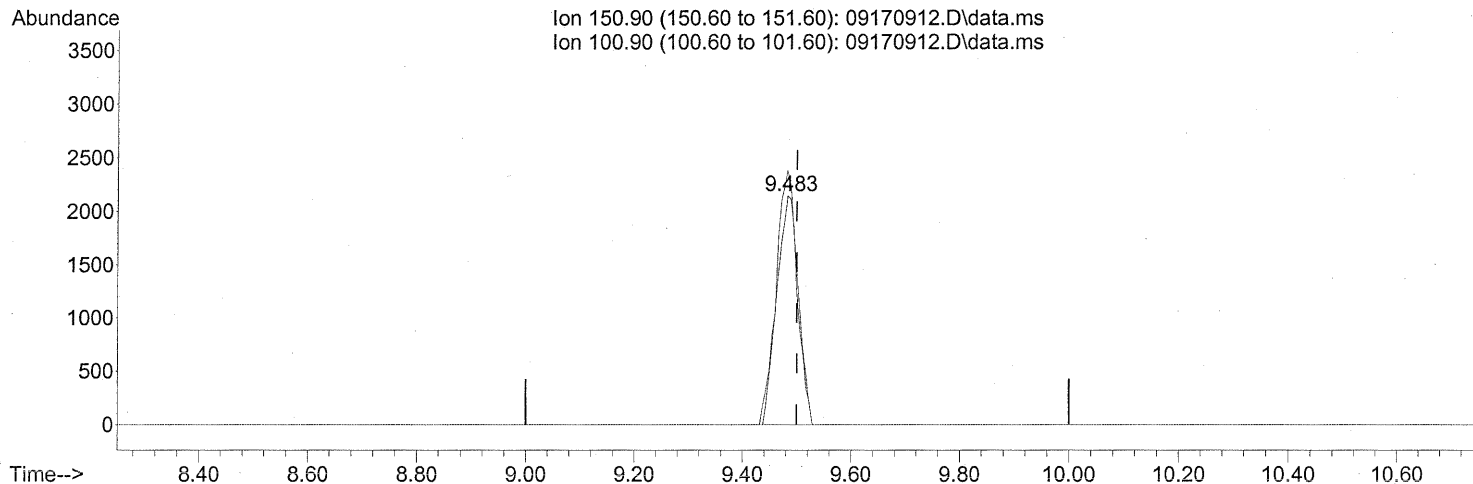
response 285140

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.483min (-0.017) 0.47ng

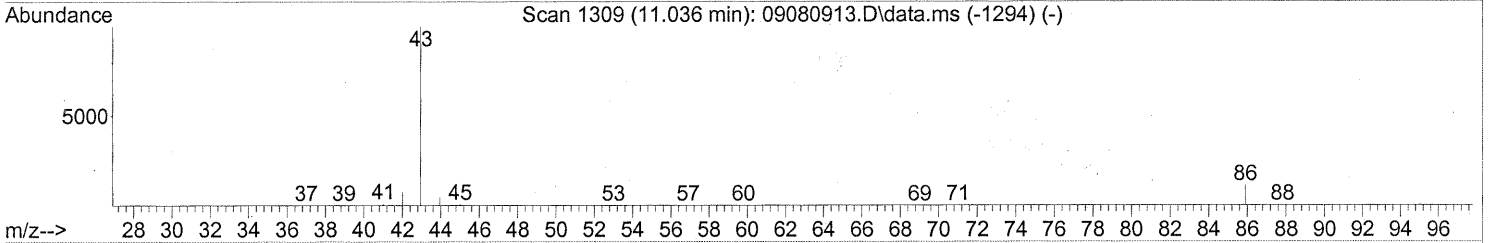
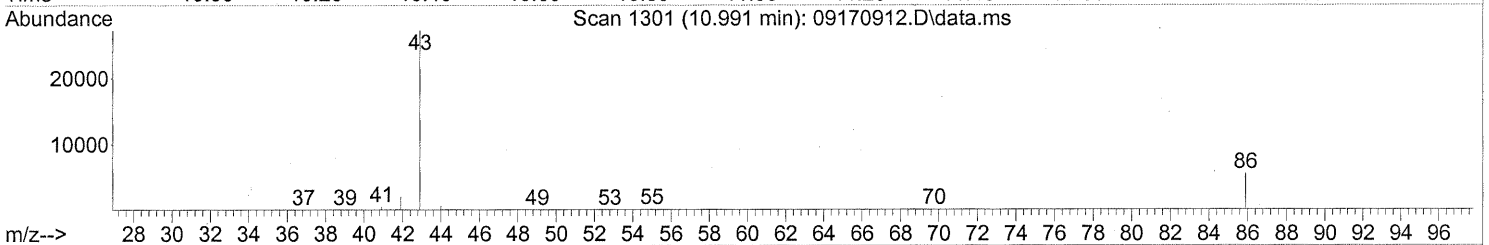
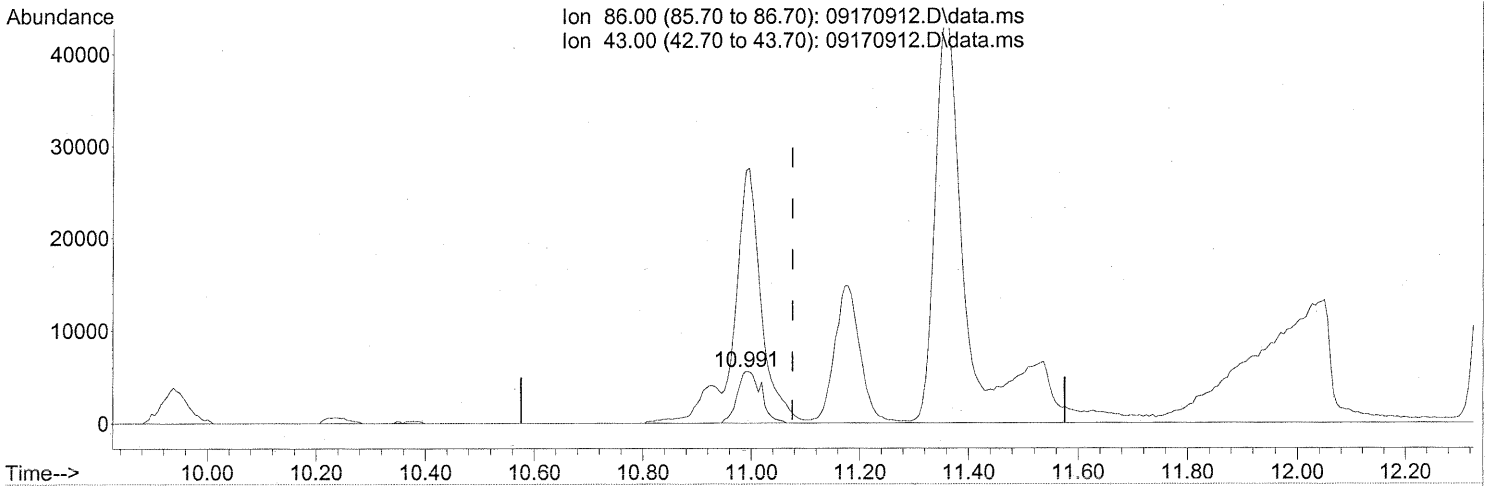
response 5784

Ion	Exp%	Act%
150.90	100	100
100.90	128.60	113.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(26) Vinyl Acetate (T)

10.991min (-0.085) 5.48ng

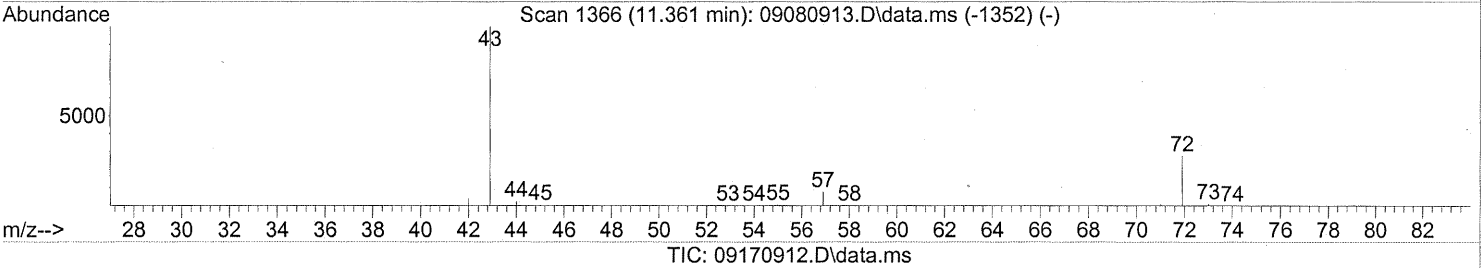
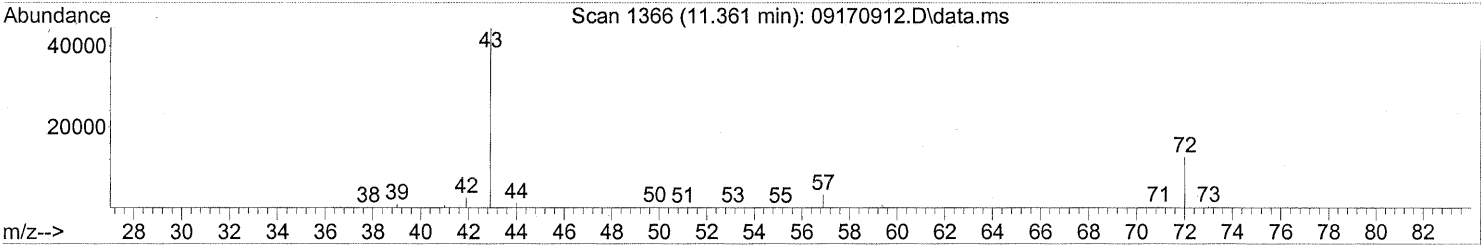
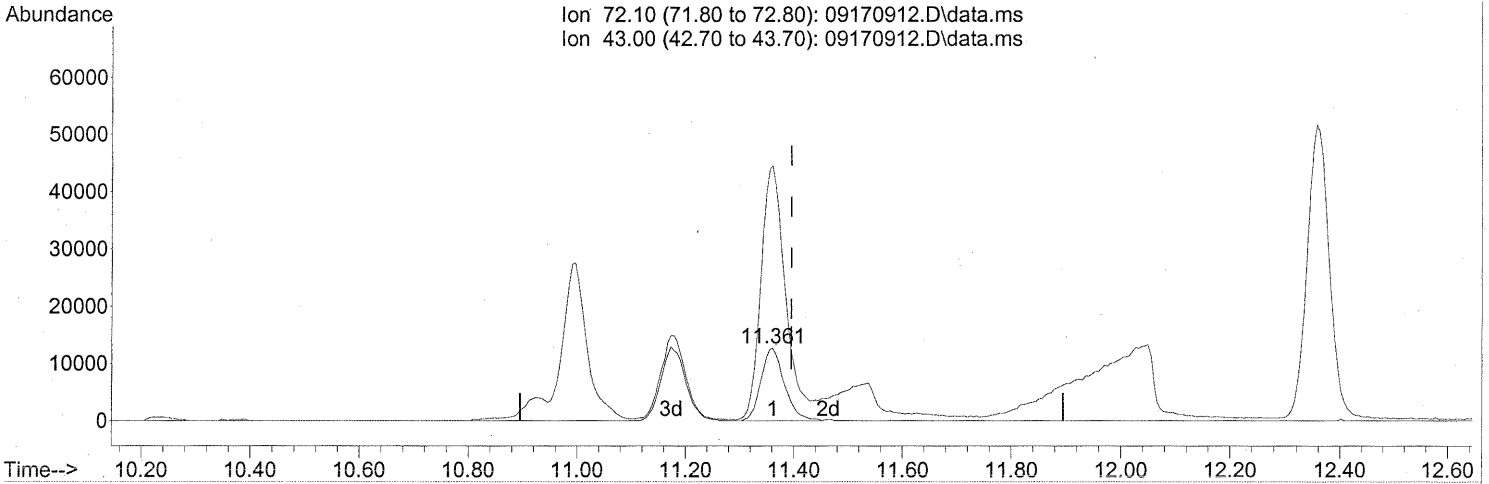
response 16916

Ion	Exp%	Act%
86.00	100	100
43.00	1165.50	484.91#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170912.D
Acq On : 17 Sep 2009 14:51
Operator : LH
Sample : P0903145-013Dup (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



(27) 2-Butanone (MEK) (T)

11.361min (-0.034) 3.86ng

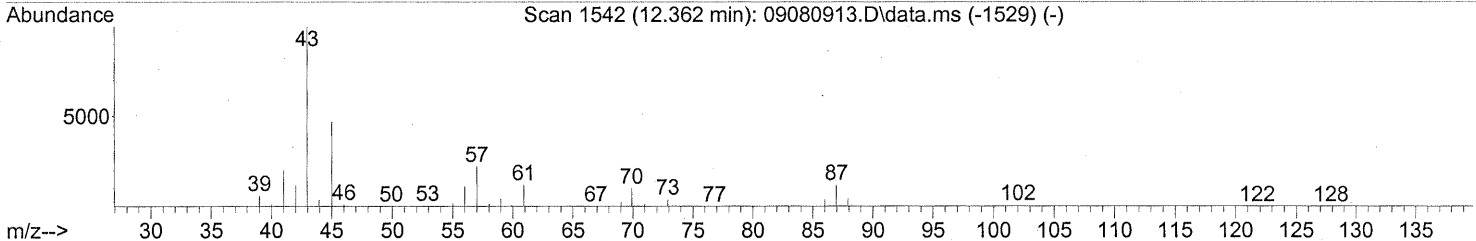
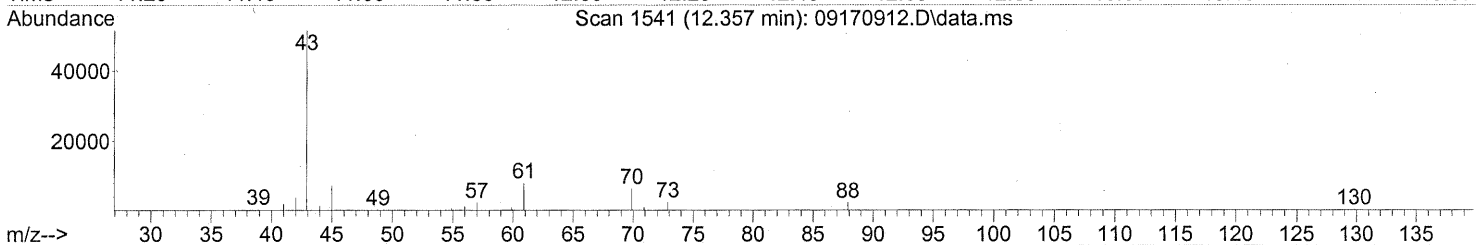
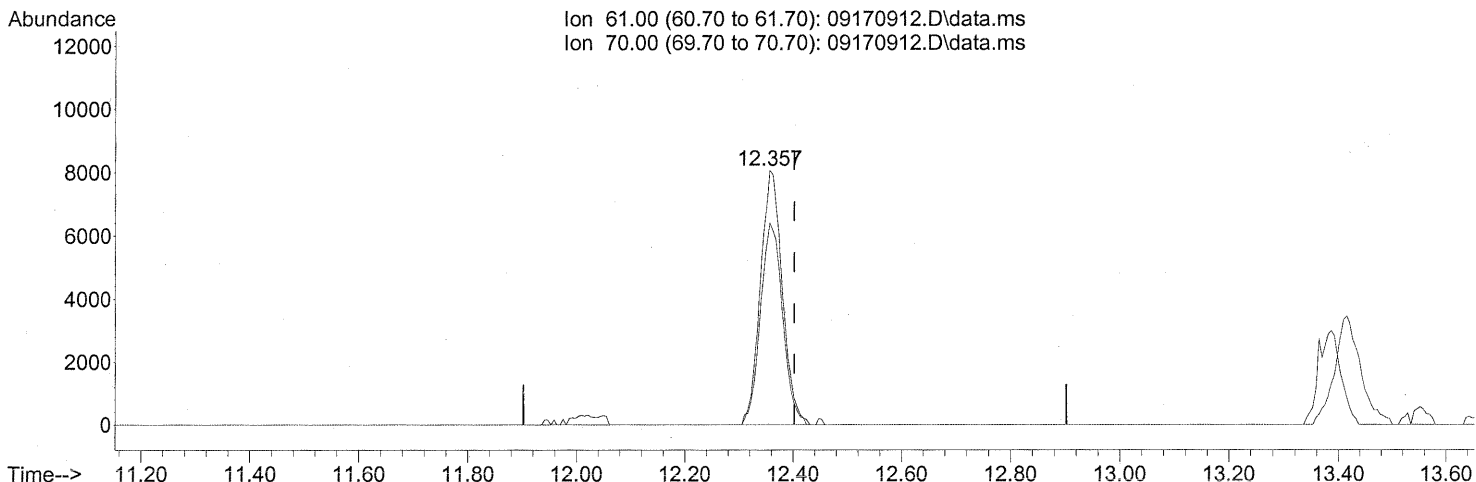
response 37960

Ion	Exp%	Act%
72.10	100	100
43.00	422.70	484.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(30) Ethyl Acetate (T)

12.357min (-0.046) 4.55ng

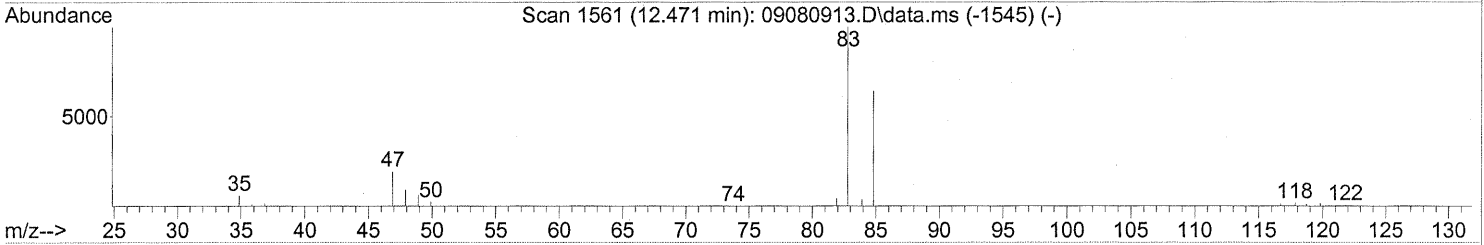
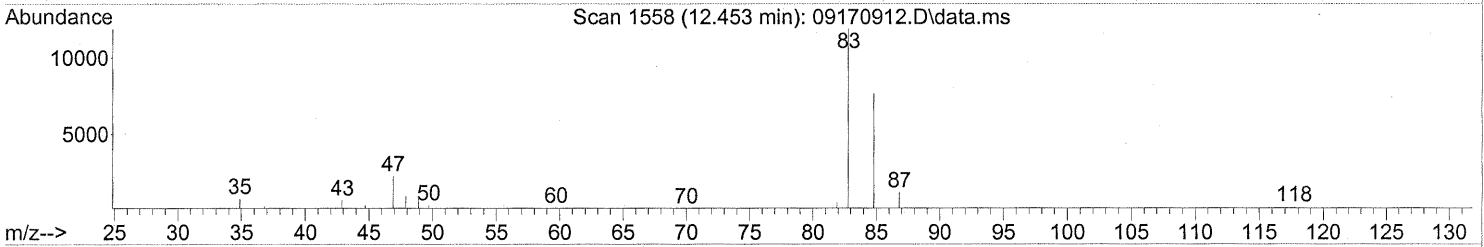
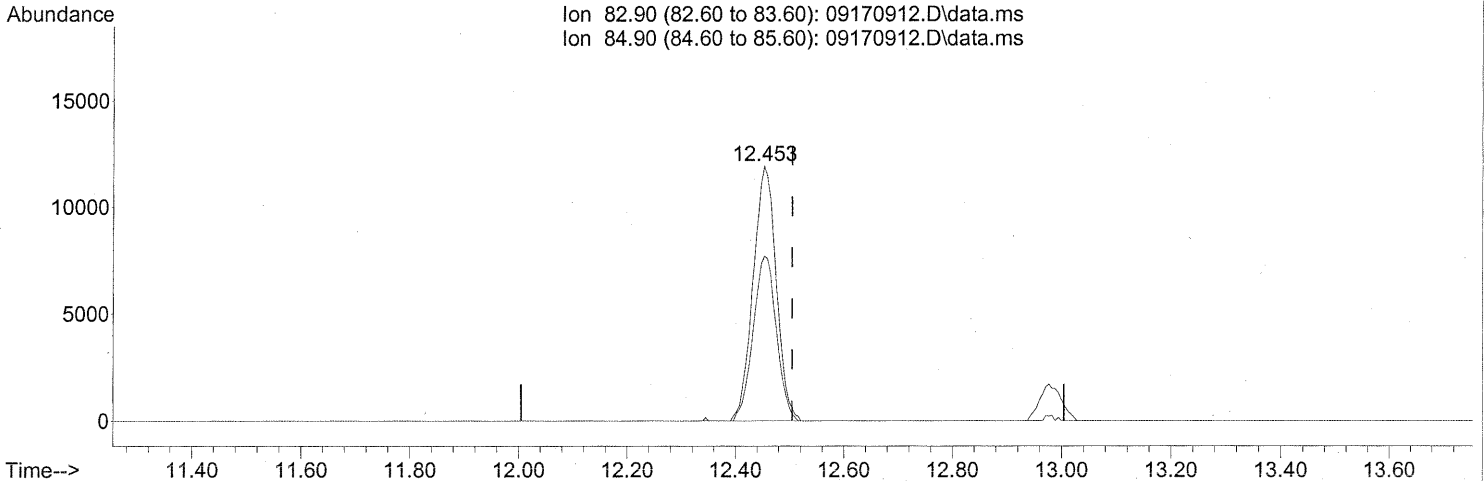
response 22728

Ion	Exp%	Act%
61.00	100	100
70.00	75.90	80.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

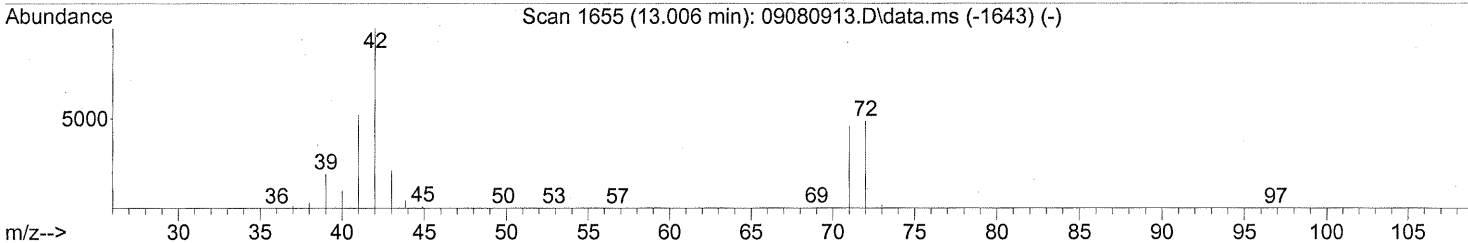
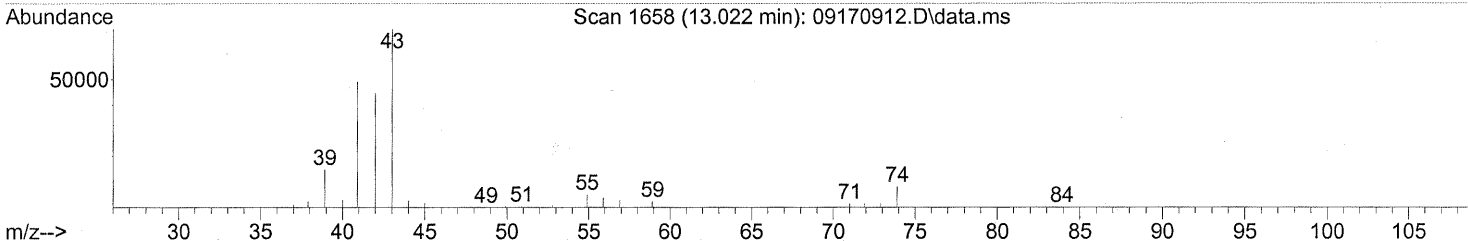
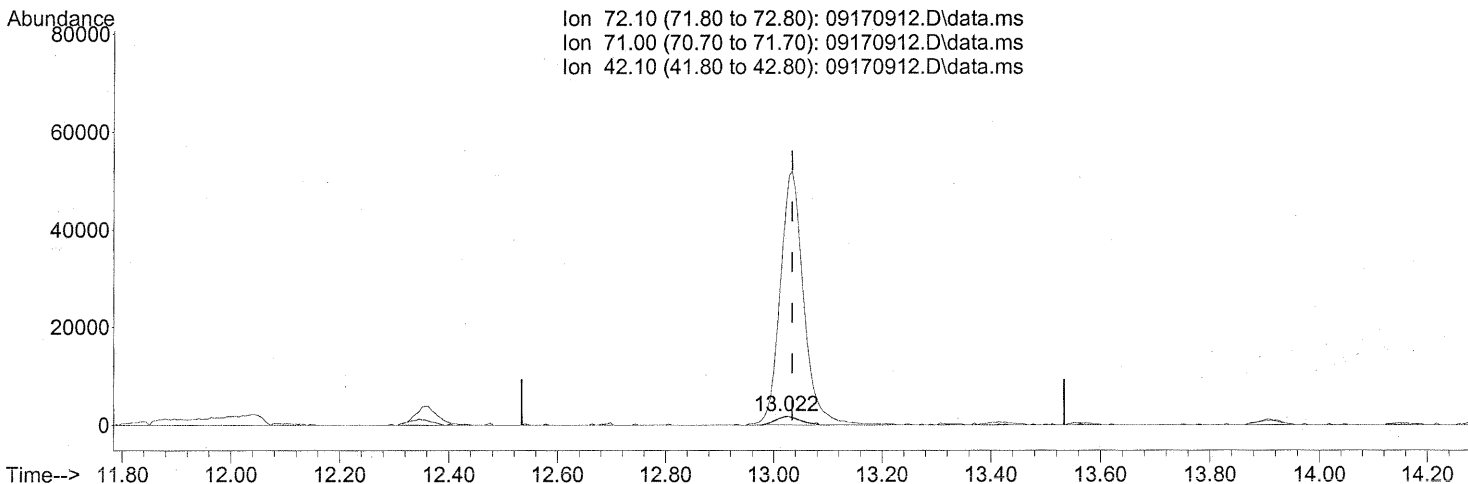
(32) Chloroform (T)
 12.453min (-0.051) 1.45ng
 response 35276

Ion	Exp%	Act%
82.90	100	100
84.90	65.00	65.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.022min (-0.011) 0.62ng

response 5624

Ion	Exp%	Act%
72.10	100	100
71.00	94.80	90.68
42.10	240.00	2790.40#
0.00	0.00	0.00

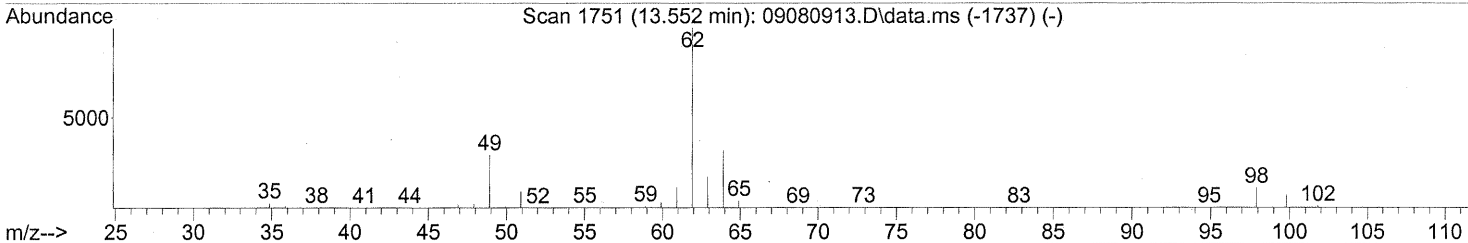
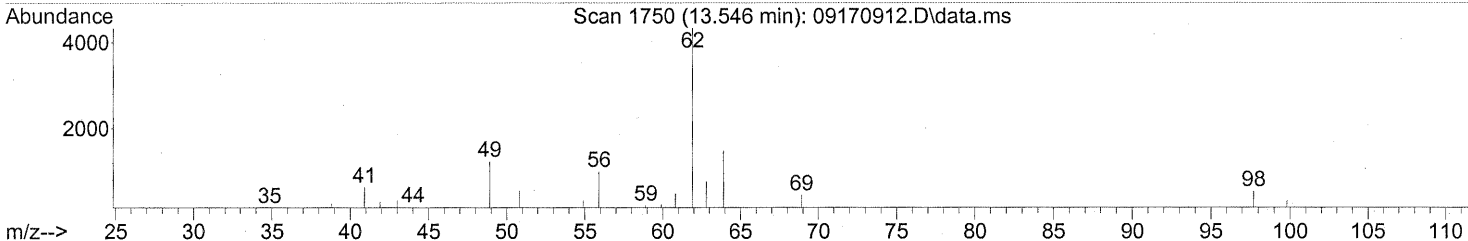
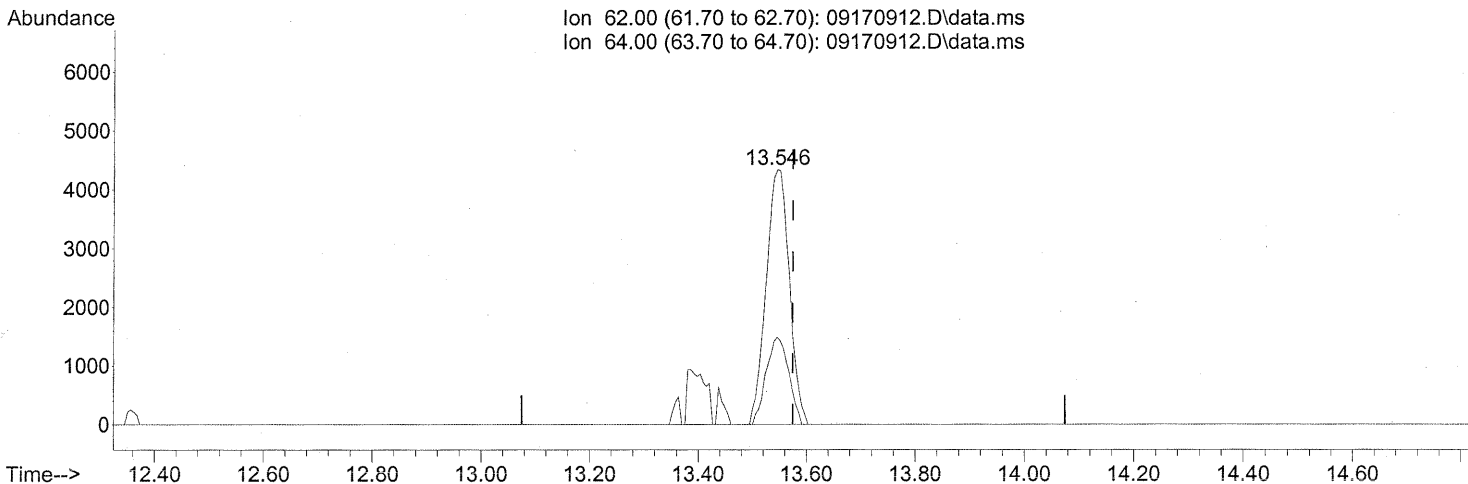
FP in 9/18/09

ELN 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(36) 1,2-Dichloroethane (T)

13.546min (-0.028) 0.77ng

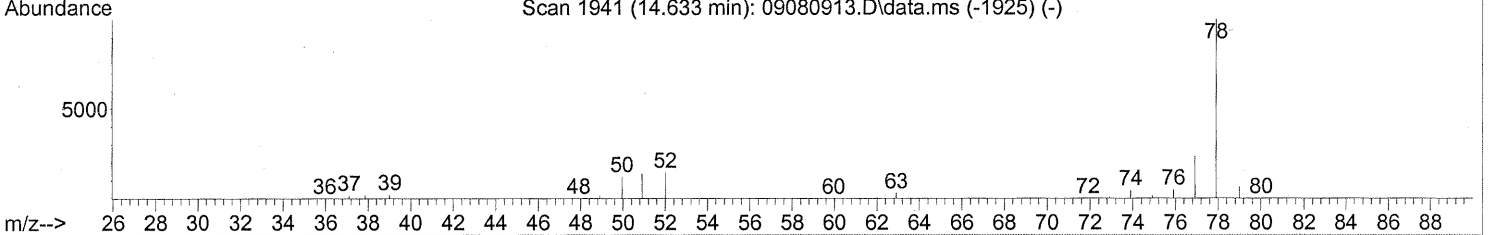
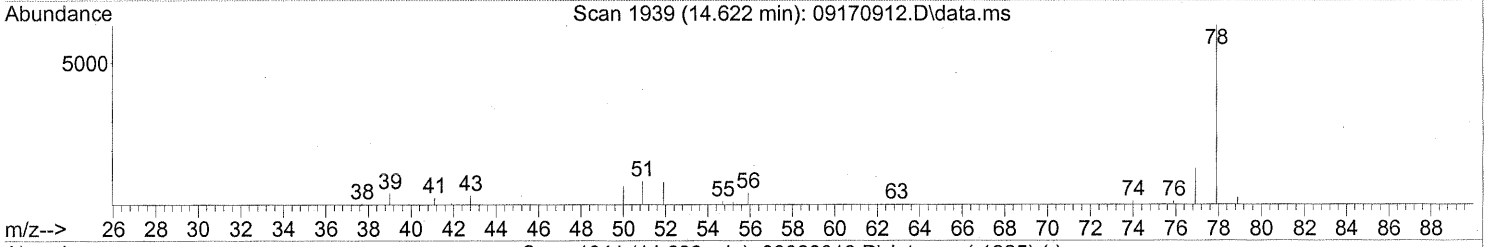
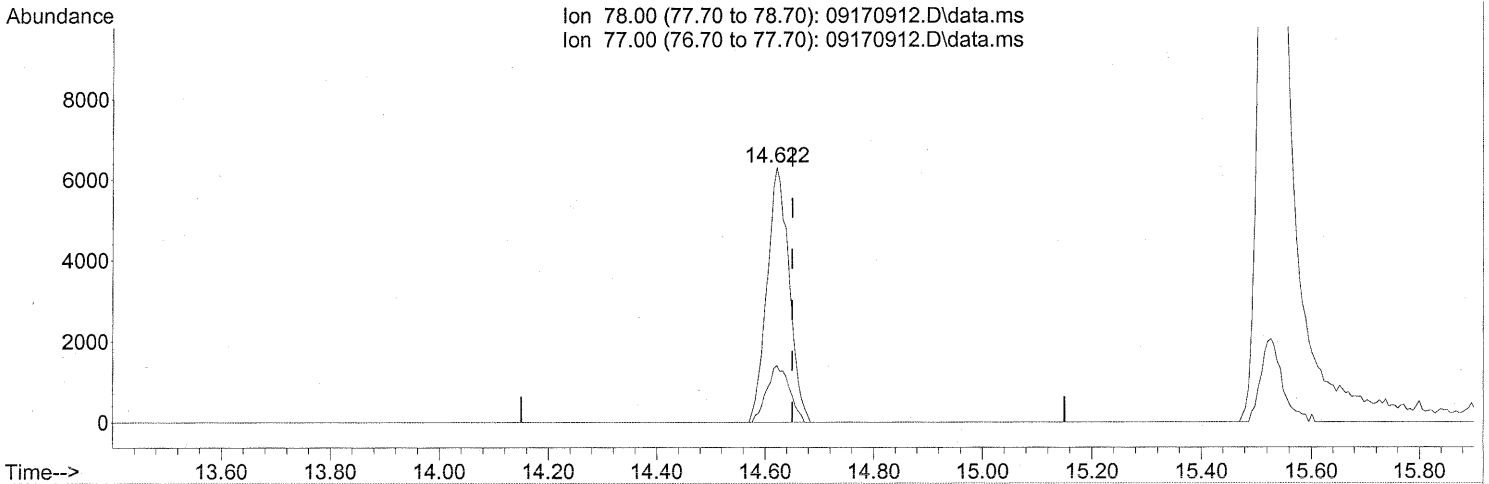
response 12906

Ion	Exp%	Act%
62.00	100	100
64.00	31.80	33.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
Data File : 09170912.D
Acq On : 17 Sep 2009 14:51
Operator : LH
Sample : P0903145-013Dup (1000mL)
Misc : Environmental H & E 102827
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



TIC: 09170912.D\data.ms

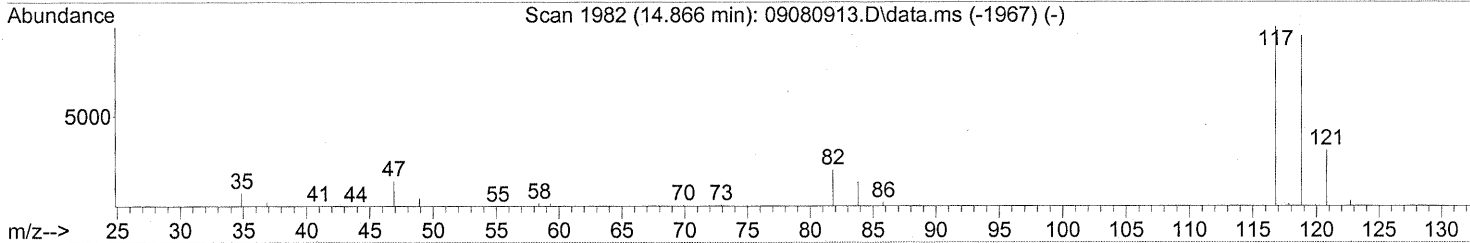
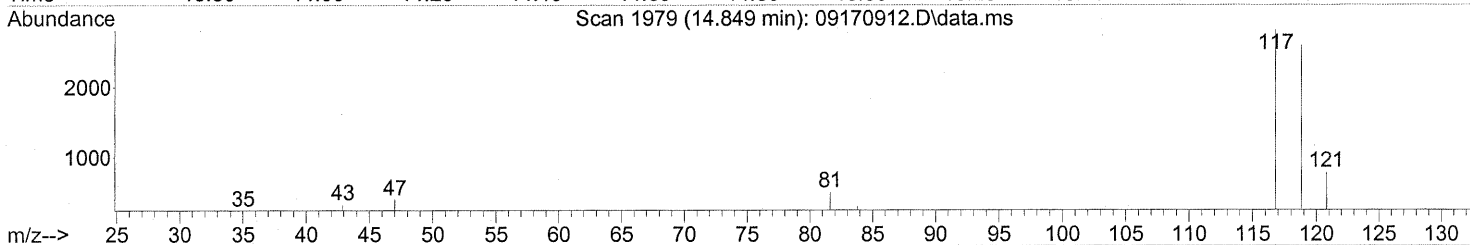
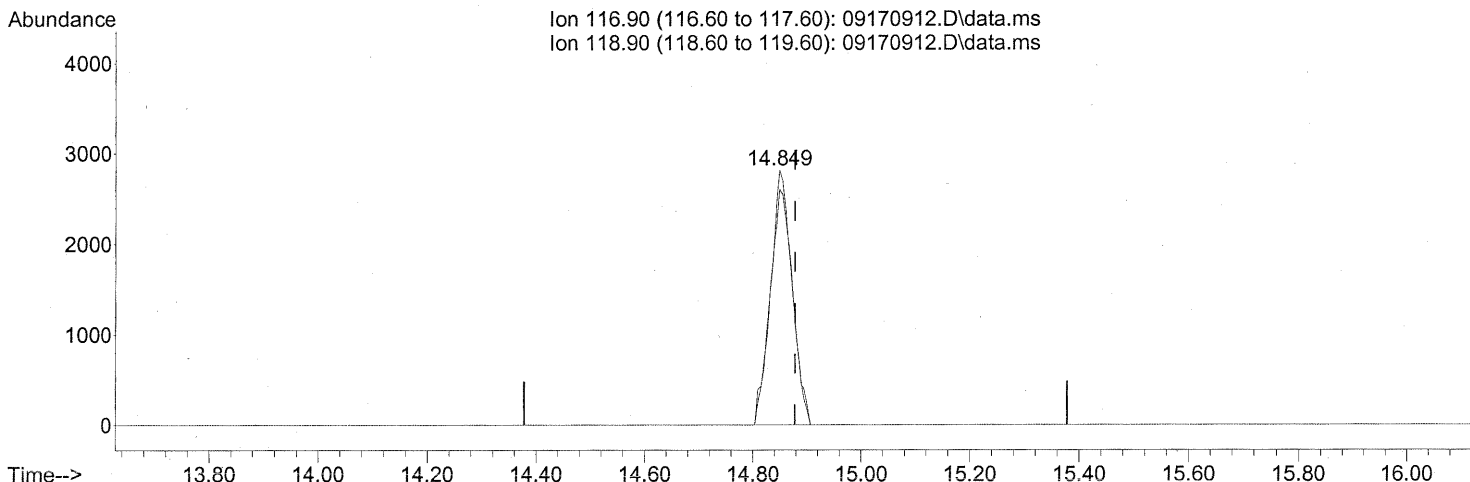
(41) Benzene (T)
14.622min (-0.028) 0.30ng
response 17901

Ion	Exp%	Act%
78.00	100	100
77.00	23.90	22.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

14.849min (-0.029) 0.44ng

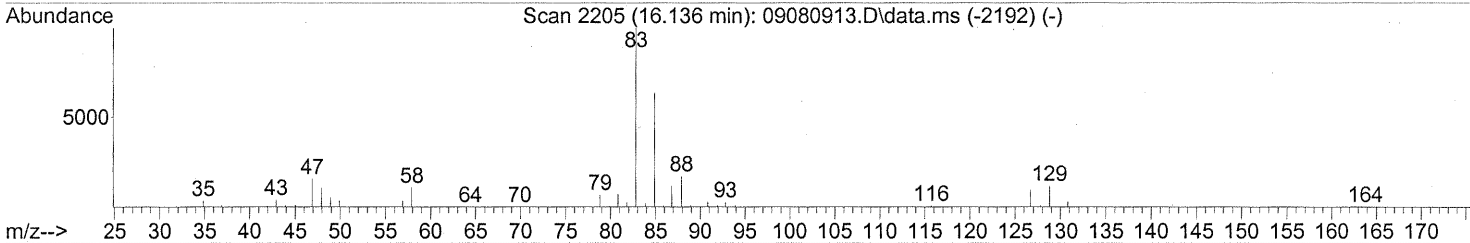
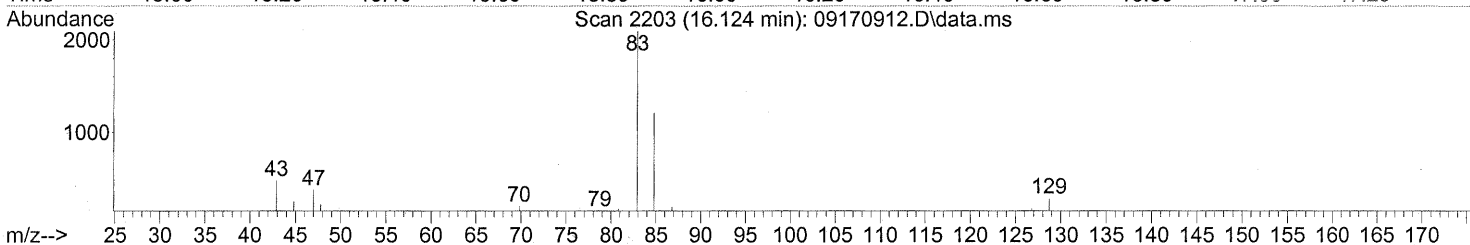
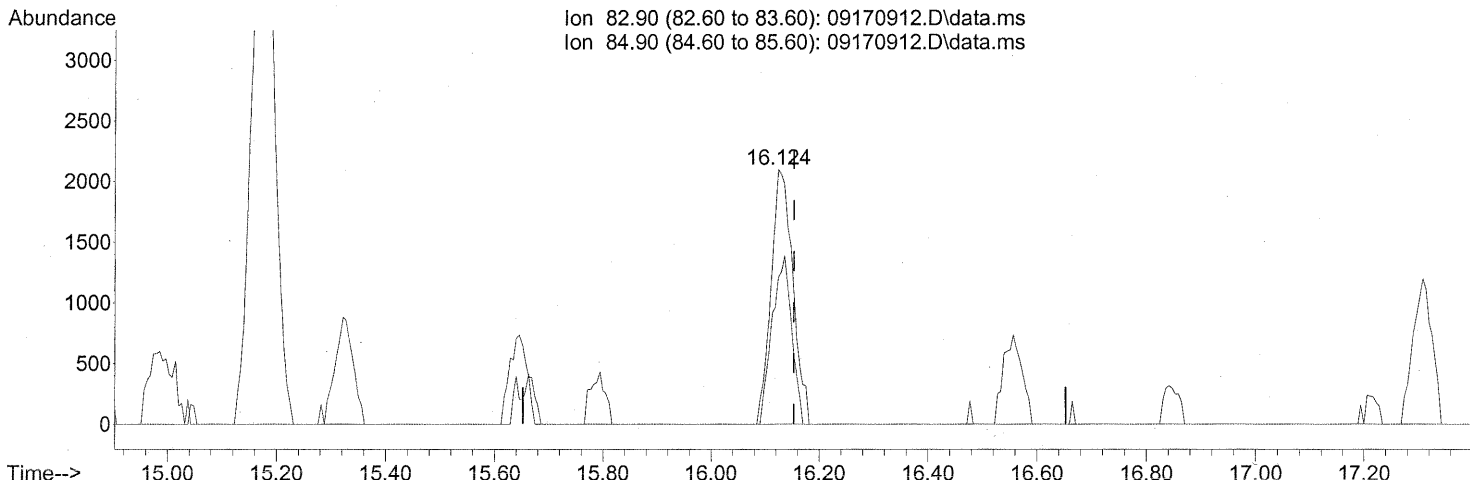
response 7761

Ion	Exp%	Act%
116.90	100	100
118.90	97.90	97.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.124min (-0.028) 0.32ng

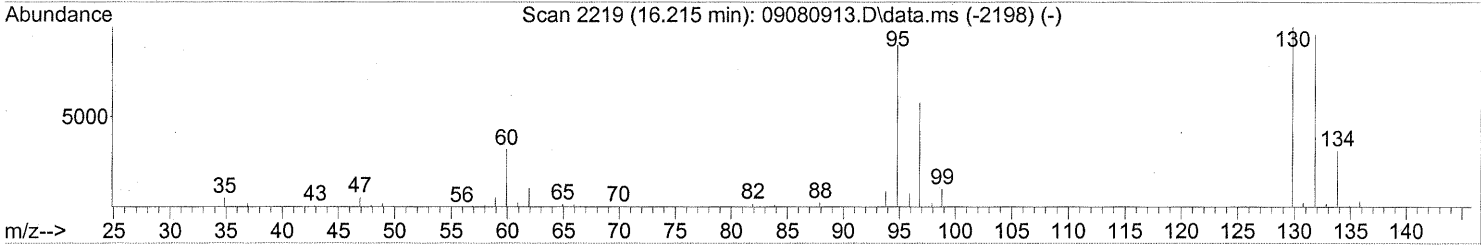
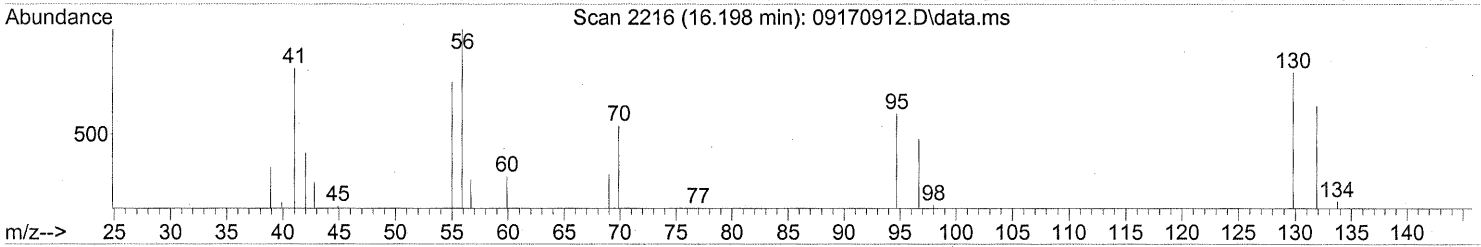
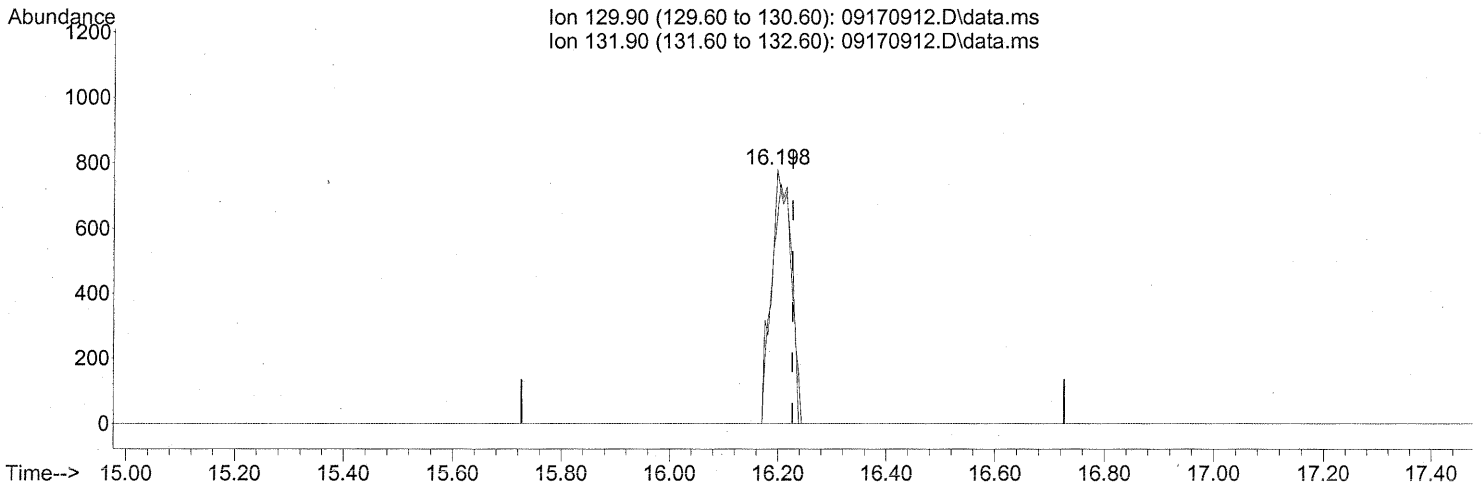
response 5879

Ion	Exp%	Act%
82.90	100	100
84.90	64.00	59.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

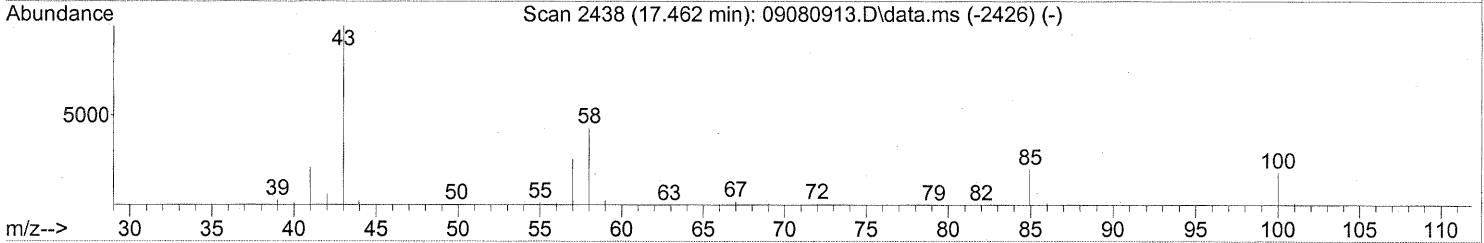
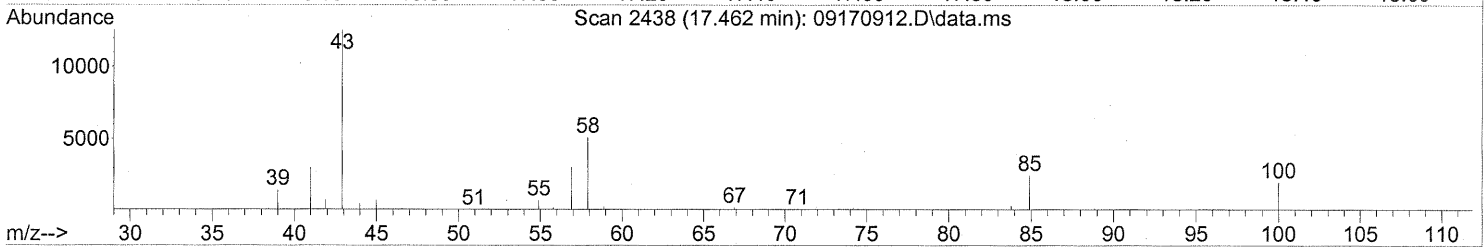
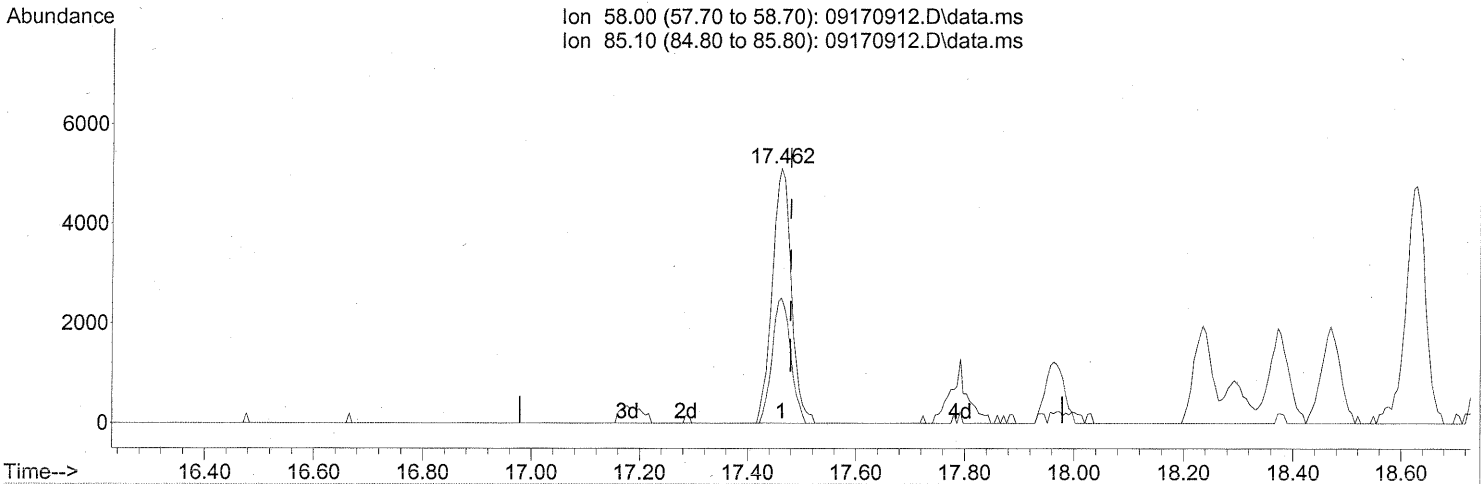
(47) Trichloroethene (T)
 16.198min (-0.028) 0.11ng
 response 1981

Ion	Exp%	Act%
129.90	100	100
131.90	95.80	95.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(53) 4-Methyl-2-pentanone (T)

17.462min (-0.017) 0.95ng

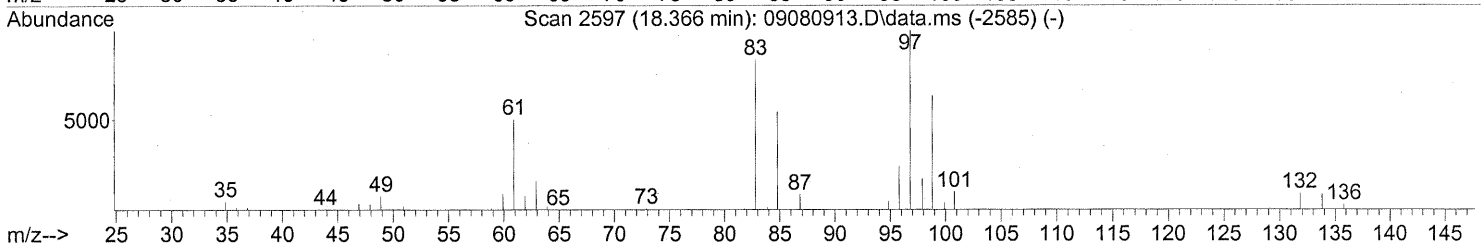
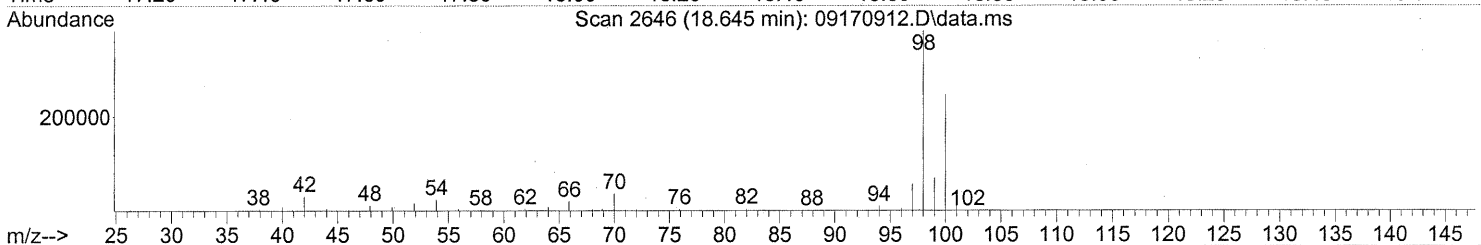
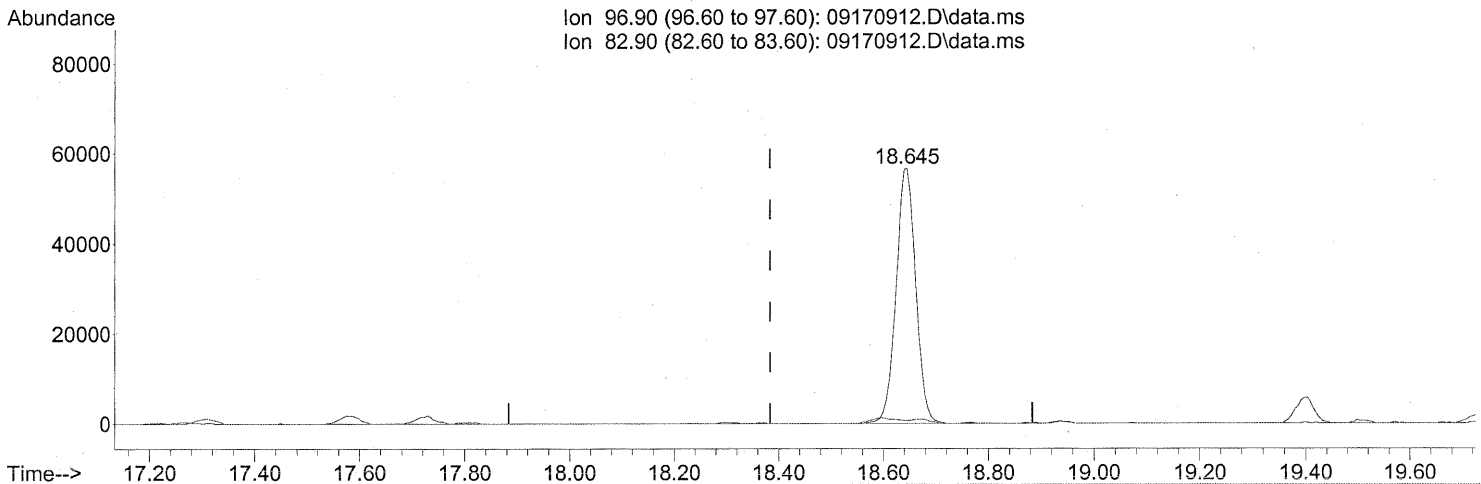
response 12563

Ion	Exp%	Act%
58.00	100	100
85.10	40.30	47.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(55) 1,1,2-Trichloroethane (T)

18.645min (+0.262) 9.98ng

response 148084

Ion	Exp%	Act%
96.90	100	100
82.90	89.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

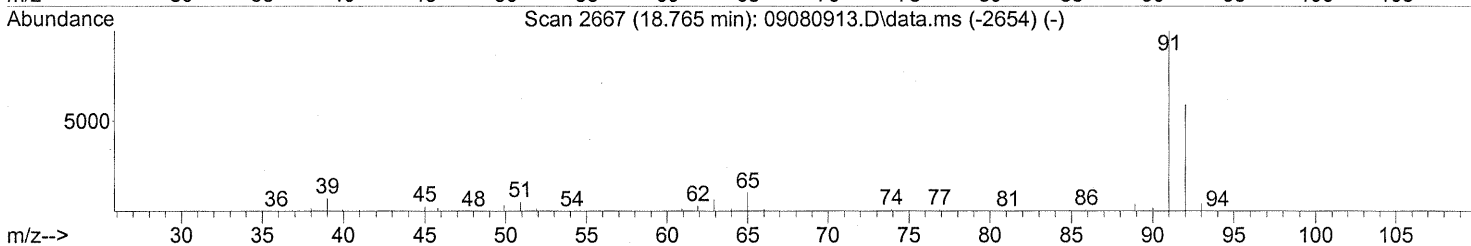
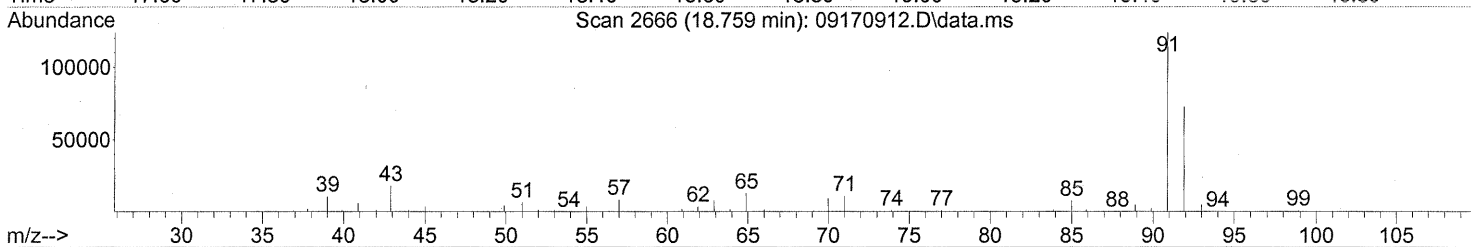
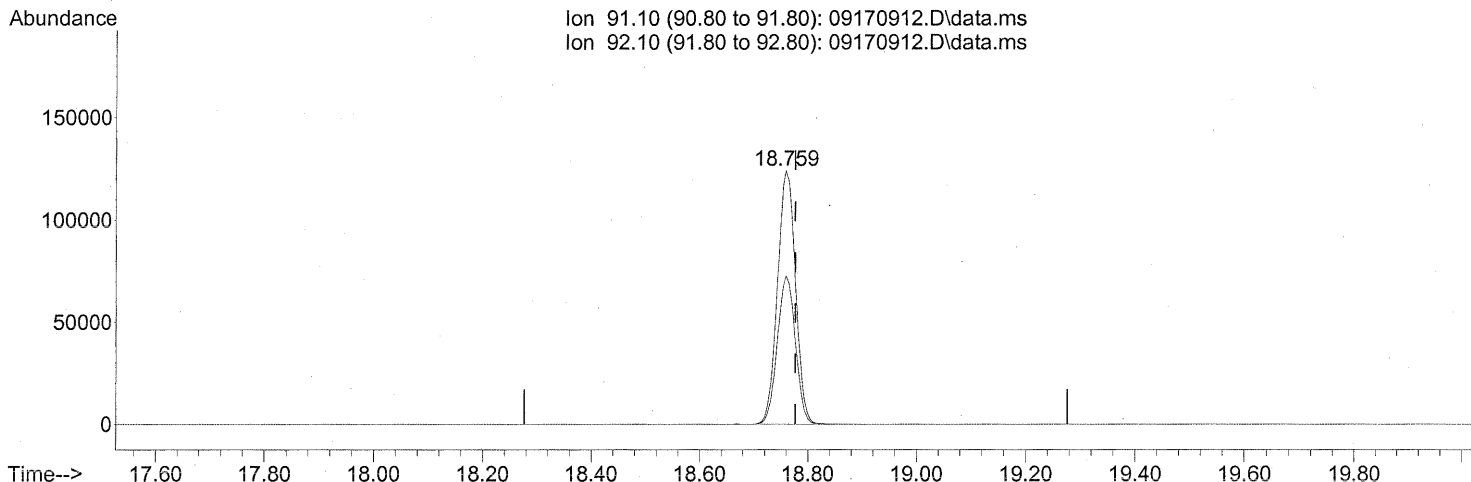
FP ut 9/21/09

com 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(58) Toluene (T)

18.759min (-0.017) 4.30ng

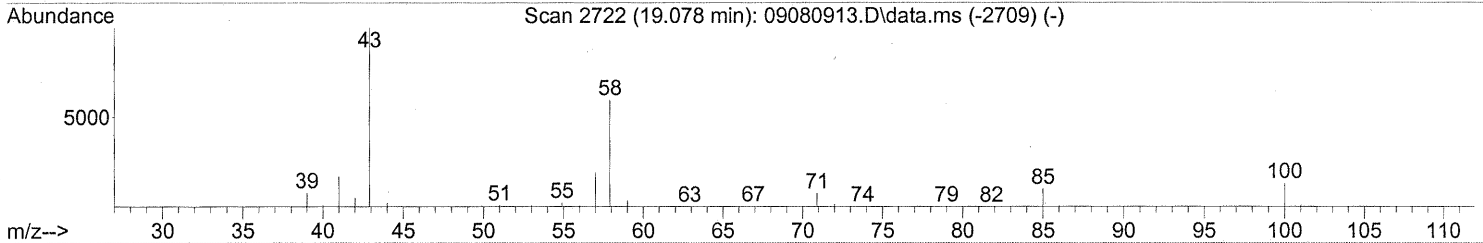
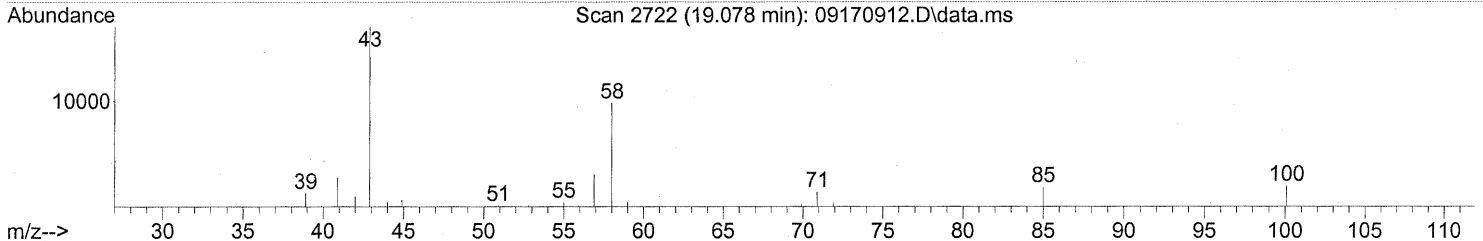
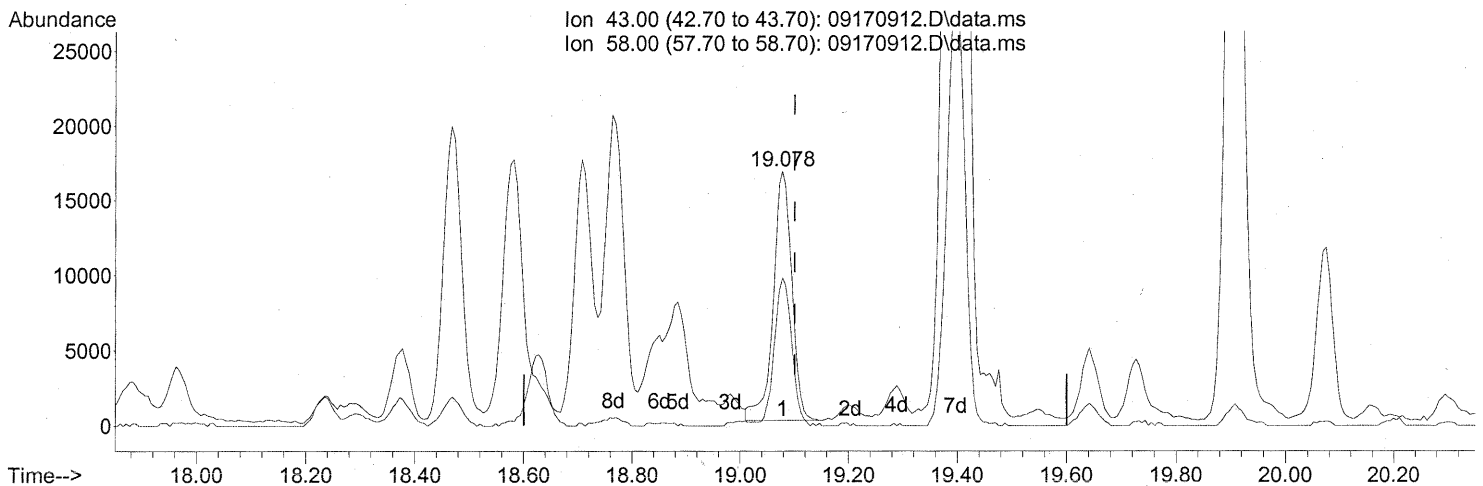
response 287861

Ion	Exp%	Act%
91.10	100	100
92.10	58.10	58.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(59) 2-Hexanone (T)

19.078min (-0.023) 1.23ng

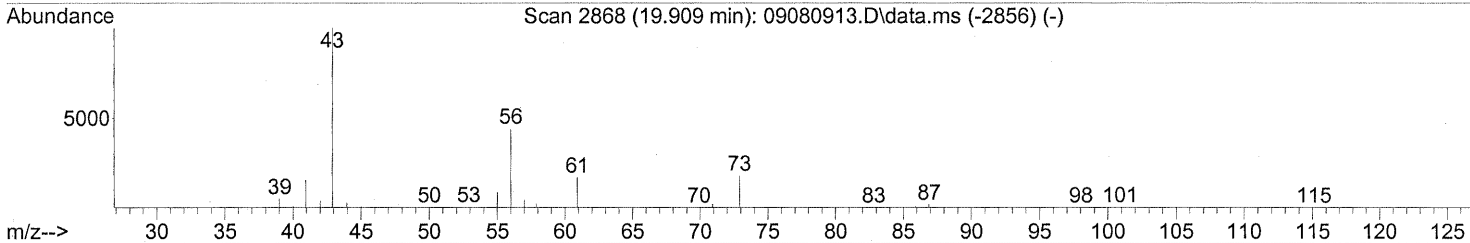
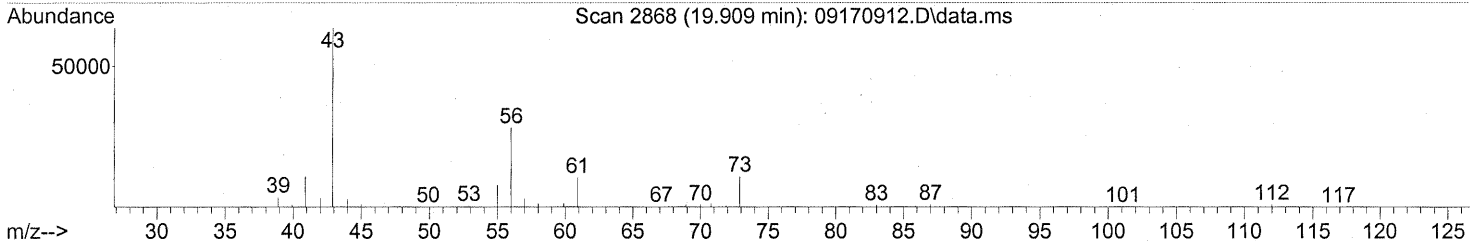
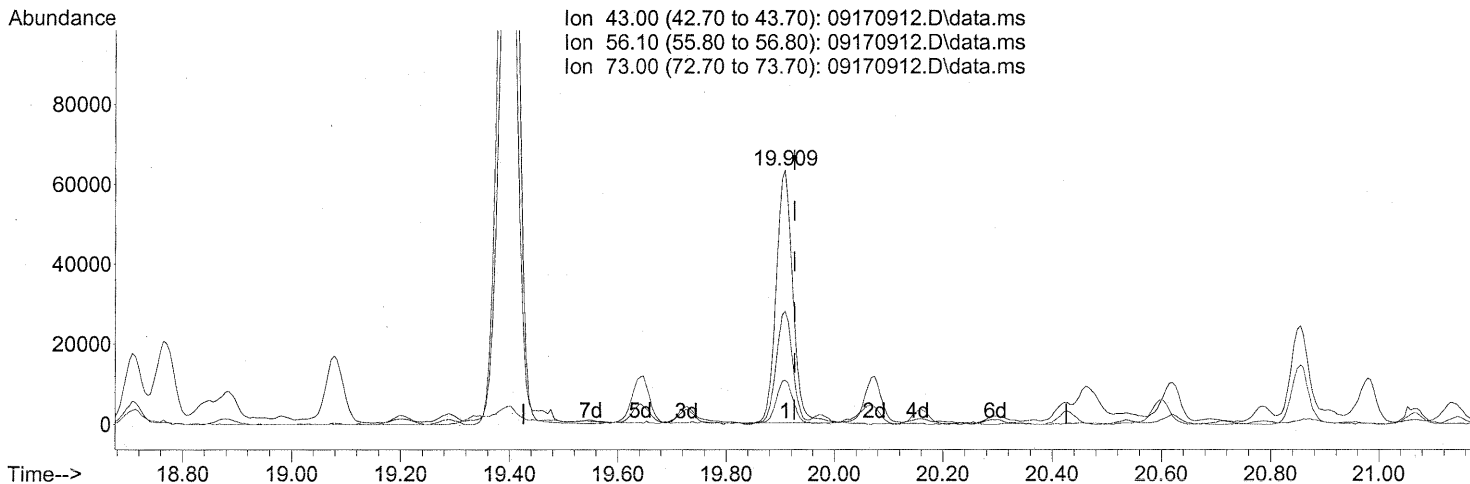
response 39638

Ion	Exp%	Act%
43.00	100	100
58.00	55.60	55.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

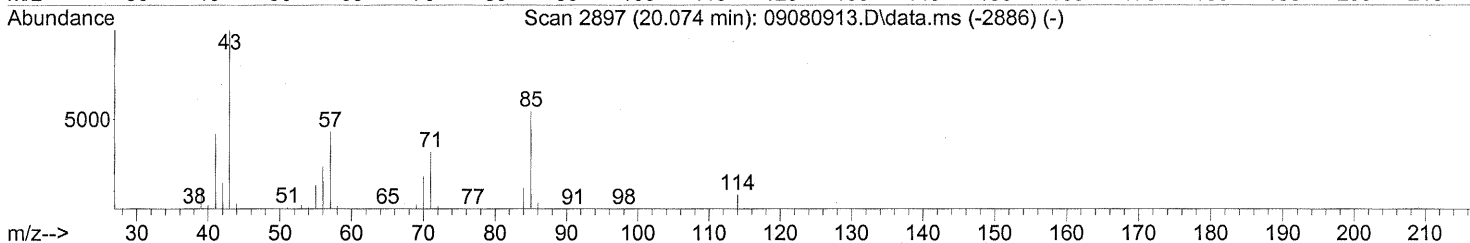
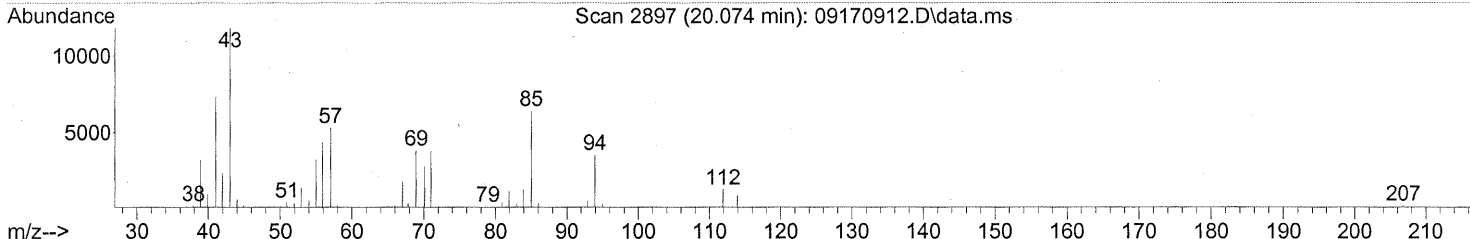
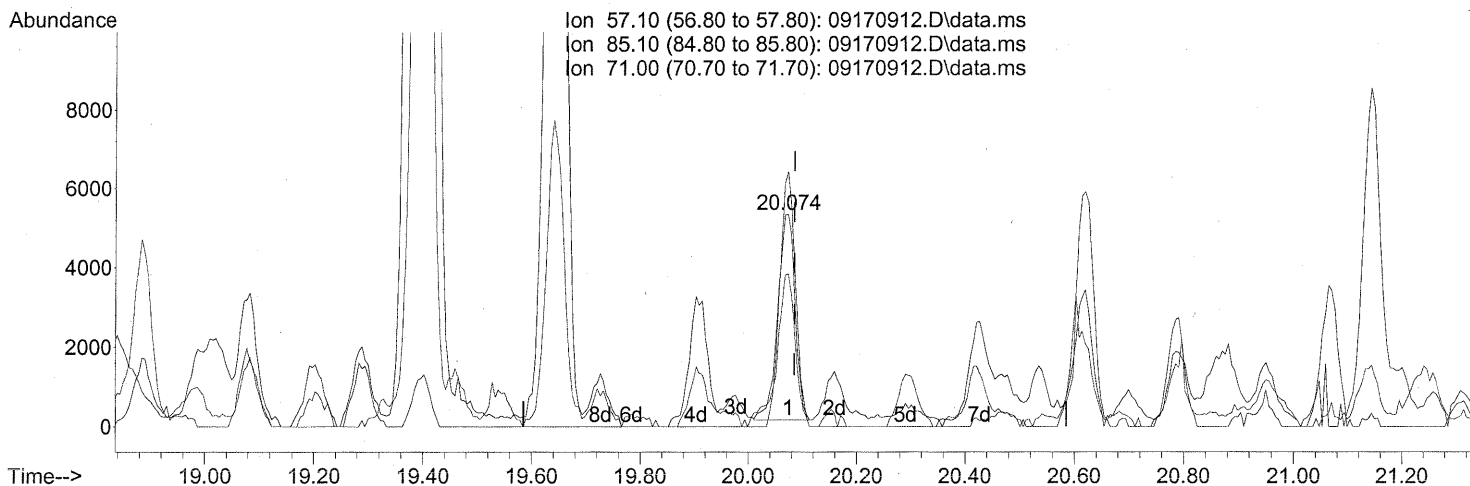
(62) n-Butyl Acetate (T)
 19.909min (-0.017) 3.64ng
 response 134600

Ion	Exp%	Act%
43.00	100	100
56.10	41.30	45.03
73.00	15.40	17.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



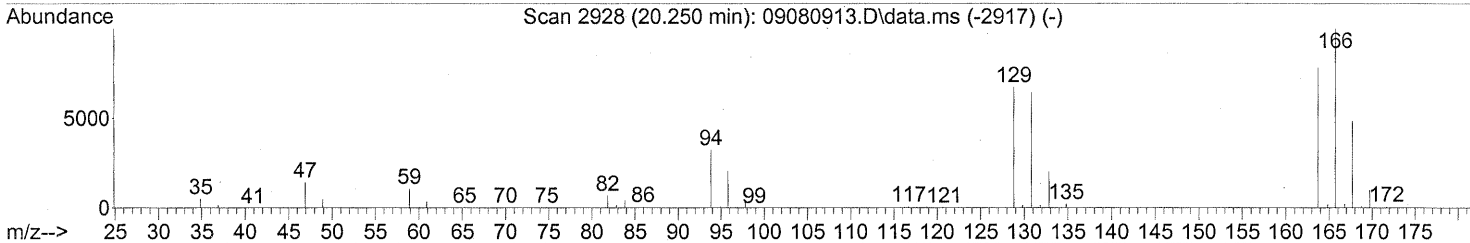
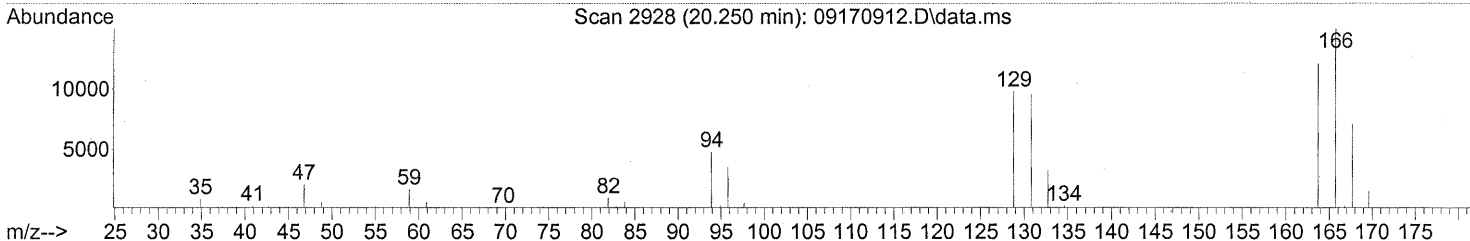
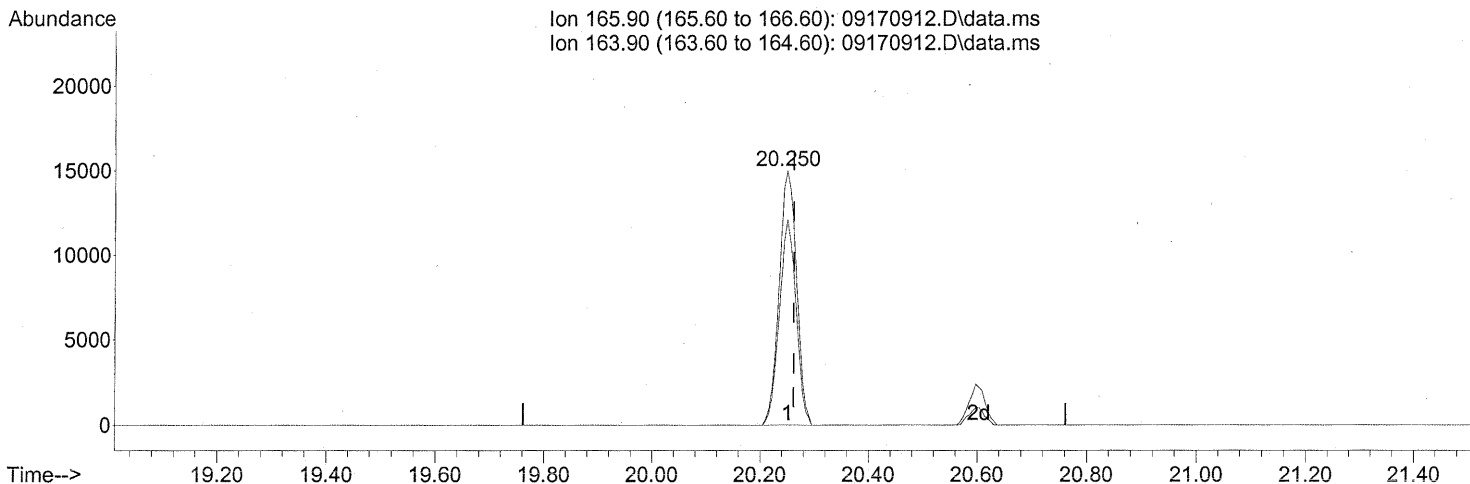
(63) n-Octane (T)
 20.074min (-0.011) 0.92ng
 response 11601

Ion	Exp%	Act%
57.10	100	100
85.10	109.50	113.27
71.00	69.40	80.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(64) Tetrachloroethene (T)

20.250min (-0.011) 1.61ng

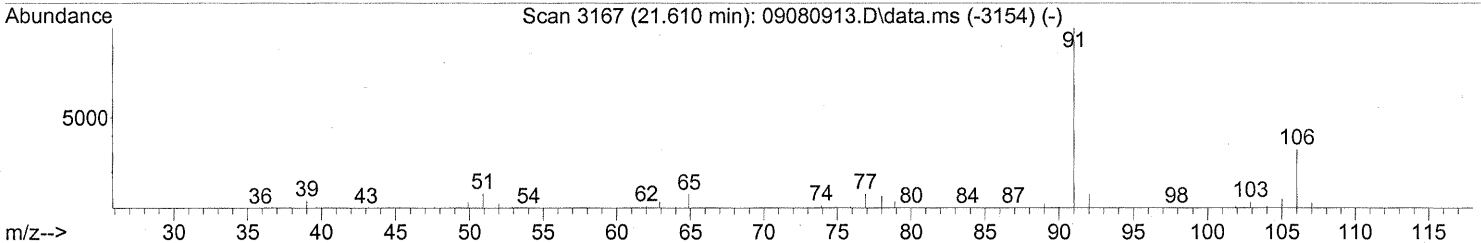
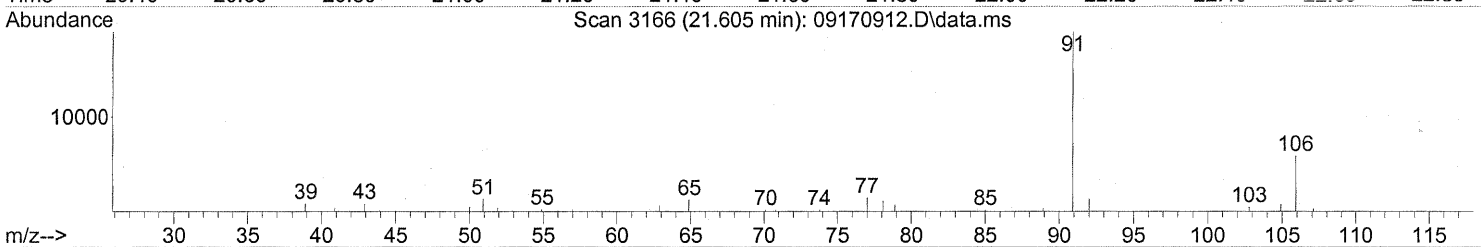
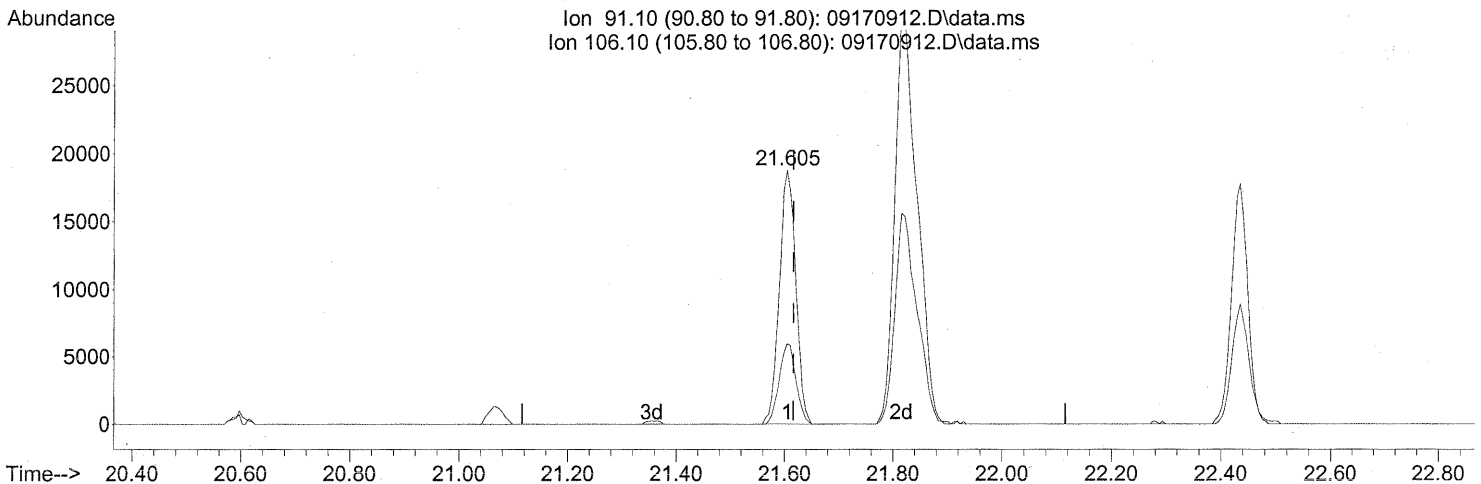
response 33372

Ion	Exp%	Act%
165.90	100	100
163.90	79.60	77.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(66) Ethylbenzene (T)

21.605min (-0.011) 0.54ng

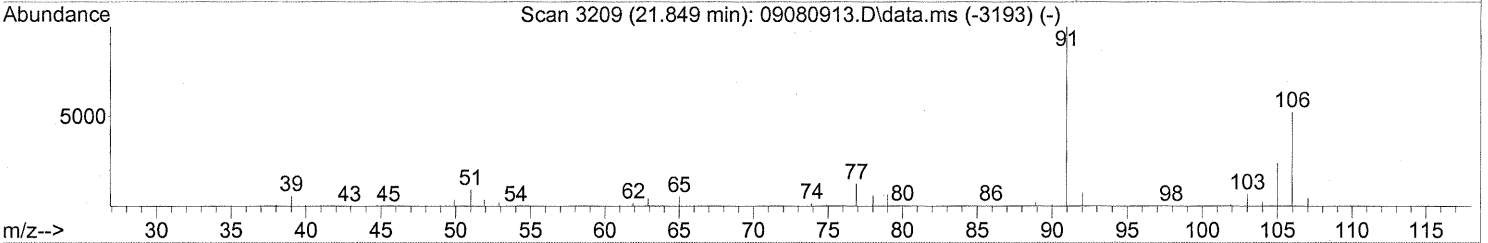
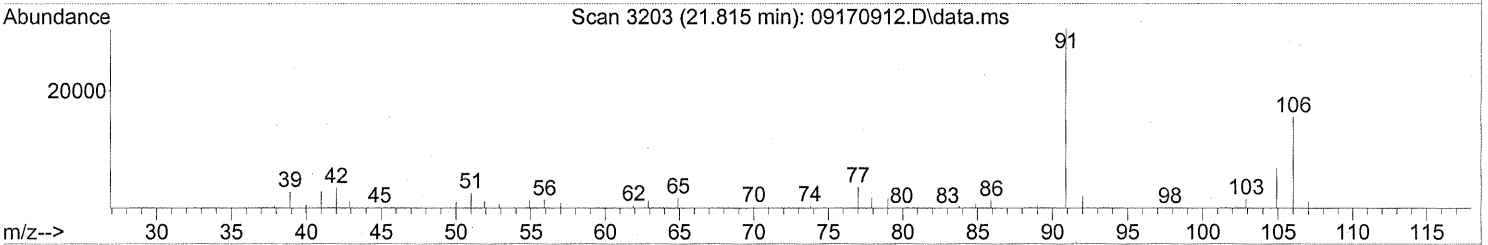
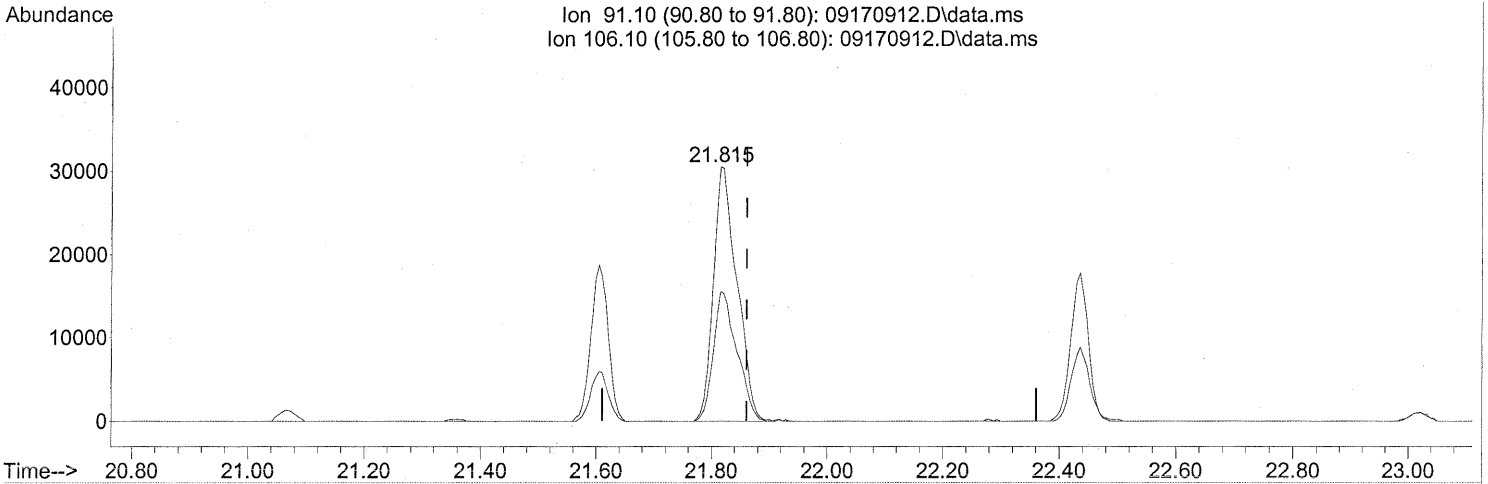
response 39390

Ion	Exp%	Act%
91.10	100	100
106.10	30.30	32.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

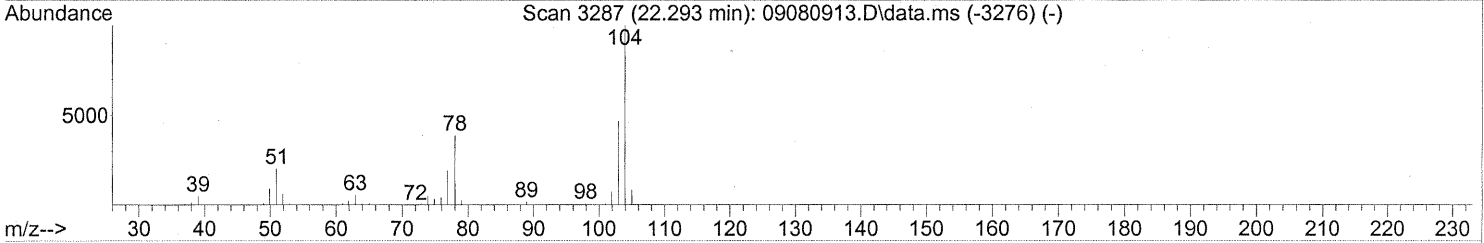
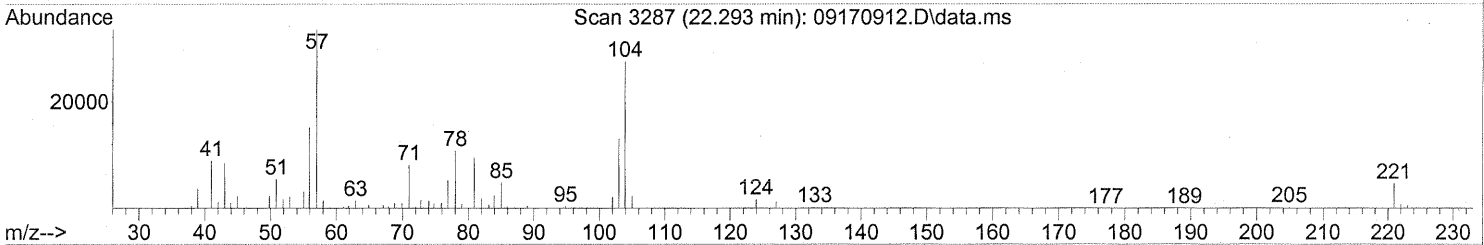
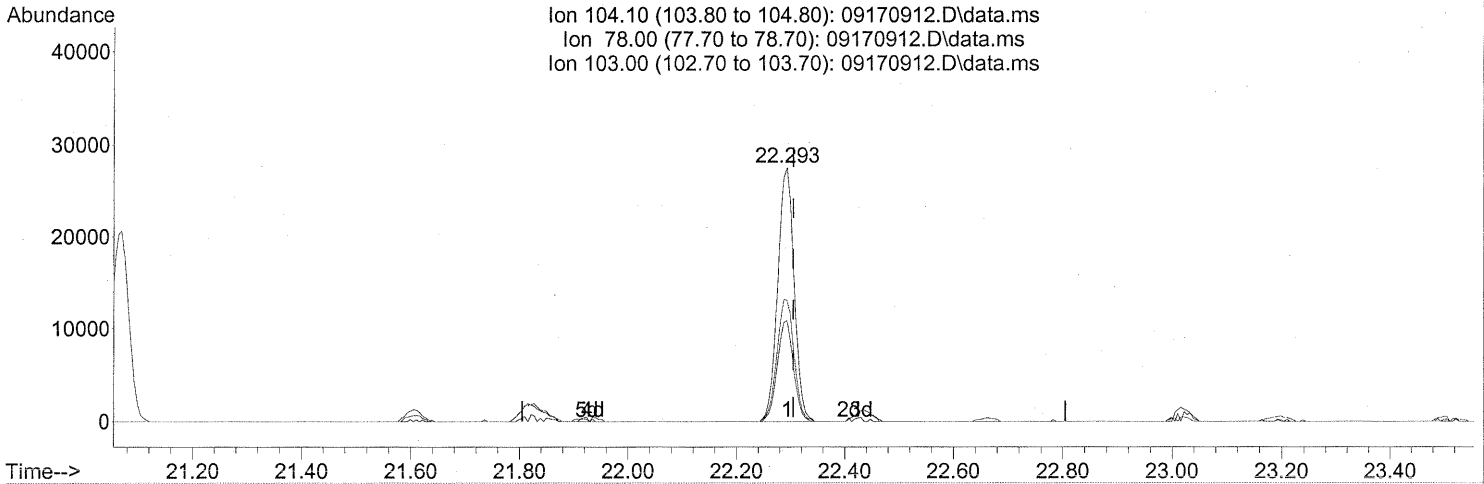
(67) m- & p-Xylenes (T)
 21.815min (-0.046) 1.51ng
 response 86688

Ion	Exp%	Act%
91.10	100	100
106.10	48.50	51.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

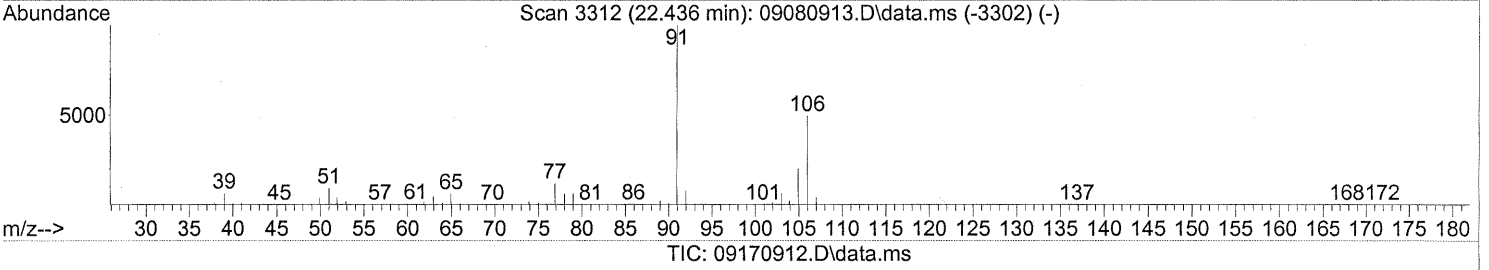
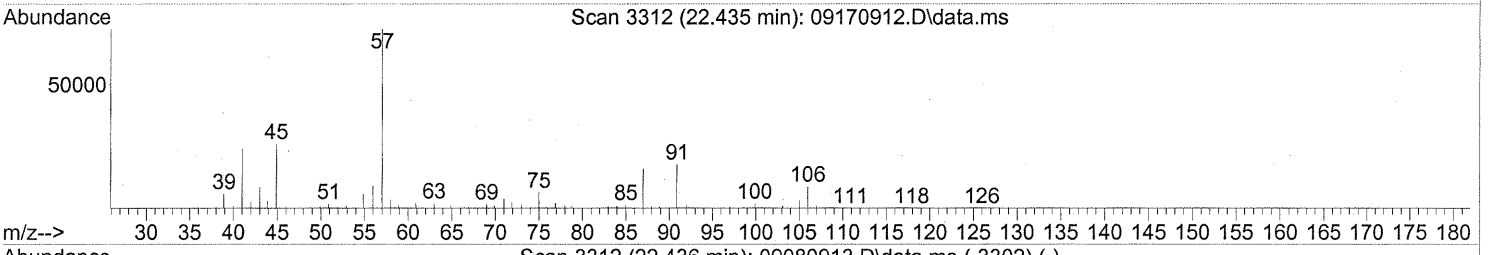
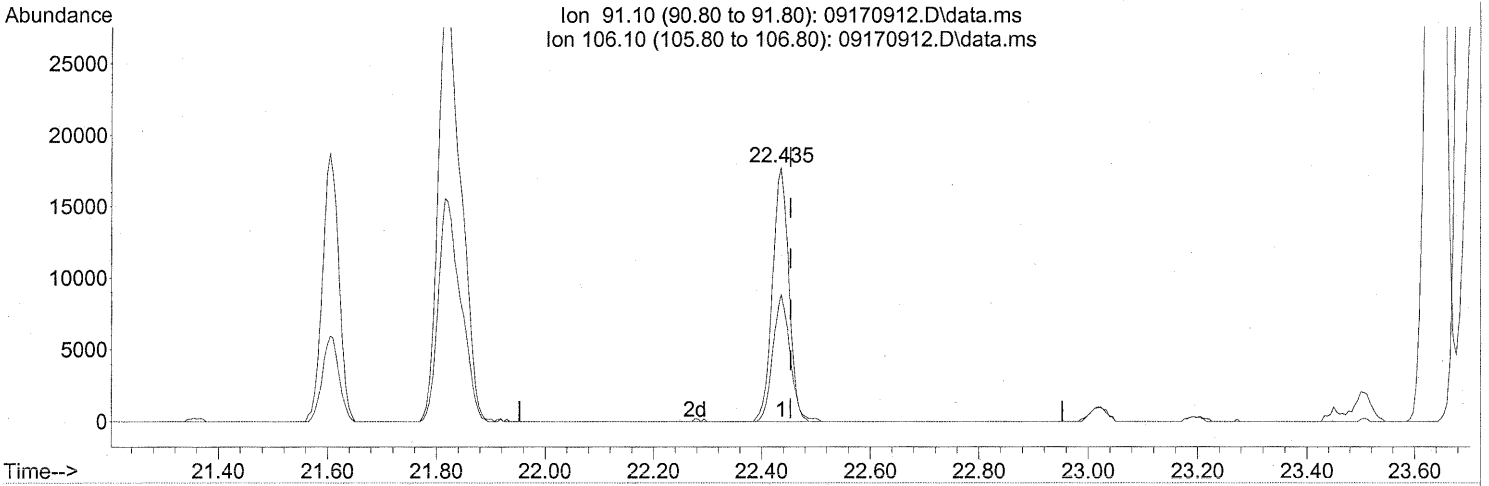
(69) Styrene (T)
 22.293min (-0.011) 1.23ng
 response 57833

Ion	Exp%	Act%
104.10	100	100
78.00	43.50	39.21
103.00	47.80	50.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.435min (-0.017) 0.63ng

response 37009

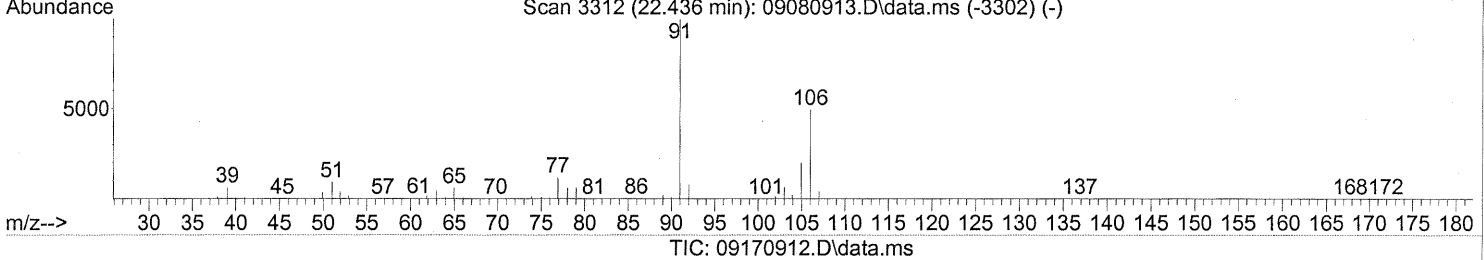
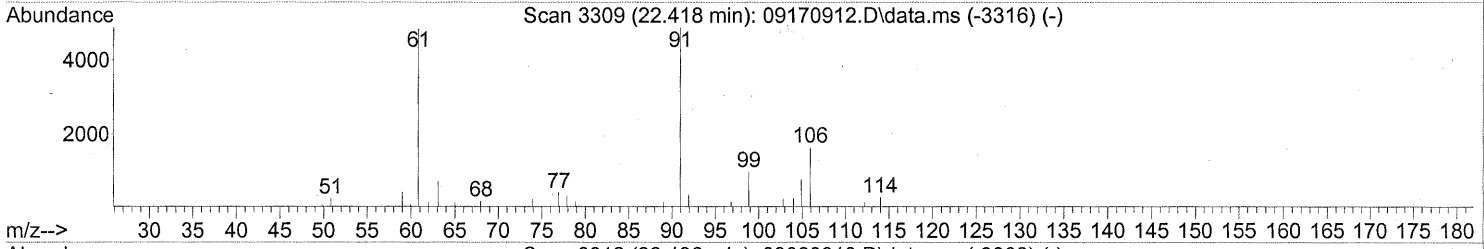
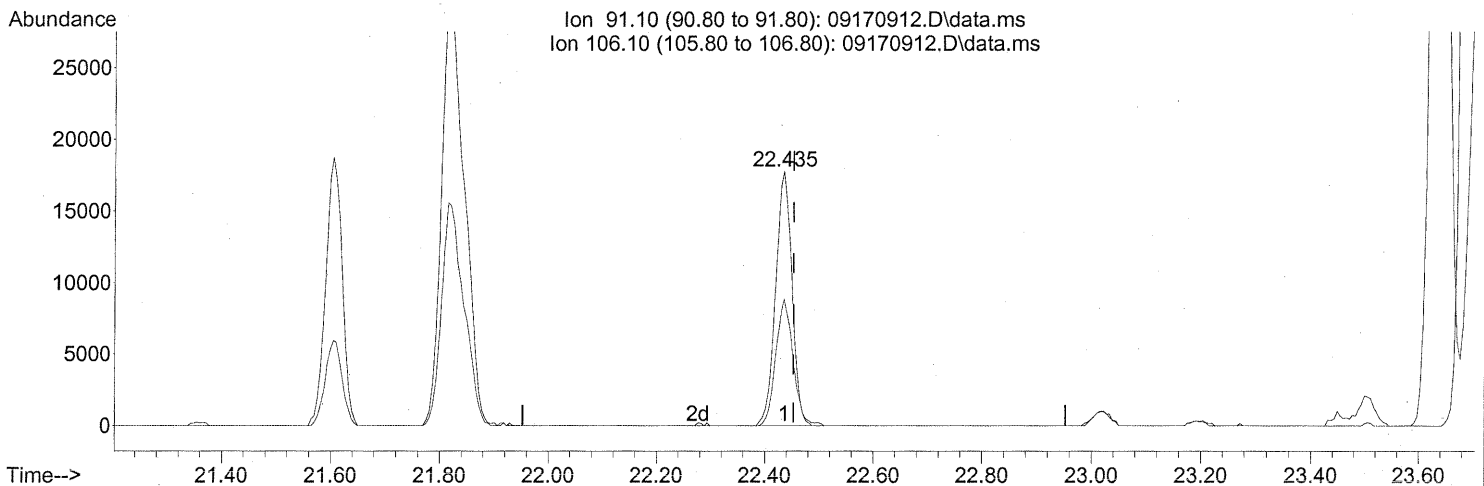
BEFORE SUBTRACTION

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	52.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(70) o-Xylene (T)
 22.435min (-0.017) 0.63ng
 response 37009

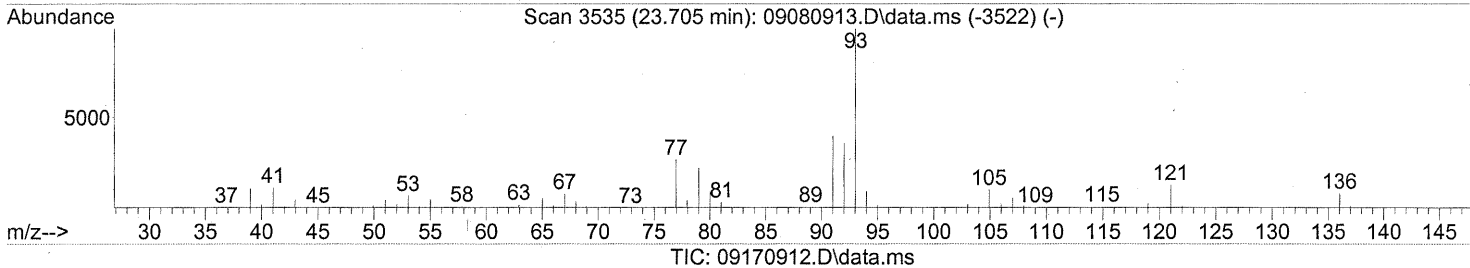
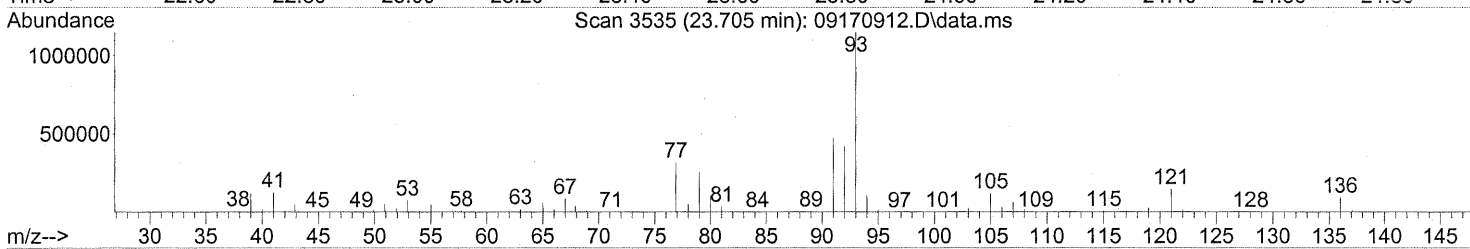
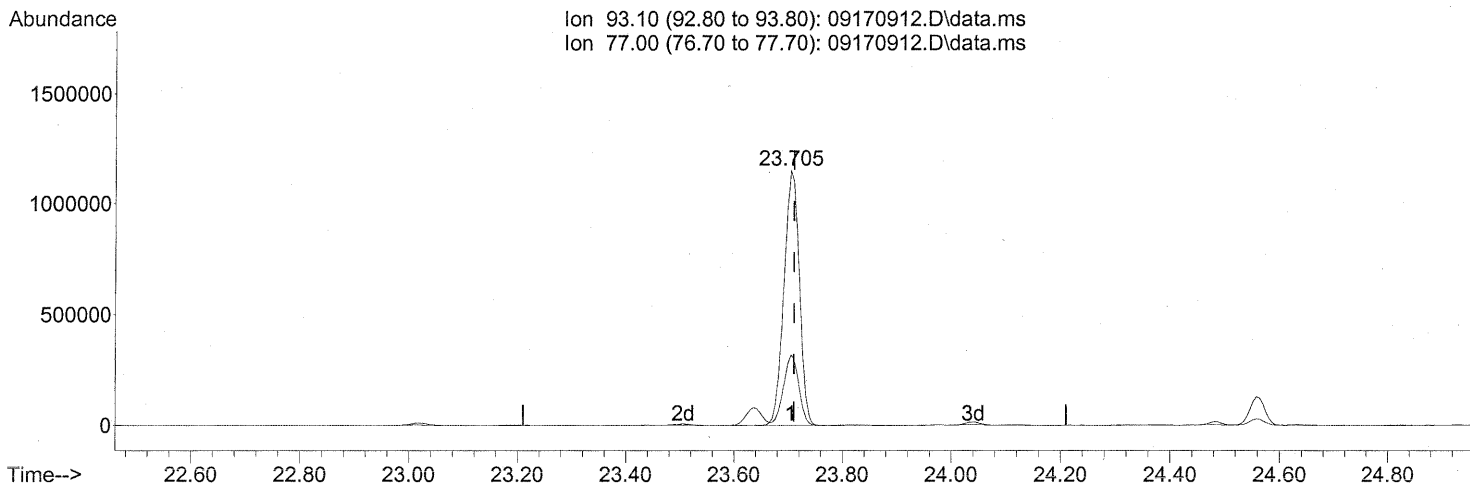
AFTER SUBTRACTION

Ion	Exp%	Act%
91.10	100	100
106.10	45.80	52.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



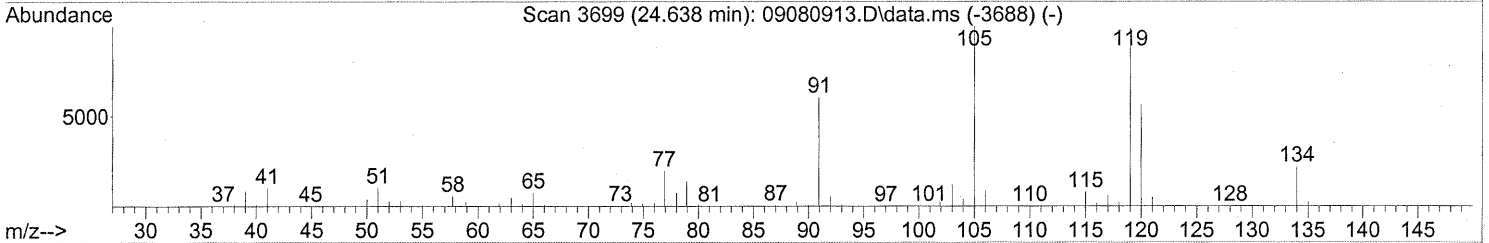
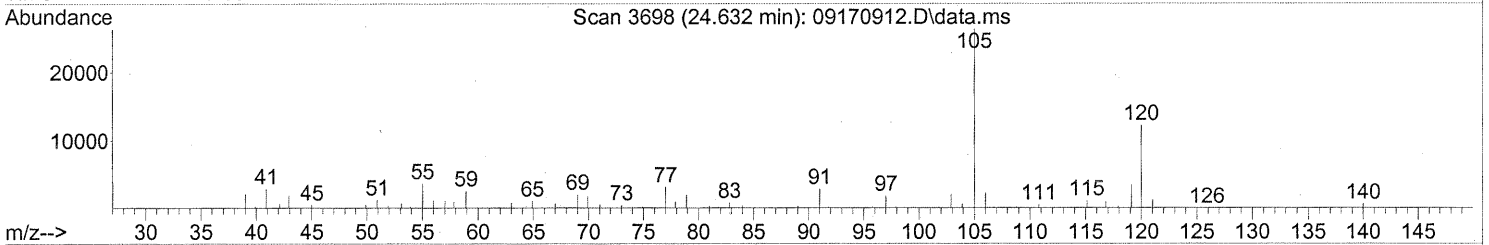
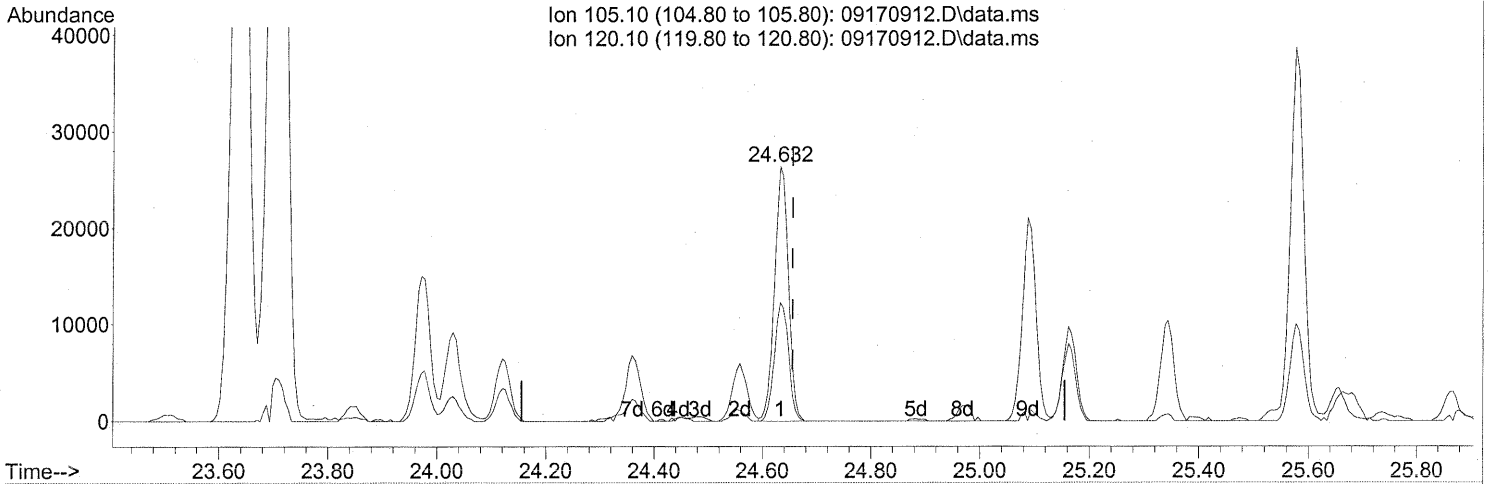
(75) alpha-Pinene (T)
 23.705min (-0.006) 60.22ng
 response 2274377

Ion	Exp%	Act%
93.10	100	100
77.00	29.90	27.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(82) 1,2,4-Trimethylbenzene (T)

24.632min (-0.023) 0.70ng

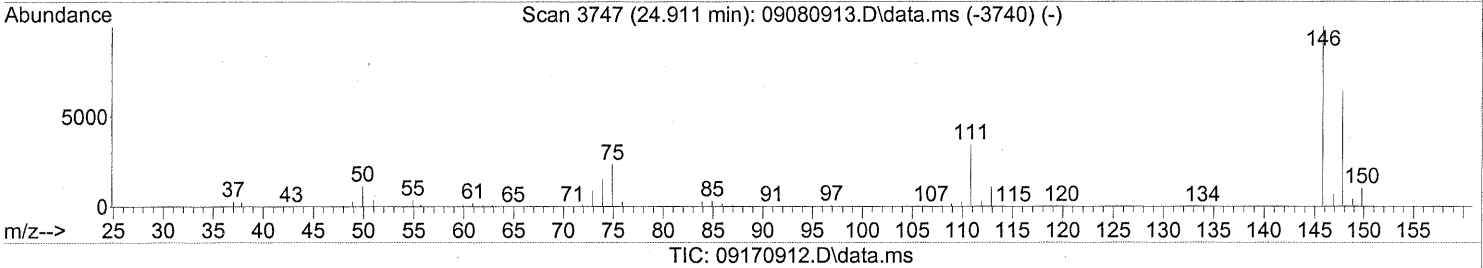
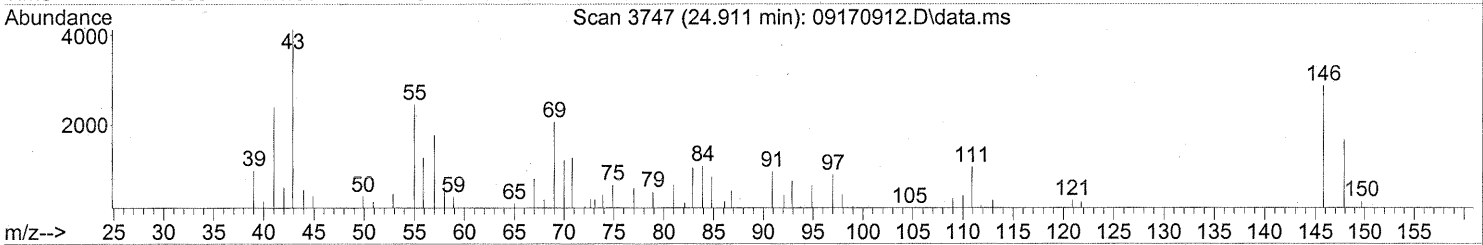
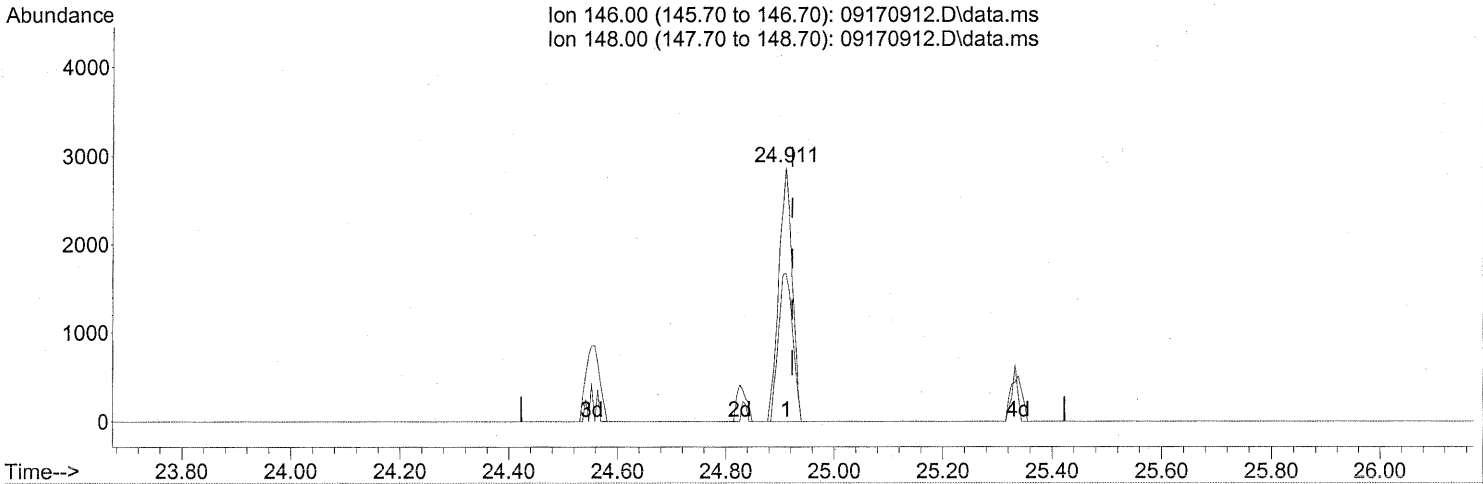
response 46788

Ion	Exp%	Act%
105.10	100	100
120.10	53.60	47.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

24.911min (-0.011) 0.12ng

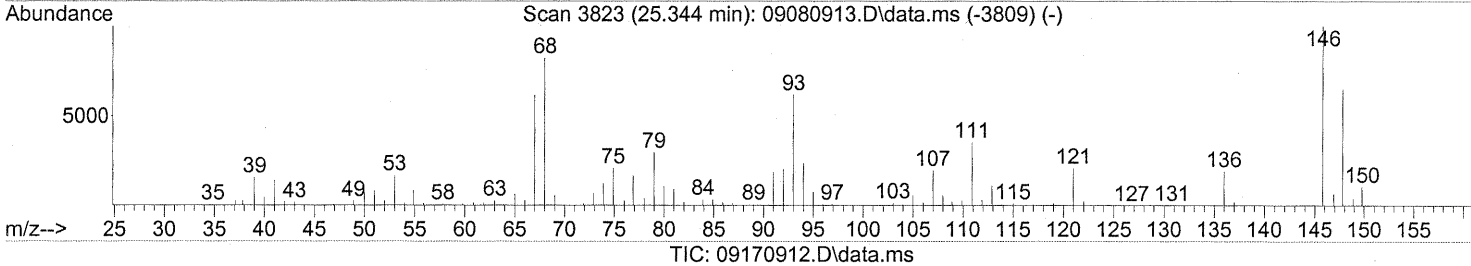
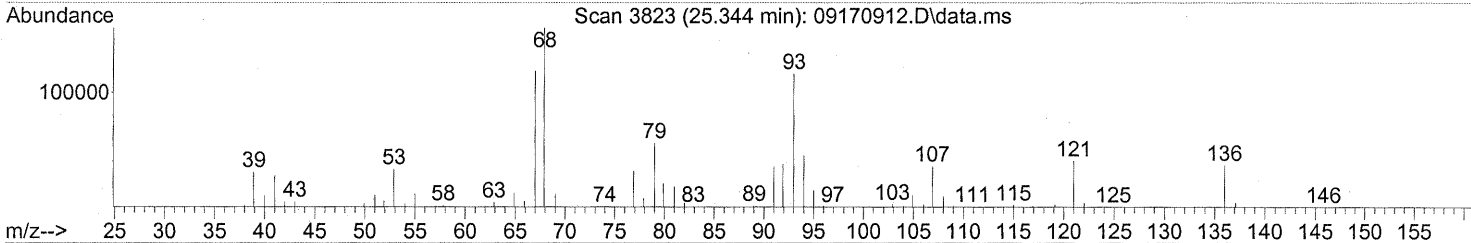
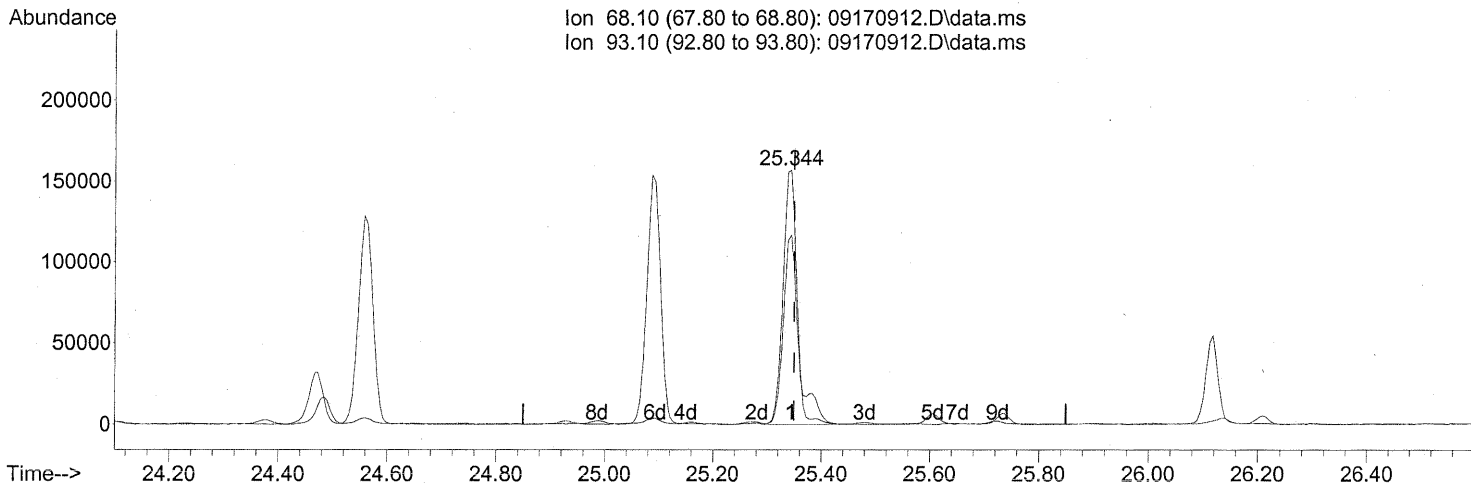
response 4959

Ion	Exp%	Act%
146.00	100	100
148.00	63.90	62.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 08:00:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



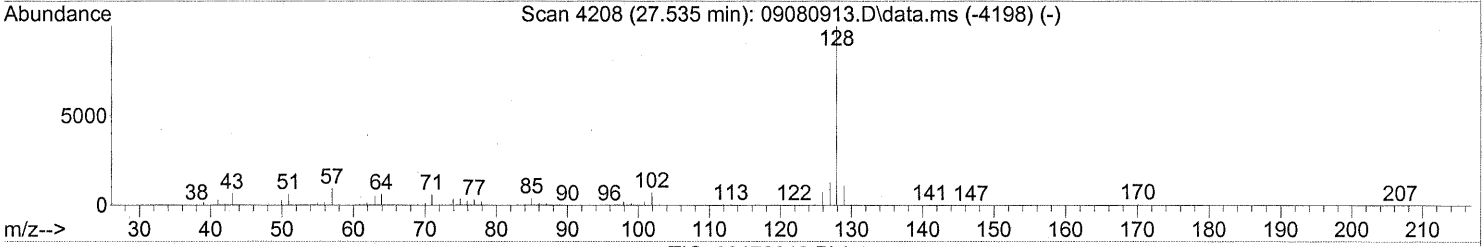
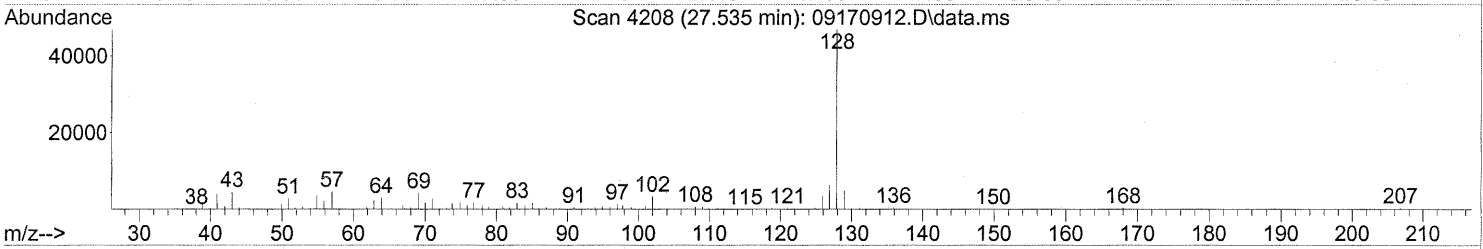
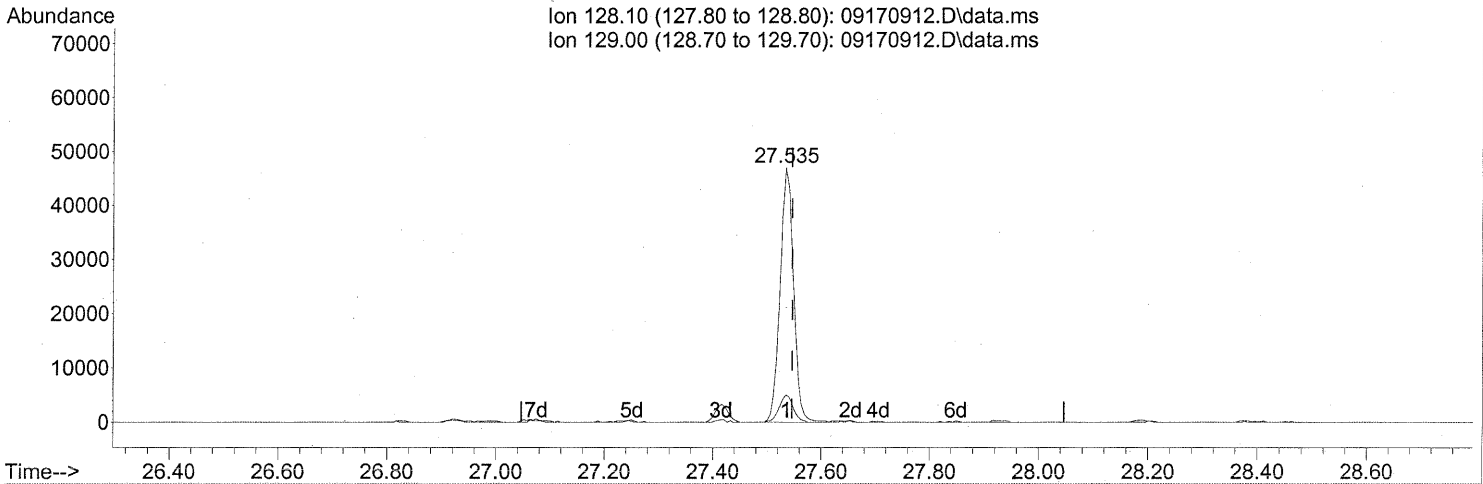
(91) d-Limonene (T)
 25.344min (-0.006) 11.58ng
 response 276955

Ion	Exp%	Act%
68.10	100	100
93.10	66.40	84.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170912.D
 Acq On : 17 Sep 2009 14:51
 Operator : LH
 Sample : P0903145-013Dup (1000mL)
 Misc : Environmental H & E 102827
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 18 09:44:30 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170912.D\data.ms

(95) Naphthalene (T)

27.535min (-0.011) 0.83ng

response 80610

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.14
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS16\METHODS\
 Method File : R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:24:30 2009
 Response Via : Initial Calibration

Calibration Files

0.1 =09080908.D 0.2 =09080909.D 0.5 =09080910.D 1.0 =09080911.D 5.0 =09080912.D 25 =09080913.D
 50 =09080914.D 100 =09080915.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR										
Bromochloromethane...	0.886	0.803	1.135	1.020	1.308	1.065	1.054	0.873	1.018	15.99
2) T Propene	1.885	1.760	2.369	2.075	2.196	1.958	1.777	1.549	1.946	13.49
3) T Dichlorodifluo...	1.537	1.315	1.932	1.672	1.795	1.749	1.568	1.184	1.594	15.63
4) T Chloromethane	1.112	1.042	1.417	1.248	1.298	1.225	1.073	0.924	1.167	13.59
5) T 1,2-Dichloro-1...	1.370	1.292	1.825	1.599	1.760	1.638	1.515	1.239	1.530	14.04
6) T Vinyl Chloride	1.030	0.879	1.290	1.104	1.175	1.184	1.009	0.853	1.065	14.30
7) T 1,3-Butadiene	0.901	0.858	1.150	1.030	1.109	1.112	1.062	0.853	1.009	12.00
8) T Bromomethane	0.572	0.634	0.860	0.794	0.885	0.826	0.777	0.659	0.751	15.29
9) T Chloroethane	0.768	0.667	0.816	0.729	0.761	0.793	0.765	0.605	0.738	9.46
10) T Ethanol	1.754	1.617	2.139	1.945	2.023	1.981	1.908	1.565	1.867	10.82
11) T Acetonitrile	0.501	0.460	0.553	0.519	0.612	0.632	0.608	0.508	0.549	11.34
12) T Acrolein	0.869	0.721	0.780	0.709	0.783	0.764	0.737	0.585	0.744	10.89
13) T Acetone	1.604	1.462	2.079	1.937	2.023	1.945	1.839	1.532	1.803	13.14
14) T Trichlorofluor...	2.675	2.425	3.203	2.889	2.419	2.695	2.360	1.820	2.561	16.03
15) T 2-Propanol (Is...	1.503	1.416	1.526	1.526	1.526	1.527	1.477	1.201	1.442	8.66
16) T Acrylonitrile	0.921	0.864	1.178	1.091	1.154	1.119	1.076	0.897	1.037	11.96
17) T 1,1-Dichloroet...	2.804	2.431	3.224	2.851	2.885	2.859	2.773	1.348	2.647	21.43
18) T 2-Methyl-2-Pro...	1.324	1.032	1.255	1.135	1.165	1.140	1.107	0.913	1.134	11.14
19) T Methylene Chlo...	1.059	0.962	1.483	1.343	1.513	1.535	1.512	1.228	1.329	16.86
20) T 3-Chloro-1-pro...	0.743	0.686	0.965	0.872	0.963	1.012	0.967	0.899	0.888	13.15
21) T Trichlorotrifl...	3.652	3.316	4.656	4.080	4.310	4.160	3.978	3.309	3.932	12.11
22) T Carbon Disulfide	1.174	1.014	1.548	1.430	1.668	1.615	1.580	1.285	1.414	16.58
23) T trans-1,2-Dich...	1.591	1.440	2.054	1.846	2.016	1.930	1.895	1.542	1.789	12.99
24) T 1,1-Dichloroet...	2.661	2.407	3.176	2.771	3.023	3.158	3.031	2.636	2.858	9.79
25) T Methyl tert-Bu...	0.176	0.172	0.230	0.230	0.230	0.274	0.271	0.221	0.224	19.69
26) T Vinyl Acetate	0.660	0.624	0.792	0.718	0.770	0.790	0.763	0.597	0.714	10.88
27) T 2-Butanone (MEK)	1.143	1.069	1.599	1.428	1.554	1.505	1.466	1.186	1.369	14.94
28) T cis-1,2-Dichlo...	0.690	0.697	0.959	0.851	0.896	0.909	0.868	0.750	0.828	12.32
29) T Diisopropyl Ether	0.262	0.294	0.410	0.372	0.408	0.427	0.405	0.322	0.363	17.08
30) T Ethyl Acetate	1.476	1.355	1.651	1.416	1.477	1.518	1.381	1.216	1.436	8.91
31) T n-Hexane										

M 9/9/09

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Method Path : J:\MS16\METHODS\
 Method File : R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

		1.589	1.411	2.071	1.817	1.961	1.912	1.849	1.485	1.762	13.53
32) T	Chloroform	1.589	1.411	2.071	1.817	1.961	1.912	1.849	1.485	1.762	13.53
33) S	1,2-Dichloroet...	1.379	1.394	1.360	1.375	1.383	1.394	1.382	1.355	1.378	1.05
34) T	Tetrahydrofura...	0.571	0.560	0.708	0.636	0.745	0.765	0.727	0.576	0.661	12.88
35) T	Ethyl tert-But...	1.087	1.113	1.382	1.266	1.355	1.393	1.333	1.157	1.261	9.89
36) T	1,2-Dichloroet...	1.015	0.938	1.413	1.263	1.388	1.354	1.303	1.047	1.215	15.33
37) IR	1,4-Difluorobenzen...	-----ISTD-----									
38) T	1,1,1-Trichlor...	0.274	0.257	0.363	0.323	0.347	0.341	0.330	0.277	0.314	12.51
39) T	Isopropyl Acetate	0.129	0.116	0.162	0.142	0.150	0.149	0.142	0.117	0.138	11.60
40) T	1-Butanol	0.222	0.194	0.245	0.230	0.242	0.248	0.236	0.188	0.226	10.32
41) T	Benzene	0.911	0.765	1.031	0.913	0.952	0.929	0.891	0.741	0.892	10.74
42) T	Carbon Tetrach...	0.213	0.195	0.299	0.277	0.304	0.306	0.299	0.252	0.268	16.25
43) T	Cyclohexane	0.300	0.266	0.363	0.332	0.355	0.356	0.342	0.289	0.325	11.07
44) T	tert-Amyl Meth...	0.579	0.511	0.721	0.642	0.672	0.670	0.642	0.544	0.623	11.50
45) T	1,2-Dichloropr...	0.176	0.163	0.239	0.220	0.237	0.228	0.220	0.180	0.208	14.45
46) T	Bromodichlorom...	0.230	0.224	0.310	0.291	0.314	0.303	0.295	0.241	0.276	13.64
47) T	Trichloroethene	0.271	0.227	0.306	0.271	0.289	0.280	0.272	0.230	0.268	10.24
48) T	1,4-Dioxane	0.166	0.148	0.217	0.206	0.211	0.206	0.202	0.165	0.190	13.79
49) T	2,2,4-Trimethy...	0.862	0.765	1.059	0.940	0.977	0.953	0.897	0.734	0.898	12.14
50) T	Methyl Methacr...	0.087	0.079	0.117	0.107	0.114	0.114	0.110	0.092	0.102	14.19
51) T	n-Heptane	0.201	0.194	0.263	0.239	0.253	0.246	0.233	0.191	0.228	12.41
52) T	cis-1,3-Dichlo...	0.291	0.274	0.392	0.361	0.393	0.389	0.378	0.311	0.348	14.11
53) T	4-Methyl-2-pen...	0.182	0.163	0.232	0.204	0.222	0.213	0.205	0.168	0.199	12.71
54) T	trans-1,3-Dich...	0.248	0.224	0.355	0.320	0.362	0.356	0.346	0.285	0.312	17.12
55) T	1,1,2-Trichlor...	0.218	0.182	0.263	0.236	0.248	0.232	0.228	0.188	0.224	12.40
56) IR	Chlorobenzene-d5 (...)	-----ISTD-----									
57) S	Toluene-d8 (SS2)	2.520	2.522	2.517	2.506	2.469	2.497	2.495	2.494	2.502	0.71
58) T	Toluene	2.322	1.994	2.729	2.431	2.508	2.440	2.352	1.914	2.336	11.43
59) T	2-Hexanone	1.101	0.959	1.307	1.164	1.238	1.193	1.139	0.912	1.127	11.90
60) T	Dibromochlorom...	0.498	0.443	0.655	0.587	0.654	0.648	0.644	0.536	0.583	14.10
61) T	1,2-Dibromoethane	0.506	0.455	0.690	0.608	0.661	0.651	0.633	0.526	0.591	14.33
62) T	n-Butyl Acetate	1.224	1.029	1.457	1.308	1.394	1.392	1.364	1.147	1.289	11.28
63) T	n-Octane	0.385	0.381	0.513	0.457	0.488	0.468	0.453	0.363	0.439	12.55
64) T	Tetrachloroethene	0.652	0.587	0.822	0.741	0.783	0.776	0.764	0.643	0.721	11.50
65) T	Chlorobenzene	1.426	1.275	1.802	1.631	1.718	1.632	1.592	1.307	1.548	12.37
66) T	Ethylbenzene	2.414	2.119	2.963	2.684	2.836	2.718	2.635	2.153	2.565	12.02
67) T	m- & p-Xylenes	1.860	1.661	2.304	2.097	2.217	2.143	2.070	1.687	2.005	12.02
68) T	Bromoform	0.484	0.424	0.631	0.582	0.666	0.691	0.682	0.569	0.591	16.32
69) T	Styrene	1.561	1.313	1.851	1.688	1.824	1.787	1.735	1.417	1.647	12.00
70) T	o-Xylene	2.021	1.710	2.340	2.124	2.232	2.174	2.089	1.698	2.049	11.37

M 9/9/09

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Method Path : J:\MS16\METHODS\
 Method File : R16090809.M

Title	SOP	VOA-TO15	CASS	TO-15/GC-MS	0.977	0.752	0.994	13.65			
71) T	n-Nonane	1.004	0.847	1.163	1.057	1.108	1.048	0.977	0.752	0.994	13.65
72) T	1,1,2,2-Tetrac...	0.784	0.693	1.008	0.915	0.982	0.989	0.954	0.767	0.887	13.63
73) S	Bromofluoroben...	0.874	0.874	0.868	0.873	0.885	0.931	0.931	0.938	0.897	3.43
74) T	Cumene	2.840	2.332	3.189	2.903	3.050	2.959	2.845	2.315	2.804	11.33
75) T	alpha-Pinene	1.216	1.067	1.471	1.365	1.477	1.436	1.386	1.123	1.318	12.21
76) T	n-Propylbenzene	3.117	2.764	3.742	3.414	3.624	3.505	3.358	2.698	3.278	11.74
77) T	3-Ethyltoluene	2.640	2.217	3.029	2.756	2.882	2.778	2.706	2.190	2.650	11.30
78) T	4-Ethyltoluene	2.658	2.102	2.993	2.691	2.806	2.826	2.686	2.171	2.617	12.06
79) T	1,3,5-Trimethy...	2.227	1.829	2.469	2.247	2.337	2.301	2.218	1.796	2.178	11.00
80) T	alpha-Methylst...	1.121	0.983	1.412	1.297	1.391	1.397	1.349	1.103	1.257	13.06
81) T	2-Ethyltoluene	3.036	2.381	3.171	2.818	2.948	2.882	2.763	2.235	2.779	11.50
82) T	1,2,4-Trimethy...	2.654	1.946	2.606	2.351	2.454	2.424	2.318	1.833	2.323	12.60
83) T	n-Decane	1.602	1.076	1.370	1.223	1.266	1.194	1.136	0.862	1.216	17.77
84) T	Benzyl Chloride	1.629	1.303	1.884	1.744	2.026	2.160	2.101	1.702	1.819	15.61
85) T	1,3-Dichlorobe...	1.278	1.088	1.547	1.380	1.460	1.464	1.422	1.182	1.352	11.59
86) T	1,4-Dichlorobe...	1.287	1.126	1.608	1.450	1.541	1.542	1.492	1.231	1.410	12.28
87) T	sec-Butylbenzene	3.015	2.546	3.518	3.123	3.283	3.257	3.097	2.489	3.041	11.75
88) T	4-Isopropyltol...	2.782	2.458	3.421	3.044	3.251	3.211	3.056	2.356	2.947	12.97
89) T	1,2,3-Trimethy...	2.183	1.868	2.674	2.342	2.480	2.458	2.348	1.845	2.275	12.91
90) T	1,2-Dichlorobe...	1.148	1.038	1.470	1.340	1.422	1.448	1.402	1.141	1.301	12.81
91) T	d-Limonene	0.802	0.728	0.957	0.875	0.936	0.905	0.841	0.632	0.834	13.25
92) T	1,2-Dibromo-3-...	0.363	0.368	0.512	0.474	0.517	0.542	0.530	0.441	0.469	15.19
93) T	n-Undecane	1.317	1.169	1.526	1.295	1.333	2.250	1.392	0.938	1.403	27.32
94) T	1,2,4-Trichlor...	0.892	0.767	1.136	1.031	1.104	1.155	1.135	0.951	1.021	13.71
95) T	Naphthalene	3.090	2.668	3.659	3.340	3.626	3.874	3.744	2.992	3.374	12.56
96) T	n-Dodecane	1.530	1.193	1.611	1.514	1.527	1.415	1.303	0.964	1.382	15.70
97) T	Hexachlorobuta...	0.635	0.510	0.723	0.654	0.677	0.689	0.686	0.585	0.645	10.59
98) T	Cyclohexanone	1.183	0.826	0.940	0.840	0.847	0.841	0.802	0.635	0.864	17.84
99) T	tert-Butylbenzene	2.231	1.920	2.626	2.368	2.475	2.465	2.353	1.863	2.287	11.81
100) T	n-Butylbenzene	2.234	1.896	2.762	2.455	2.557	2.499	2.380	1.878	2.333	13.43

(#) = Out of Range

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**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-09030909
20ng/L Std. ID: S20-09030905

200ng/L Std. ID: S20-09030904
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)							
		200ng/L	20ng/L	4ng/L		0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50
		0.1ng	0.2ng	0.5ng		1ng	5ng	25ng	50ng	100ng			
Propene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Dichlorodifluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Chloromethane	1.00	200	20.0	4.00	0.100	0.200	0.500	1.00	5.00	25.0	50.0	100	
Freon-114	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
Vinyl Chloride	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101	
1,3-Butadiene	1.20	240	24.0	4.80	0.120	0.240	0.600	1.20	6.00	30.0	60.0	120	
Bromomethane	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102	
Chloroethane	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101	
Ethanol	5.20	1040	104	20.8	0.520	1.040	2.60	5.20	26.0	130	260	520	
Acetonitrile	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Acrolein	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Acetone	5.50	1100	110	22.0	0.550	1.100	2.75	5.50	27.5	138	275	550	
Trichlorofluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Isopropanol	1.89	378	37.8	7.56	0.189	0.378	0.945	1.89	9.45	47.3	94.5	189	
Acrylonitrile	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,1-Dichloroethene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
tert-Butanol	2.02	404	40.4	8.08	0.202	0.404	1.01	2.02	10.1	50.5	101	202	
Methylene Chloride	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Allyl Chloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Trichlorotrifluoroethane	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
Carbon Disulfide	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
trans-1,2-Dichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,1-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
Methyl tert-Butyl Ether	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
Vinyl Acetate	5.02	1004	100	20.1	0.502	1.004	2.51	5.02	25.1	126	251	502	
2-Butanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
cis-1,2-Dichloroethene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
Diisopropyl Ether	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Ethyl Acetate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213	
n-Hexane	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109	
Chloroform	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Tetrahydrofuran	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103	
1,2-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,1,1-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Isopropyl Acetate	2.09	418	41.8	8.36	0.209	0.418	1.05	2.09	10.5	52.3	105	209	
1-Butanol	2.07	414	41.4	8.28	0.207	0.414	1.04	2.07	10.4	51.8	104	207	
Benzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
Carbon Tetrachloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Cyclohexane	2.15	430	43.0	8.60	0.215	0.430	1.08	2.15	10.8	53.8	108	215	
tert-Amyl Methyl Ether	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104	
1,2-Dichloropropane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Bromodichloromethane	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Trichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
1,4-Dioxane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Isooctane	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104	
Methyl Methacrylate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213	
n-Heptane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
cis-1,3-Dichloropropene	0.99	198	19.8	3.96	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0	
4-Methyl-2-pentanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
trans-1,3-Dichloropropene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
1,1,2-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105	
Toluene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
2-Hexanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
Dibromochloromethane	1.15	230	23.0	4.60	0.115	0.230	0.575	1.15	5.75	28.8	57.5	115	
1,2-Dibromoethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
n-Butyl Acetate	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110	
n-Octane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107	
Tetrachloroethene	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102	
Chlorobenzene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108	
Ethylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106	
m-&p-Xylene	2.08	416	41.6	8.32	0.208	0.416	1.04	2.08	10.4	52.0	104	208	

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Calibration Status Report GCMS-16

Method Path : J:\MS16\METHODS\
 Method File : R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:31:43 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
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2	0.2	0	25	J:\MS16\DATA\2009_09\08\09080909.D
3	0.5	1	25	J:\MS16\DATA\2009_09\08\09080910.D
4	1.0	1	25	J:\MS16\DATA\2009_09\08\09080911.D
5	5.0	5	25	J:\MS16\DATA\2009_09\08\09080912.D
6	25	27	25	J:\MS16\DATA\2009_09\08\09080913.D
7	50	54	25	J:\MS16\DATA\2009_09\08\09080914.D
8	100	107	25	J:\MS16\DATA\2009_09\08\09080915.D

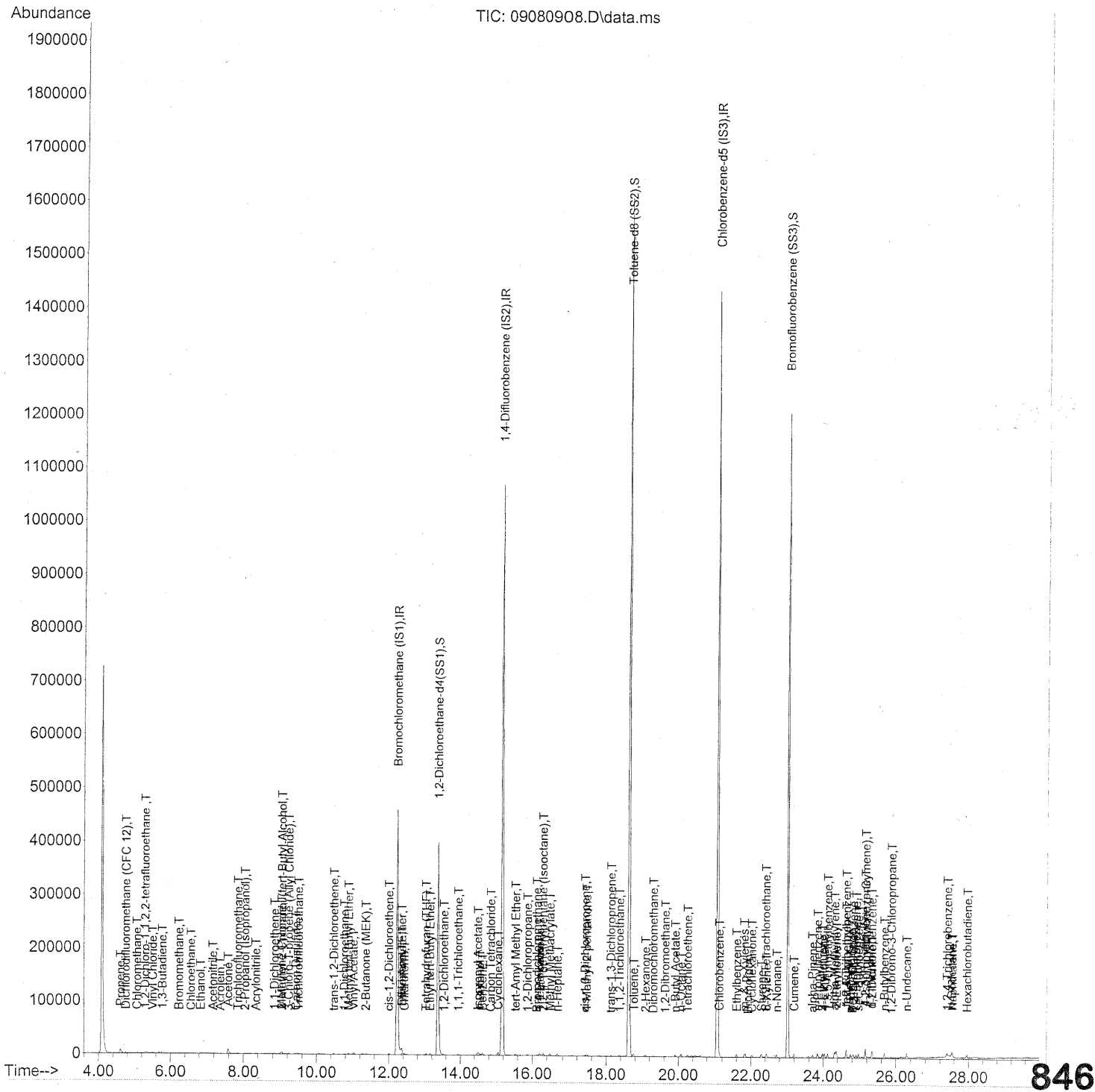
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2	0.2	Sep 09 09:23 2009	Sep 09 09:18 2009	
3	0.5	Sep 09 09:23 2009	Sep 09 09:20 2009	
4	1.0	Sep 09 09:23 2009	Sep 09 09:21 2009	
5	5.0	Sep 09 09:23 2009	Sep 09 09:16 2009	
6	25	Sep 09 09:24 2009	Sep 09 09:16 2009	
7	50	Sep 09 09:24 2009	Sep 09 09:16 2009	
8	100	Sep 09 09:24 2009	Sep 09 09:16 2009	

R16090809.M Wed Sep 09 14:35:18 2009

UH 9/9/09

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080908.D
Acq On : 8 Sep 2009 18:00
Operator : LH
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030909
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:16:54 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080908.D
 Acq On : 8 Sep 2009 18:00
 Operator : LH
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:16:54 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

LH 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	291506	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.17	114	1420179	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	597635	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.38	65	401966	21.737	ng	-0.01
Spiked Amount	25.000		Recovery	=	86.96%	
57) Toluene-d8 (SS2)	18.63	98	1506260	26.786	ng	-0.02
Spiked Amount	25.000		Recovery	=	107.16%	
73) Bromofluorobenzene (SS3)	23.02	174	522597	26.458	ng	0.00
Spiked Amount	25.000		Recovery	=	105.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.61	42	1105	0.072	ng	92
3) Dichlorodifluoromethan...	4.75	85	2308	0.084	ng	# 86
4) Chloromethane	5.07	50	1792	0.078	ng	84
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	1374	0.092	ng	88
6) Vinyl Chloride	5.50	62	1614	0.072	ng	81
7) 1,3-Butadiene	5.77	54	1441	0.094	ng	88
8) Bromomethane	6.23	94	1072	0.082	ng	96
9) Chloroethane	6.56	64	674	0.063	ng	# 43
10) Ethanol	6.84	45	4656m	0.450	ng	
11) Acetonitrile	7.17	41	2148m	0.081	ng	
12) Acrolein	7.37	56	631	0.083	ng	# 58
13) Acetone	7.59	58	5571	0.503	ng	88
14) Trichlorofluoromethane	7.86	101	1964	0.081	ng	98
15) 2-Propanol (Isopropanol)	8.04	45	5895	0.169	ng	72
16) Acrylonitrile	8.34	53	984	0.057	ng	88
17) 1,1-Dichloroethene	8.85	96	1181	0.089	ng	87
18) 2-Methyl-2-Propanol (t...	9.05	59	6605	0.189	ng	# 66
19) Methylene Chloride	9.04	84	1652	0.111	ng	82
20) 3-Chloro-1-propene (Al...	9.24	41	1334	0.070	ng	84
21) Trichlorotrifluoroethane	9.50	151	953	0.084	ng	87
22) Carbon Disulfide	9.44	76	4556	0.085	ng	82
23) trans-1,2-Dichloroethene	10.47	61	1451	0.075	ng	98
24) 1,1-Dichloroethane	10.76	63	1967	0.080	ng	93
25) Methyl tert-Butyl Ether	10.88	73	3382	0.085	ng	88
26) Vinyl Acetate	11.02	86	469	0.174	ng	# 59
27) 2-Butanone (MEK)	11.36	72	846	0.096	ng	95
28) cis-1,2-Dichloroethene	12.00	61	1453	0.076	ng	83
29) Diisopropyl Ether	12.36	87	861	0.077	ng	# 79
30) Ethyl Acetate	12.37	61	651	0.137	ng	91
31) n-Hexane	12.36	57	1876	0.087	ng	# 68

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Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080908.D
 Acq On : 8 Sep 2009 18:00
 Operator : LH
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:16:54 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.44	83	1983	0.084	ng	92
34) Tetrahydrofuran (THF)	13.03	72	732	0.084	ng	90
35) Ethyl tert-Butyl Ether	13.15	87	1306	0.077	ng	94
36) 1,2-Dichloroethane	13.54	62	1255	0.074	ng	77
38) 1,1,1-Trichloroethane	13.93	97	1634	0.081	ng	84
39) Isopropyl Acetate	14.49	61	1537	0.170	ng	# 87
40) 1-Butanol	14.55	56	2607	0.201	ng	84
41) Benzene	14.62	78	5483	0.096	ng	96
42) Carbon Tetrachloride	14.85	117	1307	0.078	ng	# 1
43) Cyclohexane	15.05	84	3659	0.172	ng	89
44) tert-Amyl Methyl Ether	15.54	73	3420	0.084	ng	93
45) 1,2-Dichloropropane	15.86	63	1049	0.074	ng	99
46) Bromodichloromethane	16.12	83	1410	0.081	ng	92
47) Trichloroethene	16.20	130	1634	0.098	ng	92
48) 1,4-Dioxane	16.19	88	1012	0.090	ng	# 67
49) 2,2,4-Trimethylpentane...	16.29	57	5091	0.083	ng	97
50) Methyl Methacrylate	16.48	100	1056	0.192	ng	# 85
51) n-Heptane	16.66	71	1209	0.082	ng	90
52) cis-1,3-Dichloropropene	17.42	75	1635	0.077	ng	89
53) 4-Methyl-2-pentanone	17.46	58	1138	0.095	ng	92
54) trans-1,3-Dichloropropene	18.13	75	1547	0.084	ng	94
55) 1,1,2-Trichloroethane	18.37	97	1299	0.098	ng	82
58) Toluene	18.76	91	5994	0.110	ng	94
59) 2-Hexanone	19.09	43	2895	0.101	ng	98
60) Dibromochloromethane	19.30	129	1368	0.107	ng	89
61) 1,2-Dibromoethane	19.63	107	1282	0.096	ng	87
62) n-Butyl Acetate	19.91	43	3218	0.099	ng	94
63) n-Octane	20.07	57	985	0.087	ng	81
64) Tetrachloroethene	20.25	166	1589	0.104	ng	96
65) Chlorobenzene	21.12	112	3681	0.105	ng	96
66) Ethylbenzene	21.60	91	6117	0.102	ng	98
67) m- & p-Xylenes	21.82	91	9249	0.197	ng	# 29
68) Bromoform	21.92	173	1192	0.100	ng	93
69) Styrene	22.29	104	3992	0.111	ng	91
70) o-Xylene	22.44	91	5121	0.107	ng	92
71) n-Nonane	22.71	43	2544	0.097	ng	98
72) 1,1,2,2-Tetrachloroethane	22.41	83	2006	0.095	ng	90
74) Cumene	23.20	105	6993	0.111	ng	100
75) alpha-Pinene	23.70	93	2936	0.096	ng	94
76) n-Propylbenzene	23.84	91	7675	0.100	ng	94
77) 3-Ethyltoluene	23.97	105	6880	0.117	ng	99
78) 4-Ethyltoluene	24.03	105	6926	0.117	ng	94
79) 1,3,5-Trimethylbenzene	24.12	105	5804	0.118	ng	94

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Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080908.D
 Acq On : 8 Sep 2009 18:00
 Operator : LH
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:16:54 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

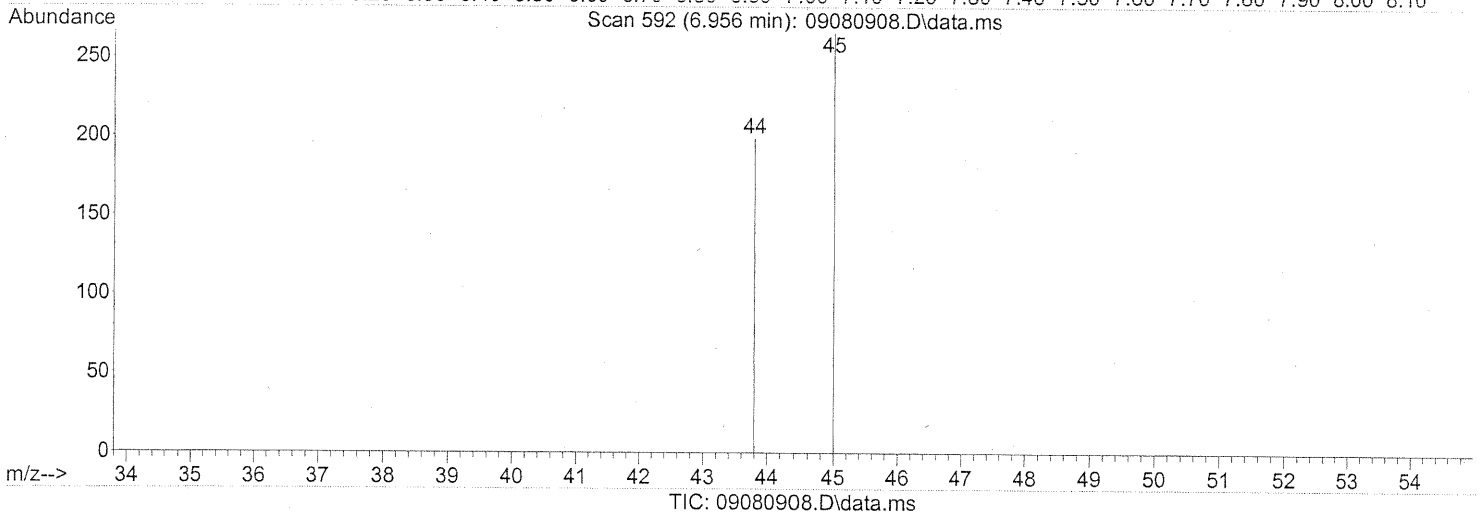
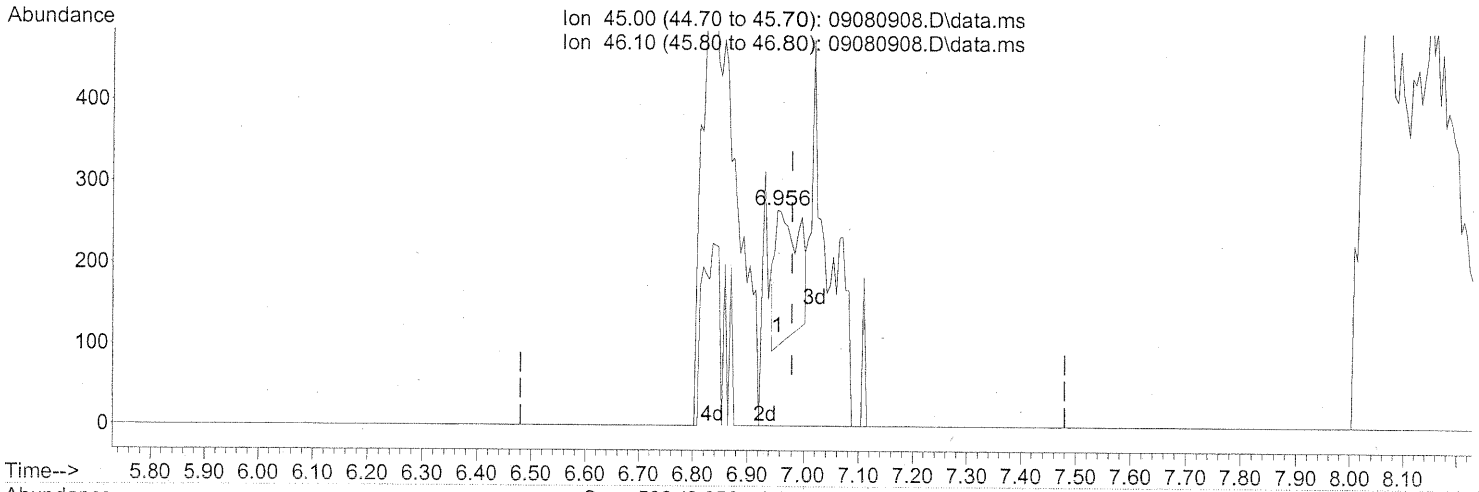
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	2868	0.107	ng	88
81) 2-Ethyltoluene	24.36	105	7621	0.121	ng	93
82) 1,2,4-Trimethylbenzene	24.63	105	6724	0.131	ng	91
83) n-Decane	24.75	57	4135	0.146	ng	86
84) Benzyl Chloride	24.80	91	4283	0.104	ng	90
85) 1,3-Dichlorobenzene	24.83	146	3331	0.117	ng	96
86) 1,4-Dichlorobenzene	24.91	146	3262	0.107	ng	98
87) sec-Butylbenzene	24.97	105	7639	0.112	ng	94
88) 4-Isopropyltoluene (p-...	25.16	119	6849	0.105	ng	98
89) 1,2,3-Trimethylbenzene	25.16	105	5584	0.109	ng	94
90) 1,2-Dichlorobenzene	25.33	146	2910	0.103	ng	99
91) d-Limonene	25.34	68	2090	0.105	ng	94
92) 1,2-Dibromo-3-Chloropr...	25.87	157	955	0.105	ng	81
93) n-Undecane	26.28	57	3431	0.116	ng	82
94) 1,2,4-Trichlorobenzene	27.40	180	2389	0.119	ng	91
95) Naphthalene	27.55	128	7830	0.111	ng	95
96) n-Dodecane	27.52	57	3620	0.111	ng	# 67
97) Hexachlorobutadiene	27.96	225	1670	0.130	ng	90
98) Cyclohexanone	22.03	55	2771	0.137	ng	94
99) tert-Butylbenzene	24.63	119	5653	0.111	ng	99
100) n-Butylbenzene	25.68	91	5822	0.109	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080908.D
Acq On : 8 Sep 2009 18:00
Operator : LH
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030909
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



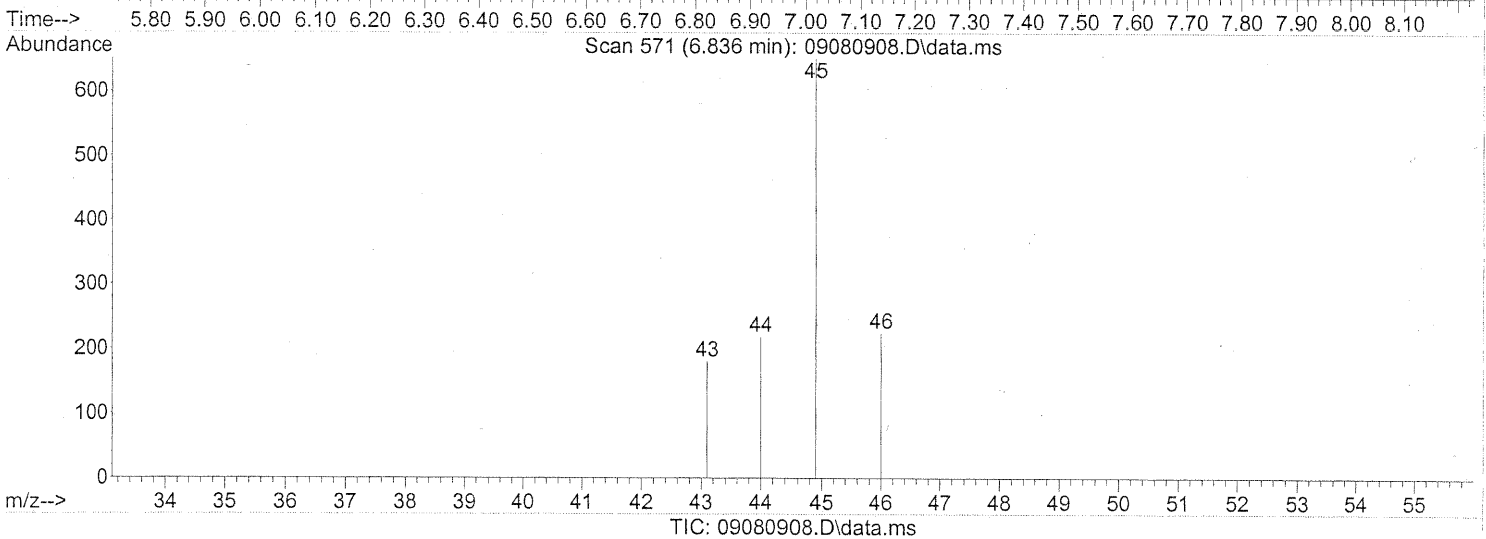
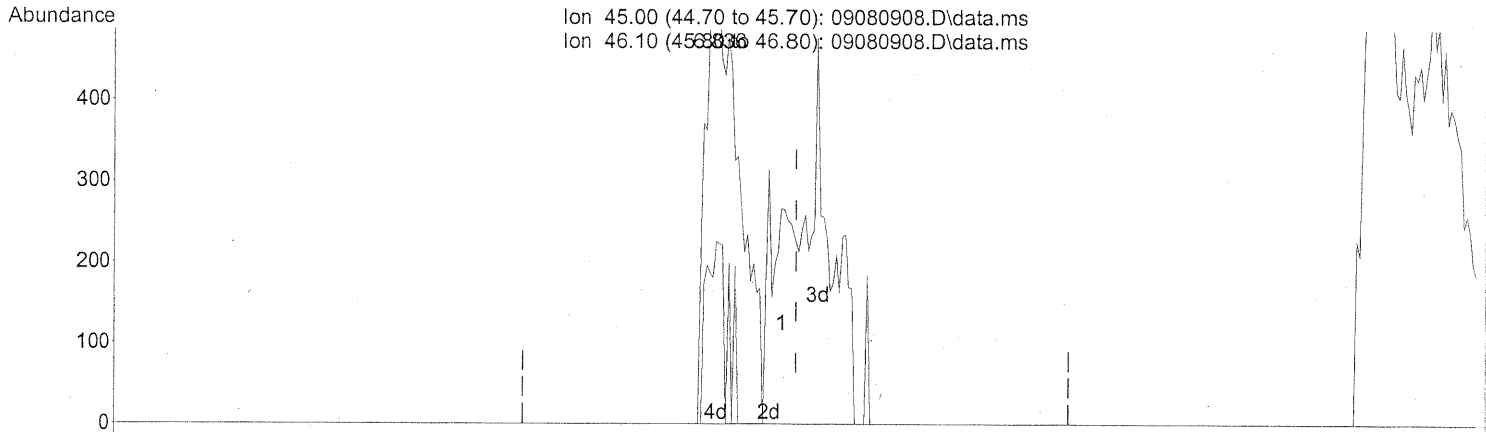
(10) Ethanol (T)
6.956min (-0.024) 0.04ng
response 442
Ion Exp% Act%
45.00 100 100
46.10 38.80 0.00#
0.00 0.00 0.00
0.00 0.00 0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080908.D
 Acq On : 8 Sep 2009 18:00
 Operator : LH
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.836min (-0.144) 0.45ng m
 response 4656

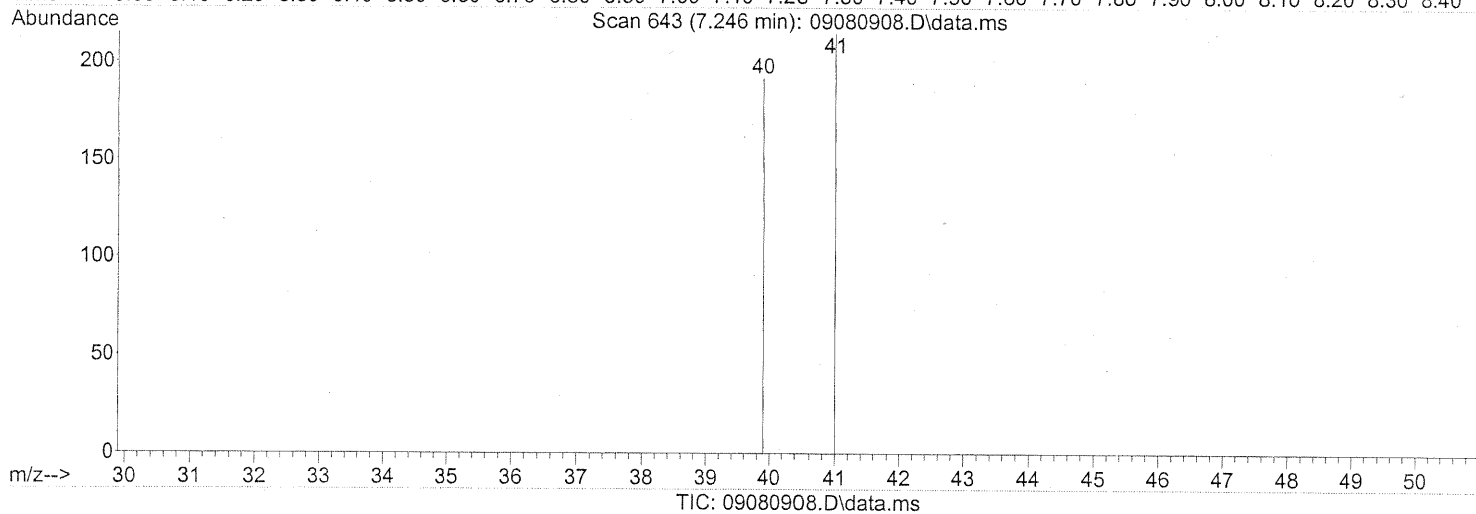
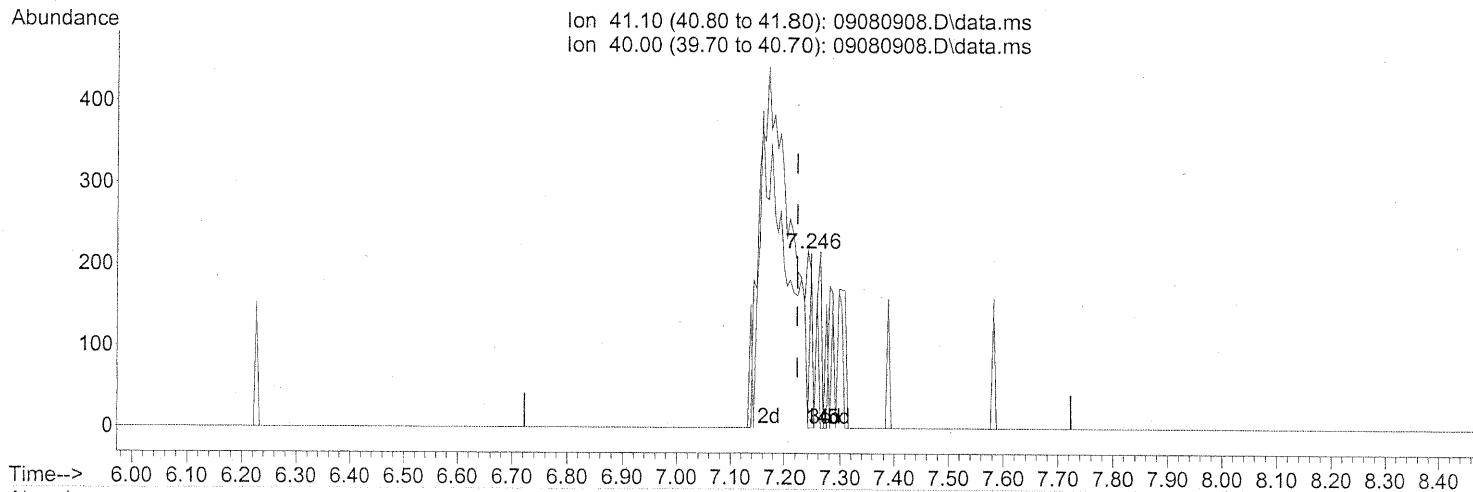
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
LM 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080908.D
Acq On : 8 Sep 2009 18:00
Operator : LH
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030909
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:52 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(11) Acetonitrile (T)

7.246min (+0.023) 0.00ng

response 73

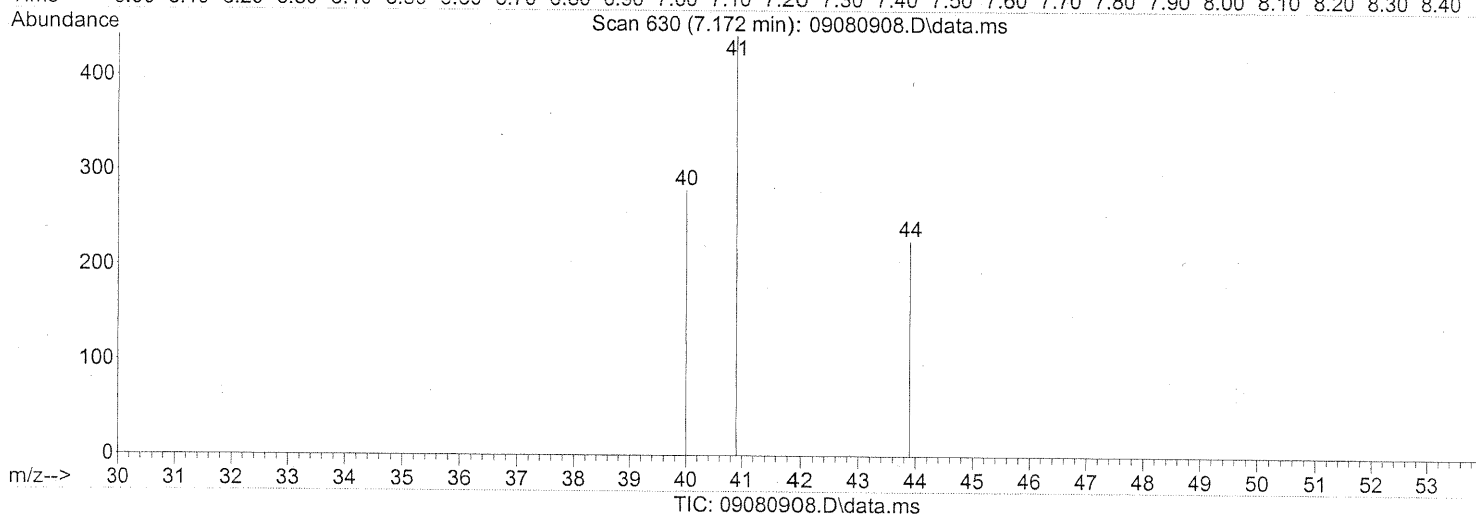
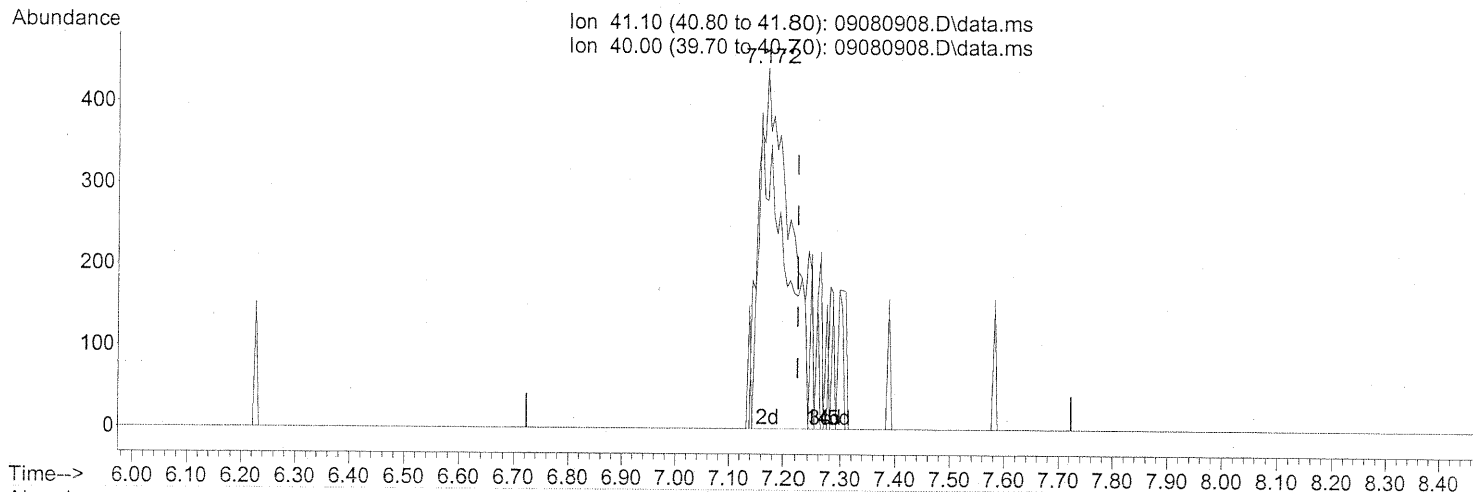
Ion	Exp%	Act%
41.10	100	100
40.00	52.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080908.D
 Acq On : 8 Sep 2009 18:00
 Operator : LH
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.172min (-0.051) 0.08ng m
 response 2148

Ion	Exp%	Act%
41.10	100	100
40.00	52.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

MP → IC
 LH 9/9/09

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:18:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

W 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	293403	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.17	114	1439287	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	603584	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.37	65	409063	21.978	ng	-0.02
Spiked Amount	25.000		Recovery	= 87.92%		
57) Toluene-d8 (SS2)	18.62	98	1522503	26.808	ng	-0.02
Spiked Amount	25.000		Recovery	= 107.24%		
73) Bromofluorobenzene (SS3)	23.02	174	527330	26.435	ng	0.00
Spiked Amount	25.000		Recovery	= 105.72%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.60	42	2018	0.131	ng	93
3) Dichlorodifluoromethan...	4.75	85	4338	0.157	ng	# 95
4) Chloromethane	5.06	50	3087	0.134	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.29	135	2592	0.173	ng	91
6) Vinyl Chloride	5.49	62	3064	0.136	ng	94
7) 1,3-Butadiene	5.76	54	2476	0.160	ng	96
8) Bromomethane	6.22	94	2053	0.156	ng	92
9) Chloroethane	6.55	64	1502	0.139	ng	83
10) Ethanol	6.82	45	8139m	0.782	ng	
11) Acetonitrile	7.17	41	3985m	0.149	ng	
12) Acrolein	7.37	56	1166	0.152	ng	95
13) Acetone	7.58	58	9311	0.835	ng	89
14) Trichlorofluoromethane	7.85	101	3604	0.148	ng	95
15) 2-Propanol (Isopropanol)	8.01	45	10756m	0.307	ng	
16) Acrylonitrile	8.34	53	2017	0.116	ng	99
17) 1,1-Dichloroethene	8.85	96	2231	0.167	ng	# 73
18) 2-Methyl-2-Propanol (t...	9.06	59	11528	0.327	ng	# 68
19) Methylene Chloride	9.04	84	2593	0.173	ng	86
20) 3-Chloro-1-propene (Al...	9.23	41	2438	0.128	ng	94
21) Trichlorotrifluoroethane	9.49	151	1770	0.154	ng	95
22) Carbon Disulfide	9.44	76	8327	0.154	ng	96
23) trans-1,2-Dichloroethene	10.47	61	2523	0.130	ng	85
24) 1,1-Dichloroethane	10.76	63	3582	0.144	ng	93
25) Methyl tert-Butyl Ether	10.88	73	6157	0.153	ng	94
26) Vinyl Acetate	11.01	86	1215	0.448	ng	# 96
27) 2-Butanone (MEK)	11.35	72	1612	0.182	ng	# 91
28) cis-1,2-Dichloroethene	12.00	61	2736	0.142	ng	87
29) Diisopropyl Ether	12.35	87	1751	0.155	ng	# 60
30) Ethyl Acetate	12.36	61	1468	0.307	ng	97
31) n-Hexane	12.36	57	3466	0.160	ng	9855

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:18:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.44	83	3545	0.149	ng	96
34) Tetrahydrofuran (THF)	13.03	72	1446	0.164	ng #	84
35) Ethyl tert-Butyl Ether	13.15	87	2692	0.157	ng #	78
36) 1,2-Dichloroethane	13.54	62	2335	0.136	ng	97
38) 1,1,1-Trichloroethane	13.93	97	3107	0.152	ng	95
39) Isopropyl Acetate	14.49	61	2801	0.306	ng	97
40) 1-Butanol	14.53	56	4613	0.352	ng #	8
41) Benzene	14.63	78	9338	0.161	ng	97
42) Carbon Tetrachloride	14.85	117	2427	0.144	ng	98
43) Cyclohexane	15.05	84	6581	0.306	ng	90
44) tert-Amyl Methyl Ether	15.54	73	6115	0.148	ng	96
45) 1,2-Dichloropropane	15.86	63	1971	0.137	ng	99
46) Bromodichloromethane	16.12	83	2791	0.158	ng	92
47) Trichloroethene	16.20	130	2766	0.164	ng	99
48) 1,4-Dioxane	16.18	88	1820	0.159	ng	87
49) 2,2,4-Trimethylpentane...	16.29	57	9159	0.148	ng	98
50) Methyl Methacrylate	16.49	100	1926	0.345	ng #	80
51) n-Heptane	16.67	71	2367	0.158	ng	91
52) cis-1,3-Dichloropropene	17.41	75	3118	0.145	ng	93
53) 4-Methyl-2-pentanone	17.46	58	2067	0.170	ng	97
54) trans-1,3-Dichloropropene	18.13	75	2842	0.151	ng	97
55) 1,1,2-Trichloroethane	18.37	97	2199	0.164	ng	91
58) Toluene	18.75	91	10399	0.189	ng	98
59) 2-Hexanone	19.08	43	5092	0.176	ng	99
60) Dibromochloromethane	19.29	129	2458	0.191	ng	97
61) 1,2-Dibromoethane	19.62	107	2328	0.173	ng	95
62) n-Butyl Acetate	19.91	43	5466	0.166	ng	95
63) n-Octane	20.07	57	1970	0.173	ng	94
64) Tetrachloroethene	20.26	166	2893	0.187	ng	96
65) Chlorobenzene	21.13	112	6650	0.188	ng	93
66) Ethylbenzene	21.60	91	10846	0.178	ng	96
67) m- & p-Xylenes	21.84	91	16679	0.351	ng	95
68) Bromoform	21.92	173	2110	0.175	ng	96
69) Styrene	22.29	104	6785	0.187	ng	96
70) o-Xylene	22.44	91	8753	0.182	ng	100
71) n-Nonane	22.71	43	4333	0.163	ng	97
72) 1,1,2,2-Tetrachloroethane	22.40	83	3578	0.168	ng	97
74) Cumene	23.20	105	11598	0.183	ng	99
75) alpha-Pinene	23.70	93	5203	0.168	ng	97
76) n-Propylbenzene	23.85	91	13749	0.178	ng	97
77) 3-Ethyltoluene	23.97	105	11671	0.196	ng	99
78) 4-Ethyltoluene	24.03	105	11061	0.185	ng	96
79) 1,3,5-Trimethylbenzene	24.12	105	9626	0.194	ng	96

856

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:18:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

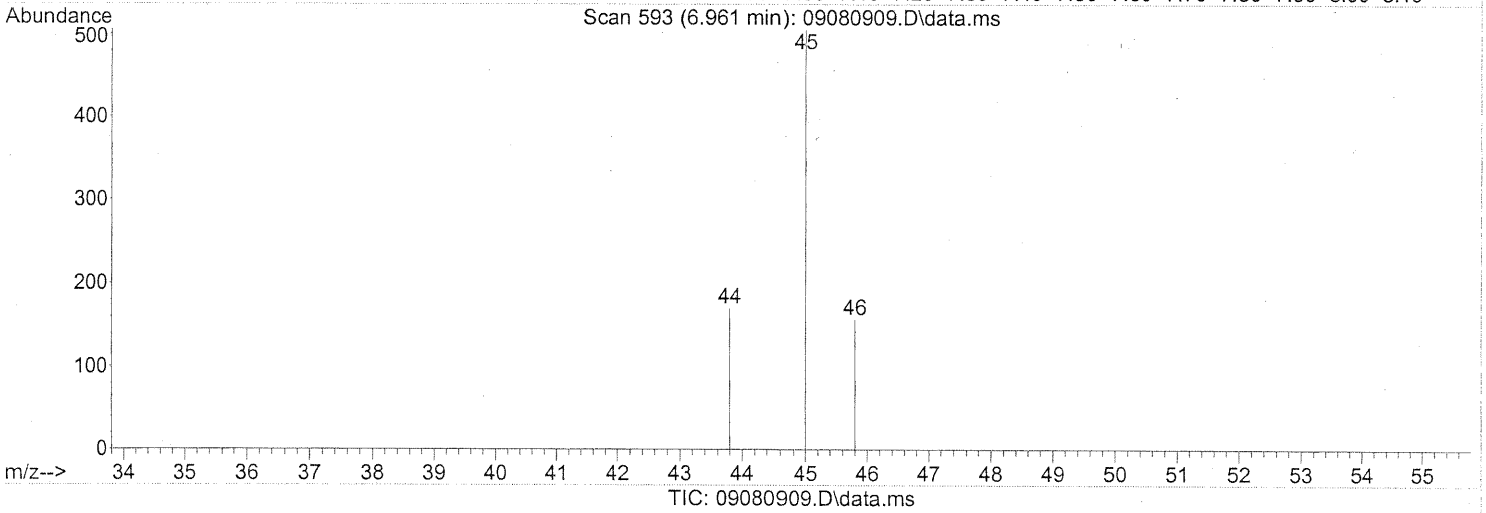
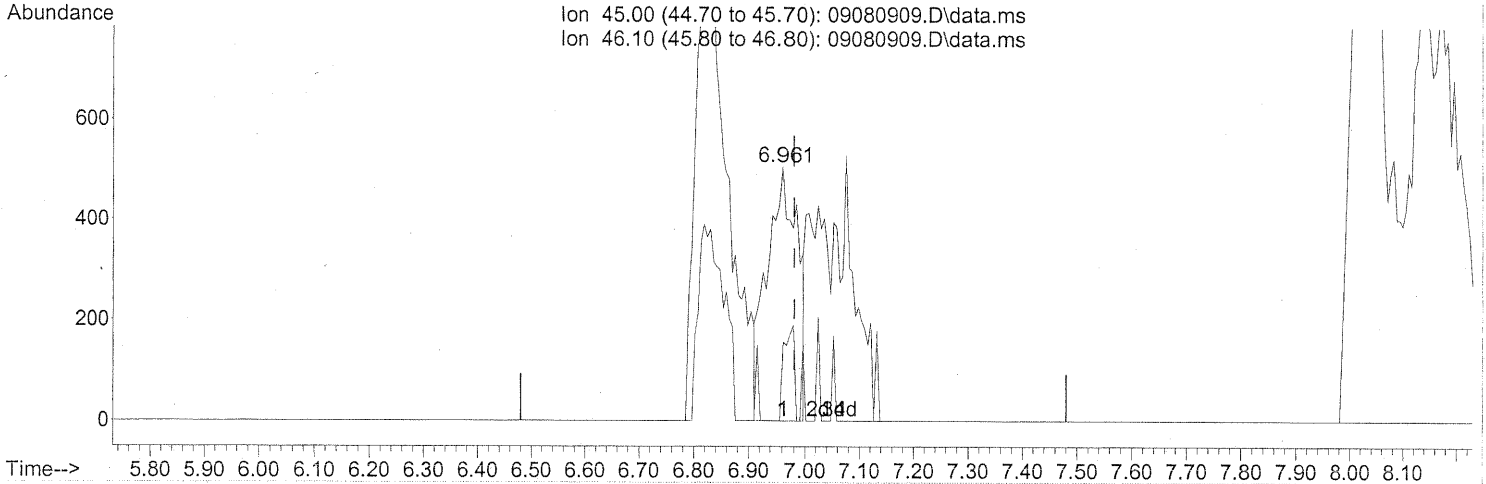
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.31	118	5081	0.187	ng	97
81) 2-Ethyltoluene	24.36	105	12070	0.190	ng	100
82) 1,2,4-Trimethylbenzene	24.63	105	9960	0.193	ng	100
83) n-Decane	24.75	57	5613	0.196	ng	98
84) Benzyl Chloride	24.80	91	6923	0.166	ng	98
85) 1,3-Dichlorobenzene	24.83	146	5724	0.199	ng	98
86) 1,4-Dichlorobenzene	24.91	146	5764	0.188	ng	94
87) sec-Butylbenzene	24.97	105	13029	0.189	ng	97
88) 4-Isopropyltoluene (p-...	25.16	119	12227	0.186	ng	97
89) 1,2,3-Trimethylbenzene	25.16	105	9652	0.186	ng	97
90) 1,2-Dichlorobenzene	25.33	146	5314	0.187	ng	100
91) d-Limonene	25.34	68	3831	0.190	ng	95
92) 1,2-Dibromo-3-Chloropr...	25.87	157	1956	0.213	ng	# 80
93) n-Undecane	26.29	57	6151	0.206	ng	94
94) 1,2,4-Trichlorobenzene	27.39	180	4146	0.204	ng	98
95) Naphthalene	27.54	128	13654	0.192	ng	100
96) n-Dodecane	27.52	57	5705	0.173	ng	75
97) Hexachlorobutadiene	27.96	225	2709	0.209	ng	100
98) Cyclohexanone	22.03	55	3908	0.192	ng	# 92
99) tert-Butylbenzene	24.63	119	9825	0.191	ng	99
100) n-Butylbenzene	25.68	91	9980	0.185	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080909.D
Acq On : 8 Sep 2009 18:38
Operator : LH
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030909
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(10) Ethanol (T)
6.961min (-0.019) 0.18ng
response 1825

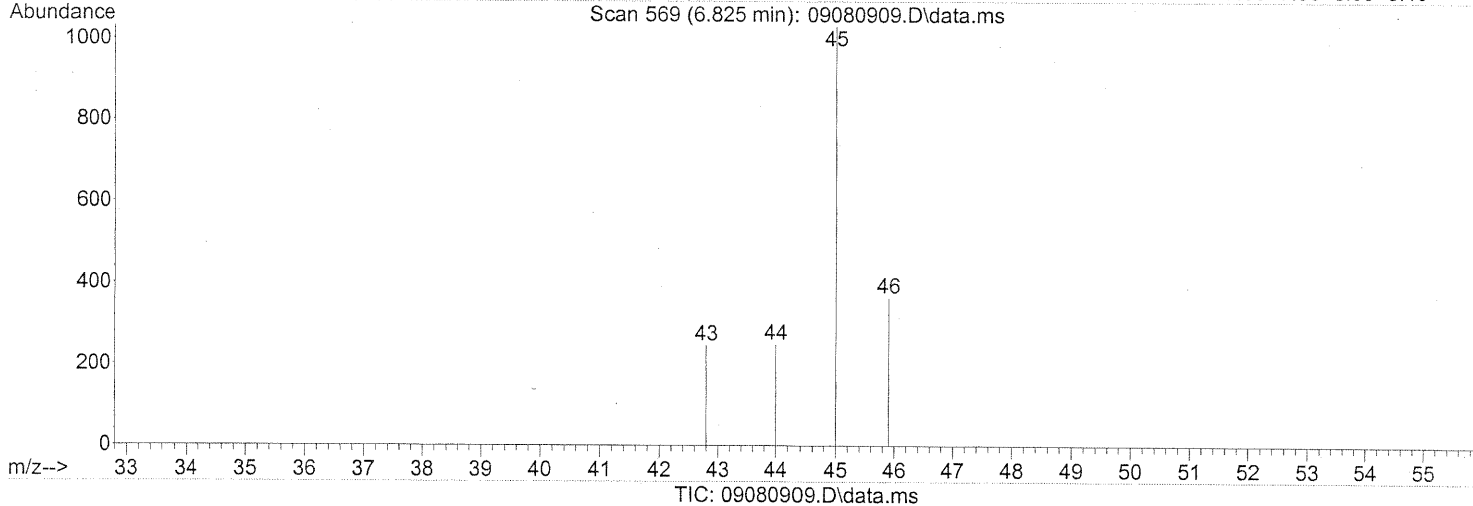
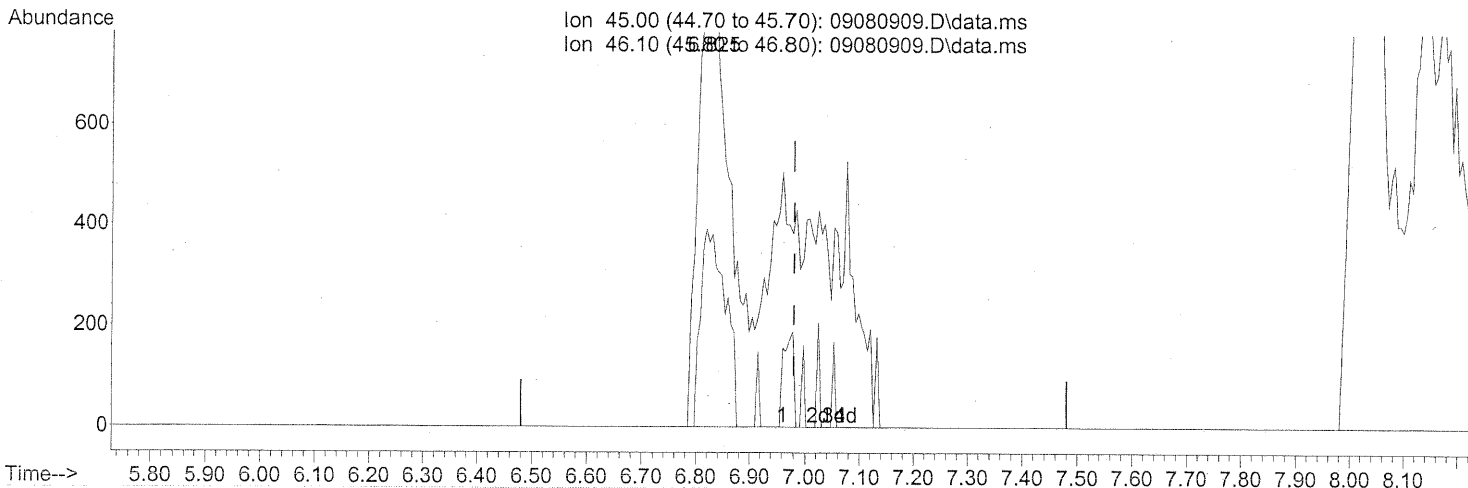
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	12.49#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.825min (-0.155) 0.78ng m

response 8139

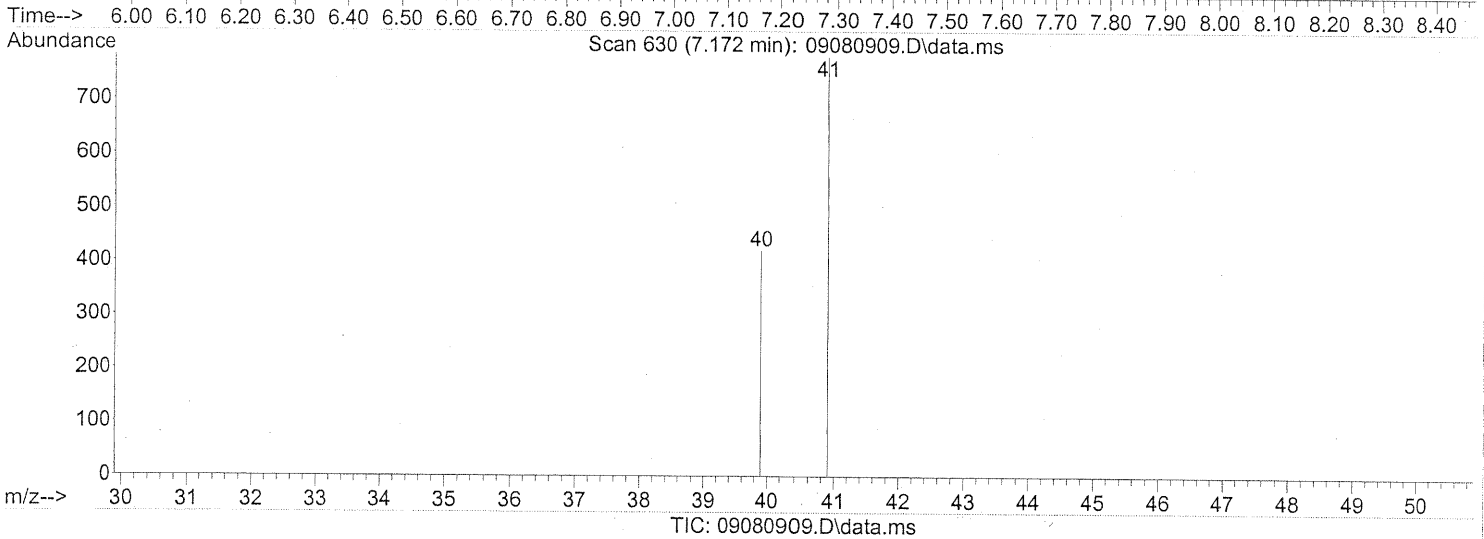
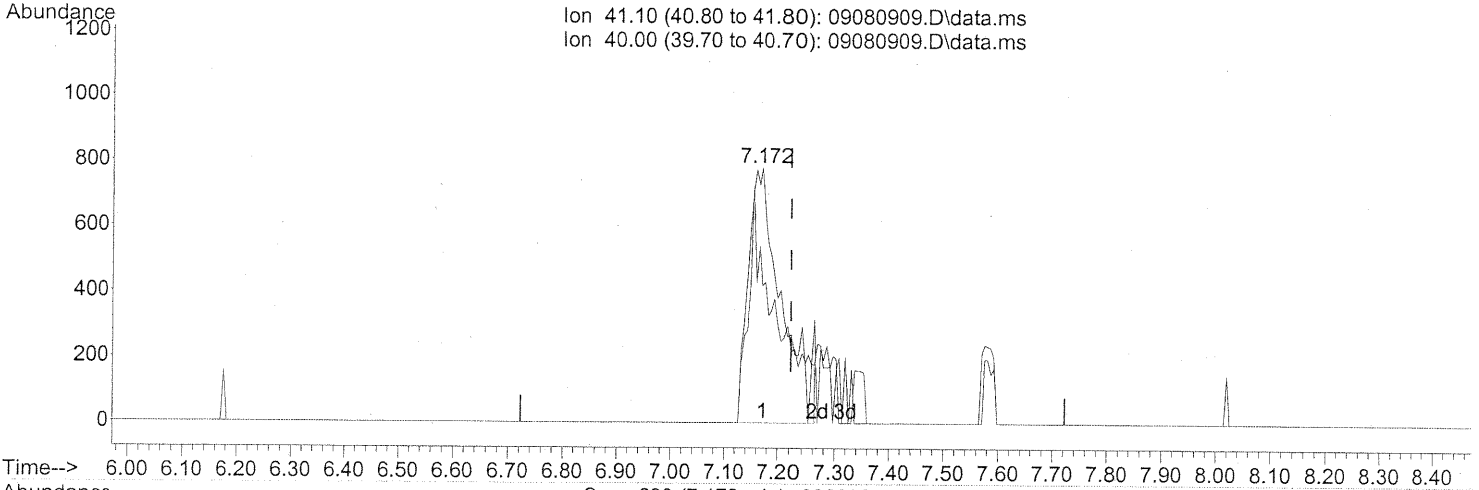
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	2.80#
0.00	0.00	0.00
0.00	0.00	0.00

*SP → IC
 in 9/9/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.172min (-0.051) 0.13ng
 response 3353

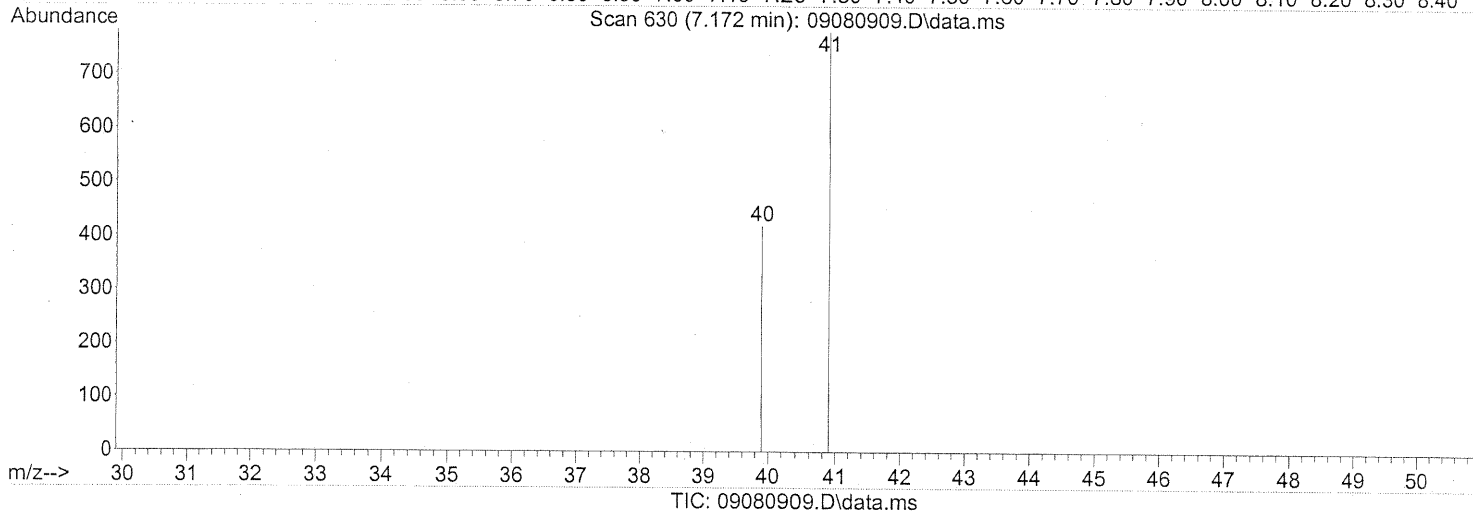
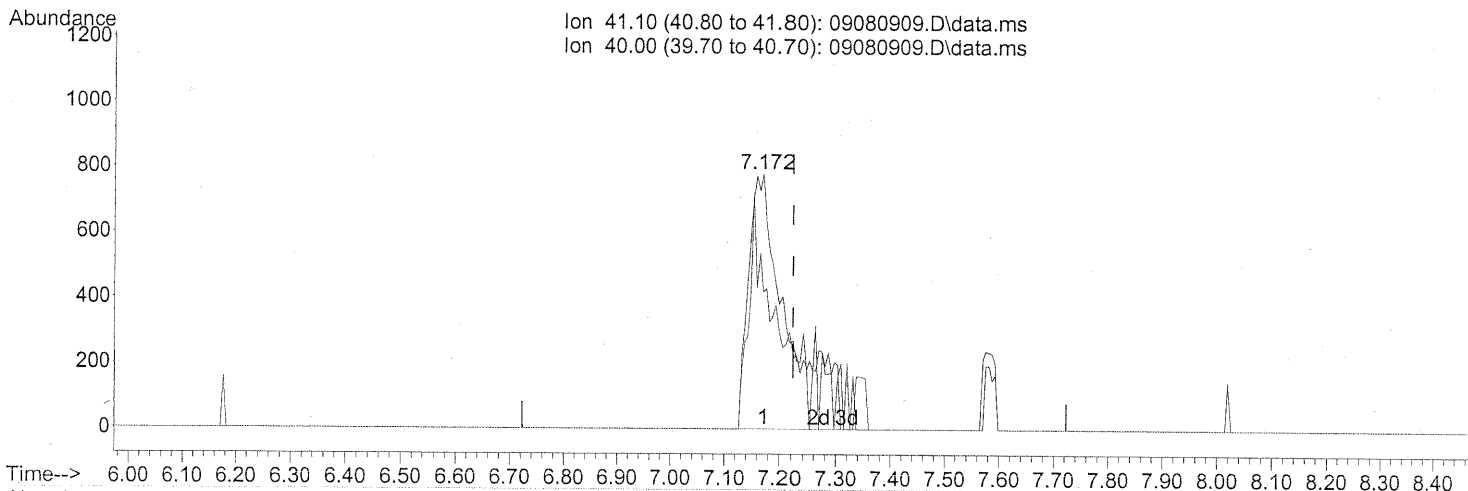
Ion	Exp%	Act%
41.10	100	100
40.00	52.40	70.15
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.172min (-0.051) 0.15ng m
 response 3985

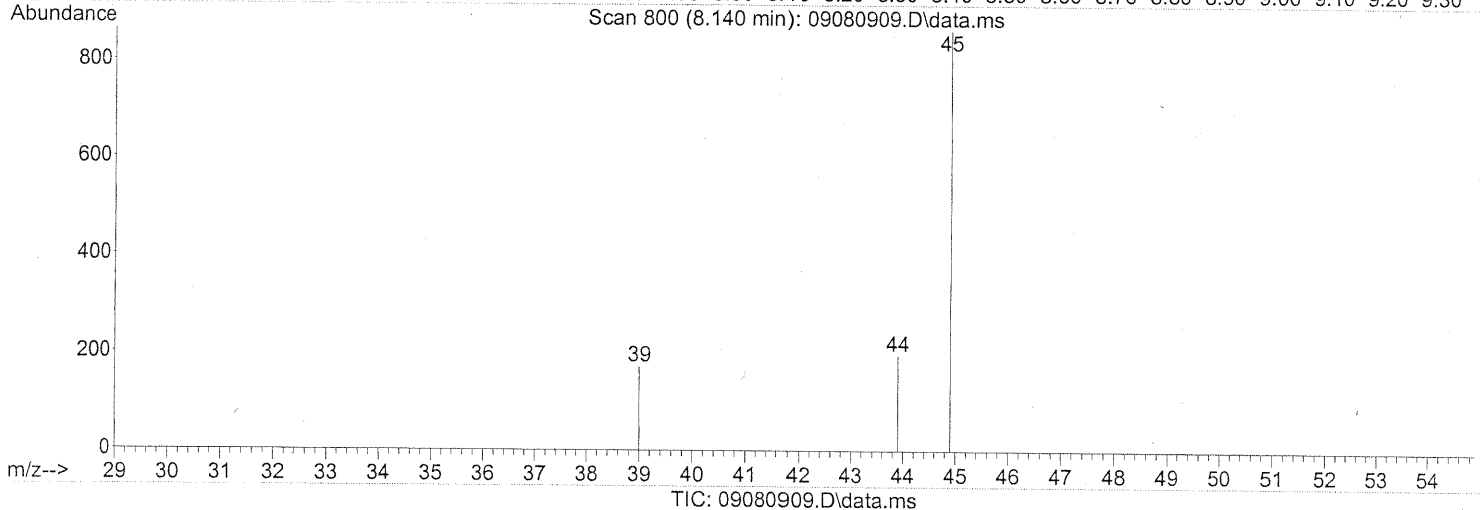
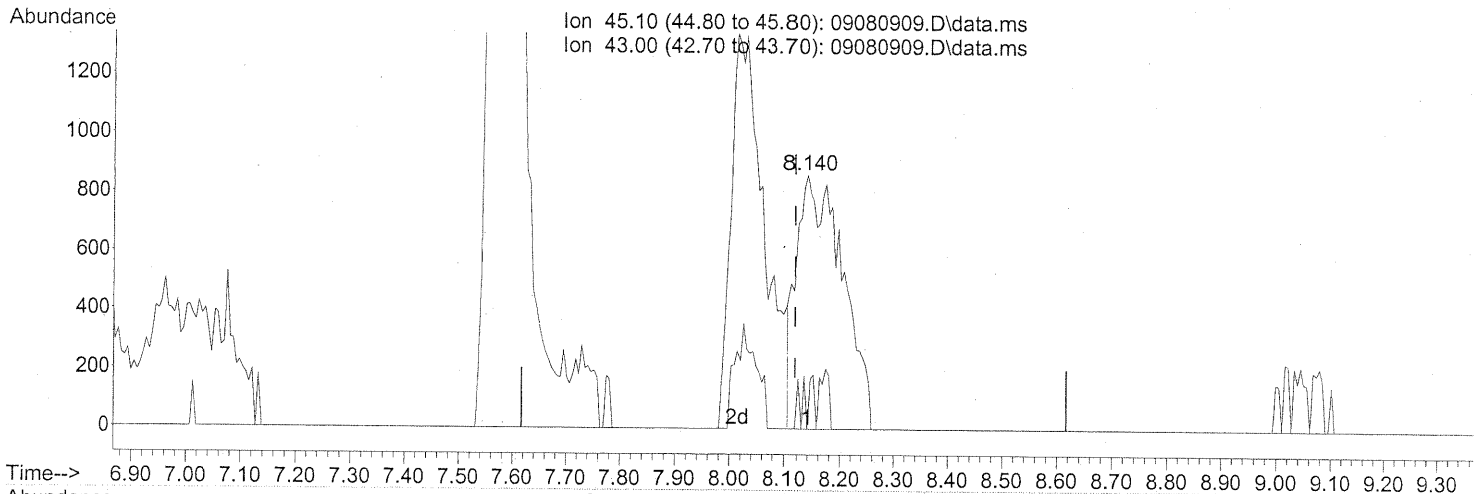
Ion	Exp%	Act%
41.10	100	100
40.00	52.40	59.02
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
LH 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.140min (+0.022) 0.14ng

response 5068

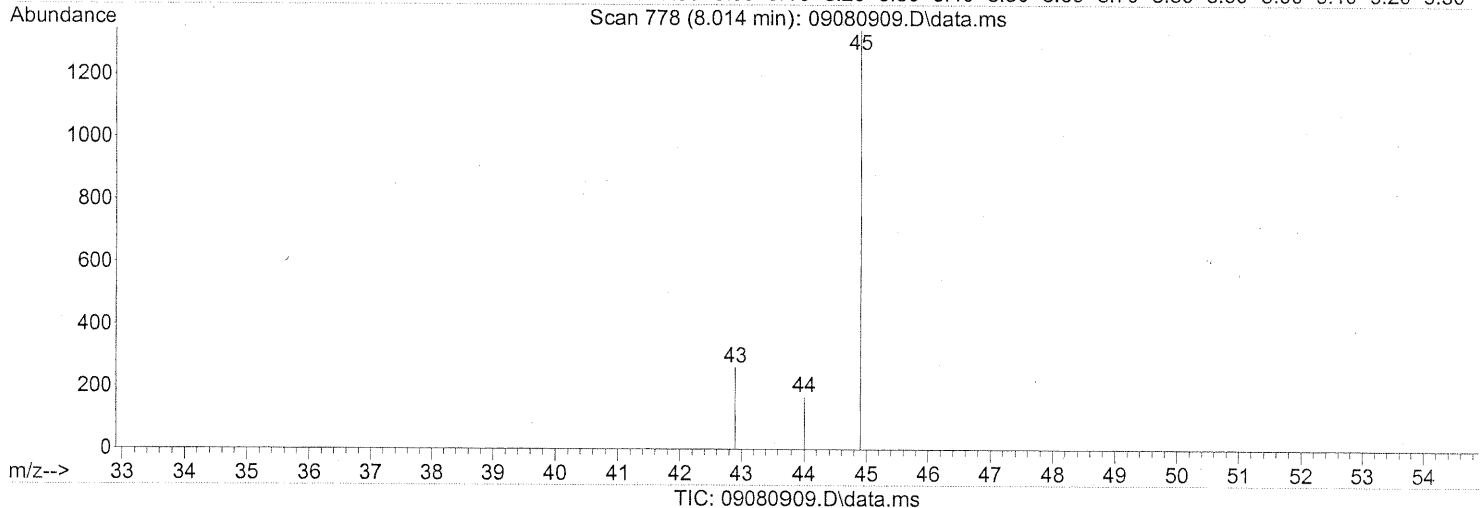
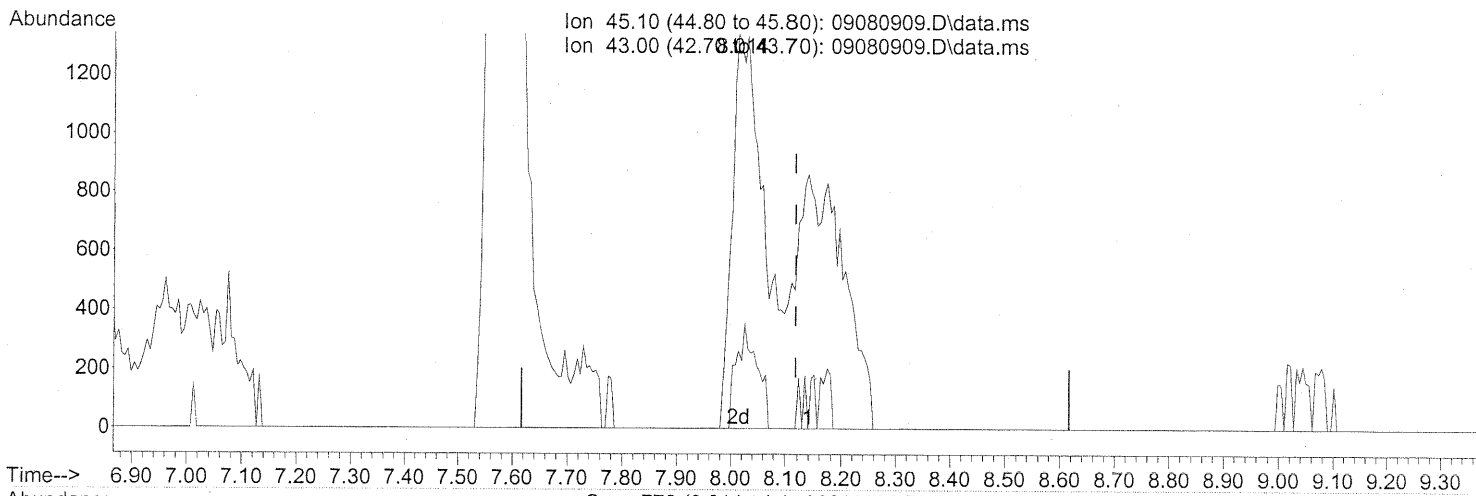
SP

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	3.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080909.D
 Acq On : 8 Sep 2009 18:38
 Operator : LH
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030909
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 09:15:55 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.014min (-0.103) 0.31ng m

response 10756

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	1.70
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
 LH 9/9/09

863

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:20:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

W 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	310542	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.17	114	1474147	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	632618	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.38	65	422206	21.432	ng	-0.01
Spiked Amount	25.000		Recovery	=	85.72%	
57) Toluene-d8 (SS2)	18.63	98	1591987	26.745	ng	-0.02
Spiked Amount	25.000		Recovery	=	106.96%	
73) Bromofluorobenzene (SS3)	23.02	174	548908	26.254	ng	0.00
Spiked Amount	25.000		Recovery	=	105.00%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.58	42	7541	0.461	ng	98
3) Dichlorodifluoromethan...	4.74	85	15452	0.529	ng	99
4) Chloromethane	5.05	50	11998	0.491	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	9328	0.588	ng	98
6) Vinyl Chloride	5.48	62	11447	0.481	ng	99
7) 1,3-Butadiene	5.74	54	9614	0.588	ng	95
8) Bromomethane	6.22	94	7284	0.522	ng	99
9) Chloroethane	6.54	64	5396	0.473	ng	100
10) Ethanol	6.82	45	26351m	2.392	ng	
11) Acetonitrile	7.16	41	13948	0.493	ng	96
12) Acrolein	7.36	56	3707	0.457	ng	98
13) Acetone	7.57	58	26648	2.258	ng	92
14) Trichlorofluoromethane	7.84	101	13558	0.526	ng	100
15) 2-Propanol (Isopropanol)	8.01	45	37602m	1.012	ng	
16) Acrylonitrile	8.33	53	9892m	0.538	ng	
17) 1,1-Dichloroethene	8.85	96	8050	0.569	ng	# 85
18) 2-Methyl-2-Propanol (t...	8.94	59	40449m	1.085	ng	
19) Methylene Chloride	9.04	84	8337	0.525	ng	83
20) 3-Chloro-1-propene (Al...	9.23	41	9950	0.493	ng	95
21) Trichlorotrifluoroethane	9.48	151	6592	0.544	ng	85
22) Carbon Disulfide	9.43	76	30939	0.540	ng	99
23) trans-1,2-Dichloroethene	10.46	61	10192	0.497	ng	87
24) 1,1-Dichloroethane	10.76	63	13524	0.514	ng	99
25) Methyl tert-Butyl Ether	10.87	73	21503	0.504	ng	98
26) Vinyl Acetate	11.02	86	5501	1.915	ng	# 76
27) 2-Butanone (MEK)	11.36	72	5413	0.576	ng	# 83
28) cis-1,2-Dichloroethene	12.00	61	10822	0.532	ng	88
29) Diisopropyl Ether	12.35	87	6375	0.533	ng	# 56
30) Ethyl Acetate	12.35	61	5455	1.078	ng	97
31) n-Hexane	12.36	57	11180	0.487	ng	98

865

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:20:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.44	83	13766	0.546	ng	97
34) Tetrahydrofuran (THF)	13.02	72	4834	0.519	ng	# 86
35) Ethyl tert-Butyl Ether	13.15	87	8840	0.488	ng	# 85
36) 1,2-Dichloroethane	13.53	62	9305	0.513	ng	100
38) 1,1,1-Trichloroethane	13.93	97	11243	0.535	ng	96
39) Isopropyl Acetate	14.49	61	10004	1.069	ng	94
40) 1-Butanol	14.52	56	15034	1.119	ng	79
41) Benzene	14.62	78	32236	0.544	ng	99
42) Carbon Tetrachloride	14.85	117	9510	0.550	ng	99
43) Cyclohexane	15.05	84	23148	1.049	ng	91
44) tert-Amyl Methyl Ether	15.54	73	22121	0.523	ng	96
45) 1,2-Dichloropropane	15.86	63	7385	0.503	ng	97
46) Bromodichloromethane	16.12	83	9863	0.546	ng	99
47) Trichloroethene	16.20	130	9577	0.556	ng	99
48) 1,4-Dioxane	16.17	88	6833	0.584	ng	95
49) 2,2,4-Trimethylpentane...	16.29	57	32486	0.511	ng	98
50) Methyl Methacrylate	16.48	100	7389	1.292	ng	# 75
51) n-Heptane	16.66	71	8214	0.537	ng	94
52) cis-1,3-Dichloropropene	17.42	75	11440	0.520	ng	99
53) 4-Methyl-2-pentanone	17.46	58	7528	0.604	ng	92
54) trans-1,3-Dichloropropene	18.13	75	11504	0.598	ng	97
55) 1,1,2-Trichloroethane	18.36	97	8145	0.595	ng	96
58) Toluene	18.76	91	37291	0.648	ng	100
59) 2-Hexanone	19.08	43	18184	0.601	ng	96
60) Dibromochloromethane	19.29	129	9533	0.707	ng	99
61) 1,2-Dibromoethane	19.63	107	9251	0.656	ng	96
62) n-Butyl Acetate	19.91	43	20279	0.587	ng	96
63) n-Octane	20.07	57	6946	0.582	ng	89
64) Tetrachloroethene	20.25	166	10614	0.656	ng	98
65) Chlorobenzene	21.12	112	24622	0.666	ng	98
66) Ethylbenzene	21.60	91	39733	0.623	ng	96
67) m- & p-Xylenes	21.82	91	60627	1.217	ng	95
68) Bromoform	21.92	173	8220	0.652	ng	99
69) Styrene	22.29	104	25060	0.657	ng	95
70) o-Xylene	22.44	91	31382	0.621	ng	94
71) n-Nonane	22.71	43	15597	0.559	ng	92
72) 1,1,2,2-Tetrachloroethane	22.41	83	13651	0.610	ng	100
74) Cumene	23.20	105	41555	0.625	ng	97
75) alpha-Pinene	23.70	93	18803	0.579	ng	99
76) n-Propylbenzene	23.84	91	48768	0.603	ng	96
77) 3-Ethyltoluene	23.97	105	41779	0.669	ng	99
78) 4-Ethyltoluene	24.03	105	41282	0.659	ng	97
79) 1,3,5-Trimethylbenzene	24.12	105	34053	0.654	ng	97

866

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:20:02 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

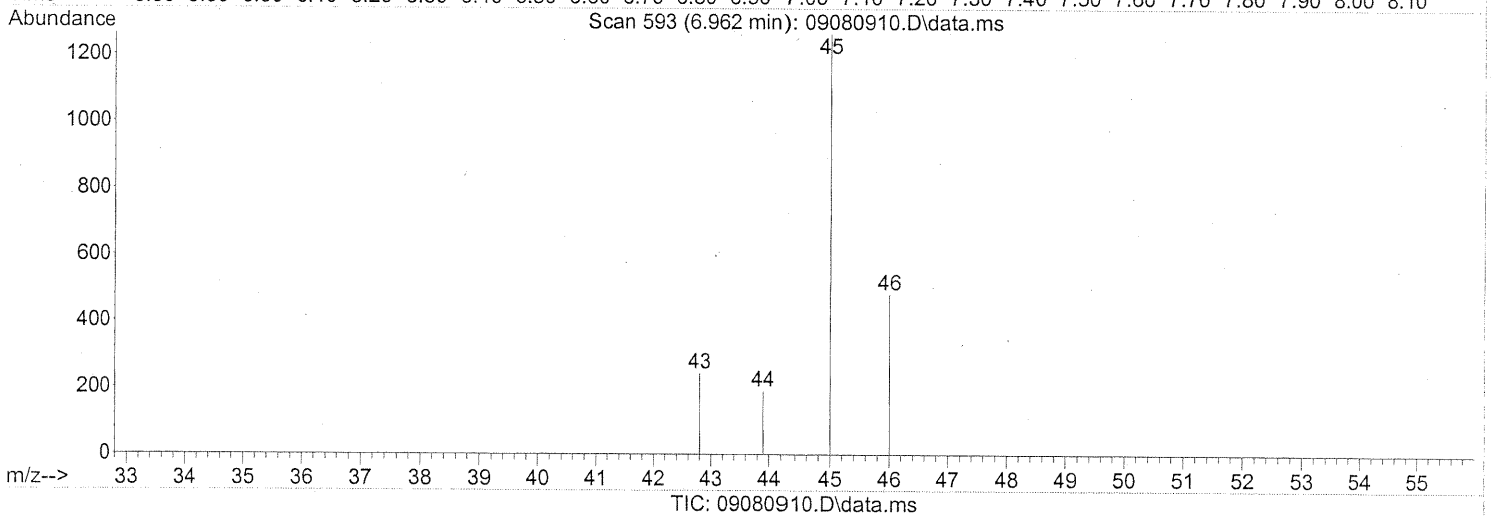
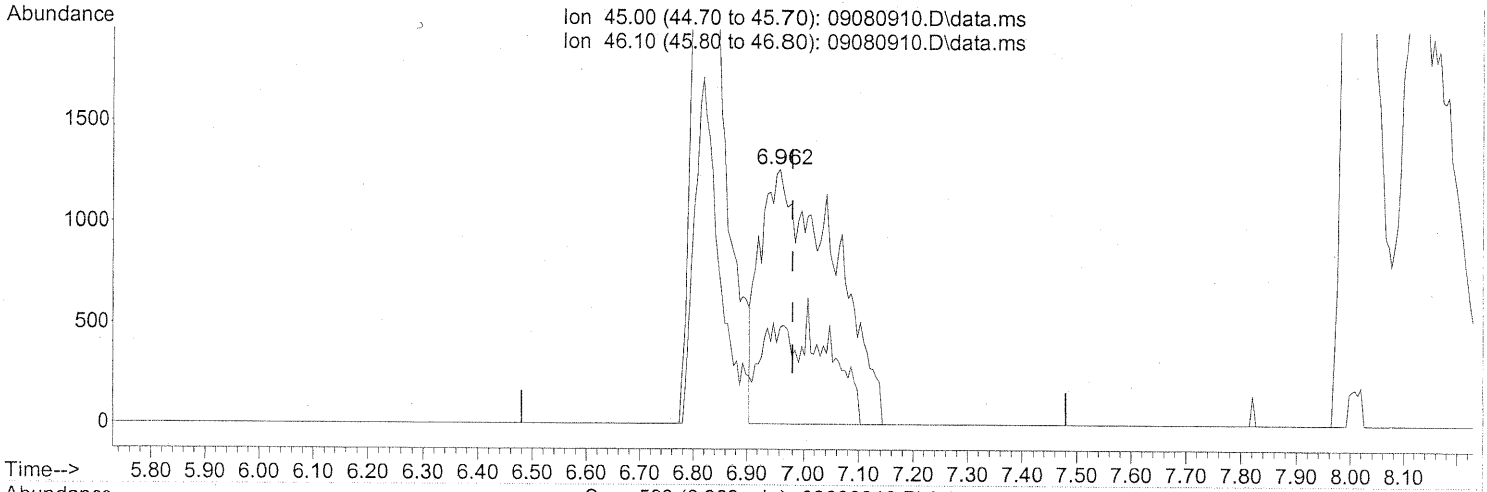
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	19115	0.671	ng	95
81) 2-Ethyltoluene	24.36	105	42123	0.633	ng	99
82) 1,2,4-Trimethylbenzene	24.63	105	34945	0.645	ng	98
83) n-Decane	24.75	57	18721	0.625	ng	95
84) Benzyl Chloride	24.80	91	26220	0.599	ng	97
85) 1,3-Dichlorobenzene	24.83	146	21328	0.709	ng	100
86) 1,4-Dichlorobenzene	24.91	146	21565	0.670	ng	100
87) sec-Butylbenzene	24.97	105	47185	0.654	ng	97
88) 4-Isopropyltoluene (p-...	25.16	119	44578	0.646	ng	97
89) 1,2,3-Trimethylbenzene	25.16	105	36196	0.667	ng	98
90) 1,2-Dichlorobenzene	25.33	146	19709	0.662	ng	100
91) d-Limonene	25.34	68	13197	0.624	ng	93
92) 1,2-Dibromo-3-Chloropr...	25.87	157	7126	0.741	ng	89
93) n-Undecane	26.29	57	21049	0.674	ng	94
94) 1,2,4-Trichlorobenzene	27.39	180	16100	0.756	ng	99
95) Naphthalene	27.53	128	49073	0.660	ng	99
96) n-Dodecane	27.52	57	20173	0.583	ng	93
97) Hexachlorobutadiene	27.96	225	10059	0.740	ng	99
98) Cyclohexanone	22.02	55	11653	0.546	ng	93
99) tert-Butylbenzene	24.63	119	35222	0.654	ng	98
100) n-Butylbenzene	25.67	91	38091	0.674	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.962min (-0.019) 1.05ng
 response 11545

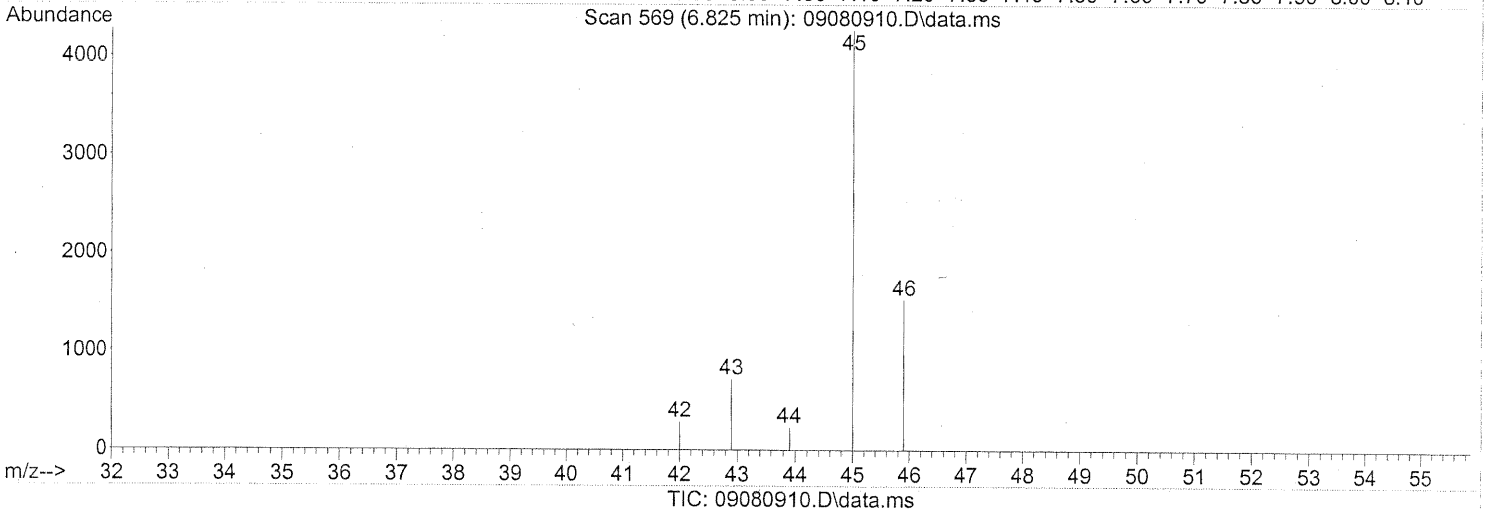
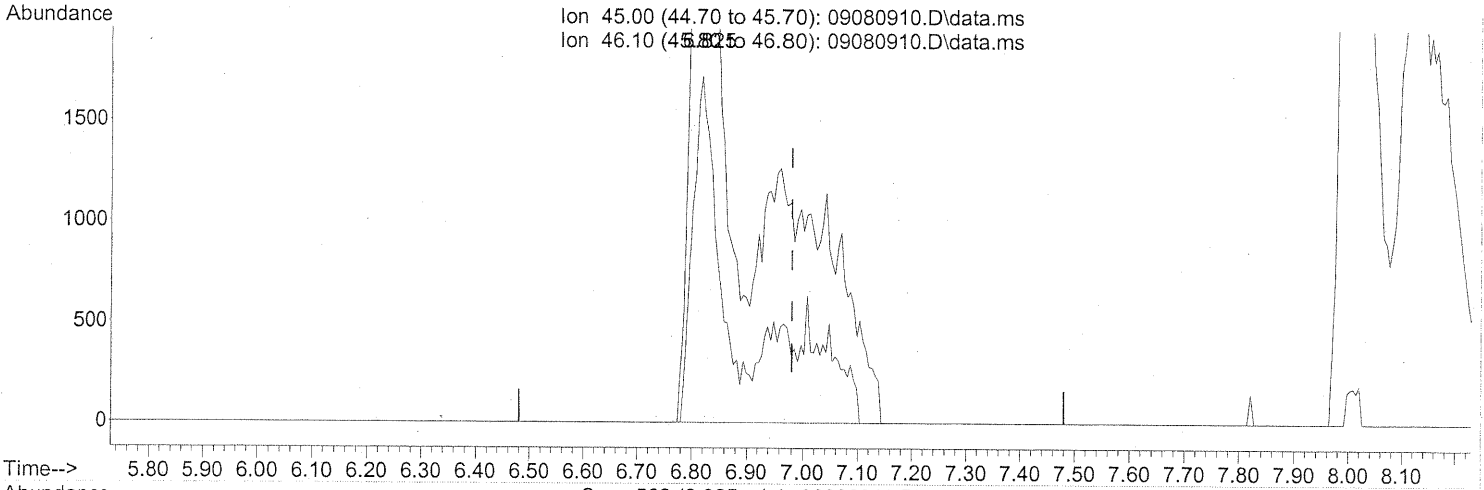
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	16.60#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.825min (-0.155) 2.39ng m
 response 26351

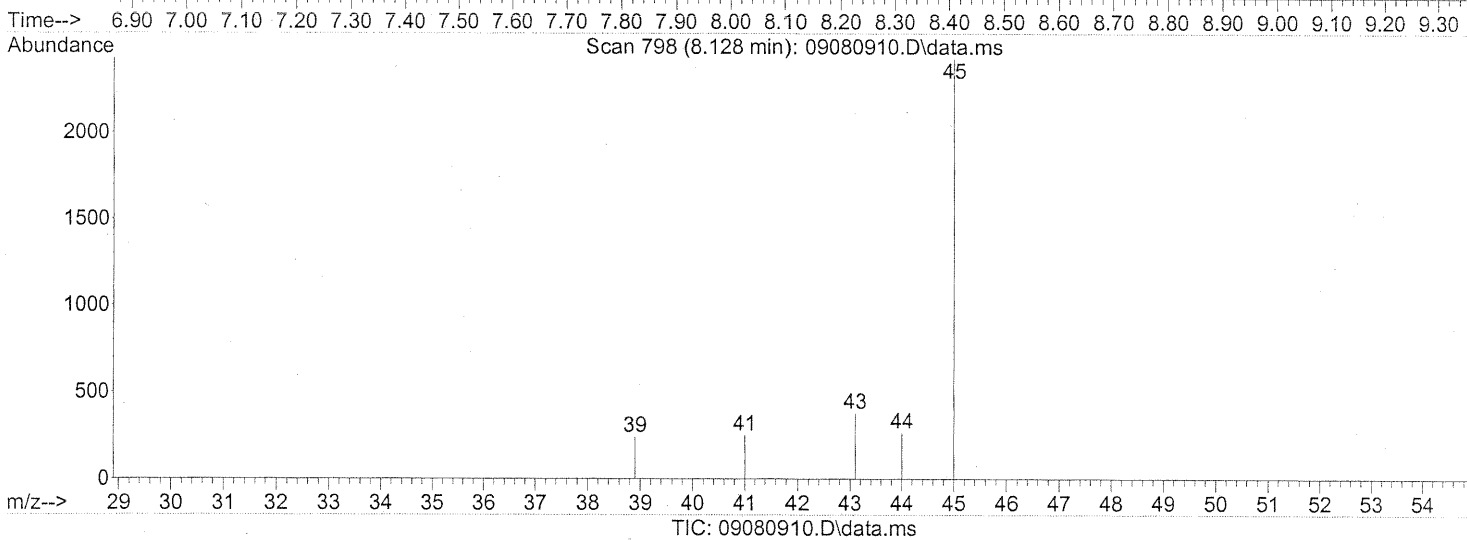
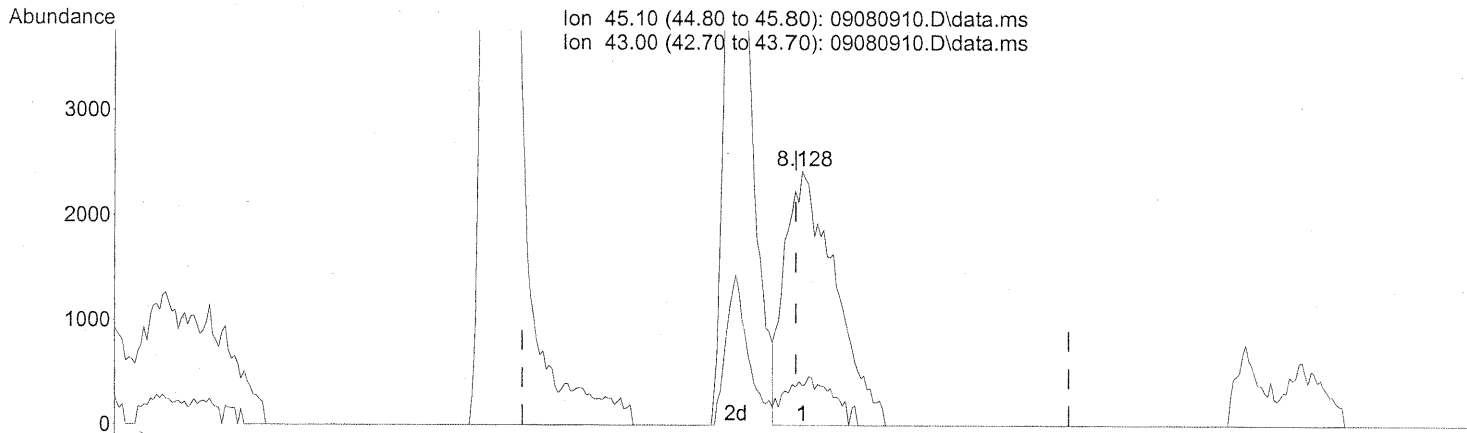
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	7.27#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
LH 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.128min (+0.011) 0.41ng

response 15172

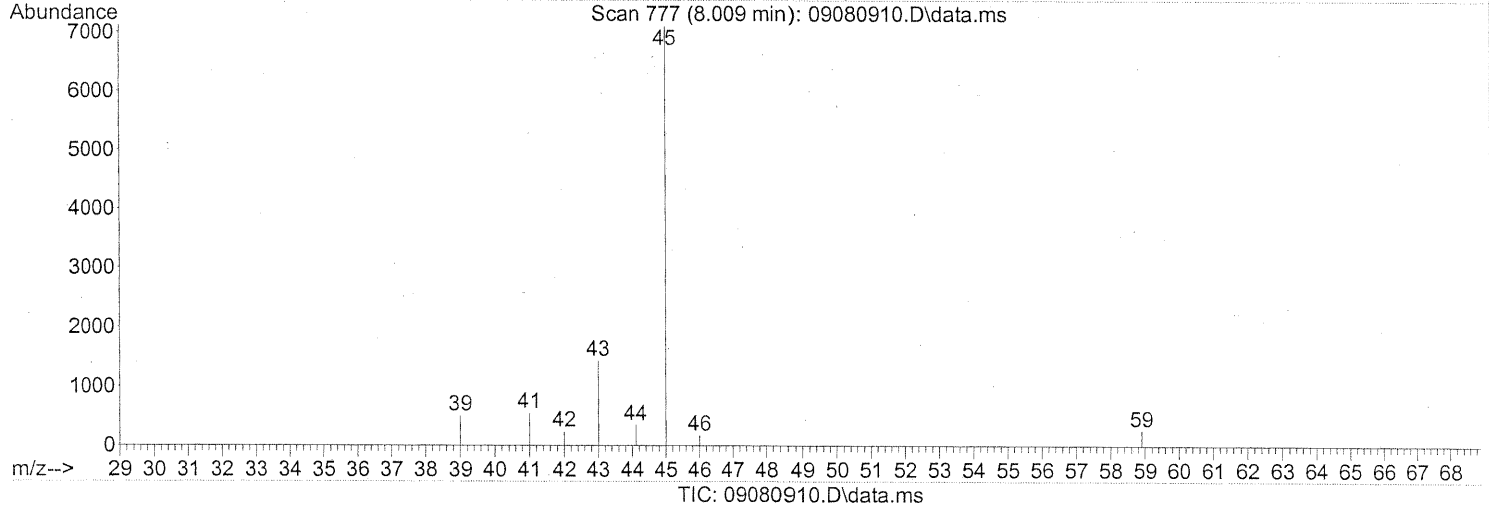
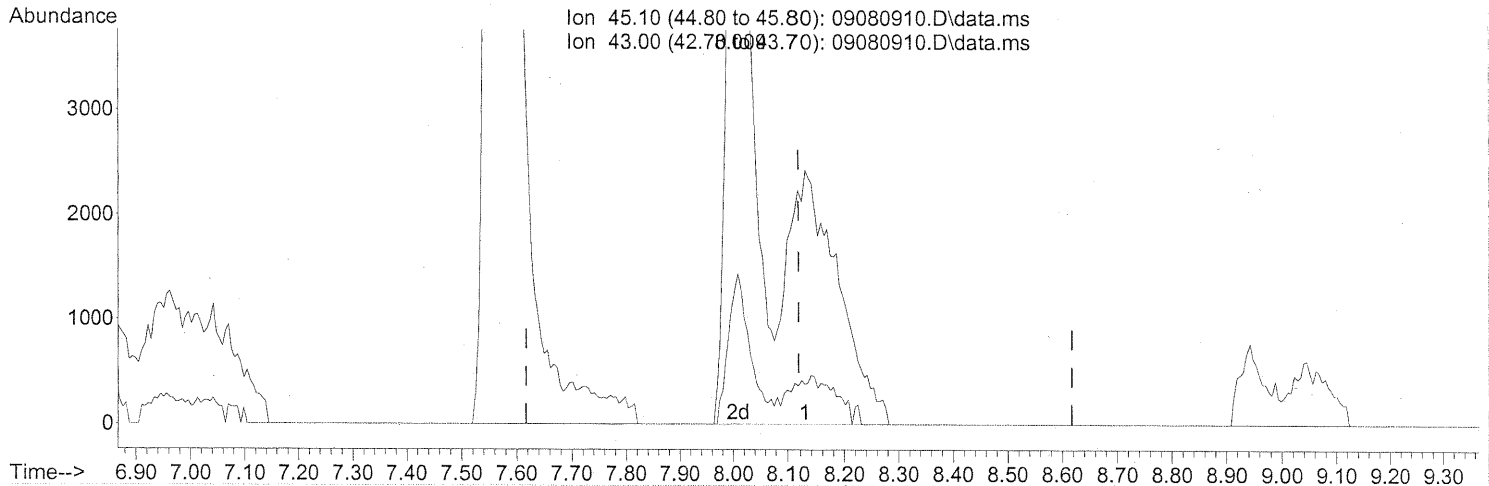
SP

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080910.D
Acq On : 8 Sep 2009 19:16
Operator : LH
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.009min (-0.109) 1.01ng m

response 37602

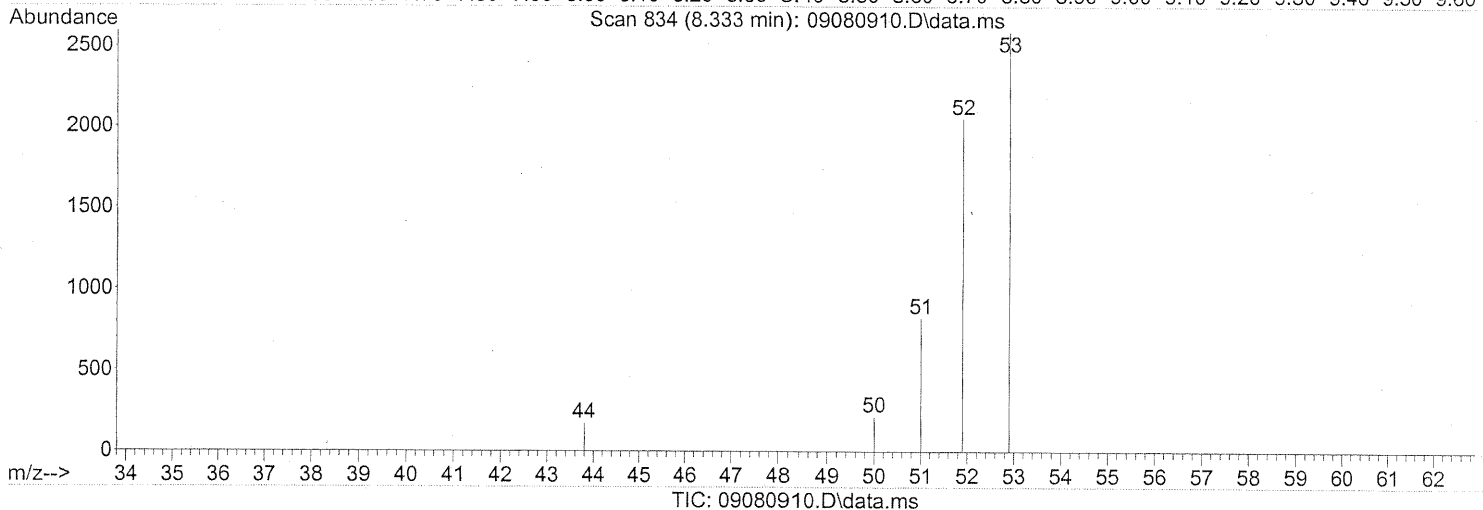
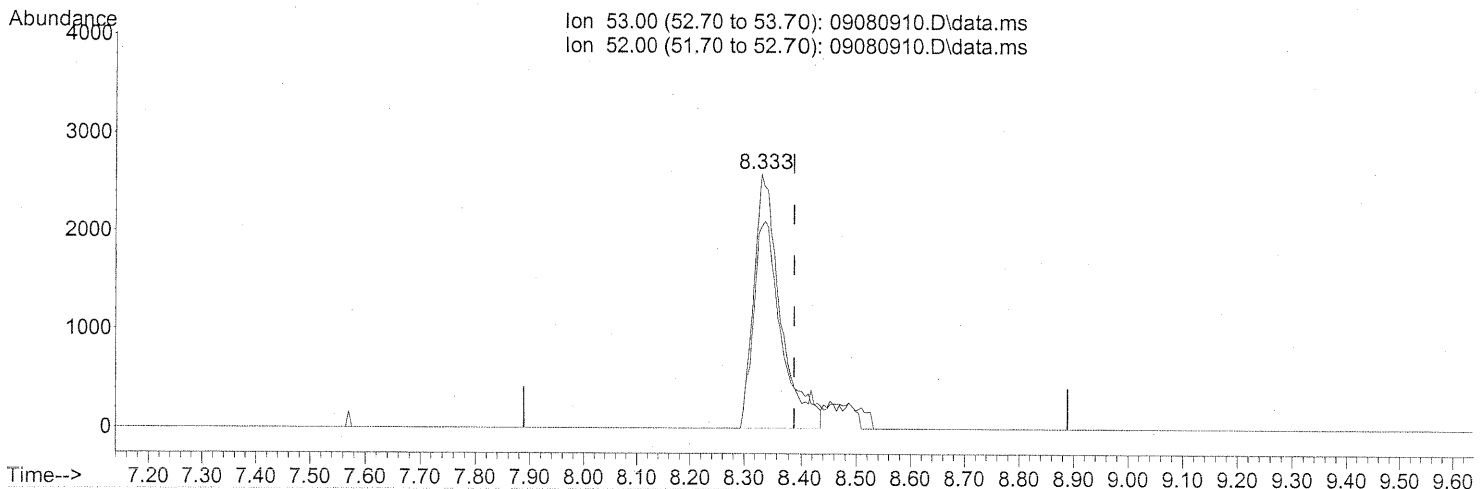
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	6.52
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
in 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.333min (-0.056) 0.47ng
 response 8684

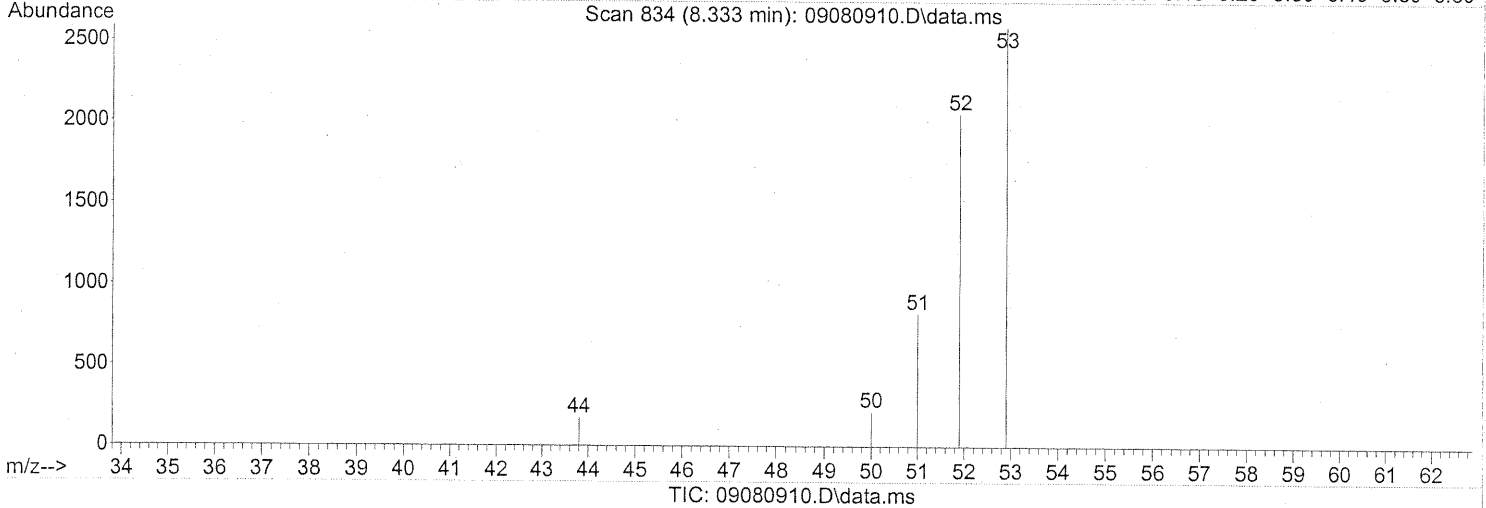
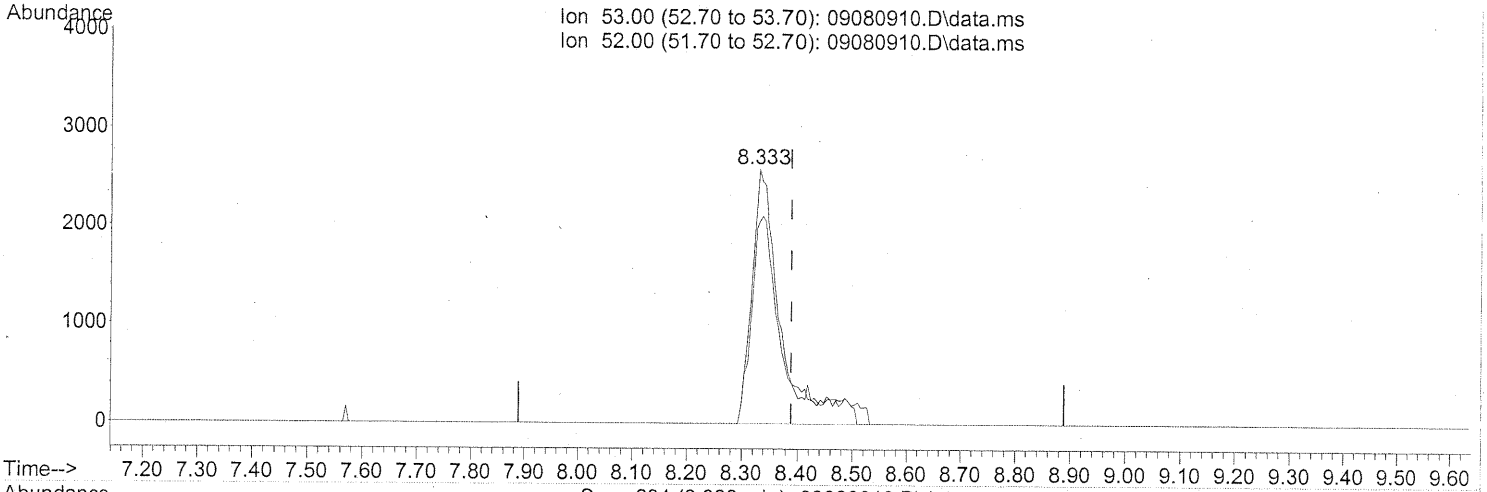
Ion	Exp%	Act%
53.00	100	100
52.00	84.30	95.43
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080910.D
Acq On : 8 Sep 2009 19:16
Operator : LH
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.333min (-0.056) 0.54ng m
response 9892

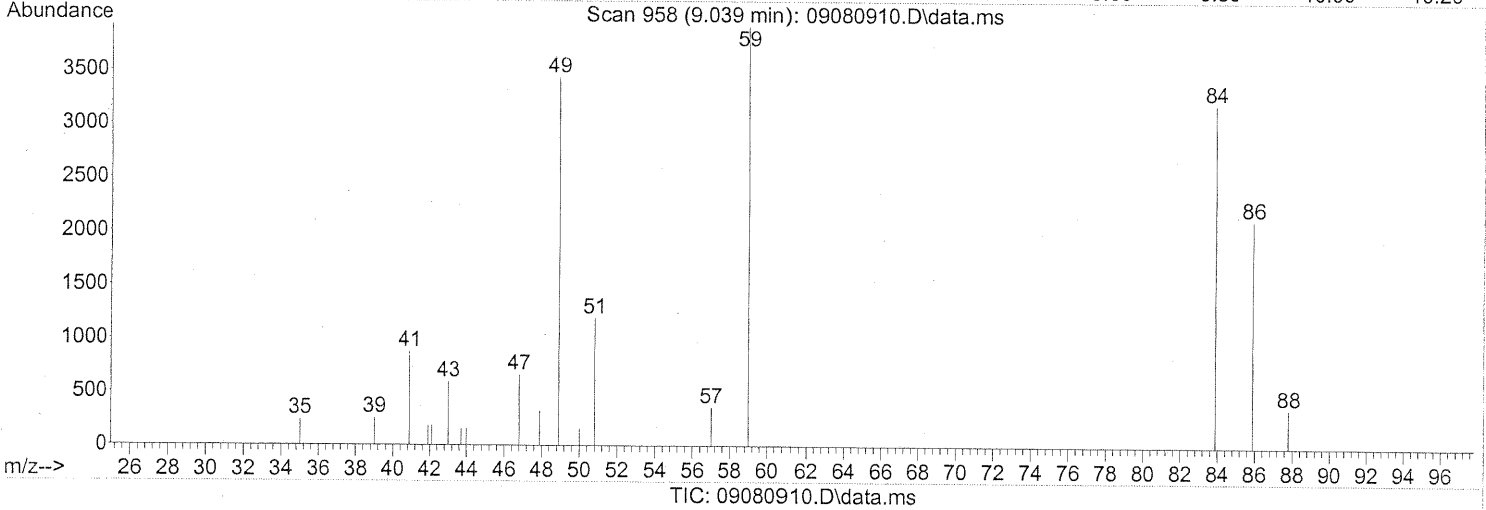
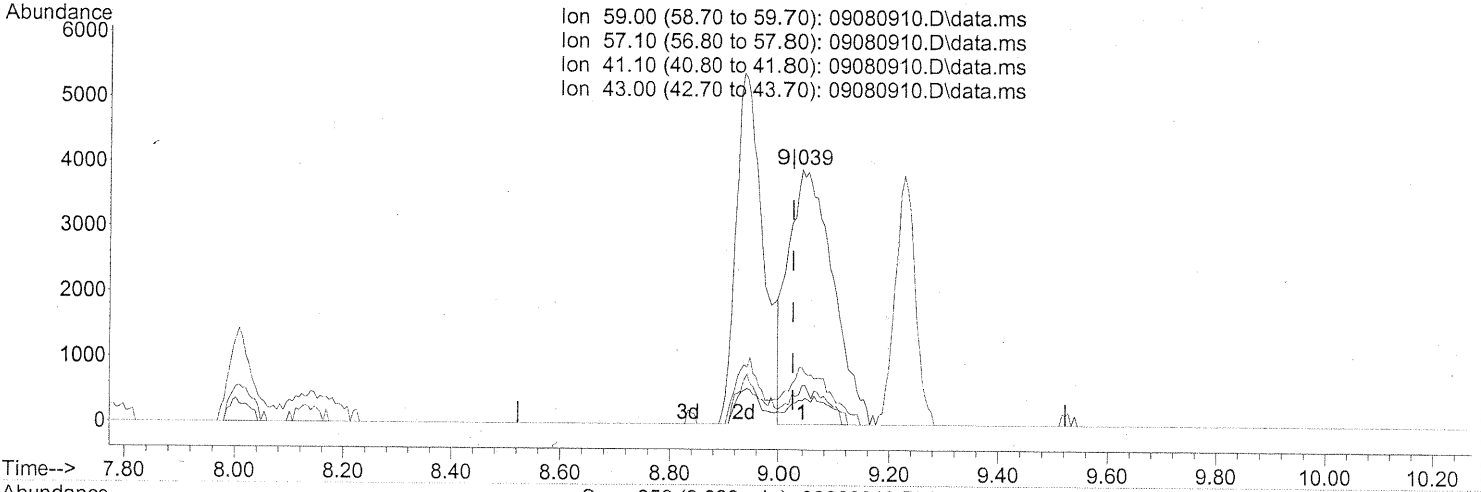
Ion	Exp%	Act%
53.00	100	100
52.00	84.30	83.77
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
in 9/9/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080910.D
Acq On : 8 Sep 2009 19:16
Operator : LH
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol) (T)

9.039min (+0.016) 0.58ng

SP

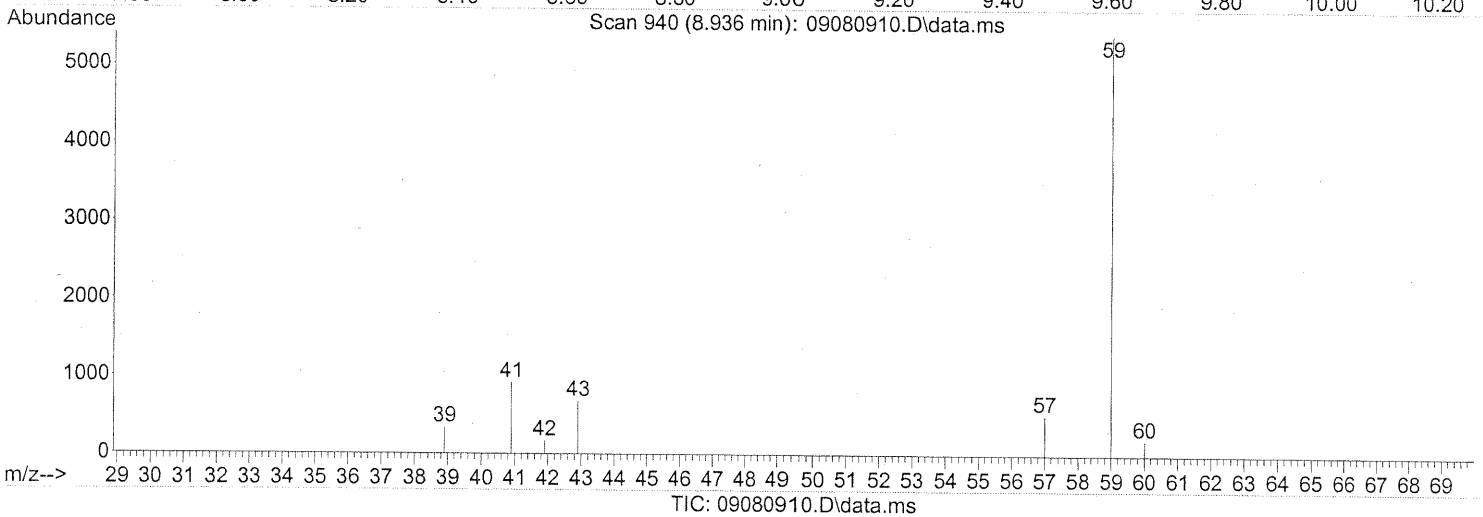
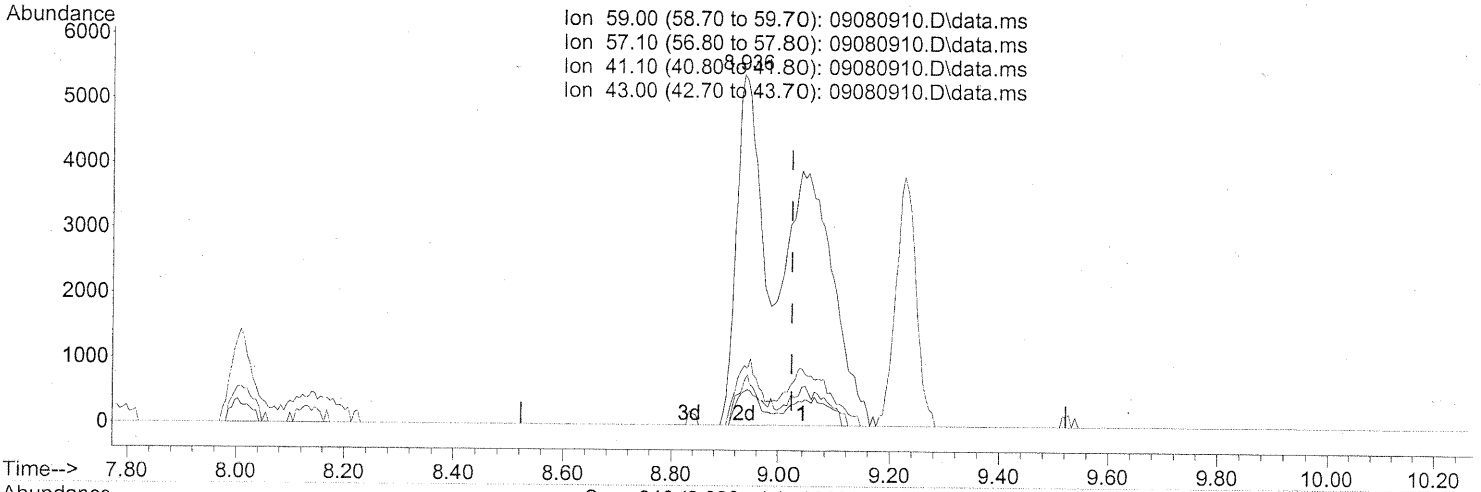
response 21607

Ion	Exp%	Act%
59.00	100	100
57.10	9.50	0.00
41.10	19.50	20.54
43.00	12.90	12.69

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080910.D
 Acq On : 8 Sep 2009 19:16
 Operator : LH
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:57 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol) (T)

8.936min (-0.087) 1.09ng m

response 40449

Ion	Exp%	Act%
59.00	100	100
57.10	9.50	0.00
41.10	19.50	10.97
43.00	12.90	6.78

SP → IC
 in 9/9/09

875

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:21:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

in 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	312270	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.17	114	1487535	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.06	82	639678	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.38	65	429390	21.676	ng	-0.01
Spiked Amount	25.000		Recovery	=	86.72%	
57) Toluene-d8 (SS2)	18.63	98	1602862	26.630	ng	-0.02
Spiked Amount	25.000		Recovery	=	106.52%	
73) Bromofluorobenzene (SS3)	23.02	174	558541	26.420	ng	0.00
Spiked Amount	25.000		Recovery	=	105.68%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.58	42	13633	0.829	ng	98
3) Dichlorodifluoromethan...	4.73	85	27218	0.927	ng	99
4) Chloromethane	5.04	50	20882	0.850	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	16524	1.036	ng	99
6) Vinyl Chloride	5.48	62	20173	0.843	ng	100
7) 1,3-Butadiene	5.74	54	16547	1.006	ng	96
8) Bromomethane	6.21	94	13120	0.936	ng	100
9) Chloroethane	6.54	64	10017	0.873	ng	98
10) Ethanol	6.82	45	47339m	4.274	ng	
11) Acetonitrile	7.16	41	25511	0.897	ng	89
12) Acrolein	7.36	56	7002	0.859	ng	99
13) Acetone	7.56	58	48690	4.103	ng	# 84
14) Trichlorofluoromethane	7.84	101	25409	0.980	ng	99
15) 2-Propanol (Isopropanol)	8.01	45	68200m	1.826	ng	
16) Acrylonitrile	8.33	53	18749m	1.015	ng	
17) 1,1-Dichloroethene	8.83	96	14985	1.053	ng	# 81
18) 2-Methyl-2-Propanol (t...	8.94	59	71946m	1.919	ng	
19) Methylene Chloride	9.04	84	15174	0.951	ng	82
20) 3-Chloro-1-propene (Al...	9.23	41	18116	0.892	ng	93
21) Trichlorotrifluoroethane	9.48	151	11985	0.983	ng	87
22) Carbon Disulfide	9.43	76	54532	0.947	ng	100
23) trans-1,2-Dichloroethene	10.46	61	18940	0.918	ng	87
24) 1,1-Dichloroethane	10.76	63	24435	0.924	ng	100
25) Methyl tert-Butyl Ether	10.87	73	37727	0.880	ng	97
26) Vinyl Acetate	11.02	86	10779	3.731	ng	# 68
27) 2-Butanone (MEK)	11.35	72	9862	1.044	ng	# 80
28) cis-1,2-Dichloroethene	12.00	61	19441	0.950	ng	85
29) Diisopropyl Ether	12.35	87	11374	0.945	ng	# 56
30) Ethyl Acetate	12.36	61	9904	1.946	ng	92
31) n-Hexane	12.36	57	19272	0.835	ng	98

877

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:21:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-T015 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.44	83	24281	0.958	ng	99
34) Tetrahydrofuran (THF)	13.02	72	8742	0.934	ng #	88
35) Ethyl tert-Butyl Ether	13.14	87	16283	0.895	ng #	81
36) 1,2-Dichloroethane	13.54	62	16722	0.917	ng	100
38) 1,1,1-Trichloroethane	13.93	97	20178	0.952	ng	95
39) Isopropyl Acetate	14.49	61	17665	1.870	ng	99
40) 1-Butanol	14.52	56	28283	2.086	ng #	8
41) Benzene	14.62	78	57592	0.963	ng	100
42) Carbon Tetrachloride	14.85	117	17804	1.020	ng	98
43) Cyclohexane	15.05	84	42446	1.907	ng	89
44) tert-Amyl Methyl Ether	15.53	73	39744	0.931	ng	96
45) 1,2-Dichloropropane	15.86	63	13770	0.929	ng	100
46) Bromodichloromethane	16.12	83	18677	1.024	ng	100
47) Trichloroethene	16.20	130	17103	0.984	ng	99
48) 1,4-Dioxane	16.16	88	13112	1.111	ng	88
49) 2,2,4-Trimethylpentane...	16.29	57	58146	0.907	ng	97
50) Methyl Methacrylate	16.48	100	13575	2.351	ng #	77
51) n-Heptane	16.66	71	15080	0.977	ng	94
52) cis-1,3-Dichloropropene	17.41	75	21254	0.958	ng	99
53) 4-Methyl-2-pentanone	17.46	58	13372	1.064	ng	87
54) trans-1,3-Dichloropropene	18.13	75	20966	1.081	ng	98
55) 1,1,2-Trichloroethane	18.37	97	14728	1.066	ng	93
58) Toluene	18.76	91	67171	1.154	ng	99
59) 2-Hexanone	19.08	43	32769	1.071	ng	97
60) Dibromochloromethane	19.30	129	17284	1.268	ng	99
61) 1,2-Dibromoethane	19.63	107	16482	1.155	ng	100
62) n-Butyl Acetate	19.91	43	36828	1.054	ng	95
63) n-Octane	20.07	57	12522	1.037	ng	91
64) Tetrachloroethene	20.25	166	19349	1.182	ng	99
65) Chlorobenzene	21.12	112	45066	1.205	ng	99
66) Ethylbenzene	21.60	91	72787	1.128	ng	98
67) m- & p-Xylenes	21.84	91	111617	2.216	ng	95
68) Bromoform	21.92	173	15349	1.203	ng	99
69) Styrene	22.29	104	46217	1.199	ng	96
70) o-Xylene	22.44	91	57605	1.128	ng	95
71) n-Nonane	22.71	43	28661	1.016	ng	94
72) 1,1,2,2-Tetrachloroethane	22.40	83	25060	1.108	ng	99
74) Cumene	23.20	105	76513	1.138	ng	98
75) alpha-Pinene	23.70	93	35276	1.074	ng	99
76) n-Propylbenzene	23.85	91	89977	1.100	ng	96
77) 3-Ethyltoluene	23.97	105	76864	1.217	ng	98
78) 4-Ethyltoluene	24.03	105	75053	1.185	ng	98
79) 1,3,5-Trimethylbenzene	24.12	105	62677	1.190	ng	94

878

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:21:06 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

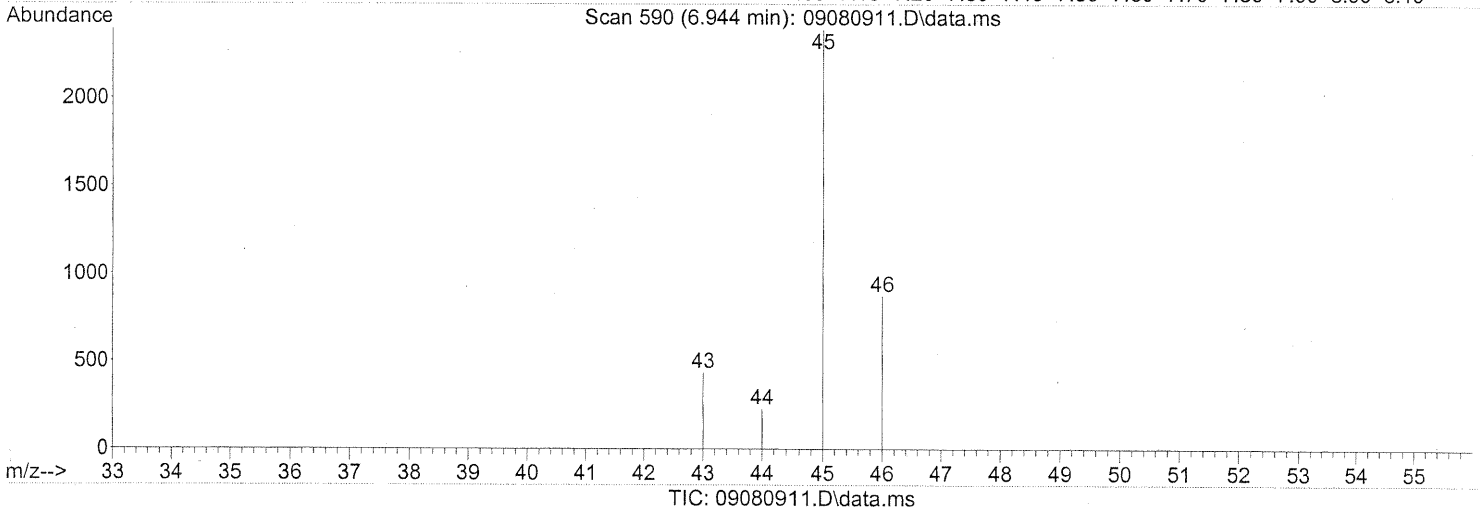
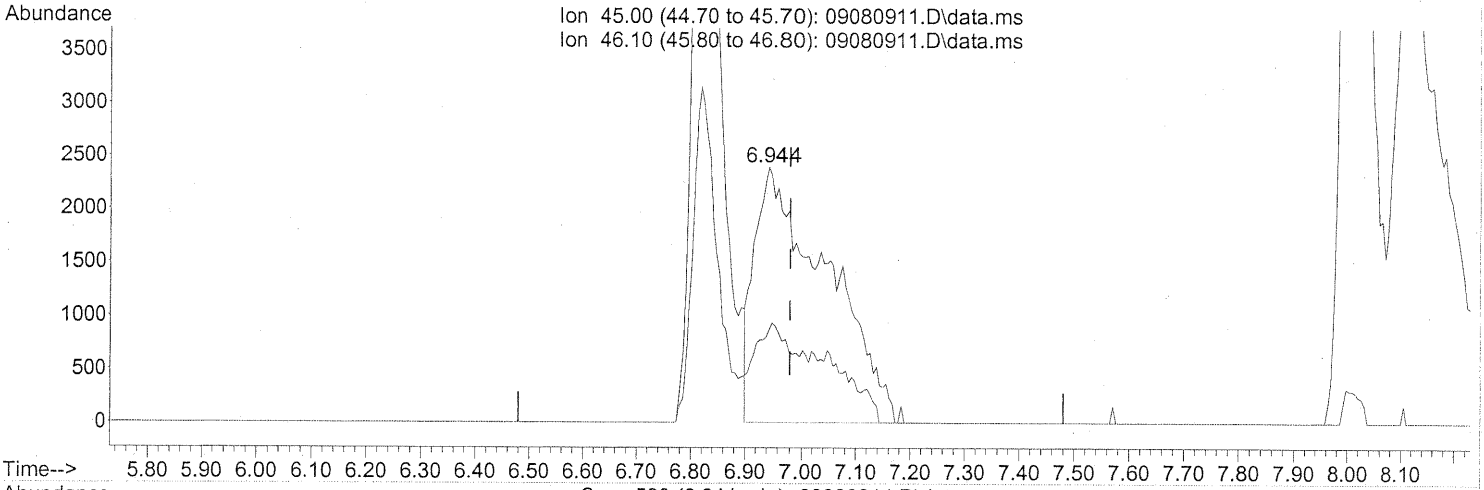
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	35507	1.233	ng	96
81) 2-Ethyltoluene	24.36	105	75713	1.125	ng	98
82) 1,2,4-Trimethylbenzene	24.63	105	63765	1.164	ng	97
83) n-Decane	24.75	57	33784	1.115	ng	96
84) Benzyl Chloride	24.80	91	49083	1.109	ng	95
85) 1,3-Dichlorobenzene	24.83	146	38477	1.265	ng	99
86) 1,4-Dichlorobenzene	24.91	146	39327	1.208	ng	100
87) sec-Butylbenzene	24.97	105	84690	1.161	ng	98
88) 4-Isopropyltoluene (p-...	25.16	119	80216	1.150	ng	97
89) 1,2,3-Trimethylbenzene	25.16	105	64107	1.169	ng	95
90) 1,2-Dichlorobenzene	25.33	146	36354	1.208	ng	100
91) d-Limonene	25.34	68	24394	1.140	ng	91
92) 1,2-Dibromo-3-Chloropr...	25.87	157	13354	1.373	ng	83
93) n-Undecane	26.28	57	36122	1.144	ng	95
94) 1,2,4-Trichlorobenzene	27.39	180	29551	1.373	ng	99
95) Naphthalene	27.53	128	90598	1.205	ng	100
96) n-Dodecane	27.52	57	38341	1.097	ng	90
97) Hexachlorobutadiene	27.96	225	18408	1.339	ng	100
98) Cyclohexanone	22.02	55	21072	0.976	ng	91
99) tert-Butylbenzene	24.63	119	64235	1.179	ng	99
100) n-Butylbenzene	25.67	91	68466	1.198	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.944min (-0.036) 1.96ng
 response 21721

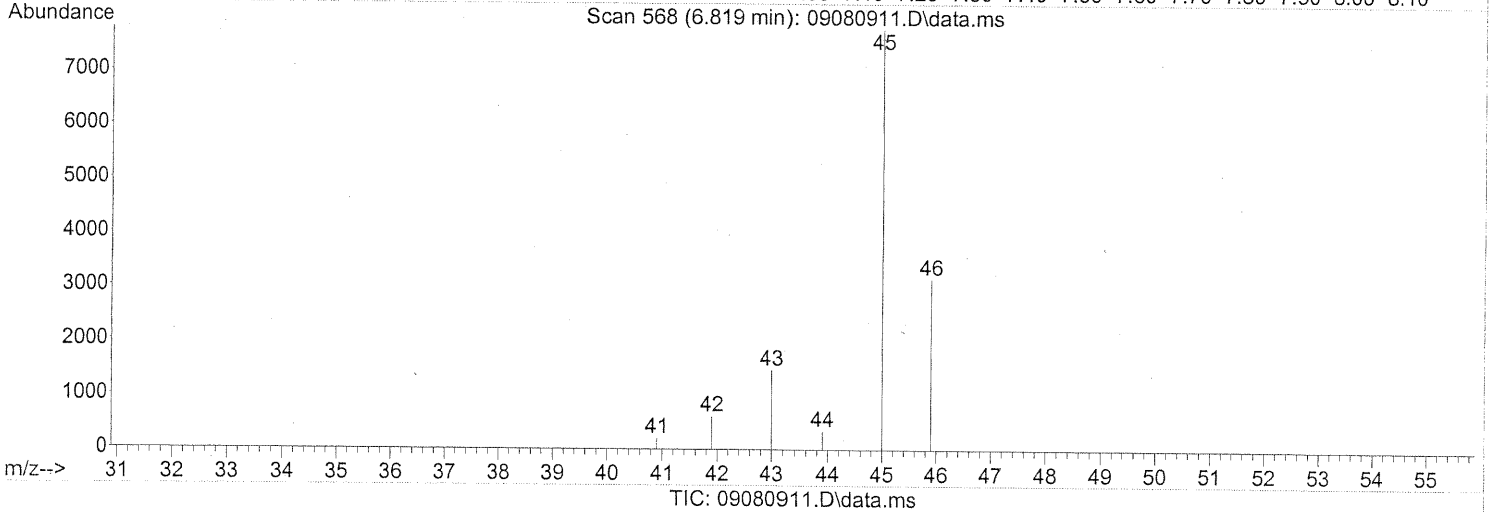
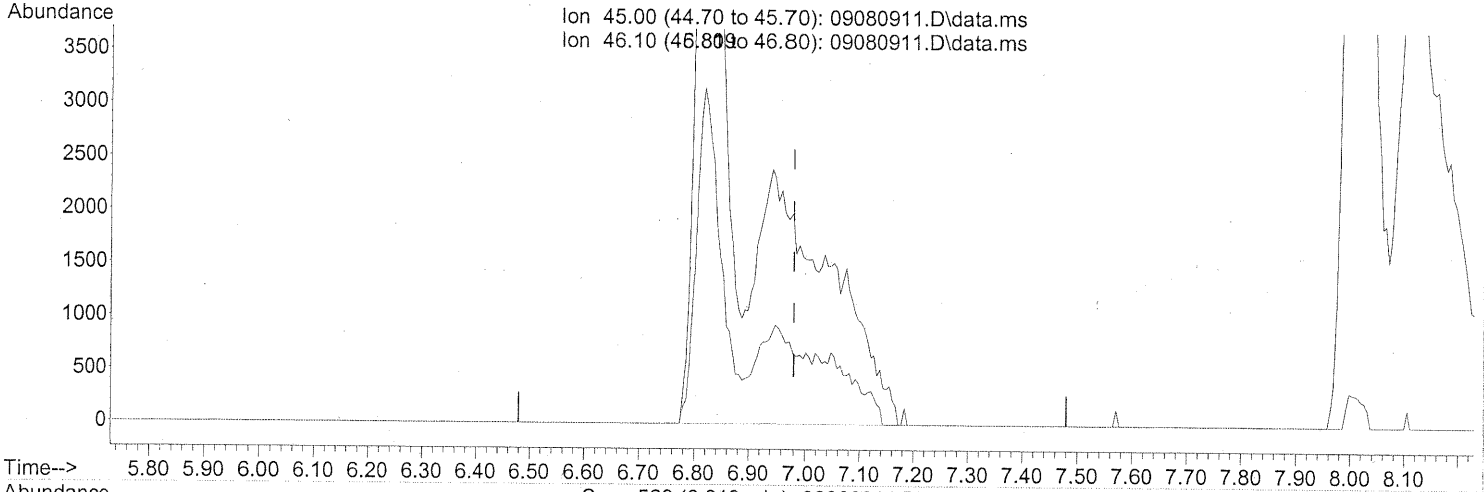
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.06
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.819min (-0.161) 4.27ng m
 response 47339

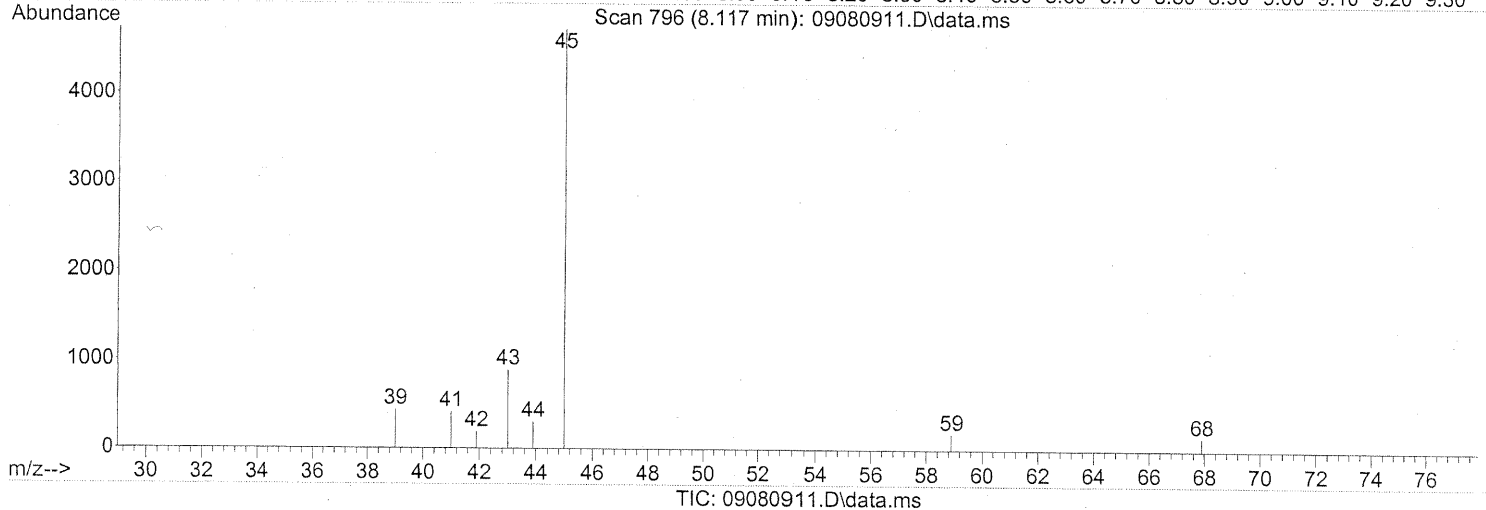
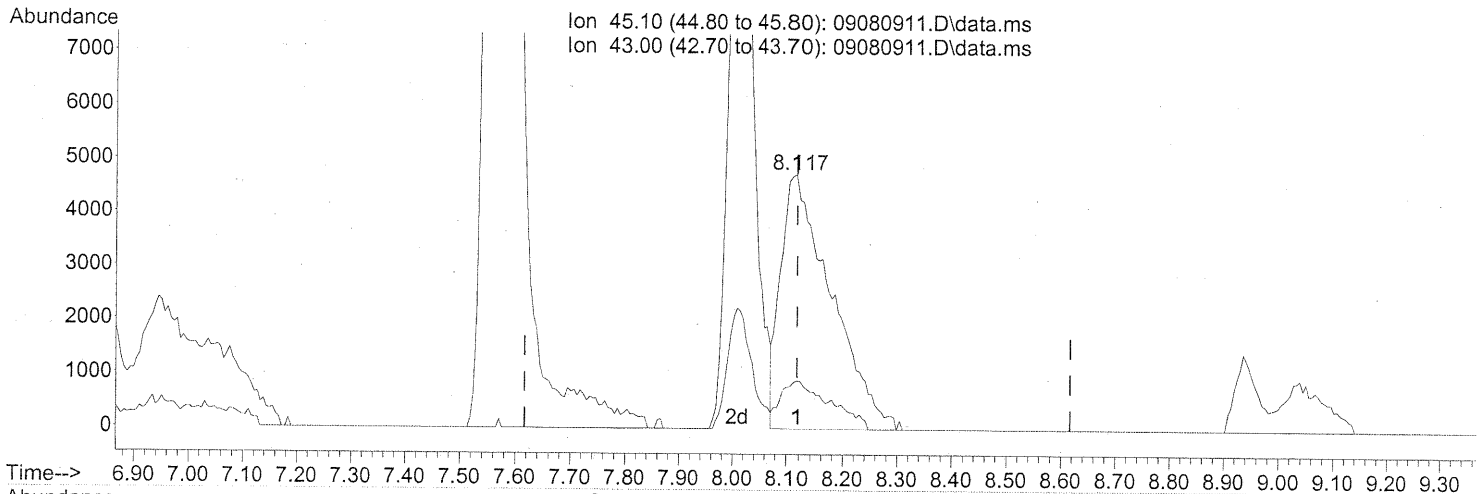
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	17.46#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
WH 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080911.D
Acq On : 8 Sep 2009 19:54
Operator : LH
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.117min (-0.001) 0.79ng

response 29383

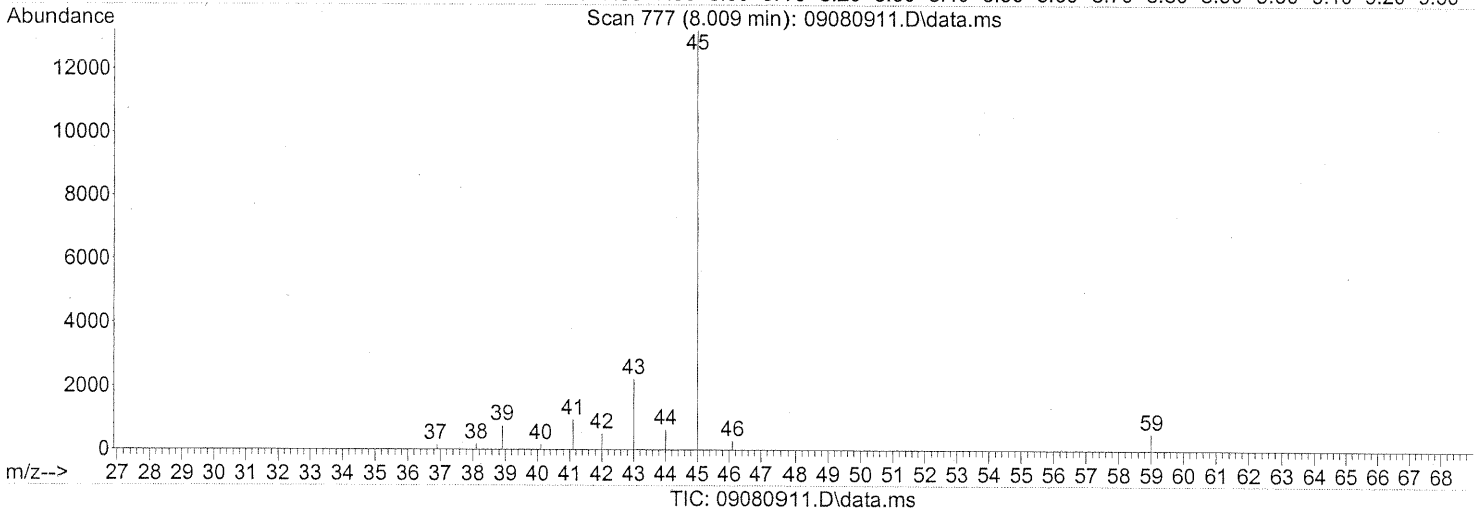
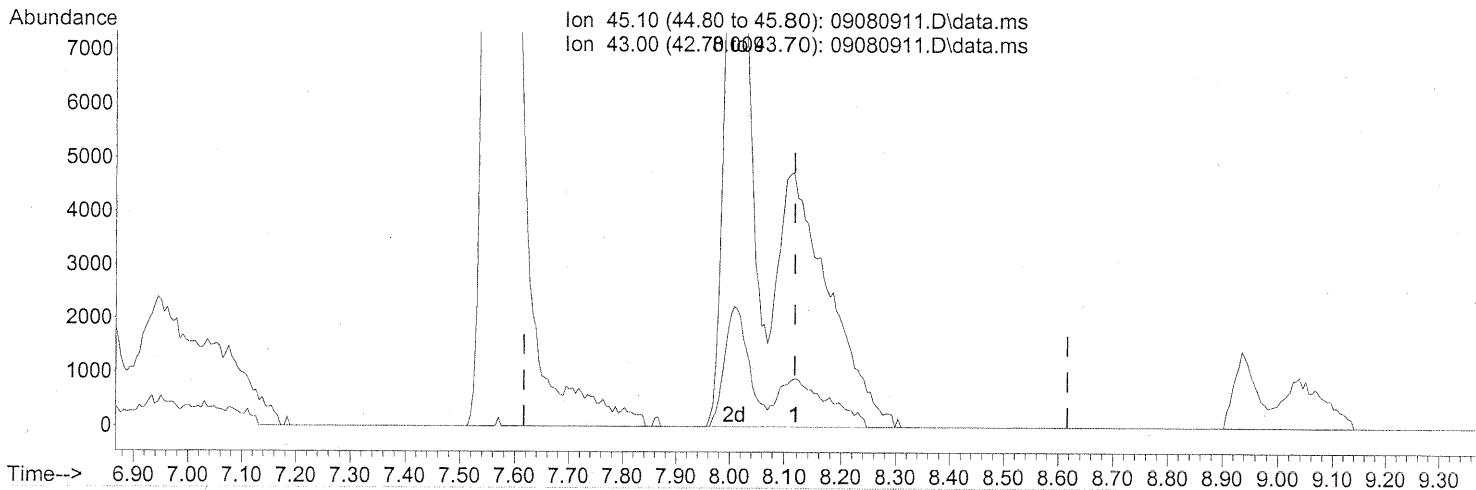
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	18.54
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.009min (-0.109) 1.83ng m

response 68200

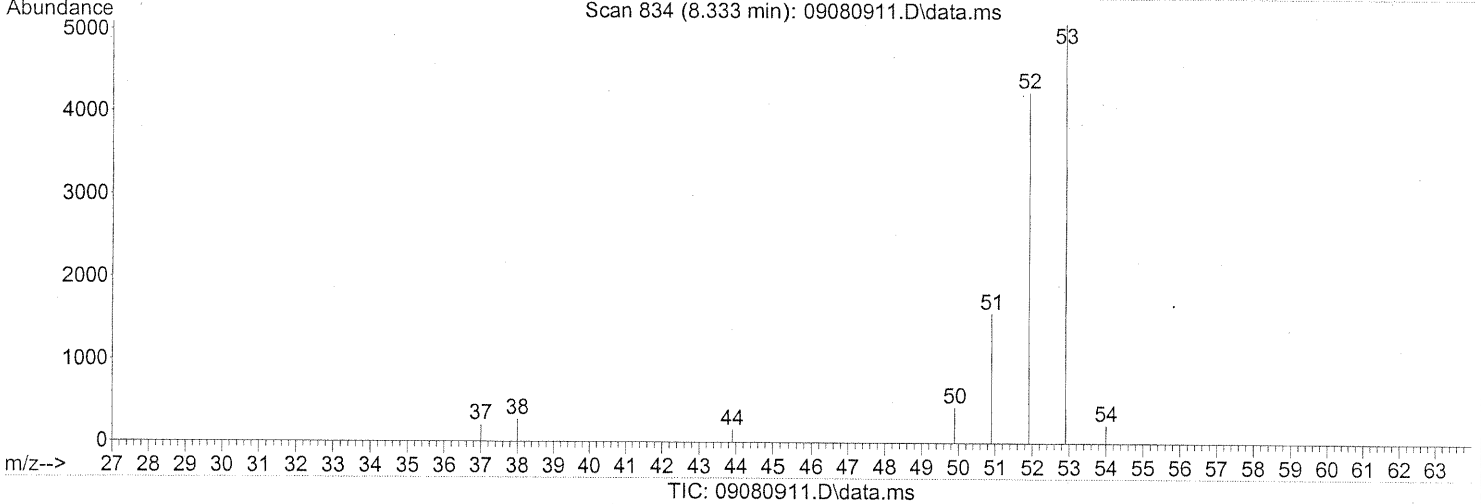
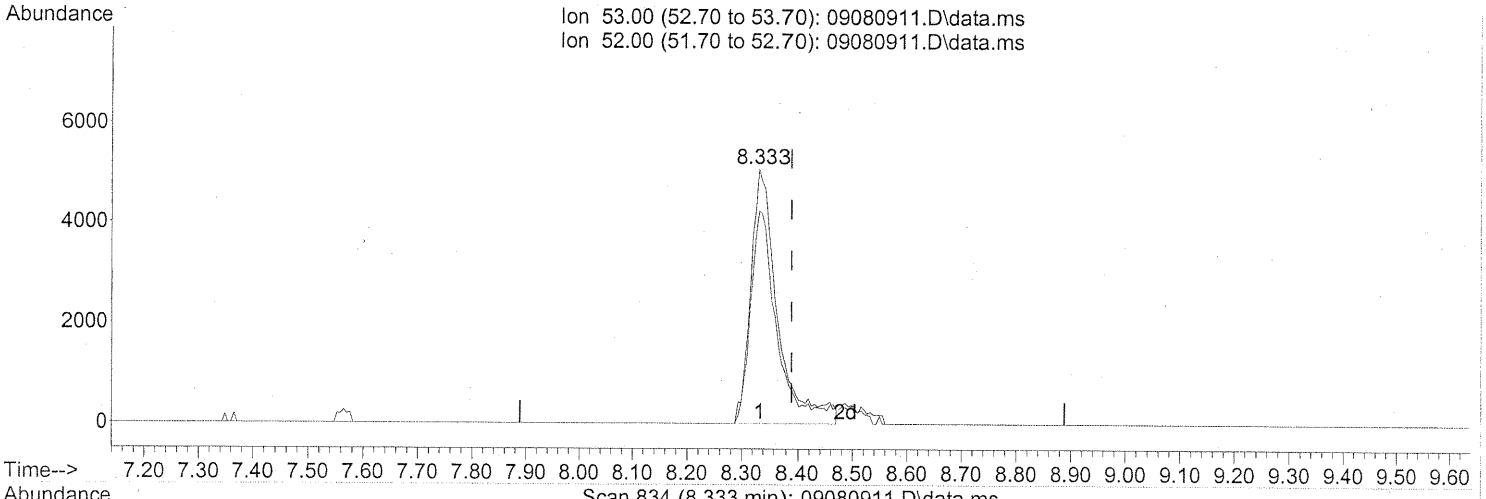
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	7.99
0.00	0.00	0.00
0.00	0.00	0.00

*SP → IC
 in 9/9/09*

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080911.D
Acq On : 8 Sep 2009 19:54
Operator : LH
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)
8.333min (-0.056) 0.94ng
response 17317

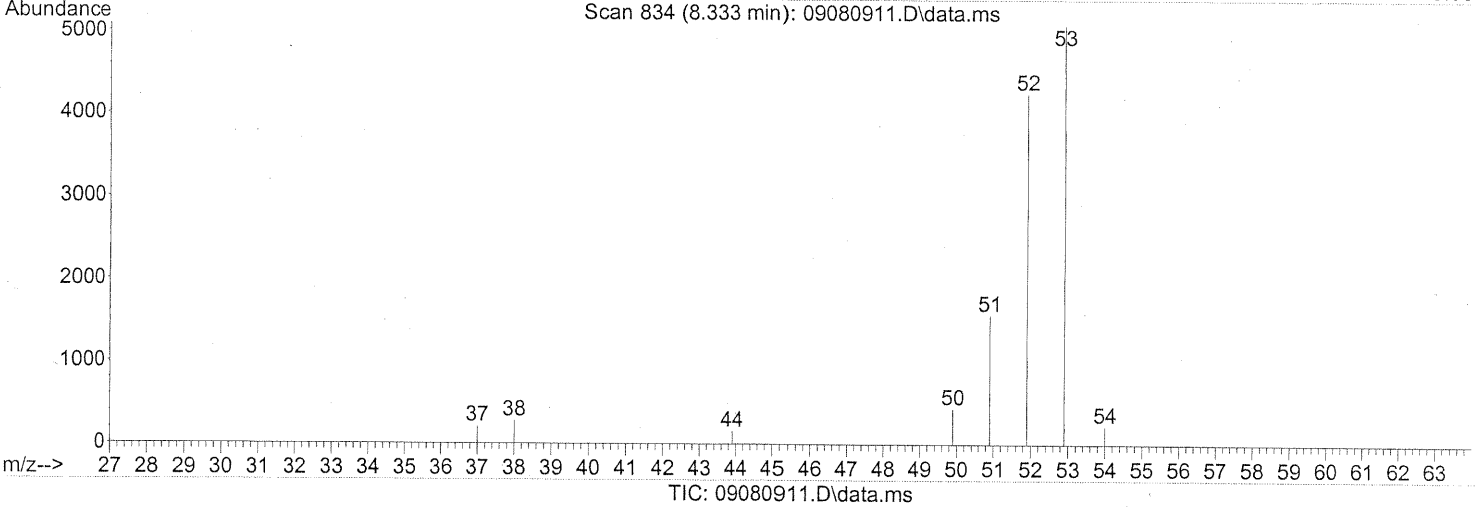
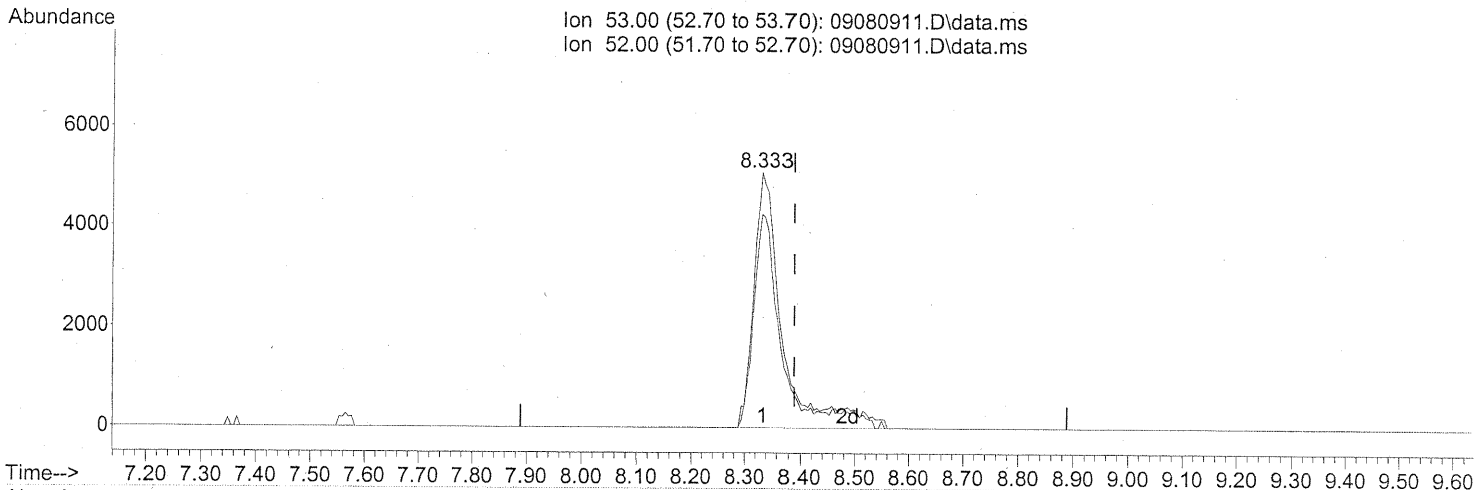
Ion	Exp%	Act%
53.00	100	100
52.00	84.30	80.95
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(16) Acrylonitrile (T)
 8.333min (-0.056) 1.01ng m
 response 18749

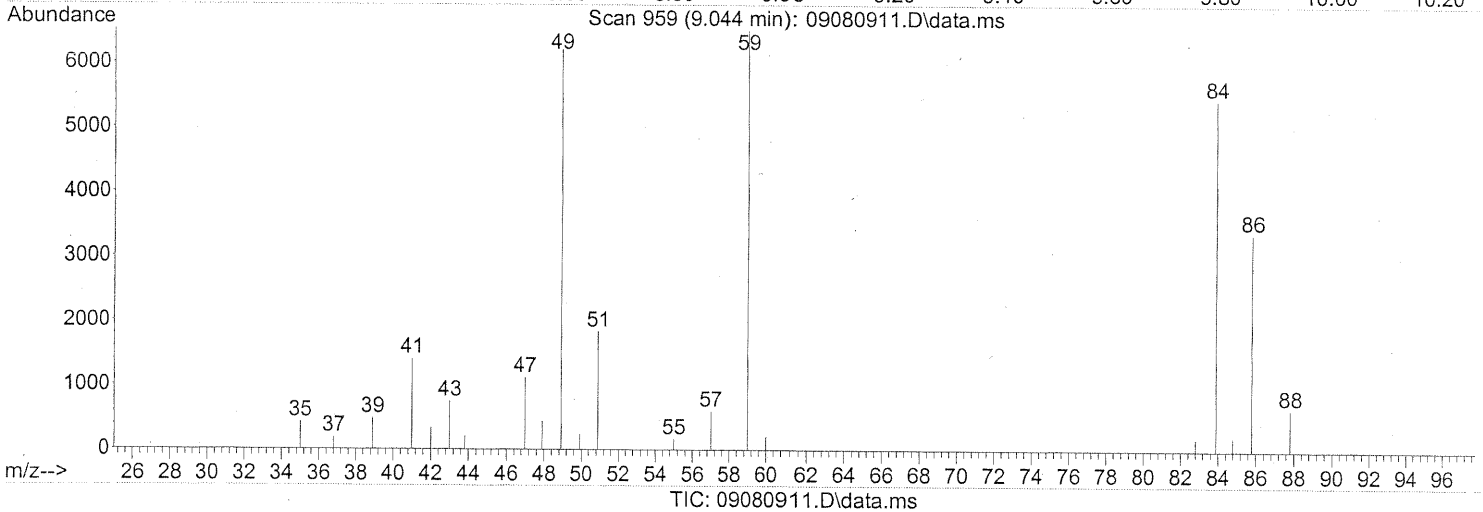
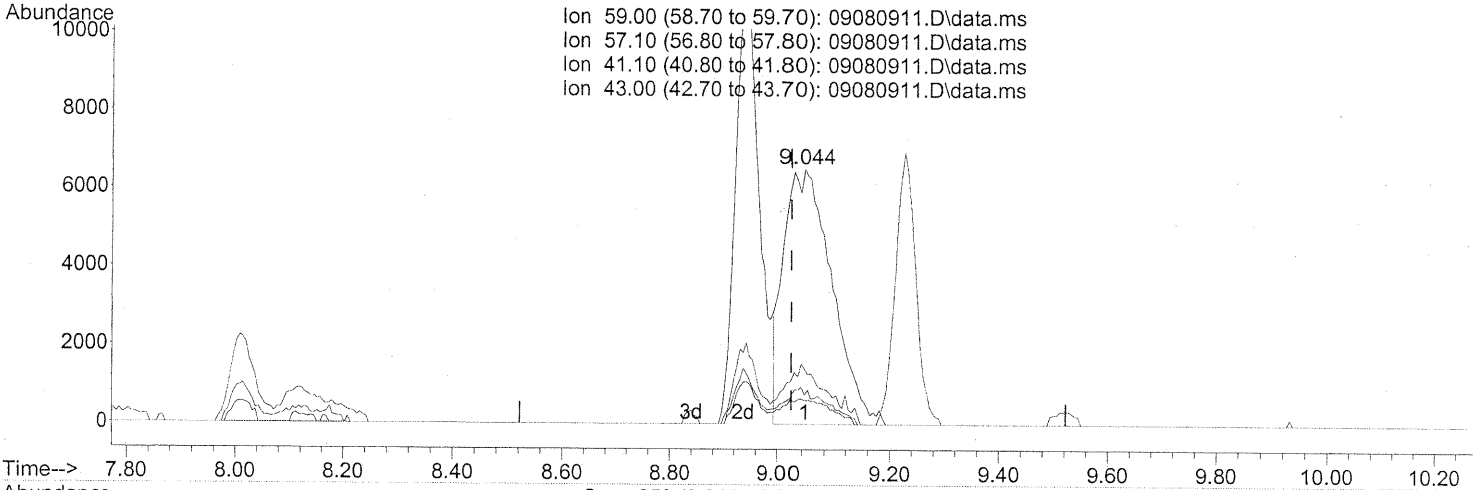
Ion	Exp%	Act%
53.00	100	100
52.00	84.30	74.77
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
M 9/9/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol) (T)

9.044min (+0.022) 1.01ng

response 37784

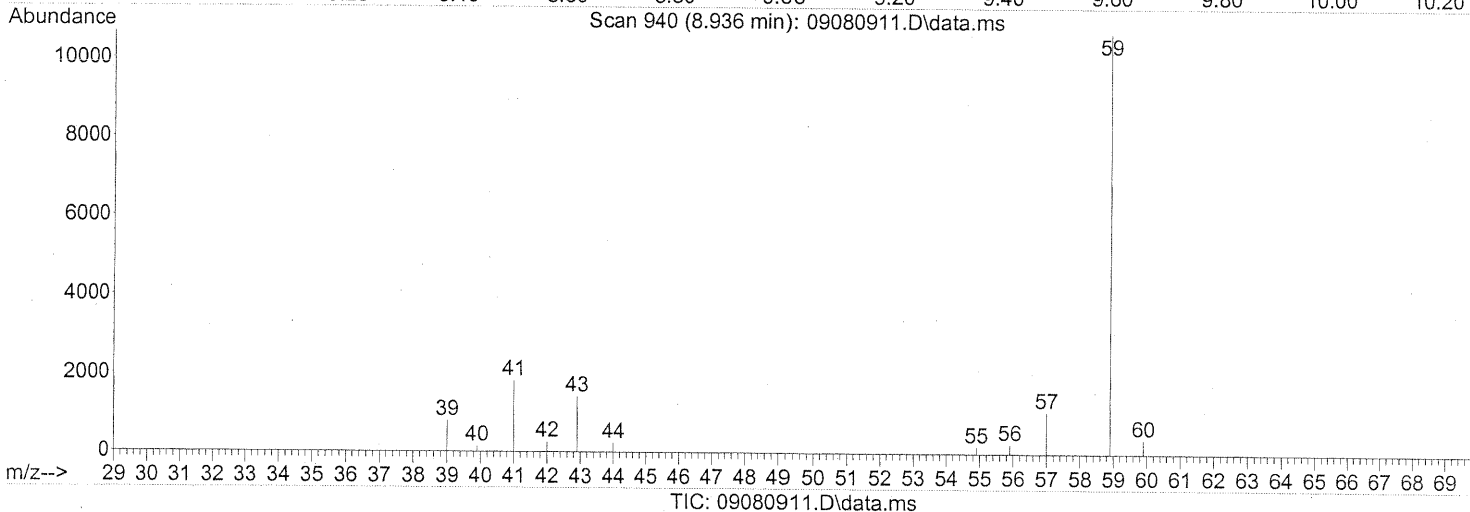
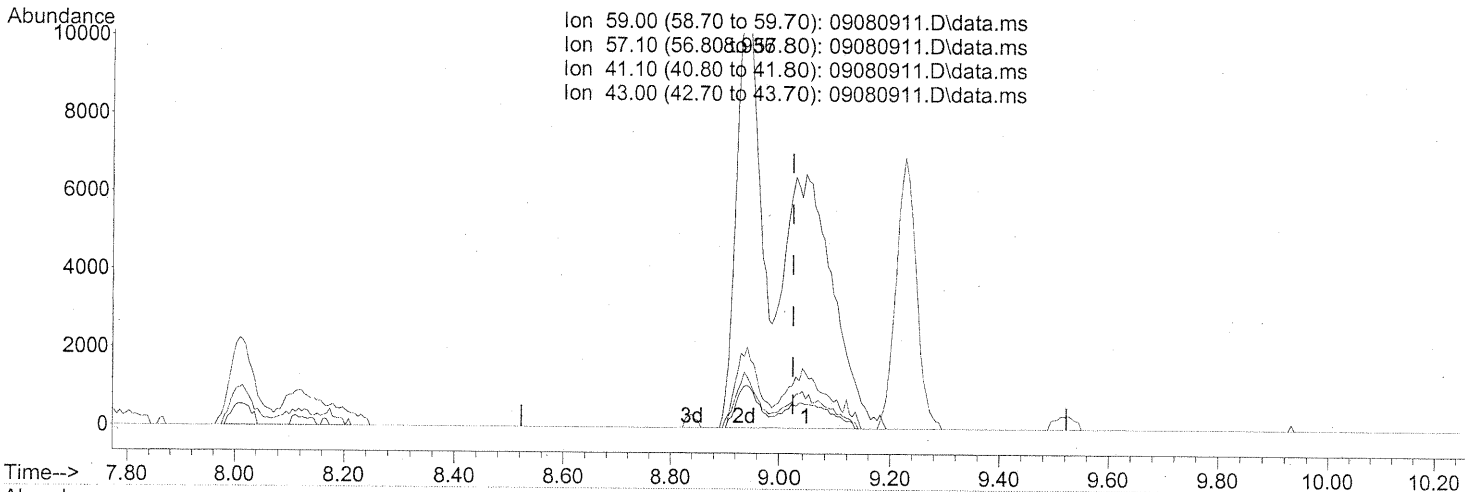
SP

Ion	Exp%	Act%
59.00	100	100
57.10	9.50	9.73
41.10	19.50	20.32
43.00	12.90	12.47

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080911.D
 Acq On : 8 Sep 2009 19:54
 Operator : LH
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:15:59 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol) (T)

8.936min (-0.087) 1.92ng m

response 71946

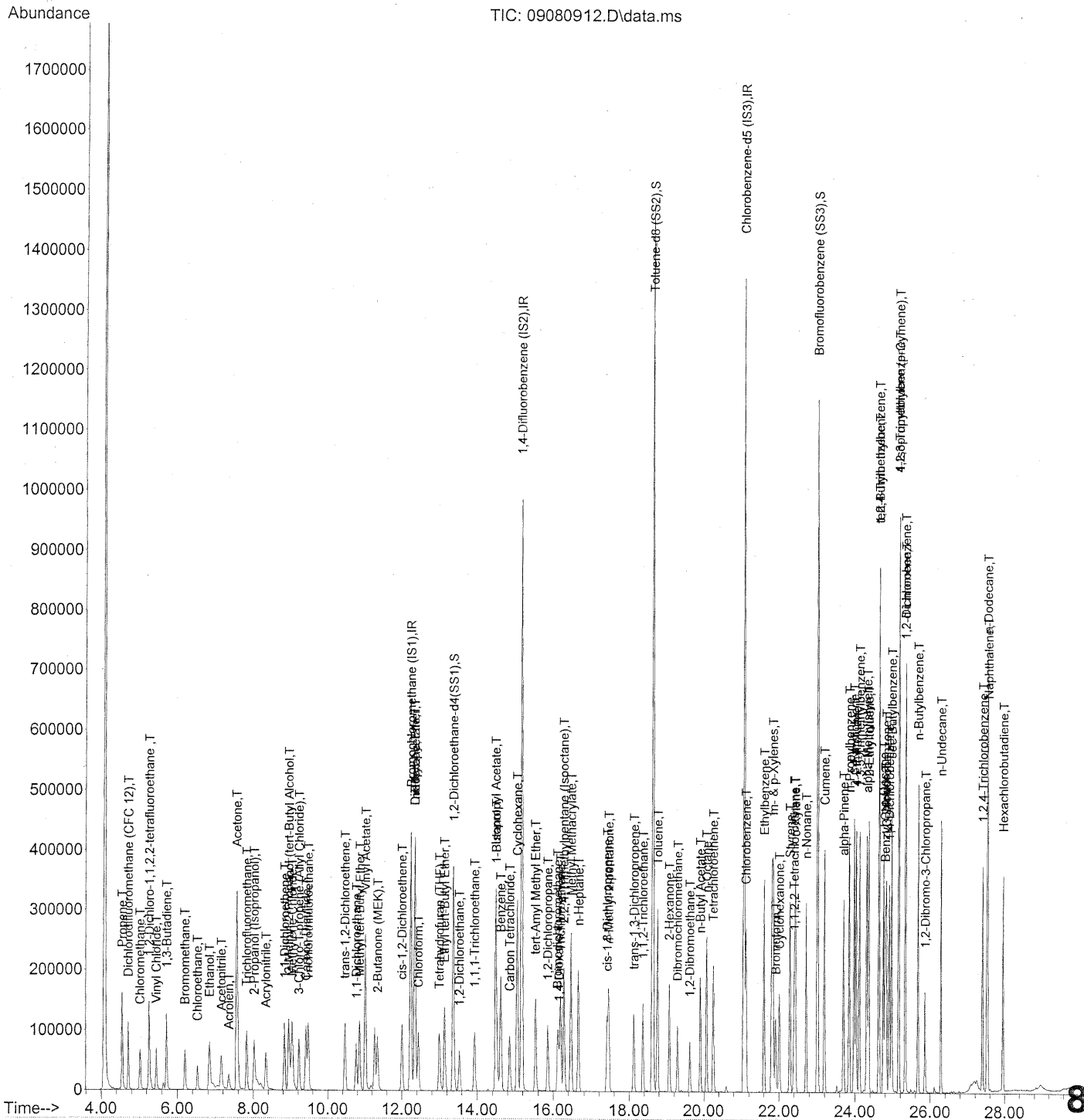
Ion	Exp%	Act%
59.00	100	100
57.10	9.50	5.11
41.10	19.50	10.67
43.00	12.90	6.55

SP → IC
LN 9/9/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
Data File : 09080912.D
Acq On : 8 Sep 2009 20:33
Operator : LH
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-09080901/S20-09030905
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:01 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:13:16 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080912.D
 Acq On : 8 Sep 2009 20:33
 Operator : LH
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

UH 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.24	130	272678	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.17	114	1324502	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.06	82	562222	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.38	65	377078	21.799	ng	0.00
Spiked Amount	25.000		Recovery	=	87.20%	
57) Toluene-d8 (SS2)	18.63	98	1388197	26.241	ng	-0.02
Spiked Amount	25.000		Recovery	=	104.96%	
73) Bromofluorobenzene (SS3)	23.02	174	497467	26.773	ng	0.00
Spiked Amount	25.000		Recovery	=	107.08%	

Target Compounds

						Qvalue
2) Propene	4.55	42	76308	5.317	ng	99
3) Dichlorodifluoromethan...	4.71	85	125723	4.905	ng	99
4) Chloromethane	5.03	50	97915	4.565	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	75059	5.391	ng	99
6) Vinyl Chloride	5.45	62	96959	4.639	ng	100
7) 1,3-Butadiene	5.73	54	76916	5.356	ng	96
8) Bromomethane	6.20	94	61710	5.040	ng	99
9) Chloroethane	6.52	64	48760	4.865	ng	99
10) Ethanol	6.84	45	215823	22.313	ng	100
11) Acetonitrile	7.16	41	115858	4.665	ng	99
12) Acrolein	7.35	56	36032	5.064	ng	99
13) Acetone	7.56	58	234949	22.675	ng	90
14) Trichlorofluoromethane	7.83	101	115867	5.117	ng	100
15) 2-Propanol (Isopropanol)	8.03	45	249371	7.647	ng	99
16) Acrylonitrile	8.33	53	88227	5.467	ng	99
17) 1,1-Dichloroethene	8.83	96	69257	5.574	ng	# 81
18) 2-Methyl-2-Propanol (t...	8.95	59	317769	9.708	ng	98
19) Methylene Chloride	9.04	84	67958	4.875	ng	84
20) 3-Chloro-1-propene (Al...	9.23	41	89126	5.027	ng	91
21) Trichlorotrifluoroethane	9.48	151	57759	5.425	ng	86
22) Carbon Disulfide	9.41	76	251480	5.003	ng	99
23) trans-1,2-Dichloroethene	10.46	61	96449	5.351	ng	88
24) 1,1-Dichloroethane	10.77	63	116535	5.047	ng	100
25) Methyl tert-Butyl Ether	10.86	73	179711	4.801	ng	97
26) Vinyl Acetate	11.02	86	62885	24.927	ng	# 57
27) 2-Butanone (MEK)	11.35	72	46219	5.601	ng	# 79
28) cis-1,2-Dichloroethene	12.01	61	92392	5.172	ng	84
29) Diisopropyl Ether	12.35	87	52260	4.975	ng	# 58
30) Ethyl Acetate	12.35	61	47605	10.714	ng	91
31) n-Hexane	12.36	57	87804	4.358	ng	99

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080912.D
 Acq On : 8 Sep 2009 20:33
 Operator : LH
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.45	83	114449	5.170	ng	100
34) Tetrahydrofuran (THF)	13.01	72	44694	5.467	ng	# 85
35) Ethyl tert-Butyl Ether	13.14	87	76133	4.790	ng	# 82
36) 1,2-Dichloroethane	13.54	62	80225	5.040	ng	99
38) 1,1,1-Trichloroethane	13.93	97	96647	5.123	ng	96
39) Isopropyl Acetate	14.49	61	83201	9.892	ng	98
40) 1-Butanol	14.50	56	133490	11.057	ng	84
41) Benzene	14.62	78	267301	5.022	ng	99
42) Carbon Tetrachloride	14.86	117	86850	5.591	ng	99
43) Cyclohexane	15.05	84	203340	10.259	ng	90
44) tert-Amyl Methyl Ether	15.53	73	185080	4.871	ng	95
45) 1,2-Dichloropropane	15.86	63	65837	4.989	ng	100
46) Bromodichloromethane	16.12	83	89898	5.535	ng	100
47) Trichloroethene	16.20	130	81121	5.239	ng	99
48) 1,4-Dioxane	16.16	88	59924	5.705	ng	90
49) 2,2,4-Trimethylpentane...	16.29	57	269157	4.715	ng	97
50) Methyl Methacrylate	16.48	100	64429	12.534	ng	# 77
51) n-Heptane	16.66	71	71176	5.178	ng	93
52) cis-1,3-Dichloropropene	17.42	75	103145	5.219	ng	99
53) 4-Methyl-2-pentanone	17.46	58	64742	5.784	ng	88
54) trans-1,3-Dichloropropene	18.13	75	105424	6.103	ng	100
55) 1,1,2-Trichloroethane	18.37	97	68868	5.596	ng	94
58) Toluene	18.76	91	304530	5.952	ng	98
59) 2-Hexanone	19.07	43	153145	5.697	ng	94
60) Dibromochloromethane	19.30	129	84572	7.060	ng	100
61) 1,2-Dibromoethane	19.63	107	78769	6.281	ng	100
62) n-Butyl Acetate	19.91	43	172478	5.618	ng	95
63) n-Octane	20.07	57	58667	5.529	ng	90
64) Tetrachloroethene	20.25	166	89830	6.246	ng	98
65) Chlorobenzene	21.12	112	208638	6.348	ng	99
66) Ethylbenzene	21.60	91	338002	5.962	ng	96
67) m- & p-Xylenes	21.84	91	518587	11.714	ng	# 29
68) Bromoform	21.92	173	77082	6.875	ng	100
69) Styrene	22.29	104	219418	6.476	ng	96
70) o-Xylene	22.44	91	266060	5.928	ng	95
71) n-Nonane	22.71	43	132023	5.326	ng	92
72) 1,1,2,2-Tetrachloroethane	22.40	83	118110	5.942	ng	98
74) Cumene	23.20	105	353209	5.978	ng	99
75) alpha-Pinene	23.70	93	167764	5.809	ng	96
76) n-Propylbenzene	23.85	91	419715	5.839	ng	96
77) 3-Ethyltoluene	23.97	105	353273	6.366	ng	99
78) 4-Ethyltoluene	24.03	105	343970	6.180	ng	98
79) 1,3,5-Trimethylbenzene	24.12	105	286400	6.187	ng	98

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080912.D
 Acq On : 8 Sep 2009 20:33
 Operator : LH
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030905
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:01 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

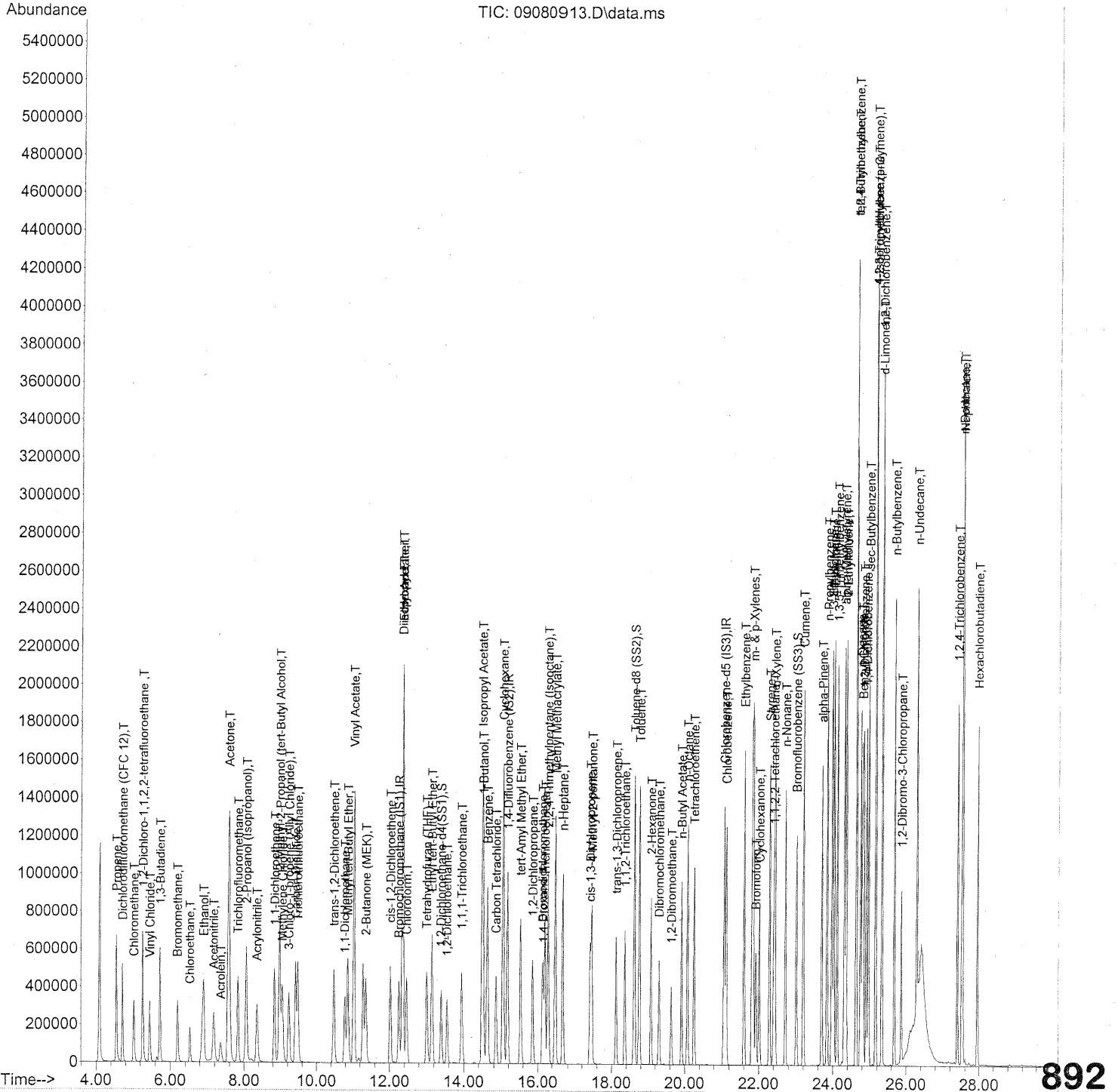
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	167387	6.616	ng	97
81) 2-Ethyltoluene	24.36	105	348029	5.884	ng	97
82) 1,2,4-Trimethylbenzene	24.63	105	292484	6.074	ng	96
83) n-Decane	24.75	57	153709	5.773	ng	94
84) Benzyl Chloride	24.80	91	250620	6.444	ng	95
85) 1,3-Dichlorobenzene	24.83	146	178889	6.691	ng	100
86) 1,4-Dichlorobenzene	24.91	146	183615	6.418	ng	100
87) sec-Butylbenzene	24.97	105	391362	6.103	ng	96
88) 4-Isopropyltoluene (p-...	25.16	119	376504	6.139	ng	96
89) 1,2,3-Trimethylbenzene	25.16	105	298326	6.188	ng	96
90) 1,2-Dichlorobenzene	25.33	146	169458	6.405	ng	100
91) d-Limonene	25.34	68	114769	6.104	ng	92
92) 1,2-Dibromo-3-Chloropr...	25.87	157	63966	7.485	ng	83
93) n-Undecane	26.28	57	163439	5.889	ng	95
94) 1,2,4-Trichlorobenzene	27.39	180	138993	7.345	ng	99
95) Naphthalene	27.53	128	432142	6.537	ng	100
96) n-Dodecane	27.52	57	170007	5.532	ng	93
97) Hexachlorobutadiene	27.95	225	83712	6.930	ng	99
98) Cyclohexanone	22.01	55	93334	4.920	ng	# 91
99) tert-Butylbenzene	24.63	119	294971	6.159	ng	98
100) n-Butylbenzene	25.67	91	313423	6.238	ng	98

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080913.D
 Acq On : 8 Sep 2009 21:11
 Operator : LH
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:03 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080913.D
 Acq On : 8 Sep 2009 21:11
 Operator : LH
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:03 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.26	130	276048	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.19	114	1370245	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.07	82	569605	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.39	65	384896	21.980	ng	0.00
Spiked Amount	25.000		Recovery	=	87.92%	
57) Toluene-d8 (SS2)	18.63	98	1422370	26.538	ng	-0.02
Spiked Amount	25.000		Recovery	=	106.16%	
73) Bromofluorobenzene (SS3)	23.02	174	530543	28.182	ng	0.00
Spiked Amount	25.000		Recovery	=	112.72%	

Target Compounds

						Qvalue
2) Propene	4.55	42	315060	21.683	ng	99
3) Dichlorodifluoromethan...	4.71	85	568605	21.915	ng	99
4) Chloromethane	5.03	50	482938	22.242	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	358427	25.429	ng	99
6) Vinyl Chloride	5.46	62	457658	21.628	ng	100
7) 1,3-Butadiene	5.73	54	392310	26.986	ng	96
8) Bromomethane	6.20	94	313081	25.259	ng	99
9) Chloroethane	6.53	64	230841	22.753	ng	99
10) Ethanol	6.90	45	1138773	116.294	ng	99
11) Acetonitrile	7.18	41	575311	22.881	ng	100
12) Acrolein	7.37	56	188483	26.164	ng	99
13) Acetone	7.59	58	1164618	111.026	ng	88
14) Trichlorofluoromethane	7.83	101	564849	24.640	ng	100
15) 2-Propanol (Isopropanol)	8.07	45	1407417	42.631	ng	98
16) Acrylonitrile	8.36	53	446931	27.356	ng	98
17) 1,1-Dichloroethene	8.84	96	339677	27.005	ng	# 81
18) 2-Methyl-2-Propanol (t...	8.99	59	1593989	48.101	ng	98
19) Methylene Chloride	9.06	84	337376	23.908	ng	83
20) 3-Chloro-1-propene (Al...	9.24	41	457609	25.497	ng	91
21) Trichlorotrifluoroethane	9.49	151	307324	28.511	ng	85
22) Carbon Disulfide	9.42	76	1230942	24.190	ng	98
23) trans-1,2-Dichloroethene	10.48	61	472440	25.891	ng	86
24) 1,1-Dichloroethane	10.78	63	564686	24.159	ng	100
25) Methyl tert-Butyl Ether	10.87	73	951840	25.117	ng	97
26) Vinyl Acetate	11.04	86	381666	149.444	ng	# 52
27) 2-Butanone (MEK)	11.36	72	239871	28.712	ng	# 76
28) cis-1,2-Dichloroethene	12.03	61	453568	25.079	ng	84
29) Diisopropyl Ether	12.36	87	269009	25.296	ng	# 56
30) Ethyl Acetate	12.36	61	251213	55.848	ng	93
31) n-Hexane	12.36	57	457470	22.428	ng	93

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080913.D
 Acq On : 8 Sep 2009 21:11
 Operator : LH
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:03 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.47	83	565695	25.243	ng	100
34) Tetrahydrofuran (THF)	13.01	72	232332	28.074	ng	# 85
35) Ethyl tert-Butyl Ether	13.15	87	396799	24.659	ng	# 81
36) 1,2-Dichloroethane	13.55	62	396090	24.581	ng	99
38) 1,1,1-Trichloroethane	13.94	97	491284	25.171	ng	96
39) Isopropyl Acetate	14.50	61	427568	49.140	ng	96
40) 1-Butanol	14.53	56	704703	56.423	ng	87
41) Benzene	14.63	78	1348893	24.498	ng	99
42) Carbon Tetrachloride	14.87	117	452576	28.161	ng	99
43) Cyclohexane	15.06	84	1048886	51.153	ng	89
44) tert-Amyl Methyl Ether	15.54	73	954679	24.285	ng	95
45) 1,2-Dichloropropane	15.87	63	328755	24.080	ng	100
46) Bromodichloromethane	16.14	83	448894	26.717	ng	100
47) Trichloroethene	16.22	130	406474	25.375	ng	99
48) 1,4-Dioxane	16.16	88	302756	27.859	ng	90
49) 2,2,4-Trimethylpentane...	16.30	57	1358298	22.999	ng	97
50) Methyl Methacrylate	16.49	100	333159	62.649	ng	# 76
51) n-Heptane	16.67	71	356655	25.081	ng	93
52) cis-1,3-Dichloropropene	17.42	75	528561	25.853	ng	100
53) 4-Methyl-2-pentanone	17.46	58	321747	27.787	ng	87
54) trans-1,3-Dichloropropene	18.13	75	535887	29.989	ng	99
55) 1,1,2-Trichloroethane	18.37	97	334770	26.294	ng	94
58) Toluene	18.76	91	1500898	28.953	ng	99
59) 2-Hexanone	19.08	43	747424	27.444	ng	94
60) Dibromochloromethane	19.30	129	425124	35.031	ng	99
61) 1,2-Dibromoethane	19.64	107	393099	30.941	ng	99
62) n-Butyl Acetate	19.91	43	872262	28.044	ng	95
63) n-Octane	20.07	57	285740	26.578	ng	87
64) Tetrachloroethene	20.25	166	450619	30.926	ng	98
65) Chlorobenzene	21.13	112	1003761	30.143	ng	99
66) Ethylbenzene	21.61	91	1641273	28.576	ng	96
67) m- & p-Xylenes	21.85	91	2538718	56.602	ng	95
68) Bromoform	21.92	173	406029	35.747	ng	100
69) Styrene	22.29	104	1090923	31.781	ng	96
70) o-Xylene	22.44	91	1312824	28.873	ng	95
71) n-Nonane	22.71	43	632602	25.191	ng	91
72) 1,1,2,2-Tetrachloroethane	22.41	83	604009	29.994	ng	98
74) Cumene	23.20	105	1739568	29.060	ng	98
75) alpha-Pinene	23.70	93	827852	28.293	ng	95
76) n-Propylbenzene	23.85	91	2060256	28.290	ng	95
77) 3-Ethyltoluene	23.98	105	1728146	30.736	ng	98
78) 4-Ethyltoluene	24.03	105	1757492	31.168	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1431334	30.519	ng	98

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Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080913.D
 Acq On : 8 Sep 2009 21:11
 Operator : LH
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

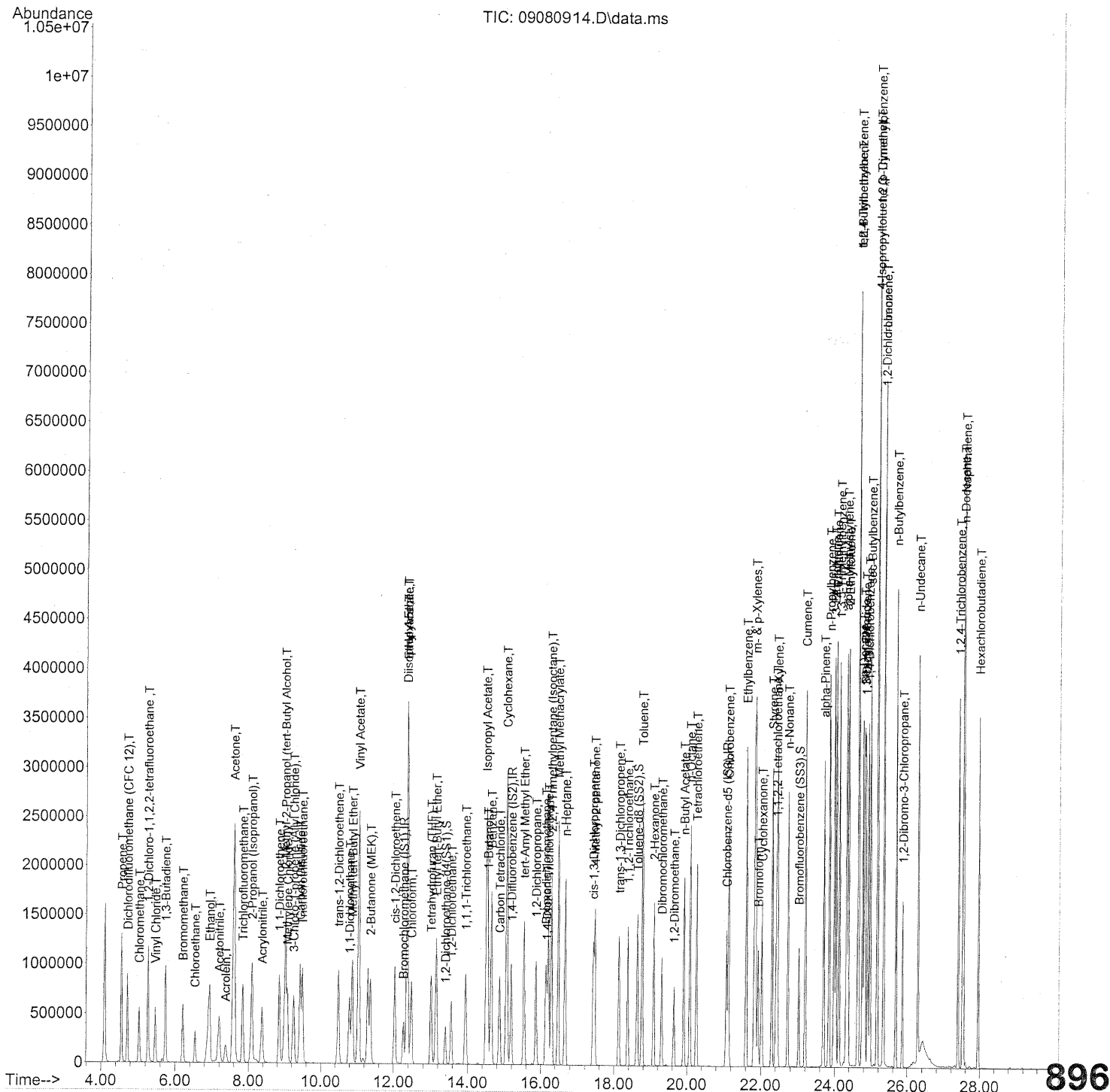
Quant Time: Sep 09 09:16:03 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	852885	33.274	ng	97
81) 2-Ethyltoluene	24.36	105	1726989	28.820	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1463689	30.000	ng	95
83) n-Decane	24.76	57	734744	27.239	ng	94
84) Benzyl Chloride	24.80	91	1353612	34.354	ng	94
85) 1,3-Dichlorobenzene	24.83	146	910814	33.626	ng	100
86) 1,4-Dichlorobenzene	24.91	146	931093	32.121	ng	100
87) sec-Butylbenzene	24.97	105	1966426	30.268	ng	96
88) 4-Isopropyltoluene (p-...	25.16	119	1887268	30.373	ng	96
89) 1,2,3-Trimethylbenzene	25.17	105	1501083	30.734	ng	95
90) 1,2-Dichlorobenzene	25.34	146	874451	32.624	ng	99
91) d-Limonene	25.34	68	563009	29.554	ng	90
92) 1,2-Dibromo-3-Chloropr...	25.87	157	339737	39.241	ng	80
93) n-Undecane	26.29	57	1399458	49.774	ng	83
94) 1,2,4-Trichlorobenzene	27.39	180	736929	38.440	ng	100
95) Naphthalene	27.53	128	2338849	34.923	ng	100
96) n-Dodecane	27.52	57	799773	25.688	ng	92
97) Hexachlorobutadiene	27.96	225	431688	35.273	ng	98
98) Cyclohexanone	22.02	55	469461	24.426	ng	# 90
99) tert-Butylbenzene	24.64	119	1488048	30.669	ng	98
100) n-Butylbenzene	25.68	91	1554600	30.541	ng	97

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

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080914.D
 Acq On : 8 Sep 2009 21:49
 Operator : LH
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:05 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080914.D
 Acq On : 8 Sep 2009 21:49
 Operator : LH
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:05 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

LH 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.27	130	276237	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.19	114	1375811	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.07	82	571196	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.40	65	381786	21.787	ng	0.02
Spiked Amount	25.000					
					Recovery =	87.16%
57) Toluene-d8 (SS2)	18.63	98	1424962	26.513	ng	-0.01
Spiked Amount	25.000					
					Recovery =	106.04%
73) Bromofluorobenzene (SS3)	23.02	174	531595	28.160	ng	0.00
Spiked Amount	25.000					
					Recovery =	112.64%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.55	42	623340	42.870	ng	99
3) Dichlorodifluoromethan...	4.72	85	1031059	39.711	ng	99
4) Chloromethane	5.03	50	866408	39.876	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	628578	44.564	ng	100
6) Vinyl Chloride	5.46	62	845447	39.926	ng	99
7) 1,3-Butadiene	5.74	54	668664	45.964	ng	96
8) Bromomethane	6.21	94	598405	48.246	ng	100
9) Chloroethane	6.54	64	433679	42.716	ng	98
10) Ethanol	6.94	45	2198345	224.347	ng	99
11) Acetonitrile	7.19	41	1106711	43.985	ng	99
12) Acrolein	7.38	56	362733	50.319	ng	100
13) Acetone	7.60	58	2238198	213.227	ng	87
14) Trichlorofluoromethane	7.84	101	1066734	46.501	ng	100
15) 2-Propanol (Isopropanol)	8.09	45	2464239	74.591	ng	97
16) Acrylonitrile	8.37	53	864909	52.905	ng	99
17) 1,1-Dichloroethene	8.85	96	653642	51.930	ng	# 80
18) 2-Methyl-2-Propanol (t...	9.02	59	3094481	93.316	ng	98
19) Methylene Chloride	9.07	84	654212	46.329	ng	82
20) 3-Chloro-1-propene (Al...	9.25	41	902236	50.237	ng	90
21) Trichlorotrifluoroethane	9.49	151	587482	54.465	ng	85
22) Carbon Disulfide	9.43	76	2351747	46.183	ng	98
23) trans-1,2-Dichloroethene	10.49	61	925372	50.679	ng	85
24) 1,1-Dichloroethane	10.79	63	1109867	47.451	ng	99
25) Methyl tert-Butyl Ether	10.87	73	1825198	48.130	ng	97
26) Vinyl Acetate	11.05	86	750237	293.559	ng	# 48
27) 2-Butanone (MEK)	11.37	72	463494	55.442	ng	# 74
28) cis-1,2-Dichloroethene	12.03	61	882606	48.768	ng	84
29) Diisopropyl Ether	12.36	87	513304	48.235	ng	# 52
30) Ethyl Acetate	12.37	61	479001	106.415	ng	92
31) n-Hexane	12.37	57	831670	40.745	ng	92

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Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080914.D
 Acq On : 8 Sep 2009 21:49
 Operator : LH
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:05 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.48	83	1092979	48.738	ng	100
34) Tetrahydrofuran (THF)	13.02	72	441923	53.363	ng	# 85
35) Ethyl tert-Butyl Ether	13.15	87	758326	47.093	ng	# 81
36) 1,2-Dichloroethane	13.56	62	762962	47.317	ng	98
38) 1,1,1-Trichloroethane	13.95	97	952894	48.624	ng	96
39) Isopropyl Acetate	14.51	61	821287	94.008	ng	94
40) 1-Butanol	14.55	56	1352597	107.859	ng	87
41) Benzene	14.64	78	2599954	47.027	ng	99
42) Carbon Tetrachloride	14.87	117	889339	55.113	ng	99
43) Cyclohexane	15.07	84	2029850	98.592	ng	88
44) tert-Amyl Methyl Ether	15.54	73	1837877	46.562	ng	95
45) 1,2-Dichloropropane	15.87	63	635496	46.359	ng	100
46) Bromodichloromethane	16.14	83	876212	51.938	ng	100
47) Trichloroethene	16.22	130	794468	49.396	ng	99
48) 1,4-Dioxane	16.17	88	594874	54.518	ng	89
49) 2,2,4-Trimethylpentane...	16.31	57	2565790	43.268	ng	97
50) Methyl Methacrylate	16.49	100	648765	121.504	ng	# 74
51) n-Heptane	16.68	71	680851	47.685	ng	92
52) cis-1,3-Dichloropropene	17.42	75	1028666	50.111	ng	99
53) 4-Methyl-2-pentanone	17.47	58	621956	53.496	ng	86
54) trans-1,3-Dichloropropene	18.13	75	1047838	58.402	ng	99
55) 1,1,2-Trichloroethane	18.37	97	658203	51.489	ng	94
58) Toluene	18.77	91	2901339	55.813	ng	99
59) 2-Hexanone	19.08	43	1431461	52.414	ng	93
60) Dibromochloromethane	19.31	129	845406	69.468	ng	99
61) 1,2-Dibromoethane	19.64	107	766593	60.170	ng	100
62) n-Butyl Acetate	19.91	43	1713797	54.947	ng	95
63) n-Octane	20.08	57	553228	51.315	ng	88
64) Tetrachloroethene	20.26	166	890315	60.933	ng	98
65) Chlorobenzene	21.13	112	1964512	58.830	ng	99
66) Ethylbenzene	21.61	91	3190269	55.390	ng	96
67) m- & p-Xylenes	21.85	91	4919660	109.381	ng	95
68) Bromoform	21.92	173	802244	70.433	ng	100
69) Styrene	22.30	104	2121003	61.618	ng	96
70) o-Xylene	22.44	91	2530048	55.488	ng	94
71) n-Nonane	22.72	43	1182585	46.961	ng	89
72) 1,1,2,2-Tetrachloroethane	22.41	83	1166594	57.769	ng	98
74) Cumene	23.20	105	3347387	55.763	ng	97
75) alpha-Pinene	23.70	93	1599220	54.504	ng	95
76) n-Propylbenzene	23.85	91	3951292	54.106	ng	95
77) 3-Ethyltoluene	23.98	105	3369137	59.755	ng	97
78) 4-Ethyltoluene	24.03	105	3344361	59.145	ng	96
79) 1,3,5-Trimethylbenzene	24.13	105	2761897	58.725	ng	96

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Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080914.D
 Acq On : 8 Sep 2009 21:49
 Operator : LH
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:05 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

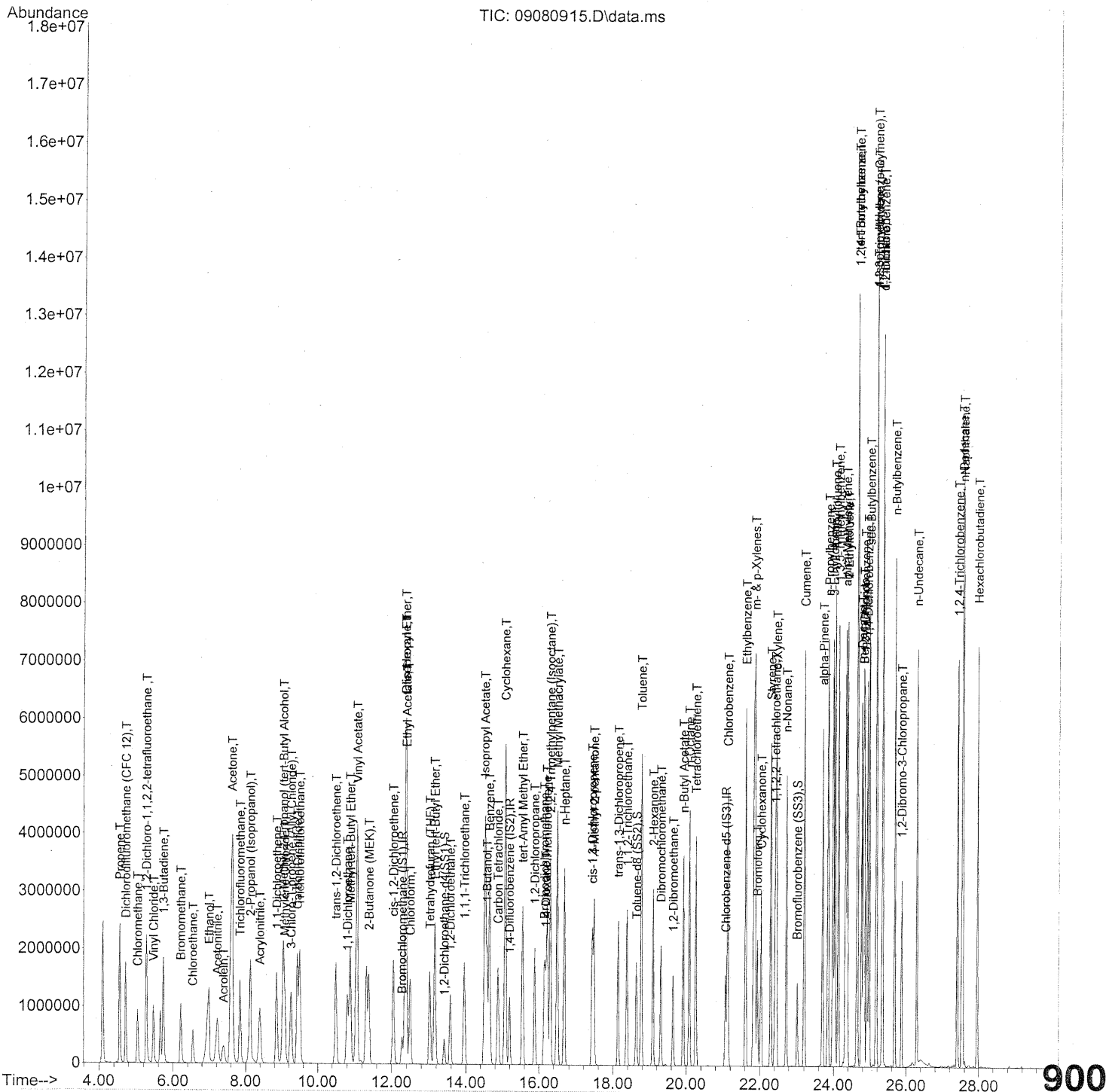
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	1649517	64.174	ng	97
81) 2-Ethyltoluene	24.37	105	3314321	55.156	ng	96
82) 1,2,4-Trimethylbenzene	24.64	105	2806686	57.367	ng	95
83) n-Decane	24.76	57	1401210	51.802	ng	93
84) Benzyl Chloride	24.81	91	2639578	66.804	ng	93
85) 1,3-Dichlorobenzene	24.84	146	1771273	65.211	ng	100
86) 1,4-Dichlorobenzene	24.92	146	1806227	62.138	ng	100
87) sec-Butylbenzene	24.97	105	3749927	57.560	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	3596383	57.718	ng	95
89) 1,2,3-Trimethylbenzene	25.17	105	2870586	58.609	ng	96
90) 1,2-Dichlorobenzene	25.34	146	1697257	63.145	ng	99
91) d-Limonene	25.34	68	1046860	54.801	ng	87
92) 1,2-Dibromo-3-Chloropr...	25.87	157	666390	76.756	ng	79
93) n-Undecane	26.29	57	1733502	61.484	ng	91
94) 1,2,4-Trichlorobenzene	27.40	180	1452134	75.535	ng	99
95) Naphthalene	27.54	128	4533841	67.509	ng	100
96) n-Dodecane	27.52	57	1473099	47.183	ng	90
97) Hexachlorobutadiene	27.96	225	861656	70.209	ng	98
98) Cyclohexanone	22.03	55	898428	46.615	ng	# 90
99) tert-Butylbenzene	24.64	119	2849027	58.555	ng	97
100) n-Butylbenzene	25.68	91	2963367	58.056	ng	# 97

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080915.D
 Acq On : 8 Sep 2009 22:28
 Operator : LH
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:07 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080915.D
 Acq On : 8 Sep 2009 22:28
 Operator : LH
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:07 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

UH 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.28	130	331470	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.20	114	1636502	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.08	82	677276	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.42	65	449064	21.356	ng	0.03
Spiked Amount	25.000		Recovery	=	85.44%	
57) Toluene-d8 (SS2)	18.64	98	1689027	26.504	ng	0.00
Spiked Amount	25.000		Recovery	=	106.00%	
73) Bromofluorobenzene (SS3)	23.02	174	635382	28.386	ng	0.00
Spiked Amount	25.000		Recovery	=	113.56%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	1239071	71.017	ng	99
3) Dichlorodifluoromethan...	4.72	85	2156909	69.230	ng	100
4) Chloromethane	5.04	50	1570014	60.219	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	1298873	76.741	ng	100
6) Vinyl Chloride	5.47	62	1659712	65.320	ng	99
7) 1,3-Butadiene	5.74	54	1357104	77.742	ng	96
8) Bromomethane	6.22	94	1152994	77.469	ng	100
9) Chloroethane	6.55	64	882776	72.462	ng	98
10) Ethanol	7.00	45	4171999	354.818	ng	99
11) Acetonitrile	7.22	41	2179129	72.176	ng	100
12) Acrolein	7.39	56	727555	84.110	ng	99
13) Acetone	7.63	58	4266803	338.753	ng	86
14) Trichlorofluoromethane	7.85	101	2133419	77.503	ng	99
15) 2-Propanol (Isopropanol)	8.13	45	4561288	115.061	ng	99
16) Acrylonitrile	8.40	53	1688391	86.066	ng	98
17) 1,1-Dichloroethene	8.86	96	1308030	86.604	ng	# 78
18) 2-Methyl-2-Propanol (t...	9.04	59	3609348	90.706	ng	98
19) Methylene Chloride	9.08	84	1295084	76.432	ng	80
20) 3-Chloro-1-propene (Al...	9.26	41	1758200	81.585	ng	89
21) Trichlorotrifluoroethane	9.50	151	1310460	101.248	ng	84
22) Carbon Disulfide	9.43	76	4695073	76.837	ng	98
23) trans-1,2-Dichloroethene	10.50	61	1806049	82.428	ng	84
24) 1,1-Dichloroethane	10.81	63	2167858	77.239	ng	100
25) Methyl tert-Butyl Ether	10.88	73	3809615	83.718	ng	97
26) Vinyl Acetate	11.08	86	1467880	478.658	ng	# 40
27) 2-Butanone (MEK)	11.39	72	870084	86.735	ng	# 72
28) cis-1,2-Dichloroethene	12.05	61	1713413	78.898	ng	83
29) Diisopropyl Ether	12.37	87	1064129	83.334	ng	# 1
30) Ethyl Acetate	12.40	61	910399	168.553	ng	90
31) n-Hexane	12.38	57	1757742	71.766	ng	901

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080915.D
 Acq On : 8 Sep 2009 22:28
 Operator : LH
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:07 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.50	83	2106168	78.269	ng	100
34) Tetrahydrofuran (THF)	13.03	72	839559	84.486	ng	# 83
35) Ethyl tert-Butyl Ether	13.16	87	1579506	81.745	ng	# 79
36) 1,2-Dichloroethane	13.57	62	1471549	76.055	ng	98
38) 1,1,1-Trichloroethane	13.96	97	1904856	81.717	ng	96
39) Isopropyl Acetate	14.52	61	1606945	154.636	ng	# 90
40) 1-Butanol	14.58	56	2541307	170.367	ng	87
41) Benzene	14.65	78	5139125	78.148	ng	99
42) Carbon Tetrachloride	14.88	117	1780058	92.740	ng	99
43) Cyclohexane	15.08	84	4073483	166.336	ng	86
44) tert-Amyl Methyl Ether	15.56	73	3701122	78.830	ng	94
45) 1,2-Dichloropropane	15.89	63	1235152	75.750	ng	100
46) Bromodichloromethane	16.15	83	1704391	84.936	ng	99
47) Trichloroethene	16.23	130	1592991	83.266	ng	99
48) 1,4-Dioxane	16.19	88	1153025	88.838	ng	87
49) 2,2,4-Trimethylpentane...	16.32	57	4993649	70.796	ng	96
50) Methyl Methacrylate	16.51	100	1275904	200.892	ng	# 72
51) n-Heptane	16.69	71	1326455	78.102	ng	91
52) cis-1,3-Dichloropropene	17.43	75	2012520	82.422	ng	99
53) 4-Methyl-2-pentanone	17.48	58	1206664	87.255	ng	84
54) trans-1,3-Dichloropropene	18.14	75	2054731	96.278	ng	99
55) 1,1,2-Trichloroethane	18.38	97	1292369	84.992	ng	94
58) Toluene	18.78	91	5601223	90.873	ng	98
59) 2-Hexanone	19.10	43	2716517	83.888	ng	92
60) Dibromochloromethane	19.31	129	1670341	115.756	ng	99
61) 1,2-Dibromoethane	19.65	107	1511443	100.052	ng	100
62) n-Butyl Acetate	19.93	43	3417480	92.407	ng	94
63) n-Octane	20.09	57	1052653	82.346	ng	# 84
64) Tetrachloroethene	20.26	166	1777017	102.570	ng	99
65) Chlorobenzene	21.13	112	3824762	96.598	ng	98
66) Ethylbenzene	21.62	91	6182359	90.527	ng	95
67) m- & p-Xylenes	21.86	91	9508829	178.301	ng	94
68) Bromoform	21.93	173	1588270	117.602	ng	99
69) Styrene	22.30	104	4107358	100.635	ng	96
70) o-Xylene	22.45	91	4876262	90.194	ng	94
71) n-Nonane	22.73	43	2159527	72.324	ng	86
72) 1,1,2,2-Tetrachloroethane	22.42	83	2223708	92.870	ng	98
74) Cumene	23.21	105	6460261	90.763	ng	97
75) alpha-Pinene	23.71	93	3072769	88.322	ng	95
76) n-Propylbenzene	23.85	91	7529362	86.953	ng	94
77) 3-Ethyltoluene	23.99	105	6465475	96.710	ng	97
78) 4-Ethyltoluene	24.04	105	6411323	95.624	ng	96
79) 1,3,5-Trimethylbenzene	24.13	105	5302283	95.081	ng	94

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080915.D
 Acq On : 8 Sep 2009 22:28
 Operator : LH
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 09 09:16:07 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:13:16 2009
 Response via : Initial Calibration

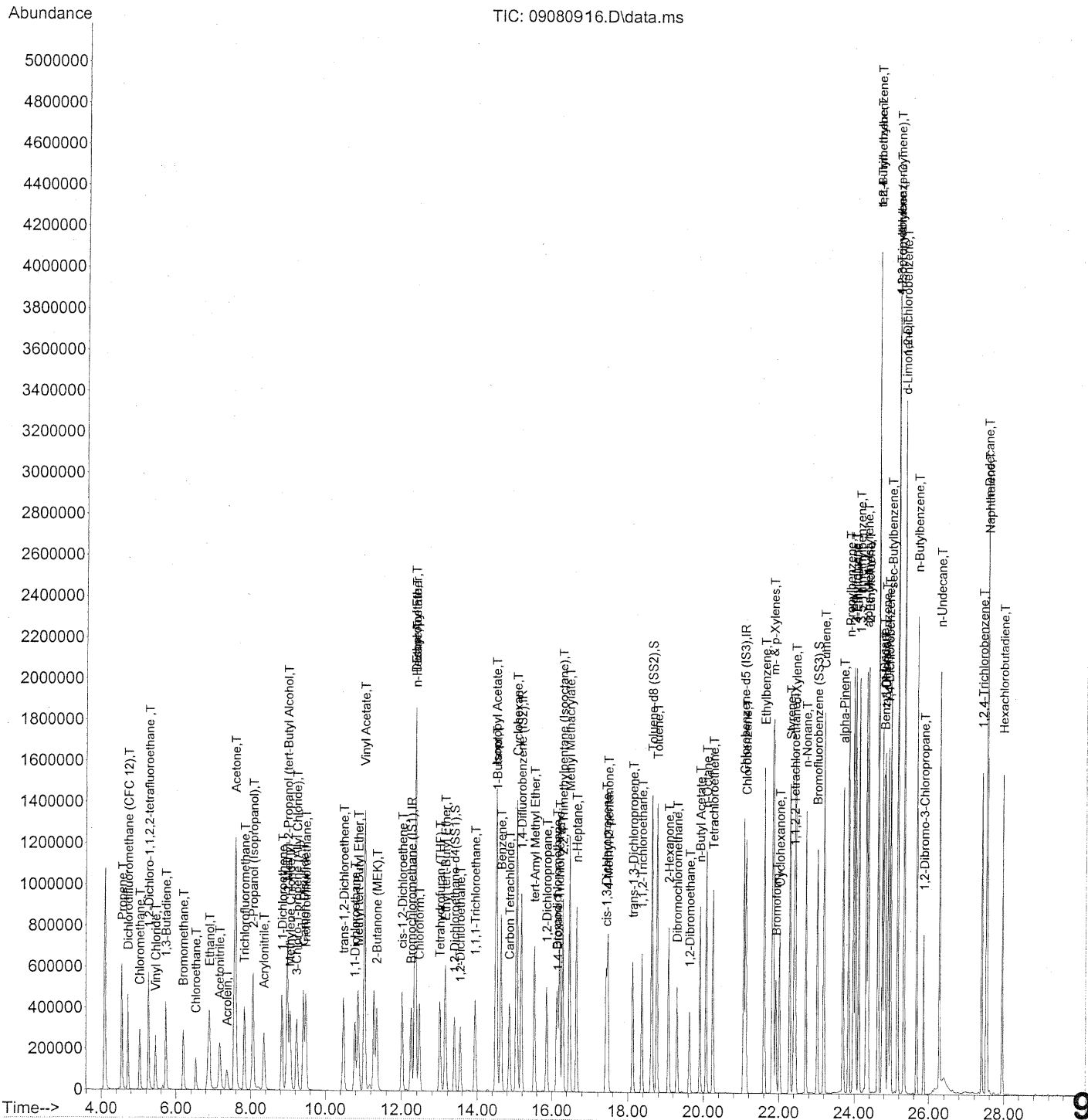
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.33	118	3197412	104.910	ng	98
81) 2-Ethyltoluene	24.38	105	6357558	89.230	ng	96
82) 1,2,4-Trimethylbenzene	24.66	105	5263467	90.731	ng	95
83) n-Decane	24.77	57	2521770	78.626	ng	91
84) Benzyl Chloride	24.81	91	5072709	108.275	ng	92
85) 1,3-Dichlorobenzene	24.84	146	3489250	108.339	ng	100
86) 1,4-Dichlorobenzene	24.92	146	3533625	102.524	ng	100
87) sec-Butylbenzene	24.99	105	7148498	92.541	ng	95
88) 4-Isopropyltoluene (p-...	25.17	119	6574765	88.991	ng	95
89) 1,2,3-Trimethylbenzene	25.18	105	5347221	92.075	ng	97
90) 1,2-Dichlorobenzene	25.35	146	3276195	102.798	ng	99
91) d-Limonene	25.35	68	1865144	82.343	ng	83
92) 1,2-Dibromo-3-Chloropr...	25.87	157	1312721	127.520	ng	# 77
93) n-Undecane	26.29	57	2768845	82.823	ng	91
94) 1,2,4-Trichlorobenzene	27.40	180	2886119	126.612	ng	99
95) Naphthalene	27.55	128	8592283	107.901	ng	100
96) n-Dodecane	27.52	57	2586640	69.873	ng	87
97) Hexachlorobutadiene	27.96	225	1743700	119.826	ng	98
98) Cyclohexanone	22.04	55	1686065	73.780	ng	# 88
99) tert-Butylbenzene	24.65	119	5348972	92.716	ng	96
100) n-Butylbenzene	25.69	91	5545603	91.628	ng	# 96

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080916.D
 Acq On : 8 Sep 2009 23:07
 Operator : LH
 Sample : 25ng TO-15 ICV STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:31:26 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:24:30 2009
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080916.D
 Acq On : 8 Sep 2009 23:07
 Operator : LH
 Sample : 25ng TO-15 ICV STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:31:26 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:24:30 2009
 Response via : Initial Calibration

LM 9/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.26	130	263183	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.18	114	1306207	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.07	82	549143	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.39	65	358917	24.746	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.00%	
57) Toluene-d8 (SS2)	18.63	98	1355852	24.666	ng	-0.01
Spiked Amount	25.000		Recovery	=	98.68%	
73) Bromofluorobenzene (SS3)	23.02	174	516967	26.245	ng	0.00
Spiked Amount	25.000		Recovery	=	104.96%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.55	42	288017	26.875	ng	99
3) Dichlorodifluoromethan...	4.71	85	501039	24.454	ng	99
4) Chloromethane	5.03	50	428378	25.527	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	300856	24.481	ng	99
6) Vinyl Chloride	5.46	62	373116	23.165	ng	99
7) 1,3-Butadiene	5.73	54	275232	24.537	ng	96
8) Bromomethane	6.20	94	282092	26.550	ng	100
9) Chloroethane	6.53	64	199754	25.266	ng	99
10) Ethanol	6.90	45	990878	127.536	ng	99
11) Acetonitrile	7.17	41	499479	25.419	ng	99
12) Acrolein	7.37	56	176884	30.600	ng	98
13) Acetone	7.58	58	1067175	136.343	ng	87
14) Trichlorofluoromethane	7.83	101	501820	26.441	ng	99
15) 2-Propanol (Isopropanol)	8.07	45	1330783	49.365	ng	99
16) Acrylonitrile	8.36	53	406496	26.782	ng	99
17) 1,1-Dichloroethene	8.84	96	320552	29.351	ng	# 80
18) 2-Methyl-2-Propanol (t...	8.99	59	1534385	55.067	ng	98
19) Methylene Chloride	9.06	84	317920	26.635	ng	82
20) 3-Chloro-1-propene (Al...	9.24	41	432137	30.877	ng	91
21) Trichlorotrifluoroethane	9.48	151	269720	28.845	ng	84
22) Carbon Disulfide	9.42	76	1108705	26.781	ng	98
23) trans-1,2-Dichloroethene	10.48	61	430292	28.899	ng	85
24) 1,1-Dichloroethane	10.78	63	536988	28.508	ng	99
25) Methyl tert-Butyl Ether	10.87	73	835255	27.763	ng	97
26) Vinyl Acetate	11.04	86	361611	153.414	ng	# 52
27) 2-Butanone (MEK)	11.35	72	215538	28.667	ng	# 76
28) cis-1,2-Dichloroethene	12.02	61	427745	29.687	ng	84
29) Diisopropyl Ether	12.36	87	242412	27.825	ng	# 54
30) Ethyl Acetate	12.36	61	226319	59.292	ng	92
31) n-Hexane	12.37	57	388684	25.708	ng	91

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080916.D
 Acq On : 8 Sep 2009 23:07
 Operator : LH
 Sample : 25ng TO-15 ICV STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:31:26 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:24:30 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.46	83	535412	28.866	ng	100
34) Tetrahydrofuran (THF)	13.01	72	210291	30.223	ng	# 84
35) Ethyl tert-Butyl Ether	13.15	87	359049	27.053	ng	# 81
36) 1,2-Dichloroethane	13.55	62	371562	29.045	ng	99
38) 1,1,1-Trichloroethane	13.94	97	457115	27.859	ng	96
39) Isopropyl Acetate	14.50	61	397255	54.907	ng	95
40) 1-Butanol	14.52	56	635494	53.926	ng	86
41) Benzene	14.63	78	1259548	27.037	ng	99
42) Carbon Tetrachloride	14.87	117	421677	30.109	ng	99
43) Cyclohexane	15.06	84	937139	55.130	ng	88
44) tert-Amyl Methyl Ether	15.54	73	876094	26.932	ng	95
45) 1,2-Dichloropropane	15.87	63	306869	28.266	ng	99
46) Bromodichloromethane	16.14	83	412416	28.597	ng	99
47) Trichloroethene	16.21	130	382946	27.319	ng	99
48) 1,4-Dioxane	16.16	88	277070	27.893	ng	90
49) 2,2,4-Trimethylpentane...	16.30	57	1243130	26.488	ng	97
50) Methyl Methacrylate	16.48	100	315097	58.879	ng	# 75
51) n-Heptane	16.67	71	323729	27.231	ng	93
52) cis-1,3-Dichloropropene	17.42	75	500125	27.473	ng	99
53) 4-Methyl-2-pentanone	17.46	58	295724	28.470	ng	86
54) trans-1,3-Dichloropropene	18.13	75	510258	31.303	ng	99
55) 1,1,2-Trichloroethane	18.37	97	320978	27.392	ng	94
58) Toluene	18.76	91	1436389	27.992	ng	99
59) 2-Hexanone	19.08	43	682306	27.574	ng	93
60) Dibromochloromethane	19.30	129	398304	31.100	ng	99
61) 1,2-Dibromoethane	19.64	107	374332	28.826	ng	100
62) n-Butyl Acetate	19.91	43	809286	28.573	ng	95
63) n-Octane	20.08	57	271912	28.229	ng	90
64) Tetrachloroethene	20.26	166	432078	27.278	ng	98
65) Chlorobenzene	21.13	112	963774	28.346	ng	99
66) Ethylbenzene	21.61	91	1567419	27.819	ng	96
67) m- & p-Xylenes	21.84	91	2414544	54.826	ng	95
68) Bromoform	21.92	173	374025	28.807	ng	99
69) Styrene	22.29	104	1036965	28.664	ng	96
70) o-Xylene	22.44	91	1246629	27.703	ng	95
71) n-Nonane	22.71	43	590834	27.053	ng	90
72) 1,1,2,2-Tetrachloroethane	22.41	83	571091	29.325	ng	98
74) Cumene	23.20	105	1642065	26.659	ng	98
75) alpha-Pinene	23.70	93	777579	26.865	ng	95
76) n-Propylbenzene	23.85	91	1925742	26.746	ng	95
77) 3-Ethyltoluene	23.98	105	1620324	27.837	ng	95
78) 4-Ethyltoluene	24.03	105	1618969	28.168	ng	99
79) 1,3,5-Trimethylbenzene	24.13	105	1362346	28.476	ng	94

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080916.D
 Acq On : 8 Sep 2009 23:07
 Operator : LH
 Sample : 25ng TO-15 ICV STD
 Misc : S20-09080901/S20-09030911
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 09 09:31:26 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:24:30 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.31	118	793631	28.749	ng	97
81) 2-Ethyltoluene	24.36	105	1620702	26.549	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1393895	27.316	ng	96
83) n-Decane	24.76	57	693555	25.965	ng	94
84) Benzyl Chloride	24.80	91	1229492	30.777	ng	94
85) 1,3-Dichlorobenzene	24.83	146	856849	28.842	ng	100
86) 1,4-Dichlorobenzene	24.91	146	872875	28.193	ng	99
87) sec-Butylbenzene	24.97	105	1839261	27.536	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1762108	27.218	ng	95
89) 1,2,3-Trimethylbenzene	25.17	105	1389717	27.814	ng	95
90) 1,2-Dichlorobenzene	25.34	146	808751	28.298	ng	99
91) d-Limonene	25.34	68	523902	28.584	ng	90
92) 1,2-Dibromo-3-Chloropr...	25.87	157	297080	28.867	ng	80
93) n-Undecane	26.29	57	790001	25.644	ng	93
94) 1,2,4-Trichlorobenzene	27.39	180	601594	26.814	ng	99
95) Naphthalene	27.53	128	1838498	24.806	ng	100
96) n-Dodecane	27.52	57	703749	23.181	ng	92
97) Hexachlorobutadiene	27.96	225	381315	26.922	ng	98
98) Cyclohexanone	22.02	55	438779	23.112	ng	# 90
99) tert-Butylbenzene	24.64	119	1398036	27.824	ng	98
100) n-Butylbenzene	25.68	91	1436241	28.030	ng	97

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 09080916.D

Acq. Method File: TO15LT.M

Data File Path: J:\MS16\DATA\2009_09\08\

Name: 25ng TO-15 ICV STD

Operator: LH

Misc Info: S20-09080901/S20-09030911

Date Acquired: 9/8/09 23:07

Instrument Name: GCMS-16

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.55	26.9	26.3	102.3	70	130	*
3)	Dichlorodifluoromethane (CFC	4.71	24.5	26.0	94.2	70	130	*
4)	Chloromethane	5.03	25.5	25.0	102.0	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.27	24.5	26.0	94.2	70	130	*
6)	Vinyl Chloride	5.46	23.2	25.3	91.7	70	130	*
7)	1,3-Butadiene	5.73	24.5	26.8	91.4	70	130	*
8)	Bromomethane	6.20	26.6	25.8	103.1	70	130	*
9)	Chloroethane	6.53	25.3	25.5	99.2	70	130	*
10)	Ethanol	6.90	127.5	130.0	98.1	70	130	*
11)	Acetonitrile	7.17	25.4	26.0	97.7	70	130	*
12)	Acrolein	7.37	30.6	26.3	116.3	70	130	*
13)	Acetone	7.58	136.3	132.0	103.3	70	130	*
14)	Trichlorofluoromethane	7.83	26.4	26.3	100.4	70	130	*
15)	2-Propanol (Isopropanol)	8.07	49.4	48.0	102.9	70	130	*
16)	Acrylonitrile	8.36	26.8	25.8	103.9	70	130	*
17)	1,1-Dichloroethene	8.84	29.4	27.5	106.9	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	8.99	55.1	50.0	110.2	70	130	*
19)	Methylene Chloride	9.06	26.6	26.8	99.3	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.24	30.9	27.0	114.4	70	130	*
21)	Trichlorotrifluoroethane	9.48	28.8	27.5	104.7	70	130	*
22)	Carbon Disulfide	9.42	26.8	26.0	103.1	70	130	*
23)	trans-1,2-Dichloroethene	10.48	28.9	25.5	113.3	70	130	*
24)	1,1-Dichloroethane	10.78	28.5	26.5	107.5	70	130	*
25)	Methyl tert-Butyl Ether	10.87	27.8	26.3	105.7	70	130	*
26)	Vinyl Acetate	11.04	153.4	126.0	121.7	70	130	*
27)	2-Butanone (MEK)	11.35	28.7	26.8	107.1	70	130	*
28)	cis-1,2-Dichloroethene	12.02	29.7	27.0	110.0	70	130	*
29)	Diisopropyl Ether	12.36	27.8	26.5	104.9	70	130	*
30)	Ethyl Acetate	12.36	59.3	52.0	114.0	70	130	*
31)	n-Hexane	12.37	25.7	26.0	98.8	70	130	*
32)	Chloroform	12.46	28.9	27.5	105.1	70	130	*
34)	Tetrahydrofuran (THF)	13.01	30.2	26.5	114.0	70	130	*
35)	Ethyl tert-Butyl Ether	13.15	27.1	25.5	106.3	70	130	*
36)	1,2-Dichloroethane	13.55	29.0	26.3	110.3	70	130	*
38)	1,1,1-Trichloroethane	13.94	27.9	26.0	107.3	70	130	*
39)	Isopropyl Acetate	14.50	54.9	52.3	105.0	70	130	*
40)	1-Butanol	14.52	53.9	52.8	102.1	70	130	*
41)	Benzene	14.63	27.0	25.8	104.7	70	130	*
42)	Carbon Tetrachloride	14.87	30.1	26.3	114.4	70	130	*
43)	Cyclohexane	15.06	55.1	51.8	106.4	70	130	*
44)	tert-Amyl Methyl Ether	15.54	26.9	25.5	105.5	70	130	*
45)	1,2-Dichloropropane	15.87	28.3	26.0	108.8	70	130	*
46)	Bromodichloromethane	16.14	28.6	26.3	108.7	70	130	*
47)	Trichloroethene	16.21	27.3	25.8	105.8	70	130	*
48)	1,4-Dioxane	16.16	27.9	26.0	107.3	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.30	26.5	25.8	102.7	70	130	*
50)	Methyl Methacrylate	16.48	58.9	52.8	111.6	70	130	*

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INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 09080916.D

Acq. Method File: TO15LT.M

Data File Path: J:\MS16\DATA\2009_09\08\

Name: 25ng TO-15 ICV STD

Operator: LH

Misc Info: S20-09080901/S20-09030911

Date Acquired: 9/8/09 23:07

Instrument Name: GCMS-16

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.67	27.2	25.8	105.4	70	130	*
52)	cis-1,3-Dichloropropene	17.42	27.5	24.5	112.2	70	130	*
53)	4-Methyl-2-pentanone	17.46	28.5	26.8	106.3	70	130	*
54)	trans-1,3-Dichloropropene	18.13	31.3	27.0	115.9	70	130	*
55)	1,1,2-Trichloroethane	18.37	27.4	26.0	105.4	70	130	*
58)	Toluene	18.76	28.0	26.8	104.5	70	130	*
59)	2-Hexanone	19.08	27.6	27.0	102.2	70	130	*
60)	Dibromochloromethane	19.30	31.1	28.3	109.9	70	130	*
61)	1,2-Dibromoethane	19.64	28.8	26.3	109.5	70	130	*
62)	n-Butyl Acetate	19.91	28.6	27.5	104.0	70	130	*
63)	n-Octane	20.08	28.2	26.3	107.2	70	130	*
64)	Tetrachloroethene	20.26	27.3	25.3	107.9	70	130	*
65)	Chlorobenzene	21.13	28.3	26.5	106.8	70	130	*
66)	Ethylbenzene	21.61	27.8	26.3	105.7	70	130	*
67)	m- & p-Xylenes	21.84	54.8	51.5	106.4	70	130	*
68)	Bromoform	21.92	28.8	26.5	108.7	70	130	*
69)	Styrene	22.29	28.7	26.3	109.1	70	130	*
70)	o-Xylene	22.44	27.7	26.0	106.5	70	130	*
71)	n-Nonane	22.71	27.1	25.8	105.0	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.41	29.3	27.0	108.5	70	130	*
74)	Cumene	23.20	26.7	25.3	105.5	70	130	*
75)	alpha-Pinene	23.70	26.9	24.8	108.5	70	130	*
76)	n-Propylbenzene	23.85	26.7	25.3	105.5	70	130	*
77)	3-Ethyltoluene	23.98	27.8	26.3	105.7	70	130	*
78)	4-Ethyltoluene	24.03	28.2	26.3	107.2	70	130	*
79)	1,3,5-Trimethylbenzene	24.13	28.5	26.5	107.5	70	130	*
80)	alpha-Methylstyrene	24.31	28.7	26.0	110.4	70	130	*
81)	2-Ethyltoluene	24.36	26.5	26.0	101.9	70	130	*
82)	1,2,4-Trimethylbenzene	24.64	27.3	25.5	107.1	70	130	*
83)	n-Decane	24.76	26.0	26.3	98.9	70	130	*
84)	Benzyl Chloride	24.80	30.8	26.8	114.9	70	130	*
85)	1,3-Dichlorobenzene	24.83	28.8	26.0	110.8	70	130	*
86)	1,4-Dichlorobenzene	24.91	28.2	26.3	107.2	70	130	*
87)	sec-Butylbenzene	24.97	27.5	25.8	106.6	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.17	27.2	25.0	108.8	70	130	*
89)	1,2,3-Trimethylbenzene	25.17	27.8	26.0	106.9	70	130	*
90)	1,2-Dichlorobenzene	25.34	28.3	25.8	109.7	70	130	*
91)	d-Limonene	25.34	28.6	26.5	107.9	70	130	*
92)	1,2-Dibromo-3-Chloropropane	25.87	28.9	27.0	107.0	70	130	*
93)	n-Undecane	26.29	25.6	26.3	97.3	70	130	*
94)	1,2,4-Trichlorobenzene	27.39	26.8	27.3	98.2	70	130	*
95)	Naphthalene	27.53	24.8	25.0	99.2	70	130	*
96)	n-Dodecane	27.52	23.2	24.3	95.5	70	130	*
97)	Hexachlorobutadiene	27.96	26.9	26.8	100.4	70	130	*
98)	Cyclohexanone	22.02	23.1	24.8	93.1	70	130	*
99)	tert-Butylbenzene	24.64	27.8	26.5	104.9	70	130	*
100)	n-Butylbenzene	25.68	28.0	26.5	105.7	70	130	*

* Denotes Passing Criterion

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CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR Bromochloromethane (IS1)	1.000	1.000	0.0	129	-0.02
2	T Propene	1.018	0.837	17.8	102	0.00
3	T Dichlorodifluoromethane (CF	1.946	1.613	17.1	107	0.00
4	T Chloromethane	1.594	1.460	8.4	108	-0.01
5	T 1,2-Dichloro-1,1,2,2-tetra	1.167	0.970	16.9	103	0.00
6	T Vinyl Chloride	1.530	1.353	11.6	107	-0.01
7	T 1,3-Butadiene	1.065	0.915	14.1	100	-0.01
8	T Bromomethane	1.009	0.936	7.2	109	-0.01
9	T Chloroethane	0.751	0.685	8.8	107	-0.01
10	T Ethanol	0.738	0.647	12.3	106	-0.09
11	T Acetonitrile	1.867	1.615	13.5	106	-0.04
12	T Acrolein	0.549	0.510	7.1	105	-0.02
13	T Acetone	0.744	0.628	15.6	106	-0.04
14	T Trichlorofluoromethane	1.803	1.599	11.3	106	-0.01
15	T 2-Propanol (Isopropanol)	2.561	2.311	9.8	111	-0.06
16	T Acrylonitrile	1.442	1.233	14.5	105	-0.03
17	T 1,1-Dichloroethene	1.037	0.923	11.0	107	-0.02
18	T 2-Methyl-2-Propanol (tert-B	2.647	2.401	9.3	109	-0.05
19	T Methylene Chloride	1.134	0.936	17.5	106	-0.02
20	T 3-Chloro-1-propene (Allyl C	1.329	1.254	5.6	106	-0.02
21	T Trichlorotrifluoroethane	0.888	0.821	7.5	105	-0.02
22	T Carbon Disulfide	3.932	3.442	12.5	107	-0.01
23	T trans-1,2-Dichloroethene	1.414	1.322	6.5	106	-0.02
24	T 1,1-Dichloroethane	1.789	1.587	11.3	106	-0.02
25	T Methyl tert-Butyl Ether	2.858	2.551	10.7	105	-0.02
26	T Vinyl Acetate	0.224	0.219	2.2	103	-0.04
27	T 2-Butanone (MEK)	0.714	0.634	11.2	104	-0.03
28	T cis-1,2-Dichloroethene	1.369	1.224	10.6	105	-0.02
29	T Diisopropyl Ether	0.828	0.720	13.0	103	-0.02
30	T Ethyl Acetate	0.363	0.341	6.1	104	-0.04
31	T n-Hexane	1.436	1.175	18.2	100	-0.02
32	T Chloroform	1.762	1.566	11.1	106	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.378	1.385	-0.5	129	-0.02
34	T Tetrahydrofuran (THF)	0.661	0.669	-1.2	113	-0.02
35	T Ethyl tert-Butyl Ether	1.261	1.110	12.0	103	-0.01
36	T 1,2-Dichloroethane	1.215	1.100	9.5	105	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	126	-0.01
38	T 1,1,1-Trichloroethane	0.314	0.286	8.9	106	-0.02

911

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.138	0.122	11.6	104	-0.03
40 T	1-Butanol	0.226	0.203	10.2	103	-0.06
41 T	Benzene	0.892	0.764	14.3	104	-0.02
42 T	Carbon Tetrachloride	0.268	0.259	3.4	107	-0.01
43 T	Cyclohexane	0.325	0.291	10.5	104	-0.02
44 T	tert-Amyl Methyl Ether	0.623	0.548	12.0	103	-0.02
45 T	1,2-Dichloropropane	0.208	0.187	10.1	104	-0.02
46 T	Bromodichloromethane	0.276	0.254	8.0	106	-0.02
47 T	Trichloroethene	0.268	0.233	13.1	105	-0.01
48 T	1,4-Dioxane	0.190	0.171	10.0	105	-0.02
49 T	2,2,4-Trimethylpentane (Iso	0.898	0.767	14.6	102	-0.02
50 T	Methyl Methacrylate	0.102	0.094	7.8	104	-0.02
51 T	n-Heptane	0.228	0.199	12.7	102	-0.02
52 T	cis-1,3-Dichloropropene	0.348	0.321	7.8	104	-0.02
53 T	4-Methyl-2-pentanone	0.199	0.176	11.6	104	-0.02
54 T	trans-1,3-Dichloropropene	0.312	0.297	4.8	105	-0.02
55 T	1,1,2-Trichloroethane	0.224	0.194	13.4	106	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	126	0.00
57 S	Toluene-d8 (SS2)	2.502	2.508	-0.2	127	0.00
58 T	Toluene	2.336	2.027	13.2	105	-0.01
59 T	2-Hexanone	1.127	0.982	12.9	104	-0.02
60 T	Dibromochloromethane	0.583	0.552	5.3	107	0.00
61 T	1,2-Dibromoethane	0.591	0.549	7.1	106	-0.01
62 T	n-Butyl Acetate	1.289	1.132	12.2	103	-0.02
63 T	n-Octane	0.439	0.383	12.8	103	0.00
64 T	Tetrachloroethene	0.721	0.654	9.3	106	0.00
65 T	Chlorobenzene	1.548	1.374	11.2	106	0.00
66 T	Ethylbenzene	2.565	2.282	11.0	106	0.00
67 T	m- & p-Xylenes	2.005	1.782	11.1	105	-0.01
68 T	Bromoform	0.591	0.585	1.0	107	-0.01
69 T	Styrene	1.647	1.487	9.7	105	-0.01
70 T	o-Xylene	2.049	1.808	11.8	105	-0.01
71 T	n-Nonane	0.994	0.845	15.0	102	0.00
72 T	1,1,2,2-Tetrachloroethane	0.887	0.829	6.5	106	-0.01
73 S	Bromofluorobenzene (SS3)	0.897	0.925	-3.1	125	0.00
74 T	Cumene	2.804	2.455	12.4	105	0.00
75 T	alpha-Pinene	1.318	1.192	9.6	105	0.00
76 T	n-Propylbenzene	3.278	2.908	11.3	105	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.650	2.336	11.8	106	-0.01
78 T	4-Ethyltoluene	2.617	2.300	12.1	103	0.00
79 T	1,3,5-Trimethylbenzene	2.178	1.906	12.5	104	0.00
80 T	alpha-Methylstyrene	1.257	1.153	8.3	104	-0.01
81 T	2-Ethyltoluene	2.779	2.384	14.2	104	-0.01
82 T	1,2,4-Trimethylbenzene	2.323	2.008	13.6	104	-0.01
83 T	n-Decane	1.216	0.964	20.7	102	-0.01
84 T	Benzyl Chloride	1.819	1.797	1.2	105	-0.01
85 T	1,3-Dichlorobenzene	1.352	1.221	9.7	105	-0.01
86 T	1,4-Dichlorobenzene	1.410	1.287	8.7	105	0.00
87 T	sec-Butylbenzene	3.041	2.677	12.0	104	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	2.947	2.640	10.4	104	0.00
89 T	1,2,3-Trimethylbenzene	2.275	2.021	11.2	104	-0.01
90 T	1,2-Dichlorobenzene	1.301	1.203	7.5	105	-0.01
91 T	d-Limonene	0.834	0.737	11.6	103	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.469	0.453	3.4	105	0.00
93 T	n-Undecane	1.403	1.004	28.4	56	0.00
94 T	1,2,4-Trichlorobenzene	1.021	0.948	7.1	103	0.00
95 T	Naphthalene	3.374	3.157	6.4	103	0.00
96 T	n-Dodecane	1.382	1.111	19.6	99	0.00
97 T	Hexachlorobutadiene	0.645	0.578	10.4	106	0.00
98 T	Cyclohexanone	0.864	0.684	20.8	103	-0.02
99 T	tert-Butylbenzene	2.287	2.040	10.8	104	-0.01
100 T	n-Butylbenzene	2.333	2.058	11.8	104	0.00

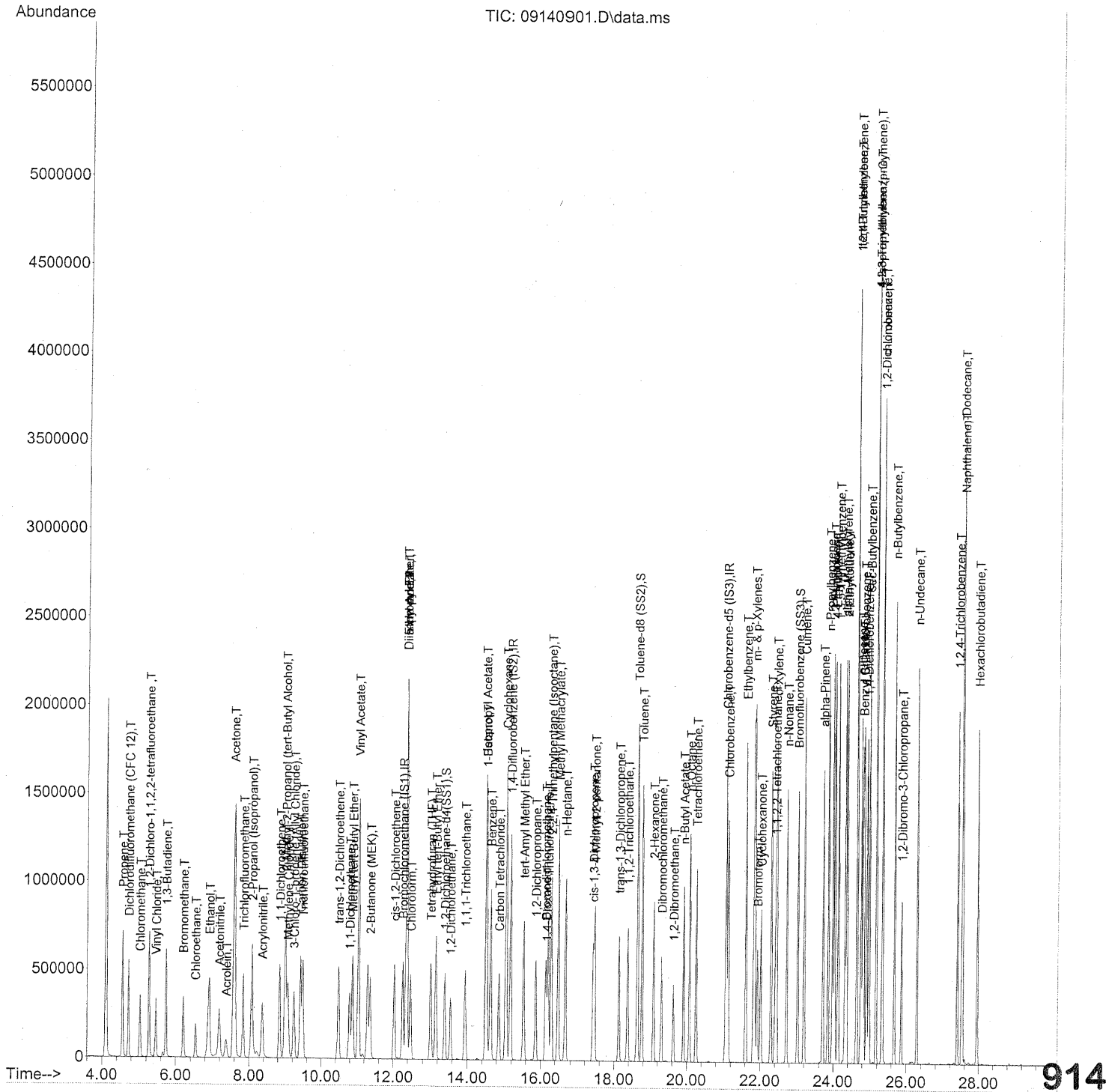
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

UH 9/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.26	130	357426	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1731876	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	717903	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.39	65	495082	25.134	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.52%	
57) Toluene-d8 (SS2)	18.63	98	1800713	25.058	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	
73) Bromofluorobenzene (SS3)	23.02	174	664057	25.787	ng	0.00
Spiked Amount	25.000		Recovery	=	103.16%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.55	42	320615	22.028	ng	99
3) Dichlorodifluoromethan...	4.72	85	606469	21.795	ng	99
4) Chloromethane	5.03	50	521916	22.900	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.27	135	367472	22.017	ng	100
6) Vinyl Chloride	5.46	62	489235	22.366	ng	99
7) 1,3-Butadiene	5.73	54	392518	25.767	ng	97
8) Bromomethane	6.20	94	341353	23.657	ng	100
9) Chloroethane	6.53	64	247804	23.079	ng	99
10) Ethanol	6.91	45	1201808m	113.899	ng	
11) Acetonitrile	7.18	41	607354	22.759	ng	99
12) Acrolein	7.37	56	197056	25.102	ng	99
13) Acetone	7.59	58	1238181	116.480	ng	89
14) Trichlorofluoromethane	7.84	101	601233	23.326	ng	99
15) 2-Propanol (Isopropanol)	8.08	45	1563018m	42.692	ng	
16) Acrylonitrile	8.36	53	467137	22.663	ng	99
17) 1,1-Dichloroethene	8.84	96	362895	24.467	ng	# 80
18) 2-Methyl-2-Propanol (t...	9.00	59	1733203	45.801	ng	98
19) Methylene Chloride	9.07	84	358639	22.124	ng	82
20) 3-Chloro-1-propene (Al...	9.24	41	484025	25.466	ng	90
21) Trichlorotrifluoroethane	9.48	151	322743	25.415	ng	85
22) Carbon Disulfide	9.42	76	1318802	23.457	ng	98
23) trans-1,2-Dichloroethene	10.48	61	500697	24.761	ng	84
24) 1,1-Dichloroethane	10.79	63	601242	23.503	ng	100
25) Methyl tert-Butyl Ether	10.87	73	995679	24.369	ng	97
26) Vinyl Acetate	11.04	86	394976	123.386	ng	# 53
27) 2-Butanone (MEK)	11.36	72	249280	24.413	ng	# 75
28) cis-1,2-Dichloroethene	12.03	61	477581	24.407	ng	84
29) Diisopropyl Ether	12.36	87	276011	23.328	ng	# 57
30) Ethyl Acetate	12.36	61	260032	50.162	ng	93
31) n-Hexane	12.36	57	458448	22.327	ng	9

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Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.47	83	600136	23.824	ng	100
34) Tetrahydrofuran (THF)	13.01	72	263159	27.849	ng	# 85
35) Ethyl tert-Butyl Ether	13.15	87	409394	22.713	ng	# 81
36) 1,2-Dichloroethane	13.55	62	416588	23.978	ng	99
38) 1,1,1-Trichloroethane	13.94	97	520276	23.915	ng	96
39) Isopropyl Acetate	14.50	61	442902	46.170	ng	96
40) 1-Butanol	14.52	56	728569	46.629	ng	87
41) Benzene	14.63	78	1403330	22.720	ng	99
42) Carbon Tetrachloride	14.87	117	483941	26.062	ng	99
43) Cyclohexane	15.06	84	1086335	48.200	ng	88
44) tert-Amyl Methyl Ether	15.54	73	987289	22.890	ng	95
45) 1,2-Dichloropropane	15.87	63	340619	23.664	ng	100
46) Bromodichloromethane	16.14	83	475380	24.861	ng	100
47) Trichloroethene	16.22	130	427121	22.981	ng	100
48) 1,4-Dioxane	16.16	88	317751	24.126	ng	88
49) 2,2,4-Trimethylpentane...	16.30	57	1381327	22.199	ng	97
50) Methyl Methacrylate	16.49	100	345523	48.696	ng	# 76
51) n-Heptane	16.67	71	365109	23.163	ng	93
52) cis-1,3-Dichloropropene	17.42	75	551334	22.842	ng	99
53) 4-Methyl-2-pentanone	17.46	58	336041	24.400	ng	87
54) trans-1,3-Dichloropropene	18.13	75	565309	26.156	ng	99
55) 1,1,2-Trichloroethane	18.37	97	354279	22.803	ng	94
58) Toluene	18.76	91	1571908	23.432	ng	99
59) 2-Hexanone	19.08	43	775784	23.982	ng	94
60) Dibromochloromethane	19.31	129	456800	27.283	ng	100
61) 1,2-Dibromoethane	19.64	107	417812	24.611	ng	100
62) n-Butyl Acetate	19.91	43	894144	24.148	ng	96
63) n-Octane	20.08	57	294391	23.378	ng	87
64) Tetrachloroethene	20.26	166	479194	23.141	ng	98
65) Chlorobenzene	21.13	112	1065170	23.964	ng	99
66) Ethylbenzene	21.61	91	1736907	23.580	ng	97
67) m- & p-Xylenes	21.85	91	2661398	46.225	ng	95
68) Bromoform	21.92	173	433492	25.539	ng	100
69) Styrene	22.29	104	1144148	24.192	ng	96
70) o-Xylene	22.44	91	1375768	23.386	ng	95
71) n-Nonane	22.72	43	642699	22.510	ng	90
72) 1,1,2,2-Tetrachloroethane	22.41	83	638249	25.069	ng	98
74) Cumene	23.20	105	1818999	22.590	ng	98
75) alpha-Pinene	23.70	93	866157	22.890	ng	96
76) n-Propylbenzene	23.85	91	2154345	22.888	ng	95
77) 3-Ethyltoluene	23.98	105	1831568	24.070	ng	98
78) 4-Ethyltoluene	24.03	105	1802820	23.993	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1494162	23.889	ng	9

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Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:49 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

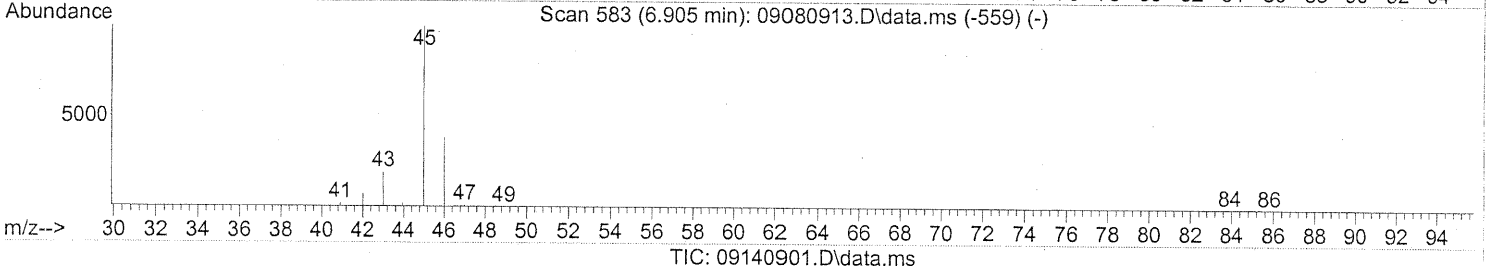
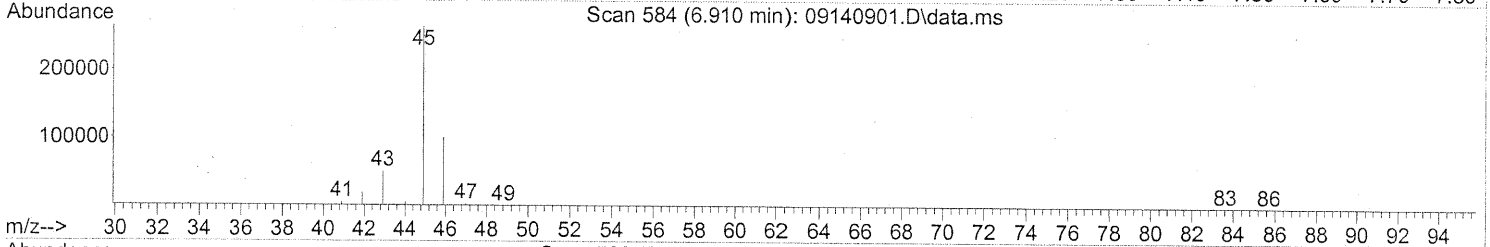
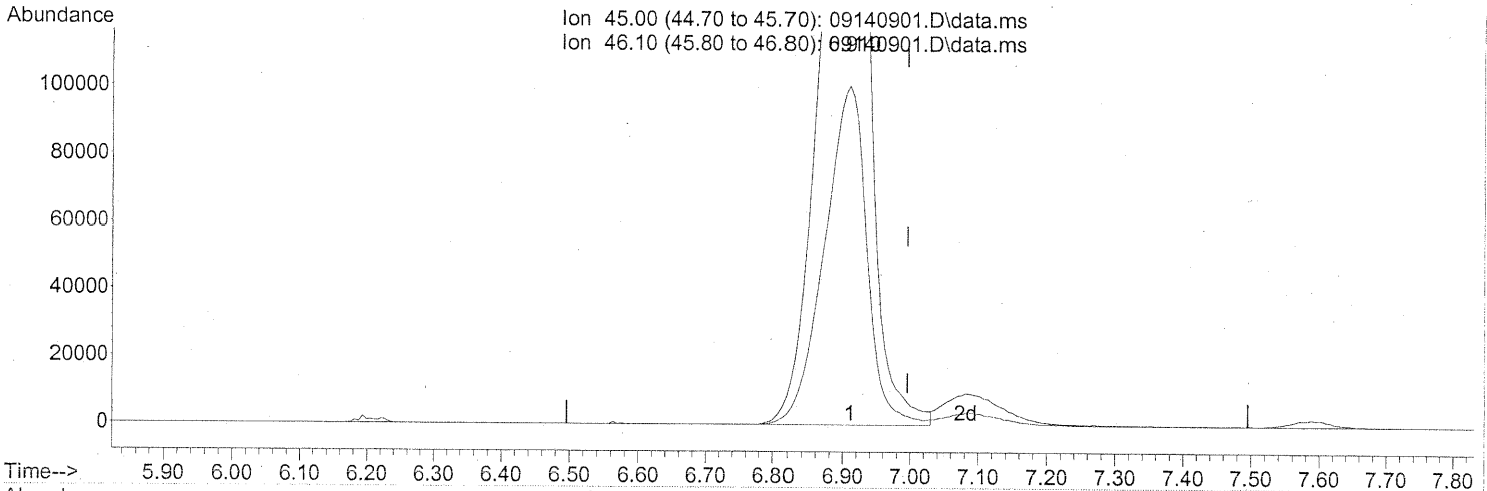
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	887695	24.597	ng	98
81) 2-Ethyltoluene	24.36	105	1800217	22.557	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1528056	22.906	ng	96
83) n-Decane	24.76	57	747594	21.409	ng	93
84) Benzyl Chloride	24.80	91	1419170	27.174	ng	94
85) 1,3-Dichlorobenzene	24.83	146	957376	24.650	ng	100
86) 1,4-Dichlorobenzene	24.92	146	979363	24.196	ng	100
87) sec-Butylbenzene	24.97	105	2037356	23.331	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1955655	23.107	ng	96
89) 1,2,3-Trimethylbenzene	25.17	105	1555198	23.809	ng	96
90) 1,2-Dichlorobenzene	25.34	146	915584	24.505	ng	100
91) d-Limonene	25.34	68	577462	24.100	ng	90
92) 1,2-Dibromo-3-Chloropr...	25.87	157	358105	26.617	ng	79
93) n-Undecane	26.29	57	786827	19.537	ng	94
94) 1,2,4-Trichlorobenzene	27.40	180	762598	26.000	ng	99
95) Naphthalene	27.54	128	2402044	24.791	ng	100
96) n-Dodecane	27.52	57	791198	19.935	ng	92
97) Hexachlorobutadiene	27.96	225	456321	24.644	ng	98
98) Cyclohexanone	22.02	55	481423	19.397	ng	# 90
99) tert-Butylbenzene	24.64	119	1552282	23.631	ng	98
100) n-Butylbenzene	25.68	91	1613242	24.083	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.910min (-0.085) 108.42ng
 response 1144021

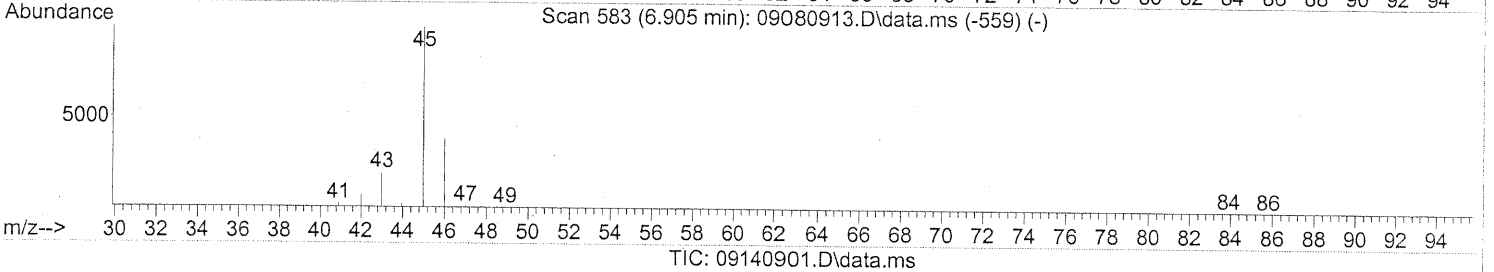
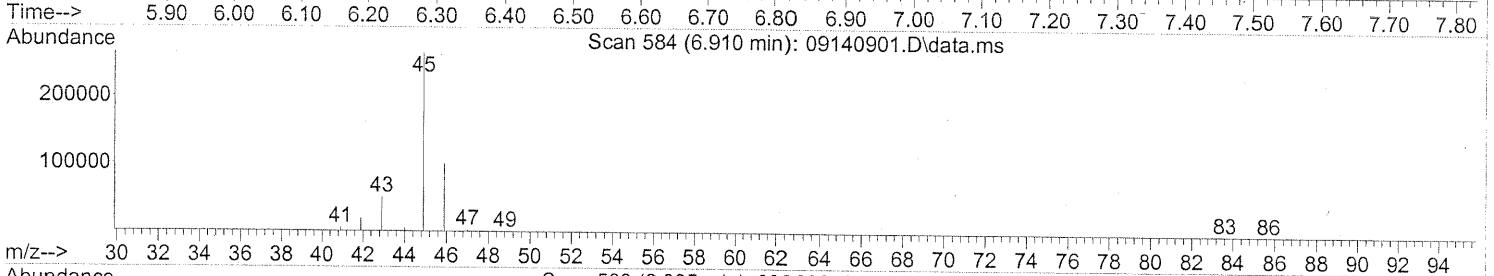
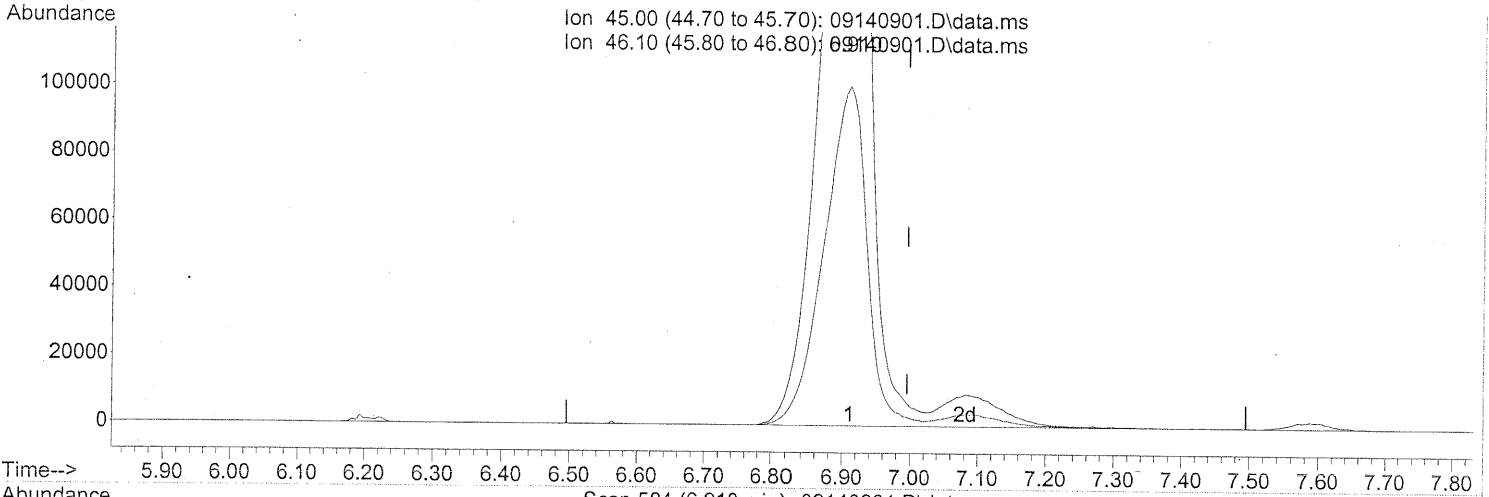
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.25
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.910min (-0.085) 113.90ng m
 response 1201808

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.41
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
LH 9/15/09

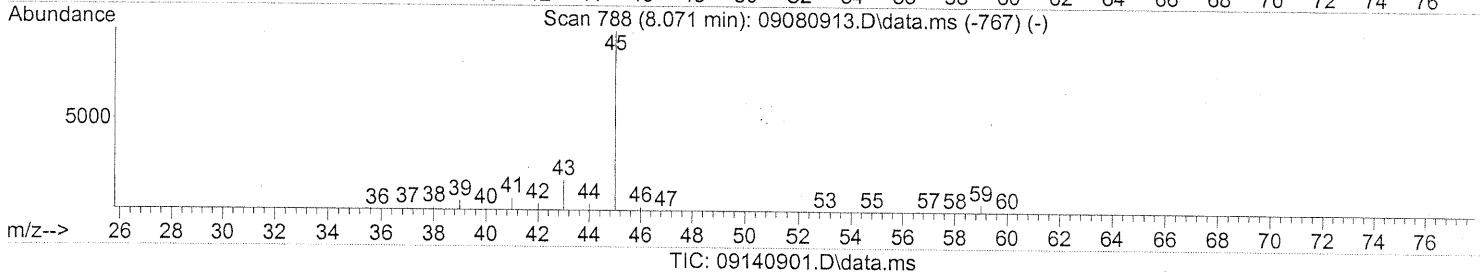
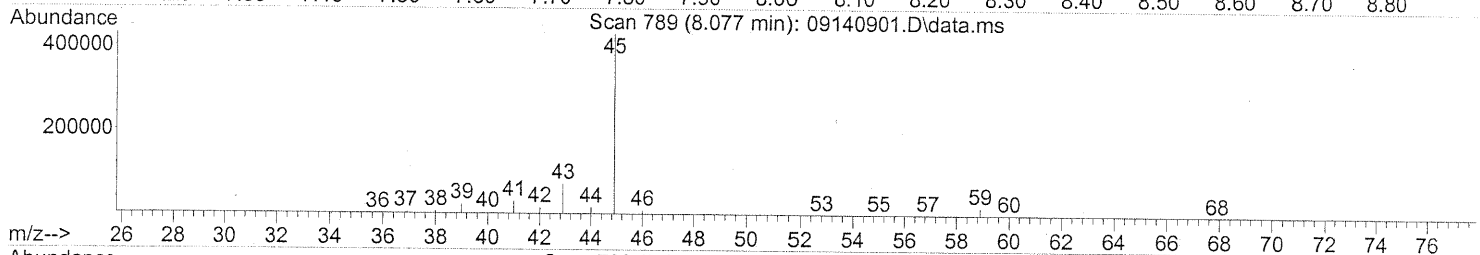
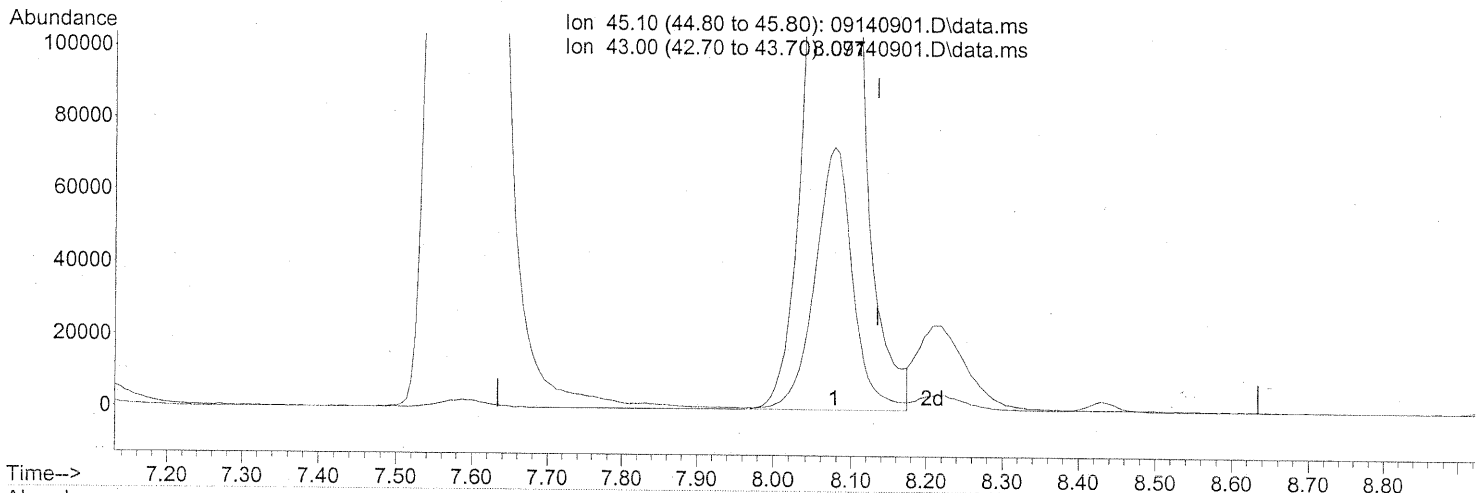
10# 9/15/09

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Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.077min (-0.057) 39.74ng

response 1454974

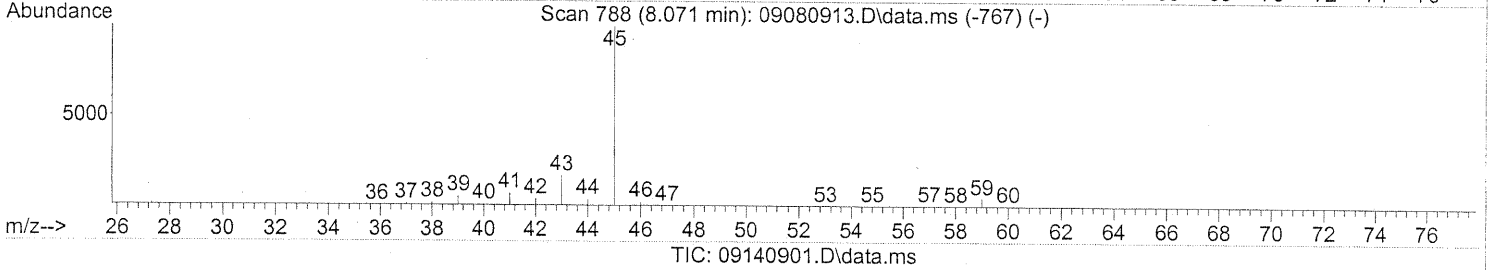
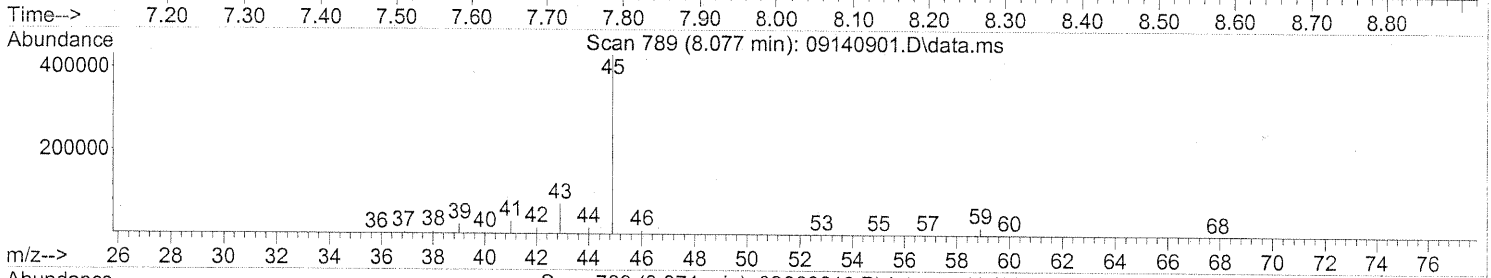
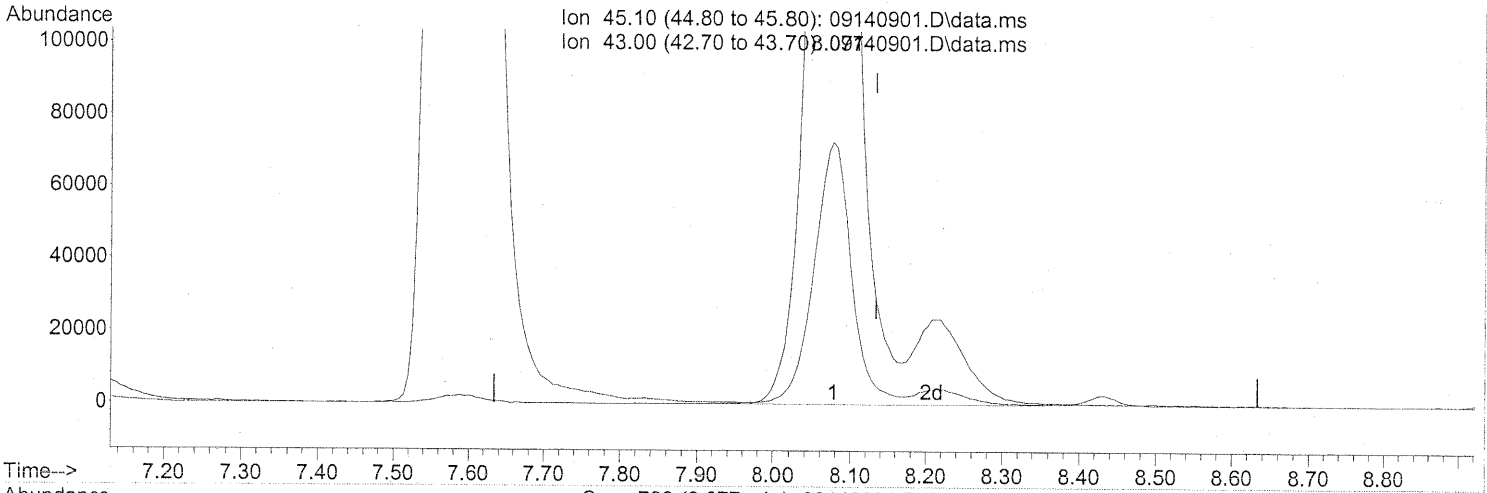
Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.93
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 14 09:02:17 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.077min (-0.057) 42.69ng m

response 1563018

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	15.76
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
in 9/15/09

PT 9/15/09

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Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR Bromochloromethane (IS1)	1.000	1.000	0.0	126	-0.02
2 T Propene	1.018	0.778	23.6	92	0.00
3 T Dichlorodifluoromethane (CF	1.946	1.552	20.2	100	0.00
4 T Chloromethane	1.594	1.292	18.9	93	0.00
5 T 1,2-Dichloro-1,1,2,2-tetra	1.167	0.936	19.8	96	0.00
6 T Vinyl Chloride	1.530	1.242	18.8	96	0.00
7 T 1,3-Butadiene	1.065	0.860	19.2	92	0.00
8 T Bromomethane	1.009	0.888	12.0	101	-0.01
9 T Chloroethane	0.751	0.628	16.4	96	-0.01
10 T Ethanol	0.738	0.583	21.0	93	-0.09
11 T Acetonitrile	1.867	1.425	23.7	91	-0.05
12 T Acrolein	0.549	0.467	14.9	93	-0.02
13 T Acetone	0.744	0.578	22.3	95	-0.03
14 T Trichlorofluoromethane	1.803	1.531	15.1	99	-0.01
15 T 2-Propanol (Isopropanol)	2.561	2.015	21.3	94	-0.06
16 T Acrylonitrile	1.442	1.122	22.2	93	-0.03
17 T 1,1-Dichloroethene	1.037	0.878	15.3	99	-0.01
18 T 2-Methyl-2-Propanol (tert-B	2.647	2.158	18.5	95	-0.05
19 T Methylene Chloride	1.134	0.878	22.6	97	-0.02
20 T 3-Chloro-1-propene (Allyl C	1.329	1.137	14.4	93	-0.02
21 T Trichlorotrifluoroethane	0.888	0.811	8.7	101	-0.01
22 T Carbon Disulfide	3.932	3.221	18.1	98	-0.01
23 T trans-1,2-Dichloroethene	1.414	1.221	13.6	95	-0.02
24 T 1,1-Dichloroethane	1.789	1.467	18.0	96	-0.02
25 T Methyl tert-Butyl Ether	2.858	2.383	16.6	95	-0.02
26 T Vinyl Acetate	0.224	0.203	9.4	93	-0.04
27 T 2-Butanone (MEK)	0.714	0.590	17.4	94	-0.03
28 T cis-1,2-Dichloroethene	1.369	1.131	17.4	95	-0.02
29 T Diisopropyl Ether	0.828	0.686	17.1	95	-0.02
30 T Ethyl Acetate	0.363	0.312	14.0	92	-0.04
31 T n-Hexane	1.436	1.095	23.7	91	-0.01
32 T Chloroform	1.762	1.475	16.3	97	-0.03
33 S 1,2-Dichloroethane-d4 (SS1)	1.378	1.328	3.6	120	-0.02
34 T Tetrahydrofuran (THF)	0.661	0.572	13.5	94	-0.02
35 T Ethyl tert-Butyl Ether	1.261	1.051	16.7	95	-0.01
36 T 1,2-Dichloroethane	1.215	1.030	15.2	96	-0.02
37 IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	122	-0.01
38 T 1,1,1-Trichloroethane	0.314	0.277	11.8	99	-0.02

922

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
39 T	Isopropyl Acetate	0.138	0.113	18.1	92	-0.02
40 T	1-Butanol	0.226	0.187	17.3	92	-0.06
41 T	Benzene	0.892	0.728	18.4	95	-0.02
42 T	Carbon Tetrachloride	0.268	0.253	5.6	100	-0.01
43 T	Cyclohexane	0.325	0.279	14.2	95	-0.02
44 T	tert-Amyl Methyl Ether	0.623	0.520	16.5	94	-0.02
45 T	1,2-Dichloropropane	0.208	0.174	16.3	93	-0.02
46 T	Bromodichloromethane	0.276	0.243	12.0	97	-0.02
47 T	Trichloroethene	0.268	0.229	14.6	99	-0.01
48 T	1,4-Dioxane	0.190	0.163	14.2	96	-0.02
49 T	2,2,4-Trimethylpentane (Iso)	0.898	0.716	20.3	91	-0.02
50 T	Methyl Methacrylate	0.102	0.091	10.8	97	-0.02
51 T	n-Heptane	0.228	0.189	17.1	93	-0.02
52 T	cis-1,3-Dichloropropene	0.348	0.305	12.4	95	-0.02
53 T	4-Methyl-2-pentanone	0.199	0.163	18.1	93	-0.02
54 T	trans-1,3-Dichloropropene	0.312	0.280	10.3	96	-0.02
55 T	1,1,2-Trichloroethane	0.224	0.186	17.0	97	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	119	0.00
57 S	Toluene-d8 (SS2)	2.502	2.518	-0.6	120	0.00
58 T	Toluene	2.336	1.967	15.8	96	-0.01
59 T	2-Hexanone	1.127	0.918	18.5	92	-0.02
60 T	Dibromochloromethane	0.583	0.548	6.0	101	0.00
61 T	1,2-Dibromoethane	0.591	0.541	8.5	99	-0.01
62 T	n-Butyl Acetate	1.289	1.055	18.2	90	-0.02
63 T	n-Octane	0.439	0.363	17.3	93	-0.01
64 T	Tetrachloroethene	0.721	0.658	8.7	101	0.00
65 T	Chlorobenzene	1.548	1.343	13.2	98	0.00
66 T	Ethylbenzene	2.565	2.216	13.6	97	0.00
67 T	m- & p-Xylenes	2.005	1.738	13.3	97	-0.01
68 T	Bromoform	0.591	0.589	0.3	102	-0.01
69 T	Styrene	1.647	1.453	11.8	97	-0.01
70 T	o-Xylene	2.049	1.760	14.1	97	-0.01
71 T	n-Nonane	0.994	0.784	21.1	89	0.00
72 T	1,1,2,2-Tetrachloroethane	0.887	0.801	9.7	97	-0.01
73 S	Bromofluorobenzene (SS3)	0.897	0.965	-7.6	124	0.00
74 T	Cumene	2.804	2.404	14.3	97	0.00
75 T	alpha-Pinene	1.318	1.160	12.0	96	0.00
76 T	n-Propylbenzene	3.278	2.827	13.8	96	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T 3-Ethyltoluene	2.650	2.295	13.4	99	-0.01
78 T 4-Ethyltoluene	2.617	2.244	14.3	95	0.00
79 T 1,3,5-Trimethylbenzene	2.178	1.867	14.3	97	0.00
80 T alpha-Methylstyrene	1.257	1.133	9.9	97	-0.01
81 T 2-Ethyltoluene	2.779	2.324	16.4	96	-0.01
82 T 1,2,4-Trimethylbenzene	2.323	1.961	15.6	97	-0.01
83 T n-Decane	1.216	0.915	24.8	92	-0.01
84 T Benzyl Chloride	1.819	1.744	4.1	96	-0.01
85 T 1,3-Dichlorobenzene	1.352	1.216	10.1	99	-0.01
86 T 1,4-Dichlorobenzene	1.410	1.281	9.1	99	0.00
87 T sec-Butylbenzene	3.041	2.623	13.7	96	-0.01
88 T 4-Isopropyltoluene (p-Cymen)	2.947	2.607	11.5	97	0.00
89 T 1,2,3-Trimethylbenzene	2.275	1.974	13.2	96	-0.01
90 T 1,2-Dichlorobenzene	1.301	1.197	8.0	99	-0.01
91 T d-Limonene	0.834	0.699	16.2	92	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.469	0.452	3.6	100	0.00
93 T n-Undecane	1.403	0.950	32.3#	50	0.00
94 T 1,2,4-Trichlorobenzene	1.021	0.965	5.5	100	0.00
95 T Naphthalene	3.374	3.119	7.6	96	0.00
96 T n-Dodecane	1.382	1.056	23.6	89	0.00
97 T Hexachlorobutadiene	0.645	0.593	8.1	103	0.00
98 T Cyclohexanone	0.864	0.645	25.3	92	-0.02
99 T tert-Butylbenzene	2.287	2.004	12.4	97	-0.01
100 T n-Butylbenzene	2.333	2.007	14.0	96	0.00

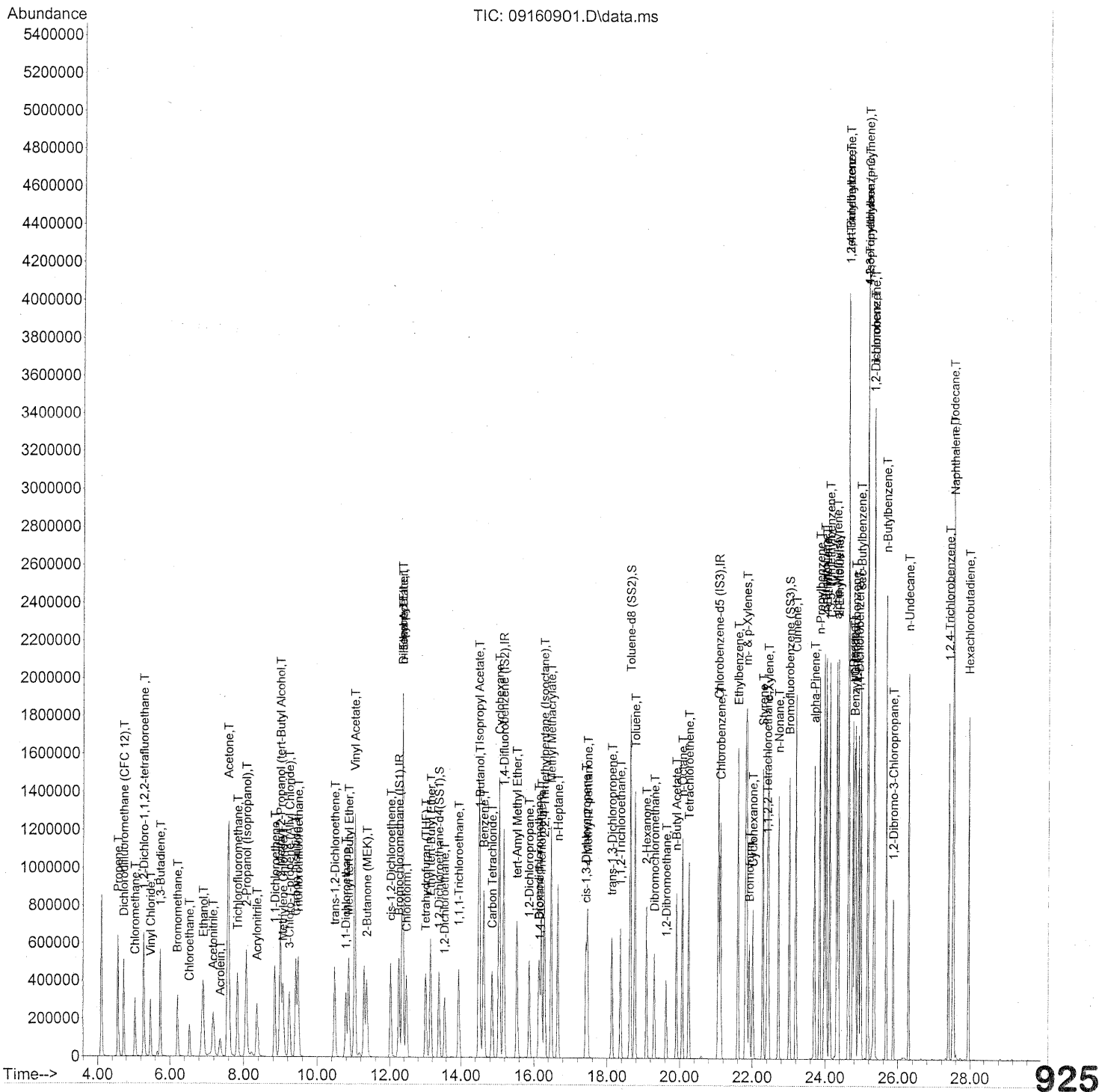
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SPCC's out = 0 CCC's out = 0

W 9/17/09

Data Path : J:\MS16\DATA\2009_09\16\
Data File : 09160901.D
Acq On : 16 Sep 2009 8:39
Operator : LH
Sample : 25ng TO-15 CCV STD
Misc : S20-09080901/S20-09030904
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
Quant Method : J:\MS16\METHODS\R16090809.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Wed Sep 09 09:31:43 2009
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\16\
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 Response via : Initial Calibration

UH 9/17/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.26	130	348293	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1664931	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	680355	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.39	65	462446	24.093	ng	-0.02
Spiked Amount	25.000		Recovery	=	96.36%	
57) Toluene-d8 (SS2)	18.63	98	1713086	25.154	ng	0.00
Spiked Amount	25.000		Recovery	=	100.60%	
73) Bromofluorobenzene (SS3)	23.02	174	656590	26.905	ng	0.00
Spiked Amount	25.000		Recovery	=	107.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	290362	20.473	ng	99
3) Dichlorodifluoromethan...	4.73	85	568723	20.974	ng	99
4) Chloromethane	5.03	50	450050	20.265	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	345385	21.236	ng	100
6) Vinyl Chloride	5.46	62	437904	20.544	ng	100
7) 1,3-Butadiene	5.74	54	359463	24.216	ng	96
8) Bromomethane	6.20	94	315302	22.424	ng	100
9) Chloroethane	6.53	64	221225	21.144	ng	99
10) Ethanol	6.91	45	1056092m	102.714	ng	
11) Acetonitrile	7.18	41	521976	20.072	ng	99
12) Acrolein	7.38	56	175750	22.975	ng	100
13) Acetone	7.59	58	1111899	107.343	ng	88
14) Trichlorofluoromethane	7.84	101	561083	22.339	ng	100
15) 2-Propanol (Isopropanol)	8.08	45	1328149m	37.228	ng	
16) Acrylonitrile	8.36	53	414323	20.628	ng	99
17) 1,1-Dichloroethene	8.85	96	336439	23.278	ng	# 77
18) 2-Methyl-2-Propanol (t...	8.99	59	1518033	41.167	ng	98
19) Methylene Chloride	9.07	84	327951	20.761	ng	# 79
20) 3-Chloro-1-propene (Al...	9.24	41	427634	23.089	ng	87
21) Trichlorotrifluoroethane	9.49	151	310744	25.112	ng	83
22) Carbon Disulfide	9.42	76	1202737	21.953	ng	99
23) trans-1,2-Dichloroethene	10.48	61	450825	22.879	ng	83
24) 1,1-Dichloroethane	10.79	63	541616	21.727	ng	100
25) Methyl tert-Butyl Ether	10.87	73	906303	22.763	ng	96
26) Vinyl Acetate	11.04	86	356125	114.167	ng	# 45
27) 2-Butanone (MEK)	11.36	72	226105	22.724	ng	# 72
28) cis-1,2-Dichloroethene	12.03	61	430288	22.566	ng	81
29) Diisopropyl Ether	12.36	87	255976	22.202	ng	# 50
30) Ethyl Acetate	12.36	61	231813	45.891	ng	92
31) n-Hexane	12.37	57	416566	20.819	ng	92

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Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
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 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.47	83	550718	22.435	ng	99
34) Tetrahydrofuran (THF)	13.01	72	219205	23.806	ng #	81
35) Ethyl tert-Butyl Ether	13.15	87	377610	21.499	ng #	79
36) 1,2-Dichloroethane	13.55	62	380345	22.466	ng	99
38) 1,1,1-Trichloroethane	13.94	97	485808	23.229	ng	95
39) Isopropyl Acetate	14.50	61	394316	42.758	ng	95
40) 1-Butanol	14.52	56	645910	43.001	ng	87
41) Benzene	14.63	78	1285238	21.645	ng	99
42) Carbon Tetrachloride	14.87	117	454491	25.460	ng	99
43) Cyclohexane	15.06	84	1000171	46.161	ng	86
44) tert-Amyl Methyl Ether	15.54	73	900641	21.721	ng	94
45) 1,2-Dichloropropane	15.87	63	304460	22.002	ng	100
46) Bromodichloromethane	16.14	83	436343	23.737	ng	100
47) Trichloroethene	16.22	130	403918	22.607	ng	100
48) 1,4-Dioxane	16.16	88	290292	22.927	ng	87
49) 2,2,4-Trimethylpentane...	16.30	57	1240484	20.737	ng	97
50) Methyl Methacrylate	16.49	100	321907	47.192	ng #	73
51) n-Heptane	16.67	71	333417	22.003	ng	91
52) cis-1,3-Dichloropropene	17.42	75	503493	21.699	ng	99
53) 4-Methyl-2-pentanone	17.46	58	299347	22.609	ng	84
54) trans-1,3-Dichloropropene	18.13	75	512528	24.668	ng	99
55) 1,1,2-Trichloroethane	18.37	97	326356	21.850	ng	94
58) Toluene	18.76	91	1445525	22.737	ng	99
59) 2-Hexanone	19.08	43	687134	22.413	ng	93
60) Dibromochloromethane	19.31	129	429647	27.078	ng	99
61) 1,2-Dibromoethane	19.64	107	389807	24.228	ng	99
62) n-Butyl Acetate	19.91	43	789379	22.495	ng	95
63) n-Octane	20.07	57	264506	22.164	ng	85
64) Tetrachloroethene	20.26	166	456763	23.275	ng	98
65) Chlorobenzene	21.13	112	986713	23.424	ng	98
66) Ethylbenzene	21.61	91	1598316	22.896	ng	97
67) m- & p-Xylenes	21.85	91	2459066	45.068	ng	95
68) Bromoform	21.92	173	413623	25.713	ng	99
69) Styrene	22.29	104	1059434	23.638	ng	96
70) o-Xylene	22.44	91	1269040	22.763	ng	95
71) n-Nonane	22.72	43	565532	20.900	ng	88
72) 1,1,2,2-Tetrachloroethane	22.41	83	584050	24.206	ng	98
74) Cumene	23.20	105	1687704	22.116	ng	98
75) alpha-Pinene	23.70	93	798700	22.272	ng	96
76) n-Propylbenzene	23.85	91	1985217	22.255	ng	95
77) 3-Ethyltoluene	23.98	105	1705211	23.646	ng	98
78) 4-Ethyltoluene	24.03	105	1667267	23.414	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1386739	23.396	ng	99

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Data Path : J:\MS16\DATA\2009_09\16\
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 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:13:18 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

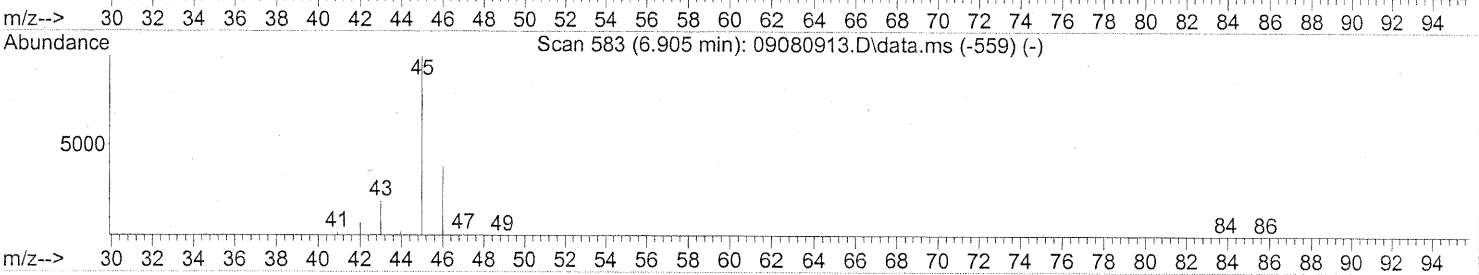
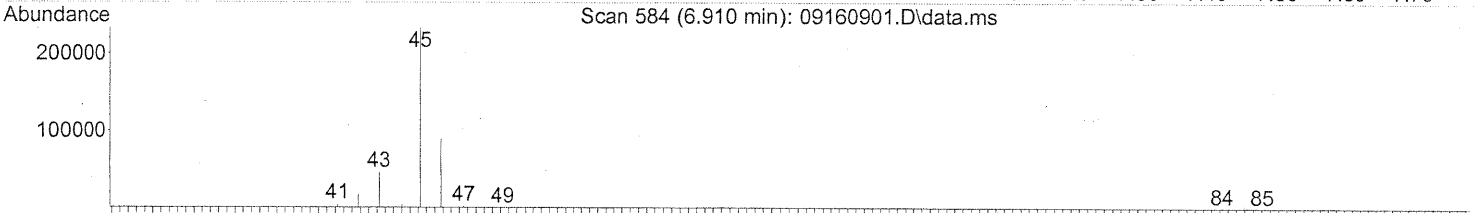
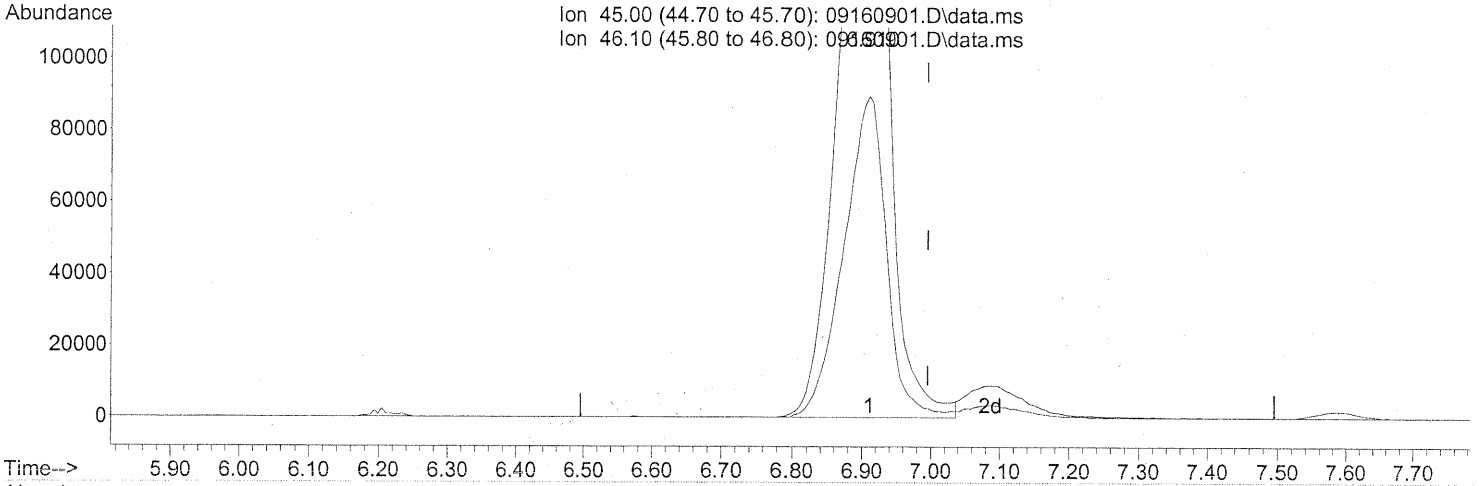
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	826417	24.163	ng	97
81) 2-Ethyltoluene	24.36	105	1663654	21.996	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1414012	22.366	ng	95
83) n-Decane	24.76	57	672470	20.320	ng	92
84) Benzyl Chloride	24.80	91	1305310	26.373	ng	94
85) 1,3-Dichlorobenzene	24.83	146	903420	24.545	ng	100
86) 1,4-Dichlorobenzene	24.92	146	923893	24.086	ng	100
87) sec-Butylbenzene	24.97	105	1891937	22.862	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1830127	22.817	ng	96
89) 1,2,3-Trimethylbenzene	25.17	105	1439648	23.256	ng	95
90) 1,2-Dichlorobenzene	25.34	146	863120	24.376	ng	100
91) d-Limonene	25.34	68	519084	22.859	ng	87
92) 1,2-Dibromo-3-Chloropr...	25.87	157	338119	26.519	ng #	77
93) n-Undecane	26.29	57	706125	18.500	ng	92
94) 1,2,4-Trichlorobenzene	27.40	180	735603	26.464	ng	100
95) Naphthalene	27.54	128	2249413	24.497	ng	99
96) n-Dodecane	27.52	57	712382	18.940	ng	90
97) Hexachlorobutadiene	27.96	225	443927	25.298	ng	99
98) Cyclohexanone	22.02	55	429778	18.272	ng #	88
99) tert-Butylbenzene	24.64	119	1445309	23.217	ng	98
100) n-Butylbenzene	25.68	91	1490902	23.485	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:12:42 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09160901.D\data.ms

(10) Ethanol (T)
 6.910min (-0.085) 97.58ng
 response 1003304

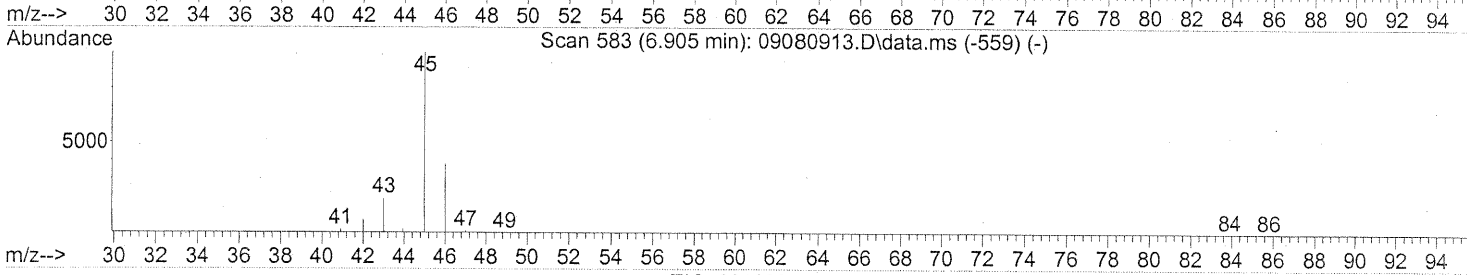
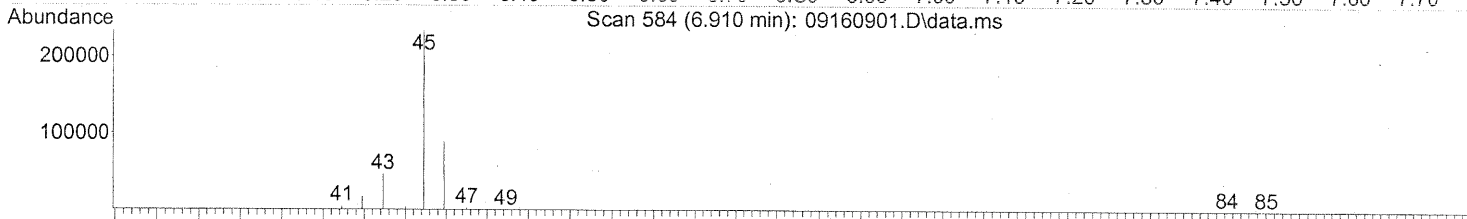
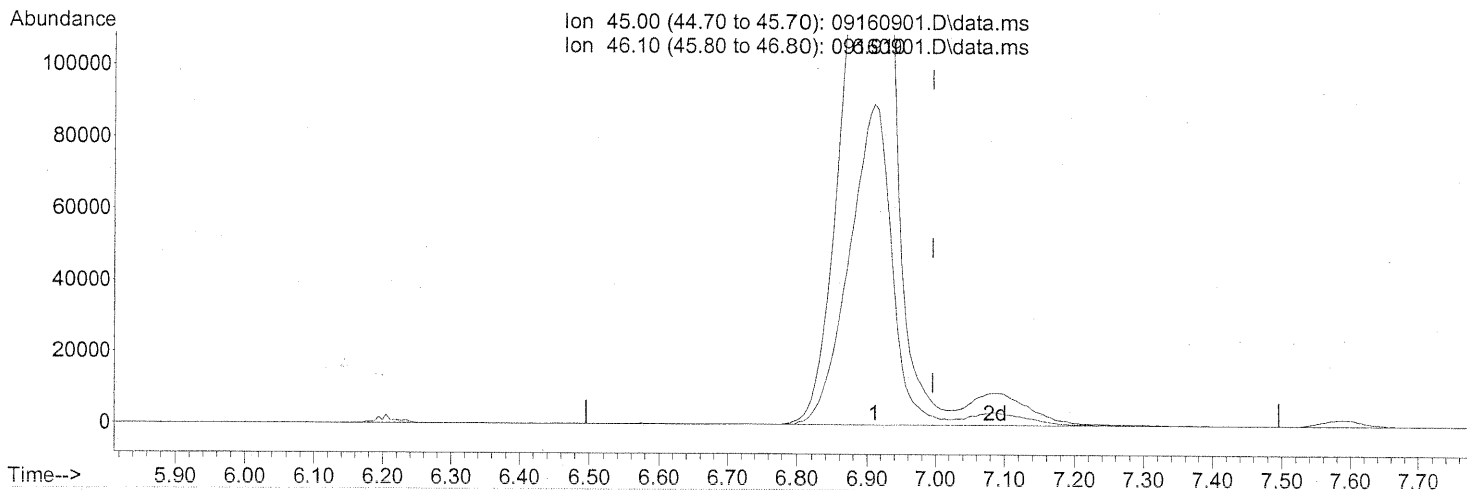
PT

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	38.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 6.910min (-0.085) 102.71ng m
 response 1056092

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	36.44
0.00	0.00	0.00
0.00	0.00	0.00

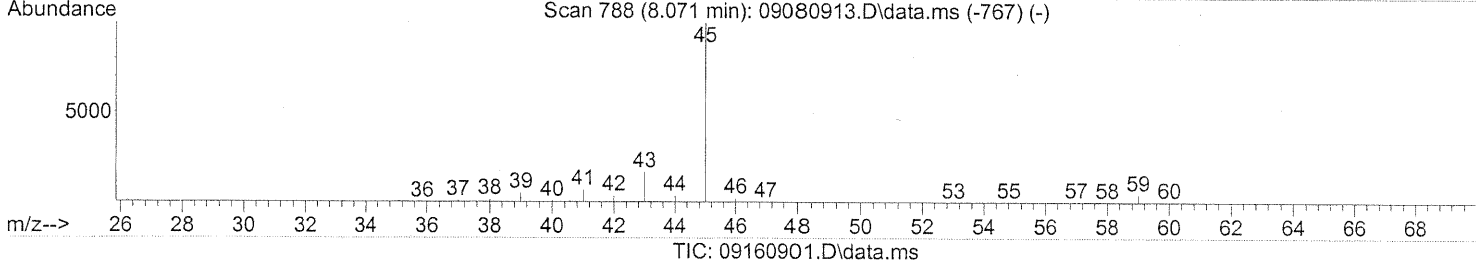
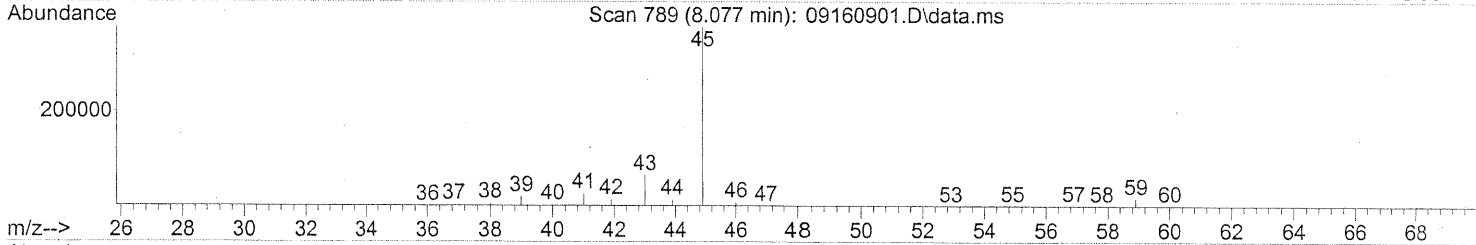
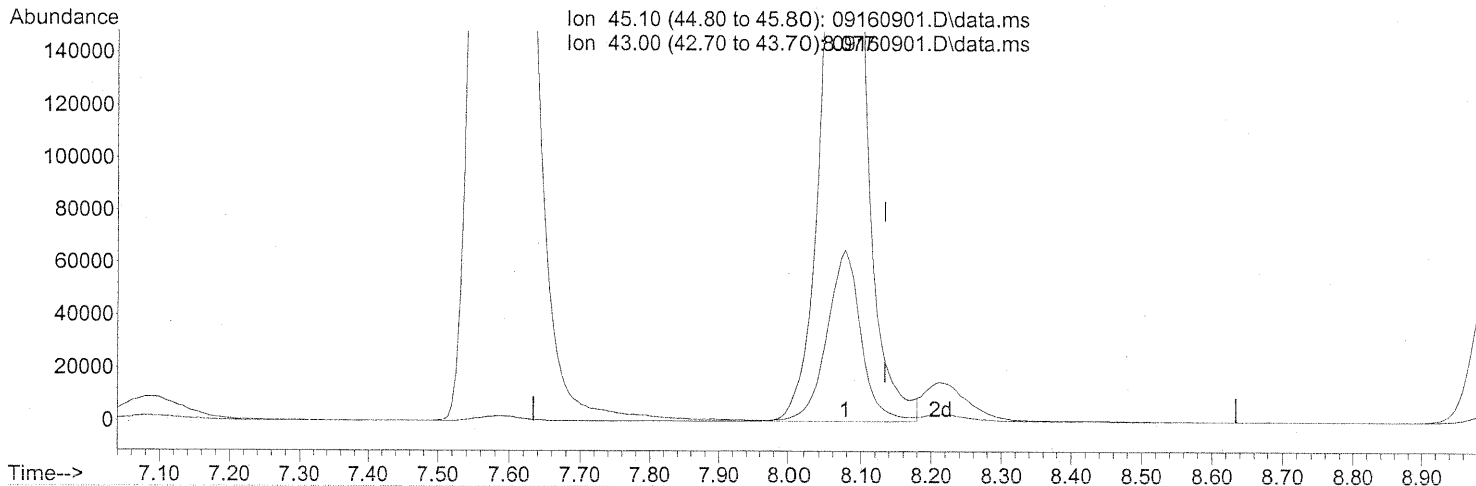
PT → *IC*
WA 9/17/09

9/17/09

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
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(15) 2-Propanol (Isopropanol) (T)

8.077min (-0.057) 35.37ng

PT

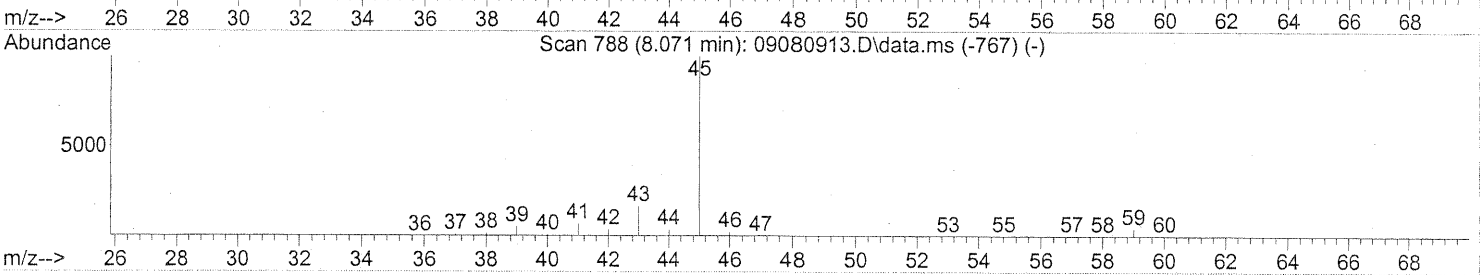
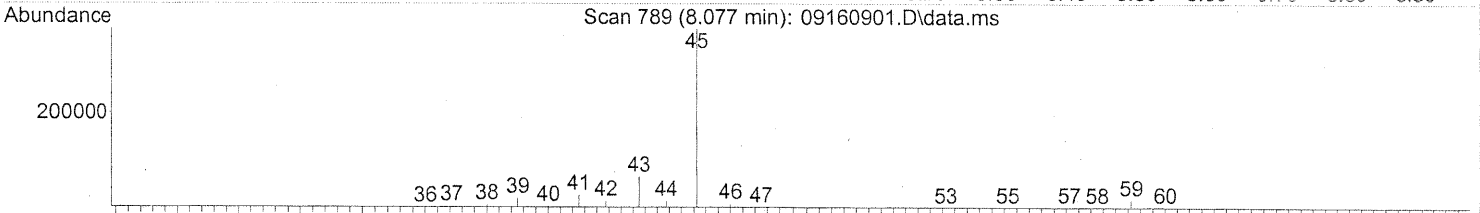
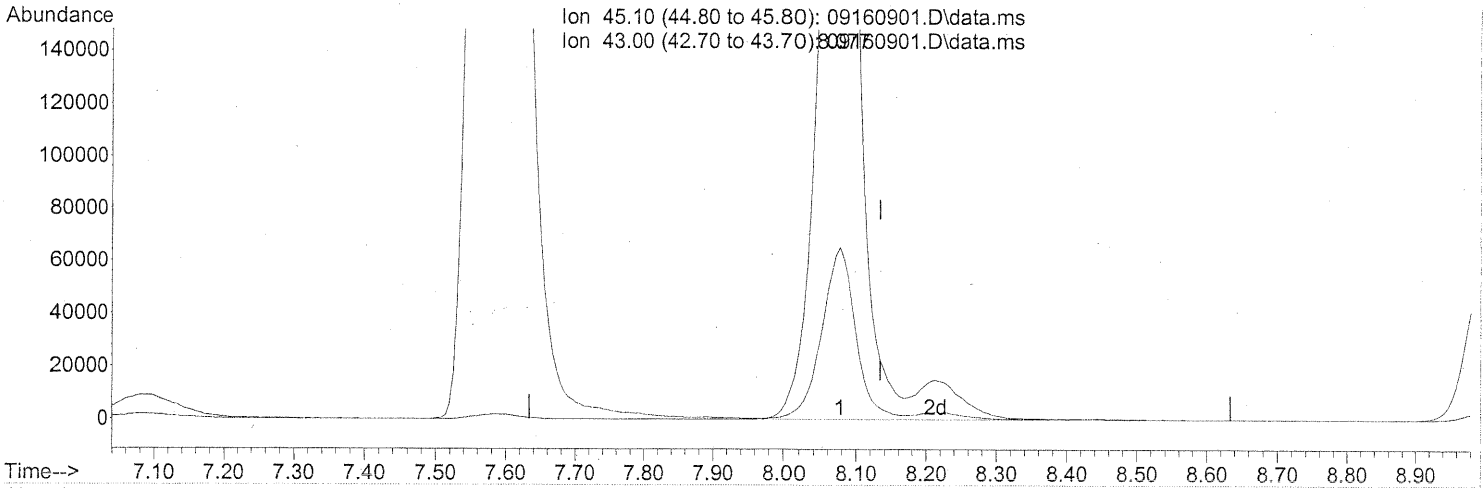
response 1261973

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	17.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 16 11:12:42 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(15) 2-Propanol (Isopropanol) (T)

8.077min (-0.057) 37.23ng m

response 1328149

Ion	Exp%	Act%
45.10	100	100
43.00	17.40	16.27
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 on 9/17/09*

DA 9/17/09

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	122	-0.02
2 T	Propene	1.018	0.774	24.0	89	0.00
3 T	Dichlorodifluoromethane (CF	1.946	1.513	22.3	95	0.00
4 T	Chloromethane	1.594	1.297	18.6	91	0.00
5 T	1,2-Dichloro-1,1,2,2-tetra	1.167	0.921	21.1	92	0.00
6 T	Vinyl Chloride	1.530	1.224	20.0	91	0.00
7 T	1,3-Butadiene	1.065	0.840	21.1	87	0.00
8 T	Bromomethane	1.009	0.889	11.9	98	0.00
9 T	Chloroethane	0.751	0.605	19.4	90	0.00
10 T	Ethanol	0.738	0.580	21.4	89	-0.09
11 T	Acetonitrile	1.867	1.426	23.6	88	-0.04
12 T	Acrolein	0.549	0.471	14.2	91	-0.02
13 T	Acetone	0.744	0.575	22.7	92	-0.03
14 T	Trichlorofluoromethane	1.803	1.550	14.0	97	0.00
15 T	2-Propanol (Isopropanol)	2.561	1.952	23.8	89	-0.06
16 T	Acrylonitrile	1.442	1.118	22.5	90	-0.03
17 T	1,1-Dichloroethene	1.037	0.881	15.0	96	-0.01
18 T	2-Methyl-2-Propanol (tert-B	2.647	2.151	18.7	92	-0.05
19 T	Methylene Chloride	1.134	0.890	21.5	95	-0.01
20 T	3-Chloro-1-propene (Allyl C	1.329	1.142	14.1	91	-0.02
21 T	Trichlorotrifluoroethane	0.888	0.812	8.6	98	-0.01
22 T	Carbon Disulfide	3.932	3.226	18.0	95	0.00
23 T	trans-1,2-Dichloroethene	1.414	1.225	13.4	93	-0.02
24 T	1,1-Dichloroethane	1.789	1.476	17.5	94	-0.02
25 T	Methyl tert-Butyl Ether	2.858	2.374	16.9	92	-0.01
26 T	Vinyl Acetate	0.224	0.200	10.7	89	-0.03
27 T	2-Butanone (MEK)	0.714	0.595	16.7	92	-0.03
28 T	cis-1,2-Dichloroethene	1.369	1.136	17.0	92	-0.02
29 T	Diisopropyl Ether	0.828	0.681	17.8	92	-0.01
30 T	Ethyl Acetate	0.363	0.314	13.5	90	-0.03
31 T	n-Hexane	1.436	1.082	24.7	87	-0.01
32 T	Chloroform	1.762	1.490	15.4	95	-0.03
33 S	1,2-Dichloroethane-d4 (SS1)	1.378	1.332	3.3	117	-0.02
34 T	Tetrahydrofuran (THF)	0.661	0.575	13.0	92	-0.02
35 T	Ethyl tert-Butyl Ether	1.261	1.049	16.8	92	-0.01
36 T	1,2-Dichloroethane	1.215	1.039	14.5	94	-0.02
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	118	-0.01
38 T	1,1,1-Trichloroethane	0.314	0.277	11.8	96	-0.01

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Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39 T	Isopropyl Acetate	0.138	0.113	18.1	90	-0.02
40 T	1-Butanol	0.226	0.189	16.4	90	-0.06
41 T	Benzene	0.892	0.729	18.3	93	-0.01
42 T	Carbon Tetrachloride	0.268	0.252	6.0	98	-0.01
43 T	Cyclohexane	0.325	0.277	14.8	92	-0.01
44 T	tert-Amyl Methyl Ether	0.623	0.519	16.7	92	-0.02
45 T	1,2-Dichloropropane	0.208	0.175	15.9	91	-0.02
46 T	Bromodichloromethane	0.276	0.243	12.0	95	-0.01
47 T	Trichloroethene	0.268	0.229	14.6	97	-0.01
48 T	1,4-Dioxane	0.190	0.163	14.2	94	-0.02
49 T	2,2,4-Trimethylpentane (Iso	0.898	0.712	20.7	88	-0.01
50 T	Methyl Methacrylate	0.102	0.091	10.8	94	-0.02
51 T	n-Heptane	0.228	0.187	18.0	90	-0.01
52 T	cis-1,3-Dichloropropene	0.348	0.306	12.1	93	-0.01
53 T	4-Methyl-2-pentanone	0.199	0.164	17.6	91	-0.02
54 T	trans-1,3-Dichloropropene	0.312	0.283	9.3	94	-0.01
55 T	1,1,2-Trichloroethane	0.224	0.188	16.1	96	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	117	0.00
57 S	Toluene-d8 (SS2)	2.502	2.496	0.2	117	0.00
58 T	Toluene	2.336	1.964	15.9	94	-0.01
59 T	2-Hexanone	1.127	0.917	18.6	90	-0.02
60 T	Dibromochloromethane	0.583	0.550	5.7	99	0.00
61 T	1,2-Dibromoethane	0.591	0.540	8.6	97	-0.01
62 T	n-Butyl Acetate	1.289	1.057	18.0	89	-0.01
63 T	n-Octane	0.439	0.364	17.1	91	0.00
64 T	Tetrachloroethene	0.721	0.659	8.6	99	0.00
65 T	Chlorobenzene	1.548	1.348	12.9	97	0.00
66 T	Ethylbenzene	2.565	2.234	12.9	96	0.00
67 T	m- & p-Xylenes	2.005	1.756	12.4	96	-0.01
68 T	Bromoform	0.591	0.595	-0.7	101	-0.01
69 T	Styrene	1.647	1.476	10.4	97	-0.01
70 T	o-Xylene	2.049	1.780	13.1	96	-0.01
71 T	n-Nonane	0.994	0.792	20.3	89	0.00
72 T	1,1,2,2-Tetrachloroethane	0.887	0.805	9.2	95	-0.01
73 S	Bromofluorobenzene (SS3)	0.897	0.971	-8.2	122	0.00
74 T	Cumene	2.804	2.426	13.5	96	0.00
75 T	alpha-Pinene	1.318	1.171	11.2	95	0.00
76 T	n-Propylbenzene	3.278	2.853	13.0	95	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.650	2.320	12.5	98	-0.01
78 T	4-Ethyltoluene	2.617	2.258	13.7	94	0.00
79 T	1,3,5-Trimethylbenzene	2.178	1.879	13.7	96	0.00
80 T	alpha-Methylstyrene	1.257	1.141	9.2	96	-0.01
81 T	2-Ethyltoluene	2.779	2.354	15.3	96	-0.01
82 T	1,2,4-Trimethylbenzene	2.323	1.968	15.3	95	-0.01
83 T	n-Decane	1.216	0.919	24.4	90	-0.01
84 T	Benzyl Chloride	1.819	1.748	3.9	95	-0.01
85 T	1,3-Dichlorobenzene	1.352	1.225	9.4	98	-0.01
86 T	1,4-Dichlorobenzene	1.410	1.288	8.7	98	0.00
87 T	sec-Butylbenzene	3.041	2.645	13.0	95	-0.01
88 T	4-Isopropyltoluene (p-Cymen	2.947	2.622	11.0	96	0.00
89 T	1,2,3-Trimethylbenzene	2.275	1.997	12.2	95	-0.01
90 T	1,2-Dichlorobenzene	1.301	1.198	7.9	97	-0.01
91 T	d-Limonene	0.834	0.705	15.5	91	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.469	0.457	2.6	99	0.00
93 T	n-Undecane	1.403	0.954	32.0#	50#	0.00
94 T	1,2,4-Trichlorobenzene	1.021	0.969	5.1	98	0.00
95 T	Naphthalene	3.374	3.125	7.4	94	0.00
96 T	n-Dodecane	1.382	1.064	23.0	88	0.00
97 T	Hexachlorobutadiene	0.645	0.599	7.1	102	0.00
98 T	Cyclohexanone	0.864	0.650	24.8	91	-0.02
99 T	tert-Butylbenzene	2.287	2.019	11.7	96	-0.01
100 T	n-Butylbenzene	2.333	2.018	13.5	95	0.00

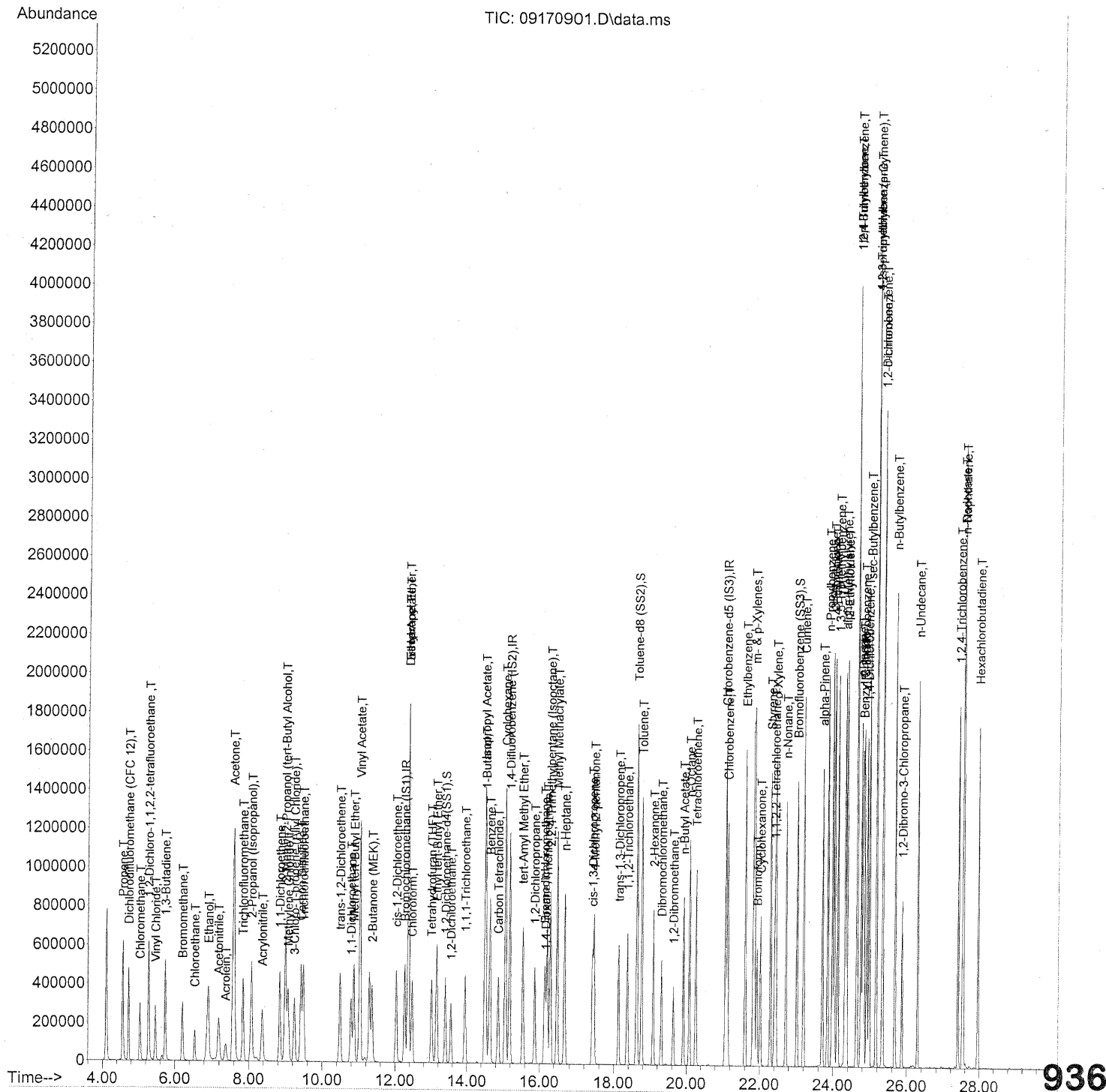
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

W 9/18/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.27	130	337733	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.19	114	1622125	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.07	82	667008	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.40	65	449978	24.177	ng	-0.02
Spiked Amount	25.000		Recovery =	96.72%		
57) Toluene-d8 (SS2)	18.63	98	1664656	24.932	ng	0.00
Spiked Amount	25.000		Recovery =	99.72%		
73) Bromofluorobenzene (SS3)	23.02	174	647525	27.064	ng	0.00
Spiked Amount	25.000		Recovery =	108.24%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.56	42	280284	20.380	ng	99
3) Dichlorodifluoromethan...	4.73	85	537693	20.450	ng	99
4) Chloromethane	5.03	50	438139	20.345	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.28	135	329596	20.899	ng	99
6) Vinyl Chloride	5.46	62	418253	20.236	ng	99
7) 1,3-Butadiene	5.74	54	340578	23.661	ng	96
8) Bromomethane	6.21	94	306181	22.456	ng	100
9) Chloroethane	6.54	64	206758	20.379	ng	98
10) Ethanol	6.91	45	1018374m	102.142	ng	
11) Acetonitrile	7.18	41	506474	20.085	ng	100
12) Acrolein	7.38	56	171945	23.180	ng	98
13) Acetone	7.59	58	1072301	106.757	ng	88
14) Trichlorofluoromethane	7.84	101	550613	22.608	ng	99
15) 2-Propanol (Isopropanol)	8.08	45	1247097	36.049	ng	100
16) Acrylonitrile	8.37	53	400085	20.541	ng	99
17) 1,1-Dichloroethene	8.85	96	327116	23.341	ng	# 77
18) 2-Methyl-2-Propanol (t...	9.00	59	1467415	41.039	ng	98
19) Methylene Chloride	9.07	84	322097	21.028	ng	# 77
20) 3-Chloro-1-propene (Al...	9.24	41	416523	23.192	ng	87
21) Trichlorotrifluoroethane	9.49	151	301605	25.135	ng	# 82
22) Carbon Disulfide	9.43	76	1168006	21.986	ng	99
23) trans-1,2-Dichloroethene	10.48	61	438531	22.951	ng	82
24) 1,1-Dichloroethane	10.79	63	528372	21.859	ng	100
25) Methyl tert-Butyl Ether	10.87	73	875655	22.681	ng	96
26) Vinyl Acetate	11.04	86	340107	112.441	ng	# 48
27) 2-Butanone (MEK)	11.37	72	221064	22.912	ng	# 71
28) cis-1,2-Dichloroethene	12.03	61	419111	22.667	ng	81
29) Diisopropyl Ether	12.36	87	246479	22.046	ng	# 51
30) Ethyl Acetate	12.37	61	225747	46.087	ng	92
31) n-Hexane	12.37	57	399169	20.573	ng	92

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Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.47	83	539409	22.662	ng	100
34) Tetrahydrofuran (THF)	13.01	72	213687	23.932	ng	# 81
35) Ethyl tert-Butyl Ether	13.15	87	365624	21.467	ng	# 79
36) 1,2-Dichloroethane	13.56	62	371841	22.651	ng	98
38) 1,1,1-Trichloroethane	13.95	97	472563	23.192	ng	96
39) Isopropyl Acetate	14.50	61	383955	42.734	ng	95
40) 1-Butanol	14.53	56	635942	43.454	ng	87
41) Benzene	14.64	78	1253883	21.674	ng	99
42) Carbon Tetrachloride	14.87	117	441704	25.397	ng	99
43) Cyclohexane	15.07	84	968638	45.886	ng	86
44) tert-Amyl Methyl Ether	15.54	73	876393	21.694	ng	94
45) 1,2-Dichloropropane	15.87	63	297922	22.098	ng	100
46) Bromodichloromethane	16.14	83	426166	23.796	ng	99
47) Trichloroethene	16.22	130	393737	22.618	ng	99
48) 1,4-Dioxane	16.17	88	284298	23.046	ng	86
49) 2,2,4-Trimethylpentane...	16.31	57	1201801	20.620	ng	97
50) Methyl Methacrylate	16.49	100	313336	47.147	ng	# 73
51) n-Heptane	16.68	71	322139	21.820	ng	91
52) cis-1,3-Dichloropropene	17.42	75	492695	21.794	ng	99
53) 4-Methyl-2-pentanone	17.46	58	292680	22.689	ng	85
54) trans-1,3-Dichloropropene	18.13	75	505004	24.947	ng	99
55) 1,1,2-Trichloroethane	18.37	97	320711	22.039	ng	94
58) Toluene	18.76	91	1414895	22.701	ng	99
59) 2-Hexanone	19.08	43	672552	22.377	ng	93
60) Dibromochloromethane	19.31	129	422280	27.146	ng	99
61) 1,2-Dibromoethane	19.64	107	381922	24.213	ng	100
62) n-Butyl Acetate	19.91	43	775878	22.553	ng	95
63) n-Octane	20.08	57	260116	22.233	ng	85
64) Tetrachloroethene	20.26	166	448282	23.300	ng	98
65) Chlorobenzene	21.13	112	971359	23.521	ng	98
66) Ethylbenzene	21.61	91	1579526	23.080	ng	96
67) m- & p-Xylenes	21.85	91	2436510	45.548	ng	95
68) Bromoform	21.92	173	409565	25.970	ng	99
69) Styrene	22.29	104	1055216	24.015	ng	96
70) o-Xylene	22.44	91	1258435	23.024	ng	95
71) n-Nonane	22.72	43	559905	21.107	ng	88
72) 1,1,2,2-Tetrachloroethane	22.41	83	575700	24.338	ng	98
74) Cumene	23.20	105	1669636	22.317	ng	98
75) alpha-Pinene	23.70	93	790329	22.480	ng	96
76) n-Propylbenzene	23.85	91	1963986	22.457	ng	95
77) 3-Ethyltoluene	23.98	105	1689711	23.900	ng	98
78) 4-Ethyltoluene	24.03	105	1644662	23.558	ng	97
79) 1,3,5-Trimethylbenzene	24.13	105	1368390	23.548	ng	99

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Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:52 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration

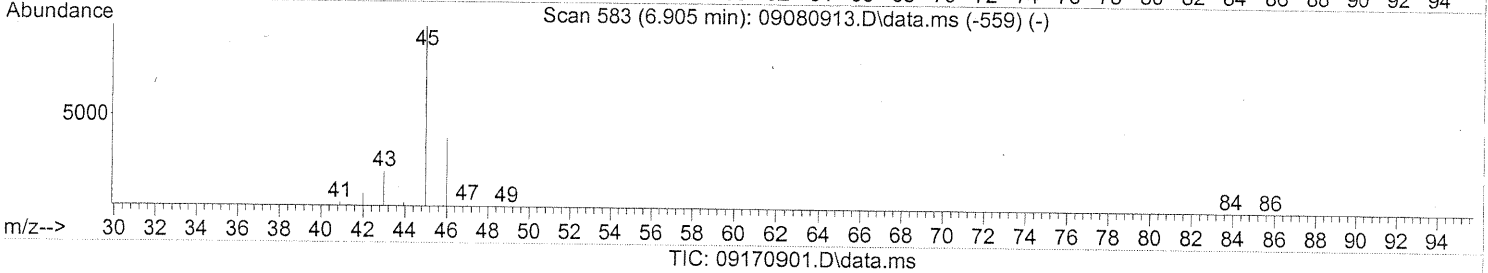
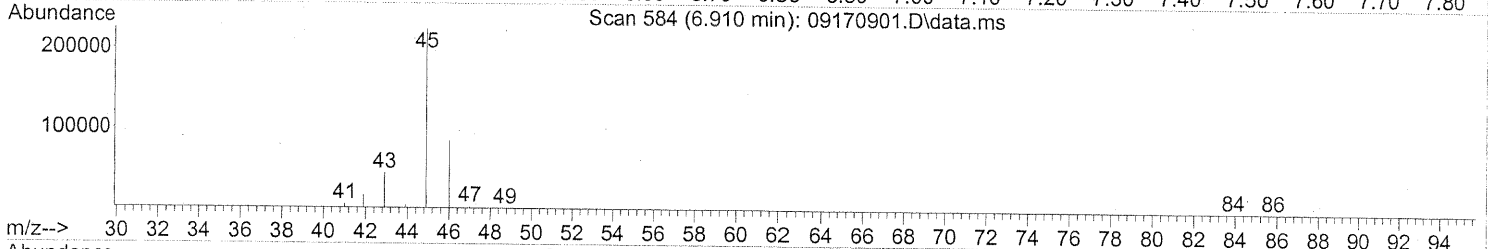
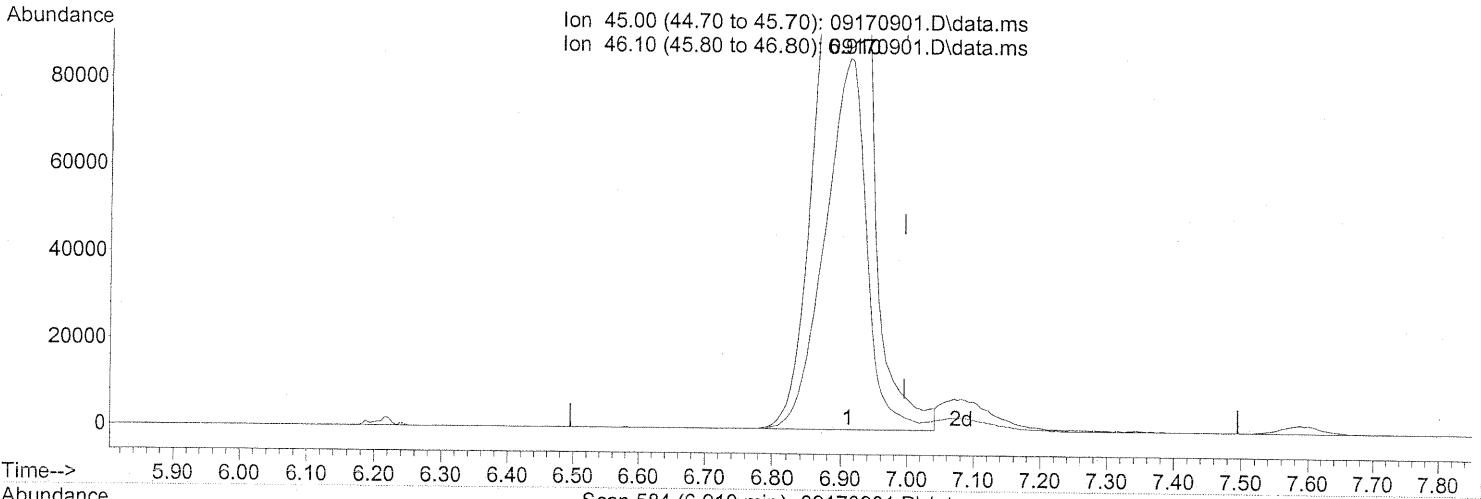
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.32	118	815606	24.324	ng	96
81) 2-Ethyltoluene	24.36	105	1651580	22.274	ng	97
82) 1,2,4-Trimethylbenzene	24.64	105	1391638	22.453	ng	95
83) n-Decane	24.76	57	662347	20.415	ng	92
84) Benzyl Chloride	24.80	91	1282589	26.433	ng	94
85) 1,3-Dichlorobenzene	24.83	146	892148	24.724	ng	100
86) 1,4-Dichlorobenzene	24.92	146	910659	24.216	ng	100
87) sec-Butylbenzene	24.97	105	1870108	23.050	ng	96
88) 4-Isopropyltoluene (p-...	25.17	119	1804699	22.950	ng	95
89) 1,2,3-Trimethylbenzene	25.17	105	1428188	23.533	ng	96
90) 1,2-Dichlorobenzene	25.34	146	846943	24.397	ng	99
91) d-Limonene	25.34	68	513500	23.065	ng	87
92) 1,2-Dibromo-3-Chloropr...	25.87	157	335449	26.836	ng	# 77
93) n-Undecane	26.29	57	695053	18.575	ng	93
94) 1,2,4-Trichlorobenzene	27.40	180	724224	26.576	ng	100
95) Naphthalene	27.54	128	2209530	24.545	ng	100
96) n-Dodecane	27.52	57	704007	19.092	ng	91
97) Hexachlorobutadiene	27.96	225	439561	25.550	ng	98
98) Cyclohexanone	22.02	55	425098	18.435	ng	# 89
99) tert-Butylbenzene	24.64	119	1427817	23.395	ng	98
100) n-Butylbenzene	25.68	91	1470041	23.620	ng	97

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:31 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



(10) Ethanol (T)

6.910min (-0.085) 98.10ng

response 978109

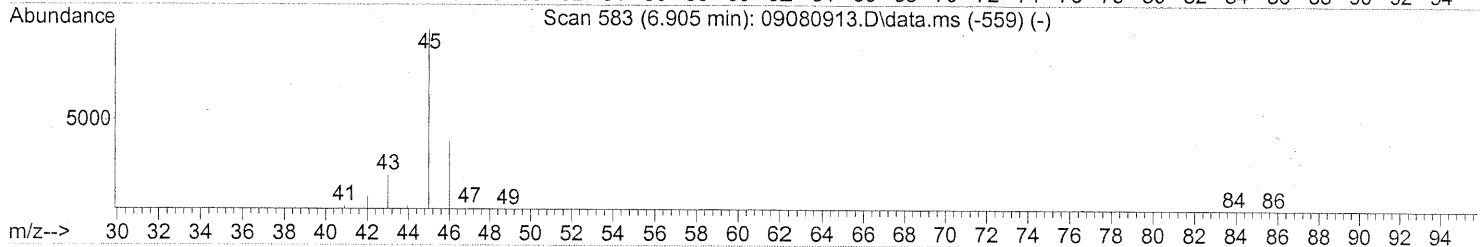
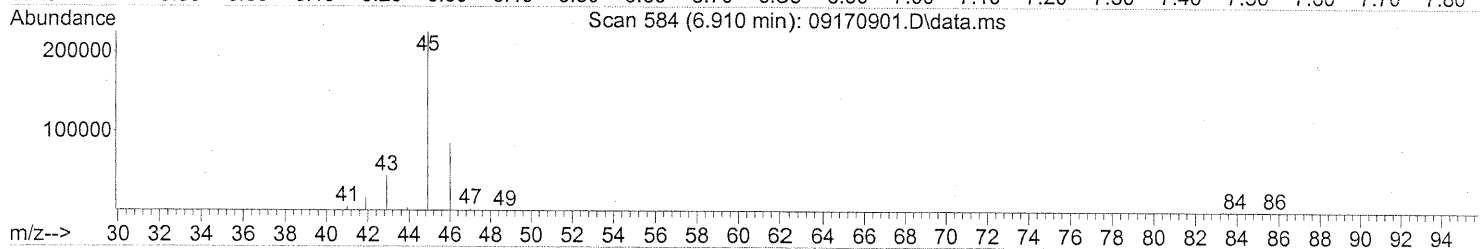
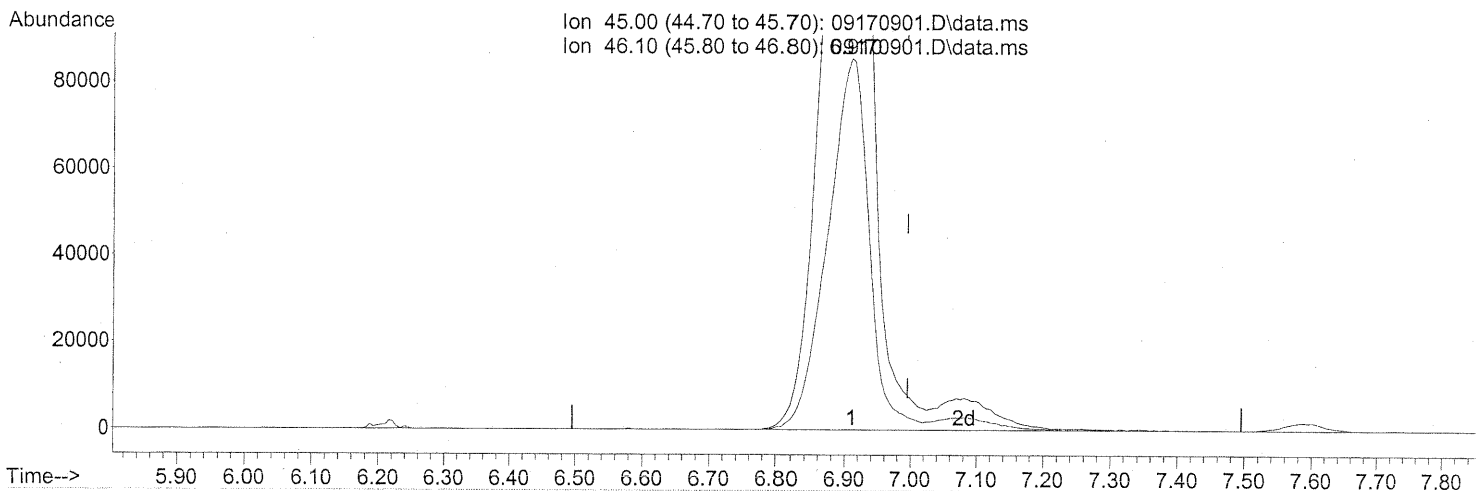
Ion	Exp%	Act%
45.00	100	100
46.10	38.80	39.52
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 17 09:33:31 2009
 Quant Method : J:\MS16\METHODS\R16090809.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Wed Sep 09 09:31:43 2009
 Response via : Initial Calibration



TIC: 09170901.D\data.ms

(10) Ethanol (T)
 6.910min (-0.085) 102.14ng m
 response 1018374

Ion	Exp%	Act%
45.00	100	100
46.10	38.80	37.96
0.00	0.00	0.00
0.00	0.00	0.00

*PT → IC
 in 9/18/09*

E. 9/21/09

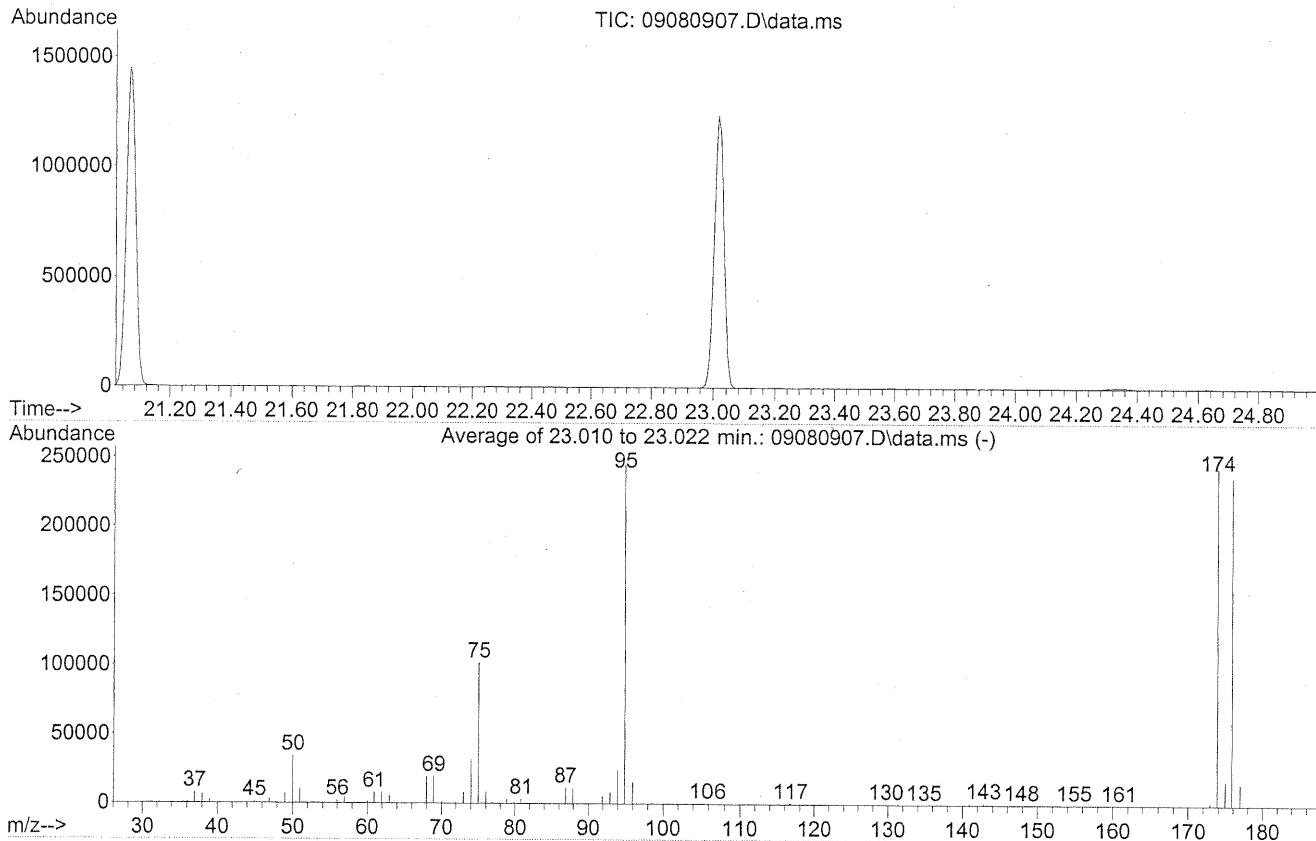
941

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS16\DATA\2009_09\08\
 Data File : 09080907.D
 Acq On : 8 Sep 2009 17:22
 Operator : LH
 Sample : 25ng TO-15 BFB
 Misc : S20-09080901
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:31:43 2009



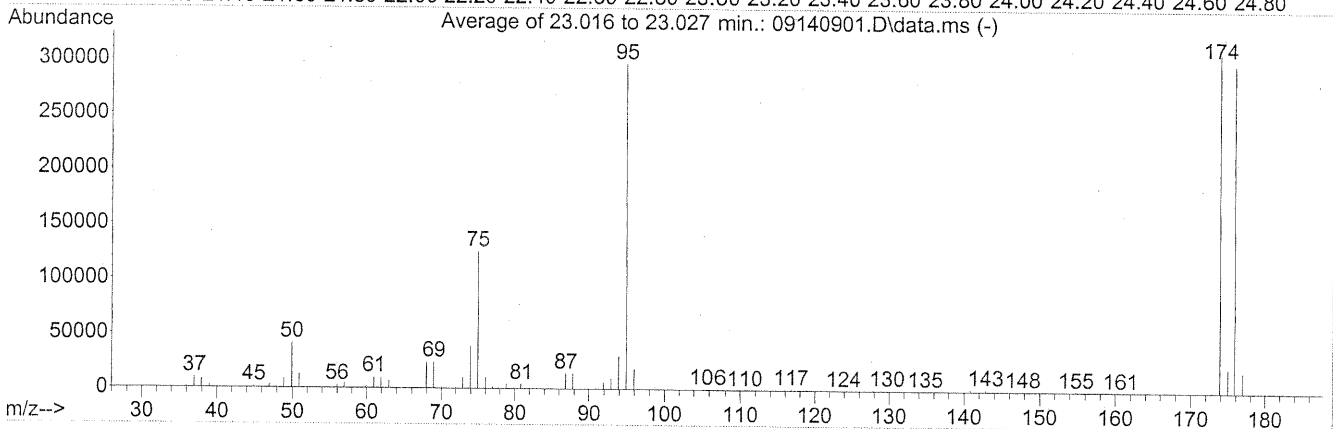
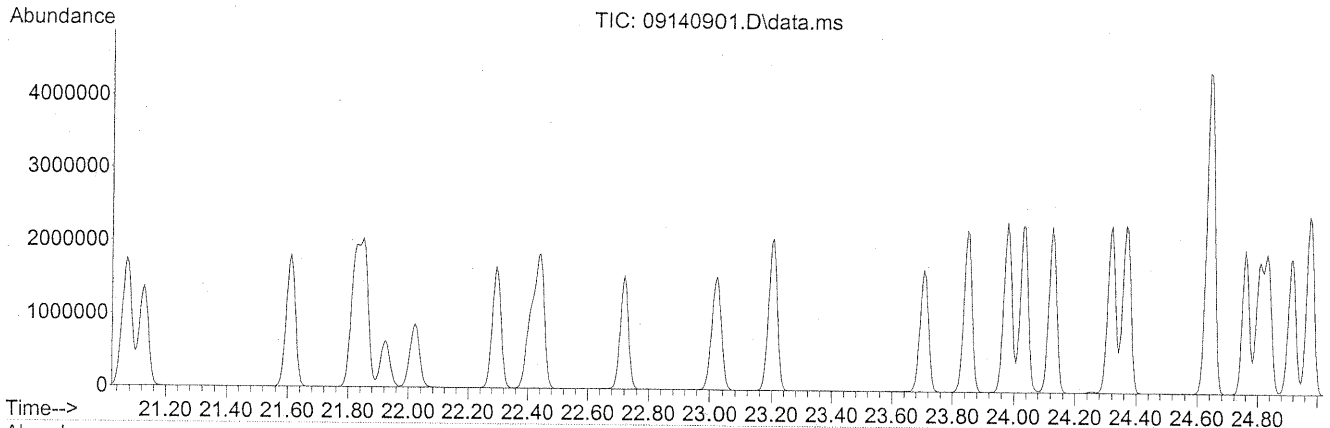
AutoFind: Scans 3413, 3414, 3415; Background Corrected with Scan 3402

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.1	34619	PASS
75	95	30	66	41.7	102077	PASS
95	95	100	100	100.0	244971	PASS
96	95	5	9	6.4	15796	PASS
173	174	0.00	2	0.8	2029	PASS
174	95	50	120	99.6	244075	PASS
175	174	4	9	7.4	18016	PASS
176	174	93	101	97.1	237099	PASS
177	176	5	9	6.6	15582	PASS

Data Path : J:\MS16\DATA\2009_09\14\
 Data File : 09140901.D
 Acq On : 14 Sep 2009 6:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:31:43 2009



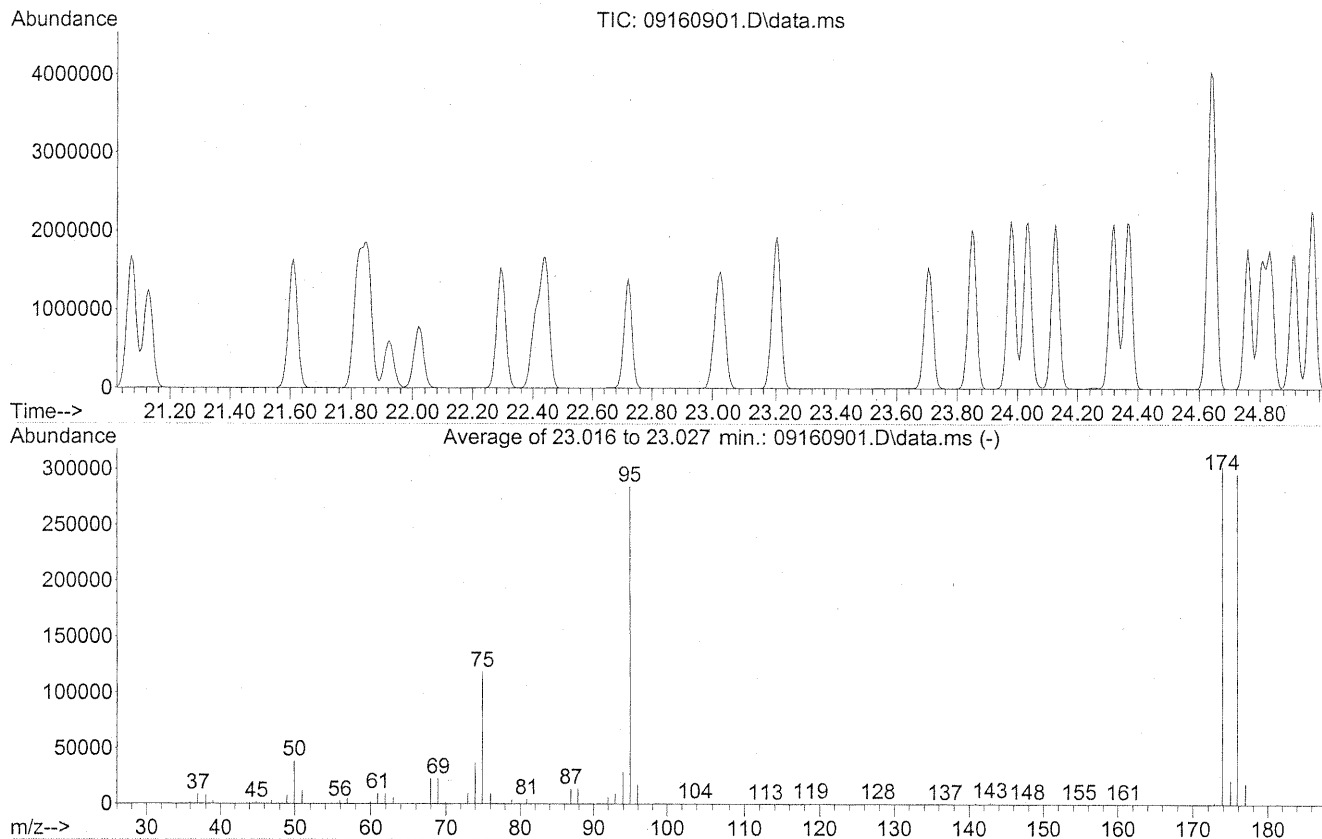
AutoFind: Scans 3414, 3415, 3416; Background Corrected with Scan 3402

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.9	41320	PASS
75	95	30	66	42.2	125427	PASS
95	95	100	100	100.0	297173	PASS
96	95	5	9	6.4	18872	PASS
173	174	0.00	2	0.5	1631	PASS
174	95	50	120	104.0	309163	PASS
175	174	4	9	7.0	21693	PASS
176	174	93	101	96.7	299029	PASS
177	176	5	9	6.3	18941	PASS

Data Path : J:\MS16\DATA\2009_09\16\
 Data File : 09160901.D
 Acq On : 16 Sep 2009 8:39
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:31:43 2009



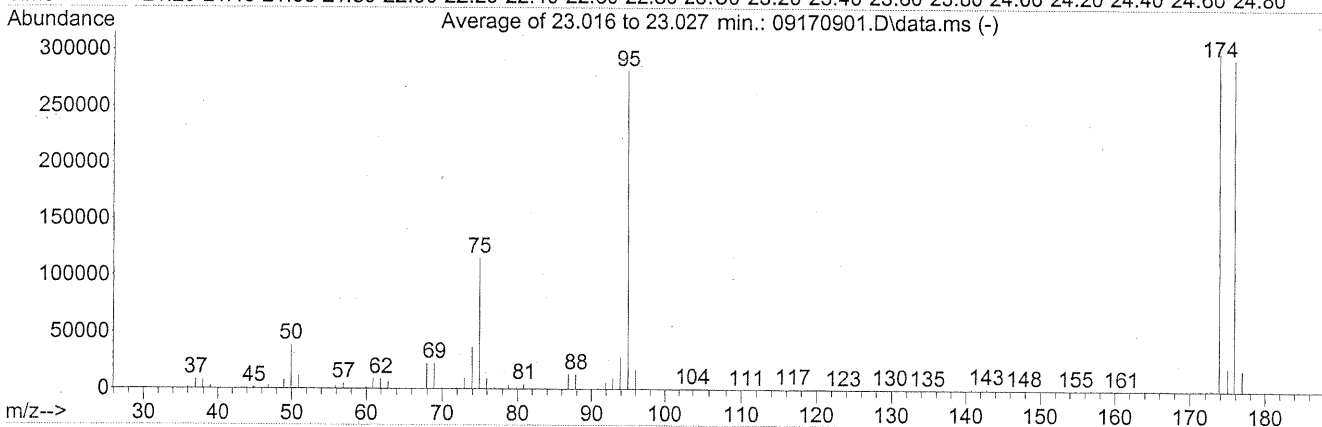
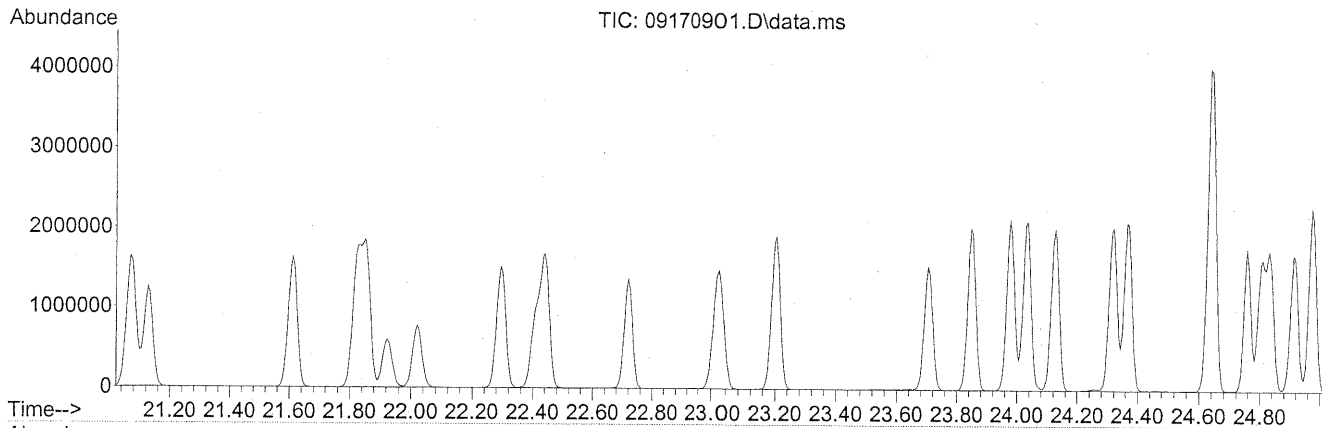
AutoFind: Scans 3414, 3415, 3416; Background Corrected with Scan 3403

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.6	38835	PASS
75	95	30	66	41.7	118659	PASS
95	95	100	100	100.0	284779	PASS
96	95	5	9	6.3	17809	PASS
173	174	0.00	2	0.8	2398	PASS
174	95	50	120	106.5	303339	PASS
175	174	4	9	7.2	21795	PASS
176	174	93	101	97.7	296448	PASS
177	176	5	9	6.4	18896	PASS

Data Path : J:\MS16\DATA\2009_09\17\
 Data File : 09170901.D
 Acq On : 17 Sep 2009 7:18
 Operator : LH
 Sample : 25ng TO-15 CCV STD
 Misc : S20-09080901/S20-09030904
 ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16090809.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Wed Sep 09 09:31:43 2009



AutoFind: Scans 3414, 3415, 3416; Background Corrected with Scan 3403

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.8	38893	PASS
75	95	30	66	41.1	115859	PASS
95	95	100	100	100.0	282048	PASS
96	95	5	9	6.3	17743	PASS
173	174	0.00	2	0.8	2333	PASS
174	95	50	120	106.3	299861	PASS
175	174	4	9	7.0	20899	PASS
176	174	93	101	97.8	293269	PASS
177	176	5	9	6.4	18899	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	09/04/09 18:57	09040916.D	P0903124-003 (1000mL)	[REDACTED]	LH	6	
17	09/04/09 19:35	09040917.D	P0903124-003Dup (1000mL)	[REDACTED]	LH	6	passed
18	09/04/09 20:14	09040918.D	P0903020-001 (100mL)	[REDACTED]	LH	7	
19	09/04/09 20:52	09040919.D	P0903020-001 (25mL)	[REDACTED]	LH	7	
20	09/04/09 21:31	09040920.D	P0903020-002 (1000mL)	[REDACTED]	LH	8	
21	09/04/09 22:10	09040921.D	P0903020-003 (1000mL)	[REDACTED]	LH	9	
22	09/04/09 22:48	09040922.D	P0903020-004 (1000mL)	[REDACTED]	LH	10	
23	09/04/09 23:26	09040923.D	CAS QC CAN C3S 3729F	1SC00456 (400mL)	LH	11	failed
24	09/05/09 0:06	09040924.D	CAS QC CAN C3S 3729K	1SC00609 (400mL)	LH	12	passed
25	09/05/09 0:46	09040925.D	CAS QC CAN C3S 3729Q	1SC00559 (400mL)	LH	13	passed
26	09/05/09 1:25	09040926.D	1.0ng STD Check	S20-08130903/S20-09030909	LH	16	
27	09/05/09 2:03	09040927.D	1.0ng STD Check	S20-08130903/S20-08240904	LH	2	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/08/09 10:02	09080901.D	Blank (100mL)	S20-09080901	LH	2	new IS can
2	09/08/09 13:52	09080902.D	Blank (100mL)	S20-09080901	LH	2	
3	09/08/09 14:50	09080903.D	5.0ng STD Check	S20-09080901/S20-09030905	LH	2	
4	09/08/09 15:28	09080904.D	25ng STD Check	S20-09080901/S20-09030904	LH	2	
5	09/08/09 16:06	09080905.D	25ng STD Check	S20-09080901/S20-09030911	LH	3	
6	09/08/09 16:44	09080906.D	5.0ng STD Check	S20-09080901/S20-09030905	LH	2	
7	09/08/09 17:22	09080907.D	25ng TO-15 BFB	S20-09080901	LH	2	passed
8	09/08/09 18:00	09080908.D	0.1ng TO-15 ICAL STD	S20-09080901/S20-09030909	LH	16	ICAL SAVED AS
9	09/08/09 18:38	09080909.D	0.2ng TO-15 ICAL STD	S20-09080901/S20-09030909	LH	16	R16090809.M
10	09/08/09 19:16	09080910.D	0.5ng TO-15 ICAL STD	S20-09080901/S20-09030905	LH	2	ALL COMPOUNDS PASSED
11	09/08/09 19:54	09080911.D	1.0ng TO-15 ICAL STD	S20-09080901/S20-09030905	LH	2	FOR 0.1 mg/m ³
12	09/08/09 20:33	09080912.D	5.0ng TO-15 ICAL STD	S20-09080901/S20-09030905	LH	2	EXCEPT:
13	09/08/09 21:11	09080913.D	25ng TO-15 ICAL STD	S20-09080901/S20-09030904	LH	2	ACRYLONITRILE 0.5ng → 100ng
14	09/08/09 21:49	09080914.D	50ng TO-15 ICAL STD	S20-09080901/S20-09030904	LH	2	VINYL ACETATE 2.5ng → 500ng
15	09/08/09 22:28	09080915.D	100ng TO-15 ICAL STD	S20-09080901/S20-09030904	LH	2	
16	09/08/09 23:07	09080916.D	25ng TO-15 ICV STD	S20-09080901/S20-09030911	LH	3	passed

	Date/Time	File Name	Sample ID	Misc info	Operator	Vial	Comment
1	09/11/09 6:52	09110901.D	25ng TO-15 CCV STD	S20-09080901/S20-09030904	LH	2	passed
2	09/11/09 7:40	09110902.D	TO-15 Method blank (1000mL)	S20-09080901	LH	2	passed
3	09/11/09 8:18	09110903.D	25ng TO-15 LCS STD	S20-09080901/S20-09030911	LH	3	passed
4	09/11/09 8:56	09110904.D	25ng TO-15 LCSD STD	S20-09080901/S20-09030911	LH	3	passed
5	09/11/09 9:35	09110905.D	P0903096-006 (1.0mL)	[REDACTED]	LH	1	
6	09/11/09 10:13	09110906.D	P0903096-006Dup (1.0mL)	[REDACTED]	LH	1	passed
7	09/11/09 10:51	09110907.D	P0903096-009 (0.5mL)	[REDACTED]	LH	1	case file
8	09/11/09 11:29	09110908.D	P0903096-009 (1.5mL)	[REDACTED]	LH	1	
9	09/11/09 12:08	09110909.D	P0903124-001 (100mL)	[REDACTED]	LH	4	
10	09/11/09 12:46	09110910.D	P0903096-005 (1000mL)	[REDACTED]	LH	1	
11	09/11/09 13:24	09110911.D	P0903096-012 (15mL)	[REDACTED]	LH	6	
12	09/11/09 14:03	09110912.D	P0903124-003Dil (50mL)	[REDACTED]	LH	7	
13	09/11/09 14:41	09110913.D	P0903124-003Dup Dil (50mL)	[REDACTED]	LH	7	passed
14	09/11/09 15:46	09110914.D	P0903096-012Dil (5.0mL)	[REDACTED]	LH	1	
15	09/11/09 16:24	09110915.D	P0903096-010 (1000mL)	[REDACTED]	LH	7	
16	09/11/09 17:02	09110916.D	P0903096-011 (1000mL)	[REDACTED]	LH	8	
17	09/11/09 17:40	09110917.D	P0903096-013 (1000mL)	[REDACTED]	LH	9	needs dilution
18	09/11/09 18:18	09110918.D	P0903096-014 (1000mL)	[REDACTED]	LH	10	needs dilution
19	09/11/09 18:57	09110919.D	P0903096-015 (1000mL)	[REDACTED]	LH	11	
20	09/11/09 19:35	09110920.D	P0903096-016 (1000mL)	[REDACTED]	LH	12	
21	09/11/09 20:14	09110921.D	P0903096-017 (1000mL)	[REDACTED]	LH	13	
22	09/11/09 20:53	09110922.D	P0903096-018 (1000mL)	[REDACTED]	LH	14	
23	09/11/09 21:31	09110923.D	P0903096-019 (1000mL)	[REDACTED]	LH	15	
24	09/11/09 22:10	09110924.D	P0903096-020 (1000mL)	[REDACTED]	LH	16	
25	09/11/09 22:49	09110925.D	CAS QC CAN/COA/AVG (1000mL)	SC00439/OA00020/AVG00528	LH	2	passed
26	09/11/09 23:27	09110926.D	CAS QC CAN/COA/AVG (1000mL)	SC00458/OA00568/AVG00794	LH	4	passed
27	09/12/09 0:06	09110927.D	CAS QC CAN/COA/AVG (1000mL)	SC00603/OA00035/AVG00347	LH	5	passed
28	09/12/09 0:44	09110928.D	CAS QC CAN/COA/AVG (1000mL)	SC00471/OA00550/AVG00707	LH	6	passed

	Date/Time	File Name	Sample ID	Misc info	Operator	Vial	Comment
1	09/14/09 6:39	09140901.D	25ng TO-15 CCV STD	S20-09080901/S20-09030904	LH	2	passed
2	09/14/09 7:21	09140902.D	TO-15 Method blank (1000mL)	S20-09080901	LH	2	passed
3	09/14/09 7:59	09140903.D	P0903096-013Dil (50mL)	[REDACTED] 5	LH	9	
4	09/14/09 8:43	09140904.D	P0903096-014Dil (100mL)	[REDACTED]	LH	10	
5	09/14/09 9:27	09140905.D	P0903157-001 (0.5mL)	[REDACTED]	LH	1	case file
6	09/14/09 10:07	09140906.D	P0903157-001 (11mL)	[REDACTED]	LH	1	
7	09/14/09 10:45	09140907.D	P0903157-001Dil (0.5mL)	[REDACTED]	LH	1	
8	09/14/09 11:23	09140908.D	P0903157-002 (0.5mL)	[REDACTED]	LH	1	case file
9	09/14/09 12:01	09140909.D	P0903157-002 (0.8mL)	[REDACTED]	LH	1	
10	09/14/09 12:40	09140910.D	P0903157-002Dup (0.8mL)	[REDACTED]	LH	1	passed
11	09/14/09 13:18	09140911.D	25ng TO-15 LCS STD	S20-09080901/S20-09030911	LH	3	passed
12	09/14/09 14:04	09140912.D	P0903157-005 (0.05mL)	[REDACTED] 6	LH	1	OVERDILUTED
13	09/14/09 14:42	09140913.D	P0903157-007 (0.1mL)	[REDACTED]	LH	1	overdiluted

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
14	09/14/09 15:20	09140914.D	P0903157-003 (1000mL)	[REDACTED]	LH	4	Overdiluted
15	09/14/09 15:58	09140915.D	P0903157-004 (1000mL)	[REDACTED]	LH	5	
16	09/14/09 16:36	09140916.D	P0903157-006 (1000mL)	[REDACTED]	LH	6	
17	09/14/09 17:14	09140917.D	P0903145-001 (1000mL)	Environmental H & E 102648	LH	7	
18	09/14/09 17:53	09140918.D	P0903145-002 (1000mL)	Environmental H & E 102649	LH	8	
19	09/14/09 18:31	09140919.D	P0903145-003 (1000mL)	Environmental H & E 102650	LH	9	
20	09/14/09 19:09	09140920.D	P0903096-021 (1000mL)	[REDACTED]	LH	15	
21	09/14/09 19:47	09140921.D	P0903096-021Dil (100mL)	[REDACTED]	LH	15	case file
22	09/14/09 20:25	09140922.D	P0903096-022 (1000mL)	[REDACTED]	LH	16	
23	09/14/09 21:03	09140923.D	P0903096-022Dil (100mL)	[REDACTED]	LH	16	case file
24	09/14/09 21:41	09140924.D	25ng TO-15 LCSD STD	S20-09080901/S20-09030911	LH	3	passed

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/16/09 8:39	09160901.D	25ng TO-15 CCV STD	S20-09080901/S20-09030904	LH	2	passed
2	09/16/09 9:23	09160902.D	TO-15 Method blank (1000mL)	S20-09080901	LH	2	passed
3	09/16/09 10:08	09160903.D	P0903157-005 (1.0mL)	[REDACTED]	LH	1	
4	09/16/09 10:46	09160904.D	P0903157-005Dup (1.0mL)	[REDACTED]	LH	1	passed
5	09/16/09 11:24	09160905.D	P0903157-007 (2.0mL)	[REDACTED]	LH	1	
6	09/16/09 12:18	09160906.D	P0903145-004 (1000mL)	Environmental H & E 102651	LH	10	
7	09/16/09 12:56	09160907.D	P0903145-005 (1000mL)	Environmental H & E 102652	LH	11	
8	09/16/09 13:34	09160908.D	P0903145-006 (450mL)	Environmental H & E 102715	LH	12	
9	09/16/09 14:12	09160909.D	25ng TO-15 LCS STD	S20-09080901/S20-09030911	LH	3	passed
10	09/16/09 14:53	09160910.D	P0903145-007 (500mL)	Environmental H & E 102716	LH	13	
11	09/16/09 15:32	09160911.D	P0903145-008 (700mL)	Environmental H & E 102717	LH	14	can closed
12	09/16/09 16:10	09160912.D	P0903145-008 (700mL)	Environmental H & E 102717	LH	14	
13	09/16/09 17:27	09160913.D	P0903145-009 (700mL)	Environmental H & E 102718	LH	15	case file
14	09/17/09 8:39	09160914.D	P0903145-010 (1000mL)	Environmental H & E 102719	LH	16	

CRYO SHUT OFF

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/17/09 7:18	09170901.D	25ng TO-15 CCV STD	S20-09080901/S20-09030904	LH	2	passed
2	09/17/09 8:03	09170902.D	TO-15 Method blank (1000mL)	S20-09080901	LH	2	passed
3	09/17/09 8:41	09170903.D	P0903145-009 (700mL)	Environmental H & E 102718	LH	15	
4	09/17/09 9:19	09170904.D	P0903145-011 (1000mL)	Environmental H & E 102720	LH	4	
5	09/17/09 10:03	09170905.D	HZA Tank QC (1000mL)	Lot # 14-103489922-1	LH	4	passed
6	09/17/09 10:42	09170906.D	P0903145-012 (1000mL)	Environmental H & E 102826	LH	5	
7	09/17/09 11:27	09170907.D	25ng TO-15 LCS STD	S20-09080901/S20-09030911	LH	3	passed
8	09/17/09 12:05	09170908.D	P0903145-013 (1000mL)	Environmental H & E 102827	LH	6	
9	09/17/09 12:43	09170909.D	P0903145-014 (1000mL)	Environmental H & E 102828	LH	7	
10	09/17/09 13:22	09170910.D	P0903145-015 (1000mL)	Environmental H & E 102829	LH	8	
11	09/17/09 14:00	09170911.D	P0903145-016 (1000mL)	Environmental H & E 102830	LH	9	
12	09/17/09 14:51	09170912.D	P0903145-013Dup (1000mL)	Environmental H & E 102827	LH	6	passed
13	09/17/09 15:34	09170913.D	Blank (1000mL)	S20-09080901	LH	10	
14	09/17/09 16:12	09170914.D	Blank (1000mL)	S20-09080901	LH	10	
15	09/17/09 16:51	09170915.D	Blank (100mL)	S20-09080901	LH	10	
16	09/17/09 17:29	09170916.D	Blank (100mL)	S20-09080901	LH	10	
17	09/17/09 18:07	09170917.D	25ng TO-15 LCSD STD	S20-09080901/S20-09030911	LH	3	passed
18	09/17/09 18:46	09170918.D	CAS QC CAN C5S 3726B	1SC00165 (400mL)	LH	11	failed
19	09/17/09 19:24	09170919.D	CAS QC CAN C5S 3726C	1SC00538 (400mL)	LH	12	failed
20	09/17/09 20:02	09170920.D	CAS QC CAN C5S 3726F	1SC00368 (400mL)	LH	13	failed
21	09/17/09 20:41	09170921.D	CAS QC CAN C5S 3726H	1SC00607 (400mL)	LH	14	failed
22	09/17/09 21:20	09170922.D	CAS QC CAN C4S 3740E	1SC00377 (400mL)	LH	15	failed
23	09/17/09 21:59	09170923.D	CAS QC CAN C4S 3740O	1SC00248 (400mL)	LH	16	failed
24	09/17/09 22:38	09170924.D	CAS QC CAN C4S 3740R	1SC00040 (400mL)	LH	4	failed
25	09/17/09 23:16	09170925.D	CAS QC CAN C4S 3740S	1SC00366 (400mL)	LH	5	failed
26	09/17/09 23:55	09170926.D	CAS QC CAN C4S 3740I	1SC00302 (400mL)	LH	6	failed