
LABORATORY REPORT

September 16, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on August 20, 2009. For your reference, these analyses have been assigned our service request number P0902876.

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 652 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, Incorporated CAS Project No: P0902876
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 20, 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 upper control criterion was exceeded for Vinyl Acetate in the Continuing Calibration Verification (CCV) analyzed on August 26, 2009. A potential for a high bias exists for this analyte which was detected in sample 102472. The sample was reanalyzed on a passing CCV on September 3, 2009 and the results are comparable. The data has been qualified accordingly. Since the apparent problem equates to a potential high bias, the data quality is not affected for field samples that did not contain this analyte.

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: P0902876

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1 (Hg)	Pf2 (psig)	Cont ID	Order #	FC ID	Bottle Order #
P0902876-001.01	102349	6.0 L-Summa Canister Ambient	-4.0	-2.0	3.5		AC01172	14275		
P0902876-002.01	102350	6.0 L-Summa Canister Ambient	-11.8	-5.8	3.5		AC01185	14275		
P0902876-003.01	102351	6.0 L-Summa Canister Ambient	-5.0	-2.5	3.5		AC00976	14275		
P0902876-004.01	102352	6.0 L-Summa Canister Ambient	-5.4	-2.7	3.7		AC01257	14275		
P0902876-005.01	102353	6.0 L-Summa Canister Ambient	-2.2	-1.1	3.5		AC00672	14275		
P0902876-006.01	102470	6.0 L-Summa Canister Ambient	-5.8	-2.8	3.5		AC01374	14275		
P0902876-007.01	102471	6.0 L-Summa Canister Ambient	-6.4	-3.1	3.5		AC01047	14275		
P0902876-008.01	102472	6.0 L-Summa Canister Ambient	-4.8	-2.4	3.5		AC01667	14275		
P0902876-009.01	102473	6.0 L-Summa Canister Ambient	-5.9	-2.9	3.5		AC00958	14275		
P0902876-010.01	102474	6.0 L-Summa Canister Ambient	-7.1	-3.5	3.5		AC00782	14275		
P0902876-011.01	102475	6.0 L-Summa Canister Ambient	-29.2	-14.3	3.5		AC01659	14275		

Client: Environmental Health & Engineering, Incorporated
Project: 16512

Folder: P0902876

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1 (Hg)</u>	<u>Pi1 (psig)</u>	<u>Pi2 (Hg)</u>	<u>Pi2 (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

FC00690											
FC00220											
AVG01116											
AVG00577											
FC00256											
AVG01132											
FC00780											
AVG00806											
FC00580											
AVG00906											
FC00678											
FC00515											
AVG01072											
AVG01124											
FC00190											
AVG00464											
FC00783											
FC00409											
FC00335											
AVG01172											
AVG00900											
AVG00986											

DATE: 8/19/09

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

PO902876

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.
4.0	Summa	EPA TO-15	2HR FLOW 8/18/09
11.8			
5.0			
5.4			
2.2			
5.8			2HR FLOW 8/19/09
0.4			
4.8			
5.9			
7.1			
29.2			

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 MFRA GAY @ EHE INC. COM

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 8/19/09
 Received by: FedEx of (company name) _____ Date: _____
 Relinquished by: FedEx of (company name) _____ Date: _____
 Received by: [Signature] of (company name) CAL Date: 08/20/09 0950
 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, Incorporated

Work order: P0902876

Project: Project # 16512 / 16512

Sample(s) received on: 8/20/2009

Date opened: 8/20/2009

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?
Cooler Temperature _____ °C Blank Temperature _____ °C | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10 | Was a trip blank received?
Trip blank supplied by CAS: _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 11 | Were custody seals on outside of cooler/Box?
Location of seal(s)? _____ Sealing Lid?
Were signature and date included?
Were seals intact?
Were custody seals on outside of sample container?
Location of seal(s)? _____ Sealing Lid?
Were signature and date included?
Were seals intact? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 12 | Do containers have appropriate preservation , according to method/SOP or Client specified information?
Is there a client indication that the submitted samples are pH preserved?
Were VOA vials checked for presence/absence of air bubbles?
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?
Do they contain moisture? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14 | Badges: Are the badges properly capped and intact?
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
P0902876-001.01	6.0 L Ambient Can					
P0902876-002.01	6.0 L Ambient Can					
P0902876-003.01	6.0 L Ambient Can					
P0902876-004.01	6.0 L Ambient Can					
P0902876-005.01	6.0 L Ambient Can					
P0902876-006.01	6.0 L Ambient Can					

Explain any discrepancies: (include lab sample ID numbers): _____
 Chain of Custody is missing time collected _____

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102349
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01172

CAS Project ID: P0902876
CAS Sample ID: P0902876-001

Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/25 - 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	14	0.72	8.2	0.42	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.72	0.56	0.14	
74-87-3	Chloromethane	0.89	0.14	0.43	0.069	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.72	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.14	ND	0.056	
106-99-0	1,3-Butadiene	ND	0.14	ND	0.065	
74-83-9	Bromomethane	ND	0.14	ND	0.037	
75-00-3	Chloroethane	ND	0.14	ND	0.054	
64-17-5	Ethanol	1,100	7.2	590	3.8	D
75-05-8	Acetonitrile	110	0.72	64	0.43	
107-02-8	Acrolein	4.7	0.72	2.1	0.31	
67-64-1	Acetone	210	7.2	88	3.0	
75-69-4	Trichlorofluoromethane	1.4	0.14	0.26	0.025	
67-63-0	2-Propanol (Isopropyl Alcohol)	74	0.72	30	0.29	
107-13-1	Acrylonitrile	ND	0.72	ND	0.33	
75-35-4	1,1-Dichloroethene	ND	0.14	ND	0.036	
75-09-2	Methylene Chloride	ND	0.72	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.14	ND	0.046	
76-13-1	Trichlorotrifluoroethane	0.61	0.14	0.079	0.019	
75-15-0	Carbon Disulfide	2.7	0.72	0.87	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.14	ND	0.036	
75-34-3	1,1-Dichloroethane	ND	0.14	ND	0.035	
1634-04-4	Methyl tert-Butyl Ether	ND	0.14	ND	0.040	
108-05-4	Vinyl Acetate	ND	7.2	ND	2.0	
78-93-3	2-Butanone (MEK)	6.1	0.72	2.1	0.24	

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.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

9/2/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

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CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.14	ND	0.036	
141-78-6	Ethyl Acetate	9.6	0.72	2.7	0.20	
110-54-3	n-Hexane	0.87	0.72	0.25	0.20	
67-66-3	Chloroform	2.0	0.14	0.42	0.029	
109-99-9	Tetrahydrofuran (THF)	ND	0.72	ND	0.24	
107-06-2	1,2-Dichloroethane	2.2	0.14	0.53	0.035	
71-55-6	1,1,1-Trichloroethane	ND	0.14	ND	0.026	
71-43-2	Benzene	0.96	0.14	0.30	0.045	
56-23-5	Carbon Tetrachloride	0.56	0.14	0.089	0.023	
110-82-7	Cyclohexane	ND	0.72	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	0.14	ND	0.031	
75-27-4	Bromodichloromethane	0.36	0.14	0.054	0.021	
79-01-6	Trichloroethene	ND	0.14	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.72	ND	0.20	
80-62-6	Methyl Methacrylate	ND	0.72	ND	0.17	
142-82-5	n-Heptane	1.6	0.72	0.40	0.17	
10061-01-5	cis-1,3-Dichloropropene	6.9	0.72	1.5	0.16	
108-10-1	4-Methyl-2-pentanone	2.2	0.72	0.54	0.17	
10061-02-6	trans-1,3-Dichloropropene	4.8	0.72	1.1	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.14	ND	0.026	
108-88-3	Toluene	21	0.72	5.6	0.19	
591-78-6	2-Hexanone	0.93	0.72	0.23	0.17	
124-48-1	Dibromochloromethane	0.20	0.14	0.023	0.017	
106-93-4	1,2-Dibromoethane	ND	0.14	ND	0.019	
123-86-4	n-Butyl Acetate	4.6	0.72	0.98	0.15	

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.

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9/2/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102349
Client Project ID: 16512

CAS Project ID: P0902876
 CAS Sample ID: P0902876-001

Test Code: EPA TO-15
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 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01172

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 Date Analyzed: 8/25 - 8/26/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -2.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.43

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.9	0.72	0.62	0.15	
127-18-4	Tetrachloroethene	0.30	0.14	0.044	0.021	
108-90-7	Chlorobenzene	ND	0.14	ND	0.031	
100-41-4	Ethylbenzene	1.2	0.72	0.27	0.16	
179601-23-1	m,p-Xylenes	3.2	0.72	0.73	0.16	
75-25-2	Bromoform	ND	0.72	ND	0.069	
100-42-5	Styrene	2.8	0.72	0.67	0.17	
95-47-6	o-Xylene	1.3	0.72	0.31	0.16	
111-84-2	n-Nonane	3.7	0.72	0.71	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.021	
98-82-8	Cumene	ND	0.72	ND	0.15	
80-56-8	alpha-Pinene	110	0.72	19	0.13	
103-65-1	n-Propylbenzene	ND	0.72	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.72	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.72	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	2.2	0.72	0.44	0.15	
100-44-7	Benzyl Chloride	ND	0.14	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.14	ND	0.024	
106-46-7	1,4-Dichlorobenzene	0.29	0.14	0.048	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.14	ND	0.024	
5989-27-5	d-Limonene	48	0.72	8.6	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.72	ND	0.074	
120-82-1	1,2,4-Trichlorobenzene	ND	0.72	ND	0.096	
91-20-3	Naphthalene	ND	0.72	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.72	ND	0.067	

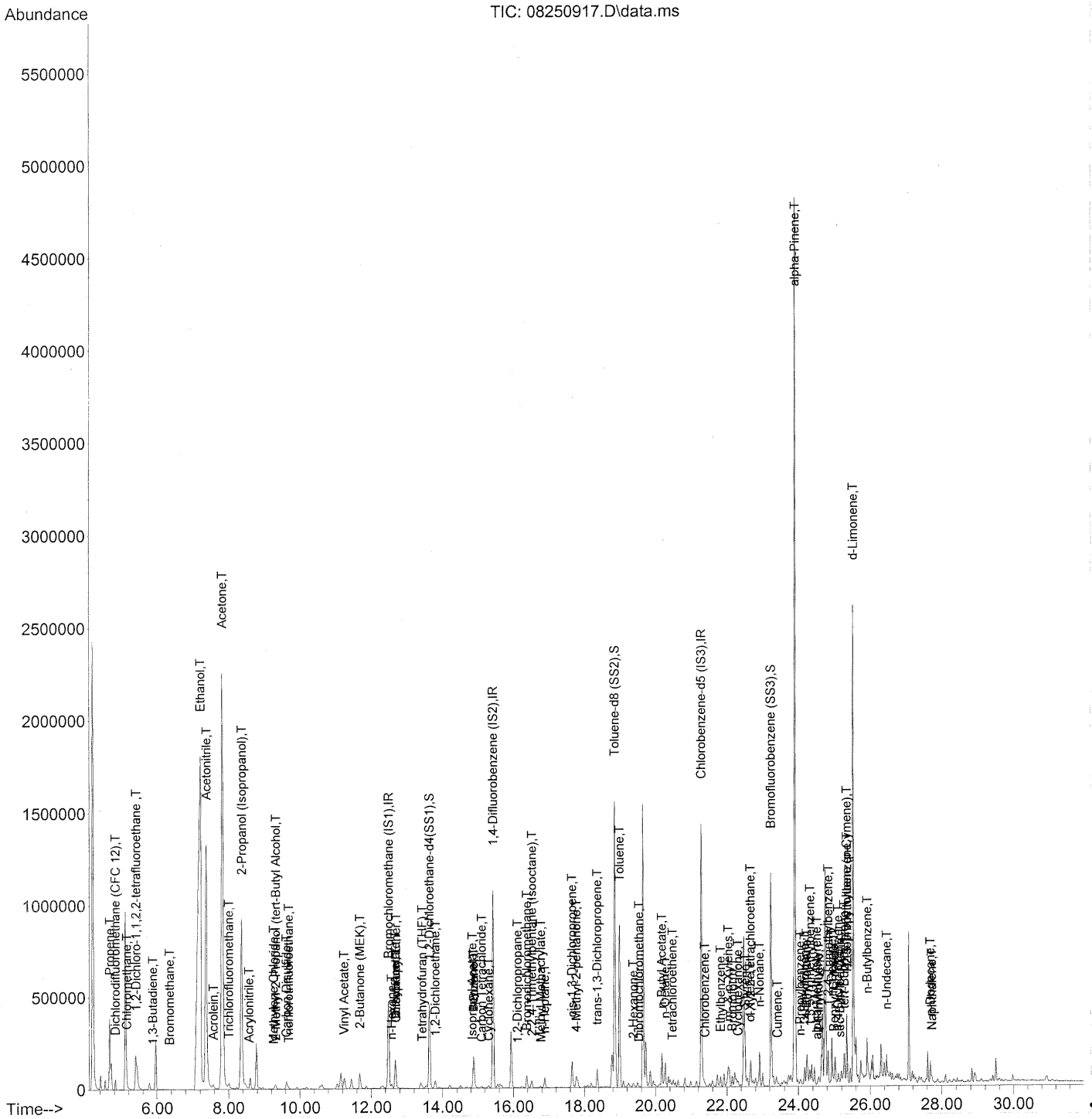
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 9/8/09 **11**

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

W 8/31/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	246027	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1234077	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	592143	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	463040	21.654	ng	-0.03
Spiked Amount	25.000		Recovery	=	86.60%	
57) Toluene-d8 (SS2)	18.85	98	1351961	26.130	ng	-0.02
Spiked Amount	25.000		Recovery	=	104.52%	
73) Bromofluorobenzene (SS3)	23.23	174	386292	28.311	ng	-0.01
Spiked Amount	25.000		Recovery	=	113.24%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	167389m	9.915	ng	
3) Dichlorodifluoromethan...	4.83	85	53715	1.947	ng	99
4) Chloromethane	5.15	50	11522	0.621	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	2828	0.252	ng	85
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	1199	0.094	ng	# 55
8) Bromomethane	6.35	94	605	0.056	ng	86
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.21	45	6472582	604.825	ng	See list 100
11) Acetonitrile	7.38	41	2336830	74.562	ng	100
12) Acrolein	7.57	56	26927	3.306	ng	100
13) Acetone	7.82	58	1473833	145.962	ng	92
14) Trichlorofluoromethane	8.01	101	25268	1.013	ng	99
15) 2-Propanol (Isopropanol)	8.37	45	2065987	52.066	ng	99
16) Acrylonitrile	8.57	53	1058	0.058	ng	92
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.32	59	11630	0.330	ng	# 59
19) Methylene Chloride	9.26	84	2323	0.171	ng	83
20) 3-Chloro-1-propene (Al...	9.41	41	285	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3856	0.425	ng	94
22) Carbon Disulfide	9.62	76	90386	1.891	ng	99
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	11.20	73	578	N.D.		
26) Vinyl Acetate	11.23	86	7870	2.830	ng	# 76
27) 2-Butanone (MEK)	11.68	72	39111	4.290	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	3340	0.274	ng	# 1
30) Ethyl Acetate	12.67	61	31942	6.725	ng	98
31) n-Hexane	12.57	57	14845	0.611	ng	97

13

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	30315	1.417 ng		99
34) Tetrahydrofuran (THF)	13.42	72	4385	0.451 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	29500	1.509 ng		99
38) 1,1,1-Trichloroethane	14.17	97	98	N.D.		
39) Isopropyl Acetate	14.84	61	2799	0.306 ng	#	1
40) 1-Butanol	14.88	56	123826	7.731 ng		81
41) Benzene	14.87	78	36348	0.670 ng		96
42) Carbon Tetrachloride	15.10	117	6780	0.392 ng		95
43) Cyclohexane	15.29	84	7371	0.371 ng		99
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.11	63	938	0.069 ng	#	49
46) Bromodichloromethane	16.37	83	4536	0.254 ng		89
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.53	88	176	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	37387	0.585 ng		87
50) Methyl Methacrylate	16.77	100	263	0.053 ng	#	1
51) n-Heptane	16.88	71	16780	1.152 ng		98
52) cis-1,3-Dichloropropene	17.65	75	109251	4.838 ng		100
53) 4-Methyl-2-pentanone	17.76	58	20010	1.535 ng		99
54) trans-1,3-Dichloropropene	18.36	75	72337	3.369 ng		100
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.		
58) Toluene	18.98	91	747246	14.695 ng		100
59) 2-Hexanone	19.37	43	22023	0.651 ng		95
60) Dibromochloromethane	19.53	129	1670	0.139 ng		92
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	129113	3.239 ng		92
63) n-Octane	20.27	57	25082	2.040 ng		99
64) Tetrachloroethene	20.47	166	2463	0.209 ng		91
65) Chlorobenzene	21.38	112	2923	0.093 ng	#	43
66) Ethylbenzene	21.82	91	47044	0.809 ng		96
67) m- & p-Xylenes	22.04	91	104051	2.213 ng		98
68) Bromoform	22.15	173	686	0.069 ng	#	55
69) Styrene	22.51	104	67700	1.992 ng	#	65
70) o-Xylene	22.65	91	44298	0.940 ng		95
71) n-Nonane	22.91	43	81376	2.598 ng		97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1147	0.055 ng	#	1
74) Cumene	23.41	105	6232	0.105 ng		93
75) alpha-Pinene	23.90	93	2295807	75.207 ng		90
76) n-Propylbenzene	24.05	91	17999	0.240 ng		85
77) 3-Ethyltoluene	24.17	105	42661	0.750 ng		100
78) 4-Ethyltoluene	24.22	105	24050	0.436 ng		92
79) 1,3,5-Trimethylbenzene	24.32	105	21292	0.458 ng		100

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1499	0.060	ng	88
81) 2-Ethyltoluene	24.56	105	19632	0.342	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	71754	1.513	ng	87
83) n-Decane	24.93	57	98197	3.184	ng	88
84) Benzyl Chloride	24.99	91	2957	0.067	ng	80
85) 1,3-Dichlorobenzene	25.02	146	108	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	5202	0.203	ng	95
87) sec-Butylbenzene	25.16	105	3479	0.054	ng	72
88) 4-Isopropyltoluene (p-...)	25.35	119	177958	3.115	ng	93
89) 1,2,3-Trimethylbenzene	25.35	105	28734	0.595	ng	39
90) 1,2-Dichlorobenzene	25.52	146	215	N.D.		
91) d-Limonene	25.53	68	674672	33.449	ng	77
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	46049	1.404	ng	# 67
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	25002	0.388	ng	93
96) n-Dodecane	27.69	57	38026	0.998	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	17373	0.825	ng	92
99) tert-Butylbenzene	25.27	119	6171	0.134	ng	99
100) n-Butylbenzene	25.91	91	18233	0.345	ng	# 76

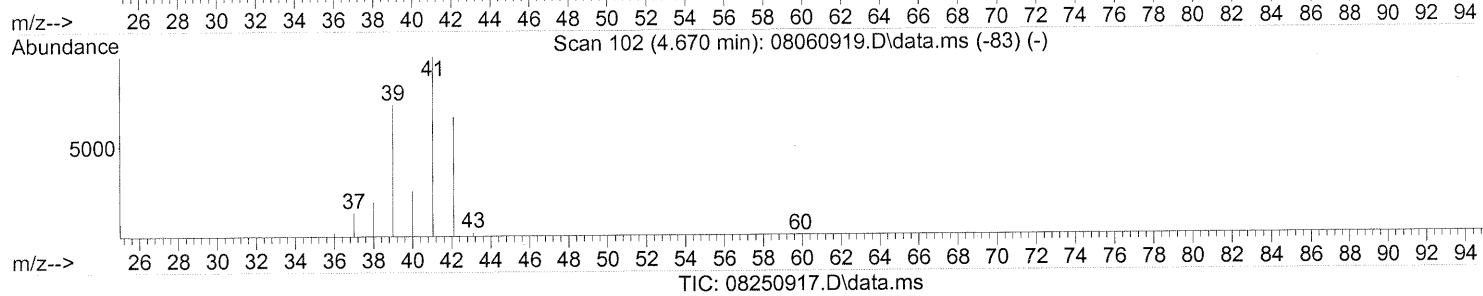
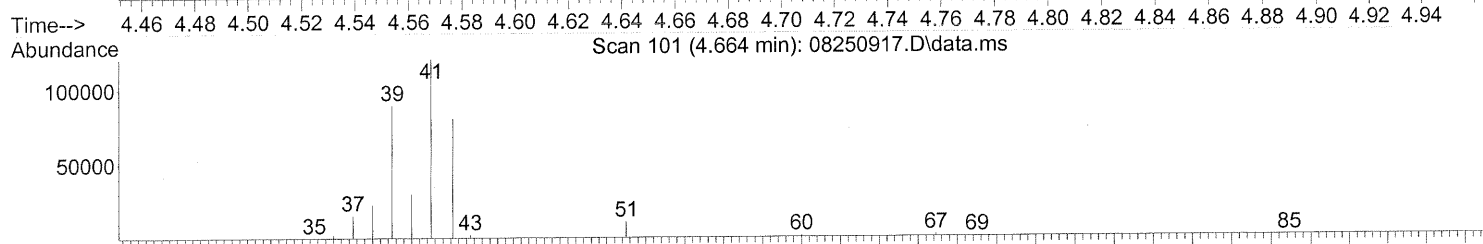
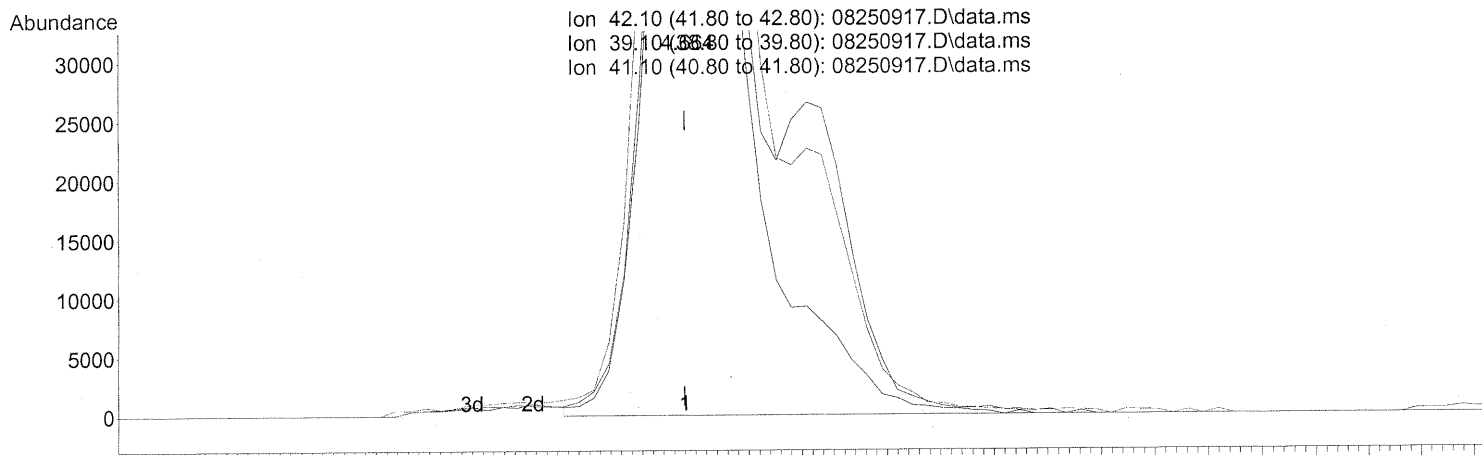
NOT NEEDED

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 10.86ng

response 183374

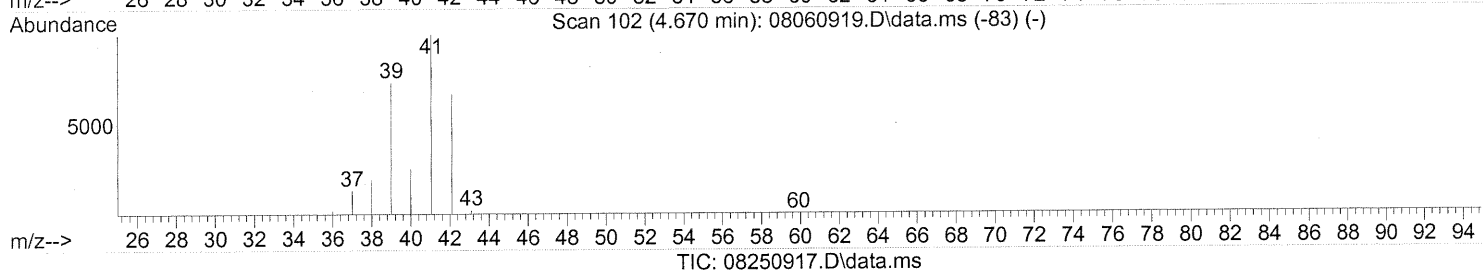
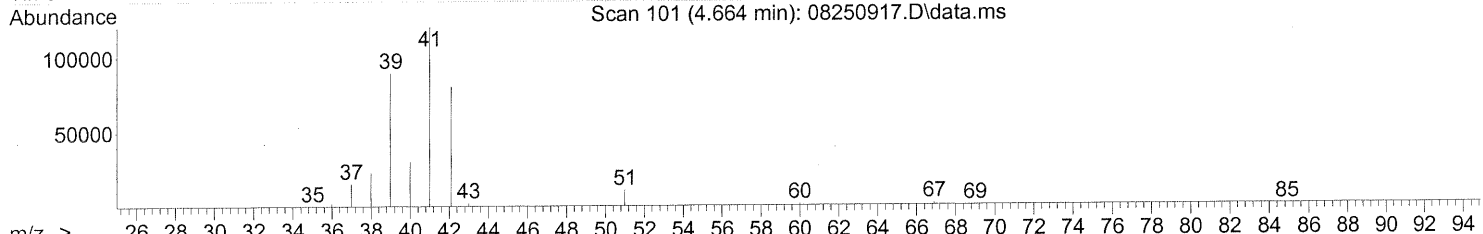
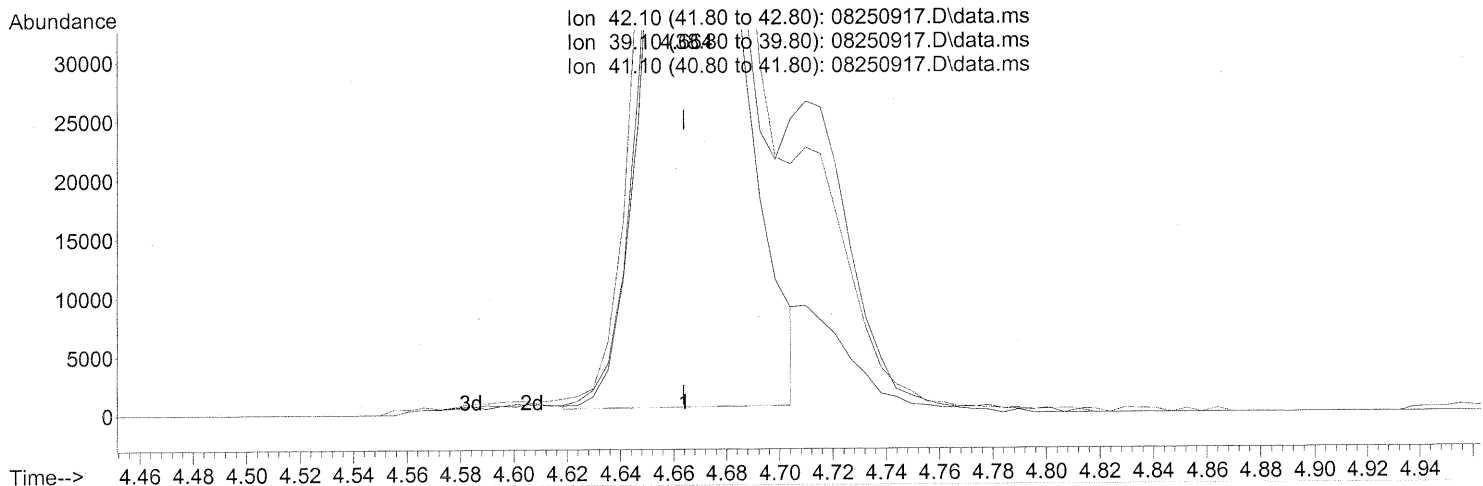
Ion	Exp%	Act%
42.10	100	100
39.10	111.90	128.66
41.10	150.20	163.39
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 9.91ng m

response 167389

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	140.95#
41.10	150.20	178.99#
0.00	0.00	0.00

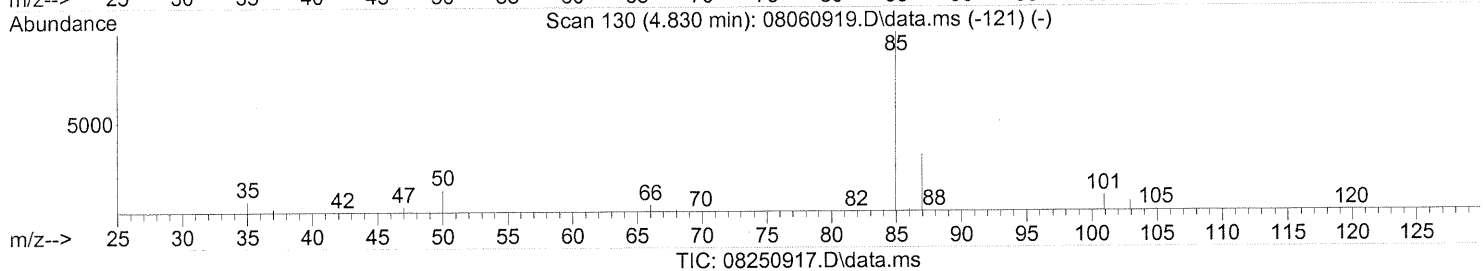
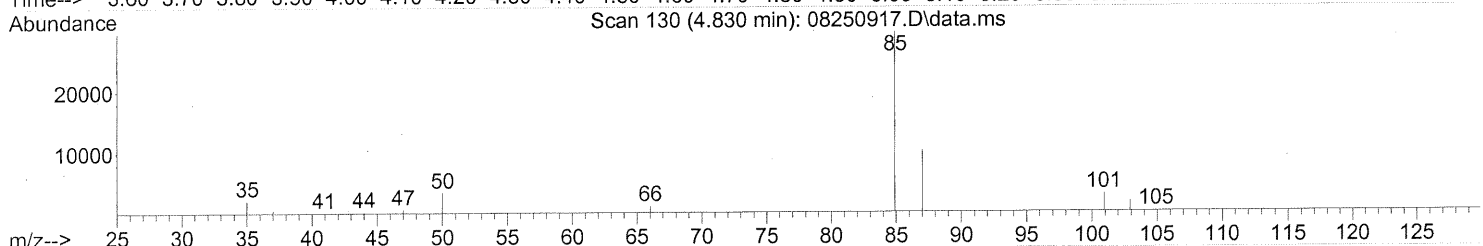
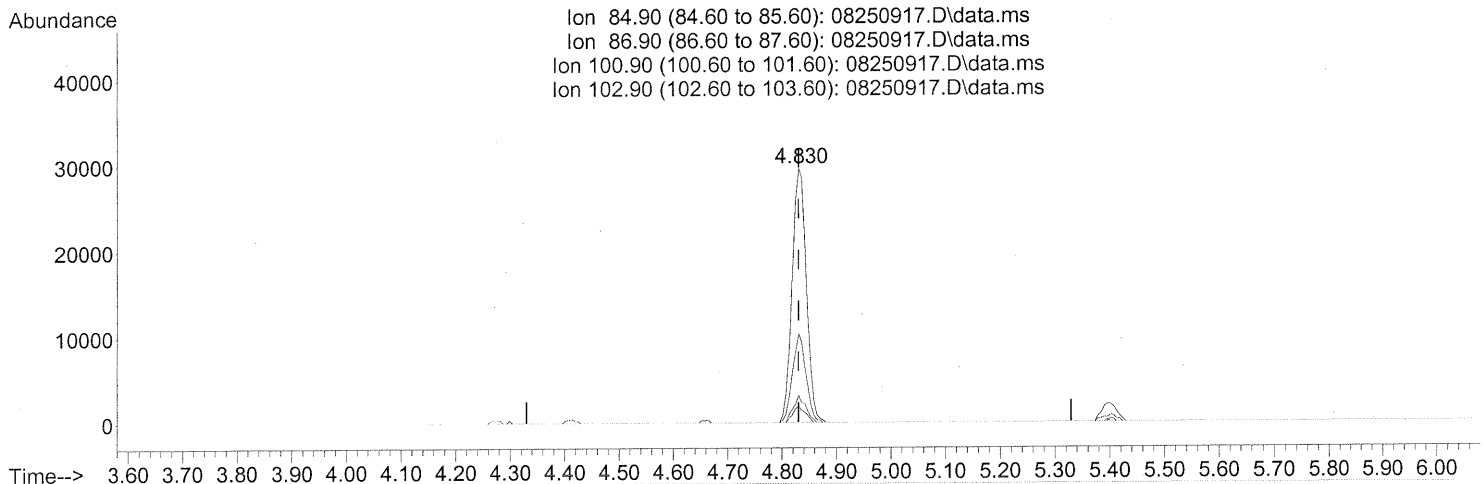
SH → IC
11/8/31/09

E 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.830min (+0.000) 1.95ng

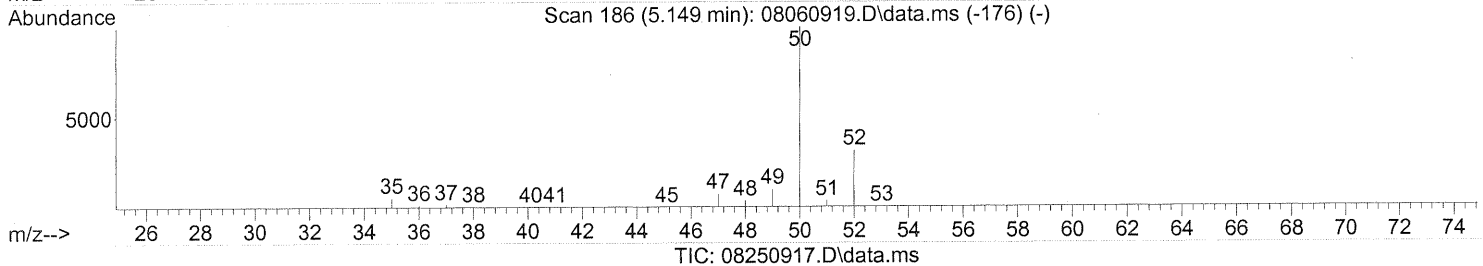
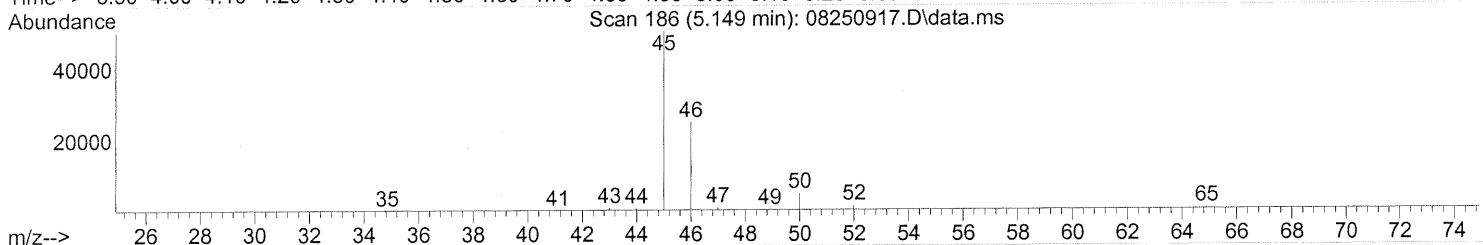
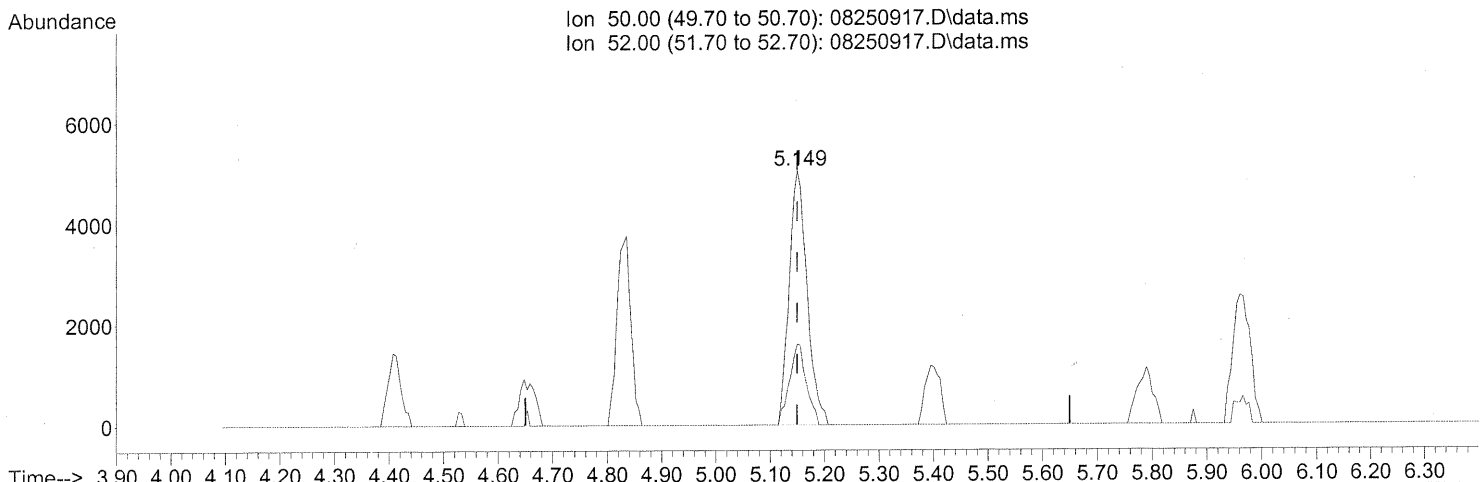
response 53715

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	33.25
100.90	8.80	9.35
102.90	5.20	5.55

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



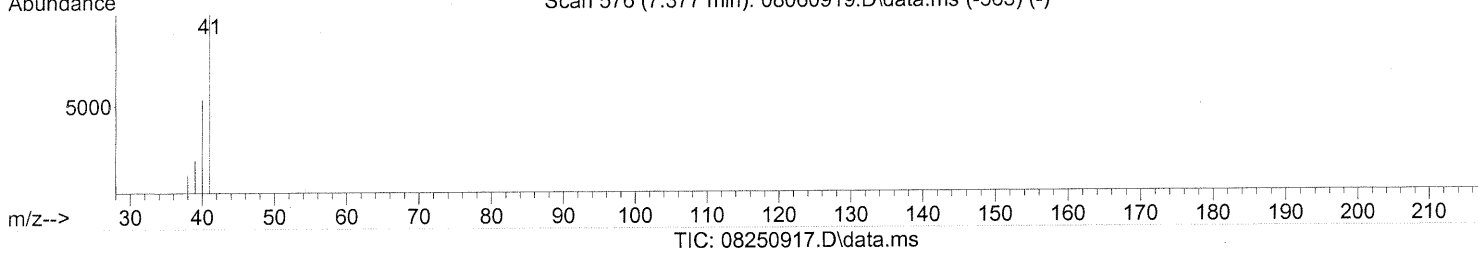
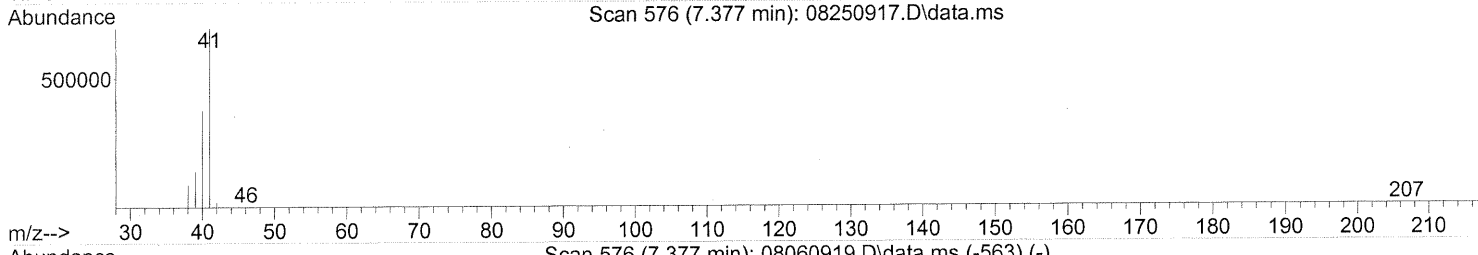
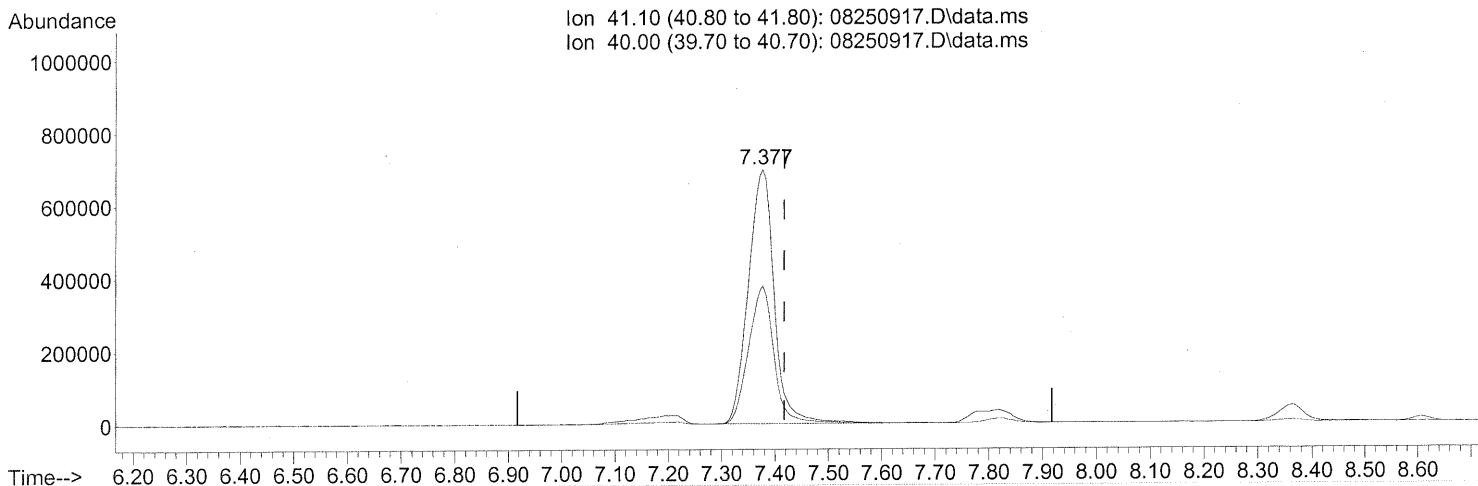
(4) Chloromethane (T)
 5.149min (+0.000) 0.62ng
 response 11522

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.377min (-0.040) 74.56ng

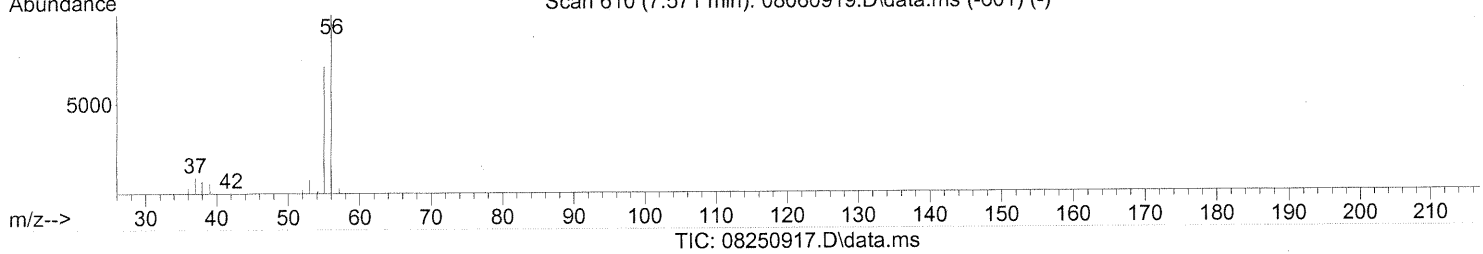
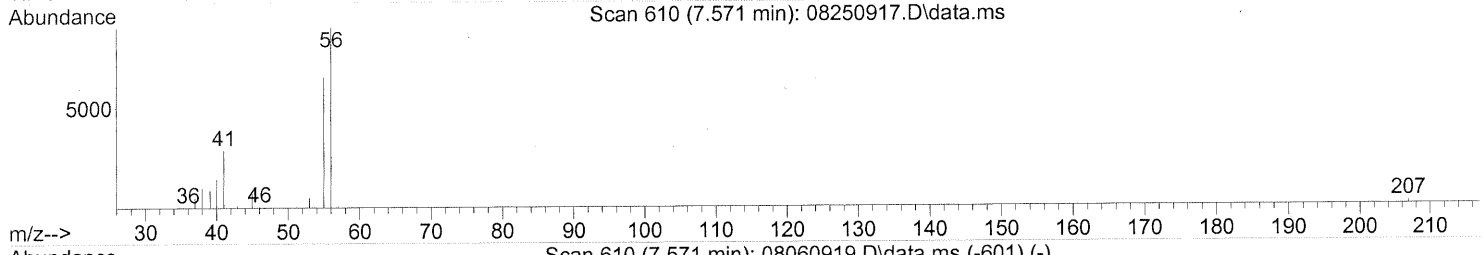
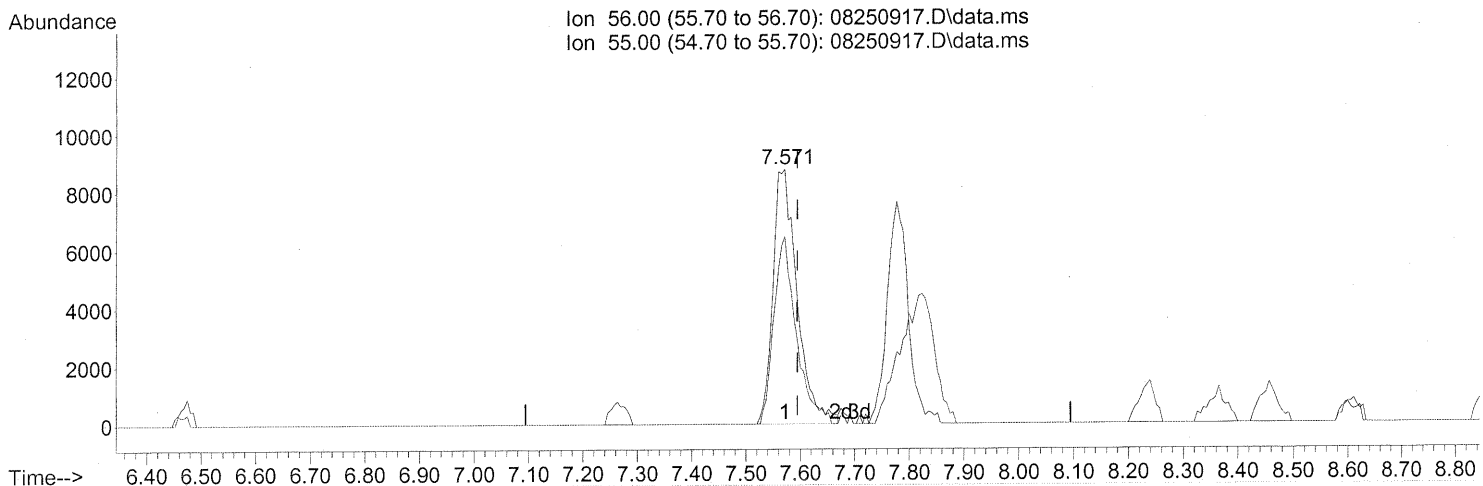
response 2336830

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.571min (-0.023) 3.31ng

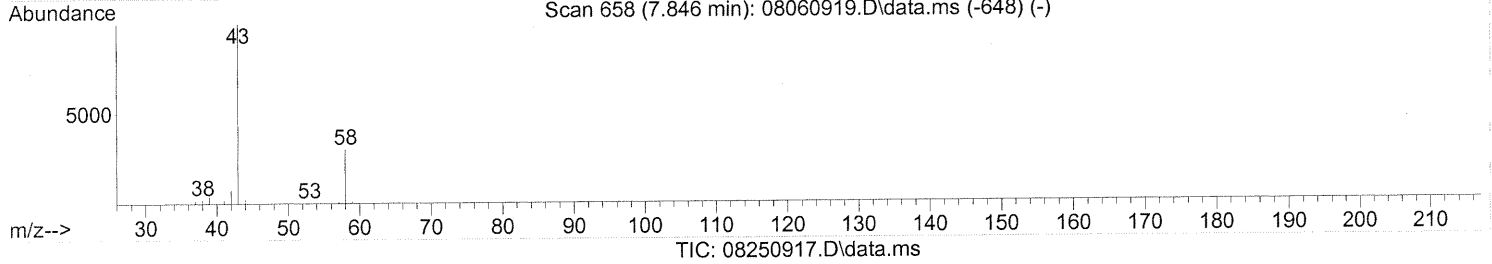
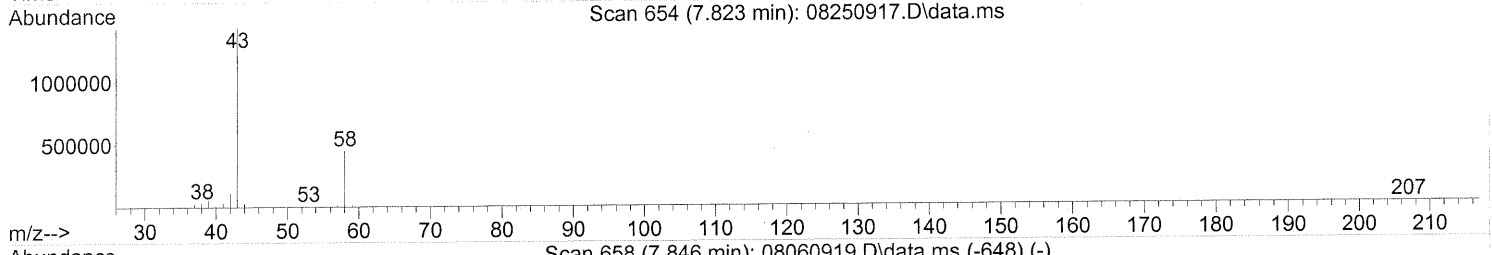
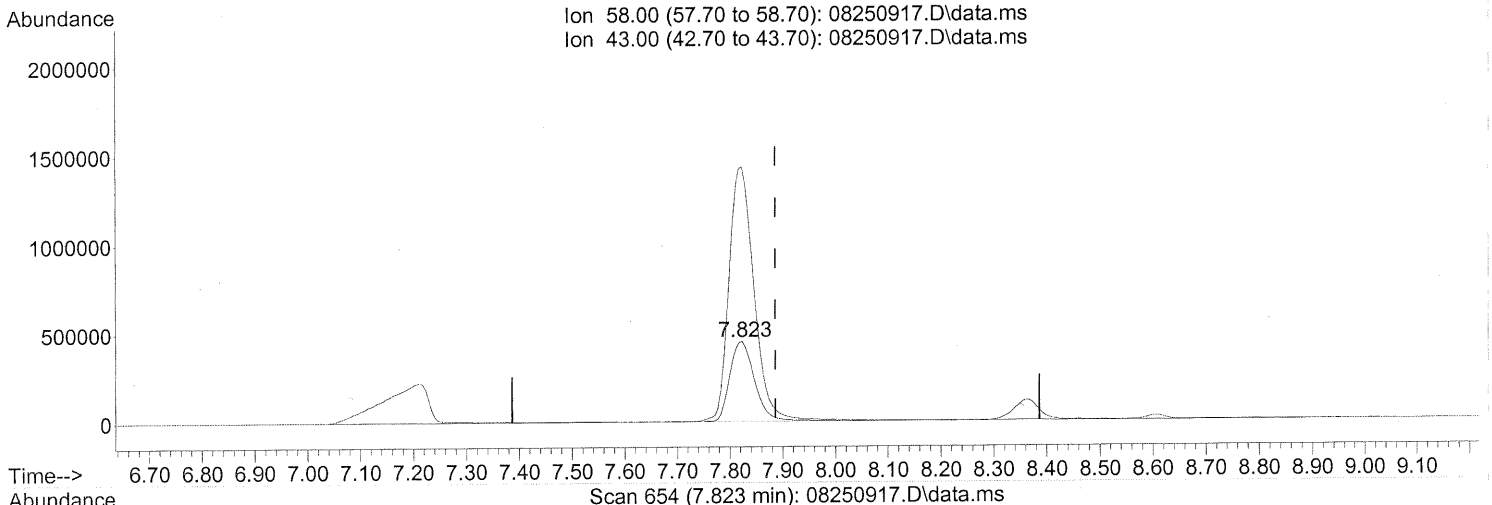
response 26927

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.823min (-0.063) 145.96ng

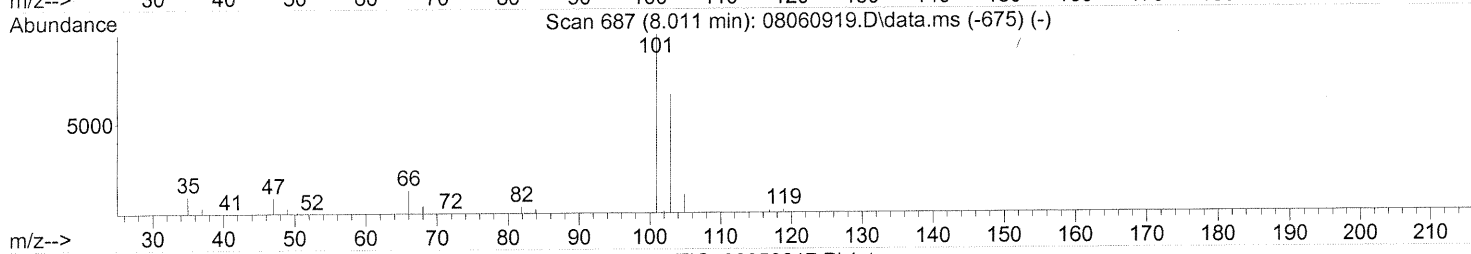
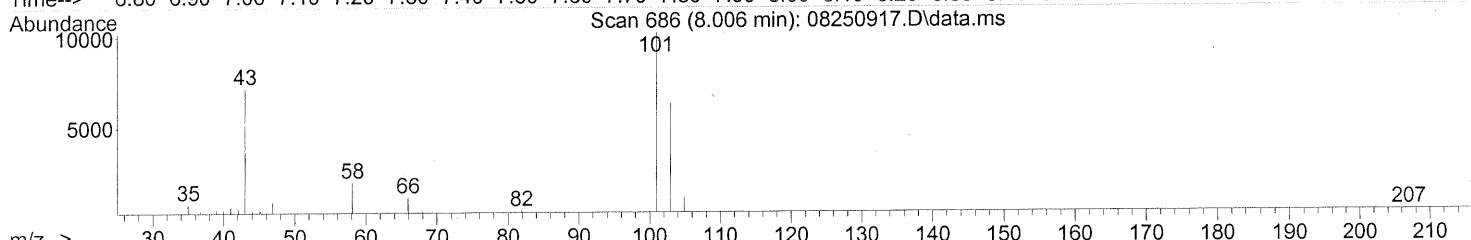
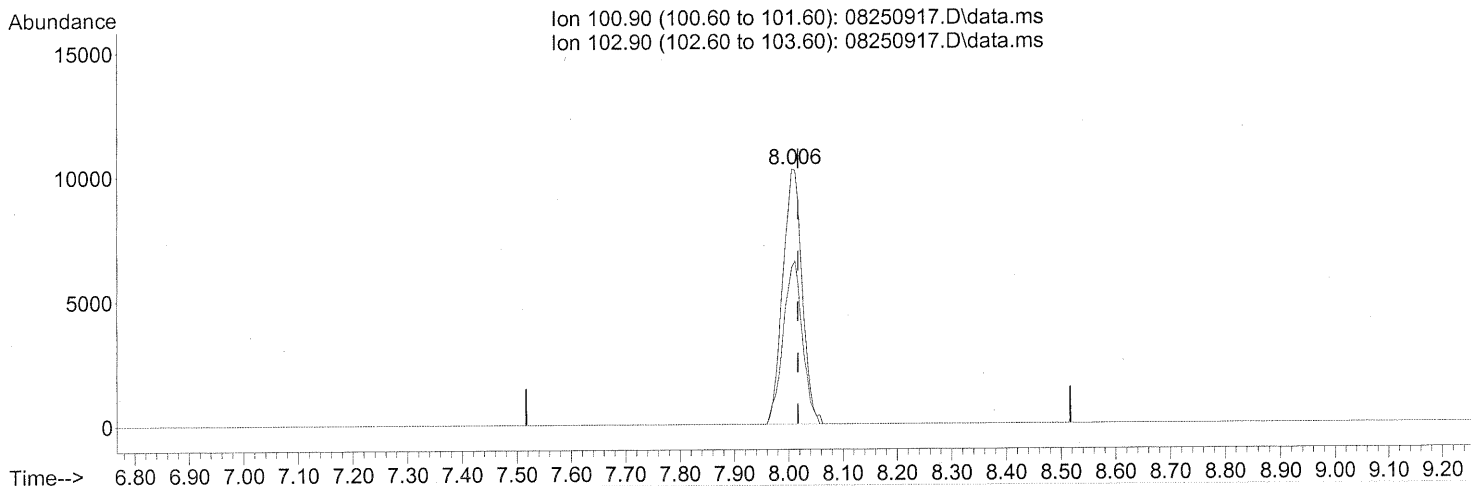
response 1473833

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	323.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250917.D
Acq On : 25 Aug 2009 10:17 pm
Operator : WA/CC
Sample : P0902876-001 (1000mL)
Misc : Environmental Health 102349
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250917.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.011) 1.01ng

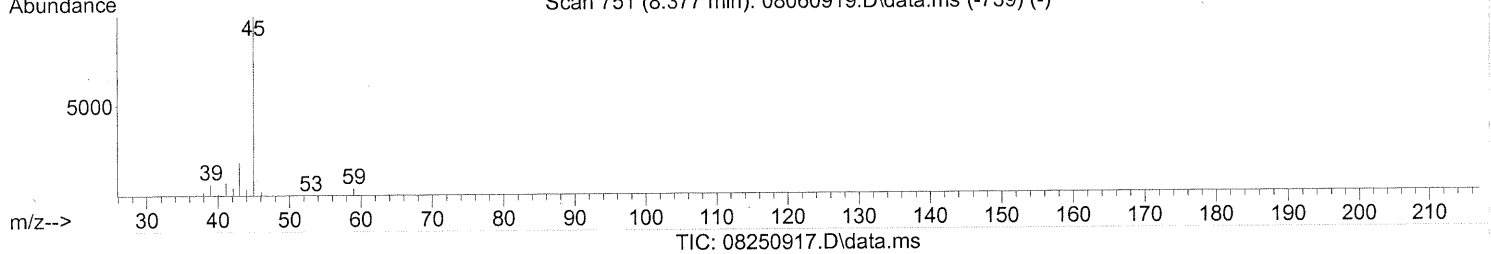
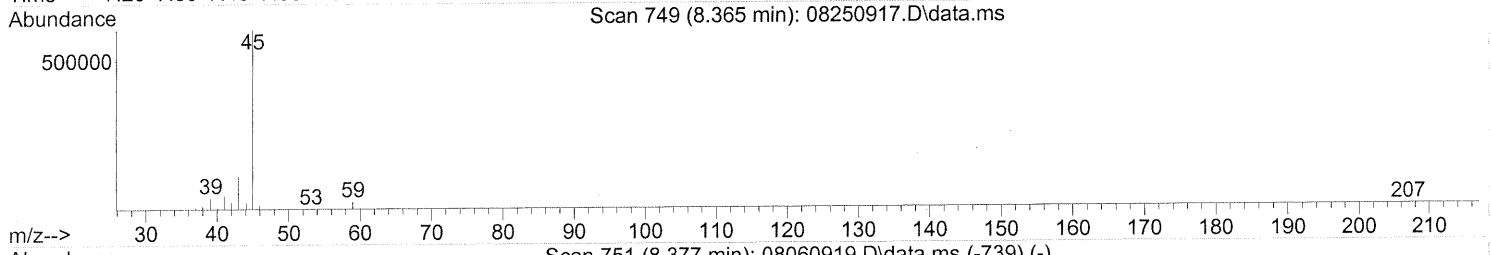
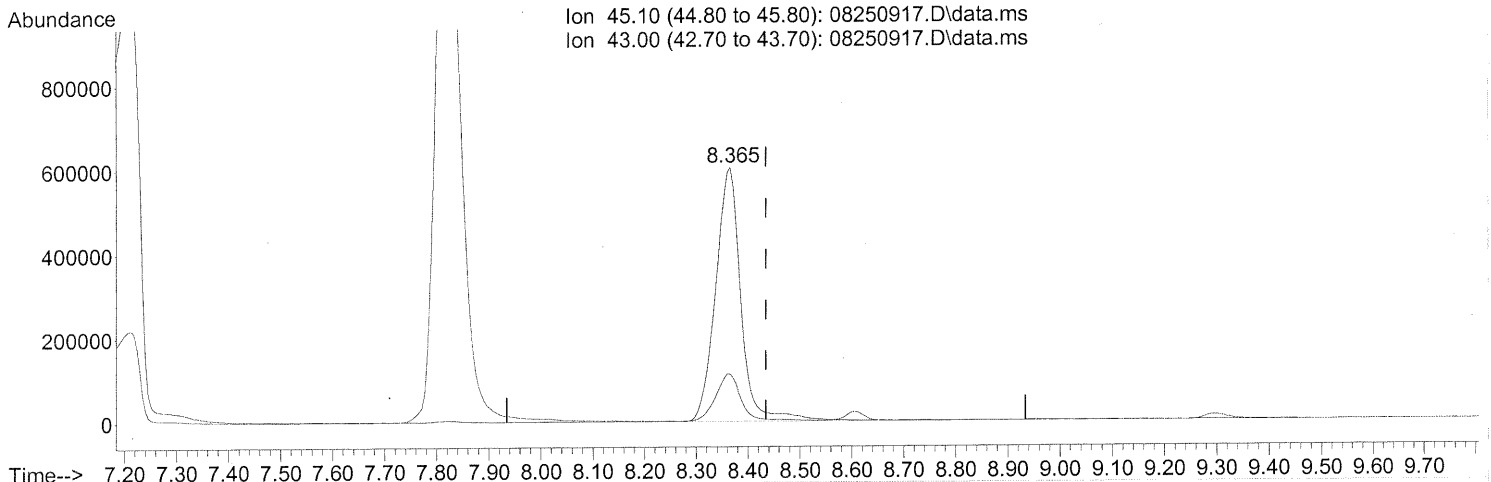
response 25268

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250917.D
Acq On : 25 Aug 2009 10:17 pm
Operator : WA/CC
Sample : P0902876-001 (1000mL)
Misc : Environmental Health 102349
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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

8.365min (-0.068) 52.07ng

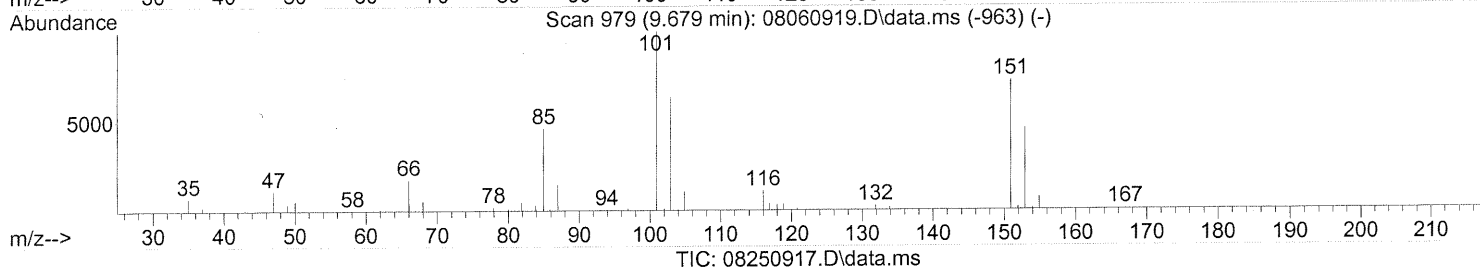
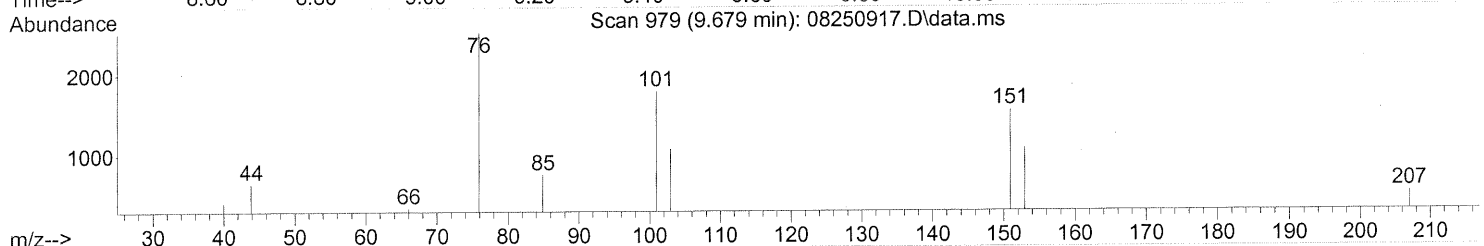
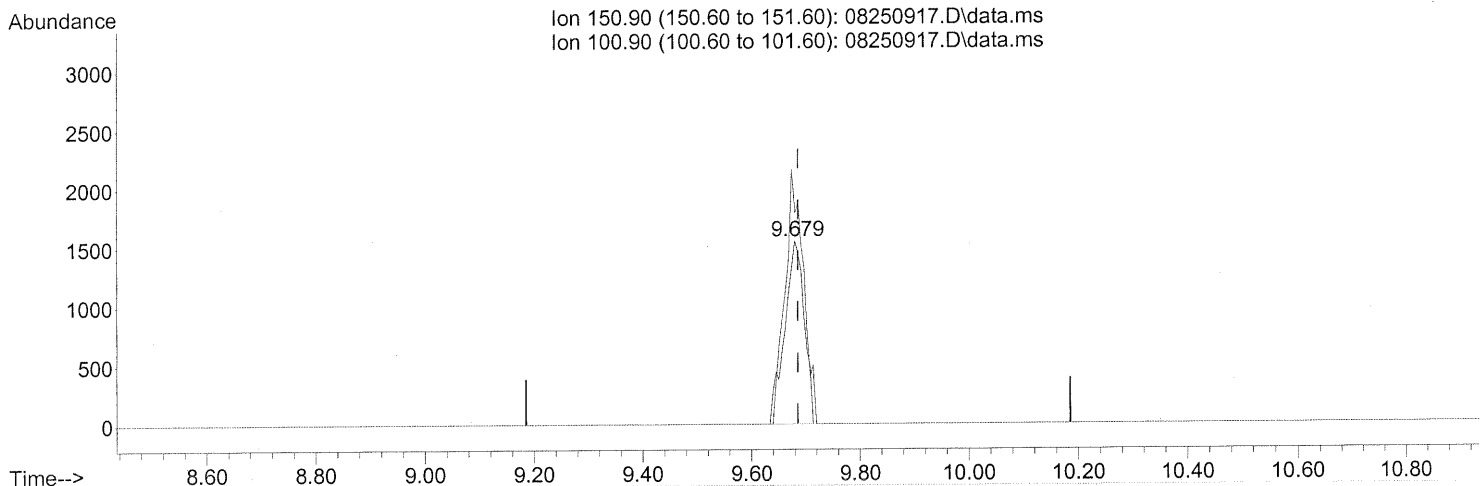
response 2065987

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.43ng

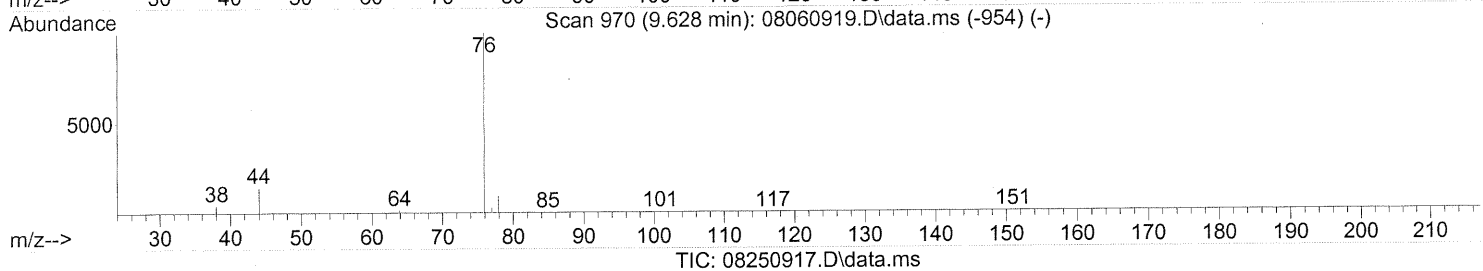
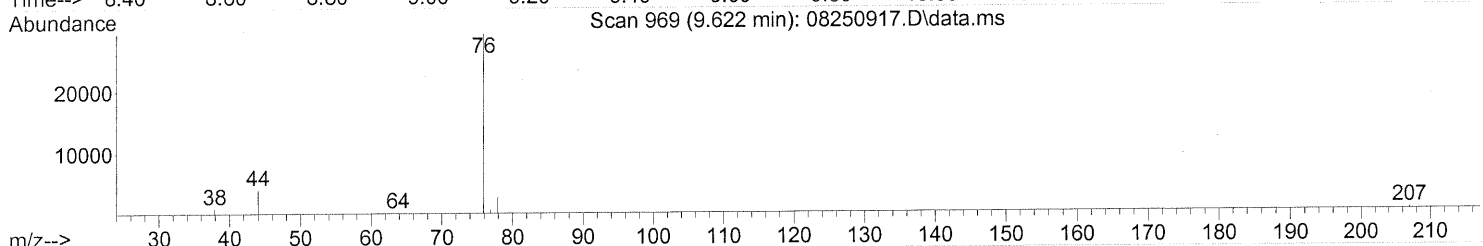
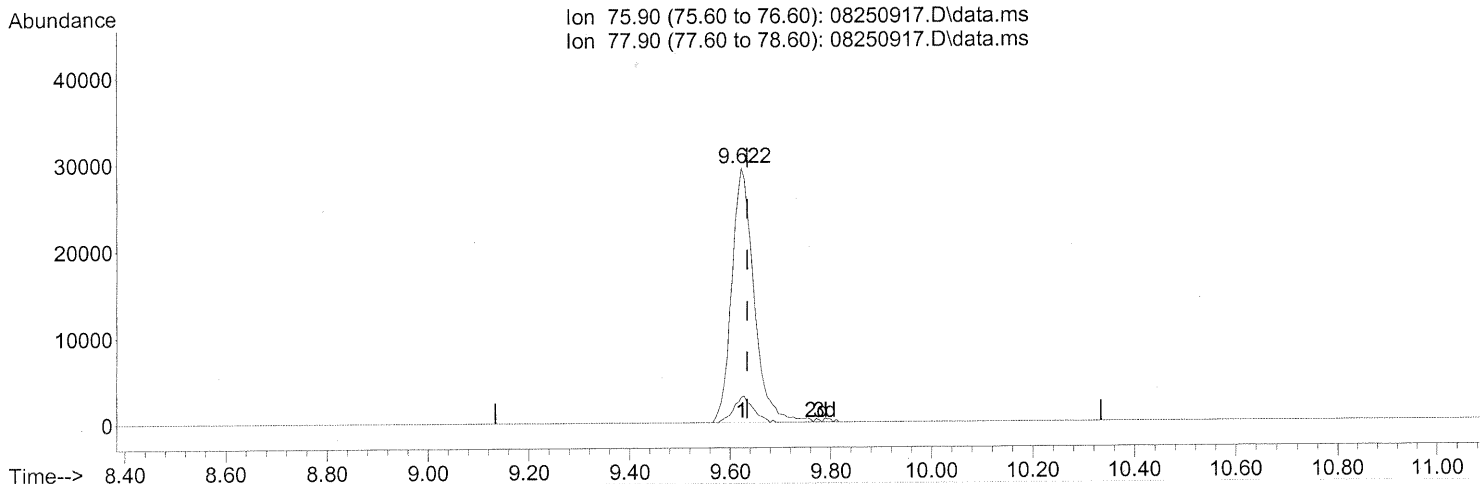
response 3856

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	131.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.622min (-0.011) 1.89ng

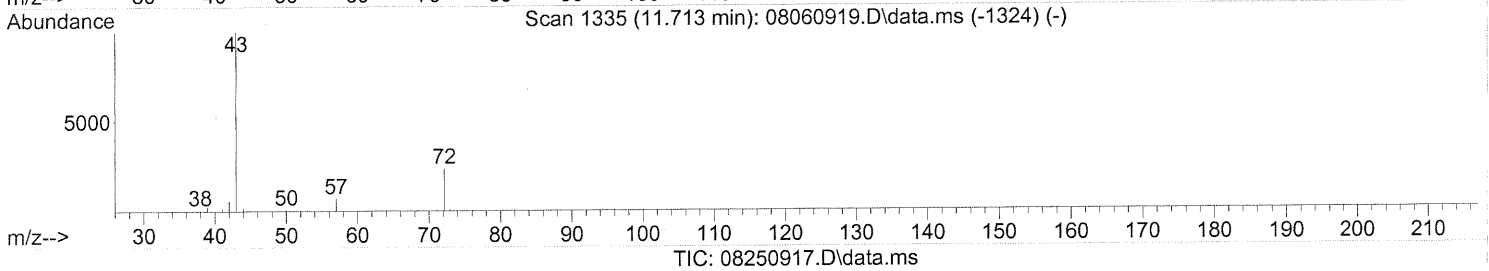
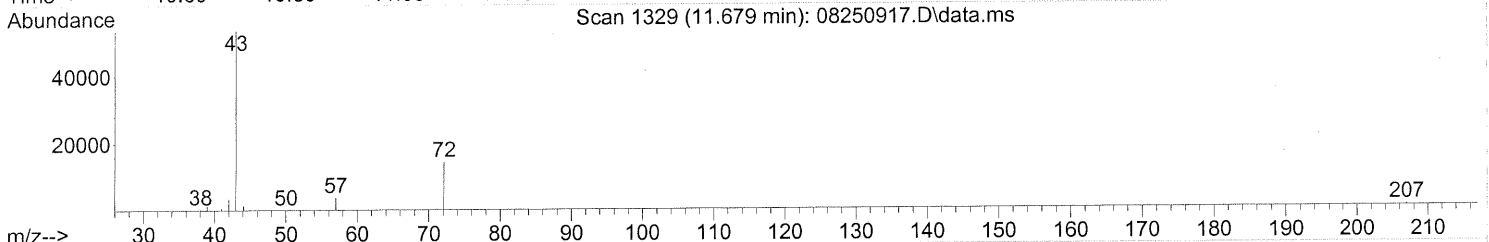
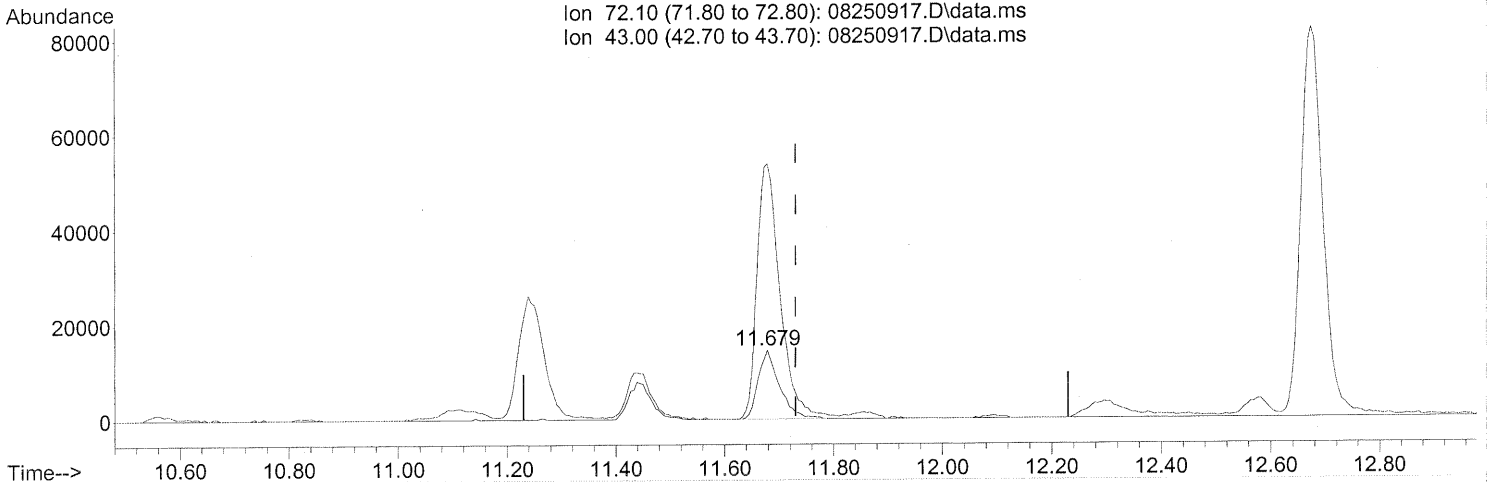
response 90386

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.679min (-0.051) 4.29ng

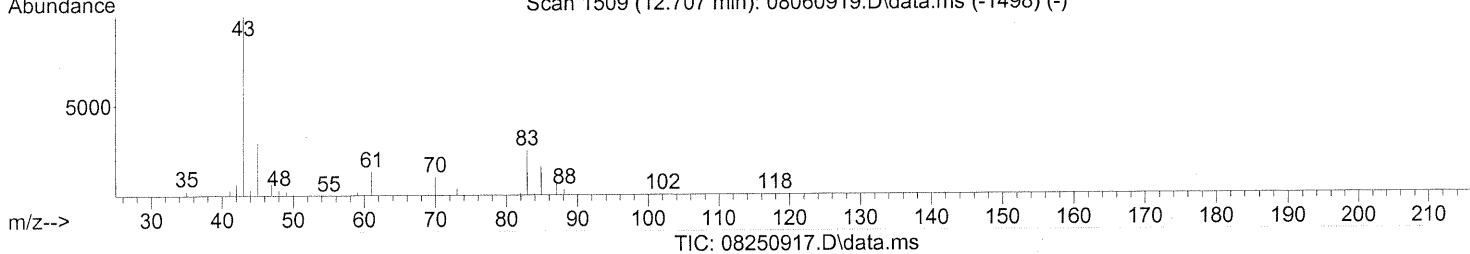
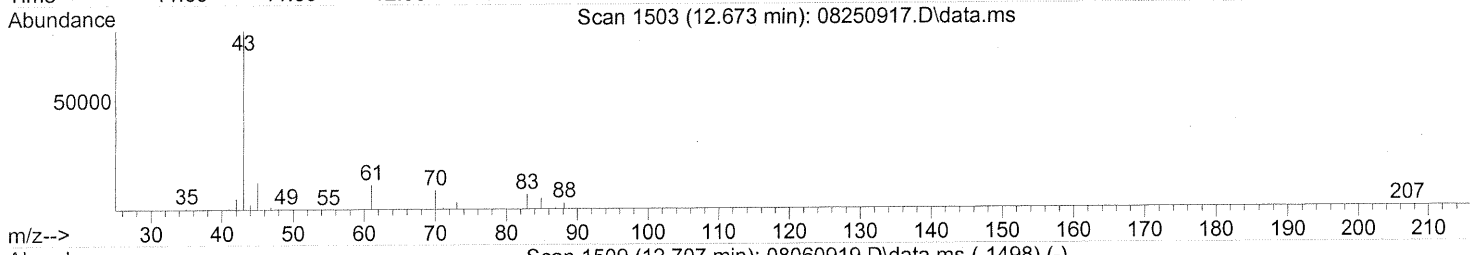
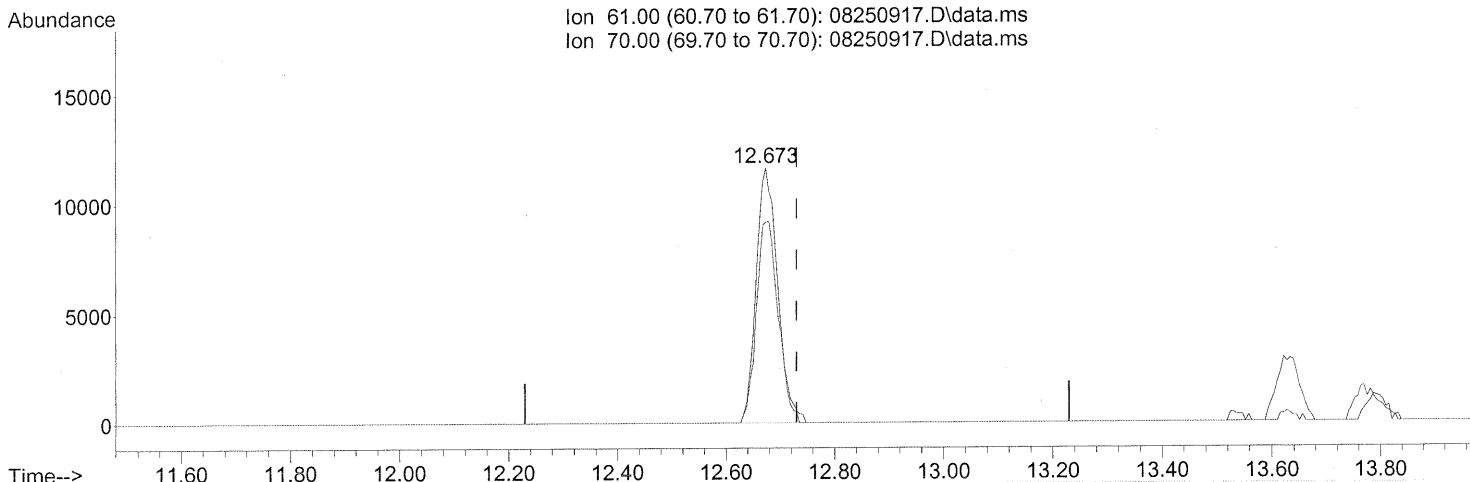
response 39111

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	405.95#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



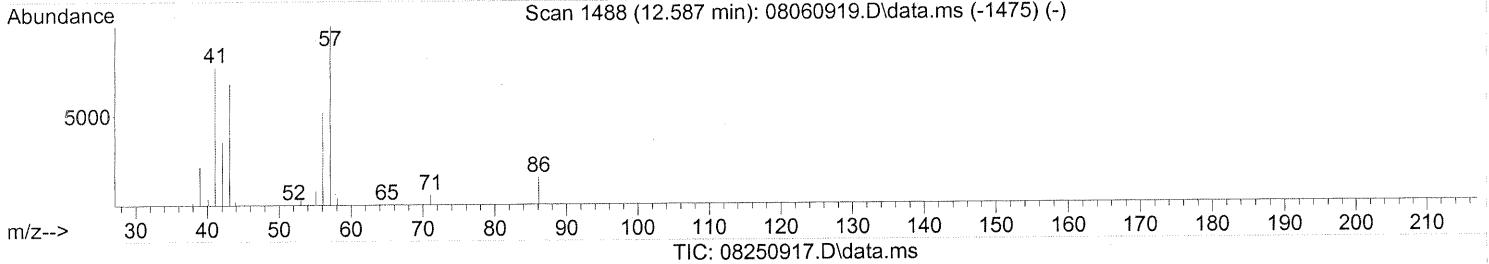
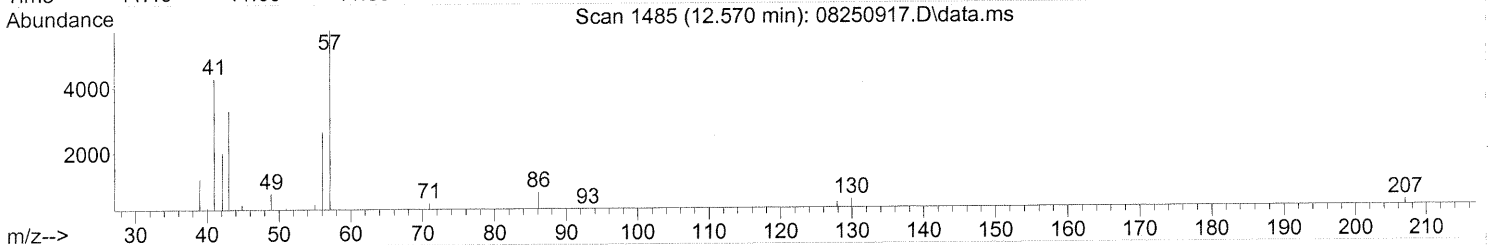
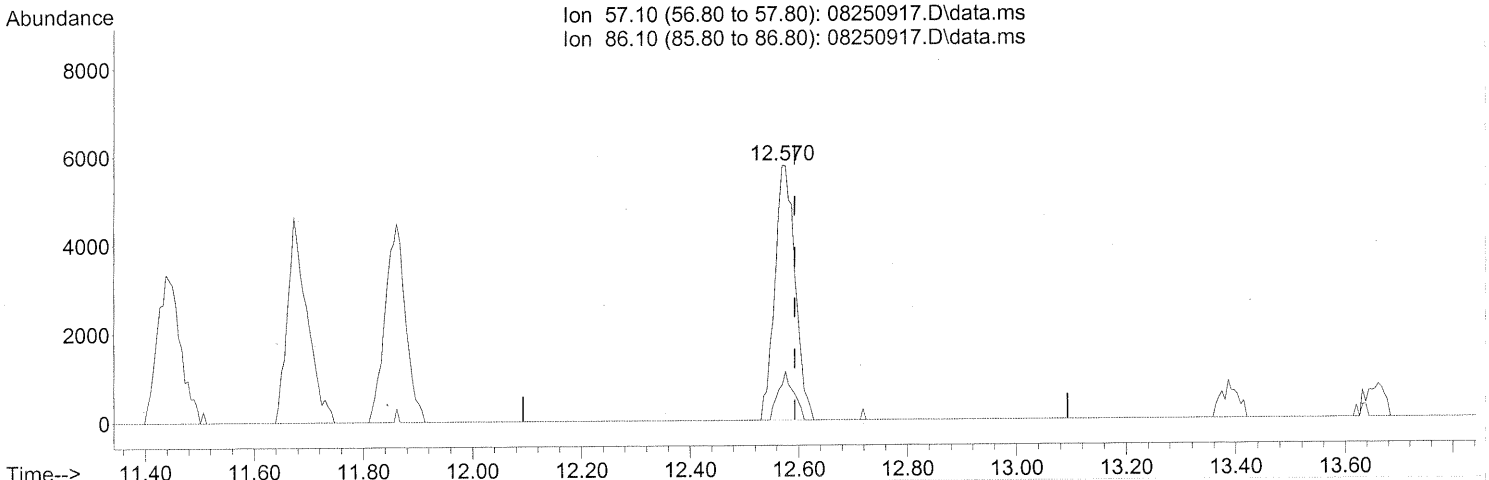
(30) Ethyl Acetate (T)
 12.673min (-0.057) 6.73ng
 response 31942

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



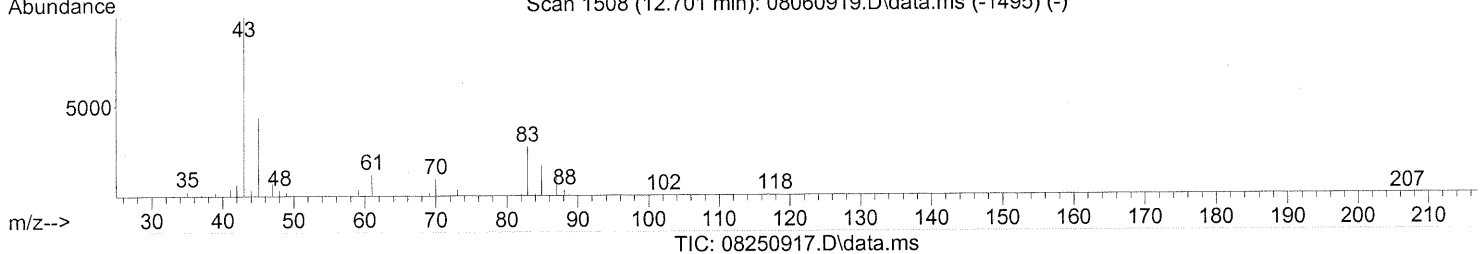
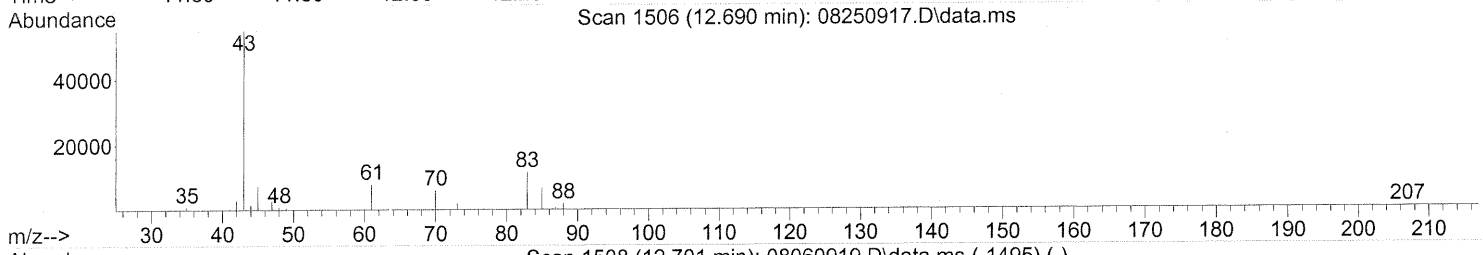
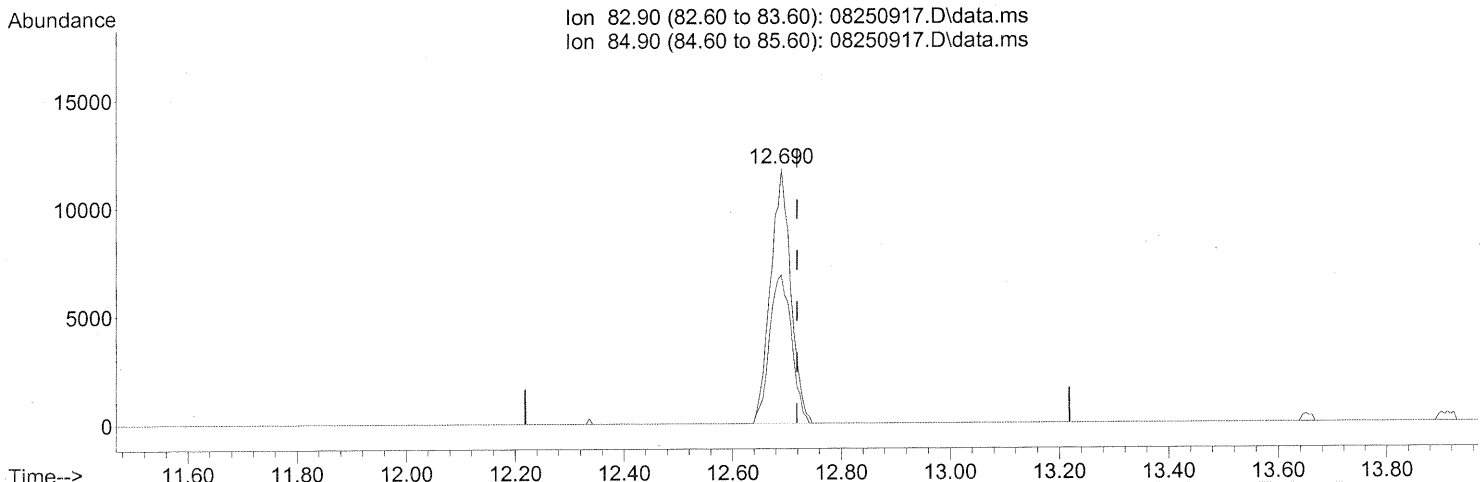
(31) n-Hexane (T)
 12.570min (-0.023) 0.61ng
 response 14845

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.690min (-0.028) 1.42ng

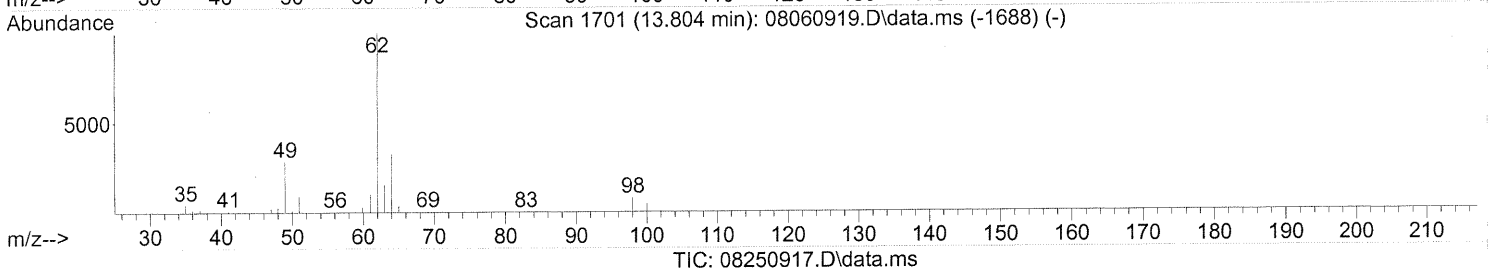
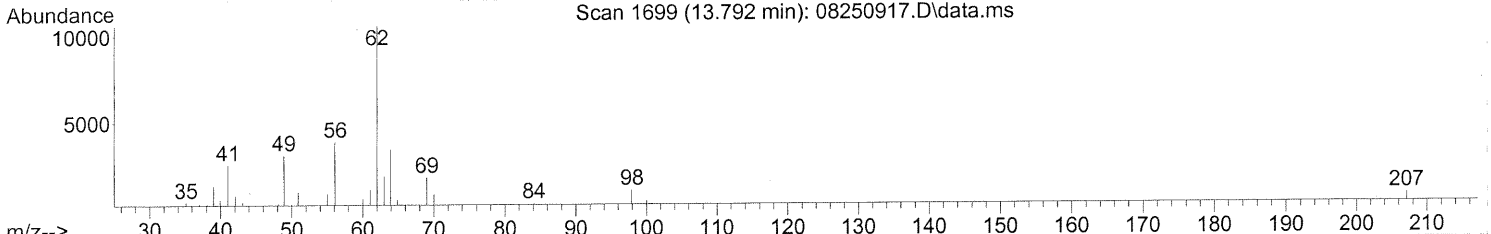
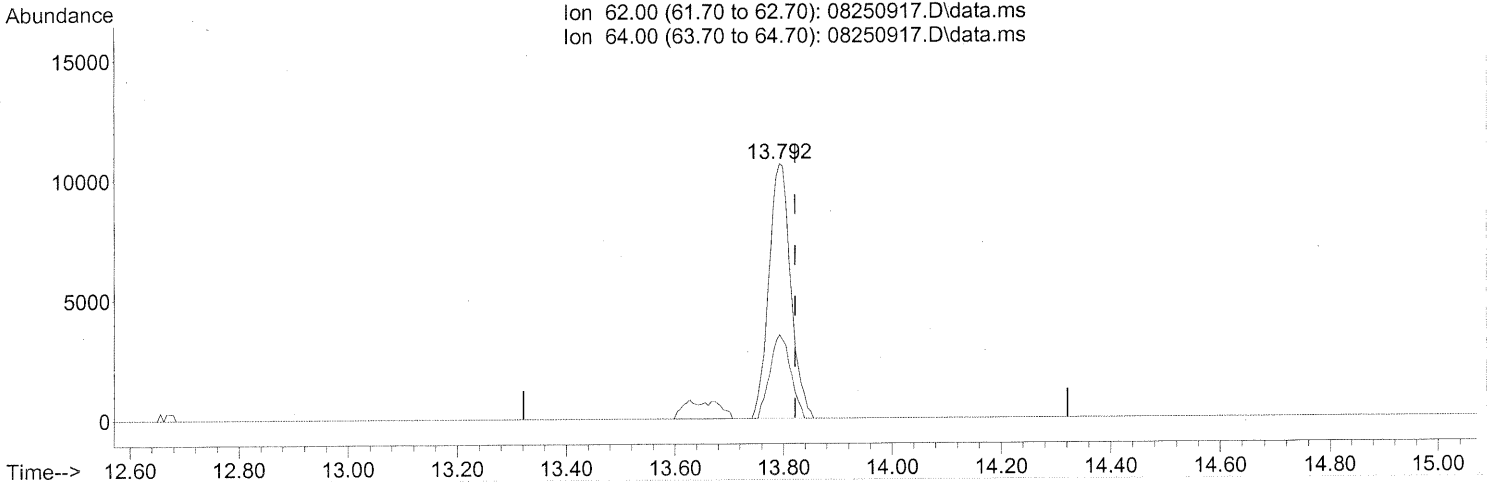
response 30315

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	63.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 1.51ng

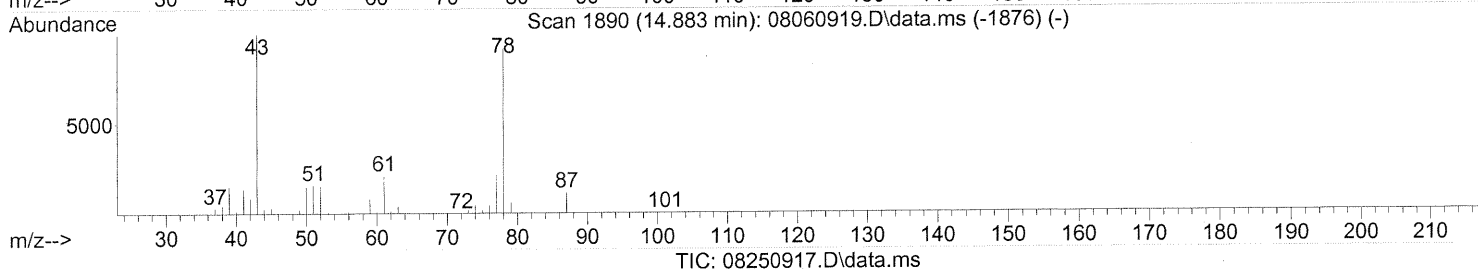
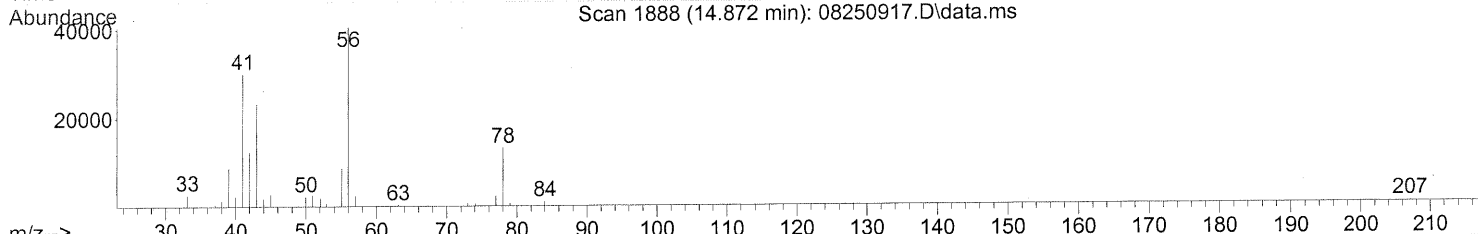
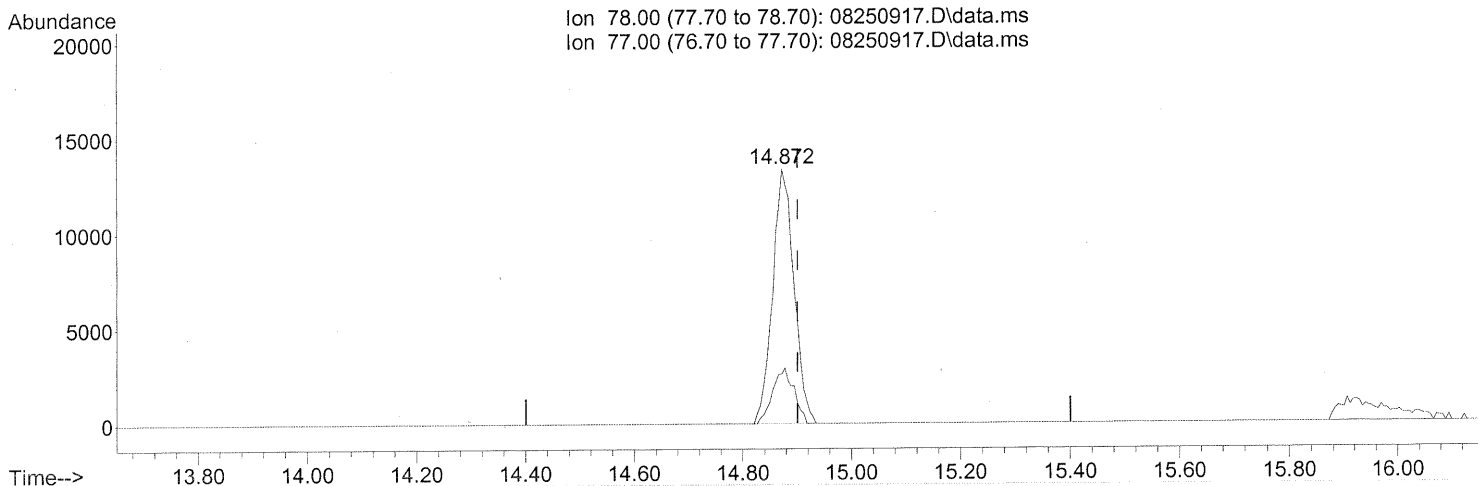
response 29500

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.872min (-0.028) 0.67ng

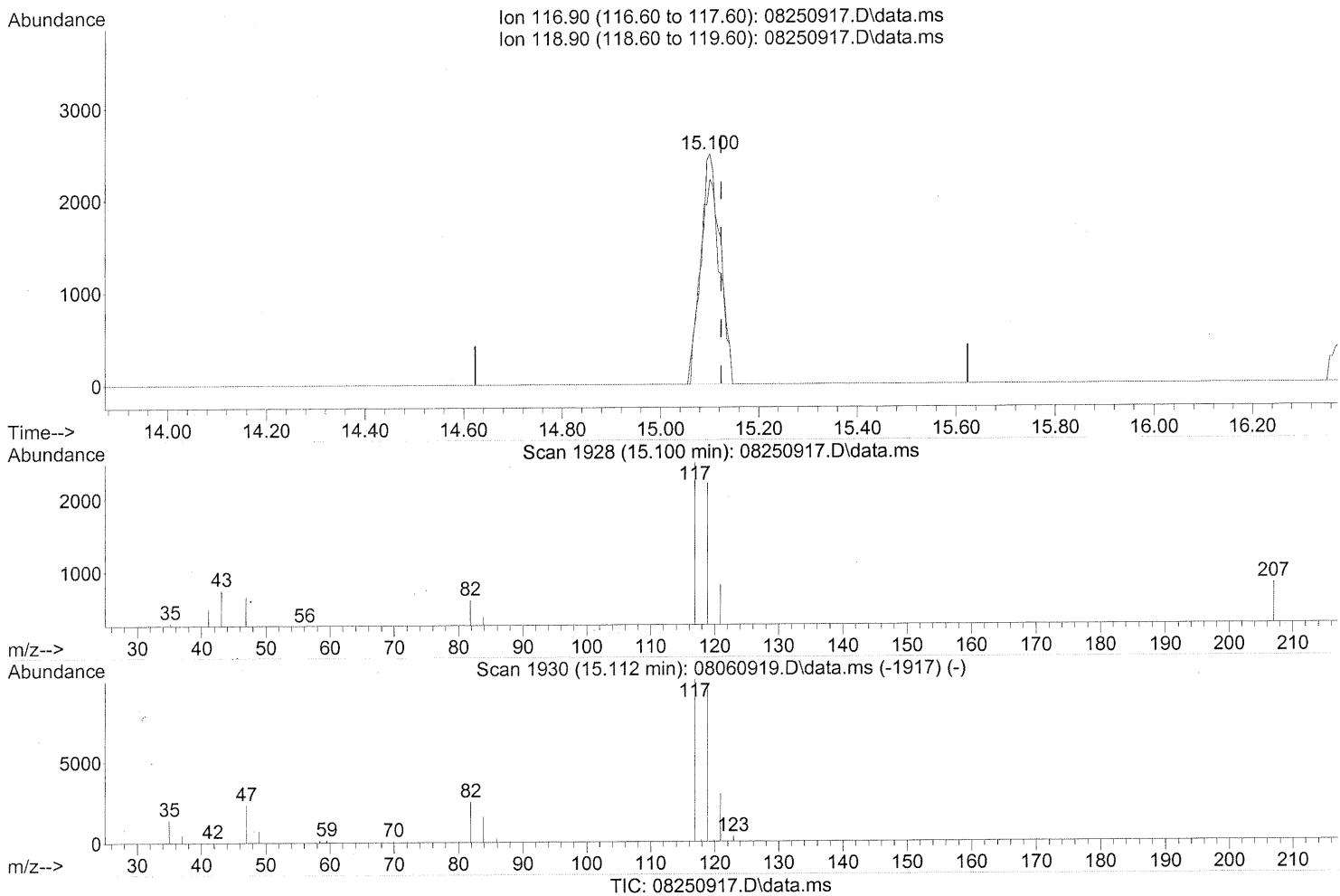
response 36348

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	21.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.39ng

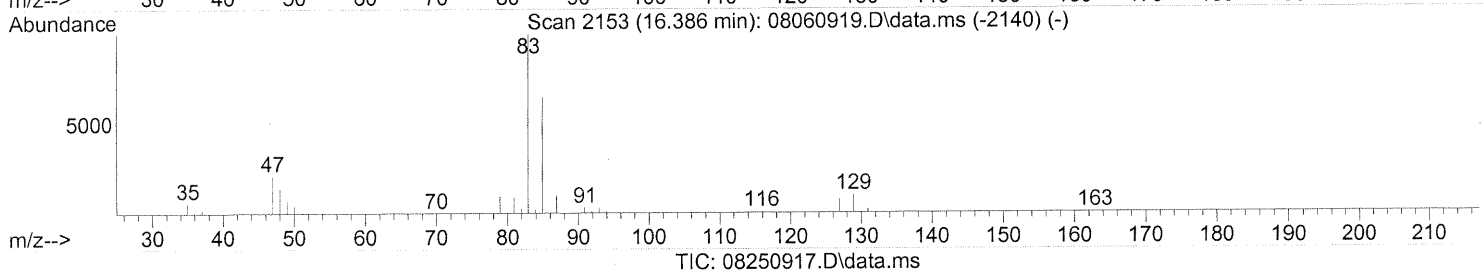
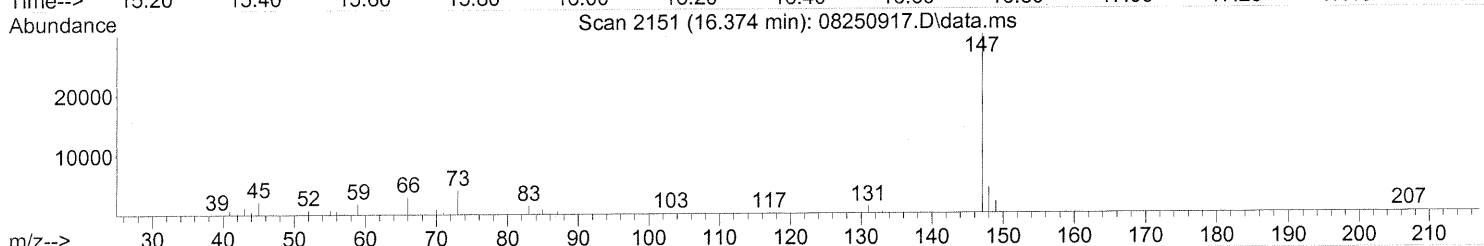
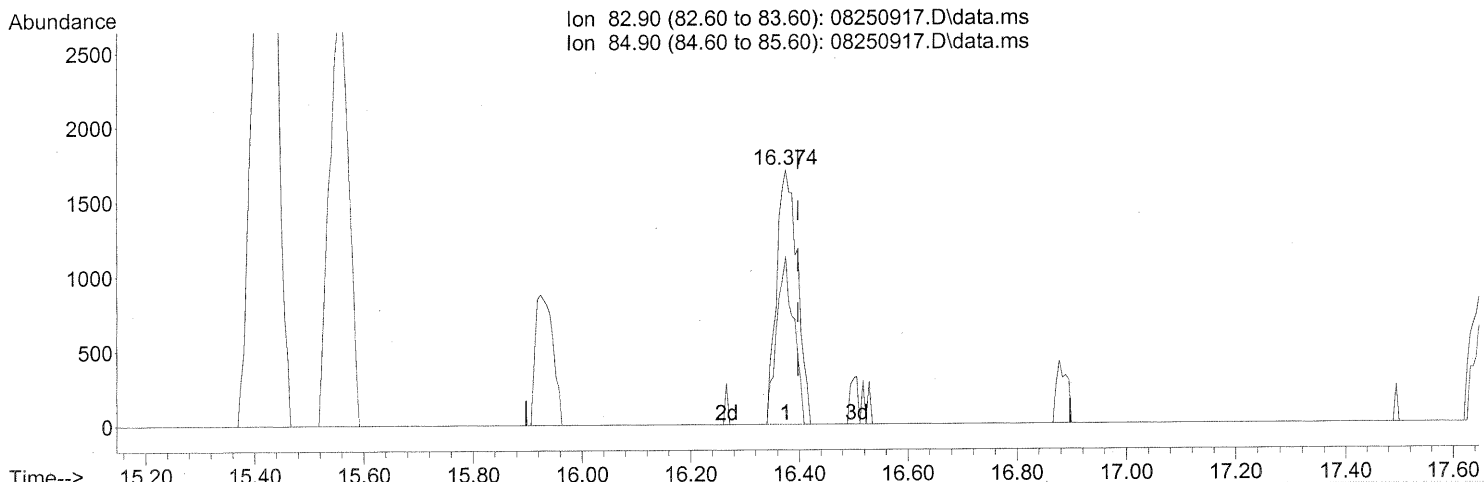
response 6780

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	91.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



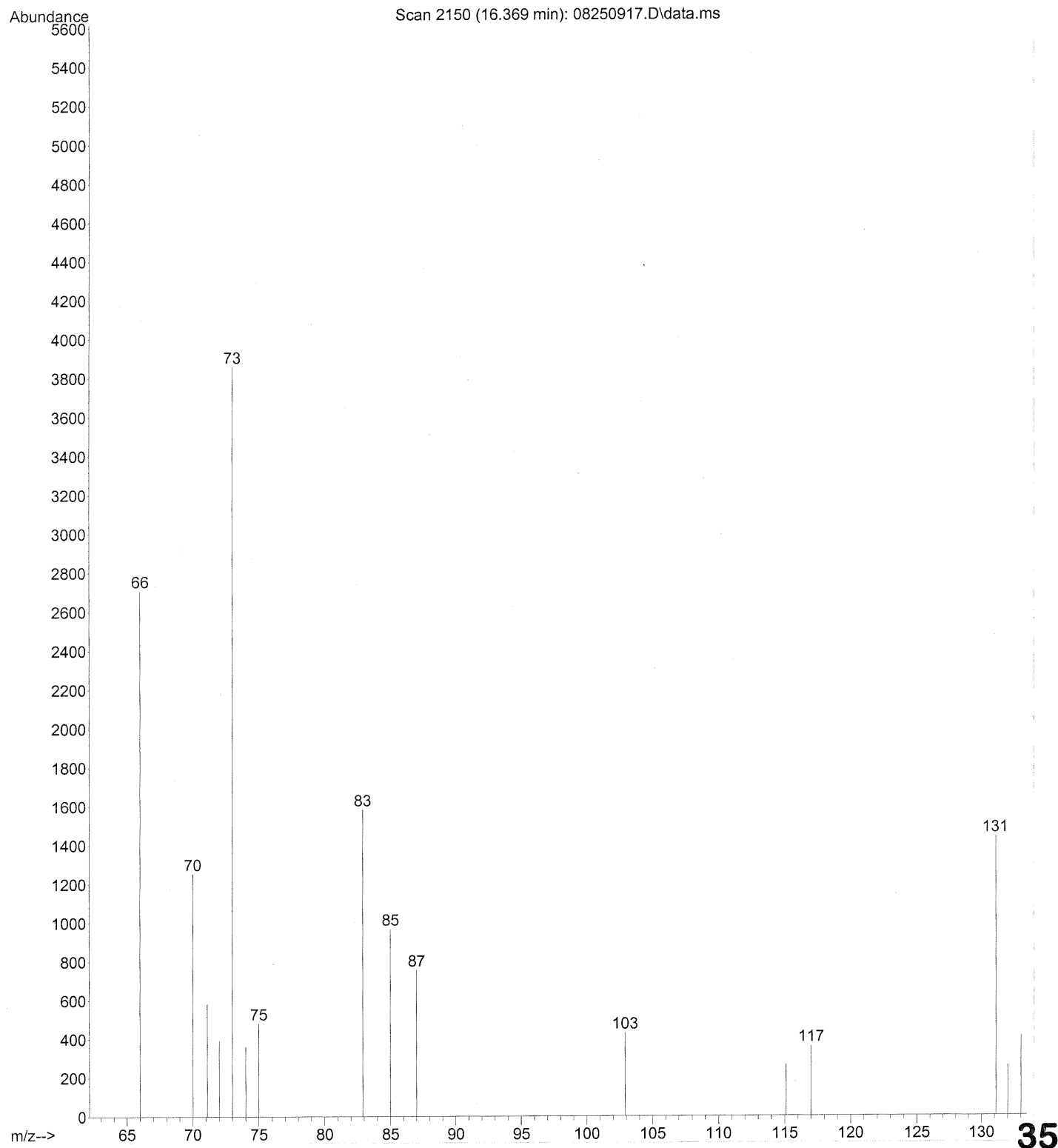
(46) Bromodichloromethane (T)

16.374min (-0.023) 0.25ng

response 4536

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	54.19
0.00	0.00	0.00
0.00	0.00	0.00

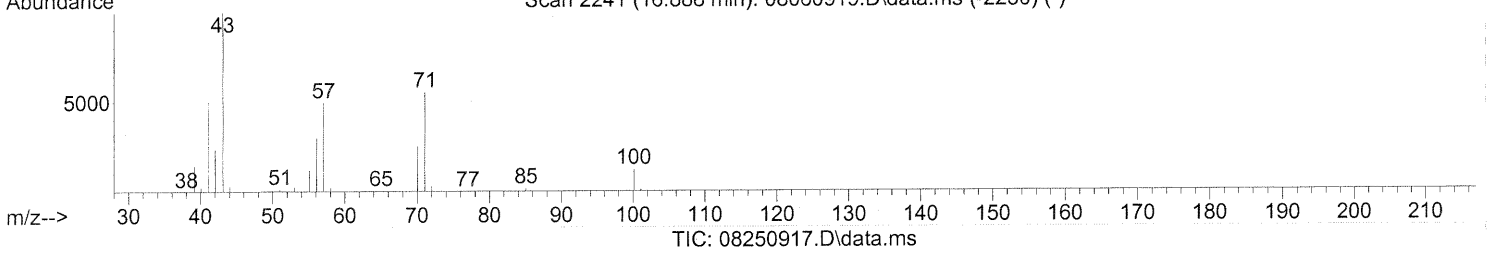
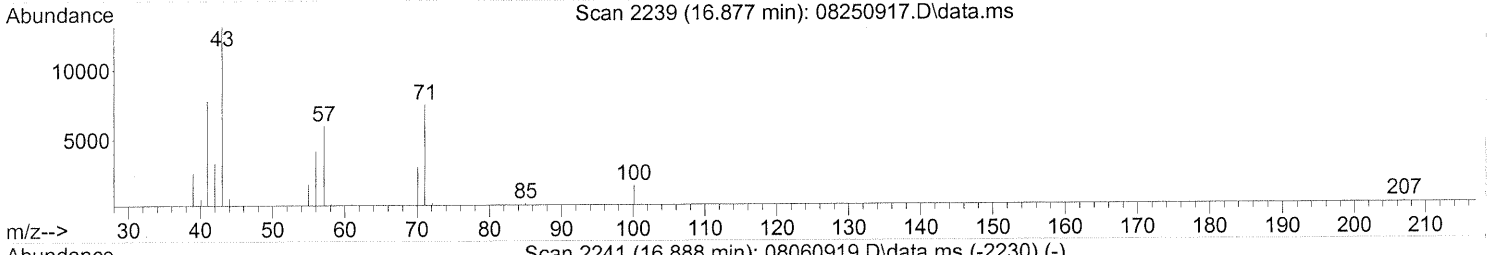
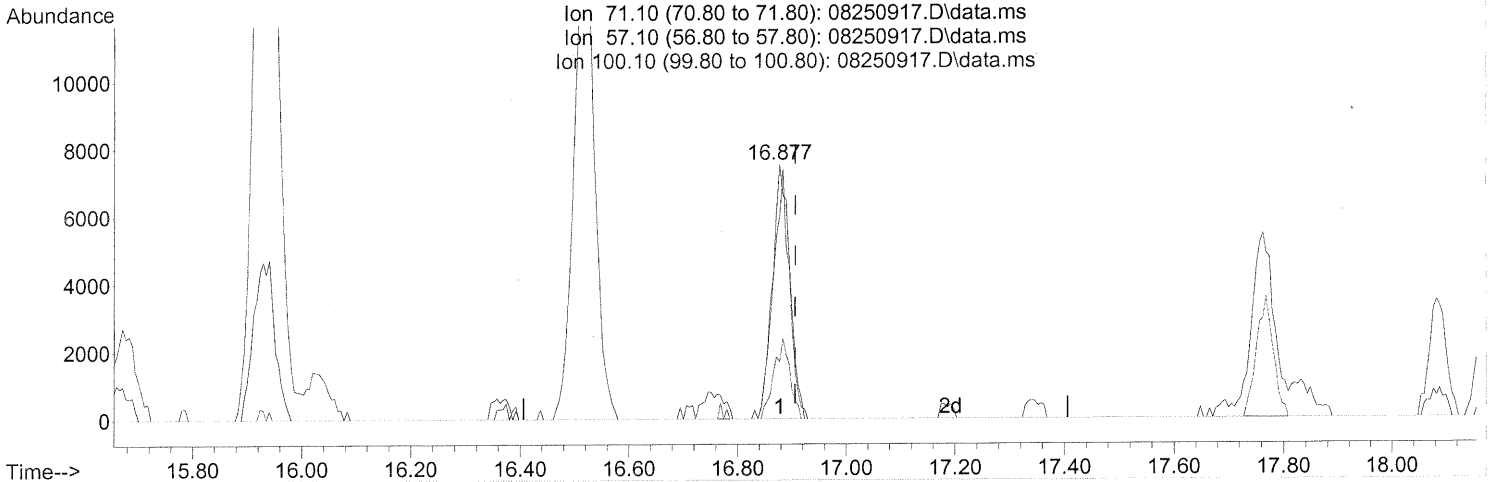
File : J:\MS13\DATA\2009_08\25\08250917.D
Operator : WA/CC
Acquired : 25 Aug 2009 10:17 pm using AcqMethod TO15.M
Instrument : GCMS13
Sample Name: P0902876-001 (1000mL)
Misc Info : Environmental Health 102349
Vial Number: 8



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.877min (-0.028) 1.15ng

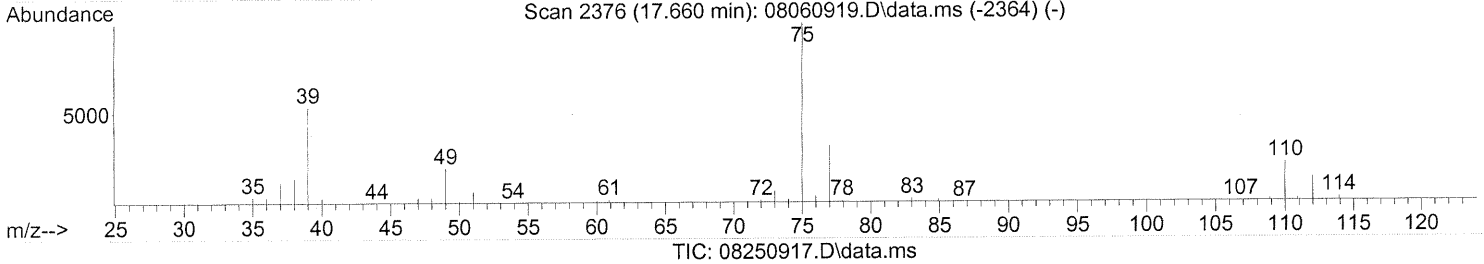
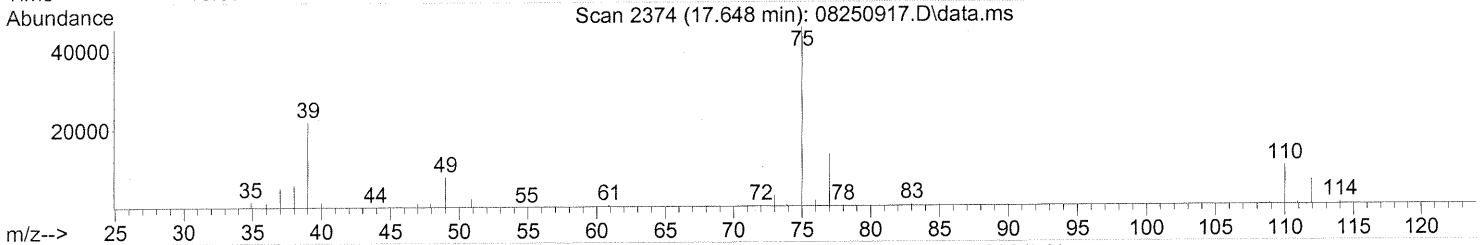
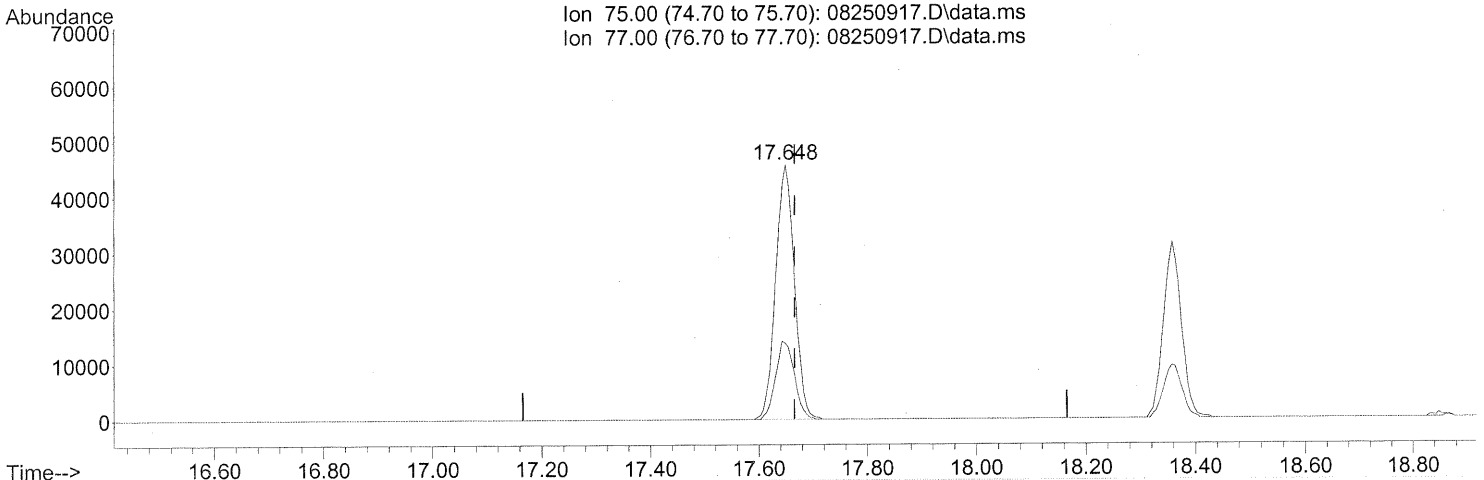
response 16780

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	90.78
100.10	26.40	28.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 4.84ng

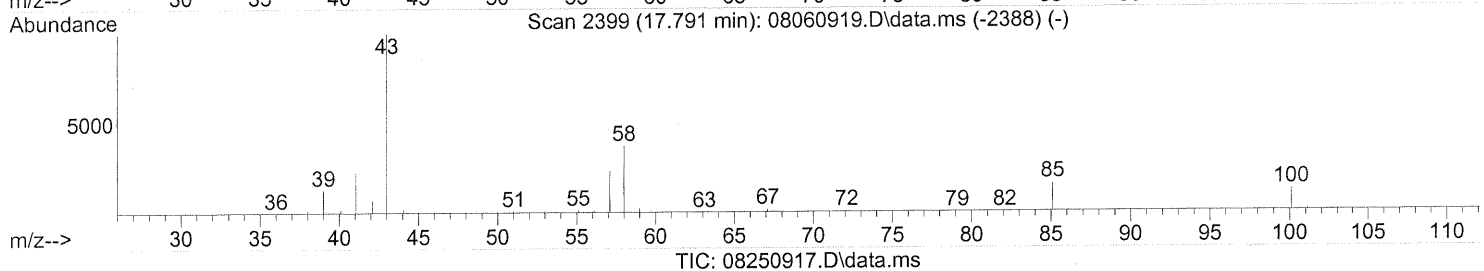
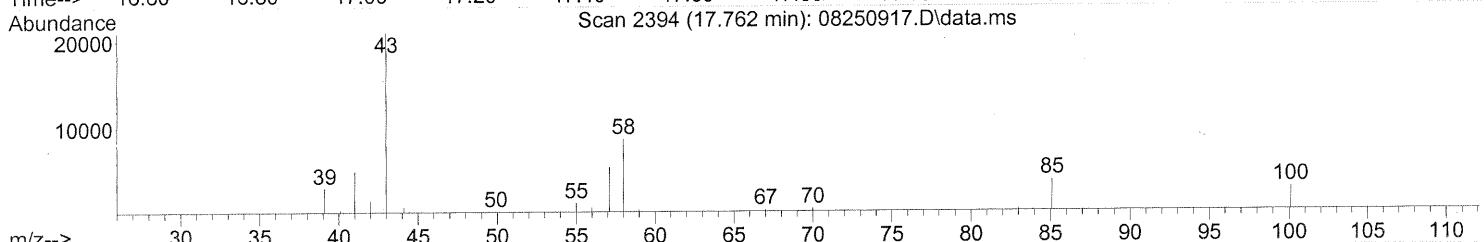
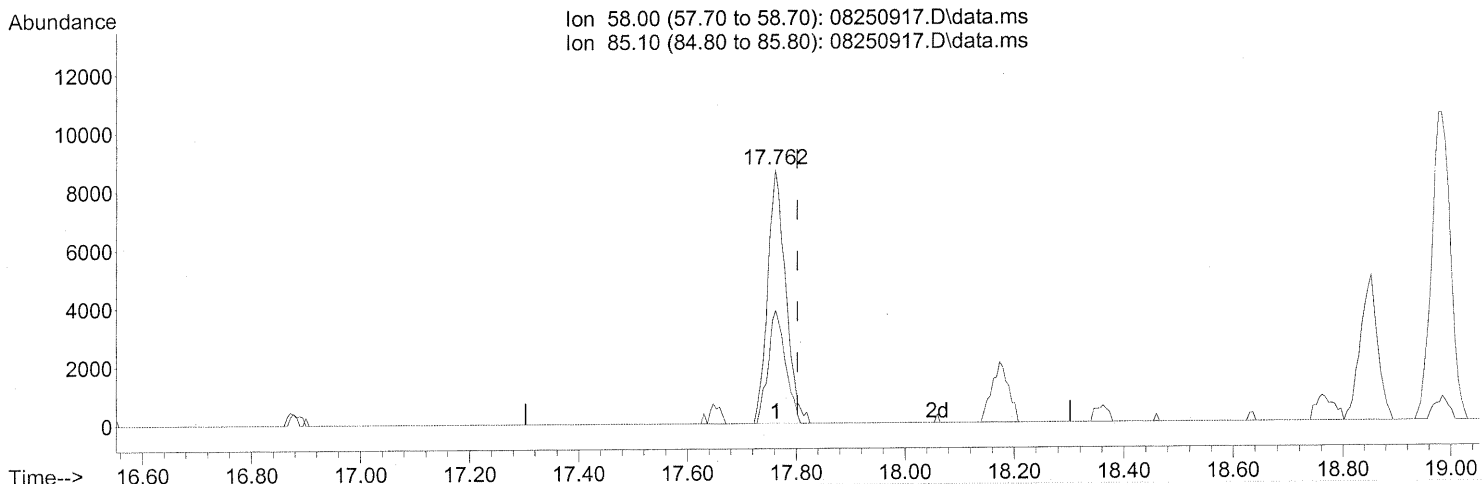
response 109251

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	30.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

17.762min (-0.040) 1.53ng

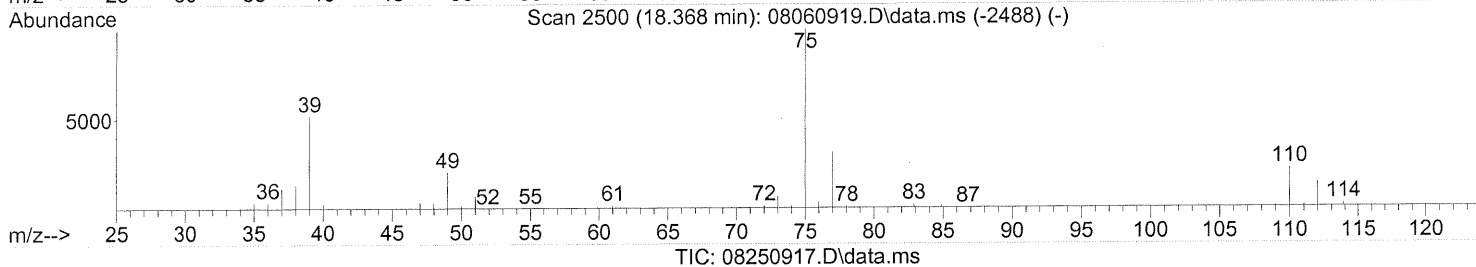
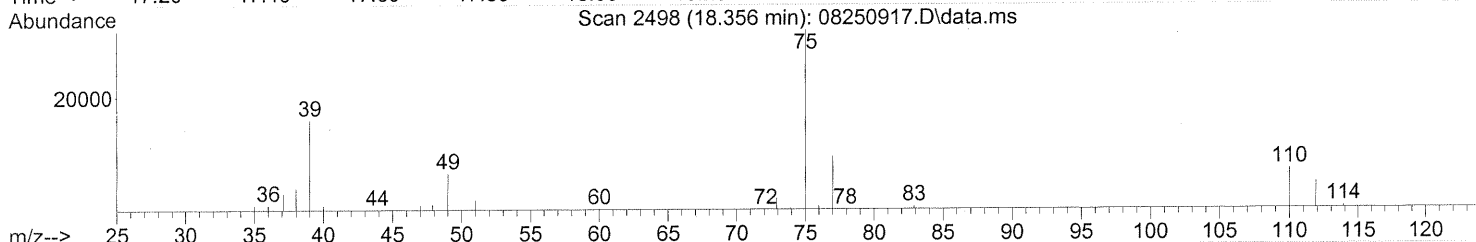
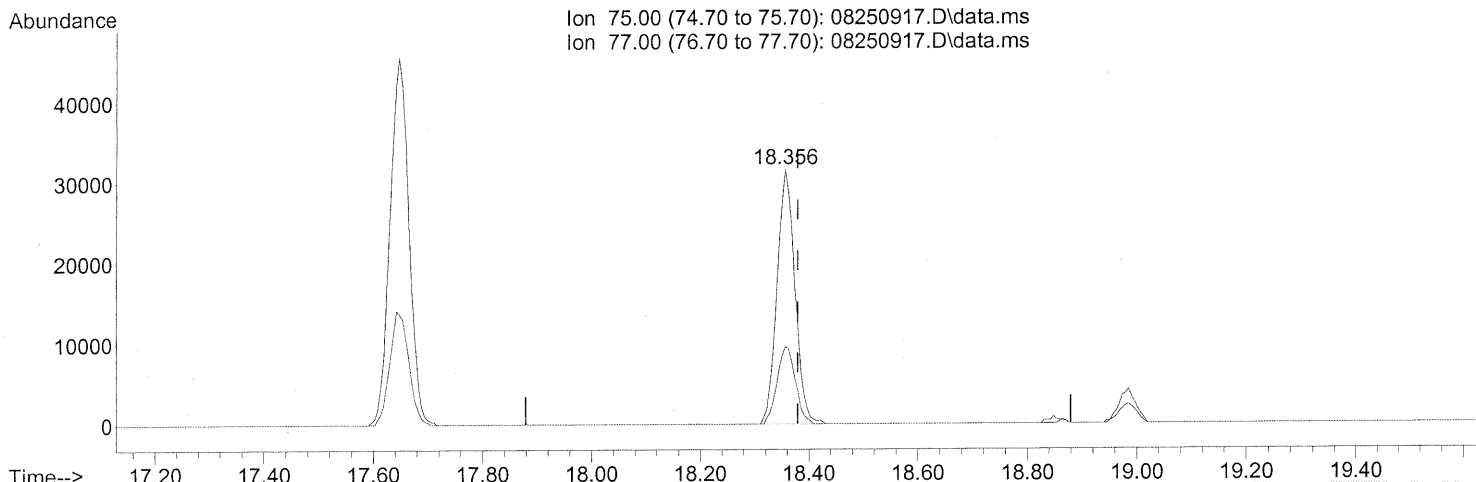
response 20010

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 3.37ng

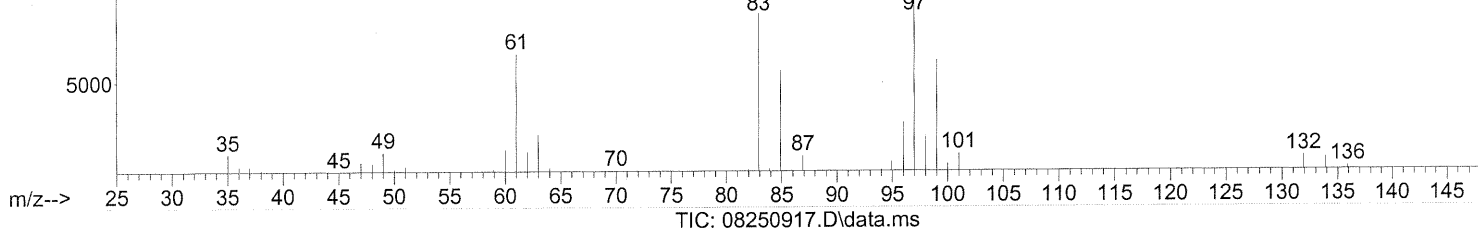
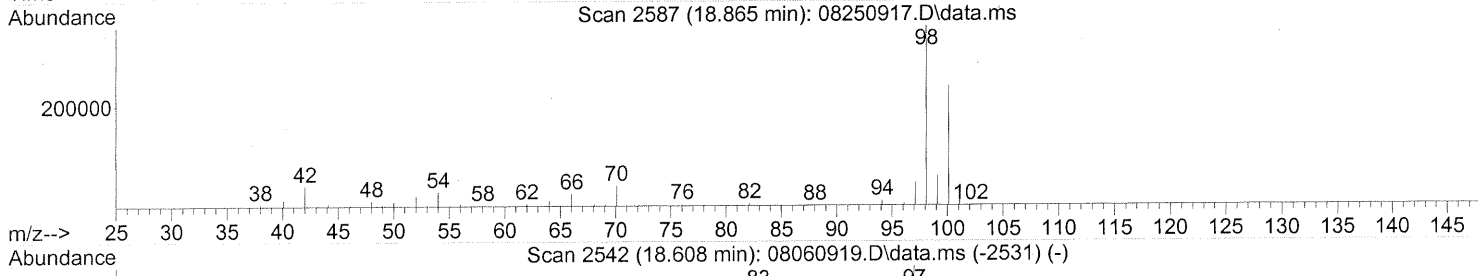
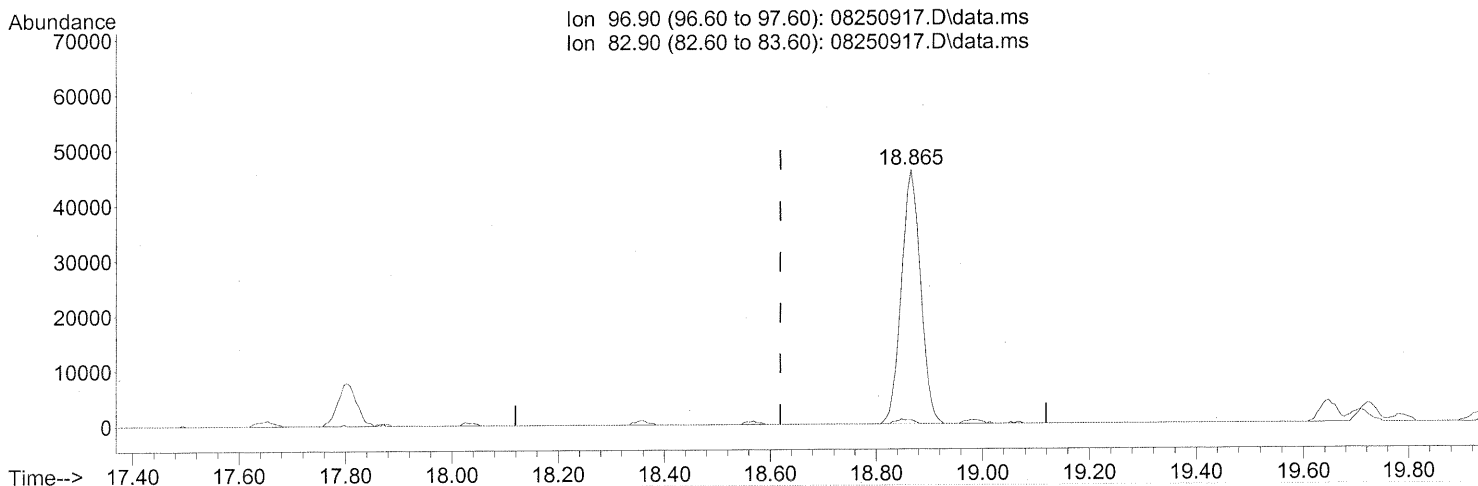
response 72337

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	31.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.865min (+0.246) 9.77ng

response 116414

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.45#
0.00	0.00	0.00
0.00	0.00	0.00

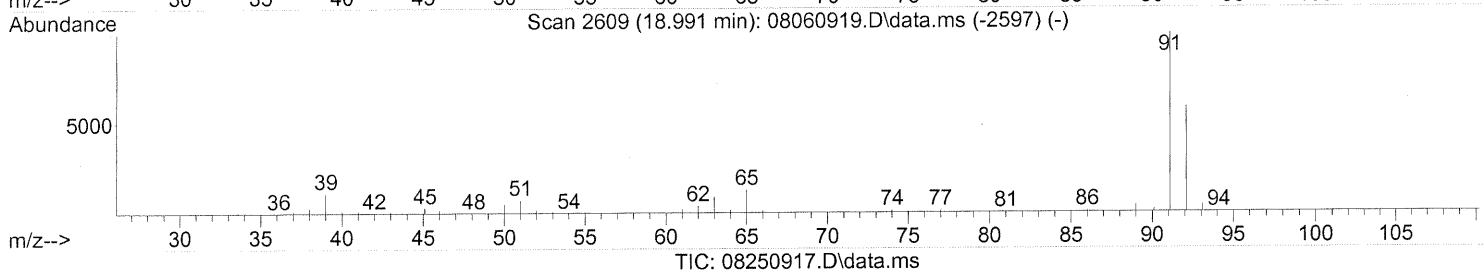
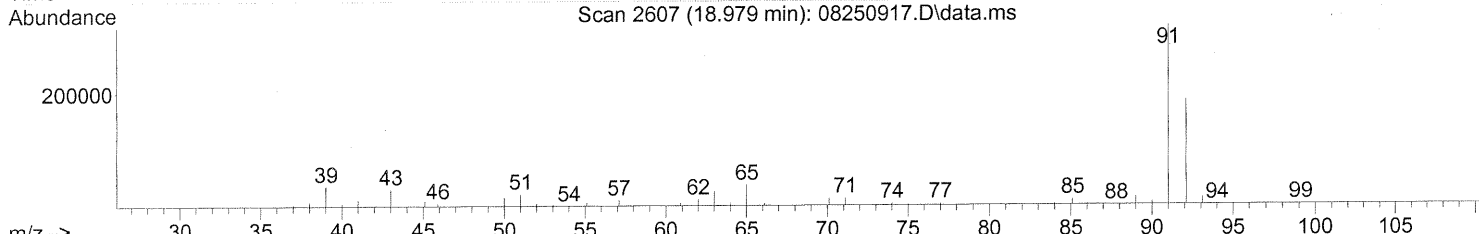
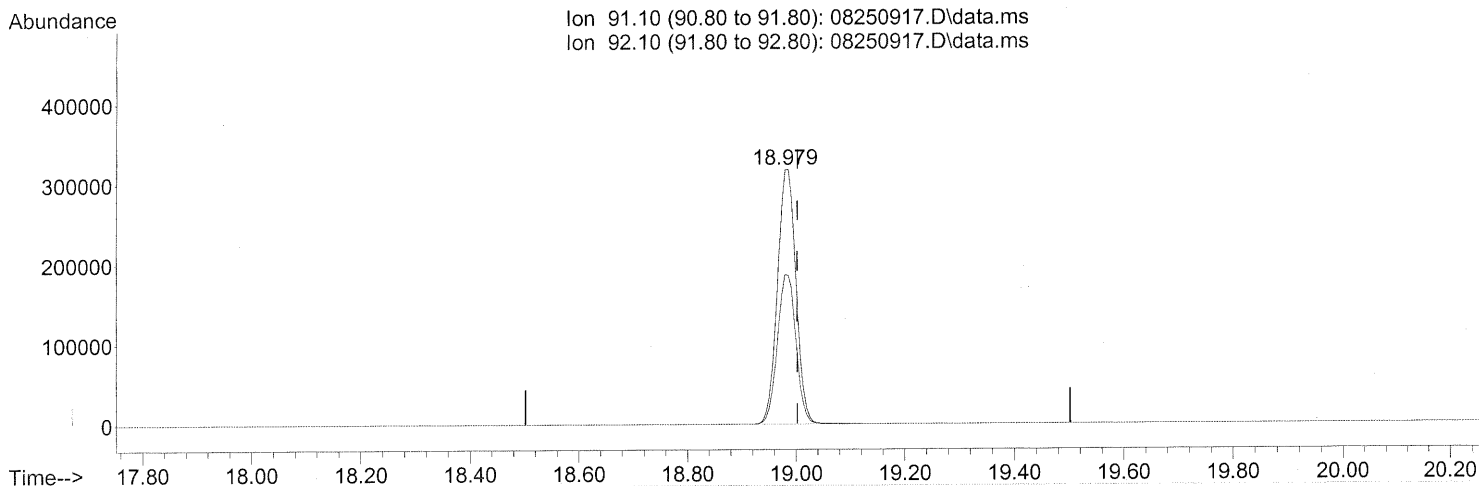
FP
 178/31/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



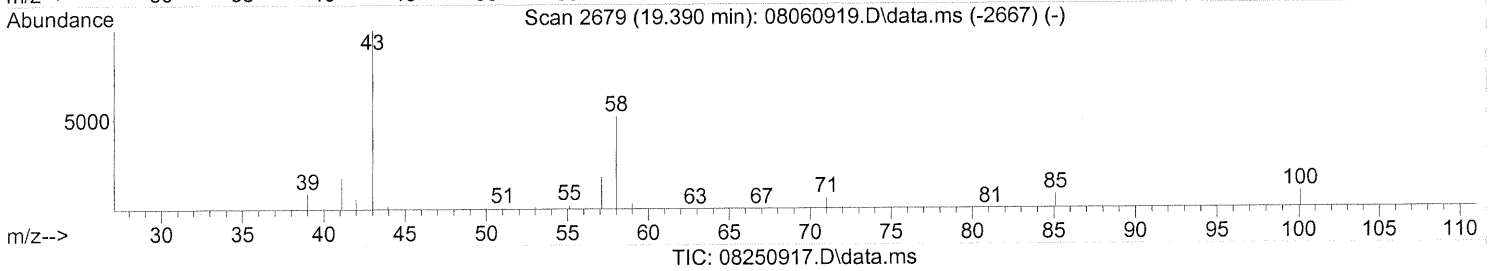
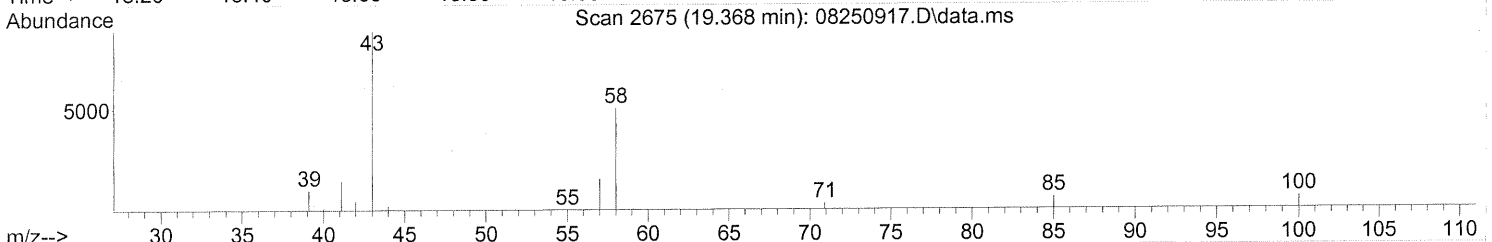
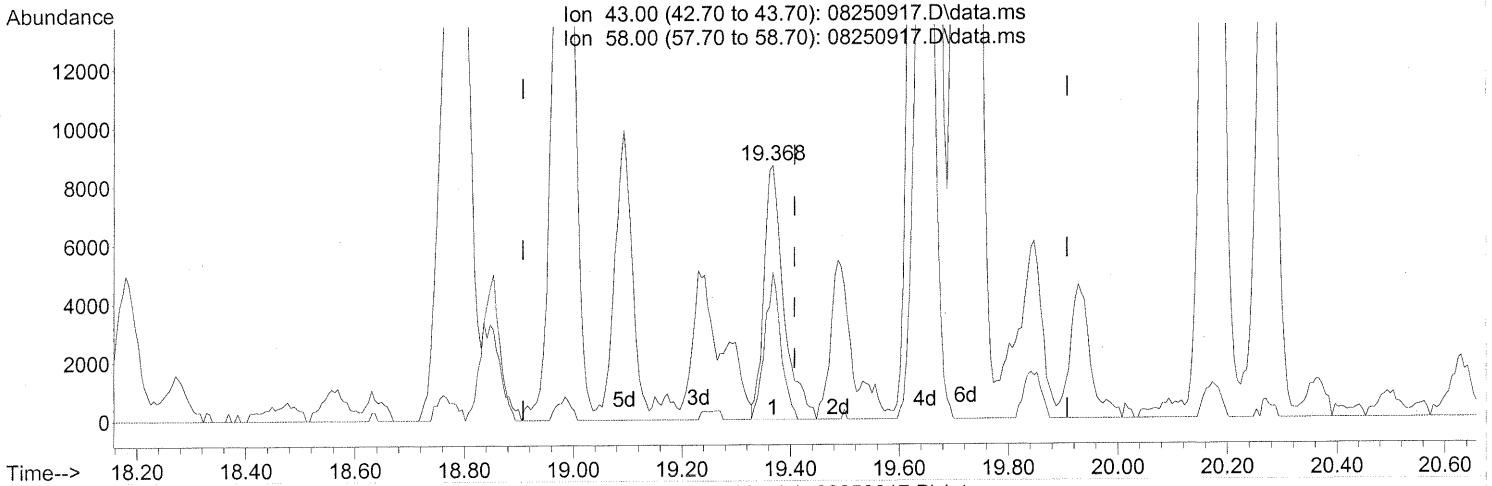
(58) Toluene (T)
 18.979min (-0.023) 14.70ng
 response 747246

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	58.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.368min (-0.040) 0.65ng

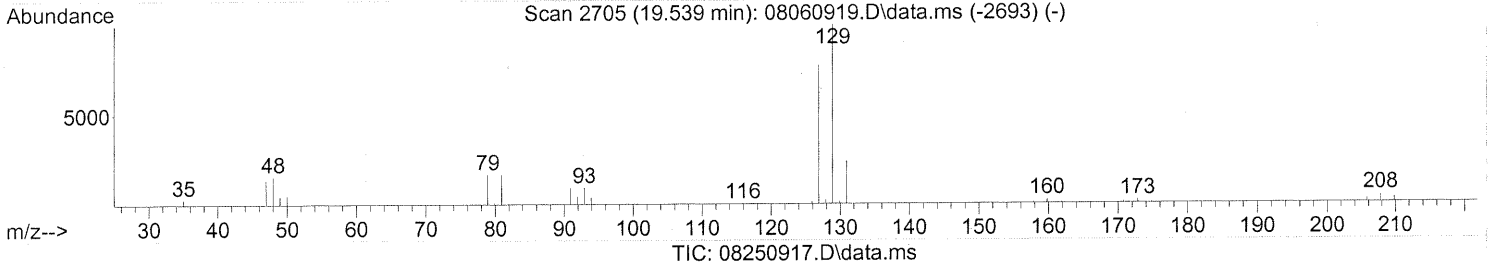
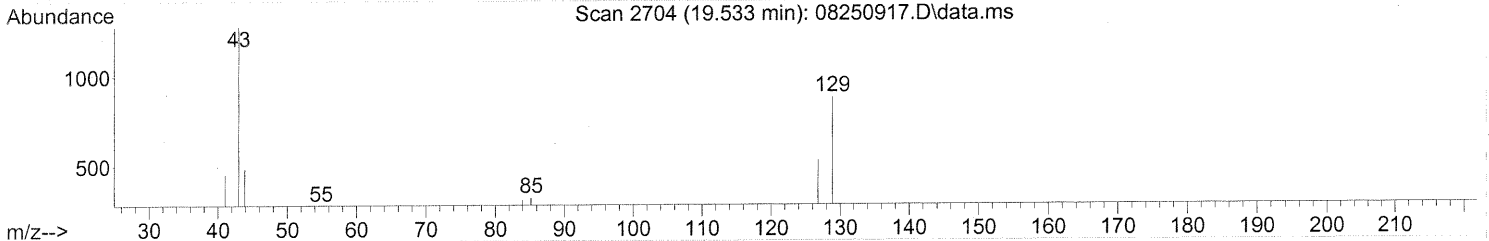
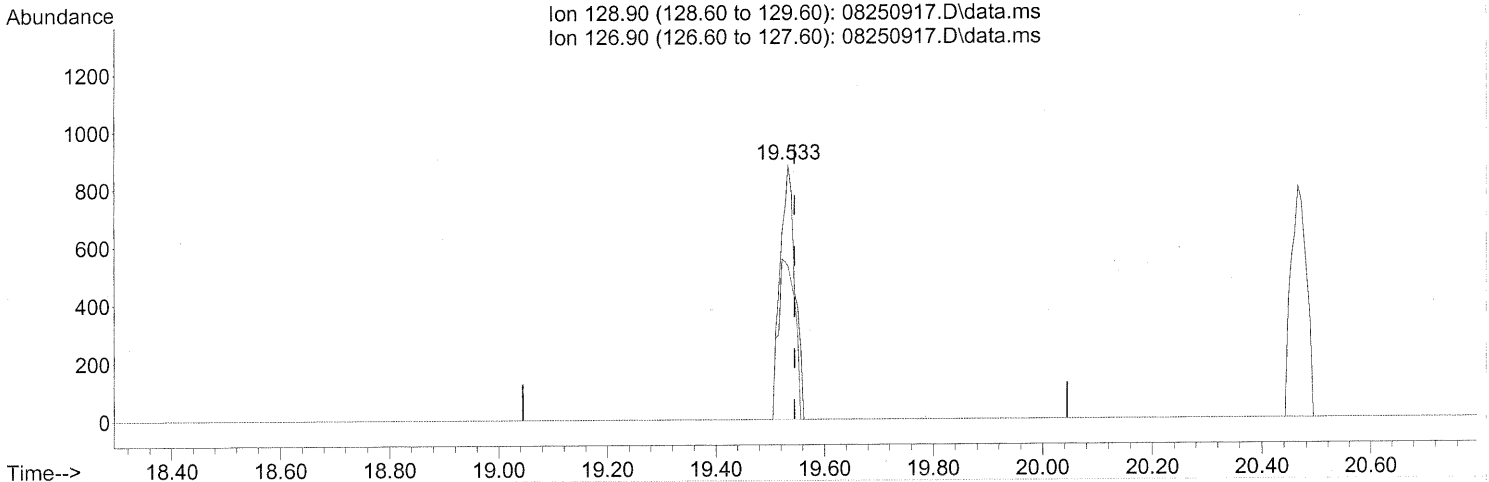
response 22023

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250917.D
Acq On : 25 Aug 2009 10:17 pm
Operator : WA/CC
Sample : P0902876-001 (1000mL)
Misc : Environmental Health 102349
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 0.14ng

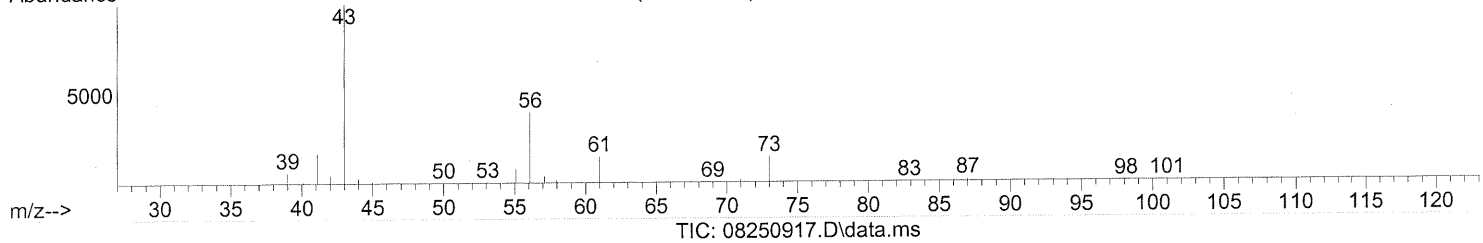
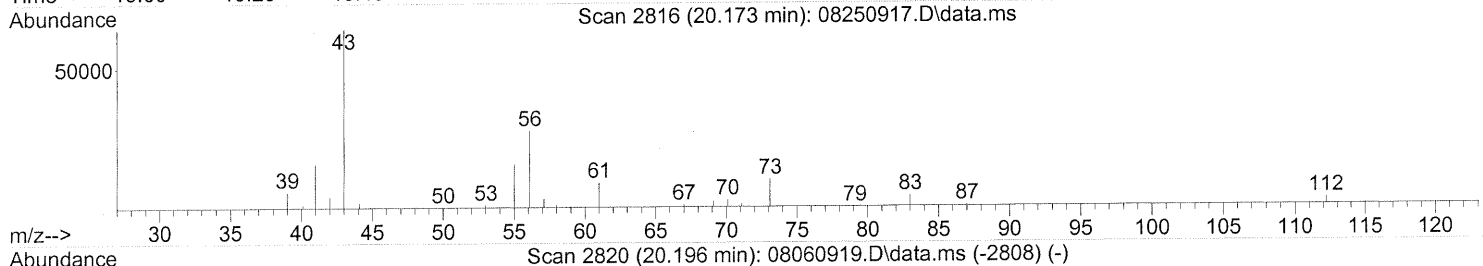
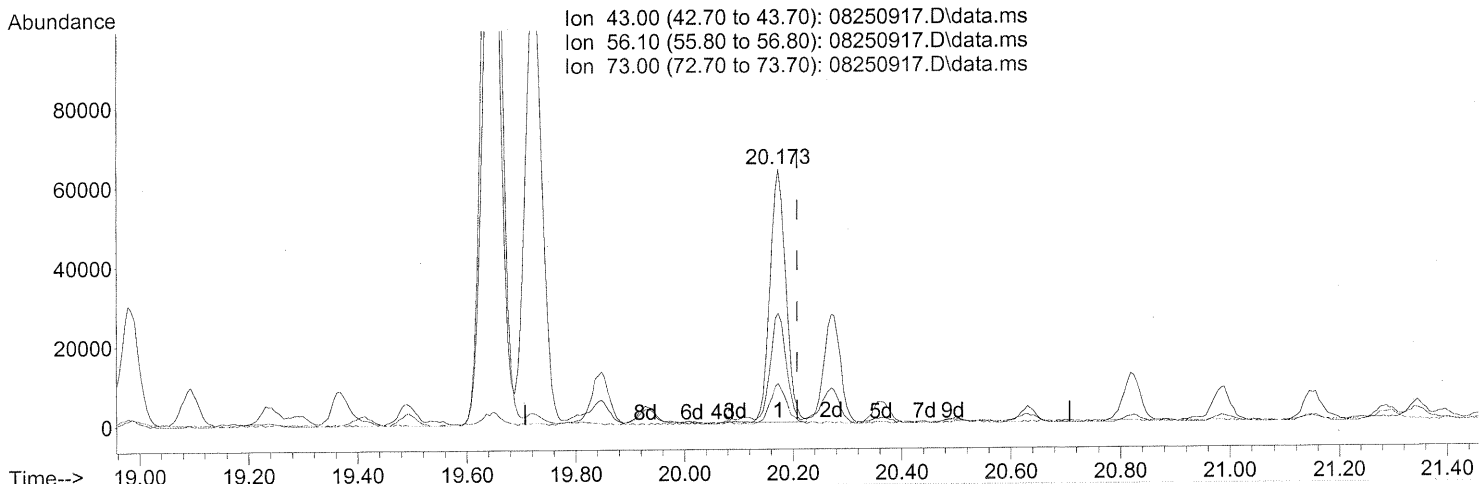
response 1670

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	69.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



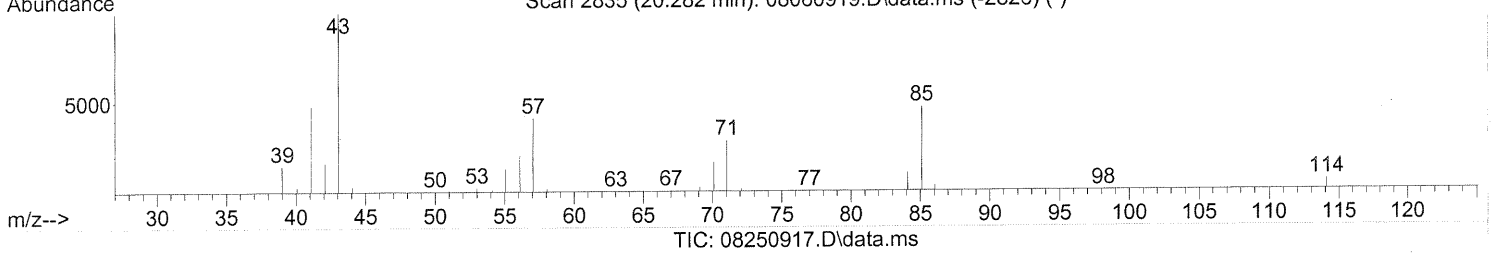
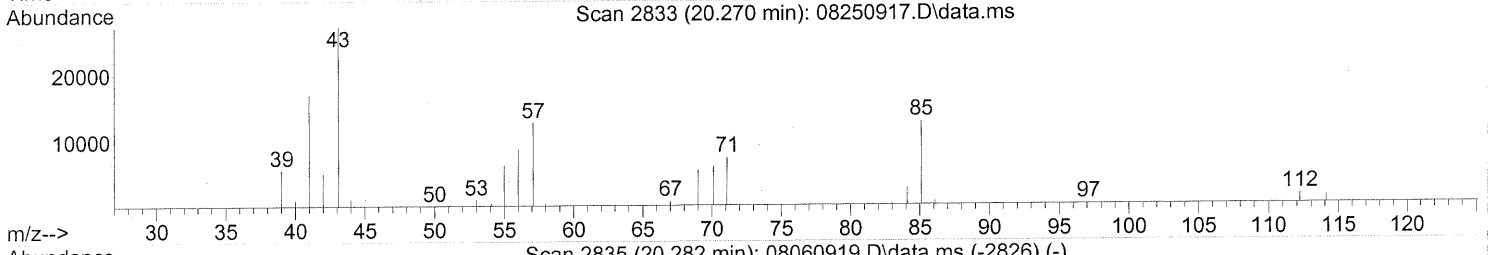
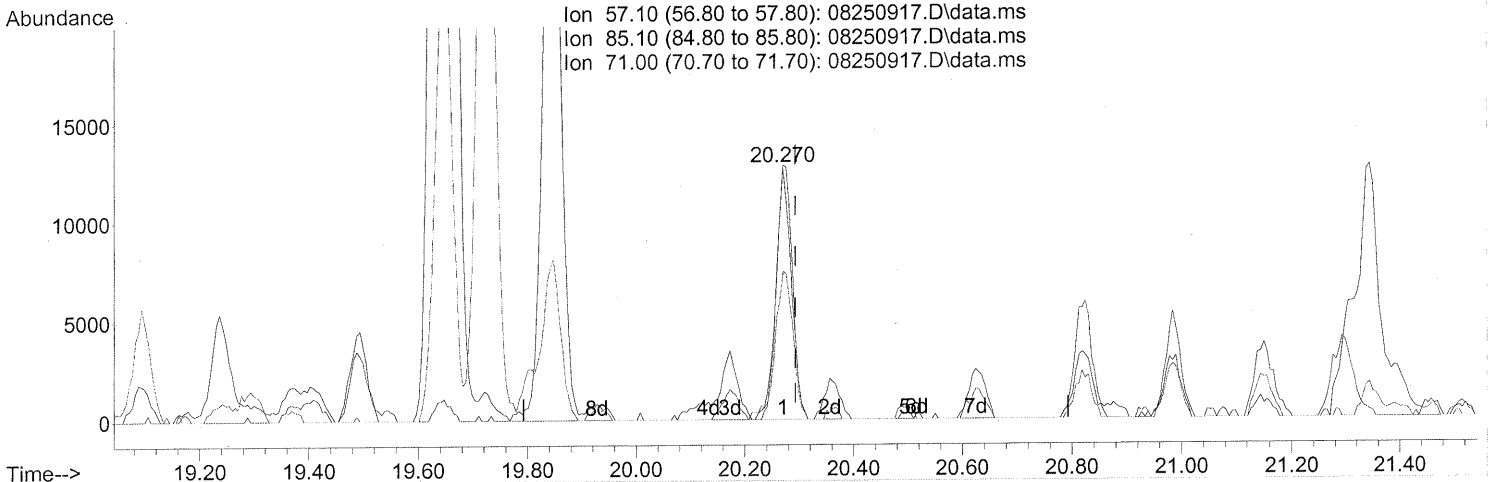
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 3.24ng
 response 129113

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	44.45
73.00	14.80	16.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



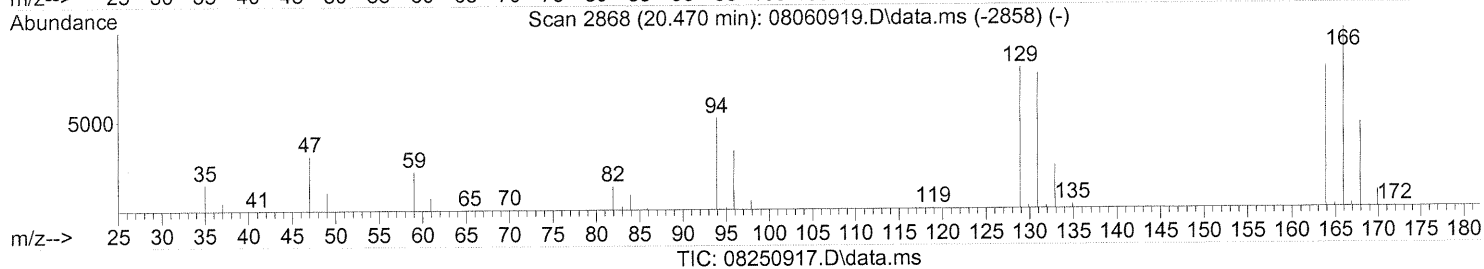
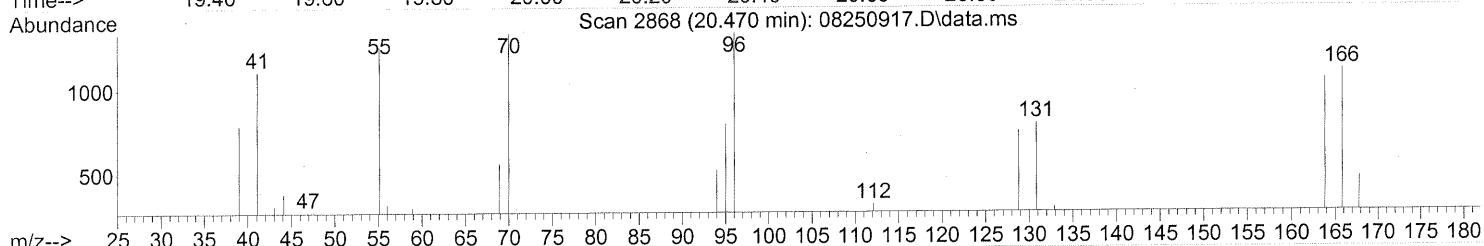
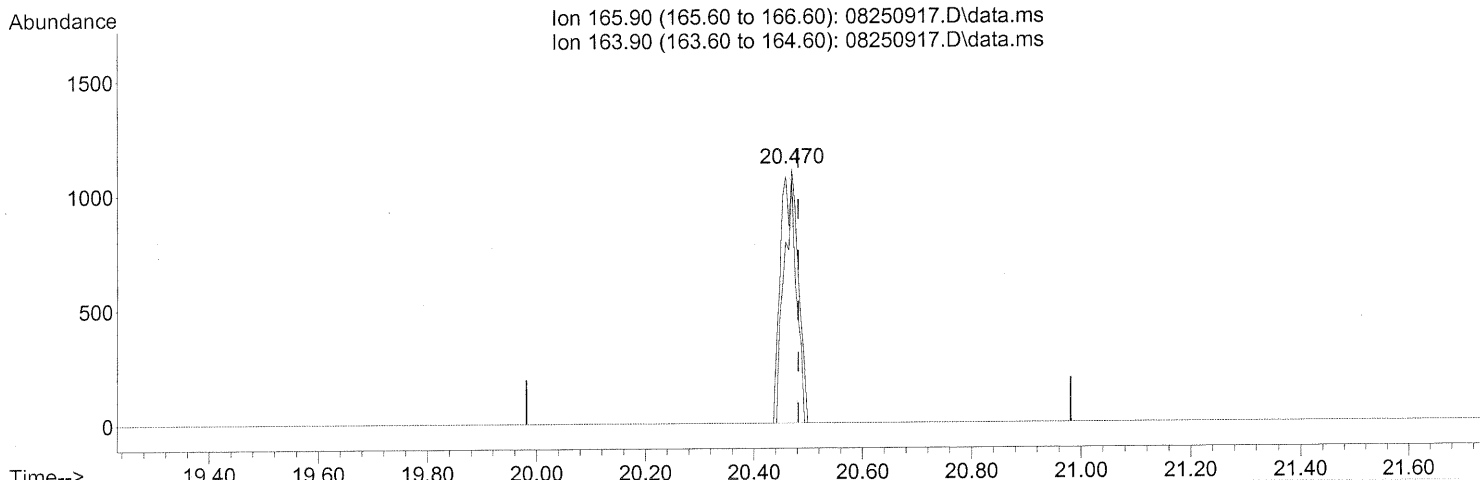
(63) n-Octane (T)
 20.270min (-0.023) 2.04ng
 response 25082

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	104.76
71.00	68.10	68.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.21ng

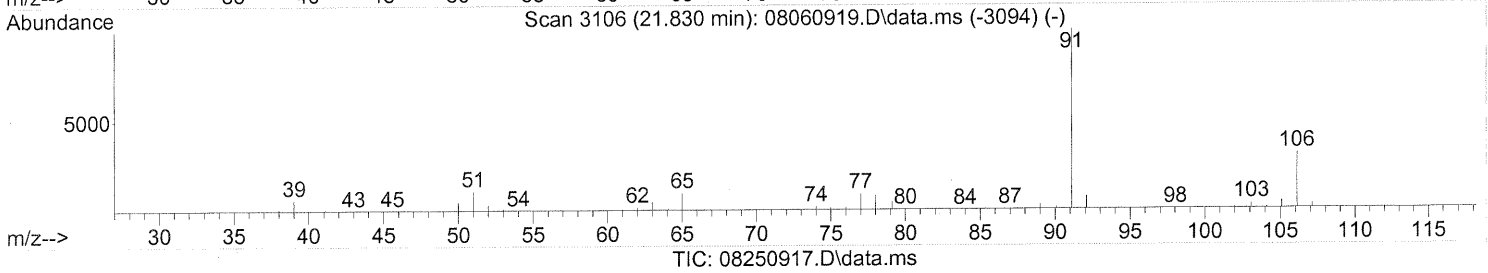
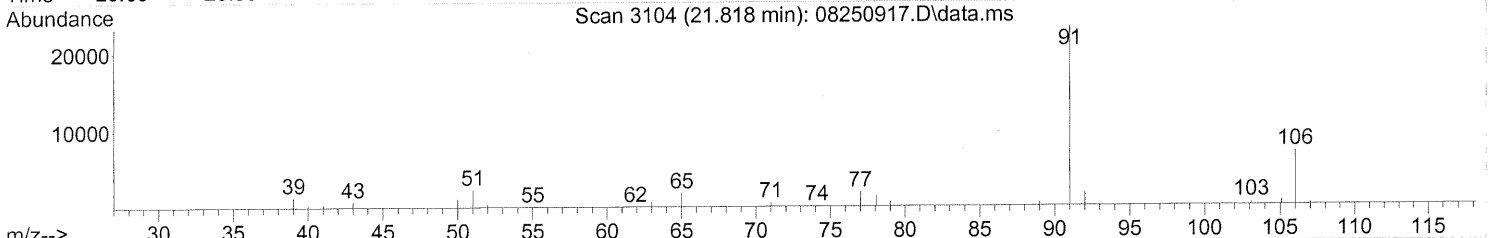
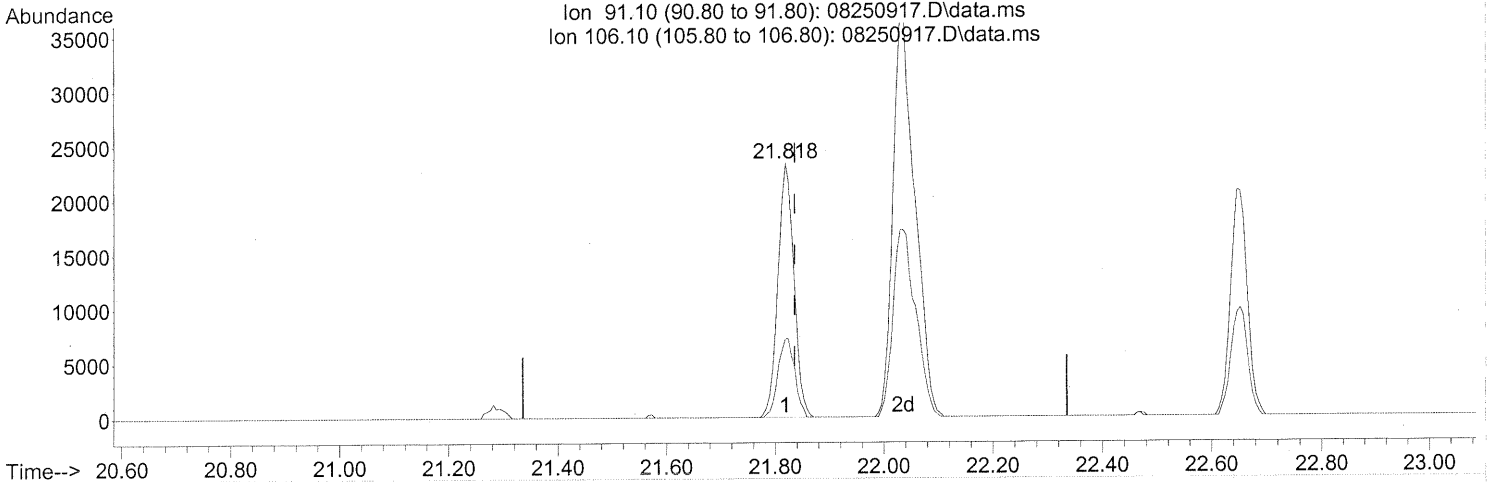
response 2463

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	69.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



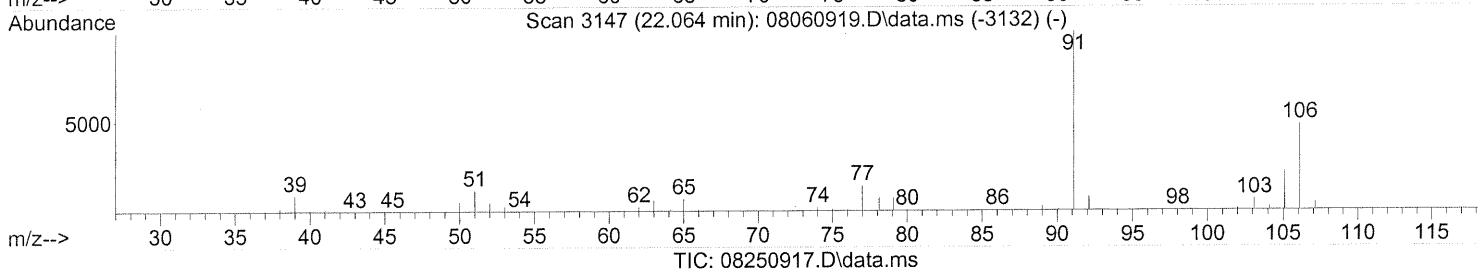
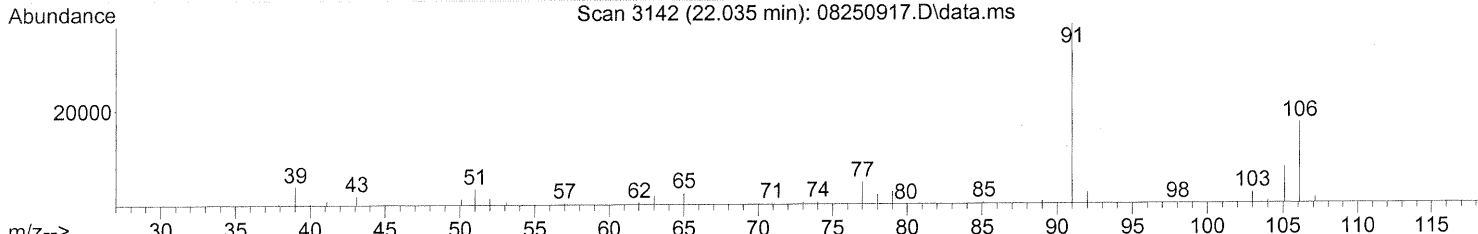
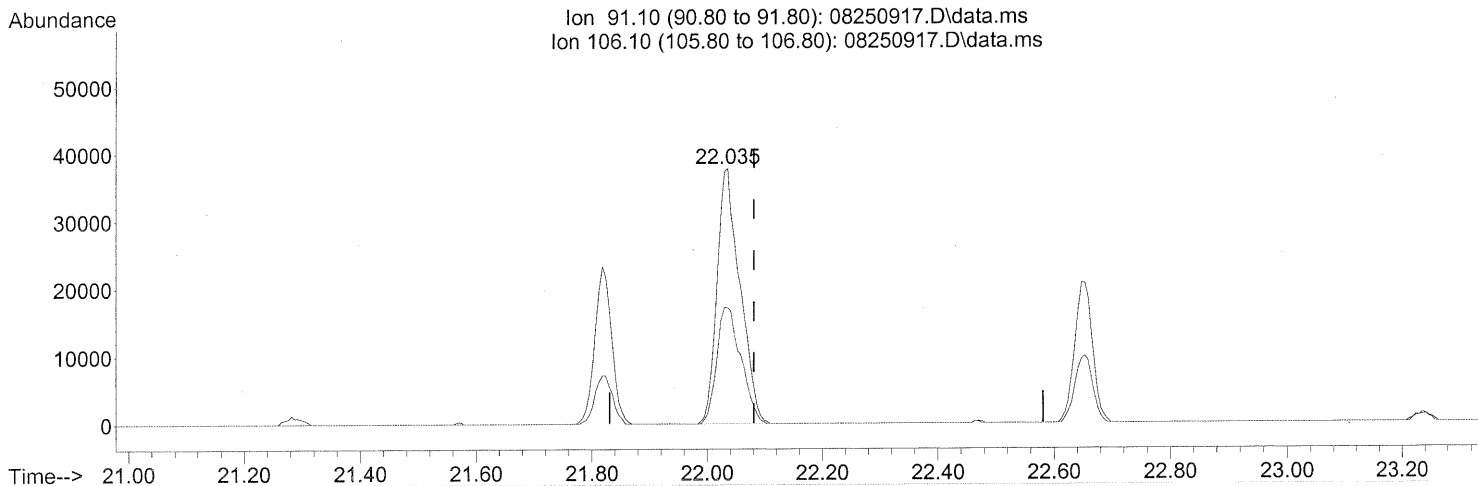
(66) Ethylbenzene (T)
 21.818min (-0.017) 0.81ng
 response 47044

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	32.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

22.035min (-0.046) 2.21ng

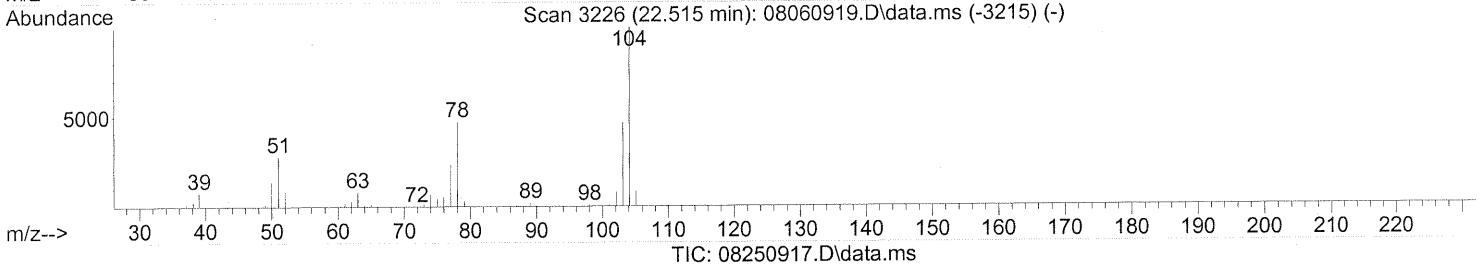
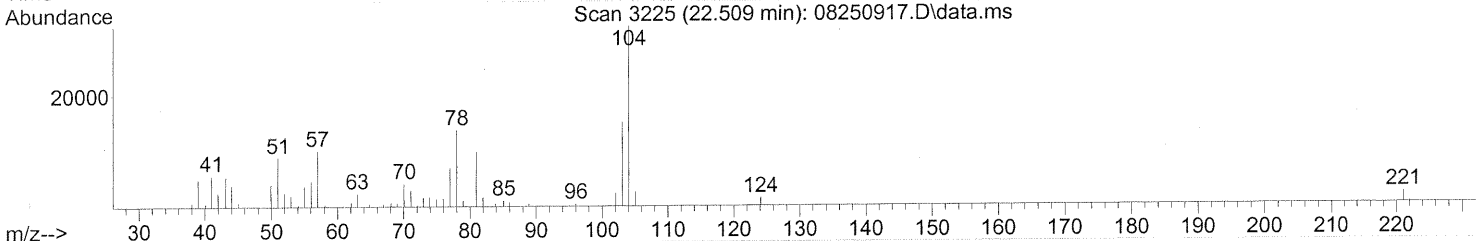
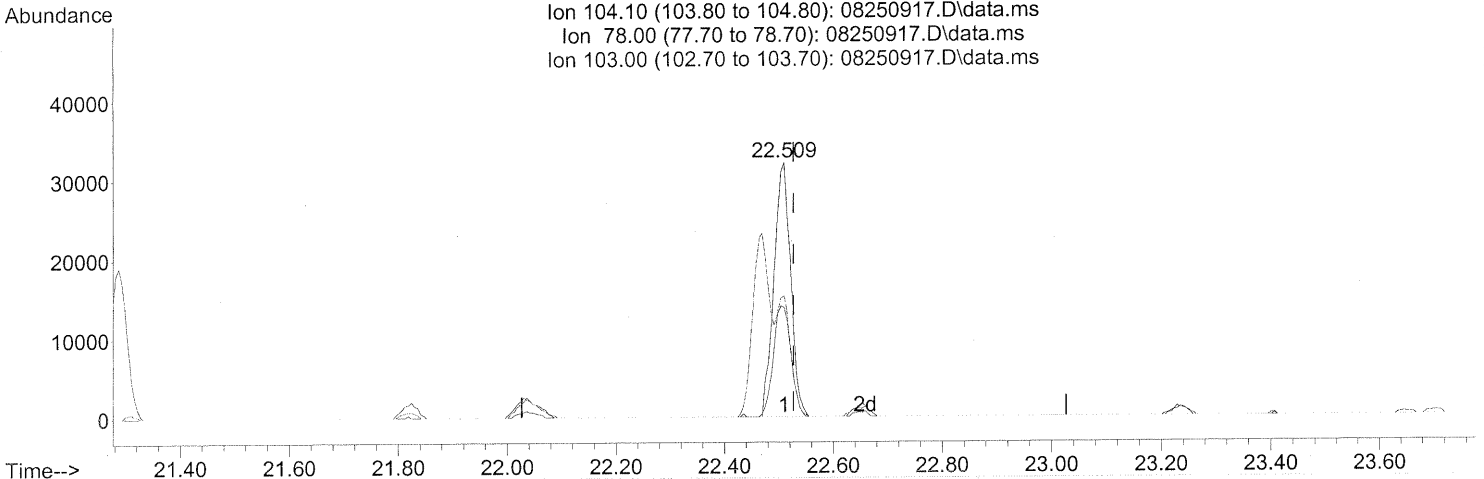
response 104051

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



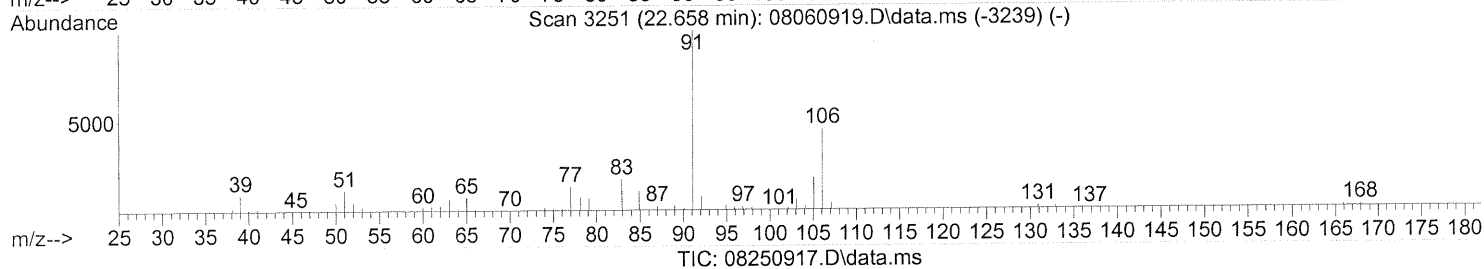
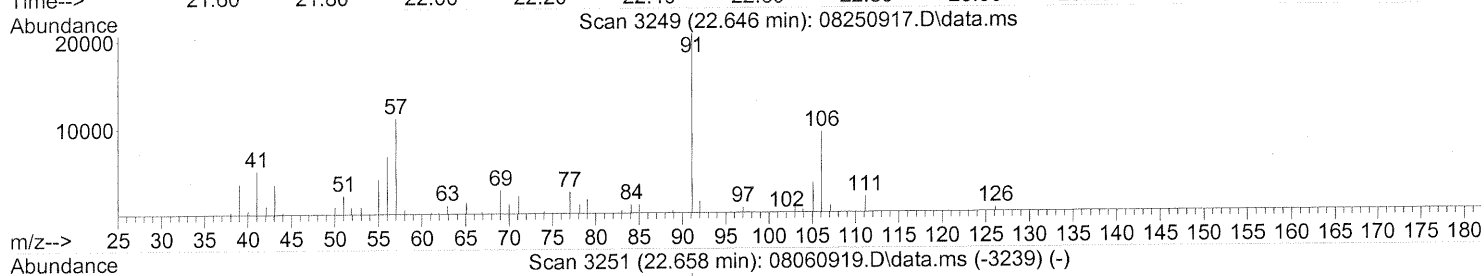
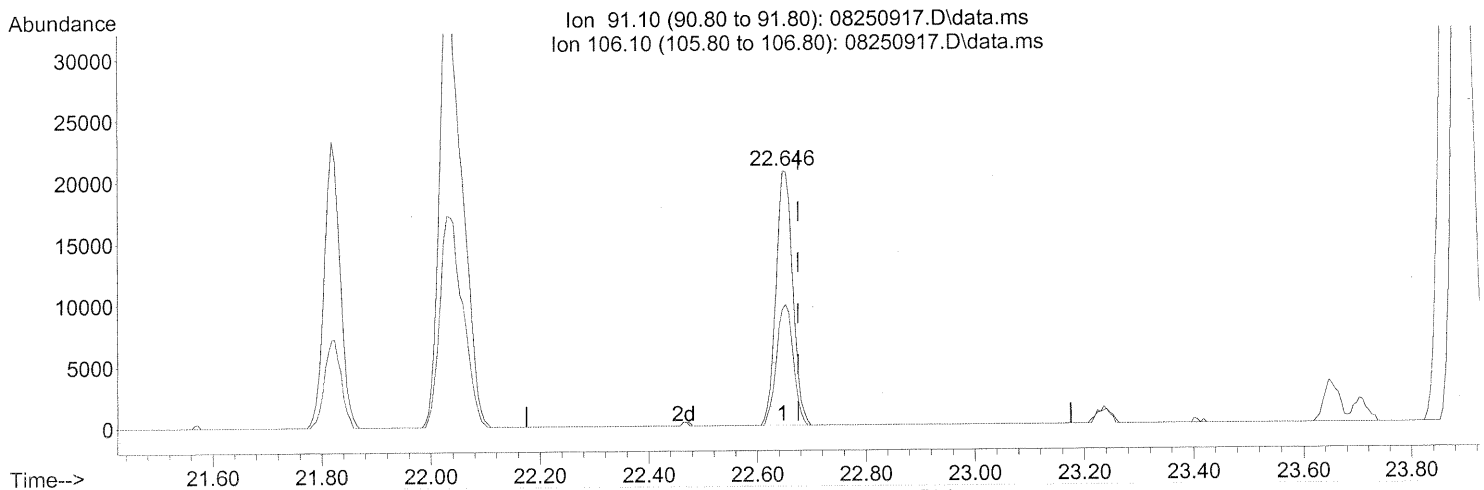
(69) Styrene (T)
 22.509min (-0.017) 1.99ng
 response 67700

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	46.00
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.646min (-0.028) 0.94ng

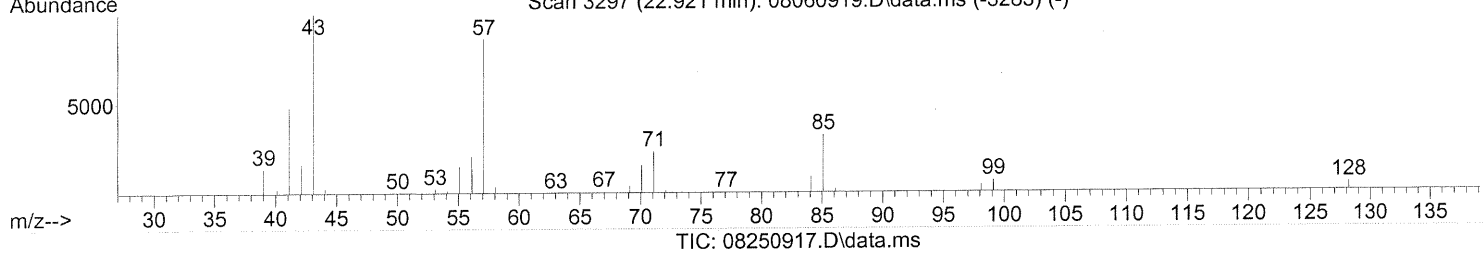
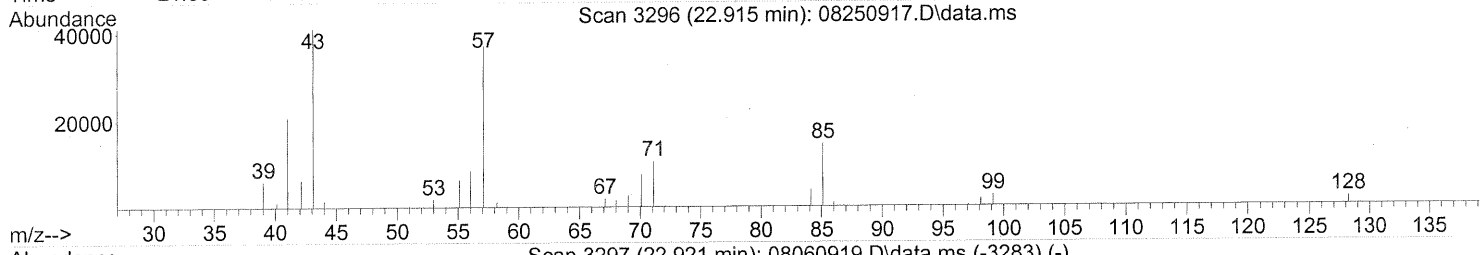
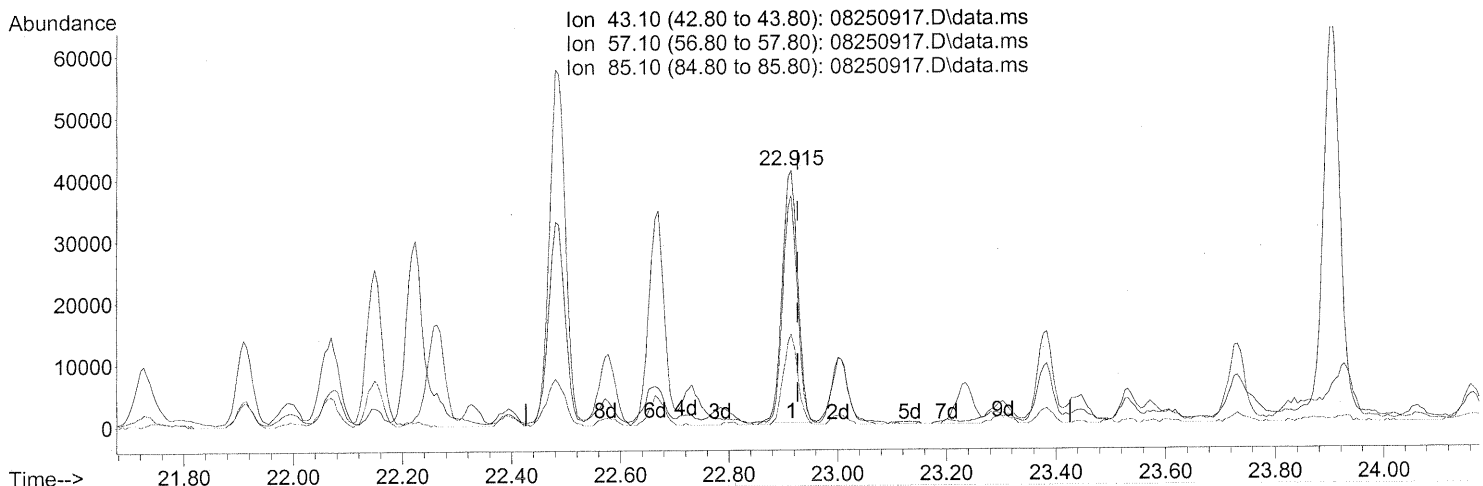
response 44298

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	47.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



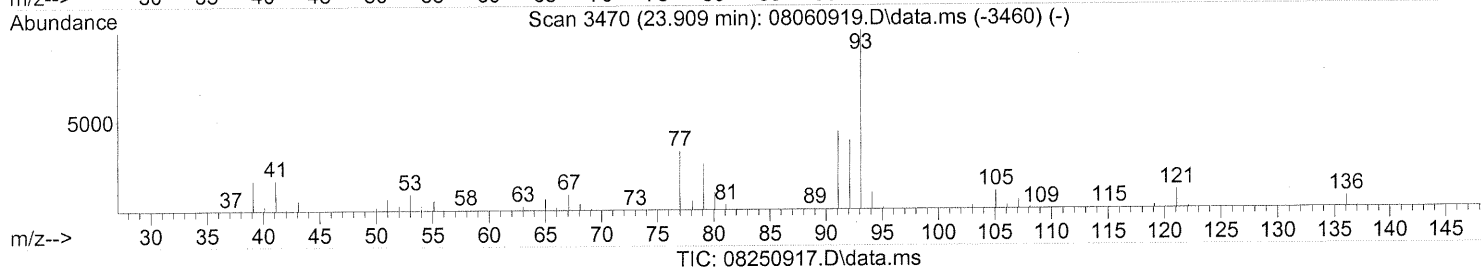
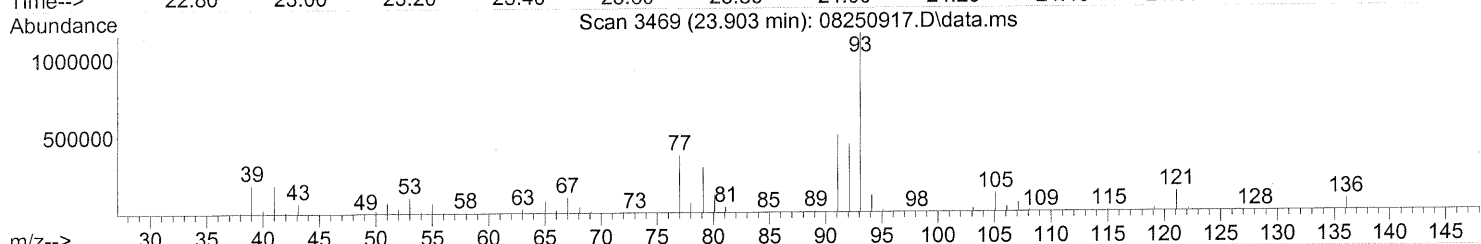
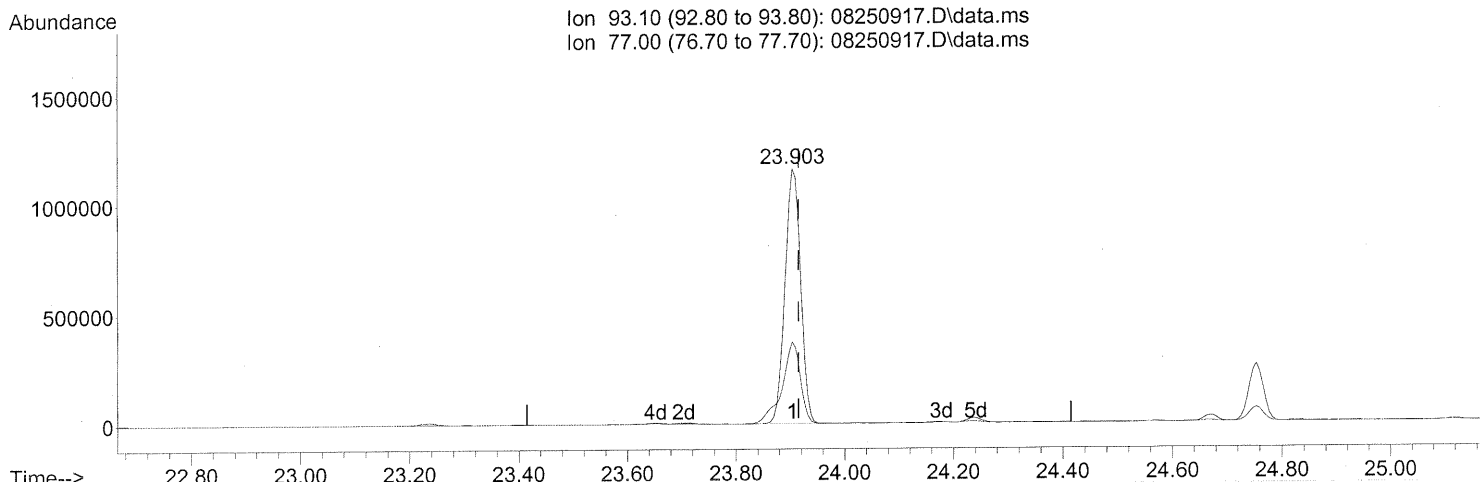
(71) n-Nonane (T)
 22.915min (-0.011) 2.60ng
 response 81376

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	86.67
85.10	30.40	32.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



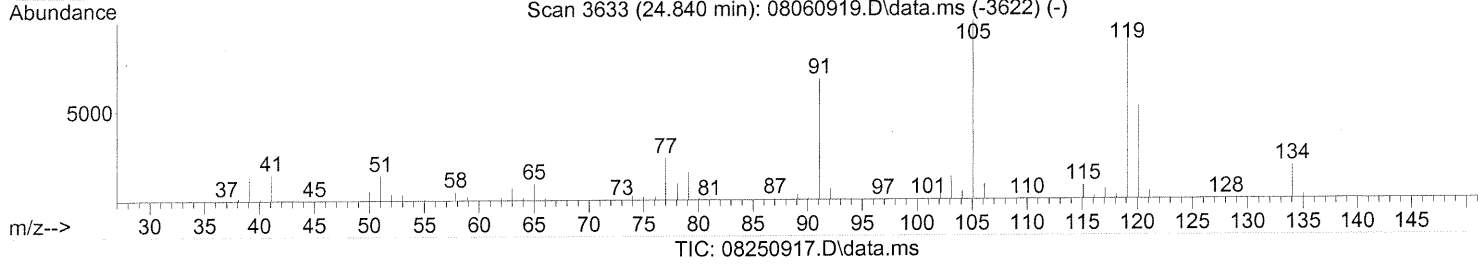
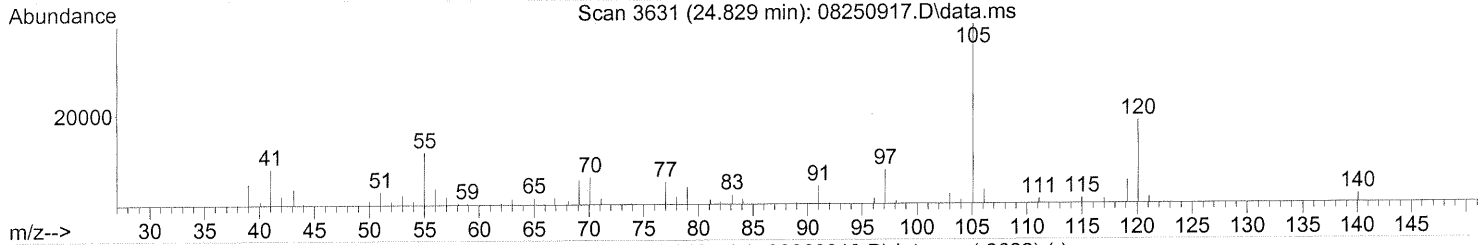
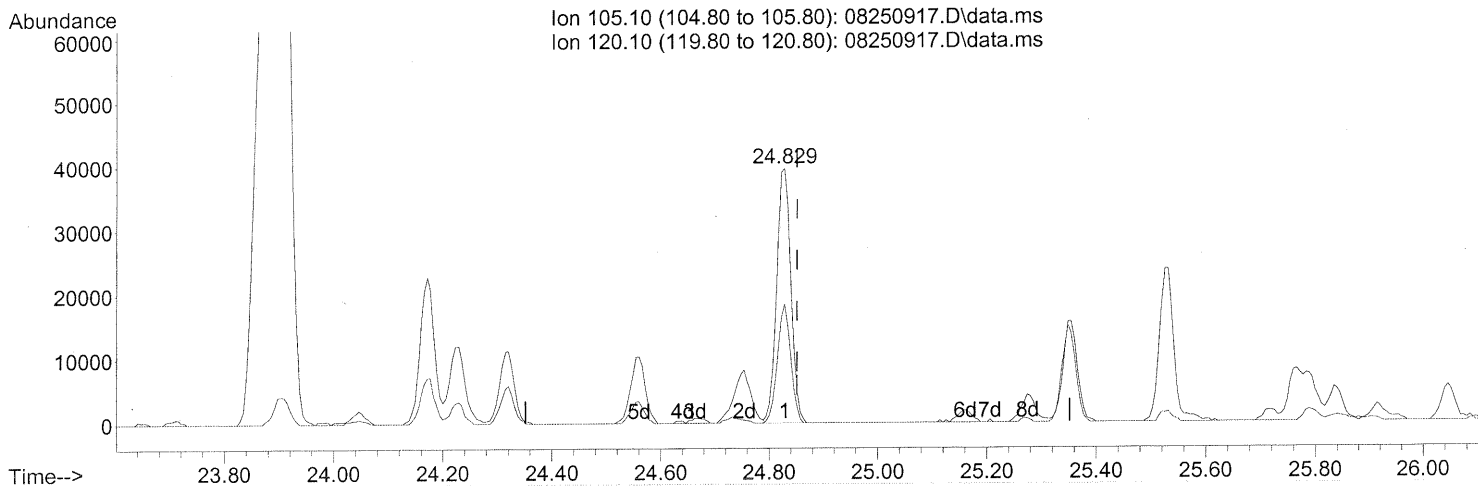
(75) alpha-Pinene (T)
 23.903min (-0.011) 75.21ng
 response 2295807

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	37.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250917.D
 Acq On : 25 Aug 2009 10:17 pm
 Operator : WA/CC
 Sample : P0902876-001 (1000mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.829min (-0.023) 1.51ng

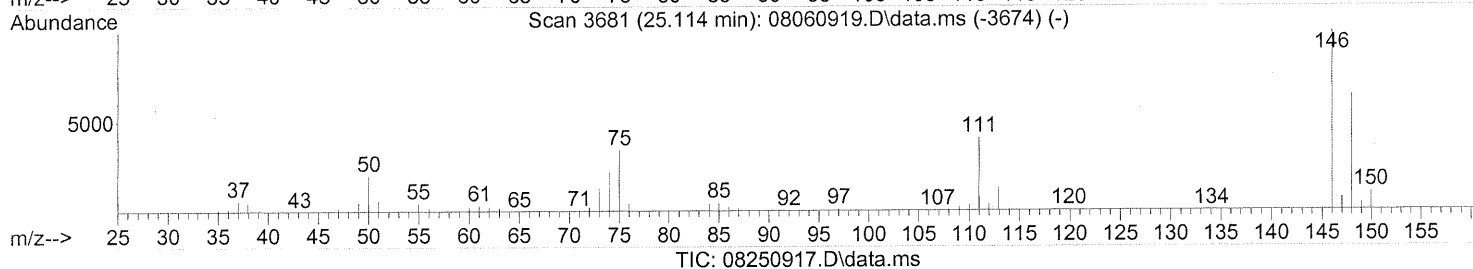
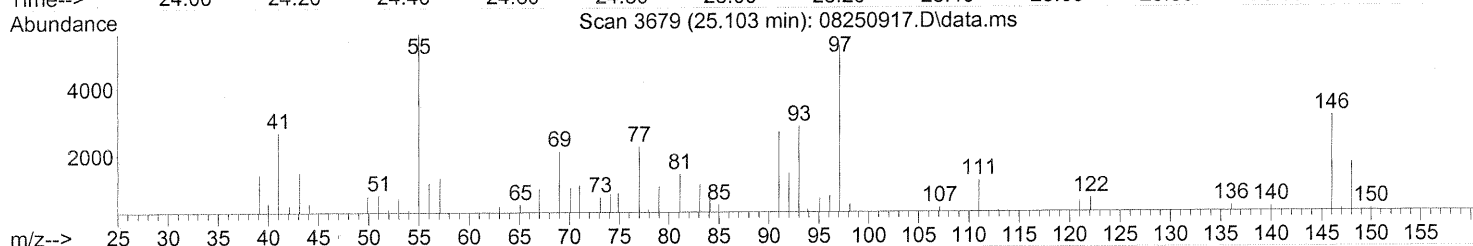
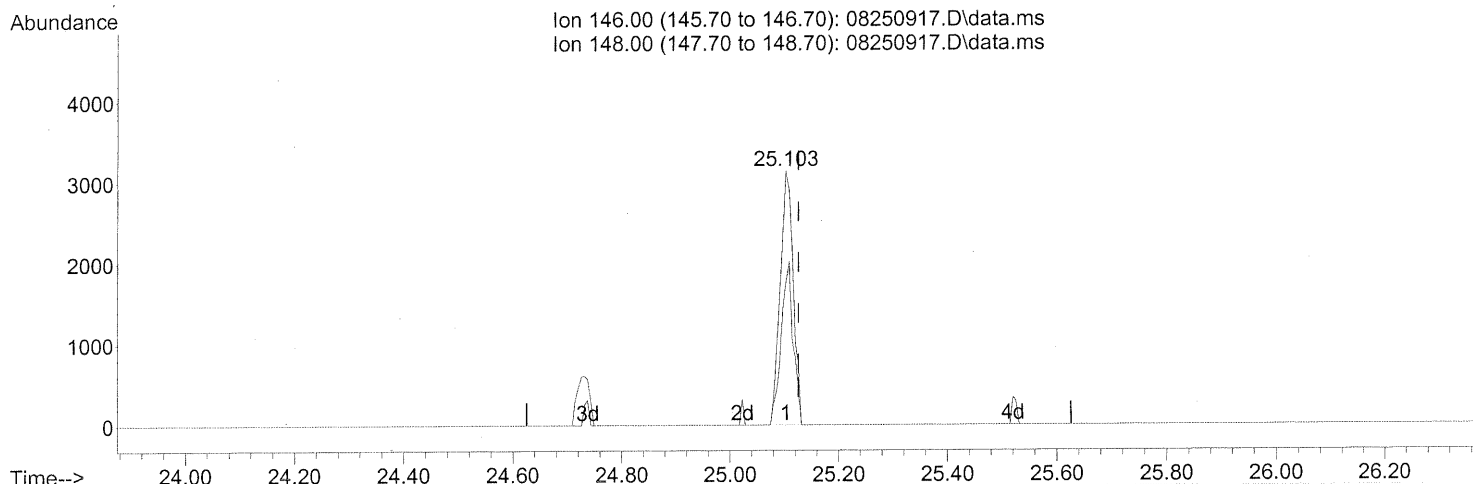
response 71754

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	43.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250917.D
Acq On : 25 Aug 2009 10:17 pm
Operator : WA/CC
Sample : P0902876-001 (1000mL)
Misc : Environmental Health 102349
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 31 16:22:23 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.20ng

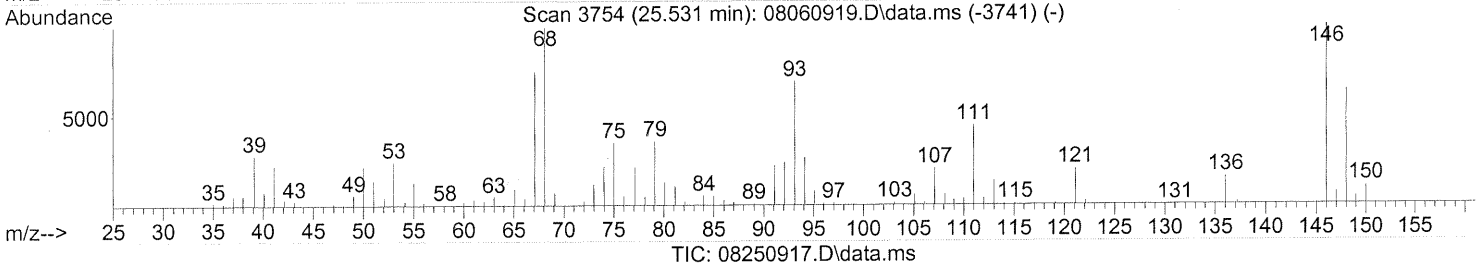
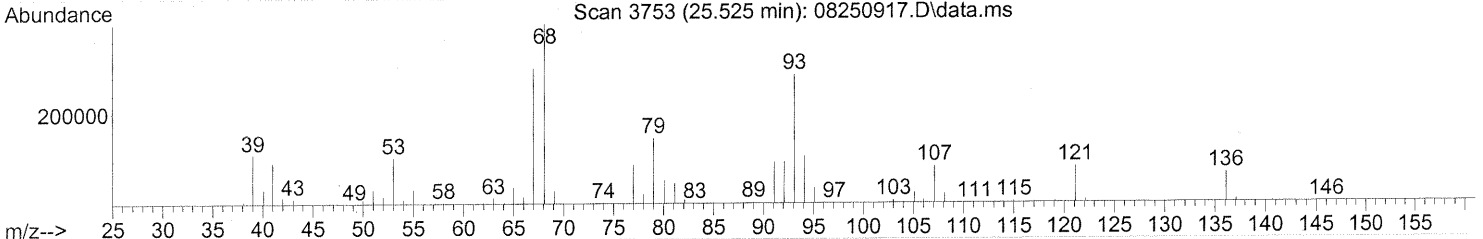
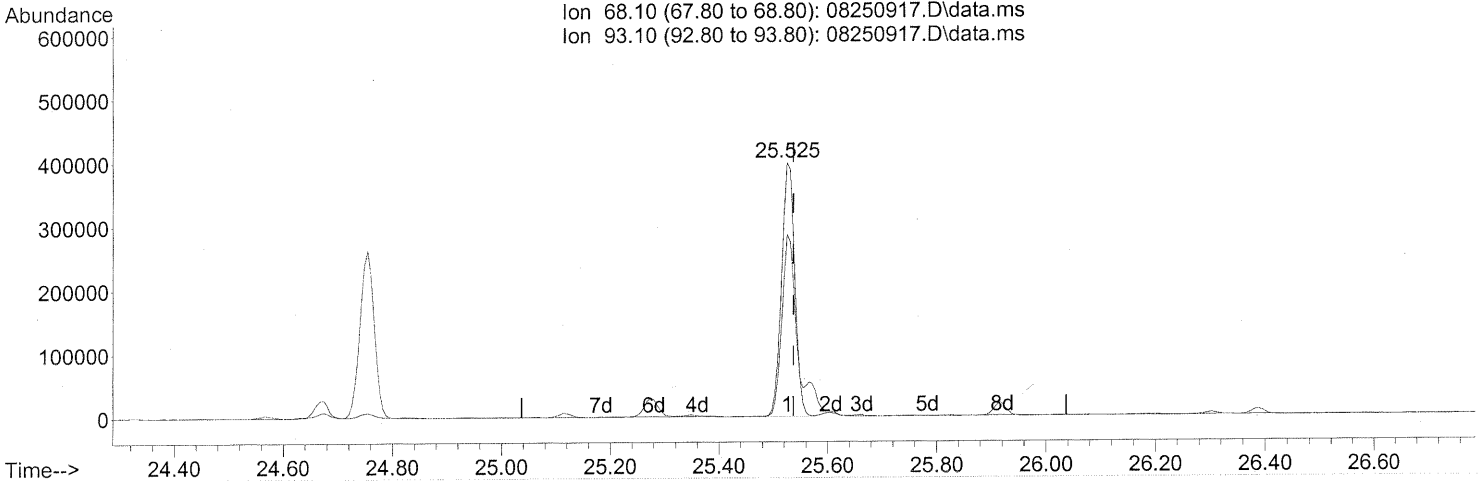
response 5202

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	58.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250917.D
Acq On : 25 Aug 2009 10:17 pm
Operator : WA/CC
Sample : P0902876-001 (1000mL)
Misc : Environmental Health 102349
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 26 06:39:32 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration

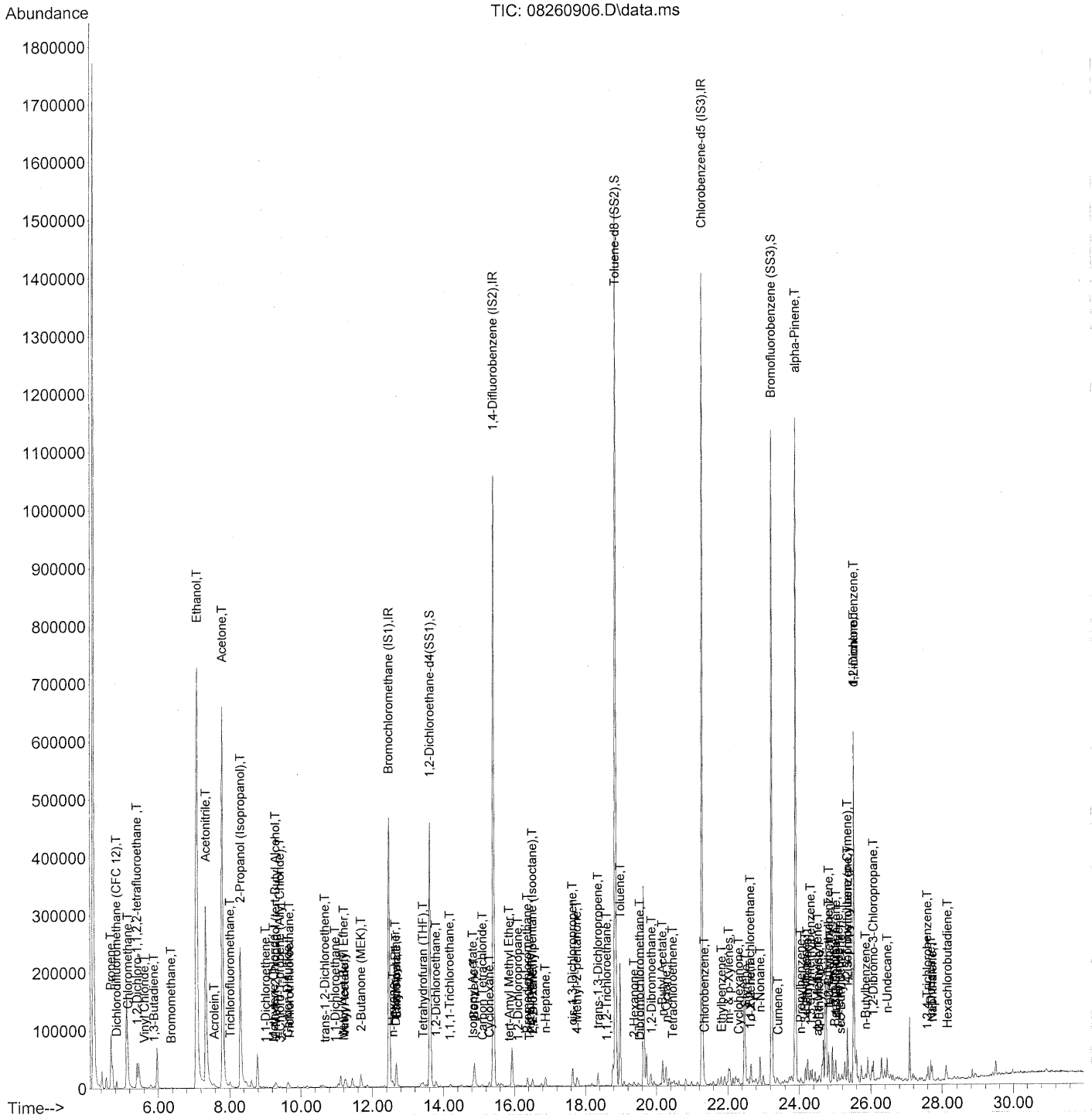


(91) d-Limonene (T)
25.525min (-0.011) 33.45ng
response 674672

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	86.69
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260906.D
 Acq On : 26 Aug 2009 1:43 pm
 Operator : WA/CC
 Sample : P0902876-001 dil (200mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 06:21:31 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260906.D
 Acq On : 26 Aug 2009 1:43 pm
 Operator : WA/CC
 Sample : P0902876-001 dil (200mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 06:21:31 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

W 9/2/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	240798	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1214646	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	581524	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	468633	22.391	ng	-0.04
Spiked Amount	25.000		Recovery	=	89.56%	
57) Toluene-d8 (SS2)	18.85	98	1320016	25.978	ng	-0.02
Spiked Amount	25.000		Recovery	=	103.92%	
73) Bromofluorobenzene (SS3)	23.23	174	371418	27.718	ng	-0.01
Spiked Amount	25.000		Recovery	=	110.88%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	43022	2.604	ng	89
3) Dichlorodifluoromethan...	4.84	85	13987	0.518	ng	99
4) Chloromethane	5.16	50	6515	0.359	ng	95
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1411	0.129	ng	81
6) Vinyl Chloride	5.61	62	1010	0.058	ng	# 44
7) 1,3-Butadiene	5.88	54	1367	0.109	ng	# 76
8) Bromomethane	6.37	94	920	0.087	ng	# 72
9) Chloroethane	6.70	64	241	N.D.		
10) Ethanol	7.10	45	1622257	154.882	ng	100
11) Acetonitrile	7.34	41	559059	18.226	ng	99
12) Acrolein	7.57	56	6733	0.844	ng	95
13) Acetone	7.80	58	361977	36.627	ng	93
14) Trichlorofluoromethane	8.02	101	7292	0.299	ng	99
15) 2-Propanol (Isopropanol)	8.31	45	525544	13.532	ng	100
16) Acrylonitrile	8.57	53	890	N.D.		
17) 1,1-Dichloroethene	9.02	96	836	0.074	ng	# 81
18) 2-Methyl-2-Propanol (t...	9.29	59	12522	0.363	ng	# 25
19) Methylene Chloride	9.25	84	1742	0.131	ng	83
20) 3-Chloro-1-propene (Al...	9.42	41	1292	0.050	ng	# 43
21) Trichlorotrifluoroethane	9.68	151	1652	0.186	ng	87
22) Carbon Disulfide	9.63	76	23735	0.507	ng	95
23) trans-1,2-Dichloroethene	10.68	61	1109	0.055	ng	80
24) 1,1-Dichloroethane	10.96	63	1335	0.055	ng	# 43
25) Methyl tert-Butyl Ether	11.20	73	2633	0.070	ng	62
26) Vinyl Acetate	11.23	86	2454	1.220	ng	# 92
27) 2-Butanone (MEK)	11.68	72	9453	1.059	ng	# 89
28) cis-1,2-Dichloroethene	12.23	61	850	N.D.		
29) Diisopropyl Ether	12.66	87	1403	0.117	ng	# 1
30) Ethyl Acetate	12.67	61	8256	1.776	ng	92
31) n-Hexane	12.58	57	4692	0.197	ng	99

57

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260906.D
 Acq On : 26 Aug 2009 1:43 pm
 Operator : WA/CC
 Sample : P0902876-001 dil (200mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 06:21:31 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	8491	0.406	ng	96
34) Tetrahydrofuran (THF)	13.43	72	2372	0.249	ng #	37
35) Ethyl tert-Butyl Ether	13.45	87	660	N.D.		
36) 1,2-Dichloroethane	13.79	62	8314	0.435	ng	99
38) 1,1,1-Trichloroethane	14.17	97	1433	0.070	ng #	49
39) Isopropyl Acetate	14.83	61	1519	0.169	ng #	1
40) 1-Butanol	15.00	56	87	N.D.		
41) Benzene	14.87	78	12226	0.229	ng	99
42) Carbon Tetrachloride	15.10	117	2842	0.167	ng	99
43) Cyclohexane	15.29	84	4477	0.229	ng	85
44) tert-Amyl Methyl Ether	15.85	73	2326	0.058	ng	75
45) 1,2-Dichloropropane	16.10	63	925	0.069	ng #	59
46) Bromodichloromethane	16.37	83	2177	0.124	ng	92
47) Trichloroethene	16.43	130	664	0.055	ng	92
48) 1,4-Dioxane	16.53	88	601	0.059	ng #	22
49) 2,2,4-Trimethylpentane...	16.51	57	12834	0.204	ng	94
50) Methyl Methacrylate	16.77	100	199	N.D.		
51) n-Heptane	16.87	71	4656	0.325	ng	96
52) cis-1,3-Dichloropropene	17.64	75	25115	1.130	ng	97
53) 4-Methyl-2-pentanone	17.76	58	5101	0.397	ng	99
54) trans-1,3-Dichloropropene	18.36	75	17871	0.846	ng	96
55) 1,1,2-Trichloroethane	18.60	97	719	0.061	ng #	75
58) Toluene	18.98	91	175860	3.522	ng	100
59) 2-Hexanone	19.37	43	8121	0.245	ng	86
60) Dibromochloromethane	19.53	129	942	0.080	ng	85
61) 1,2-Dibromoethane	19.86	107	909	0.073	ng	82
62) n-Butyl Acetate	20.17	43	32510	0.831	ng	92
63) n-Octane	20.27	57	6577	0.545	ng	97
64) Tetrachloroethene	20.46	166	1137	0.098	ng	98
65) Chlorobenzene	21.34	112	2966	0.096	ng	86
66) Ethylbenzene	21.82	91	15231	0.267	ng	98
67) m- & p-Xylenes	22.03	91	30746	0.666	ng	99
68) Bromoform	22.14	173	356	N.D.		
69) Styrene	22.50	104	17724	0.531	ng #	63
70) o-Xylene	22.65	91	14524	0.314	ng	99
71) n-Nonane	22.91	43	20468	0.665	ng	94
72) 1,1,2,2-Tetrachloroethane	22.63	83	1726	0.084	ng #	18
74) Cumene	23.41	105	5751	0.098	ng	85
75) alpha-Pinene	23.90	93	542414	18.093	ng	91
76) n-Propylbenzene	24.04	91	10180	0.138	ng	98
77) 3-Ethyltoluene	24.17	105	15577	0.279	ng	99
78) 4-Ethyltoluene	24.22	105	10749	0.198	ng	95
79) 1,3,5-Trimethylbenzene	24.31	105	10143	0.222	ng	89

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260906.D
 Acq On : 26 Aug 2009 1:43 pm
 Operator : WA/CC
 Sample : P0902876-001 dil (200mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 06:21:31 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

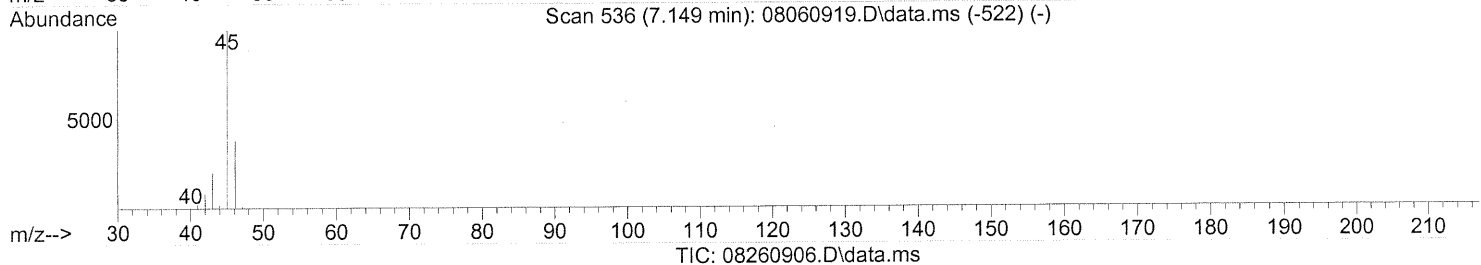
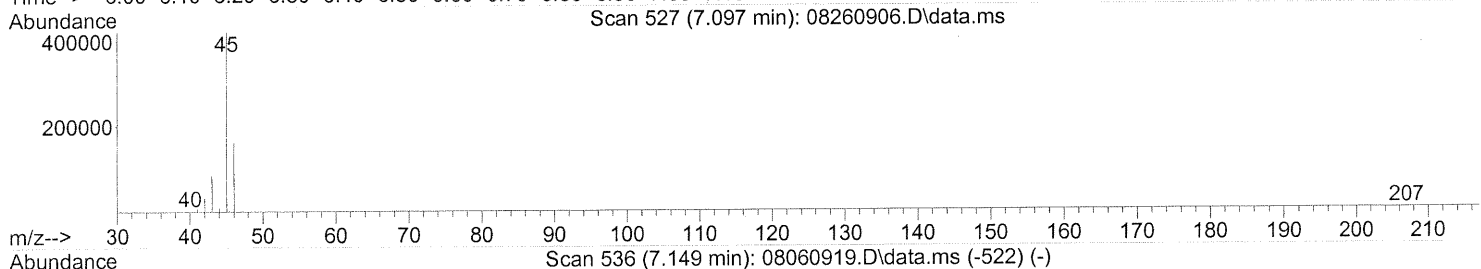
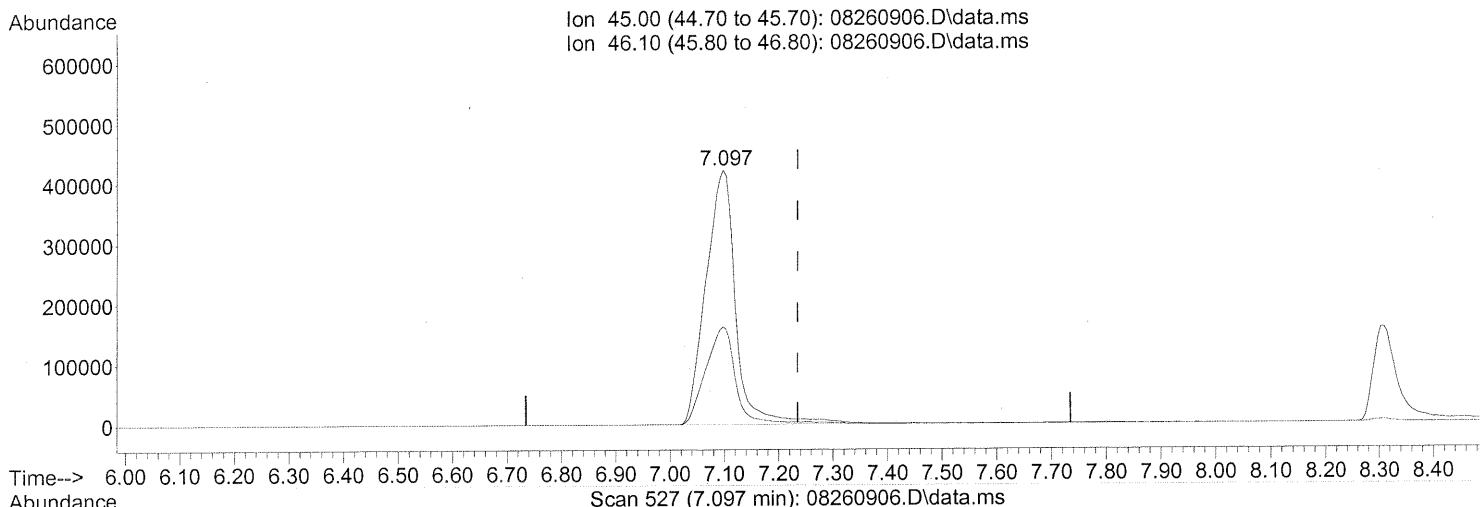
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	2040	0.083	ng	84
81) 2-Ethyltoluene	24.55	105	10068	0.179	ng	91
82) 1,2,4-Trimethylbenzene	24.82	105	20644	0.443	ng	88
83) n-Decane	24.93	57	26133	0.863	ng	94
84) Benzyl Chloride	25.00	91	7658	0.175	ng	92
85) 1,3-Dichlorobenzene	25.02	146	2552	0.108	ng	91
86) 1,4-Dichlorobenzene	25.10	146	4245	0.169	ng	98
87) sec-Butylbenzene	25.16	105	5693	0.090	ng	85
88) 4-Isopropyltoluene (p-...	25.35	119	44360	0.791	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	9769	0.206	ng	# 59
90) 1,2-Dichlorobenzene	25.53	146	2657	0.119	ng	96
91) d-Limonene	25.53	68	154211	7.785	ng	81
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1063	0.138	ng	# 1
93) n-Undecane	26.46	57	14759	0.458	ng	80
94) 1,2,4-Trichlorobenzene	27.58	180	2839	0.185	ng	91
95) Naphthalene	27.73	128	22901	0.362	ng	98
96) n-Dodecane	27.69	57	11865	0.317	ng	95
97) Hexachlorobutadiene	28.14	225	1605	0.164	ng	# 74
98) Cyclohexanone	22.30	55	6682	0.323	ng	90
99) tert-Butylbenzene	24.82	119	5952	0.132	ng	# 87
100) n-Butylbenzene	25.86	91	8141	0.157	ng	# 76

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260906.D
 Acq On : 26 Aug 2009 1:43 pm
 Operator : WA/CC
 Sample : P0902876-001 dil (200mL)
 Misc : Environmental Health 102349
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 27 06:21:31 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.137) 154.88ng

response 1622257

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.64
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: 102350

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-002

Test Code: EPA TO-15

Date Collected: 8/18/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/20/09

Analyst: Wida Ang

Date Analyzed: 8/25/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC01185

Initial Pressure (psig): -5.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	16	1.0	9.2	0.59	M1
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	1.0	0.56	0.21	
74-87-3	Chloromethane	0.80	0.20	0.39	0.099	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.0	ND	0.15	
75-01-4	Vinyl Chloride	ND	0.20	ND	0.080	
106-99-0	1,3-Butadiene	ND	0.20	ND	0.092	
74-83-9	Bromomethane	ND	0.20	ND	0.053	
75-00-3	Chloroethane	ND	0.20	ND	0.077	
64-17-5	Ethanol	870	10	460	5.4	
75-05-8	Acetonitrile	100	1.0	62	0.61	
107-02-8	Acrolein	5.7	1.0	2.5	0.45	
67-64-1	Acetone	220	10	93	4.3	
75-69-4	Trichlorofluoromethane	1.4	0.20	0.24	0.036	
67-63-0	2-Propanol (Isopropyl Alcohol)	73	1.0	30	0.42	
107-13-1	Acrylonitrile	ND	1.0	ND	0.47	
75-35-4	1,1-Dichloroethene	ND	0.20	ND	0.051	
75-09-2	Methylene Chloride	ND	1.0	ND	0.29	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.20	ND	0.065	
76-13-1	Trichlorotrifluoroethane	0.58	0.20	0.076	0.027	
75-15-0	Carbon Disulfide	2.6	1.0	0.85	0.33	
156-60-5	trans-1,2-Dichloroethene	ND	0.20	ND	0.051	
75-34-3	1,1-Dichloroethane	ND	0.20	ND	0.050	
1634-04-4	Methyl tert-Butyl Ether	ND	0.20	ND	0.057	
108-05-4	Vinyl Acetate	ND	10	ND	2.9	
78-93-3	2-Butanone (MEK)	6.3	1.0	2.1	0.35	

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: _____

9/8/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102350
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01185

CAS Project ID: P0902876
 CAS Sample ID: P0902876-002

Date Collected: 8/18/09
 Date Received: 8/20/09
 Date Analyzed: 8/25/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.04

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.20	ND	0.051	
141-78-6	Ethyl Acetate	9.7	1.0	2.7	0.28	
110-54-3	n-Hexane	ND	1.0	ND	0.29	
67-66-3	Chloroform	2.0	0.20	0.42	0.042	
109-99-9	Tetrahydrofuran (THF)	ND	1.0	ND	0.35	
107-06-2	1,2-Dichloroethane	2.1	0.20	0.52	0.050	
71-55-6	1,1,1-Trichloroethane	ND	0.20	ND	0.037	
71-43-2	Benzene	0.93	0.20	0.29	0.064	
56-23-5	Carbon Tetrachloride	0.53	0.20	0.085	0.032	
110-82-7	Cyclohexane	ND	1.0	ND	0.30	
78-87-5	1,2-Dichloropropane	ND	0.20	ND	0.044	
75-27-4	Bromodichloromethane	0.38	0.20	0.056	0.030	
79-01-6	Trichloroethene	ND	0.20	ND	0.038	
123-91-1	1,4-Dioxane	ND	1.0	ND	0.28	
80-62-6	Methyl Methacrylate	ND	1.0	ND	0.25	
142-82-5	n-Heptane	1.7	1.0	0.41	0.25	
10061-01-5	cis-1,3-Dichloropropene	6.8	1.0	1.5	0.22	
108-10-1	4-Methyl-2-pentanone	2.2	1.0	0.53	0.25	
10061-02-6	trans-1,3-Dichloropropene	4.8	1.0	1.1	0.22	
79-00-5	1,1,2-Trichloroethane	ND	0.20	ND	0.037	
108-88-3	Toluene	21	1.0	5.5	0.27	
591-78-6	2-Hexanone	ND	1.0	ND	0.25	
124-48-1	Dibromochloromethane	ND	0.20	ND	0.024	
106-93-4	1,2-Dibromoethane	ND	0.20	ND	0.027	
123-86-4	n-Butyl Acetate	4.8	1.0	1.0	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.

Verified By: _____

Date: _____

9/8/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102350
Client Project ID: 16512

CAS Project ID: P0902876
 CAS Sample ID: P0902876-002

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01185

Date Collected: 8/18/09
 Date Received: 8/20/09
 Date Analyzed: 8/25/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 2.04

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.7	1.0	0.36	0.22	
127-18-4	Tetrachloroethene	0.22	0.20	0.033	0.030	
108-90-7	Chlorobenzene	ND	0.20	ND	0.044	
100-41-4	Ethylbenzene	1.2	1.0	0.27	0.23	
179601-23-1	m,p-Xylenes	3.1	1.0	0.72	0.23	
75-25-2	Bromoform	ND	1.0	ND	0.099	
100-42-5	Styrene	2.7	1.0	0.64	0.24	
95-47-6	o-Xylene	1.3	1.0	0.30	0.23	
111-84-2	n-Nonane	3.8	1.0	0.73	0.19	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	ND	0.030	
98-82-8	Cumene	ND	1.0	ND	0.21	
80-56-8	alpha-Pinene	100	1.0	19	0.18	
103-65-1	n-Propylbenzene	ND	1.0	ND	0.21	
622-96-8	4-Ethyltoluene	ND	1.0	ND	0.21	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	ND	0.21	
95-63-6	1,2,4-Trimethylbenzene	2.2	1.0	0.44	0.21	
100-44-7	Benzyl Chloride	ND	0.20	ND	0.039	
541-73-1	1,3-Dichlorobenzene	ND	0.20	ND	0.034	
106-46-7	1,4-Dichlorobenzene	0.29	0.20	0.048	0.034	
95-50-1	1,2-Dichlorobenzene	ND	0.20	ND	0.034	
5989-27-5	d-Limonene	39	1.0	7.1	0.18	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	ND	0.11	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	ND	0.14	
91-20-3	Naphthalene	ND	1.0	ND	0.19	
87-68-3	Hexachlorobutadiene	ND	1.0	ND	0.096	

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: _____

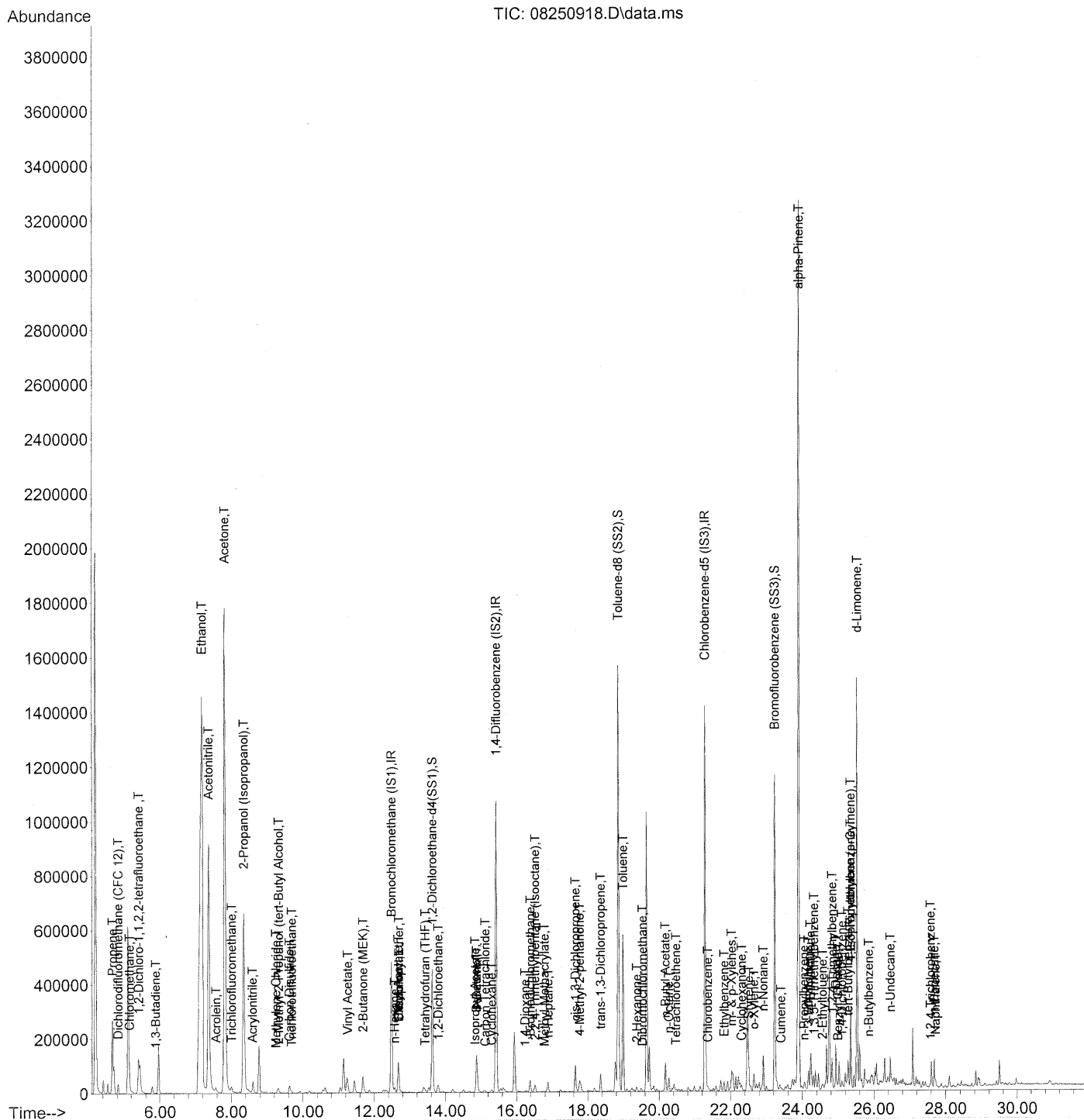
9/2/09

TO15scan.xls - 75 Compounds - PageNo.:

63

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 16:53:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 16:53:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

178/31/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	245612	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1229353	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	589503	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	464581	21.763	ng	-0.03
Spiked Amount	25.000			Recovery =	87.04%	
57) Toluene-d8 (SS2)	18.85	98	1342955	26.072	ng	-0.02
Spiked Amount	25.000			Recovery =	104.28%	
73) Bromofluorobenzene (SS3)	23.23	174	381850	28.111	ng	-0.01
Spiked Amount	25.000			Recovery =	112.44%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	130144	7.722	ng	89
3) Dichlorodifluoromethan...	4.83	85	37079	1.346	ng	99
4) Chloromethane	5.15	50	7298	0.394	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	1652	0.148	ng	77
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	968	0.076	ng	# 70
8) Bromomethane	6.35	94	190	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.18	45	4533113	424.309	ng	100
11) Acetonitrile	7.36	41	1604742	51.290	ng	99
12) Acrolein	7.57	56	22866	2.812	ng	99
13) Acetone	7.81	58	1091004	108.231	ng	92
14) Trichlorofluoromethane	8.01	101	16490	0.662	ng	100
15) 2-Propanol (Isopropanol)	8.35	45	1425553	35.987	ng	99
16) Acrylonitrile	8.59	53	1433	0.079	ng	# 9
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.32	59	9047	0.257	ng	# 59
19) Methylene Chloride	9.25	84	1554	0.115	ng	92
20) 3-Chloro-1-propene (Al...	9.43	41	94	N.D.		
21) Trichlorotrifluoroethane	9.68	151	2577	0.285	ng	99
22) Carbon Disulfide	9.62	76	61684	1.292	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	11.20	73	538	N.D.		
26) Vinyl Acetate	11.24	86	8263	4.028	ng	# 69
27) 2-Butanone (MEK)	11.68	72	28030	3.080	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	2317	0.190	ng	# 1
30) Ethyl Acetate	12.67	61	22434	4.731	ng	99
31) n-Hexane	12.57	57	9882	0.407	ng	92

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 16:53:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	21296	0.997 ng		97
34) Tetrahydrofuran (THF)	13.43	72	3084	0.318 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	20211	1.036 ng		97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.83	61	1723	0.189 ng	#	1
40) 1-Butanol	14.87	56	102915	6.450 ng		80
41) Benzene	14.87	78	24629	0.456 ng		100
42) Carbon Tetrachloride	15.11	117	4502	0.261 ng		97
43) Cyclohexane	15.29	84	5019	0.254 ng		95
44) tert-Amyl Methyl Ether	16.08	73	104	N.D.		
45) 1,2-Dichloropropane	16.10	63	532	N.D.		
46) Bromodichloromethane	16.38	83	3279	0.184 ng		88
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.23	88	1297	0.126 ng	#	12
49) 2,2,4-Trimethylpentane...	16.51	57	26085	0.410 ng		90
50) Methyl Methacrylate	16.77	100	323	0.065 ng	#	1
51) n-Heptane	16.88	71	11919	0.822 ng		98
52) cis-1,3-Dichloropropene	17.65	75	74832	3.326 ng		100
53) 4-Methyl-2-pentanone	17.76	58	13752	1.059 ng		99
54) trans-1,3-Dichloropropene	18.36	75	50168	2.345 ng		99
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	515769	10.189 ng		99
59) 2-Hexanone	19.37	43	15723	0.467 ng		93
60) Dibromochloromethane	19.53	129	959	0.080 ng		84
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	93908	2.367 ng		96
63) n-Octane	20.27	57	10020	0.819 ng		94
64) Tetrachloroethene	20.47	166	1291	0.110 ng		88
65) Chlorobenzene	21.36	112	1652	0.053 ng	#	43
66) Ethylbenzene	21.82	91	33746	0.583 ng		98
67) m- & p-Xylenes	22.03	91	71621	1.530 ng		98
68) Bromoform	22.15	173	198	N.D.		
69) Styrene	22.51	104	45312	1.339 ng		94
70) o-Xylene	22.65	91	30247	0.644 ng		99
71) n-Nonane	22.91	43	58267	1.868 ng		96
72) 1,1,2,2-Tetrachloroethane	22.65	83	544	N.D.		
74) Cumene	23.41	105	4102	0.069 ng		92
75) alpha-Pinene	23.90	93	1537313	50.586 ng		83
76) n-Propylbenzene	24.05	91	11830	0.159 ng	#	88
77) 3-Ethyltoluene	24.17	105	30687	0.542 ng		97
78) 4-Ethyltoluene	24.23	105	17988	0.328 ng		88
79) 1,3,5-Trimethylbenzene	24.32	105	15026	0.325 ng		96

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 16:53:11 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

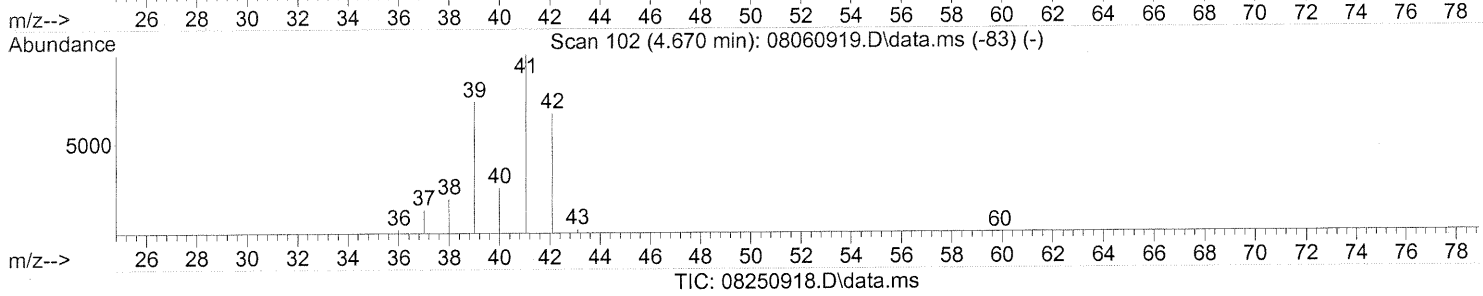
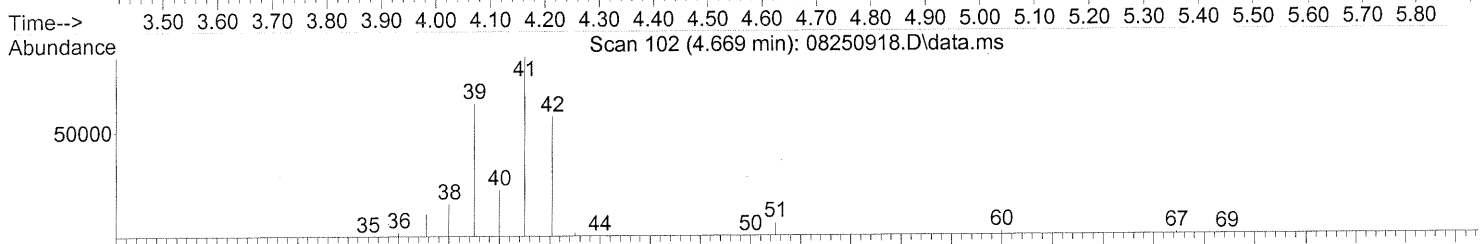
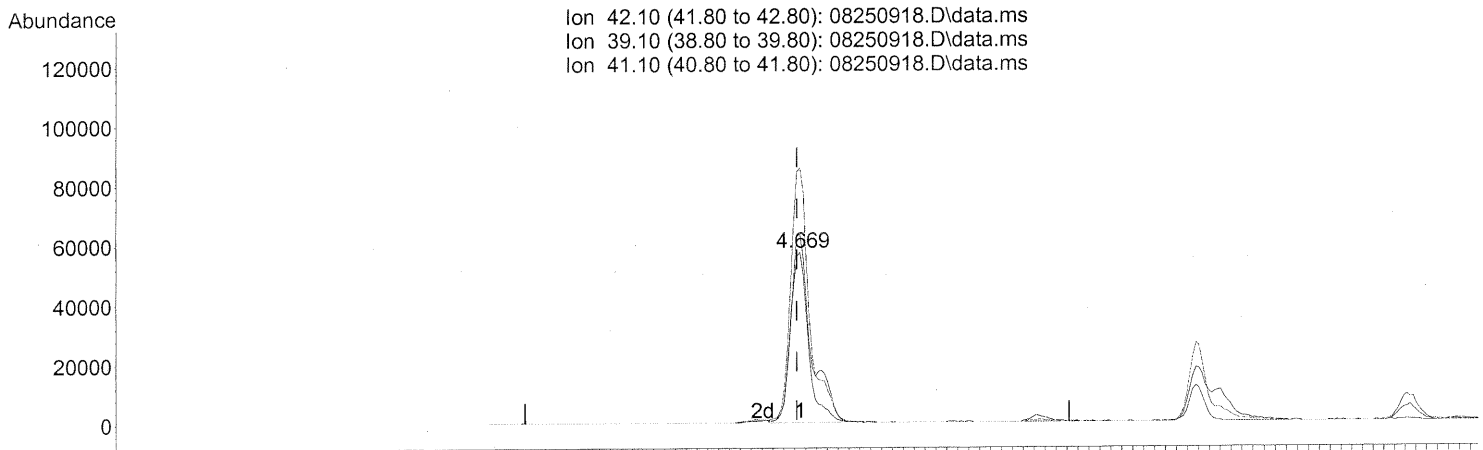
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	754	N.D.		
81) 2-Ethyltoluene	24.56	105	12786	0.224 ng		100
82) 1,2,4-Trimethylbenzene	24.83	105	49864	1.056 ng		88
83) n-Decane	24.93	57	64835	2.112 ng		91
84) Benzyl Chloride	24.99	91	2441	0.055 ng		66
85) 1,3-Dichlorobenzene	25.02	146	103	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	3616	0.142 ng		98
87) sec-Butylbenzene	25.16	105	2277	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	147349	2.590 ng		91
89) 1,2,3-Trimethylbenzene	25.35	105	20319	0.422 ng	#	22
90) 1,2-Dichlorobenzene	25.53	146	179	N.D.		
91) d-Limonene	25.53	68	387143	19.280 ng		94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	34658	1.061 ng		76
94) 1,2,4-Trichlorobenzene	27.58	180	1002	0.064 ng	#	79
95) Naphthalene	27.72	128	18496	0.288 ng		100
96) n-Dodecane	27.69	57	32756	0.863 ng		91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	10583	0.505 ng		99
99) tert-Butylbenzene	25.27	119	4161	0.091 ng		94
100) n-Butylbenzene	25.85	91	8634	0.164 ng	#	52

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
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 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



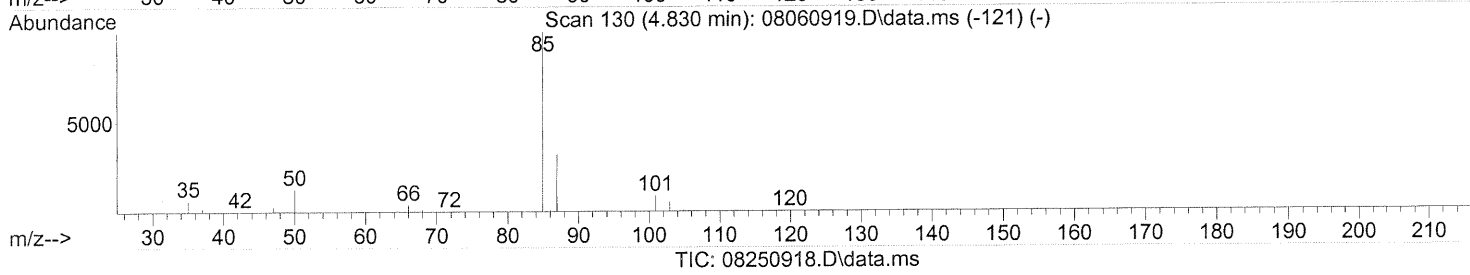
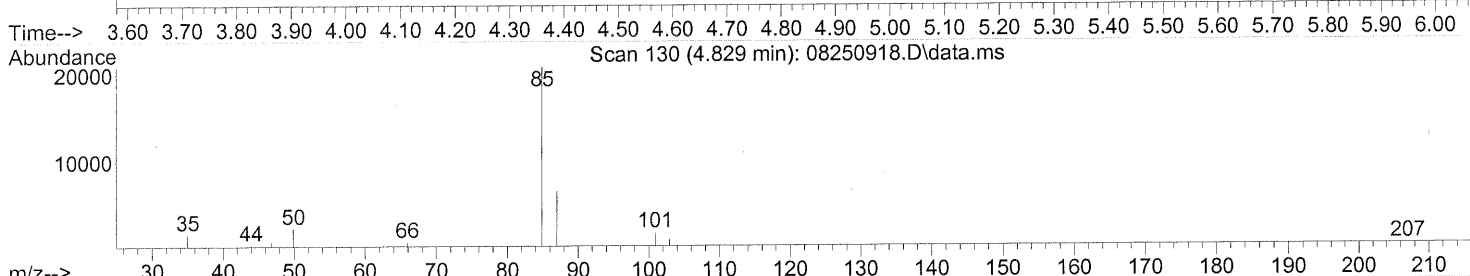
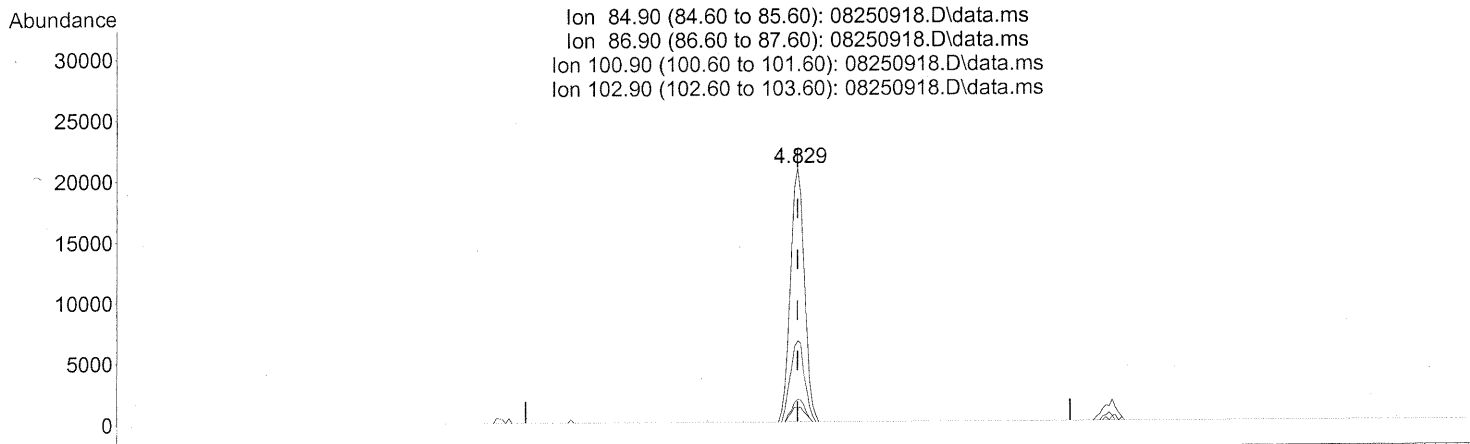
(2) Propene (T)
 4.669min (+0.006) 7.72ng
 response 130144

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	128.07
41.10	150.20	160.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (0.000) 1.35ng

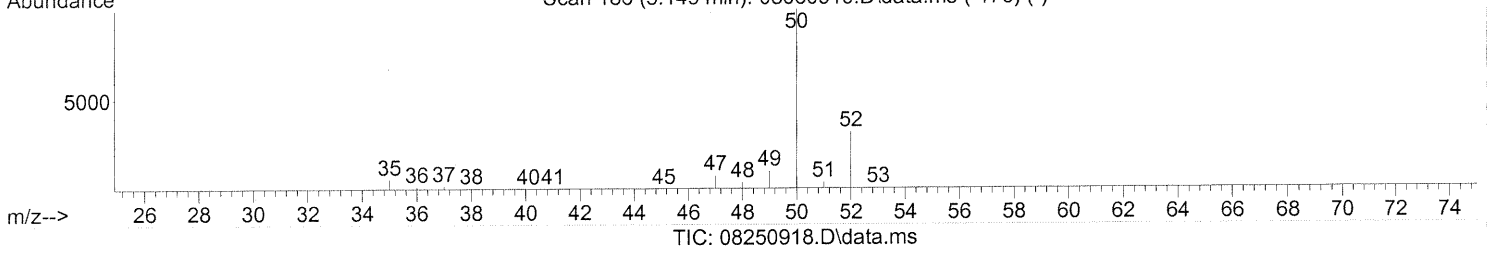
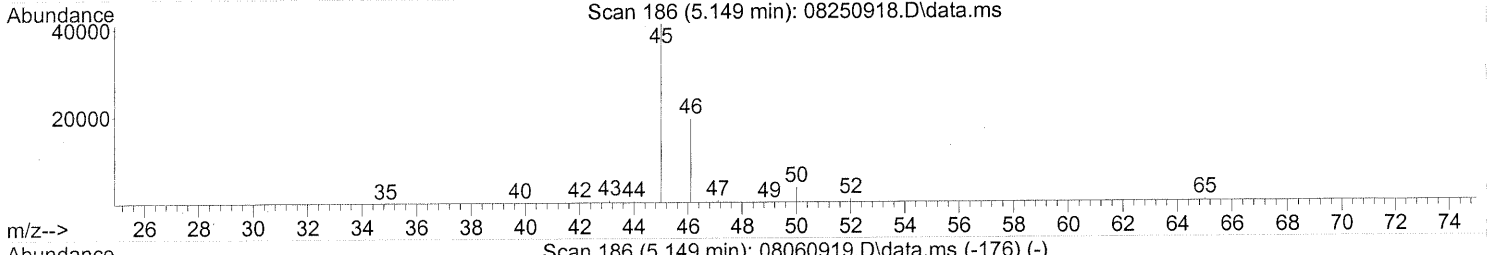
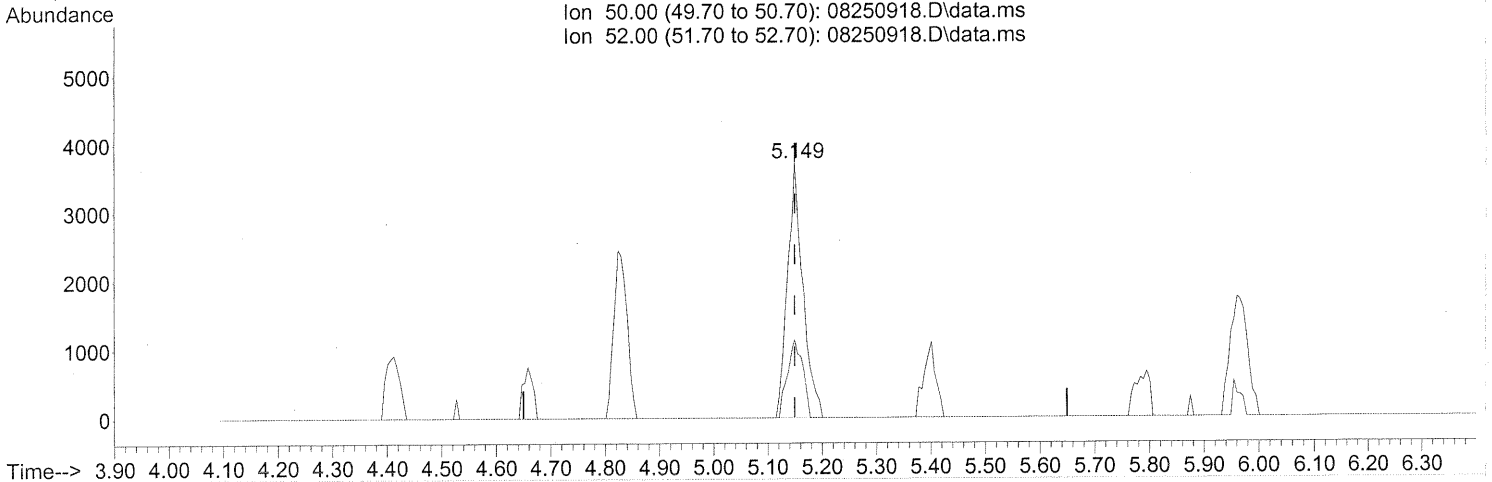
response 37079

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.52
100.90	8.80	8.37
102.90	5.20	5.69

Quantitation Report (Qedit)

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(4) Chloromethane (T)

5.149min (-0.000) 0.39ng

response 7298

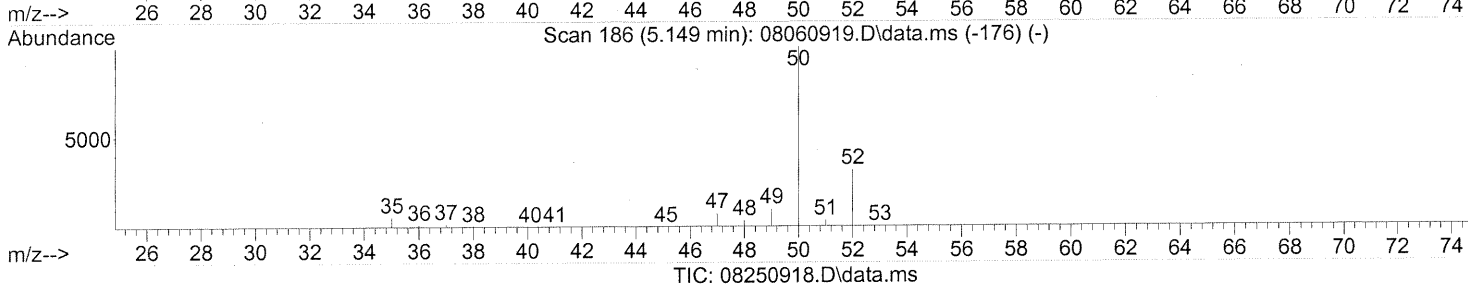
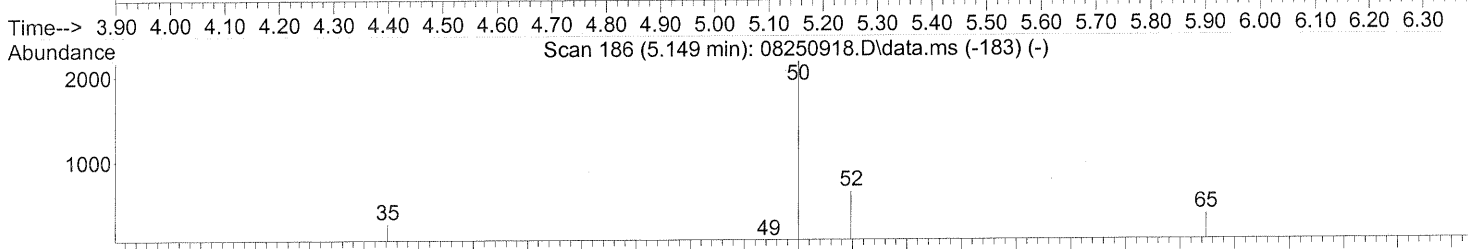
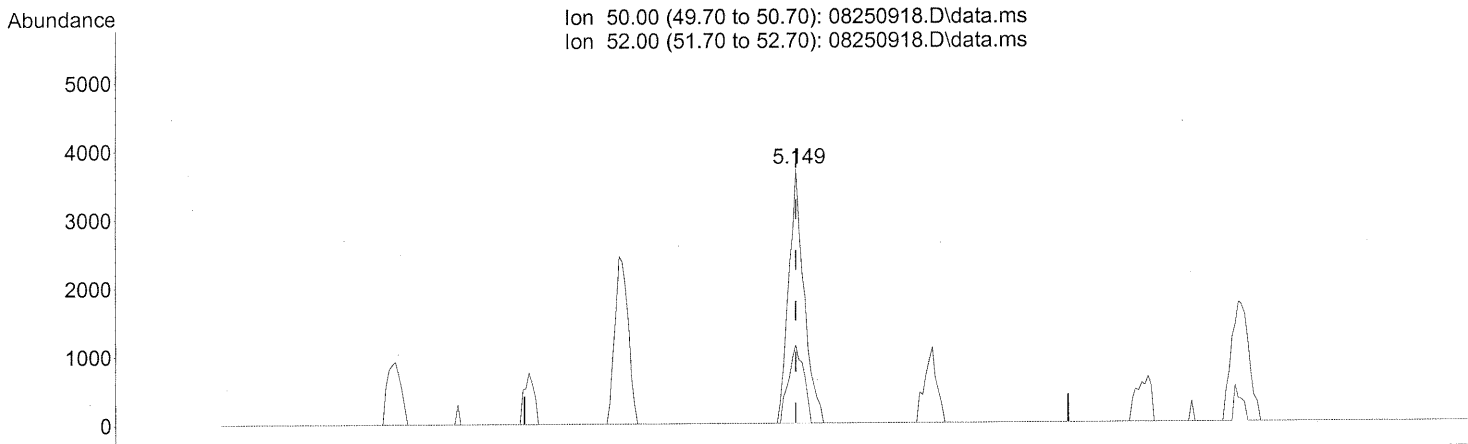
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.42
0.00	0.00	0.00
0.00	0.00	0.00

Be foree subtr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
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 Response via : Initial Calibration



(4) Chloromethane (T)

5.149min (-0.000) 0.39ng

response 7298

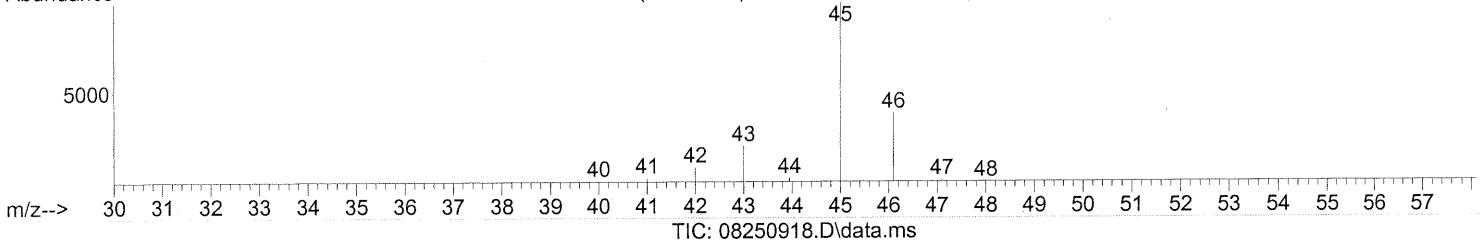
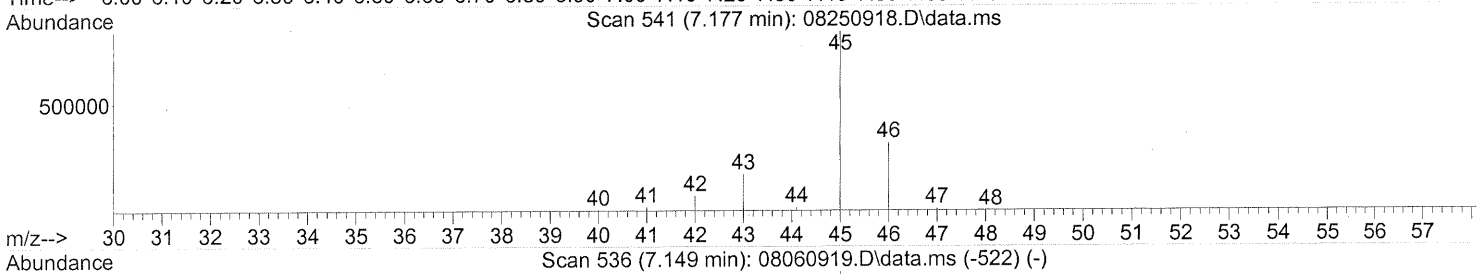
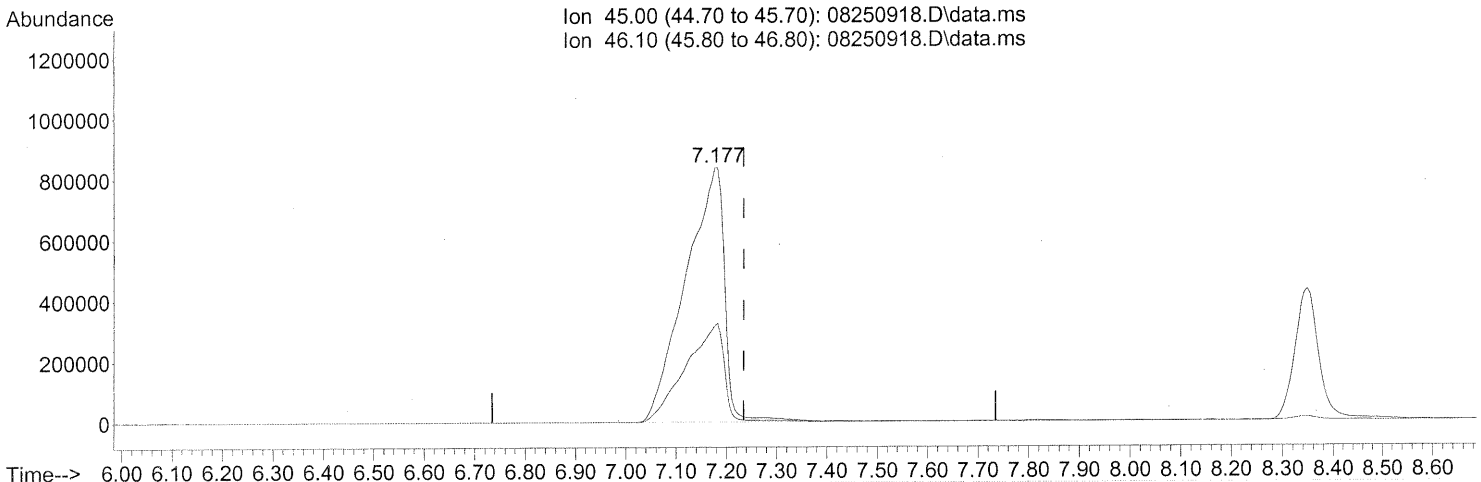
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.42
0.00	0.00	0.00
0.00	0.00	0.00

After subdr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
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Quant Time: Aug 31 16:53:11 2009
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 Response via : Initial Calibration



(10) Ethanol (T)

7.177min (-0.057) 424.31ng

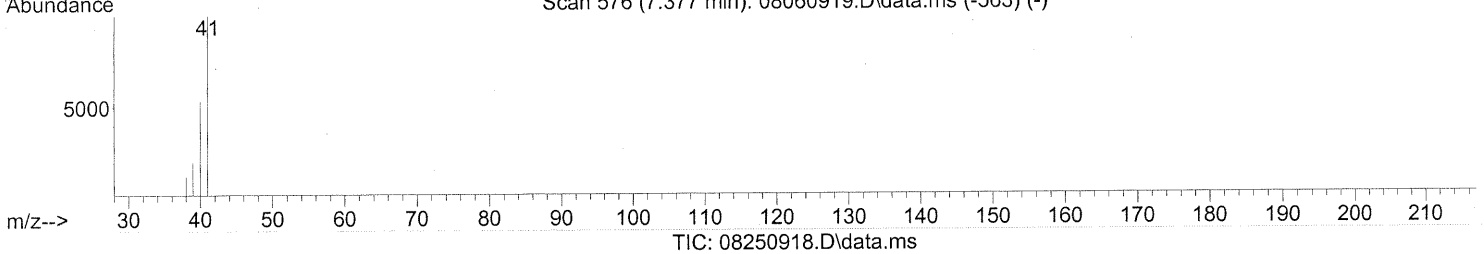
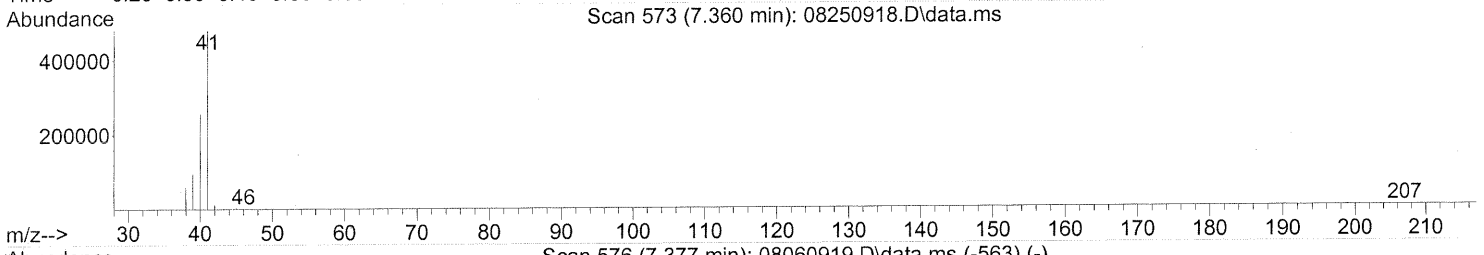
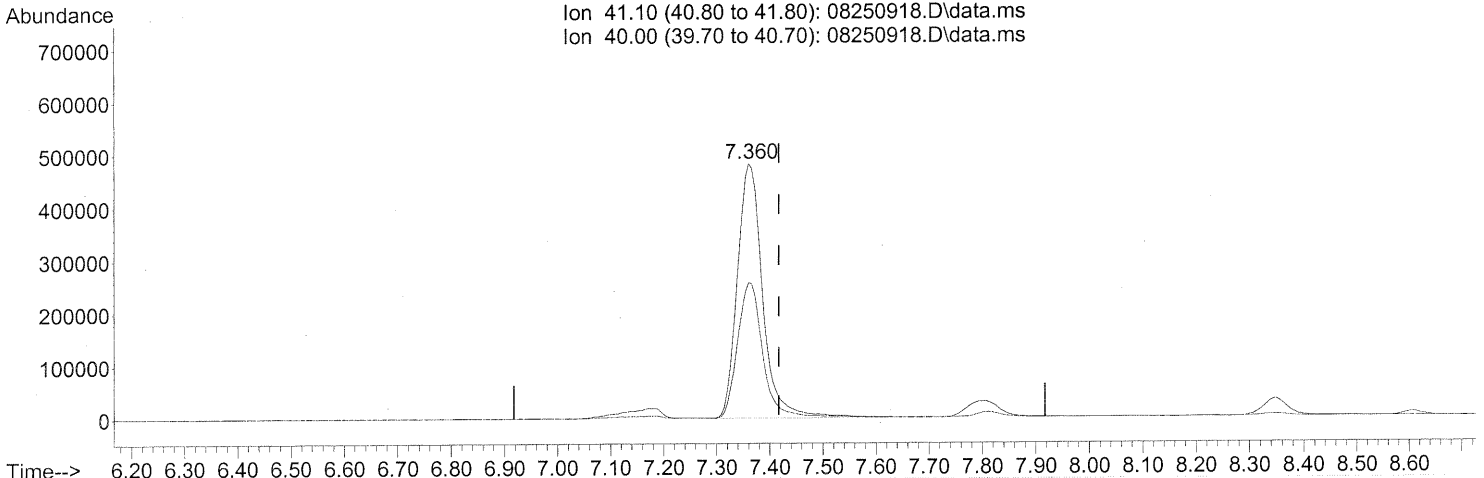
response 4533113

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
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(11) Acetonitrile (T)

7.360min (-0.057) 51.29ng

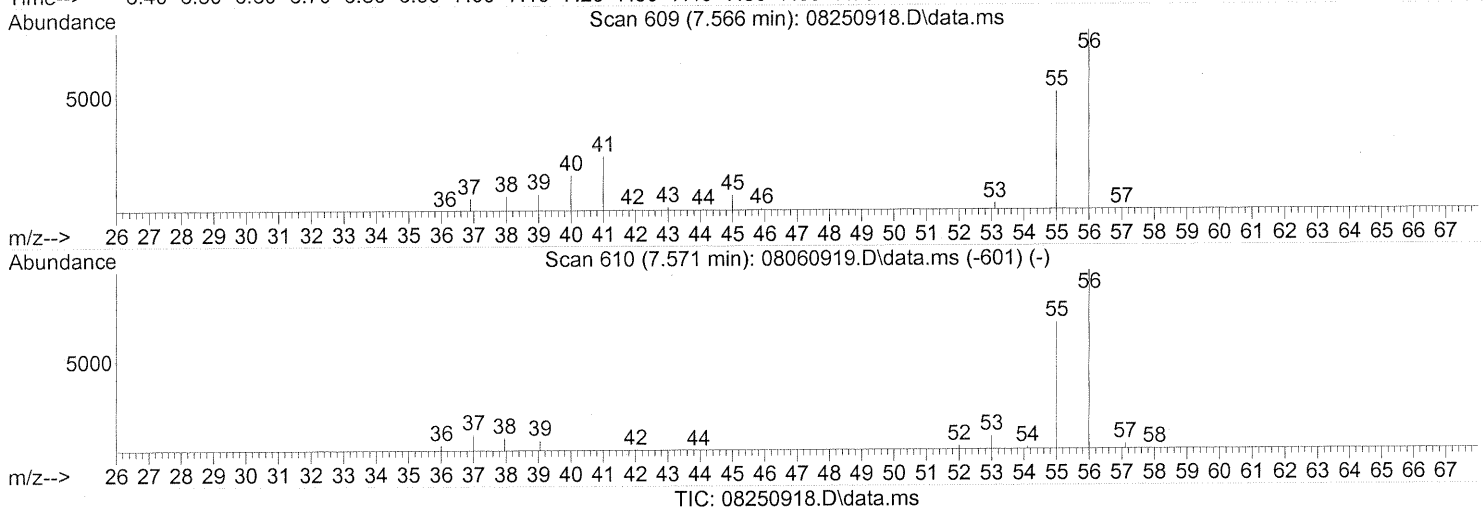
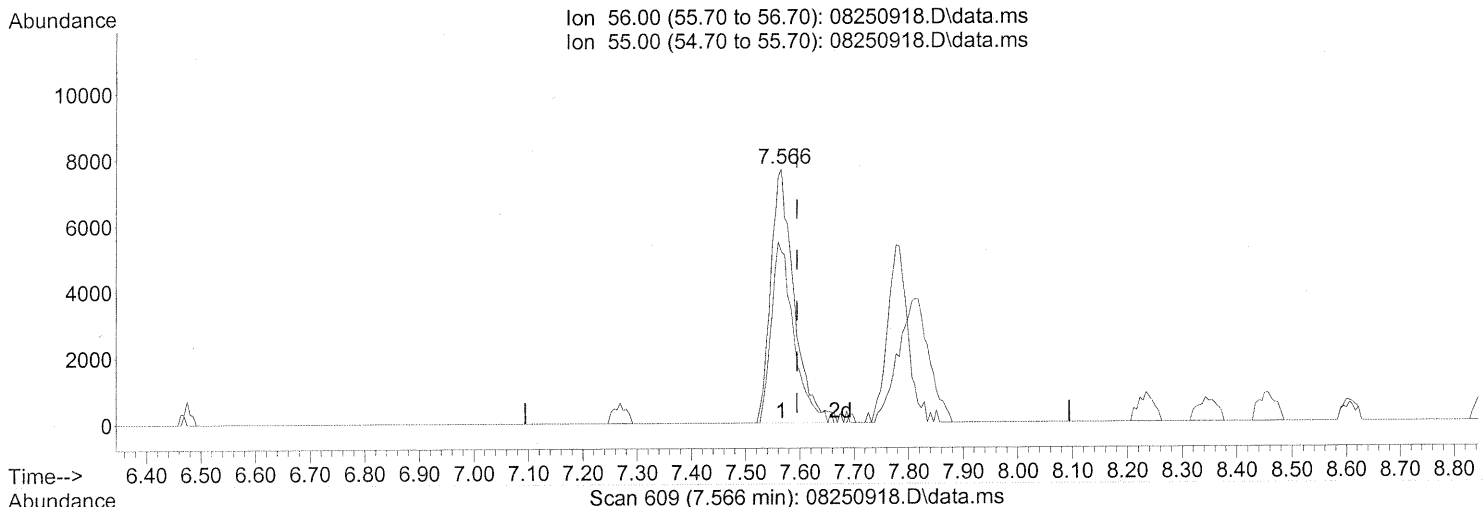
response 1604742

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	52.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
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Quant Time: Aug 26 06:39:36 2009
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 Response via : Initial Calibration



(12) Acrolein (T)

7.566min (-0.029) 2.81ng

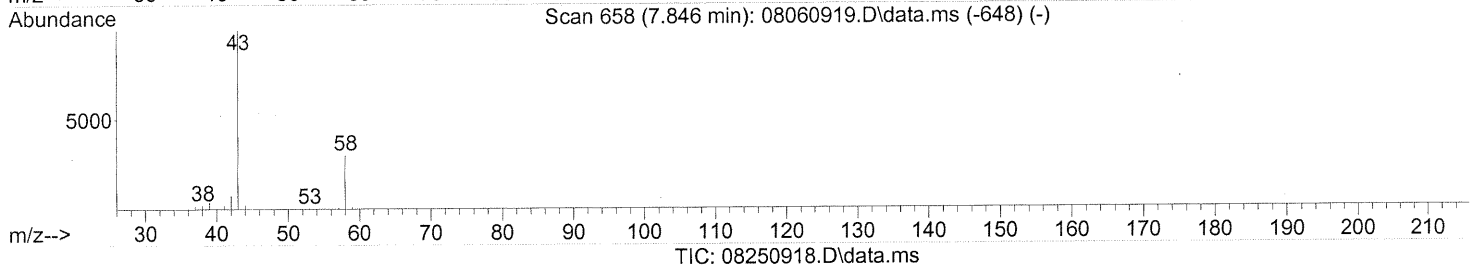
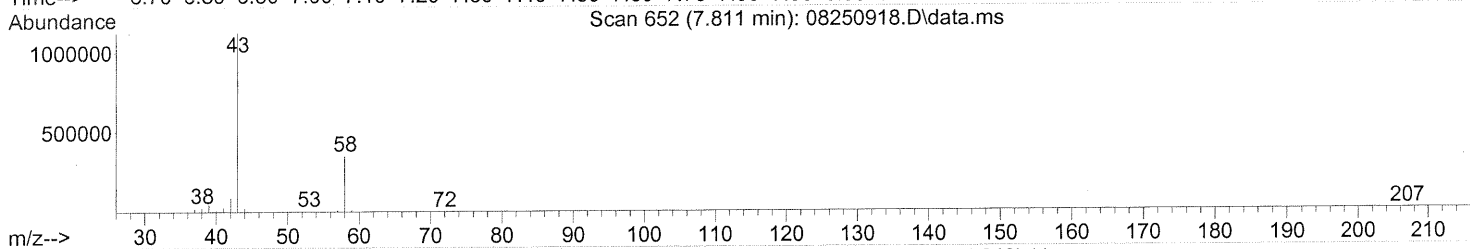
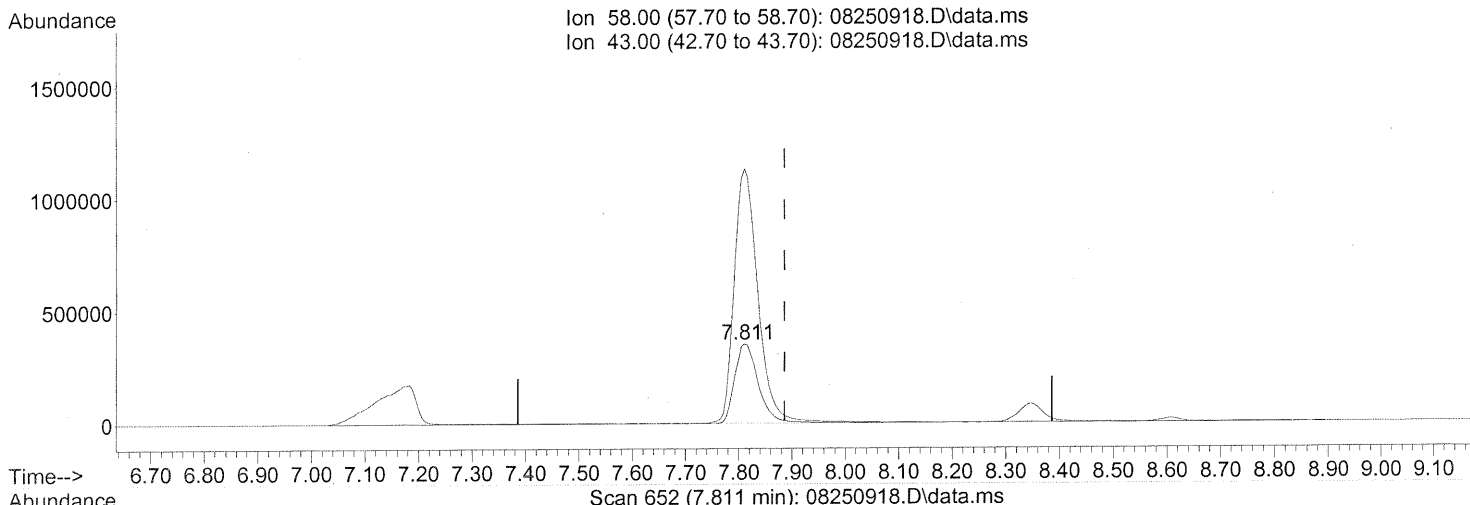
response 22866

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
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Quant Time: Aug 26 06:39:36 2009
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 Response via : Initial Calibration



(13) Acetone (T)

7.811min (-0.075) 108.23ng

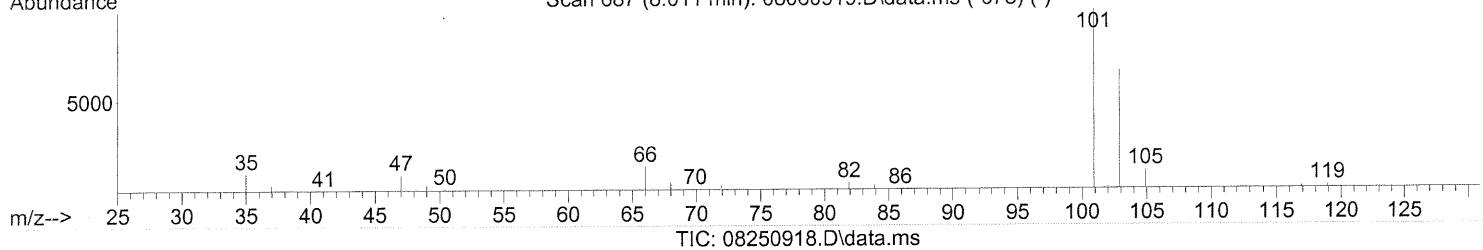
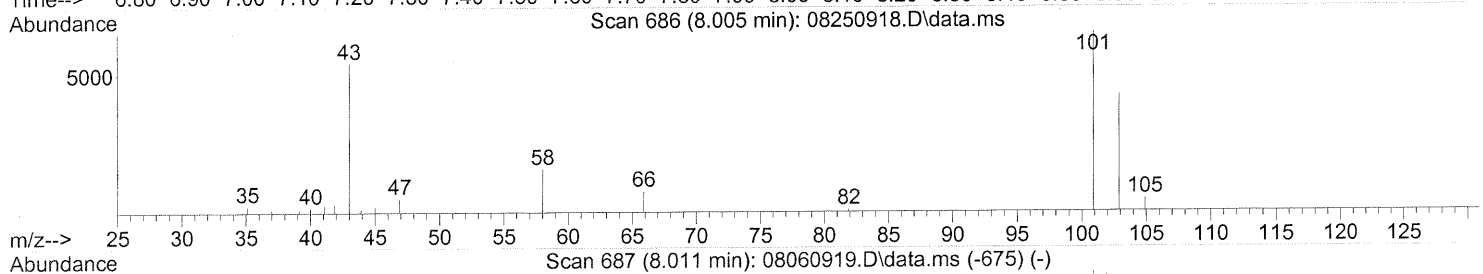
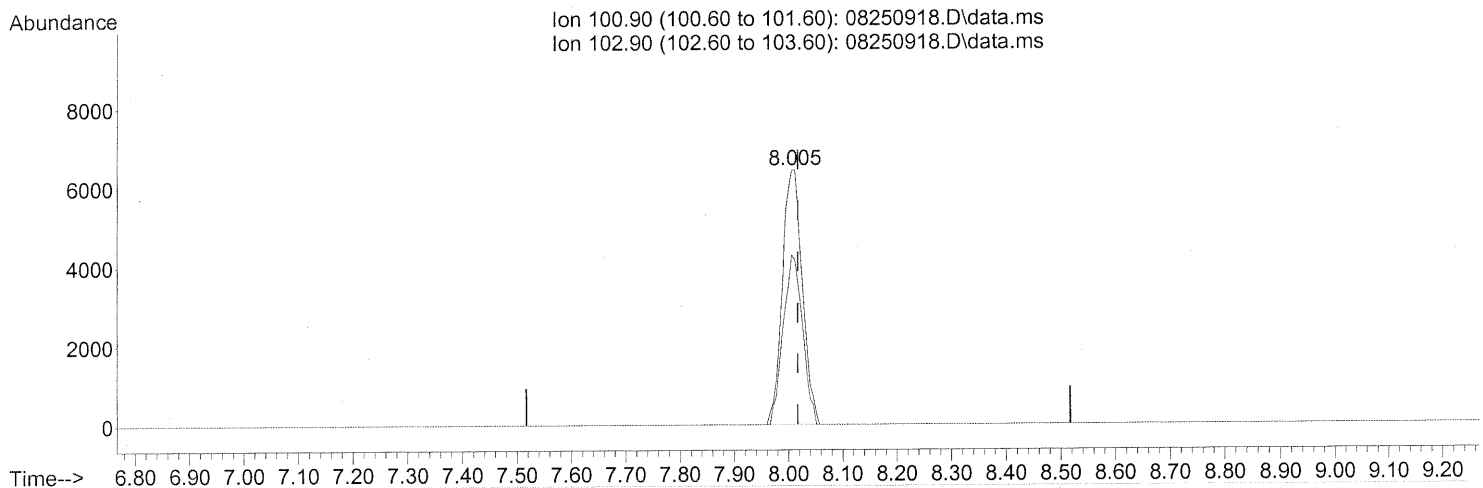
response 1091004

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	322.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(14) Trichlorofluoromethane (T)

8.005min (-0.011) 0.66ng

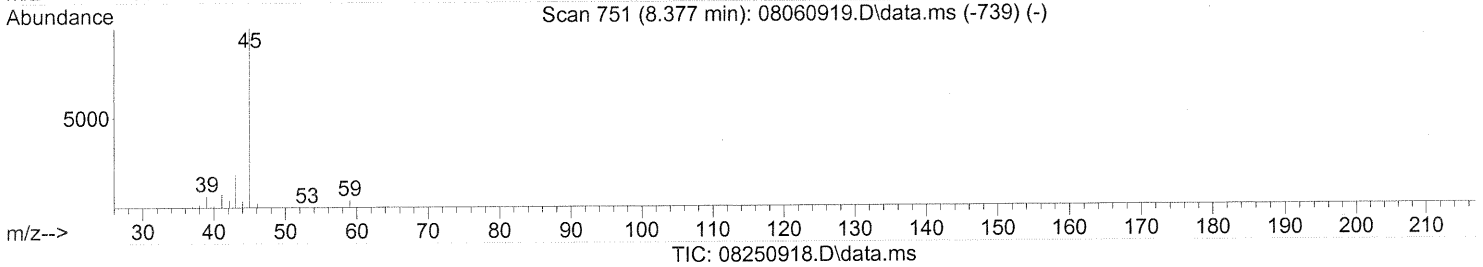
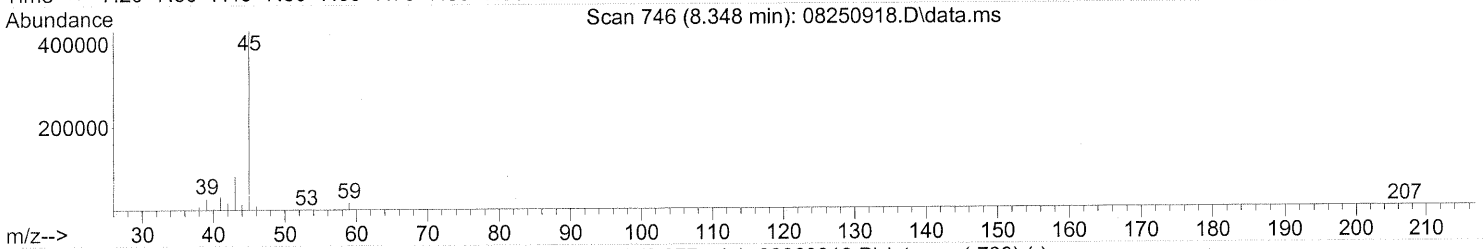
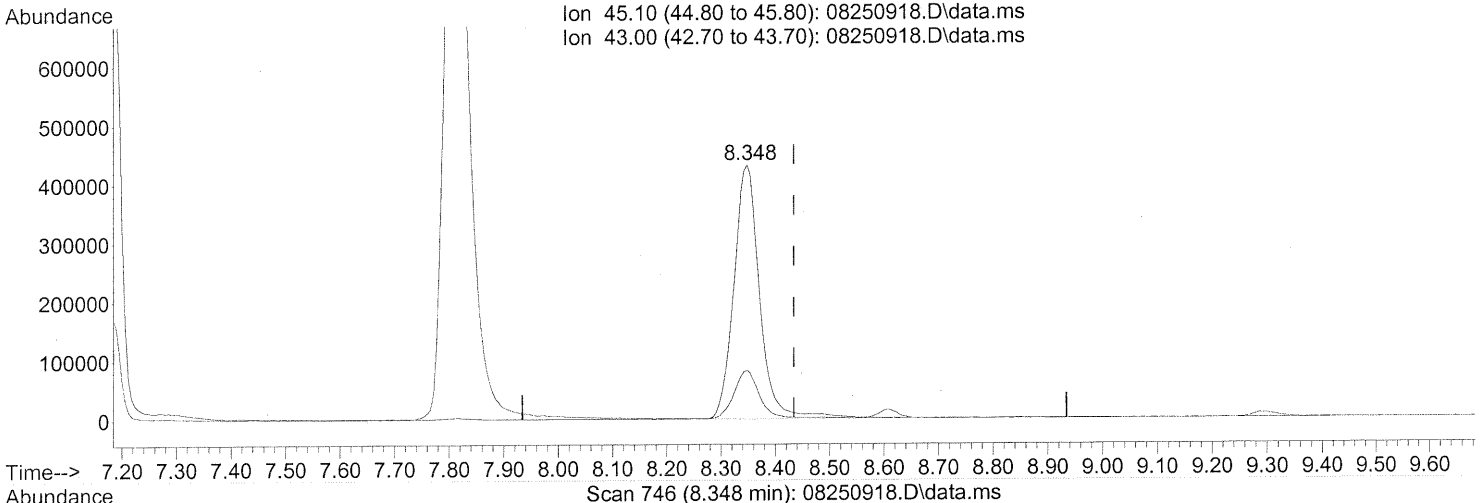
response 16490

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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

8.348min (-0.086) 35.99ng

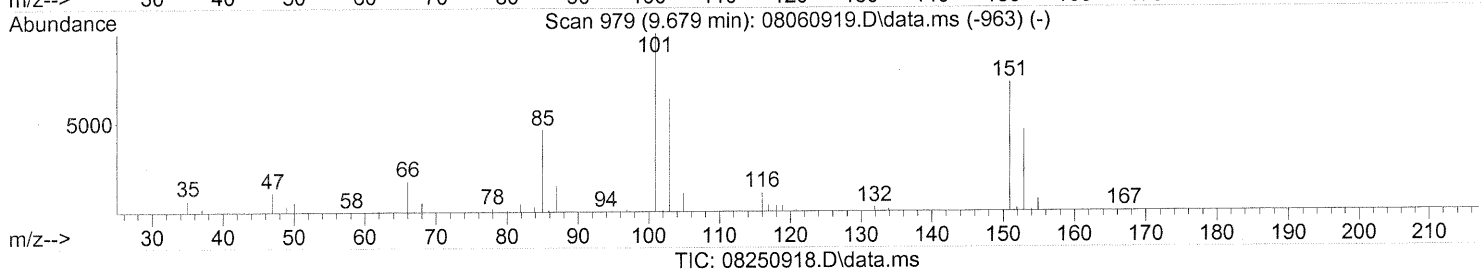
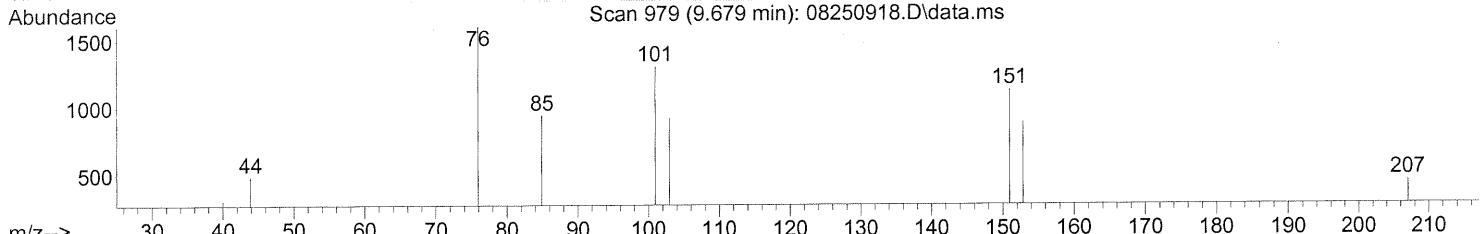
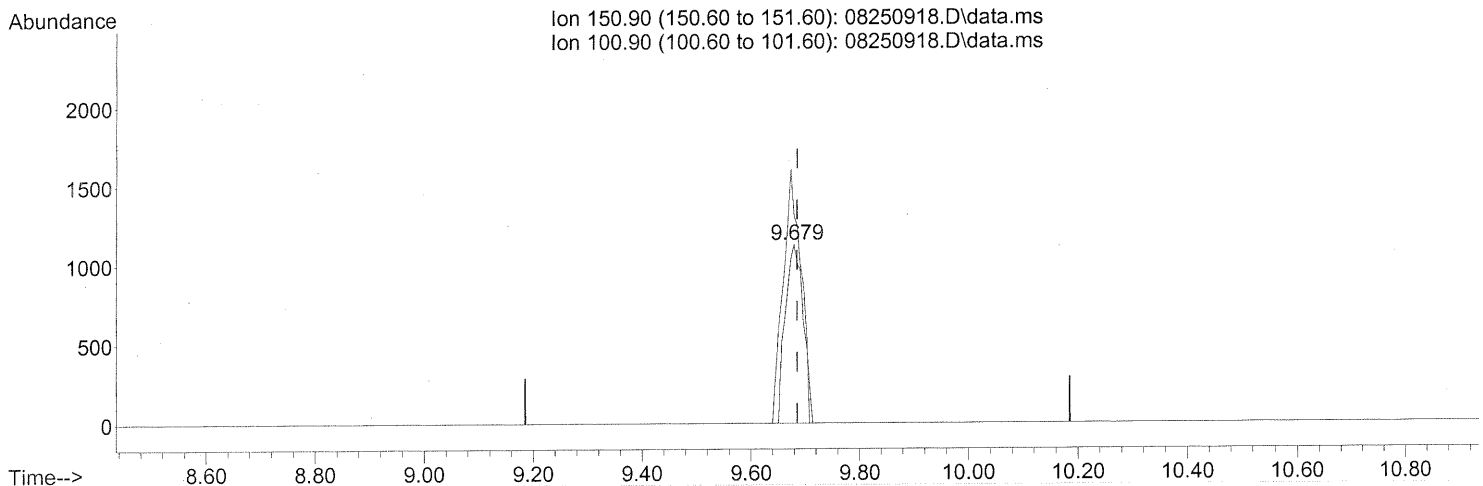
response 1425553

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.28ng

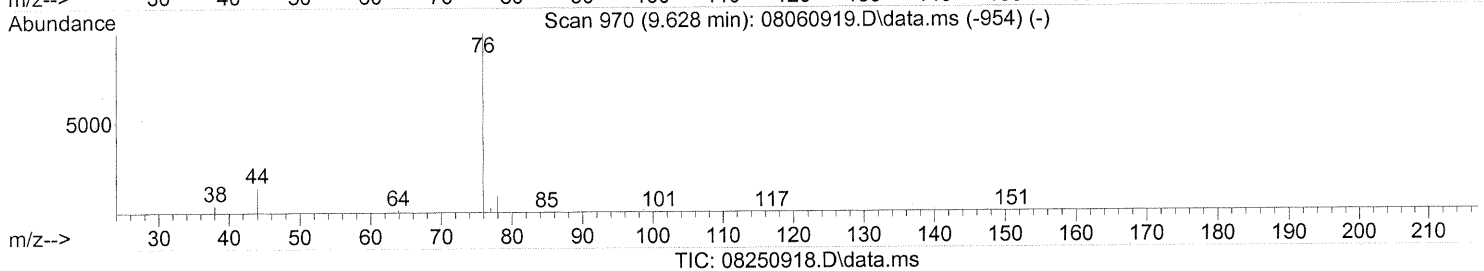
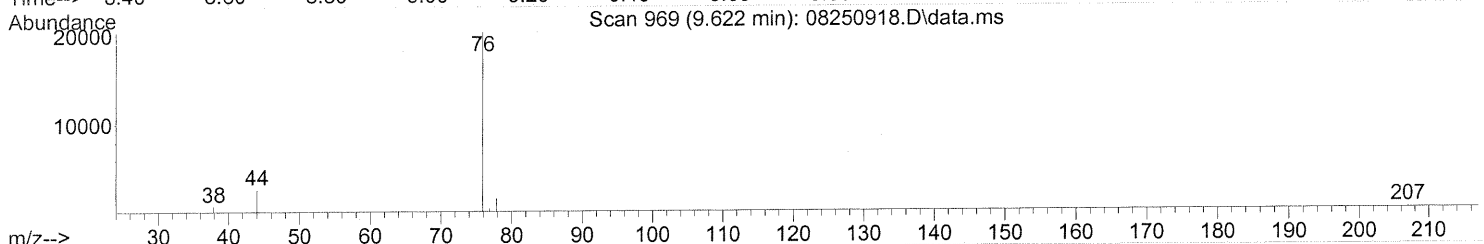
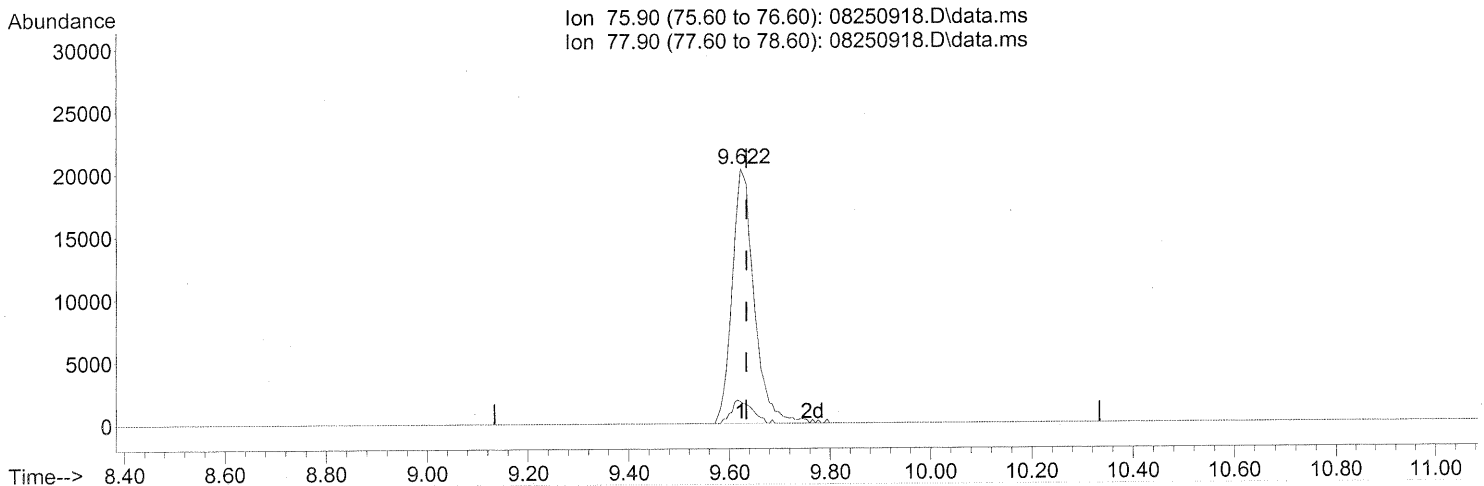
response 2577

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	139.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(22) Carbon Disulfide (T)

9.622min (-0.011) 1.29ng

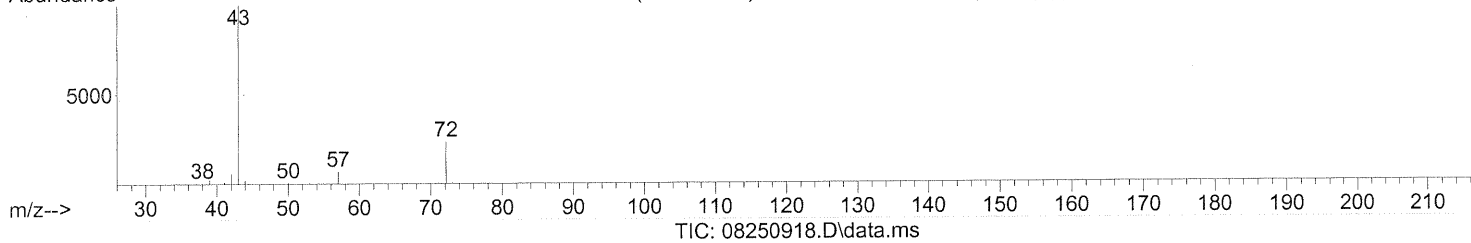
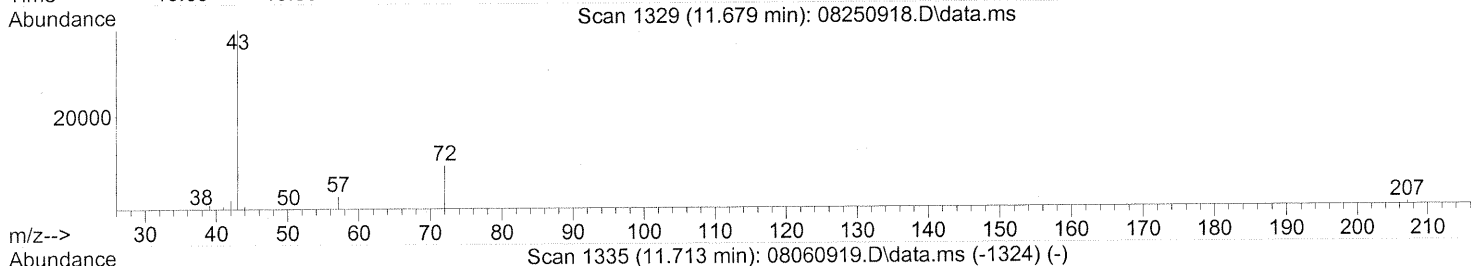
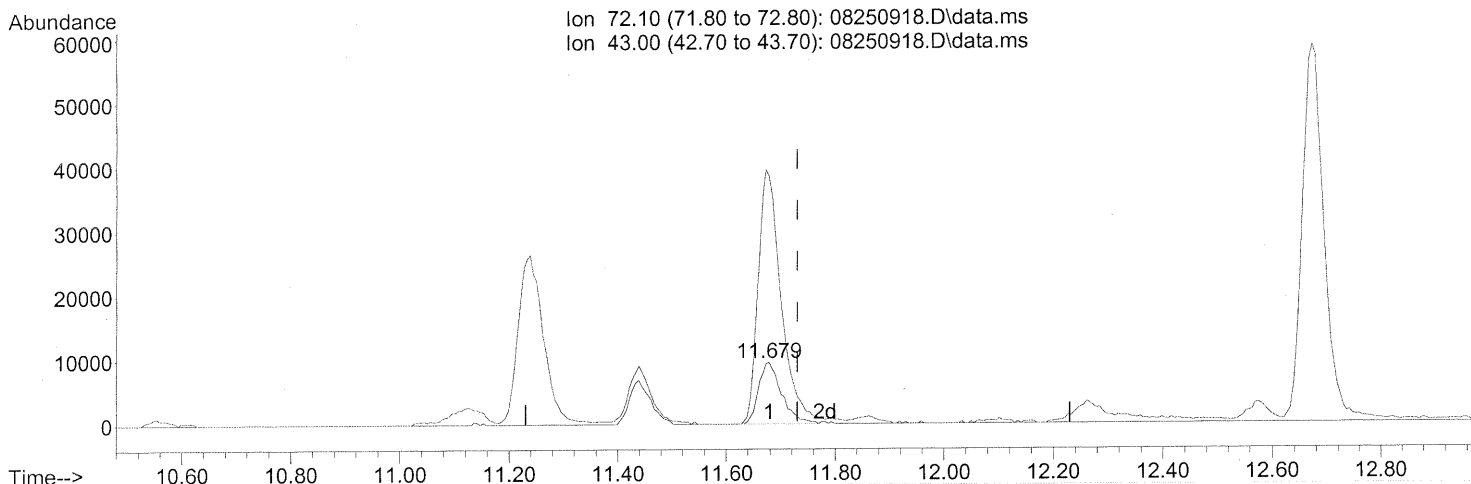
response 61684

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.679min (-0.051) 3.08ng

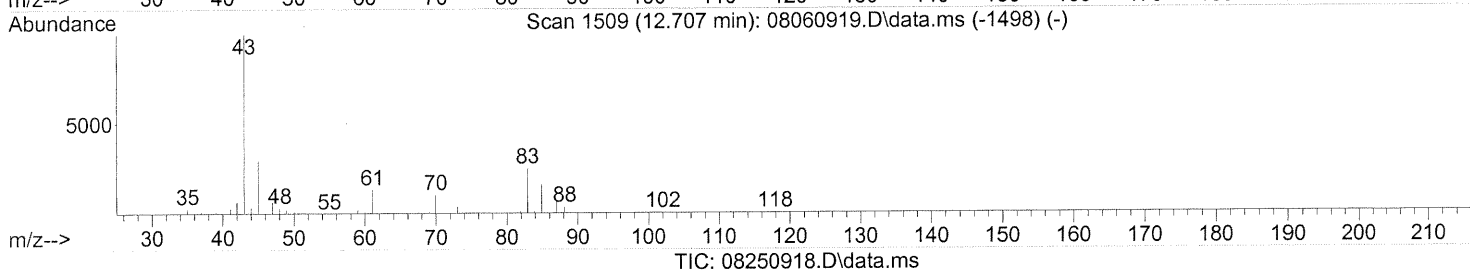
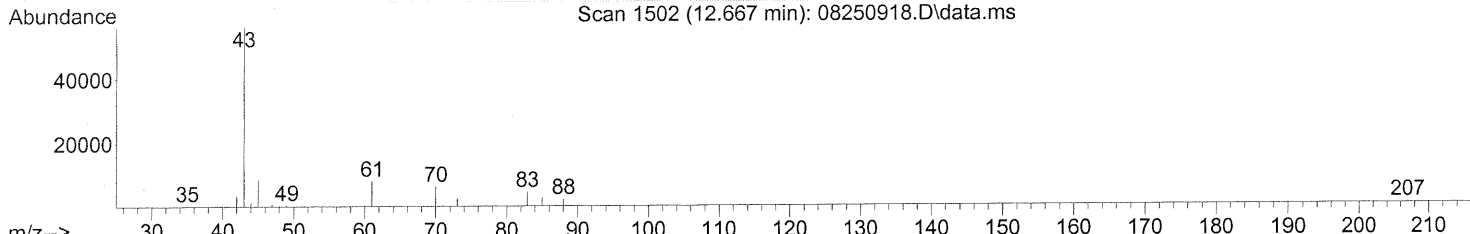
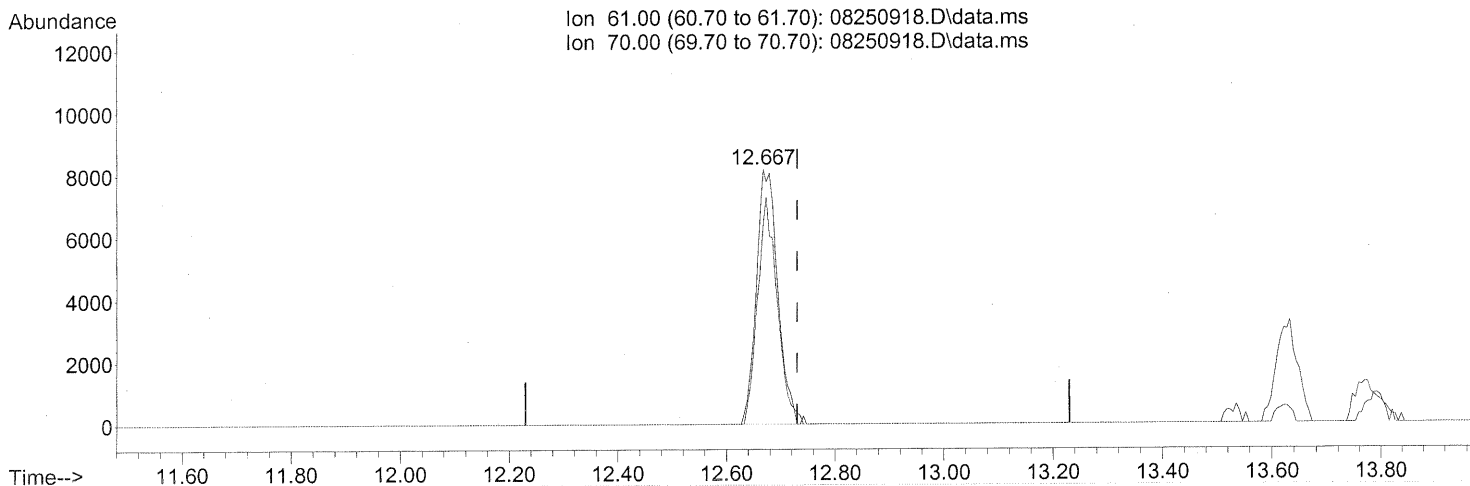
response 28030

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	421.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



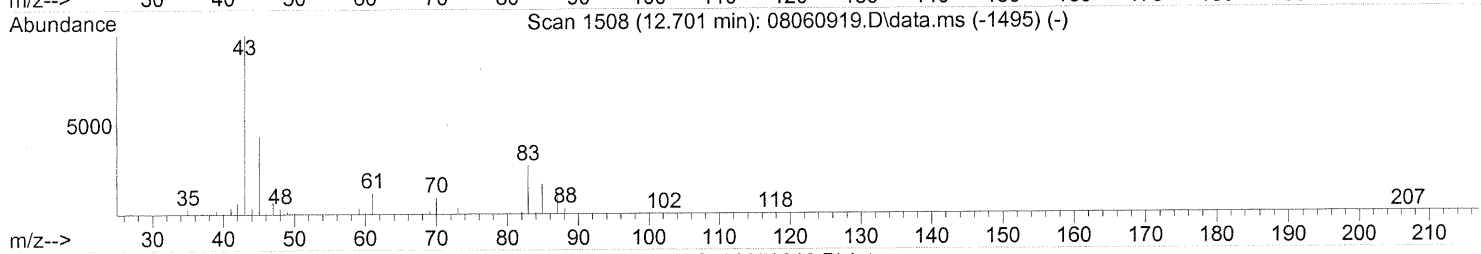
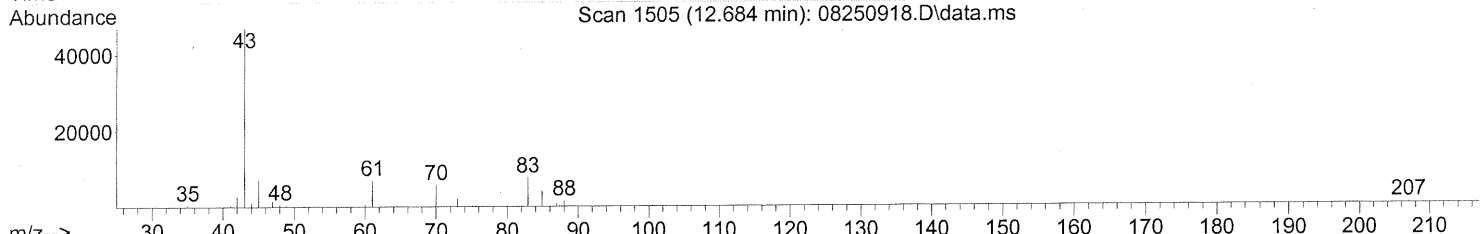
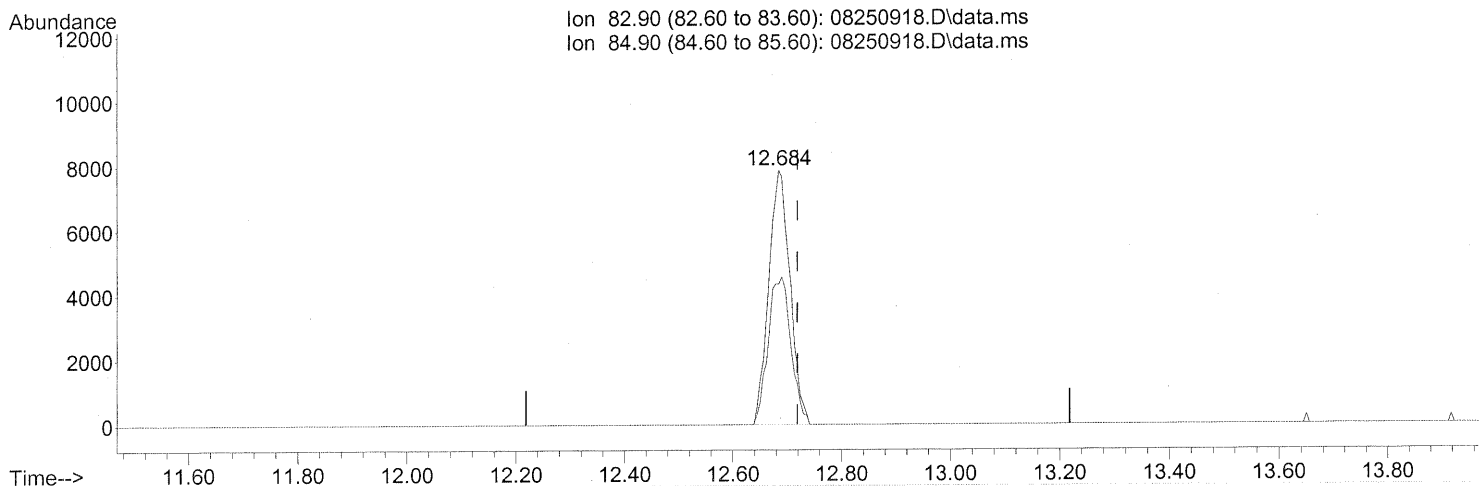
(30) Ethyl Acetate (T)
 12.667min (-0.063) 4.73ng
 response 22434

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250918.D\data.ms

(32) Chloroform (T)

12.684min (-0.034) 1.00ng

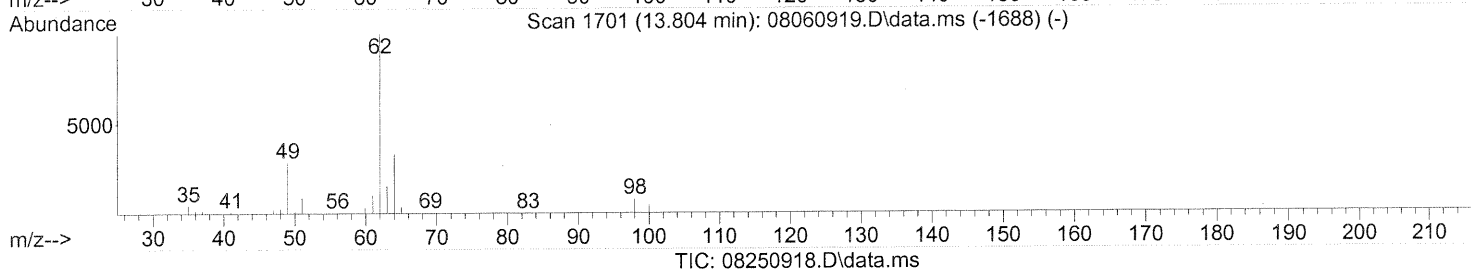
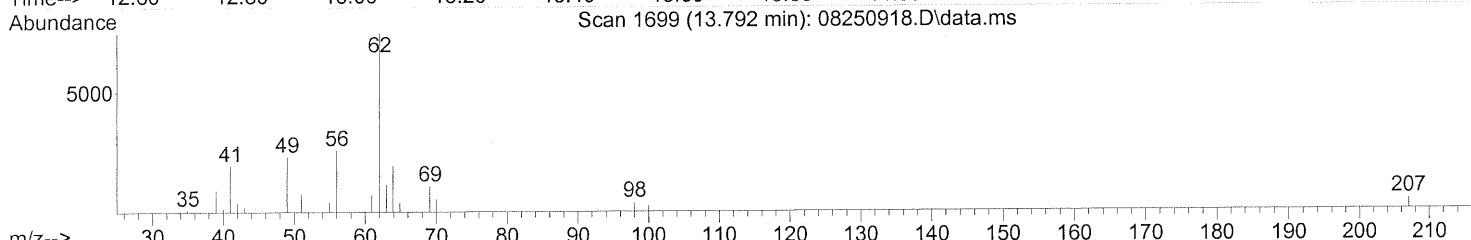
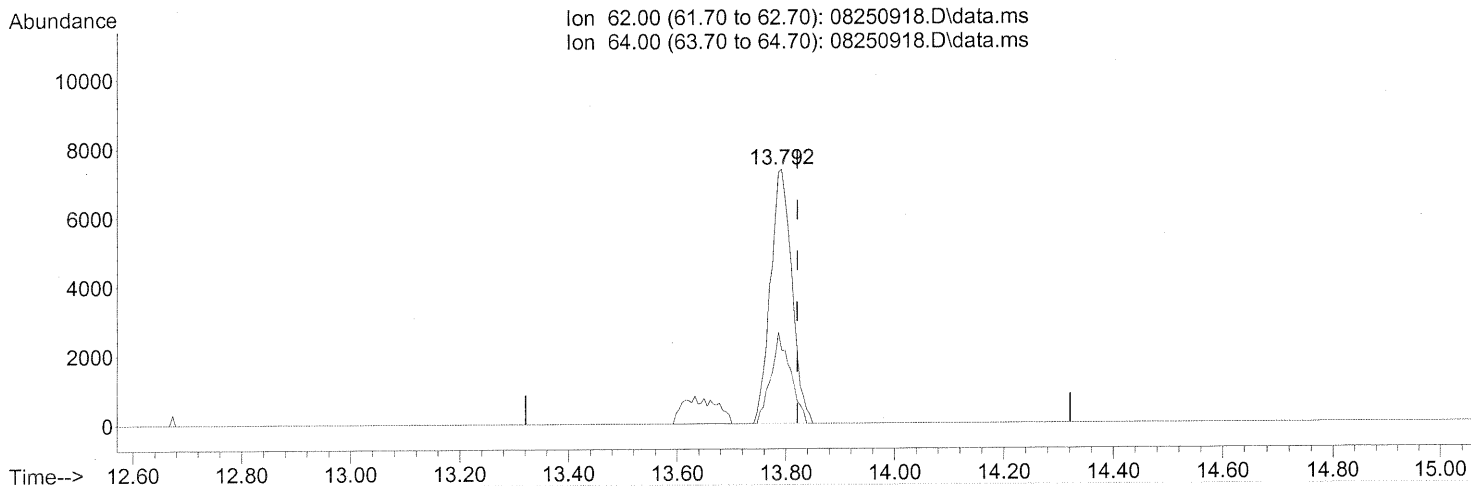
response 21296

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	62.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.04ng

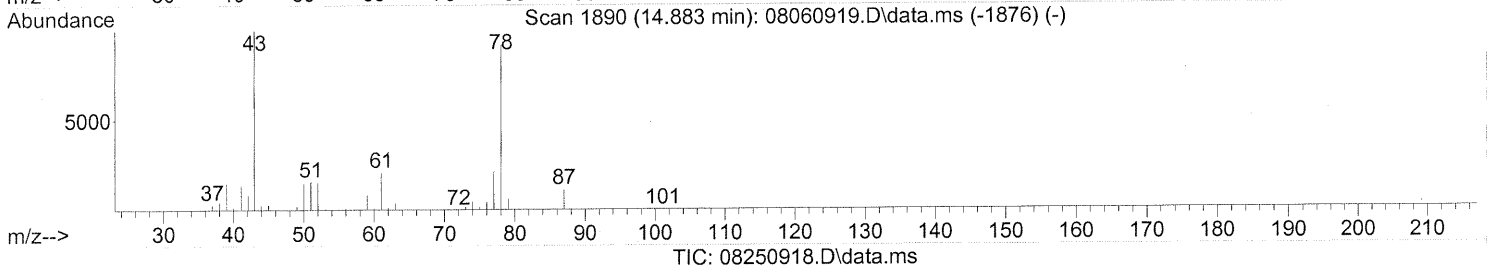
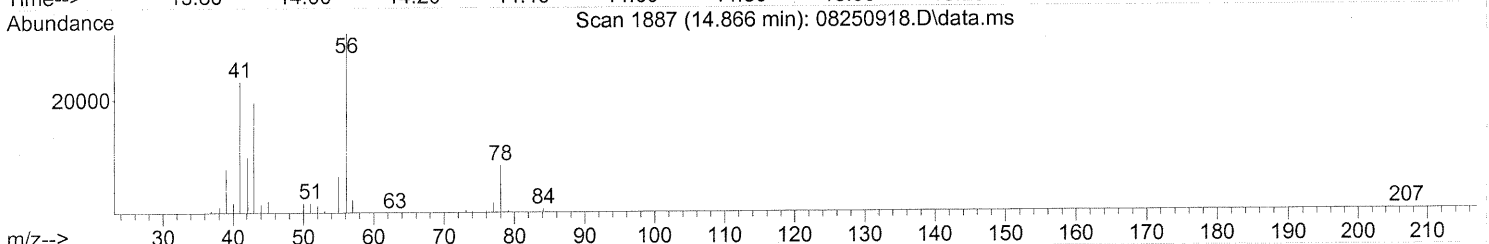
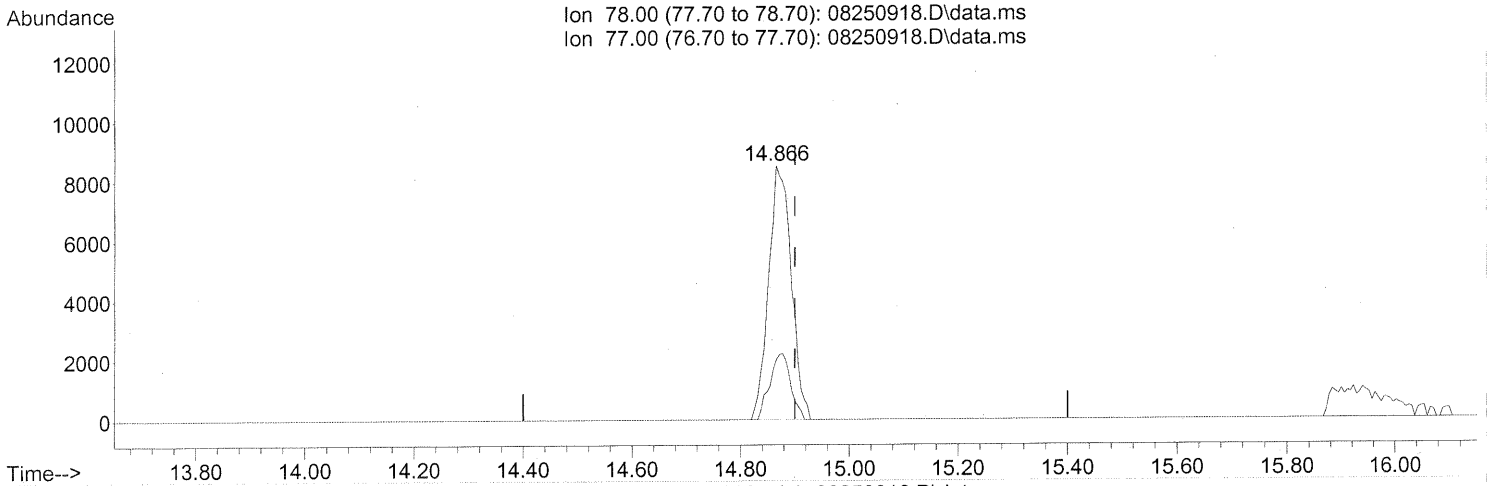
response 20211

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.866min (-0.034) 0.46ng

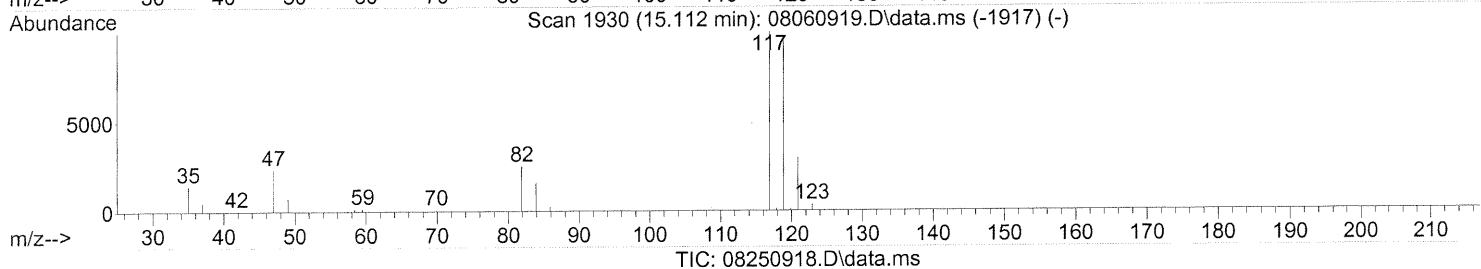
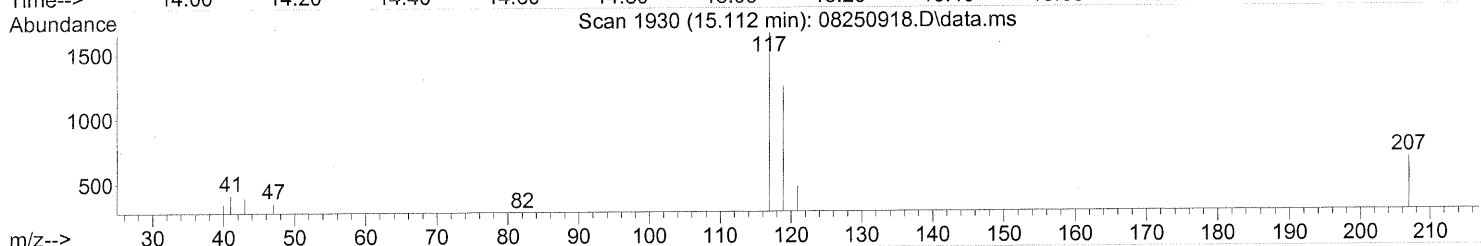
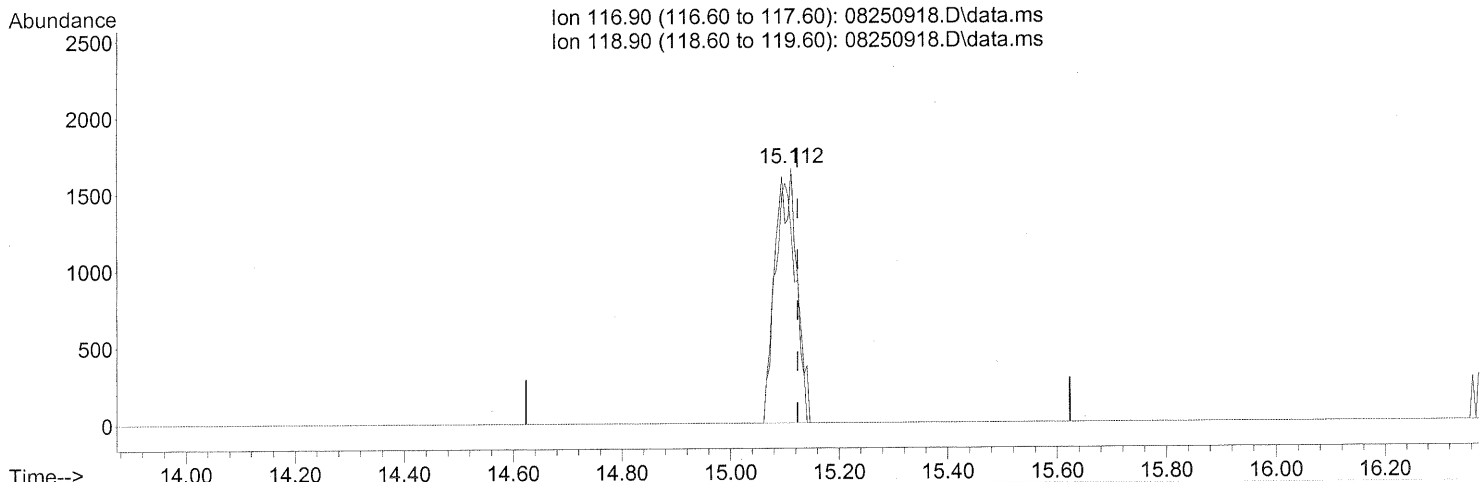
response 24629

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.112min (-0.011) 0.26ng

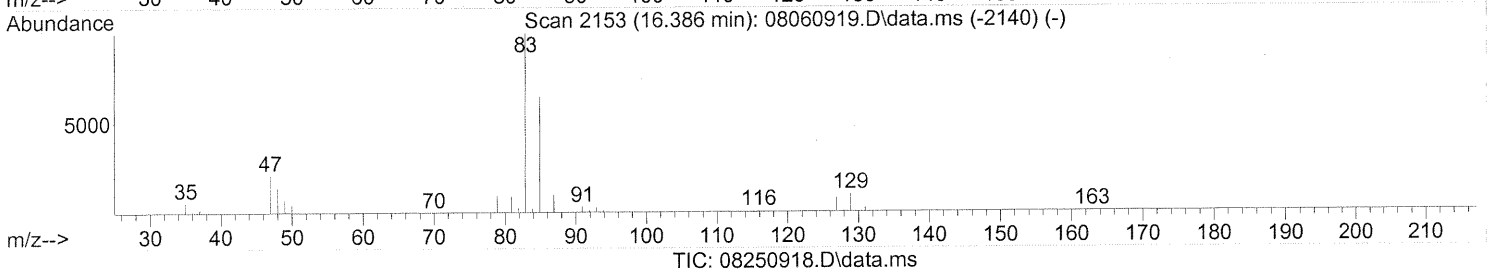
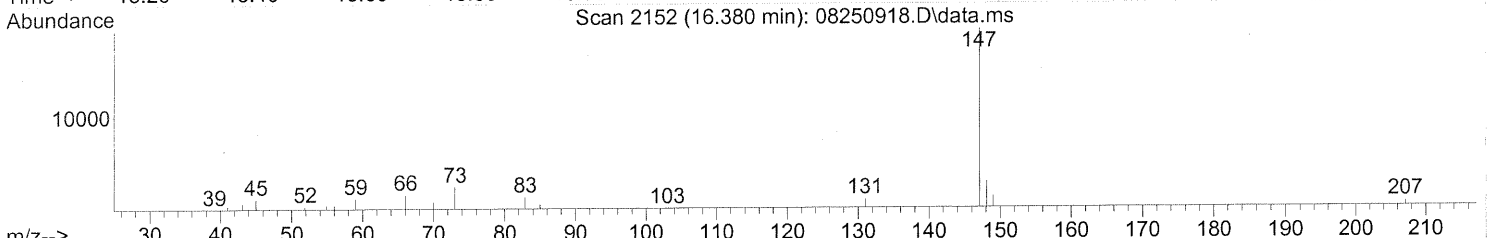
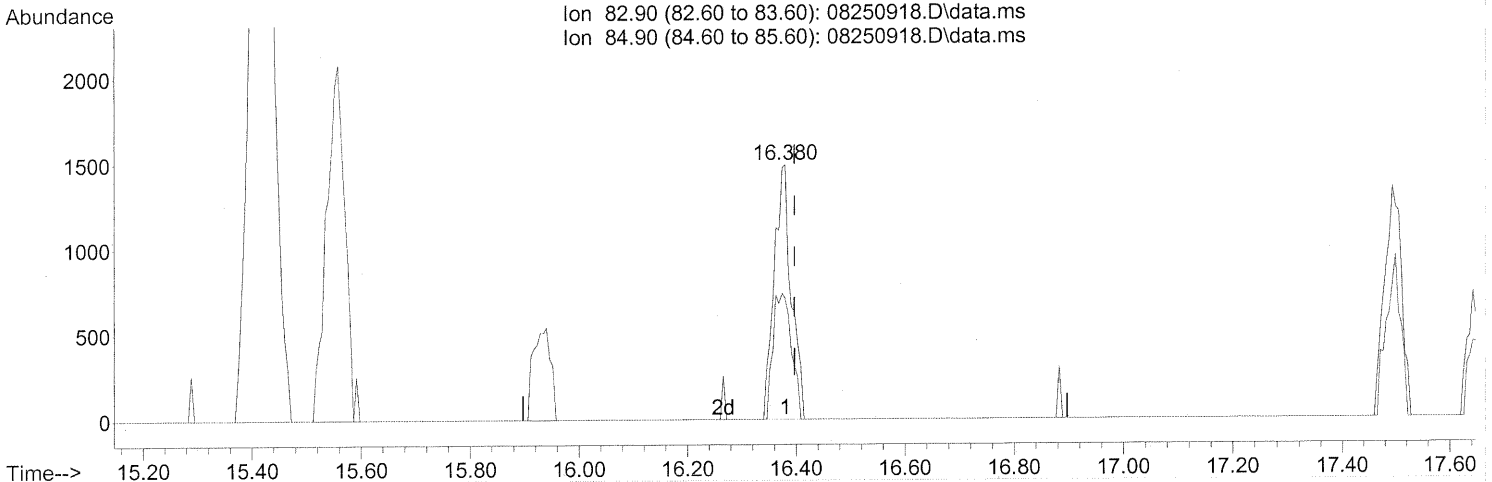
response 4502

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.18ng

response 3279

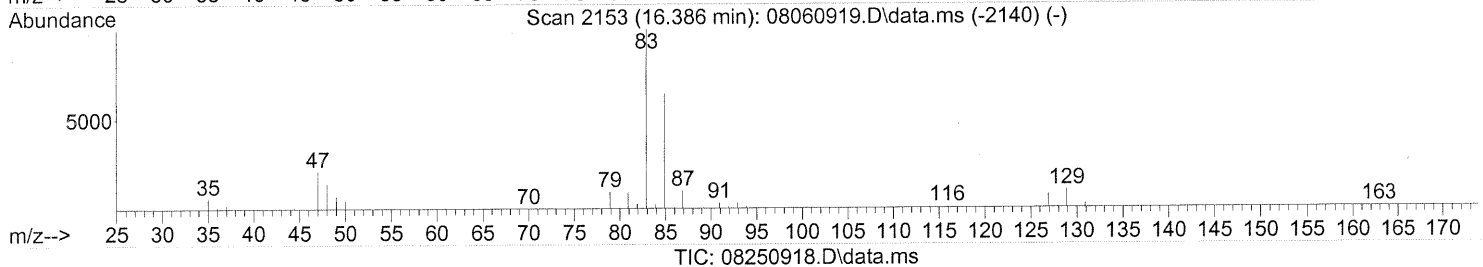
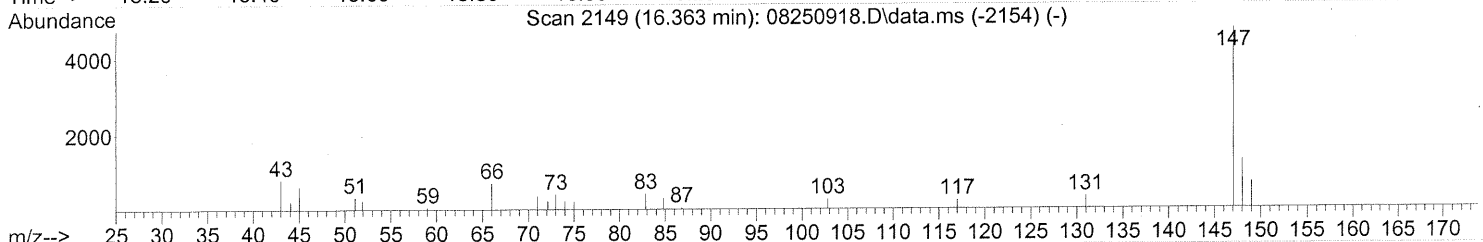
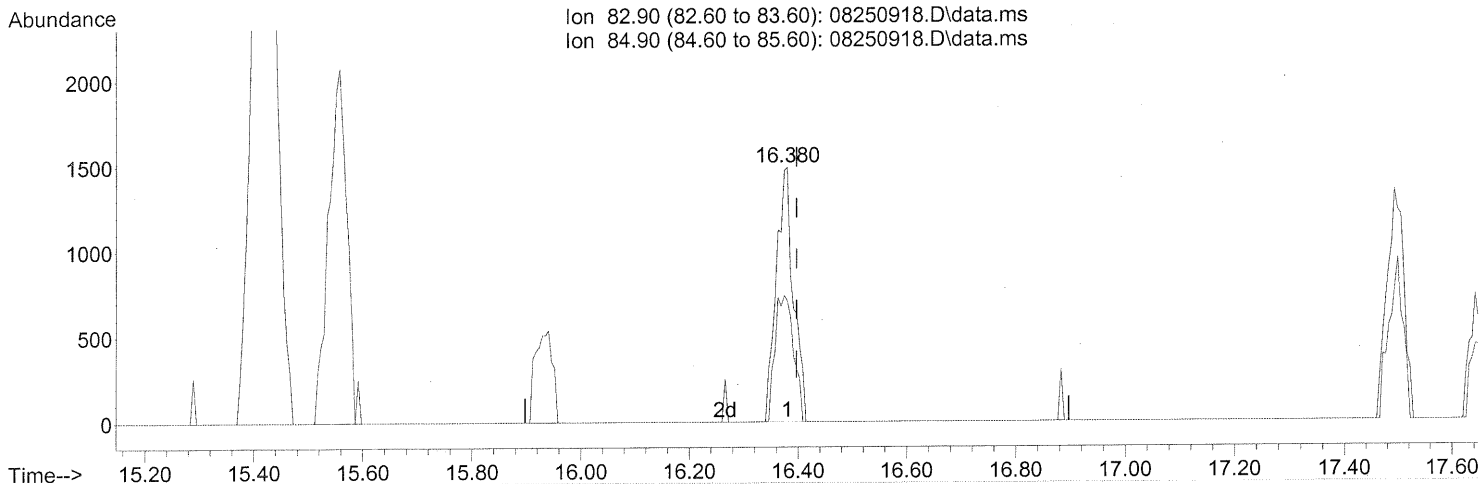
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	53.40
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.18ng

response 3279

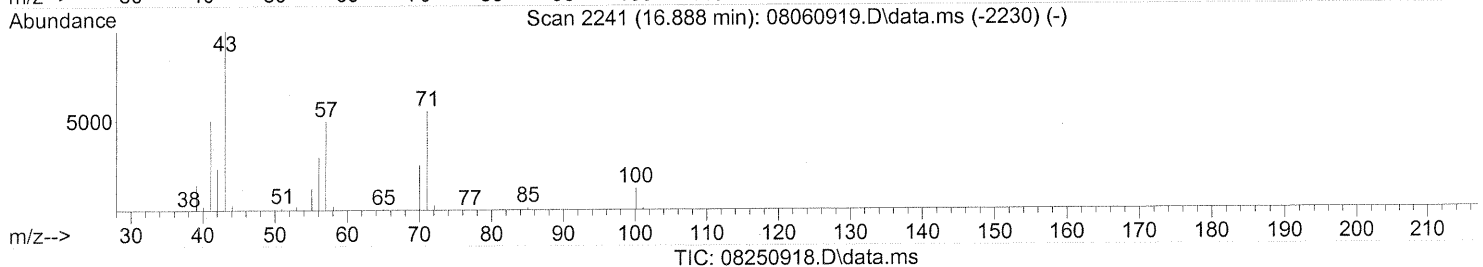
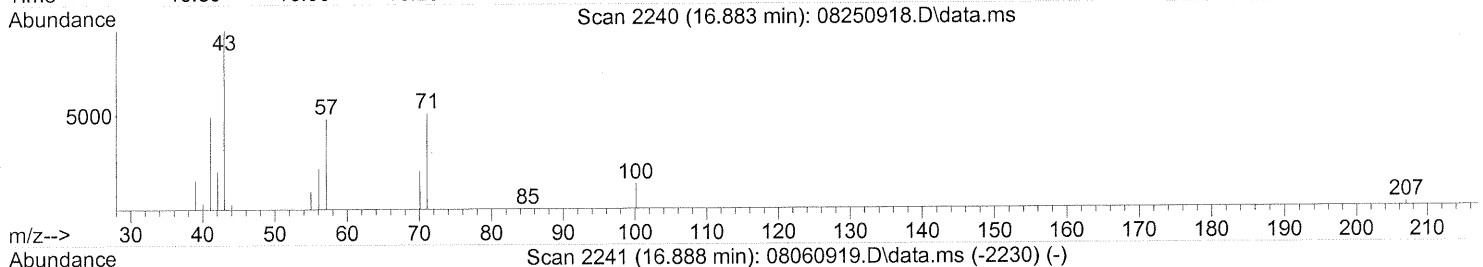
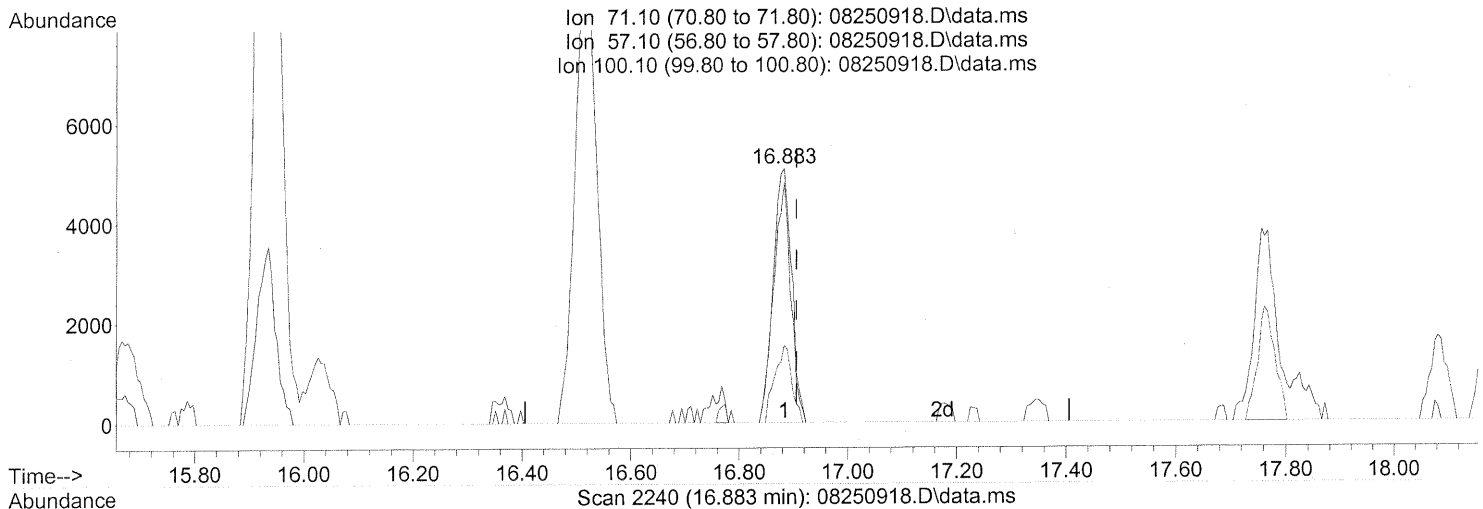
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	53.40
0.00	0.00	0.00
0.00	0.00	0.00

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(51) n-Heptane (T)

16.883min (-0.023) 0.82ng

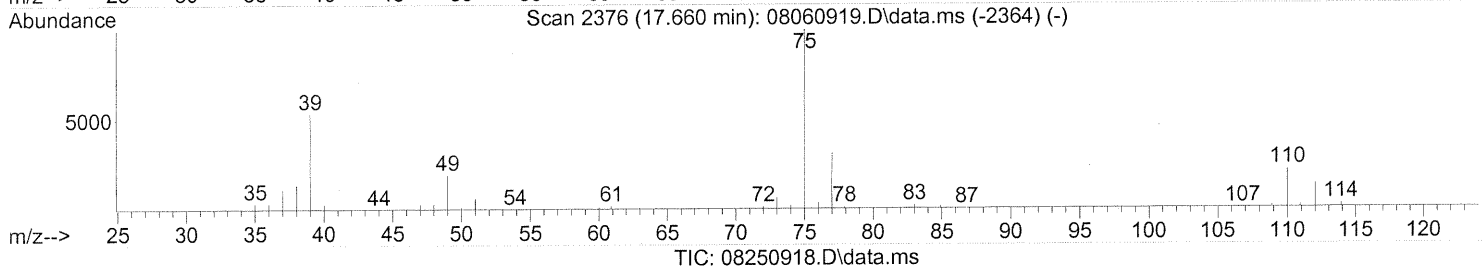
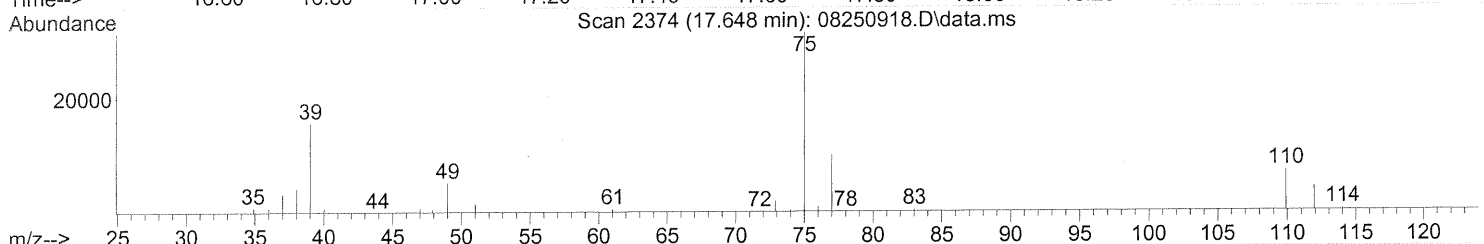
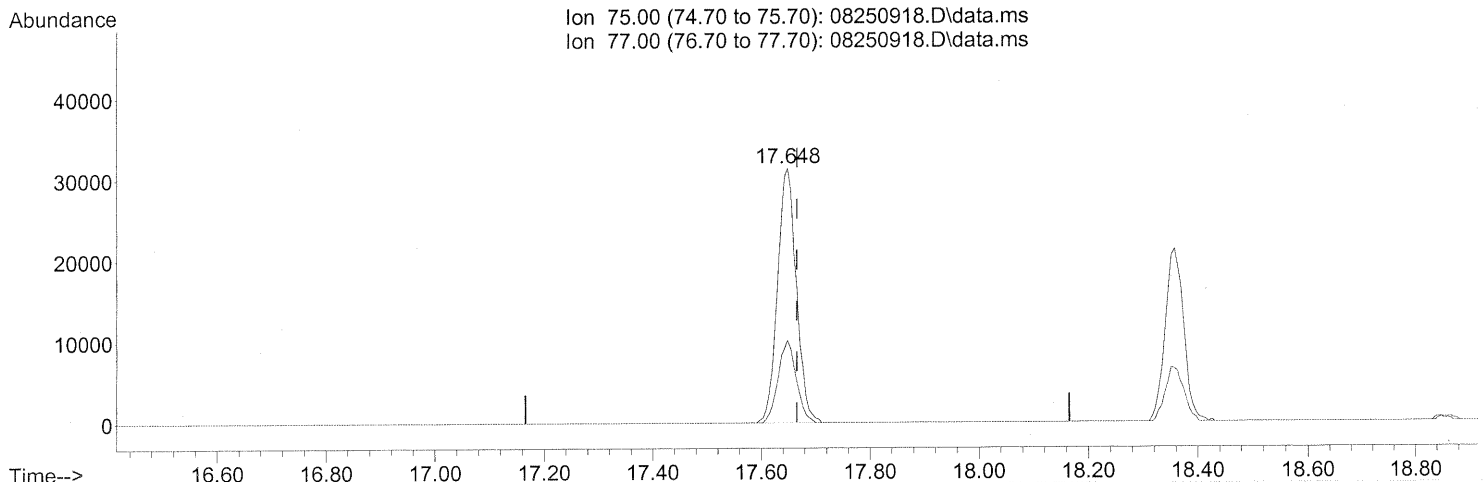
response 11919

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	89.79
100.10	26.40	28.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 3.33ng

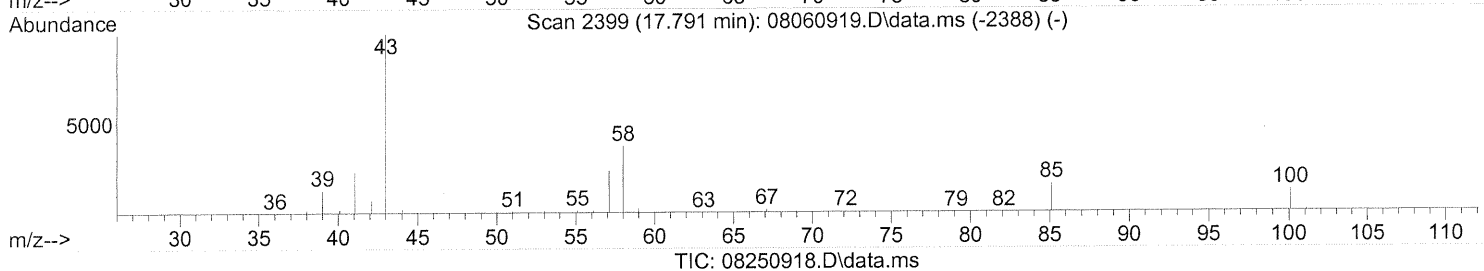
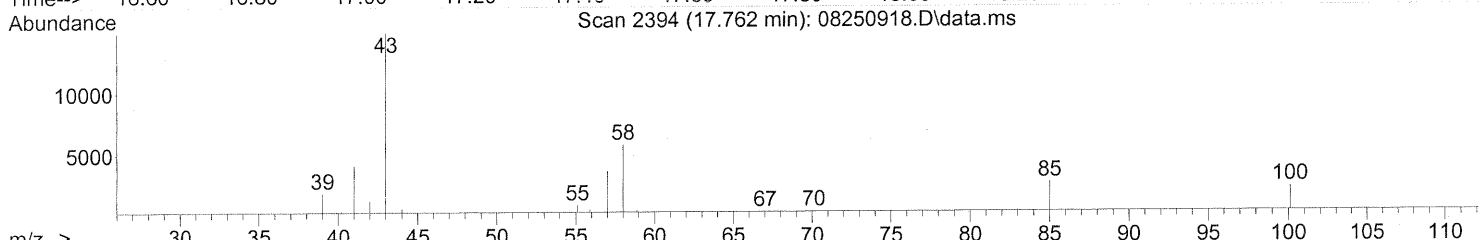
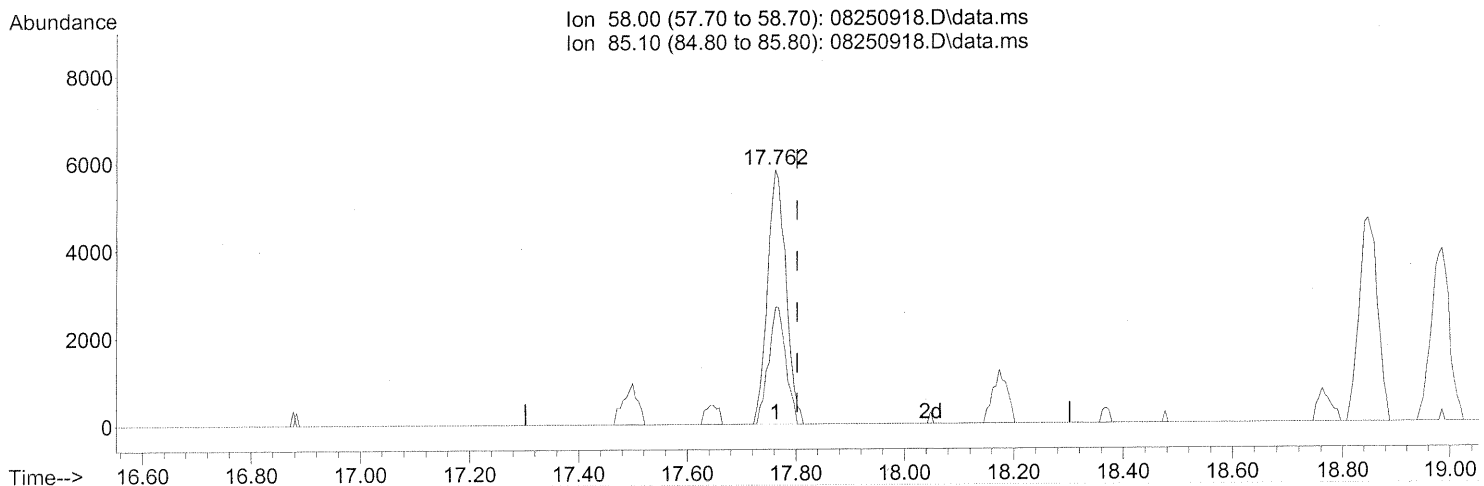
response 74832

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

17.762min (-0.040) 1.06ng

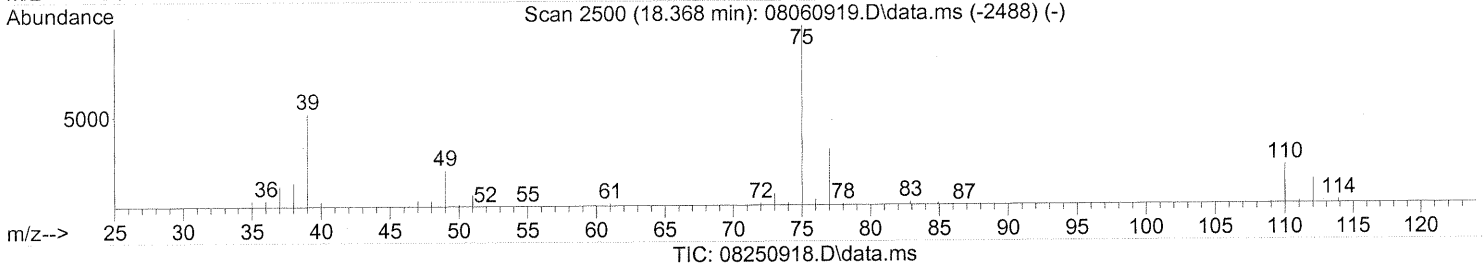
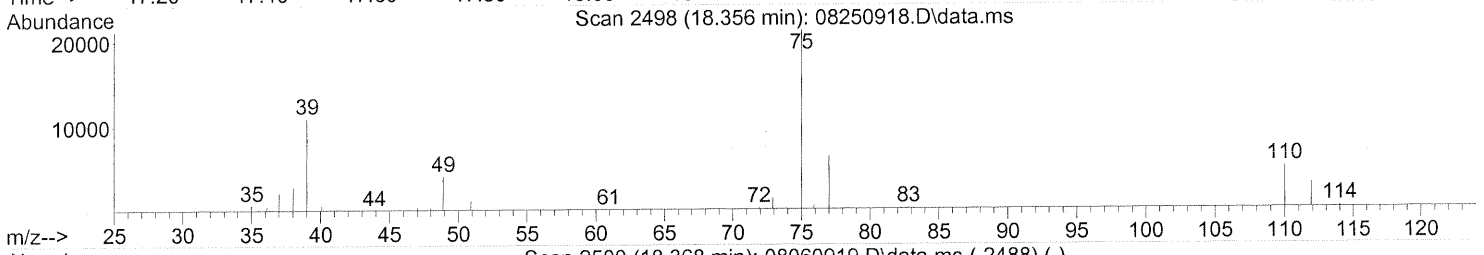
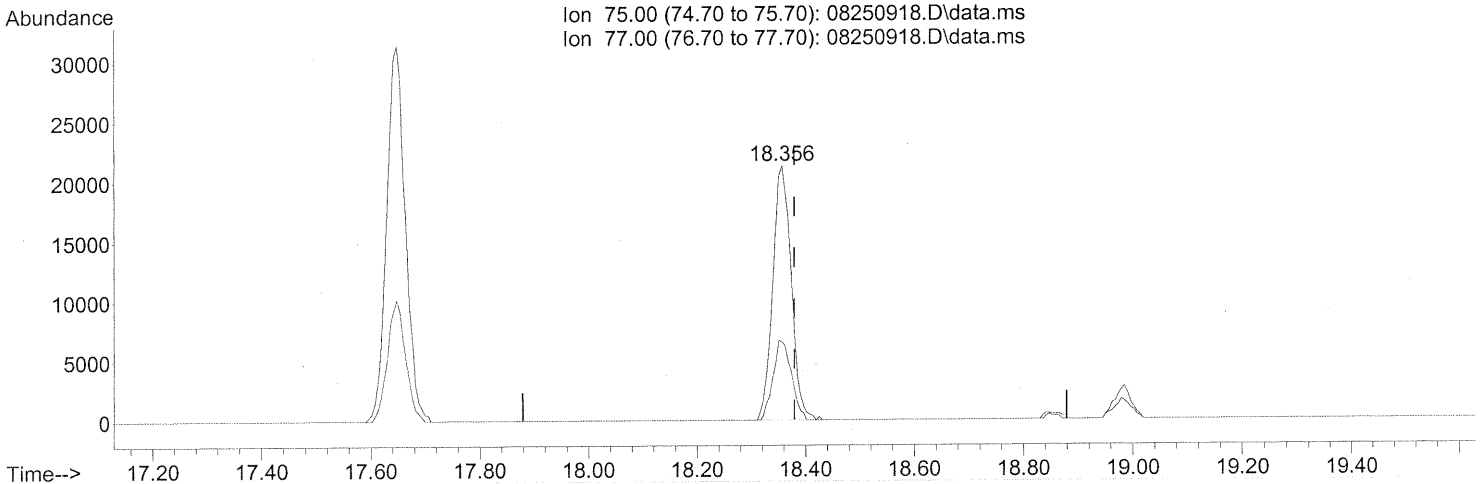
response 13752

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250918.D
Acq On : 25 Aug 2009 10:59 pm
Operator : WA/CC
Sample : P0902876-002 (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 2.35ng

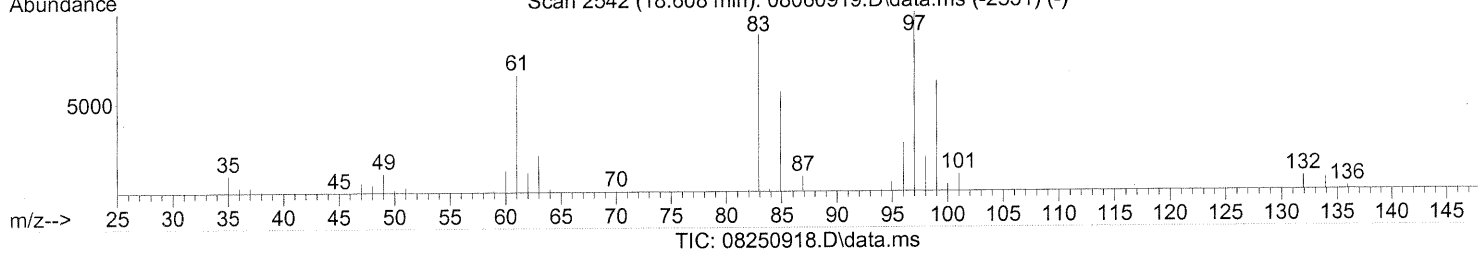
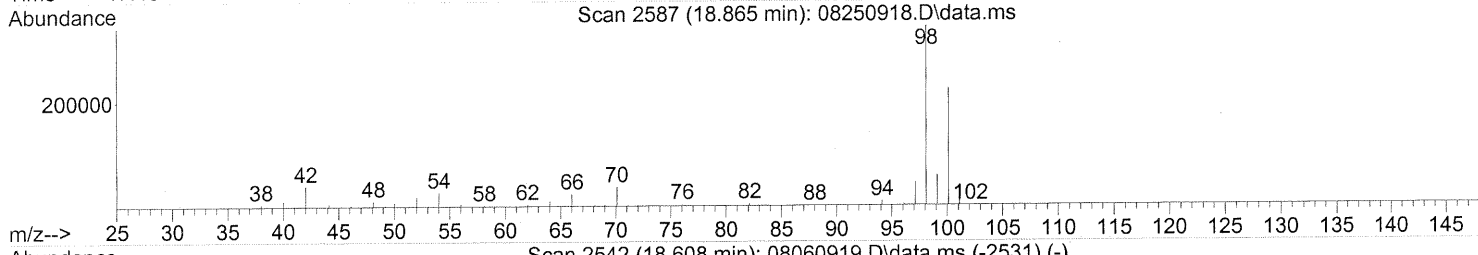
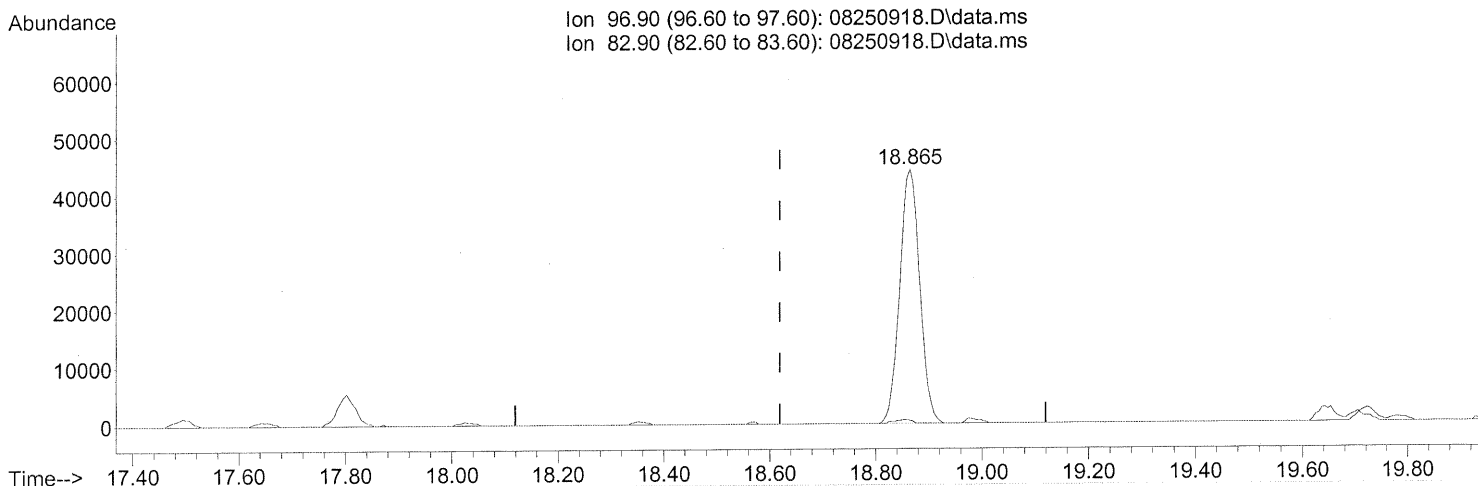
response 50168

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	31.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250918.D
Acq On : 25 Aug 2009 10:59 pm
Operator : WA/CC
Sample : P0902876-002 (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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

18.865min (+0.246) 9.72ng

response 115375

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.13#
0.00	0.00	0.00
0.00	0.00	0.00

FP

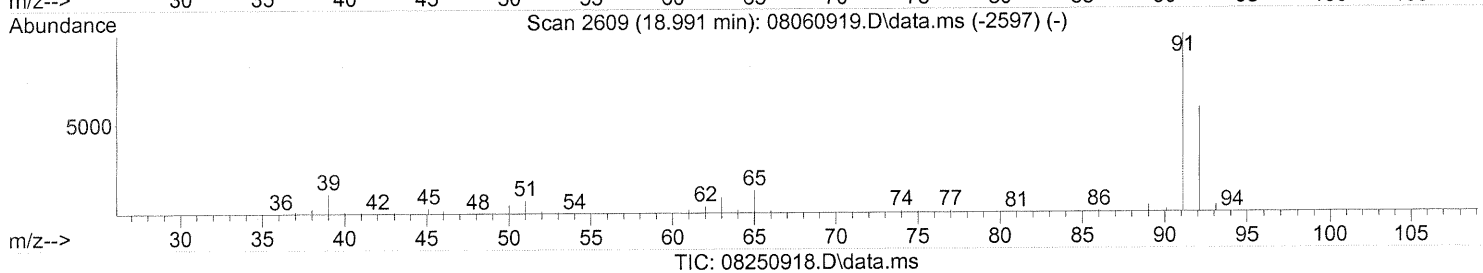
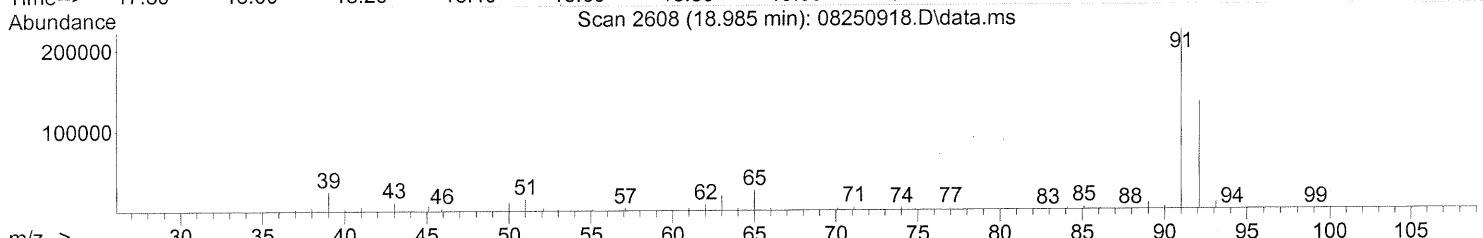
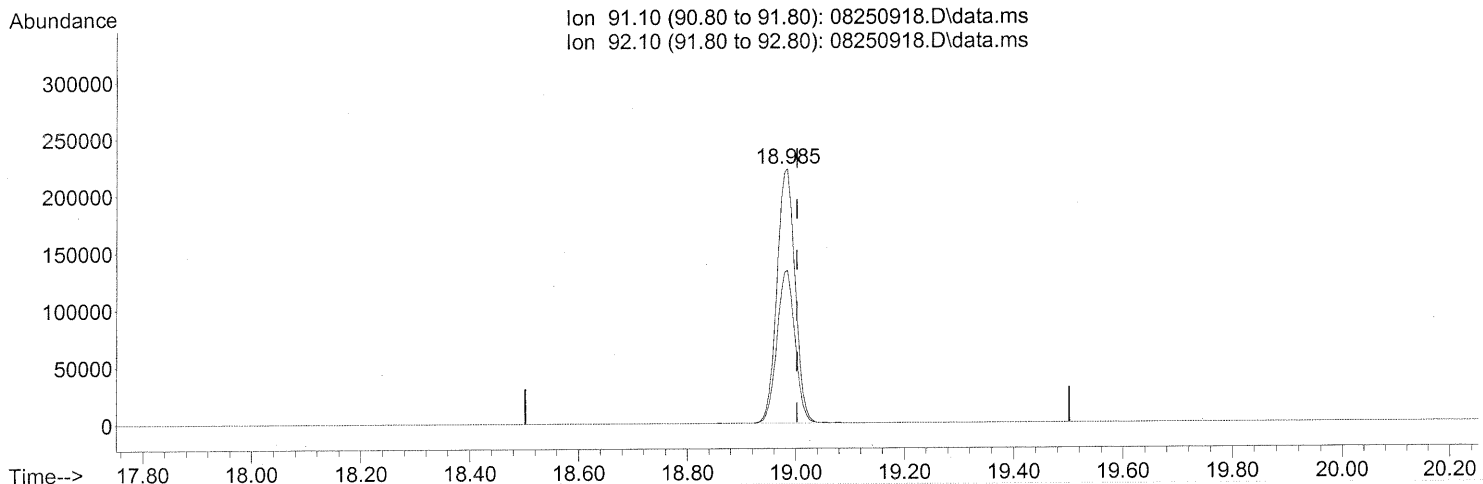
11/8/31/09

9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



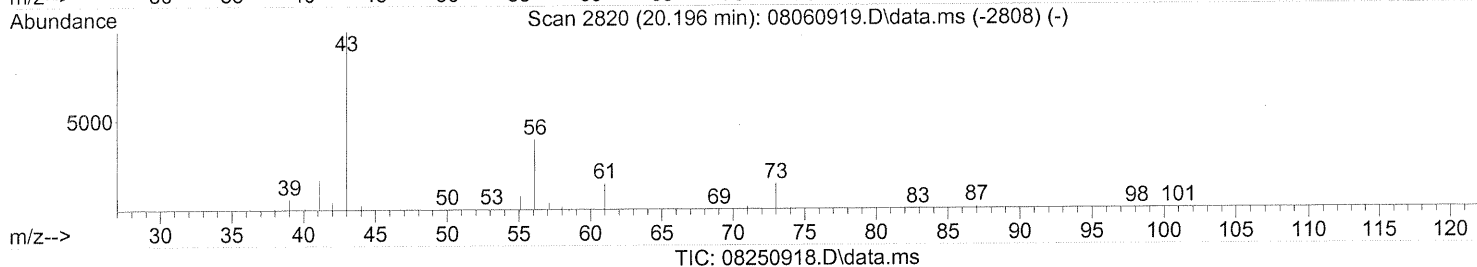
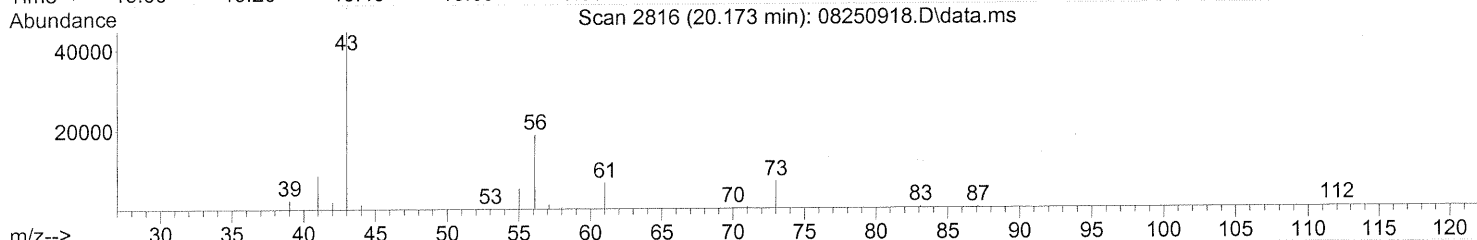
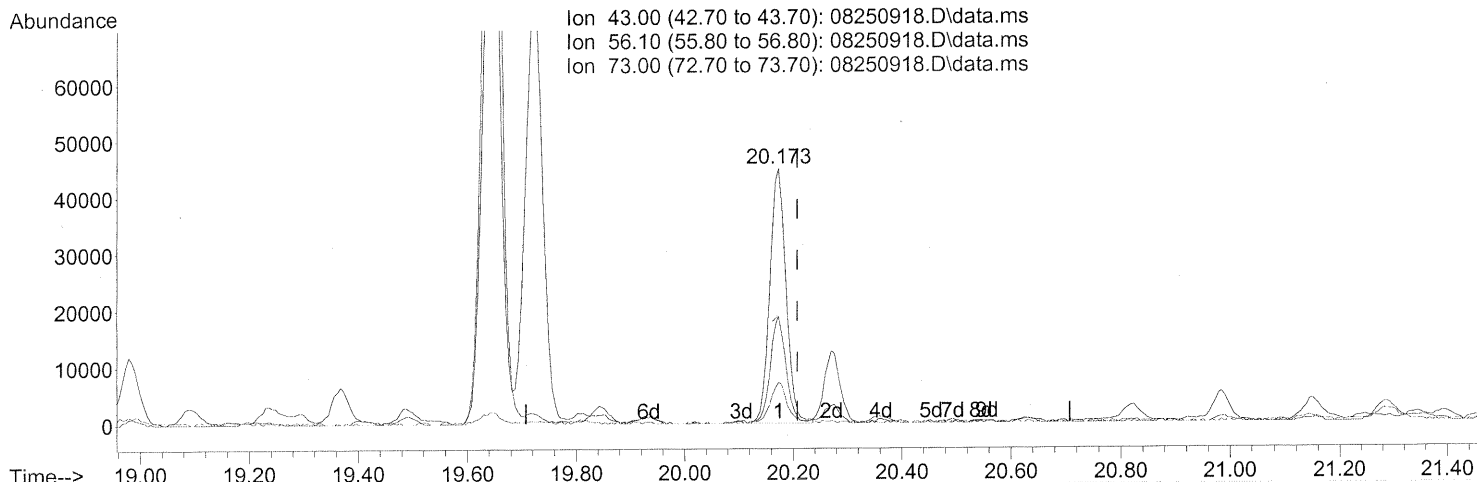
(58) Toluene (T)
 18.985min (-0.017) 10.19ng
 response 515769

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.173min (-0.034) 2.37ng

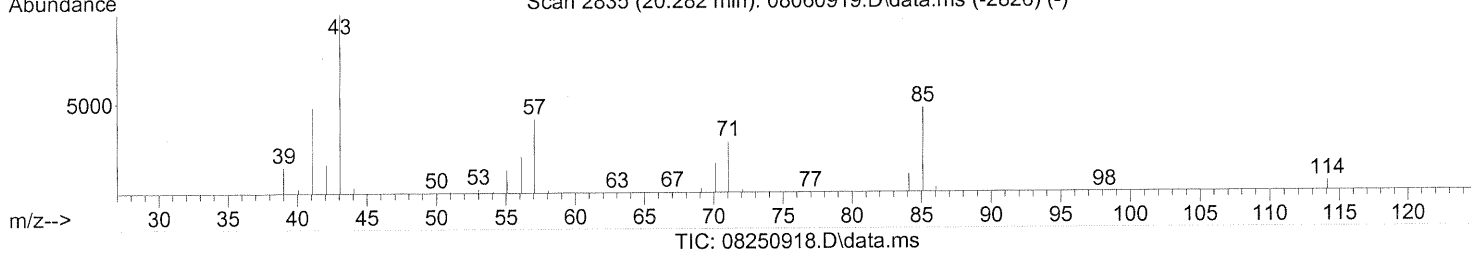
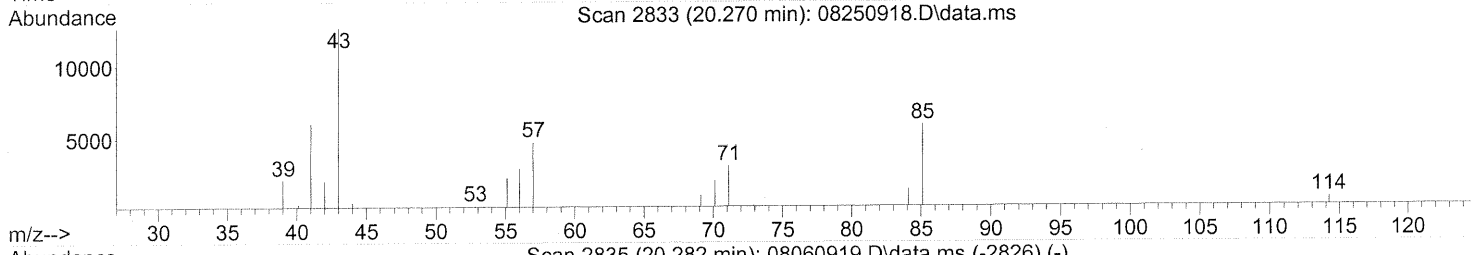
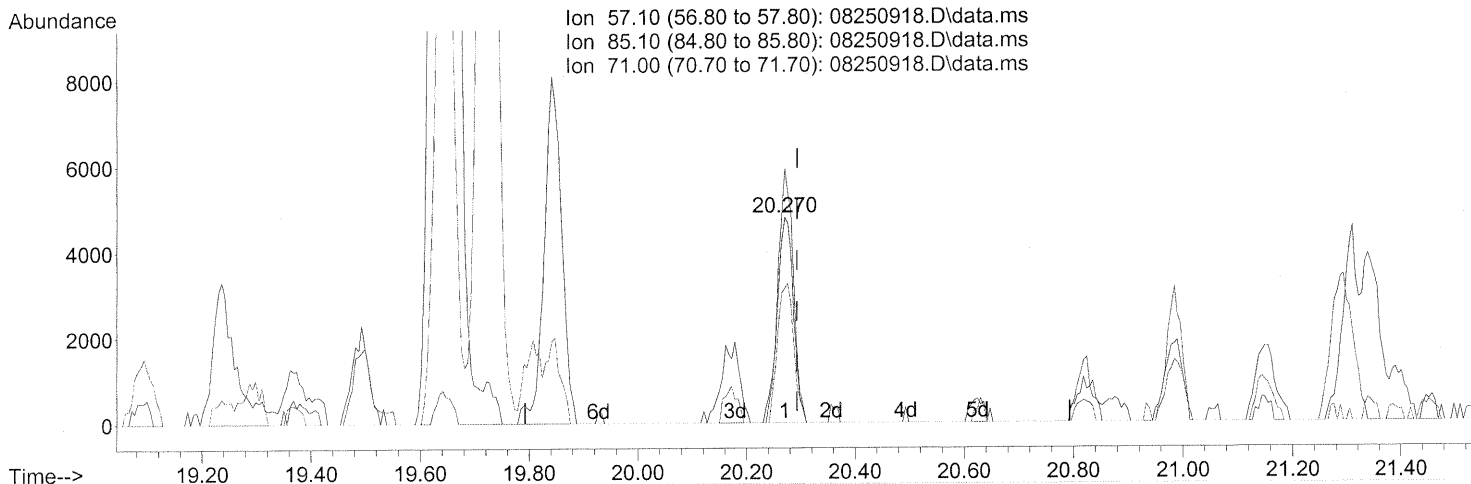
response 93908

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.72
73.00	14.80	16.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.270min (-0.023) 0.82ng

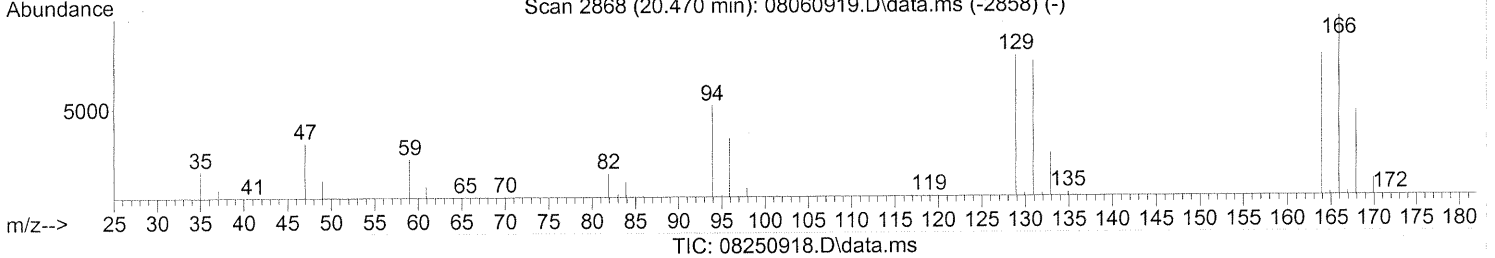
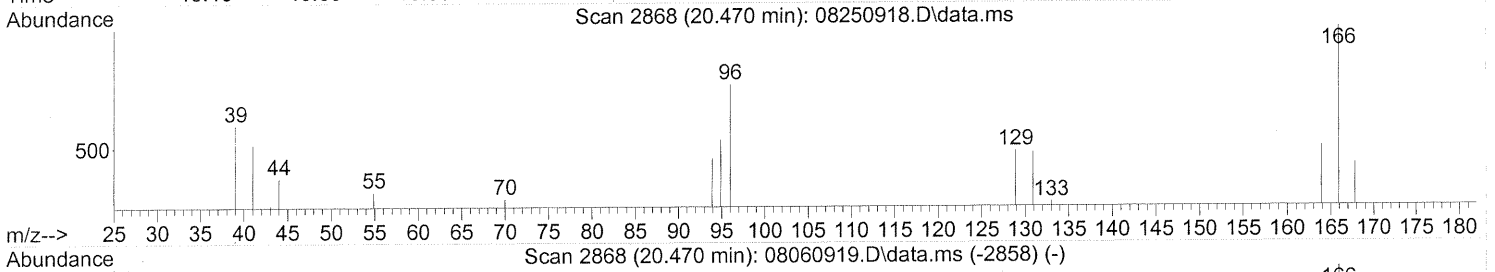
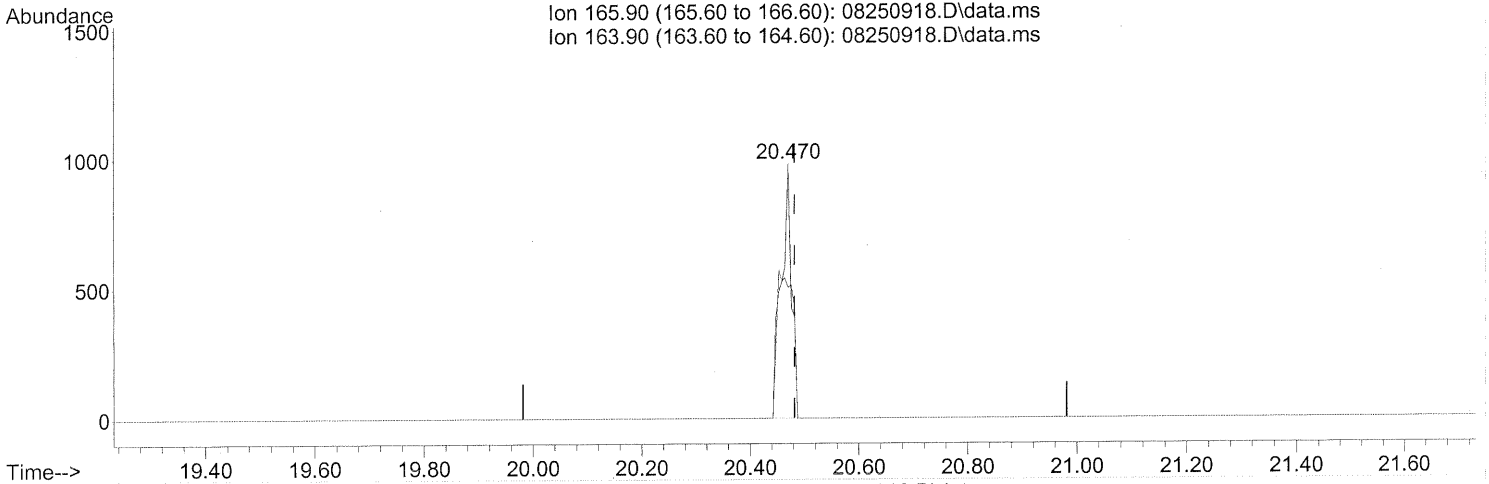
response 10020

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	116.18
71.00	68.10	67.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.11ng

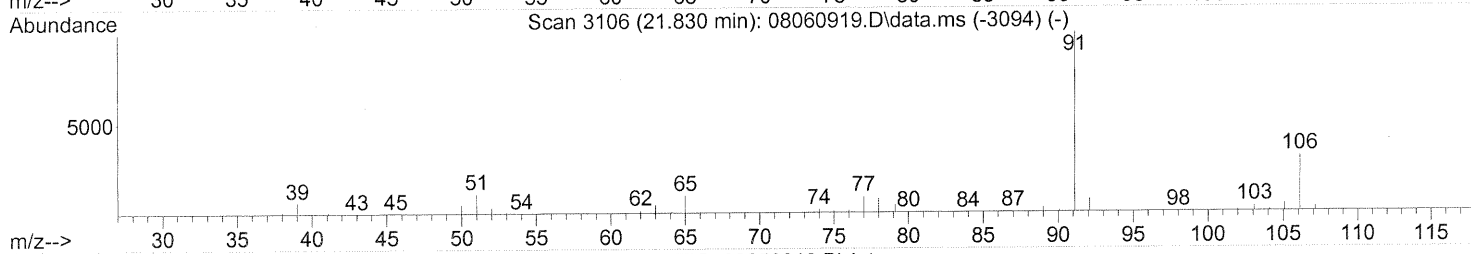
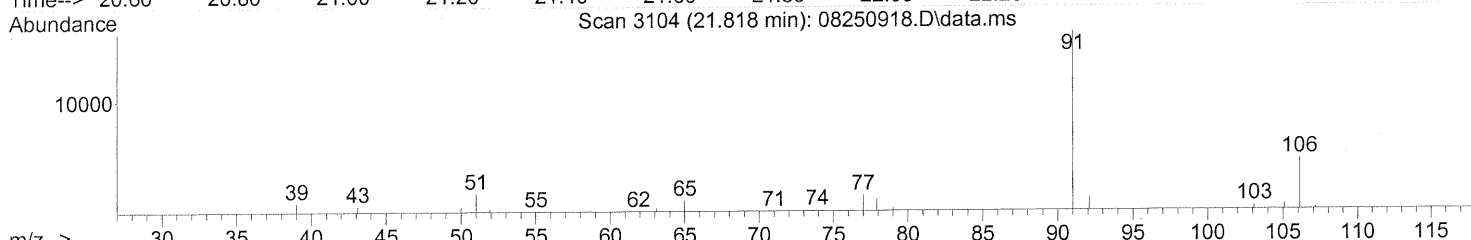
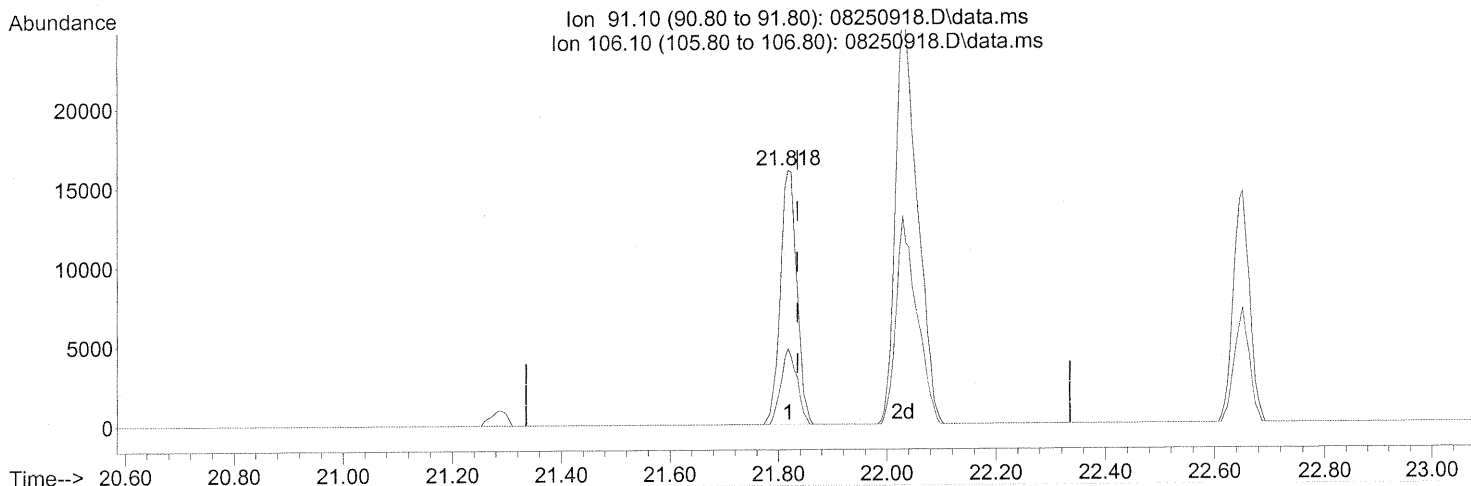
response 1291

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	88.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250918.D\data.ms

(66) Ethylbenzene (T)

21.818min (-0.017) 0.58ng

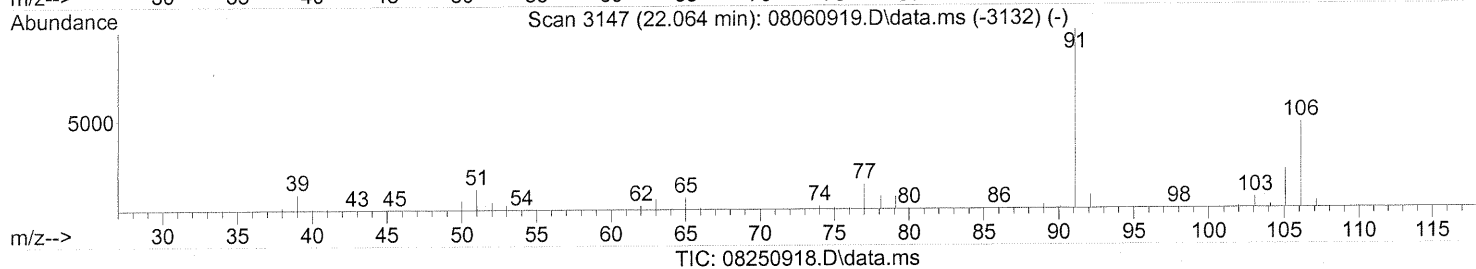
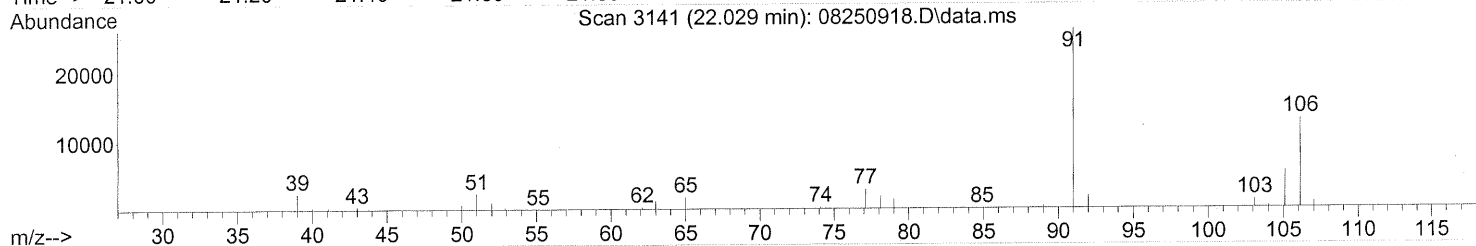
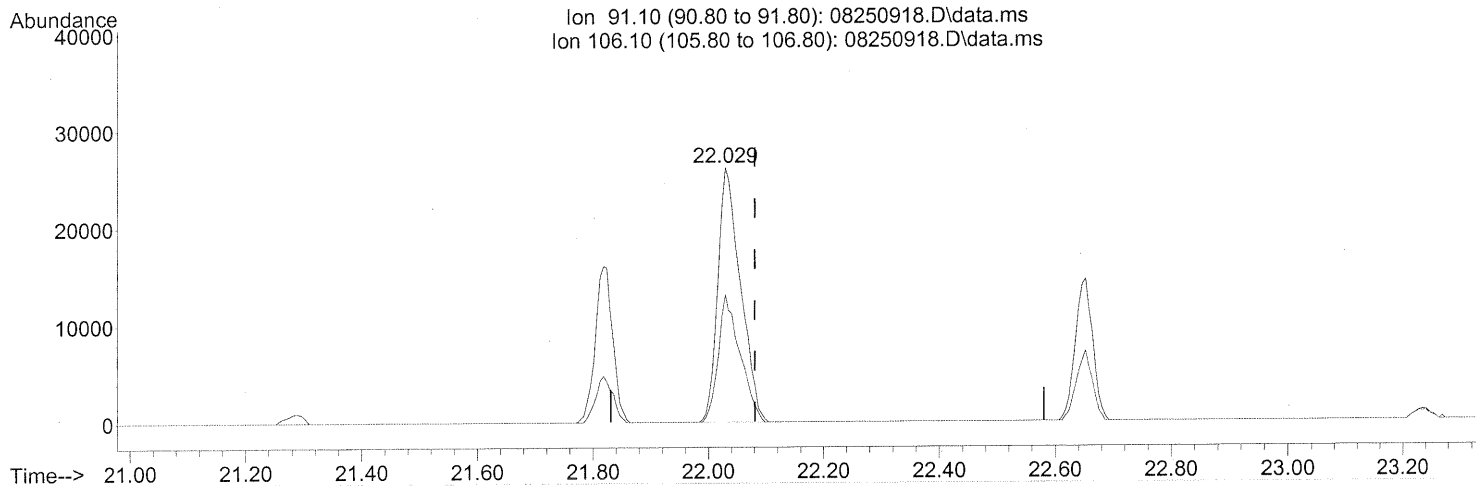
response 33746

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	28.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

22.029min (-0.051) 1.53ng

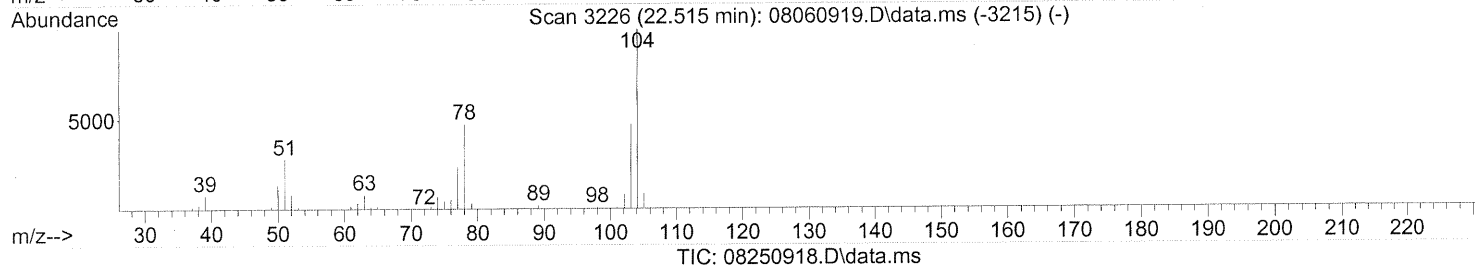
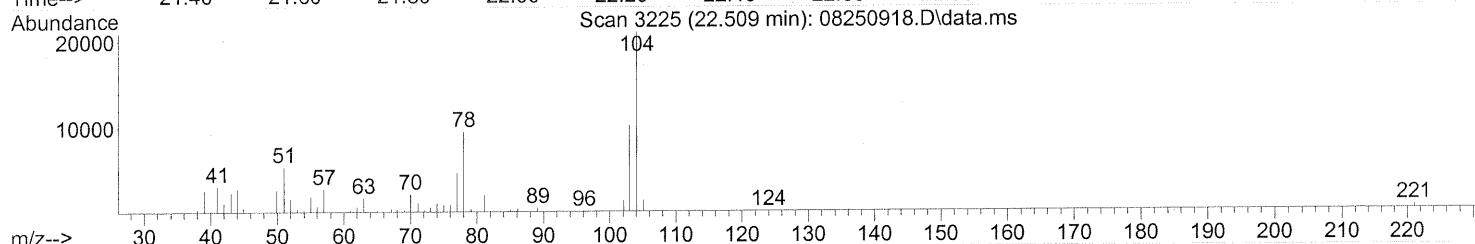
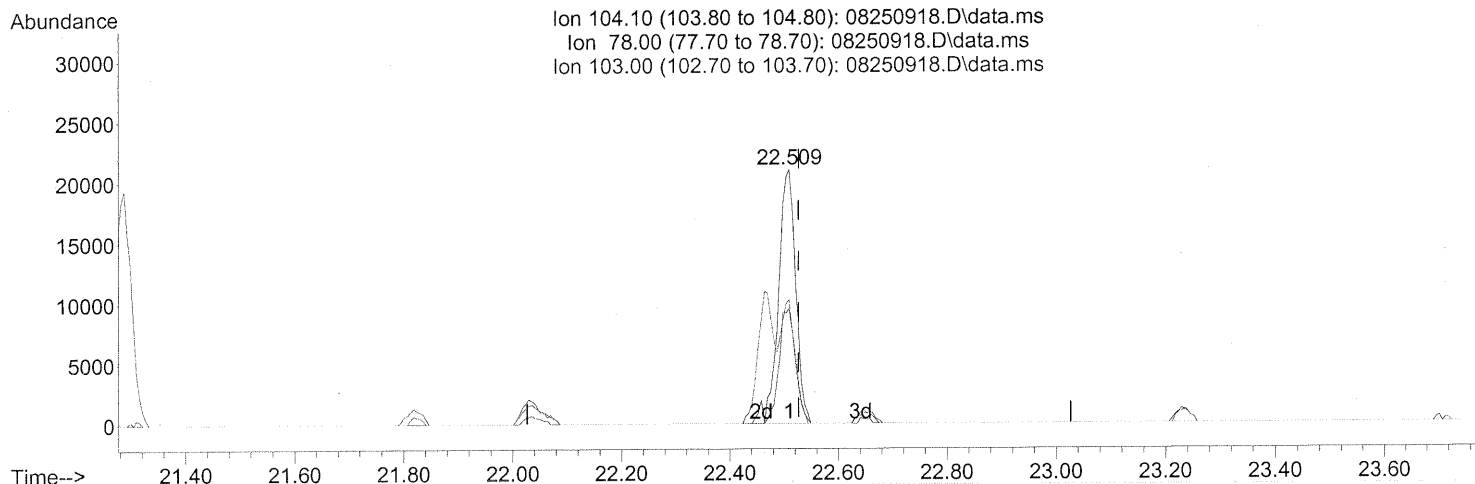
response 71621

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(69) Styrene (T)

22.509min (-0.017) 1.34ng

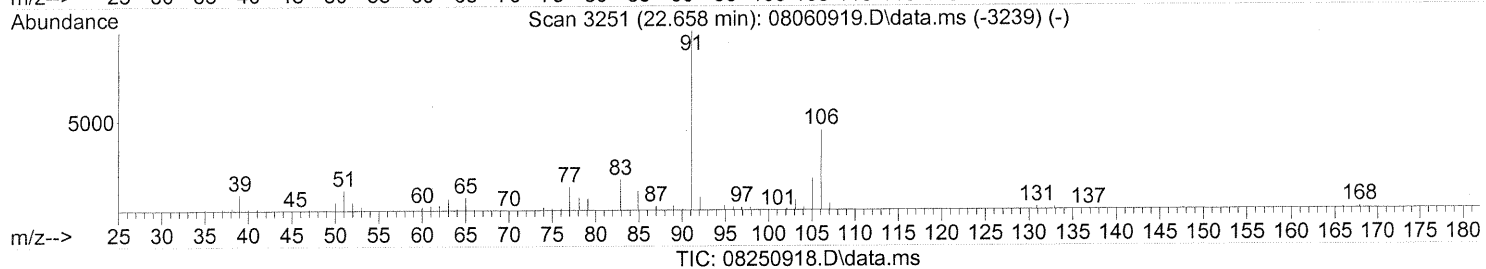
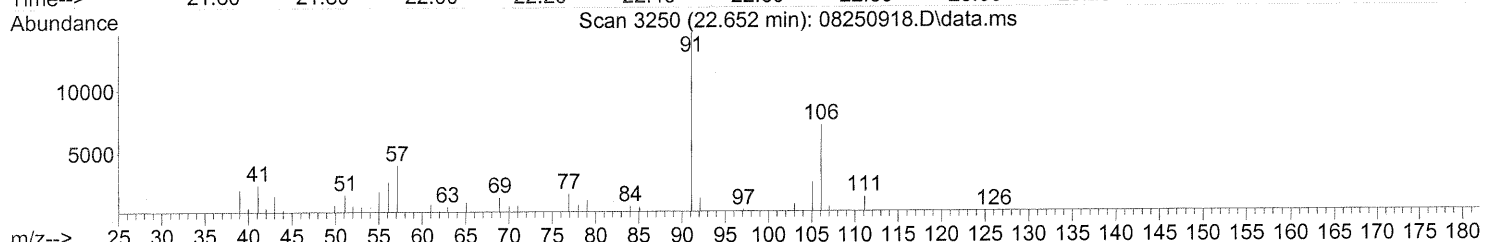
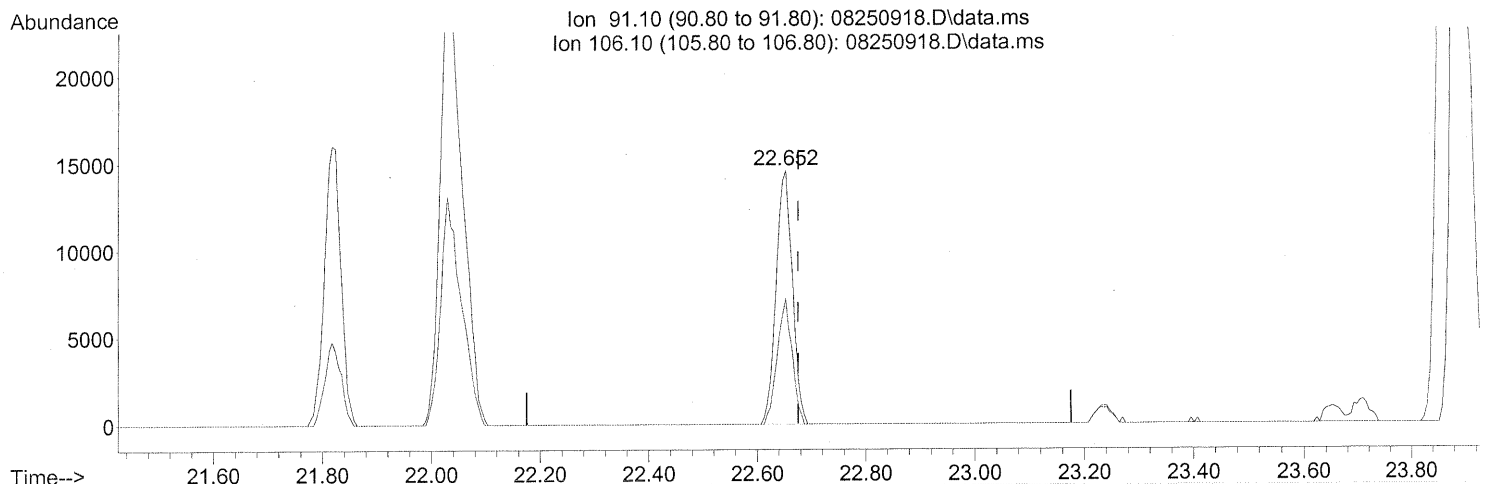
response 45312

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	43.81
103.00	46.20	41.60
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.652min (-0.023) 0.64ng

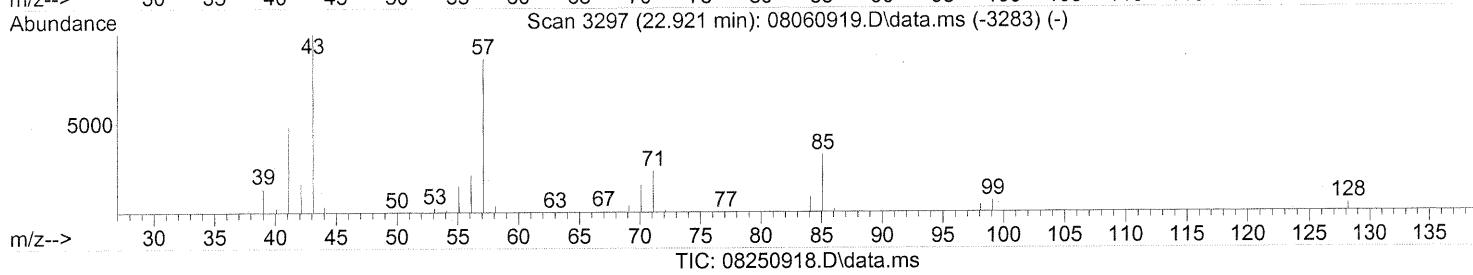
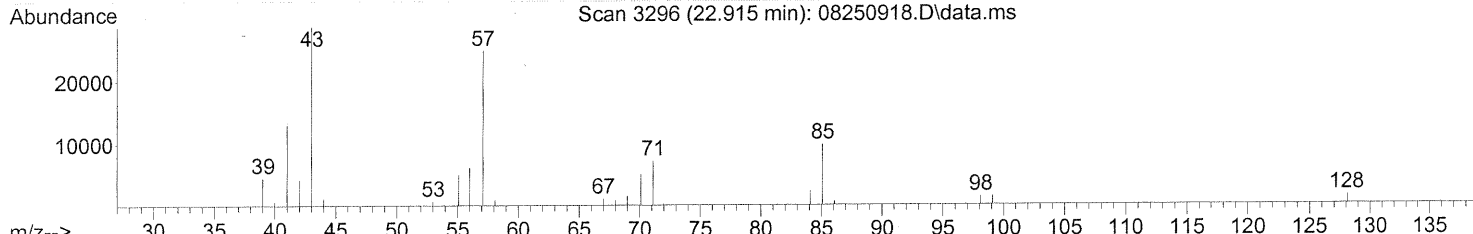
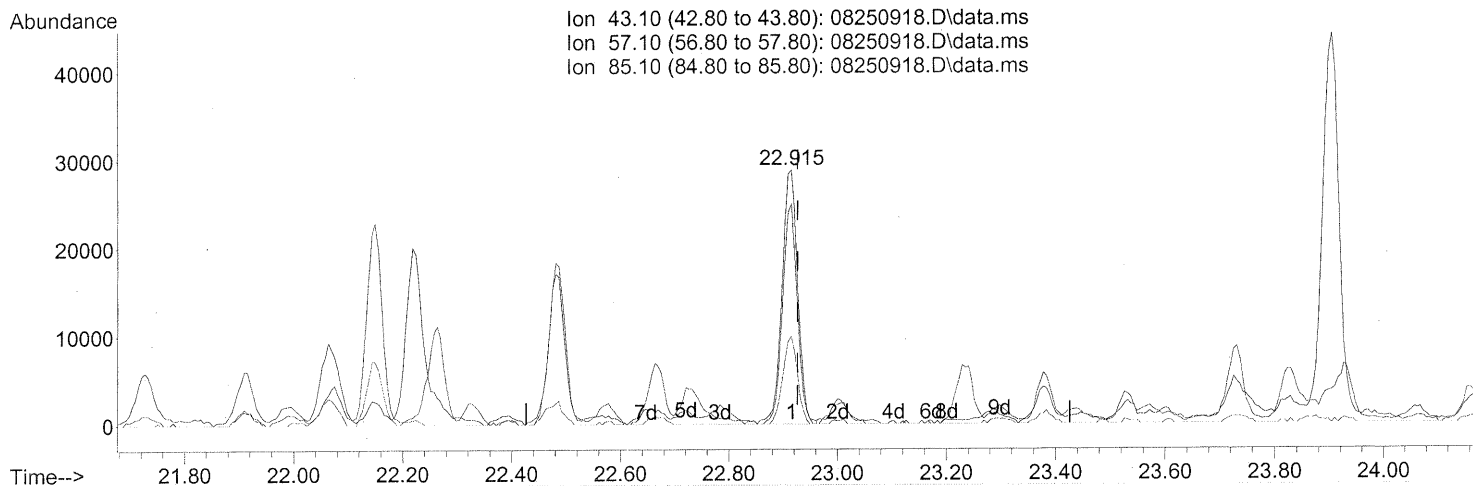
response 30247

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



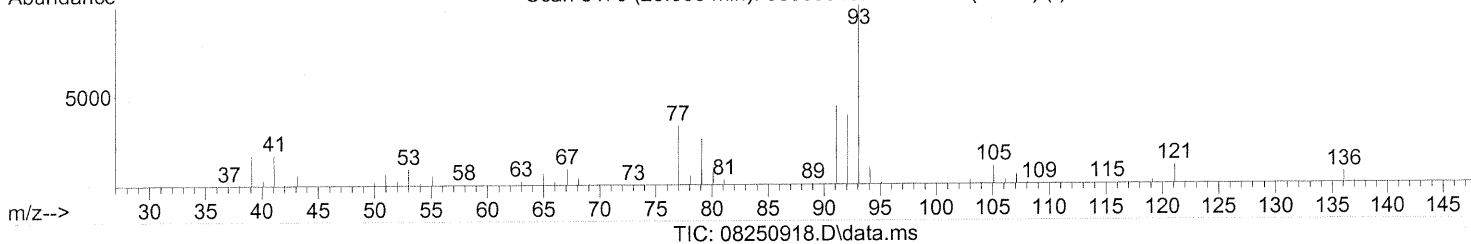
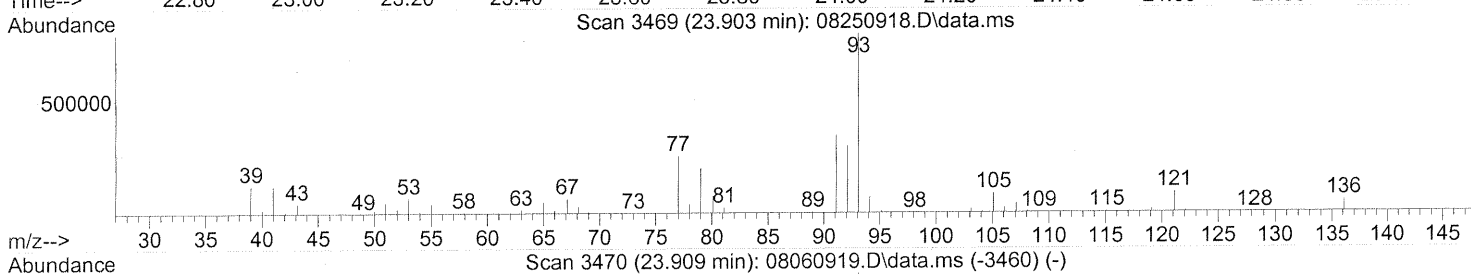
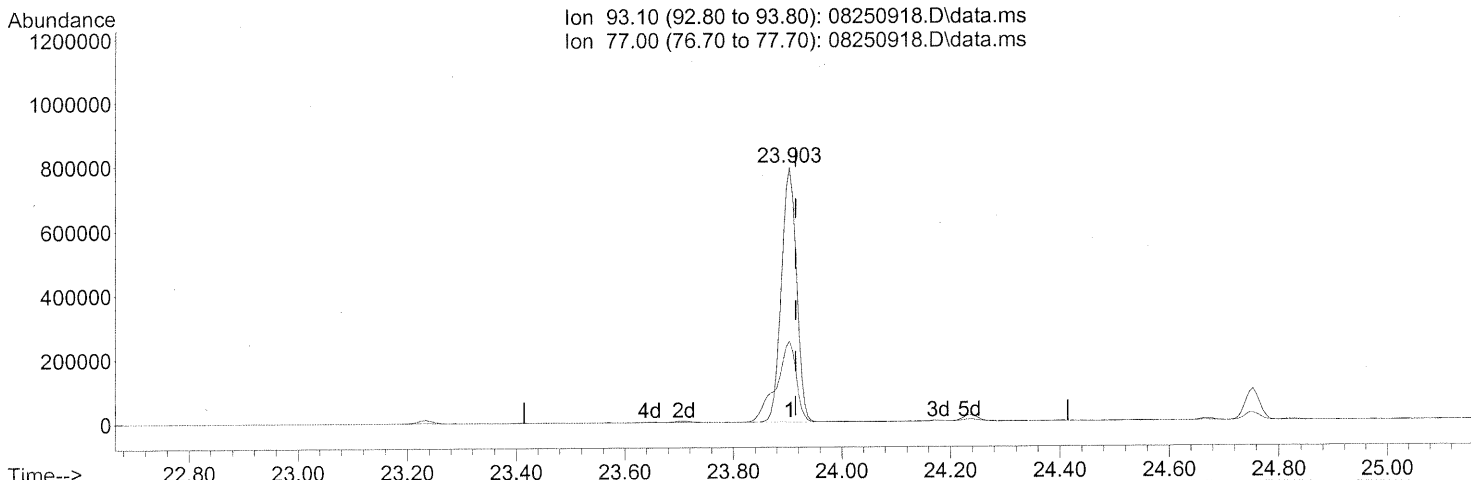
(71) n-Nonane (T)
 22.915min (-0.011) 1.87ng
 response 58267

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	81.21
85.10	30.40	32.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



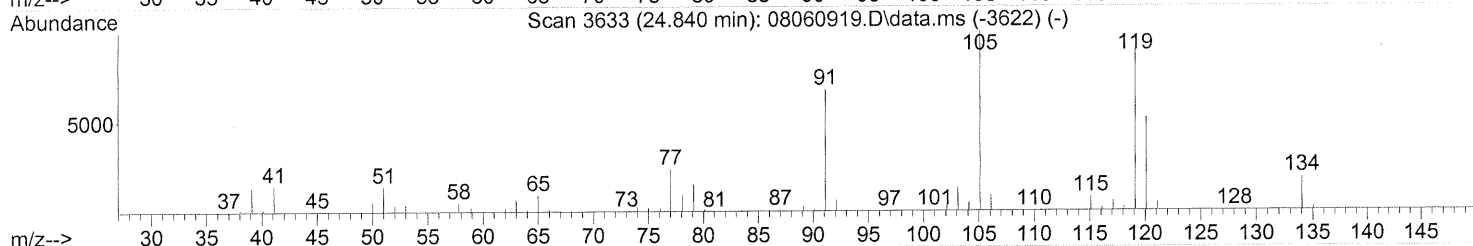
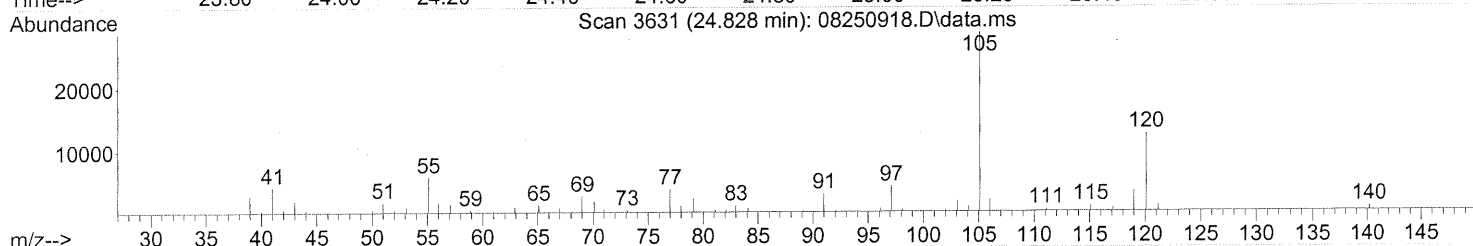
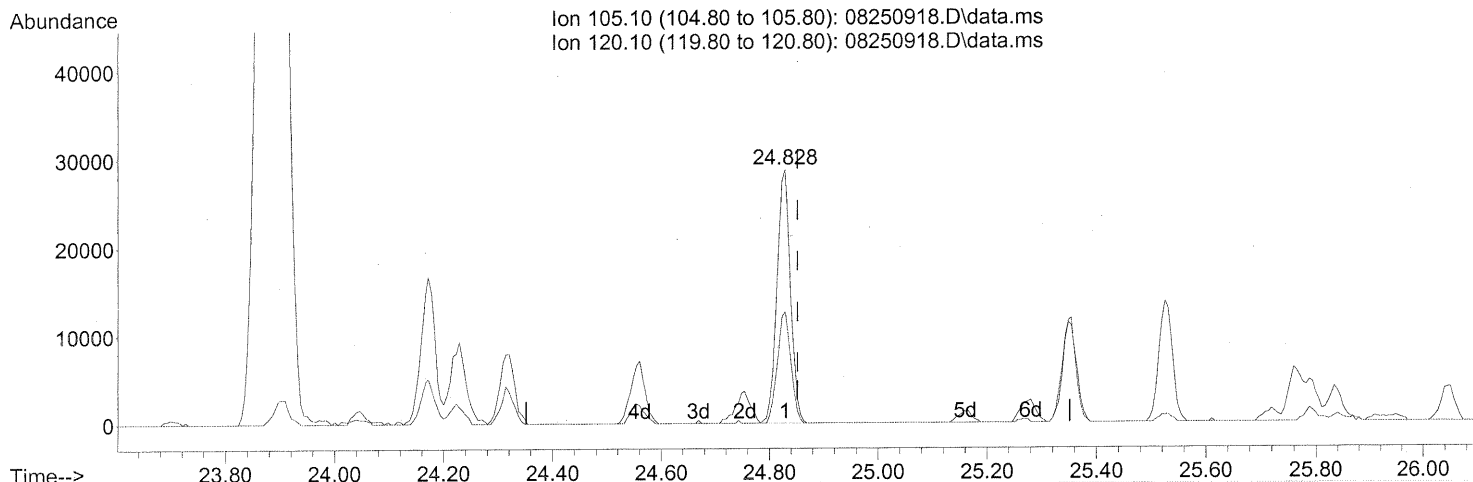
(75) alpha-Pinene (T)
 23.903min (-0.011) 50.59ng
 response 1537313

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	42.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250918.D
Acq On : 25 Aug 2009 10:59 pm
Operator : WA/CC
Sample : P0902876-002 (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250918.D\data.ms

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

24.828min (-0.023) 1.06ng

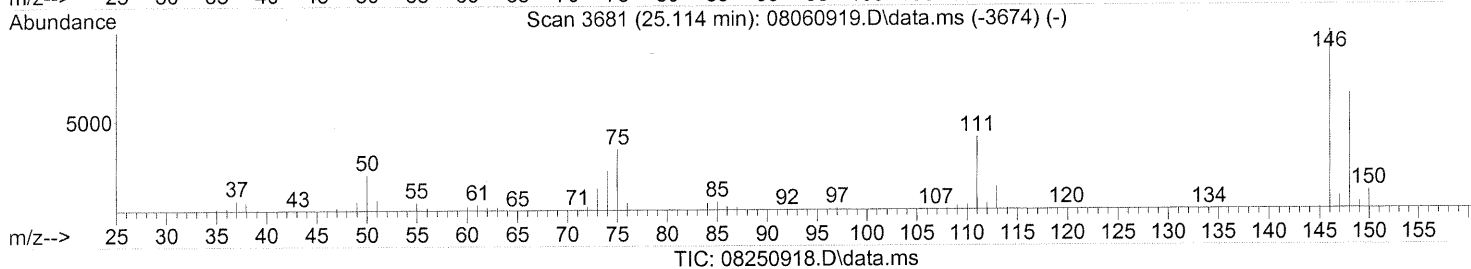
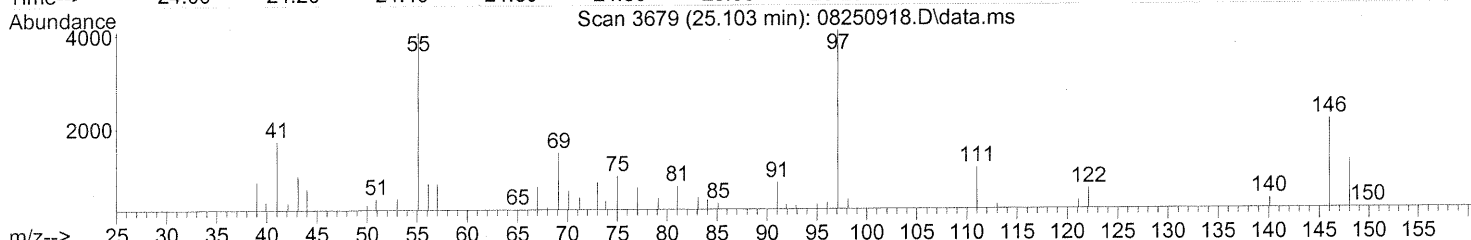
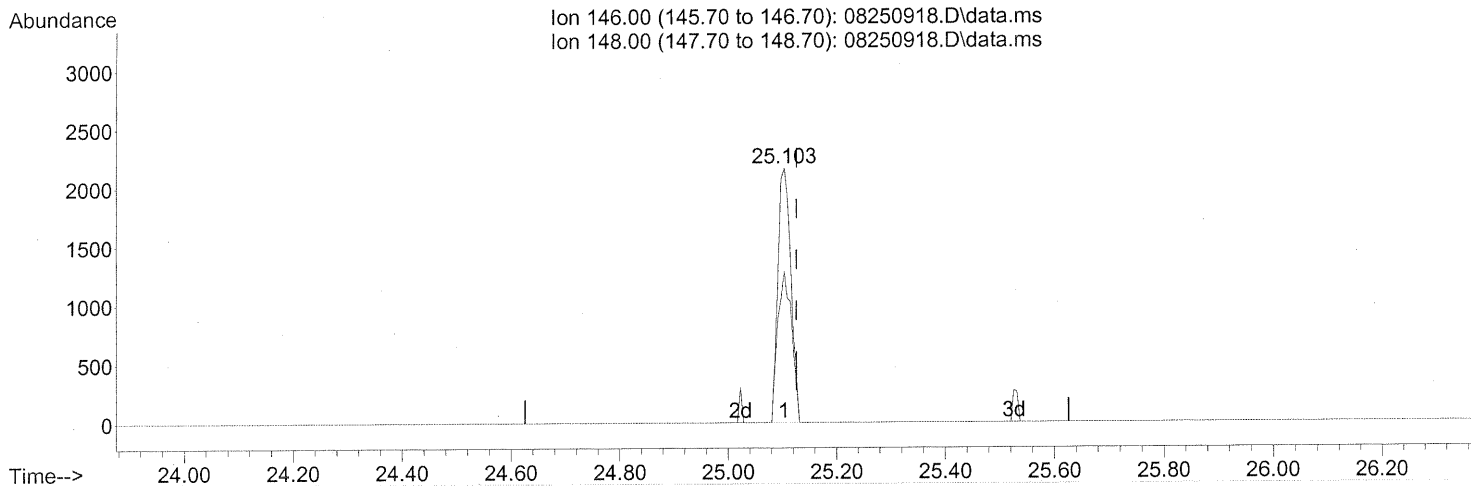
response 49864

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	43.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.14ng

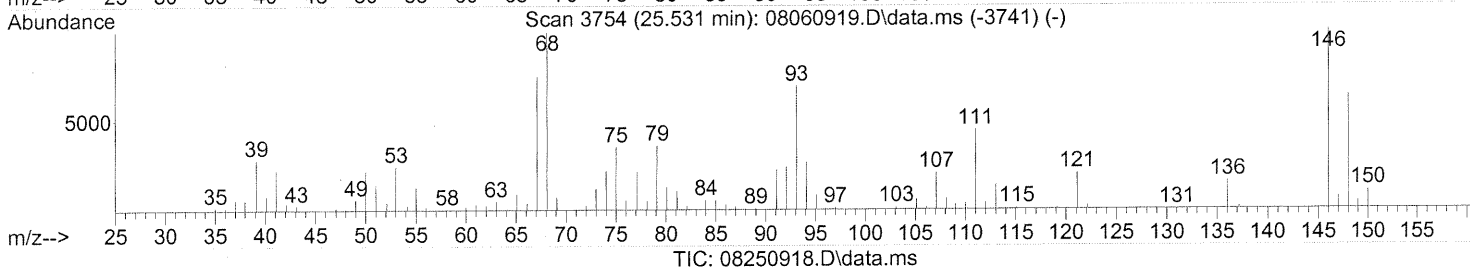
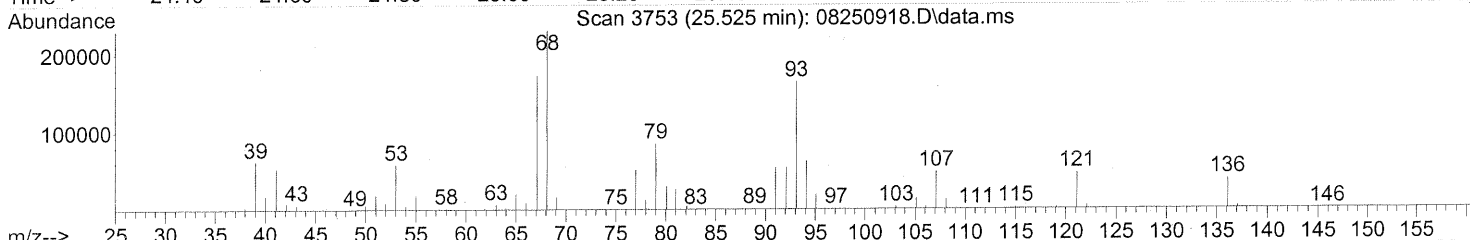
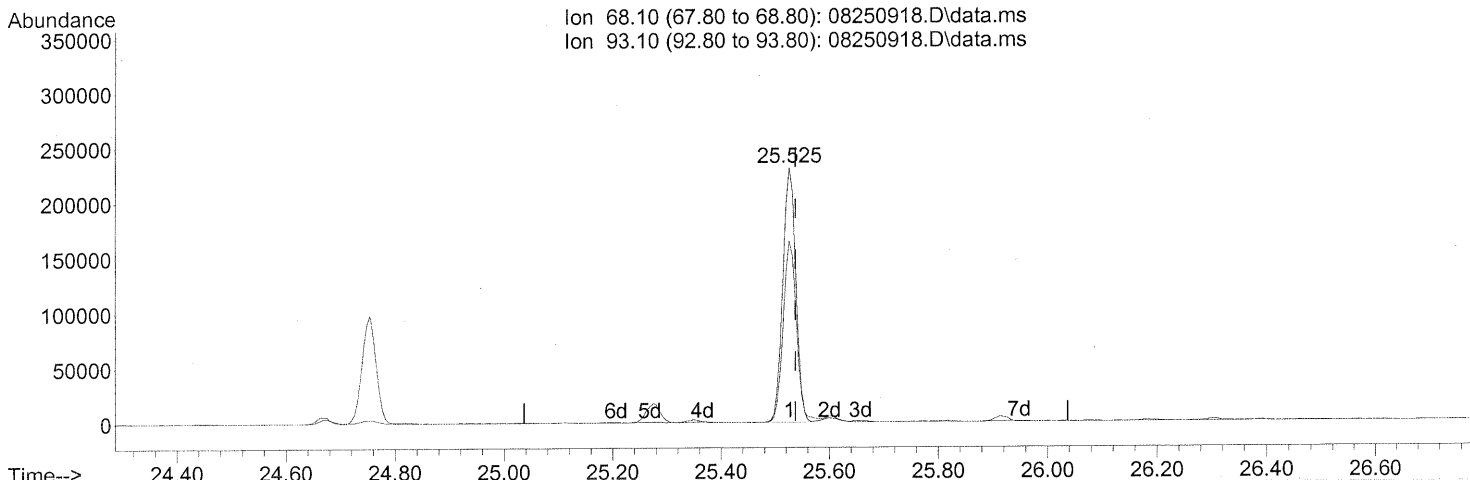
response 3616

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	63.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250918.D
 Acq On : 25 Aug 2009 10:59 pm
 Operator : WA/CC
 Sample : P0902876-002 (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.525min (-0.011) 19.28ng

response 387143

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	72.92
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: 102351

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-003

Test Code: EPA TO-15

Date Collected: 8/18/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/20/09

Analyst: Wida Ang

Date Analyzed: 8/26/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00976


Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.75	ND	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.75	0.51	0.15	
74-87-3	Chloromethane	0.38	0.15	0.19	0.072	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.75	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.067	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	10	7.5	5.4	4.0	
75-05-8	Acetonitrile	1.0	0.75	0.59	0.44	
107-02-8	Acrolein	ND	0.75	ND	0.33	
67-64-1	Acetone	13	7.5	5.5	3.1	
75-69-4	Trichlorofluoromethane	1.2	0.15	0.21	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	1.0	0.75	0.42	0.30	
107-13-1	Acrylonitrile	ND	0.75	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.038	
75-09-2	Methylene Chloride	ND	0.75	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.048	
76-13-1	Trichlorotrifluoroethane	0.60	0.15	0.078	0.019	
75-15-0	Carbon Disulfide	ND	0.75	ND	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.038	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.5	ND	2.1	
78-93-3	2-Butanone (MEK)	0.88	0.75	0.30	0.25	

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: 8/26/09

106

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102351

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-003

Test Code: EPA TO-15

Date Collected: 8/18/09

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: 8/20/09

Analyst: Wida Ang

Date Analyzed: 8/26/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

Container ID: AC00976

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.038	
141-78-6	Ethyl Acetate	1.3	0.75	0.35	0.21	
110-54-3	n-Hexane	ND	0.75	ND	0.21	
67-66-3	Chloroform	ND	0.15	ND	0.031	
109-99-9	Tetrahydrofuran (THF)	ND	0.75	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	ND	0.15	ND	0.047	
56-23-5	Carbon Tetrachloride	0.49	0.15	0.078	0.024	
110-82-7	Cyclohexane	ND	0.75	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.75	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.75	ND	0.18	
142-82-5	n-Heptane	ND	0.75	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	3.8	0.75	0.83	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.75	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	3.6	0.75	0.80	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	ND	0.75	ND	0.20	
591-78-6	2-Hexanone	ND	0.75	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.75	ND	0.16	

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: _____

9/8/09

107

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102351
Client Project ID: 16512

CAS Project ID: P0902876
CAS Sample ID: P0902876-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00976

Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.5 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.3	0.75	0.27	0.16	
127-18-4	Tetrachloroethene	ND	0.15	ND	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	ND	0.75	ND	0.17	
179601-23-1	m,p-Xylenes	ND	0.75	ND	0.17	
75-25-2	Bromoform	ND	0.75	ND	0.072	
100-42-5	Styrene	ND	0.75	ND	0.18	
95-47-6	o-Xylene	ND	0.75	ND	0.17	
111-84-2	n-Nonane	ND	0.75	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.75	ND	0.15	
80-56-8	alpha-Pinene	1.1	0.75	0.19	0.13	
103-65-1	n-Propylbenzene	ND	0.75	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.75	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.75	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.75	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	ND	0.75	ND	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.75	ND	0.10	
91-20-3	Naphthalene	0.83	0.75	0.16	0.14	
87-68-3	Hexachlorobutadiene	ND	0.75	ND	0.070	

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: _____

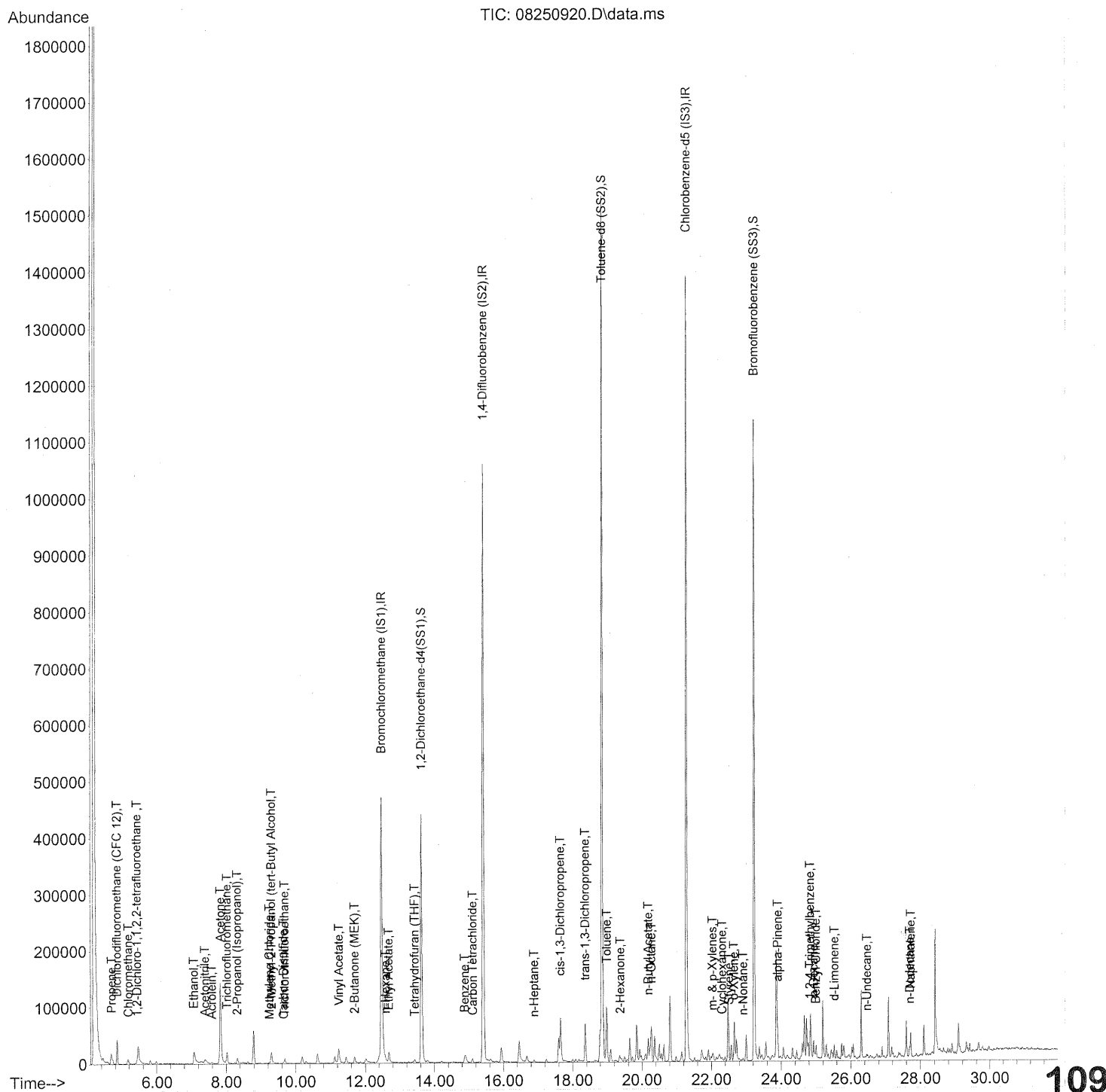
Date: _____

8/26/09

108

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250920.D
Acq On : 26 Aug 2009 12:23 am
Operator : WA/CC
Sample : P0902876-003 (1000mL)
Misc : Environmental Health 102351
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 17:28:38 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
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11/8/3/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	240471	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1211351	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	584410	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	458081	21.917	ng	-0.04
Spiked Amount	25.000			Recovery =	87.68%	
57) Toluene-d8 (SS2)	18.85	98	1316249	25.776	ng	-0.02
Spiked Amount	25.000			Recovery =	103.12%	
73) Bromofluorobenzene (SS3)	23.23	174	377133	28.006	ng	-0.01
Spiked Amount	25.000			Recovery =	112.04%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	5371	0.325	ng	92
3) Dichlorodifluoromethan...	4.86	85	45979	1.705	ng	99
4) Chloromethane	5.18	50	4671	0.258	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	817	0.075	ng	# 44
6) Vinyl Chloride	0.00	62	0	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	7.07	45	71406	6.827	ng	86
11) Acetonitrile	7.39	41	20508	0.669	ng	82
12) Acrolein	7.58	56	3880	0.487	ng	99
13) Acetone	7.83	58	86970	8.812	ng	# 83
14) Trichlorofluoromethane	8.02	101	19566	0.802	ng	99
15) 2-Propanol (Isopropanol)	8.32	45	27086m	0.698	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...	9.30	59	3243	0.094	ng	# 1
19) Methylene Chloride	9.24	84	1276	0.096	ng	95
20) 3-Chloro-1-propene (Al...	9.30	41	399	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3555	0.401	ng	98
22) Carbon Disulfide	9.64	76	4000	0.086	ng	# 74
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.		<MRL
26) Vinyl Acetate	.11.24	86	5408	2.693	ng	# 30
27) 2-Butanone (MEK)	11.69	72	5249	0.589	ng	98
28) cis-1,2-Dichloroethene	12.47	61	91	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.67	61	3955	0.852	ng	92
31) n-Hexane	12.58	57	1313	0.055	ng	# 68

<MRL

<MRL 110

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Quant Time: Aug 31 17:28:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	648	N.D.		
34) Tetrahydrofuran (THF)	13.42	72	1546	0.163 ng	#	64
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.80	62	107	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	14.98	56	86	N.D.		
41) Benzene	14.87	78	4640	0.087 ng		87
42) Carbon Tetrachloride	<u>15.11</u>	117	5560	<u>0.328</u> ng	Yes	96
43) Cyclohexane	15.29	84	126	N.D.		
44) tert-Amyl Methyl Ether	16.12	73	442	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...	16.52	57	2966	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.88	71	981	0.069 ng	#	81
52) cis-1,3-Dichloropropene	<u>17.64</u>	75	56058	<u>2.529</u> ng		98
53) 4-Methyl-2-pentanone	17.77	58	617	N.D.		
54) trans-1,3-Dichloropropene	<u>18.36</u>	75	51614	<u>2.449</u> ng		100
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	21469	0.428 ng		99
59) 2-Hexanone	19.37	43	7200	0.216 ng	#	64
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	6350	0.161 ng	#	27
63) n-Octane	<u>20.27</u>	57	10340	<u>0.852</u> ng		96
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.81	91	2474	N.D.		
67) m- & p-Xylenes	22.03	91	6029	0.130 ng		96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	1857	0.055 ng		95
70) o-Xylene	22.65	91	2645	0.057 ng		75
71) n-Nonane	22.91	43	3231	0.105 ng	#	73
72) 1,1,2,2-Tetrachloroethane	22.64	83	243	N.D.		
74) Cumene	23.23	105	435	N.D.		
75) alpha-Pinene	<u>23.90</u>	93	21365	<u>0.709</u> ng	#	42
76) n-Propylbenzene	24.04	91	1458	N.D.		
77) 3-Ethyltoluene	24.17	105	2748	N.D.		
78) 4-Ethyltoluene	24.22	105	1292	N.D.		
79) 1,3,5-Trimethylbenzene	24.33	105	1267	N.D.		

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Quant Time: Aug 31 17:28:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

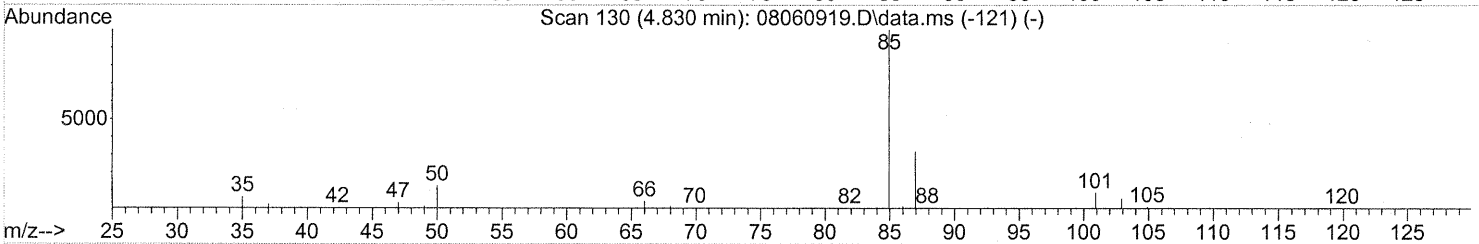
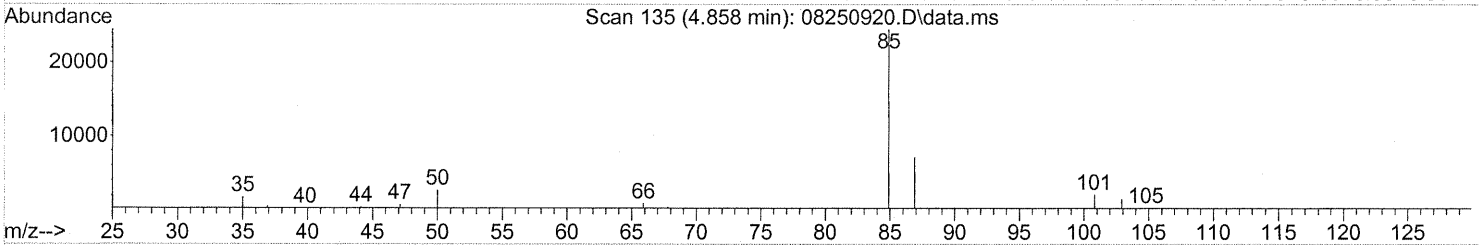
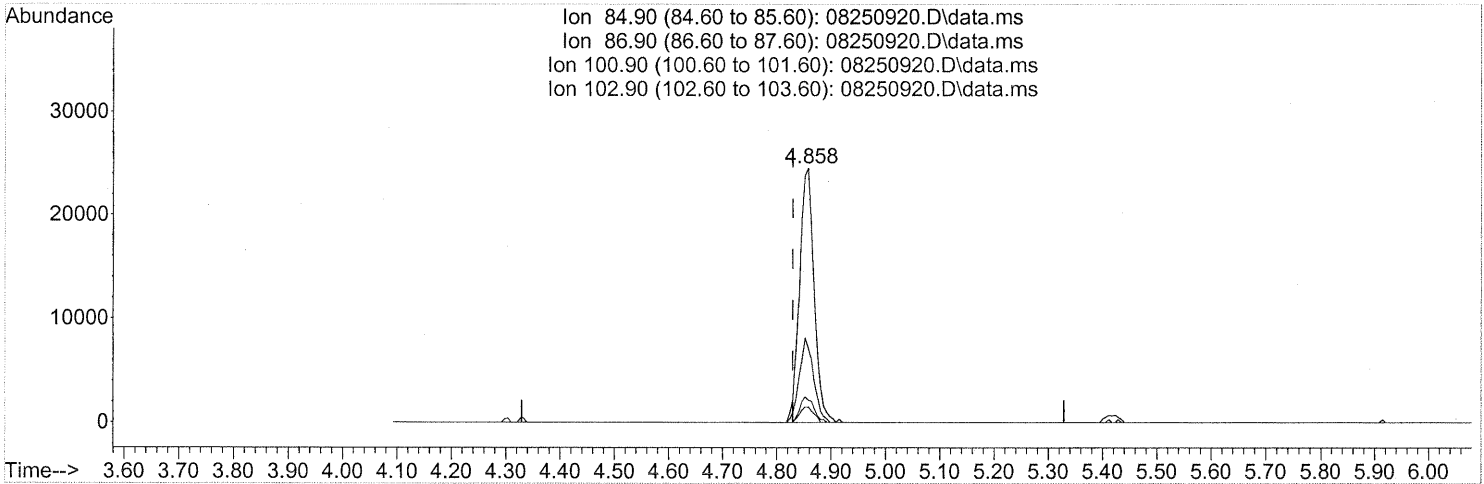
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	738	N.D.		
81) 2-Ethyltoluene	24.55	105	1168	N.D.		
82) 1,2,4-Trimethylbenzene	24.82	105	3563	0.076 ng		83
83) n-Decane	24.93	57	12154	0.399 ng		97
84) Benzyl Chloride	24.99	91	2257	0.051 ng		81
85) 1,3-Dichlorobenzene	25.10	146	327	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	327	N.D.		
87) sec-Butylbenzene	25.19	105	89	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	2498	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	1359	N.D.		
90) 1,2-Dichlorobenzene	25.10	146	327	N.D.		
91) d-Limonene	25.53	68	7034	0.353 ng	#	63
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	3721	0.115 ng		89
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	35243	0.554 ng		99
96) n-Dodecane	27.70	57	8490	0.226 ng		88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	3227	0.155 ng		93
99) tert-Butylbenzene	24.82	119	311	N.D.		
100) n-Butylbenzene	25.82	91	2458	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.858min (+0.028) 1.70ng

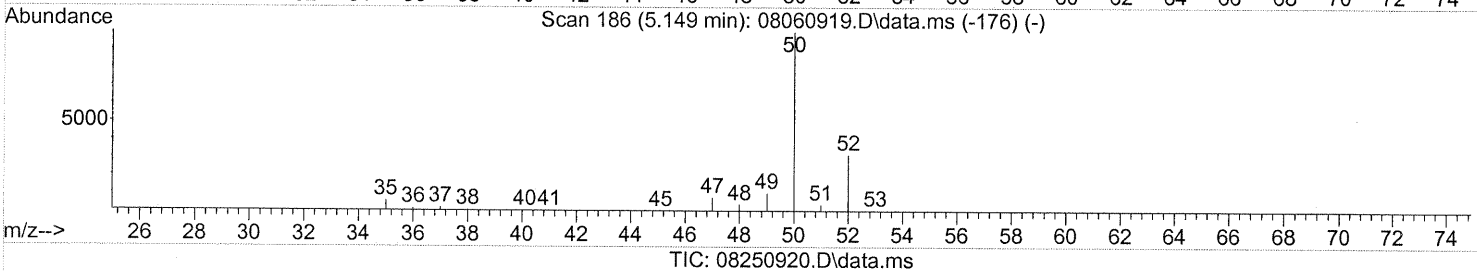
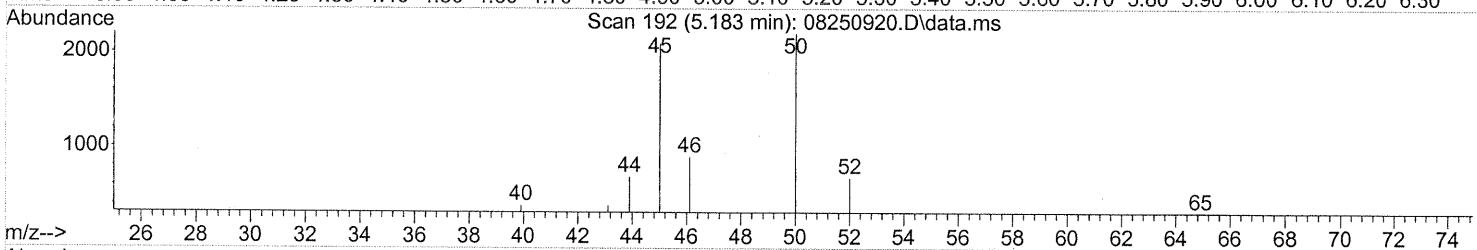
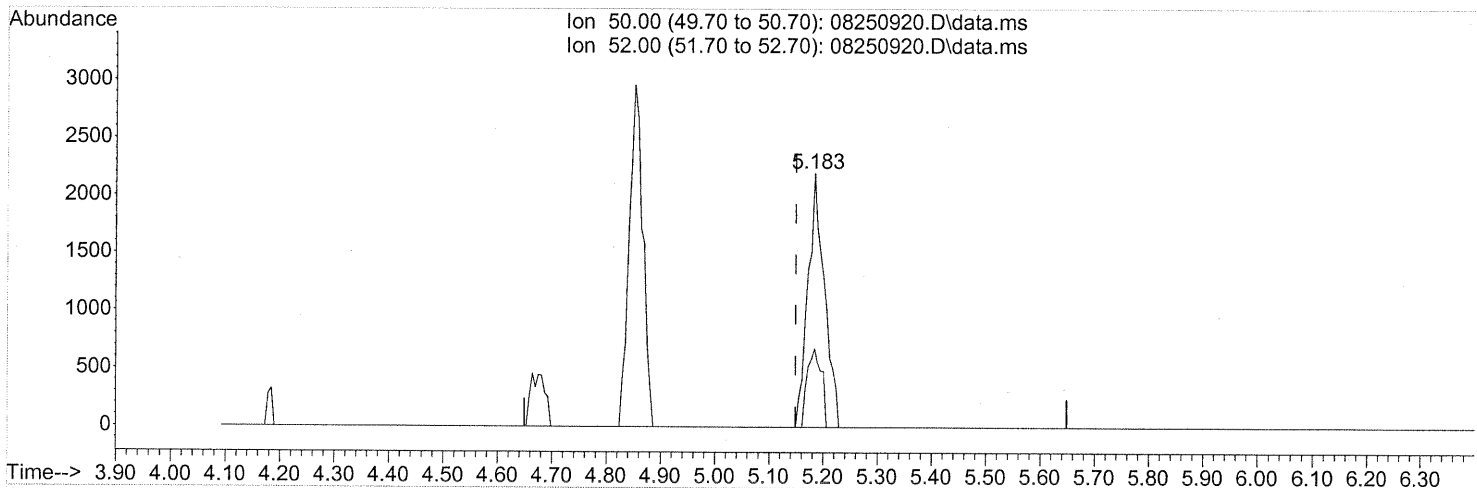
response 45979

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.23
100.90	8.80	9.28
102.90	5.20	5.60

Quantitation Report (Qedit)

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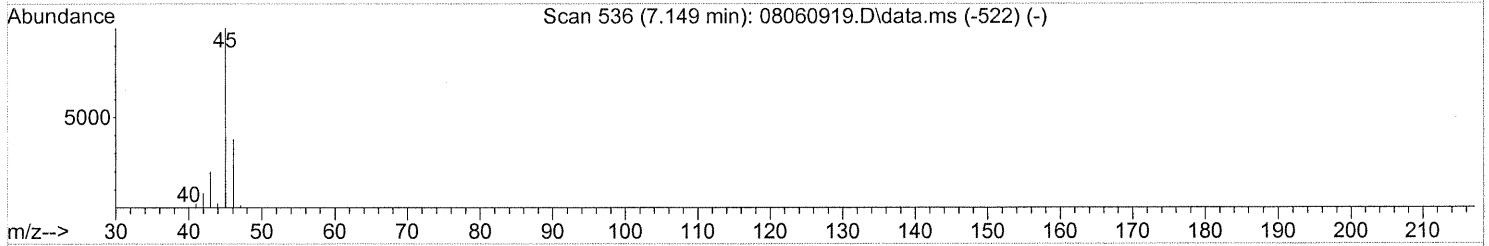
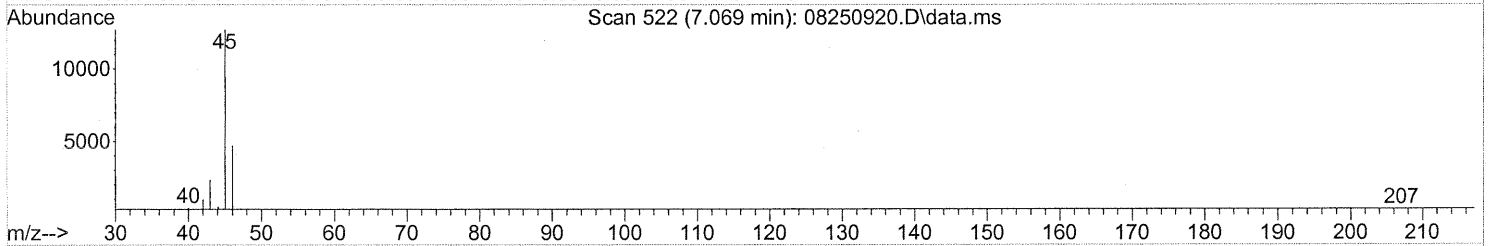
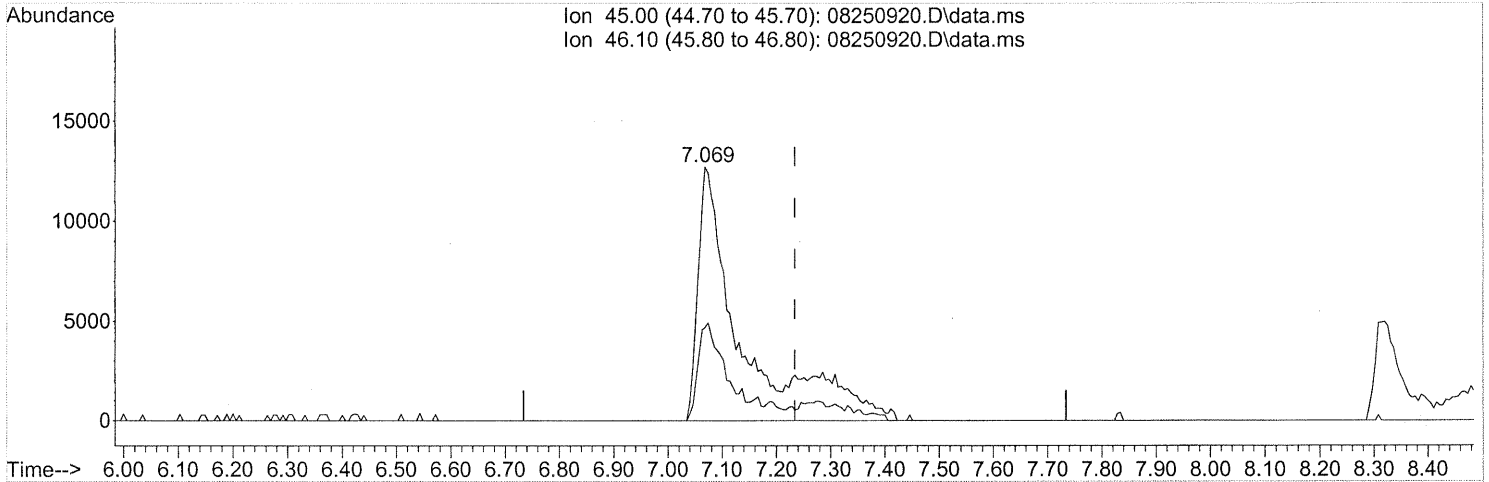
(4) Chloromethane (T)
 5.183min (+0.034) 0.26ng
 response 4671

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	26.40
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08250920.D\data.ms

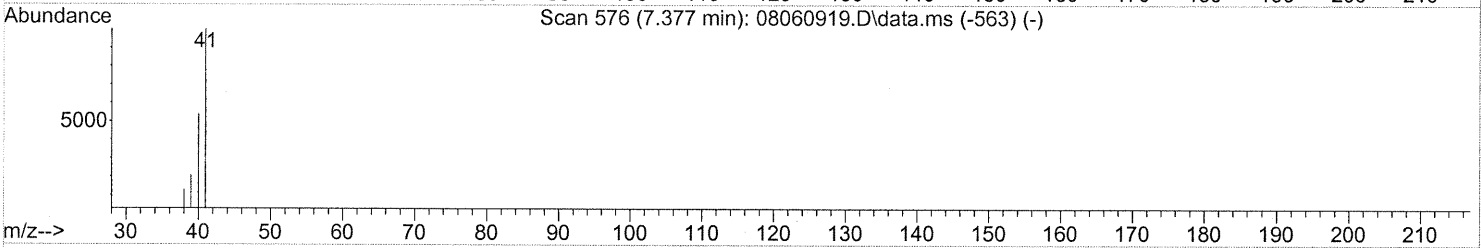
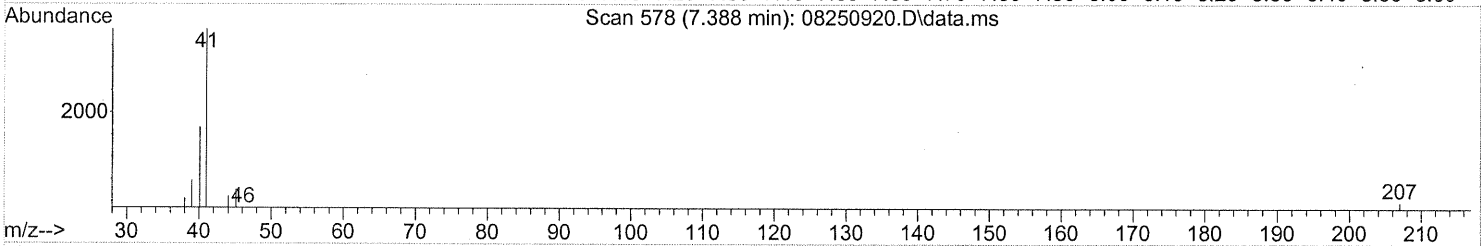
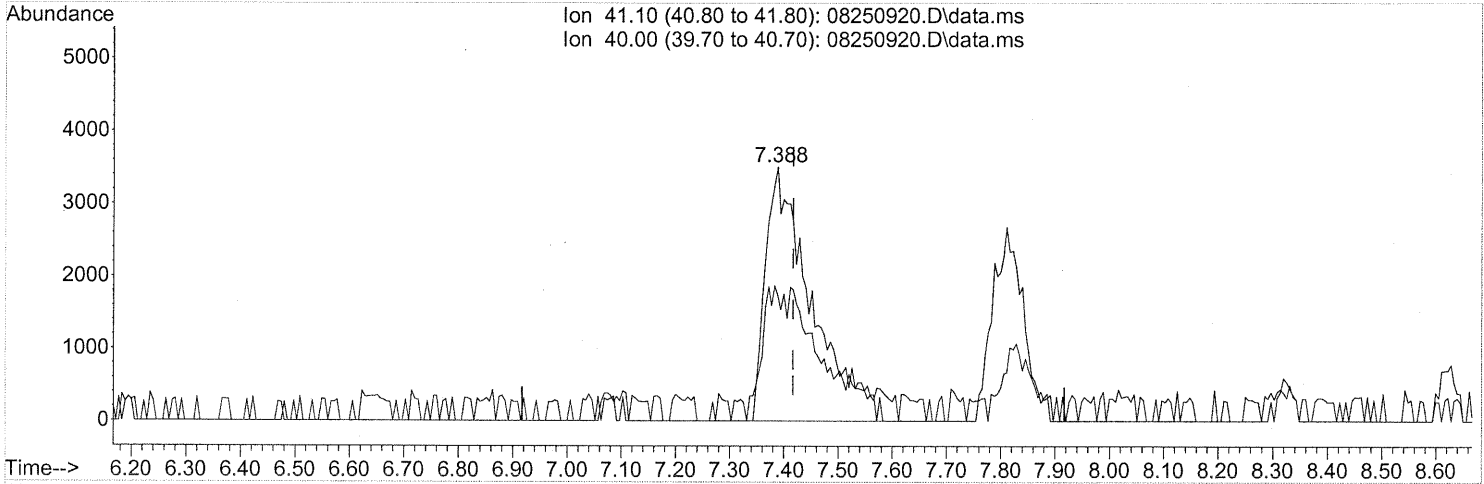
(10) Ethanol (T)
 7.069min (-0.166) 6.83ng
 response 71406

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	29.81
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08250920.D\data.ms

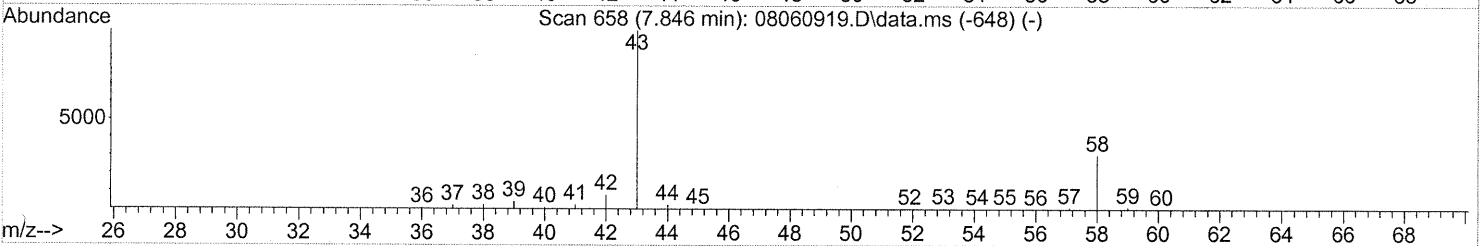
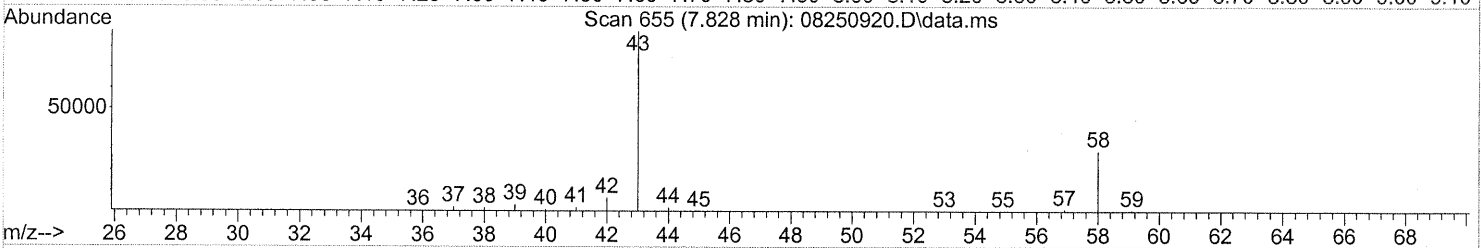
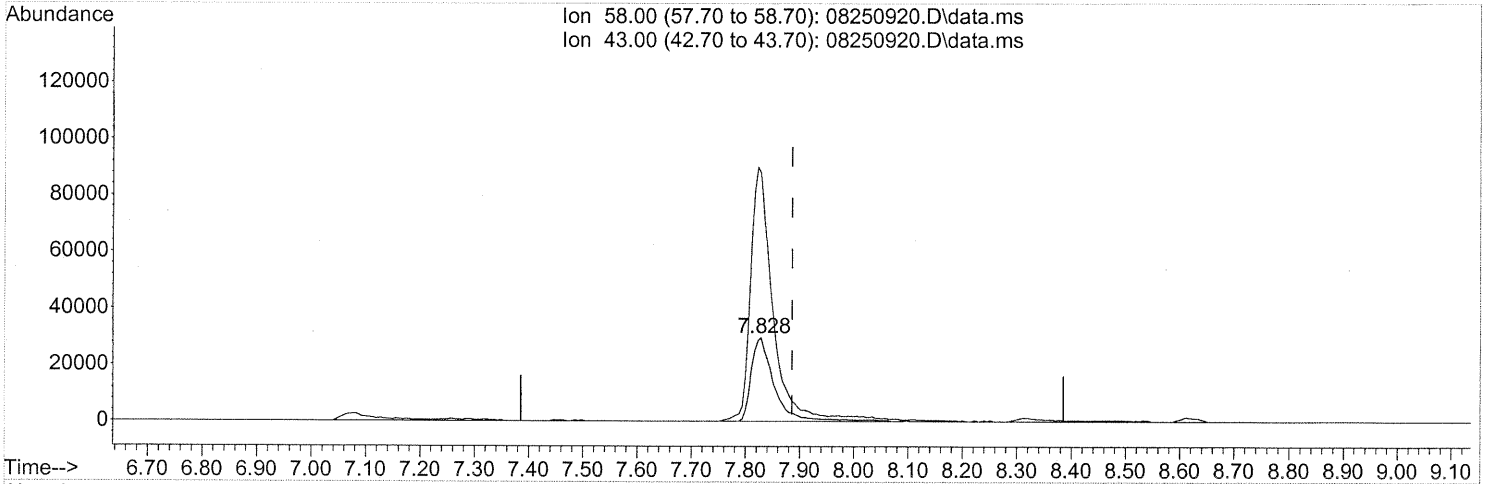
(11) Acetonitrile (T)
 7.388min (-0.029) 0.67ng
 response 20508

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	66.22
0.00	0.00	0.00
0.00	0.00	0.00

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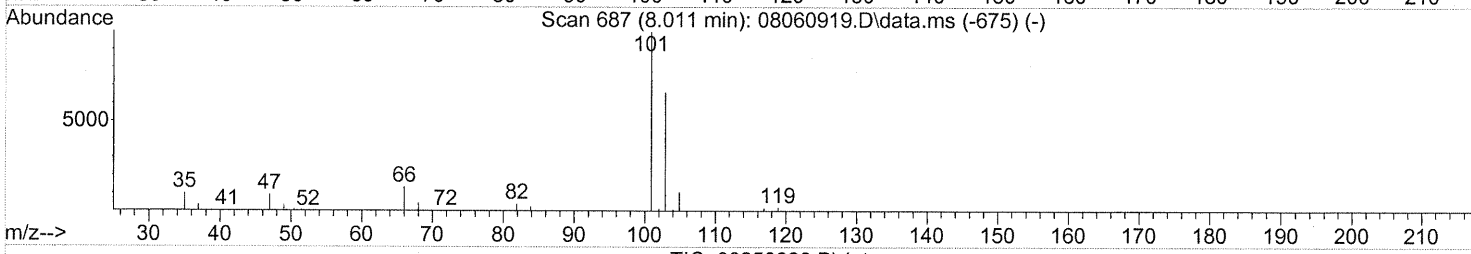
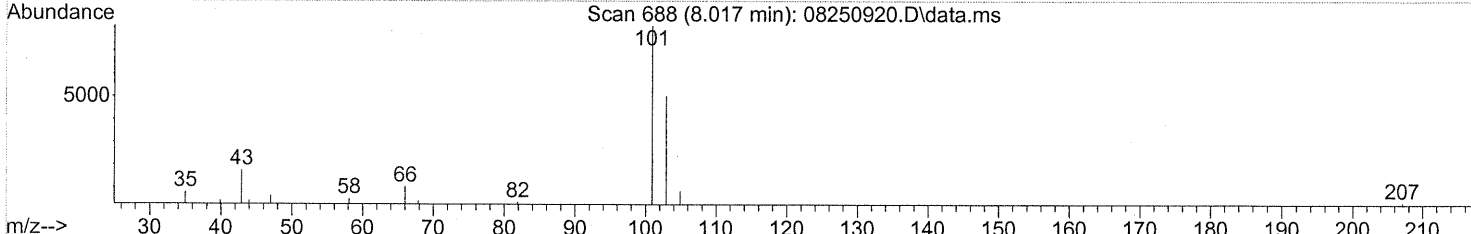
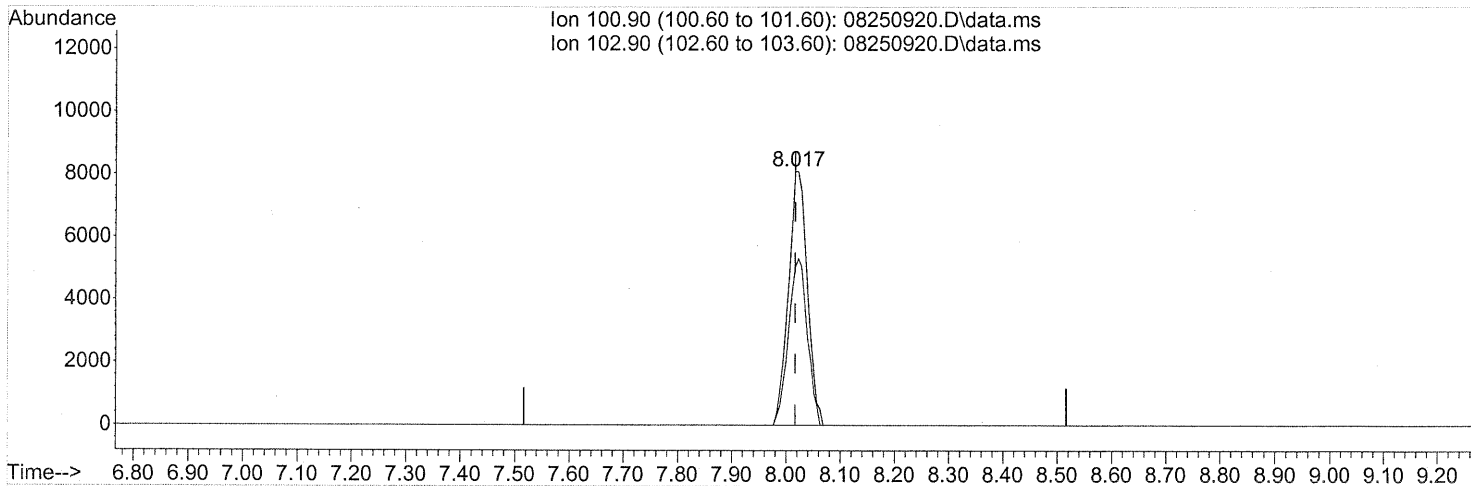
(13) Acetone (T)
 7.828min (-0.058) 8.81ng
 response 86970

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	304.72#
0.00	0.00	0.00
0.00	0.00	0.00

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TIC: 08250920.D\data.ms

(14) Trichlorofluoromethane (T)

8.017min (-0.000) 0.80ng

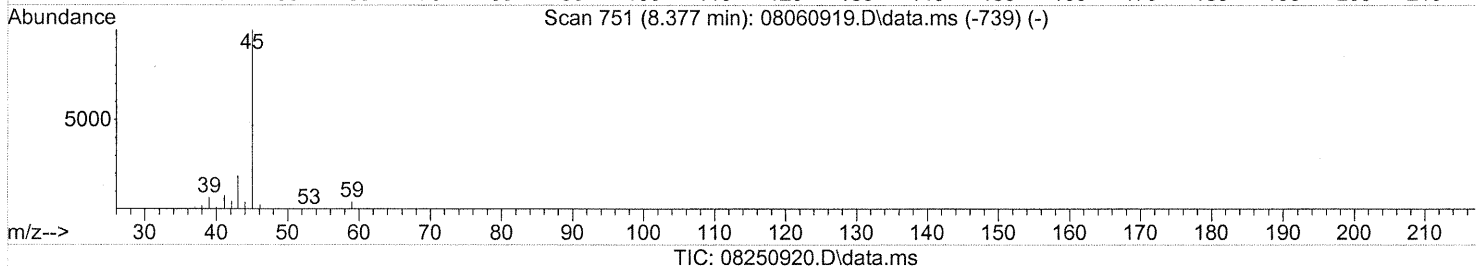
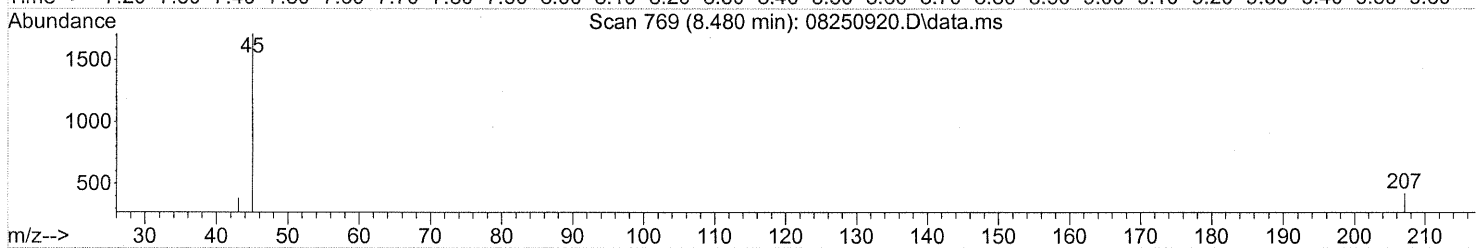
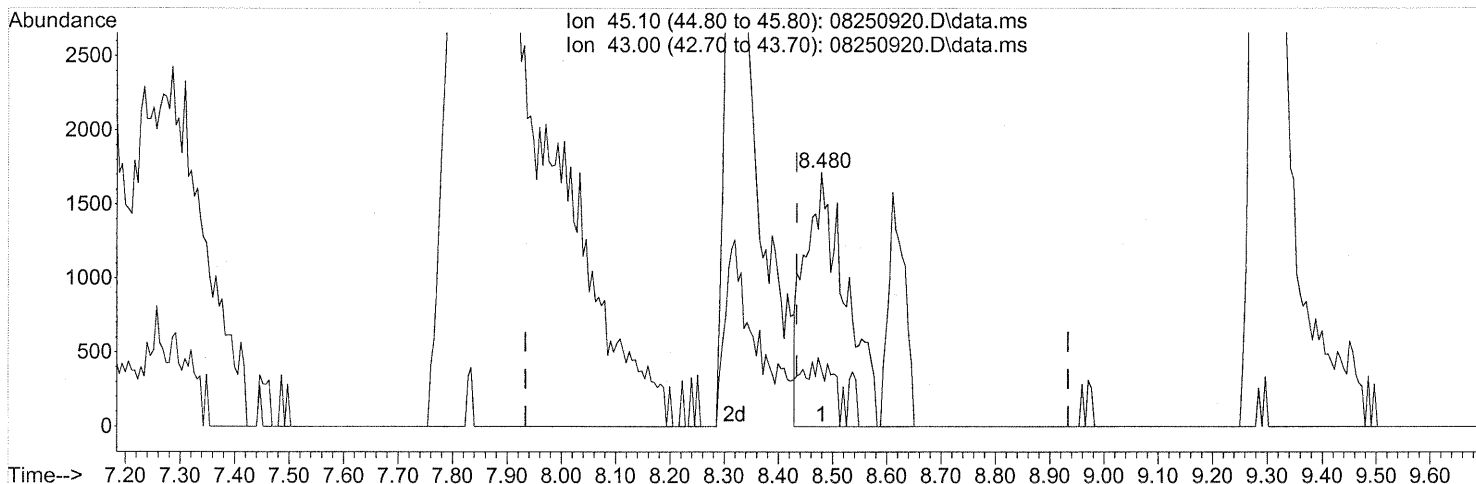
response 19566

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.46
0.00	0.00	0.00
0.00	0.00	0.00

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

8.480min (+0.046) 0.23ng

response 8883

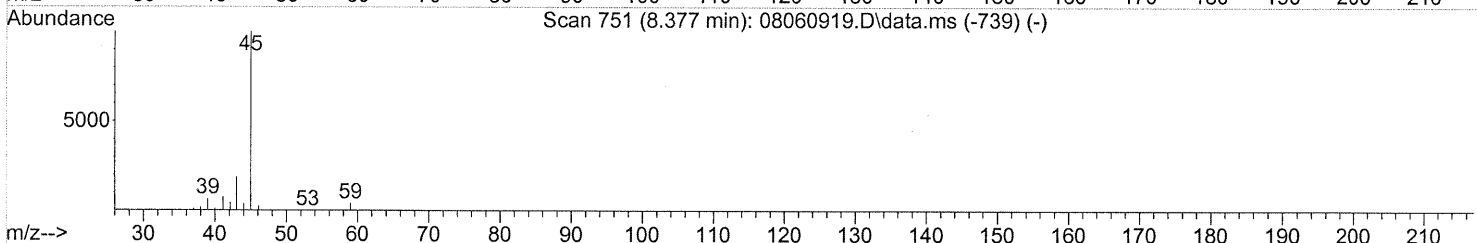
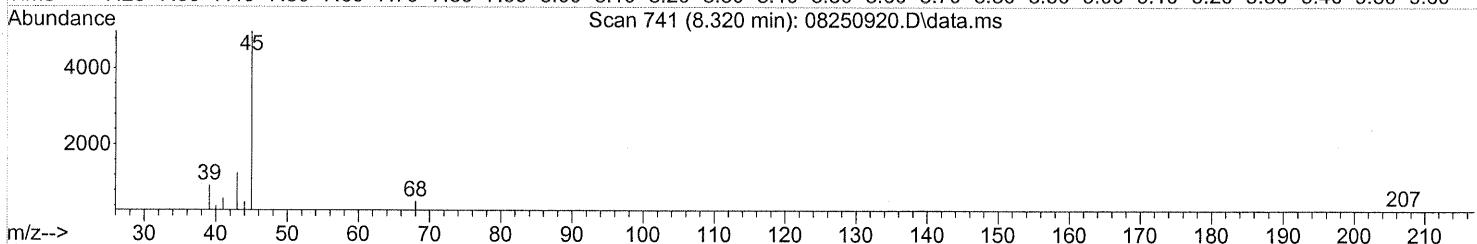
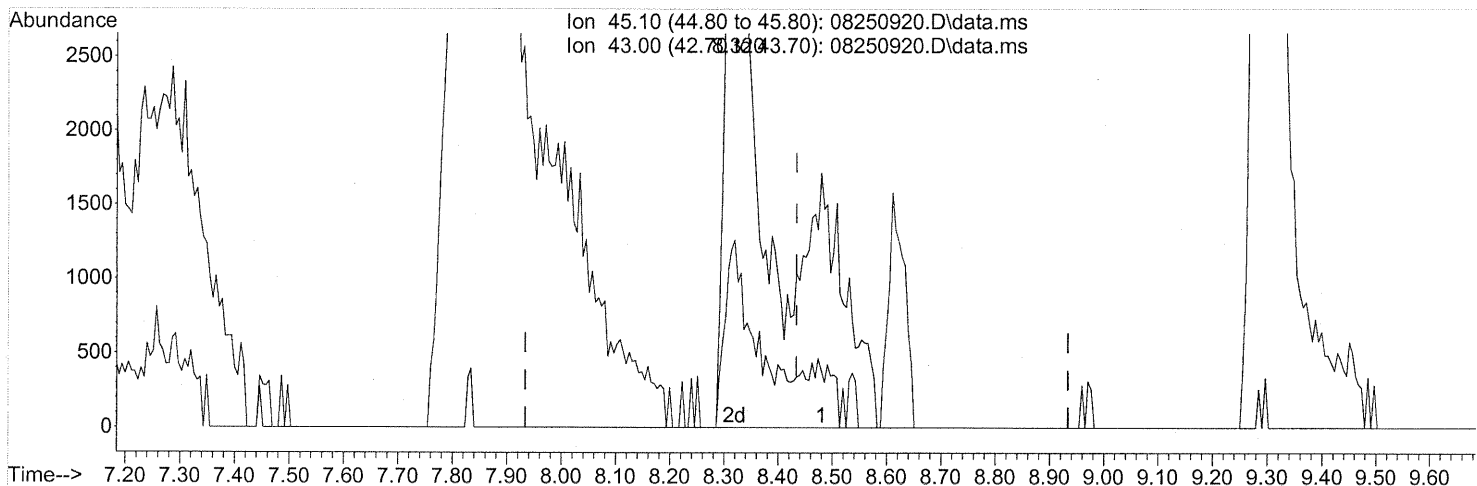
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Ion	Exp%	Act%
45.10	100	100
43.00	19.00	27.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.320min (-0.114) 0.70ng m

response 27086

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	9.14
0.00	0.00	0.00
0.00	0.00	0.00

CMRL
9/2/09

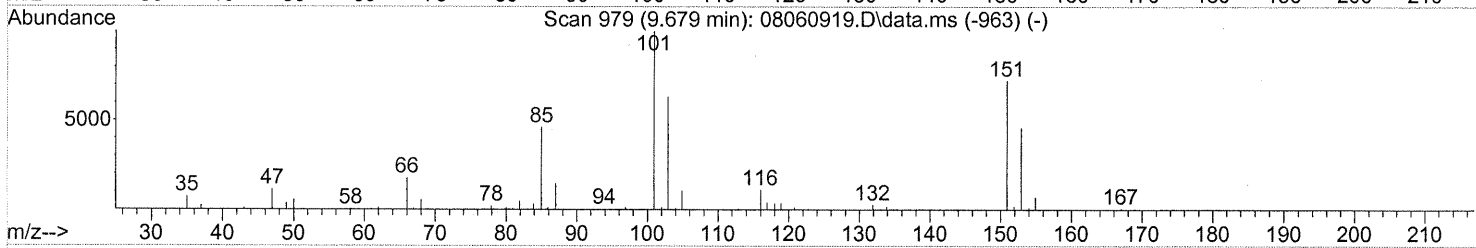
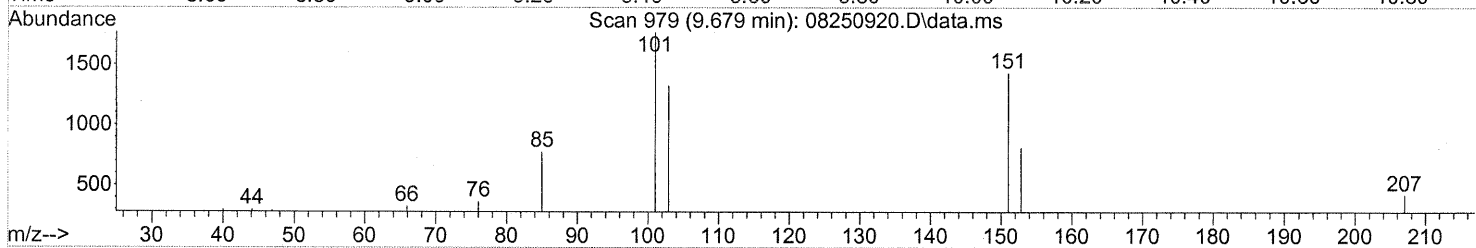
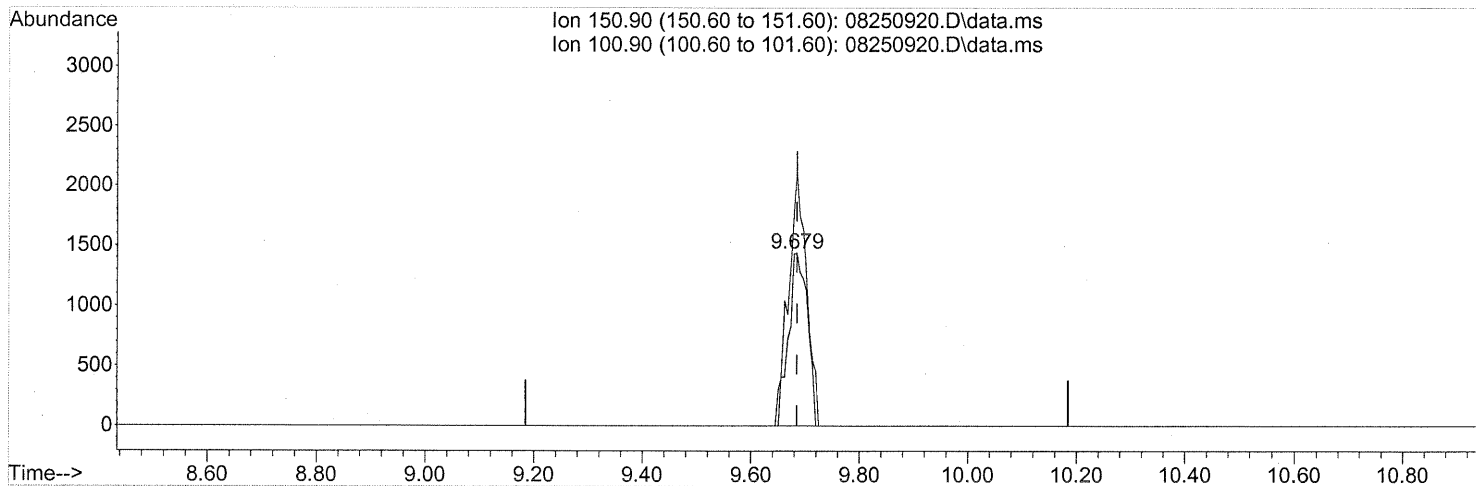
SP-IC
LM 8/31/09

L 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.40ng

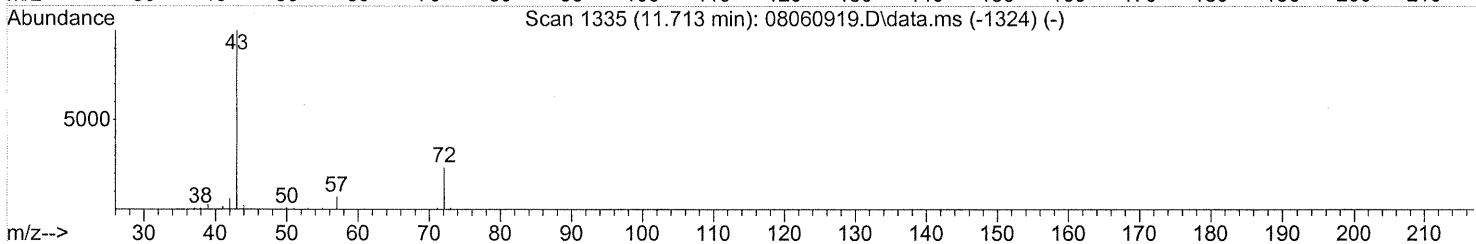
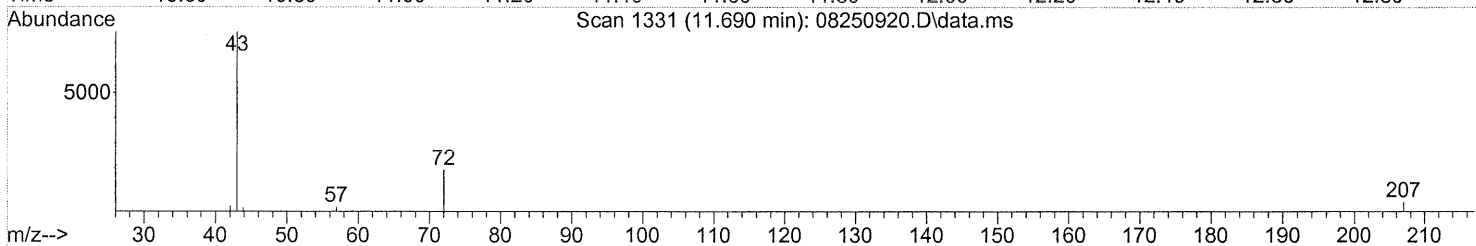
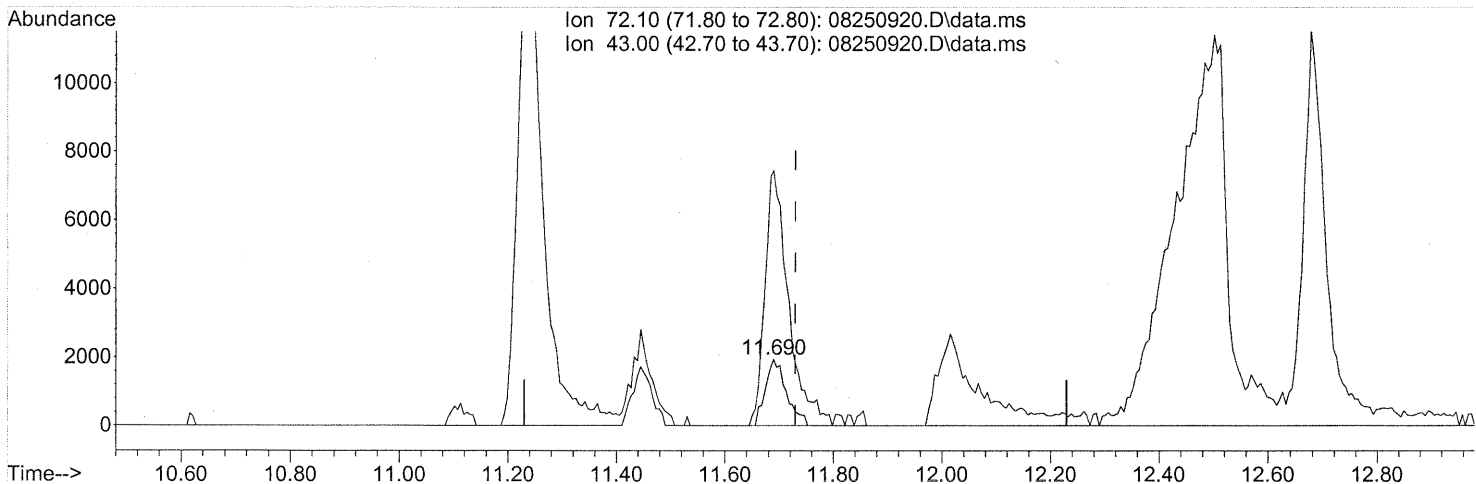
response 3555

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	135.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.690min (-0.040) 0.59ng

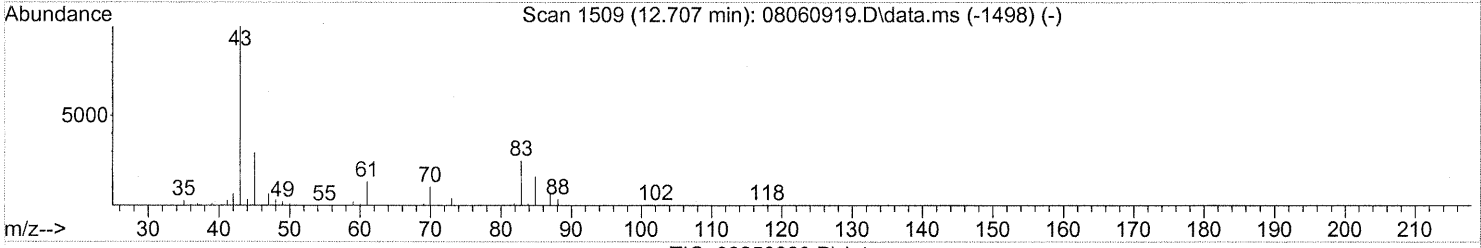
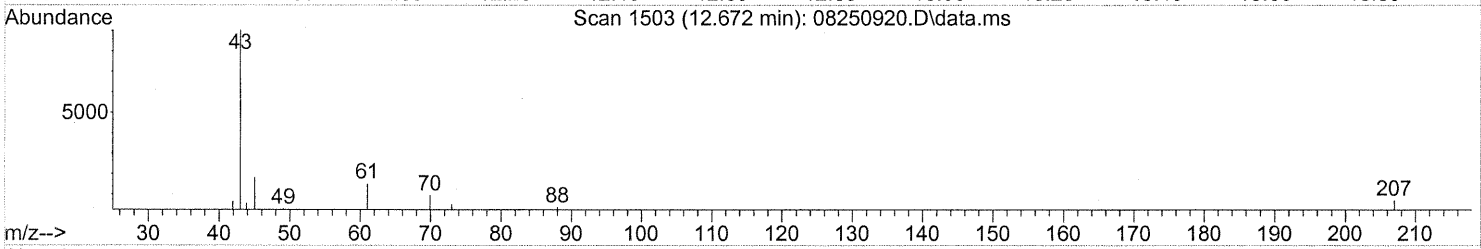
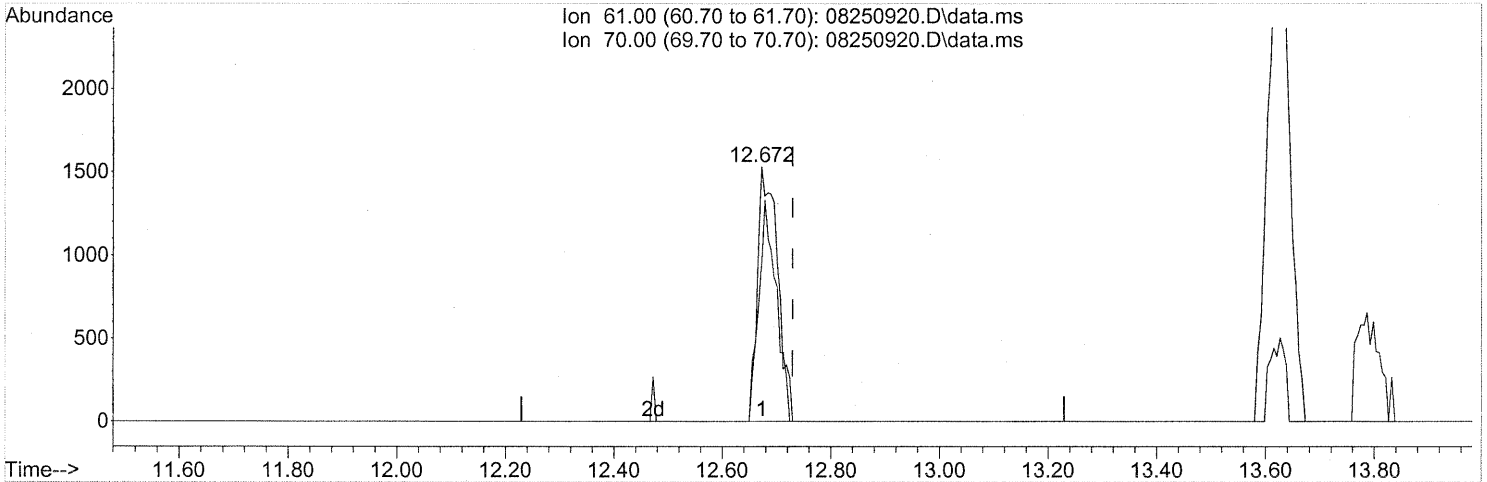
response 5249

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	432.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

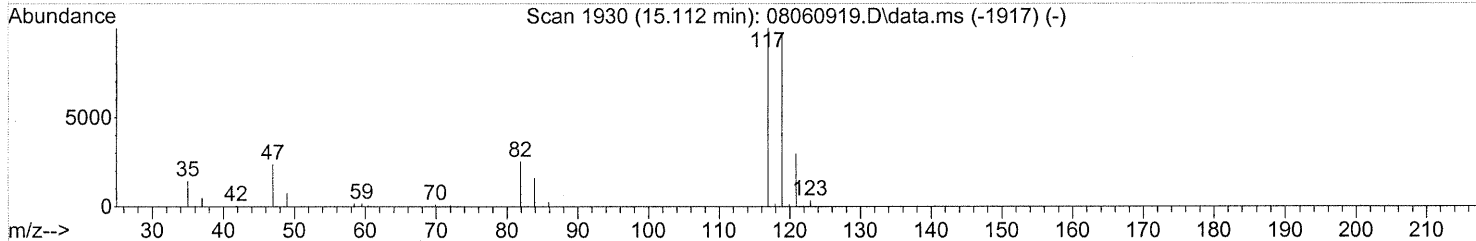
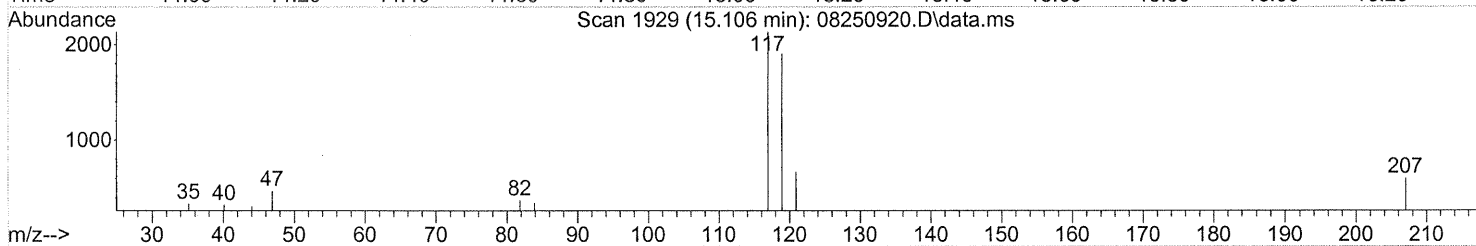
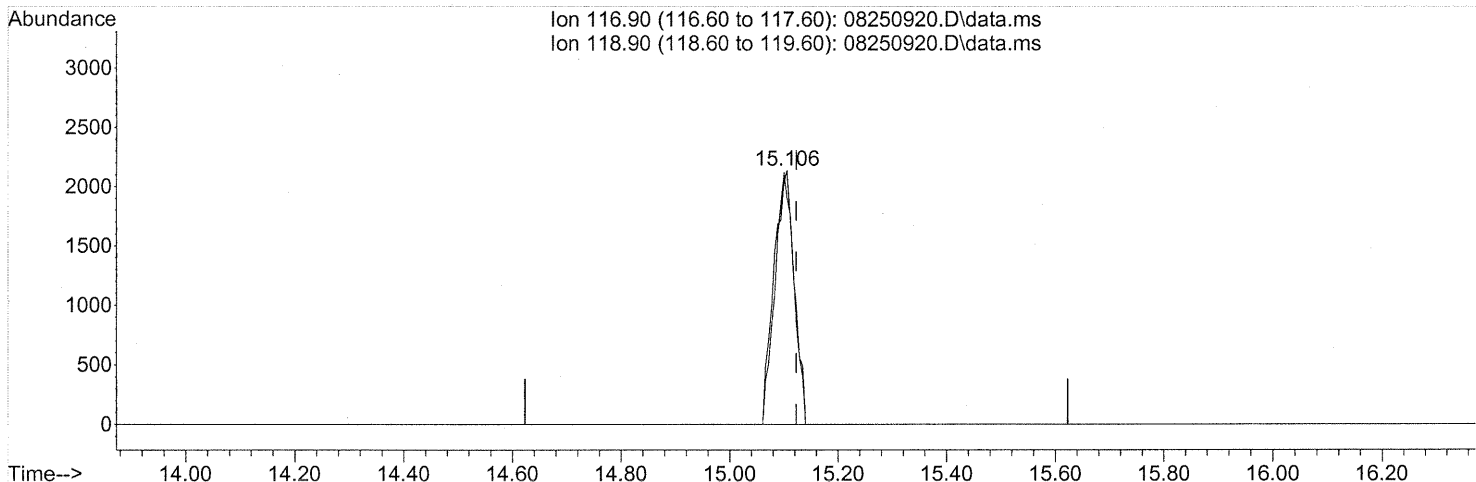
(30) Ethyl Acetate (T)
 12.672min (-0.057) 0.85ng
 response 3955

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	74.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.33ng

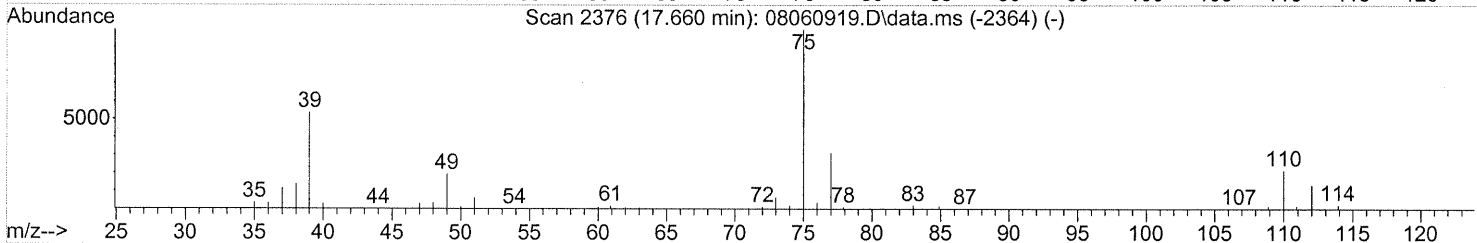
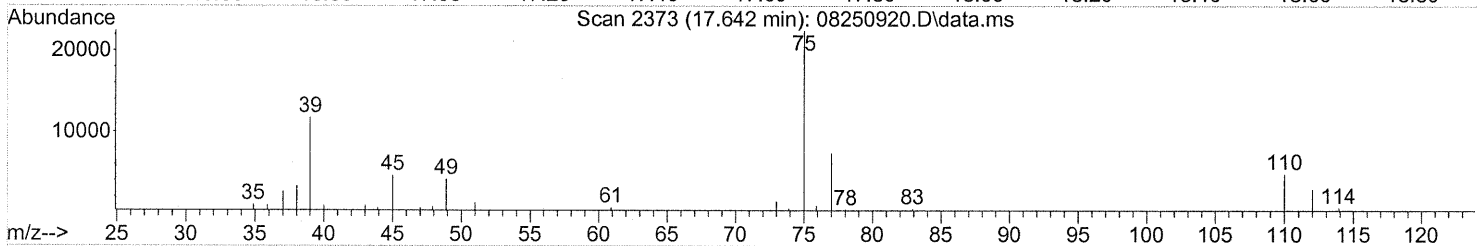
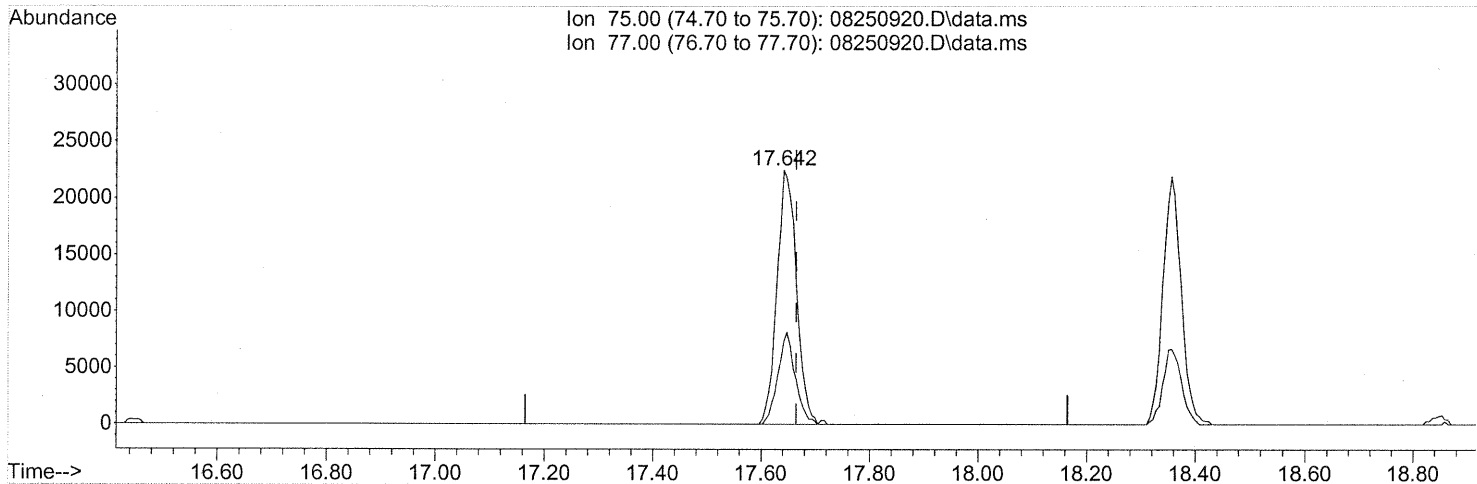
response 5560

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	93.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.642min (-0.023) 2.53ng

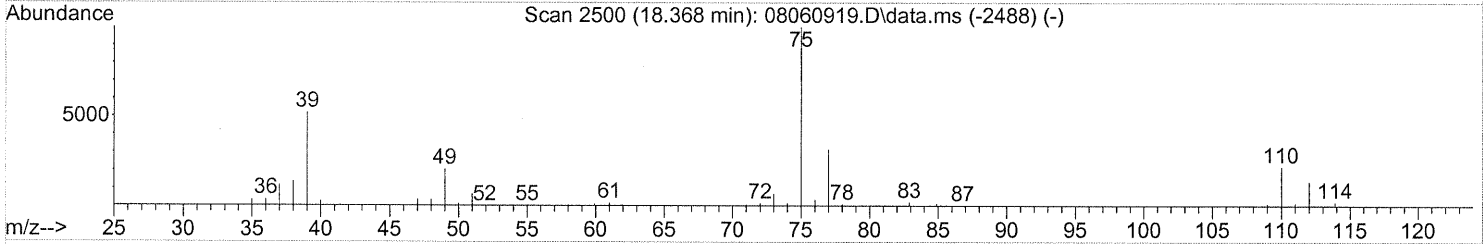
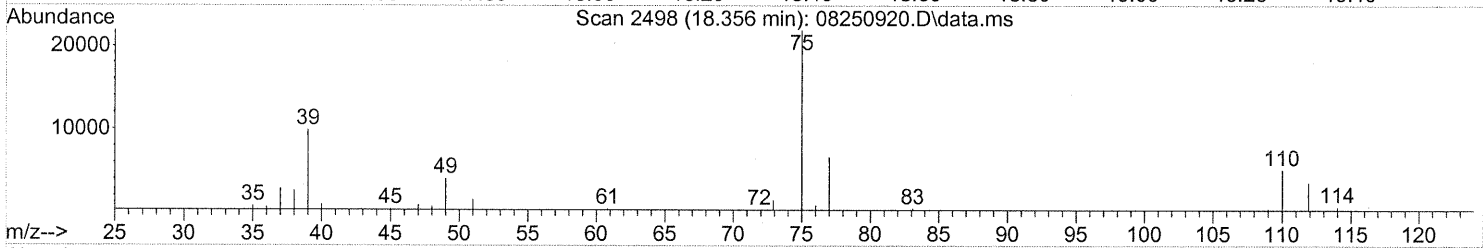
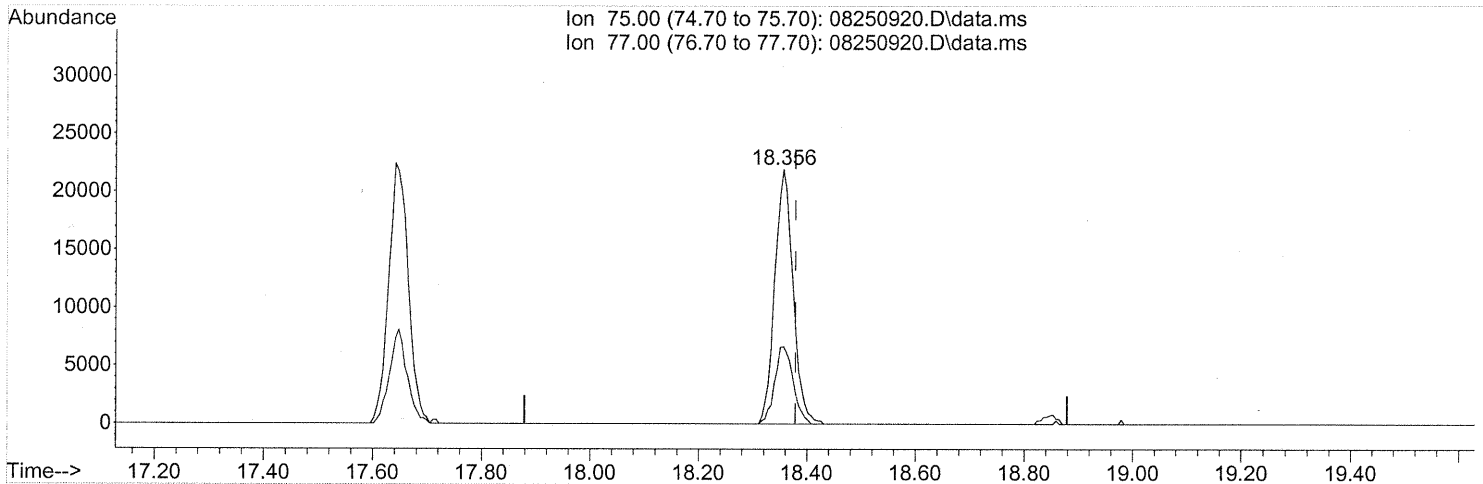
response 56058

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	32.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 2.45ng

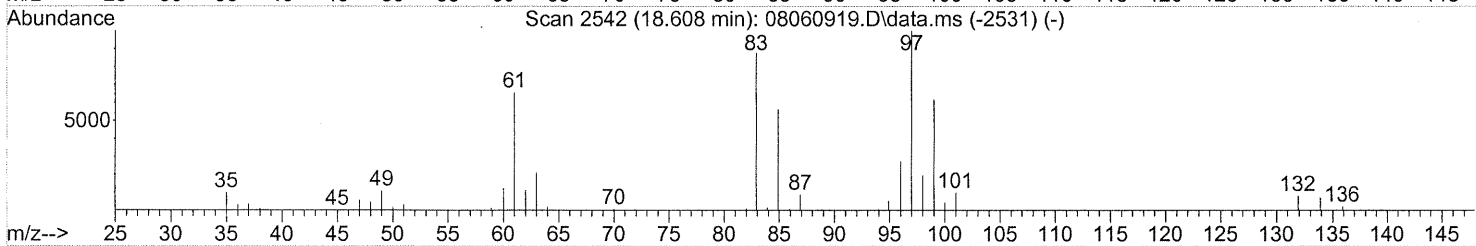
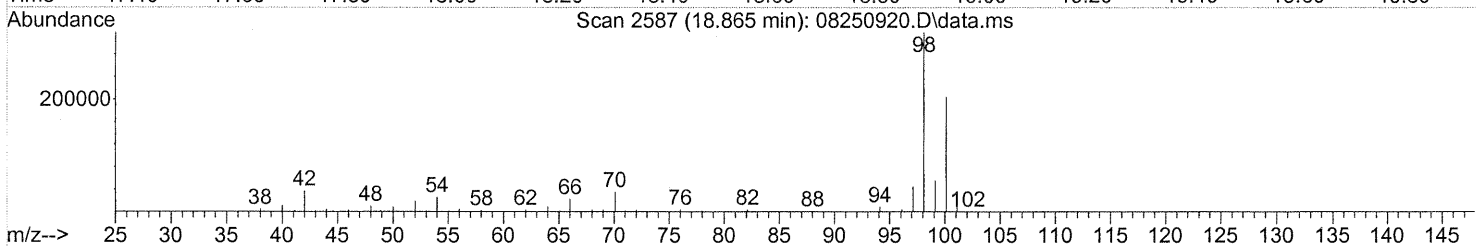
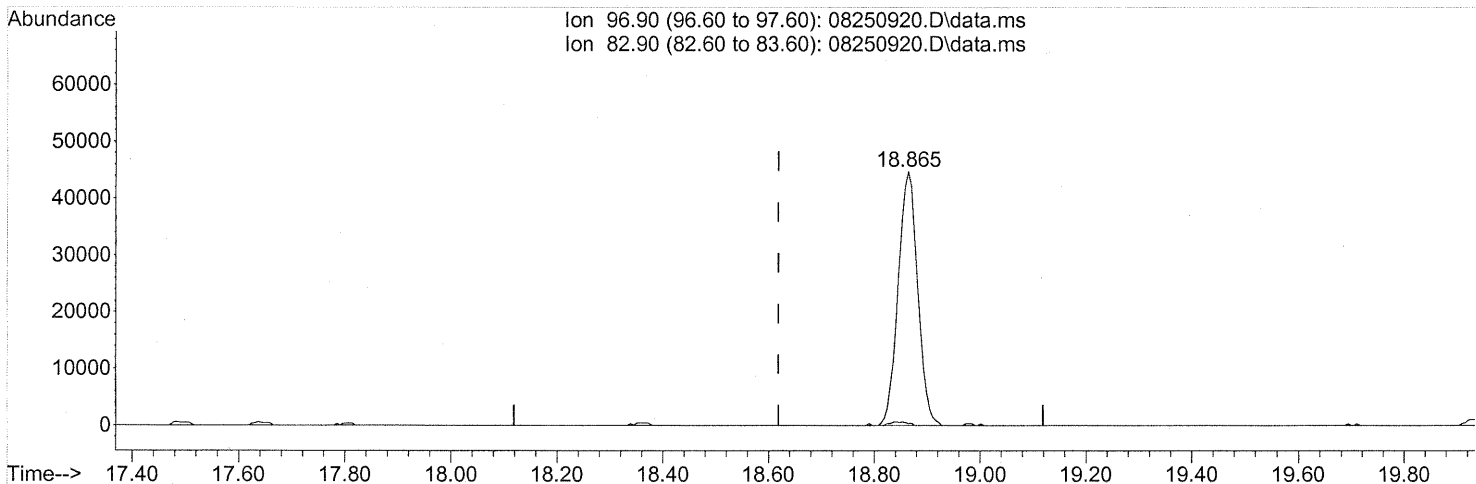
response 51614

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	30.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

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

18.865min (+0.246) 9.80ng

response 114614

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.20#
0.00	0.00	0.00
0.00	0.00	0.00

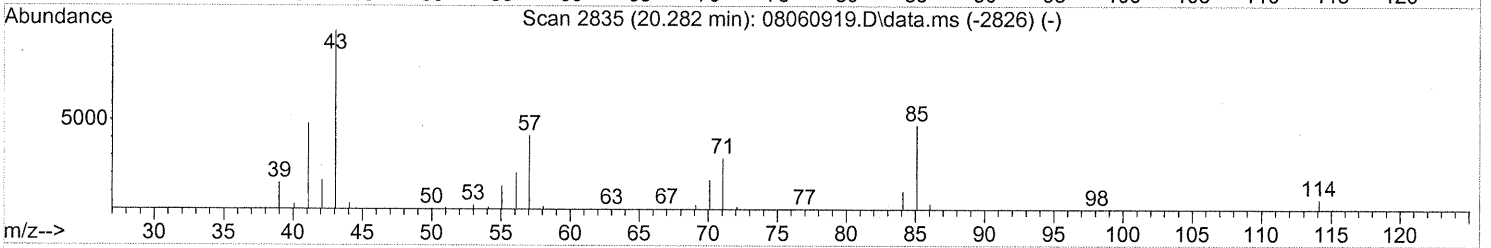
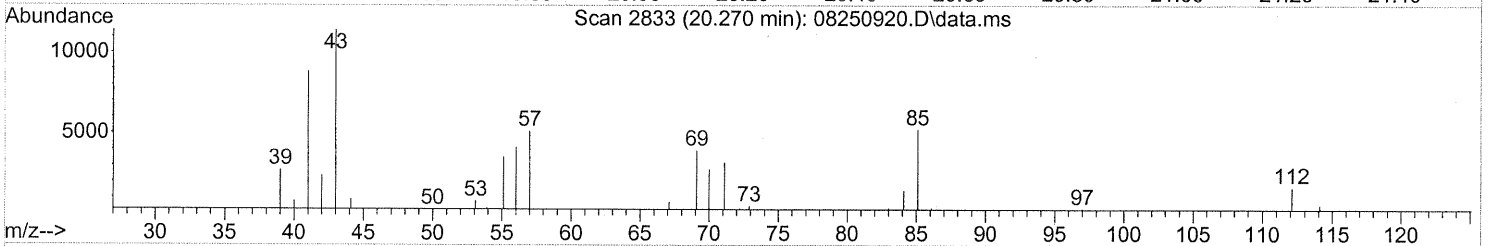
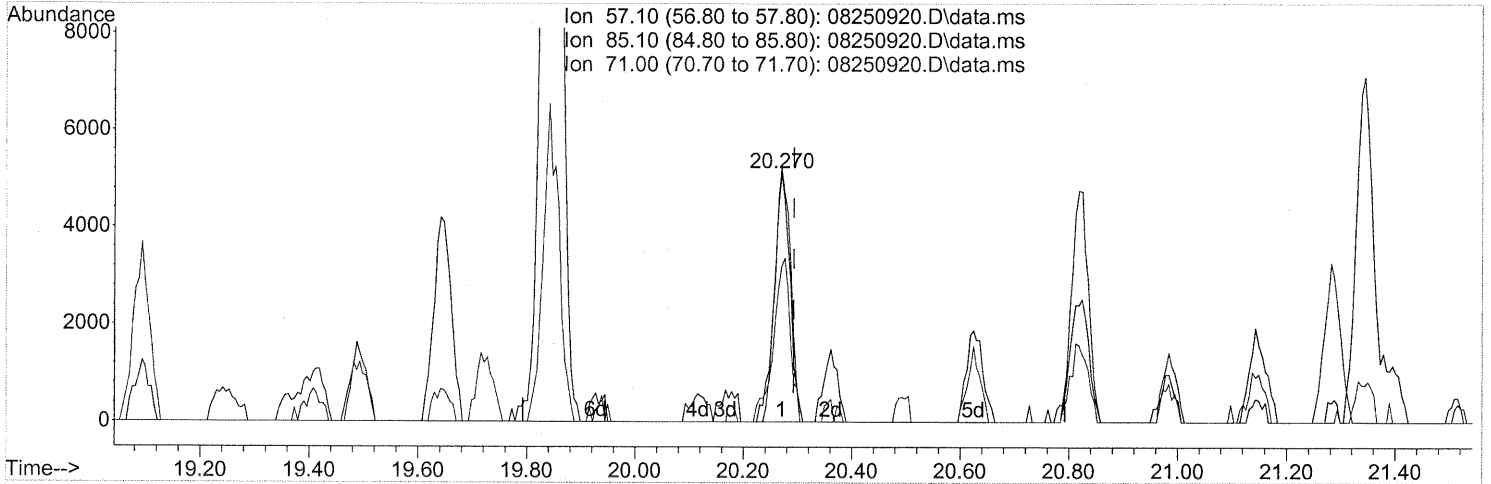
FP
 17 8/31/09

— 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

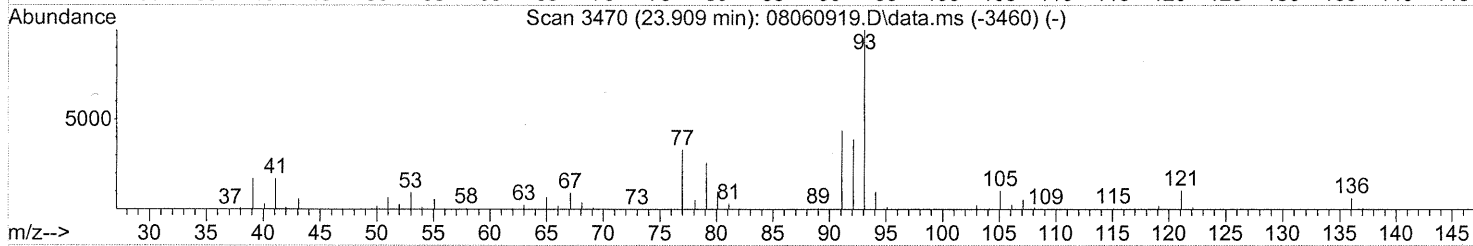
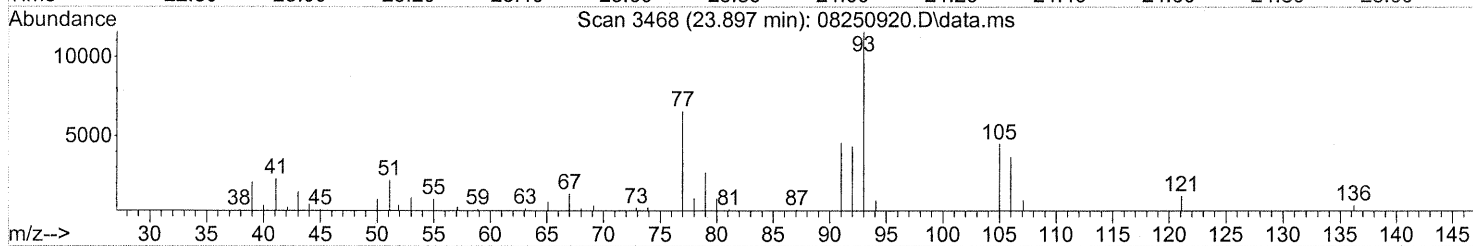
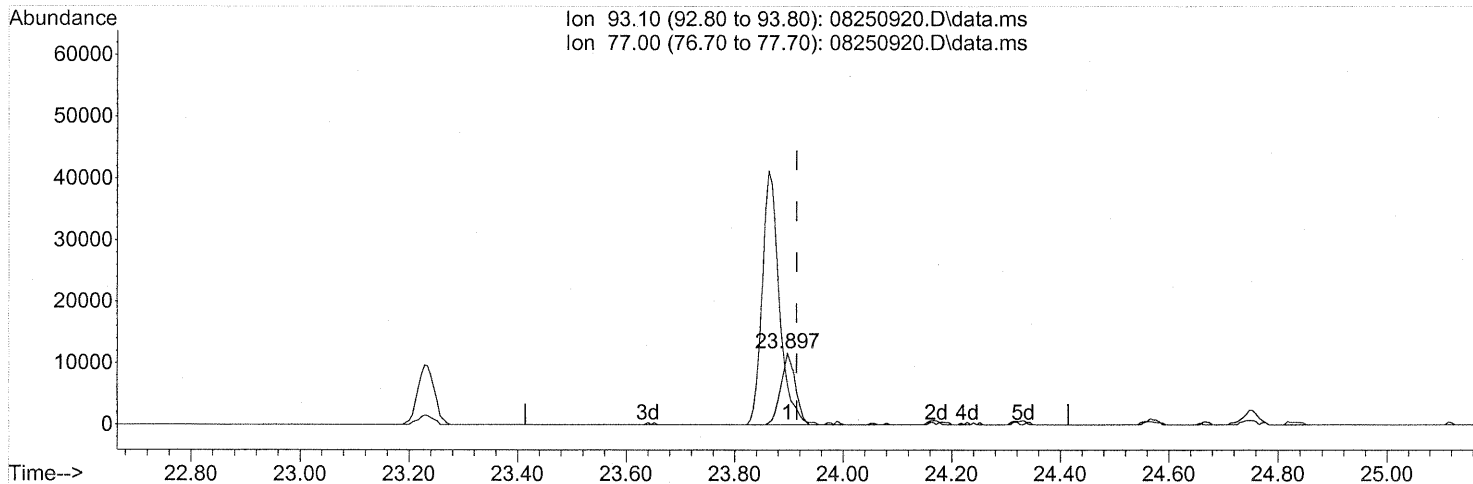
(63) n-Octane (T)
 20.270min (-0.023) 0.85ng
 response 10340

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	100.80
71.00	68.10	69.85
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 26 06:39:44 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

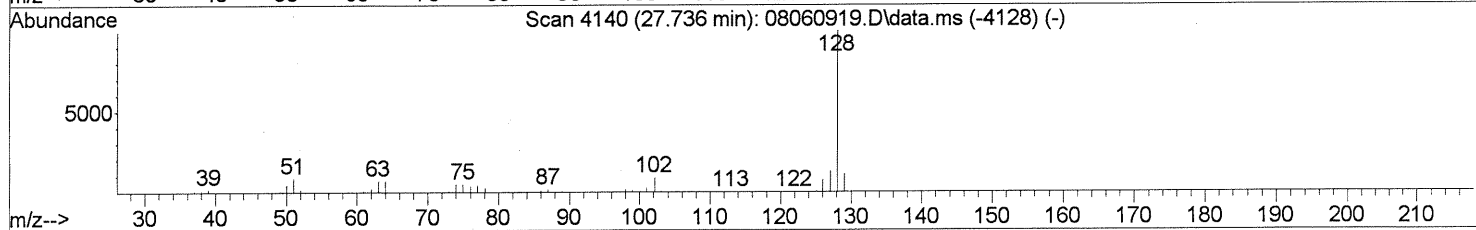
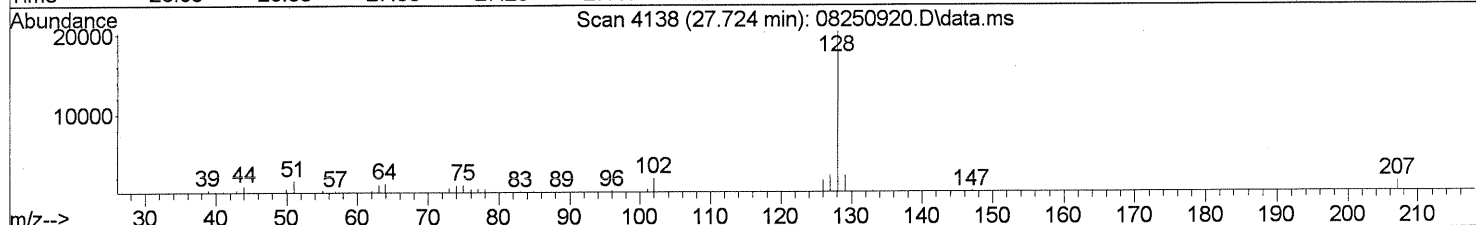
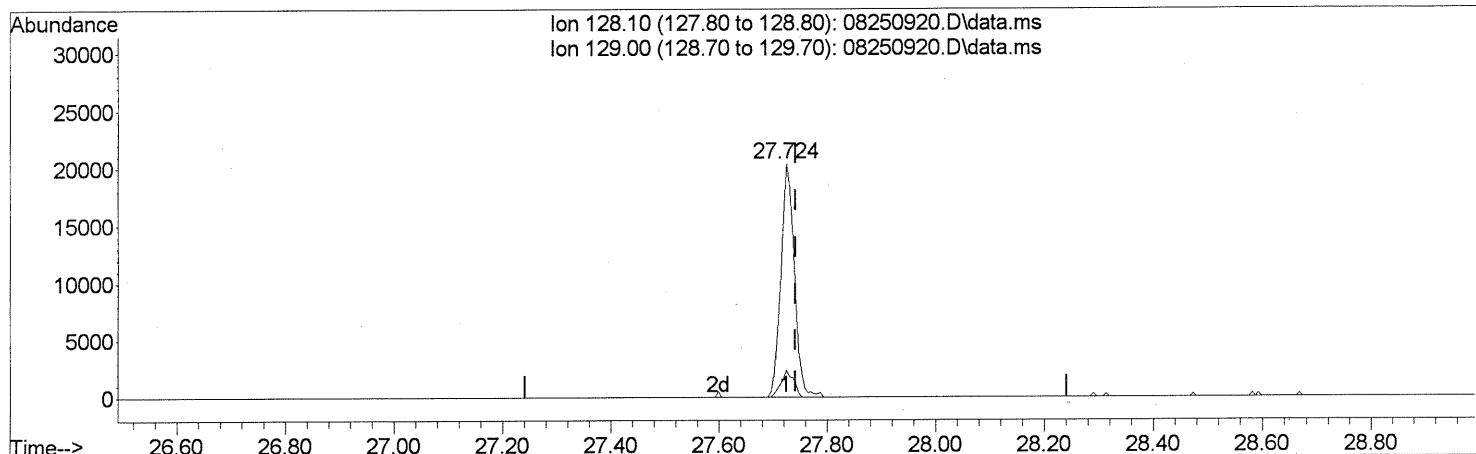
(75) alpha-Pinene (T)
 23.897min (-0.017) 0.71ng
 response 21365

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250920.D
 Acq On : 26 Aug 2009 00:23
 Operator : WA/CC
 Sample : P0902876-003 (1000mL)
 Misc : Environmental Health 102351
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 31 17:28:38 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250920.D\data.ms

(95) Naphthalene (T)
 27.724min (-0.017) 0.55ng
 response 35243

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.59
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: 102352

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01257

Date Collected: 8/18/09

Date Received: 8/20/09

Date Analyzed: 8/26/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	15	0.77	9.0	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.2	0.77	0.65	0.15	
74-87-3	Chloromethane	0.95	0.15	0.46	0.074	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	0.17	0.15	0.077	0.069	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	1,100	7.7	610	4.1	D
75-05-8	Acetonitrile	120	0.77	71	0.46	
107-02-8	Acrolein	6.2	0.77	2.7	0.33	
67-64-1	Acetone	240	7.7	100	3.2	
75-69-4	Trichlorofluoromethane	1.6	0.15	0.29	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	83	0.77	34	0.31	
107-13-1	Acrylonitrile	ND	0.77	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	Trichlorotrifluoroethane	0.70	0.15	0.092	0.020	
75-15-0	Carbon Disulfide	3.1	0.77	0.99	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.042	
108-05-4	Vinyl Acetate	9.8	7.7	2.8	2.2	
78-93-3	2-Butanone (MEK)	7.0	0.77	2.4	0.26	

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.

D = The reported result is from a dilution.

Verified By: _____ Date: 8/26/09 **131**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102352
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01257

CAS Project ID: P0902876
CAS Sample ID: P0902876-004

Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)


Initial Pressure (psig): -2.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.53

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
141-78-6	Ethyl Acetate	10	0.77	2.8	0.21	
110-54-3	n-Hexane	0.96	0.77	0.27	0.22	
67-66-3	Chloroform	2.2	0.15	0.45	0.031	
109-99-9	Tetrahydrofuran (THF)	0.78	0.77	0.26	0.26	
107-06-2	1,2-Dichloroethane	2.3	0.15	0.58	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	1.0	0.15	0.32	0.048	
56-23-5	Carbon Tetrachloride	0.63	0.15	0.10	0.024	
110-82-7	Cyclohexane	ND	0.77	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	0.41	0.15	0.061	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.77	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.77	ND	0.19	
142-82-5	n-Heptane	1.8	0.77	0.44	0.19	
10061-01-5	cis-1,3-Dichloropropene	8.1	0.77	1.8	0.17	
108-10-1	4-Methyl-2-pentanone	2.5	0.77	0.60	0.19	
10061-02-6	trans-1,3-Dichloropropene	5.8	0.77	1.3	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	23	0.77	6.1	0.20	
591-78-6	2-Hexanone	0.93	0.77	0.23	0.19	
124-48-1	Dibromochloromethane	0.23	0.15	0.027	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	5.7	0.77	1.2	0.16	

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: 8/26/09 **132**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102352
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01257

CAS Project ID: P0902876
CAS Sample ID: P0902876-004

Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)
0.20 Liter(s)

Initial Pressure (psig): -2.7 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.0	0.77	0.43	0.16	
127-18-4	Tetrachloroethene	0.29	0.15	0.042	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	1.5	0.77	0.35	0.18	
179601-23-1	m,p-Xylenes	3.5	0.77	0.80	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.074	
100-42-5	Styrene	3.2	0.77	0.76	0.18	
95-47-6	o-Xylene	1.5	0.77	0.34	0.18	
111-84-2	n-Nonane	4.1	0.77	0.78	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.77	ND	0.16	
80-56-8	alpha-Pinene	120	0.77	21	0.14	
103-65-1	n-Propylbenzene	ND	0.77	ND	0.16	
622-96-8	4-Ethyltoluene	ND	0.77	ND	0.16	
108-67-8	1,3,5-Trimethylbenzene	ND	0.77	ND	0.16	
95-63-6	1,2,4-Trimethylbenzene	2.4	0.77	0.48	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	0.33	0.15	0.055	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	49	0.77	8.8	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	ND	0.77	ND	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

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: _____

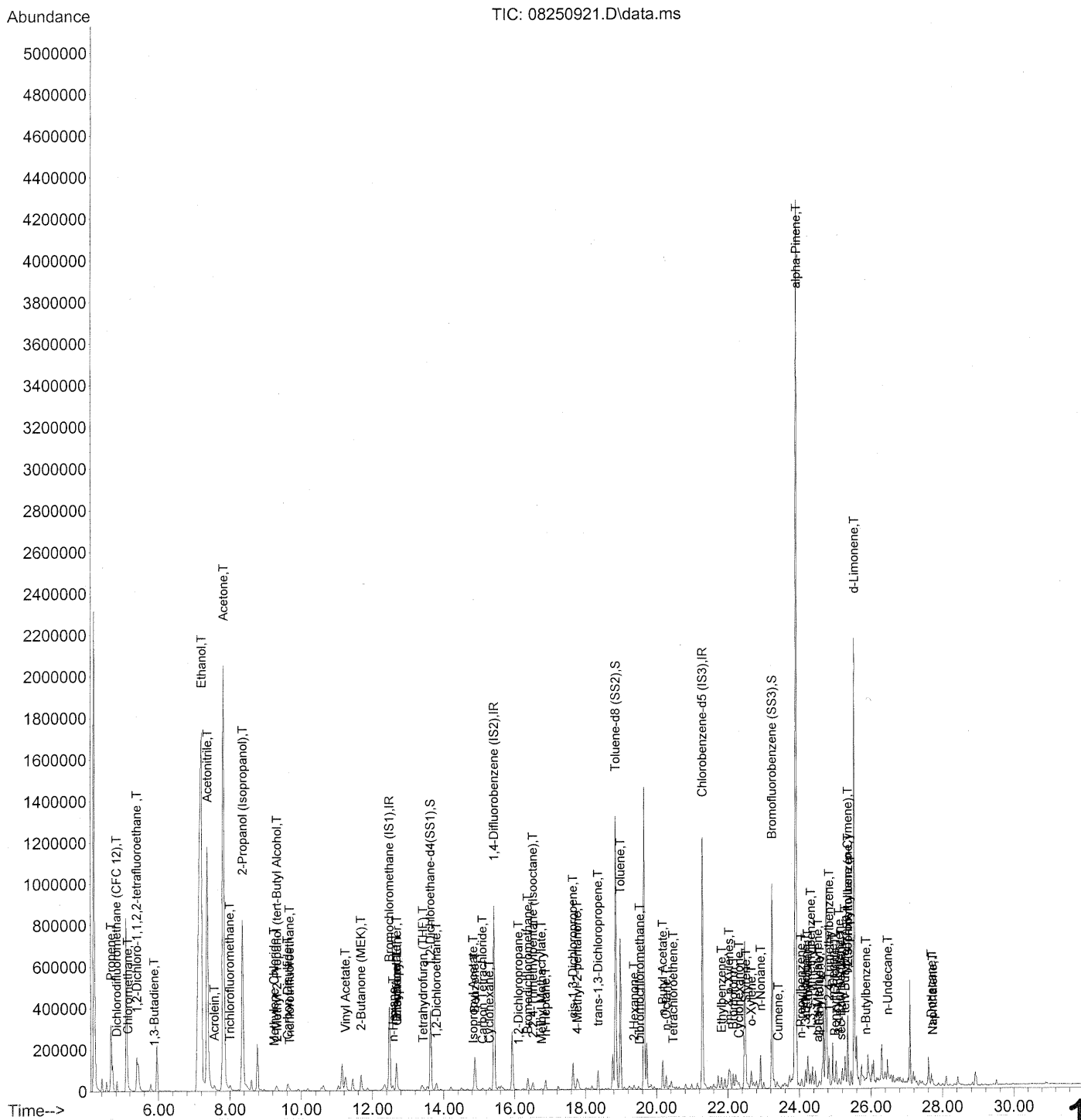
Date: _____

9/8/09

133

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05 am
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 17:34:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05 am
 Operator : WA/CC
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 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

09/11/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	207019	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1035350	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	505764	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	390238	21.688	ng	-0.03
Spiked Amount	25.000			Recovery =	86.76%	
57) Toluene-d8 (SS2)	18.85	98	1135593	25.697	ng	-0.02
Spiked Amount	25.000			Recovery =	102.80%	
73) Bromofluorobenzene (SS3)	23.23	174	324981	27.886	ng	-0.01
Spiked Amount	25.000			Recovery =	111.56%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	143817m	10.124	ng	
3) Dichlorodifluoromethan...	4.83	85	49122	2.116	ng	99
4) Chloromethane	5.15	50	9731	0.624	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	2170	0.230	ng	96
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	1193	0.111	ng	# 67
8) Bromomethane	6.35	94	107	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.21	45	6035377	670.238	ng	100
11) Acetonitrile	7.37	41	2042030	77.433	ng	99
12) Acrolein	7.56	56	27674	4.037	ng	94
13) Acetone	7.82	58	1325097	155.960	ng	91
14) Trichlorofluoromethane	8.00	101	22225	1.059	ng	100
15) 2-Propanol (Isopropanol)	8.36	45	1818496	54.464	ng	99
16) Acrylonitrile	8.58	53	413	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.32	59	13316	0.449	ng	# 67
19) Methylene Chloride	9.24	84	2195	0.192	ng	# 76
20) 3-Chloro-1-propene (Al...	9.42	41	109	N.D.		
21) Trichlorotrifluoroethane	9.67	151	3510	0.460	ng	96
22) Carbon Disulfide	9.62	76	81172	2.018	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	11.23	73	97	N.D.		
26) Vinyl Acetate	11.24	86	11059	6.396	ng	# 43
27) 2-Butanone (MEK)	11.68	72	35070	4.571	ng	# 89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	3076	0.300	ng	# 1
30) Ethyl Acetate	12.67	61	26705	6.682	ng	99
31) n-Hexane	12.58	57	12856	0.629	ng	98

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135

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05 am
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 17:34:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	25847	1.436	ng	99
34) Tetrahydrofuran (THF)	13.42	72	4167	0.510	ng	# 1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	25178	1.531	ng	99
38) 1,1,1-Trichloroethane	14.17	97	94	N.D.		
39) Isopropyl Acetate	14.83	61	2183	0.284	ng	# 1
40) 1-Butanol	15.03	56	584	N.D.		
41) Benzene	14.87	78	30866	0.678	ng	99
42) Carbon Tetrachloride	15.09	117	6015	0.415	ng	99
43) Cyclohexane	15.28	84	6851	0.411	ng	94
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.11	63	1018	0.089	ng	# 66
46) Bromodichloromethane	16.37	83	4009	0.267	ng	86
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.52	88	115	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	34564	0.645	ng	89
50) Methyl Methacrylate	16.76	100	328	0.078	ng	# 1
51) n-Heptane	16.87	71	14422	1.181	ng	99
52) cis-1,3-Dichloropropene	17.65	75	100090	5.283	ng	100
53) 4-Methyl-2-pentanone	17.76	58	17567	1.606	ng	97
54) trans-1,3-Dichloropropene	18.36	75	68317	3.792	ng	99
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	651732	15.006	ng	99
59) 2-Hexanone	19.36	43	17576	0.609	ng	99
60) Dibromochloromethane	19.52	129	1524	0.148	ng	93
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	127552	3.747	ng	97
63) n-Octane	20.27	57	13881	1.322	ng	99
64) Tetrachloroethene	20.46	166	1885	0.188	ng	89
65) Chlorobenzene	0.00	112	0	N.D.	d	
66) Ethylbenzene	21.82	91	48985	0.987	ng	98
67) m- & p-Xylenes	22.03	91	91355	2.275	ng	98
68) Bromoform	22.15	173	469	0.055	ng	# 29
69) Styrene	22.50	104	61458	2.117	ng	# 63
70) o-Xylene	22.65	91	38947	0.967	ng	98
71) n-Nonane	22.91	43	71485	2.672	ng	99
72) 1,1,2,2-Tetrachloroethane	22.64	83	794	N.D.		
74) Cumene	23.41	105	5208	0.102	ng	97
75) alpha-Pinene	23.90	93	2027191	77.749	ng	77
76) n-Propylbenzene	24.04	91	15087	0.236	ng	# 89
77) 3-Ethyltoluene	24.17	105	39477	0.812	ng	99
78) 4-Ethyltoluene	24.22	105	21149	0.449	ng	92
79) 1,3,5-Trimethylbenzene	24.31	105	19467	0.490	ng	99

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05 am
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 31 17:34:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

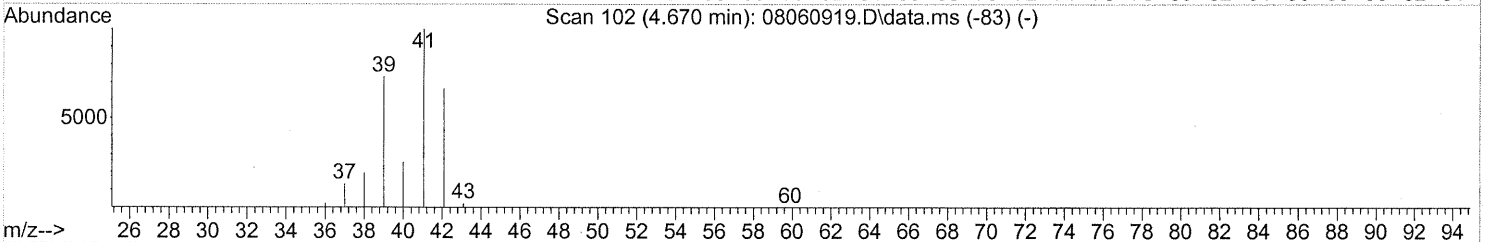
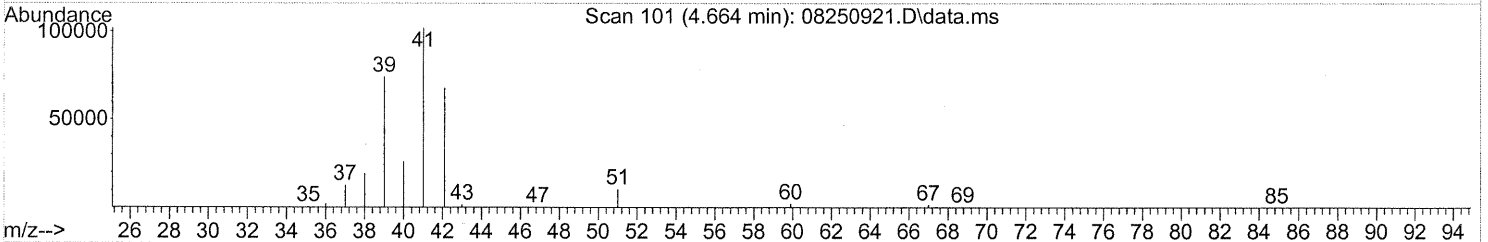
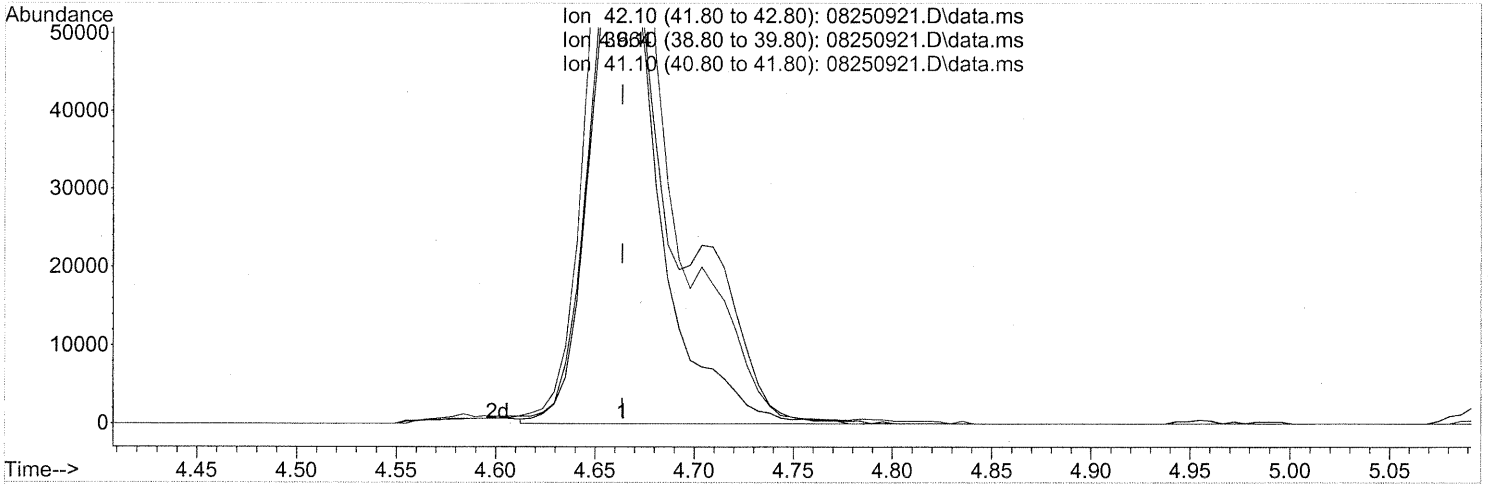
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1111	0.052	ng	# 85
81) 2-Ethyltoluene	24.55	105	18313	0.374	ng	96
82) 1,2,4-Trimethylbenzene	24.82	105	62511	1.543	ng	89
83) n-Decane	24.93	57	84226	3.198	ng	90
84) Benzyl Chloride	24.99	91	2550	0.067	ng	84
85) 1,3-Dichlorobenzene	25.02	146	189	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	4718	0.216	ng	99
87) sec-Butylbenzene	25.16	105	3232	0.059	ng	84
88) 4-Isopropyltoluene (p-...	25.35	119	164816	3.377	ng	92
89) 1,2,3-Trimethylbenzene	25.35	105	25214	0.611	ng	# 32
90) 1,2-Dichlorobenzene	25.53	146	256	N.D.		
91) d-Limonene	25.53	68	551593	32.017	ng	81
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	37459	1.337	ng	# 66
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	17577	0.319	ng	98
96) n-Dodecane	27.69	57	19510	0.599	ng	94
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	17171	0.954	ng	89
99) tert-Butylbenzene	25.27	119	5645	0.144	ng	97
100) n-Butylbenzene	25.86	91	10899	0.242	ng	# 53

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (-0.000) 10.79ng

SH

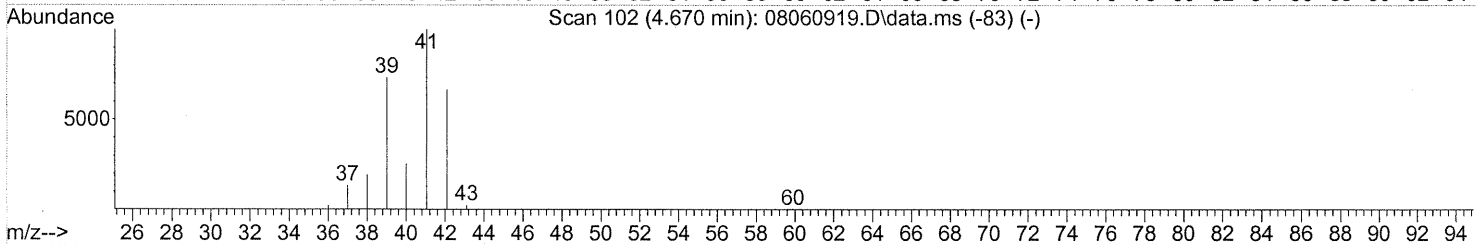
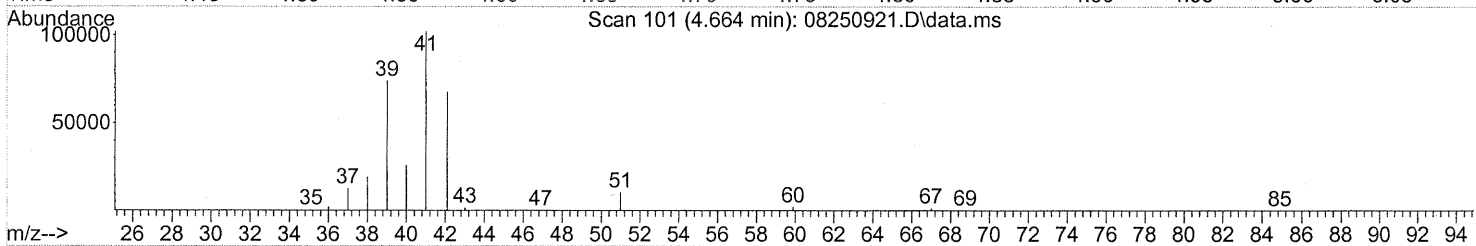
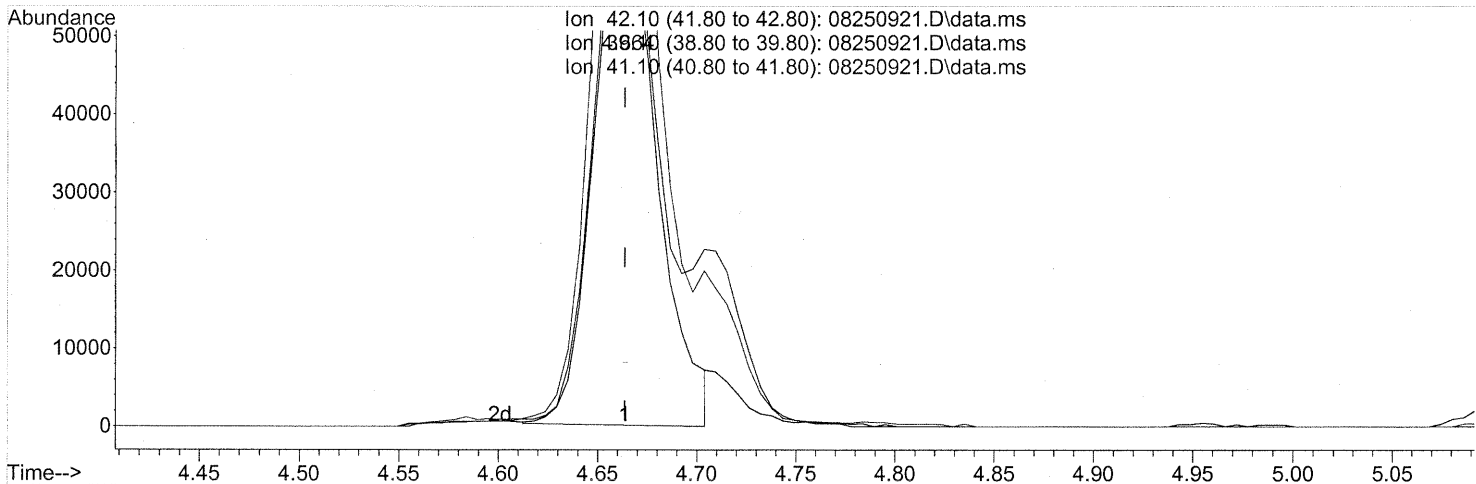
response 153332

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	129.51
41.10	150.20	161.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
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 Response via : Initial Calibration



(2) Propene (T)
 4.664min (-0.000) 10.12ng m
 response 143817

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	138.07#
41.10	150.20	172.12#
0.00	0.00	0.00

SA → IC

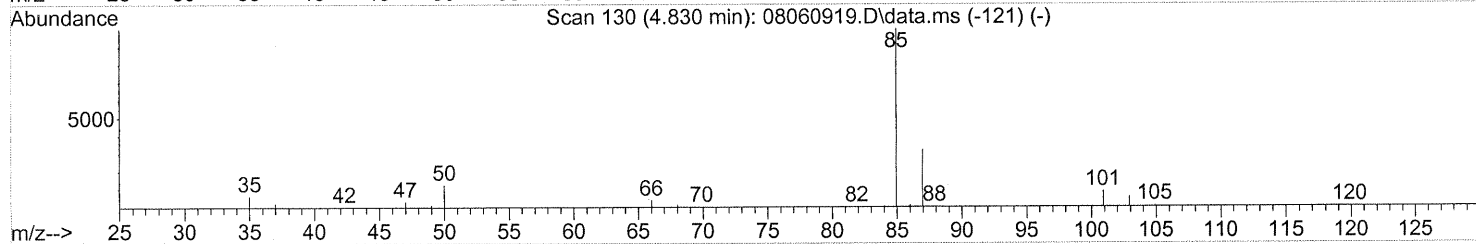
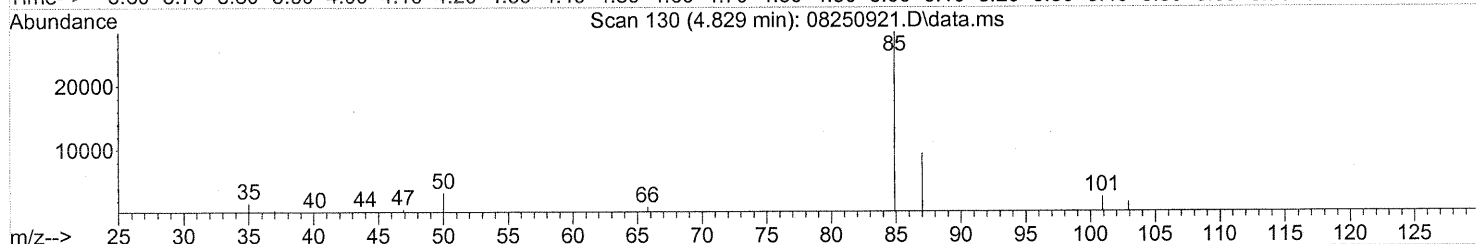
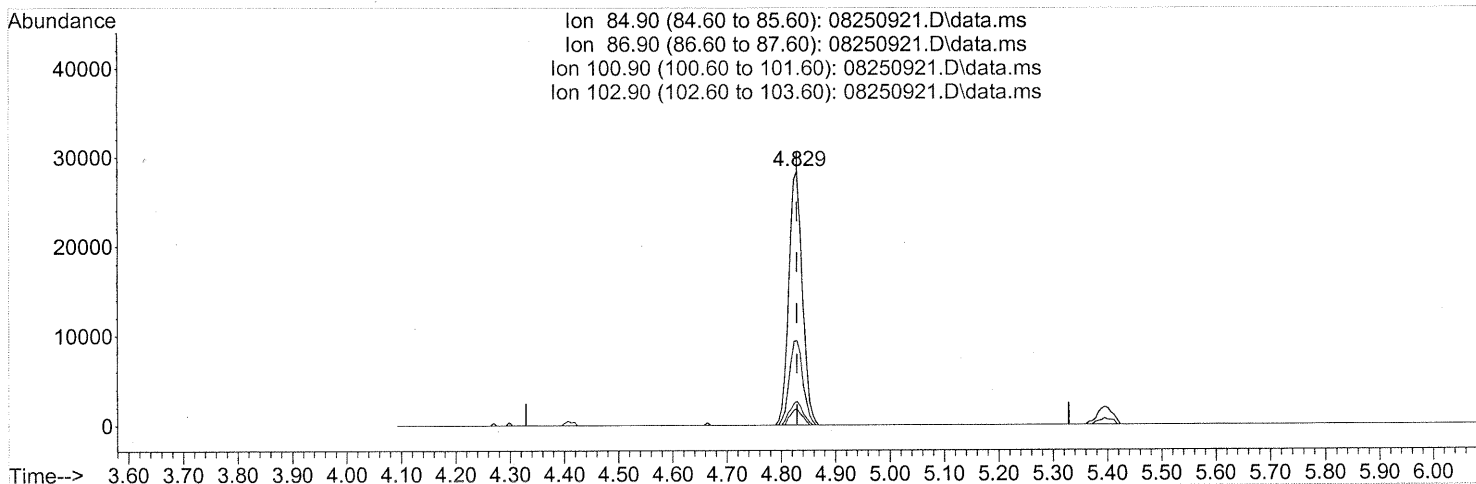
W 8/31/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
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(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (-0.000) 2.12ng

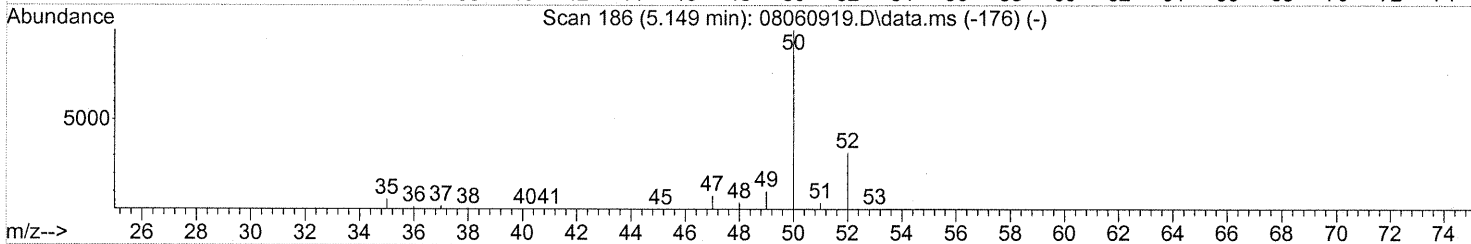
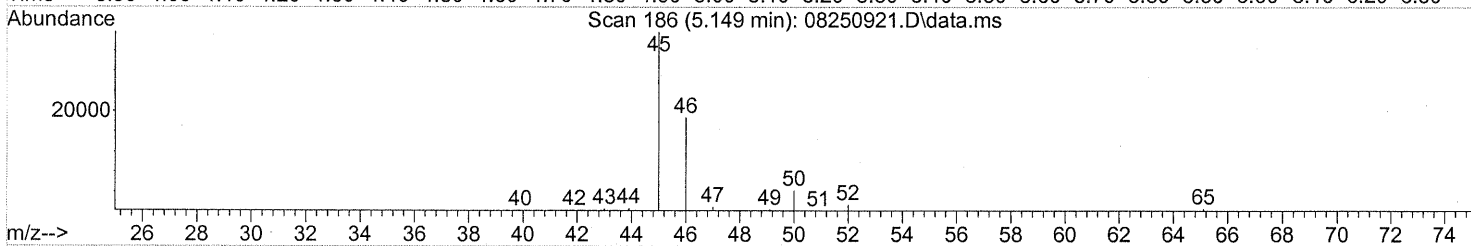
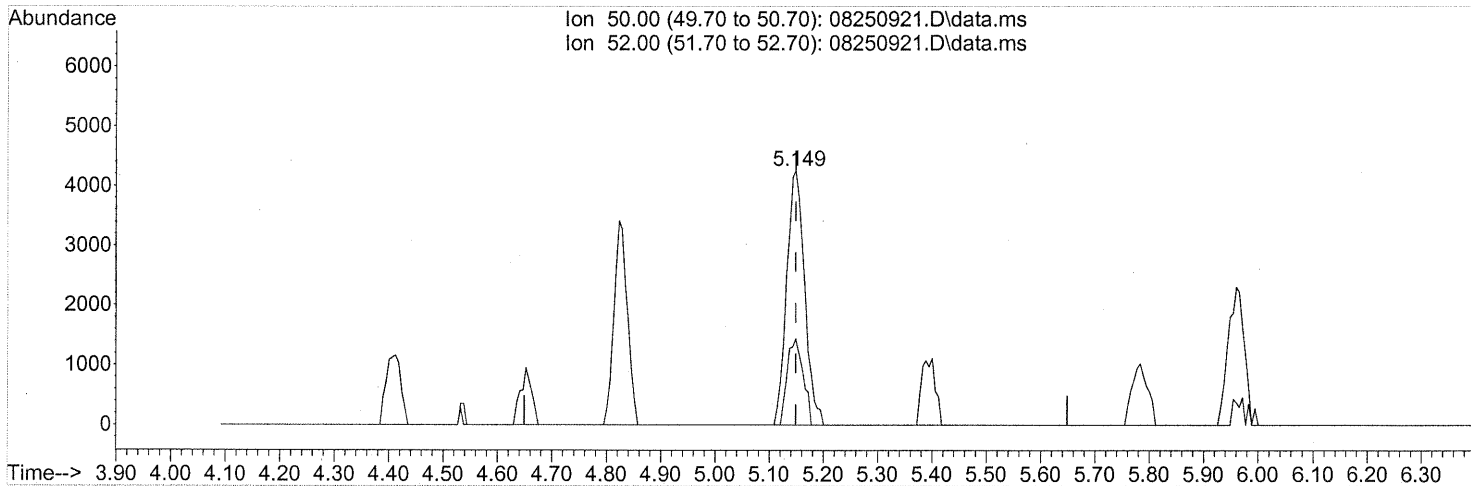
response 49122

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	33.66
100.90	8.80	9.00
102.90	5.20	5.42

Quantitation Report (Qedit)

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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.149min (-0.000) 0.62ng
 response 9731

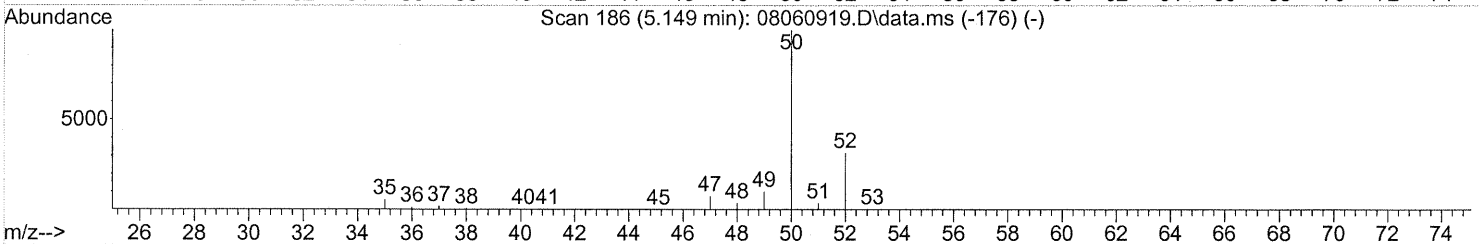
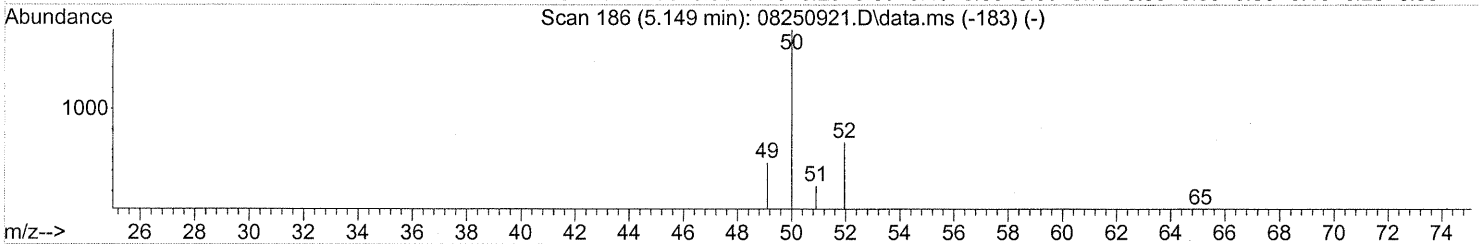
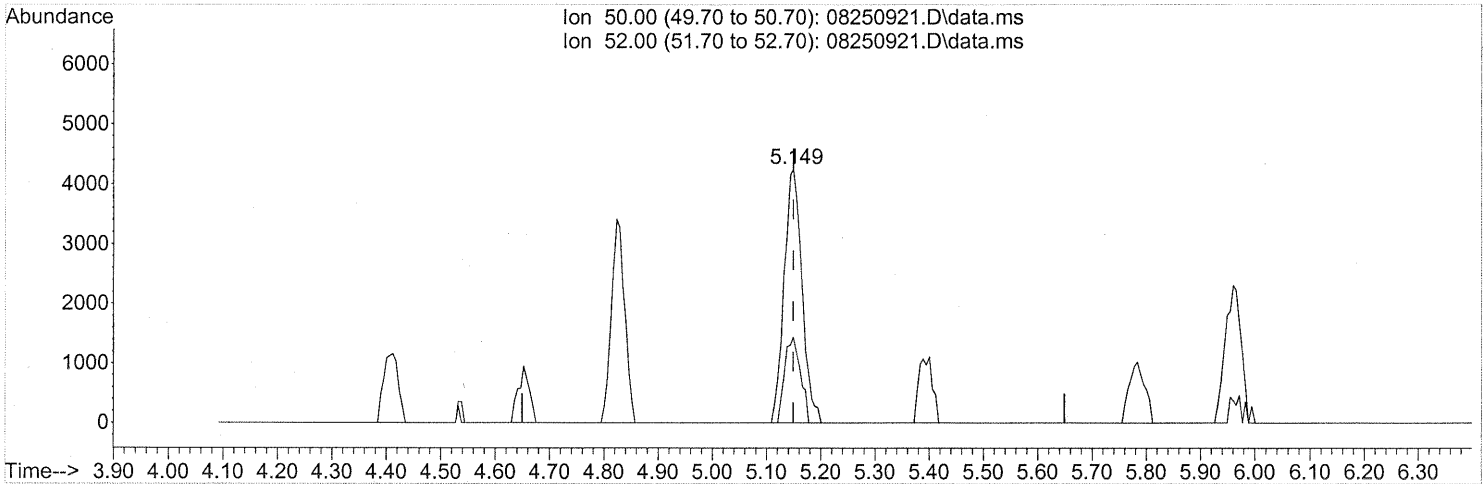
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.76
0.00	0.00	0.00
0.00	0.00	0.00

Before subtn.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
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 Response via : Initial Calibration



(4) Chloromethane (T)
 5.149min (-0.000) 0.62ng
 response 9731

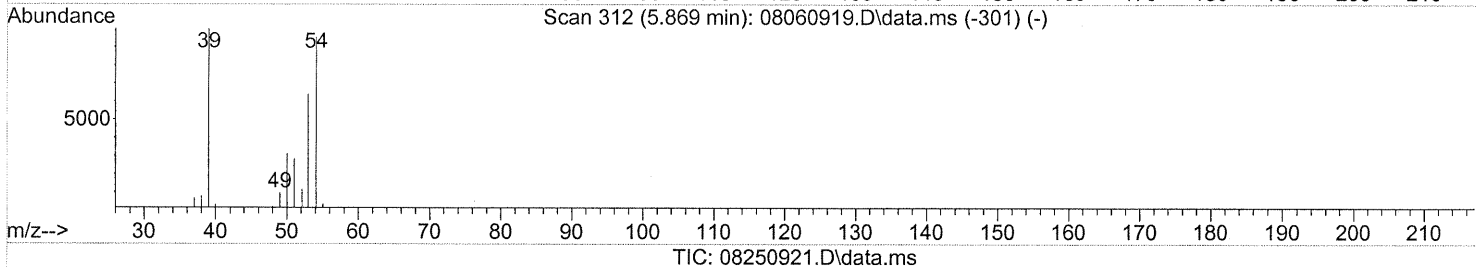
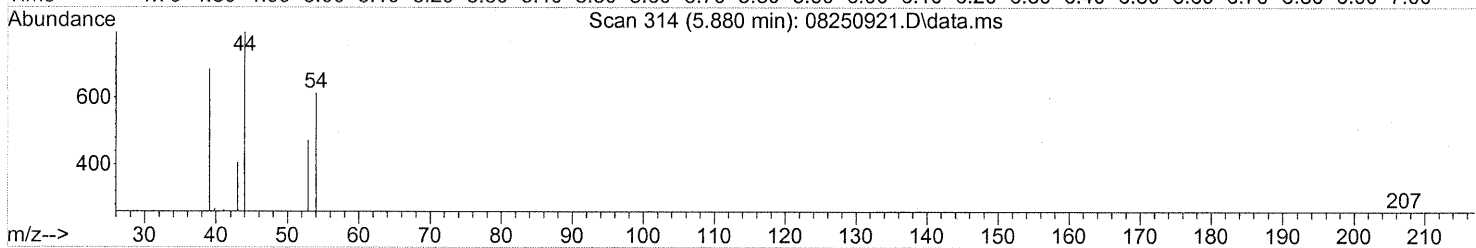
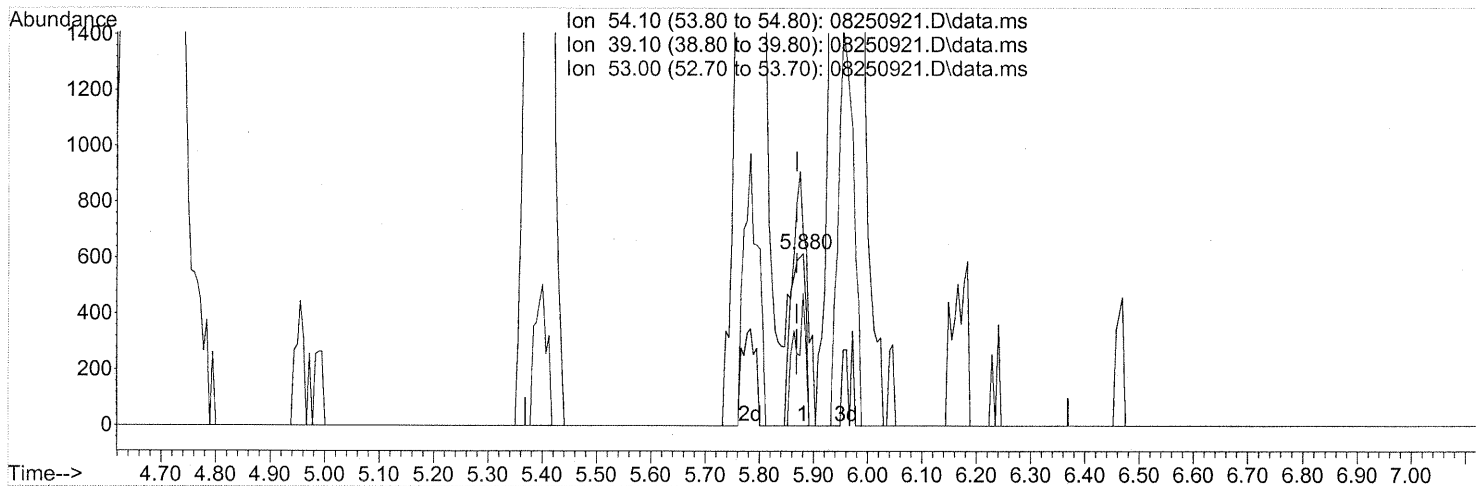
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	29.76
0.00	0.00	0.00
0.00	0.00	0.00

After subts.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.880min (+0.011) 0.11ng

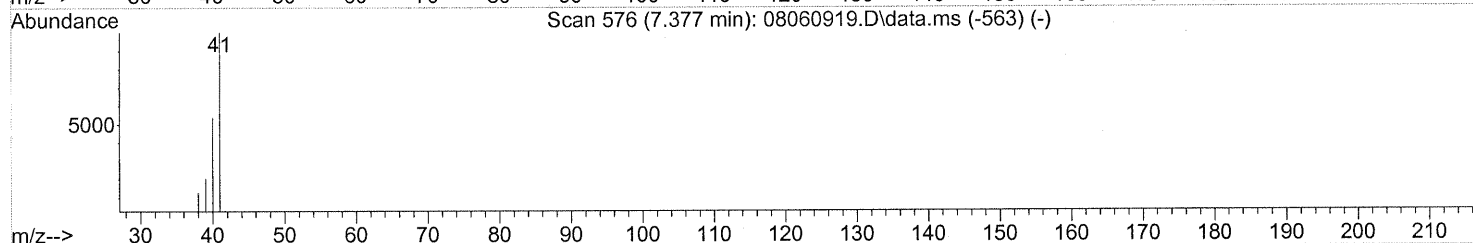
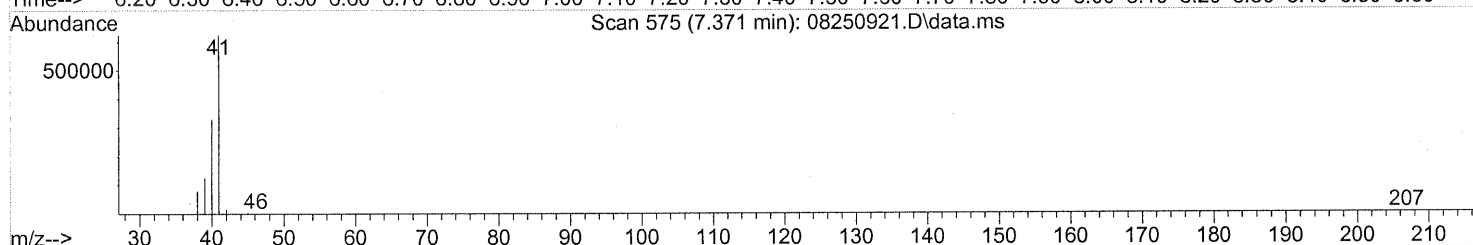
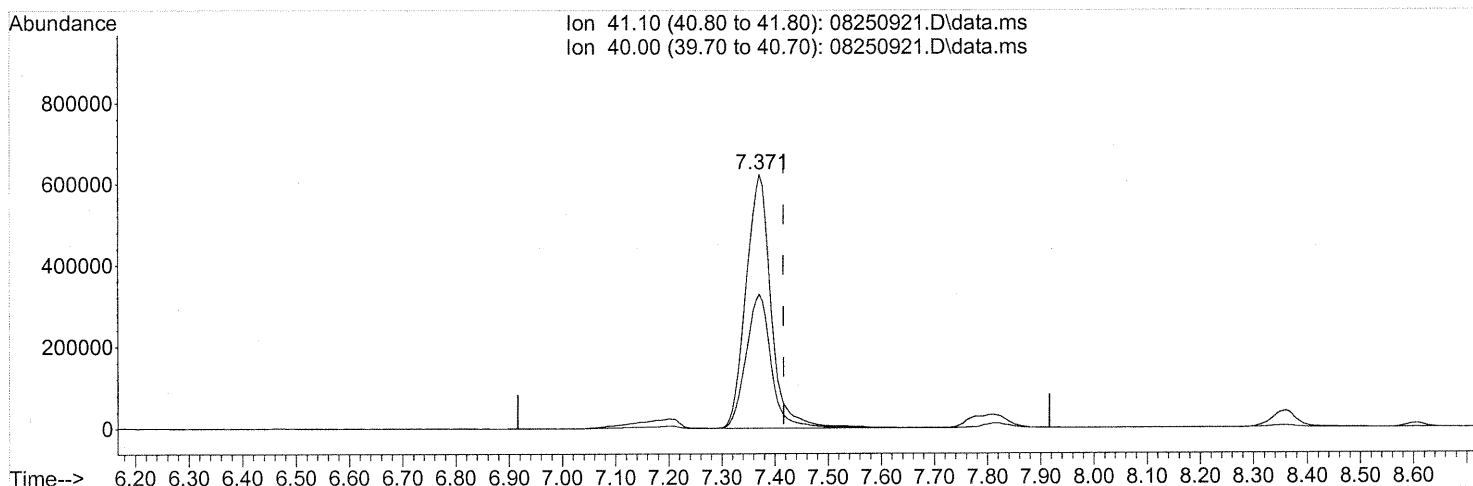
response 1193

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	148.45#
53.00	69.50	52.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
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 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

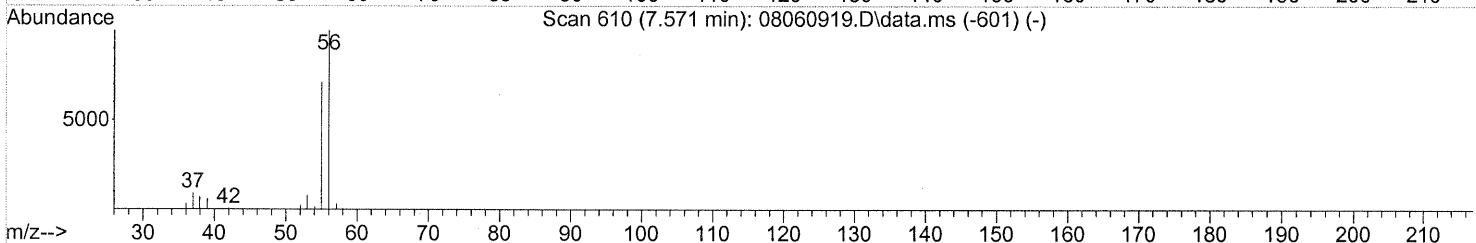
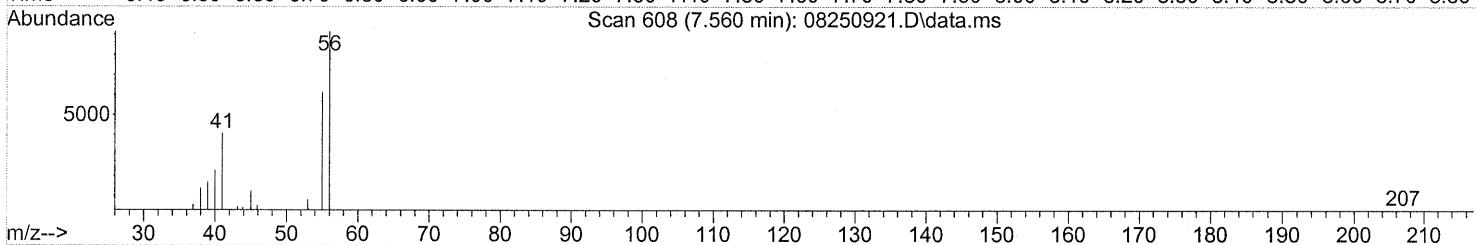
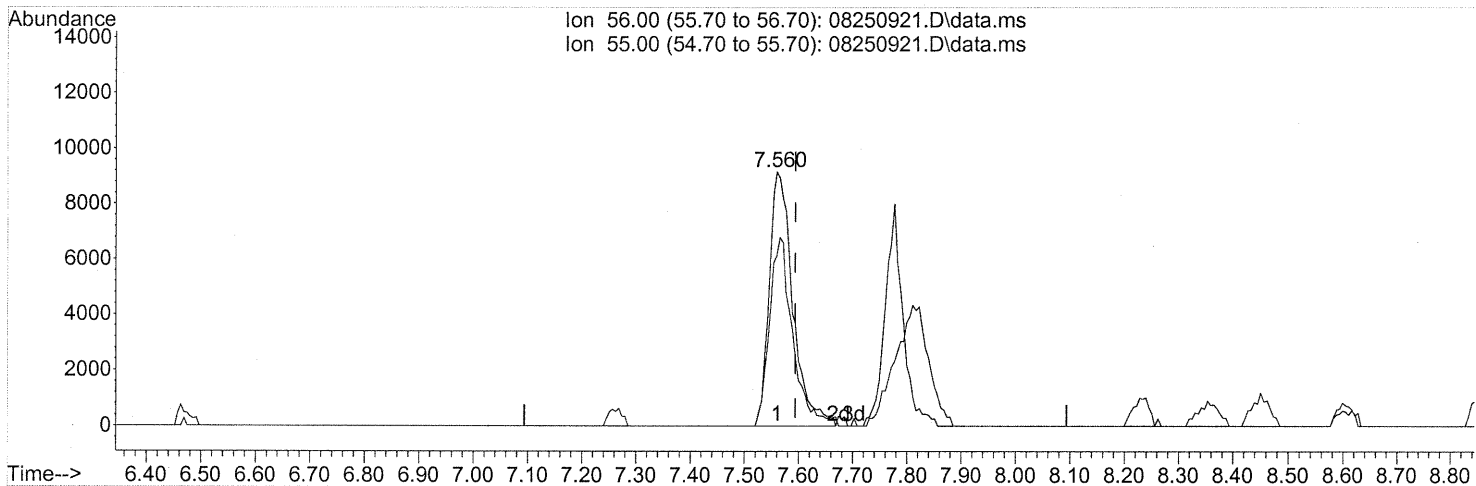
(11) Acetonitrile (T)
 7.371min (-0.046) 77.43ng
 response 2042030

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

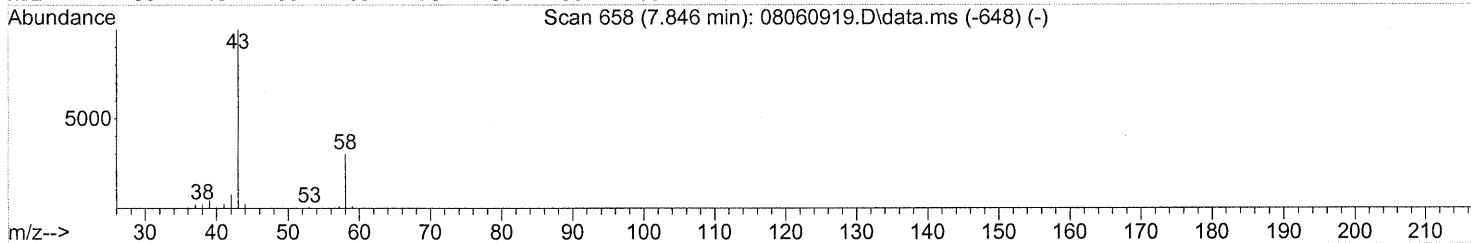
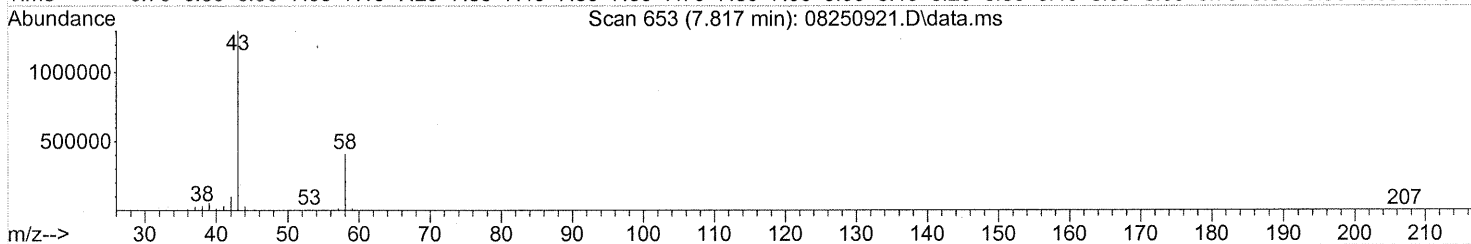
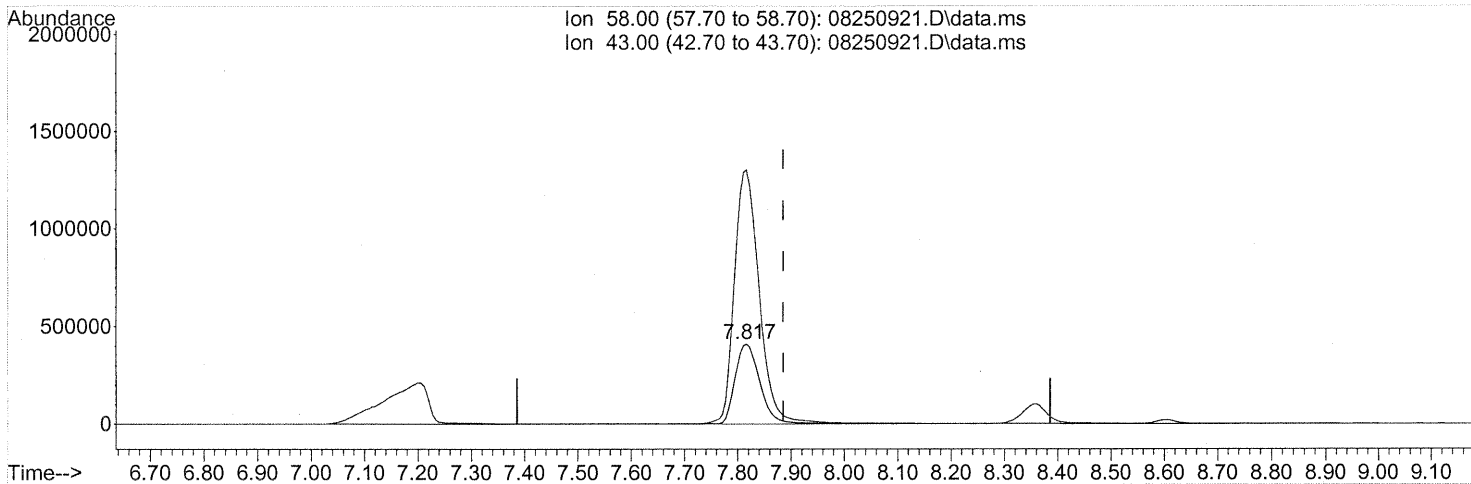
(12) Acrolein (T)
 7.560min (-0.034) 4.04ng
 response 27674

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	72.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250921.D
Acq On : 26 Aug 2009 1:05
Operator : WA/CC
Sample : P0902876-004 (1000mL)
Misc : Environmental Health 102352
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250921.D\data.ms

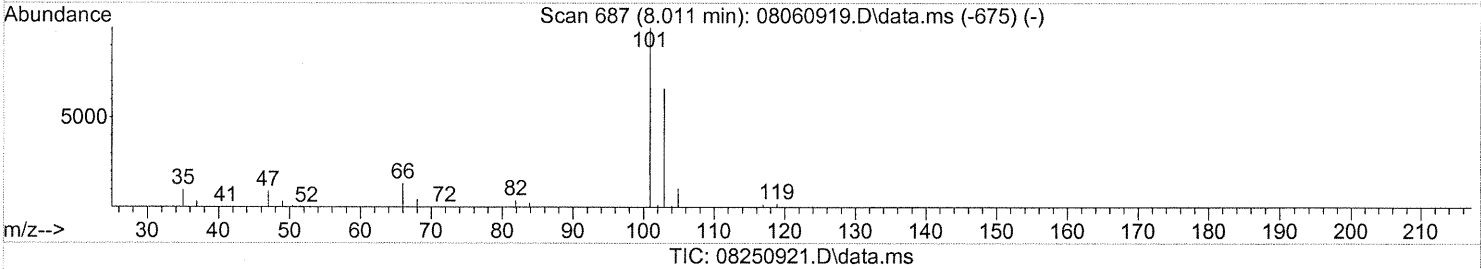
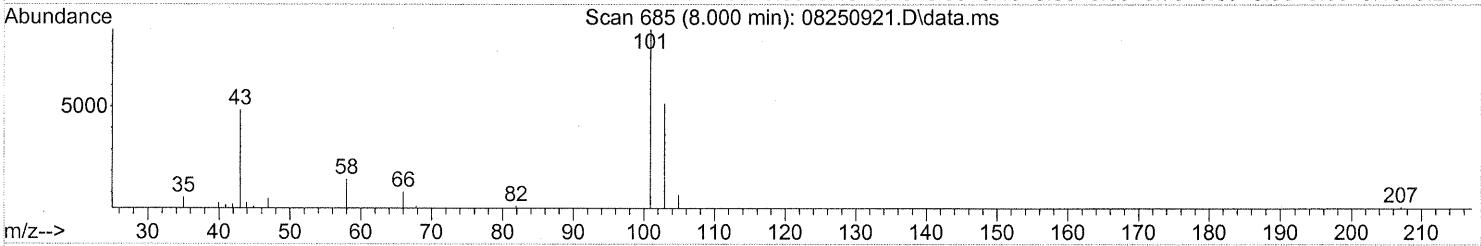
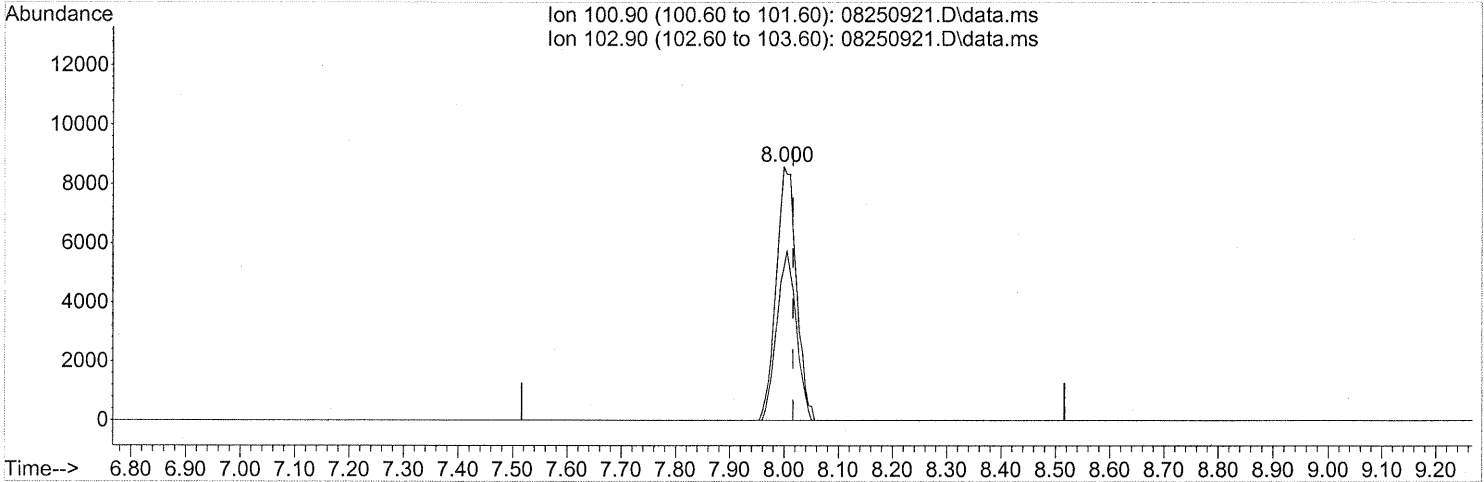
(13) Acetone (T)
7.817min (-0.069) 155.96ng
response 1325097

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	320.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.000min (-0.017) 1.06ng

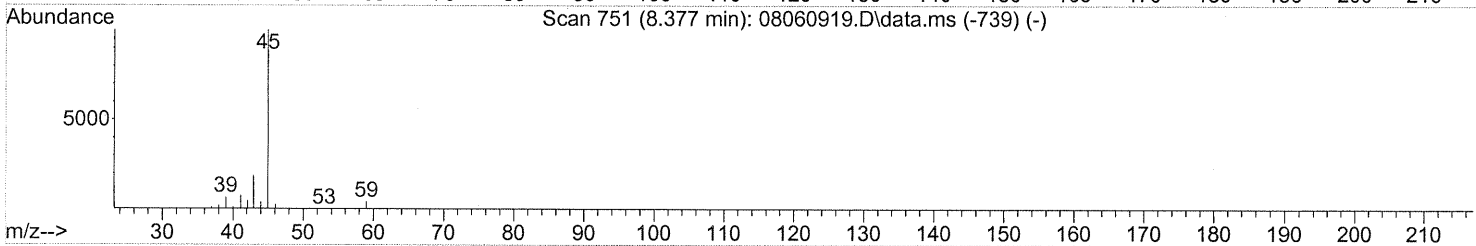
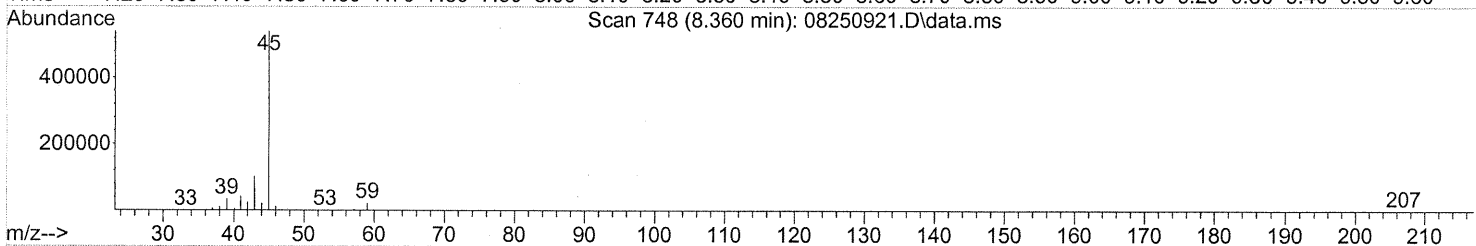
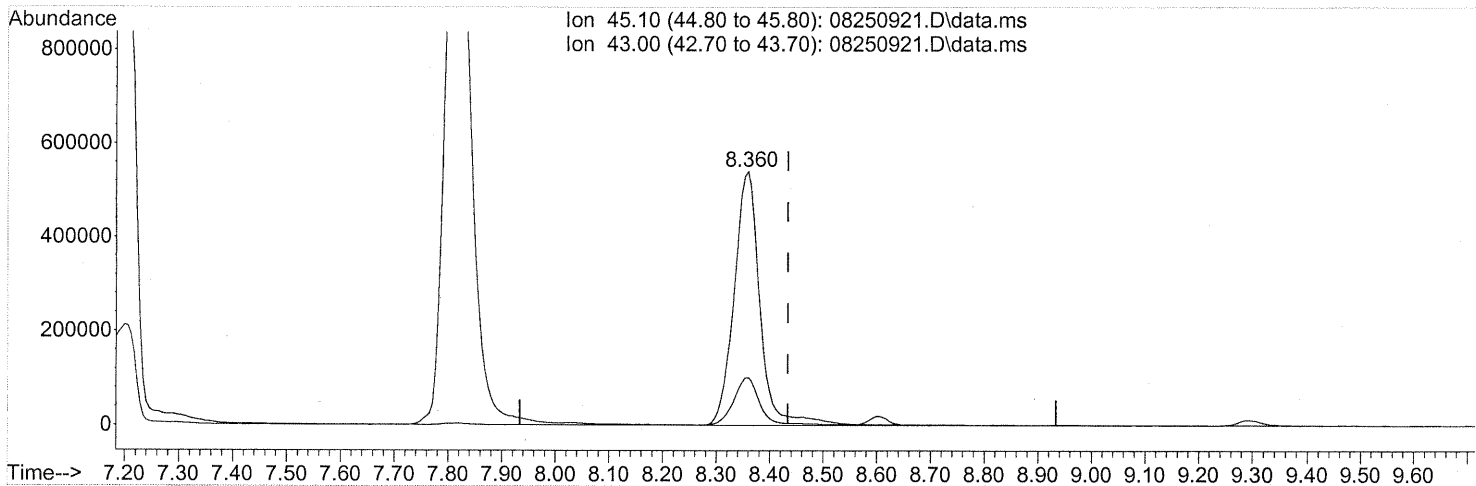
response 22225

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.360min (-0.074) 54.46ng

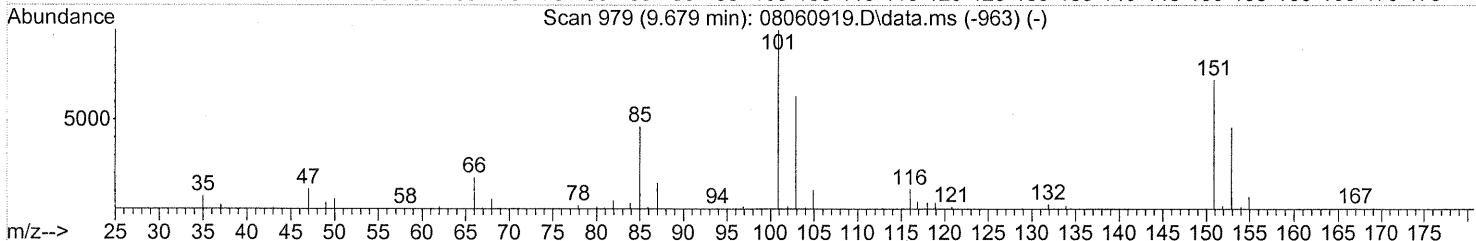
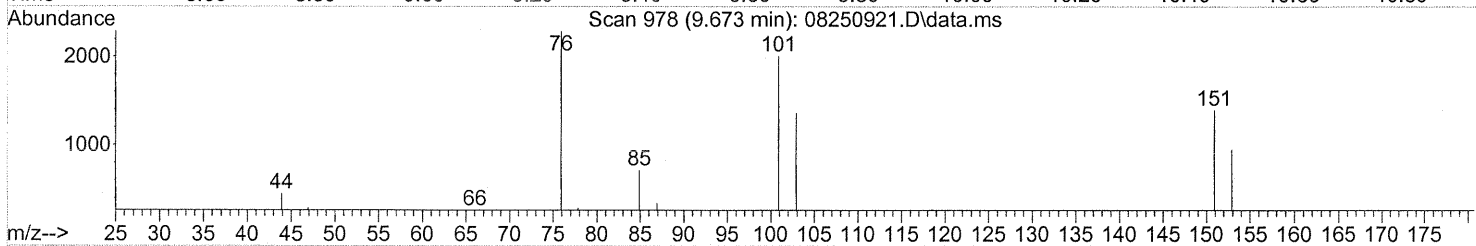
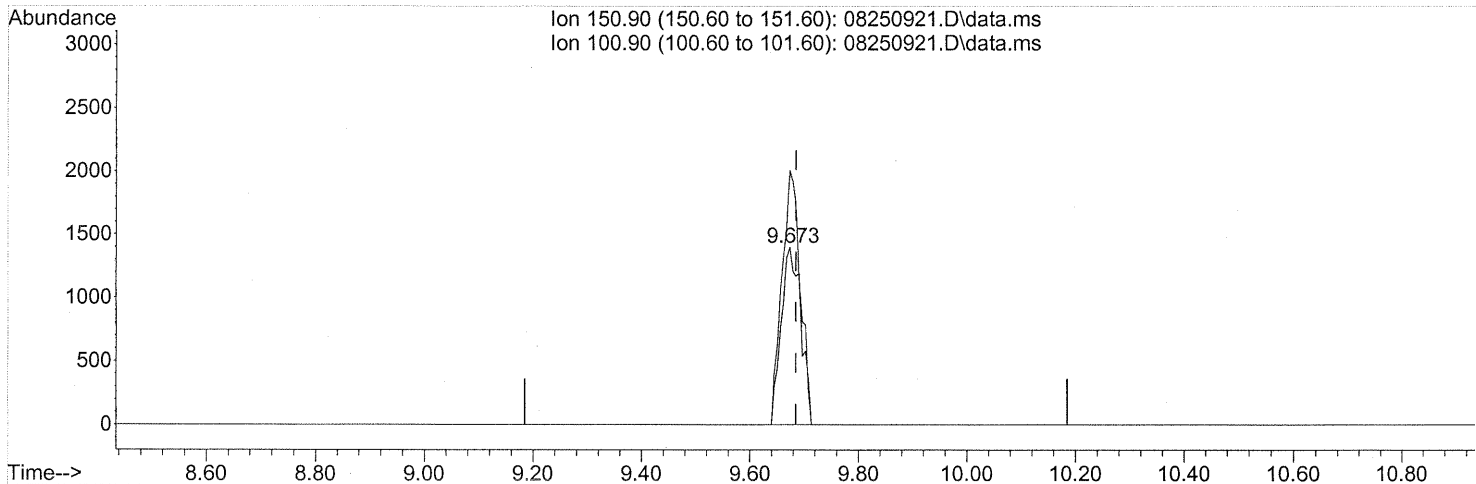
response 1818496

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.673min (-0.011) 0.46ng

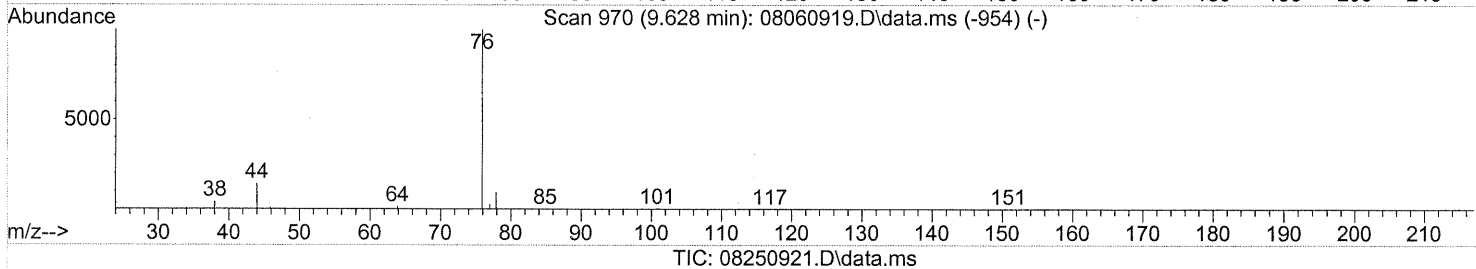
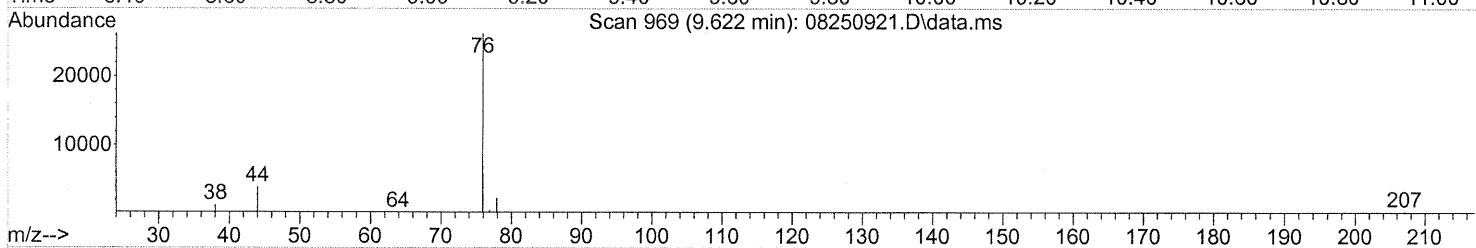
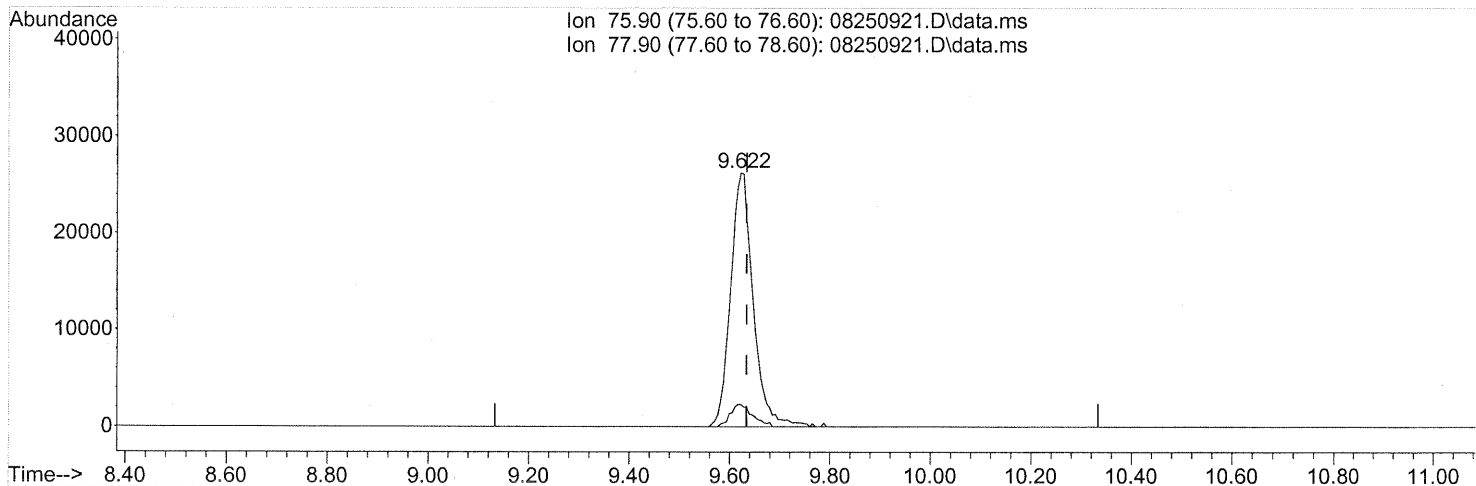
response 3510

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	133.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.622min (-0.011) 2.02ng

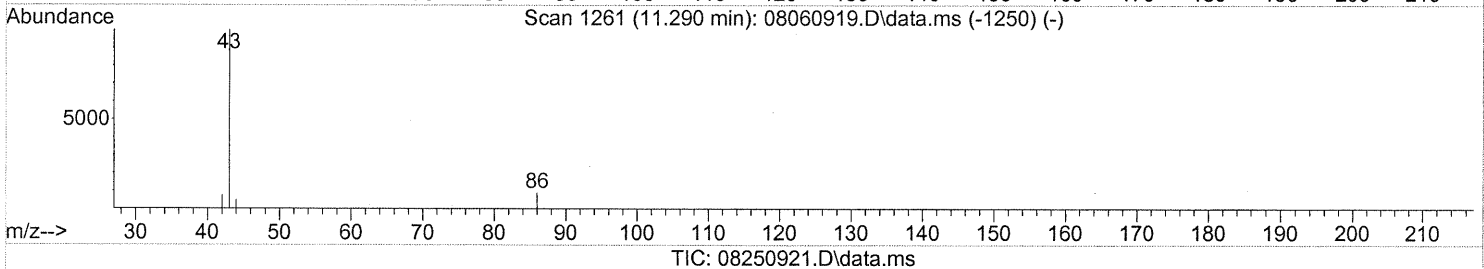
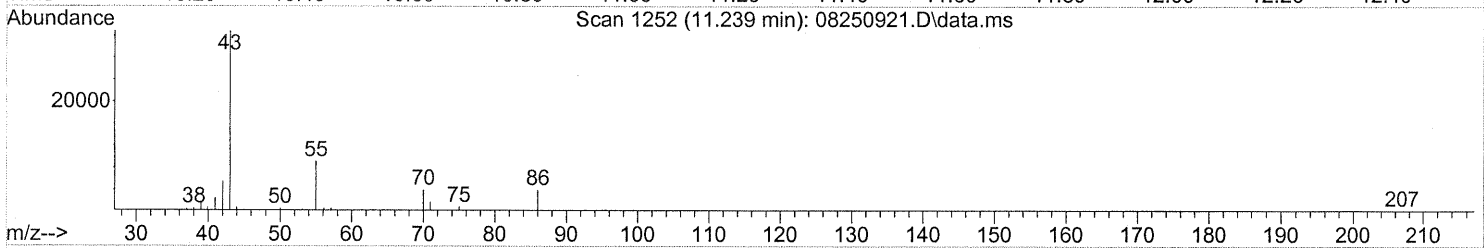
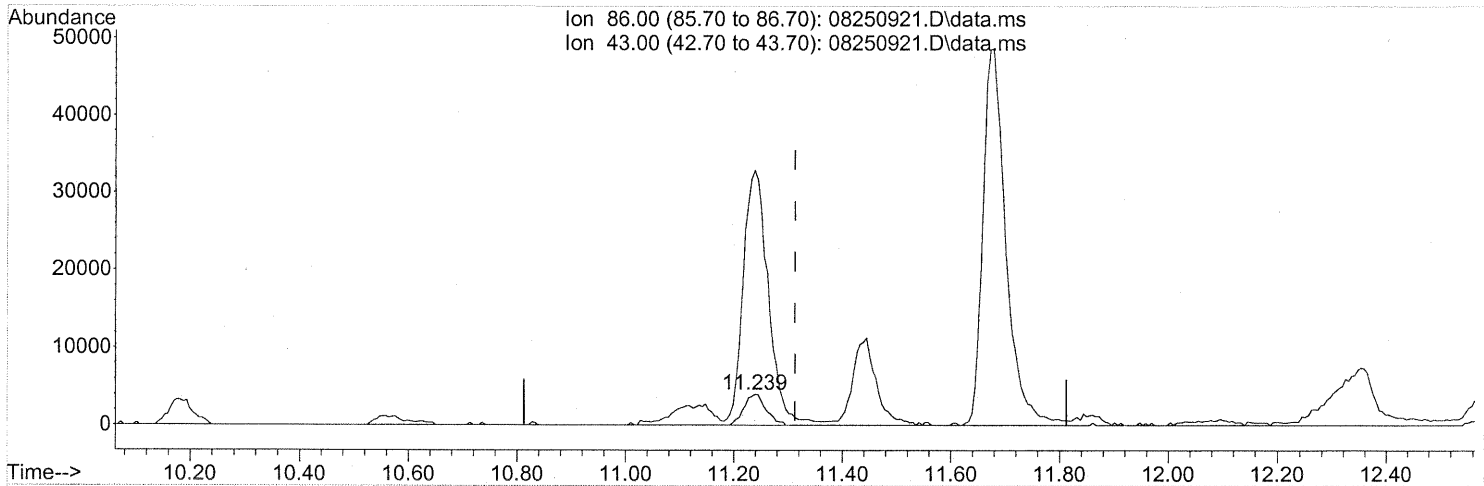
response 81172

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.239min (-0.074) 6.40ng

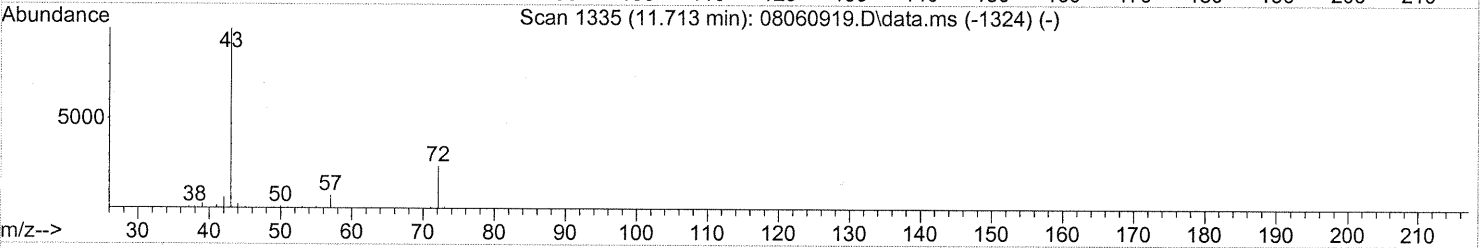
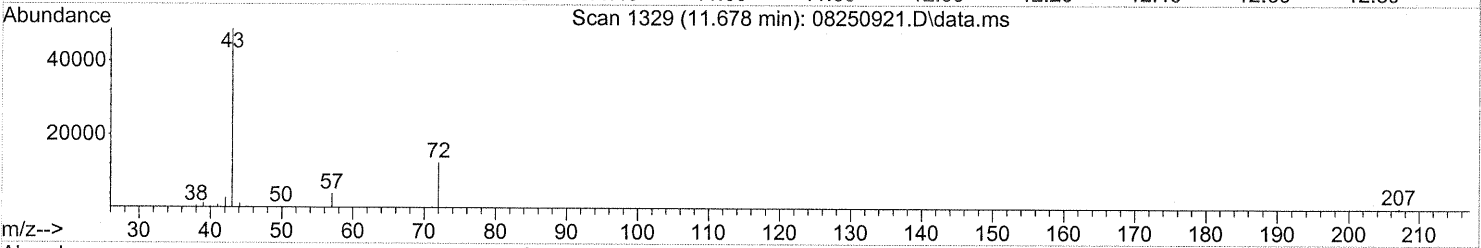
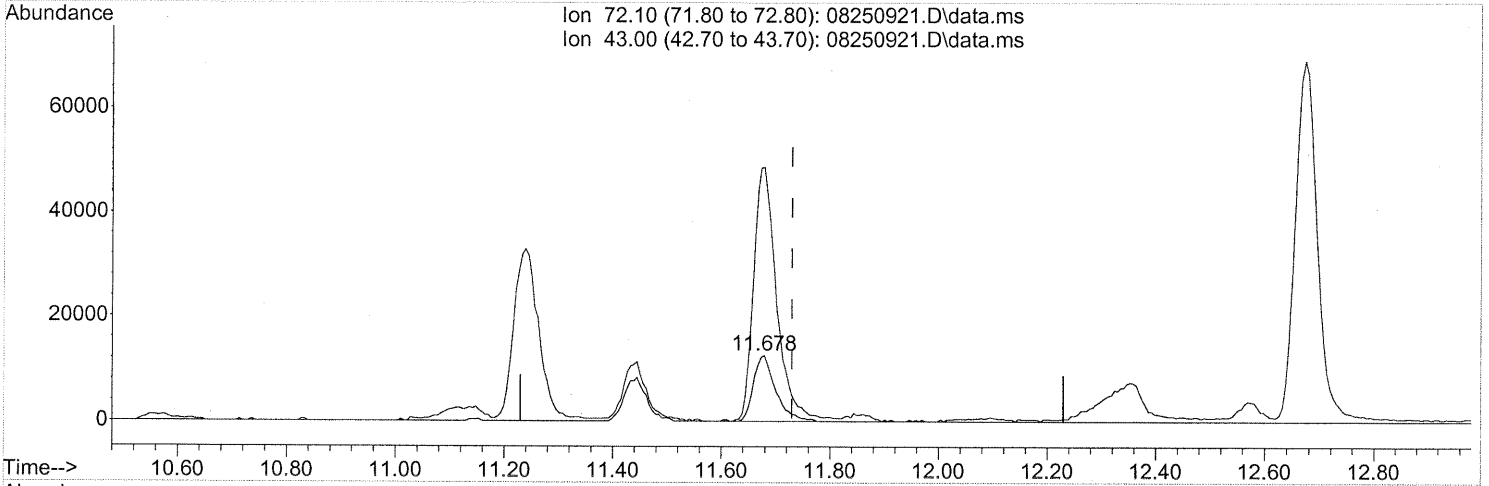
response 11059

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	921.32#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

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

11.678min (-0.051) 4.57ng

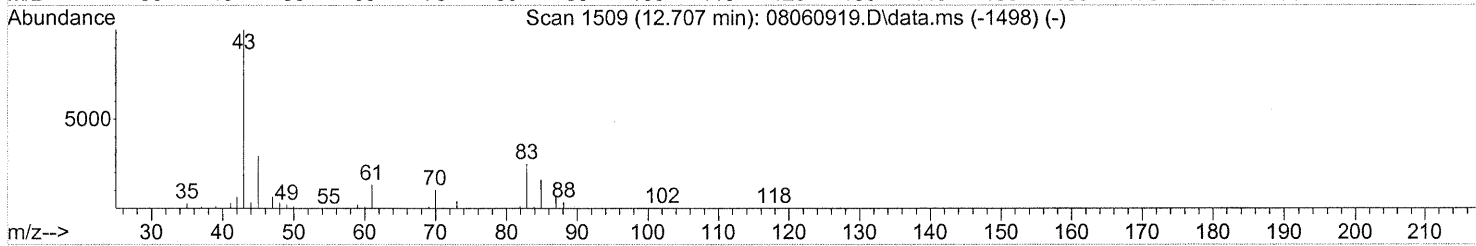
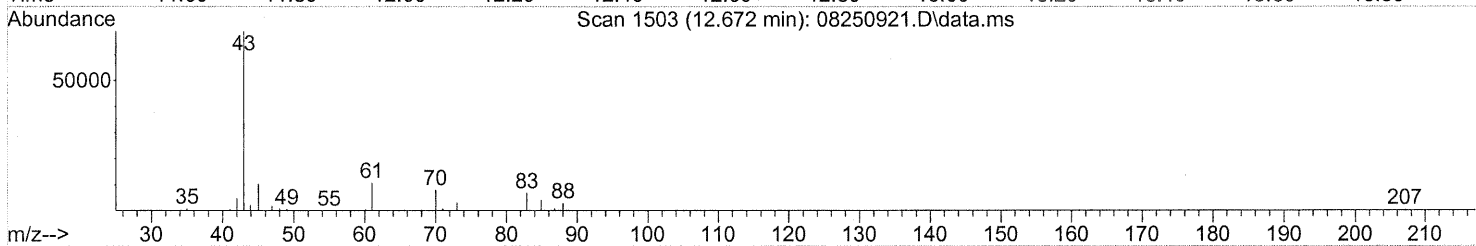
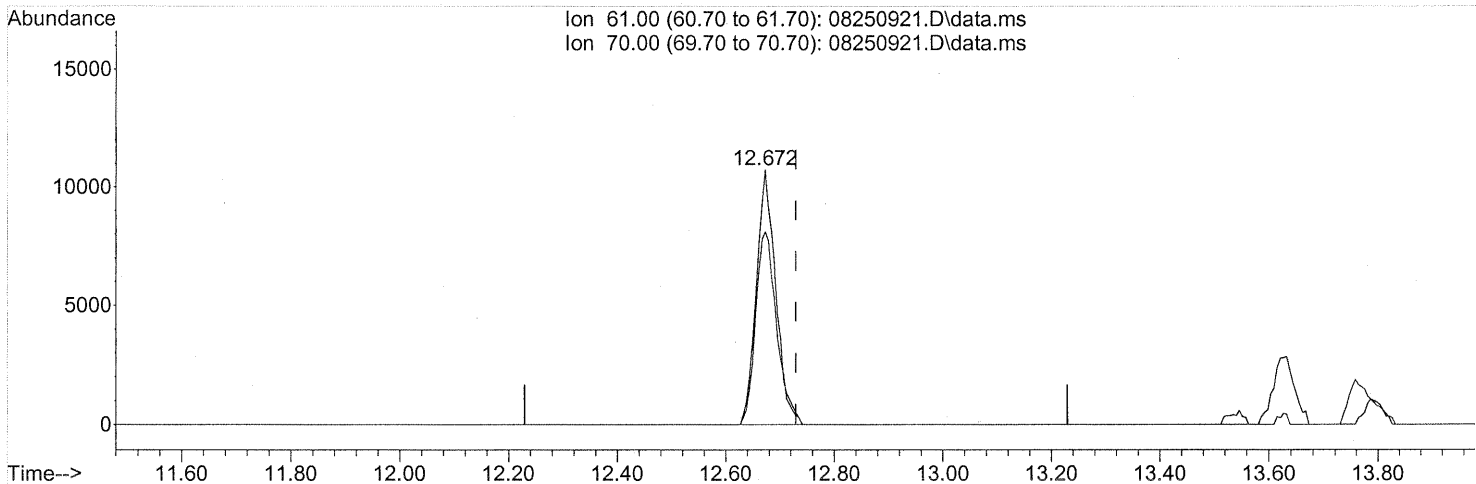
response 35070

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	409.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



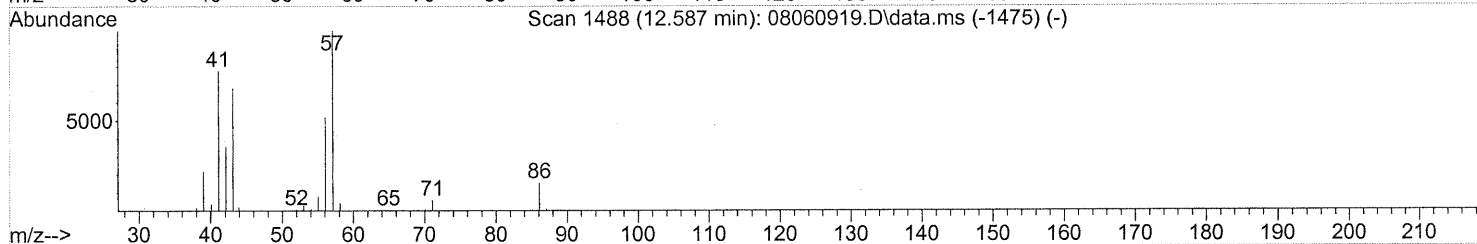
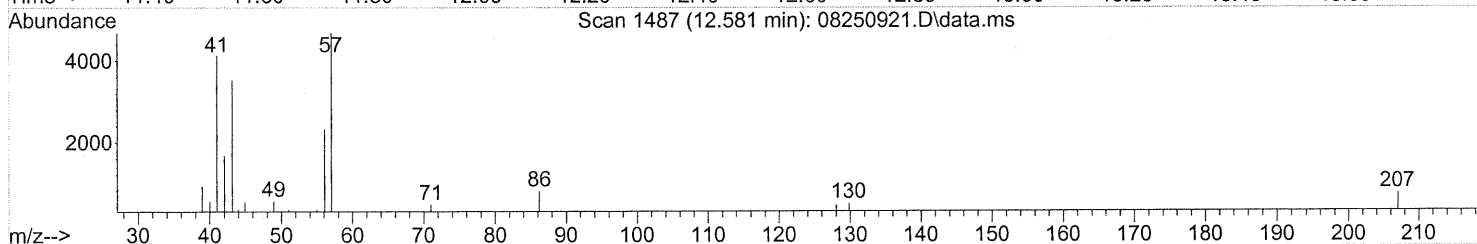
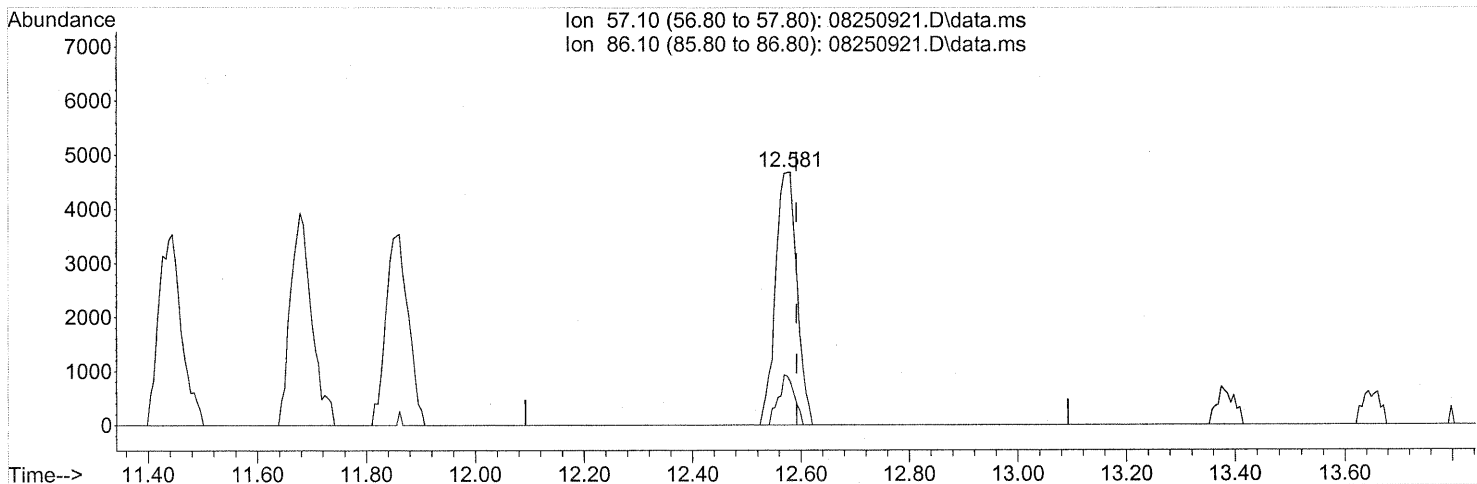
(30) Ethyl Acetate (T)
 12.672min (-0.057) 6.68ng
 response 26705

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	80.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

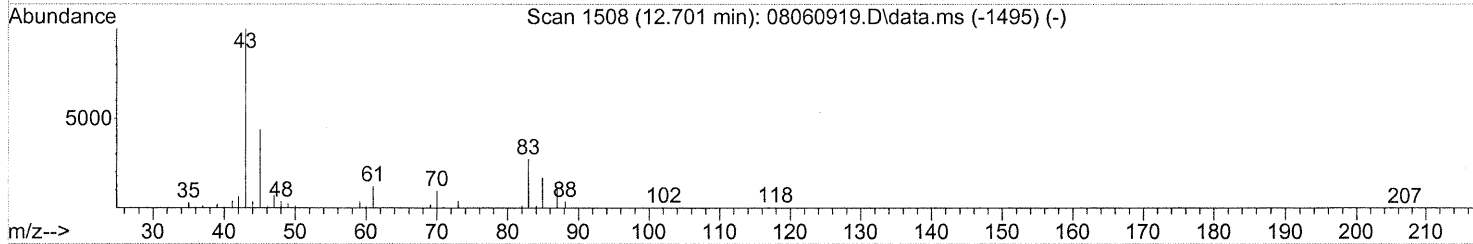
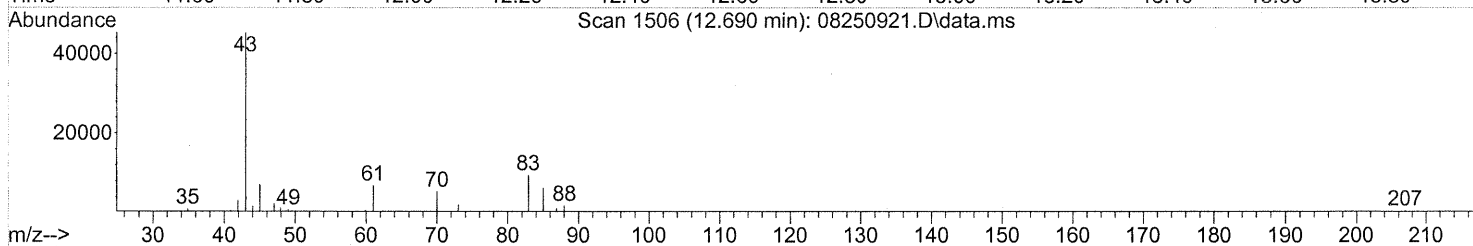
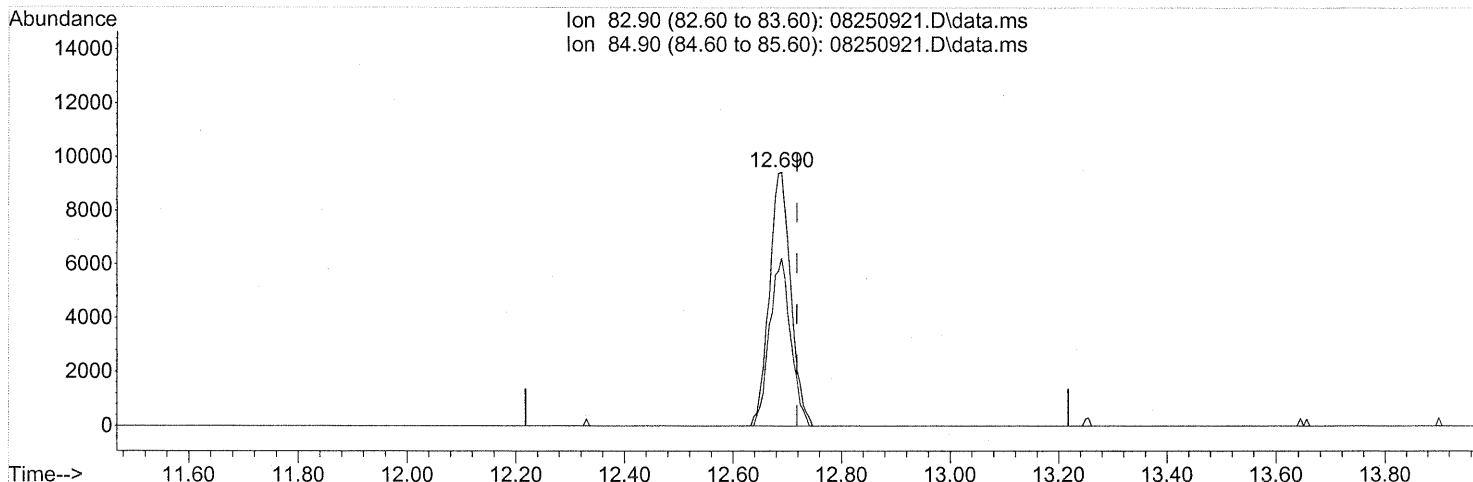
(31) n-Hexane (T)
 12.581min (-0.011) 0.63ng
 response 12856

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

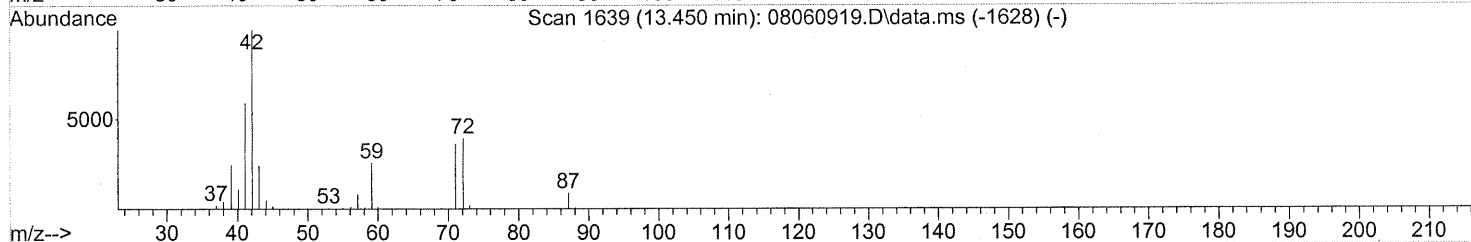
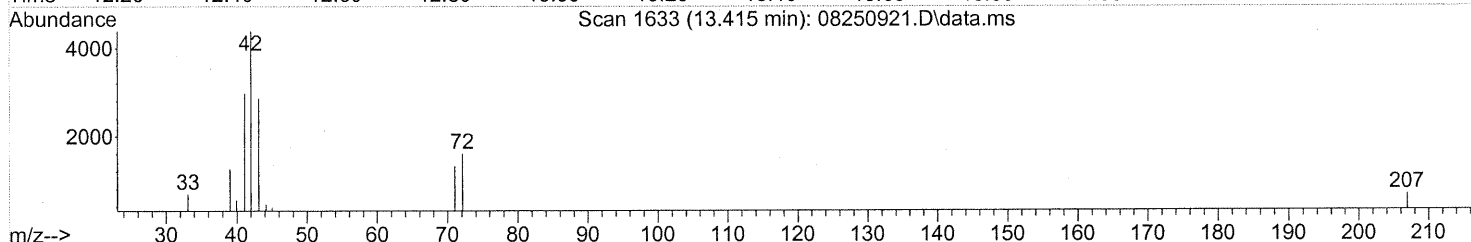
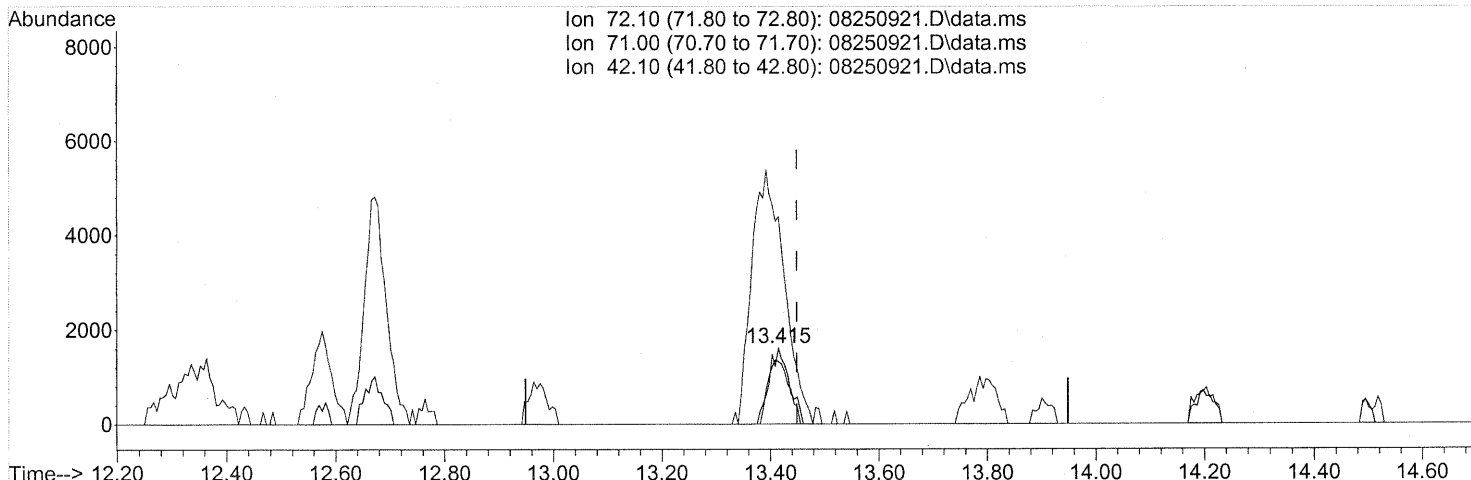
(32) Chloroform (T)
 12.690min (-0.029) 1.44ng
 response 25847

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	64.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.415min (-0.034) 0.51ng

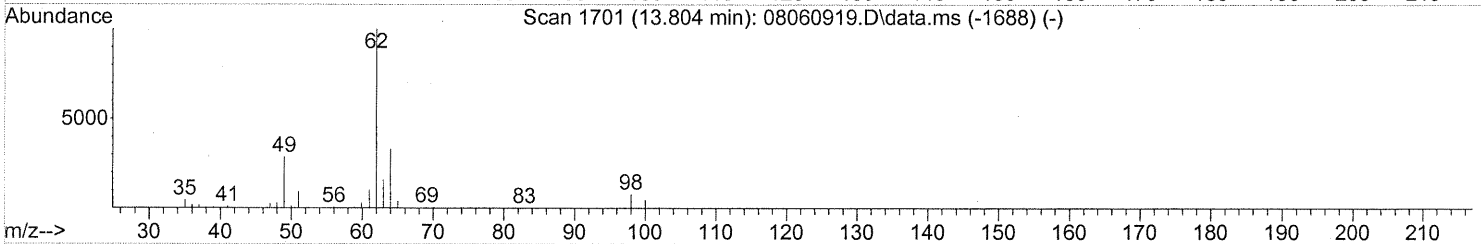
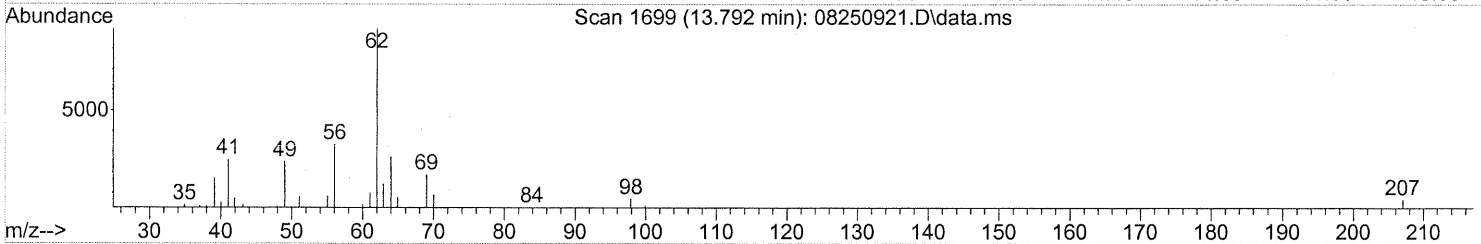
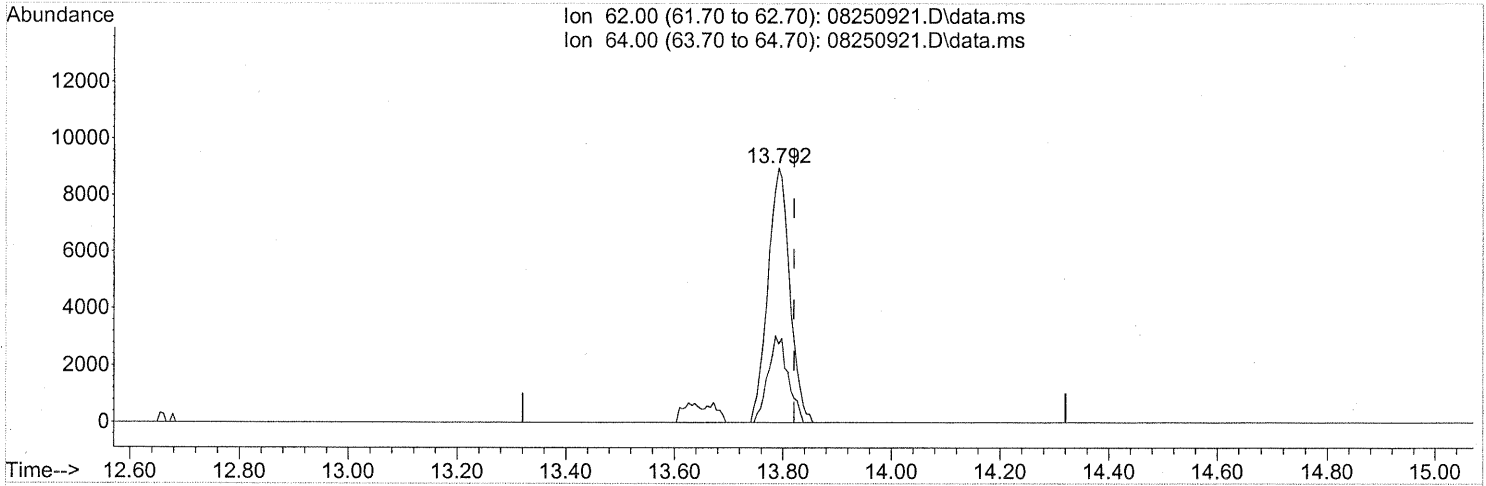
response 4167

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	87.98
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.53ng

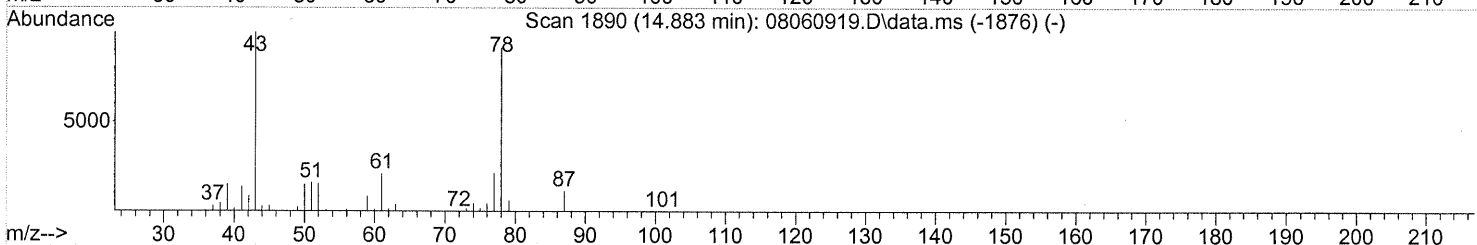
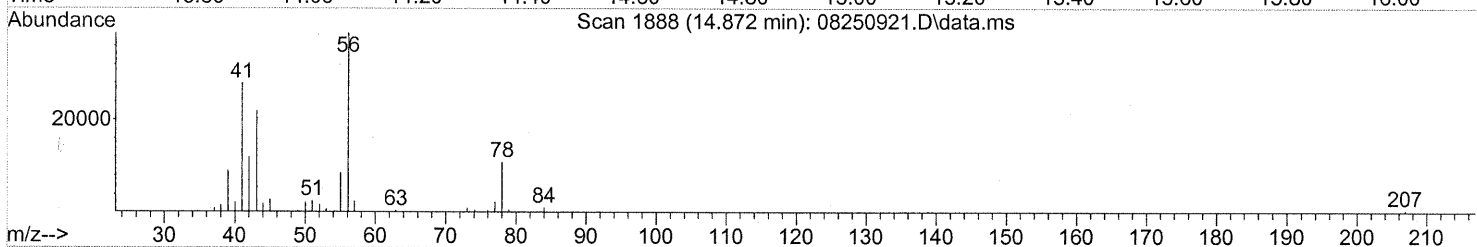
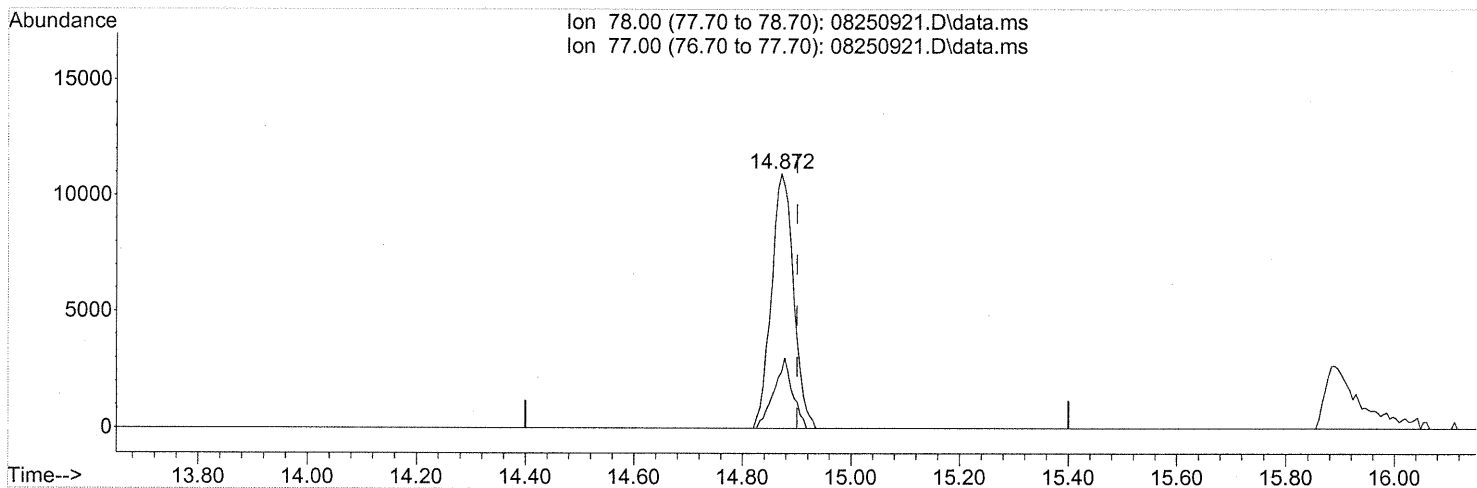
response 25178

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(41) Benzene (T)

14.872min (-0.029) 0.68ng

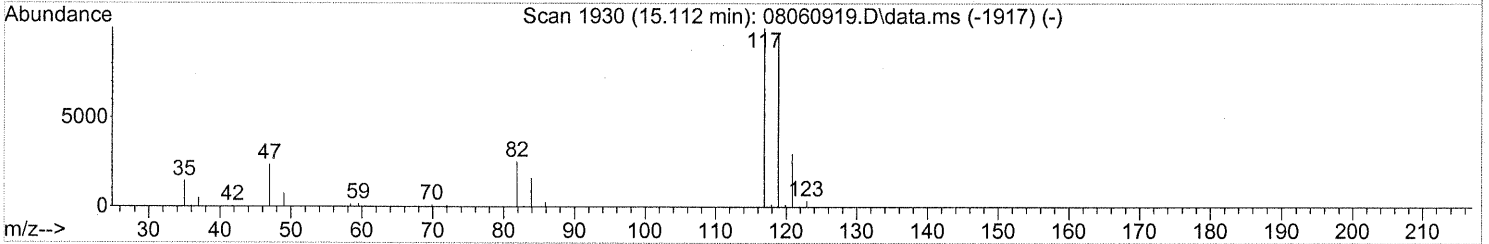
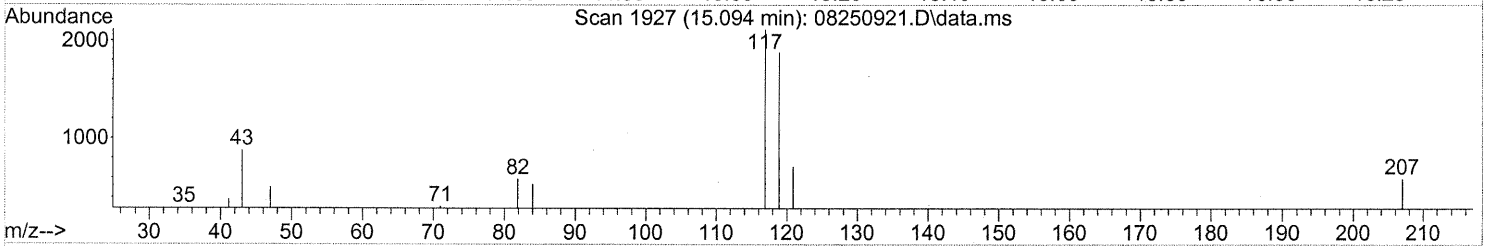
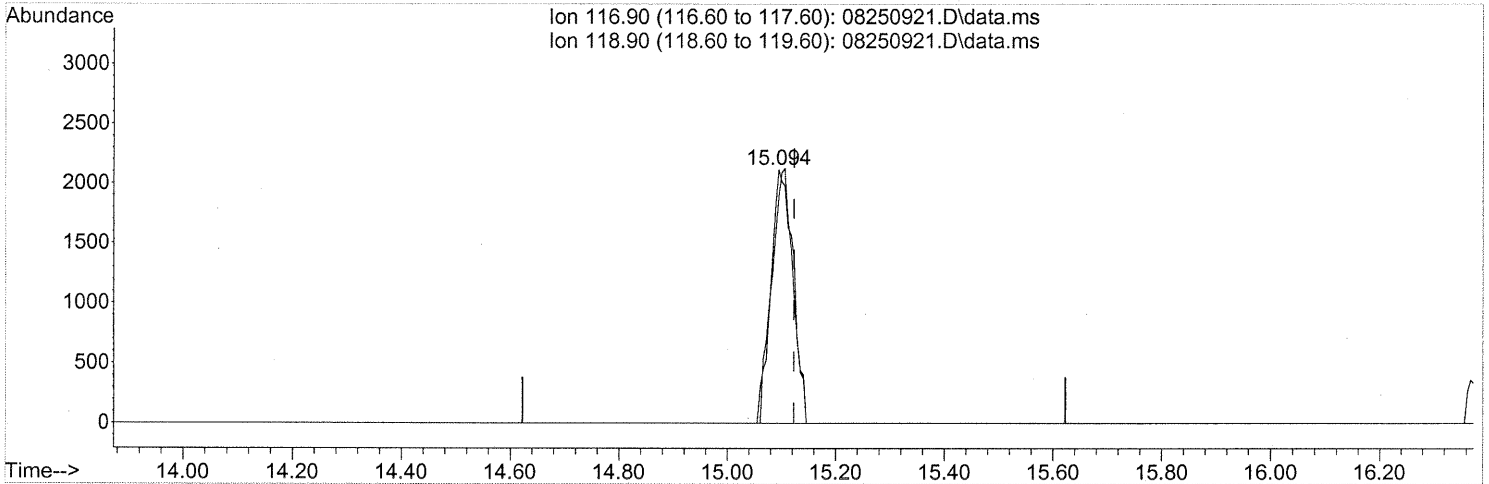
response 30866

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
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 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(42) Carbon Tetrachloride (T)

15.094min (-0.029) 0.41ng

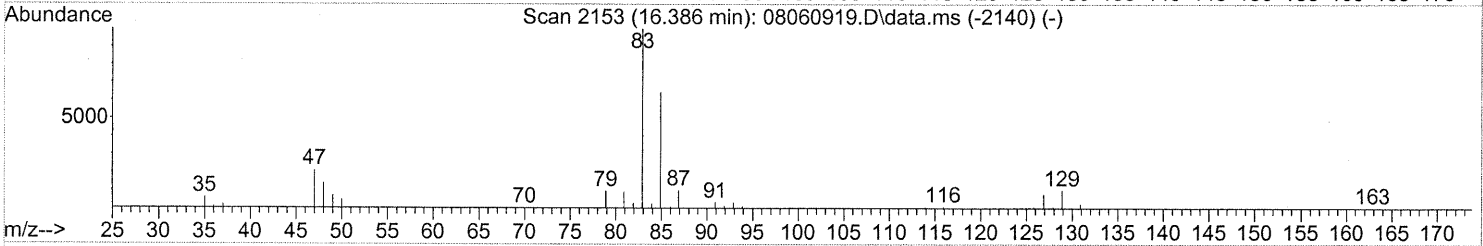
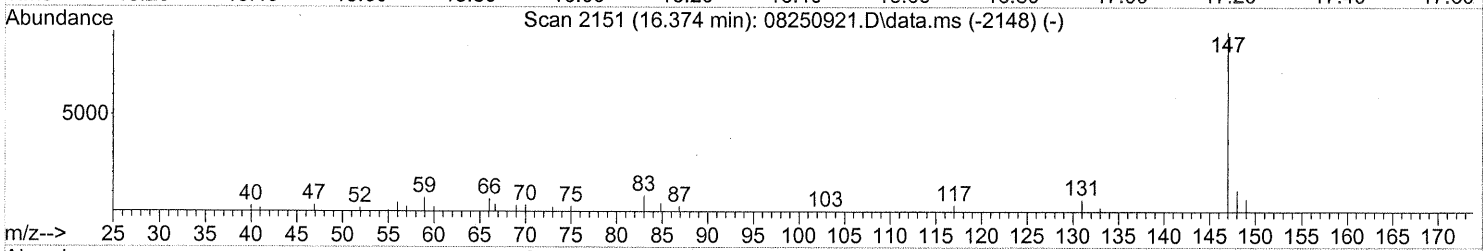
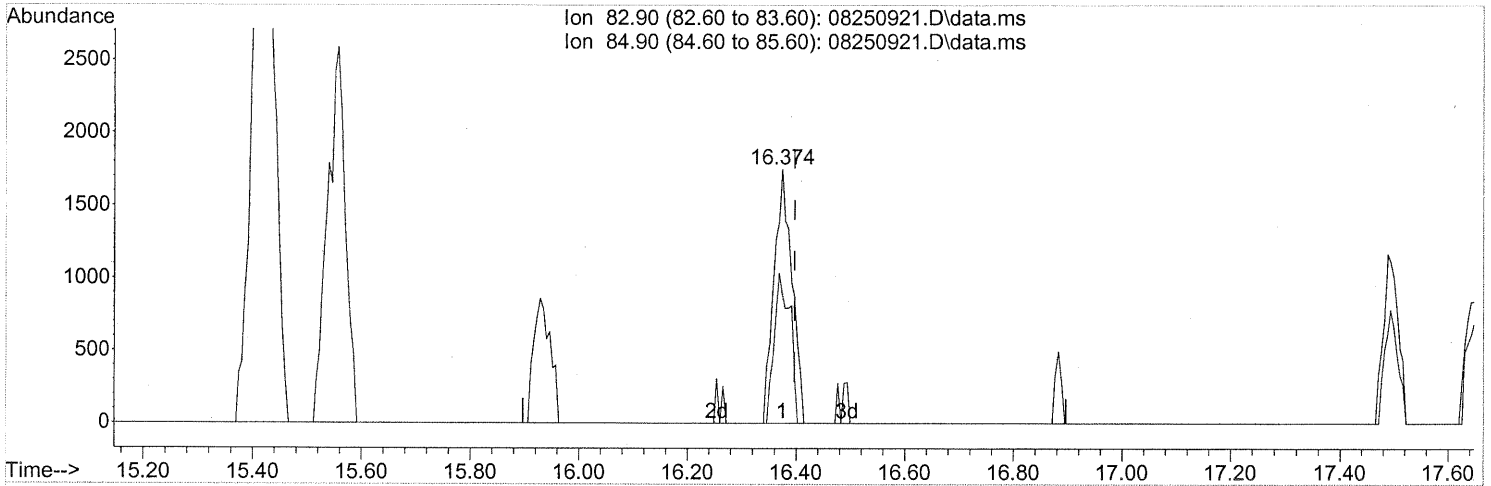
response 6015

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(46) Bromodichloromethane (T)

16.374min (-0.023) 0.27ng

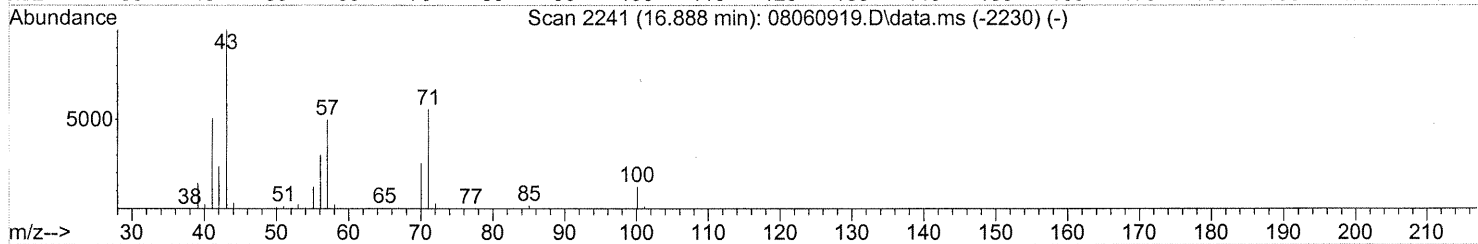
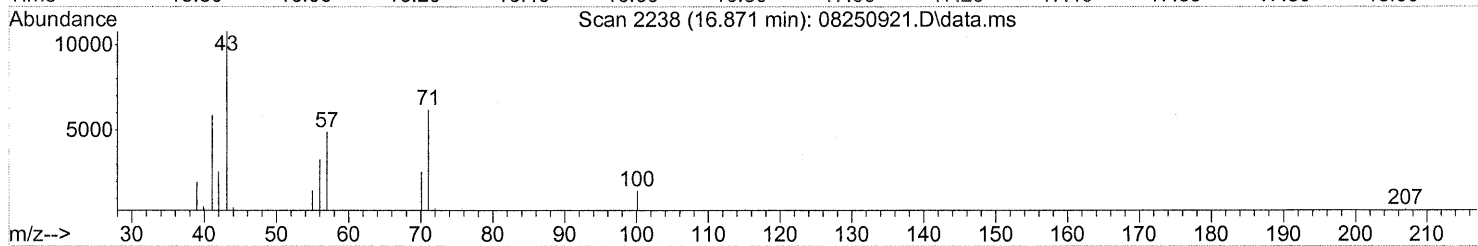
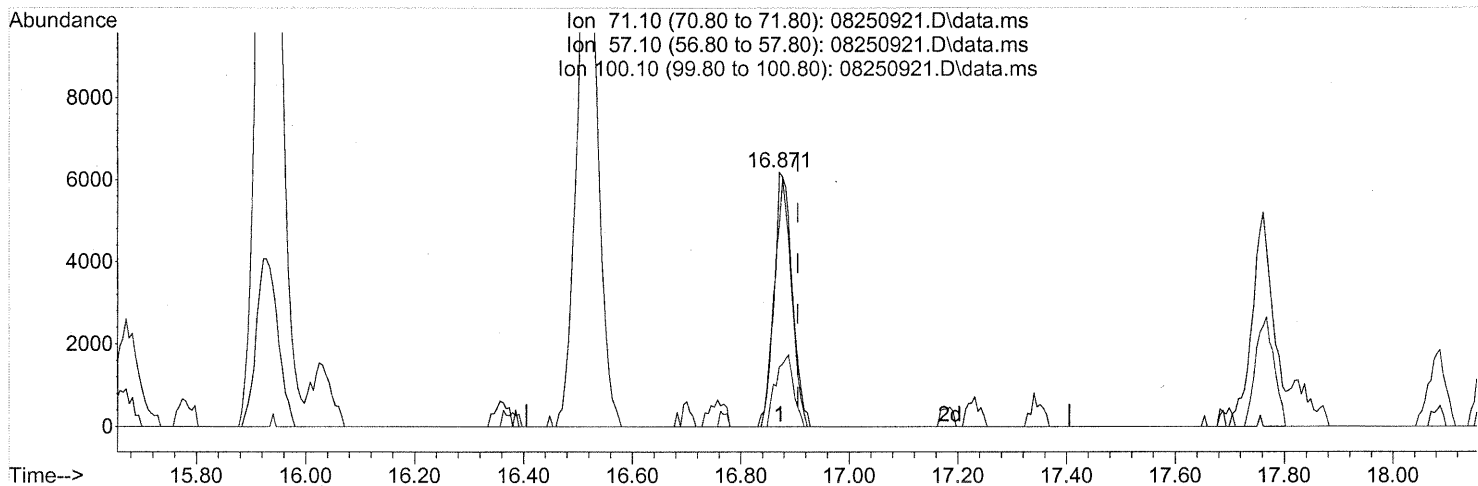
response 4009

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	52.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(51) n-Heptane (T)

16.871min (-0.034) 1.18ng

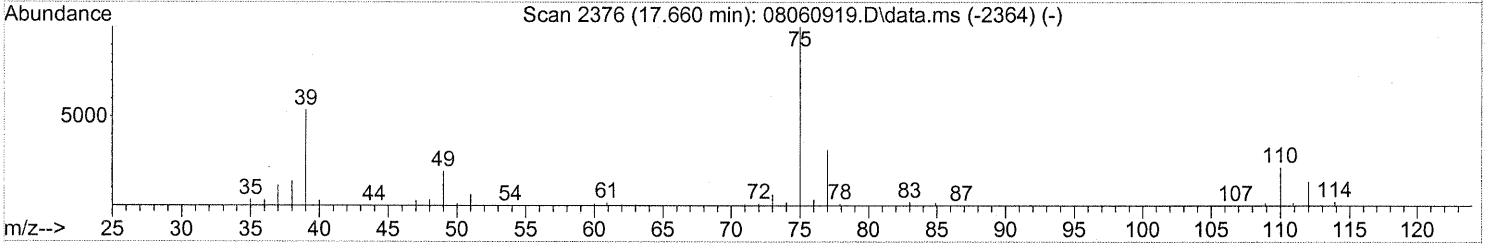
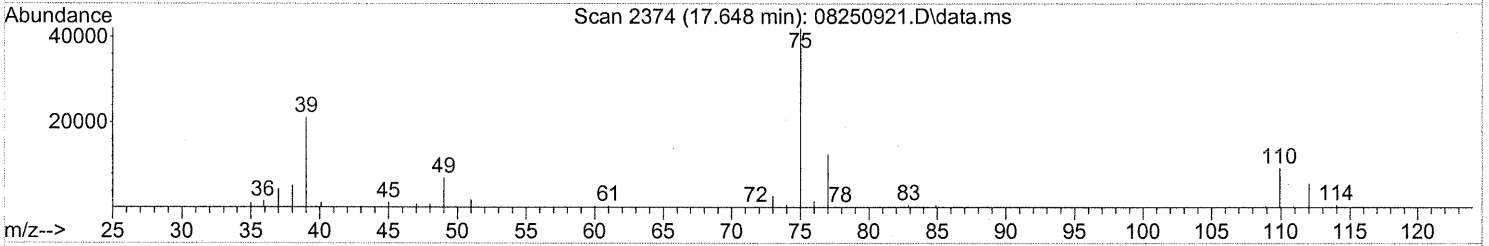
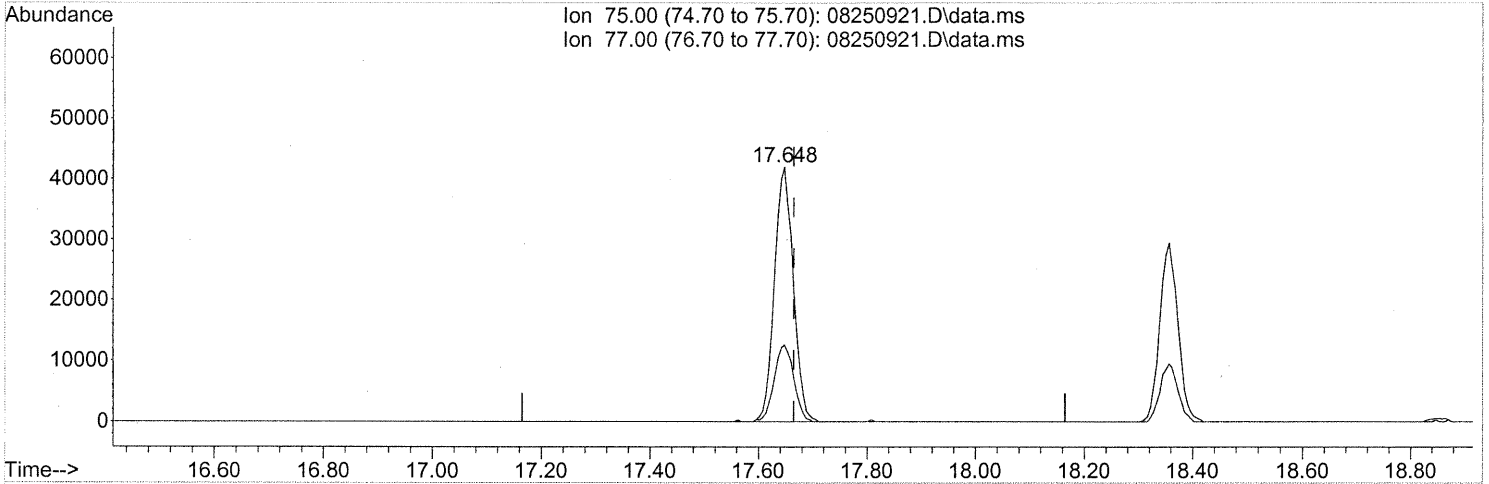
response 14422

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	92.32
100.10	26.40	27.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 5.28ng

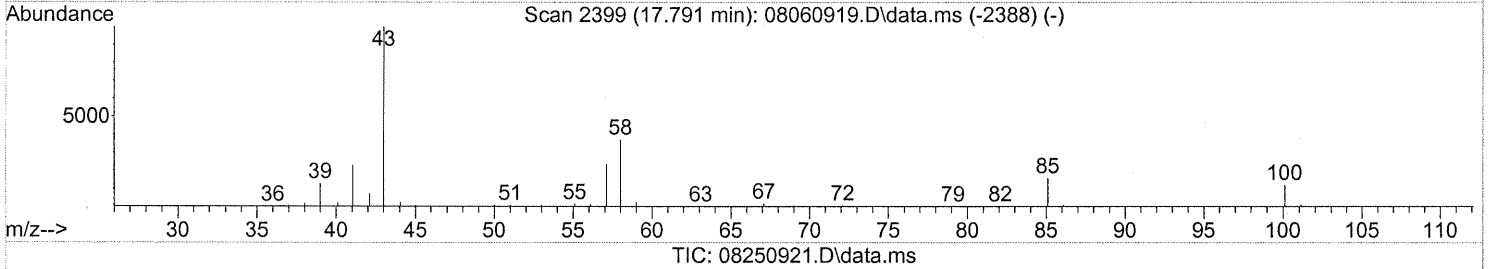
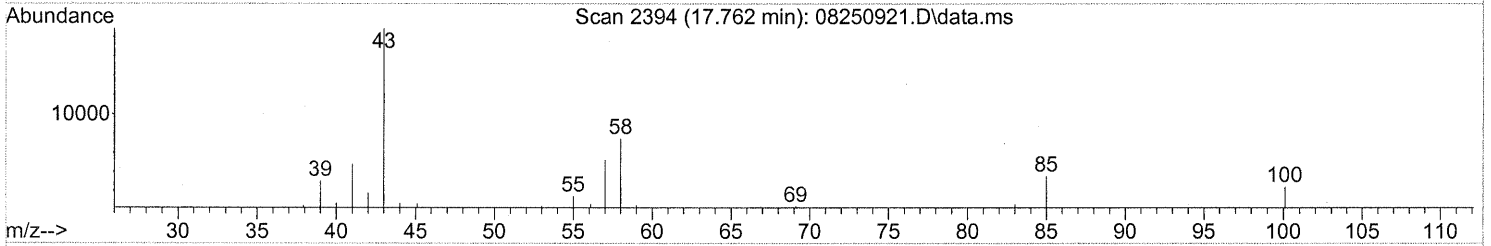
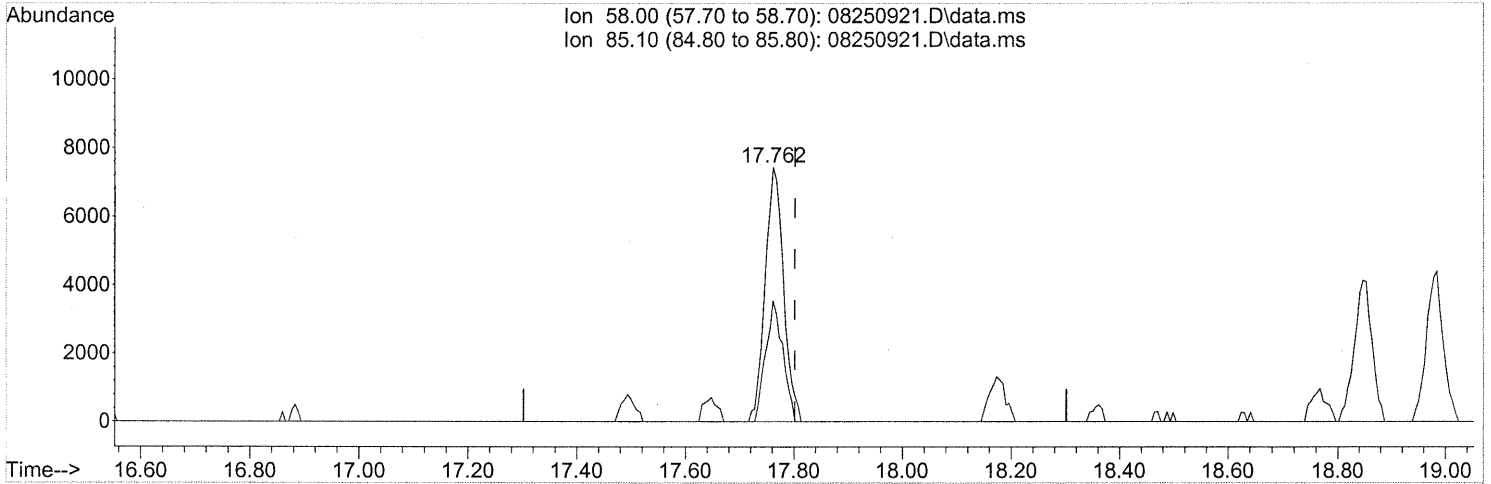
response 100090

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

17.762min (-0.040) 1.61ng

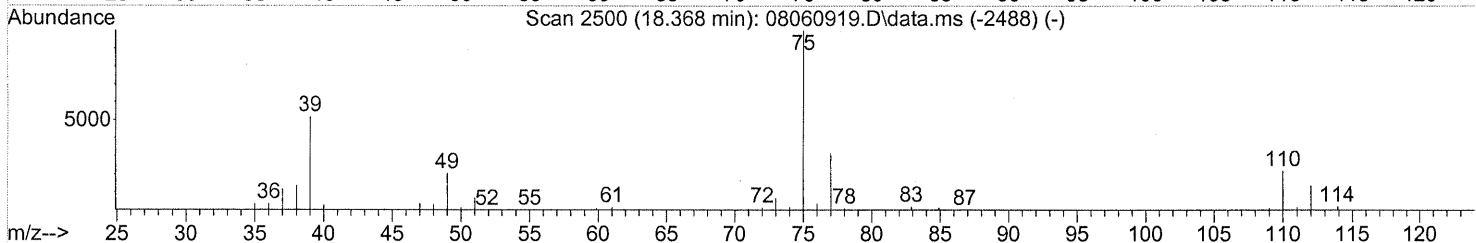
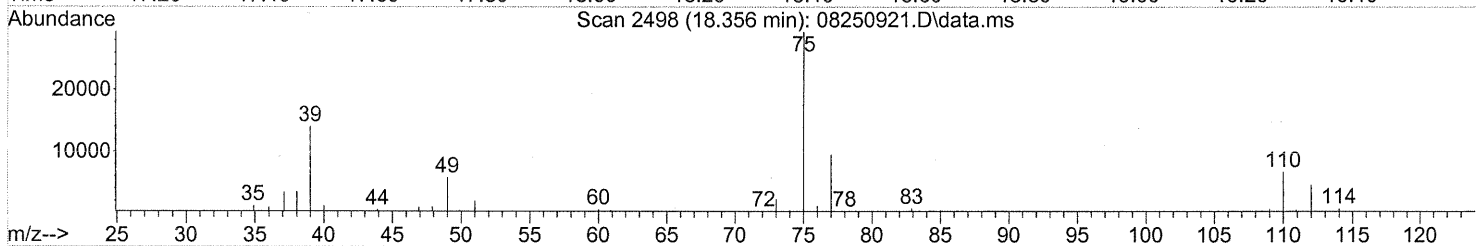
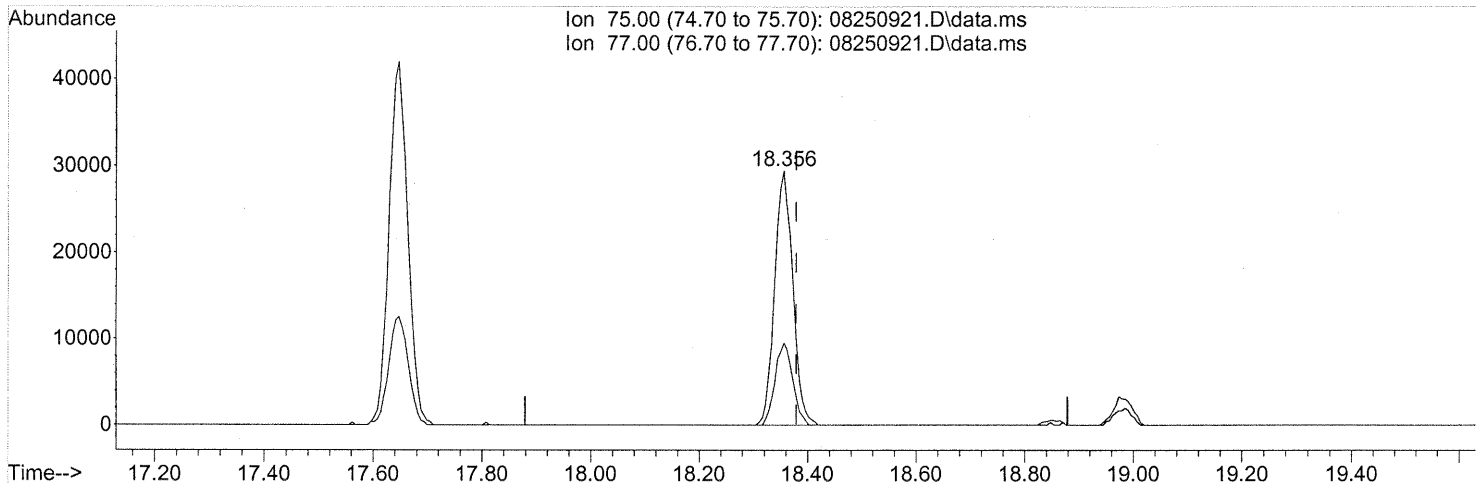
response 17567

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	44.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 3.79ng

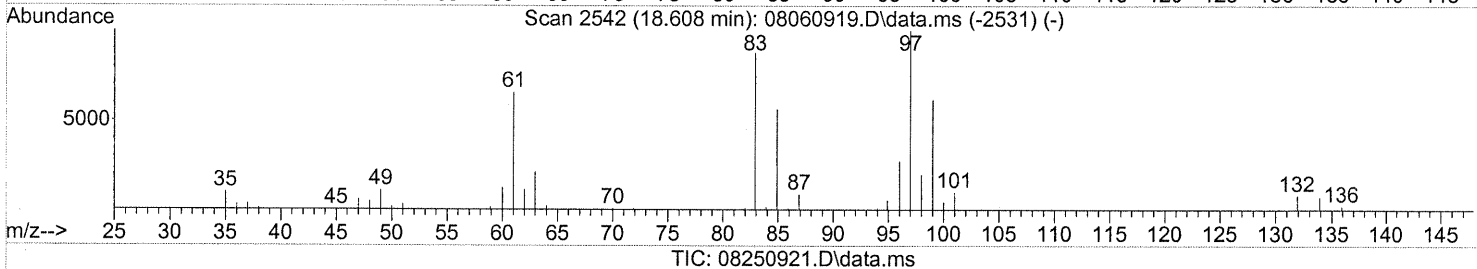
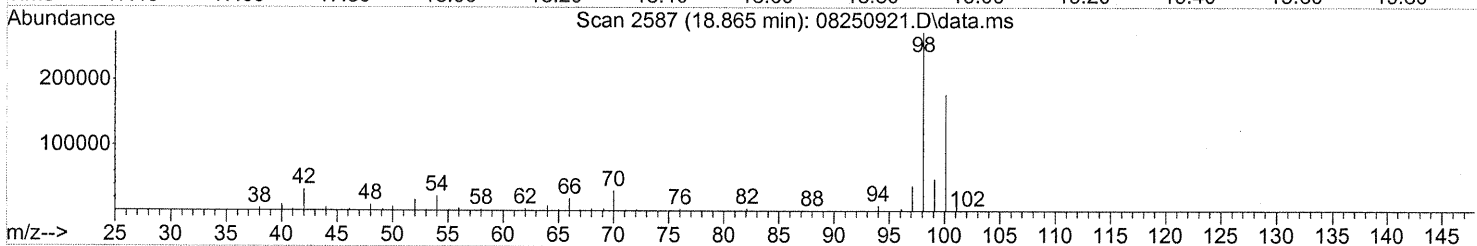
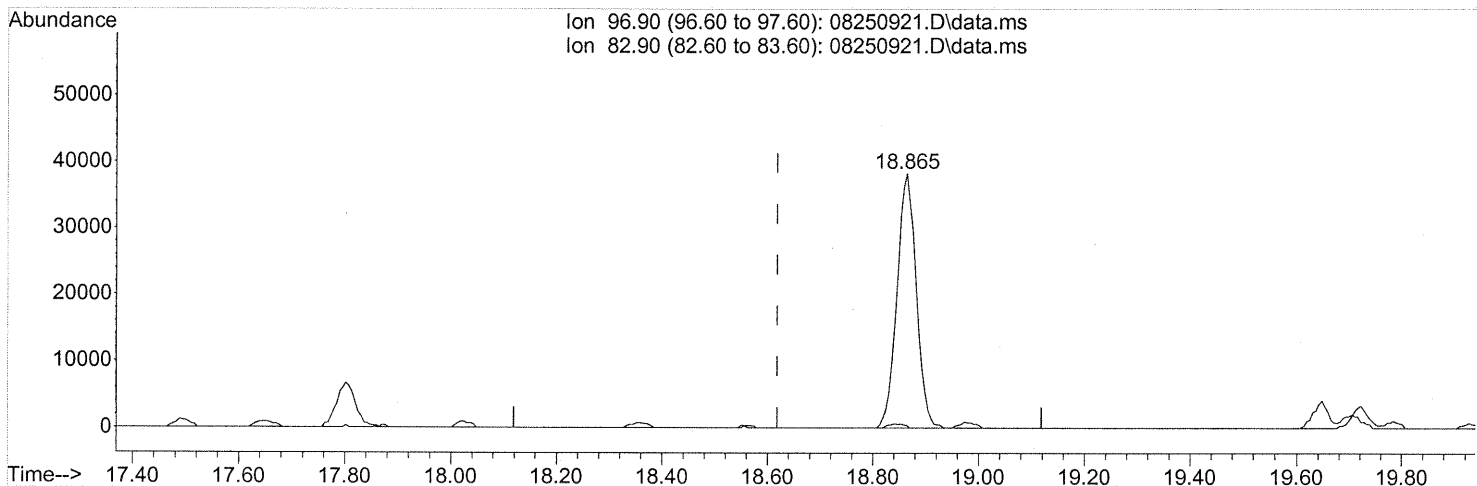
response 68317

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	31.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.865min (+0.246) 9.75ng

response 97446

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

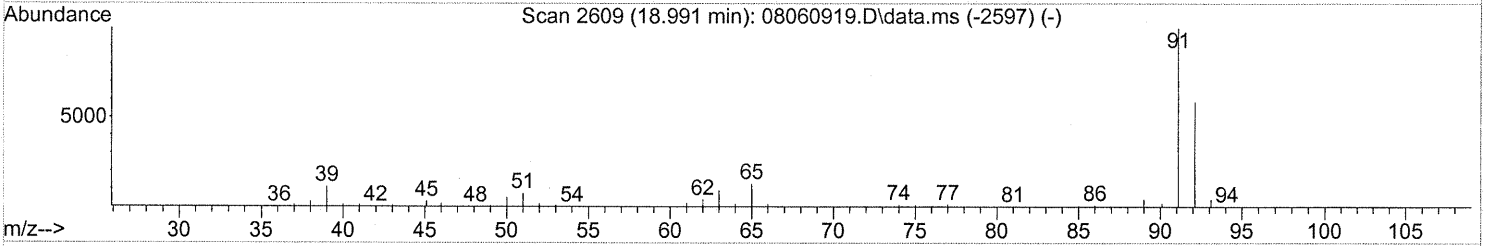
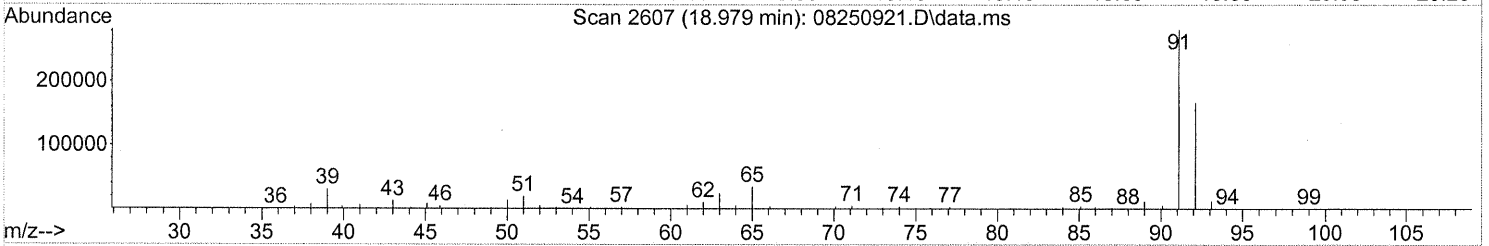
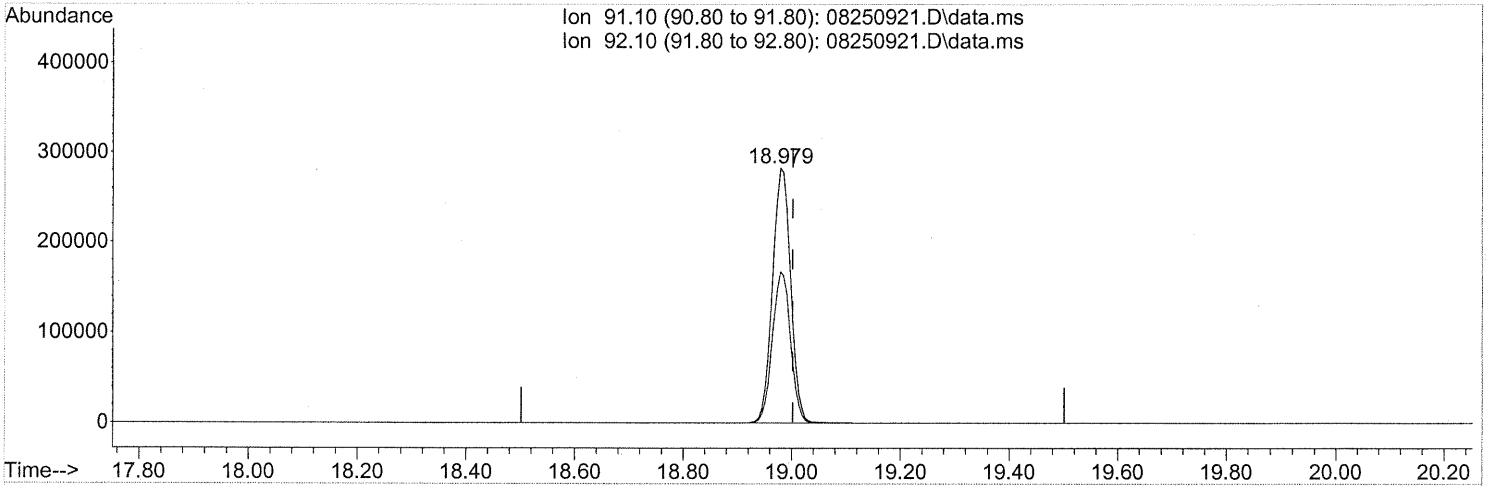
FP
UM 8/31/09

E 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

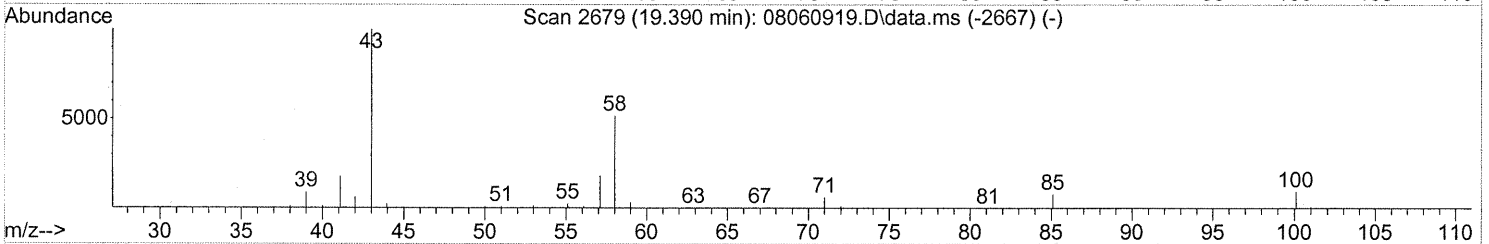
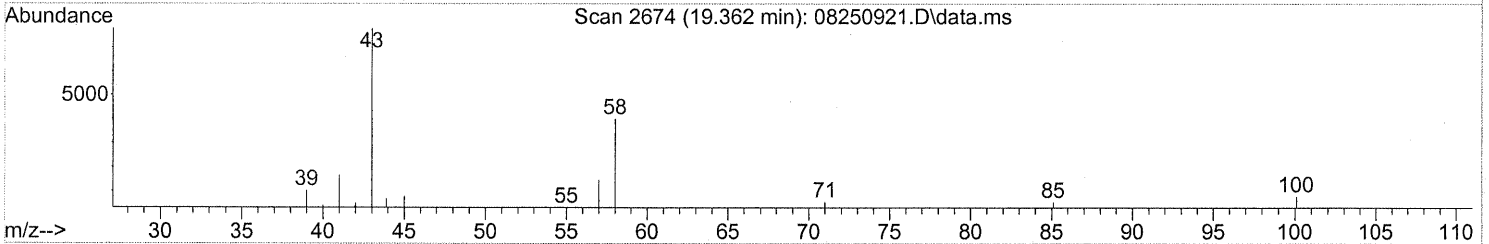
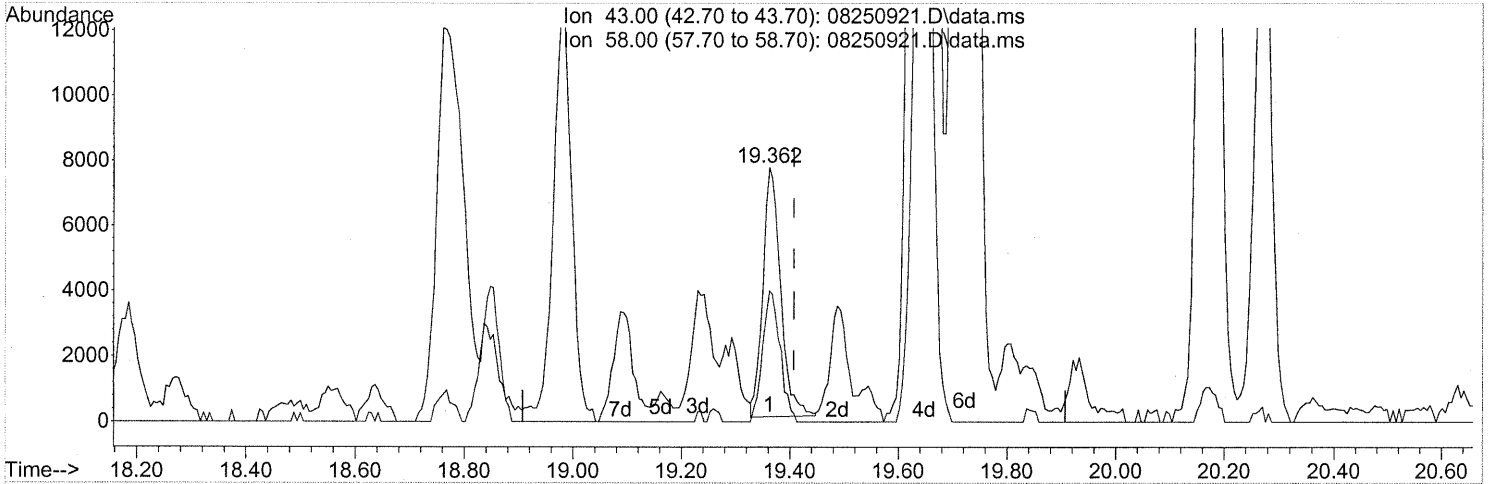
(58) Toluene (T)
 18.979min (-0.023) 15.01ng
 response 651732

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

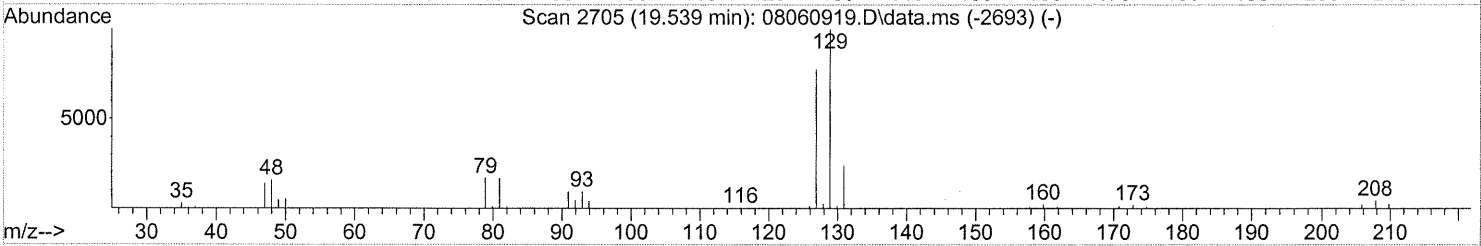
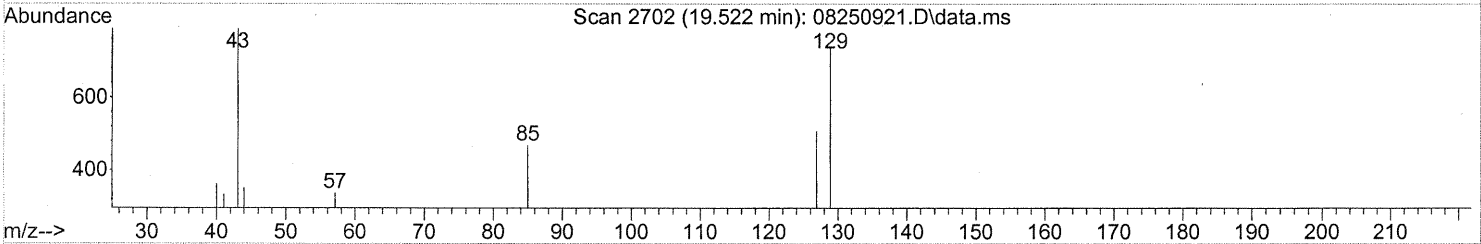
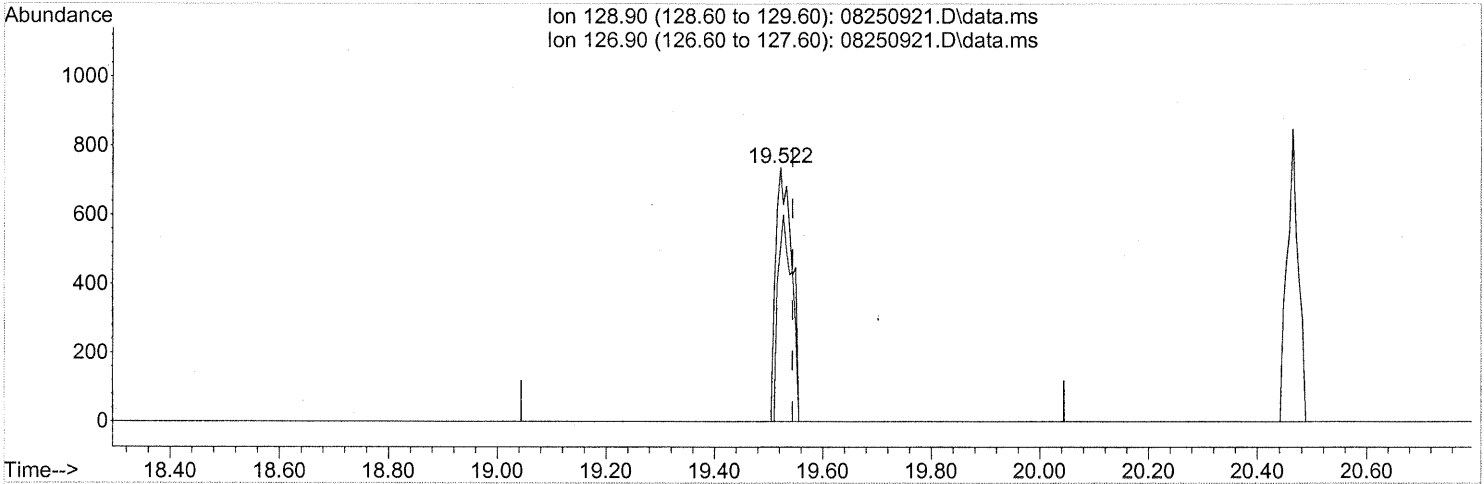
(59) 2-Hexanone (T)
 19.362min (-0.046) 0.61ng
 response 17576

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	51.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(60) Dibromochloromethane (T)

19.522min (-0.023) 0.15ng

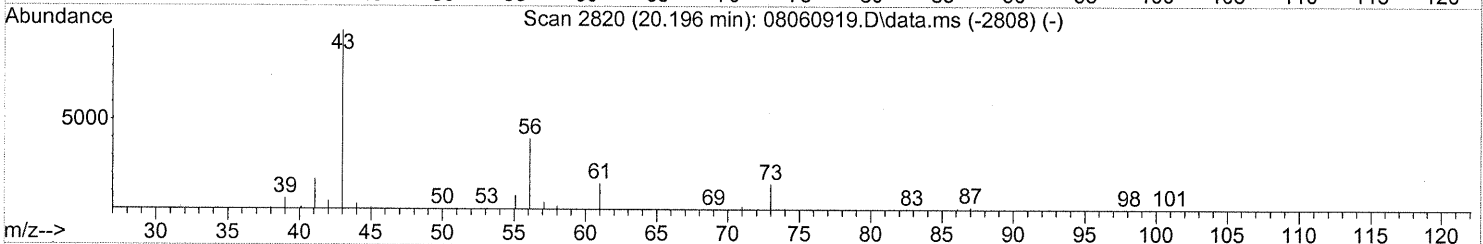
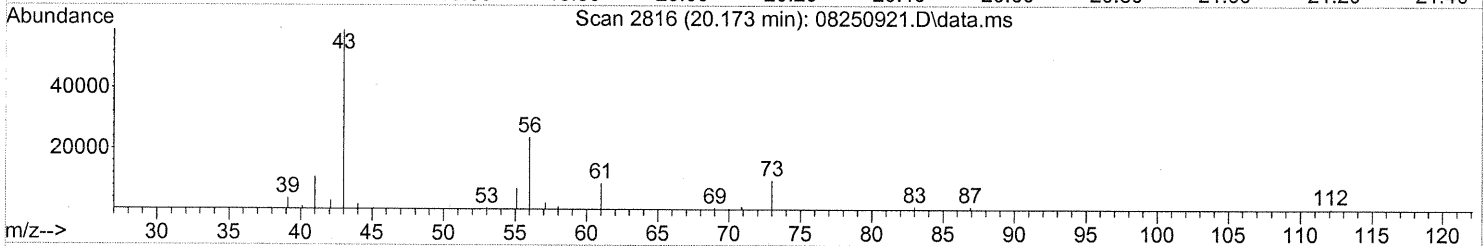
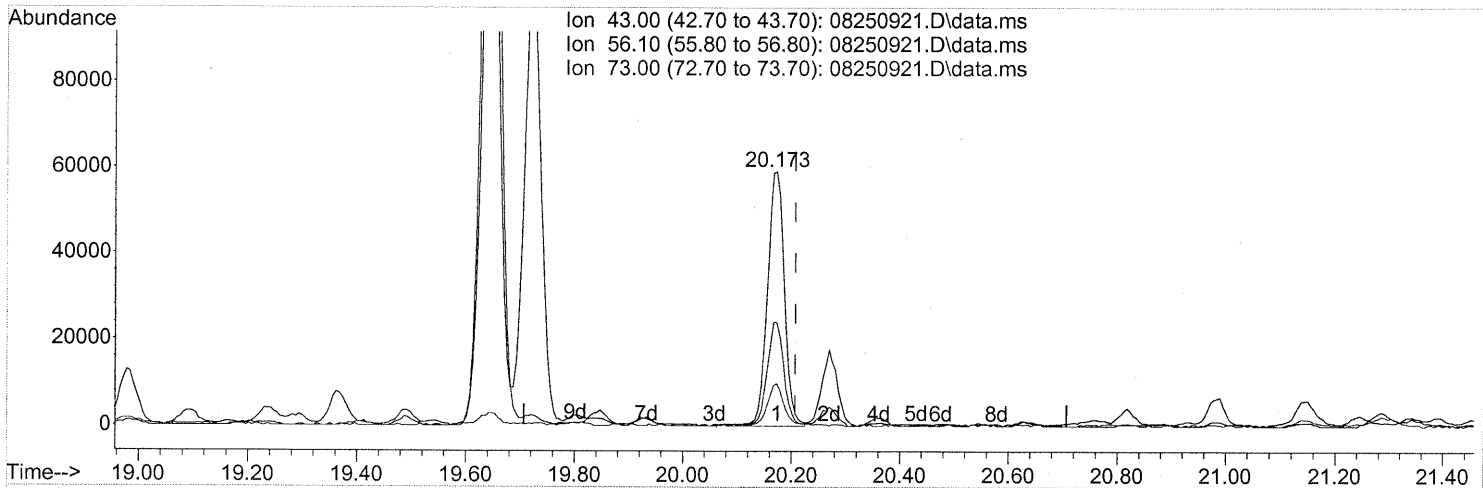
response 1524

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	70.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

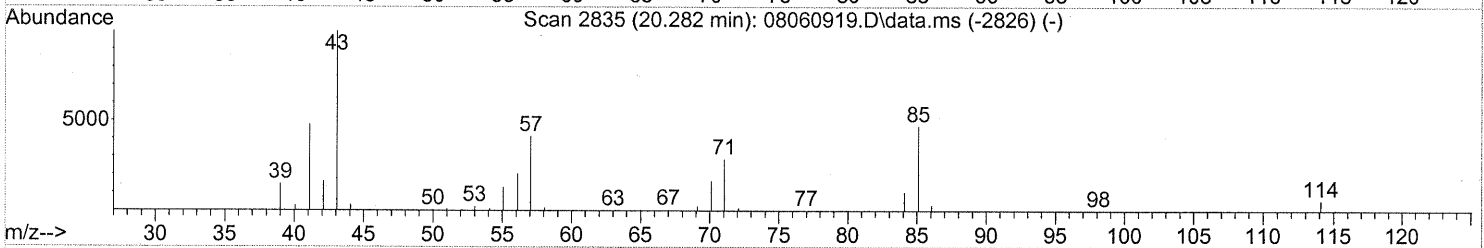
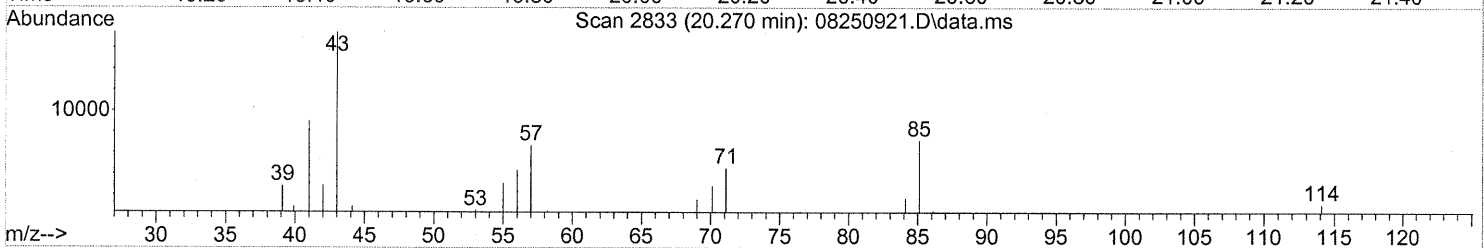
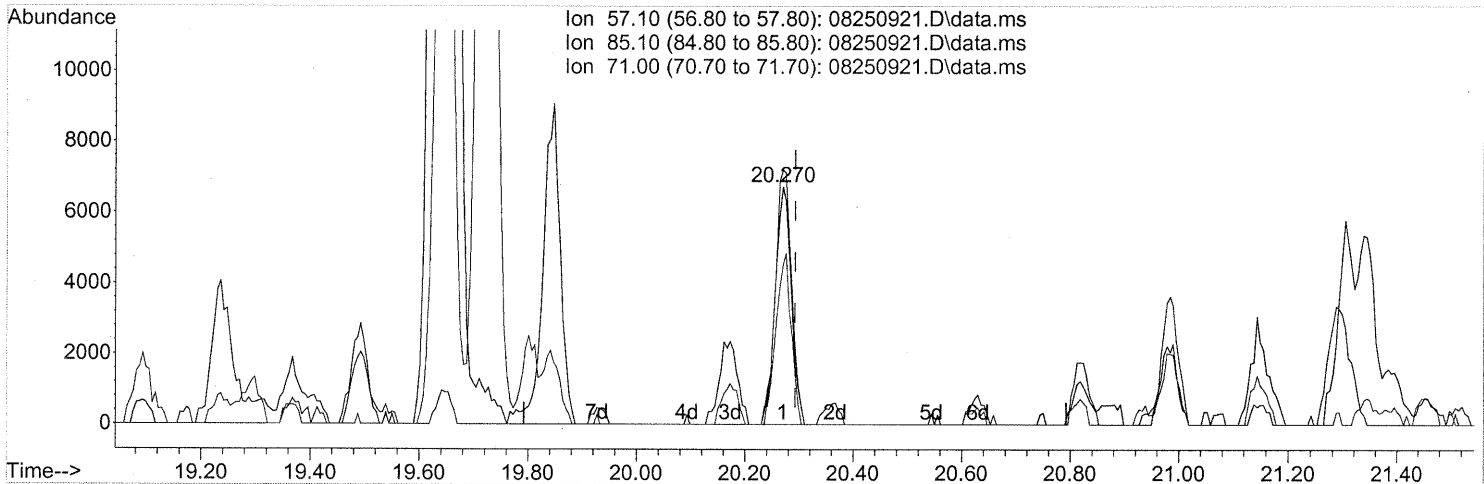
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 3.75ng
 response 127552

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	39.67
73.00	14.80	16.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

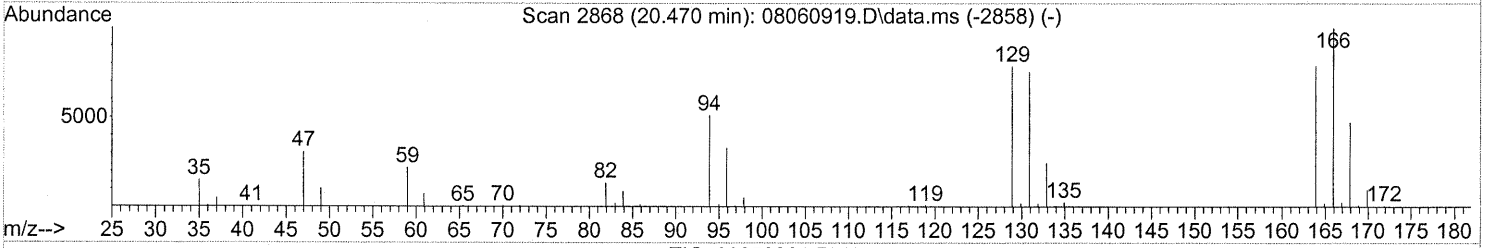
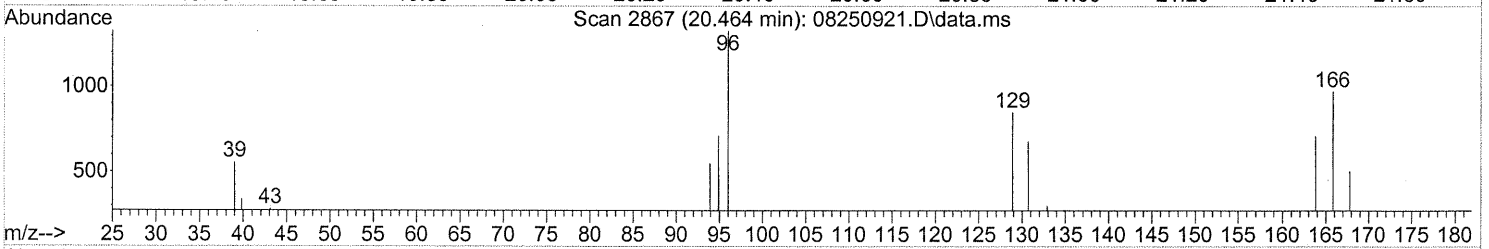
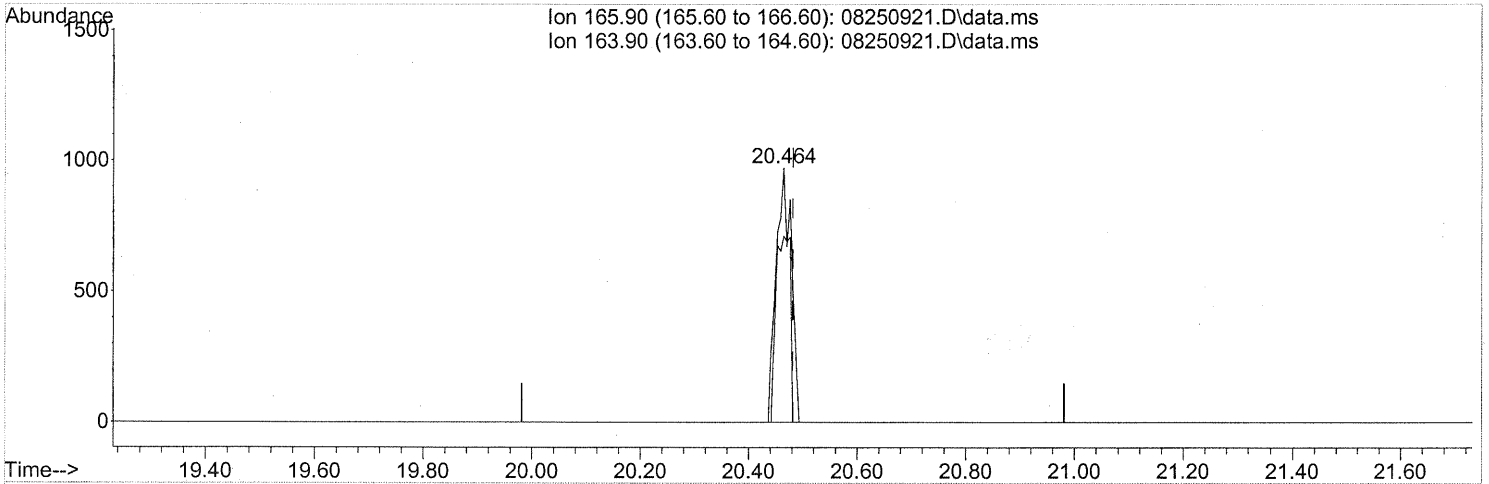
(63) n-Octane (T)
 20.270min (-0.023) 1.32ng
 response 13881

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	107.46
71.00	68.10	69.14
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(64) Tetrachloroethene (T)

20.464min (-0.017) 0.19ng

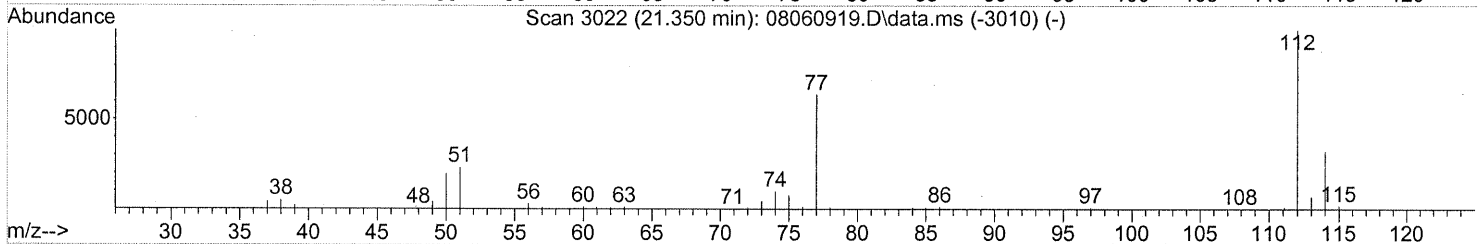
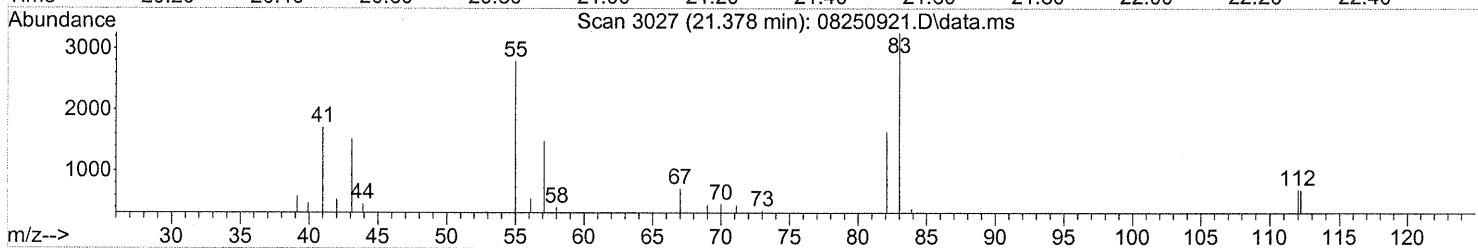
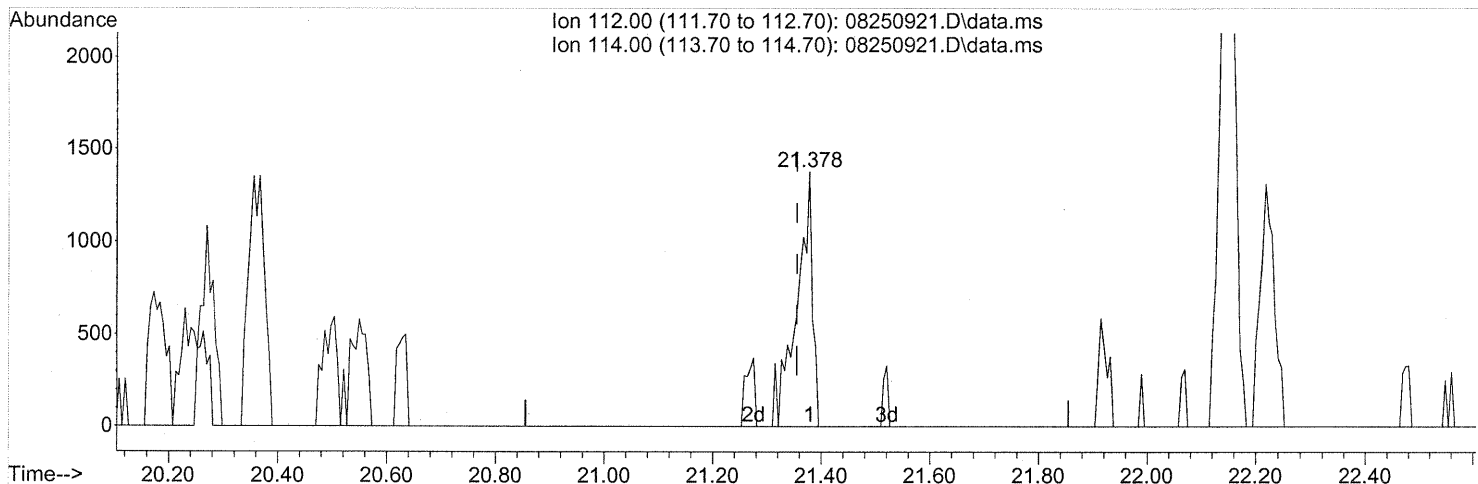
response 1885

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	68.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(65) Chlorobenzene (T)
 21.378min (+0.023) 0.10ng
 response 2787

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP

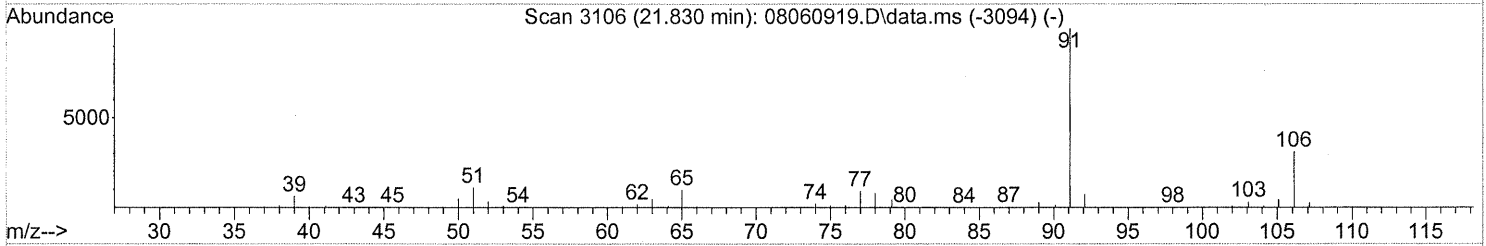
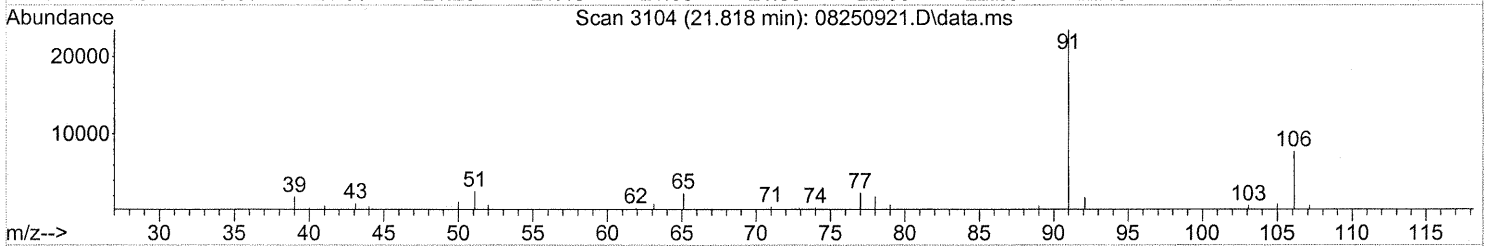
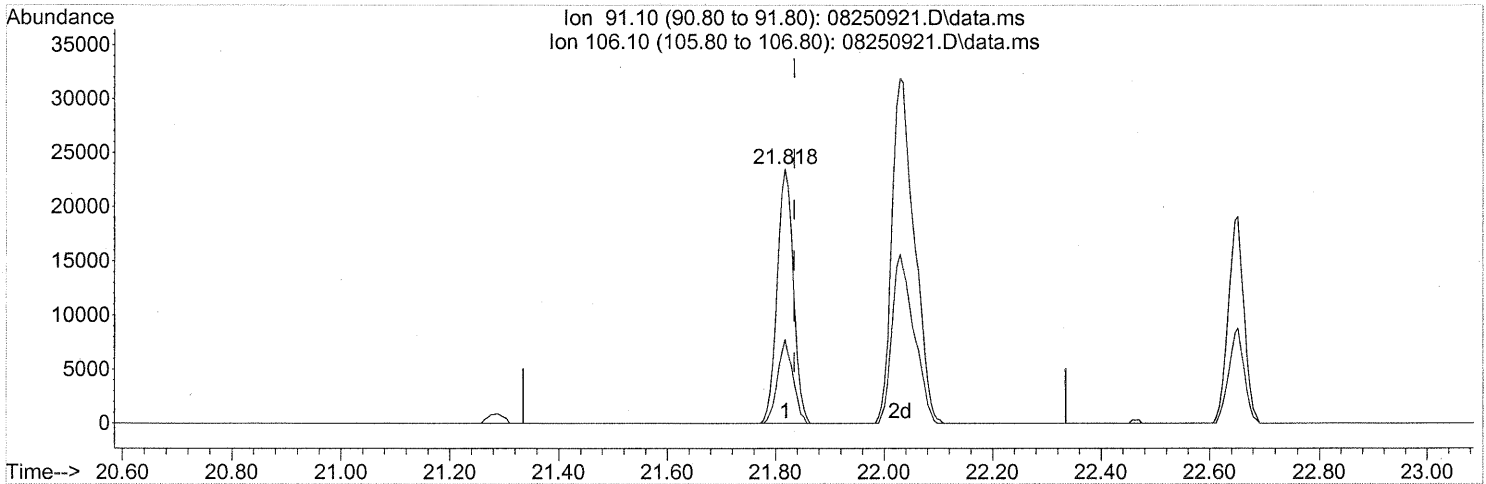
17 8/31/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

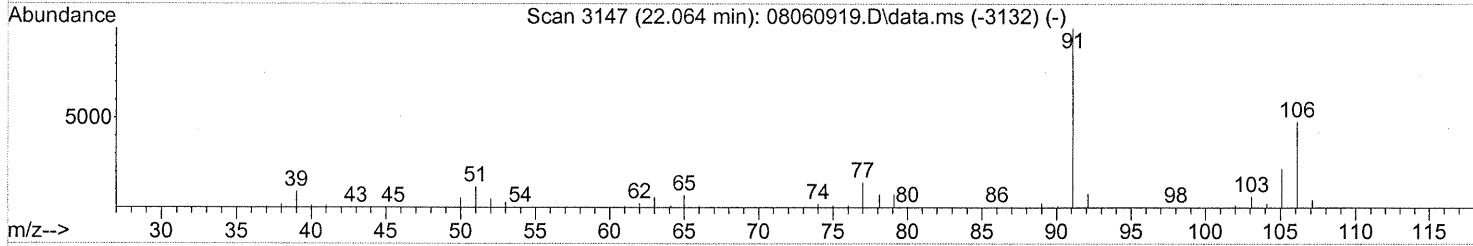
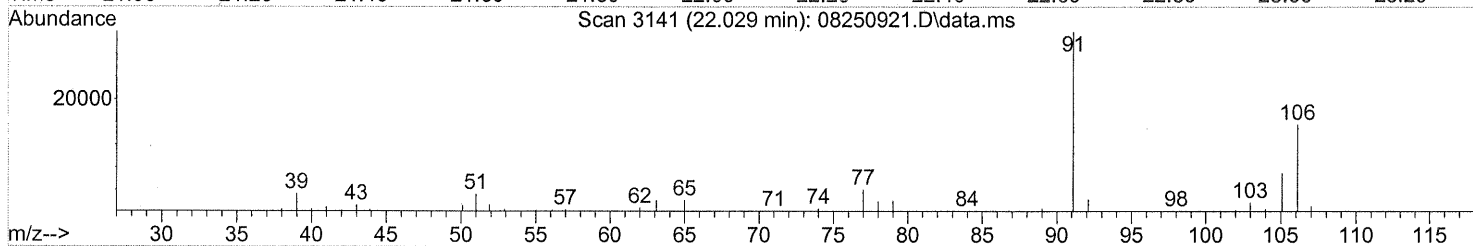
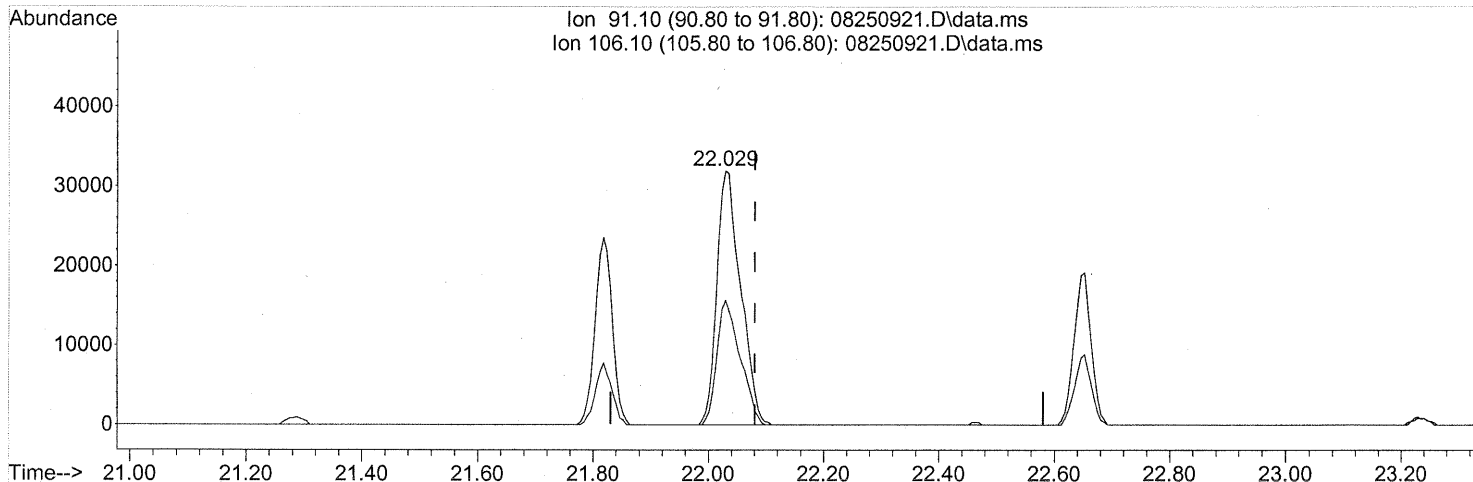
(66) Ethylbenzene (T)
 21.818min (-0.017) 0.99ng
 response 48985

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	31.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



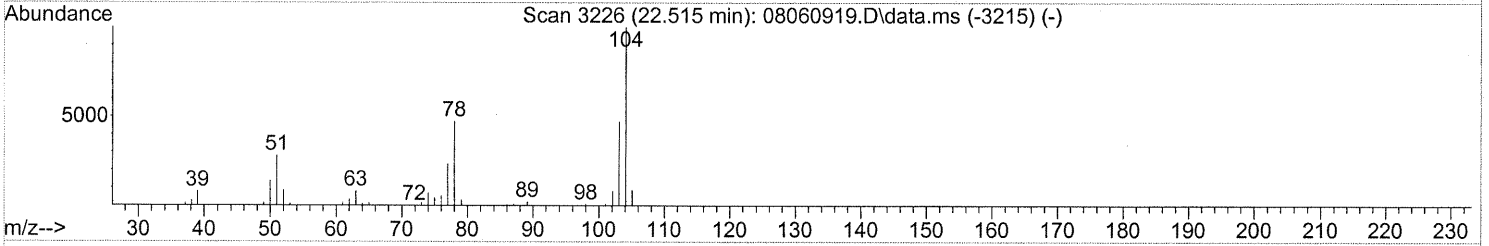
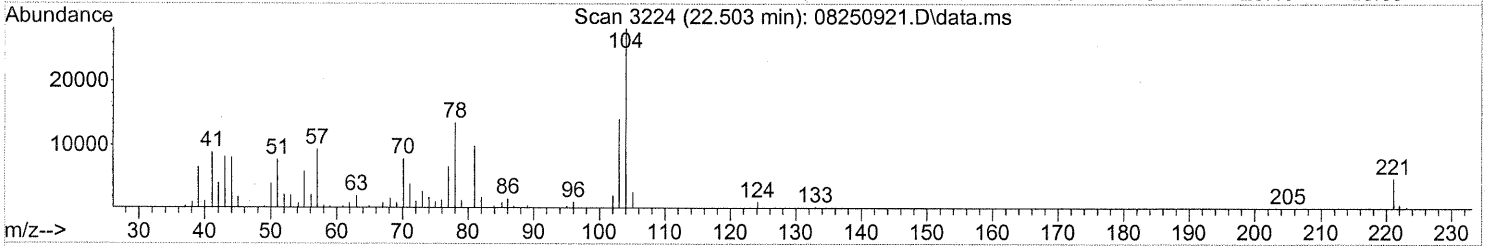
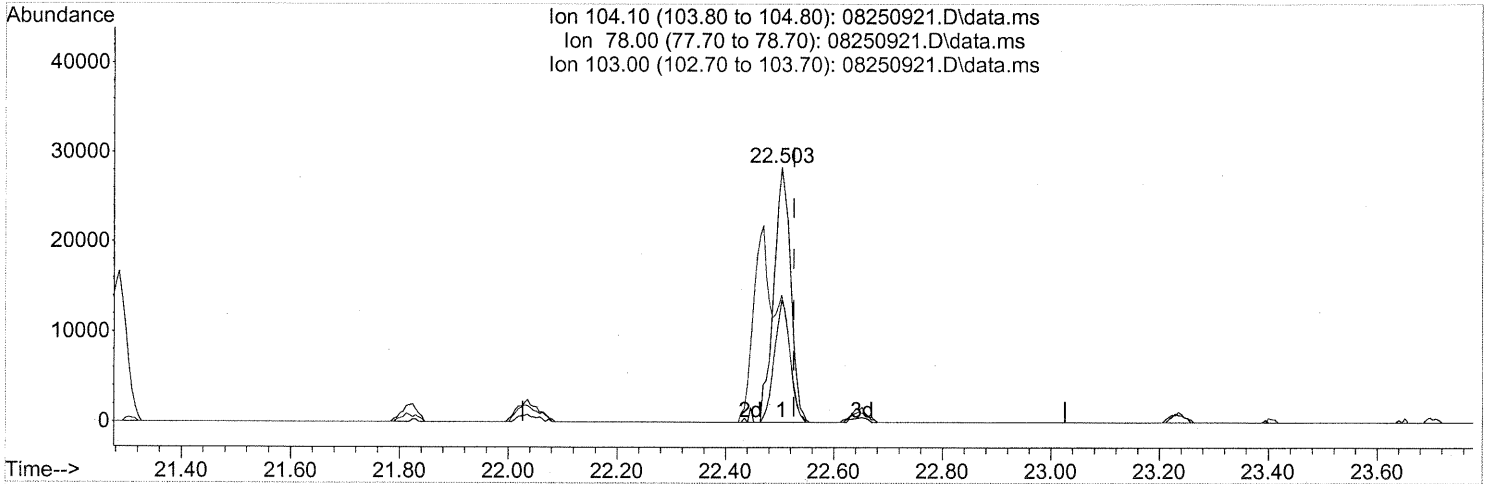
(67) m- & p-Xylenes (T)
 22.029min (-0.051) 2.27ng
 response 91355

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(69) Styrene (T)

22.503min (-0.023) 2.12ng

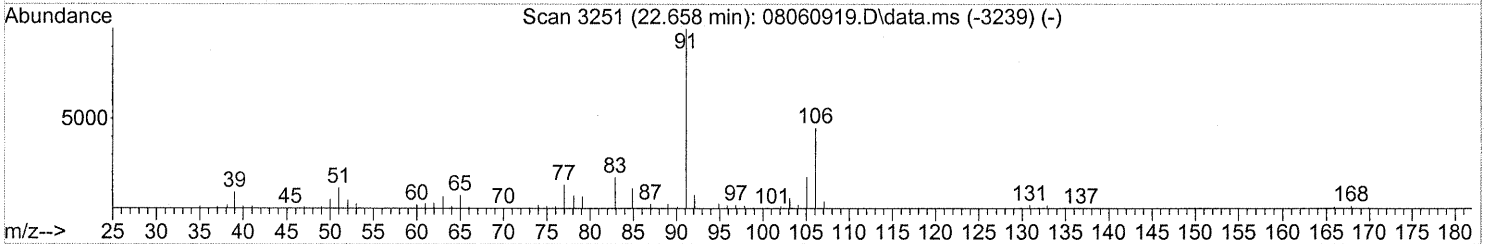
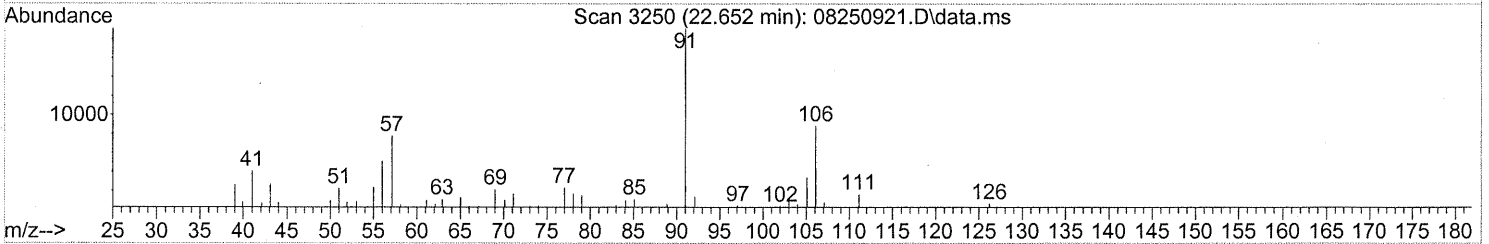
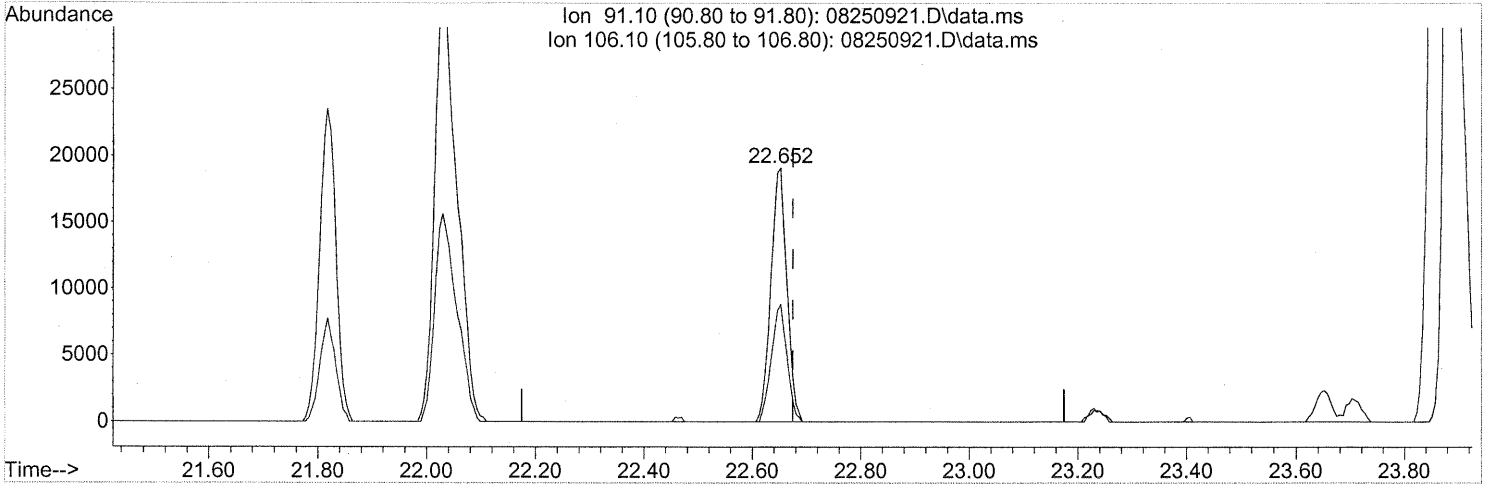
response 61458

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	44.38
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(70) o-Xylene (T)

22.652min (-0.023) 0.97ng

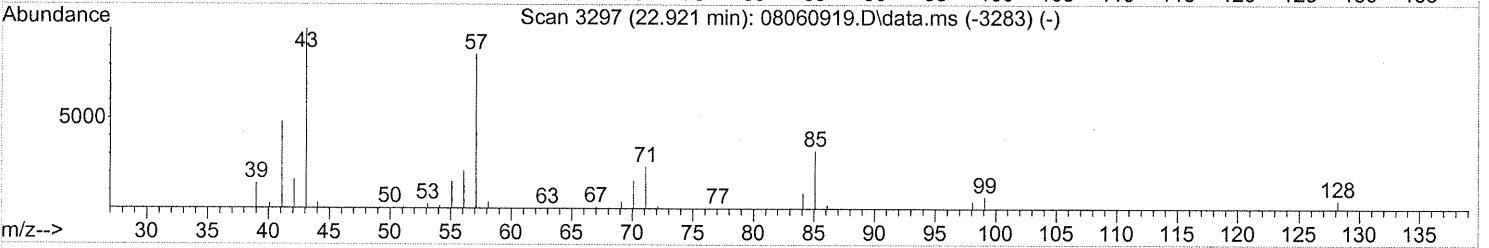
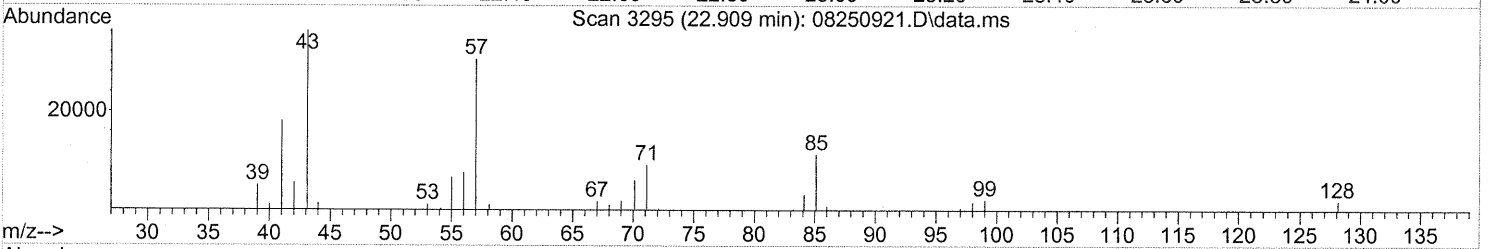
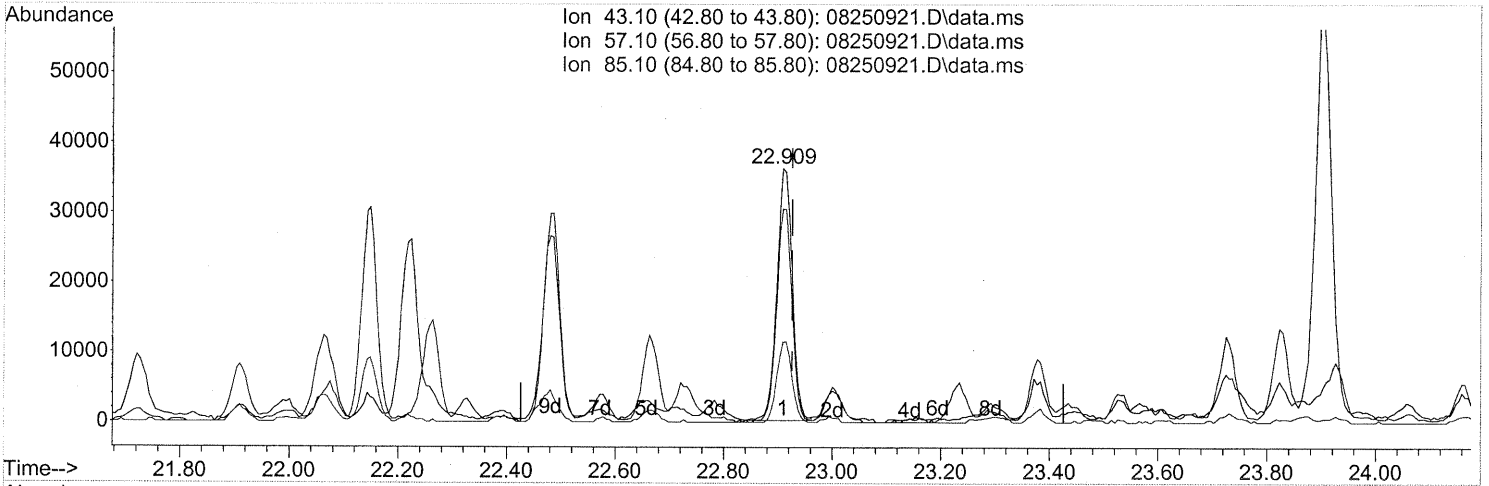
response 38947

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

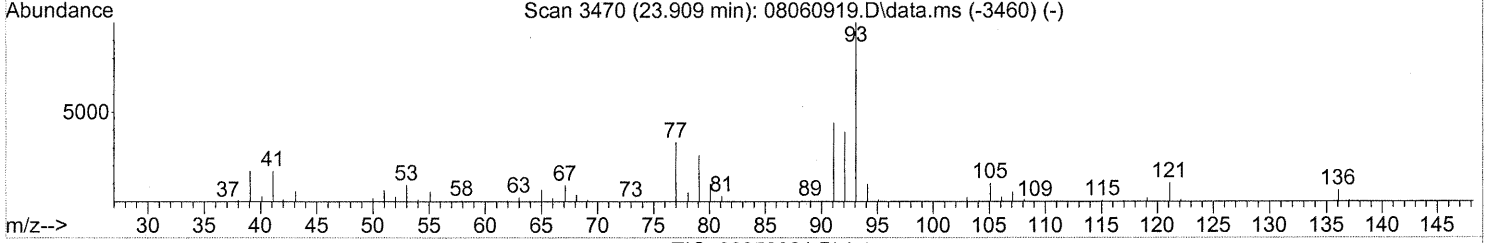
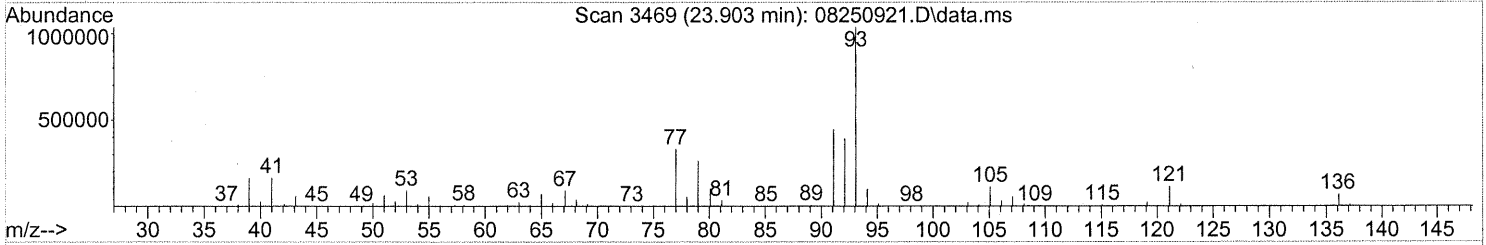
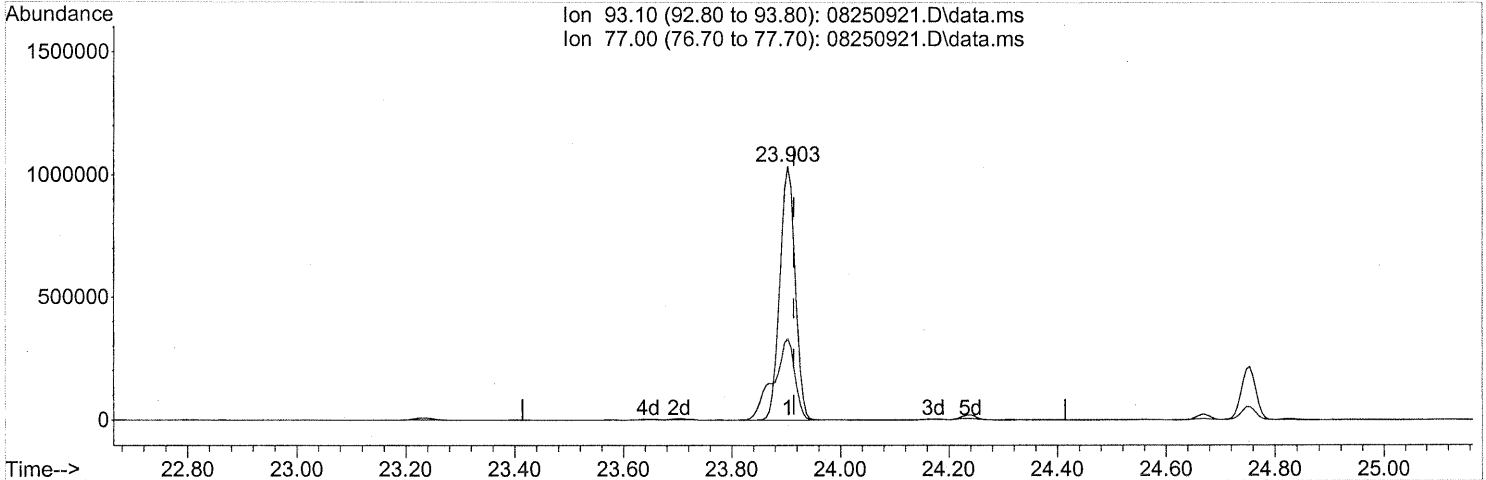
(71) n-Nonane (T)
 22.909min (-0.017) 2.67ng
 response 71485

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	85.68
85.10	30.40	31.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
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Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



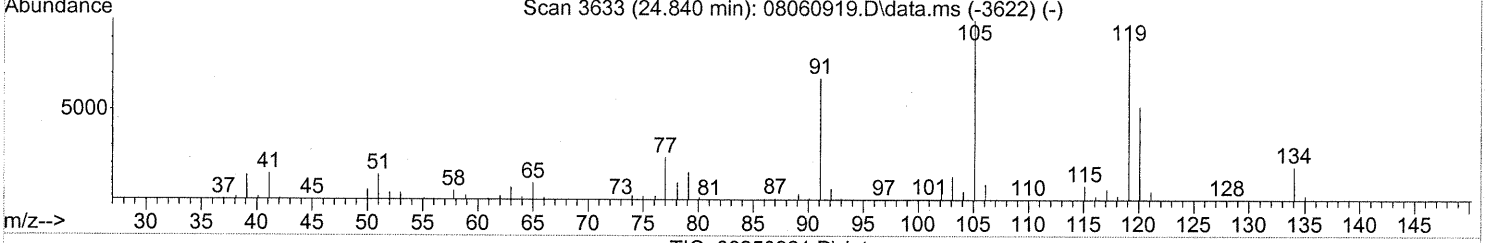
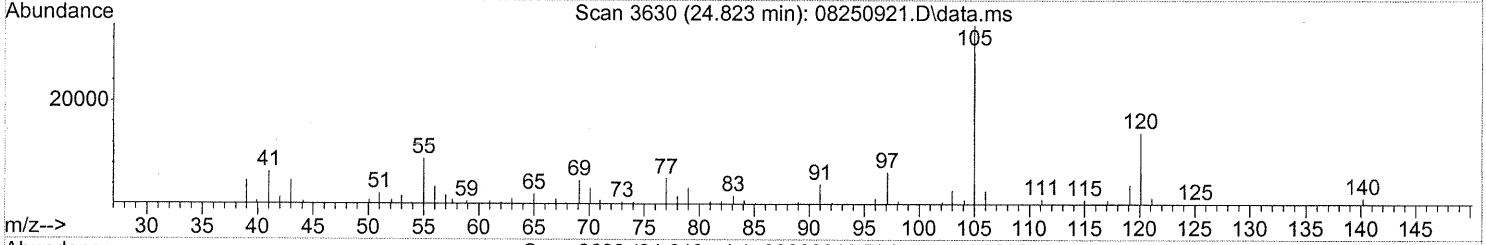
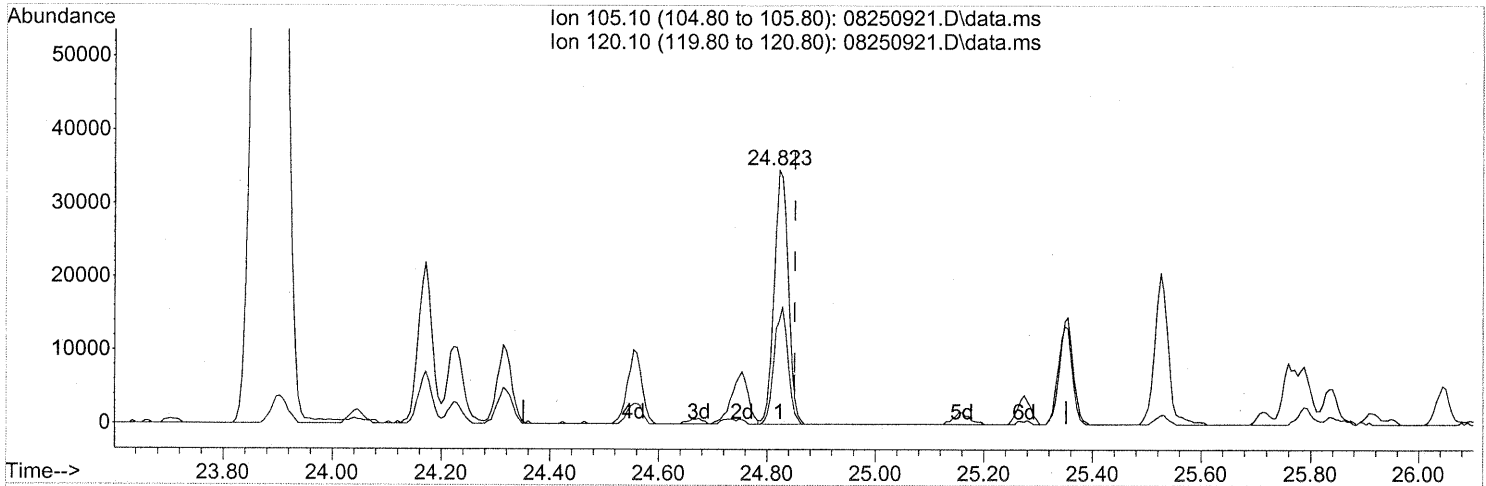
(75) alpha-Pinene (T)
 23.903min (-0.011) 77.75ng
 response 2027191

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	45.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250921.D\data.ms

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

24.823min (-0.029) 1.54ng

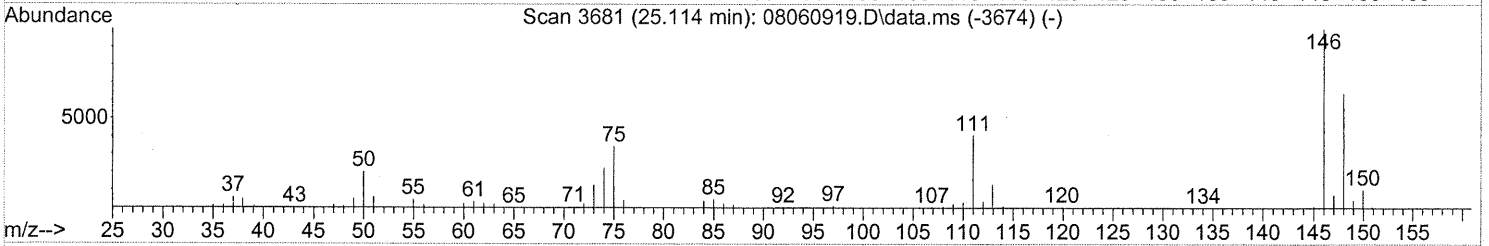
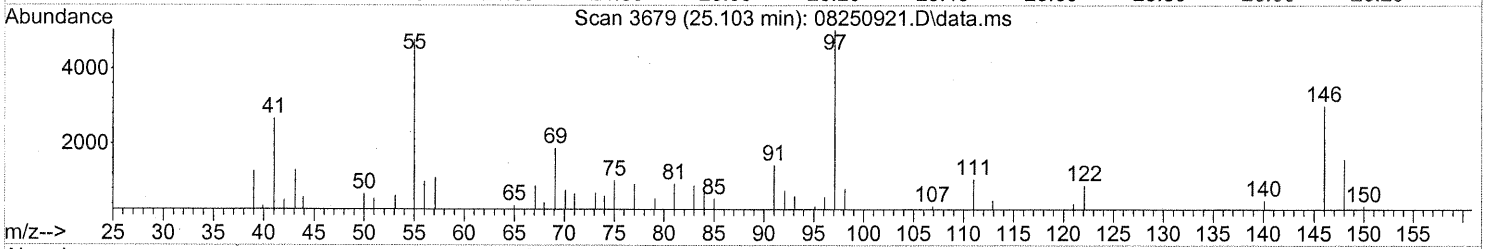
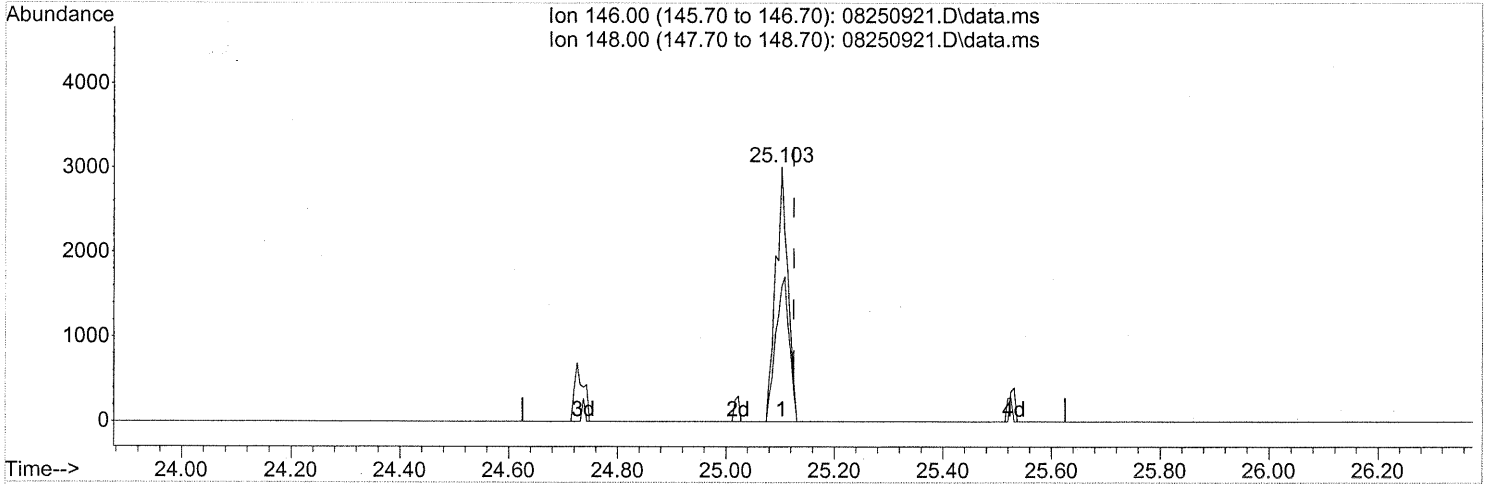
response 62511

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08250921.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.22ng

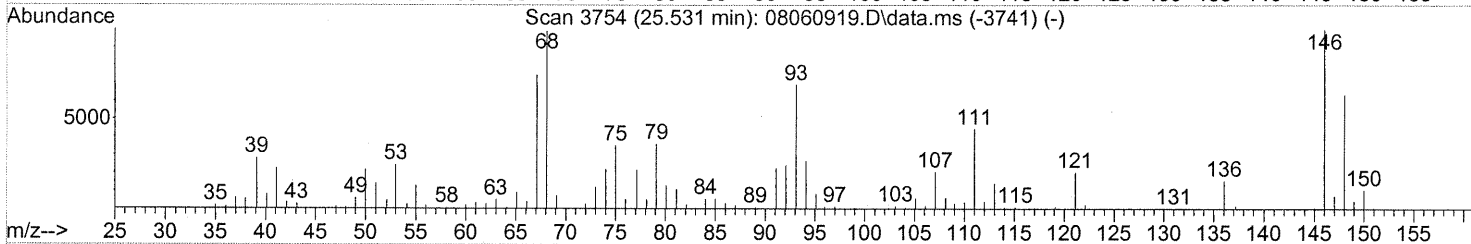
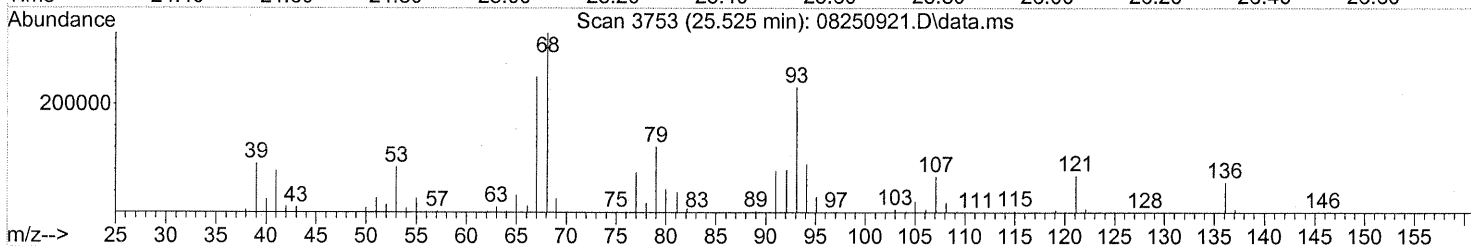
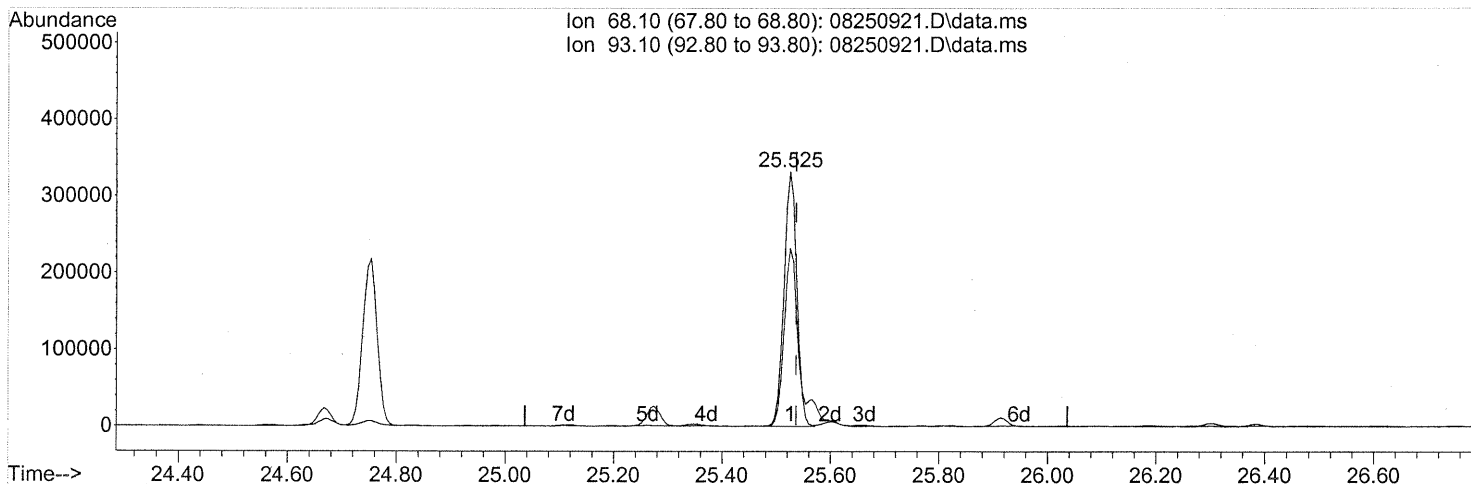
response 4718

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	62.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250921.D
 Acq On : 26 Aug 2009 1:05
 Operator : WA/CC
 Sample : P0902876-004 (1000mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 26 06:39:48 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



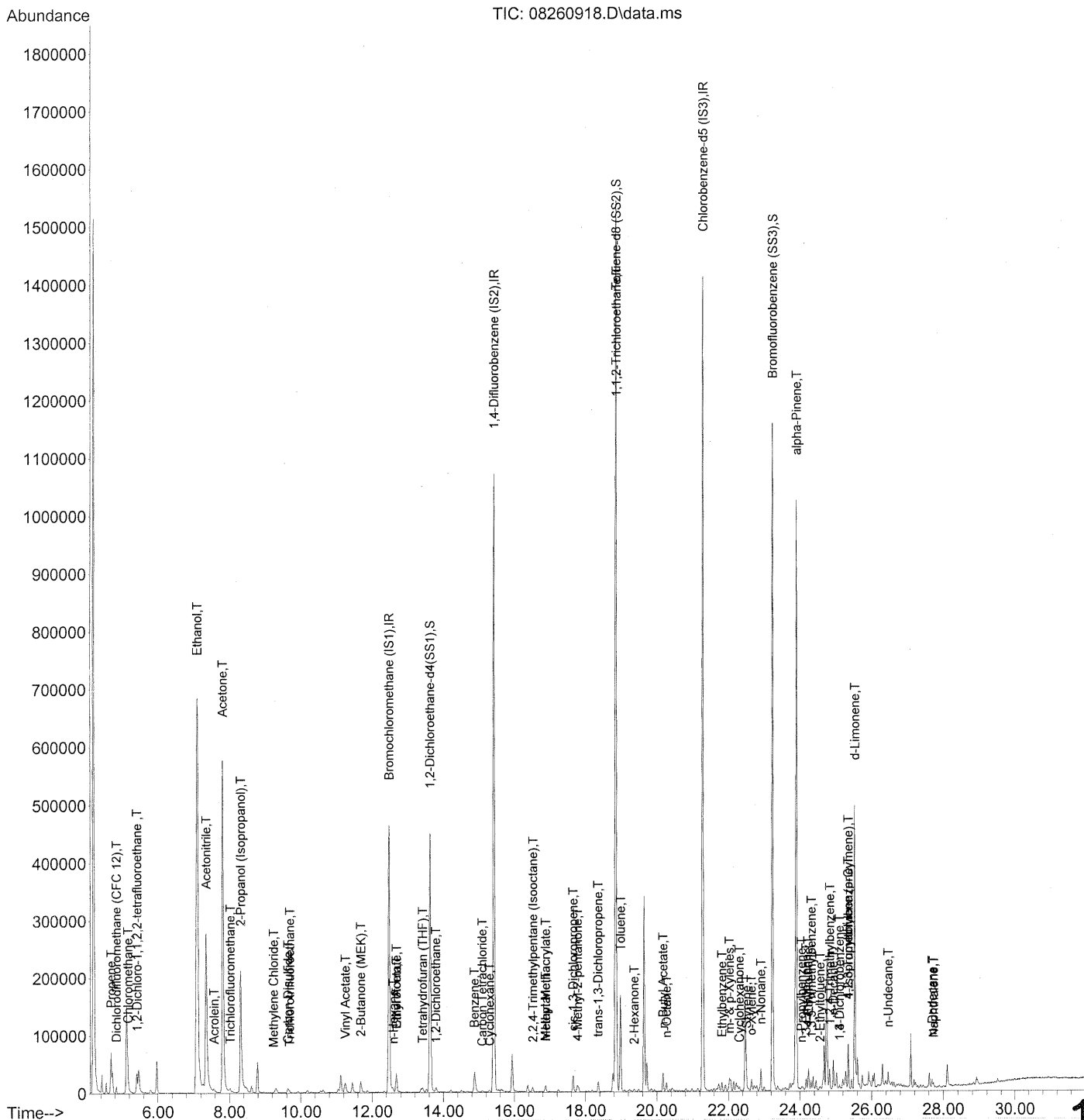
TIC: 08250921.D\data.ms

(91) d-Limonene (T)
 25.525min (-0.011) 32.02ng
 response 551593

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	82.89
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260918.D
 Acq On : 26 Aug 2009 10:13 pm
 Operator : WA/CC
 Sample : P0902876-004 dil (200mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 06:22:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260918.D
 Acq On : 26 Aug 2009 10:13 pm
 Operator : WA/CC
 Sample : P0902876-004 dil (200mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 06:22:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

17 9/2/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	237547	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1198423	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	586178	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	466563	22.597	ng	-0.04 ✓
Spiked Amount	25.000		Recovery	=	90.40%	
57) Toluene-d8 (SS2)	18.85	98	1317675	25.726	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	102.92%	
73) Bromofluorobenzene (SS3)	23.23	174	381942	28.277	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	113.12%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	31799	1.951	ng	87
3) Dichlorodifluoromethan...	4.84	85	11426	0.429	ng	98
4) Chloromethane	5.16	50	4812	0.269	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	670	0.062	ng	# 44
6) Vinyl Chloride	0.00	62	0	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	7.09	45	1545395	149.563	ng	100
11) Acetonitrile	7.34	41	494402	16.338	ng	99
12) Acrolein	7.57	56	6244	0.794	ng	99
13) Acetone	7.81	58	324080	33.241	ng	91
14) Trichlorofluoromethane	8.02	101	5097	0.212	ng	96
15) 2-Propanol (Isopropanol)	8.31	45	466725	12.182	ng	99
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.36	59	1203	N.D.		
19) Methylene Chloride	9.23	84	888	0.068	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	136	N.D.		
21) Trichlorotrifluoroethane	9.68	151	707	0.081	ng	99
22) Carbon Disulfide	9.63	76	19083	0.413	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	11.21	73	94	N.D.		
26) Vinyl Acetate	11.24	86	2869	1.446	ng	# 77
27) 2-Butanone (MEK)	11.68	72	9086	1.032	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	532	N.D.		
30) Ethyl Acetate	12.67	61	5994	1.307	ng	99
31) n-Hexane	12.59	57	2889	0.123	ng	72

183

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260918.D
 Acq On : 26 Aug 2009 10:13 pm
 Operator : WA/CC
 Sample : P0902876-004 dil (200mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 06:22:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	6475	0.314	ng	94
34) Tetrahydrofuran (THF)	13.41	72	2203	0.235	ng #	30
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	5988	0.317	ng	93
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.84	61	188	N.D.		
40) 1-Butanol	15.01	56	94	N.D.		
41) Benzene	14.87	78	8241	0.156	ng	98
42) Carbon Tetrachloride	15.09	117	1572	0.094	ng	87
43) Cyclohexane	15.29	84	1915	0.099	ng #	78
44) tert-Amyl Methyl Ether	15.85	73	200	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	791	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...	16.52	57	8123	0.131	ng	91
50) Methyl Methacrylate	16.88	100	536	0.111	ng #	1
51) n-Heptane	16.88	71	3173	0.224	ng	90
52) cis-1,3-Dichloropropene	17.65	75	22530	1.027	ng	99
53) 4-Methyl-2-pentanone	17.77	58	3834	0.303	ng	99
54) trans-1,3-Dichloropropene	18.35	75	15493	0.743	ng	99
55) 1,1,2-Trichloroethane	18.86	97	111407	9.630	ng #	5
58) Toluene	18.98	91	149344	2.967	ng	99
59) 2-Hexanone	19.36	43	5137	0.153	ng	88
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	28599	0.725	ng	95
63) n-Octane	20.27	57	3093	0.254	ng	95
64) Tetrachloroethene	20.47	166	178	N.D.		
65) Chlorobenzene	21.34	112	371	N.D.		
66) Ethylbenzene	21.82	91	14664	0.255	ng	97
67) m- & p-Xylenes	22.03	91	21913	0.471	ng	96
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	13682	0.407	ng #	64
70) o-Xylene	22.65	91	9648	0.207	ng	96
71) n-Nonane	22.91	43	18060	0.582	ng	96
72) 1,1,2,2-Tetrachloroethane	22.72	83	606	N.D.		
74) Cumene	23.40	105	1606	N.D.		
75) alpha-Pinene	23.90	93	471068	15.589	ng	78
76) n-Propylbenzene	24.04	91	4567	0.062	ng	87
77) 3-Ethyltoluene	24.17	105	9678	0.172	ng	97
78) 4-Ethyltoluene	24.23	105	4986	0.091	ng	88
79) 1,3,5-Trimethylbenzene	24.31	105	4621	0.100	ng	92

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260918.D
 Acq On : 26 Aug 2009 10:13 pm
 Operator : WA/CC
 Sample : P0902876-004 dil (200mL)
 Misc : Environmental Health 102352
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 06:22:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

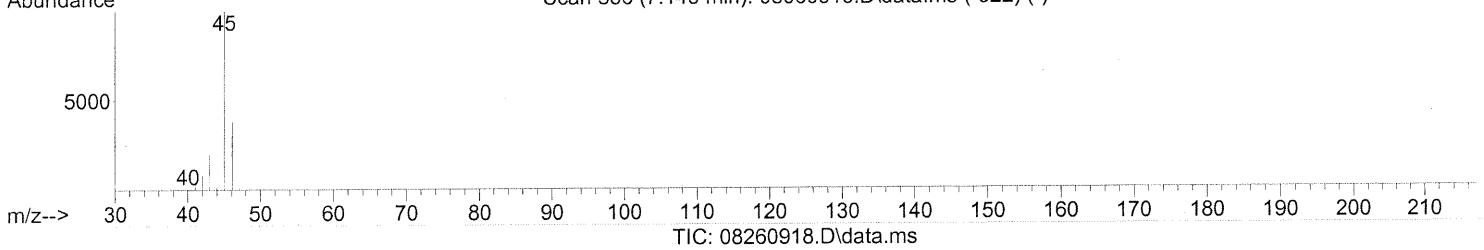
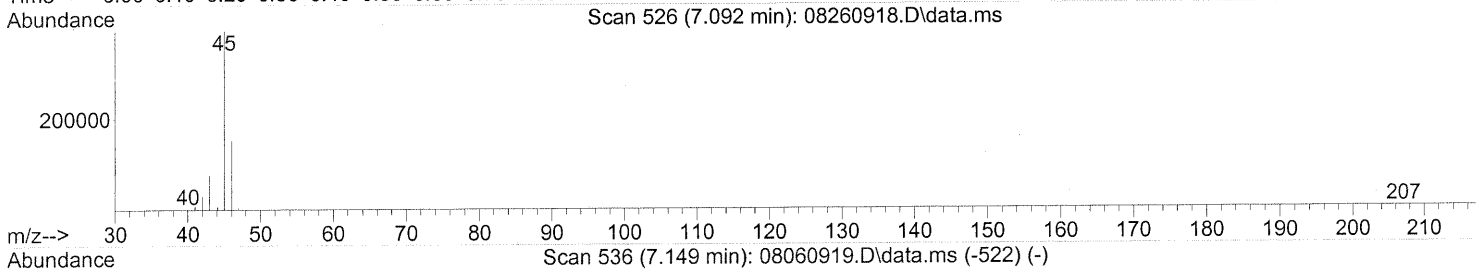
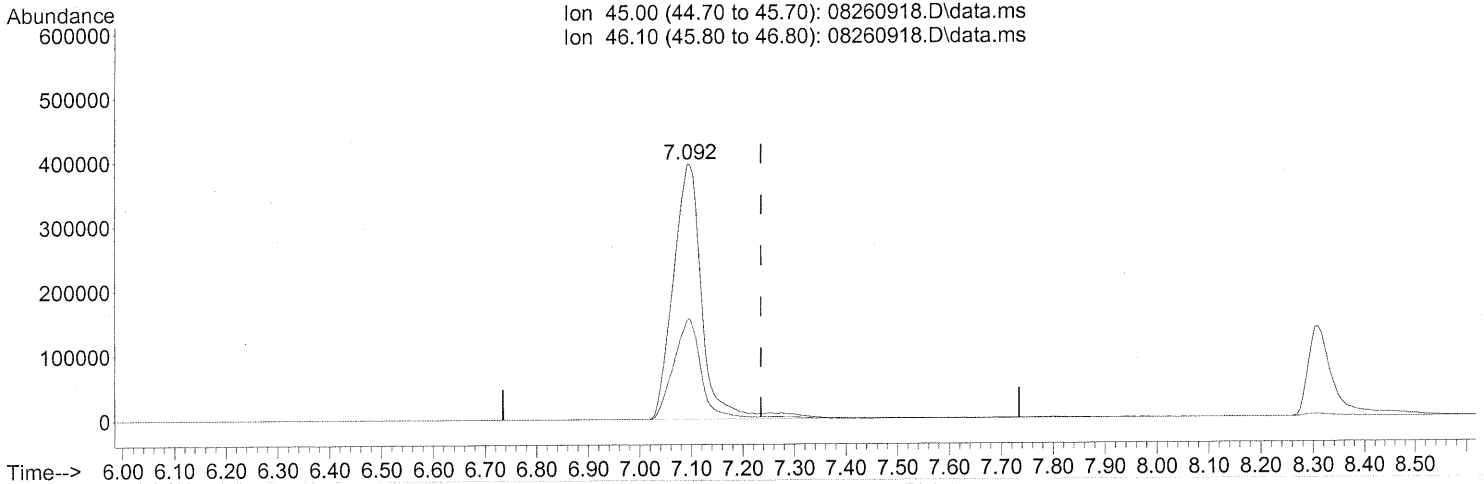
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	152	N.D.		
81) 2-Ethyltoluene	24.56	105	4639	0.082	ng	93
82) 1,2,4-Trimethylbenzene	24.83	105	14688	0.313	ng	89
83) n-Decane	24.93	57	21127	0.692	ng	95
84) Benzyl Chloride	24.99	91	2029	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	1366	0.057	ng	82
86) 1,4-Dichlorobenzene	25.10	146	1366	0.054	ng	82
87) sec-Butylbenzene	25.15	105	1346	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	37729	0.667	ng	92
89) 1,2,3-Trimethylbenzene	25.35	105	6139	0.128	ng	# 40
90) 1,2-Dichlorobenzene	25.52	146	199	N.D.		
91) d-Limonene	25.53	68	124638	6.242	ng	84
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	9528	0.293	ng	81
94) 1,2,4-Trichlorobenzene	27.58	180	273	N.D.		
95) Naphthalene	27.73	128	5977	0.094	ng	91
96) n-Dodecane	27.70	57	6259	0.166	ng	91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	4104	0.197	ng	92
99) tert-Butylbenzene	24.82	119	2100	N.D.		
100) n-Butylbenzene	25.86	91	1389	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260918.D
Acq On : 26 Aug 2009 10:13 pm
Operator : WA/CC
Sample : P0902876-004 dil (200mL)
Misc : Environmental Health 102352
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 27 06:22:04 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.092min (-0.143) 149.56ng

response 1545395

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.28
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: 102353

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-005

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00672

Date Collected: 8/18/09

Date Received: 8/20/09

Date Analyzed: 8/26/09

Volume(s) Analyzed: 1.00 Liter(s)

0.20 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	14	0.67	8.2	0.39	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.8	0.67	0.57	0.14	
74-87-3	Chloromethane	0.82	0.13	0.40	0.065	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.67	ND	0.096	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.052	
106-99-0	1,3-Butadiene	0.15	0.13	0.067	0.061	
74-83-9	Bromomethane	ND	0.13	ND	0.035	
75-00-3	Chloroethane	ND	0.13	ND	0.051	
64-17-5	Ethanol	1,100	6.7	610	3.6	D
75-05-8	Acetonitrile	100	0.67	61	0.40	
107-02-8	Acrolein	4.9	0.67	2.1	0.29	
67-64-1	Acetone	200	6.7	83	2.8	
75-69-4	Trichlorofluoromethane	1.5	0.13	0.26	0.024	
67-63-0	2-Propanol (Isopropyl Alcohol)	69	0.67	28	0.27	
107-13-1	Acrylonitrile	ND	0.67	ND	0.31	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.034	
75-09-2	Methylene Chloride	ND	0.67	ND	0.19	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.043	
76-13-1	Trichlorotrifluoroethane	0.62	0.13	0.081	0.017	
75-15-0	Carbon Disulfide	2.6	0.67	0.85	0.22	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.034	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.033	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.037	
108-05-4	Vinyl Acetate	7.7	6.7	2.2	1.9	
78-93-3	2-Butanone (MEK)	6.0	0.67	2.0	0.23	

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.

D = The reported result is from a dilution.

Verified By:  Date: 9/9/09 **187**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102353
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00672

CAS Project ID: P0902876
CAS Sample ID: P0902876-005
Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

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	0.034	
141-78-6	Ethyl Acetate	9.8	0.67	2.7	0.19	
110-54-3	n-Hexane	0.82	0.67	0.23	0.19	
67-66-3	Chloroform	1.8	0.13	0.37	0.027	
109-99-9	Tetrahydrofuran (THF)	ND	0.67	ND	0.23	
107-06-2	1,2-Dichloroethane	2.1	0.13	0.52	0.033	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.025	
71-43-2	Benzene	0.89	0.13	0.28	0.042	
56-23-5	Carbon Tetrachloride	0.53	0.13	0.084	0.021	
110-82-7	Cyclohexane	ND	0.67	ND	0.19	
78-87-5	1,2-Dichloropropane	0.16	0.13	0.034	0.029	
75-27-4	Bromodichloromethane	0.37	0.13	0.055	0.020	
79-01-6	Trichloroethene	ND	0.13	ND	0.025	
123-91-1	1,4-Dioxane	ND	0.67	ND	0.19	
80-62-6	Methyl Methacrylate	ND	0.67	ND	0.16	
142-82-5	n-Heptane	1.6	0.67	0.38	0.16	
10061-01-5	cis-1,3-Dichloropropene	7.0	0.67	1.5	0.15	
108-10-1	4-Methyl-2-pentanone	2.2	0.67	0.54	0.16	
10061-02-6	trans-1,3-Dichloropropene	4.9	0.67	1.1	0.15	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.025	
108-88-3	Toluene	21	0.67	5.5	0.18	
591-78-6	2-Hexanone	0.87	0.67	0.21	0.16	
124-48-1	Dibromochloromethane	0.20	0.13	0.023	0.016	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.017	
123-86-4	n-Butyl Acetate	5.5	0.67	1.2	0.14	

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: _____

9/8/09

188

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102353
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00672

CAS Project ID: P0902876
 CAS Sample ID: P0902876-005

Date Collected: 8/18/09
 Date Received: 8/20/09
 Date Analyzed: 8/26/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.20 Liter(s)

Initial Pressure (psig): -1.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.34

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.7	0.67	0.37	0.14	
127-18-4	Tetrachloroethene	0.23	0.13	0.034	0.020	
108-90-7	Chlorobenzene	ND	0.13	ND	0.029	
100-41-4	Ethylbenzene	1.1	0.67	0.26	0.15	
179601-23-1	m,p-Xylenes	3.0	0.67	0.69	0.15	
75-25-2	Bromoform	ND	0.67	ND	0.065	
100-42-5	Styrene	2.9	0.67	0.67	0.16	
95-47-6	o-Xylene	1.3	0.67	0.30	0.15	
111-84-2	n-Nonane	3.5	0.67	0.68	0.13	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.020	
98-82-8	Cumene	ND	0.67	ND	0.14	
80-56-8	alpha-Pinene	100	0.67	18	0.12	
103-65-1	n-Propylbenzene	ND	0.67	ND	0.14	
622-96-8	4-Ethyltoluene	ND	0.67	ND	0.14	
108-67-8	1,3,5-Trimethylbenzene	0.69	0.67	0.14	0.14	
95-63-6	1,2,4-Trimethylbenzene	2.2	0.67	0.44	0.14	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.022	
106-46-7	1,4-Dichlorobenzene	0.27	0.13	0.045	0.022	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.022	
5989-27-5	d-Limonene	46	0.67	8.2	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.67	ND	0.069	
120-82-1	1,2,4-Trichlorobenzene	ND	0.67	ND	0.090	
91-20-3	Naphthalene	ND	0.67	ND	0.13	
87-68-3	Hexachlorobutadiene	ND	0.67	ND	0.063	

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: _____

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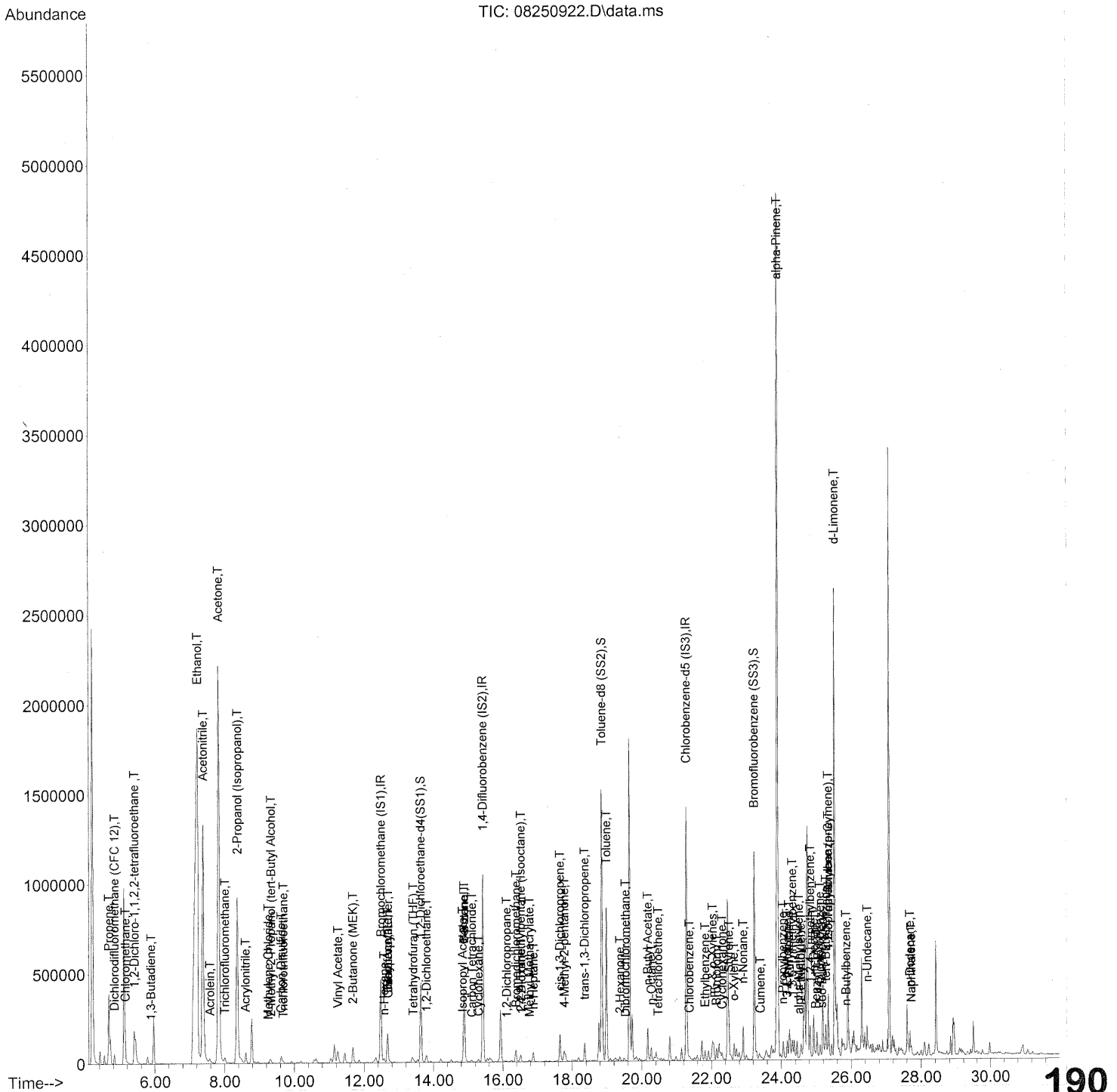
Date: _____

9/2/09

189

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 09:22:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 09:22:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

um 9/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	240632	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1207487	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	584510	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	453905	21.702	ng	-0.03
Spiked Amount	25.000		Recovery	= 86.80%		
57) Toluene-d8 (SS2)	18.85	98	1315542	25.758	ng	-0.02
Spiked Amount	25.000		Recovery	= 103.04%		
73) Bromofluorobenzene (SS3)	23.23	174	383298	28.459	ng	-0.01
Spiked Amount	25.000		Recovery	= 113.84%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	174758m	10.583	ng	
3) Dichlorodifluoromethan...	4.84	85	56597	2.097	ng	99
4) Chloromethane	5.15	50	11093	0.612	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	2534	0.231	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	1375	0.110	ng	# 74
8) Bromomethane	6.36	94	209	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.22	45	6863885	655.770	ng	100
11) Acetonitrile	7.38	41	2345822	76.527	ng	100
12) Acrolein	7.57	56	28884	3.625	ng	100
13) Acetone	7.82	58	1447812	146.600	ng	91
14) Trichlorofluoromethane	8.01	101	26482	1.085	ng	100
15) 2-Propanol (Isopropanol)	8.37	45	2011752	51.836	ng	99
16) Acrylonitrile	8.59	53	2102	0.118	ng	# 72
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.33	59	11981	0.348	ng	# 58
19) Methylene Chloride	9.25	84	2392	0.180	ng	89
20) 3-Chloro-1-propene (Al...	9.41	41	425	N.D.		
21) Trichlorotrifluoroethane	9.68	151	4109	0.463	ng	95
22) Carbon Disulfide	9.62	76	92418	1.976	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	11.19	73	1245	N.D.		
26) Vinyl Acetate	11.24	86	11563	5.753	ng	# 41
27) 2-Butanone (MEK)	11.68	72	39706	4.453	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	3690	0.309	ng	# 1
30) Ethyl Acetate	12.67	61	33944	7.307	ng	97
31) n-Hexane	12.58	57	14517	0.611	ng	96

See App

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 09:22:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	28564	1.365 ng		94
34) Tetrahydrofuran (THF)	13.41	72	4622	0.486 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	30051	1.572 ng		96
38) 1,1,1-Trichloroethane	14.18	97	246	N.D.		
39) Isopropyl Acetate	14.84	61	2639	0.295 ng	#	1
40) 1-Butanol	14.88	56	329248	21.010 ng	#	79
41) Benzene	14.88	78	35387	0.667 ng		97
42) Carbon Tetrachloride	15.11	117	6682	0.395 ng		93
43) Cyclohexane	15.29	84	8277	0.426 ng		93
44) tert-Amyl Methyl Ether	16.06	73	298	N.D.		
45) 1,2-Dichloropropane	16.11	63	1578	0.118 ng		84
46) Bromodichloromethane	16.38	83	4849	0.277 ng		93
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.53	88	634	0.062 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	38230	0.611 ng		88
50) Methyl Methacrylate	16.77	100	932	0.191 ng	#	85
51) n-Heptane	16.88	71	16519	1.159 ng		96
52) cis-1,3-Dichloropropene	17.65	75	115070	5.207 ng		99
53) 4-Methyl-2-pentanone	17.77	58	20936	1.641 ng		97
54) trans-1,3-Dichloropropene	18.36	75	76812	3.656 ng		97
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	774691	15.434 ng		99
59) 2-Hexanone	19.37	43	21551	0.646 ng		98
60) Dibromochloromethane	19.53	129	1740	0.147 ng		90
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	161631	4.108 ng		97
63) n-Octane	20.28	57	15483	1.276 ng		97
64) Tetrachloroethene	20.47	166	1991	0.171 ng		98
65) Chlorobenzene	21.37	112	2143	0.069 ng	#	43
66) Ethylbenzene	21.82	91	48241	0.841 ng		98
67) m- & p-Xylenes	22.04	91	103394	2.228 ng		97
68) Bromoform	22.14	173	962	0.098 ng	#	44
69) Styrene	22.50	104	71733	2.138 ng	#	63
70) o-Xylene	22.65	91	45376	0.975 ng		97
71) n-Nonane	22.91	43	81739	2.643 ng		98
72) 1,1,2,2-Tetrachloroethane	22.65	83	814	N.D.		
74) Cumene	23.41	105	6801	0.116 ng		94
75) alpha-Pinene	23.90	93	2281771	75.723 ng		79
76) n-Propylbenzene	24.05	91	18729	0.253 ng	#	66
77) 3-Ethyltoluene	24.17	105	46618	0.830 ng		98
78) 4-Ethyltoluene	24.23	105	24689	0.454 ng		95
79) 1,3,5-Trimethylbenzene	24.31	105	23721	0.517 ng		99

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 01 09:22:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

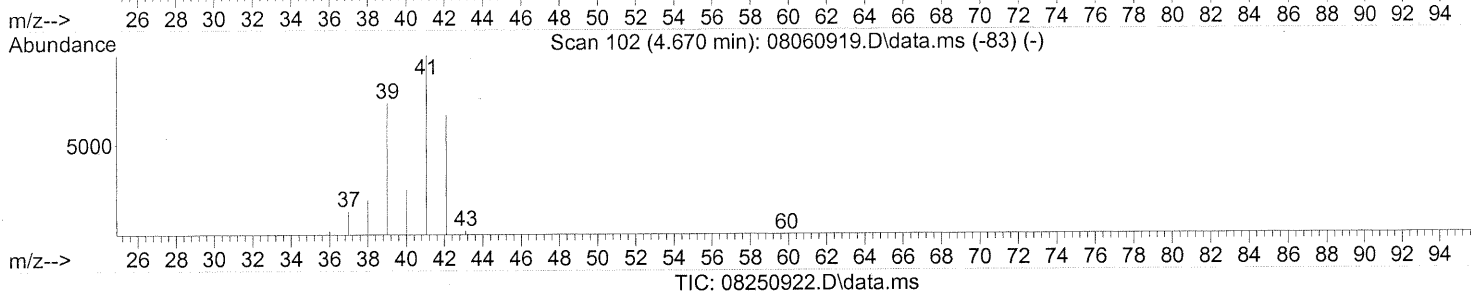
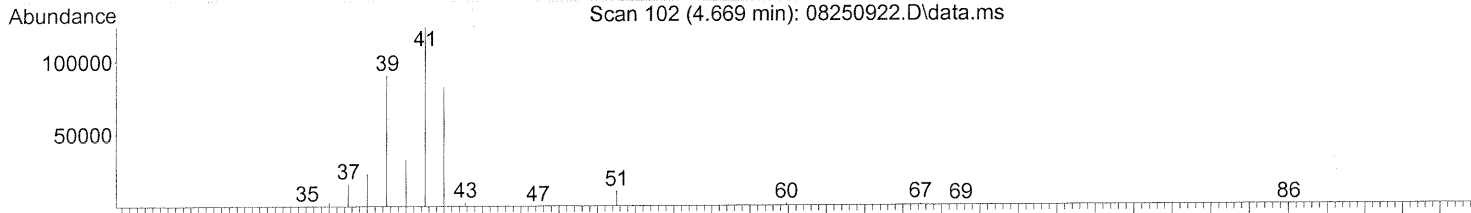
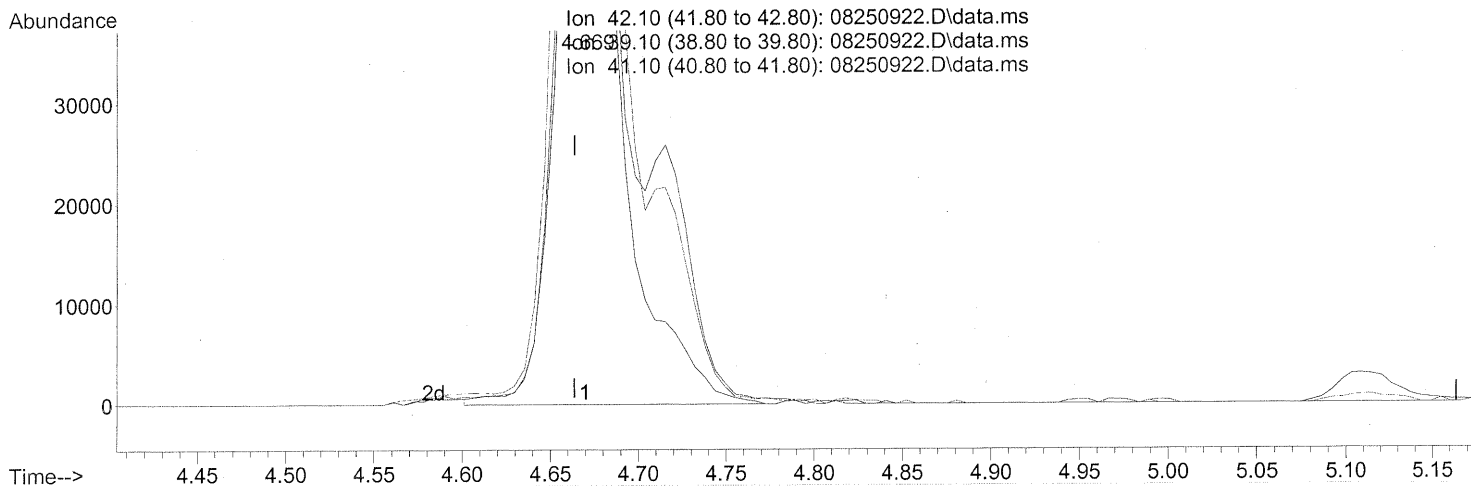
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	1848	0.075	ng	83
81) 2-Ethyltoluene	24.56	105	21765	0.384	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	75549	1.614	ng	89
83) n-Decane	24.93	57	94052	3.090	ng	91
84) Benzyl Chloride	24.99	91	2800	0.064	ng	82
85) 1,3-Dichlorobenzene	25.02	146	351	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	5165	0.204	ng	96
87) sec-Butylbenzene	25.17	105	5498	0.087	ng	# 73
88) 4-Isopropyltoluene (p-...	25.35	119	158967	2.819	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	30182	0.633	ng	# 49
90) 1,2-Dichlorobenzene	25.53	146	632	N.D.		
91) d-Limonene	25.53	68	679724	34.139	ng	# 72
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	49717	1.535	ng	74
94) 1,2,4-Trichlorobenzene	27.58	180	501	N.D.		
95) Naphthalene	27.72	128	29642	0.466	ng	96
96) n-Dodecane	27.69	57	42721	1.135	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	22232	1.069	ng	94
99) tert-Butylbenzene	25.27	119	6903	0.152	ng	98
100) n-Butylbenzene	25.86	91	13580	0.260	ng	# 56

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.669min (+0.006) 11.20ng

response 185023

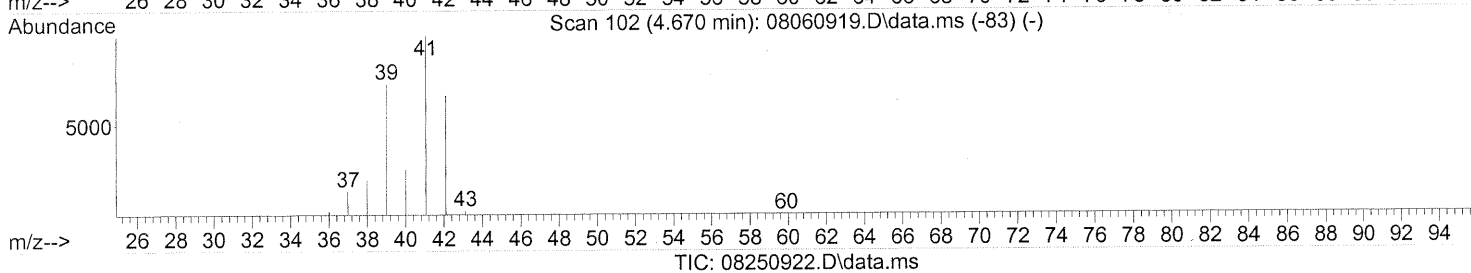
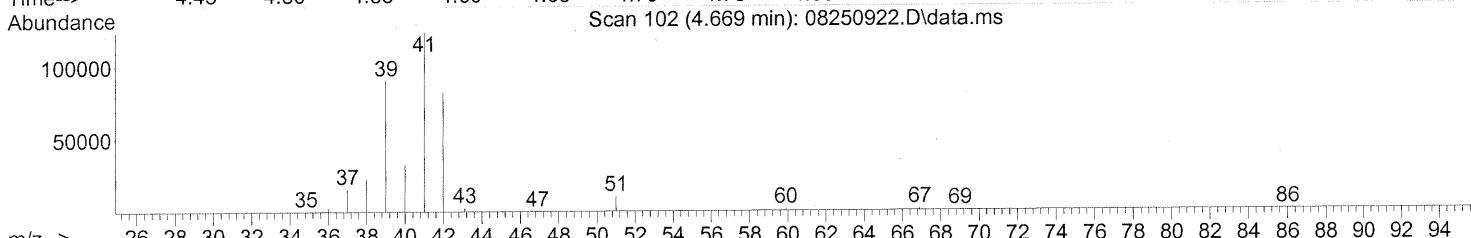
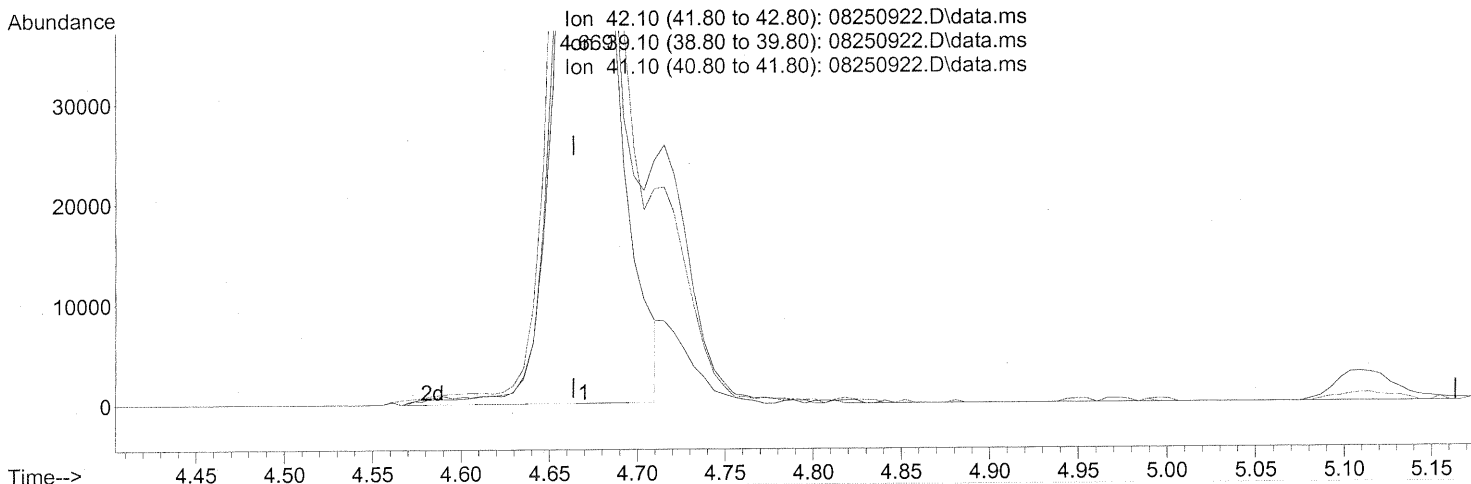
SH

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	127.85
41.10	150.20	160.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.669min (+0.006) 10.58ng m
 response 174758

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	135.36#
41.10	150.20	169.95
0.00	0.00	0.00

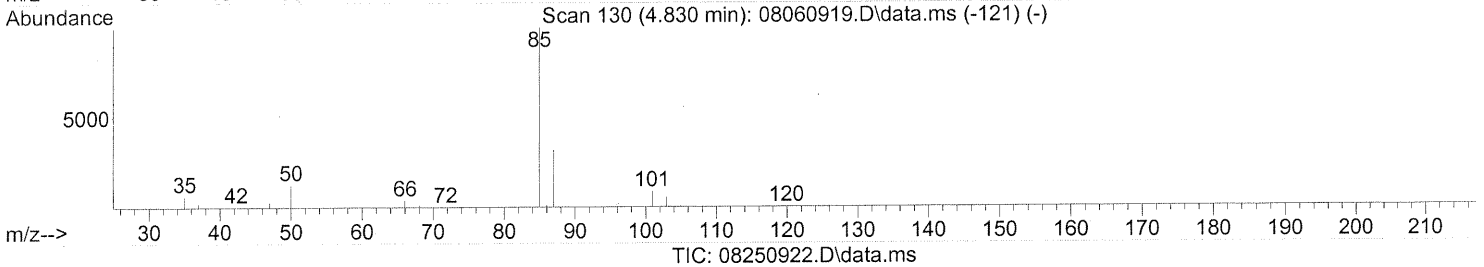
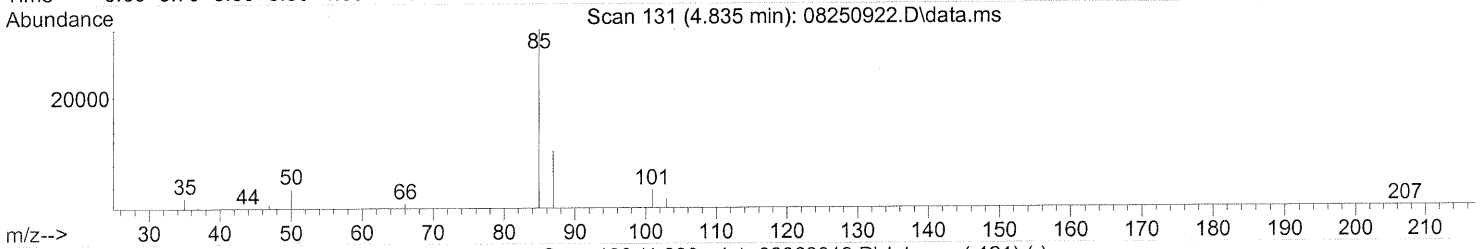
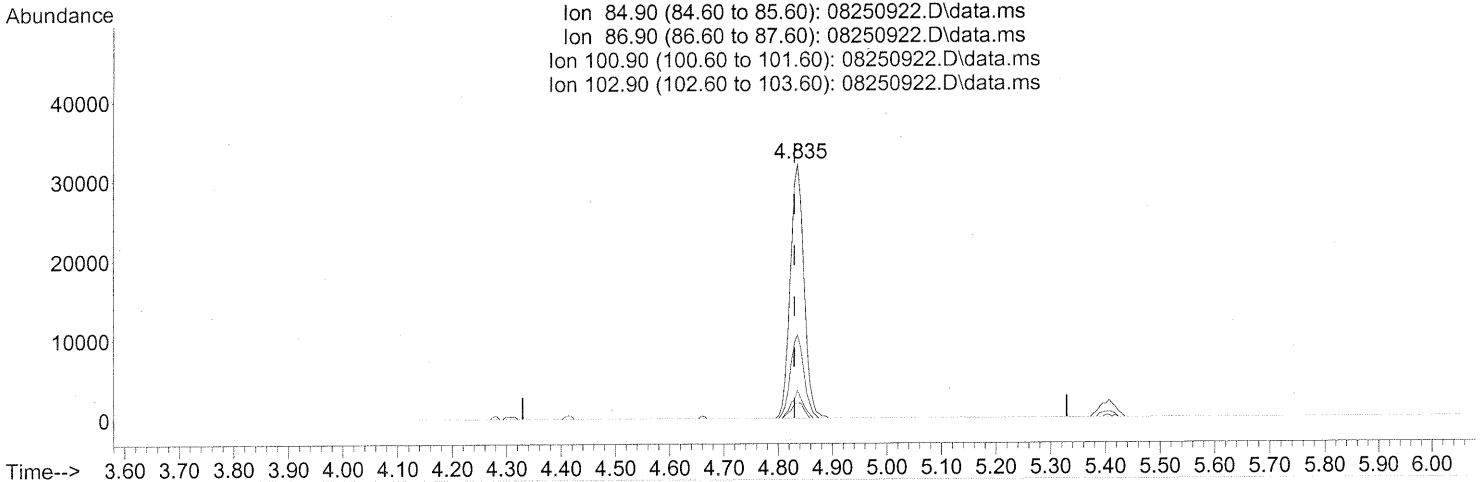
SH-1C
11/9/09

— 2/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.006) 2.10ng

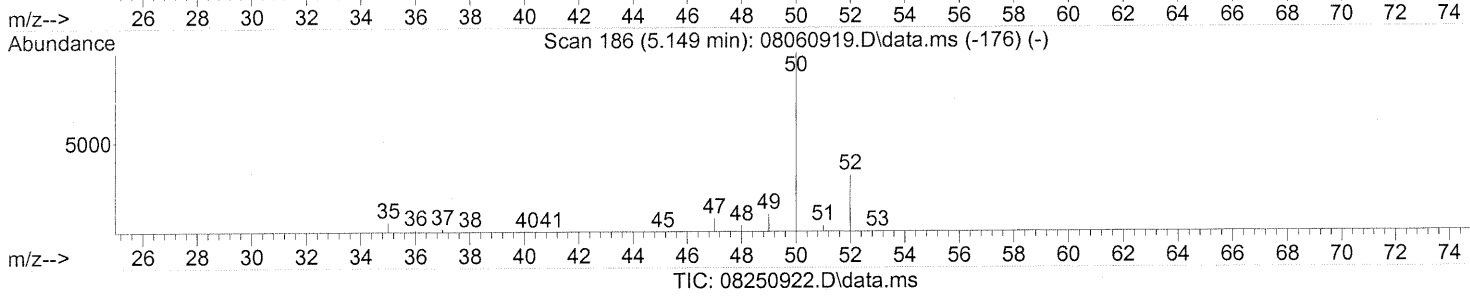
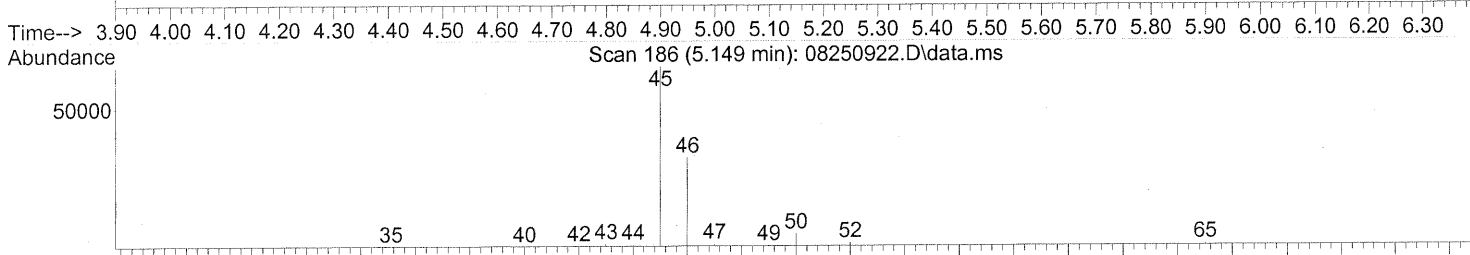
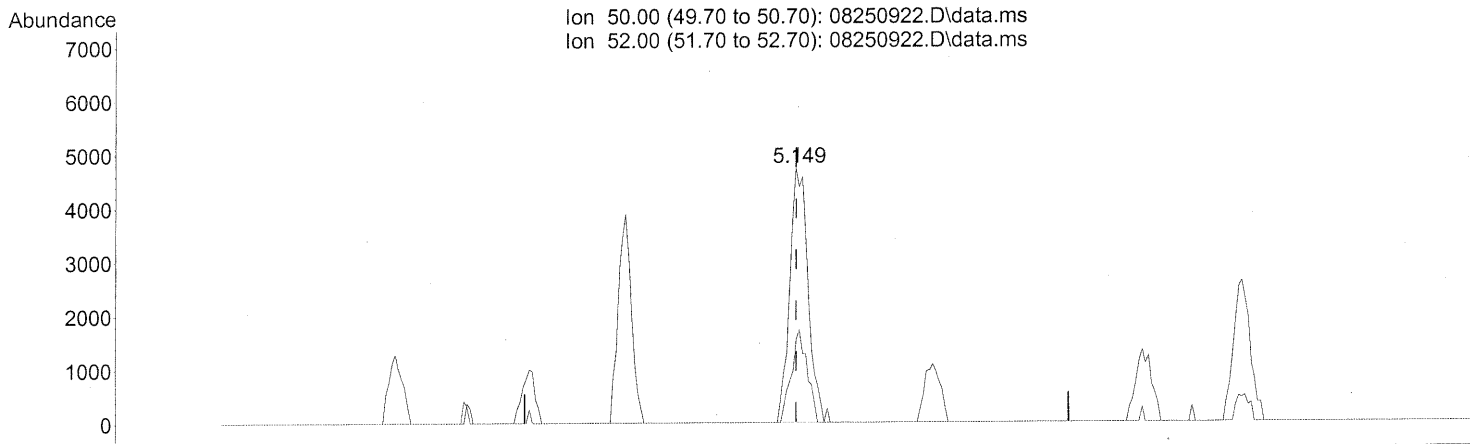
response 56597

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.56
100.90	8.80	9.05
102.90	5.20	5.64

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.149min (-0.000) 0.61ng
 response 11093

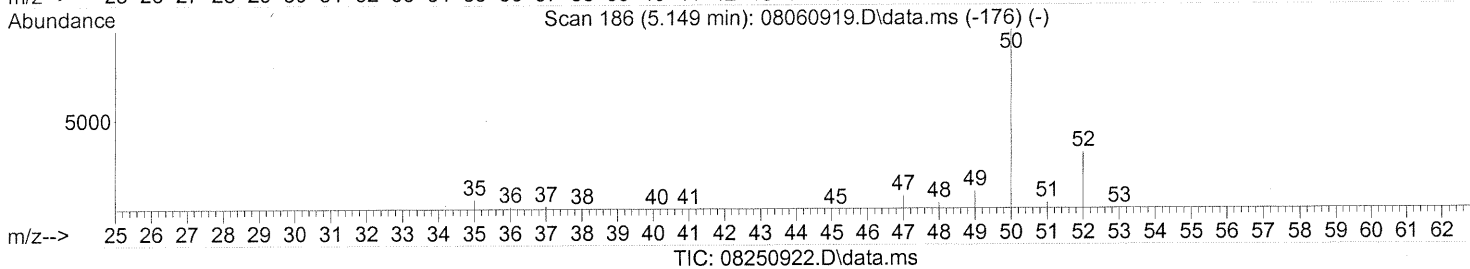
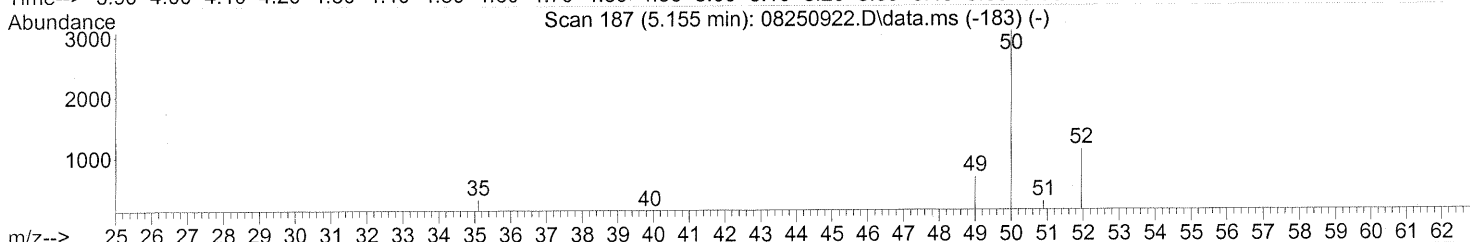
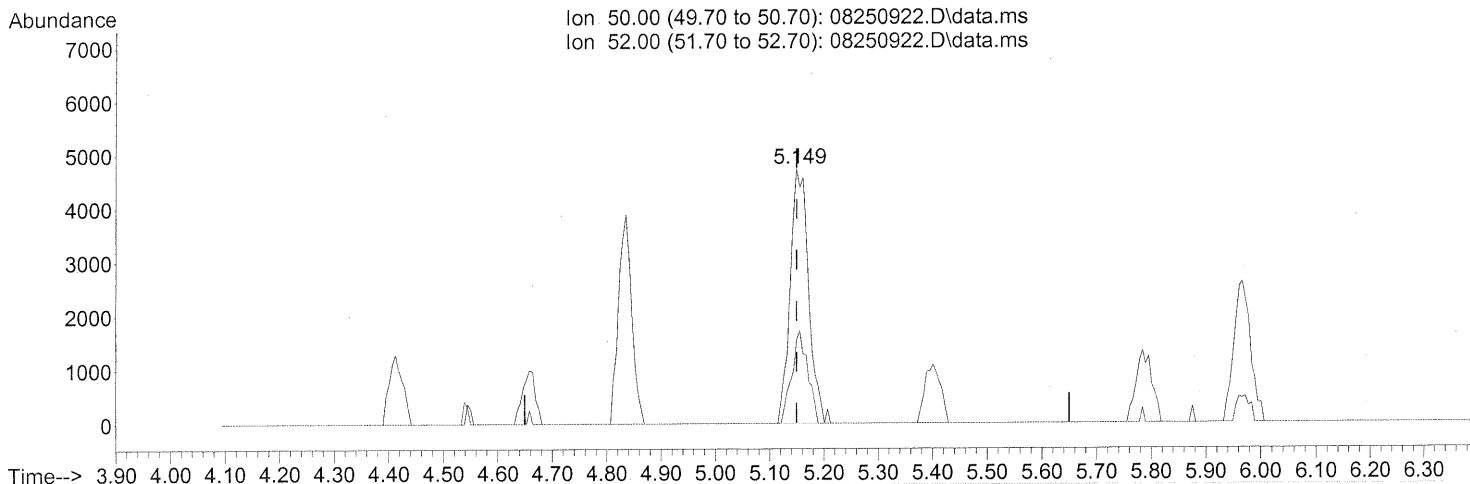
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.52
0.00	0.00	0.00
0.00	0.00	0.00

Before see to

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.149min (-0.000) 0.61ng
 response 11093

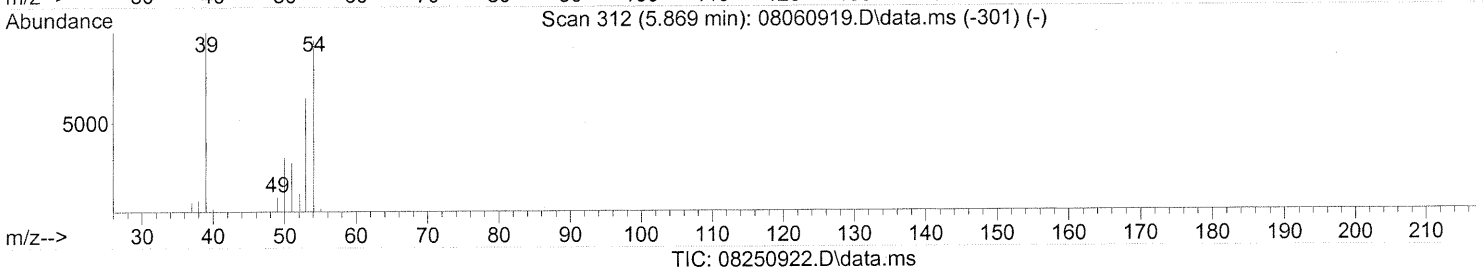
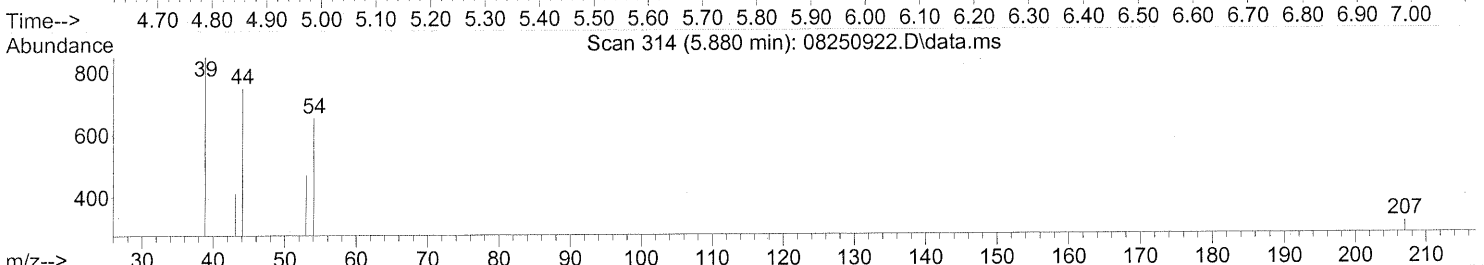
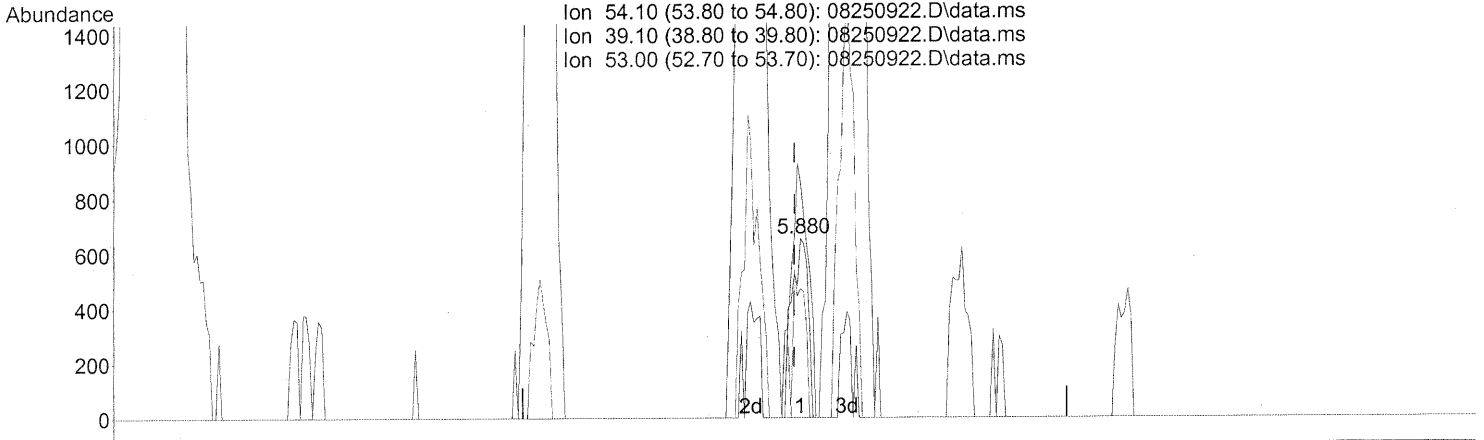
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.52
0.00	0.00	0.00
0.00	0.00	0.00

after subtract

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(7) 1,3-Butadiene (T)

5.880min (+0.011) 0.11ng

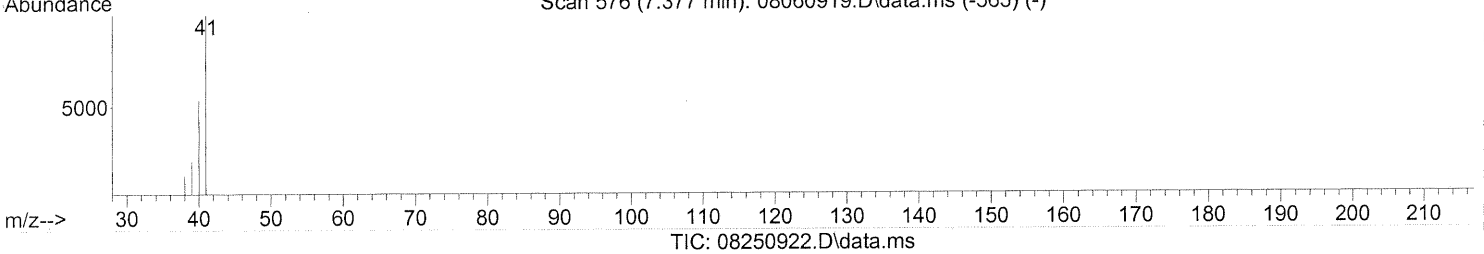
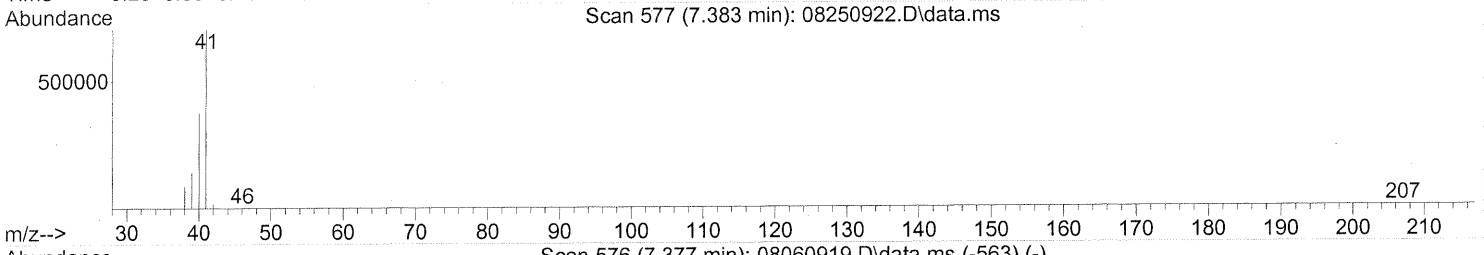
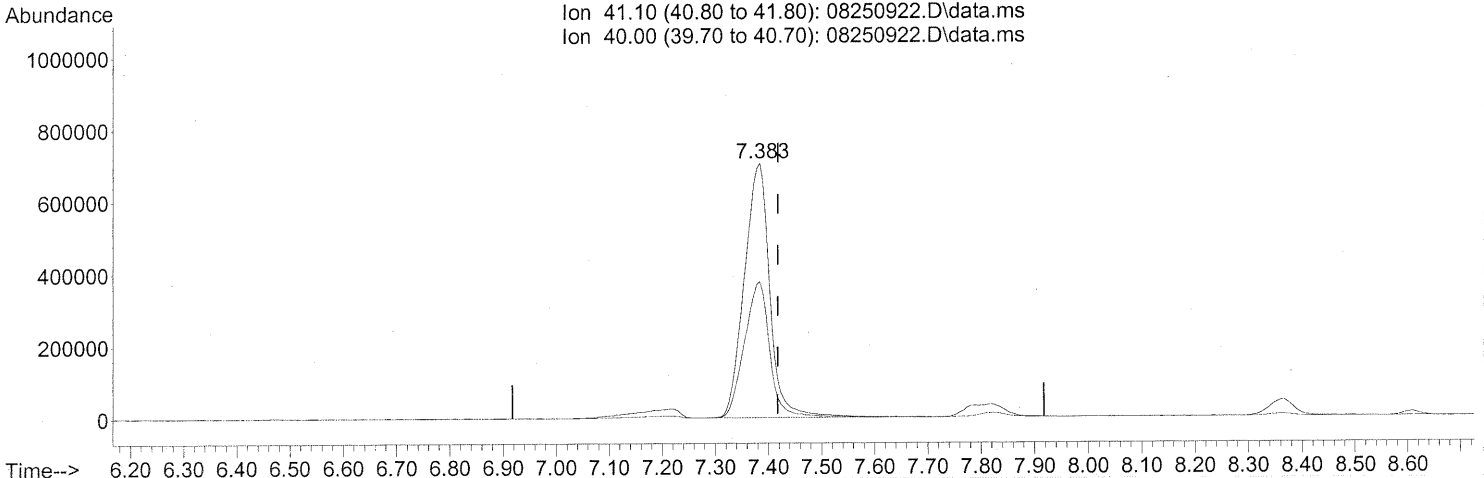
response 1375

Ion	Exp%	Act%
54.10	100	100
39.10	106.70	147.05#
53.00	69.50	63.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



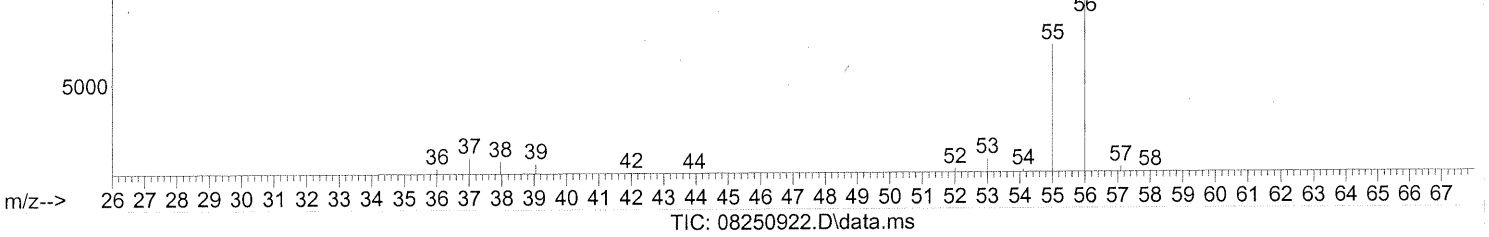
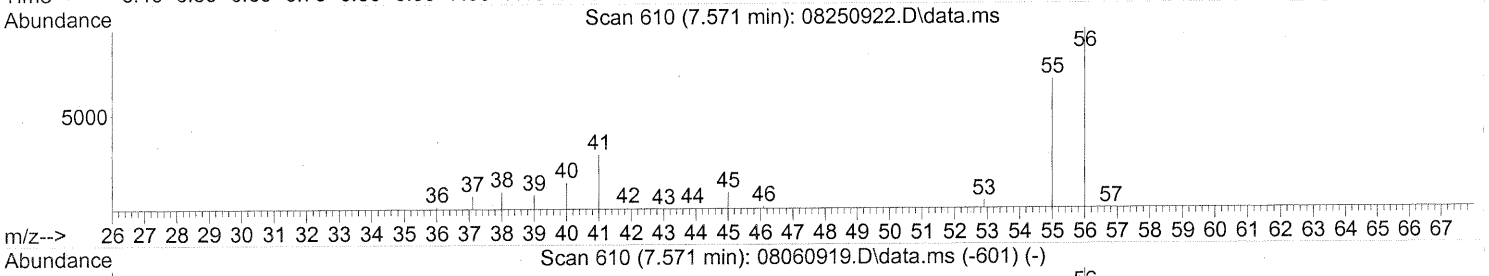
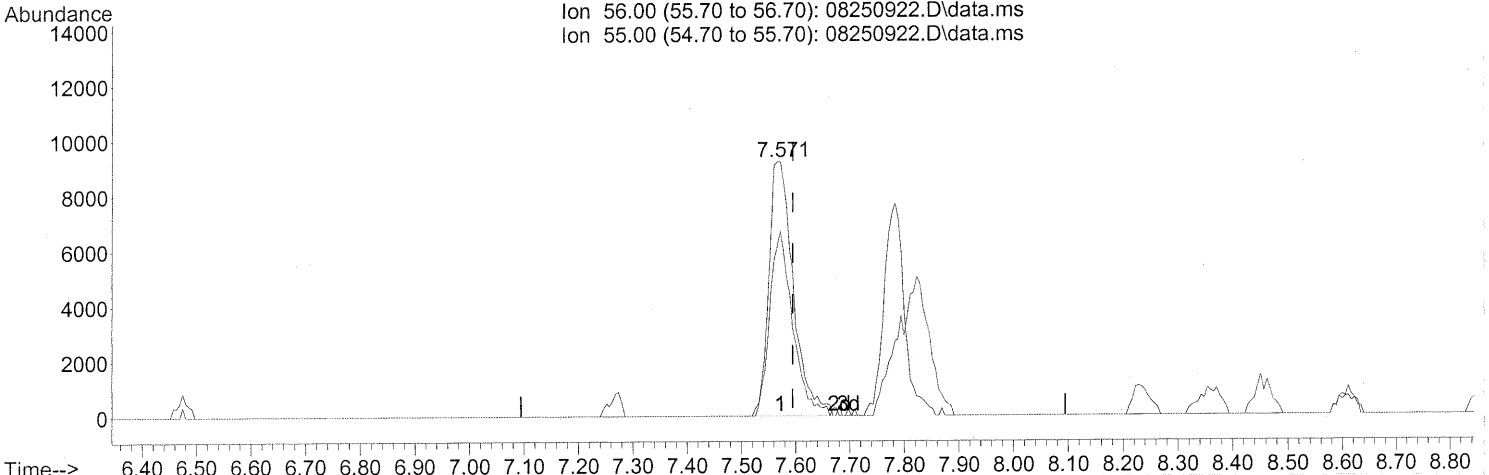
(11) Acetonitrile (T)
 7.383min (-0.034) 76.53ng
 response 2345822

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



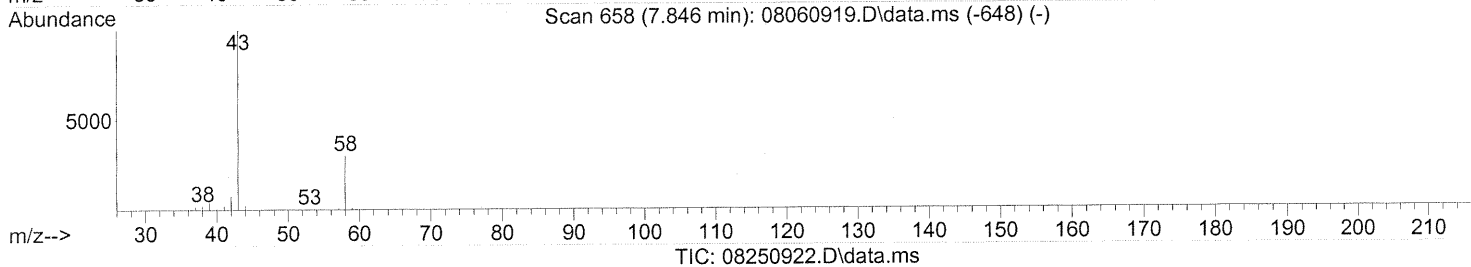
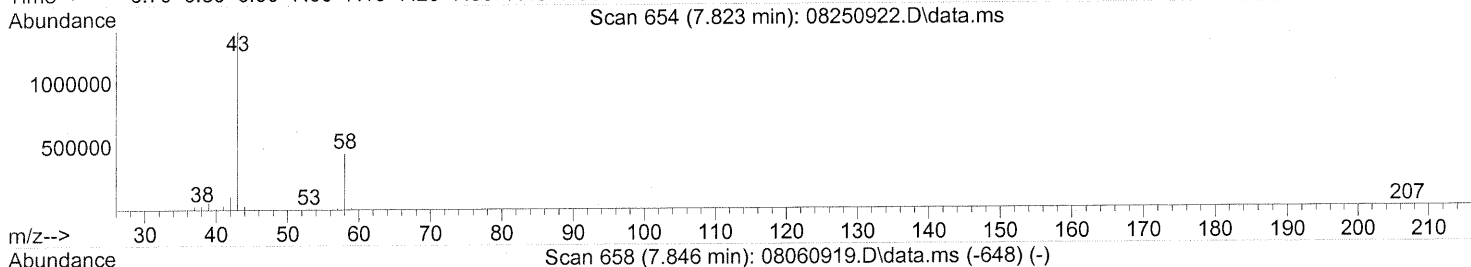
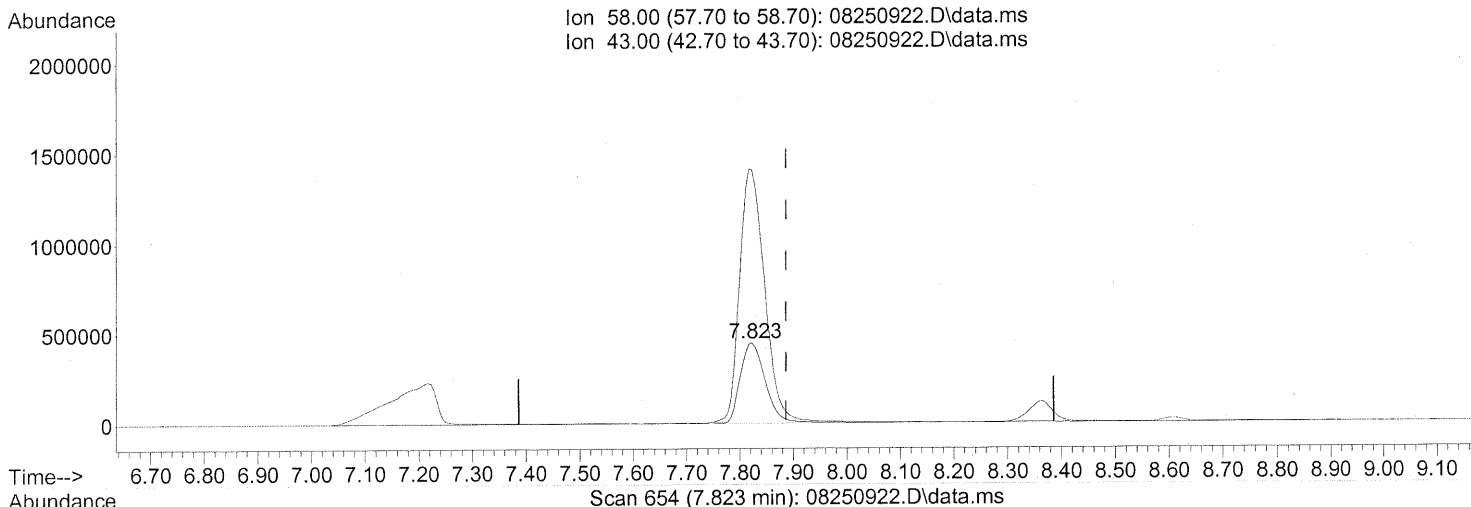
(12) Acrolein (T)
7.571min (-0.023) 3.63ng
response 28884

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.823min (-0.063) 146.60ng

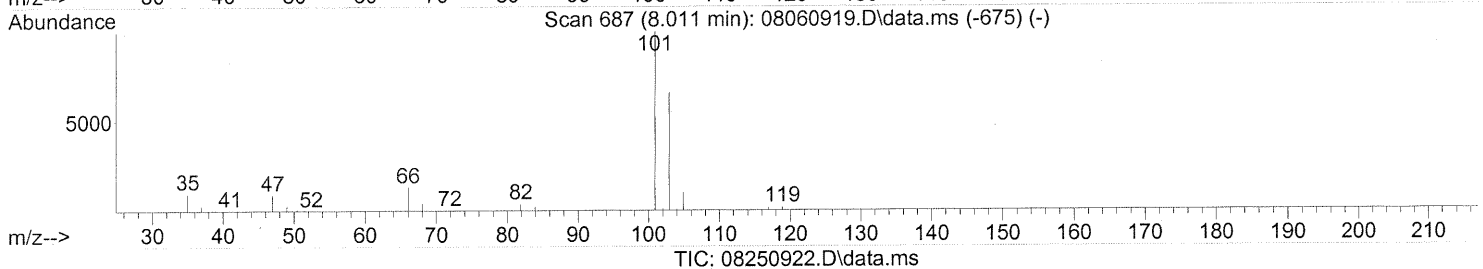
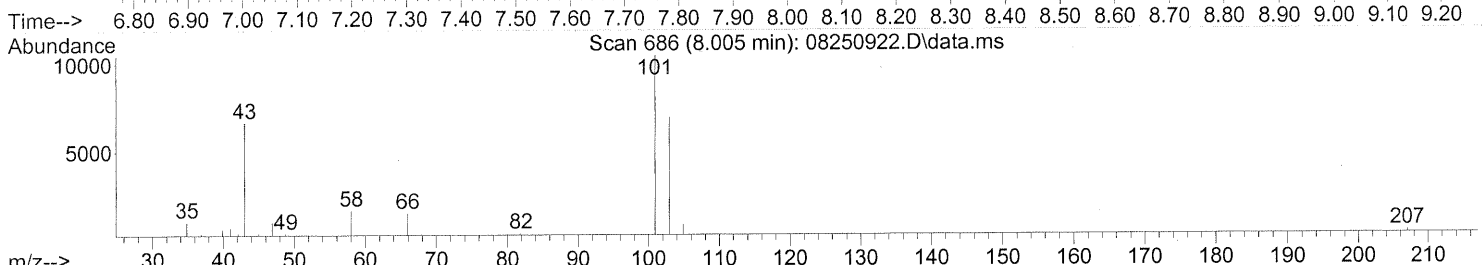
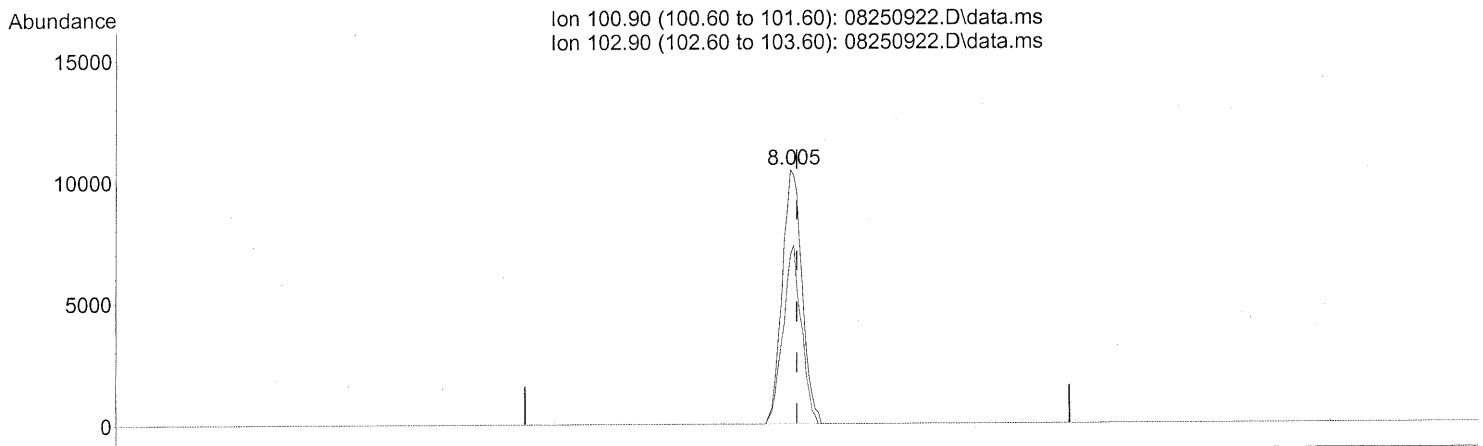
response 1447812

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	322.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.005min (-0.011) 1.09ng

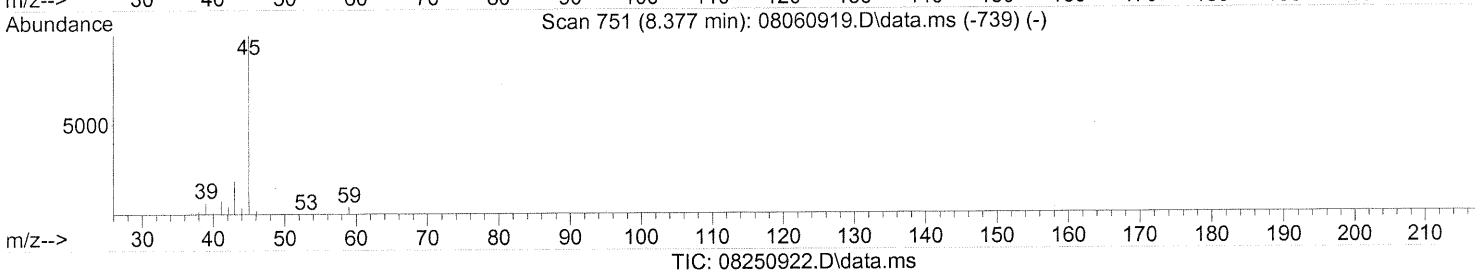
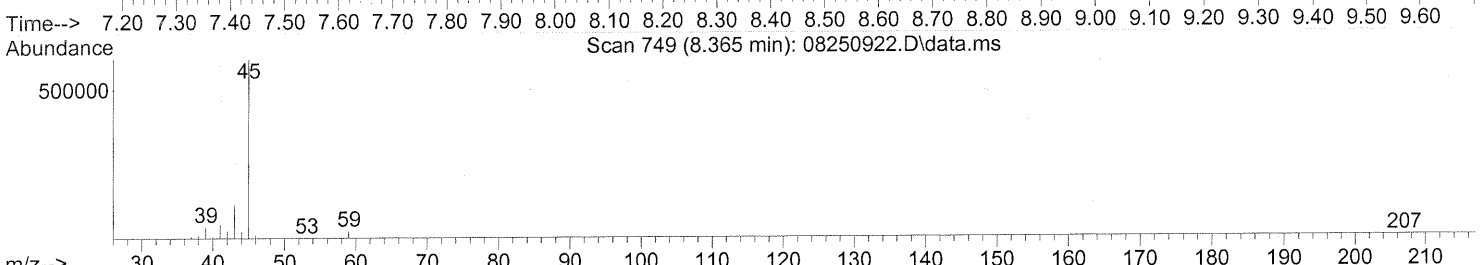
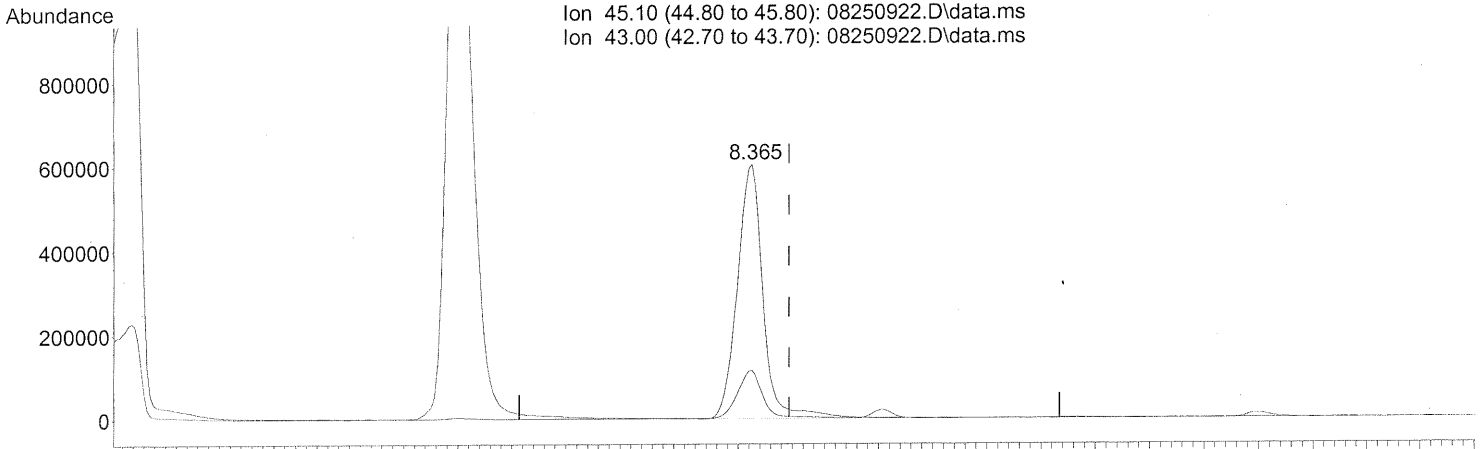
response 26482

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.365min (-0.069) 51.84ng

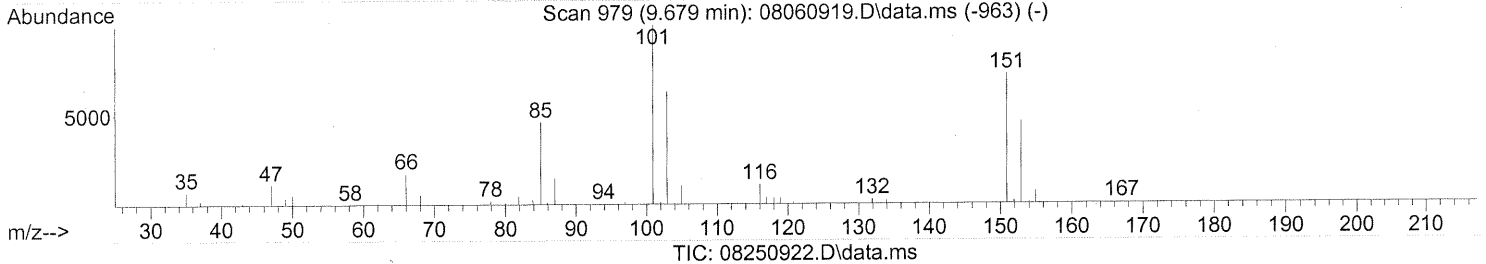
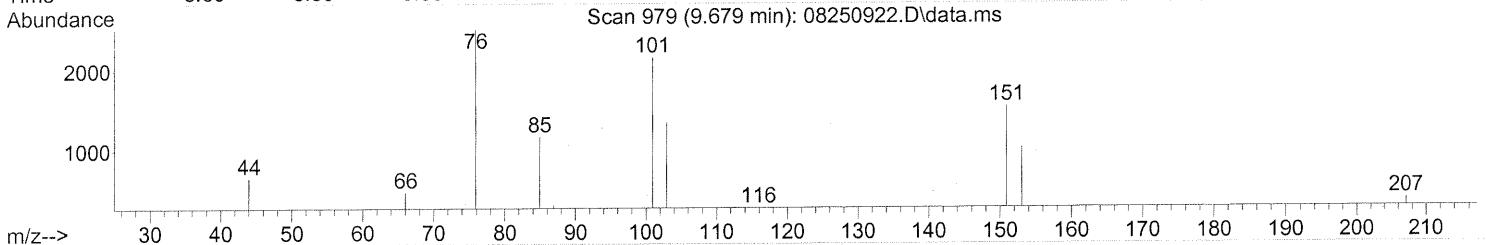
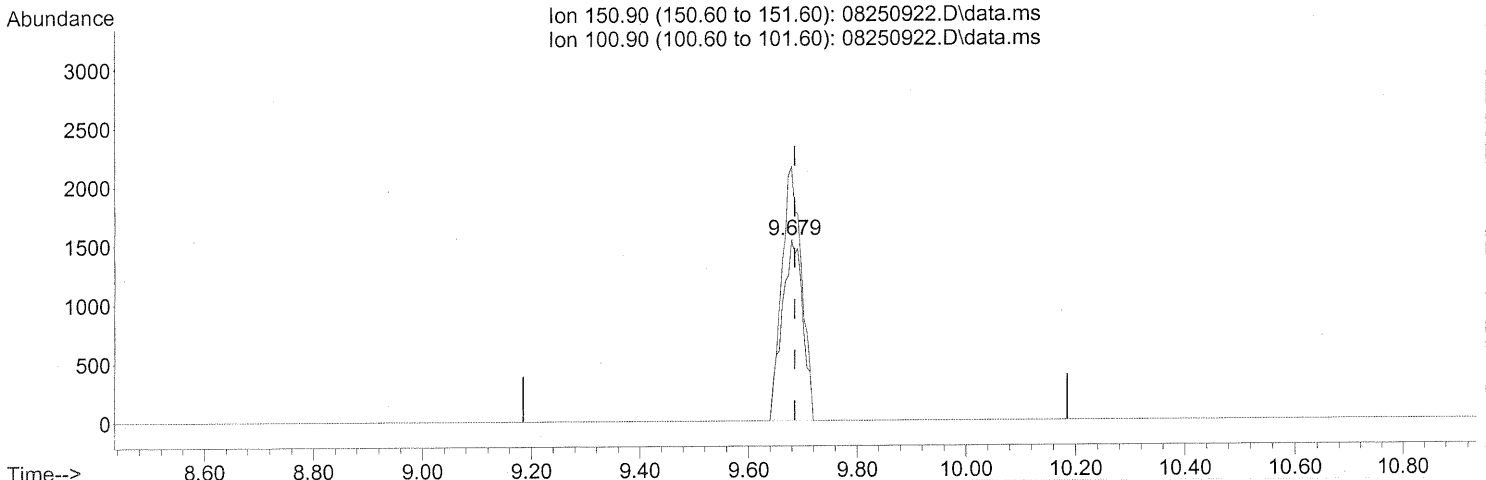
response 2011752

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.46ng

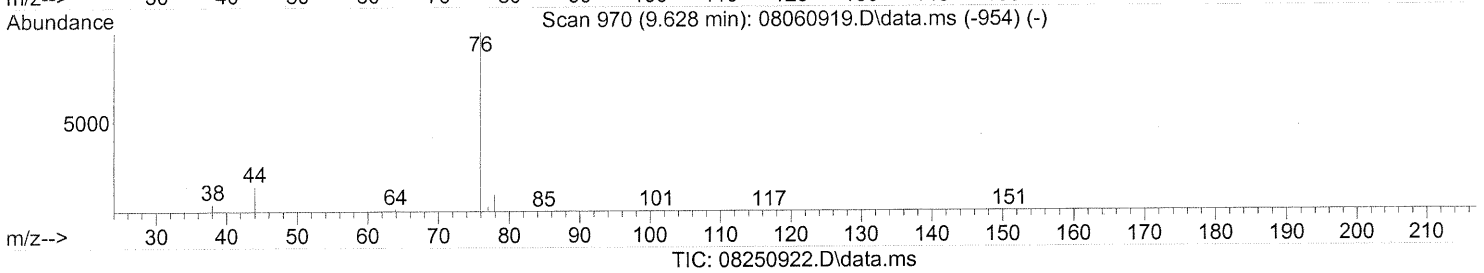
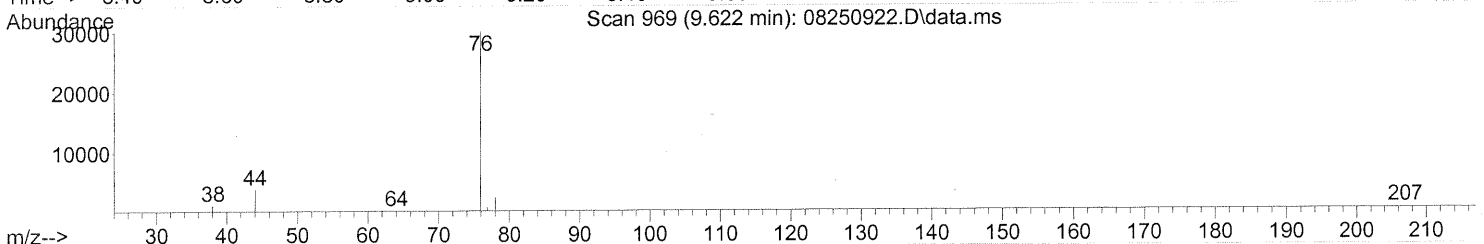
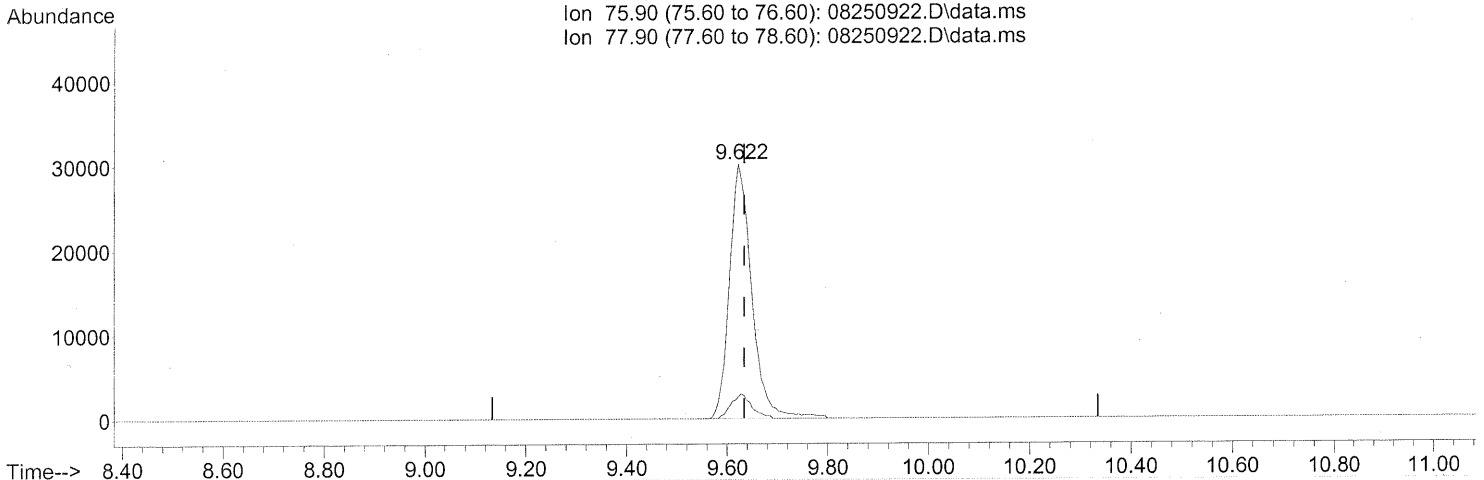
response 4109

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	132.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250922.D\data.ms

(22) Carbon Disulfide (T)

9.622min (-0.011) 1.98ng

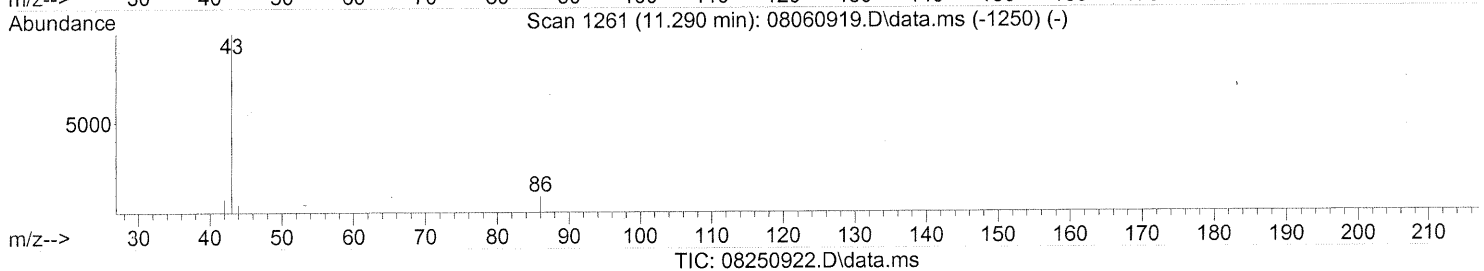
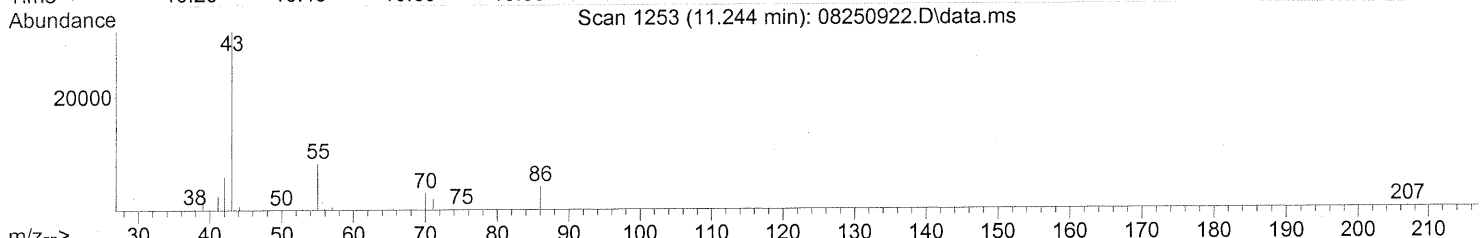
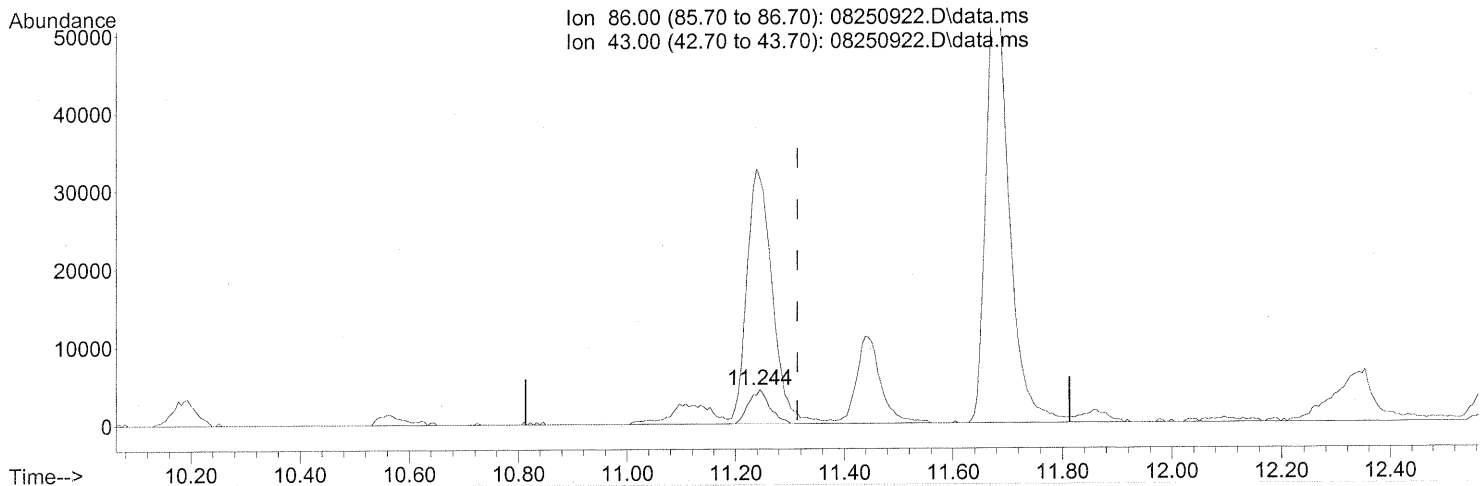
response 92418

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.244min (-0.069) 5.75ng

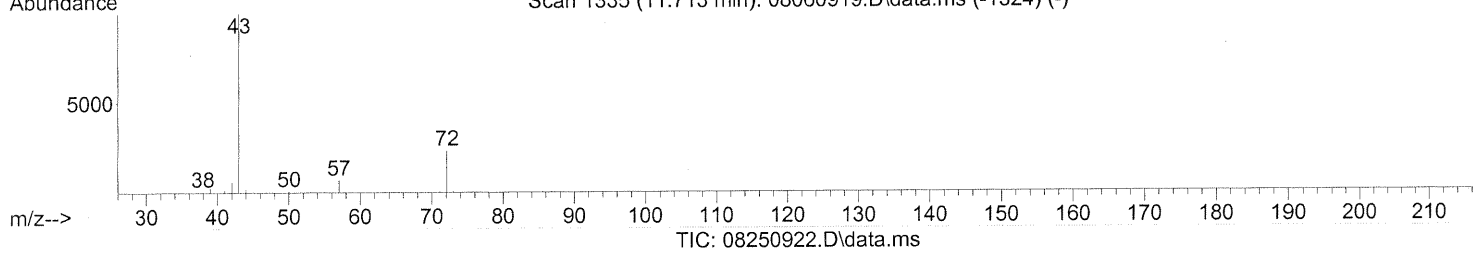
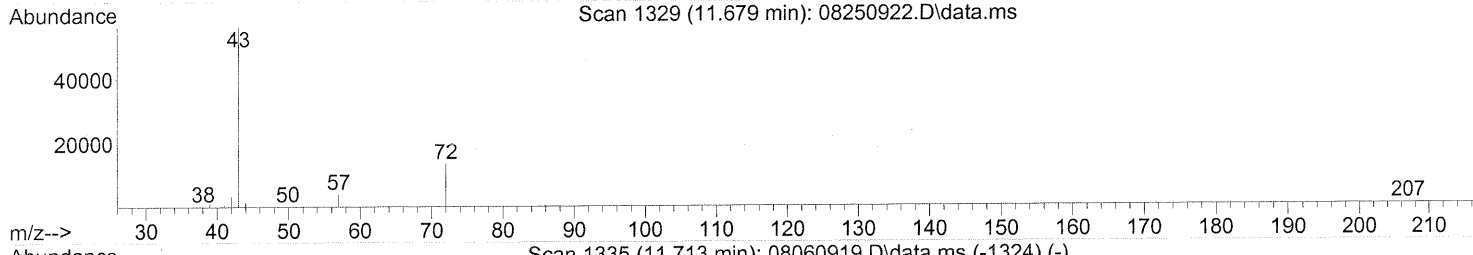
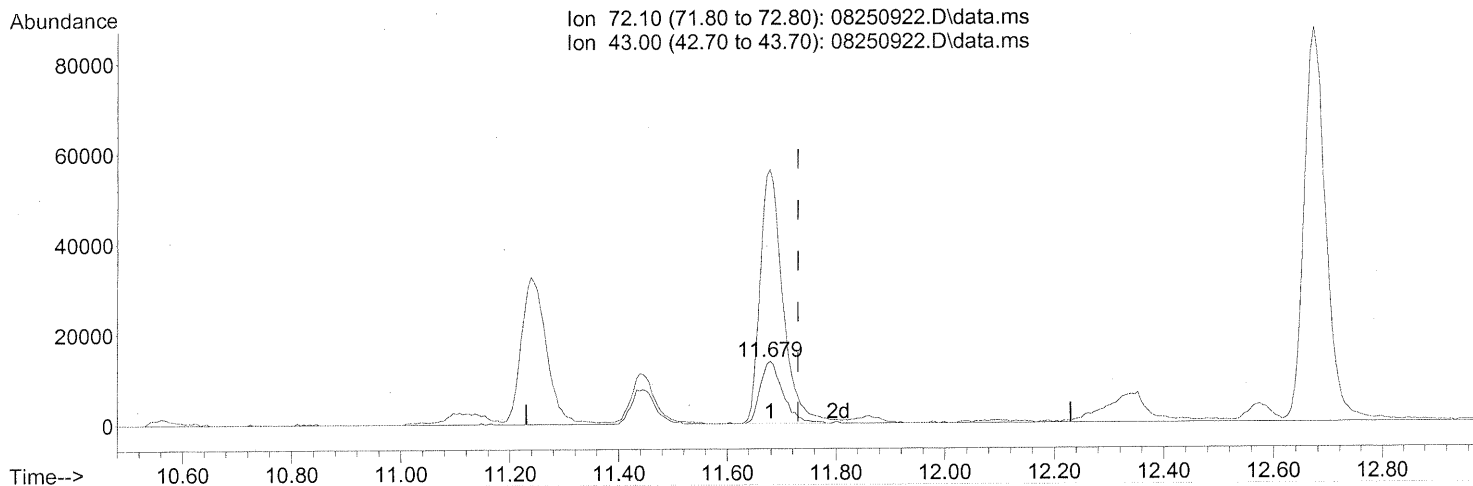
response 11563

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	910.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.679min (-0.051) 4.45ng

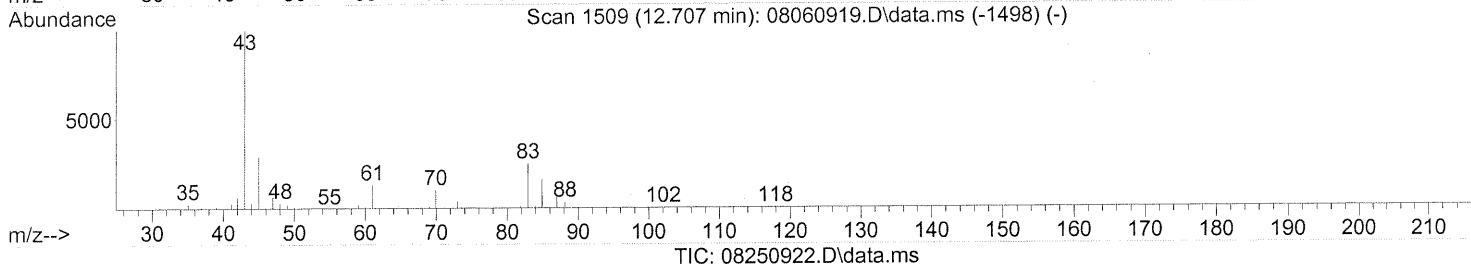
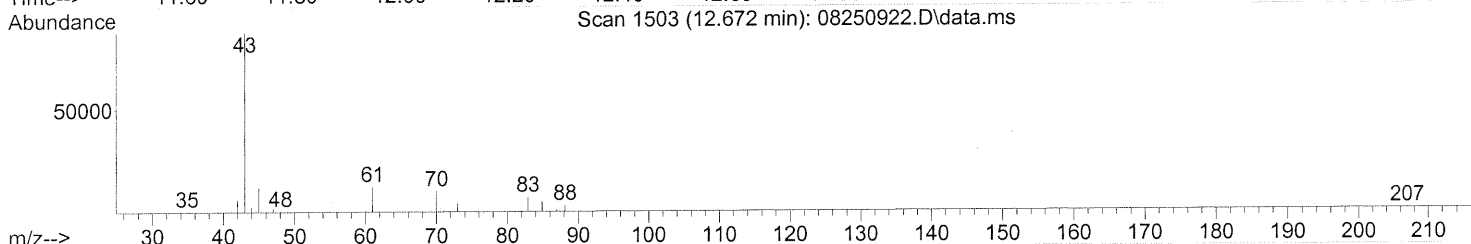
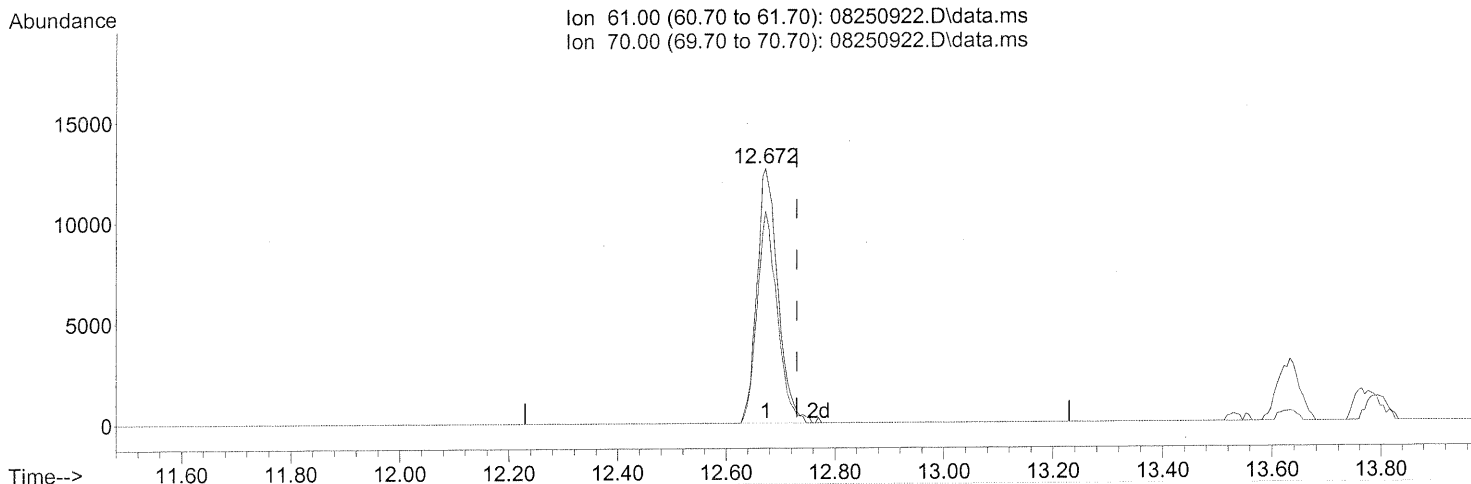
response 39706

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	414.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.672min (-0.057) 7.31ng

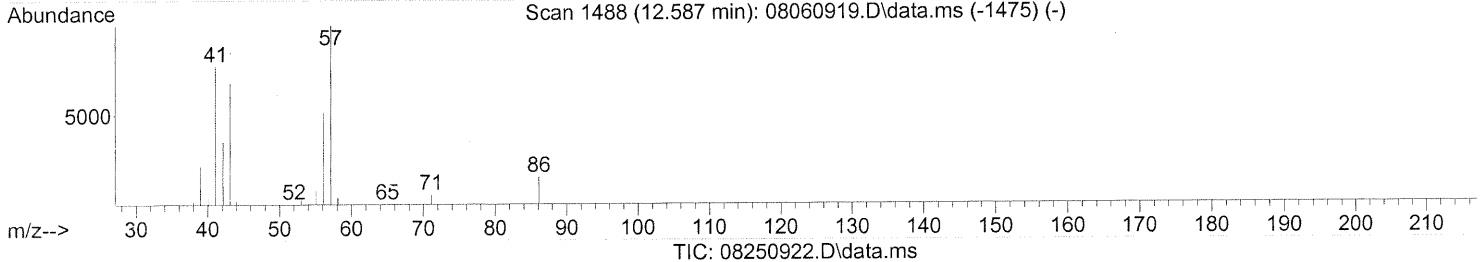
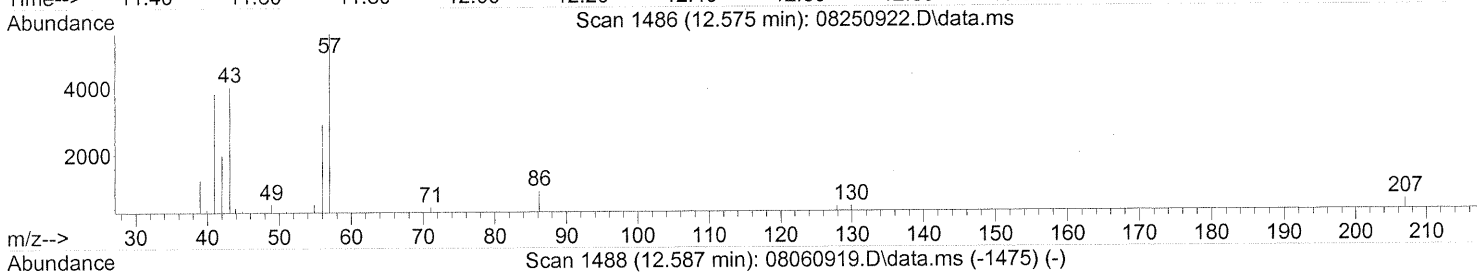
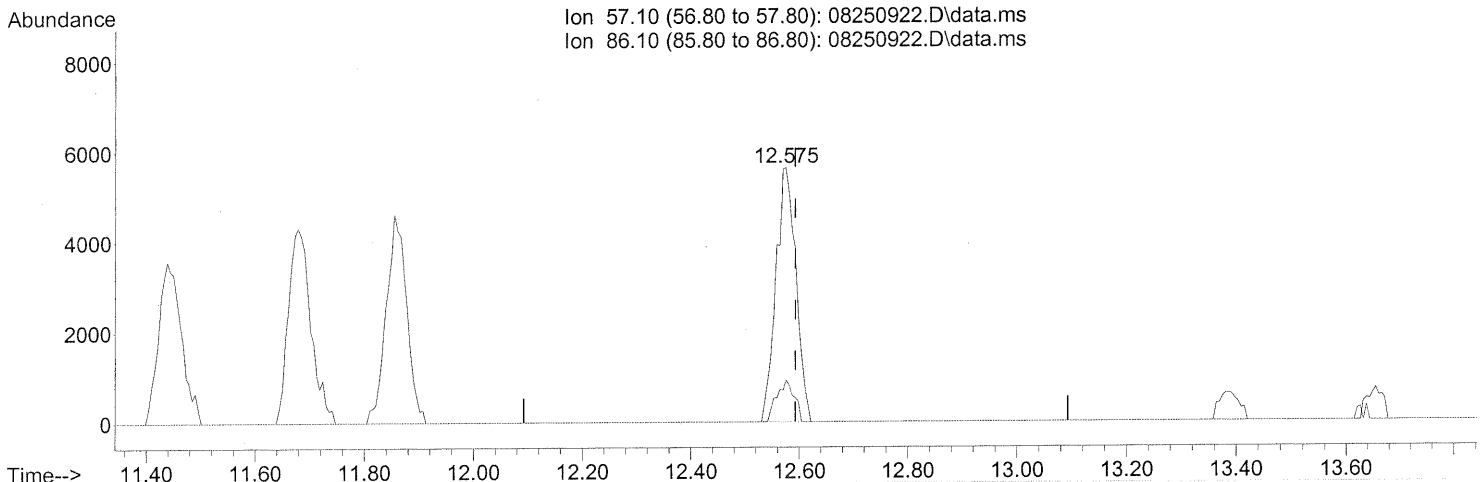
response 33944

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	79.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(31) n-Hexane (T)

12.575min (-0.017) 0.61ng

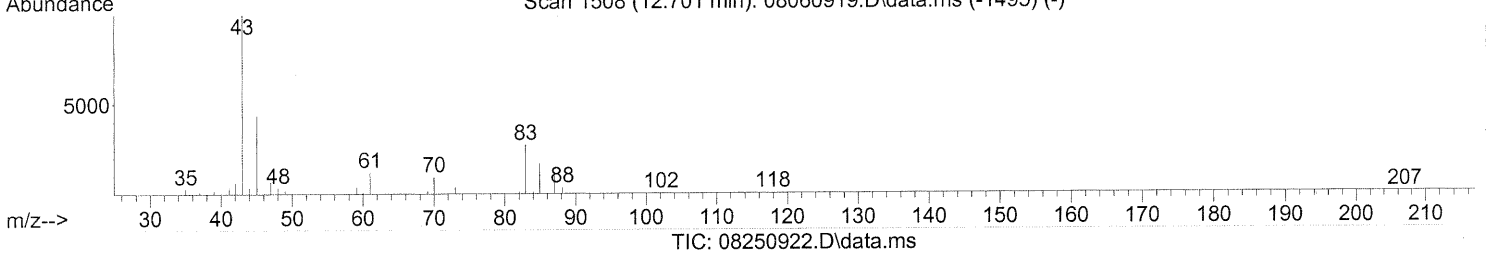
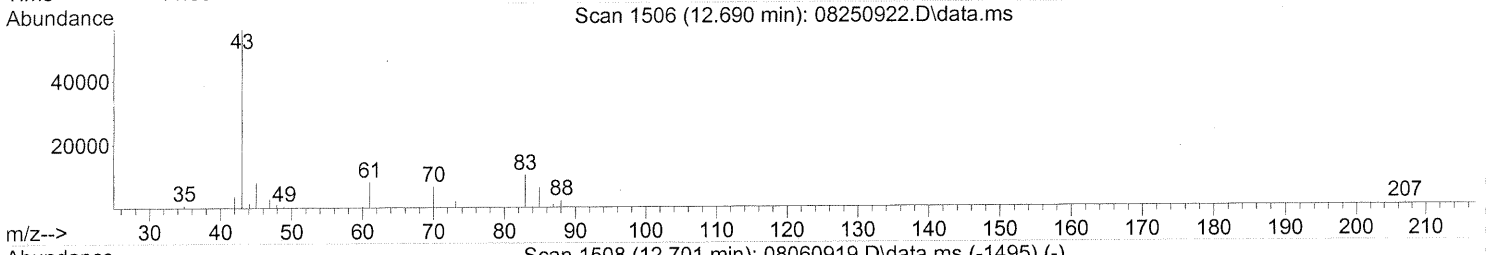
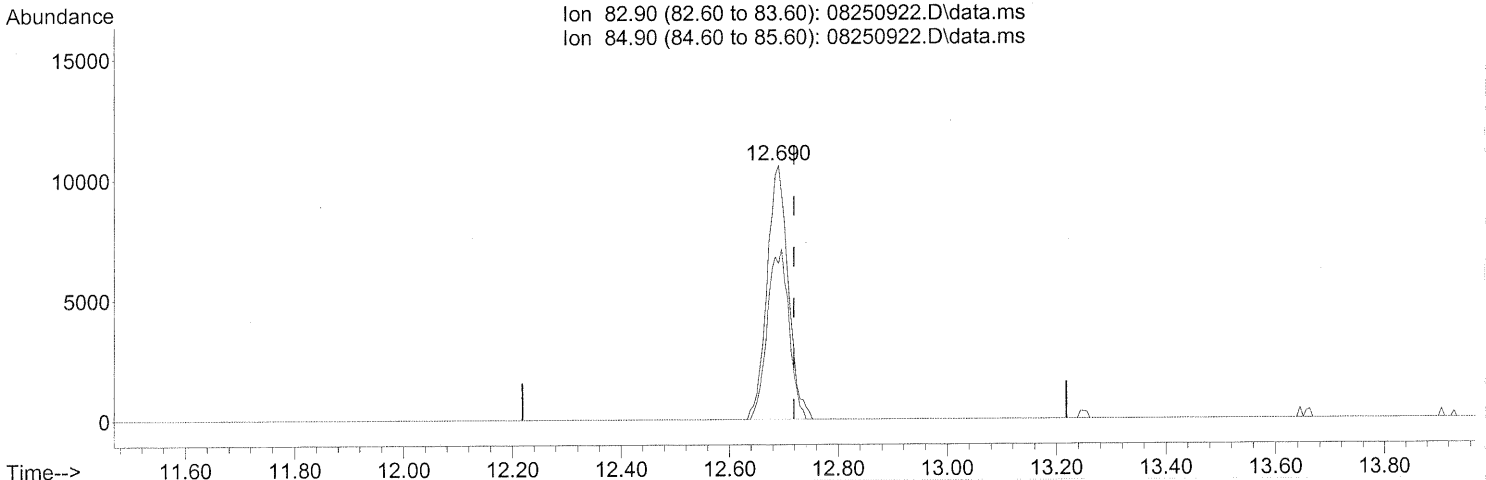
response 14517

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	14.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(32) Chloroform (T)

12.690min (-0.029) 1.37ng

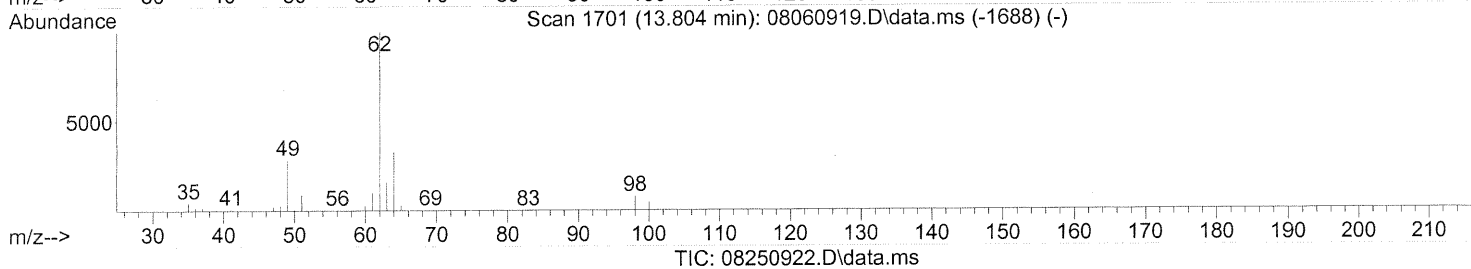
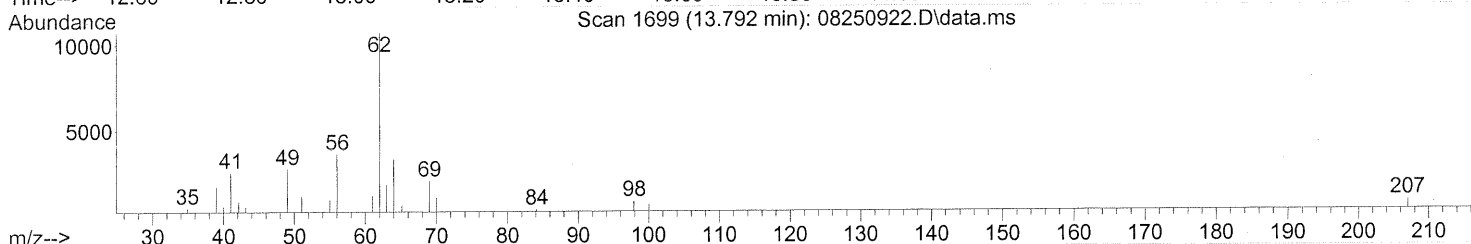
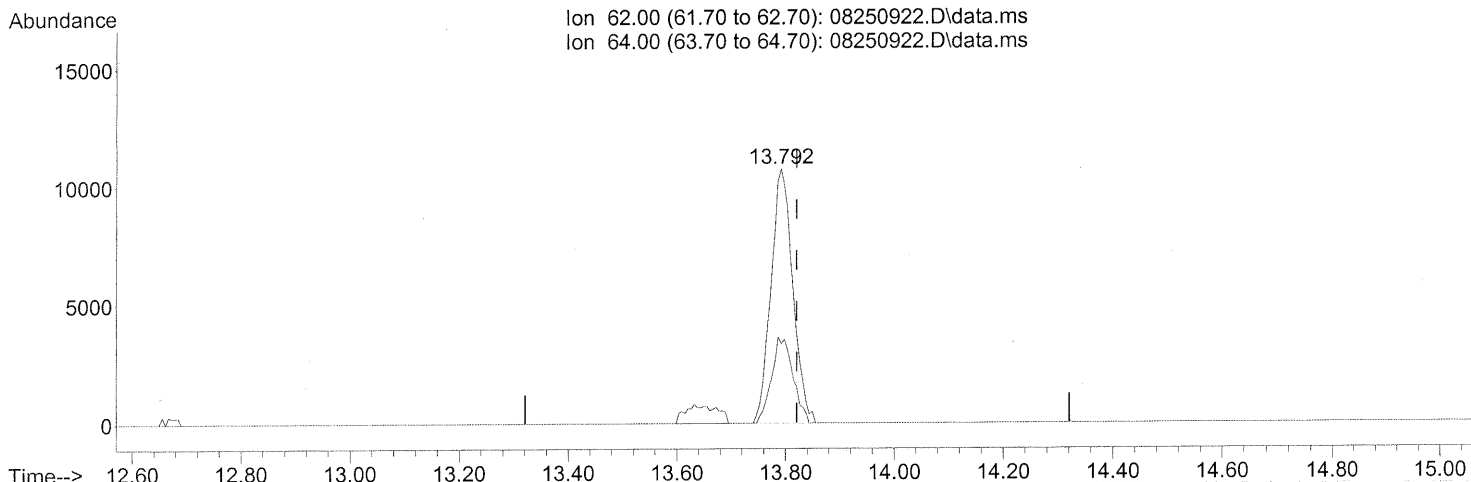
response 28564

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	68.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.57ng

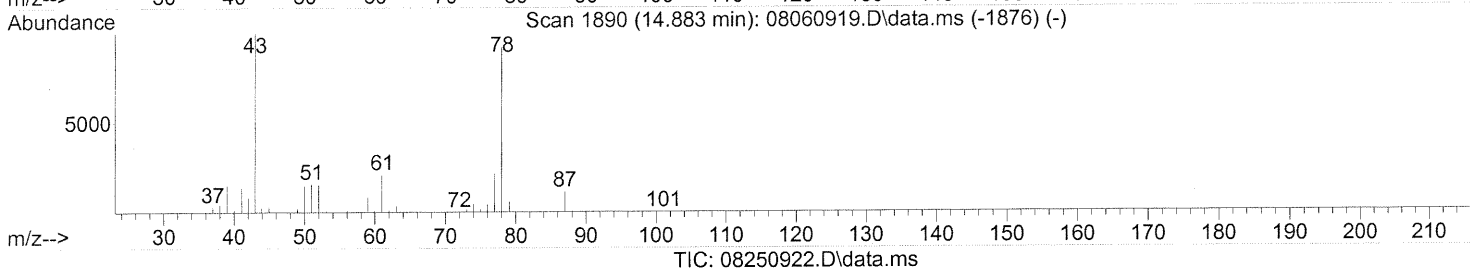
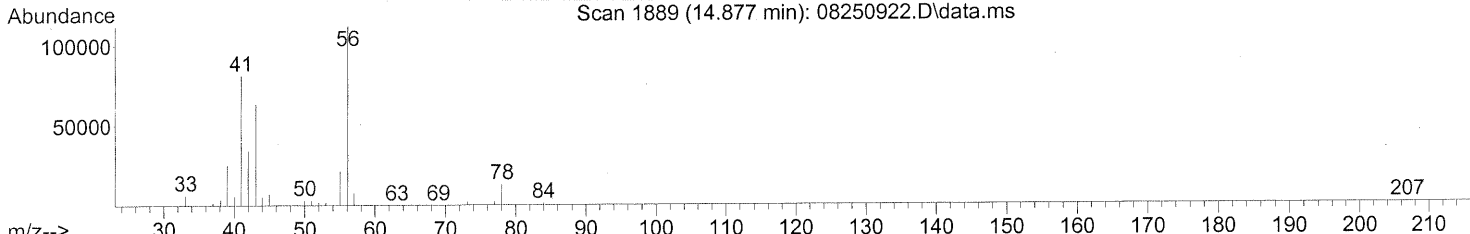
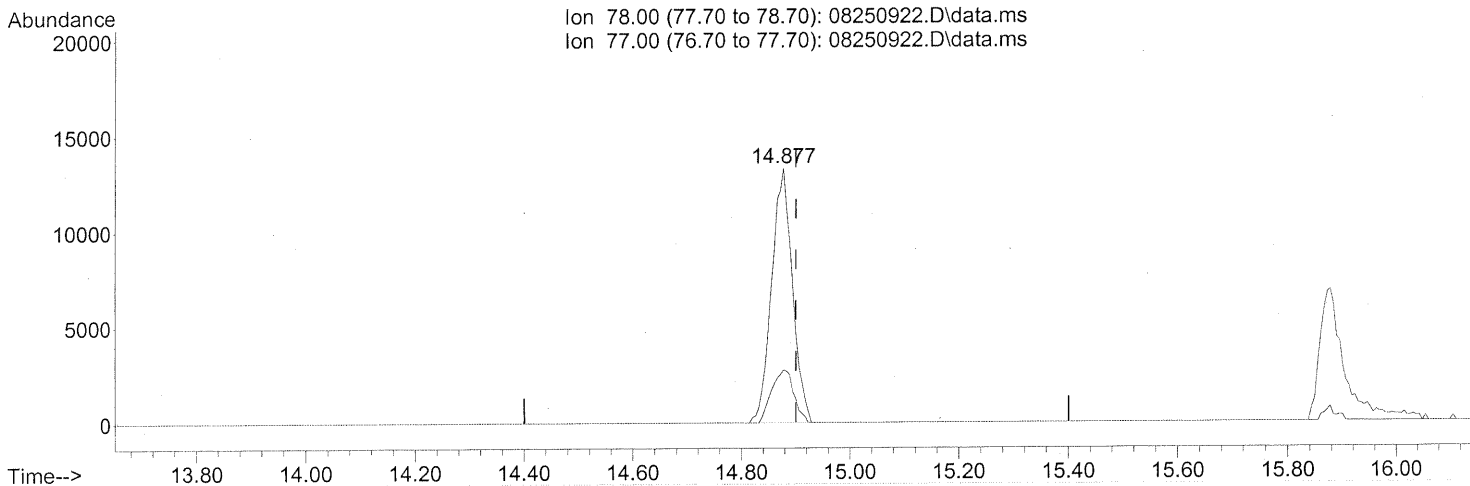
response 30051

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	33.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.877min (-0.023) 0.67ng

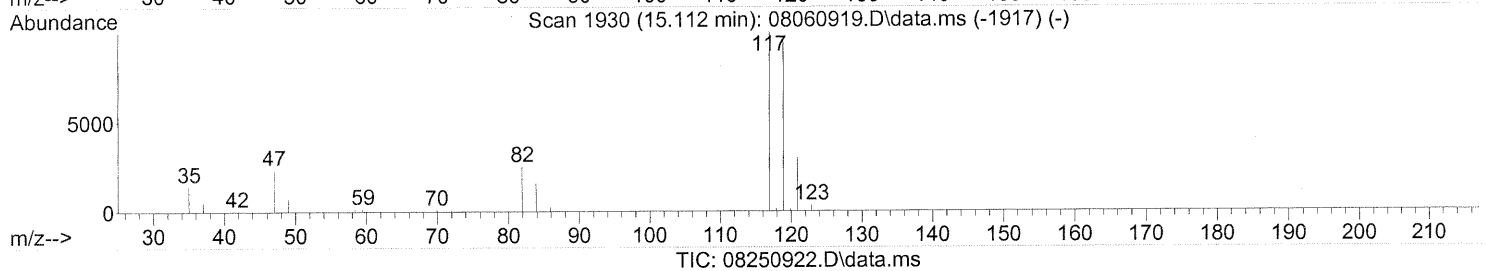
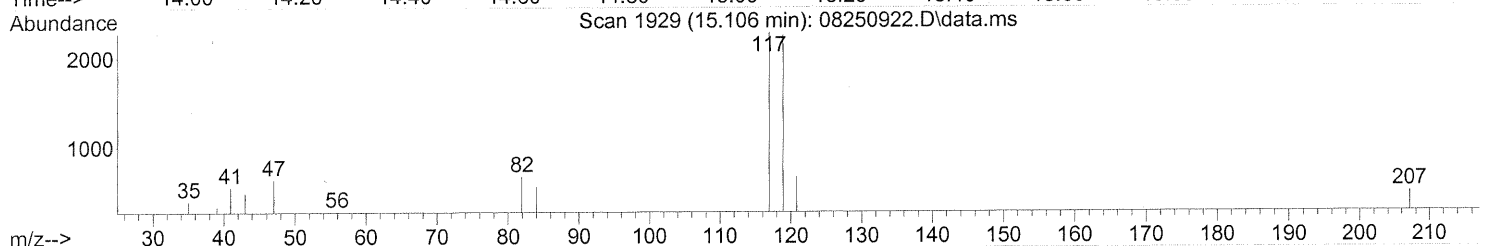
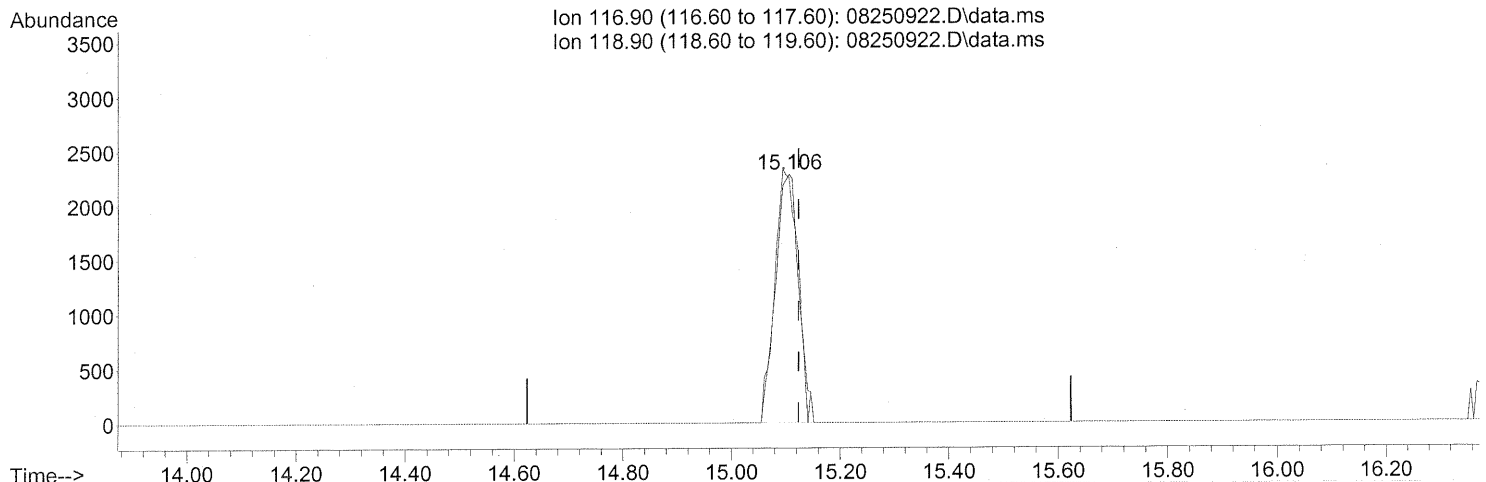
response 35387

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	22.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.106min (-0.017) 0.39ng

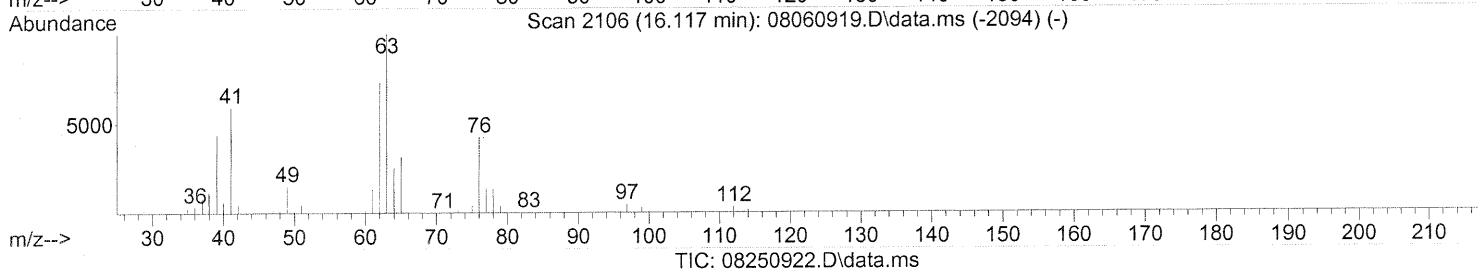
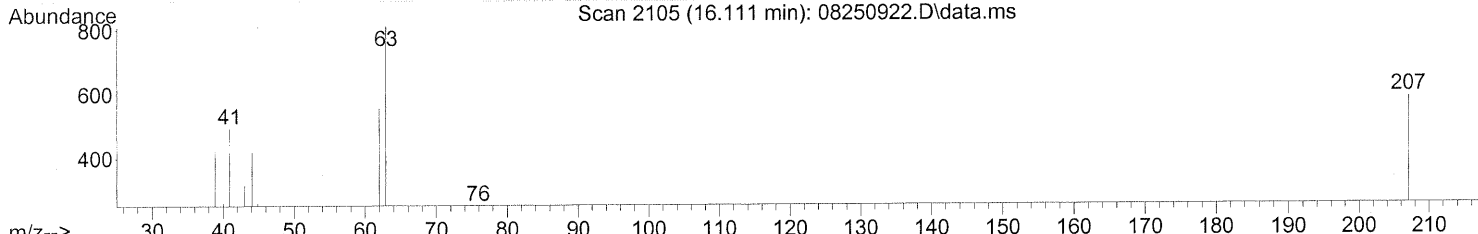
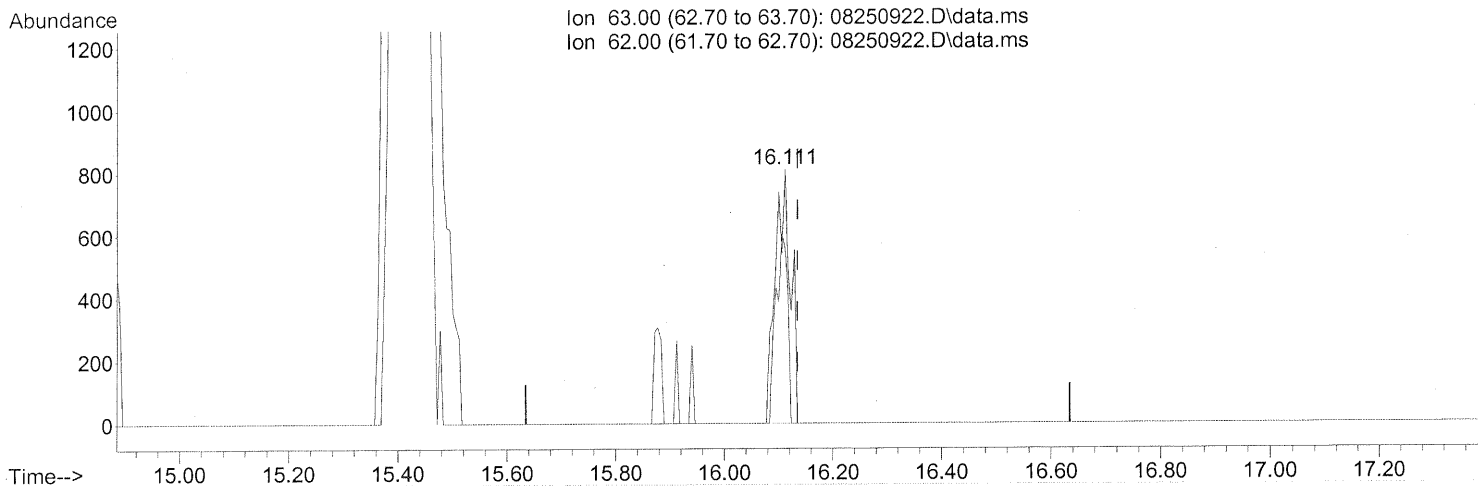
response 6682

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	104.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.111min (-0.023) 0.12ng

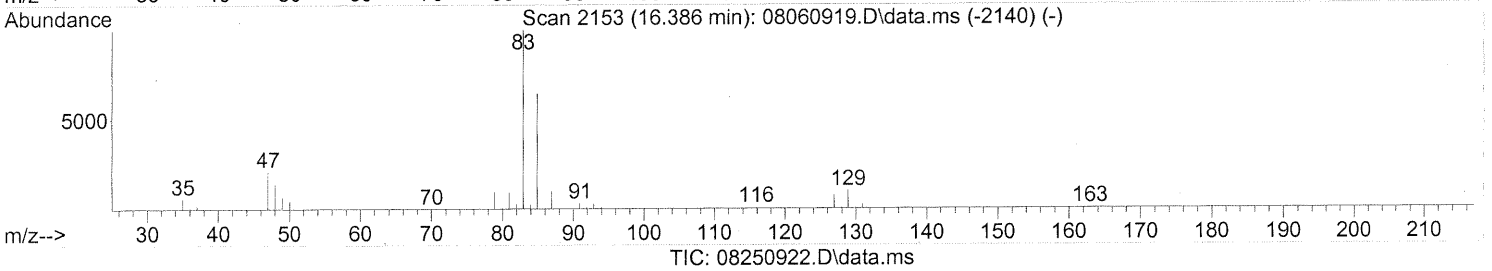
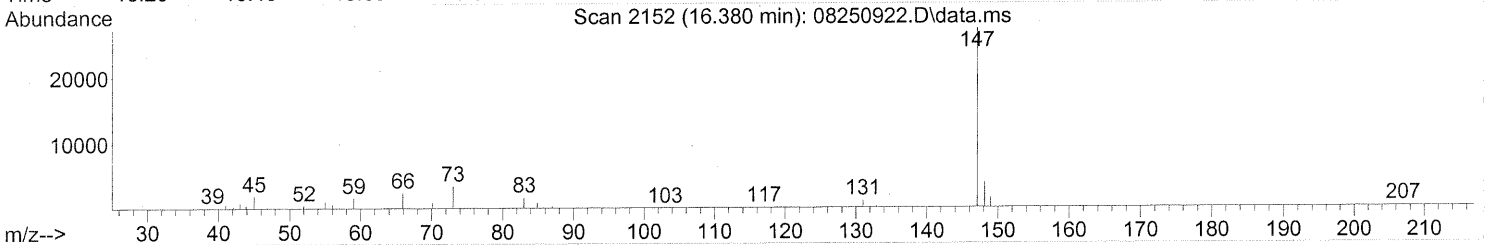
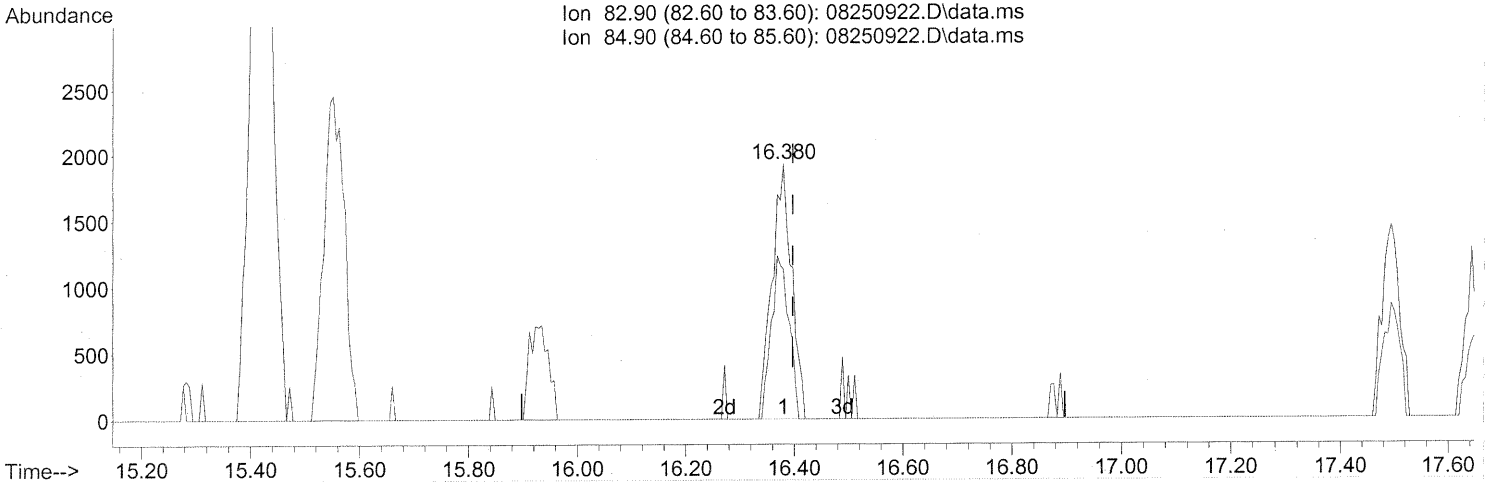
response 1578

Ion	Exp%	Act%
63.00	100	100
62.00	71.20	57.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.28ng

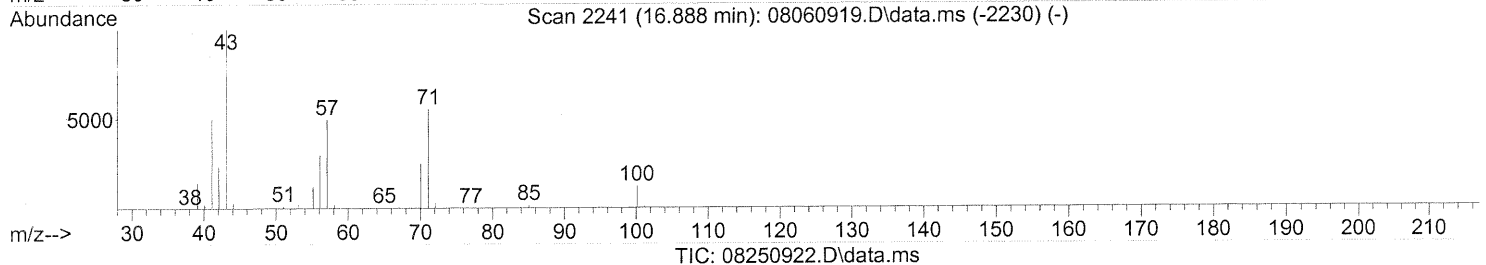
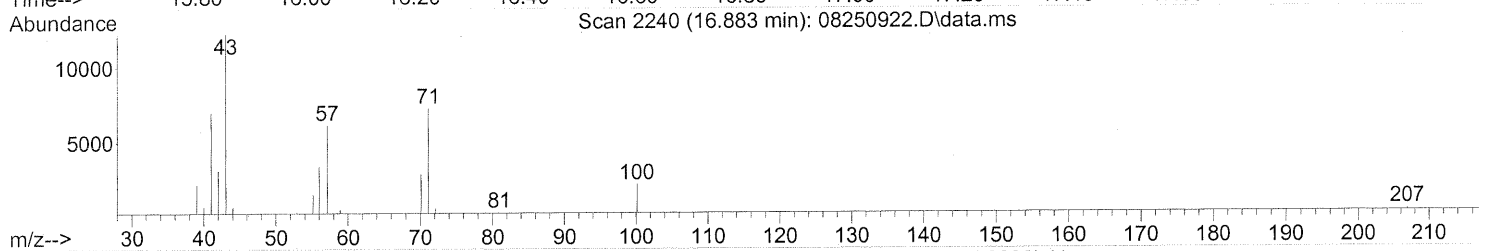
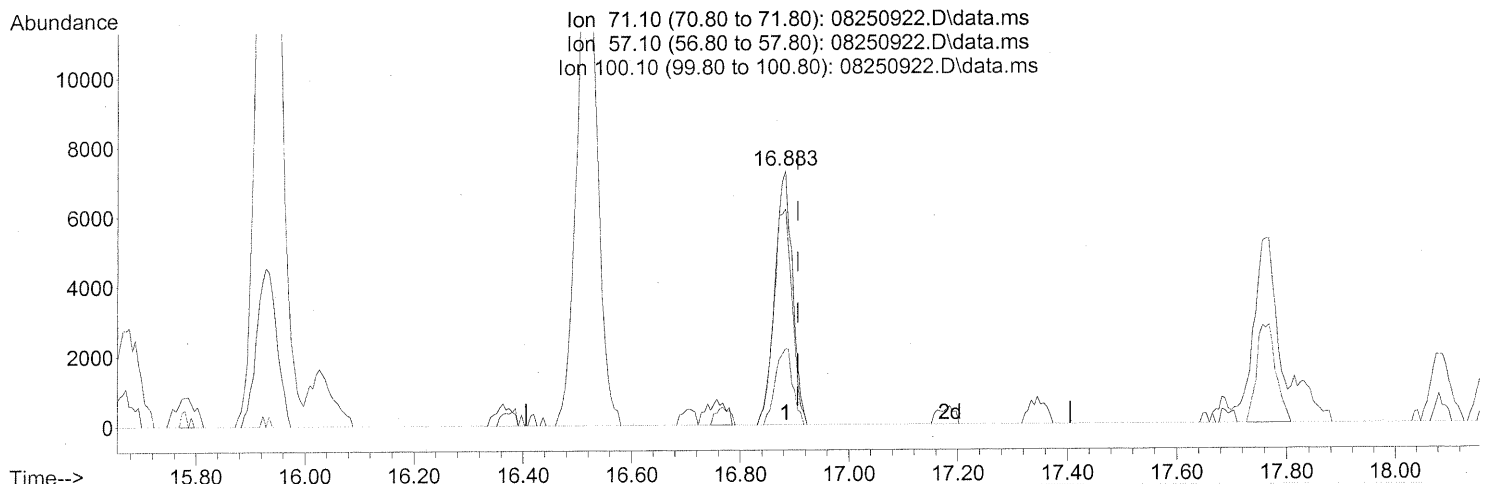
response 4849

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	57.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



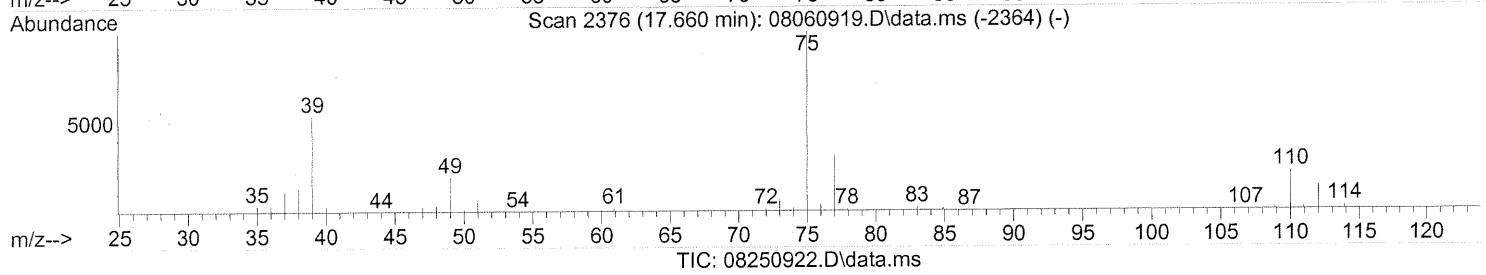
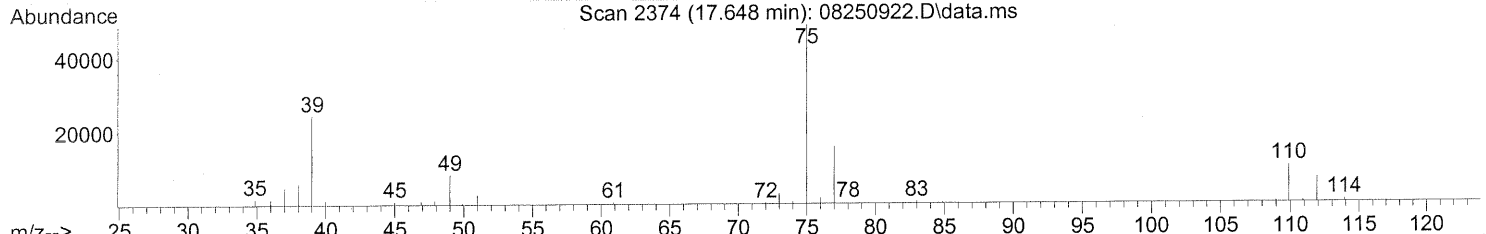
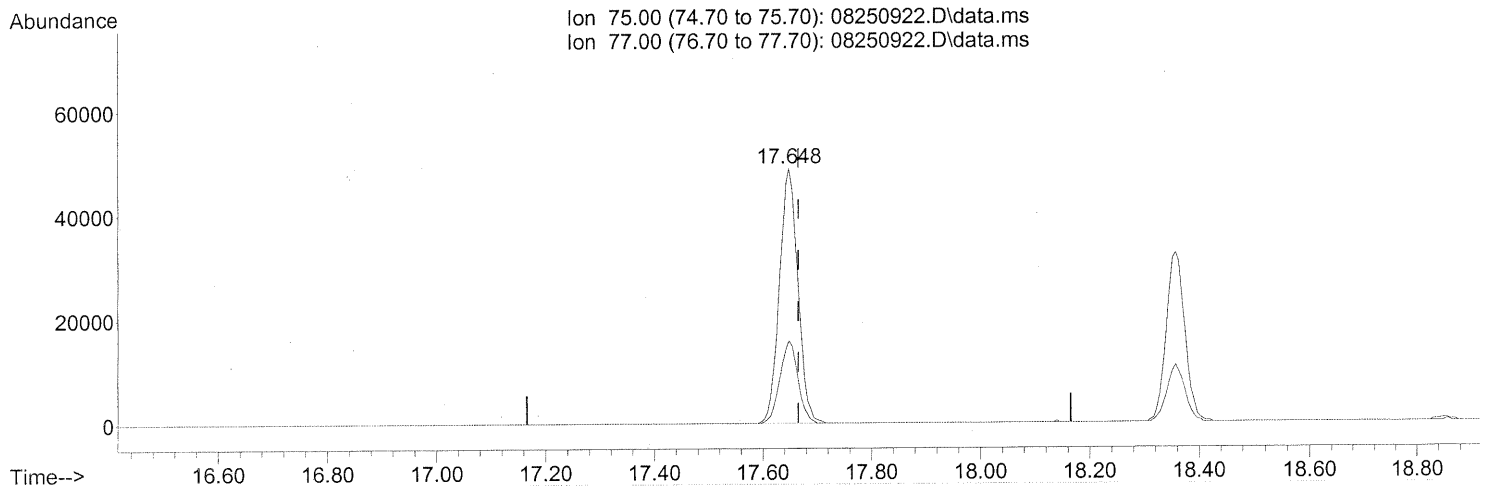
(51) n-Heptane (T)
 16.883min (-0.023) 1.16ng
 response 16519

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	88.16
100.10	26.40	29.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 5.21ng

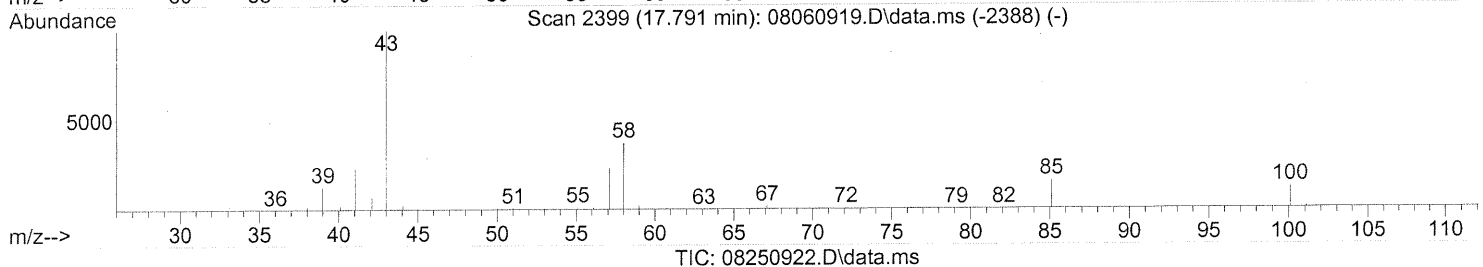
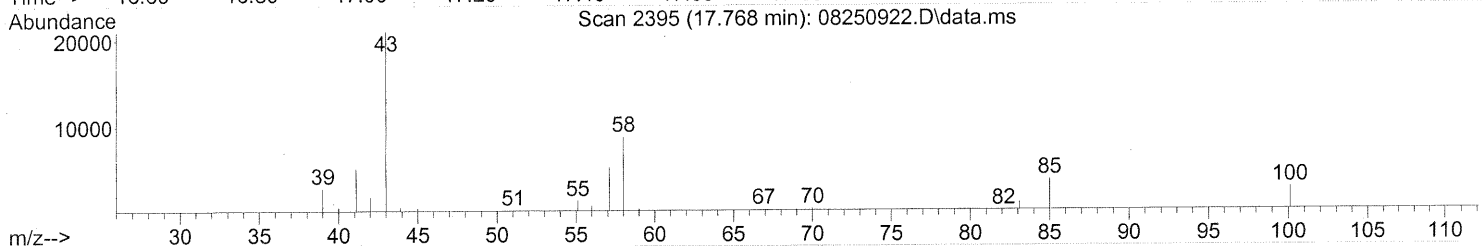
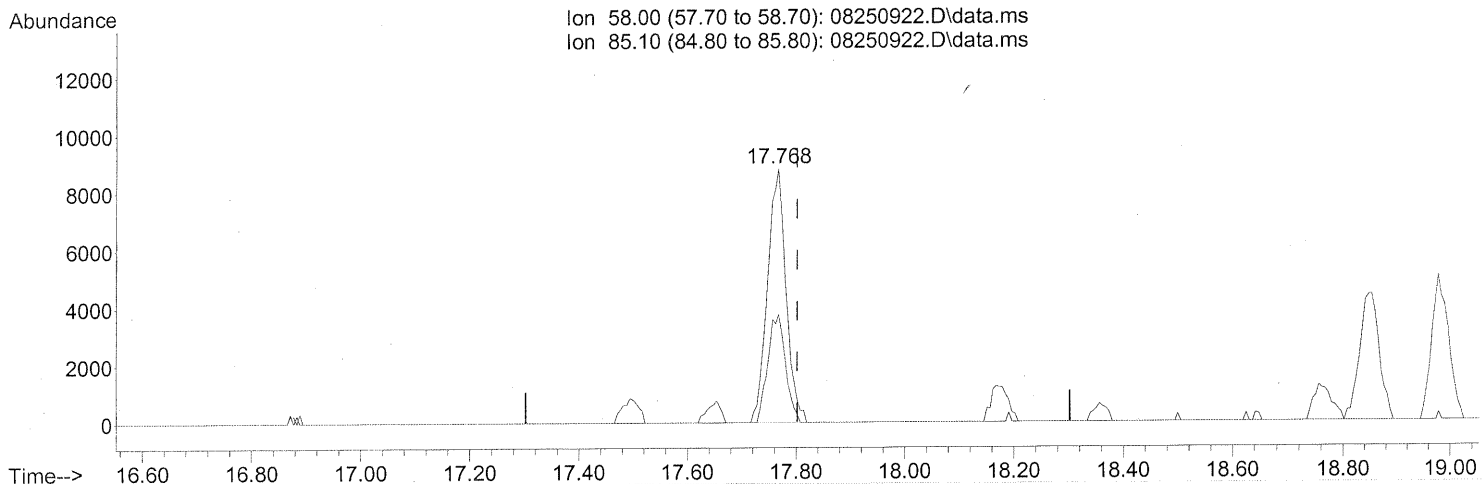
response 115070

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

17.768min (-0.034) 1.64ng

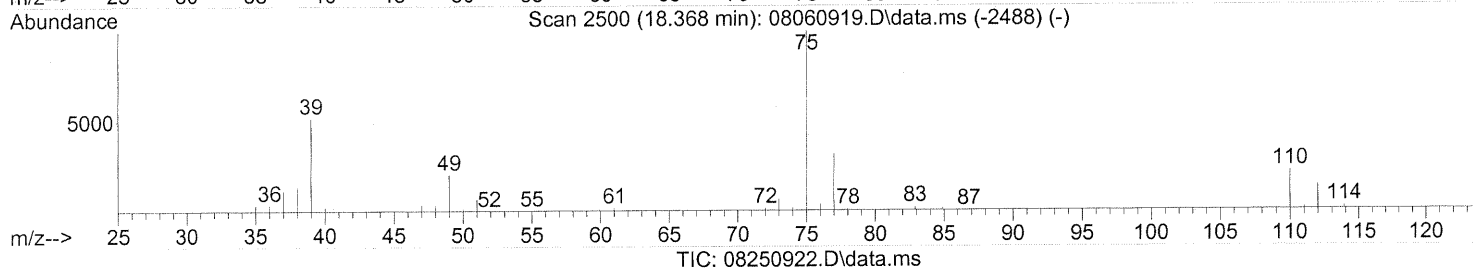
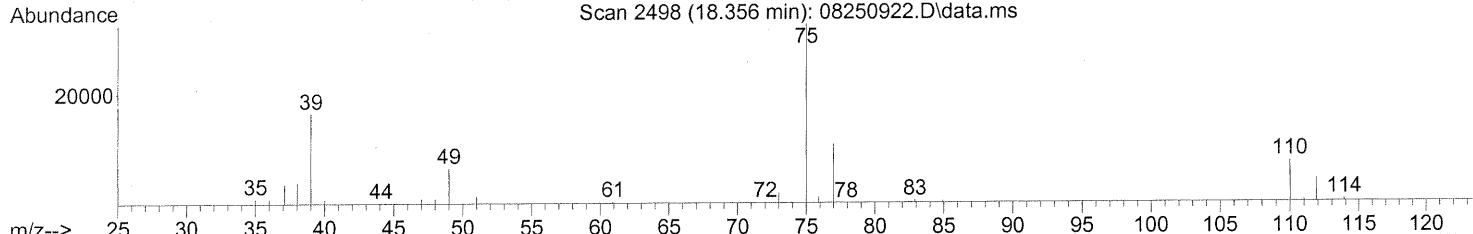
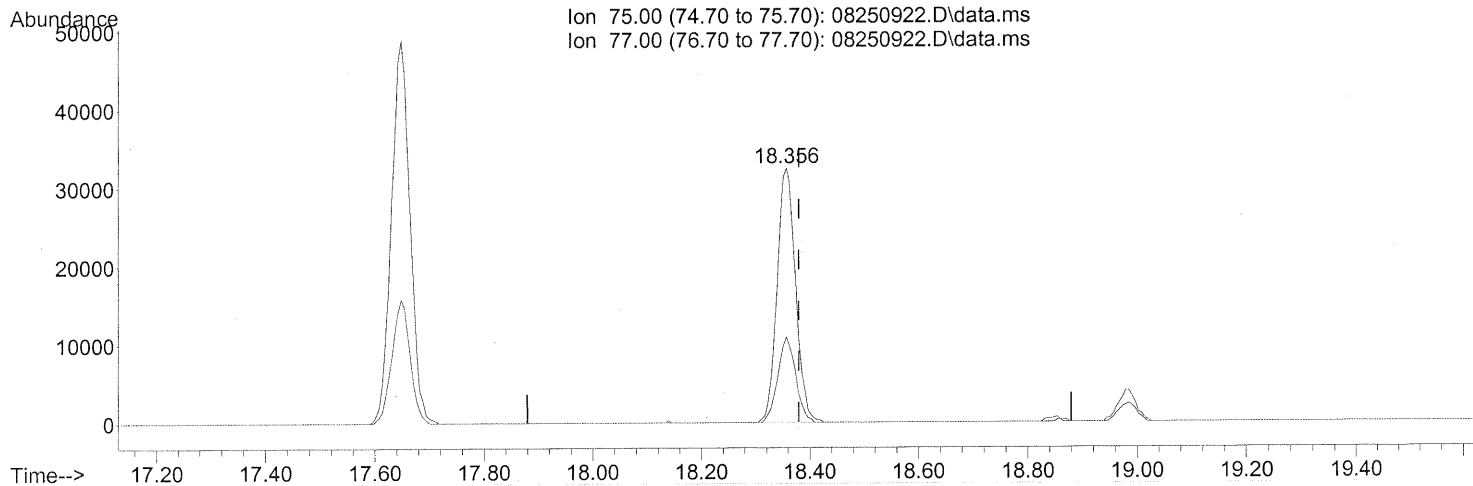
response 20936

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	40.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 3.66ng

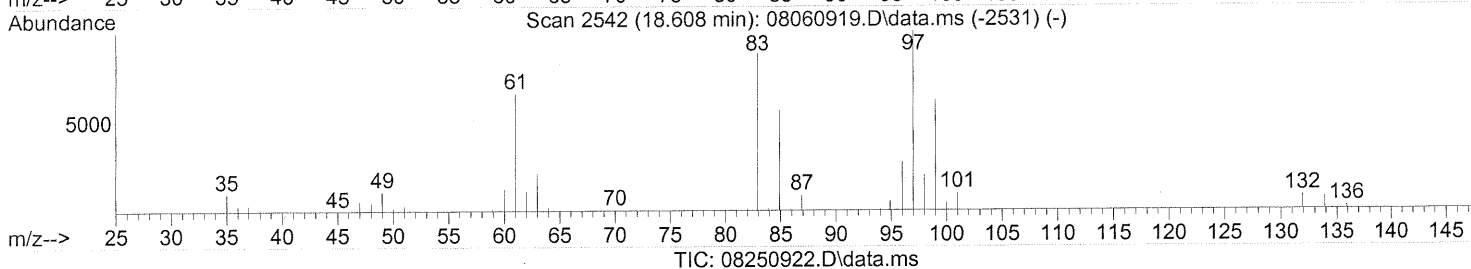
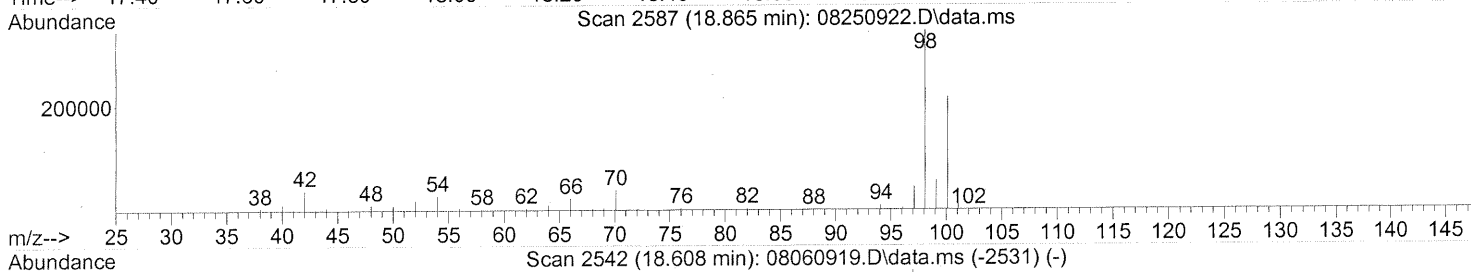
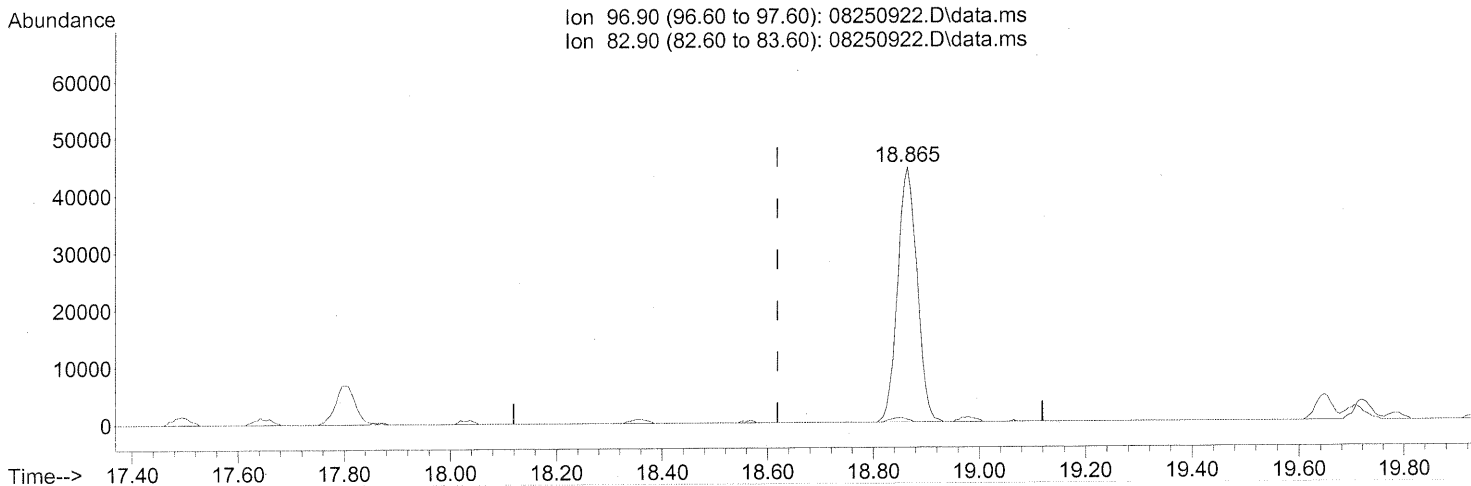
response 76812

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	32.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



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

18.865min (+0.246) 9.73ng

response 113421

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.40#
0.00	0.00	0.00
0.00	0.00	0.00

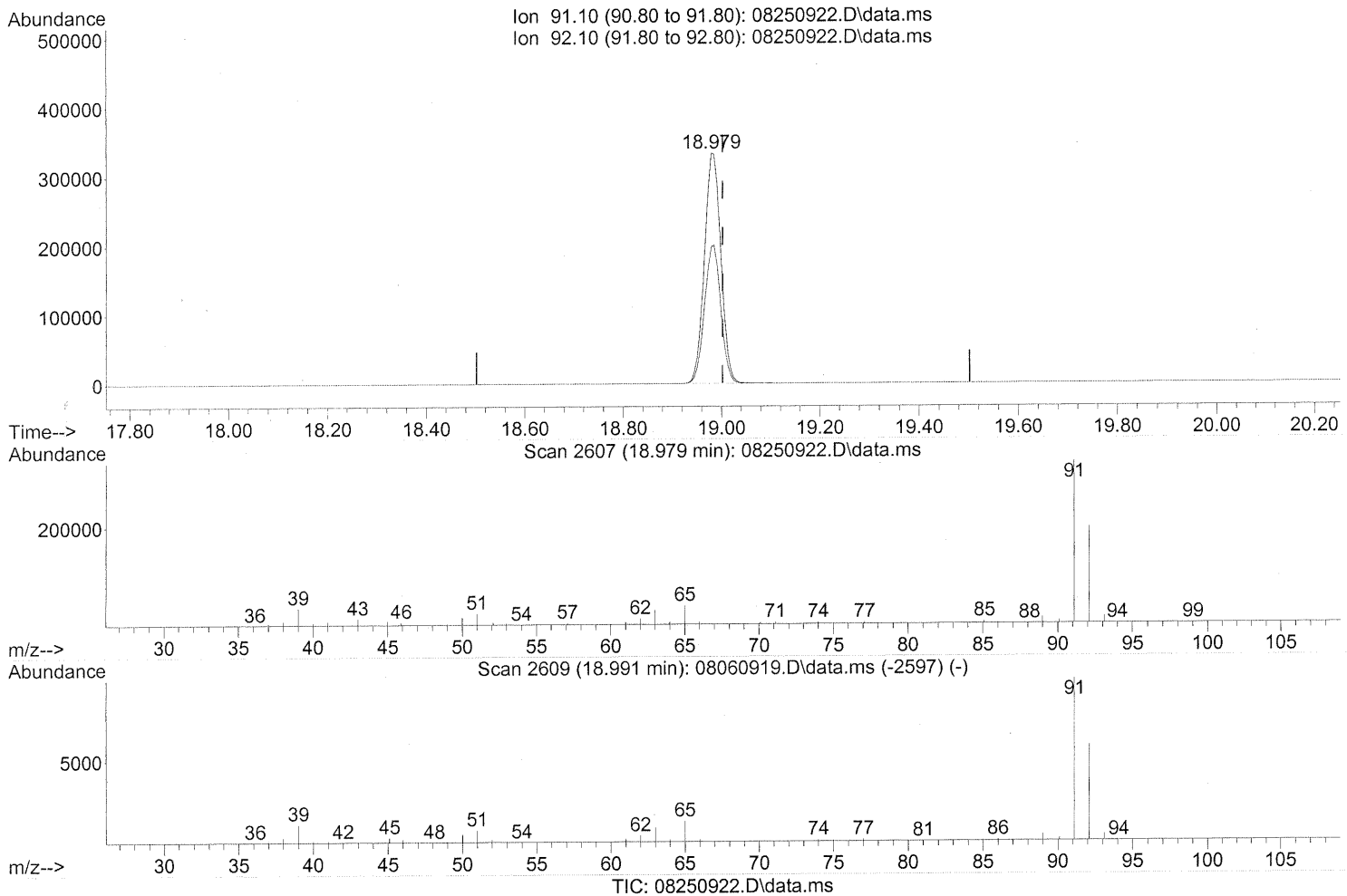
FP
M 9/11/09

[Signature] 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



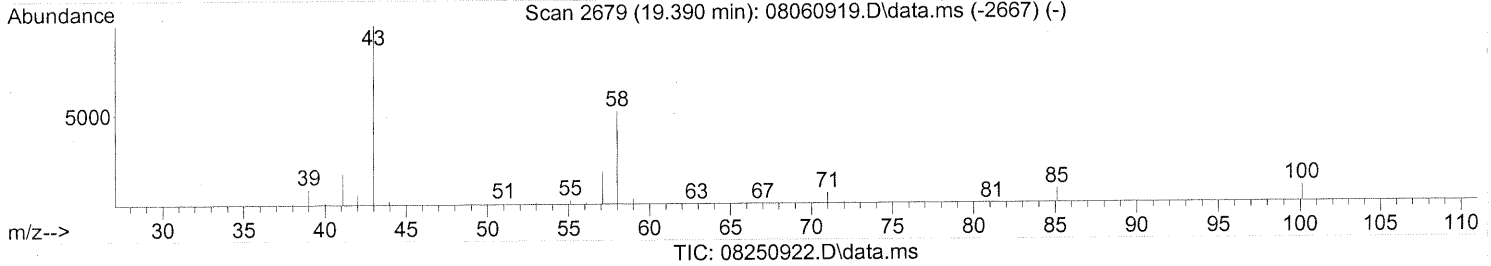
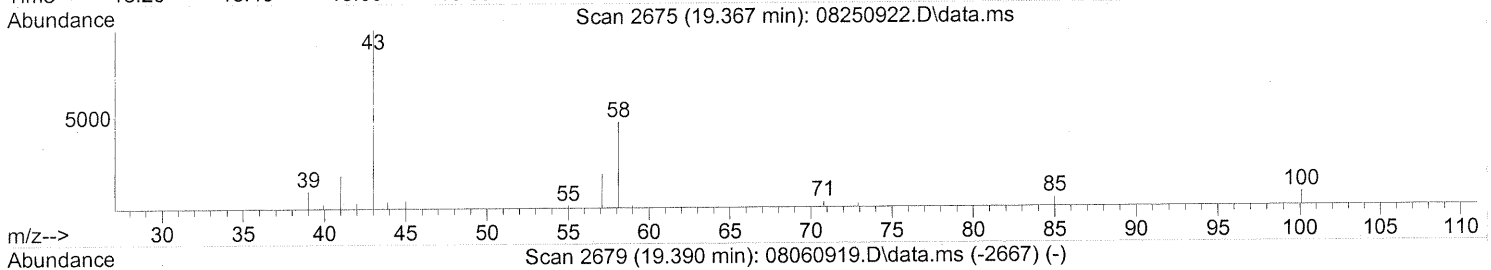
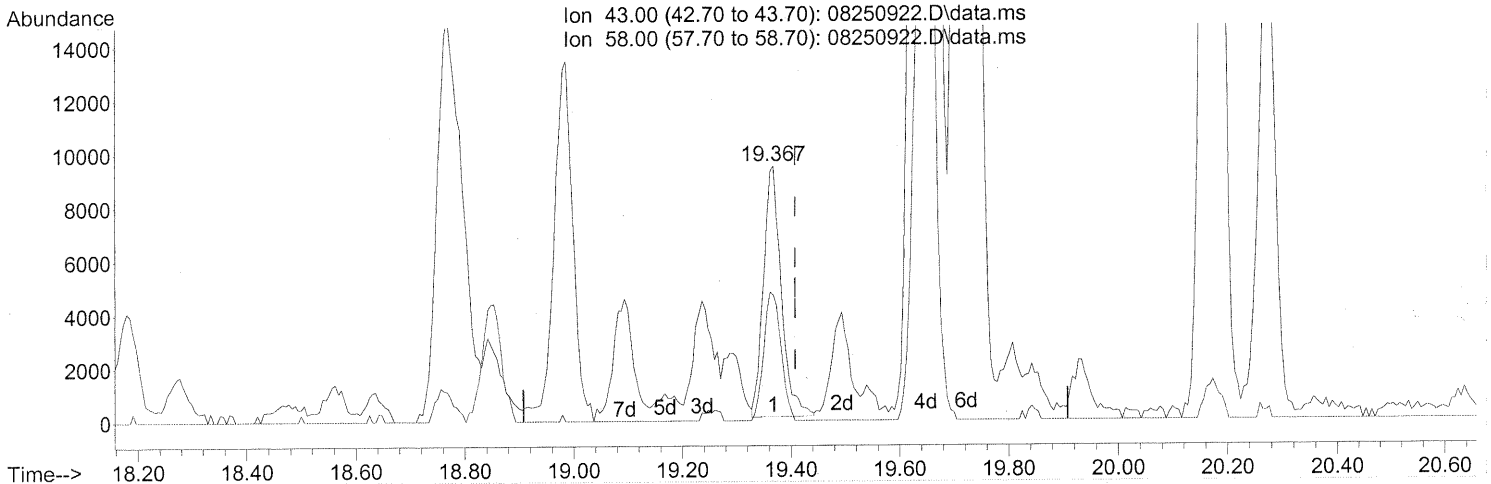
(58) Toluene (T)
18.979min (-0.023) 15.43ng
response 774691

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.367min (-0.040) 0.65ng

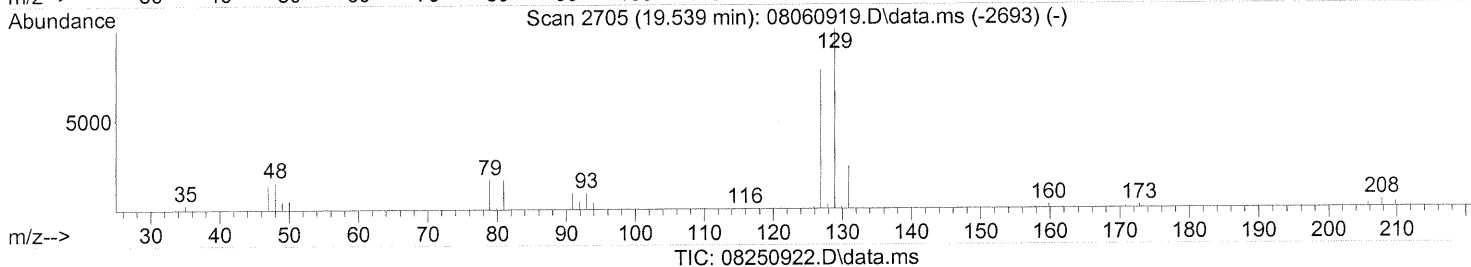
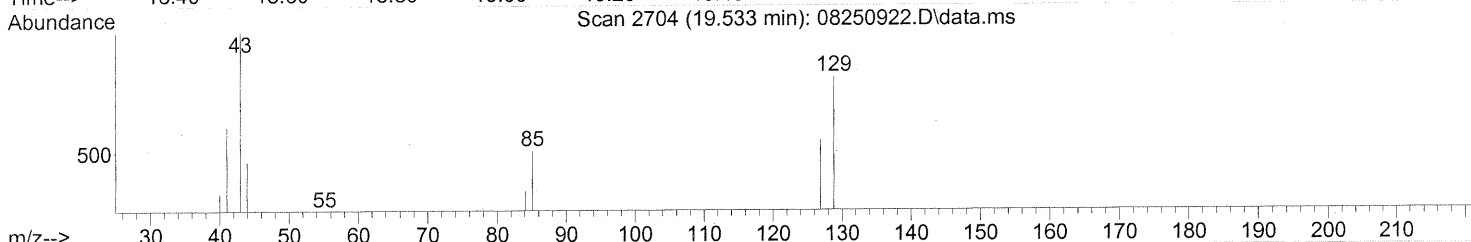
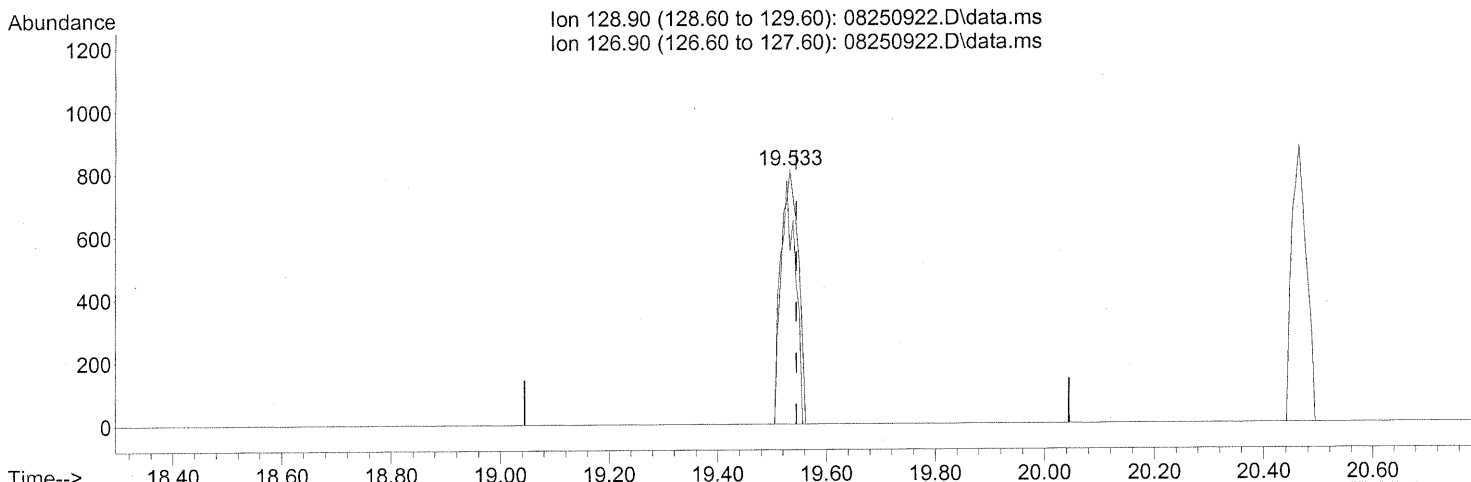
response 21551

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	49.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.533min (-0.011) 0.15ng

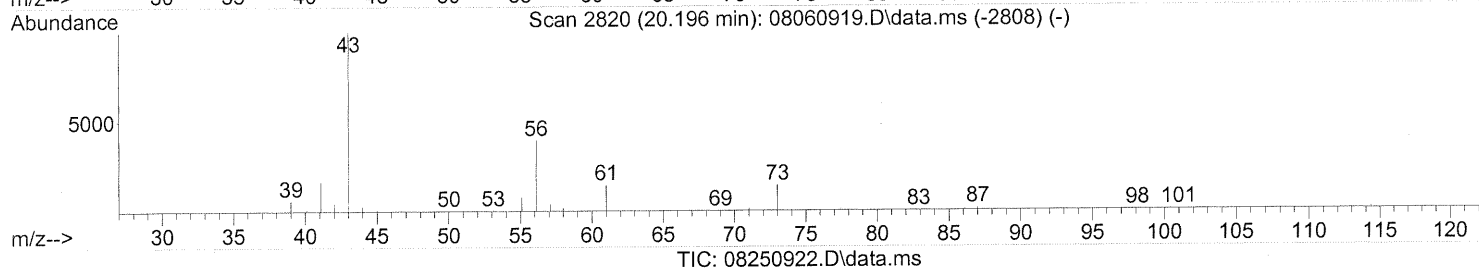
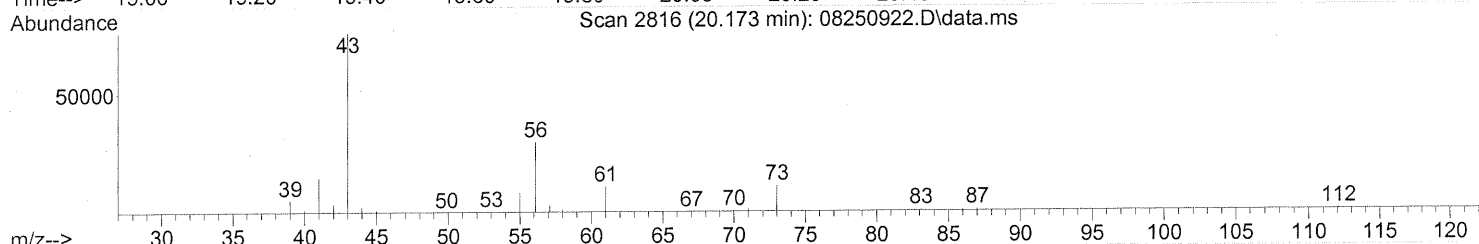
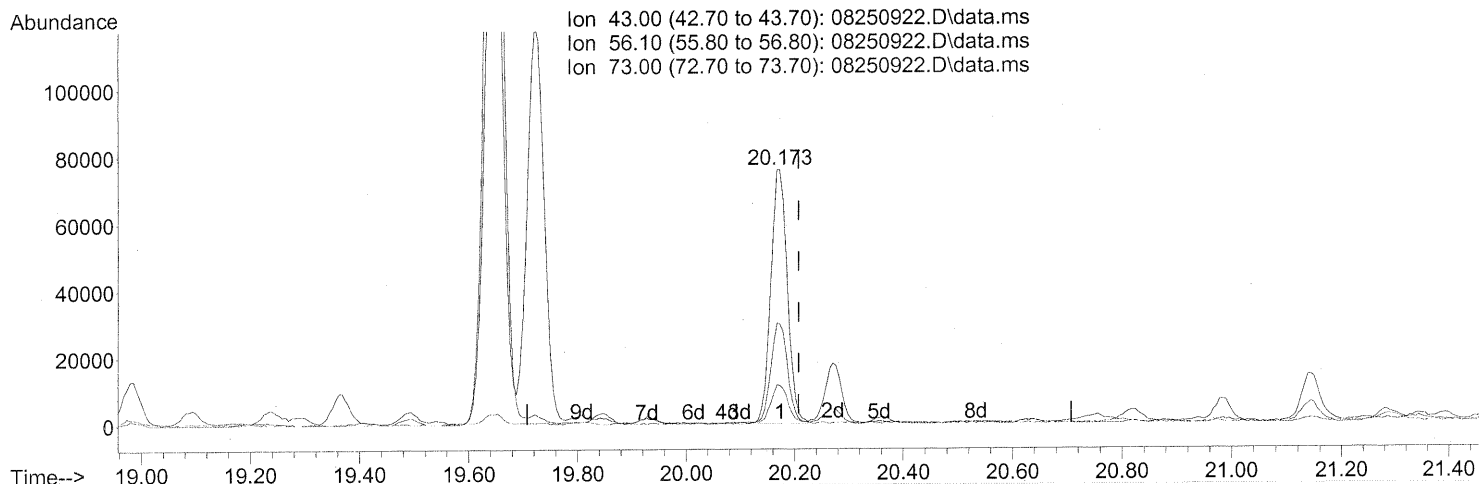
response 1740

Ion	Exp%	Act%
128.90	100	100
126.90	76.40	84.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(62) n-Butyl Acetate (T)

20.173min (-0.034) 4.11ng

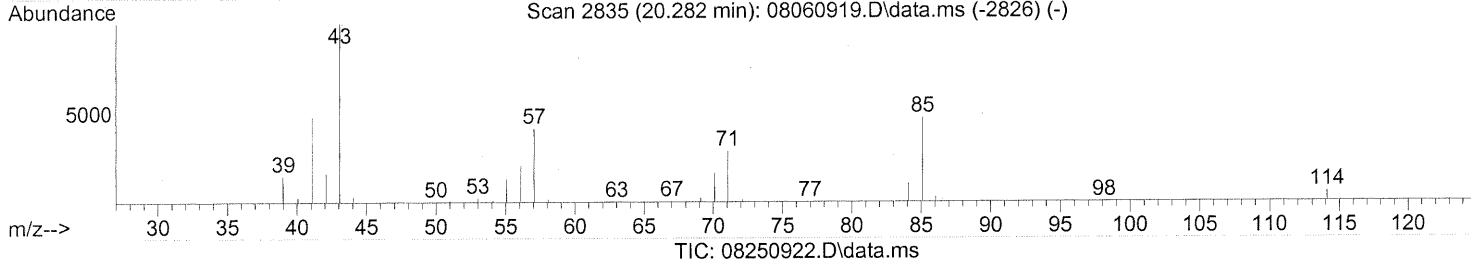
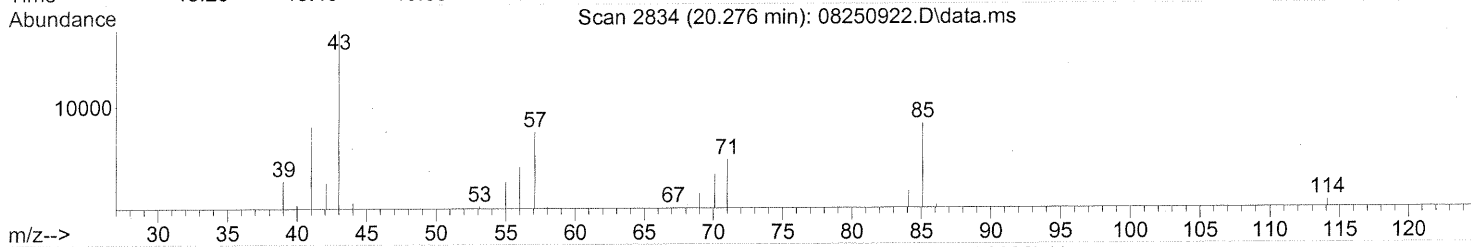
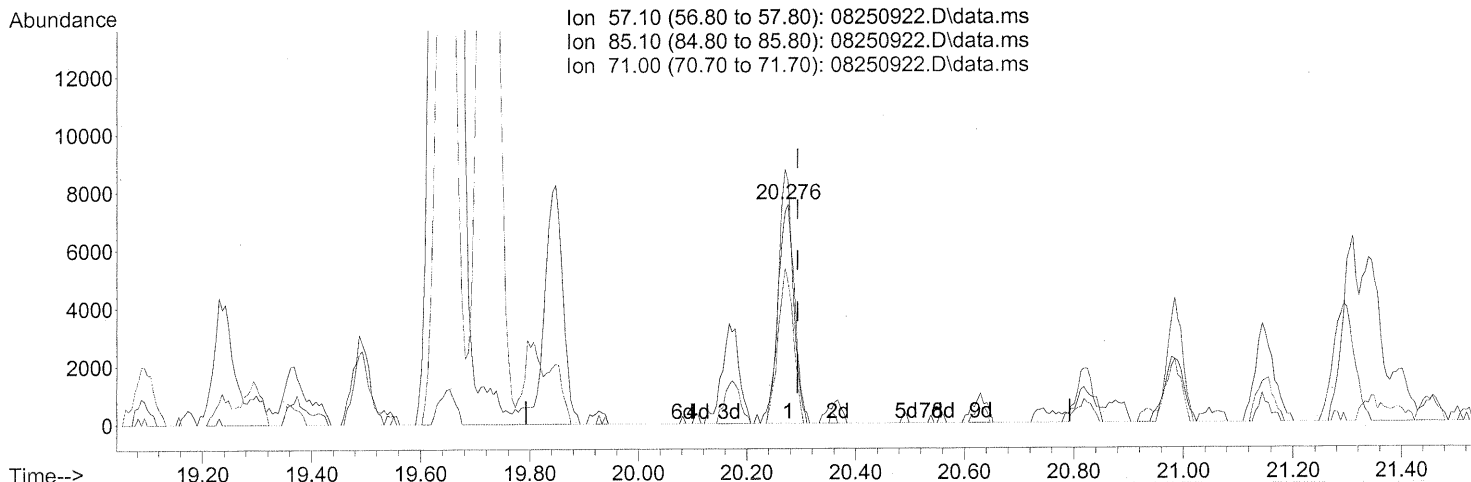
response 161631

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	39.96
73.00	14.80	16.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(63) n-Octane (T)

20.276min (-0.017) 1.28ng

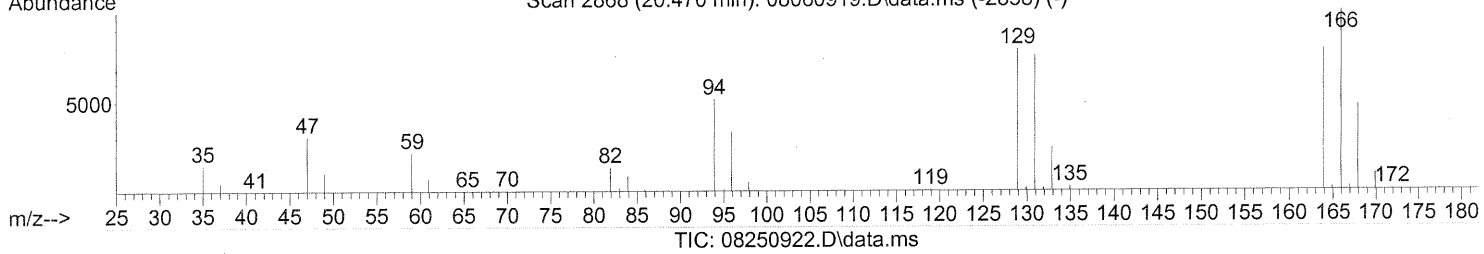
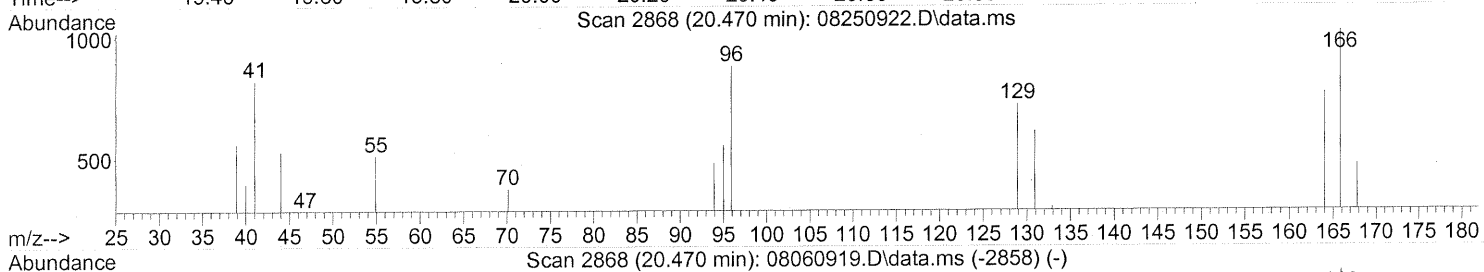
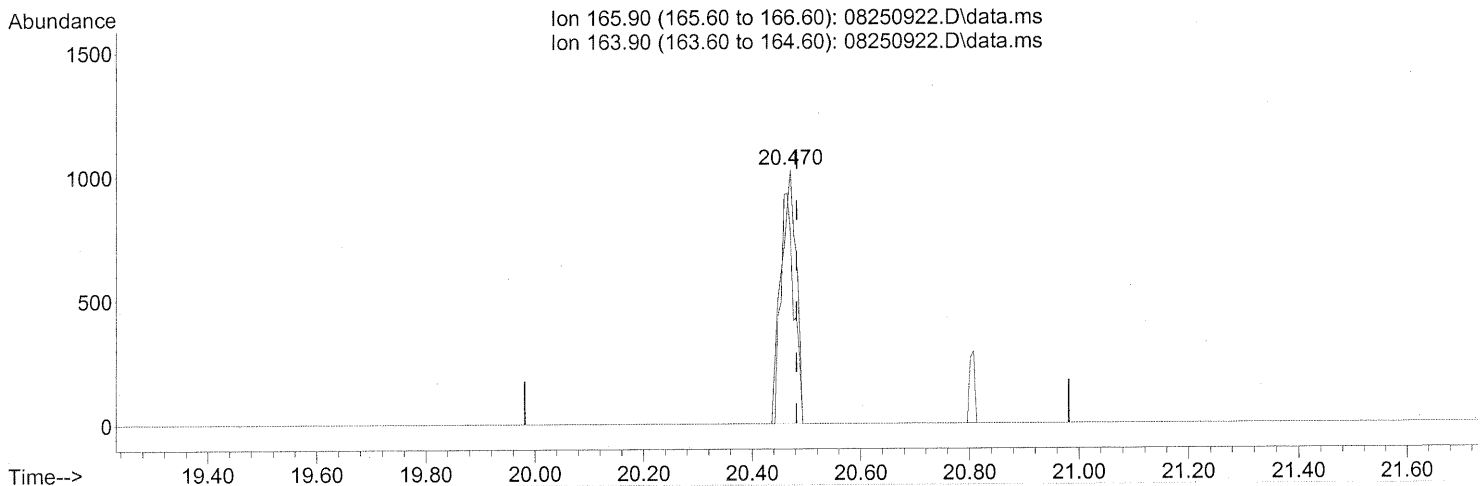
response 15483

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	110.66
71.00	68.10	67.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250922.D
Acq On : 26 Aug 2009 1:47 am
Operator : WA/CC
Sample : P0902876-005 (1000mL)
Misc : Environmental Health 102353
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.470min (-0.011) 0.17ng

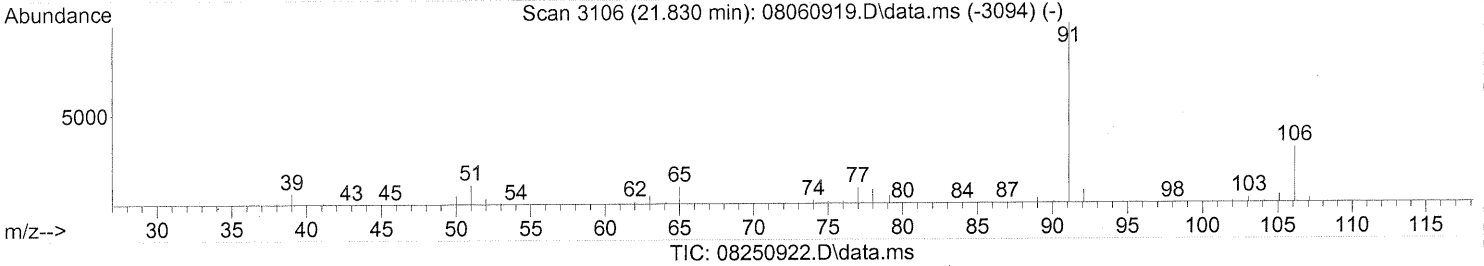
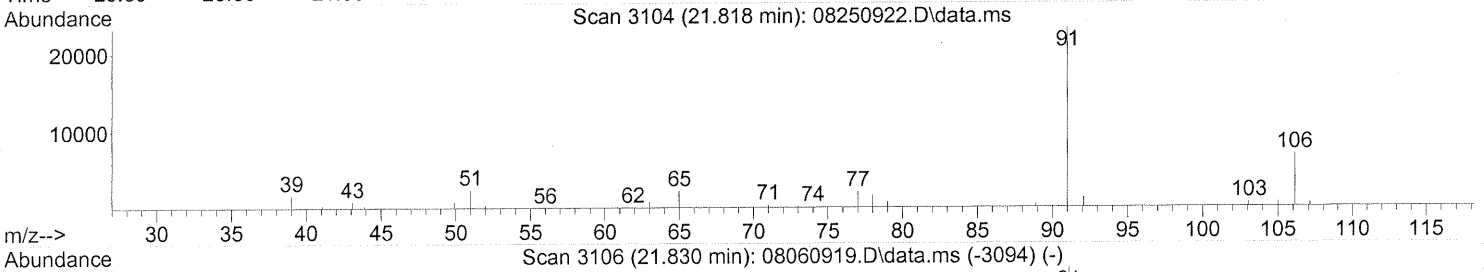
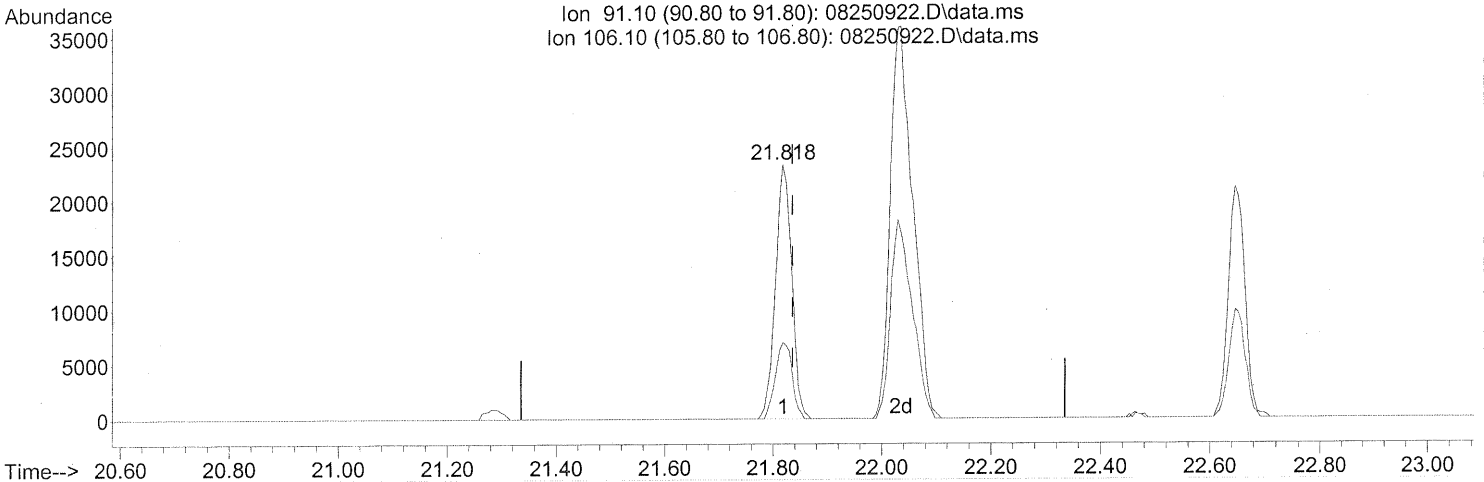
response 1991

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.818min (-0.017) 0.84ng

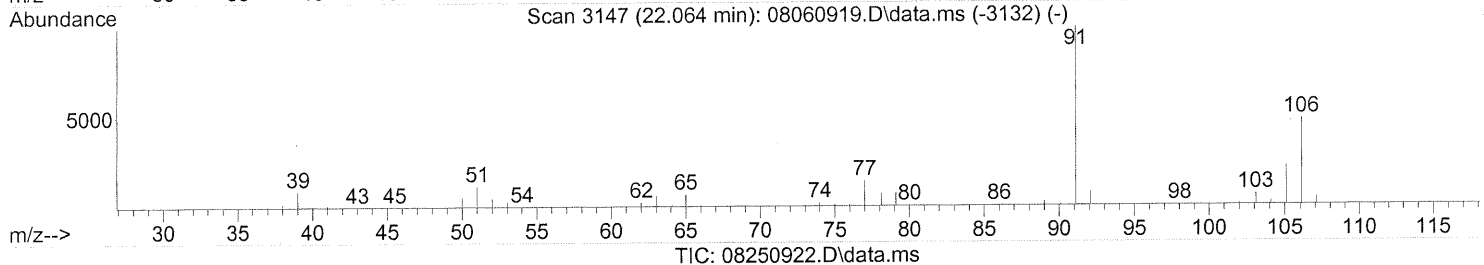
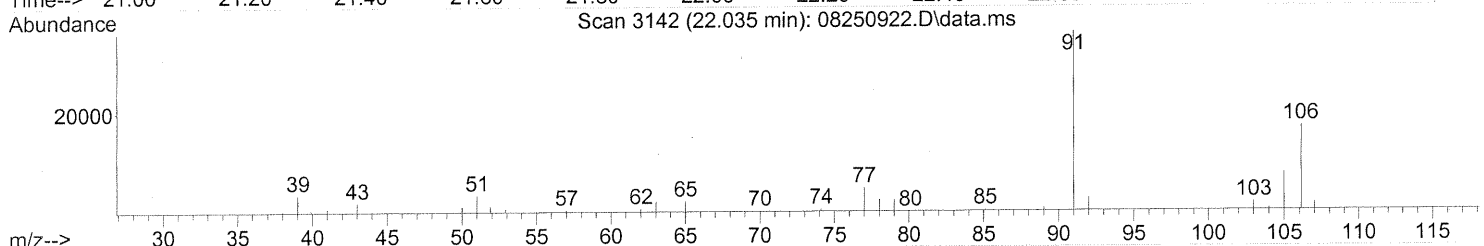
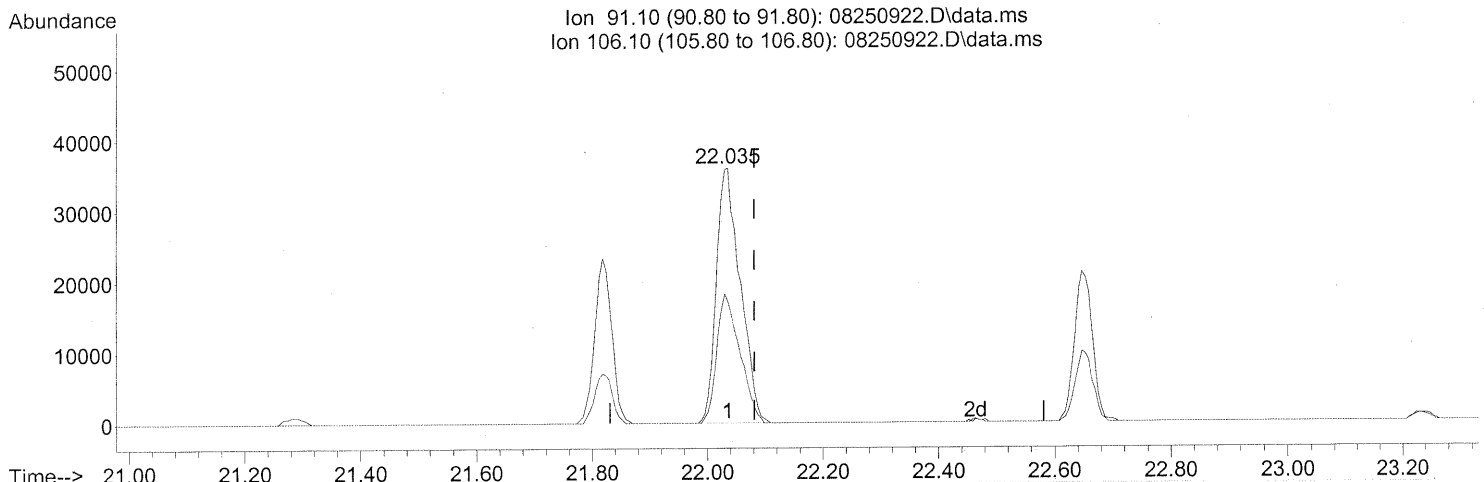
response 48241

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

22.035min (-0.046) 2.23ng

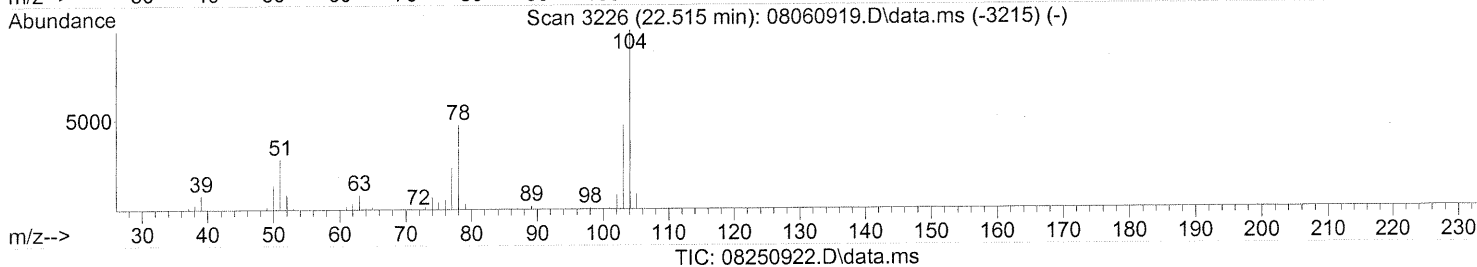
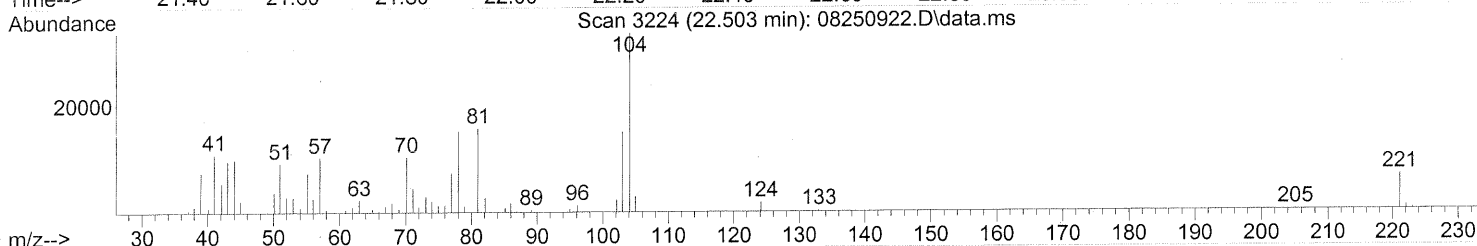
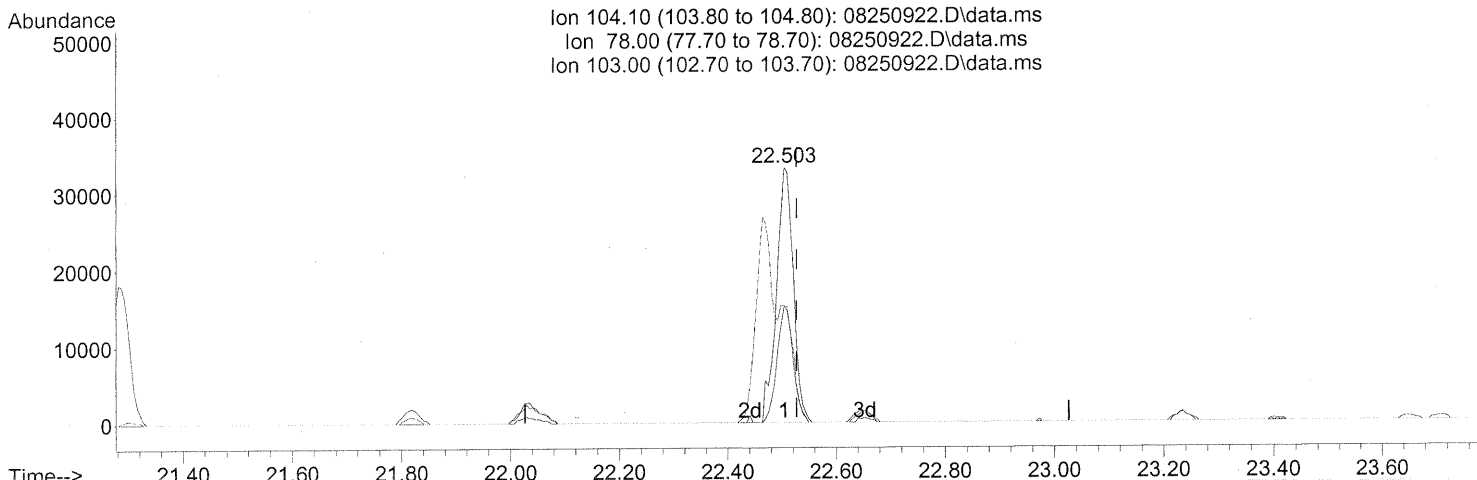
response 103394

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



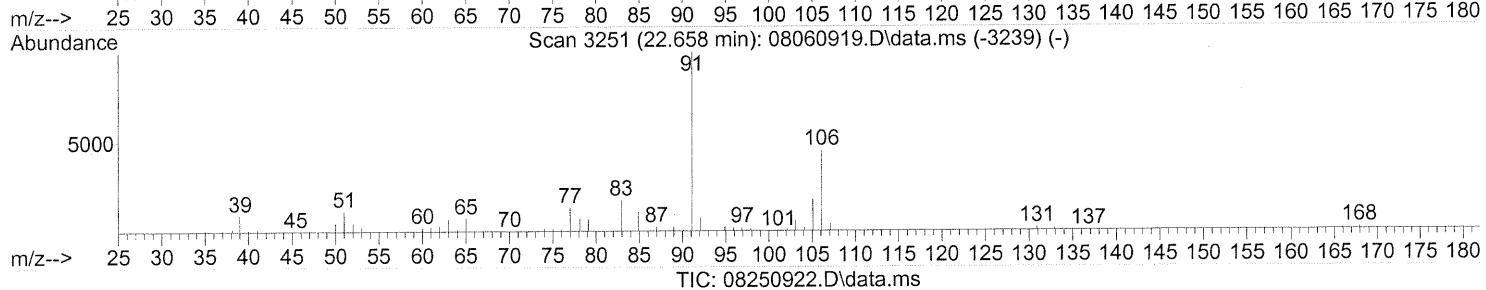
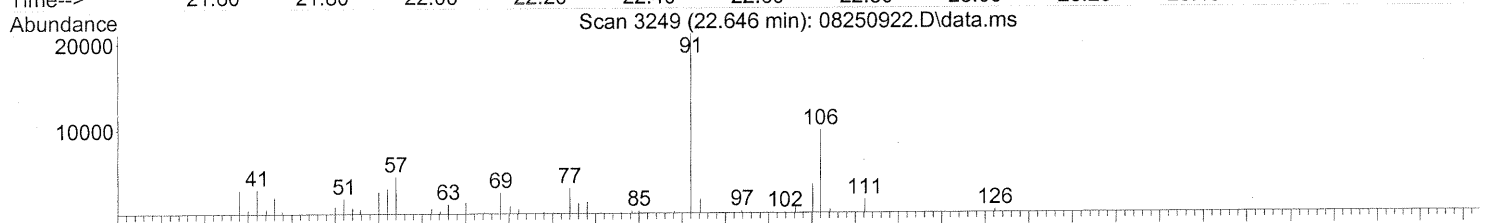
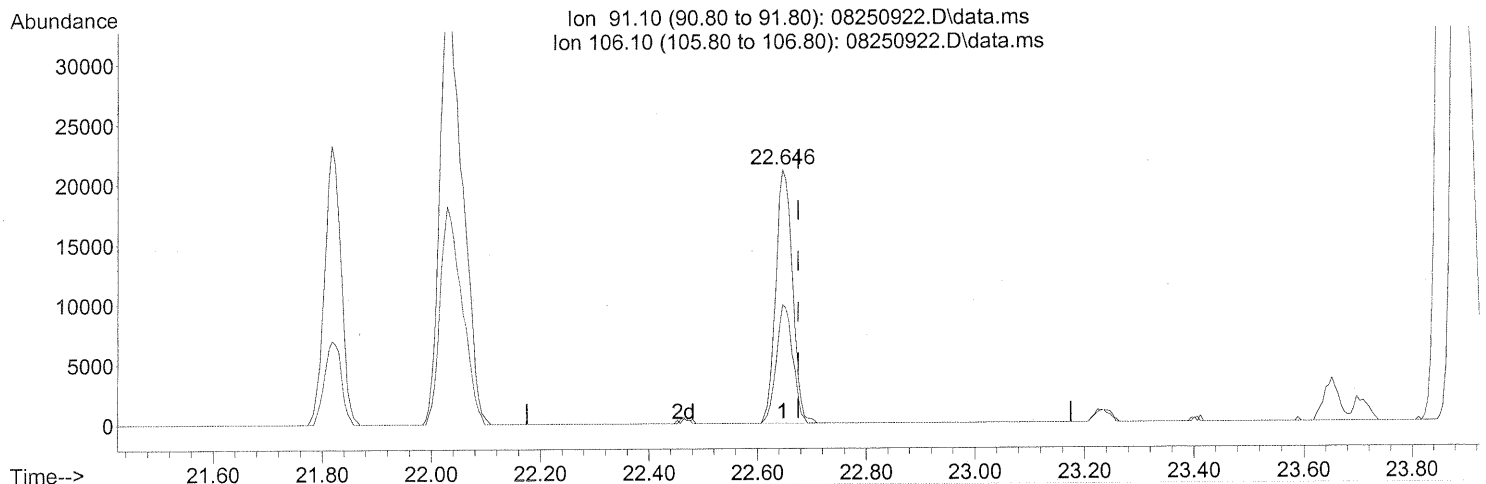
(69) Styrene (T)
 22.503min (-0.023) 2.14ng
 response 71733

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	43.24
103.00	46.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.646min (-0.029) 0.98ng

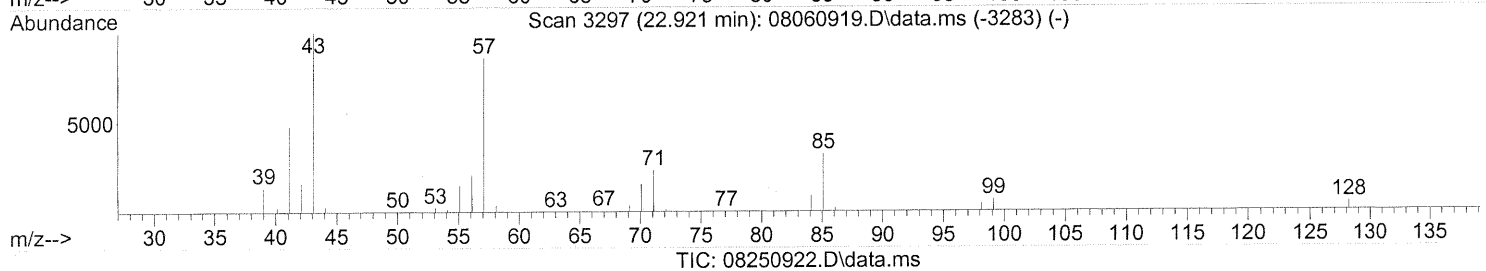
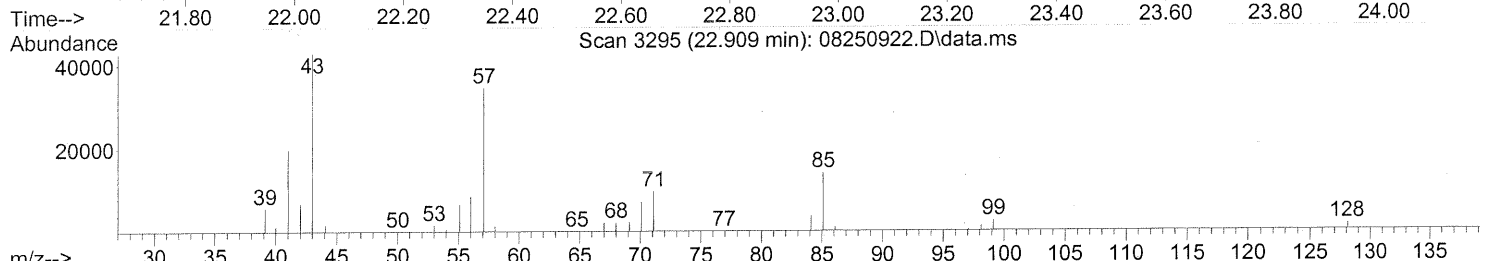
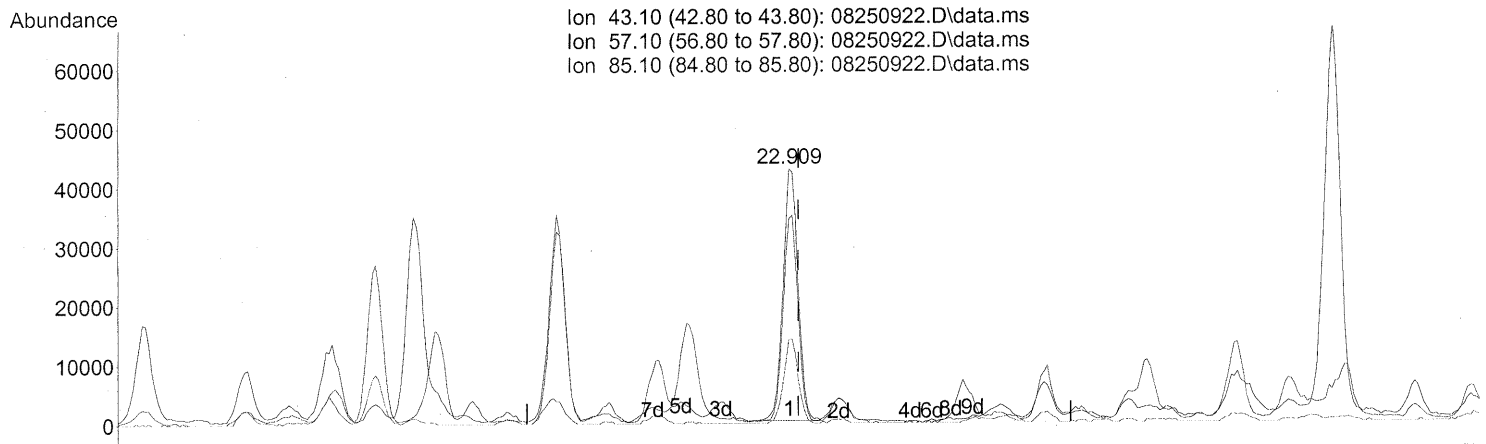
response 45376

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



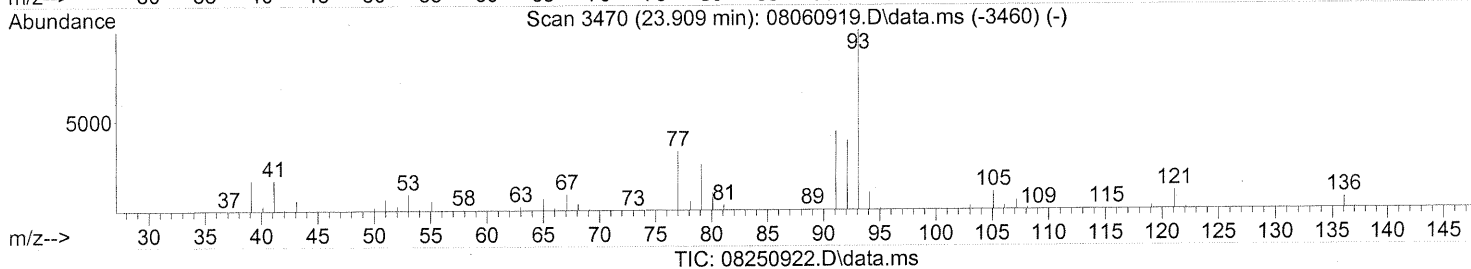
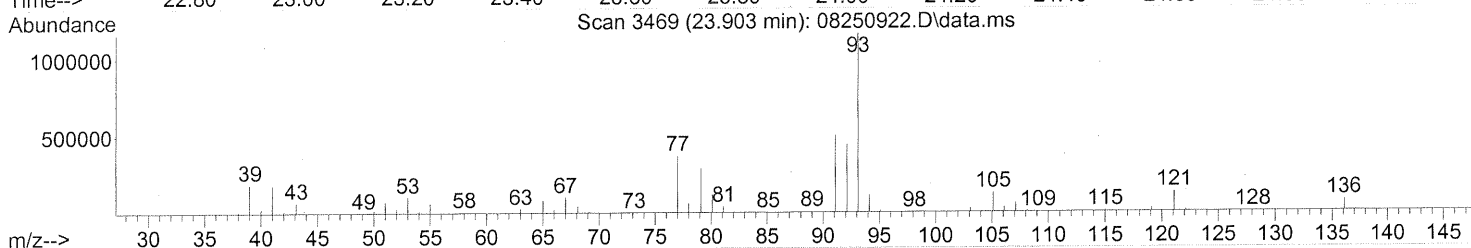
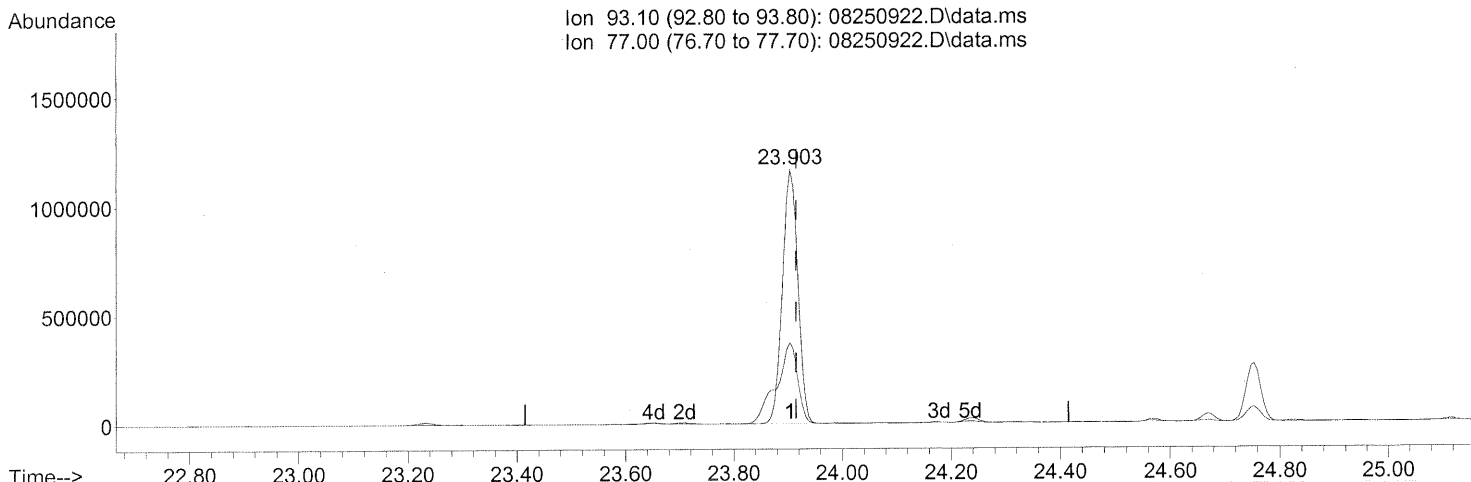
(71) n-Nonane (T)
 22.909min (-0.017) 2.64ng
 response 81739

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	83.52
85.10	30.40	32.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



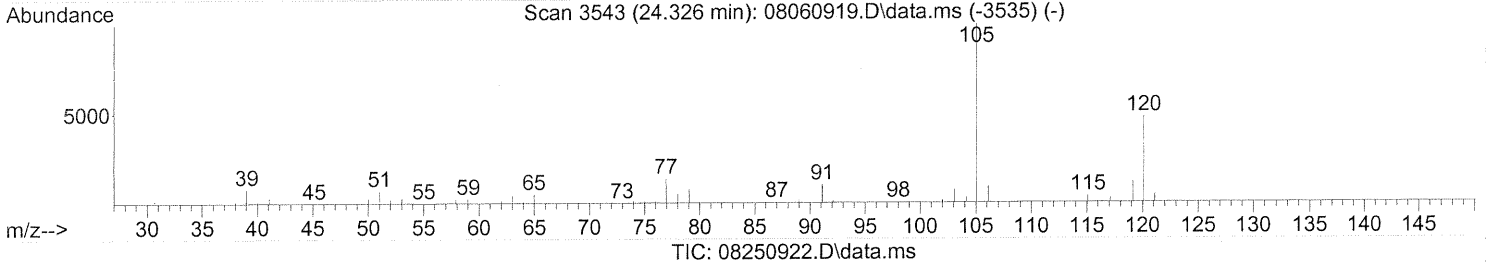
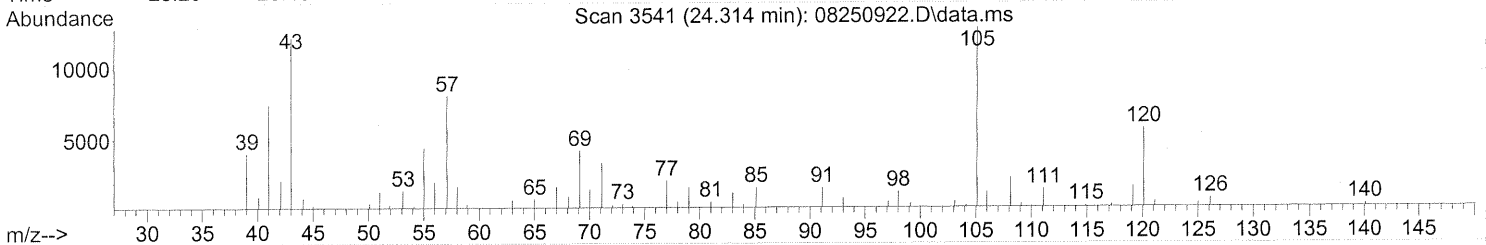
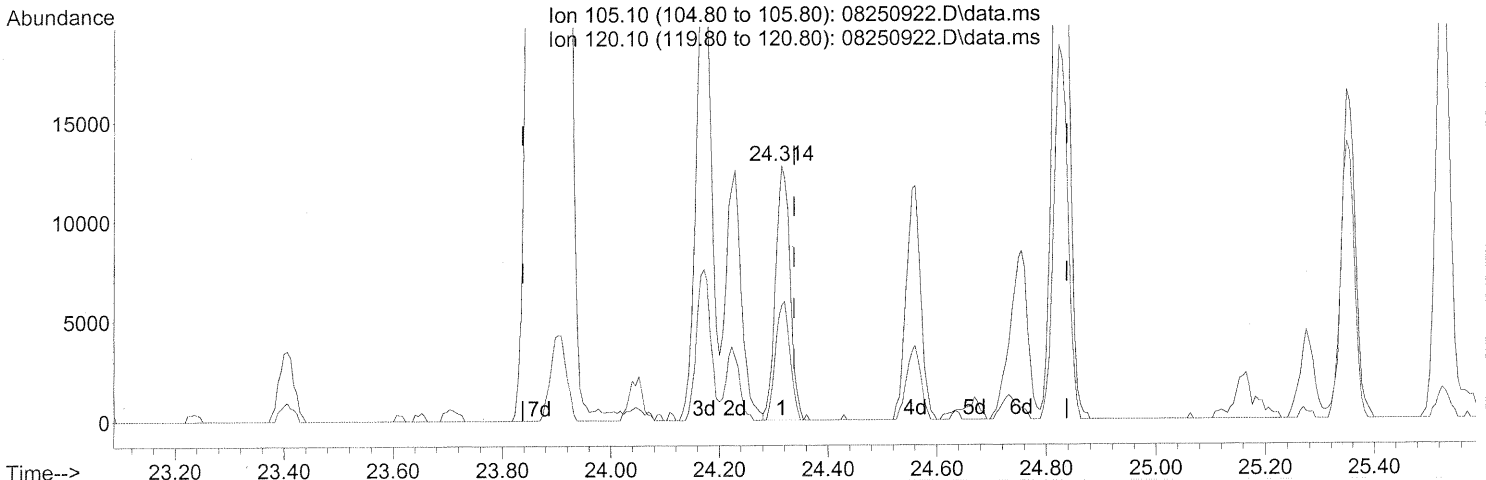
(75) alpha-Pinene (T)
 23.903min (-0.011) 75.72ng
 response 2281771

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	44.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.314min (-0.023) 0.52ng

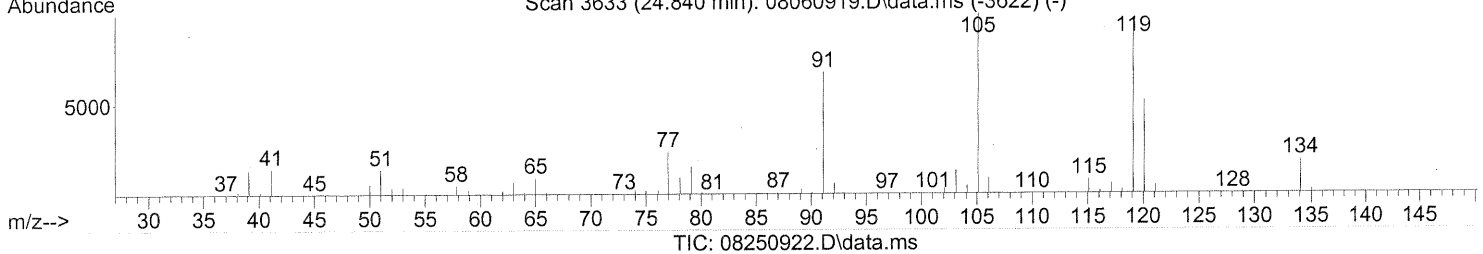
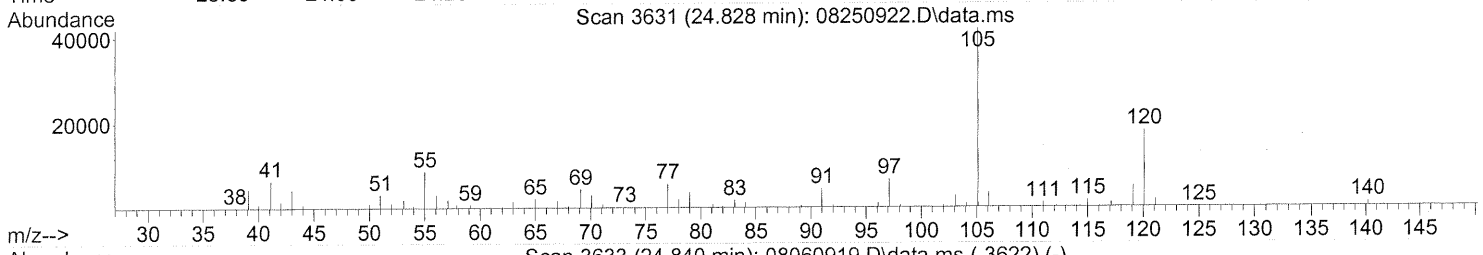
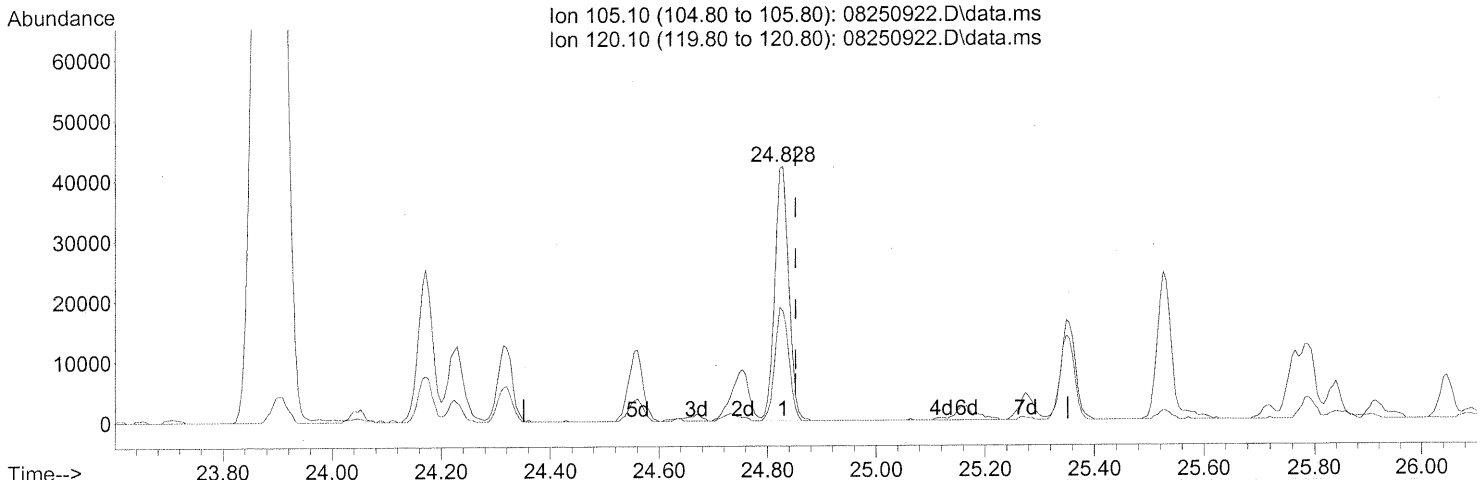
response 23721

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	45.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

24.828min (-0.023) 1.61ng

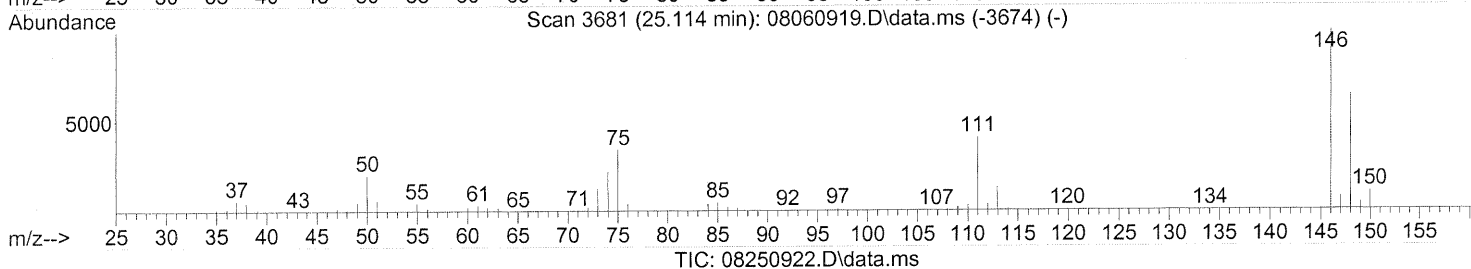
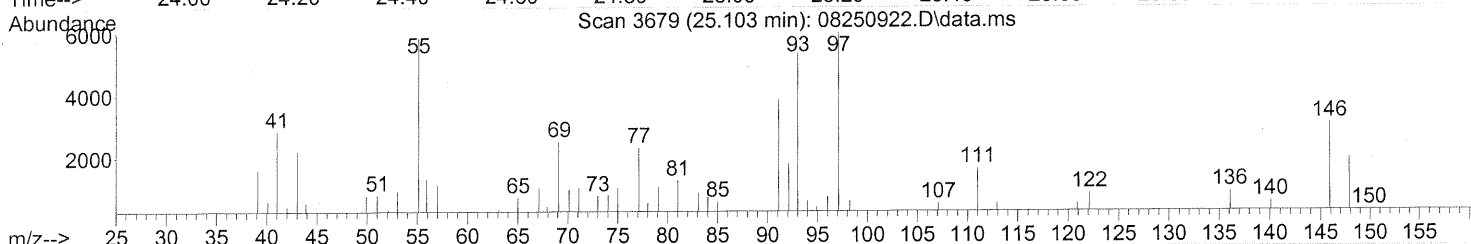
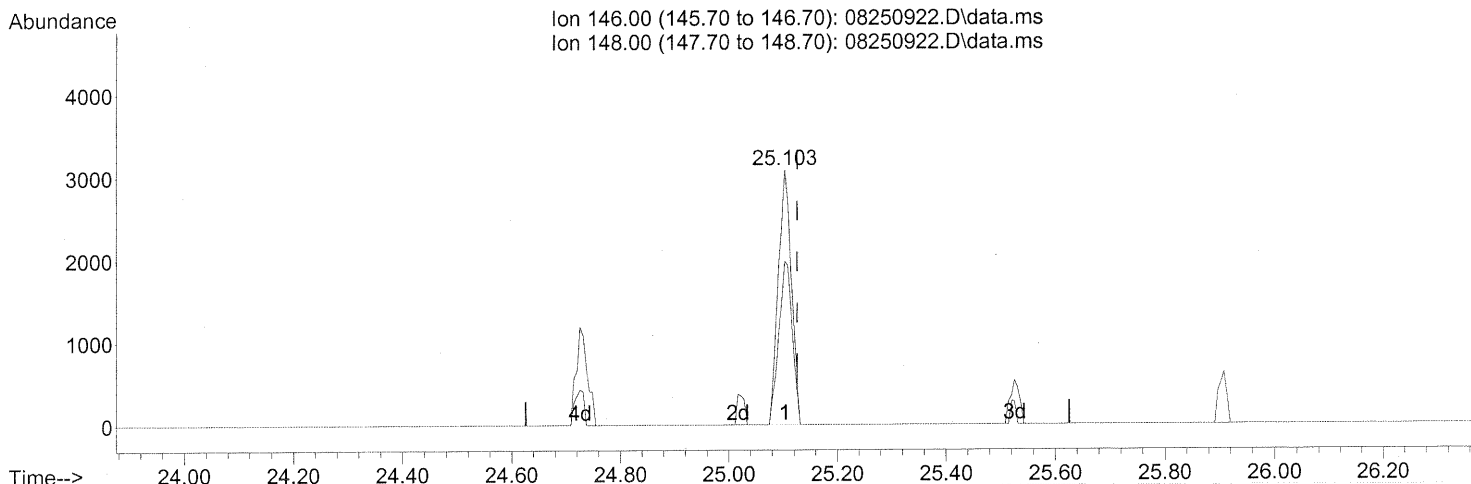
response 75549

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.20ng

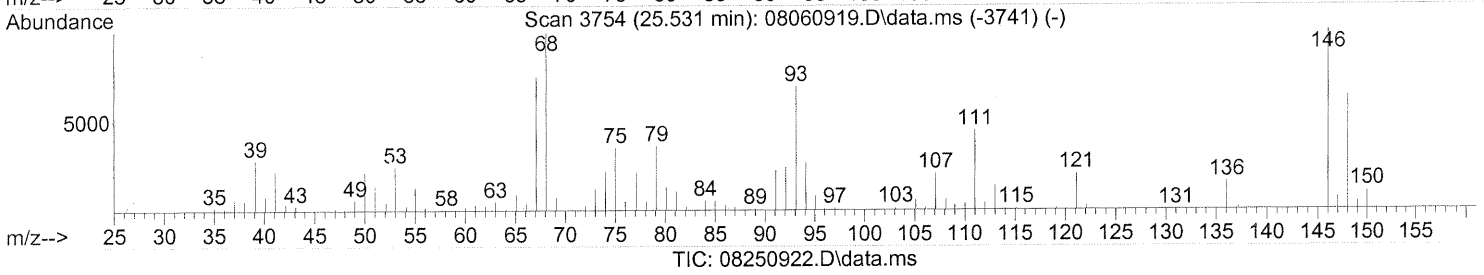
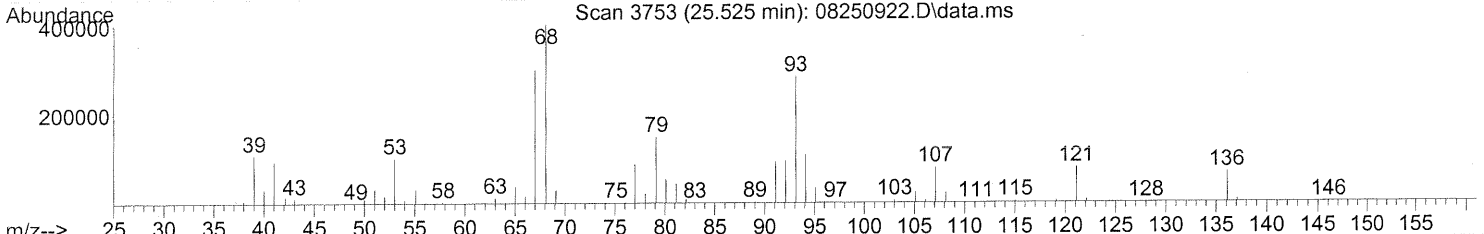
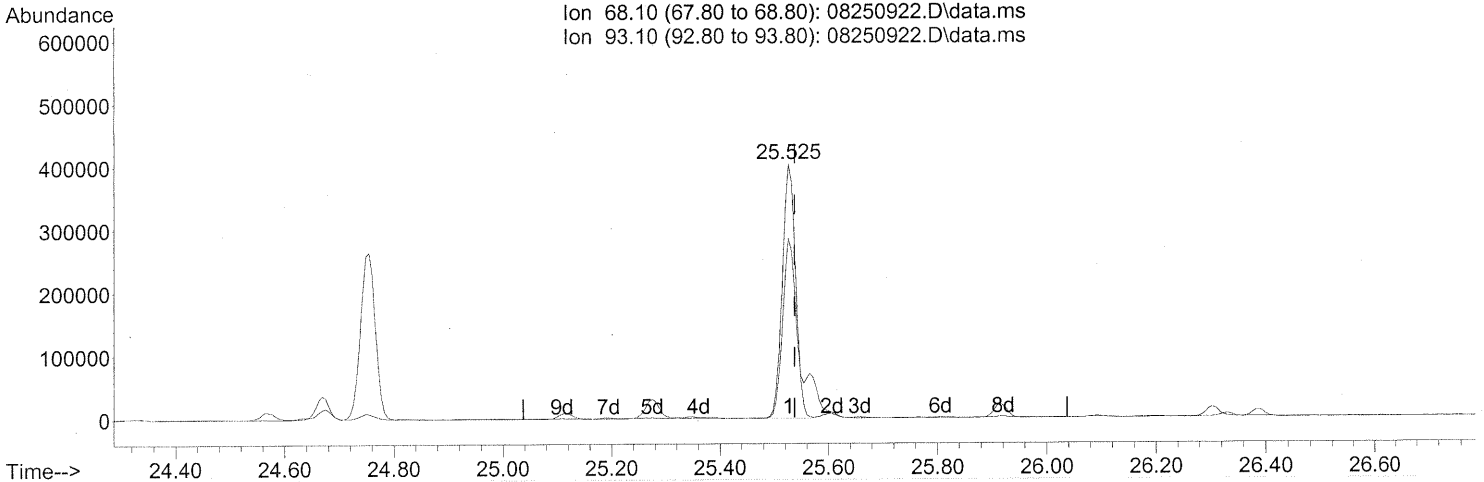
response 5165

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	65.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250922.D
 Acq On : 26 Aug 2009 1:47 am
 Operator : WA/CC
 Sample : P0902876-005 (1000mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 26 06:39:52 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

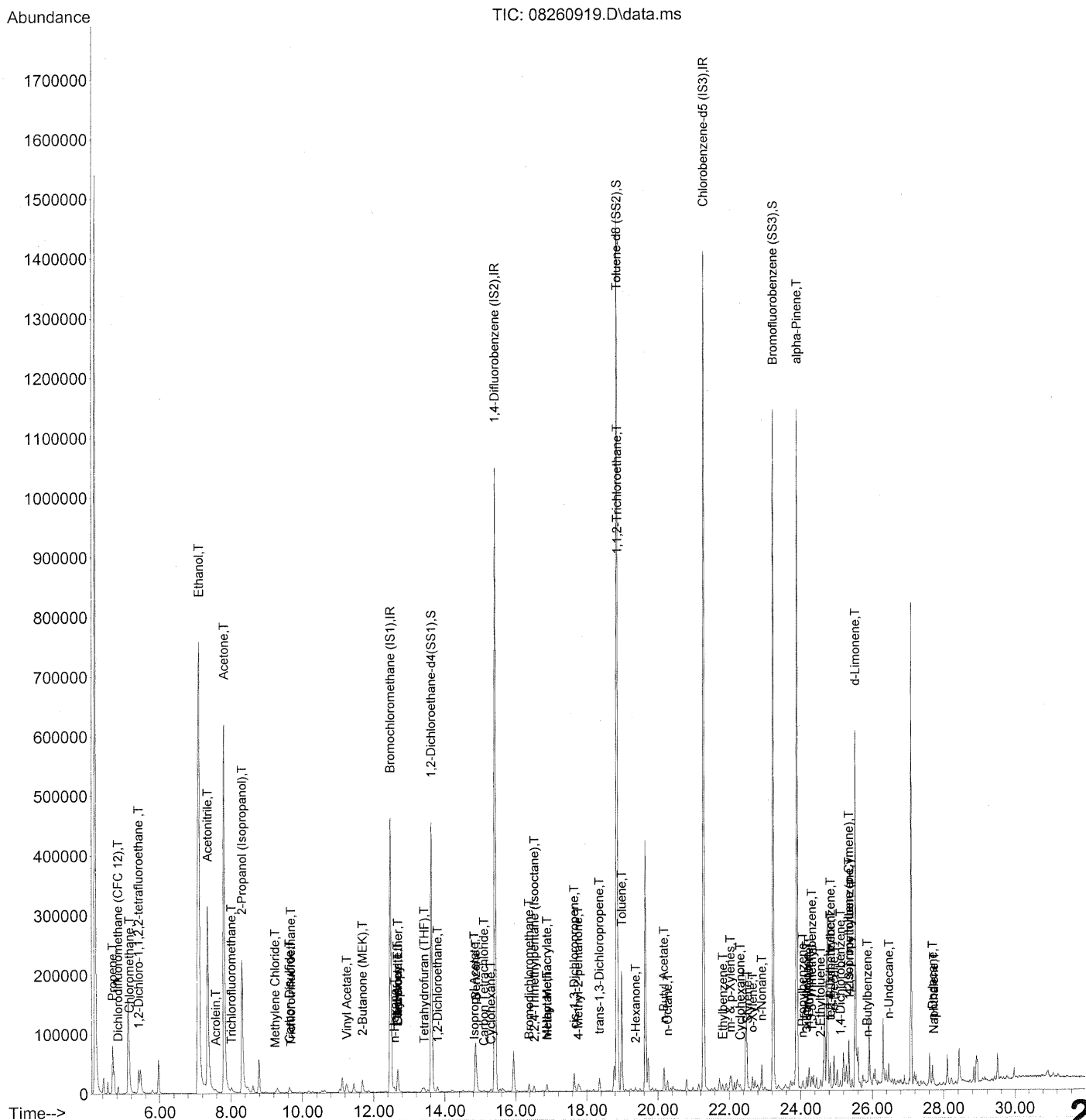


(91) d-Limonene (T)
 25.525min (-0.011) 34.14ng
 response 679724

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	90.58#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260919.D
 Acq On : 26 Aug 2009 10:53 pm
 Operator : WA/CC
 Sample : P0902876-005 dil (200mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 06:22:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260919.D
 Acq On : 26 Aug 2009 10:53 pm
 Operator : WA/CC
 Sample : P0902876-005 dil (200mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 06:22:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

M 9/11/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	234801	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1185836	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	585743	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	457949	22.440	ng	-0.04
Spiked Amount	25.000		Recovery	=	89.76%	
57) Toluene-d8 (SS2)	18.85	98	1290964	25.224	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.88%	
73) Bromofluorobenzene (SS3)	23.23	174	379527	28.119	ng	-0.01
Spiked Amount	25.000		Recovery	=	112.48%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.68	42	37638	2.336	ng	86
3) Dichlorodifluoromethan...	4.84	85	12775	0.485	ng	98
4) Chloromethane	5.16	50	5270	0.298	ng	87
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	634	0.059	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	231	N.D.		
8) Bromomethane	6.39	94	86	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	1739897	170.356	ng	100
11) Acetonitrile	7.34	41	552759	18.480	ng	98
12) Acrolein	7.57	56	6167	0.793	ng	97
13) Acetone	7.81	58	344836	35.784	ng	91
14) Trichlorofluoromethane	8.01	101	6285	0.264	ng	96
15) 2-Propanol (Isopropanol)	8.31	45	492684	13.010	ng	100
16) Acrylonitrile	8.56	53	90	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.38	59	243	N.D.		
19) Methylene Chloride	9.24	84	727	0.056	ng	# 64
20) 3-Chloro-1-propene (Al...	9.43	41	423	N.D.		
21) Trichlorotrifluoroethane	9.68	151	962	0.111	ng	# 83
22) Carbon Disulfide	9.64	76	21639	0.474	ng	96
23) trans-1,2-Dichloroethene	10.68	61	99	N.D.		
24) 1,1-Dichloroethane	10.99	63	183	N.D.		
25) Methyl tert-Butyl Ether	11.20	73	553	N.D.		
26) Vinyl Acetate	11.24	86	2766	1.410	ng	# 72
27) 2-Butanone (MEK)	11.68	72	10325	1.187	ng	92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	756	0.065	ng	# 1
30) Ethyl Acetate	12.67	61	7700	1.699	ng	92
31) n-Hexane	12.58	57	3818	0.165	ng	63

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260919.D
 Acq On : 26 Aug 2009 10:53 pm
 Operator : WA/CC
 Sample : P0902876-005 dil (200mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 06:22:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	6750	0.331	ng	99
34) Tetrahydrofuran (THF)	13.42	72	2155	0.232	ng #	78
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	7093	0.380	ng	97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.83	61	568	0.065	ng #	1
40) 1-Butanol	15.00	56	459	N.D.		
41) Benzene	14.87	78	10079	0.193	ng	94
42) Carbon Tetrachloride	15.10	117	1937	0.117	ng	99
43) Cyclohexane	15.29	84	2147	0.112	ng	91
44) tert-Amyl Methyl Ether	15.88	73	387	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	1126	0.066	ng	99
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.23	88	88	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	9163	0.149	ng	92
50) Methyl Methacrylate	16.88	100	844	0.176	ng #	1
51) n-Heptane	16.88	71	3583	0.256	ng	99
52) cis-1,3-Dichloropropene	17.65	75	24864	1.146	ng	98
53) 4-Methyl-2-pentanone	17.76	58	4366	0.348	ng	99
54) trans-1,3-Dichloropropene	18.35	75	18021	0.873	ng	99
55) 1,1,2-Trichloroethane	18.86	97	112393	9.818	ng #	5
58) Toluene	18.98	91	175942	3.498	ng	98
59) 2-Hexanone	19.37	43	6231	0.186	ng	85
60) Dibromochloromethane	19.53	129	89	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	35936	0.911	ng	96
63) n-Octane	20.27	57	3677	0.302	ng	97
64) Tetrachloroethene	20.46	166	451	N.D.		
65) Chlorobenzene	21.35	112	1150	N.D.		
66) Ethylbenzene	21.82	91	11840	0.206	ng	99
67) m- & p-Xylenes	22.03	91	24751	0.532	ng	97
68) Bromoform	22.15	173	199	N.D.		
69) Styrene	22.51	104	15538	0.462	ng #	63
70) o-Xylene	22.65	91	11158	0.239	ng	95
71) n-Nonane	22.91	43	18901	0.610	ng	98
72) 1,1,2,2-Tetrachloroethane	22.65	83	222	N.D.		
74) Cumene	23.40	105	2608	N.D.		
75) alpha-Pinene	23.90	93	534332	17.695	ng	81
76) n-Propylbenzene	24.05	91	5235	0.071	ng	92
77) 3-Ethyltoluene	24.17	105	11722	0.208	ng	96
78) 4-Ethyltoluene	24.22	105	6625	0.121	ng	91
79) 1,3,5-Trimethylbenzene	24.31	105	6290	0.137	ng	99

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260919.D
 Acq On : 26 Aug 2009 10:53 pm
 Operator : WA/CC
 Sample : P0902876-005 dil (200mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 06:22:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

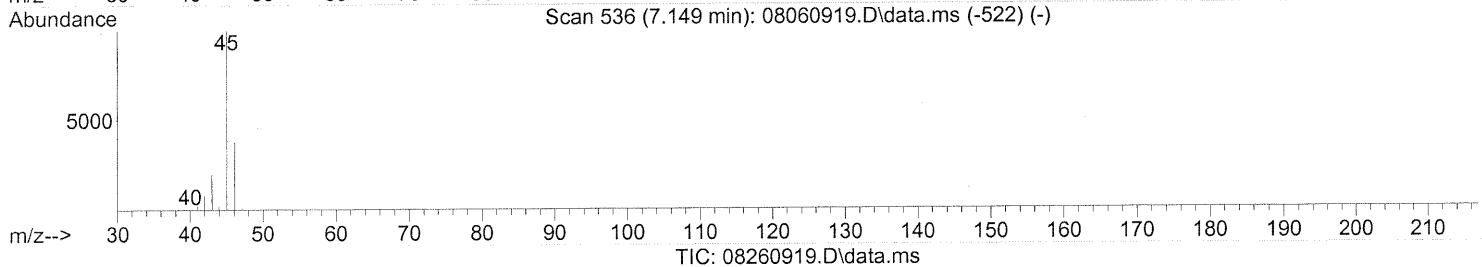
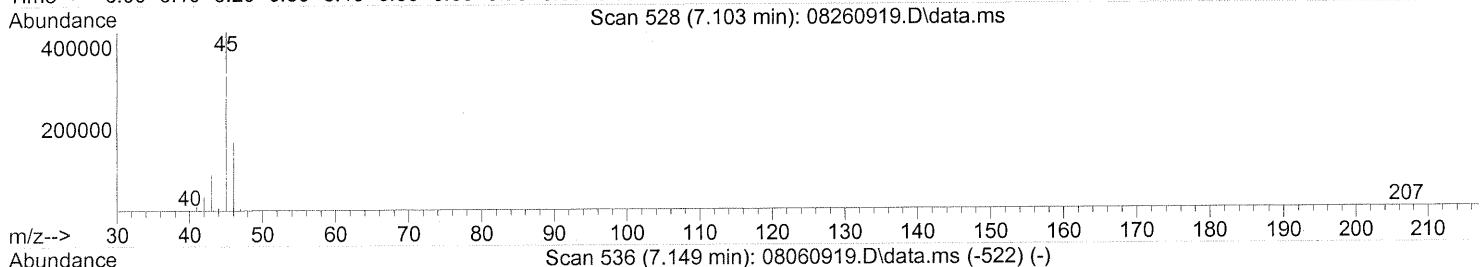
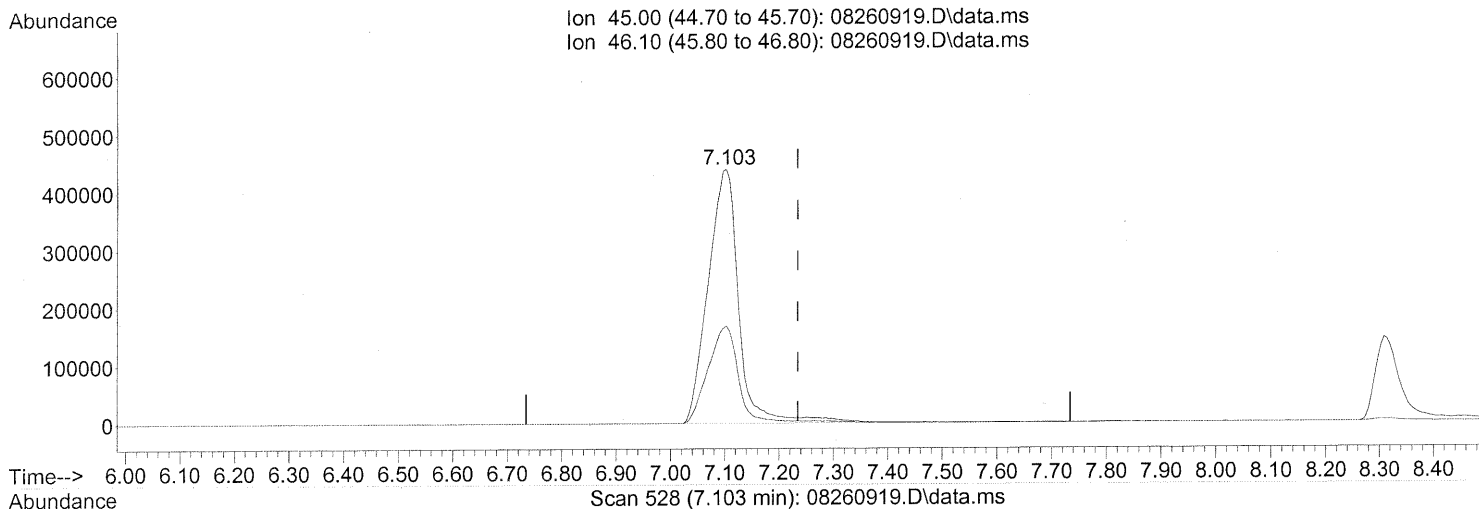
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	739	N.D.		
81) 2-Ethyltoluene	24.55	105	6067	0.107	ng	89
82) 1,2,4-Trimethylbenzene	24.83	105	18057	0.385	ng	88
83) n-Decane	24.93	57	22922	0.751	ng	95
84) Benzyl Chloride	25.00	91	2186	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	108	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	1586	0.063	ng	93
87) sec-Butylbenzene	25.16	105	2311	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	37063	0.656	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	8148	0.170	ng	# 63
90) 1,2-Dichlorobenzene	25.53	146	436	N.D.		
91) d-Limonene	25.53	68	155564	7.797	ng	76
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	12858	0.396	ng	# 67
94) 1,2,4-Trichlorobenzene	27.58	180	726	N.D.		
95) Naphthalene	27.72	128	9059	0.142	ng	97
96) n-Dodecane	27.69	57	13417	0.356	ng	91
97) Hexachlorobutadiene	28.14	225	236	N.D.		
98) Cyclohexanone	22.31	55	5576	0.268	ng	# 85
99) tert-Butylbenzene	24.83	119	3113	0.069	ng	# 56
100) n-Butylbenzene	25.86	91	4677	0.089	ng	# 61

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260919.D
 Acq On : 26 Aug 2009 10:53 pm
 Operator : WA/CC
 Sample : P0902876-005 dil (200mL)
 Misc : Environmental Health 102353
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 06:22:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.131) 170.36ng

response 1739897

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.28
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: 102470

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01374

Date Collected: 8/19/09

Date Received: 8/20/09

Date Analyzed: 8/26/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ppbV	ppbV	
115-07-1	Propene	ND	0.77	ND	0.44	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	0.77	0.62	0.15	
74-87-3	Chloromethane	1.1	0.15	0.55	0.074	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.069	
74-83-9	Bromomethane	ND	0.15	ND	0.039	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	130	7.7	67	4.1	
75-05-8	Acetonitrile	190	0.77	110	0.46	E
107-02-8	Acrolein	6.9	0.77	3.0	0.33	
67-64-1	Acetone	150	7.7	65	3.2	
75-69-4	Trichlorofluoromethane	1.4	0.15	0.25	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	10	0.77	4.2	0.31	
107-13-1	Acrylonitrile	ND	0.77	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	Trichlorotrifluoroethane	0.73	0.15	0.095	0.020	
75-15-0	Carbon Disulfide	9.4	0.77	3.0	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	0.57	0.15	0.16	0.042	
108-05-4	Vinyl Acetate	ND	7.7	ND	2.2	
78-93-3	2-Butanone (MEK)	6.6	0.77	2.2	0.26	

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: _____

9/2/09

243

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102470
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01374

CAS Project ID: P0902876
CAS Sample ID: P0902876-006

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result μg/m ³	MRL μg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
141-78-6	Ethyl Acetate	1.4	0.77	0.39	0.21	
110-54-3	n-Hexane	11	0.77	3.1	0.22	
67-66-3	Chloroform	0.20	0.15	0.040	0.031	
109-99-9	Tetrahydrofuran (THF)	1.1	0.77	0.36	0.26	
107-06-2	1,2-Dichloroethane	3.2	0.15	0.79	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	2.4	0.15	0.74	0.048	
56-23-5	Carbon Tetrachloride	0.62	0.15	0.098	0.024	
110-82-7	Cyclohexane	1.9	0.77	0.54	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.77	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.77	ND	0.19	
142-82-5	n-Heptane	3.2	0.77	0.79	0.19	
10061-01-5	cis-1,3-Dichloropropene	2.2	0.77	0.48	0.17	
108-10-1	4-Methyl-2-pentanone	0.92	0.77	0.23	0.19	
10061-02-6	trans-1,3-Dichloropropene	1.8	0.77	0.40	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	20	0.77	5.4	0.20	
591-78-6	2-Hexanone	1.5	0.77	0.36	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	3.0	0.77	0.64	0.16	

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: _____

9/8/09

244

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102470
Client Project ID: 16512

CAS Project ID: P0902876
 CAS Sample ID: P0902876-006

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01374

Date Collected: 8/19/09
 Date Received: 8/20/09
 Date Analyzed: 8/26/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.8 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	2.0	0.77	0.42	0.16	
127-18-4	Tetrachloroethene	0.27	0.15	0.040	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	4.1	0.77	0.96	0.18	
179601-23-1	m,p-Xylenes	7.7	0.77	1.8	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.074	
100-42-5	Styrene	5.7	0.77	1.3	0.18	
95-47-6	o-Xylene	3.9	0.77	0.89	0.18	
111-84-2	n-Nonane	1.4	0.77	0.26	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.77	ND	0.16	
80-56-8	alpha-Pinene	92	0.77	16	0.14	
103-65-1	n-Propylbenzene	1.1	0.77	0.23	0.16	
622-96-8	4-Ethyltoluene	1.4	0.77	0.29	0.16	
108-67-8	1,3,5-Trimethylbenzene	1.7	0.77	0.34	0.16	
95-63-6	1,2,4-Trimethylbenzene	5.5	0.77	1.1	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	0.28	0.15	0.046	0.025	
5989-27-5	d-Limonene	20	0.77	3.6	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	2.3	0.77	0.44	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

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: _____

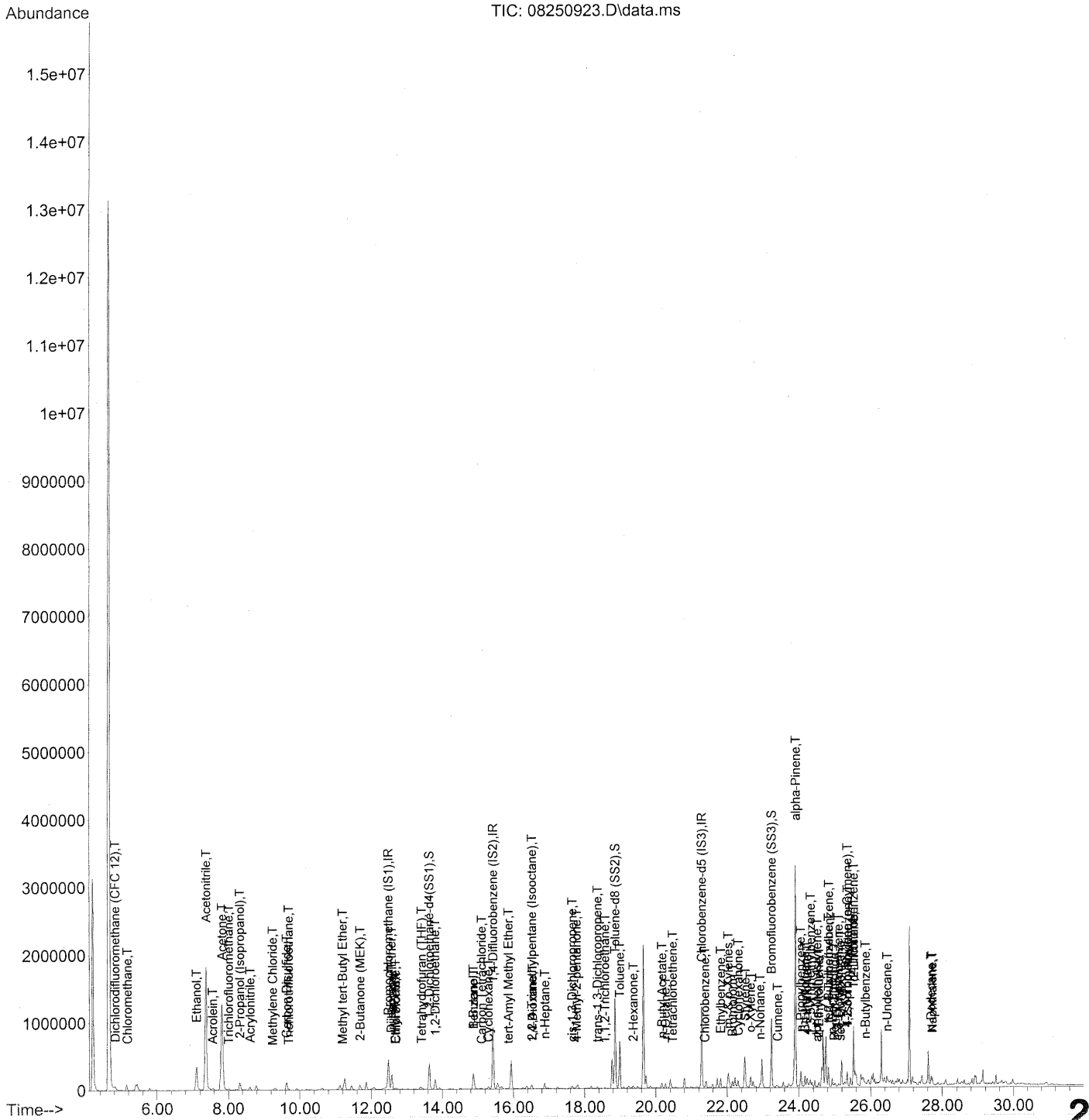
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9/8/09

245

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28 am
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 02 08:53:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28 am
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 02 08:53:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

11/9/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	208543	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1043895	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	506937	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	391774	21.614	ng	-0.03
Spiked Amount	25.000			Recovery =	86.44%	
57) Toluene-d8 (SS2)	18.85	98	1149597	25.953	ng	-0.02
Spiked Amount	25.000			Recovery =	103.80%	
73) Bromofluorobenzene (SS3)	23.23	174	331334	28.365	ng	-0.01
Spiked Amount	25.000			Recovery =	113.44%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.82	85	46858	2.003	ng	99
4) Chloromethane	5.17	50	11627	0.740	ng	90
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	470	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	177	N.D.		
8) Bromomethane	6.35	94	192	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	747354	82.388	ng	100
11) Acetonitrile	7.38	41	3284053	123.620	ng	99
12) Acrolein	7.56	56	31019	4.492	ng	96
13) Acetone	7.82	58	860140	100.496	ng	95
14) Trichlorofluoromethane	8.01	101	19698	0.932	ng	99
15) 2-Propanol (Isopropanol)	8.33	45	226596	6.737	ng	99
16) Acrylonitrile	8.61	53	1586	0.103	ng	# 9
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.40	59	89	N.D.		
19) Methylene Chloride	9.24	84	1576	0.137	ng	98
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.68	151	3668	0.477	ng	92
22) Carbon Disulfide	9.63	76	249871	6.166	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	11.19	73	11966	0.370	ng	70
26) Vinyl Acetate	0.00	86	0	N.D.	d	
27) 2-Butanone (MEK)	11.68	72	33175	4.293	ng	# 92
28) cis-1,2-Dichloroethene	12.09	61	92	N.D.		
29) Diisopropyl Ether	12.56	87	1409	0.136	ng	# 1
30) Ethyl Acetate	12.67	61	3690	0.917	ng	87
31) n-Hexane	12.58	57	145422	7.061	ng	247

11/9/09
E 11/9/09

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28 am
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 02 08:53:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2345	0.129 ng		86
34) Tetrahydrofuran (THF)	13.41	72	5788	0.703 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	34462	2.080 ng		99
38) 1,1,1-Trichloroethane	14.16	97	96	N.D.		
39) Isopropyl Acetate	14.85	61	181	N.D.		
40) 1-Butanol	14.87	56	164801	12.164 ng		81
41) Benzene	14.87	78	71270	1.553 ng		99
42) Carbon Tetrachloride	15.10	117	5908	0.404 ng		99
43) Cyclohexane	15.29	84	20350	1.211 ng		96
44) tert-Amyl Methyl Ether	15.85	73	9903	0.287 ng	#	73
45) 1,2-Dichloropropane	15.95	63	94	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.53	88	1478	0.169 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	51578	0.954 ng		80
50) Methyl Methacrylate	16.77	100	86	N.D.		
51) n-Heptane	16.88	71	25977	2.109 ng		94
52) cis-1,3-Dichloropropene	17.65	75	27260	1.427 ng		97
53) 4-Methyl-2-pentanone	17.76	58	6658	0.604 ng		89
54) trans-1,3-Dichloropropene	18.36	75	21634	1.191 ng		100
55) 1,1,2-Trichloroethane	18.56	97	545	0.054 ng	#	1
58) Toluene	18.98	91	576091	13.234 ng		99
59) 2-Hexanone	19.36	43	28236	0.975 ng		99
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	68015	1.993 ng		95
63) n-Octane	20.27	57	13633	1.295 ng		95
64) Tetrachloroethene	20.47	166	1787	0.177 ng	#	76
65) Chlorobenzene	21.37	112	1730	0.064 ng	#	43
66) Ethylbenzene	21.82	91	134950	2.712 ng		100
67) m- & p-Xylenes	22.03	91	202013	5.018 ng		98
68) Bromoform	22.15	173	480	0.056 ng	#	29
69) Styrene	22.50	104	109196	3.753 ng		99
70) o-Xylene	22.65	91	102230	2.533 ng		98
71) n-Nonane	22.91	43	24230	0.903 ng		92
72) 1,1,2,2-Tetrachloroethane	22.64	83	215	N.D.		
74) Cumene	23.41	105	14767	0.290 ng		99
75) alpha-Pinene	23.90	93	1568871	60.032 ng		86
76) n-Propylbenzene	24.05	91	46799	0.730 ng	#	68
77) 3-Ethyltoluene	24.17	105	103891	2.132 ng		99
78) 4-Ethyltoluene	24.22	105	44140	0.935 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	43587	1.095 ng		99

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28 am
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 02 08:53:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

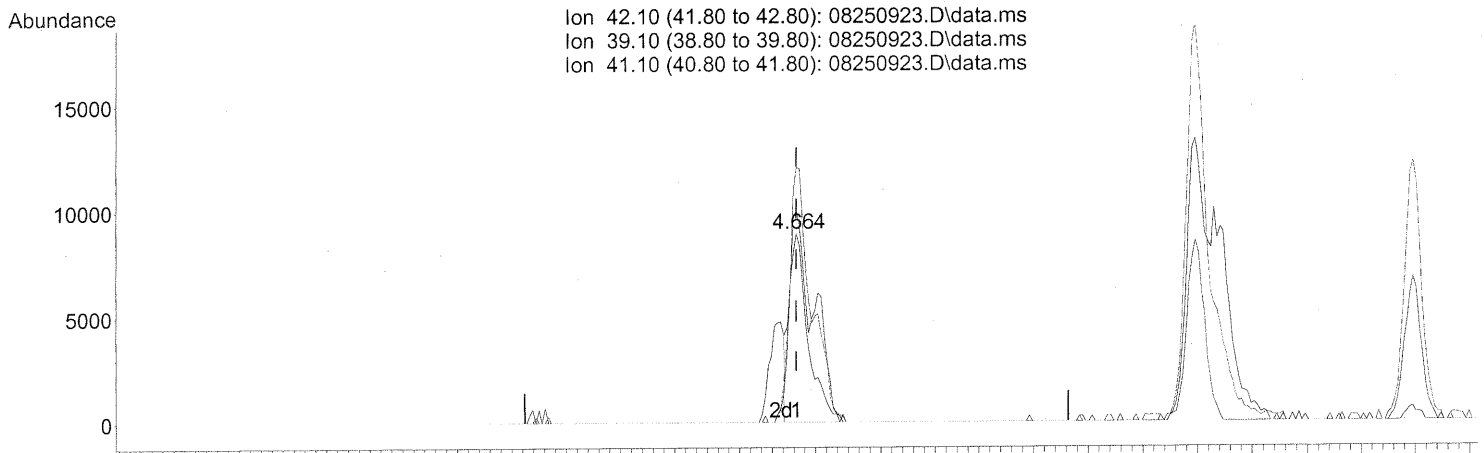
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	2765	0.130	ng	97
81) 2-Ethyltoluene	24.55	105	41365	0.842	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	145454	3.582	ng	89
83) n-Decane	24.93	57	53327	2.020	ng	86
84) Benzyl Chloride	24.99	91	2825	0.074	ng	75
85) 1,3-Dichlorobenzene	25.10	146	1584	0.077	ng	96
86) 1,4-Dichlorobenzene	25.10	146	1584	0.072	ng	96
87) sec-Butylbenzene	25.16	105	4036	0.074	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	71131	1.454	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	40789	0.986	ng	91
90) 1,2-Dichlorobenzene	25.52	146	3552	0.182	ng	96
91) d-Limonene	25.53	68	223562	12.947	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	41501	1.478	ng	# 69
94) 1,2,4-Trichlorobenzene	27.58	180	599	N.D.		
95) Naphthalene	27.72	128	82555	1.497	ng	97
96) n-Dodecane	27.69	57	40682	1.247	ng	95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	62735	3.478	ng	95
99) tert-Butylbenzene	24.82	119	17489	0.445	ng	# 56
100) n-Butylbenzene	25.86	91	17870	0.395	ng	# 45

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

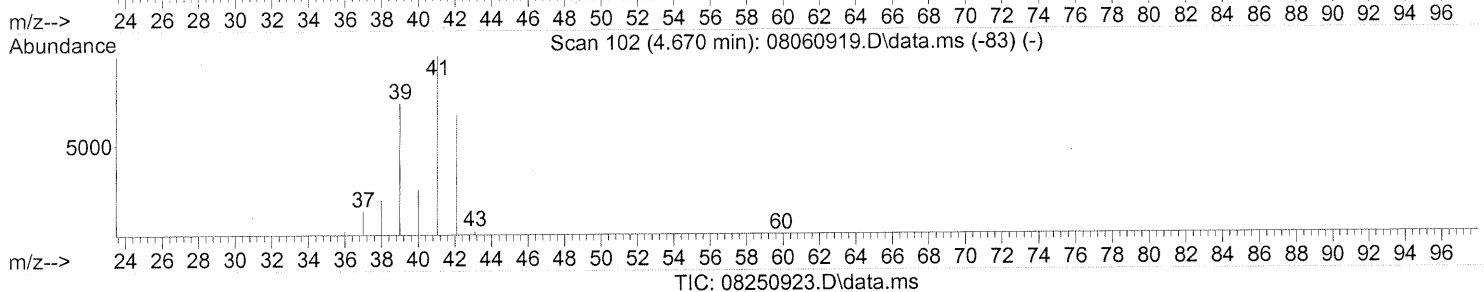
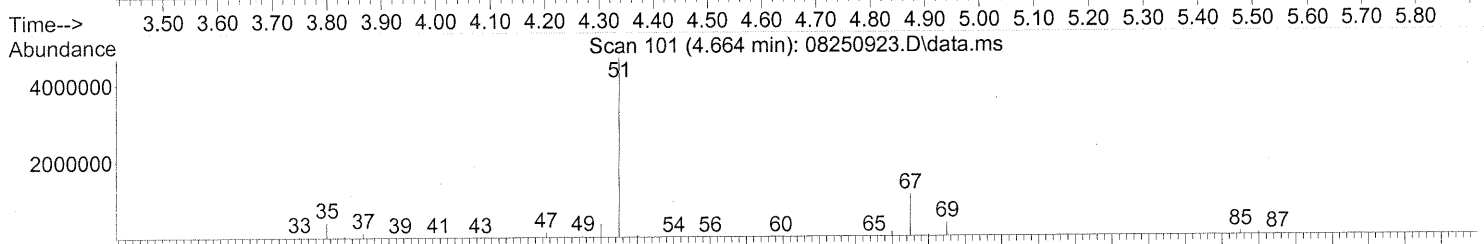
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28 am
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 14:13:05 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Ion 42.10 (41.80 to 42.80): 08250923.D\data.ms
 Ion 39.10 (38.80 to 39.80): 08250923.D\data.ms
 Ion 41.10 (40.80 to 41.80): 08250923.D\data.ms



(2) Propene (T)
 4.664min (+0.000) 1.52ng
 response 21685

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	143.63#
41.10	150.20	156.16
0.00	0.00	0.00

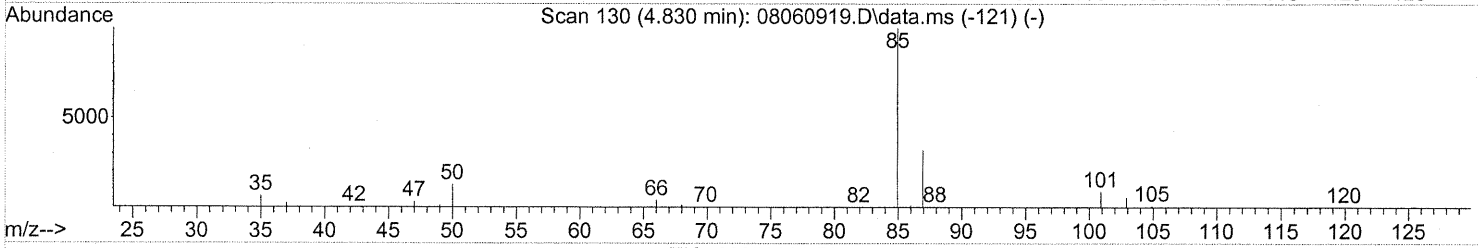
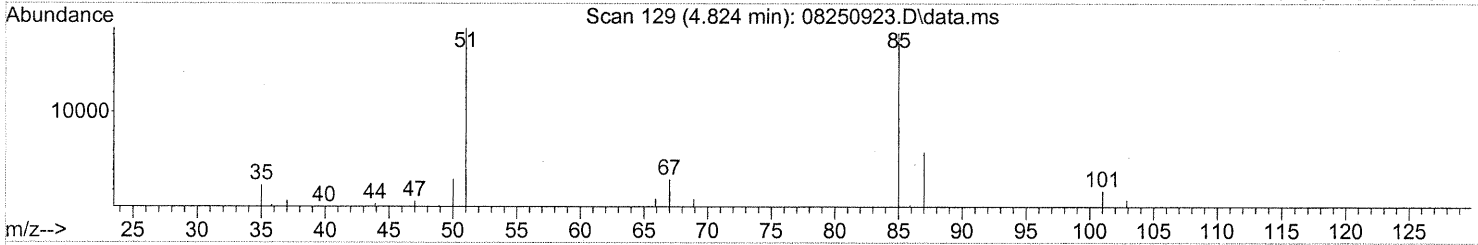
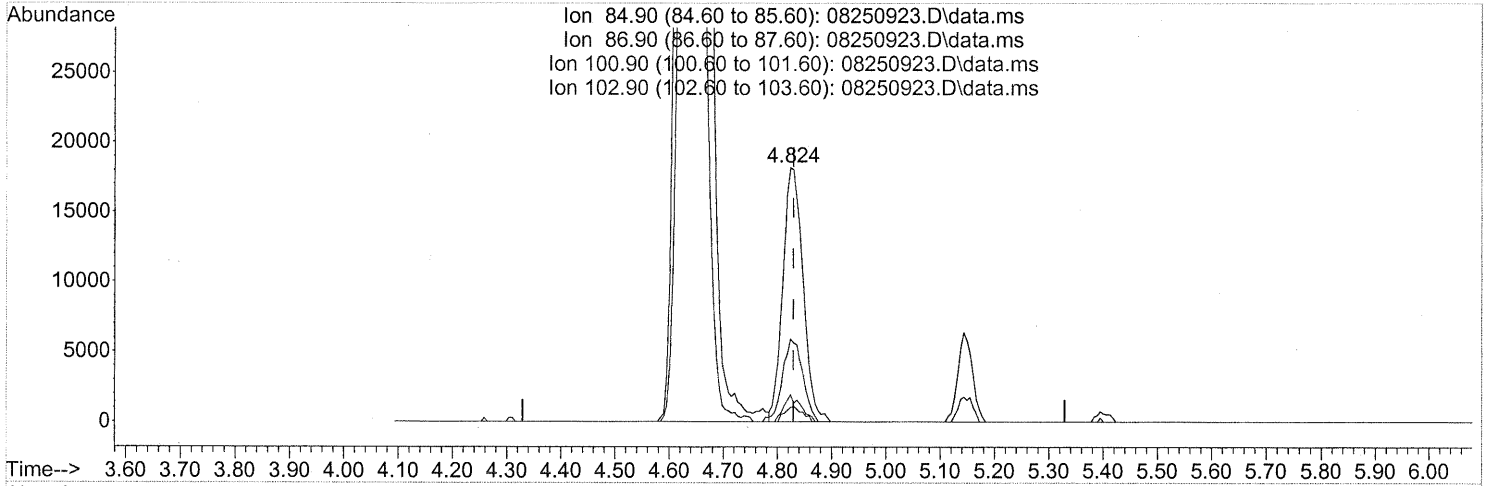
FP
 WA 9/11/09

9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 2.00ng

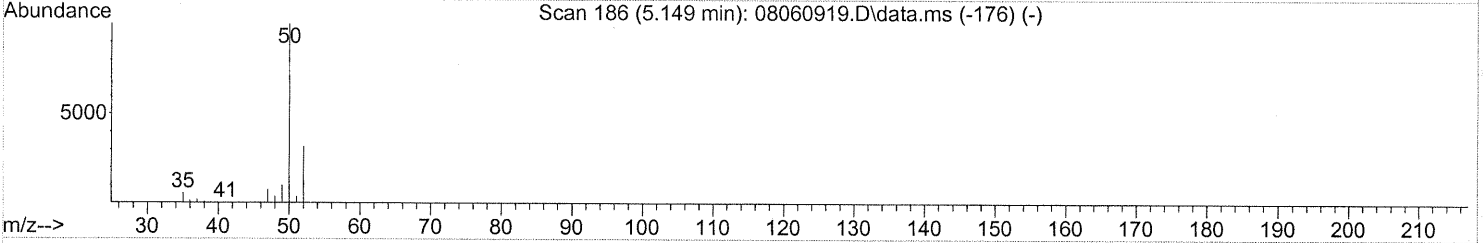
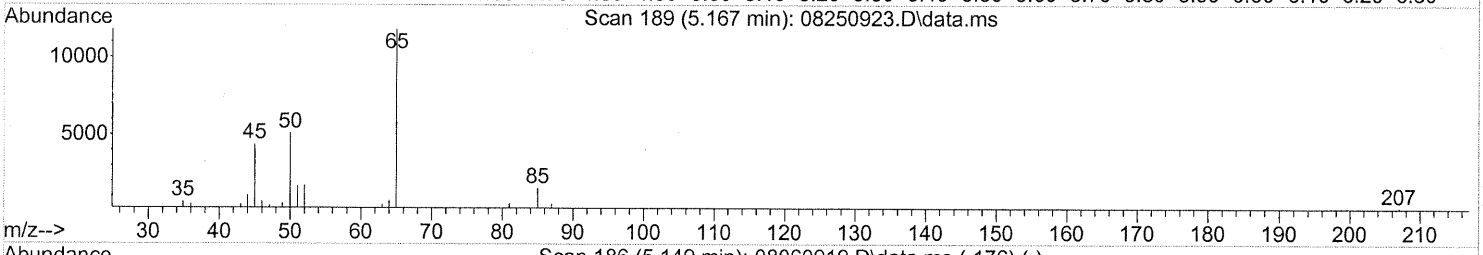
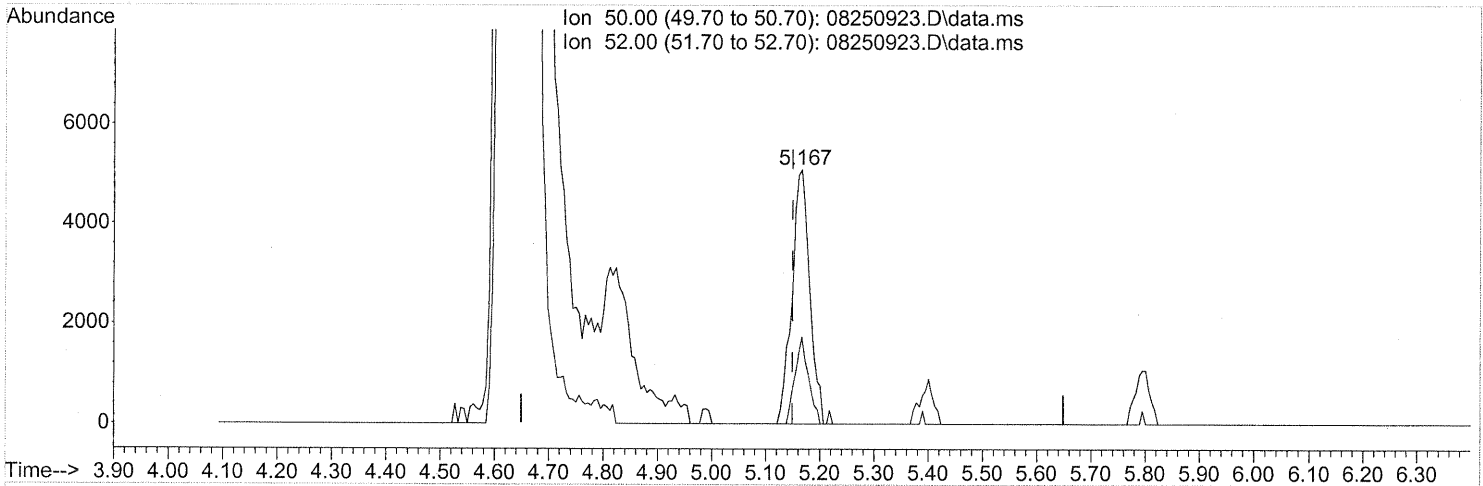
response 46858

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.42
100.90	8.80	8.73
102.90	5.20	5.07

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

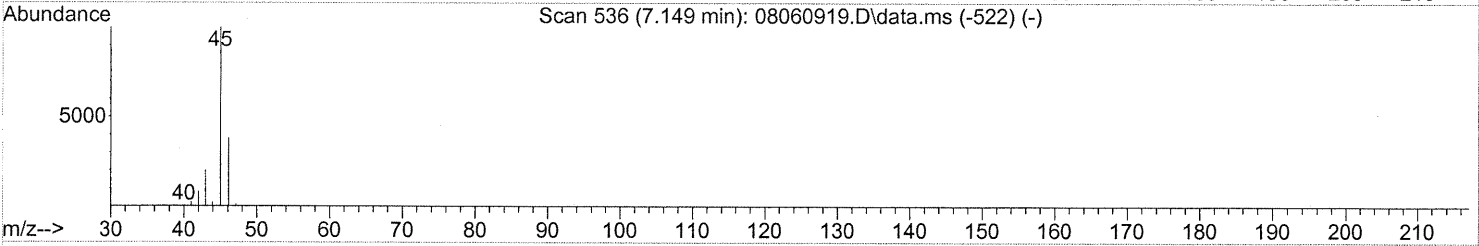
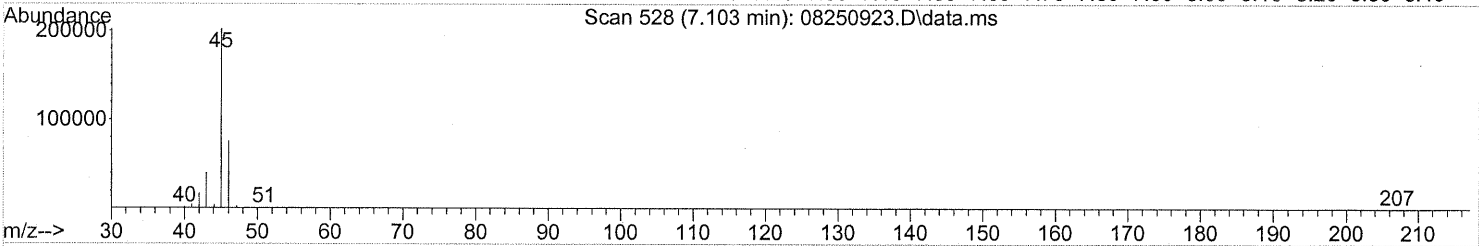
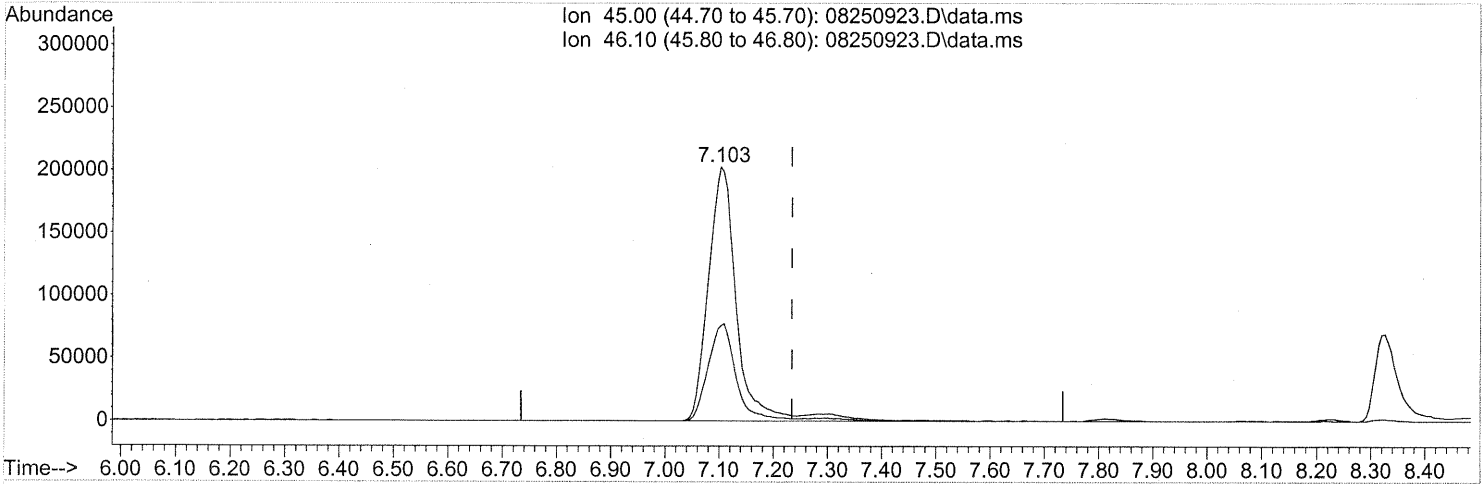
5.167min (+0.017) 0.74ng
 response 11627

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	25.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

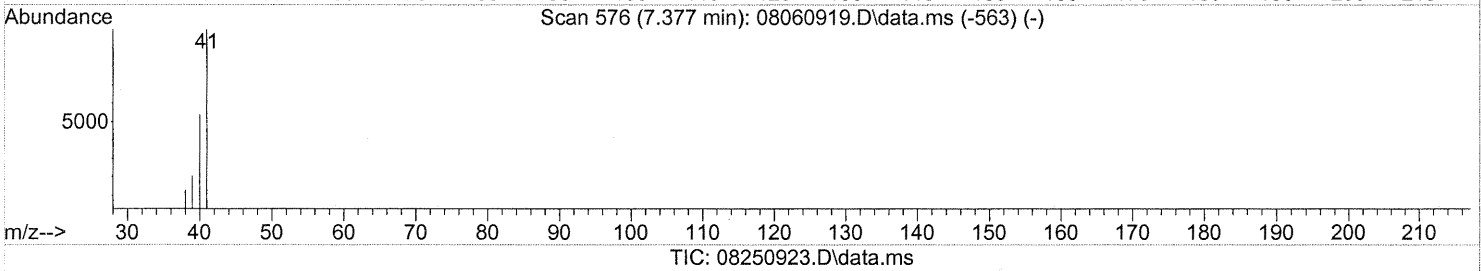
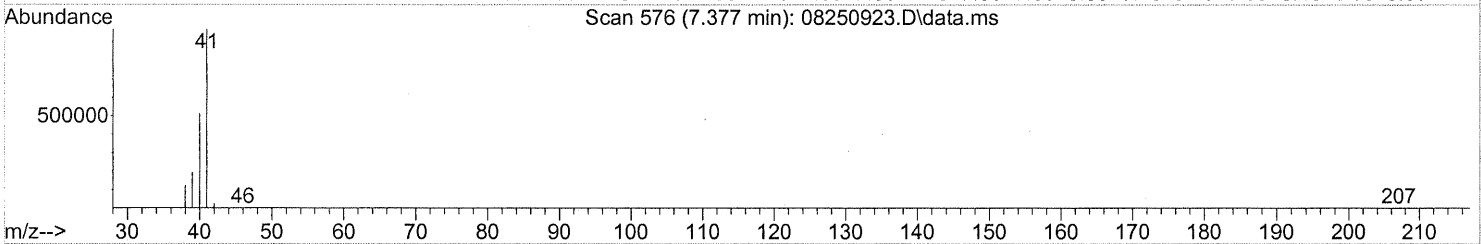
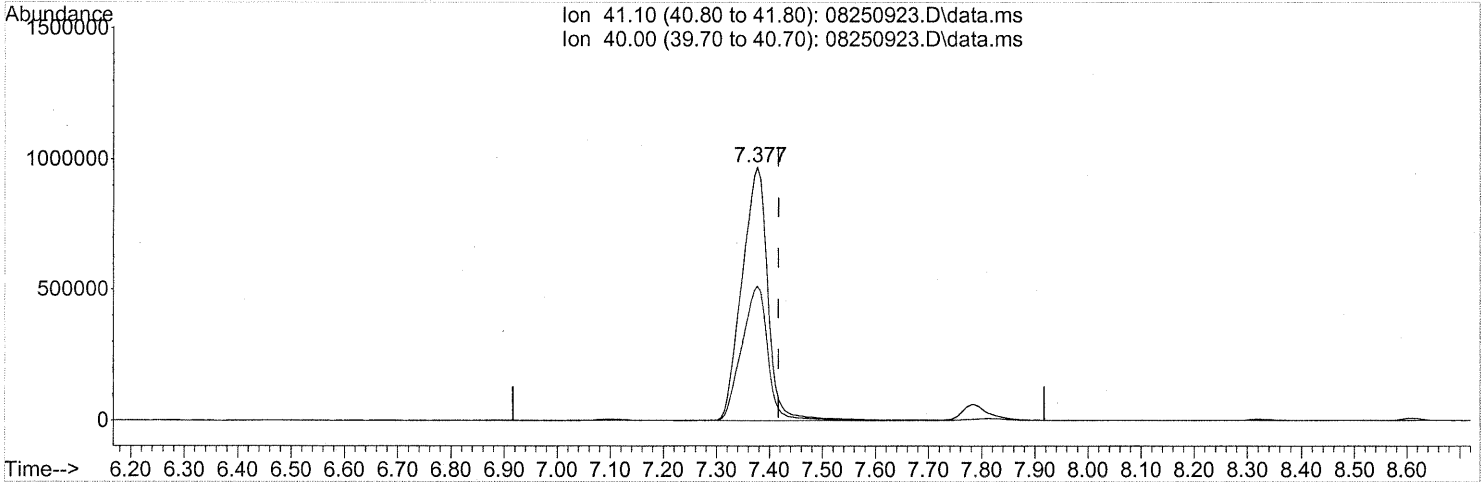
(10) Ethanol (T)
 7.103min (-0.131) 82.39ng
 response 747354

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



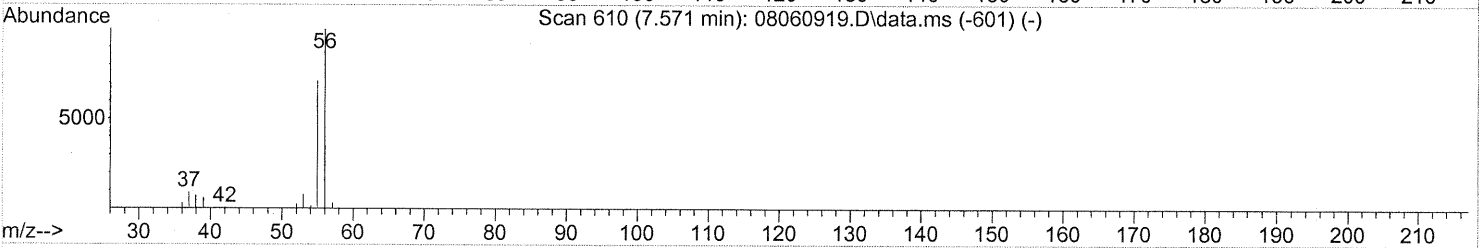
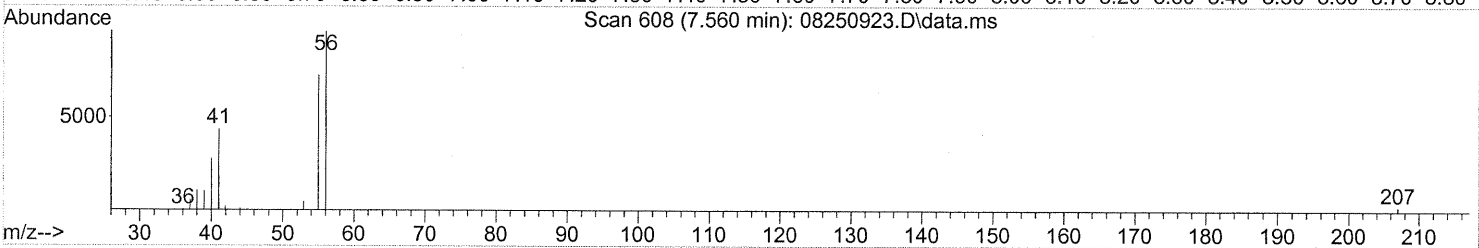
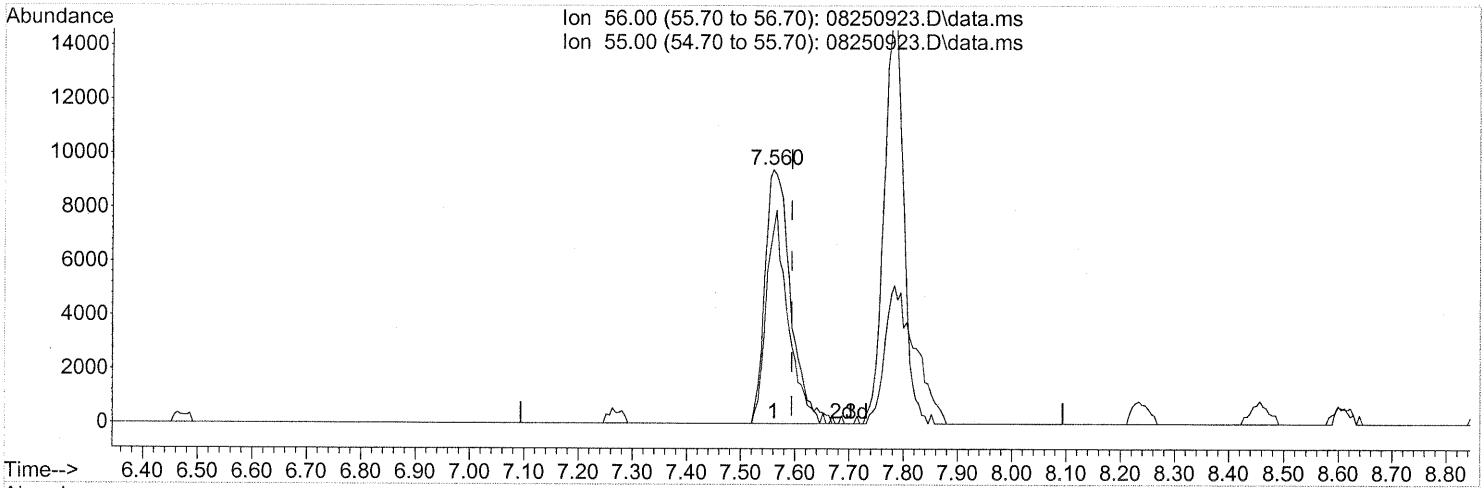
(11) Acetonitrile (T)
 7.377min (-0.040) 123.62ng
 response 3284053

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(12) Acrolein (T)

7.560min (-0.034) 4.49ng

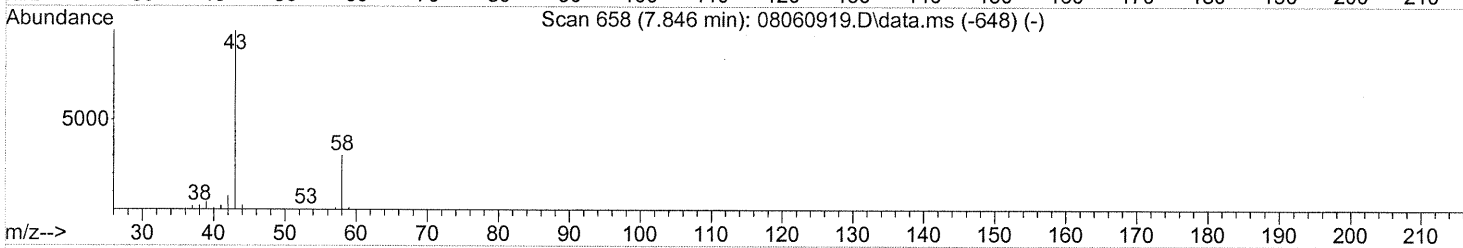
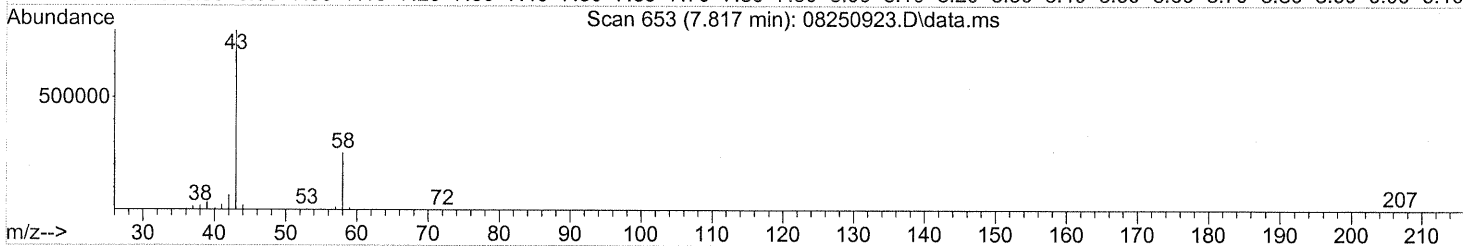
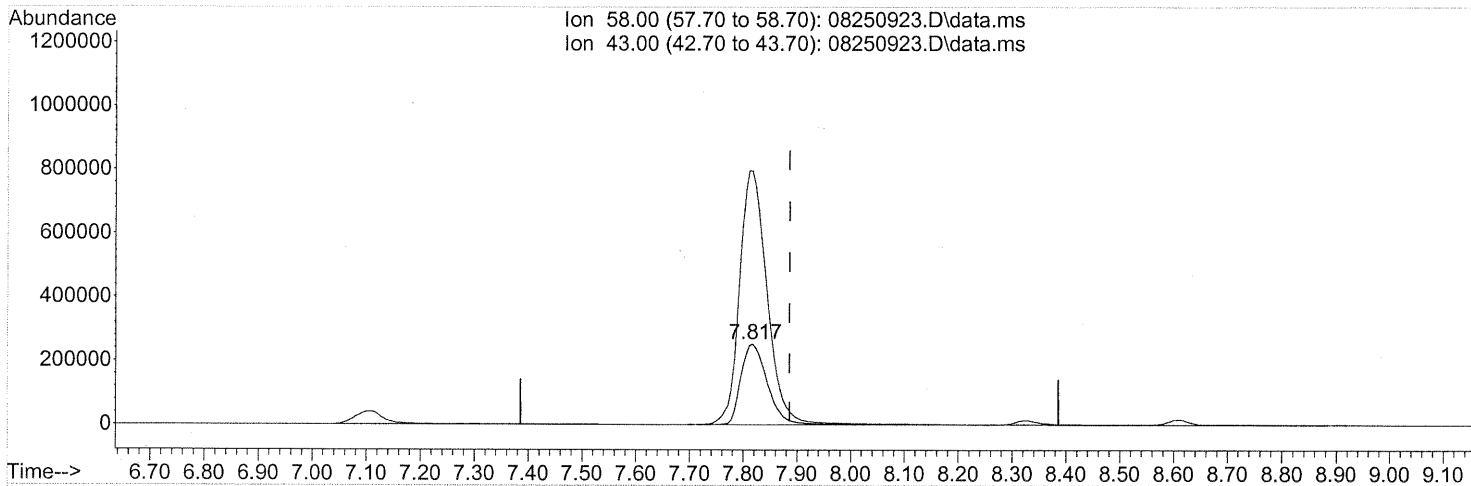
response 31019

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	71.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

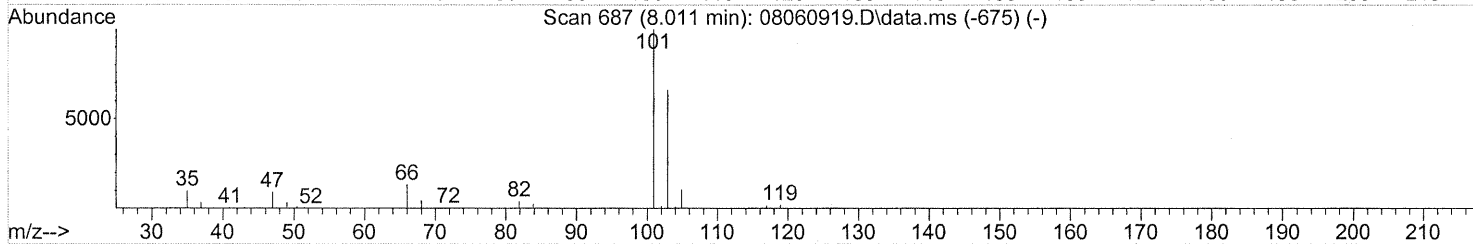
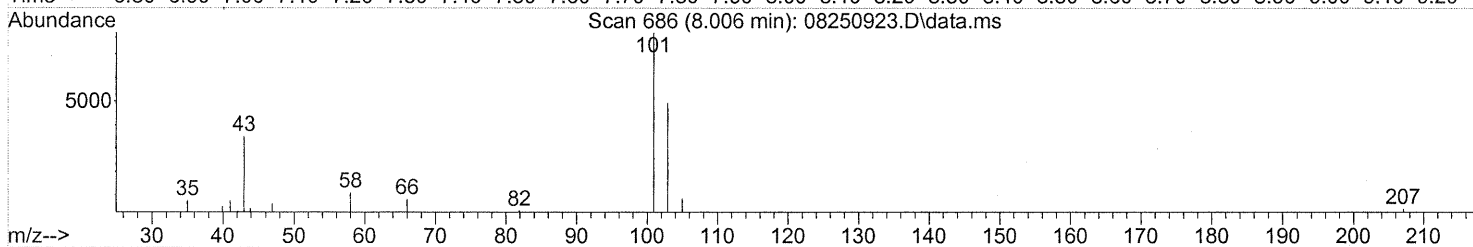
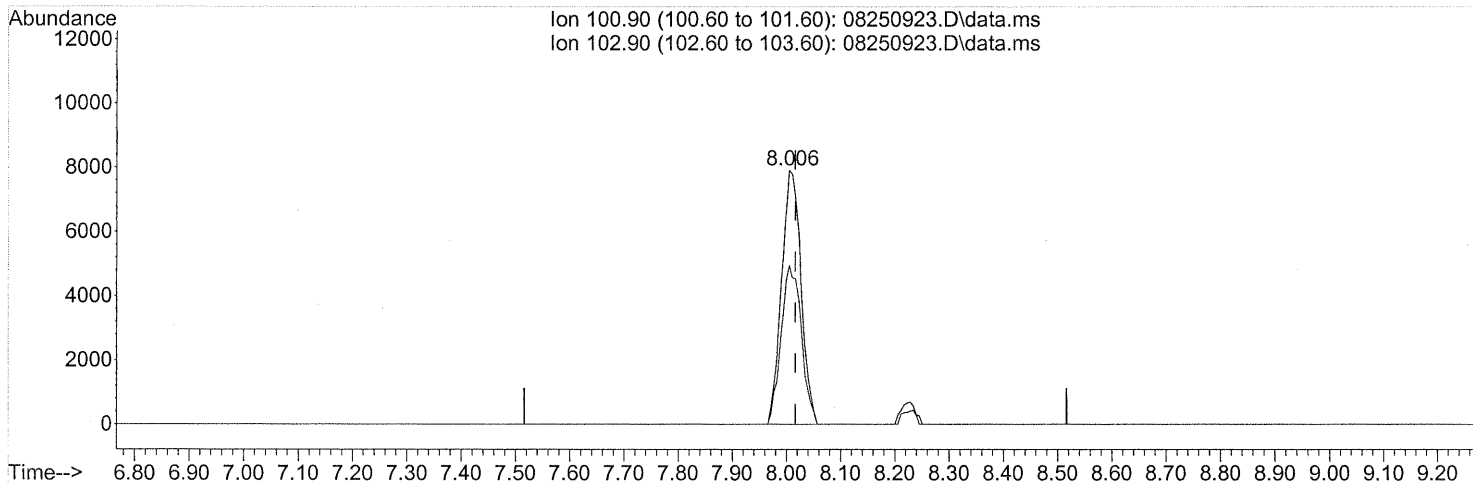
(13) Acetone (T)
 7.817min (-0.069) 100.50ng
 response 860140

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	330.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.011) 0.93ng

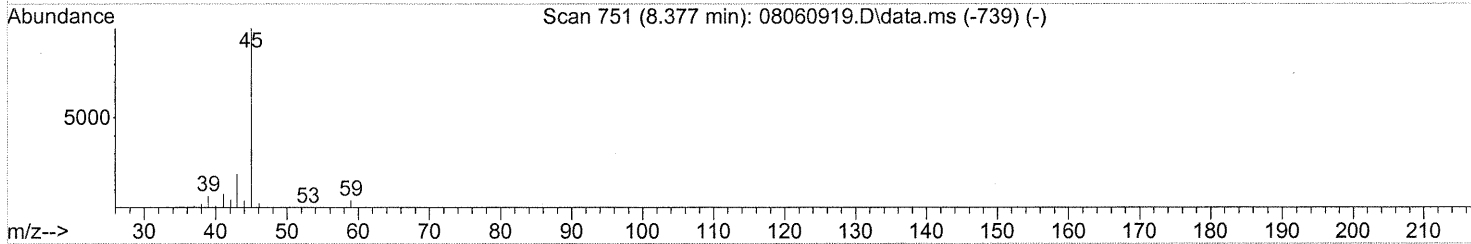
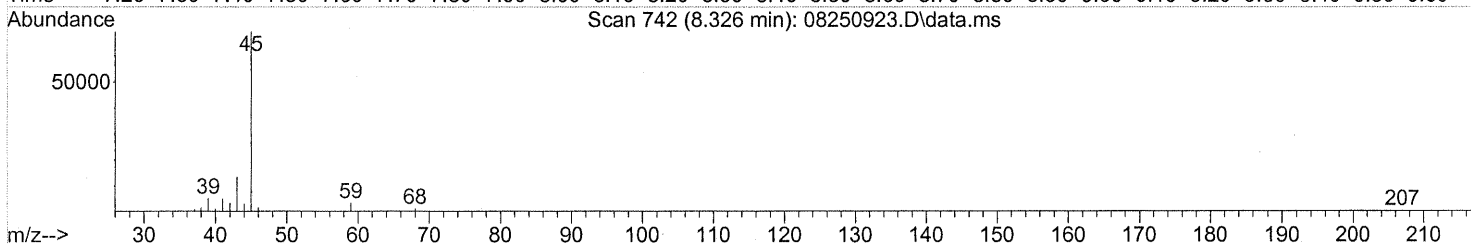
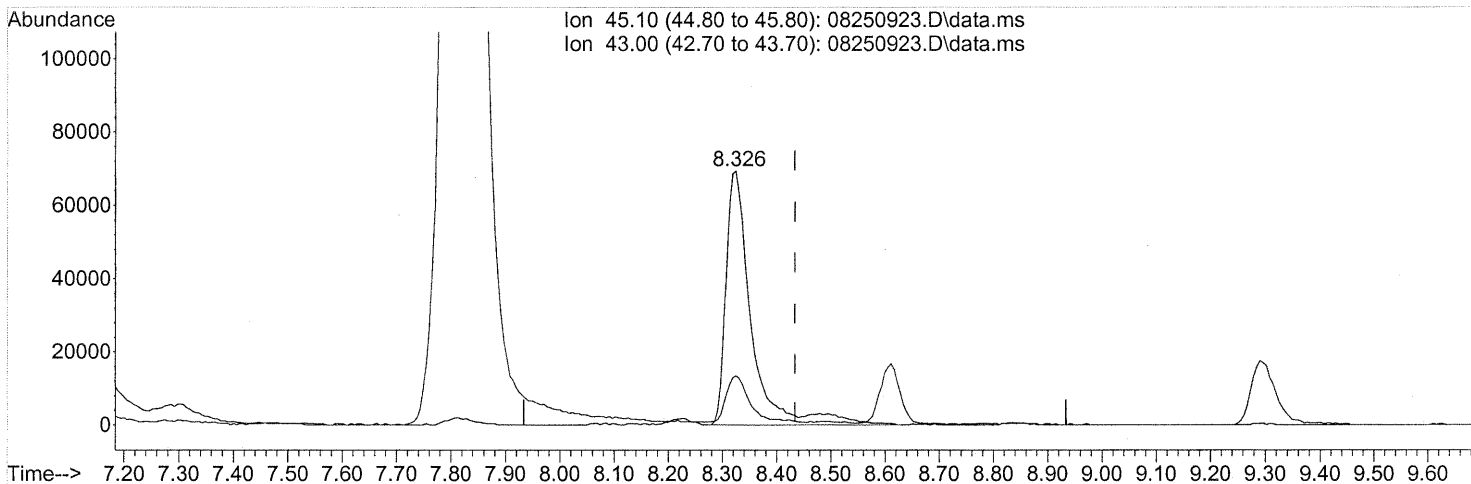
response 19698

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

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

8.326min (-0.108) 6.74ng

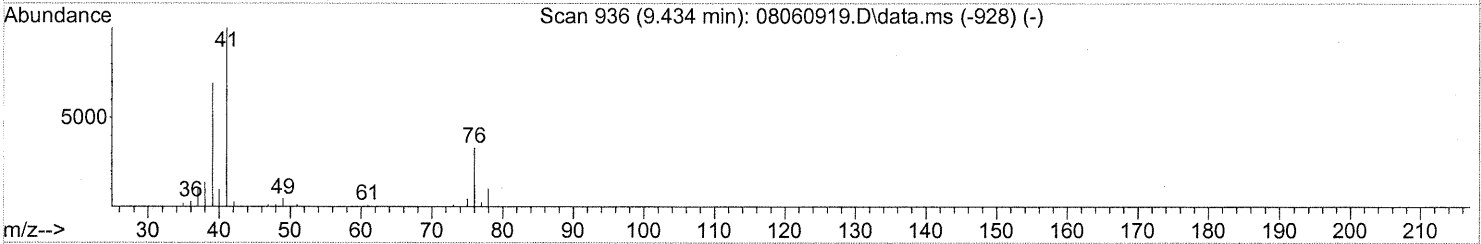
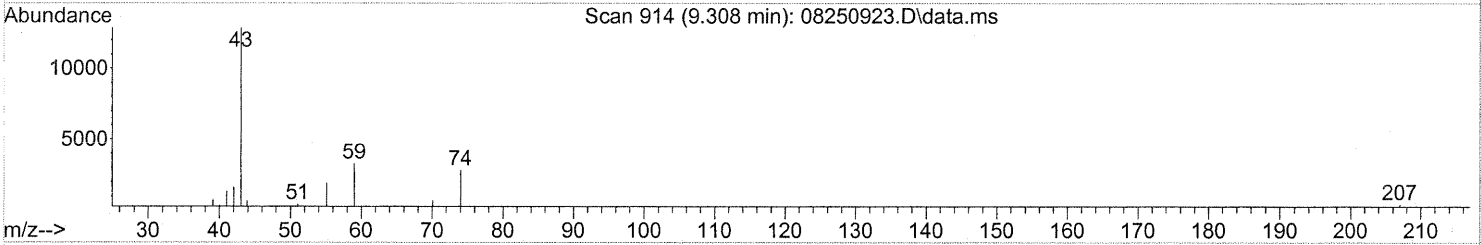
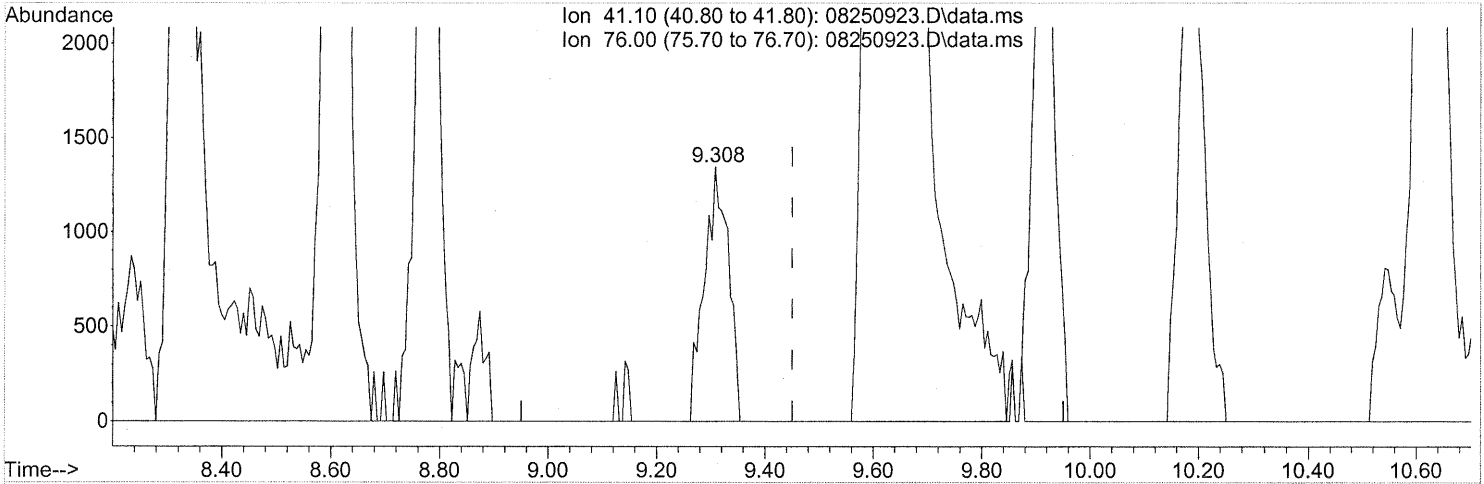
response 226596

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 01 10:41:26 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.308min (-0.143) 0.19ng

response 4156

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

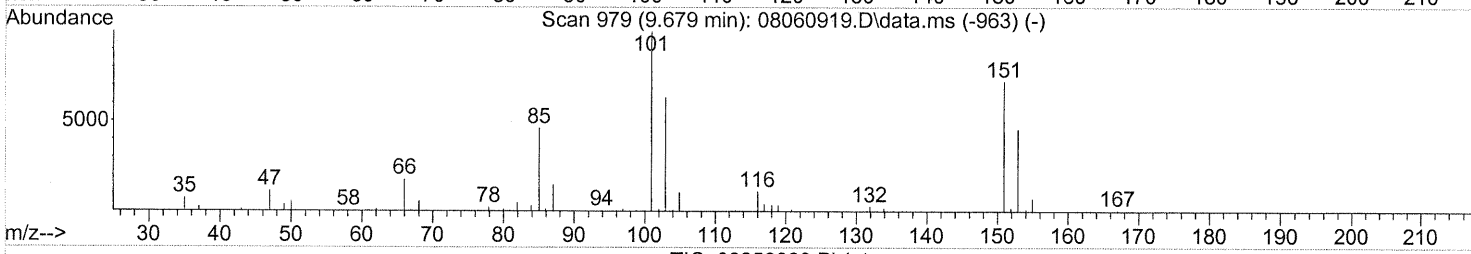
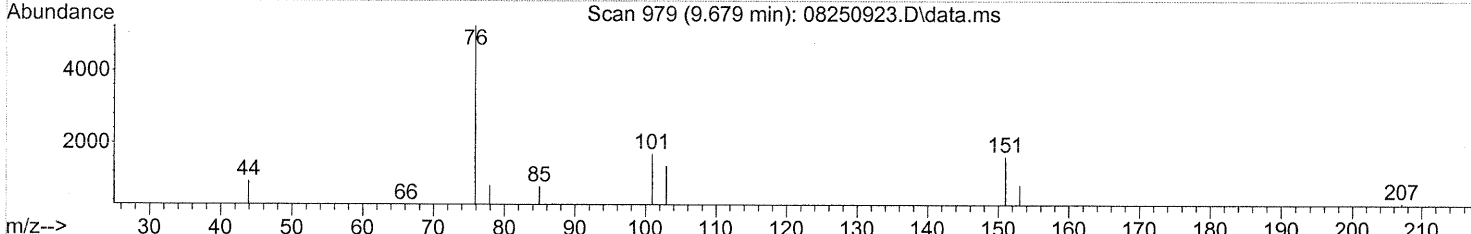
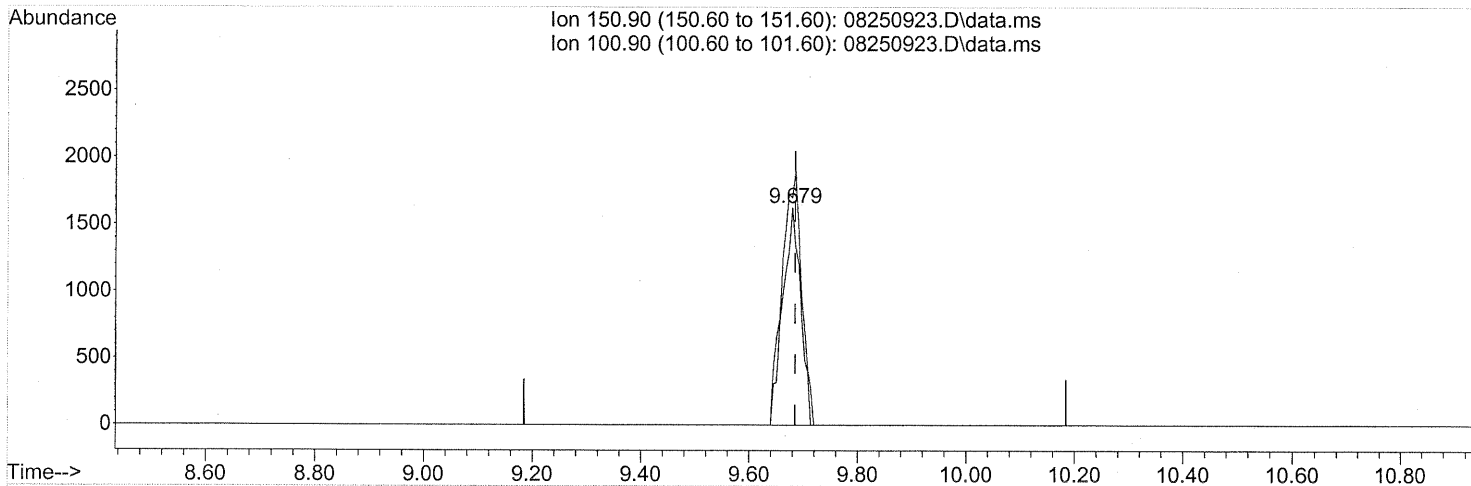
FD
179/1109

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.48ng

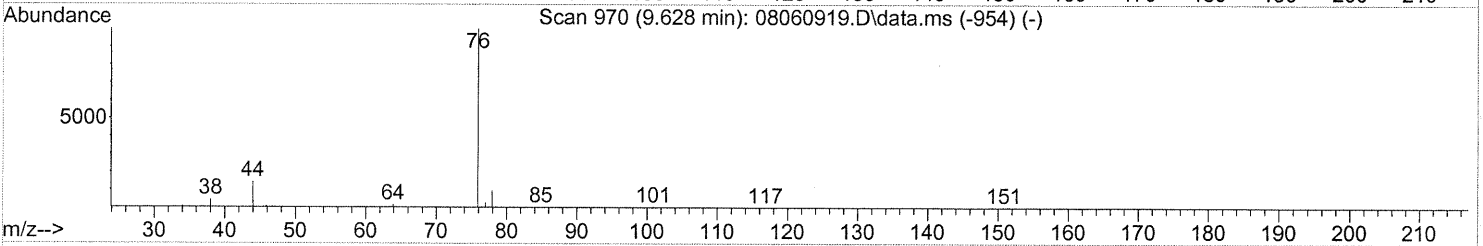
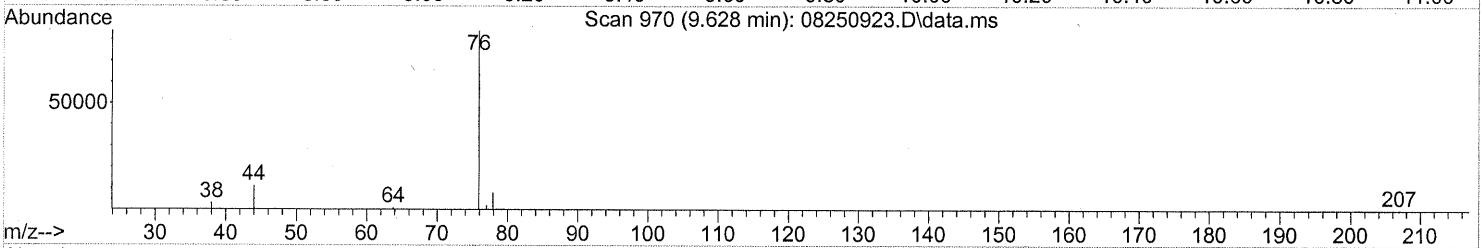
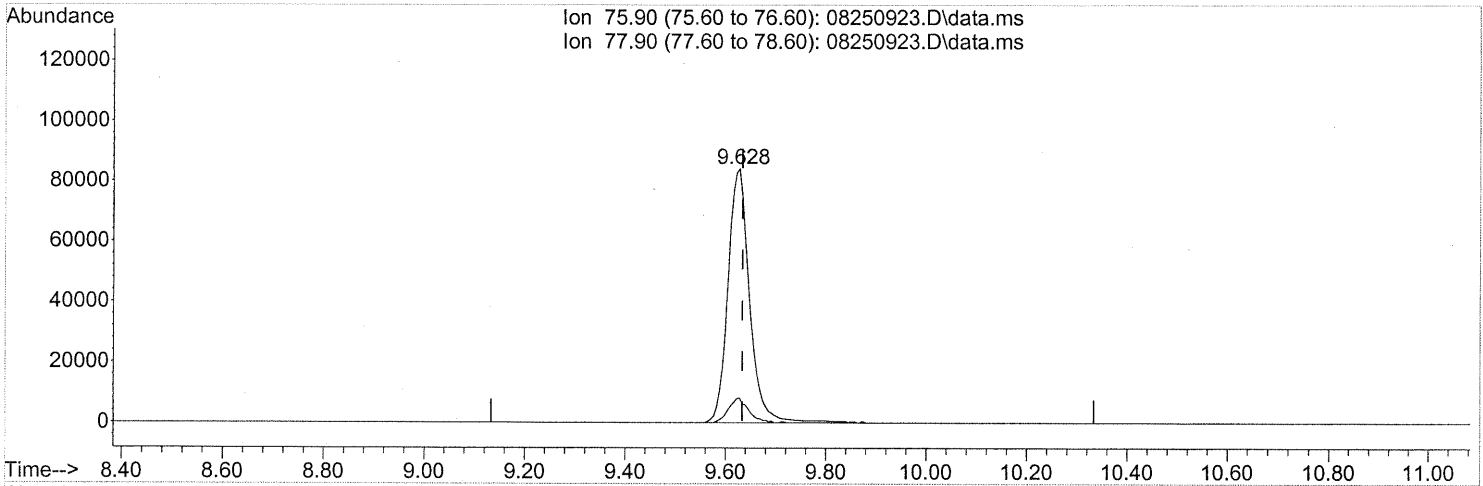
response 3668

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	129.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(22) Carbon Disulfide (T)

9.628min (-0.006) 6.17ng

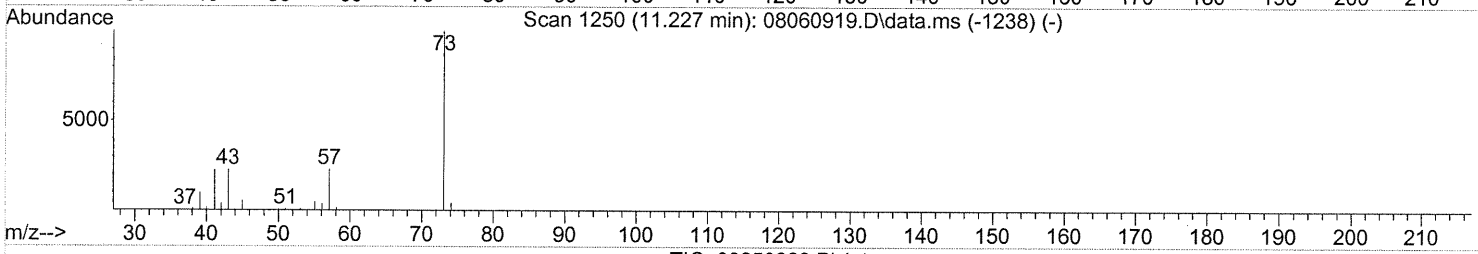
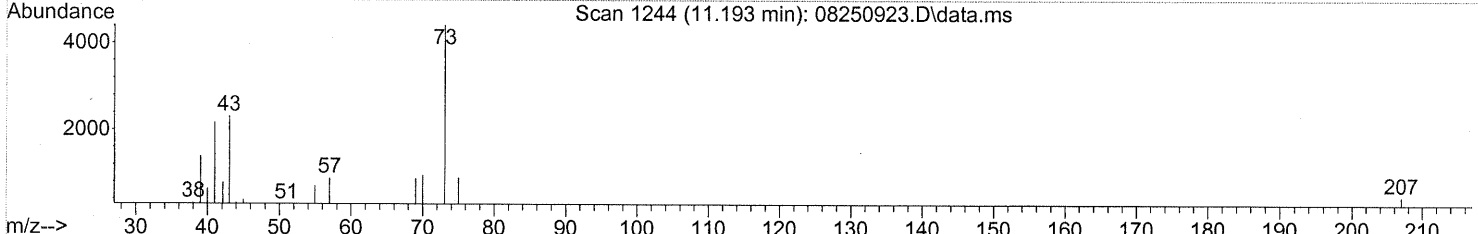
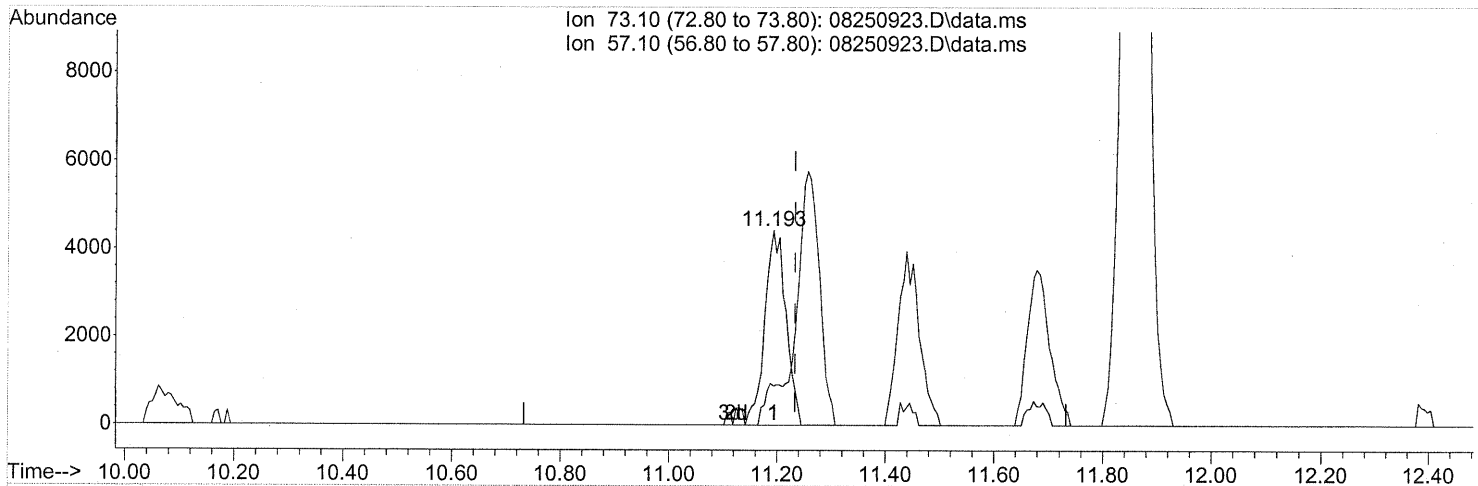
response 249871

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.193min (-0.040) 0.37ng

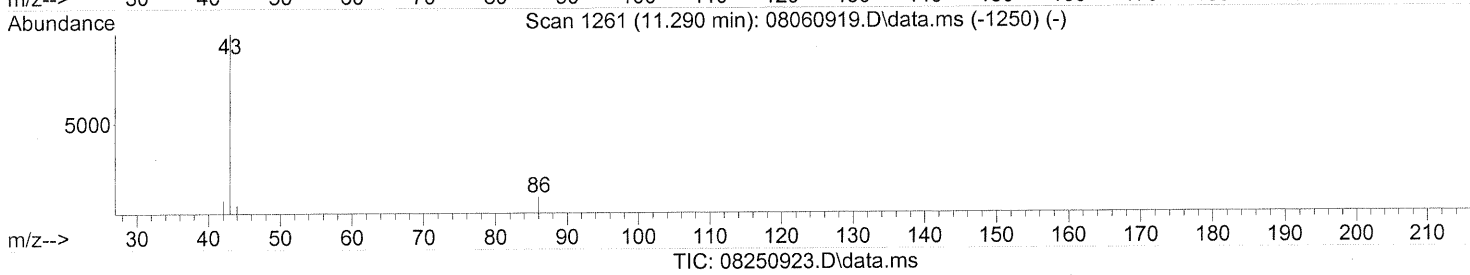
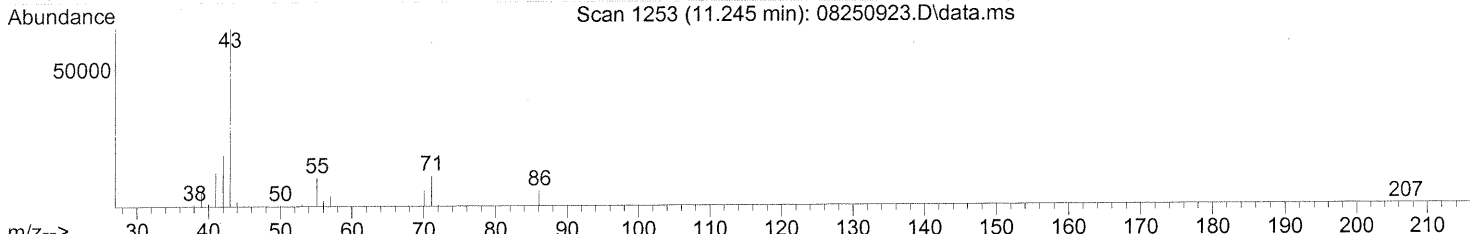
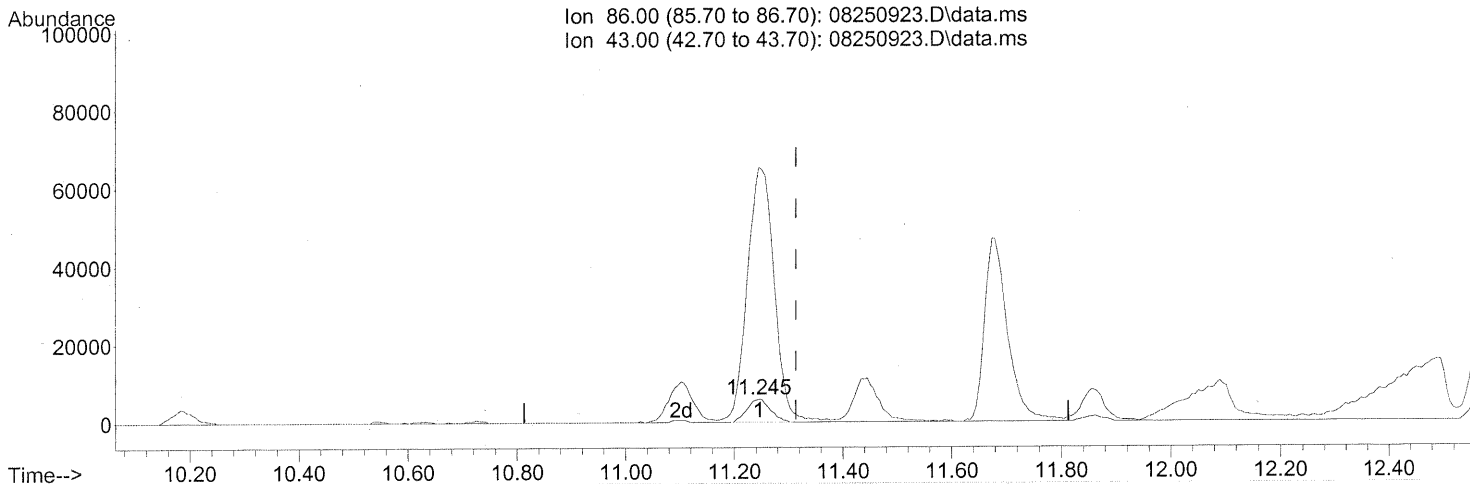
response 11966

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	8.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250923.D
Acq On : 26 Aug 2009 2:28 am
Operator : WA/CC
Sample : P0902876-006 (1000mL)
Misc : Environmental Health 102470
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 02 08:51:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.245min (-0.068) 9.90ng

response 17239

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1274.74#
0.00	0.00	0.00
0.00	0.00	0.00

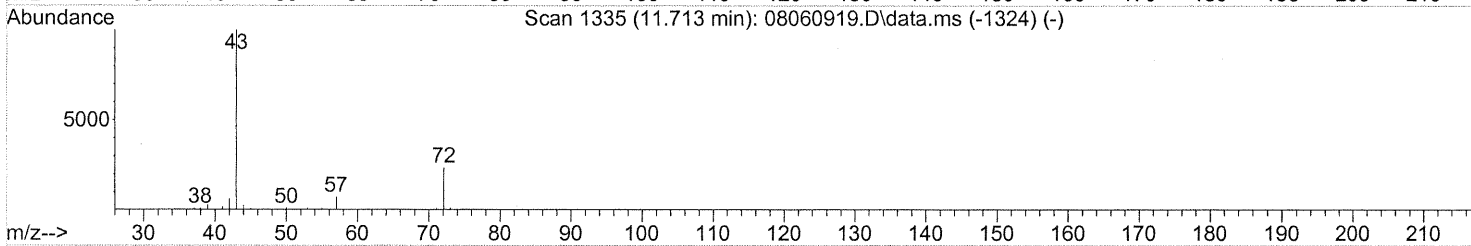
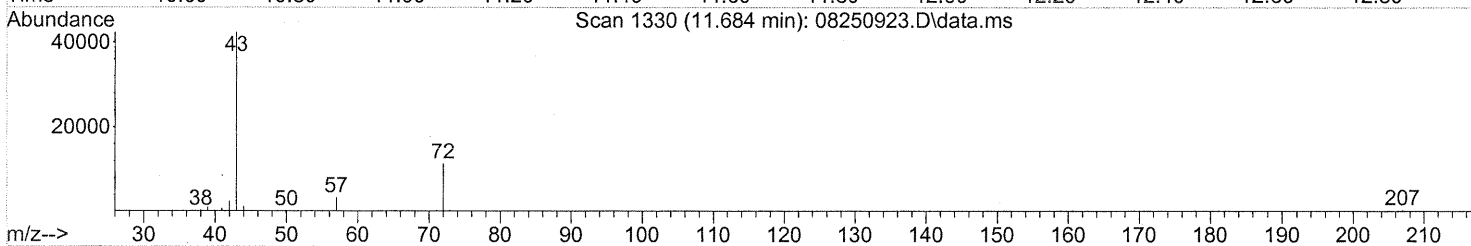
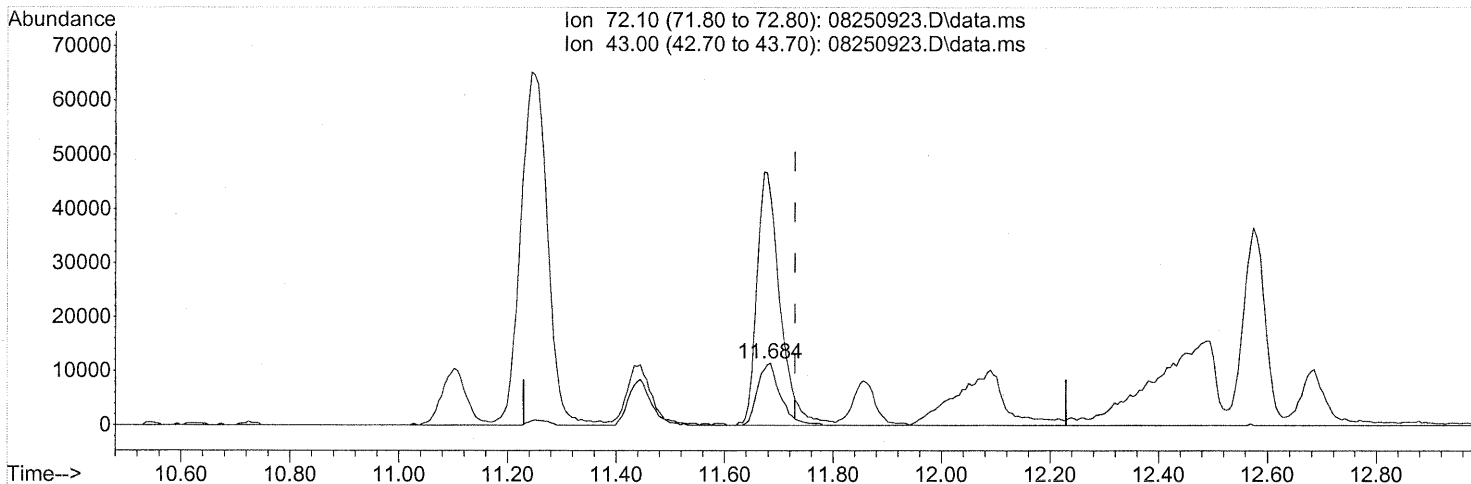
FP
11/9/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

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

11.684min (-0.046) 4.29ng

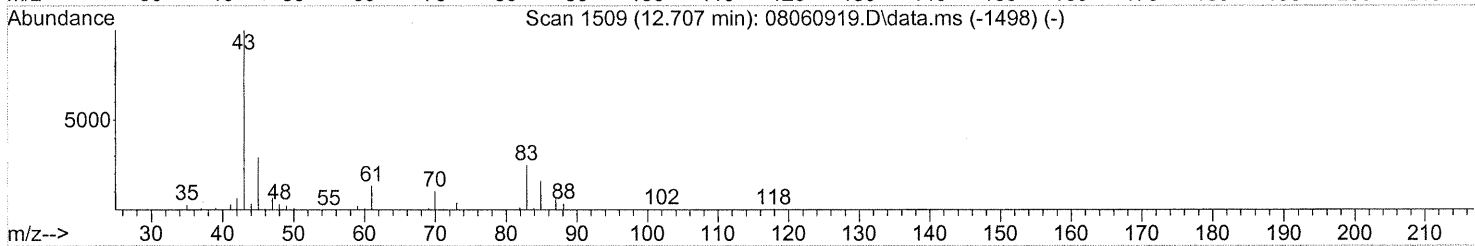
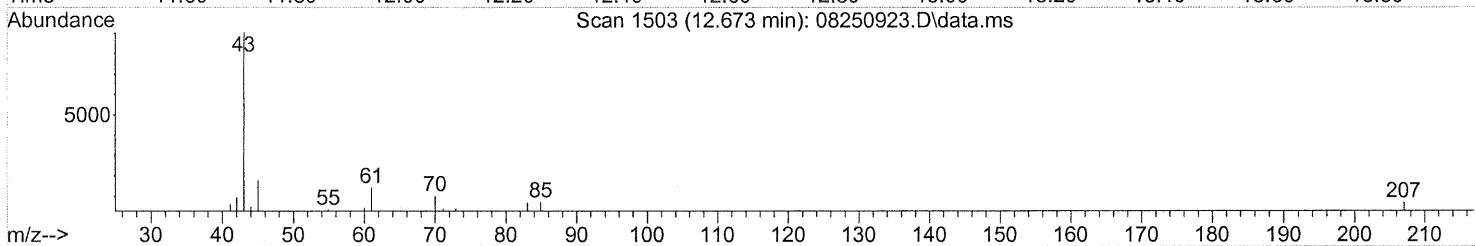
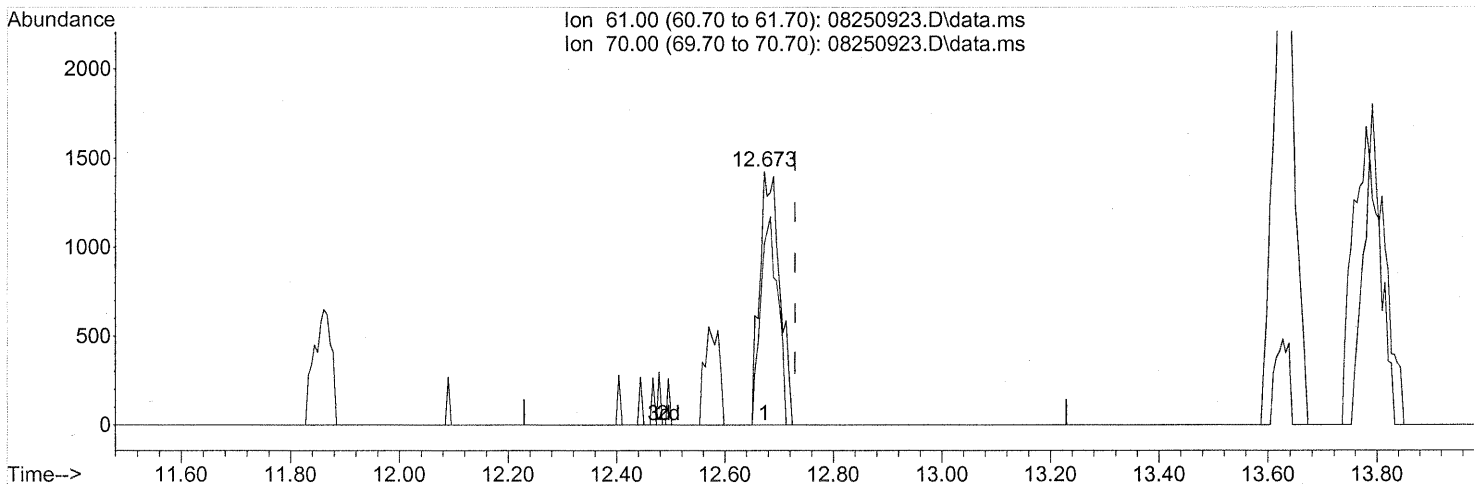
response 33175

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	416.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

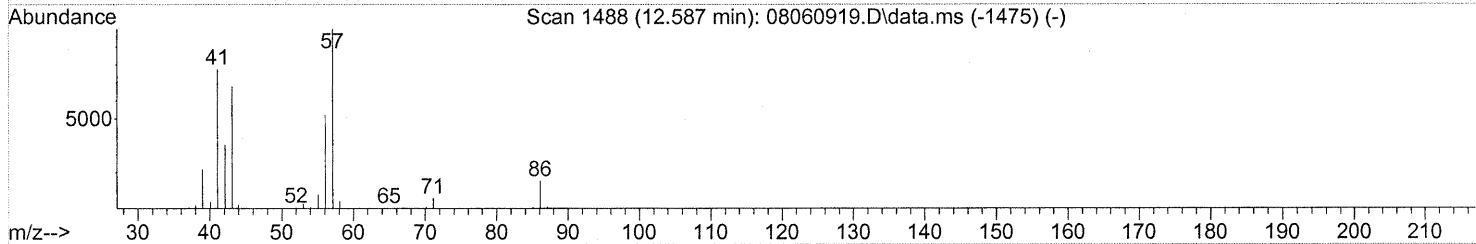
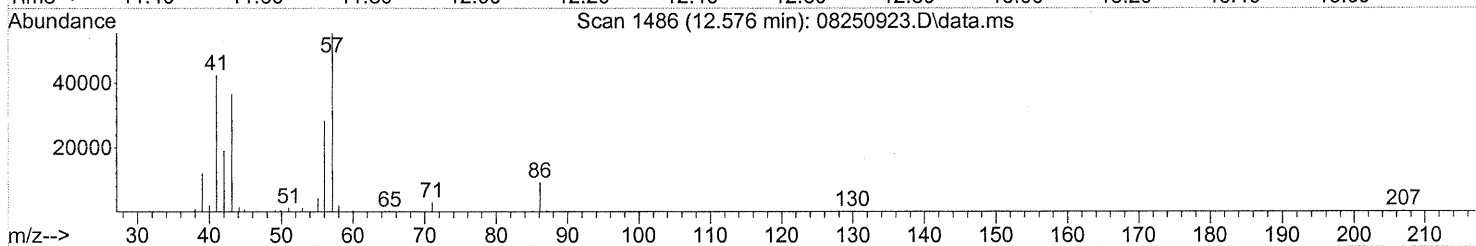
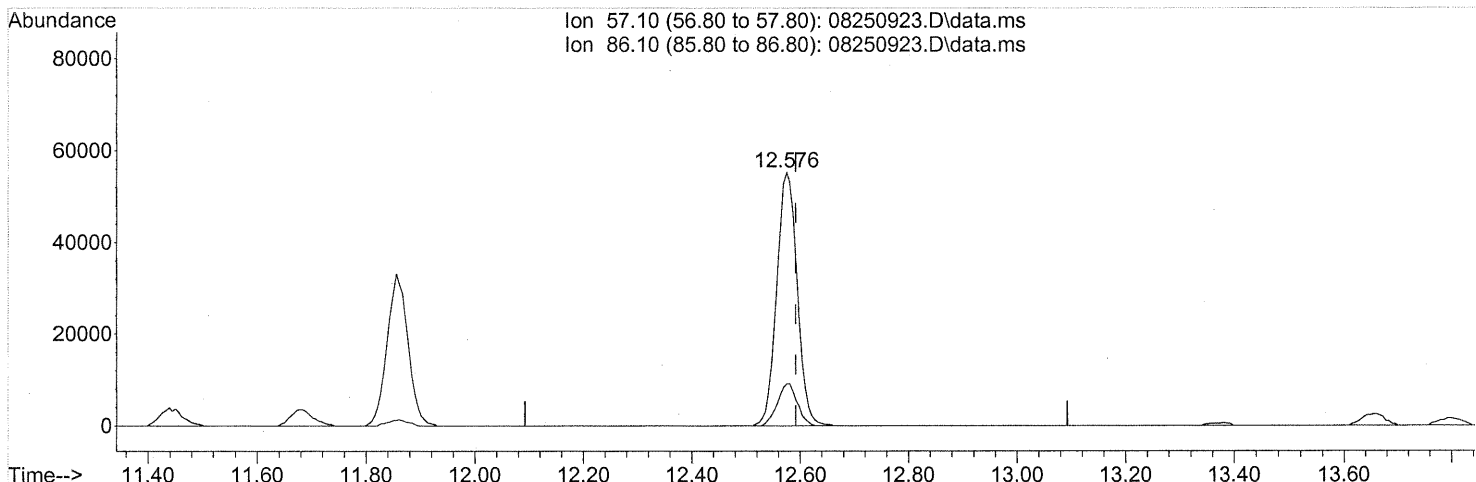
(30) Ethyl Acetate (T)
 12.673min (-0.057) 0.92ng
 response 3690

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	70.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

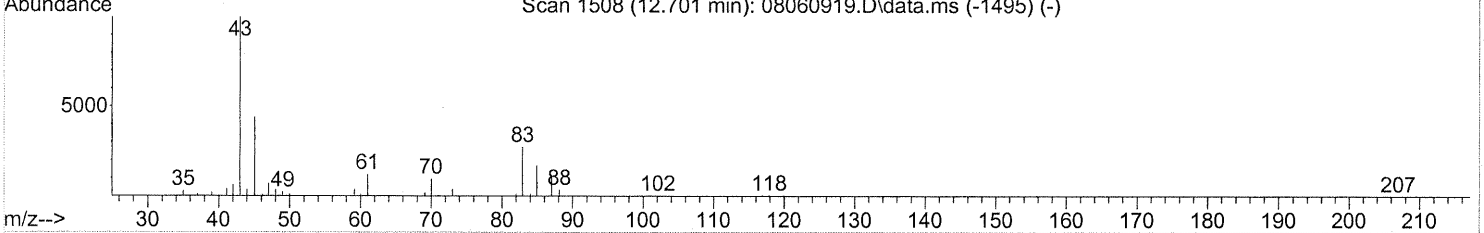
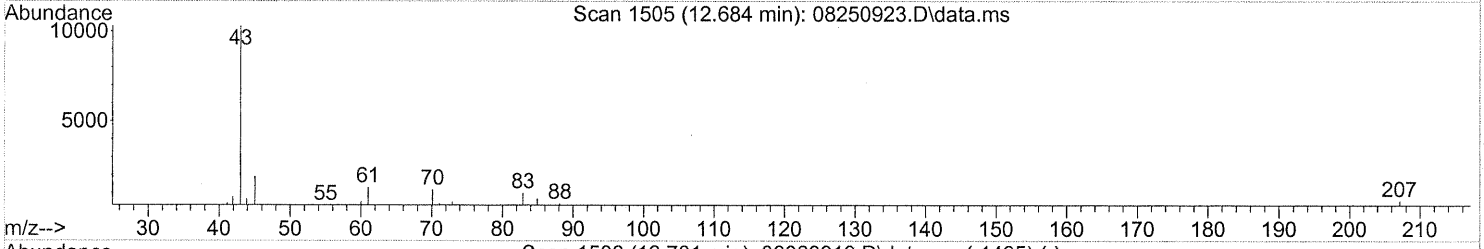
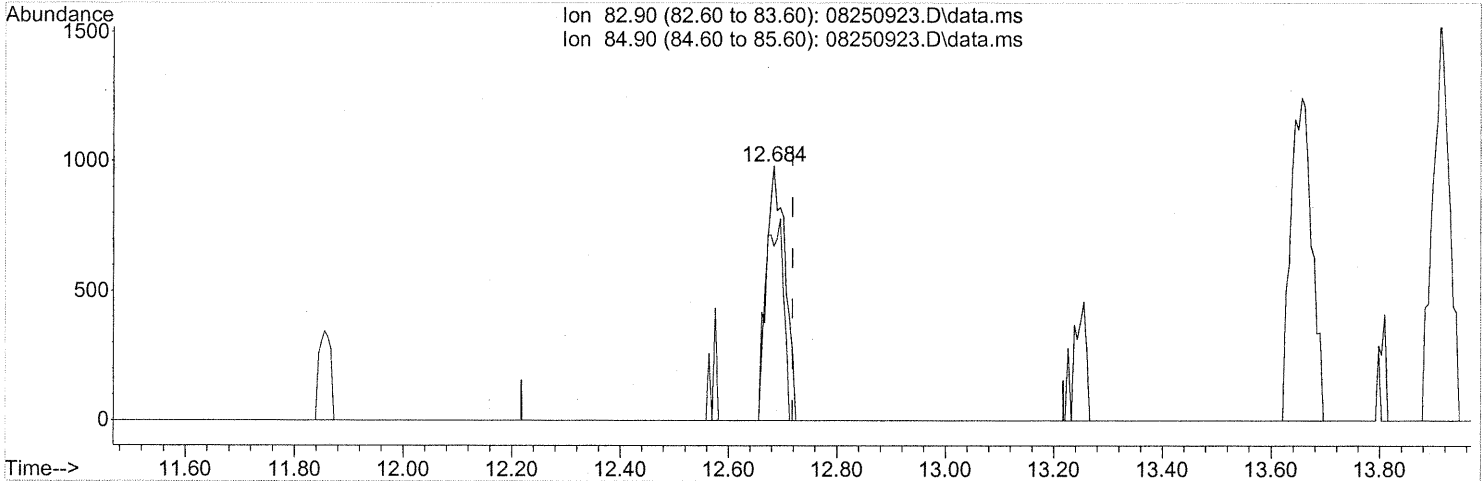
(31) n-Hexane (T)
 12.576min (-0.017) 7.06ng
 response 145422

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

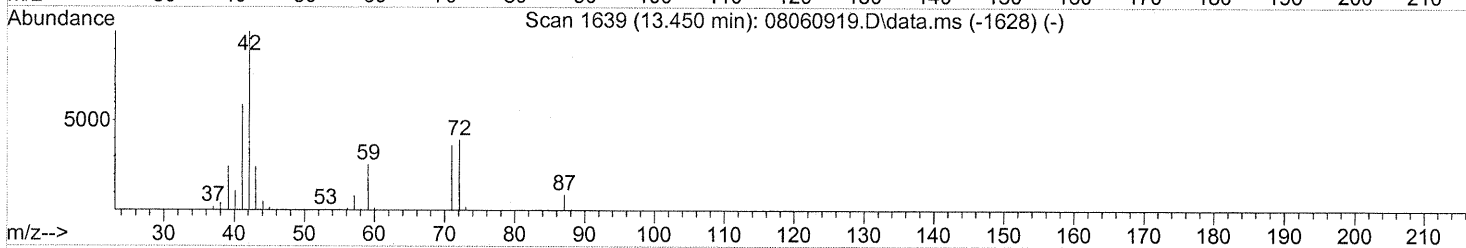
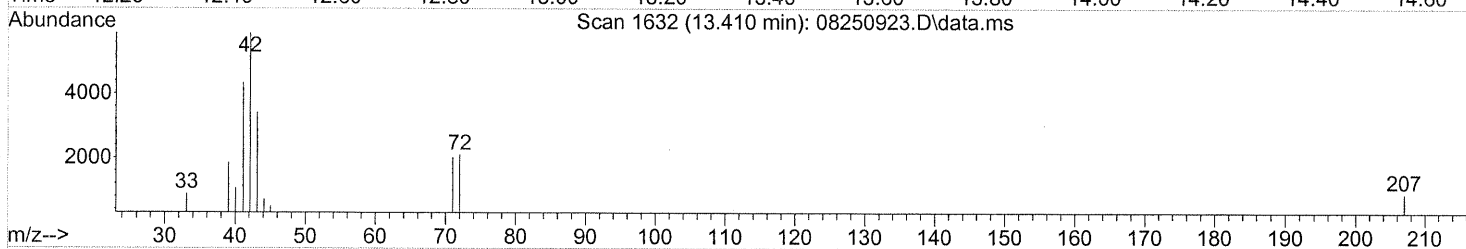
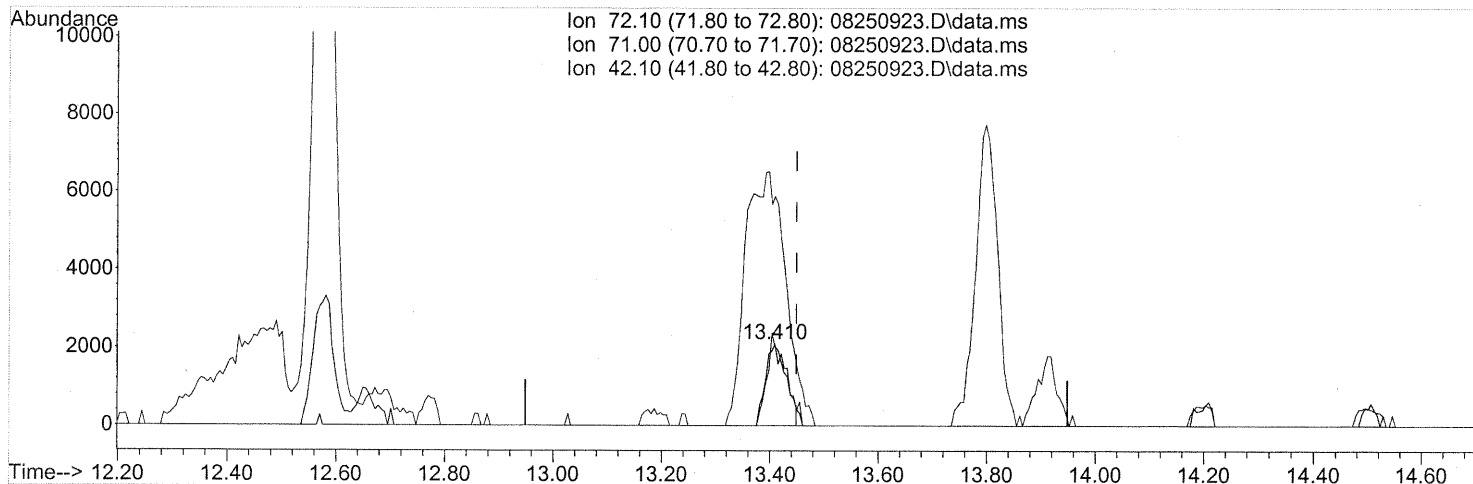
(32) Chloroform (T)
 12.684min (-0.034) 0.13ng
 response 2345

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	75.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.410min (-0.039) 0.70ng

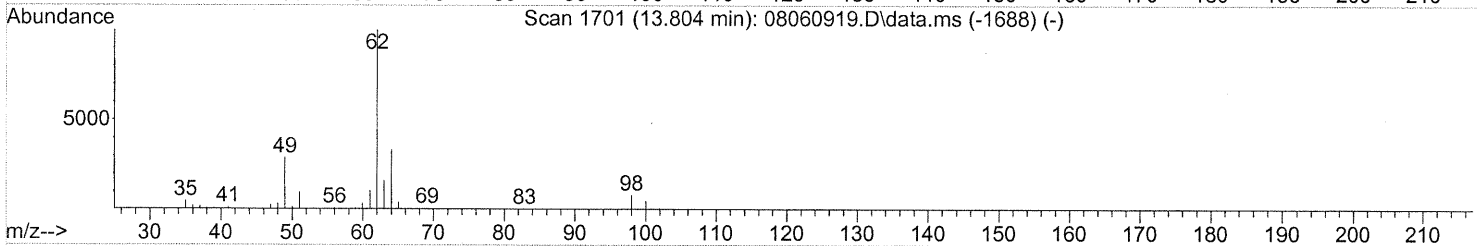
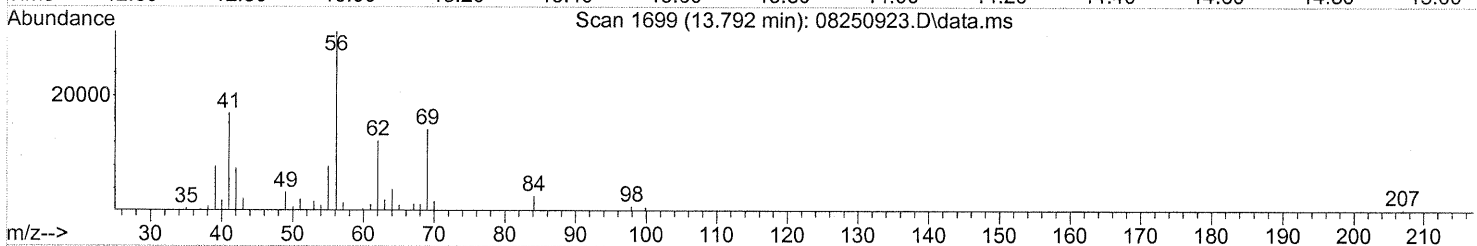
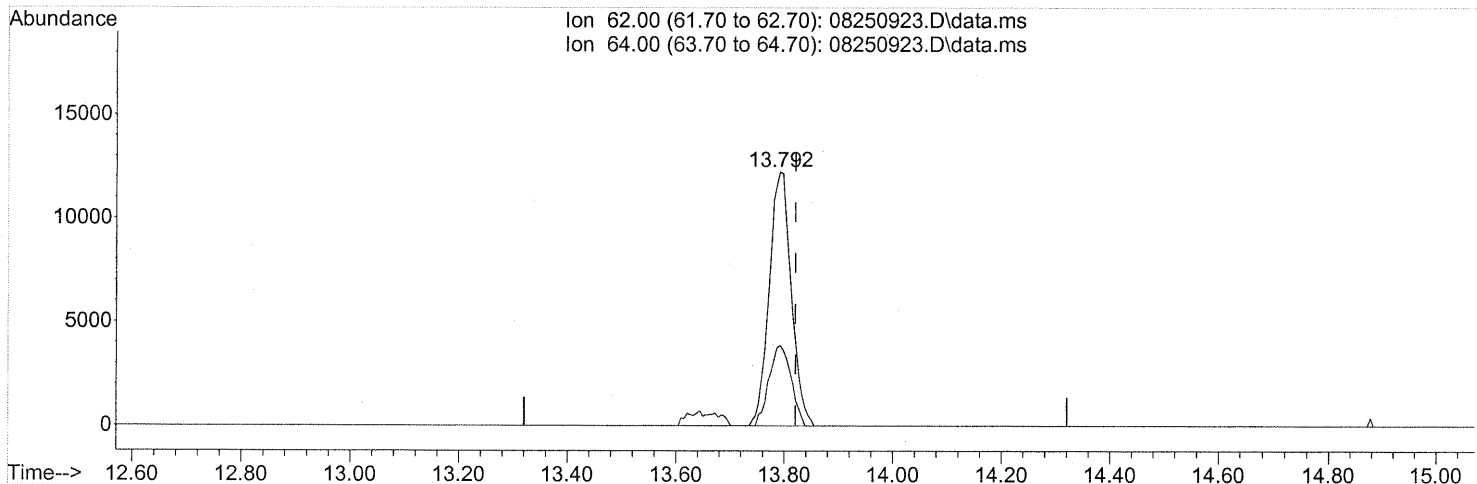
response 5788

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	98.19
42.10	253.40	578.06#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(36) 1,2-Dichloroethane (T)

13.792min (-0.028) 2.08ng

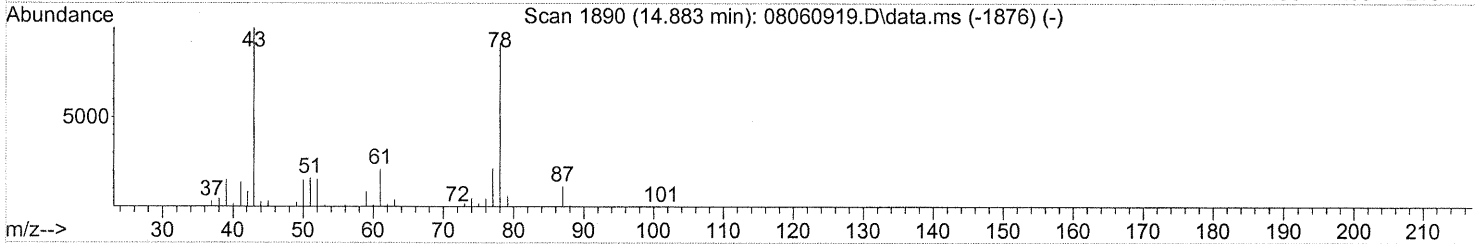
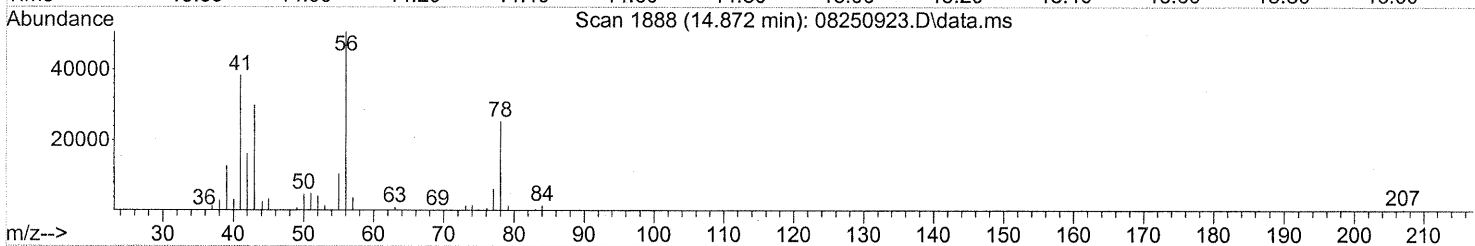
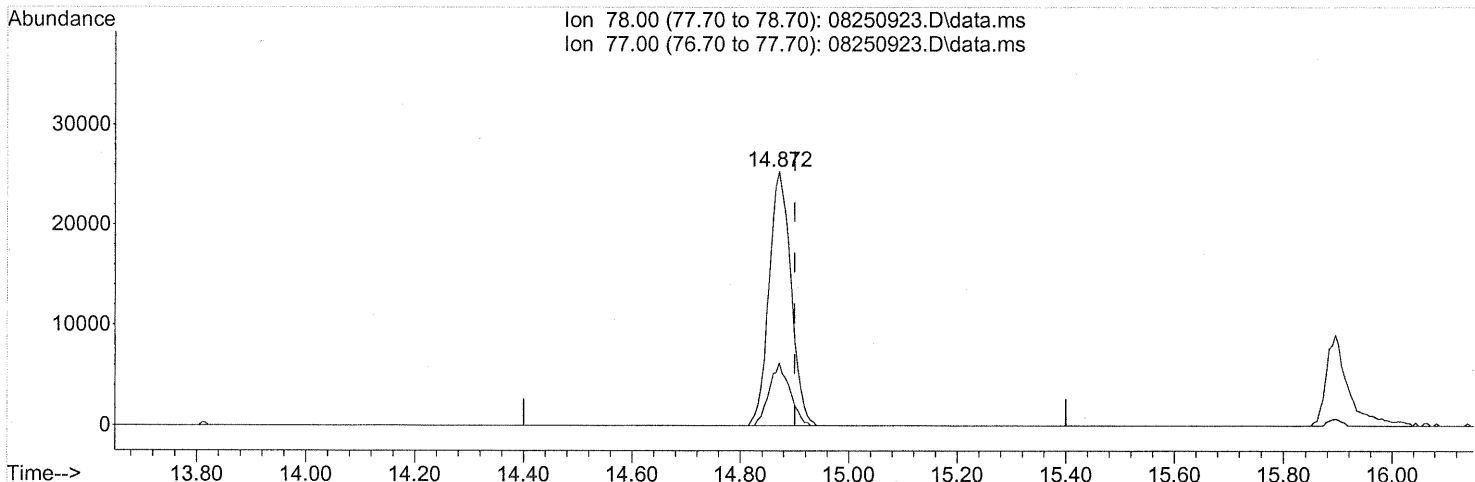
response 34462

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(41) Benzene (T)

14.872min (-0.028) 1.55ng

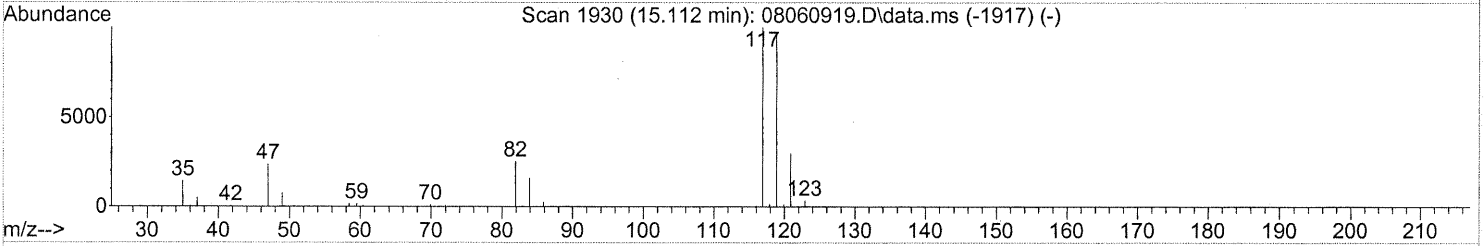
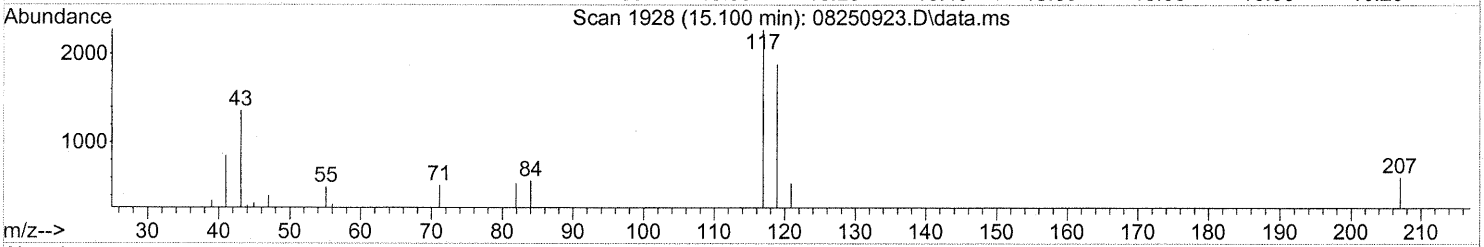
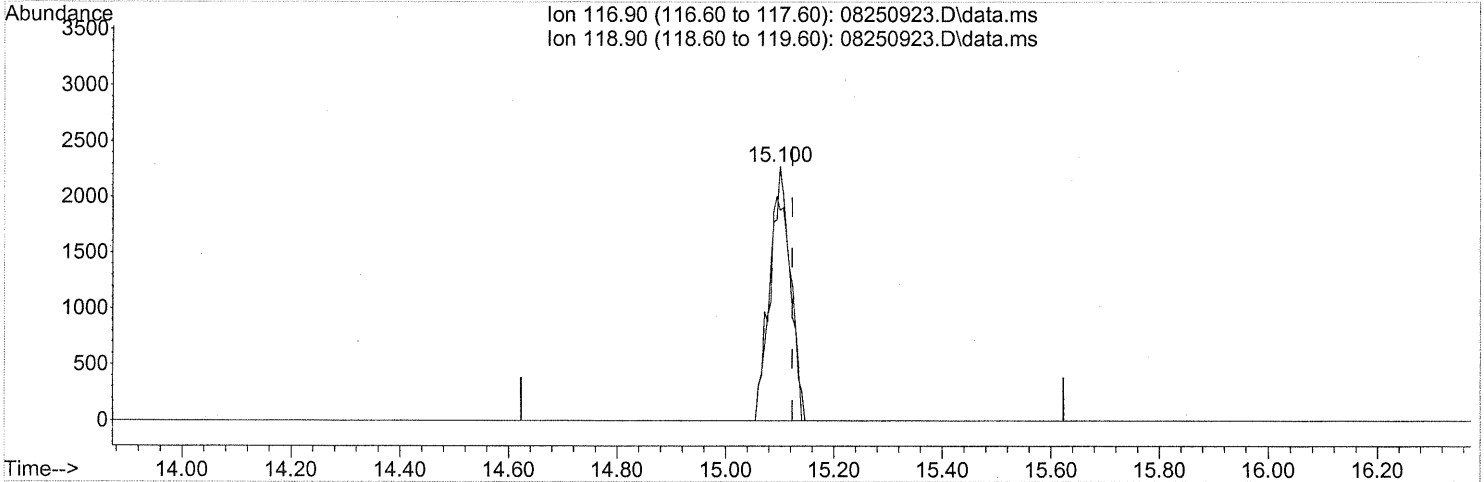
response 71270

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.40ng

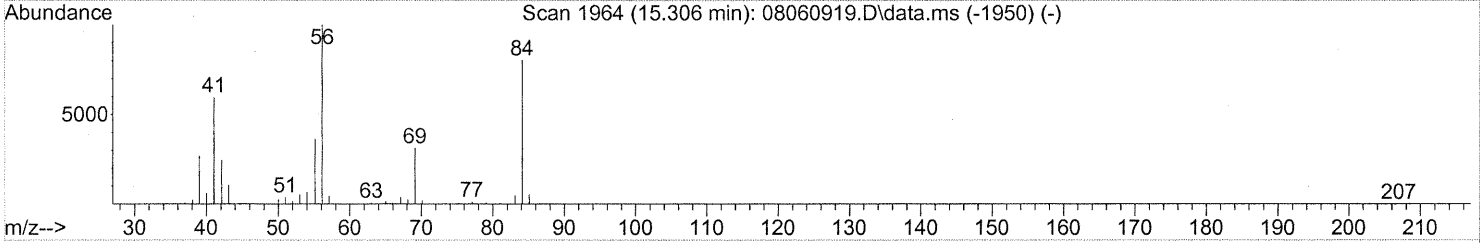
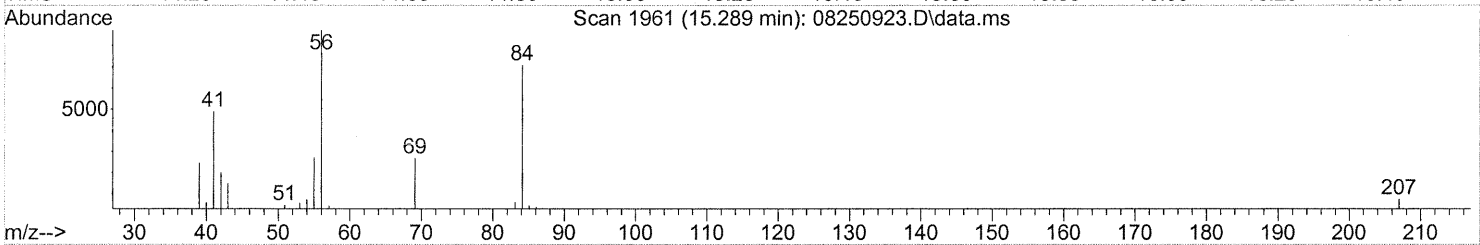
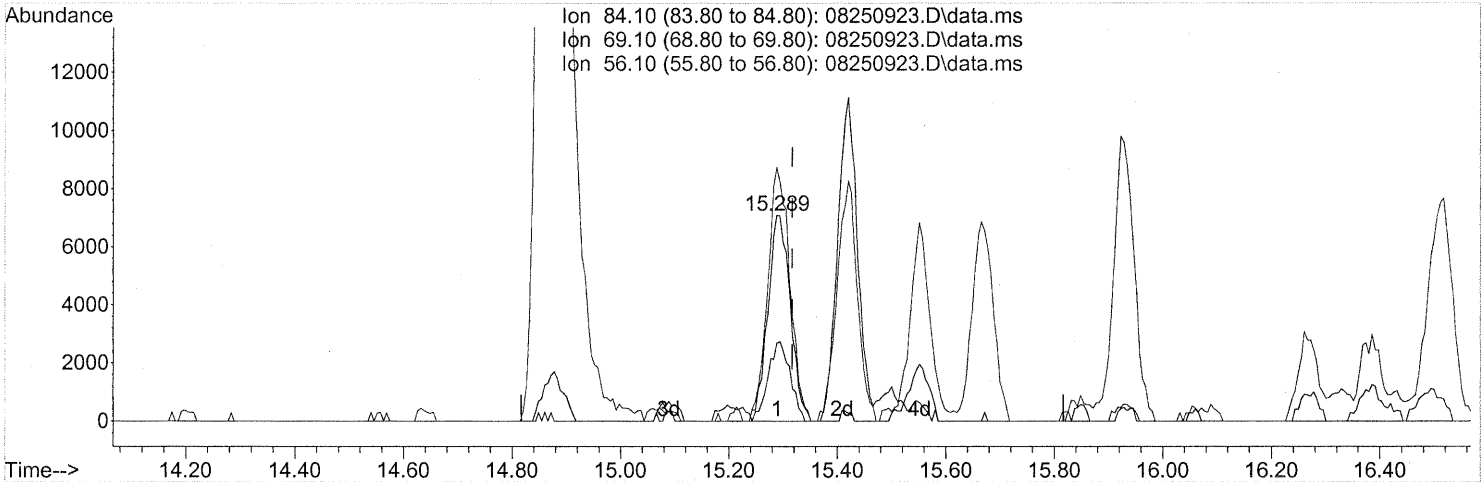
response 5908

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(43) Cyclohexane (T)

15.289min (-0.028) 1.21ng

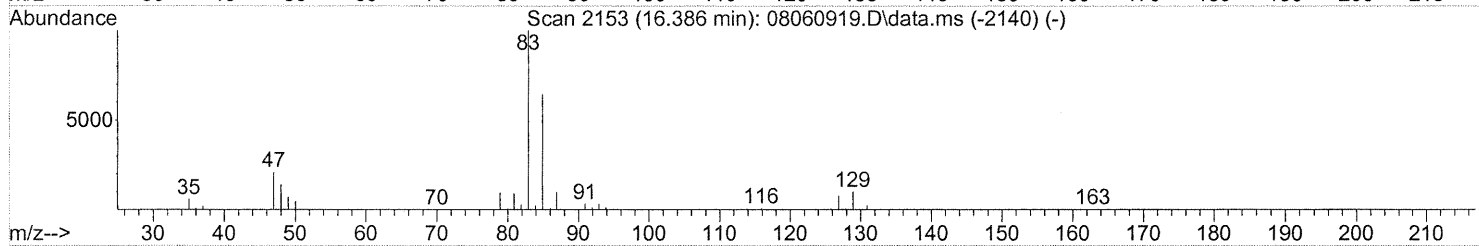
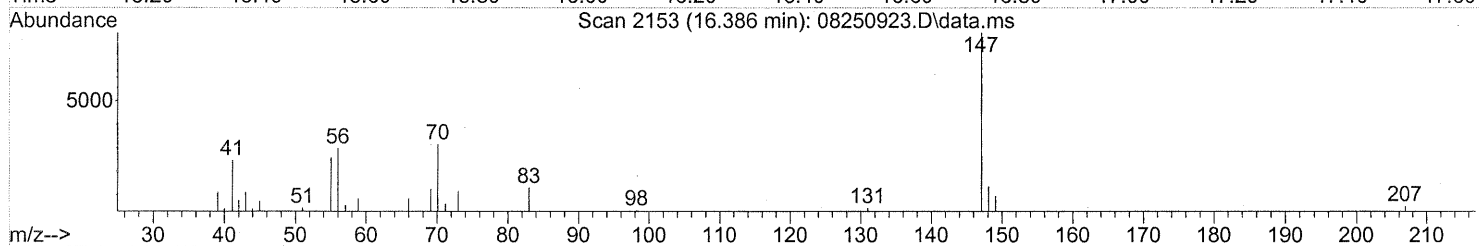
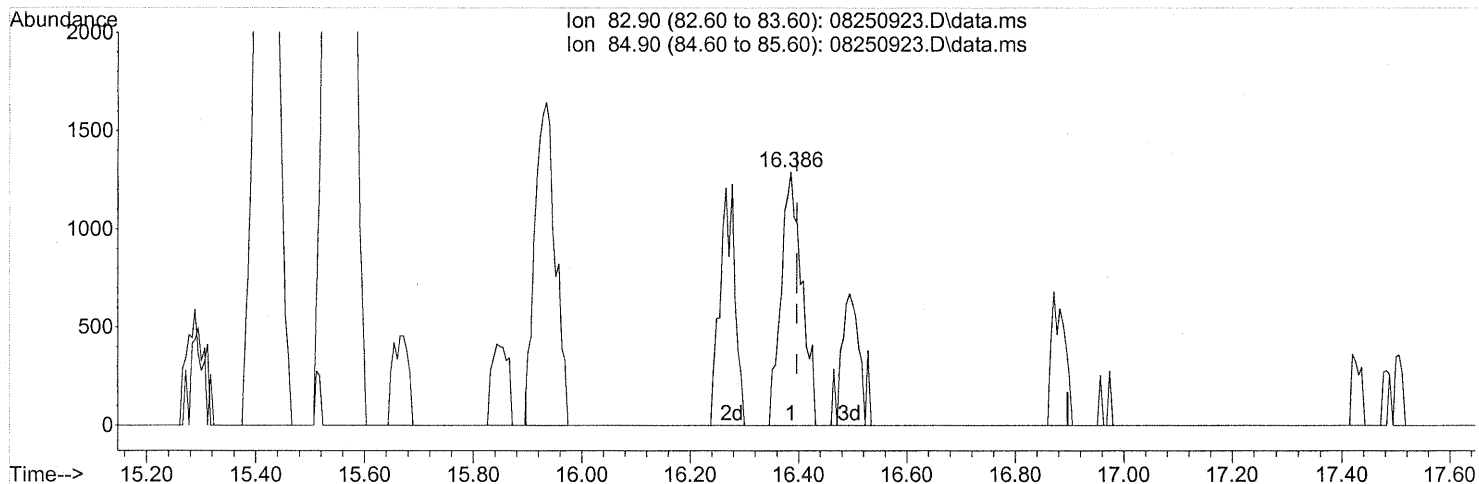
response 20350

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.70
56.10	127.50	122.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.386min (-0.011) 0.23ng

response 3428

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP

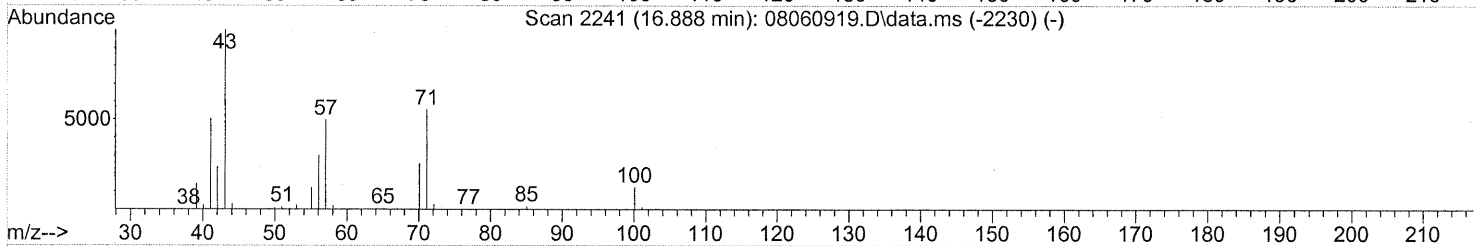
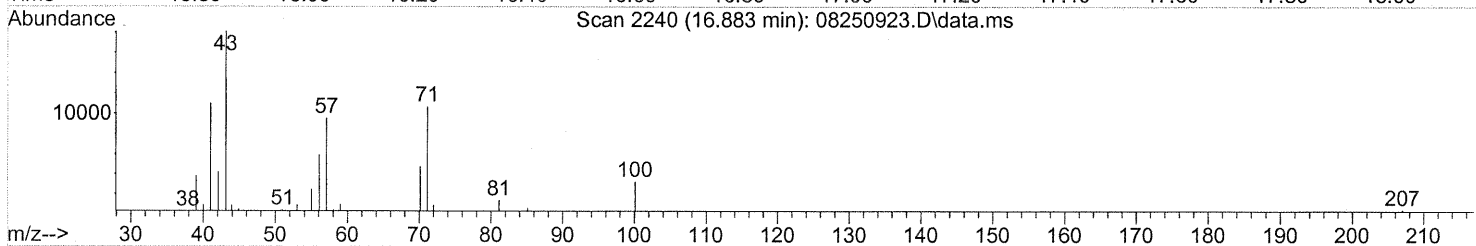
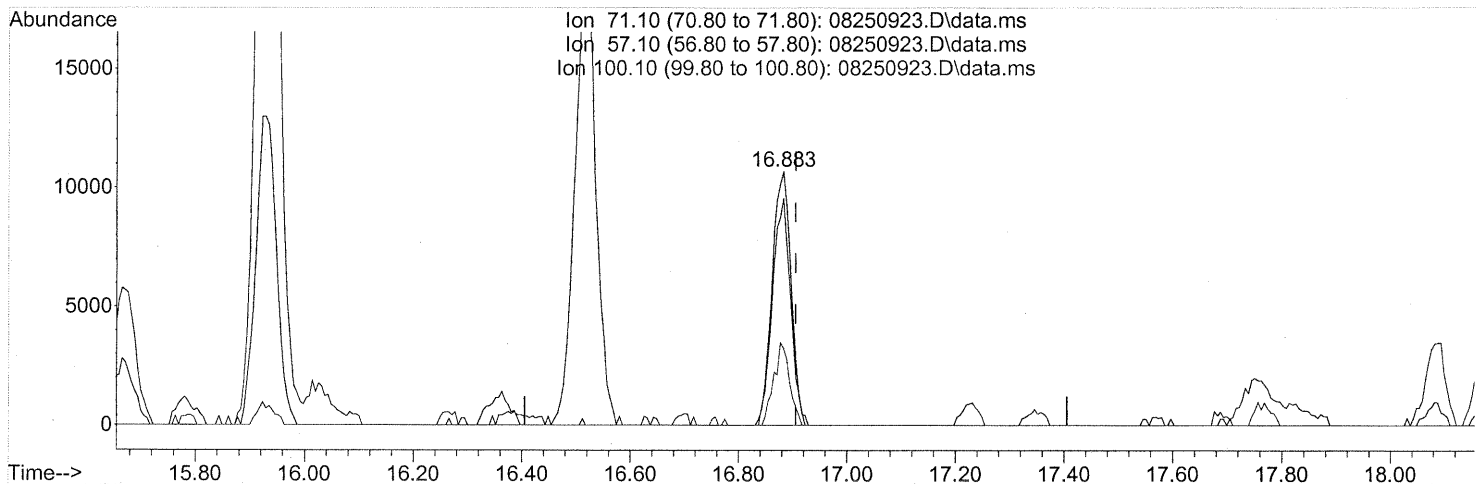
UM 9/2/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



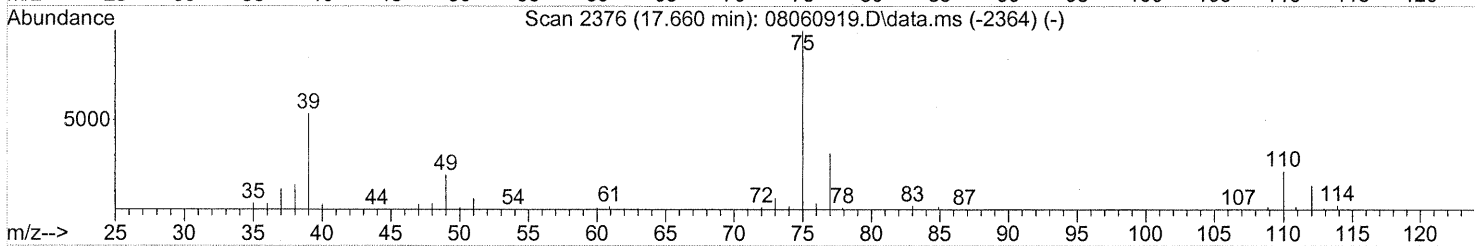
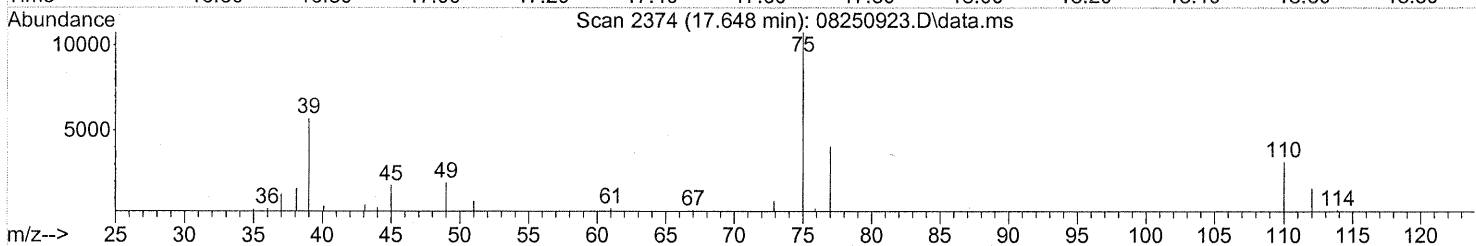
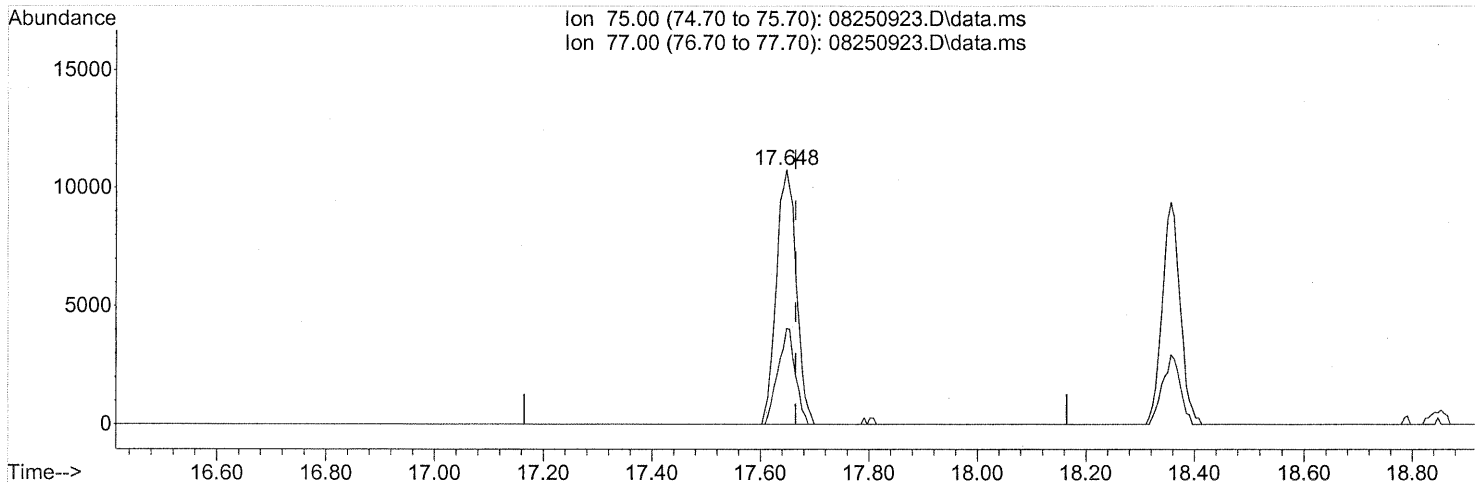
(51) n-Heptane (T)
 16.883min (-0.023) 2.11ng
 response 25977

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	84.92
100.10	26.40	27.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 1.43ng

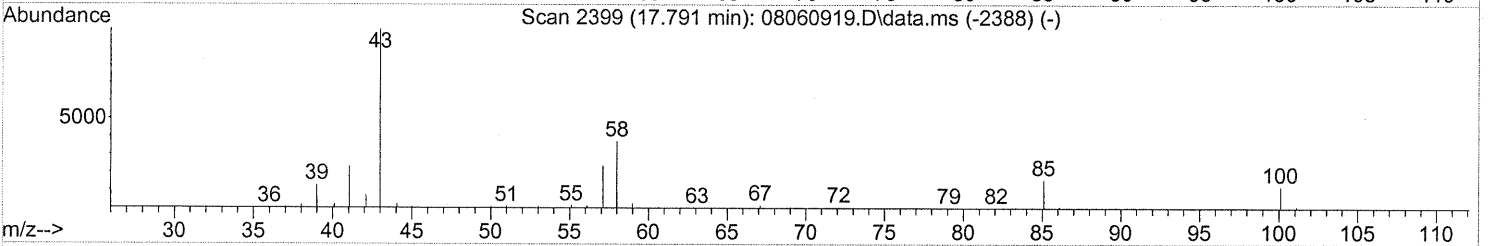
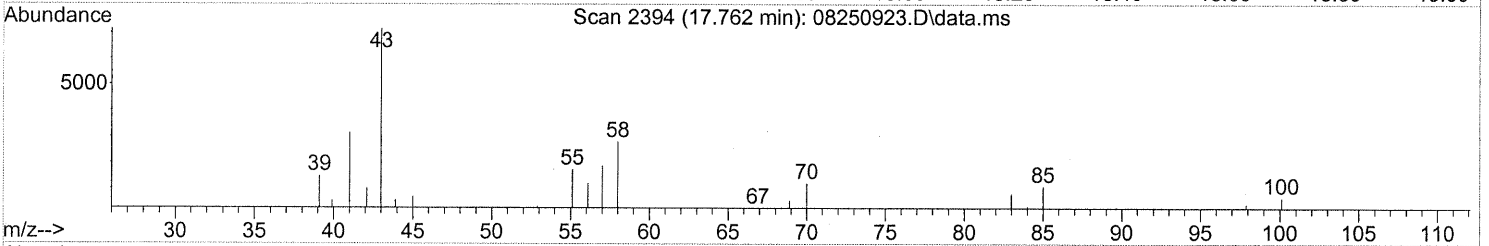
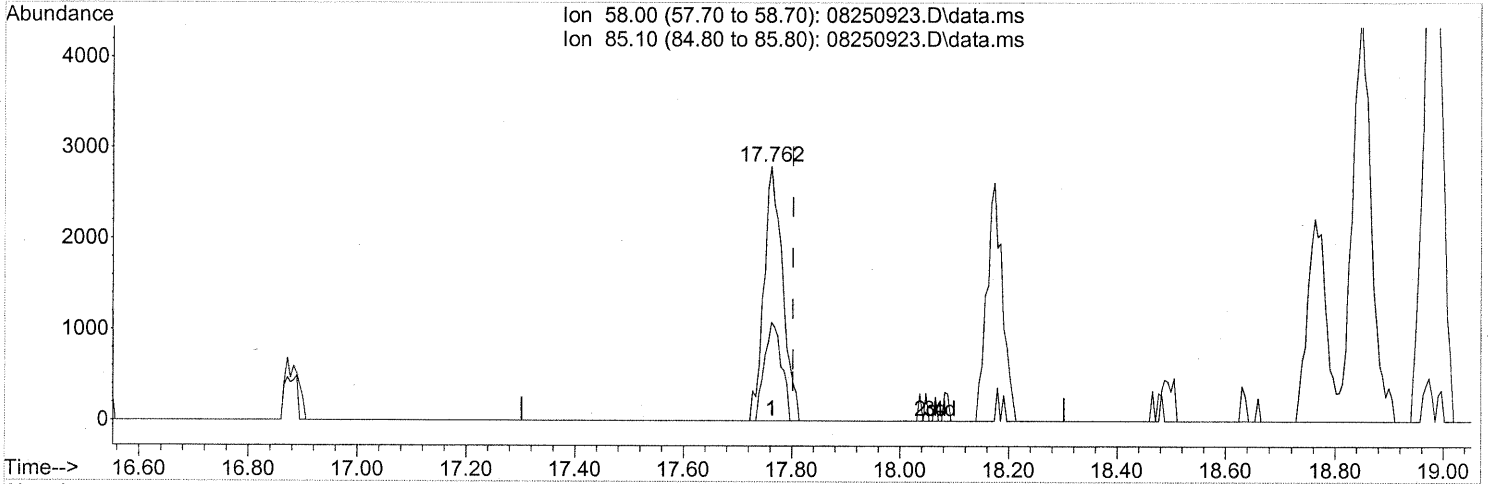
response 27260

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	32.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

17.762min (-0.040) 0.60ng

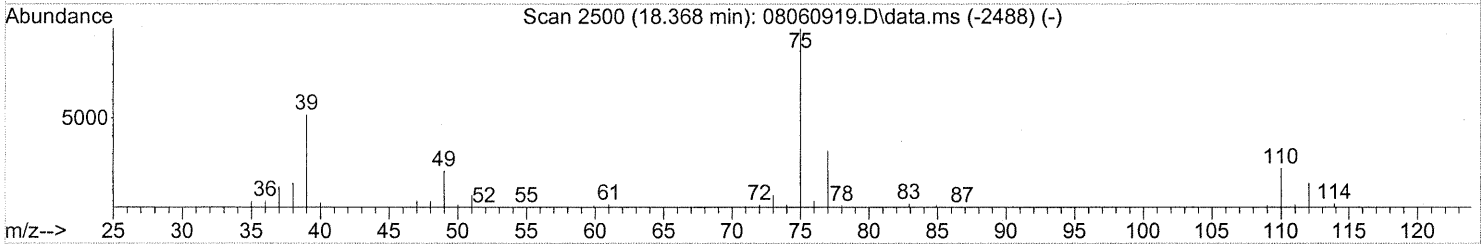
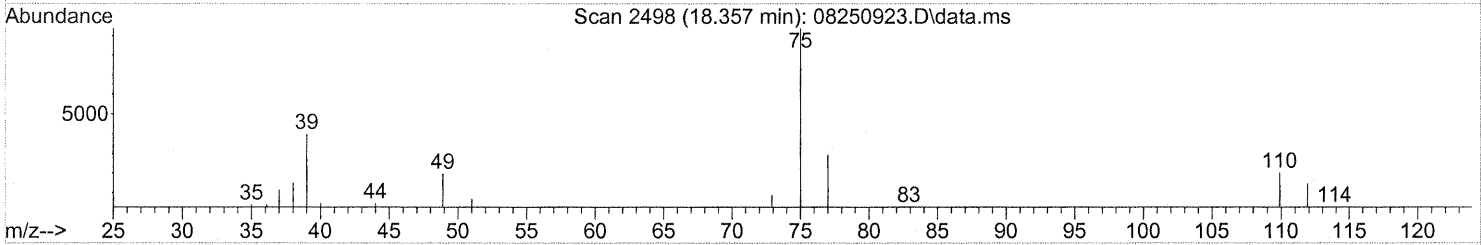
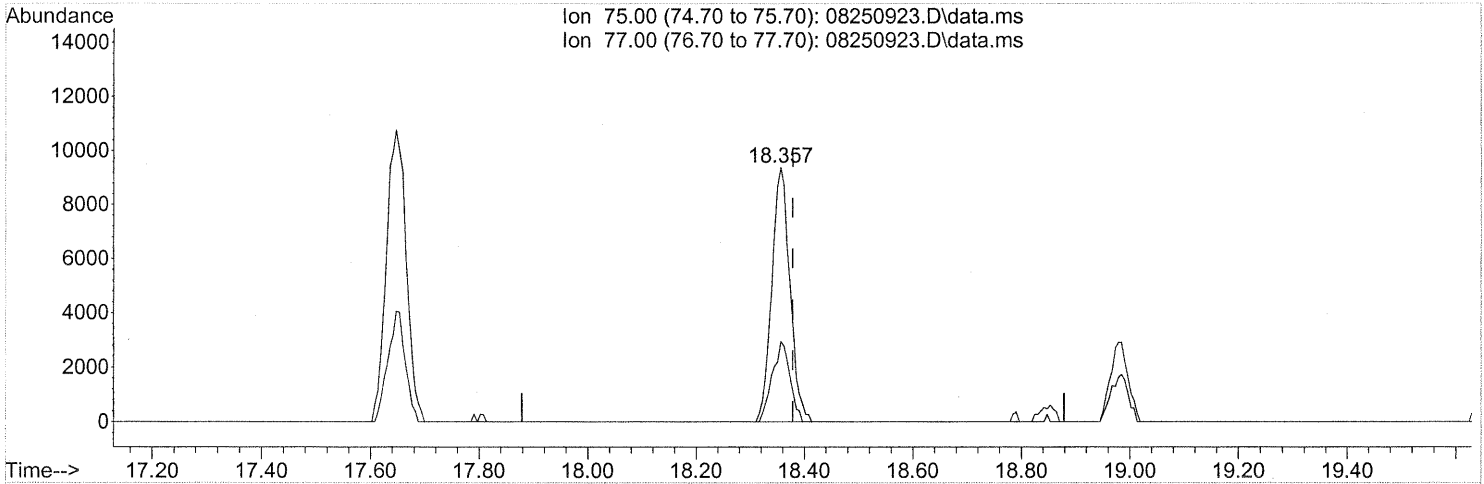
response 6658

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	35.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.357min (-0.023) 1.19ng

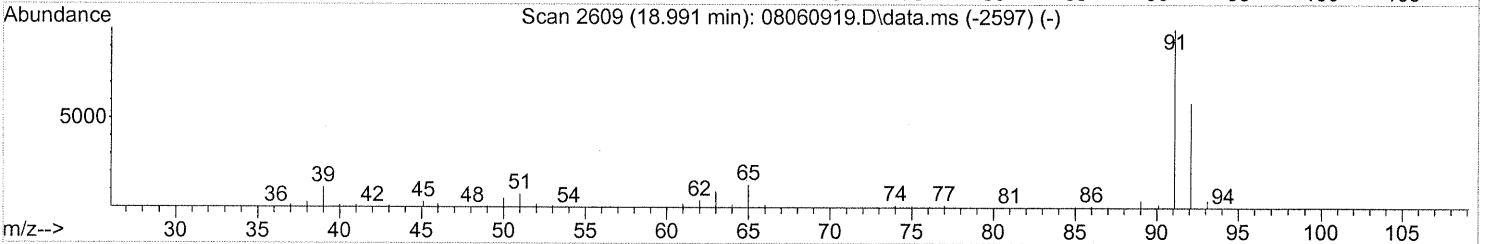
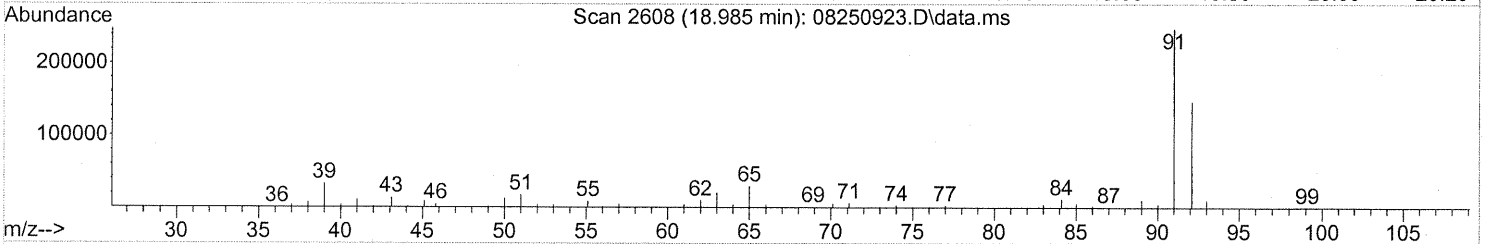
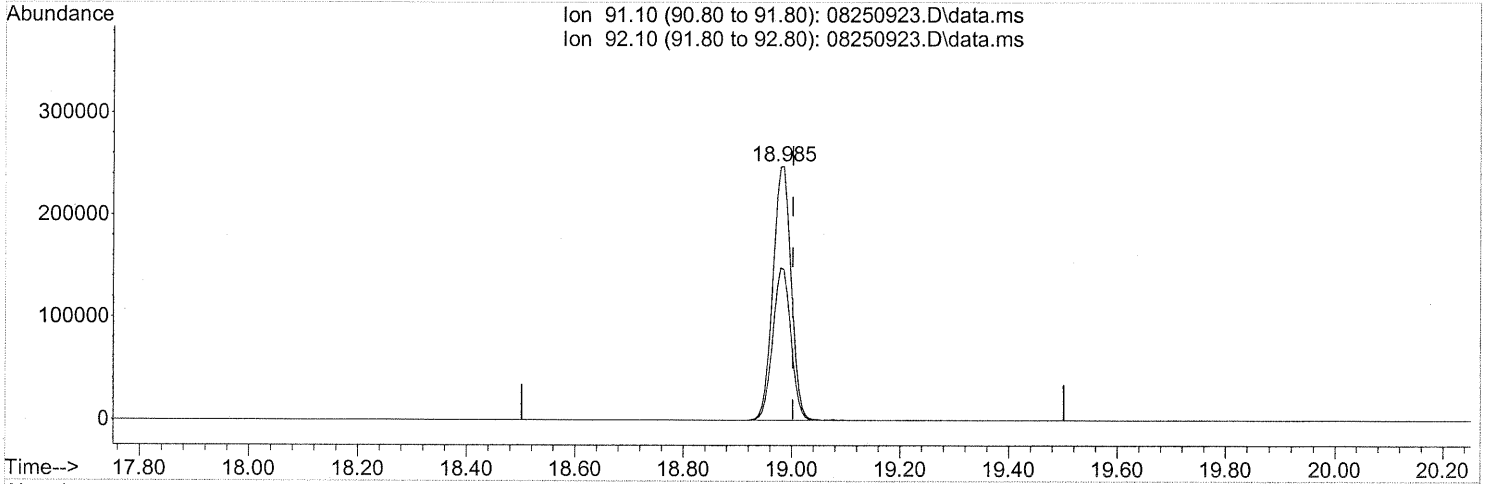
response 21634

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	30.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

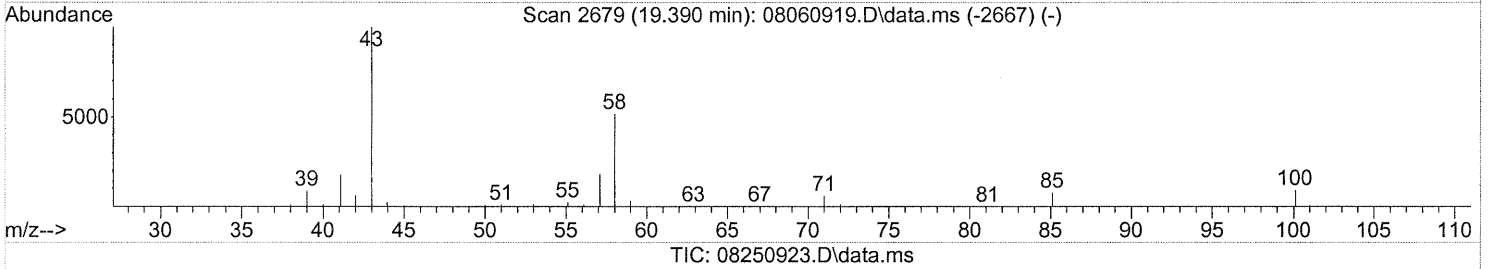
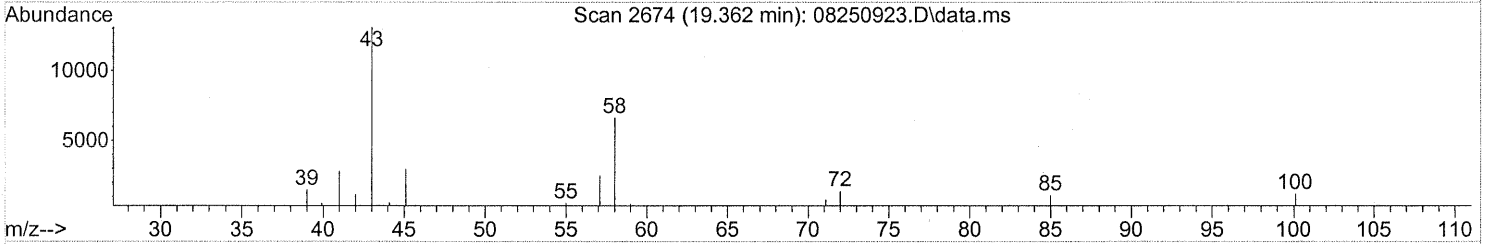
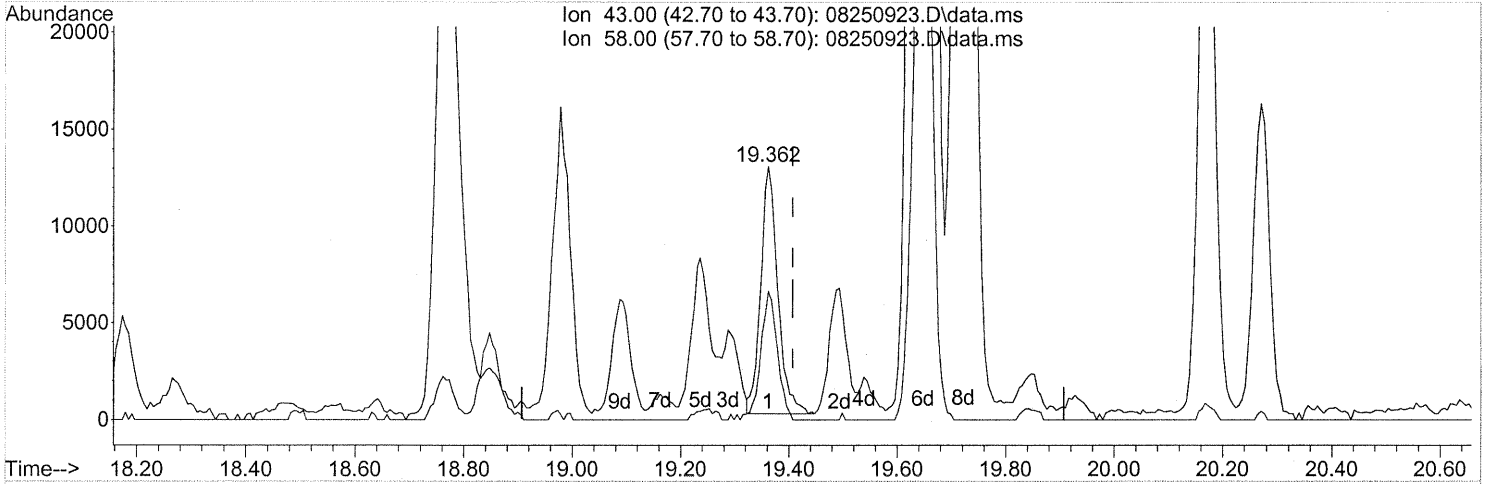
(58) Toluene (T)
 18.985min (-0.017) 13.23ng
 response 576091

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



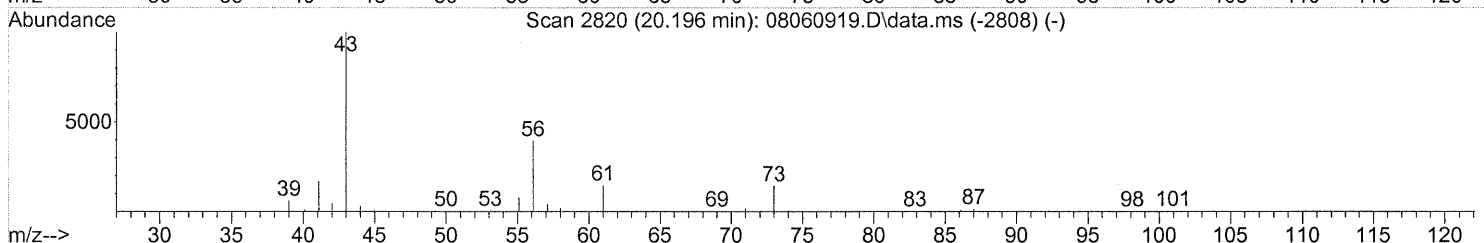
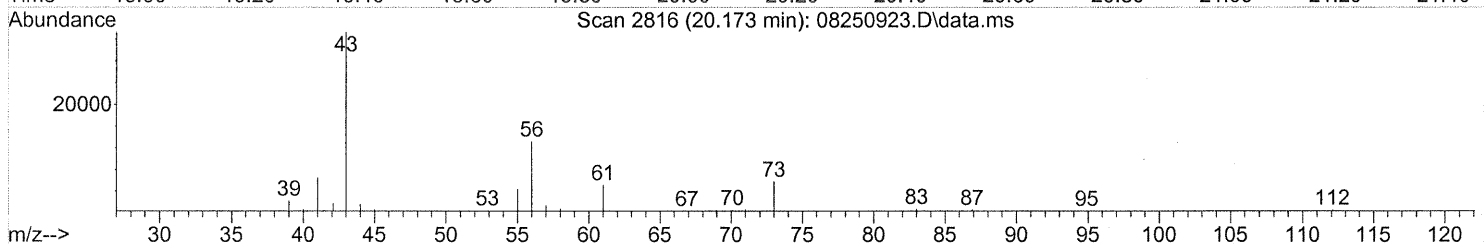
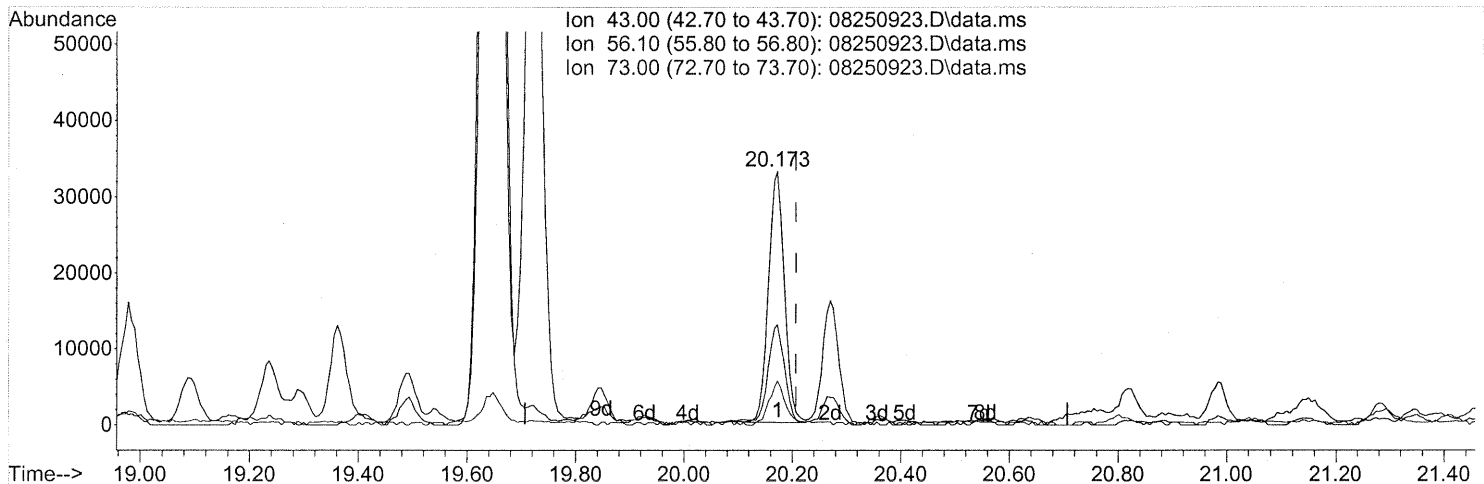
(59) 2-Hexanone (T)
 19.362min (-0.046) 0.98ng
 response 28236

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	50.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



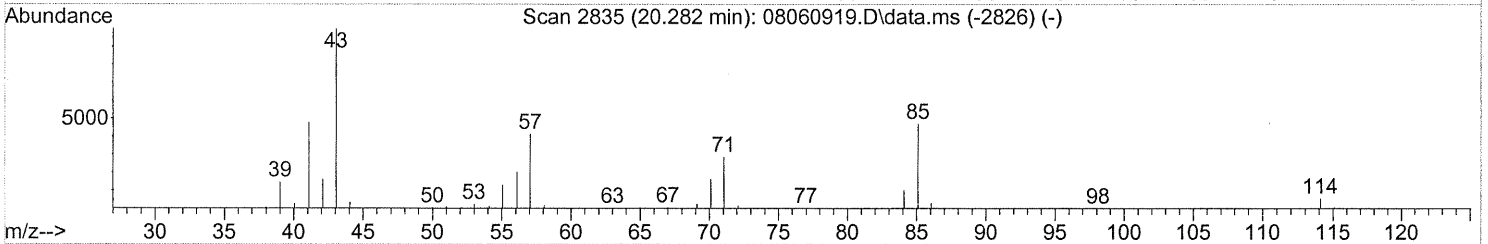
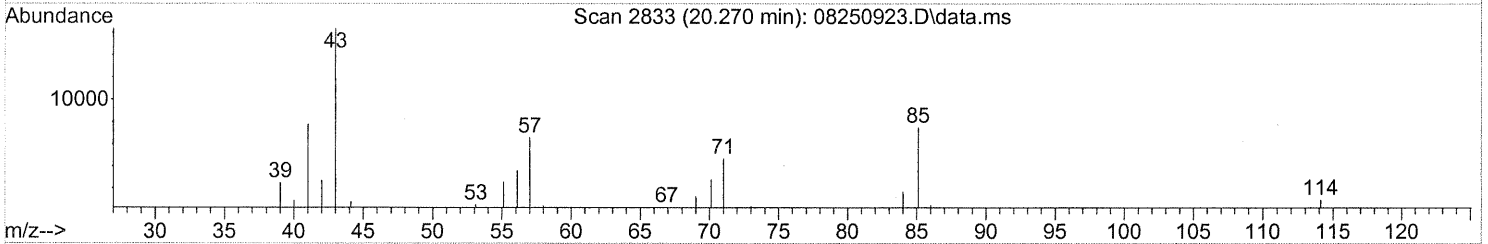
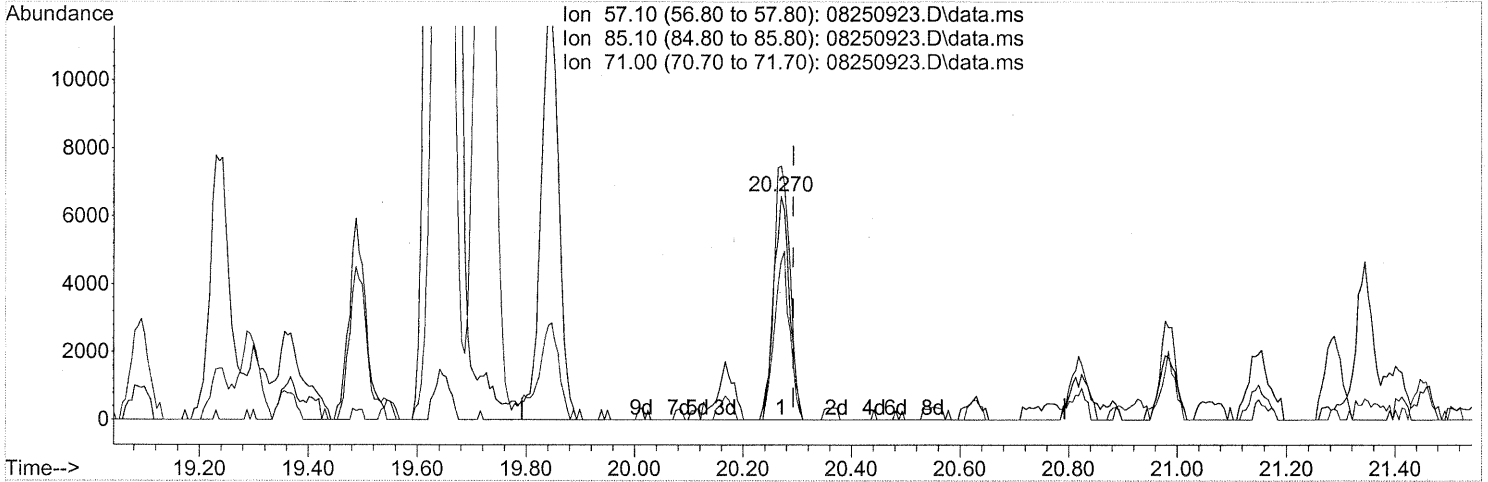
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 1.99ng
 response 68015

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	40.31
73.00	14.80	19.64
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(63) n-Octane (T)

20.270min (-0.023) 1.30ng

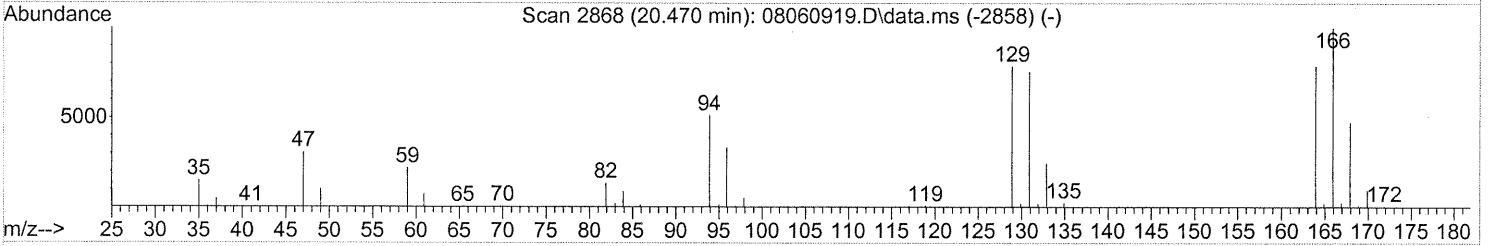
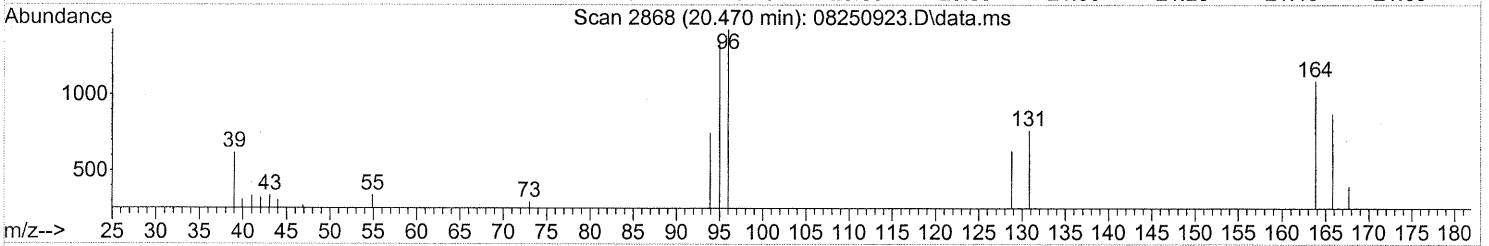
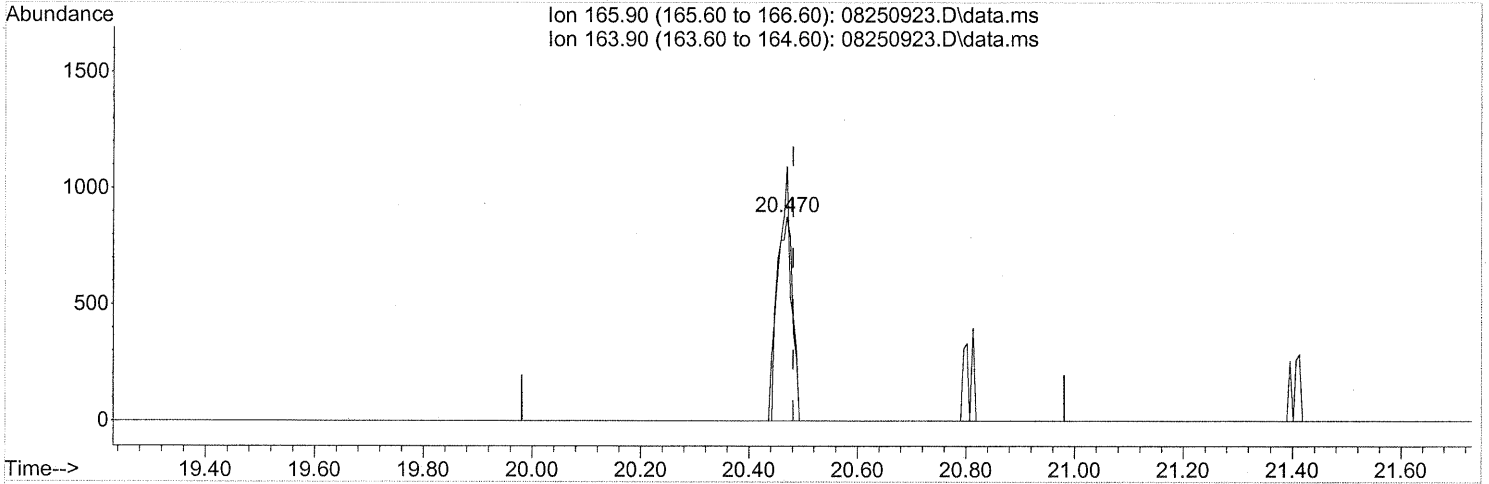
response 13633

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	114.09
71.00	68.10	70.33
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(64) Tetrachloroethene (T)

20.470min (-0.011) 0.18ng

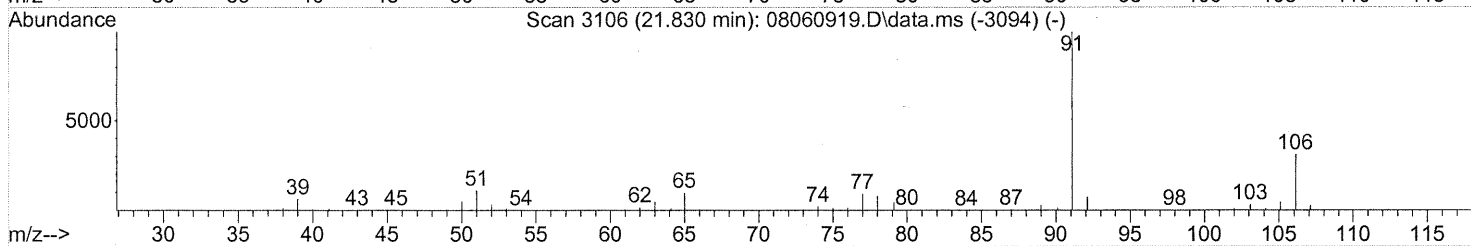
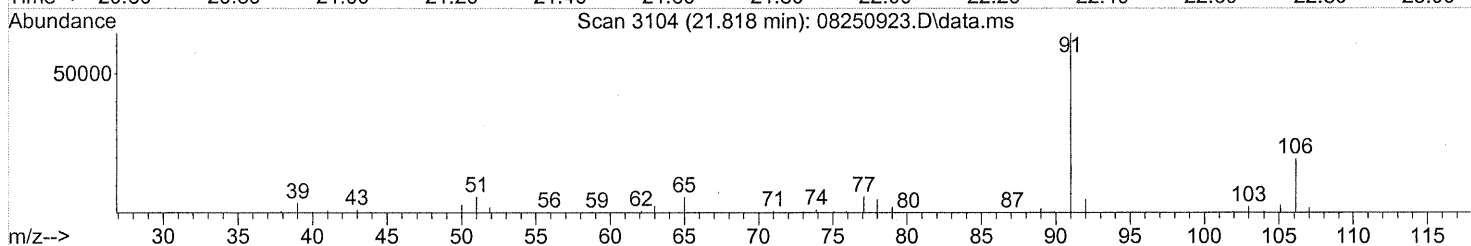
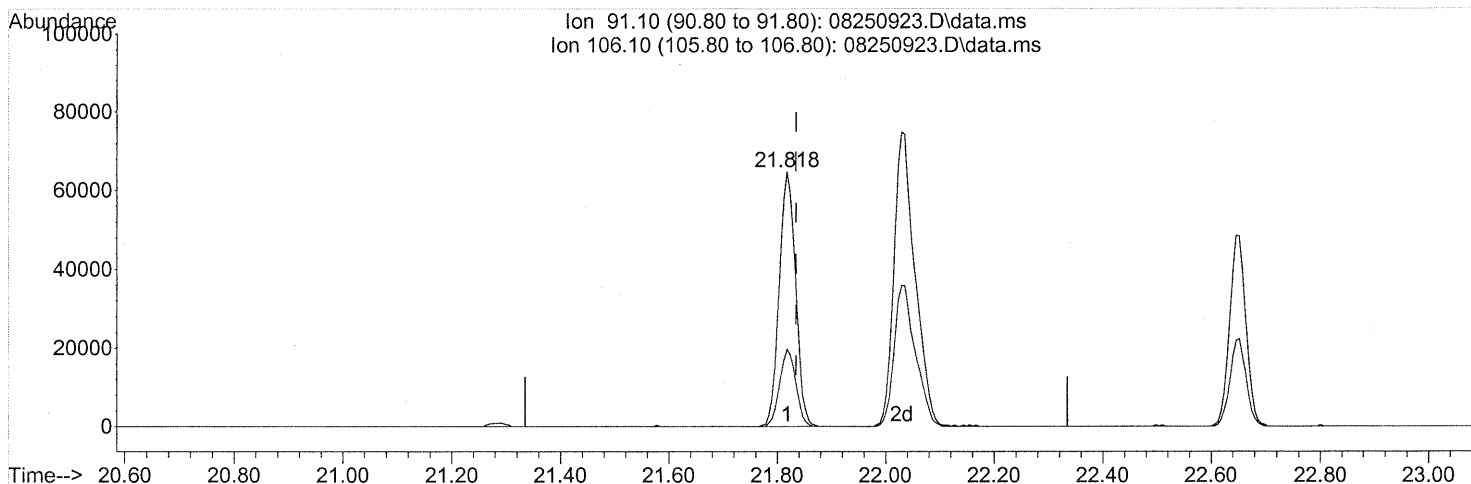
response 1787

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	99.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(66) Ethylbenzene (T)

21.818min (-0.017) 2.71ng

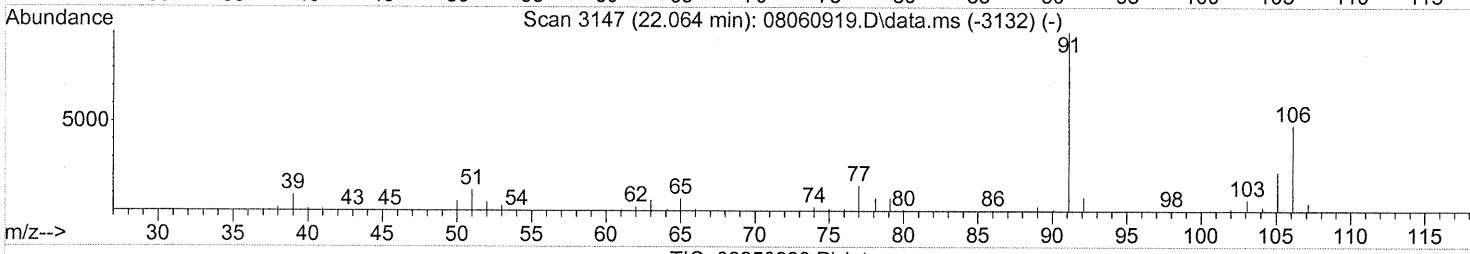
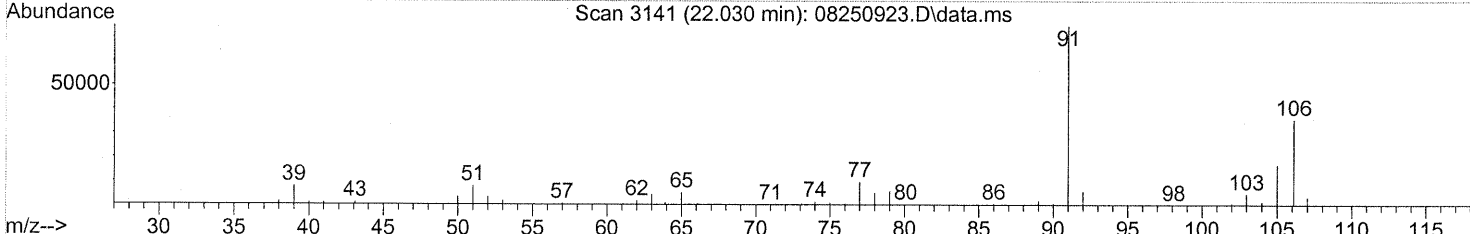
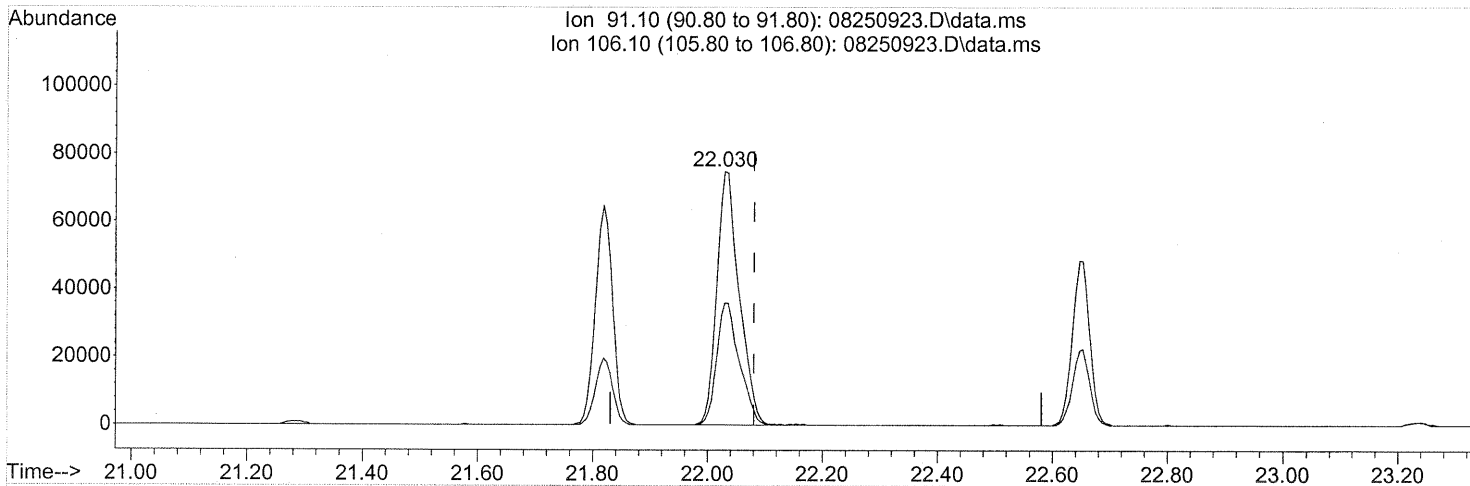
response 134950

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	29.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



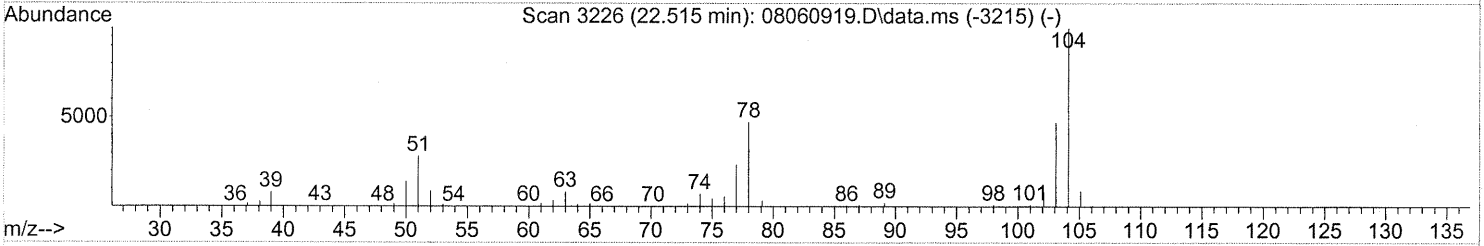
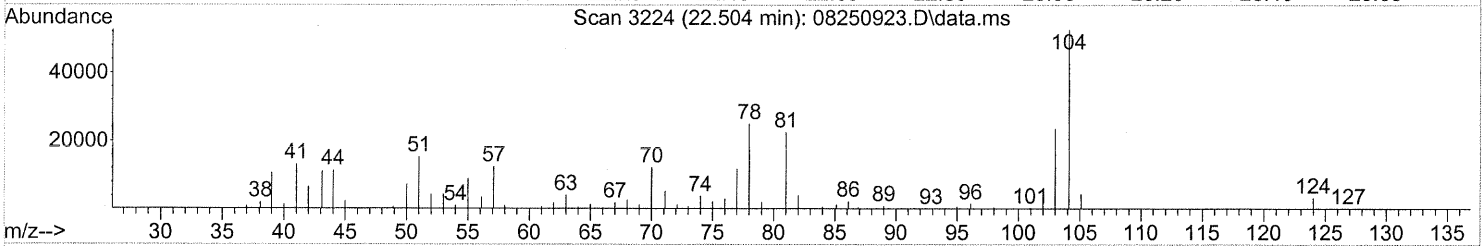
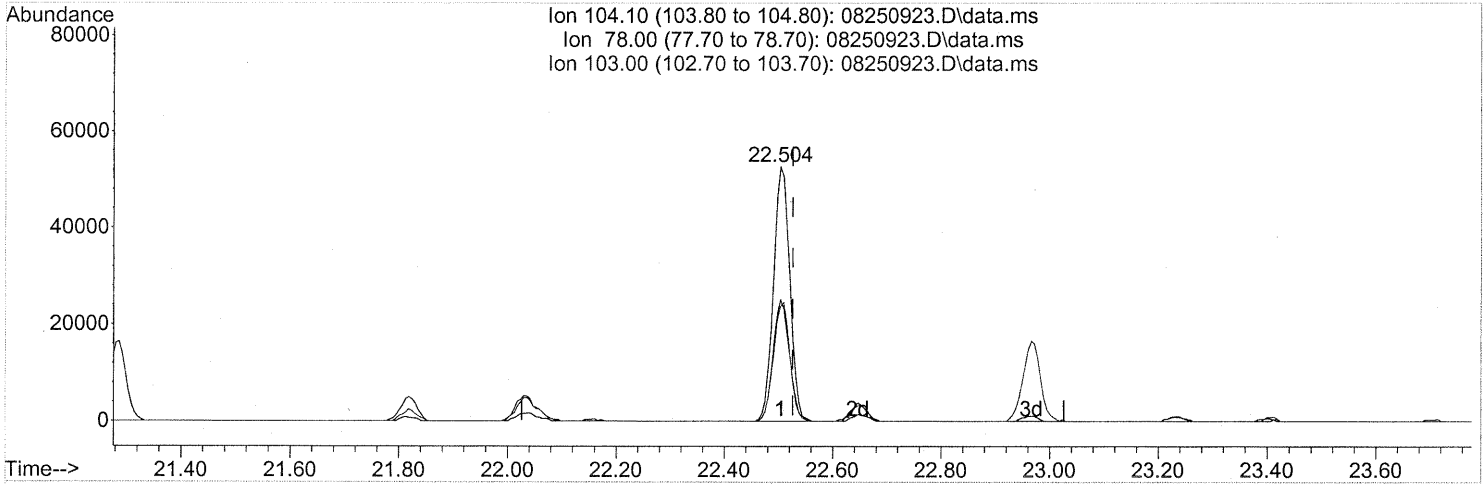
(67) m- & p-Xylenes (T)
 22.030min (-0.051) 5.02ng
 response 202013

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

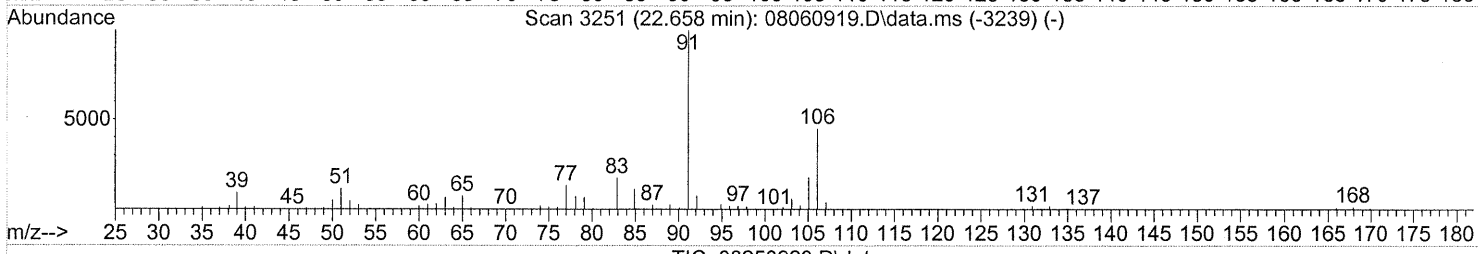
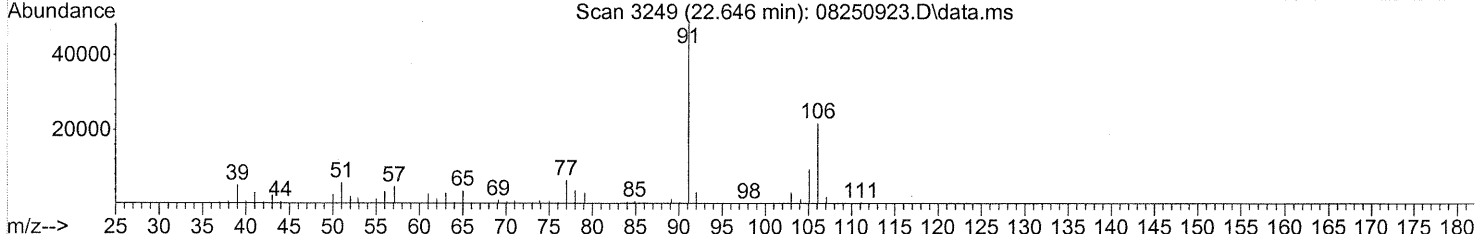
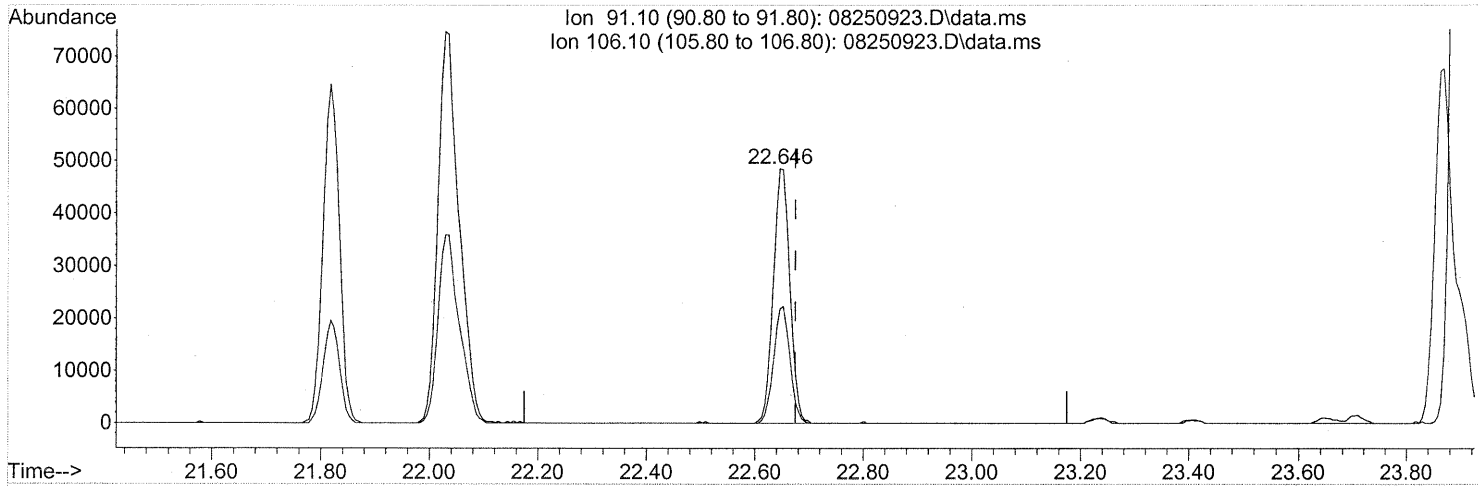
(69) Styrene (T)
 22.504min (-0.023) 3.75ng
 response 109196

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.17
103.00	46.20	46.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



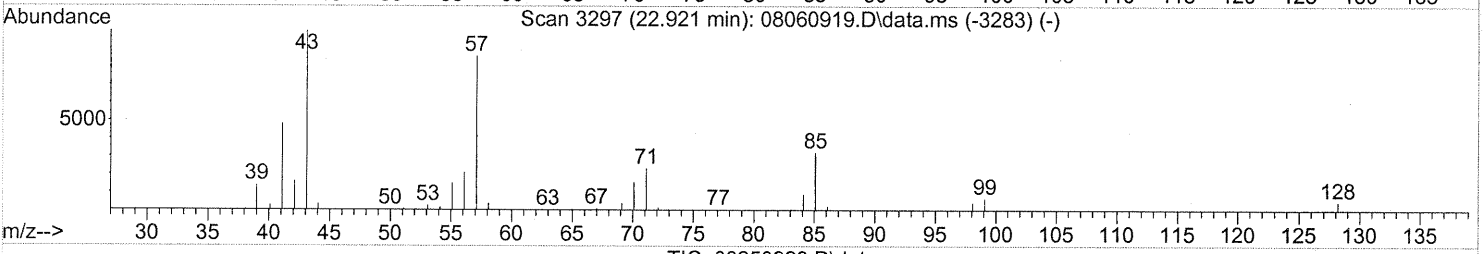
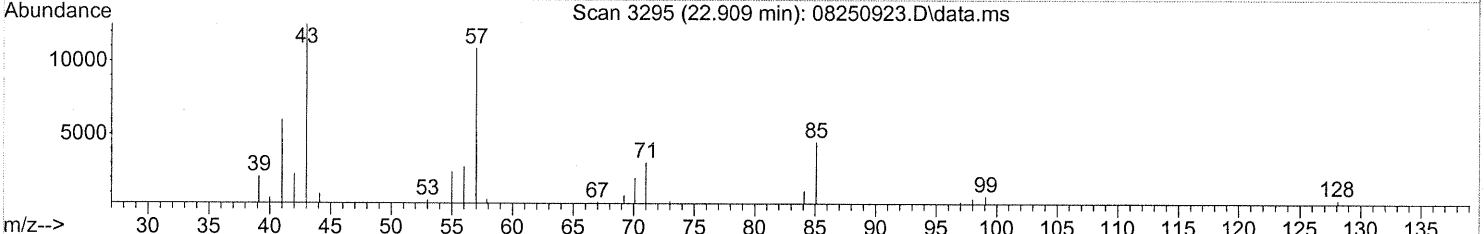
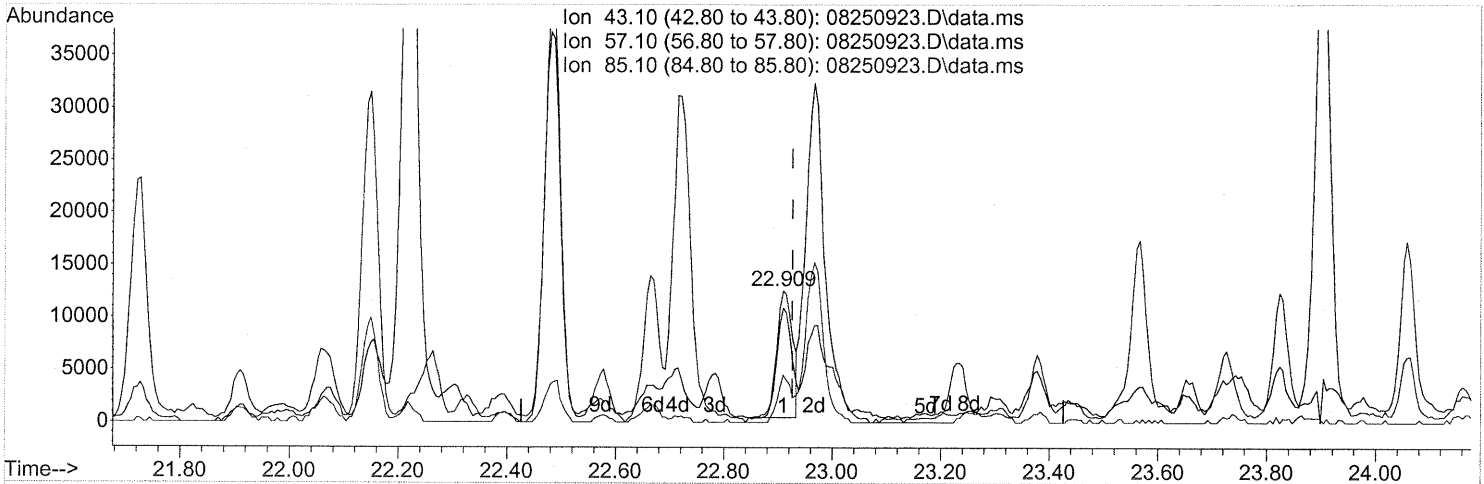
(70) o-Xylene (T)
 22.646min (-0.028) 2.53ng
 response 102230

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



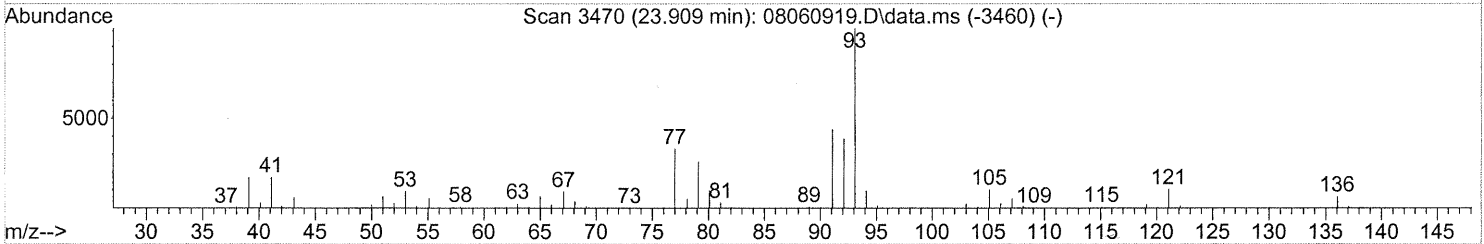
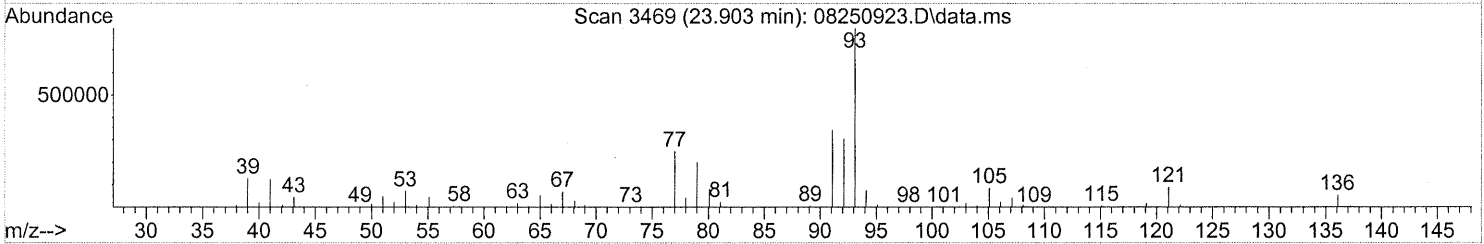
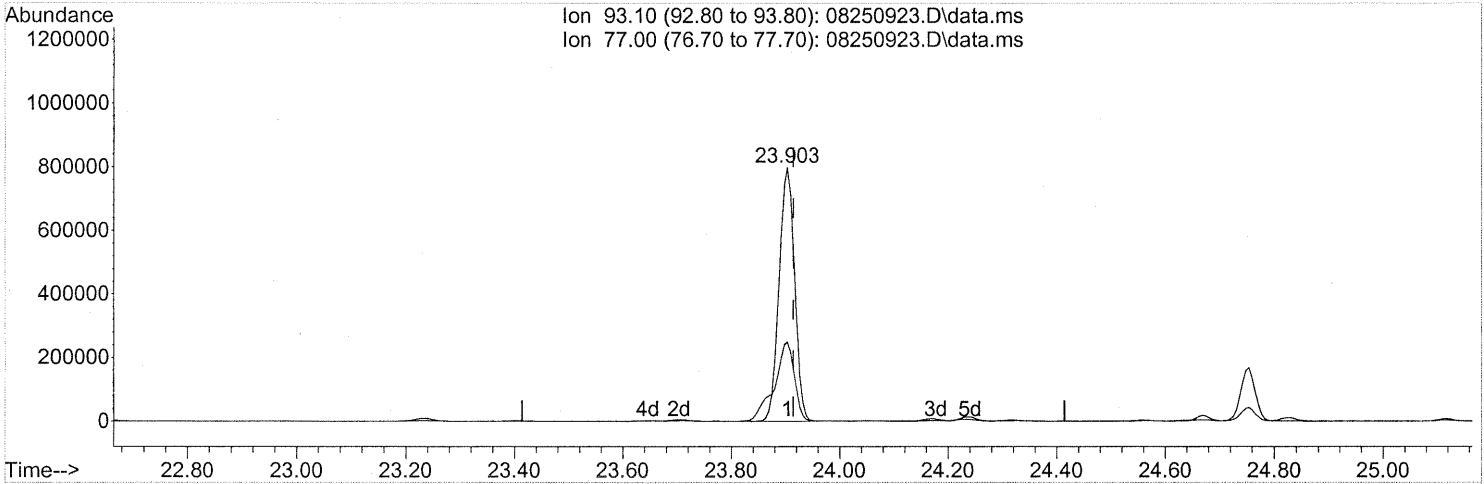
(71) n-Nonane (T)
 22.909min (-0.017) 0.90ng
 response 24230

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	93.15
85.10	30.40	33.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

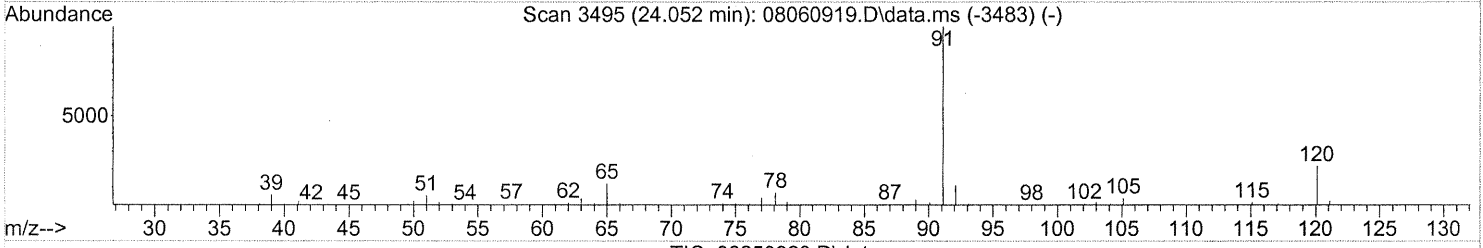
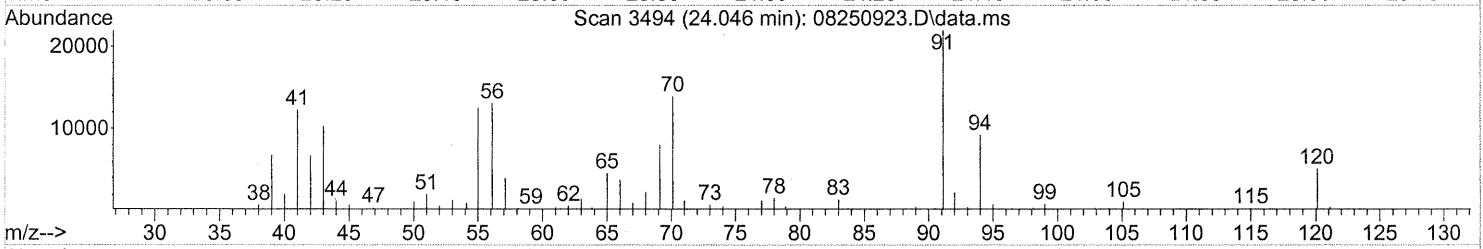
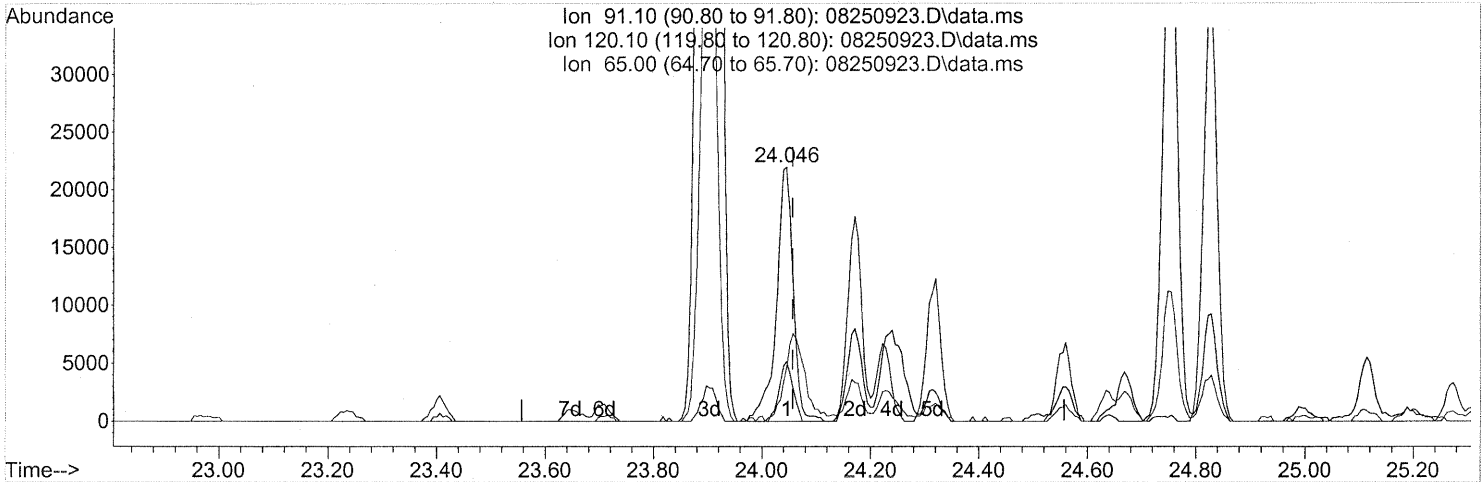
(75) alpha-Pinene (T)
 23.903min (-0.011) 60.03ng
 response 1568871

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	40.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.011) 0.73ng

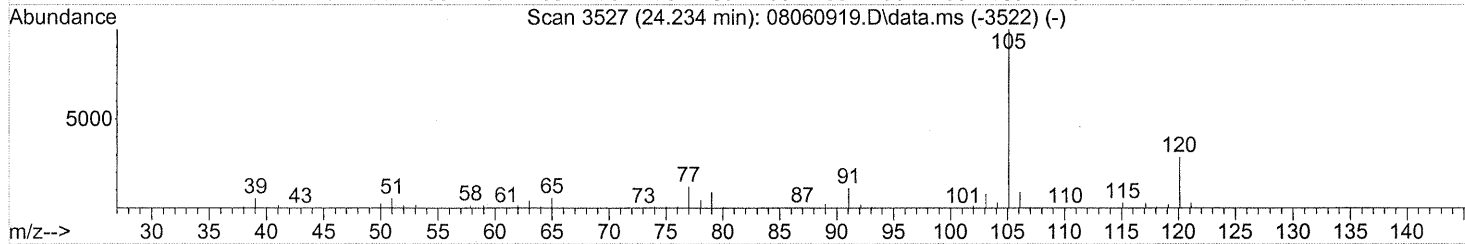
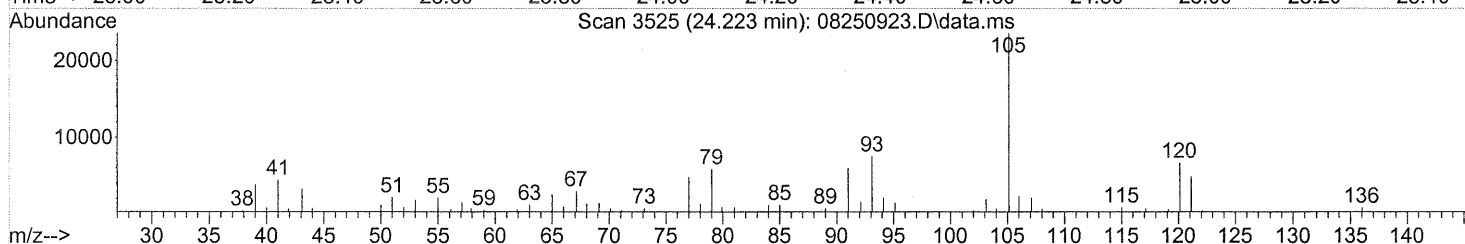
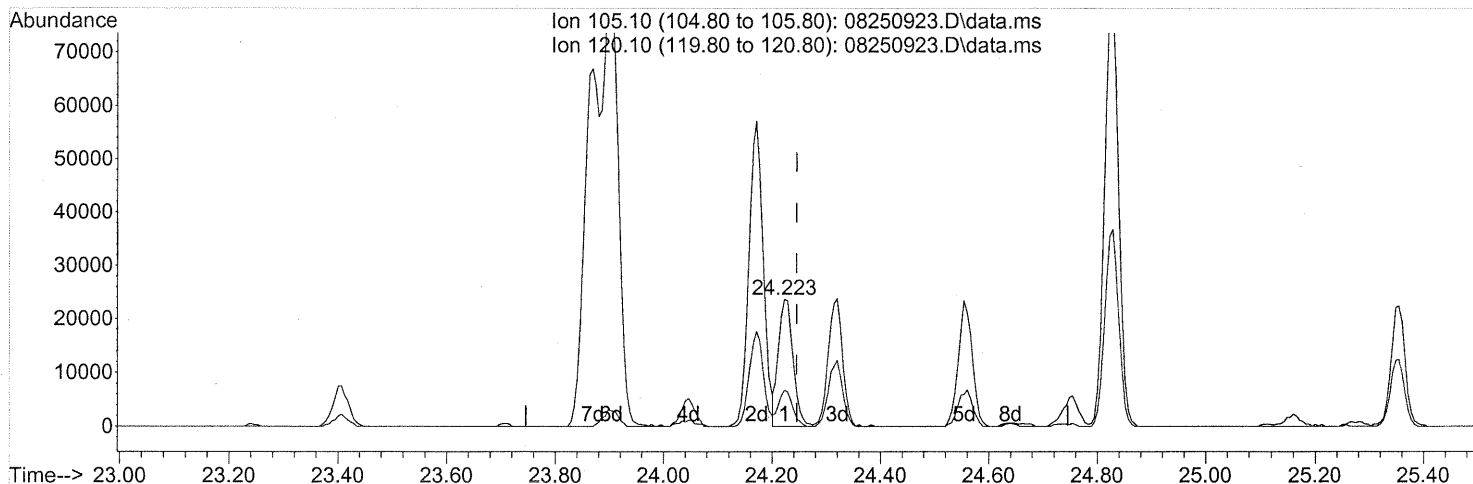
response 46799

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	19.14
65.00	12.00	42.66#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



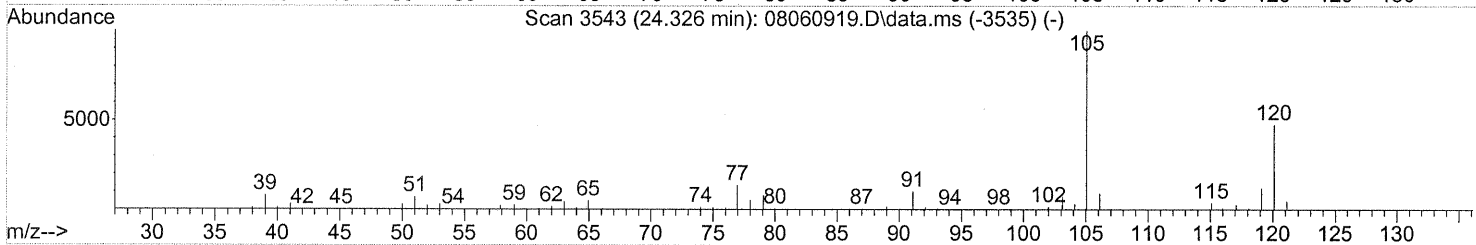
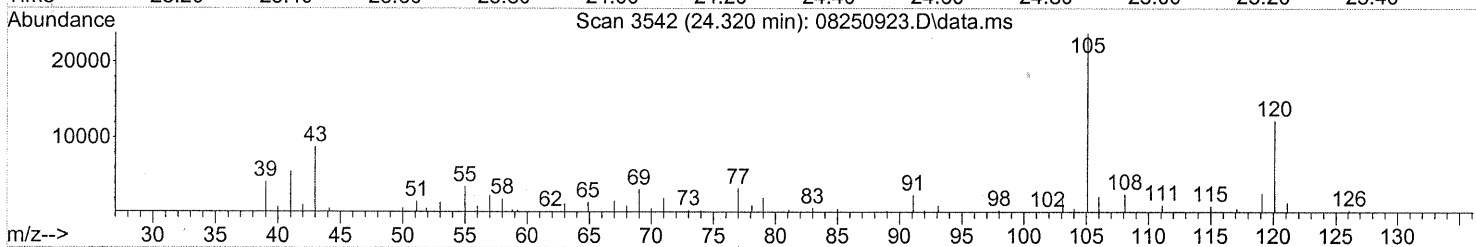
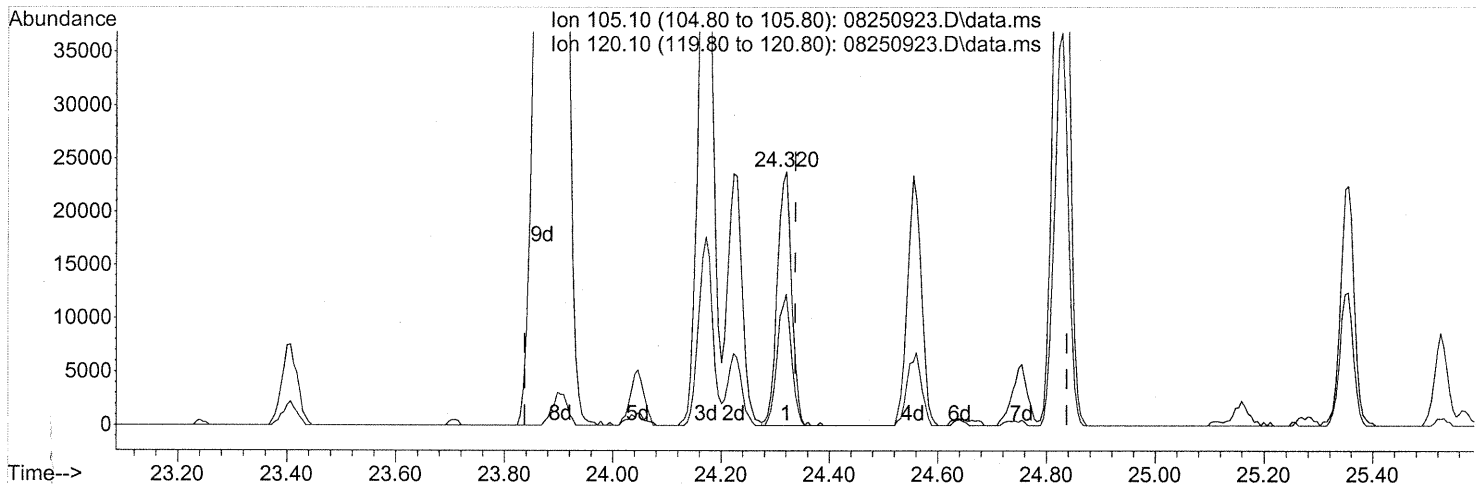
(78) 4-Ethyltoluene (T)
 24.223min (-0.023) 0.93ng
 response 44140

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

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

24.320min (-0.017) 1.09ng

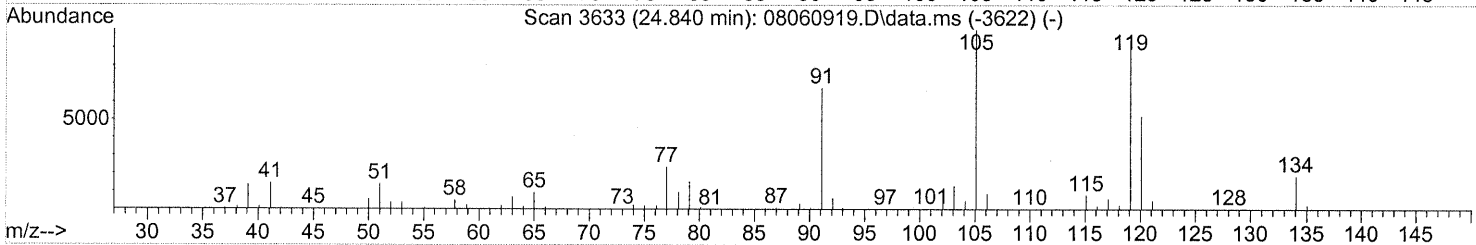
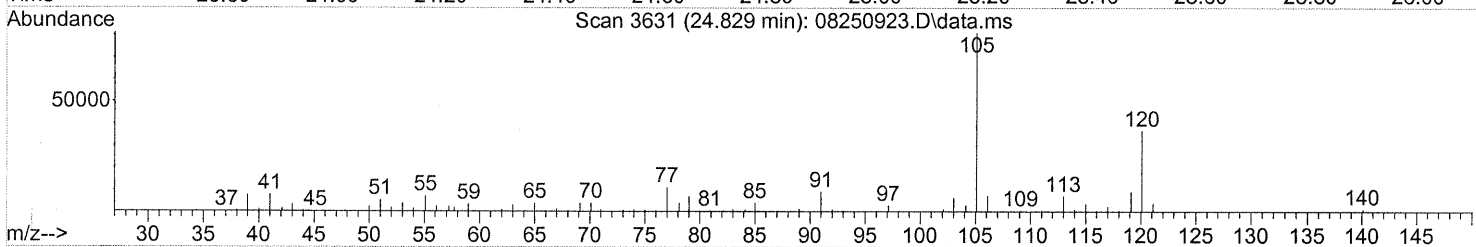
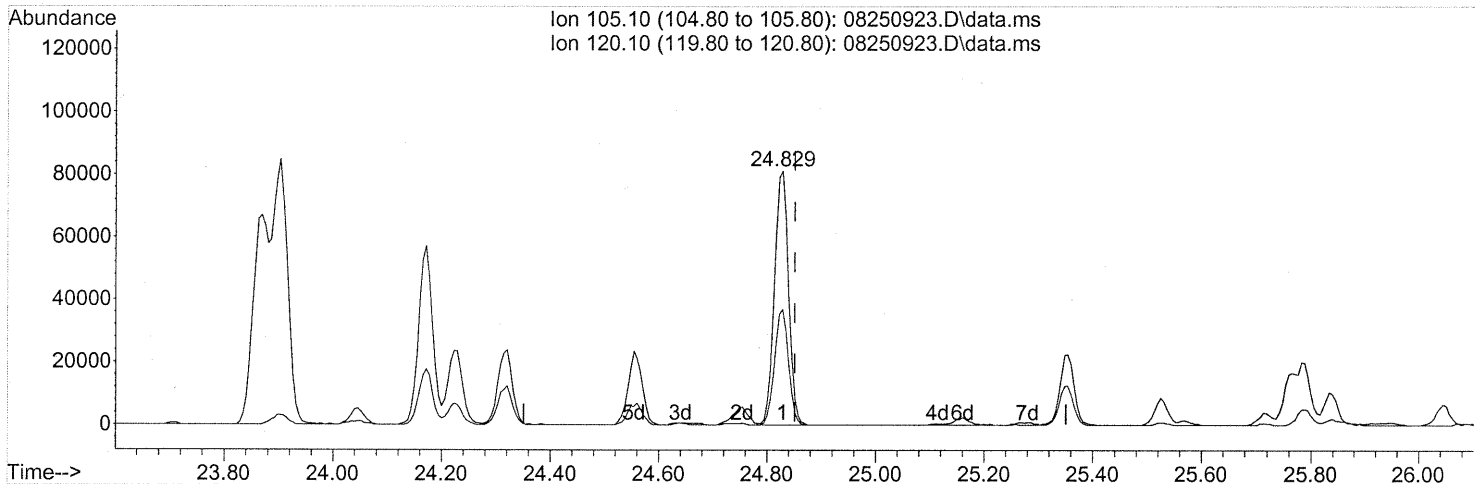
response 43587

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	50.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

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

24.829min (-0.023) 3.58ng

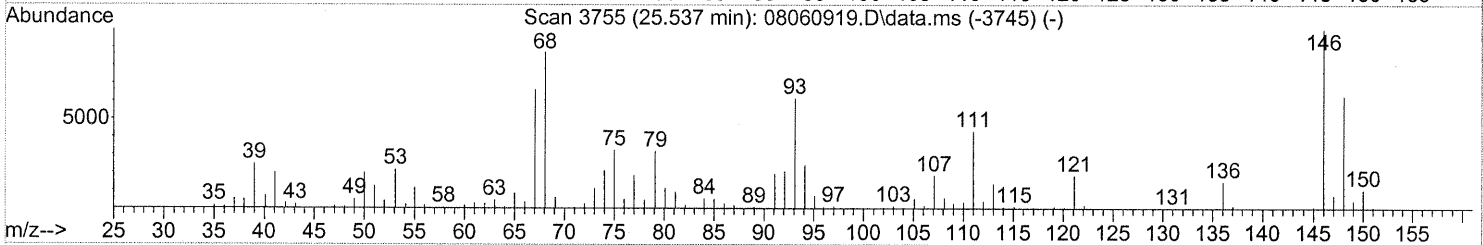
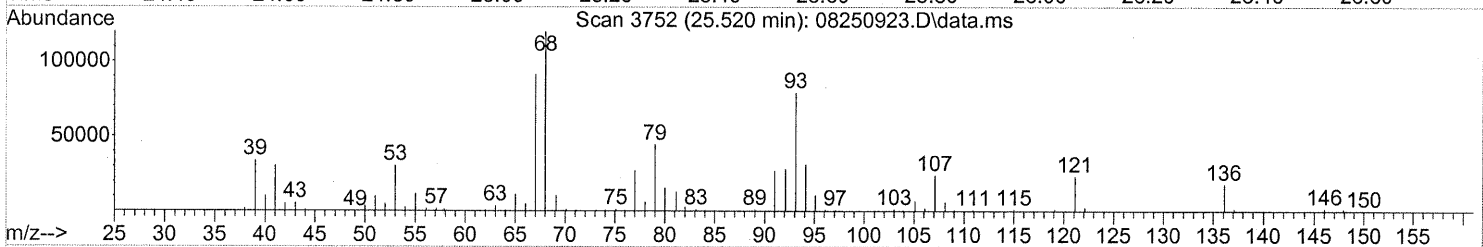
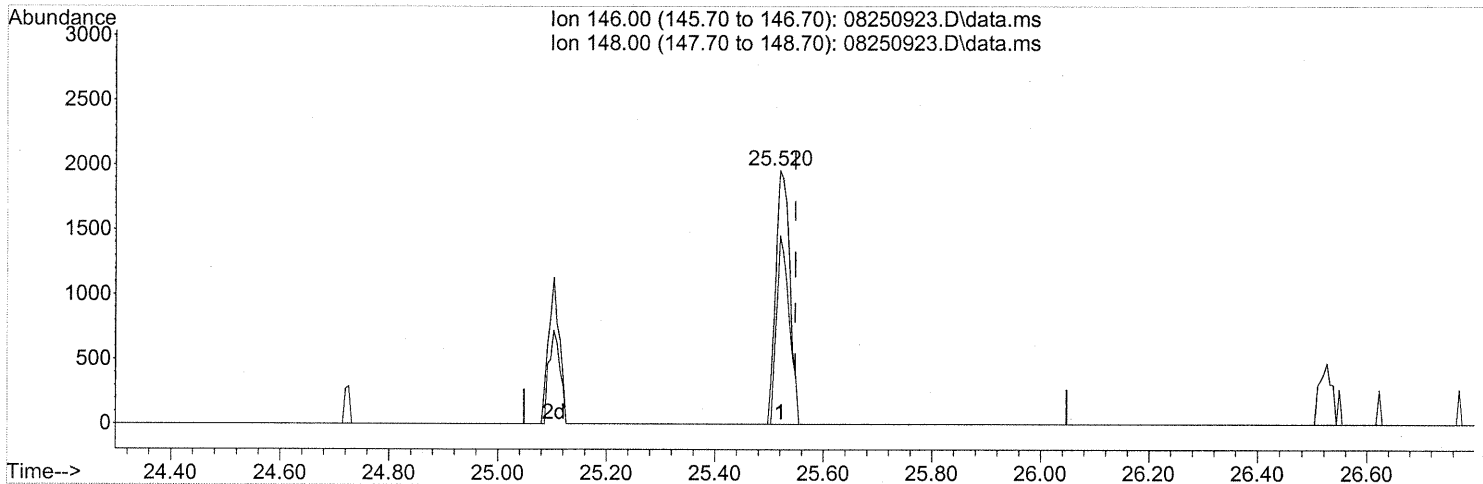
response 145454

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.520min (-0.028) 0.18ng

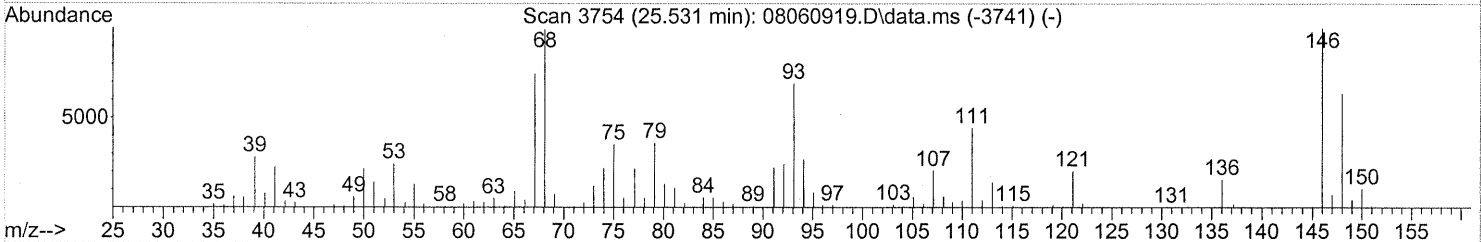
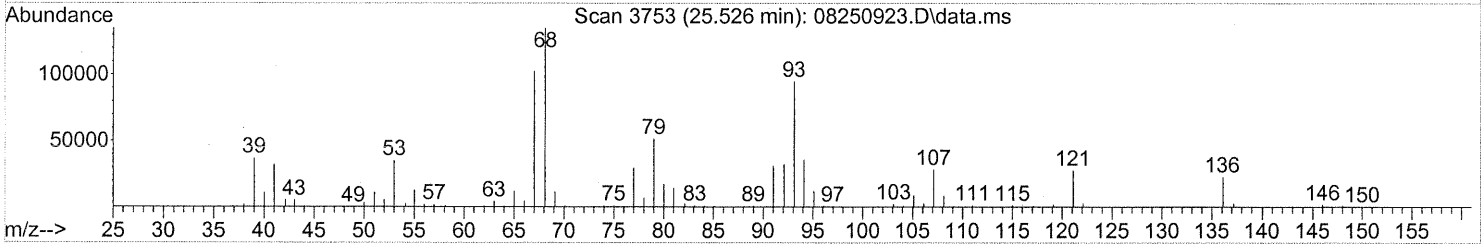
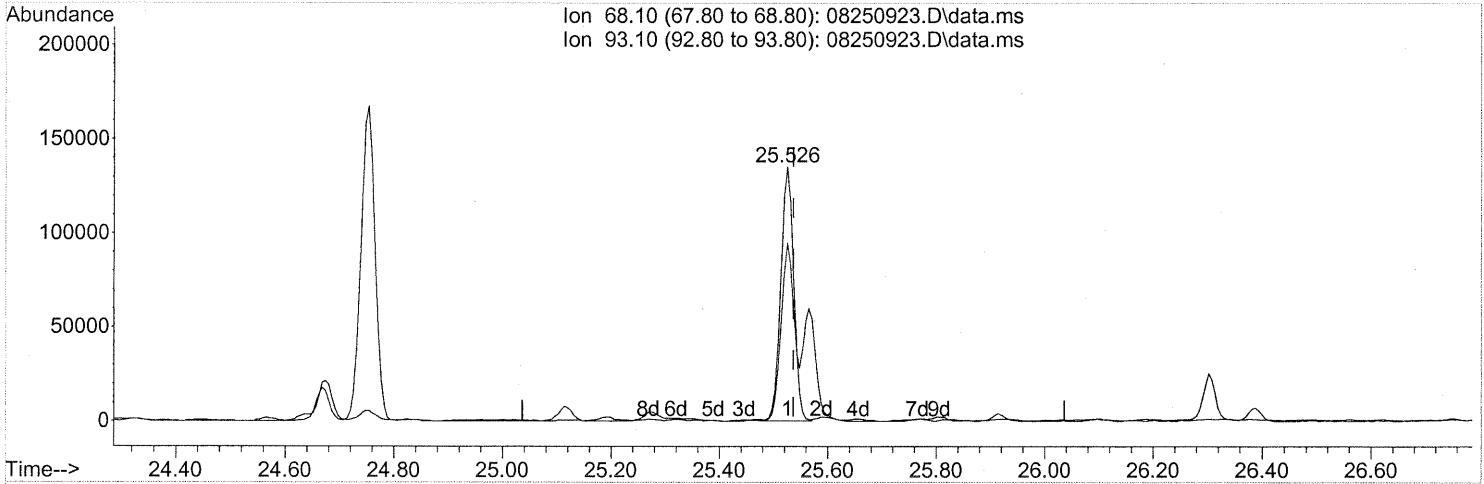
response 3552

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	66.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

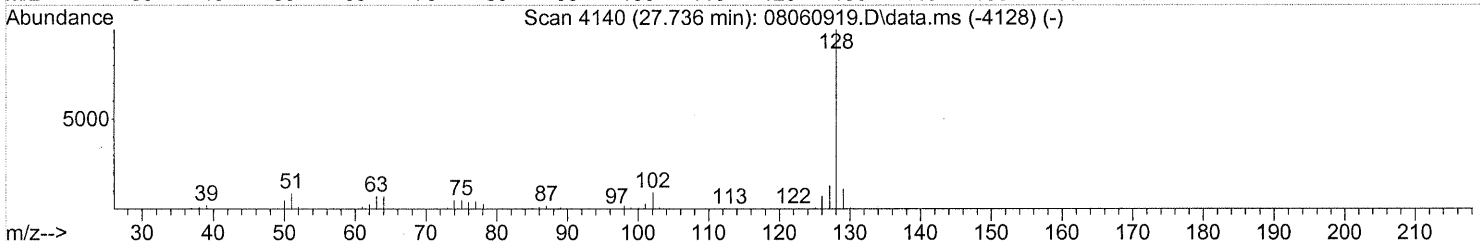
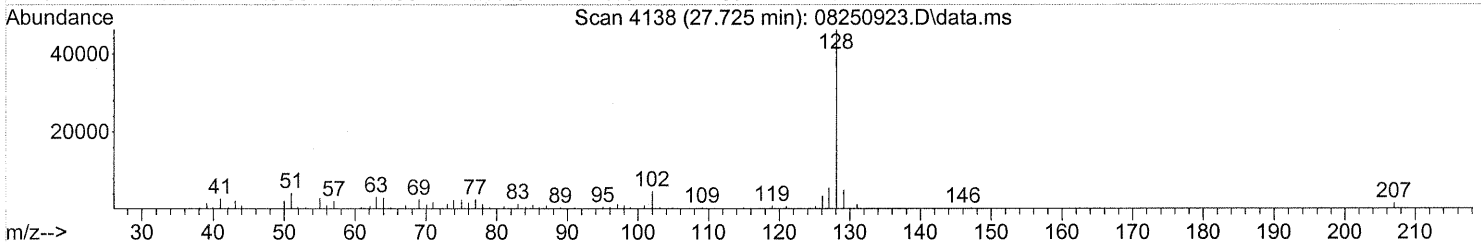
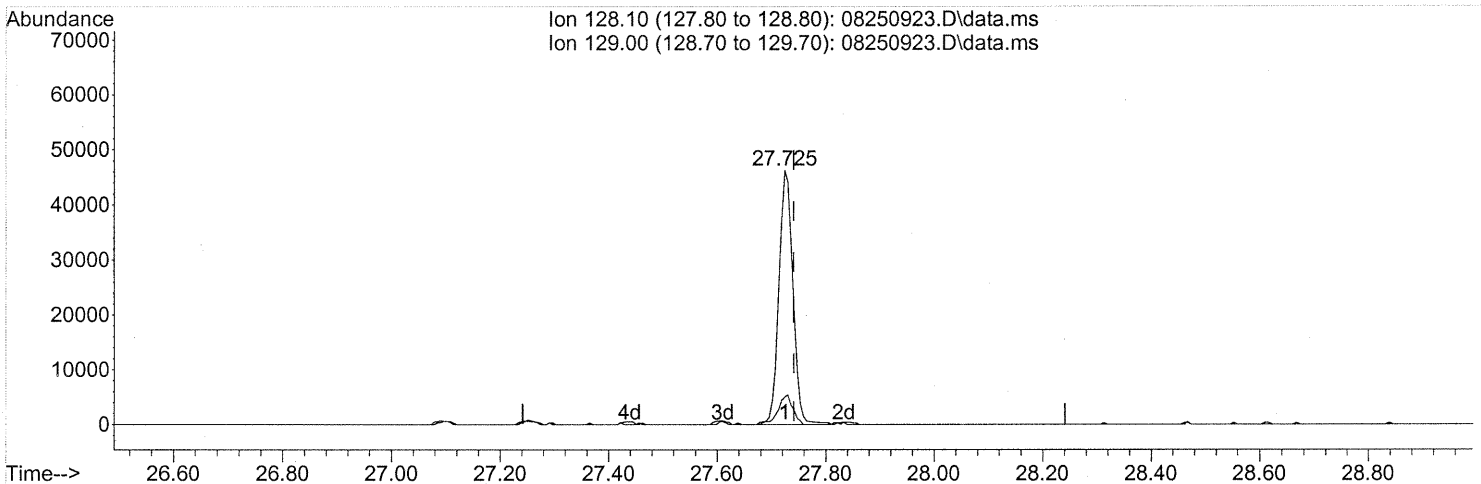
(91) d-Limonene (T)
 25.526min (-0.011) 12.95ng
 response 223562

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	73.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250923.D
 Acq On : 26 Aug 2009 2:28
 Operator : WA/CC
 Sample : P0902876-006 (1000mL)
 Misc : Environmental Health 102470
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 26 06:39:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250923.D\data.ms

(95) Naphthalene (T)

27.725min (-0.017) 1.50ng

response 82555

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	12.06
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: 102471
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01047

CAS Project ID: P0902876
CAS Sample ID: P0902876-007

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.79	ND	0.46	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.1	0.79	0.62	0.16	
74-87-3	Chloromethane	1.1	0.16	0.55	0.076	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.79	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.061	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.071	
74-83-9	Bromomethane	0.16	0.16	0.041	0.040	
75-00-3	Chloroethane	ND	0.16	ND	0.060	
64-17-5	Ethanol	130	7.9	69	4.2	
75-05-8	Acetonitrile	190	0.79	110	0.47	E
107-02-8	Acrolein	6.3	0.79	2.7	0.34	
67-64-1	Acetone	150	7.9	62	3.3	
75-69-4	Trichlorofluoromethane	1.4	0.16	0.25	0.028	
67-63-0	2-Propanol (Isopropyl Alcohol)	10	0.79	4.3	0.32	
107-13-1	Acrylonitrile	ND	0.79	ND	0.36	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.040	
75-09-2	Methylene Chloride	ND	0.79	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
76-13-1	Trichlorotrifluoroethane	0.69	0.16	0.090	0.020	
75-15-0	Carbon Disulfide	9.4	0.79	3.0	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.040	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.039	
1634-04-4	Methyl tert-Butyl Ether	0.57	0.16	0.16	0.044	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	2-Butanone (MEK)	5.8	0.79	2.0	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.

E = Estimated; concentration exceeded calibration range.

Verified By: _____

Date: _____

9/8/09

296

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102471
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01047

CAS Project ID: P0902876
CAS Sample ID: P0902876-007

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.040	
141-78-6	Ethyl Acetate	1.2	0.79	0.34	0.22	
110-54-3	n-Hexane	11	0.79	3.0	0.22	
67-66-3	Chloroform	0.22	0.16	0.045	0.032	
109-99-9	Tetrahydrofuran (THF)	1.0	0.79	0.35	0.27	
107-06-2	1,2-Dichloroethane	3.2	0.16	0.78	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	Benzene	2.4	0.16	0.75	0.049	
56-23-5	Carbon Tetrachloride	0.57	0.16	0.090	0.025	
110-82-7	Cyclohexane	1.8	0.79	0.53	0.23	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.034	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.023	
79-01-6	Trichloroethene	ND	0.16	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.79	ND	0.22	
80-62-6	Methyl Methacrylate	ND	0.79	ND	0.19	
142-82-5	n-Heptane	3.1	0.79	0.76	0.19	
10061-01-5	cis-1,3-Dichloropropene	2.2	0.79	0.49	0.17	
108-10-1	4-Methyl-2-pentanone	0.92	0.79	0.22	0.19	
10061-02-6	trans-1,3-Dichloropropene	1.8	0.79	0.39	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	20	0.79	5.2	0.21	
591-78-6	2-Hexanone	1.4	0.79	0.35	0.19	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	2.9	0.79	0.61	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: _____

9/8/09

297

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102471
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01047

CAS Project ID: P0902876
 CAS Sample ID: P0902876-007

Date Collected: 8/19/09
 Date Received: 8/20/09
 Date Analyzed: 8/26/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.1 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.57

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.8	0.79	0.38	0.17	
127-18-4	Tetrachloroethene	0.44	0.16	0.064	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	Ethylbenzene	4.1	0.79	0.94	0.18	
179601-23-1	m,p-Xylenes	7.6	0.79	1.8	0.18	
75-25-2	Bromoform	ND	0.79	ND	0.076	
100-42-5	Styrene	5.6	0.79	1.3	0.18	
95-47-6	o-Xylene	3.8	0.79	0.88	0.18	
111-84-2	n-Nonane	1.3	0.79	0.26	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	ND	0.023	
98-82-8	Cumene	ND	0.79	ND	0.16	
80-56-8	alpha-Pinene	92	0.79	16	0.14	
103-65-1	n-Propylbenzene	1.1	0.79	0.23	0.16	
622-96-8	4-Ethyltoluene	1.4	0.79	0.28	0.16	
108-67-8	1,3,5-Trimethylbenzene	1.7	0.79	0.35	0.16	
95-63-6	1,2,4-Trimethylbenzene	5.4	0.79	1.1	0.16	
100-44-7	Benzyl Chloride	ND	0.16	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.16	ND	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.16	ND	0.026	
95-50-1	1,2-Dichlorobenzene	0.30	0.16	0.050	0.026	
5989-27-5	d-Limonene	17	0.79	3.1	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	ND	0.081	
120-82-1	1,2,4-Trichlorobenzene	ND	0.79	ND	0.11	
91-20-3	Naphthalene	2.5	0.79	0.48	0.15	
87-68-3	Hexachlorobutadiene	ND	0.79	ND	0.074	

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: _____

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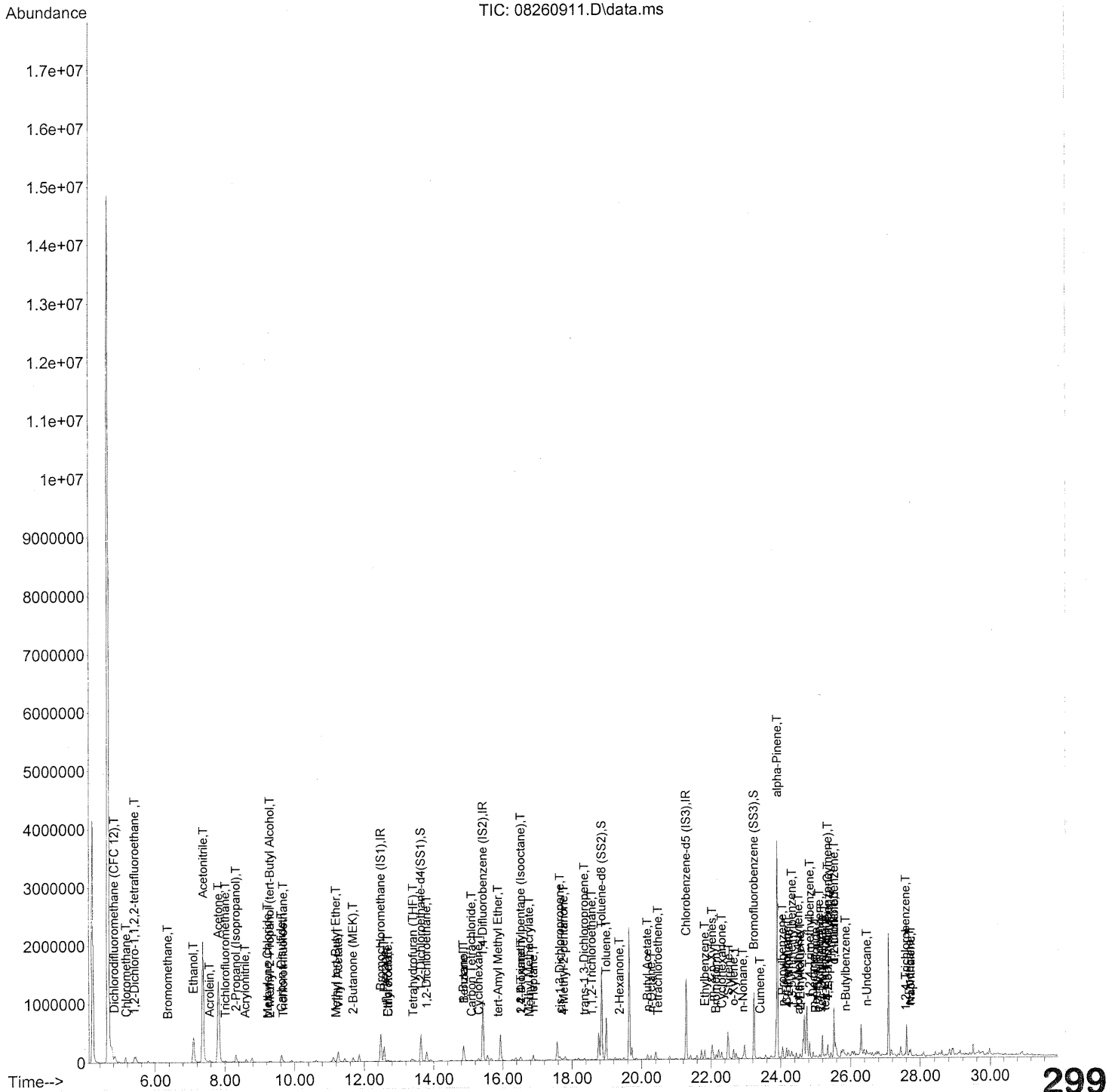
Date: _____

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298

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 5:25 pm
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 17:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 5:25 pm
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
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Quant Time: Sep 01 17:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

17 9/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	238666	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1194964	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	580502	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	460234	22.186	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.76%	✓
57) Toluene-d8 (SS2)	18.85	98	1299223	25.614	ng	-0.02
Spiked Amount	25.000		Recovery	=	102.44%	✓
73) Bromofluorobenzene (SS3)	23.23	174	373878	27.951	ng	-0.01
Spiked Amount	25.000		Recovery	=	111.80%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	<u>4.83</u>	85	52538	<u>1.963</u>	ng	98
4) Chloromethane	<u>5.17</u>	50	13092	<u>0.728</u>	ng	90
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	684	0.063	ng #	44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.86	54	109	N.D.		
8) Bromomethane	<u>6.36</u>	94	1070	<u>0.102</u>	ng	81
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	<u>7.10</u>	45	858238	<u>82.671</u>	ng	100
11) Acetonitrile	7.38	41	3671632	120.766	ng	100
12) Acrolein	<u>7.56</u>	56	31679	<u>4.009</u>	ng	99
13) Acetone	<u>7.81</u>	58	919837	<u>93.906</u>	ng	97
14) Trichlorofluoromethane	<u>8.01</u>	101	21332	<u>0.881</u>	ng	99
15) 2-Propanol (Isopropanol)	<u>8.32</u>	45	257020	<u>6.677</u>	ng	99
16) Acrylonitrile	8.58	53	2169	<u>0.123</u>	ng #	50
17) 1,1-Dichloroethene	9.03	96	96	N.D.		
18) 2-Methyl-2-Propanol (t...	9.29	59	9458	0.277	ng #	1
19) Methylene Chloride	9.23	84	2059	0.157	ng #	1
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	<u>9.67</u>	151	3841	<u>0.437</u>	ng	100
22) Carbon Disulfide	<u>9.63</u>	76	277370	<u>5.981</u>	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	<u>11.19</u>	73	13324	<u>0.360</u>	ng	94
26) Vinyl Acetate	<u>11.25</u>	86	12618	<u>6.330</u>	ng	31
27) 2-Butanone (MEK)	<u>11.68</u>	72	32481	<u>3.673</u>	ng	87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.68	87	95	N.D.		
30) Ethyl Acetate	<u>12.68</u>	61	3576	<u>0.776</u>	ng	95
31) n-Hexane	<u>12.58</u>	57	160850	<u>6.825</u>	ng	99

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Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 5:25 pm
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 17:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	2893	0.139	ng	96
34) Tetrahydrofuran (THF)	13.40	72	6108	0.648	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	38254	2.017	ng	98
38) 1,1,1-Trichloroethane	14.16	97	218	N.D.		
39) Isopropyl Acetate	14.87	61	215	N.D.		
40) 1-Butanol	14.86	56	182766	11.785	ng #	78
41) Benzene	14.87	78	79660	1.516	ng	99
42) Carbon Tetrachloride	15.09	117	6047	0.361	ng	95
43) Cyclohexane	15.29	84	22203	1.154	ng	94
44) tert-Amyl Methyl Ether	15.86	73	2396	0.061	ng #	46
45) 1,2-Dichloropropane	15.93	63	361	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.45	130	120	N.D.		
48) 1,4-Dioxane	16.53	88	1230	0.123	ng #	1
49) 2,2,4-Trimethylpentane...	16.52	57	56583	0.914	ng	84
50) Methyl Methacrylate	16.76	100	291	0.060	ng #	1
51) n-Heptane	16.88	71	28011	1.987	ng	98
52) cis-1,3-Dichloropropene	17.65	75	31278	1.430	ng	98
53) 4-Methyl-2-pentanone	17.76	58	7418	0.587	ng	91
54) trans-1,3-Dichloropropene	18.35	75	23572	1.134	ng	99
55) 1,1,2-Trichloroethane	18.56	97	663	0.057	ng #	1
58) Toluene	18.98	91	625678	12.551	ng	99
59) 2-Hexanone	19.36	43	30422	0.918	ng	99
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	72515	1.856	ng	93
63) n-Octane	20.28	57	13700	1.137	ng	95
64) Tetrachloroethene	20.47	166	3210	0.278	ng	92
65) Chlorobenzene	21.35	112	683	N.D.		
66) Ethylbenzene	21.82	91	148524	2.606	ng	99
67) m- & p-Xylenes	22.03	91	223336	4.845	ng	97
68) Bromoform	22.13	173	801	0.082	ng #	49
69) Styrene	22.50	104	119187	3.577	ng	98
70) o-Xylene	22.65	91	112690	2.438	ng	99
71) n-Nonane	22.91	43	26204	0.853	ng	92
72) 1,1,2,2-Tetrachloroethane	22.64	83	790	N.D.		
74) Cumene	23.41	105	15724	0.269	ng	97
75) alpha-Pinene	23.90	93	1746885	58.373	ng	84
76) n-Propylbenzene	24.05	91	52125	0.710	ng #	78
77) 3-Ethyltoluene	24.17	105	115468	2.070	ng	100
78) 4-Ethyltoluene	24.22	105	47953	0.887	ng	97
79) 1,3,5-Trimethylbenzene	24.31	105	49616	1.088	ng	103

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 5:25 pm
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 17:02:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

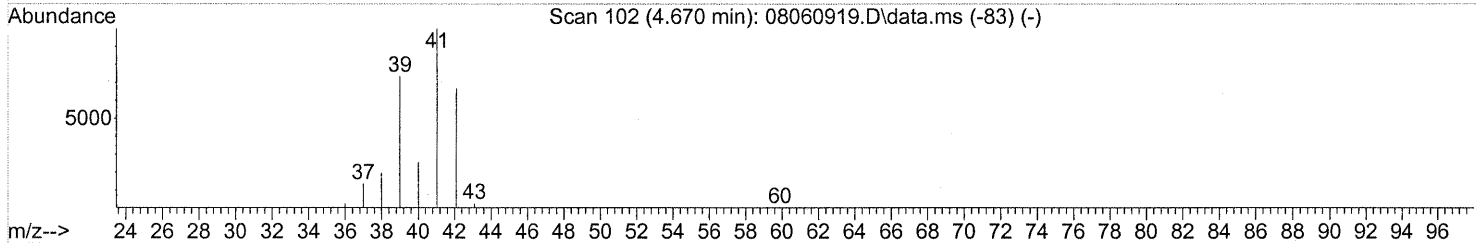
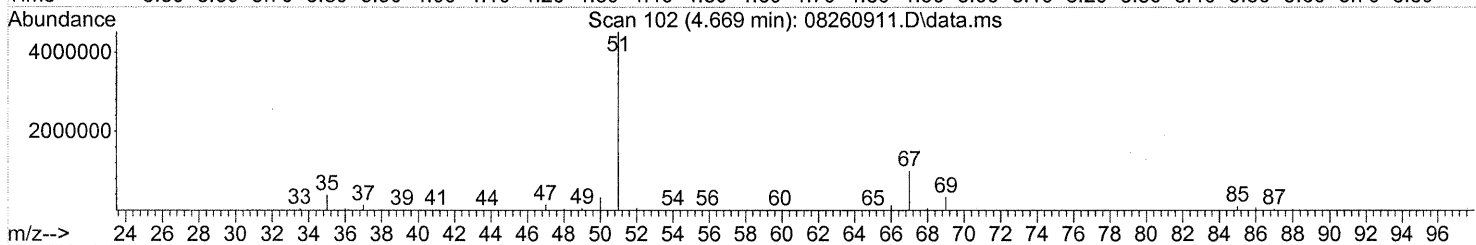
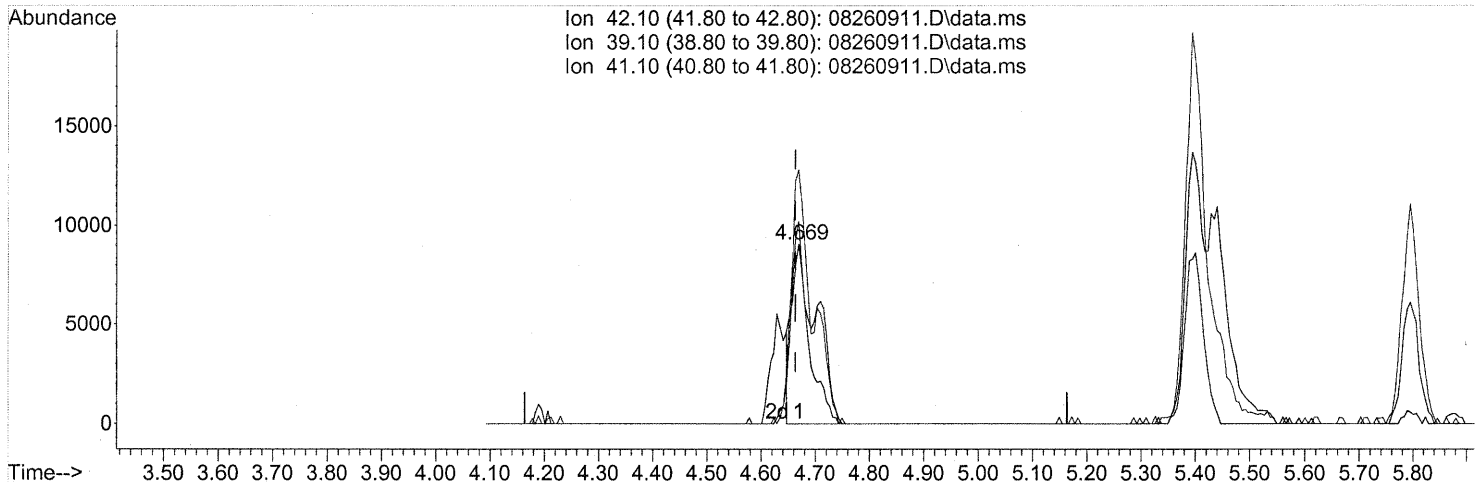
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	2331	0.095	ng	98
81) 2-Ethyltoluene	24.55	105	46375	0.824	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	159144	3.422	ng	90
83) n-Decane	24.93	57	46763	1.547	ng	93
84) Benzyl Chloride	25.00	91	3272	0.075	ng	78
85) 1,3-Dichlorobenzene	25.02	146	309	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	2038	0.081	ng	97
87) sec-Butylbenzene	25.17	105	4949	0.079	ng	# 72
88) 4-Isopropyltoluene (p-...	25.35	119	79199	1.414	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	42725	0.902	ng	NOT NEEDED 87
90) 1,2-Dichlorobenzene	25.53	146	4256	0.191	ng	100
91) d-Limonene	25.53	68	216715	0.960	ng	91
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	48711	1.514	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	1523	0.099	ng	# 86
95) Naphthalene	27.72	128	100173	1.586	ng	99
96) n-Dodecane	27.69	57	35463	0.949	ng	99
97) Hexachlorobutadiene	28.14	225	196	N.D.		
98) Cyclohexanone	22.30	55	68538	3.318	ng	94
99) tert-Butylbenzene	25.27	119	5421	0.120	ng	93
100) n-Butylbenzene	25.85	91	19105	0.369	ng	# 50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 01 14:31:22 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.669min (+0.006) 1.26ng

response 20577

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	150.09#
41.10	150.20	169.73
0.00	0.00	0.00

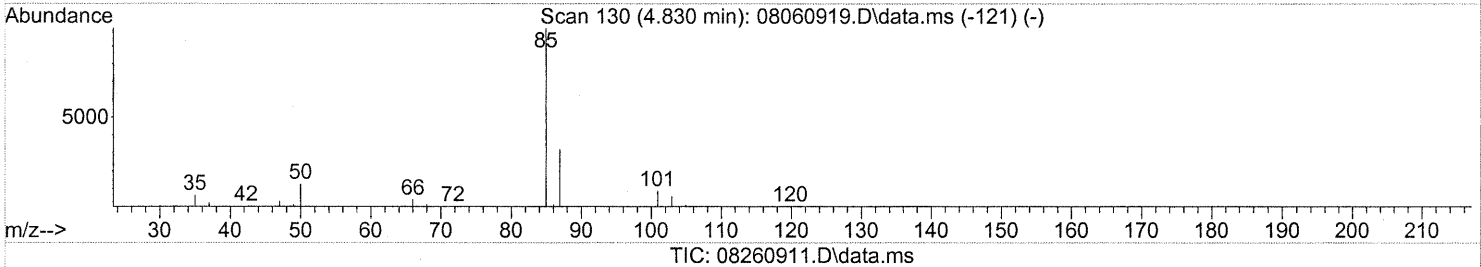
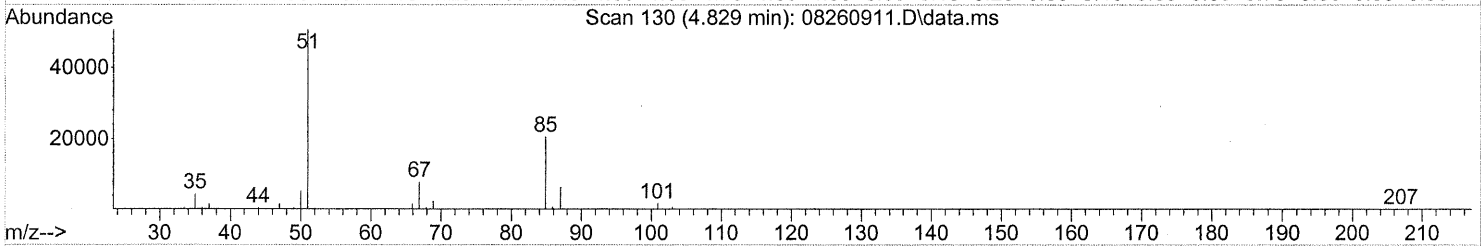
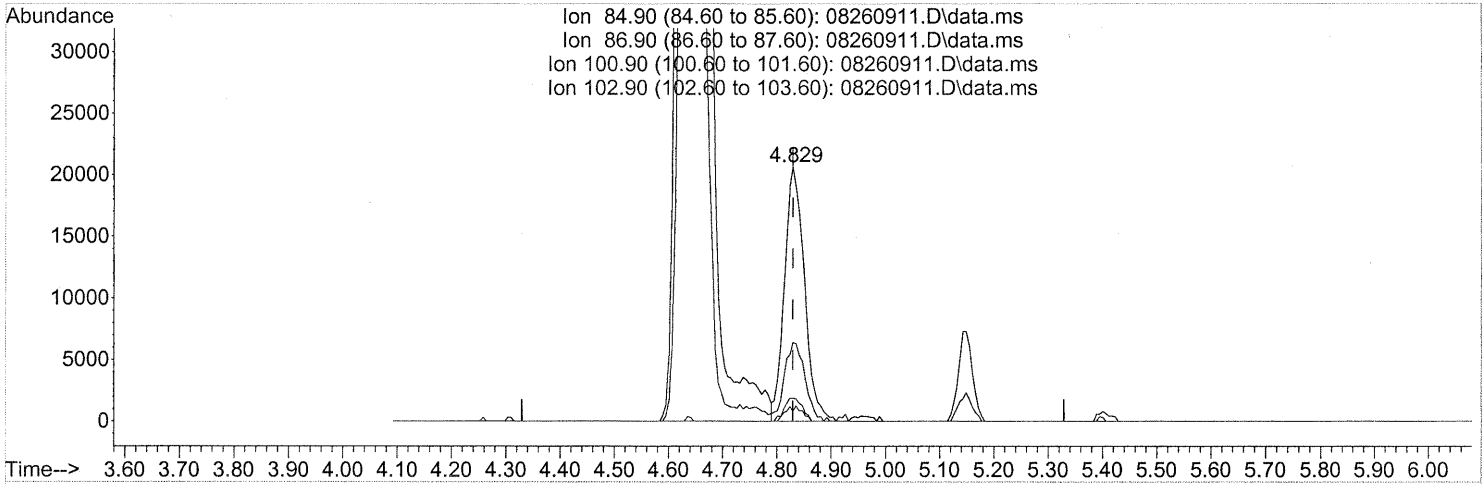
FP
11/9/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (-0.000) 1.96ng

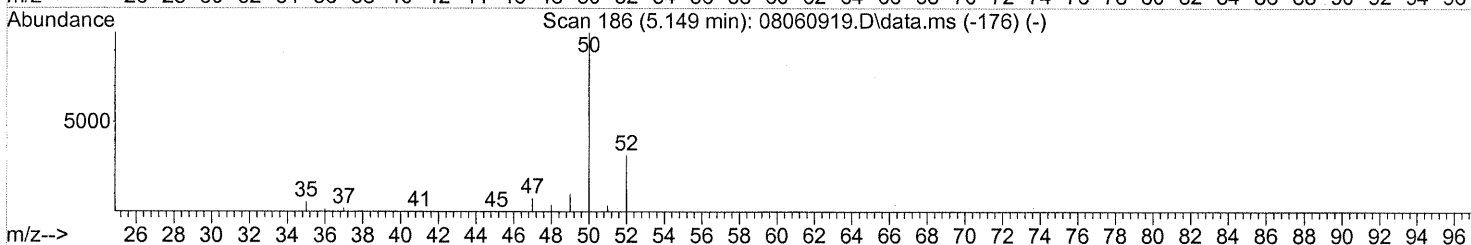
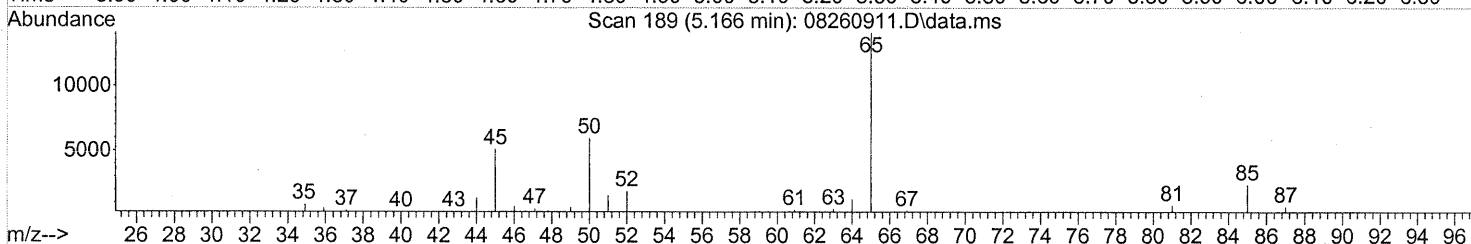
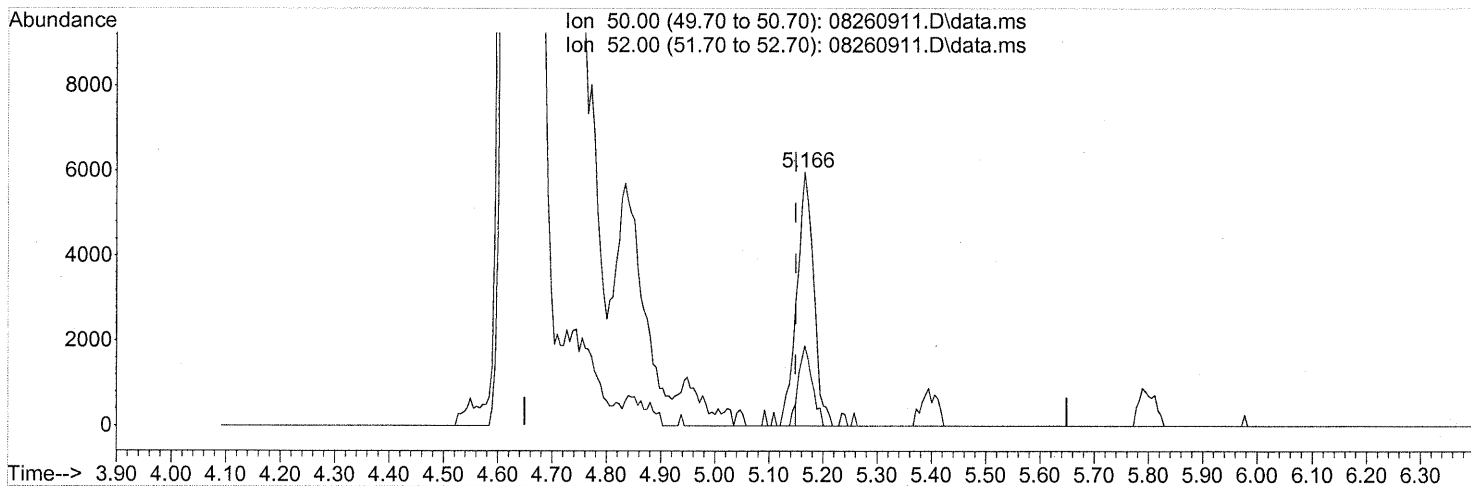
response 52538

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.84
100.90	8.80	8.10
102.90	5.20	4.76

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

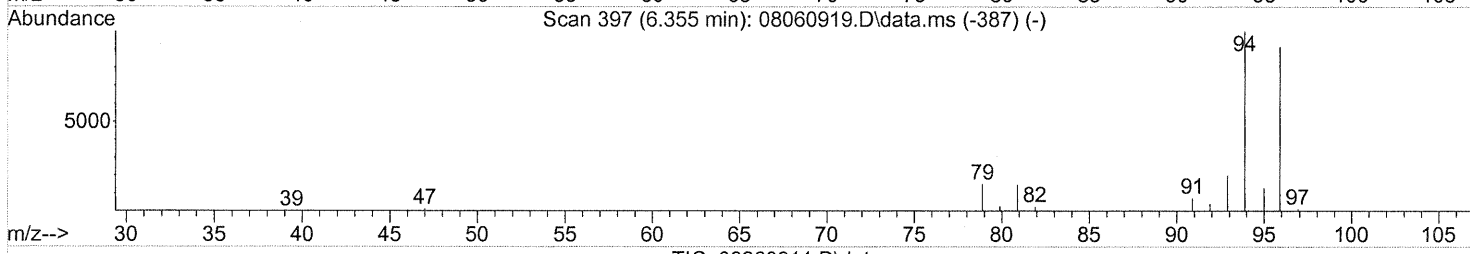
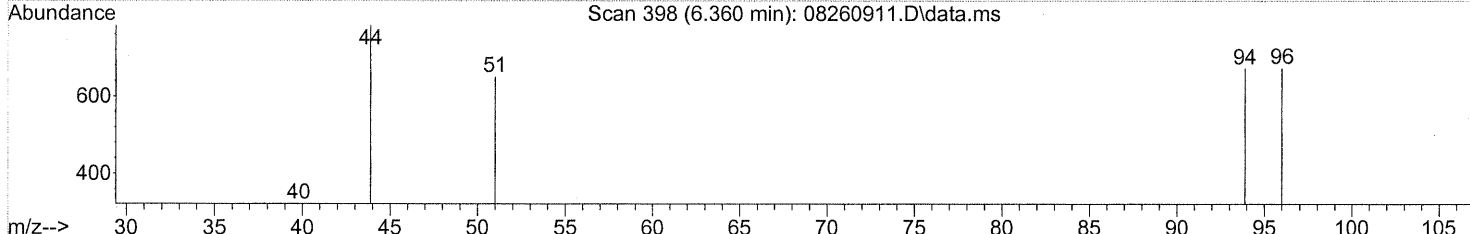
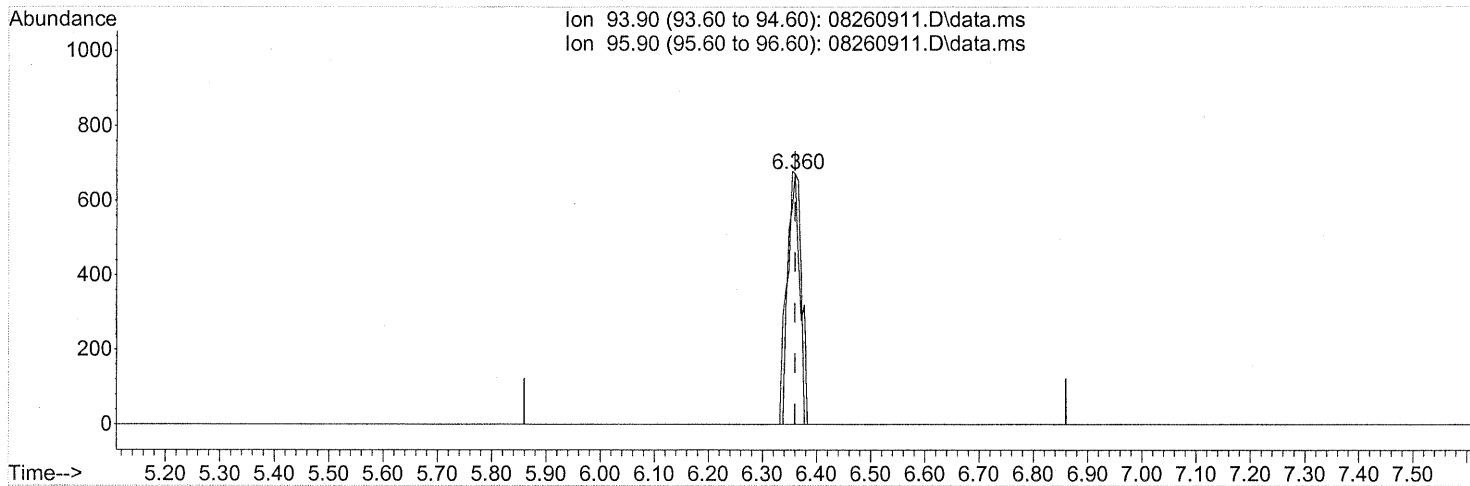
(4) Chloromethane (T)
 5.166min (+0.017) 0.73ng
 response 13092

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	25.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

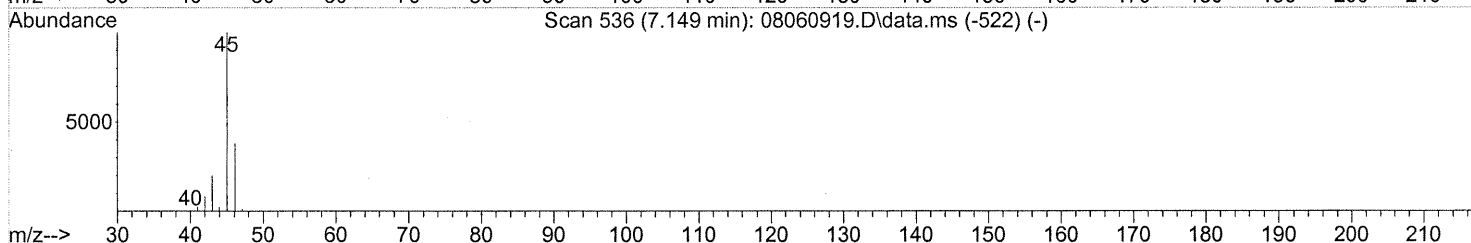
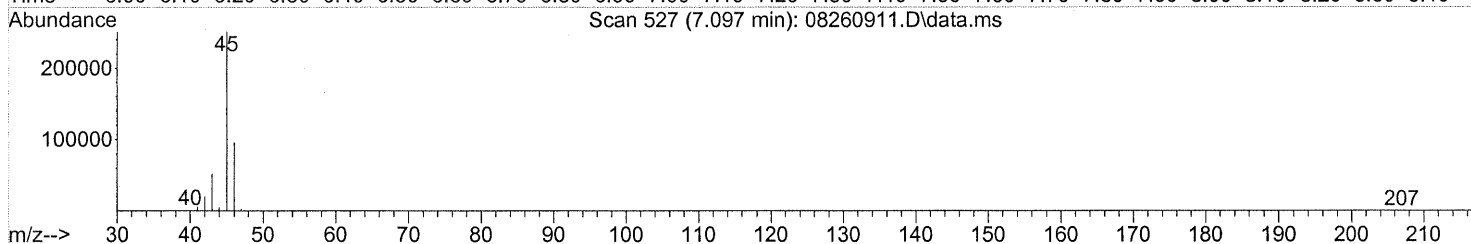
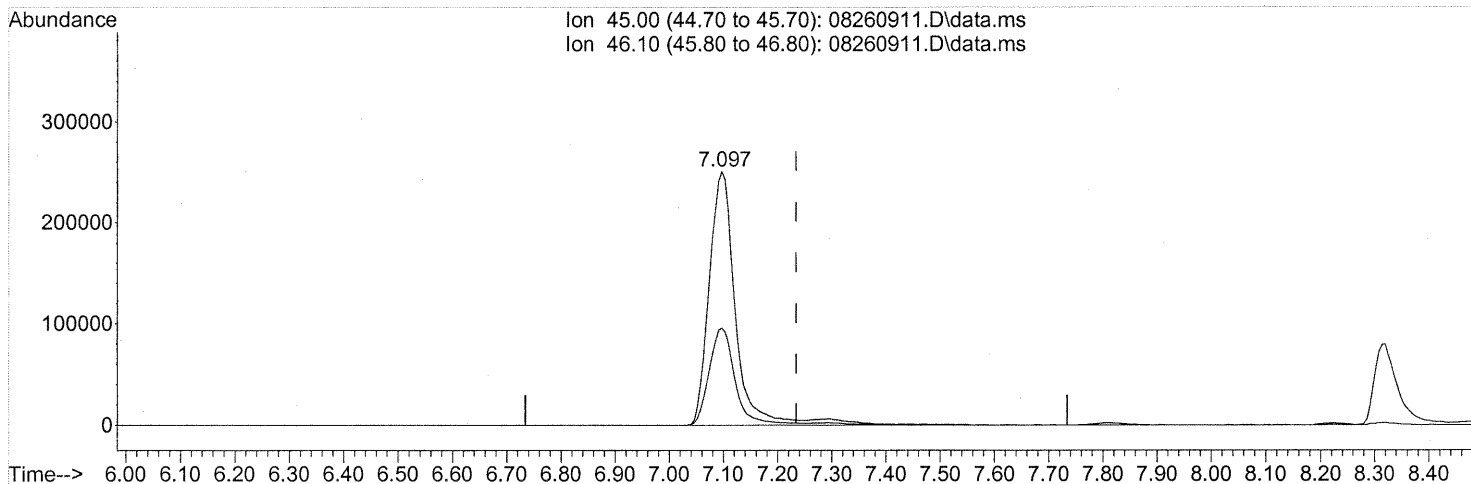
(8) Bromomethane (T)
 6.360min (-0.000) 0.10ng
 response 1070

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	110.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260911.D\data.ms

(10) Ethanol (T)

7.097min (-0.137) 82.67ng

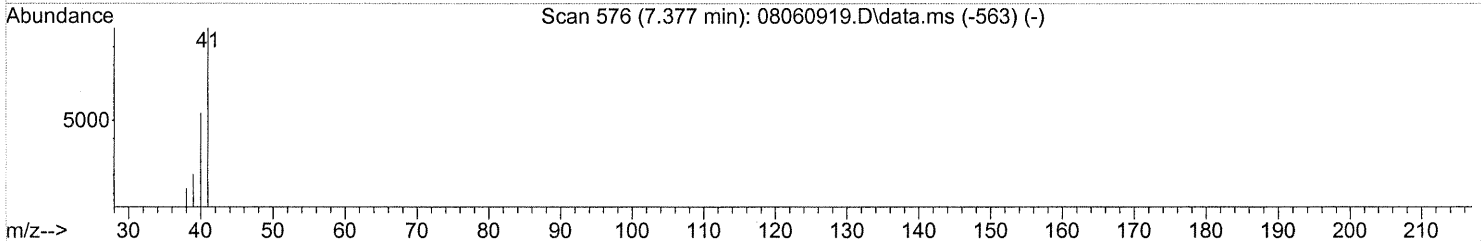
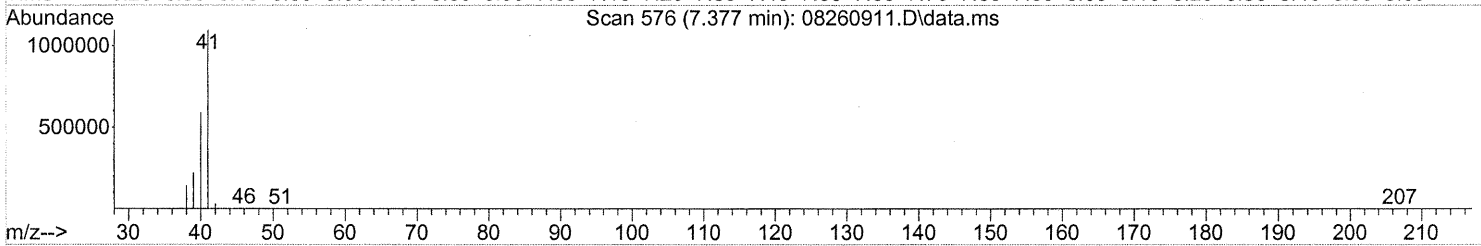
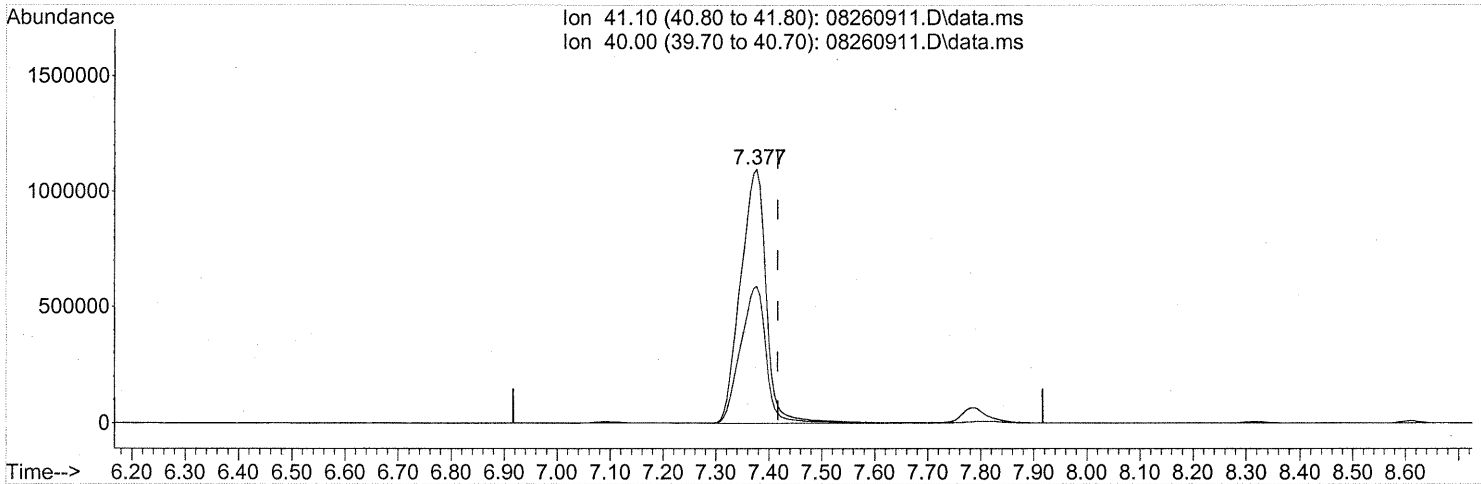
response 858238

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

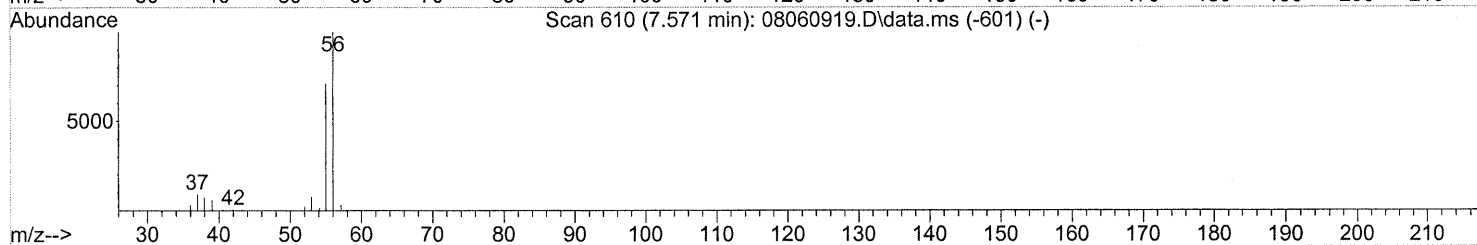
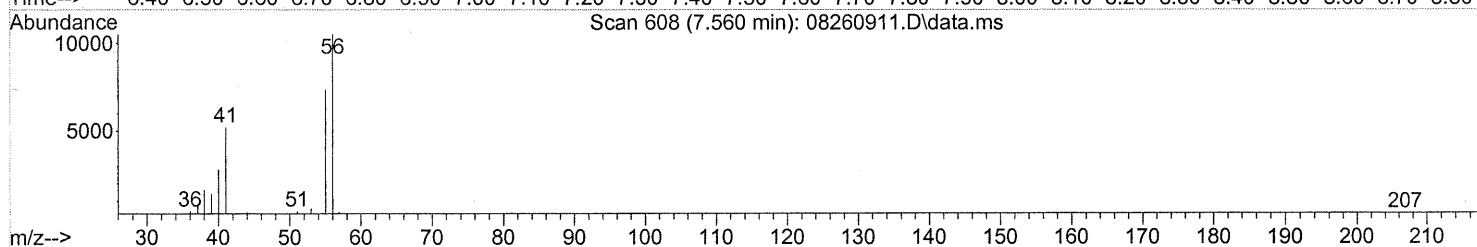
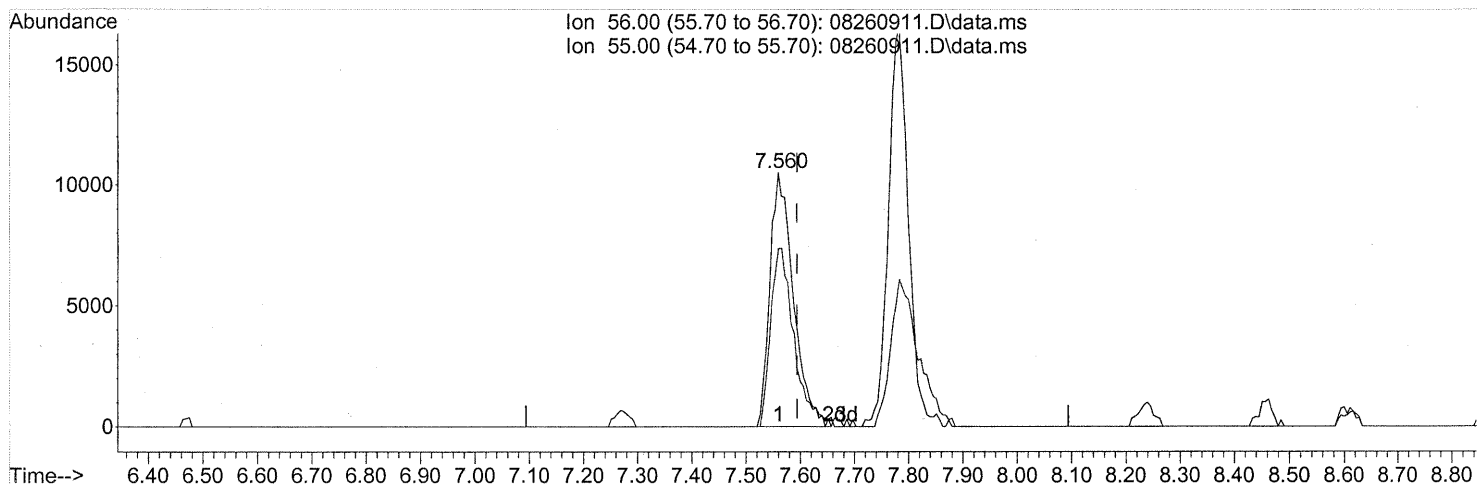
(11) Acetonitrile (T)
 7.377min (-0.040) 120.77ng
 response 3671632

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(12) Acrolein (T)

7.560min (-0.034) 4.01ng

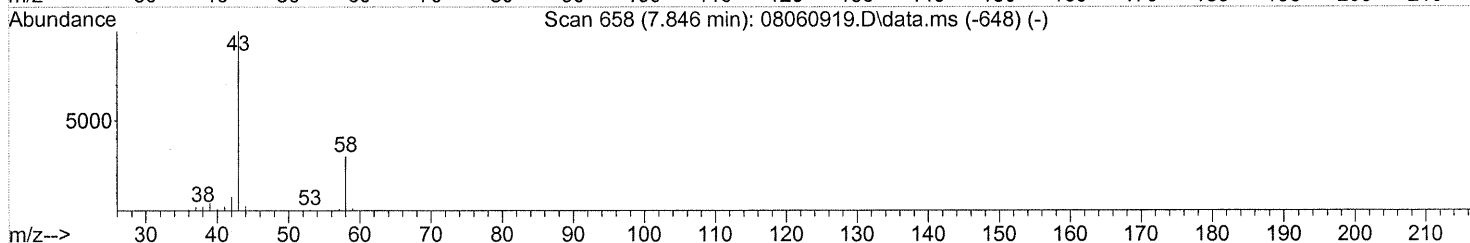
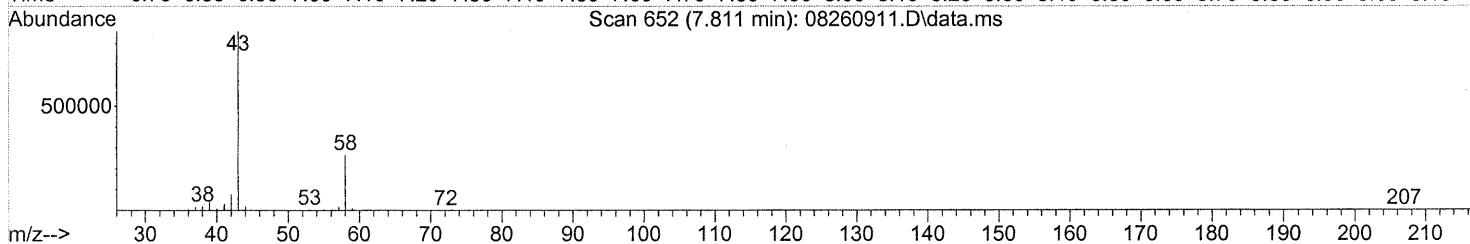
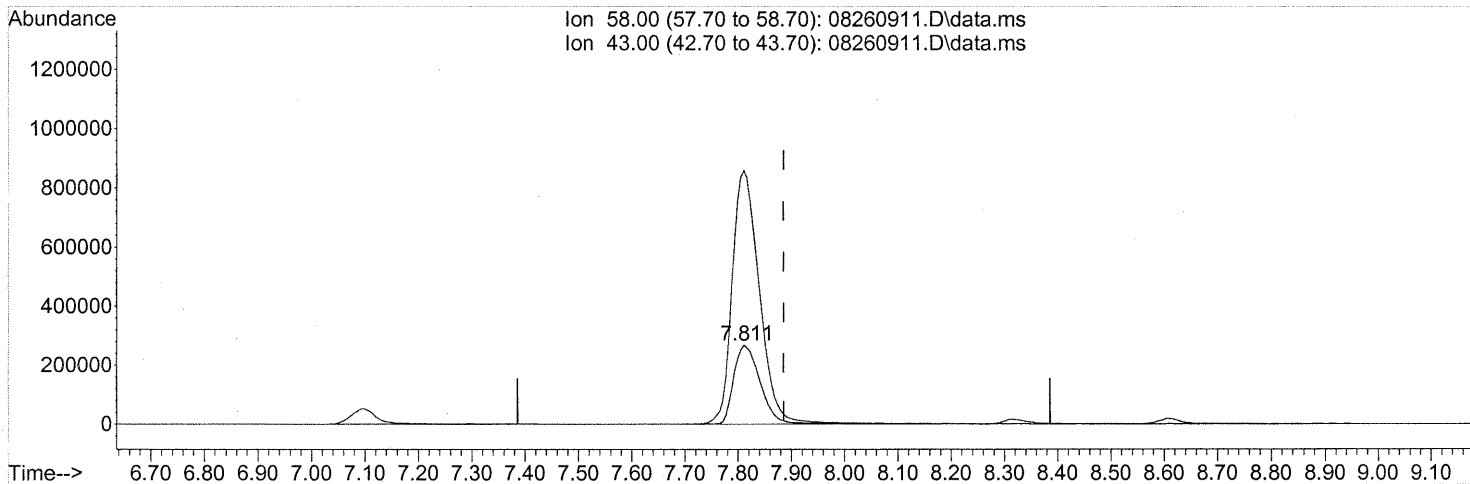
response 31679

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	68.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.811min (-0.075) 93.91ng

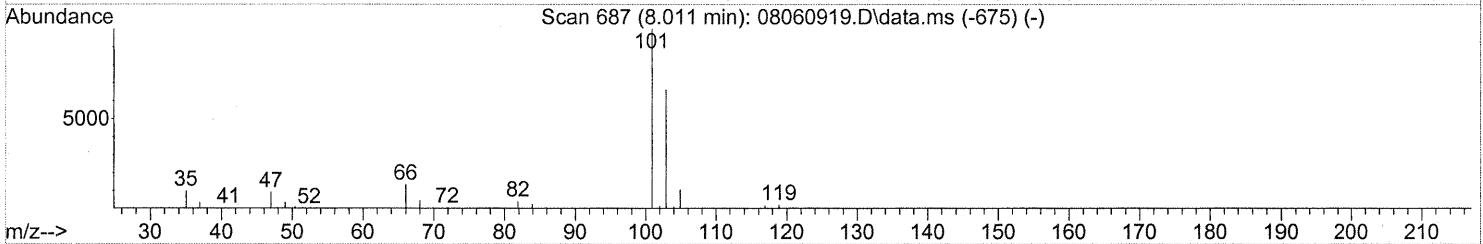
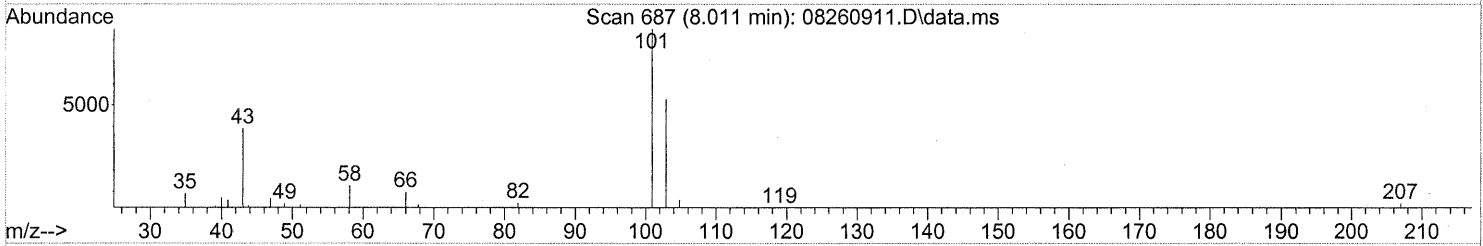
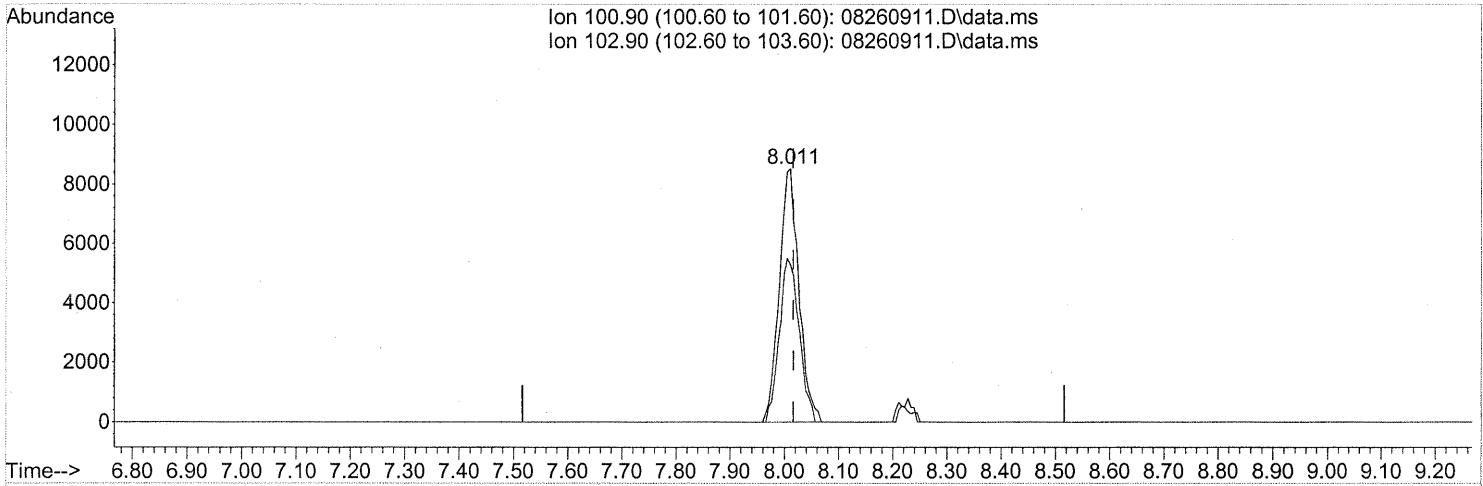
response 919837

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	333.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.88ng

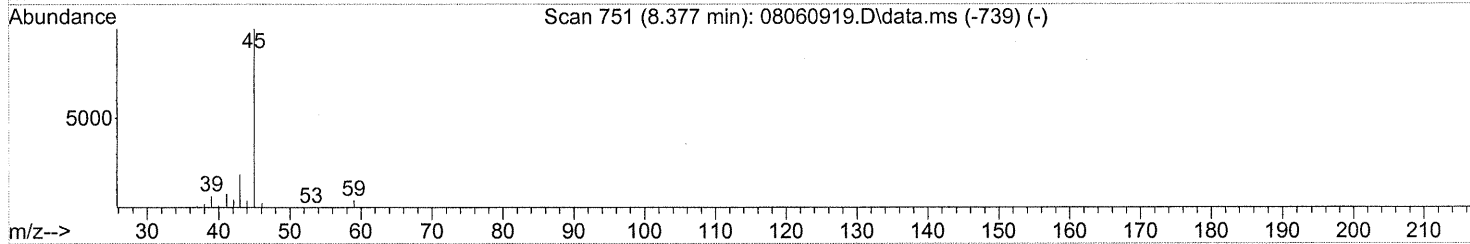
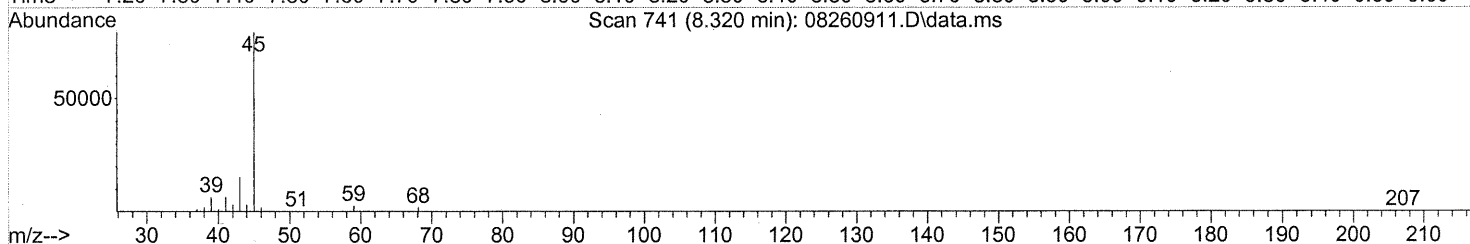
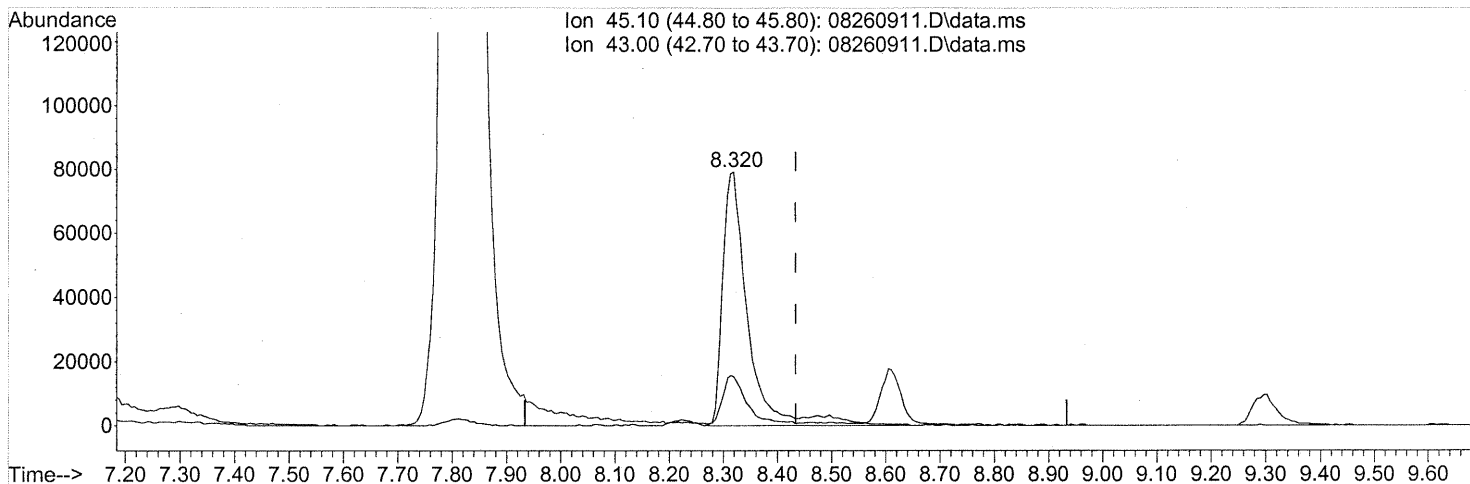
response 21332

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	65.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.320min (-0.114) 6.68ng

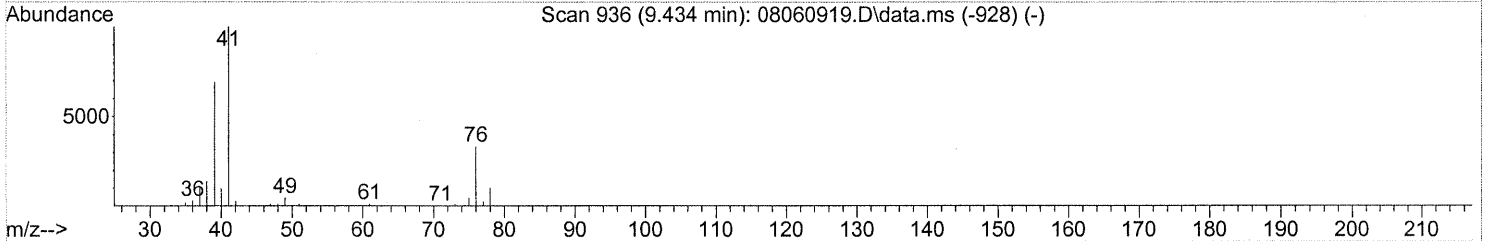
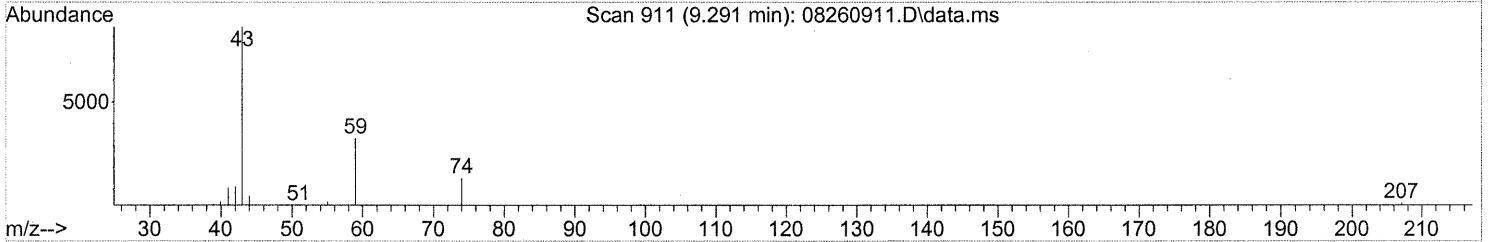
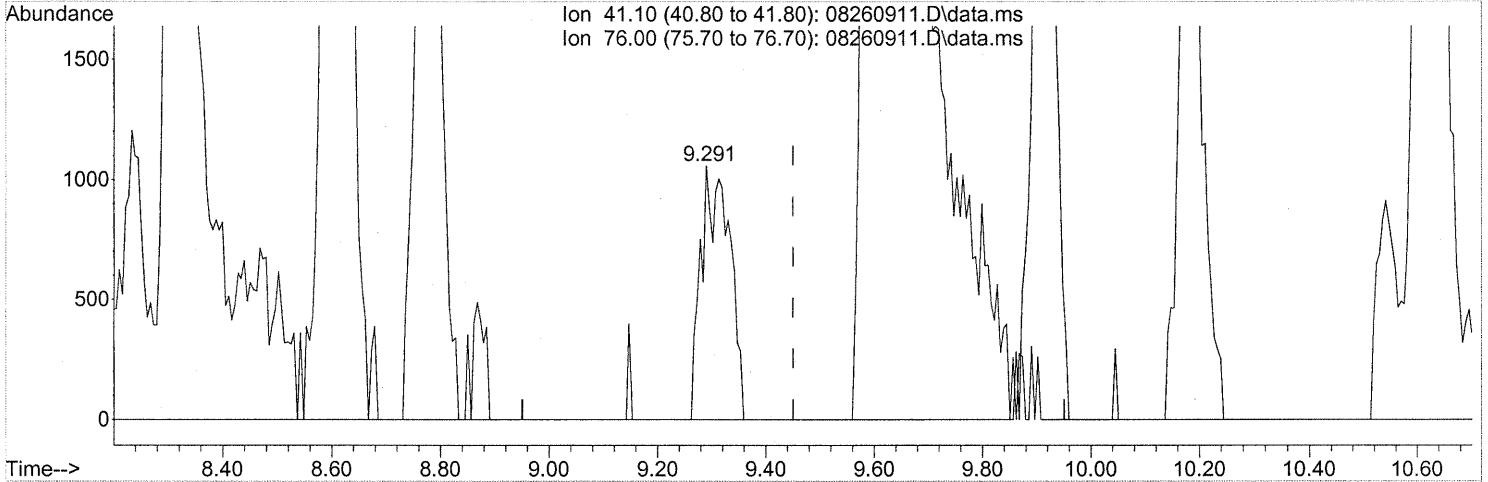
response 257020

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.291min (-0.160) 0.15ng

response 3871

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

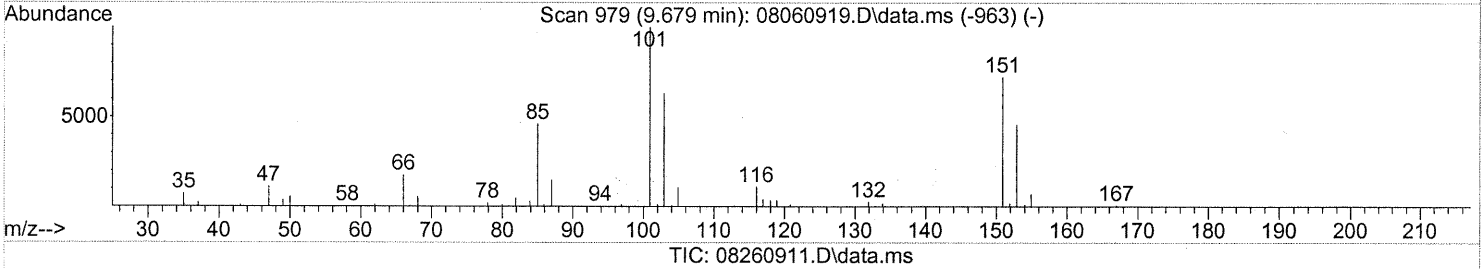
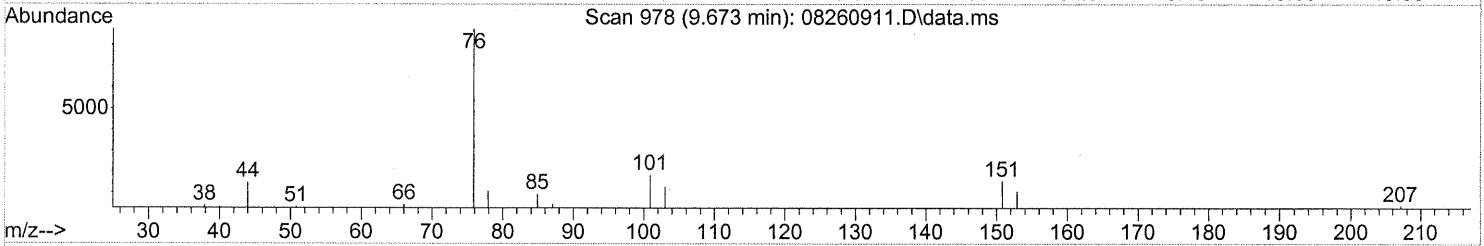
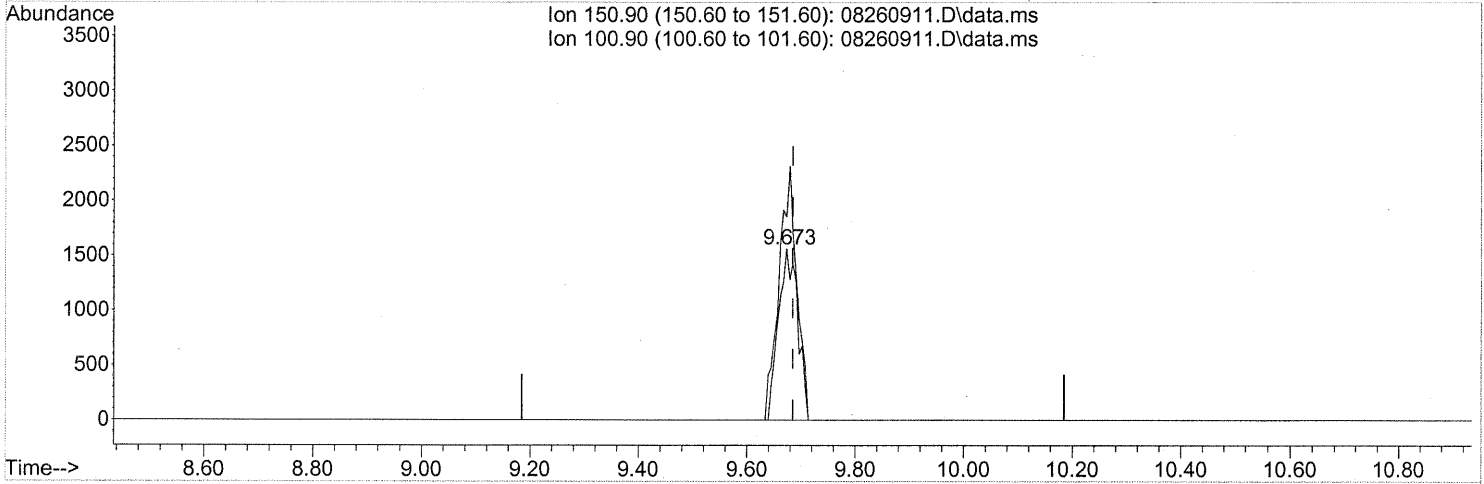
FP
17911/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.673min (-0.011) 0.44ng

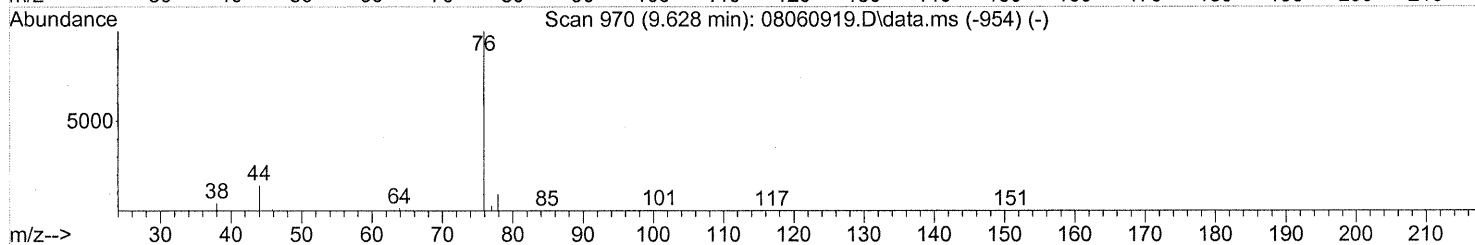
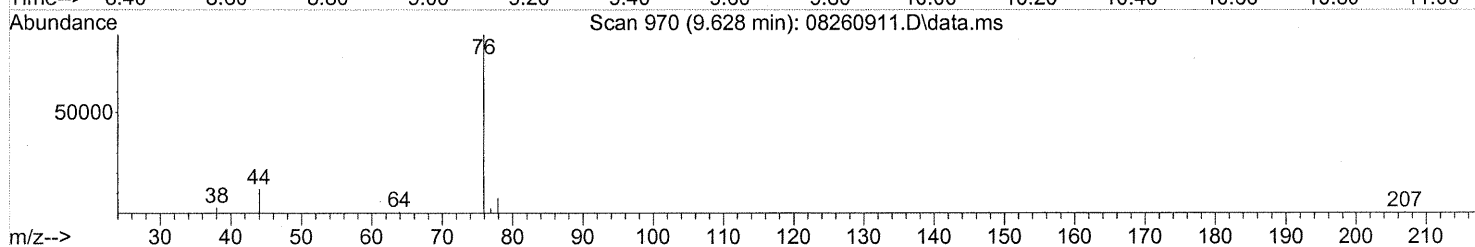
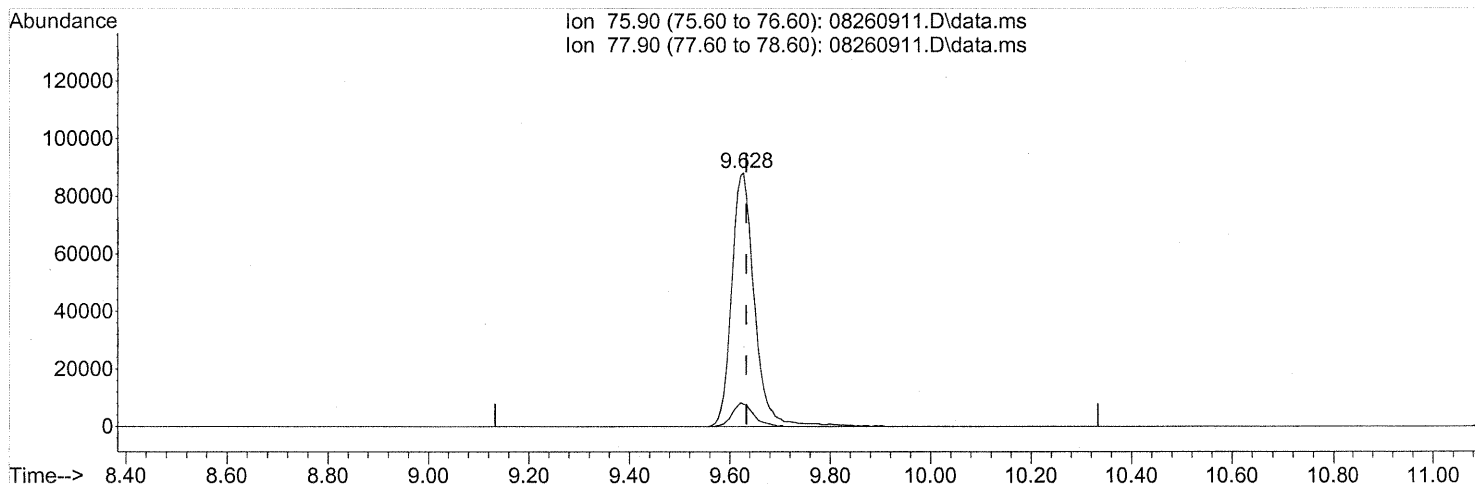
response 3841

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	137.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(22) Carbon Disulfide (T)

9.628min (-0.006) 5.98ng

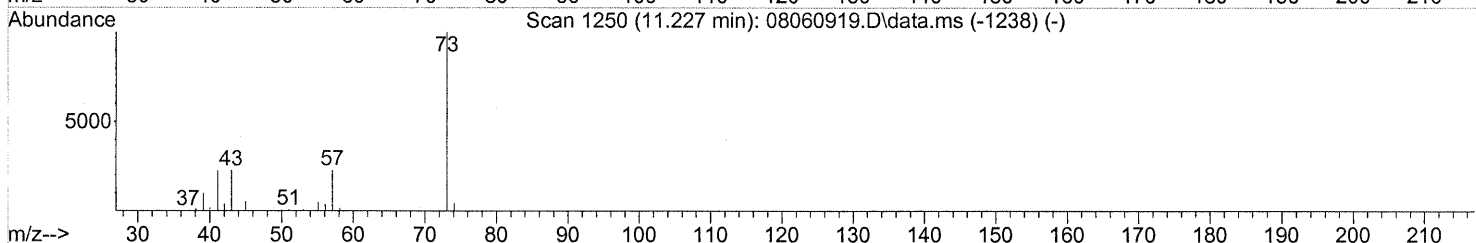
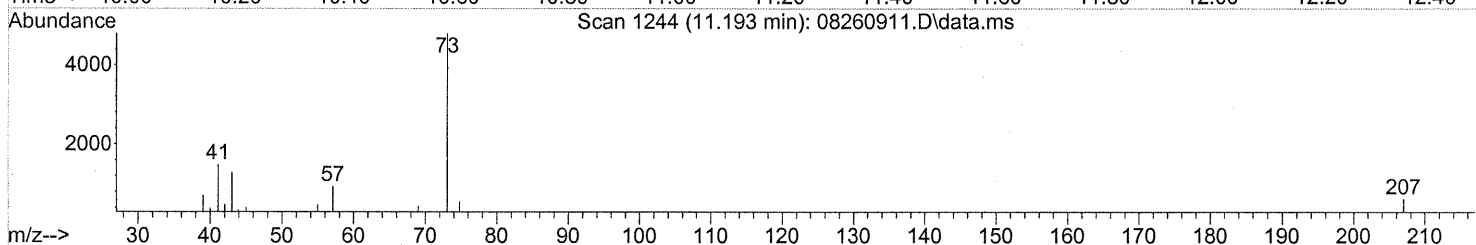
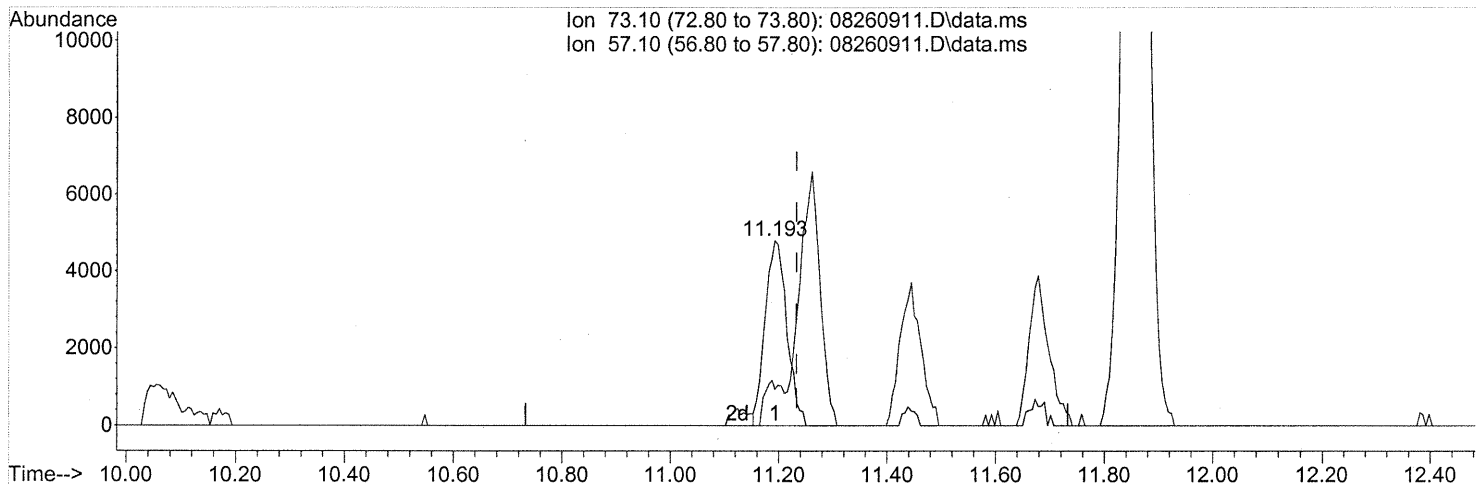
response 277370

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260911.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.193min (-0.040) 0.36ng

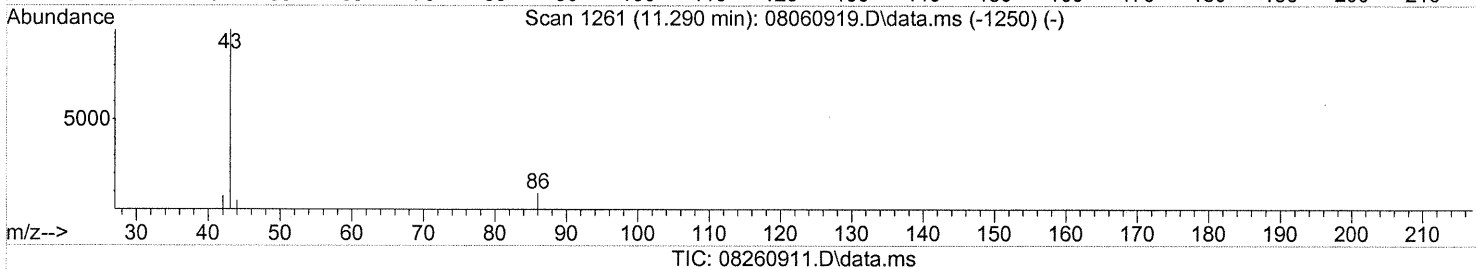
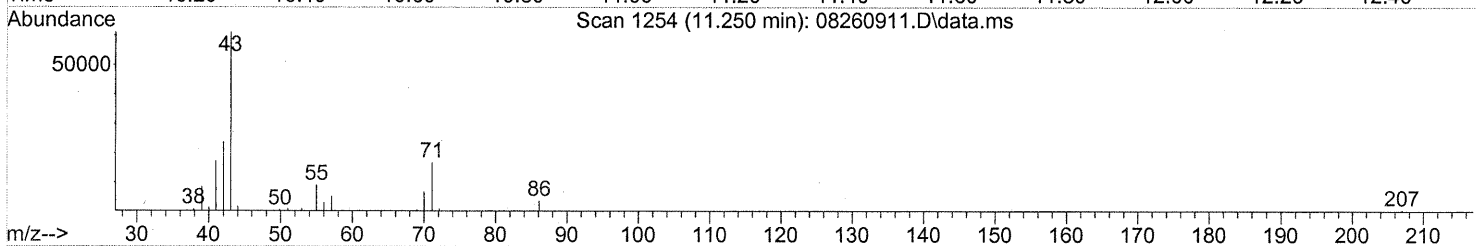
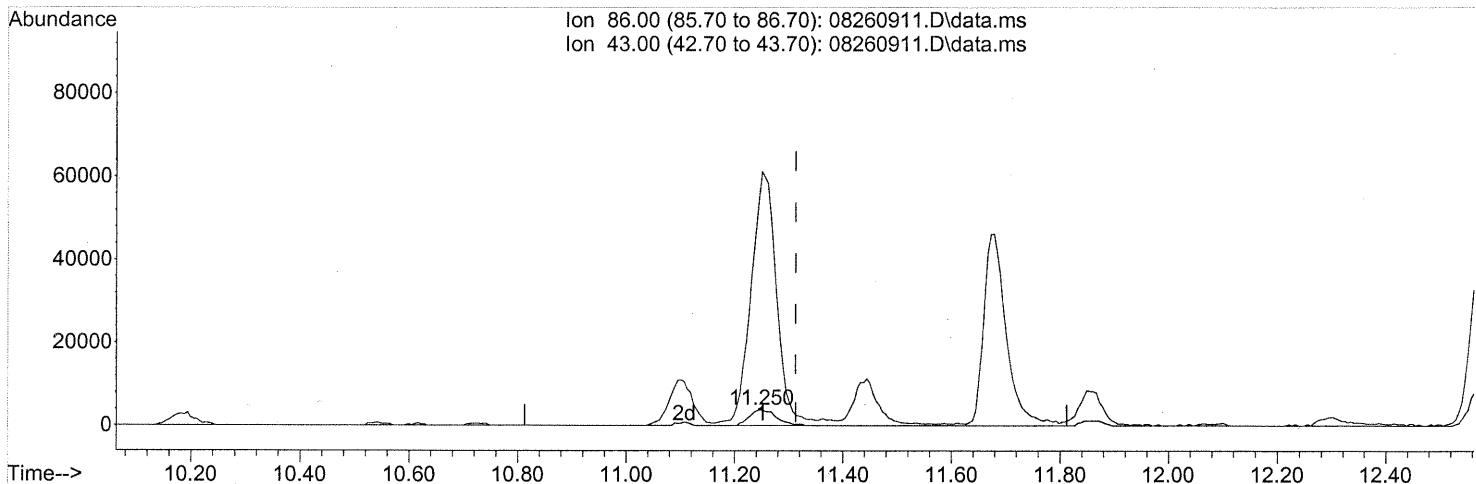
response 13324

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	19.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.250min (-0.063) 6.33ng

response 12618

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1563.40#
0.00	0.00	0.00
0.00	0.00	0.00

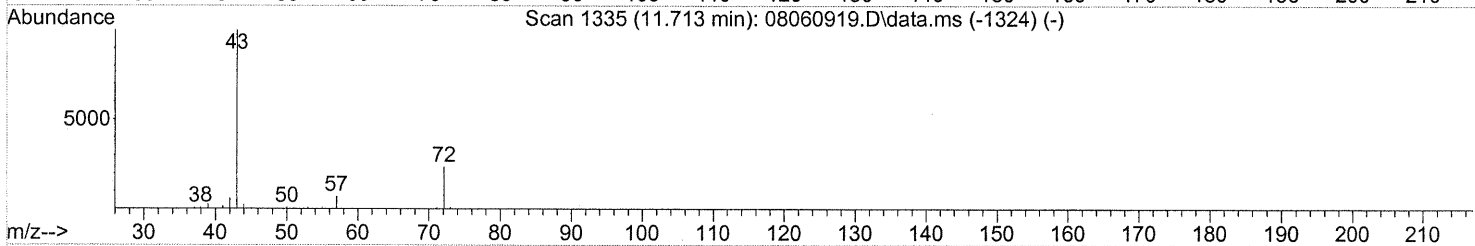
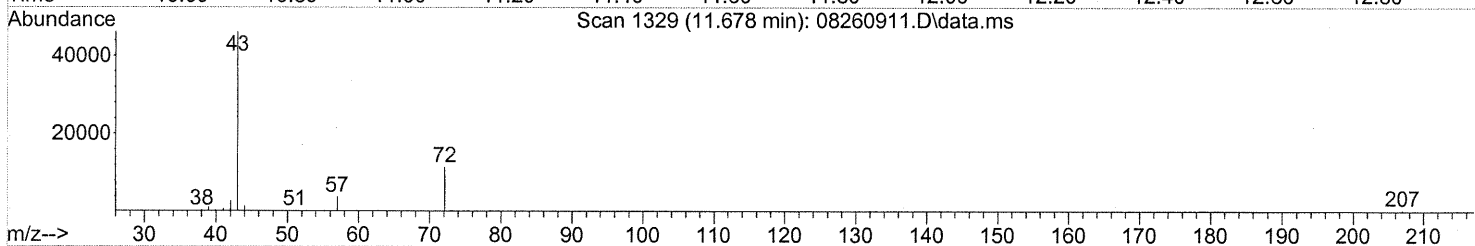
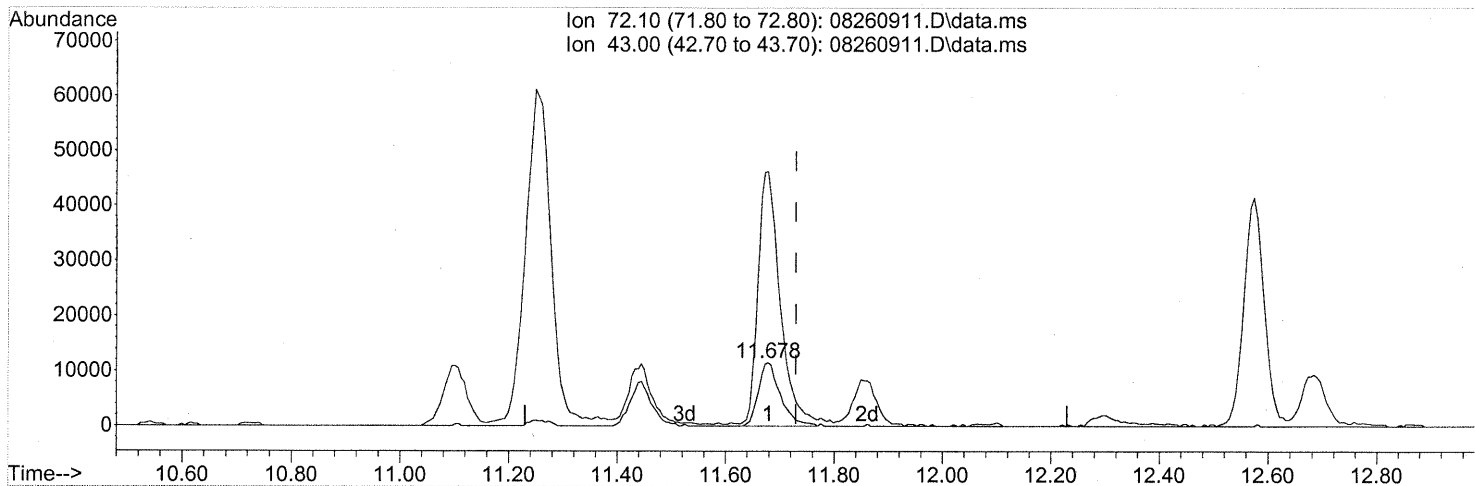
EP
11/9/2/09

— R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.678min (-0.052) 3.67ng

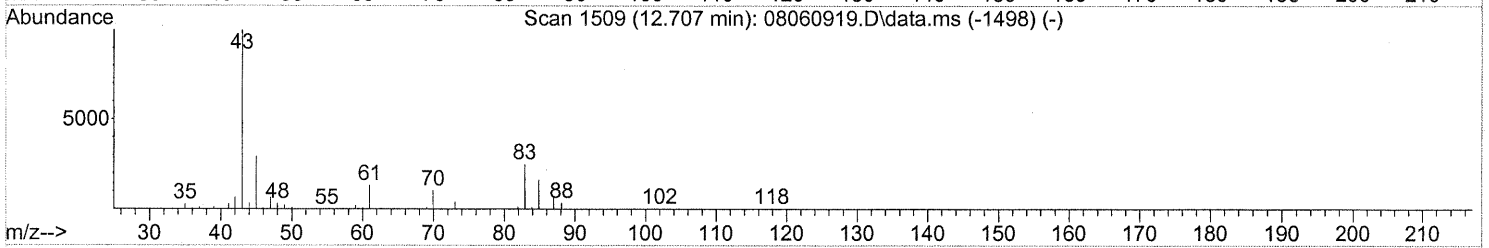
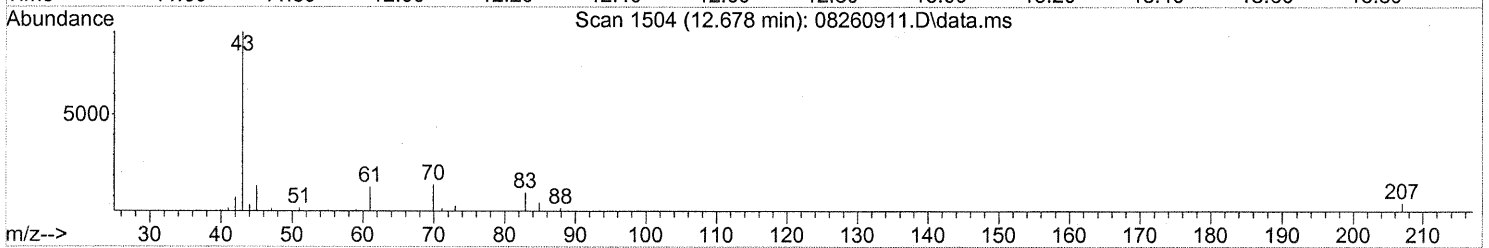
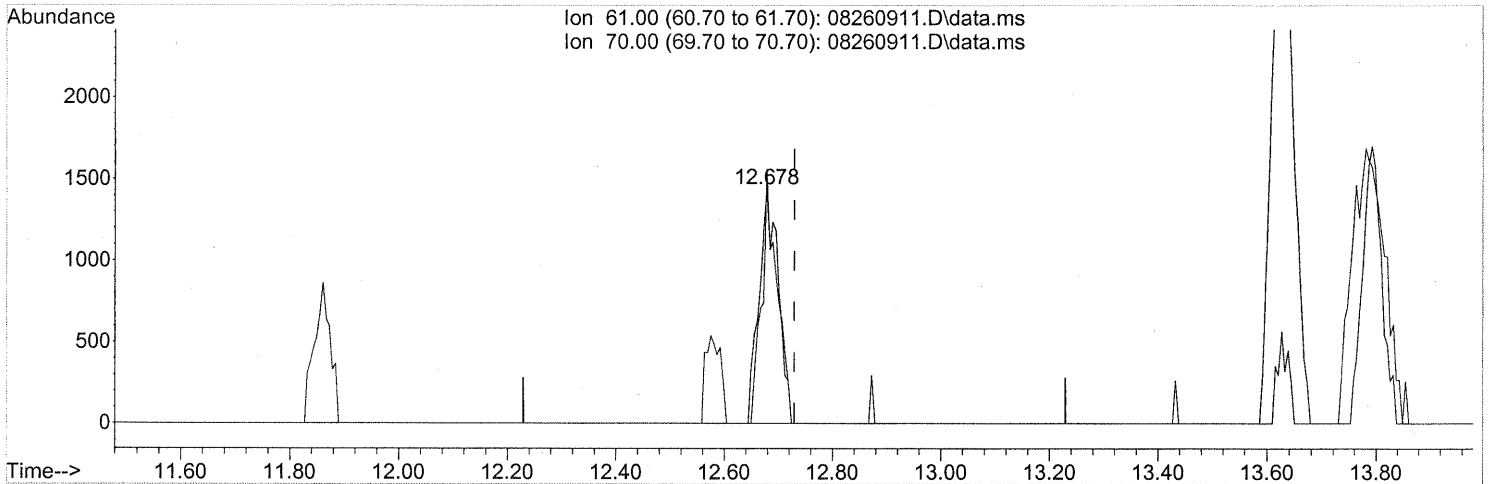
response 32481

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	403.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

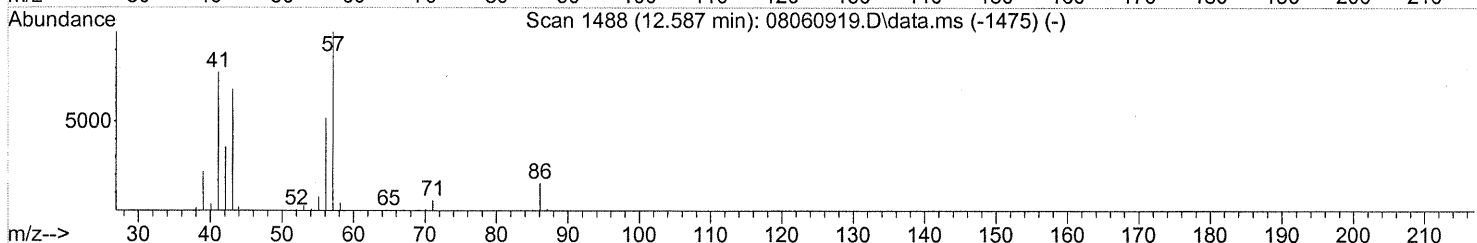
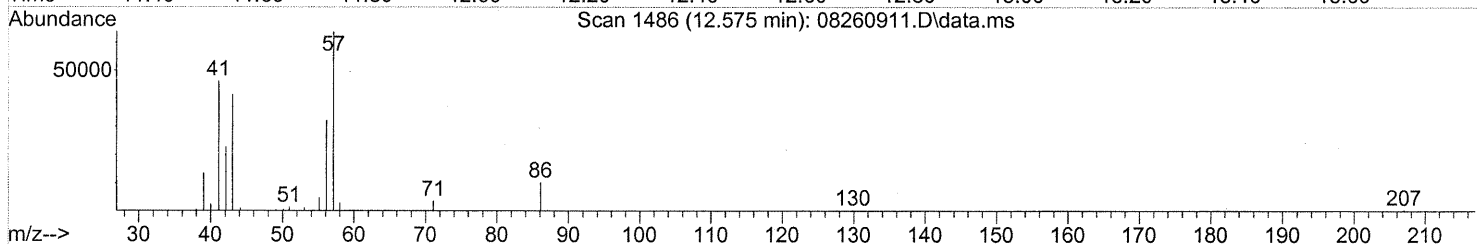
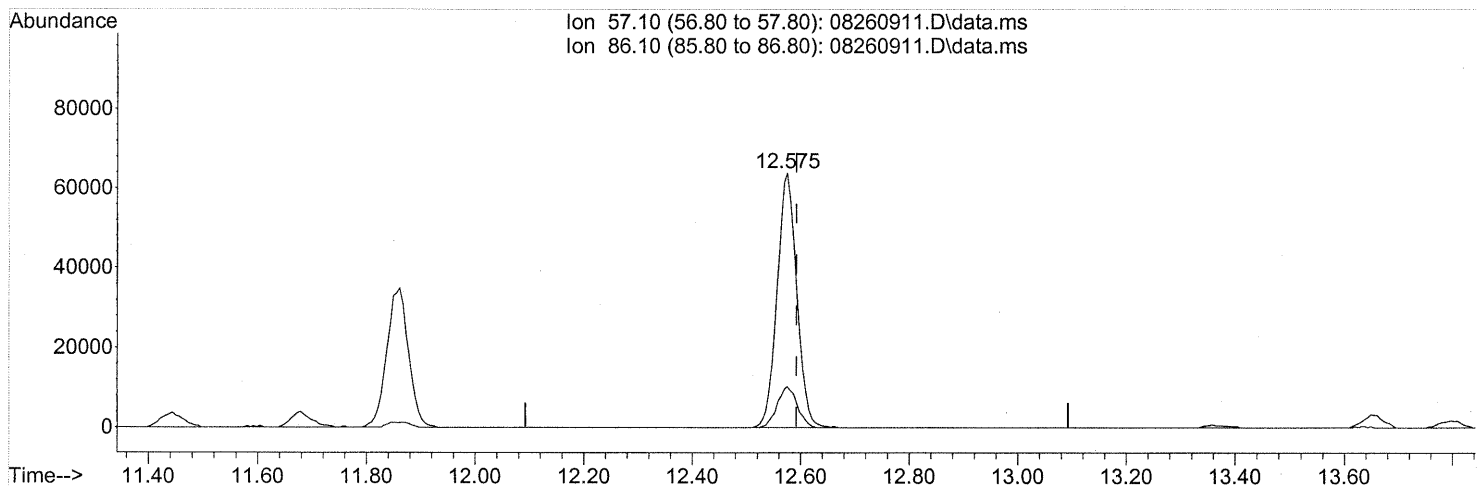
(30) Ethyl Acetate (T)
 12.678min (-0.052) 0.78ng
 response 3576

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	86.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

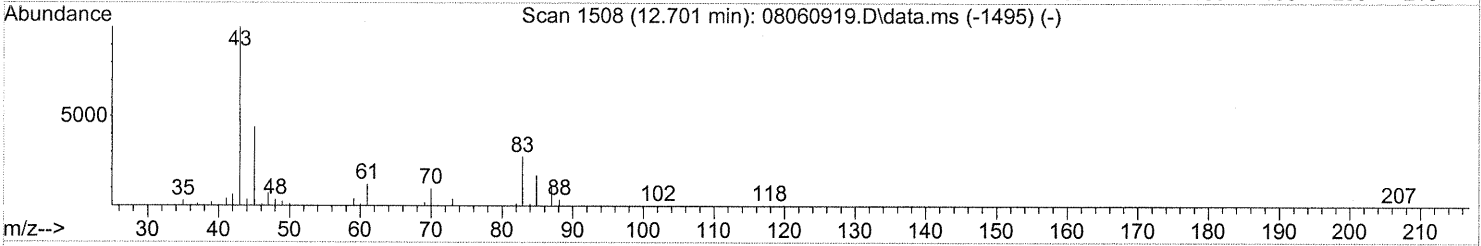
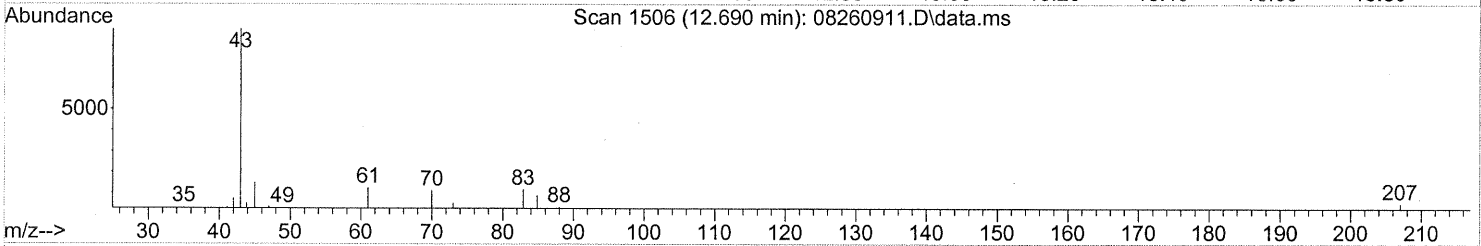
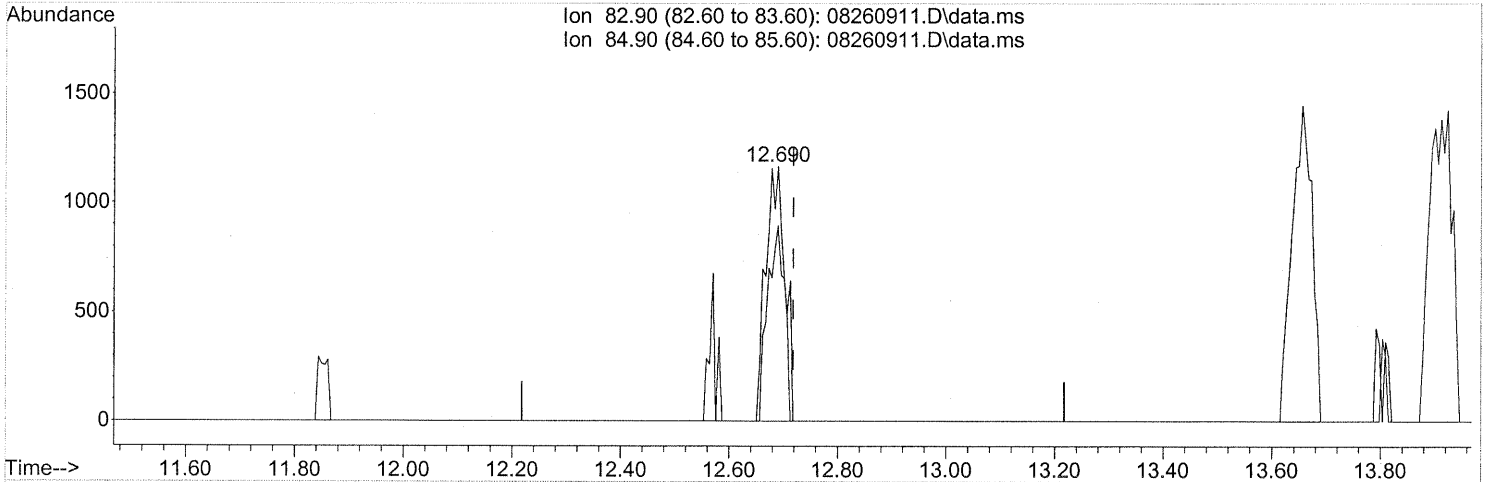
(31) n-Hexane (T)
 12.575min (-0.017) 6.82ng
 response 160850

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	16.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

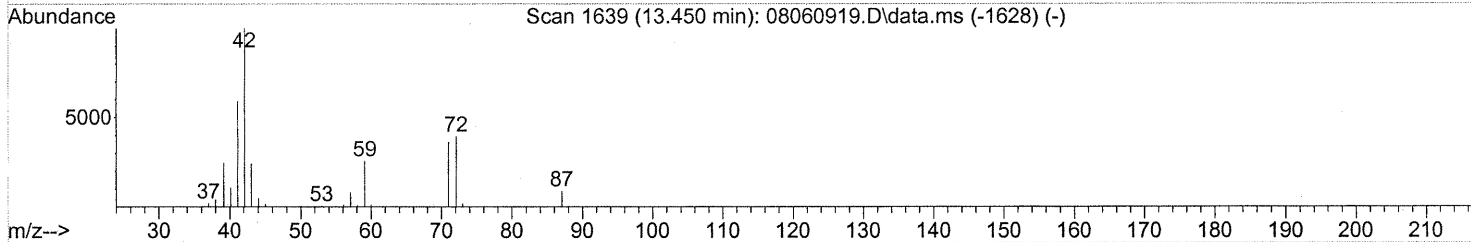
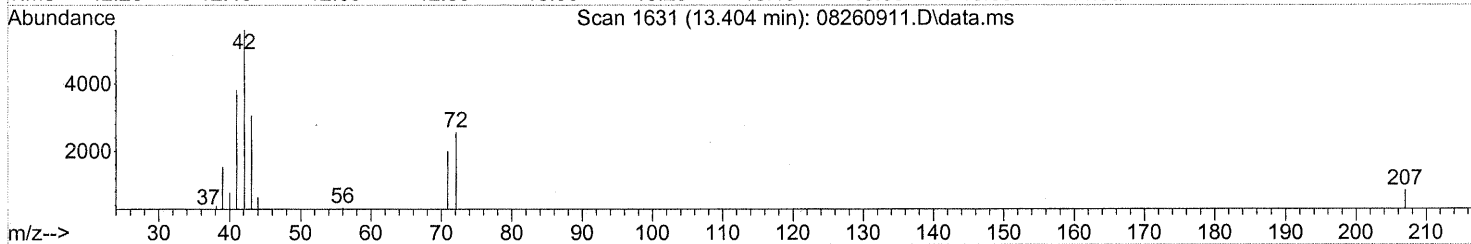
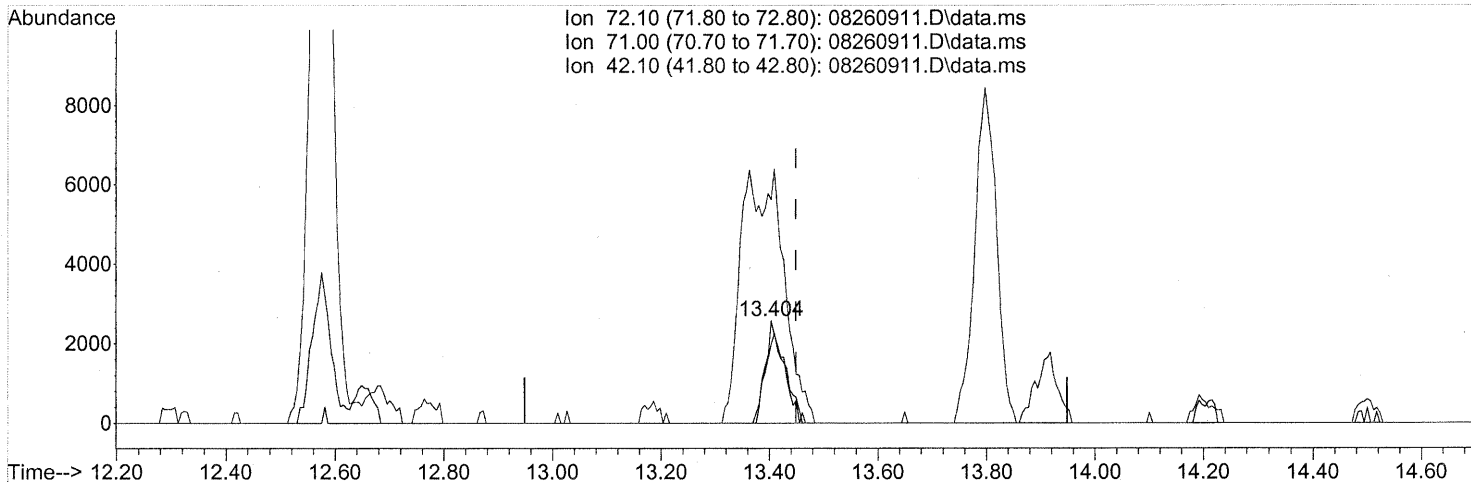
(32) Chloroform (T)
 12.690min (-0.029) 0.14ng
 response 2893

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	67.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.404min (-0.045) 0.65ng

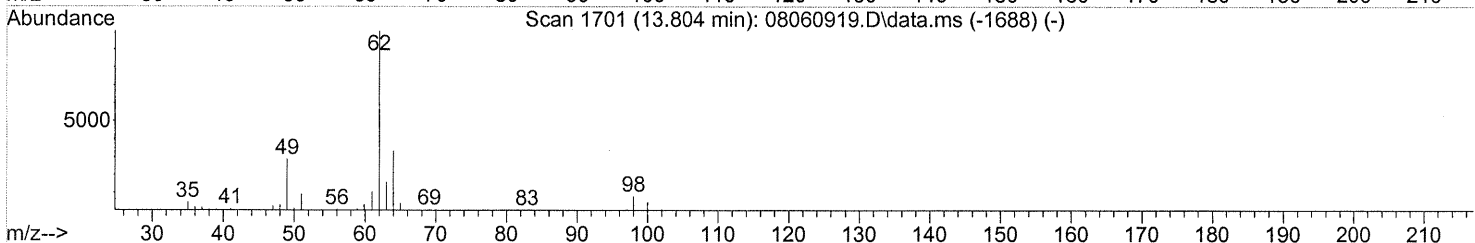
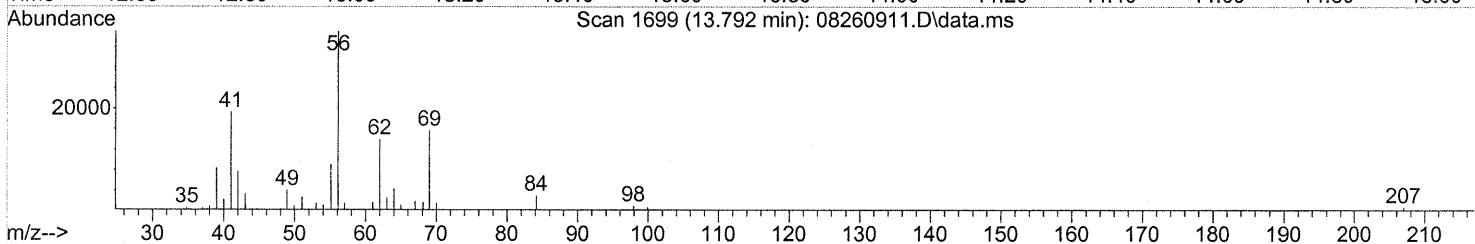
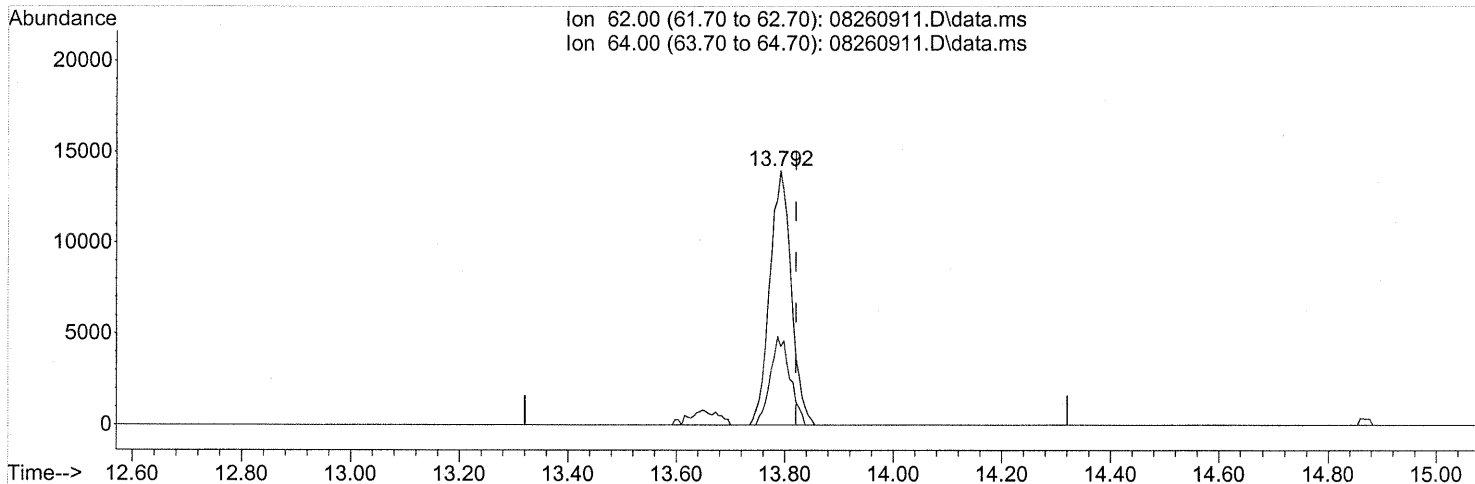
response 6108

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	99.66
42.10	253.40	560.92#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 2.02ng

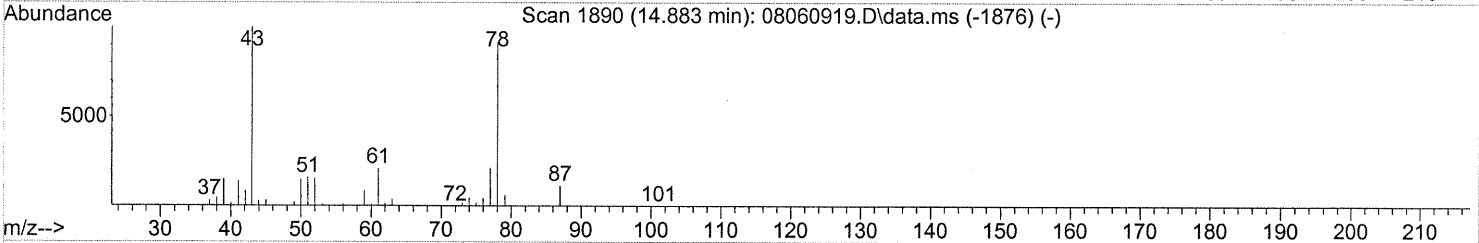
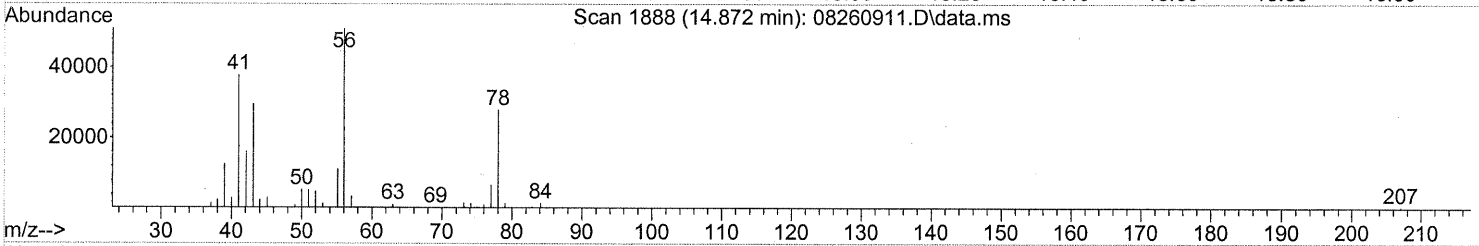
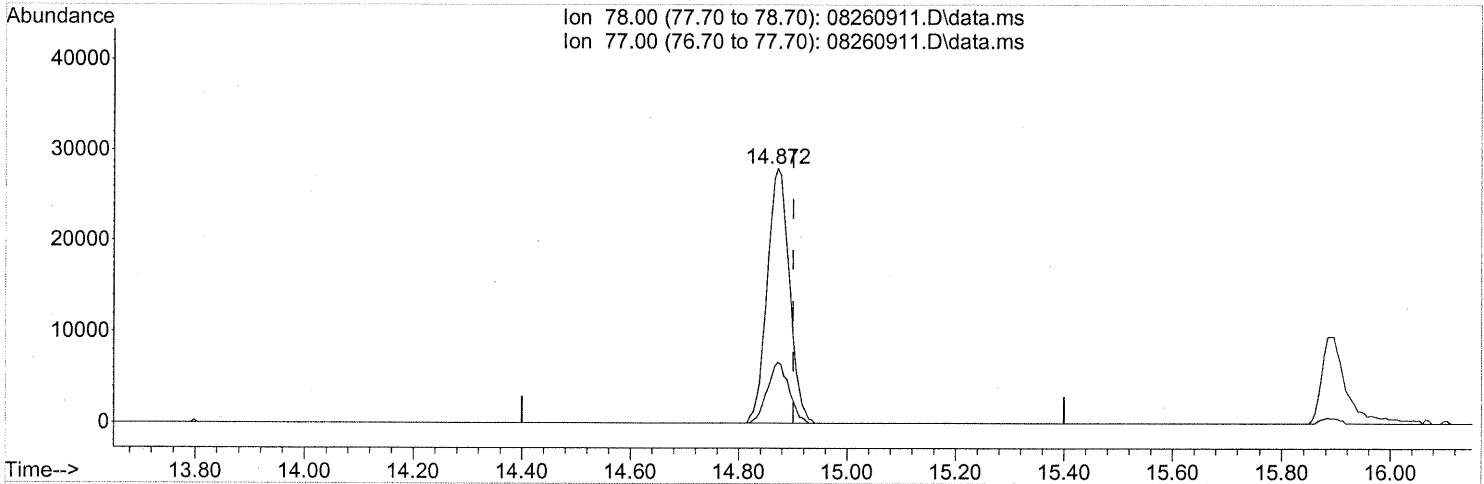
response 38254

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(41) Benzene (T)

14.872min (-0.029) 1.52ng

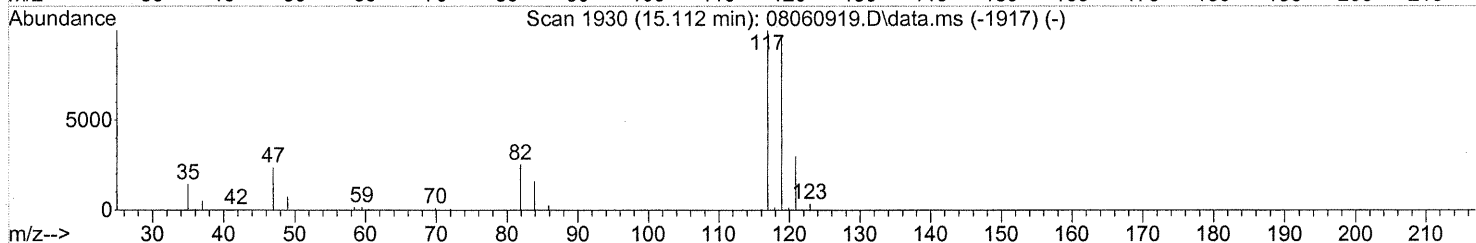
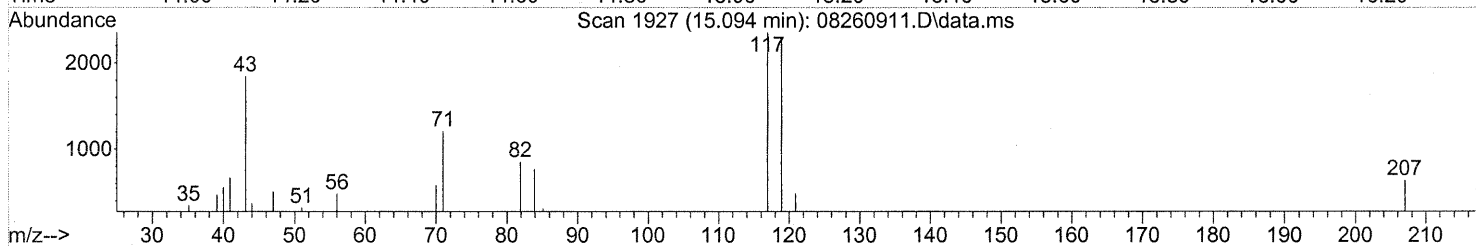
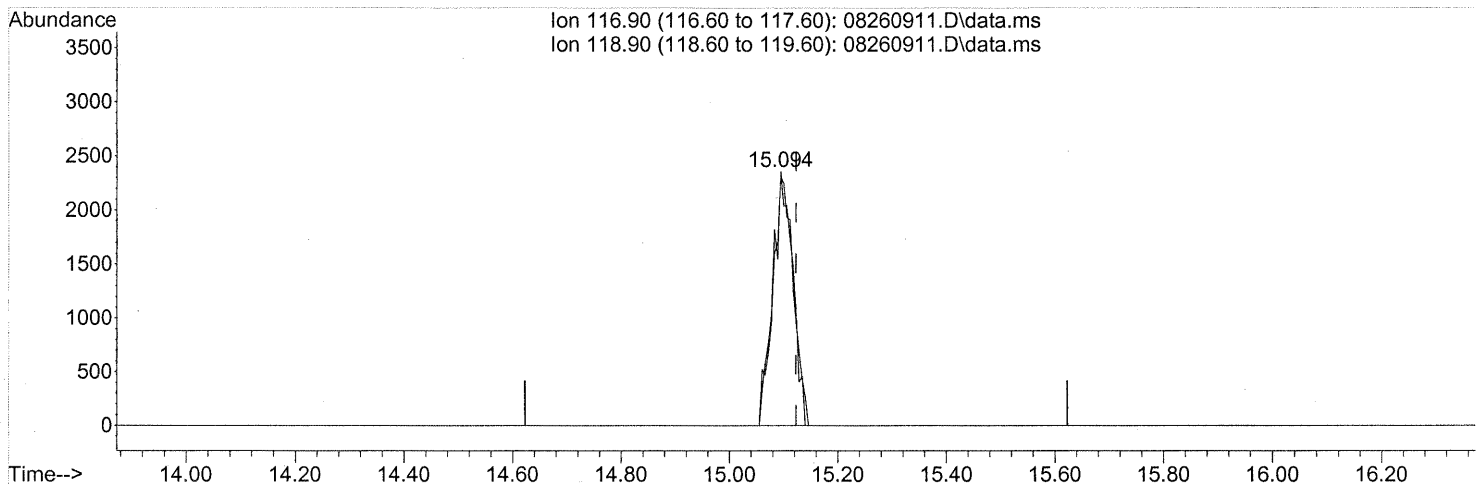
response 79660

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260911.D\data.ms

(42) Carbon Tetrachloride (T)

15.094min (-0.029) 0.36ng

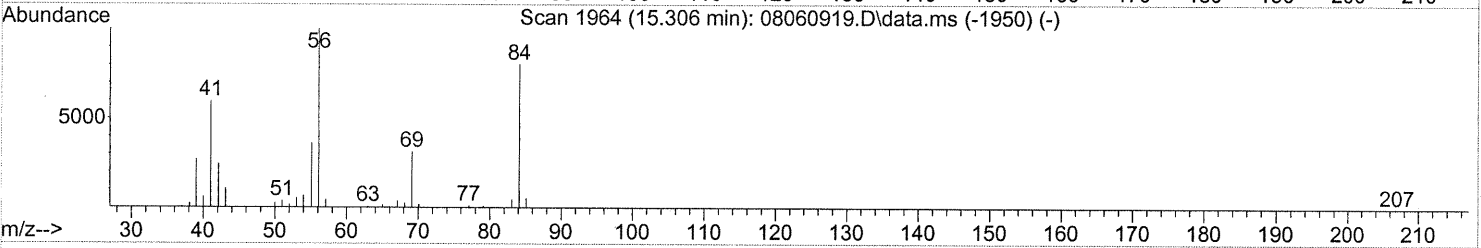
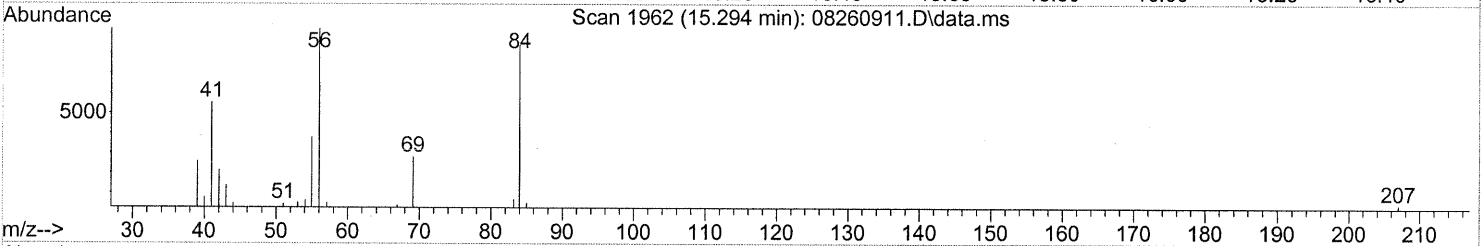
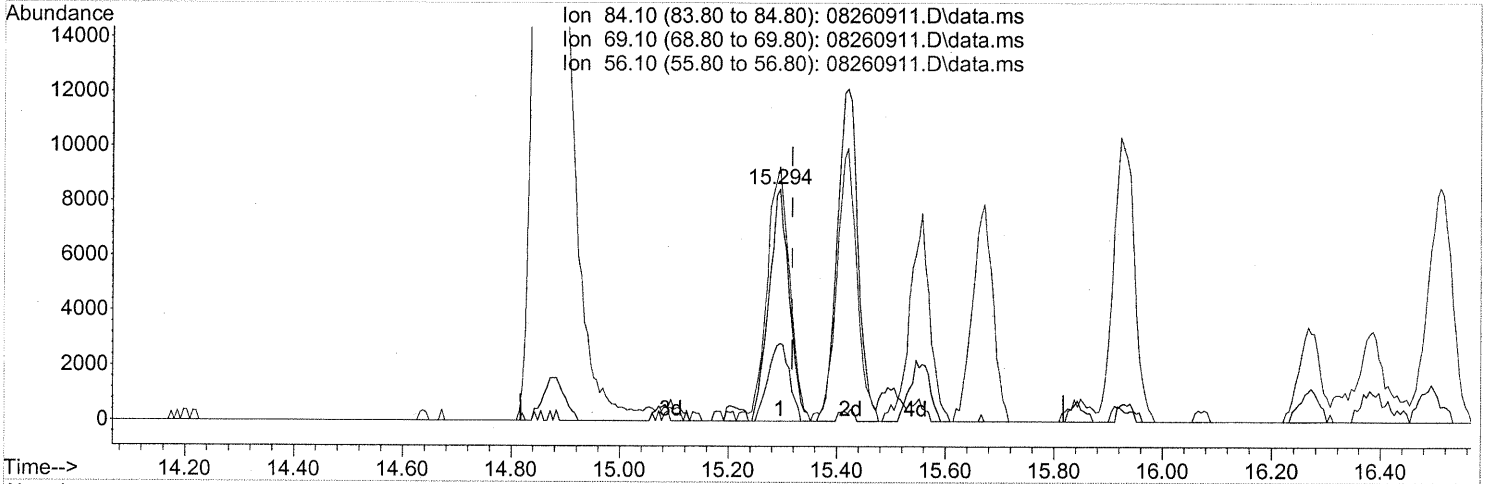
response 6047

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	101.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

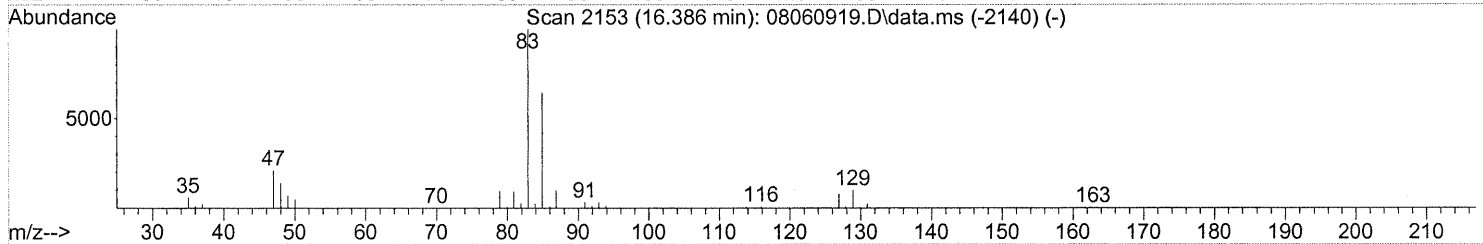
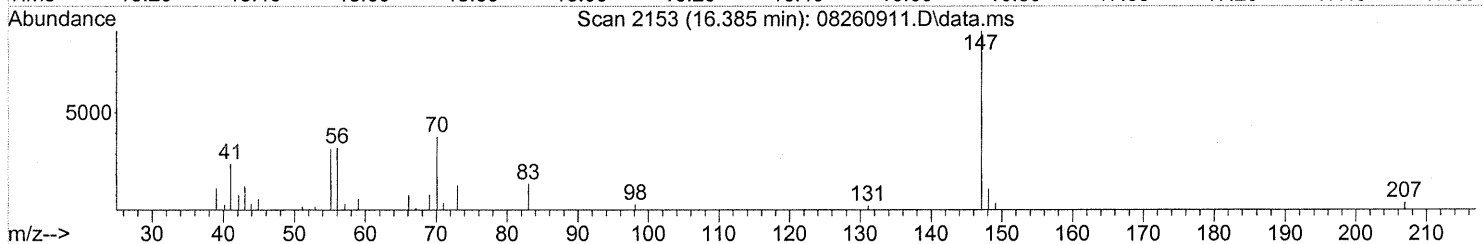
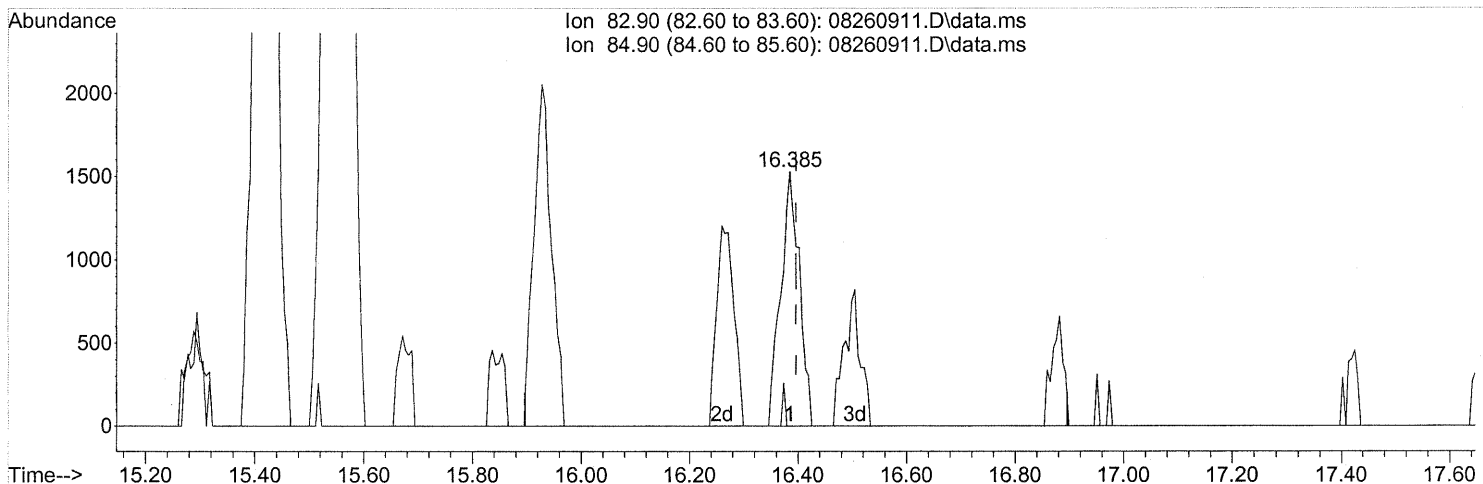
(43) Cyclohexane (T)
 15.294min (-0.023) 1.15ng
 response 22203

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	34.92
56.10	127.50	120.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.385min (-0.012) 0.21ng

response 3651

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	2.41#
0.00	0.00	0.00
0.00	0.00	0.00

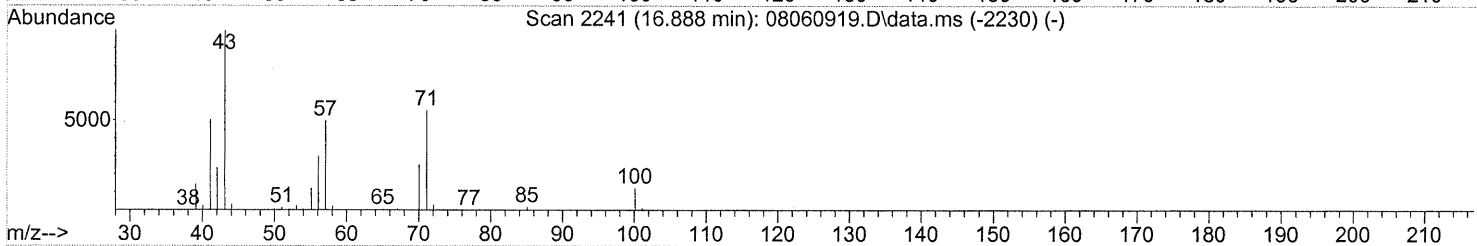
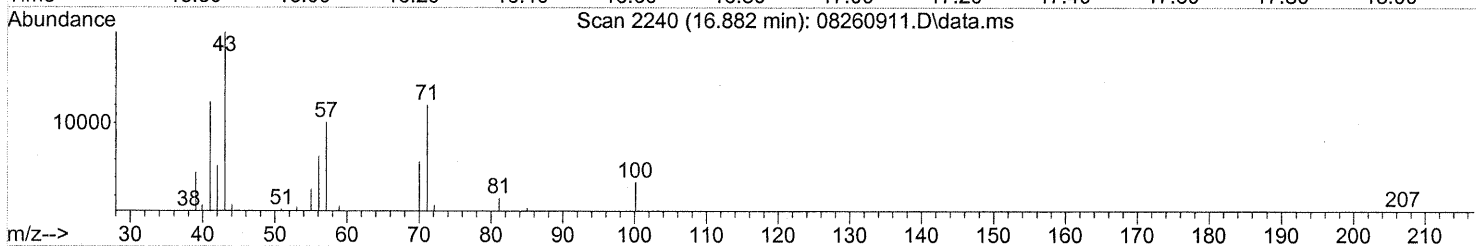
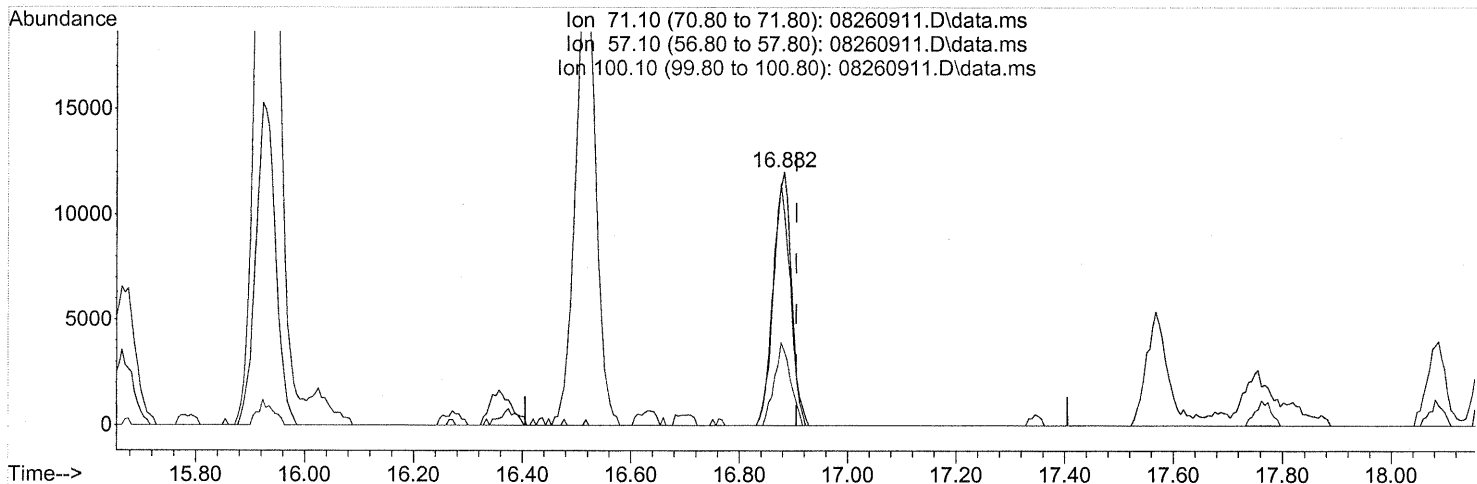
FP
UM 9/11/09

R 9/21/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

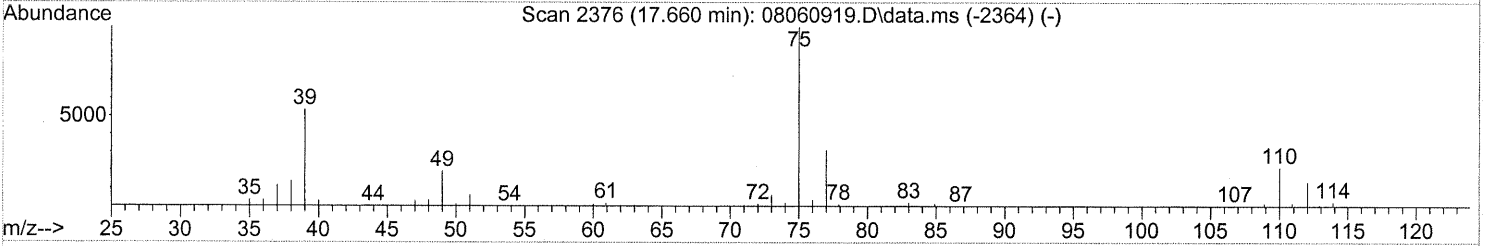
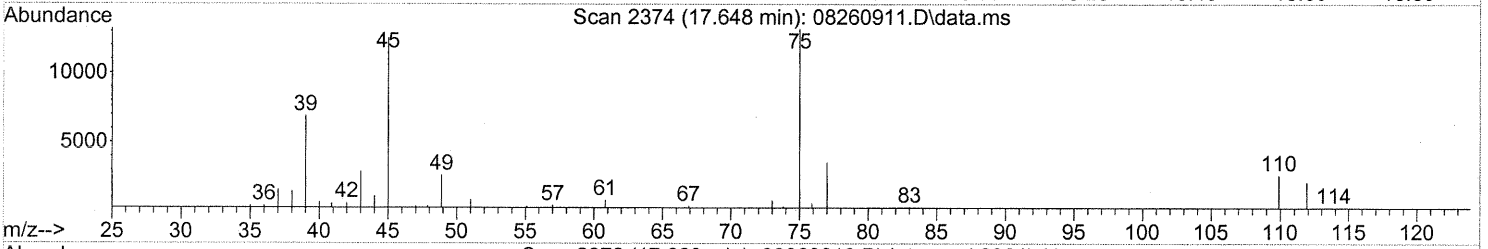
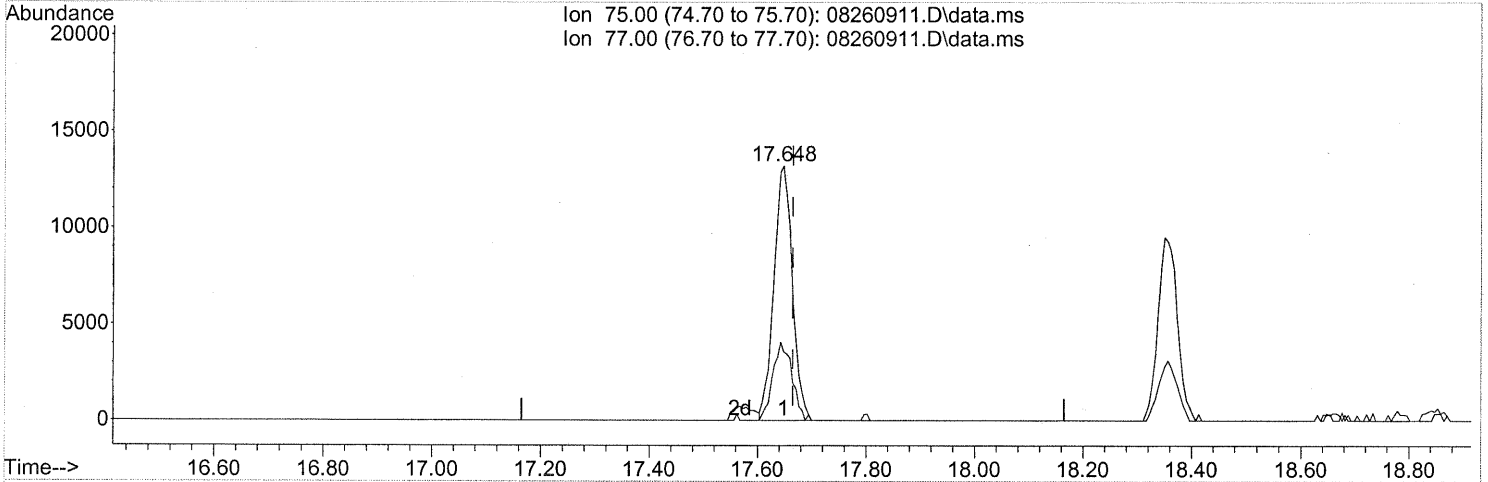
(51) n-Heptane (T)
 16.882min (-0.023) 1.99ng
 response 28011

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	90.71
100.10	26.40	29.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 1.43ng

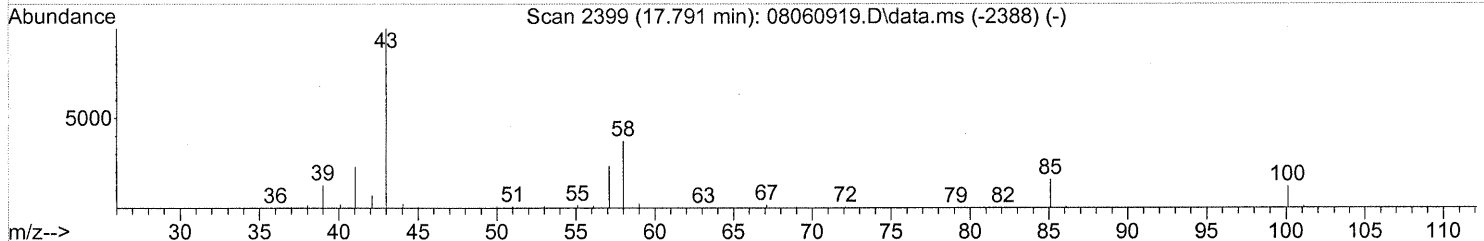
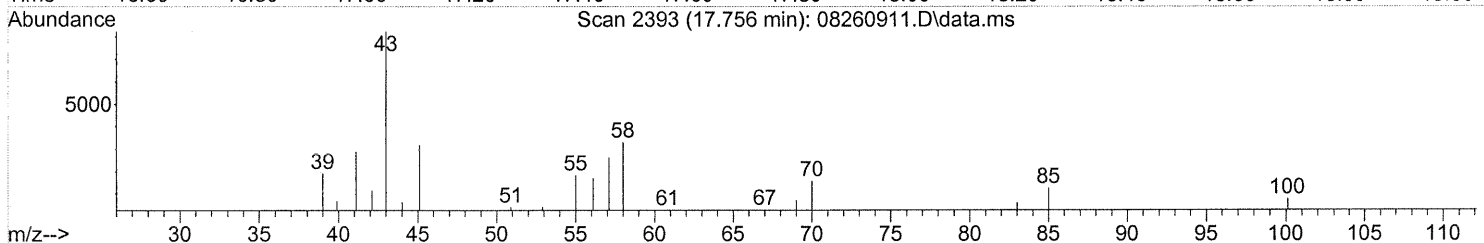
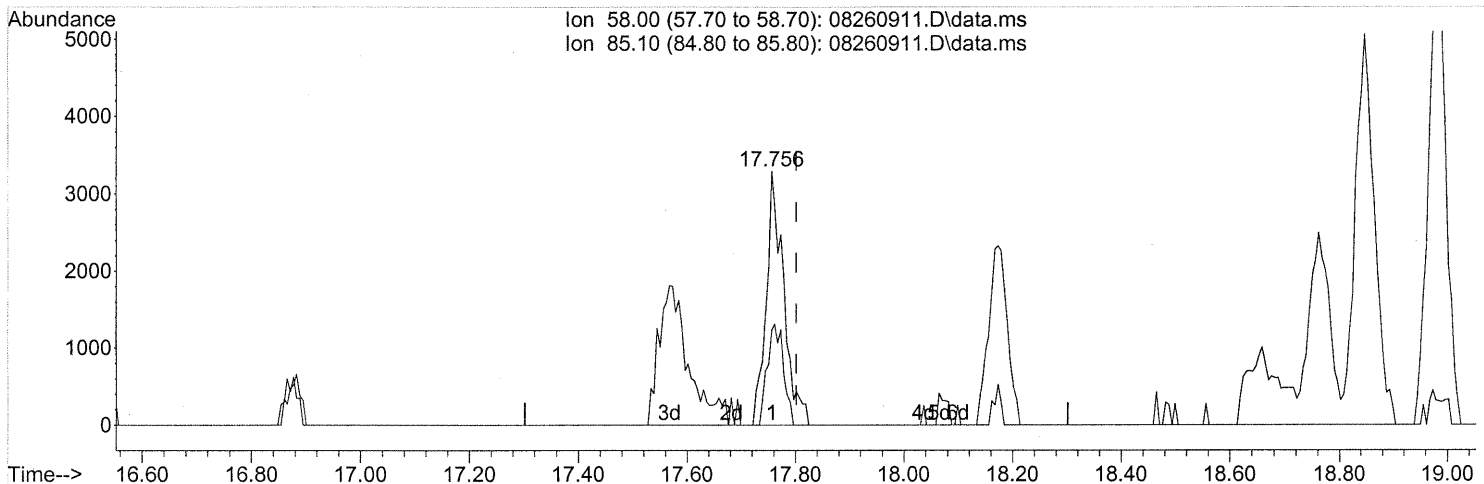
response 31278

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

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

17.756min (-0.046) 0.59ng

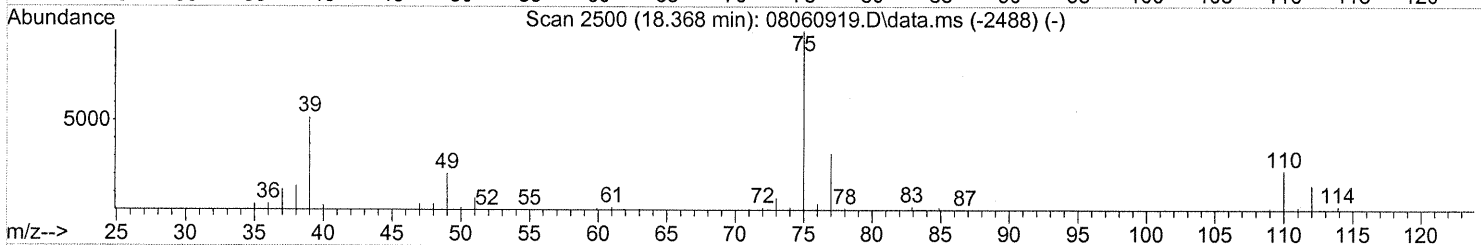
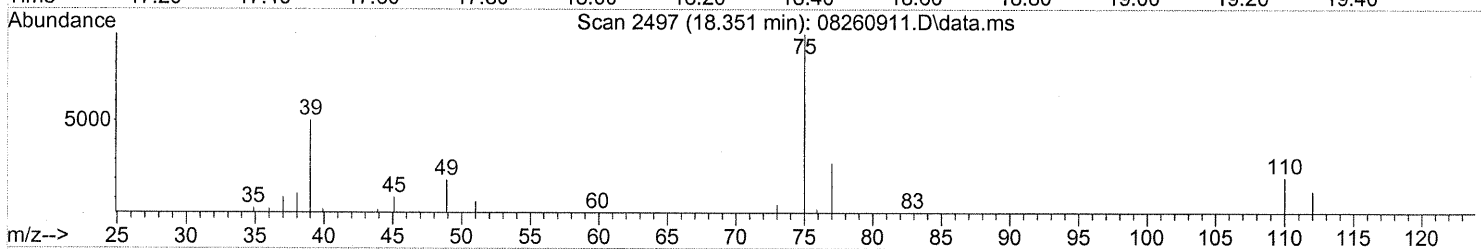
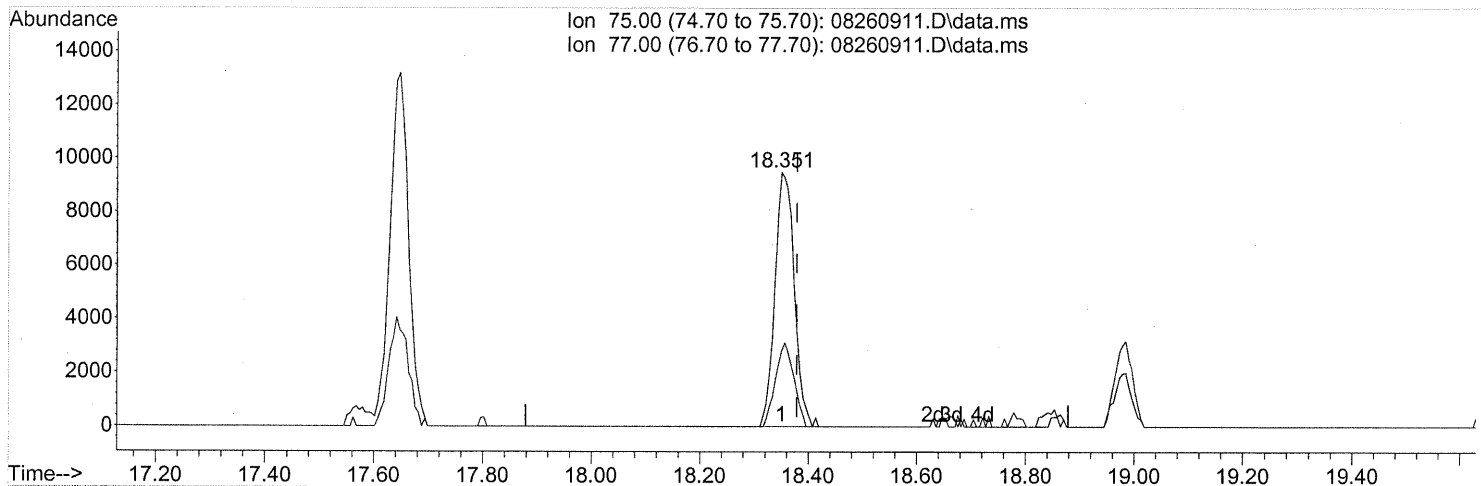
response 7418

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	36.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.351min (-0.029) 1.13ng

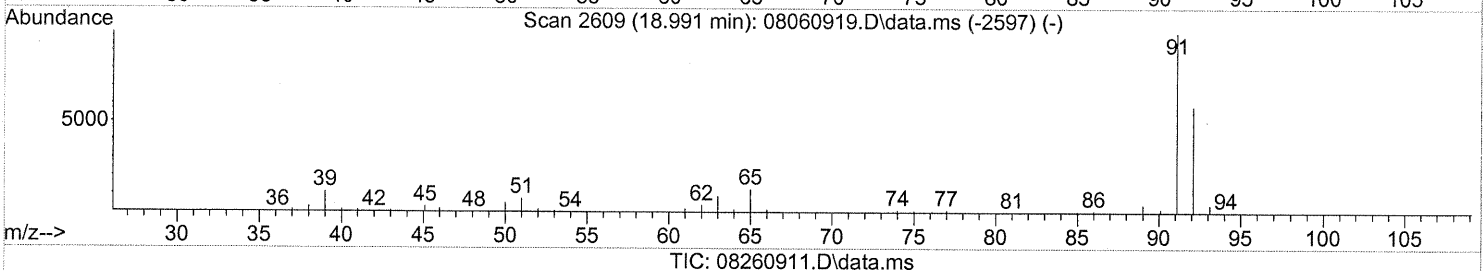
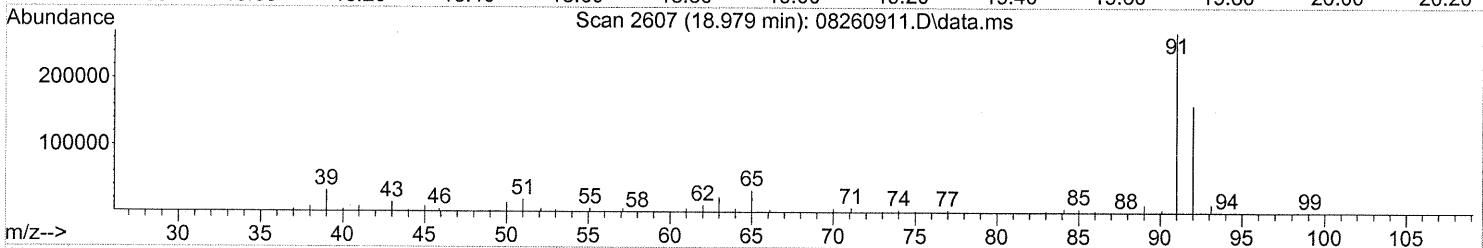
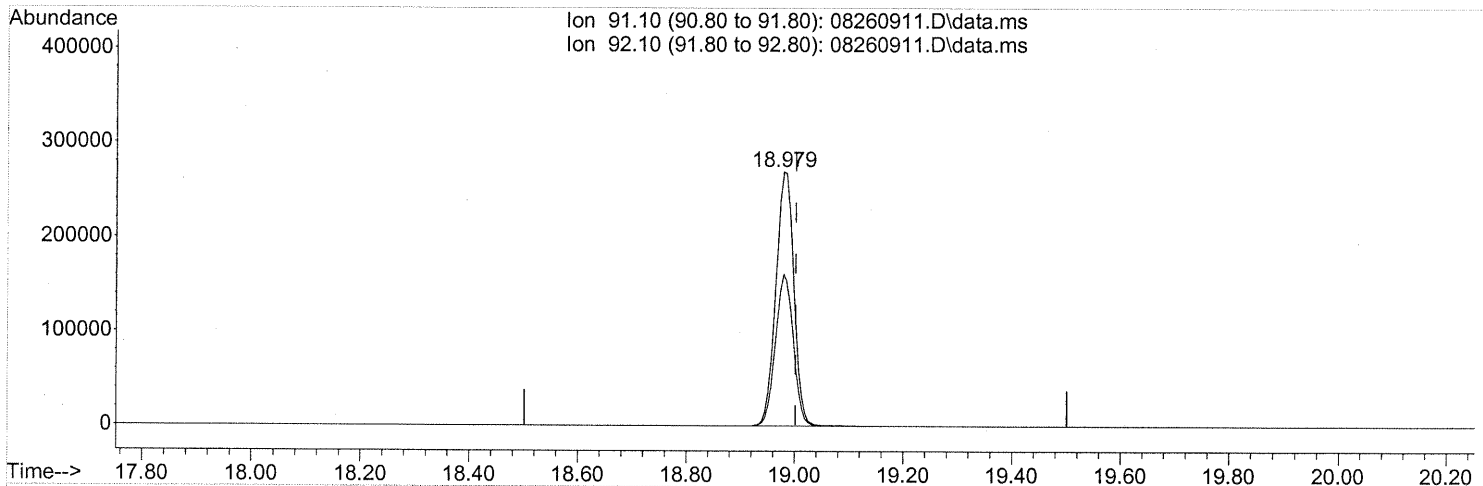
response 23572

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	31.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



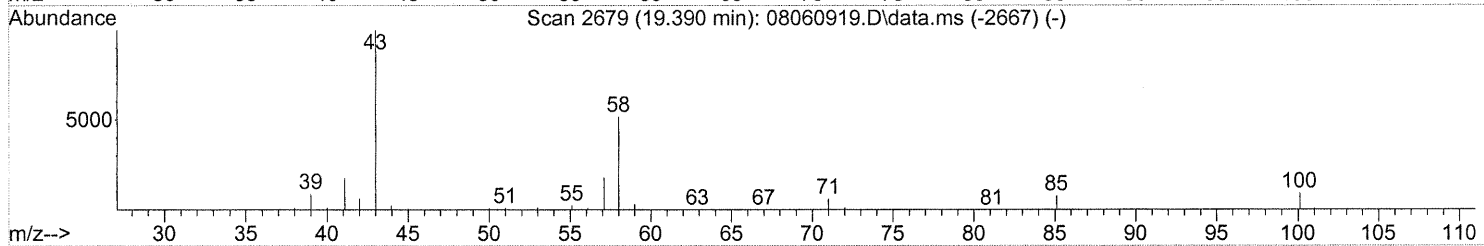
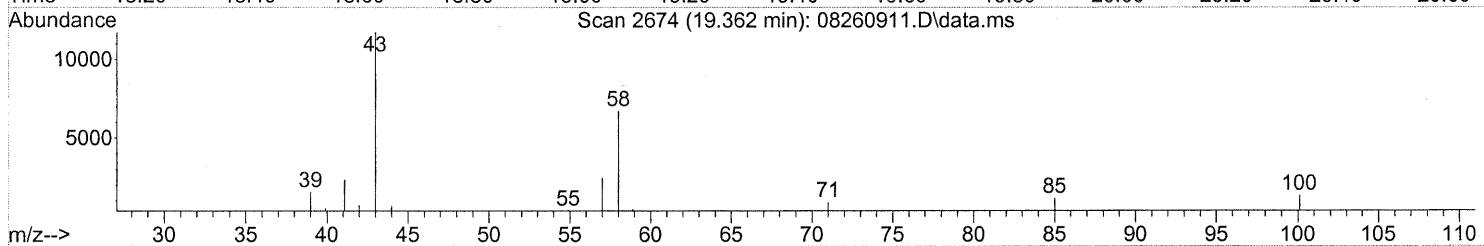
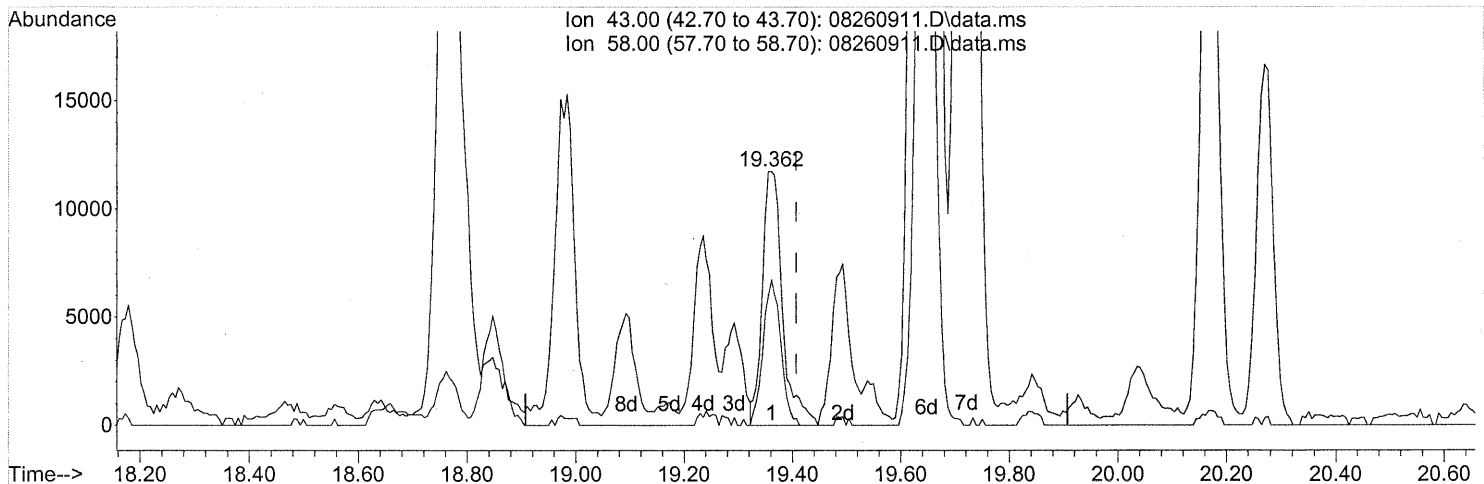
(58) Toluene (T)
 18.979min (-0.023) 12.55ng
 response 625678

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260911.D
Acq On : 26 Aug 2009 17:25
Operator : WA/CC
Sample : P0902876-007 (1000mL)
Misc : Environmental Health 102471
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260911.D\data.ms

(59) 2-Hexanone (T)

19.362min (-0.046) 0.92ng

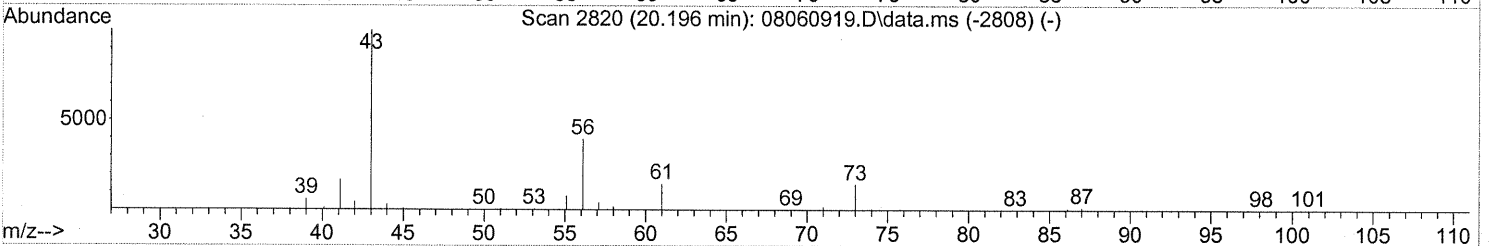
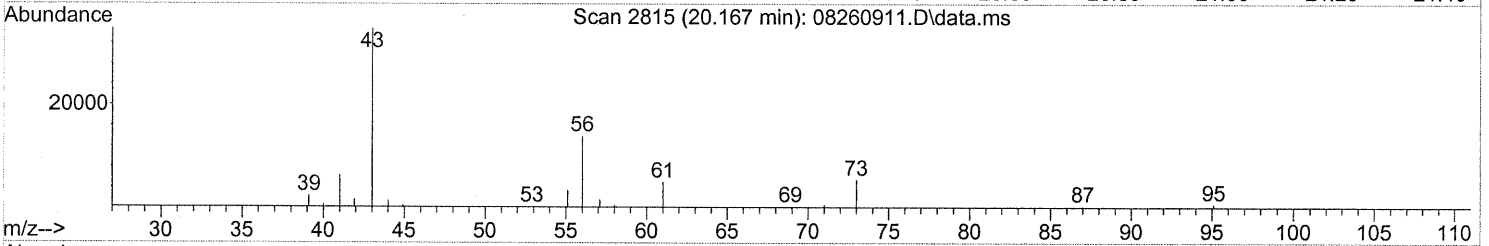
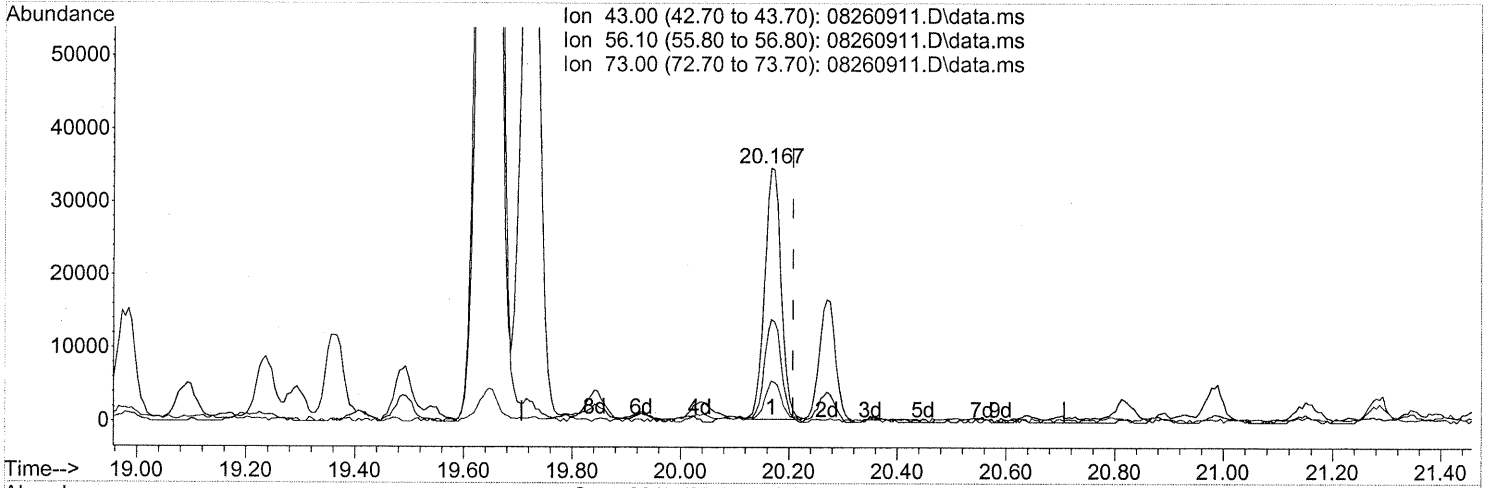
response 30422

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	50.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



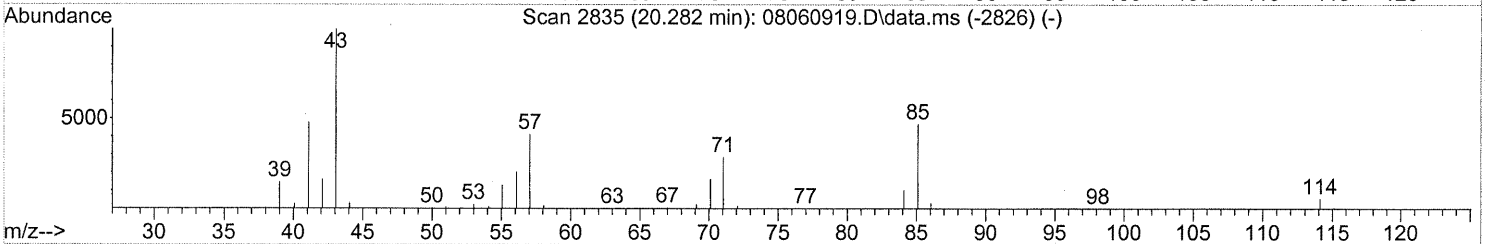
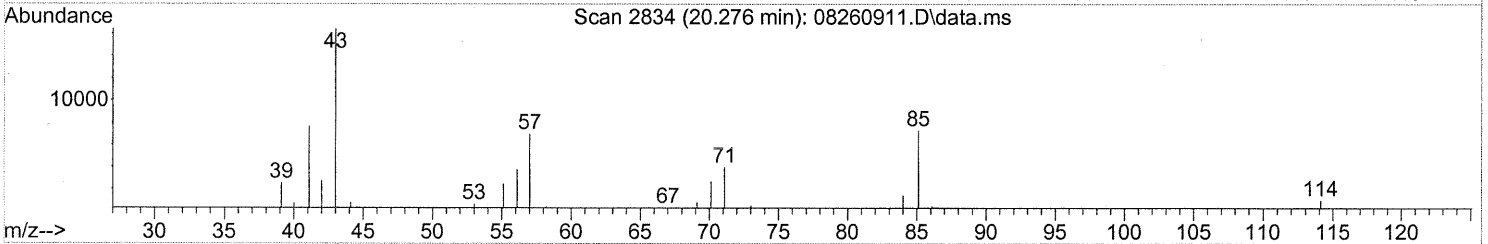
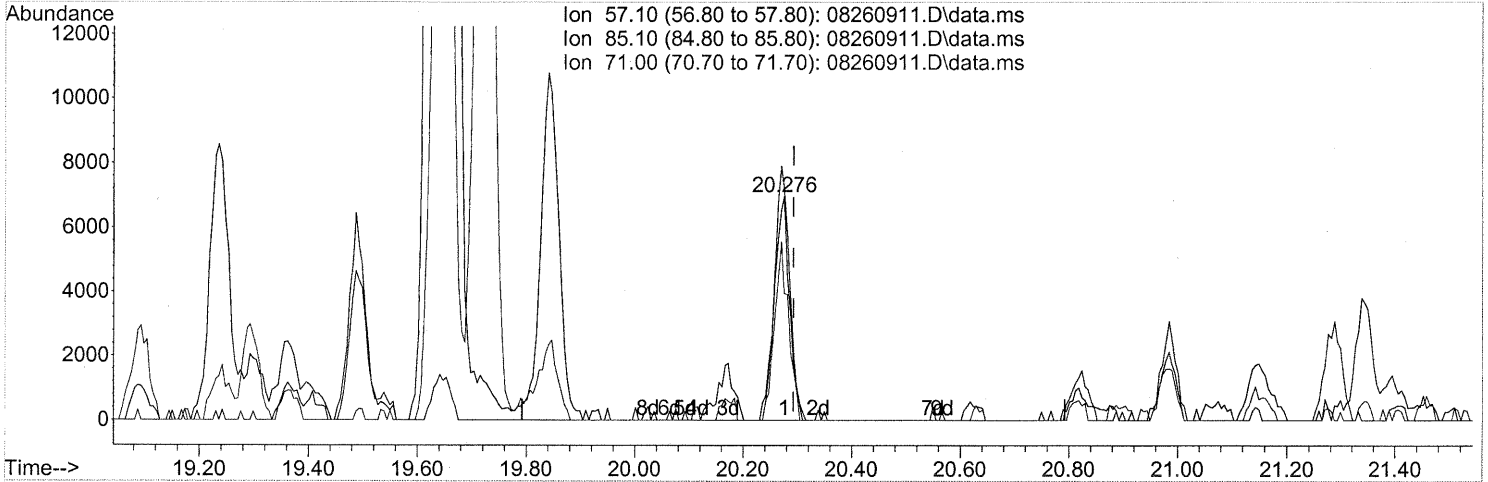
(62) n-Butyl Acetate (T)
 20.167min (-0.040) 1.86ng
 response 72515

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	42.52
73.00	14.80	17.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(63) n-Octane (T)

20.276min (-0.017) 1.14ng

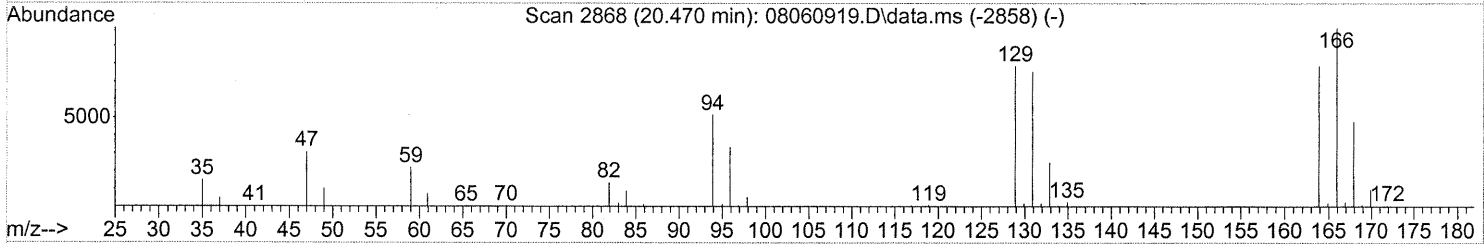
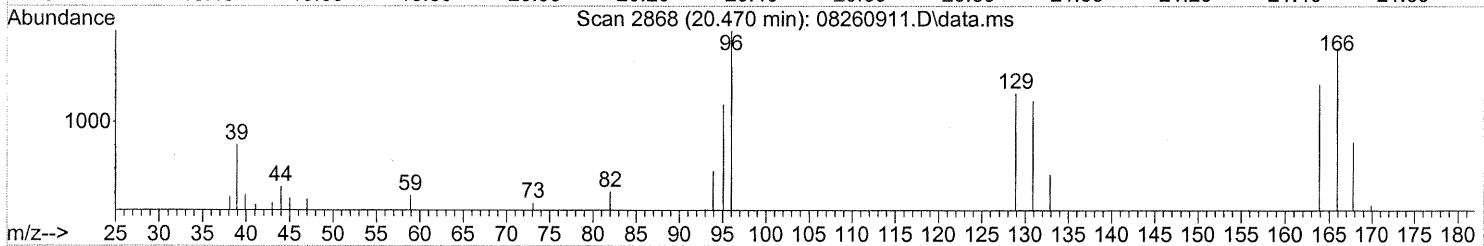
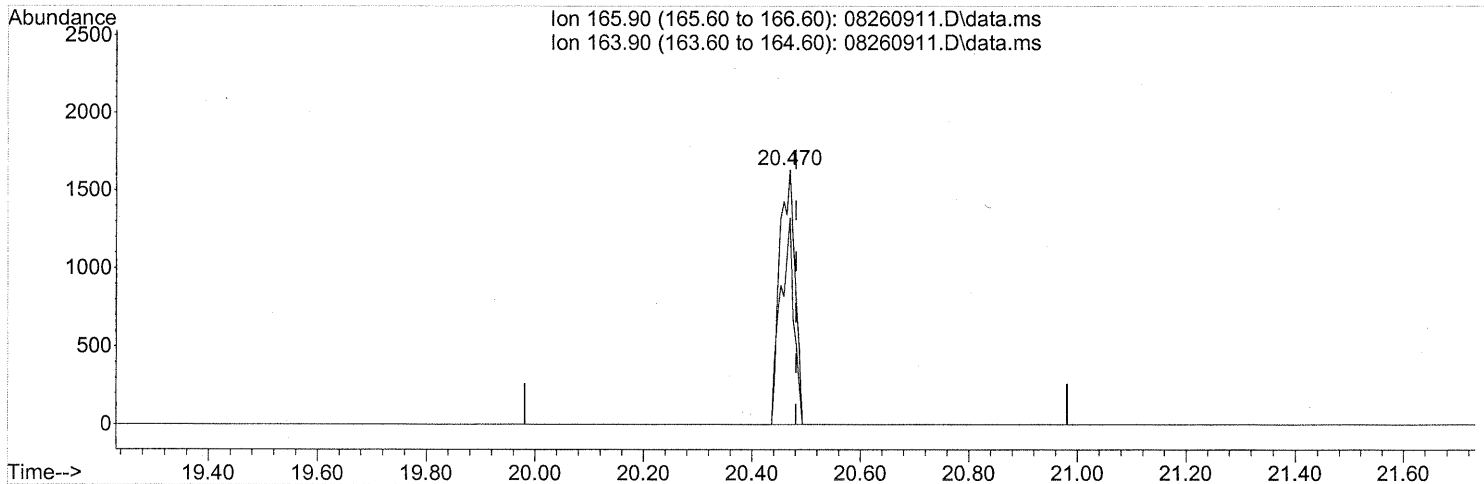
response 13700

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	111.39
71.00	68.10	72.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(64) Tetrachloroethene (T)

20.470min (-0.012) 0.28ng

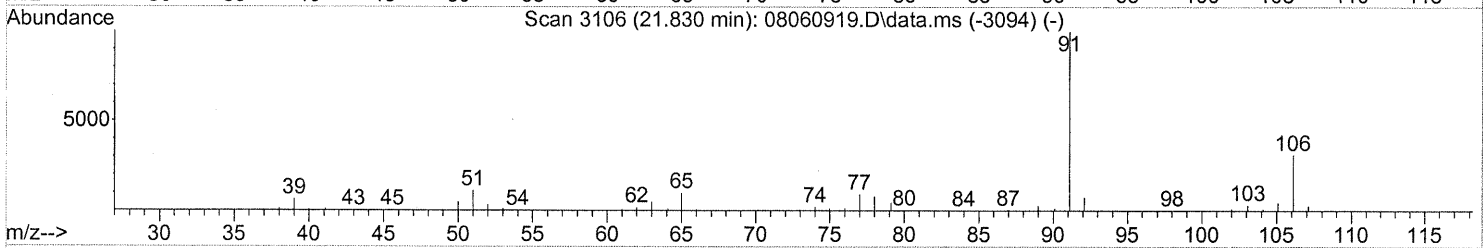
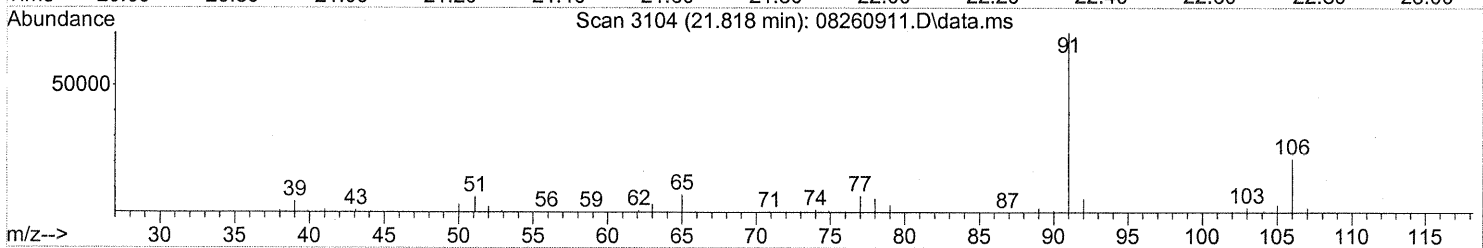
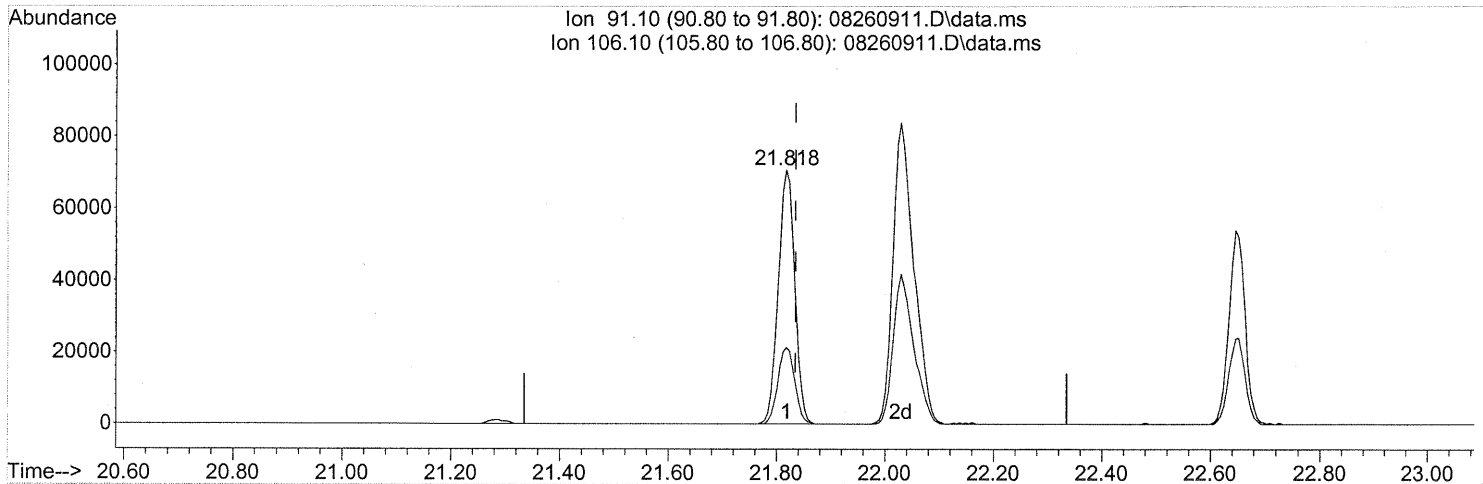
response 3210

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	71.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

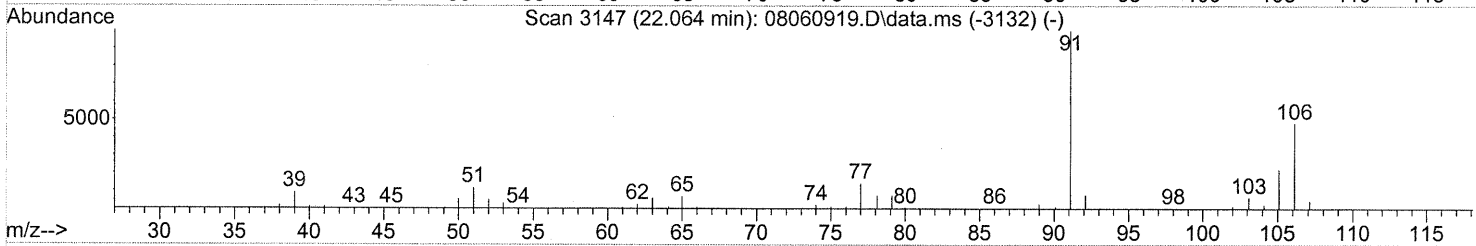
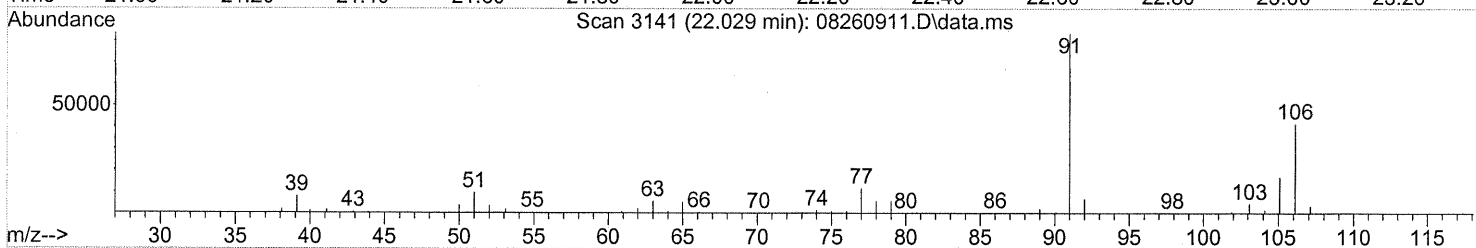
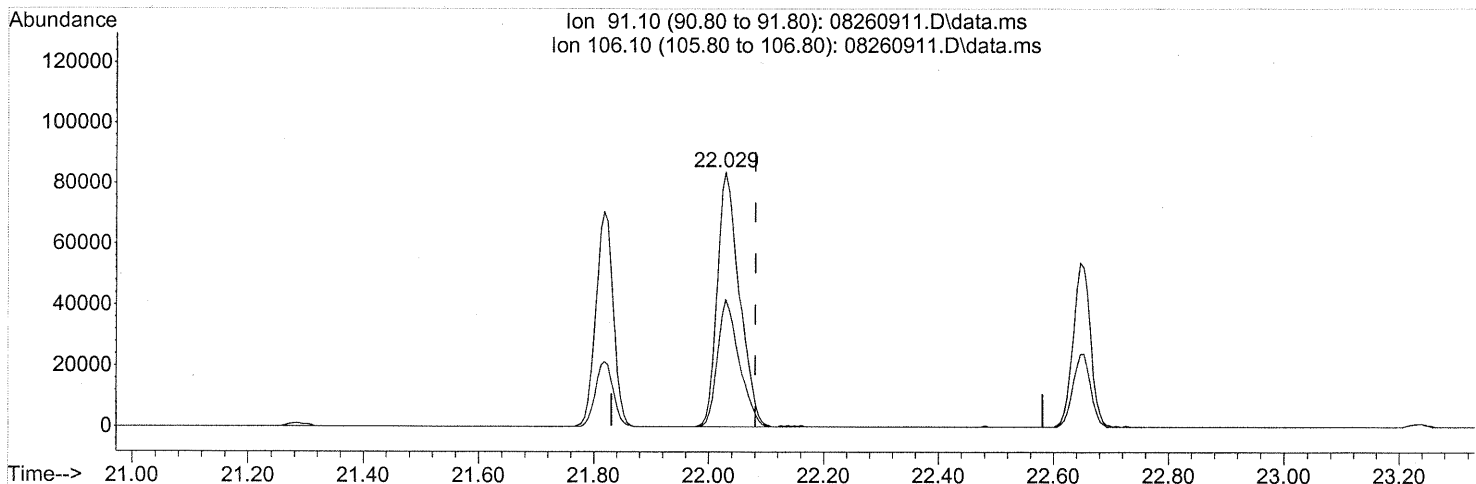
(66) Ethylbenzene (T)
 21.818min (-0.017) 2.61ng
 response 148524

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

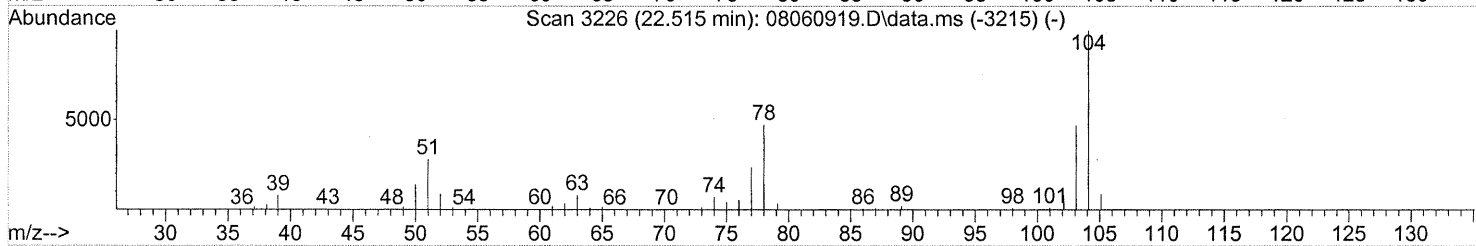
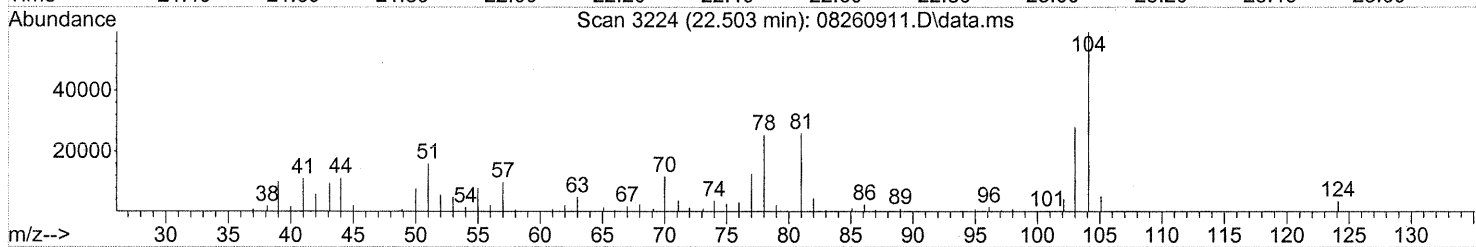
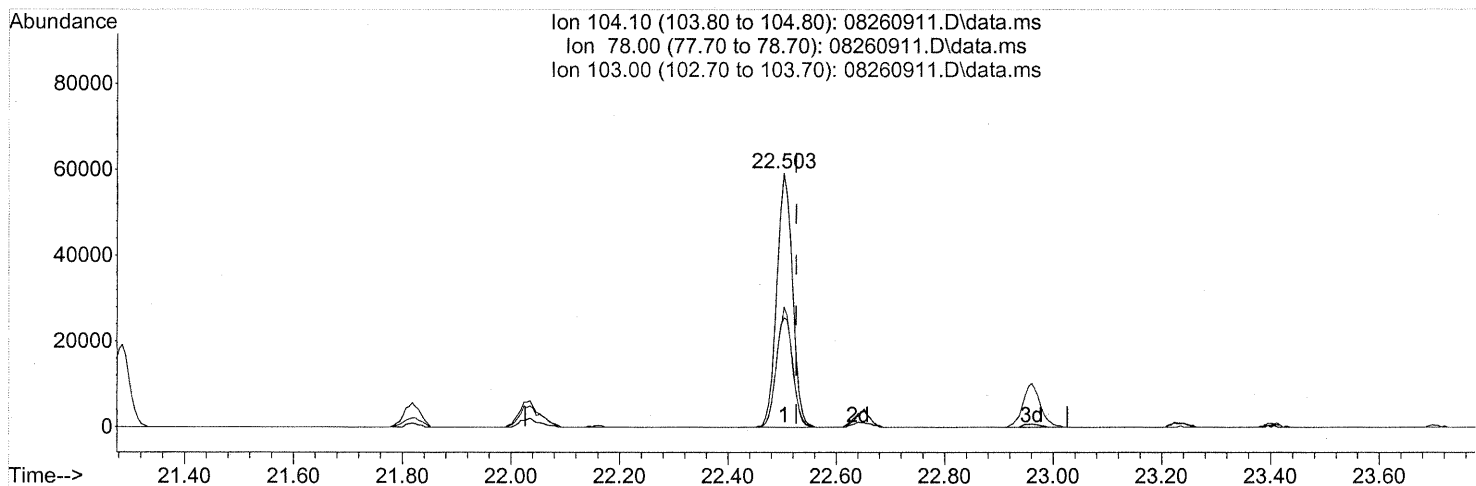
(67) m- & p-Xylenes (T)
 22.029min (-0.051) 4.84ng
 response 223336

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(69) Styrene (T)

22.503min (-0.023) 3.58ng

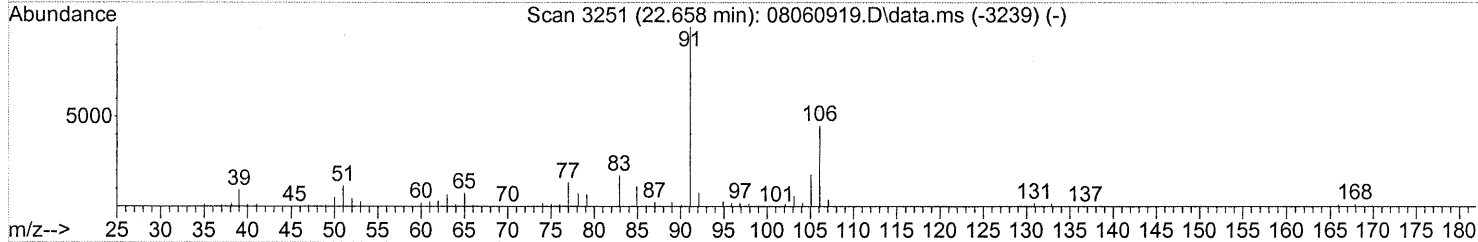
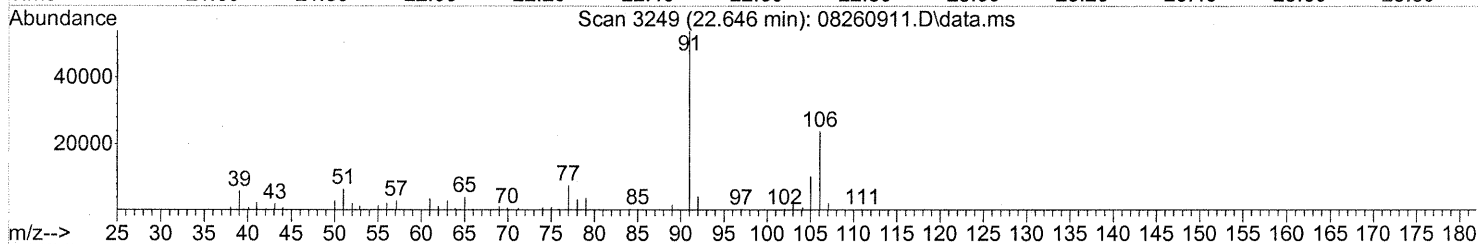
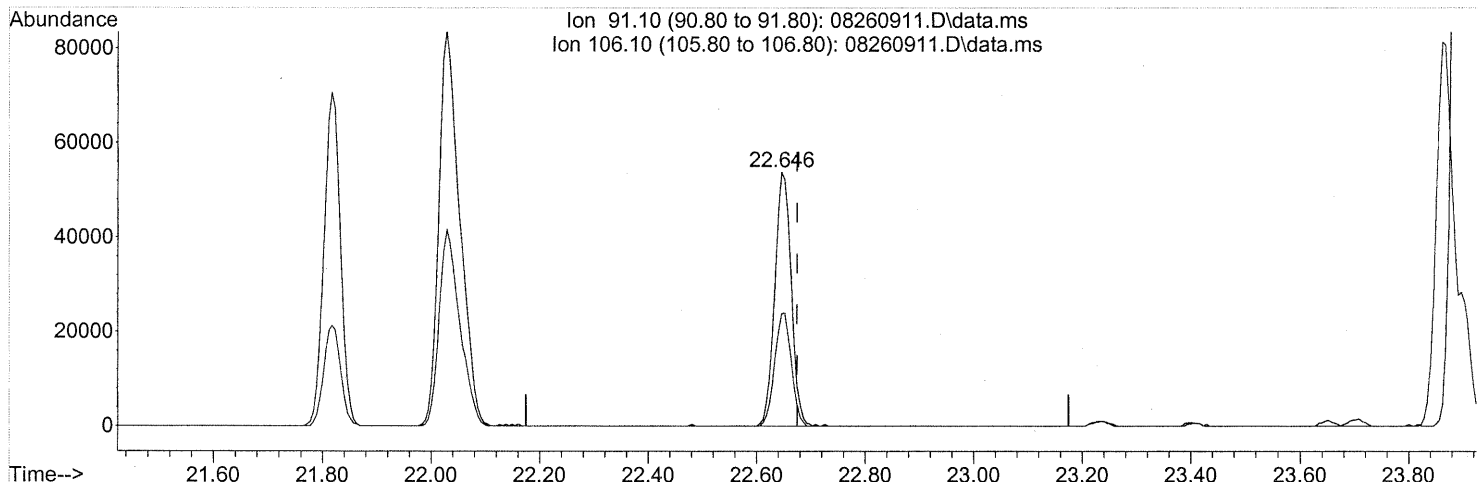
response 119187

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.80
103.00	46.20	47.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

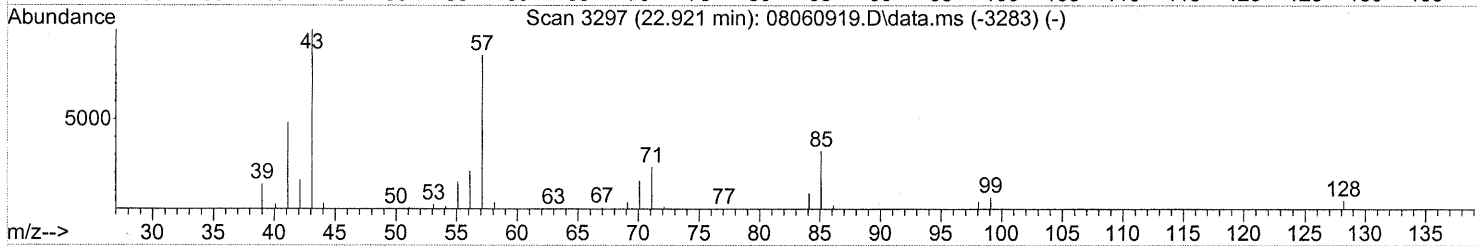
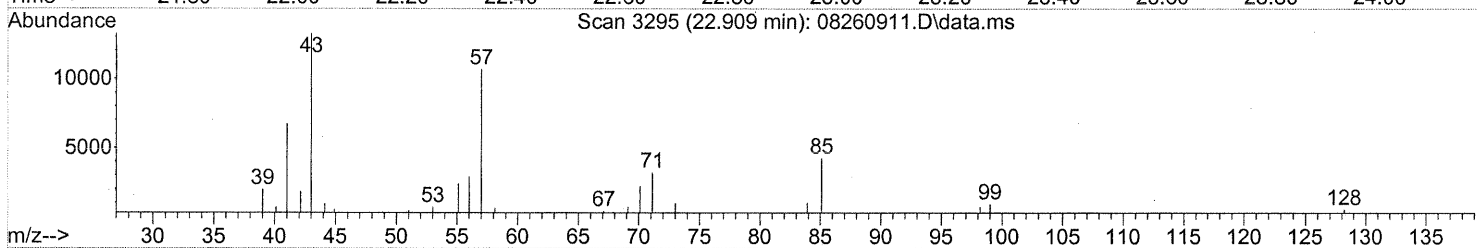
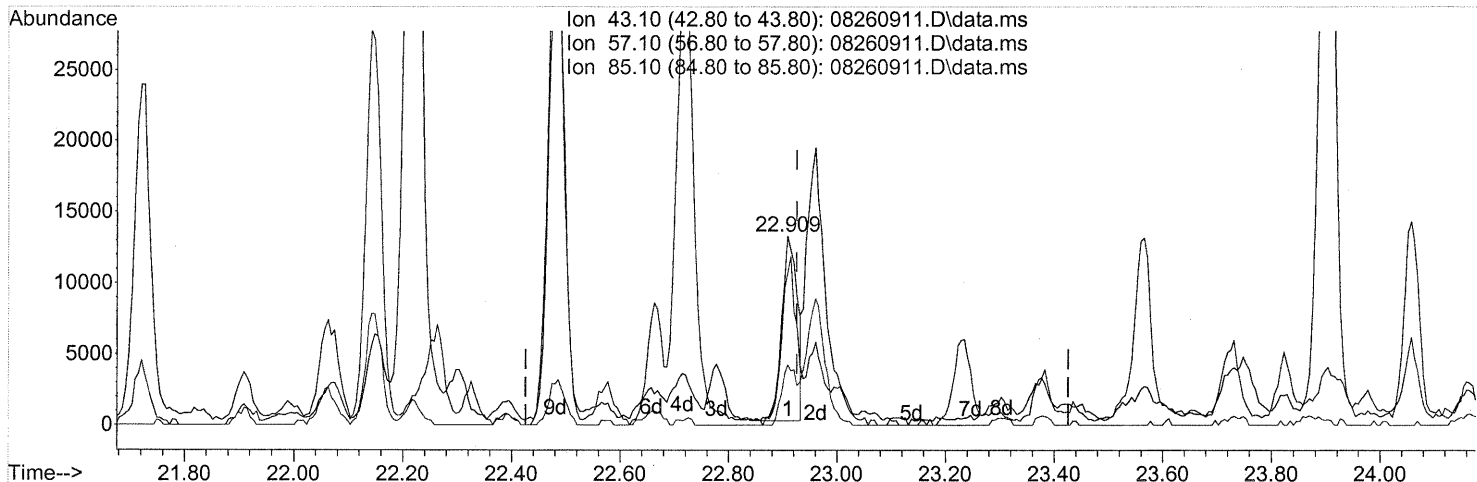
(70) o-Xylene (T)
 22.646min (-0.029) 2.44ng
 response 112690

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

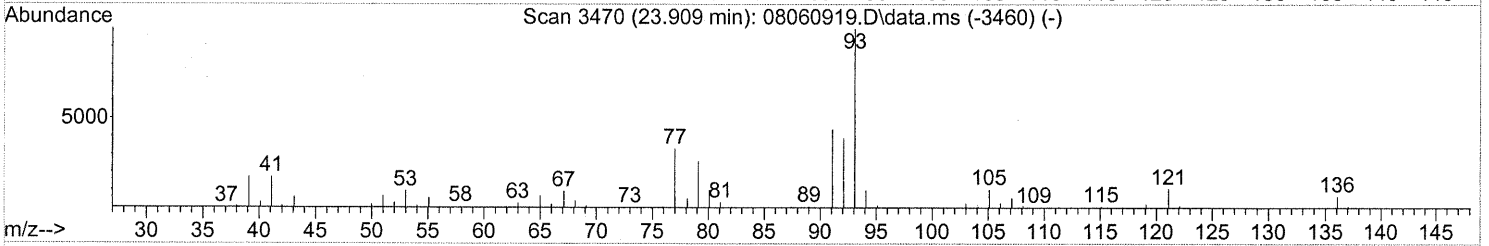
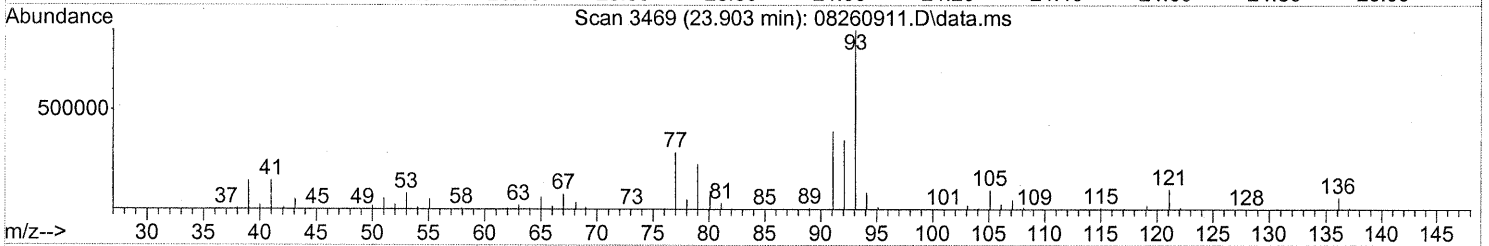
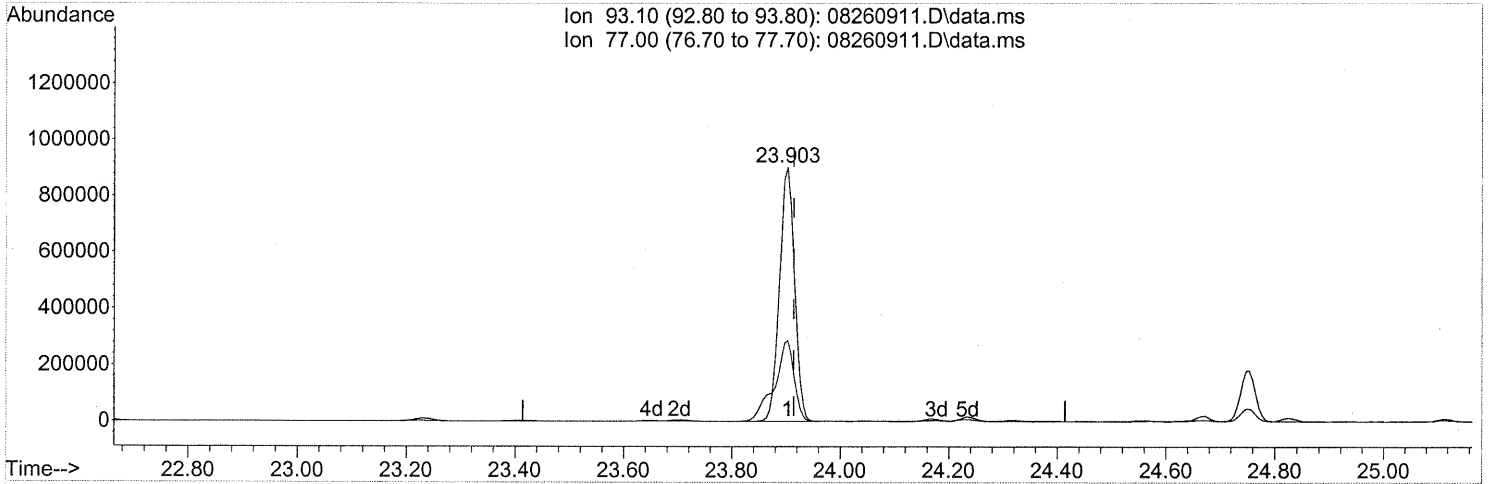
(71) n-Nonane (T)
 22.909min (-0.017) 0.85ng
 response 26204

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	92.71
85.10	30.40	33.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)
 23.903min (-0.012) 58.37ng

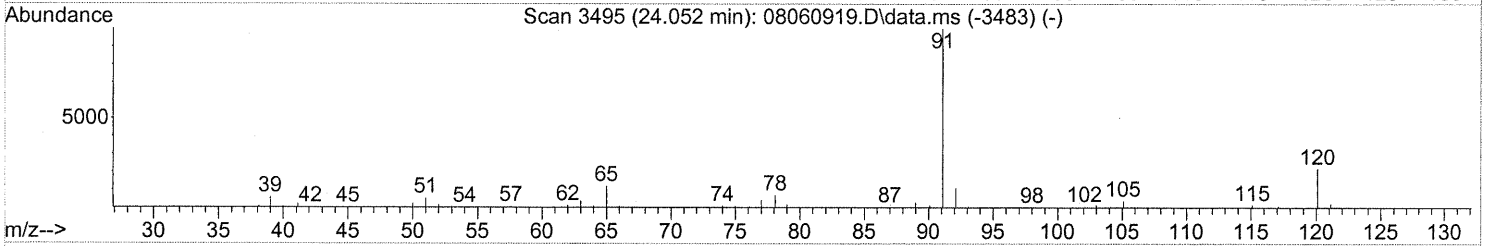
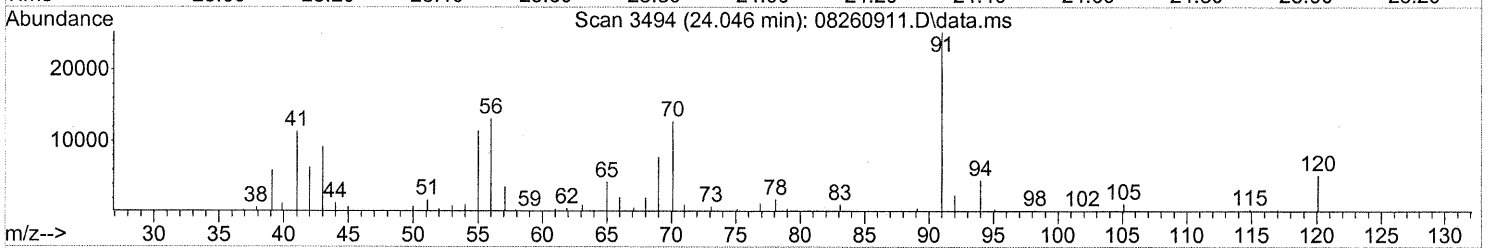
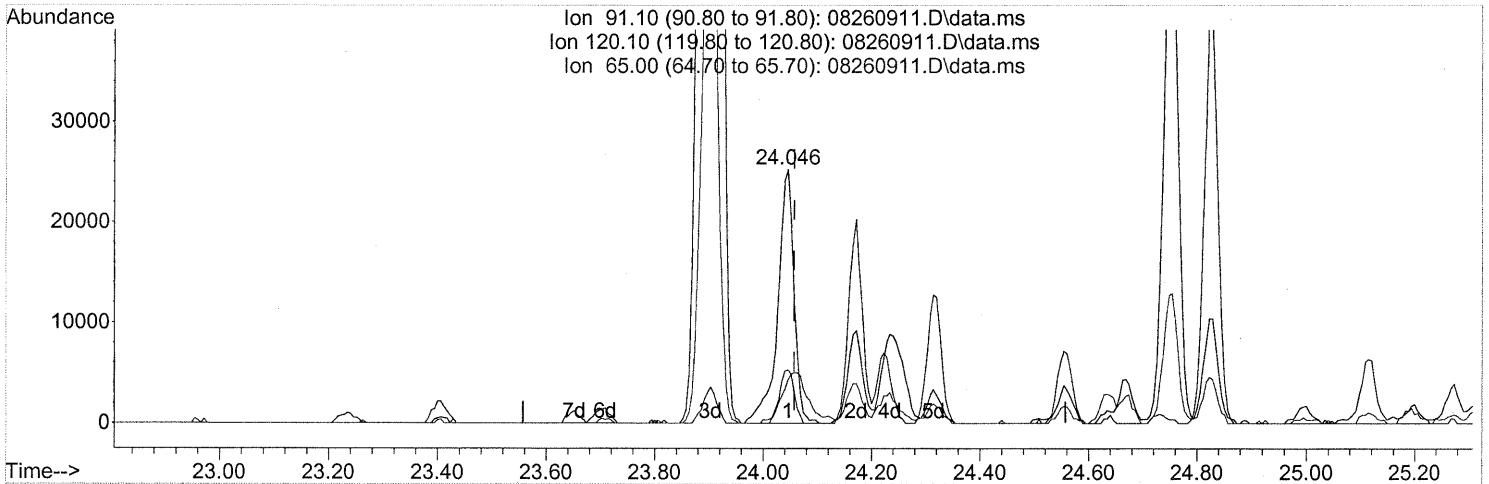
response 1746885

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	41.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.012) 0.71ng

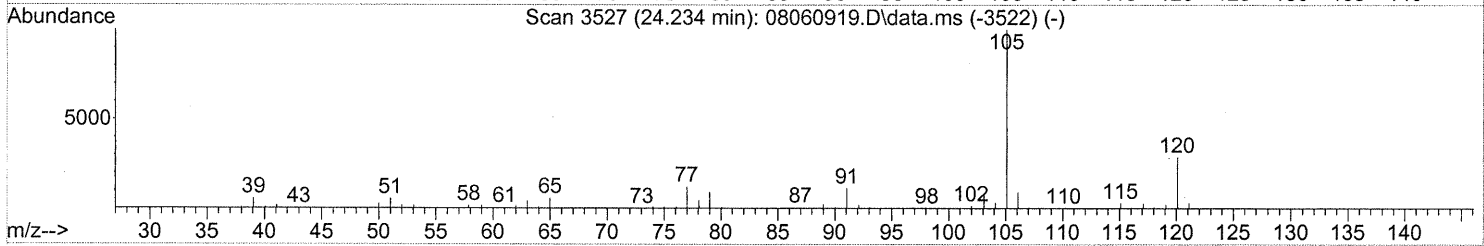
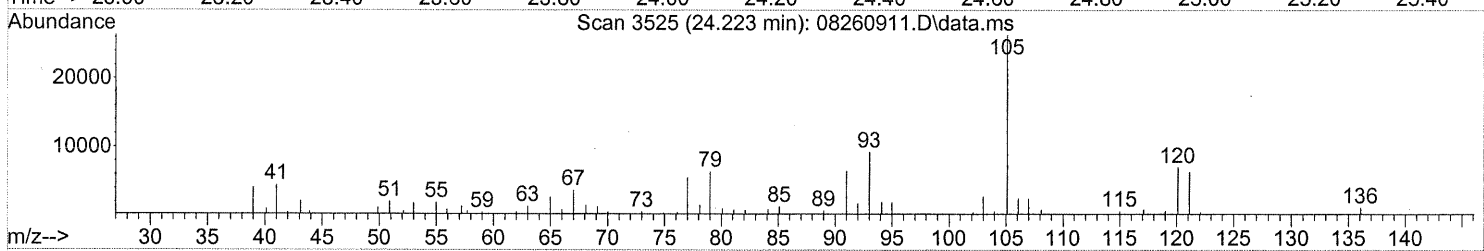
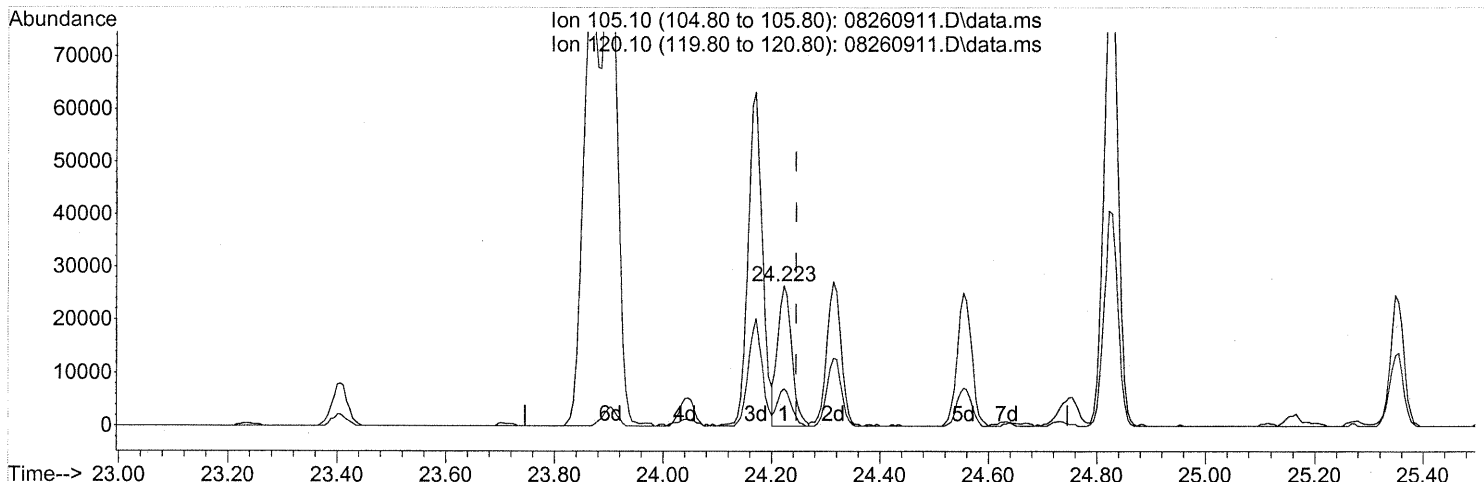
response 52125

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	19.02
65.00	12.00	32.05#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

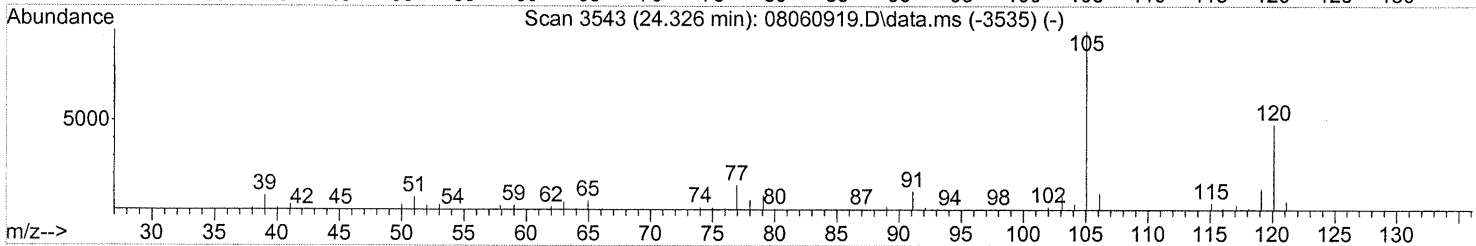
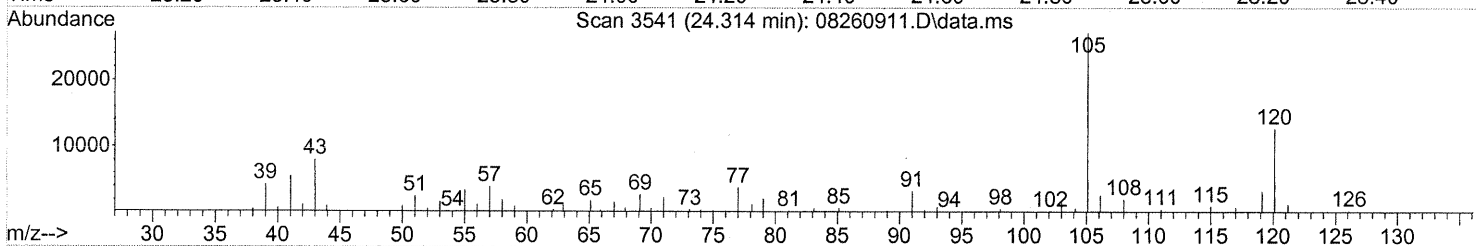
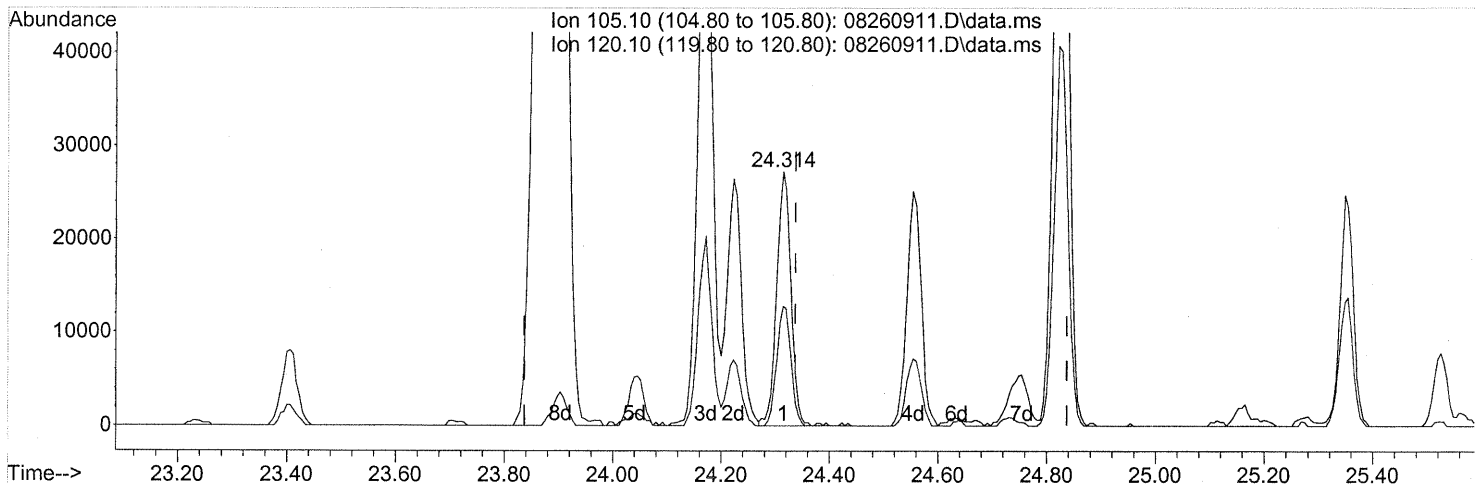
(78) 4-Ethyltoluene (T)
 24.223min (-0.023) 0.89ng
 response 47953

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	26.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

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

24.314min (-0.023) 1.09ng

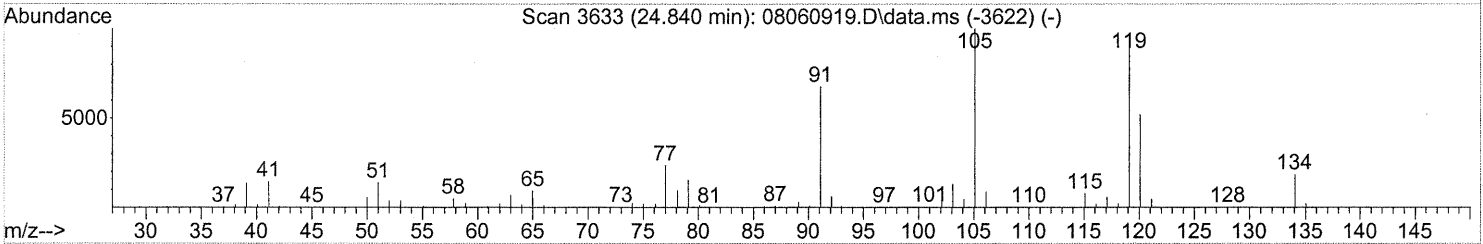
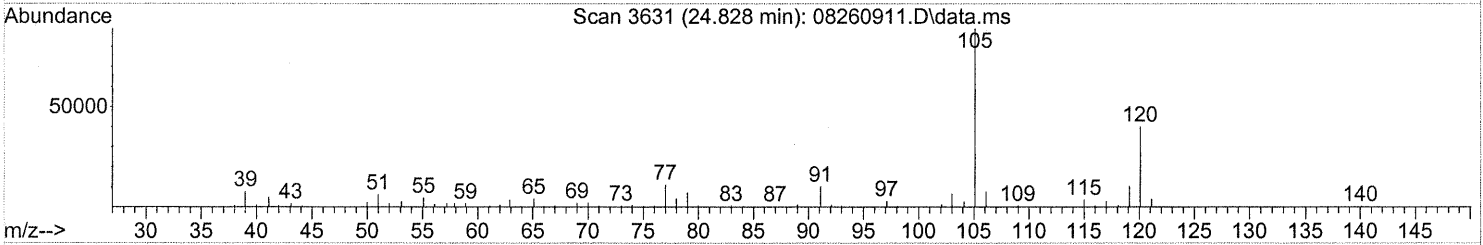
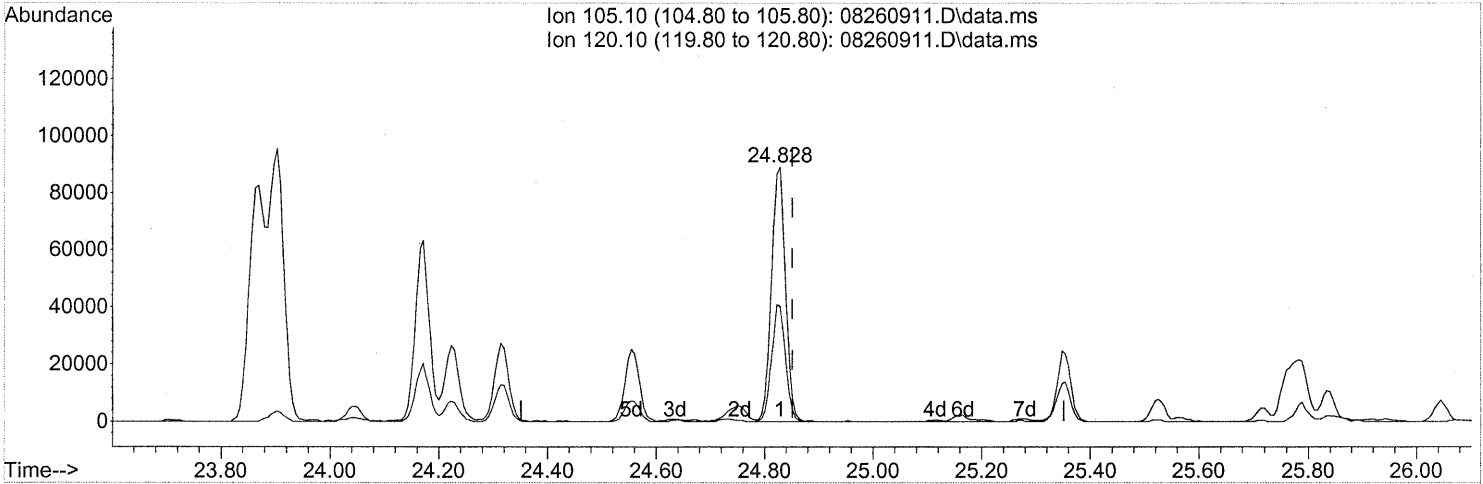
response 49616

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	46.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

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

24.828min (-0.023) 3.42ng

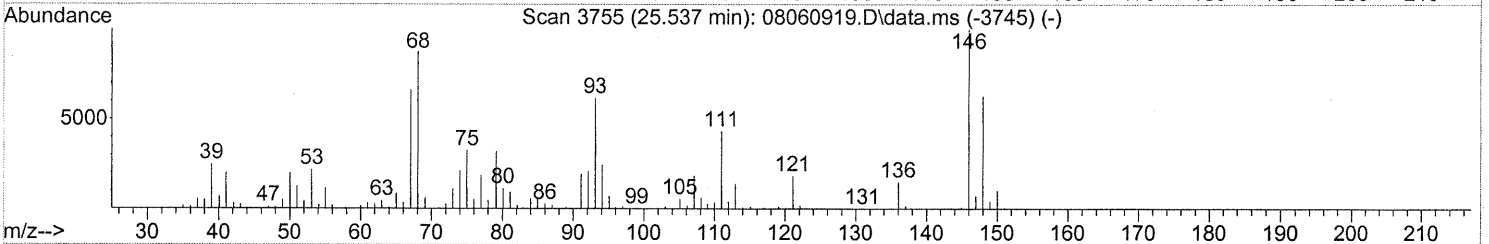
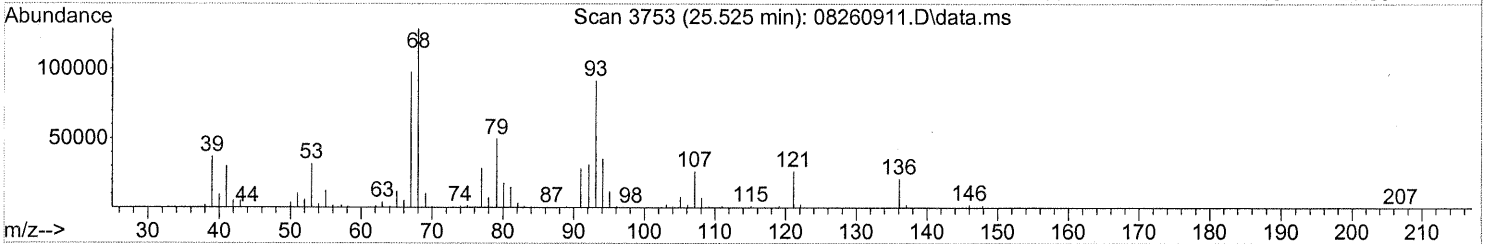
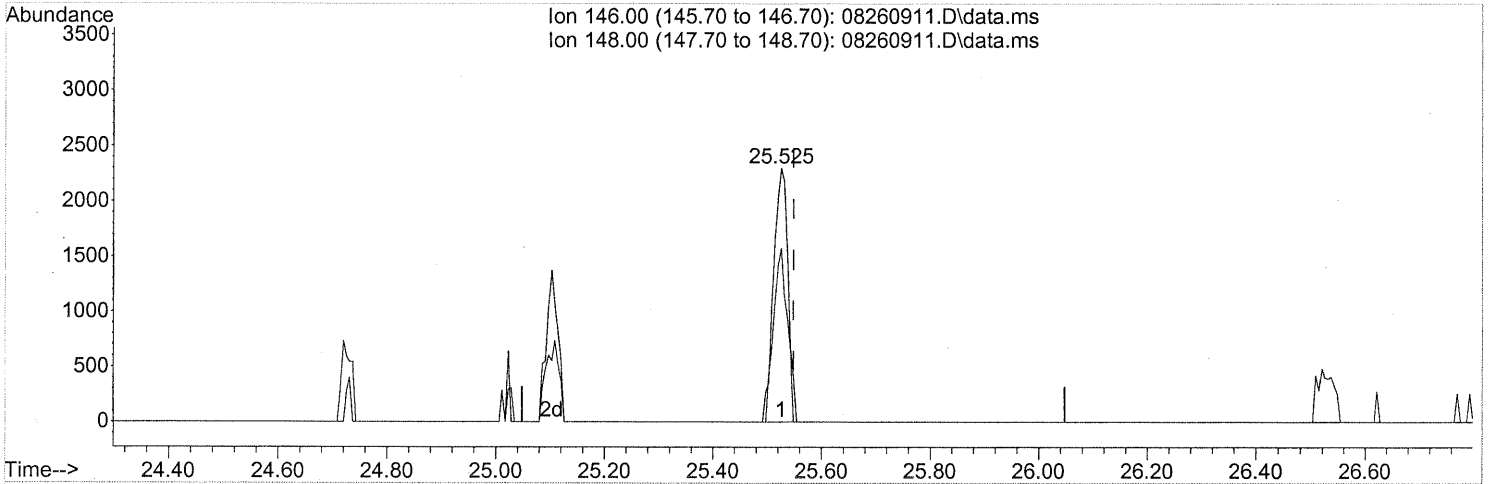
response 159144

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.525min (-0.023) 0.19ng

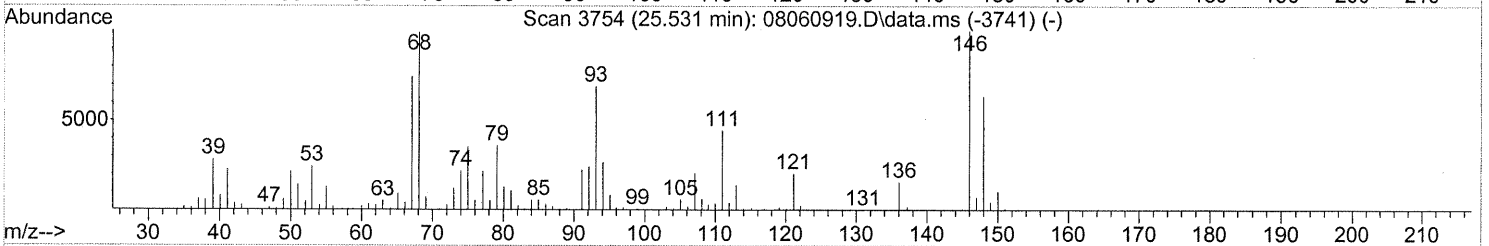
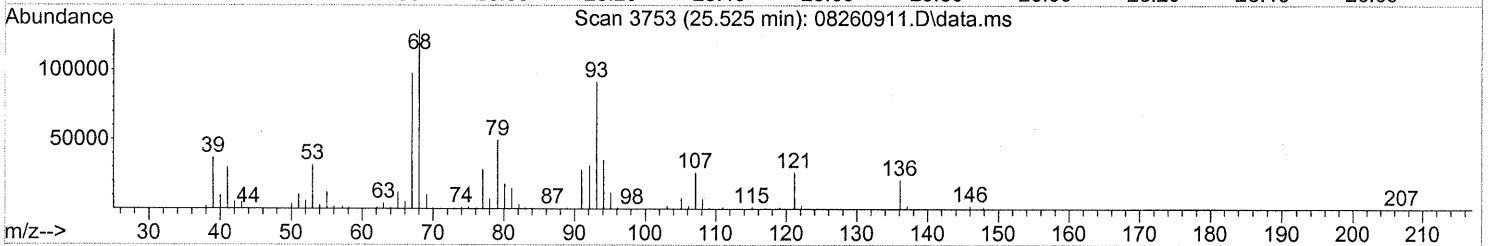
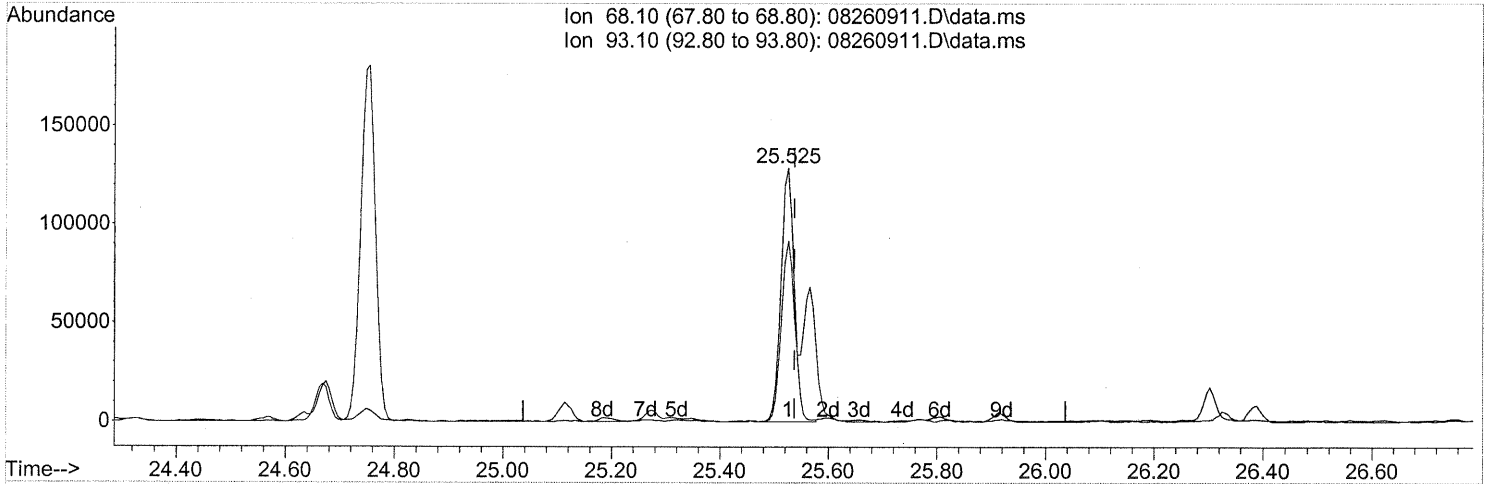
response 4256

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	63.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

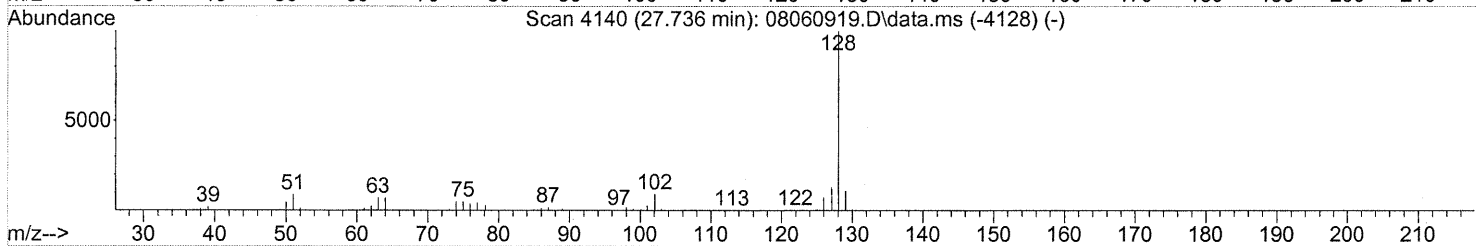
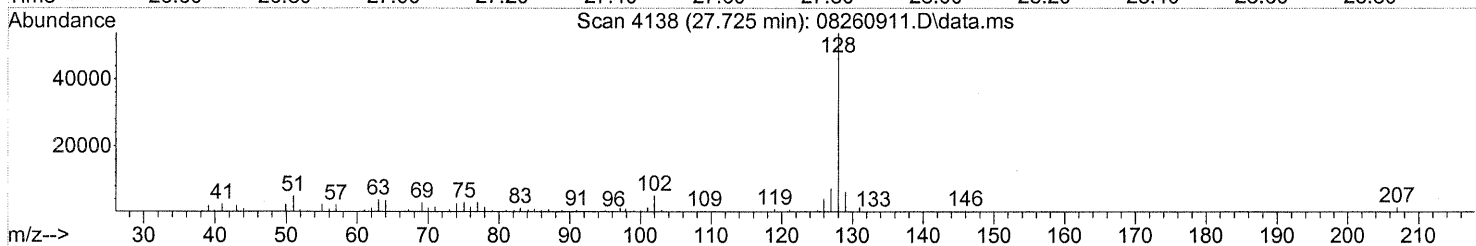
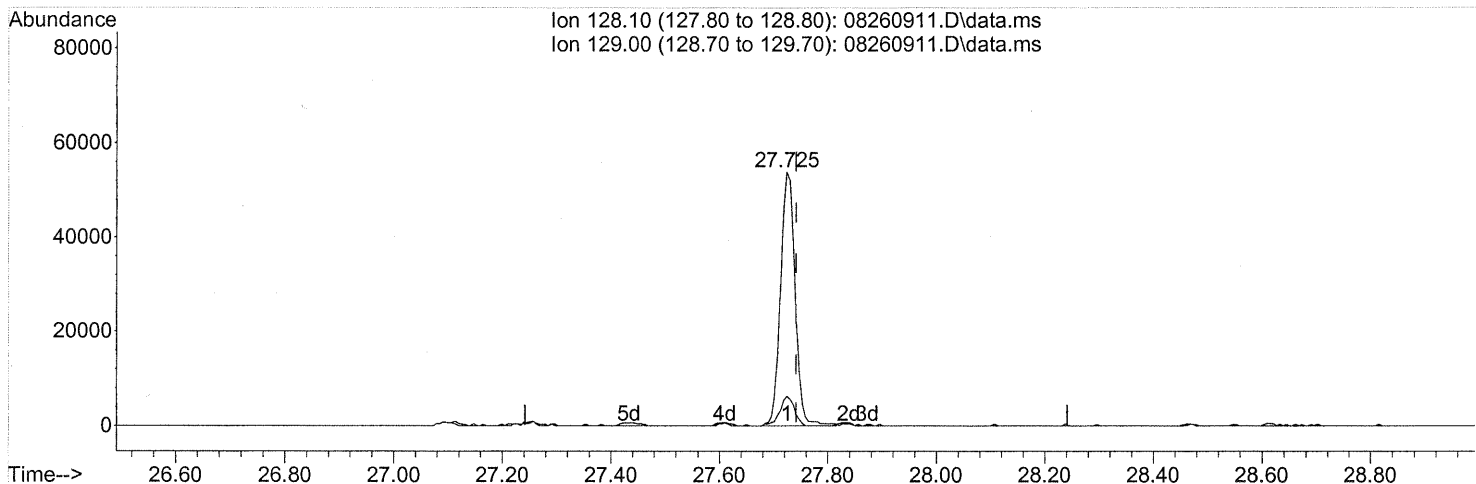
(91) d-Limonene (T)
 25.525min (-0.012) 10.96ng
 response 216715

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	75.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260911.D
 Acq On : 26 Aug 2009 17:25
 Operator : WA/CC
 Sample : P0902876-007 (1000mL)
 Misc : Environmental Health 102471
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 27 06:21:42 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260911.D\data.ms

(95) Naphthalene (T)

27.725min (-0.017) 1.59ng

response 100173

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.42
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: 102472
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01667

CAS Project ID: P0902876
CAS Sample ID: P0902876-008

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.74	ND	0.43	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.7	0.74	0.55	0.15	
74-87-3	Chloromethane	0.52	0.15	0.25	0.072	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.74	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.058	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.067	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.056	
64-17-5	Ethanol	11	7.4	5.8	3.9	
75-05-8	Acetonitrile	4.2	0.74	2.5	0.44	
107-02-8	Acrolein	1.2	0.74	0.51	0.32	
67-64-1	Acetone	17	7.4	7.3	3.1	
75-69-4	Trichlorofluoromethane	1.3	0.15	0.23	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.88	0.74	0.36	0.30	
107-13-1	Acrylonitrile	ND	0.74	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.74	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.65	0.15	0.085	0.019	
75-15-0	Carbon Disulfide	ND	0.74	ND	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.037	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	9.4	7.4	2.7	2.1	V
78-93-3	2-Butanone (MEK)	1.5	0.74	0.53	0.25	

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.

V = The continuing calibration verification standard was outside (biased high) the specified limits for this compound.

Verified By: _____

P

Date: _____

9/8/09

350

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102472
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01667

CAS Project ID: P0902876
CAS Sample ID: P0902876-008

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.037	
141-78-6	Ethyl Acetate	ND	0.74	ND	0.21	
110-54-3	n-Hexane	ND	0.74	ND	0.21	
67-66-3	Chloroform	ND	0.15	ND	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.74	ND	0.25	
107-06-2	1,2-Dichloroethane	ND	0.15	ND	0.037	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	0.39	0.15	0.12	0.046	
56-23-5	Carbon Tetrachloride	0.51	0.15	0.081	0.024	
110-82-7	Cyclohexane	ND	0.74	ND	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.028	
123-91-1	1,4-Dioxane	ND	0.74	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.74	ND	0.18	
142-82-5	n-Heptane	ND	0.74	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	4.1	0.74	0.89	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.74	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	4.0	0.74	0.89	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	1.8	0.74	0.49	0.20	
591-78-6	2-Hexanone	ND	0.74	ND	0.18	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.017	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.019	
123-86-4	n-Butyl Acetate	ND	0.74	ND	0.16	

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: 9/8/09 **351**
 TO15scan.xls - 75 Compounds - PageNo.:

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102472
Client Project ID: 16512

CAS Project ID: P0902876
CAS Sample ID: P0902876-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01667

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.48

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.74	ND	0.16	
127-18-4	Tetrachloroethene	0.21	0.15	0.031	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	ND	0.74	ND	0.17	
179601-23-1	m,p-Xylenes	0.95	0.74	0.22	0.17	
75-25-2	Bromoform	ND	0.74	ND	0.072	
100-42-5	Styrene	ND	0.74	ND	0.17	
95-47-6	o-Xylene	ND	0.74	ND	0.17	
111-84-2	n-Nonane	ND	0.74	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.74	ND	0.15	
80-56-8	alpha-Pinene	1.6	0.74	0.28	0.13	
103-65-1	n-Propylbenzene	ND	0.74	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.74	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.74	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.74	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.029	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.025	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.025	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.025	
5989-27-5	d-Limonene	1.1	0.74	0.20	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.74	ND	0.077	
120-82-1	1,2,4-Trichlorobenzene	ND	0.74	ND	0.10	
91-20-3	Naphthalene	ND	0.74	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.74	ND	0.069	

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: _____

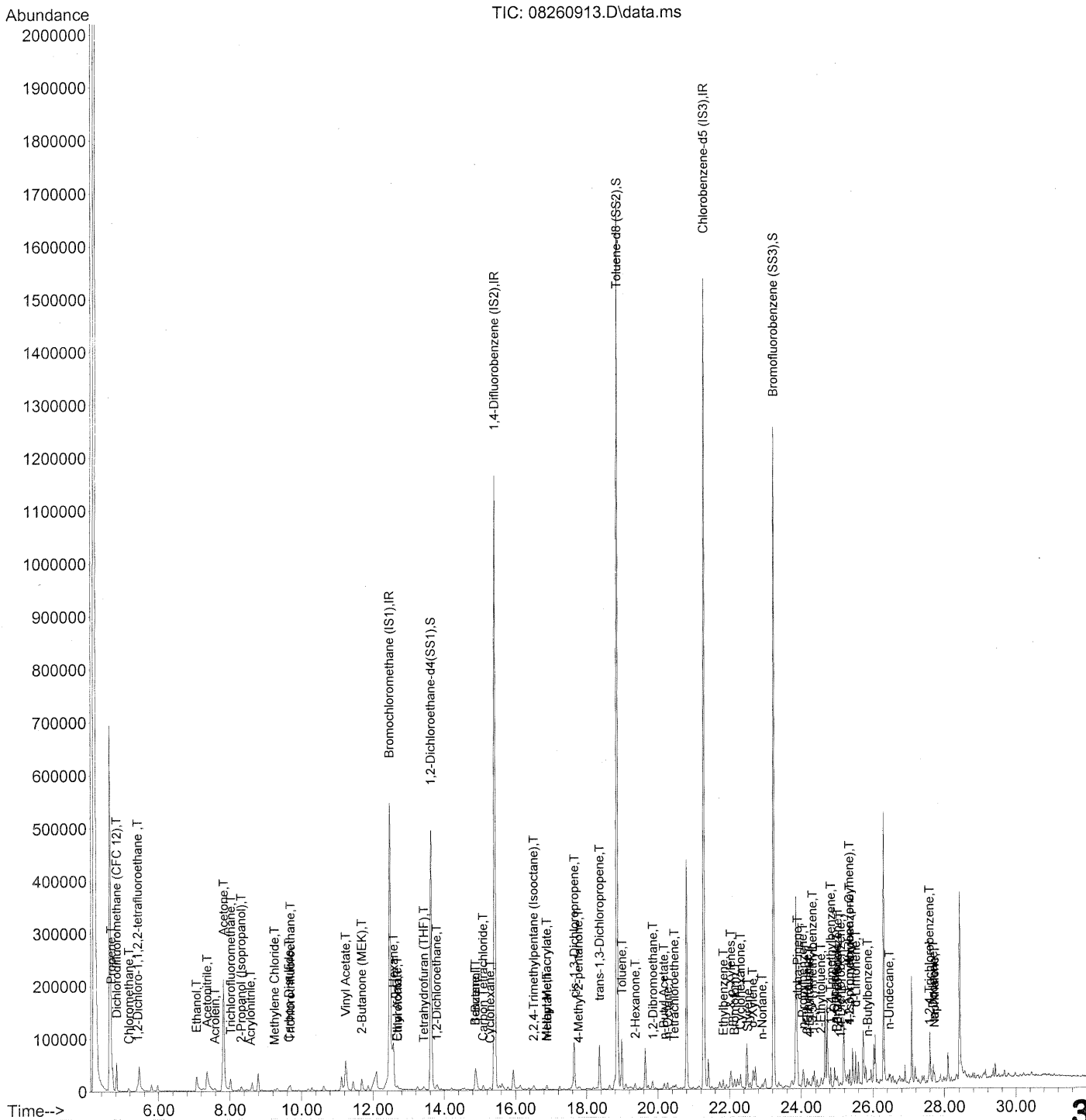
Date: _____

9/8/09

352

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

11/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	263909	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1340749	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	641533	25.000	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)	Recovery
33) 1,2-Dichloroethane-d4(...)	13.62	65	519502	22.648	ng	-0.04	90.60%
Spiked Amount				25.000			
57) Toluene-d8 (SS2)	18.85	98	1458498	26.019	ng	-0.02	104.08%
Spiked Amount				25.000			
73) Bromofluorobenzene (SS3)	23.23	174	411522	27.838	ng	-0.01	111.36%
Spiked Amount				25.000			

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	6938	0.383	ng	94
3) Dichlorodifluoromethan...	4.82	85	54585	1.844	ng	98
4) Chloromethane	5.17	50	6965	0.350	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1054	0.088	ng	# 60
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	232	N.D.		
8) Bromomethane	6.38	94	106	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	84666m	7.375	ng	
11) Acetonitrile	7.36	41	95511	2.841	ng	99
12) Acrolein	7.58	56	6958	0.796	ng	98
13) Acetone	7.82	58	127446	11.766	ng	86
14) Trichlorofluoromethane	8.02	101	23341	0.872	ng	99
15) 2-Propanol (Isopropanol)	8.31	45	25202	0.592	ng	90
16) Acrylonitrile	8.57	53	2769	0.141	ng	# 54
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.34	59	183	N.D.		
19) Methylene Chloride	9.24	84	1692	0.116	ng	95
20) 3-Chloro-1-propene (Al...	9.44	41	90	N.D.		
21) Trichlorotrifluoroethane	9.68	151	4294	0.441	ng	96
22) Carbon Disulfide	9.64	76	18754	0.366	ng	93
23) trans-1,2-Dichloroethene	10.69	61	873	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	11.23	86	13989m	6.346	ng	
27) 2-Butanone (MEK)	11.68	72	10226	1.046	ng	92
28) cis-1,2-Dichloroethene	12.23	61	265	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.67	61	777	0.153	ng	81
31) n-Hexane	12.57	57	7581	0.291	ng	97

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	1325	0.058 ng	#	43
34) Tetrahydrofuran (THF)	13.42	72	1922	0.184 ng	#	76
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.78	62	1513	0.072 ng	#	44
38) 1,1,1-Trichloroethane	14.17	97	108	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.87	56	35292	2.028 ng		82
41) Benzene	<u>14.87</u>	78	15374	<u>0.261</u> ng		98
42) Carbon Tetrachloride	<u>15.09</u>	117	6448	<u>0.343</u> ng		98
43) Cyclohexane	15.28	84	2258	0.105 ng	#	3
44) tert-Amyl Methyl Ether	15.97	73	2095	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...	16.51	57	10393	0.150 ng		89
50) Methyl Methacrylate	16.87	100	314	0.058 ng	#	1
51) n-Heptane	16.88	71	1883	0.119 ng		94
52) cis-1,3-Dichloropropene	<u>17.65</u>	75	67176	<u>2.738</u> ng		98
53) 4-Methyl-2-pentanone	17.76	58	1229	0.087 ng	#	33
54) trans-1,3-Dichloropropene	<u>18.36</u>	75	63637	<u>2.728</u> ng		100
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	<u>18.98</u>	91	68425	<u>1.242</u> ng		99
59) 2-Hexanone	19.36	43	8995	0.246 ng		87
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	19.86	107	1153	0.083 ng		94
62) n-Butyl Acetate	20.17	43	9566	0.222 ng	#	75
63) n-Octane	20.27	57	2337	0.175 ng		96
64) Tetrachloroethene	<u>20.46</u>	166	1794	<u>0.141</u> ng		95
65) Chlorobenzene	21.34	112	1189	N.D.		
66) Ethylbenzene	21.82	91	15578	0.247 ng		96
67) m- & p-Xylenes	<u>22.04</u>	91	32654	0.641 ng	yes	99
68) Bromoform	22.14	173	701	0.065 ng	#	29
69) Styrene	22.51	104	8790	0.239 ng		97
70) o-Xylene	22.65	91	13368	0.262 ng		97
71) n-Nonane	22.91	43	5943	0.175 ng	#	77
72) 1,1,2,2-Tetrachloroethane	22.49	83	199	N.D.		
74) Cumene	23.41	105	1894	N.D.		
75) alpha-Pinene	<u>23.90</u>	93	35375	<u>1.070</u> ng	#	42
76) n-Propylbenzene	24.05	91	5470	0.067 ng	#	86
77) 3-Ethyltoluene	24.17	105	11883	0.193 ng		95
78) 4-Ethyltoluene	24.22	105	5563	0.093 ng		100
79) 1,3,5-Trimethylbenzene	24.31	105	4759	0.094 ng		98

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

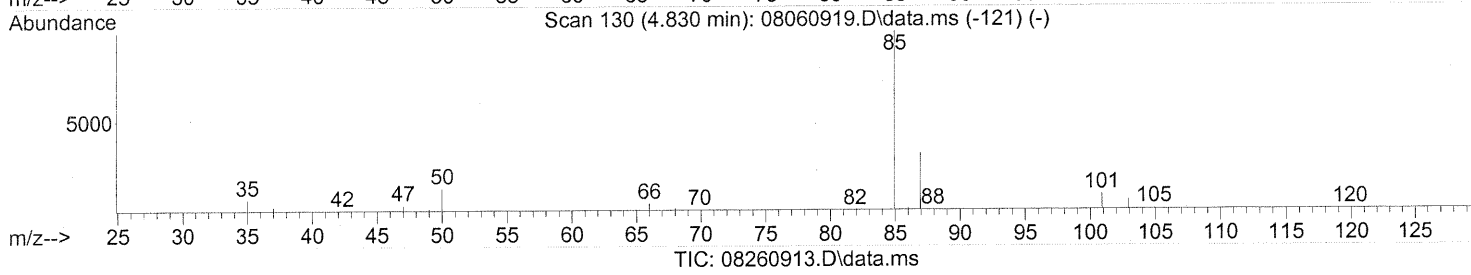
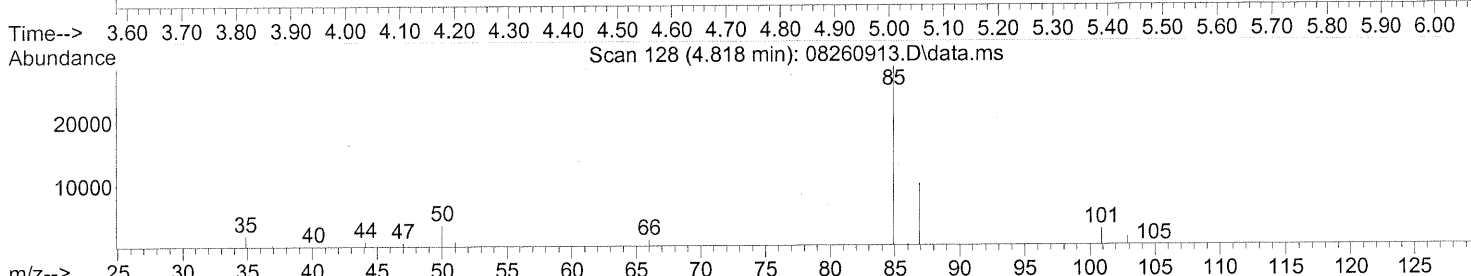
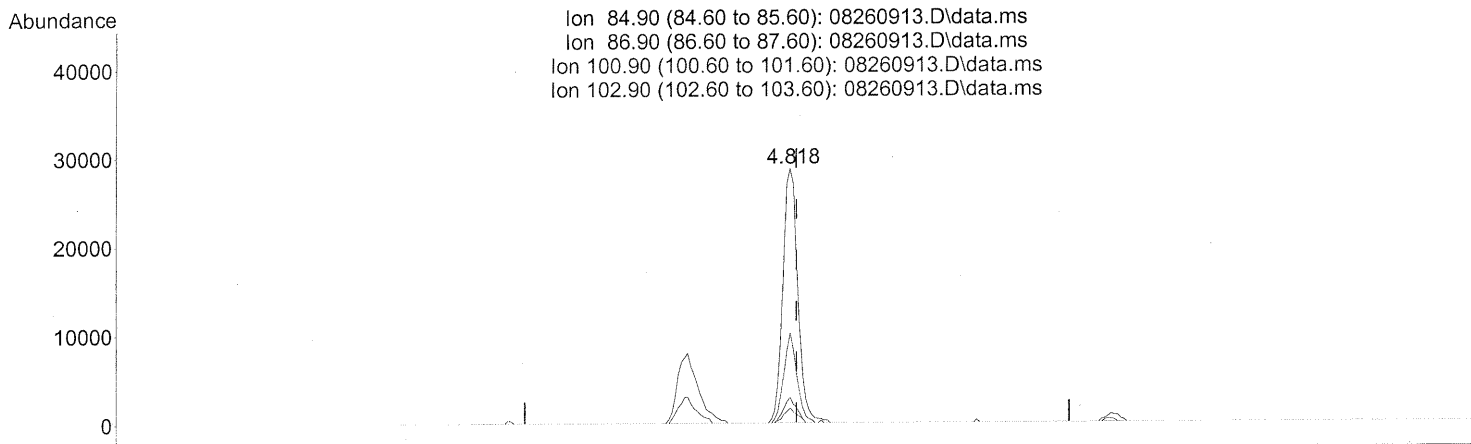
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1038	N.D.		
81) 2-Ethyltoluene	24.55	105	5048	0.081 ng		87
82) 1,2,4-Trimethylbenzene	24.83	105	15319	0.298 ng		87
83) n-Decane	24.93	57	19665	0.589 ng		81
84) Benzyl Chloride	25.00	91	4738	0.098 ng		94
85) 1,3-Dichlorobenzene	25.02	146	1501	0.058 ng		98
86) 1,4-Dichlorobenzene	25.10	146	2580	0.093 ng		99
87) sec-Butylbenzene	25.18	105	291	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	4361	0.070 ng	#	72
89) 1,2,3-Trimethylbenzene	25.35	105	4815	0.092 ng		97
90) 1,2-Dichlorobenzene	25.51	146	994	N.D.		
91) d-Limonene	25.53	68	16477	0.754 ng		83
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	7767	0.219 ng		86
94) 1,2,4-Trichlorobenzene	27.58	180	1672	0.099 ng	#	81
95) Naphthalene	27.72	128	14779	0.212 ng		96
96) n-Dodecane	27.69	57	12253	0.297 ng		86
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	14547	0.637 ng		99
99) tert-Butylbenzene	24.82	119	1996	N.D.		
100) n-Butylbenzene	25.86	91	4314	0.075 ng	#	48

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260913.D
Acq On : 26 Aug 2009 6:47 pm
Operator : WA/CC
Sample : P0902876-008 (1000mL)
Misc : Environmental Health 102472
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.011) 1.84ng

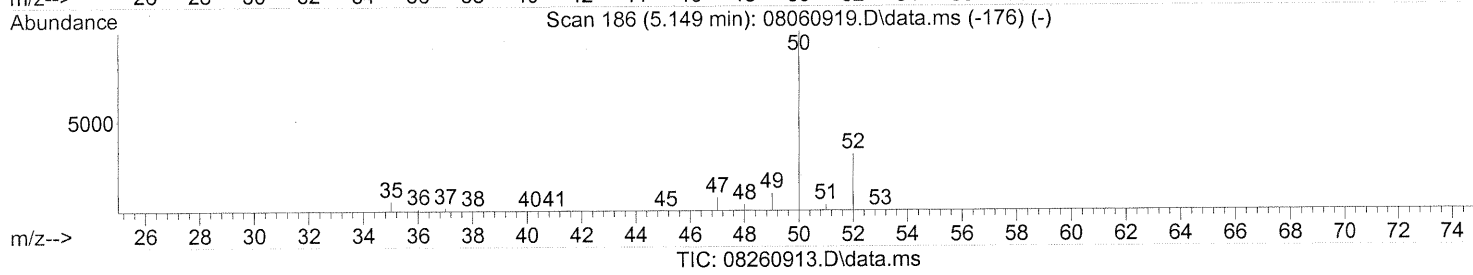
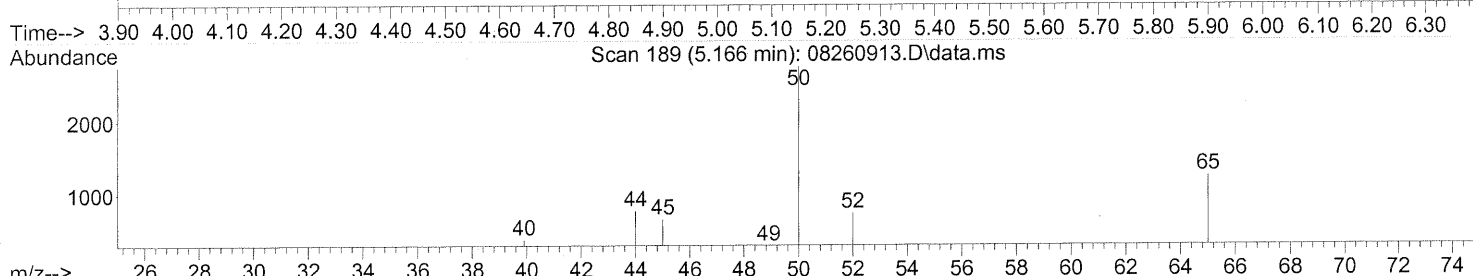
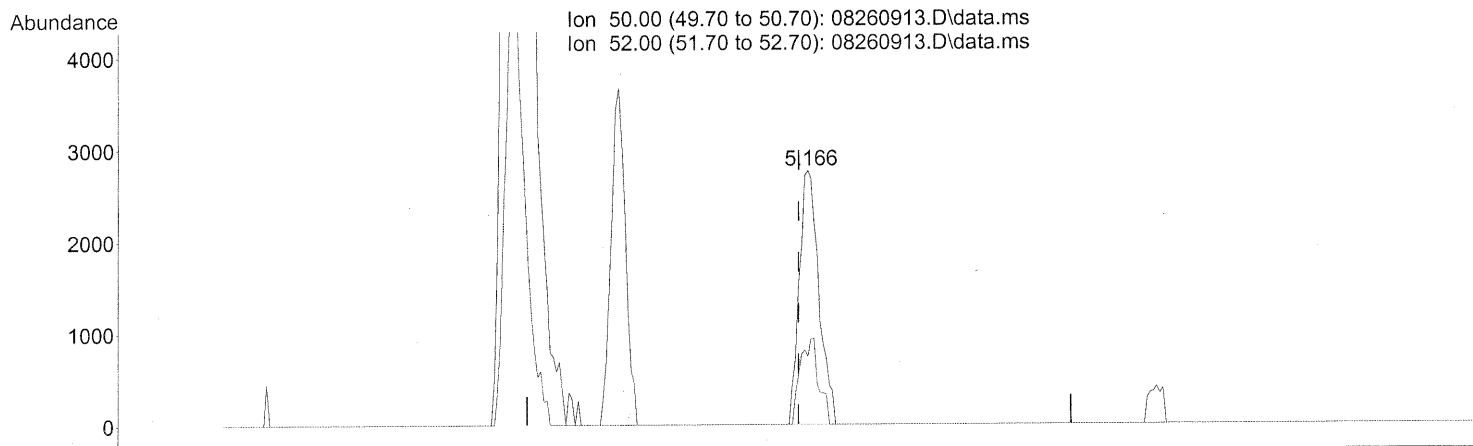
response 54585

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	30.95
100.90	8.80	8.59
102.90	5.20	4.99

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.166min (+0.017) 0.35ng

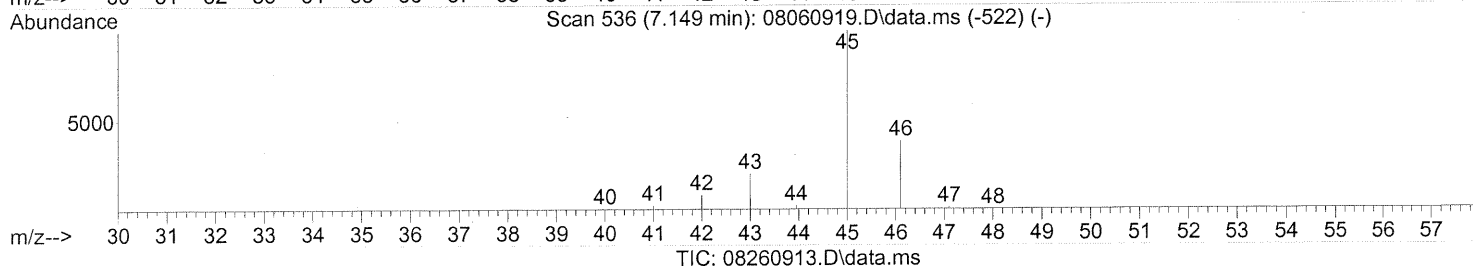
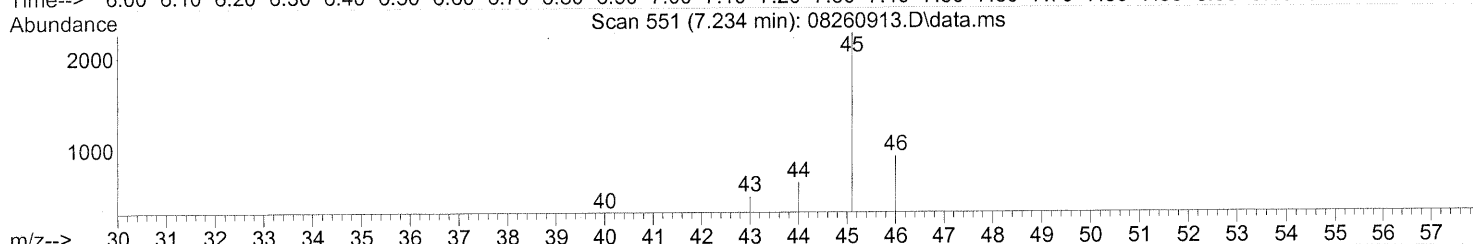
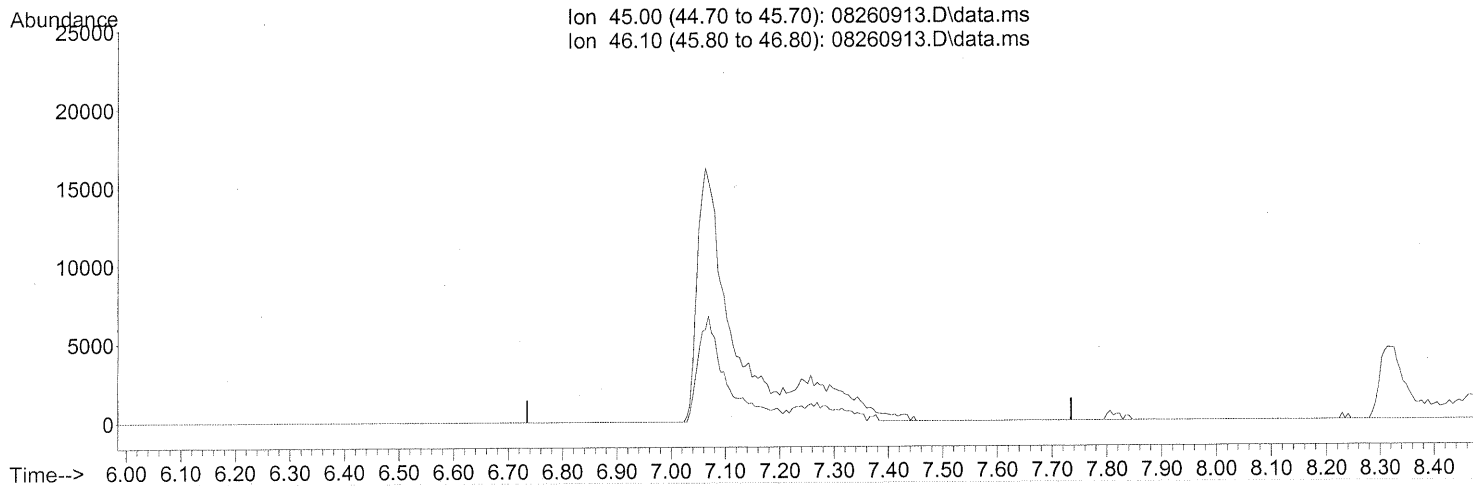
response 6965

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	31.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.234min (-7.234) 0.00ng
 response 0

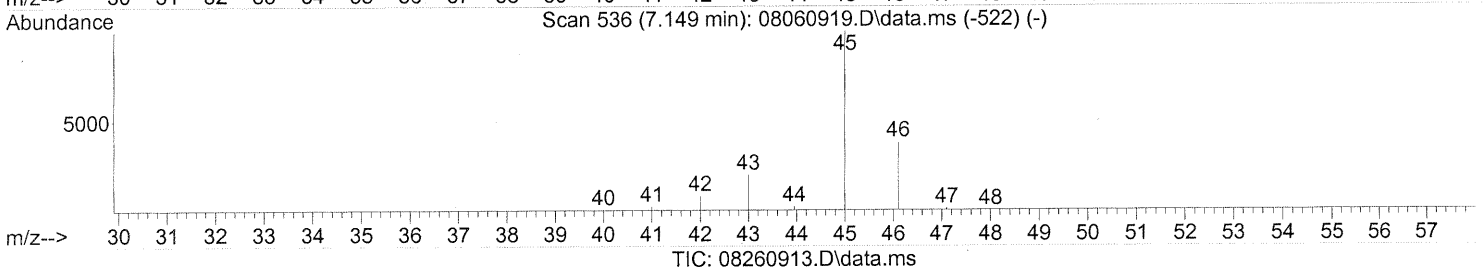
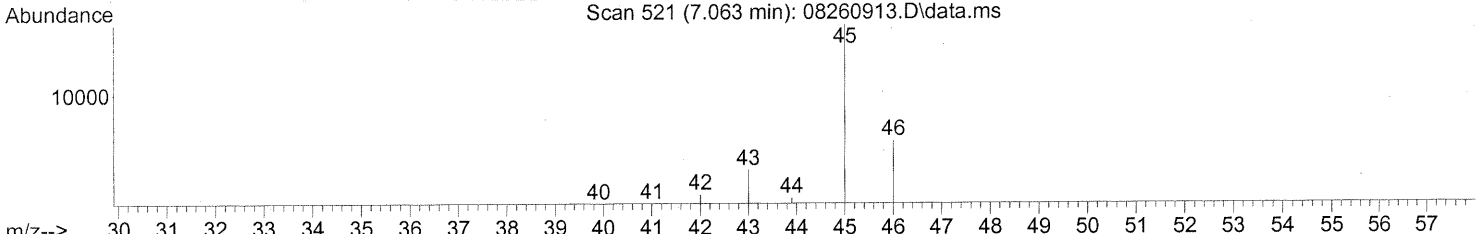
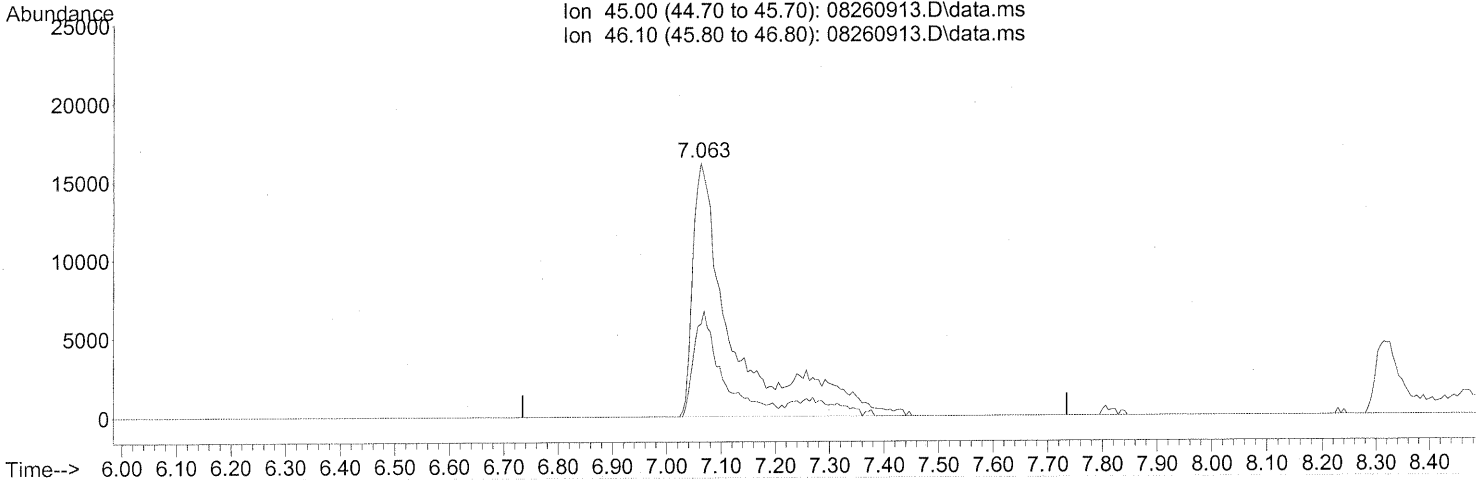
Ion	Exp%	Act%
45.00	100	0.00
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BMI

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.063min (-0.171) 7.38ng m
 response 84666

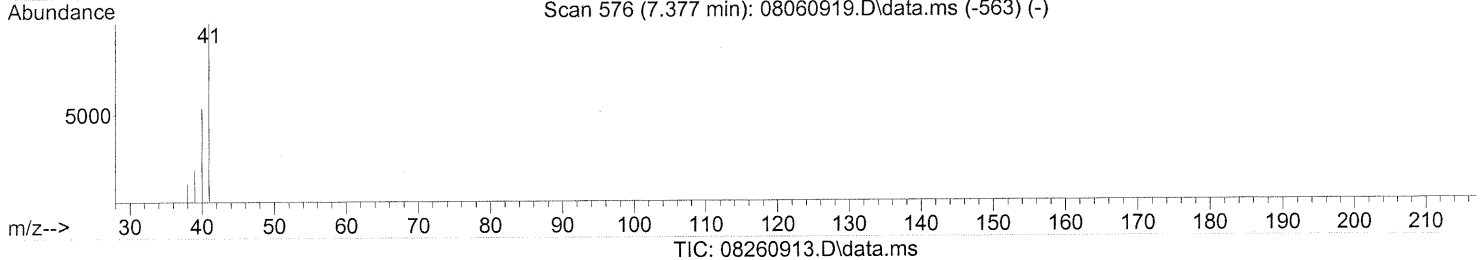
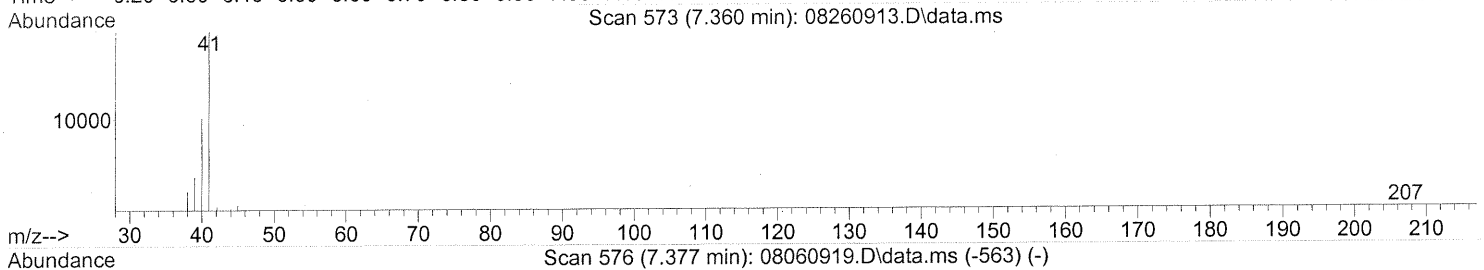
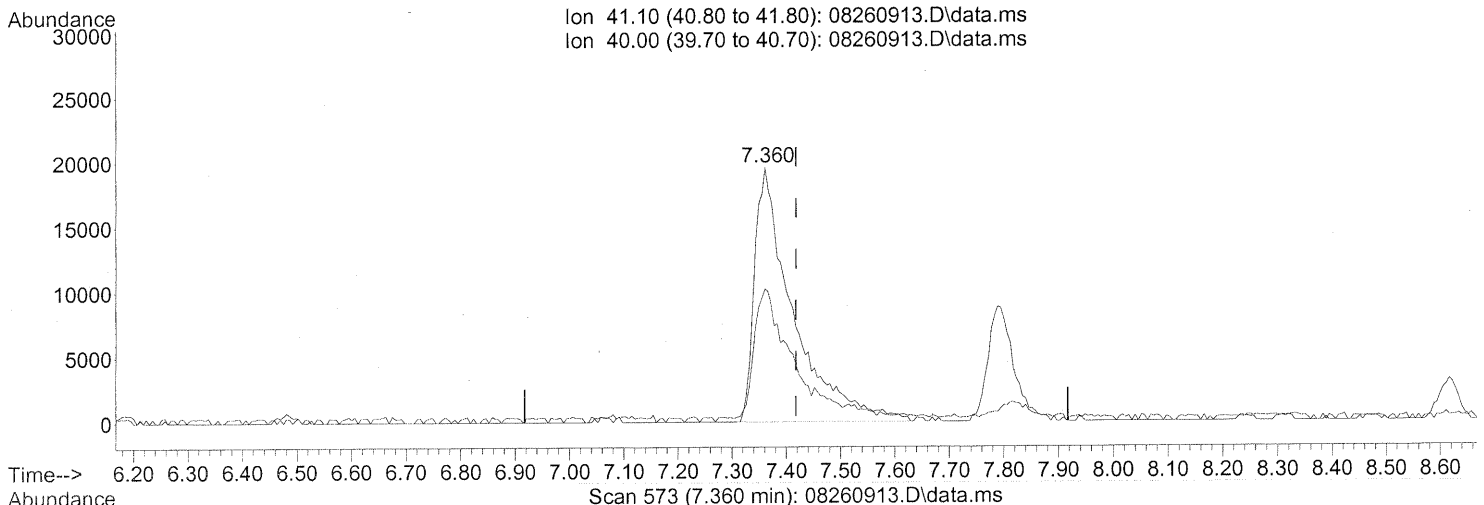
Ion	Exp%	Act%
45.00	100	100
46.10	38.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

BMI -> IC
mg/100
R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



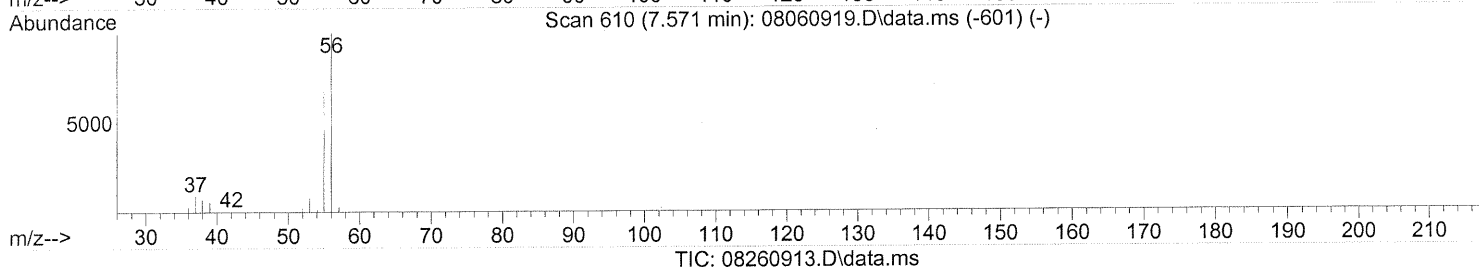
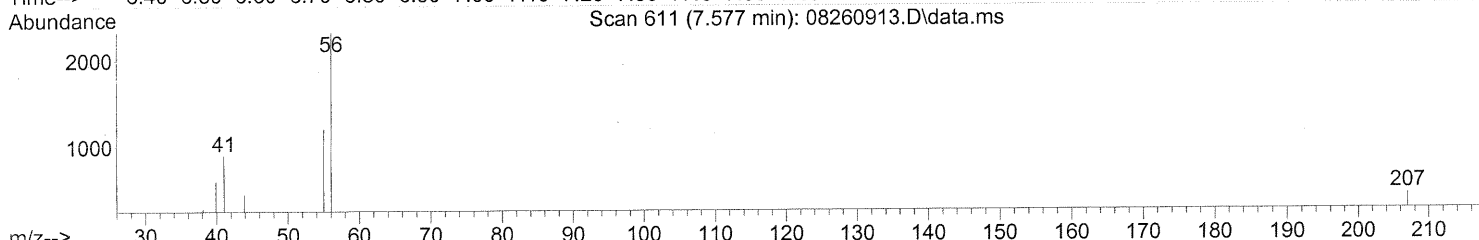
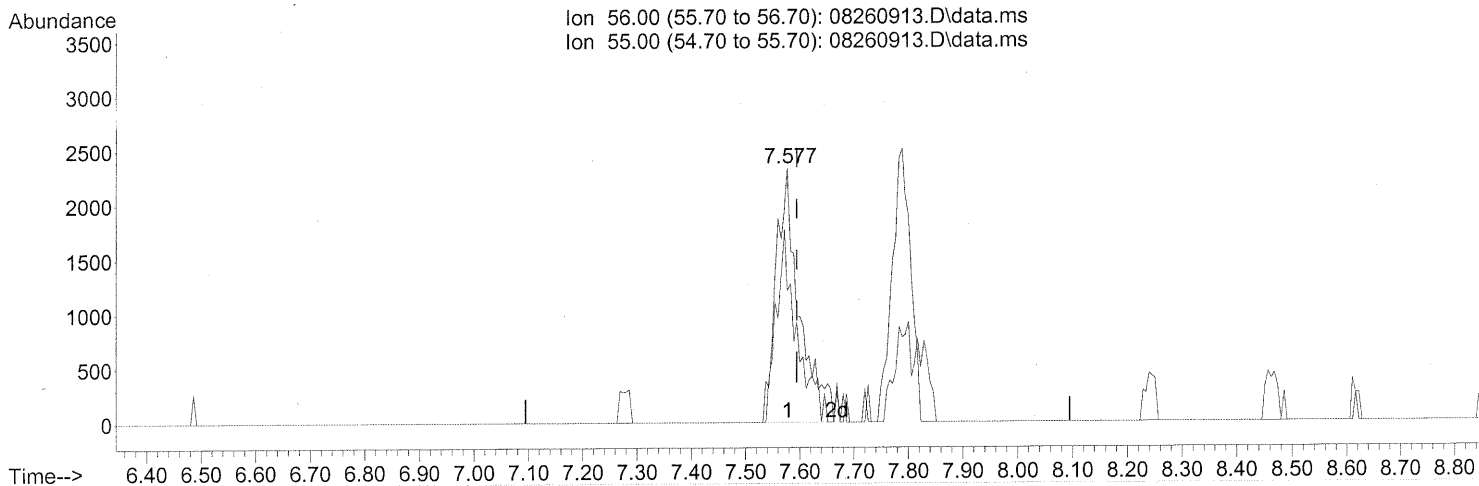
(11) Acetonitrile (T)
 7.360min (-0.057) 2.84ng
 response 95511

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260913.D
Acq On : 26 Aug 2009 6:47 pm
Operator : WA/CC
Sample : P0902876-008 (1000mL)
Misc : Environmental Health 102472
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(12) Acrolein (T)

7.577min (-0.017) 0.80ng

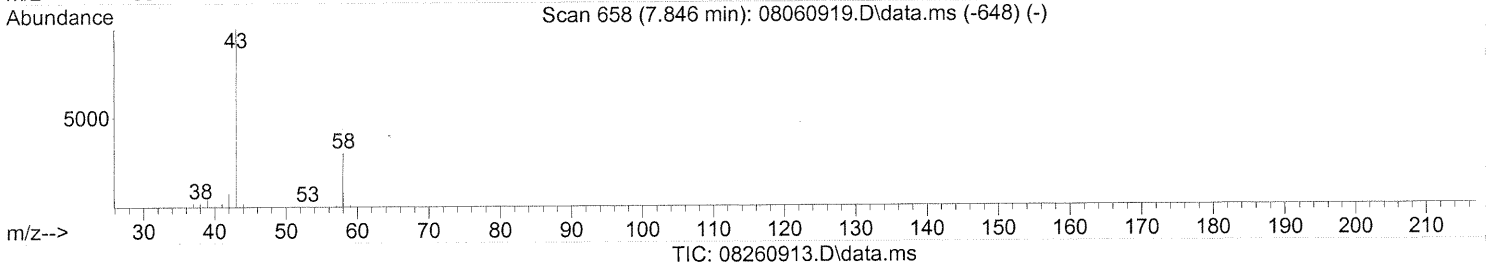
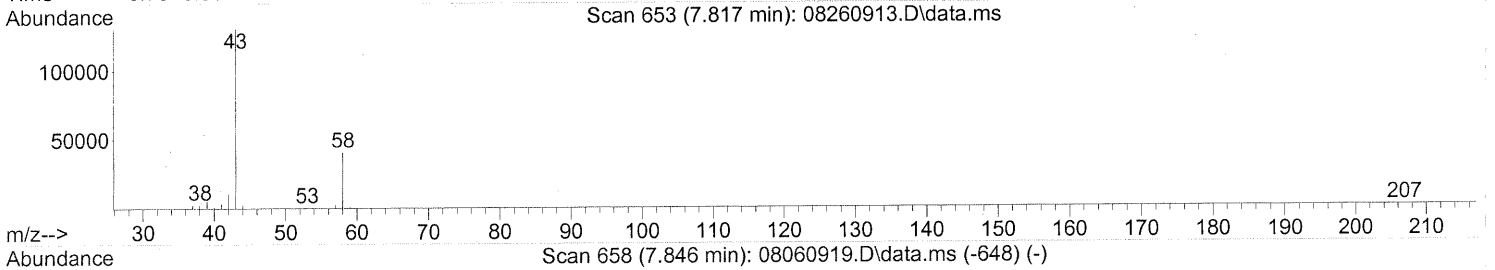
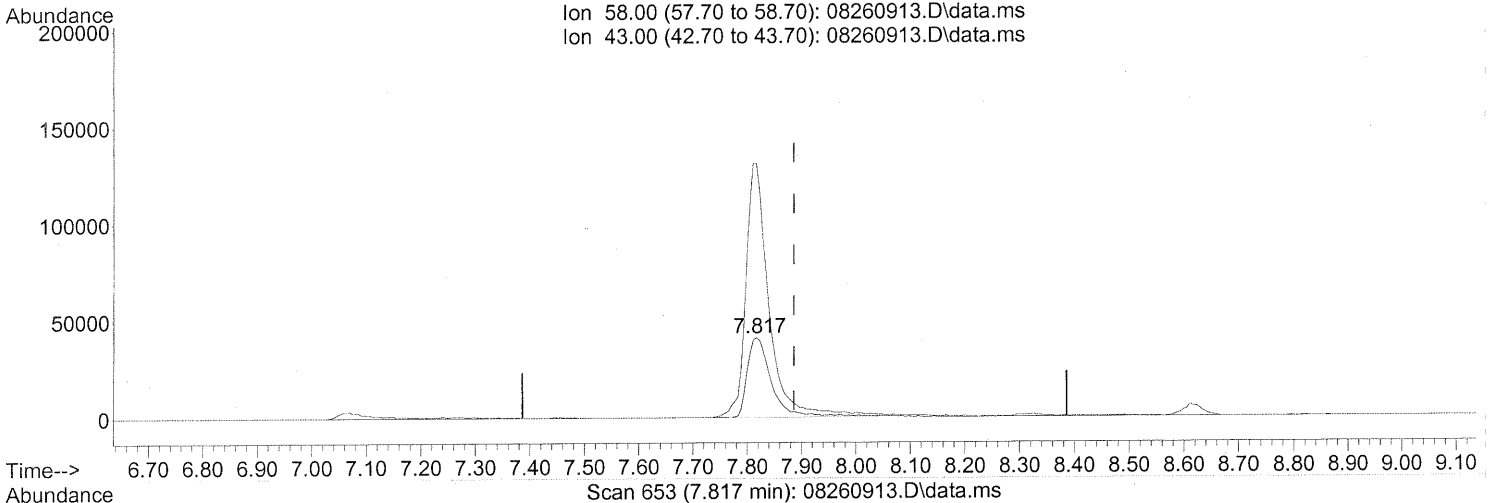
response 6958

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	66.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260913.D
Acq On : 26 Aug 2009 6:47 pm
Operator : WA/CC
Sample : P0902876-008 (1000mL)
Misc : Environmental Health 102472
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



(13) Acetone (T)

7.817min (-0.069) 11.77ng

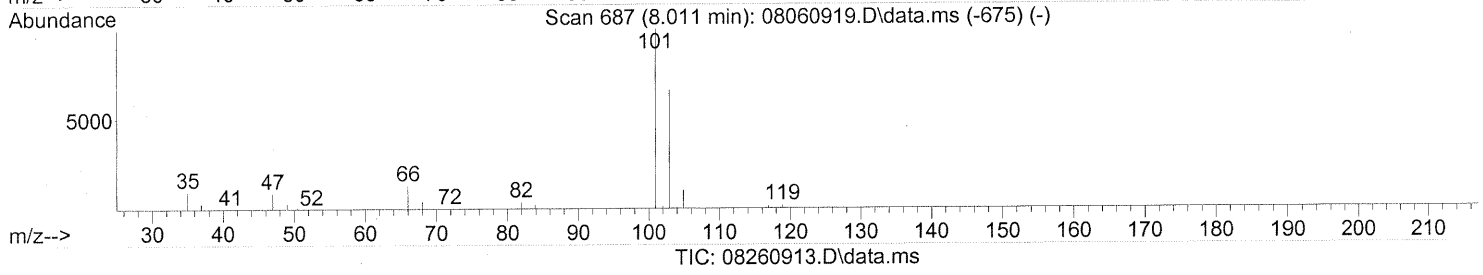
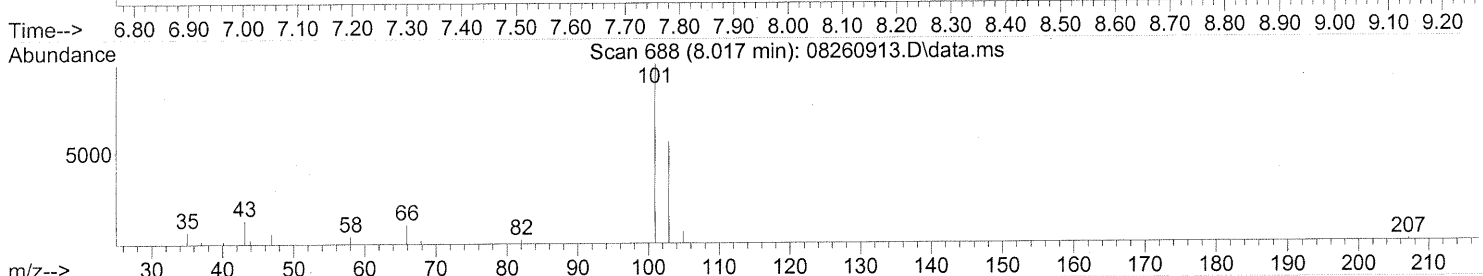
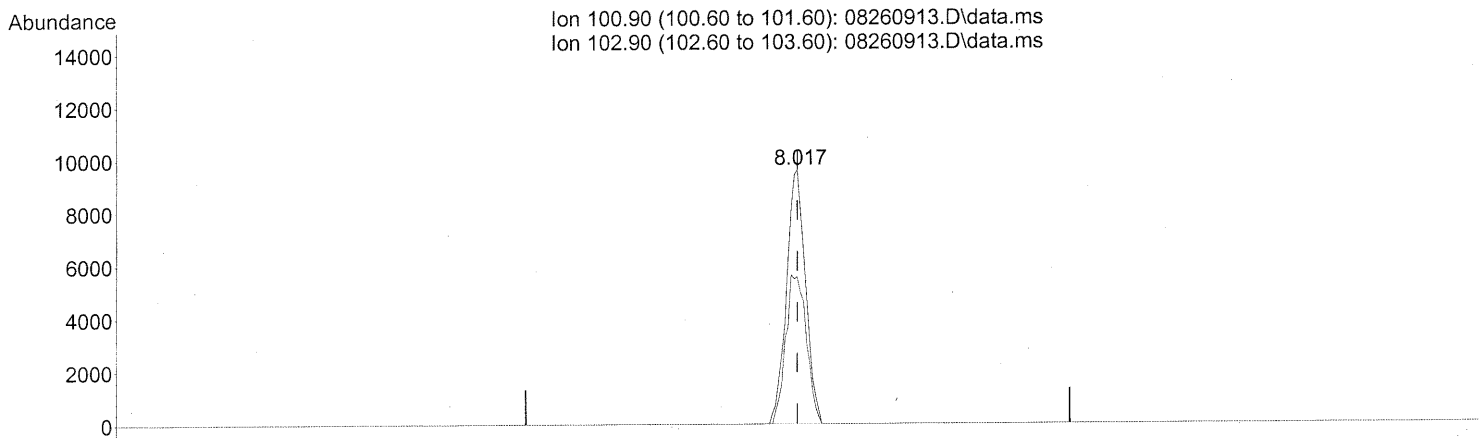
response 127446

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	311.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.017min (-0.000) 0.87ng

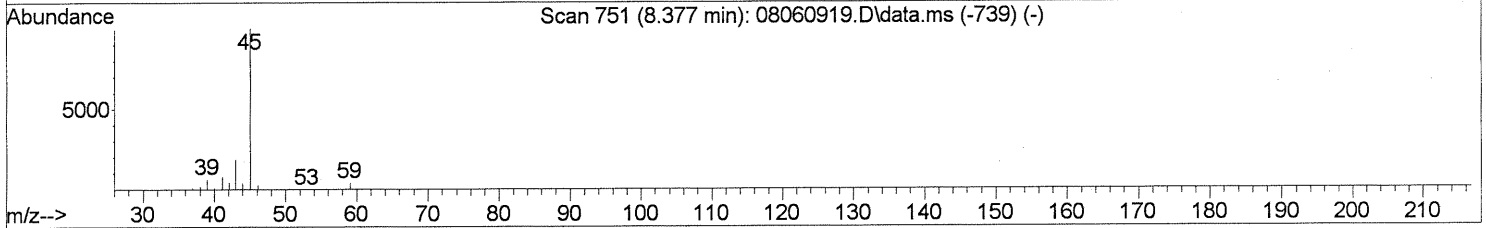
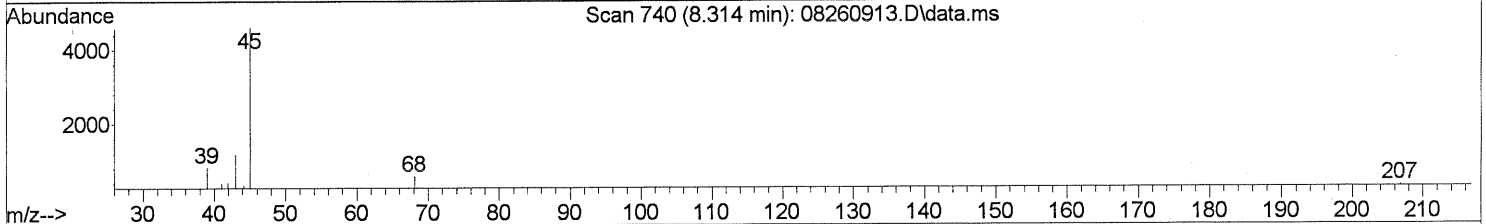
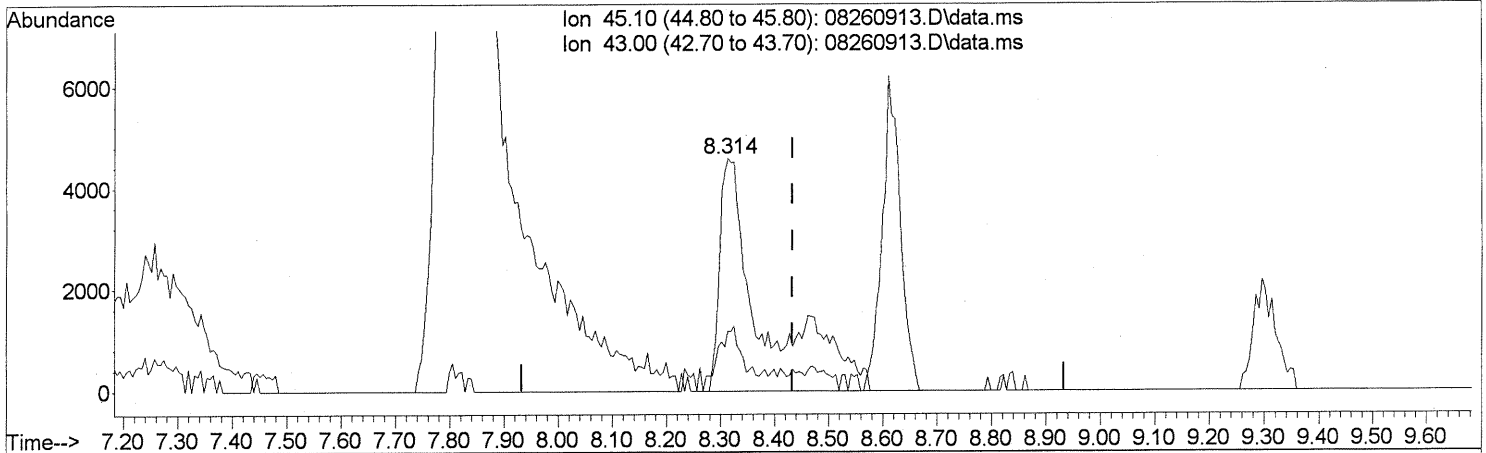
response 23341

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 18:47
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



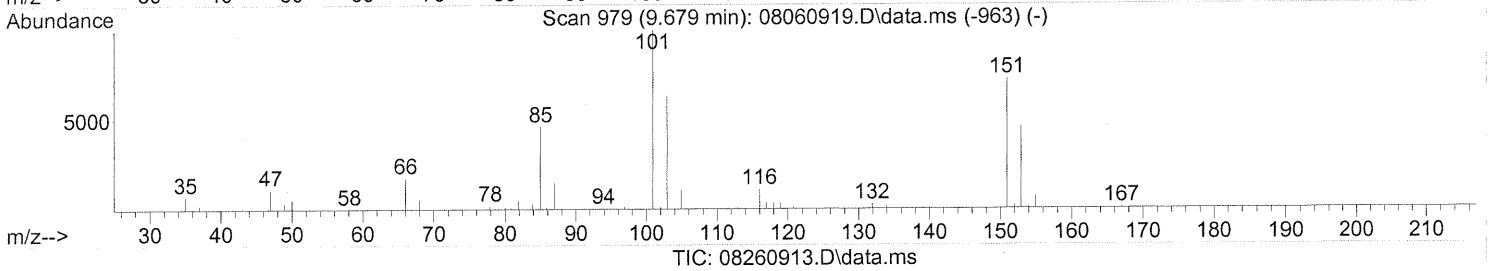
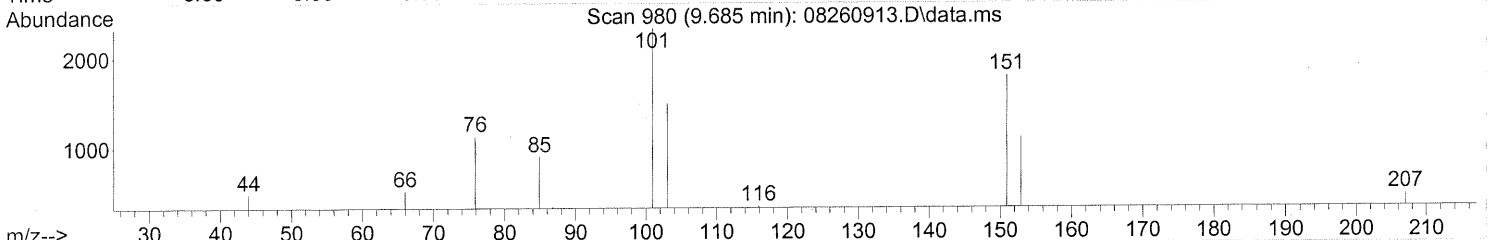
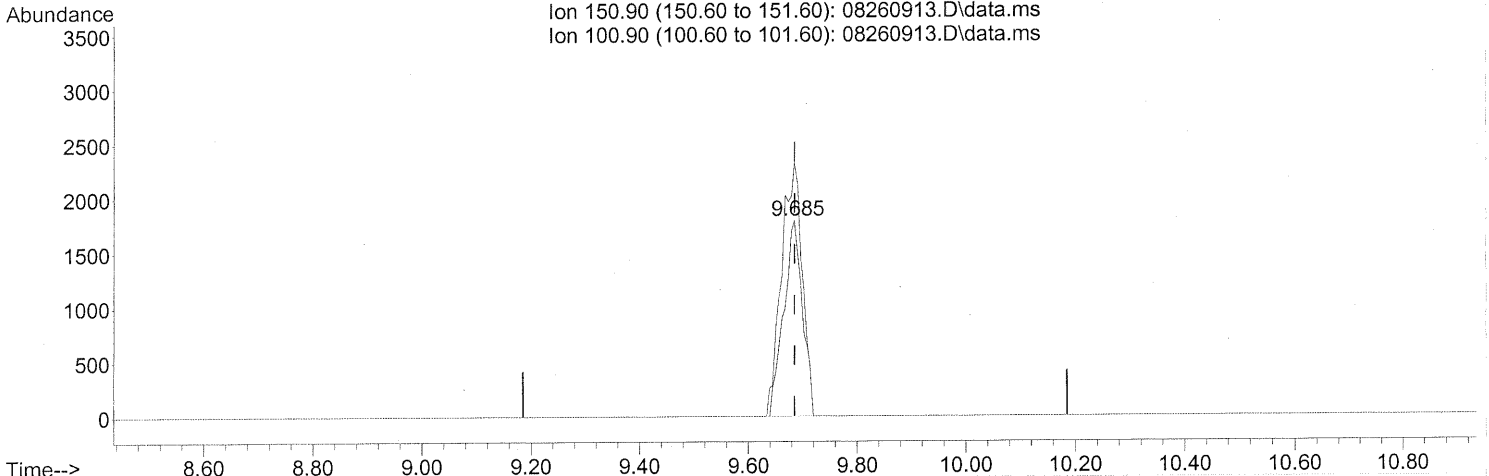
TIC: 08260913.D\data.ms

(15) 2-Propanol (Isopropanol) (T)			
8.314min	(-0.120)	0.59ng	
response	25202		
Ion	Exp%	Act%	
45.10	100	100	
43.00	19.00	23.35	
0.00	0.00	0.00	
0.00	0.00	0.00	

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 27 06:21:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.685min (-0.000) 0.44ng

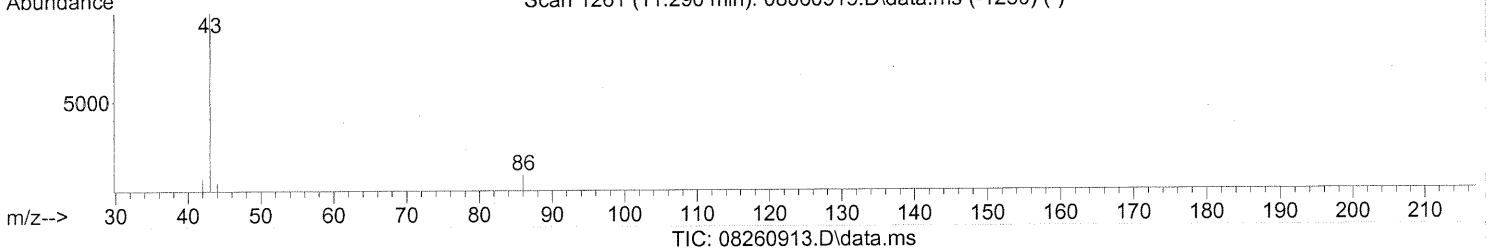
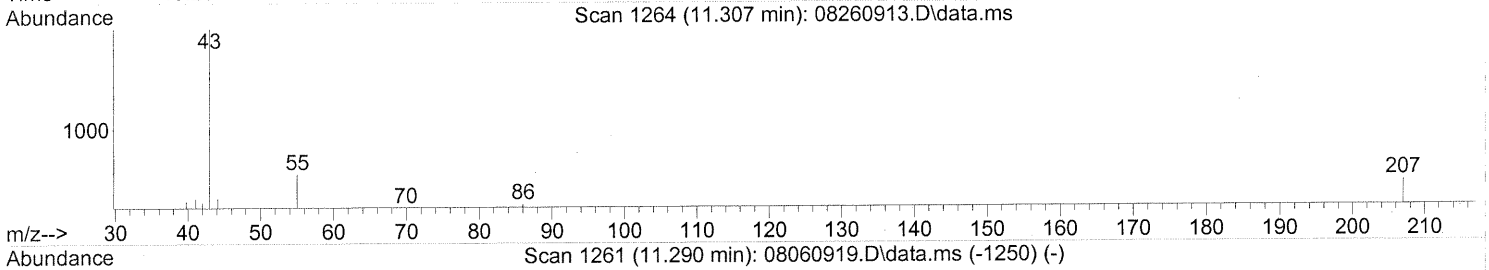
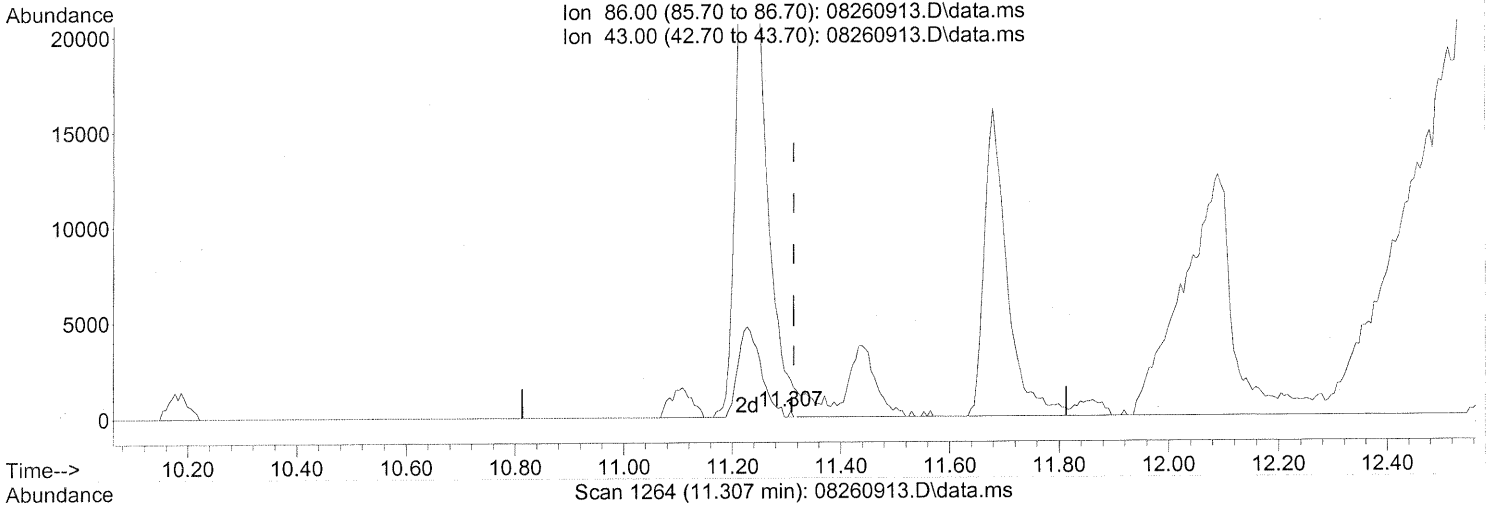
response 4294

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	143.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



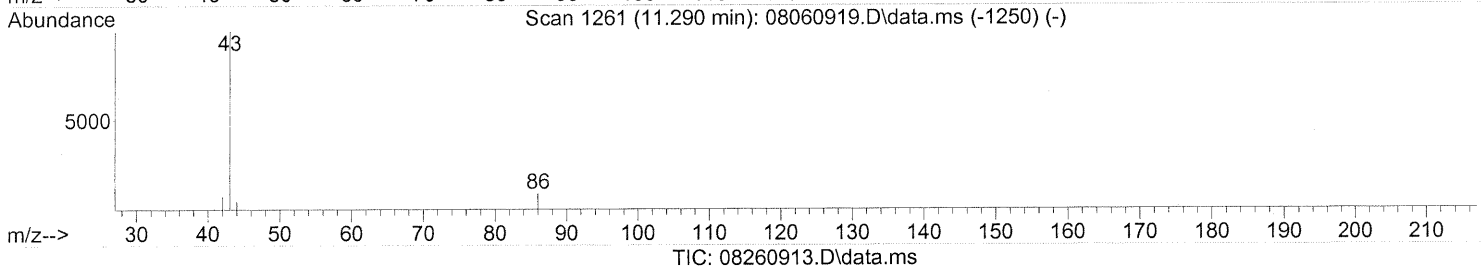
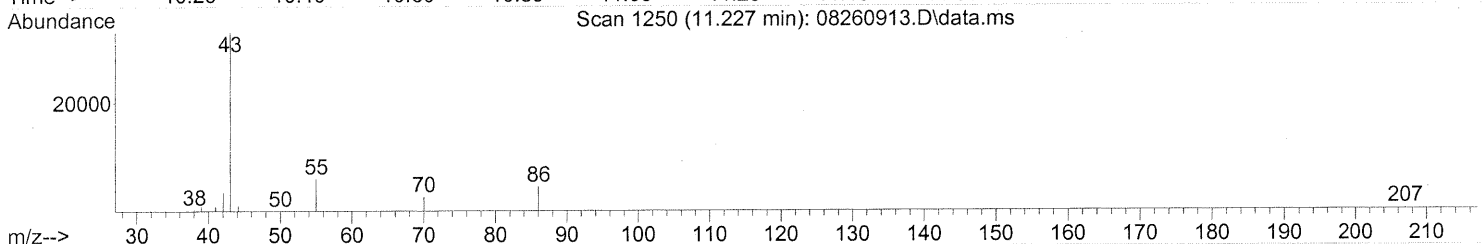
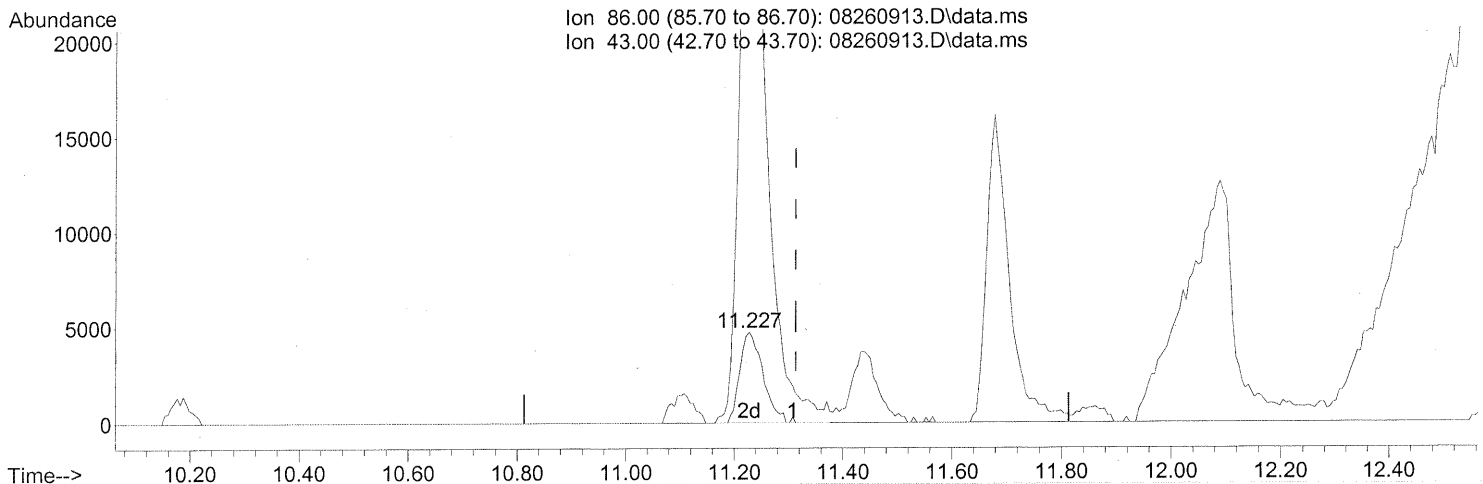
(26) Vinyl Acetate (T)
 11.307min (-0.006) 0.05ng
 response 102
 lon Exp% Act%
 86.00 100 100
 43.00 1210.70 0.00#
 0.00 0.00 0.00
 0.00 0.00 0.00

BMI

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.227min (-0.086) 6.35ng m

response 13989

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

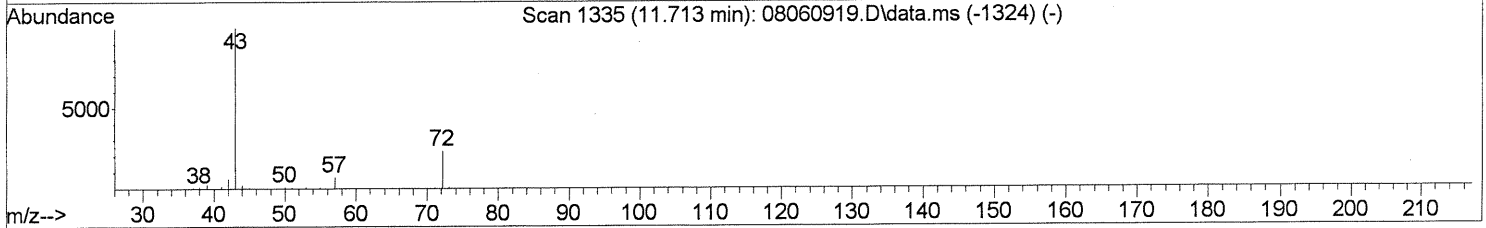
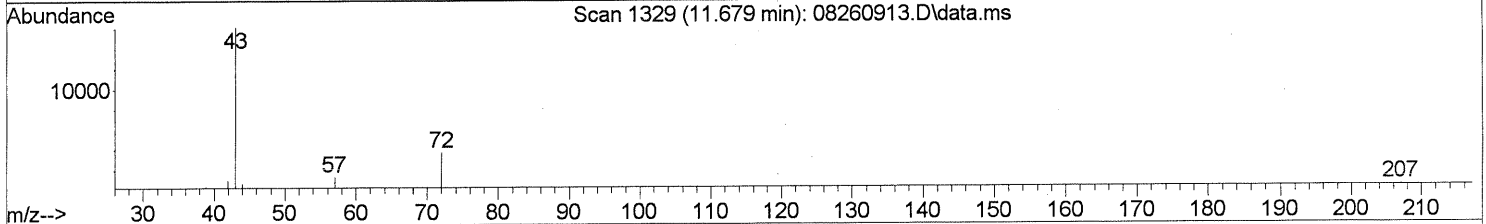
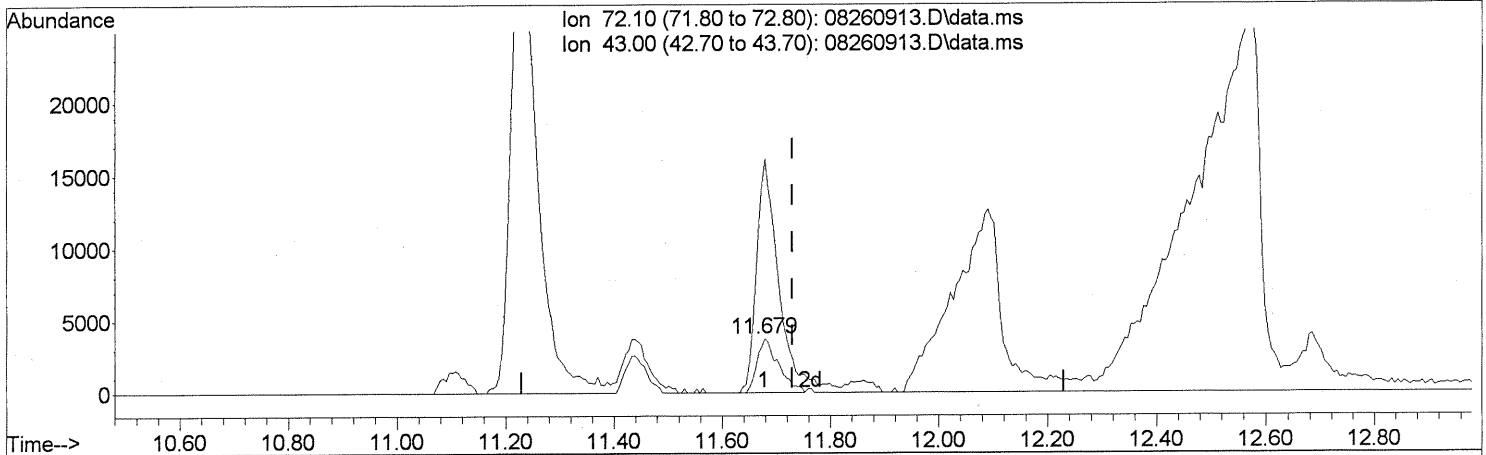
BMI-51C
17911109

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 18:47
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 11:04:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260913.D\data.ms

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

11.679min (-0.051) 1.05ng

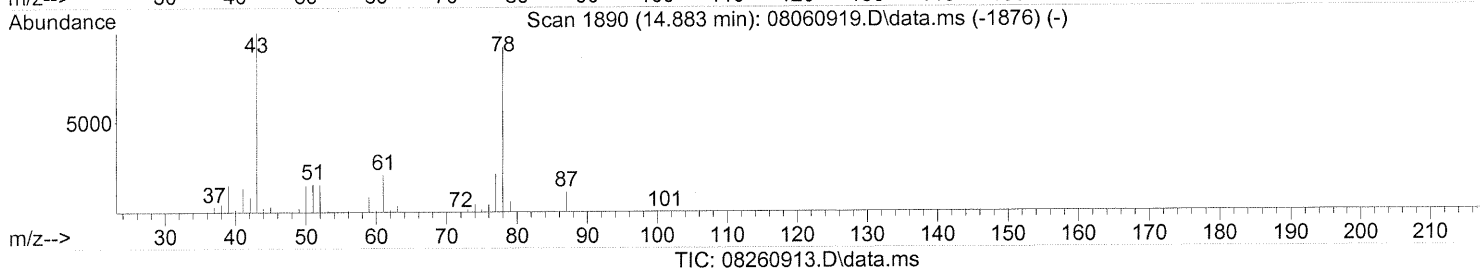
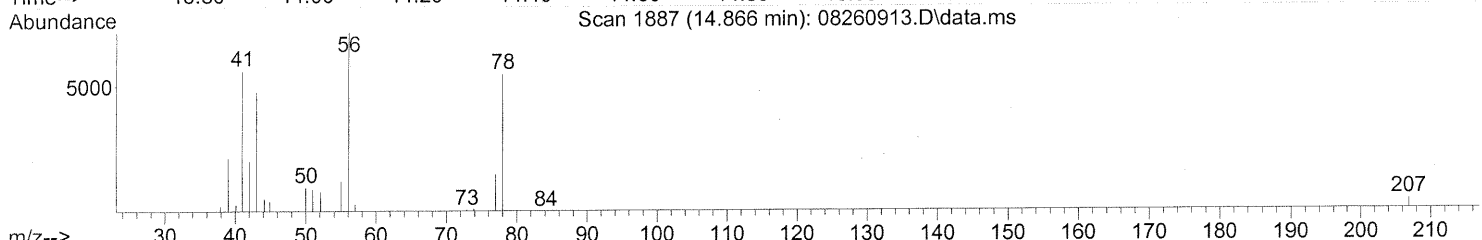
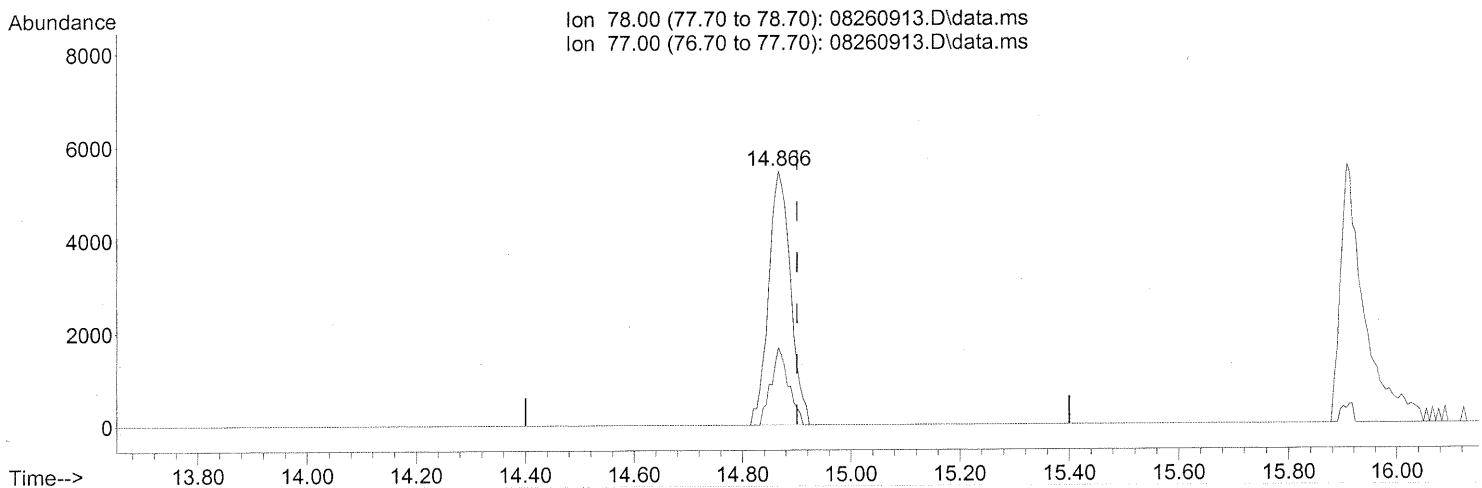
response 10226

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	456.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.866min (-0.034) 0.26ng

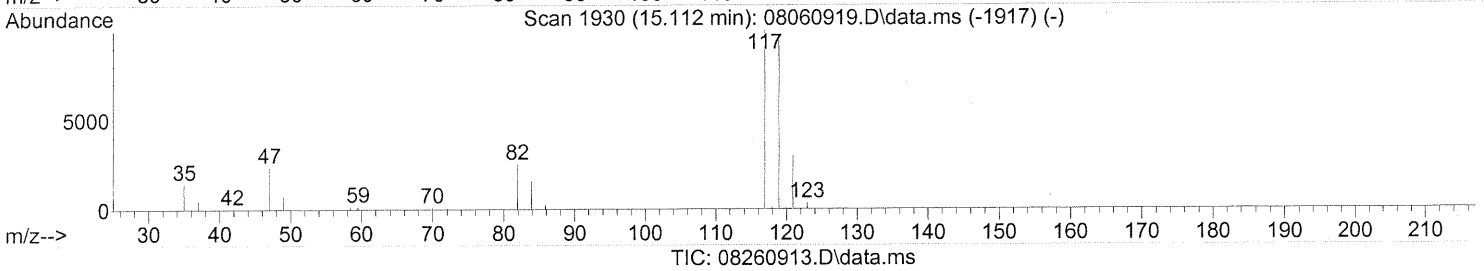
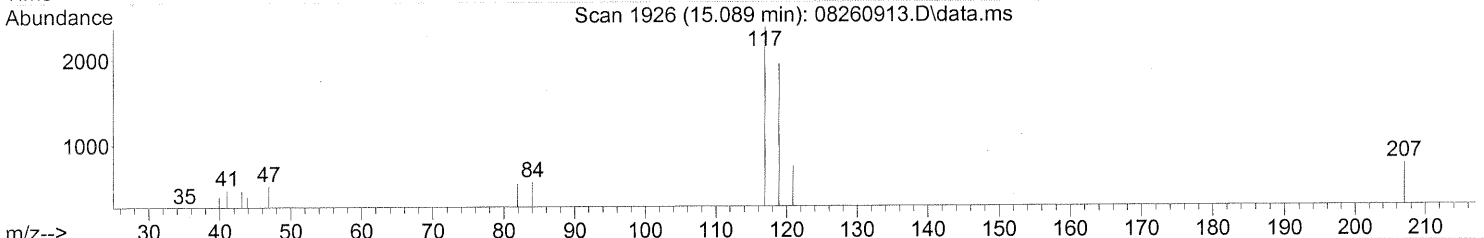
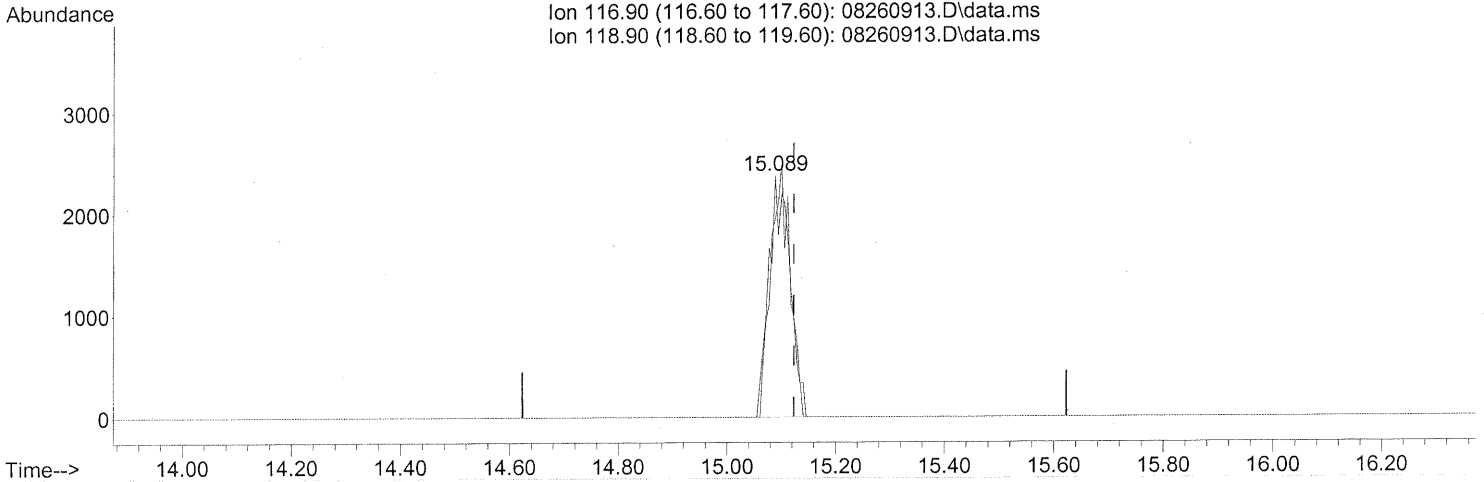
response 15374

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	24.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.089min (-0.034) 0.34ng

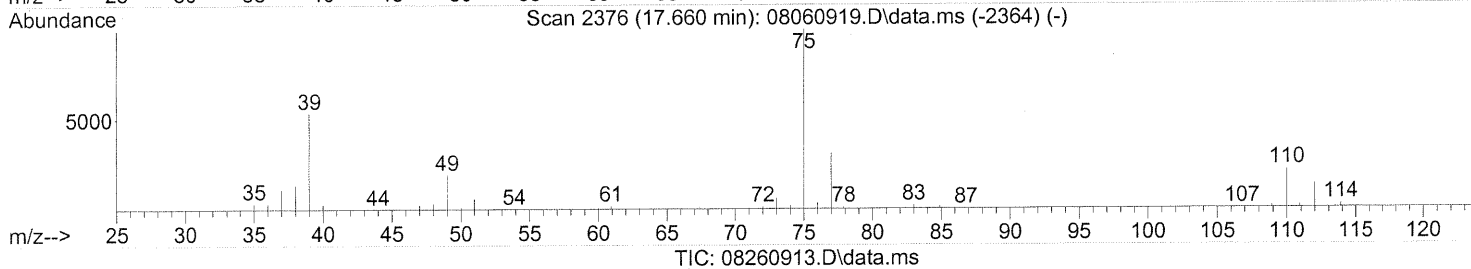
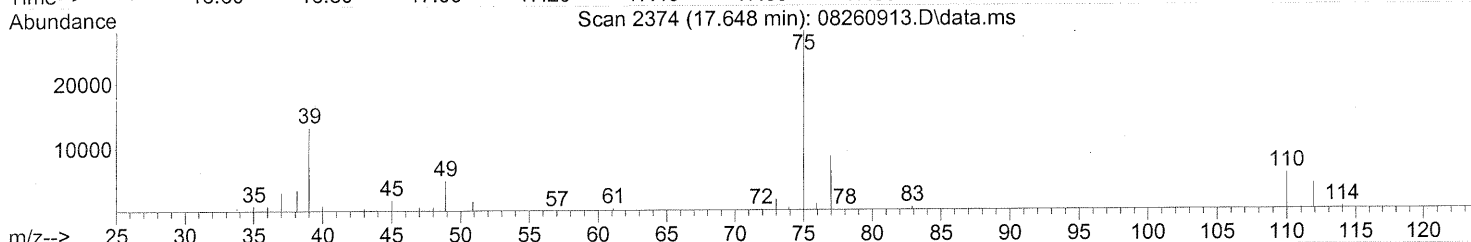
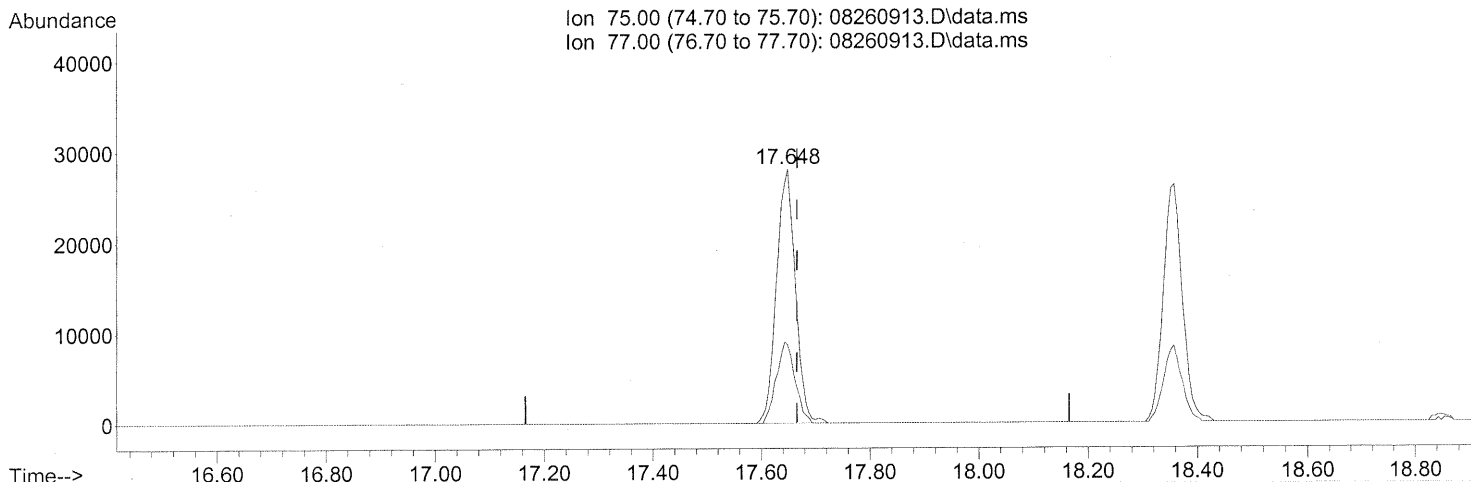
response 6448

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	95.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 2.74ng

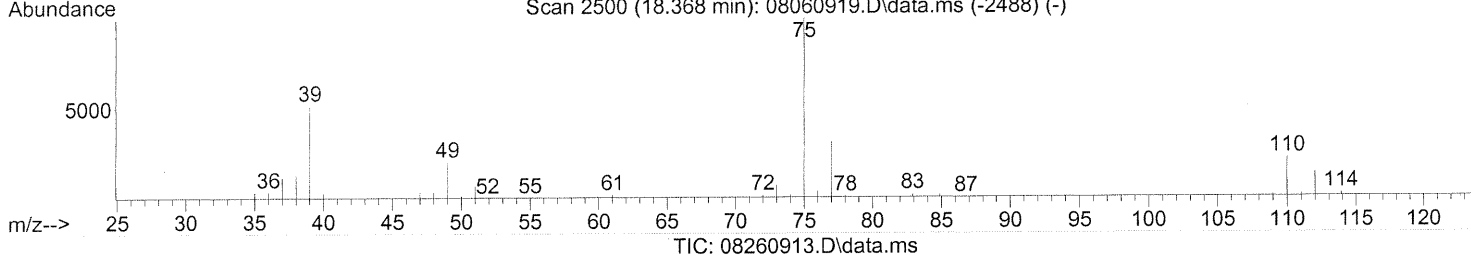
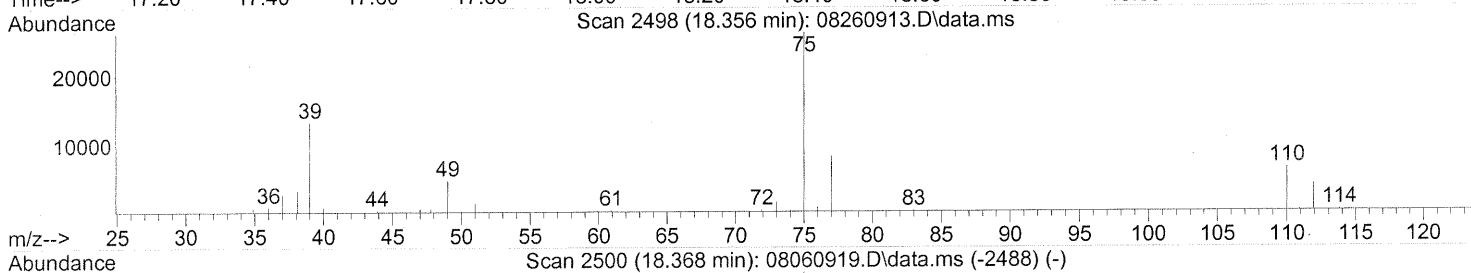
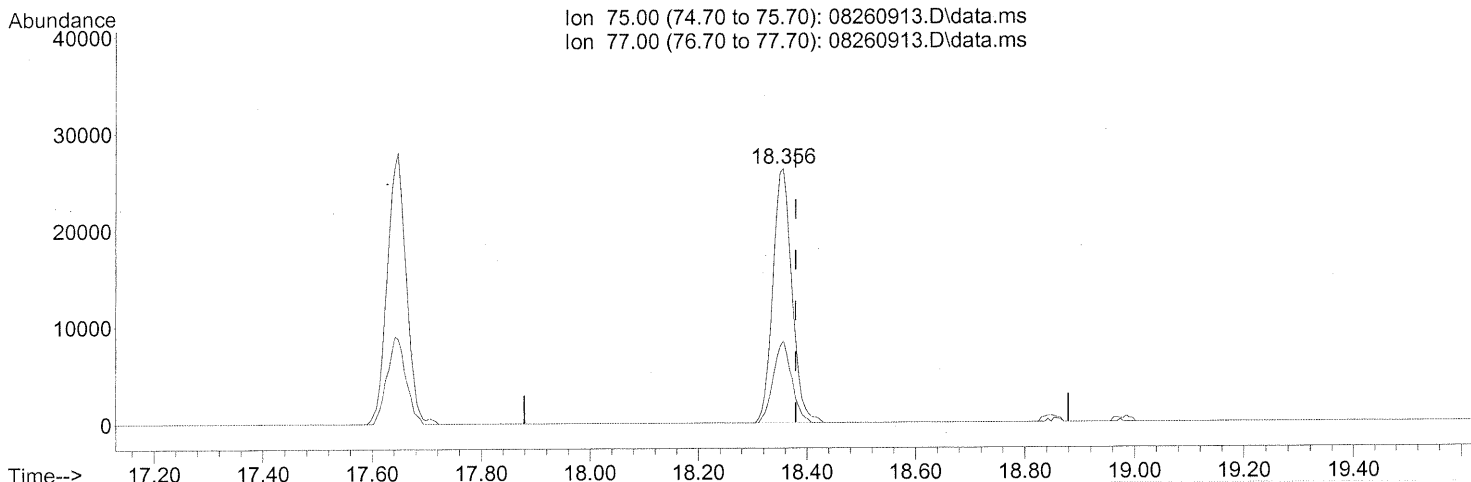
response 67176

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 2.73ng

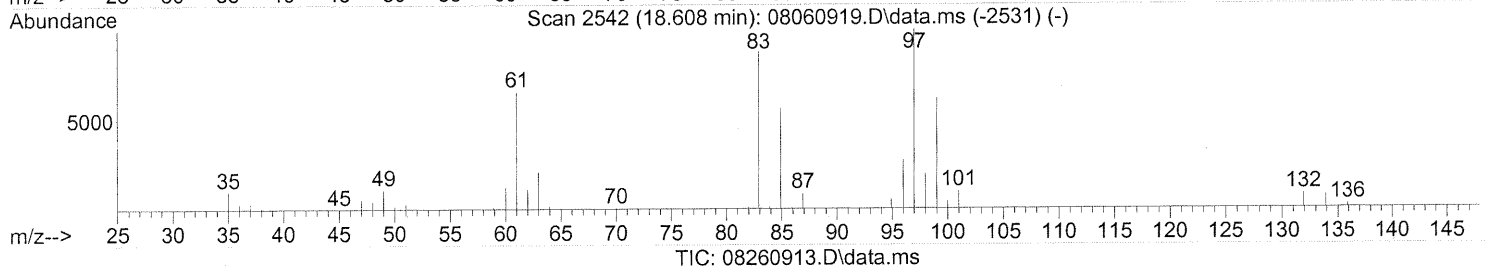
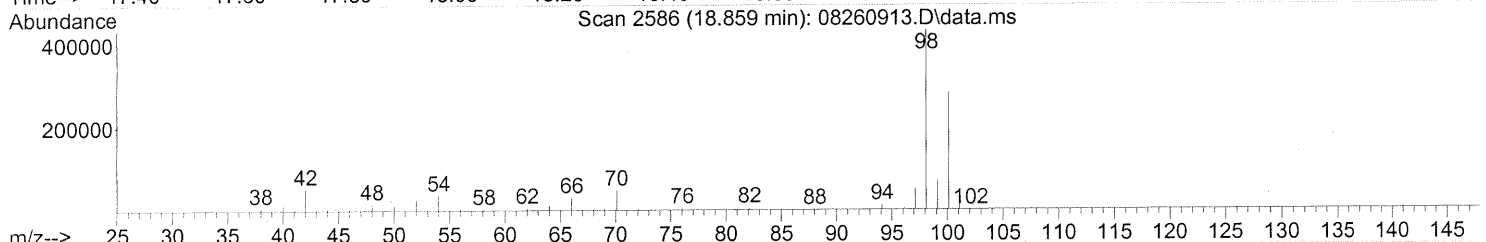
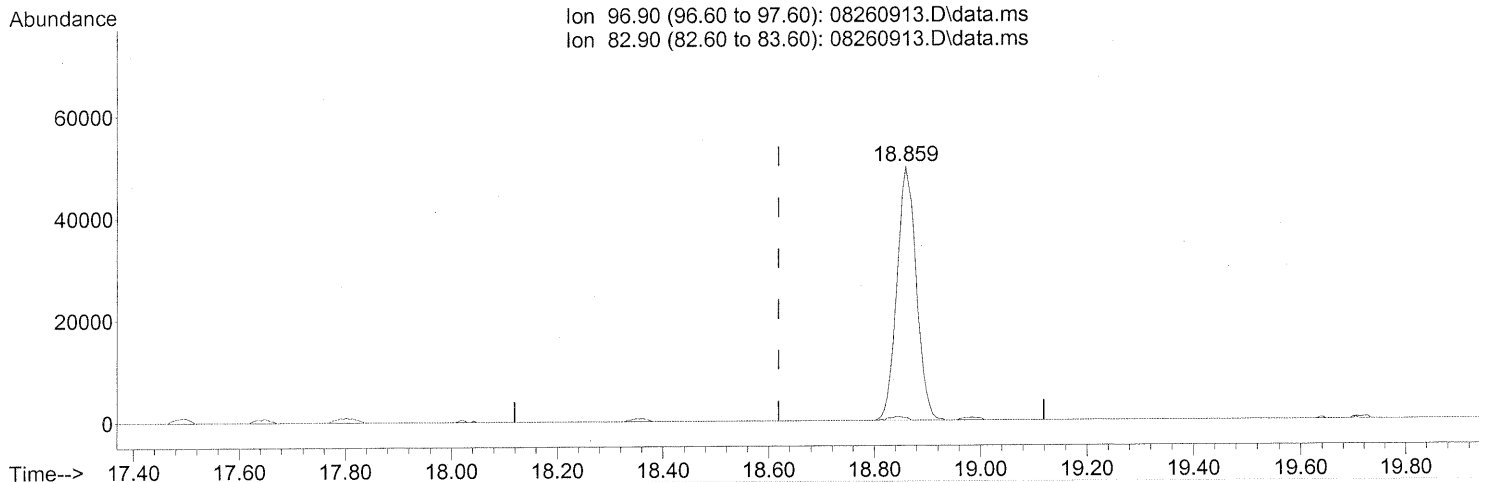
response 63637

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	30.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

18.859min (+0.240) 9.79ng

response 126681

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.18#
0.00	0.00	0.00
0.00	0.00	0.00

EP

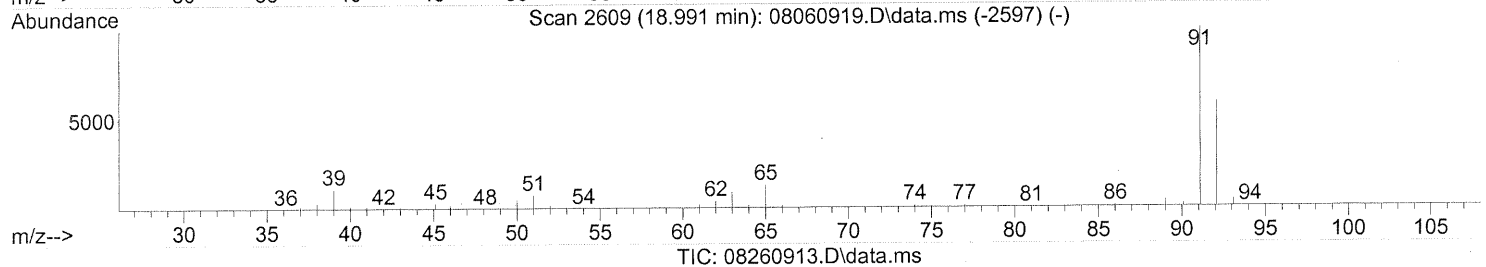
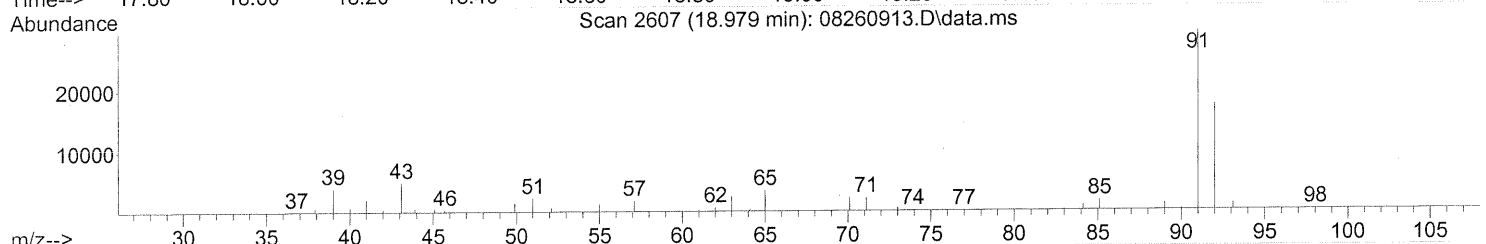
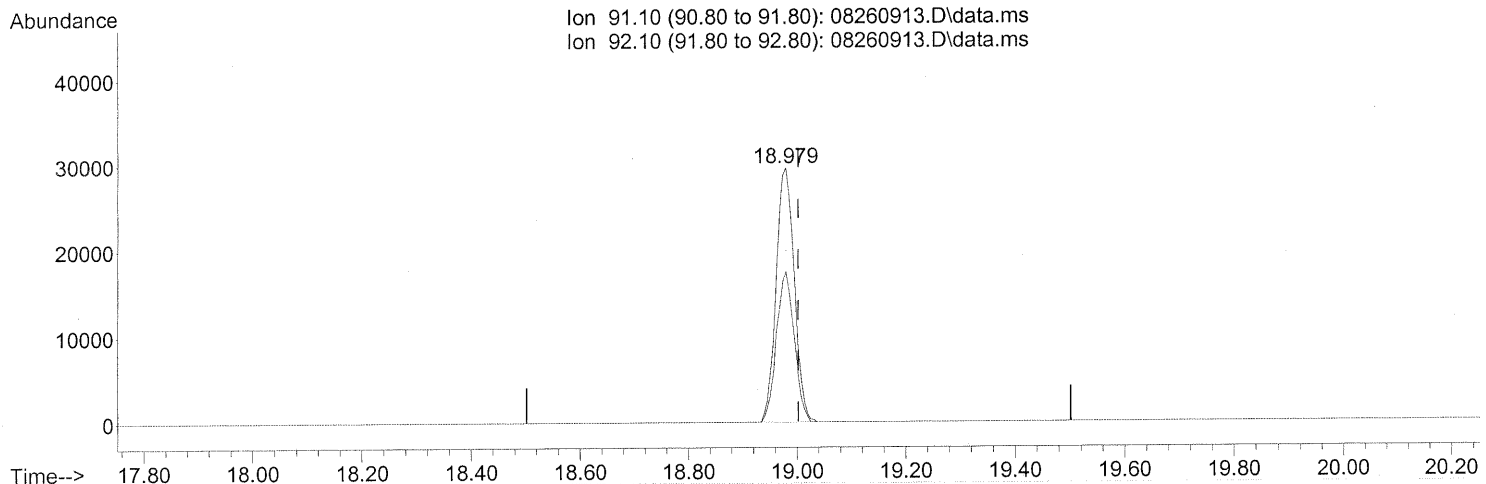
WA 9/11/09

—R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.979min (-0.023) 1.24ng

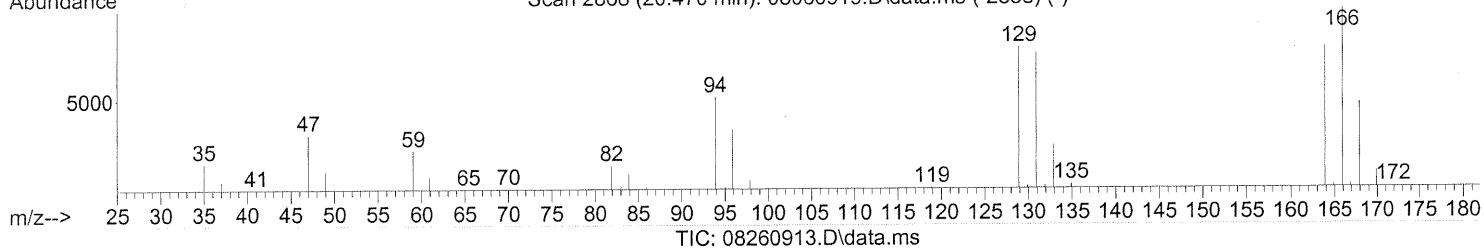
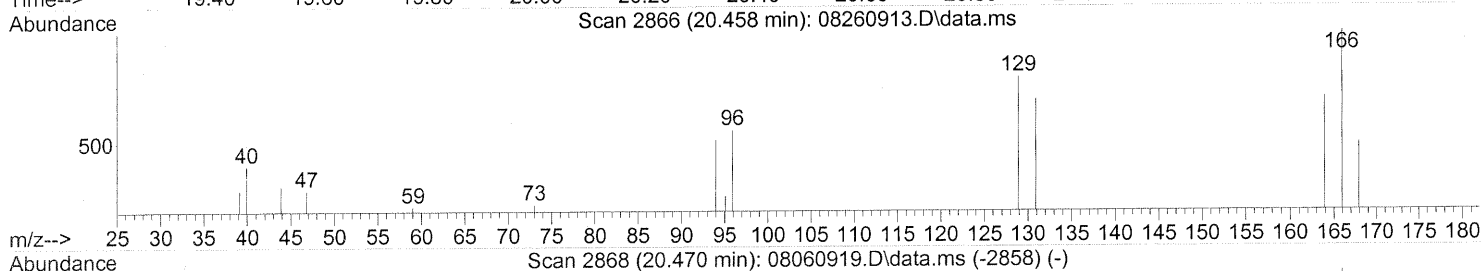
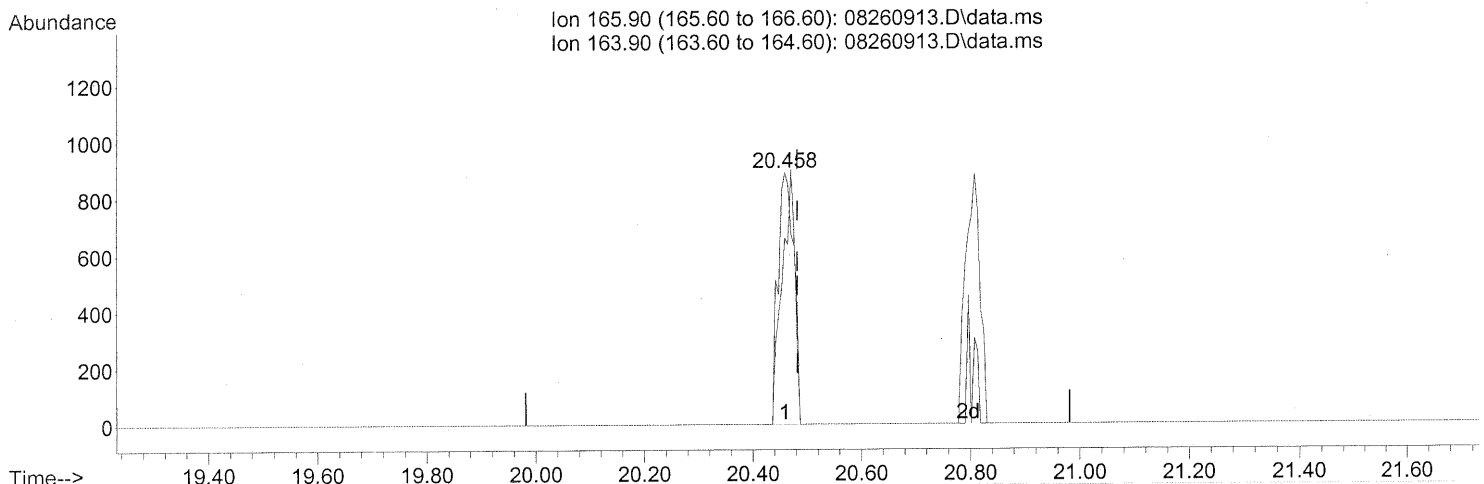
response 68425

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	57.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.458min (-0.023) 0.14ng

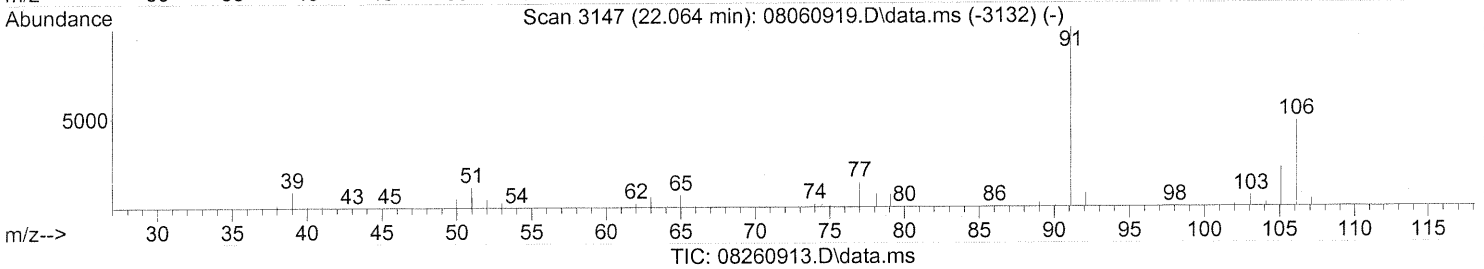
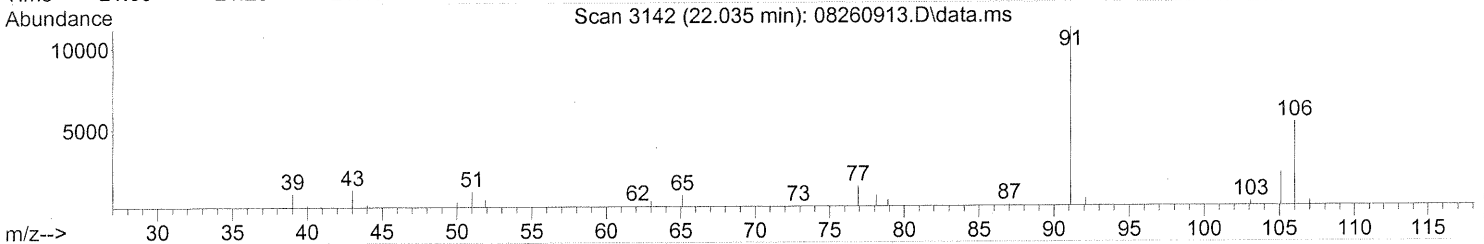
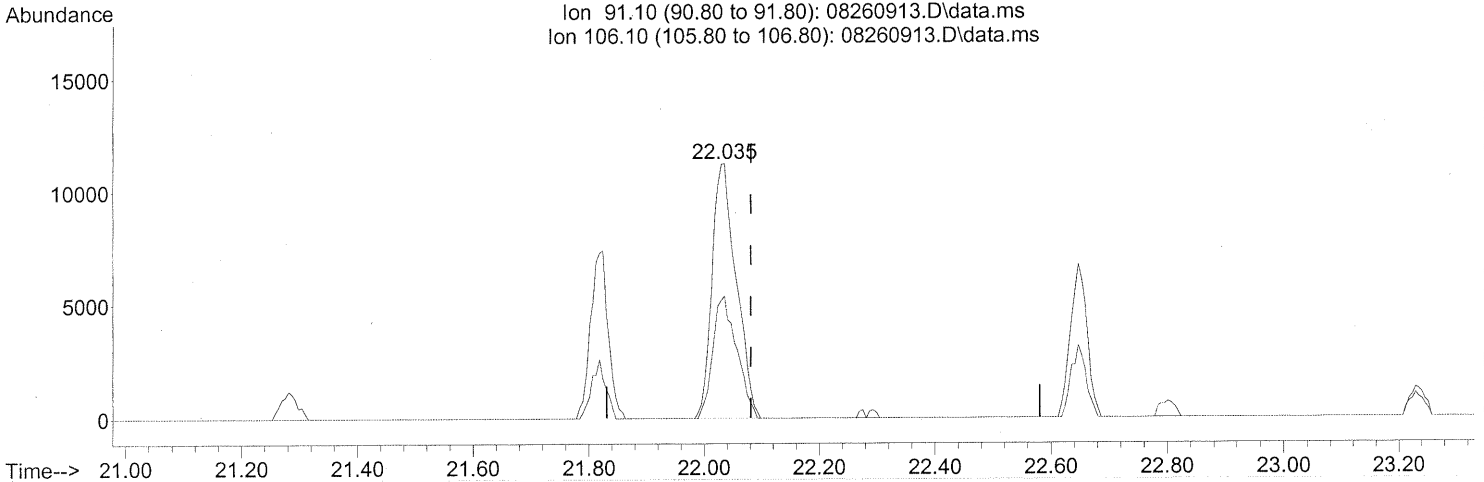
response 1794

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	81.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

22.035min (-0.046) 0.64ng

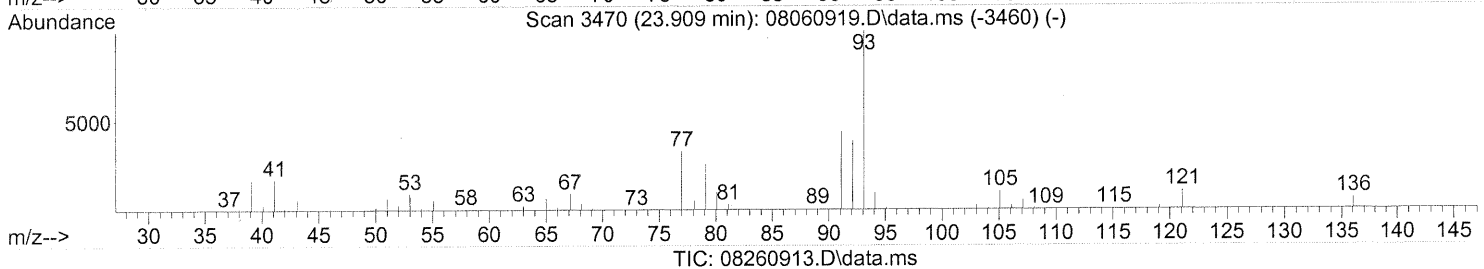
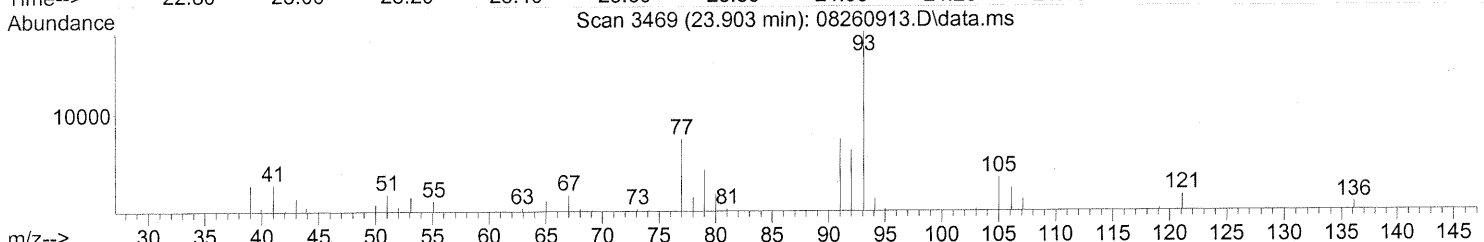
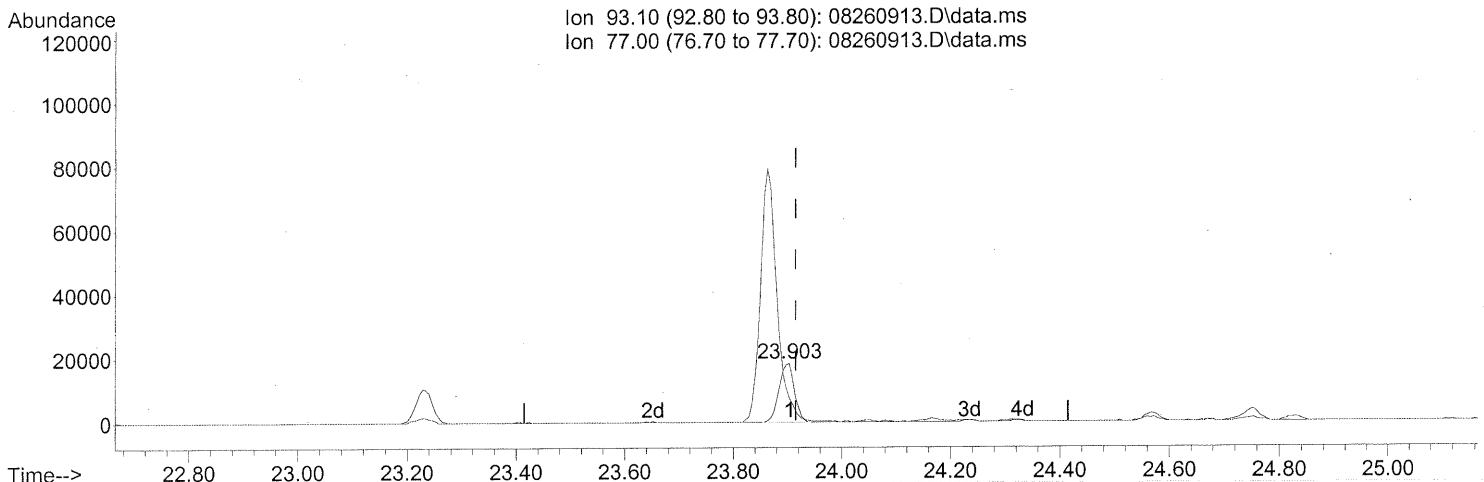
response 32654

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(75) alpha-Pinene (T)

23.903min (-0.011) 1.07ng

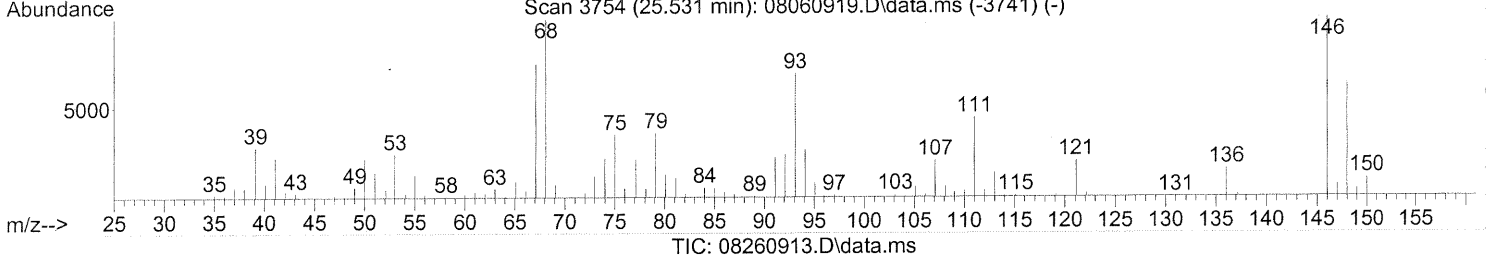
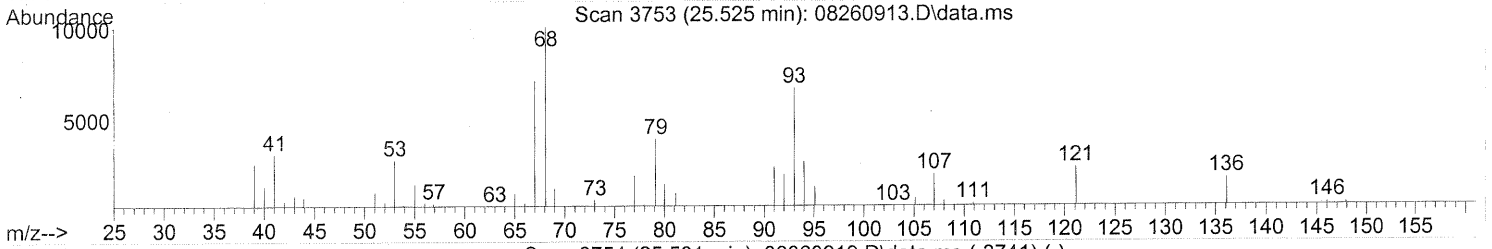
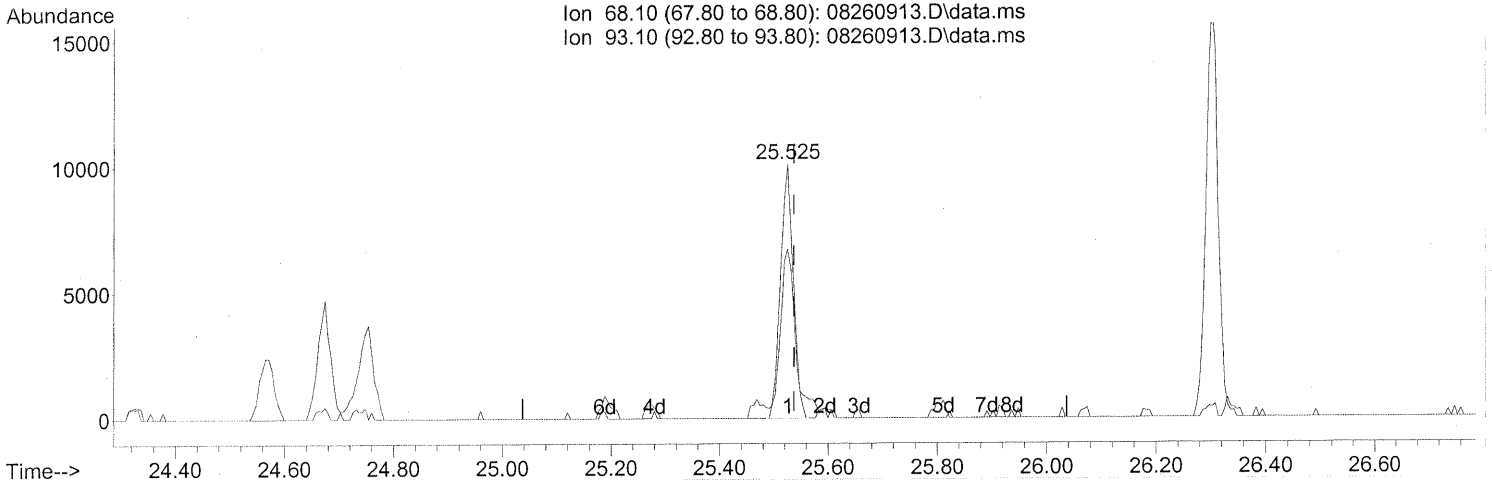
response 35375

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260913.D
 Acq On : 26 Aug 2009 6:47 pm
 Operator : WA/CC
 Sample : P0902876-008 (1000mL)
 Misc : Environmental Health 102472
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 01 10:51:07 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(91) d-Limonene (T)
 25.525min (-0.011) 0.75ng
 response 16477

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	81.90
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: 102473
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00958

CAS Project ID: P0902876
 CAS Sample ID: P0902876-009

Date Collected: 8/19/09
 Date Received: 8/20/09
 Date Analyzed: 8/27/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	ND	0.77	ND	0.45	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.77	0.50	0.16	
74-87-3	Chloromethane	1.0	0.15	0.49	0.075	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.77	ND	0.11	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.060	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.070	
74-83-9	Bromomethane	0.15	0.15	0.040	0.040	
75-00-3	Chloroethane	ND	0.15	ND	0.058	
64-17-5	Ethanol	110	7.7	56	4.1	
75-05-8	Acetonitrile	170	0.77	100	0.46	E
107-02-8	Acrolein	5.5	0.77	2.4	0.34	
67-64-1	Acetone	130	7.7	54	3.2	
75-69-4	Trichlorofluoromethane	1.2	0.15	0.22	0.027	
67-63-0	2-Propanol (Isopropyl Alcohol)	9.0	0.77	3.7	0.31	
107-13-1	Acrylonitrile	ND	0.77	ND	0.35	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.039	
75-09-2	Methylene Chloride	ND	0.77	ND	0.22	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.049	
76-13-1	Trichlorotrifluoroethane	0.58	0.15	0.076	0.020	
75-15-0	Carbon Disulfide	8.0	0.77	2.6	0.25	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.039	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.038	
1634-04-4	Methyl tert-Butyl Ether	0.49	0.15	0.13	0.043	
108-05-4	Vinyl Acetate	ND	7.7	ND	2.2	
78-93-3	2-Butanone (MEK)	5.3	0.77	1.8	0.26	

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: _____

9/8/09

380

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102473
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00958

CAS Project ID: P0902876
CAS Sample ID: P0902876-009

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/27/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	ND	0.039	
141-78-6	Ethyl Acetate	1.1	0.77	0.29	0.21	
110-54-3	n-Hexane	9.4	0.77	2.7	0.22	
67-66-3	Chloroform	0.17	0.15	0.036	0.032	
109-99-9	Tetrahydrofuran (THF)	0.80	0.77	0.27	0.26	
107-06-2	1,2-Dichloroethane	2.7	0.15	0.66	0.038	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.028	
71-43-2	Benzene	2.0	0.15	0.63	0.048	
56-23-5	Carbon Tetrachloride	0.51	0.15	0.081	0.024	
110-82-7	Cyclohexane	1.6	0.77	0.46	0.22	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.033	
75-27-4	Bromodichloromethane	ND	0.15	ND	0.023	
79-01-6	Trichloroethene	ND	0.15	ND	0.029	
123-91-1	1,4-Dioxane	ND	0.77	ND	0.21	
80-62-6	Methyl Methacrylate	ND	0.77	ND	0.19	
142-82-5	n-Heptane	2.7	0.77	0.65	0.19	
10061-01-5	cis-1,3-Dichloropropene	1.9	0.77	0.42	0.17	
108-10-1	4-Methyl-2-pentanone	ND	0.77	ND	0.19	
10061-02-6	trans-1,3-Dichloropropene	1.5	0.77	0.34	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.028	
108-88-3	Toluene	17	0.77	4.5	0.20	
591-78-6	2-Hexanone	1.2	0.77	0.28	0.19	
124-48-1	Dibromochloromethane	ND	0.15	ND	0.018	
106-93-4	1,2-Dibromoethane	ND	0.15	ND	0.020	
123-86-4	n-Butyl Acetate	2.4	0.77	0.51	0.16	

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: _____

9/6/09

381

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102473
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00958

CAS Project ID: P0902876
CAS Sample ID: P0902876-009

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/27/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.6	0.77	0.34	0.16	
127-18-4	Tetrachloroethene	0.31	0.15	0.046	0.023	
108-90-7	Chlorobenzene	ND	0.15	ND	0.033	
100-41-4	Ethylbenzene	3.5	0.77	0.80	0.18	
179601-23-1	m,p-Xylenes	6.5	0.77	1.5	0.18	
75-25-2	Bromoform	ND	0.77	ND	0.075	
100-42-5	Styrene	4.7	0.77	1.1	0.18	
95-47-6	o-Xylene	3.3	0.77	0.75	0.18	
111-84-2	n-Nonane	1.0	0.77	0.20	0.15	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.022	
98-82-8	Cumene	ND	0.77	ND	0.16	
80-56-8	alpha-Pinene	77	0.77	14	0.14	
103-65-1	n-Propylbenzene	0.96	0.77	0.20	0.16	
622-96-8	4-Ethyltoluene	1.3	0.77	0.26	0.16	
108-67-8	1,3,5-Trimethylbenzene	1.4	0.77	0.29	0.16	
95-63-6	1,2,4-Trimethylbenzene	4.7	0.77	0.97	0.16	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.026	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.026	
95-50-1	1,2-Dichlorobenzene	0.26	0.15	0.043	0.026	
5989-27-5	d-Limonene	15	0.77	2.6	0.14	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	ND	0.080	
120-82-1	1,2,4-Trichlorobenzene	ND	0.77	ND	0.10	
91-20-3	Naphthalene	2.1	0.77	0.40	0.15	
87-68-3	Hexachlorobutadiene	ND	0.77	ND	0.072	

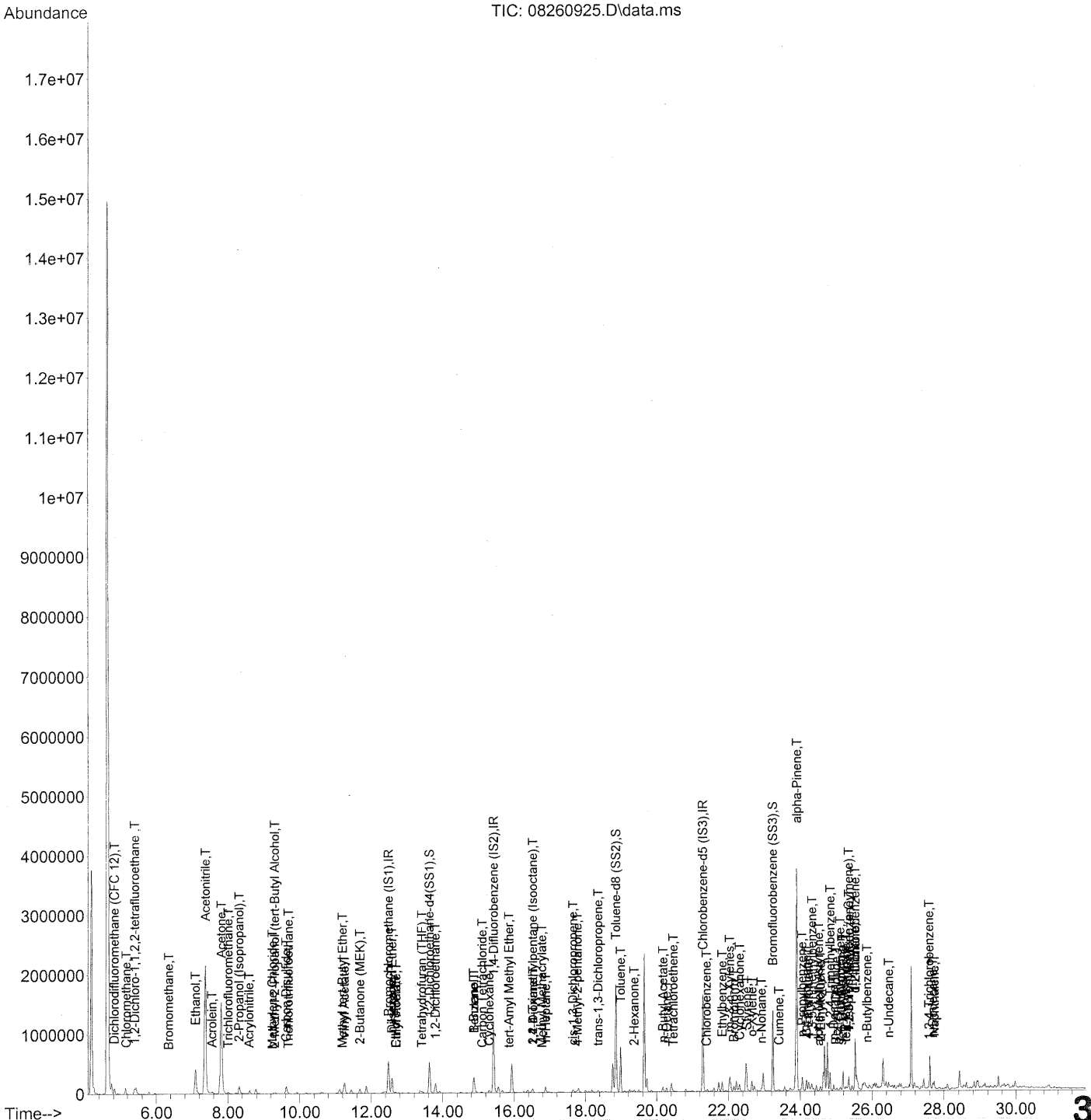
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By:  Date: 9/8/09 **382**

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39 am
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 17:06:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39 am
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 17:06:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

LM 9/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	282561	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1401481	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	684112	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	546854	22.267	ng	-0.03	
Spiked Amount	25.000			Recovery =	89.08%		✓
57) Toluene-d8 (SS2)	18.85	98	1539481	25.754	ng	-0.02	
Spiked Amount	25.000			Recovery =	103.00%		✓
73) Bromofluorobenzene (SS3)	23.23	174	440191	27.924	ng	-0.01	
Spiked Amount	25.000			Recovery =	111.68%		✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.82	85	50686	1.599	ng	99
4) Chloromethane	5.16	50	13873	0.652	ng	91
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	742	0.058	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	87	N.D.		
8) Bromomethane	6.35	94	1244	0.100	ng	98
9) Chloroethane	6.70	64	88	N.D.		
10) Ethanol	7.10	45	839943	68.340	ng	E 100
11) Acetonitrile	7.37	41	4088994	113.600	ng	Sec 99
12) Acrolein	7.55	56	33695	3.602	ng	95
13) Acetone	7.81	58	966519	83.344	ng	98
14) Trichlorofluoromethane	8.01	101	22721	0.793	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	265586	5.828	ng	97
16) Acrylonitrile	8.59	53	2655	0.127	ng	# 34
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	11602	0.287	ng	# 1
19) Methylene Chloride	9.24	84	1781	0.114	ng	87
20) 3-Chloro-1-propene (Al...	9.40	41	88	N.D.		
21) Trichlorotrifluoroethane	9.68	151	3921	0.376	ng	98
22) Carbon Disulfide	9.62	76	284227	5.176	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	11.19	73	13836	0.315	ng	# 90
26) Vinyl Acetate	11.24	86	16830	7.131	ng	# 78
27) 2-Butanone (MEK)	11.68	72	36209	3.458	ng	# 84
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.58	87	1551	0.111	ng	# 1
30) Ethyl Acetate	12.70	61	3737	0.685	ng	87
31) n-Hexane	12.58	57	170660	6.116	ng	93

LM 9/2/09

384

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39 am
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 17:06:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	2784	0.113 ng		92
34) Tetrahydrofuran (THF)	13.41	72	5789	0.519 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	38883	1.732 ng		99
38) 1,1,1-Trichloroethane	14.17	97	119	N.D.		
39) Isopropyl Acetate	14.85	61	111	N.D.		
40) 1-Butanol	14.87	56	197897	10.880 ng	#	78
41) Benzene	14.87	78	80894	1.313 ng		99
42) Carbon Tetrachloride	15.10	117	6461	0.329 ng		96
43) Cyclohexane	15.29	84	23114	1.024 ng		98
44) tert-Amyl Methyl Ether	15.85	73	3282	0.071 ng	#	53
45) 1,2-Dichloropropane	15.93	63	126	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.45	130	193	N.D.		
48) 1,4-Dioxane	16.53	88	1317	0.112 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	59155	0.815 ng		83
50) Methyl Methacrylate	16.77	100	411	0.072 ng	#	1
51) n-Heptane	16.88	71	28812	1.742 ng		98
52) cis-1,3-Dichloropropene	17.65	75	31661	1.234 ng		99
53) 4-Methyl-2-pentanone	17.77	58	6798	0.459 ng		99
54) trans-1,3-Dichloropropene	18.36	75	24394	1.000 ng		96
55) 1,1,2-Trichloroethane	18.57	97	554	N.D.		
58) Toluene	18.98	91	648322	11.036 ng		99
59) 2-Hexanone	19.36	43	29430	0.753 ng		100
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	71743	1.558 ng		93
63) n-Octane	20.27	57	14431	1.016 ng		99
64) Tetrachloroethene	20.46	166	2757	0.203 ng		89
65) Chlorobenzene	21.38	112	1827	0.050 ng	#	43
66) Ethylbenzene	21.82	91	150899	2.247 ng		99
67) m- & p-Xylenes	22.03	91	230239	4.238 ng		98
68) Bromoform	22.14	173	668	0.058 ng	#	52
69) Styrene	22.51	104	118897	3.028 ng		98
70) o-Xylene	22.65	91	115181	2.115 ng		98
71) n-Nonane	22.91	43	24175	0.668 ng		90
72) 1,1,2,2-Tetrachloroethane	22.63	83	487	N.D.		
74) Cumene	23.41	105	15231	0.221 ng		97
75) alpha-Pinene	23.90	93	1756739	49.812 ng		76
76) n-Propylbenzene	24.05	91	53878	0.623 ng	#	76
77) 3-Ethyltoluene	24.17	105	121136	1.842 ng		99
78) 4-Ethyltoluene	24.22	105	51976	0.816 ng		98
79) 1,3,5-Trimethylbenzene	24.32	105	50518	0.940 ng		98

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39 am
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 17:06:46 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

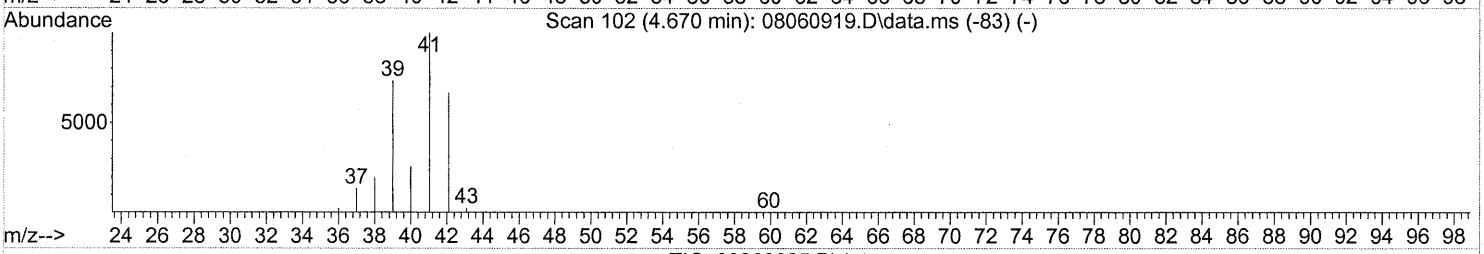
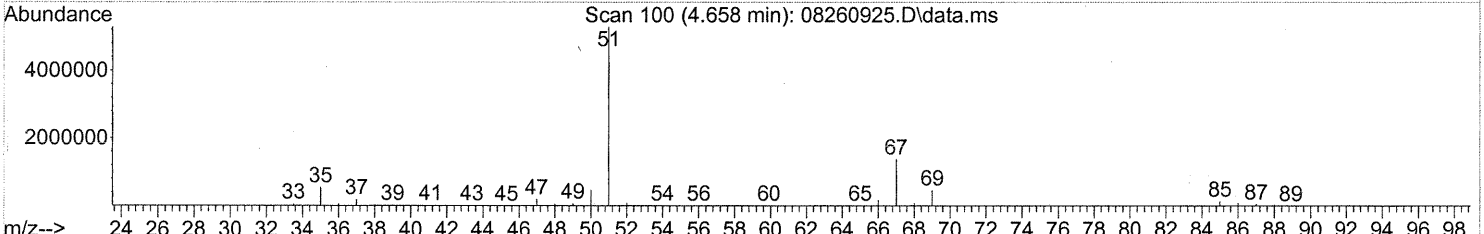
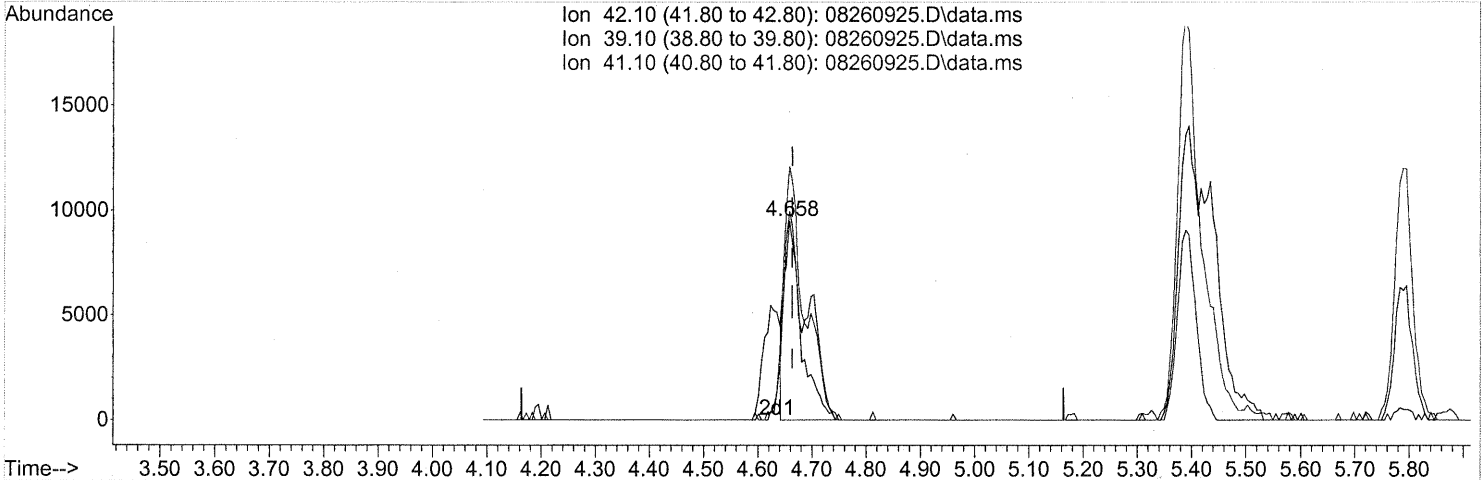
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1607	0.056	ng	88
81) 2-Ethyltoluene	24.56	105	46752	0.705	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	168774	3.080	ng	88
83) n-Decane	24.93	57	40708	1.143	ng	89
84) Benzyl Chloride	24.99	91	3515	0.068	ng	86
85) 1,3-Dichlorobenzene	25.02	146	811	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	2482	0.084	ng	99
87) sec-Butylbenzene	25.16	105	5623	0.076	ng	# 75
88) 4-Isopropyltoluene (p-...	25.35	119	81227	1.230	ng	# 98
89) 1,2,3-Trimethylbenzene	25.35	105	44851	0.803	ng	NOT NEEDED 90
90) 1,2-Dichlorobenzene	25.53	146	4360	0.166	ng	92
91) d-Limonene	25.53	68	222559	9.551	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	48676	1.284	ng	94
94) 1,2,4-Trichlorobenzene	27.59	180	1927	0.107	ng	# 92
95) Naphthalene	27.73	128	102430	1.376	ng	99
96) n-Dodecane	27.69	57	34816	0.791	ng	98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	65641	2.697	ng	95
99) tert-Butylbenzene	25.27	119	5747	0.108	ng	93
100) n-Butylbenzene	25.85	91	23751	0.389	ng	# 50

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 01 14:49:14 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(2) Propene (T)

4.658min (-0.006) 1.08ng

response 20944

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	144.85#
41.10	150.20	159.63
0.00	0.00	0.00

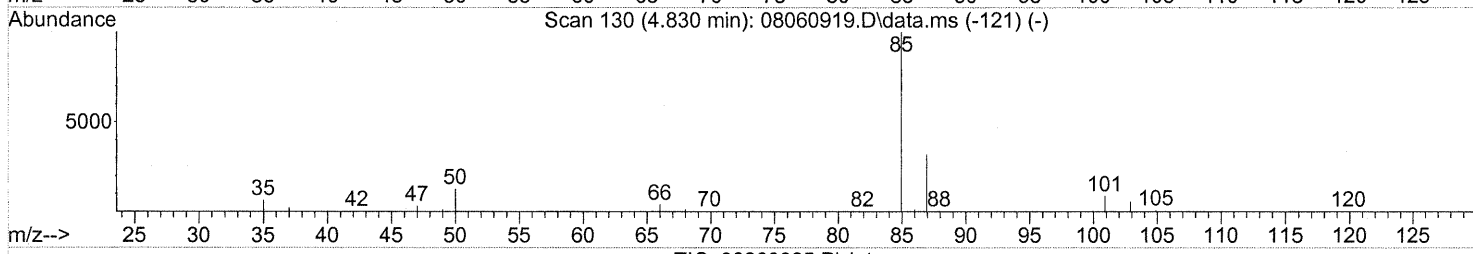
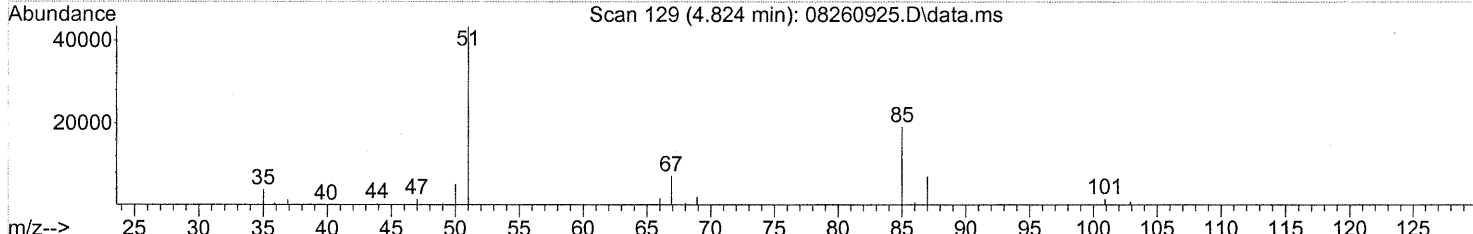
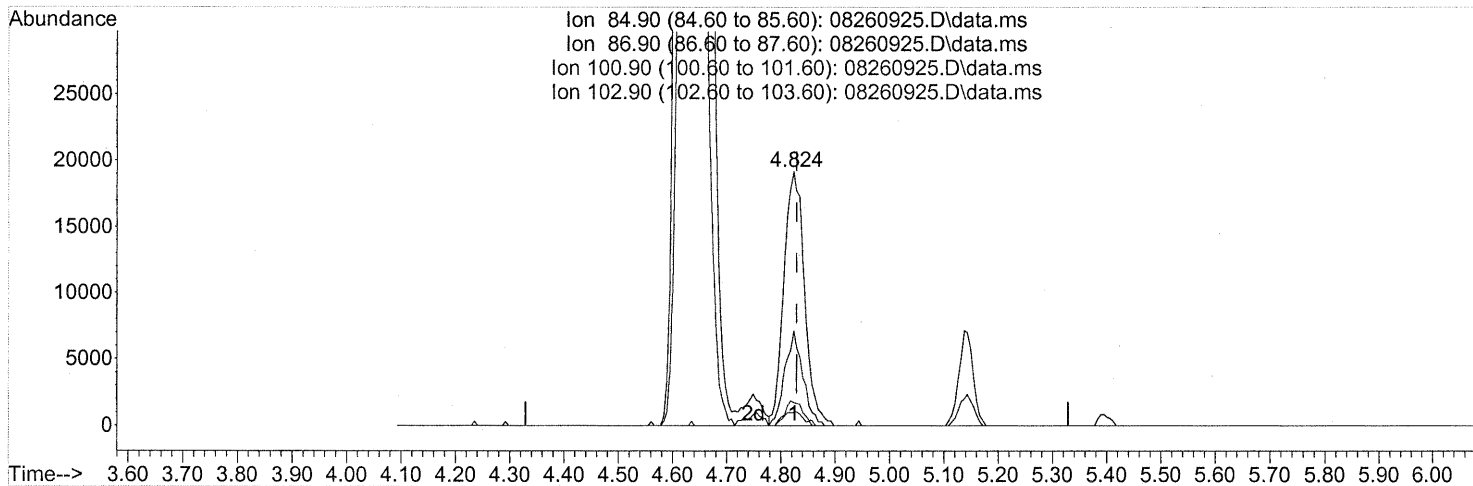
FP
WA 9/11/09

— E 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 1.60ng

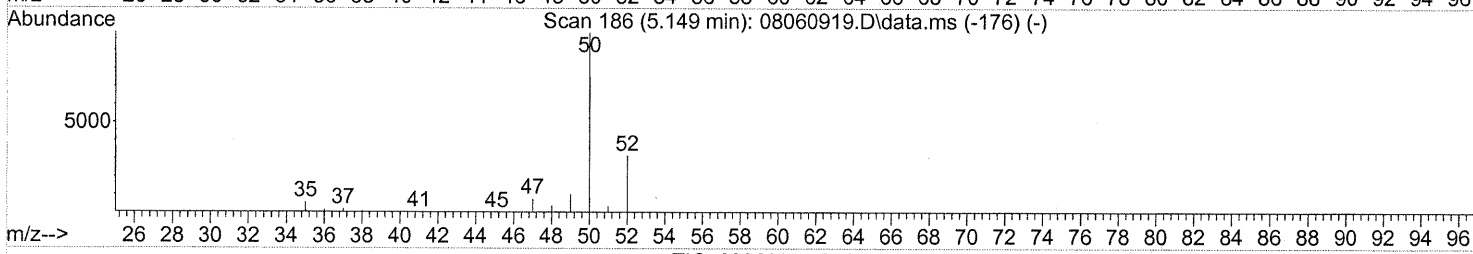
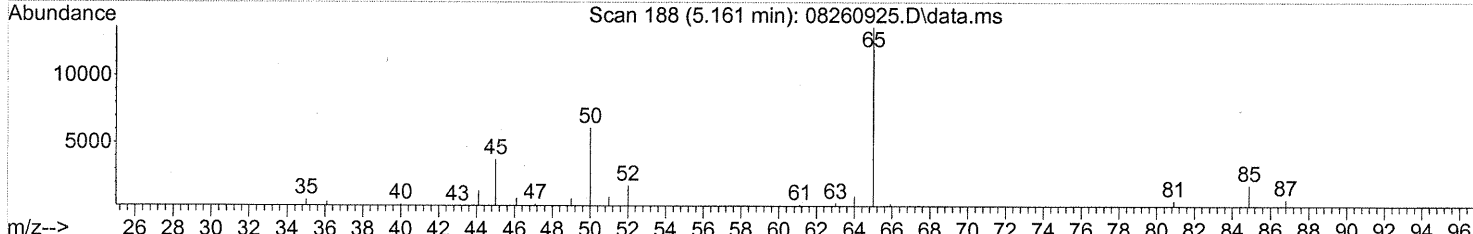
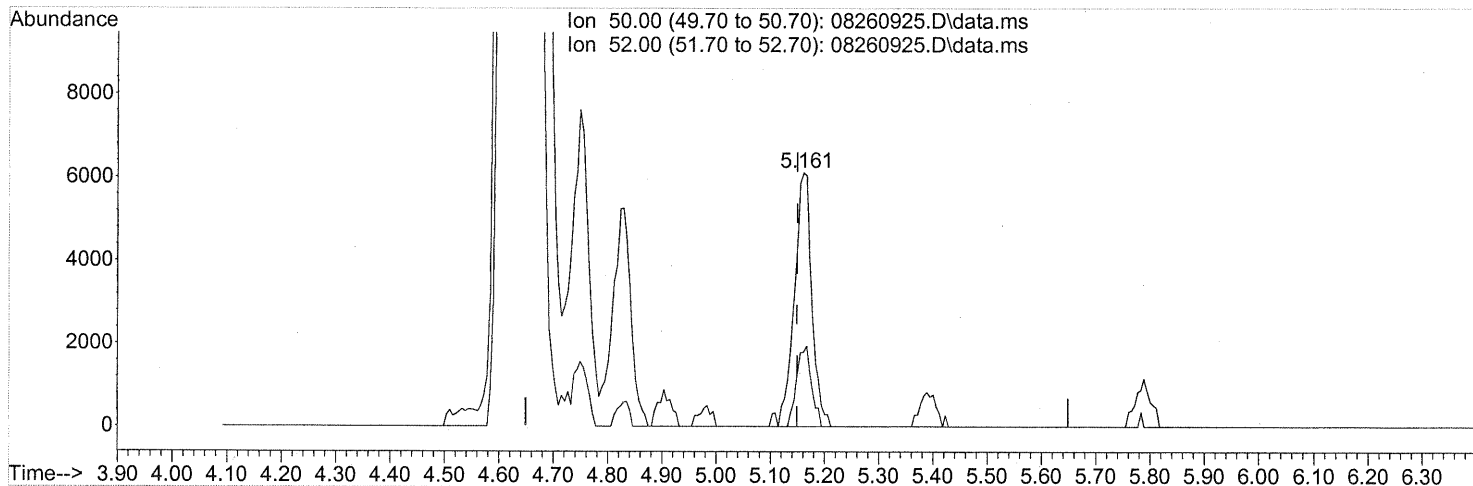
response 50686

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.45
100.90	8.80	8.48
102.90	5.20	4.99

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

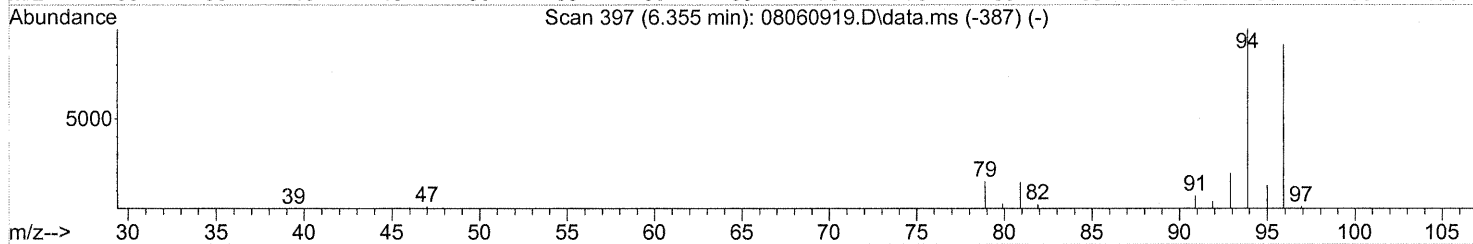
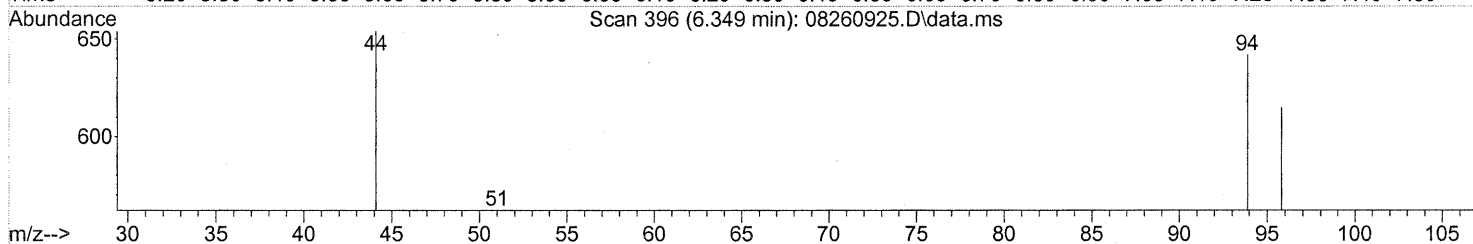
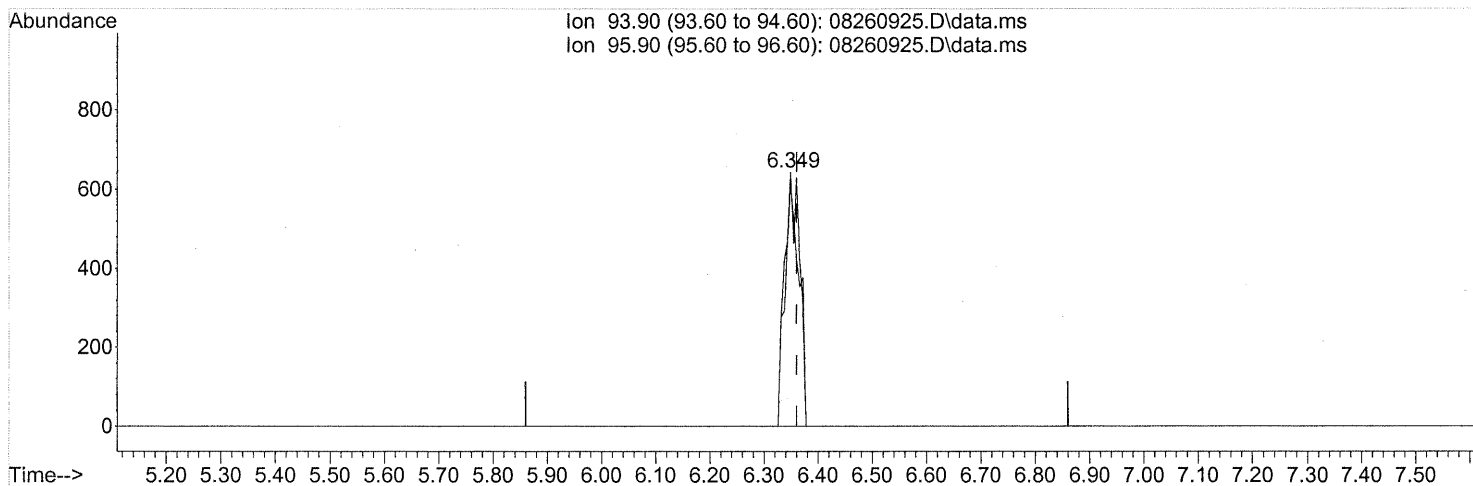
(4) Chloromethane (T)
 5.161min (+0.011) 0.65ng
 response 13873

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	26.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

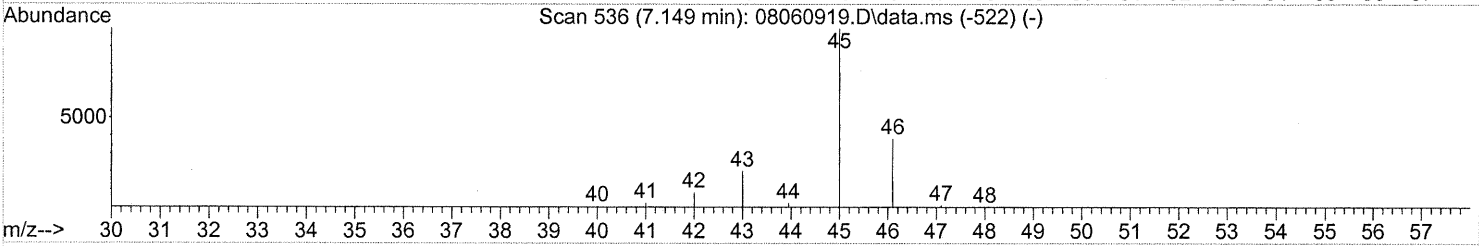
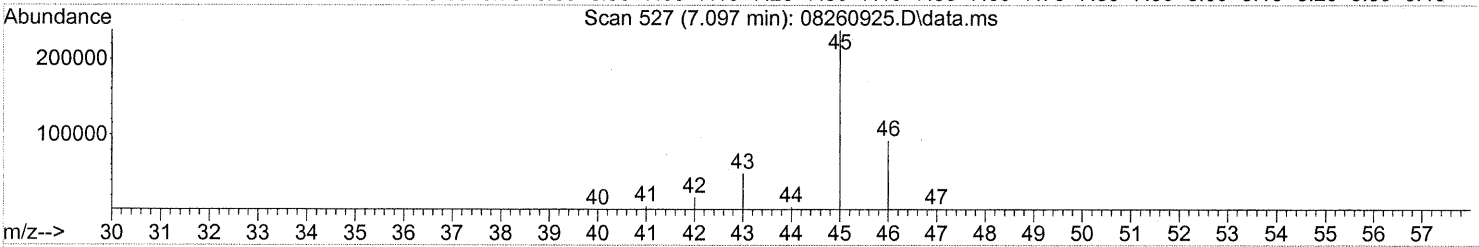
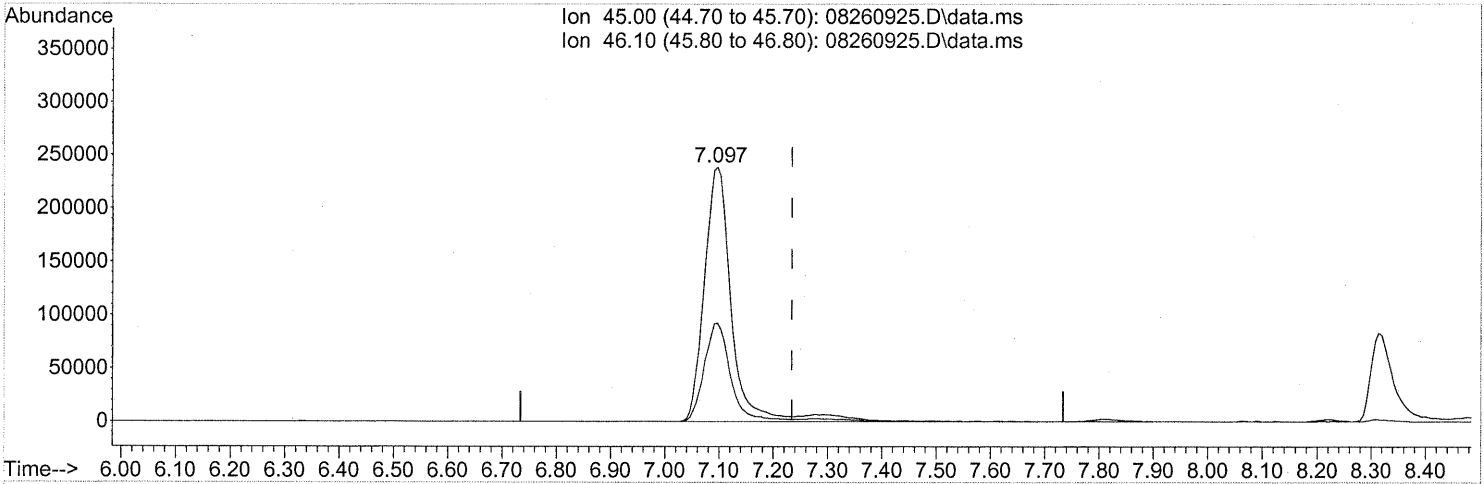
(8) Bromomethane (T)
 6.349min (-0.011) 0.10ng
 response 1244

Ion	Exp%	Act%
93.90	100	100
95.90	92.80	91.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(10) Ethanol (T)

7.097min (-0.137) 68.34ng

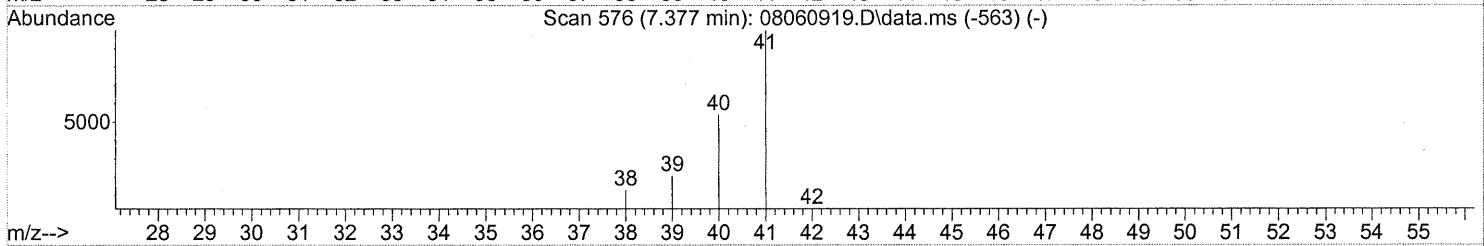
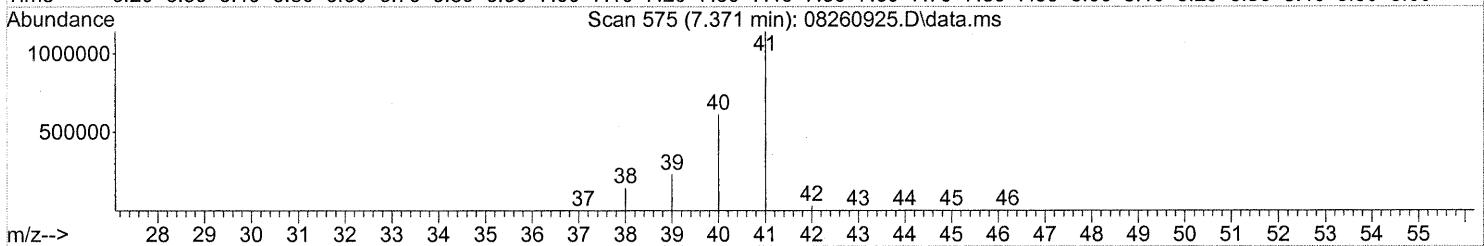
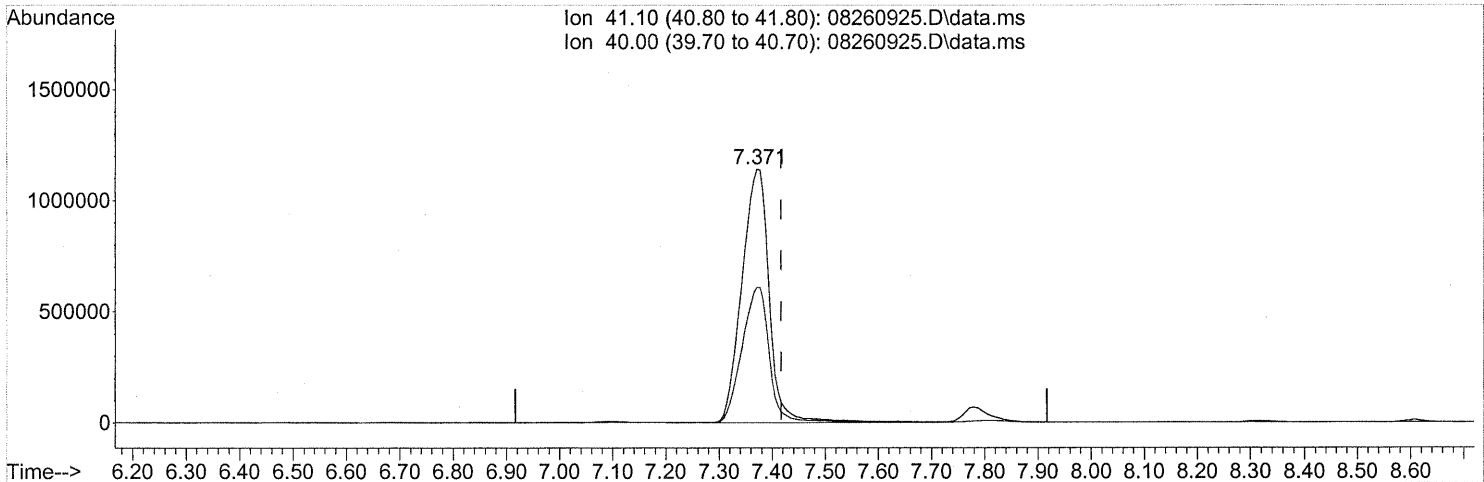
response 839943

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(11) Acetonitrile (T)
 7.371min (-0.046) 113.60ng
 response 4088994

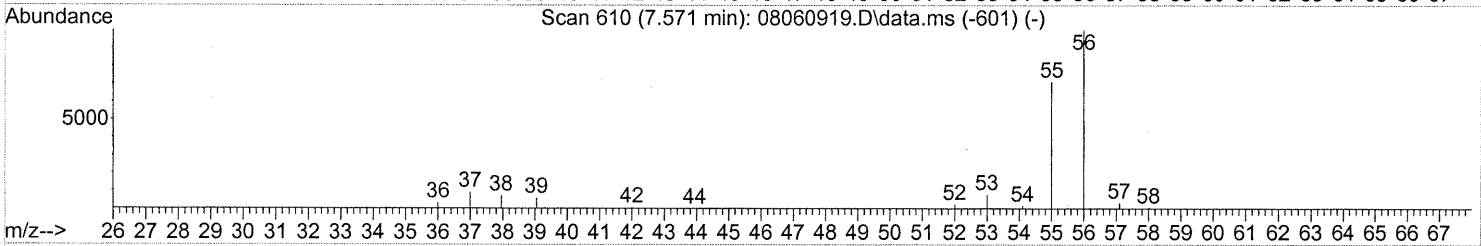
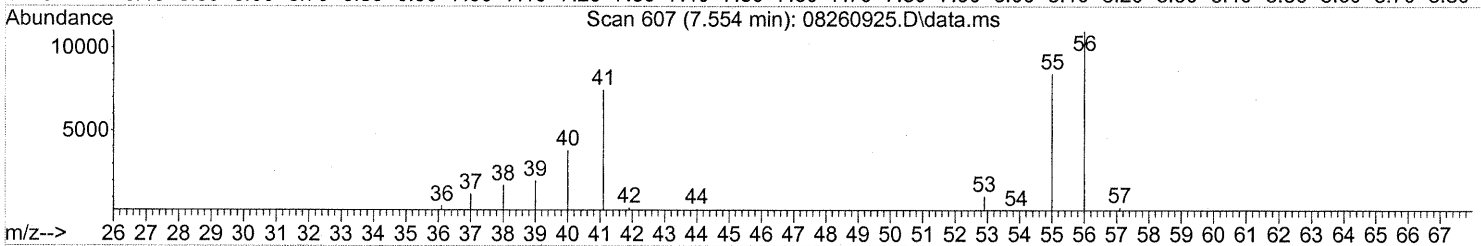
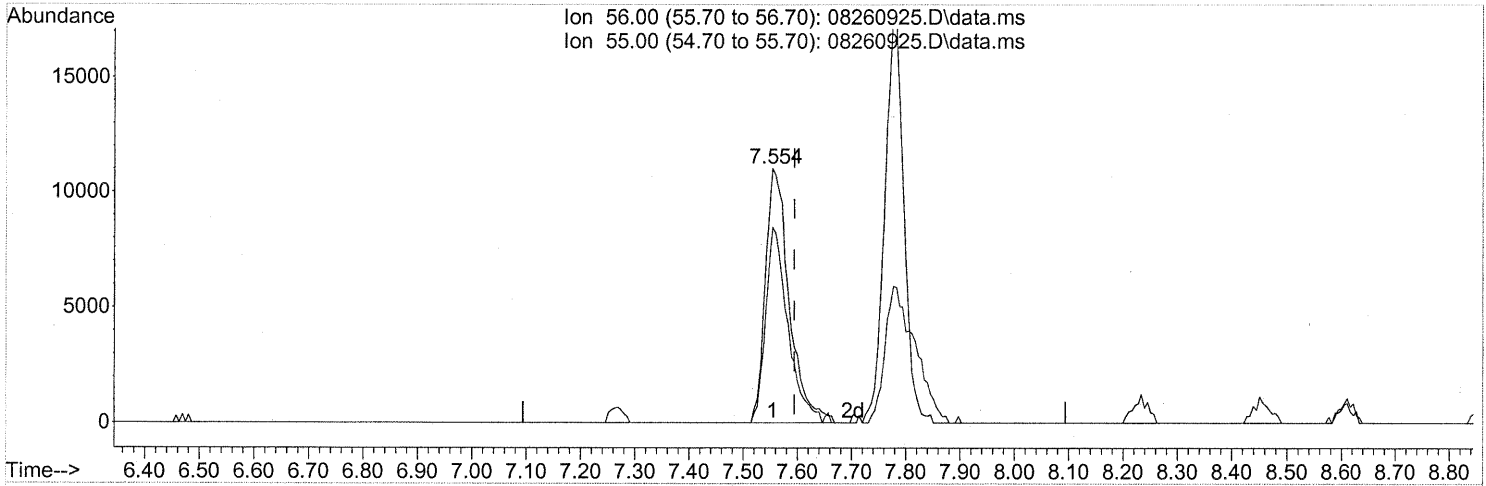
E
SEARCH

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

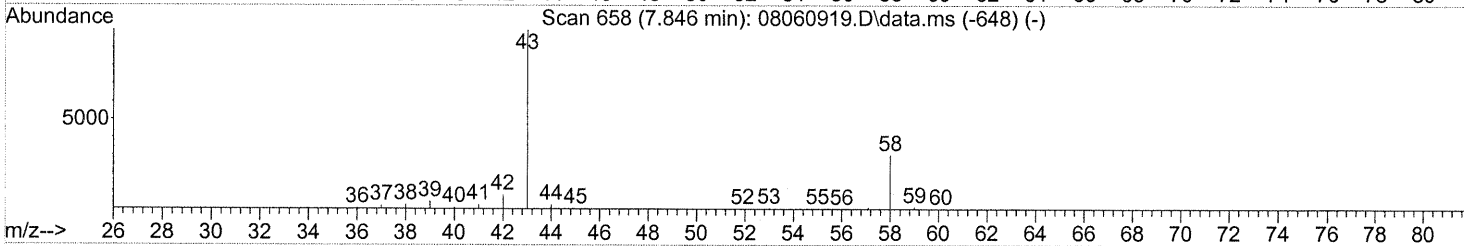
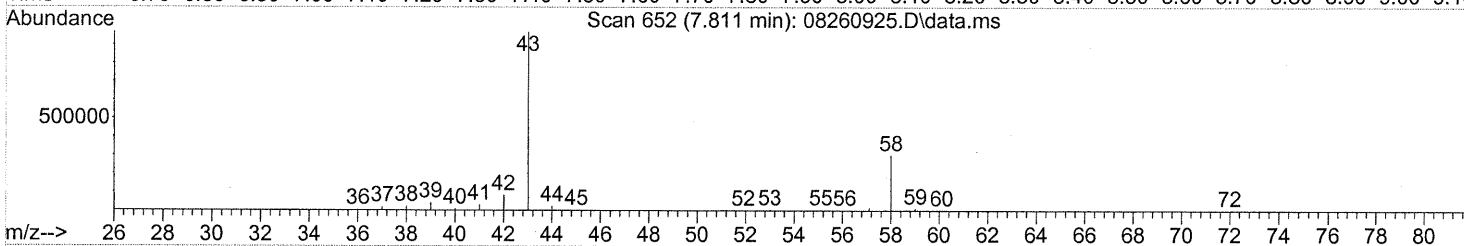
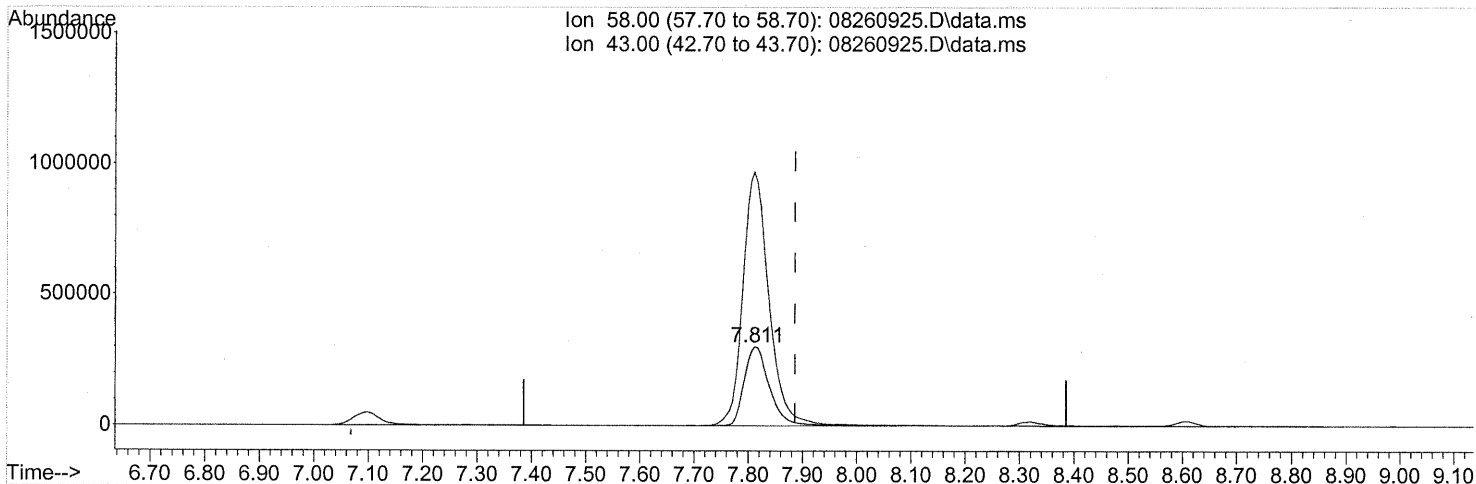
(12) Acrolein (T)
 7.554min (-0.040) 3.60ng
 response 33695

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	72.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



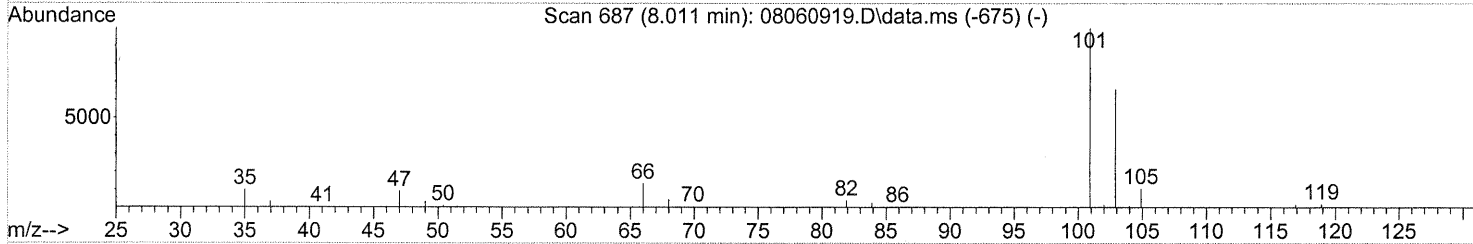
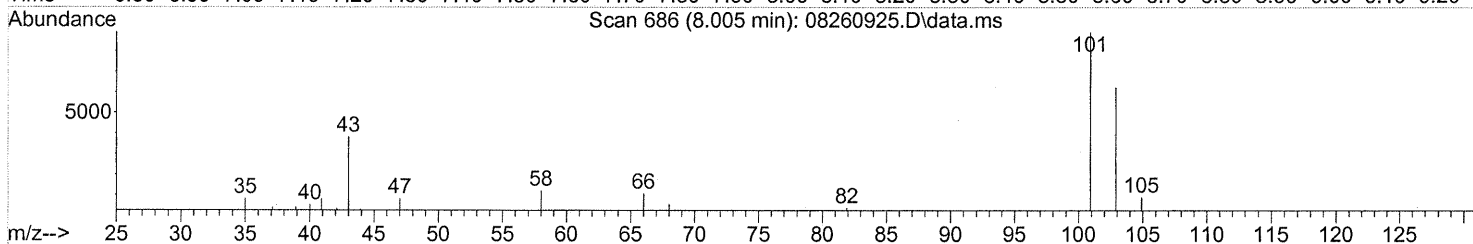
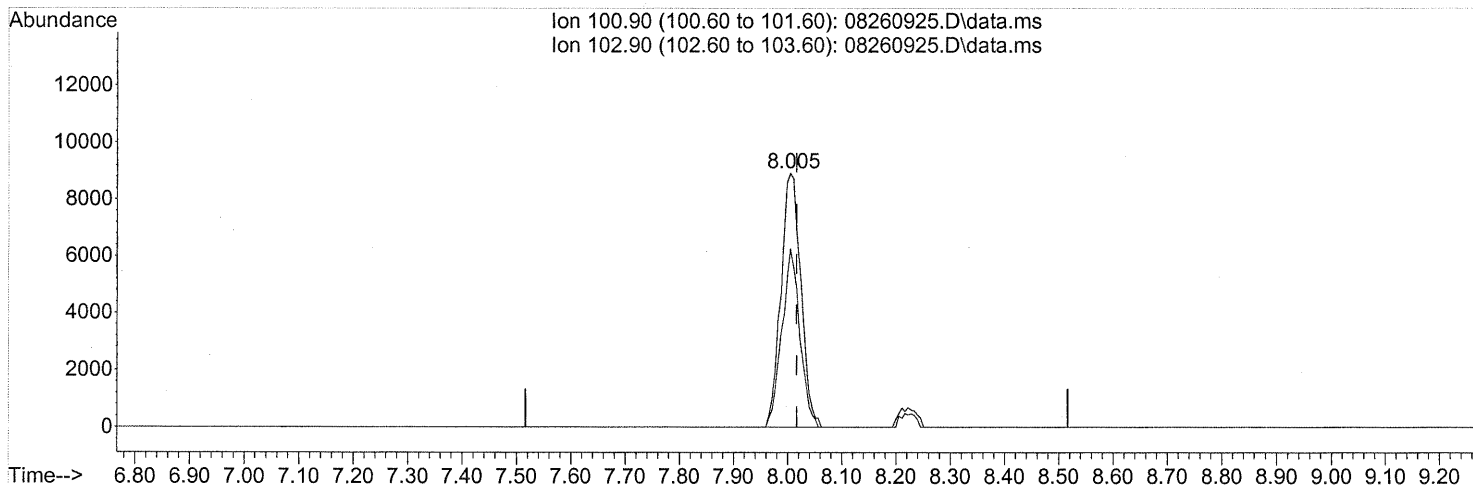
(13) Acetone (T)
 7.811min (-0.075) 83.34ng
 response 966519

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	335.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.011) 0.79ng

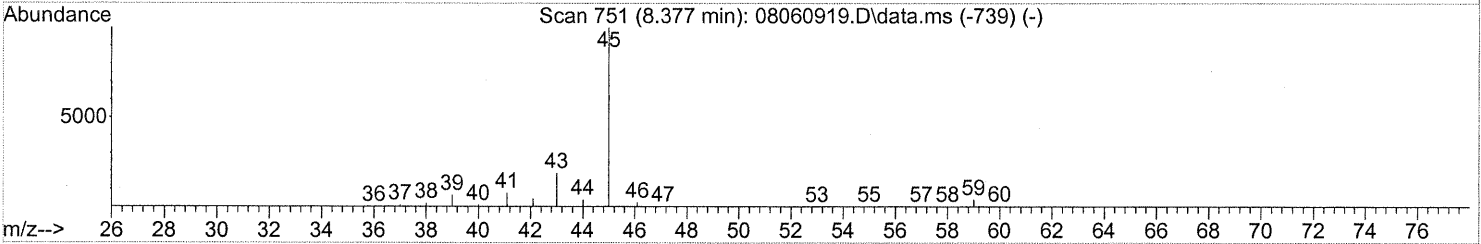
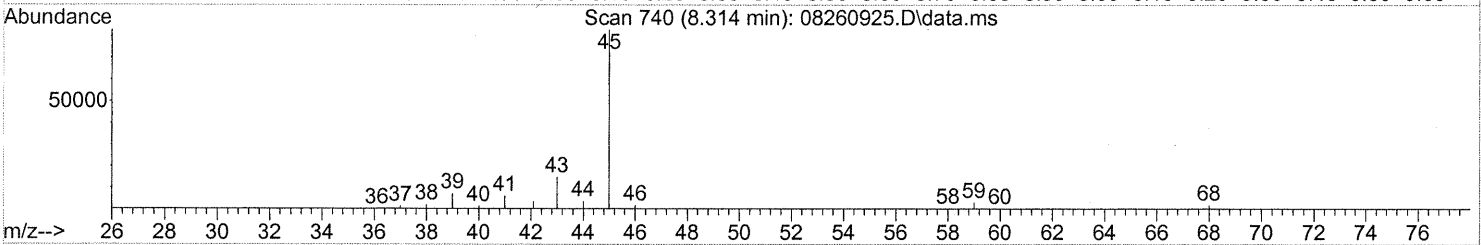
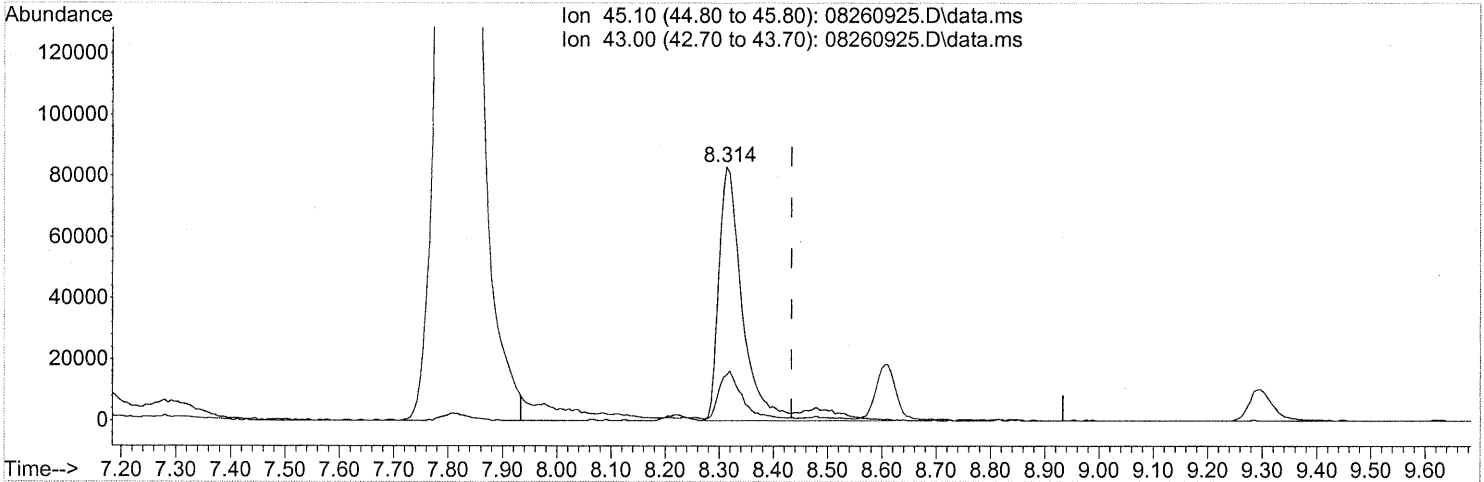
response 22721

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	63.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

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

8.314min (-0.120) 5.83ng

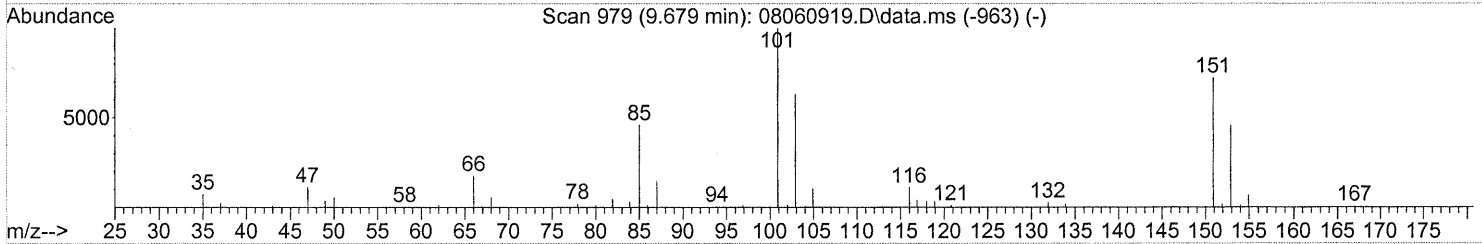
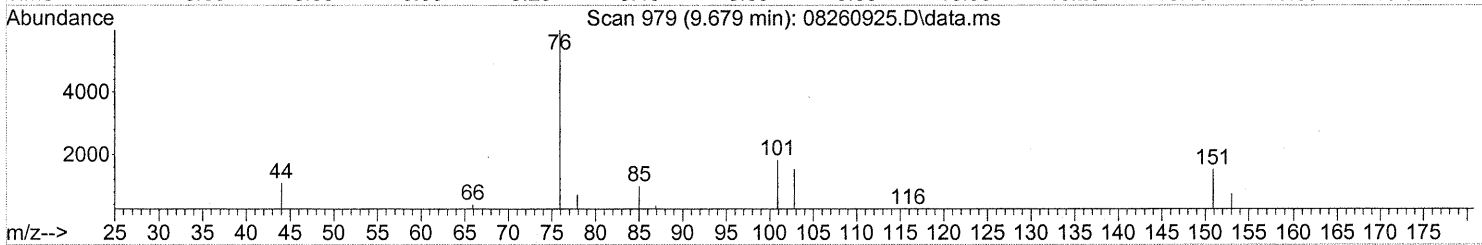
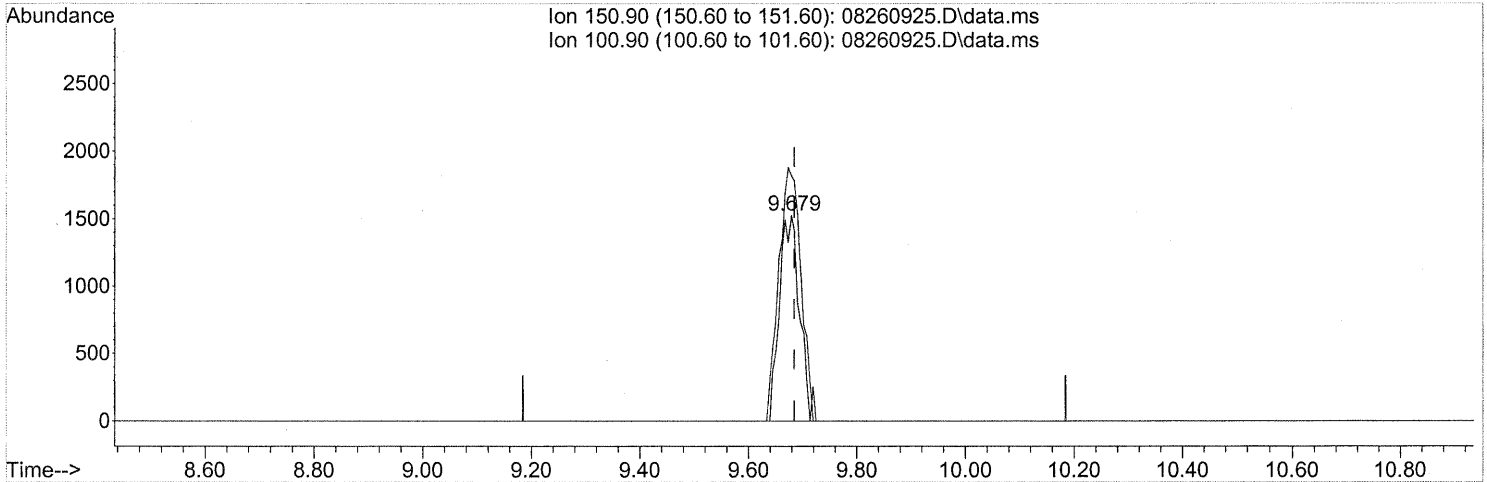
response 265586

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	17.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.38ng

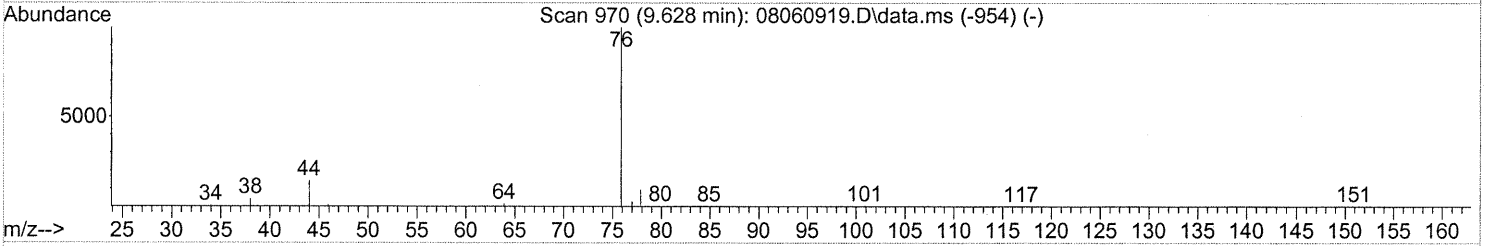
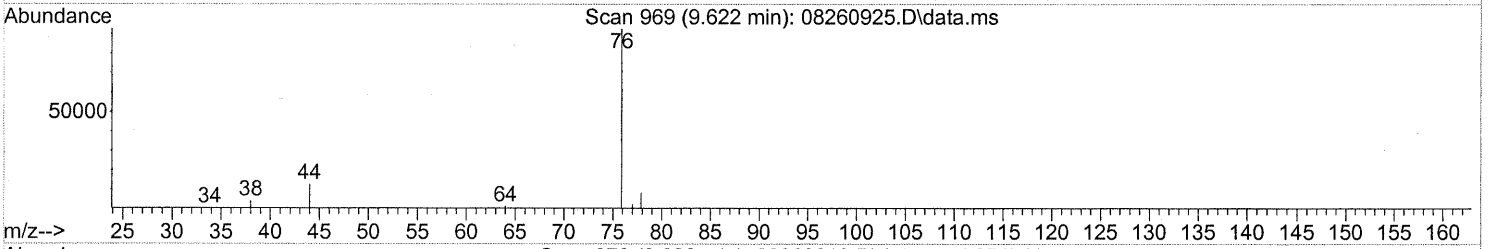
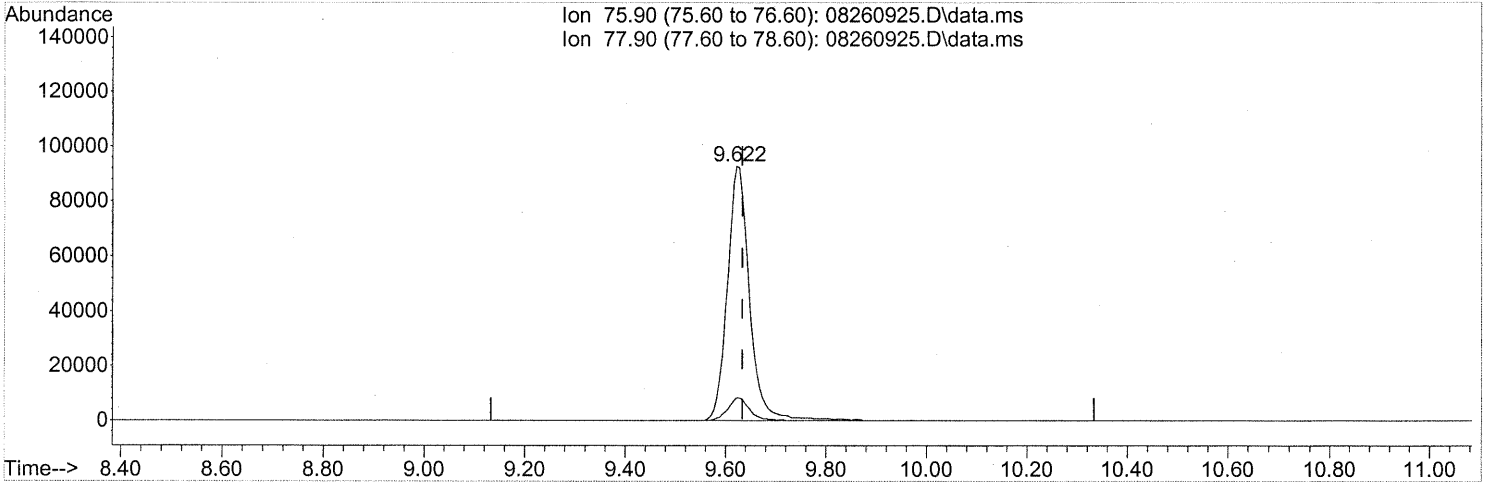
response 3921

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	135.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260925.D
Acq On : 27 Aug 2009 6:39
Operator : WA/CC
Sample : P0902876-009 (1000mL)
Misc : Environmental Health 102473
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260925.D\data.ms

(22) Carbon Disulfide (T)

9.622min (-0.011) 5.18ng

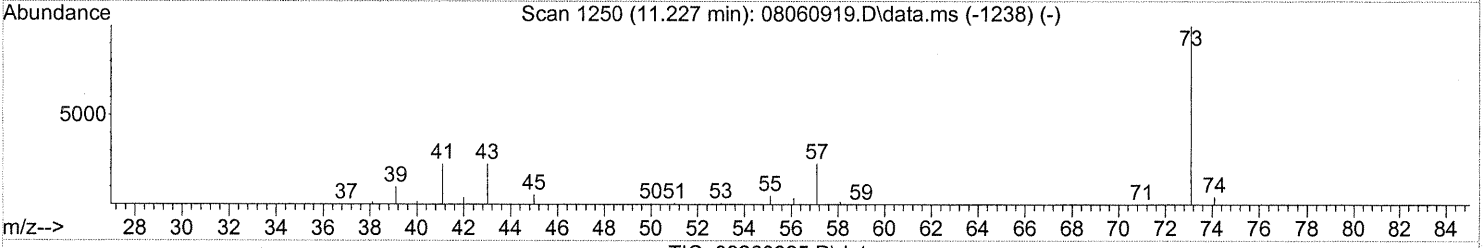
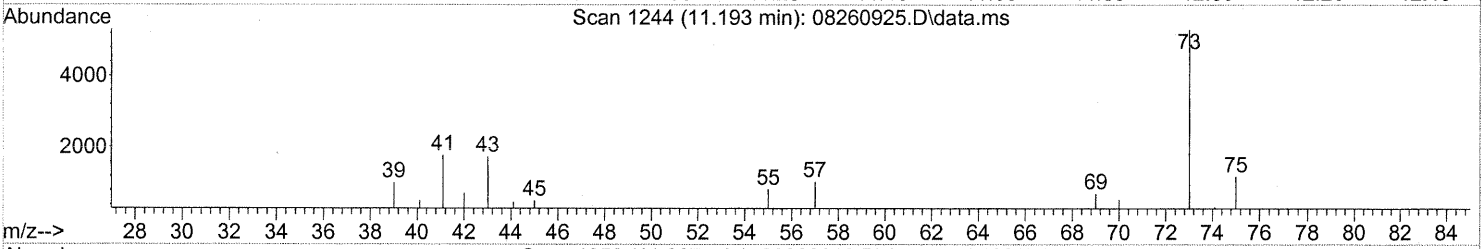
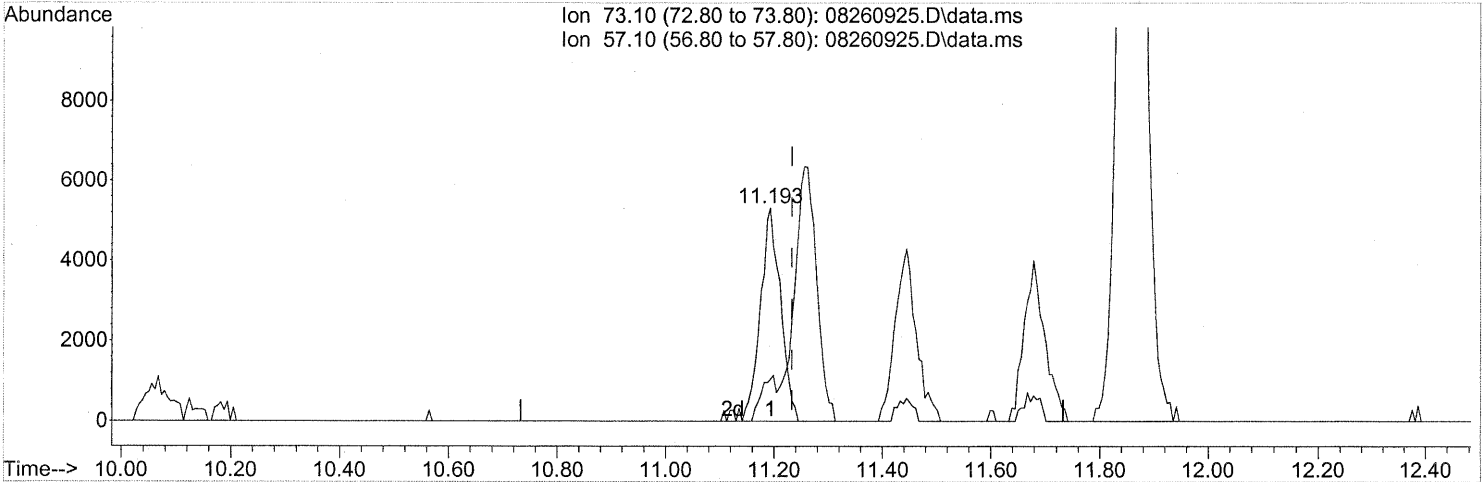
response 284227

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.193min (-0.040) 0.32ng

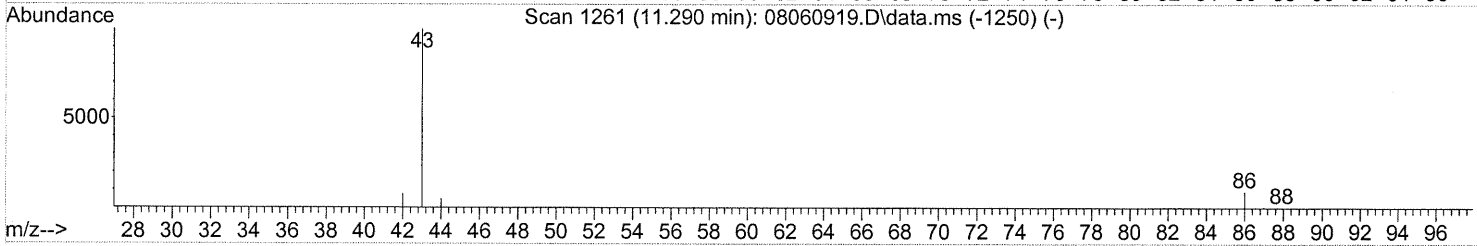
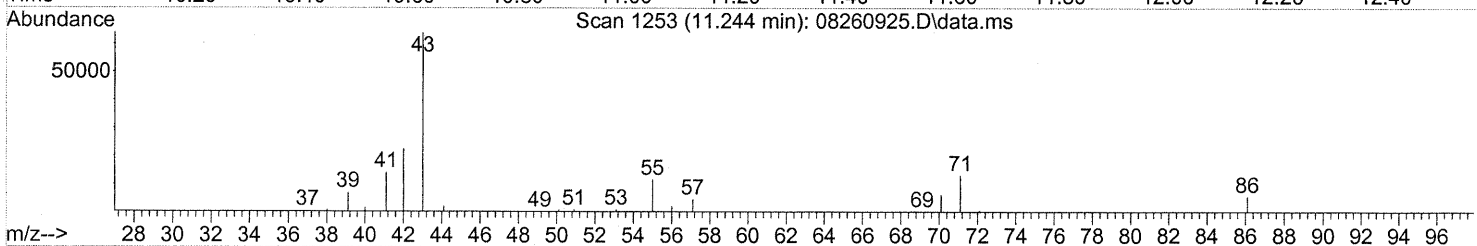
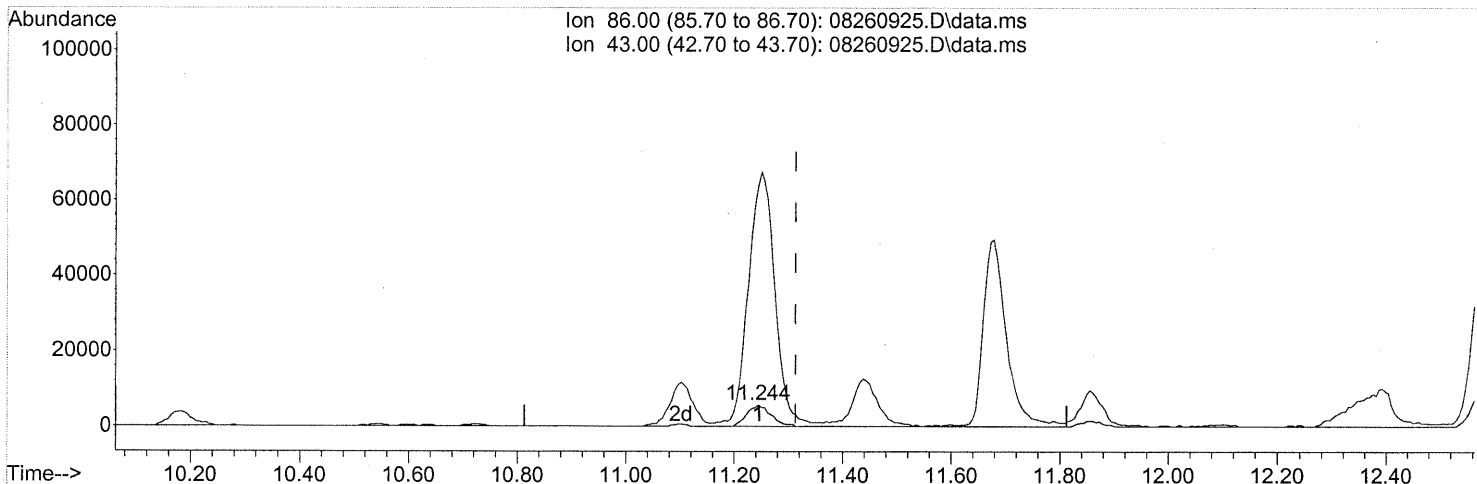
response 13836

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	17.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.244min (-0.069) 7.13ng

response 16830

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1323.59#
0.00	0.00	0.00
0.00	0.00	0.00

FP

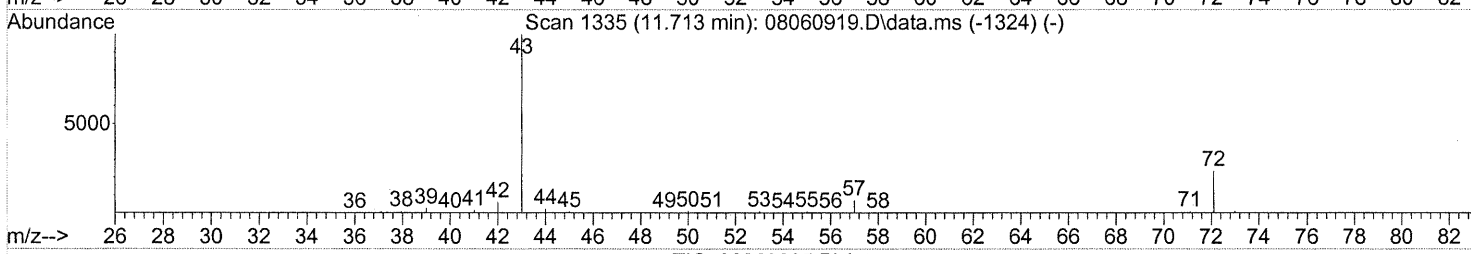
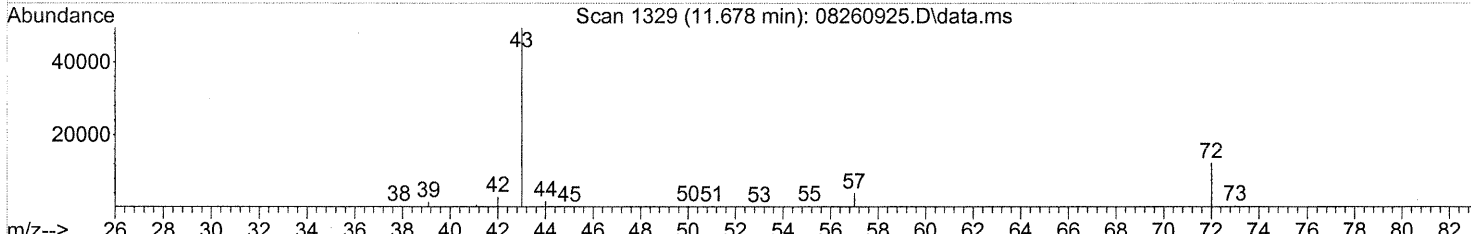
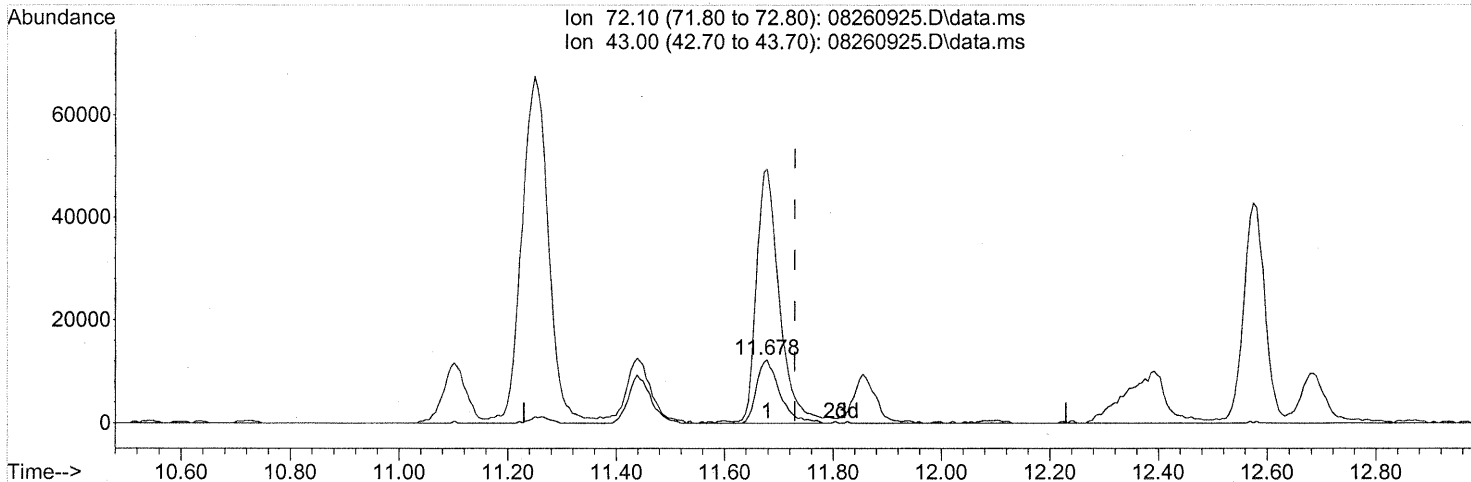
UM 9/2/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

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

11.678min (-0.051) 3.46ng

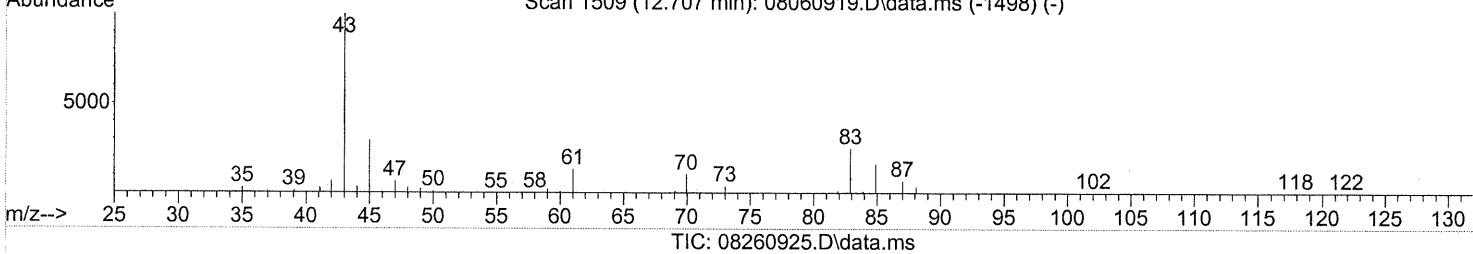
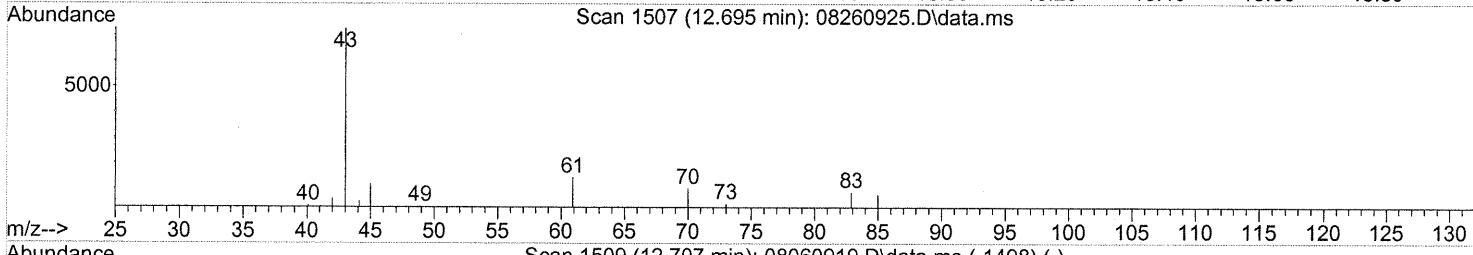
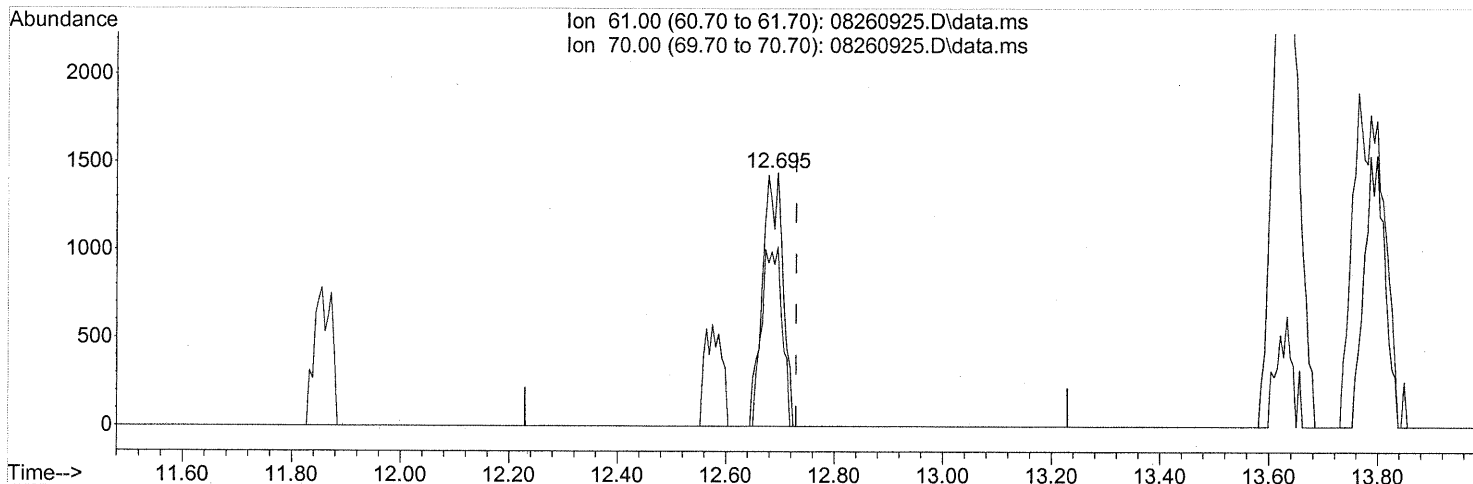
response 36209

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	397.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



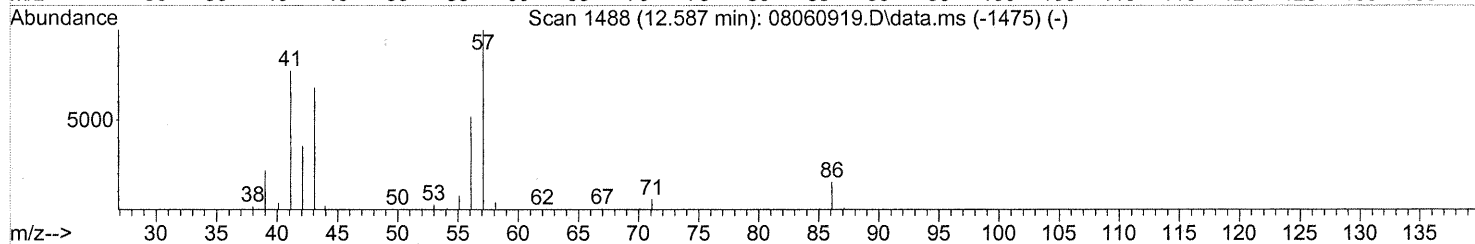
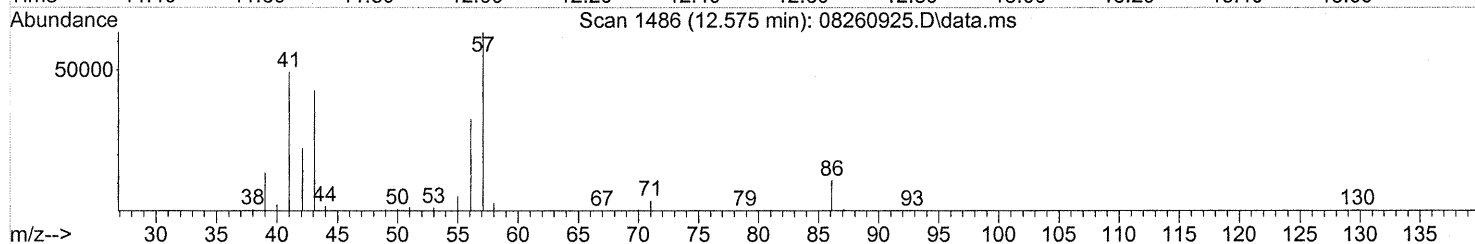
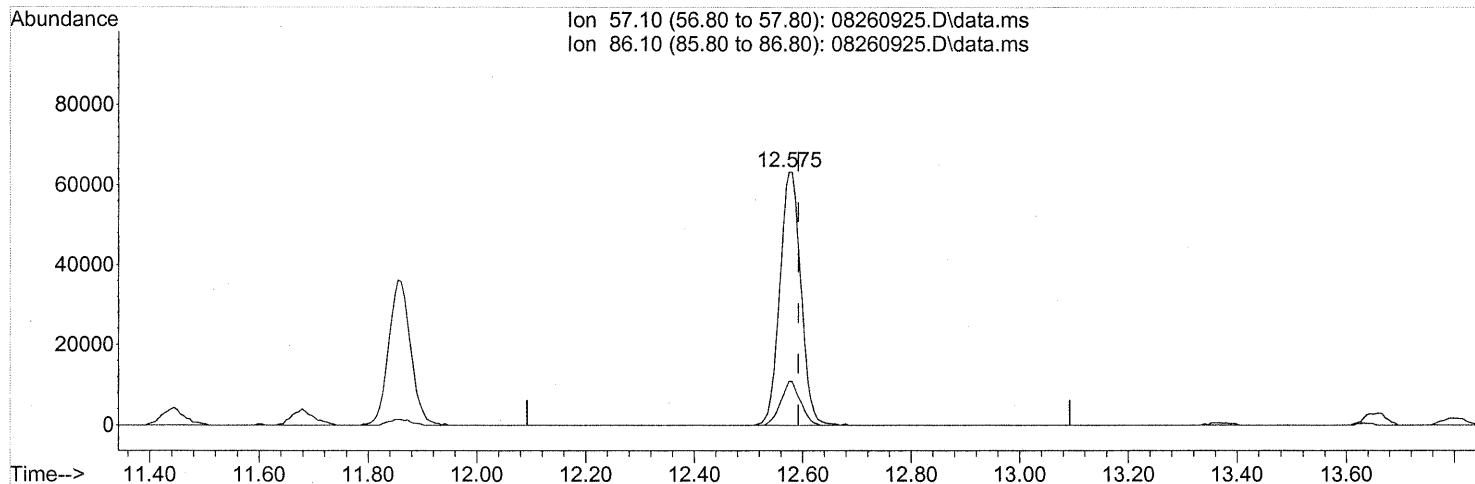
(30) Ethyl Acetate (T)
 12.695min (-0.034) 0.69ng
 response 3737

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	70.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

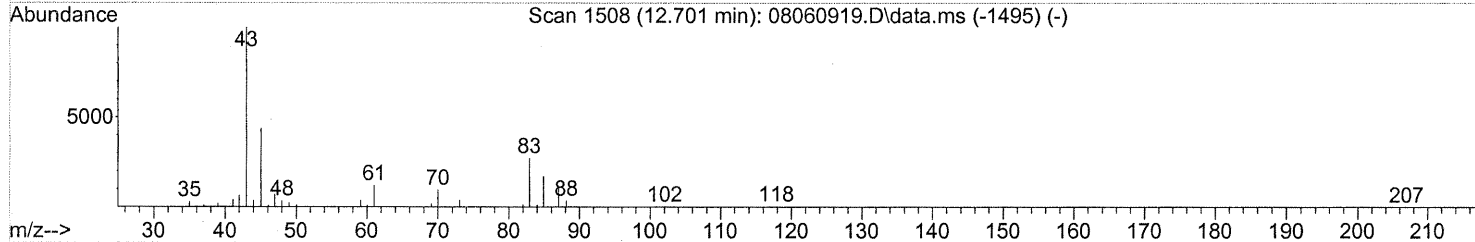
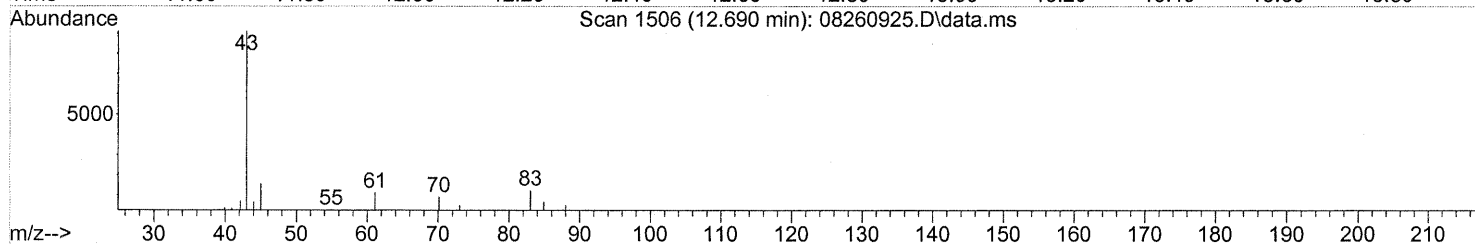
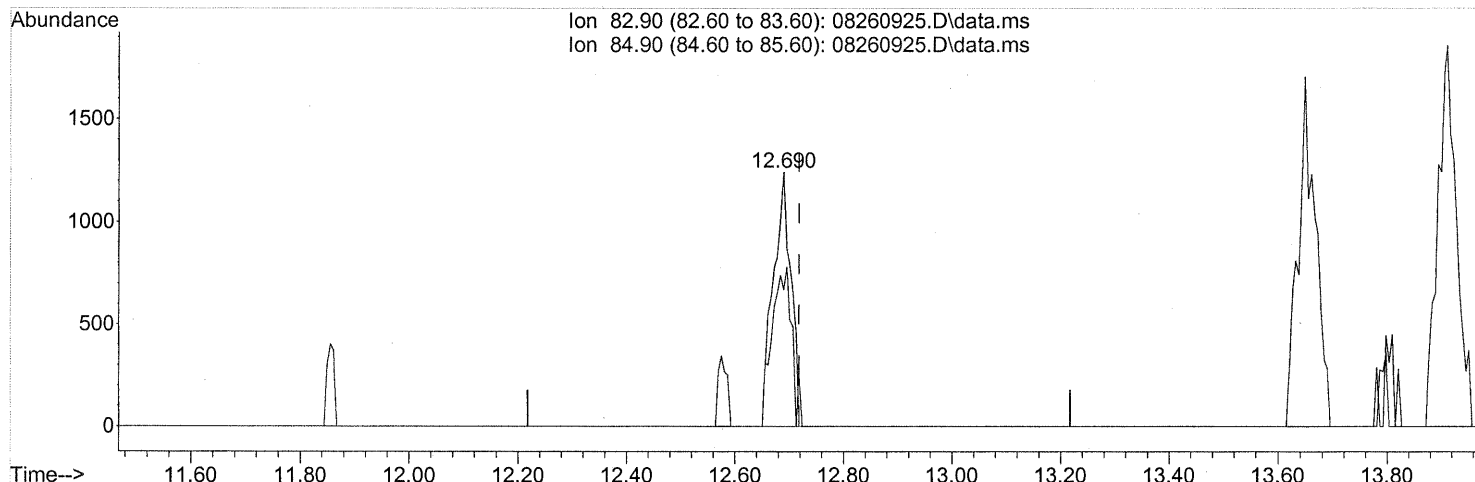
(31) n-Hexane (T)
 12.575min (-0.017) 6.12ng
 response 170660

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

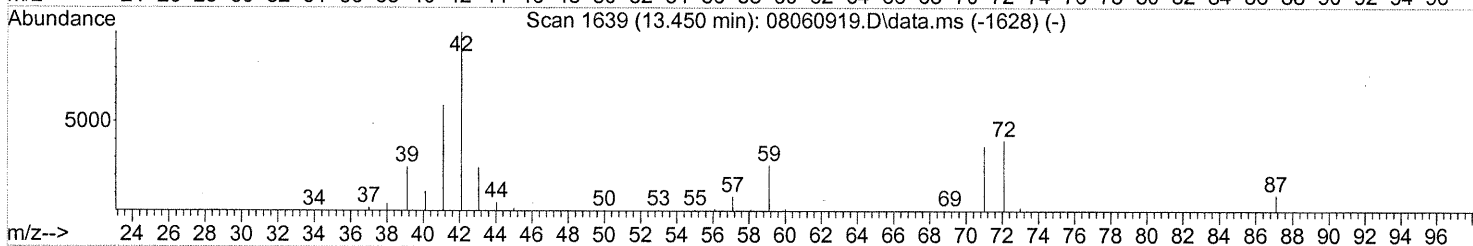
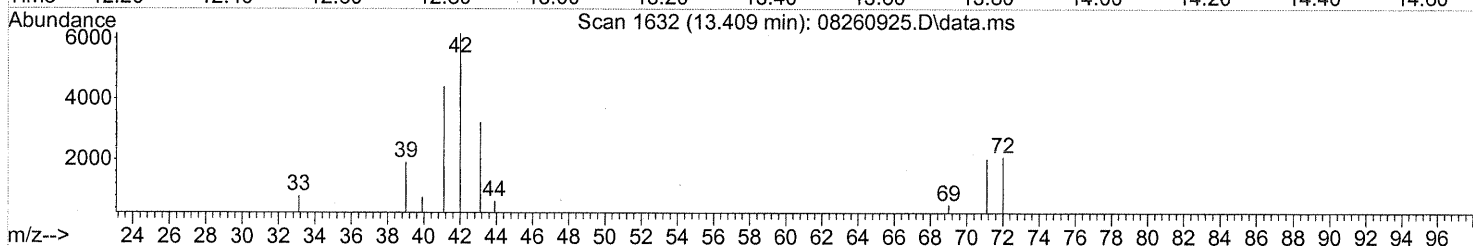
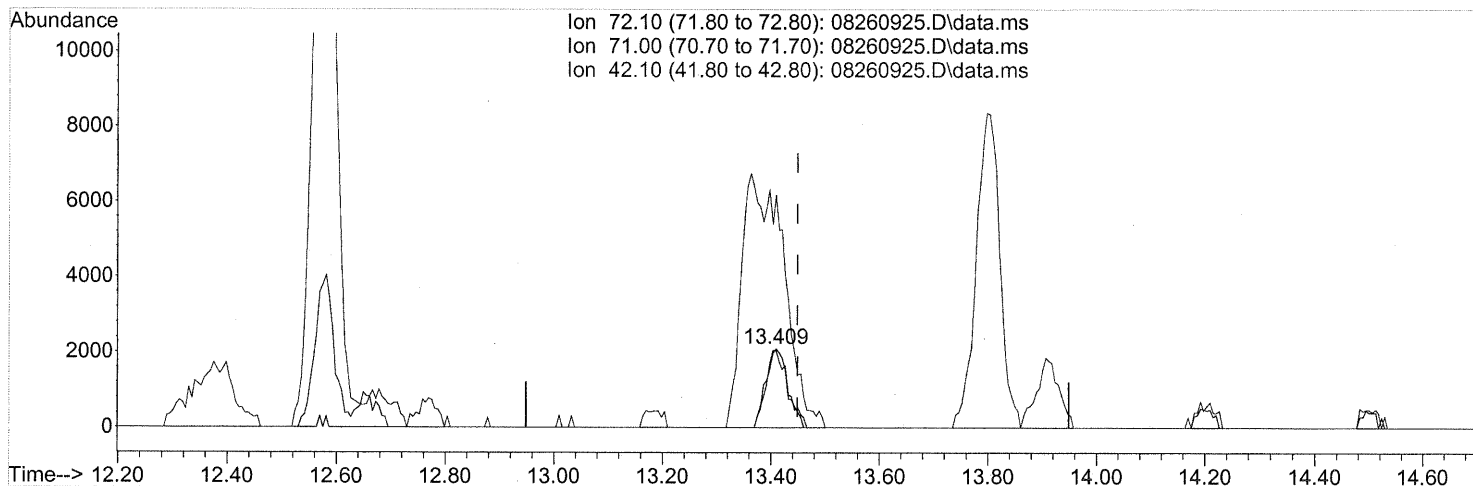
(32) Chloroform (T)
 12.690min (-0.029) 0.11ng
 response 2784

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	70.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.409min (-0.040) 0.52ng

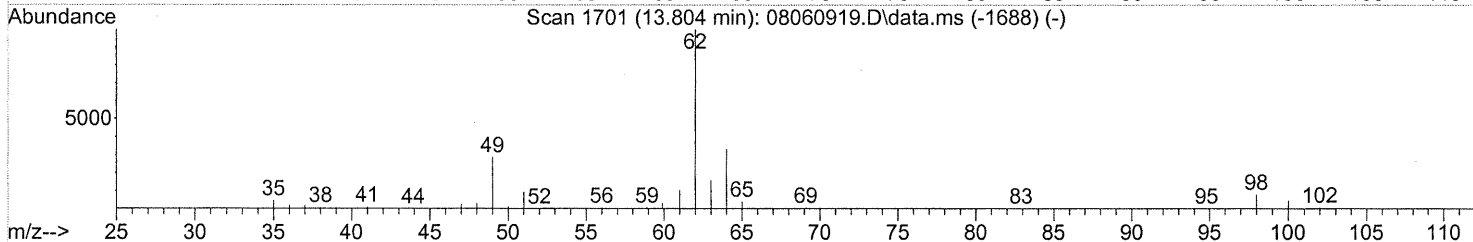
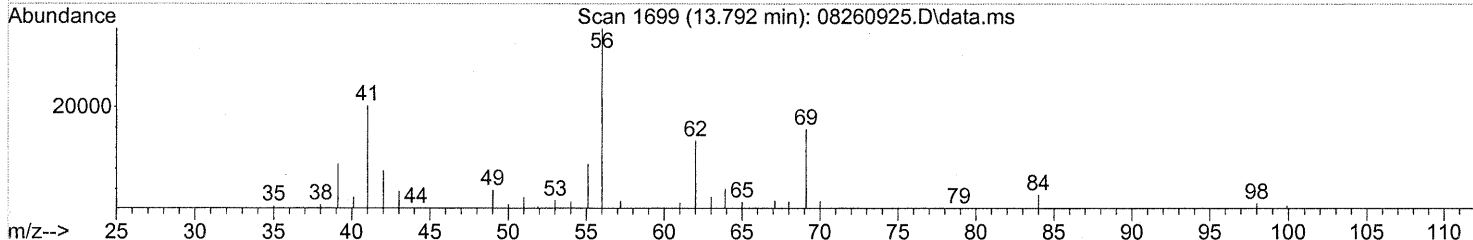
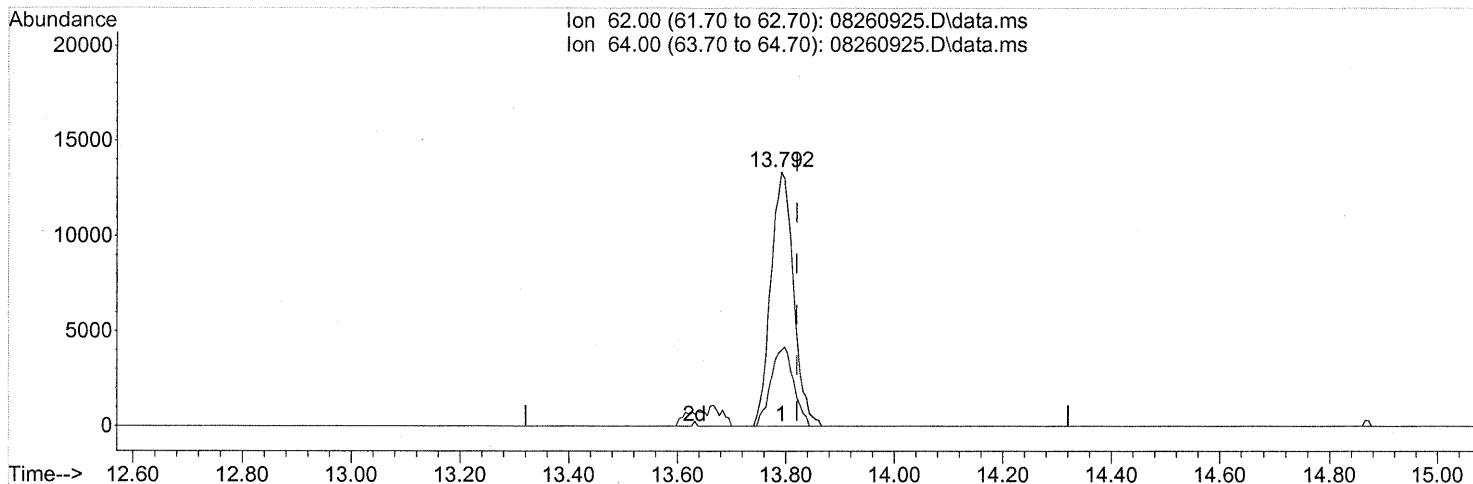
response 5789

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	99.59
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.73ng

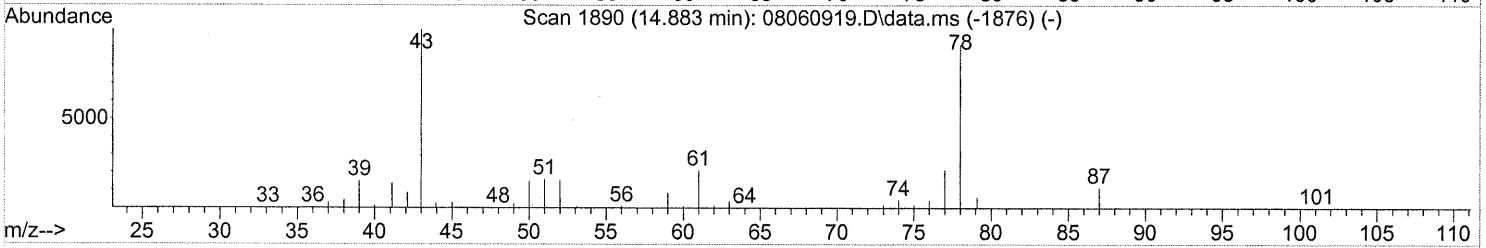
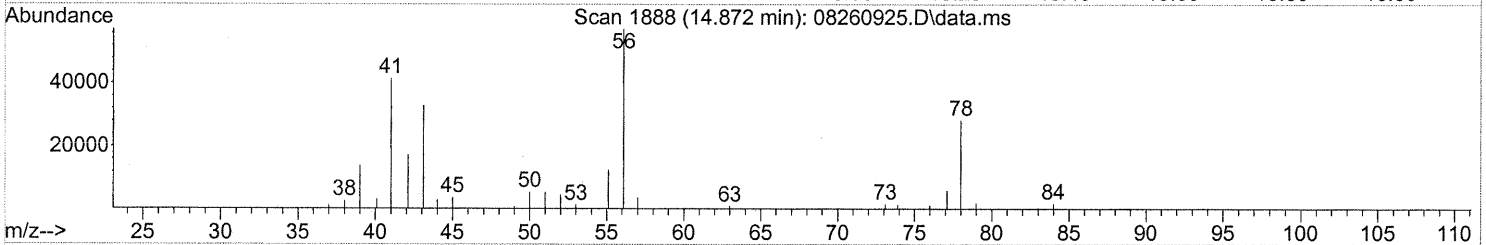
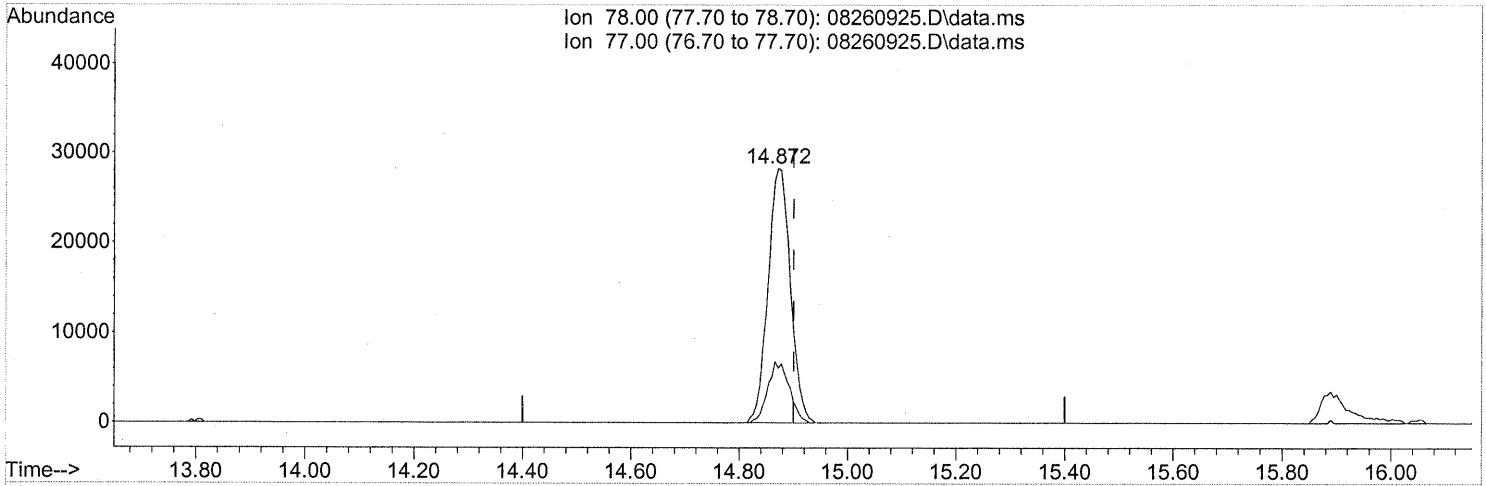
response 38883

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(41) Benzene (T)

14.872min (-0.029) 1.31ng

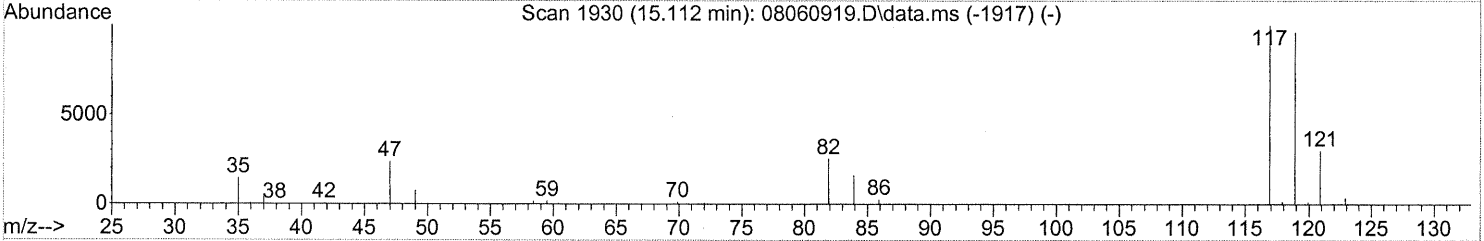
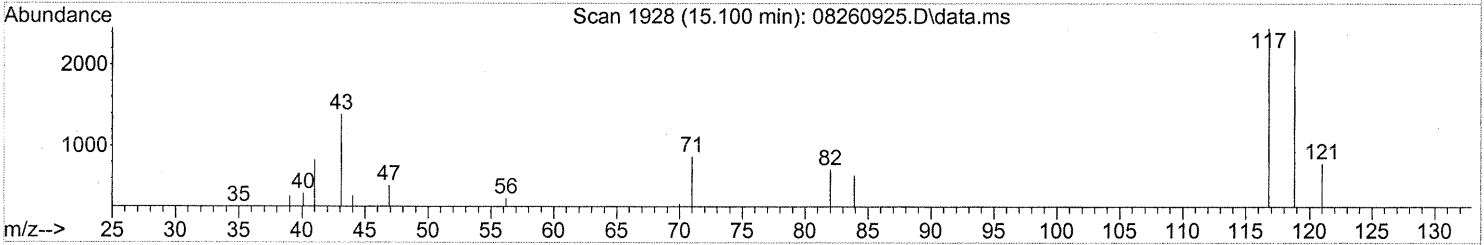
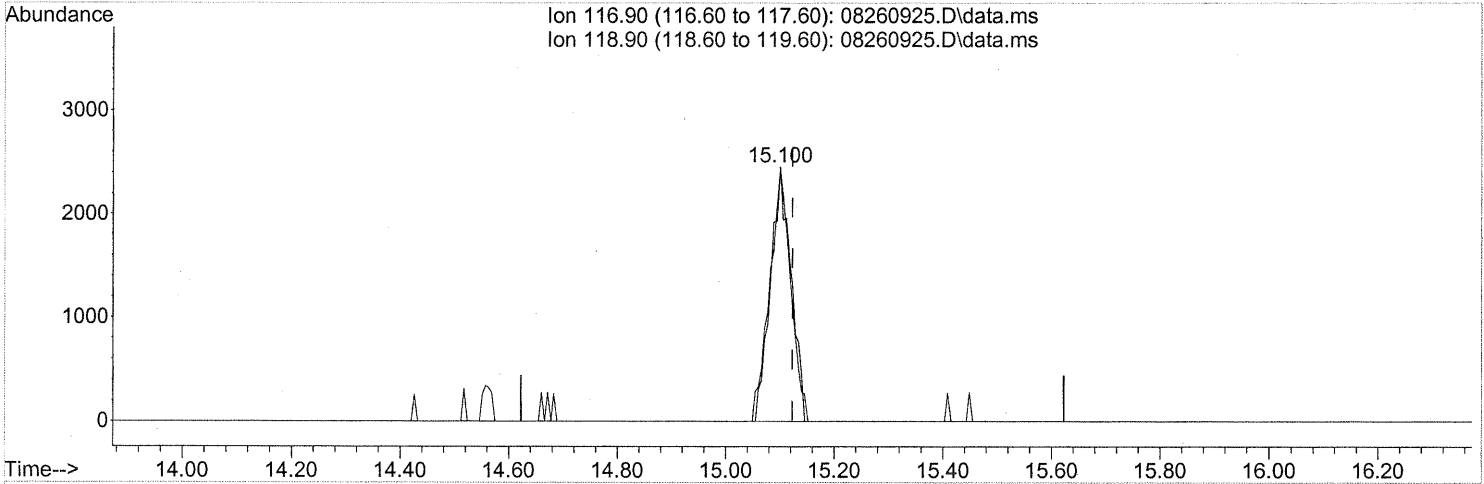
response 80894

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.33ng

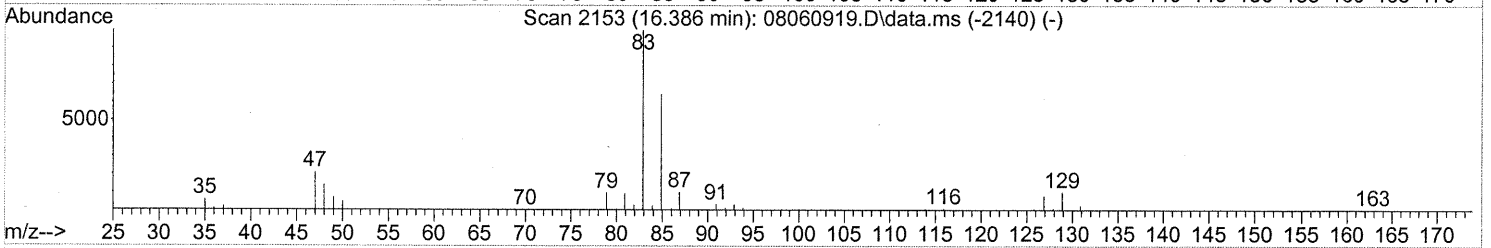
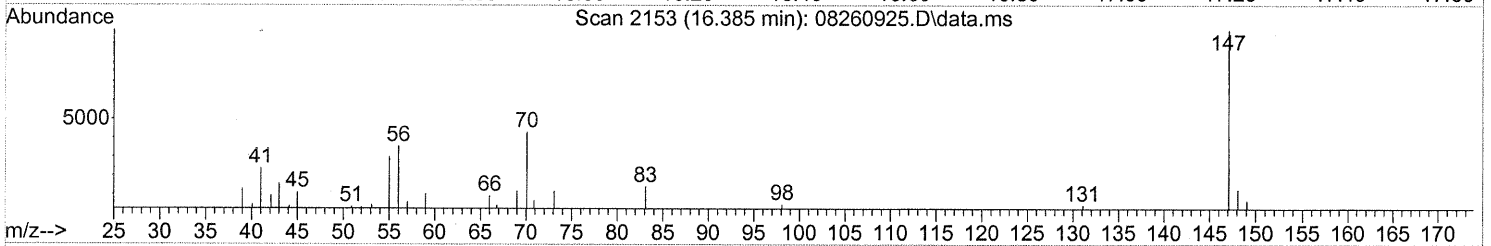
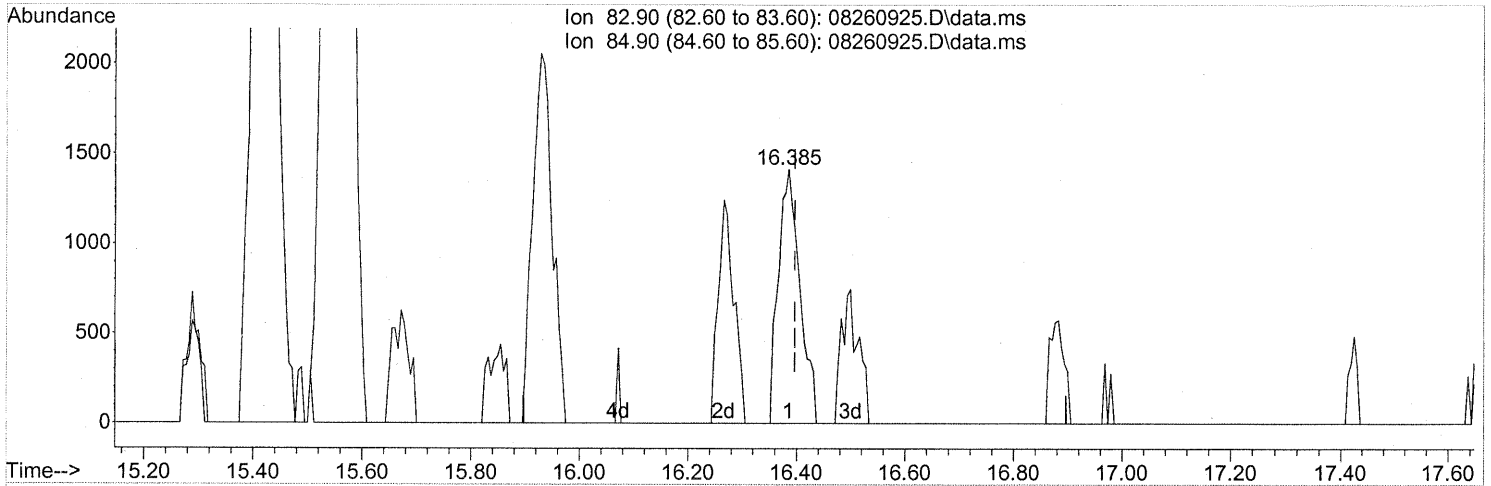
response 6461

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	101.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.385min (-0.011) 0.19ng

response 3884

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

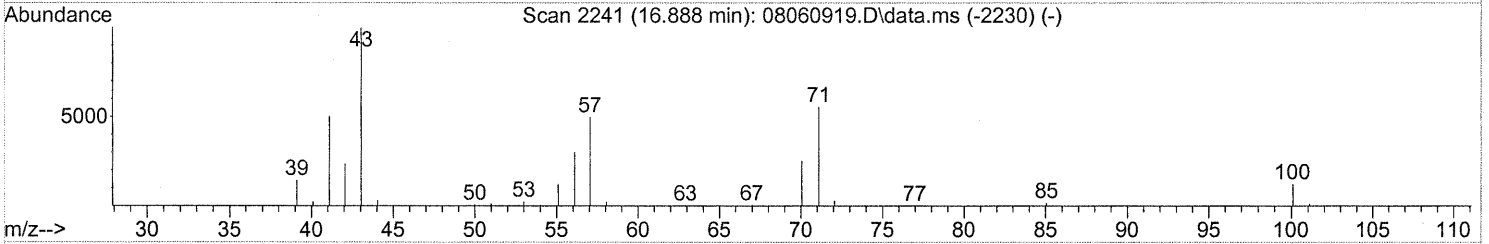
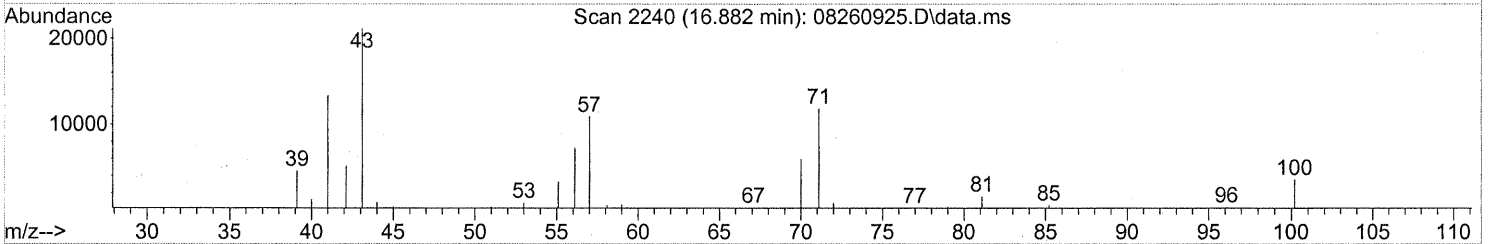
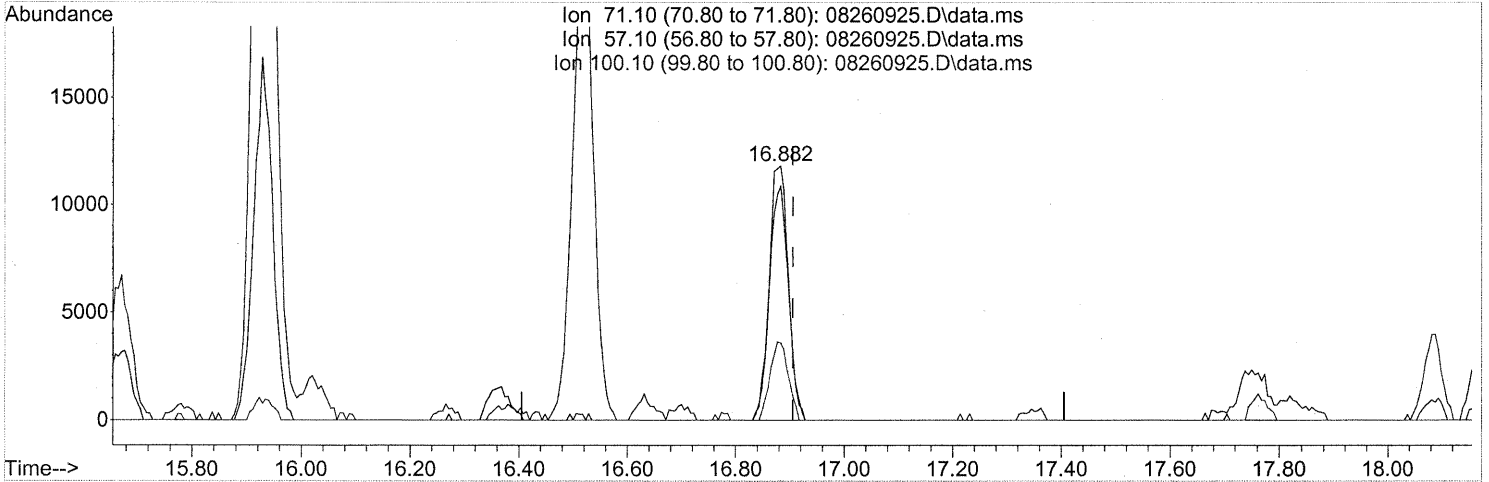
*FP
in 9/11/09*

— 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

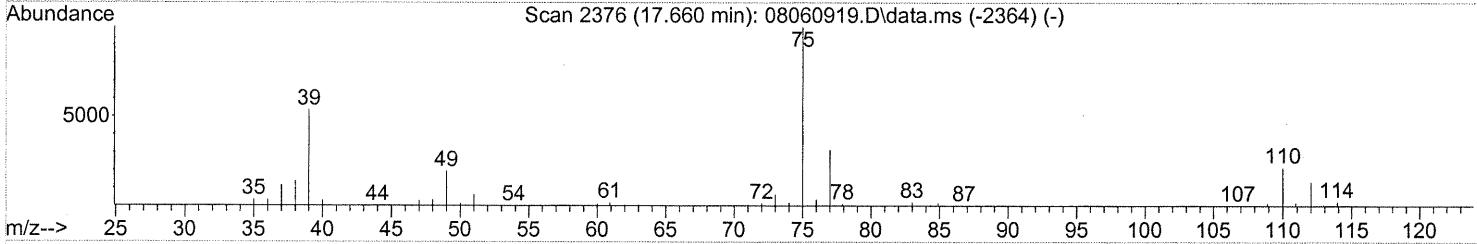
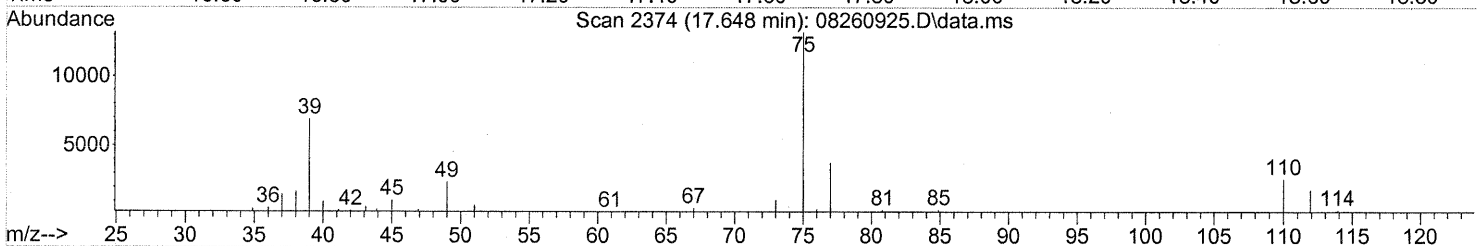
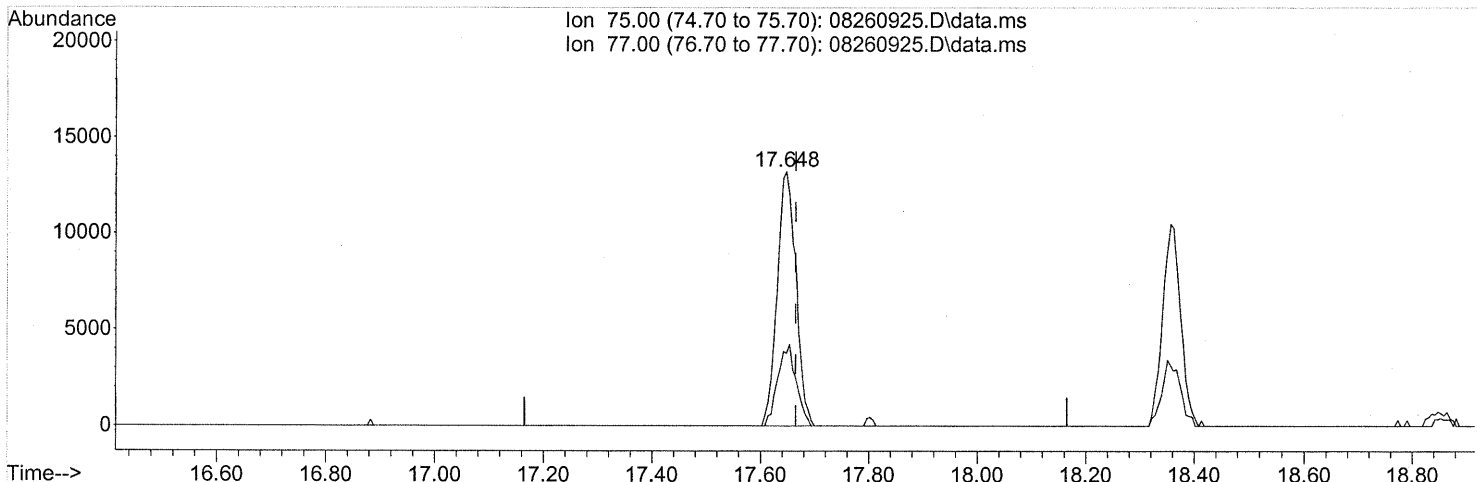
(51) n-Heptane (T)
 16.882min (-0.023) 1.74ng
 response 28812

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	90.84
100.10	26.40	29.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 1.23ng

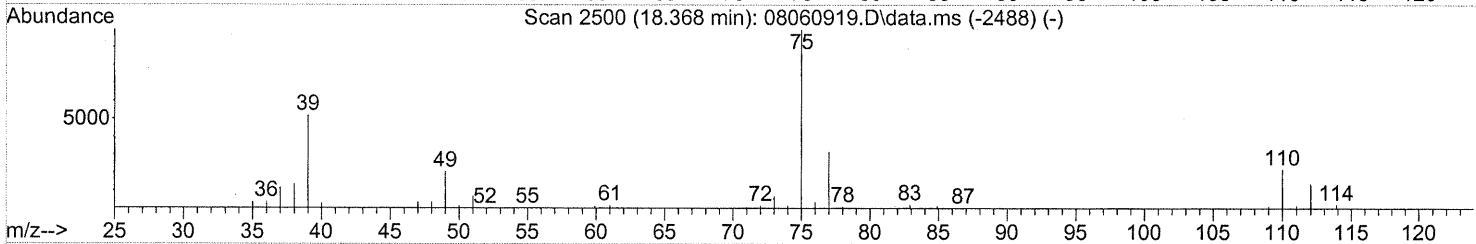
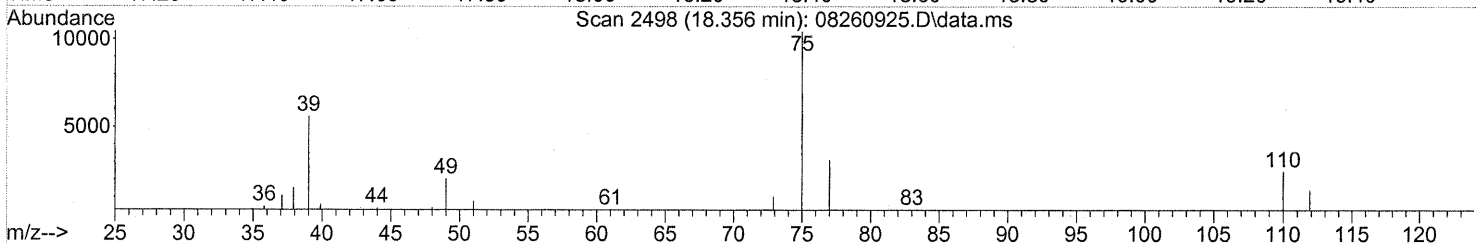
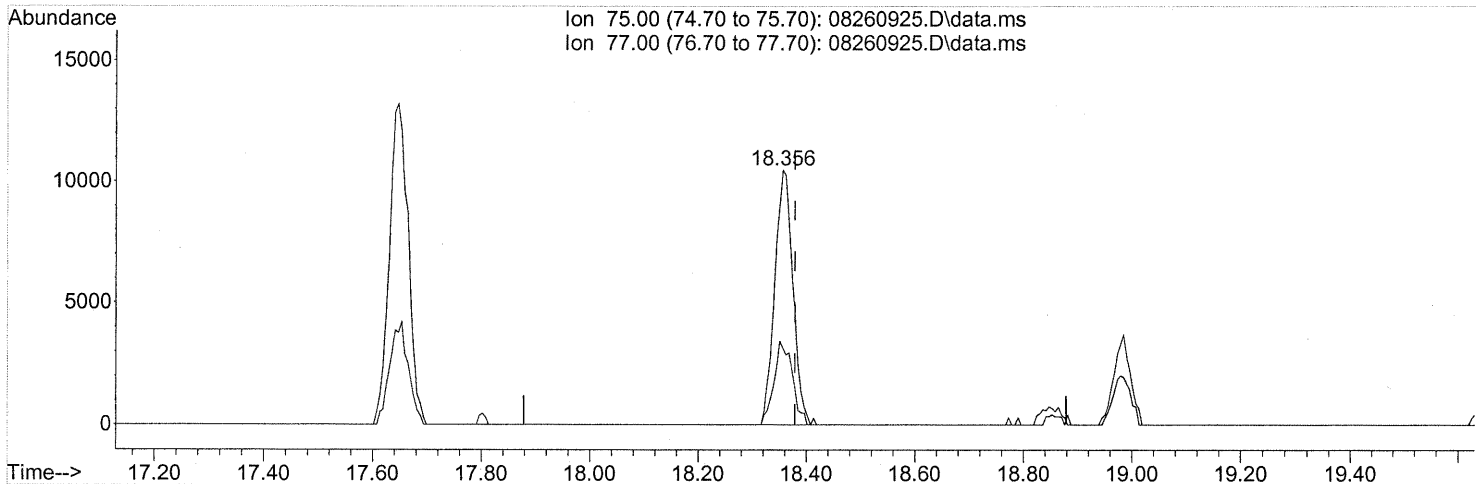
response 31661

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 1.00ng

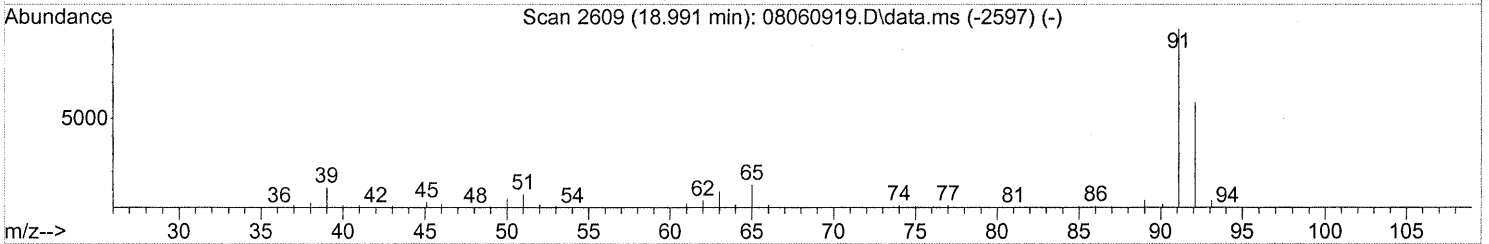
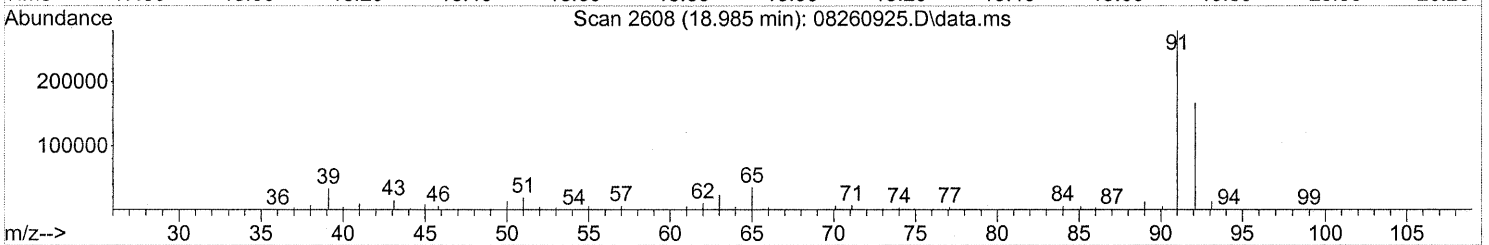
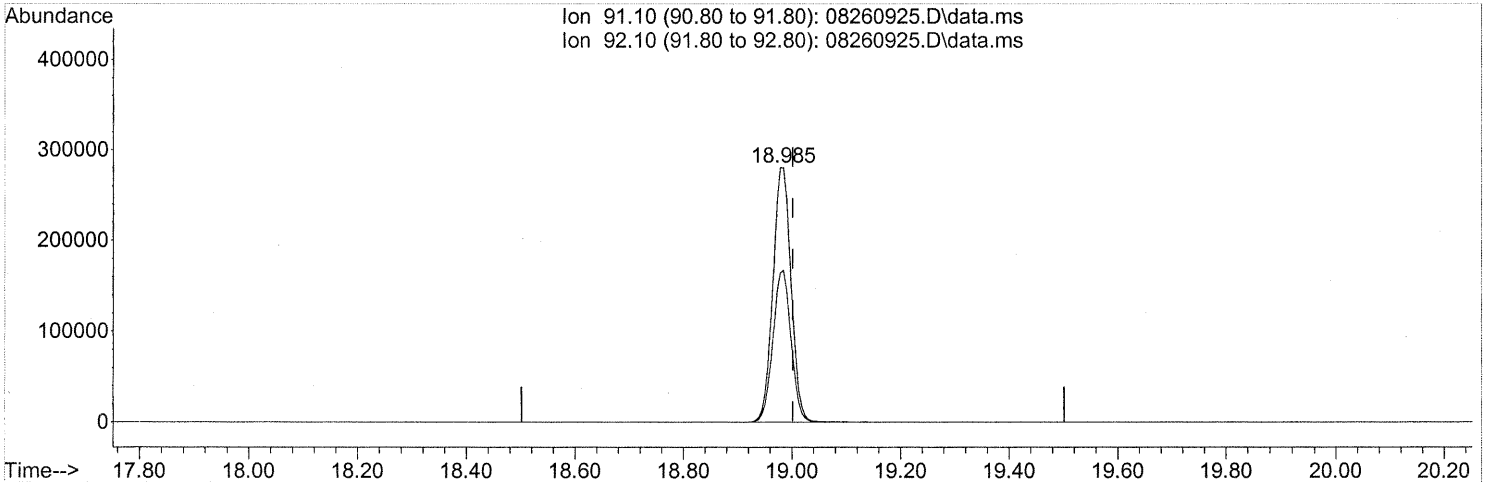
response 24394

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	32.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(58) Toluene (T)

18.985min (-0.017) 11.04ng

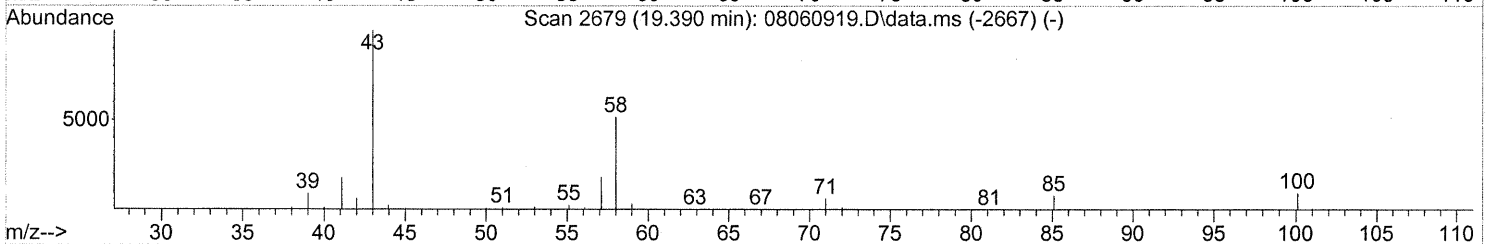
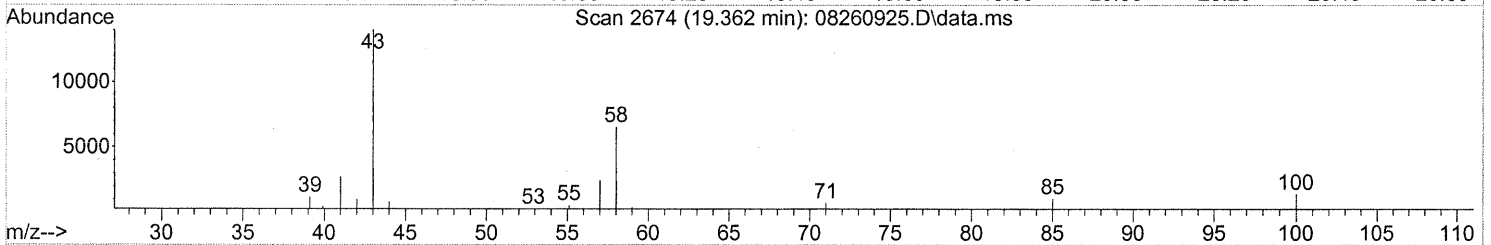
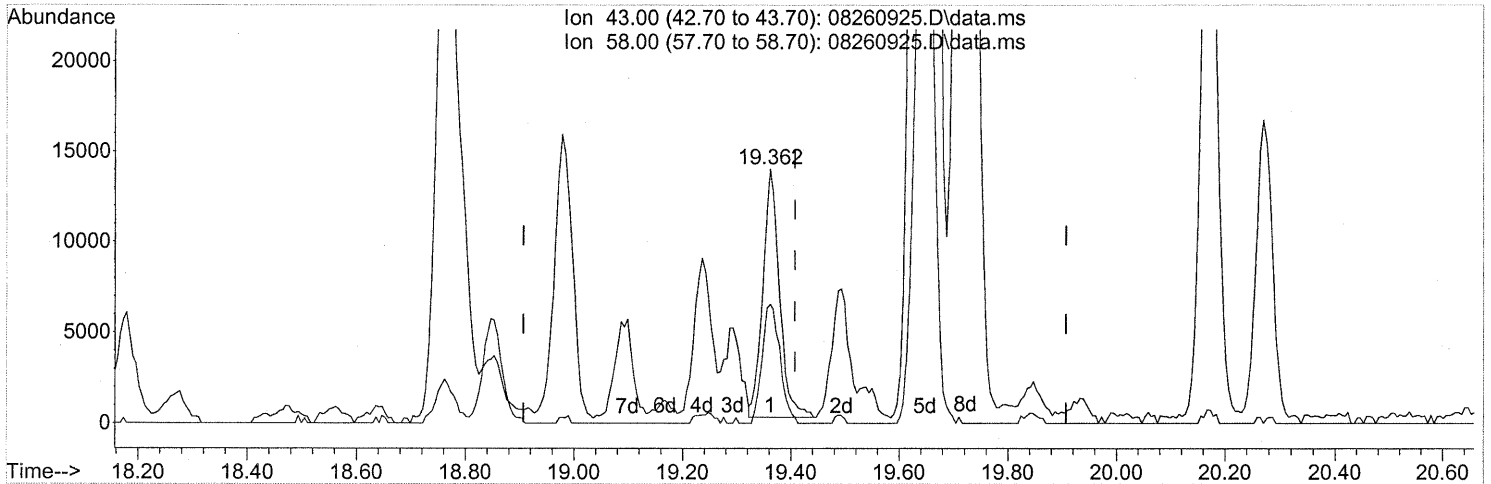
response 648322

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

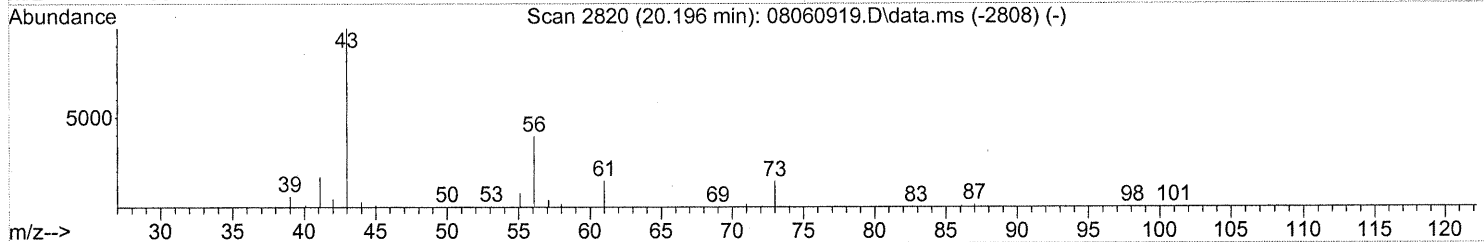
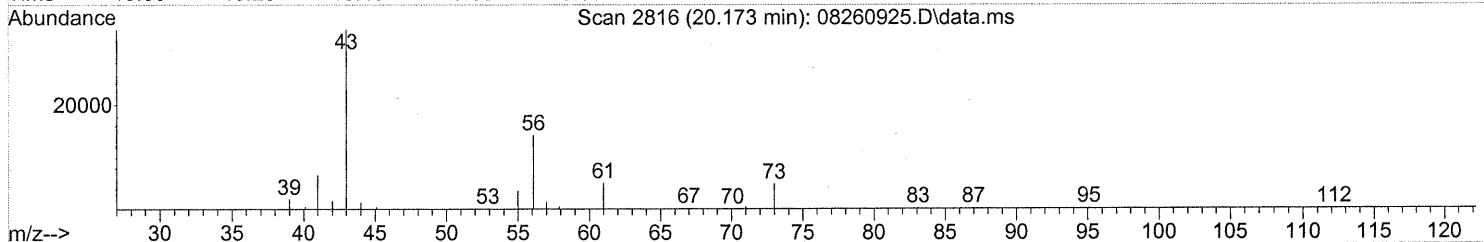
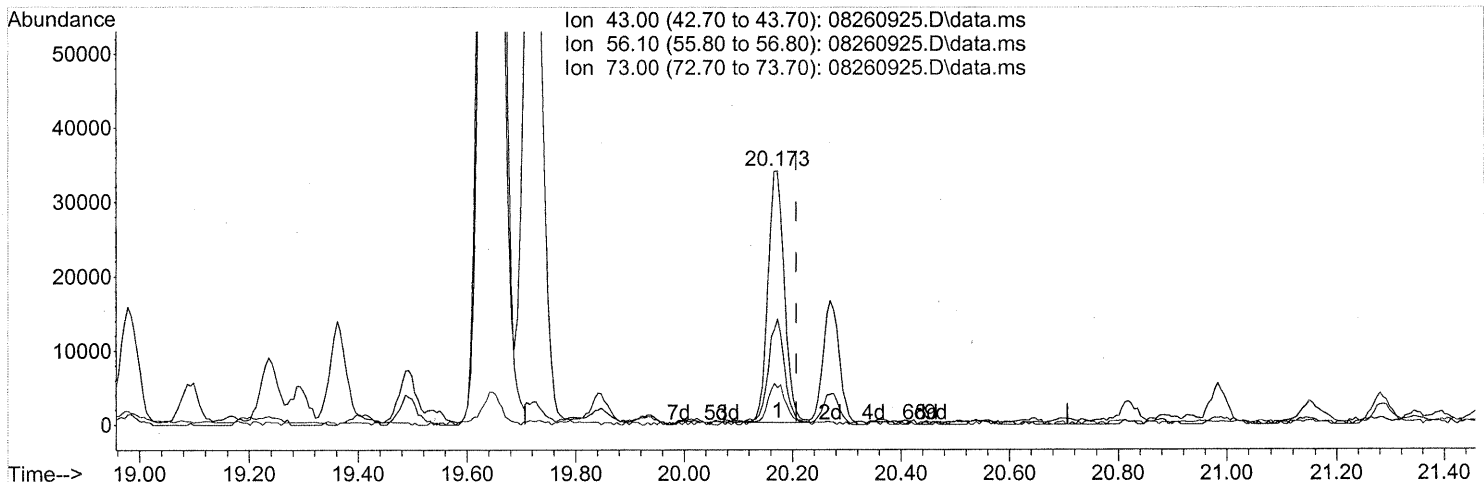
(59) 2-Hexanone (T)
 19.362min (-0.046) 0.75ng
 response 29430

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	51.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

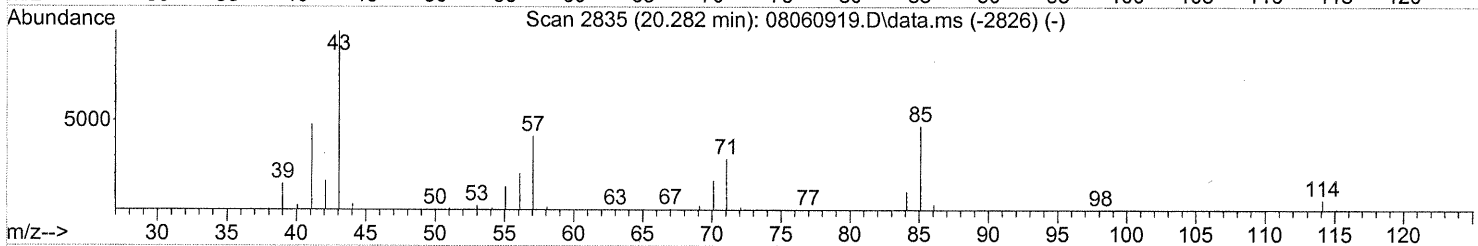
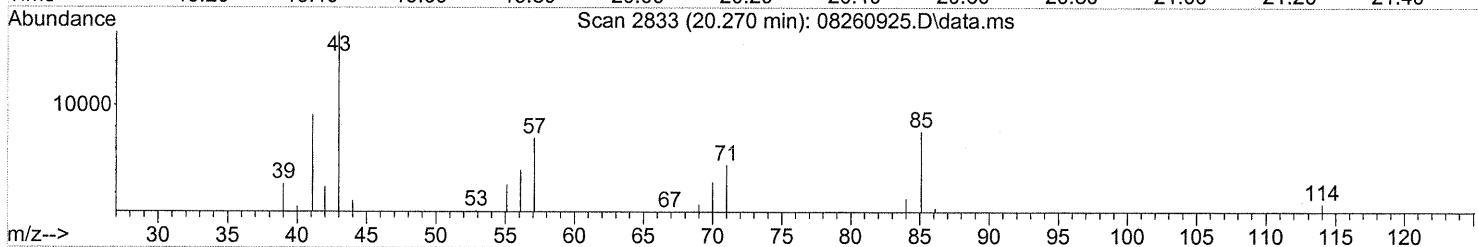
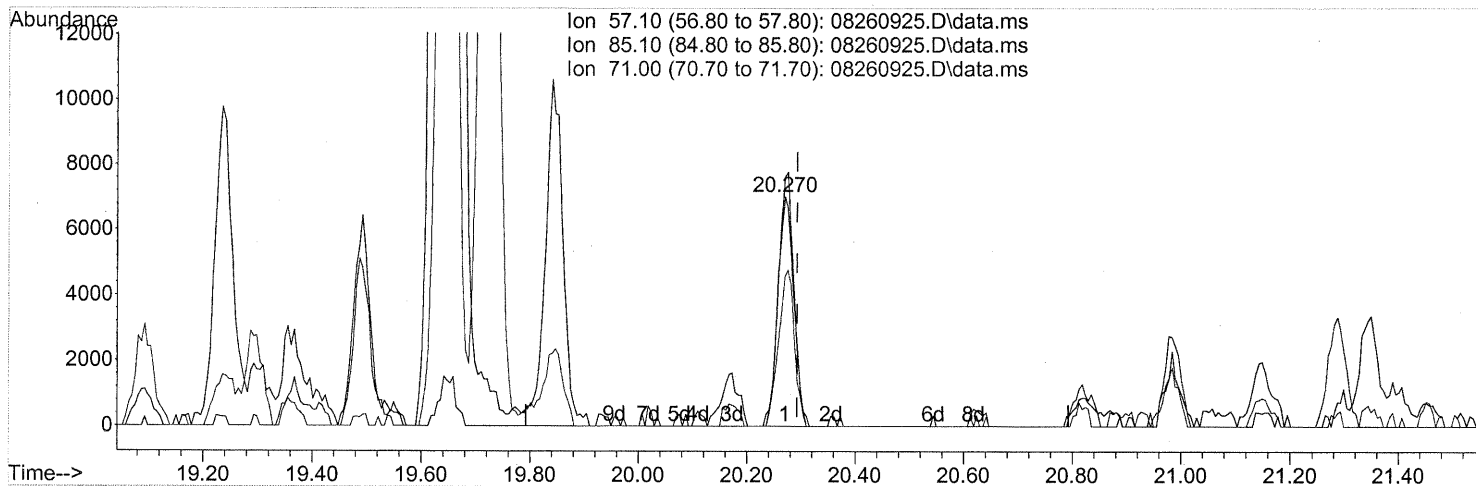
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 1.56ng
 response 71743

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.72
73.00	14.80	19.25
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

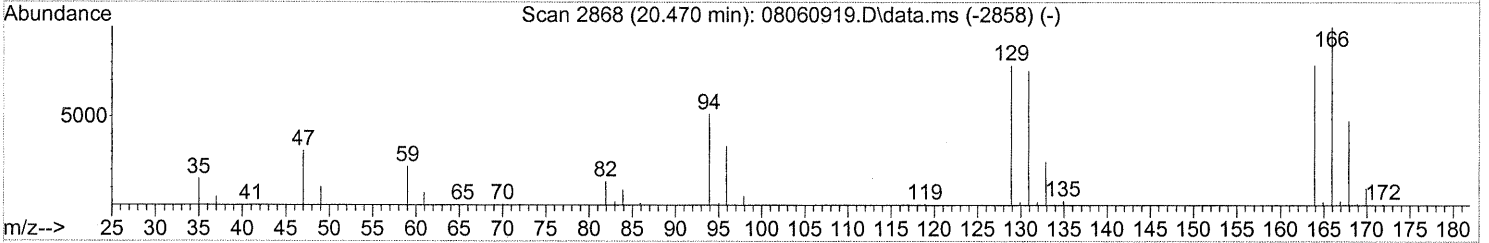
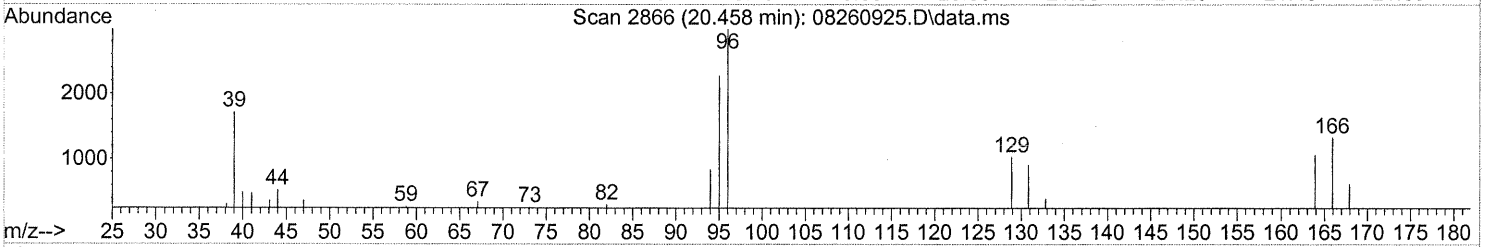
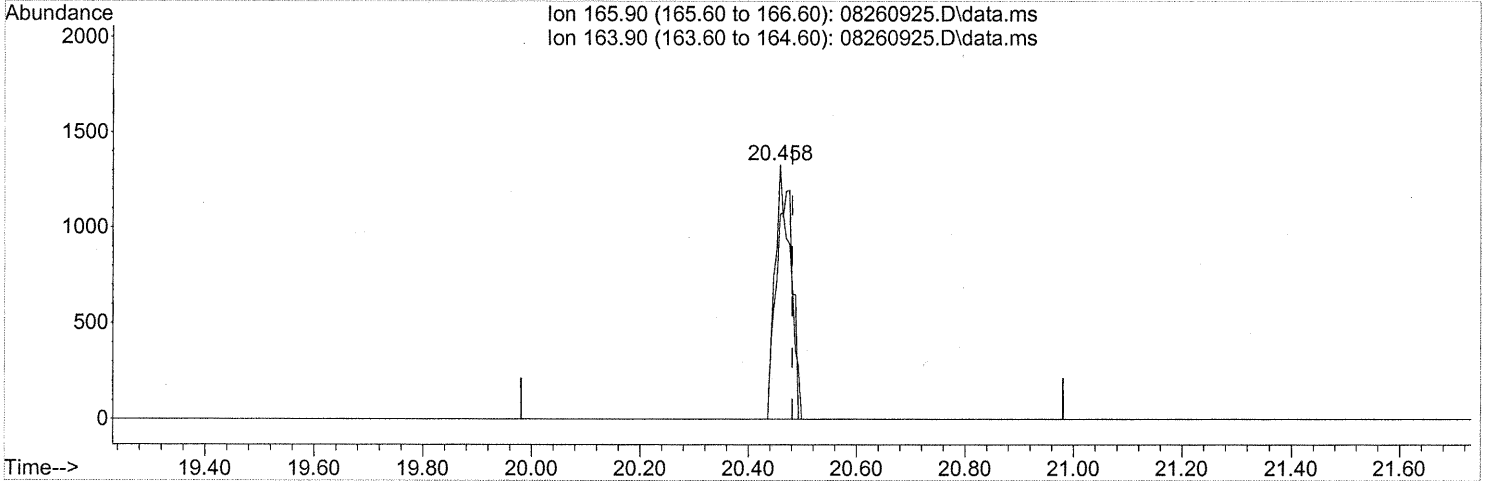
(63) n-Octane (T)
 20.270min (-0.023) 1.02ng
 response 14431

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	106.09
71.00	68.10	66.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260925.D
Acq On : 27 Aug 2009 6:39
Operator : WA/CC
Sample : P0902876-009 (1000mL)
Misc : Environmental Health 102473
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260925.D\data.ms

(64) Tetrachloroethene (T)

20.458min (-0.023) 0.20ng

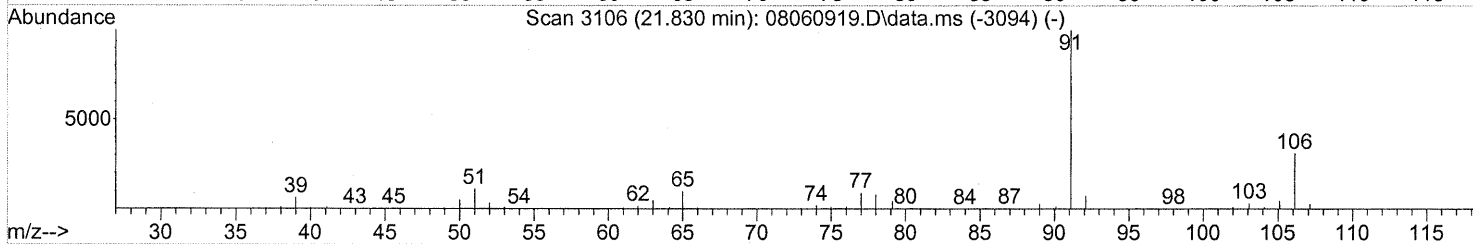
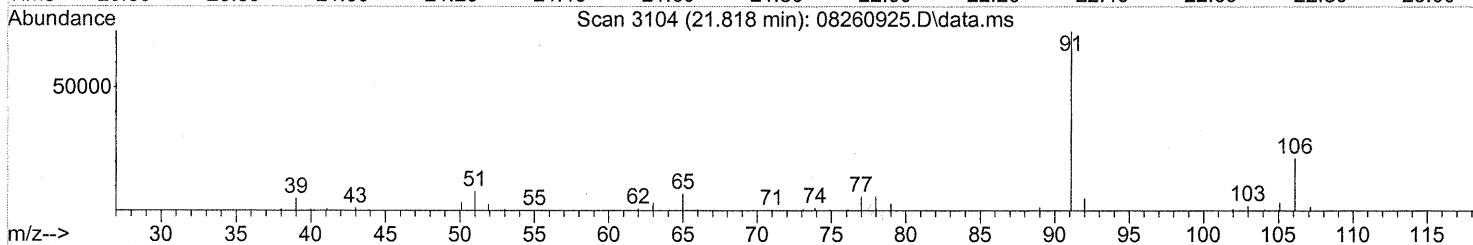
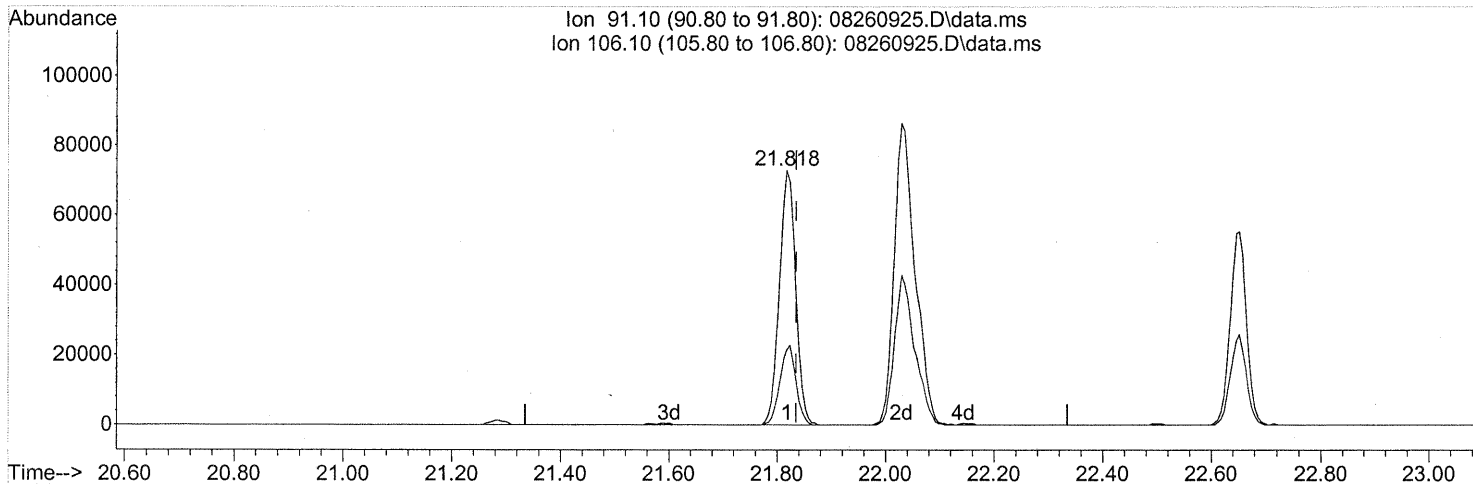
response 2757

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	87.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

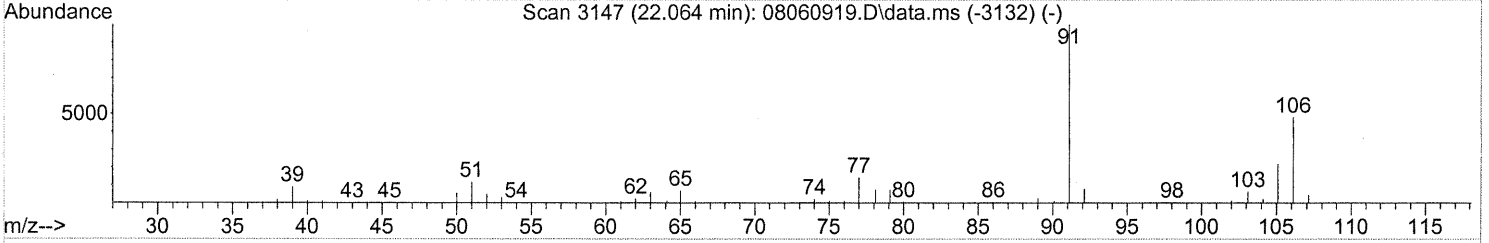
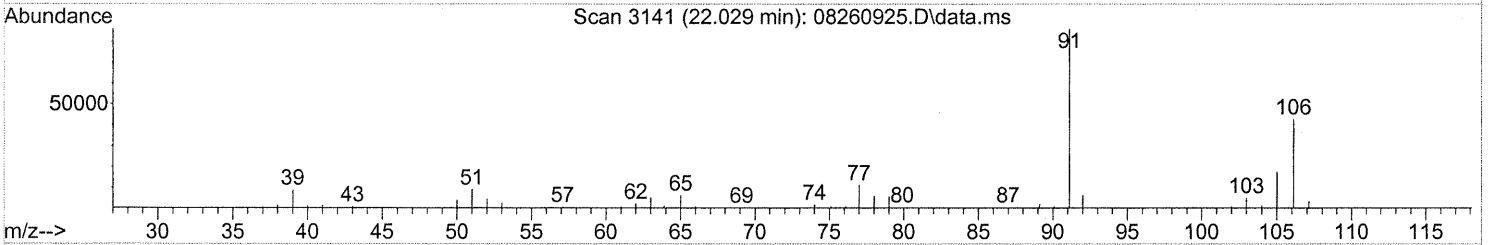
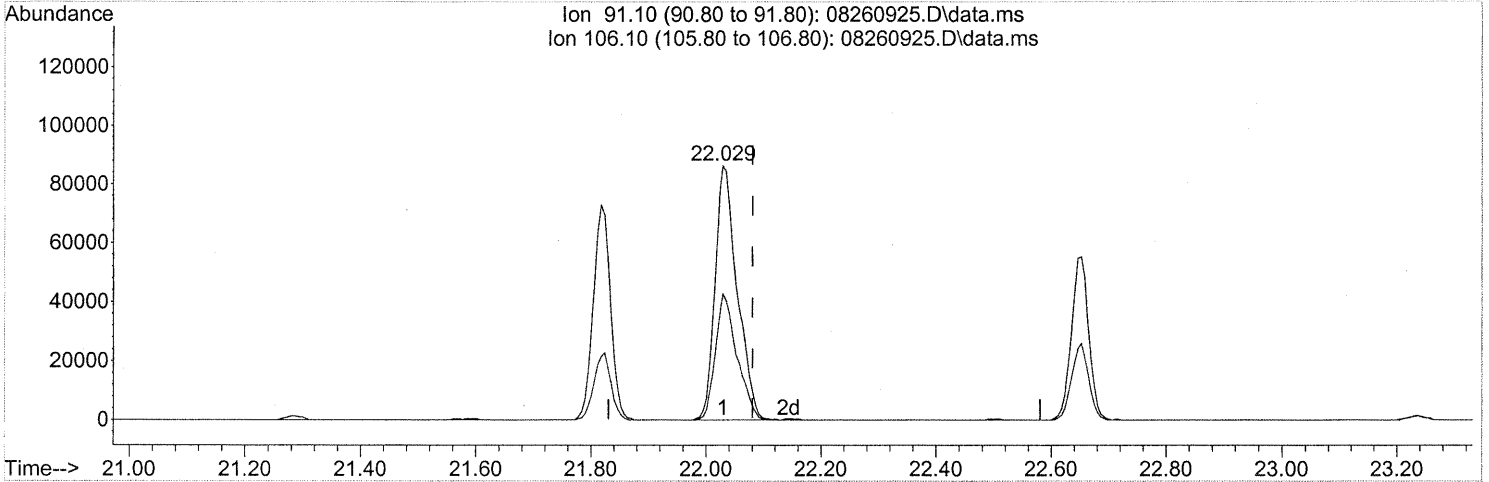
(66) Ethylbenzene (T)
 21.818min (-0.017) 2.25ng
 response 150899

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

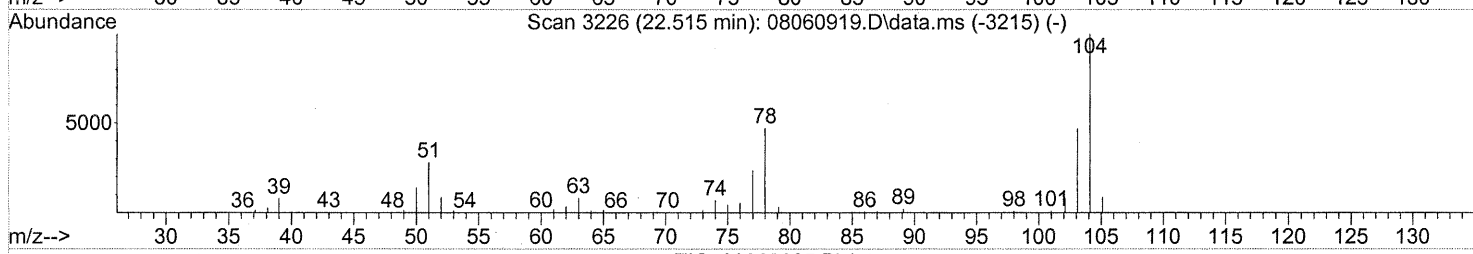
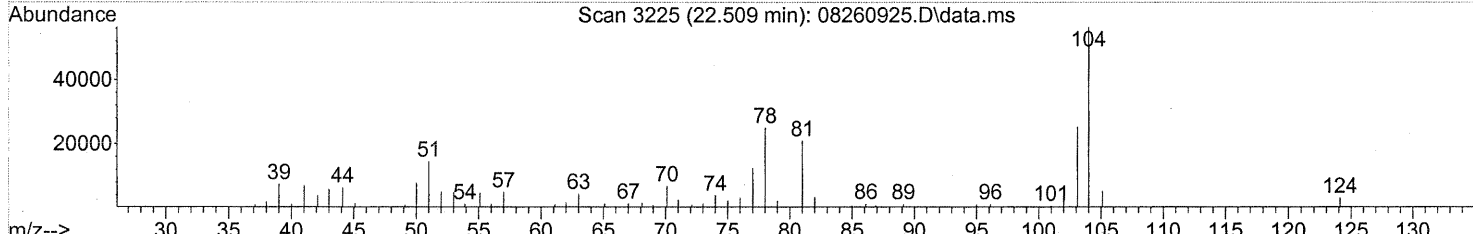
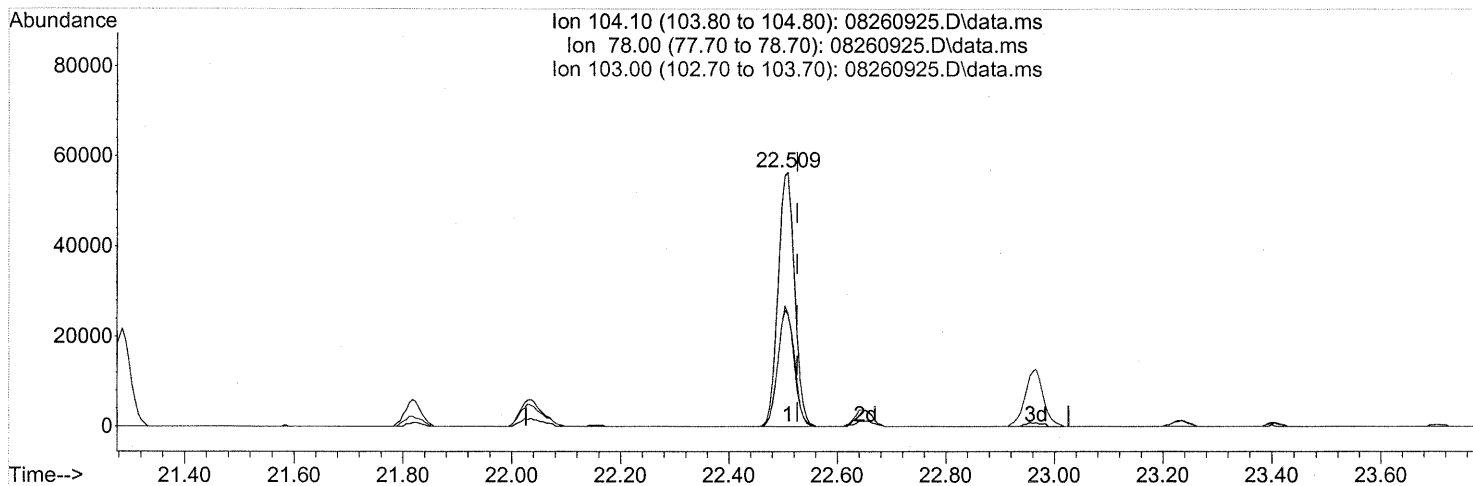
(67) m- & p-Xylenes (T)
 22.029min (-0.051) 4.24ng
 response 230239

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260925.D
Acq On : 27 Aug 2009 6:39
Operator : WA/CC
Sample : P0902876-009 (1000mL)
Misc : Environmental Health 102473
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260925.D\data.ms

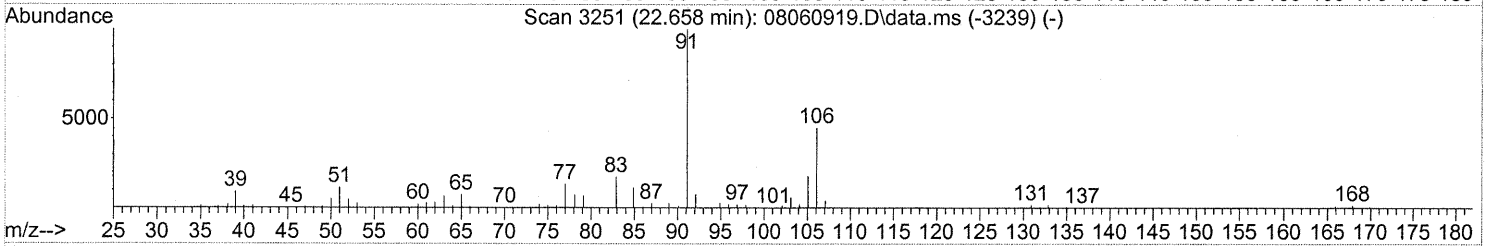
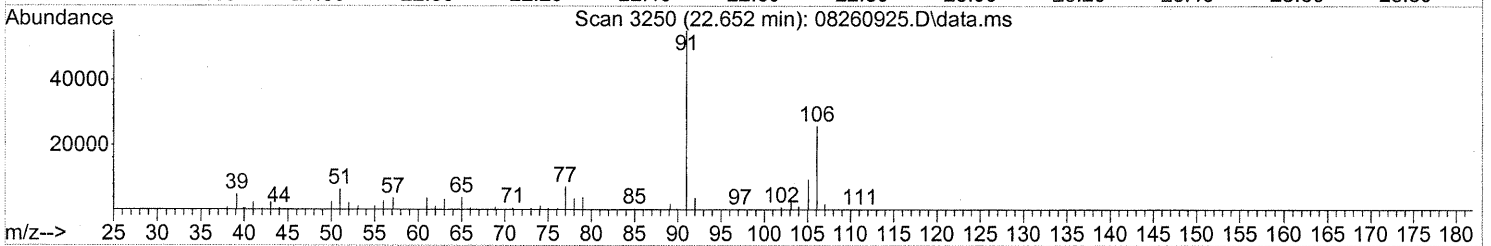
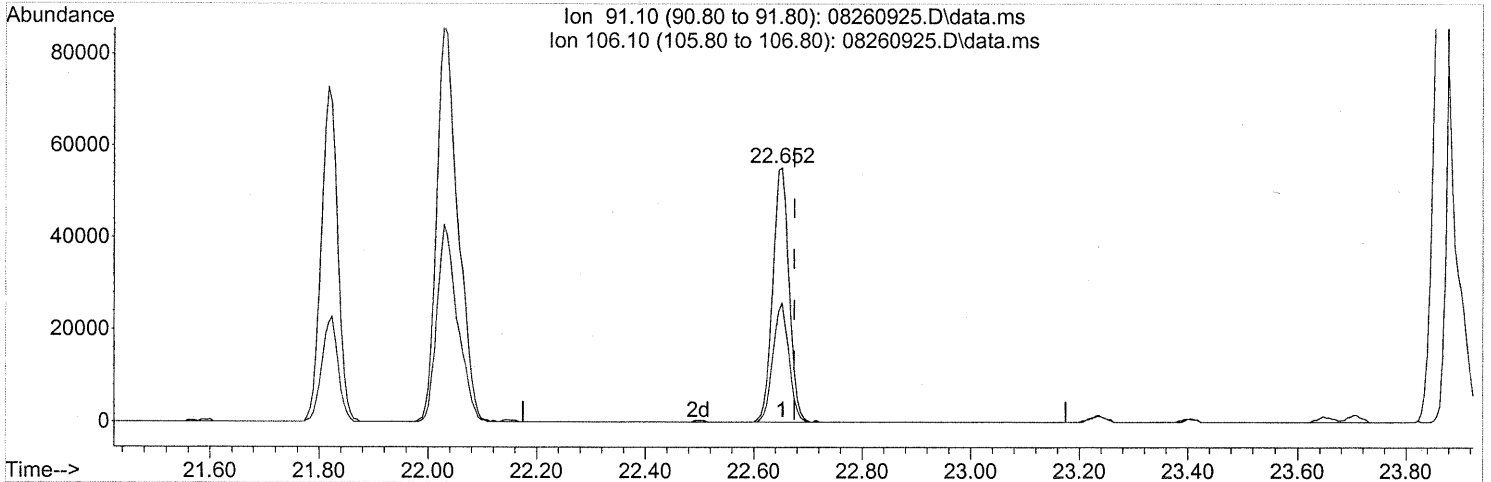
(69) Styrene (T)
22.509min (-0.017) 3.03ng
response 118897

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	45.24
103.00	46.20	46.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

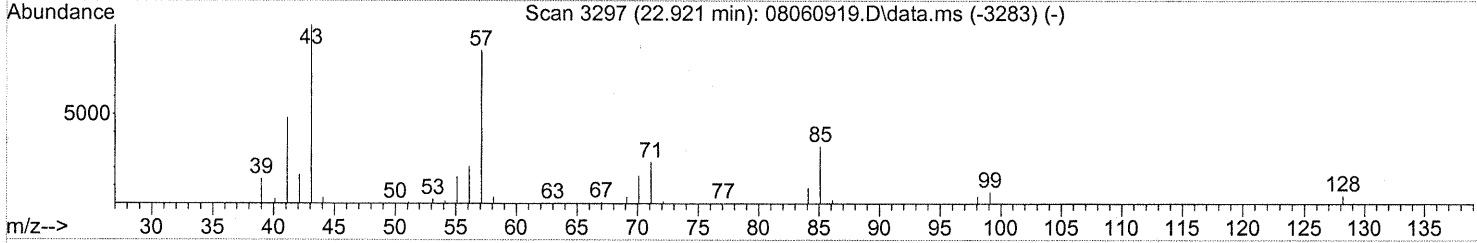
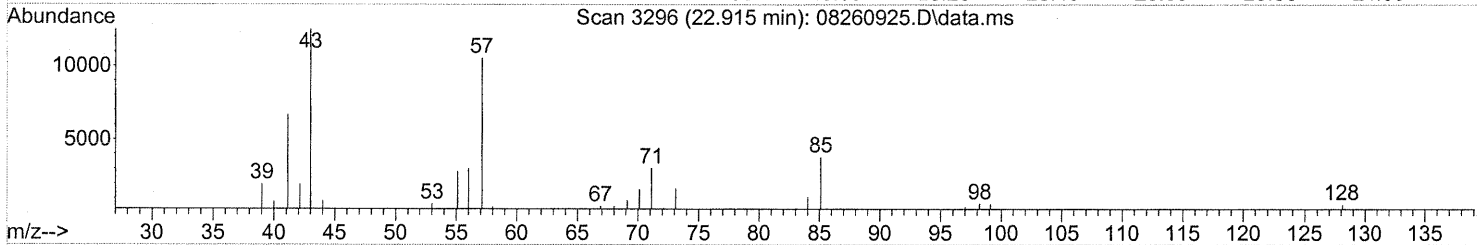
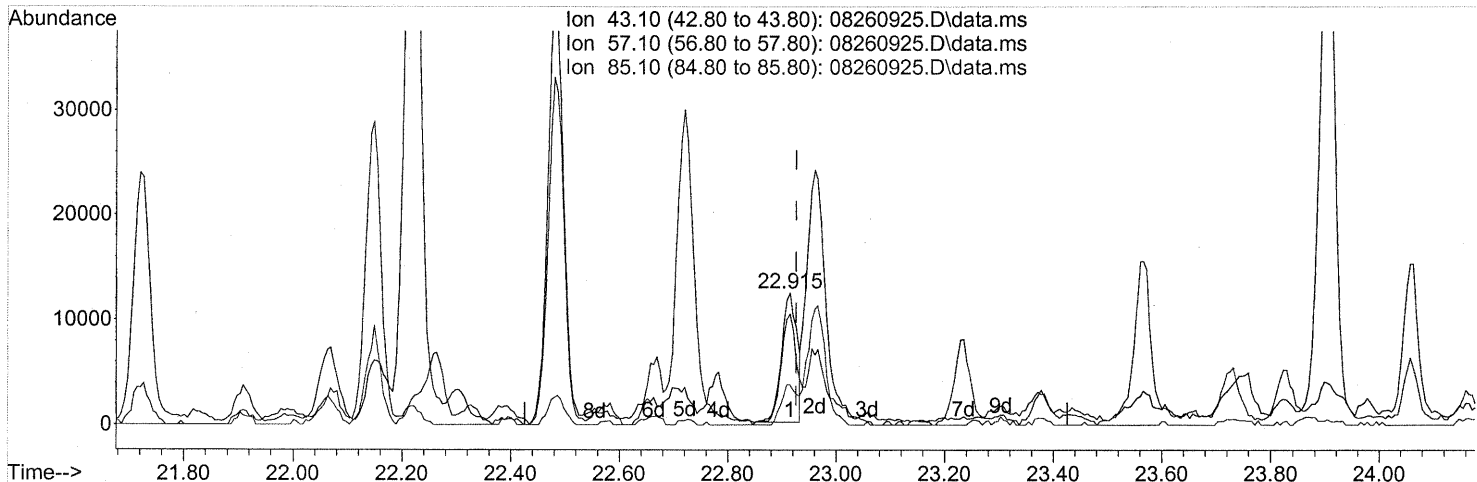
(70) o-Xylene (T)
 22.652min (-0.023) 2.11ng
 response 115181

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

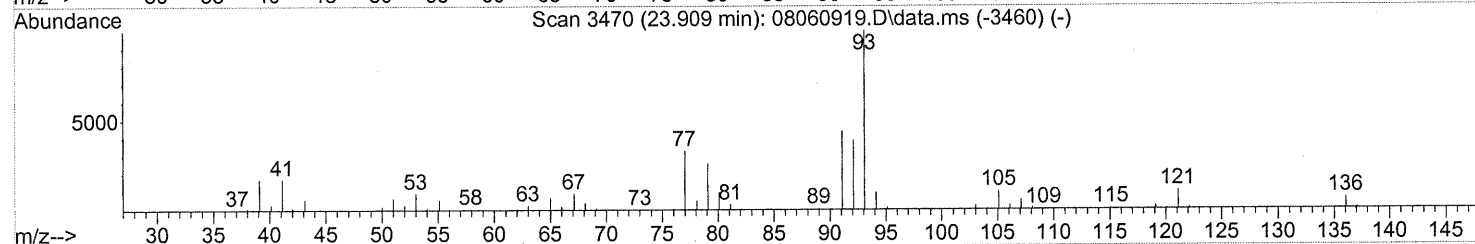
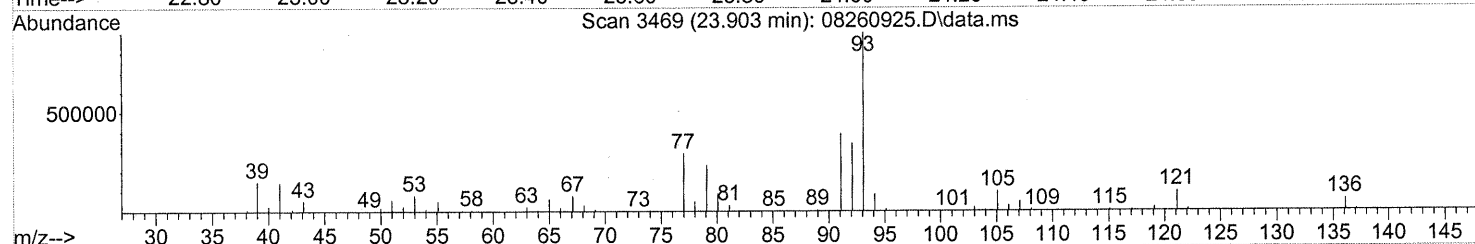
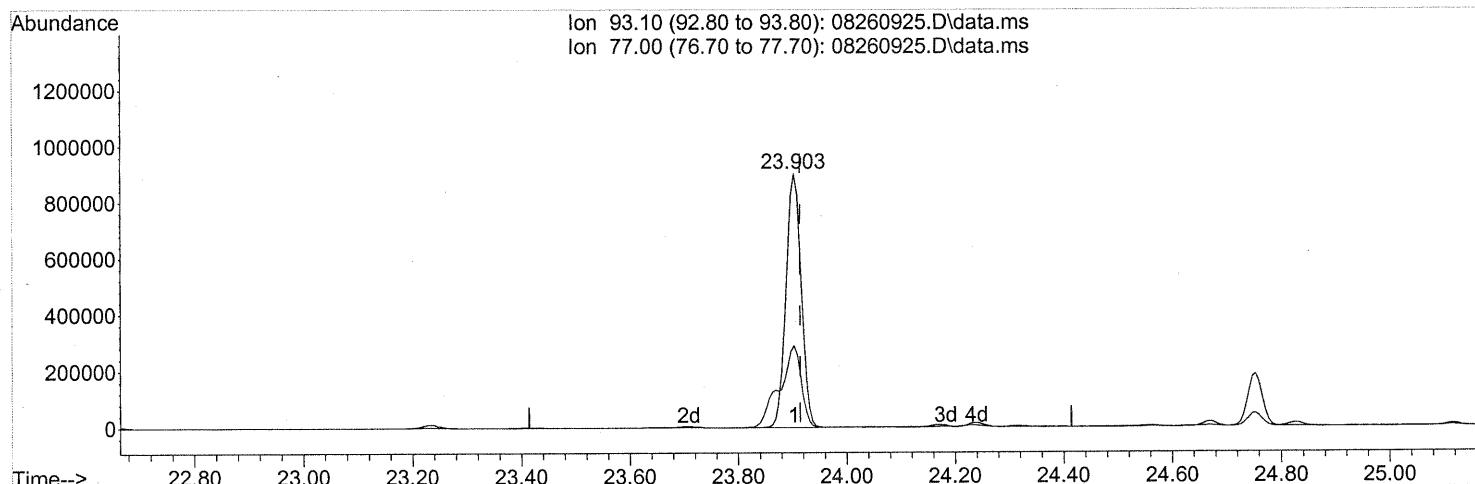
(71) n-Nonane (T)
 22.915min (-0.012) 0.67ng
 response 24175

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	96.17
85.10	30.40	32.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

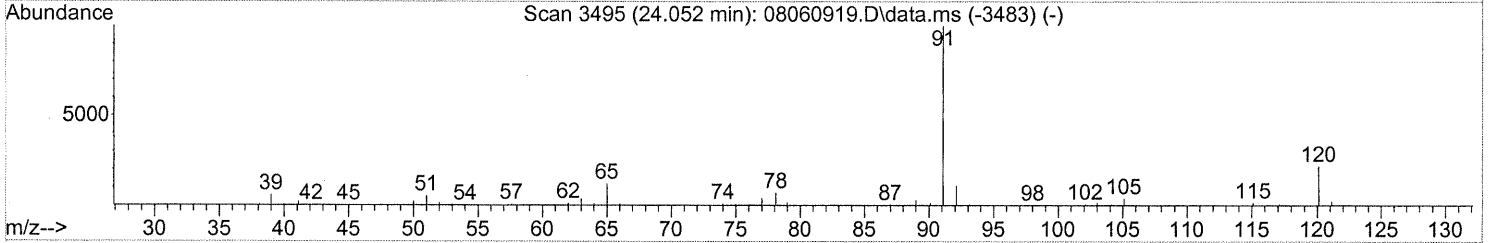
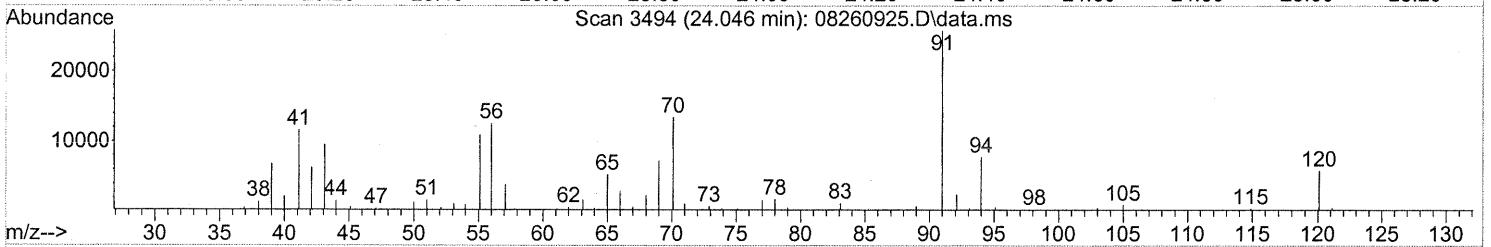
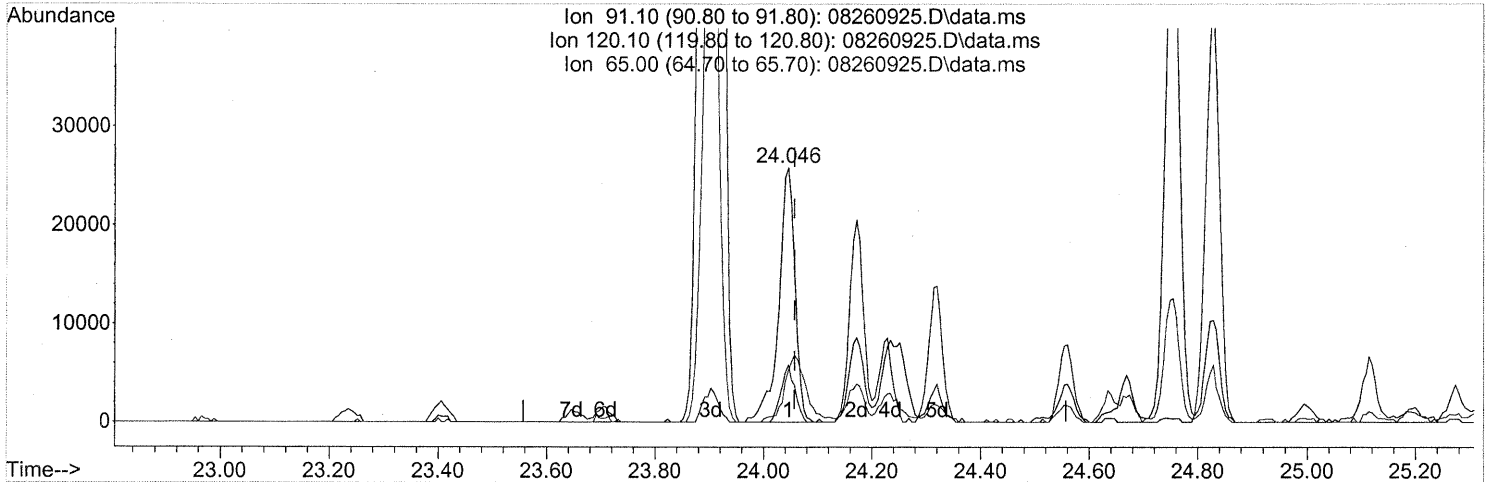
(75) alpha-Pinene (T)
 23.903min (-0.011) 49.81ng
 response 1756739

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	45.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.011) 0.62ng

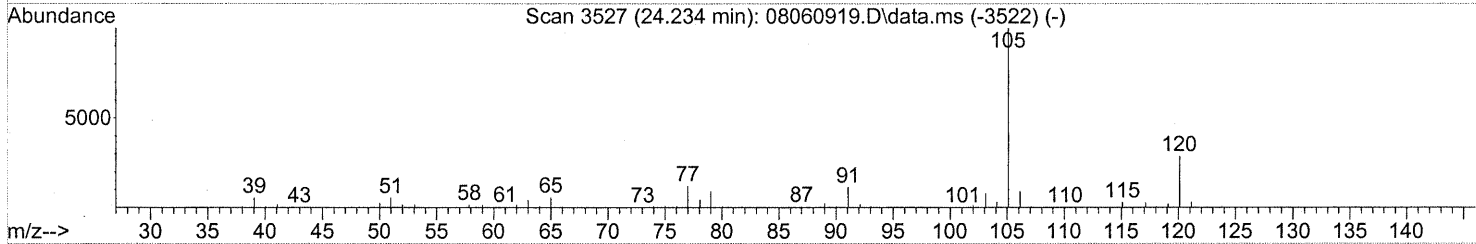
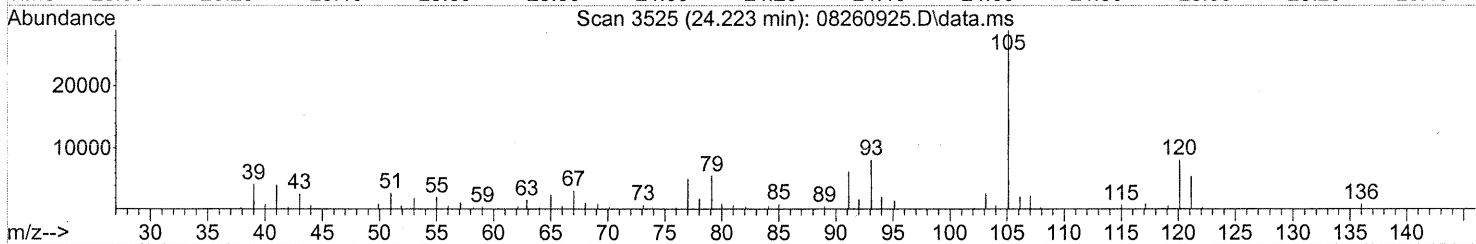
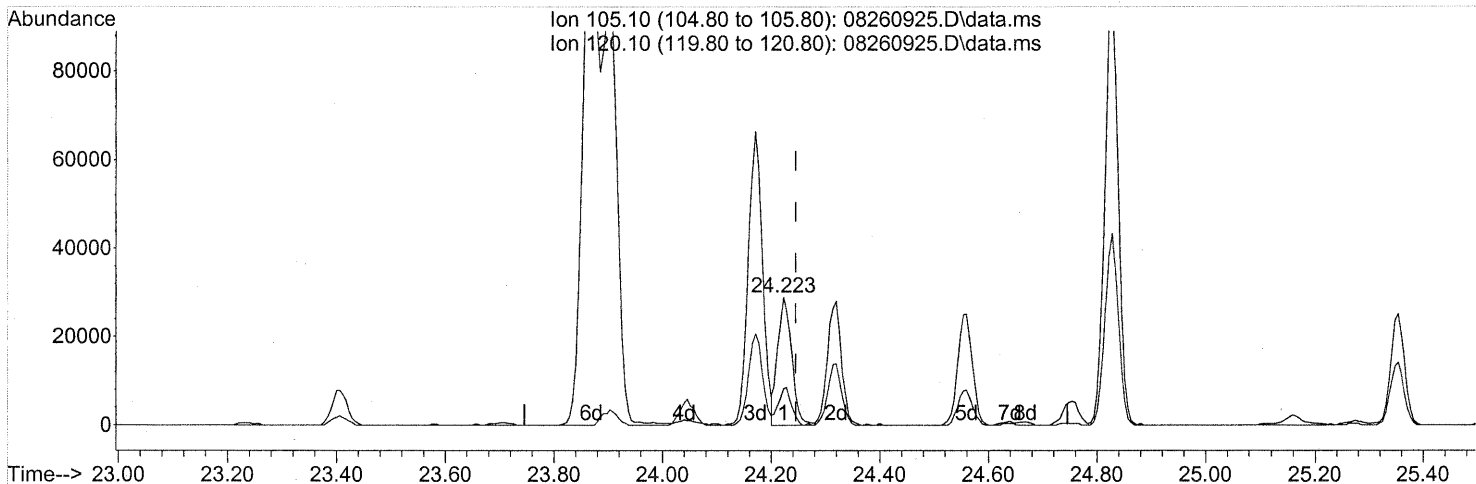
response 53878

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	19.14
65.00	12.00	34.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

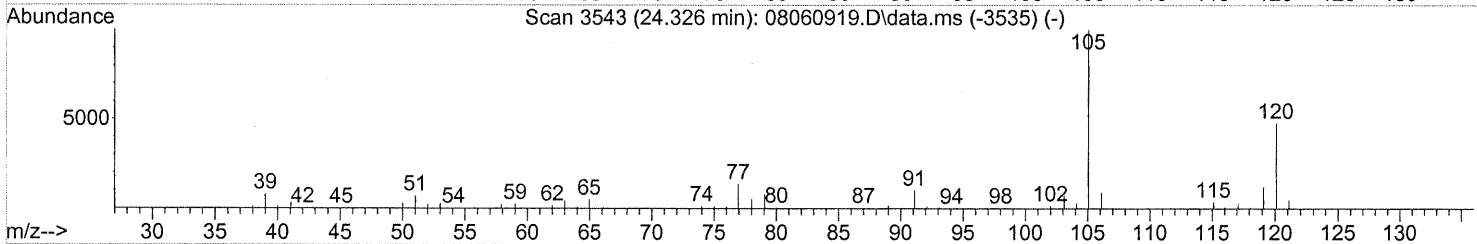
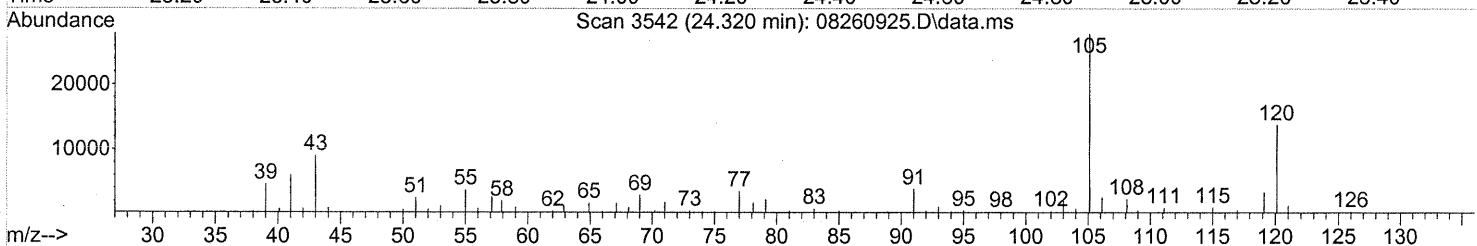
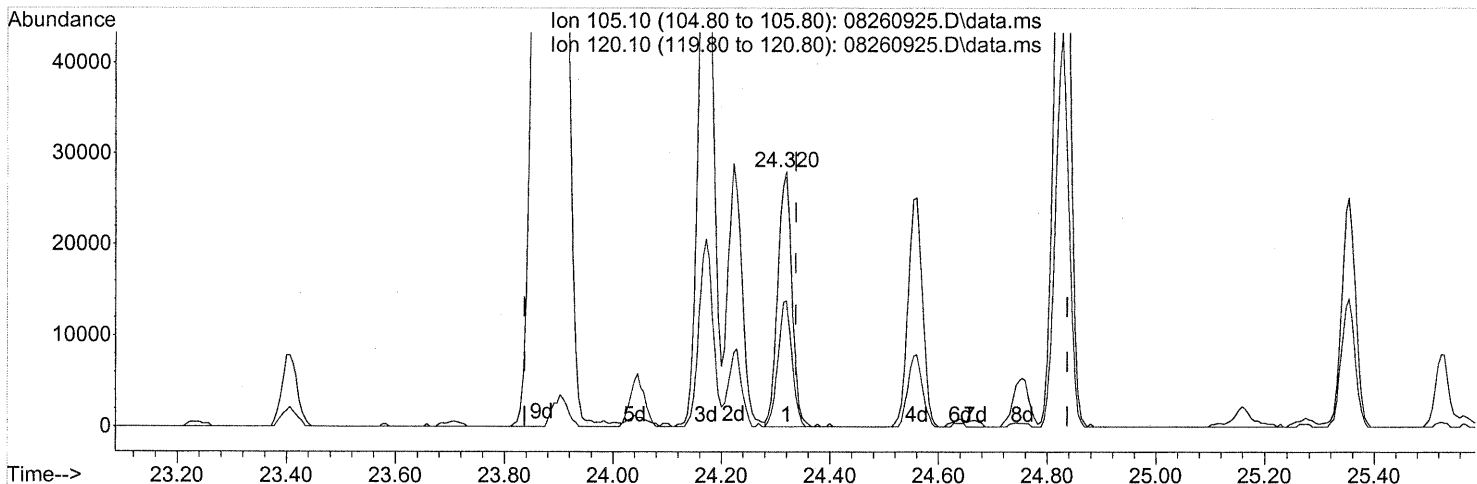
(78) 4-Ethyltoluene (T)
 24.223min (-0.023) 0.82ng
 response 51976

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	27.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08260925.D\data.ms

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

24.320min (-0.017) 0.94ng

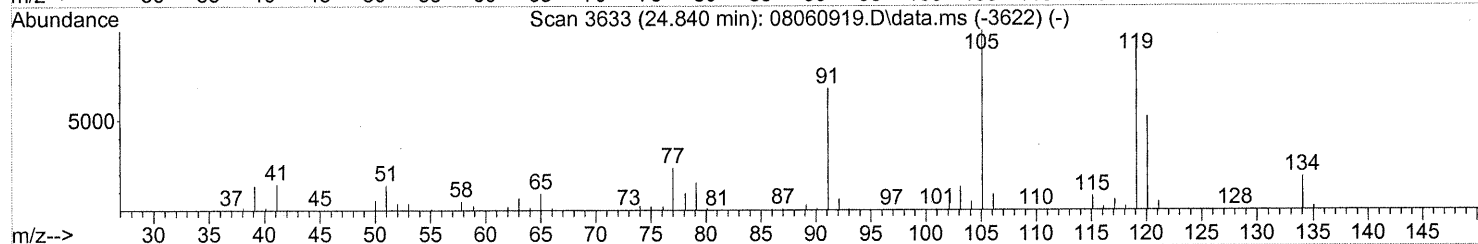
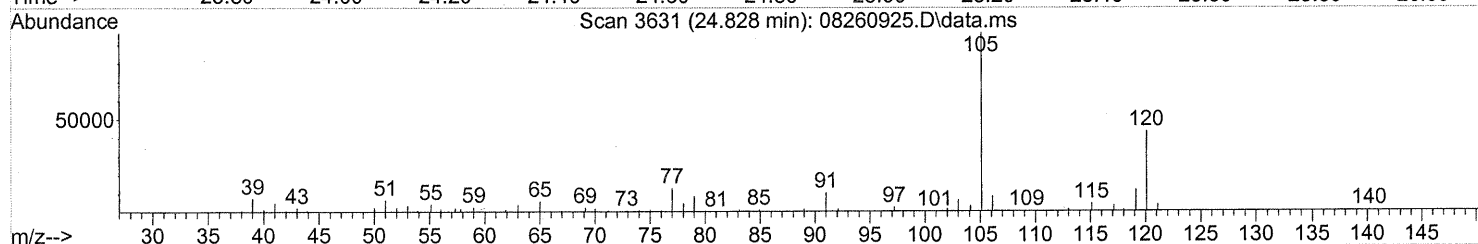
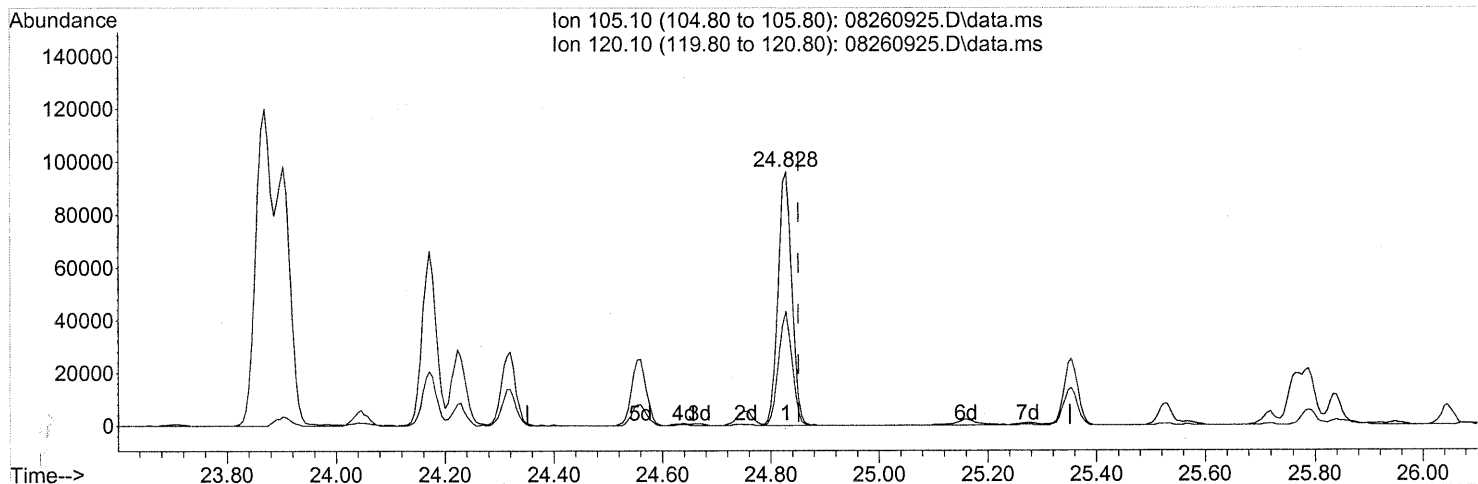
response 50518

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

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

24.828min (-0.023) 3.08ng

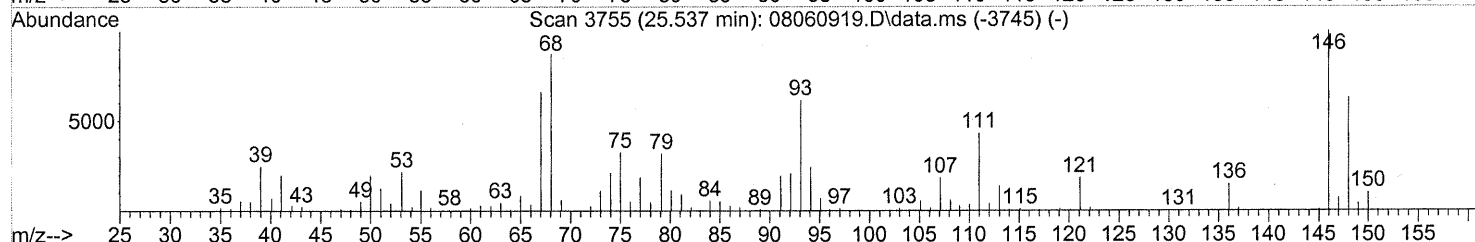
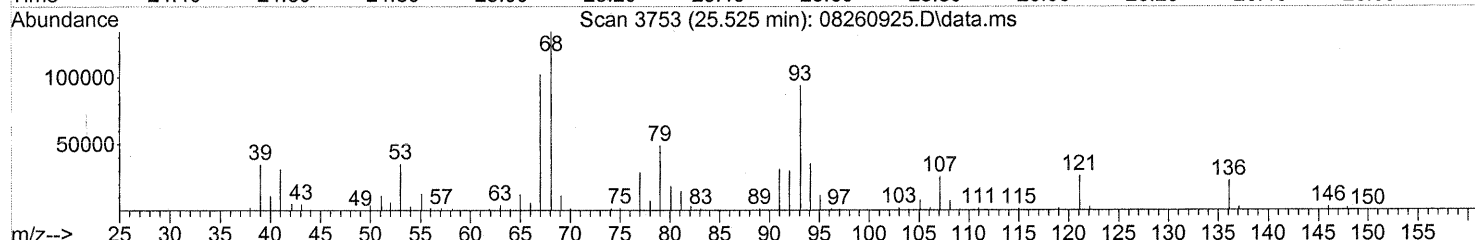
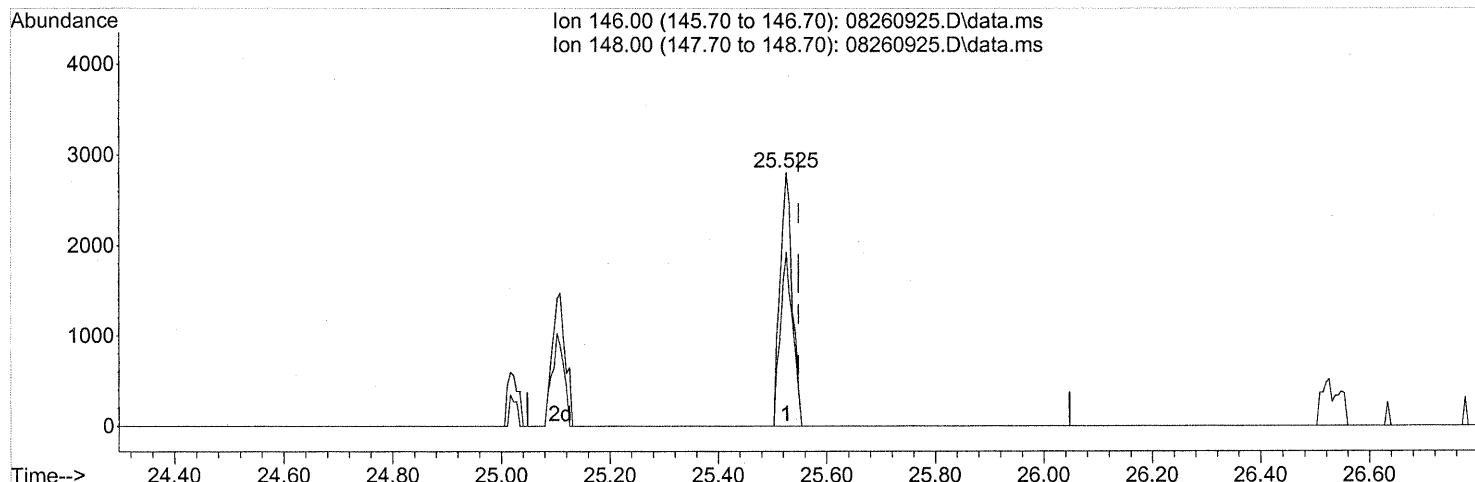
response 168774

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	44.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(90) 1,2-Dichlorobenzene (T)

25.525min (-0.023) 0.17ng

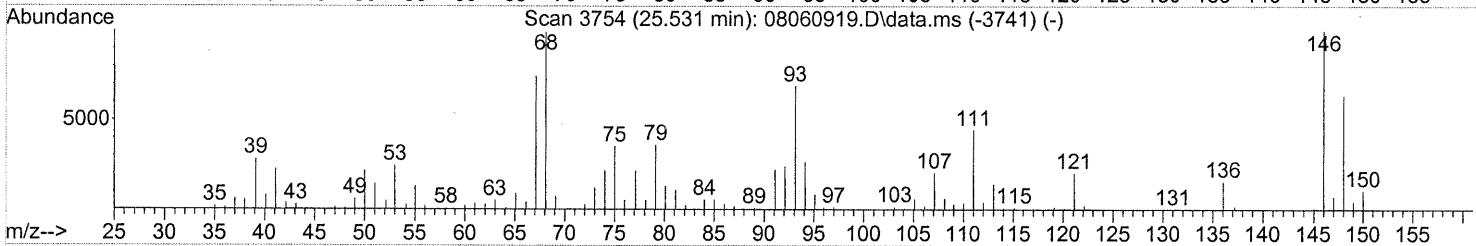
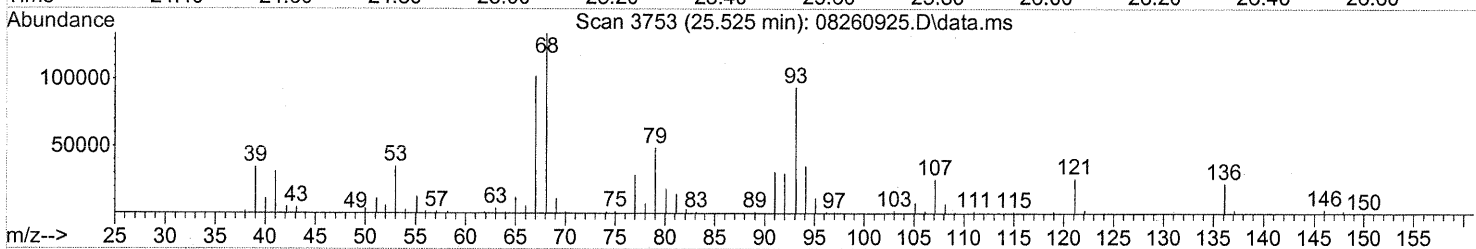
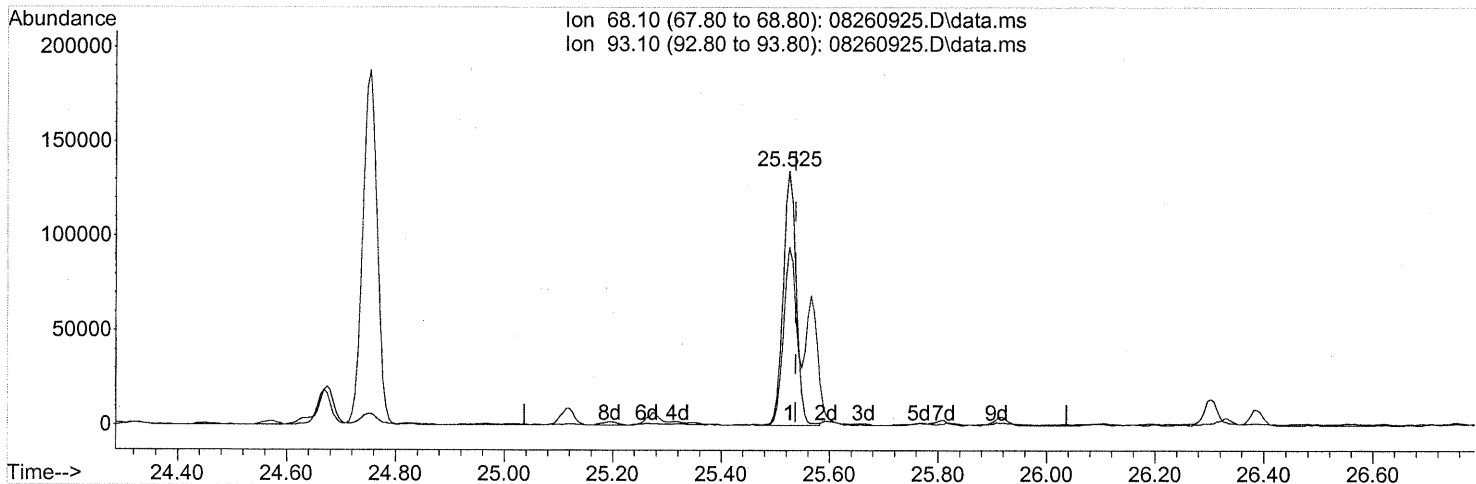
response 4360

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	69.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

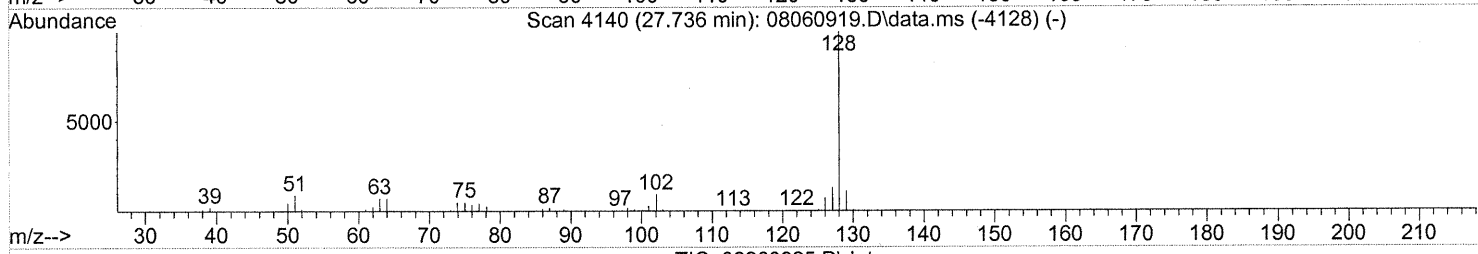
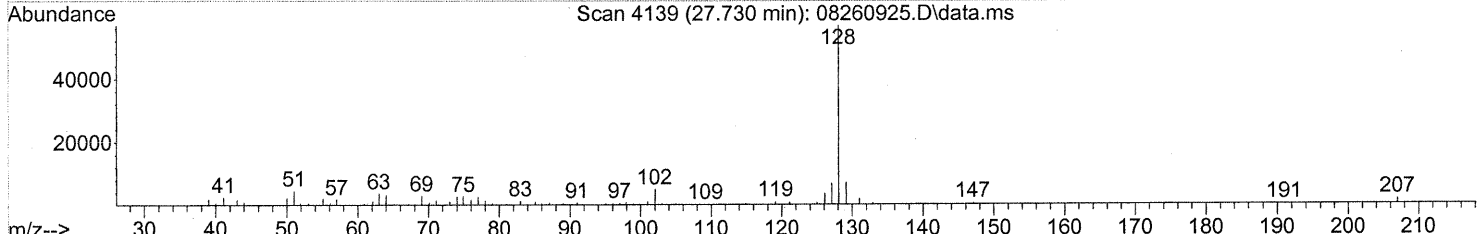
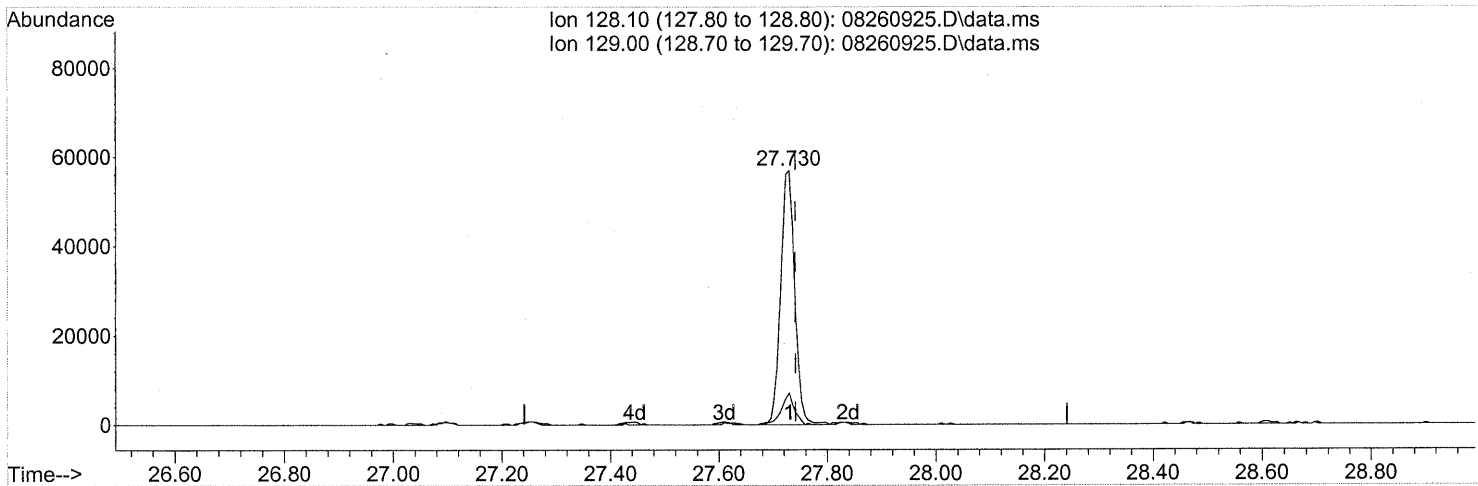
(91) d-Limonene (T)
 25.525min (-0.012) 9.55ng
 response 222559

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	72.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260925.D
 Acq On : 27 Aug 2009 6:39
 Operator : WA/CC
 Sample : P0902876-009 (1000mL)
 Misc : Environmental Health 102473
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 27 08:15:39 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260925.D\data.ms

(95) Naphthalene (T)
 27.730min (-0.011) 1.38ng
 response 102430

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.38
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: 102474
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00782

CAS Project ID: P0902876
CAS Sample ID: P0902876-010

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result		MRL		Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.82	ND	0.47	
75-71-8	Dichlorodifluoromethane (CFC 12)	3.0	0.82	0.61	0.16	
74-87-3	Chloromethane	1.2	0.16	0.57	0.079	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.16	ND	0.064	
106-99-0	1,3-Butadiene	ND	0.16	ND	0.074	
74-83-9	Bromomethane	ND	0.16	ND	0.042	
75-00-3	Chloroethane	ND	0.16	ND	0.062	
64-17-5	Ethanol	120	8.2	66	4.3	
75-05-8	Acetonitrile	200	0.82	120	0.49	E
107-02-8	Acrolein	6.7	0.82	2.9	0.36	
67-64-1	Acetone	150	8.2	64	3.4	
75-69-4	Trichlorofluoromethane	1.4	0.16	0.25	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	10	0.82	4.1	0.33	
107-13-1	Acrylonitrile	ND	0.82	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.16	ND	0.041	
75-09-2	Methylene Chloride	ND	0.82	ND	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.052	
76-13-1	Trichlorotrifluoroethane	0.64	0.16	0.083	0.021	
75-15-0	Carbon Disulfide	9.9	0.82	3.2	0.26	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	ND	0.041	
75-34-3	1,1-Dichloroethane	ND	0.16	ND	0.040	
1634-04-4	Methyl tert-Butyl Ether	0.54	0.16	0.15	0.045	
108-05-4	Vinyl Acetate	ND	8.2	ND	2.3	
78-93-3	2-Butanone (MEK)	6.3	0.82	2.2	0.28	

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: 9/8/09 **432**
TO15scan.xls - 75 Compounds - PageNo.:

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102474
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00782

CAS Project ID: P0902876
CAS Sample ID: P0902876-010

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	ND	0.041	
141-78-6	Ethyl Acetate	1.5	0.82	0.42	0.23	
110-54-3	n-Hexane	10	0.82	2.9	0.23	
67-66-3	Chloroform	0.23	0.16	0.048	0.033	
109-99-9	Tetrahydrofuran (THF)	0.96	0.82	0.32	0.28	
107-06-2	1,2-Dichloroethane	3.4	0.16	0.84	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.030	
71-43-2	Benzene	2.3	0.16	0.72	0.051	
56-23-5	Carbon Tetrachloride	0.57	0.16	0.090	0.026	
110-82-7	Cyclohexane	1.8	0.82	0.52	0.24	
78-87-5	1,2-Dichloropropane	ND	0.16	ND	0.035	
75-27-4	Bromodichloromethane	ND	0.16	ND	0.024	
79-01-6	Trichloroethene	ND	0.16	ND	0.030	
123-91-1	1,4-Dioxane	ND	0.82	ND	0.23	
80-62-6	Methyl Methacrylate	ND	0.82	ND	0.20	
142-82-5	n-Heptane	3.2	0.82	0.77	0.20	
10061-01-5	cis-1,3-Dichloropropene	1.9	0.82	0.43	0.18	
108-10-1	4-Methyl-2-pentanone	0.88	0.82	0.21	0.20	
10061-02-6	trans-1,3-Dichloropropene	1.5	0.82	0.33	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.030	
108-88-3	Toluene	20	0.82	5.4	0.22	
591-78-6	2-Hexanone	1.7	0.82	0.41	0.20	
124-48-1	Dibromochloromethane	ND	0.16	ND	0.019	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.021	
123-86-4	n-Butyl Acetate	3.1	0.82	0.65	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

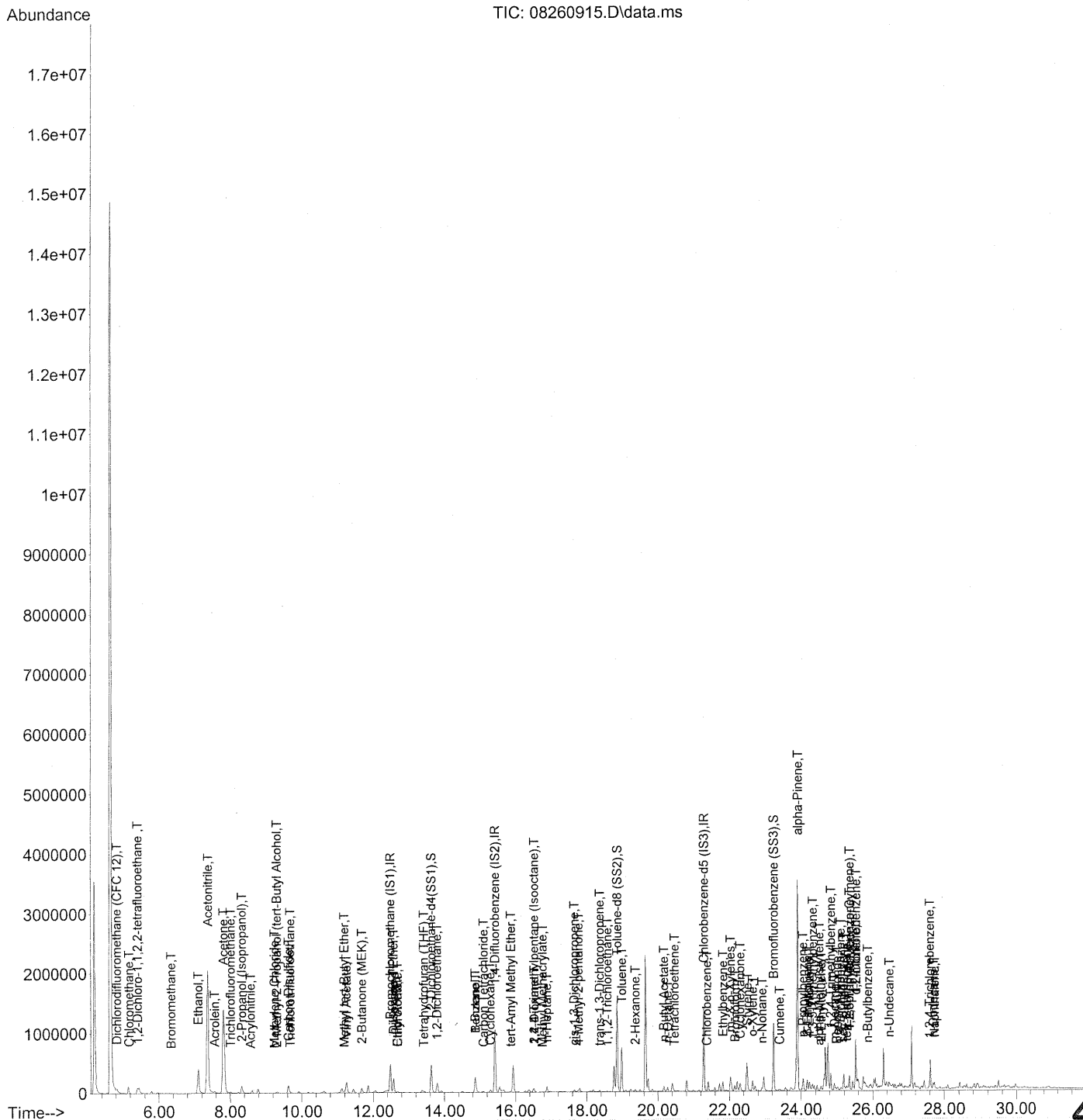
Date: _____

9/8/09

433

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 8:09 pm
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 17:04:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 8:09 pm
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 17:04:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

m 9/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	241879	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1208117	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	579717	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	470593	22.384	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.52%	✓
57) Toluene-d8 (SS2)	18.85	98	1315799	25.976	ng	-0.02
Spiked Amount	25.000		Recovery	=	103.92%	✓
73) Bromofluorobenzene (SS3)	23.23	174	364962	27.321	ng	-0.01
Spiked Amount	25.000		Recovery	=	109.28%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	0.00	42	0	N.D.	d	
3) Dichlorodifluoromethan...	4.82	85	50266	1.853	ng	100
4) Chloromethane	5.17	50	13259	0.727	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	711	0.065	ng	# 44
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	216	N.D.		
8) Bromomethane	6.35	94	966	0.091	ng	98
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.10	45	806639	76.668	ng	100
11) Acetonitrile	7.38	41	3802444	123.407	ng	100
12) Acrolein	7.57	56	32803	4.096	ng	99
13) Acetone	7.81	58	930770	93.760	ng	96
14) Trichlorofluoromethane	8.01	101	20834	0.849	ng	97
15) 2-Propanol (Isopropanol)	8.33	45	238578m	6.116	ng	
16) Acrylonitrile	8.57	53	1023	0.057	ng	# 9
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.30	59	9654	0.279	ng	# 1
19) Methylene Chloride	9.24	84	1739	0.130	ng	100
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D.	d	
21) Trichlorotrifluoroethane	9.67	151	3488	0.391	ng	92
22) Carbon Disulfide	9.63	76	286388	6.093	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	11.19	73	12468	0.332	ng	96
26) Vinyl Acetate	11.24	86	16658	8.246	ng	67
27) 2-Butanone (MEK)	11.68	72	34859	3.889	ng	95
28) cis-1,2-Dichloroethene	12.34	61	99	N.D.		
29) Diisopropyl Ether	12.57	87	1505	0.125	ng	# 1
30) Ethyl Acetate	12.68	61	4350	0.932	ng	89
31) n-Hexane	12.57	57	151091	6.325	ng	100

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9/1/09

436

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 8:09 pm
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 17:04:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	3025	0.144	ng	97
34) Tetrahydrofuran (THF)	13.42	72	5608	0.587	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	40121	2.088	ng	96
38) 1,1,1-Trichloroethane	14.17	97	233	N.D.		
39) Isopropyl Acetate	14.87	61	197	N.D.		
40) 1-Butanol	14.87	56	174219	11.111	ng	79
41) Benzene	14.87	78	74872	1.410	ng	99
42) Carbon Tetrachloride	15.10	117	5901	0.349	ng	94
43) Cyclohexane	15.29	84	21443	1.102	ng	97
44) tert-Amyl Methyl Ether	15.87	73	2606	0.065	ng #	61
45) 1,2-Dichloropropane	15.94	63	91	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.52	88	1386	0.137	ng #	1
49) 2,2,4-Trimethylpentane...	16.52	57	54651	0.874	ng # NOT NEEDED	80
50) Methyl Methacrylate	16.76	100	516	0.106	ng #	1
51) n-Heptane	16.88	71	27600	1.936	ng	98
52) cis-1,3-Dichloropropene	17.65	75	26196	1.185	ng	100
53) 4-Methyl-2-pentanone	17.76	58	6899	0.540	ng	94
54) trans-1,3-Dichloropropene	18.36	75	19187	0.913	ng	100
55) 1,1,2-Trichloroethane	18.57	97	648	0.056	ng #	1
58) Toluene	18.98	91	621970	12.494	ng	99
59) 2-Hexanone	19.36	43	33715	1.018	ng	97
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	73474	1.883	ng	96
63) n-Octane	20.27	57	14456	1.201	ng	98
64) Tetrachloroethene	20.46	166	2756	0.239	ng	98
65) Chlorobenzene	21.37	112	1915	0.062	ng #	43
66) Ethylbenzene	21.82	91	149228	2.622	ng	99
67) m- & p-Xylenes	22.03	91	216769	4.709	ng	98
68) Bromoform	22.16	173	522	0.053	ng #	29
69) Styrene	22.50	104	118539	3.563	ng	99
70) o-Xylene	22.65	91	108822	2.358	ng	98
71) n-Nonane	22.91	43	23467	0.765	ng	97
72) 1,1,2,2-Tetrachloroethane	22.65	83	284	N.D.		
74) Cumene	23.40	105	15882	0.272	ng	98
75) alpha-Pinene	23.90	93	1665055	55.714	ng	81
76) n-Propylbenzene	24.05	91	49654	0.677	ng #	65
77) 3-Ethyltoluene	24.17	105	108515	1.948	ng	100
78) 4-Ethyltoluene	24.23	105	46382	0.859	ng	97
79) 1,3,5-Trimethylbenzene	24.31	105	46721	1.026	ng	97

437

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 8:09 pm
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 17:04:03 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

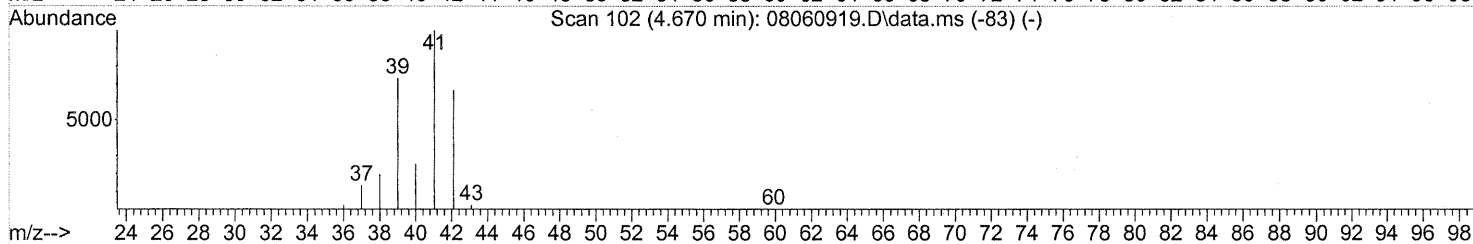
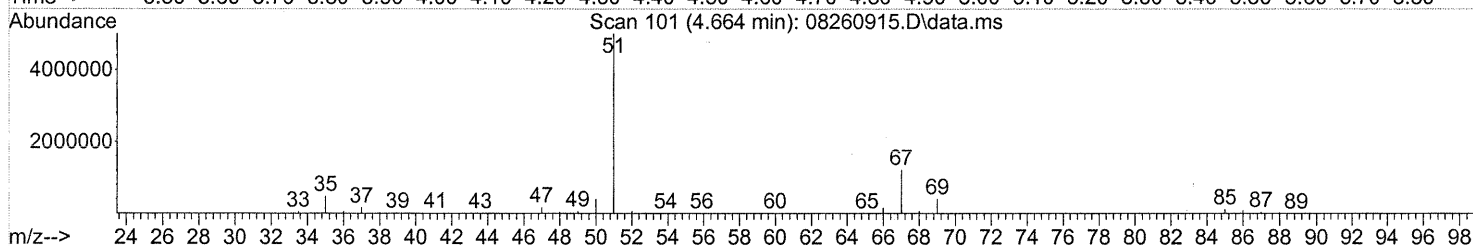
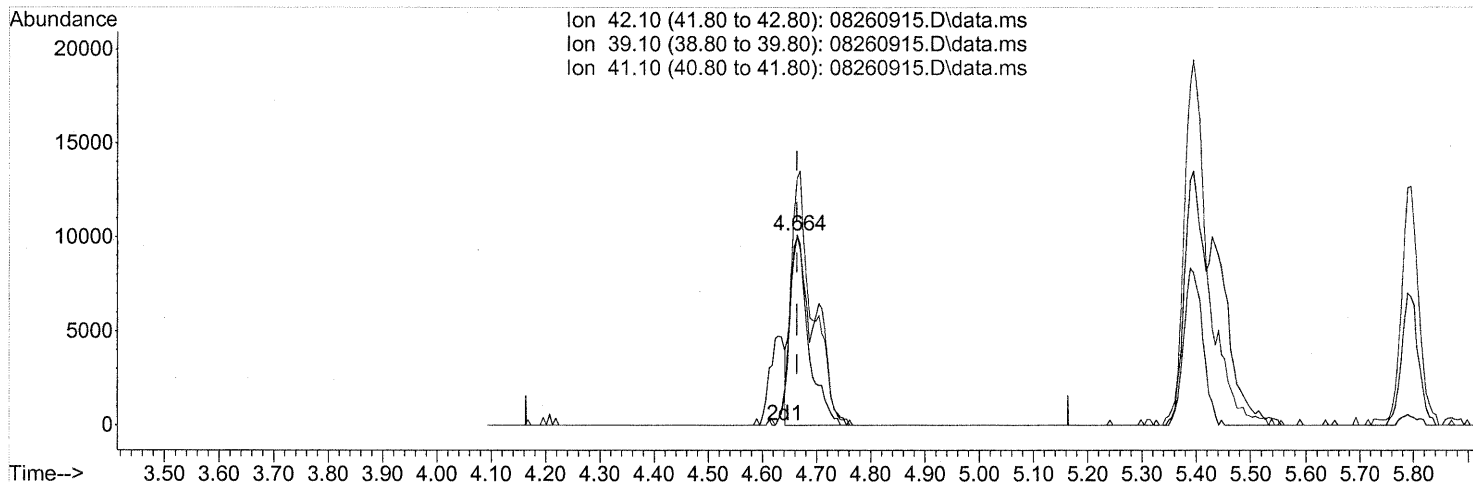
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	2149	0.088	ng	97
81) 2-Ethyltoluene	24.56	105	43038	0.766	ng	100
82) 1,2,4-Trimethylbenzene	24.82	105	151780	3.269	ng	89
83) n-Decane	24.93	57	52559	1.741	ng	87
84) Benzyl Chloride	24.99	91	2291	0.053	ng	77
85) 1,3-Dichlorobenzene	25.02	146	96	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1787	0.071	ng	90
87) sec-Butylbenzene	25.17	105	4520	0.072	ng	# 73
88) 4-Isopropyltoluene (p-...	25.35	119	81885	1.464	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	42140	0.891	ng	86
90) 1,2-Dichlorobenzene	25.53	146	3632	0.163	ng	92
91) d-Limonene	25.53	68	210056	10.637	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	32373	1.008	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	901	0.059	ng	# 84
95) Naphthalene	27.72	128	83302	1.321	ng	97
96) n-Dodecane	27.69	57	35719	0.957	ng	97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	72589	3.519	ng	94
99) tert-Butylbenzene	25.27	119	5466	0.122	ng	93
100) n-Butylbenzene	25.86	91	18384	0.355	ng	# 45

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 01 14:39:23 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(2) Propene (T)

4.664min (+0.000) 1.43ng

response 23667

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	139.33#
41.10	150.20	159.06
0.00	0.00	0.00

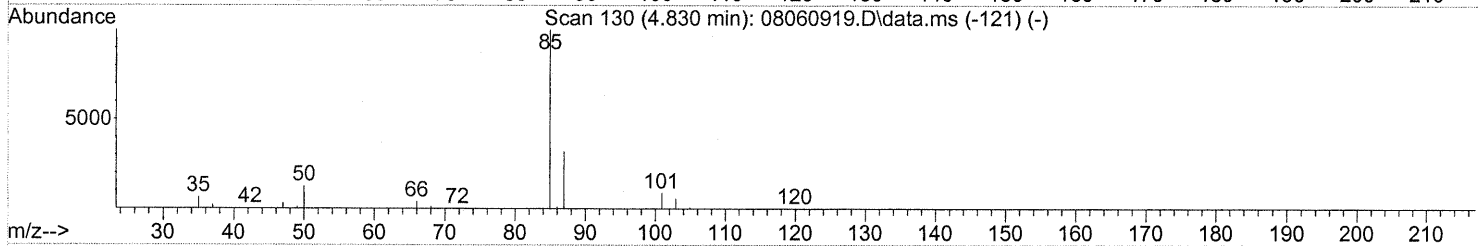
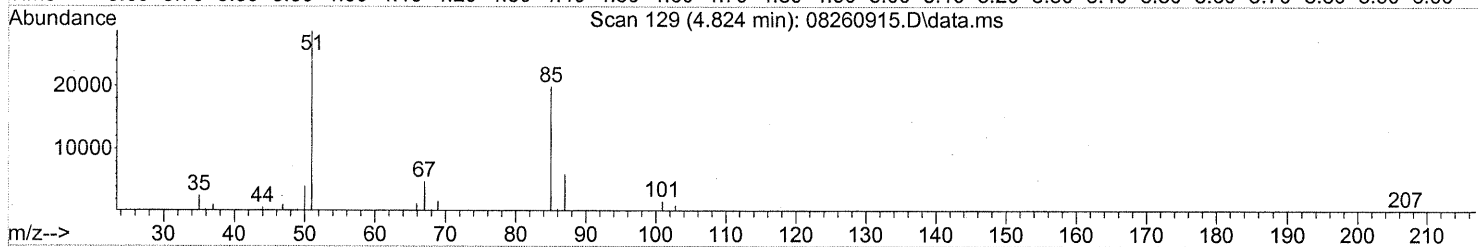
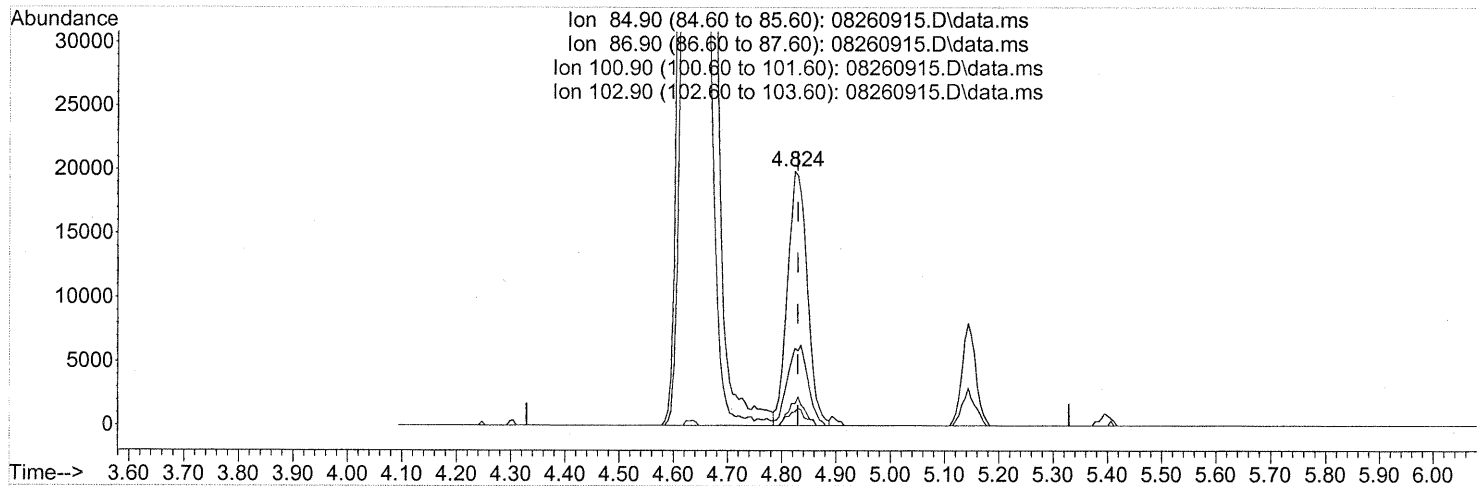
FP
11/9/09

9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (-0.006) 1.85ng

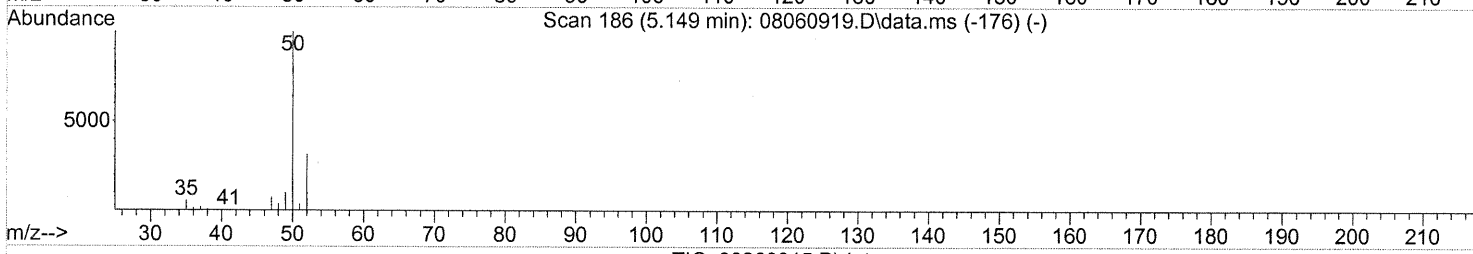
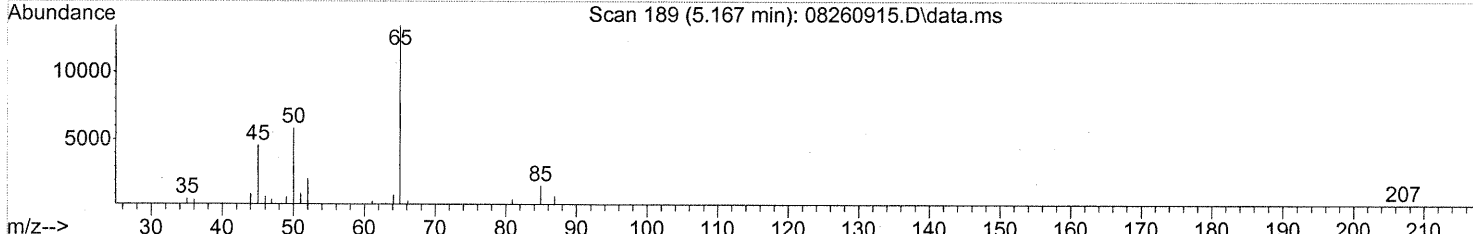
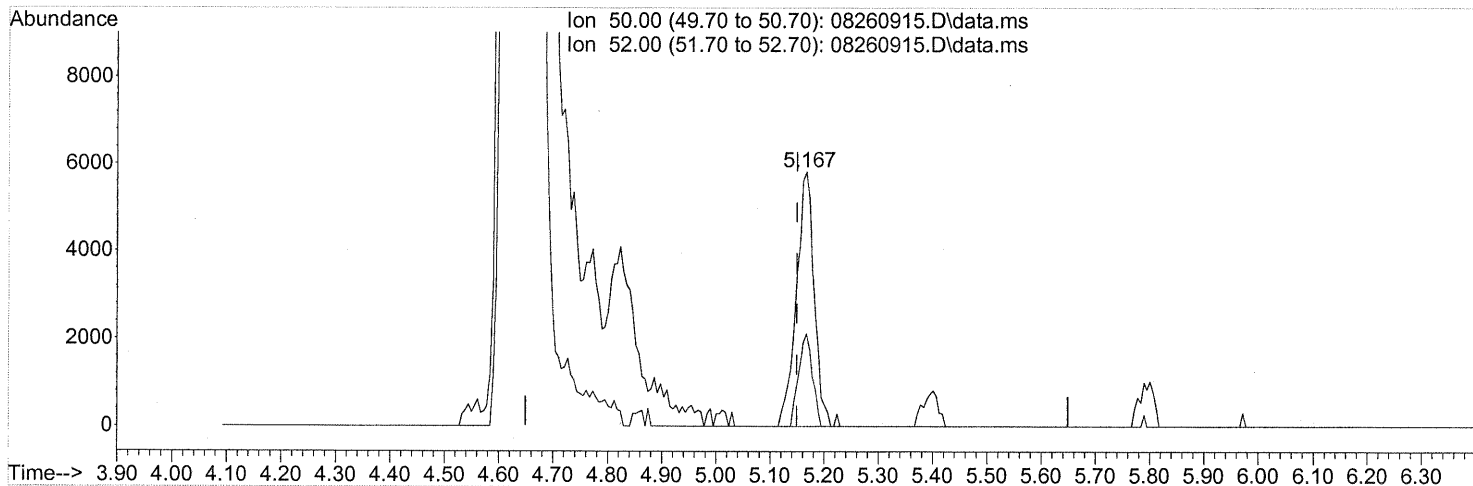
response 50266

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	32.78
100.90	8.80	8.59
102.90	5.20	5.60

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

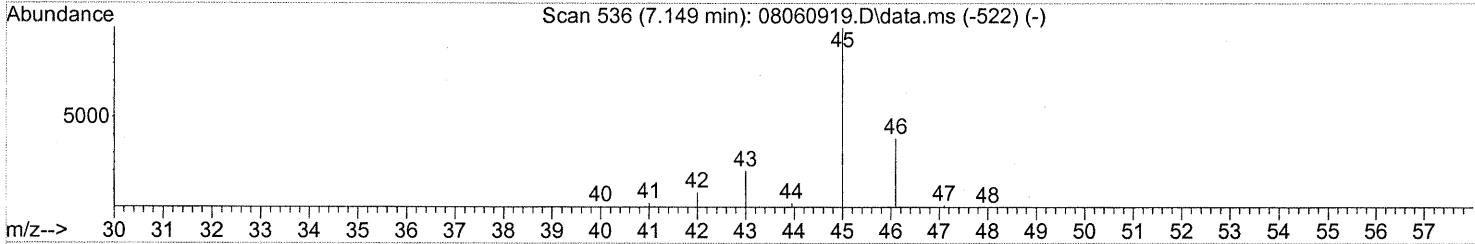
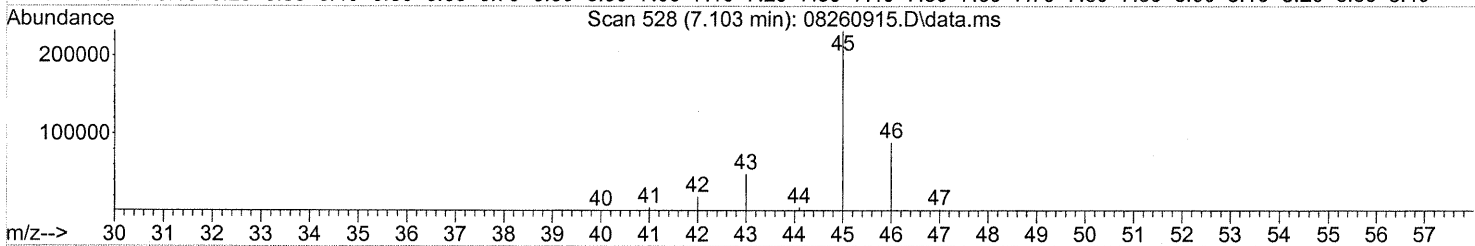
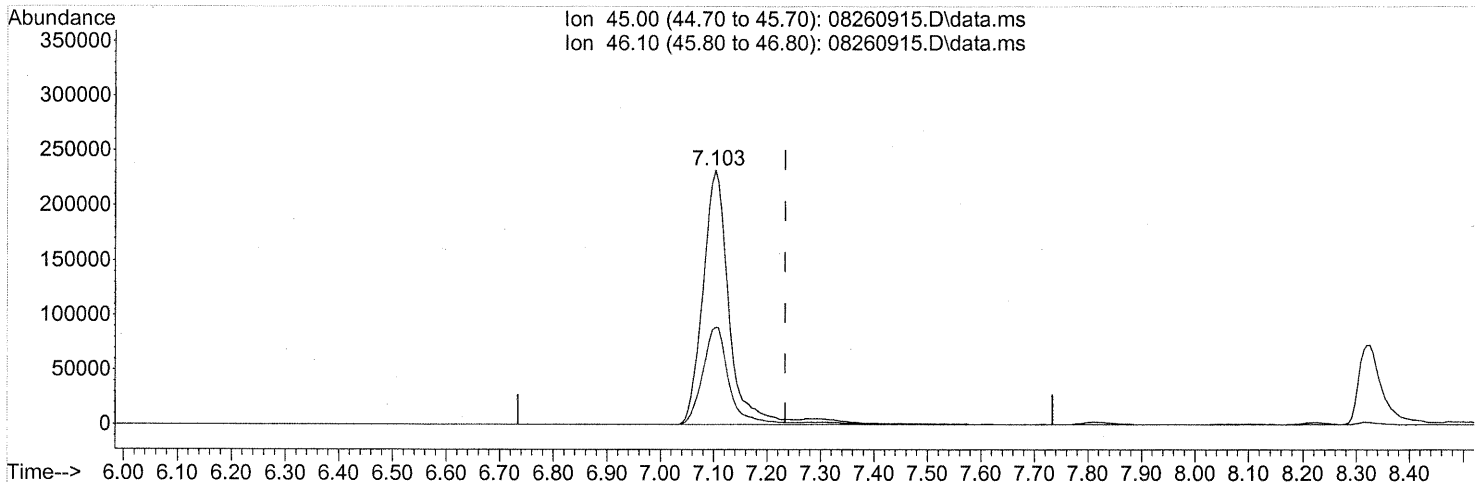
(4) Chloromethane (T)
 5.167min (+0.017) 0.73ng
 response 13259

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260915.D
Acq On : 26 Aug 2009 20:09
Operator : WA/CC
Sample : P0902876-010 (1000mL)
Misc : Environmental Health 102474
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260915.D\data.ms

(10) Ethanol (T)

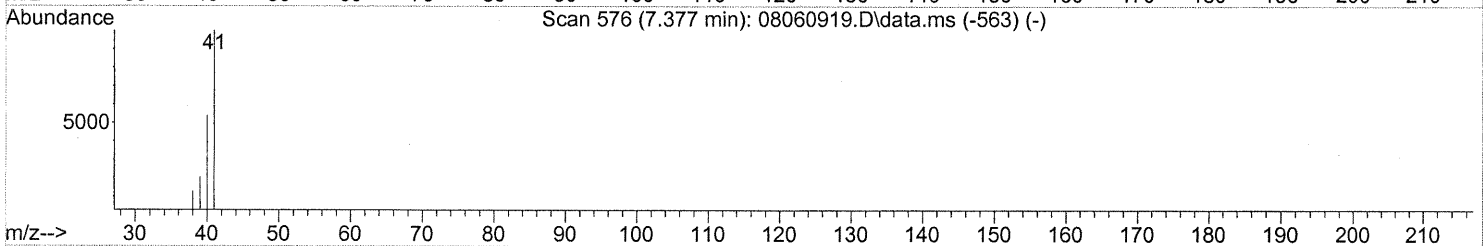
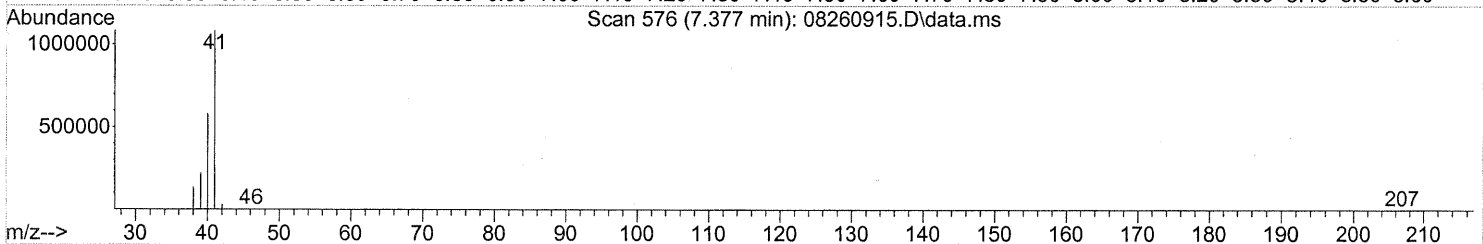
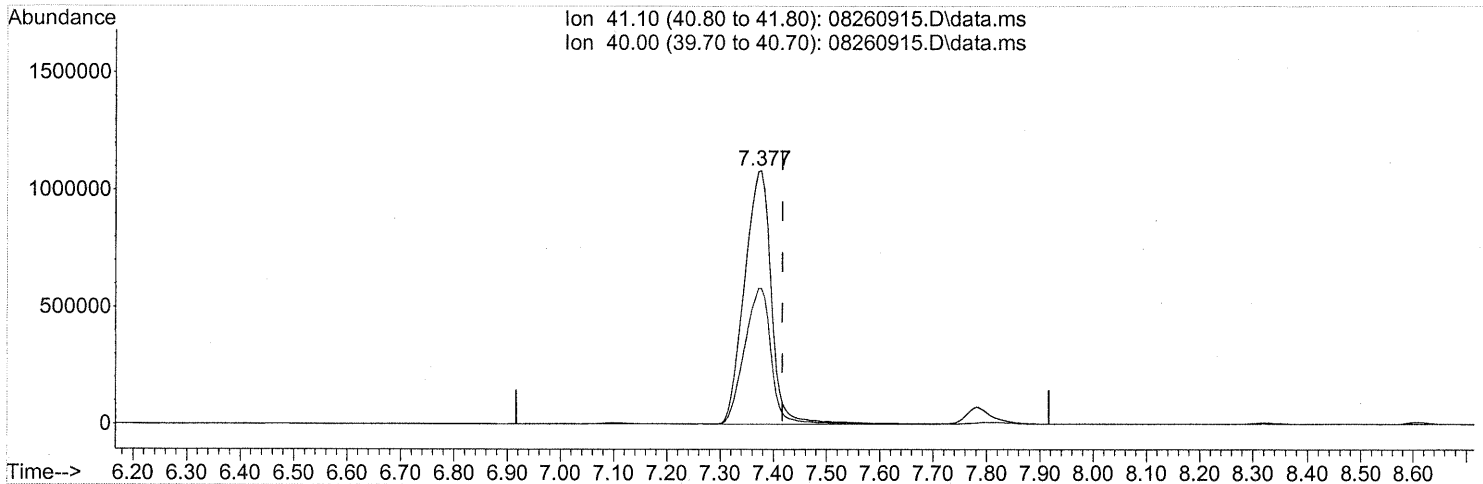
7.103min (-0.131) 76.67ng
response 806639

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

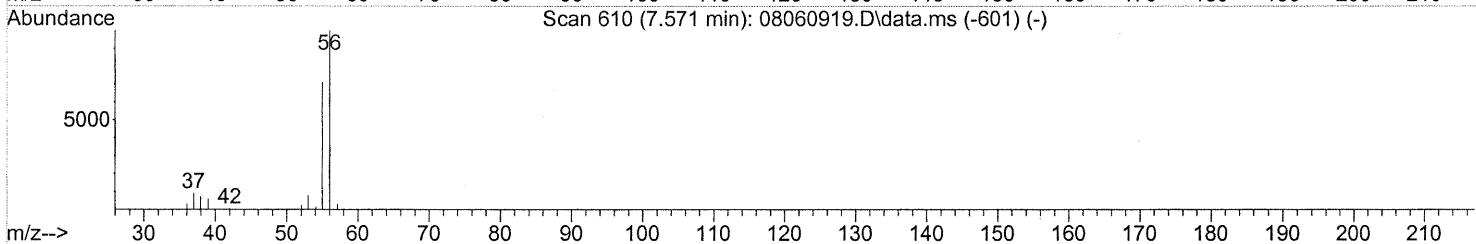
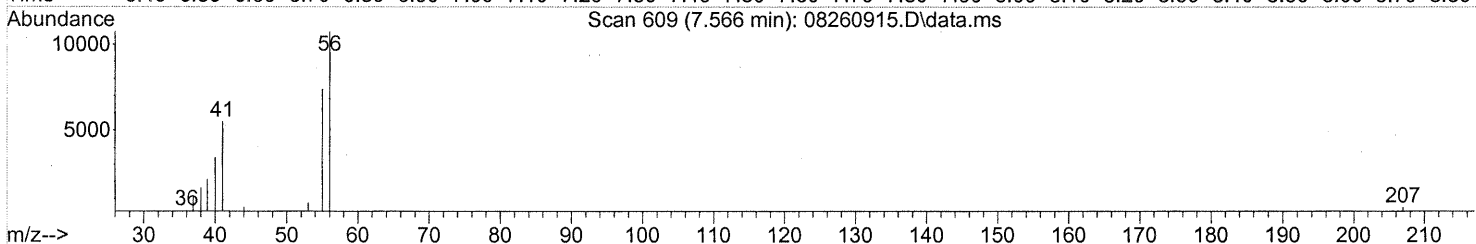
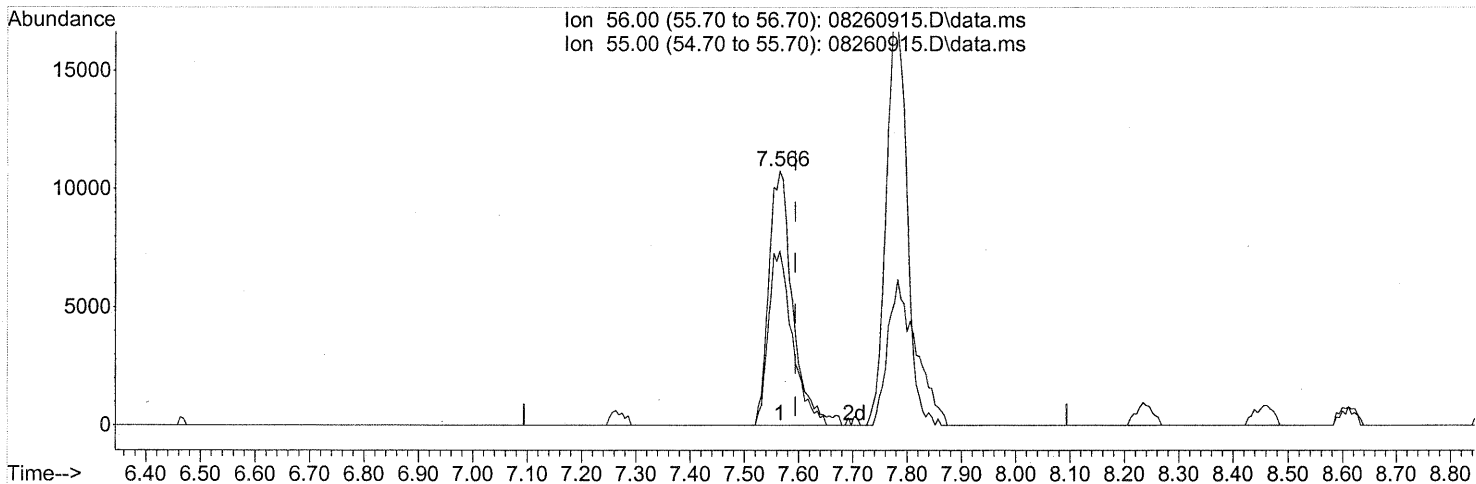
(11) Acetonitrile (T)
 7.377min (-0.040) 123.41ng
 response 3802444

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(12) Acrolein (T)

7.566min (-0.028) 4.10ng

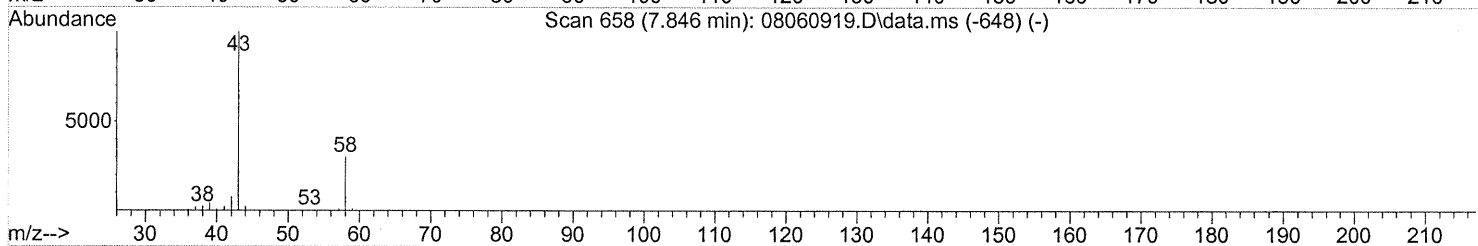
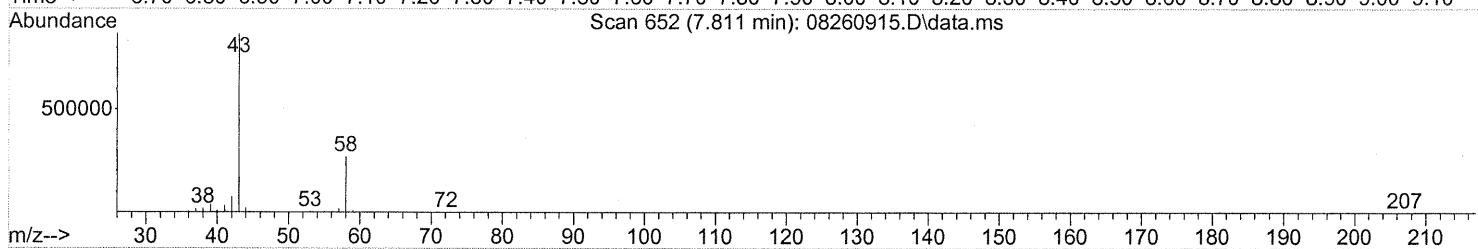
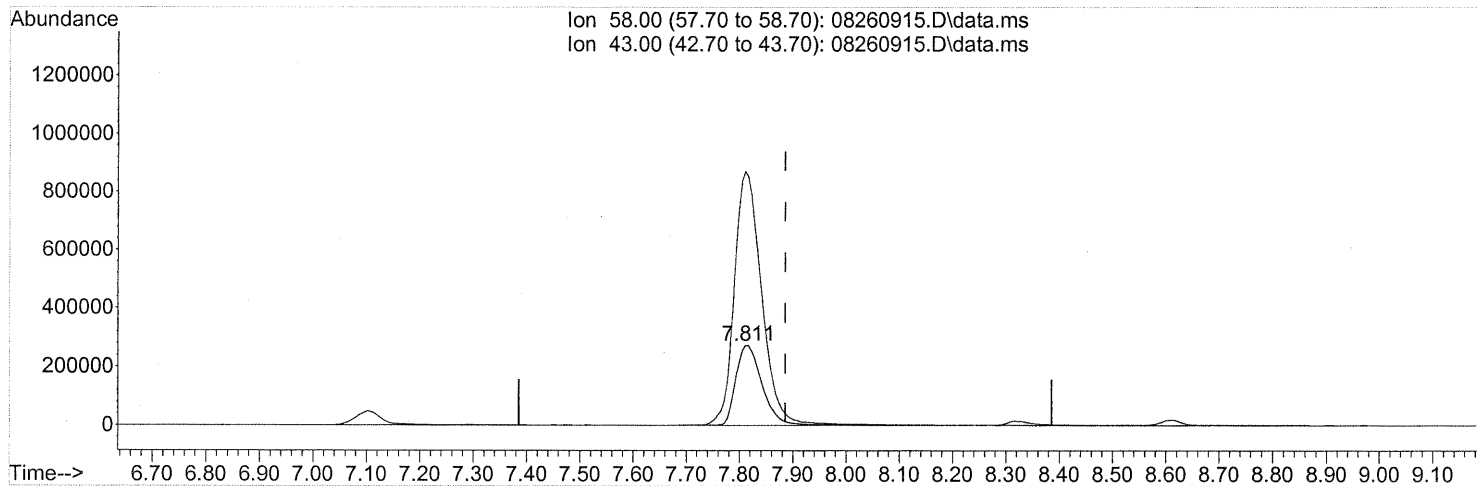
response 32803

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

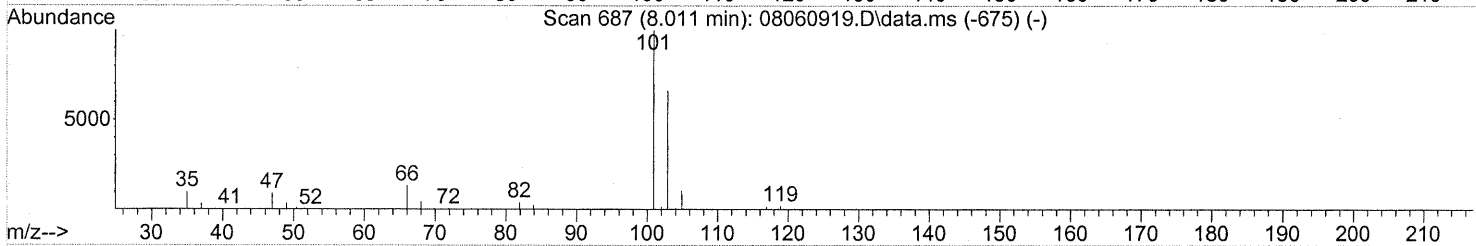
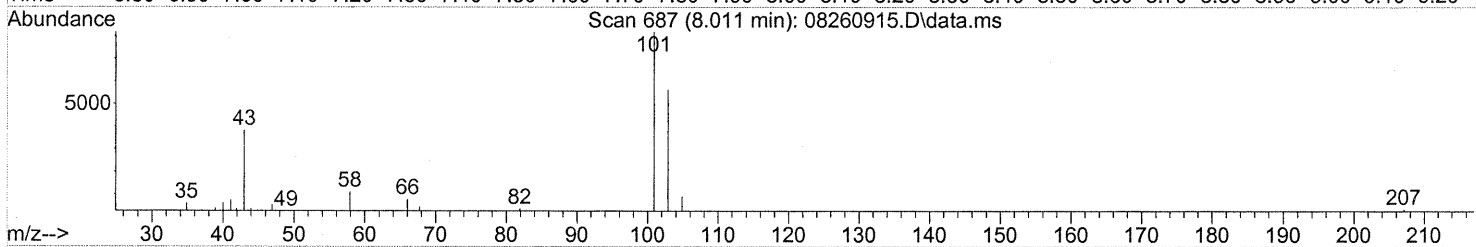
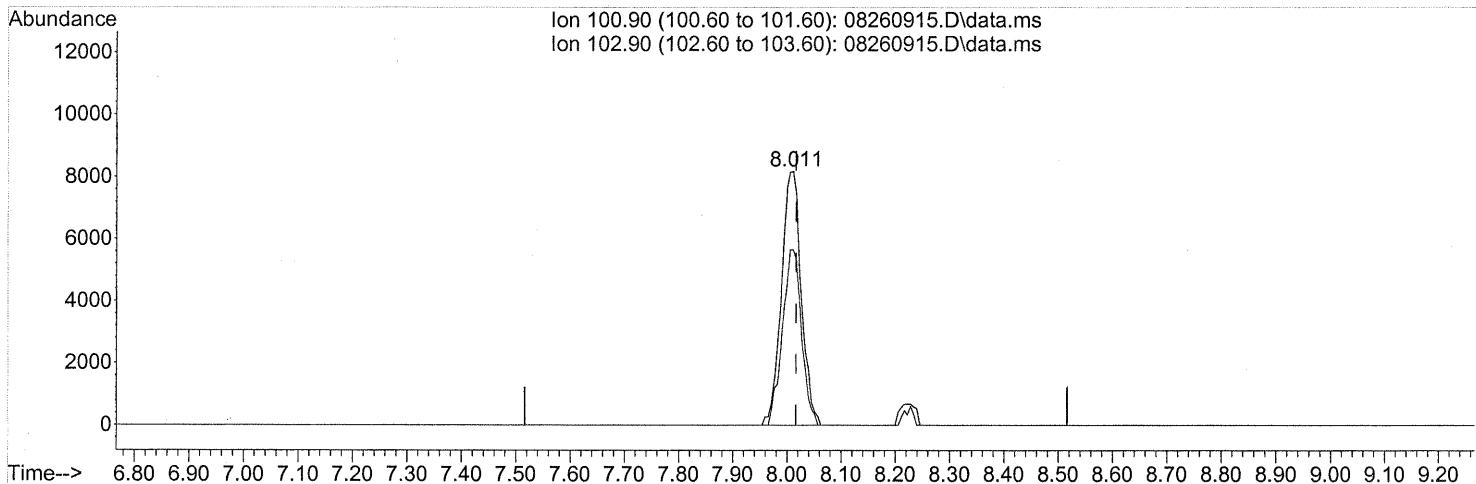
(13) Acetone (T)
 7.811min (-0.075) 93.76ng
 response 930770

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	332.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(14) Trichlorofluoromethane (T)

8.011min (-0.006) 0.85ng

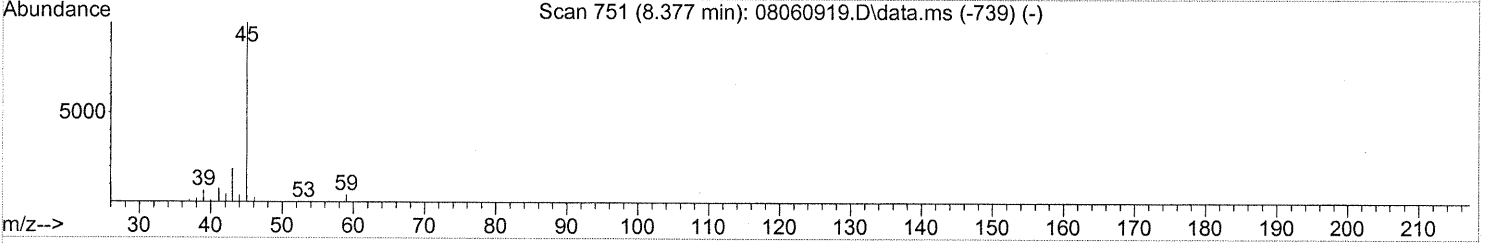
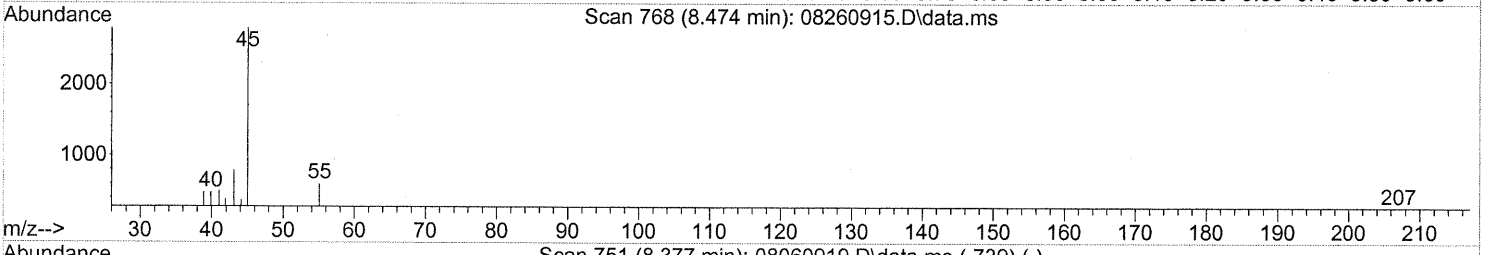
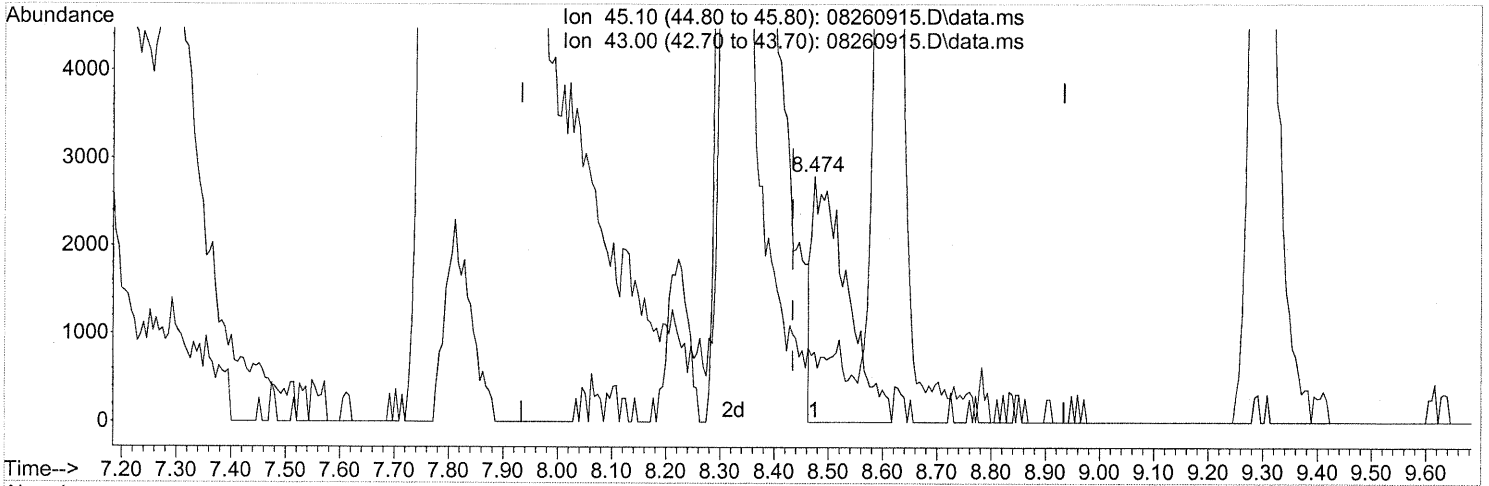
response 20834

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	66.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

8.474min (+0.040) 0.32ng

SP

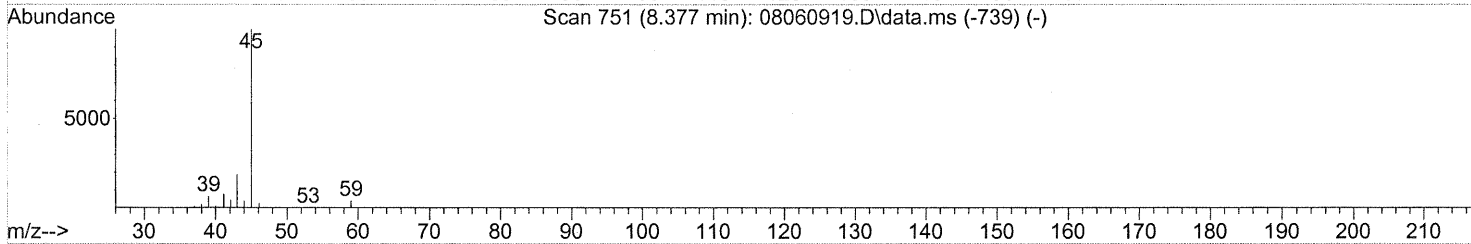
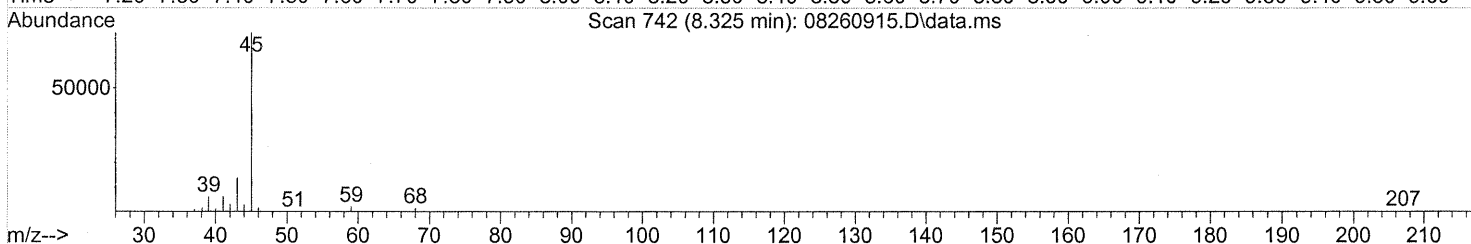
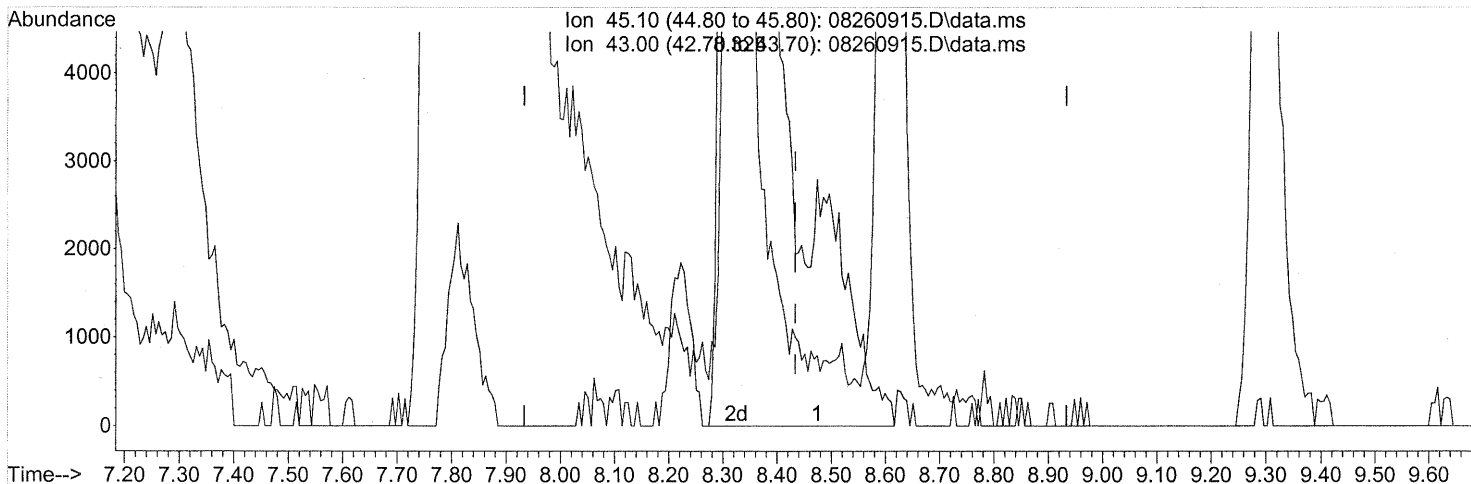
response 12365

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

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

8.325min (-0.108) 6.12ng m

response 238578

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

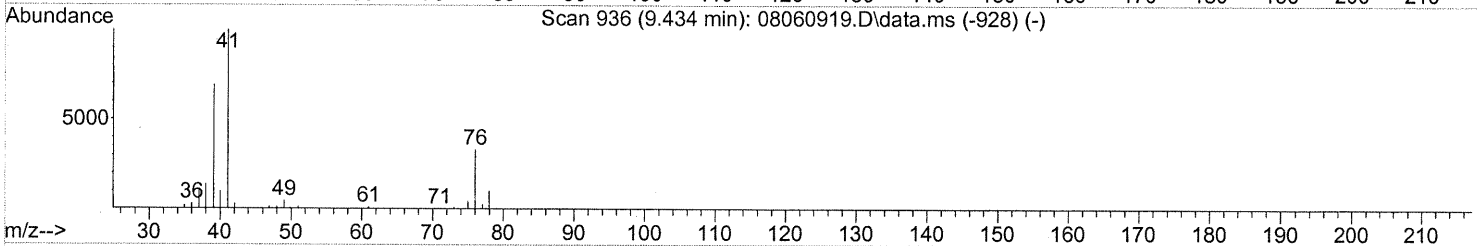
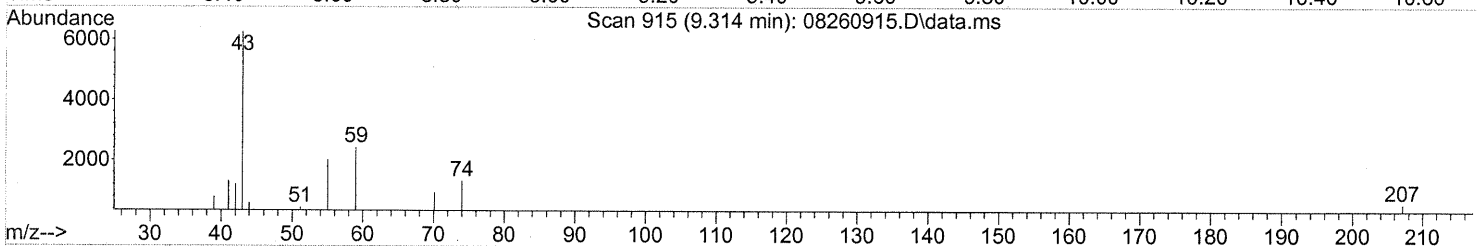
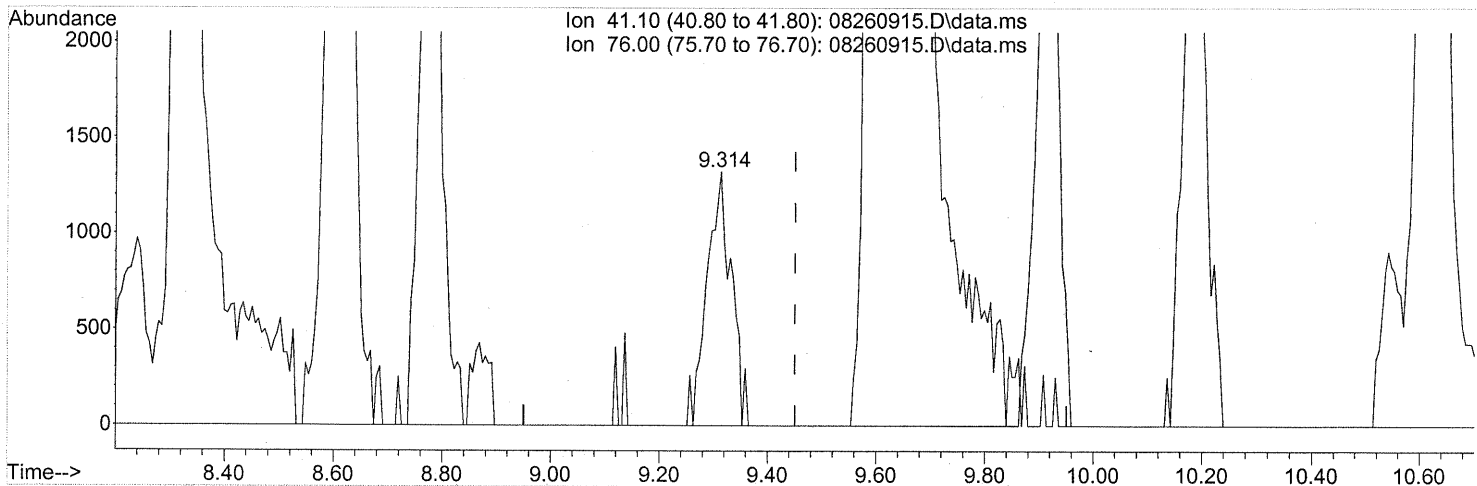
SP 512
11/9/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.314min (-0.137) 0.16ng

response 4180

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

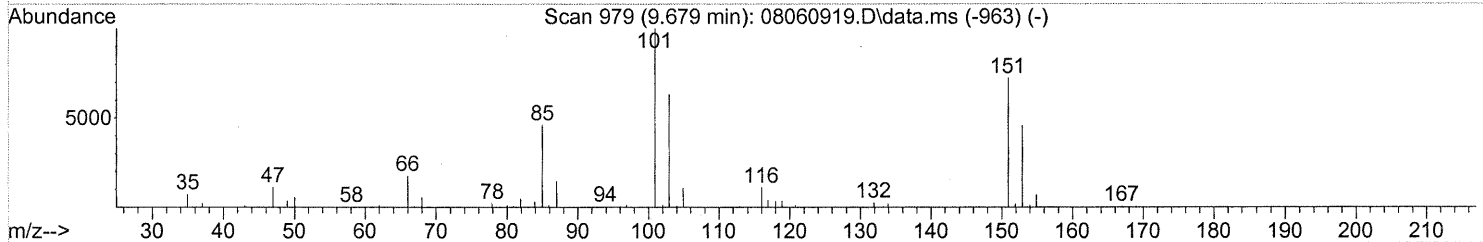
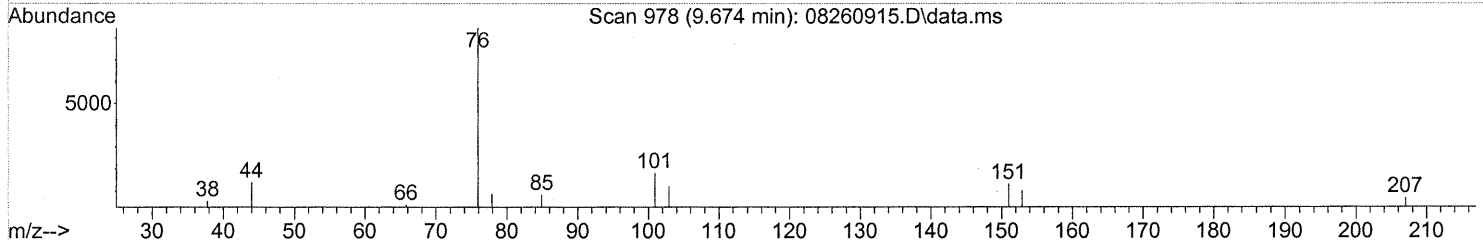
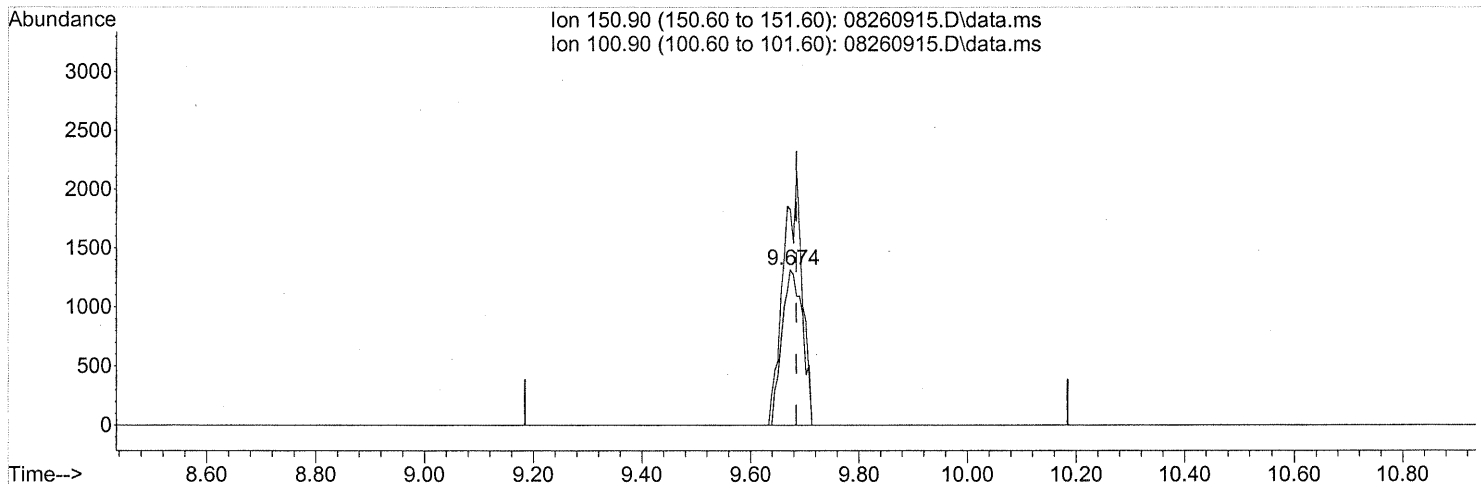
EP
WA 9/11/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.674min (-0.011) 0.39ng

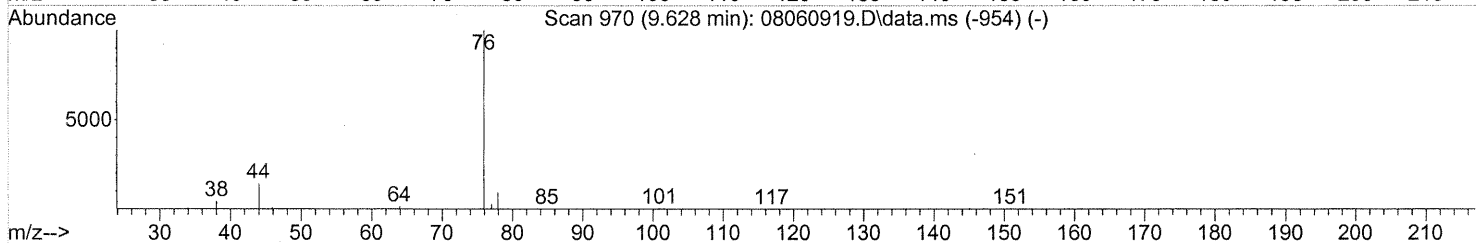
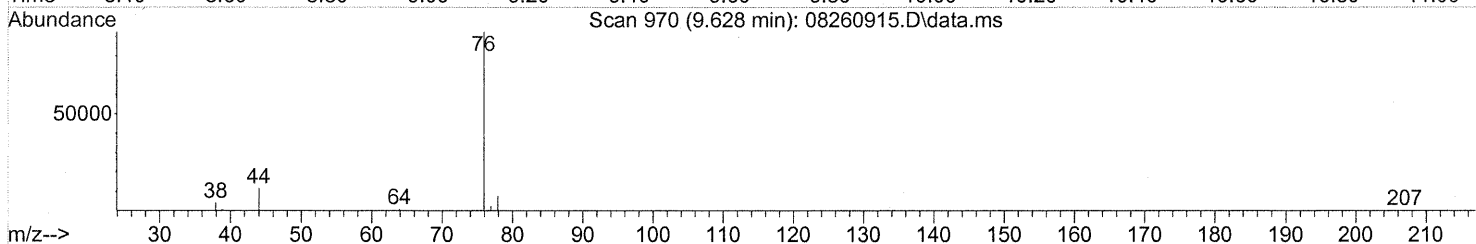
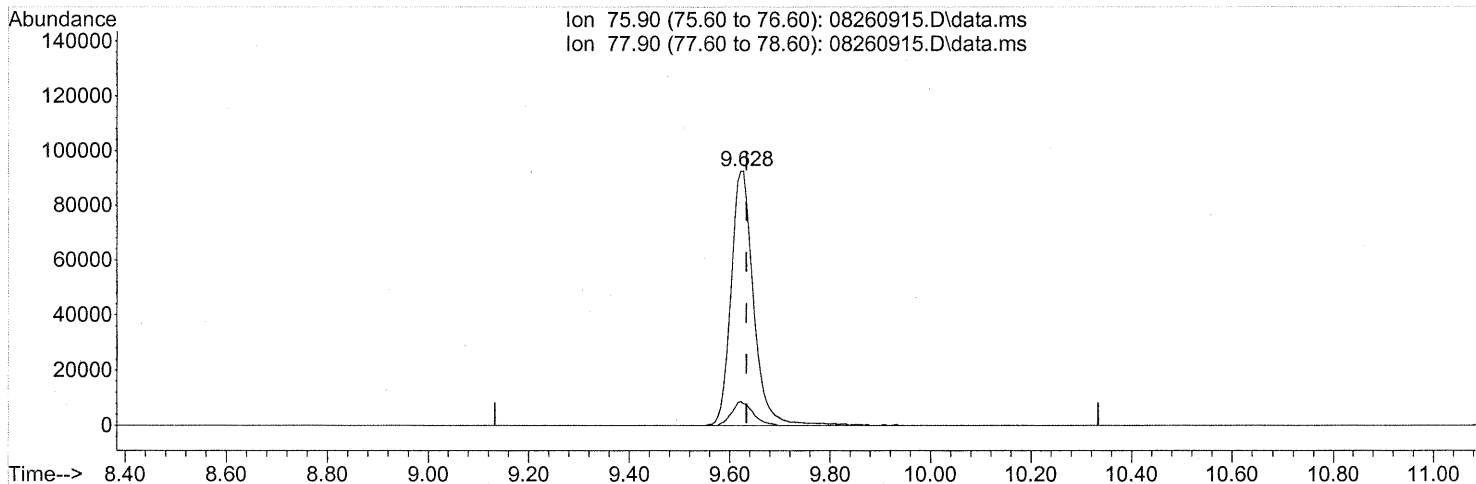
response 3488

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	148.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(22) Carbon Disulfide (T)

9.628min (-0.006) 6.09ng

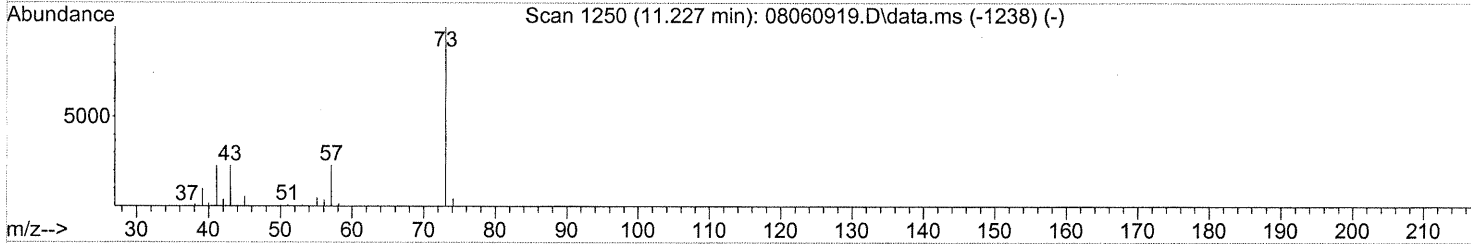
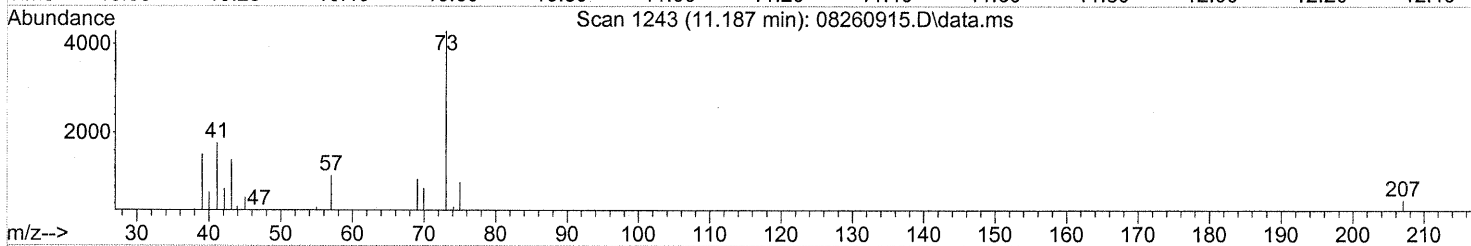
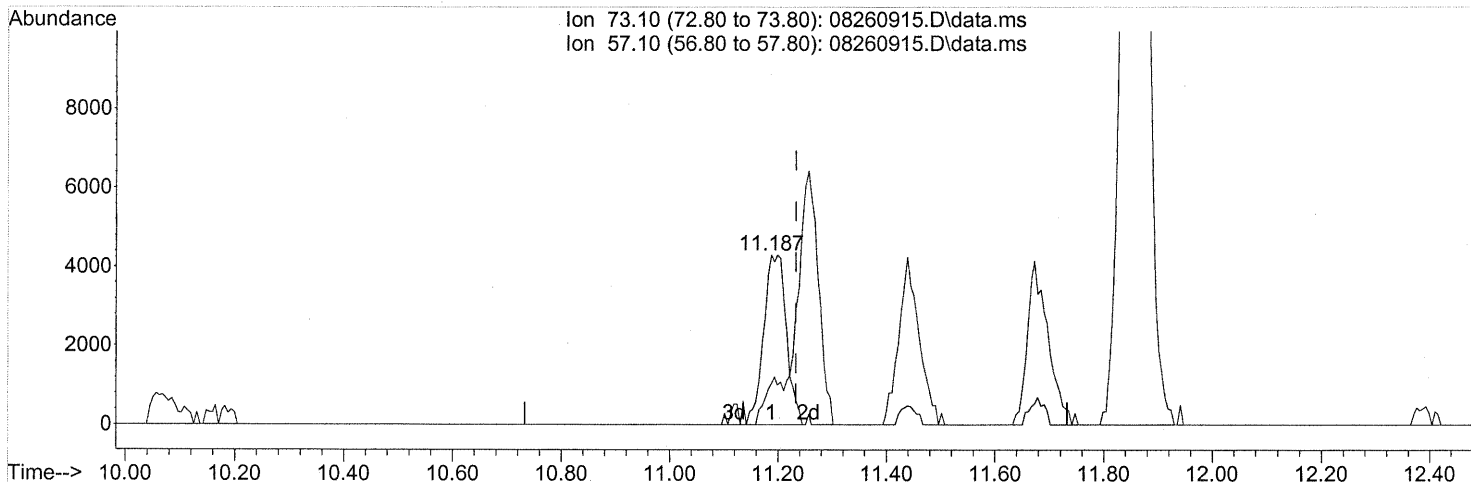
response 286388

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.187min (-0.046) 0.33ng

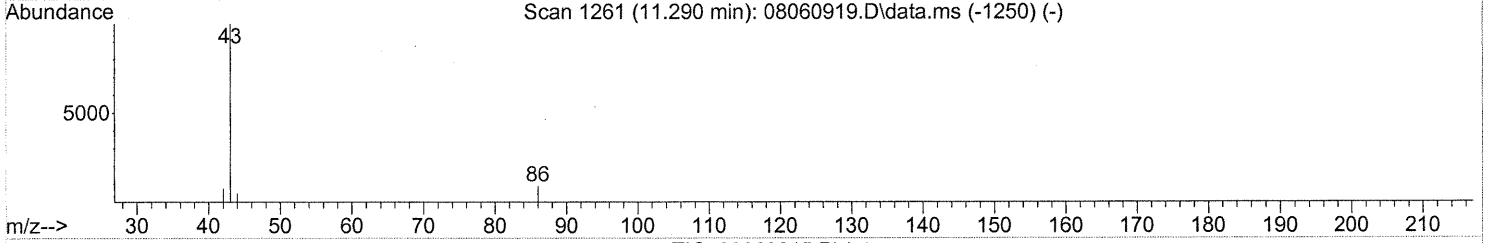
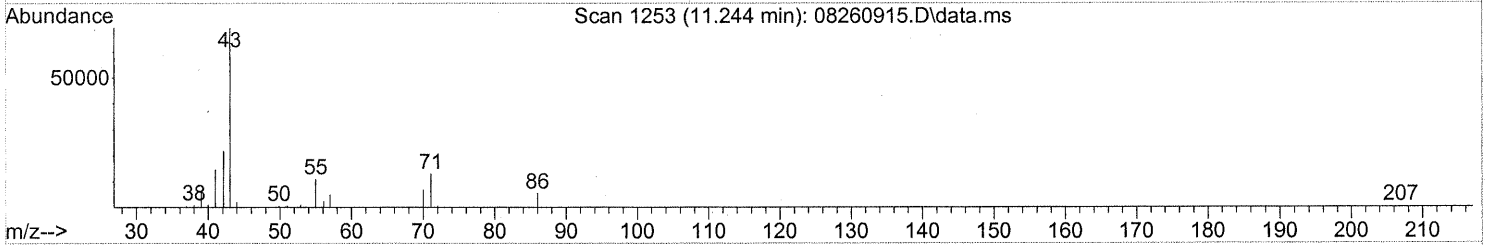
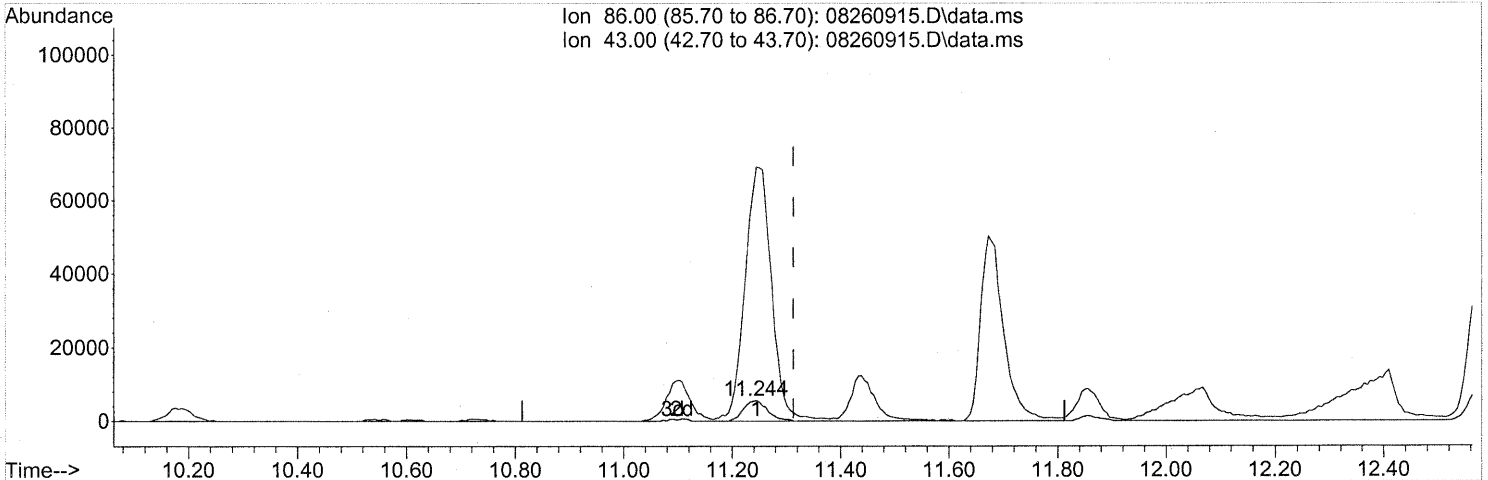
response 12468

Ion	Exp%	Act%
73.10	100	100
57.10	22.50	20.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(26) Vinyl Acetate (T)
 11.244min (-0.068) 8.25ng
 response 16658

Ion	Exp%	Act%
86.00	100	100
43.00	1210.70	1377.77#
0.00	0.00	0.00
0.00	0.00	0.00

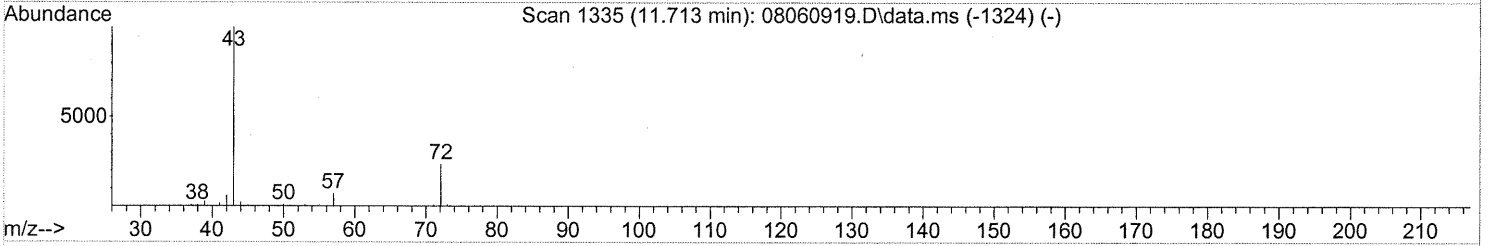
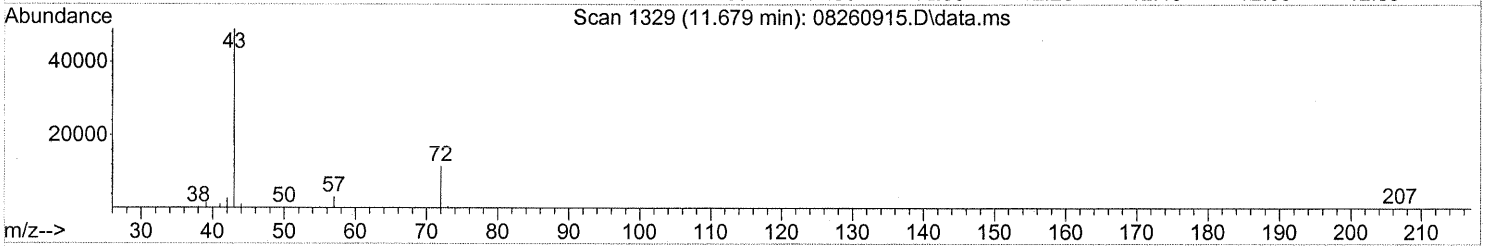
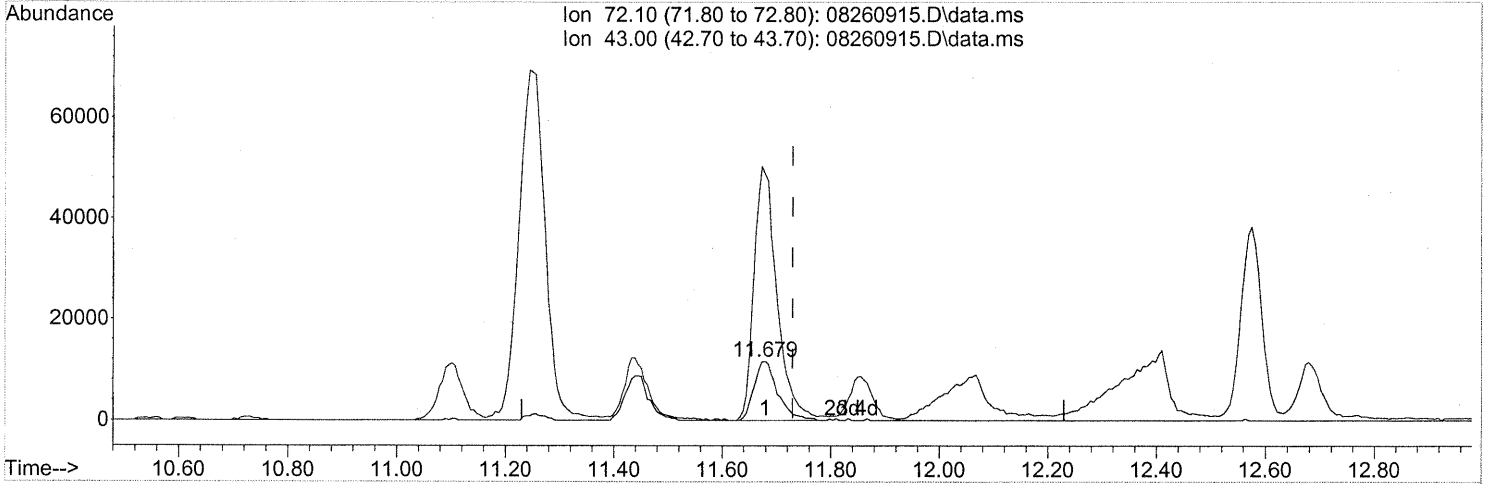
FP
in 9/2/09.

— 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



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

11.679min (-0.051) 3.89ng

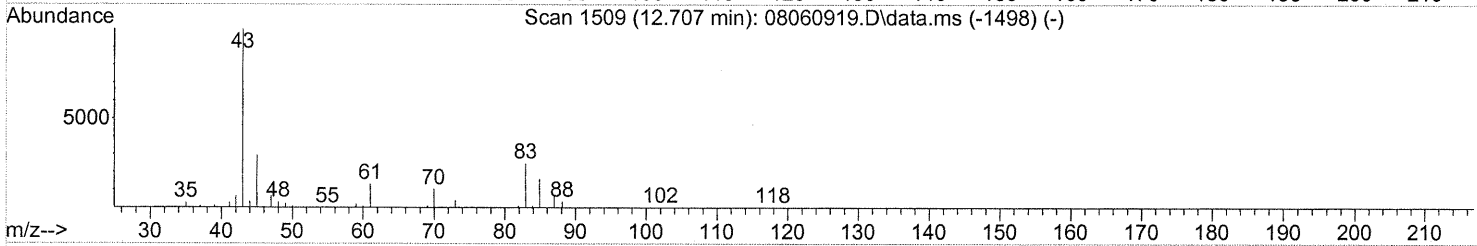
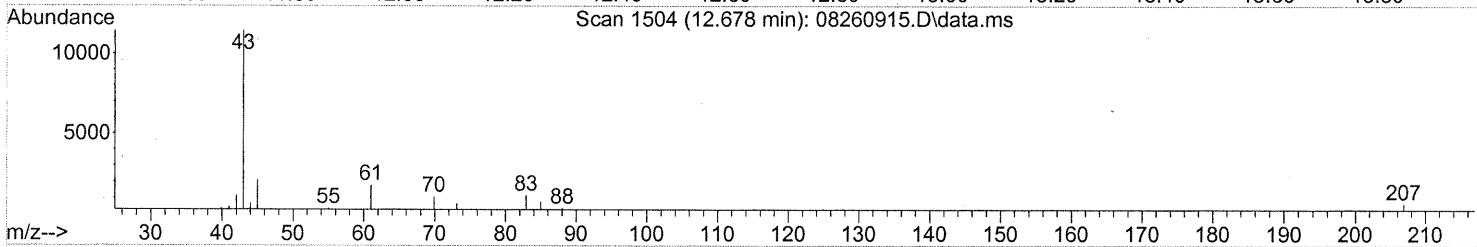
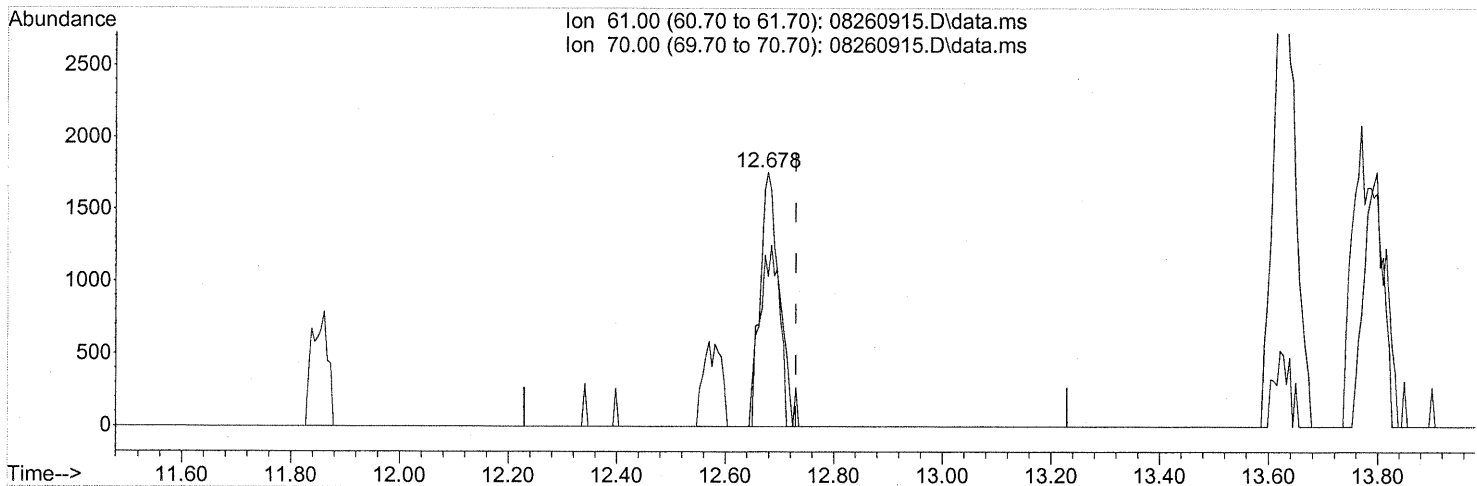
response 34859

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	424.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

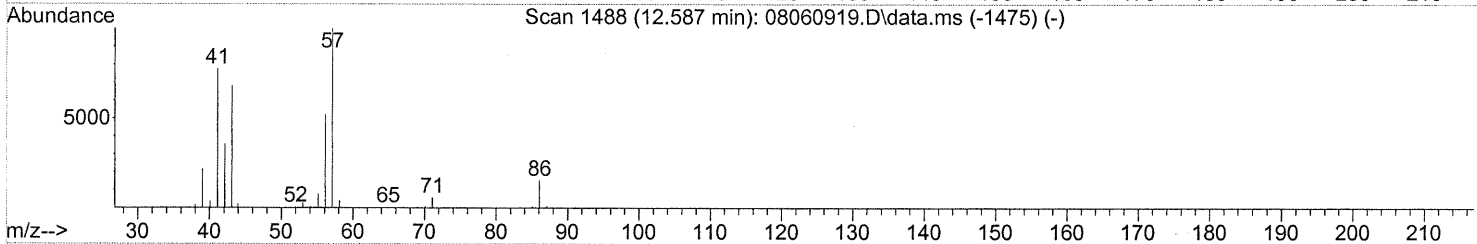
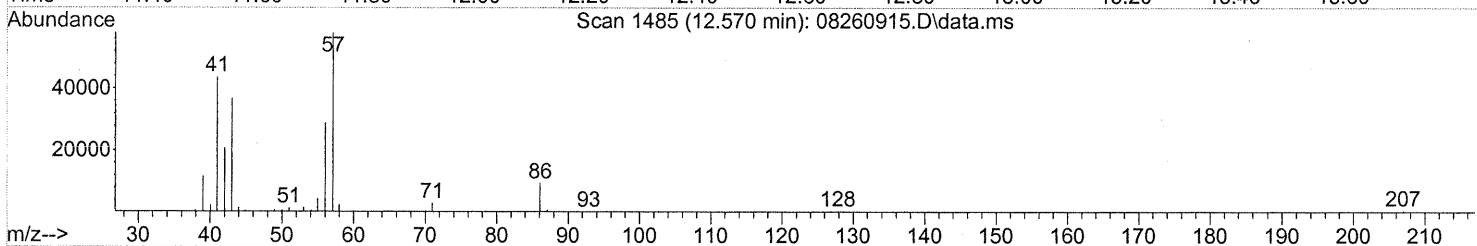
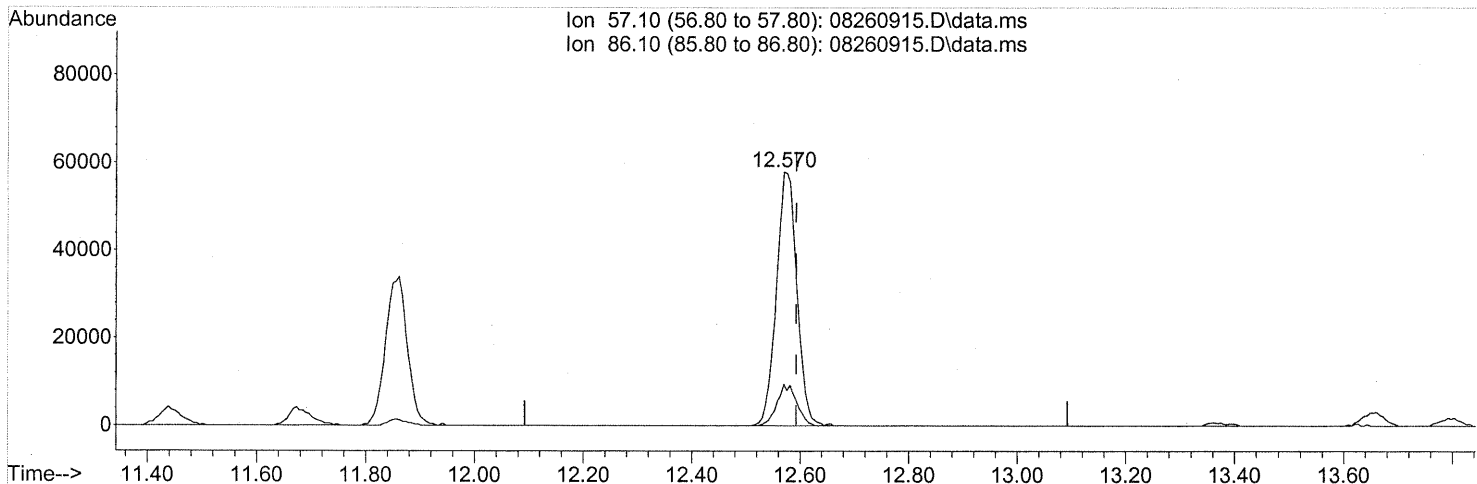
(30) Ethyl Acetate (T)
 12.678min (-0.051) 0.93ng
 response 4350

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	71.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

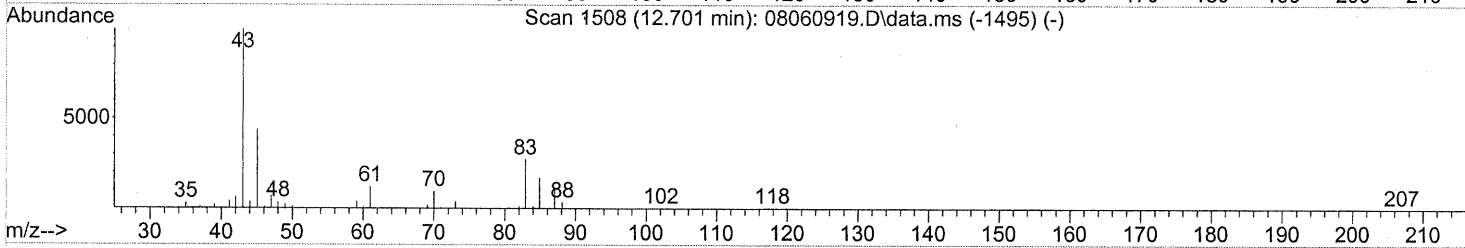
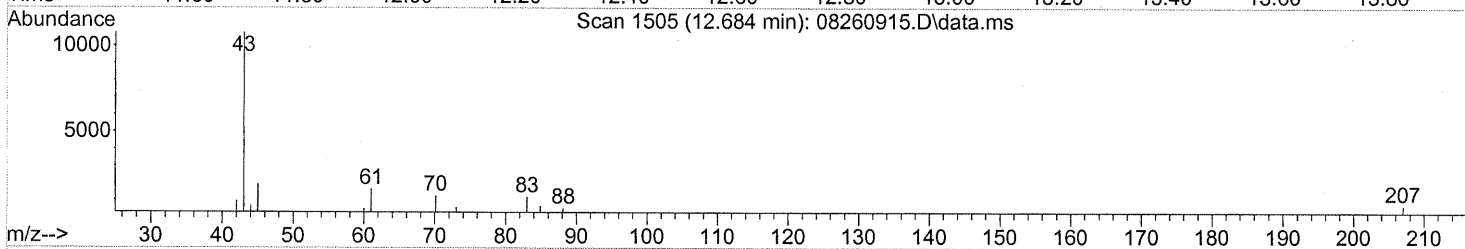
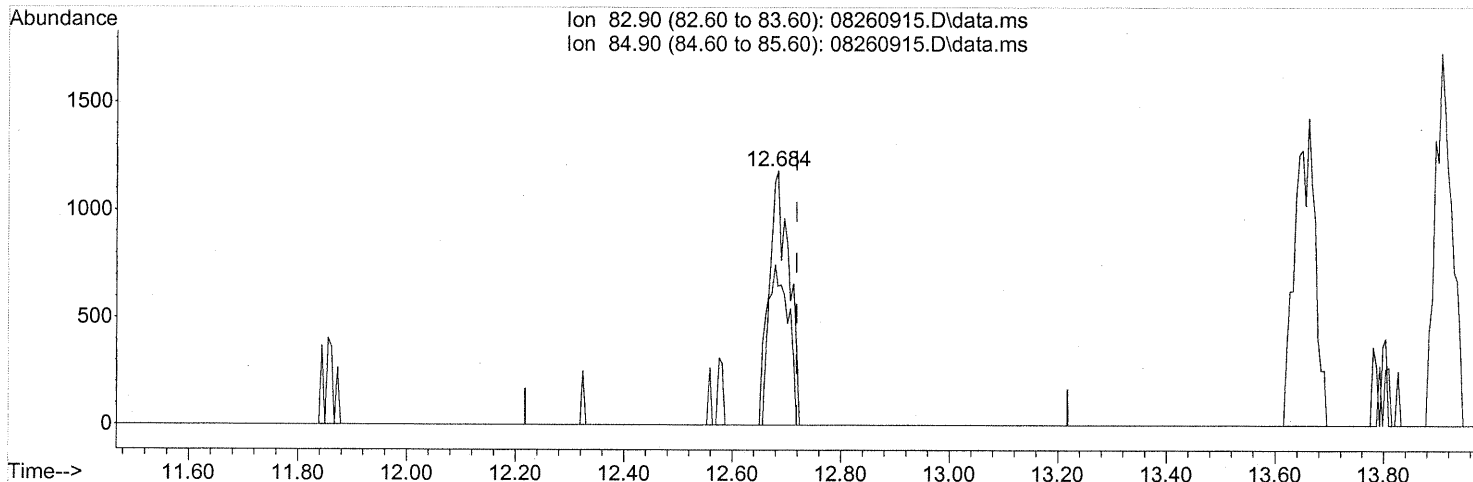
(31) n-Hexane (T)
 12.570min (-0.023) 6.33ng
 response 151091

Ion	Exp%	Act%
57.10	100	100
86.10	15.70	15.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

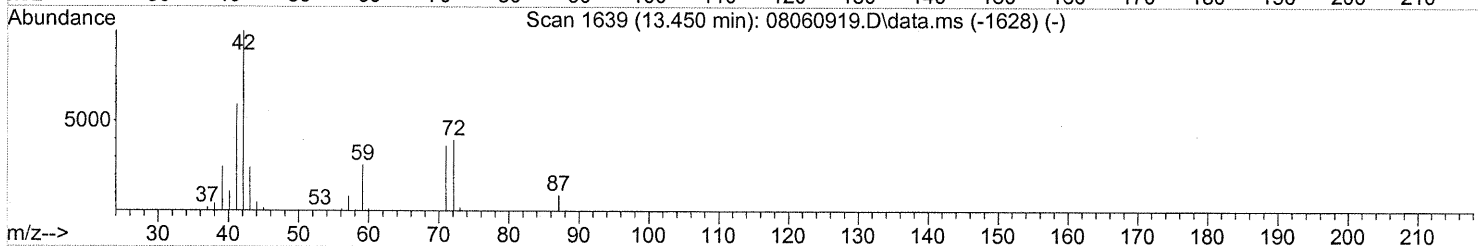
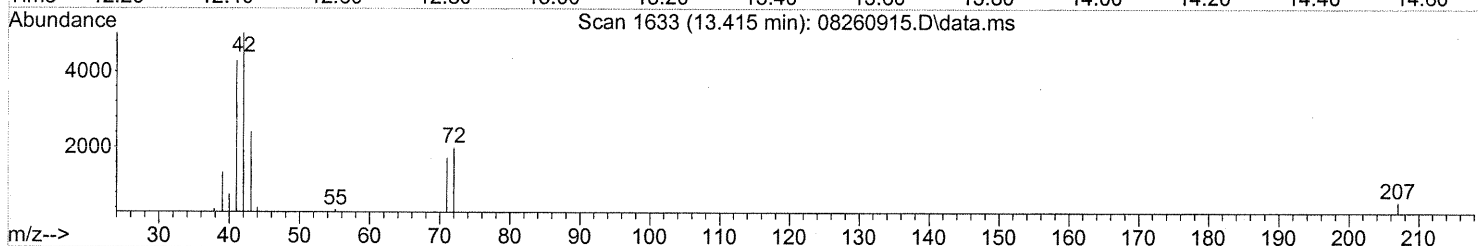
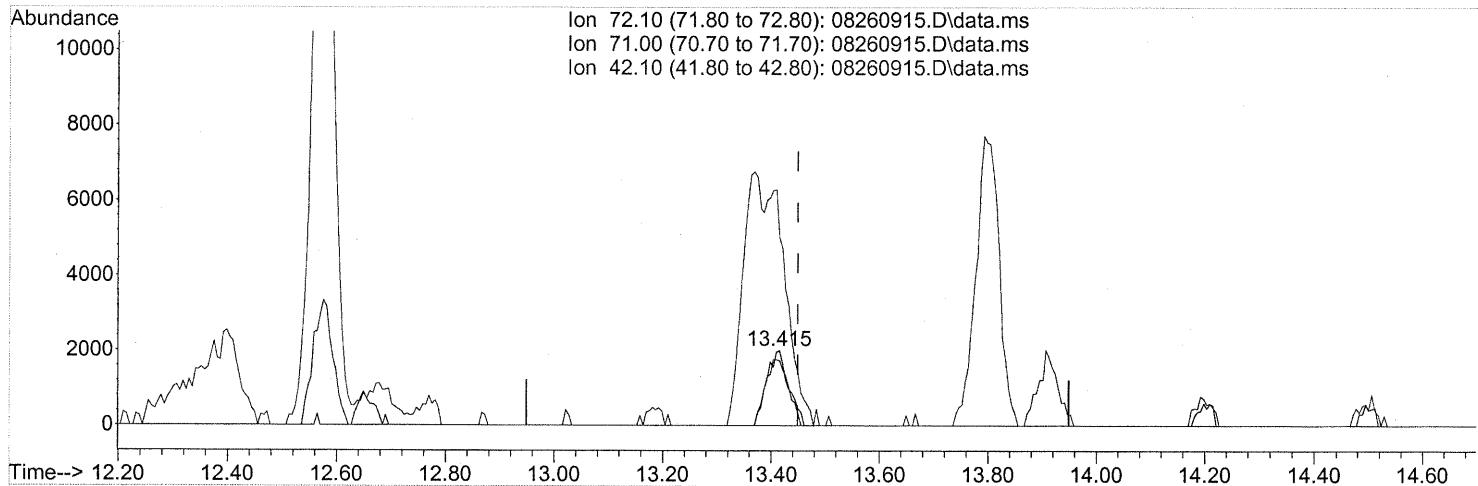
(32) Chloroform (T)
 12.684min (-0.034) 0.14ng
 response 3025

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	62.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.415min (-0.034) 0.59ng

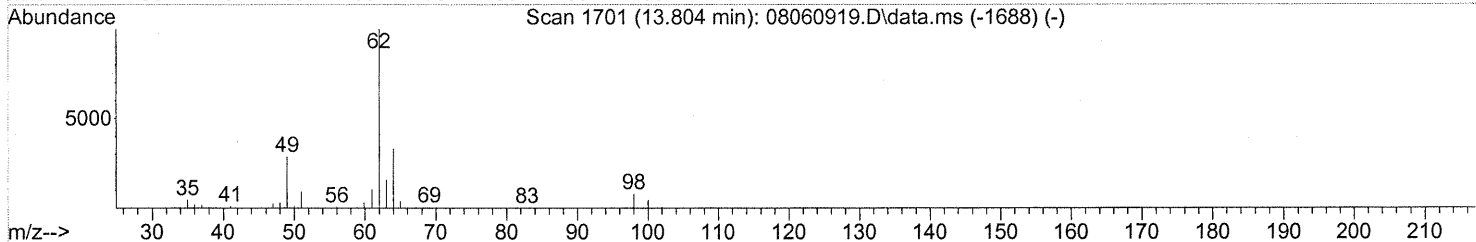
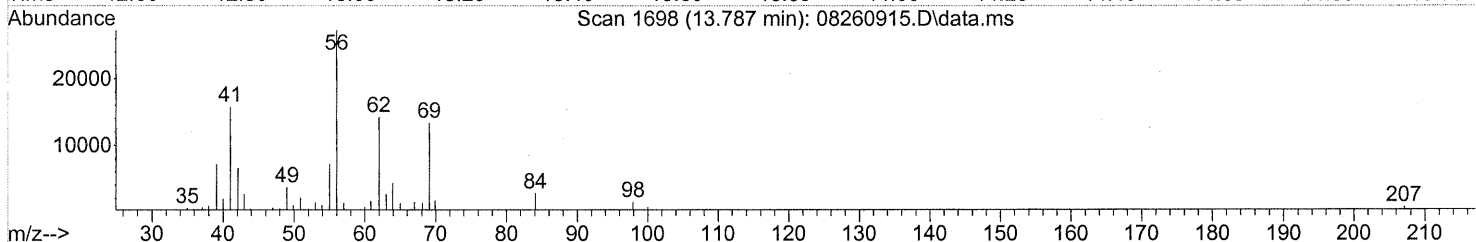
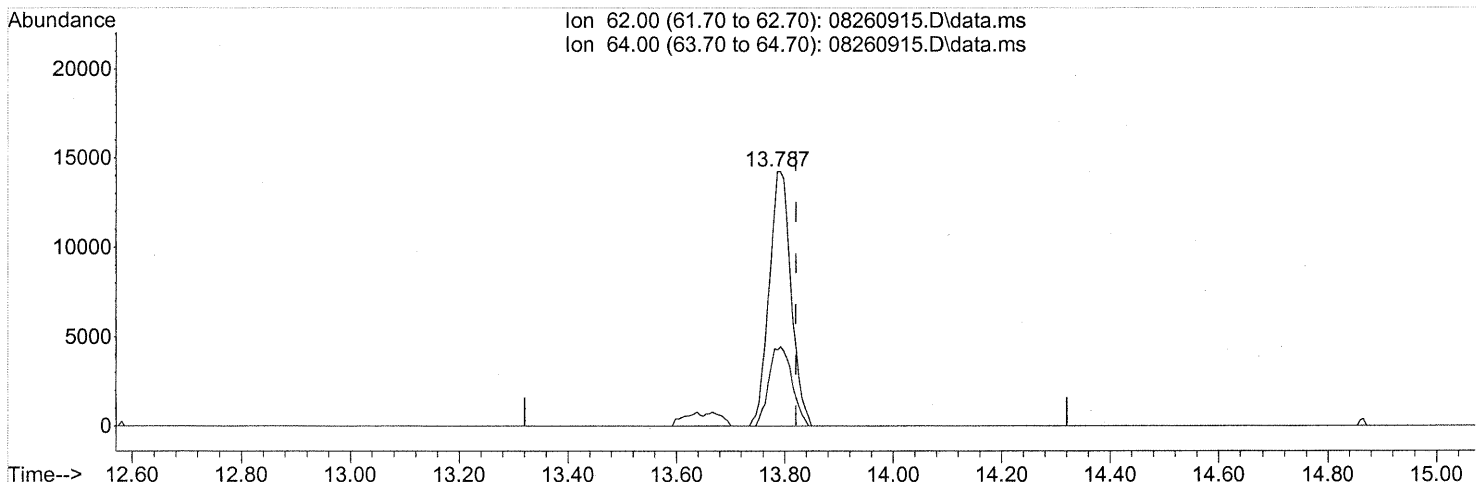
response 5608

Ion	Exp%	Act%
72.10	100	100
71.00	95.70	92.72
42.10	253.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(36) 1,2-Dichloroethane (T)

13.787min (-0.034) 2.09ng

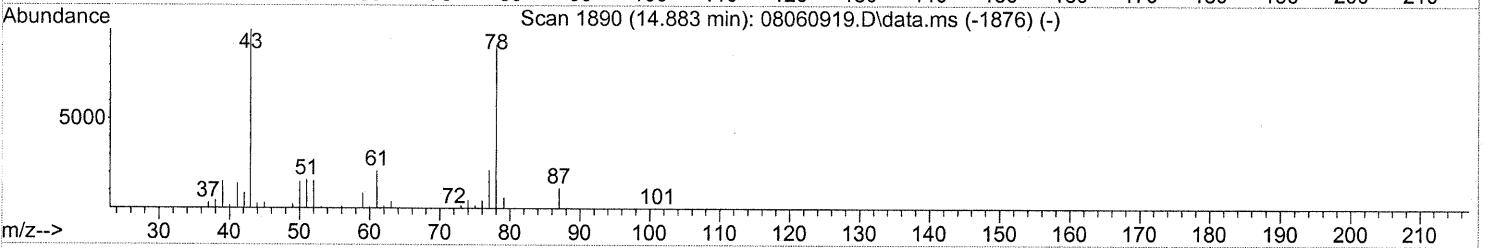
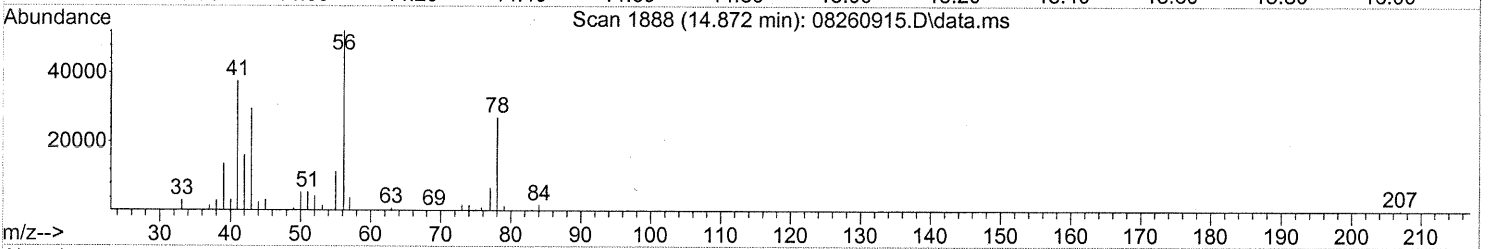
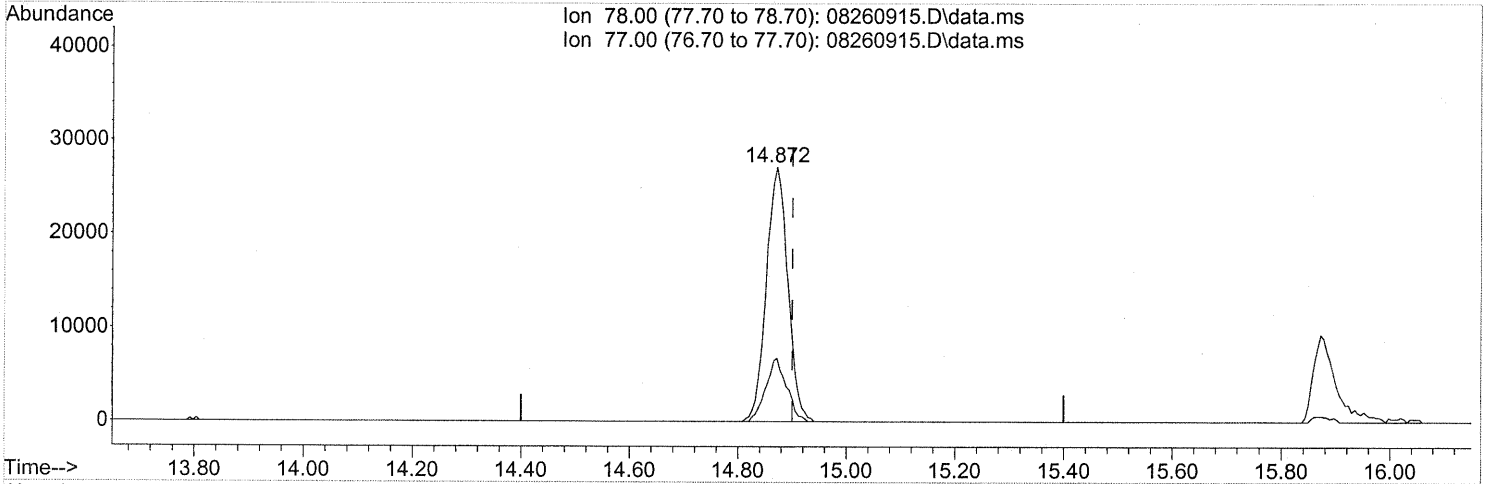
response 40121

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	32.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

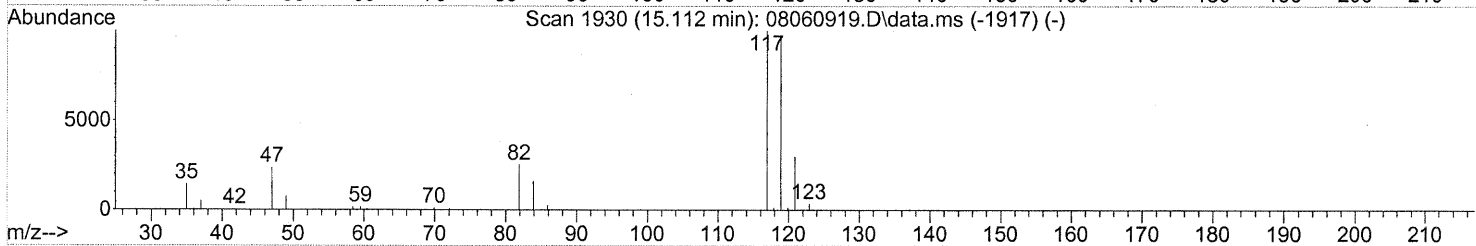
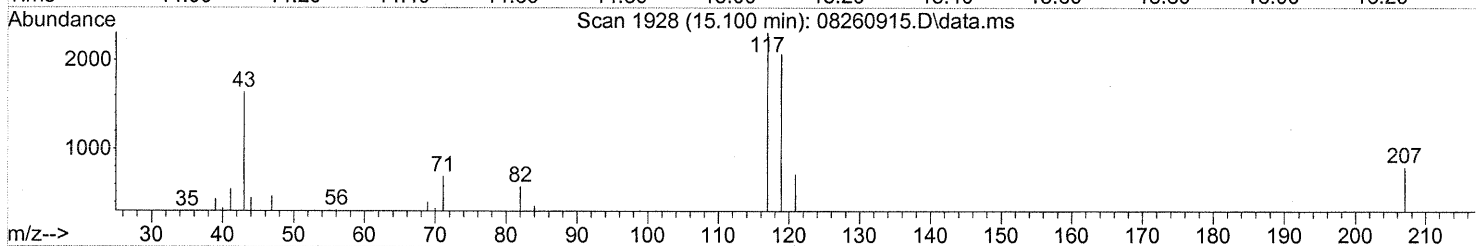
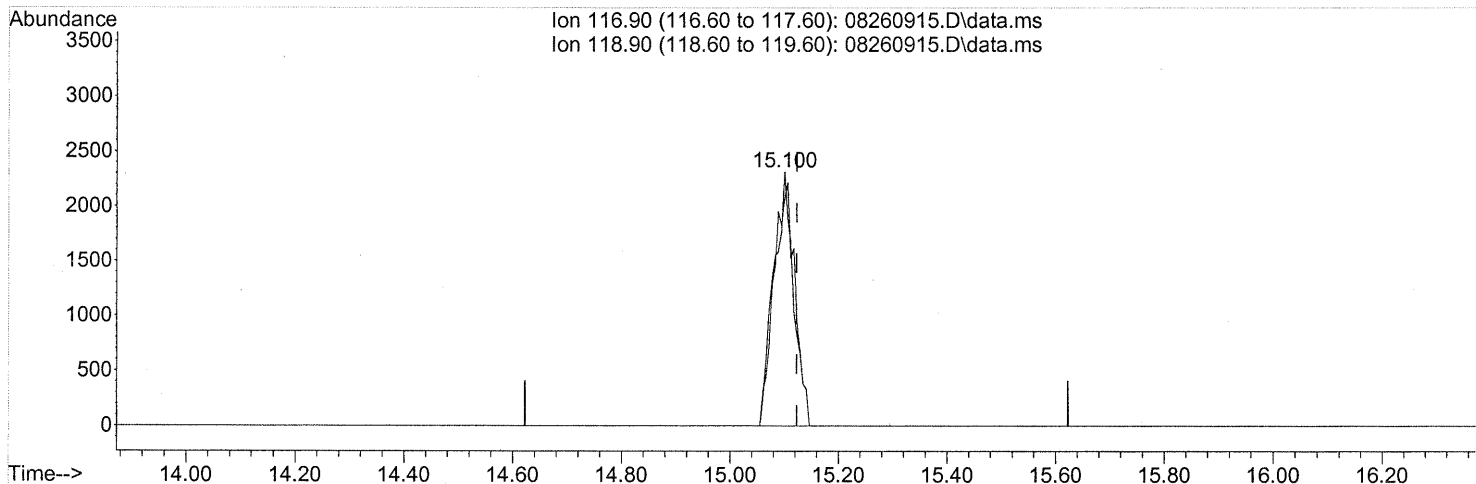
(41) Benzene (T)
 14.872min (-0.028) 1.41ng
 response 74872

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	24.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260915.D
Acq On : 26 Aug 2009 20:09
Operator : WA/CC
Sample : P0902876-010 (1000mL)
Misc : Environmental Health 102474
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260915.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.35ng

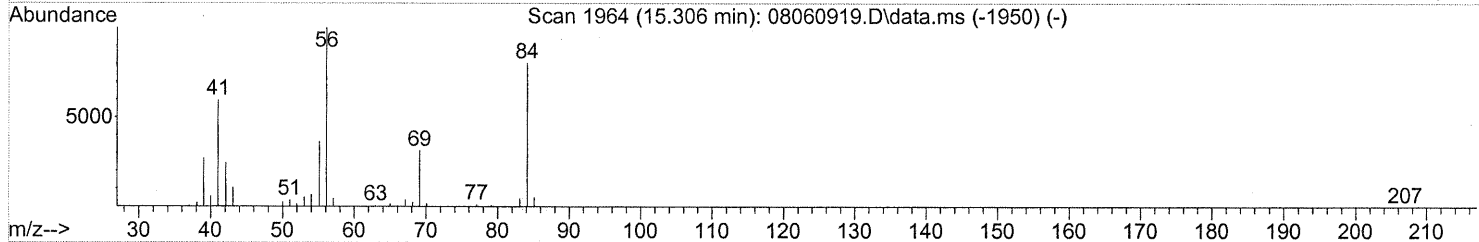
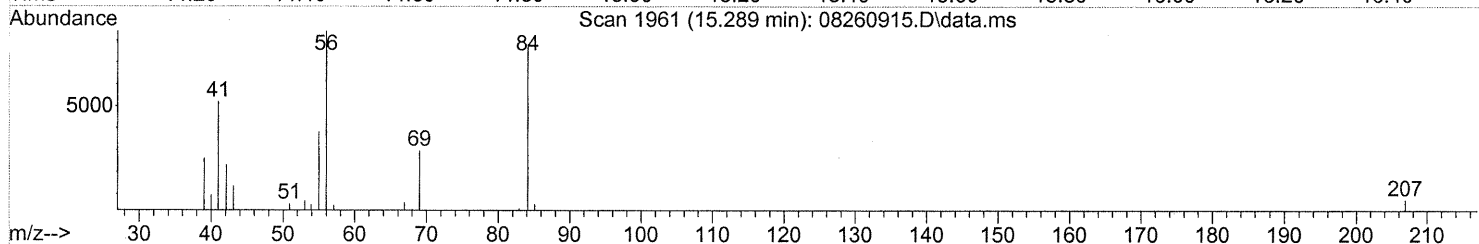
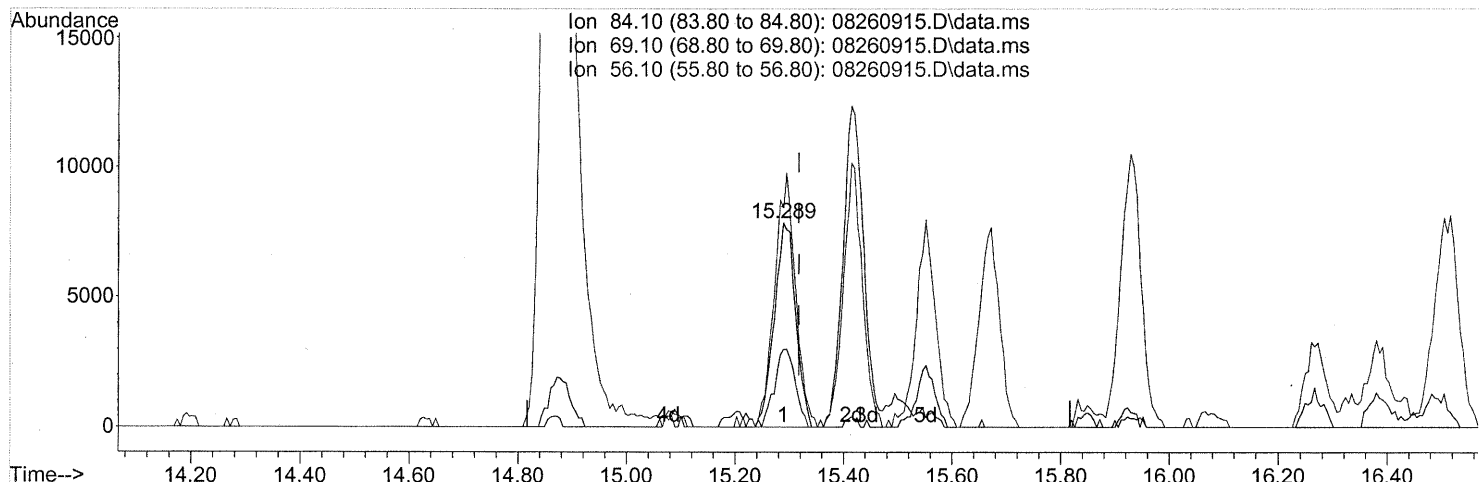
response 5901

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	102.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

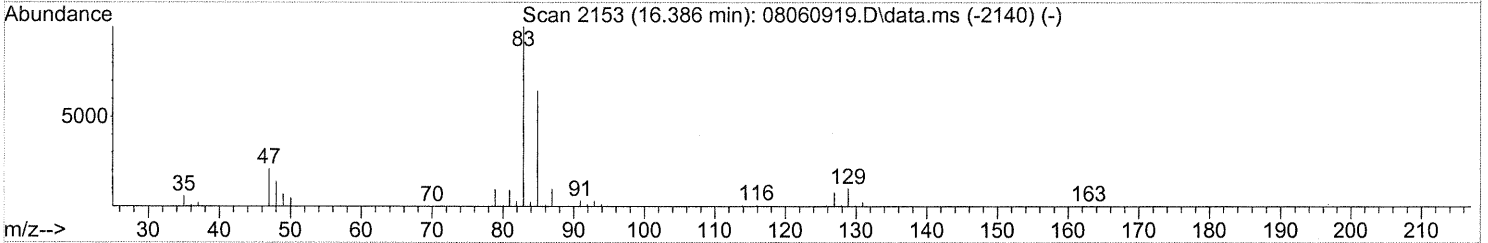
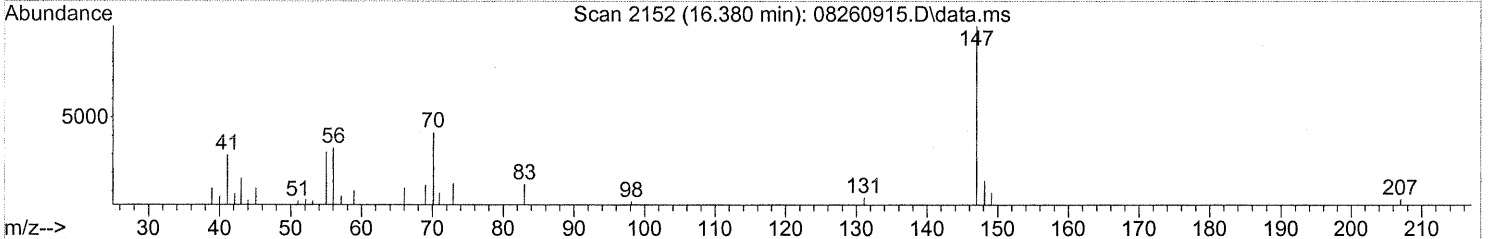
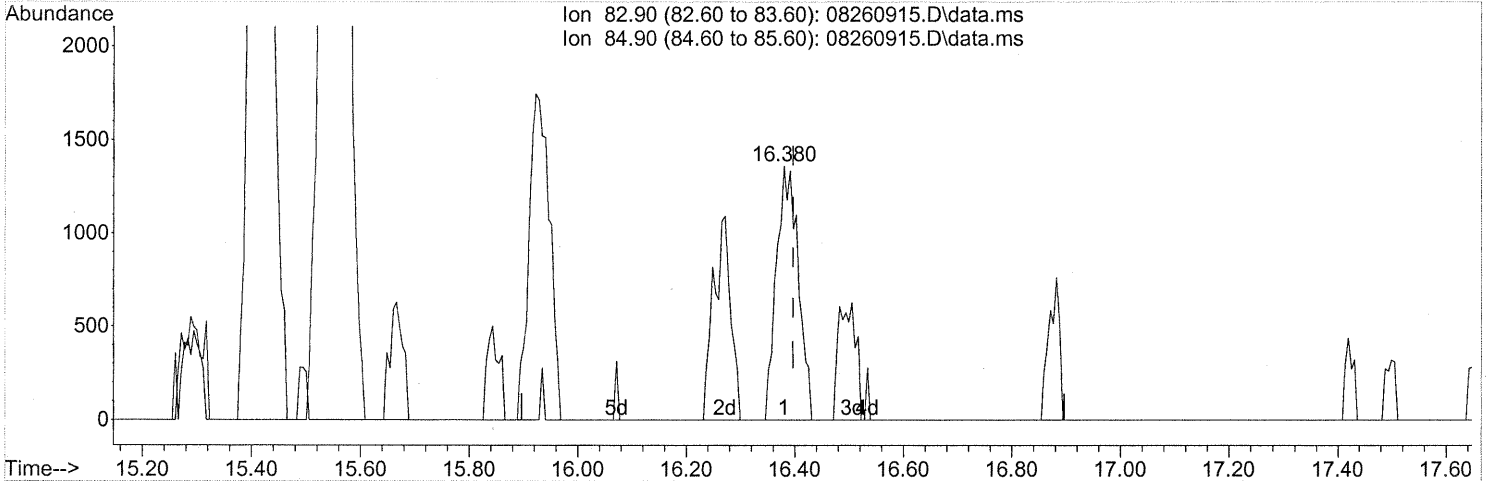
(43) Cyclohexane (T)
 15.289min (-0.028) 1.10ng
 response 21443

Ion	Exp%	Act%
84.10	100	100
69.10	38.70	37.54
56.10	127.50	123.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.380min (-0.017) 0.22ng

response 3800

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

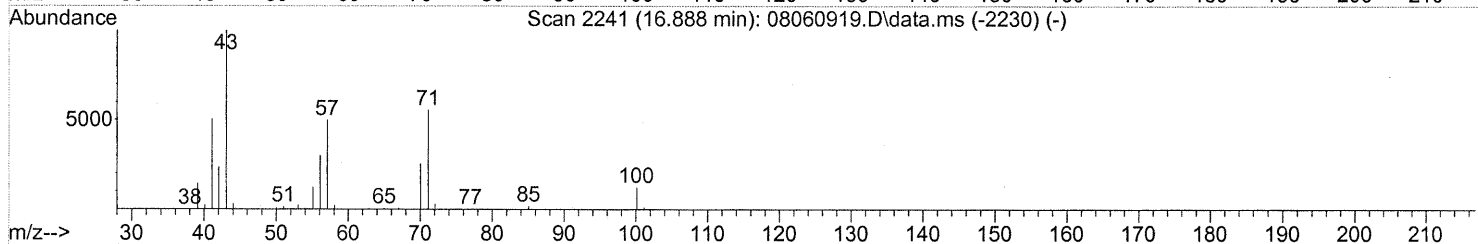
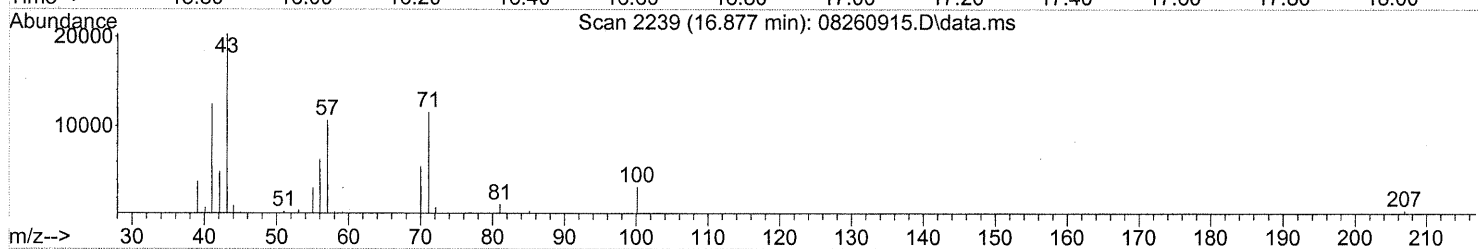
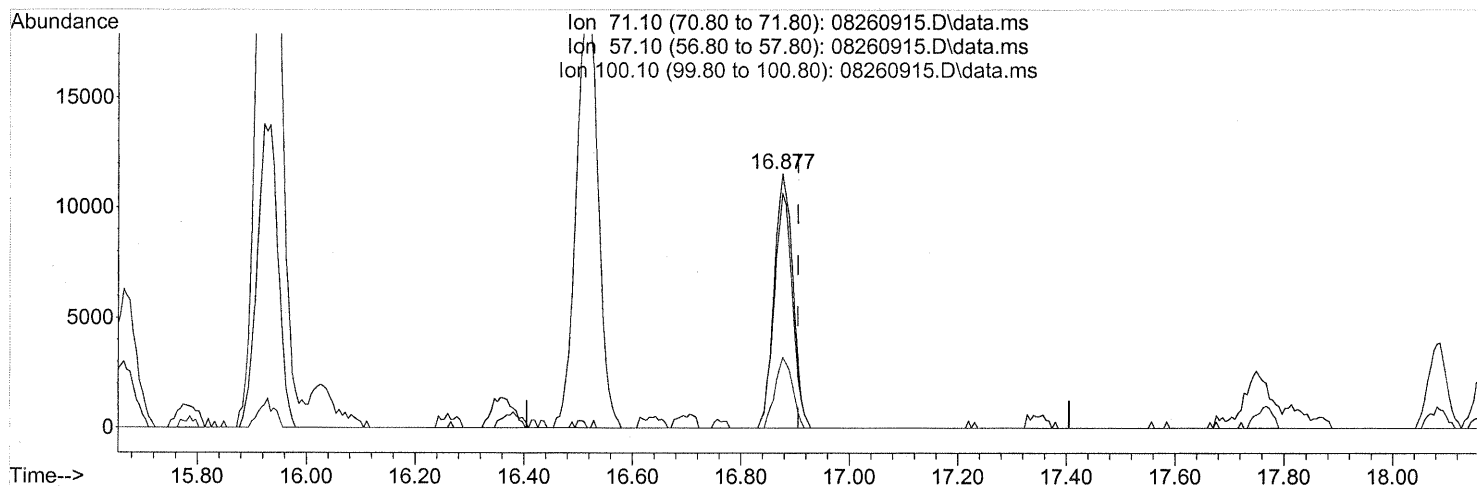
EP
11/9/09

R 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

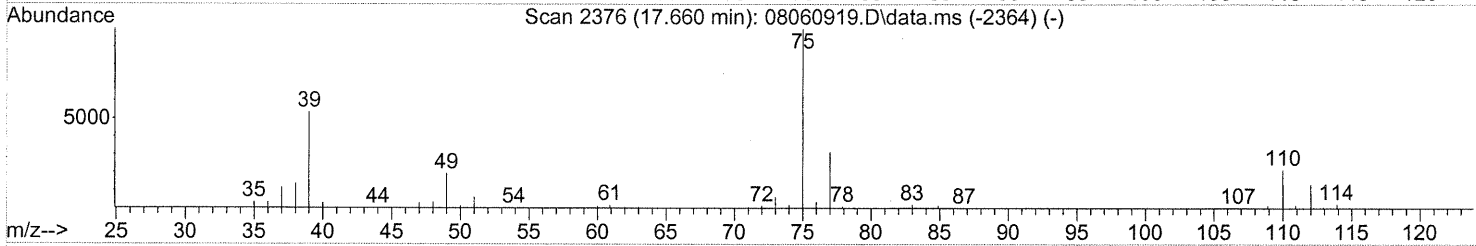
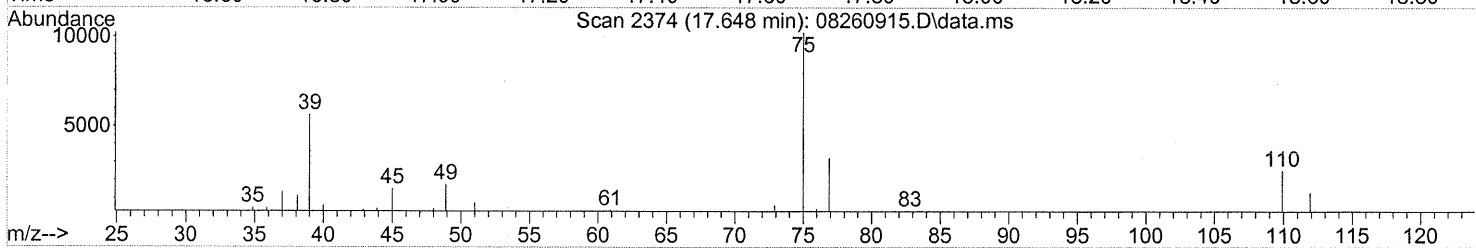
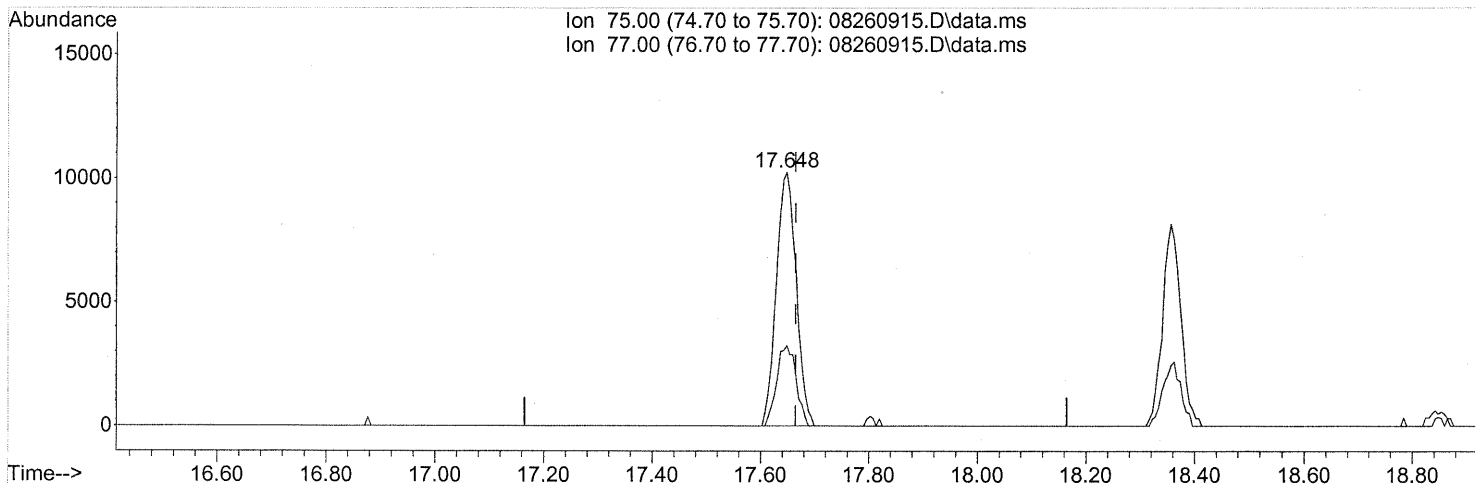
(51) n-Heptane (T)
 16.877min (-0.028) 1.94ng
 response 27600

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	89.31
100.10	26.40	25.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 1.18ng

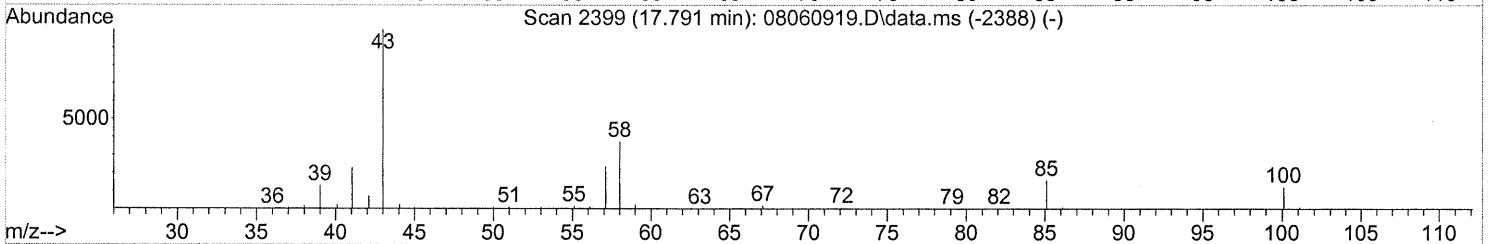
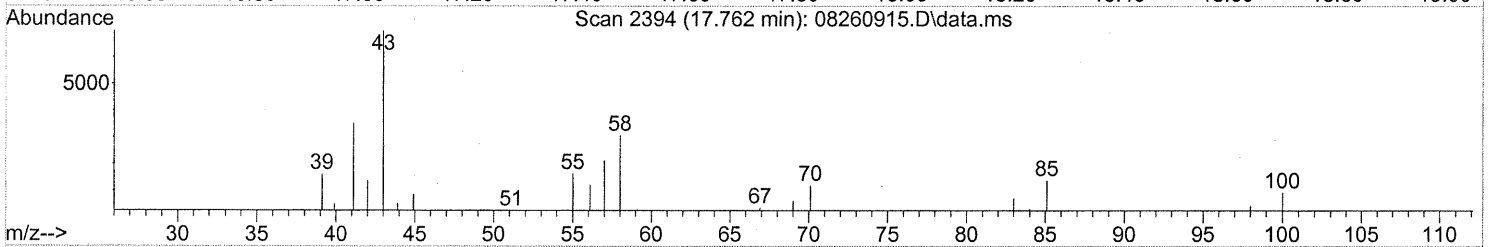
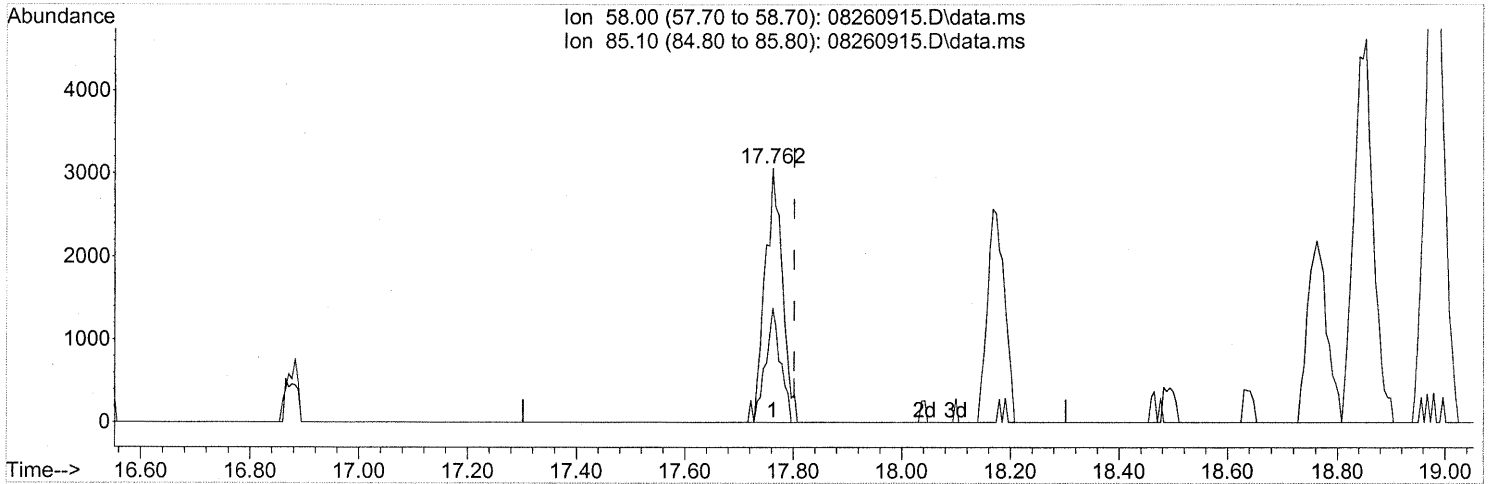
response 26196

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	30.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

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

17.762min (-0.040) 0.54ng

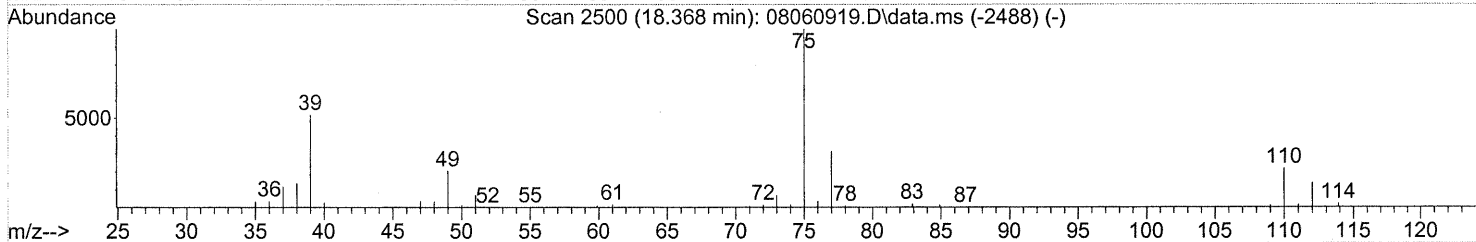
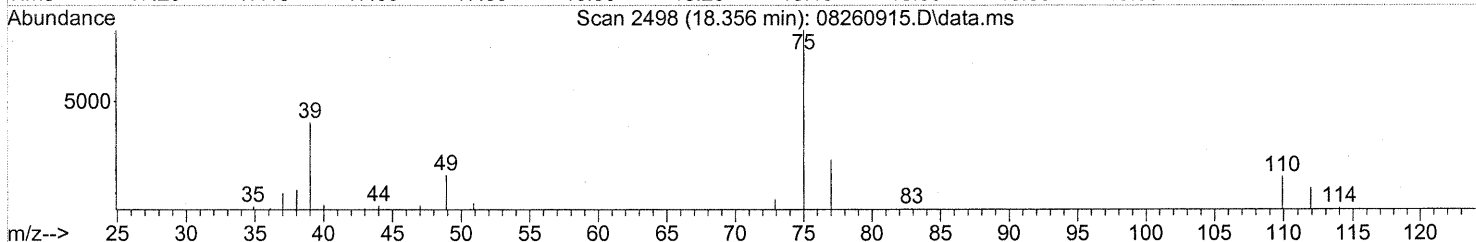
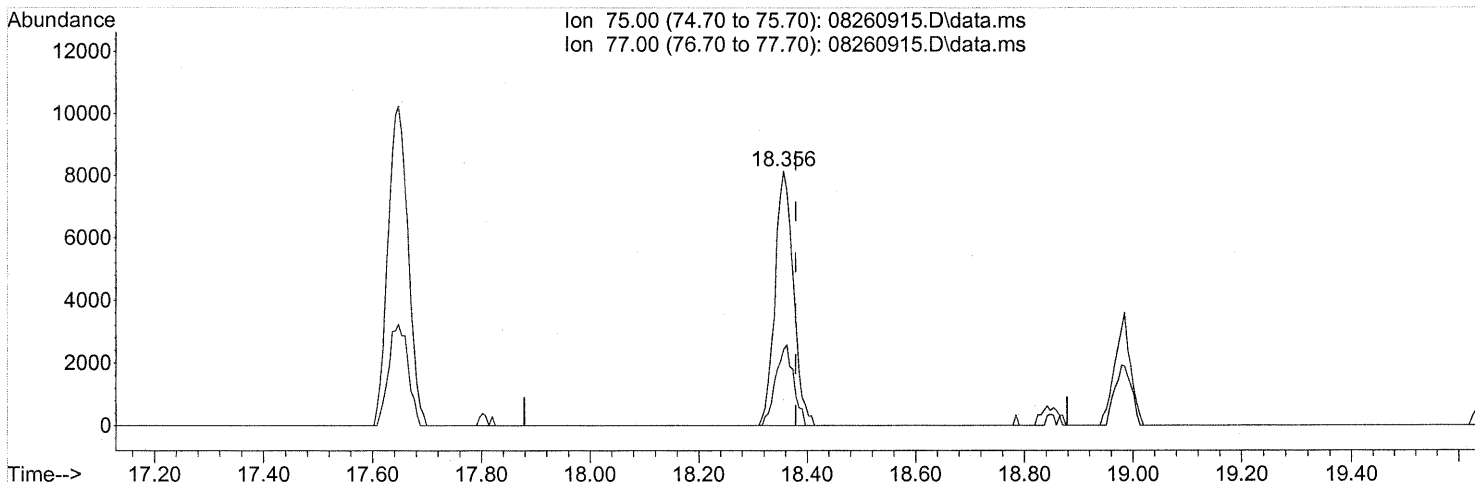
response 6899

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	38.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 0.91ng

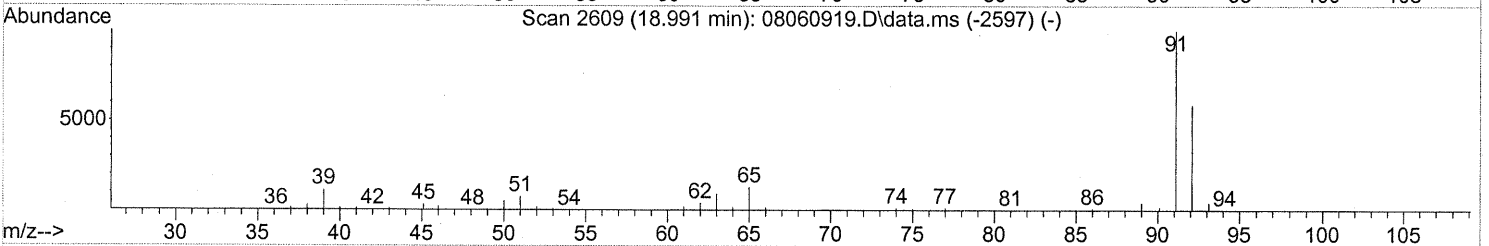
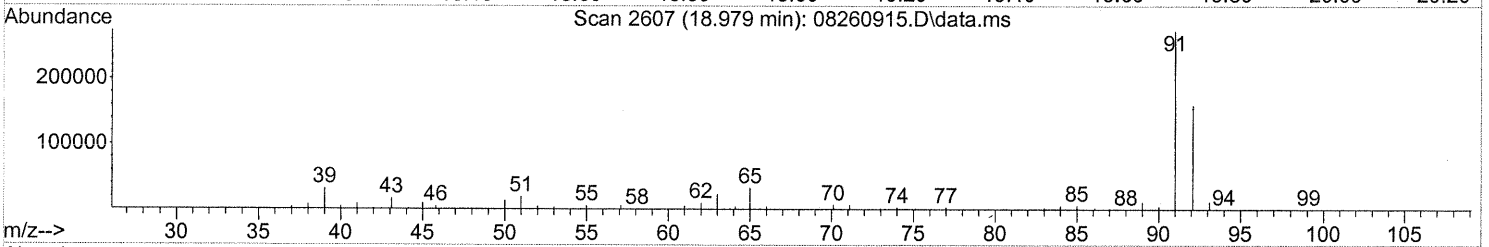
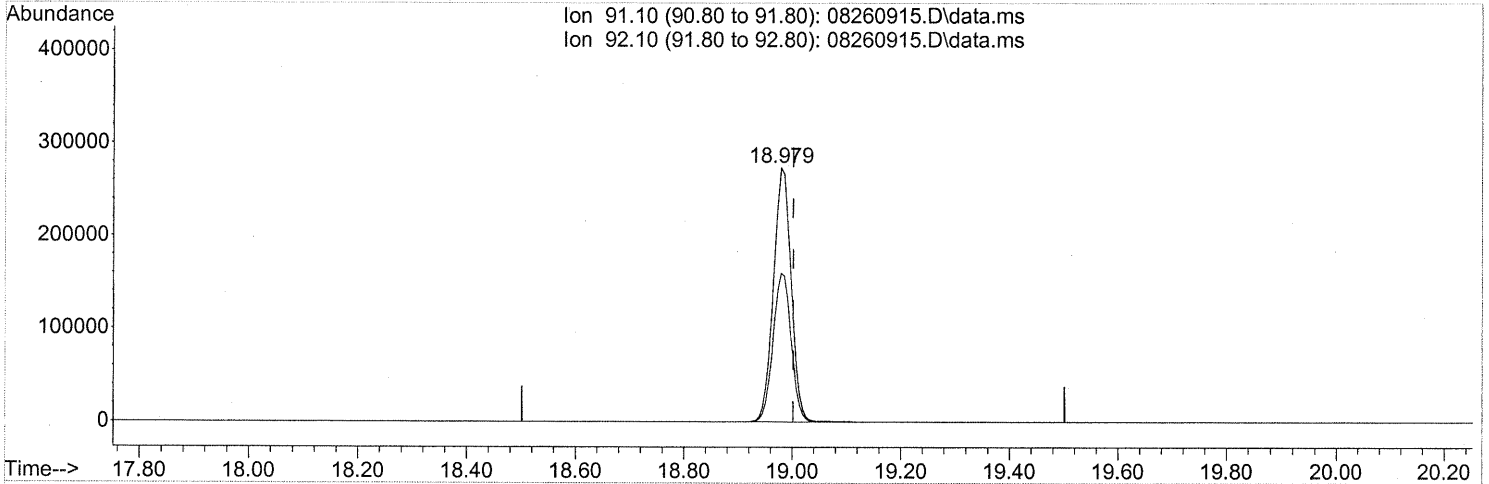
response 19187

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	30.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

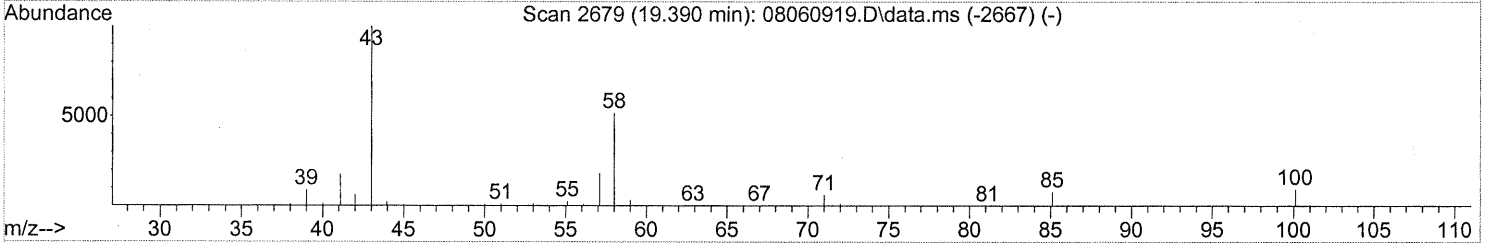
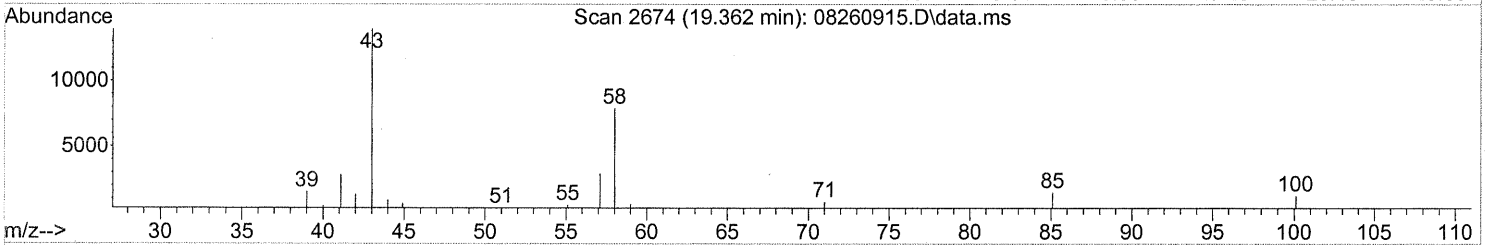
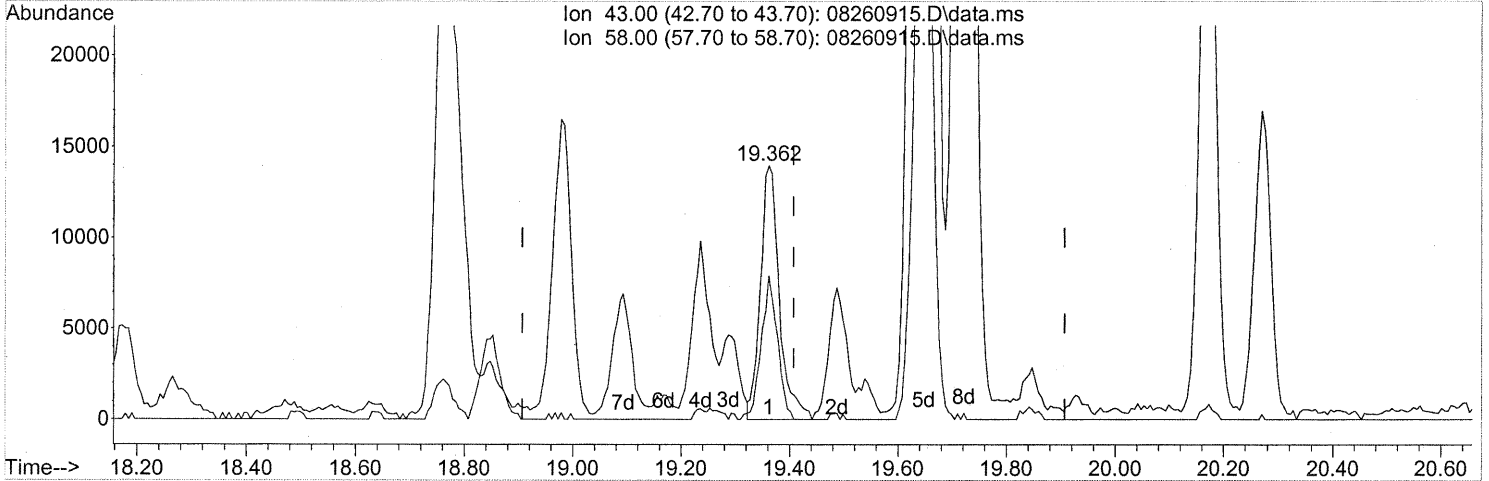
(58) Toluene (T)
 18.979min (-0.023) 12.49ng
 response 621970

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(59) 2-Hexanone (T)

19.362min (-0.046) 1.02ng

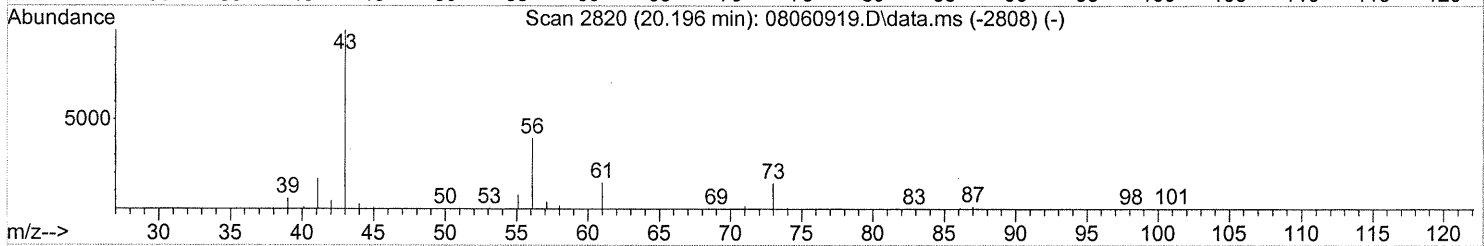
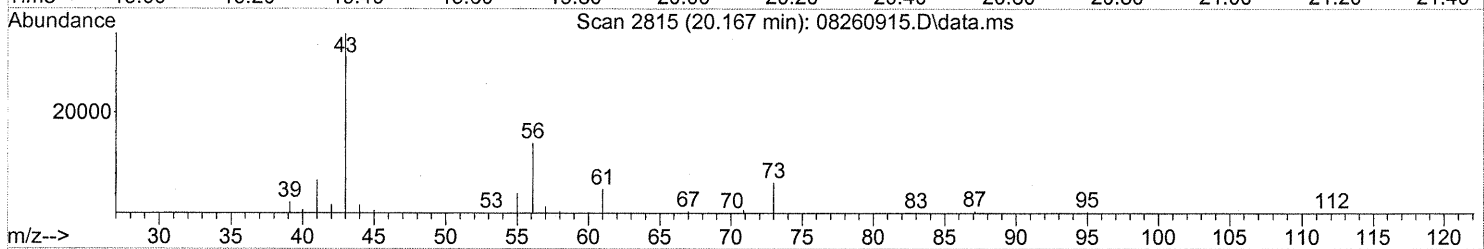
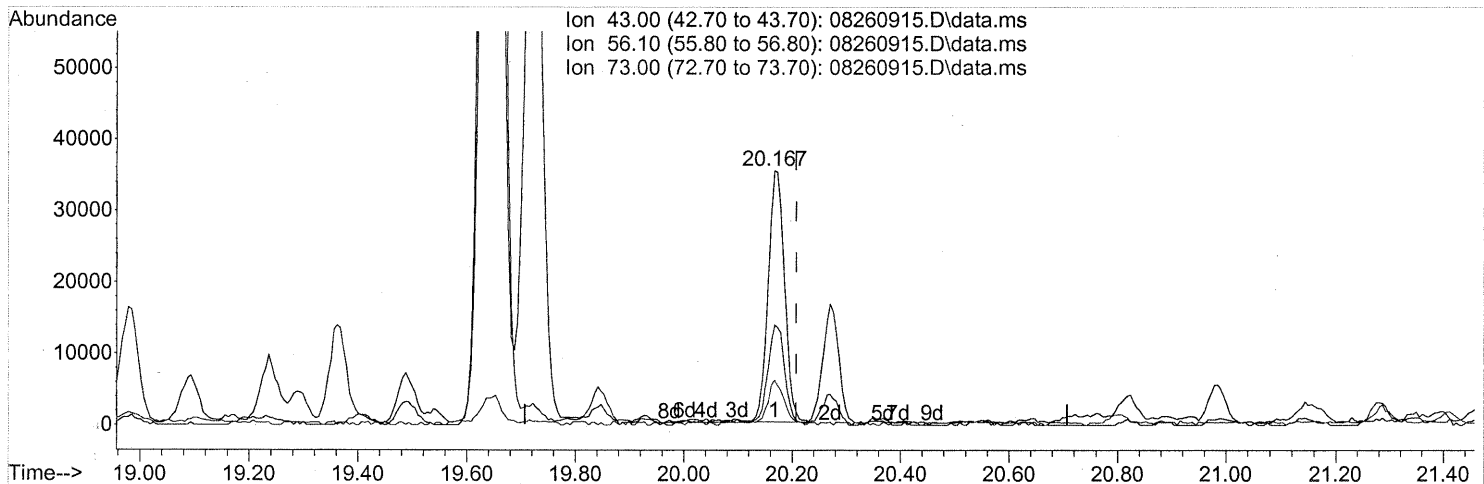
response 33715

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	48.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

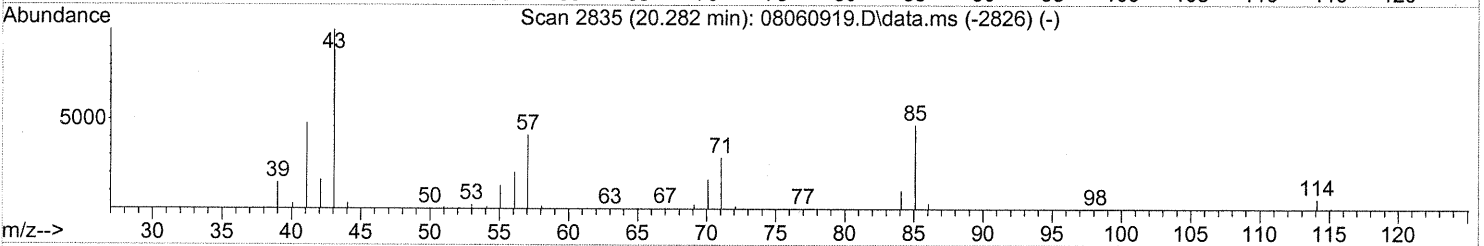
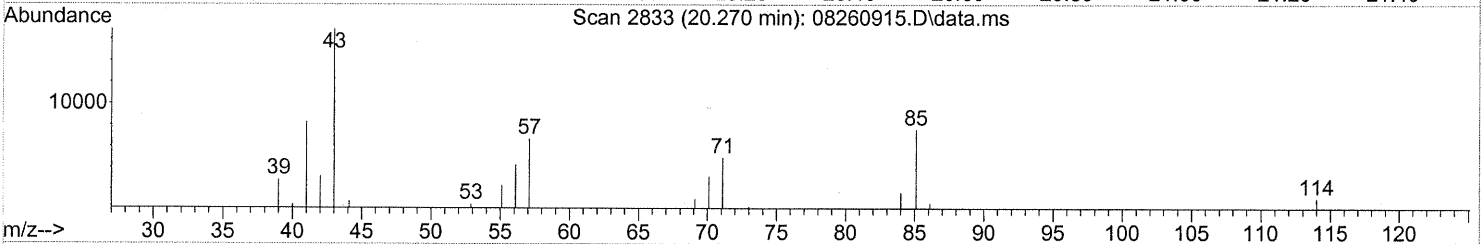
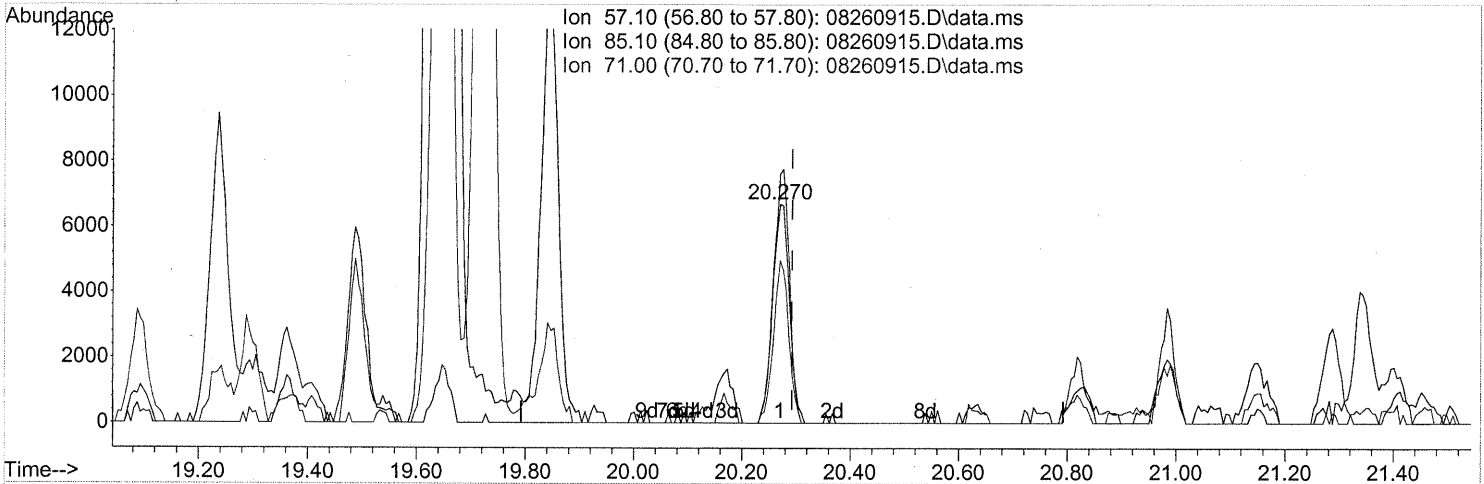
(62) n-Butyl Acetate (T)
 20.167min (-0.040) 1.88ng
 response 73474

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	39.58
73.00	14.80	18.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

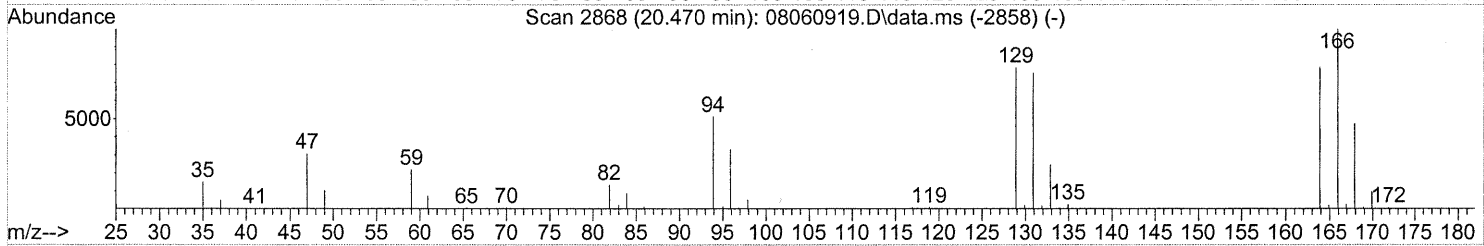
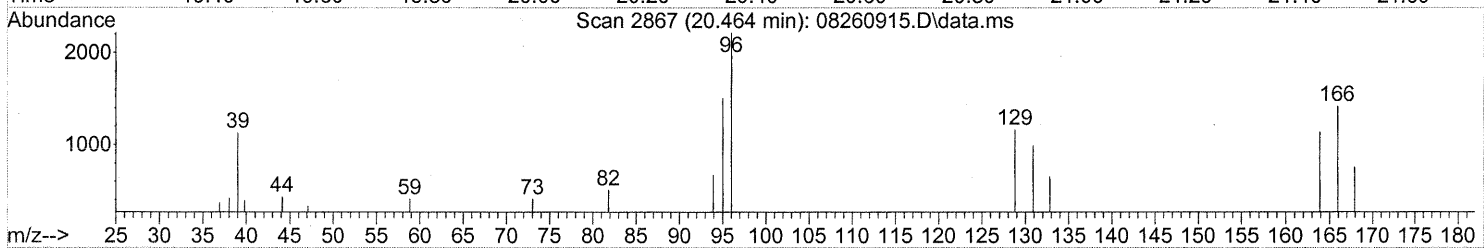
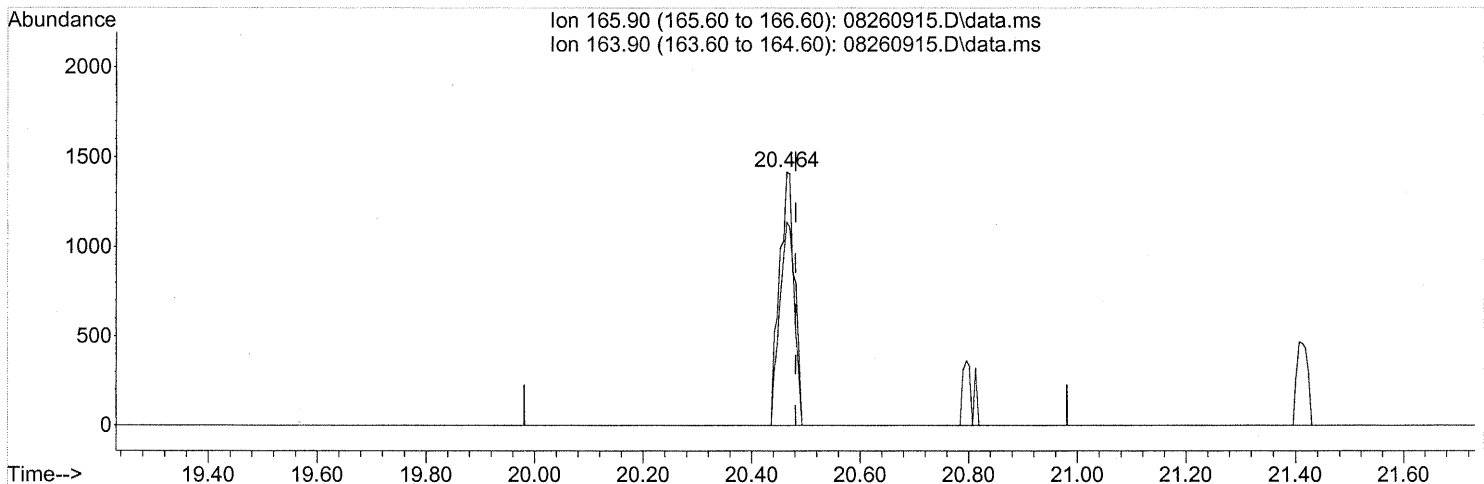
(63) n-Octane (T)
 20.270min (-0.023) 1.20ng
 response 14456

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	109.92
71.00	68.10	67.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260915.D
Acq On : 26 Aug 2009 20:09
Operator : WA/CC
Sample : P0902876-010 (1000mL)
Misc : Environmental Health 102474
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08260915.D\data.ms

(64) Tetrachloroethene (T)

20.464min (-0.017) 0.24ng

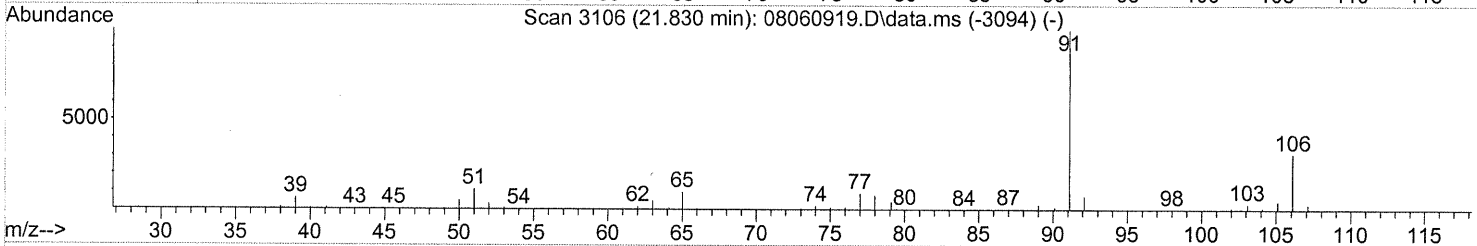
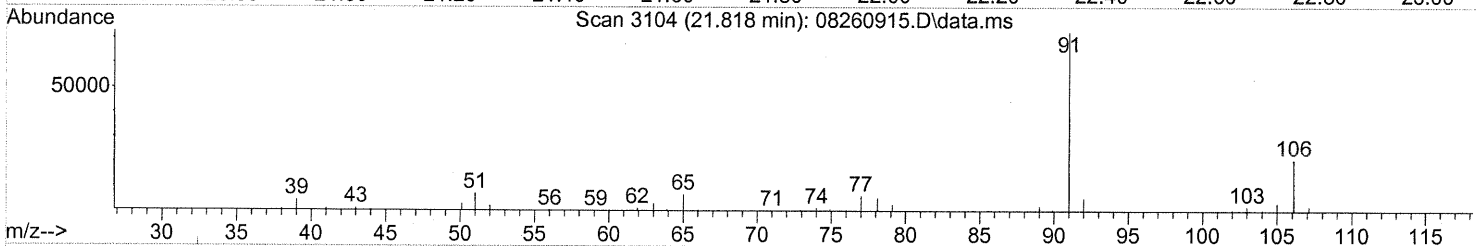
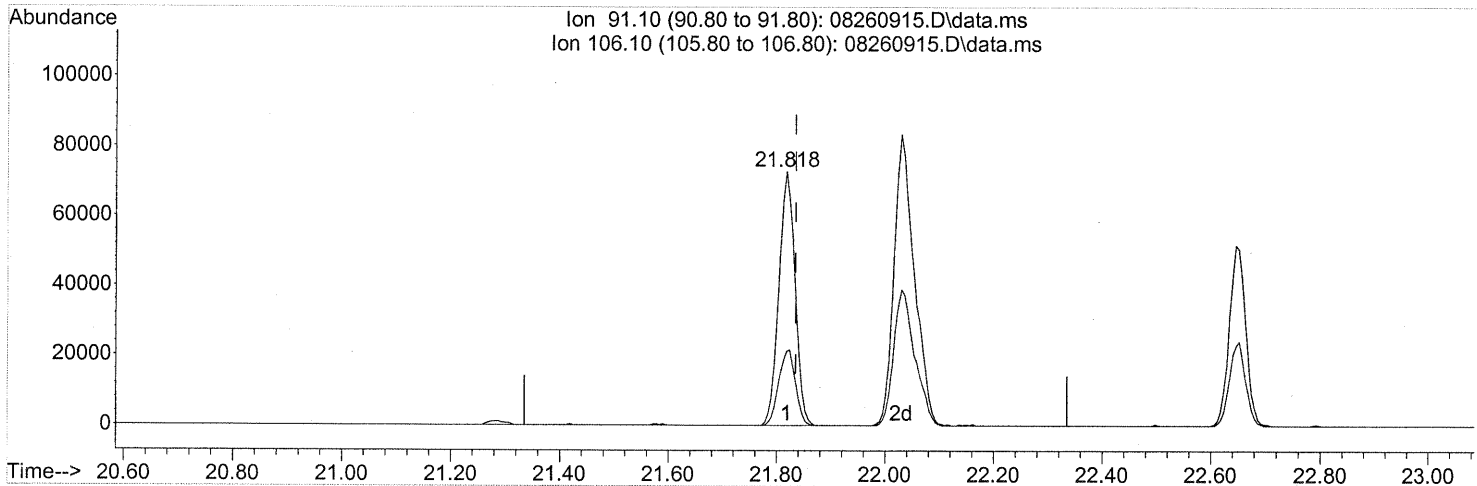
response 2756

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

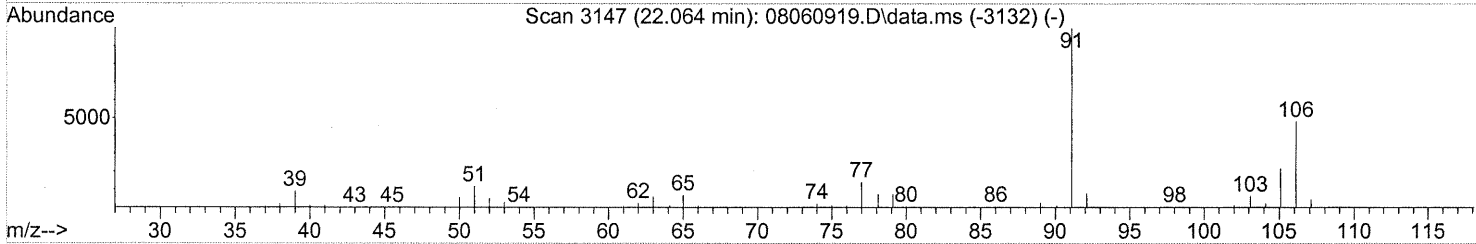
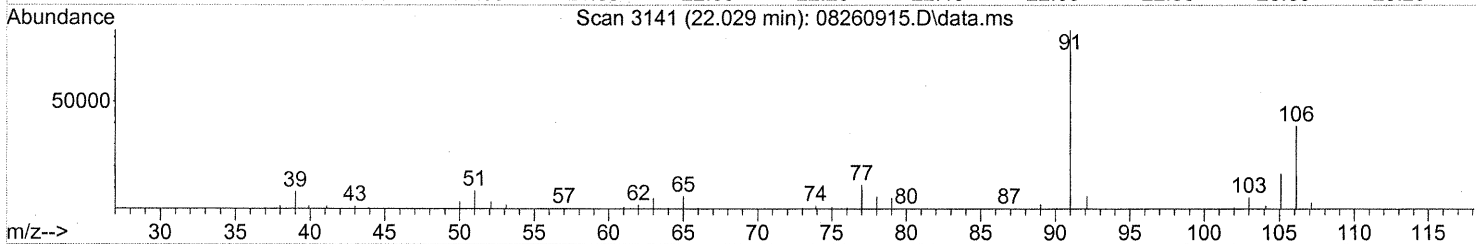
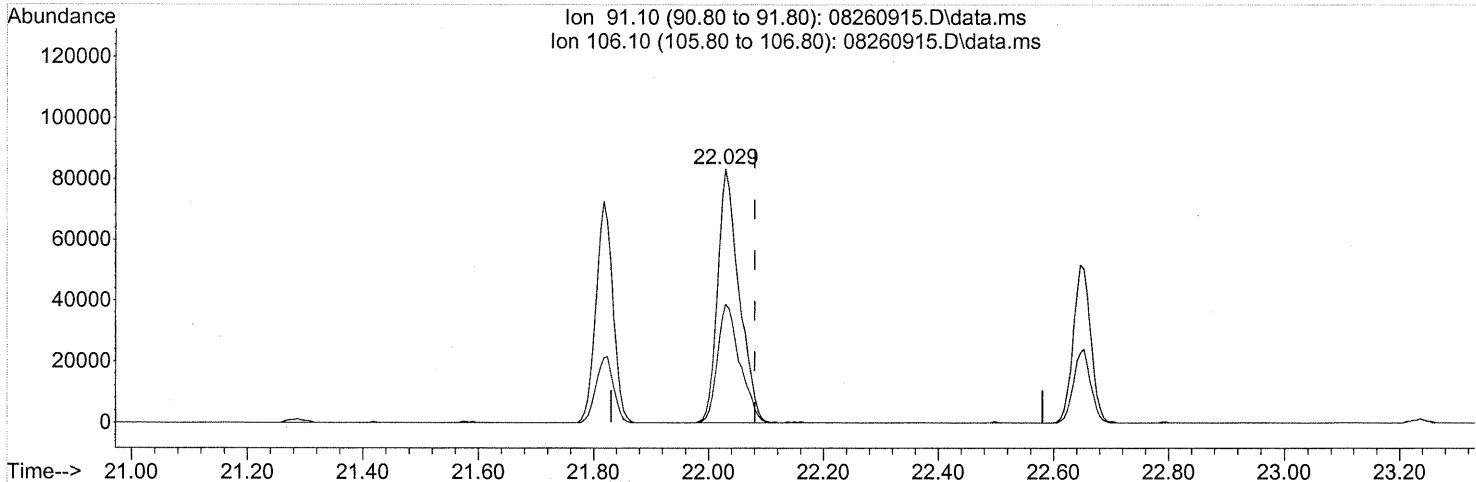
(66) Ethylbenzene (T)
 21.818min (-0.017) 2.62ng
 response 149228

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

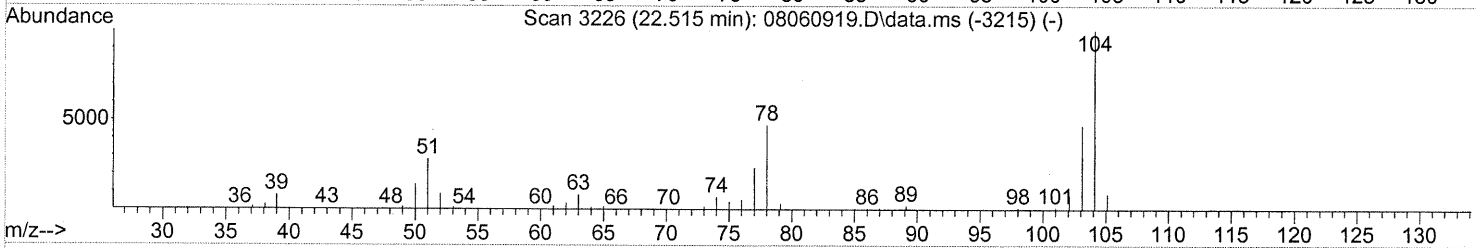
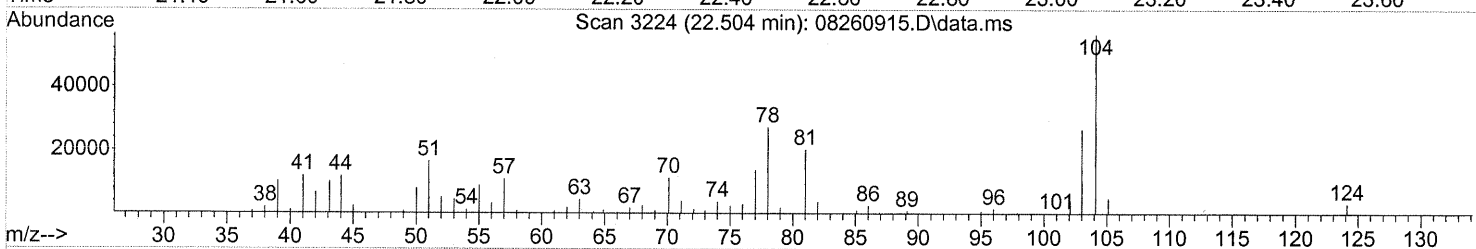
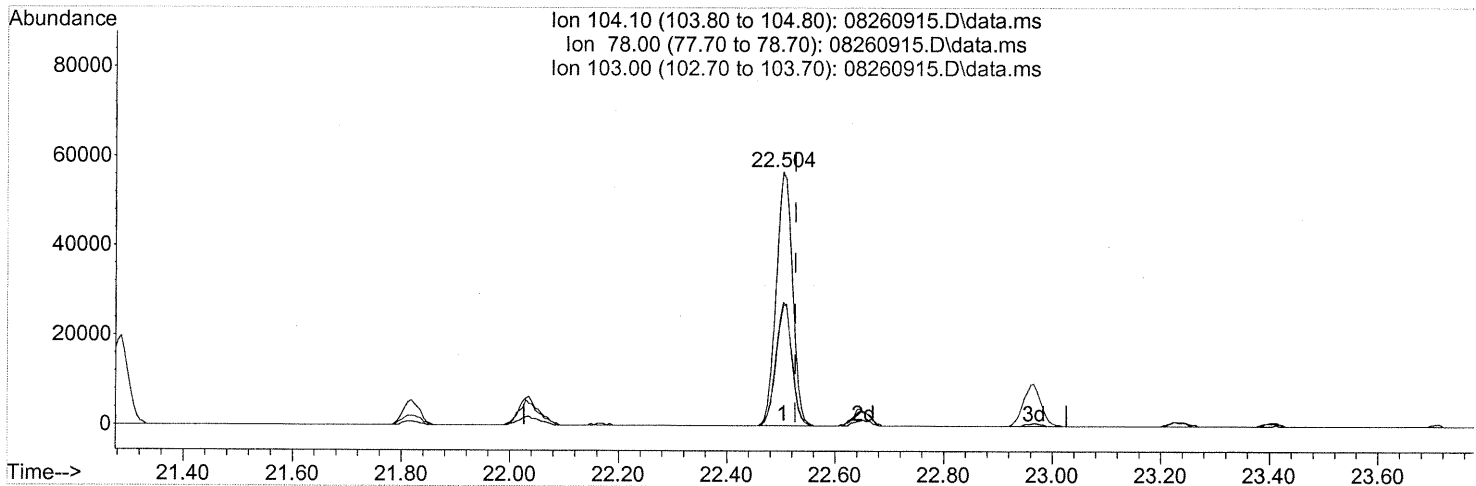
(67) m- & p-Xylenes (T)
 22.029min (-0.051) 4.71ng
 response 216769

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	48.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

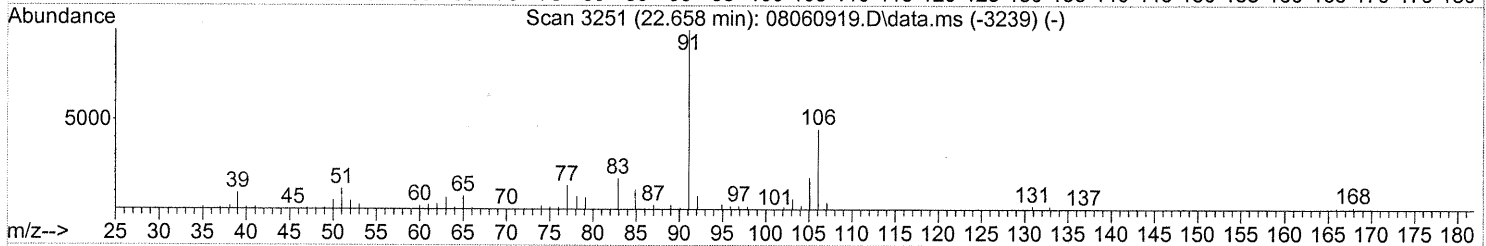
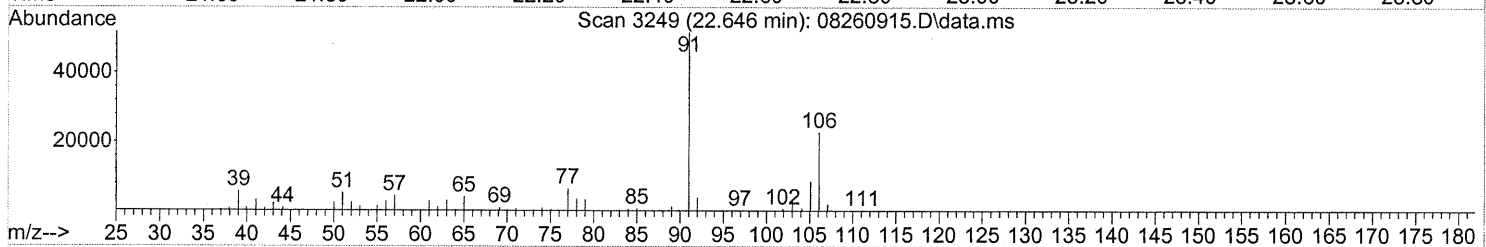
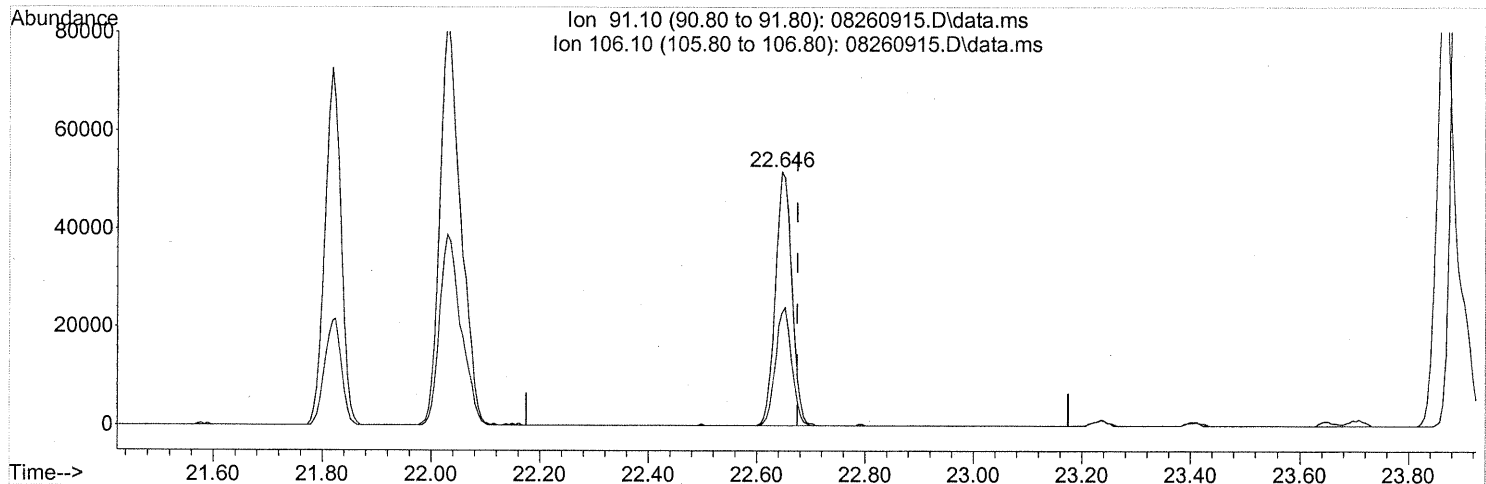
(69) Styrene (T)
 22.504min (-0.023) 3.56ng
 response 118539

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	47.16
103.00	46.20	47.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

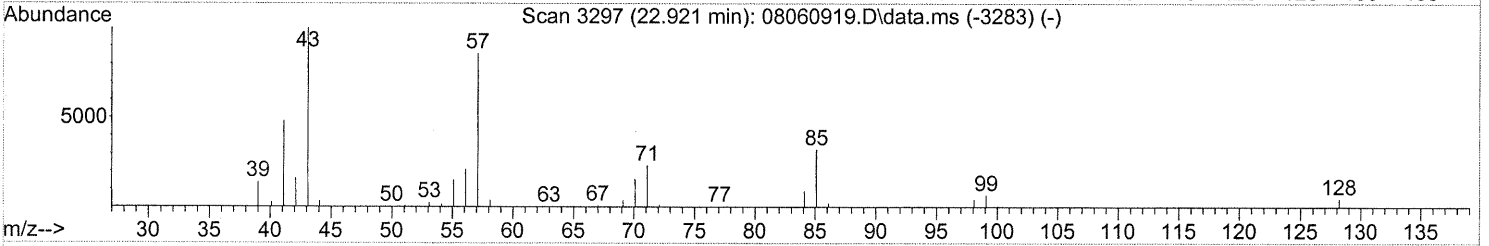
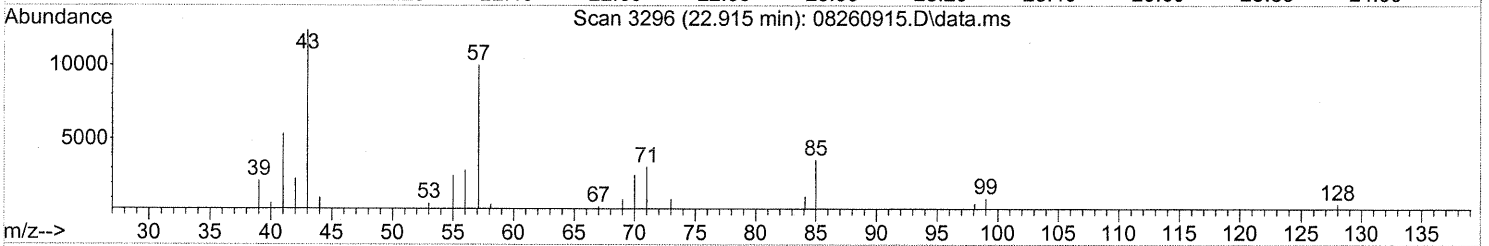
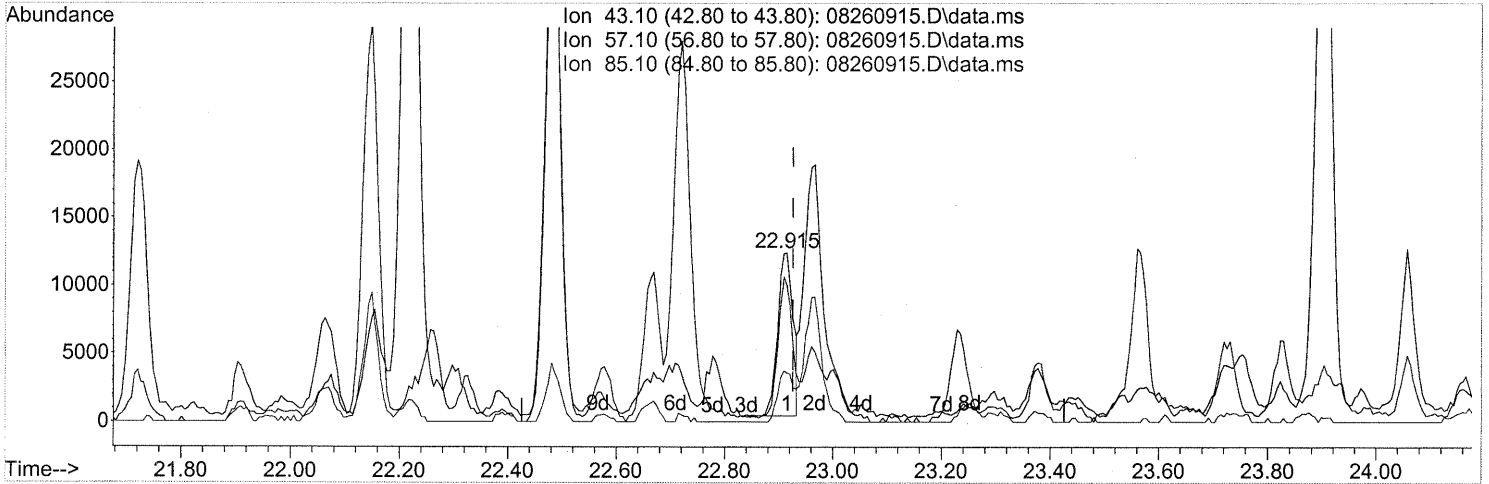
(70) o-Xylene (T)
 22.646min (-0.028) 2.36ng
 response 108822

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

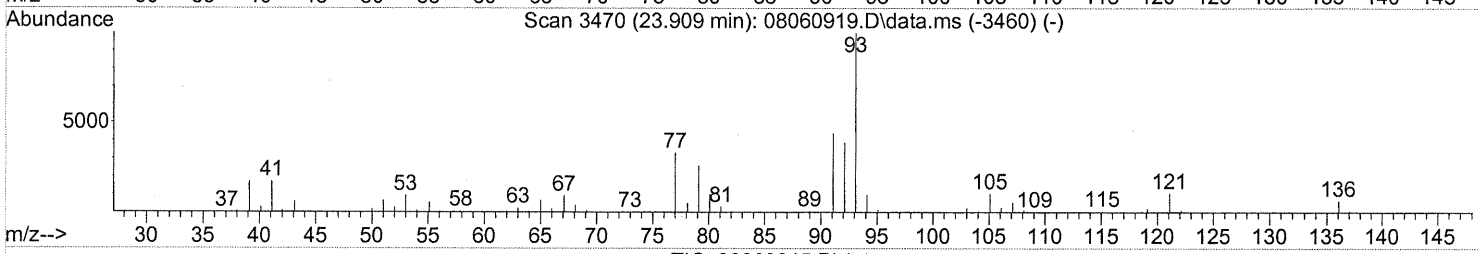
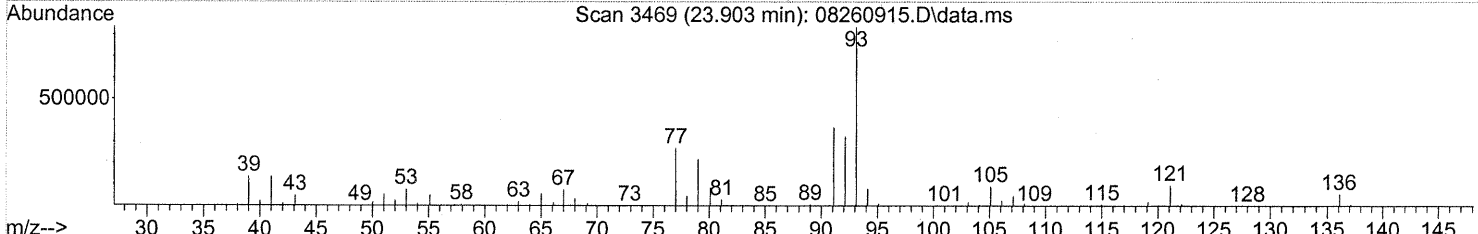
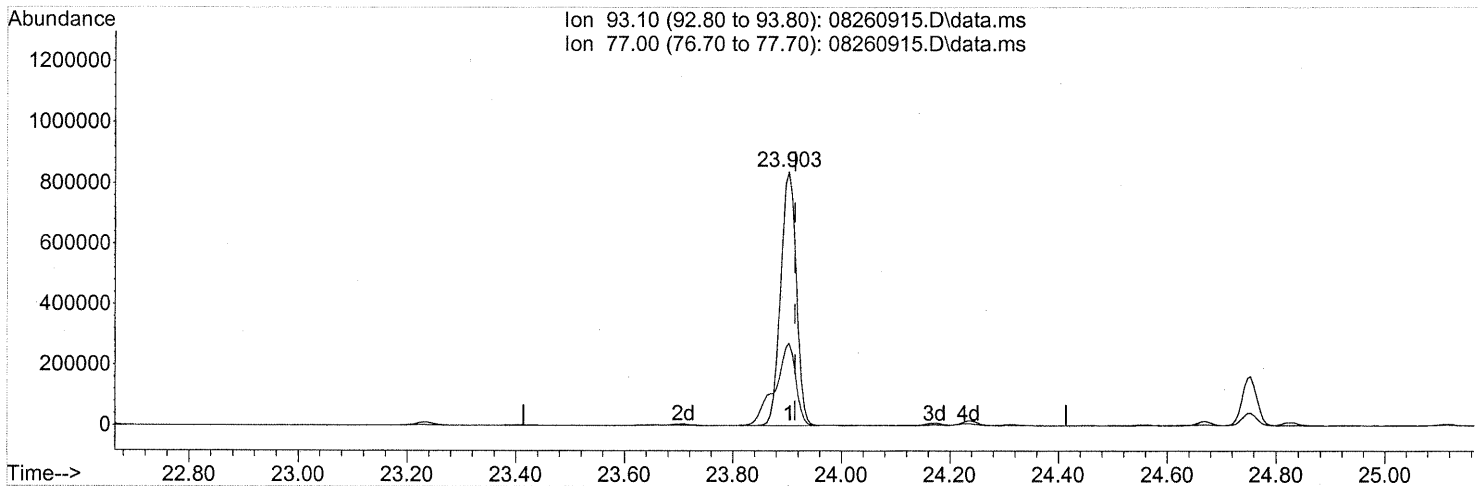
(71) n-Nonane (T)
 22.915min (-0.011) 0.77ng
 response 23467

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	87.61
85.10	30.40	32.46
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

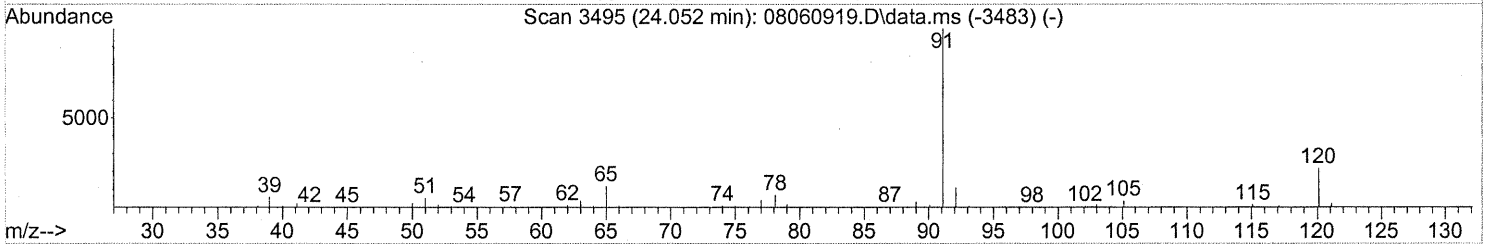
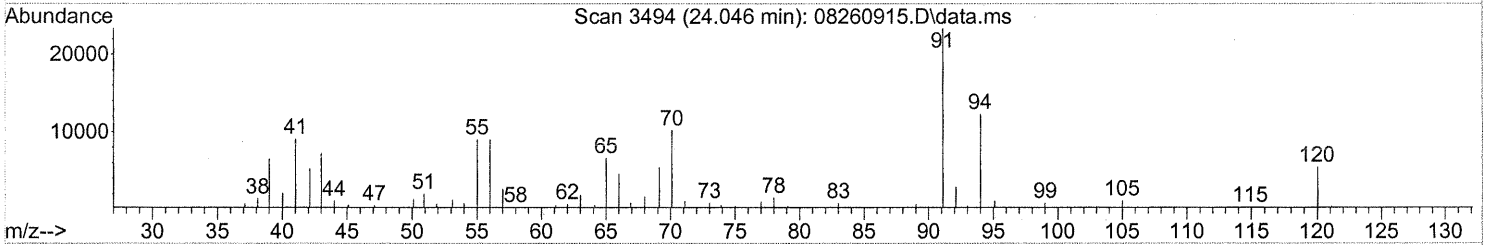
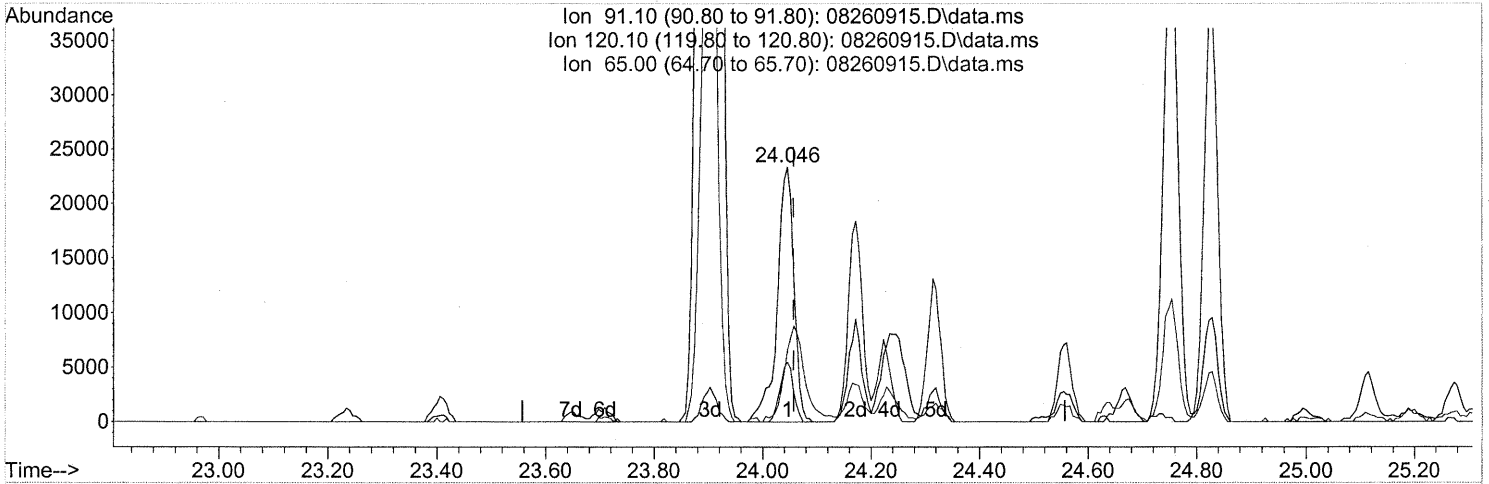
(75) alpha-Pinene (T)
 23.903min (-0.011) 55.71ng
 response 1665055

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	43.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.011) 0.68ng

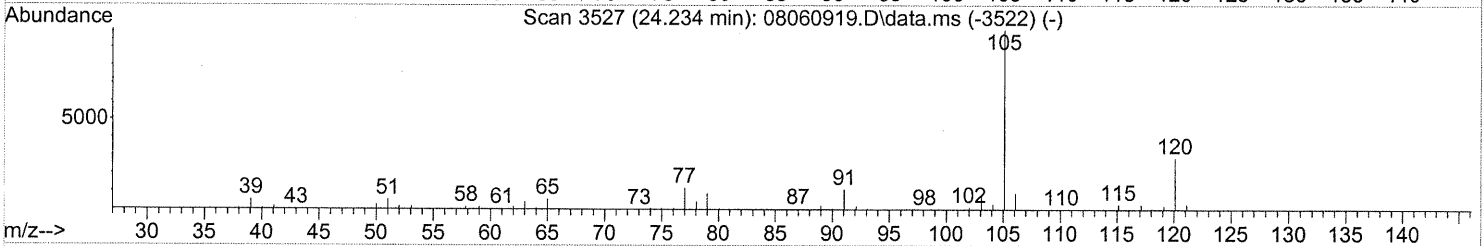
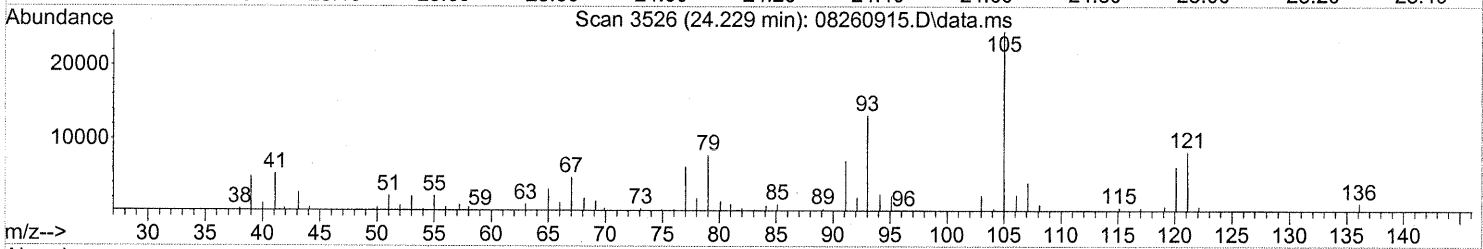
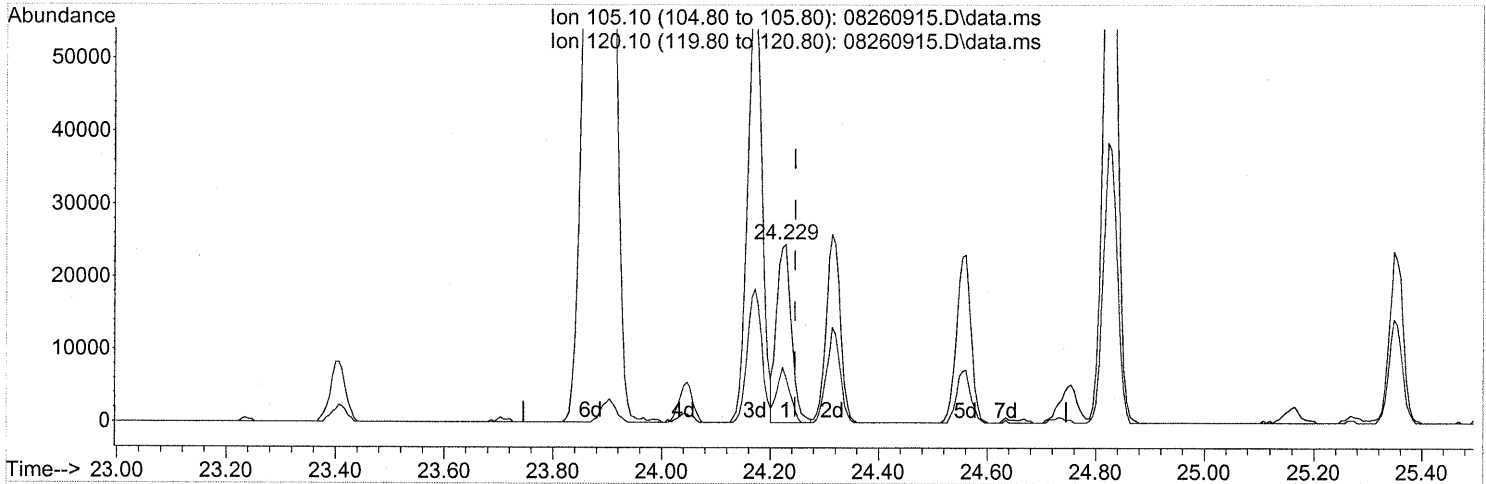
response 49654

Ion	Exp%	Act%
91.10	100	100
120.10	21.60	18.76
65.00	12.00	45.91#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

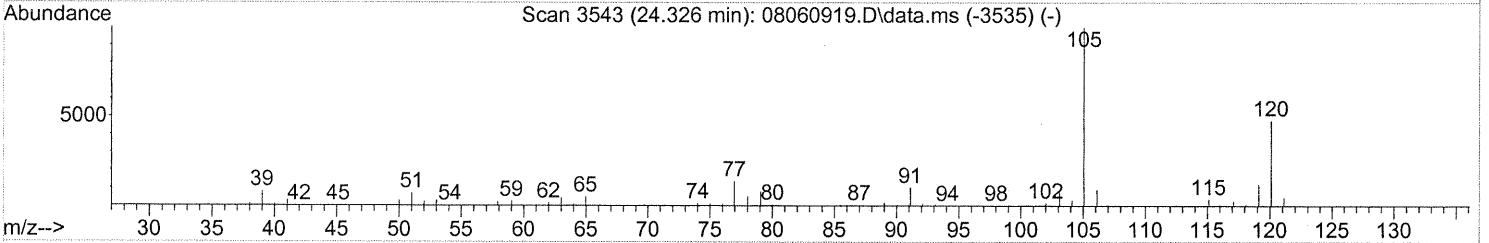
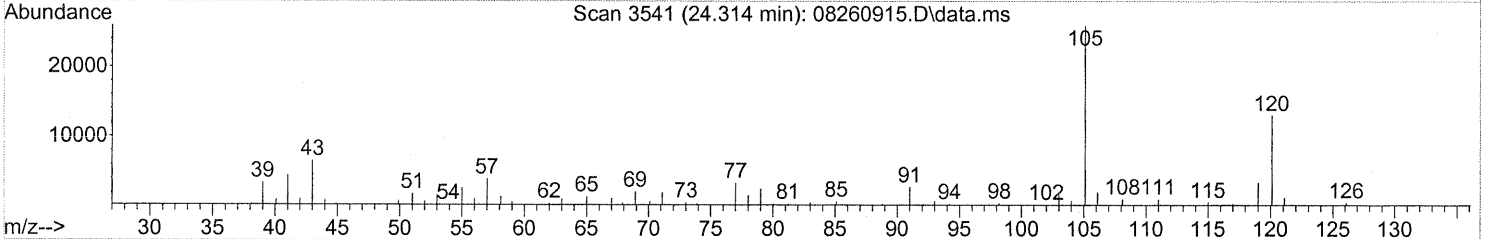
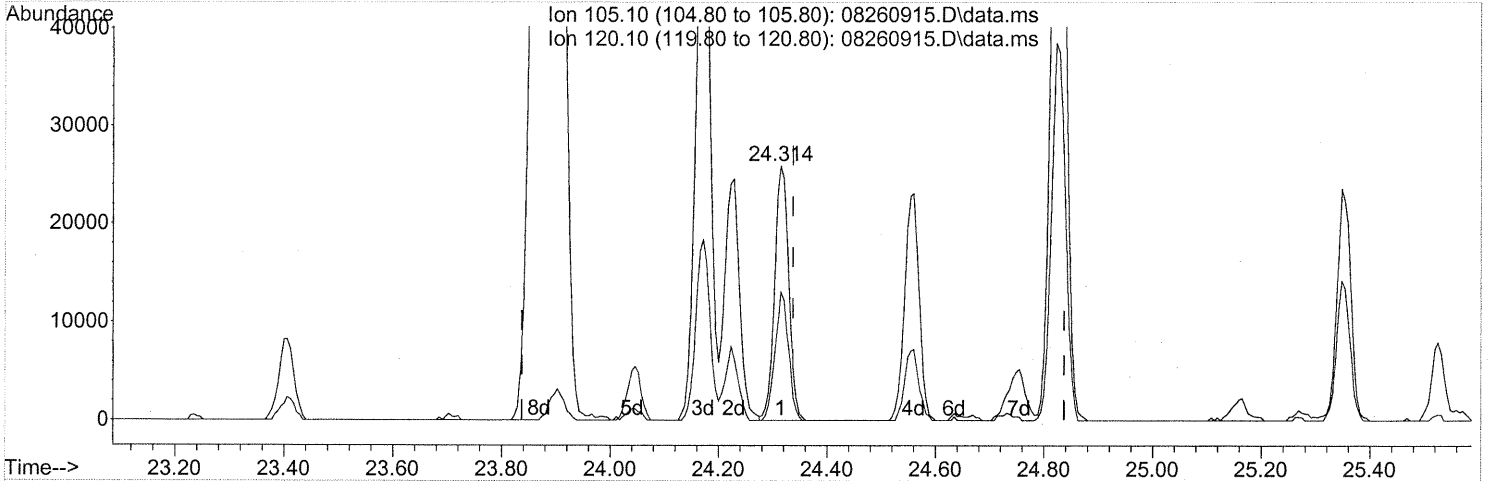
(78) 4-Ethyltoluene (T)
 24.229min (-0.017) 0.86ng
 response 46382

Ion	Exp%	Act%
105.10	100	100
120.10	28.40	26.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

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

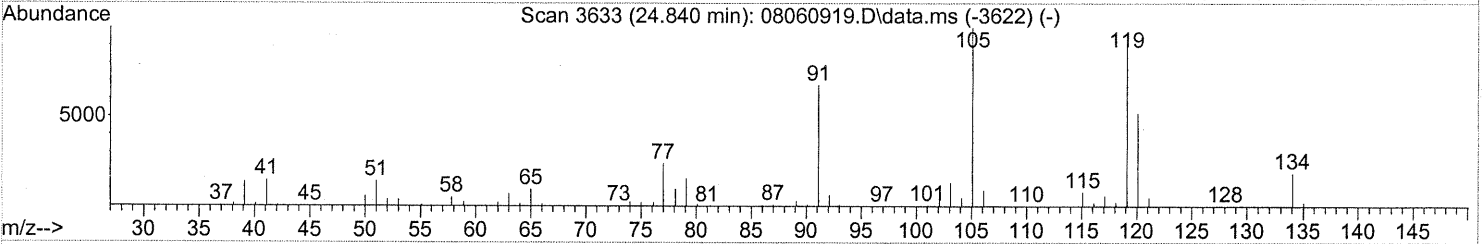
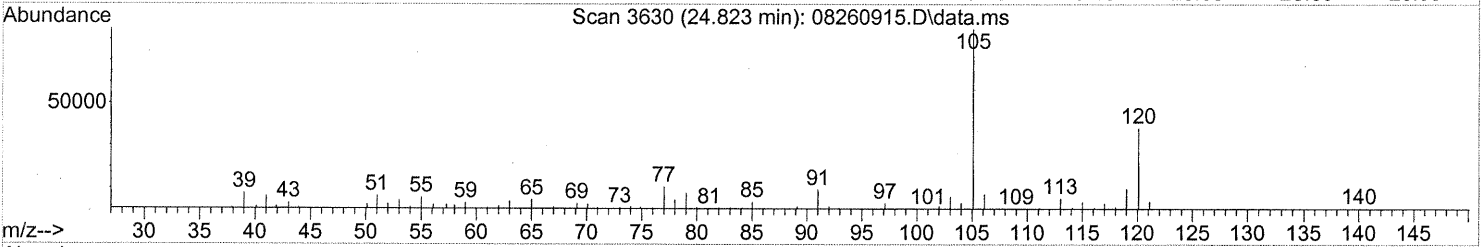
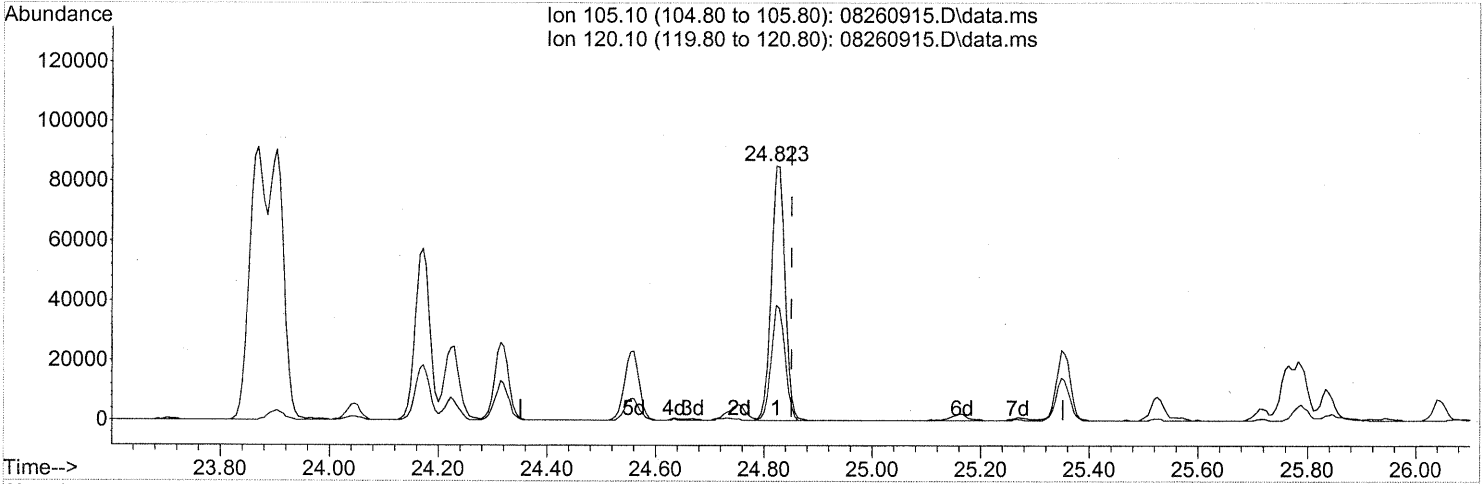
24.314min (-0.023) 1.03ng
 response 46721

Ion	Exp%	Act%
105.10	100	100
120.10	46.80	48.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

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

24.823min (-0.028) 3.27ng

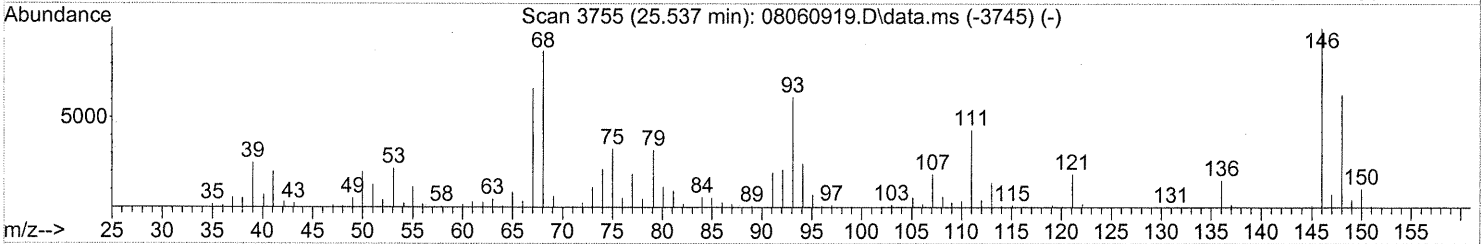
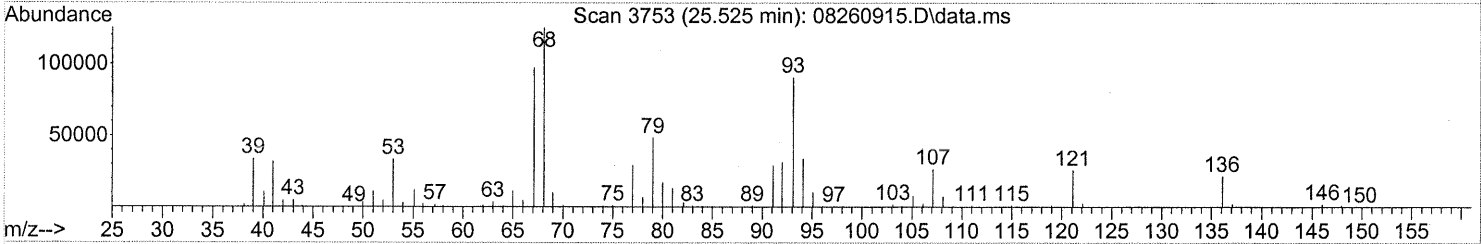
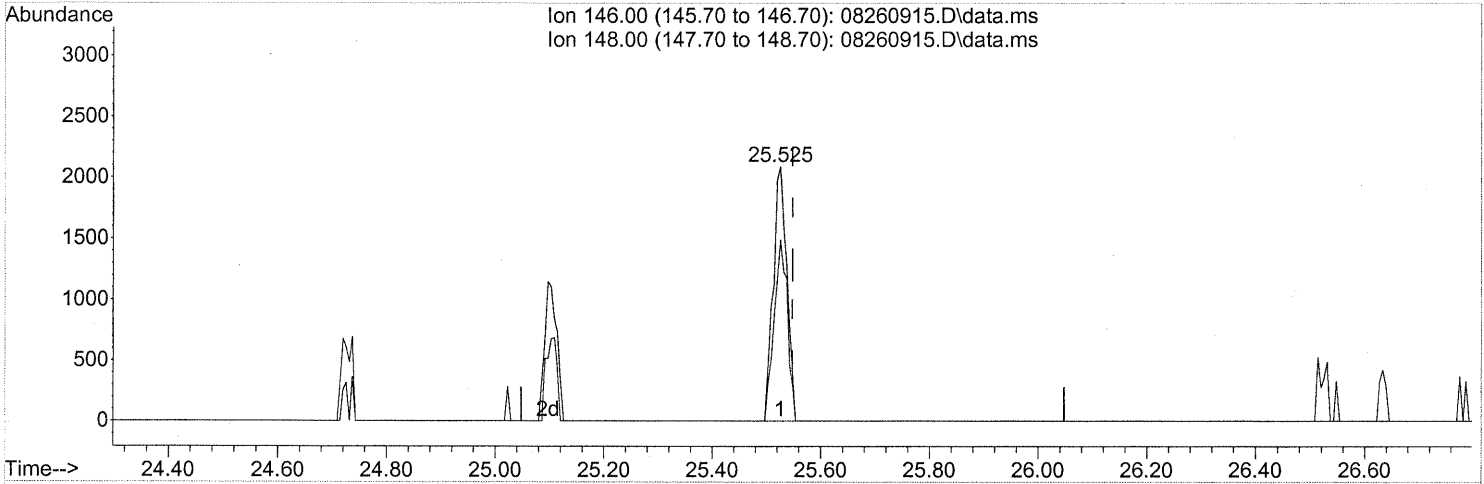
response 151780

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.525min (-0.023) 0.16ng

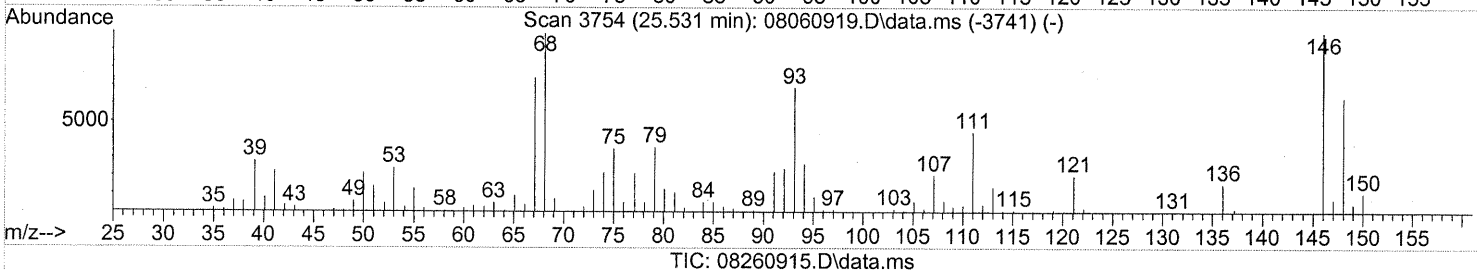
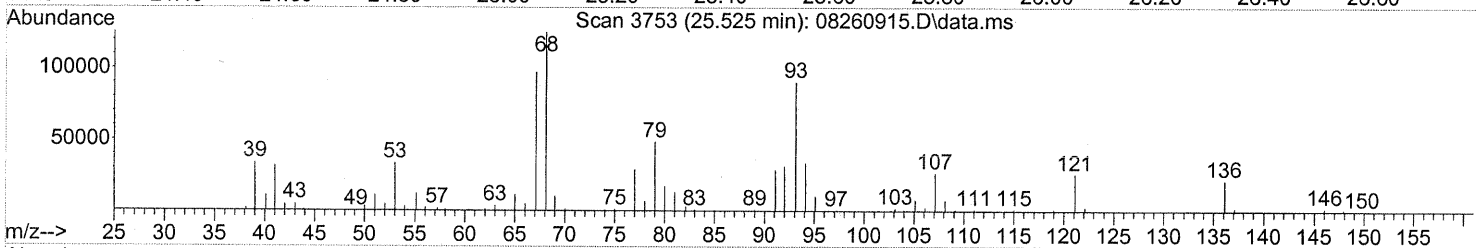
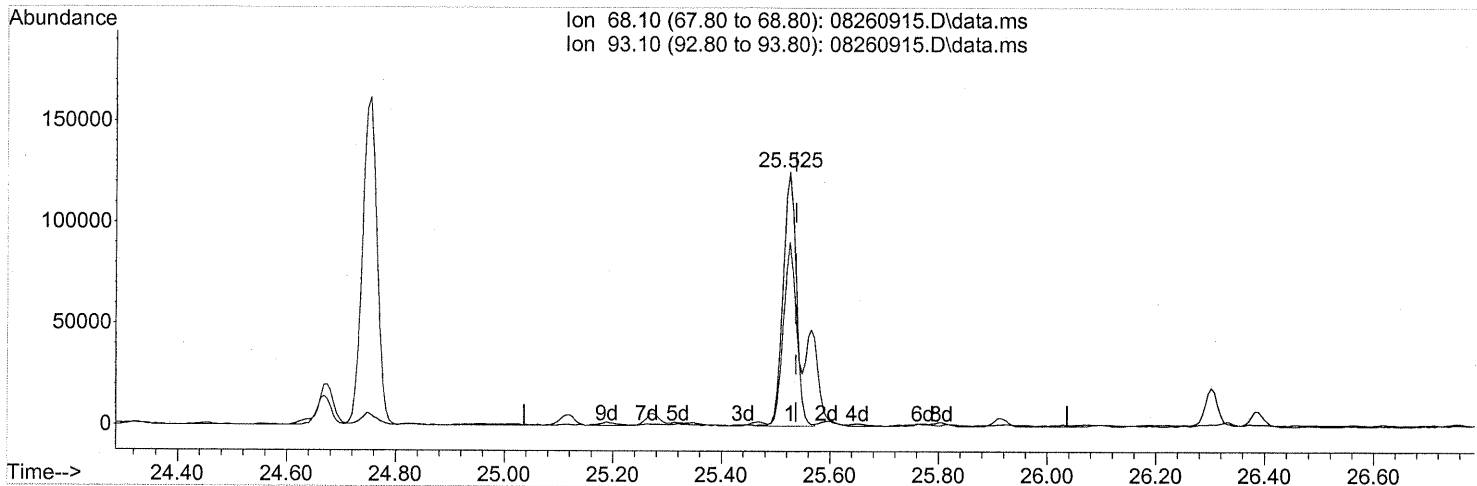
response 3632

Ion	Exp%	Act%
146.00	100	100
148.00	63.70	69.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



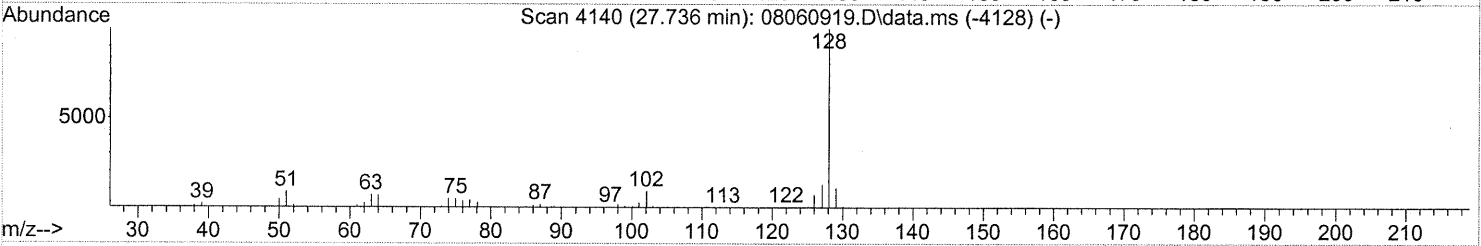
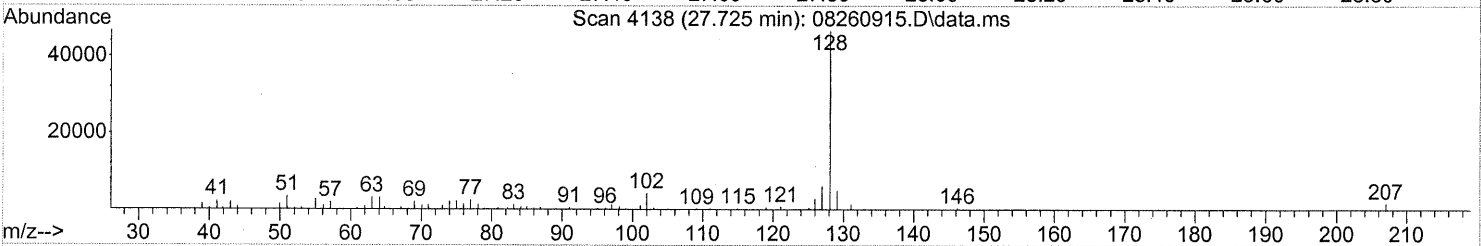
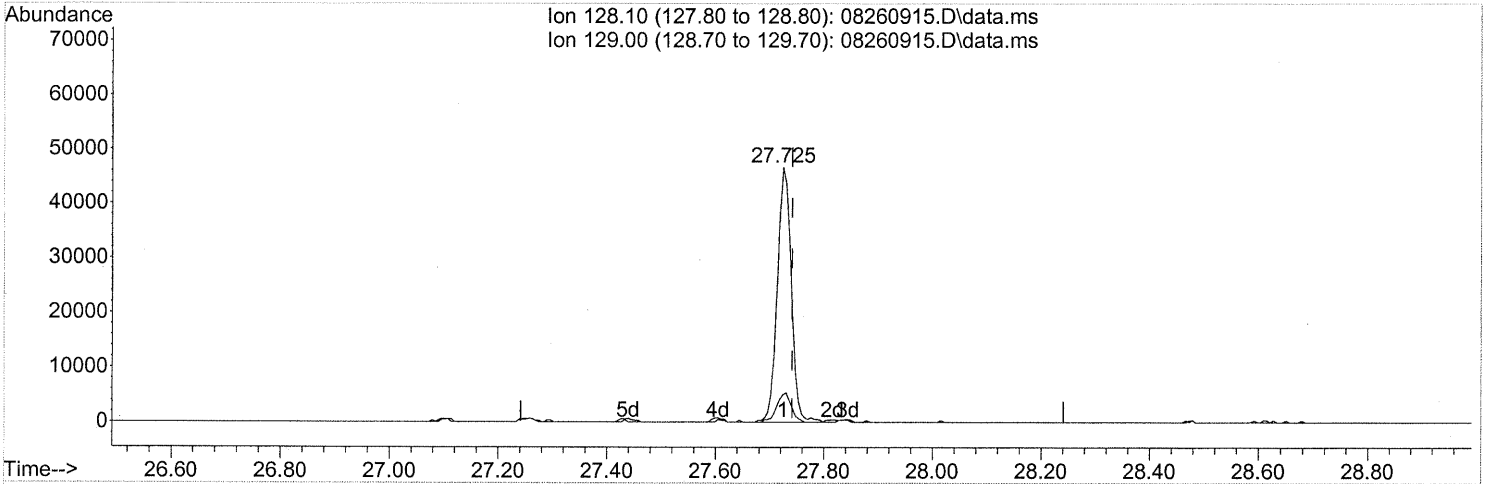
(91) d-Limonene (T)
 25.525min (-0.011) 10.64ng
 response 210056

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	72.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260915.D
 Acq On : 26 Aug 2009 20:09
 Operator : WA/CC
 Sample : P0902876-010 (1000mL)
 Misc : Environmental Health 102474
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 27 06:21:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260915.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.017) 1.32ng
 response 83302

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.85
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: 102475
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01659

CAS Project ID: P0902876
CAS Sample ID: P0902876-011

Date Collected: 8/19/09
Date Received: 8/20/09
Date Analyzed: 8/26/09
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
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	8.5	5.0	3.6	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)	1.3	0.50	0.43	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: 9/2/09 **486**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102475
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01659

CAS Project ID: P0902876
 CAS Sample ID: P0902876-011

Date Collected: 8/19/09
 Date Received: 8/20/09
 Date Analyzed: 8/26/09
 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.

Verified By:  Date: 9/8/09 **487**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102475
Client Project ID: 16512

CAS Project ID: P0902876
 CAS Sample ID: P0902876-011

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01659

Date Collected: 8/19/09
 Date Received: 8/20/09
 Date Analyzed: 8/26/09
 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:



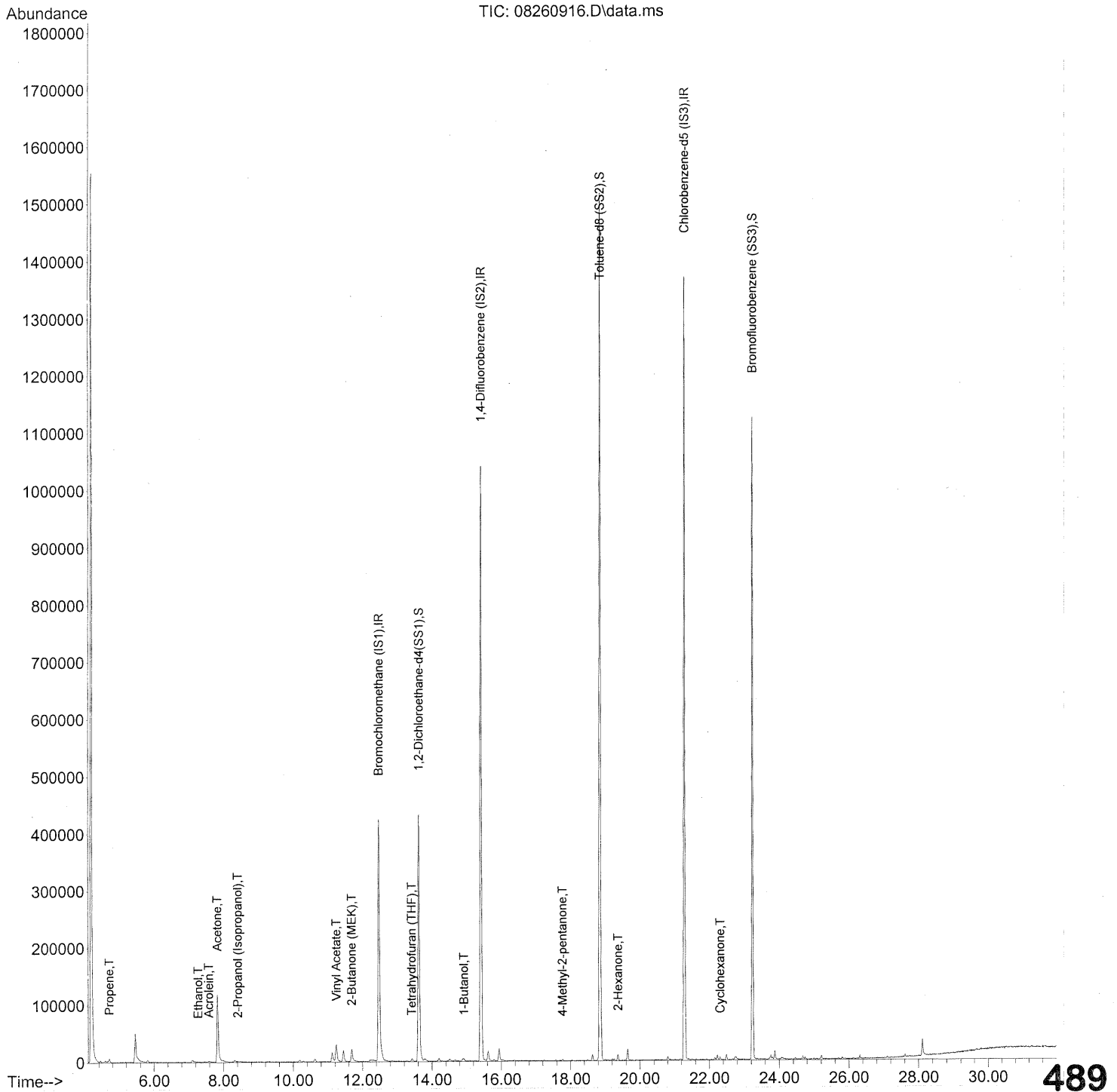
Date:

8/18/09

488

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 8:51 pm
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 14:44:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 8:51 pm
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 14:44:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

WA 9/1/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	239485	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1206093	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	578422	25.000	ng	-0.02

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.62	65	463143	22.250	ng	-0.04
Spiked Amount	25.000		Recovery	=	89.00%	✓
57) Toluene-d8 (SS2)	18.85	98	1303936	25.799	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	103.20%	
73) Bromofluorobenzene (SS3)	23.23	174	371317	27.859	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	111.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.71	42	2861	0.174	ng	91
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	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	7.27	45	1507	0.145	ng	# 37
11) Acetonitrile	7.41	41	359	N.D.		
12) Acrolein	7.58	56	3457	0.436	ng	97
13) Acetone	<u>7.82</u>	58	83253	<u>8.470</u>	ng	# 62
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.41	45	2202	0.057	ng	77
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.32	59	90	N.D.		
19) Methylene Chloride	9.23	84	87	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	9.63	76	107	N.D.		
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	11.23	86	9199	4.599	ng	# 4
27) 2-Butanone (MEK)	<u>11.68</u>	72	11370	<u>1.281</u>	ng	100
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	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 8:51 pm
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 14:44:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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)	13.41	72	1342	0.142 ng	#	77
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	14.92	56	3991	0.255 ng		88
41) Benzene	14.87	78	888	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	690	N.D.		
44) tert-Amyl Methyl Ether	15.72	73	123	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...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.76	58	909	0.071 ng	#	51
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	18.98	91	705	N.D.		
59) 2-Hexanone	19.37	43	9220	0.279 ng		98
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	190	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	0.00	91	0	N.D.		
67) m- & p-Xylenes	0.00	91	0	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	0.00	91	0	N.D.		
71) n-Nonane	22.93	43	184	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.22	105	592	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.16	105	94	N.D.		
78) 4-Ethyltoluene	24.16	105	94	N.D.		
79) 1,3,5-Trimethylbenzene	24.16	105	94	N.D.		

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 8:51 pm
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 01 14:44:13 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

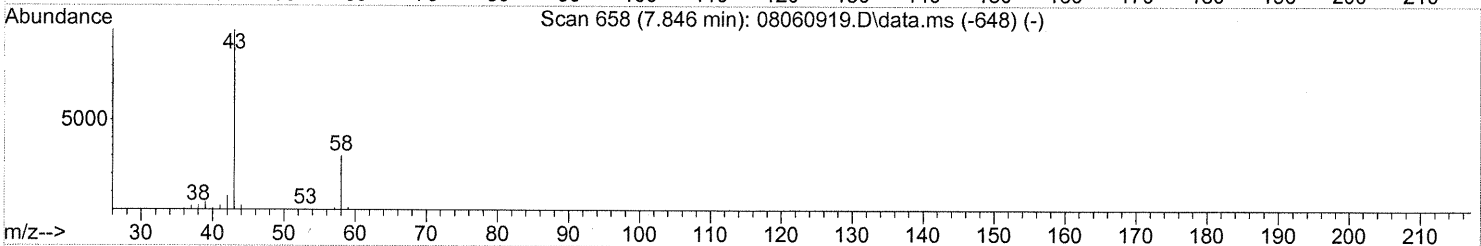
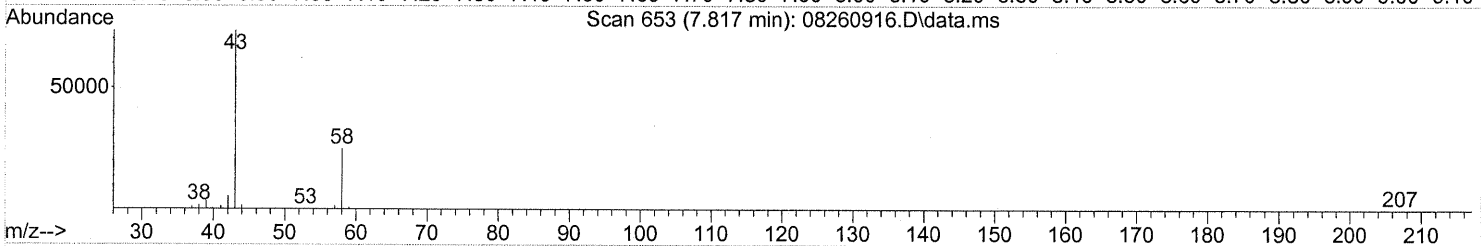
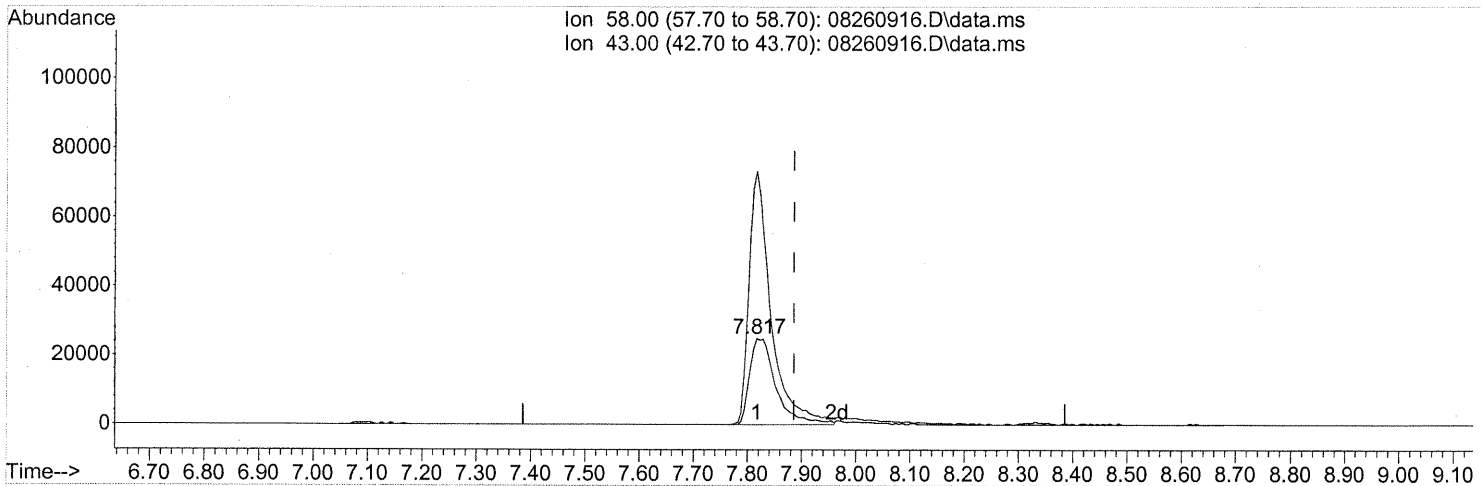
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.16	105	94	N.D.		
82) 1,2,4-Trimethylbenzene	0.00	105	0	N.D.		
83) n-Decane	24.91	57	95	N.D.		
84) Benzyl Chloride	25.00	91	1388	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.81	105	2043	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	213	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.74	128	1634	N.D.		
96) n-Dodecane	27.69	57	126	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.31	55	2610	0.127	ng	92
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	25.89	91	446	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 20:51
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 06:22:00 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260916.D\data.ms

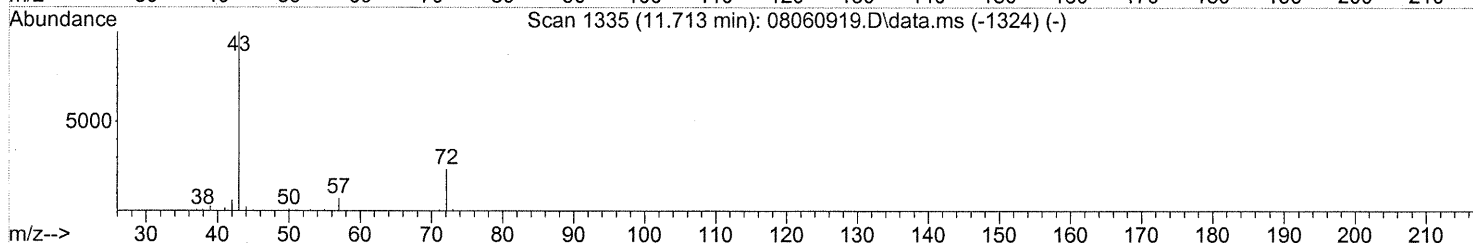
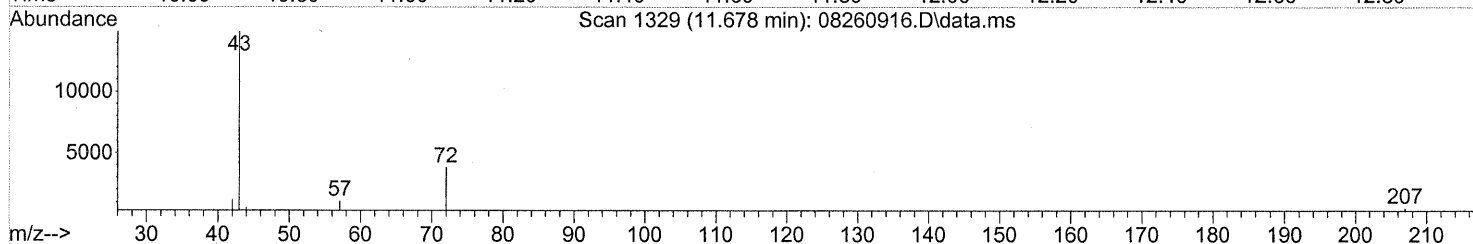
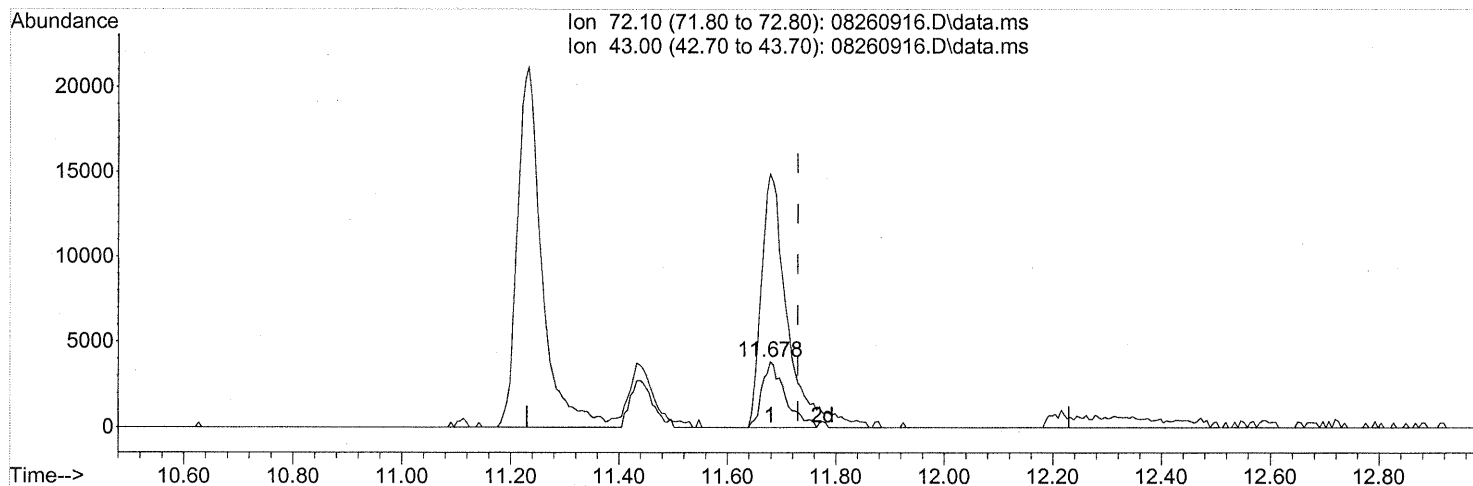
(13) Acetone (T)
 7.817min (-0.069) 8.47ng
 response 83253

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	259.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 20:51
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 06:22:00 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260916.D\data.ms

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

11.678min (-0.052) 1.28ng

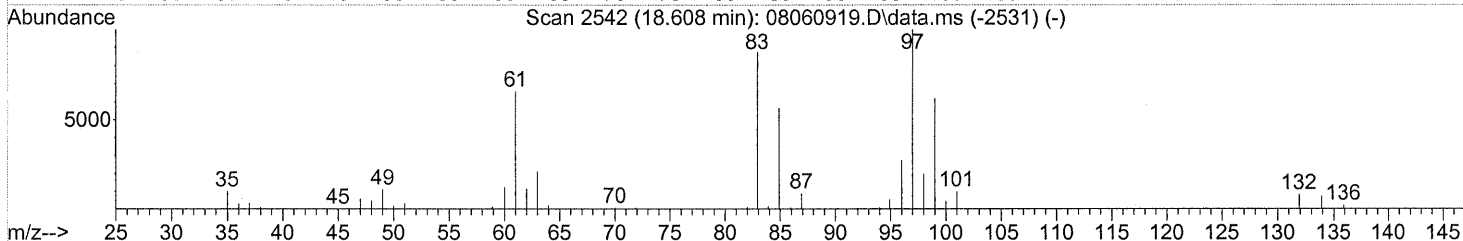
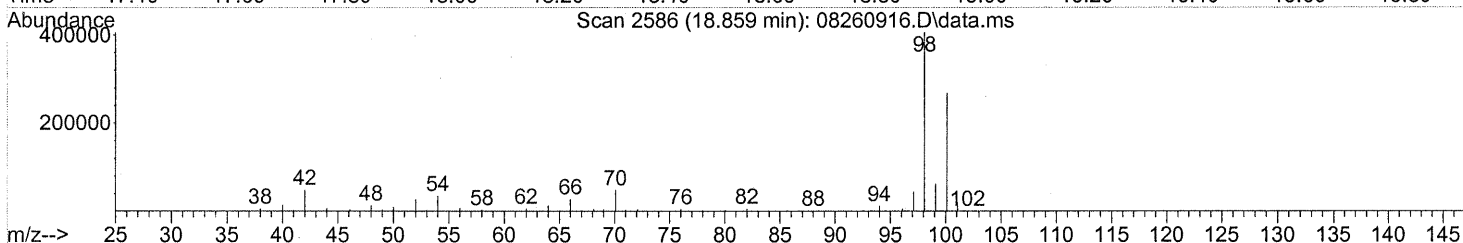
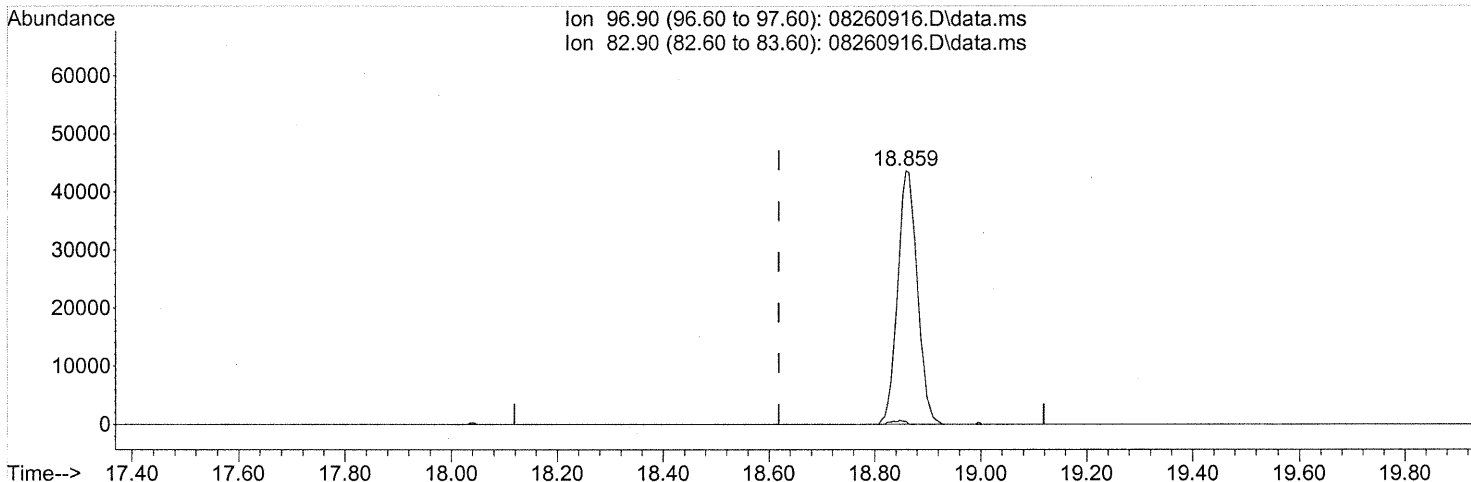
response 11370

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	436.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260916.D
 Acq On : 26 Aug 2009 20:51
 Operator : WA/CC
 Sample : P0902876-011 (1000mL)
 Misc : Environmental Health 102475
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 27 06:22:00 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08260916.D\data.ms

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

18.859min (+0.240) 9.70ng

response 112949

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	0.94#
0.00	0.00	0.00
0.00	0.00	0.00

FP
WA 9/11/09

R 9/21/09

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 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0902876
 CAS Sample ID: P090825-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/25/09
 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
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: _____

9/8/09

496

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 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

CAS Project ID: P0902876
 CAS Sample ID: P090825-MB

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/25/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result $\mu\text{g}/\text{m}^3$	MRL $\mu\text{g}/\text{m}^3$	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.

Verified By: _____

Date: _____

9/8/09

497

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: P0902876
 CAS Sample ID: P090825-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Wida Ang
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/25/09
 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	

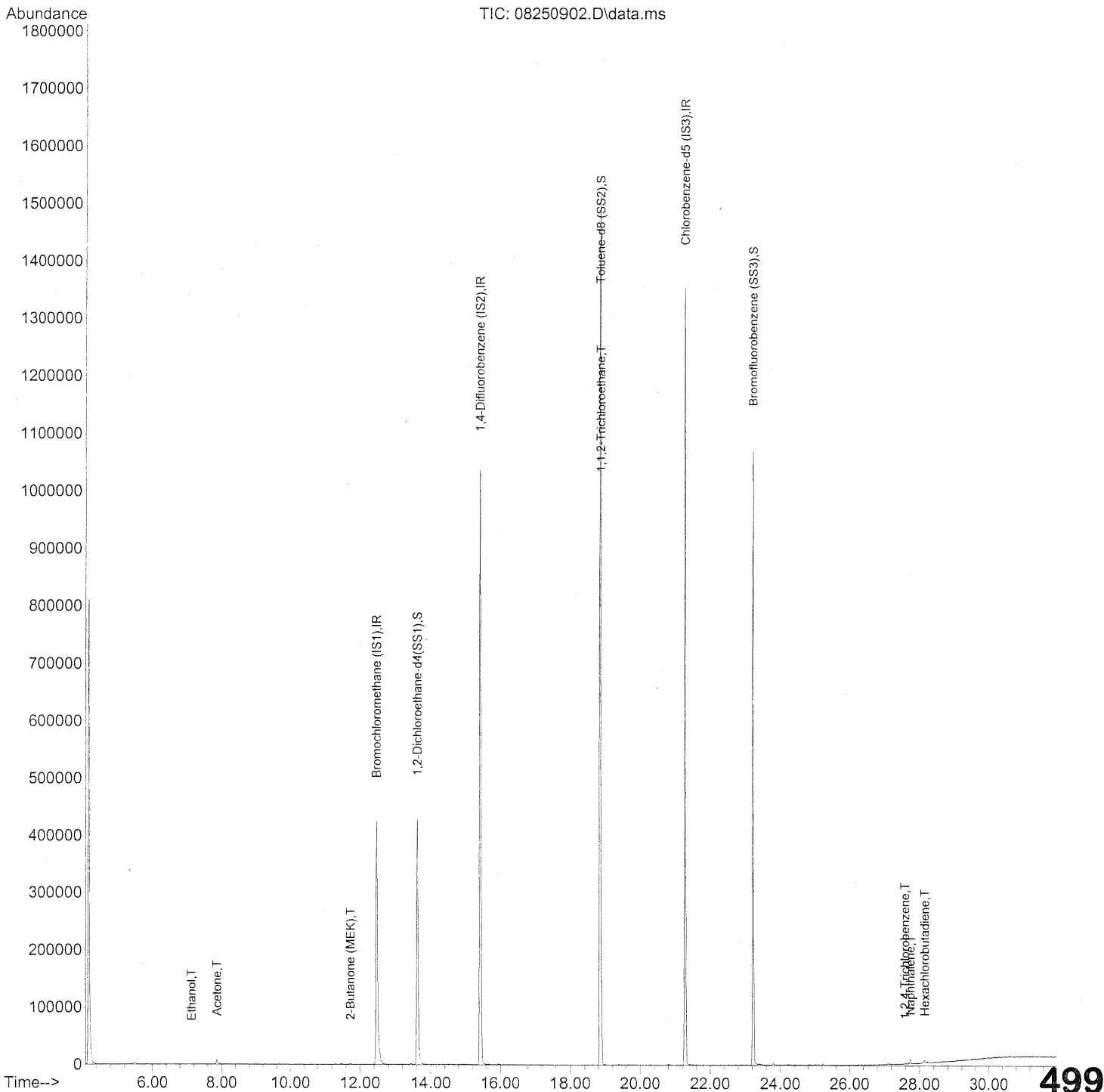
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: _____ Date: 9/3/09 **498**

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250902.D
Acq On : 25 Aug 2009 9:47
Operator : WA
Sample : TO-15 Method Blank (1000mL)
Misc : S20-08140906
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 10:19:18 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250902.D
 Acq On : 25 Aug 2009 9:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 10:19:18 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	246784	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1221355	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	564229	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	466168	21.733	ng	-0.03
Spiked Amount	25.000		Recovery	=	86.92%	✓
57) Toluene-d8 (SS2)	18.85	98	1313832	26.649	ng	-0.02
Spiked Amount	25.000		Recovery	=	106.60%	✓
73) Bromofluorobenzene (SS3)	23.23	174	357352	27.486	ng	-0.01
Spiked Amount	25.000		Recovery	=	109.96%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	189	N.D.		
3) Dichlorodifluoromethan...	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	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	7.13	45	557	0.052	ng	# 37
11) Acetonitrile	7.47	41	104	N.D.		
12) Acrolein	7.65	56	86	N.D.		
13) Acetone	7.87	58	6806	0.672	ng	# 63
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.38	45	265	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...	0.00	59	0	N.D.		
19) Methylene Chloride	9.25	84	278	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	9.65	76	196	N.D.		
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	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	11.72	72	551	0.060	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	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

500

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250902.D
 Acq On : 25 Aug 2009 9:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 10:19:18 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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)	13.43	72	113		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	14.97	56	95		N.D.	
41) Benzene	14.88	78	1307		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.40	84	100		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	0.00	130	0		N.D.	
48) 1,4-Dioxane	0.00	88	0		N.D.	
49) 2,2,4-Trimethylpentane...	0.00	57	0		N.D.	
50) Methyl Methacrylate	0.00	100	0		N.D.	
51) n-Heptane	0.00	71	0		N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0		N.D.	
53) 4-Methyl-2-pentanone	0.00	58	0		N.D.	
54) trans-1,3-Dichloropropene	0.00	75	0		N.D.	
55) 1,1,2-Trichloroethane	18.86	97	113549	9.631 ng	7P #	4
58) Toluene	18.98	91	1223		N.D.	
59) 2-Hexanone	19.38	43	1282		N.D.	
60) Dibromochloromethane	0.00	129	0		N.D.	
61) 1,2-Dibromoethane	0.00	107	0		N.D.	
62) n-Butyl Acetate	0.00	43	0		N.D.	
63) n-Octane	0.00	57	0		N.D.	
64) Tetrachloroethene	0.00	166	0		N.D.	
65) Chlorobenzene	0.00	112	0		N.D.	
66) Ethylbenzene	21.82	91	788		N.D.	
67) m- & p-Xylenes	22.07	91	241		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	22.51	104	505		N.D.	
70) o-Xylene	22.66	91	462		N.D.	
71) n-Nonane	0.00	43	0		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.41	105	2625		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	24.05	91	830		N.D.	
77) 3-Ethyltoluene	24.17	105	1655		N.D.	
78) 4-Ethyltoluene	24.27	105	256		N.D.	
79) 1,3,5-Trimethylbenzene	24.32	105	1545		N.D.	

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250902.D
 Acq On : 25 Aug 2009 9:47
 Operator : WA
 Sample : TO-15 Method Blank (1000mL)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 10:19:18 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.55	105	1154	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	1151	N.D.		
83) n-Decane	24.94	57	95	N.D.		
84) Benzyl Chloride	24.99	91	1797	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	243	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	720	N.D.		
87) sec-Butylbenzene	25.16	105	551	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	364	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	676	N.D.		
90) 1,2-Dichlorobenzene	25.53	146	239	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	175	N.D.		
94) 1,2,4-Trichlorobenzene	27.59	180	1122	0.075 ng	#	74
95) Naphthalene	27.75	128	11145	0.182 ng		89
96) n-Dodecane	27.70	57	843	N.D.		
97) Hexachlorobutadiene	28.15	225	717	0.076 ng		92
98) Cyclohexanone	22.32	55	436	N.D.		
99) tert-Butylbenzene	24.83	119	197	N.D.		
100) n-Butylbenzene	25.87	91	90	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

CAS Project ID: P0902876

CAS Sample ID: P090826-MB

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/26/09

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: _____

9/8/09

503

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 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

CAS Project ID: P0902876
CAS Sample ID: P090826-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 8/26/09
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.

Verified By: _____

Date: _____

9/8/09

504

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: P0902876
 CAS Sample ID: P090826-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/26/09
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: _____

[Signature]

Date: _____

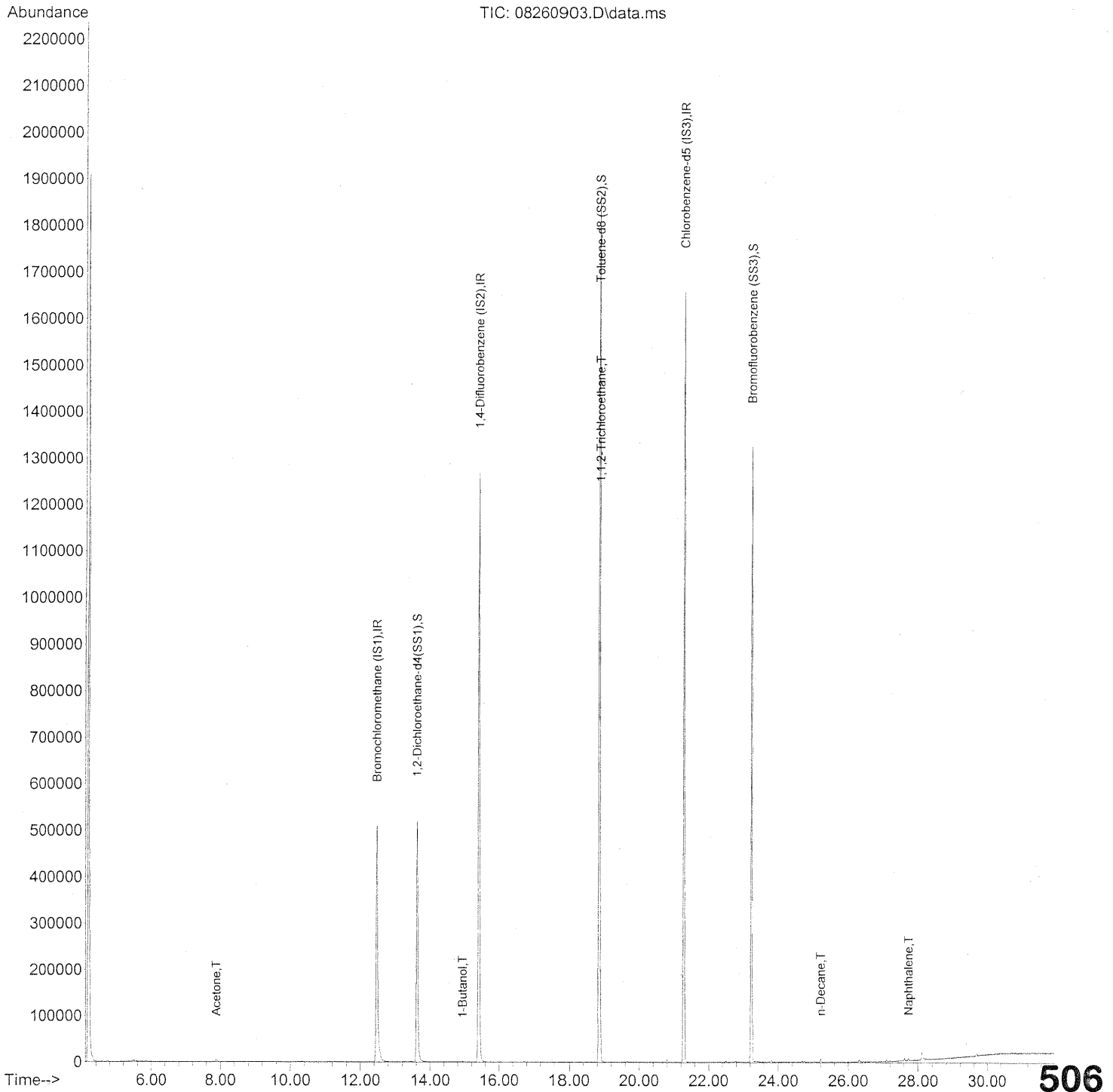
9/8/09

505

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\26\
Data File : 08260903.D
Acq On : 26 Aug 2009 11:30
Operator : WA/CC
Sample : TO-15 Method Blank (1000ml)
Misc : S20-08140906
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 11:59:08 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260903.D
 Acq On : 26 Aug 2009 11:30
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000ml)
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	295358	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1468107	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.29	82	700532	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	561104	21.857	ng	-0.04
Spiked Amount	25.000		Recovery	=	87.44%	✓
57) Toluene-d8 (SS2)	18.85	98	1612865	26.349	ng	-0.02
Spiked Amount	25.000		Recovery	=	105.40%	✓
73) Bromofluorobenzene (SS3)	23.23	174	438882	27.189	ng	-0.01
Spiked Amount	25.000		Recovery	=	108.76%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	726		N.D.	
3) Dichlorodifluoromethan...	0.00	85	0		N.D.	
4) Chloromethane	0.00	50	0		N.D.	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		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	0.00	45	0		N.D.	
11) Acetonitrile	0.00	41	0		N.D.	
12) Acrolein	0.00	56	0		N.D.	
13) Acetone	7.88	58	4488	0.370	ng	# 70
14) Trichlorofluoromethane	0.00	101	0		N.D.	
15) 2-Propanol (Isopropanol)	8.42	45	302		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...	0.00	59	0		N.D.	
19) Methylene Chloride	9.26	84	331		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	0.00	76	0		N.D.	
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	0.00	86	0		N.D.	
27) 2-Butanone (MEK)	0.00	72	0		N.D.	
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	0.00	57	0		N.D.	

507

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260903.D
 Acq On : 26 Aug 2009 11:30
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 11:59:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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)	13.44	72	95	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	14.94	56	1036	0.054 ng	#	3
41) Benzene	14.88	78	1146	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	724	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	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	139403	9.837 ng	#	5
58) Toluene	18.97	91	1032	N.D.		
59) 2-Hexanone	19.38	43	386	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	0.00	43	0	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.81	91	86	N.D.		
67) m- & p-Xylenes	22.03	91	1009	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	225	N.D.		
70) o-Xylene	22.65	91	114	N.D.		
71) n-Nonane	22.48	43	610	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.42	105	118	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.05	91	278	N.D.		
77) 3-Ethyltoluene	24.17	105	617	N.D.		
78) 4-Ethyltoluene	24.22	105	679	N.D.		
79) 1,3,5-Trimethylbenzene	24.32	105	122	N.D.		

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260903.D
 Acq On : 26 Aug 2009 11:30
 Operator : WA/CC
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 26 11:59:08 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	90	N.D.		
81) 2-Ethyltoluene	24.55	105	90	N.D.		
82) 1,2,4-Trimethylbenzene	24.82	105	661	N.D.		
83) n-Decane	25.21	57	4702	0.129	ng	# 42
84) Benzyl Chloride	25.00	91	2168	N.D.		
85) 1,3-Dichlorobenzene	25.02	146	406	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	584	N.D.		
87) sec-Butylbenzene	25.35	105	98	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	101	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	98	N.D.		
90) 1,2-Dichlorobenzene	25.53	146	278	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.32	57	1503	N.D.		
94) 1,2,4-Trichlorobenzene	27.59	180	907	N.D.		
95) Naphthalene	27.74	128	6931	0.091	ng	95
96) n-Dodecane	27.70	57	368	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.32	55	125	N.D.		
99) tert-Butylbenzene	0.00	119	0	N.D.		
100) n-Butylbenzene	25.86	91	193	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

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

CAS Project ID: P0902876

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 8/18 - 8/19/09
Date(s) Received: 8/20/09
Date(s) Analyzed: 8/25 - 8/27/09

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4		Toluene-d8		Bromofluorobenzene		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P090825-MB	87	70-130	107	70-130	110	70-130	
Method Blank	P090826-MB	87	70-130	105	70-130	109	70-130	
Lab Control Sample	P090825-LCS	89	70-130	106	70-130	110	70-130	
Lab Control Sample	P090826-LCS	88	70-130	103	70-130	116	70-130	
102349	P0902876-001	87	70-130	105	70-130	113	70-130	
102350	P0902876-002	87	70-130	104	70-130	112	70-130	
102350	P0902876-002DUP	87	70-130	104	70-130	113	70-130	
102351	P0902876-003	88	70-130	103	70-130	112	70-130	
102352	P0902876-004	87	70-130	103	70-130	112	70-130	
102353	P0902876-005	87	70-130	103	70-130	114	70-130	
102470	P0902876-006	86	70-130	104	70-130	113	70-130	
102471	P0902876-007	89	70-130	102	70-130	112	70-130	
102472	P0902876-008	91	70-130	104	70-130	111	70-130	
102473	P0902876-009	89	70-130	103	70-130	112	70-130	
102474	P0902876-010	90	70-130	104	70-130	109	70-130	
102475	P0902876-011	89	70-130	103	70-130	111	70-130	

Verified By: _____

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Date: _____

9/8/09

511

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: P0902876

CAS Sample ID: P090825-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 8/25/09

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	20.5	78	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	21.8	84	61-118	
74-87-3	Chloromethane	25.0	25.3	101	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	24.3	93	65-122	
75-01-4	Vinyl Chloride	25.3	22.7	90	57-132	
106-99-0	1,3-Butadiene	26.8	25.0	93	66-161	
74-83-9	Bromomethane	25.8	28.3	110	67-130	
75-00-3	Chloroethane	25.5	22.5	88	68-123	
64-17-5	Ethanol	130	118	91	50-155	
75-05-8	Acetonitrile	26.0	20.4	78	48-148	
107-02-8	Acrolein	26.3	25.0	95	67-138	
67-64-1	Acetone	132	119	90	59-121	
75-69-4	Trichlorofluoromethane	26.3	23.8	90	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	42.8	89	54-126	
107-13-1	Acrylonitrile	25.8	25.0	97	65-134	
75-35-4	1,1-Dichloroethene	27.5	27.5	100	70-123	
75-09-2	Methylene Chloride	26.8	23.2	87	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	20.0	74	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	29.3	107	69-126	
75-15-0	Carbon Disulfide	26.0	24.0	92	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	23.5	92	69-125	
75-34-3	1,1-Dichloroethane	26.5	23.9	90	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	24.2	92	72-132	
108-05-4	Vinyl Acetate	126	184	146	73-158	
78-93-3	2-Butanone (MEK)	26.8	25.7	96	68-126	

Verified By: _____

Date: _____

9/2/09

512

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: P0902876
 CAS Sample ID: P090825-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/25/09
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	25.1	93	69-124	
141-78-6	Ethyl Acetate	52.0	50.9	98	65-126	
110-54-3	n-Hexane	26.0	21.6	83	63-125	
67-66-3	Chloroform	27.5	26.6	97	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	22.9	86	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.8	90	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	24.5	94	69-127	
71-43-2	Benzene	25.8	23.4	91	68-122	
56-23-5	Carbon Tetrachloride	26.3	26.7	102	68-137	
110-82-7	Cyclohexane	51.8	47.9	92	68-121	
78-87-5	1,2-Dichloropropane	26.0	24.3	93	69-128	
75-27-4	Bromodichloromethane	26.3	25.2	96	71-131	
79-01-6	Trichloroethene	25.8	27.8	108	72-122	
123-91-1	1,4-Dioxane	26.0	26.0	100	73-127	
80-62-6	Methyl Methacrylate	52.8	55.8	106	80-133	
142-82-5	n-Heptane	25.8	23.6	91	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	23.5	96	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	24.8	93	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	25.9	96	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.0	100	76-125	
108-88-3	Toluene	26.8	27.7	103	74-119	
591-78-6	2-Hexanone	27.0	24.9	92	64-118	
124-48-1	Dibromochloromethane	28.3	32.0	113	79-129	
106-93-4	1,2-Dibromoethane	26.3	29.3	111	79-125	
123-86-4	n-Butyl Acetate	27.5	24.9	91	70-136	

Verified By: _____

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Date: _____

9/8/09

513

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: P0902876

CAS Sample ID: P090825-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 8/25/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: NA Liter(s)

Test Notes:

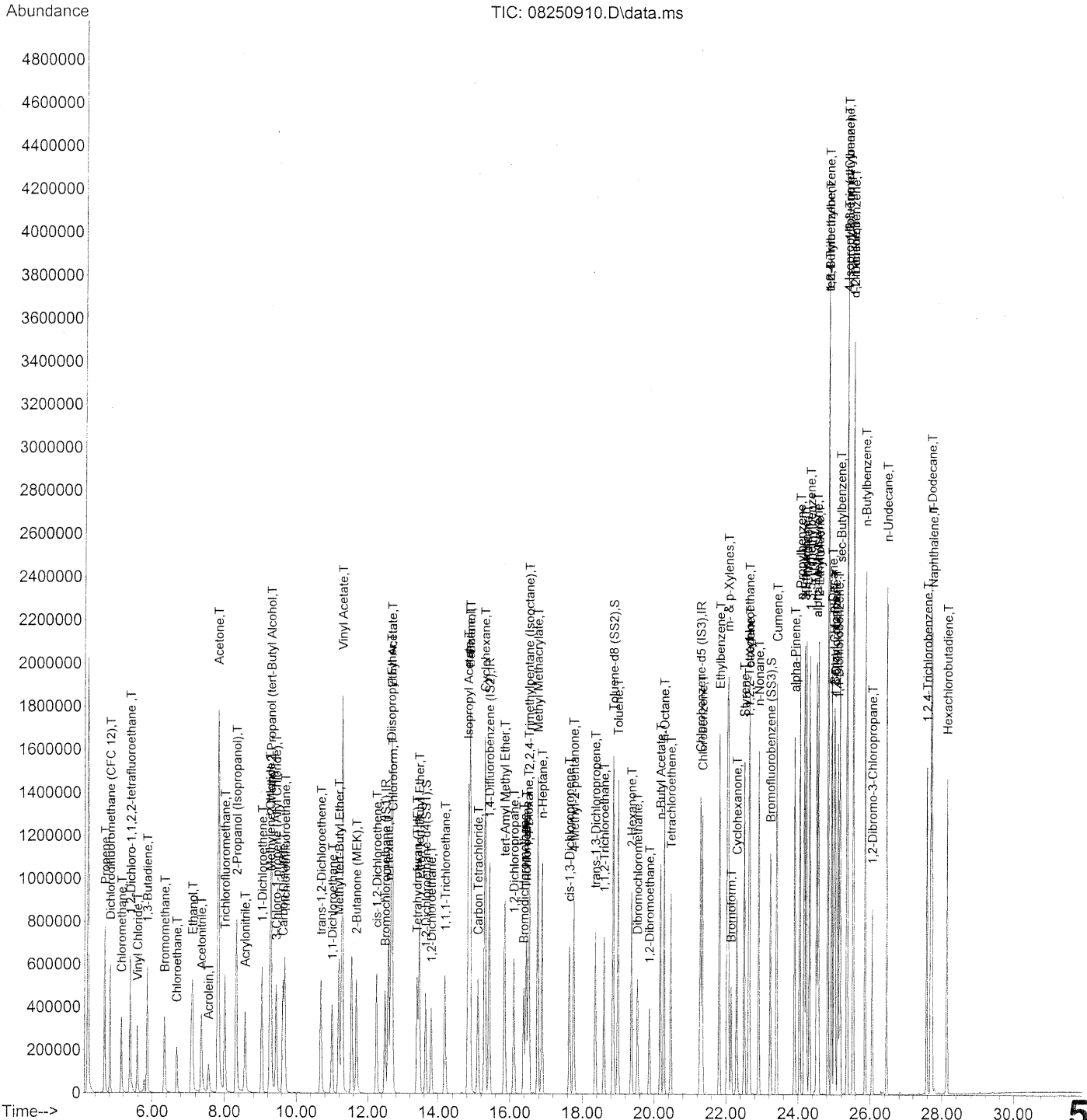
CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
111-65-9	n-Octane	26.3	25.5	97	75-126	
127-18-4	Tetrachloroethene	25.3	29.7	117	72-125	
108-90-7	Chlorobenzene	26.5	29.0	109	74-121	
100-41-4	Ethylbenzene	26.3	27.5	105	76-120	
179601-23-1	m,p-Xylenes	51.5	52.9	103	75-120	
75-25-2	Bromoform	26.5	31.0	117	76-143	
100-42-5	Styrene	26.3	28.8	110	78-124	
95-47-6	o-Xylene	26.0	27.2	105	76-121	
111-84-2	n-Nonane	25.8	22.9	89	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	28.2	104	77-126	
98-82-8	Cumene	25.3	26.7	106	78-125	
80-56-8	alpha-Pinene	24.8	26.2	106	78-125	
103-65-1	n-Propylbenzene	25.3	26.5	105	80-127	
622-96-8	4-Ethyltoluene	26.3	28.5	108	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	28.7	108	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	28.0	110	76-123	
100-44-7	Benzyl Chloride	26.8	29.4	110	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	30.3	117	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	29.0	110	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	29.7	115	75-124	
5989-27-5	d-Limonene	26.5	27.5	104	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	33.2	123	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	33.1	121	70-139	
91-20-3	Naphthalene	25.0	29.3	117	69-141	
87-68-3	Hexachlorobutadiene	26.8	29.6	110	68-138	

Verified By:  Date: 9/8/09 **514**

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250910.D
Acq On : 25 Aug 2009 17:17
Operator : WA/CC
Sample : 25ng TO-15 LCS STD
Misc : S20-08140906/S20-08240912
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 25 18:01:18 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250910.D
 Acq On : 25 Aug 2009 17:17
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.49	130	248135	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1255711	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	582061	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	478513	22.187	ng	-0.02
Spiked Amount	25.000		Recovery	=	88.76%	
57) Toluene-d8 (SS2)	18.85	98	1344332	26.432	ng	-0.01
Spiked Amount	25.000		Recovery	=	105.72%	
73) Bromofluorobenzene (SS3)	23.24	174	368860	27.502	ng	0.00
Spiked Amount	25.000		Recovery	=	110.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	349571	20.530	ng	99
3) Dichlorodifluoromethan...	4.83	85	606238	21.783	ng	99
4) Chloromethane	5.14	50	473460	25.321	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	275099	24.330	ng	98
6) Vinyl Chloride	5.59	62	408473	22.738	ng	98
7) 1,3-Butadiene	5.86	54	322148	25.019	ng	100
8) Bromomethane	6.35	94	309524	28.303	ng	99
9) Chloroethane	6.69	64	234711	22.478	ng	98
10) Ethanol	7.11	45	1274569	118.089	ng	100
11) Acetonitrile	7.37	41	646221	20.444	ng	100
12) Acrolein	7.56	56	205114	24.966	ng	99
13) Acetone	7.82	58	1211521	118.964	ng	93
14) Trichlorofluoromethane	8.01	101	599342	23.820	ng	100
15) 2-Propanol (Isopropanol)	8.33	45	1713430	42.814	ng	99
16) Acrylonitrile	8.56	53	460361	25.018	ng	99
17) 1,1-Dichloroethene	9.03	96	321397	27.510	ng	# 84
18) 2-Methyl-2-Propanol (t...	9.28	59	1752614	49.338	ng	97
19) Methylene Chloride	9.25	84	316980	23.177	ng	90
20) 3-Chloro-1-propene (Al...	9.43	41	527728	20.017	ng	93
21) Trichlorotrifluoroethane	9.68	151	267799	29.272	ng	95
22) Carbon Disulfide	9.62	76	1155946	23.973	ng	99
23) trans-1,2-Dichloroethene	10.68	61	484951	23.459	ng	90
24) 1,1-Dichloroethane	10.99	63	599535	23.915	ng	100
25) Methyl tert-Butyl Ether	11.19	73	933322	24.222	ng	100
26) Vinyl Acetate	11.28	86	381417	184.040	ng	# 78
27) 2-Butanone (MEK)	11.67	72	236684	25.740	ng	# 89
28) cis-1,2-Dichloroethene	12.25	61	482209	25.059	ng	91
29) Diisopropyl Ether	12.66	87	327267	26.596	ng	# 1
30) Ethyl Acetate	12.67	61	243955	50.929	ng	99
31) n-Hexane	12.58	57	529796	21.621	ng	99

516

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250910.D
 Acq On : 25 Aug 2009 17:17
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 25 18:01:18 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	573602	26.589	ng	100
34) Tetrahydrofuran (THF)	13.39	72	224624	22.917	ng	94
35) Ethyl tert-Butyl Ether	13.46	87	384245	24.138	ng	91
36) 1,2-Dichloroethane	13.80	62	468464	23.760	ng	96
38) 1,1,1-Trichloroethane	14.19	97	522923	24.549	ng	97
39) Isopropyl Acetate	14.83	61	439977	47.233	ng	# 91
40) 1-Butanol	14.88	56	717834	44.047	ng	# 72
41) Benzene	14.88	78	1289944	23.365	ng	99
42) Carbon Tetrachloride	15.11	117	470445	26.736	ng	99
43) Cyclohexane	15.30	84	968683	47.904	ng	93
44) tert-Amyl Methyl Ether	15.85	73	989123	23.857	ng	96
45) 1,2-Dichloropropane	16.11	63	337386	24.332	ng	100
46) Bromodichloromethane	16.38	83	457888	25.167	ng	99
47) Trichloroethene	16.45	130	346095	27.794	ng	100
48) 1,4-Dioxane	16.51	88	274535	26.019	ng	83
49) 2,2,4-Trimethylpentane...	16.52	57	1478340	22.733	ng	95
50) Methyl Methacrylate	16.77	100	283649	55.810	ng	91
51) n-Heptane	16.89	71	349149	23.565	ng	96
52) cis-1,3-Dichloropropene	17.65	75	539938	23.496	ng	99
53) 4-Methyl-2-pentanone	17.76	58	328438	24.753	ng	99
54) trans-1,3-Dichloropropene	18.36	75	565933	25.901	ng	99
55) 1,1,2-Trichloroethane	18.60	97	315615	26.037	ng	96
58) Toluene	18.98	91	1385901	27.727	ng	99
59) 2-Hexanone	19.36	43	827183	24.886	ng	95
60) Dibromochloromethane	19.53	129	378308	31.989	ng	99
61) 1,2-Dibromoethane	19.86	107	367019	29.273	ng	99
62) n-Butyl Acetate	20.17	43	975176	24.891	ng	98
63) n-Octane	20.28	57	307753	25.468	ng	91
64) Tetrachloroethene	20.47	166	342972	29.652	ng	99
65) Chlorobenzene	21.34	112	896393	28.987	ng	100
66) Ethylbenzene	21.82	91	1569362	27.466	ng	98
67) m- & p-Xylenes	22.06	91	2444907	52.896	ng	97
68) Bromoform	22.15	173	304113	30.971	ng	100
69) Styrene	22.51	104	963453	28.839	ng	98
70) o-Xylene	22.66	91	1260637	27.203	ng	97
71) n-Nonane	22.91	43	706639	22.948	ng	94
72) 1,1,2,2-Tetrachloroethane	22.64	83	579698	28.187	ng	99
74) Cumene	23.41	105	1562320	26.689	ng	100
75) alpha-Pinene	23.90	93	786478	26.210	ng	98
76) n-Propylbenzene	24.05	91	1948358	26.477	ng	98
77) 3-Ethyltoluene	24.18	105	1557928	27.848	ng	100
78) 4-Ethyltoluene	24.23	105	1542925	28.463	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1311757	28.692	ng	97

517

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250910.D
 Acq On : 25 Aug 2009 17:17
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 25 18:01:18 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	721654	29.483	ng	96
81) 2-Ethyltoluene	24.56	105	1551342	27.498	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1306390	28.019	ng	99
83) n-Decane	24.94	57	750916	24.771	ng	97
84) Benzyl Chloride	25.00	91	1283911	29.377	ng	98
85) 1,3-Dichlorobenzene	25.03	146	714313	30.272	ng	97
86) 1,4-Dichlorobenzene	25.11	146	730319	29.027	ng	98
87) sec-Butylbenzene	25.17	105	1759572	27.936	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1569315	27.941	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	1318564	27.761	ng	95
90) 1,2-Dichlorobenzene	25.53	146	663622	29.663	ng	100
91) d-Limonene	25.53	68	545896	27.533	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.06	157	255155	33.160	ng	83
93) n-Undecane	26.46	57	808311	25.063	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	508479	33.056	ng	99
95) Naphthalene	27.73	128	1852227	29.252	ng	100
96) n-Dodecane	27.70	57	845668	22.571	ng	98
97) Hexachlorobutadiene	28.15	225	289355	29.575	ng	99
98) Cyclohexanone	22.30	55	498233	24.059	ng	96
99) tert-Butylbenzene	24.83	119	1246322	27.619	ng	99
100) n-Butylbenzene	25.86	91	1469122	28.289	ng	99

(#) = 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: P0902876

CAS Sample ID: P090826-LCS

Test Code: EPA TO-15

Date Collected: NA

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Date Received: NA

Analyst: Wida Ang

Date Analyzed: 8/26/09

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	22.6	86	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	22.3	86	61-118	
74-87-3	Chloromethane	25.0	25.0	100	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	25.4	98	65-122	
75-01-4	Vinyl Chloride	25.3	23.5	93	57-132	
106-99-0	1,3-Butadiene	26.8	26.3	98	66-161	
74-83-9	Bromomethane	25.8	27.6	107	67-130	
75-00-3	Chloroethane	25.5	23.0	90	68-123	
64-17-5	Ethanol	130	120	92	50-155	
75-05-8	Acetonitrile	26.0	21.0	81	48-148	
107-02-8	Acrolein	26.3	25.4	97	67-138	
67-64-1	Acetone	132	121	92	59-121	
75-69-4	Trichlorofluoromethane	26.3	23.8	90	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	39.5	82	54-126	
107-13-1	Acrylonitrile	25.8	25.4	98	65-134	
75-35-4	1,1-Dichloroethene	27.5	27.8	101	70-123	
75-09-2	Methylene Chloride	26.8	23.6	88	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	20.3	75	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	29.9	109	69-126	
75-15-0	Carbon Disulfide	26.0	24.4	94	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	24.0	94	69-125	
75-34-3	1,1-Dichloroethane	26.5	24.3	92	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	25.1	95	72-132	
108-05-4	Vinyl Acetate	126	177	140	73-158	
78-93-3	2-Butanone (MEK)	26.8	25.7	96	68-126	

Verified By: _____

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Date: _____

9/8/09

519

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: P0902876
 CAS Sample ID: P090826-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/26/09
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	25.2	93	69-124	
141-78-6	Ethyl Acetate	52.0	52.1	100	65-126	
110-54-3	n-Hexane	26.0	22.5	87	63-125	
67-66-3	Chloroform	27.5	26.7	97	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	23.4	88	65-124	
107-06-2	1,2-Dichloroethane	26.3	23.7	90	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.1	97	69-127	
71-43-2	Benzene	25.8	24.0	93	68-122	
56-23-5	Carbon Tetrachloride	26.3	27.3	104	68-137	
110-82-7	Cyclohexane	51.8	50.1	97	68-121	
78-87-5	1,2-Dichloropropane	26.0	24.8	95	69-128	
75-27-4	Bromodichloromethane	26.3	25.3	96	71-131	
79-01-6	Trichloroethene	25.8	27.8	108	72-122	
123-91-1	1,4-Dioxane	26.0	26.4	102	73-127	
80-62-6	Methyl Methacrylate	52.8	56.8	108	80-133	
142-82-5	n-Heptane	25.8	24.0	93	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	23.7	97	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	25.3	94	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	26.1	97	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	26.3	101	76-125	
108-88-3	Toluene	26.8	26.7	100	74-119	
591-78-6	2-Hexanone	27.0	24.7	91	64-118	
124-48-1	Dibromochloromethane	28.3	31.0	110	79-129	
106-93-4	1,2-Dibromoethane	26.3	28.1	107	79-125	
123-86-4	n-Butyl Acetate	27.5	24.6	89	70-136	

Verified By: _____

Date: _____

2

9/8/09

520

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: P0902876

CAS Sample ID: P090826-LCS

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Date Collected: NA

Date Received: NA

Date Analyzed: 8/26/09

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	24.8	94	75-126	
127-18-4	Tetrachloroethene	25.3	28.3	112	72-125	
108-90-7	Chlorobenzene	26.5	28.0	106	74-121	
100-41-4	Ethylbenzene	26.3	26.6	101	76-120	
179601-23-1	m,p-Xylenes	51.5	51.6	100	75-120	
75-25-2	Bromoform	26.5	29.7	112	76-143	
100-42-5	Styrene	26.3	28.1	107	78-124	
95-47-6	o-Xylene	26.0	26.6	102	76-121	
111-84-2	n-Nonane	25.8	22.6	88	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	27.4	101	77-126	
98-82-8	Cumene	25.3	25.8	102	78-125	
80-56-8	alpha-Pinene	24.8	25.1	101	78-125	
103-65-1	n-Propylbenzene	25.3	25.8	102	80-127	
622-96-8	4-Ethyltoluene	26.3	27.2	103	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	27.6	104	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	27.1	106	76-123	
100-44-7	Benzyl Chloride	26.8	28.4	106	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	29.2	112	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	27.9	106	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	28.7	111	75-124	
5989-27-5	d-Limonene	26.5	27.0	102	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	32.7	121	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	32.1	118	70-139	
91-20-3	Naphthalene	25.0	28.2	113	69-141	
87-68-3	Hexachlorobutadiene	26.8	28.7	107	68-138	

Verified By: _____

Date: _____

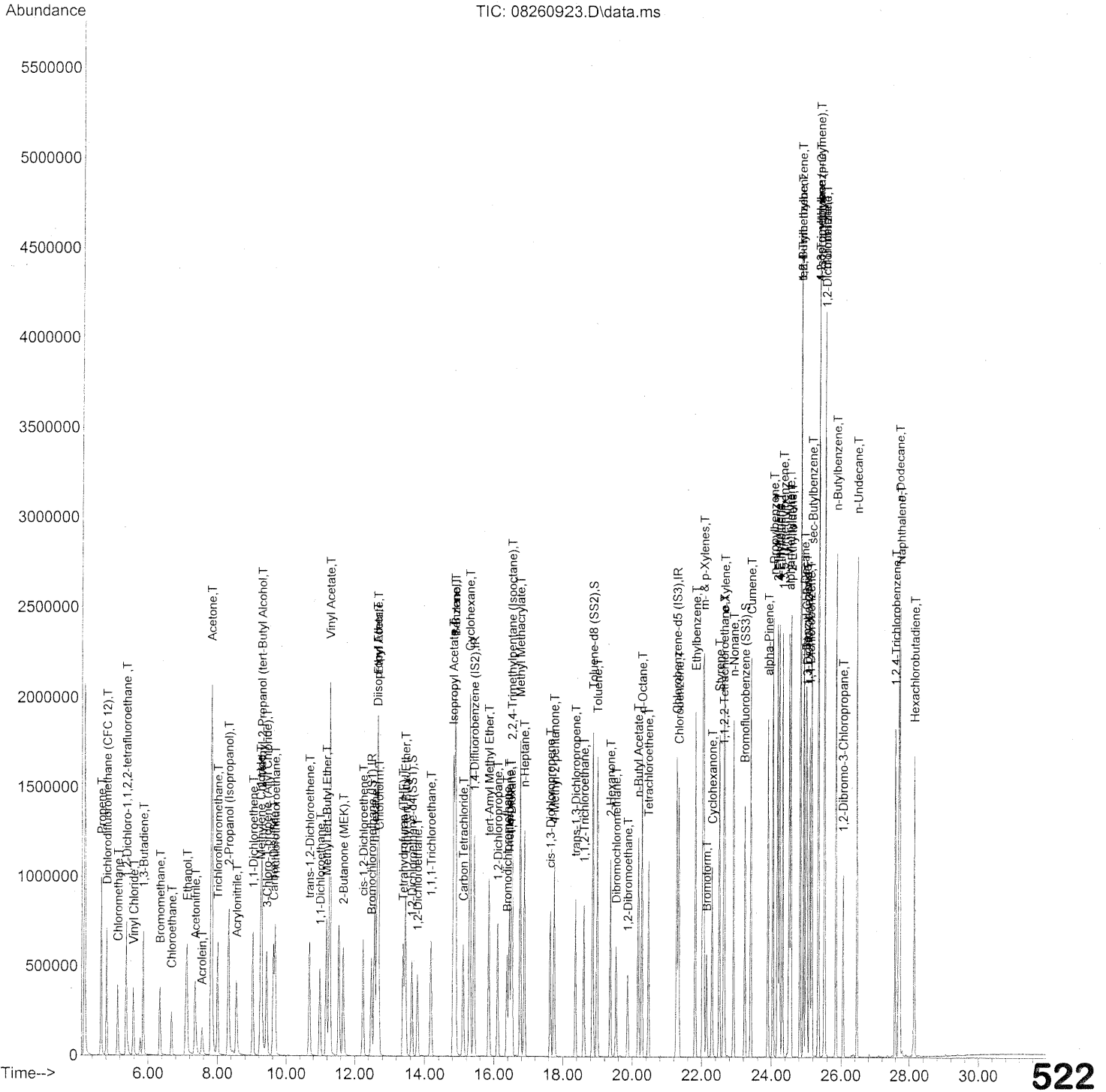
8/26/09

521

Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260923.D
 Acq On : 27 Aug 2009 1:38
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 04:04:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260923.D
 Acq On : 27 Aug 2009 1:38
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 04:04:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	285021	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1434452	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	692092	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	546797	22.072	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.28%	
57) Toluene-d8 (SS2)	18.85	98	1552675	25.675	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.72%	
73) Bromofluorobenzene (SS3)	23.23	174	460831	28.897	ng	-0.01
Spiked Amount	25.000		Recovery	=	115.60%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.65	42	441213	22.558	ng	99
3) Dichlorodifluoromethan...	4.82	85	714298	22.345	ng	100
4) Chloromethane	5.14	50	537478	25.024	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.38	135	330046	25.412	ng	98
6) Vinyl Chloride	5.58	62	484814	23.495	ng	98
7) 1,3-Butadiene	5.86	54	388316	26.255	ng	100
8) Bromomethane	6.34	94	346301	27.568	ng	98
9) Chloroethane	6.67	64	275413	22.963	ng	97
10) Ethanol	7.11	45	1484782	119.762	ng	100
11) Acetonitrile	7.36	41	762497	21.001	ng	99
12) Acrolein	7.55	56	239488	25.377	ng	99
13) Acetone	7.81	58	1421197	121.493	ng	93
14) Trichlorofluoromethane	8.00	101	687791	23.798	ng	99
15) 2-Propanol (Isopropanol)	8.32	45	1814896	39.480	ng	100
16) Acrylonitrile	8.55	53	536430	25.380	ng	98
17) 1,1-Dichloroethene	9.02	96	372521	27.759	ng	# 83
18) 2-Methyl-2-Propanol (t...	9.27	59	2020403	49.516	ng	98
19) Methylene Chloride	9.24	84	370567	23.589	ng	90
20) 3-Chloro-1-propene (Al...	9.42	41	614735	20.299	ng	95
21) Trichlorotrifluoroethane	9.67	151	313955	29.876	ng	94
22) Carbon Disulfide	9.62	76	1349997	24.374	ng	99
23) trans-1,2-Dichloroethene	10.68	61	569679	23.991	ng	90
24) 1,1-Dichloroethane	10.99	63	699979	24.309	ng	99
25) Methyl tert-Butyl Ether	11.18	73	1109875	25.076	ng	100
26) Vinyl Acetate	11.27	86	421270	176.963	ng	# 80
27) 2-Butanone (MEK)	11.67	72	271450	25.700	ng	93
28) cis-1,2-Dichloroethene	12.24	61	556084	25.159	ng	91
29) Diisopropyl Ether	12.65	87	379733	26.866	ng	# 1
30) Ethyl Acetate	12.67	61	286475	52.066	ng	99
31) n-Hexane	12.58	57	634192	22.532	ng	99

523

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260923.D
 Acq On : 27 Aug 2009 1:38
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 04:04:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	662591	26.739	ng	100
34) Tetrahydrofuran (THF)	13.38	72	263697	23.422	ng	95
35) Ethyl tert-Butyl Ether	13.45	87	432729	23.665	ng	93
36) 1,2-Dichloroethane	13.79	62	537227	23.722	ng	97
38) 1,1,1-Trichloroethane	14.18	97	610422	25.086	ng	96
39) Isopropyl Acetate	14.82	61	520368	48.902	ng	# 91
40) 1-Butanol	14.88	56	836126	44.912	ng	# 65
41) Benzene	14.88	78	1512050	23.975	ng	98
42) Carbon Tetrachloride	15.11	117	547955	27.261	ng	99
43) Cyclohexane	15.29	84	1157606	50.114	ng	93
44) tert-Amyl Methyl Ether	15.85	73	1082152	22.849	ng	97
45) 1,2-Dichloropropane	16.11	63	392084	24.754	ng	100
46) Bromodichloromethane	16.38	83	524798	25.251	ng	98
47) Trichloroethene	16.44	130	395333	27.792	ng	98
48) 1,4-Dioxane	16.50	88	317721	26.360	ng	82
49) 2,2,4-Trimethylpentane...	16.52	57	1722919	23.193	ng	95
50) Methyl Methacrylate	16.76	100	329597	56.770	ng	91
51) n-Heptane	16.88	71	406422	24.012	ng	97
52) cis-1,3-Dichloropropene	17.65	75	622050	23.696	ng	99
53) 4-Methyl-2-pentanone	17.76	58	383412	25.295	ng	99
54) trans-1,3-Dichloropropene	18.36	75	650887	26.077	ng	98
55) 1,1,2-Trichloroethane	18.60	97	364194	26.301	ng	96
58) Toluene	18.98	91	1586898	26.701	ng	99
59) 2-Hexanone	19.36	43	976838	24.716	ng	96
60) Dibromochloromethane	19.53	129	436418	31.036	ng	99
61) 1,2-Dibromoethane	19.86	107	419067	28.110	ng	98
62) n-Butyl Acetate	20.17	43	1145671	24.594	ng	98
63) n-Octane	20.28	57	356841	24.835	ng	92
64) Tetrachloroethene	20.46	166	389515	28.322	ng	99
65) Chlorobenzene	21.34	112	1029037	27.986	ng	100
66) Ethylbenzene	21.82	91	1809568	26.635	ng	98
67) m- & p-Xylenes	22.06	91	2835084	51.586	ng	97
68) Bromoform	22.15	173	347345	29.749	ng	99
69) Styrene	22.51	104	1116954	28.118	ng	98
70) o-Xylene	22.65	91	1463056	26.551	ng	97
71) n-Nonane	22.91	43	828592	22.631	ng	95
72) 1,1,2,2-Tetrachloroethane	22.63	83	670647	27.425	ng	100
74) Cumene	23.41	105	1792318	25.750	ng	100
75) alpha-Pinene	23.90	93	897110	25.144	ng	99
76) n-Propylbenzene	24.05	91	2253581	25.756	ng	99
77) 3-Ethyltoluene	24.17	105	1791763	26.935	ng	100
78) 4-Ethyltoluene	24.23	105	1753157	27.199	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1501096	27.613	ng	95

524

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260923.D
 Acq On : 27 Aug 2009 1:38
 Operator : WA/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 27 04:04:41 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	827771	28.442	ng	97
81) 2-Ethyltoluene	24.56	105	1775179	26.463	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1504982	27.147	ng	100
83) n-Decane	24.94	57	872711	24.212	ng	97
84) Benzyl Chloride	25.00	91	1476492	28.412	ng	98
85) 1,3-Dichlorobenzene	25.03	146	819762	29.218	ng	97
86) 1,4-Dichlorobenzene	25.11	146	835961	27.943	ng	98
87) sec-Butylbenzene	25.16	105	2016142	26.921	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1803247	27.002	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1531124	27.111	ng	96
90) 1,2-Dichlorobenzene	25.53	146	762725	28.673	ng	100
91) d-Limonene	25.53	68	637037	27.022	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	299580	32.744	ng	83
93) n-Undecane	26.46	57	944758	24.637	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	586385	32.060	ng	99
95) Naphthalene	27.73	128	2125961	28.237	ng	100
96) n-Dodecane	27.69	57	984978	22.109	ng	98
97) Hexachlorobutadiene	28.15	225	333576	28.674	ng	99
98) Cyclohexanone	22.30	55	575262	23.362	ng	96
99) tert-Butylbenzene	24.83	119	1447980	26.987	ng	99
100) n-Butylbenzene	25.86	91	1694358	27.439	ng	99

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102350

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-002DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01185

Date Collected: 8/18/09

Date Received: 8/20/09

Date Analyzed: 8/25/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.8

Final Pressure (psig): 3.5

Canister Dilution Factor: 2.04

Compound	Sample Result		Duplicate Sample Result		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
Propene	15.8	9.16	19.0	11.1	17.4	18	25	M1
Dichlorodifluoromethane (CFC 12)	2.75	0.556	3.28	0.664	3.015	18	25	
Chloromethane	0.804	0.389	0.704	0.341	0.754	13	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Butadiene	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	866	460	996	529	931	14	25	
Acetonitrile	105	62.3	121	72.1	113	14	25	
Acrolein	5.74	2.50	6.62	2.89	6.18	14	25	
Acetone	221	93.0	258	109	239.5	15	25	
Trichlorofluoromethane	1.35	0.240	1.63	0.291	1.49	19	25	
2-Propanol (Isopropyl Alcohol)	73.4	29.9	85.3	34.7	79.35	15	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
Methylene Chloride	ND	ND	ND	ND	-	-	25	
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	0.581	0.0759	0.694	0.0905	0.6375	18	25	
Carbon Disulfide	2.64	0.847	3.17	1.02	2.905	18	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	6.28	2.13	7.38	2.50	6.83	16	25	

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

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

Verified By: _____

Date: _____

8/25/09

526

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 102350
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01185

CAS Project ID: P0902876
CAS Sample ID: P0902876-002DUP

Date Collected: 8/18/09
Date Received: 8/20/09
Date Analyzed: 8/25/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.8 **Final Pressure (psig):** 3.5

Canister Dilution Factor: 2.04

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	ND	ND	ND	ND	-	-	25	
Ethyl Acetate	9.65	2.68	11.0	3.06	10.325	13	25	
n-Hexane	ND	ND	ND	ND	-	-	25	
Chloroform	2.03	0.417	2.31	0.472	2.17	13	25	
Tetrahydrofuran (THF)	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	2.11	0.522	2.54	0.629	2.325	18	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	0.930	0.291	1.09	0.341	1.01	16	25	
Carbon Tetrachloride	0.532	0.0847	0.590	0.0938	0.561	10	25	
Cyclohexane	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	0.375	0.0561	0.420	0.0628	0.3975	11	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	1.68	0.409	1.83	0.447	1.755	9	25	
cis-1,3-Dichloropropene	6.79	1.50	7.85	1.73	7.32	14	25	
4-Methyl-2-pentanone	2.16	0.527	2.47	0.604	2.315	13	25	
trans-1,3-Dichloropropene	4.78	1.05	5.55	1.22	5.165	15	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	20.8	5.52	24.3	6.46	22.55	16	25	
2-Hexanone	ND	ND	1.06	0.260	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Butyl Acetate	4.83	1.02	5.57	1.17	5.2	14	25	

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

Verified By: _____

Date: _____

9/8/09

527

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.

Client Sample ID: 102350

Client Project ID: 16512

CAS Project ID: P0902876

CAS Sample ID: P0902876-002DUP

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01185

Date Collected: 8/18/09

Date Received: 8/20/09

Date Analyzed: 8/25/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -5.8

Final Pressure (psig): 3.5

Canister Dilution Factor: 2.04

Compound	Sample Result		Duplicate		Average µg/m ³	% RPD	RPD Limit	Data Qualifier
	µg/m ³	ppbV	µg/m ³	ppbV				
n-Octane	1.67	0.358	2.08	0.446	1.875	22	25	
Tetrachloroethene	0.224	0.0331	0.255	0.0376	0.2395	13	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	
Ethylbenzene	1.19	0.274	1.39	0.321	1.29	16	25	
m,p-Xylenes	3.12	0.719	3.65	0.840	3.385	16	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	2.73	0.642	3.18	0.747	2.955	15	25	
o-Xylene	1.31	0.303	1.57	0.361	1.44	18	25	
n-Nonane	3.81	0.727	4.40	0.839	4.105	14	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
alpha-Pinene	103	18.5	120	21.6	111.5	15	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	2.15	0.438	2.47	0.503	2.31	14	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	0.290	0.0482	0.328	0.0547	0.309	12	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
d-Limonene	39.3	7.06	46.1	8.28	42.7	16	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	

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

Verified By: _____

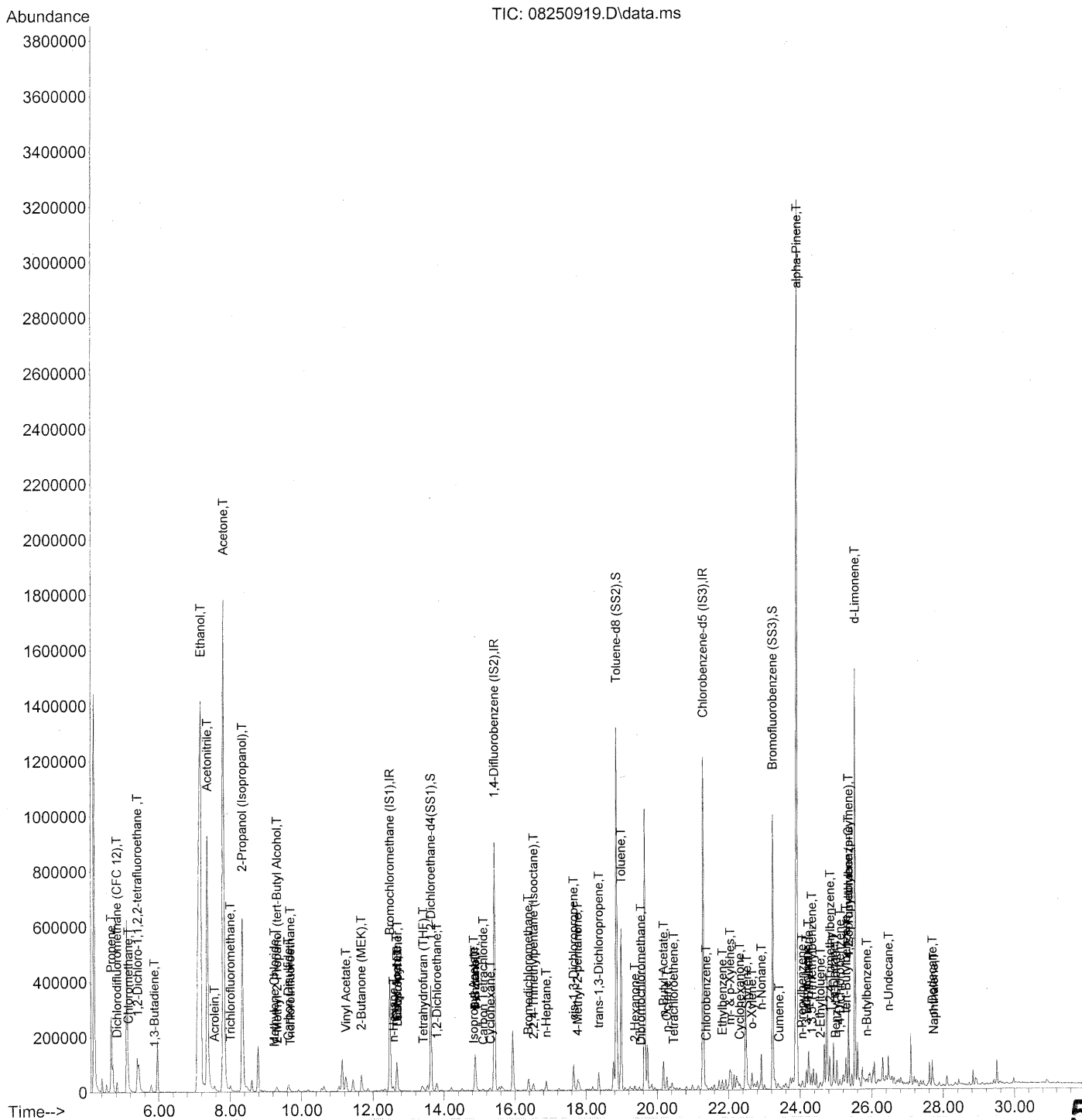
Date: _____

9/8/09

528

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 11:41 pm
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 17:11:24 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 11:41 pm
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 17:11:24 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

07/31/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	209184	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1048750	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	499910	25.000	ng	-0.02

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	394441	21.695	ng	-0.03
Spiked Amount	25.000		Recovery	= 86.76%		
57) Toluene-d8 (SS2)	18.85	98	1133979	25.960	ng	-0.02
Spiked Amount	25.000		Recovery	= 103.84%		
73) Bromofluorobenzene (SS3)	23.23	174	323996	28.127	ng	-0.01
Spiked Amount	25.000		Recovery	= 112.52%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	133889	9.327	ng	89
3) Dichlorodifluoromethan...	4.83	85	37761	1.609	ng	98
4) Chloromethane	5.14	50	5434	0.345	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	1688	0.177	ng	65
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	790	0.073	ng	# 29
8) Bromomethane	6.35	94	90	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.17	45	4443749	488.378	ng	100
11) Acetonitrile	7.36	41	1581411	59.346	ng	99
12) Acrolein	7.56	56	22473	3.245	ng	98
13) Acetone	7.81	58	1087627	126.685	ng	91
14) Trichlorofluoromethane	8.01	101	16995	0.801	ng	100
15) 2-Propanol (Isopropanol)	8.34	45	1410323	41.802	ng	99
16) Acrylonitrile	8.60	53	546	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.31	59	8132	0.272	ng	# 57
19) Methylene Chloride	9.24	84	1614	0.140	ng	92
20) 3-Chloro-1-propene (Al...	9.41	41	89	N.D.		
21) Trichlorotrifluoroethane	9.68	151	2620	0.340	ng	92
22) Carbon Disulfide	9.63	76	63083	1.552	ng	99
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	11.20	73	428	N.D.		
26) Vinyl Acetate	11.24	86	8076	4.622	ng	# 68
27) 2-Butanone (MEK)	11.67	72	28027	3.616	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.69	87	2585	0.249	ng	# 1
30) Ethyl Acetate	12.67	61	21835	5.407	ng	95
31) n-Hexane	12.58	57	10106	0.489	ng	95

0.5

530

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 11:41 pm
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 17:11:24 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	20545	1.130 ng		100
34) Tetrahydrofuran (THF)	13.41	72	3290	0.398 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	20729	1.247 ng		99
38) 1,1,1-Trichloroethane	14.18	97	87	N.D.		
39) Isopropyl Acetate	14.83	61	1881	0.242 ng	#	1
40) 1-Butanol	14.87	56	100643	7.394 ng		79
41) Benzene	14.87	78	24611	0.534 ng		100
42) Carbon Tetrachloride	15.10	117	4252	0.289 ng		100
43) Cyclohexane	15.30	84	4902	0.290 ng		95
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.09	63	87	N.D.		
46) Bromodichloromethane	16.37	83	3126	0.206 ng		94
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.55	88	112	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	26428	0.487 ng		87
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	16.87	71	11094	0.897 ng		98
52) cis-1,3-Dichloropropene	17.65	75	73847	3.848 ng		100
53) 4-Methyl-2-pentanone	17.76	58	13435	1.212 ng		99
54) trans-1,3-Dichloropropene	18.36	75	49659	2.721 ng		99
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	18.98	91	512040	11.928 ng		99
59) 2-Hexanone	19.37	43	14910	0.522 ng		93
60) Dibromochloromethane	19.54	129	931	0.092 ng	#	76
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.17	43	91800	2.728 ng		95
63) n-Octane	20.27	57	10602	1.022 ng		98
64) Tetrachloroethene	20.46	166	1241	0.125 ng		78
65) Chlorobenzene	21.37	112	1897	0.071 ng	#	43
66) Ethylbenzene	21.82	91	33535	0.683 ng		99
67) m- & p-Xylenes	22.04	91	70949	1.787 ng		99
68) Bromoform	22.15	173	209	N.D.		
69) Styrene	22.50	104	44698	1.558 ng		96
70) o-Xylene	22.65	91	30587	0.768 ng		98
71) n-Nonane	22.91	43	57050	2.157 ng		98
72) 1,1,2,2-Tetrachloroethane	22.65	83	440	N.D.		
74) Cumene	23.41	105	4068	0.081 ng		91
75) alpha-Pinene	23.90	93	1521602	59.042 ng		83
76) n-Propylbenzene	24.05	91	11757	0.186 ng	#	85
77) 3-Ethyltoluene	24.17	105	30645	0.638 ng		98
78) 4-Ethyltoluene	24.23	105	17208	0.370 ng		92
79) 1,3,5-Trimethylbenzene	24.32	105	15079	0.384 ng		99

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 11:41 pm
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 31 17:11:24 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

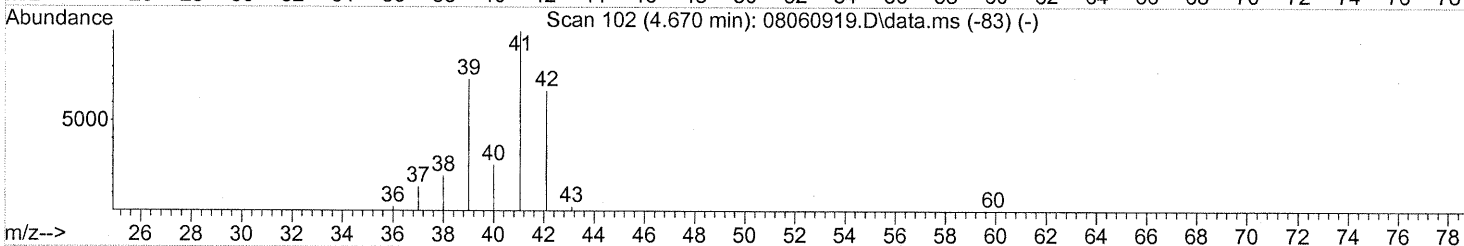
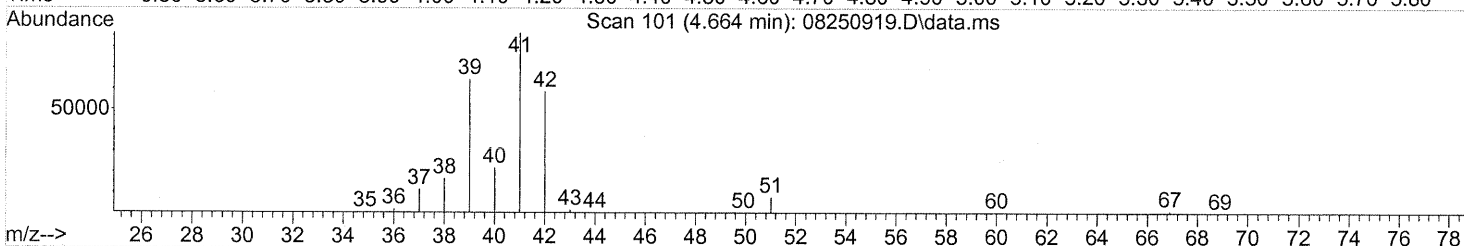
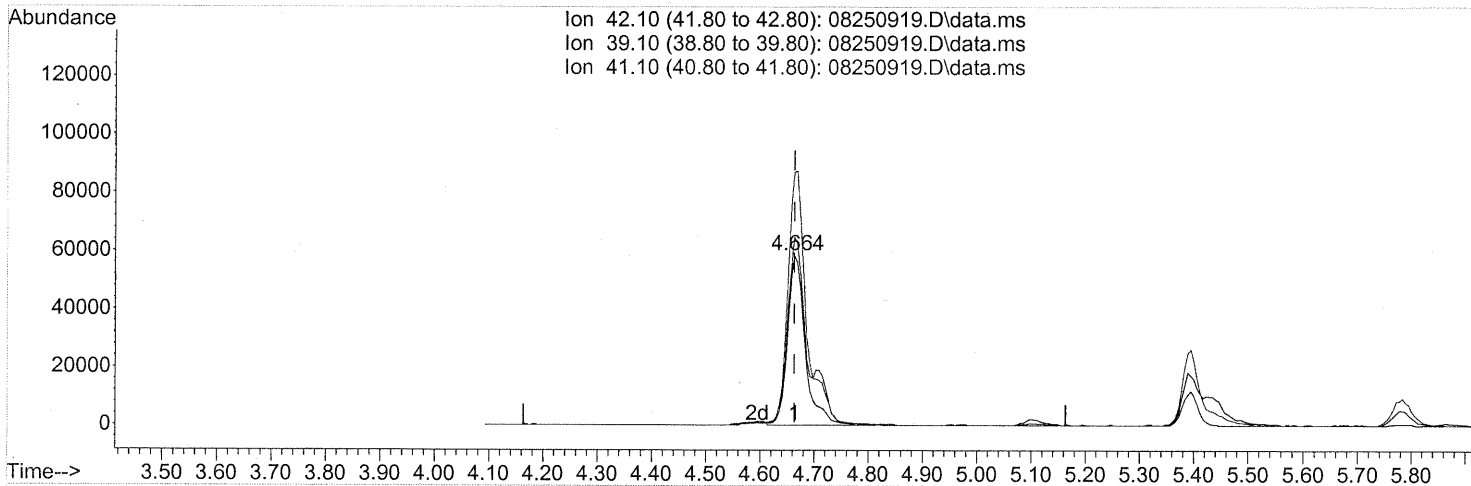
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	862	N.D.		
81) 2-Ethyltoluene	24.56	105	13052	0.269 ng		99
82) 1,2,4-Trimethylbenzene	24.83	105	48532	1.212 ng		89
83) n-Decane	24.93	57	63106	2.424 ng		89
84) Benzyl Chloride	24.99	91	2334	0.062 ng		68
85) 1,3-Dichlorobenzene	0.00	146	0	N.D. d		
86) 1,4-Dichlorobenzene	25.10	146	3479	0.161 ng		89
87) sec-Butylbenzene	25.16	105	2195	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	146611	3.039 ng		92
89) 1,2,3-Trimethylbenzene	25.35	105	20215	0.496 ng	#	21
90) 1,2-Dichlorobenzene	25.53	146	92	N.D.		
91) d-Limonene	25.53	68	384816	22.598 ng		94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.46	57	36307	1.311 ng		79
94) 1,2,4-Trichlorobenzene	27.59	180	502	N.D.		
95) Naphthalene	27.73	128	17732	0.326 ng		98
96) n-Dodecane	27.69	57	30417	0.945 ng		95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.30	55	12830	0.721 ng		91
99) tert-Butylbenzene	25.27	119	4426	0.114 ng		96
100) n-Butylbenzene	25.85	91	8592	0.193 ng	#	48

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(2) Propene (T)

4.664min (-0.000) 9.33ng

M

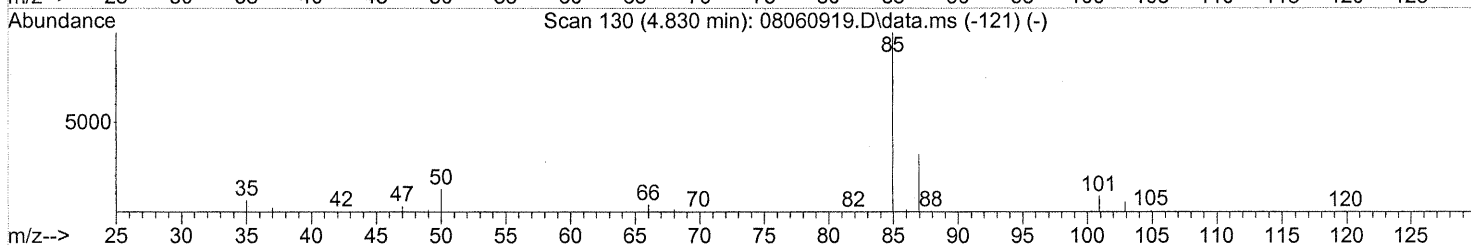
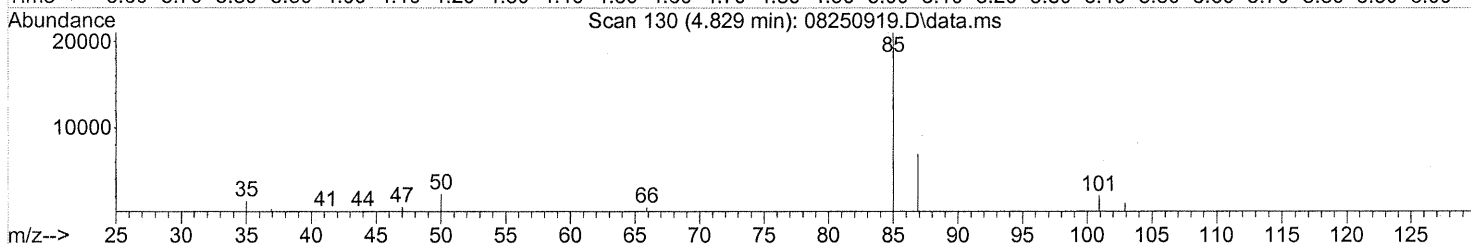
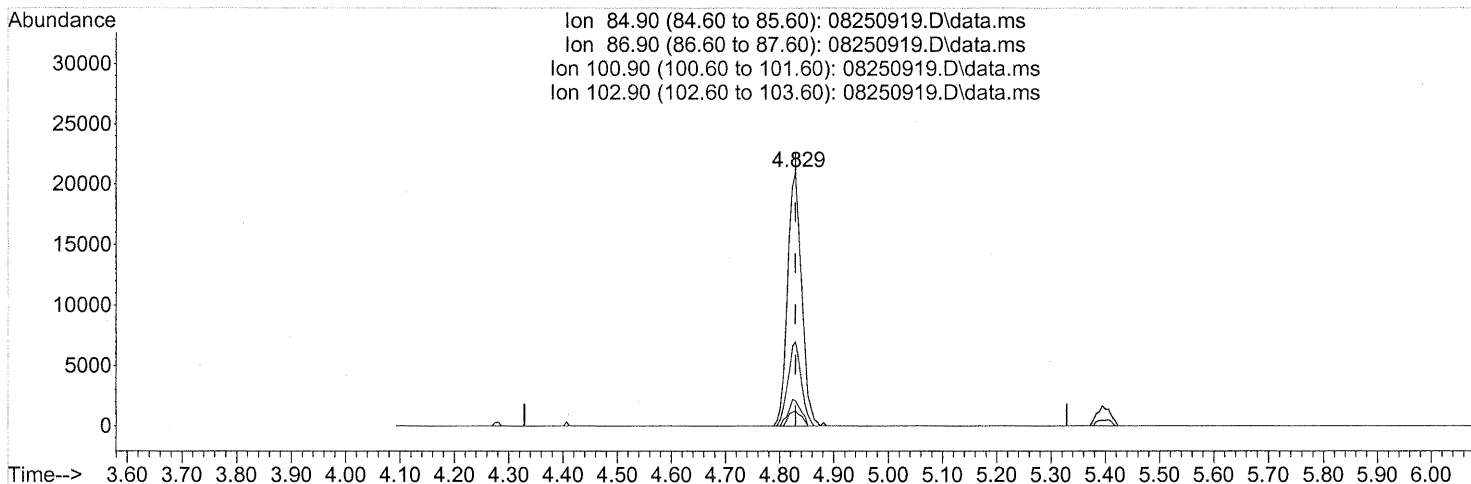
response 133889

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	127.59
41.10	150.20	160.61
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
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Quant Time: Aug 26 06:39:40 2009
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 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.829min (-0.000) 1.61ng

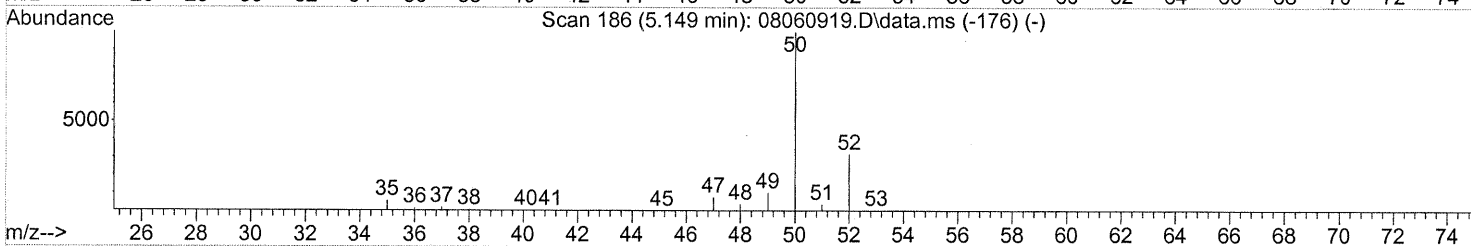
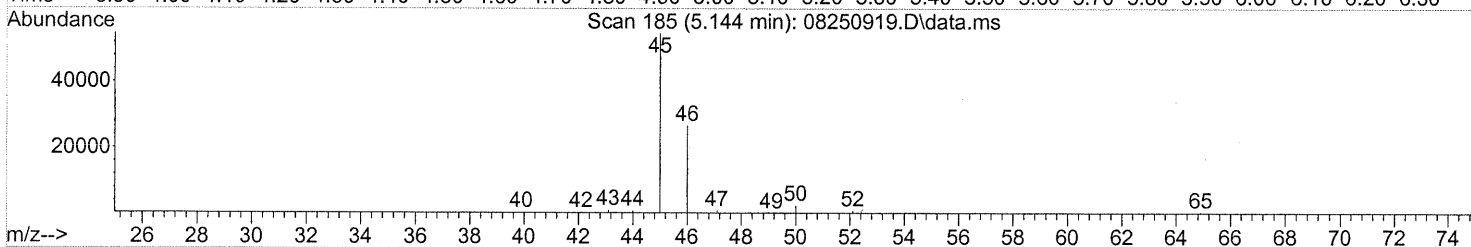
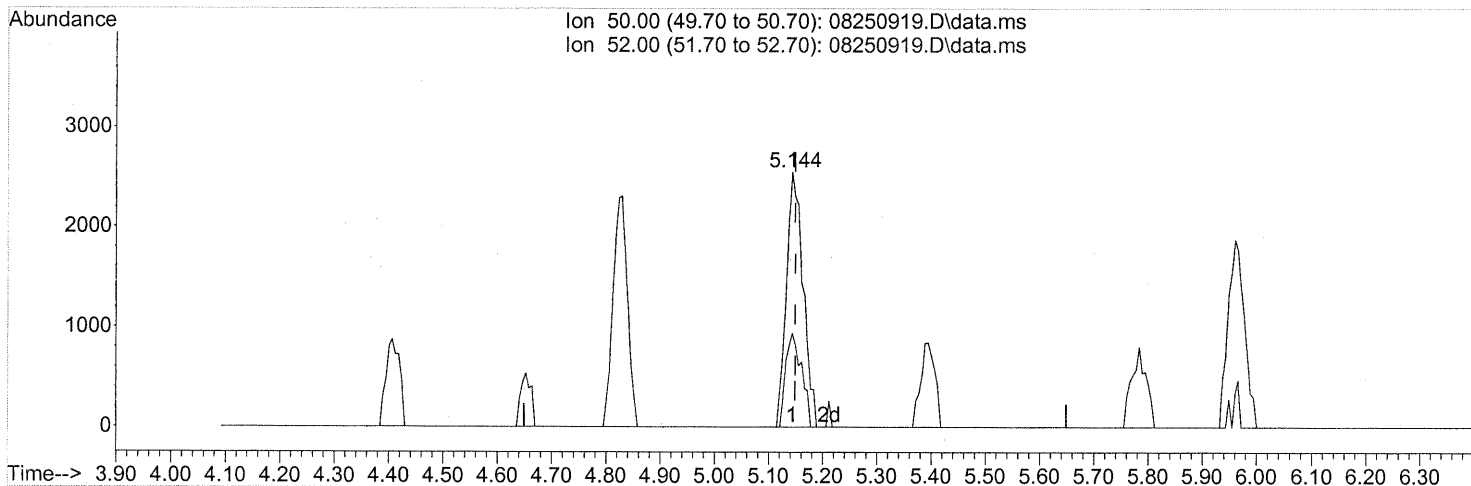
response 37761

Ion	Exp%	Act%
84.90	100	100
86.90	32.80	31.52
100.90	8.80	9.35
102.90	5.20	5.30

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
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Quant Time: Aug 26 06:39:40 2009
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 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(4) Chloromethane (T)

5.144min (-0.006) 0.34ng

response 5434

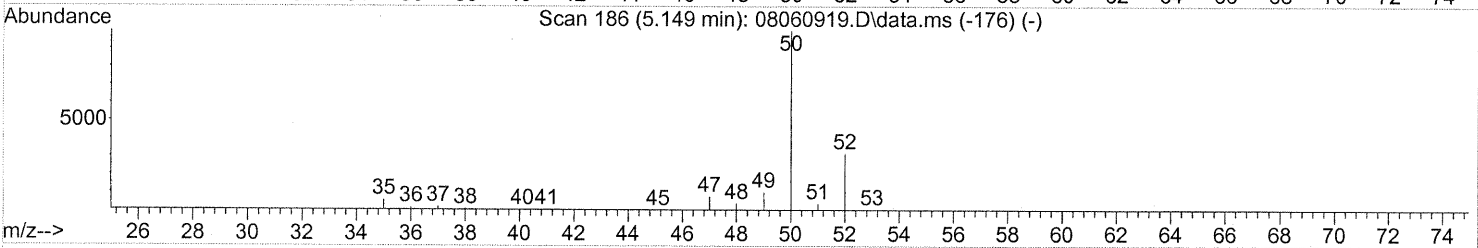
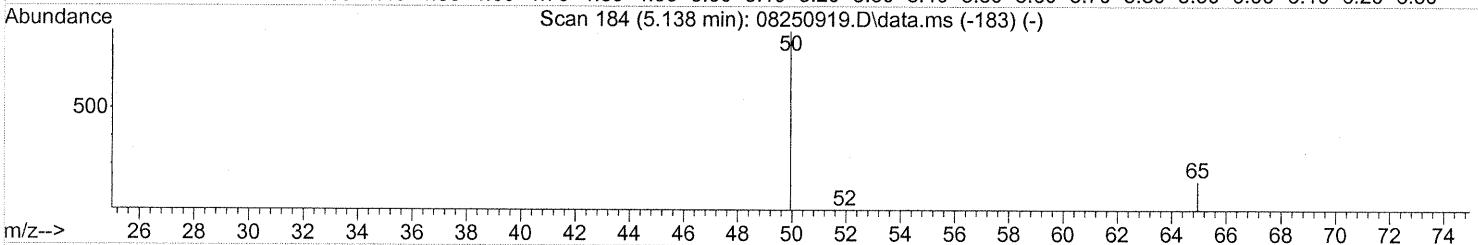
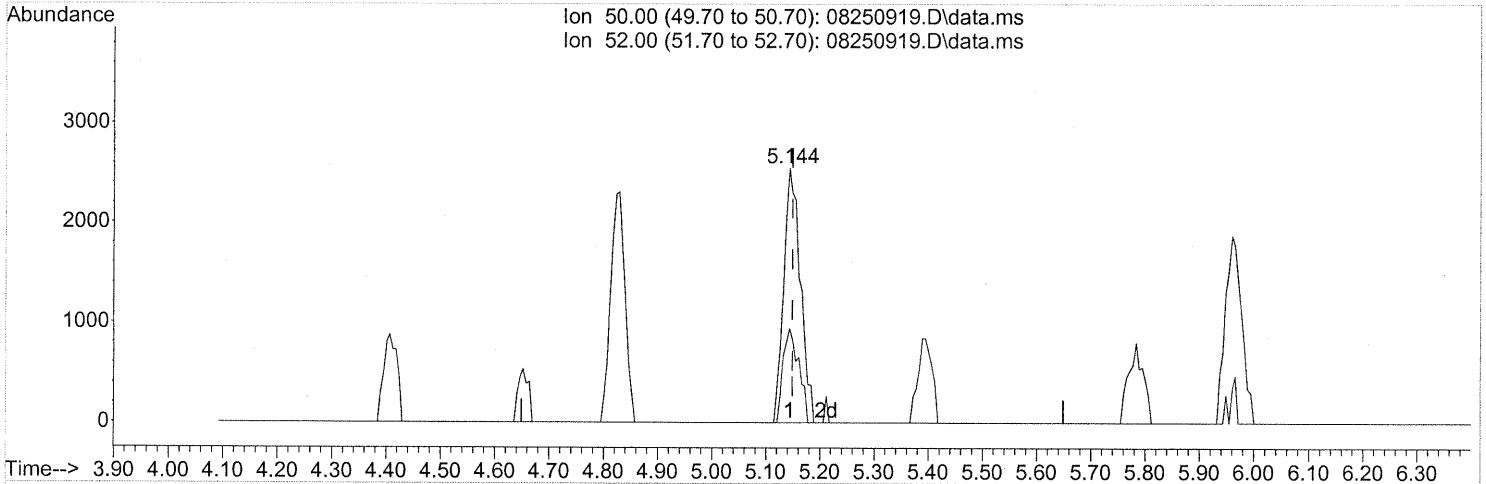
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	34.78
0.00	0.00	0.00
0.00	0.00	0.00

Bejave subta.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(4) Chloromethane (T)

5.144min (-0.006) 0.34ng

response 5434

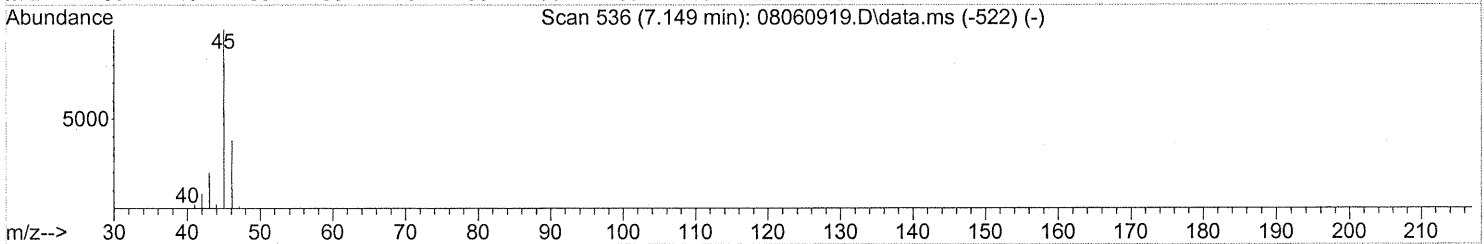
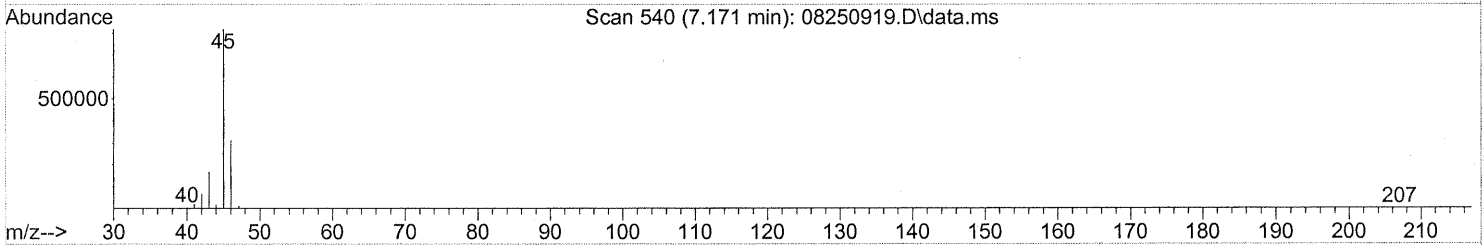
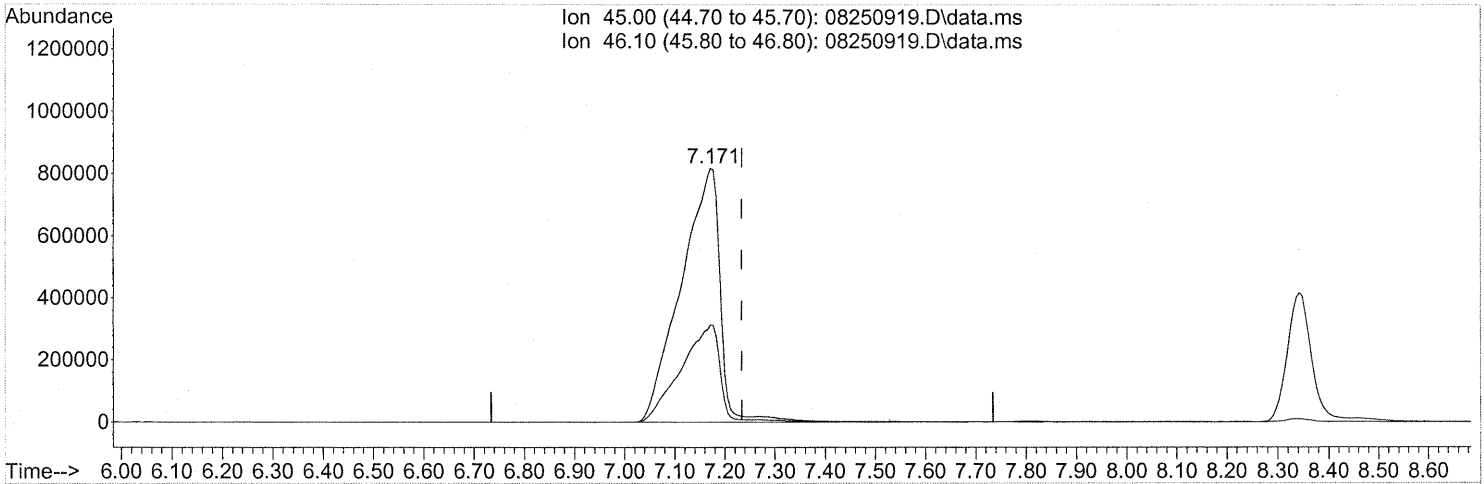
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	34.78
0.00	0.00	0.00
0.00	0.00	0.00

After substa -

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(10) Ethanol (T)

7.171min (-0.063) 488.38ng

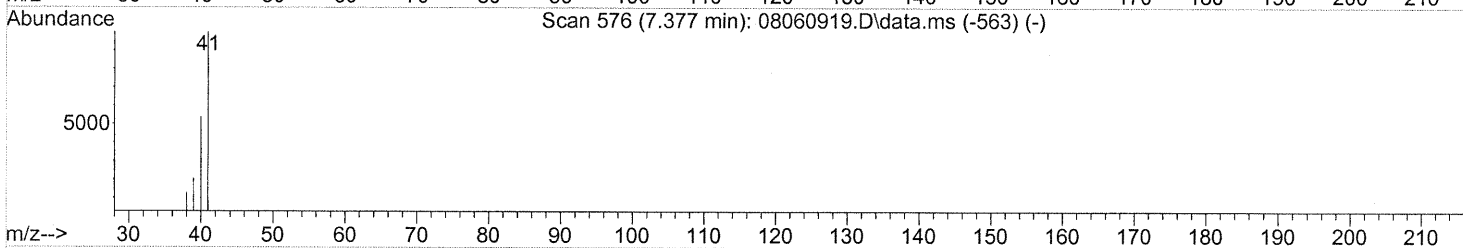
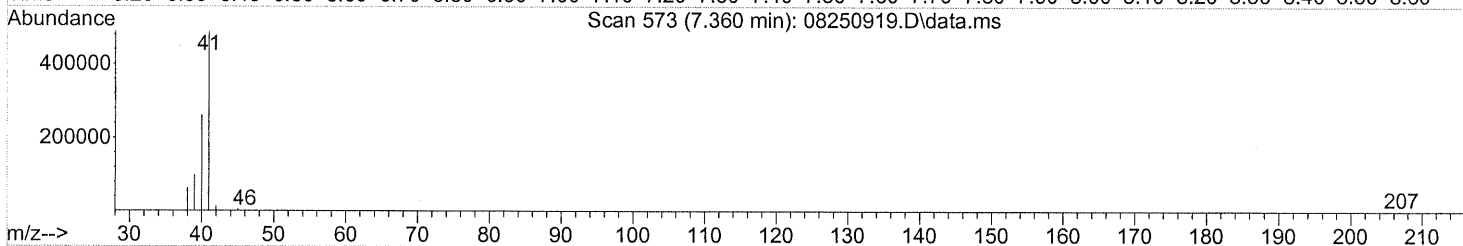
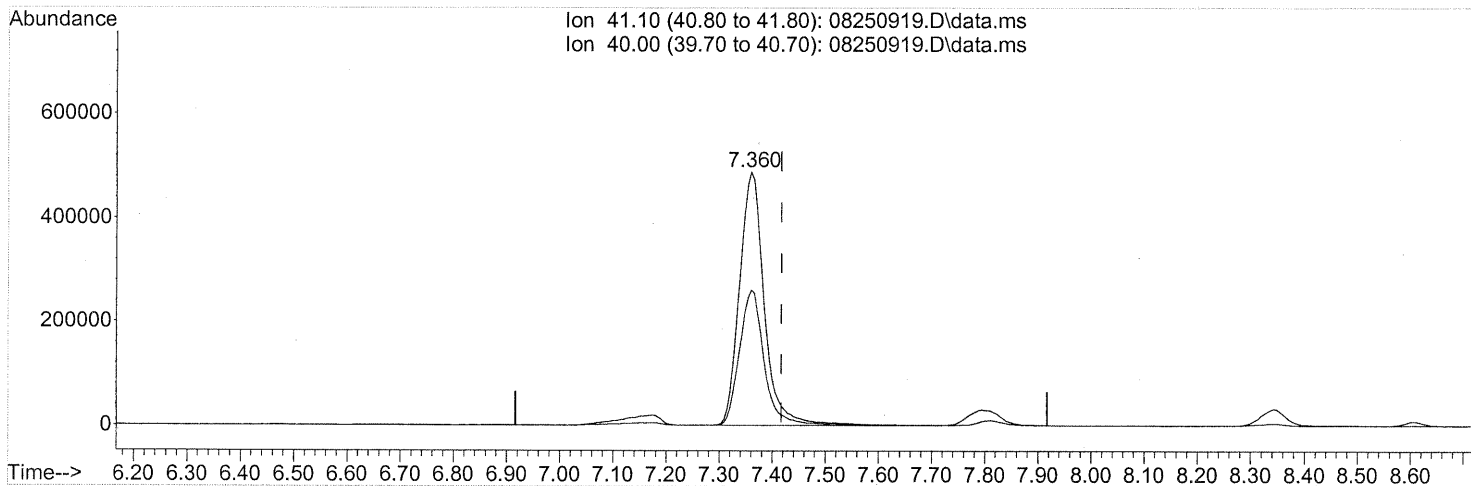
response 4443749

Ion	Exp%	Act%
45.00	100	100
46.10	38.40	38.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

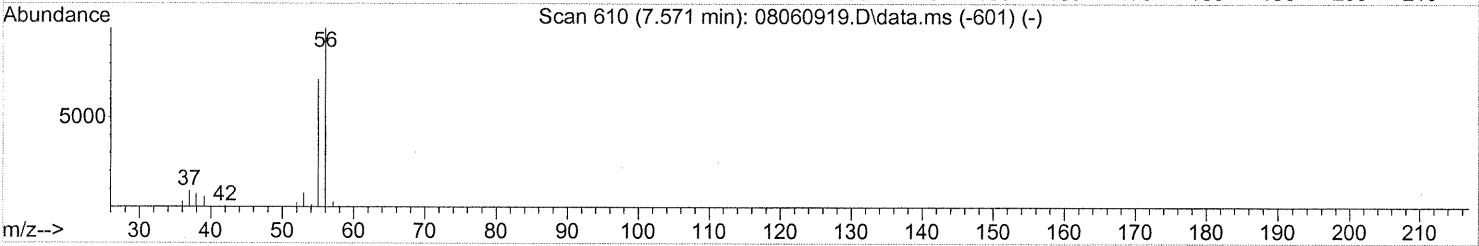
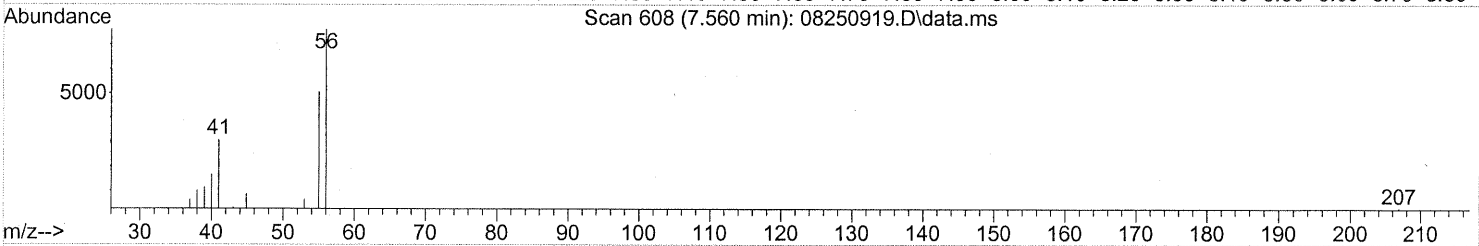
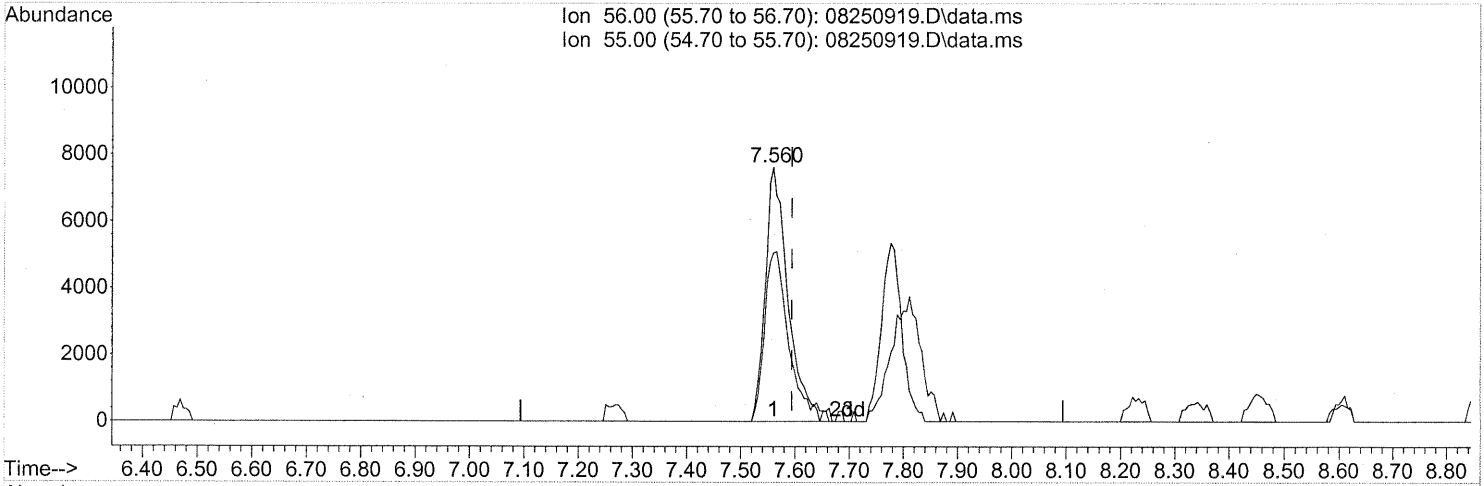
(11) Acetonitrile (T)
 7.360min (-0.057) 59.35ng
 response 1581411

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(12) Acrolein (T)

7.560min (-0.034) 3.24ng

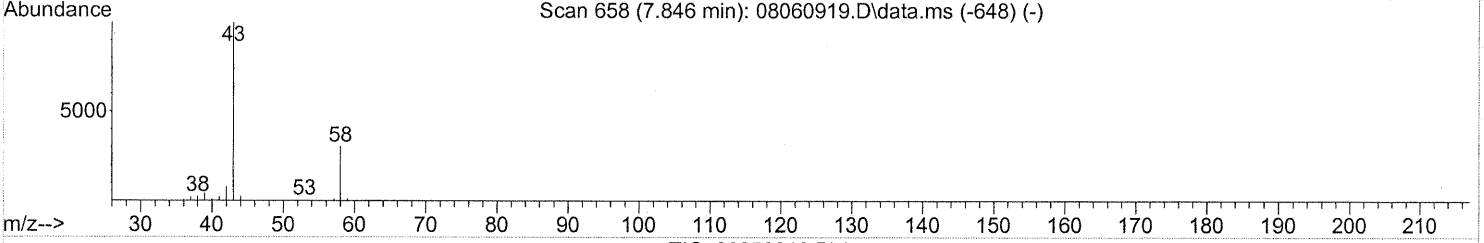
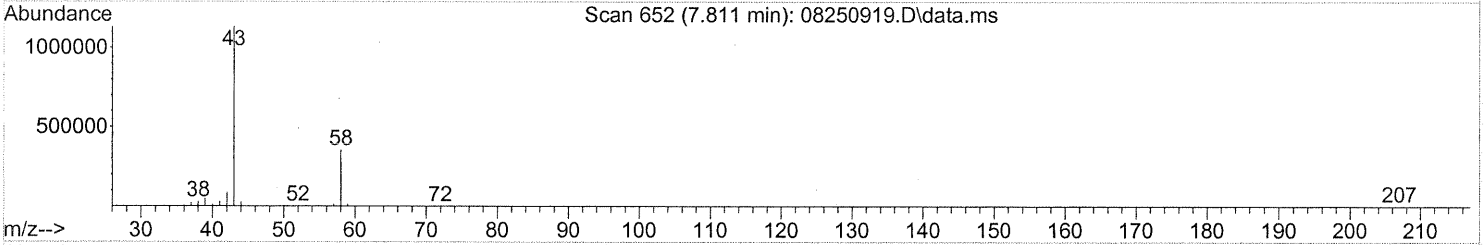
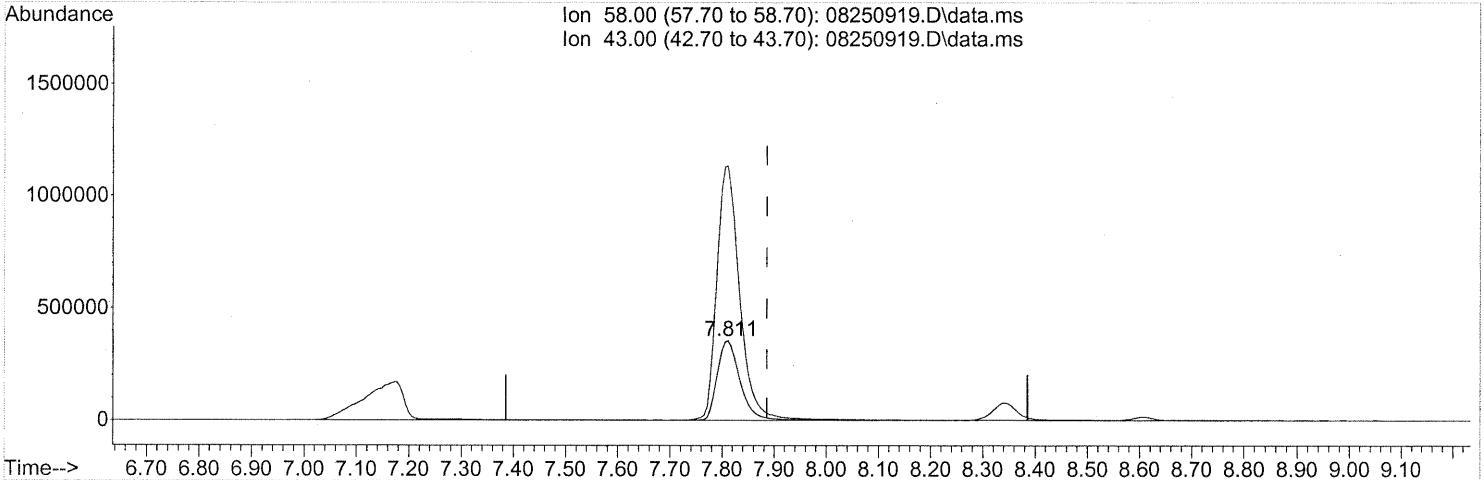
response 22473

Ion	Exp%	Act%
56.00	100	100
55.00	68.10	69.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

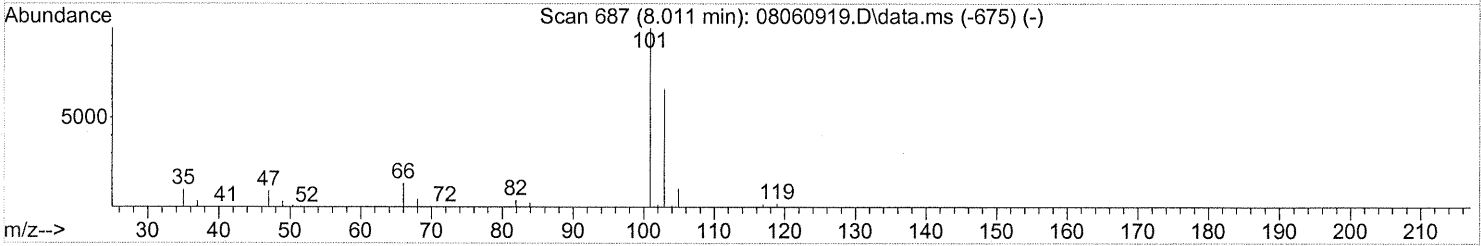
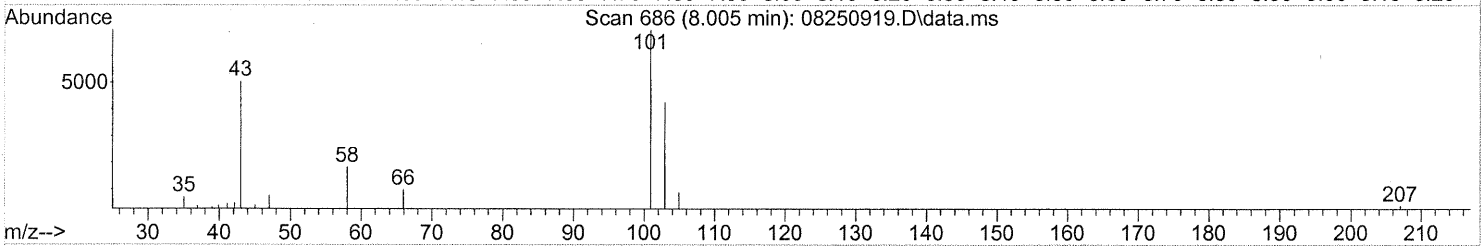
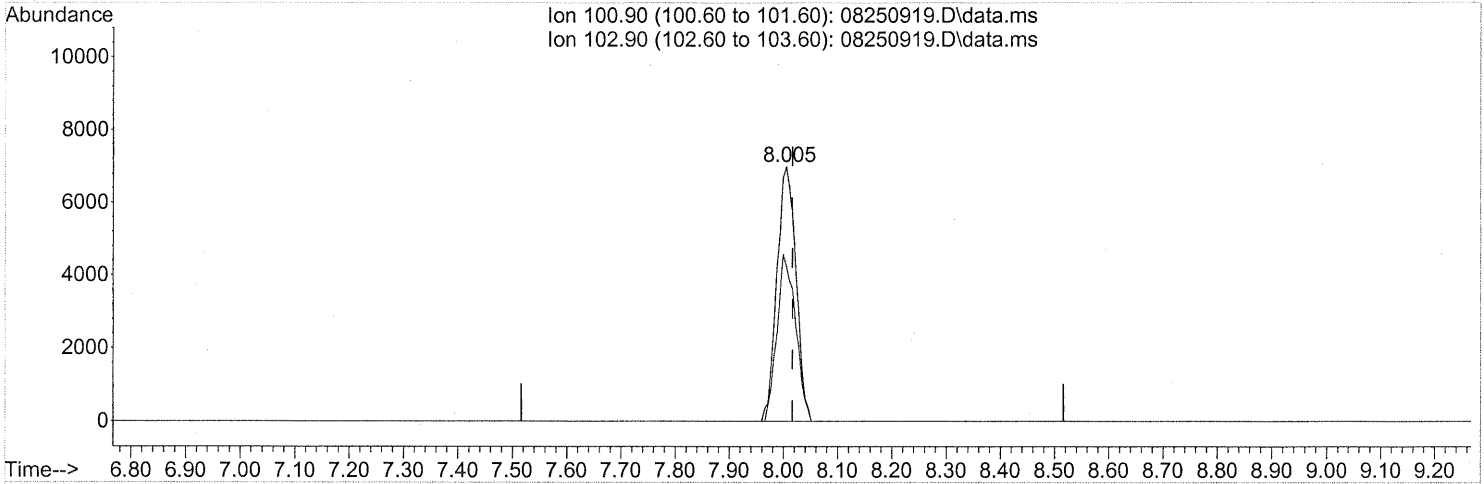
(13) Acetone (T)
 7.811min (-0.075) 126.69ng
 response 1087627

Ion	Exp%	Act%
58.00	100	100
43.00	340.40	321.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.011) 0.80ng

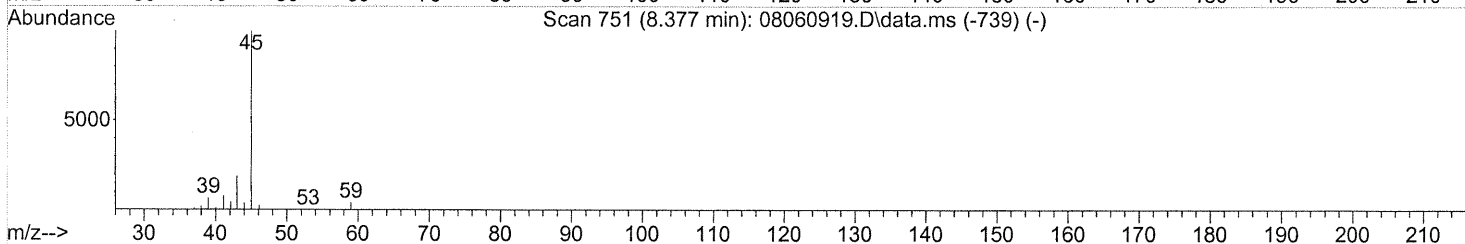
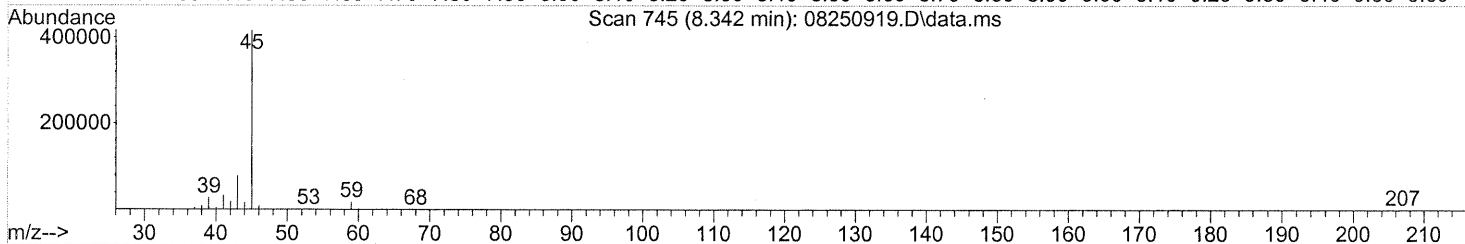
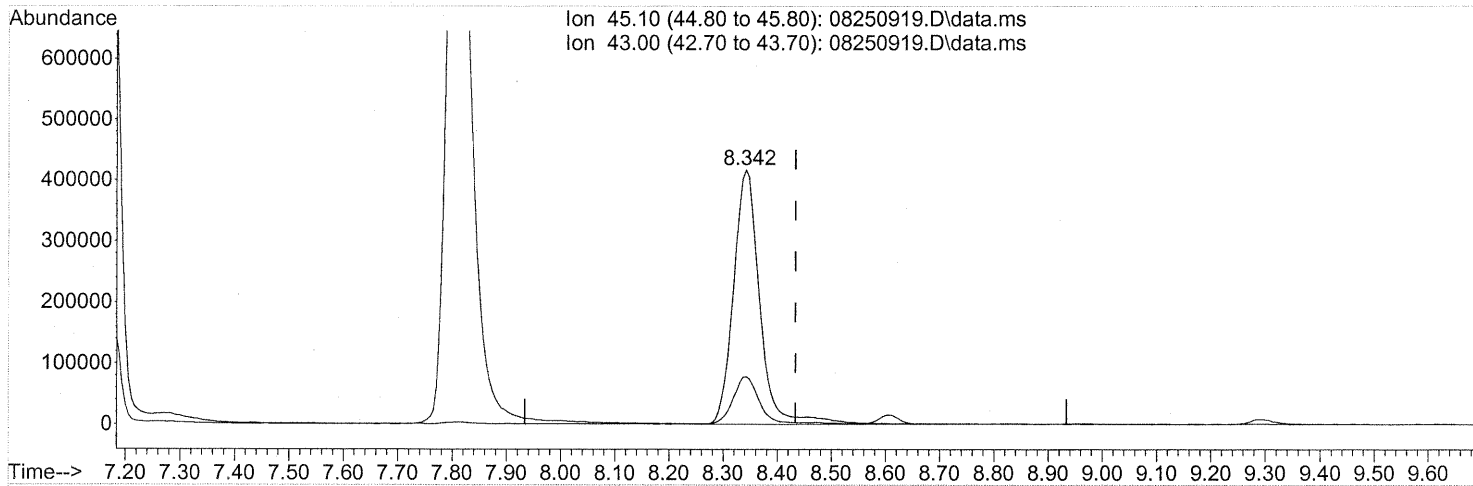
response 16995

Ion	Exp%	Act%
100.90	100	100
102.90	64.40	64.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

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

8.342min (-0.091) 41.80ng

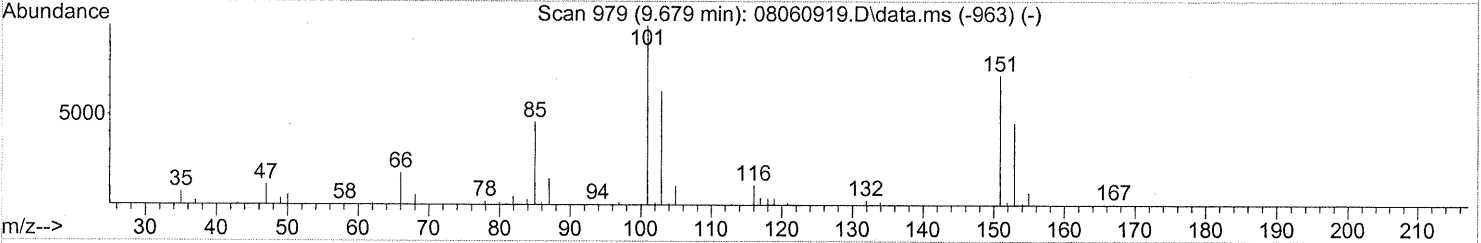
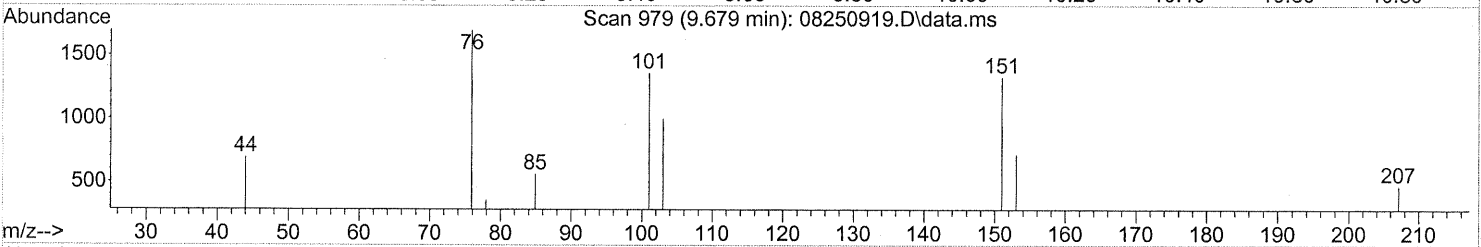
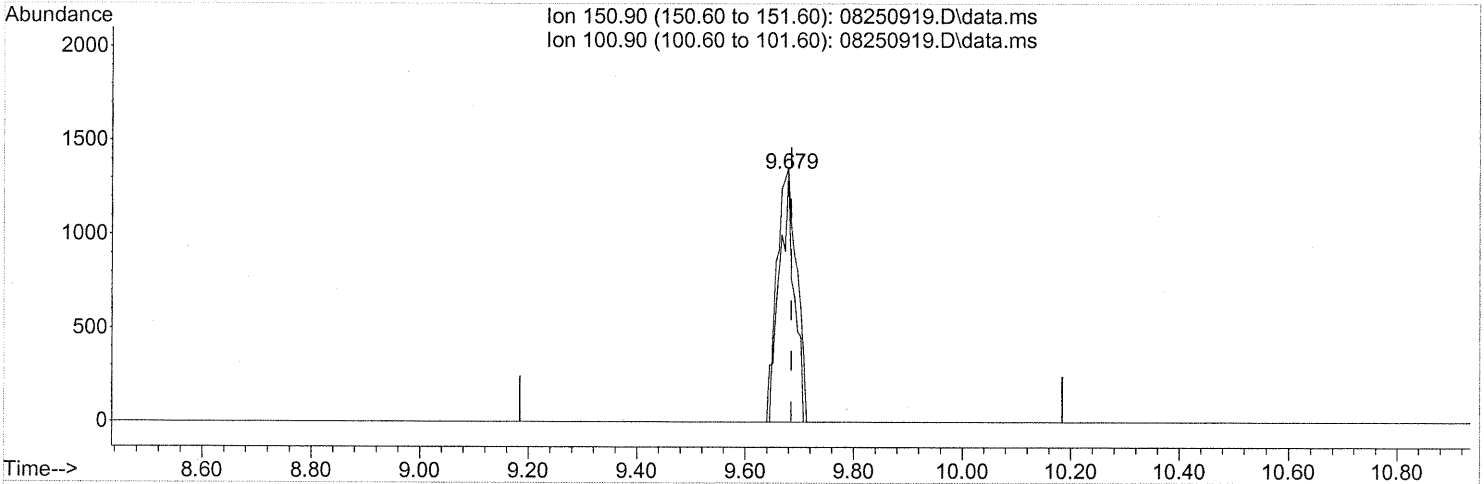
response 1410323

Ion	Exp%	Act%
45.10	100	100
43.00	19.00	18.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.34ng

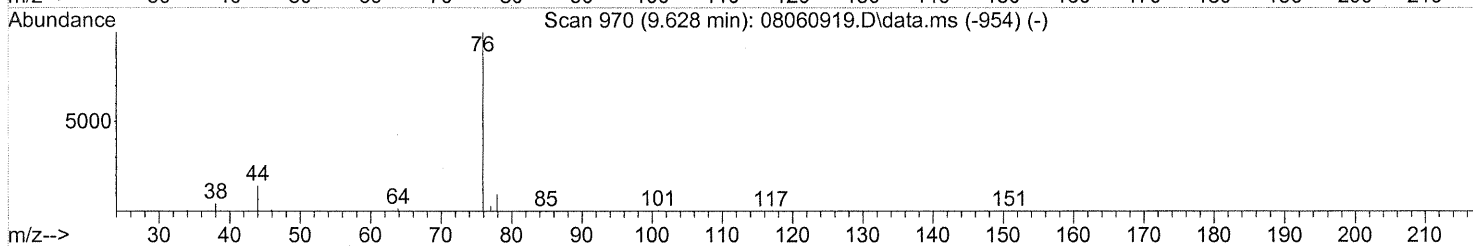
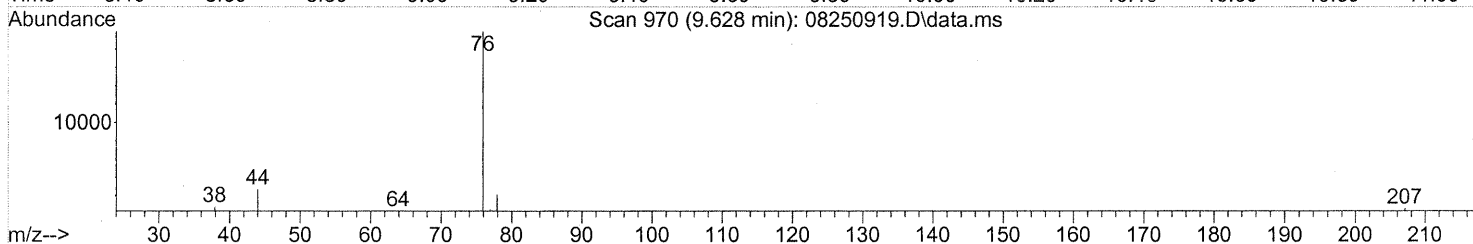
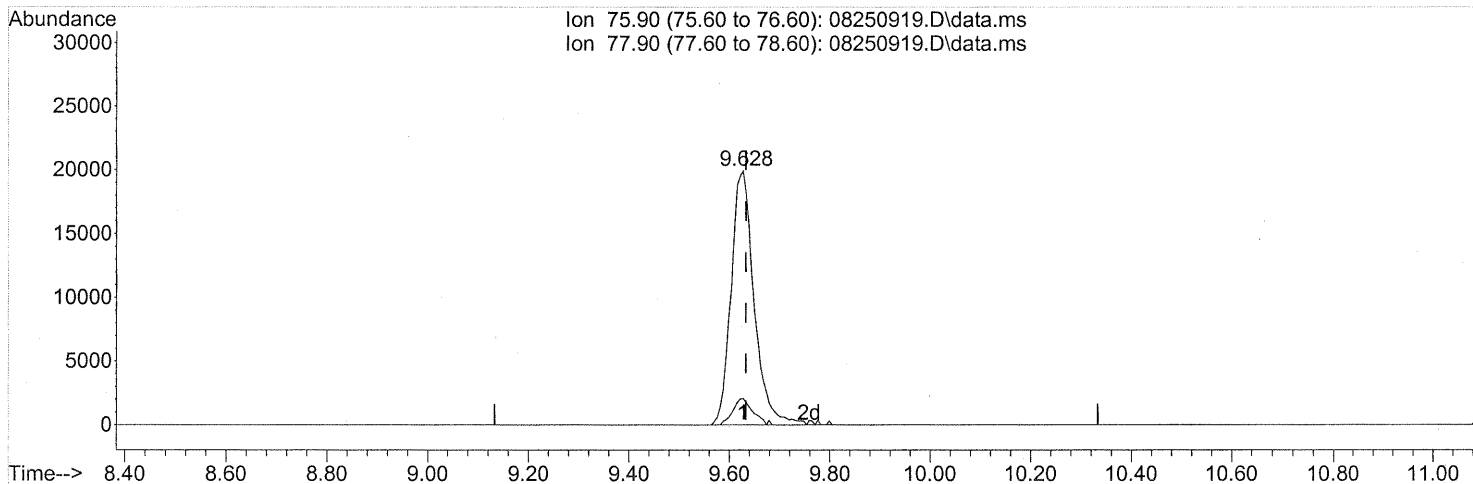
response 2620

Ion	Exp%	Act%
150.90	100	100
100.90	138.40	128.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(22) Carbon Disulfide (T)

9.628min (-0.006) 1.55ng

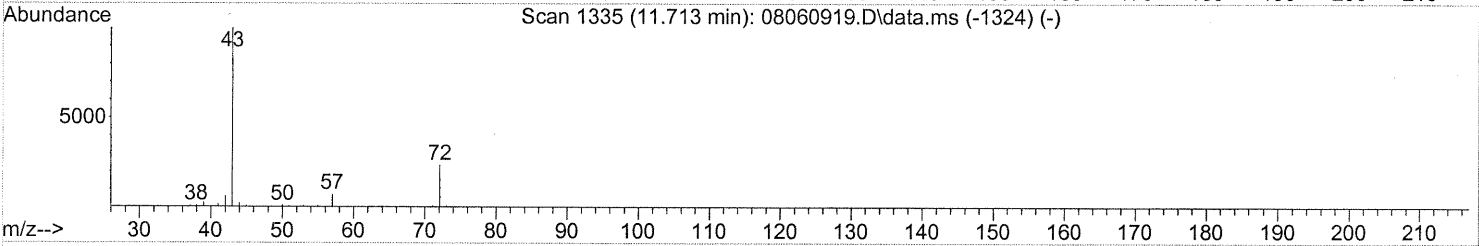
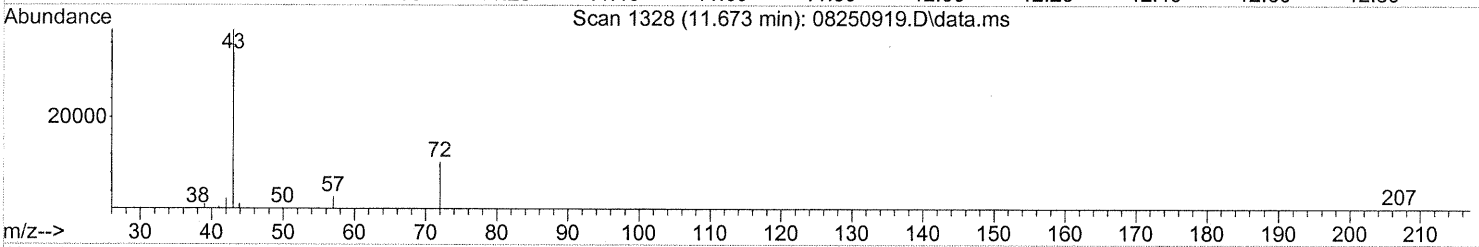
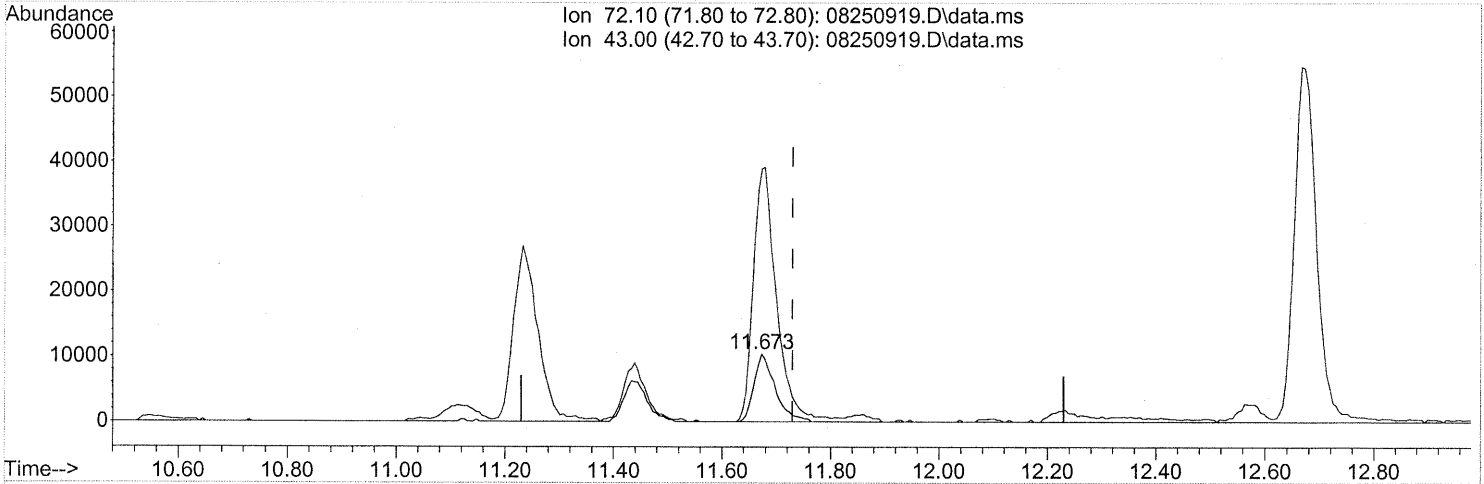
response 63083

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

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

11.673min (-0.057) 3.62ng

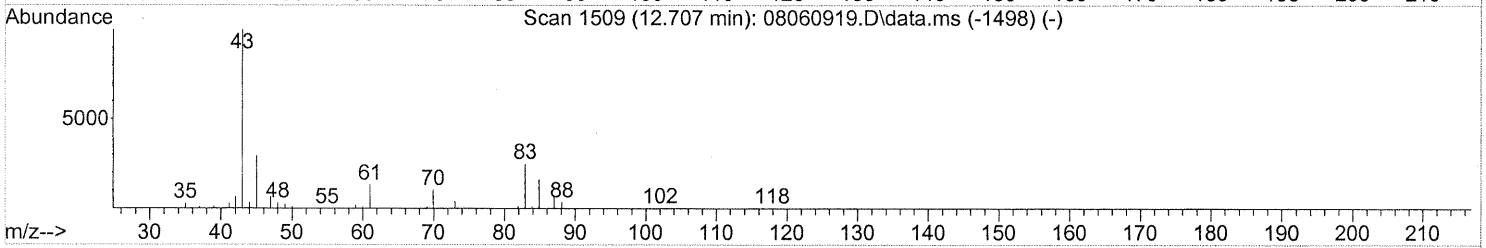
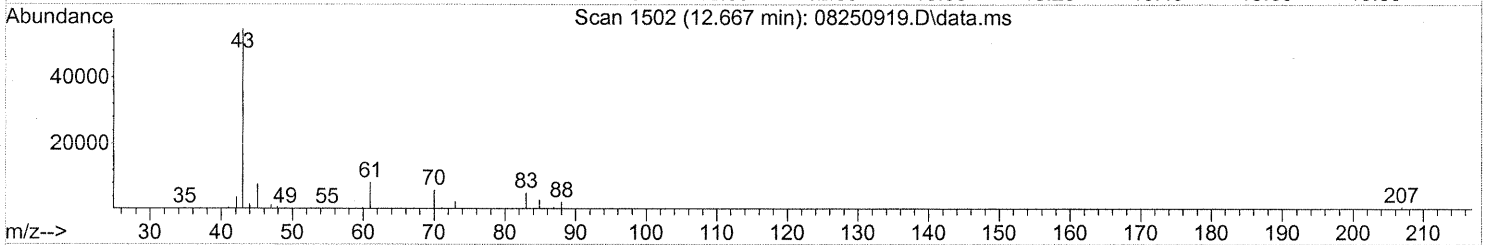
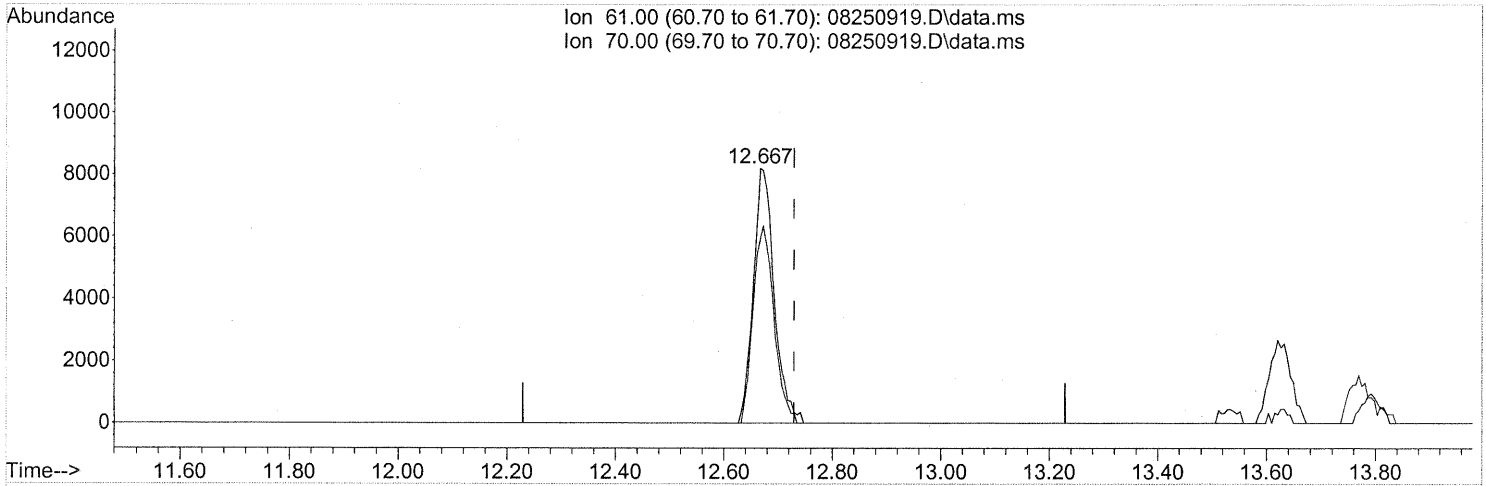
response 28027

Ion	Exp%	Act%
72.10	100	100
43.00	437.40	413.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

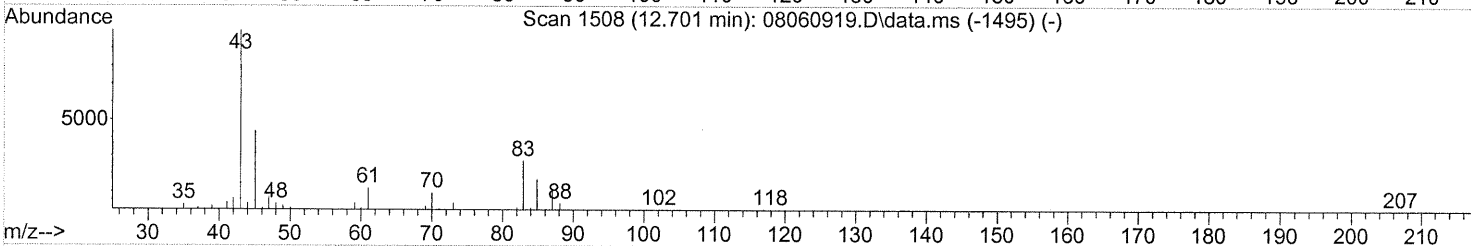
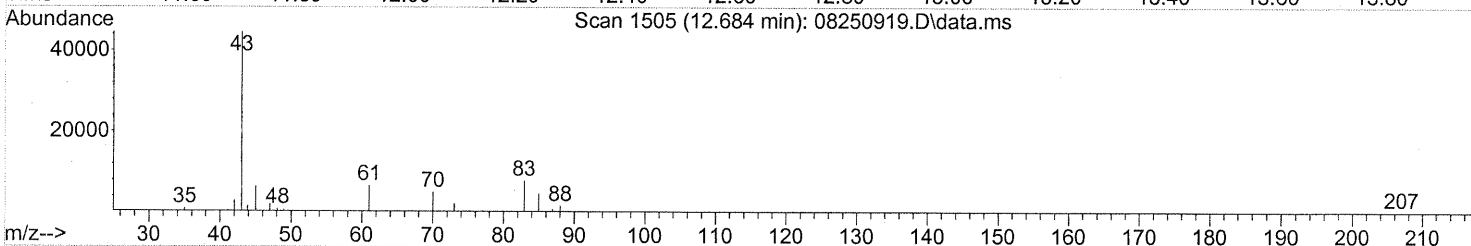
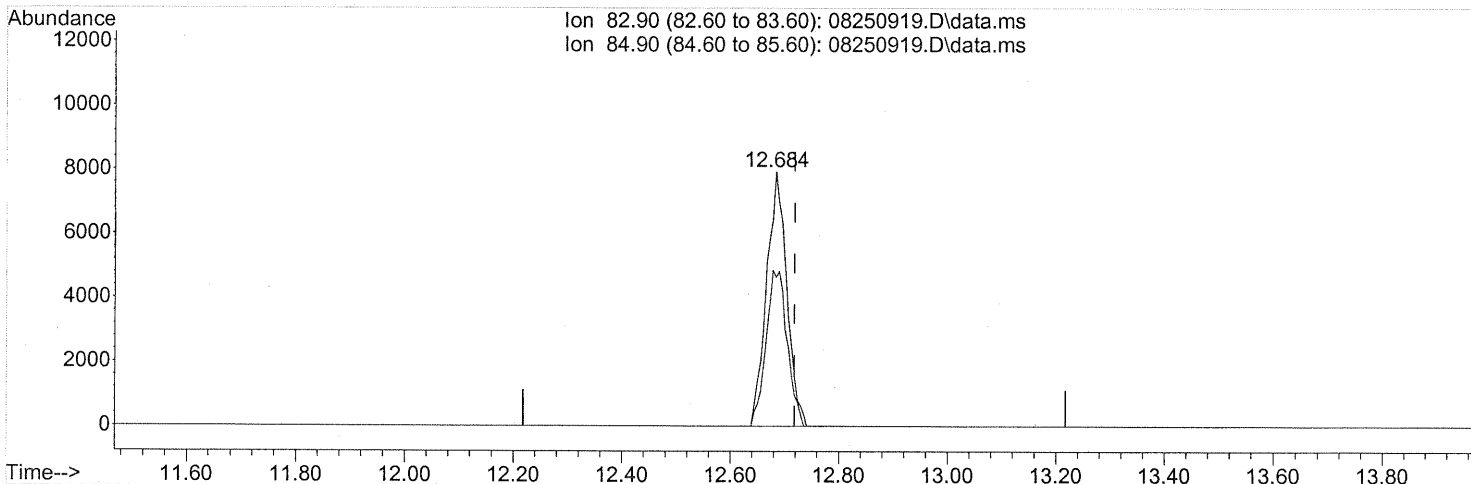
(30) Ethyl Acetate (T)
 12.667min (-0.063) 5.41ng
 response 21835

Ion	Exp%	Act%
61.00	100	100
70.00	82.00	77.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

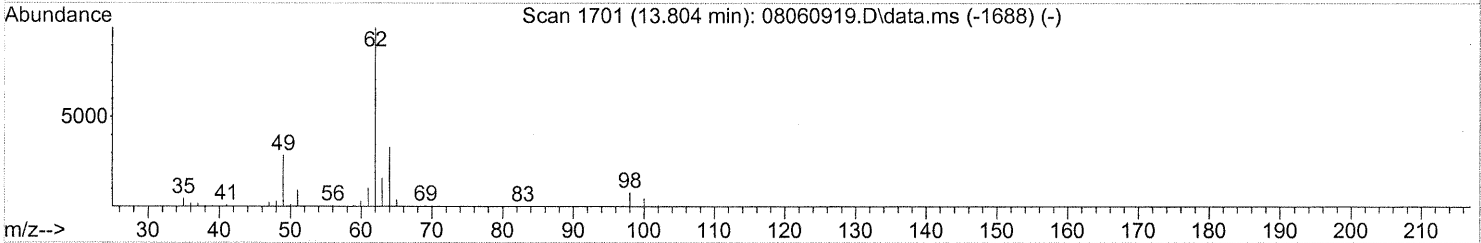
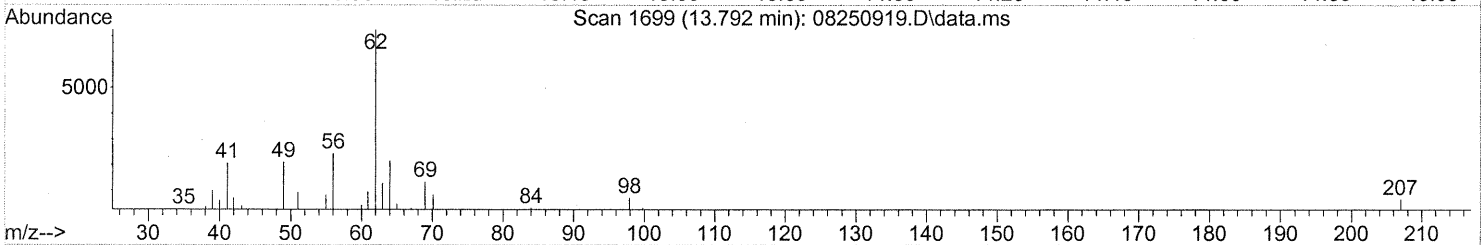
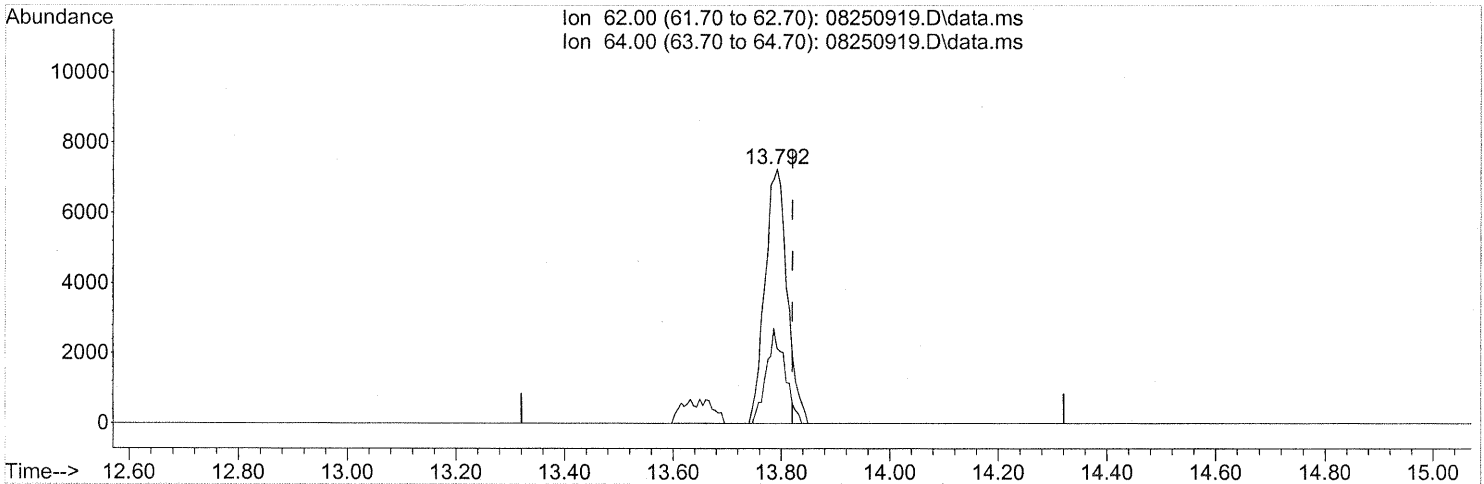
(32) Chloroform (T)
 12.684min (-0.034) 1.13ng
 response 20545

Ion	Exp%	Act%
82.90	100	100
84.90	64.30	64.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(36) 1,2-Dichloroethane (T)

13.792min (-0.029) 1.25ng

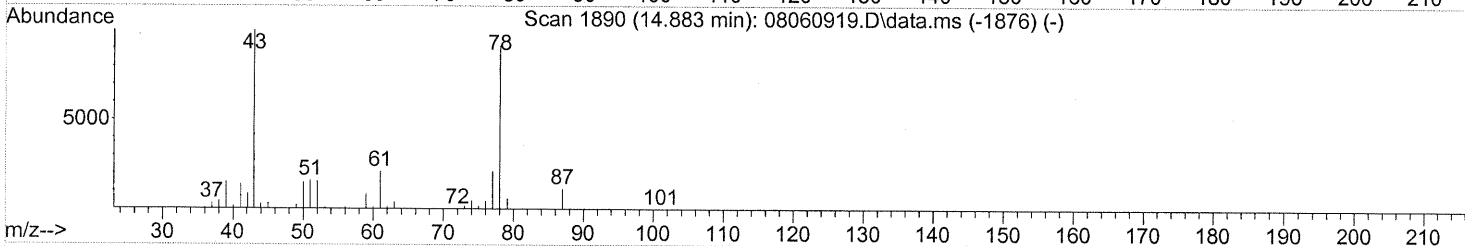
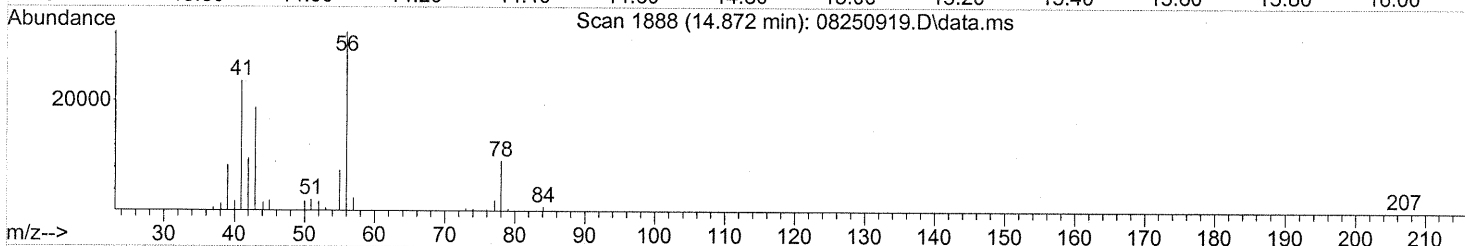
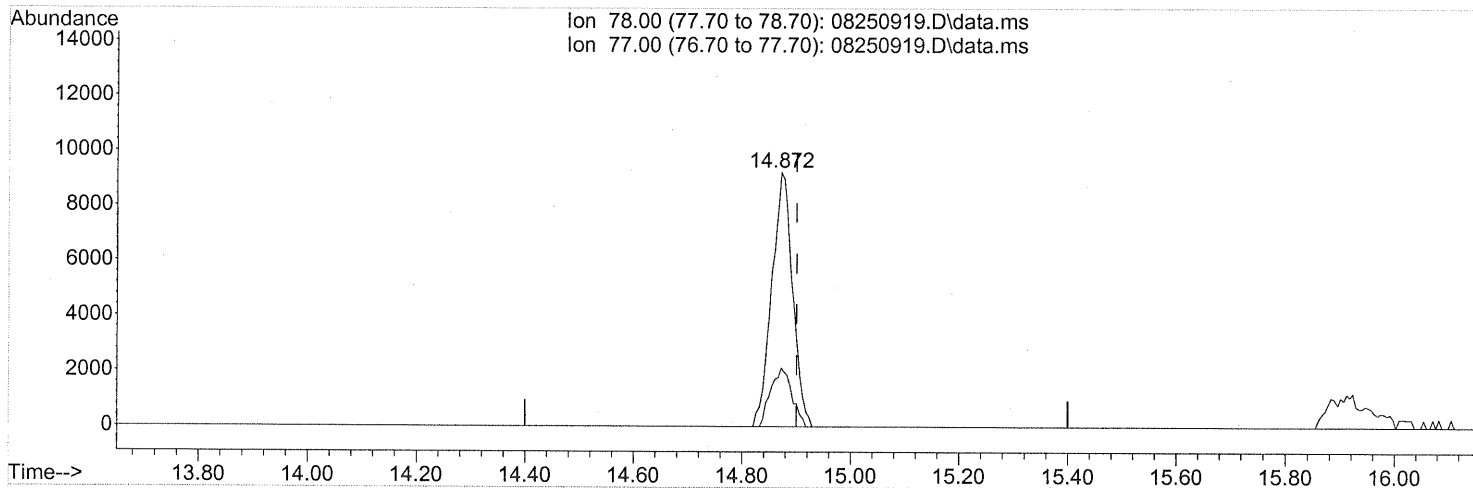
response 20729

Ion	Exp%	Act%
62.00	100	100
64.00	30.80	31.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(41) Benzene (T)

14.872min (-0.029) 0.53ng

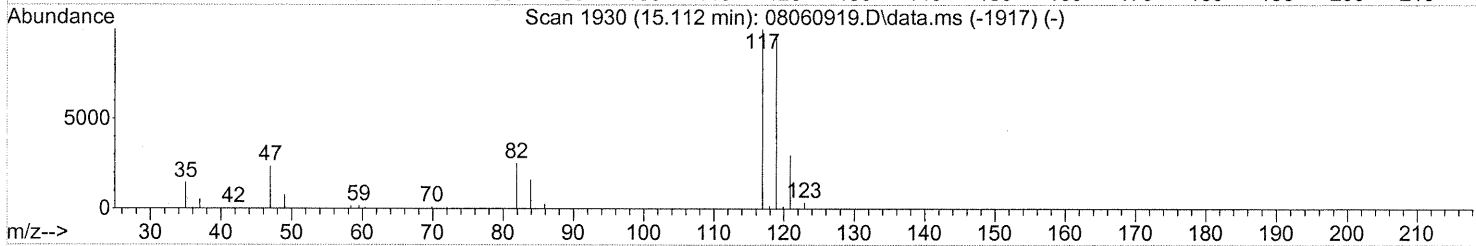
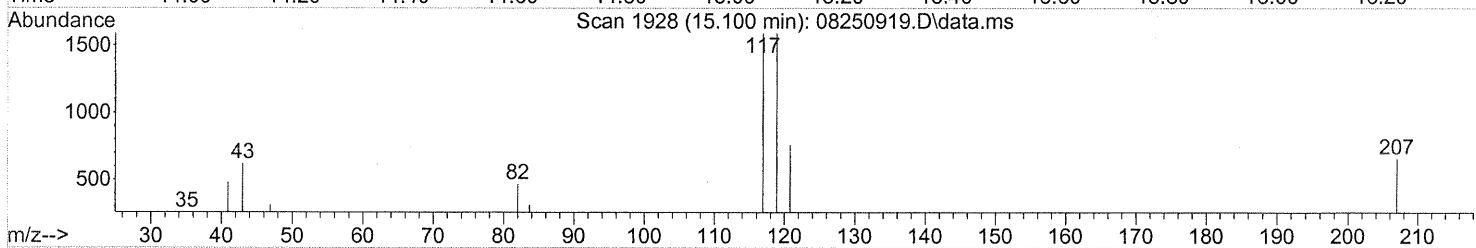
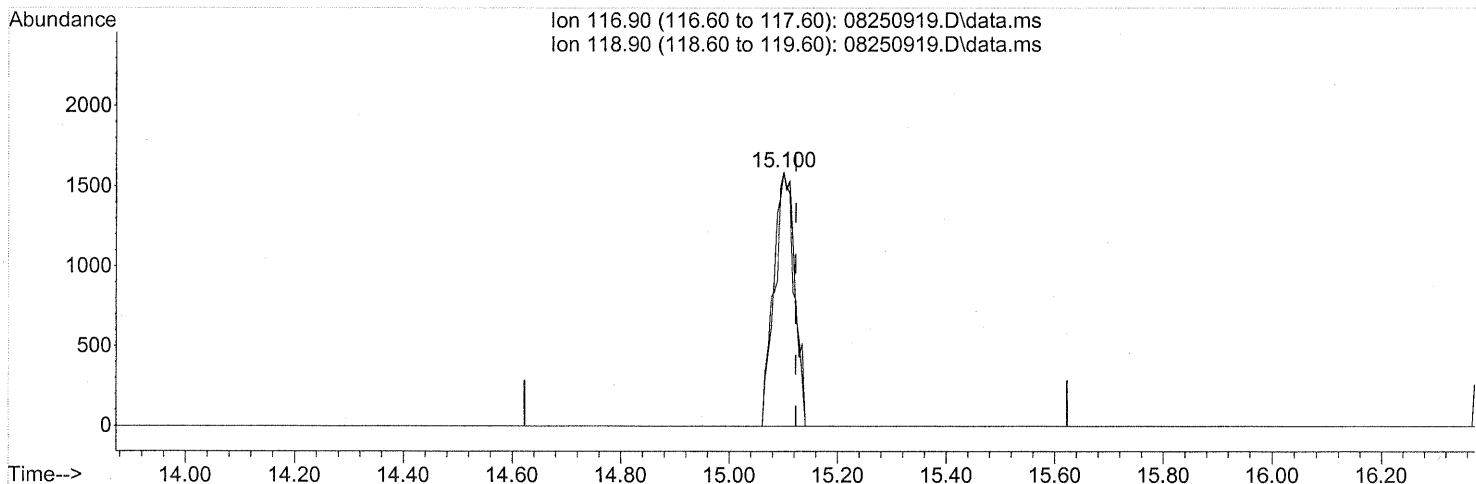
response 24611

Ion	Exp%	Act%
78.00	100	100
77.00	23.60	23.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250919.D
Acq On : 25 Aug 2009 23:41
Operator : WA/CC
Sample : P0902876-002 dup (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250919.D\data.ms

(42) Carbon Tetrachloride (T)

15.100min (-0.023) 0.29ng

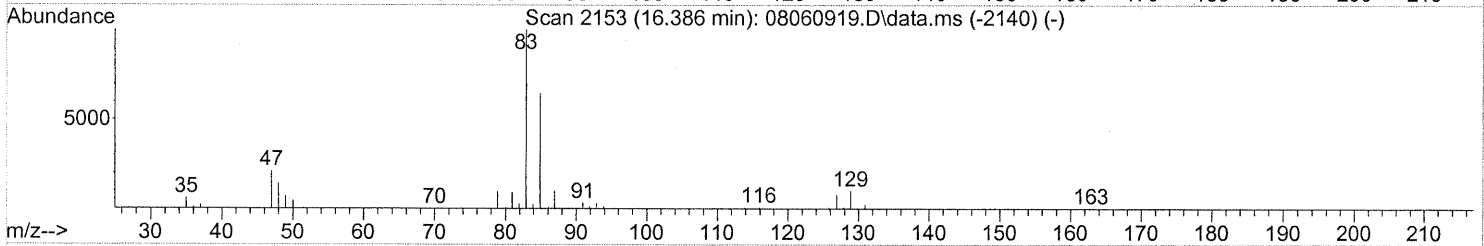
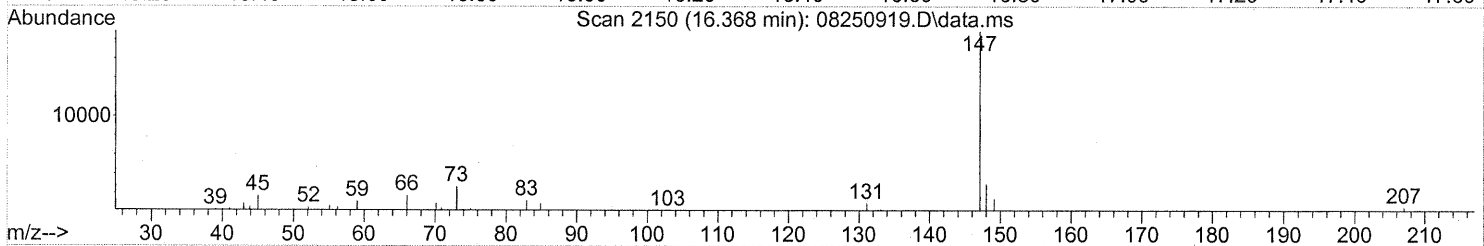
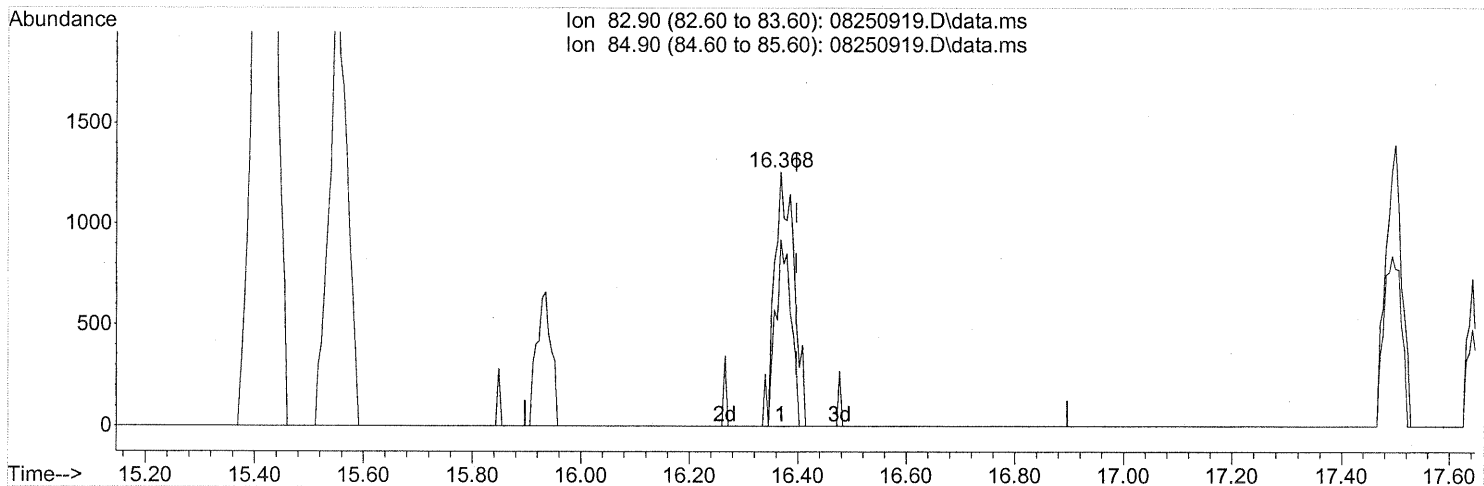
response 4252

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(46) Bromodichloromethane (T)

16.368min (-0.029) 0.21ng

response 3126

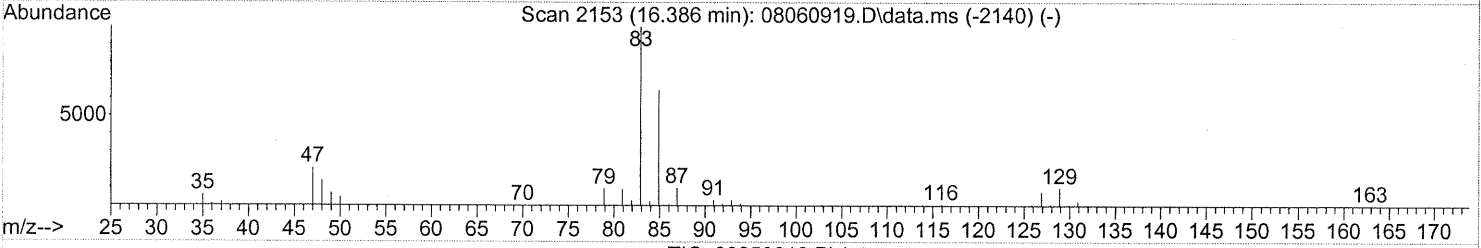
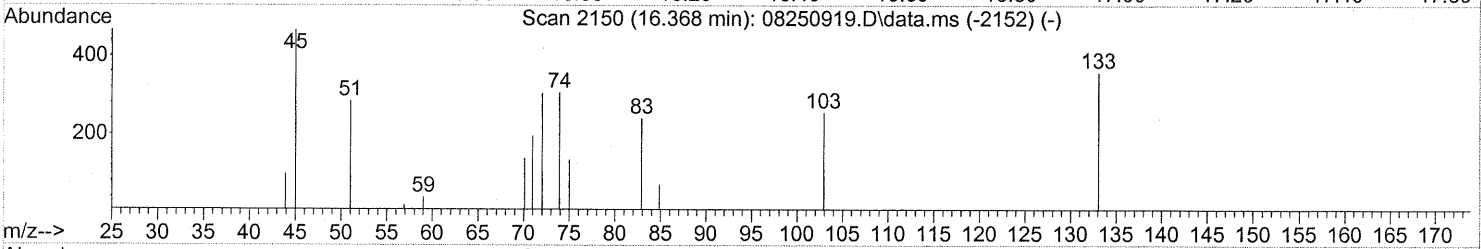
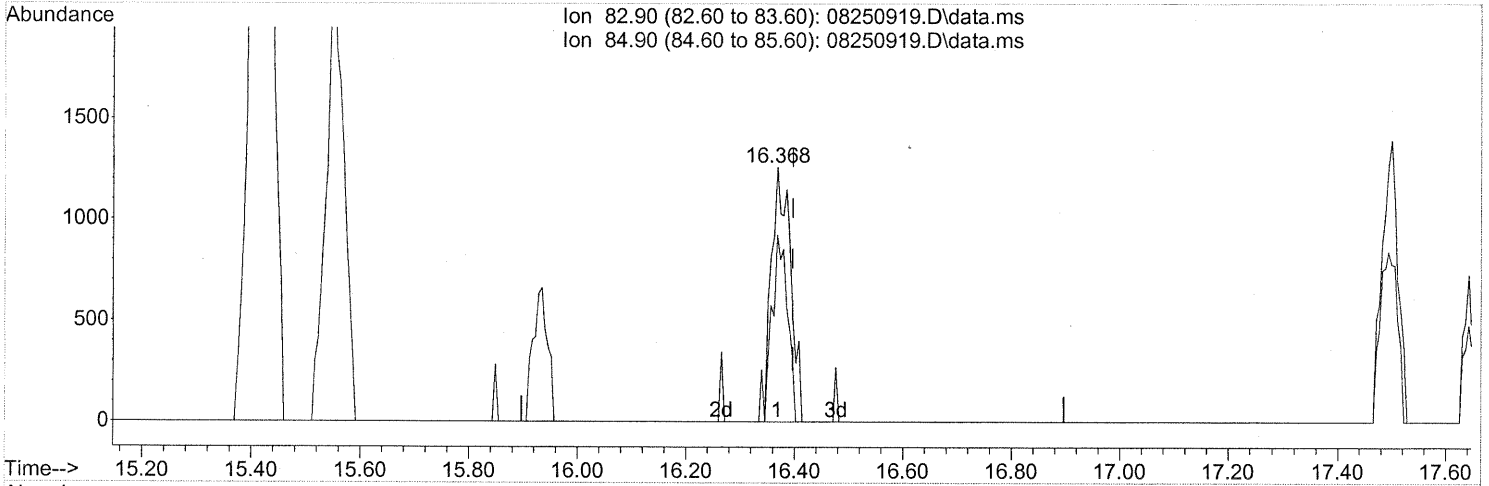
before subtr.

Ion	Exp%	Act%
82.90	100	100
84.90	62.80	58.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.368min (-0.029) 0.21ng

response 3126

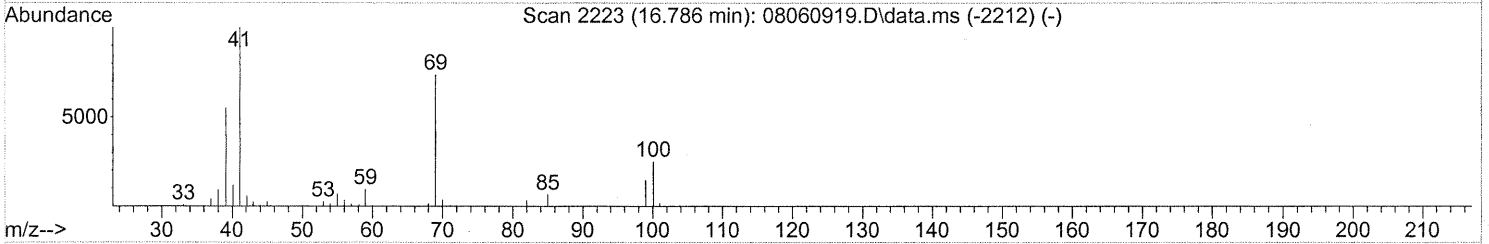
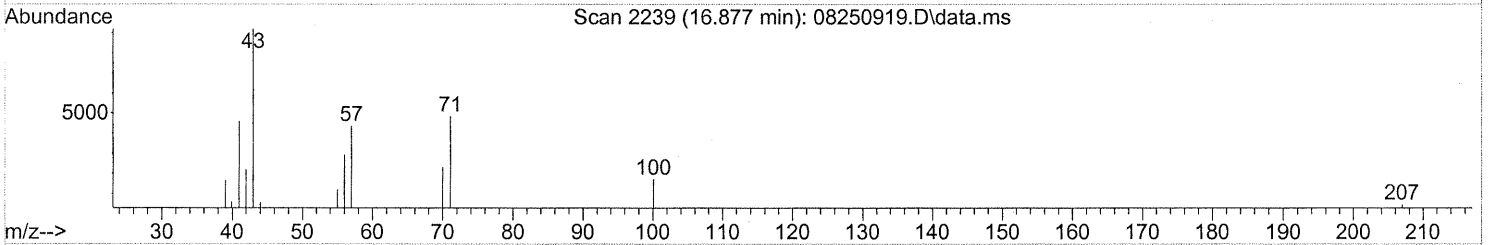
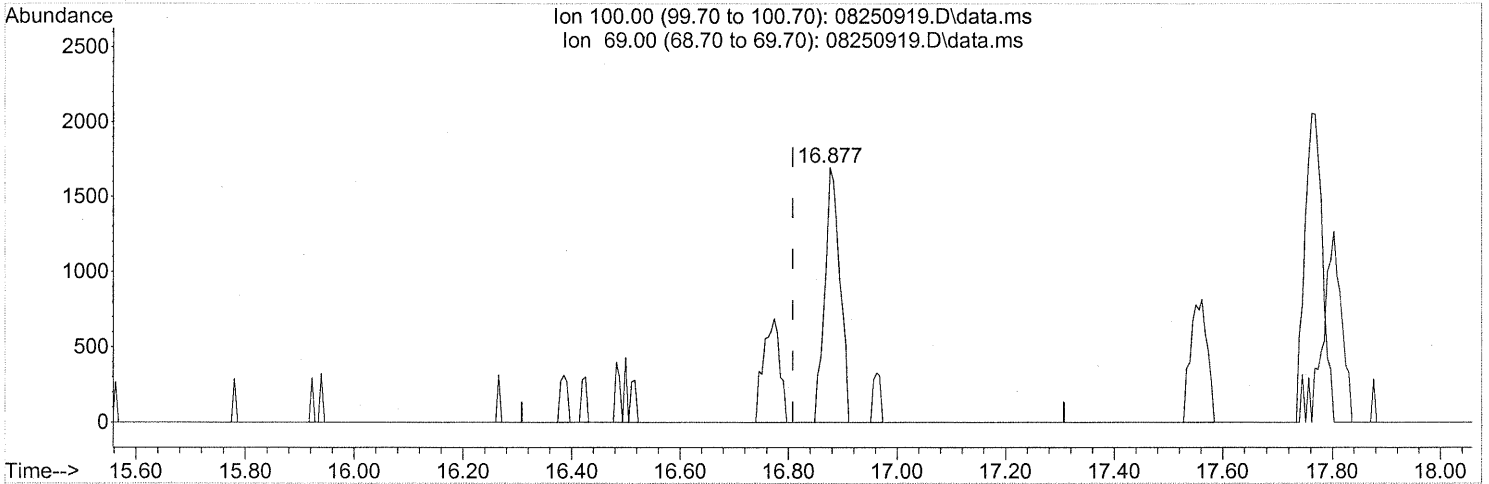
Ion	Exp%	Act%
82.90	100	100
84.90	62.80	58.19
0.00	0.00	0.00
0.00	0.00	0.00

After subtr.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(50) Methyl Methacrylate (T)

16.877min (+0.068) 0.77ng

response 3256

Ion	Exp%	Act%
100.00	100	100
69.00	294.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

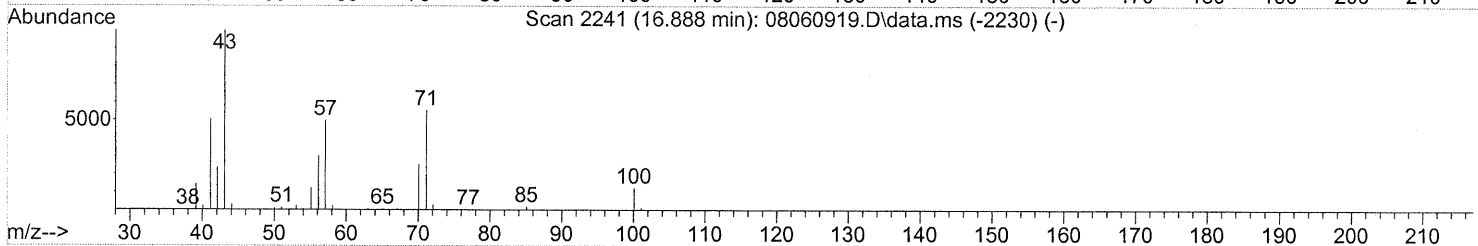
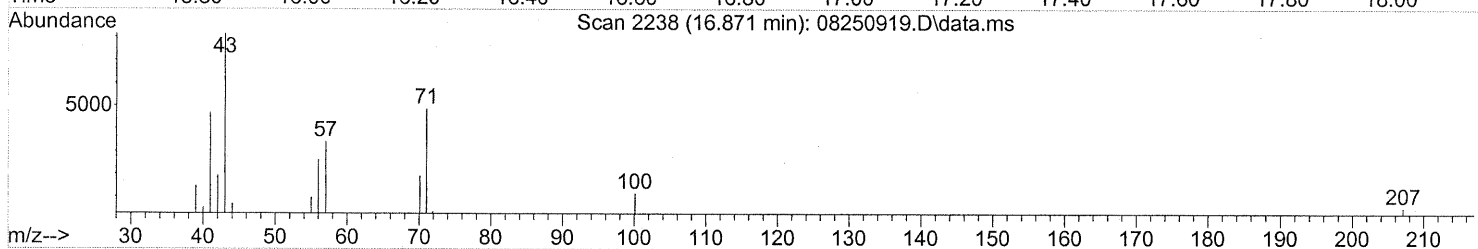
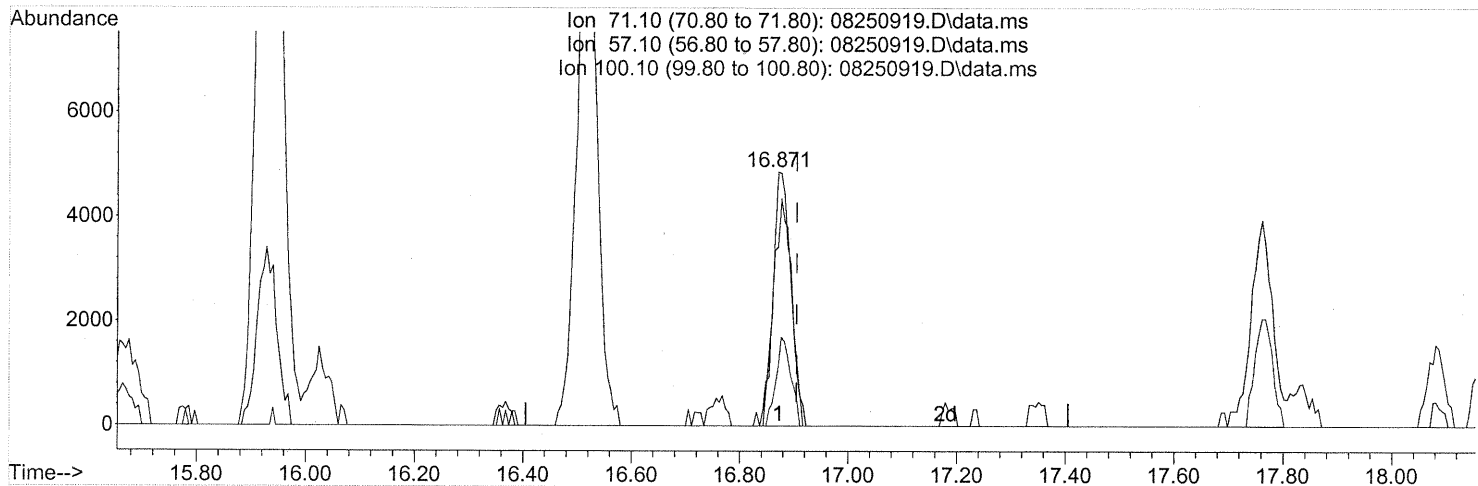
FP
 178/31/09

[Signature] 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

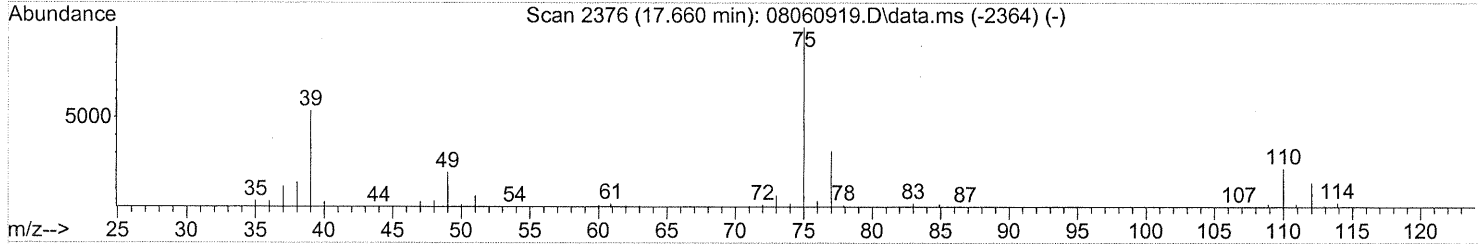
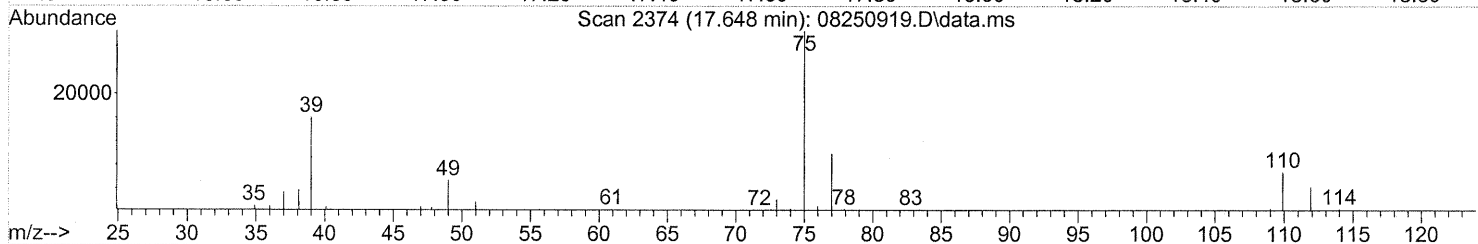
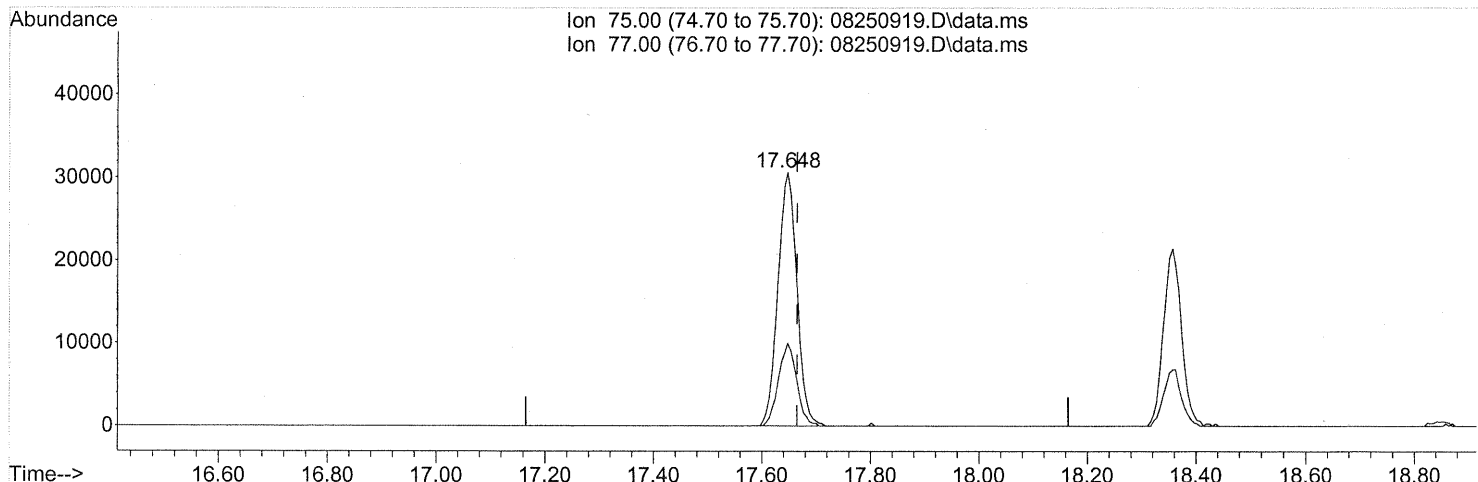
(51) n-Heptane (T)
 16.871min (-0.034) 0.90ng
 response 11094

Ion	Exp%	Act%
71.10	100	100
57.10	91.90	92.64
100.10	26.40	29.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(52) cis-1,3-Dichloropropene (T)

17.648min (-0.017) 3.85ng

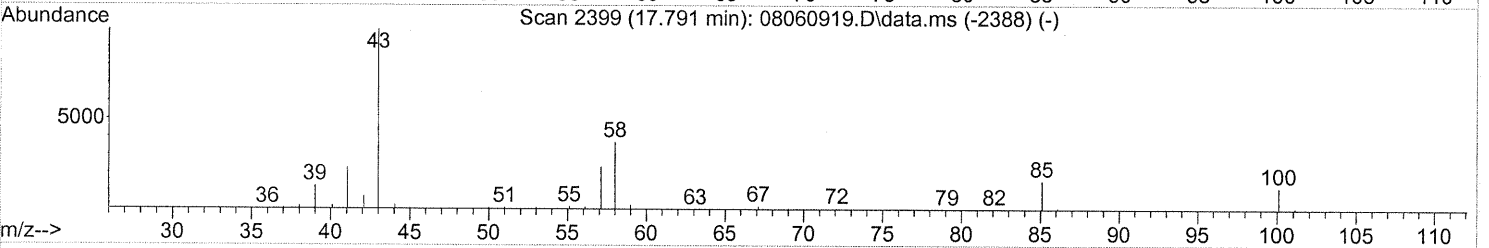
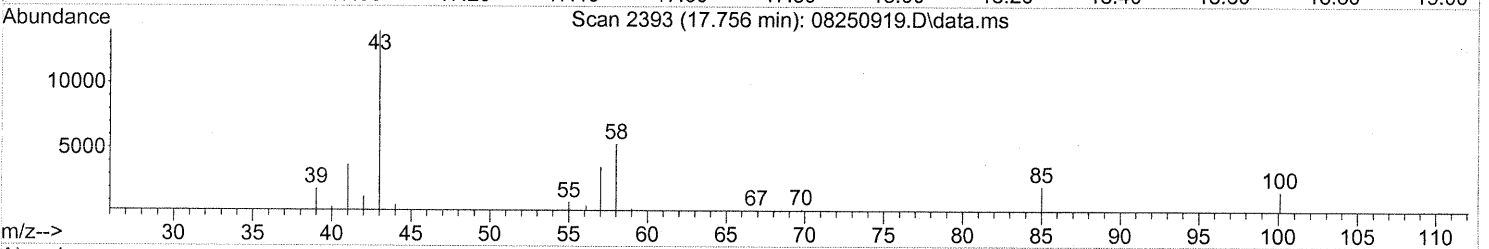
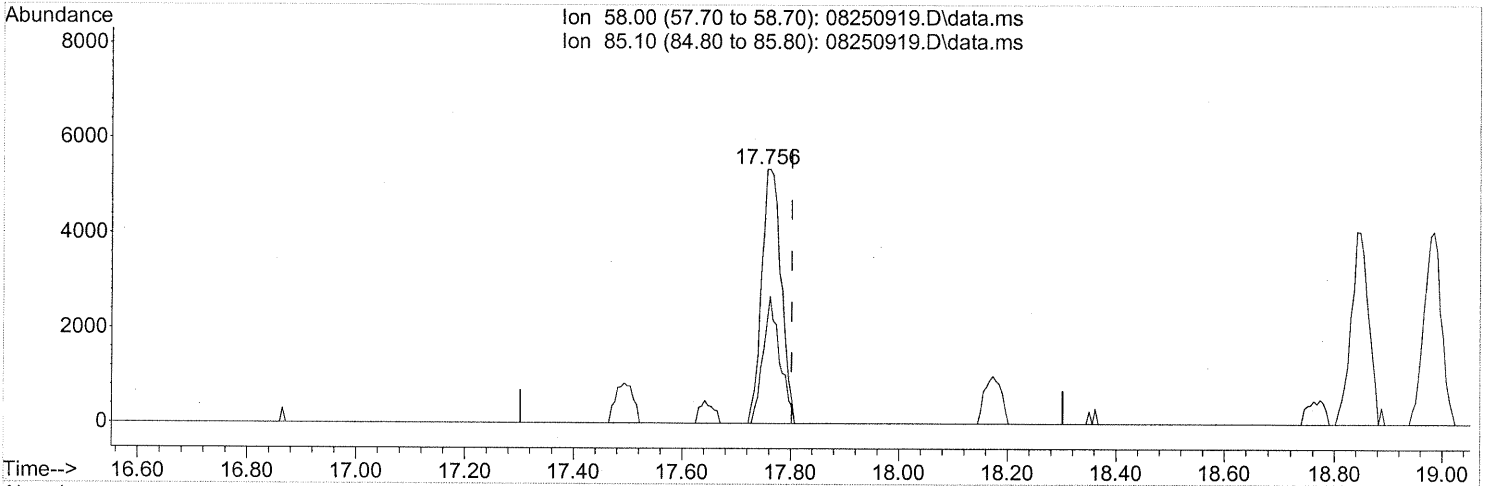
response 73847

Ion	Exp%	Act%
75.00	100	100
77.00	31.00	31.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

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

17.756min (-0.046) 1.21ng

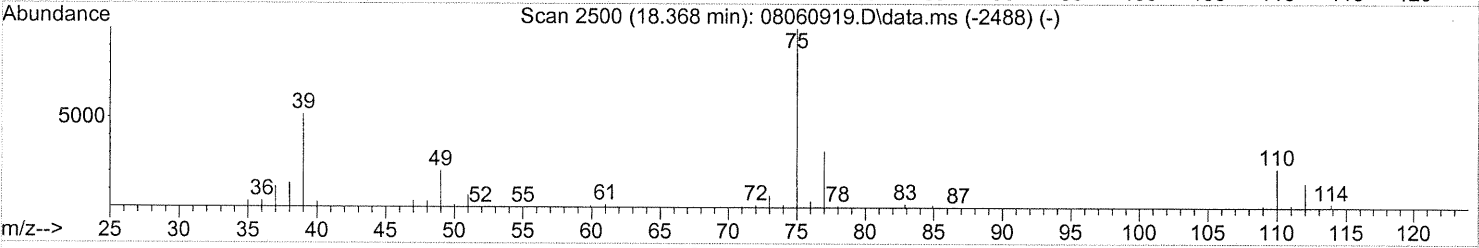
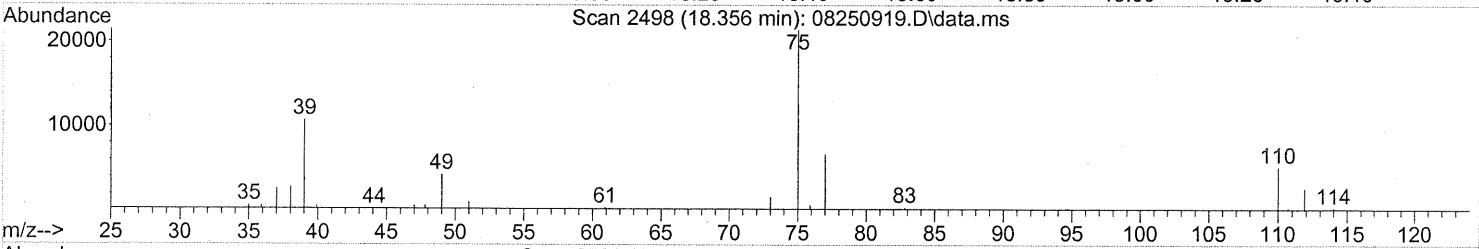
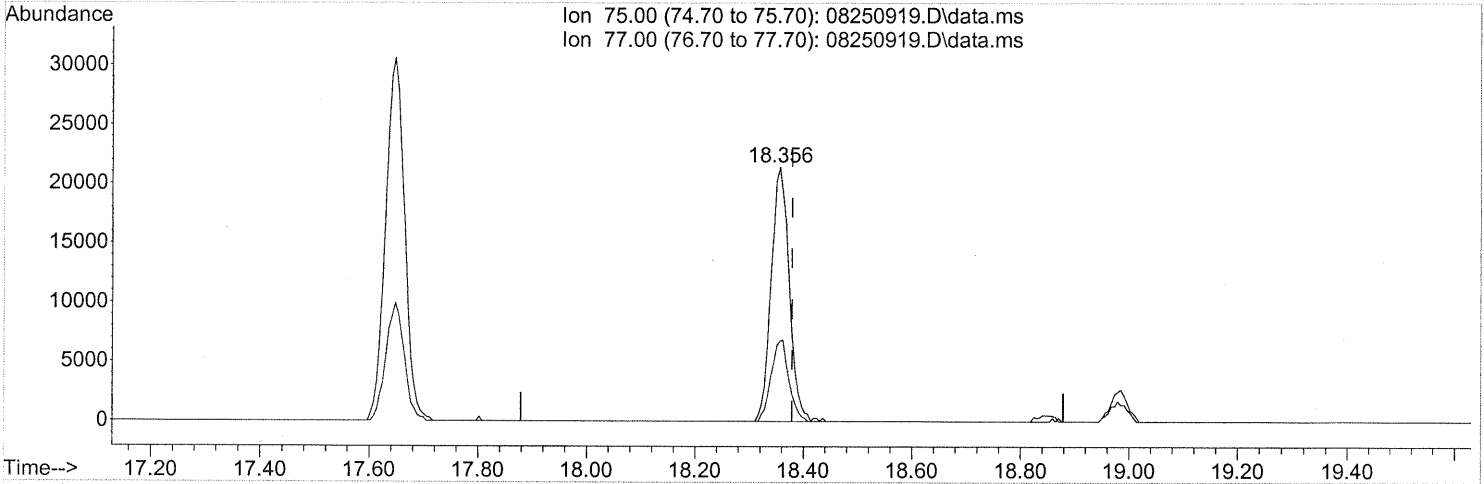
response 13435

Ion	Exp%	Act%
58.00	100	100
85.10	42.60	43.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(54) trans-1,3-Dichloropropene (T)

18.356min (-0.023) 2.72ng

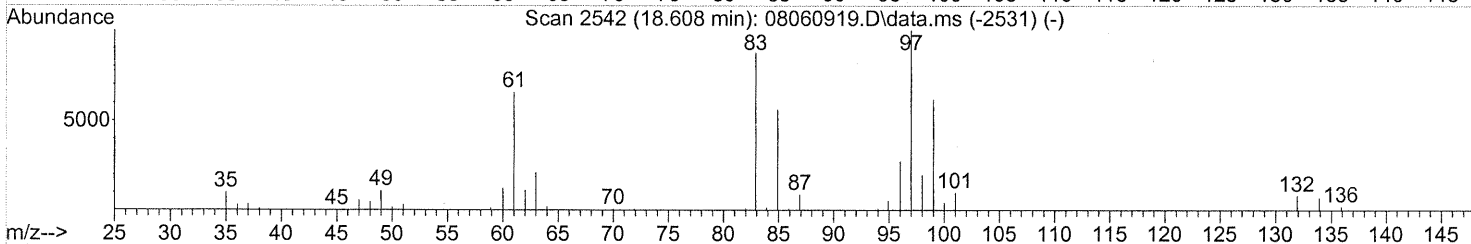
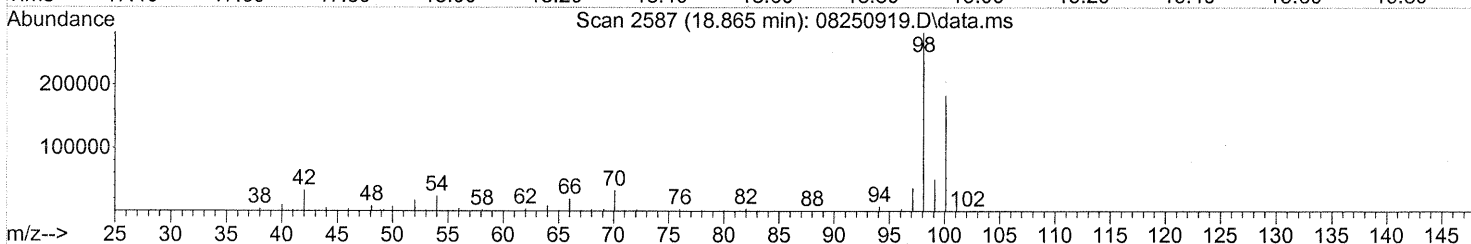
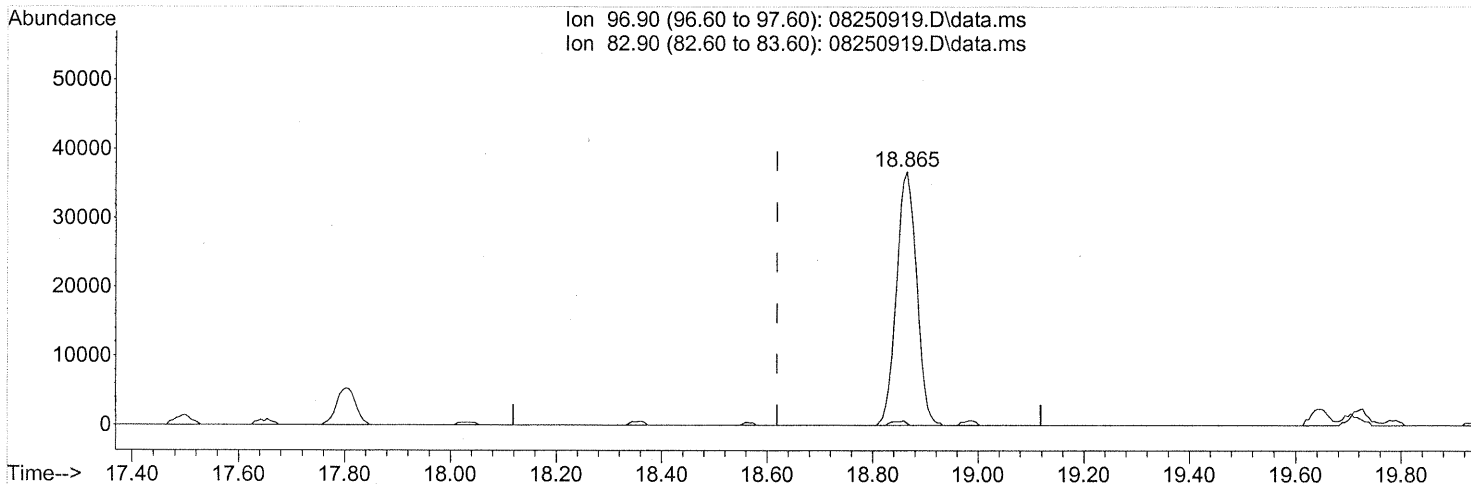
response 49659

Ion	Exp%	Act%
75.00	100	100
77.00	30.80	31.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

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

18.865min (+0.246) 9.62ng

response 97361

Ion	Exp%	Act%
96.90	100	100
82.90	90.30	1.08#
0.00	0.00	0.00
0.00	0.00	0.00

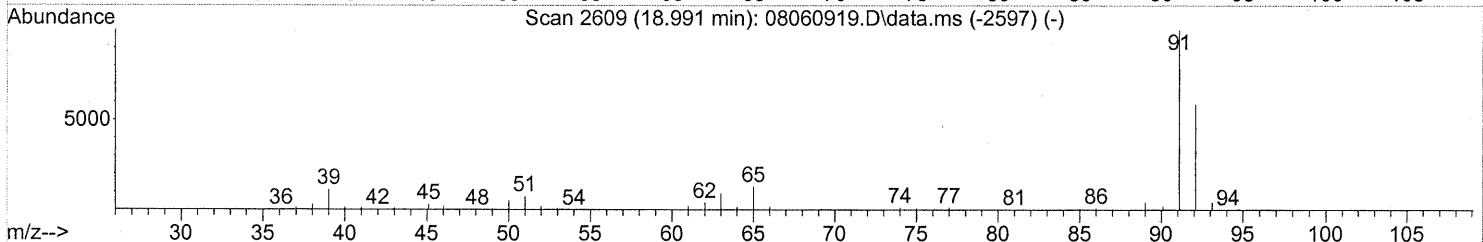
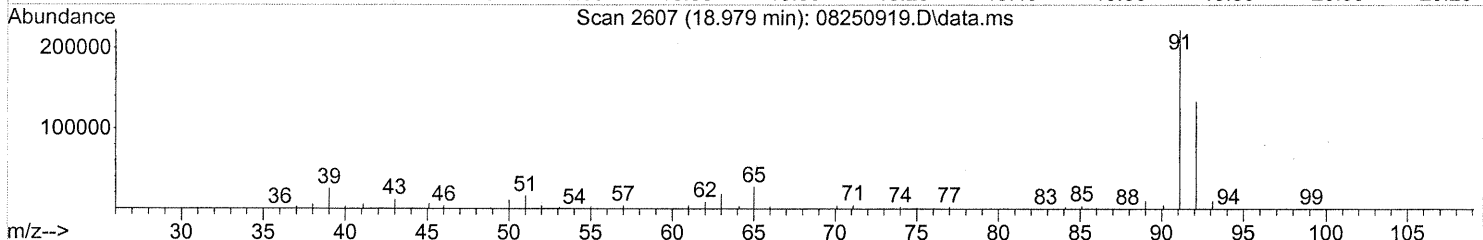
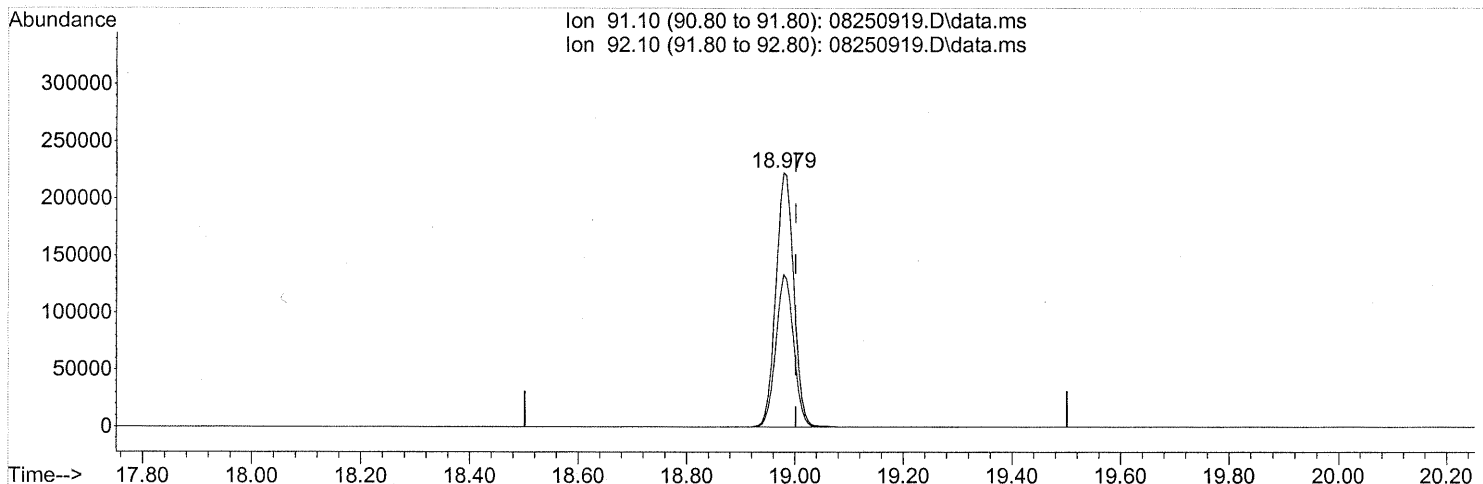
RP
8/31/09

Handwritten signature 8/26/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(58) Toluene (T)

18.979min (-0.023) 11.93ng

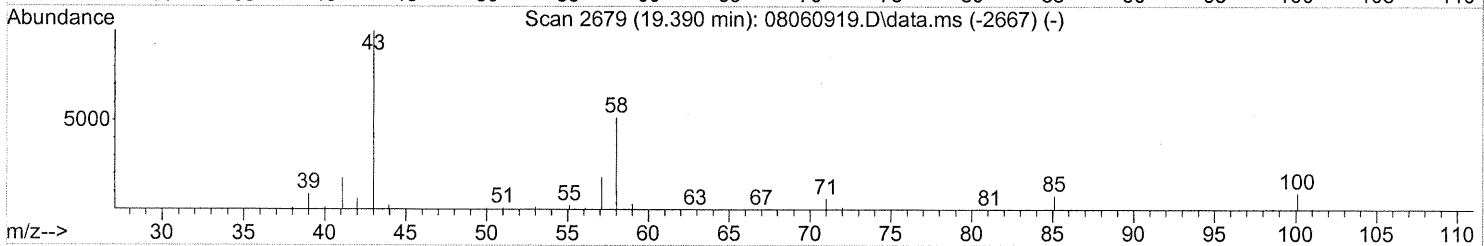
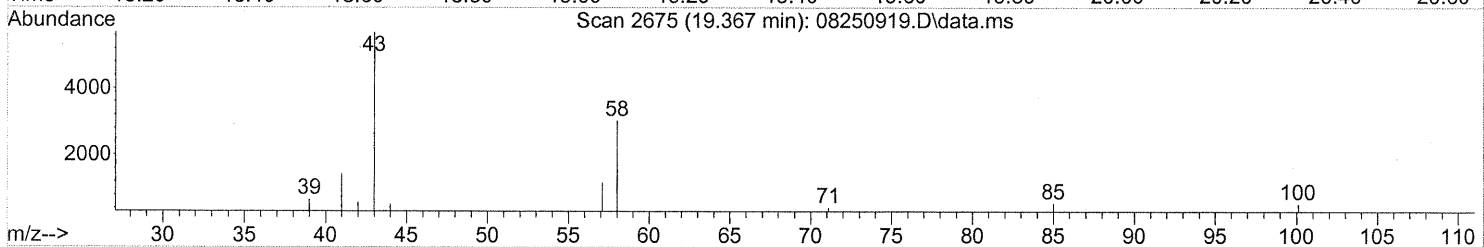
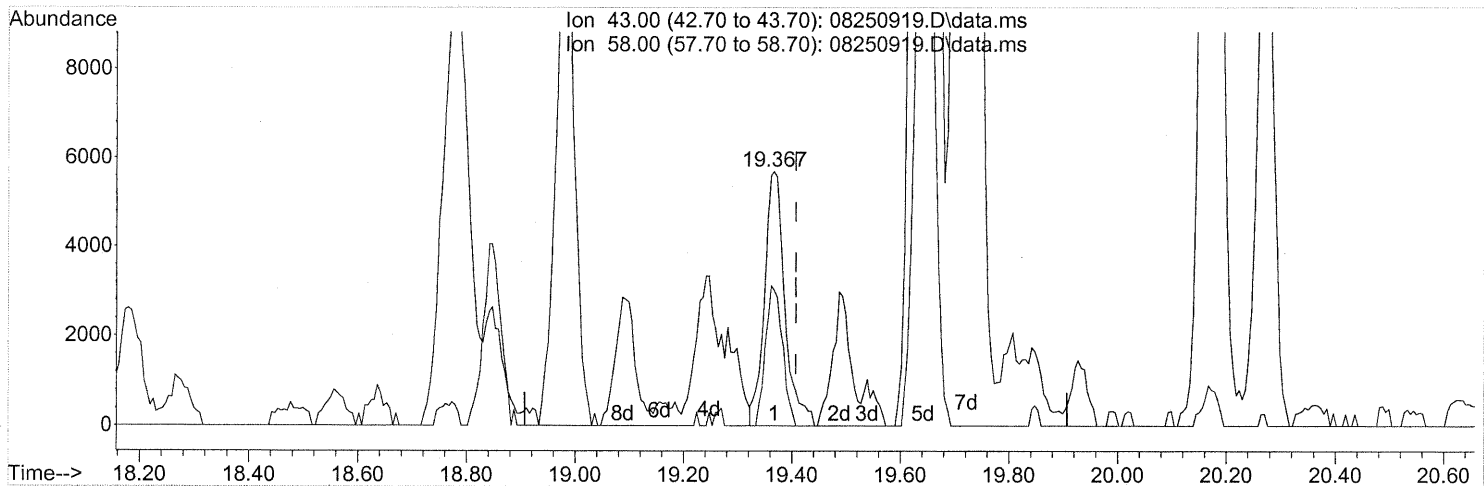
response 512040

Ion	Exp%	Act%
91.10	100	100
92.10	58.60	59.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

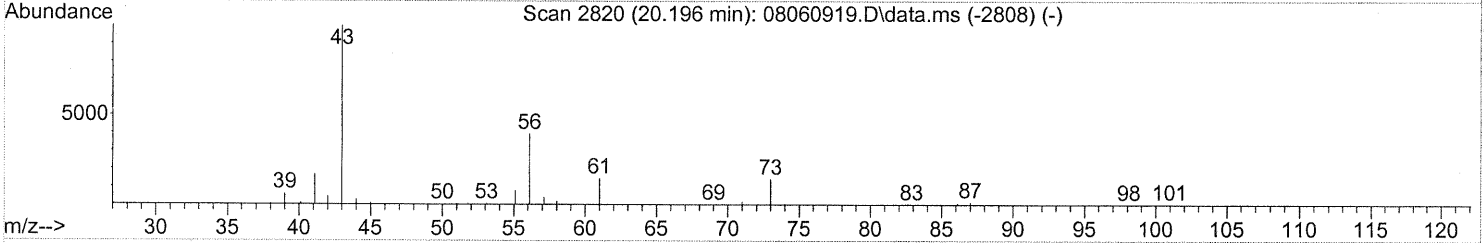
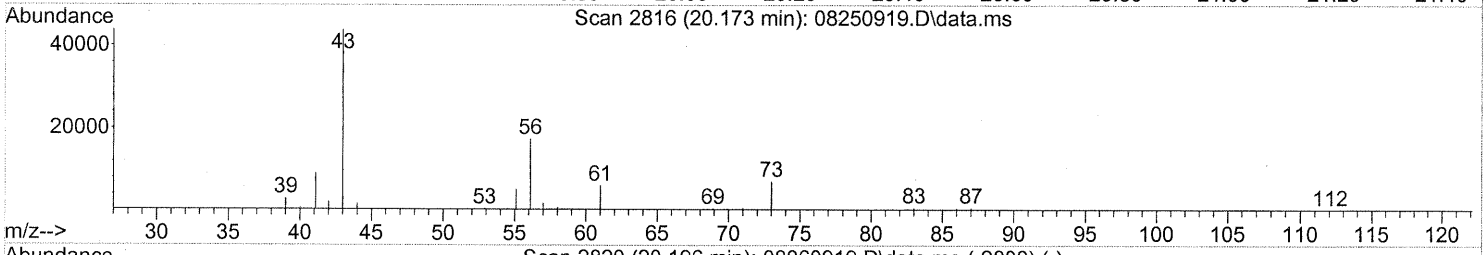
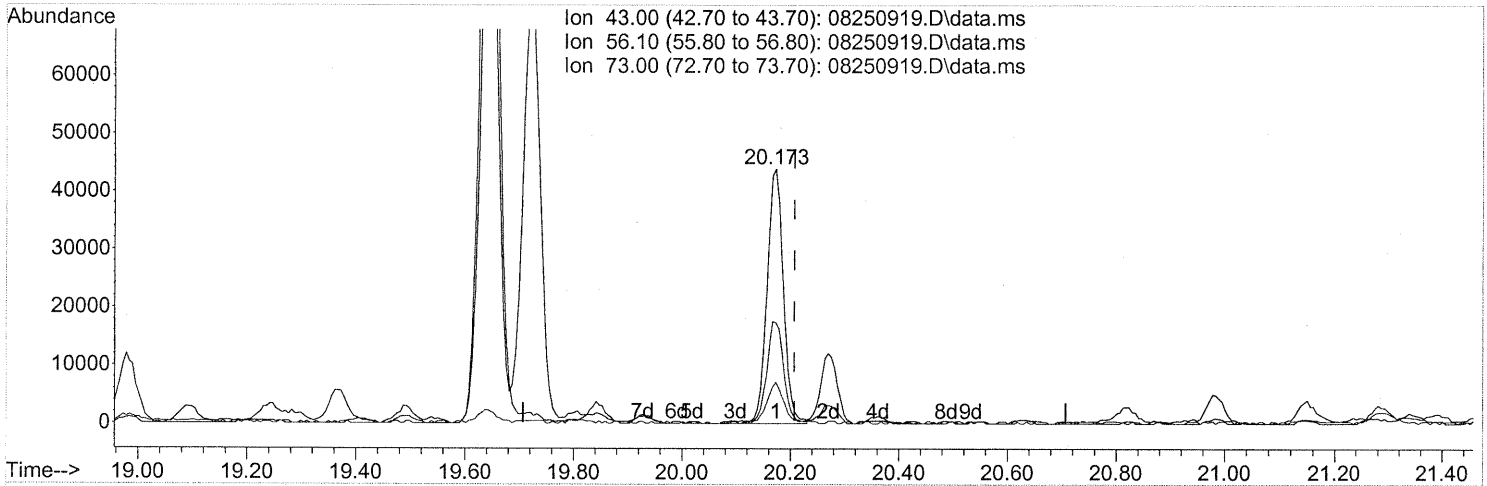
(59) 2-Hexanone (T)
 19.367min (-0.040) 0.52ng
 response 14910

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	45.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

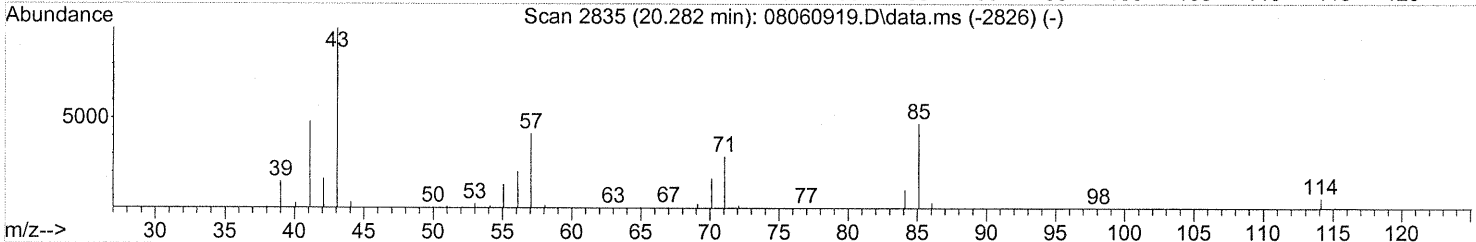
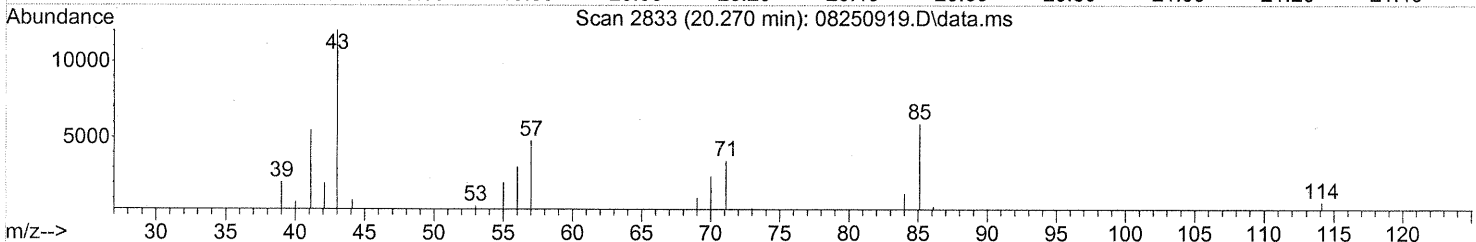
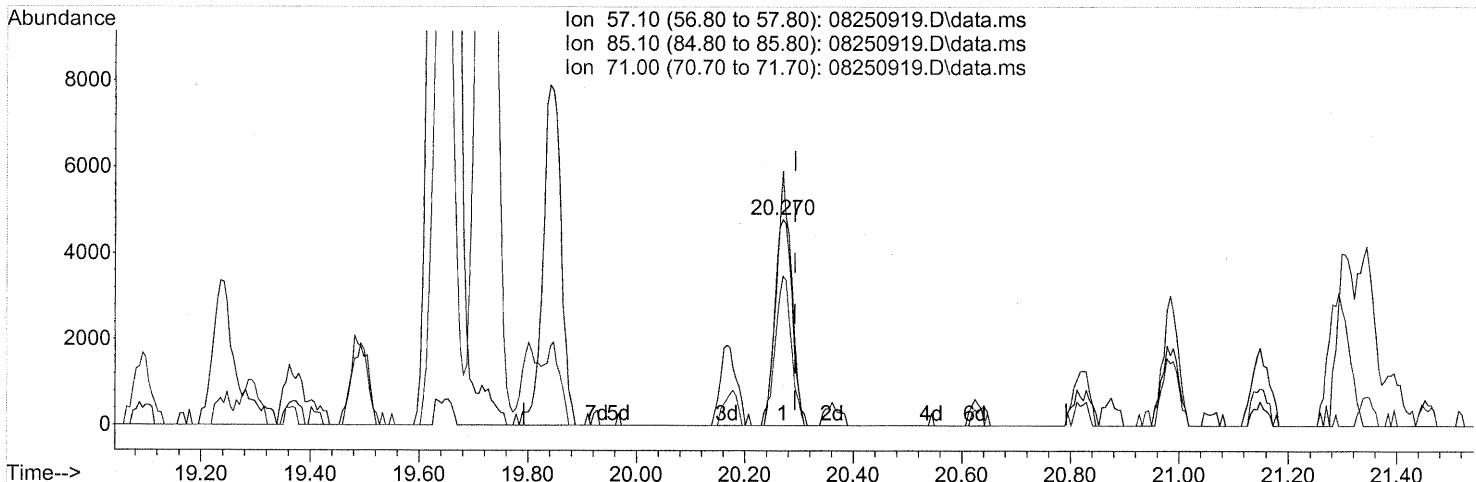
(62) n-Butyl Acetate (T)
 20.173min (-0.034) 2.73ng
 response 91800

Ion	Exp%	Act%
43.00	100	100
56.10	38.50	41.10
73.00	14.80	17.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

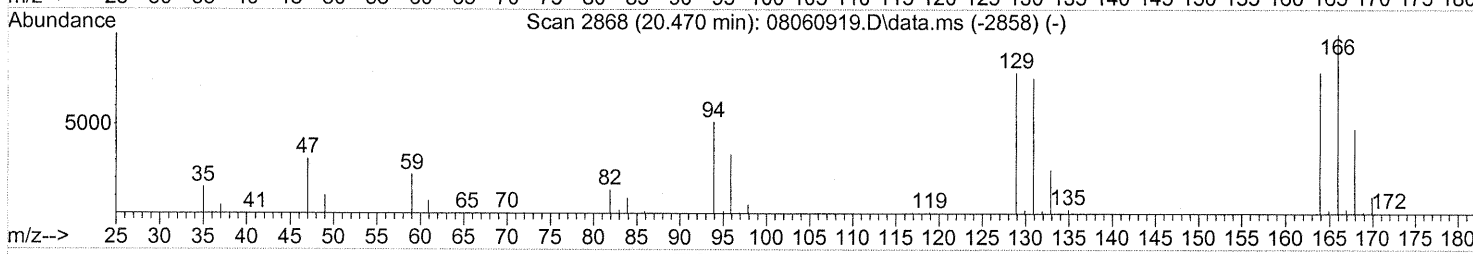
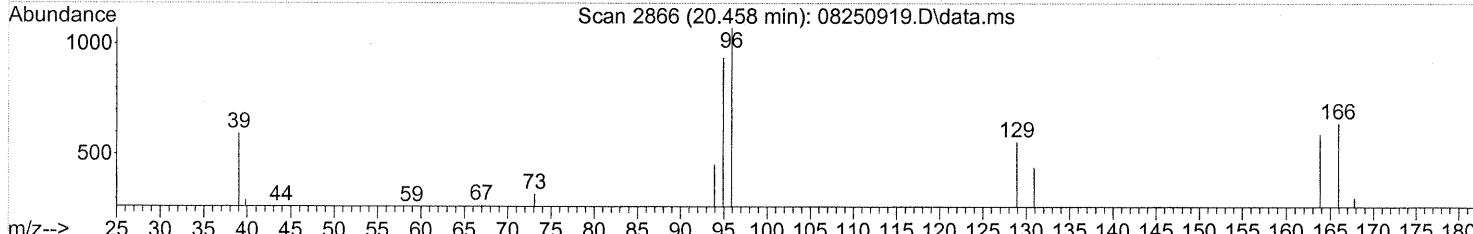
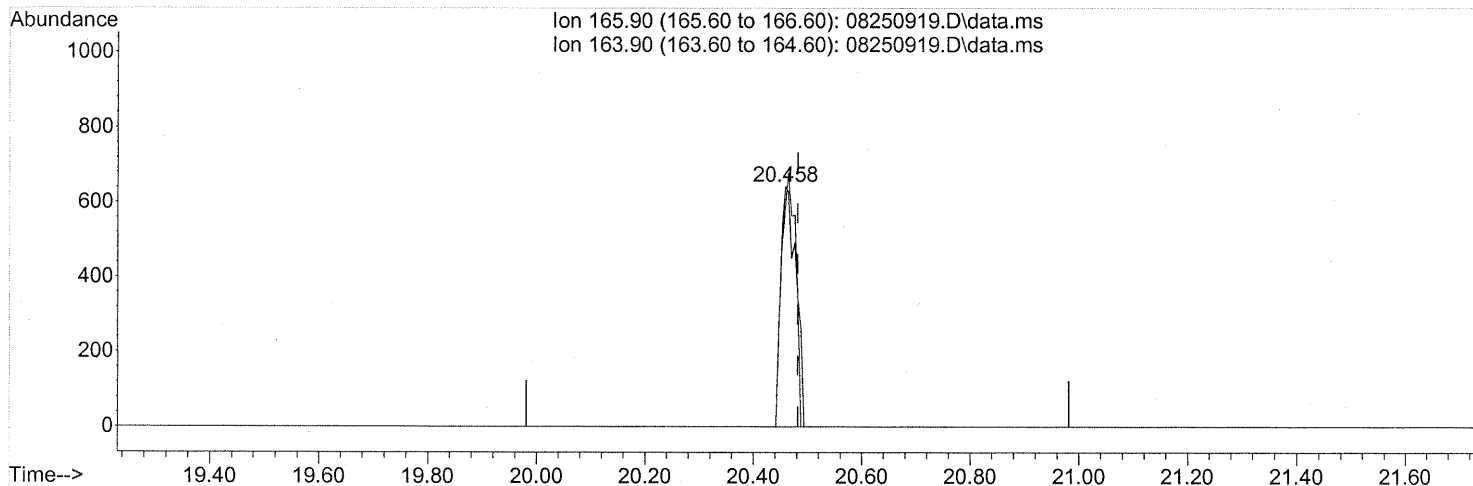
(63) n-Octane (T)
 20.270min (-0.023) 1.02ng
 response 10602

Ion	Exp%	Act%
57.10	100	100
85.10	107.00	109.58
71.00	68.10	67.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250919.D
Acq On : 25 Aug 2009 23:41
Operator : WA/CC
Sample : P0902876-002 dup (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250919.D\data.ms

(64) Tetrachloroethene (T)

20.458min (-0.023) 0.12ng

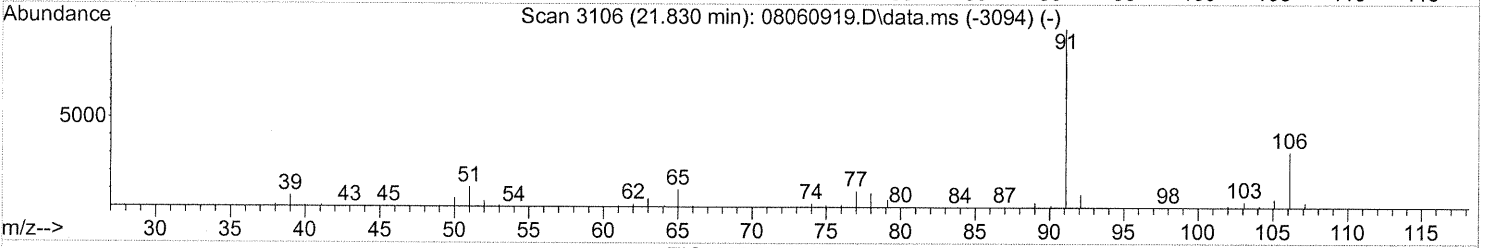
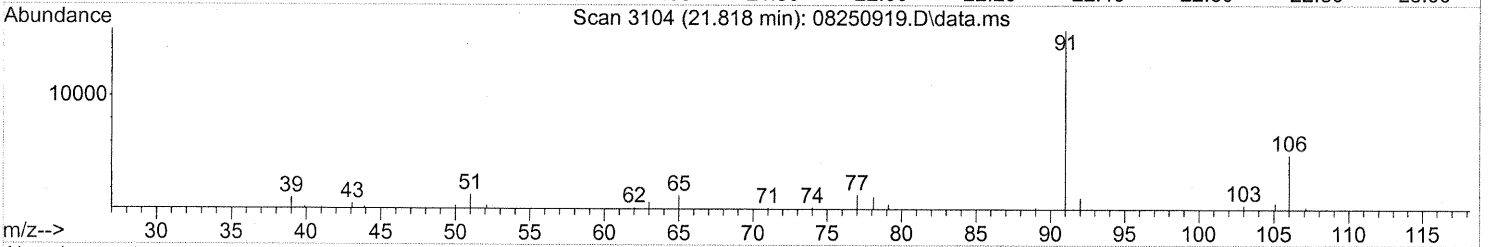
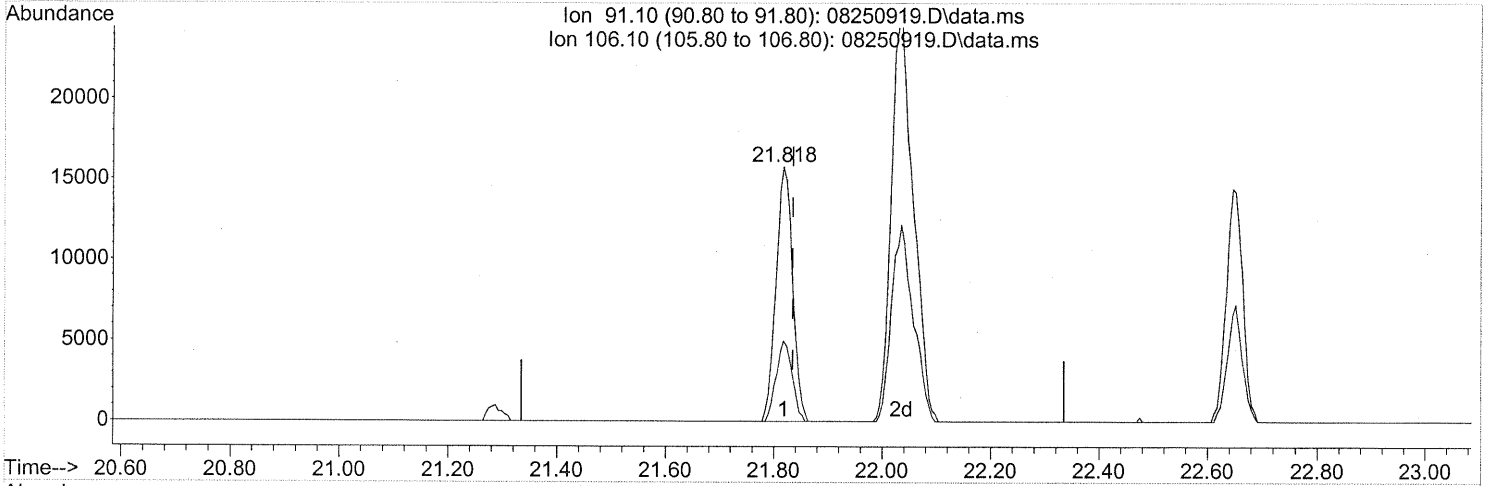
response 1241

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	97.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

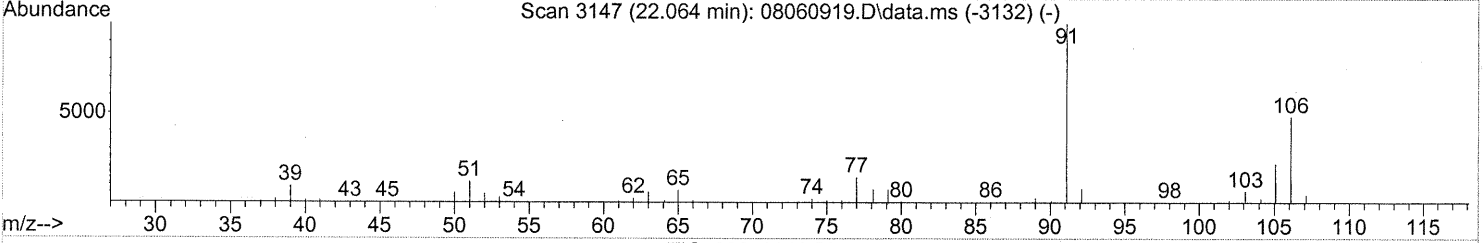
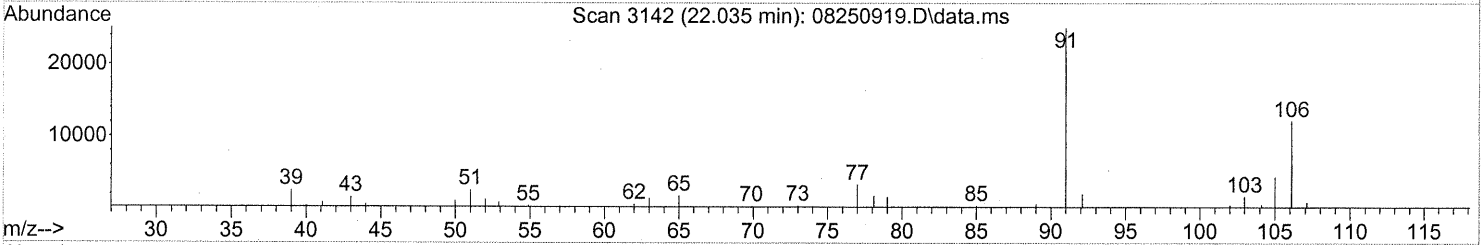
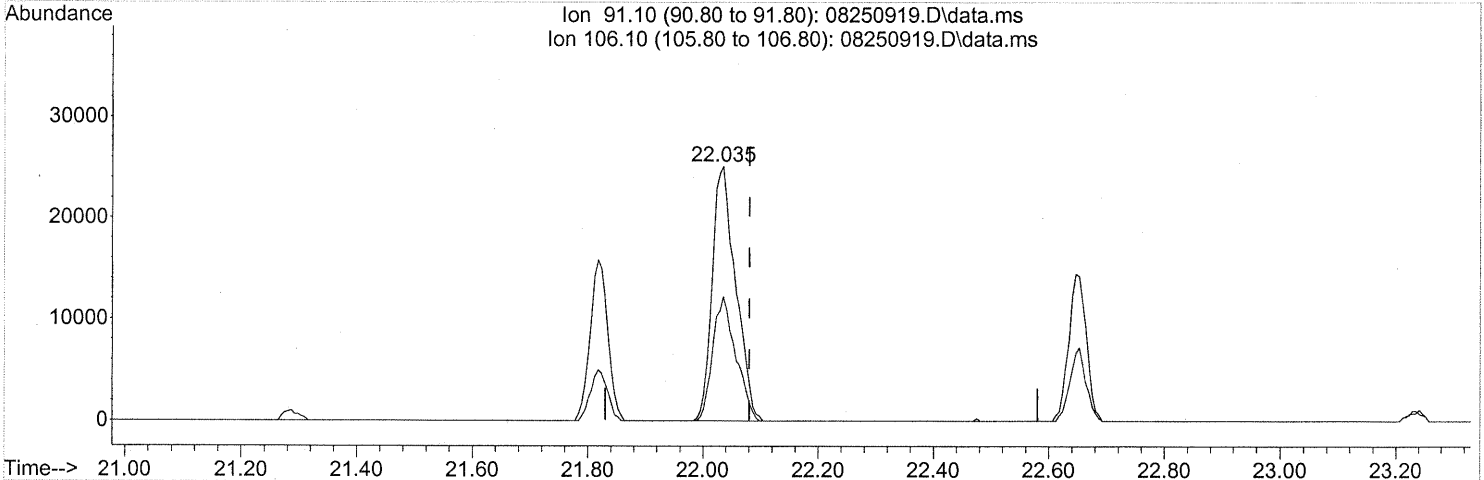
(66) Ethylbenzene (T)
 21.818min (-0.017) 0.68ng
 response 33535

Ion	Exp%	Act%
91.10	100	100
106.10	30.10	30.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

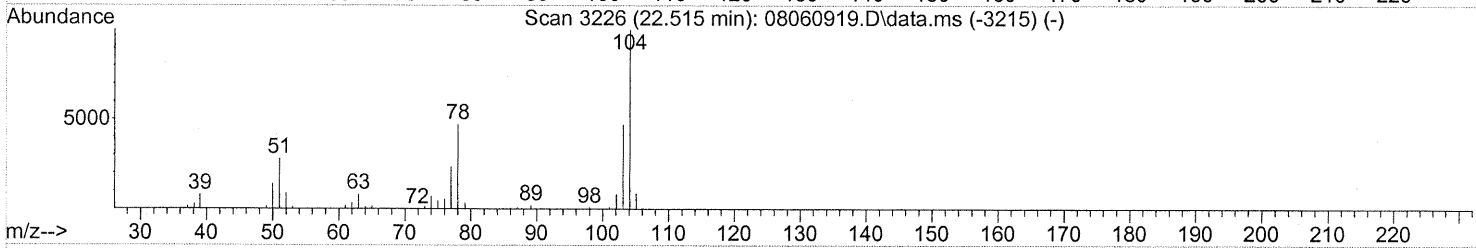
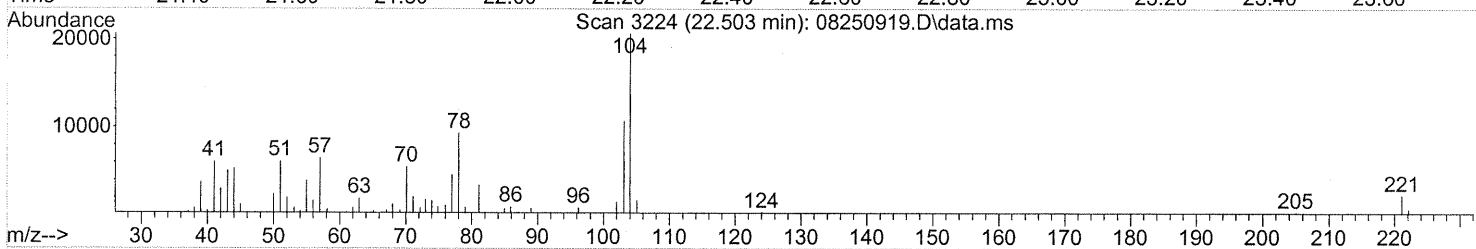
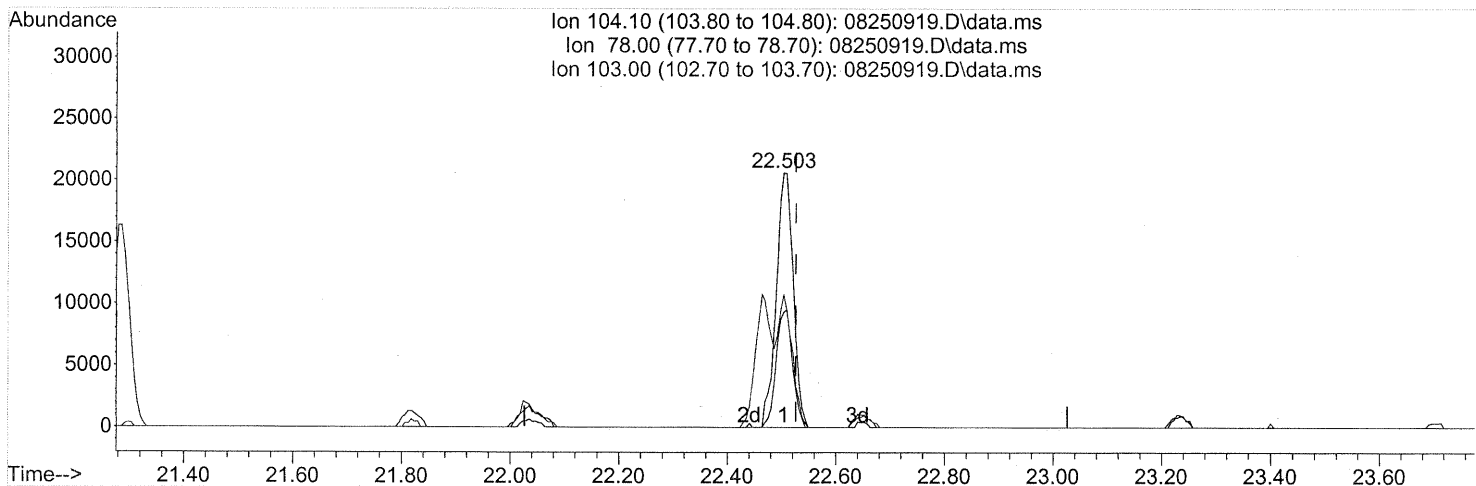
(67) m- & p-Xylenes (T)
 22.035min (-0.046) 1.79ng
 response 70949

Ion	Exp%	Act%
91.10	100	100
106.10	46.90	47.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

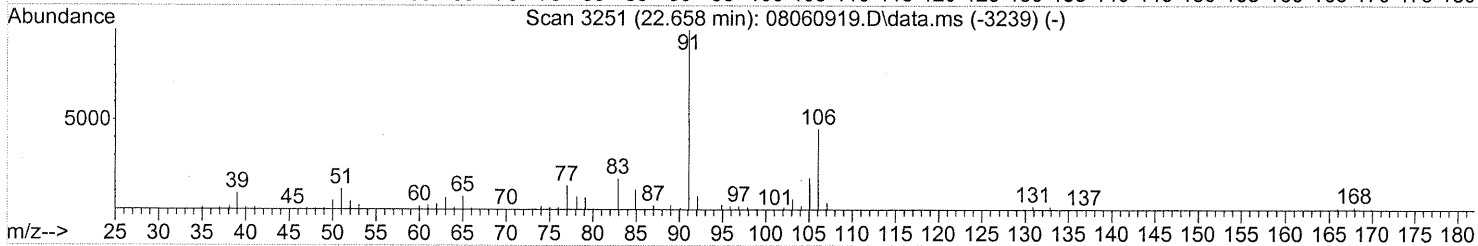
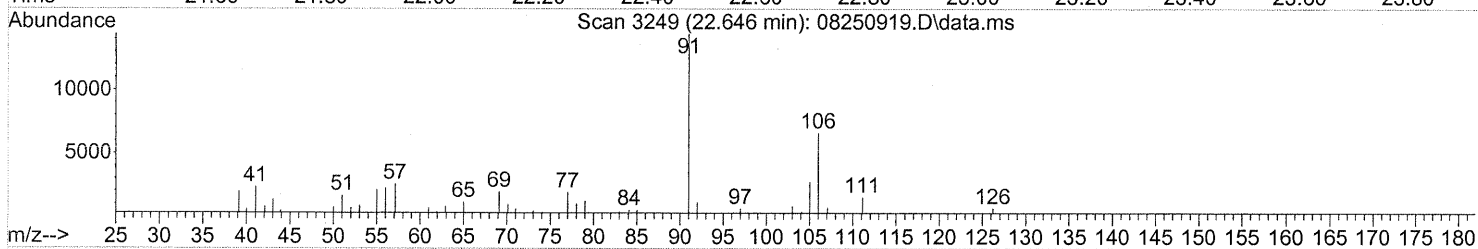
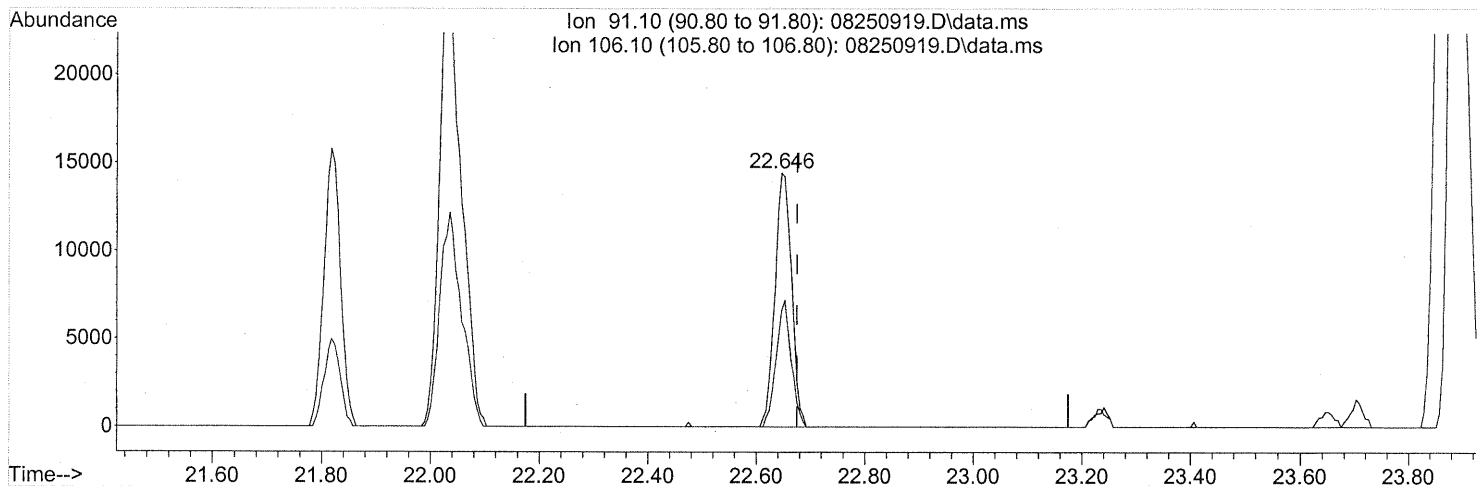
(69) Styrene (T)
 22.503min (-0.023) 1.56ng
 response 44698

Ion	Exp%	Act%
104.10	100	100
78.00	47.10	44.04
103.00	46.20	43.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

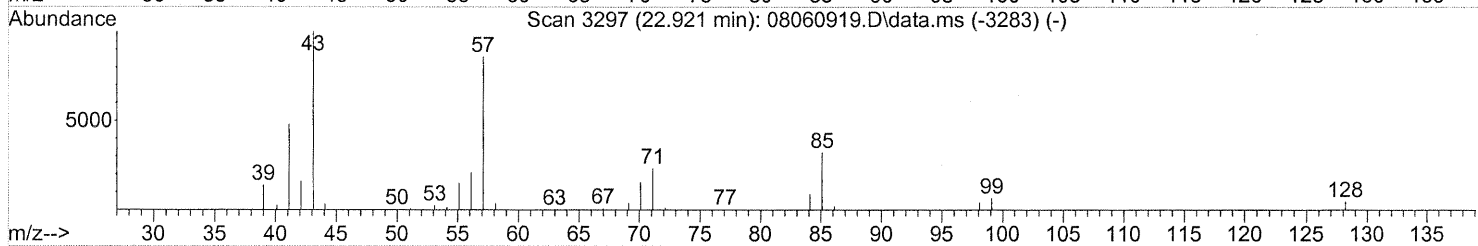
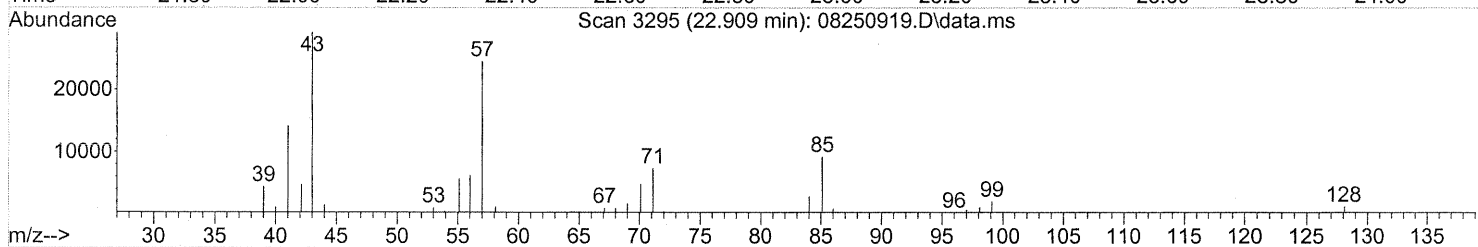
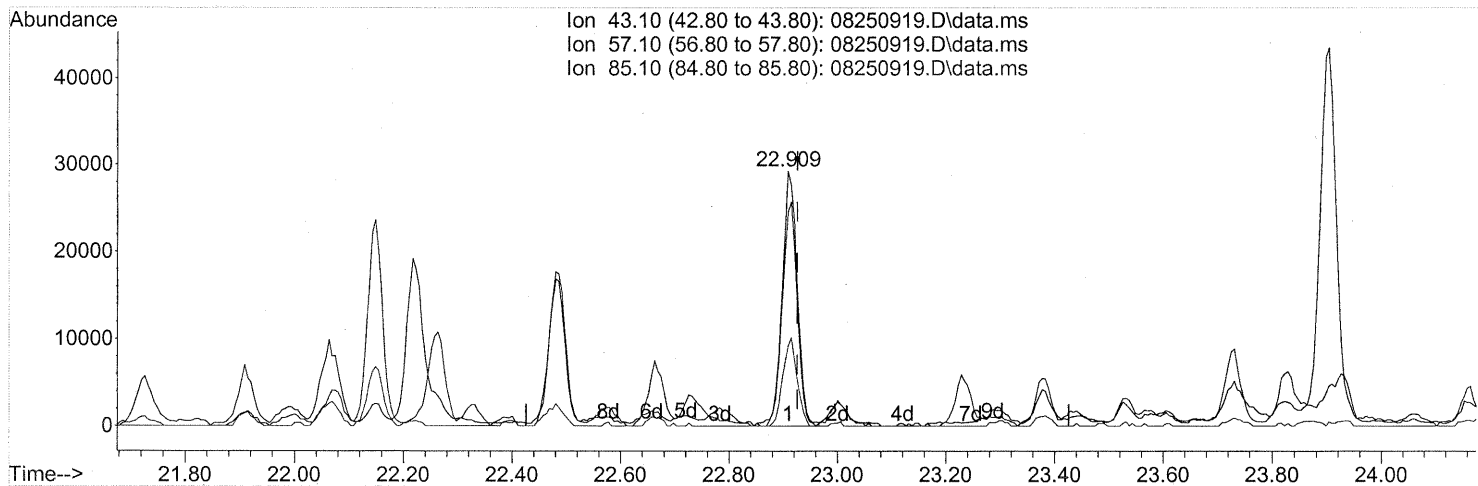
(70) o-Xylene (T)
 22.646min (-0.029) 0.77ng
 response 30587

Ion	Exp%	Act%
91.10	100	100
106.10	44.10	45.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

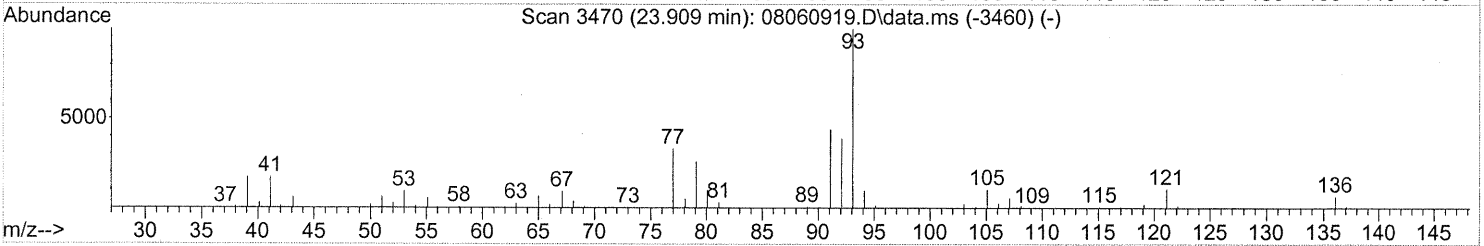
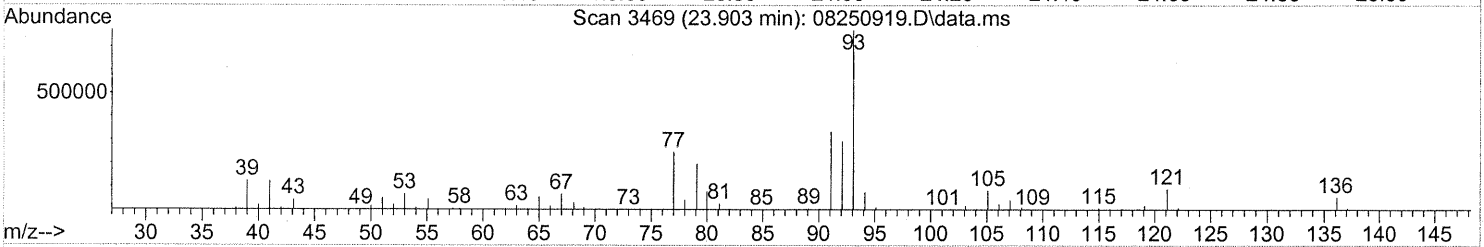
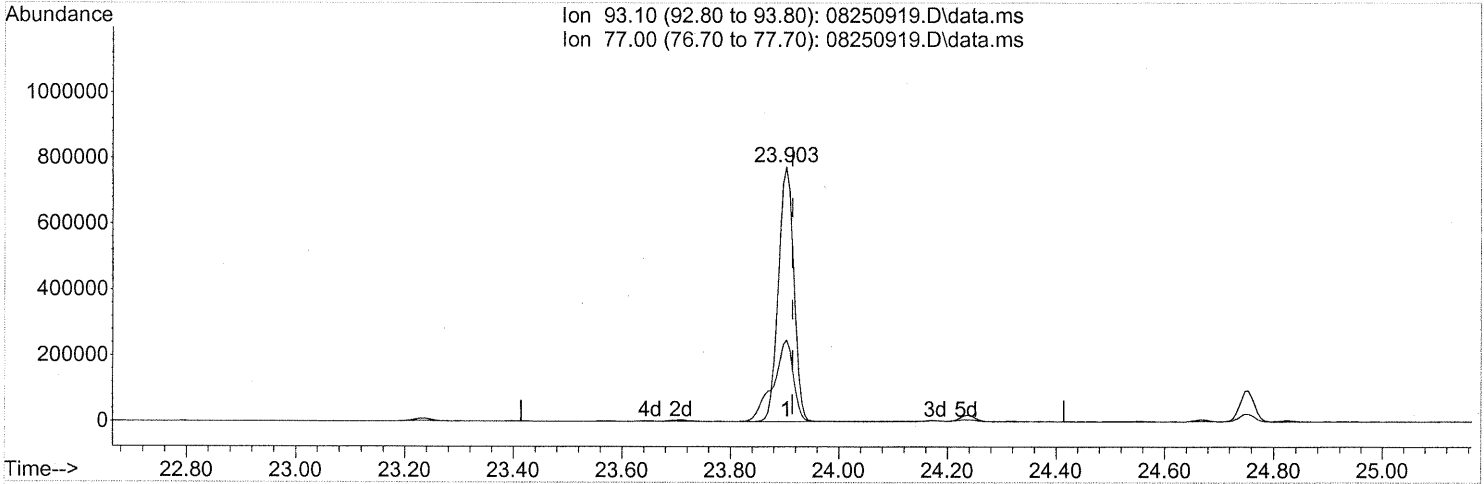
(71) n-Nonane (T)
 22.909min (-0.017) 2.16ng
 response 57050

Ion	Exp%	Act%
43.10	100	100
57.10	84.90	86.19
85.10	30.40	32.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

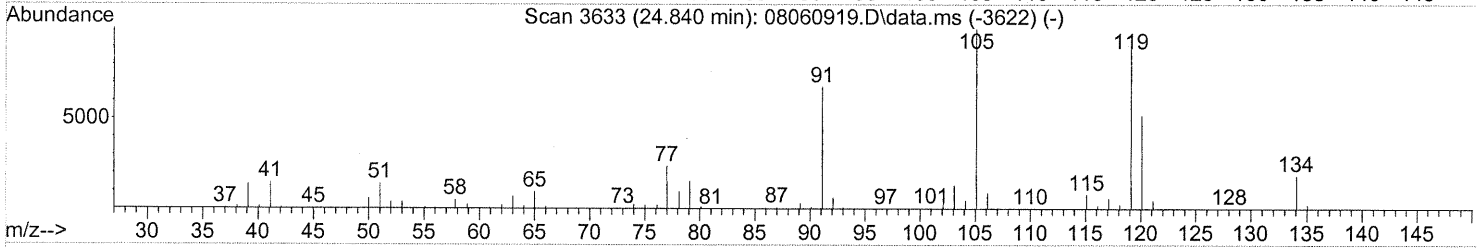
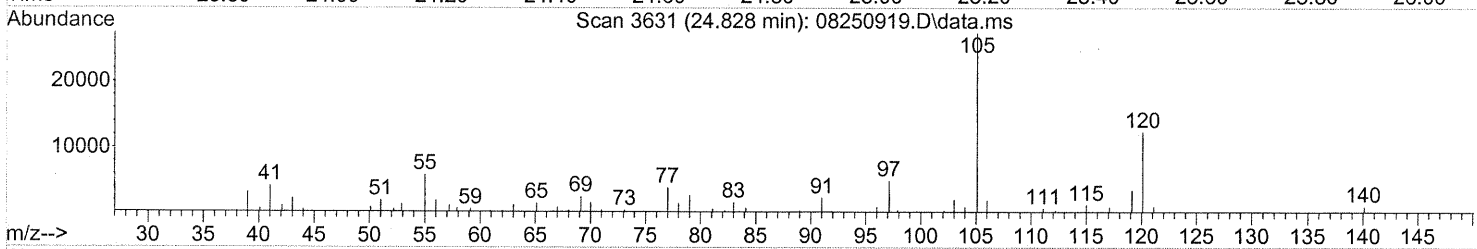
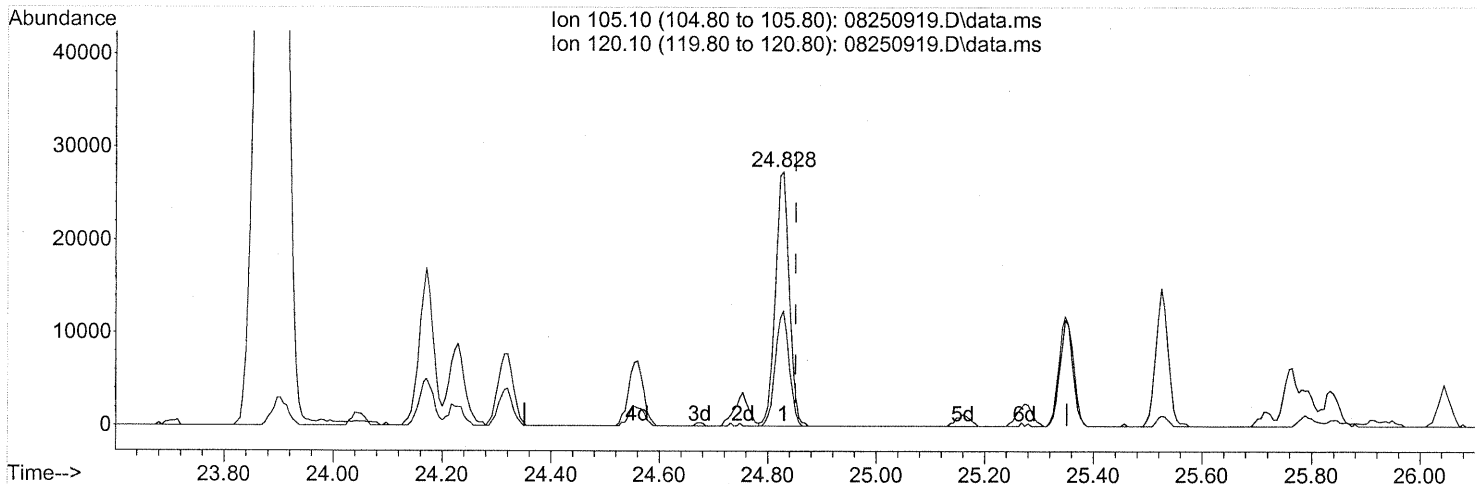
(75) alpha-Pinene (T)
 23.903min (-0.011) 59.04ng
 response 1521602

Ion	Exp%	Act%
93.10	100	100
77.00	32.40	42.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

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

24.828min (-0.023) 1.21ng

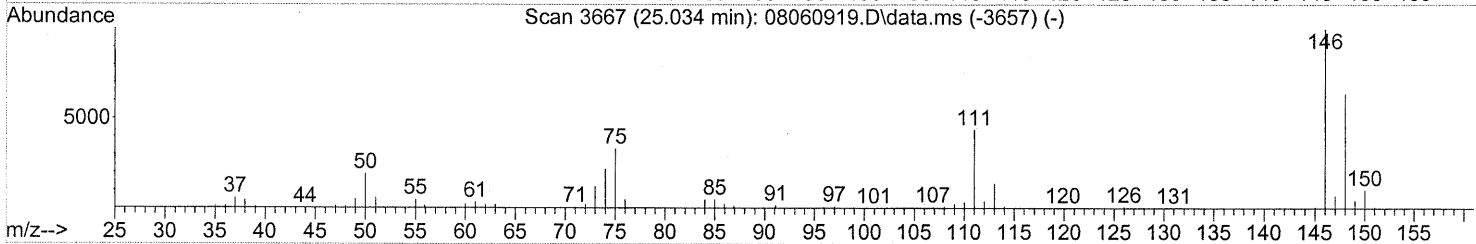
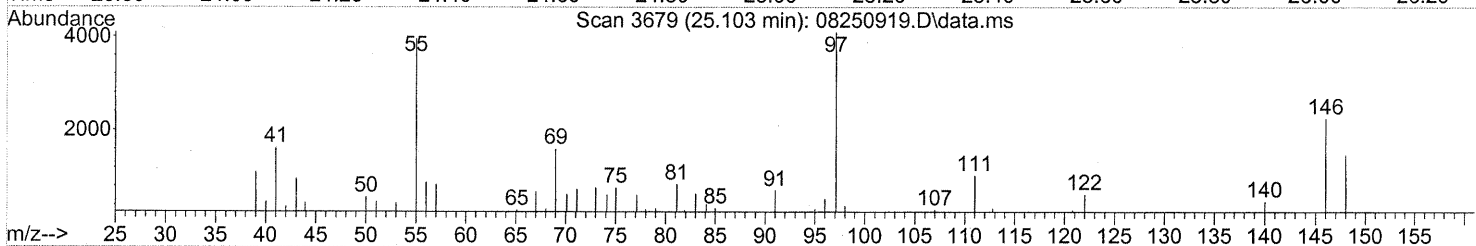
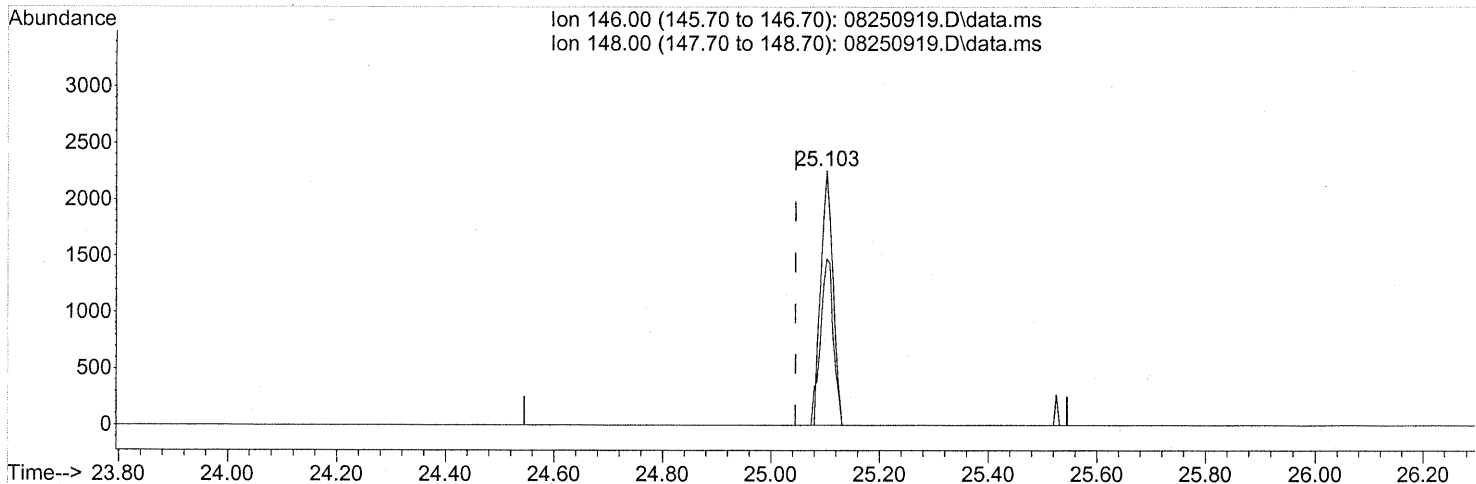
response 48532

Ion	Exp%	Act%
105.10	100	100
120.10	52.60	45.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
Data File : 08250919.D
Acq On : 25 Aug 2009 23:41
Operator : WA/CC
Sample : P0902876-002 dup (1000mL)
Misc : Environmental Health 102350
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 17:14:07 2009
Response via : Initial Calibration



TIC: 08250919.D\data.ms

(85) 1,3-Dichlorobenzene (T)

25.103min (+0.057) 0.17ng

response 3479

Ion	Exp%	Act%
146.00	100	100
148.00	61.60	70.31
0.00	0.00	0.00
0.00	0.00	0.00

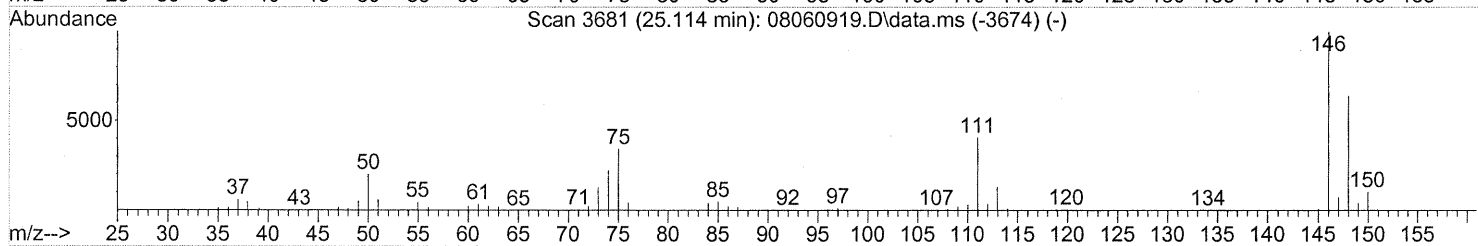
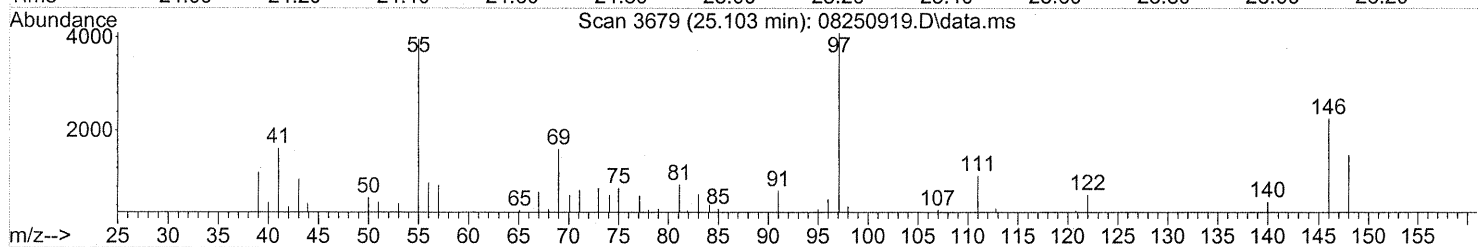
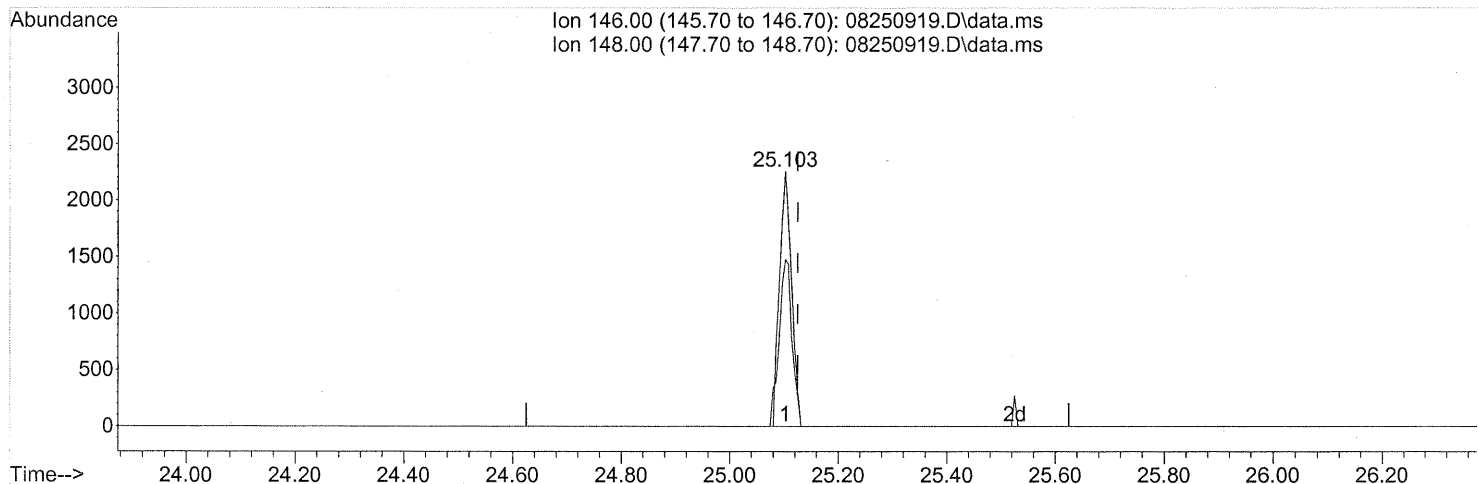
FP
M 8/31/09

— 9/2/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(86) 1,4-Dichlorobenzene (T)

25.103min (-0.023) 0.16ng

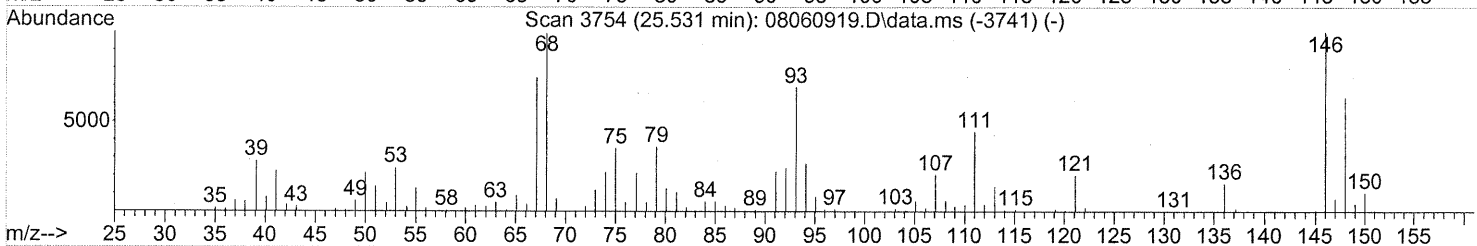
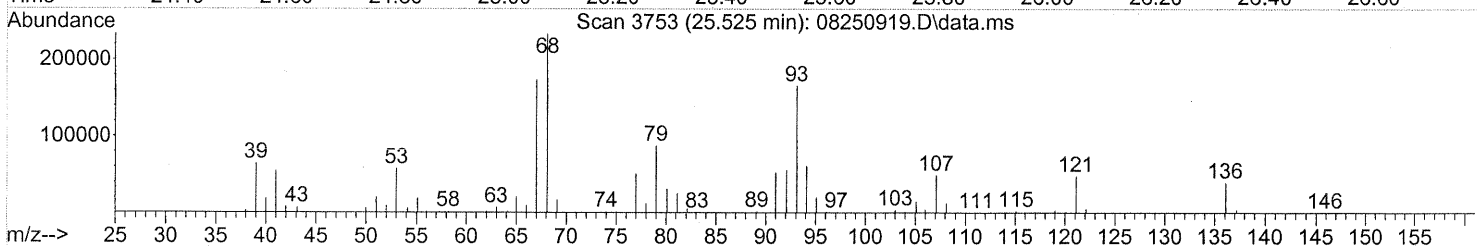
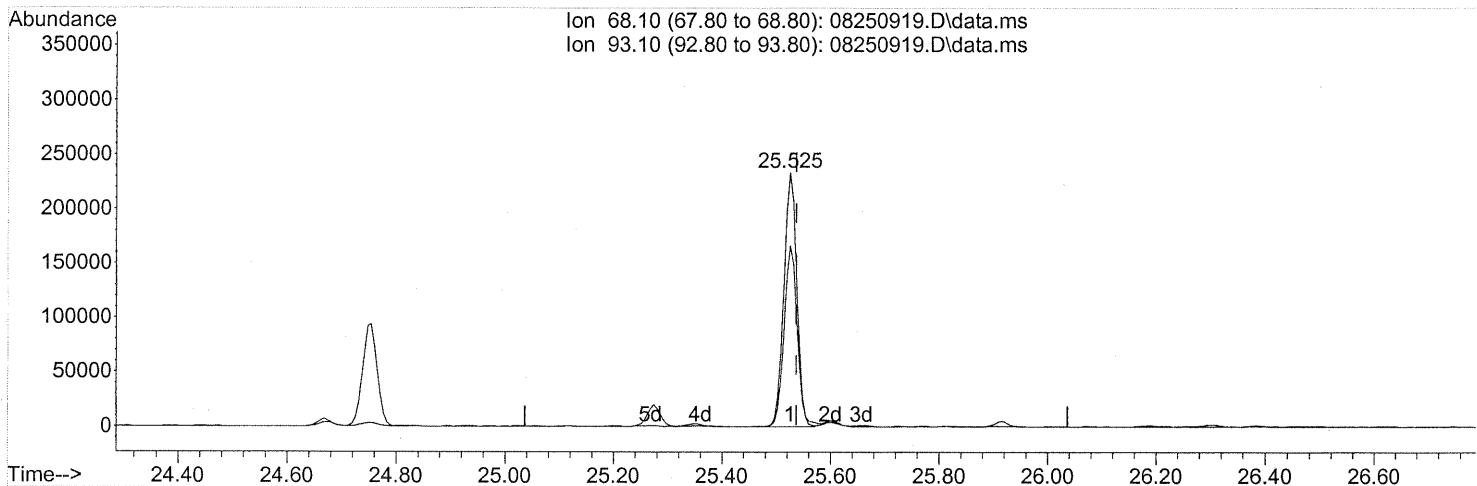
response 3479

Ion	Exp%	Act%
146.00	100	100
148.00	62.20	70.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250919.D
 Acq On : 25 Aug 2009 23:41
 Operator : WA/CC
 Sample : P0902876-002 dup (1000mL)
 Misc : Environmental Health 102350
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 26 06:39:40 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



TIC: 08250919.D\data.ms

(91) d-Limonene (T)
 25.525min (-0.012) 22.60ng
 response 384816

Ion	Exp%	Act%
68.10	100	100
93.10	67.90	72.68
0.00	0.00	0.00
0.00	0.00	0.00

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
-----ISTD-----										
1) IR Bromochloromethan	2.083	2.046	1.527	1.452	1.677	1.785	1.456	1.699	1.716	14.33
2) T Propene	3.199	3.005	2.791	2.724	2.691	2.912	2.335	2.776	2.804	9.02
3) T Dichlorodifluorom	1.963	2.024	1.872	1.893	1.705	2.186	1.722	1.706	1.884	9.13
4) T Chloromethane	1.177	1.316	1.196	1.051	1.039	1.184	0.985	1.166	1.139	9.39
5) T 1,2-Dichloro-1,1,	1.724	1.755	1.687	1.750	1.769	2.054	1.707	2.034	1.810	8.12
6) T Vinyl Chloride	1.207	1.292	1.234	1.222	1.230	1.502	1.236	1.455	1.297	8.89
7) T 1,3-Butadiene	1.264	1.072	1.027	1.044	1.036	1.293	0.980	1.098	1.102	10.39
8) T Bromomethane	1.075	1.160	0.919	1.000	1.033	1.173	0.945	1.112	1.052	9.00
9) T Chloroethane	1.345	1.232	1.028	1.032	0.995	1.126	0.909	1.031	1.087	12.94
10) T Ethanol	3.791	3.815	3.200	2.940	2.879	3.247	2.591	3.014	3.185	13.55
11) T Acetonitrile	0.735	0.915	0.767	0.793	0.825	0.940	0.758	0.890	0.828	9.42
12) T Acrolein	1.167	1.074	1.074	1.016	1.100	0.854	0.946	1.026	1.026	11.02
13) T Acetone	2.730	2.602	2.531	2.419	2.360	2.816	2.244	2.579	2.535	7.48
14) T Trichlorofluorome	5.316	4.773	4.266	4.079	3.198	4.177	3.091	3.356	4.032	19.47
15) T 2-Propanol (Isopr	1.226	1.941	1.770	1.848	1.903	2.263	1.804	2.077	1.854	16.20
16) T Acrylonitrile	1.098	1.161	1.131	1.150	1.132	1.359	1.091	1.293	1.177	8.20
17) T 1,1-Dichloroethen	4.615	4.098	3.719	3.708	3.575	4.214	3.280	1.423	3.579	26.97
18) T 2-Methyl-2-Propan	1.722	1.622	1.254	1.259	1.232	1.428	1.151	1.356	1.378	14.59
19) T Methylene Chlorid	2.983	2.989	2.818	2.826	2.401	2.664	2.134	2.435	2.656	11.56
20) T 3-Chloro-1-propen	0.856	0.905	0.889	0.896	0.873	1.064	0.870	1.021	0.922	8.37
21) T Trichlorotrifluor	5.485	5.227	4.603	4.594	4.557	5.329	4.218	4.851	4.858	9.16
22) T Carbon Disulfide	1.848	2.189	1.929	2.047	2.041	2.440	1.938	2.230	2.083	9.32
23) T trans-1,2-Dichlor	2.670	2.757	2.264	2.426	2.360	2.850	2.271	2.607	2.526	8.94
24) T 1,1-Dichloroethan	4.114	4.046	3.646	3.595	3.643	4.360	3.538	4.115	3.882	8.02
25) T Methyl tert-Butyl	0.230	0.243	0.237	0.239	0.177	0.222	0.165	0.156	0.209	17.35
26) T Vinyl Acetate	0.989	1.007	0.915	0.892	0.915	1.072	0.855	0.766	0.926	10.32
27) T 2-Butanone (MEK)	1.913	1.980	1.790	1.854	1.890	2.244	1.789	2.049	1.939	7.84
28) T cis-1,2-Dichloroe	1.013	1.376	1.212	1.246	1.214	1.425	1.129	1.303	1.240	10.65
29) T Diisopropyl Ether										

575

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

DA 8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.395	0.513	0.492	0.479	0.491	0.561	0.439	0.491	0.483	10.18
31) T n-Hexane	2.766	2.862	2.319	2.390	2.266	2.624	2.095	2.429	2.469	10.60
32) T Chloroform	2.301	2.230	2.080	2.148	2.129	2.436	1.910	2.154	2.174	7.16
33) S 1,2-Dichloroethan	2.180	2.200	2.208	2.191	2.172	2.156	2.144	2.133	2.173	1.24
34) T Tetrahydrofuran (1.393	1.027	0.901	0.860	1.025	0.804	0.903		0.988	19.90
35) T Ethyl tert-Butyl	1.747	1.639	1.589	1.578	1.501	1.752	1.405	1.621	1.604	7.26
36) T 1,2-Dichloroethan	2.106	2.083	1.937	1.868	1.850	2.232	1.788	2.028	1.986	7.62
-----ISTD-----										
37) IR 1,4-Difluorobenze										
38) T 1,1,1-Trichloroet	0.493	0.438	0.396	0.402	0.392	0.469	0.380	0.422	0.424	9.47
39) T Isopropyl Acetate	0.199	0.203	0.176	0.176	0.176	0.207	0.163	0.183	0.185	8.43
40) T 1-Butanol	0.444	0.385	0.301	0.293	0.285	0.330	0.265	0.291	0.324	18.74
41) T Benzene	1.390	1.294	1.057	1.020	0.989	1.140	0.898	1.005	1.099	15.15
42) T Carbon Tetrachlor	0.346	0.351	0.327	0.329	0.336	0.408	0.329	0.377	0.350	8.13
43) T Cyclohexane	0.465	0.420	0.379	0.382	0.383	0.440	0.351	0.401	0.403	9.21
44) T tert-Amyl Methyl	0.924	0.905	0.814	0.799	0.775	0.901	0.707	0.778	0.825	9.32
45) T 1,2-Dichloropropa	0.283	0.286	0.260	0.268	0.261	0.313	0.251	0.286	0.276	7.20
46) T Bromodichlorometh	0.375	0.388	0.340	0.344	0.339	0.408	0.331	0.371	0.362	7.63
47) T Trichloroethene	0.255	0.248	0.231	0.233	0.233	0.283	0.230	0.270	0.248	8.13
48) T 1,4-Dioxane	0.211	0.210	0.217	0.202	0.205	0.235	0.190	0.211	0.210	6.08
49) T 2,2,4-Trimethylpe	1.459	1.421	1.232	1.243	1.233	1.428	1.112	1.229	1.295	9.62
50) T Methyl Methacryla	0.084	0.106	0.097	0.096	0.098	0.118	0.098	0.112	0.101	10.64
51) T n-Heptane	0.330	0.309	0.283	0.282	0.275	0.328	0.259	0.294	0.295	8.56
52) T cis-1,3-Dichlorop	0.492	0.469	0.422	0.433	0.431	0.517	0.421	0.476	0.458	7.87
53) T 4-Methyl-2-pentan	0.262	0.275	0.257	0.255	0.252	0.302	0.239	0.271	0.264	7.19
54) T trans-1,3-Dichlor	0.492	0.436	0.391	0.413	0.408	0.489	0.399	0.452	0.435	9.06
55) T 1,1,2-Trichloroet	0.248	0.251	0.226	0.234	0.227	0.270	0.220	0.254	0.241	7.12
-----ISTD-----										
56) IR Chlorobenzene-d5										
57) S Toluene-d8 (SS2)	2.196	2.196	2.181	2.184	2.176	2.177	2.188	2.177	2.184	0.37

576

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:25 2009

PA 8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.598	2.282	2.011	2.028	1.956	2.323	1.860	2.115	2.147	11.21
59) T 2-Hexanone	1.631	1.475	1.347	1.365	1.367	1.586	1.255	1.396	1.428	8.91
60) T Dibromochlorometh	0.488	0.496	0.473	0.476	0.482	0.597	0.487	0.566	0.508	9.17
61) T 1,2-Dibromoethane	0.567	0.548	0.480	0.512	0.510	0.617	0.496	0.577	0.539	8.68
62) T n-Butyl Acetate	1.970	1.781	1.544	1.562	1.554	1.839	1.464	1.748	1.683	10.51
63) T n-Octane	0.560	0.571	0.505	0.499	0.491	0.570	0.450	0.506	0.519	8.42
64) T Tetrachloroethene	0.482	0.483	0.476	0.481	0.458	0.568	0.469	0.556	0.497	8.29
65) T Chlorobenzene	1.590	1.363	1.215	1.270	1.217	1.454	1.169	1.348	1.328	10.63
66) T Ethylbenzene	2.854	2.575	2.315	2.330	2.298	2.695	2.145	2.421	2.454	9.60
67) T m- & p-Xylenes	2.378	2.159	1.844	1.903	1.829	2.151	1.706	1.913	1.985	11.21
68) T Bromoform	0.336	0.384	0.393	0.381	0.411	0.521	0.432	0.516	0.422	15.56
69) T Styrene	1.591	1.461	1.301	1.326	1.336	1.629	1.314	1.522	1.435	9.31
70) T o-Xylene	2.315	2.130	1.894	1.892	1.861	2.164	1.722	1.945	1.990	9.78
71) T n-Nonane	1.652	1.463	1.265	1.289	1.228	1.399	1.084	1.200	1.323	13.39
72) T 1,1,2,2-Tetrachlo	0.950	0.931	0.839	0.860	0.839	0.977	0.776	0.894	0.883	7.62
73) S Bromofluorobenzene	0.571	0.566	0.563	0.563	0.577	0.579	0.594	0.595	0.576	2.23
74) T Cumene	3.046	2.701	2.336	2.364	2.307	2.723	2.181	2.456	2.514	11.39
75) T alpha-Pinene	1.405	1.389	1.184	1.219	1.220	1.431	1.152	1.311	1.289	8.49
76) T n-Propylbenzene	3.730	3.286	2.971	3.088	2.984	3.473	2.742	3.012	3.161	10.05
77) T 3-Ethyltoluene	2.856	2.585	2.264	2.204	2.239	2.593	2.105	2.377	2.403	10.55
78) T 4-Ethyltoluene	2.821	2.428	2.122	2.235	2.150	2.576	2.035	2.260	2.328	11.34
79) T 1,3,5-Trimethylbe	2.371	1.981	1.833	1.859	1.835	2.153	1.724	1.953	1.964	10.62
80) T alpha-Methylstyrene	1.173	1.018	0.919	0.971	1.006	1.205	0.983	1.135	1.051	9.98
81) T 2-Ethyltoluene	2.866	2.524	2.246	2.299	2.267	2.666	2.132	2.386	2.423	10.14
82) T 1,2,4-Trimethylbe	2.204	2.160	1.885	1.969	1.896	2.217	1.758	1.932	2.003	8.49
83) T n-Decane	1.505	1.419	1.273	1.281	1.242	1.408	1.089	1.199	1.302	10.36
84) T Benzyl Chloride	1.924	1.912	1.669	1.773	1.834	2.197	1.749	1.959	1.877	8.66
85) T 1,3-Dichlorobenzene	1.163	0.993	0.903	0.959	0.940	1.131	0.925	1.094	1.013	9.96
86) T 1,4-Dichlorobenzene	1.251	1.103	0.995	0.996	0.980	1.192	0.979	1.149	1.081	9.99
87) T sec-Butylbenzene	3.139	2.866	2.554	2.575	2.546	2.985	2.364	2.613	2.705	9.71

577

(#) Out of Range ### Number of calibration levels exceeded format ###
 R13080609.M Thu Aug 06 17:21:26 2009

AD 8/6/09

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13080609.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08060914.D 0.2 =08060915.D 0.5 =08060916.D 1.0 =08060917.D 5.0 =08060918.D
 25 =08060919.D 50 =08060920.D 100 =08060921.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.658	2.459	2.338	2.329	2.319	2.712	2.154	2.330	2.412	7.80
89) T 1,2,3-Trimethylbe	2.247	2.205	1.983	1.961	1.936	2.249	1.789	1.951	2.040	8.39
90) T 1,2-Dichlorobenze	1.053	0.935	0.895	0.923	0.908	1.091	0.885	0.997	0.961	8.06
91) T d-Limonene	0.947	0.884	0.819	0.808	0.816	0.953	0.756	0.831	0.852	8.22
92) T 1,2-Dibromo-3-Chl	0.255	0.322	0.281	0.316	0.334	0.407	0.333	0.395	0.330	15.52
93) T n-Undecane	1.637	1.515	1.310	1.387	1.321	1.489	1.157	1.266	1.385	11.15
94) T 1,2,4-Trichlorobe	0.633	0.617	0.569	0.628	0.635	0.782	0.647	0.775	0.661	11.53
95) T Naphthalene	3.212	2.782	2.370	2.515	2.600	3.038	2.466	2.774	2.720	10.71
96) T n-Dodecane	2.008	1.787	1.580	1.604	1.487	1.664	1.312	1.433	1.609	13.47
97) T Hexachlorobutadie	0.508	0.450	0.382	0.370	0.364	0.452	0.378	0.458	0.420	12.69
98) T Cyclohexanone	1.058	0.930	0.839	0.840	0.827	0.975	0.777	0.870	0.889	10.33
99) T tert-Butylbenzene	2.338	1.994	1.824	1.861	1.804	2.116	1.695	1.873	1.938	10.59
100) T n-Butylbenzene	2.495	2.246	2.121	2.16	2.160	2.504	1.975	2.174	2.231	8.20

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-07240912**
20ng/L Std. ID: **S20-07310903**

200ng/L Std. ID: **S20-07310901**
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		4	4	20	20	20	200	200	200
						0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50
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	

DA 8/11/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID:

200ng/L Std. ID:
Dilution Factors:

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)							
		5	50	250		4		20		200		200	
		200ng/L	20ng/L	4ng/L		Injection (L):	0.025	0.050	0.025	0.05	0.25	0.125	0.25
				ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng	
Bromoform	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
Styrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
o-Xylene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Nonane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Cumene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
alpha-Pinene	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
n-Propylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
3-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
4-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
alpha-Methylstyrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
2-Ethyltoluene	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Decane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Benzyl Chloride	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,3-Dichlorobenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,4-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
sec-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
p-Isopropyltoluene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
1,2-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
d-Limonene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
chloropropane	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
n-Undecane	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48		0.112	0.224	0.560	1.12	5.60	28.0	56.0	112
Naphthalene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Dodecane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Methacrylonitrile	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Cyclohexanone	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
tert-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Butylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109

*Enter information in the Solid Shaded Areas ONLY.

DA 8/11/09

Calibration Status Report GCMS13

Method Path : J:\MS13\METHODS\
 Method File : R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\06\08060914.D
2	0.2	0	25	J:\MS13\DATA\2009_08\06\08060915.D
3	0.5	1	25	J:\MS13\DATA\2009_08\06\08060916.D
4	1.0	1	25	J:\MS13\DATA\2009_08\06\08060917.D
5	5.0	5	25	J:\MS13\DATA\2009_08\06\08060918.D
6	25	27	25	J:\MS13\DATA\2009_08\06\08060919.D
7	50	54	25	J:\MS13\DATA\2009_08\06\08060920.D
8	100	107	25	J:\MS13\DATA\2009_08\06\08060921.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 06 17:09 2009	Aug 06 13:44 2009	06 Aug 2009 11:55
2	0.2	Aug 06 17:10 2009	Aug 06 13:51 2009	06 Aug 2009 12:36
3	0.5	Aug 06 17:10 2009	Aug 06 13:52 2009	06 Aug 2009 13:17
4	1.0	Aug 06 17:10 2009	Aug 06 14:32 2009	06 Aug 2009 13:57
5	5.0	Aug 06 17:10 2009	Aug 06 15:06 2009	06 Aug 2009 14:38
6	25	Aug 06 17:11 2009	Aug 06 16:11 2009	06 Aug 2009 15:18
7	50	Aug 06 17:13 2009	Aug 06 17:00 2009	06 Aug 2009 15:59
8	100	Aug 06 17:14 2009	Aug 06 17:08 2009	06 Aug 2009 16:39

R13080609.M Thu Aug 06 17:33:51 2009

ISA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	255549	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1302832	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	644252	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	557049	23.882	ng	0.00
Spiked Amount	25.000		Recovery	= 95.52%		
57) Toluene-d8 (SS2)	18.85	98	1414545	25.331	ng	0.00
Spiked Amount	25.000		Recovery	= 101.32%		
73) Bromofluorobenzene (SS3)	23.24	174	367818	25.794	ng	0.00
Spiked Amount	25.000		Recovery	= 103.16%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	2278m	0.115	ng	
3) Dichlorodifluoromethan...	4.88	85	3433	0.104	ng	# 94
4) Chloromethane	5.22	50	2007	0.097	ng	65
5) 1,2-Dichloro-1,1,2,2-t...	5.44	135	1275	0.099	ng	# 57
6) Vinyl Chloride	5.66	62	1780	0.088	ng	74
7) 1,3-Butadiene	5.93	54	1480	0.102	ng	# 57
8) Bromomethane	6.41	94	1318	0.141	ng	87
9) Chloroethane	6.74	64	1110	0.099	ng	# 41
10) Ethanol	7.16	45	7147	0.588	ng	69
11) Acetonitrile	7.45	41	4069	0.095	ng	91
12) Acrolein	7.61	56	811	0.069	ng	# 31
13) Acetone	7.89	58	11564	0.833	ng	96
14) Trichlorofluoromethane	8.05	101	2930	0.103	ng	93
15) 2-Propanol (Isopropanol)	8.41	45	10270	0.224	ng	74
16) Acrylonitrile	8.64	53	1328m	0.066	ng	
17) 1,1-Dichloroethene	9.05	96	1235	0.096	ng	87
18) 2-Methyl-2-Propanol (t...	9.38	59	9529	0.242	ng	# 74
19) Methylene Chloride	9.25	84	1883	0.126	ng	97
20) 3-Chloro-1-propene (Al...	9.45	41	3293m	0.136	ng	
21) Trichlorotrifluoroethane	9.69	151	962	0.092	ng	# 76
22) Carbon Disulfide	9.66	76	5999	0.117	ng	# 74
23) trans-1,2-Dichloroethene	10.68	61	2002	0.090	ng	97
24) 1,1-Dichloroethane	10.98	63	2893	0.104	ng	89
25) Methyl tert-Butyl Ether	11.26	73	4584	0.102	ng	94
26) Vinyl Acetate	11.31	86	1182	0.392	ng	# 1
27) 2-Butanone (MEK)	11.76	72	1112	0.111	ng	# 28
28) cis-1,2-Dichloroethene	12.25	61	2132	0.099	ng	90
29) Diisopropyl Ether	12.70	87	1108	0.091	ng	# 1
30) Ethyl Acetate	12.74	61	860	0.165	ng	# 73
31) n-Hexane	12.59	57	3082	0.112	ng	79

583

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	2517	0.100	ng	93
34) Tetrahydrofuran (THF)	13.49	72	2071	0.175	ng #	78
35) Ethyl tert-Butyl Ether	13.50	87	1839	0.099	ng #	87
36) 1,2-Dichloroethane	13.80	62	2282	0.103	ng #	62
38) 1,1,1-Trichloroethane	14.19	97	2700	0.112	ng	89
39) Isopropyl Acetate	14.88	61	2167	0.217	ng #	92
40) 1-Butanol	14.97	56	4795	0.282	ng #	79
41) Benzene	14.88	78	7680	0.120	ng	96
42) Carbon Tetrachloride	15.11	117	1945	0.096	ng	94
43) Cyclohexane	15.30	84	5207	0.231	ng	98
44) tert-Amyl Methyl Ether	15.91	73	5009	0.107	ng	91
45) 1,2-Dichloropropane	16.11	63	1549	0.100	ng	99
46) Bromodichloromethane	16.37	83	2109	0.107	ng	98
47) Trichloroethene	16.45	130	1409	0.106	ng	98
48) 1,4-Dioxane	16.57	88	1174	0.103	ng #	56
49) 2,2,4-Trimethylpentane...	16.52	57	7907	0.112	ng	98
50) Methyl Methacrylate	16.79	100	927	0.171	ng #	35
51) n-Heptane	16.89	71	1821	0.109	ng #	88
52) cis-1,3-Dichloropropene	17.66	75	2536	0.105	ng	86
53) 4-Methyl-2-pentanone	17.81	58	1504	0.104	ng	85
54) trans-1,3-Dichloropropene	18.36	75	2818	0.128	ng	86
55) 1,1,2-Trichloroethane	18.61	97	1358	0.101	ng	92
58) Toluene	18.98	91	7232	0.125	ng	97
59) 2-Hexanone	19.41	43	4623	0.119	ng	91
60) Dibromochloromethane	19.53	129	1445	0.107	ng	97
61) 1,2-Dibromoethane	19.87	107	1548	0.111	ng	98
62) n-Butyl Acetate	20.21	43	5583	0.127	ng	97
63) n-Octane	20.28	57	1545	0.106	ng	95
64) Tetrachloroethene	20.47	166	1267	0.096	ng	98
65) Chlorobenzene	21.35	112	4424	0.127	ng	91
66) Ethylbenzene	21.82	91	7796	0.119	ng	99
67) m- & p-Xylenes	22.06	91	12746	0.242	ng #	30
68) Bromoform	22.15	173	892	0.081	ng	95
69) Styrene	22.51	104	4388	0.119	ng	97
70) o-Xylene	22.66	91	6325	0.119	ng	98
71) n-Nonane	22.91	43	4513	0.122	ng	93
72) 1,1,2,2-Tetrachloroethane	22.64	83	2620	0.112	ng	100
74) Cumene	23.41	105	8086	0.125	ng	97
75) alpha-Pinene	23.91	93	3657	0.107	ng	94
76) n-Propylbenzene	24.05	91	9900	0.119	ng	97
77) 3-Ethyltoluene	24.18	105	8022	0.131	ng	93
78) 4-Ethyltoluene	24.23	105	7924	0.128	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	6660	0.126	ng	97

584

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:21 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

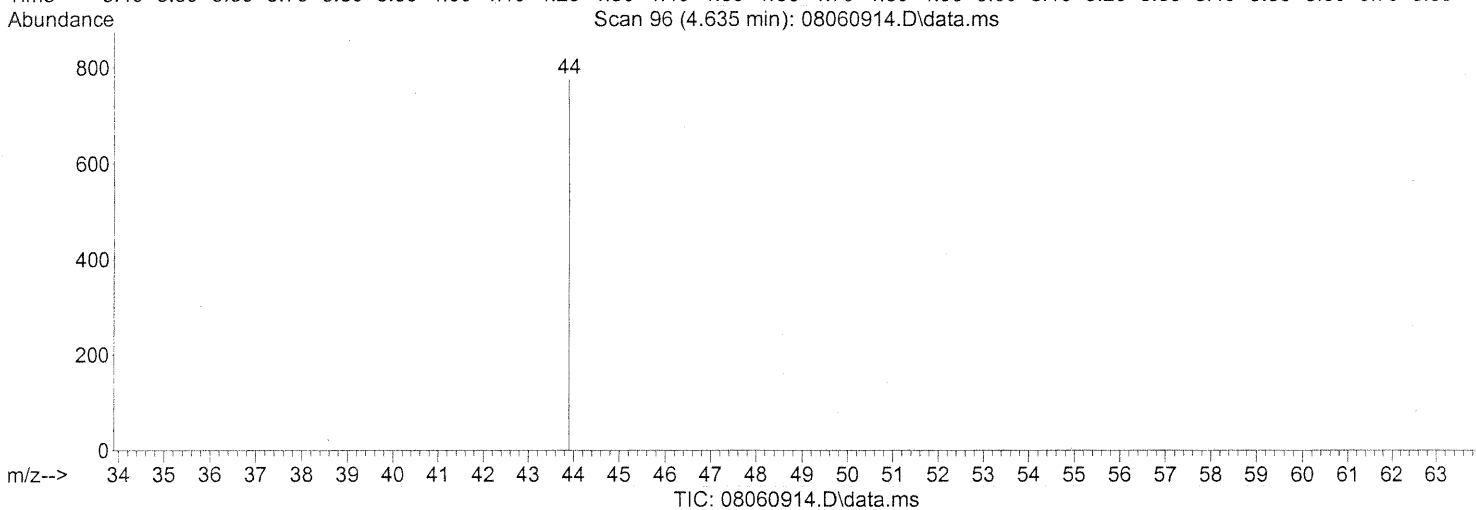
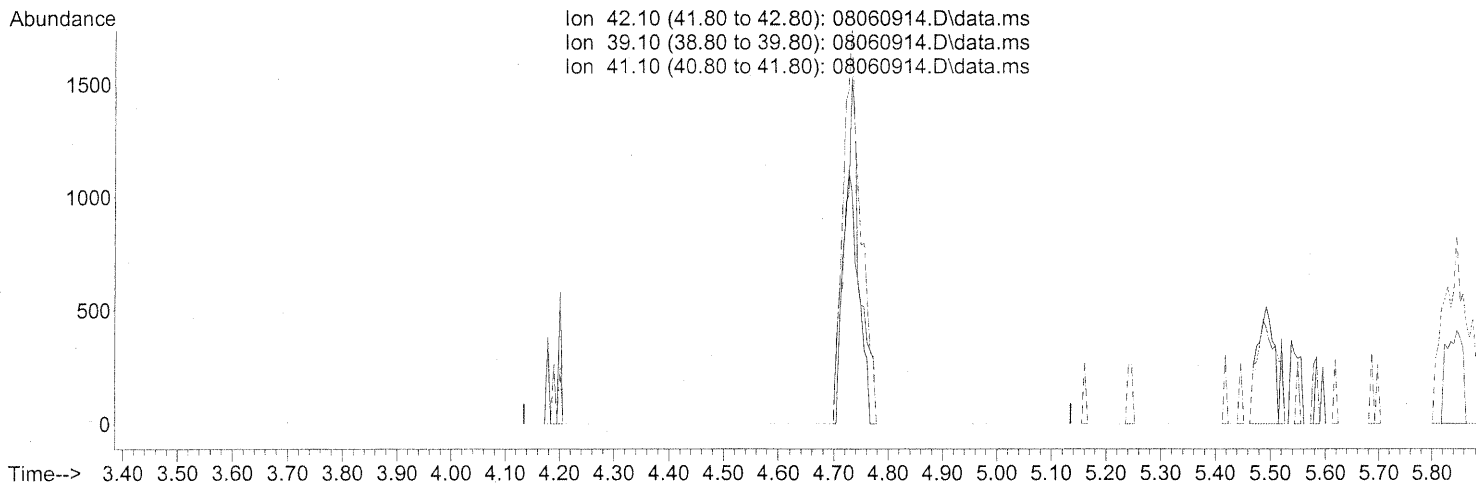
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.52	118	3235	0.121	ng	93
81) 2-Ethyltoluene	24.56	105	7755	0.121	ng	95
82) 1,2,4-Trimethylbenzene	24.83	105	6020	0.114	ng	98
83) n-Decane	24.93	57	4190	0.120	ng	96
84) Benzyl Chloride	25.01	91	5455	0.120	ng	96
85) 1,3-Dichlorobenzene	25.03	146	3266	0.129	ng	95
86) 1,4-Dichlorobenzene	25.11	146	3418	0.127	ng	96
87) sec-Butylbenzene	25.17	105	8575	0.121	ng	94
88) 4-Isopropyltoluene (p-...	25.35	119	7056	0.112	ng	94
89) 1,2,3-Trimethylbenzene	25.36	105	6195	0.115	ng	95
90) 1,2-Dichlorobenzene	25.53	146	2877	0.118	ng	94
91) d-Limonene	25.53	68	2659	0.116	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	724	0.093	ng #	73
93) n-Undecane	26.46	57	4598	0.129	ng	92
94) 1,2,4-Trichlorobenzene	27.61	180	1826	0.118	ng #	75
95) Naphthalene	27.77	128	8775	0.145	ng	72
96) n-Dodecane	27.71	57	5122m	0.135	ng	
97) Hexachlorobutadiene	28.15	225	1439	0.145	ng	94
98) Cyclohexanone	22.35	55	2671	0.101	ng	91
99) tert-Butylbenzene	24.83	119	6387	0.126	ng	92
100) n-Butylbenzene	25.86	91	7008	0.122	ng	96

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)

4.635min (-4.635) 0.00ng

response 0

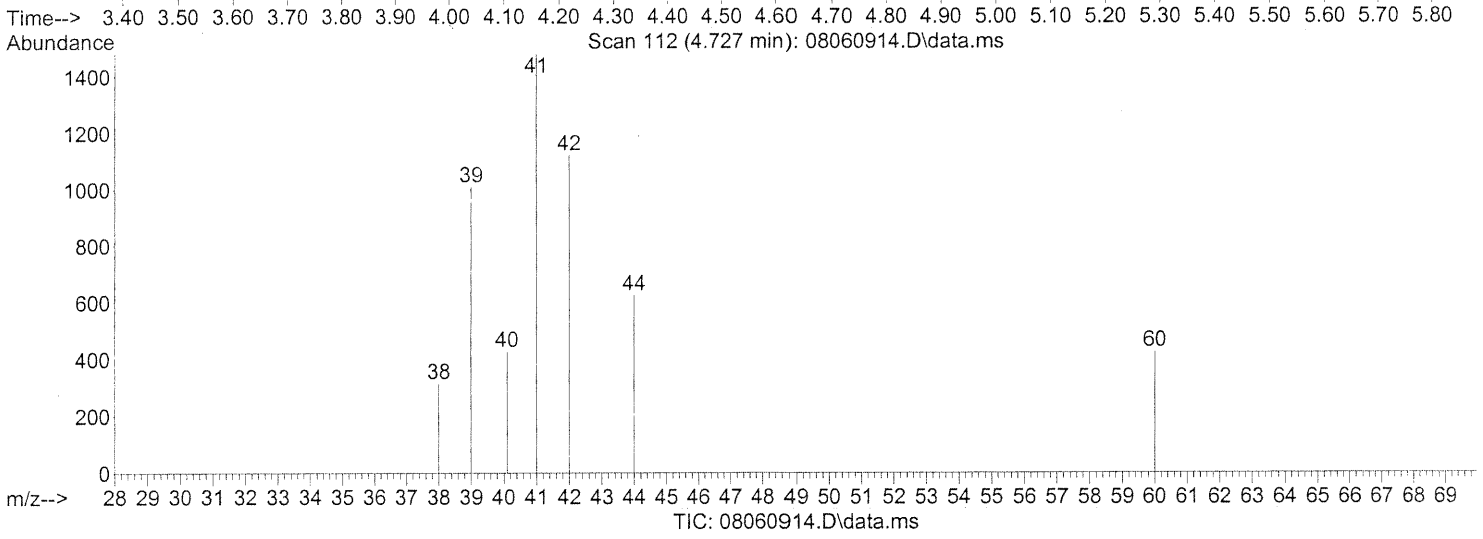
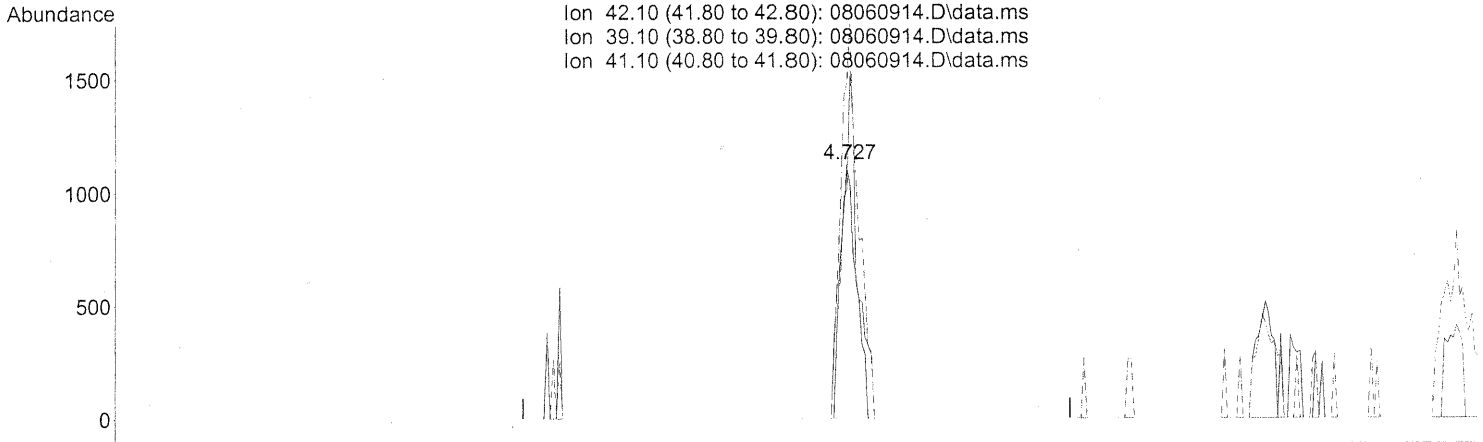
MP

Ion	Exp%	Act%
42.10	100	0.00
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.727min (+0.092) 0.12ng m
 response 2278

Ion	Exp%	Act%
42.10	100	100
39.10	111.90	0.00#
41.10	150.20	0.00#
0.00	0.00	0.00

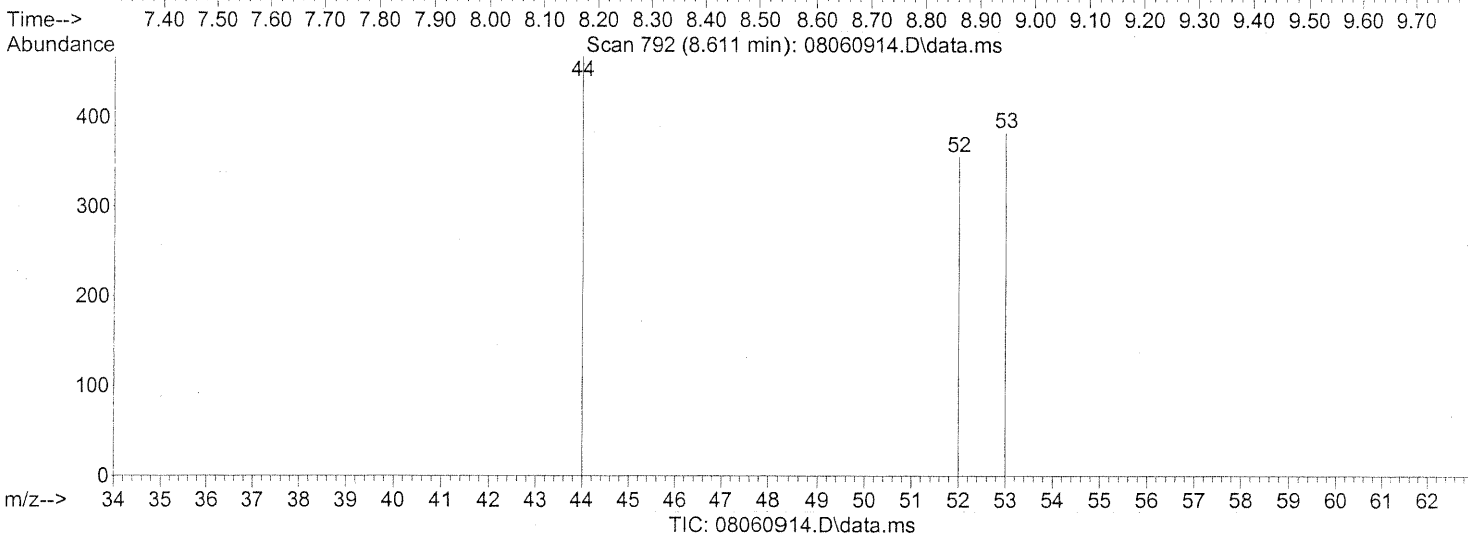
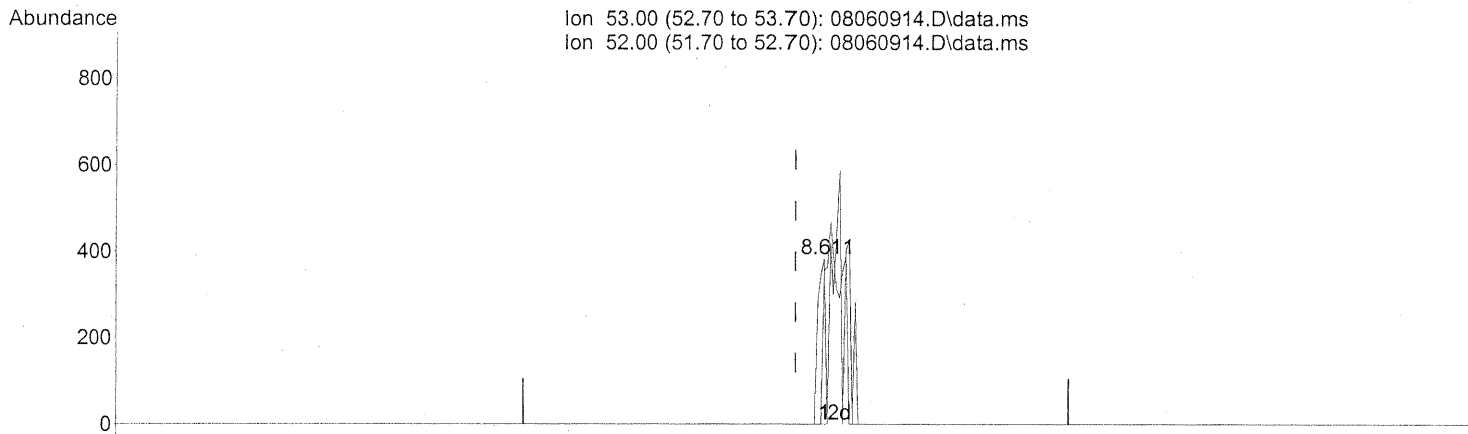
HP-7 IC

WA 8/6/09
 WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



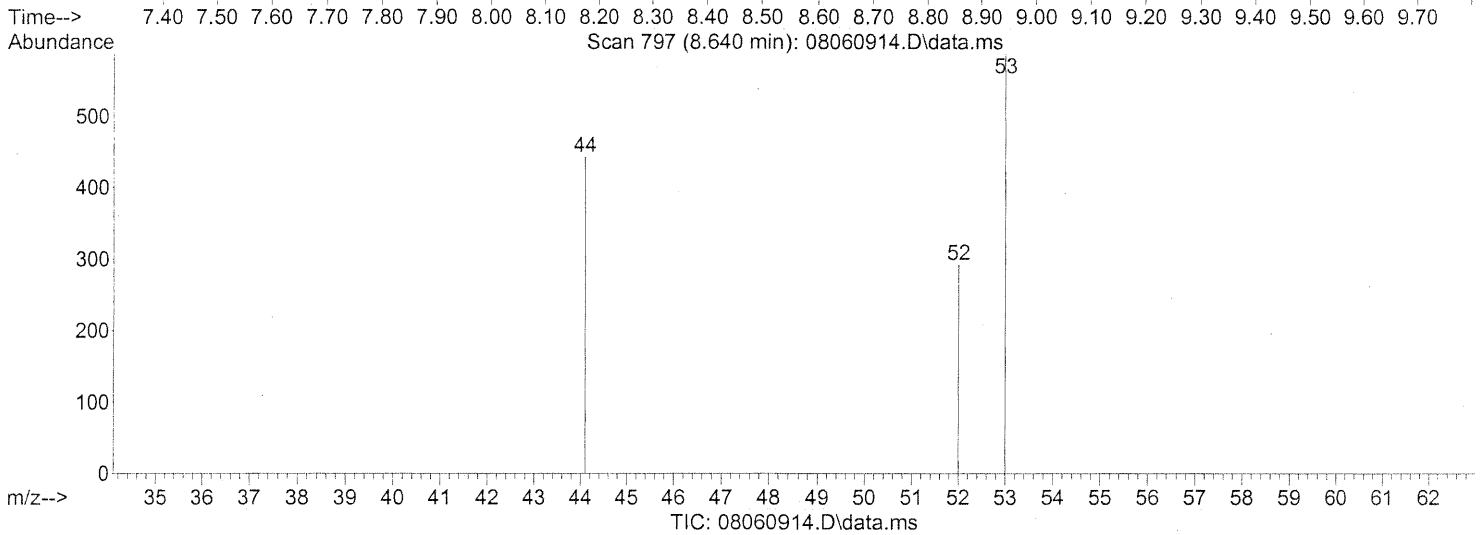
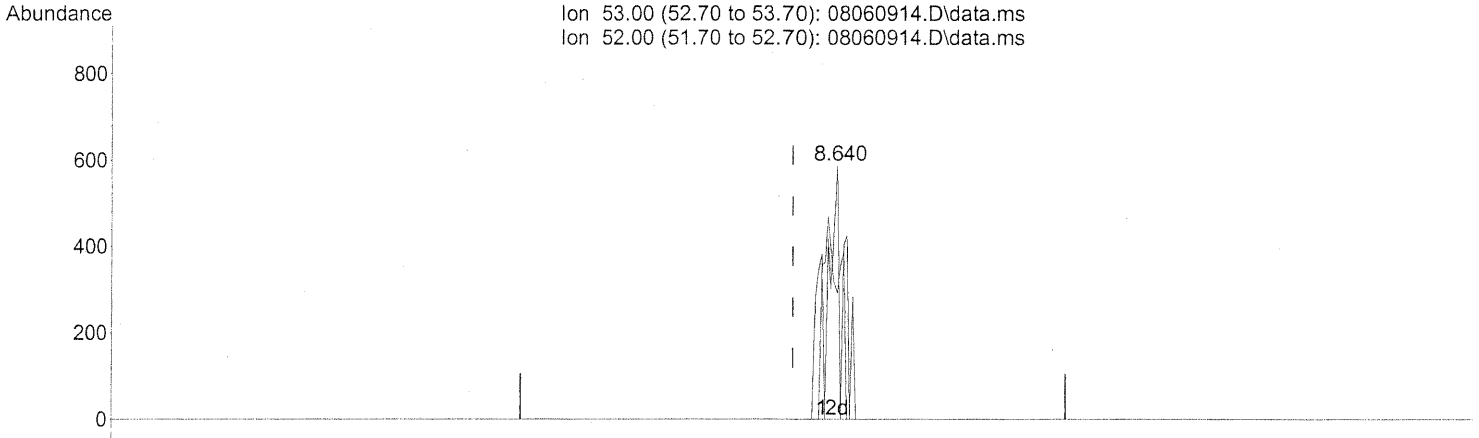
(16) Acrylonitrile (T)
8.611min (+0.052) 0.02ng
response 347
Ion Exp% Act%
53.00 100 100
52.00 81.20 289.91#
0.00 0.00 0.00
0.00 0.00 0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.640min (+0.080) 0.07ng m

response 1328

Ion	Exp%	Act%
53.00	100	100
52.00	81.20	75.75
0.00	0.00	0.00
0.00	0.00	0.00

MP → IC

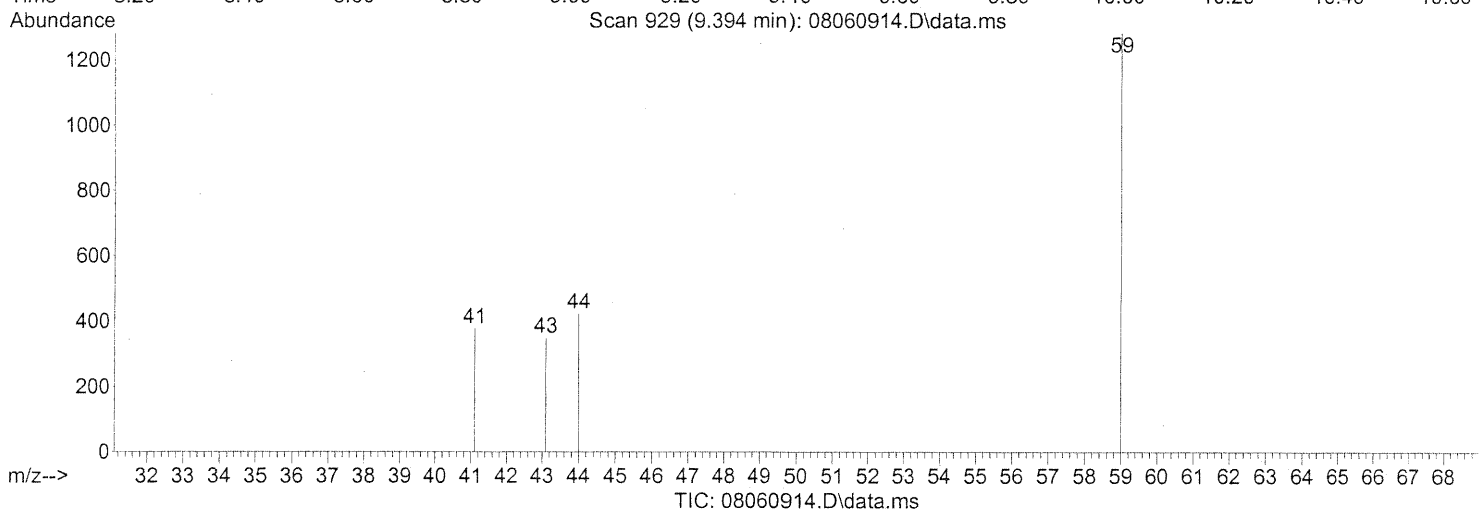
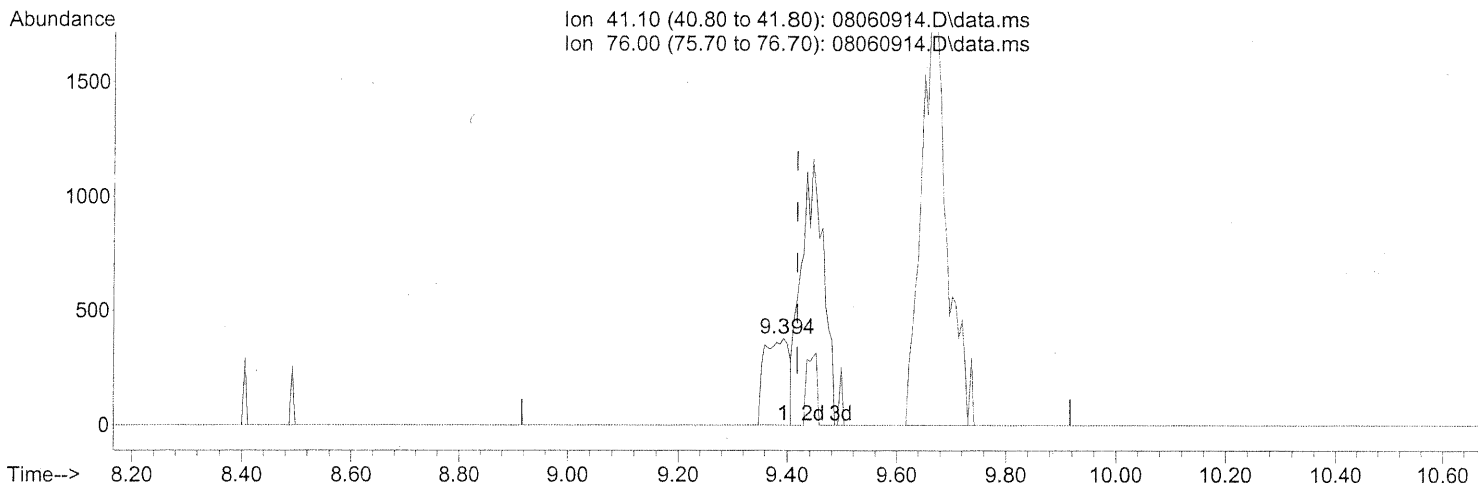
PSA 8/6/09

UH 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.394min (-0.023) 0.05ng

response 1147

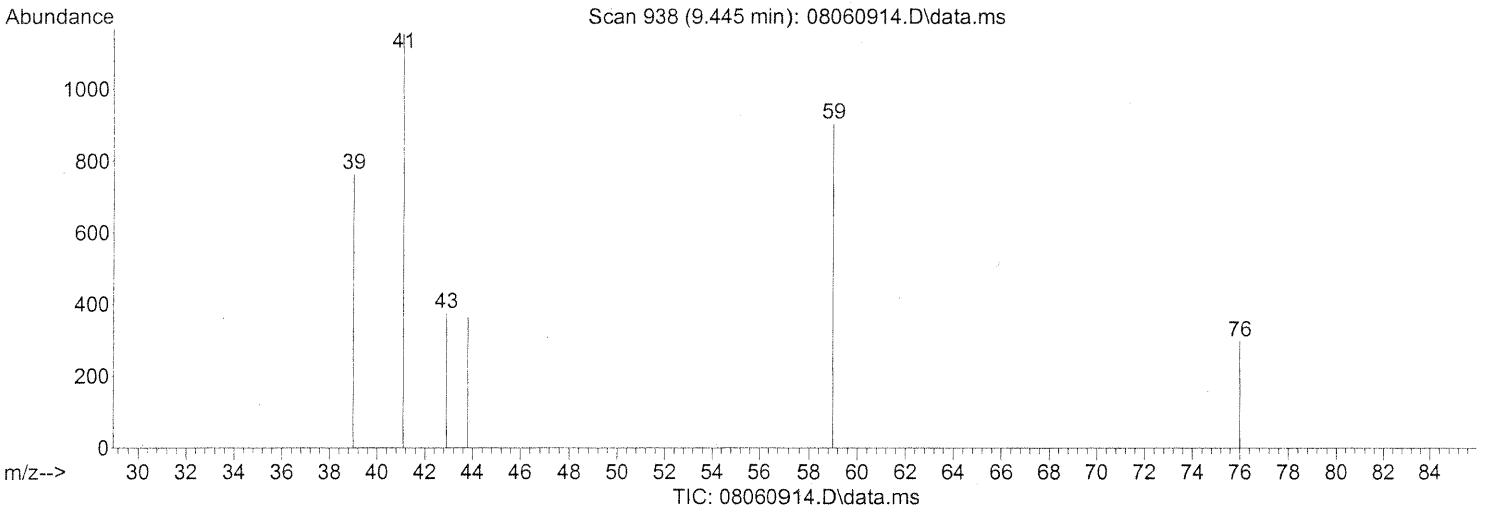
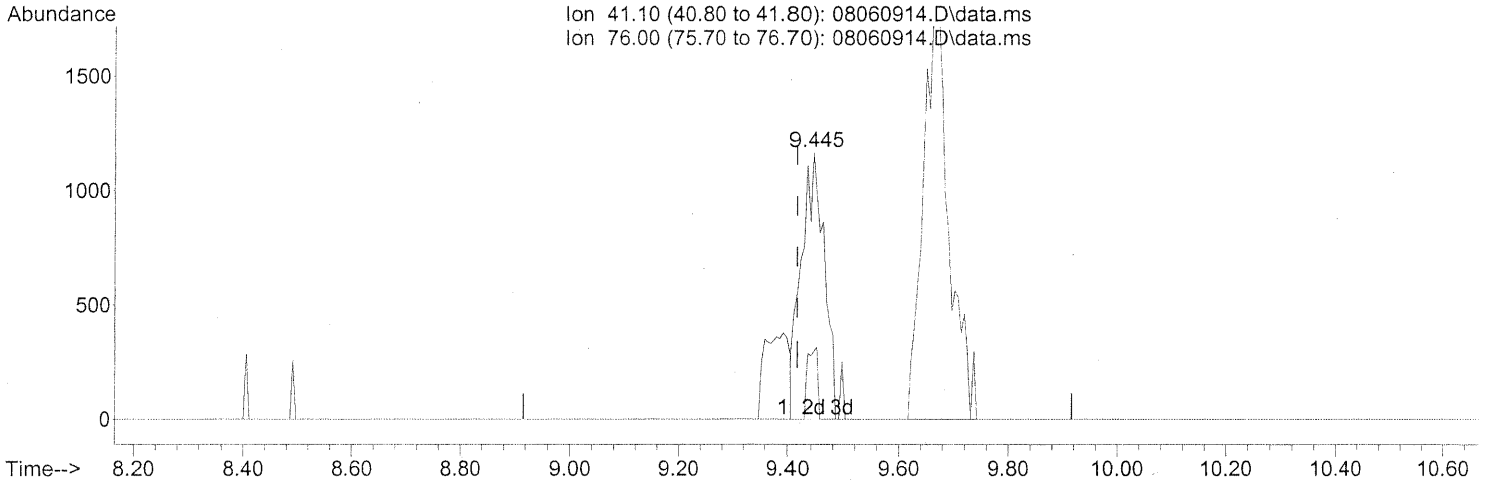
IPI

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060914.D
Acq On : 6 Aug 2009 11:55
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.445min (+0.029) 0.14ng m

response 3293

Ion	Exp%	Act%
41.10	100	100
76.00	31.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

IPI -> IC

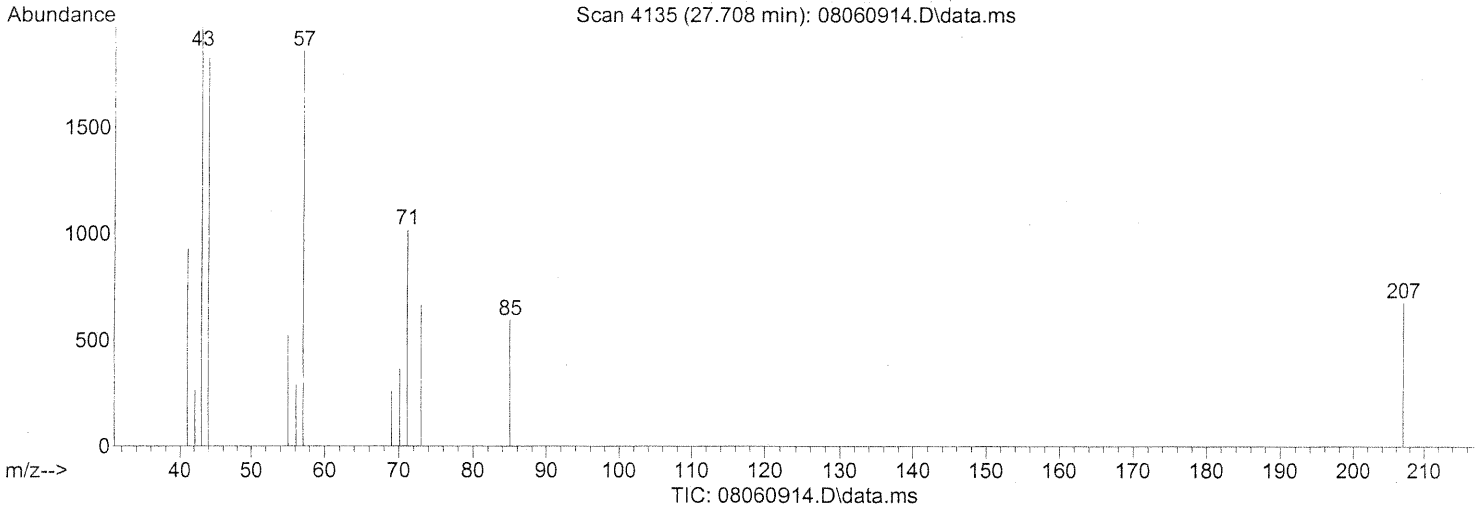
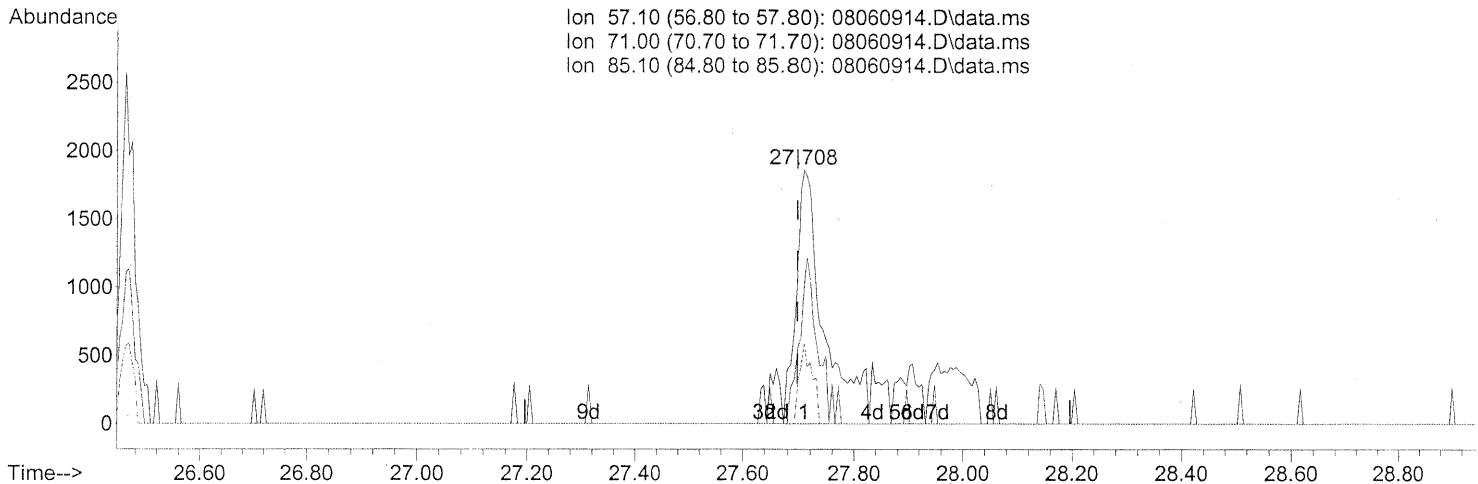
DA 8/6/09

WA 8/11/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.708min (+0.012) 0.17ng
 response 6461

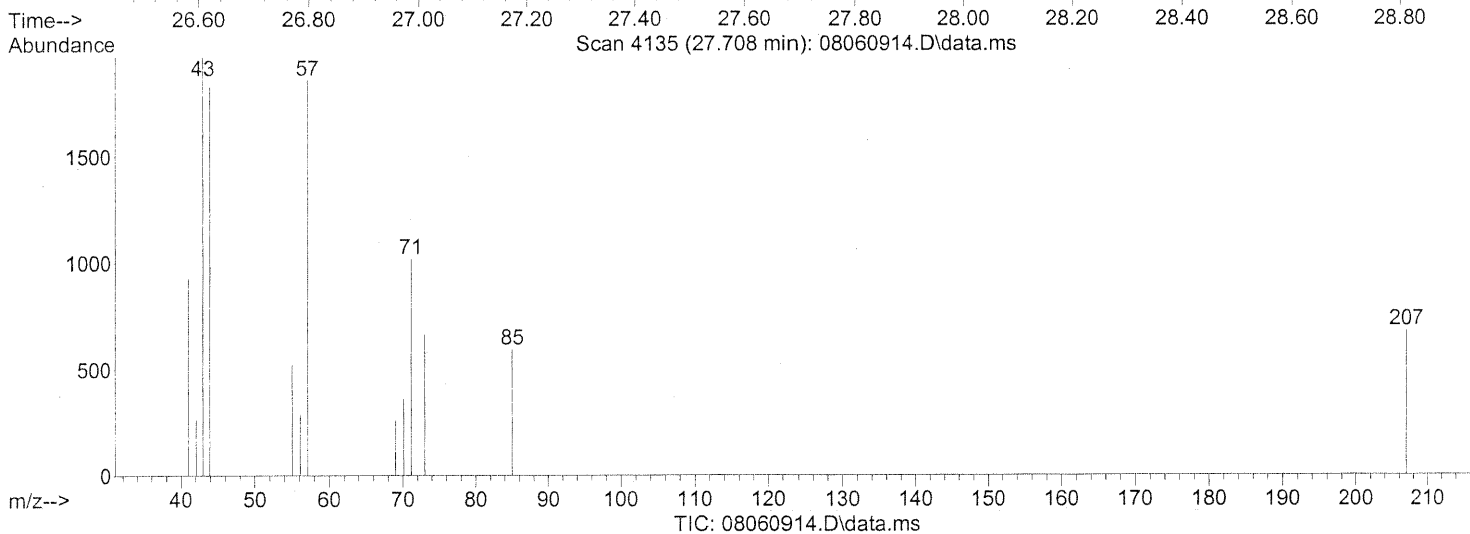
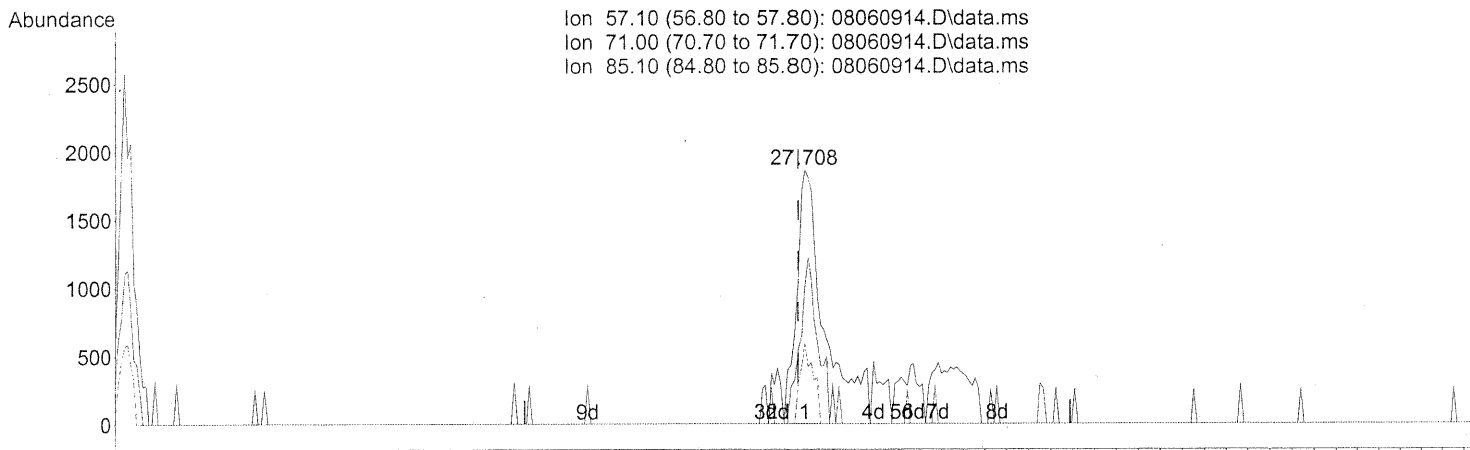
Ion	Exp%	Act%
57.10	100	100
71.00	55.20	44.30
85.10	31.00	15.03
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060914.D
 Acq On : 6 Aug 2009 11:55
 Operator : WA
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:40:33 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.708min (+0.012) 0.14ng m
 response 5122

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	55.88
85.10	31.00	18.96
0.00	0.00	0.00

PT → IC

DA 8/6/09

W 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	252357	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1287515	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	648408	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	555188	24.104	ng	-0.01
Spiked Amount			25.000			
			Recovery			= 96.40%
57) Toluene-d8 (SS2)	18.85	98	1423881	25.335	ng	0.00
Spiked Amount			25.000			
			Recovery			= 101.32%
73) Bromofluorobenzene (SS3)	23.24	174	367233	25.587	ng	0.00
Spiked Amount			25.000			
			Recovery			= 102.36%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	4419	0.226	ng	95
3) Dichlorodifluoromethan...	4.88	85	6369	0.196	ng	# 87
4) Chloromethane	5.21	50	4086	0.199	ng	83
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2817	0.221	ng	91
6) Vinyl Chloride	5.65	62	3579	0.178	ng	98
7) 1,3-Butadiene	5.92	54	3131	0.218	ng	# 84
8) Bromomethane	6.39	94	2208	0.240	ng	96
9) Chloroethane	6.73	64	2365	0.214	ng	76
10) Ethanol	7.14	45	12938	1.079	ng	90
11) Acetonitrile	7.43	41	8087	0.191	ng	98
12) Acrolein	7.61	56	1996	0.172	ng	97
13) Acetone	7.88	58	19631	1.432	ng	90
14) Trichlorofluoromethane	8.03	101	5515	0.196	ng	100
15) 2-Propanol (Isopropanol)	8.39	45	18213	0.402	ng	92
16) Acrylonitrile	8.61	53	4154	0.208	ng	# 68
17) 1,1-Dichloroethene	9.06	96	2579	0.203	ng	95
18) 2-Methyl-2-Propanol (t...	9.36	59	16711	0.430	ng	# 72
19) Methylene Chloride	9.26	84	3503	0.237	ng	87
20) 3-Chloro-1-propene (Al...	9.45	41	6518	0.274	ng	75
21) Trichlorotrifluoroethane	9.70	151	2010	0.194	ng	88
22) Carbon Disulfide	9.66	76	11291	0.222	ng	89
23) trans-1,2-Dichloroethene	10.69	61	4685	0.213	ng	98
24) 1,1-Dichloroethane	10.99	63	5901	0.215	ng	94
25) Methyl tert-Butyl Ether	11.26	73	8904	0.200	ng	96
26) Vinyl Acetate	11.29	86	2463	0.826	ng	# 18
27) 2-Butanone (MEK)	11.74	72	2236	0.225	ng	# 50
28) cis-1,2-Dichloroethene	12.24	61	4357	0.205	ng	93
29) Diisopropyl Ether	12.69	87	2973	0.247	ng	# 1
30) Ethyl Acetate	12.72	61	2207	0.428	ng	92
31) n-Hexane	12.59	57	6299	0.232	ng	84

595

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	4817	0.193	ng	98
34) Tetrahydrofuran (THF)	13.47	72	3093	0.264	ng #	79
35) Ethyl tert-Butyl Ether	13.50	87	3408	0.185	ng	93
36) 1,2-Dichloroethane	13.80	62	4457	0.203	ng	93
38) 1,1,1-Trichloroethane	14.18	97	4737	0.198	ng	94
39) Isopropyl Acetate	14.88	61	4379	0.444	ng #	93
40) 1-Butanol	14.96	56	8215	0.489	ng	83
41) Benzene	14.87	78	14131	0.224	ng	100
42) Carbon Tetrachloride	15.11	117	3903	0.195	ng	90
43) Cyclohexane	15.30	84	9304	0.418	ng	95
44) tert-Amyl Methyl Ether	15.90	73	9698	0.210	ng	97
45) 1,2-Dichloropropane	16.11	63	3093	0.202	ng	90
46) Bromodichloromethane	16.37	83	4318	0.222	ng	99
47) Trichloroethene	16.43	130	2706	0.206	ng	96
48) 1,4-Dioxane	16.59	88	2311	0.204	ng	80
49) 2,2,4-Trimethylpentane...	16.52	57	15224	0.219	ng	98
50) Methyl Methacrylate	16.80	100	2319	0.433	ng #	89
51) n-Heptane	16.89	71	3376	0.205	ng	94
52) cis-1,3-Dichloropropene	17.65	75	4783	0.201	ng	95
53) 4-Methyl-2-pentanone	17.81	58	3120	0.219	ng	83
54) trans-1,3-Dichloropropene	18.37	75	4944	0.227	ng	98
55) 1,1,2-Trichloroethane	18.61	97	2714	0.205	ng	97
58) Toluene	18.98	91	12787	0.220	ng	99
59) 2-Hexanone	19.41	43	8414	0.215	ng	94
60) Dibromochloromethane	19.53	129	2958	0.217	ng	97
61) 1,2-Dibromoethane	19.87	107	3012	0.214	ng	96
62) n-Butyl Acetate	20.20	43	10164	0.229	ng	95
63) n-Octane	20.28	57	3172	0.216	ng	90
64) Tetrachloroethene	20.47	166	2555	0.193	ng	91
65) Chlorobenzene	21.35	112	7635	0.217	ng	94
66) Ethylbenzene	21.82	91	14159	0.215	ng	100
67) m- & p-Xylenes	22.04	91	23298	0.439	ng #	30
68) Bromoform	22.15	173	2052	0.184	ng	92
69) Styrene	22.51	104	8110	0.219	ng	96
70) o-Xylene	22.65	91	11714	0.220	ng	99
71) n-Nonane	22.91	43	8045	0.216	ng	83
72) 1,1,2,2-Tetrachloroethane	22.63	83	5167	0.220	ng	91
74) Cumene	23.41	105	14433	0.222	ng	97
75) alpha-Pinene	23.91	93	7275	0.211	ng	82
76) n-Propylbenzene	24.05	91	17557	0.210	ng	99
77) 3-Ethyltoluene	24.18	105	14616	0.237	ng	95
78) 4-Ethyltoluene	24.23	105	13728	0.220	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	11202	0.210	ng	98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:51:56 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

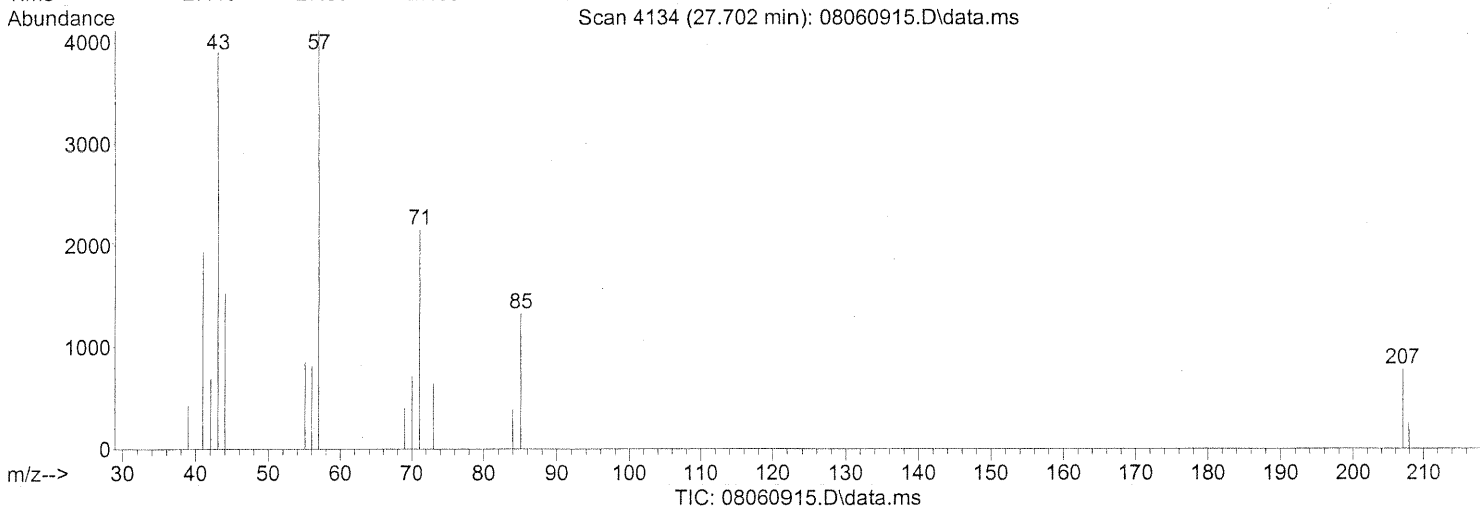
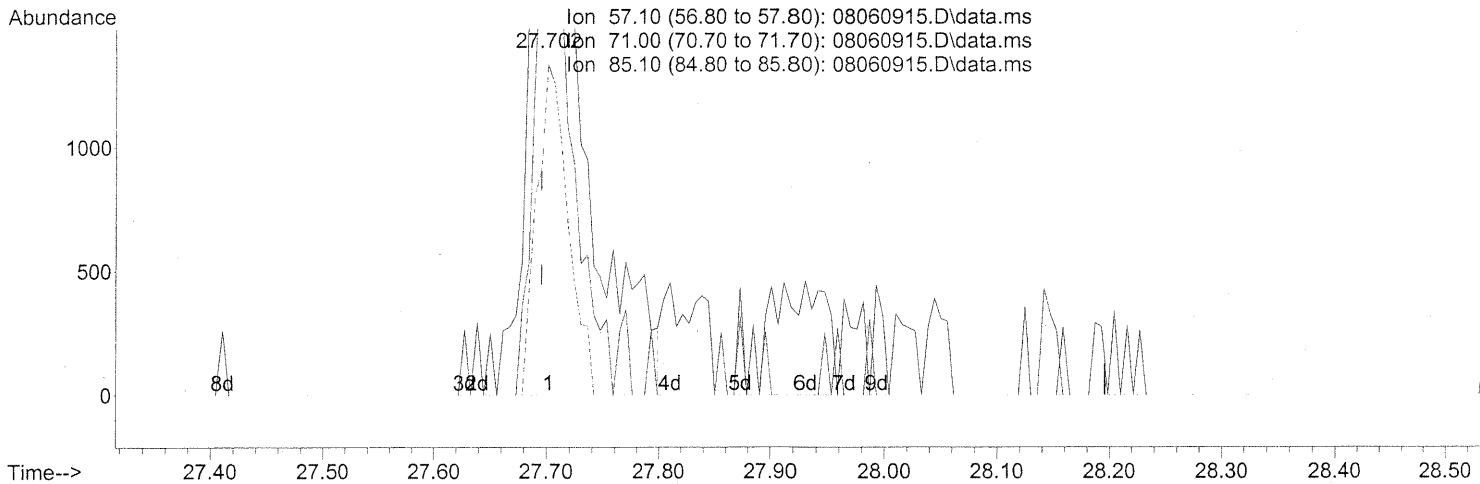
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	5651	0.210	ng	99
81) 2-Ethyltoluene	24.57	105	13747	0.213	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	11876	0.224	ng	98
83) n-Decane	24.93	57	7948	0.226	ng	95
84) Benzyl Chloride	25.00	91	10911	0.238	ng	97
85) 1,3-Dichlorobenzene	25.03	146	5614	0.221	ng	98
86) 1,4-Dichlorobenzene	25.11	146	6064	0.225	ng	94
87) sec-Butylbenzene	25.17	105	15761	0.221	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	13140	0.207	ng	95
89) 1,2,3-Trimethylbenzene	25.36	105	12238	0.227	ng	97
90) 1,2-Dichlorobenzene	25.53	146	5142	0.209	ng	95
91) d-Limonene	25.53	68	5001	0.217	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1840	0.234	ng	93
93) n-Undecane	26.46	57	8565	0.238	ng	94
94) 1,2,4-Trichlorobenzene	27.58	180	3584	0.231	ng	# 89
95) Naphthalene	27.74	128	15295	0.251	ng	84
96) n-Dodecane	27.70	57	9176m	0.241	ng	
97) Hexachlorobutadiene	28.14	225	2566	0.257	ng	96
98) Cyclohexanone	22.34	55	4726	0.178	ng	94
99) tert-Butylbenzene	24.83	119	10963	0.214	ng	100
100) n-Butylbenzene	25.87	91	12700	0.219	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060915.D
 Acq On : 6 Aug 2009 12:36
 Operator : WA
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07240912
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



(96) n-Dodecane (T)
 27.702min (+0.006) 0.27ng

response 10324

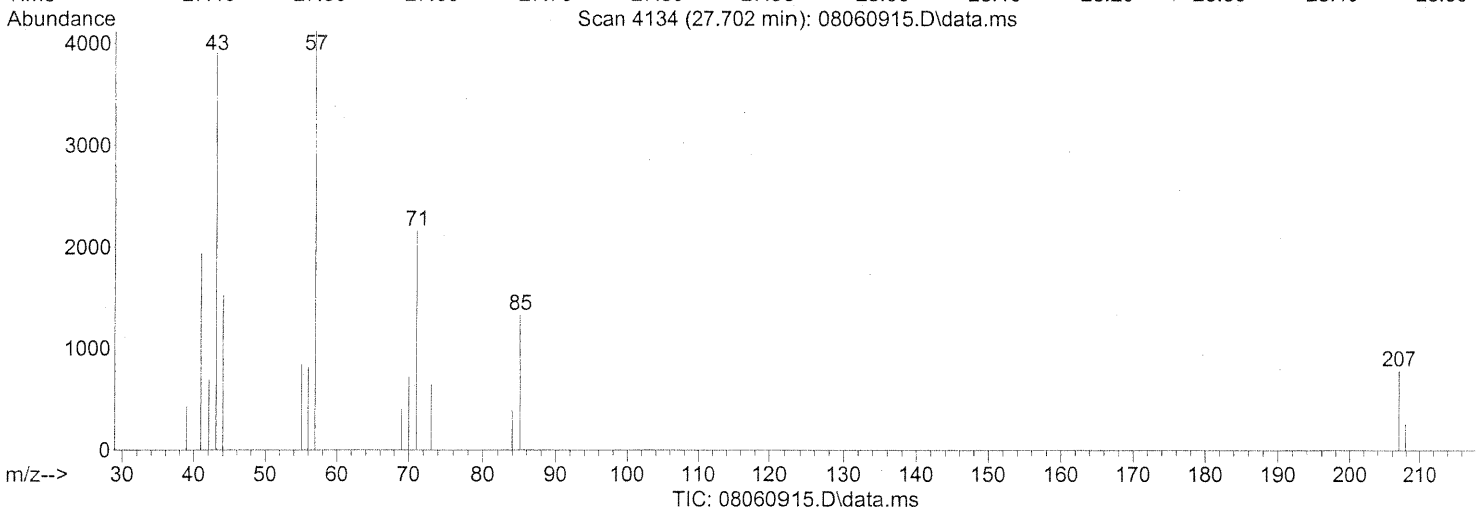
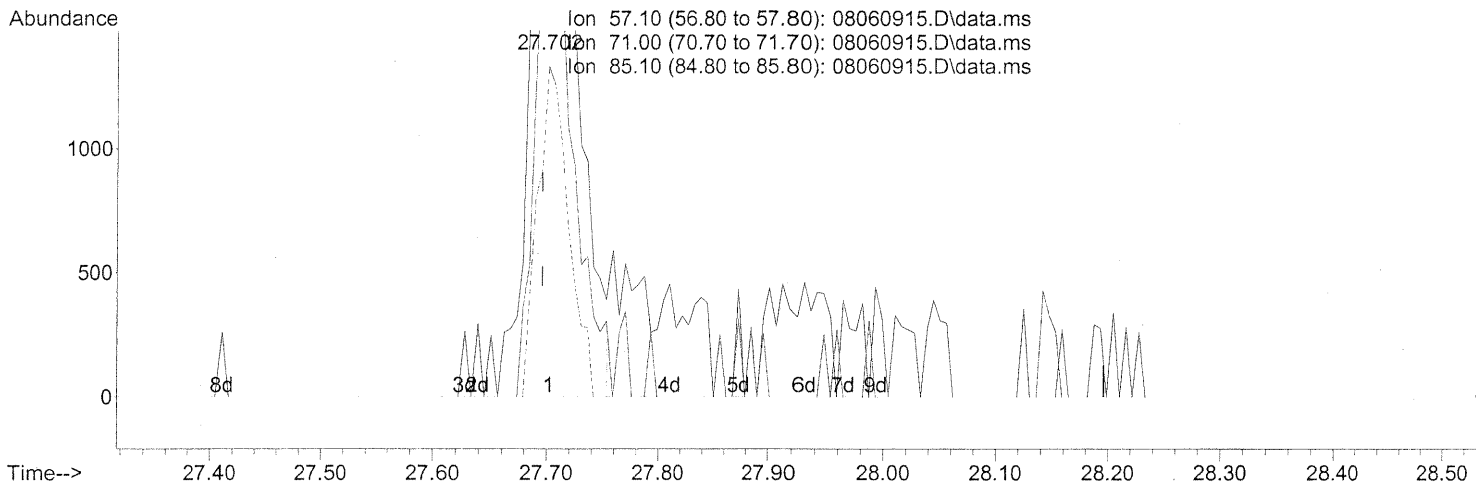
PT

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	48.39
85.10	31.00	24.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060915.D
Acq On : 6 Aug 2009 12:36
Operator : WA
Sample : 0.2ng TO-15 ICAL STD
Misc : S20-07200902/S20-07240912
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 06 13:44:57 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



(96) n-Dodecane (T)

27.702min (+0.006) 0.24ng m

response 9176

Ion	Exp%	Act%
57.10	100	100
71.00	55.20	54.45
85.10	31.00	27.86
0.00	0.00	0.00

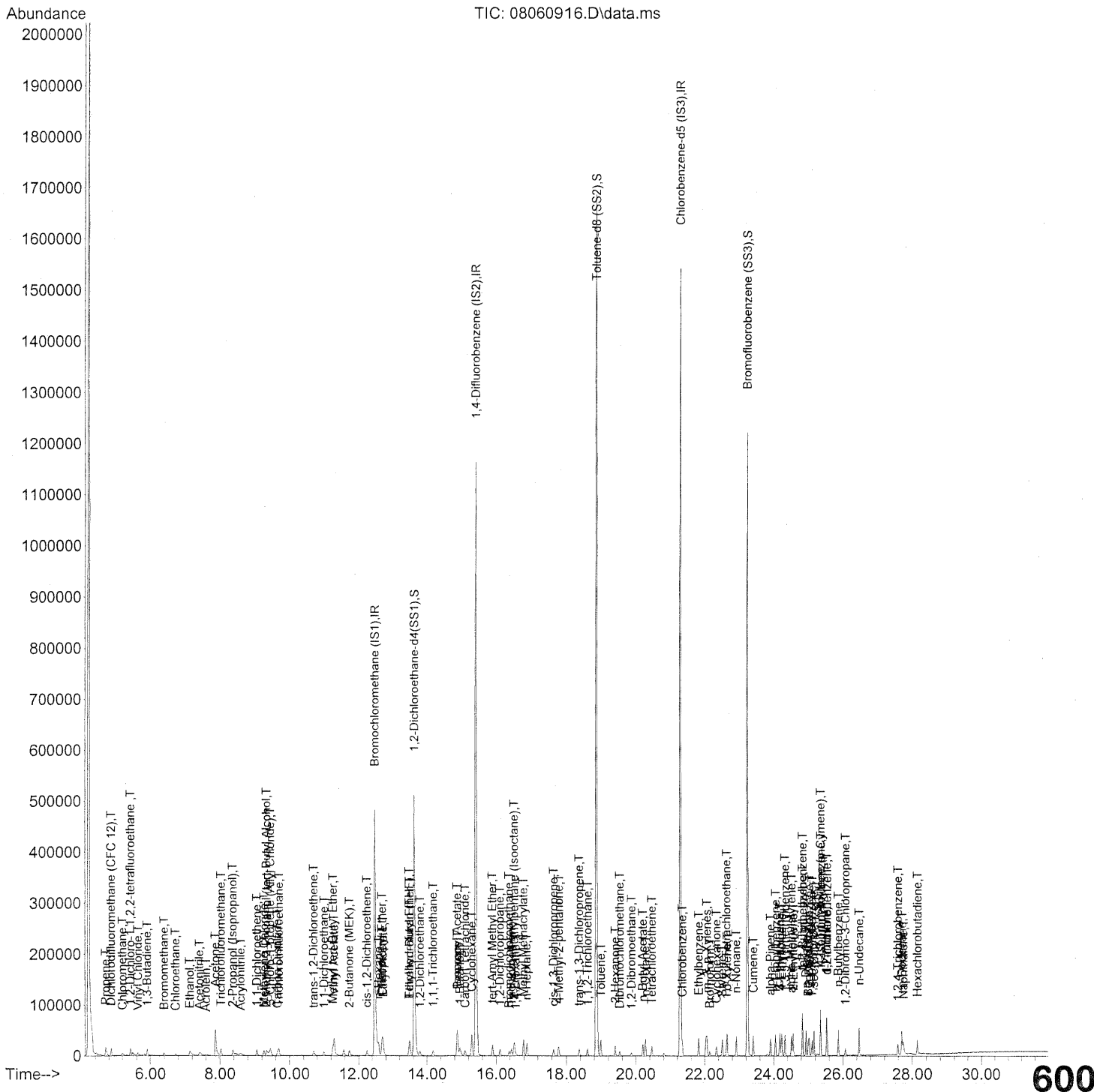
PT → IC

DA 8/6/09

WA 8/11/09

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060916.D
Acq On : 6 Aug 2009 13:17
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	251360	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1297306	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	659325	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	555033	24.193	ng	0.00
Spiked Amount	25.000		Recovery	=	96.76%	
57) Toluene-d8 (SS2)	18.85	98	1438185	25.165	ng	0.00
Spiked Amount	25.000		Recovery	=	100.68%	
73) Bromofluorobenzene (SS3)	23.24	174	371243	25.439	ng	0.00
Spiked Amount	25.000		Recovery	=	101.76%	

Target Compounds

						Qvalue
2) Propene	4.70	42	8216	0.422	ng	95
3) Dichlorodifluoromethan...	4.86	85	14734	0.455	ng	97
4) Chloromethane	5.20	50	9411	0.460	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	6371	0.503	ng	100
6) Vinyl Chloride	5.64	62	8565	0.428	ng	99
7) 1,3-Butadiene	5.91	54	7445	0.520	ng	95
8) Bromomethane	6.40	94	5266	0.574	ng	94
9) Chloroethane	6.73	64	4665	0.424	ng	97
10) Ethanol	7.13	45	26864	2.249	ng	95
11) Acetonitrile	7.42	41	16894	0.401	ng	99
12) Acrolein	7.61	56	4162	0.360	ng	96
13) Acetone	7.87	58	32266	2.363	ng	95
14) Trichlorofluoromethane	8.03	101	13358	0.476	ng	98
15) 2-Propanol (Isopropanol)	8.37	45	40537	0.898	ng	83
16) Acrylonitrile	8.59	53	9433	0.475	ng	98
17) 1,1-Dichloroethene	9.06	96	6255	0.494	ng	91
18) 2-Methyl-2-Propanol (t...	9.33	59	37768	0.976	ng	82
19) Methylene Chloride	9.26	84	6743	0.459	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	15298	0.645	ng	80
21) Trichlorotrifluoroethane	9.70	151	4915	0.477	ng	96
22) Carbon Disulfide	9.65	76	24760	0.489	ng	# 74
23) trans-1,2-Dichloroethene	10.69	61	10278	0.469	ng	99
24) 1,1-Dichloroethane	10.99	63	12065	0.442	ng	98
25) Methyl tert-Butyl Ether	11.25	73	19979	0.451	ng	99
26) Vinyl Acetate	11.29	86	5981	2.014	ng	# 48
27) 2-Butanone (MEK)	11.74	72	5062	0.512	ng	# 88
28) cis-1,2-Dichloroethene	12.24	61	9809	0.463	ng	99
29) Diisopropyl Ether	12.69	87	6520	0.544	ng	# 1
30) Ethyl Acetate	12.72	61	5291	1.030	ng	97
31) n-Hexane	12.58	57	12706	0.470	ng	601

DA 8/16/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	11191	0.451	ng	99
34) Tetrahydrofuran (THF)	13.48	72	5678	0.487	ng #	86
35) Ethyl tert-Butyl Ether	13.49	87	8229	0.448	ng	97
36) 1,2-Dichloroethane	13.80	62	10322	0.472	ng	97
38) 1,1,1-Trichloroethane	14.18	97	10785	0.448	ng	98
39) Isopropyl Acetate	14.87	61	9606	0.968	ng #	90
40) 1-Butanol	14.96	56	16246	0.959	ng	85
41) Benzene	14.88	78	29072	0.458	ng	99
42) Carbon Tetrachloride	15.11	117	9173	0.455	ng	100
43) Cyclohexane	15.30	84	21267	0.948	ng	99
44) tert-Amyl Methyl Ether	15.89	73	21956	0.472	ng	98
45) 1,2-Dichloropropane	16.11	63	7082	0.459	ng	98
46) Bromodichloromethane	16.37	83	9525	0.486	ng	99
47) Trichloroethene	16.45	130	6343	0.479	ng	98
48) 1,4-Dioxane	16.57	88	6011	0.528	ng	89
49) 2,2,4-Trimethylpentane...	16.52	57	33244	0.475	ng	99
50) Methyl Methacrylate	16.79	100	5377	0.998	ng	95
51) n-Heptane	16.88	71	7790	0.470	ng	99
52) cis-1,3-Dichloropropene	17.66	75	10842	0.453	ng	98
53) 4-Methyl-2-pentanone	17.80	58	7333	0.511	ng	91
54) trans-1,3-Dichloropropene	18.36	75	11151	0.509	ng	100
55) 1,1,2-Trichloroethane	18.61	97	6160	0.462	ng	98
58) Toluene	18.99	91	28640	0.484	ng	99
59) 2-Hexanone	19.40	43	19538	0.492	ng	97
60) Dibromochloromethane	19.53	129	7167	0.517	ng	93
61) 1,2-Dibromoethane	19.87	107	6714	0.470	ng	98
62) n-Butyl Acetate	20.20	43	22390	0.496	ng	99
63) n-Octane	20.28	57	7129	0.478	ng	100
64) Tetrachloroethene	20.46	166	6404	0.475	ng	100
65) Chlorobenzene	21.34	112	17302	0.484	ng	100
66) Ethylbenzene	21.82	91	32353	0.484	ng	98
67) m- & p-Xylenes	22.06	91	50569	0.938	ng #	30
68) Bromoform	22.15	173	5337	0.471	ng	97
69) Styrene	22.51	104	18352	0.488	ng	98
70) o-Xylene	22.65	91	26471	0.488	ng	97
71) n-Nonane	22.91	43	17683	0.467	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	11841	0.496	ng	95
74) Cumene	23.41	105	31734	0.479	ng	97
75) alpha-Pinene	23.90	93	15763	0.450	ng	95
76) n-Propylbenzene	24.05	91	40346	0.474	ng	99
77) 3-Ethyltoluene	24.18	105	32540	0.519	ng	95
78) 4-Ethyltoluene	24.23	105	30506	0.480	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	26350	0.487	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060916.D
 Acq On : 6 Aug 2009 13:17
 Operator : WA
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 13:52:36 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	12971	0.473	ng	97
81) 2-Ethyltoluene	24.57	105	31095	0.473	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	26353	0.488	ng	96
83) n-Decane	24.94	57	18126	0.506	ng	98
84) Benzyl Chloride	25.00	91	24206	0.520	ng	100
85) 1,3-Dichlorobenzene	25.03	146	12977	0.502	ng	98
86) 1,4-Dichlorobenzene	25.11	146	13901	0.506	ng	97
87) sec-Butylbenzene	25.17	105	35698	0.493	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	31753	0.493	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	27977	0.510	ng	100
90) 1,2-Dichlorobenzene	25.53	146	12508	0.501	ng	98
91) d-Limonene	25.53	68	11768	0.502	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.07	157	4075	0.510	ng	90
93) n-Undecane	26.46	57	18836	0.515	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	8410	0.533	ng	97
95) Naphthalene	27.74	128	33134	0.535	ng	93
96) n-Dodecane	27.70	57	20632	0.533	ng	95
97) Hexachlorobutadiene	28.15	225	5535	0.546	ng	100
98) Cyclohexanone	22.34	55	10843	0.402	ng	97
99) tert-Butylbenzene	24.83	119	25490	0.490	ng	97
100) n-Butylbenzene	25.86	91	30481	0.517	ng	98

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	253159	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.42	114	1287874	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	650609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	554603	24.002	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.00%	
57) Toluene-d8 (SS2)	18.85	98	1420867	25.196	ng	0.00
Spiked Amount	25.000		Recovery	=	100.80%	
73) Bromofluorobenzene (SS3)	23.24	174	366142	25.425	ng	0.00
Spiked Amount	25.000		Recovery	=	101.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.70	42	15729	0.803	ng	98
3) Dichlorodifluoromethan...	4.86	85	28962	0.889	ng	99
4) Chloromethane	5.18	50	19165	0.931	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	11280	0.884	ng	99
6) Vinyl Chloride	5.62	62	17901	0.889	ng	98
7) 1,3-Butadiene	5.89	54	14844	1.029	ng	95
8) Bromomethane	6.38	94	10788	1.167	ng	95
9) Chloroethane	6.71	64	10224	0.923	ng	92
10) Ethanol	7.12	45	54360	4.518	ng	98
11) Acetonitrile	7.42	41	31256	0.737	ng	99
12) Acrolein	7.59	56	8675	0.746	ng	98
13) Acetone	7.86	58	59842	4.351	ng	99
14) Trichlorofluoromethane	8.03	101	25722	0.909	ng	98
15) 2-Propanol (Isopropanol)	8.35	45	78074	1.717	ng	95
16) Acrylonitrile	8.58	53	19833	0.991	ng	100
17) 1,1-Dichloroethene	9.05	96	12813	1.005	ng	91
18) 2-Methyl-2-Propanol (t...	9.32	59	75842	1.947	ng	80
19) Methylene Chloride	9.25	84	13644	0.922	ng	99
20) 3-Chloro-1-propene (Al...	9.44	41	30907	1.293	ng	82
21) Trichlorotrifluoroethane	9.68	151	9982	0.961	ng	98
22) Carbon Disulfide	9.65	76	49774	0.977	ng	100
23) trans-1,2-Dichloroethene	10.68	61	21976	0.995	ng	99
24) 1,1-Dichloroethane	10.98	63	26037	0.946	ng	100
25) Methyl tert-Butyl Ether	11.24	73	39678	0.890	ng	100
26) Vinyl Acetate	11.28	86	12172	4.070	ng	# 63
27) 2-Butanone (MEK)	11.72	72	9933	0.997	ng	# 84
28) cis-1,2-Dichloroethene	12.24	61	20467	0.958	ng	96
29) Diisopropyl Ether	12.68	87	13497	1.117	ng	# 1
30) Ethyl Acetate	12.71	61	10334	1.998	ng	99
31) n-Hexane	12.58	57	26377	0.968	ng	95

605

WA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	23278	0.931	ng	100
34) Tetrahydrofuran (THF)	13.47	72	10036	0.854	ng #	89
35) Ethyl tert-Butyl Ether	13.49	87	16455	0.890	ng	99
36) 1,2-Dichloroethane	13.79	62	20046	0.910	ng	98
38) 1,1,1-Trichloroethane	14.17	97	21730	0.909	ng	96
39) Isopropyl Acetate	14.87	61	18933	1.921	ng #	82
40) 1-Butanol	14.95	56	31282	1.861	ng	83
41) Benzene	14.88	78	55682	0.883	ng	99
42) Carbon Tetrachloride	15.10	117	18312	0.914	ng	99
43) Cyclohexane	15.30	84	42338	1.901	ng	99
44) tert-Amyl Methyl Ether	15.89	73	42797	0.926	ng	98
45) 1,2-Dichloropropane	16.11	63	14488	0.946	ng	100
46) Bromodichloromethane	16.38	83	19155	0.984	ng	98
47) Trichloroethene	16.44	130	12738	0.969	ng	99
48) 1,4-Dioxane	16.57	88	11142	0.985	ng #	68
49) 2,2,4-Trimethylpentane...	16.52	57	66591	0.958	ng	97
50) Methyl Methacrylate	16.79	100	10587	1.978	ng	96
51) n-Heptane	16.89	71	15425	0.937	ng	99
52) cis-1,3-Dichloropropene	17.65	75	22102	0.930	ng	100
53) 4-Methyl-2-pentanone	17.80	58	14470	1.016	ng	94
54) trans-1,3-Dichloropropene	18.36	75	23424	1.078	ng	99
55) 1,1,2-Trichloroethane	18.61	97	12640	0.955	ng	96
58) Toluene	18.99	91	57012	0.977	ng	99
59) 2-Hexanone	19.40	43	39077	0.996	ng	99
60) Dibromochloromethane	19.54	129	14256	1.042	ng	99
61) 1,2-Dibromoethane	19.87	107	14117	1.001	ng	100
62) n-Butyl Acetate	20.20	43	44725	1.004	ng	99
63) n-Octane	20.28	57	13890	0.944	ng	97
64) Tetrachloroethene	20.47	166	12781	0.961	ng	97
65) Chlorobenzene	21.35	112	35691	1.012	ng	99
66) Ethylbenzene	21.82	91	64286	0.974	ng	100
67) m- & p-Xylenes	22.04	91	102993	1.935	ng #	30
68) Bromoform	22.16	173	10221	0.914	ng	96
69) Styrene	22.51	104	36918	0.995	ng	98
70) o-Xylene	22.65	91	52204	0.975	ng	100
71) n-Nonane	22.91	43	35568	0.951	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	23941	1.017	ng	98
74) Cumene	23.41	105	63375	0.970	ng	98
75) alpha-Pinene	23.90	93	32053	0.926	ng	96
76) n-Propylbenzene	24.05	91	82766	0.986	ng	98
77) 3-Ethyltoluene	24.18	105	62532	1.011	ng	99
78) 4-Ethyltoluene	24.23	105	63400	1.011	ng	100
79) 1,3,5-Trimethylbenzene	24.32	105	52731	0.987	ng	100

606

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060917.D
 Acq On : 6 Aug 2009 13:57
 Operator : WA
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

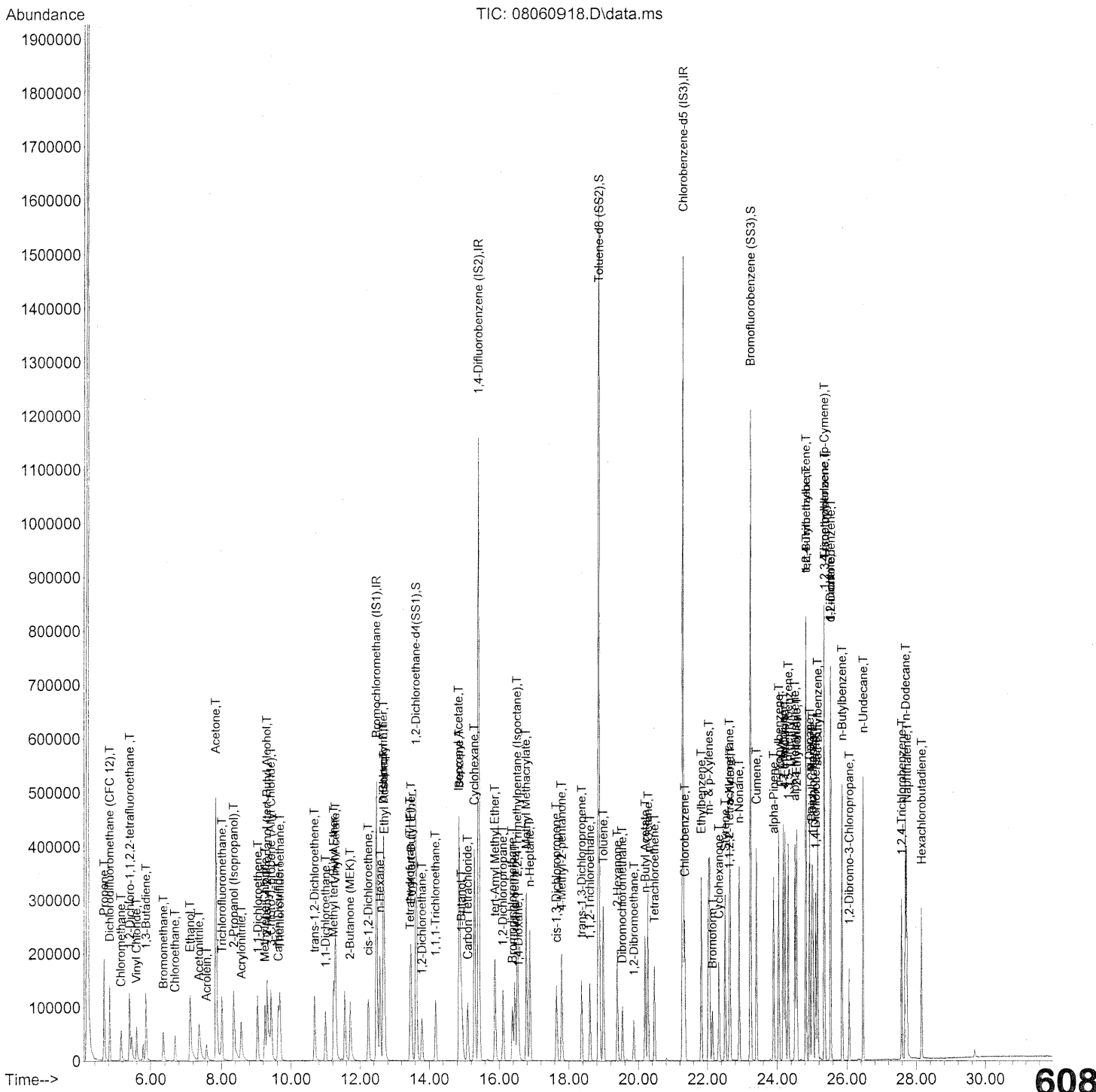
Quant Time: Aug 06 14:32:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	27052	1.000	ng	96
81) 2-Ethyltoluene	24.56	105	62808	0.968	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	54320	1.019	ng	99
83) n-Decane	24.94	57	36002	1.019	ng	99
84) Benzyl Chloride	25.00	91	50759	1.106	ng	97
85) 1,3-Dichlorobenzene	25.03	146	27203	1.066	ng	98
86) 1,4-Dichlorobenzene	25.11	146	27477	1.014	ng	100
87) sec-Butylbenzene	25.17	105	71023	0.994	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	62425	0.982	ng	97
89) 1,2,3-Trimethylbenzene	25.36	105	54604	1.008	ng	98
90) 1,2-Dichlorobenzene	25.53	146	25453	1.032	ng	99
91) d-Limonene	25.53	68	22906	0.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	9032	1.145	ng	96
93) n-Undecane	26.46	57	39335	1.089	ng	97
94) 1,2,4-Trichlorobenzene	27.59	180	18307	1.175	ng	98
95) Naphthalene	27.74	128	69383	1.134	ng	97
96) n-Dodecane	27.70	57	41338	1.082	ng	95
97) Hexachlorobutadiene	28.15	225	10594	1.059	ng	98
98) Cyclohexanone	22.34	55	21416	0.805	ng	99
99) tert-Butylbenzene	24.83	119	51340	1.000	ng	98
100) n-Butylbenzene	25.86	91	61539	1.058	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	249215	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1269404	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	640609	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	541276	23.796	ng	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
57) Toluene-d8 (SS2)	18.86	98	1393939	25.104	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
73) Bromofluorobenzene (SS3)	23.24	174	369692	26.072	ng	0.00
Spiked Amount	25.000		Recovery	=	104.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	89432	4.636	ng	99
3) Dichlorodifluoromethan...	4.84	85	140828	4.390	ng	99
4) Chloromethane	5.15	50	84961	4.191	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	54919	4.370	ng	97
6) Vinyl Chloride	5.59	62	89033	4.491	ng	100
7) 1,3-Butadiene	5.87	54	73562	5.181	ng	98
8) Bromomethane	6.36	94	52677	5.786	ng	99
9) Chloroethane	6.69	64	52005	4.770	ng	95
10) Ethanol	7.11	45	258014	21.785	ng	100
11) Acetonitrile	7.37	41	150692	3.611	ng	99
12) Acrolein	7.57	56	44402	3.876	ng	99
13) Acetone	7.84	58	278483	20.568	ng	96
14) Trichlorofluoromethane	8.02	101	123504	4.435	ng	99
15) 2-Propanol (Isopropanol)	8.35	45	301287	6.731	ng	97
16) Acrylonitrile	8.57	53	100540	5.104	ng	100
17) 1,1-Dichloroethene	9.04	96	62068	4.946	ng	93
18) 2-Methyl-2-Propanol (t...	9.31	59	359931	9.384	ng	95
19) Methylene Chloride	9.24	84	65696	4.508	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	129259	5.493	ng	92
21) Trichlorotrifluoroethane	9.68	151	47871	4.683	ng	96
22) Carbon Disulfide	9.63	76	243057	4.846	ng	100
23) trans-1,2-Dichloroethene	10.68	61	107824	4.959	ng	99
24) 1,1-Dichloroethane	10.99	63	124688	4.604	ng	99
25) Methyl tert-Butyl Ether	11.23	73	197911	4.509	ng	99
26) Vinyl Acetate	11.28	86	44312	15.052	ng	# 69
27) 2-Butanone (MEK)	11.71	72	50182	5.115	ng	# 92
28) cis-1,2-Dichloroethene	12.24	61	102666	4.883	ng	99
29) Diisopropyl Ether	12.68	87	64732	5.444	ng	# 1
30) Ethyl Acetate	12.71	61	52338	10.281	ng	97
31) n-Hexane	12.58	57	123098	4.588	ng	98

609

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	113521	4.612	ng	99
34) Tetrahydrofuran (THF)	13.46	72	47151	4.075	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	77046	4.234	ng	99
36) 1,2-Dichloroethane	13.80	62	97747	4.510	ng	97
38) 1,1,1-Trichloroethane	14.18	97	104481	4.435	ng	98
39) Isopropyl Acetate	14.86	61	94088	9.685	ng	# 84
40) 1-Butanol	14.92	56	150422	9.077	ng	82
41) Benzene	14.88	78	266073	4.281	ng	99
42) Carbon Tetrachloride	15.11	117	92233	4.673	ng	99
43) Cyclohexane	15.30	84	209843	9.557	ng	98
44) tert-Amyl Methyl Ether	15.89	73	204750	4.496	ng	100
45) 1,2-Dichloropropane	16.11	63	69671	4.617	ng	100
46) Bromodichloromethane	16.38	83	93085	4.854	ng	99
47) Trichloroethene	16.45	130	62720	4.839	ng	98
48) 1,4-Dioxane	16.56	88	55737	5.001	ng	# 73
49) 2,2,4-Trimethylpentane...	16.52	57	325558	4.752	ng	96
50) Methyl Methacrylate	16.79	100	53436	10.131	ng	96
51) n-Heptane	16.88	71	74028	4.561	ng	98
52) cis-1,3-Dichloropropene	17.65	75	108231	4.619	ng	99
53) 4-Methyl-2-pentanone	17.79	58	70345	5.011	ng	97
54) trans-1,3-Dichloropropene	18.36	75	114007	5.321	ng	99
55) 1,1,2-Trichloroethane	18.61	97	60472	4.636	ng	100
58) Toluene	18.99	91	270680	4.712	ng	99
59) 2-Hexanone	19.39	43	192690	4.989	ng	99
60) Dibromochloromethane	19.53	129	70986	5.272	ng	98
61) 1,2-Dibromoethane	19.87	107	69321	4.990	ng	98
62) n-Butyl Acetate	20.20	43	218998	4.994	ng	100
63) n-Octane	20.28	57	67291	4.644	ng	97
64) Tetrachloroethene	20.47	166	59893	4.573	ng	98
65) Chlorobenzene	21.35	112	168463	4.853	ng	99
66) Ethylbenzene	21.82	91	312047	4.800	ng	100
67) m- & p-Xylenes	22.04	91	487391	9.302	ng	# 30
68) Bromoform	22.15	173	54281	4.930	ng	100
69) Styrene	22.51	104	183096	5.011	ng	97
70) o-Xylene	22.66	91	252696	4.794	ng	98
71) n-Nonane	22.91	43	166786	4.529	ng	98
72) 1,1,2,2-Tetrachloroethane	22.63	83	115016	4.963	ng	100
74) Cumene	23.41	105	304404	4.730	ng	99
75) alpha-Pinene	23.90	93	157830	4.632	ng	98
76) n-Propylbenzene	24.05	91	393830	4.766	ng	99
77) 3-Ethyltoluene	24.18	105	312687	5.133	ng	99
78) 4-Ethyltoluene	24.23	105	300258	4.865	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	256223	4.871	ng	100

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060918.D
 Acq On : 6 Aug 2009 14:38
 Operator : WA
 Sample : 5.0ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310903
 ALS Vial : 4 Sample Multiplier: 1

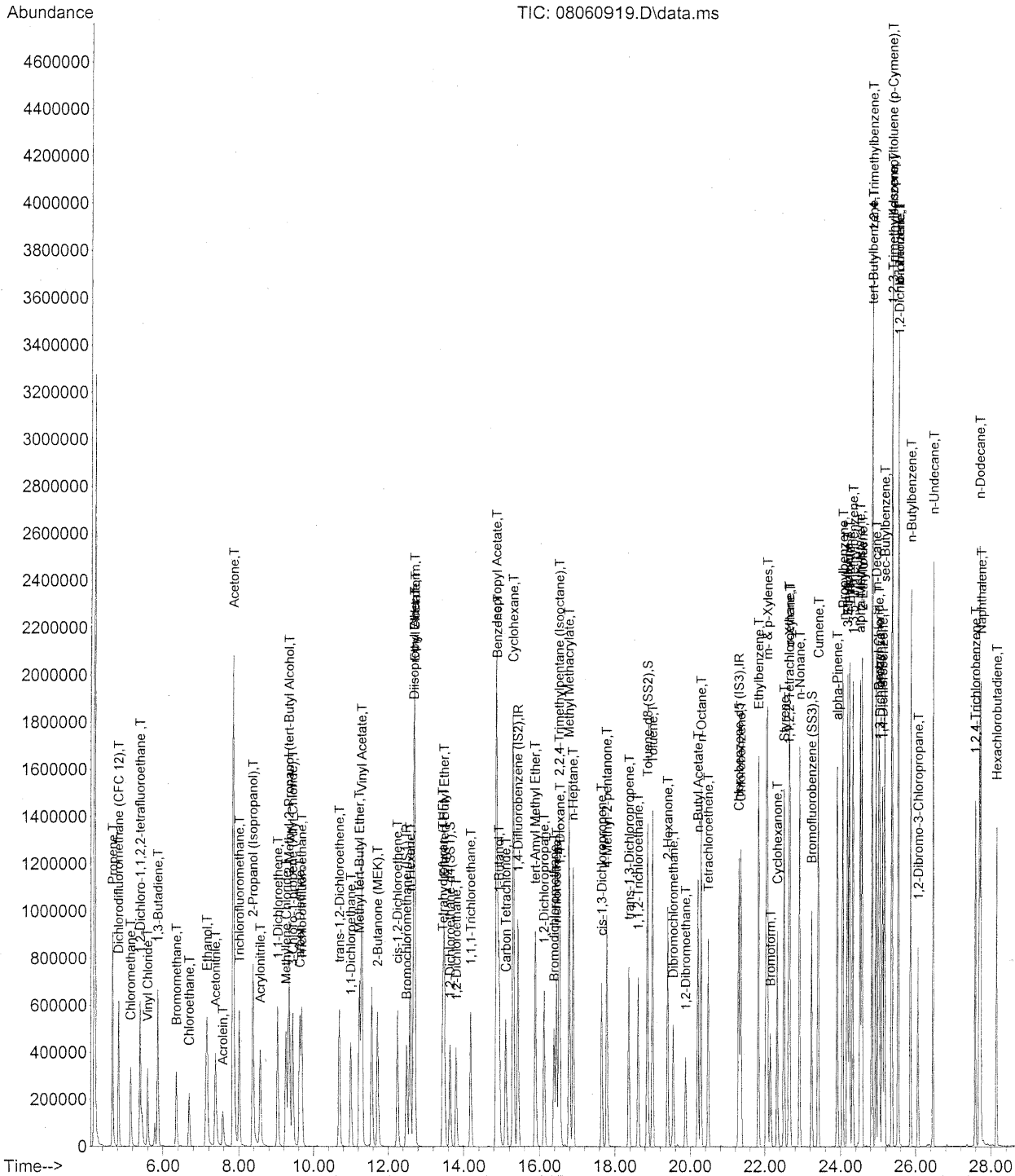
Quant Time: Aug 06 15:06:30 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	137848	5.174	ng	98
81) 2-Ethyltoluene	24.56	105	305024	4.773	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	257449	4.905	ng	99
83) n-Decane	24.94	57	171862	4.941	ng	99
84) Benzyl Chloride	25.01	91	258427	5.717	ng	99
85) 1,3-Dichlorobenzene	25.03	146	131275	5.227	ng	97
86) 1,4-Dichlorobenzene	25.11	146	133153	4.993	ng	100
87) sec-Butylbenzene	25.17	105	345740	4.915	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	305963	4.889	ng	98
89) 1,2,3-Trimethylbenzene	25.36	105	265359	4.975	ng	98
90) 1,2-Dichlorobenzene	25.53	146	123261	5.077	ng	100
91) d-Limonene	25.53	68	113934	5.005	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	47123	6.066	ng	96
93) n-Undecane	26.46	57	184521	5.189	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	91111	5.938	ng	99
95) Naphthalene	27.73	128	353074	5.862	ng	100
96) n-Dodecane	27.70	57	188594	5.016	ng	99
97) Hexachlorobutadiene	28.15	225	51370	5.213	ng	100
98) Cyclohexanone	22.33	55	103876	3.963	ng	99
99) tert-Butylbenzene	24.83	119	245043	4.847	ng	99
100) n-Butylbenzene	25.86	91	301669	5.270	ng	100

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	207495	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1056146	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	528644	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	447374	23.622	ng	0.00
Spiked Amount	25.000		Recovery	=	94.48%	
57) Toluene-d8 (SS2)	18.86	98	1150944	25.118	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.24	174	306340	26.180	ng	0.00
Spiked Amount	25.000		Recovery	=	104.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	397150	24.727	ng	100
3) Dichlorodifluoromethan...	4.83	85	635550	23.796	ng	99
4) Chloromethane	5.15	50	453590	26.875	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	260375	24.887	ng	98
6) Vinyl Chloride	5.59	62	431248	26.129	ng	98
7) 1,3-Butadiene	5.87	54	374047	31.641	ng	98
8) Bromomethane	6.35	94	273614	36.099	ng	99
9) Chloroethane	6.69	64	246290	27.134	ng	97
10) Ethanol	7.15	45	1215448	123.257	ng	100
11) Acetonitrile	7.38	41	708708	20.399	ng	100
12) Acrolein	7.57	56	210551	22.077	ng	98
13) Acetone	7.85	58	1259513	111.728	ng	97
14) Trichlorofluoromethane	8.01	101	614629	26.506	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1639705	43.999	ng	99
16) Acrylonitrile	8.57	53	497820	30.352	ng	99
17) 1,1-Dichloroethene	9.03	96	310280	29.696	ng	93
18) 2-Methyl-2-Propanol (t...	9.34	59	1766301	55.312	ng	98
19) Methylene Chloride	9.26	84	317656	26.180	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	596921	30.468	ng	99
21) Trichlorotrifluoroethane	9.68	151	242878	28.535	ng	100
22) Carbon Disulfide	9.63	76	1185465	28.386	ng	98
23) trans-1,2-Dichloroethene	10.69	61	536758	29.651	ng	99
24) 1,1-Dichloroethane	10.99	63	626914	27.802	ng	100
25) Methyl tert-Butyl Ether	11.23	73	988001	27.035	ng	99
26) Vinyl Acetate	11.29	86	232023	94.663	ng	# 94
27) 2-Butanone (MEK)	11.71	72	244752	29.962	ng	99
28) cis-1,2-Dichloroethene	12.25	61	508498	29.050	ng	99
29) Diisopropyl Ether	12.68	87	316984	32.016	ng	# 1
30) Ethyl Acetate	12.71	61	248217	58.562	ng	99
31) n-Hexane	12.59	57	594541	26.616	ng	99

613

DA 8/6/09

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	541847	26.440	ng	100
34) Tetrahydrofuran (THF)	13.45	72	234041	24.295	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	375069	24.759	ng	99
36) 1,2-Dichloroethane	13.80	62	490990	27.208	ng	98
38) 1,1,1-Trichloroethane	14.19	97	521245	26.595	ng	98
39) Isopropyl Acetate	14.87	61	456771	56.511	ng	# 86
40) 1-Butanol	14.93	56	723046	52.443	ng	80
41) Benzene	14.88	78	1276338	24.685	ng	99
42) Carbon Tetrachloride	15.11	117	465095	28.320	ng	98
43) Cyclohexane	15.31	84	1000496	54.769	ng	99
44) tert-Amyl Methyl Ether	15.89	73	989673	26.122	ng	99
45) 1,2-Dichloropropane	16.12	63	347675	27.694	ng	99
46) Bromodichloromethane	16.39	83	465949	29.201	ng	98
47) Trichloroethene	16.45	130	316970	29.394	ng	99
48) 1,4-Dioxane	16.55	88	266033	28.691	ng	# 71
49) 2,2,4-Trimethylpentane...	16.53	57	1568435	27.515	ng	96
50) Methyl Methacrylate	16.79	100	266630	60.760	ng	100
51) n-Heptane	16.89	71	366787	27.159	ng	99
52) cis-1,3-Dichloropropene	17.66	75	541590	27.780	ng	99
53) 4-Methyl-2-pentanone	17.79	58	350647	30.023	ng	98
54) trans-1,3-Dichloropropene	18.37	75	568419	31.884	ng	98
55) 1,1,2-Trichloroethane	18.61	97	299989	27.639	ng	98
58) Toluene	18.99	91	1326296	27.980	ng	99
59) 2-Hexanone	19.39	43	922020	28.929	ng	99
60) Dibromochloromethane	19.54	129	363307	32.695	ng	99
61) 1,2-Dibromoethane	19.87	107	346018	30.184	ng	99
62) n-Butyl Acetate	20.20	43	1069244	29.546	ng	99
63) n-Octane	20.28	57	322871	27.000	ng	96
64) Tetrachloroethene	20.47	166	306228	28.331	ng	99
65) Chlorobenzene	21.35	112	830316	28.987	ng	100
66) Ethylbenzene	21.83	91	1510329	28.156	ng	99
67) m- & p-Xylenes	22.06	91	2364755	54.690	ng	99
68) Bromoform	22.16	173	284337	31.297	ng	99
69) Styrene	22.52	104	922923	30.607	ng	99
70) o-Xylene	22.66	91	1212719	27.879	ng	98
71) n-Nonane	22.92	43	783849	25.792	ng	99
72) 1,1,2,2-Tetrachloroethane	22.64	83	553928	28.964	ng	100
74) Cumene	23.41	105	1485450	27.968	ng	99
75) alpha-Pinene	23.91	93	765795	27.237	ng	100
76) n-Propylbenzene	24.05	91	1894473	27.785	ng	100
77) 3-Ethyltoluene	24.18	105	1496922	29.775	ng	100
78) 4-Ethyltoluene	24.23	105	1487030	29.196	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1242874	28.633	ng	99

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060919.D
 Acq On : 6 Aug 2009 15:18
 Operator : WA
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

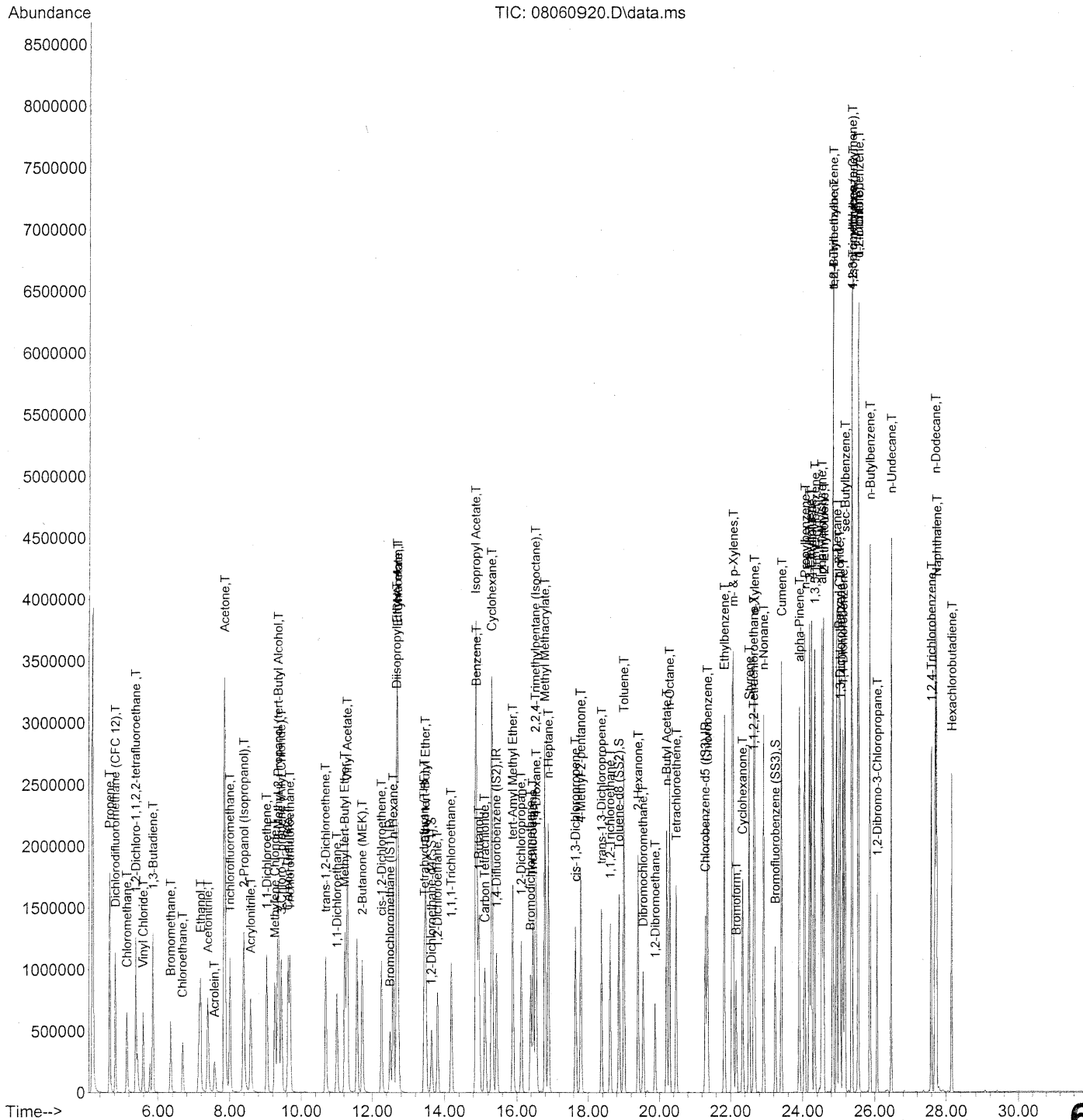
Quant Time: Aug 06 16:11:17 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	682695	31.049	ng	99
81) 2-Ethyltoluene	24.57	105	1482611	28.115	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	1242291	28.679	ng	100
83) n-Decane	24.94	57	804056	28.011	ng	100
84) Benzyl Chloride	25.01	91	1277690	34.250	ng	100
85) 1,3-Dichlorobenzene	25.03	146	652647	31.489	ng	97
86) 1,4-Dichlorobenzene	25.11	146	668115	30.359	ng	99
87) sec-Butylbenzene	25.17	105	1672528	28.809	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1479621	28.648	ng	100
89) 1,2,3-Trimethylbenzene	25.36	105	1274600	28.960	ng	97
90) 1,2-Dichlorobenzene	25.54	146	611625	30.525	ng	99
91) d-Limonene	25.53	68	550190	29.286	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	236587	36.905	ng	94
93) n-Undecane	26.46	57	859590	29.294	ng	100
94) 1,2,4-Trichlorobenzene	27.59	180	463024	36.569	ng	100
95) Naphthalene	27.74	128	1702428	34.252	ng	100
96) n-Dodecane	27.70	57	872418	28.116	ng	99
97) Hexachlorobutadiene	28.15	225	262946	32.338	ng	99
98) Cyclohexanone	22.33	55	505166	23.356	ng	99
99) tert-Butylbenzene	24.83	119	1185720	28.423	ng	99
100) n-Butylbenzene	25.87	91	1445418	30.597	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
Data File : 08060920.D
Acq On : 6 Aug 2009 15:59
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-07200902/S20-07310901
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
Quant Method : J:\MS13\METHODS\R13080609.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 06 07:59:49 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	246064	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1247385	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	628572	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.65	65	527588	23.491	ng	0.01
Spiked Amount	25.000		Recovery	=	93.96%	
57) Toluene-d8 (SS2)	18.86	98	1375416	25.245	ng	0.00
Spiked Amount	25.000		Recovery	=	100.96%	
73) Bromofluorobenzene (SS3)	23.25	174	373273	26.829	ng	0.00
Spiked Amount	25.000		Recovery	=	107.32%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	766697	40.253	ng	99
3) Dichlorodifluoromethan...	4.82	85	1206456	38.091	ng	99
4) Chloromethane	5.14	50	847645	42.351	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	513921	41.422	ng	99
6) Vinyl Chloride	5.59	62	848331	43.343	ng	98
7) 1,3-Butadiene	5.87	54	730169	52.084	ng	99
8) Bromomethane	6.35	94	491871	54.723	ng	99
9) Chloroethane	6.69	64	469575	43.625	ng	97
10) Ethanol	7.18	45	2326754	198.970	ng	100
11) Acetonitrile	7.39	41	1338822	32.495	ng	100
12) Acrolein	7.58	56	402755	35.611	ng	97
13) Acetone	7.86	58	2311019	172.872	ng	95
14) Trichlorofluoromethane	8.01	101	1159734	42.175	ng	100
15) 2-Propanol (Isopropanol)	8.40	45	2875108	65.056	ng	100
16) Acrylonitrile	8.58	53	940966	48.379	ng	98
17) 1,1-Dichloroethene	9.03	96	590850	47.685	ng	92
18) 2-Methyl-2-Propanol (t...	9.35	59	3260768	86.106	ng	99
19) Methylene Chloride	9.26	84	606273	42.136	ng	98
20) 3-Chloro-1-propene (Al...	9.44	41	1134104	48.813	ng	100
21) Trichlorotrifluoroethane	9.68	151	470831	46.646	ng	99
22) Carbon Disulfide	9.63	76	2221081	44.848	ng	98
23) trans-1,2-Dichloroethene	10.69	61	1011038	47.097	ng	98
24) 1,1-Dichloroethane	11.00	63	1184763	44.306	ng	99
25) Methyl tert-Butyl Ether	11.23	73	1897731	43.789	ng	99
26) Vinyl Acetate	11.30	86	408724	140.617	ng	100
27) 2-Butanone (MEK)	11.72	72	462913	47.786	ng	99
28) cis-1,2-Dichloroethene	12.26	61	959785	46.237	ng	98
29) Diisopropyl Ether	12.69	87	594750	50.655	ng	# 1
30) Ethyl Acetate	12.71	61	462477	92.010	ng	99
31) n-Hexane	12.59	57	1123585	42.416	ng	98

617

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.71	83	1005869	41.389	ng	99
34) Tetrahydrofuran (THF)	13.45	72	435280	38.102	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	712110	39.639	ng	97
36) 1,2-Dichloroethane	13.81	62	932796	43.588	ng	98
38) 1,1,1-Trichloroethane	14.19	97	995605	43.010	ng	98
39) Isopropyl Acetate	14.87	61	855760	89.642	ng	# 86
40) 1-Butanol	14.96	56	1373976	84.377	ng	# 79
41) Benzene	14.89	78	2375406	38.898	ng	99
42) Carbon Tetrachloride	15.12	117	885200	45.637	ng	99
43) Cyclohexane	15.31	84	1889680	87.585	ng	98
44) tert-Amyl Methyl Ether	15.89	73	1834473	40.996	ng	99
45) 1,2-Dichloropropane	16.12	63	658137	44.386	ng	99
46) Bromodichloromethane	16.39	83	892711	47.368	ng	99
47) Trichloroethene	16.45	130	608434	47.772	ng	98
48) 1,4-Dioxane	16.55	88	507842	46.373	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	2886330	42.872	ng	97
50) Methyl Methacrylate	16.80	100	522781	100.868	ng	93
51) n-Heptane	16.89	71	684826	42.934	ng	99
52) cis-1,3-Dichloropropene	17.66	75	1039036	45.124	ng	99
53) 4-Methyl-2-pentanone	17.80	58	654840	47.472	ng	99
54) trans-1,3-Dichloropropene	18.37	75	1094561	51.984	ng	99
55) 1,1,2-Trichloroethane	18.61	97	577490	45.049	ng	97
58) Toluene	19.00	91	2525620	44.811	ng	98
59) 2-Hexanone	19.40	43	1735363	45.792	ng	99
60) Dibromochloromethane	19.54	129	703485	53.244	ng	98
61) 1,2-Dibromoethane	19.88	107	661208	48.510	ng	98
62) n-Butyl Acetate	20.20	43	2024198	47.042	ng	99
63) n-Octane	20.28	57	605076	42.555	ng	96
64) Tetrachloroethene	20.48	166	601947	46.837	ng	99
65) Chlorobenzene	21.36	112	1587286	46.604	ng	100
66) Ethylbenzene	21.83	91	2858886	44.823	ng	99
67) m- & p-Xylenes	22.07	91	4460386	86.756	ng	98
68) Bromoform	22.16	173	558777	51.727	ng	99
69) Styrene	22.52	104	1767058	49.286	ng	99
70) o-Xylene	22.66	91	2294449	44.361	ng	97
71) n-Nonane	22.92	43	1444078	39.962	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	1043616	45.894	ng	100
74) Cumene	23.42	105	2823456	44.709	ng	100
75) alpha-Pinene	23.91	93	1462451	43.746	ng	99
76) n-Propylbenzene	24.06	91	3551148	43.802	ng	99
77) 3-Ethyltoluene	24.18	105	2884181	48.248	ng	99
78) 4-Ethyltoluene	24.24	105	2788015	46.037	ng	98
79) 1,3,5-Trimethylbenzene	24.33	105	2362085	45.766	ng	98

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060920.D
 Acq On : 6 Aug 2009 15:59
 Operator : WA
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

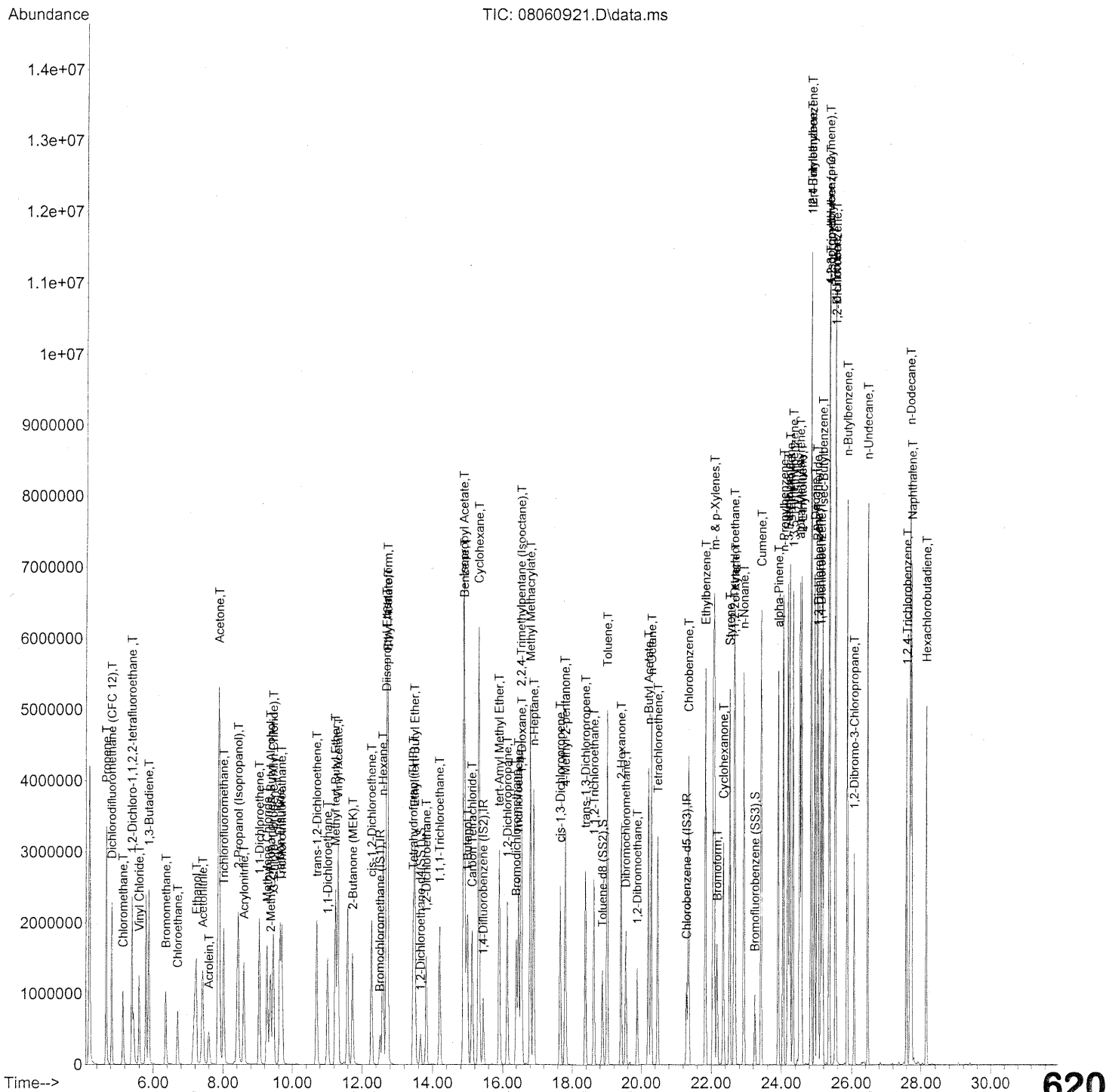
Quant Time: Aug 06 17:00:10 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	1322010	50.567	ng	96
81) 2-Ethyltoluene	24.57	105	2813751	44.875	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	2342546	45.481	ng	99
83) n-Decane	24.94	57	1477979	43.303	ng	99
84) Benzyl Chloride	25.01	91	2418762	54.530	ng	99
85) 1,3-Dichlorobenzene	25.04	146	1268117	51.457	ng	97
86) 1,4-Dichlorobenzene	25.11	146	1304869	49.866	ng	99
87) sec-Butylbenzene	25.17	105	3150159	45.635	ng	99
88) 4-Isopropyltoluene (p-...	25.36	119	2788519	45.407	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	2406323	45.982	ng	97
90) 1,2-Dichlorobenzene	25.54	146	1179498	49.508	ng	100
91) d-Limonene	25.54	68	1035586	46.360	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	460773	60.449	ng	91
93) n-Undecane	26.46	57	1584968	45.428	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	910868	60.503	ng	99
95) Naphthalene	27.74	128	3285610	55.597	ng	99
96) n-Dodecane	27.70	57	1632372	44.244	ng	99
97) Hexachlorobutadiene	28.15	225	522278	54.021	ng	99
98) Cyclohexanone	22.34	55	957787	37.242	ng	98
99) tert-Butylbenzene	24.84	119	2258738	45.537	ng	99
100) n-Butylbenzene	25.87	91	2706705	48.188	ng	99

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.51	130	204063	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1040695	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.30	82	521975	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.66	65	435176	23.365	ng	0.02
Spiked Amount	25.000		Recovery	=	93.44%	
57) Toluene-d8 (SS2)	18.86	98	1136569	25.121	ng	0.00
Spiked Amount	25.000		Recovery	=	100.48%	
73) Bromofluorobenzene (SS3)	23.25	174	310567	26.881	ng	0.00
Spiked Amount	25.000		Recovery	=	107.52%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	1483597	93.924	ng	99
3) Dichlorodifluoromethan...	4.83	85	2379344	90.583	ng	99
4) Chloromethane	5.15	50	1392812	83.913	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1008644	98.029	ng	98
6) Vinyl Chloride	5.59	62	1677099	103.322	ng	98
7) 1,3-Butadiene	5.87	54	1425350	122.599	ng	98
8) Bromomethane	6.36	94	914093	122.628	ng	99
9) Chloroethane	6.70	64	916786	102.702	ng	98
10) Ethanol	7.23	45	4377562	451.390	ng	100
11) Acetonitrile	7.42	41	2583362	75.607	ng	100
12) Acrolein	7.59	56	784600	83.651	ng	96
13) Acetone	7.89	58	4244786	382.878	ng	87
14) Trichlorofluoromethane	8.02	101	2210255	96.921	ng	99
15) 2-Propanol (Isopropanol)	8.43	45	5177262	141.260	ng	100
16) Acrylonitrile	8.60	53	1796721	111.390	ng	97
17) 1,1-Dichloroethene	9.04	96	1160669	112.953	ng	90
18) 2-Methyl-2-Propanol (t...	9.37	59	2345913	74.698	ng	100
19) Methylene Chloride	9.27	84	1184348	99.253	ng	96
20) 3-Chloro-1-propene (Al...	9.45	41	2146772	111.416	ng	98
21) Trichlorotrifluoroethane	9.68	151	916963	109.542	ng	96
22) Carbon Disulfide	9.63	76	4236854	103.158	ng	98
23) trans-1,2-Dichloroethene	10.70	61	1929408	108.376	ng	96
24) 1,1-Dichloroethane	11.01	63	2255773	101.720	ng	100
25) Methyl tert-Butyl Ether	11.23	73	3661547	101.878	ng	99
26) Vinyl Acetate	11.31	86	640109	265.549	ng	# 93
27) 2-Butanone (MEK)	11.73	72	687553	85.584	ng	97
28) cis-1,2-Dichloroethene	12.27	61	1822976	105.896	ng	97
29) Diisopropyl Ether	12.70	87	1137931	116.867	ng	# 1
30) Ethyl Acetate	12.73	61	853386	204.726	ng	100
31) n-Hexane	12.59	57	2161223	98.379	ng	621

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	1880936	93.325	ng	100
34) Tetrahydrofuran (THF)	13.45	72	810456	85.544	ng	98
35) Ethyl tert-Butyl Ether	13.50	87	1363054	91.490	ng	96
36) 1,2-Dichloroethane	13.82	62	1754433	98.856	ng	97
38) 1,1,1-Trichloroethane	14.20	97	1846555	95.614	ng	98
39) Isopropyl Acetate	14.88	61	1588242	199.413	ng	95
40) 1-Butanol	14.99	56	2511497	184.865	ng	# 77
41) Benzene	14.90	78	4433680	87.021	ng	100
42) Carbon Tetrachloride	15.12	117	1694678	104.722	ng	99
43) Cyclohexane	15.32	84	3585086	199.167	ng	97
44) tert-Amyl Methyl Ether	15.90	73	3367820	90.211	ng	99
45) 1,2-Dichloropropane	16.13	63	1250257	101.067	ng	99
46) Bromodichloromethane	16.40	83	1669484	106.178	ng	99
47) Trichloroethene	16.47	130	1192304	112.208	ng	99
48) 1,4-Dioxane	16.56	88	940853	102.975	ng	# 76
49) 2,2,4-Trimethylpentane...	16.54	57	5320898	94.731	ng	97
50) Methyl Methacrylate	16.81	100	995395	230.200	ng	# 90
51) n-Heptane	16.91	71	1295628	97.360	ng	98
52) cis-1,3-Dichloropropene	17.67	75	1960789	102.068	ng	99
53) 4-Methyl-2-pentanone	17.80	58	1240802	107.815	ng	100
54) trans-1,3-Dichloropropene	18.38	75	2068198	117.733	ng	99
55) 1,1,2-Trichloroethane	18.62	97	1112067	103.980	ng	96
58) Toluene	19.00	91	4768847	101.891	ng	98
59) 2-Hexanone	19.41	43	3205631	101.863	ng	97
60) Dibromochloromethane	19.54	129	1359408	123.901	ng	98
61) 1,2-Dibromoethane	19.88	107	1277917	112.901	ng	99
62) n-Butyl Acetate	20.21	43	4015589	112.379	ng	98
63) n-Octane	20.29	57	1130161	95.715	ng	95
64) Tetrachloroethene	20.48	166	1184412	110.979	ng	99
65) Chlorobenzene	21.36	112	3039056	107.452	ng	100
66) Ethylbenzene	21.84	91	5357238	101.146	ng	97
67) m- & p-Xylenes	22.08	91	8307914	194.593	ng	96
68) Bromoform	22.17	173	1108833	123.609	ng	99
69) Styrene	22.53	104	3401279	114.239	ng	98
70) o-Xylene	22.67	91	4304194	100.212	ng	96
71) n-Nonane	22.93	43	2656292	88.519	ng	97
72) 1,1,2,2-Tetrachloroethane	22.65	83	1997850	105.799	ng	100
74) Cumene	23.42	105	5281477	100.712	ng	99
75) alpha-Pinene	23.91	93	2764527	99.583	ng	98
76) n-Propylbenzene	24.06	91	6477041	96.207	ng	97
77) 3-Ethyltoluene	24.19	105	5409334	108.970	ng	98
78) 4-Ethyltoluene	24.25	105	5142381	102.255	ng	95
79) 1,3,5-Trimethylbenzene	24.34	105	4445745	103.729	ng	95

622

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060921.D
 Acq On : 6 Aug 2009 16:39
 Operator : WA
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-07200902/S20-07310901
 ALS Vial : 4 Sample Multiplier: 1

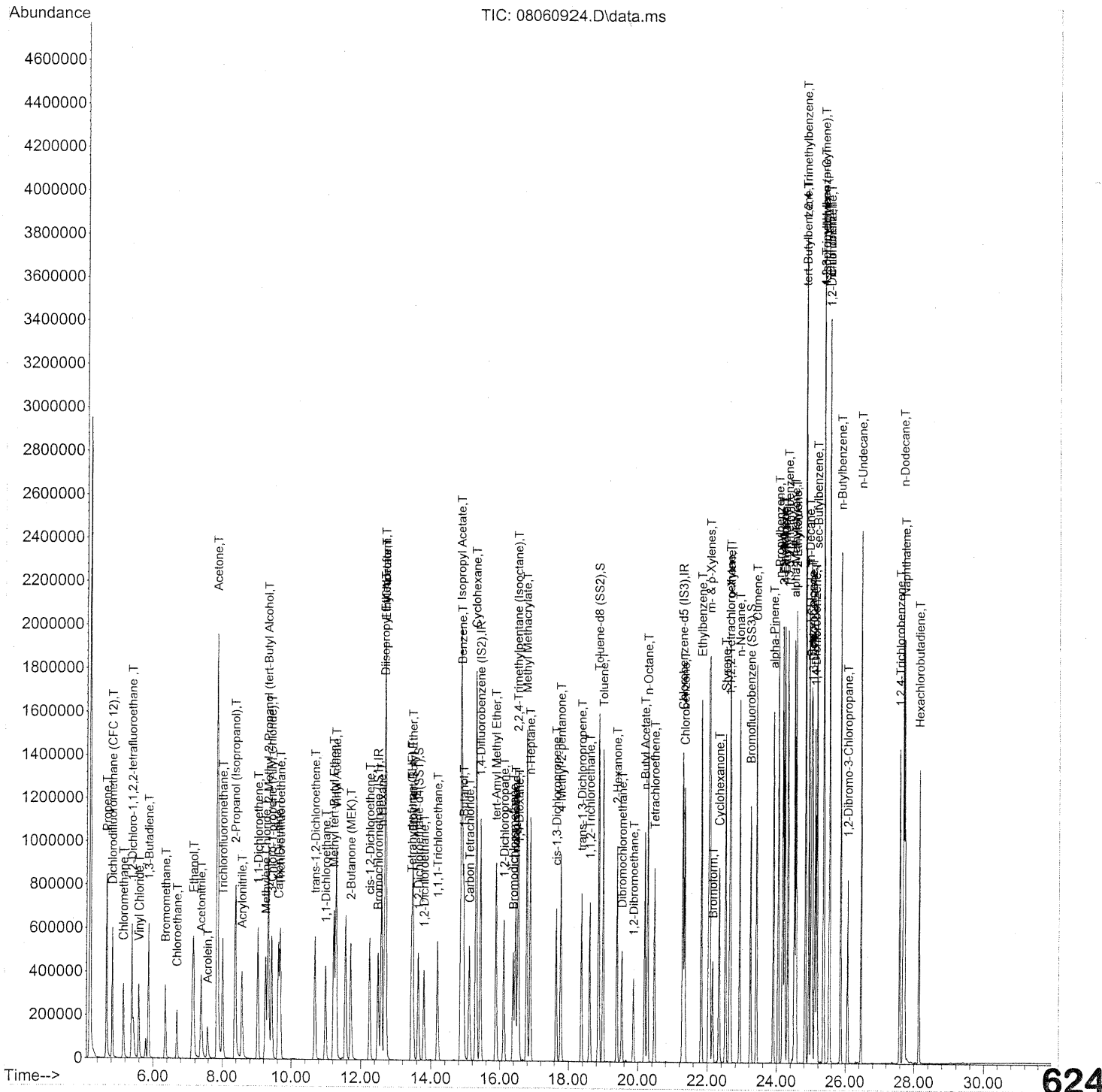
Quant Time: Aug 06 17:08:49 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 07:59:49 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.53	118	2536487	116.834	ng	96
81) 2-Ethyltoluene	24.58	105	5229998	100.443	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	4275494	99.962	ng	98
83) n-Decane	24.95	57	2704263	95.412	ng	98
84) Benzyl Chloride	25.02	91	4499020	122.142	ng	97
85) 1,3-Dichlorobenzene	25.05	146	2490794	121.712	ng	97
86) 1,4-Dichlorobenzene	25.13	146	2542028	116.984	ng	98
87) sec-Butylbenzene	25.18	105	5783982	100.902	ng	98
88) 4-Isopropyltoluene (p-...	25.37	119	5010569	98.251	ng	99
89) 1,2,3-Trimethylbenzene	25.37	105	4359650	100.320	ng	95
90) 1,2-Dichlorobenzene	25.55	146	2206686	111.538	ng	100
91) d-Limonene	25.54	68	1890339	101.906	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	907634	143.389	ng	86
93) n-Undecane	26.47	57	2880684	99.426	ng	99
94) 1,2,4-Trichlorobenzene	27.60	180	1811250	144.878	ng	100
95) Naphthalene	27.74	128	6139171	125.097	ng	98
96) n-Dodecane	27.70	57	2961251	96.654	ng	98
97) Hexachlorobutadiene	28.15	225	1052824	131.135	ng	99
98) Cyclohexanone	22.35	55	1779789	83.337	ng	98
99) tert-Butylbenzene	24.85	119	4145655	100.646	ng	98
100) n-Butylbenzene	25.87	91	4947974	106.080	ng	97

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

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	238664	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1224547	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	614774	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	510896	24.629	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.52%	
57) Toluene-d8 (SS2)	18.86	98	1345950	25.056	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	
73) Bromofluorobenzene (SS3)	23.24	174	365031	25.768	ng	0.00
Spiked Amount	25.000		Recovery	=	103.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	372783	22.762	ng	99
3) Dichlorodifluoromethan...	4.83	85	610303	22.800	ng	99
4) Chloromethane	5.15	50	470357	26.153	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	266041	24.462	ng	98
6) Vinyl Chloride	5.59	62	440187	25.475	ng	98
7) 1,3-Butadiene	5.87	54	341677	27.589	ng	98
8) Bromomethane	6.35	94	287643	27.346	ng	99
9) Chloroethane	6.69	64	244762	24.371	ng	98
10) Ethanol	7.15	45	1296320	124.871	ng	100
11) Acetonitrile	7.38	41	687211	22.604	ng	100
12) Acrolein	7.58	56	203458	25.747	ng	98
13) Acetone	7.85	58	1224977	125.059	ng	98
14) Trichlorofluoromethane	8.01	101	586848	24.249	ng	100
15) 2-Propanol (Isopropanol)	8.38	45	1711755	44.469	ng	100
16) Acrylonitrile	8.57	53	479431	27.089	ng	99
17) 1,1-Dichloroethene	9.03	96	310330	27.616	ng	92
18) 2-Methyl-2-Propanol (t...	9.33	59	1753114	51.311	ng	98
19) Methylene Chloride	9.26	84	314029	23.873	ng	98
20) 3-Chloro-1-propene (Al...	9.43	41	592052	23.348	ng	99
21) Trichlorotrifluoroethane	9.68	151	249618	28.368	ng	98
22) Carbon Disulfide	9.63	76	1135664	24.487	ng	99
23) trans-1,2-Dichloroethene	10.69	61	514272	25.864	ng	97
24) 1,1-Dichloroethane	11.00	63	617936	25.628	ng	99
25) Methyl tert-Butyl Ether	11.23	73	950000	25.633	ng	100
26) Vinyl Acetate	11.30	86	177094	88.842	ng	# 94
27) 2-Butanone (MEK)	11.71	72	233396	26.390	ng	98
28) cis-1,2-Dichloroethene	12.26	61	497051	26.856	ng	98
29) Diisopropyl Ether	12.68	87	313290	26.470	ng	# 1
30) Ethyl Acetate	12.71	61	234351	50.865	ng	100
31) n-Hexane	12.59	57	571801	24.261	ng	99

625

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	539974	26.023	ng	100
34) Tetrahydrofuran (THF)	13.45	72	224798	23.845	ng	97
35) Ethyl tert-Butyl Ether	13.49	87	370406	24.192	ng	97
36) 1,2-Dichloroethane	13.80	62	484412	25.544	ng	98
38) 1,1,1-Trichloroethane	14.19	97	519036	24.987	ng	98
39) Isopropyl Acetate	14.87	61	451344	49.686	ng	# 86
40) 1-Butanol	14.94	56	736605	46.349	ng	81
41) Benzene	14.89	78	1265289	23.502	ng	99
42) Carbon Tetrachloride	15.11	117	450418	26.249	ng	100
43) Cyclohexane	15.31	84	972612	49.322	ng	98
44) tert-Amyl Methyl Ether	15.89	73	971883	24.038	ng	100
45) 1,2-Dichloropropane	16.12	63	344710	25.493	ng	100
46) Bromodichloromethane	16.39	83	451868	25.469	ng	99
47) Trichloroethene	16.45	130	316605	26.073	ng	98
48) 1,4-Dioxane	16.55	88	267355	25.984	ng	# 75
49) 2,2,4-Trimethylpentane...	16.53	57	1523182	24.019	ng	97
50) Methyl Methacrylate	16.79	100	272103	54.901	ng	95
51) n-Heptane	16.89	71	350866	24.283	ng	99
52) cis-1,3-Dichloropropene	17.66	75	537674	23.993	ng	99
53) 4-Methyl-2-pentanone	17.79	58	336616	26.015	ng	99
54) trans-1,3-Dichloropropene	18.37	75	569561	26.731	ng	99
55) 1,1,2-Trichloroethane	18.61	97	303093	25.641	ng	97
58) Toluene	18.99	91	1339186	25.367	ng	99
59) 2-Hexanone	19.39	43	883623	25.170	ng	98
60) Dibromochloromethane	19.54	129	352845	28.249	ng	98
61) 1,2-Dibromoethane	19.87	107	345699	26.105	ng	98
62) n-Butyl Acetate	20.20	43	981251	23.714	ng	100
63) n-Octane	20.28	57	319723	25.050	ng	97
64) Tetrachloroethene	20.48	166	313916	25.696	ng	99
65) Chlorobenzene	21.35	112	837660	25.646	ng	100
66) Ethylbenzene	21.83	91	1521202	25.207	ng	99
67) m- & p-Xylenes	22.07	91	2387430	48.904	ng	99
68) Bromoform	22.16	173	274178	26.436	ng	99
69) Styrene	22.52	104	931476	26.398	ng	100
70) o-Xylene	22.66	91	1225251	25.032	ng	98
71) n-Nonane	22.92	43	765549	23.539	ng	98
72) 1,1,2,2-Tetrachloroethane	22.64	83	551441	25.386	ng	100
74) Cumene	23.41	105	1481888	23.968	ng	99
75) alpha-Pinene	23.91	93	760032	23.981	ng	100
76) n-Propylbenzene	24.05	91	1878570	24.170	ng	100
77) 3-Ethyltoluene	24.18	105	1492441	25.257	ng	99
78) 4-Ethyltoluene	24.23	105	1464128	25.572	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1255212	25.994	ng	96

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060924.D
 Acq On : 6 Aug 2009 18:51
 Operator : WA
 Sample : 25ng TO-15 ICV STD
 Misc : S20-07200902/S20-07240917
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 06 19:33:01 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	680016	26.303	ng	97
81) 2-Ethyltoluene	24.57	105	1474596	24.747	ng	100
82) 1,2,4-Trimethylbenzene	24.84	105	1248319	25.349	ng	100
83) n-Decane	24.94	57	783579	24.473	ng	99
84) Benzyl Chloride	25.01	91	1232630	26.703	ng	100
85) 1,3-Dichlorobenzene	25.03	146	665342	26.696	ng	98
86) 1,4-Dichlorobenzene	25.11	146	674734	25.391	ng	98
87) sec-Butylbenzene	25.17	105	1664439	25.020	ng	100
88) 4-Isopropyltoluene (p-...	25.36	119	1472106	24.816	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1264769	25.211	ng	97
90) 1,2-Dichlorobenzene	25.54	146	618612	26.180	ng	100
91) d-Limonene	25.53	68	540824	25.826	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.07	157	235275	28.950	ng	92
93) n-Undecane	26.46	57	834523	24.499	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	459074	28.256	ng	99
95) Naphthalene	27.74	128	1677315	25.080	ng	100
96) n-Dodecane	27.70	57	837508	21.164	ng	99
97) Hexachlorobutadiene	28.15	225	258900	25.054	ng	99
98) Cyclohexanone	22.34	55	491779	22.484	ng	98
99) tert-Butylbenzene	24.83	119	1186643	24.898	ng	99
100) n-Butylbenzene	25.87	91	1423055	25.944	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D Acq. Method File: TO15.M
 Data File Path: J:\MS13\DATA\2009_08\06\ Name: 25ng TO-15 ICV STD
 Operator: WA Misc Info: S20-07200902/S20-07240917
 Date Acquired: 8/6/09 18:51 Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.67	22.8	26.3	86.7	70	130	*
3)	Dichlorodifluoromethane (CFC)	4.83	22.8	26.0	87.7	70	130	*
4)	Chloromethane	5.15	26.2	25.0	104.8	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.40	24.5	26.0	94.2	70	130	*
6)	Vinyl Chloride	5.60	25.5	25.3	100.8	70	130	*
7)	1,3-Butadiene	5.87	27.6	26.8	103.0	70	130	*
8)	Bromomethane	6.35	27.3	25.8	105.8	70	130	*
9)	Chloroethane	6.69	24.4	25.5	95.7	70	130	*
10)	Ethanol	7.15	124.9	130.0	96.1	70	130	*
11)	Acetonitrile	7.38	22.6	26.0	86.9	70	130	*
12)	Acrolein	7.58	25.7	26.3	97.7	70	130	*
13)	Acetone	7.85	125.1	132.0	94.8	70	130	*
14)	Trichlorofluoromethane	8.01	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.38	44.5	48.0	92.7	70	130	*
16)	Acrylonitrile	8.57	27.1	25.8	105.0	70	130	*
17)	1,1-Dichloroethene	9.03	27.6	27.5	100.4	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.33	51.3	50.0	102.6	70	130	*
19)	Methylene Chloride	9.26	23.9	26.8	89.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.43	23.3	27.0	86.3	70	130	*
21)	Trichlorotrifluoroethane	9.68	28.4	27.5	103.3	70	130	*
22)	Carbon Disulfide	9.63	24.5	26.0	94.2	70	130	*
23)	trans-1,2-Dichloroethene	10.69	25.9	25.5	101.6	70	130	*
24)	1,1-Dichloroethane	11.00	25.6	26.5	96.6	70	130	*
25)	Methyl tert-Butyl Ether	11.23	25.6	26.3	97.3	70	130	*
26)	Vinyl Acetate	11.30	88.8	126.0	70.5	70	130	*
27)	2-Butanone (MEK)	11.71	26.4	26.8	98.5	70	130	*
28)	cis-1,2-Dichloroethene	12.26	26.9	27.0	99.6	70	130	*
29)	Diisopropyl Ether	12.68	26.5	26.5	100.0	70	130	*
30)	Ethyl Acetate	12.71	50.9	52.0	97.9	70	130	*
31)	n-Hexane	12.59	24.3	26.0	93.5	70	130	*
32)	Chloroform	12.70	26.0	27.5	94.5	70	130	*
34)	Tetrahydrofuran (THF)	13.45	23.8	26.5	89.8	70	130	*
35)	Ethyl tert-Butyl Ether	13.49	24.2	25.5	94.9	70	130	*
36)	1,2-Dichloroethane	13.80	25.5	26.3	97.0	70	130	*
38)	1,1,1-Trichloroethane	14.19	25.0	26.0	96.2	70	130	*
39)	Isopropyl Acetate	14.87	49.7	52.3	95.0	70	130	*
40)	1-Butanol	14.94	46.3	52.8	87.7	70	130	*
41)	Benzene	14.89	23.5	25.8	91.1	70	130	*
42)	Carbon Tetrachloride	15.11	26.2	26.3	99.6	70	130	*
43)	Cyclohexane	15.31	49.3	51.8	95.2	70	130	*
44)	tert-Amyl Methyl Ether	15.89	24.0	25.5	94.1	70	130	*
45)	1,2-Dichloropropane	16.12	25.5	26.0	98.1	70	130	*
46)	Bromodichloromethane	16.39	25.5	26.3	97.0	70	130	*
47)	Trichloroethene	16.45	26.1	25.8	101.2	70	130	*
48)	1,4-Dioxane	16.55	26.0	26.0	100.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.53	24.0	25.8	93.0	70	130	*
50)	Methyl Methacrylate	16.79	54.9	52.8	104.0	70	130	*

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08060924.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\06\

Name: 25ng TO-15 ICV STD

Operator: WA

Misc Info: S20-07200902/S20-07240917

Date Acquired: 8/6/09 18:51

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.89	24.3	25.8	94.2	70	130	*
52)	cis-1,3-Dichloropropene	17.66	24.0	24.5	98.0	70	130	*
53)	4-Methyl-2-pentanone	17.79	26.0	26.8	97.0	70	130	*
54)	trans-1,3-Dichloropropene	18.37	26.7	27.0	98.9	70	130	*
55)	1,1,2-Trichloroethane	18.61	25.6	26.0	98.5	70	130	*
58)	Toluene	18.99	25.4	26.8	94.8	70	130	*
59)	2-Hexanone	19.39	25.2	27.0	93.3	70	130	*
60)	Dibromochloromethane	19.54	28.2	28.3	99.6	70	130	*
61)	1,2-Dibromoethane	19.87	26.1	26.3	99.2	70	130	*
62)	n-Butyl Acetate	20.20	23.7	27.5	86.2	70	130	*
63)	n-Octane	20.28	25.1	26.3	95.4	70	130	*
64)	Tetrachloroethene	20.48	25.7	25.3	101.6	70	130	*
65)	Chlorobenzene	21.35	25.6	26.5	96.6	70	130	*
66)	Ethylbenzene	21.83	25.2	26.3	95.8	70	130	*
67)	m- & p-Xylenes	22.07	48.9	51.5	95.0	70	130	*
68)	Bromoform	22.16	26.4	26.5	99.6	70	130	*
69)	Styrene	22.52	26.4	26.3	100.4	70	130	*
70)	o-Xylene	22.66	25.0	26.0	96.2	70	130	*
71)	n-Nonane	22.92	23.5	25.8	91.1	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.64	25.4	27.0	94.1	70	130	*
74)	Cumene	23.41	24.0	25.3	94.9	70	130	*
75)	alpha-Pinene	23.91	24.0	24.8	96.8	70	130	*
76)	n-Propylbenzene	24.05	24.2	25.3	95.7	70	130	*
77)	3-Ethyltoluene	24.18	25.3	26.3	96.2	70	130	*
78)	4-Ethyltoluene	24.23	25.6	26.3	97.3	70	130	*
79)	1,3,5-Trimethylbenzene	24.33	26.0	26.5	98.1	70	130	*
80)	alpha-Methylstyrene	24.51	26.3	26.0	101.2	70	130	*
81)	2-Ethyltoluene	24.57	24.7	26.0	95.0	70	130	*
82)	1,2,4-Trimethylbenzene	24.84	25.3	25.5	99.2	70	130	*
83)	n-Decane	24.94	24.5	26.3	93.2	70	130	*
84)	Benzyl Chloride	25.01	26.7	26.8	99.6	70	130	*
85)	1,3-Dichlorobenzene	25.03	26.7	26.0	102.7	70	130	*
86)	1,4-Dichlorobenzene	25.11	25.4	26.3	96.6	70	130	*
87)	sec-Butylbenzene	25.17	25.0	25.8	96.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.36	24.8	25.0	99.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.36	25.2	26.0	96.9	70	130	*
90)	1,2-Dichlorobenzene	25.54	26.2	25.8	101.6	70	130	*
91)	d-Limonene	25.53	25.8	26.5	97.4	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.07	28.9	27.0	107.0	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.59	28.3	27.3	103.7	70	130	*
95)	Naphthalene	27.74	25.1	25.0	100.4	70	130	*
96)	n-Dodecane	27.70	21.2	24.3	87.2	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.34	22.5	24.8	90.7	70	130	*
99)	tert-Butylbenzene	24.83	24.9	26.5	94.0	70	130	*
100)	n-Butylbenzene	25.87	25.9	26.5	97.7	70	130	*

* Denotes Passing Criterion

629

DA 8/6/09

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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	118	-0.02
2	T Propene	1.716	1.431	16.6	94	0.00
3	T Dichlorodifluoromethane (CF	2.804	2.444	12.8	99	0.00
4	T Chloromethane	1.884	1.770	6.1	95	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.068	6.2	106	0.00
6	T Vinyl Chloride	1.810	1.673	7.6	96	0.00
7	T 1,3-Butadiene	1.297	1.258	3.0	99	0.00
8	T Bromomethane	1.102	1.174	-6.5	107	-0.01
9	T Chloroethane	1.052	0.931	11.5	94	-0.01
10	T Ethanol	1.087	0.909	16.4	95	-0.11
11	T Acetonitrile	3.185	2.416	24.1	88	-0.05
12	T Acrolein	0.828	0.722	12.8	90	-0.03
13	T Acetone	1.026	0.882	14.0	94	-0.07
14	T Trichlorofluoromethane	2.535	2.341	7.7	98	0.00
15	T 2-Propanol (Isopropanol)	4.032	2.919	27.6	82	-0.10
16	T Acrylonitrile	1.854	1.704	8.1	89	-0.04
17	T 1,1-Dichloroethene	1.177	1.145	2.7	99	-0.01
18	T 2-Methyl-2-Propanol (tert-B	3.579	3.218	10.1	90	-0.09
19	T Methylene Chloride	1.378	1.164	15.5	96	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.656	1.901	28.4	84	-0.02
21	T Trichlorotrifluoroethane	0.922	0.968	-5.0	107	0.00
22	T Carbon Disulfide	4.858	4.439	8.6	98	-0.01
23	T trans-1,2-Dichloroethene	2.083	1.844	11.5	89	-0.02
24	T 1,1-Dichloroethane	2.526	2.214	12.4	91	-0.02
25	T Methyl tert-Butyl Ether	3.882	3.514	9.5	95	-0.05
26	T Vinyl Acetate	0.209	0.249	-19.1	132	-0.03
27	T 2-Butanone (MEK)	0.926	0.854	7.8	94	-0.06
28	T cis-1,2-Dichloroethene	1.939	1.717	11.4	90	-0.02
29	T Diisopropyl Ether	1.240	1.196	3.5	99	-0.04
30	T Ethyl Acetate	0.483	0.460	4.8	97	-0.06
31	T n-Hexane	2.469	2.028	17.9	91	-0.01
32	T Chloroform	2.174	2.062	5.2	100	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	2.173	1.916	11.8	105	-0.02
34	T Tetrahydrofuran (THF)	0.988	0.828	16.2	95	-0.06
35	T Ethyl tert-Butyl Ether	1.604	1.452	9.5	98	-0.04
36	T 1,2-Dichloroethane	1.986	1.733	12.7	91	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	116	-0.02
38	T 1,1,1-Trichloroethane	0.424	0.391	7.8	97	-0.01

631

WA 8/25/09

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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	0.185	0.162	12.4	91	-0.05
40 T	1-Butanol	0.324	0.260	19.8	91	-0.10
41 T	Benzene	1.099	0.942	14.3	96	-0.02
42 T	Carbon Tetrachloride	0.350	0.344	1.7	98	-0.01
43 T	Cyclohexane	0.403	0.371	7.9	98	-0.01
44 T	tert-Amyl Methyl Ether	0.825	0.732	11.3	94	-0.05
45 T	1,2-Dichloropropane	0.276	0.248	10.1	92	-0.02
46 T	Bromodichloromethane	0.362	0.339	6.4	96	-0.02
47 T	Trichloroethene	0.248	0.256	-3.2	105	-0.02
48 T	1,4-Dioxane	0.210	0.202	3.8	100	-0.05
49 T	2,2,4-Trimethylpentane (Iso	1.295	1.108	14.4	90	-0.02
50 T	Methyl Methacrylate	0.101	0.102	-1.0	100	-0.04
51 T	n-Heptane	0.295	0.262	11.2	93	-0.02
52 T	cis-1,3-Dichloropropene	0.458	0.425	7.2	95	-0.02
53 T	4-Methyl-2-pentanone	0.264	0.236	10.6	91	-0.04
54 T	trans-1,3-Dichloropropene	0.435	0.403	7.4	96	-0.02
55 T	1,1,2-Trichloroethane	0.241	0.234	2.9	101	-0.02
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	109	-0.01
57 S	Toluene-d8 (SS2)	2.184	2.281	-4.4	114	-0.01
58 T	Toluene	2.147	2.105	2.0	98	-0.02
59 T	2-Hexanone	1.428	1.262	11.6	86	-0.05
60 T	Dibromochloromethane	0.508	0.564	-11.0	103	-0.01
61 T	1,2-Dibromoethane	0.539	0.577	-7.1	101	-0.02
62 T	n-Butyl Acetate	1.683	1.433	14.9	85	-0.03
63 T	n-Octane	0.519	0.478	7.9	91	-0.02
64 T	Tetrachloroethene	0.497	0.558	-12.3	107	-0.01
65 T	Chlorobenzene	1.328	1.381	-4.0	103	-0.01
66 T	Ethylbenzene	2.454	2.454	0.0	99	-0.01
67 T	m- & p-Xylenes	1.985	1.965	1.0	99	-0.02
68 T	Bromoform	0.422	0.506	-19.9	105	-0.02
69 T	Styrene	1.435	1.509	-5.2	101	-0.02
70 T	o-Xylene	1.990	1.984	0.3	99	-0.02
71 T	n-Nonane	1.323	1.115	15.7	86	-0.01
72 T	1,1,2,2-Tetrachloroethane	0.883	0.905	-2.5	100	-0.02
73 S	Bromofluorobenzene (SS3)	0.576	0.642	-11.5	120	-0.01
74 T	Cumene	2.514	2.548	-1.4	102	-0.02
75 T	alpha-Pinene	1.289	1.301	-0.9	99	-0.01
76 T	n-Propylbenzene	3.161	3.197	-1.1	100	-0.01

632

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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%

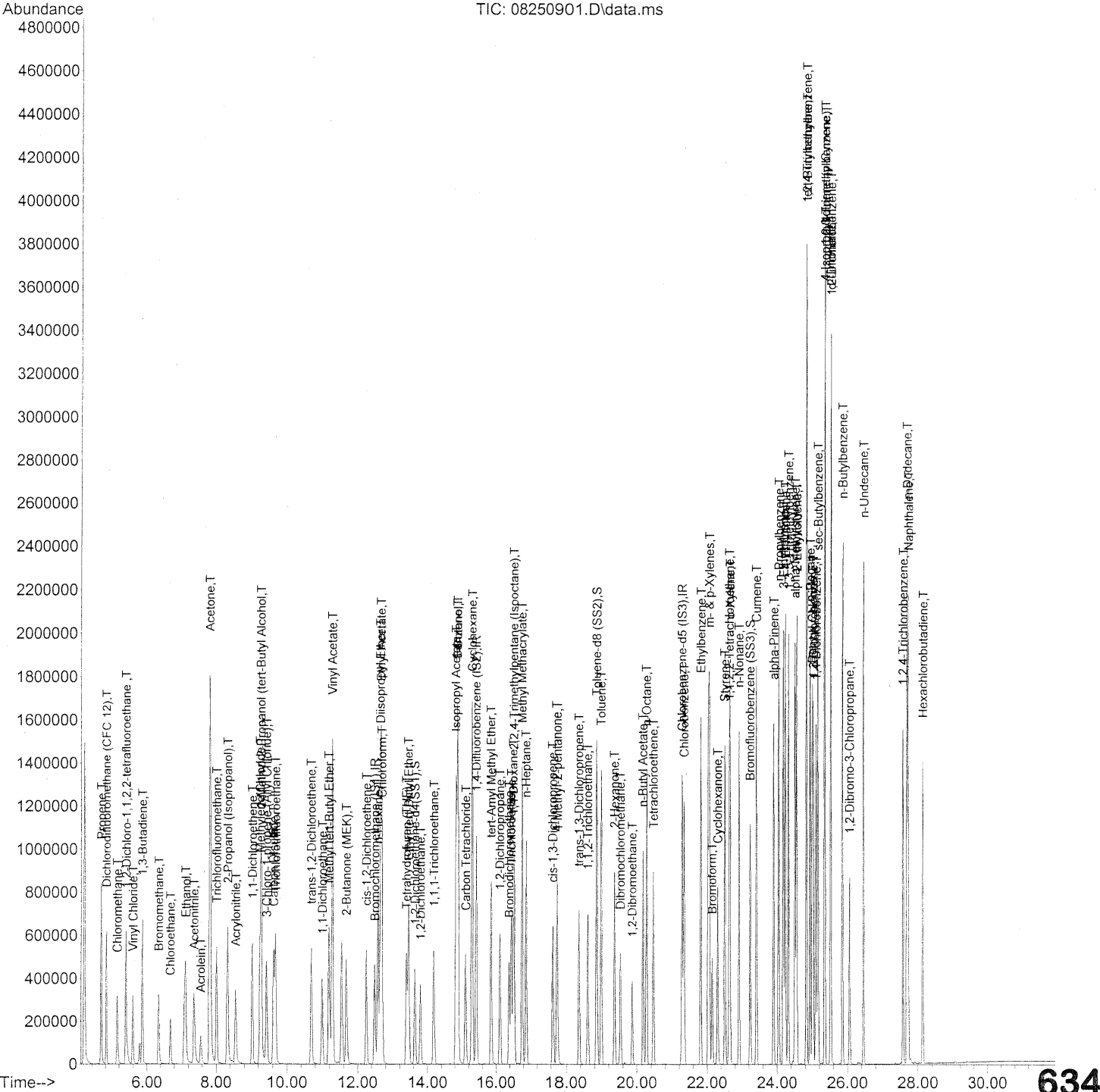
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.419	-0.7	101	-0.01
78 T	4-Ethyltoluene	2.328	2.427	-4.3	102	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.007	-2.2	101	-0.02
80 T	alpha-Methylstyrene	1.051	1.143	-8.8	103	-0.02
81 T	2-Ethyltoluene	2.423	2.490	-2.8	101	-0.02
82 T	1,2,4-Trimethylbenzene	2.003	2.067	-3.2	101	-0.02
83 T	n-Decane	1.302	1.176	9.7	91	-0.01
84 T	Benzyl Chloride	1.877	2.003	-6.7	99	-0.02
85 T	1,3-Dichlorobenzene	1.013	1.110	-9.6	107	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.165	-7.8	106	-0.02
87 T	sec-Butylbenzene	2.705	2.818	-4.2	102	-0.02
88 T	4-Isopropyltoluene (p-Cymen)	2.412	2.572	-6.6	103	-0.01
89 T	1,2,3-Trimethylbenzene	2.040	2.107	-3.3	102	-0.01
90 T	1,2-Dichlorobenzene	0.961	1.062	-10.5	106	-0.02
91 T	d-Limonene	0.852	0.847	0.6	96	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.407	-23.3	109	-0.01
93 T	n-Undecane	1.385	1.276	7.9	93	-0.01
94 T	1,2,4-Trichlorobenzene	0.661	0.791	-19.7	110	-0.02
95 T	Naphthalene	2.720	3.055	-12.3	109	-0.01
96 T	n-Dodecane	1.609	1.448	10.0	94	0.00
97 T	Hexachlorobutadiene	0.420	0.451	-7.4	108	0.00
98 T	Cyclohexanone	0.889	0.797	10.3	89	-0.05
99 T	tert-Butylbenzene	1.938	1.997	-3.0	102	-0.02
100 T	n-Butylbenzene	2.231	2.307	-3.4	100	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.49	130	244365	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1224563	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	573637	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	468095	22.039	ng	-0.02
Spiked Amount	25.000		Recovery	=	88.16%	
57) Toluene-d8 (SS2)	18.85	98	1308374	26.103	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.40%	
73) Bromofluorobenzene (SS3)	23.23	174	368137	27.851	ng	-0.01
Spiked Amount	25.000		Recovery	=	111.40%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	374952	22.360	ng	100
3) Dichlorodifluoromethan...	4.83	85	628331	22.926	ng	99
4) Chloromethane	5.15	50	432504	23.487	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	276713	24.850	ng	98
6) Vinyl Chloride	5.59	62	413674	23.382	ng	98
7) 1,3-Butadiene	5.86	54	368835	29.087	ng	100
8) Bromomethane	6.35	94	292601	27.169	ng	98
9) Chloroethane	6.69	64	230320	22.398	ng	98
10) Ethanol	7.12	45	1155623	108.721	ng	100
11) Acetonitrile	7.37	41	621183	19.955	ng	100
12) Acrolein	7.56	56	190484	23.543	ng	98
13) Acetone	7.82	58	1189653	118.619	ng	92
14) Trichlorofluoromethane	8.01	101	601874	24.290	ng	100
15) 2-Propanol (Isopropanol)	8.33	45	1349716	34.246	ng	99
16) Acrylonitrile	8.56	53	441294	24.352	ng	99
17) 1,1-Dichloroethene	9.03	96	307762	26.749	ng	# 83
18) 2-Methyl-2-Propanol (t...	9.28	59	1588645	45.412	ng	98
19) Methylene Chloride	9.25	84	304861	22.635	ng	89
20) 3-Chloro-1-propene (Al...	9.43	41	501745	19.325	ng	93
21) Trichlorotrifluoroethane	9.68	151	260151	28.875	ng	94
22) Carbon Disulfide	9.62	76	1162834	24.488	ng	99
23) trans-1,2-Dichloroethene	10.68	61	477650	23.462	ng	89
24) 1,1-Dichloroethane	10.99	63	573480	23.229	ng	100
25) Methyl tert-Butyl Ether	11.18	73	937718	24.711	ng	99
26) Vinyl Acetate	11.28	86	307137	150.485	ng	# 77
27) 2-Butanone (MEK)	11.67	72	229529	25.347	ng	# 87
28) cis-1,2-Dichloroethene	12.25	61	458100	24.174	ng	90
29) Diisopropyl Ether	12.66	87	313223	25.847	ng	# 1
30) Ethyl Acetate	12.67	61	239703	50.813	ng	98
31) n-Hexane	12.58	57	541178	22.426	ng	98

635

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	540098	25.422	ng	99
34) Tetrahydrofuran (THF)	13.39	72	222572	23.058	ng	92
35) Ethyl tert-Butyl Ether	13.46	87	366240	23.362	ng	91
36) 1,2-Dichloroethane	13.80	62	448913	23.120	ng	98
38) 1,1,1-Trichloroethane	14.19	97	503861	24.256	ng	96
39) Isopropyl Acetate	14.83	61	415598	45.751	ng	# 92
40) 1-Butanol	14.88	56	659865	41.520	ng	84
41) Benzene	14.88	78	1222902	22.714	ng	99
42) Carbon Tetrachloride	15.11	117	454568	26.491	ng	99
43) Cyclohexane	15.31	84	977448	49.567	ng	92
44) tert-Amyl Methyl Ether	15.85	73	932403	23.061	ng	97
45) 1,2-Dichloropropane	16.11	63	319464	23.626	ng	99
46) Bromodichloromethane	16.38	83	447773	25.238	ng	98
47) Trichloroethene	16.45	130	332325	27.367	ng	100
48) 1,4-Dioxane	16.51	88	265298	25.784	ng	83
49) 2,2,4-Trimethylpentane...	16.52	57	1411665	22.260	ng	94
50) Methyl Methacrylate	16.77	100	266177	53.704	ng	91
51) n-Heptane	16.88	71	340423	23.560	ng	96
52) cis-1,3-Dichloropropene	17.65	75	516189	23.034	ng	100
53) 4-Methyl-2-pentanone	17.76	58	317692	24.552	ng	99
54) trans-1,3-Dichloropropene	18.36	75	542896	25.479	ng	99
55) 1,1,2-Trichloroethane	18.60	97	301733	25.525	ng	96
58) Toluene	18.98	91	1304410	26.480	ng	99
59) 2-Hexanone	19.36	43	796585	24.318	ng	95
60) Dibromochloromethane	19.53	129	372559	31.966	ng	99
61) 1,2-Dibromoethane	19.86	107	350986	28.405	ng	98
62) n-Butyl Acetate	20.17	43	904032	23.414	ng	97
63) n-Octane	20.28	57	294117	24.697	ng	92
64) Tetrachloroethene	20.47	166	326669	28.657	ng	99
65) Chlorobenzene	21.34	112	855575	28.073	ng	100
66) Ethylbenzene	21.82	91	1492068	26.497	ng	98
67) m- & p-Xylenes	22.06	91	2344010	51.458	ng	97
68) Bromoform	22.15	173	299646	30.964	ng	99
69) Styrene	22.51	104	928130	28.189	ng	98
70) o-Xylene	22.65	91	1206508	26.417	ng	96
71) n-Nonane	22.91	43	677712	22.332	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	556587	27.461	ng	100
74) Cumene	23.41	105	1508257	26.143	ng	99
75) alpha-Pinene	23.90	93	755286	25.540	ng	98
76) n-Propylbenzene	24.05	91	1892687	26.098	ng	98
77) 3-Ethyltoluene	24.18	105	1515141	27.480	ng	99
78) 4-Ethyltoluene	24.23	105	1520563	28.462	ng	97
79) 1,3,5-Trimethylbenzene	24.32	105	1257469	27.908	ng	99

636

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 25 09:39:34 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	702636	29.127	ng	96
81) 2-Ethyltoluene	24.56	105	1502773	27.029	ng	98
82) 1,2,4-Trimethylbenzene	24.83	105	1256822	27.352	ng	99
83) n-Decane	24.94	57	728366	24.380	ng	97
84) Benzyl Chloride	25.00	91	1263770	29.340	ng	98
85) 1,3-Dichlorobenzene	25.03	146	695348	29.901	ng	98
86) 1,4-Dichlorobenzene	25.11	146	708668	28.580	ng	98
87) sec-Butylbenzene	25.16	105	1713334	27.602	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1522535	27.507	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	1295772	27.681	ng	96
90) 1,2-Dichlorobenzene	25.53	146	645884	29.294	ng	99
91) d-Limonene	25.53	68	530538	27.152	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.06	157	257042	33.896	ng	82
93) n-Undecane	26.46	57	799339	25.149	ng	97
94) 1,2,4-Trichlorobenzene	27.58	180	508494	33.542	ng	99
95) Naphthalene	27.73	128	1857814	29.771	ng	100
96) n-Dodecane	27.70	57	824123	22.319	ng	98
97) Hexachlorobutadiene	28.15	225	284495	29.505	ng	100
98) Cyclohexanone	22.30	55	448113	21.956	ng	95
99) tert-Butylbenzene	24.83	119	1214172	27.302	ng	99
100) n-Butylbenzene	25.86	91	1445358	28.240	ng	99

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

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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	120	-0.03
2 T Propene	1.716	1.659	3.3	119	0.01
3 T Dichlorodifluoromethane (CF	2.804	2.691	4.0	120	0.00
4 T Chloromethane	1.884	1.928	-2.3	136	0.00
5 T 1,2-Dichloro-1,1,2,2-tetra	1.139	1.179	-3.5	137	0.00
6 T Vinyl Chloride	1.810	1.853	-2.4	126	0.00
7 T 1,3-Butadiene	1.297	1.362	-5.0	133	0.00
8 T Bromomethane	1.102	1.188	-7.8	138	0.00
9 T Chloroethane	1.052	1.036	1.5	121	0.00
10 T Ethanol	1.087	1.019	6.3	123	-0.16
11 T Acetonitrile	3.185	2.716	14.7	113	-0.06
12 T Acrolein	0.828	0.755	8.8	110	-0.03
13 T Acetone	1.026	0.996	2.9	118	-0.07
14 T Trichlorofluoromethane	2.535	2.435	3.9	124	0.00
15 T 2-Propanol (Isopropanol)	4.032	3.119	22.6	117	-0.13
16 T Acrylonitrile	1.854	1.815	2.1	115	-0.05
17 T 1,1-Dichloroethene	1.177	1.216	-3.3	129	0.00
18 T 2-Methyl-2-Propanol (tert-B	3.579	3.506	2.0	118	-0.12
19 T Methylene Chloride	1.378	1.300	5.7	127	-0.03
20 T 3-Chloro-1-propene (Allyl C	2.656	2.117	20.3	106	-0.02
21 T Trichlorotrifluoroethane	0.922	1.001	-8.6	138	-0.01
22 T Carbon Disulfide	4.858	4.686	3.5	124	0.00
23 T trans-1,2-Dichloroethene	2.083	1.974	5.2	116	-0.02
24 T 1,1-Dichloroethane	2.526	2.376	5.9	121	-0.03
25 T Methyl tert-Butyl Ether	3.882	3.675	5.3	121	-0.05
26 T Vinyl Acetate	0.209	0.294	-40.7#	200	-0.05
27 T 2-Butanone (MEK)	0.926	0.883	4.6	116	-0.06
28 T cis-1,2-Dichloroethene	1.939	1.838	5.2	117	-0.03
29 T Diisopropyl Ether	1.240	1.265	-2.0	125	-0.05
30 T Ethyl Acetate	0.483	0.477	1.2	117	-0.06
31 T n-Hexane	2.469	2.208	10.6	117	-0.02
32 T Chloroform	2.174	2.201	-1.2	124	-0.03
33 S 1,2-Dichloroethane-d4 (SS1)	2.173	1.902	12.5	105	-0.03
34 T Tetrahydrofuran (THF)	0.988	0.841	14.9	118	-0.06
35 T Ethyl tert-Butyl Ether	1.604	1.573	1.9	126	-0.05
36 T 1,2-Dichloroethane	1.986	1.755	11.6	114	-0.03
37 IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	119	-0.02
38 T 1,1,1-Trichloroethane	0.424	0.404	4.7	122	-0.02

638

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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	0.185	0.172	7.0	116	-0.05
40 T 1-Butanol	0.324	0.276	14.8	115	-0.12
41 T Benzene	1.099	1.033	6.0	124	-0.02
42 T Carbon Tetrachloride	0.350	0.358	-2.3	126	-0.02
43 T Cyclohexane	0.403	0.399	1.0	124	-0.02
44 T tert-Amyl Methyl Ether	0.825	0.782	5.2	120	-0.05
45 T 1,2-Dichloropropane	0.276	0.259	6.2	118	-0.03
46 T Bromodichloromethane	0.362	0.343	5.2	120	-0.02
47 T Trichloroethene	0.248	0.259	-4.4	132	-0.03
48 T 1,4-Dioxane	0.210	0.214	-1.9	124	-0.05
49 T 2,2,4-Trimethylpentane (Iso	1.295	1.200	7.3	115	-0.02
50 T Methyl Methacrylate	0.101	0.107	-5.9	130	-0.05
51 T n-Heptane	0.295	0.278	5.8	120	-0.03
52 T cis-1,3-Dichloropropene	0.458	0.434	5.2	119	-0.02
53 T 4-Methyl-2-pentanone	0.264	0.245	7.2	115	-0.04
54 T trans-1,3-Dichloropropene	0.435	0.418	3.9	121	-0.02
55 T 1,1,2-Trichloroethane	0.241	0.240	0.4	126	-0.02
56 IR Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	111	-0.01
57 S Toluene-d8 (SS2)	2.184	2.291	-4.9	117	-0.02
58 T Toluene	2.147	2.239	-4.3	127	-0.02
59 T 2-Hexanone	1.428	1.338	6.3	109	-0.05
60 T Dibromochloromethane	0.508	0.563	-10.8	130	-0.01
61 T 1,2-Dibromoethane	0.539	0.587	-8.9	128	-0.02
62 T n-Butyl Acetate	1.683	1.554	7.7	111	-0.03
63 T n-Octane	0.519	0.511	1.5	116	-0.02
64 T Tetrachloroethene	0.497	0.580	-16.7	141	-0.02
65 T Chlorobenzene	1.328	1.441	-8.5	132	-0.01
66 T Ethylbenzene	2.454	2.564	-4.5	124	-0.02
67 T m- & p-Xylenes	1.985	2.053	-3.4	125	-0.05
68 T Bromoform	0.422	0.480	-13.7	130	-0.02
69 T Styrene	1.435	1.525	-6.3	127	-0.02
70 T o-Xylene	1.990	2.094	-5.2	125	-0.02
71 T n-Nonane	1.323	1.229	7.1	111	-0.01
72 T 1,1,2,2-Tetrachloroethane	0.883	0.934	-5.8	124	-0.02
73 S Bromofluorobenzene (SS3)	0.576	0.638	-10.8	123	-0.01
74 T Cumene	2.514	2.725	-8.4	131	-0.02
75 T alpha-Pinene	1.289	1.343	-4.2	122	-0.01
76 T n-Propylbenzene	3.161	3.352	-6.0	125	-0.01

639

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 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%

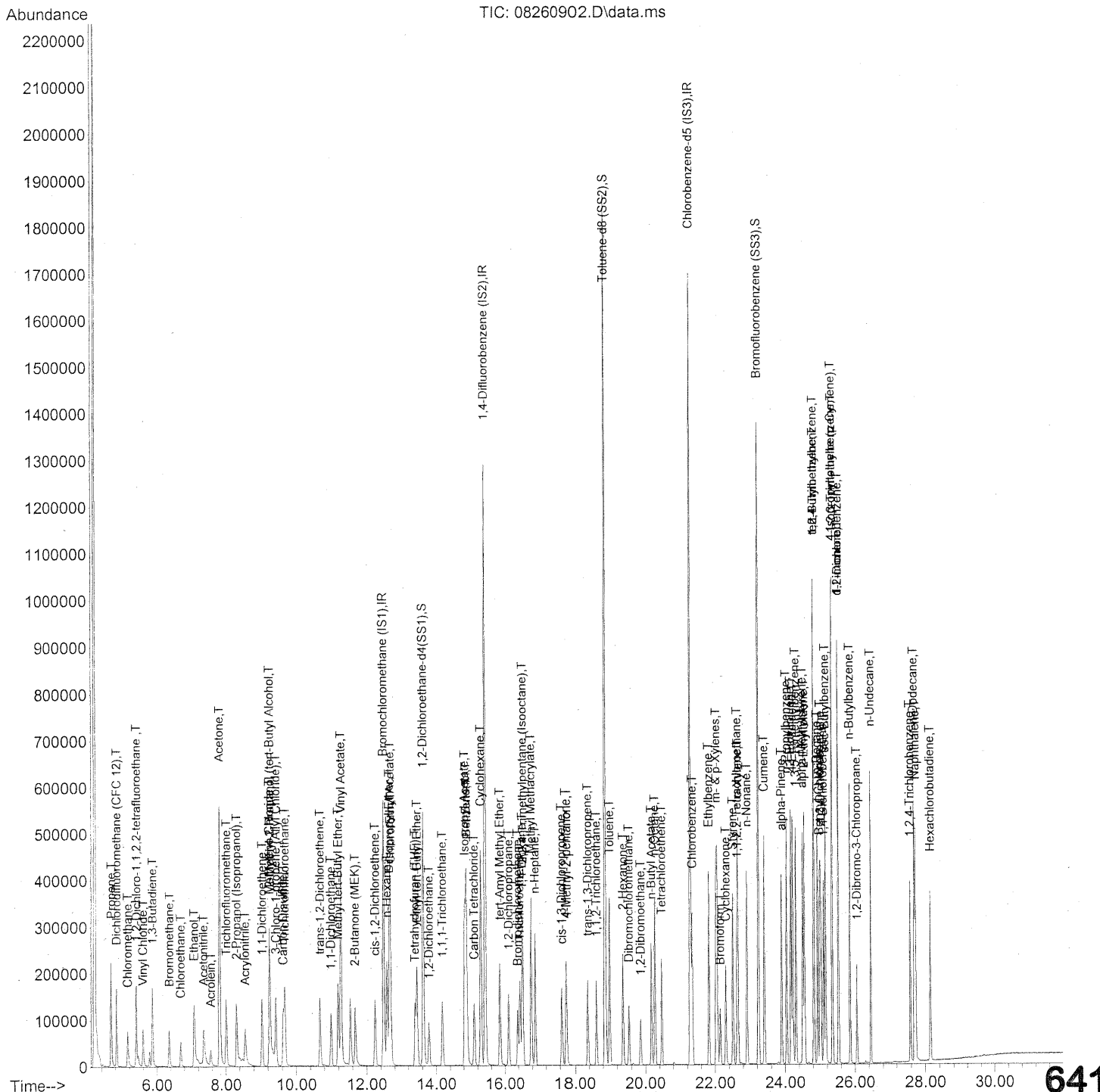
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.403	2.551	-6.2	127	-0.02
78 T	4-Ethyltoluene	2.328	2.490	-7.0	129	-0.02
79 T	1,3,5-Trimethylbenzene	1.964	2.088	-6.3	127	-0.02
80 T	alpha-Methylstyrene	1.051	1.135	-8.0	125	-0.02
81 T	2-Ethyltoluene	2.423	2.602	-7.4	128	-0.02
82 T	1,2,4-Trimethylbenzene	2.003	2.175	-8.6	128	-0.02
83 T	n-Decane	1.302	1.255	3.6	112	-0.02
84 T	Benzyl Chloride	1.877	2.057	-9.6	125	-0.03
85 T	1,3-Dichlorobenzene	1.013	1.115	-10.1	132	-0.02
86 T	1,4-Dichlorobenzene	1.081	1.170	-8.2	133	-0.02
87 T	sec-Butylbenzene	2.705	2.915	-7.8	127	-0.02
88 T	4-Isopropyltoluene (p-Cymen)	2.412	2.703	-12.1	130	-0.02
89 T	1,2,3-Trimethylbenzene	2.040	2.197	-7.7	126	-0.02
90 T	1,2-Dichlorobenzene	0.961	1.083	-12.7	133	-0.02
91 T	d-Limonene	0.852	0.871	-2.2	119	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.330	0.394	-19.4	131	-0.01
93 T	n-Undecane	1.385	1.344	3.0	113	-0.01
94 T	1,2,4-Trichlorobenzene	0.661	0.774	-17.1	136	-0.02
95 T	Naphthalene	2.720	3.020	-11.0	129	-0.01
96 T	n-Dodecane	1.609	1.507	6.3	113	-0.01
97 T	Hexachlorobutadiene	0.420	0.457	-8.8	139	0.00
98 T	Cyclohexanone	0.889	0.847	4.7	114	-0.05
99 T	tert-Butylbenzene	1.938	2.116	-9.2	130	-0.02
100 T	n-Butylbenzene	2.231	2.374	-6.4	122	-0.01

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	299899	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.42	114	1505911	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	711991	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	570429	21.884	ng	-0.03
Spiked Amount	25.000		Recovery	=	87.52%	
57) Toluene-d8 (SS2)	18.85	98	1631185	26.220	ng	-0.02
Spiked Amount	25.000		Recovery	=	104.88%	
73) Bromofluorobenzene (SS3)	23.23	174	454506	27.703	ng	-0.01
Spiked Amount	25.000		Recovery	=	110.80%	

Target Compounds

						Qvalue
2) Propene	4.68	42	106458	5.173	ng	97
3) Dichlorodifluoromethan...	4.84	85	169486	5.039	ng	98
4) Chloromethane	5.15	50	115612	5.116	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	74970	5.486	ng	97
6) Vinyl Chloride	5.59	62	112235	5.169	ng	98
7) 1,3-Butadiene	5.87	54	98016	6.298	ng	99
8) Bromomethane	6.36	94	72665	5.498	ng	97
9) Chloroethane	6.69	64	62788	4.975	ng	96
10) Ethanol	7.07	45	317884	24.368	ng	100
11) Acetonitrile	7.35	41	171035	4.477	ng	100
12) Acrolein	7.56	56	48922	4.927	ng	100
13) Acetone	7.81	58	328580	26.696	ng	93
14) Trichlorofluoromethane	8.01	101	153358	5.043	ng	99
15) 2-Propanol (Isopropanol)	8.30	45	353610	7.311	ng	97
16) Acrylonitrile	8.55	53	115388	5.188	ng	99
17) 1,1-Dichloroethene	9.03	96	80236	5.682	ng	# 83
18) 2-Methyl-2-Propanol (t...	9.25	59	424827	9.895	ng	97
19) Methylene Chloride	9.24	84	83455	5.049	ng	90
20) 3-Chloro-1-propene (Al...	9.43	41	137108	4.303	ng	99
21) Trichlorotrifluoroethane	9.67	151	66011	5.970	ng	98
22) Carbon Disulfide	9.63	76	300714	5.160	ng	99
23) trans-1,2-Dichloroethene	10.68	61	125474	5.022	ng	89
24) 1,1-Dichloroethane	10.98	63	151094	4.987	ng	100
25) Methyl tert-Butyl Ether	11.18	73	240262	5.159	ng	100
26) Vinyl Acetate	11.27	86	88464	35.318	ng	# 85
27) 2-Butanone (MEK)	11.67	72	58257	5.242	ng	96
28) cis-1,2-Dichloroethene	12.24	61	120166	5.167	ng	89
29) Diisopropyl Ether	12.64	87	81163	5.457	ng	# 1
30) Ethyl Acetate	12.67	61	61225	10.575	ng	98
31) n-Hexane	12.58	57	144372	4.875	ng	98

642

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	141275	5.418	ng	99
34) Tetrahydrofuran (THF)	13.39	72	55518	4.687	ng	98
35) Ethyl tert-Butyl Ether	13.45	87	97194	5.052	ng	93
36) 1,2-Dichloroethane	13.79	62	111590	4.683	ng	96
38) 1,1,1-Trichloroethane	14.17	97	127910	5.007	ng	97
39) Isopropyl Acetate	14.83	61	108737	9.734	ng	# 88
40) 1-Butanol	14.87	56	173202	8.862	ng	82
41) Benzene	14.88	78	329937	4.983	ng	99
42) Carbon Tetrachloride	15.10	117	116601	5.526	ng	98
43) Cyclohexane	15.29	84	259889	10.717	ng	93
44) tert-Amyl Methyl Ether	15.85	73	244890	4.925	ng	97
45) 1,2-Dichloropropane	16.11	63	81967	4.929	ng	100
46) Bromodichloromethane	16.37	83	111721	5.120	ng	98
47) Trichloroethene	16.44	130	82643	5.534	ng	98
48) 1,4-Dioxane	16.51	88	68850	5.441	ng	81
49) 2,2,4-Trimethylpentane...	16.52	57	375985	4.821	ng	94
50) Methyl Methacrylate	16.76	100	69214	11.356	ng	91
51) n-Heptane	16.88	71	88723	4.993	ng	97
52) cis-1,3-Dichloropropene	17.65	75	129315	4.692	ng	99
53) 4-Methyl-2-pentanone	17.76	58	81154	5.100	ng	99
54) trans-1,3-Dichloropropene	18.36	75	138443	5.283	ng	100
55) 1,1,2-Trichloroethane	18.60	97	75933	5.223	ng	97
58) Toluene	18.98	91	344288	5.631	ng	100
59) 2-Hexanone	19.36	43	209619	5.156	ng	96
60) Dibromochloromethane	19.53	129	92252	6.377	ng	98
61) 1,2-Dibromoethane	19.86	107	88640	5.780	ng	99
62) n-Butyl Acetate	20.17	43	243476	5.081	ng	98
63) n-Octane	20.27	57	77810	5.264	ng	92
64) Tetrachloroethene	20.46	166	84262	5.956	ng	100
65) Chlorobenzene	21.34	112	221666	5.860	ng	100
66) Ethylbenzene	21.82	91	387052	5.538	ng	98
67) m- & p-Xylenes	22.04	91	608069	10.755	ng	# 30
68) Bromoform	22.15	173	70379	5.859	ng	98
69) Styrene	22.51	104	232324	5.685	ng	98
70) o-Xylene	22.65	91	316067	5.576	ng	99
71) n-Nonane	22.91	43	185505	4.925	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	142346	5.658	ng	100
74) Cumene	23.41	105	399671	5.582	ng	100
75) alpha-Pinene	23.90	93	193115	5.261	ng	99
76) n-Propylbenzene	24.05	91	491650	5.462	ng	98
77) 3-Ethyltoluene	24.17	105	395879	5.785	ng	100
78) 4-Ethyltoluene	24.22	105	386500	5.829	ng	98
79) 1,3,5-Trimethylbenzene	24.31	105	324154	5.796	ng	98

643

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 26 12:15:04 2009
 Quant Method : J:\MS13\METHODS\R13080609.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 06 17:14:07 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	172969	5.777	ng	98
81) 2-Ethyltoluene	24.56	105	389118	5.639	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	328293	5.756	ng	100
83) n-Decane	24.93	57	193058	5.206	ng	97
84) Benzyl Chloride	24.99	91	322148	6.026	ng	99
85) 1,3-Dichlorobenzene	25.02	146	173109	5.997	ng	97
86) 1,4-Dichlorobenzene	25.10	146	176655	5.740	ng	97
87) sec-Butylbenzene	25.16	105	440029	5.711	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	396460	5.771	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	334804	5.763	ng	97
90) 1,2-Dichlorobenzene	25.53	146	163542	5.976	ng	99
91) d-Limonene	25.53	68	135191	5.574	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.06	157	61639	6.549	ng	86
93) n-Undecane	26.46	57	208628	5.288	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	123468	6.562	ng	97
95) Naphthalene	27.73	128	455796	5.885	ng	100
96) n-Dodecane	27.69	57	212396	4.634	ng	98
97) Hexachlorobutadiene	28.15	225	71522	5.976	ng	98
98) Cyclohexanone	22.30	55	118266	4.669	ng	95
99) tert-Butylbenzene	24.83	119	319465	5.788	ng	98
100) n-Butylbenzene	25.86	91	368541	5.801	ng	99

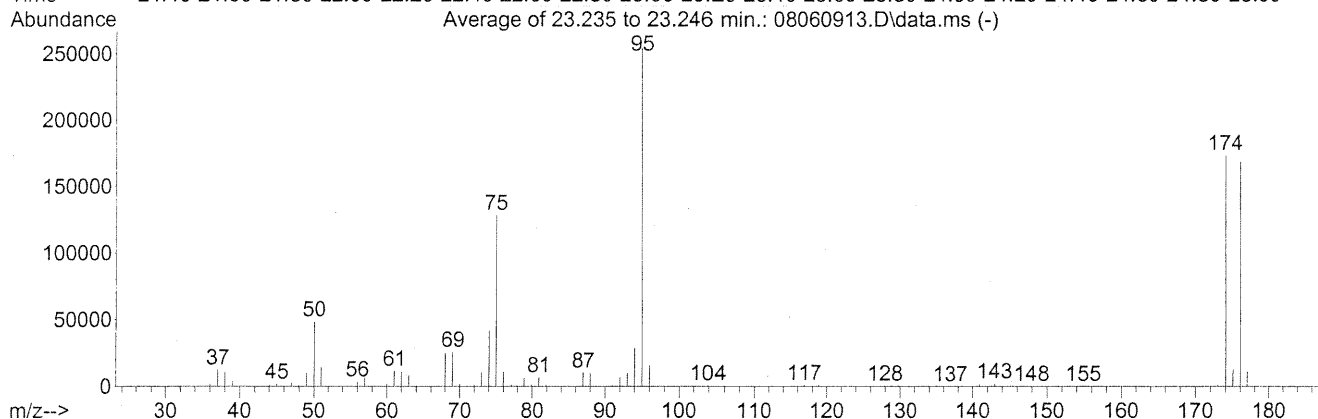
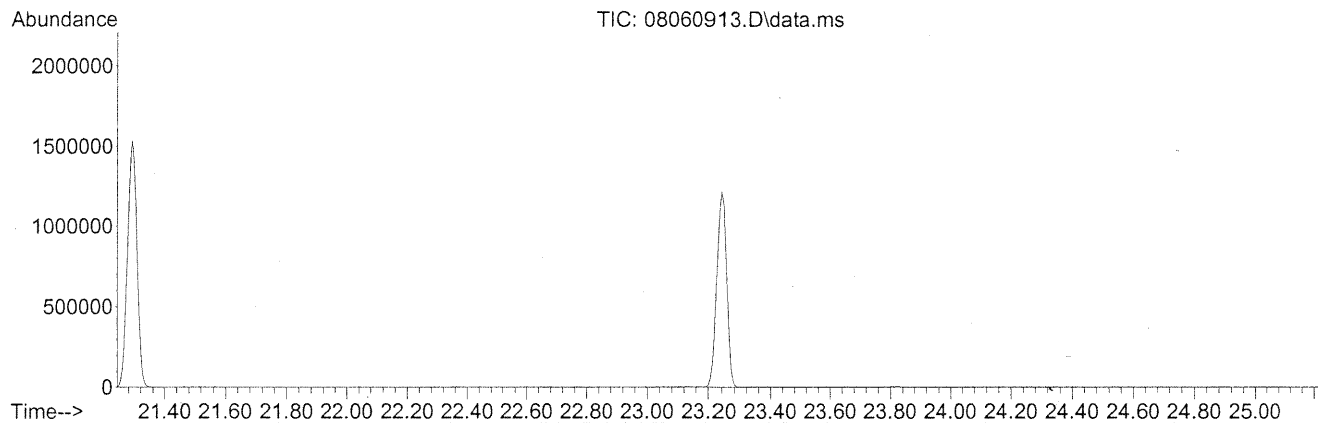
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\06\
 Data File : 08060913.D
 Acq On : 6 Aug 2009 11:15
 Operator : WA
 Sample : 25ng BFB STD
 Misc : S20-07200902
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 07:59:49 2009



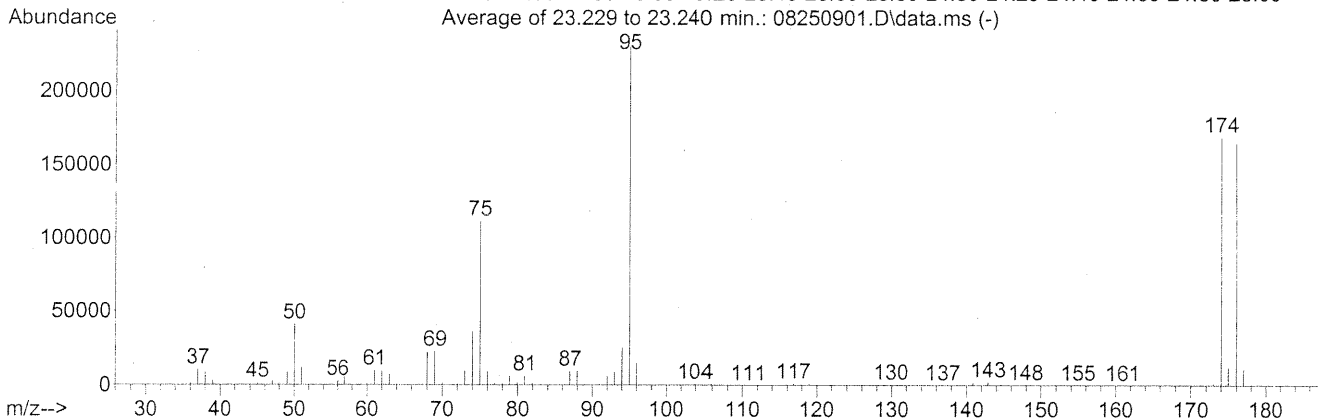
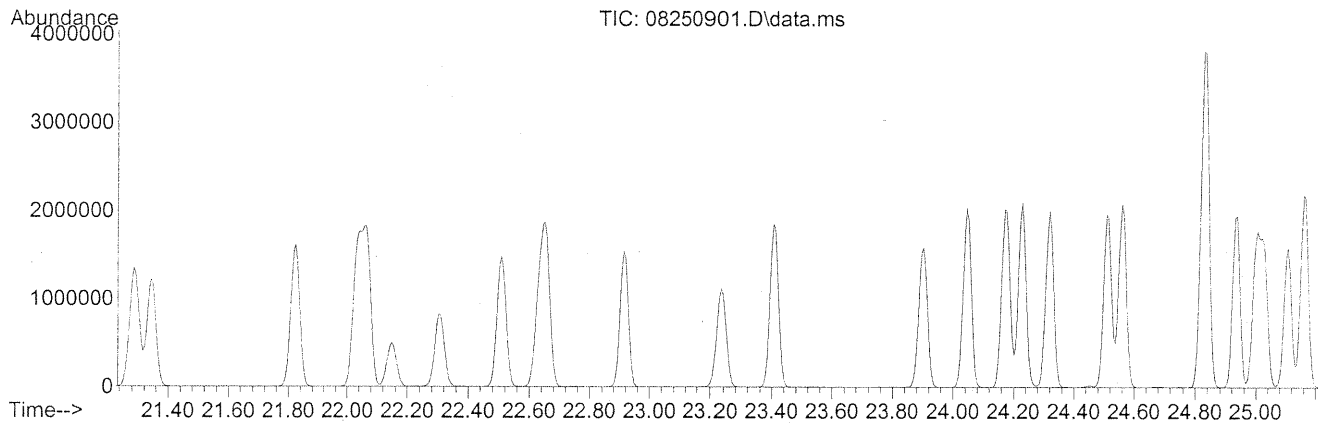
AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	48845	PASS
75	95	30	66	50.6	128627	PASS
95	95	100	100	100.0	254165	PASS
96	95	5	9	6.3	16094	PASS
173	174	0.00	2	0.9	1624	PASS
174	95	50	120	68.4	173931	PASS
175	174	4	9	7.5	13043	PASS
176	174	93	101	97.2	168981	PASS
177	176	5	9	6.6	11200	PASS

Data Path : J:\MS13\DATA\2009_08\25\
 Data File : 08250901.D
 Acq On : 25 Aug 2009 8:51
 Operator : WA
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08100903
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



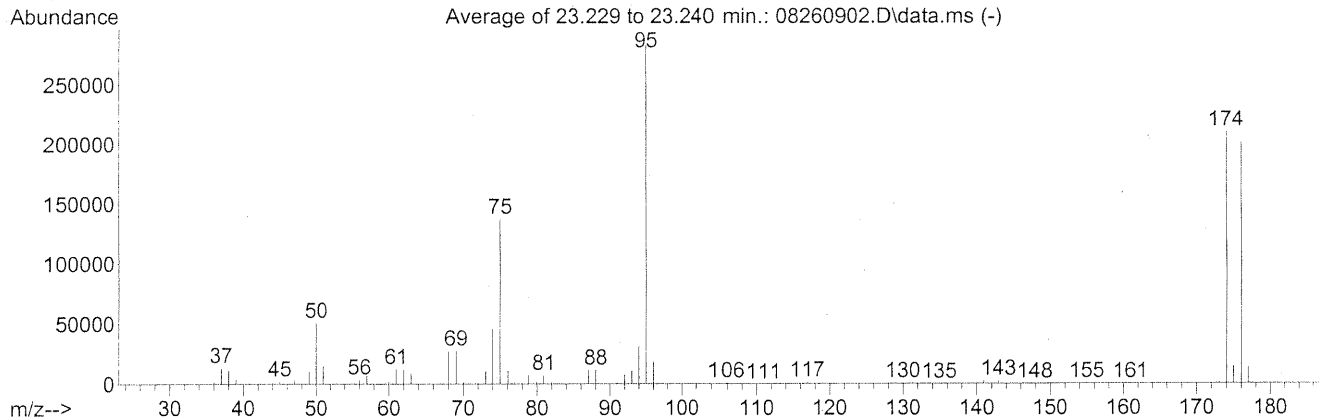
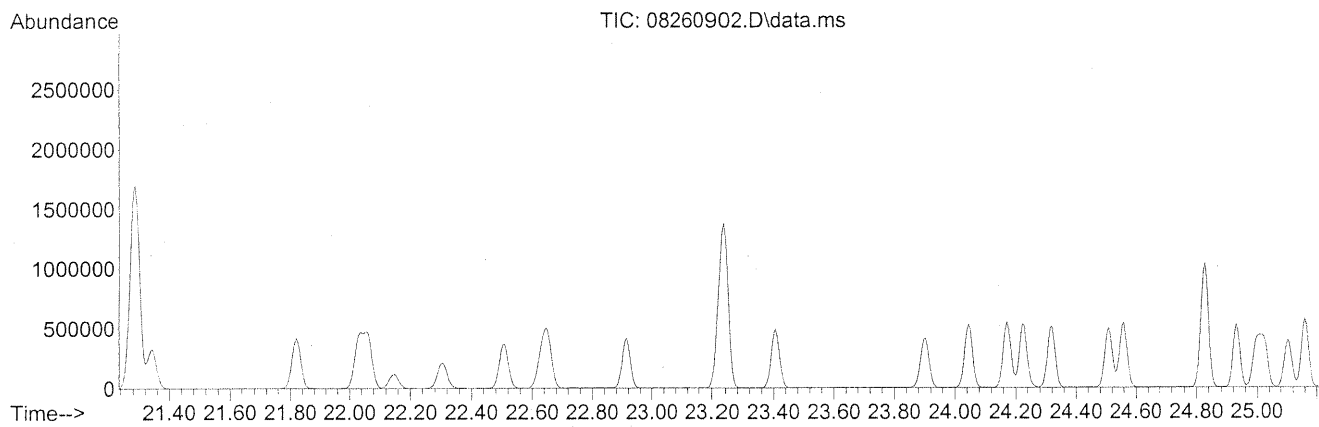
AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	41328	PASS
75	95	30	66	48.5	111672	PASS
95	95	100	100	100.0	230123	PASS
96	95	5	9	6.6	15137	PASS
173	174	0.00	2	1.0	1684	PASS
174	95	50	120	73.6	169323	PASS
175	174	4	9	7.4	12463	PASS
176	174	93	101	97.3	164693	PASS
177	176	5	9	6.7	11054	PASS

Data Path : J:\MS13\DATA\2009_08\26\
 Data File : 08260902.D
 Acq On : 26 Aug 2009 10:15
 Operator : WA/CC
 Sample : 5ng TO-15 CCV STD
 Misc : S20-08140906/S20-07310904
 ALS Vial : 9 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13080609.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 06 17:14:07 2009



AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3341

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	51235	PASS
75	95	30	66	48.7	137680	PASS
95	95	100	100	100.0	282944	PASS
96	95	5	9	6.7	18941	PASS
173	174	0.00	2	0.8	1760	PASS
174	95	50	120	74.3	210261	PASS
175	174	4	9	7.2	15077	PASS
176	174	93	101	95.7	201280	PASS
177	176	5	9	6.8	13677	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
13	08/06/09 11:15	08060913.D	25ng BFB STD	S20-07200902	WA	4	Passed
14	08/06/09 11:55	08060914.D	0.1ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
15	08/06/09 12:36	08060915.D	0.2ng TO-15 ICAL STD	S20-07200902/S20-07240912	WA	1	
16	08/06/09 13:17	08060916.D	0.5ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
17	08/06/09 13:57	08060917.D	1.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
18	08/06/09 14:38	08060918.D	5.0ng TO-15 ICAL STD	S20-07200902/S20-07310903	WA	4	
19	08/06/09 15:18	08060919.D	25ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
20	08/06/09 15:59	08060920.D	50ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
21	08/06/09 16:39	08060921.D	100ng TO-15 ICAL STD	S20-07200902/S20-07310901	WA	4	
ICAL saved as R13080609.M; Good from 0.1ng --> 100ng, except: Acetone: 2.5ng -->500ng and THF: 0.2ng -->100ng							
22	08/06/09 17:20	08060922.D	25ng TO-15 ICV STD	S20-07200902/S20-07240916	WA	2	failed, case file
23	08/06/09 18:10	08060923.D	Blank	S20-07200902	WA	4	
24	08/06/09 18:51	08060924.D	25ng TO-15 ICV STD	S20-07200902/S20-07240917	WA	2	Passed all cmpds.
25	08/06/09 19:31	08060925.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
26	08/06/09 20:11	08060926.D	1.0ng TO-15 LOQ Verification	S20-07200902/S20-07310903	WA	4	
27	08/06/09 20:53	08060927.D	CAS QC CAN/FC/Gauge (1000mL)	AC00687/FC00232/AVG00940	WA	5	
28	08/06/09 21:35	08060928.D	CAS QC CAN/FC/Gauge (1000mL)	AC00705/FC00189/AVG00655	WA	6	
29	08/06/09 22:17	08060929.D	CAS QC CAN/FC/Gauge (1000mL)	AC00931/FC00407/AVG01149	WA	7	
30	08/06/09 22:59	08060930.D	CAS QC CAN/FC/Gauge (1000mL)	AC00672/FC00783/AVG00900	WA	8	
31	08/06/09 23:41	08060931.D	CAS QC CAN/FC/Gauge (1000mL)	AC01257/FC00515/AVG00906	WA	9	
32	08/07/09 0:23	08060932.D	CAS QC CAN/FC/Gauge (1000mL)	AC00958/FC00678/AVG01072	WA	10	
33	08/07/09 1:04	08060933.D	CAS QC CAN/FC/Gauge (1000mL)	AC01527/FC00508/AVG01046	WA	11	
34	08/07/09 1:46	08060934.D	CAS QC CAN/FC/Gauge (1000mL)	AC01172/FC00256/AVG00986	WA	12	
35	08/07/09 2:27	08060935.D	0.2ng LOD Verification	S20-07200902/S20-07240912	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
16	08/24/09 22:19	08240916.D	P0902842-006 (1000mL)	[REDACTED]	WA	8	
17	08/24/09 23:01	08240917.D	P0902842-008 (1000mL)	[REDACTED]	WA	11	
18	08/24/09 23:43	08240918.D	P0902842-010 (1000mL)	[REDACTED]	WA	15	
19	08/25/09 0:24	08240919.D	Blank		WA	4	
20	08/25/09 1:06	08240920.D	P0902842-011 (1000mL)	[REDACTED]	WA	14	
21	08/25/09 1:46	08240921.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA	13	Passed
22	08/25/09 5:24	08240922.D	P0902842-008 dup (1000mL)	[REDACTED]	WA	11	Passed
23	08/25/09 6:04	08240923.D	P0902842-002 (35mL)	[REDACTED]	WA	3	
24	08/25/09 6:47	08240924.D	P0902842-009 dil (3.0mL)	[REDACTED]	WA	12	
25	08/25/09 7:31	08240925.D	P0902842-009 dil (3.0mL)	[REDACTED]	WA	4	

108 8/25/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/25/09 8:51	08250901.D	25ng TO-15 CCV STD	S20-08140906/S20-08100903	WA	4	Passed
2	08/25/09 9:47	08250902.D	TO-15 Method Blank (1000mL)	S20-08140906	WA	4	Passed
3	08/25/09 10:52	08250903.D	P0902856-002 (1.0mL)	[REDACTED]	WA/CC	4	not used
4	08/25/09 11:55	08250904.D	P0902875-001 (100.0mL) screen only	[REDACTED]	WA/CC	1	screen
5	08/25/09 12:35	08250905.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	2	case file
6	08/25/09 13:15	08250906.D	Blank		WA/CC	4	
7	08/25/09 13:57	08250907.D	P0902875-001 (1000mL)	[REDACTED]	WA/CC	1	
8	08/25/09 14:39	08250908.D	P0902875-002 (1000mL)	[REDACTED]	WA/CC	2	
9	08/25/09 16:14	08250909.D	Blank		WA/CC	4	
10	08/25/09 17:17	08250910.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	Passed
11	08/25/09 18:06	08250911.D	Blank		WA/CC	4	
12	08/25/09 18:48	08250912.D	P0902875-003 (1000mL)	[REDACTED]	WA/CC	3	
13	08/25/09 19:30	08250913.D	P0902875-004 (1000mL)	[REDACTED]	WA/CC	5	
14	08/25/09 20:12	08250914.D	P0902875-005 (1000mL)	[REDACTED]	WA/CC	6	
15	08/25/09 20:54	08250915.D	P0902875-006 (1000mL)	[REDACTED]	WA/CC	7	
16	08/25/09 21:35	08250916.D	System		WA/CC	16	
17	08/25/09 22:17	08250917.D	P0902876-001 (1000mL)	Environmental Health 102349	WA/CC	8	
18	08/25/09 22:59	08250918.D	P0902876-002 (1000mL)	Environmental Health 102350	WA/CC	10	
19	08/25/09 23:41	08250919.D	P0902876-002 dup (1000mL)	Environmental Health 102350	WA/CC	10	Passed
20	08/26/09 0:23	08250920.D	P0902876-003 (1000mL)	Environmental Health 102351	WA/CC	11	
21	08/26/09 1:05	08250921.D	P0902876-004 (1000mL)	Environmental Health 102352	WA/CC	12	
22	08/26/09 1:47	08250922.D	P0902876-005 (1000mL)	Environmental Health 102353	WA/CC	14	
23	08/26/09 2:28	08250923.D	P0902876-006 (1000mL)	Environmental Health 102470	WA/CC	15	
24	08/26/09 3:09	08250924.D	P0902875-003 dil (100mL)	[REDACTED]	WA/CC	3	
25	08/26/09 5:22	08250925.D	P0902875-005 dil (200mL)	[REDACTED]	WA/CC	6	
26	08/26/09 6:03	08250926.D	P0902875-006 dil (200mL)	[REDACTED]	WA/CC	7	
27	08/26/09 7:04	08250927.D	P0902875-002 dil (200mL)	[REDACTED]	WA/CC	2	

108 8/26/09

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/26/09 10:15	08260902.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA/CC	9	Passed (EM=1424)
2	08/26/09 11:30	08260903.D	TO-15 Method Blank (1000ml)	S20-08140906	WA/CC	4	Passed
3	08/26/09 12:23	08260904.D	P0902949-001 dil (25mL)	[REDACTED]	WA/CC	7	
4	08/26/09 13:03	08260905.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
5	08/26/09 13:43	08260906.D	P0902876-001 dil (200mL)	Environmental Health 102349	WA/CC	8	
6	08/26/09 14:42	08260907.D	P0902949-006 (0.25mL)	[REDACTED]	WA/CC	12	
7	08/26/09 15:22	08260908.D	System		WA/CC	16	
8	08/26/09 16:02	08260909.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
9	08/26/09 16:43	08260910.D	P0902949-005 (20mL)	[REDACTED]	WA/CC	15	
10	08/26/09 17:25	08260911.D	P0902876-007 (1000mL)	Environmental Health 102471	WA/CC	1	
11	08/26/09 18:05	08260912.D	P0902949-005 dup (20mL)	[REDACTED]	WA/CC	15	Passed
12	08/26/09 18:47	08260913.D	P0902876-008 (1000mL)	Environmental Health 102472	WA/CC	2	
13	08/26/09 19:28	08260914.D	P0902876-009 (1000mL)	Environmental Health 102473	WA/CC	3	
14	08/26/09 20:09	08260915.D	P0902876-010 (1000mL)	Environmental Health 102474	WA/CC	5	
15	08/26/09 20:51	08260916.D	P0902876-011 (1000mL)	Environmental Health 102475	WA/CC	6	
16	08/26/09 21:32	08260917.D	System		WA/CC	16	
17	08/26/09 22:13	08260918.D	P0902876-004 dil (200mL)	Environmental Health 102352	WA/CC	12	
18	08/26/09 22:53	08260919.D	P0902876-005 dil (200mL)	Environmental Health 102353	WA/CC	14	
19	08/26/09 23:34	08260920.D	P0902949-001 (250mL)	[REDACTED]	WA/CC	7	
20	08/27/09 0:16	08260921.D	P0902949-003 (1000mL)	[REDACTED]	WA/CC	10	
21	08/27/09 0:58	08260922.D	P0902949-004 (1000mL)	[REDACTED]	WA/CC	11	
22	08/27/09 1:38	08260923.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	Passed
23	08/27/09 4:32	08260924.D	Blank		WA/CC	4	
24	08/27/09 6:39	08260925.D	P0902876-009 (1000mL)	Environmental Health 102473	WA/CC	3	
25	08/27/09 7:25	08260926.D	P0902949-002 (200mL)	[REDACTED]	WA/CC	8	151 8/27/09