
LABORATORY REPORT

September 2, 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 7, 2009. For your reference, these analyses have been assigned our service request number P0902720.

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 443 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: P0902720
Project: 16512

CASE NARRATIVE

The samples were received intact under chain of custody on August 7, 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 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: P0902720

Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>P1 (Hg)</u>	<u>P1 (psig)</u>	<u>P1 (Hg)</u>	<u>P1 (psig)</u>	<u>P2 (Hg)</u>	<u>P2 (psig)</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Bottle Order #</u>
P0902720-001.01	99934	6.0 L-Summa Canister Ambient	0.0	0.0	3.5				AC01378	14117		
P0902720-002.01	99935	6.0 L-Summa Canister Ambient	-0.6	-0.3	3.5				AC01477	14150		
P0902720-003.01	99936	6.0 L-Summa Canister Ambient		0.2	3.5				AC00955	14150		
P0902720-004.01	100675	6.0 L-Summa Canister Ambient	-6.1	-3.0	3.7				AC01665	14190		
P0902720-005.01	100676	6.0 L-Summa Canister Ambient	-7.6	-3.7	3.5				AC00748	14190		
P0902720-006.01	100677	6.0 L-Summa Canister Ambient	-4.4	-2.2	3.5				AC01049	14190		
P0902720-007.01	100678	6.0 L-Summa Canister Ambient	-7.6	-3.7	3.5				AC01156	14190		
P0902720-008.01	100679	6.0 L-Summa Canister Ambient	-29.7	-14.6	3.9				AC01467	14150		

Miscellaneous Items - received

- FC00418
- AVG00621
- AVG00988
- FC00643
- AVG00675
- FC00368
- FC00065
- FC00571
- AVG00506
- FC00500
- AVG01180
- FC00695
- AVG00941
- AVG00638
- FC00097
- AVG00891

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

90902720

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.)	
① 99934	SUMMA	EPA TO-15 FULL LIST	20 MIN	-0.0
② 99935				-0.6
③ 99936				+0.2
④ 100675				-6.1
⑤ 100676				-7.6
⑥ 100677				-4.4
⑦ 100678				-7.6
⑧ 100679			6 MIN	-29.7

Special instructions:

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

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 8/6/09
 Received by: [Signature] of (company name) CAS Date: 8/7/09 0935
 Relinquished by: _____ of (company name) _____ Date: _____
 Received by: _____ of (company name) _____ Date: _____
 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: P0902720

Project: 16512

Sample(s) received on: 08/07/09

Date opened: 08/07/09

by: MZAMORA

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.

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

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0902720-001.01	6.0 L Ambient Can					
P0902720-002.01	6.0 L Ambient Can					
P0902720-003.01	6.0 L Ambient Can					
P0902720-004.01	6.0 L Ambient Can					
P0902720-005.01	6.0 L Ambient Can					
P0902720-006.01	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, Incorporated
Client Sample ID: 99934
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01378

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 0.20 Liter(s)
 0.050 Liter(s)

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

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	29	3.1	17	1.8	
75-71-8	Dichlorodifluoromethane (CFC 12)	7.3	3.1	1.5	0.63	
74-87-3	Chloromethane	1.8	0.62	0.88	0.30	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	7.6	3.1	1.1	0.44	
75-01-4	Vinyl Chloride	ND	0.62	ND	0.24	
106-99-0	1,3-Butadiene	ND	0.62	ND	0.28	
74-83-9	Bromomethane	ND	0.62	ND	0.16	
75-00-3	Chloroethane	ND	0.62	ND	0.24	
64-17-5	Ethanol	3,300	31	1,800	16	D
75-05-8	Acetonitrile	170	3.1	100	1.8	
107-02-8	Acrolein	5.7	3.1	2.5	1.4	
67-64-1	Acetone	100	31	44	13	
75-69-4	Trichlorofluoromethane	1.9	0.62	0.34	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	97	3.1	40	1.3	
107-13-1	Acrylonitrile	ND	3.1	ND	1.4	
75-35-4	1,1-Dichloroethene	ND	0.62	ND	0.16	
75-09-2	Methylene Chloride	3.7	3.1	1.1	0.89	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.62	ND	0.20	
76-13-1	Trichlorotrifluoroethane	ND	0.62	ND	0.081	
75-15-0	Carbon Disulfide	5.5	3.1	1.8	1.0	
156-60-5	trans-1,2-Dichloroethene	ND	0.62	ND	0.16	
75-34-3	1,1-Dichloroethane	ND	0.62	ND	0.15	
1634-04-4	Methyl tert-Butyl Ether	0.76	0.62	0.21	0.17	
108-05-4	Vinyl Acetate	ND	31	ND	8.8	
78-93-3	2-Butanone (MEK)	17	3.1	5.8	1.1	

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: _____

8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99934

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-001

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 8/7/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/14/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 0.20 Liter(s)

Test Notes:

0.050 Liter(s)

Container ID: AC01378

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

Canister Dilution Factor: 1.24

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.62	ND	0.16	
141-78-6	Ethyl Acetate	ND	6.2	ND	1.7	
110-54-3	n-Hexane	9.6	3.1	2.7	0.88	
67-66-3	Chloroform	1.2	0.62	0.24	0.13	
109-99-9	Tetrahydrofuran (THF)	4.4	3.1	1.5	1.1	
107-06-2	1,2-Dichloroethane	13	0.62	3.2	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.62	ND	0.11	
71-43-2	Benzene	11	0.62	3.5	0.19	
56-23-5	Carbon Tetrachloride	0.66	0.62	0.11	0.099	
110-82-7	Cyclohexane	ND	3.1	ND	0.90	
78-87-5	1,2-Dichloropropane	ND	0.62	ND	0.13	
75-27-4	Bromodichloromethane	ND	0.62	ND	0.093	
79-01-6	Trichloroethene	ND	0.62	ND	0.12	
123-91-1	1,4-Dioxane	ND	3.1	ND	0.86	
80-62-6	Methyl Methacrylate	ND	6.2	ND	1.5	
142-82-5	n-Heptane	11	3.1	2.7	0.76	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	ND	0.68	
108-10-1	4-Methyl-2-pentanone	ND	3.1	ND	0.76	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	ND	0.68	
79-00-5	1,1,2-Trichloroethane	ND	0.62	ND	0.11	
108-88-3	Toluene	29	3.1	7.7	0.82	
591-78-6	2-Hexanone	ND	3.1	ND	0.76	
124-48-1	Dibromochloromethane	ND	0.62	ND	0.073	
106-93-4	1,2-Dibromoethane	ND	0.62	ND	0.081	
123-86-4	n-Butyl Acetate	ND	3.1	ND	0.65	

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: _____

8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99934
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-001

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01378

Date Collected: 8/6/09
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 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 0.20 Liter(s)
 0.050 Liter(s)

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

Canister Dilution Factor: 1.24

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	3.1	ND	0.66	
127-18-4	Tetrachloroethene	ND	0.62	ND	0.091	
108-90-7	Chlorobenzene	ND	0.62	ND	0.13	
100-41-4	Ethylbenzene	4.4	3.1	1.0	0.71	
179601-23-1	m,p-Xylenes	13	3.1	3.0	0.71	
75-25-2	Bromoform	ND	3.1	ND	0.30	
100-42-5	Styrene	3.3	3.1	0.78	0.73	
95-47-6	o-Xylene	4.3	3.1	1.0	0.71	
111-84-2	n-Nonane	ND	3.1	ND	0.59	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.62	ND	0.090	
98-82-8	Cumene	ND	3.1	ND	0.63	
80-56-8	alpha-Pinene	59	3.1	11	0.56	
103-65-1	n-Propylbenzene	ND	3.1	ND	0.63	
622-96-8	4-Ethyltoluene	ND	3.1	ND	0.63	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	ND	0.63	
95-63-6	1,2,4-Trimethylbenzene	3.4	3.1	0.69	0.63	
100-44-7	Benzyl Chloride	ND	0.62	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.62	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.62	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.62	ND	0.10	
5989-27-5	d-Limonene	15	3.1	2.7	0.56	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	ND	0.32	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	ND	0.42	
91-20-3	Naphthalene	ND	3.1	ND	0.59	
87-68-3	Hexachlorobutadiene	ND	3.1	ND	0.29	

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

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

Verified By: _____

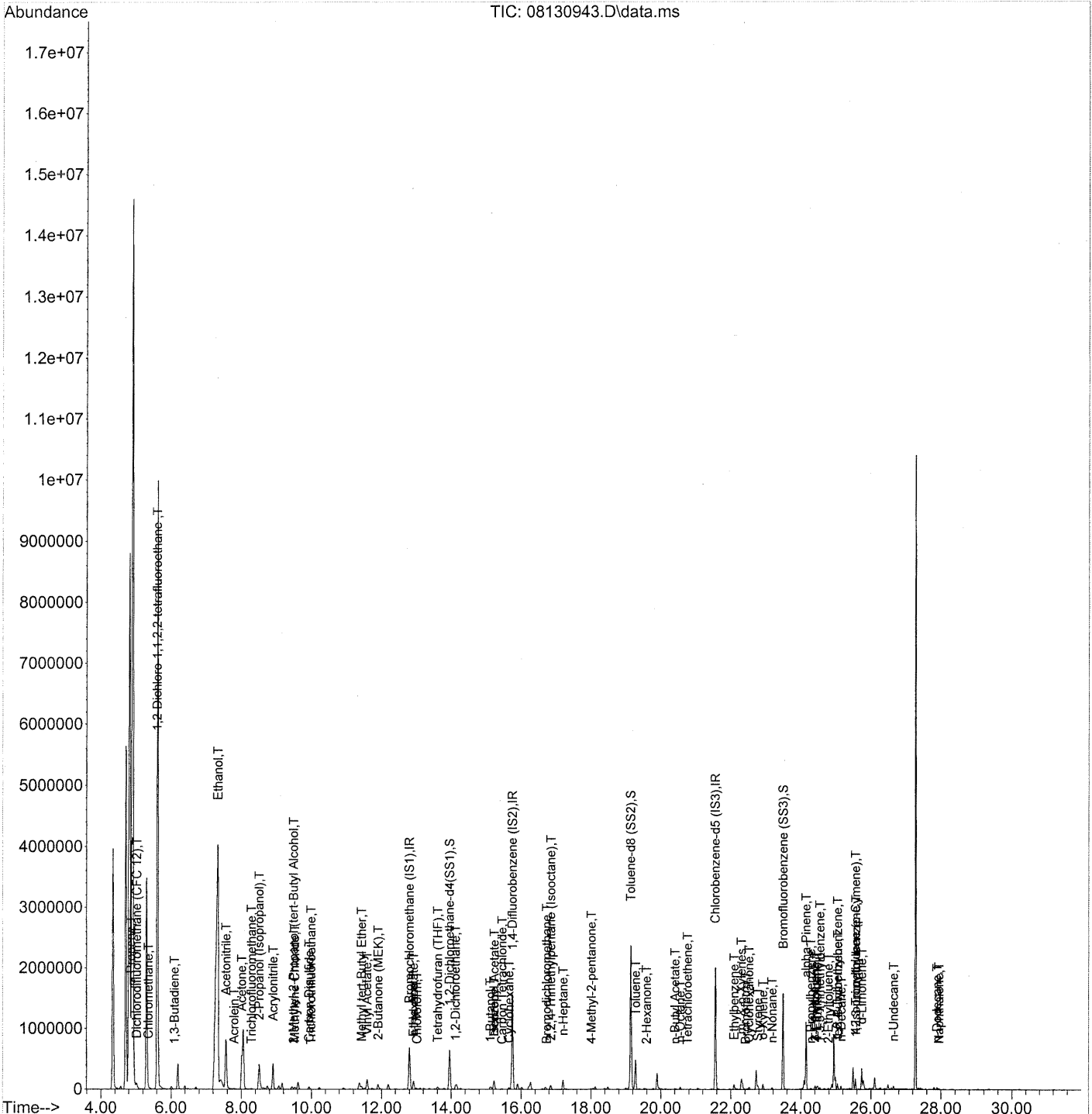
Date: _____

8/24/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:17:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	362665	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1836641	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	870301	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	640024	24.959	ng	-0.03
Spiked Amount	25.000			Recovery =	99.84%	
57) Toluene-d8 (SS2)	19.14	98	2107366	25.471	ng	-0.02
Spiked Amount	25.000			Recovery =	101.88%	
73) Bromofluorobenzene (SS3)	23.49	174	573251	24.465	ng	0.00
Spiked Amount	25.000			Recovery =	97.88%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	148866m	4.679	ng	
3) Dichlorodifluoromethan...	5.02	85	53240	1.172	ng	99
4) Chloromethane	5.35	50	12348	0.292	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	29246	1.219	ng	98
6) Vinyl Chloride	5.81	62	105	N.D.		
7) 1,3-Butadiene	6.09	54	1532	0.052	ng	# 39
8) Bromomethane	6.59	94	390	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.33	45	11748289	588.717	ng	See Dil 99
11) Acetonitrile	7.56	41	1313619	26.973	ng	100
12) Acrolein	7.79	56	11954	0.919	ng	98
13) Acetone	8.01	58	342503	16.866	ng	# 43
14) Trichlorofluoromethane	8.29	101	12128	0.312	ng	92
15) 2-Propanol (Isopropanol)	8.50	45	874444	15.724	ng	95
16) Acrylonitrile	8.90	53	5642	0.191	ng	# 28
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	30401	0.538	ng	# 75
19) Methylene Chloride	9.52	84	14985	0.591	ng	88
20) 3-Chloro-1-propene (Al...	9.73	41	456	N.D.		
21) Trichlorotrifluoroethane	9.99	151	1441	0.083	ng	95
22) Carbon Disulfide	9.93	76	79713	0.892	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	104	N.D.		
25) Methyl tert-Butyl Ether	11.43	73	8467	0.122	ng	98
26) Vinyl Acetate	11.59	86	5787	1.316	ng	# 1
27) 2-Butanone (MEK)	11.90	72	39269	2.774	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	411	N.D.		
30) Ethyl Acetate	12.92	61	7390	0.805	ng	99
31) n-Hexane	12.92	57	69355	1.550	ng	95

12

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:17:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev (Min)
32) Chloroform	13.02	83	7096	0.189 ng	97
34) Tetrahydrofuran (THF)	13.61	72	10456	0.710 ng #	39
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	14.13	62	59799	2.086 ng	98
38) 1,1,1-Trichloroethane	14.53	97	113	N.D.	
39) Isopropyl Acetate	15.23	61	883	0.059 ng #	1
40) 1-Butanol	15.11	56	37712	1.585 ng	86
41) Benzene	15.22	78	177565	1.798 ng	97
42) Carbon Tetrachloride	15.46	117	2967	0.107 ng	91
43) Cyclohexane	15.65	84	13645	0.357 ng #	81
44) tert-Amyl Methyl Ether	16.13	73	104	N.D.	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	
46) Bromodichloromethane	16.73	83	2463	0.085 ng #	18
47) Trichloroethene	0.00	130	0	N.D.	
48) 1,4-Dioxane	0.00	88	0	N.D.	
49) 2,2,4-Trimethylpentane...	16.85	57	70558	0.621 ng	94
50) Methyl Methacrylate	0.00	100	0	N.D. d	
51) n-Heptane	17.20	71	46110	1.754 ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	18.01	58	5058	0.237 ng	74
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	19.28	91	466802	4.654 ng	99
59) 2-Hexanone	19.59	43	6162	0.118 ng #	22
60) Dibromochloromethane	19.82	129	262	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) n-Butyl Acetate	20.40	43	17225	0.303 ng	94
63) n-Octane	20.56	57	8108	0.363 ng	86
64) Tetrachloroethene	20.76	166	1718	0.069 ng	91
65) Chlorobenzene	21.61	112	1688	N.D.	
66) Ethylbenzene	22.09	91	76186	0.704 ng	98
67) m- & p-Xylenes	22.30	91	178401	2.078 ng	99
68) Bromoform	22.42	173	2955	0.159 ng	94
69) Styrene	22.77	104	33747	0.532 ng	98
70) o-Xylene	22.92	91	60367	0.699 ng	96
71) n-Nonane	23.17	43	14179	0.273 ng	84
72) 1,1,2,2-Tetrachloroethane	22.98	83	468	N.D.	
74) Cumene	23.65	105	5055	N.D.	
75) alpha-Pinene	24.15	93	526640	9.533 ng	98
76) n-Propylbenzene	24.28	91	16639	0.120 ng	96
77) 3-Ethyltoluene	24.41	105	40146	0.383 ng	98
78) 4-Ethyltoluene	24.46	105	21494	0.204 ng	93
79) 1,3,5-Trimethylbenzene	24.55	105	15257	0.175 ng	95

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:17:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

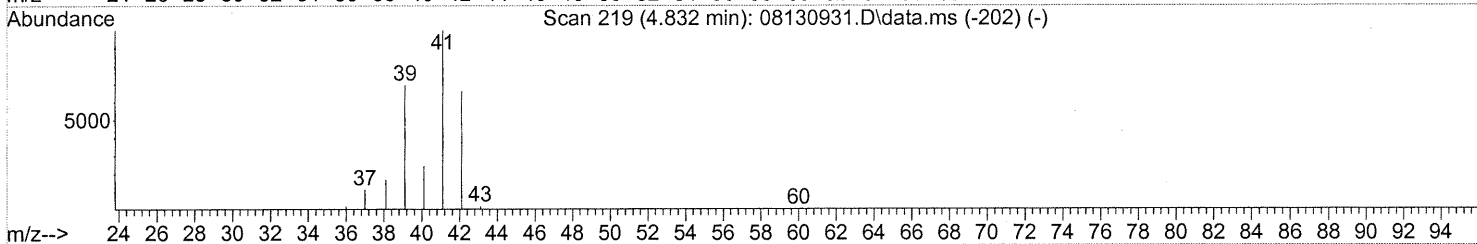
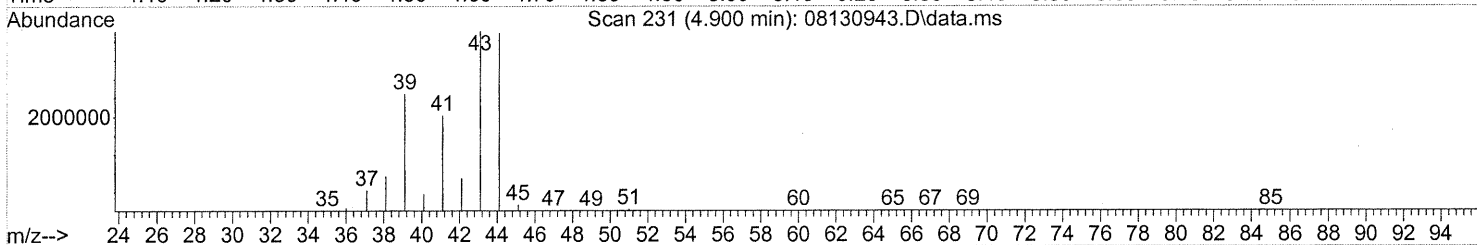
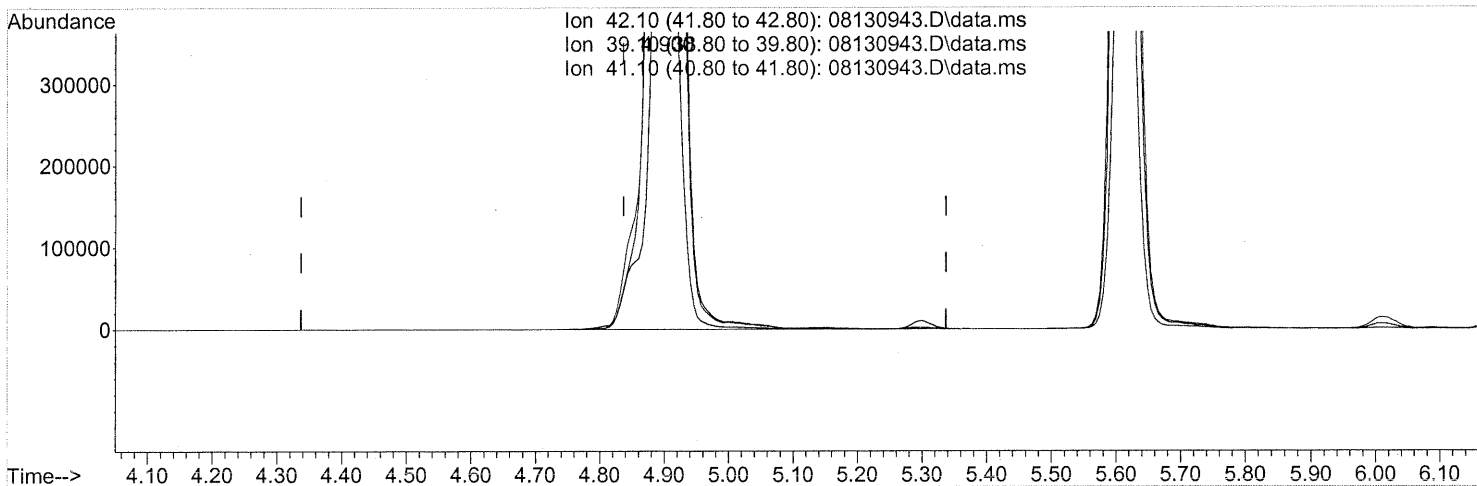
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	594	N.D.		
81) 2-Ethyltoluene	24.79	105	17027	0.157 ng		94
82) 1,2,4-Trimethylbenzene	25.05	105	50751	0.548 ng		89
83) n-Decane	25.15	57	21234	0.394 ng		92
84) Benzyl Chloride	25.22	91	524	N.D.		
85) 1,3-Dichlorobenzene	25.25	146	254	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	956	N.D.		
87) sec-Butylbenzene	25.38	105	2720	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	90967	0.778 ng		95
89) 1,2,3-Trimethylbenzene	25.57	105	17158	0.183 ng	#	50
90) 1,2-Dichlorobenzene	25.74	146	348	N.D.		
91) d-Limonene	25.74	68	92458	2.441 ng		95
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	16111	0.289 ng	#	69
94) 1,2,4-Trichlorobenzene	27.80	180	481	N.D.		
95) Naphthalene	27.94	128	13714	0.110 ng		98
96) n-Dodecane	27.89	57	11645	0.187 ng		88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	19549	0.619 ng		90
99) tert-Butylbenzene	25.05	119	6655	0.072 ng	#	54
100) n-Butylbenzene	26.07	91	4590	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:14:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(2) Propene (T)

4.900min (+0.063) 64.33ng

response 2046514

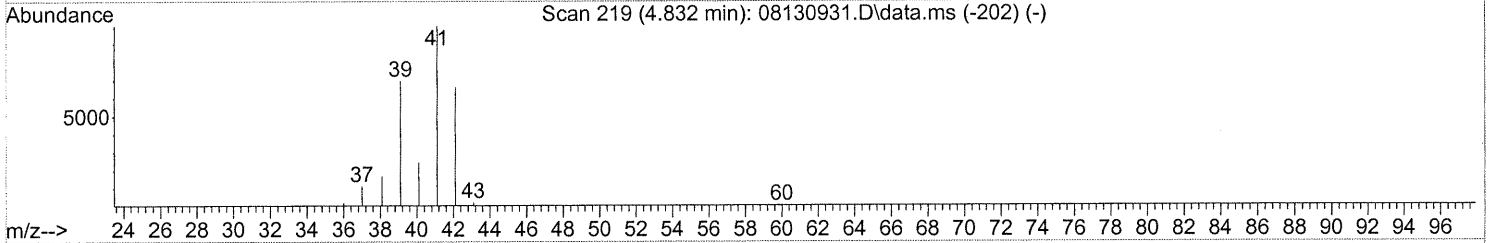
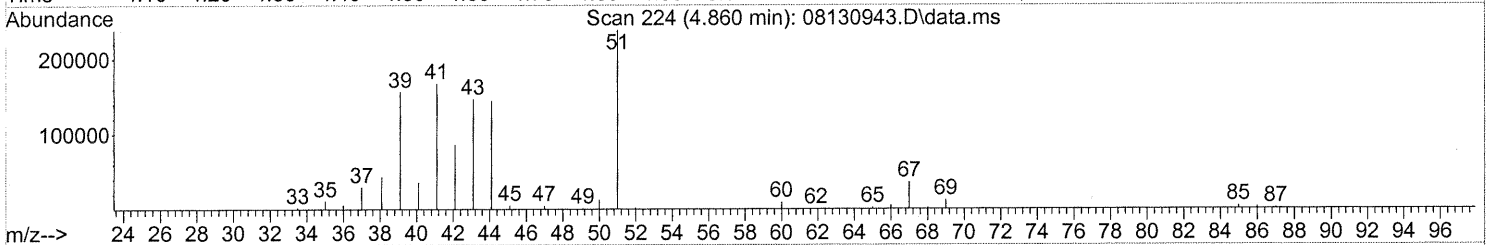
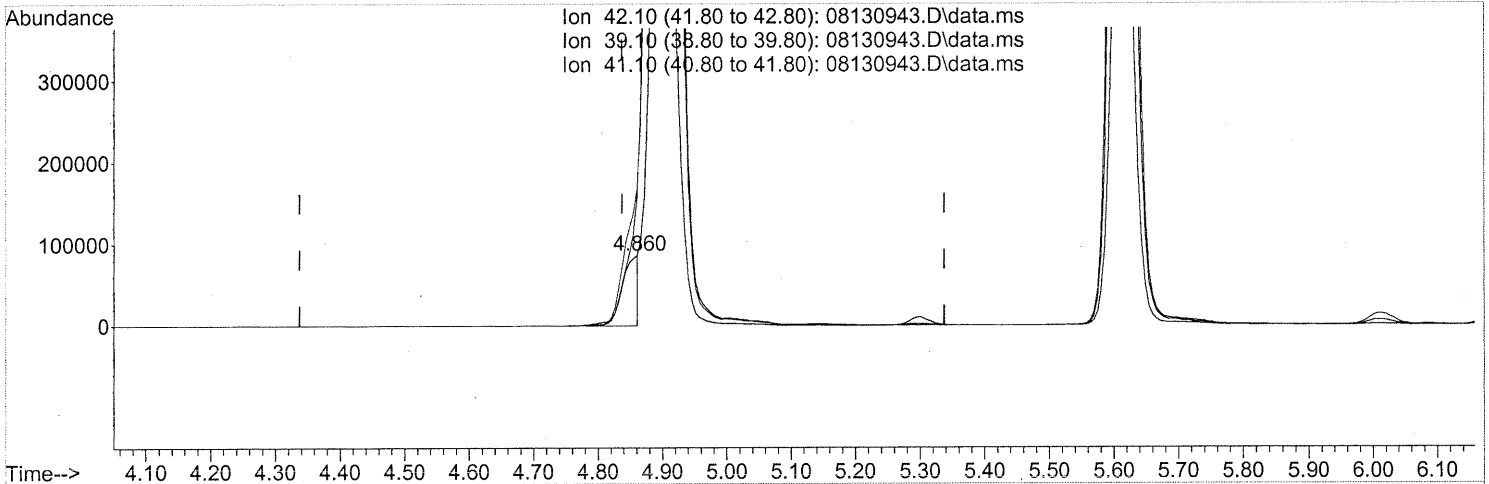
SH

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	331.02#
41.10	152.70	280.54#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:14:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(2) Propene (T)

4.860min (+0.023) 4.68ng m

response 148866

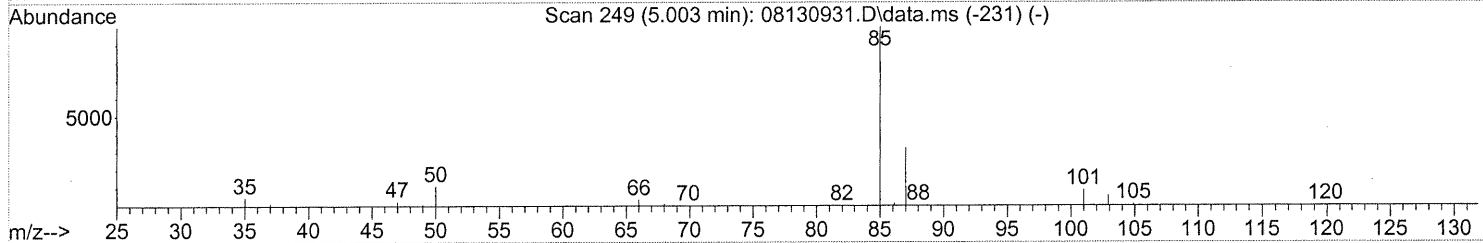
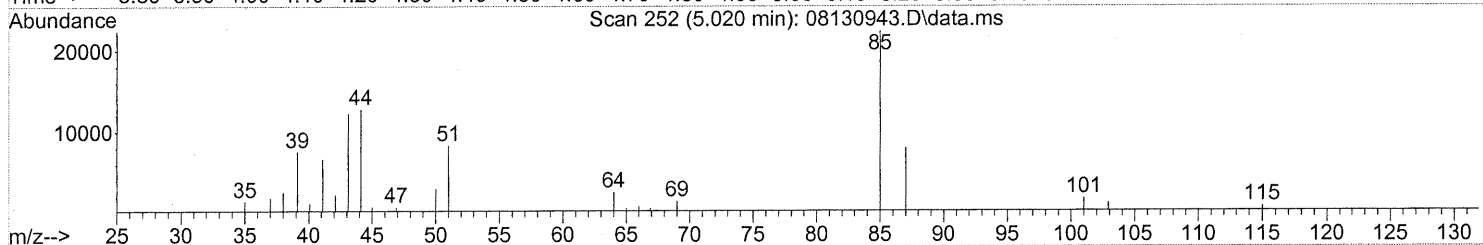
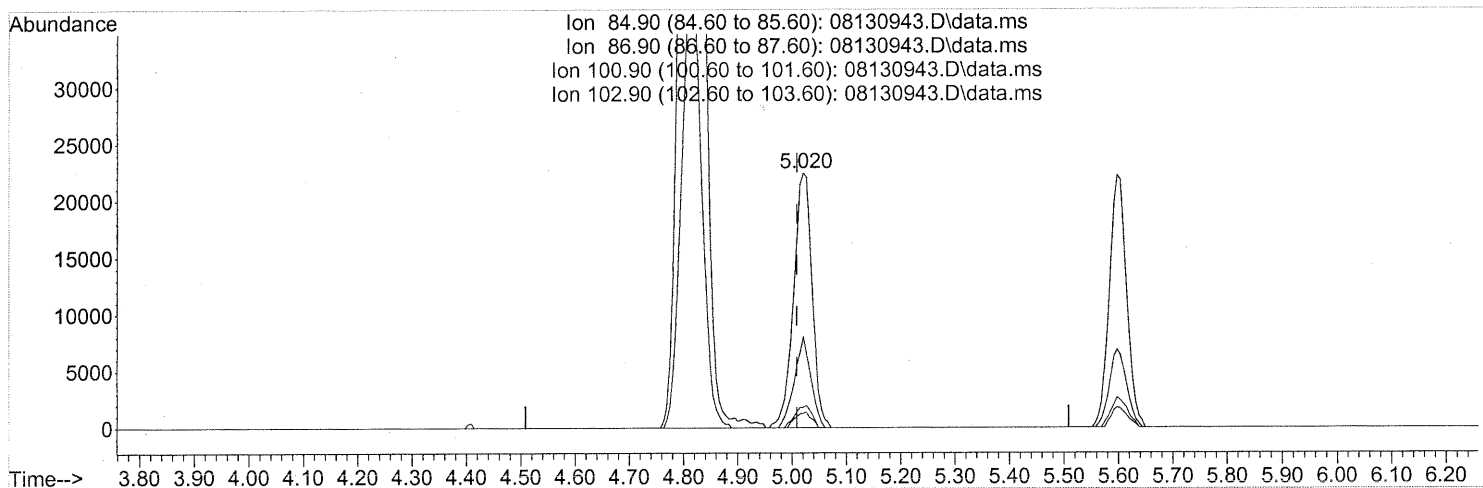
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	4550.66#
41.10	152.70	3856.73#
0.00	0.00	0.00

SH → IC
Em 8/18/09
M8118109

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.020min (+0.011) 1.17ng

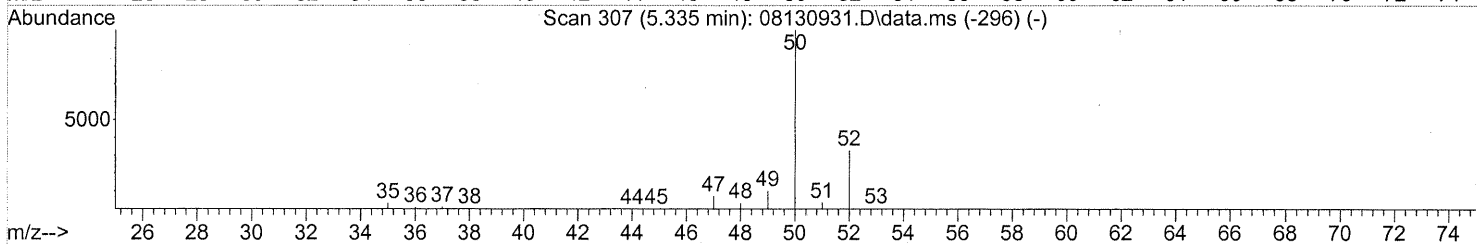
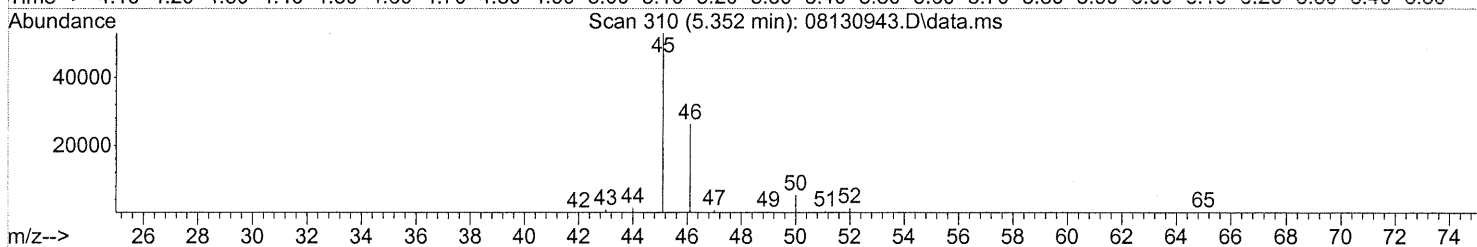
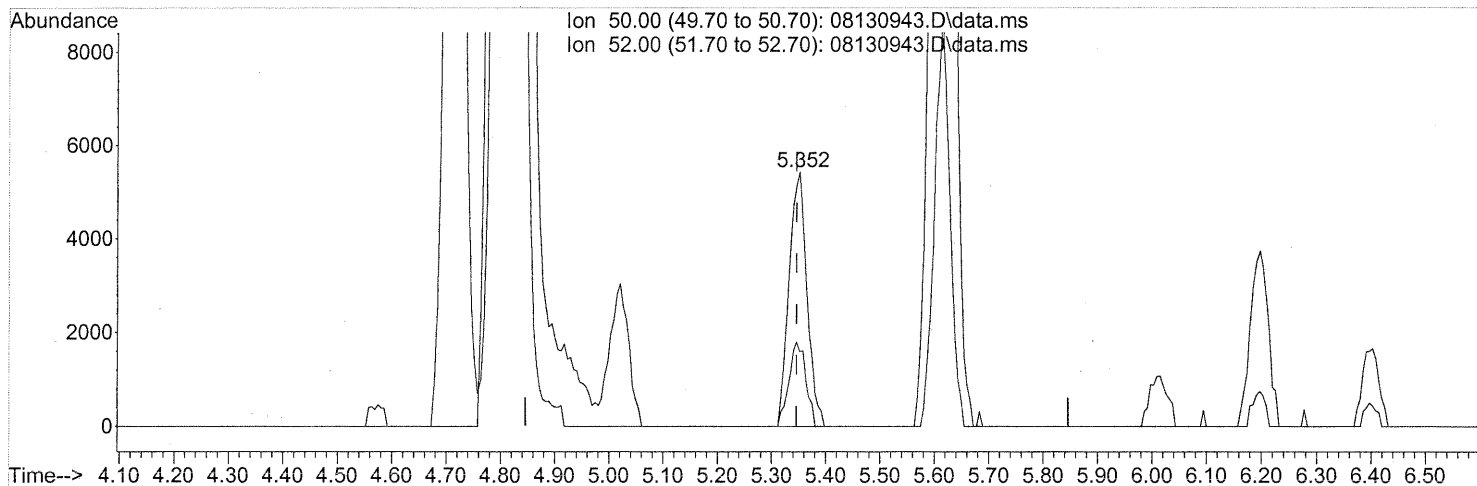
response 53240

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.70
100.90	9.10	7.82
102.90	5.50	5.22

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.352min (+0.006) 0.29ng
 response 12348

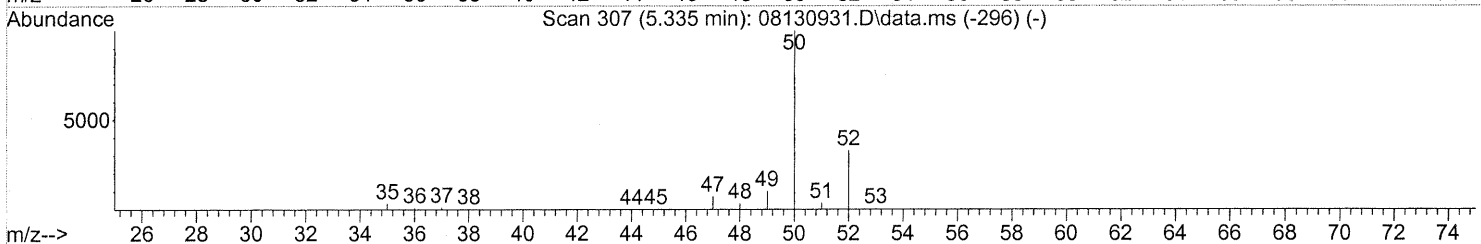
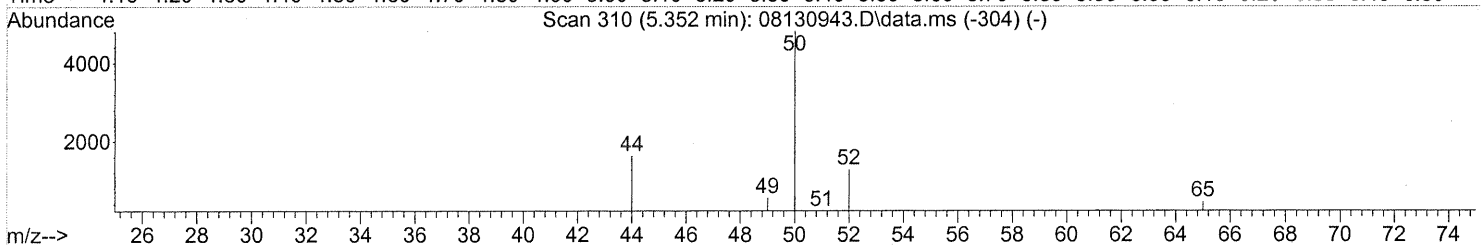
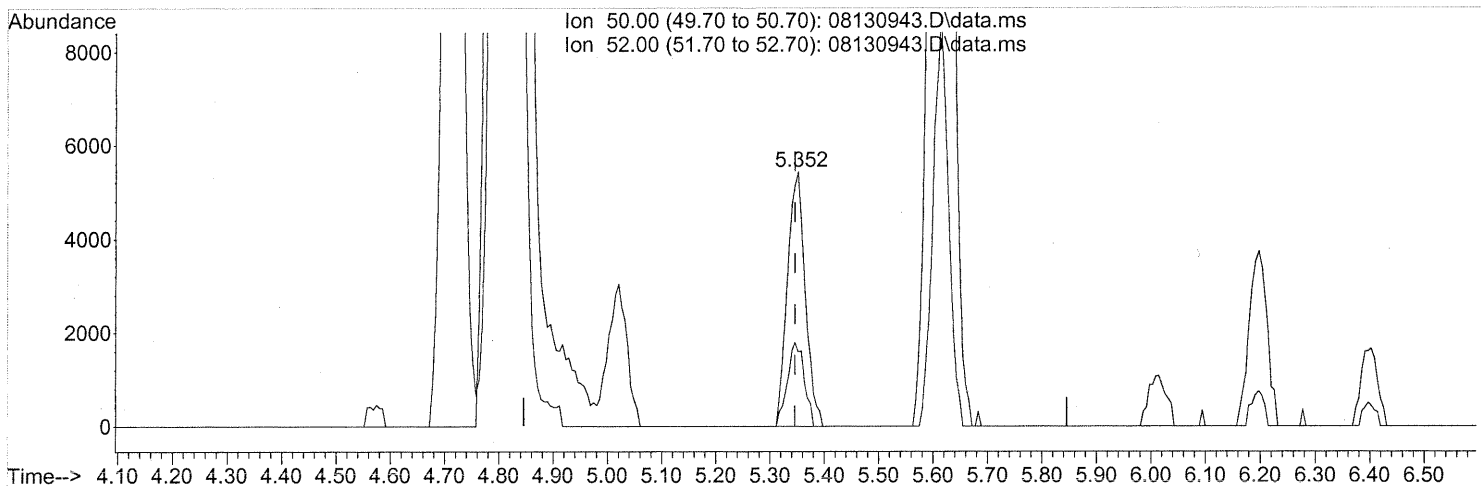
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.21
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(4) Chloromethane (T)
 5.352min (+0.006) 0.29ng
 response 12348

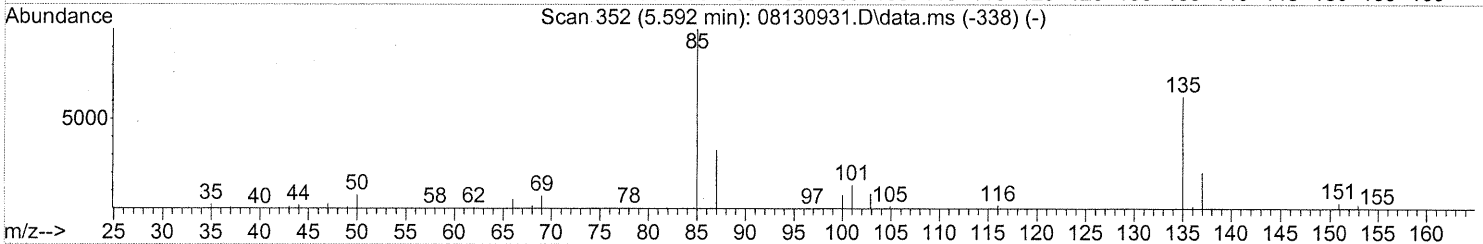
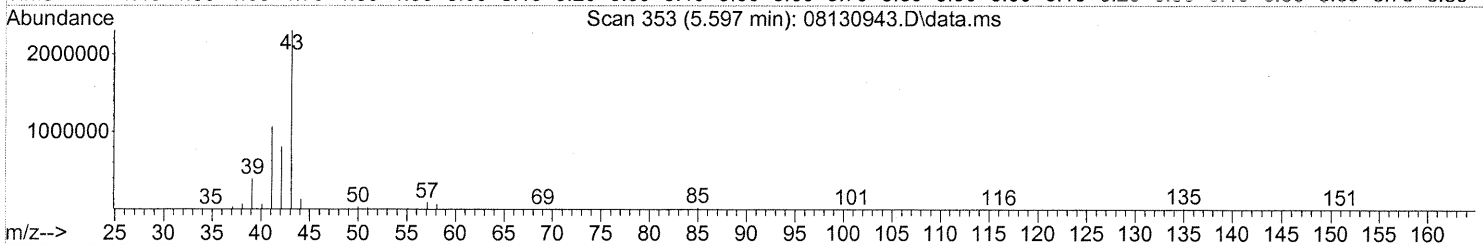
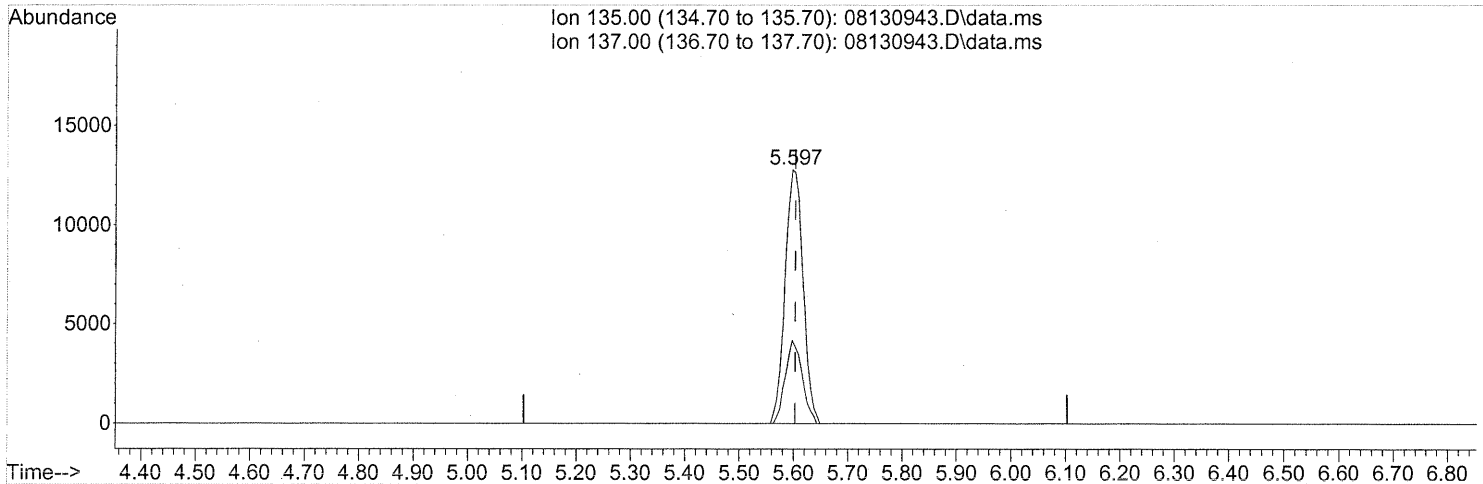
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.21
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 8/17/09
 m 8/18/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(5) 1,2-Dichloro-1,1,2,2-tetrafluoroethane (T)

5.597min (-0.006) 1.22ng

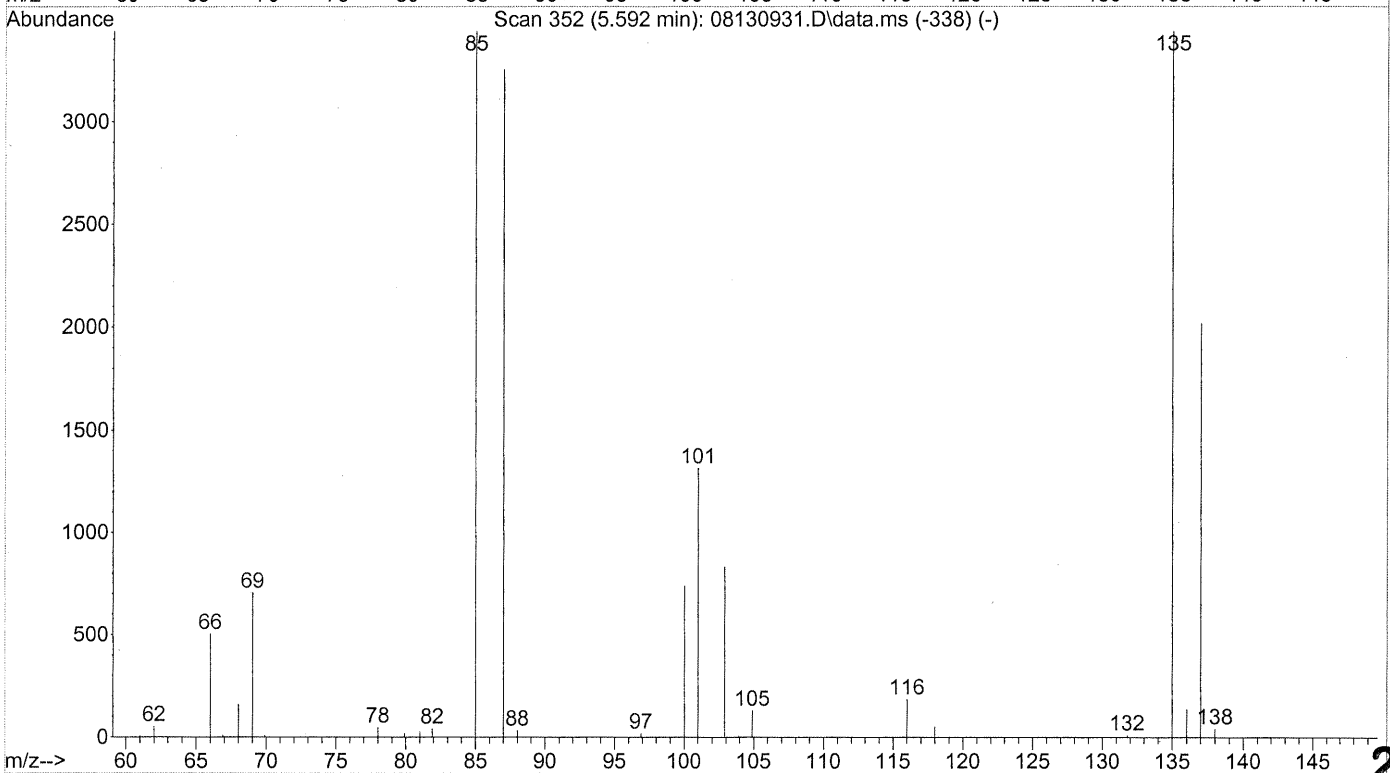
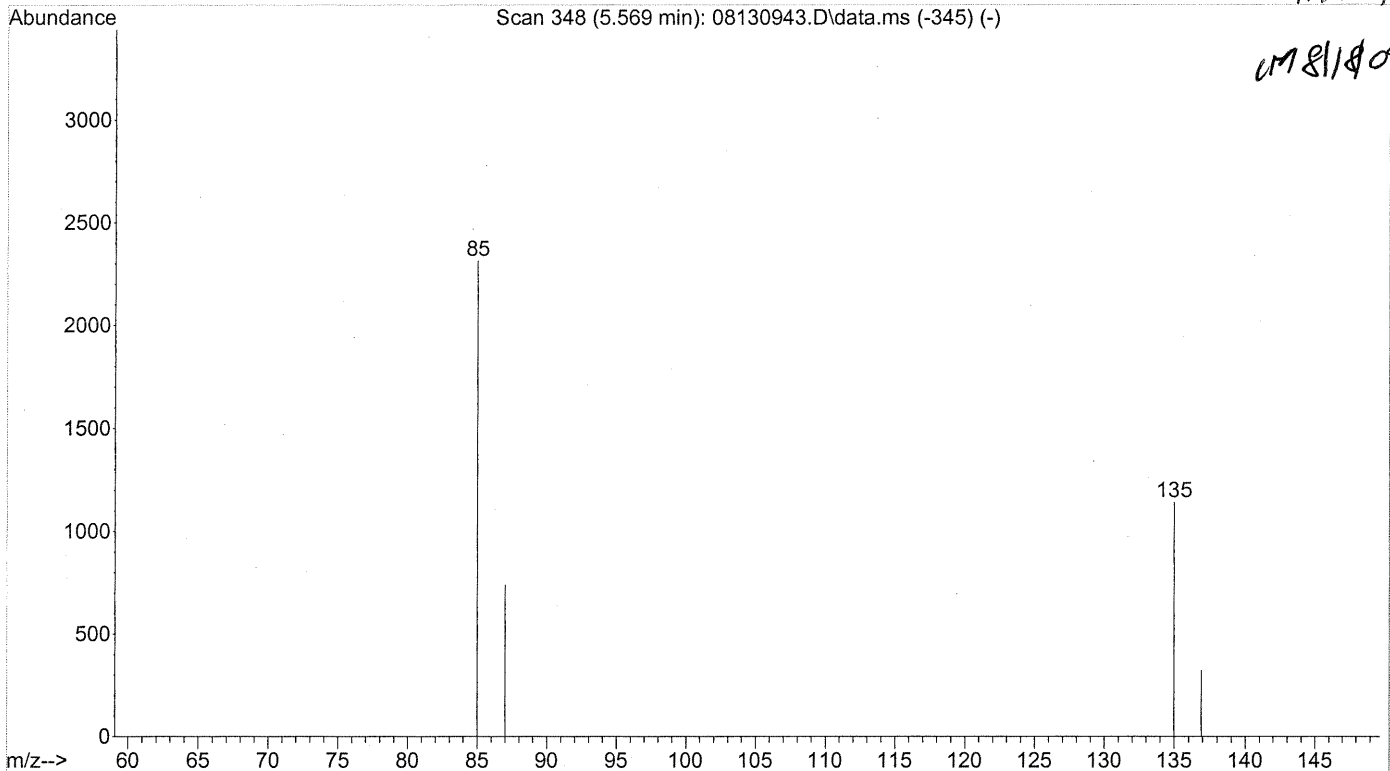
response 29246

Ion	Exp%	Act%
135.00	100	100
137.00	31.90	30.90
0.00	0.00	0.00
0.00	0.00	0.00

*Before subtraction and
blown up.*

File : J:\MS09\Data\2009_08\13\08130943.D
Operator : EM
Acquired : 14 Aug 2009 14:59 using AcqMethod TO15LOW.M
Instrument : MS09
Sample Name: P0902720-001 (200ml)
Misc Info : Environmental H & E 99934
Vial Number: 9

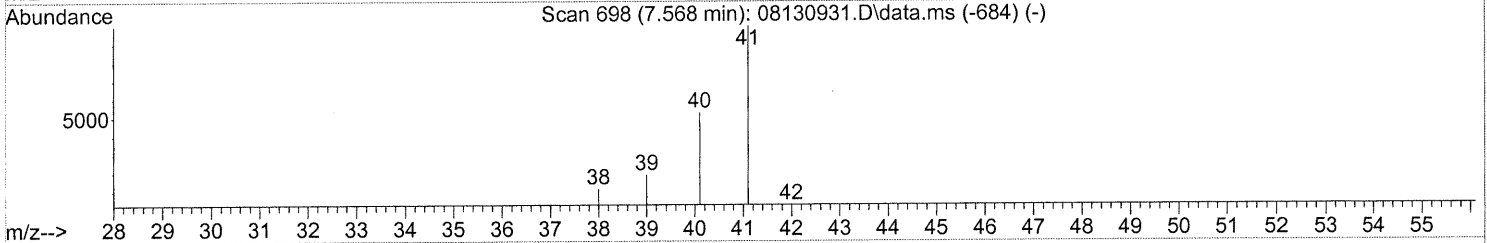
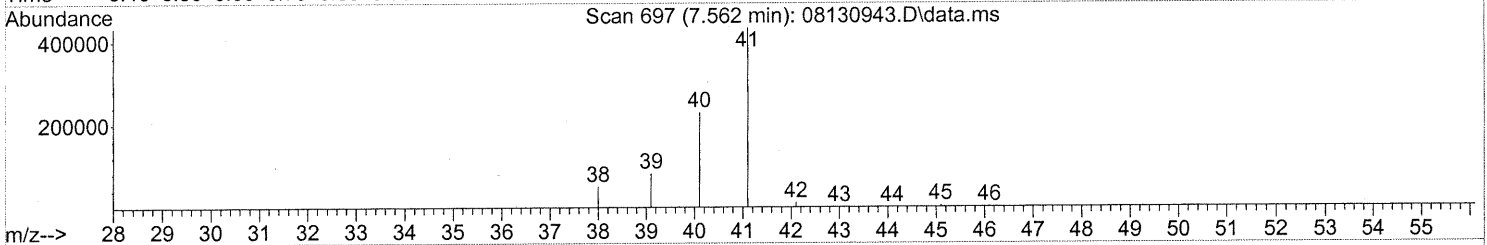
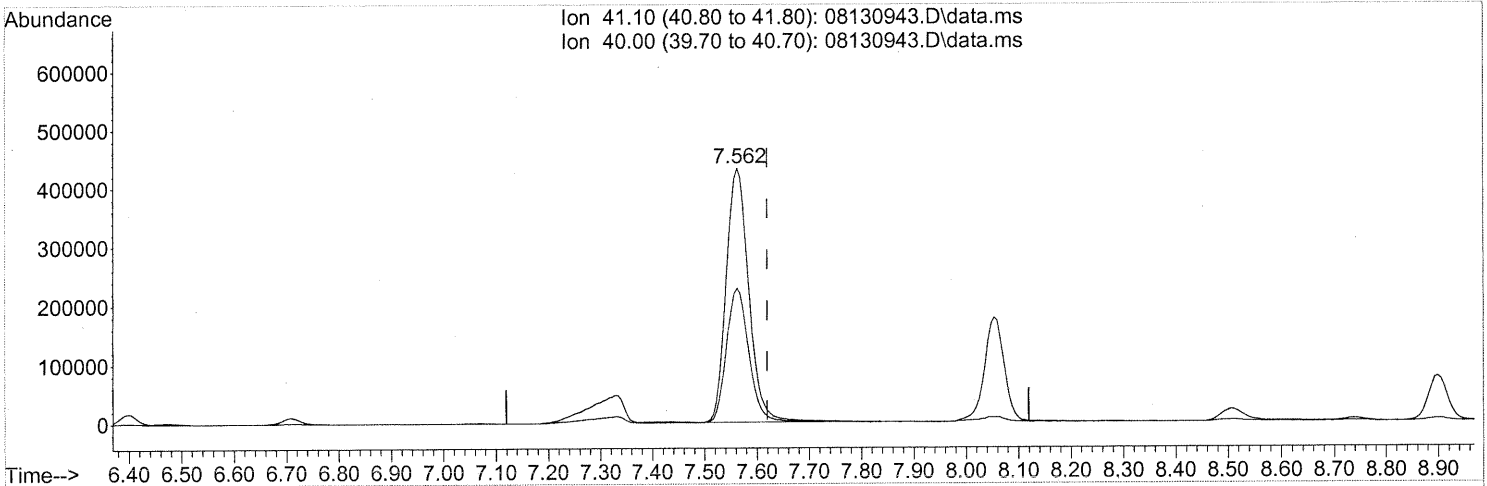
After subtraction
and blown up. em
8/17/09
em 8/18/09



Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

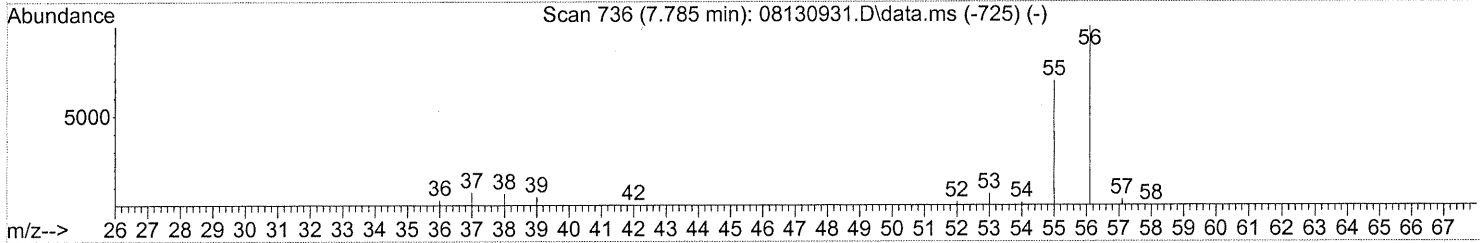
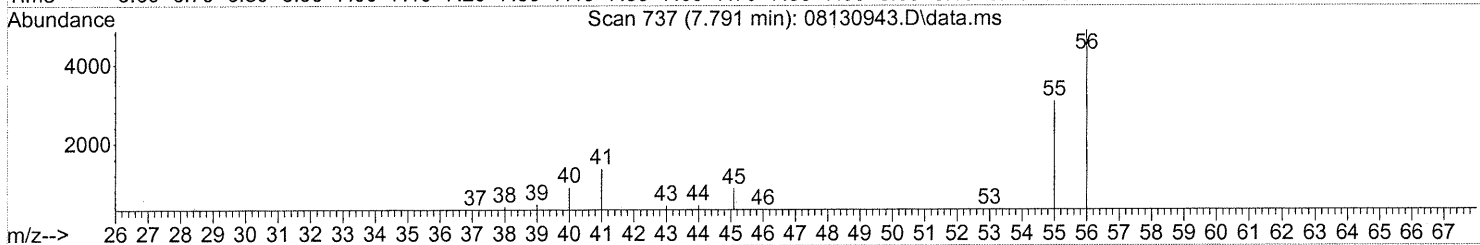
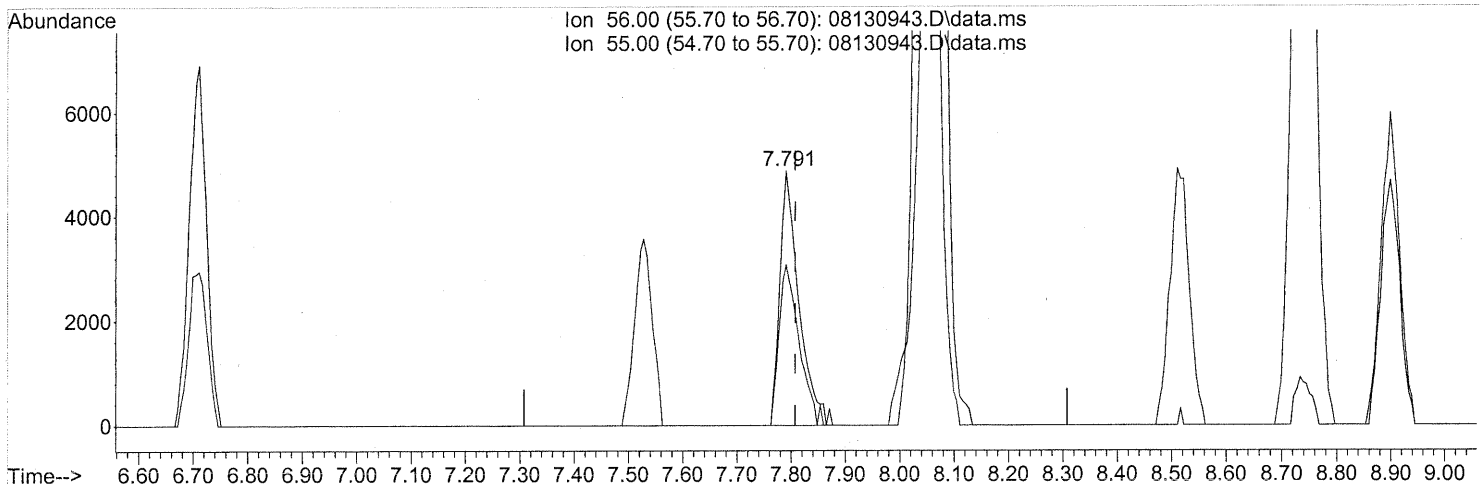
(11) Acetonitrile (T)
 7.562min (-0.057) 26.97ng
 response 1313619

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	53.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(12) Acrolein (T)

7.791min (-0.017) 0.92ng

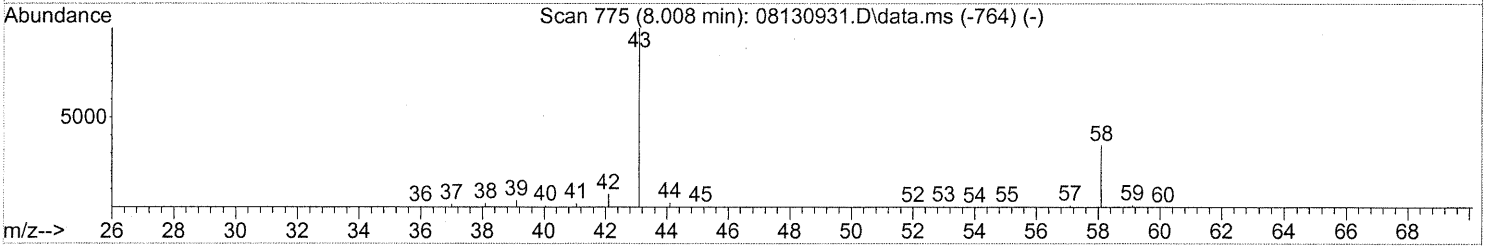
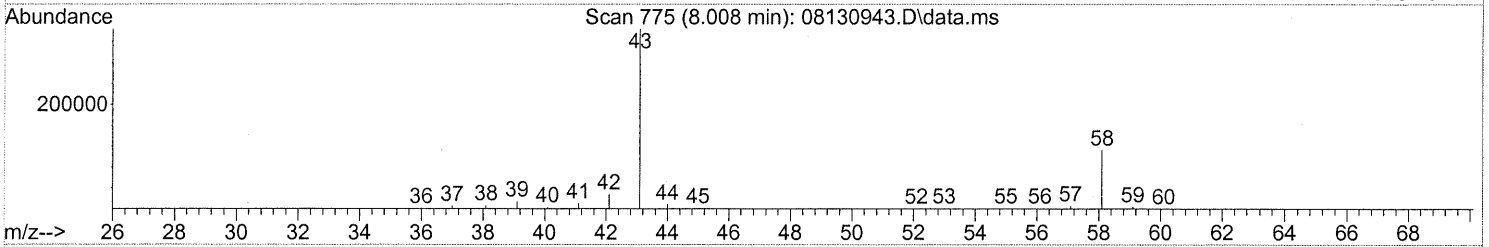
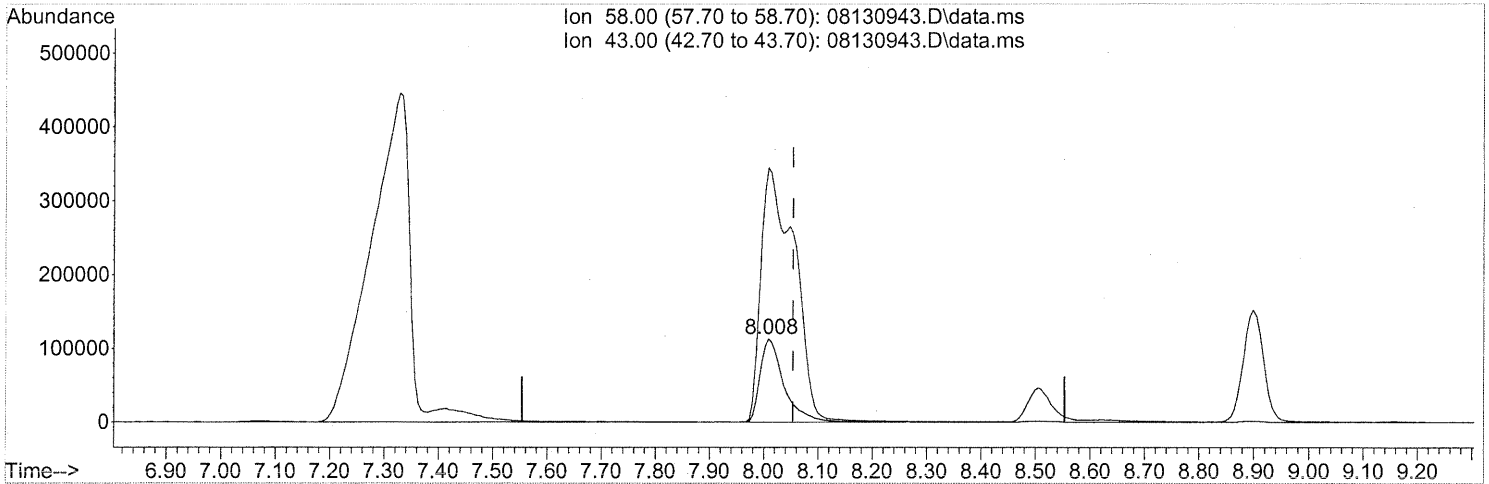
response 11954

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	66.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(13) Acetone (T)
 8.008min (-0.046) 16.87ng
 response 342503

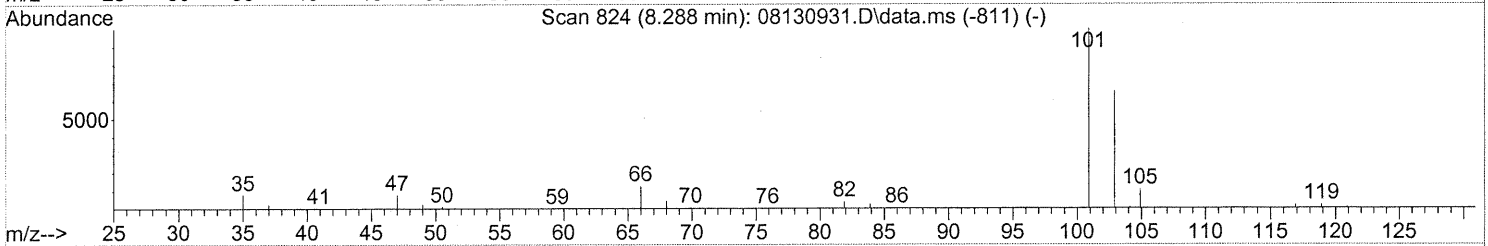
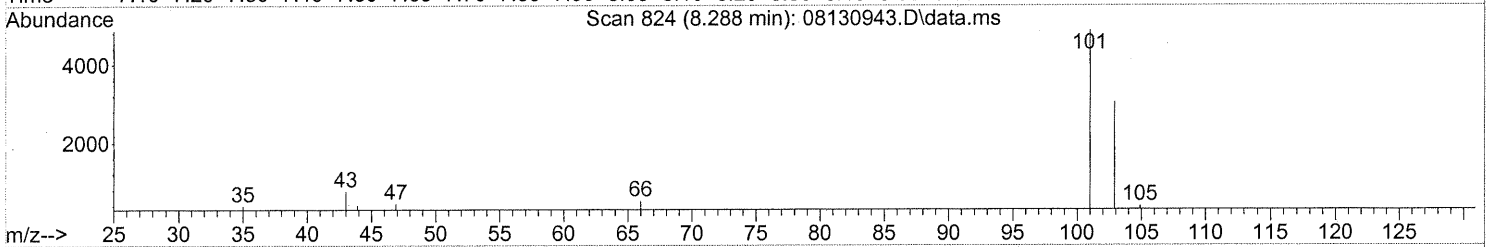
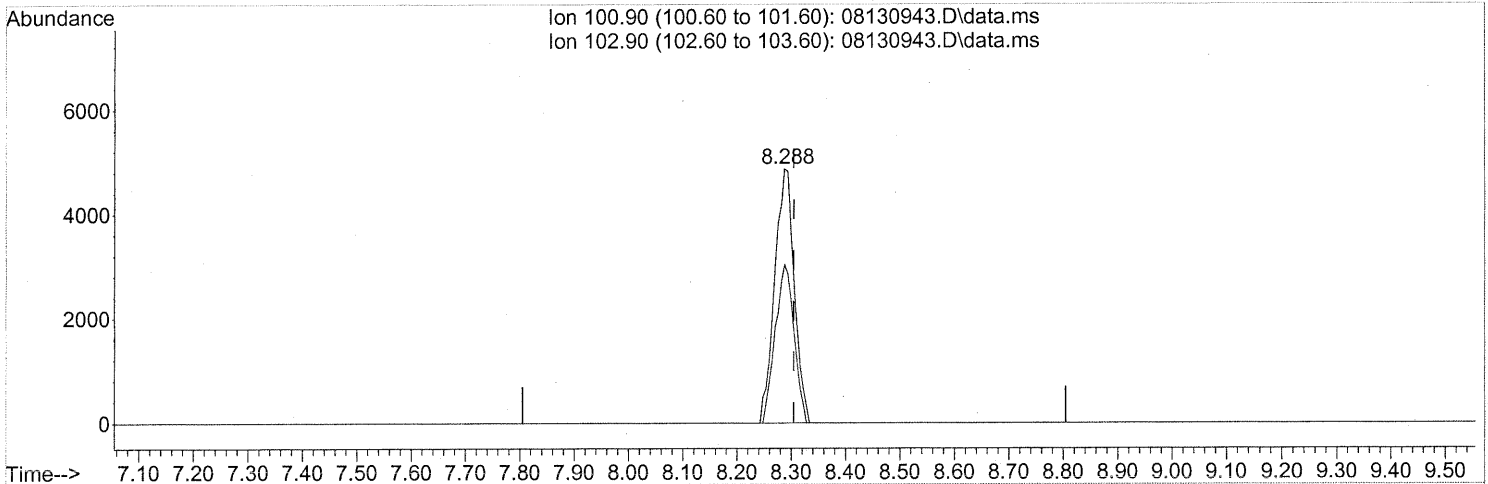
EM *EM* *8/21/09*

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	434.77#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 0.31ng

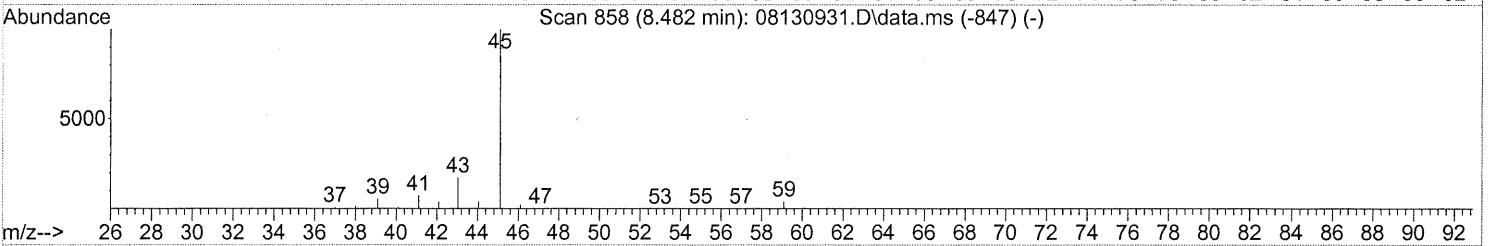
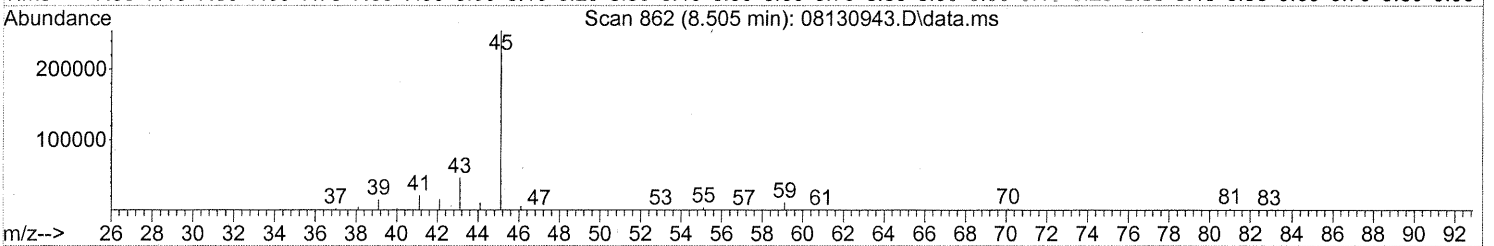
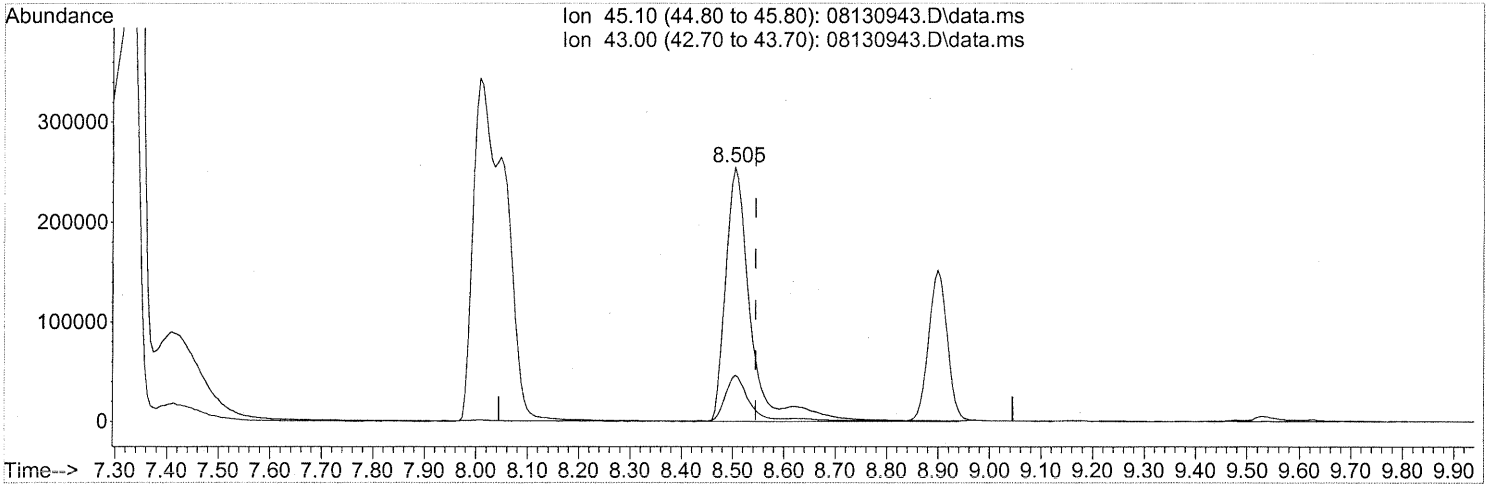
response 12128

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	59.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

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

8.505min (-0.040) 15.72ng

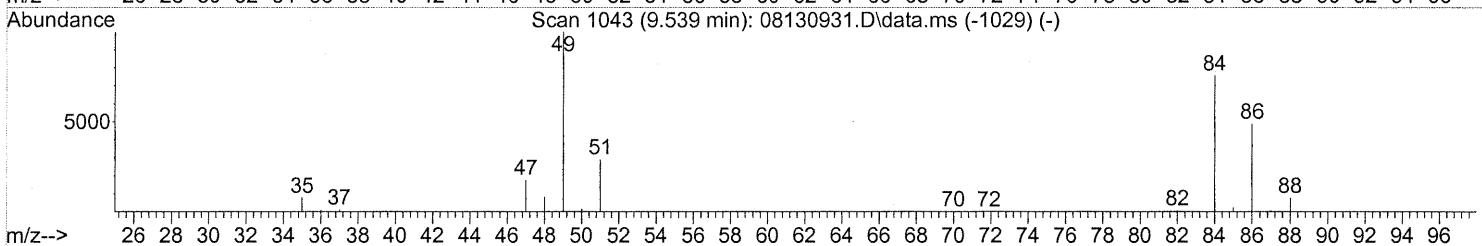
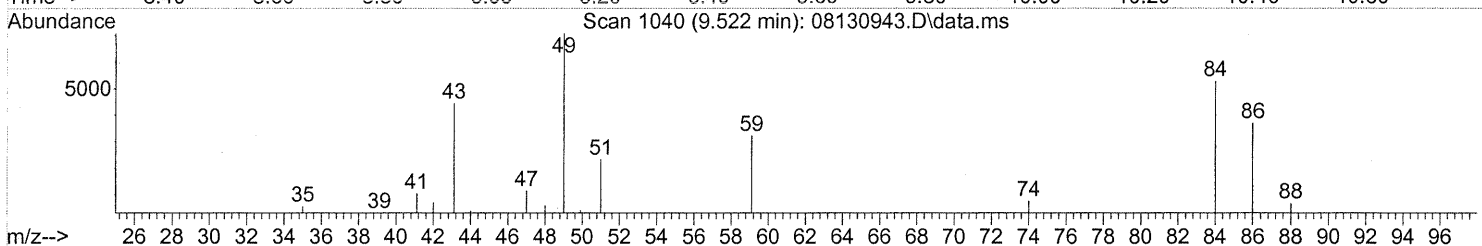
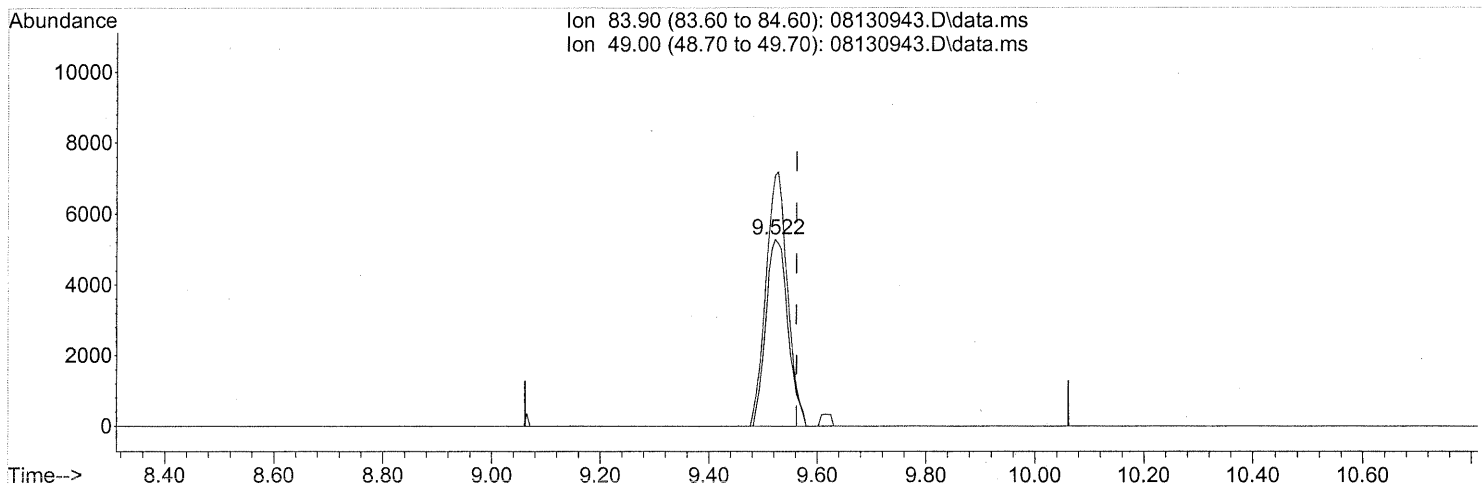
response 874444

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(19) Methylene Chloride (T)

9.522min (-0.040) 0.59ng

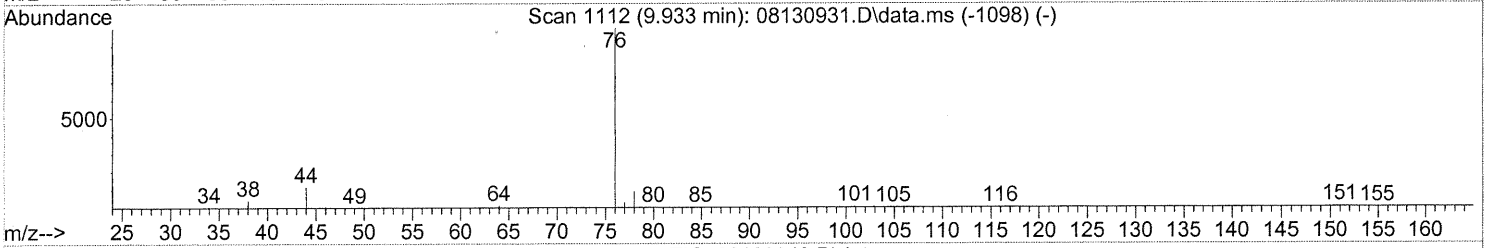
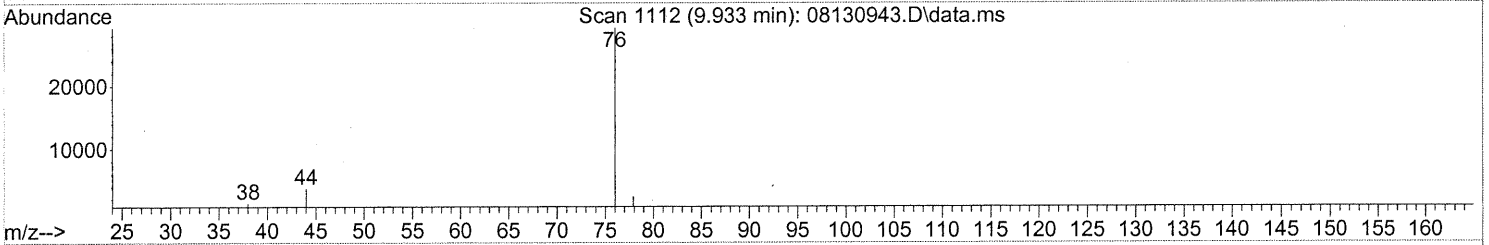
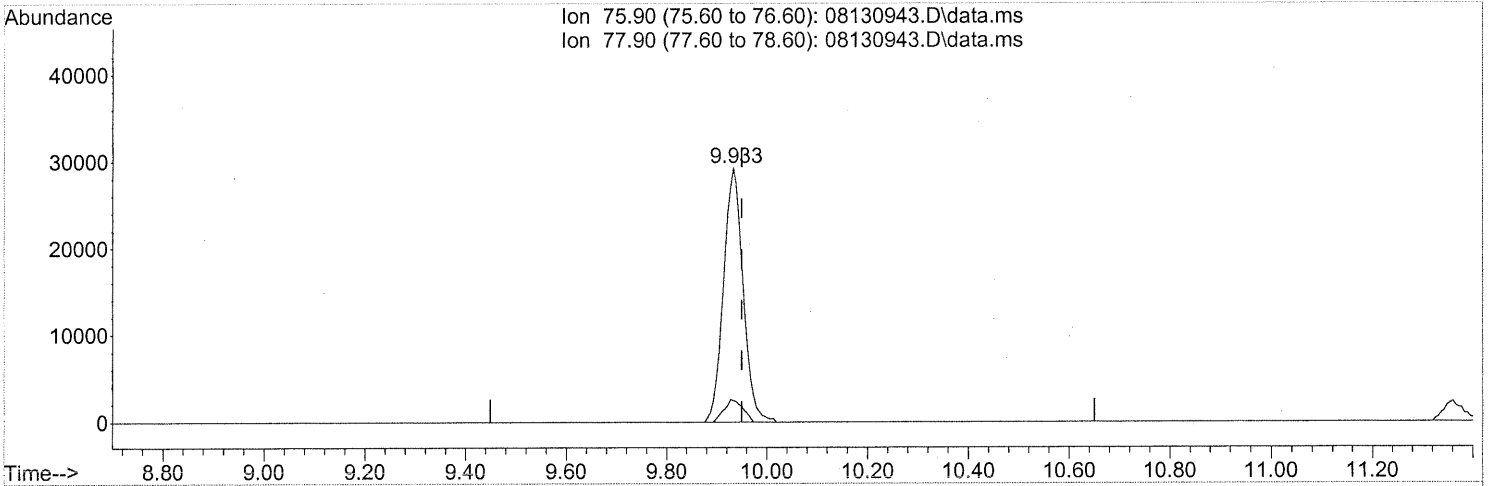
response 14985

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	132.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(22) Carbon Disulfide (T)

9.933min (-0.017) 0.89ng

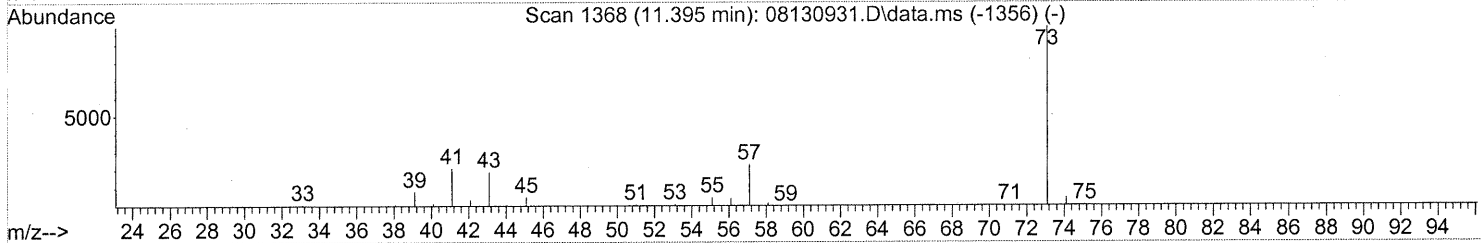
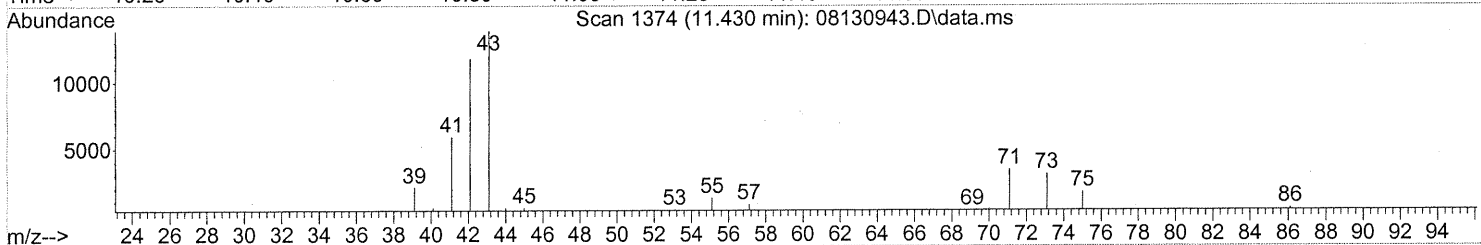
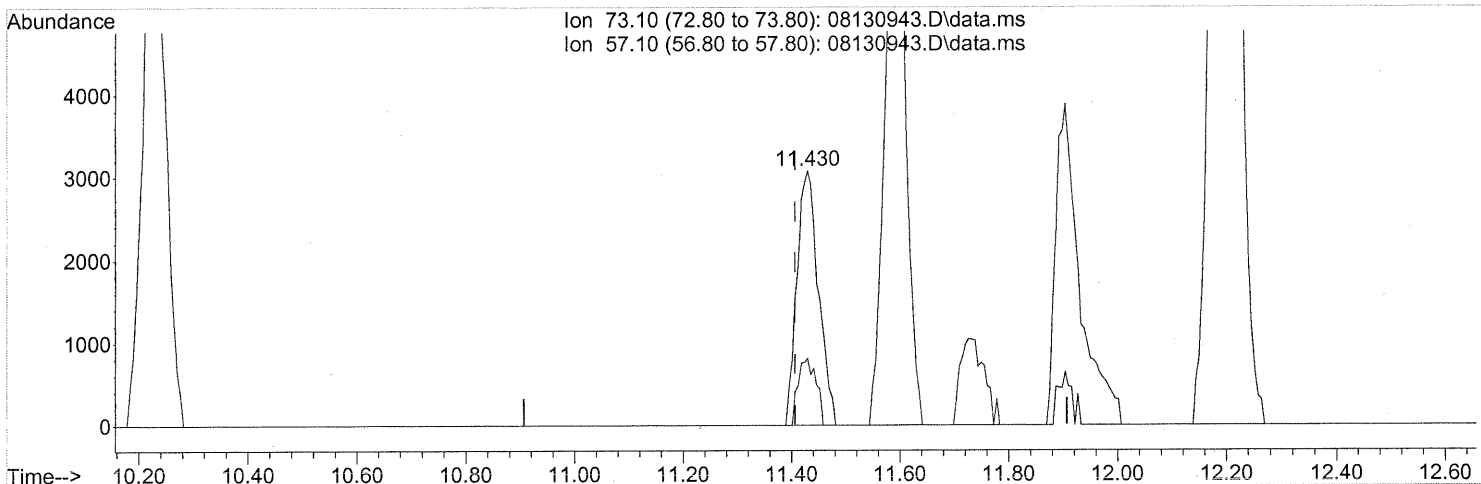
response 79713

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 11:29:18 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.430min (+0.023) 0.12ng

response 8467

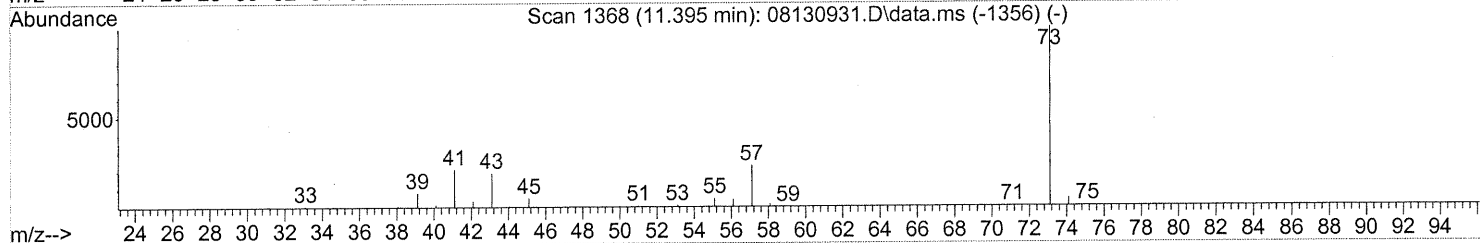
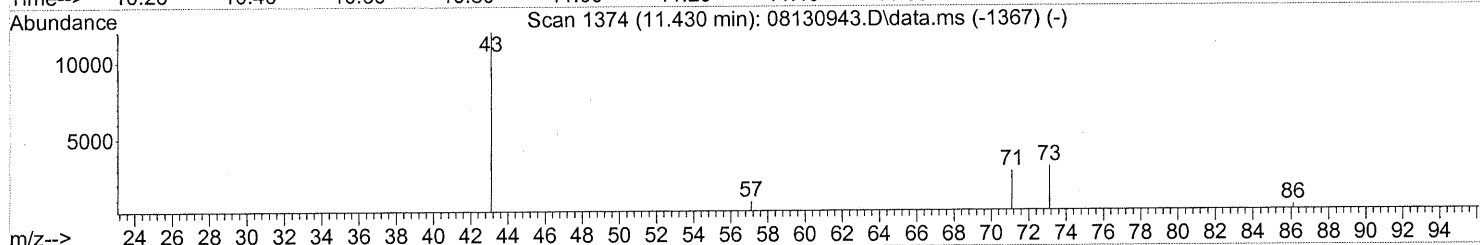
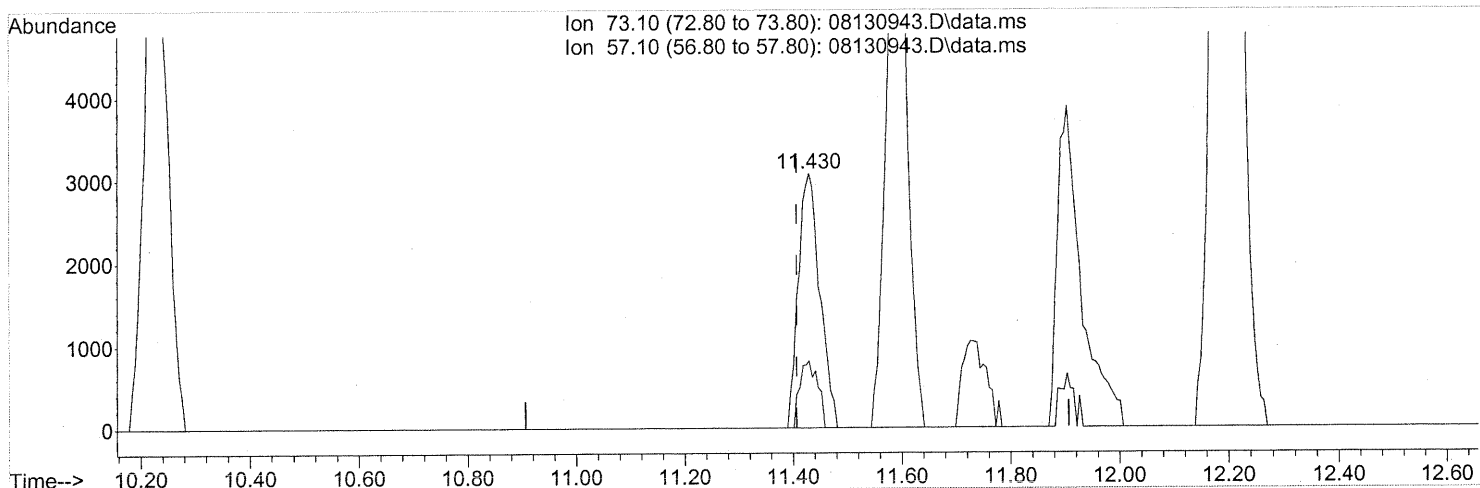
Ion	Exp%	Act%
73.10	100	100
57.10	21.10	21.94
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(25) Methyl tert-Butyl Ether (T)

11.430min (+0.023) 0.12ng

response 8467

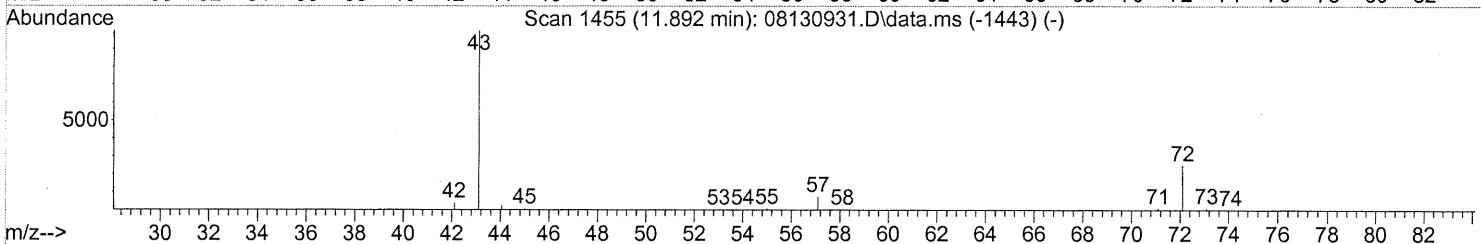
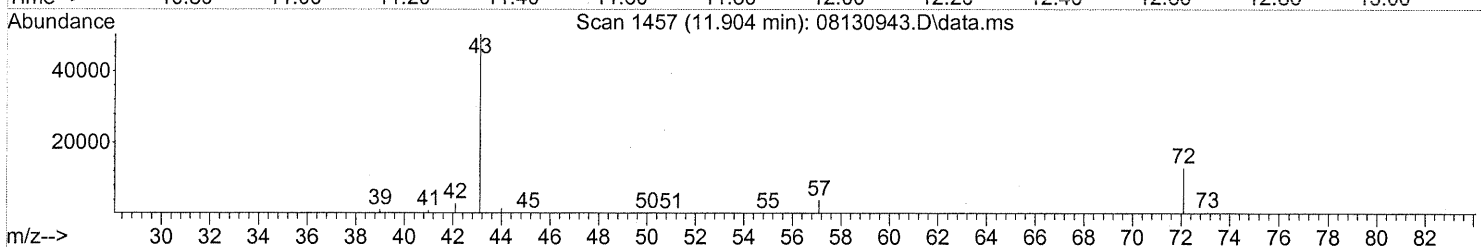
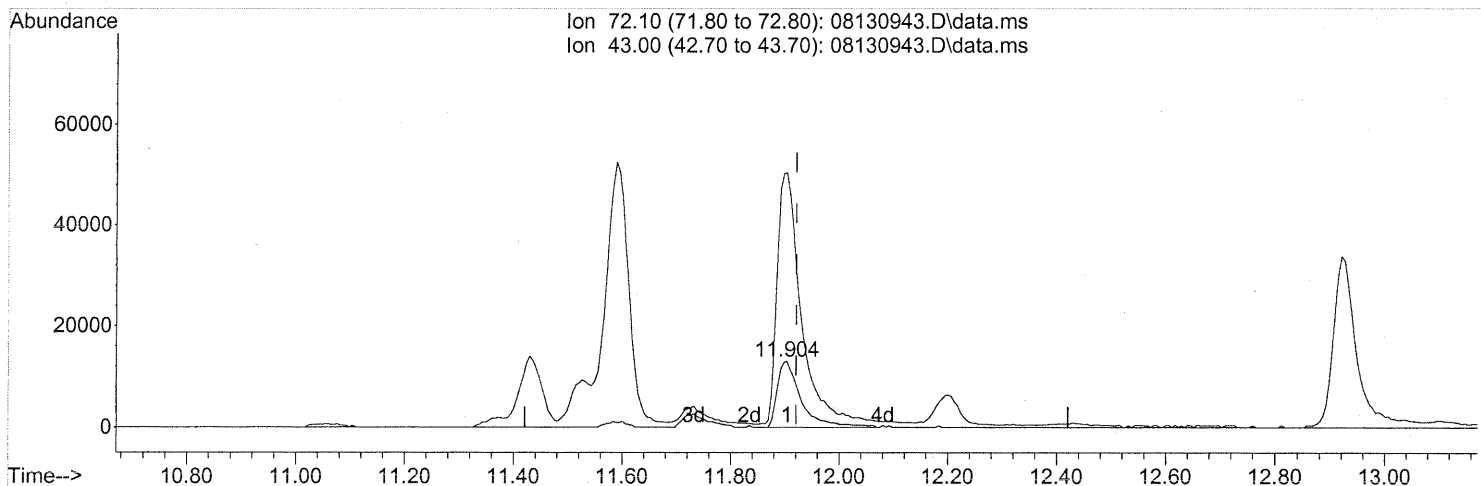
Ion	Exp%	Act%
73.10	100	100
57.10	21.10	21.94
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 8/17/09
um 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

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

11.904min (-0.017) 2.77ng

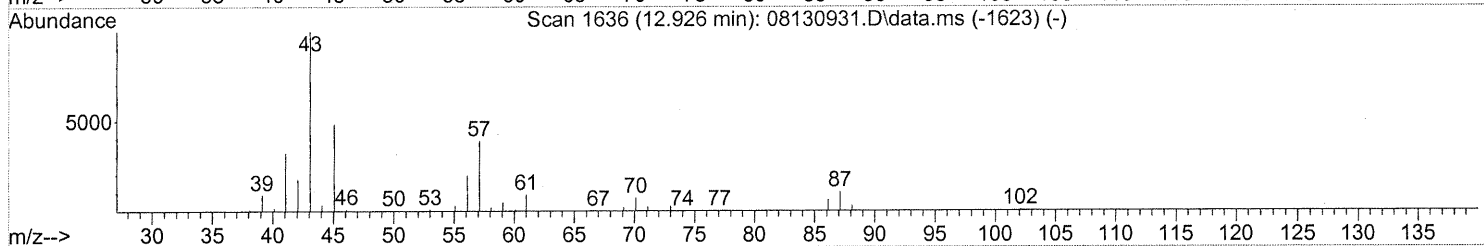
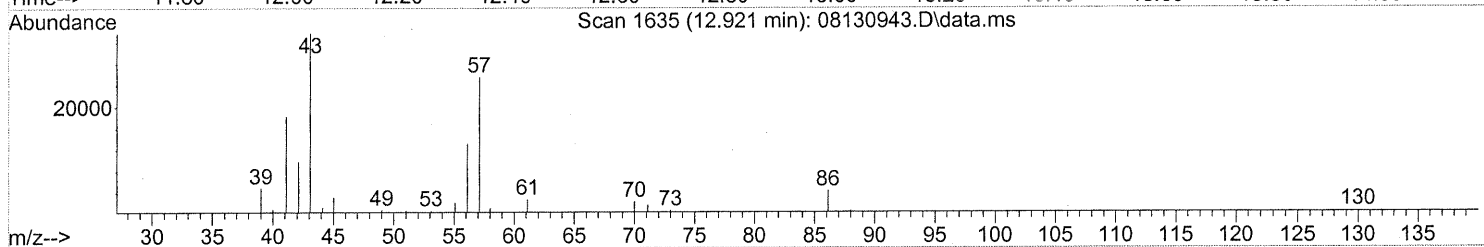
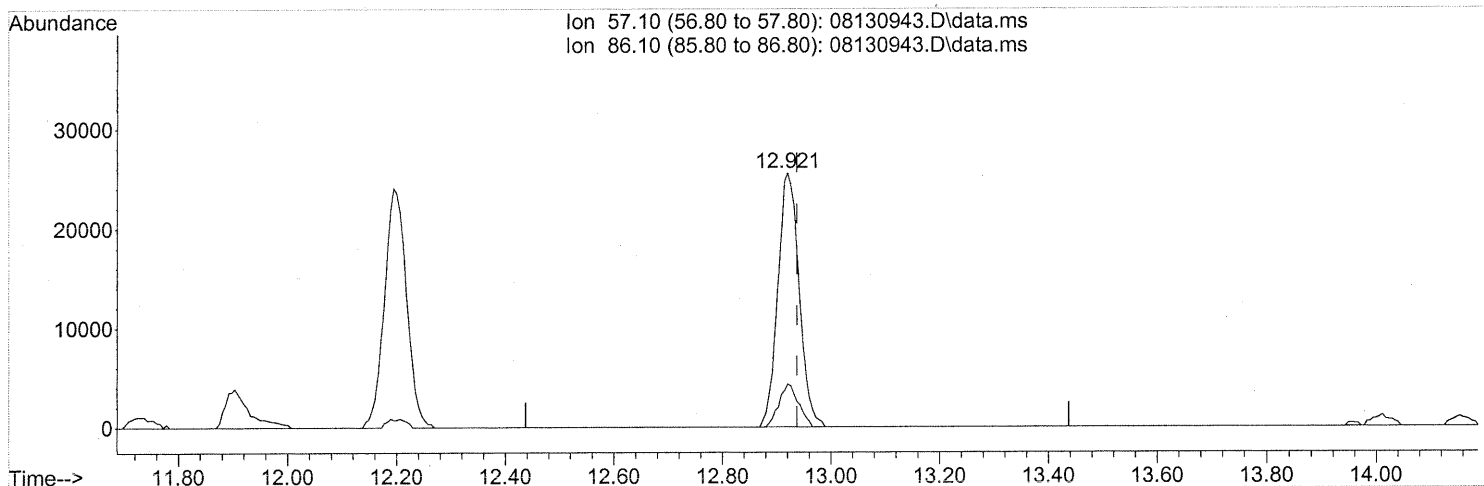
response 39269

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	392.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

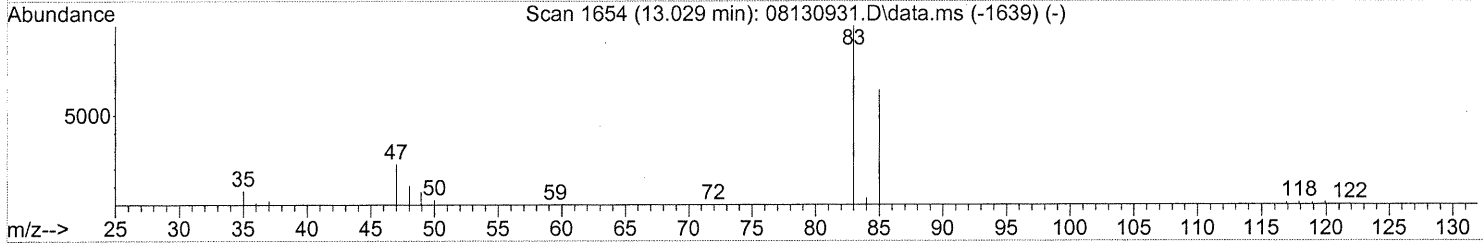
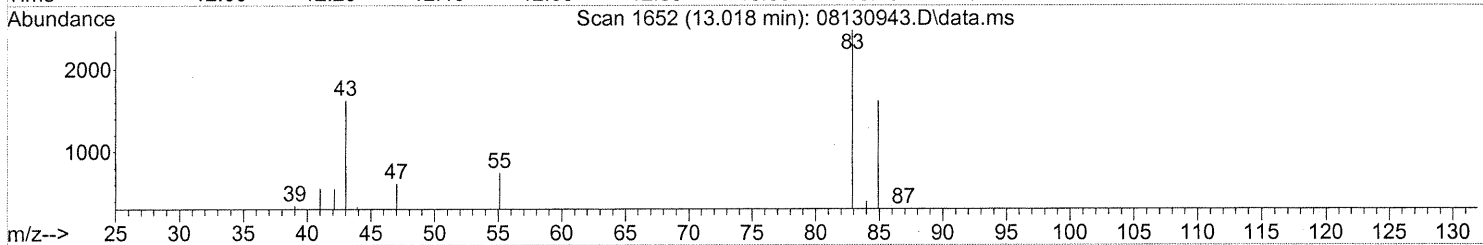
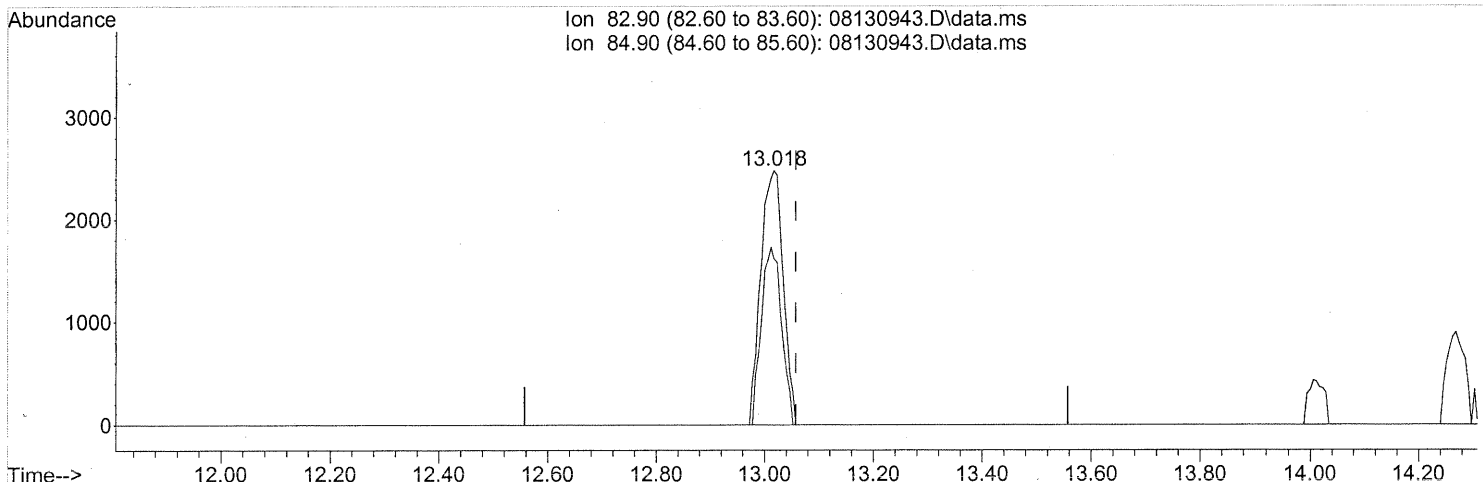
(31) n-Hexane (T)
 12.921min (-0.017) 1.55ng
 response 69355

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(32) Chloroform (T)

13.018min (-0.040) 0.19ng

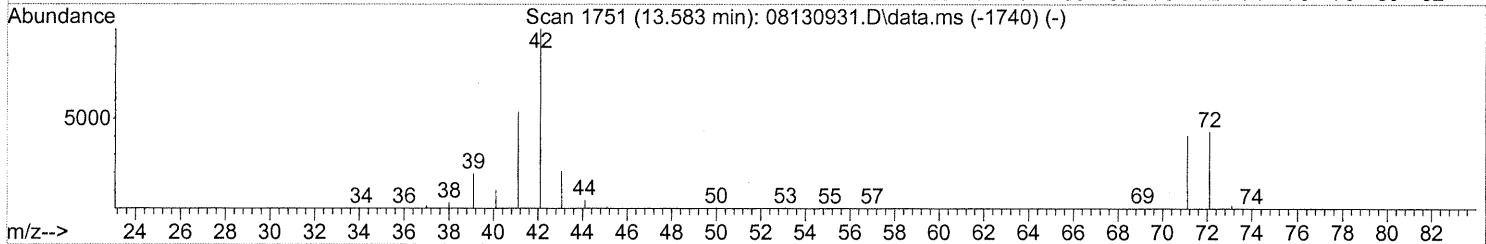
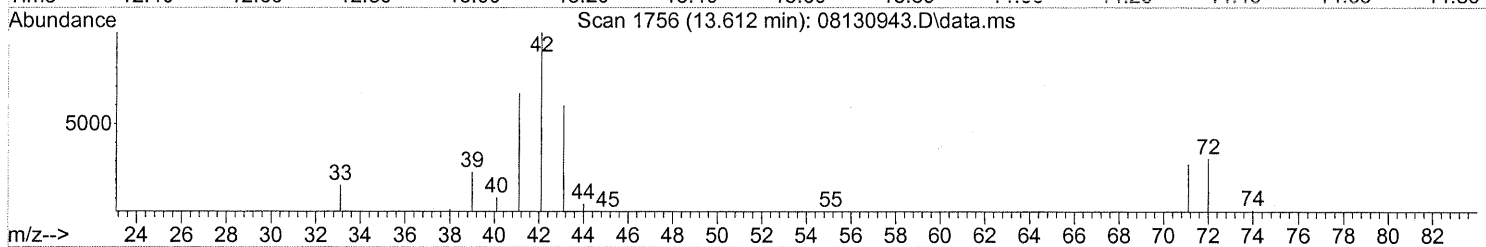
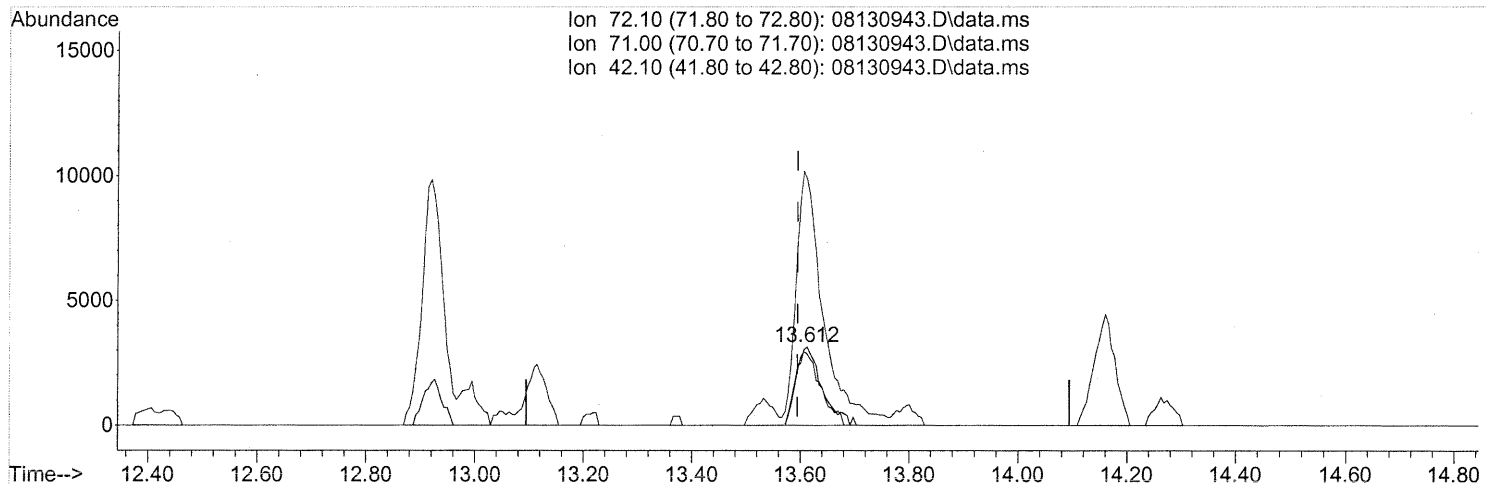
response 7096

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	62.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.612min (+0.017) 0.71ng

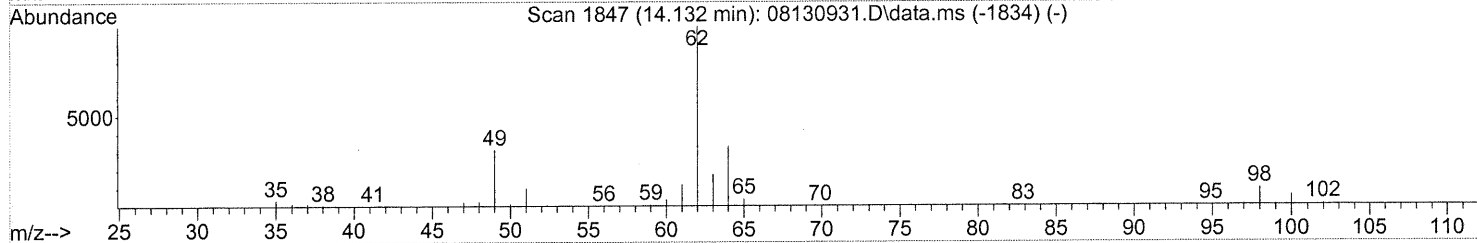
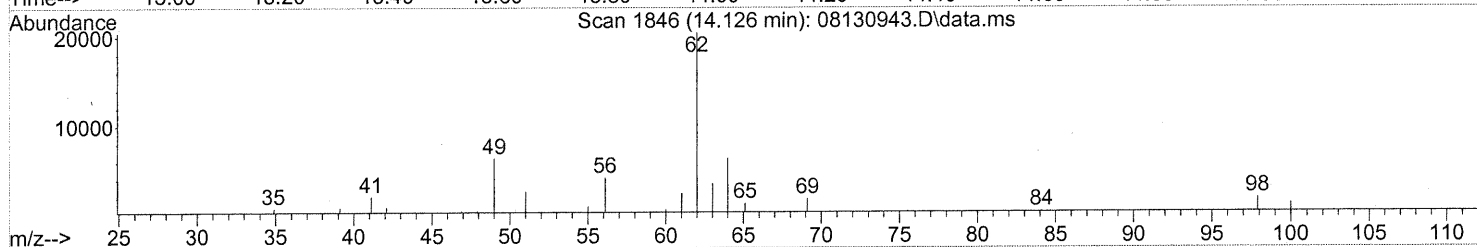
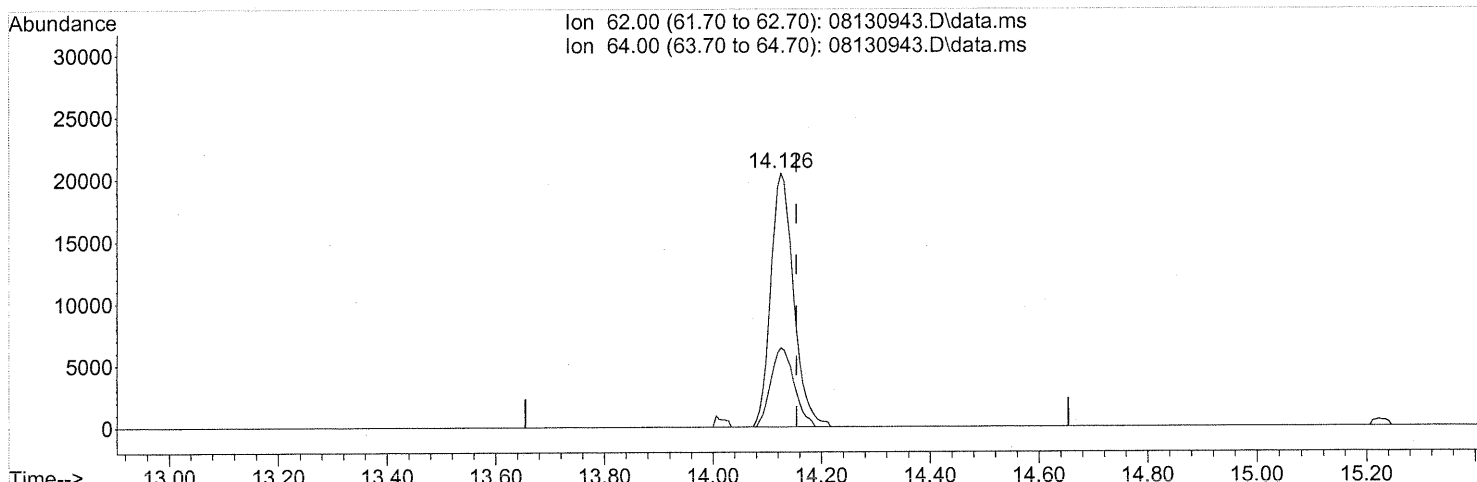
response 10456

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	90.16
42.10	206.50	340.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.029) 2.09ng

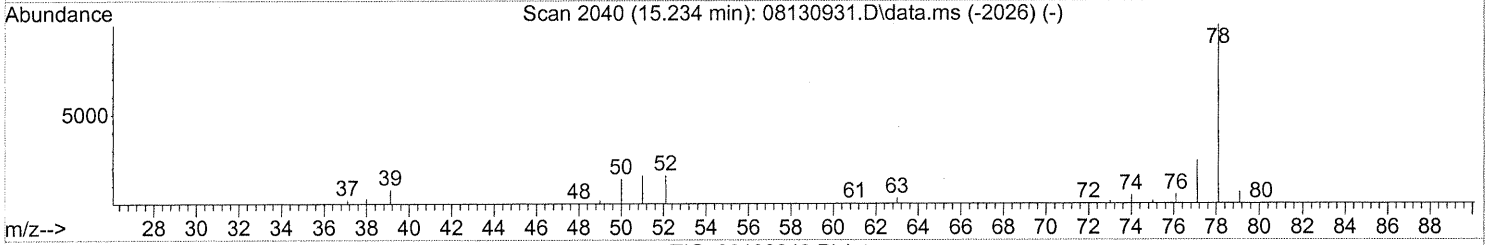
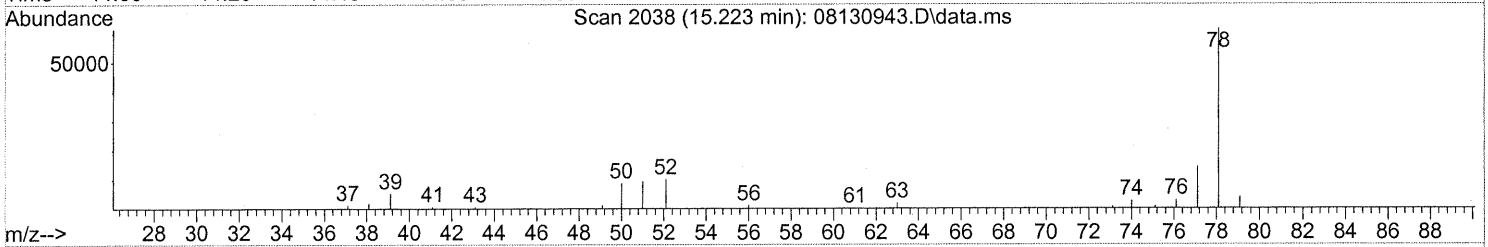
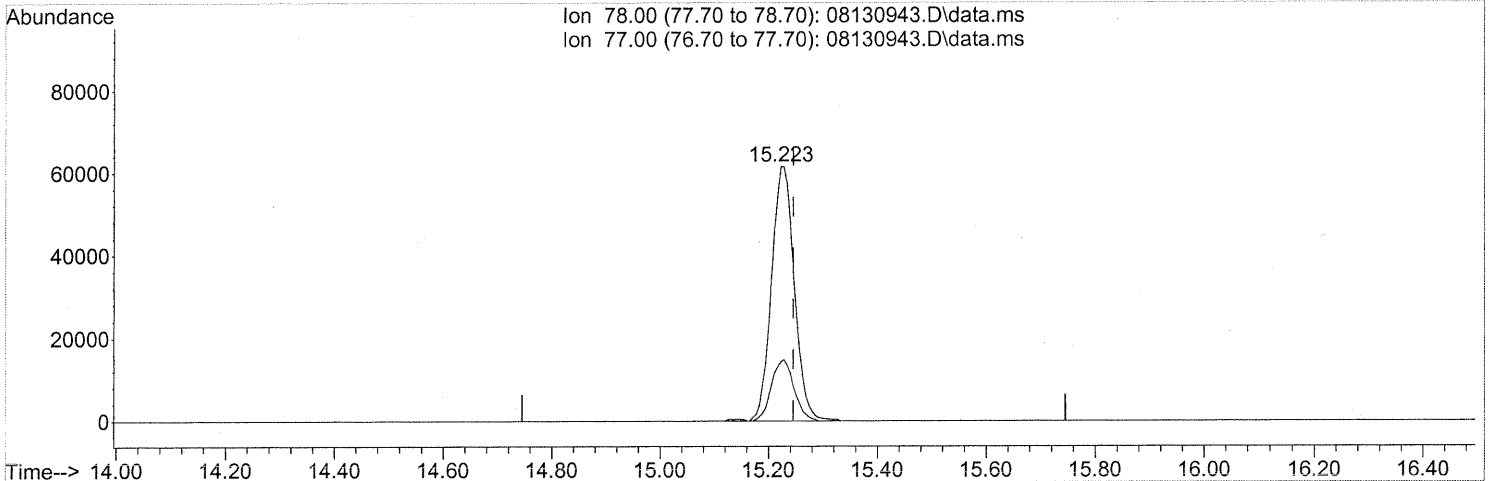
response 59799

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	31.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(41) Benzene (T)

15.223min (-0.023) 1.80ng

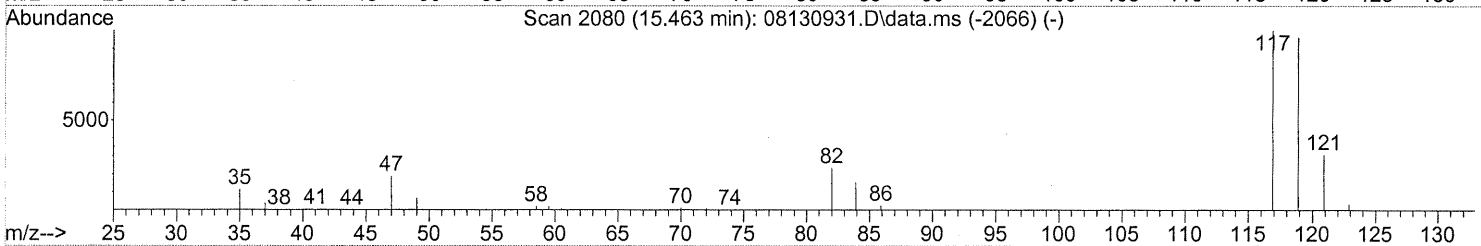
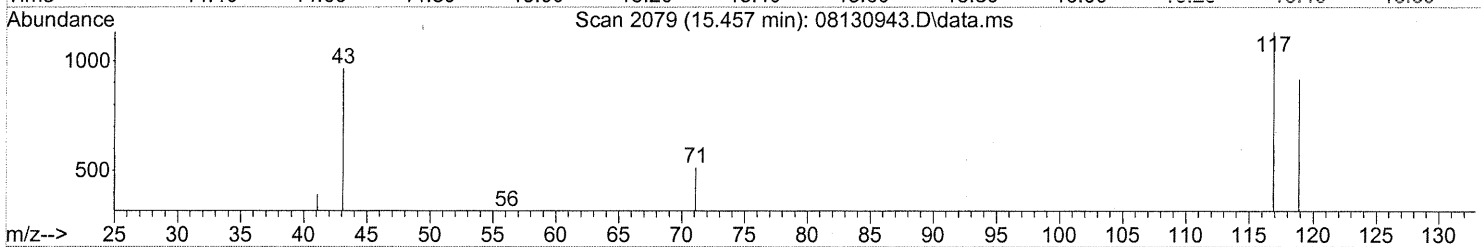
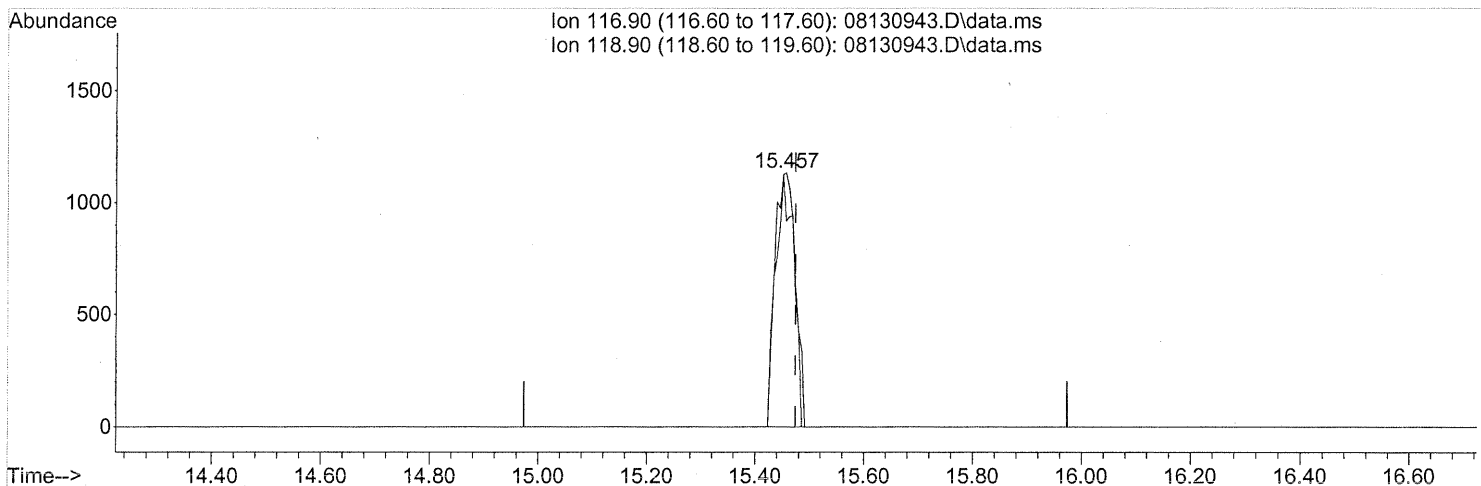
response 177565

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(42) Carbon Tetrachloride (T)

15.457min (-0.017) 0.11ng

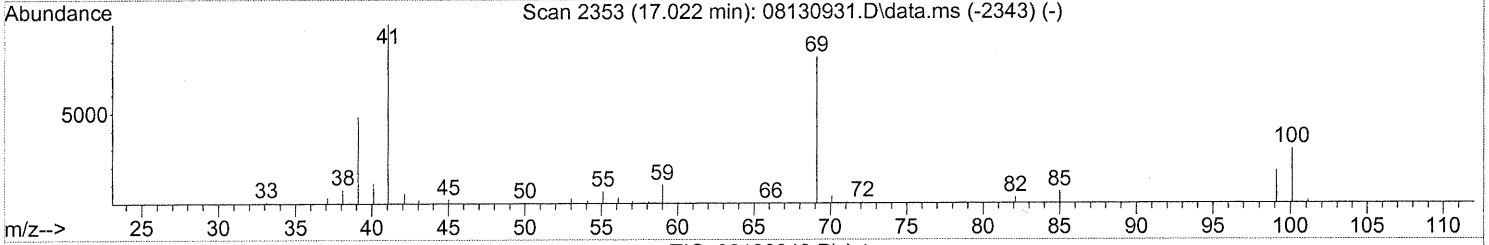
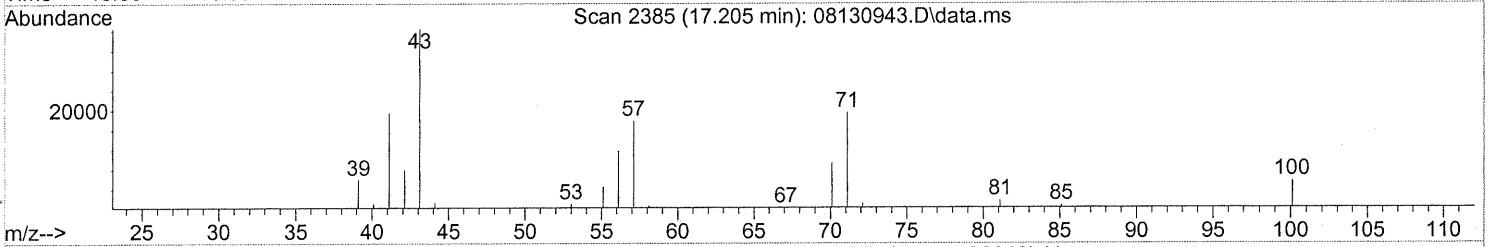
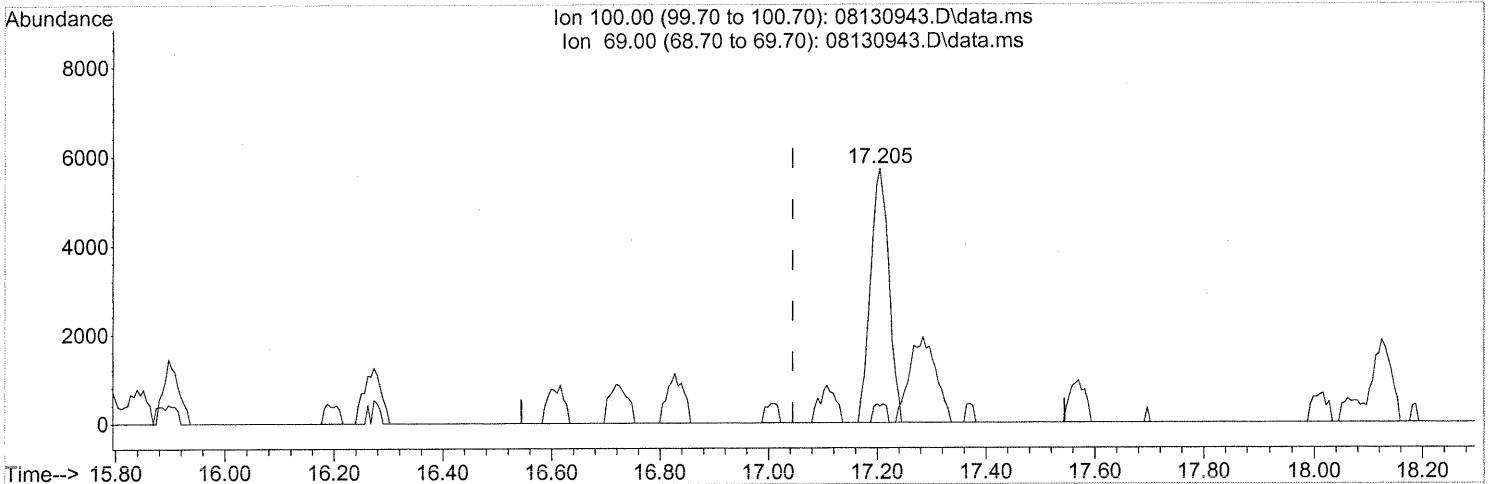
response 2967

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	88.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:14:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(50) Methyl Methacrylate (T)

17.205min (+0.160) 1.35ng

response 13309

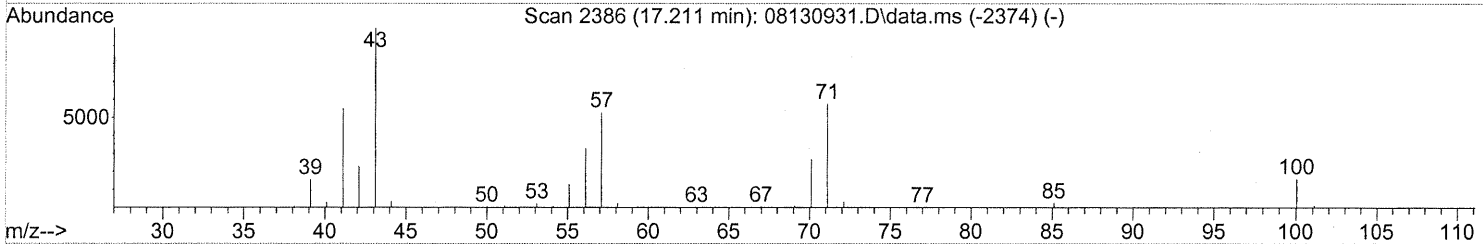
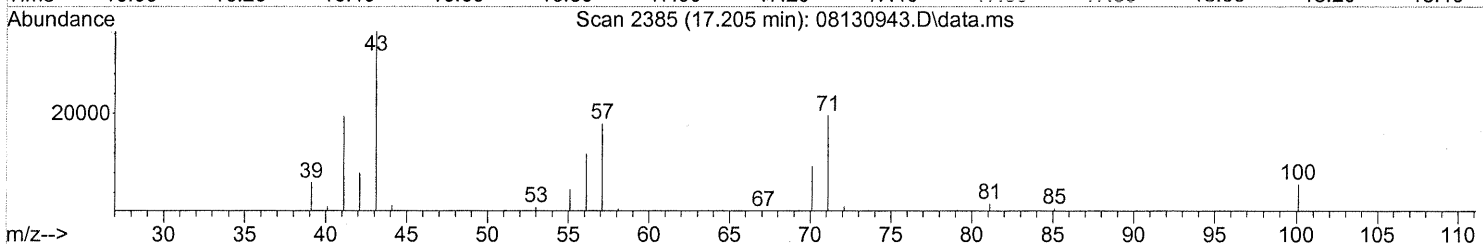
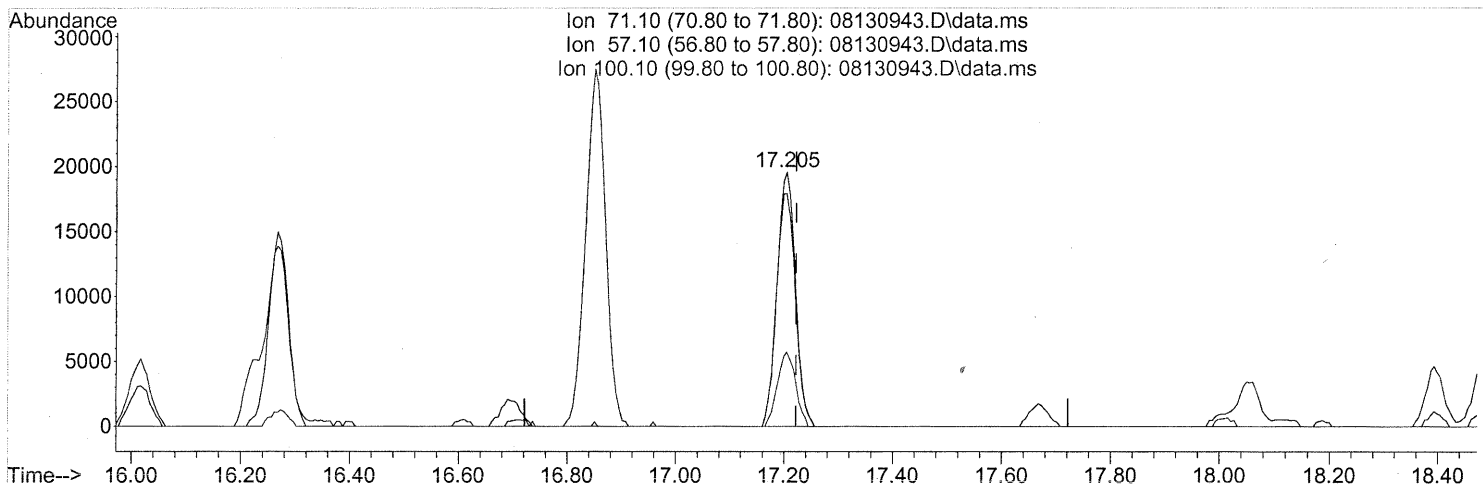
Ion	Exp%	Act%
100.00	100	100
69.00	261.10	4.94#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/18/09
um 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

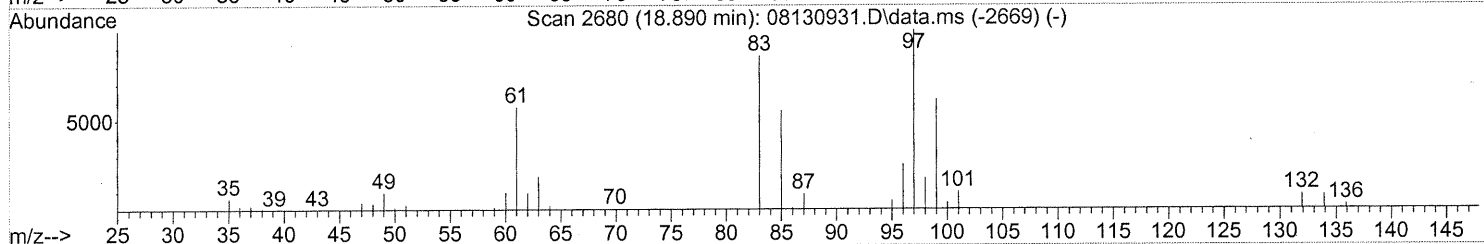
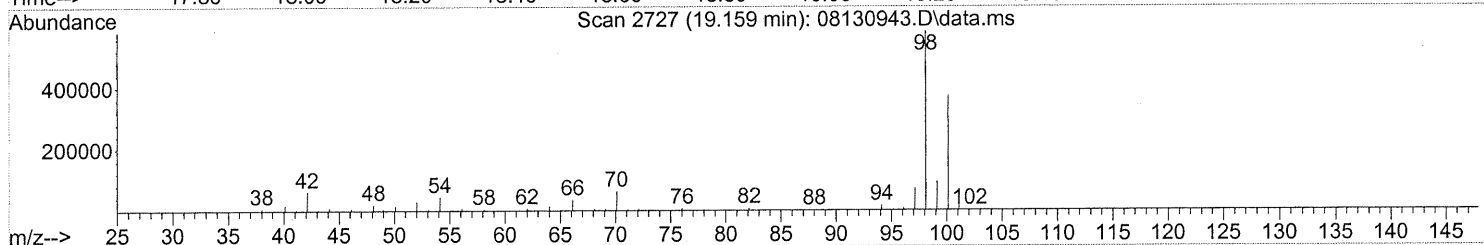
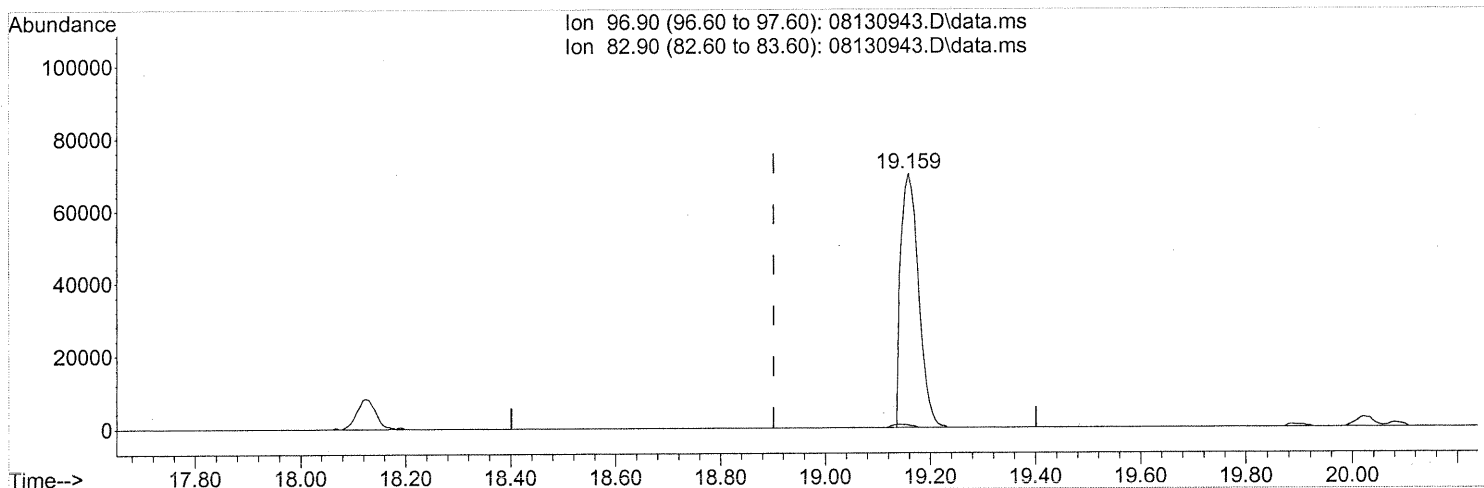
(51) n-Heptane (T)
 17.205min (-0.017) 1.75ng
 response 46110

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.00
100.10	30.70	28.86
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 18 11:14:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

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

19.159min (+0.257) 7.78ng

response 164207

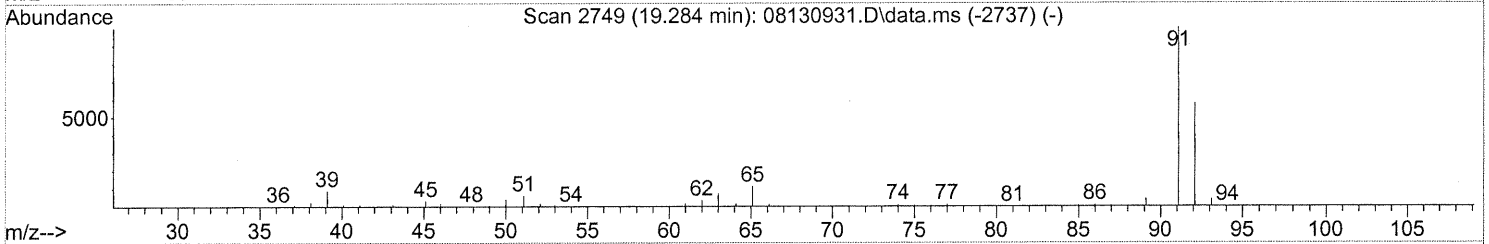
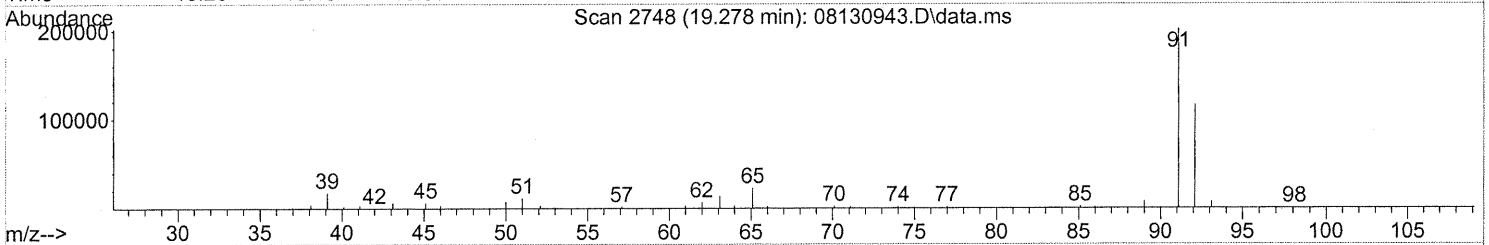
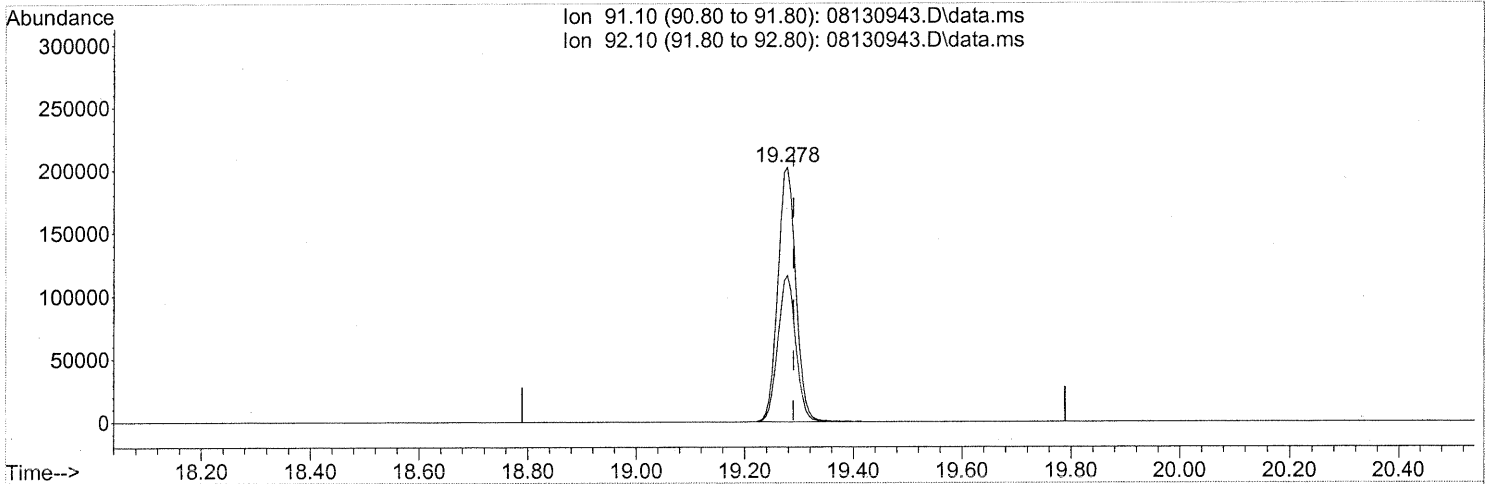
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.13#
0.00	0.00	0.00
0.00	0.00	0.00

FP Com 8/18/09
MM 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

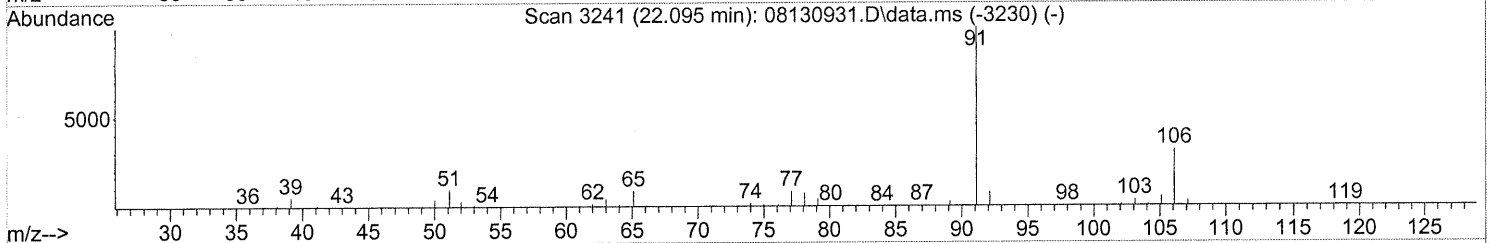
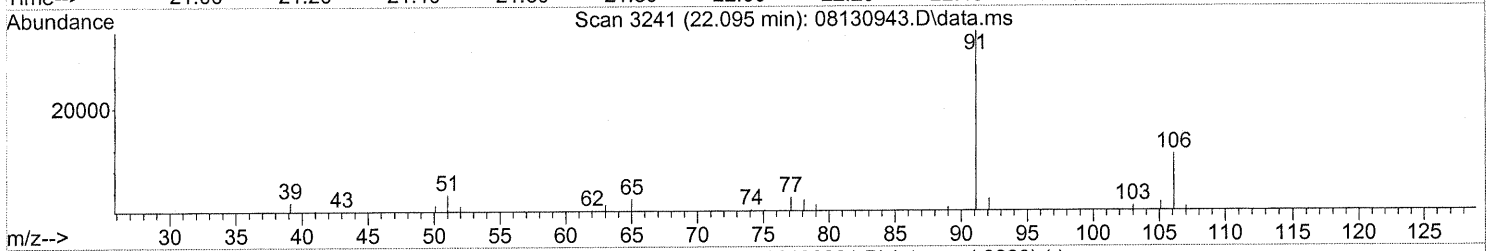
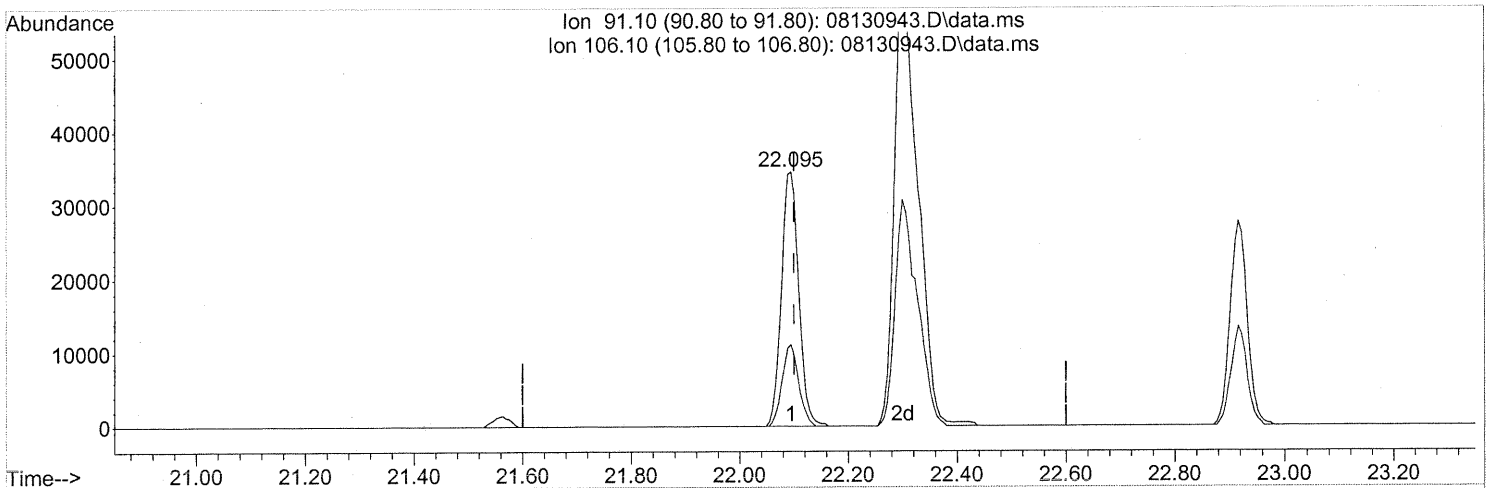
(58) Toluene (T)
 19.278min (-0.011) 4.65ng
 response 466802

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

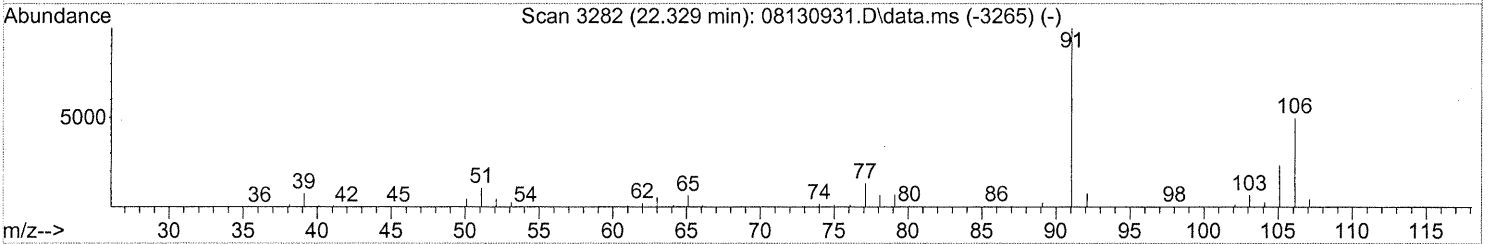
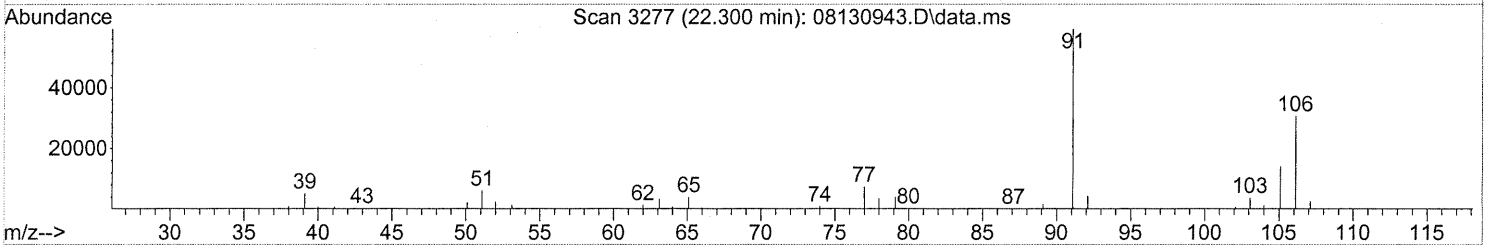
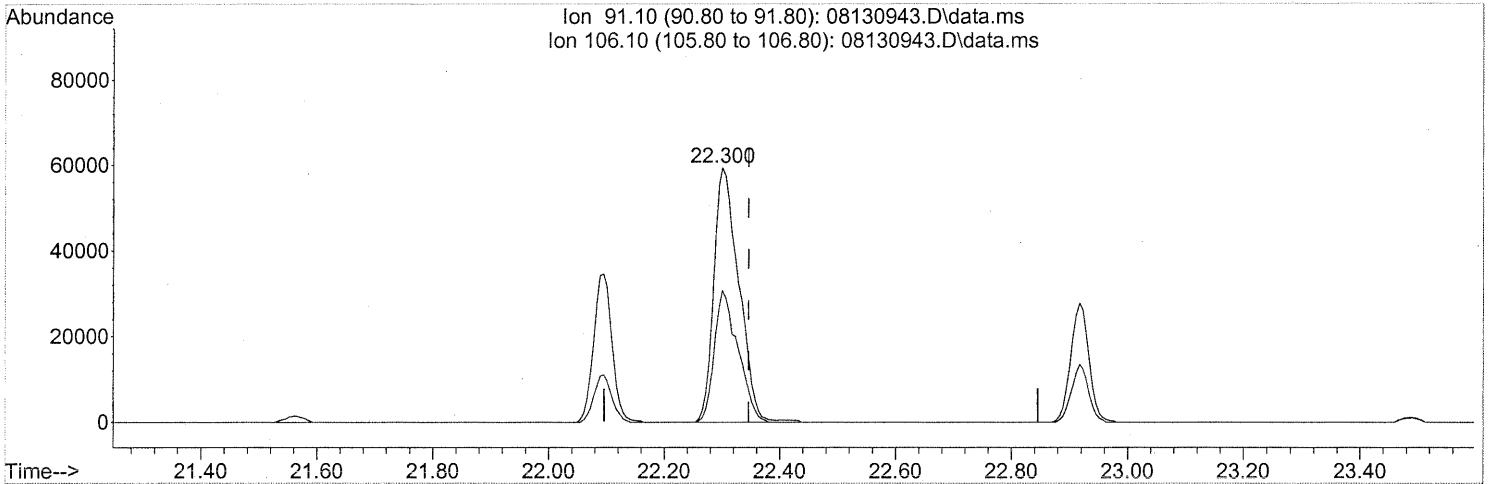
(66) Ethylbenzene (T)
 22.095min (-0.006) 0.70ng
 response 76186

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

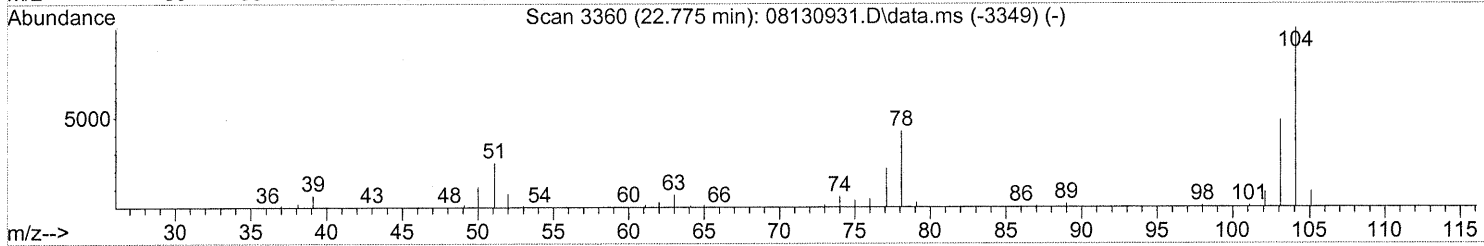
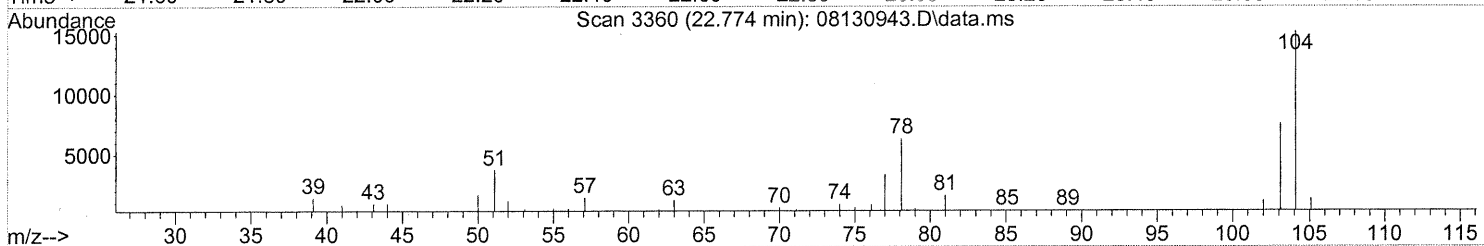
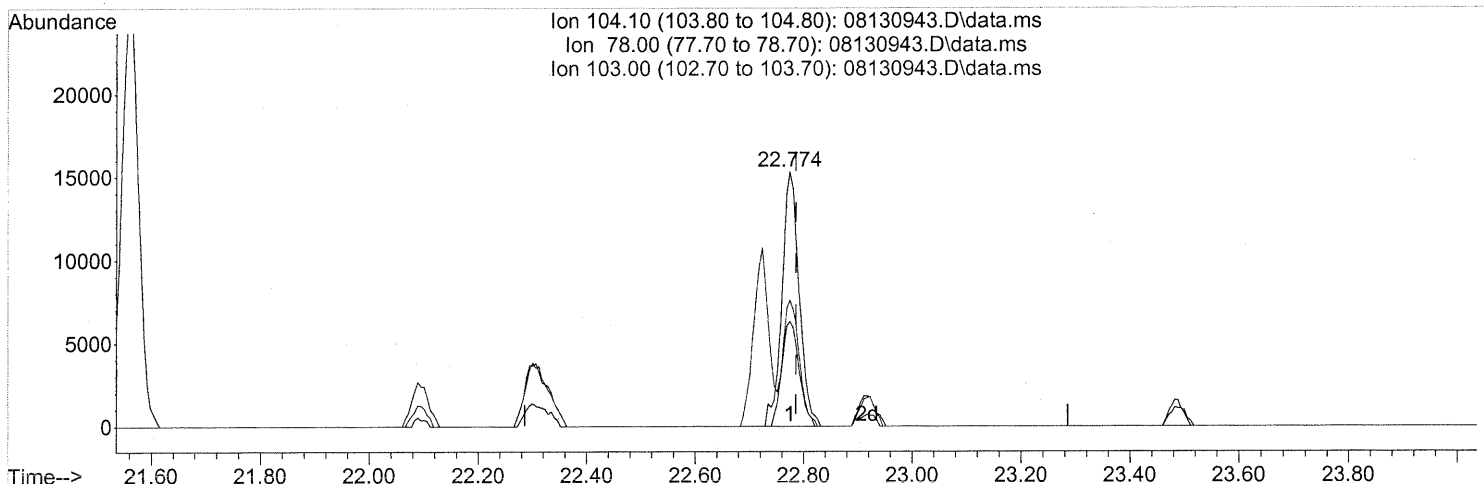
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 2.08ng
 response 178401

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(69) Styrene (T)

22.774min (-0.011) 0.53ng

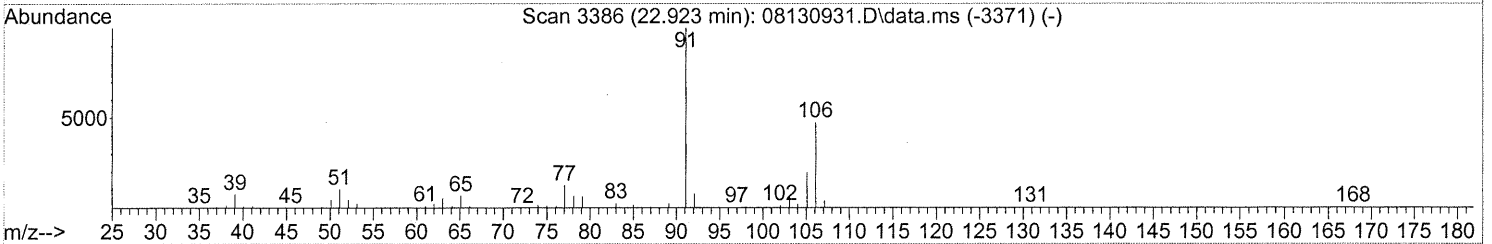
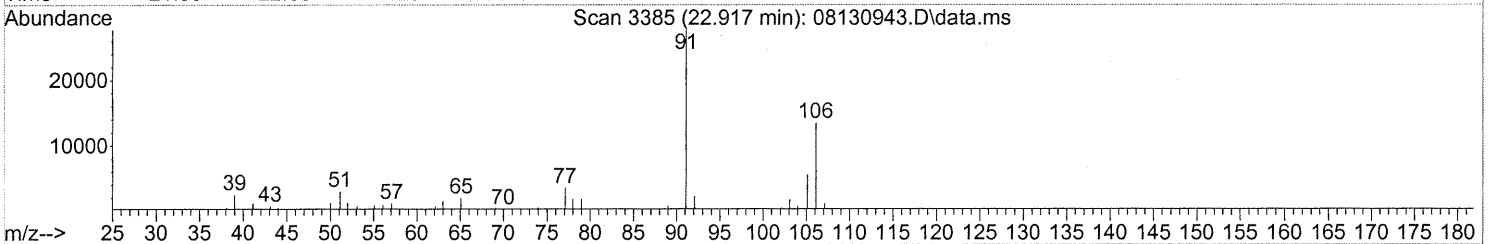
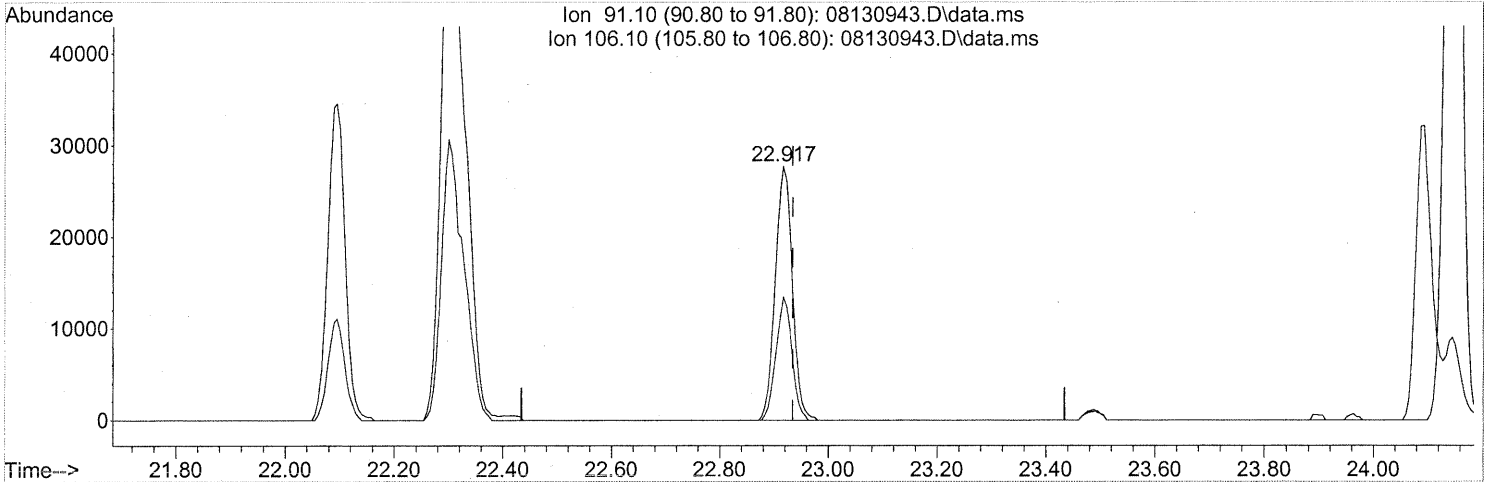
response 33747

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.42
103.00	48.70	46.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



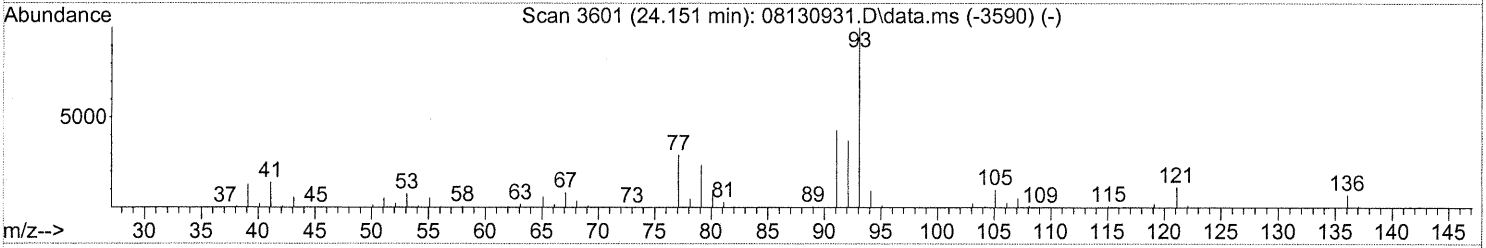
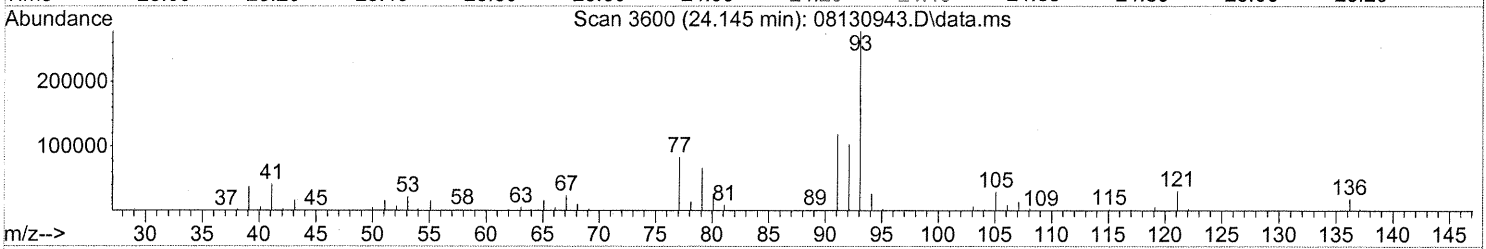
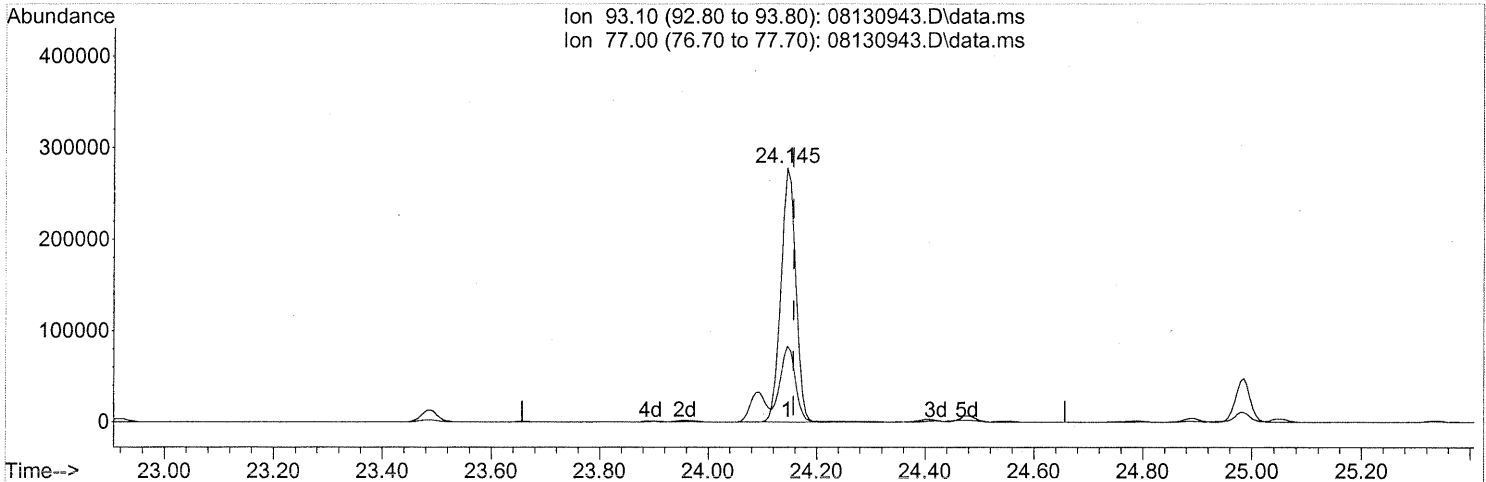
(70) o-Xylene (T)
 22.917min (-0.017) 0.70ng
 response 60367

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	45.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

(75) alpha-Pinene (T)

24.145min (-0.012) 9.53ng

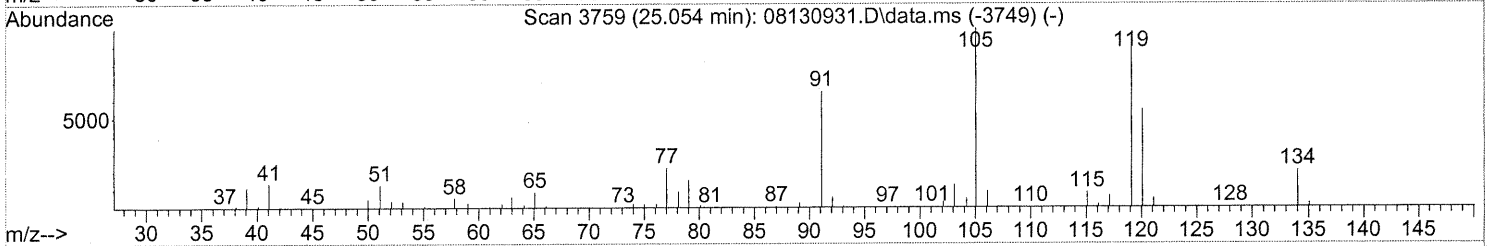
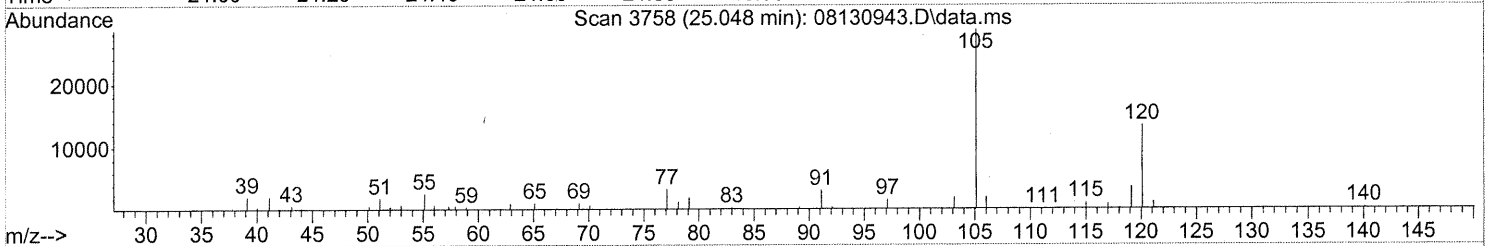
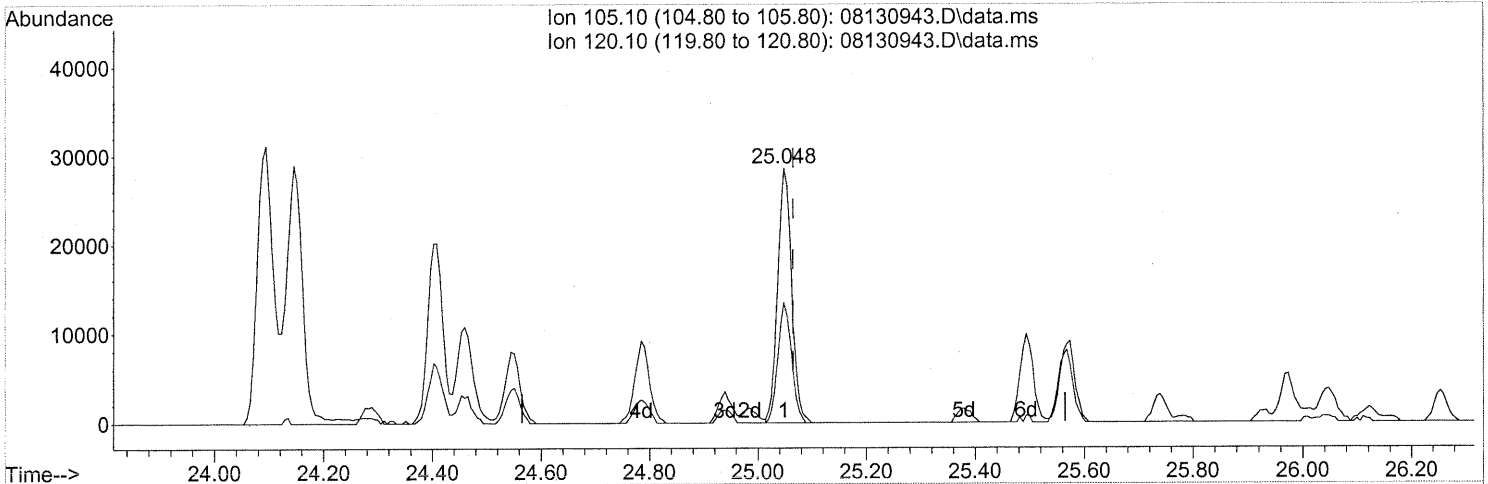
response 526640

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130943.D\data.ms

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

25.048min (-0.017) 0.55ng

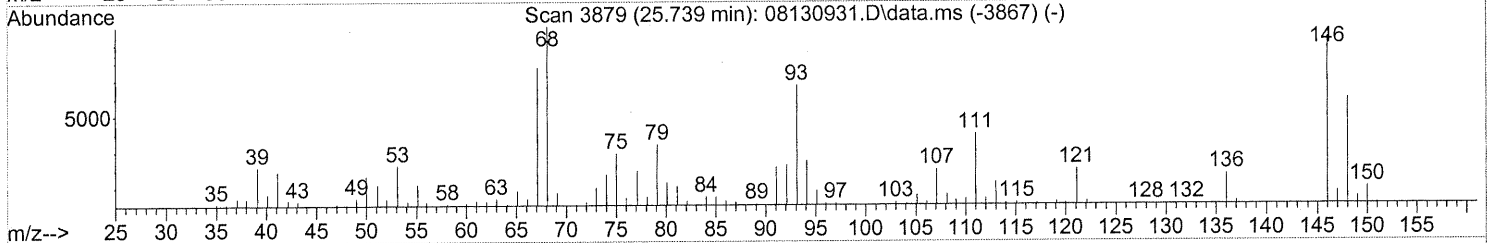
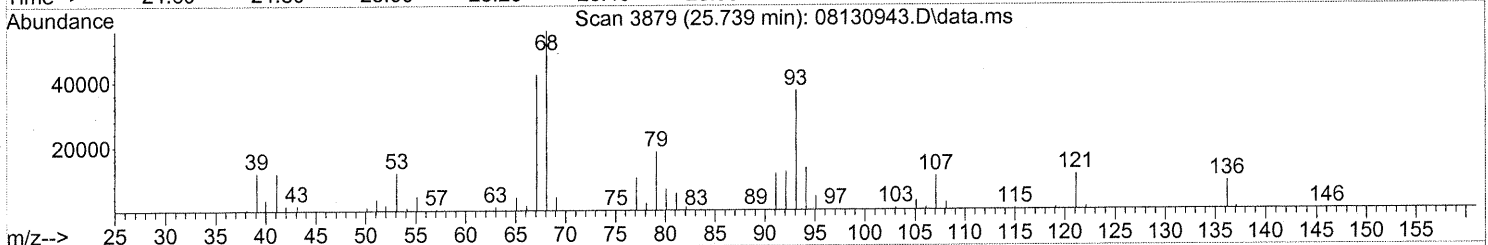
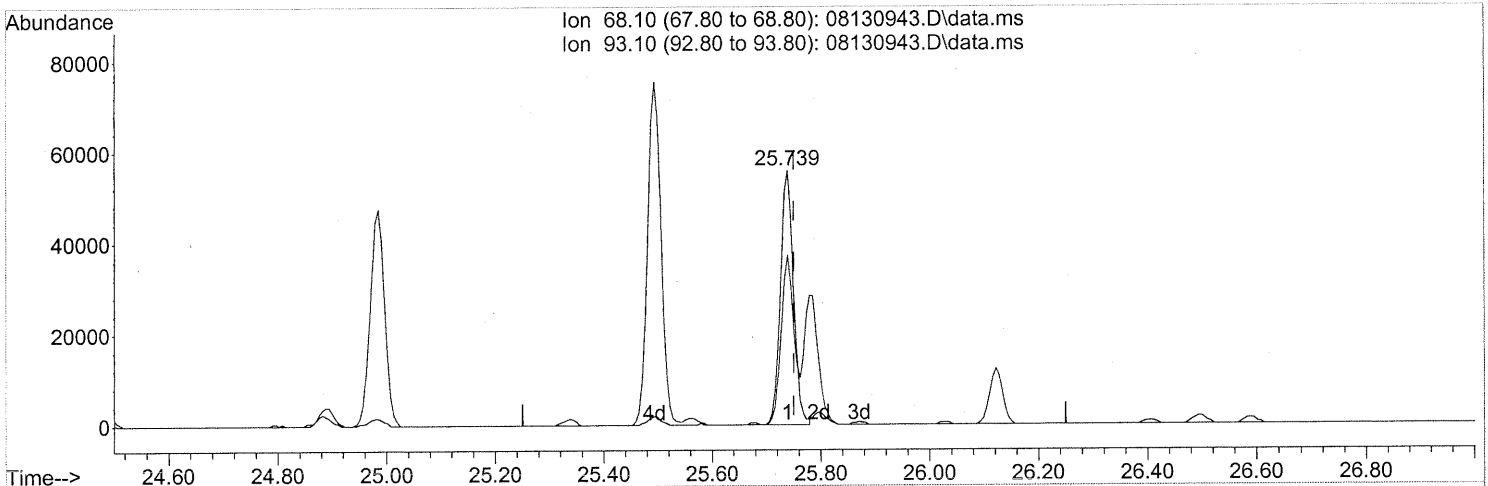
response 50751

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130943.D
 Acq On : 14 Aug 2009 14:59
 Operator : EM
 Sample : P0902720-001 (200ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
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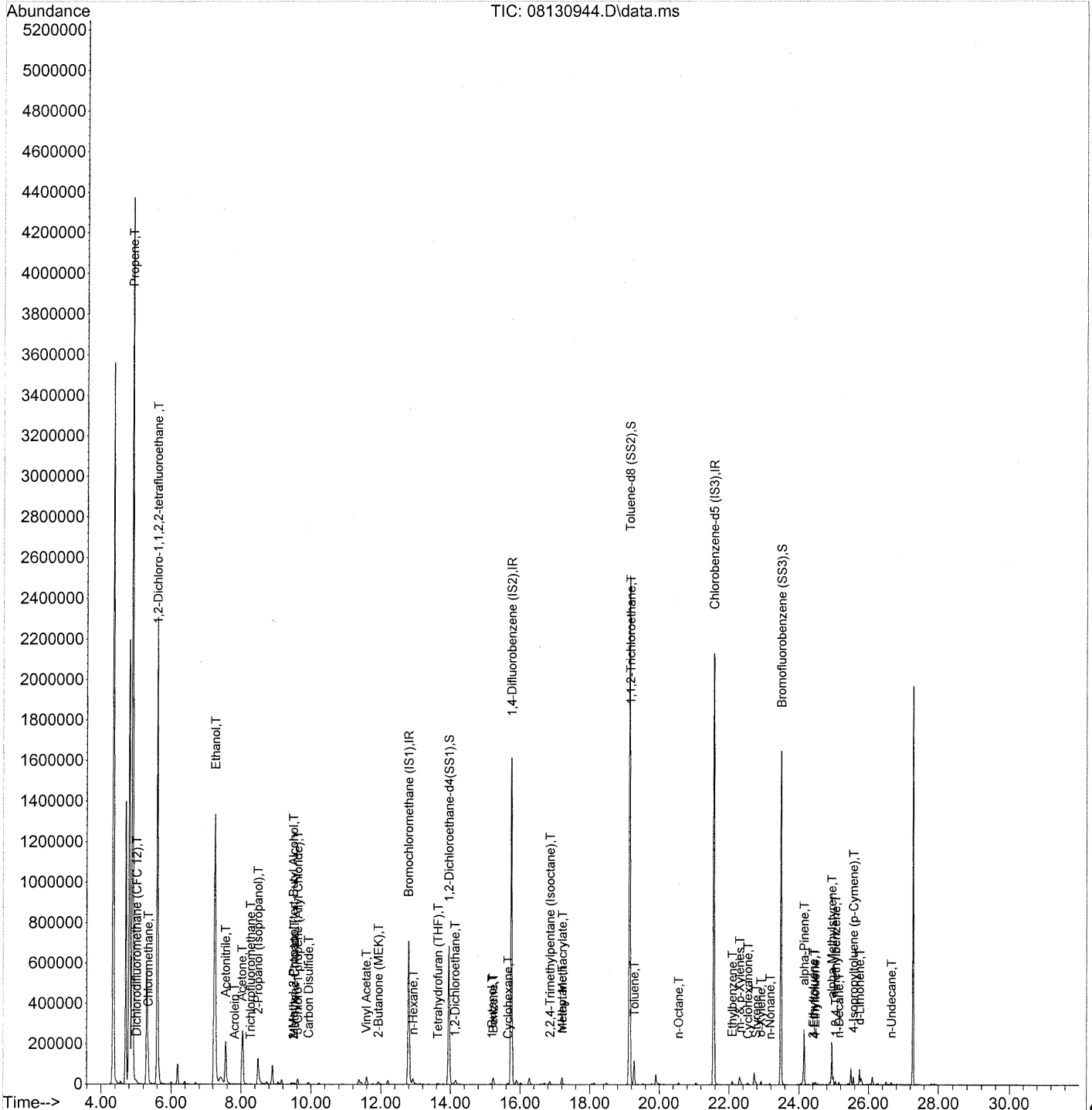
(91) d-Limonene (T)
 25.739min (-0.012) 2.44ng
 response 92458

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	67.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
 Sample : P0902720-001 dil (50ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 11:31:39 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
 Sample : P0902720-001 dil (50ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 11:31:39 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	376045	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.75	114	1923830	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	919645	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	678013	25.499	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	102.00%	
57) Toluene-d8 (SS2)	19.14	98	2235046	25.565	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	102.24%	
73) Bromofluorobenzene (SS3)	23.49	174	599416	24.209	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	96.84%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	477726	14.482	ng	# 1
3) Dichlorodifluoromethan...	5.01	85	12872	0.273	ng	93
4) Chloromethane	5.34	50	3175	0.072	ng	84
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	6567	0.264	ng	93
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	7.26	45	2750953m	132.948	ng	
11) Acetonitrile	7.56	41	322847	6.393	ng	98
12) Acrolein	7.81	56	2377	0.176	ng	98
13) Acetone	8.03	58	80993	3.846	ng	# 41
14) Trichlorofluoromethane	8.28	101	3017	0.075	ng	83
15) 2-Propanol (Isopropanol)	8.48	45	297851	5.165	ng	96
16) Acrylonitrile	8.74	53	1034	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	6465	0.110	ng	# 64
19) Methylene Chloride	9.52	84	4223	0.161	ng	86
20) 3-Chloro-1-propene (Al...	9.62	41	7713	0.219	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	20066	0.216	ng	92
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	11.45	73	1894	N.D.		
26) Vinyl Acetate	11.58	86	1569	0.344	ng	# 1
27) 2-Butanone (MEK)	11.93	72	7078	0.482	ng	# 42
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.97	61	106	N.D.		
31) n-Hexane	12.93	57	16230	0.350	ng	91 50

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
 Sample : P0902720-001 dil (50ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 11:31:39 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	1403	N.D.		
34) Tetrahydrofuran (THF)	13.64	72	2083	0.136 ng	#	21
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	13879	0.467 ng		98
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.19	56	4780	0.192 ng	#	5
41) Benzene	15.23	78	42954	0.415 ng		97
42) Carbon Tetrachloride	15.46	117	112	N.D.		
43) Cyclohexane	15.65	84	3032	0.076 ng	#	63
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...	16.86	57	17231	0.145 ng		92
50) Methyl Methacrylate	17.21	100	3155	0.305 ng	#	1
51) n-Heptane	17.21	71	11193	0.406 ng		95
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	19.16	97	173510	7.850 ng	#	8
58) Toluene	19.28	91	113720	1.073 ng		99
59) 2-Hexanone	19.59	43	1352	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.46	43	2309	N.D.		
63) n-Octane	20.56	57	1908	0.081 ng	#	81
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	17885	0.156 ng		97
67) m- & p-Xylenes	22.31	91	42027	0.463 ng		100
68) Bromoform	22.43	173	348	N.D.		
69) Styrene	22.78	104	7468	0.111 ng		97
70) o-Xylene	22.92	91	14957	0.164 ng		93
71) n-Nonane	23.17	43	3494	0.064 ng	#	72
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	1358	N.D.		
75) alpha-Pinene	24.15	93	125935	2.157 ng		76
76) n-Propylbenzene	24.29	91	3943	N.D.		
77) 3-Ethyltoluene	24.41	105	10078	0.091 ng		87
78) 4-Ethyltoluene	24.46	105	5771	0.052 ng		92
79) 1,3,5-Trimethylbenzene	24.55	105	3901	N.D.		

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
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 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 11:31:39 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration

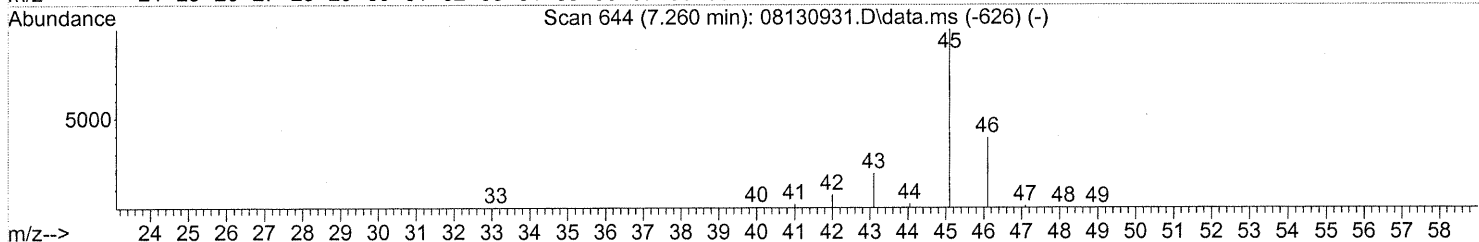
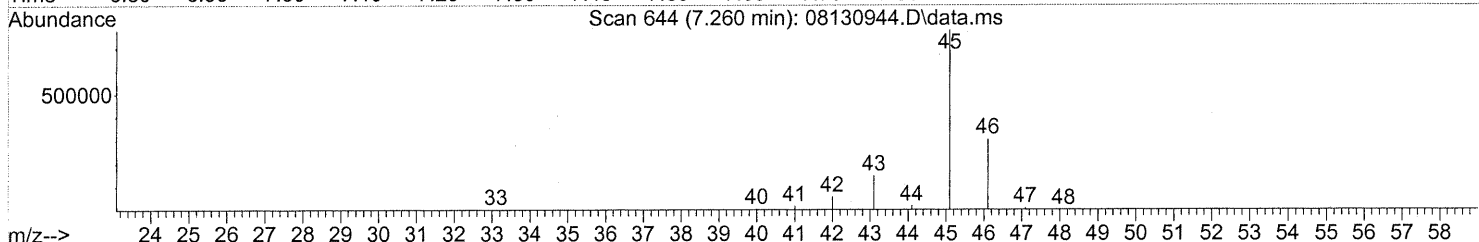
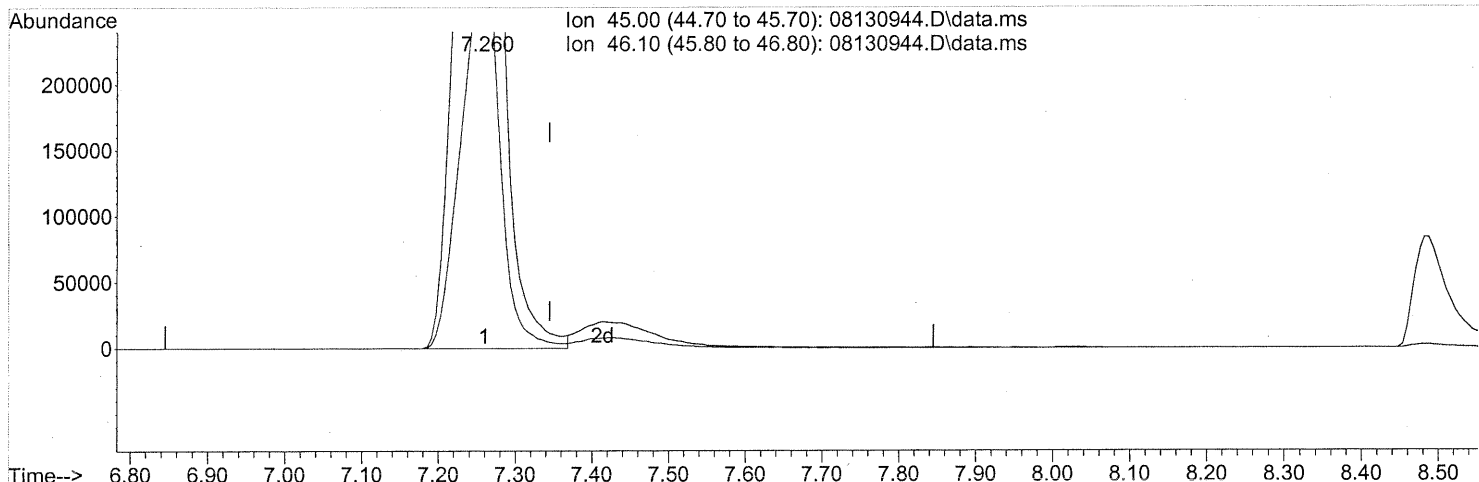
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.94	118	3066	0.061	ng	# 1
81) 2-Ethyltoluene	24.79	105	4237	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	12156	0.124	ng	88
83) n-Decane	25.15	57	5156	0.091	ng	82
84) Benzyl Chloride	25.34	91	337	N.D.		
85) 1,3-Dichlorobenzene	25.34	146	211	N.D.		
86) 1,4-Dichlorobenzene	25.34	146	211	N.D.		
87) sec-Butylbenzene	25.38	105	766	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	21822	0.177	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	4621	N.D.		
90) 1,2-Dichlorobenzene	25.34	146	211	N.D.		
91) d-Limonene	25.74	68	21390	0.534	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5149	0.088	ng	88
94) 1,2,4-Trichlorobenzene	27.80	180	228	N.D.		
95) Naphthalene	27.95	128	4167	N.D.		
96) n-Dodecane	27.89	57	2504	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.54	55	4394	0.132	ng	# 92
99) tert-Butylbenzene	25.05	119	1732	N.D.		
100) n-Butylbenzene	26.07	91	1052	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
 Sample : P0902720-001 dil (50ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:30 2009
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 Response via : Initial Calibration



TIC: 08130944.D\data.ms

(10) Ethanol (T)

7.260min (-0.086) 126.03ng

response 2607866

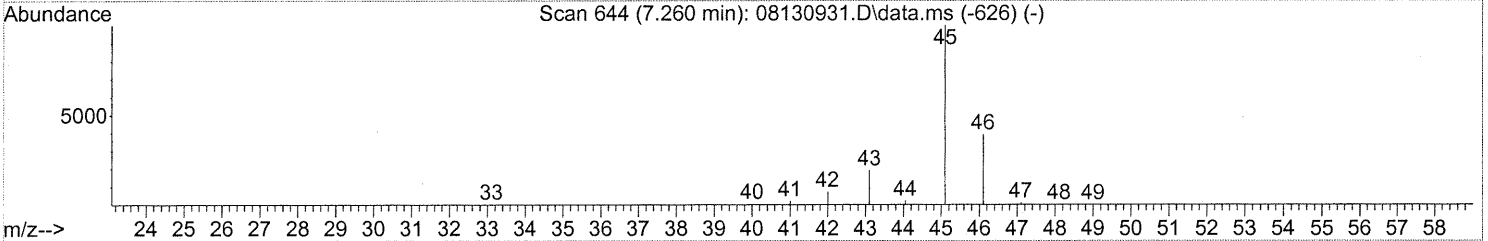
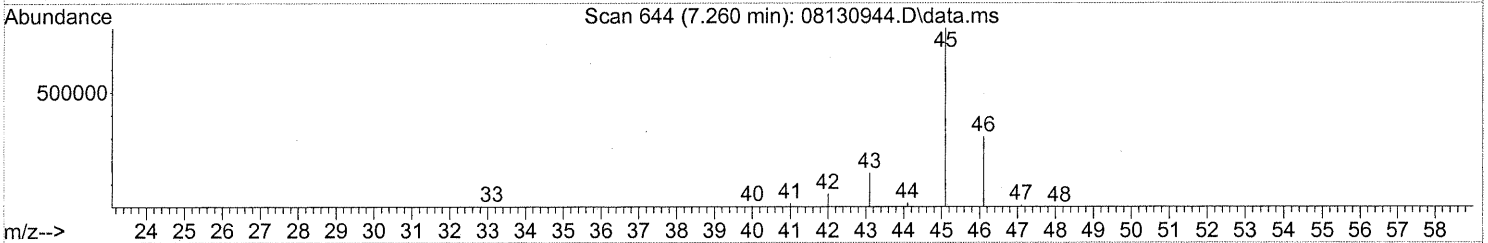
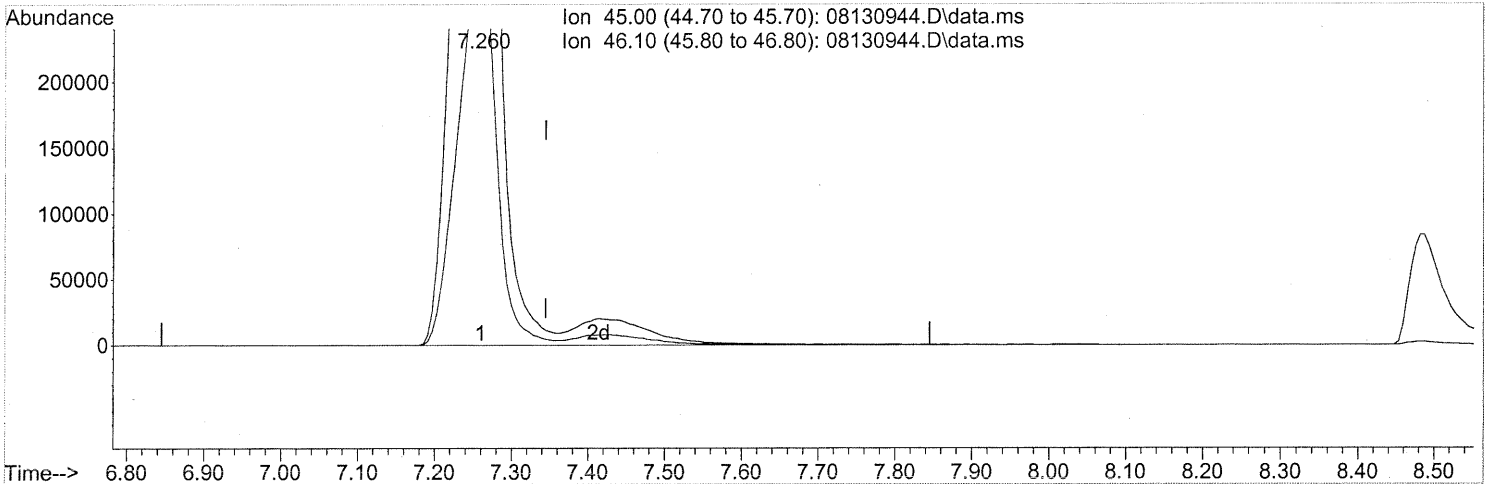
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130944.D
 Acq On : 14 Aug 2009 15:40
 Operator : EM
 Sample : P0902720-001 dil (50ml)
 Misc : Environmental H & E 99934
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 17 08:25:30 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130944.D\data.ms

(10) Ethanol (T)

7.260min (-0.086) 132.95ng m

response 2750953

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.18
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/17/09
um 8/18/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99935
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01477

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	2.3	0.63	1.3	0.37	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.63	0.51	0.13	
74-87-3	Chloromethane	0.48	0.13	0.23	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.090	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.048	
64-17-5	Ethanol	110	6.3	58	3.3	
75-05-8	Acetonitrile	110	0.63	63	0.38	
107-02-8	Acrolein	3.9	0.63	1.7	0.27	
67-64-1	Acetone	23	6.3	9.8	2.7	M1
75-69-4	Trichlorofluoromethane	1.2	0.13	0.21	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	3.3	0.63	1.3	0.26	
107-13-1	Acrylonitrile	ND	0.63	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.13	ND	0.032	
75-09-2	Methylene Chloride	ND	0.63	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.13	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.57	0.13	0.075	0.016	
75-15-0	Carbon Disulfide	ND	0.63	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	8.6	6.3	2.4	1.8	
78-93-3	2-Butanone (MEK)	3.2	0.63	1.1	0.21	

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

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

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

Verified By: _____

Date: 8/21/09

TO15scan.xls - 75 Compounds - PageNo.:

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99935
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01477

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.26

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.94	0.63	0.20	0.13	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.019	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	ND	0.63	ND	0.15	
179601-23-1	m,p-Xylenes	0.86	0.63	0.20	0.15	
75-25-2	Bromoform	ND	0.63	ND	0.061	
100-42-5	Styrene	ND	0.63	ND	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.15	
111-84-2	n-Nonane	ND	0.63	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.13	ND	0.018	
98-82-8	Cumene	ND	0.63	ND	0.13	
80-56-8	alpha-Pinene	3.2	0.63	0.58	0.11	
103-65-1	n-Propylbenzene	ND	0.63	ND	0.13	
622-96-8	4-Ethyltoluene	ND	0.63	ND	0.13	
108-67-8	1,3,5-Trimethylbenzene	ND	0.63	ND	0.13	
95-63-6	1,2,4-Trimethylbenzene	ND	0.63	ND	0.13	
100-44-7	Benzyl Chloride	ND	0.13	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.13	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.13	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.13	ND	0.021	
5989-27-5	d-Limonene	0.85	0.63	0.15	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.63	ND	0.065	
120-82-1	1,2,4-Trichlorobenzene	ND	0.63	ND	0.085	
91-20-3	Naphthalene	ND	0.63	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

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

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

Verified By: _____

Date: _____

8/24/09

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 11:58:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	362760	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1846574	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	868688	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.96	65	643884	25.103	ng	-0.03
Spiked Amount	25.000			Recovery	=	100.40%
57) Toluene-d8 (SS2)	19.15	98	2114393	25.603	ng	-0.01
Spiked Amount	25.000			Recovery	=	102.40%
73) Bromofluorobenzene (SS3)	23.49	174	572628	24.484	ng	0.00
Spiked Amount	25.000			Recovery	=	97.92%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	57268m	1.800	ng	
3) Dichlorodifluoromethan...	5.01	85	90291	1.988	ng	99
4) Chloromethane	5.33	50	16021	0.378	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	6584	0.274	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.08	54	1435	N.D.		
8) Bromomethane	6.57	94	1284	0.059	ng	84
9) Chloroethane	6.92	64	468	N.D.		
10) Ethanol	7.25	45	1725549m	86.446	ng	
11) Acetonitrile	7.58	41	4078290	83.719	ng	99
12) Acrolein	7.79	56	40670	3.124	ng	98
13) Acetone	8.01	58	376239	18.523	ng	92
14) Trichlorofluoromethane	8.28	101	36876	0.949	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	146361m	2.631	ng	
16) Acrylonitrile	8.85	53	622	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	7146	0.127	ng	# 64
19) Methylene Chloride	9.52	84	6090	0.240	ng	89
20) 3-Chloro-1-propene (Al...	9.72	41	312	N.D.		
21) Trichlorotrifluoroethane	9.98	151	7871	0.453	ng	100
22) Carbon Disulfide	9.93	76	24481	0.274	ng	96
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	11.36	73	228	N.D.		
26) Vinyl Acetate	11.52	86	29901	6.797	ng	# 1
27) 2-Butanone (MEK)	11.90	72	35813	2.529	ng	92
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	13.02	87	346	N.D.		
30) Ethyl Acetate	12.93	61	2816	0.307	ng	99
31) n-Hexane	12.92	57	21838	0.488	ng	89

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em 8/17/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 11:58:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	8868	0.237	ng	97
34) Tetrahydrofuran (THF)	13.61	72	3527	0.240	ng #	27
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	12020	0.419	ng	99
38) 1,1,1-Trichloroethane	14.53	97	892	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.10	56	40918	1.710	ng	84
41) Benzene	15.23	78	49916	0.503	ng	98
42) Carbon Tetrachloride	15.45	117	10701	0.386	ng	98
43) Cyclohexane	15.65	84	4809	0.125	ng #	84
44) tert-Amyl Methyl Ether	16.13	73	107	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.70	83	3643	0.125	ng	85
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	34068	0.298	ng	90
50) Methyl Methacrylate	17.21	100	4859	0.490	ng #	1
51) n-Heptane	17.21	71	16793	0.635	ng	95
52) cis-1,3-Dichloropropene	17.95	75	219	N.D.		
53) 4-Methyl-2-pentanone	18.00	58	3554	0.166	ng	82
54) trans-1,3-Dichloropropene	18.66	75	112	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D.	d	
58) Toluene	19.28	91	168590	1.684	ng	99
59) 2-Hexanone	19.59	43	26051	0.501	ng	92
60) Dibromochloromethane	19.82	129	2282	0.107	ng	95
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	11262	0.198	ng #	71
63) n-Octane	20.56	57	16655	0.746	ng	85
64) Tetrachloroethene	20.75	166	1138	N.D.		
65) Chlorobenzene	21.61	112	1067	N.D.		
66) Ethylbenzene	22.09	91	26387	0.244	ng	97
67) m- & p-Xylenes	22.30	91	58451	0.682	ng	99
68) Bromoform	22.41	173	2528	0.136	ng	89
69) Styrene	22.77	104	10354	0.163	ng	99
70) o-Xylene	22.92	91	21097	0.245	ng	96
71) n-Nonane	23.17	43	8532	0.164	ng	80
72) 1,1,2,2-Tetrachloroethane	22.91	83	716	N.D.		
74) Cumene	23.65	105	2308	N.D.		
75) alpha-Pinene	24.15	93	141859	2.573	ng	96
76) n-Propylbenzene	24.28	91	7983	0.058	ng #	2
77) 3-Ethyltoluene	24.40	105	15550	0.149	ng	97
78) 4-Ethyltoluene	24.46	105	8629	0.082	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	5518	0.063	ng	98

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 11:58:04 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

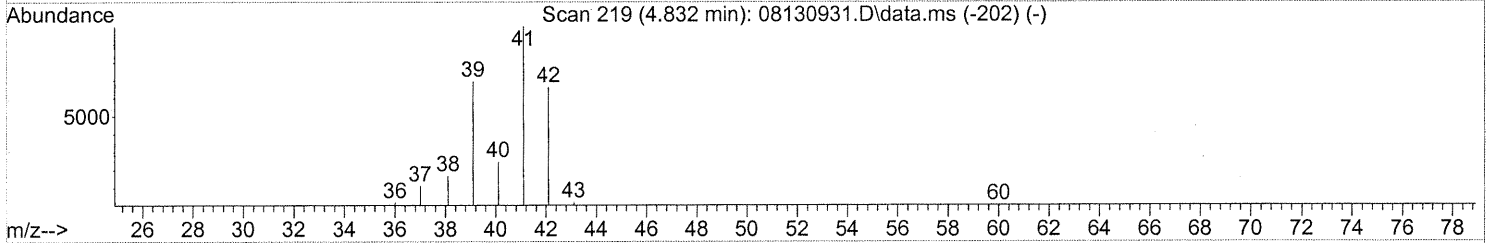
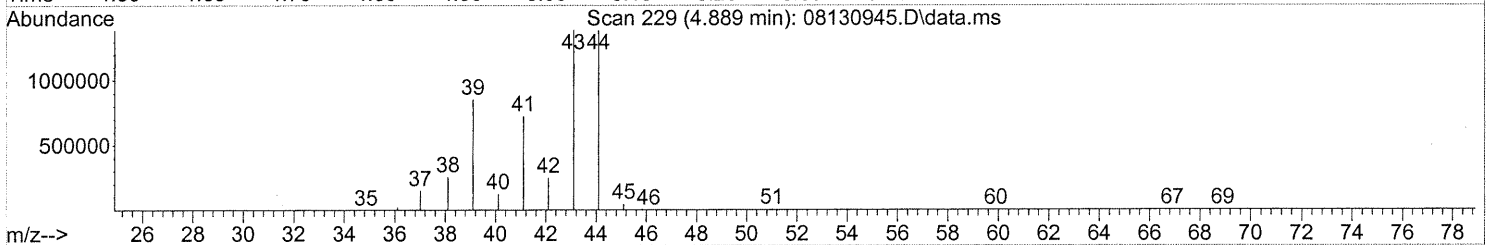
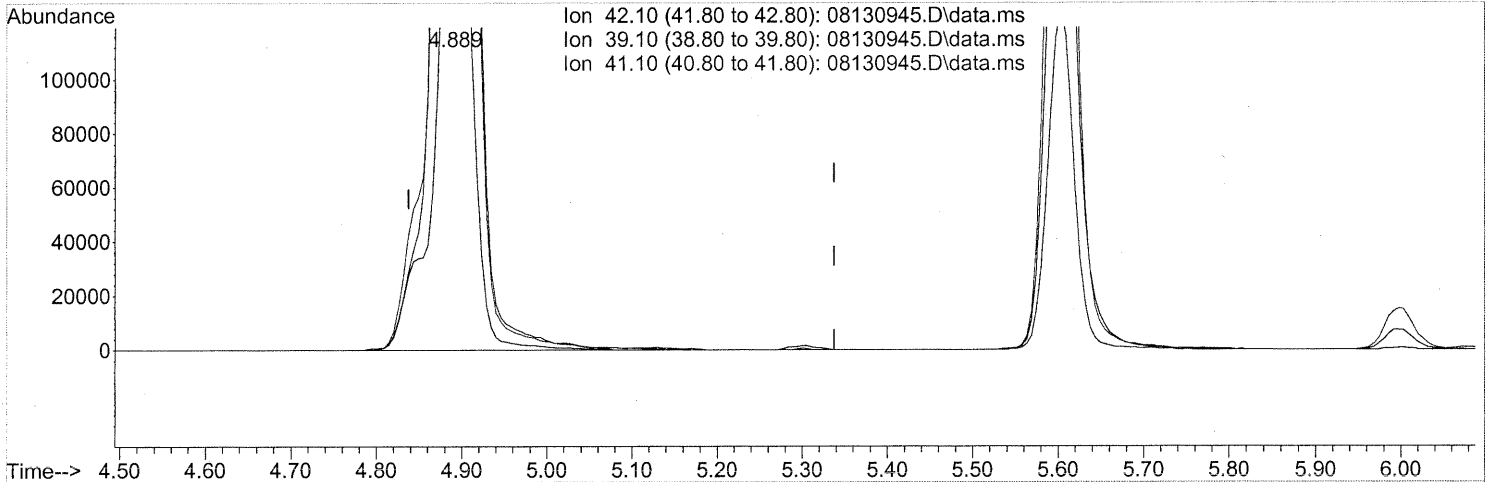
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	714	N.D.		
81) 2-Ethyltoluene	24.79	105	6838	0.063	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	18901	0.205	ng	90
83) n-Decane	25.15	57	13032	0.242	ng	97
84) Benzyl Chloride	25.21	91	1533	N.D.		
85) 1,3-Dichlorobenzene	25.24	146	443	N.D.		
86) 1,4-Dichlorobenzene	25.32	146	1332	N.D.		
87) sec-Butylbenzene	25.38	105	2150	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	23728	0.203	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	6324	0.068	ng	# 70
90) 1,2-Dichlorobenzene	25.75	146	528	N.D.		
91) d-Limonene	25.74	68	25353	0.671	ng	93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	11849	0.213	ng	92
94) 1,2,4-Trichlorobenzene	27.79	180	892	N.D.		
95) Naphthalene	27.94	128	14611	0.118	ng	97
96) n-Dodecane	27.89	57	10530	0.169	ng	# 78
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	49738	1.578	ng	93
99) tert-Butylbenzene	25.05	119	2425	N.D.		
100) n-Butylbenzene	26.07	91	5266	0.054	ng	# 54

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 11:55:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(2) Propene (T)

4.889min (+0.051) 20.08ng

response 638920

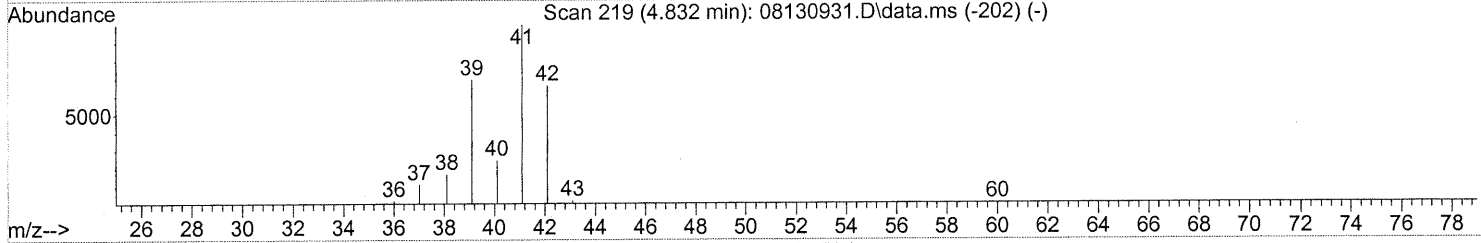
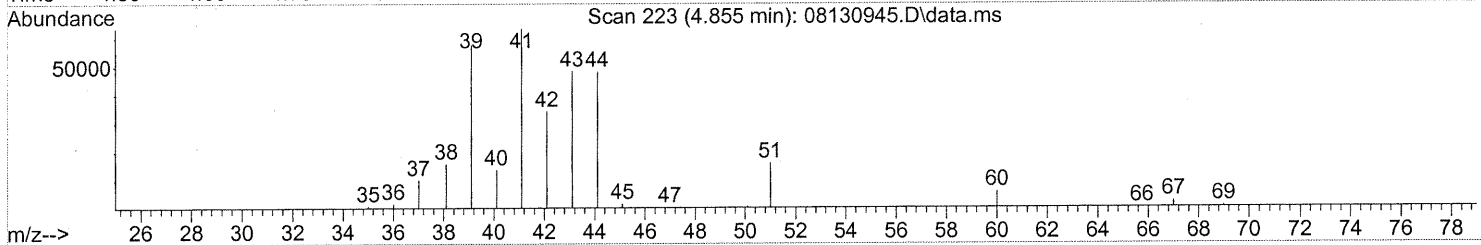
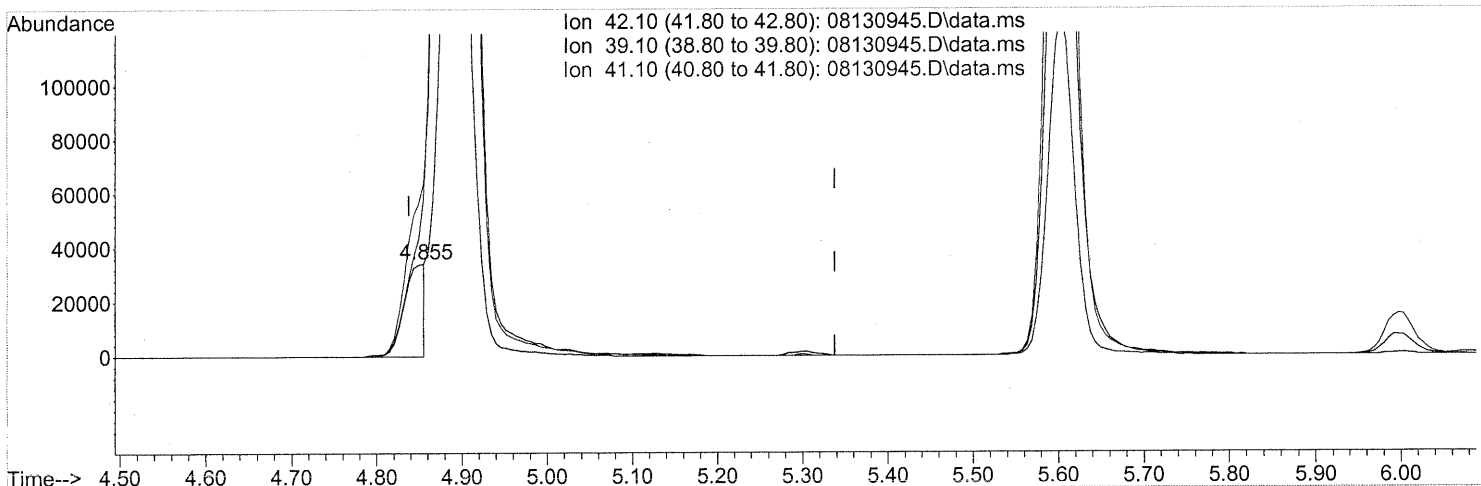
84

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	326.81#
41.10	152.70	281.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 11:55:23 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(2) Propene (T)
 4.855min (+0.017) 1.80ng m
 response 57268

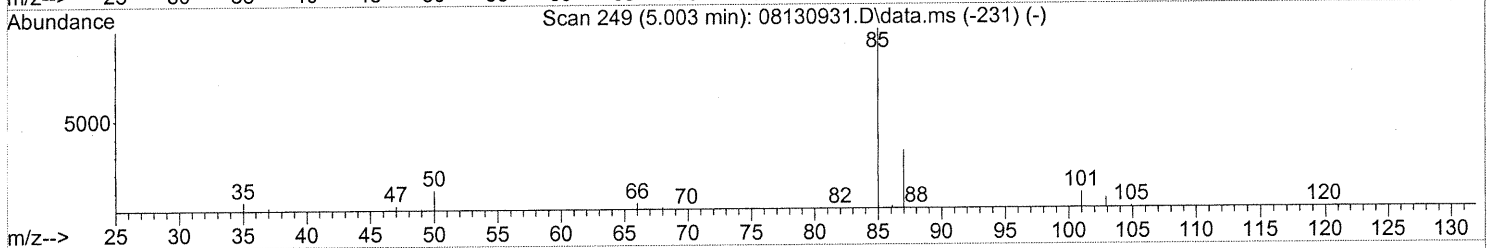
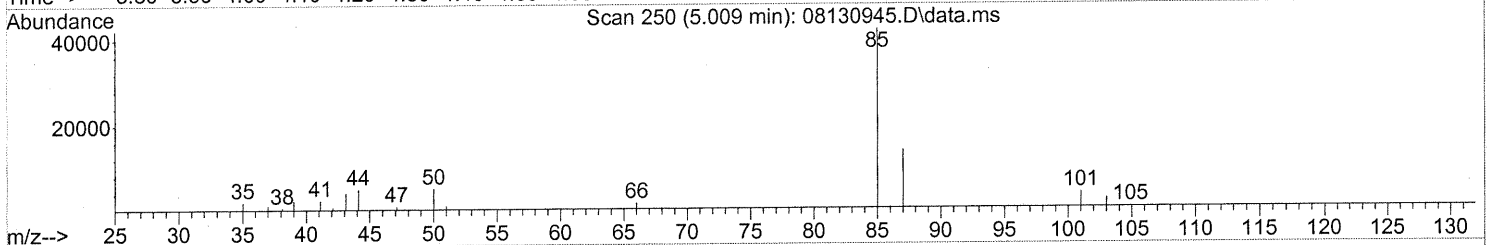
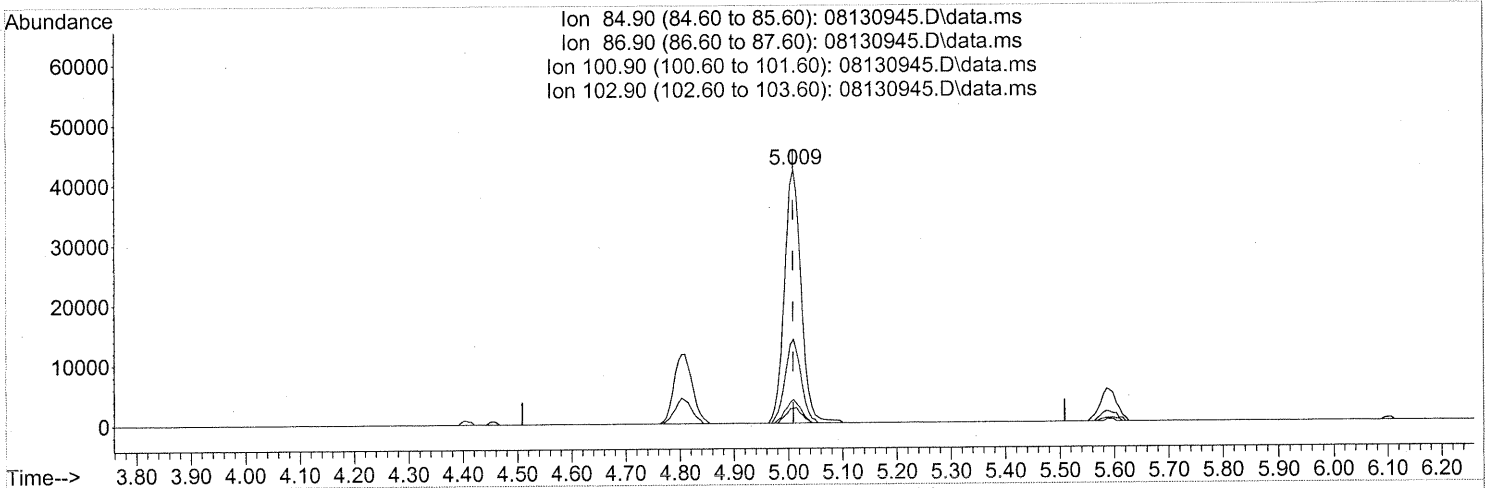
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	3646.09#
41.10	152.70	3140.69#
0.00	0.00	0.00

SH → IC
 em 8/17/09
 M 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (+0.000) 1.99ng

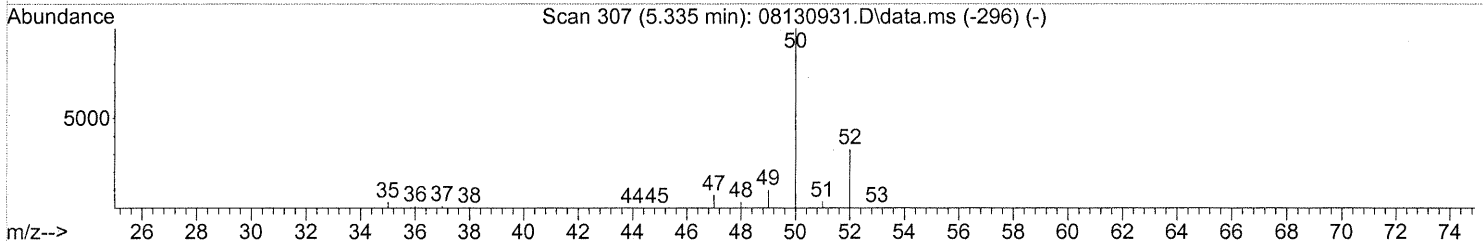
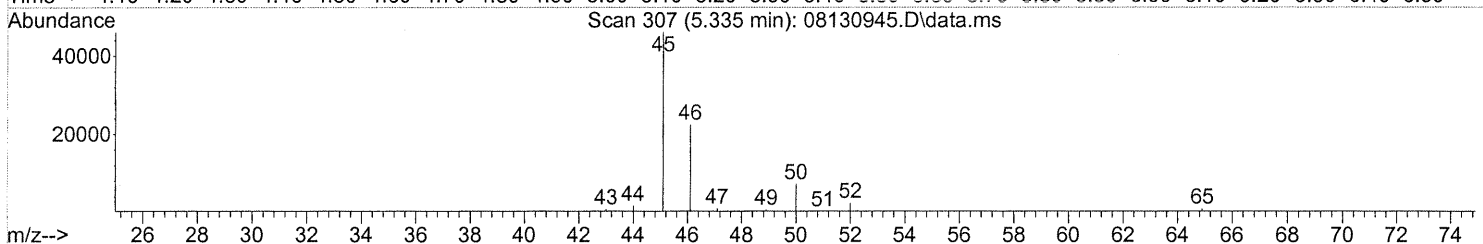
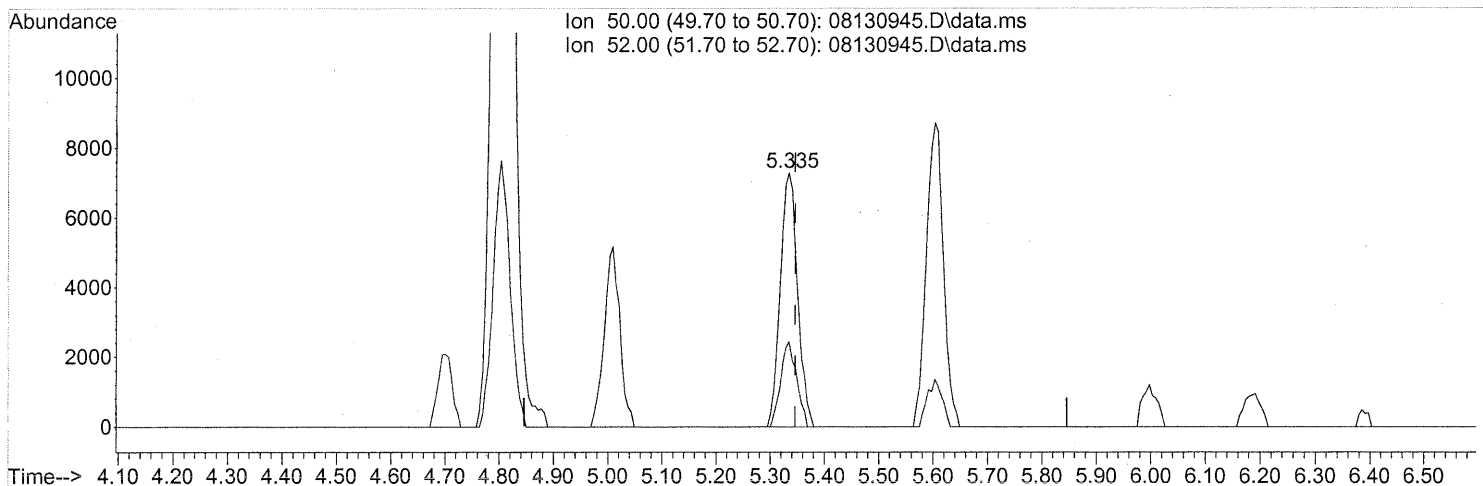
response 90291

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.52
100.90	9.10	8.34
102.90	5.50	5.48

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.335min (-0.011) 0.38ng
 response 16021

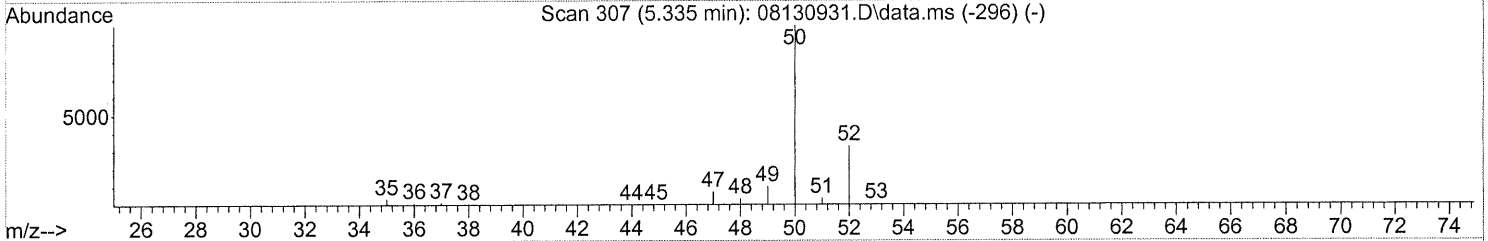
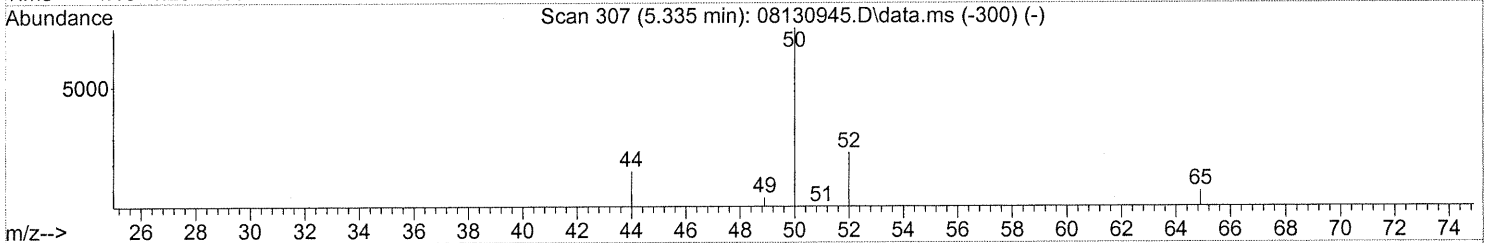
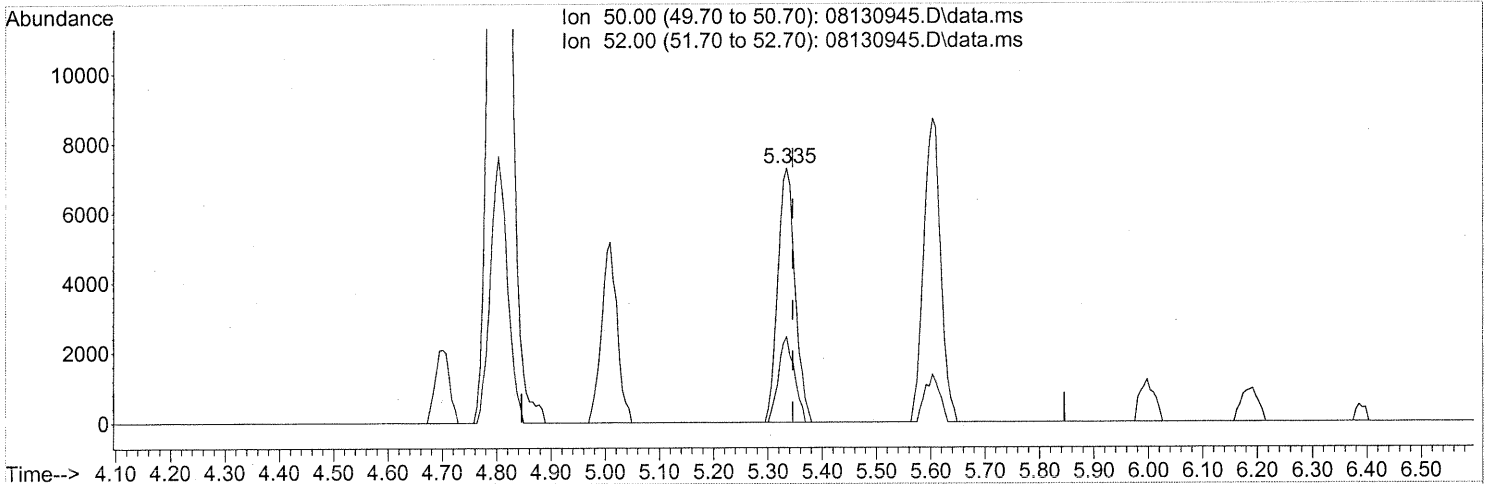
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.76
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)
 5.335min (-0.011) 0.38ng
 response 16021

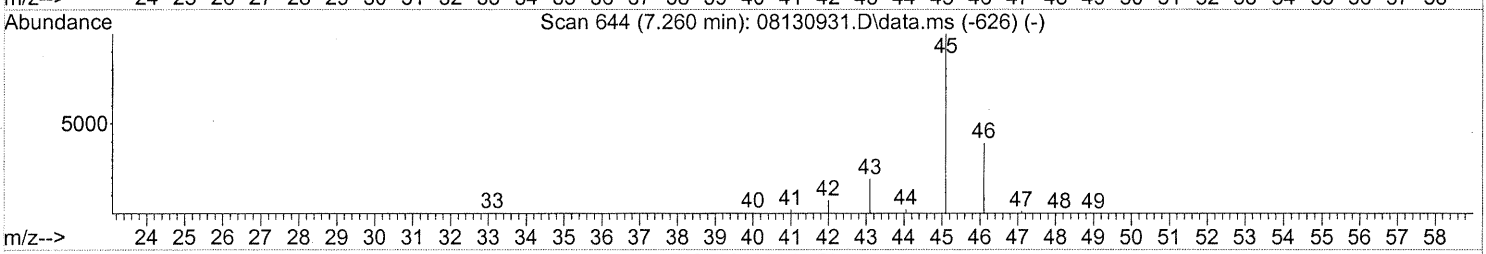
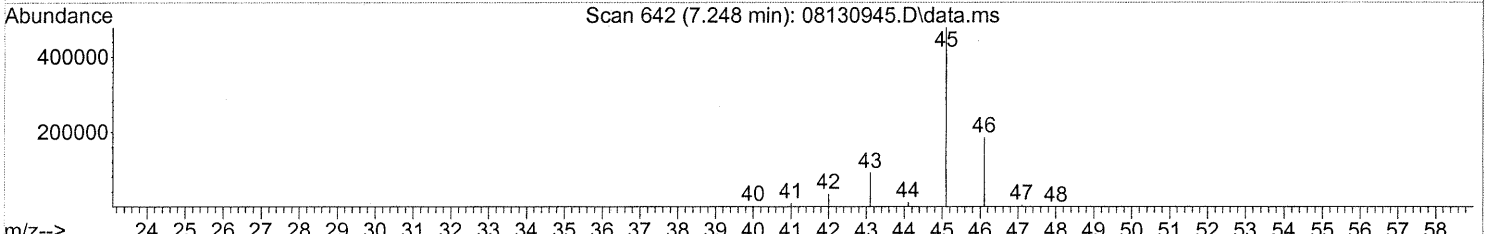
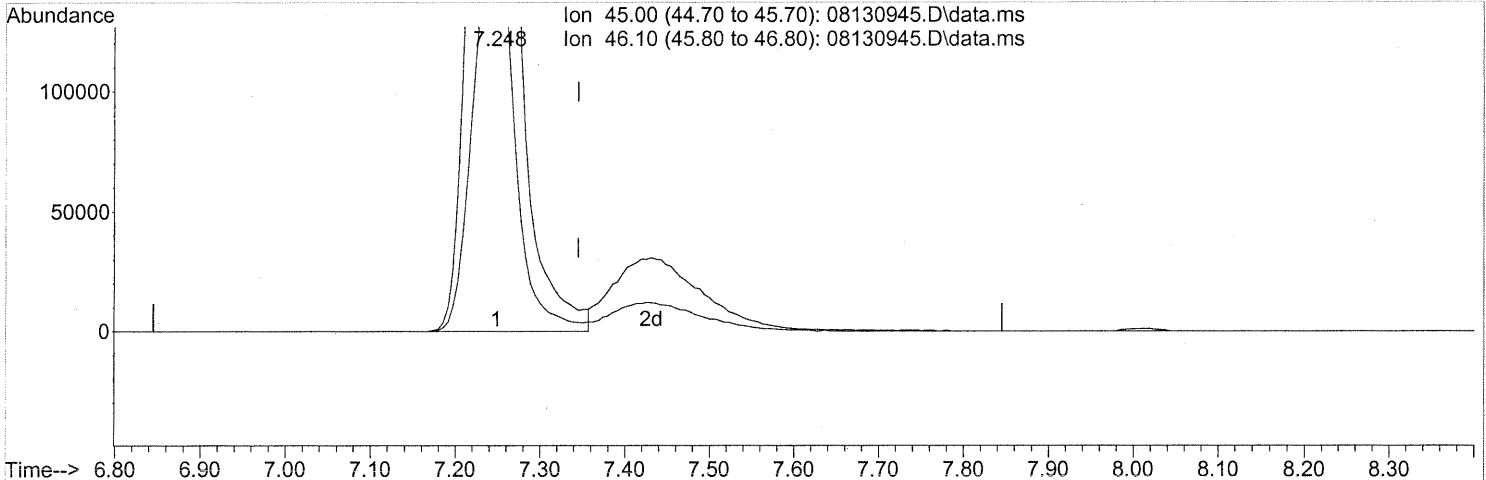
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.76
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
Em 8/17/09
11/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(10) Ethanol (T)

7.248min (-0.097) 75.16ng

response 1500300

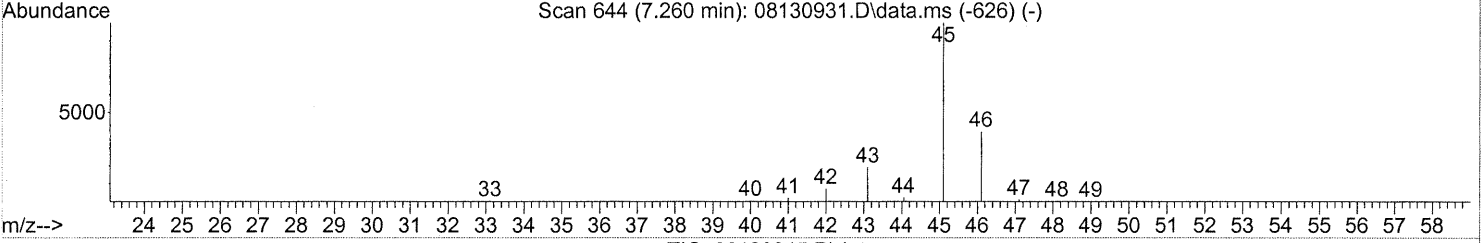
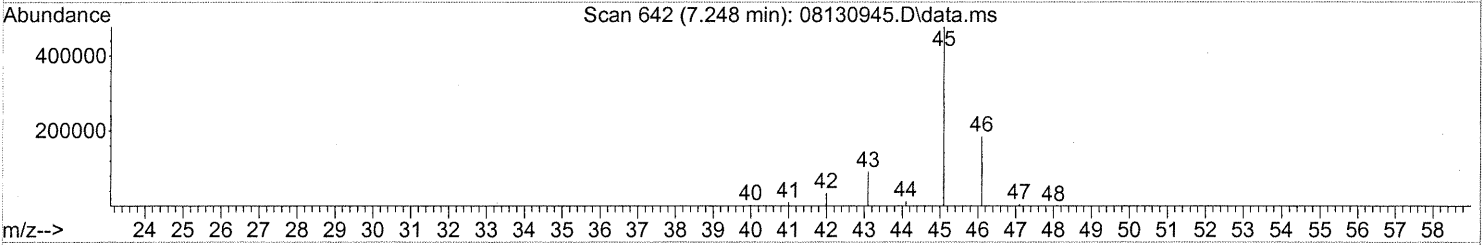
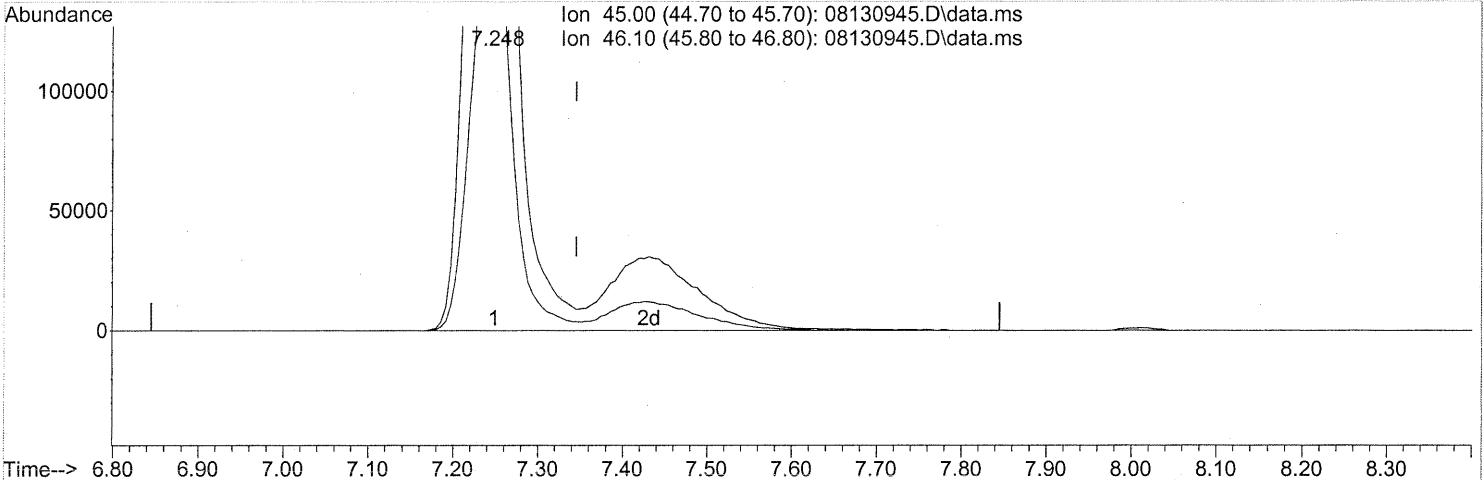
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(10) Ethanol (T)

7.248min (-0.097) 86.45ng m

response 1725549

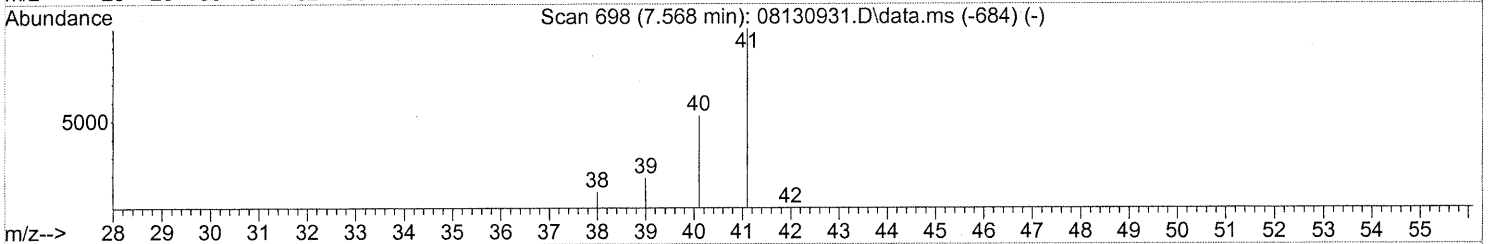
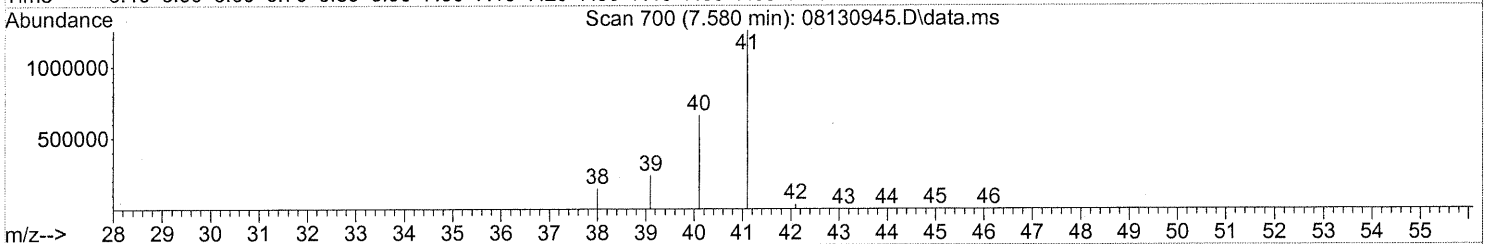
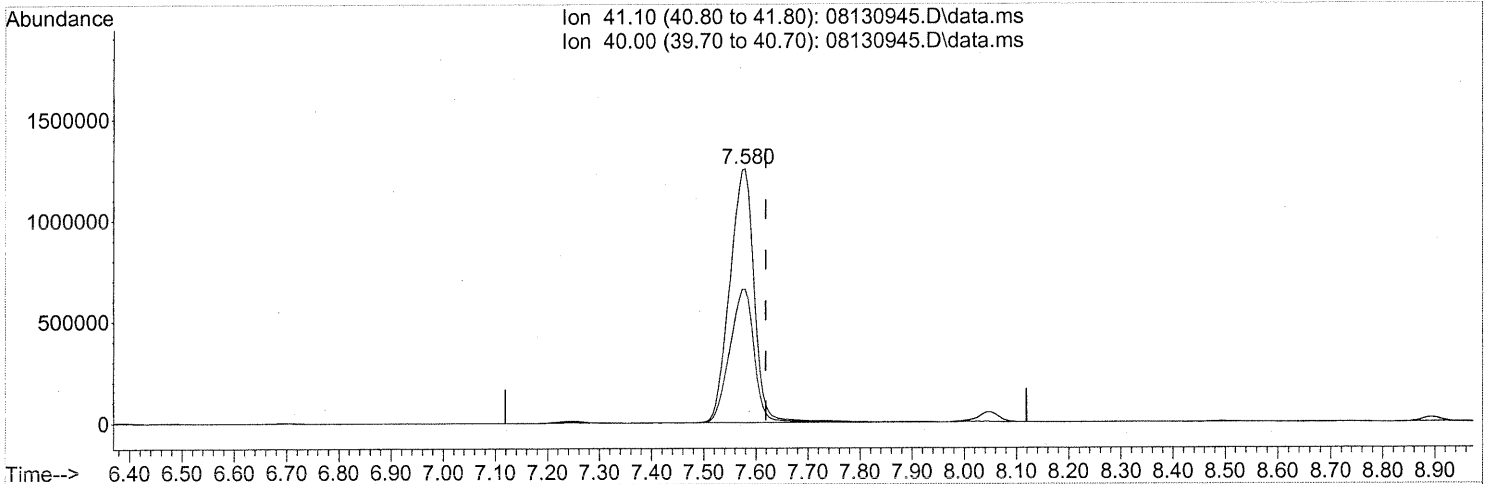
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	33.69
0.00	0.00	0.00
0.00	0.00	0.00

PT → C
em 8/17/09
LM 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(11) Acetonitrile (T)

7.580min (-0.040) 83.72ng

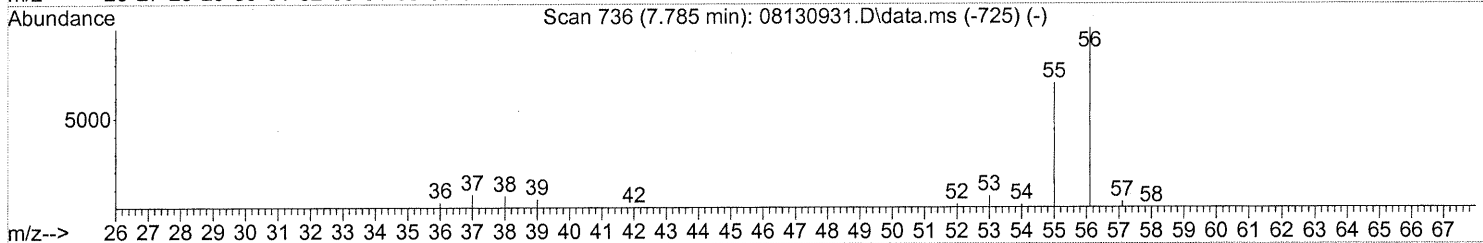
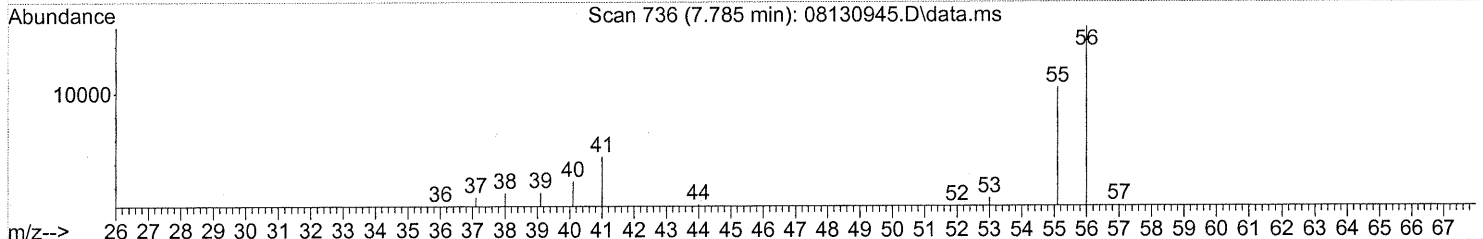
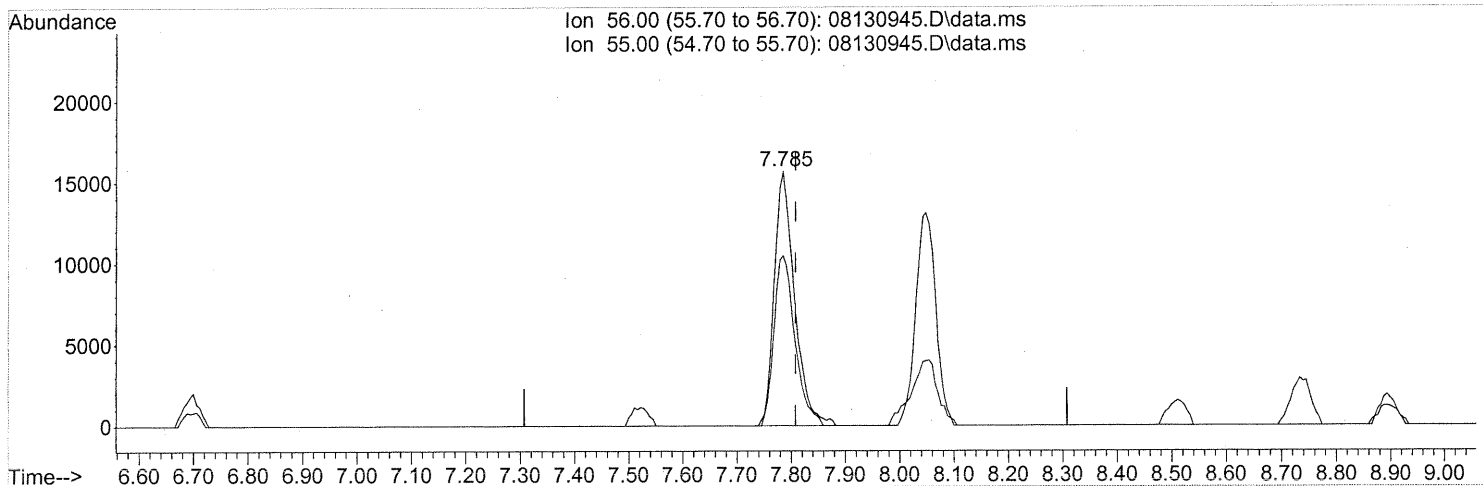
response 4078290

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

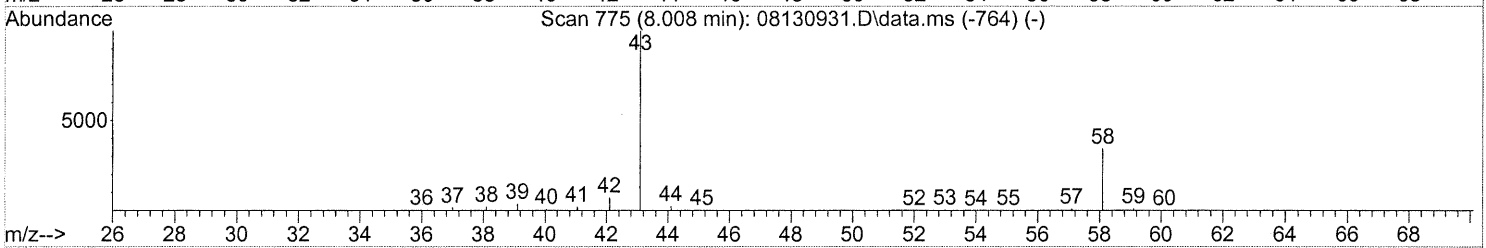
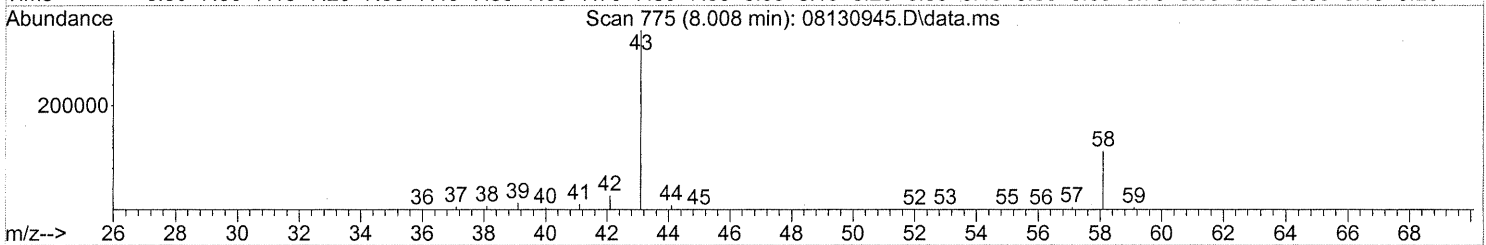
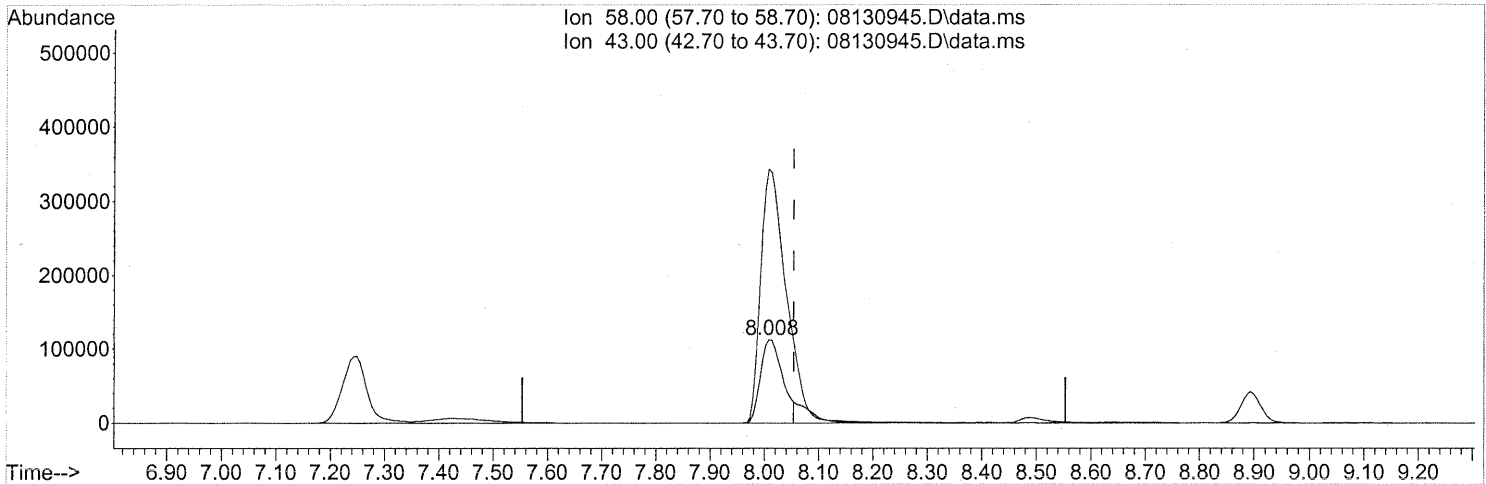
(12) Acrolein (T)
 7.785min (-0.023) 3.12ng
 response 40670

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	69.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(13) Acetone (T)
 8.008min (-0.046) 18.52ng
 response 376239

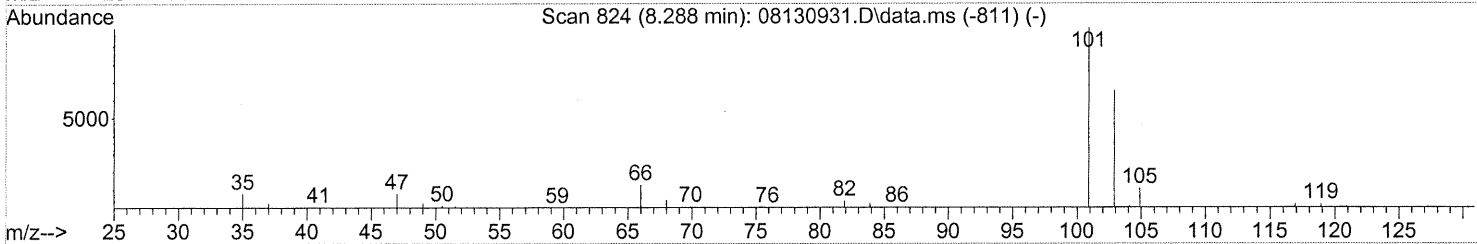
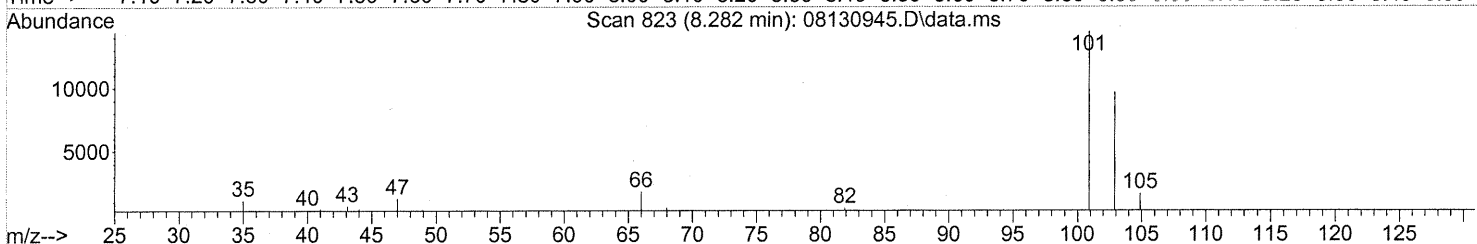
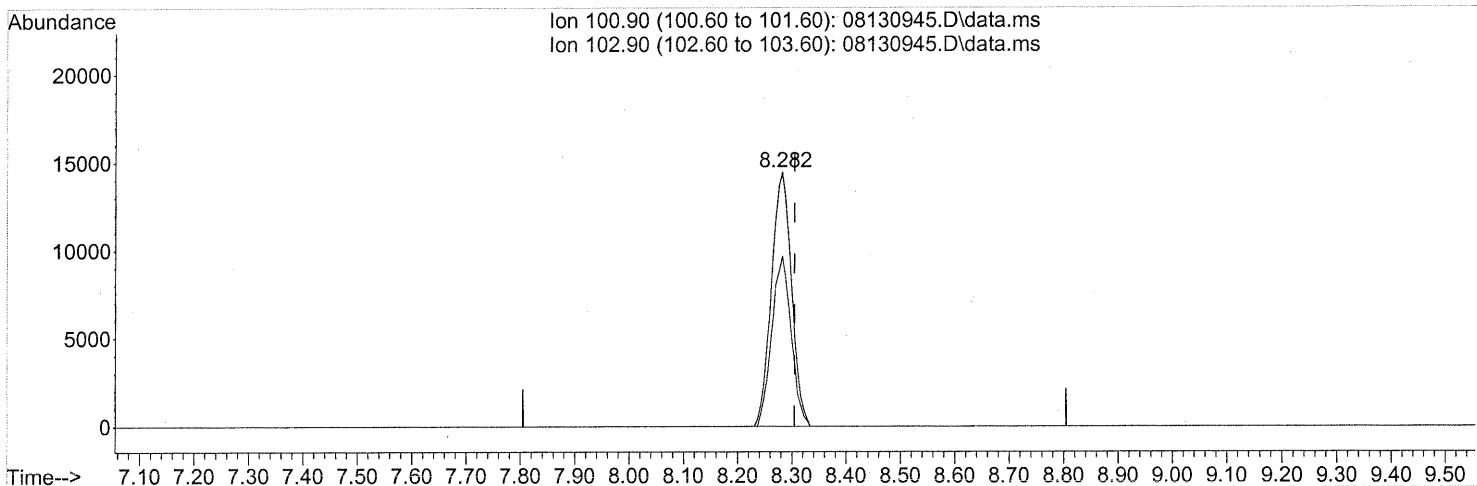
EM

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	301.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130945.D
Acq On : 14 Aug 2009 16:22
Operator : EM
Sample : P0902720-002 (1000ml)
Misc : Environmental H & E 99935
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130945.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.95ng

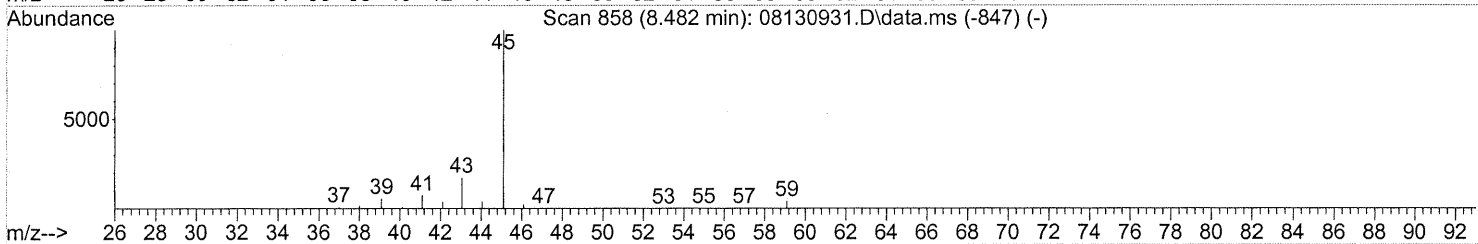
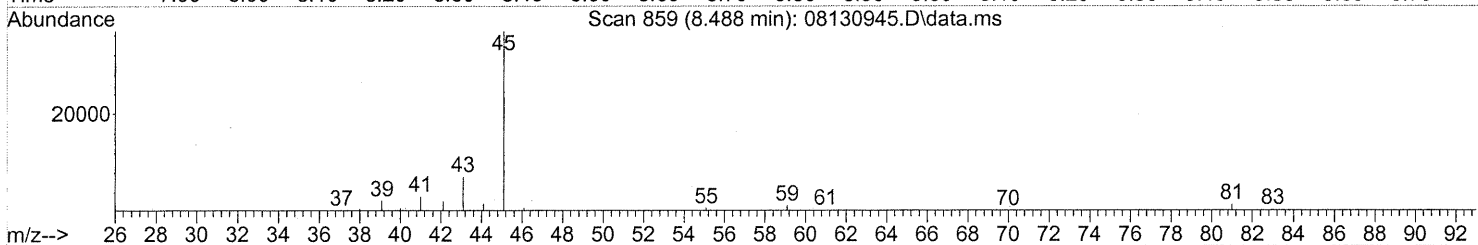
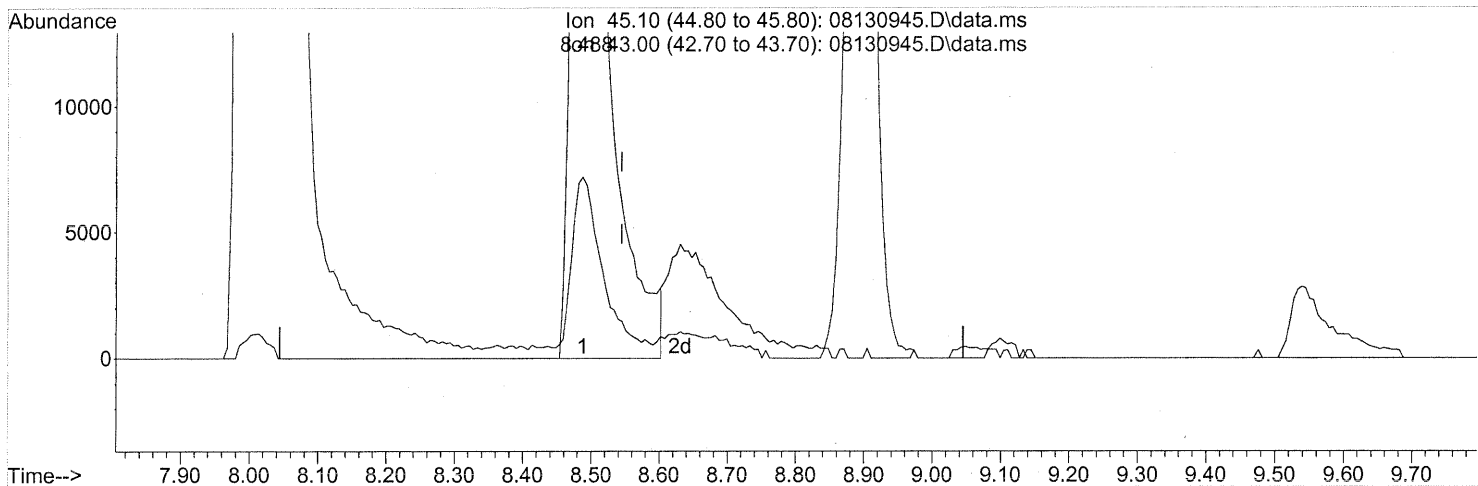
response 36876

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

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

8.488min (-0.057) 2.14ng

response 119048

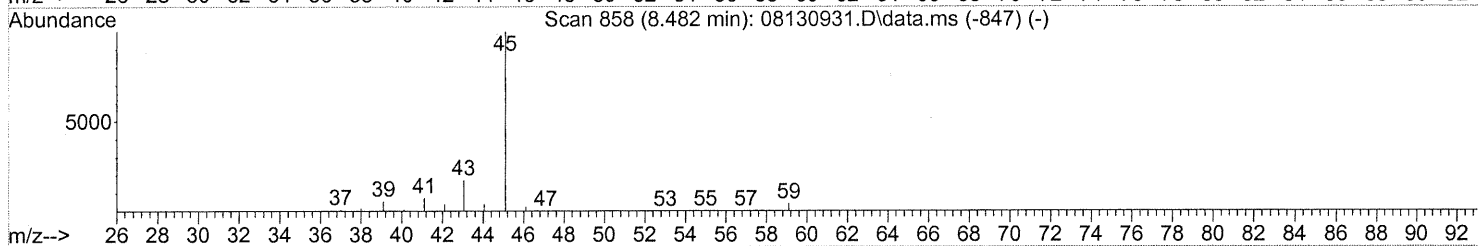
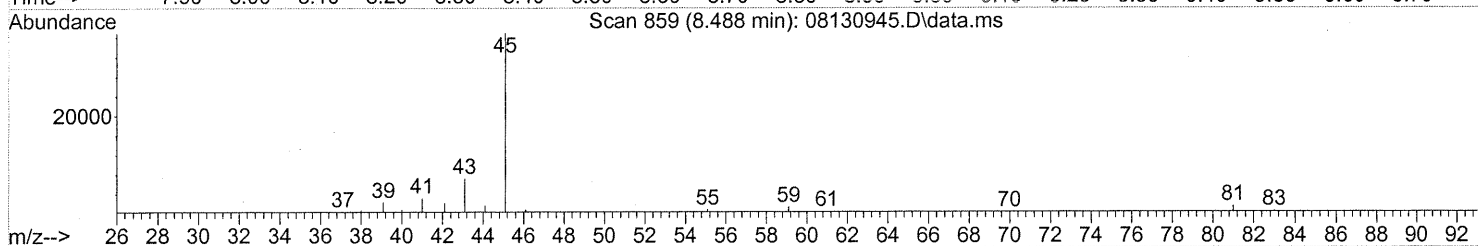
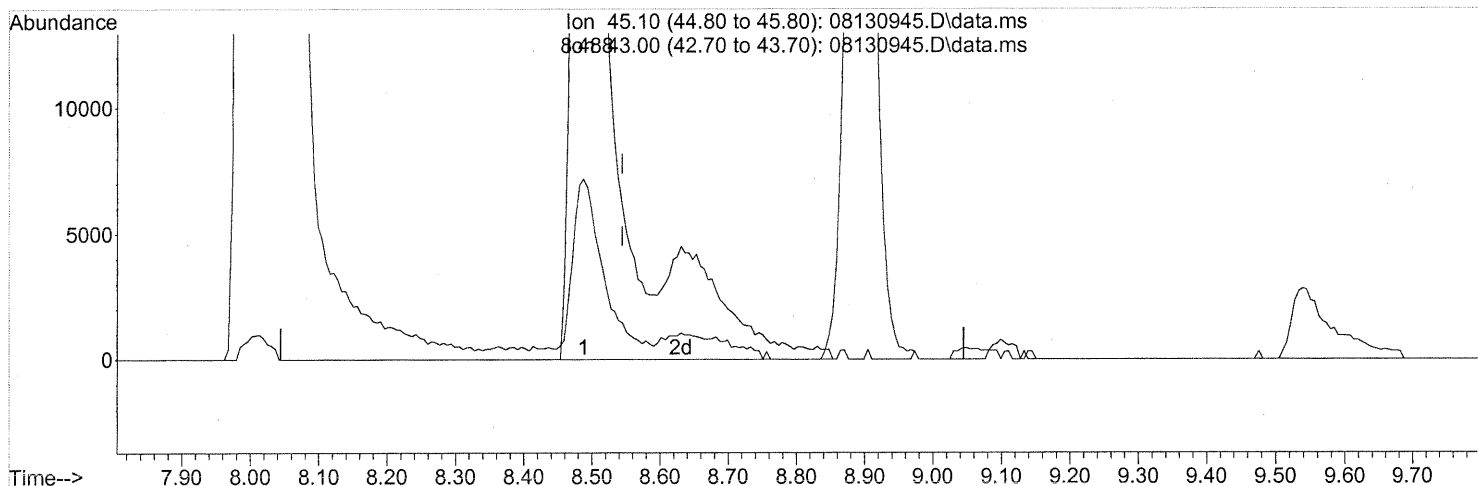
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.50
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

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

8.488min (-0.057) 2.63ng m

response 146361

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	14.23
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC

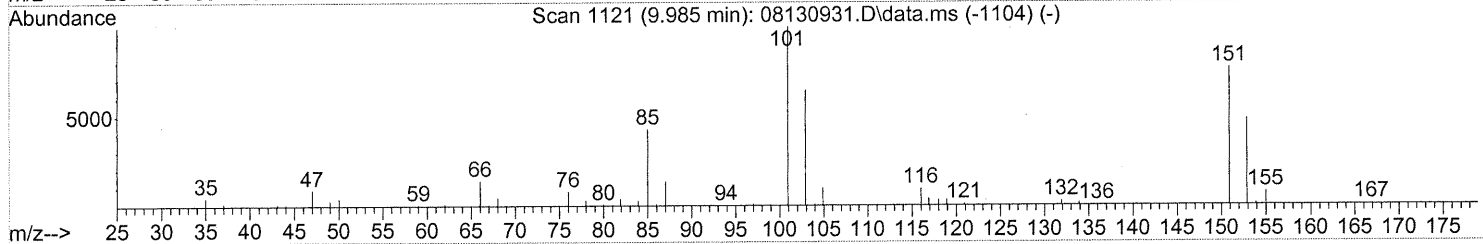
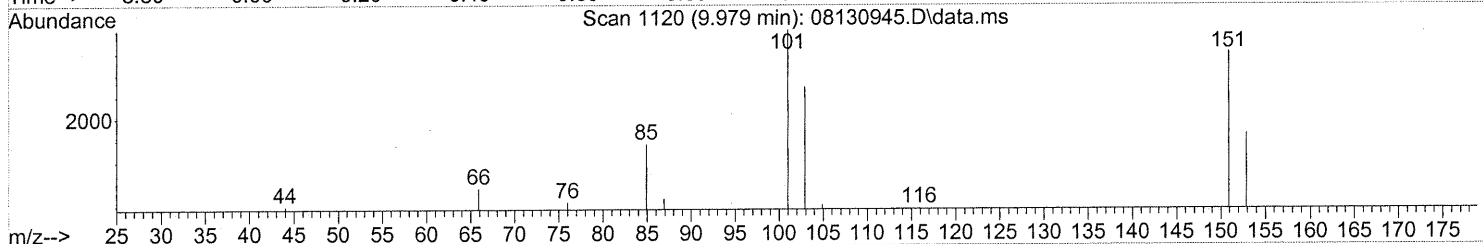
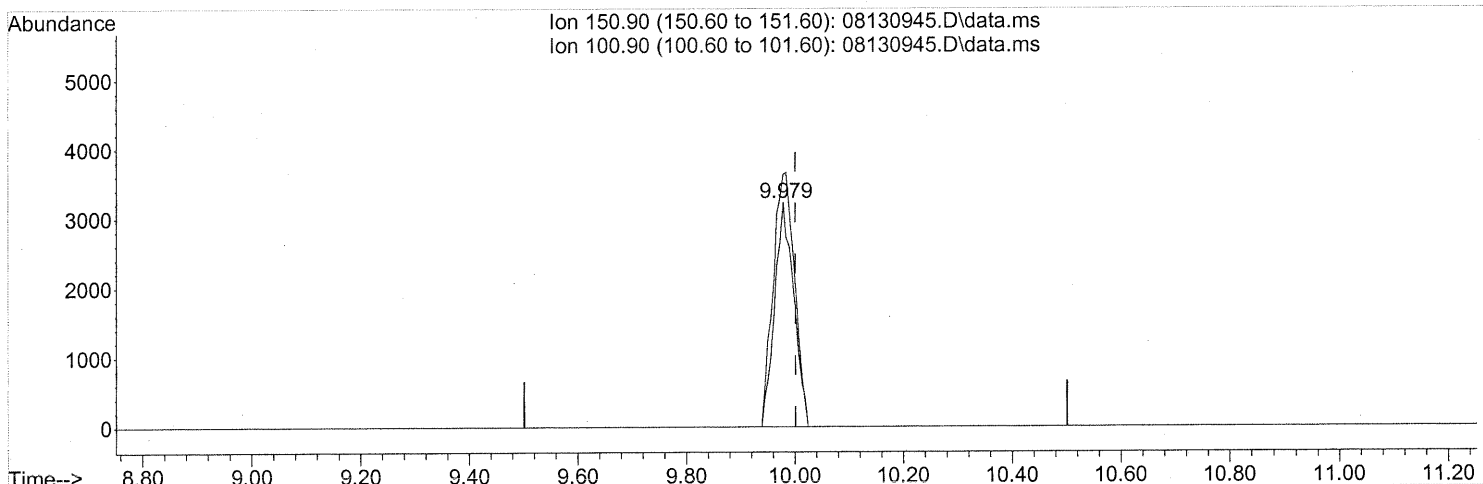
Em 8/17/09

um 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.45ng

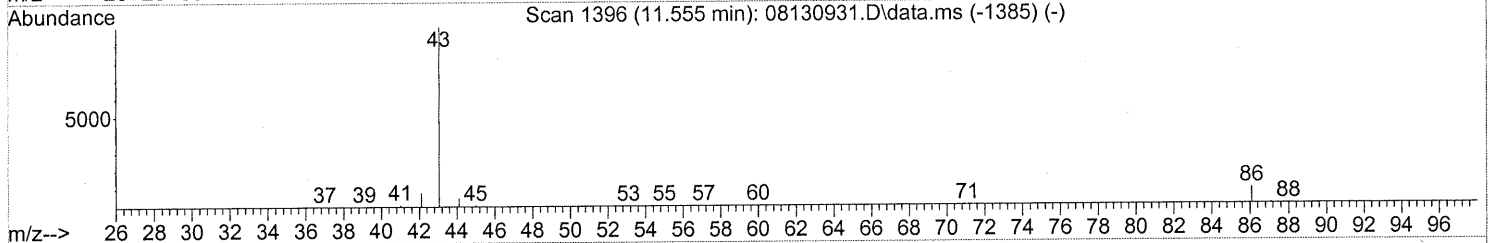
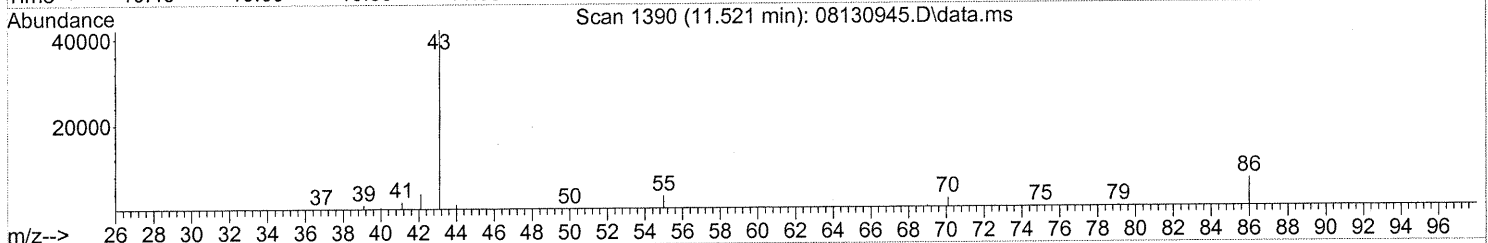
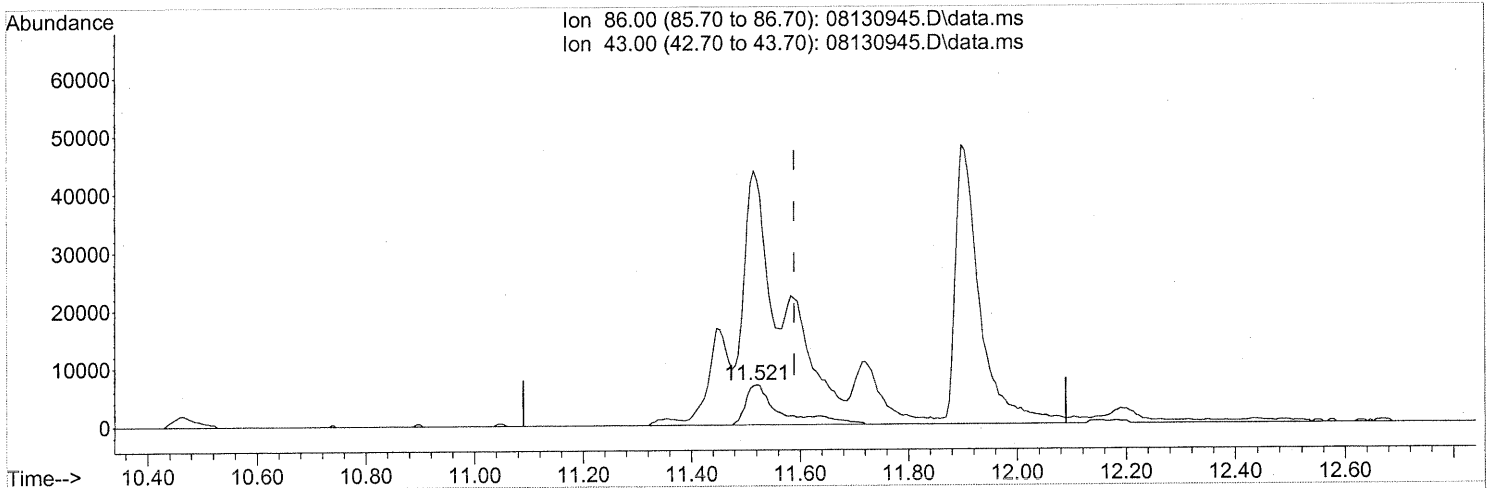
response 7871

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	126.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(26) Vinyl Acetate (T)

11.521min (-0.069) 6.80ng

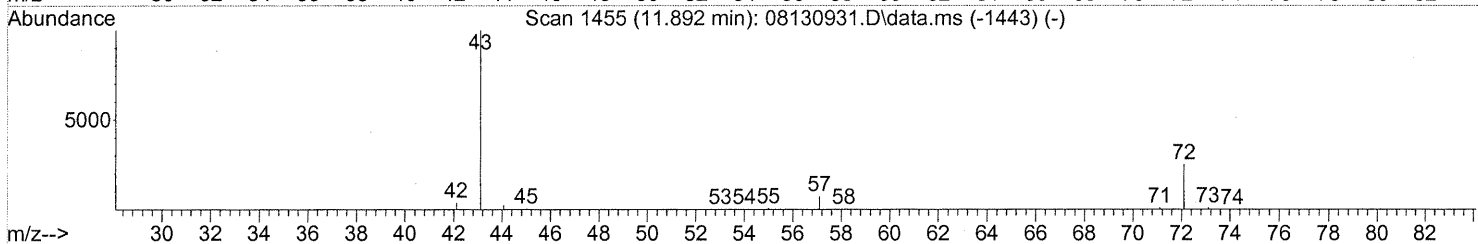
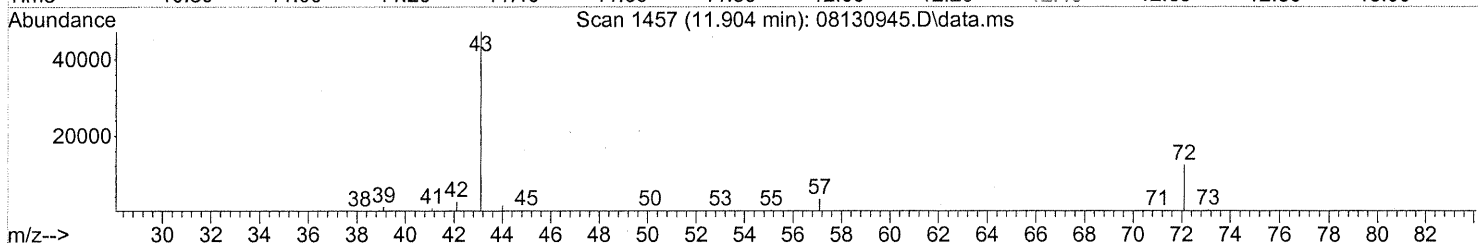
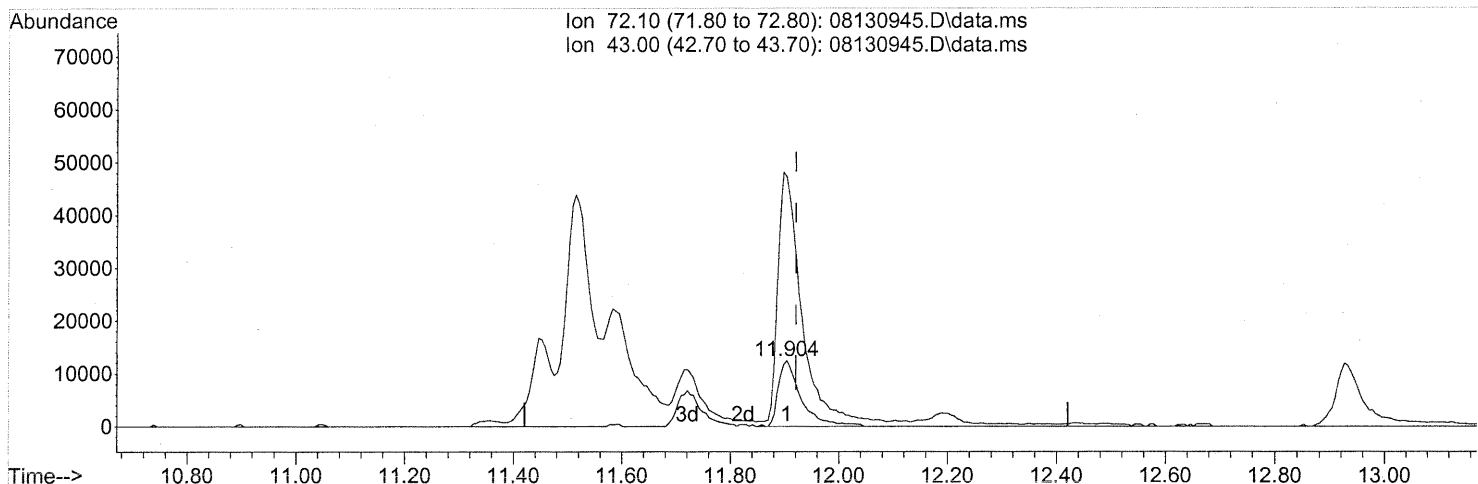
response 29901

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	471.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

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

11.904min (-0.017) 2.53ng

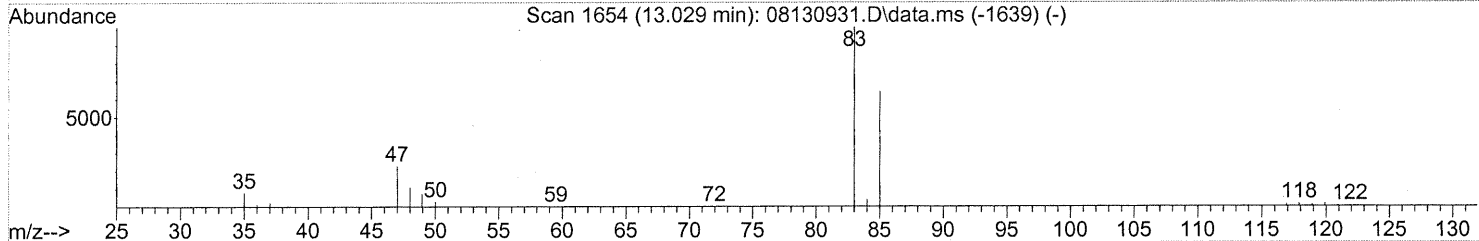
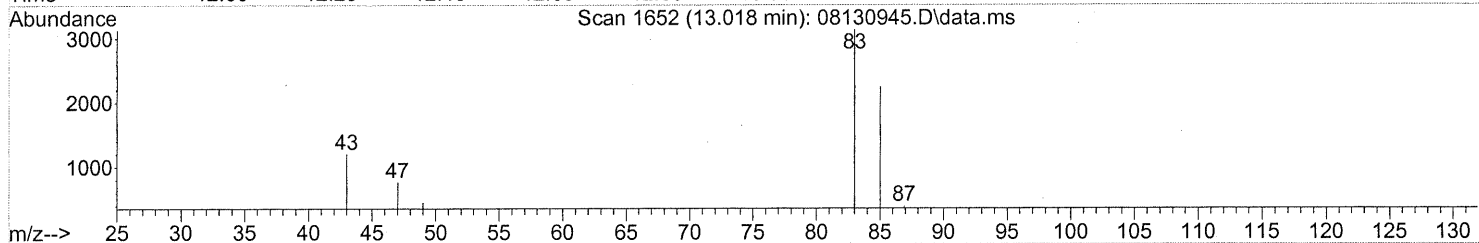
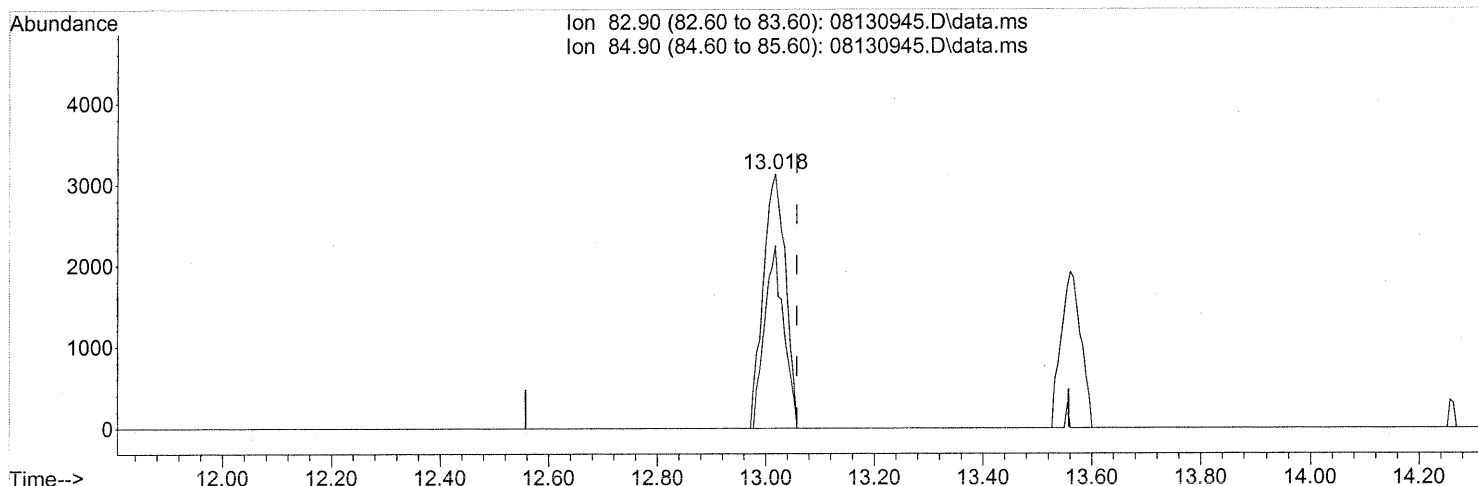
response 35813

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	385.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

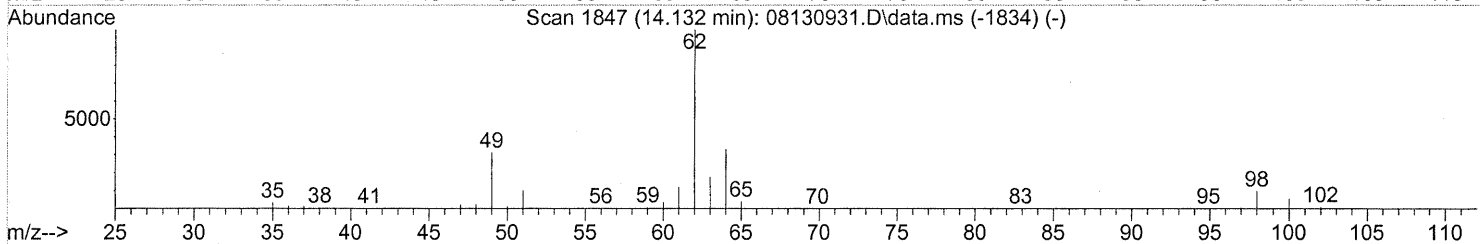
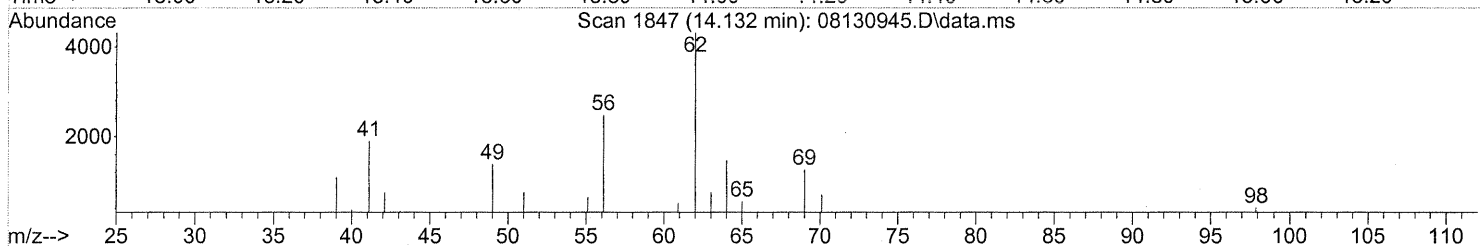
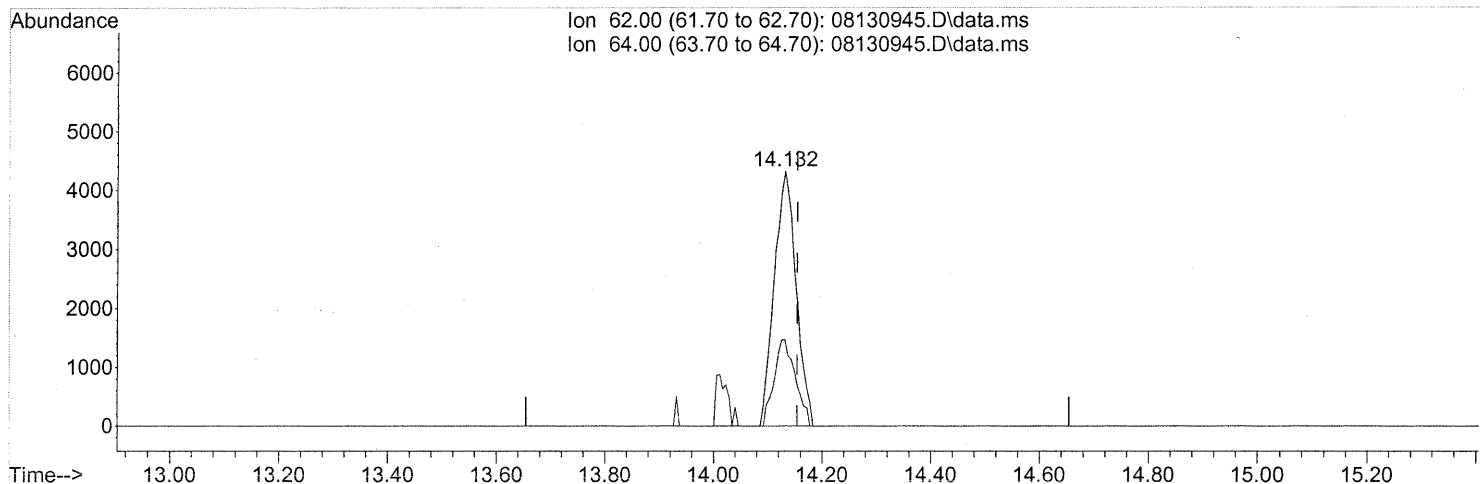
(32) Chloroform (T)
 13.018min (-0.040) 0.24ng
 response 8868

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	62.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.42ng

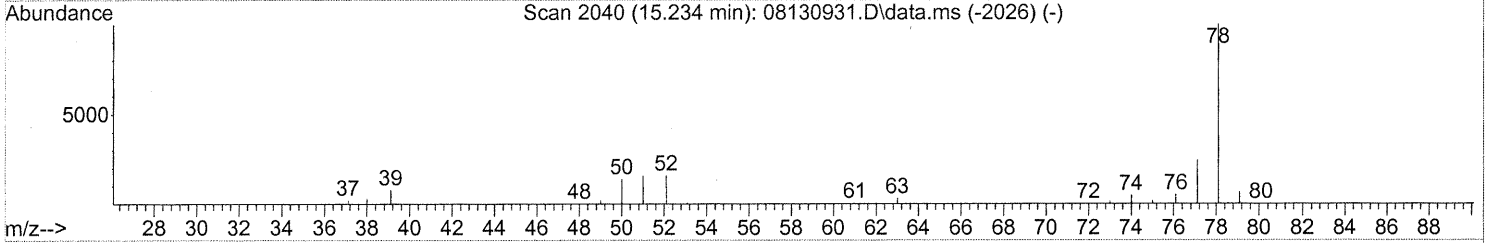
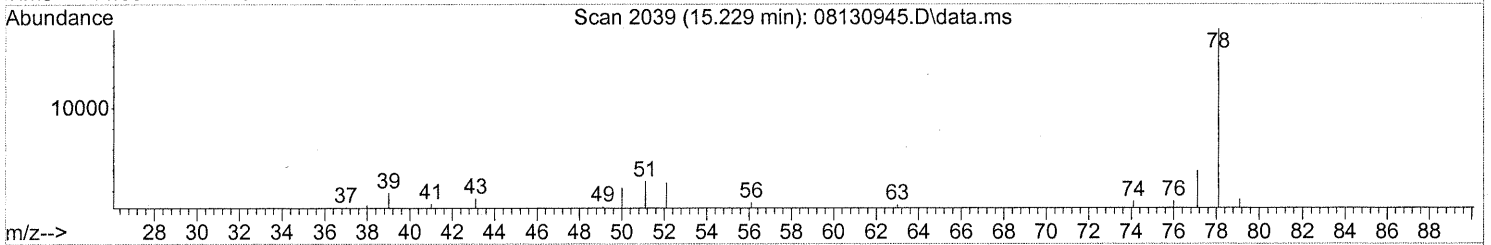
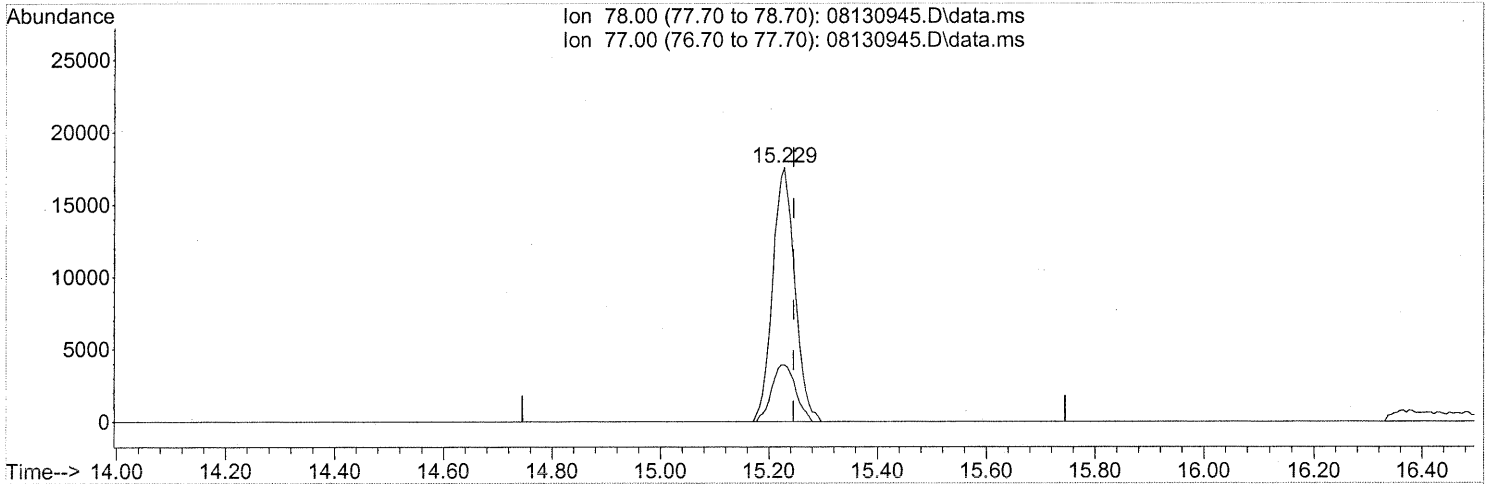
response 12020

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	33.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(41) Benzene (T)

15.229min (-0.017) 0.50ng

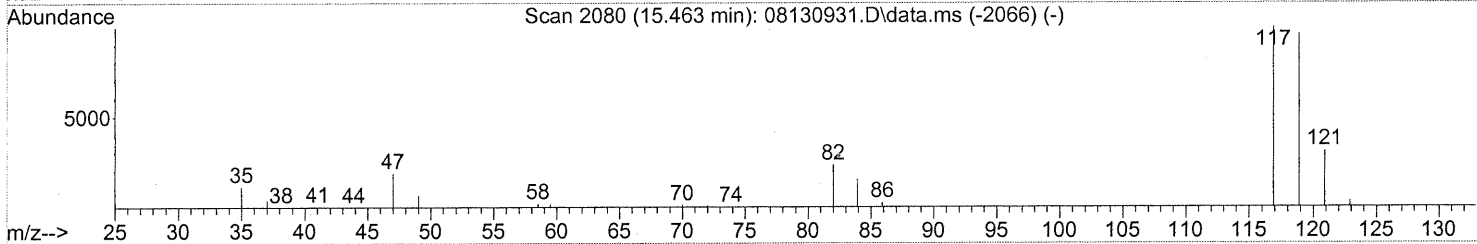
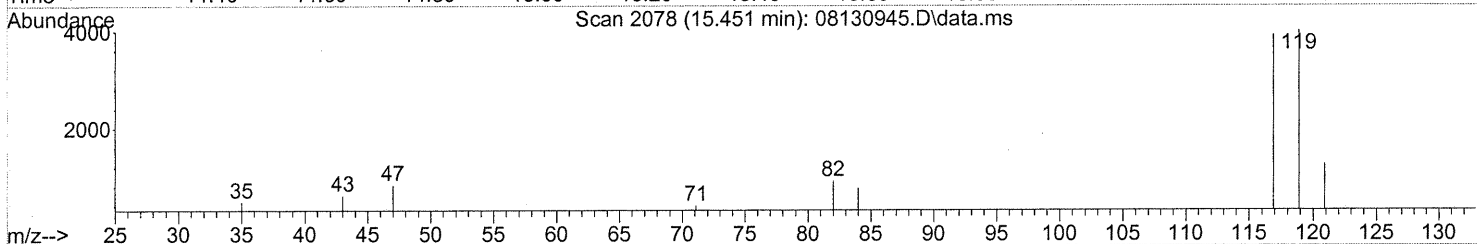
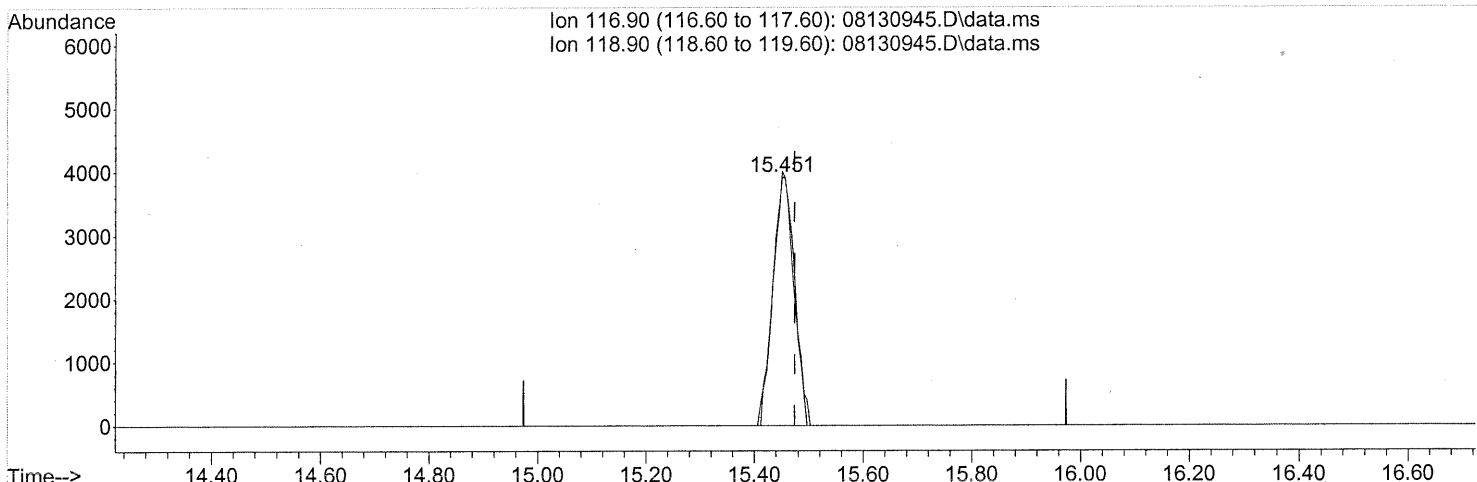
response 49916

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.39ng

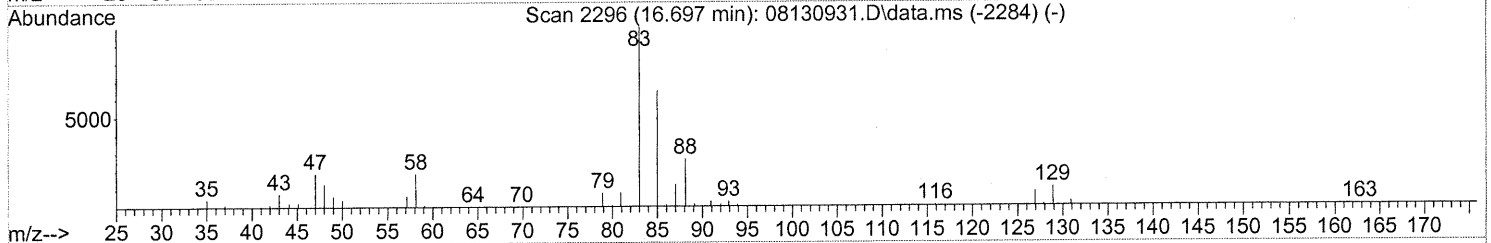
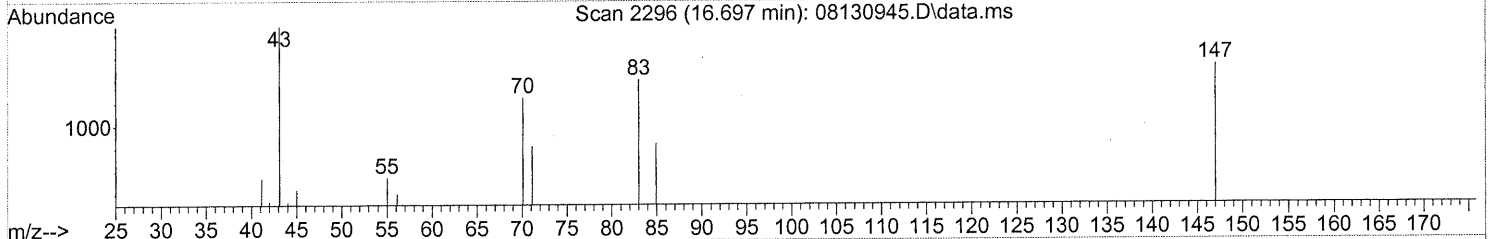
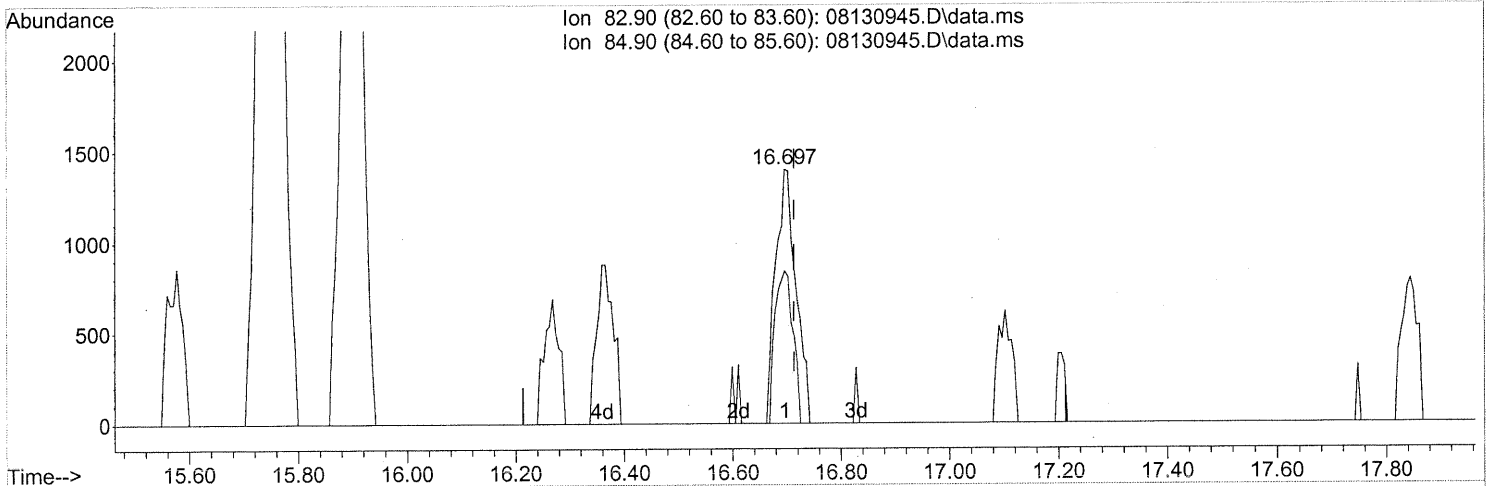
response 10701

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	99.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.697min (-0.017) 0.13ng

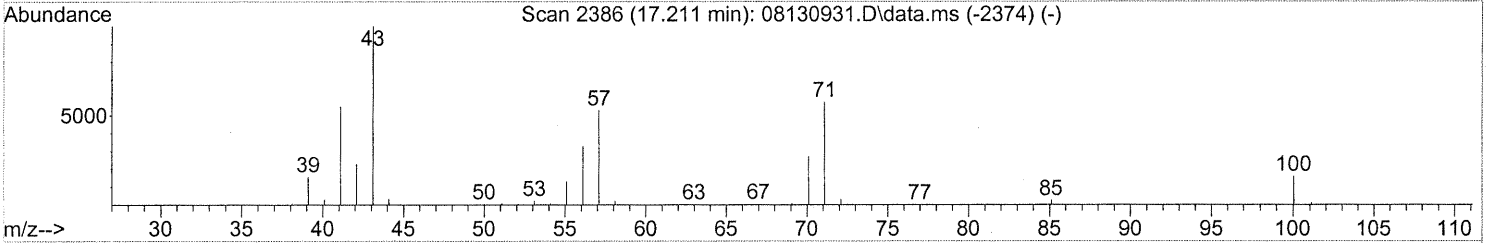
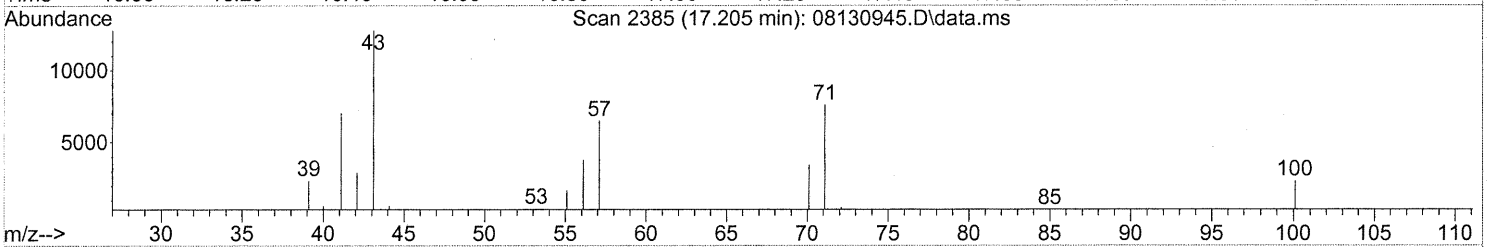
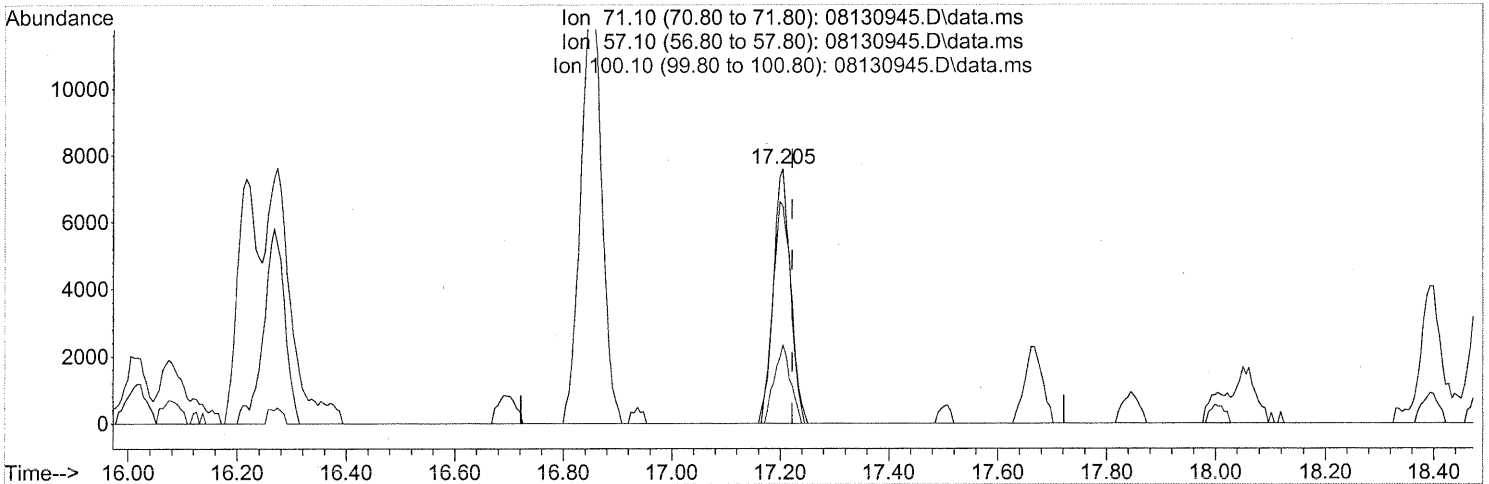
response 3643

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	52.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

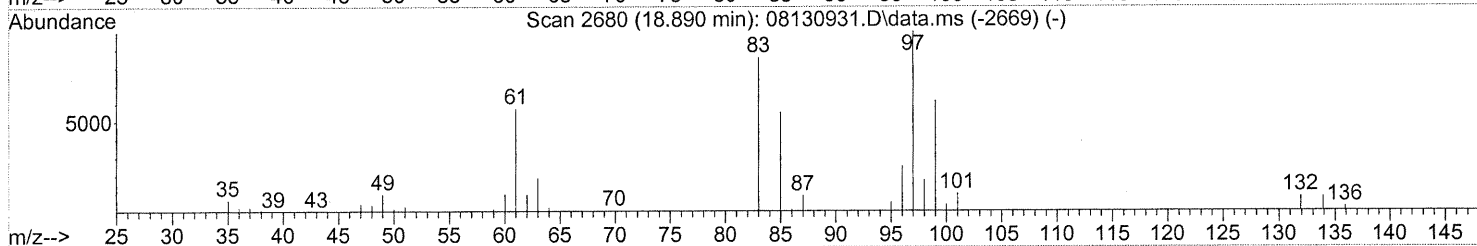
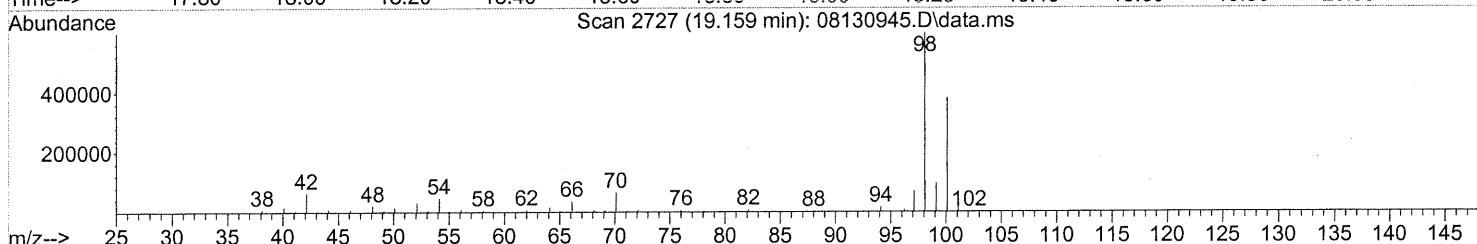
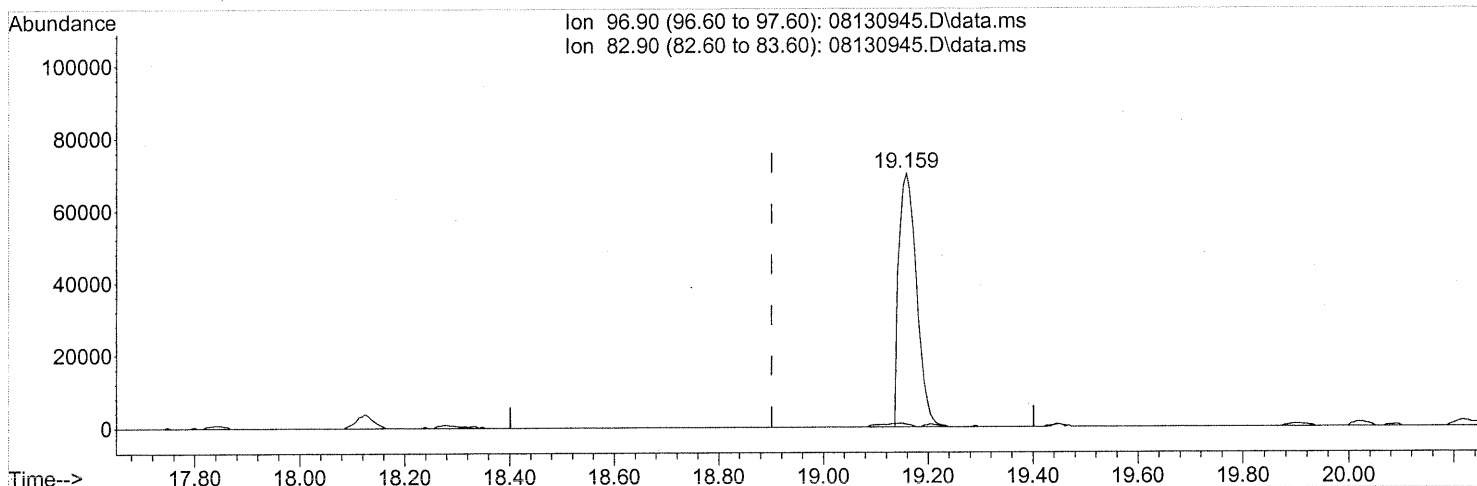
(51) n-Heptane (T)
 17.205min (-0.017) 0.64ng
 response 16793

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	91.39
100.10	30.70	28.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

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

19.159min (+0.257) 7.77ng

response 164954

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	2.07#
0.00	0.00	0.00
0.00	0.00	0.00

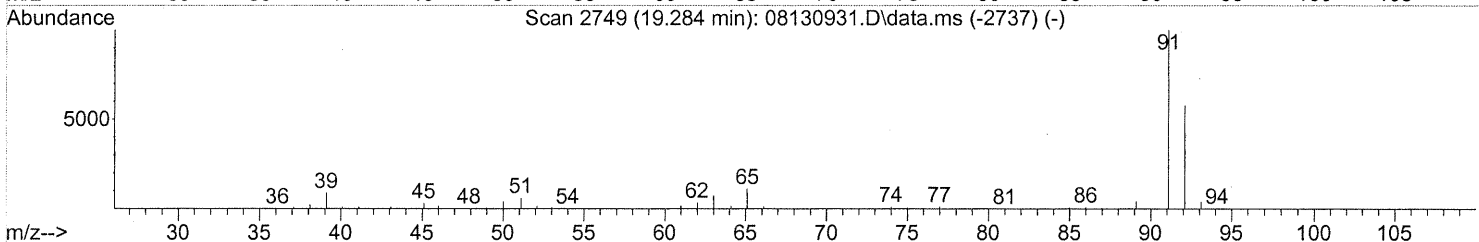
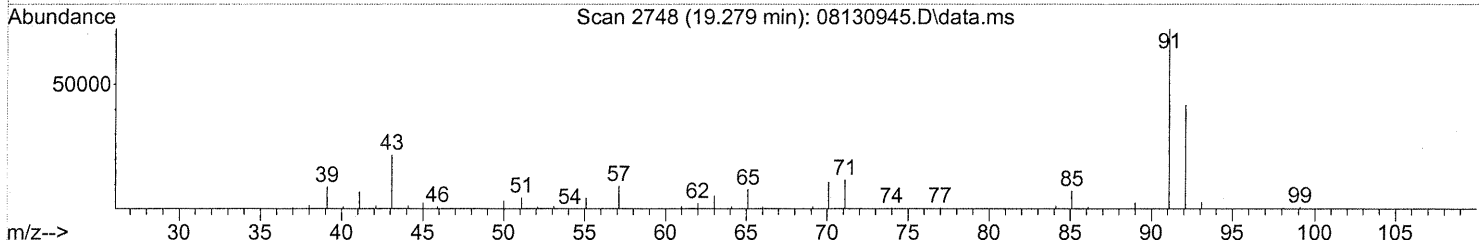
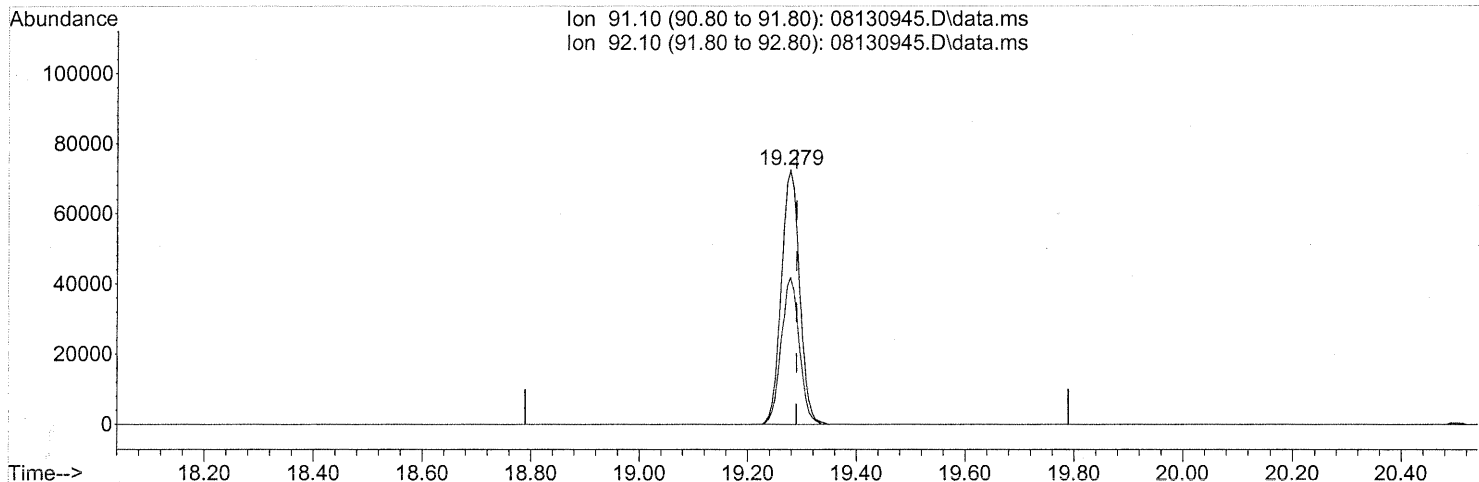
FP Em 8/17/09

WA 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 1.68ng

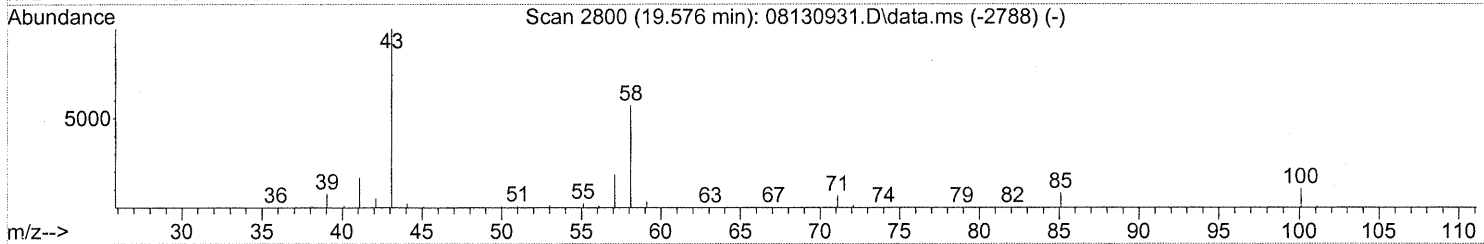
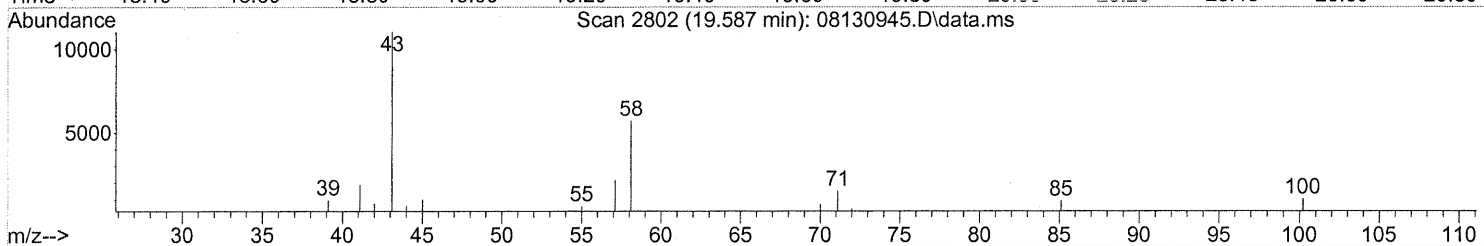
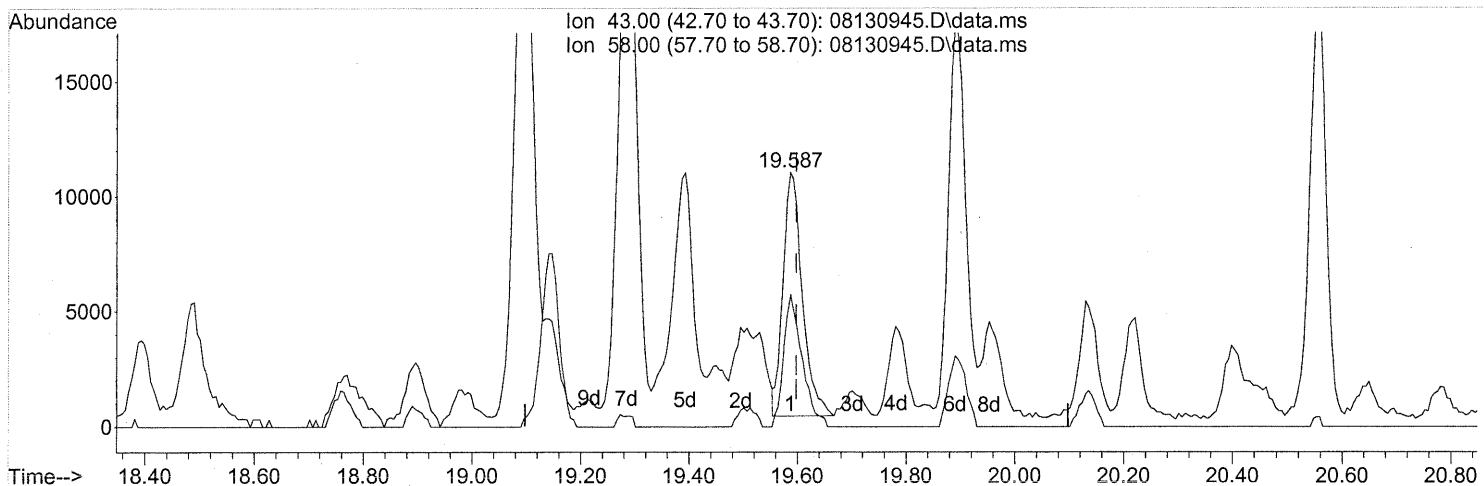
response 168590

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	56.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

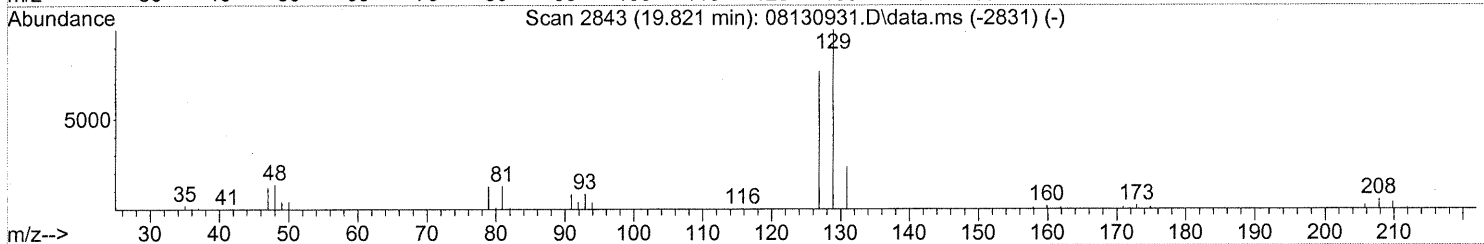
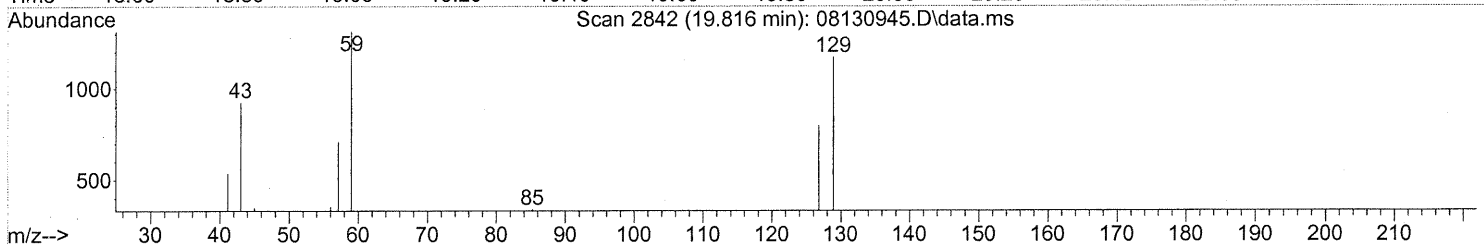
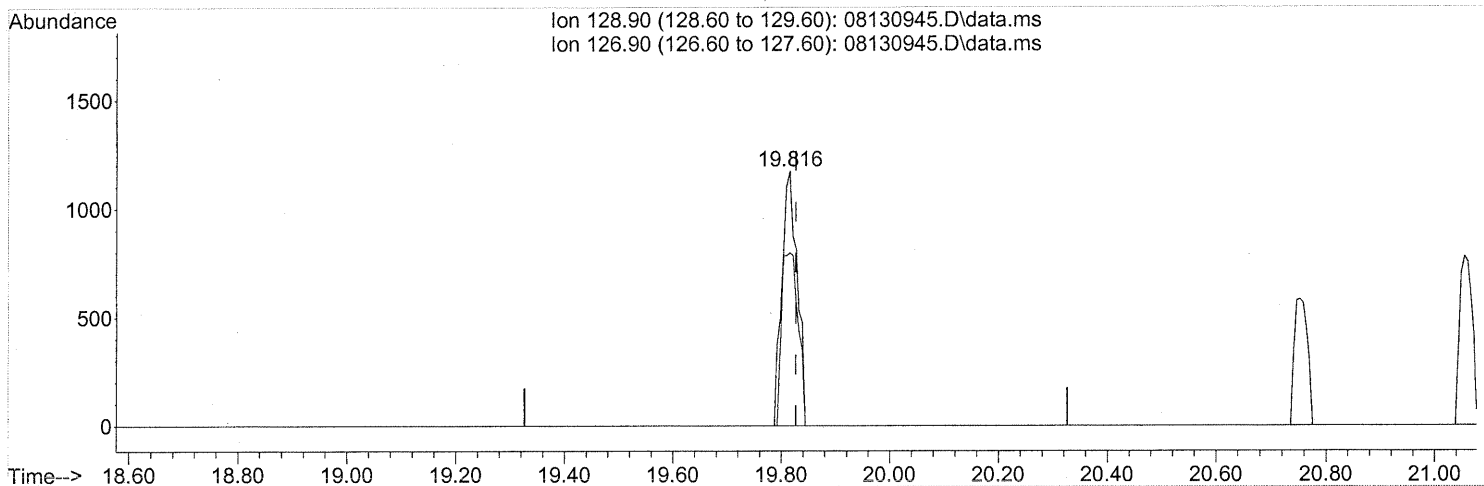
(59) 2-Hexanone (T)
 19.587min (-0.011) 0.50ng
 response 26051

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	51.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(60) Dibromochloromethane (T)

19.816min (-0.011) 0.11ng

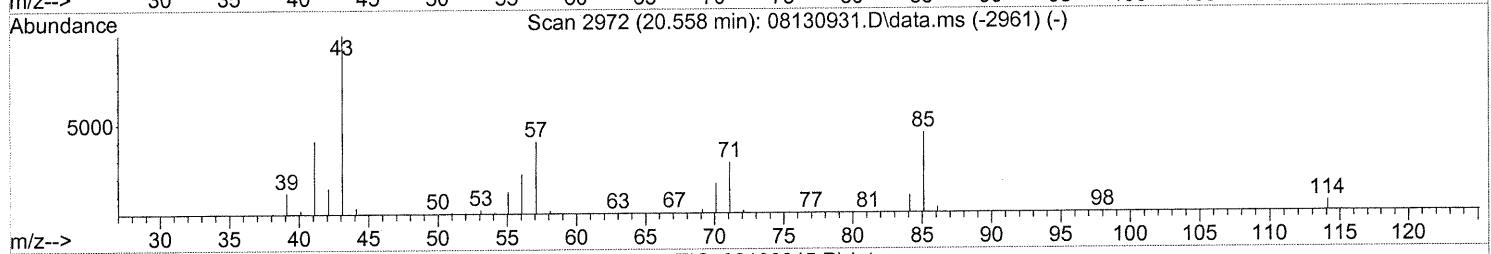
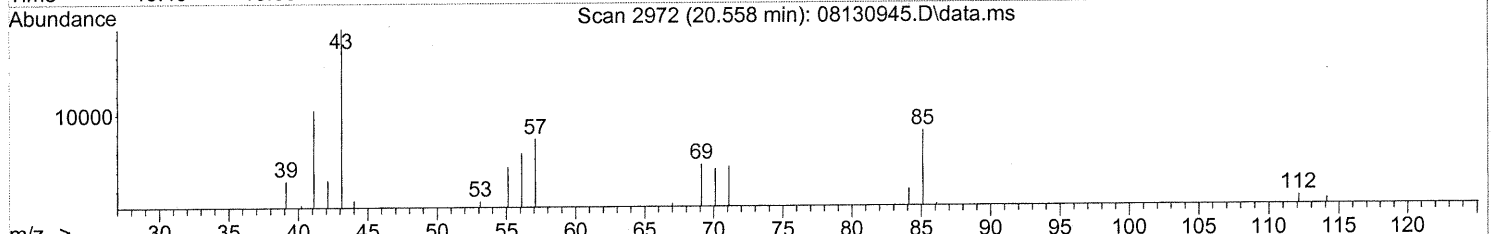
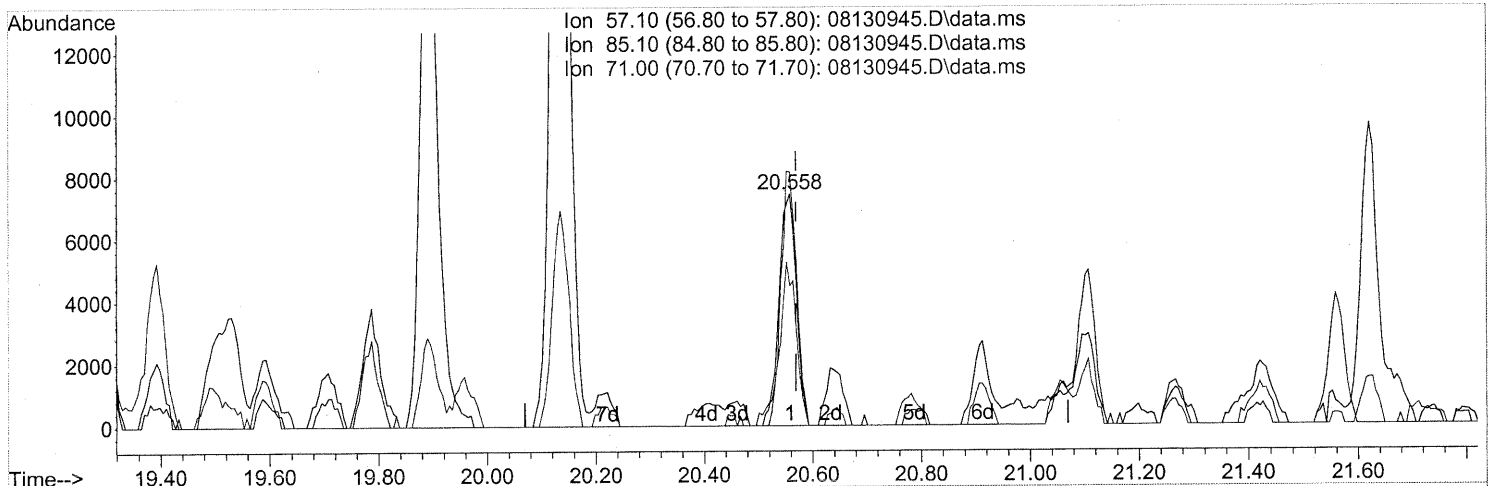
response 2282

Ion	Exp%	Act%
128.90	100	100
126.90	77.60	72.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



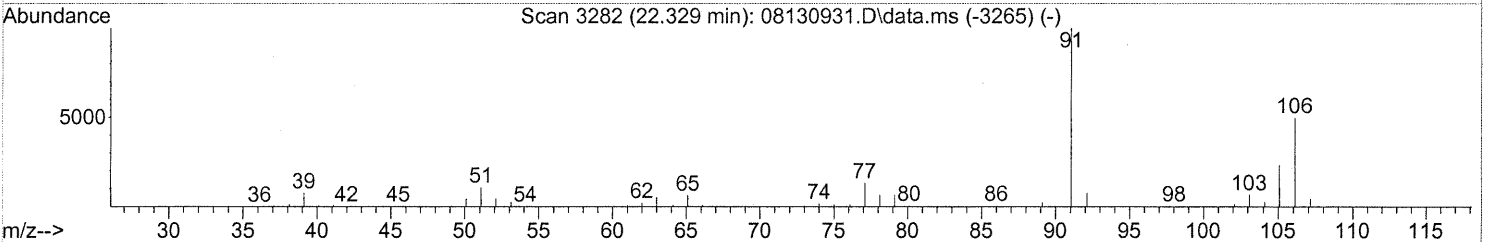
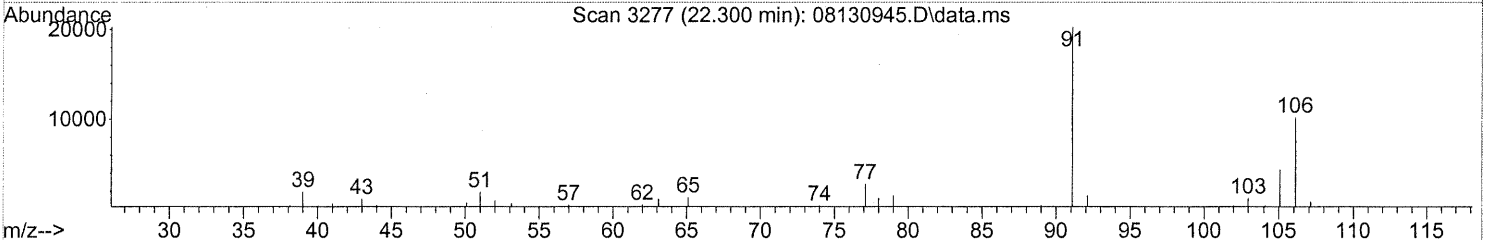
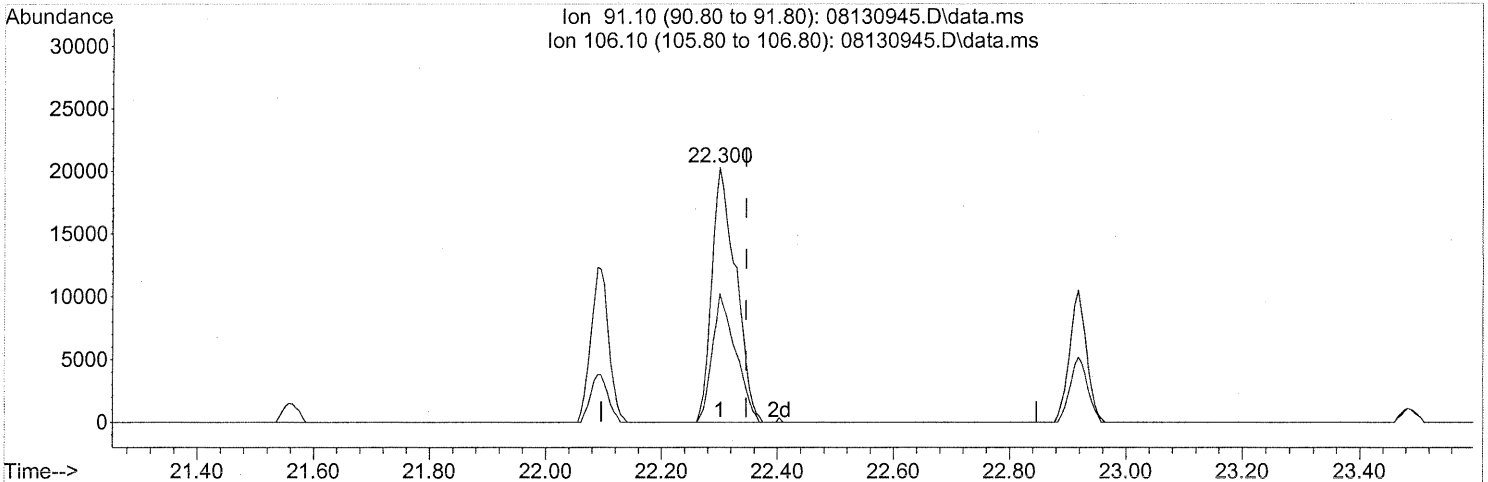
(63) n-Octane (T)
 20.558min (-0.011) 0.75ng
 response 16655

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	98.54
71.00	75.10	69.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

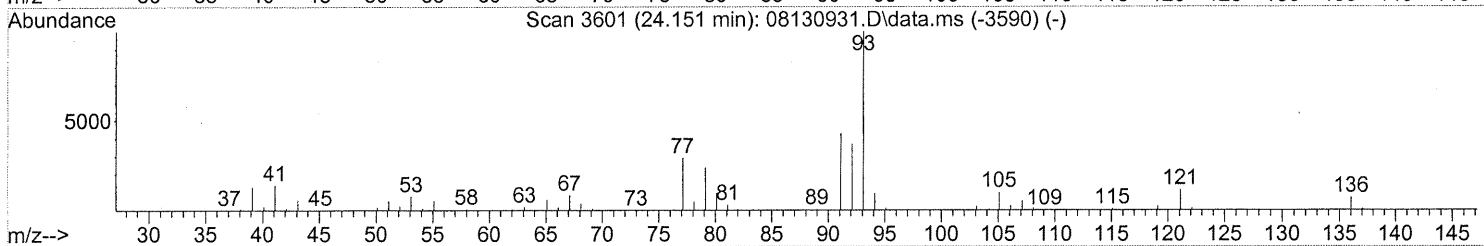
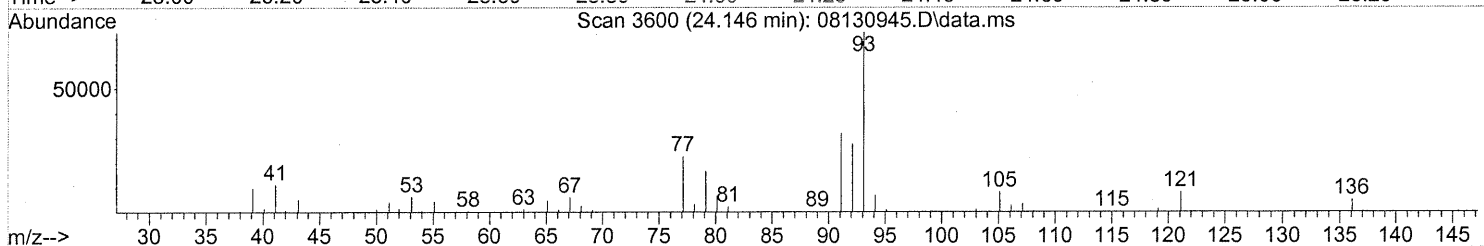
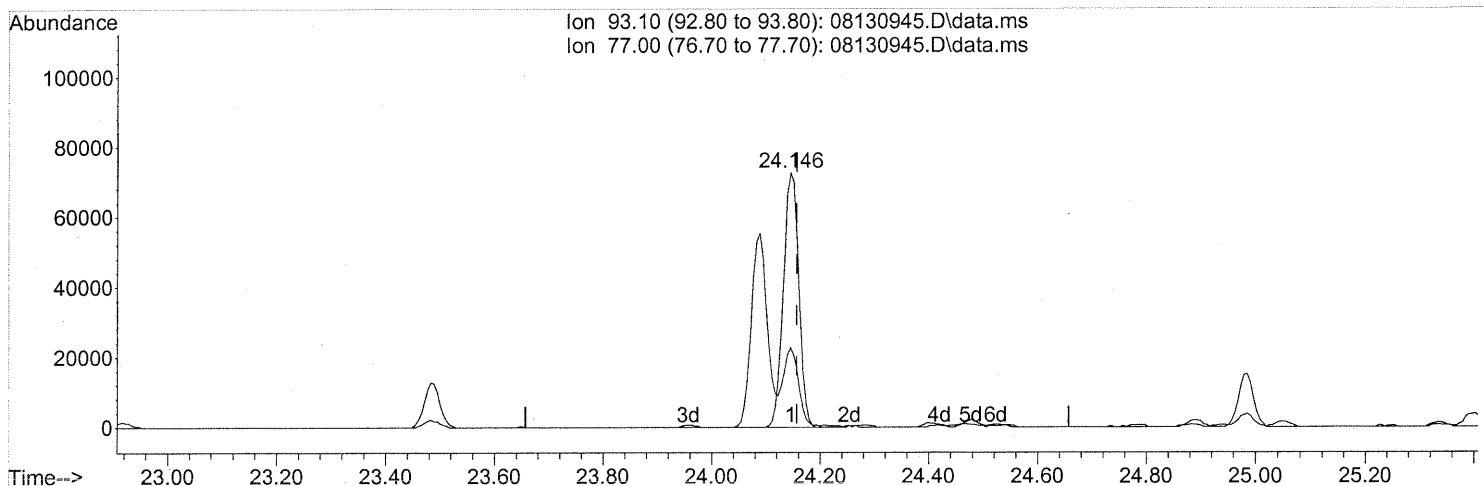
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 0.68ng
 response 58451

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(75) alpha-Pinene (T)

24.146min (-0.011) 2.57ng

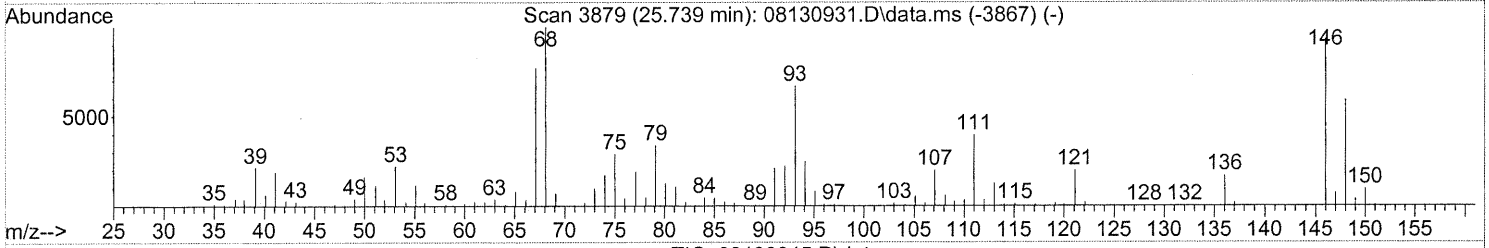
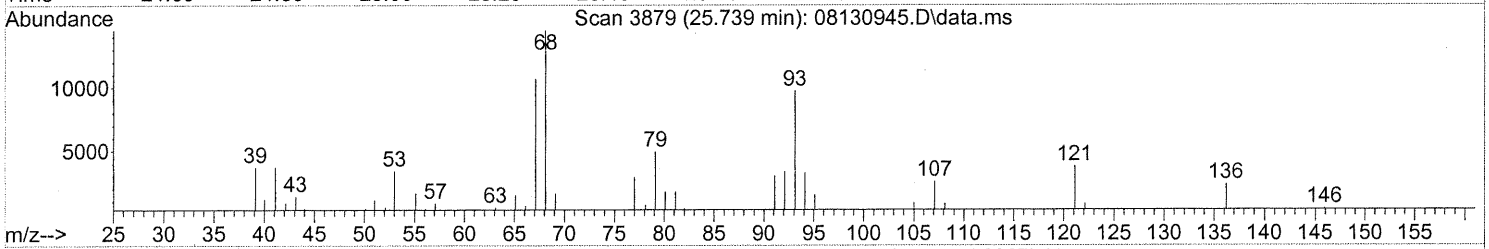
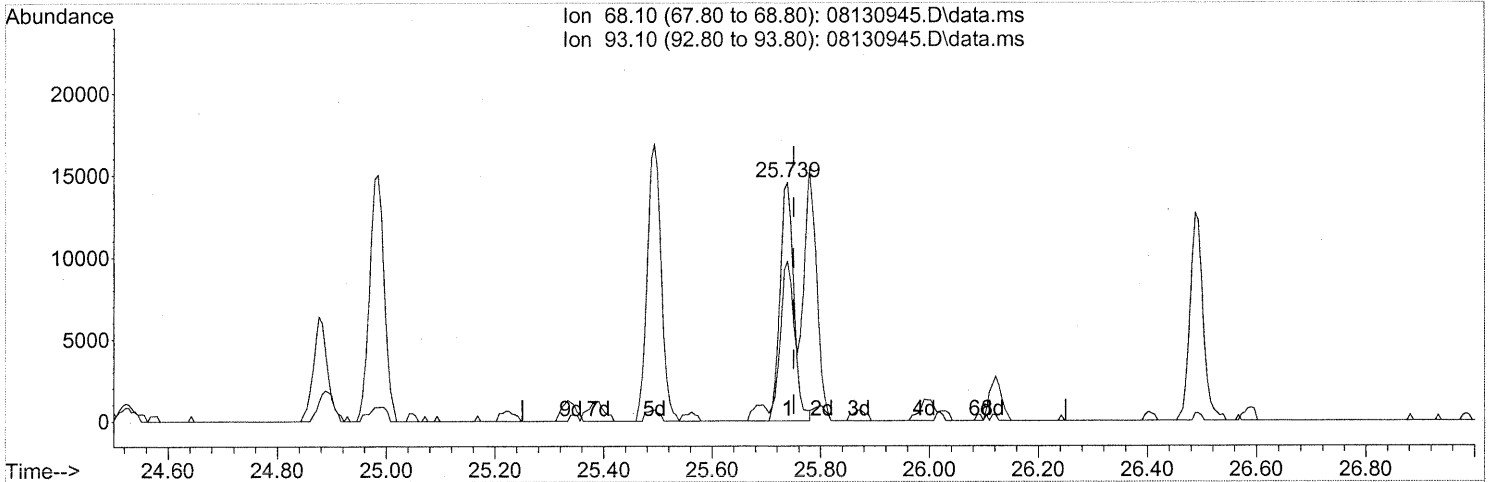
response 141859

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	31.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130945.D
 Acq On : 14 Aug 2009 16:22
 Operator : EM
 Sample : P0902720-002 (1000ml)
 Misc : Environmental H & E 99935
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 17 08:25:34 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130945.D\data.ms

(91) d-Limonene (T)
 25.739min (-0.011) 0.67ng
 response 25353

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	65.92
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, Incorporated

Client Sample ID: 99936

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00955

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 0.20 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	28	3.1	16	1.8	
75-71-8	Dichlorodifluoromethane (CFC 12)	8.7	3.1	1.8	0.62	
74-87-3	Chloromethane	1.7	0.61	0.82	0.30	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	10	3.1	1.4	0.44	
75-01-4	Vinyl Chloride	ND	0.61	ND	0.24	
106-99-0	1,3-Butadiene	ND	0.61	ND	0.28	
74-83-9	Bromomethane	ND	0.61	ND	0.16	
75-00-3	Chloroethane	ND	0.61	ND	0.23	
64-17-5	Ethanol	4,300	31	2,300	16	D
75-05-8	Acetonitrile	210	3.1	130	1.8	
107-02-8	Acrolein	4.9	3.1	2.1	1.3	
67-64-1	Acetone	96	31	41	13	
75-69-4	Trichlorofluoromethane	2.0	0.61	0.35	0.11	
67-63-0	2-Propanol (Isopropyl Alcohol)	120	3.1	50	1.2	
107-13-1	Acrylonitrile	ND	3.1	ND	1.4	
75-35-4	1,1-Dichloroethene	ND	0.61	ND	0.15	
75-09-2	Methylene Chloride	4.1	3.1	1.2	0.88	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.61	ND	0.19	
76-13-1	Trichlorotrifluoroethane	ND	0.61	ND	0.080	
75-15-0	Carbon Disulfide	6.0	3.1	1.9	0.98	
156-60-5	trans-1,2-Dichloroethene	ND	0.61	ND	0.15	
75-34-3	1,1-Dichloroethane	ND	0.61	ND	0.15	
1634-04-4	Methyl tert-Butyl Ether	ND	0.61	ND	0.17	
108-05-4	Vinyl Acetate	ND	31	ND	8.7	
78-93-3	2-Butanone (MEK)	16	3.1	5.4	1.0	

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: _____

8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 99936

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-003

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC00955

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 0.20 Liter(s)

0.050 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5


Canister Dilution Factor: 1.22

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.61	ND	0.15	
141-78-6	Ethyl Acetate	ND	6.1	ND	1.7	
110-54-3	n-Hexane	7.4	3.1	2.1	0.87	
67-66-3	Chloroform	1.3	0.61	0.27	0.12	
109-99-9	Tetrahydrofuran (THF)	3.4	3.1	1.1	1.0	
107-06-2	1,2-Dichloroethane	15	0.61	3.6	0.15	
71-55-6	1,1,1-Trichloroethane	ND	0.61	ND	0.11	
71-43-2	Benzene	10	0.61	3.2	0.19	
56-23-5	Carbon Tetrachloride	ND	0.61	ND	0.097	
110-82-7	Cyclohexane	ND	3.1	ND	0.89	
78-87-5	1,2-Dichloropropane	ND	0.61	ND	0.13	
75-27-4	Bromodichloromethane	ND	0.61	ND	0.091	
79-01-6	Trichloroethene	ND	0.61	ND	0.11	
123-91-1	1,4-Dioxane	ND	3.1	ND	0.85	
80-62-6	Methyl Methacrylate	ND	6.1	ND	1.5	
142-82-5	n-Heptane	11	3.1	2.8	0.74	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	ND	0.67	
108-10-1	4-Methyl-2-pentanone	ND	3.1	ND	0.74	
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	ND	0.67	
79-00-5	1,1,2-Trichloroethane	ND	0.61	ND	0.11	
108-88-3	Toluene	26	3.1	6.8	0.81	
591-78-6	2-Hexanone	ND	3.1	ND	0.74	
124-48-1	Dibromochloromethane	ND	0.61	ND	0.072	
106-93-4	1,2-Dibromoethane	ND	0.61	ND	0.079	
123-86-4	n-Butyl Acetate	ND	3.1	ND	0.64	

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: _____

8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 99936
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-003

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00955

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 0.20 Liter(s)
 0.050 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.22

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	3.1	ND	0.65	
127-18-4	Tetrachloroethene	ND	0.61	ND	0.090	
108-90-7	Chlorobenzene	ND	0.61	ND	0.13	
100-41-4	Ethylbenzene	3.5	3.1	0.81	0.70	
179601-23-1	m,p-Xylenes	10	3.1	2.3	0.70	
75-25-2	Bromoform	ND	3.1	ND	0.30	
100-42-5	Styrene	3.5	3.1	0.82	0.72	
95-47-6	o-Xylene	3.5	3.1	0.80	0.70	
111-84-2	n-Nonane	ND	3.1	ND	0.58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.61	ND	0.089	
98-82-8	Cumene	ND	3.1	ND	0.62	
80-56-8	alpha-Pinene	63	3.1	11	0.55	
103-65-1	n-Propylbenzene	ND	3.1	ND	0.62	
622-96-8	4-Ethyltoluene	ND	3.1	ND	0.62	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	ND	0.62	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	ND	0.62	
100-44-7	Benzyl Chloride	ND	0.61	ND	0.12	
541-73-1	1,3-Dichlorobenzene	ND	0.61	ND	0.10	
106-46-7	1,4-Dichlorobenzene	ND	0.61	ND	0.10	
95-50-1	1,2-Dichlorobenzene	ND	0.61	ND	0.10	
5989-27-5	d-Limonene	18	3.1	3.3	0.55	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	ND	0.32	
120-82-1	1,2,4-Trichlorobenzene	ND	3.1	ND	0.41	
91-20-3	Naphthalene	ND	3.1	ND	0.58	
87-68-3	Hexachlorobutadiene	ND	3.1	ND	0.29	

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

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

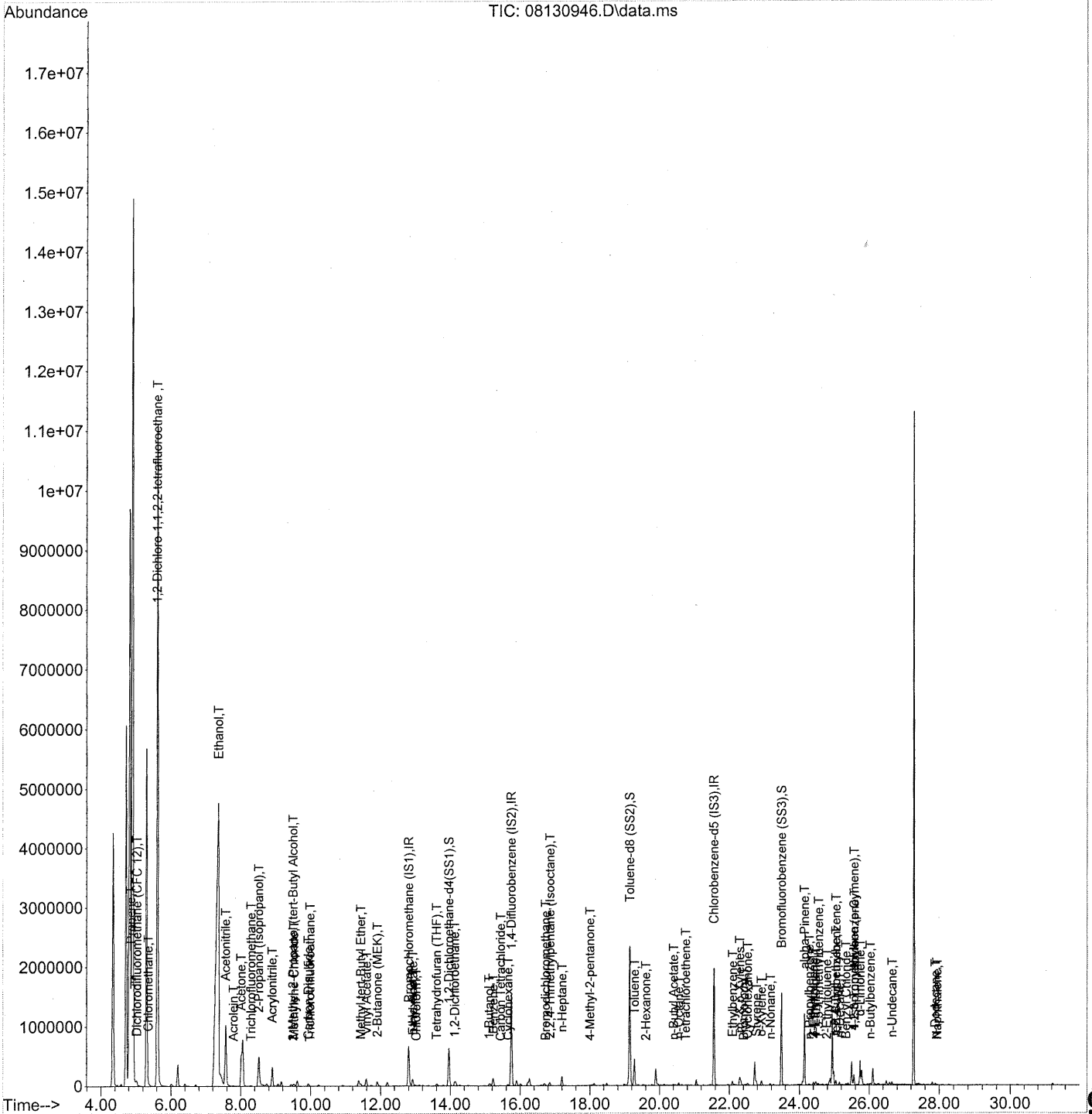
Verified By: _____

Date: 8/24/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:07:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
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Quant Time: Aug 17 14:07:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	354807	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1808072	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	856942	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.96	65	630659	25.138	ng	-0.03 ✓
Spiked Amount				25.000		
					Recovery =	100.56%
57) Toluene-d8 (SS2)	19.15	98	2068707	25.393	ng	-0.01 ✓
Spiked Amount				25.000		
					Recovery =	101.56%
73) Bromofluorobenzene (SS3)	23.49	174	563765	24.436	ng	0.00 ✓
Spiked Amount				25.000		
					Recovery =	97.76%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	142488m	4.578 ng		
3) Dichlorodifluoromethan...	5.03	85	63436	1.428 ng		100
4) Chloromethane	5.35	50	11531	0.278 ng		94
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	38752	1.651 ng		97
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1027	N.D.		
8) Bromomethane	6.59	94	105	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.36	45	15575592	797.792 ng	See Dil.	99
11) Acetonitrile	7.57	41	1662048	34.883 ng		99
12) Acrolein	7.79	56	10250	0.805 ng		98
13) Acetone	8.01	58	314268	15.818 ng	#	52
14) Trichlorofluoromethane	8.29	101	12278	0.323 ng		96
15) 2-Propanol (Isopropanol)	8.52	45	1099776	20.214 ng		94
16) Acrylonitrile	8.90	53	4321	0.150 ng	#	24
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.49	59	34242	0.620 ng	#	67
19) Methylene Chloride	9.52	84	16505	0.666 ng		90
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.98	151	1087	0.064 ng	#	60
22) Carbon Disulfide	9.93	76	86017	0.983 ng		100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.44	73	5405	0.080 ng		91
26) Vinyl Acetate	11.60	86	5347	1.243 ng	#	1
27) 2-Butanone (MEK)	11.90	72	36152	2.610 ng	#	84
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.91	87	144	N.D.		
30) Ethyl Acetate	12.93	61	8095	0.901 ng		95
31) n-Hexane	12.92	57	53276	1.217 ng		94

96

Em 8/17/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:07:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	7845	0.214 ng		97
34) Tetrahydrofuran (THF)	13.61	72	7948	0.552 ng	#	13
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	67294	2.400 ng		98
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	15.23	61	388	N.D.		
40) 1-Butanol	15.11	56	37281	1.591 ng		96
41) Benzene	15.23	78	163270	1.679 ng		98
42) Carbon Tetrachloride	15.45	117	2522	0.093 ng		98
43) Cyclohexane	15.66	84	10992	0.292 ng	#	83
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.73	83	2167	0.076 ng	#	18
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.86	57	54843	0.490 ng		89
50) Methyl Methacrylate	0.00	100	0	N.D. d		
51) n-Heptane	17.20	71	47986	1.854 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.00	58	4947	0.235 ng		75
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	19.28	91	415956	4.212 ng		100
59) 2-Hexanone	19.60	43	5933	0.116 ng	#	68
60) Dibromochloromethane	19.82	129	220	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	19128	0.342 ng		85
63) n-Octane	20.56	57	8211	0.373 ng		84
64) Tetrachloroethene	20.75	166	1268	0.052 ng		98
65) Chlorobenzene	21.66	112	366	N.D.		
66) Ethylbenzene	22.09	91	61496	0.577 ng		99
67) m- & p-Xylenes	22.30	91	138099	1.634 ng		98
68) Bromoform	22.41	173	2966	0.162 ng		99
69) Styrene	22.77	104	35772	0.573 ng		96
70) o-Xylene	22.92	91	48211	0.567 ng		99
71) n-Nonane	23.17	43	11719	0.229 ng		85
72) 1,1,2,2-Tetrachloroethane	22.97	83	219	N.D.		
74) Cumene	23.66	105	3404	N.D.		
75) alpha-Pinene	24.15	93	562530	10.341 ng		98
76) n-Propylbenzene	24.28	91	12153	0.089 ng		94
77) 3-Ethyltoluene	24.40	105	32399	0.314 ng		97
78) 4-Ethyltoluene	24.46	105	16719	0.161 ng		93
79) 1,3,5-Trimethylbenzene	24.55	105	12460	0.145 ng		96

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:07:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

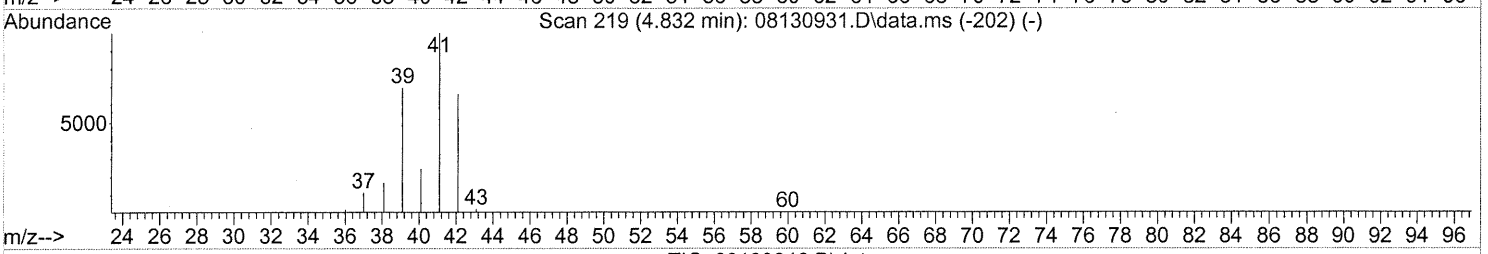
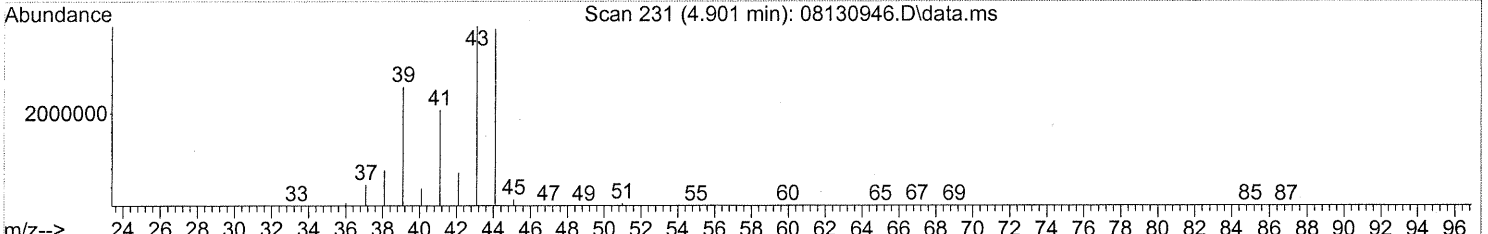
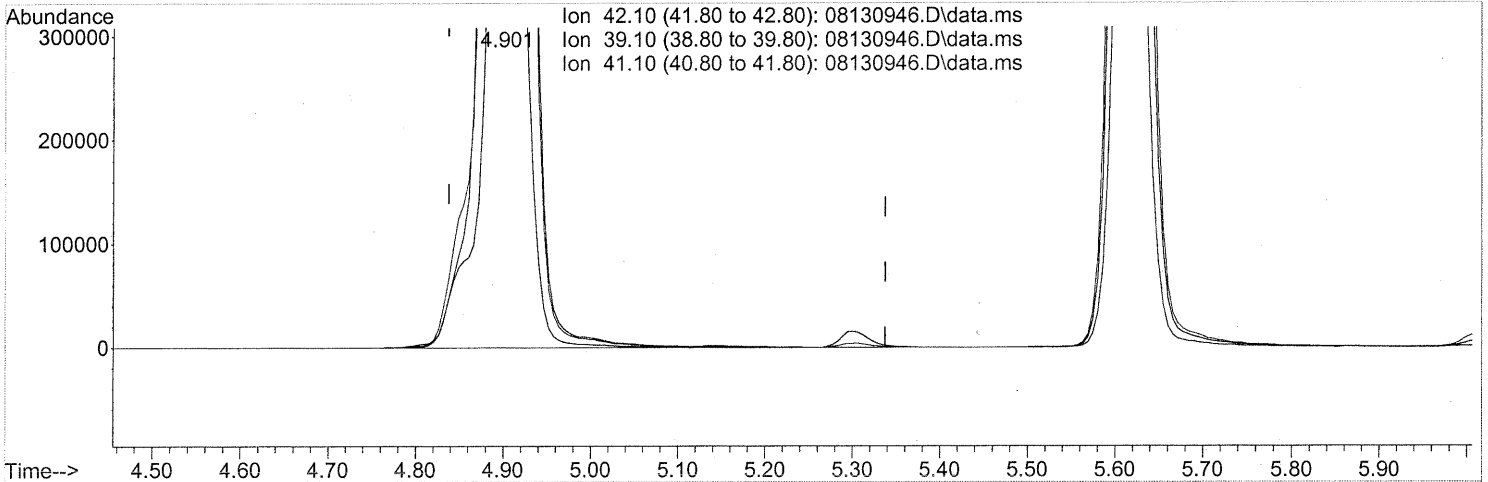
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	216	N.D.		
81) 2-Ethyltoluene	24.79	105	13374	0.125 ng		98
82) 1,2,4-Trimethylbenzene	25.05	105	41519	0.455 ng		88
83) n-Decane	25.15	57	19459	0.367 ng		95
84) Benzyl Chloride	25.33	91	6806	0.097 ng	#	55
85) 1,3-Dichlorobenzene	25.32	146	118	N.D.		
86) 1,4-Dichlorobenzene	25.32	146	118	N.D.		
87) sec-Butylbenzene	25.37	105	1597	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	93990	0.817 ng		96
89) 1,2,3-Trimethylbenzene	25.57	105	15382	0.167 ng	#	41
90) 1,2-Dichlorobenzene	25.32	146	118	N.D.		
91) d-Limonene	25.74	68	111669	2.994 ng		93
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	15645	0.285 ng		77
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	10736	0.088 ng		98
96) n-Dodecane	27.89	57	11646	0.190 ng		85
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	19148	0.616 ng		95
99) tert-Butylbenzene	25.05	119	5215	0.058 ng	#	54
100) n-Butylbenzene	26.03	91	8156	0.085 ng	#	37

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(2) Propene (T)

4.901min (+0.063) 67.91ng

response 2113629

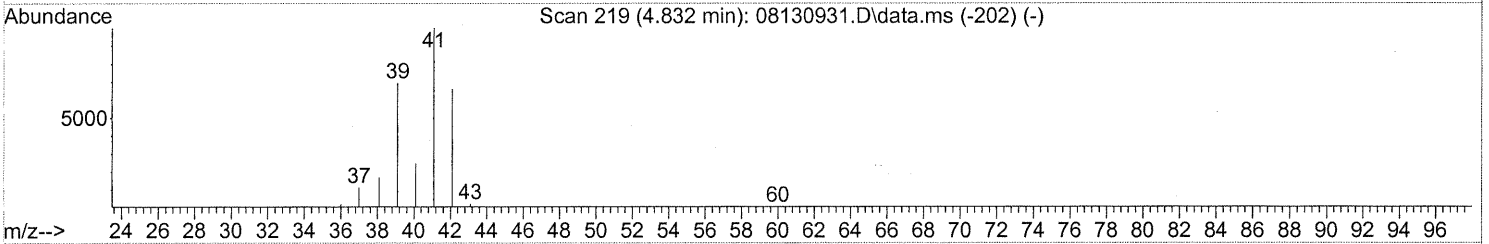
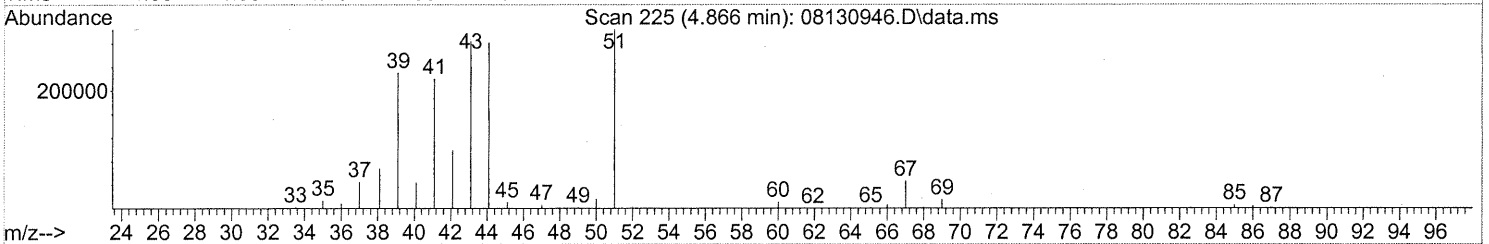
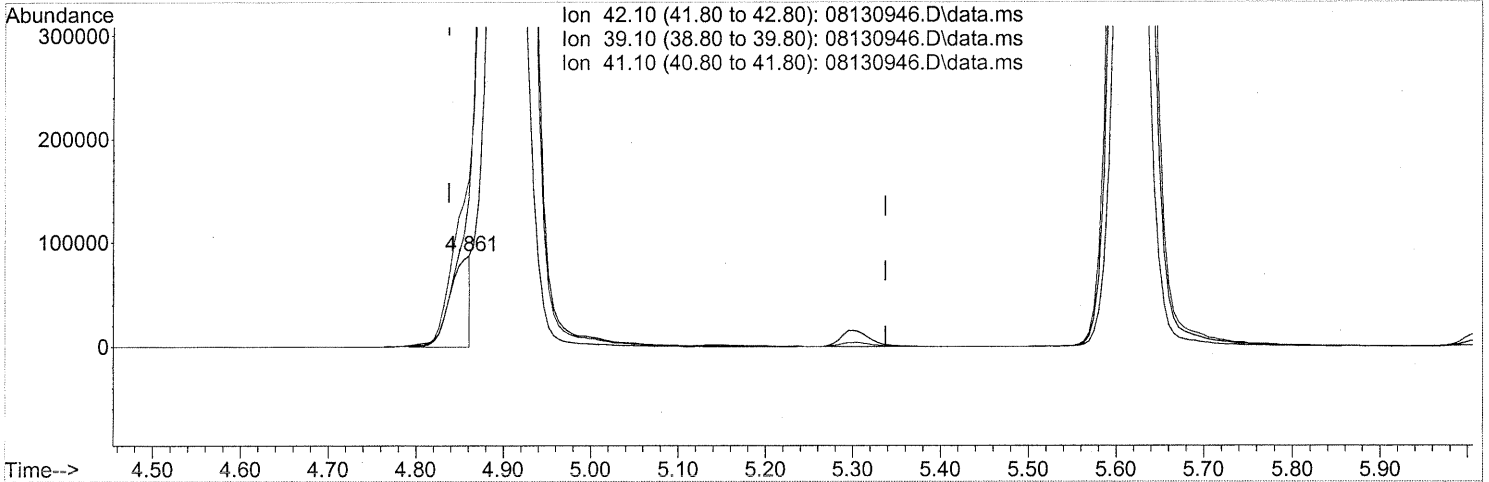
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	334.04#
41.10	152.70	281.09#
0.00	0.00	0.00

SH

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(2) Propene (T)

4.861min (+0.023) 4.58ng m

response 142488

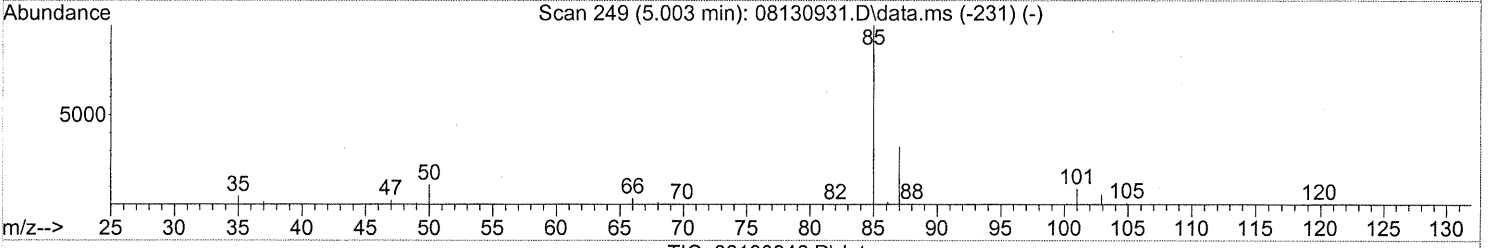
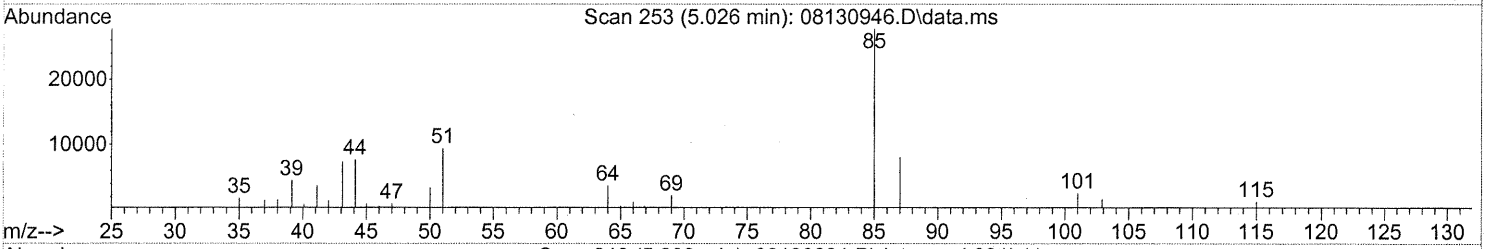
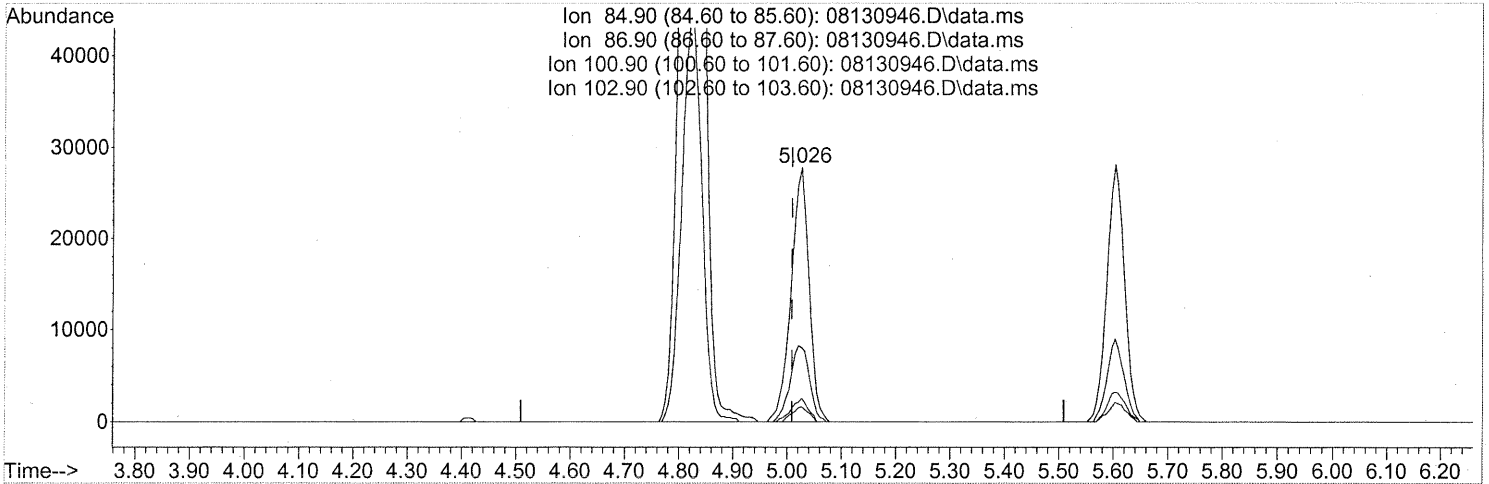
Ion	Exp%	Act%
42.10	100	100
39.10	115.80	4955.04#
41.10	152.70	4169.61#
0.00	0.00	0.00

8H → LC
 em 8/17/09
 11/8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
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TIC: 08130946.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.026min (+0.017) 1.43ng

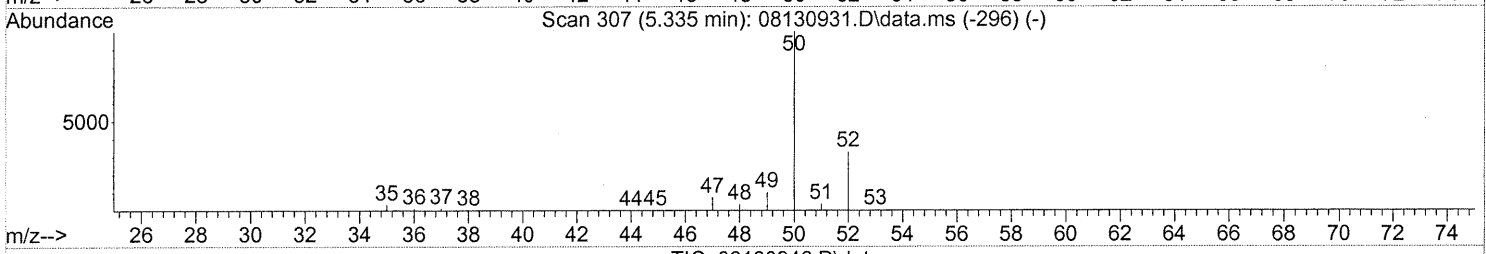
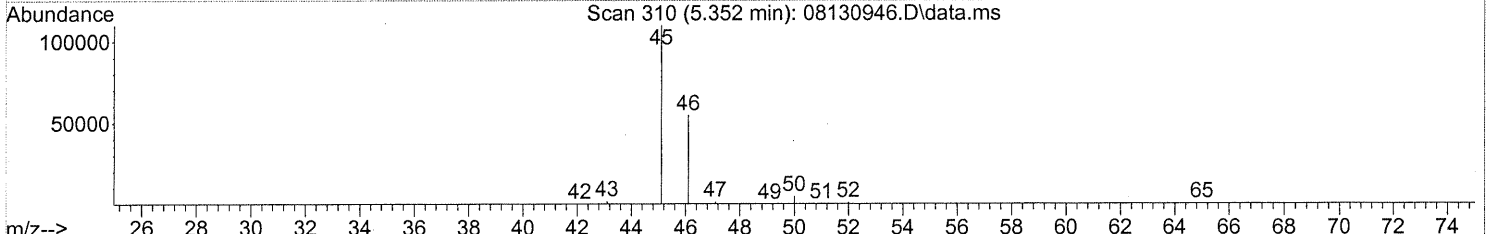
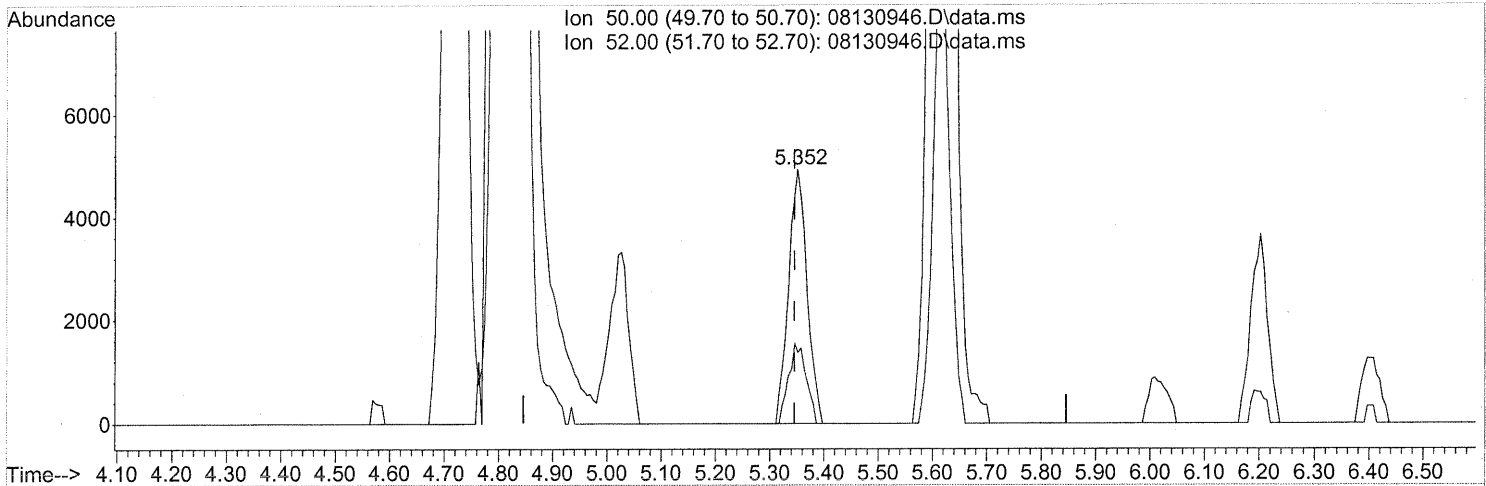
response 63436

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.01
100.90	9.10	8.40
102.90	5.50	5.23

Quantitation Report (Qedit)

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 Quant Method : J:\MS09\Methods\R9081309.M
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 Response via : Initial Calibration



(4) Chloromethane (T)
 5.352min (+0.006) 0.28ng
 response 11531

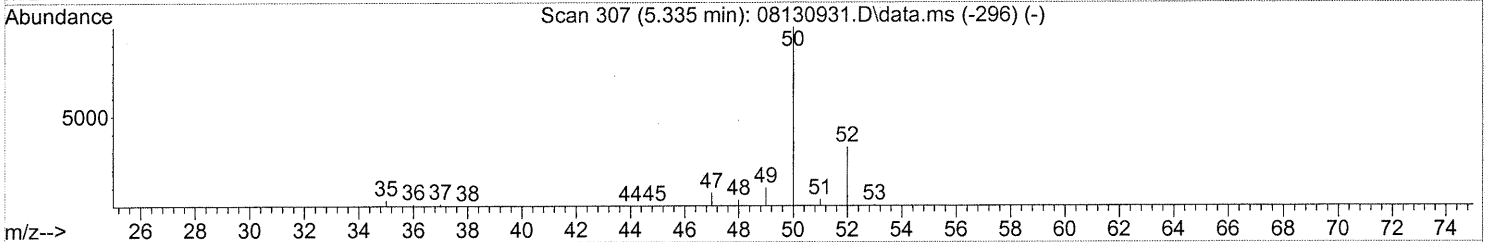
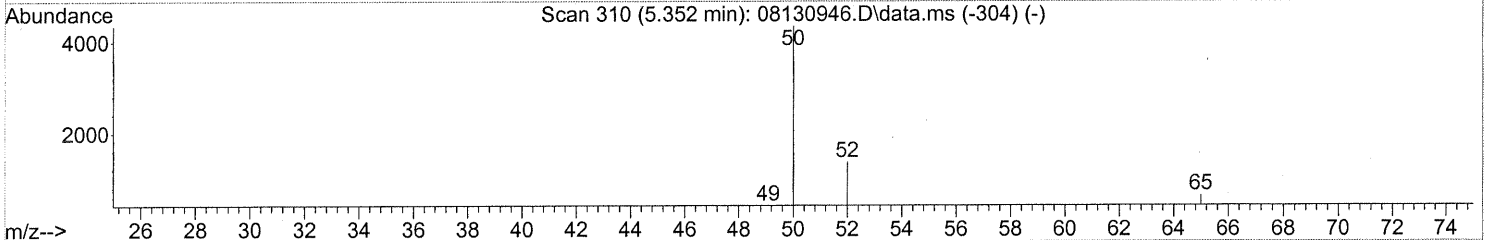
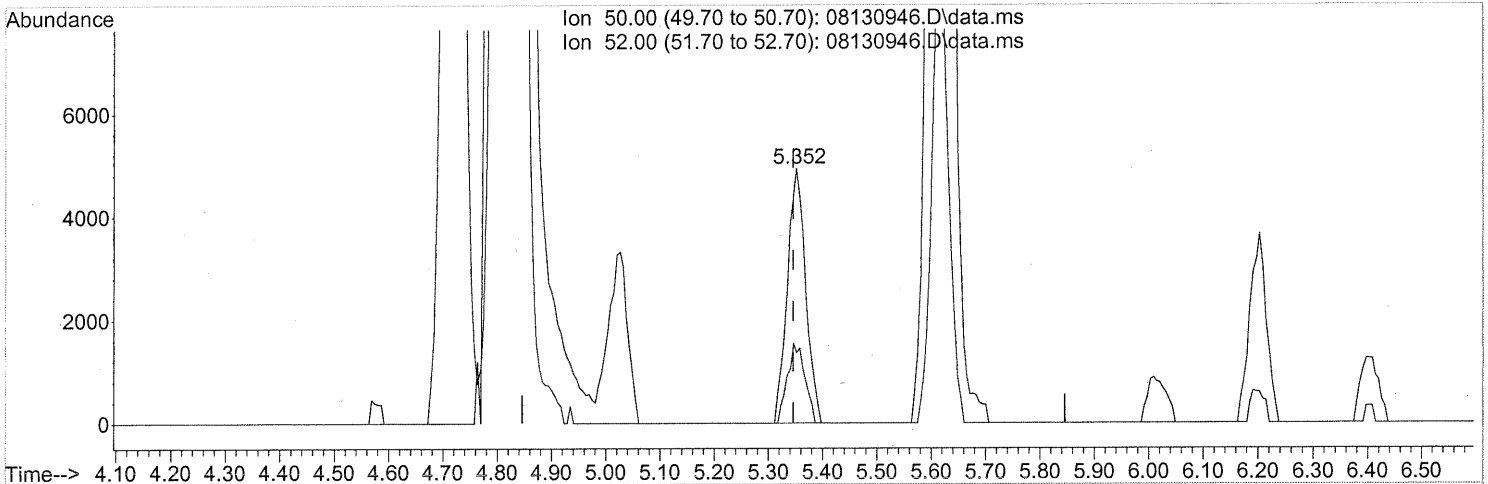
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.81
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(4) Chloromethane (T)
 5.352min (+0.006) 0.28ng
 response 11531

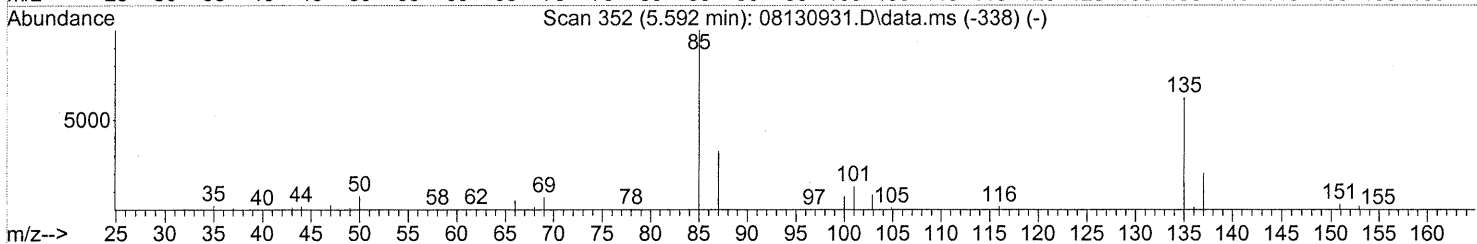
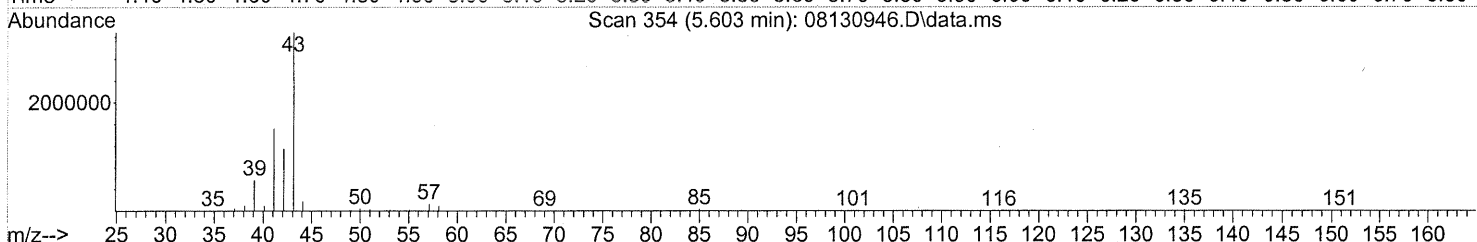
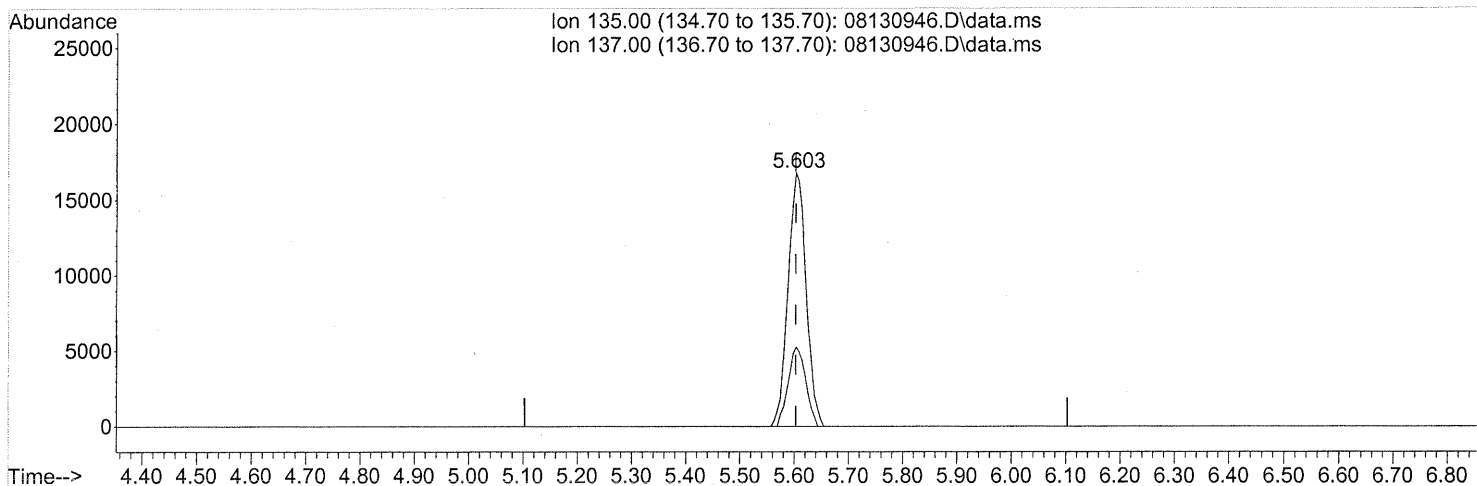
Ion	Exp%	Act%
50.00	100	100
52.00	33.20	29.81
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 8/17/09
11/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(5) 1,2-Dichloro-1,1,2,2-tetrafluoroethane (T)

5.603min (+0.000) 1.65ng

response 38752

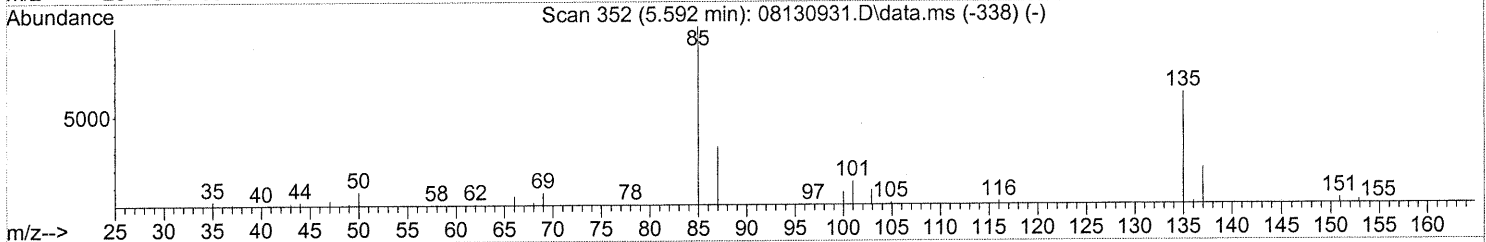
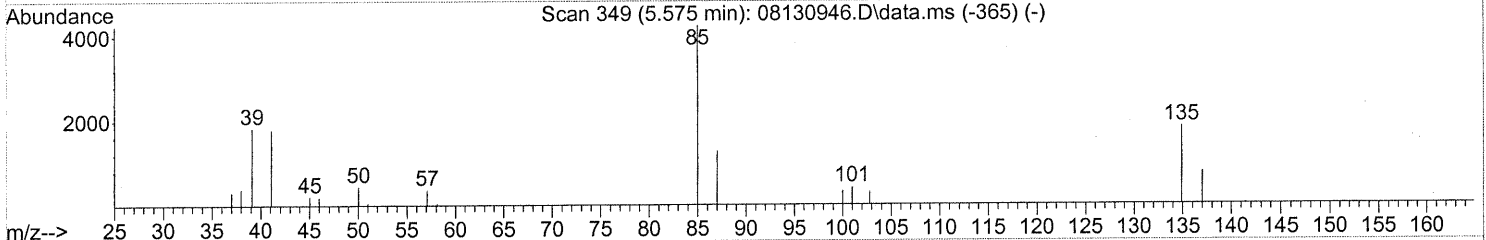
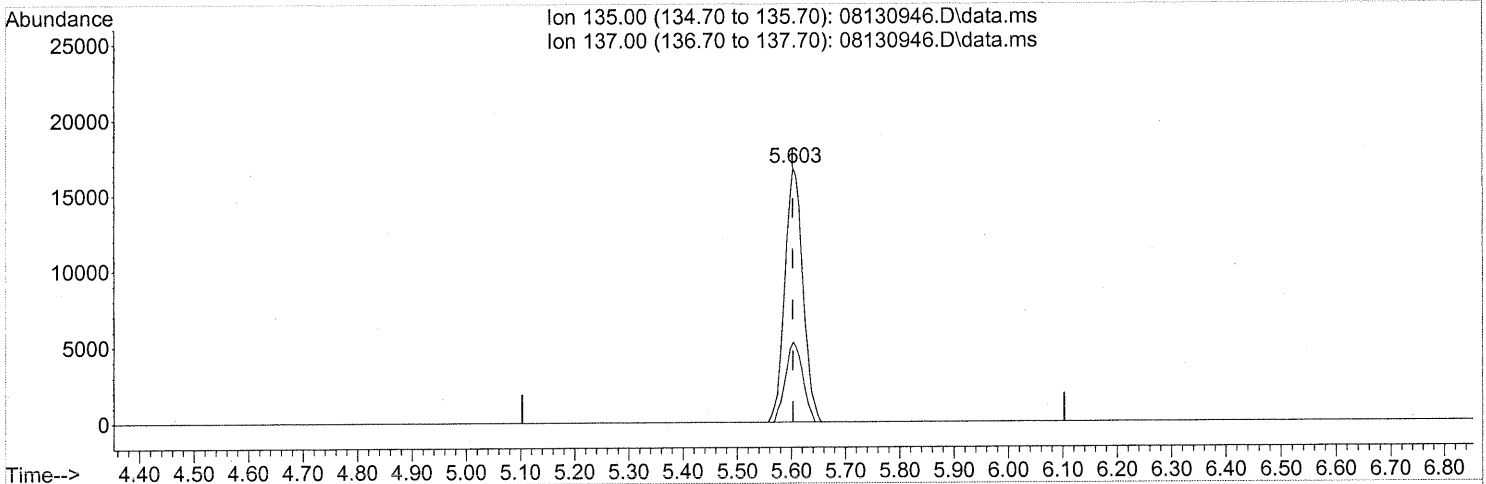
Ion	Exp%	Act%
135.00	100	100
137.00	31.90	30.11
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction
em 8/17/09
11/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(5) 1,2-Dichloro-1,1,2,2-tetrafluoroethane (T)

5.603min (+0.000) 1.65ng

response 38752

Ion	Exp%	Act%
135.00	100	100
137.00	31.90	30.11
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction

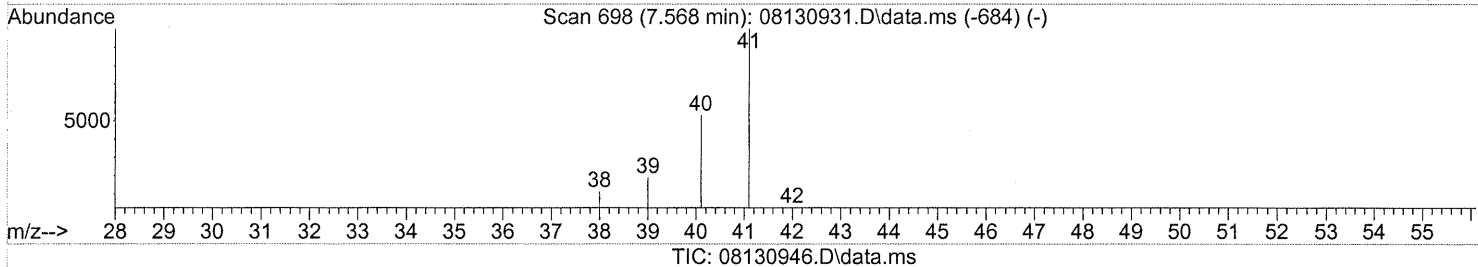
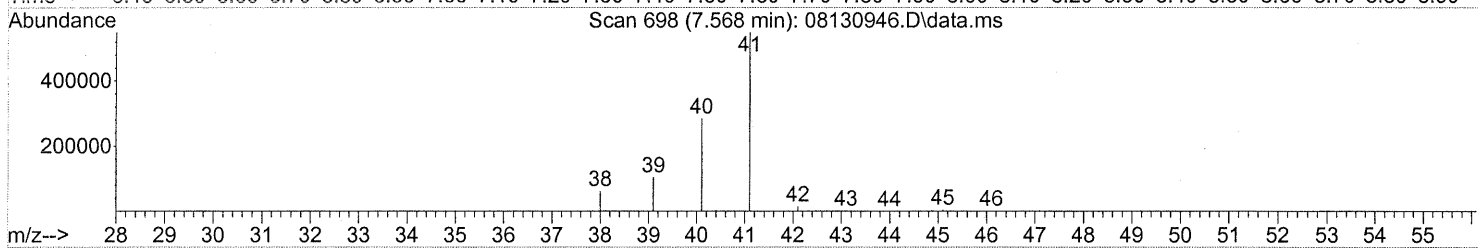
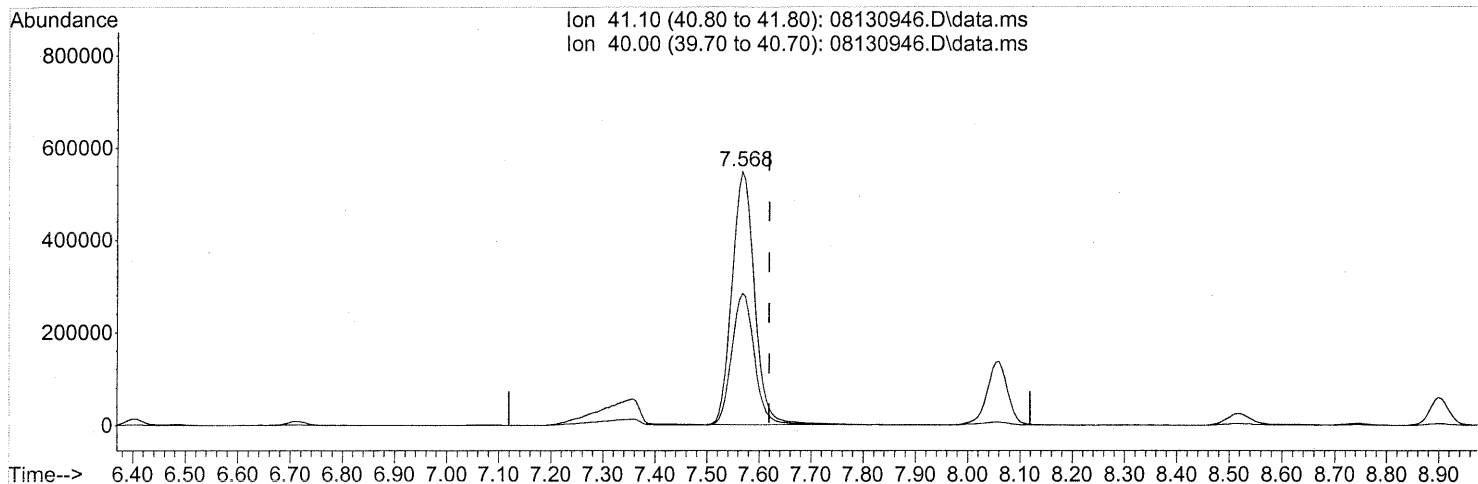
Em 8/17/09

11/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



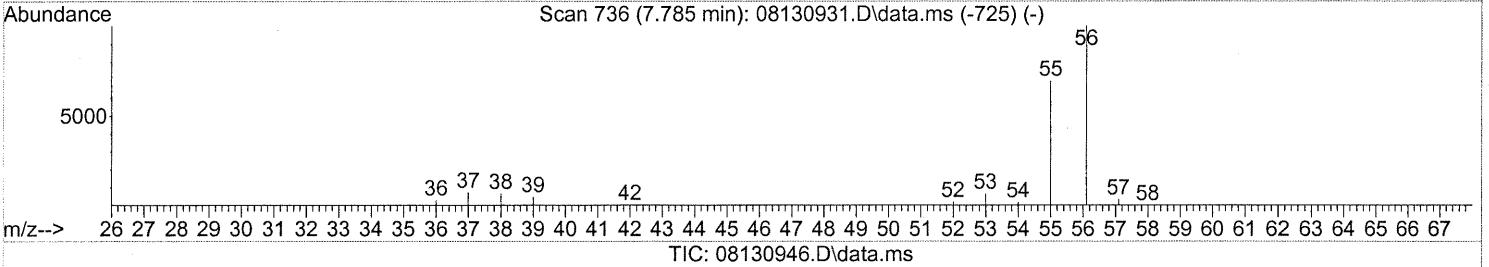
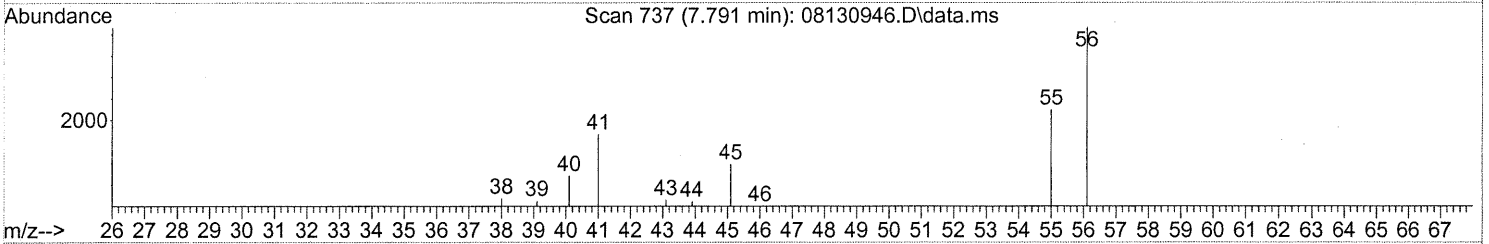
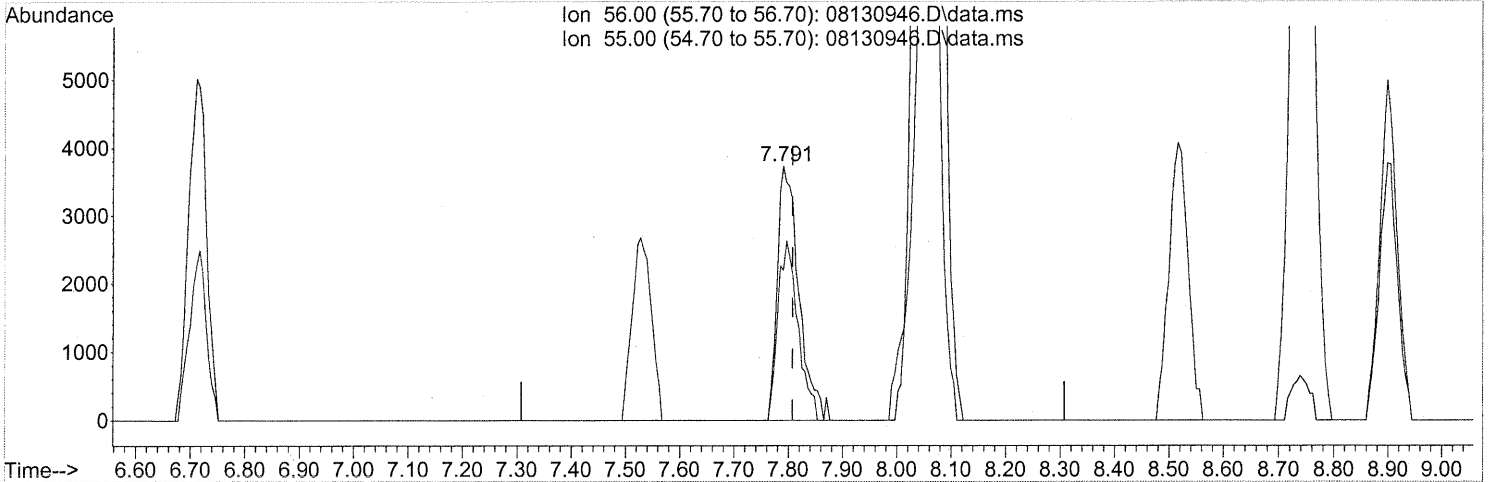
(11) Acetonitrile (T)
 7.568min (-0.051) 34.88ng
 response 1662048

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



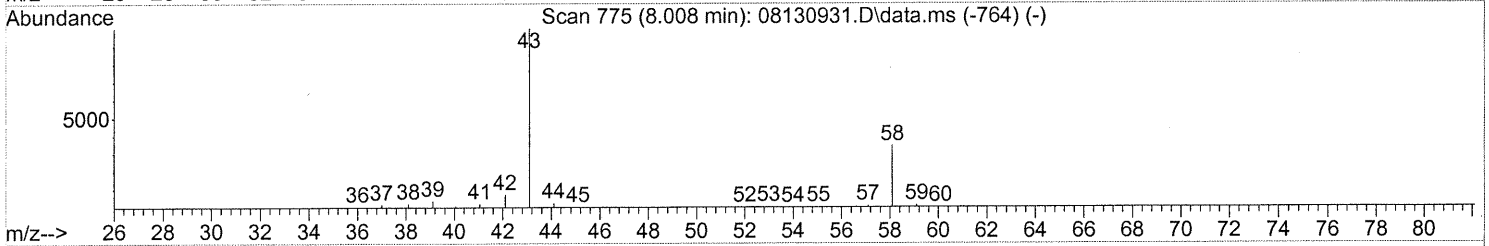
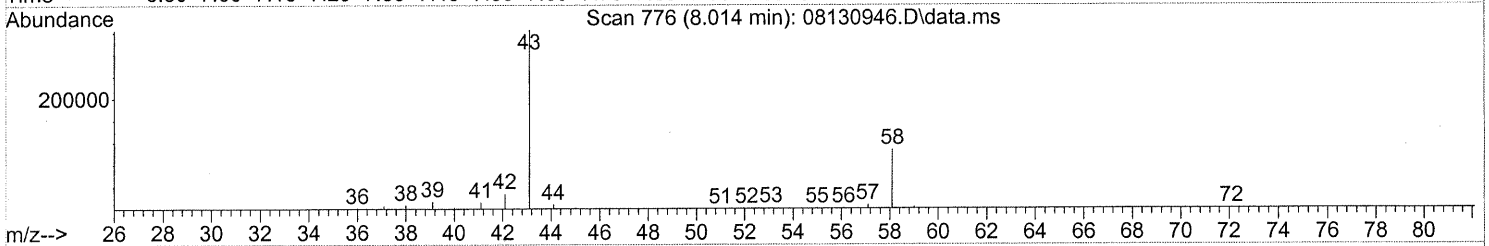
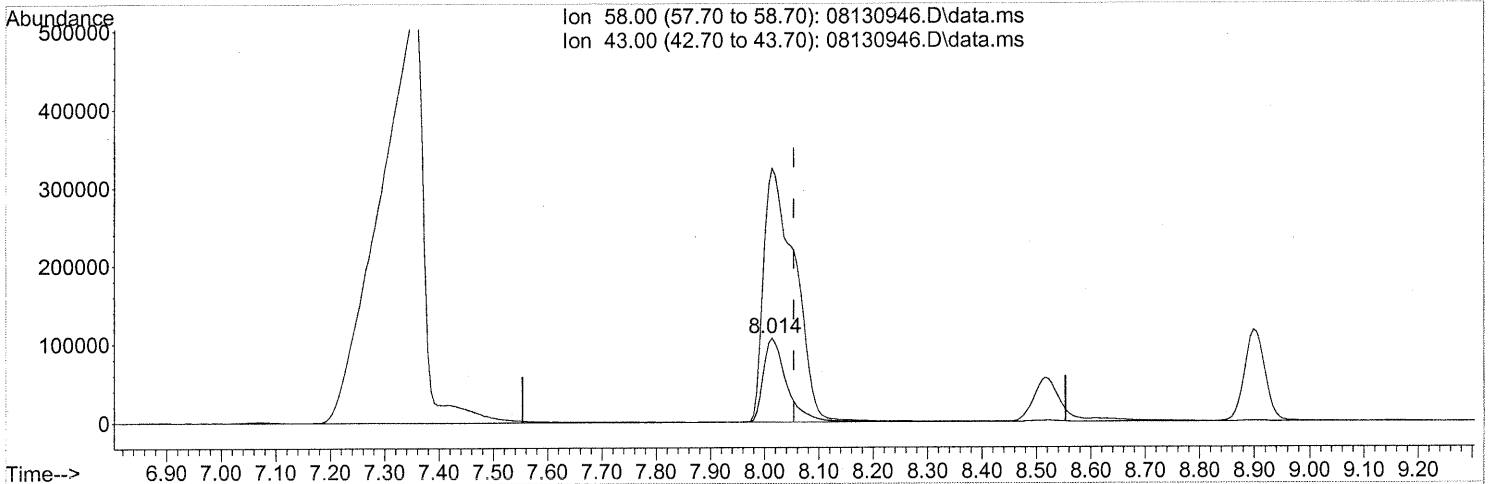
(12) Acrolein (T)
 7.791min (-0.017) 0.81ng
 response 10250

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	65.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone (T)

8.014min (-0.040) 15.82ng

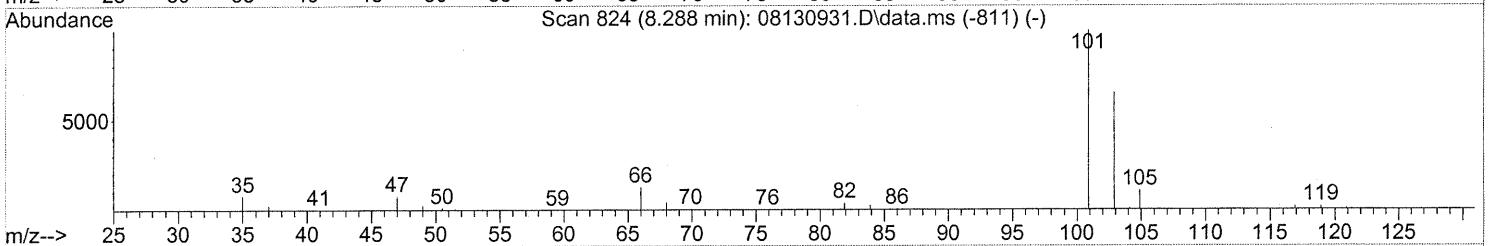
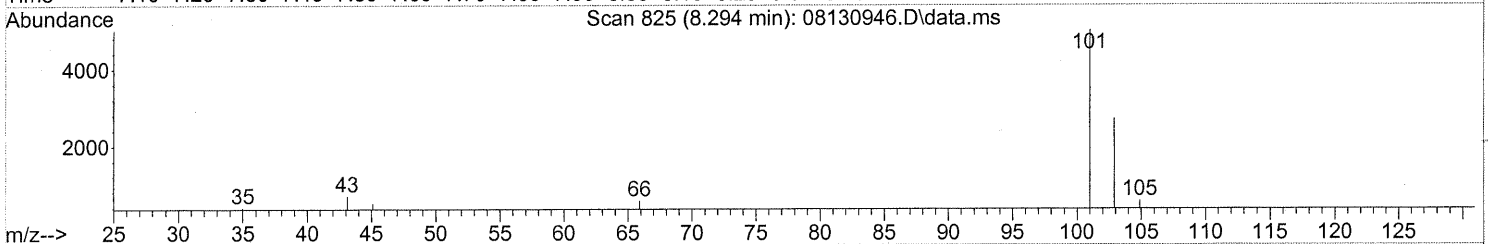
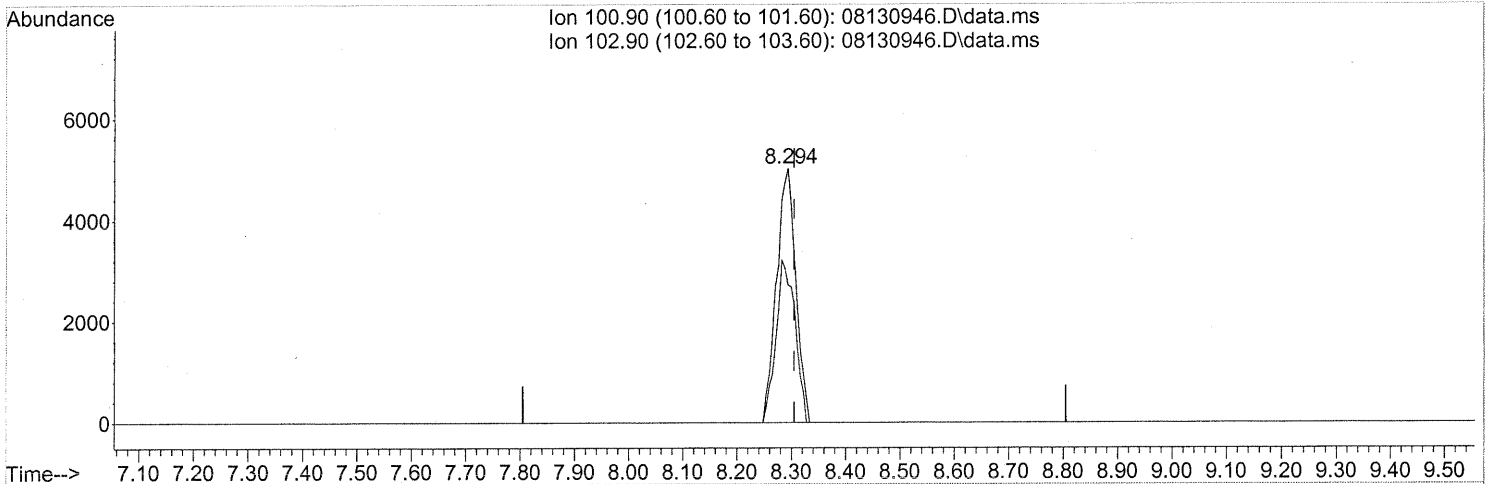
response 314268

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	415.21#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(14) Trichlorofluoromethane (T)

8.294min (-0.011) 0.32ng

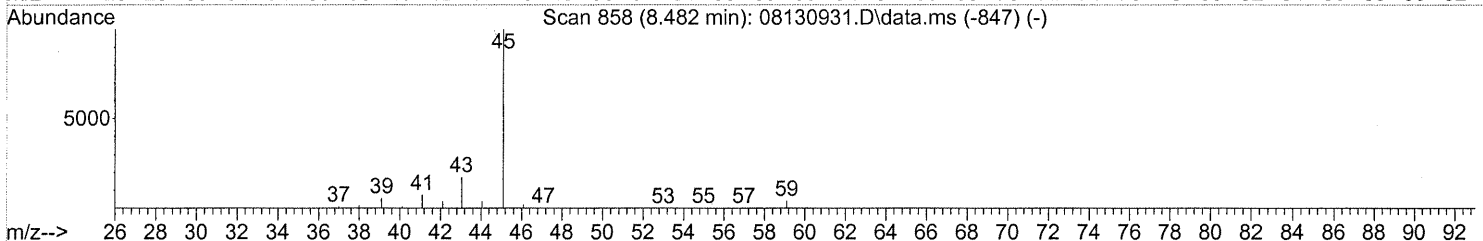
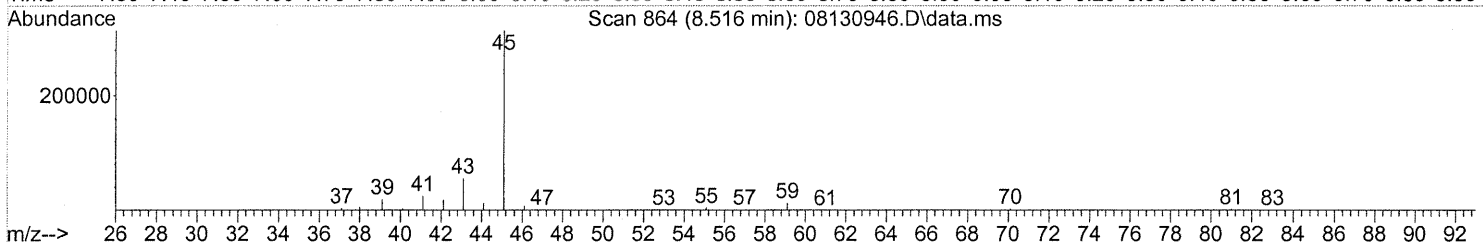
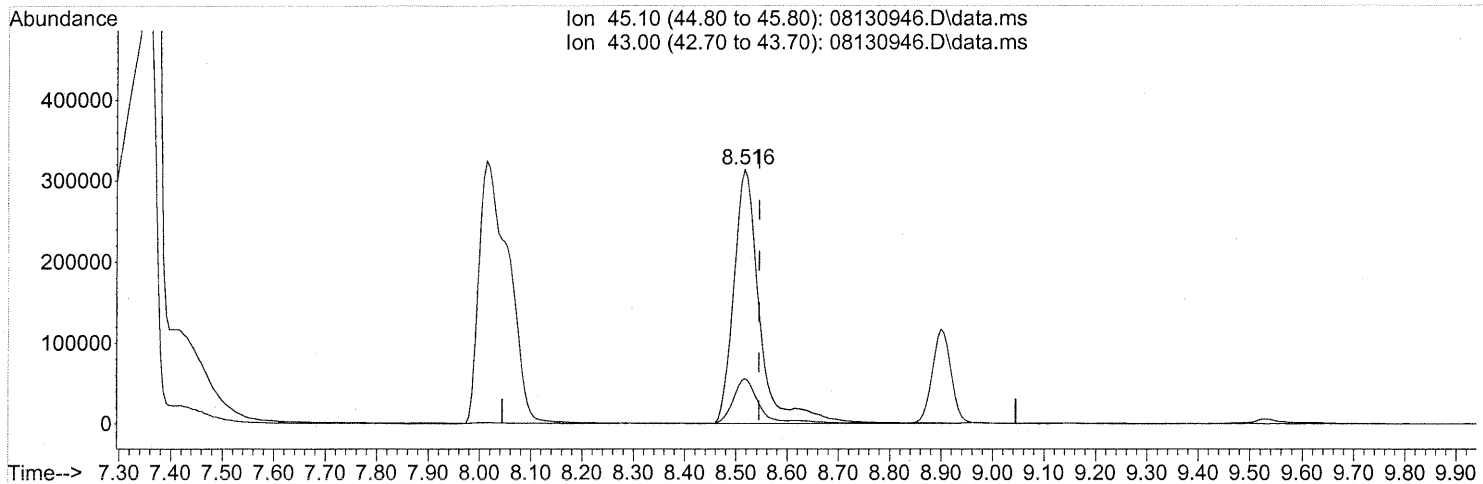
response 12278

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130946.D\data.ms

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

8.516min (-0.029) 20.21ng

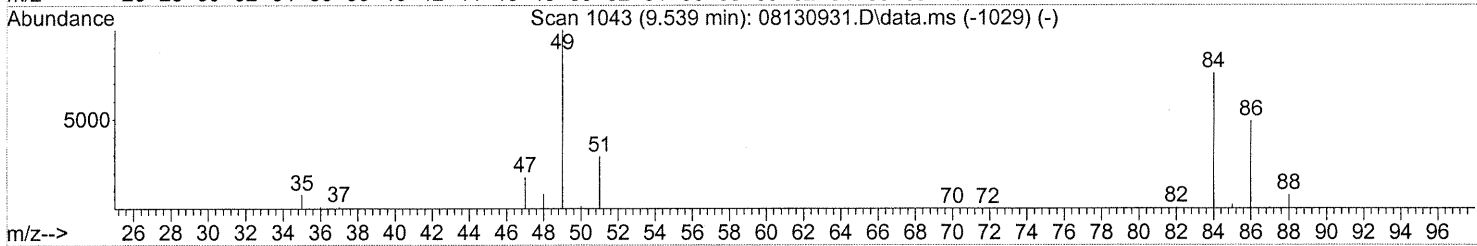
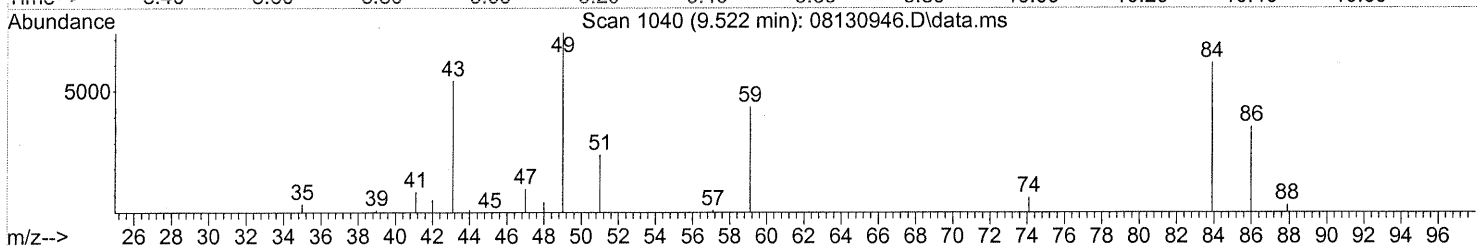
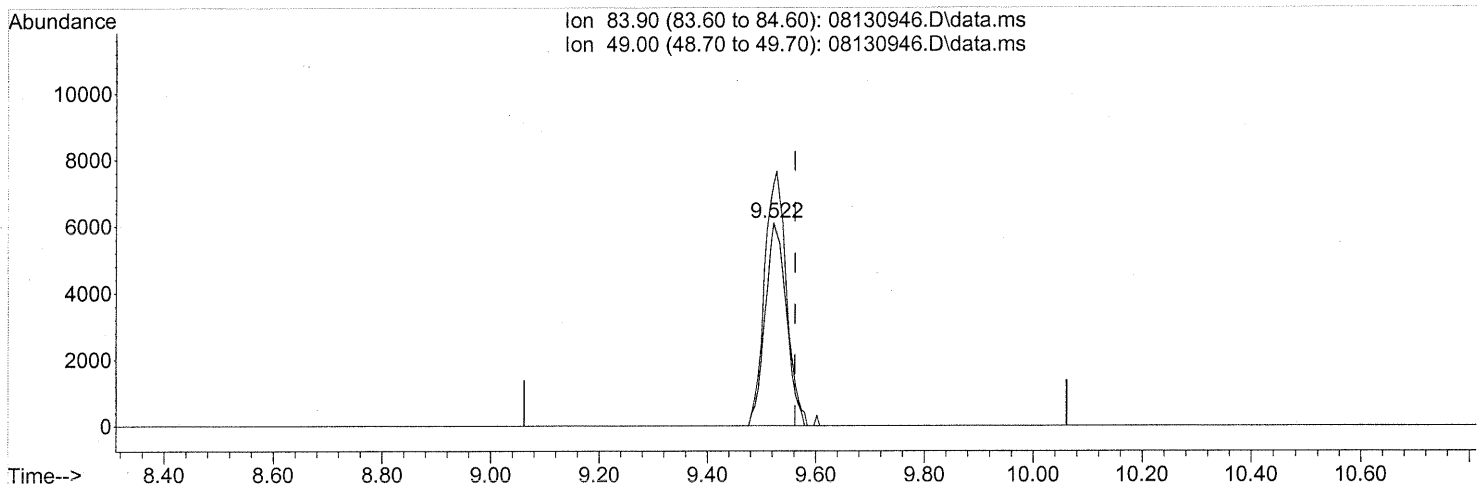
response 1099776

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(19) Methylene Chloride (T)

9.522min (-0.040) 0.67ng

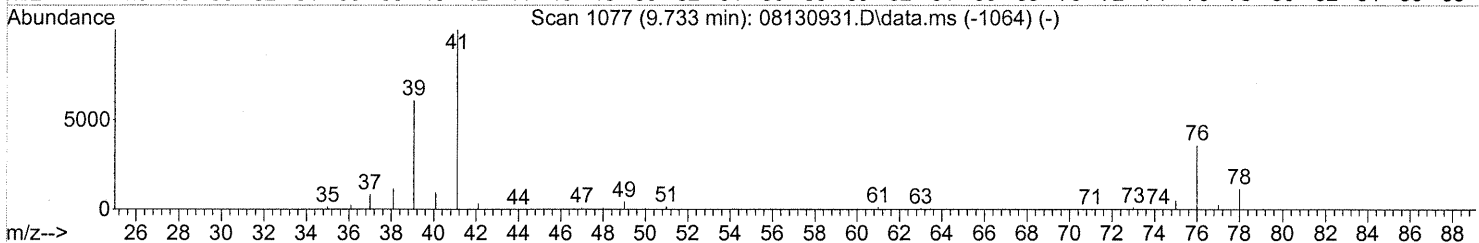
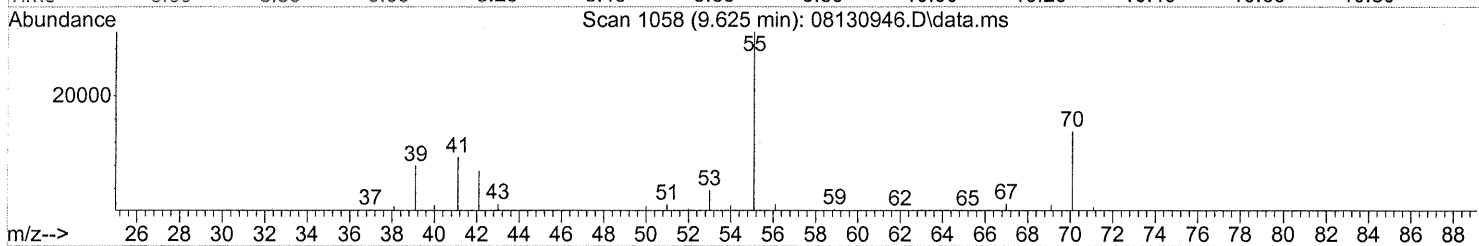
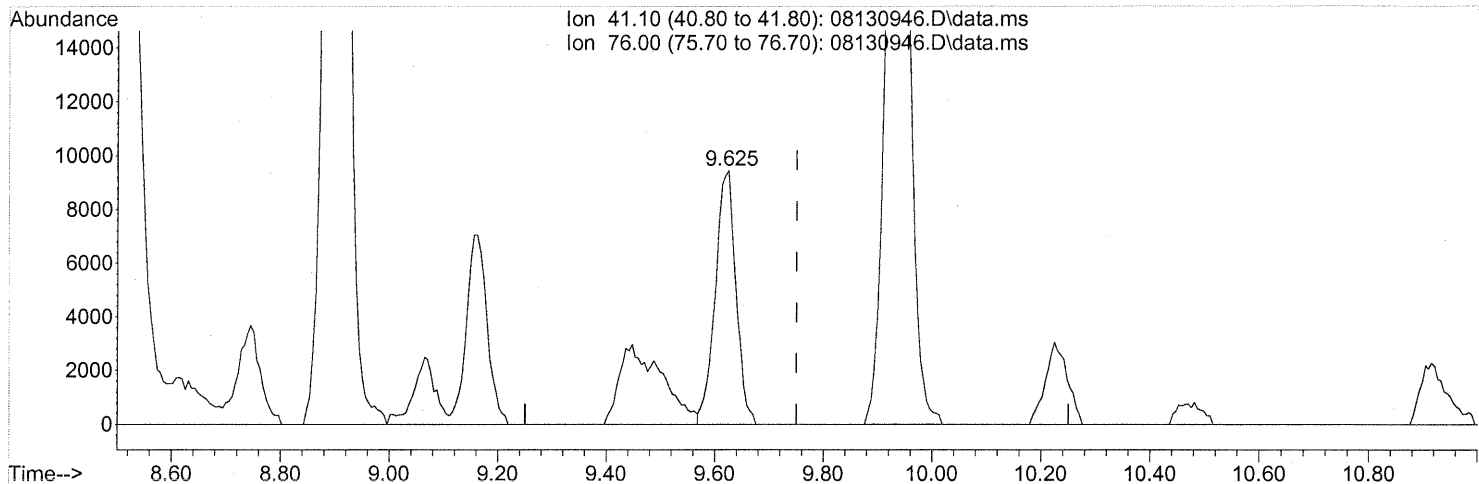
response 16505

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	129.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(20) 3-Chloro-1-propene (Allyl Chloride) (T)

9.625min (-0.126) 0.75ng

response 24927

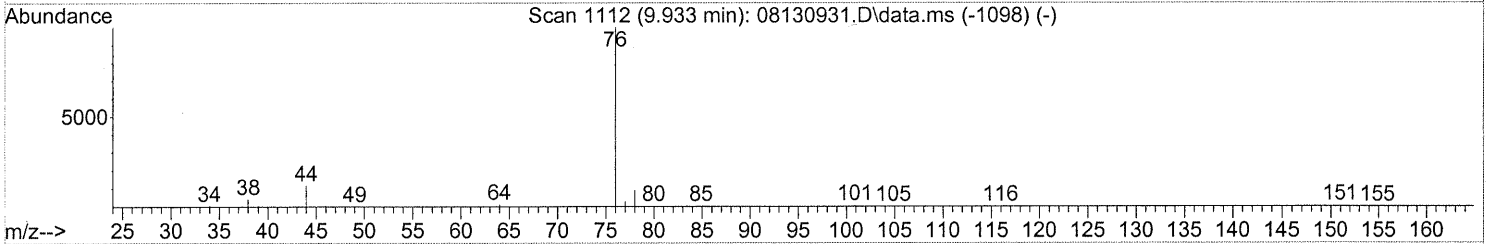
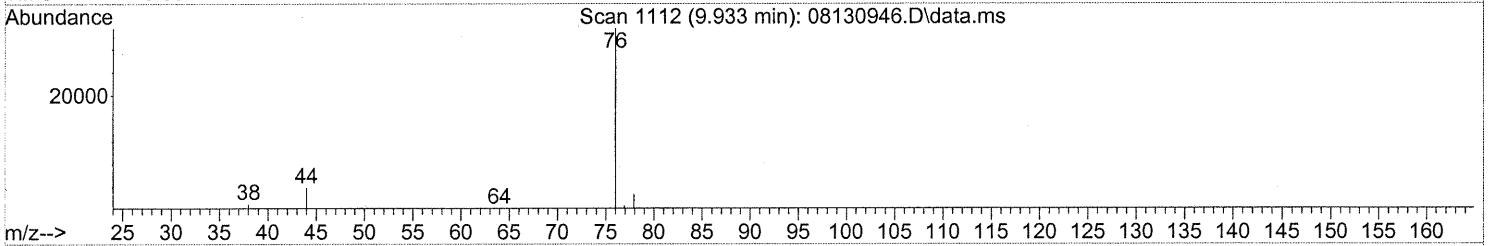
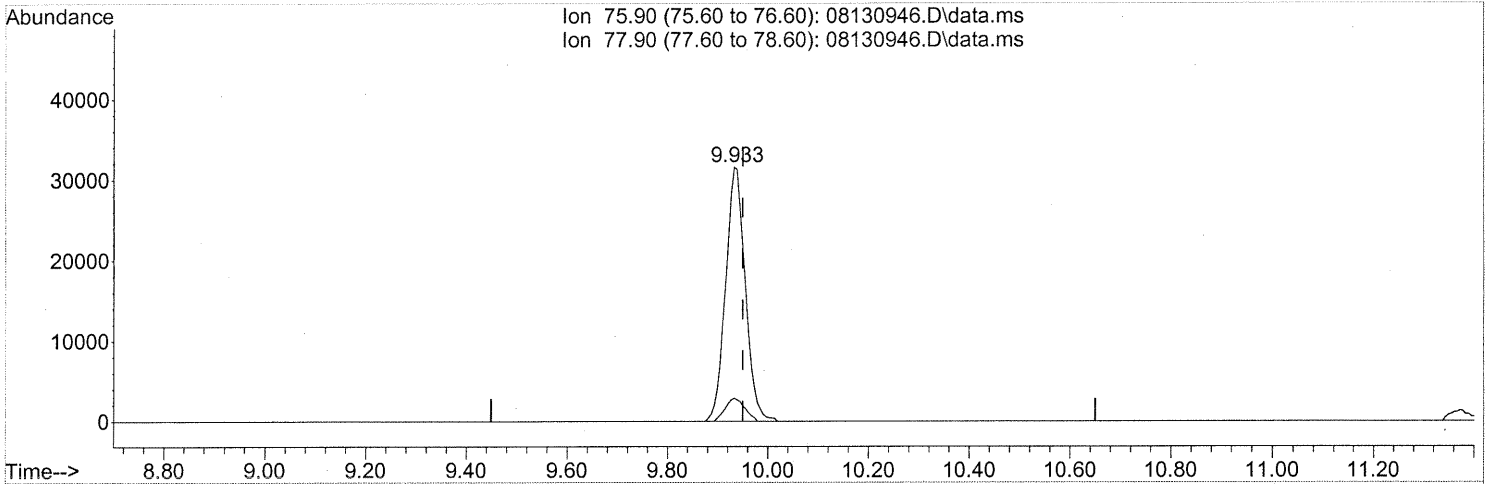
Ion	Exp%	Act%
41.10	100	100
76.00	41.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/17/09
ur 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.933min (-0.017) 0.98ng

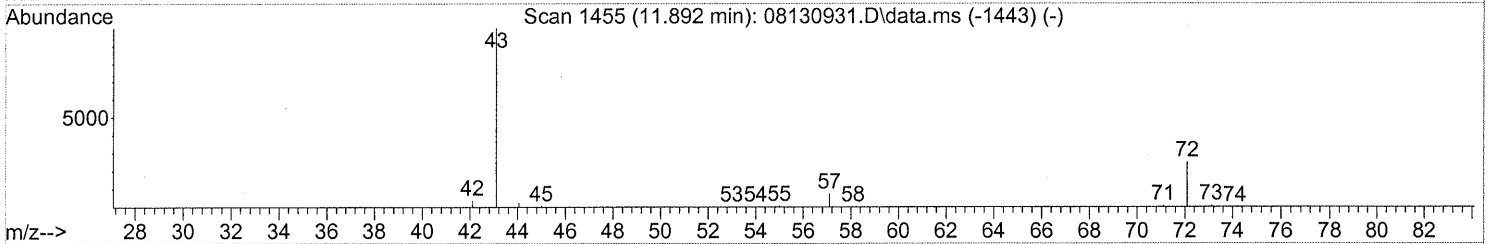
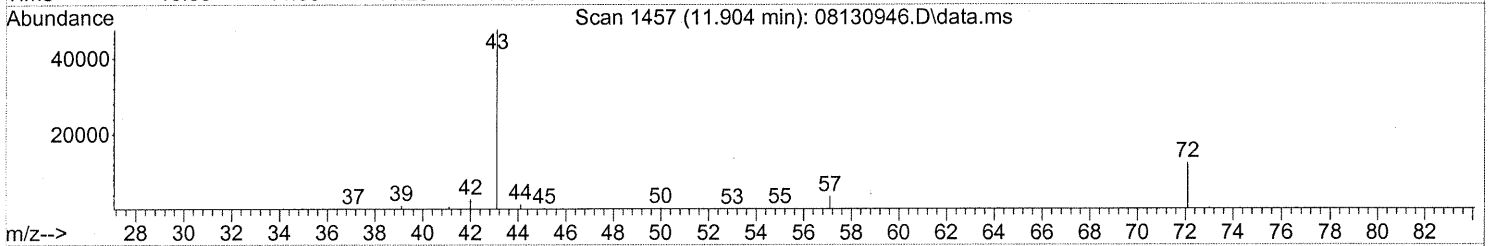
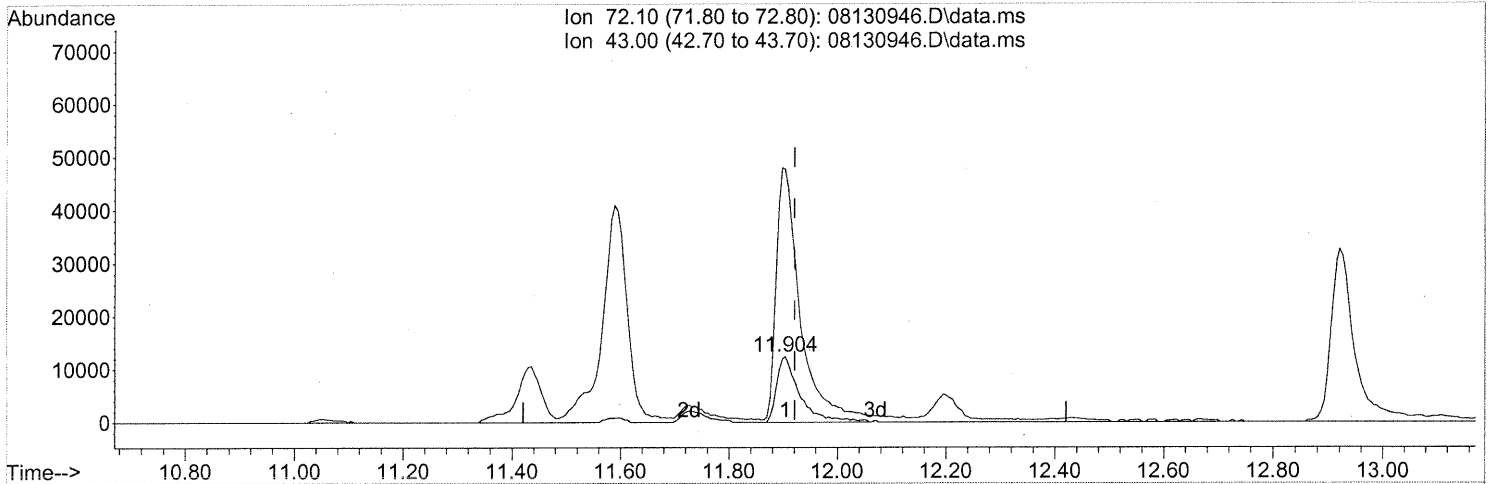
response 86017

Ion	Exp%	Act%
75.90	100	100
77.90	9.00	8.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130946.D\data.ms

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

11.904min (-0.017) 2.61ng

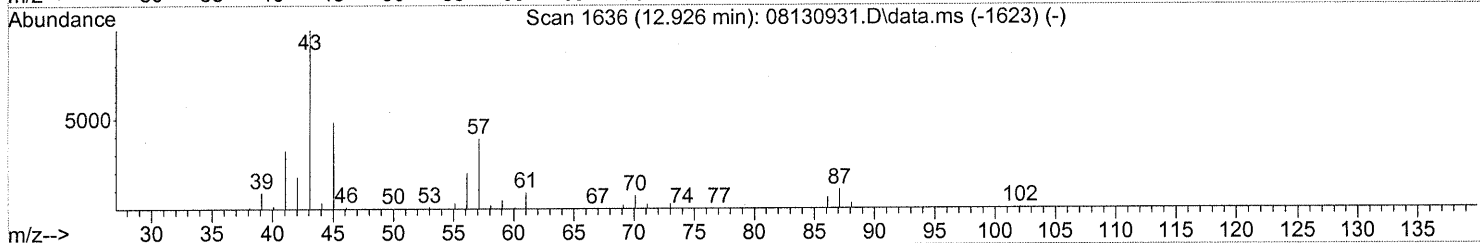
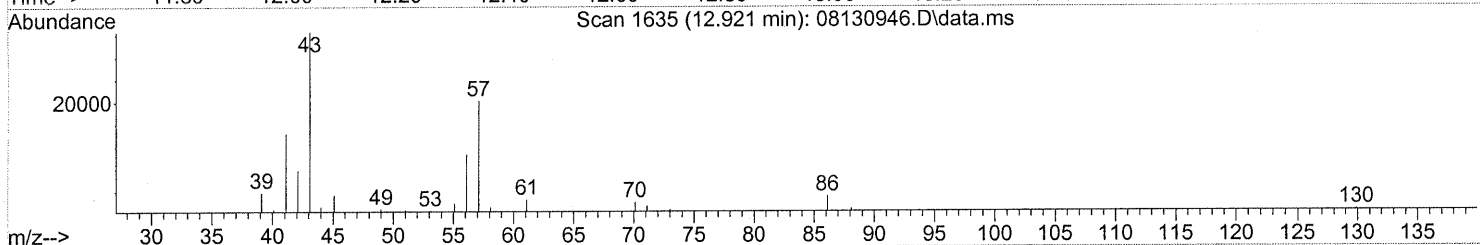
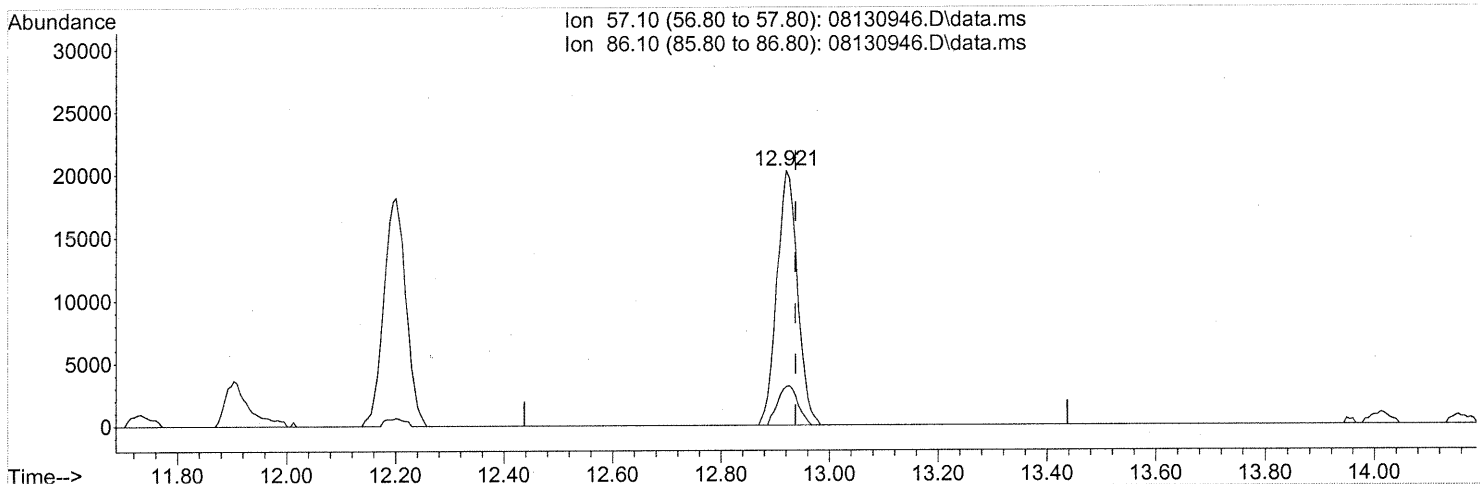
response 36152

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	402.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

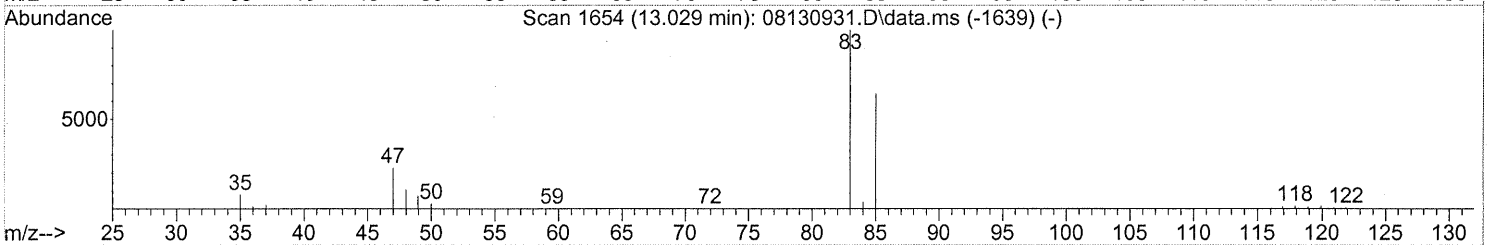
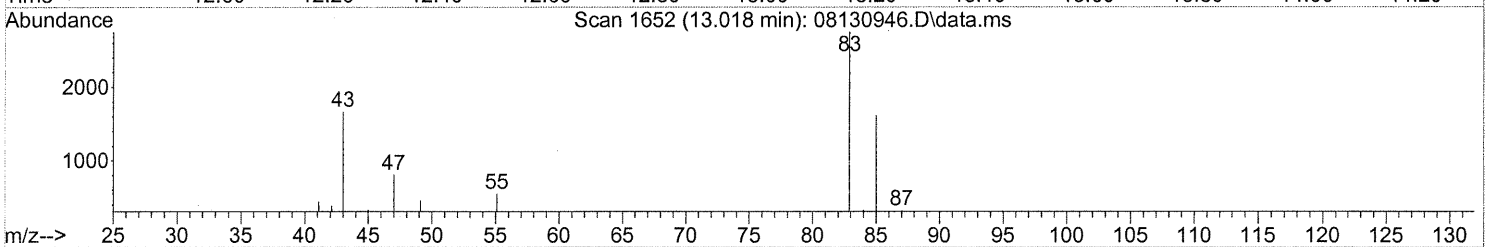
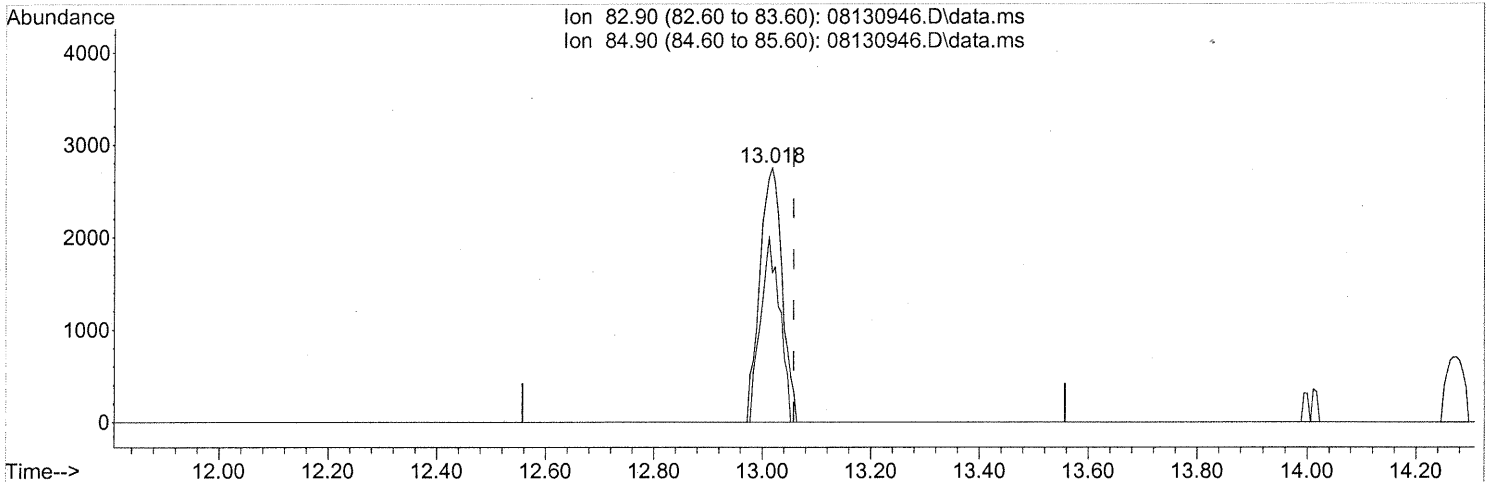
(31) n-Hexane (T)
 12.921min (-0.017) 1.22ng
 response 53276

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:37 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

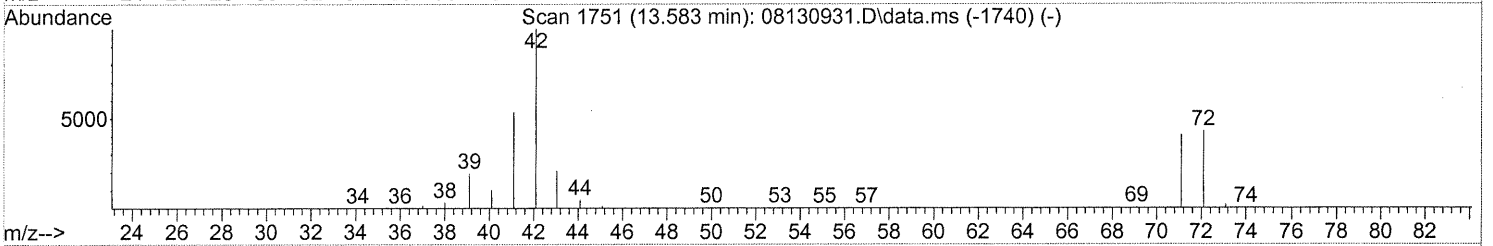
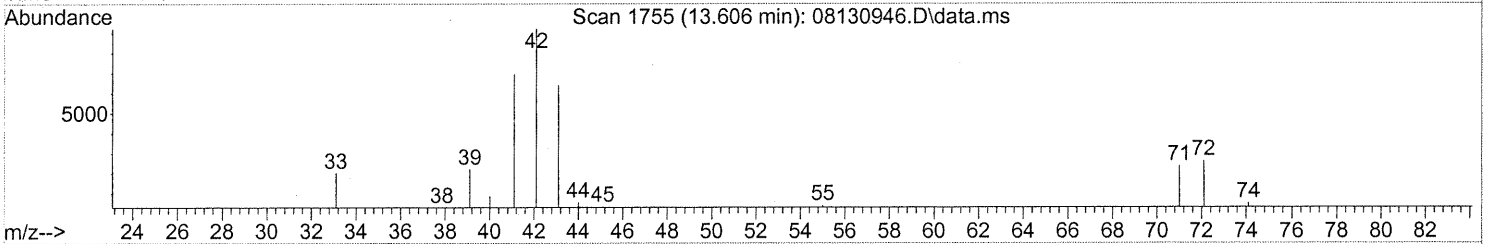
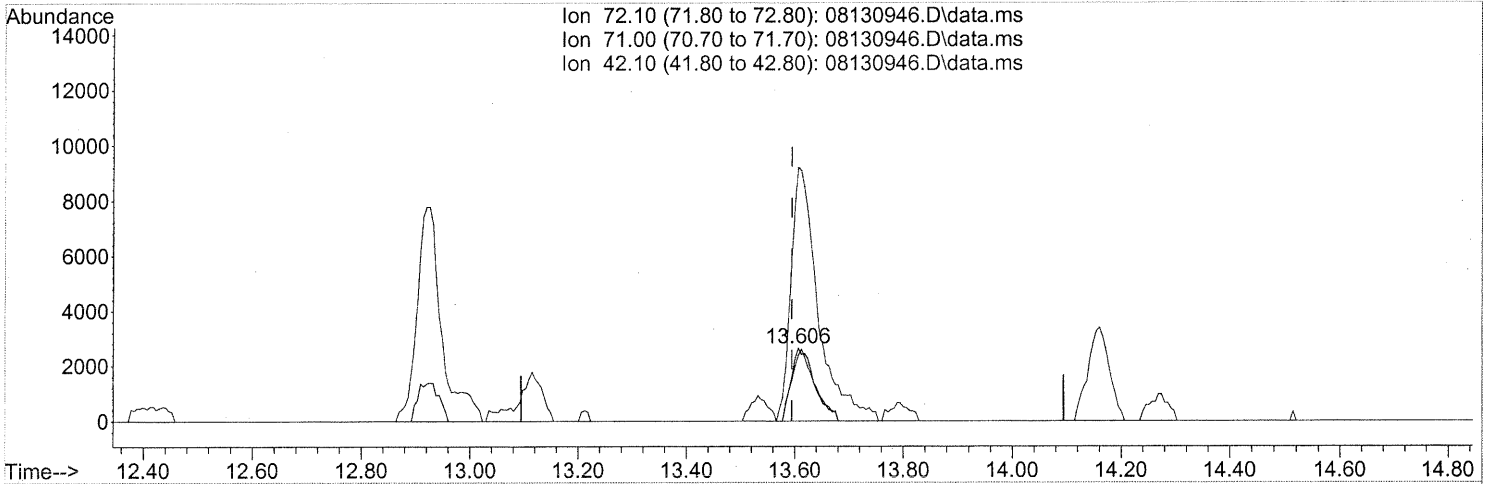
(32) Chloroform (T)
 13.018min (-0.040) 0.21ng
 response 7845

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	62.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.606min (+0.011) 0.55ng

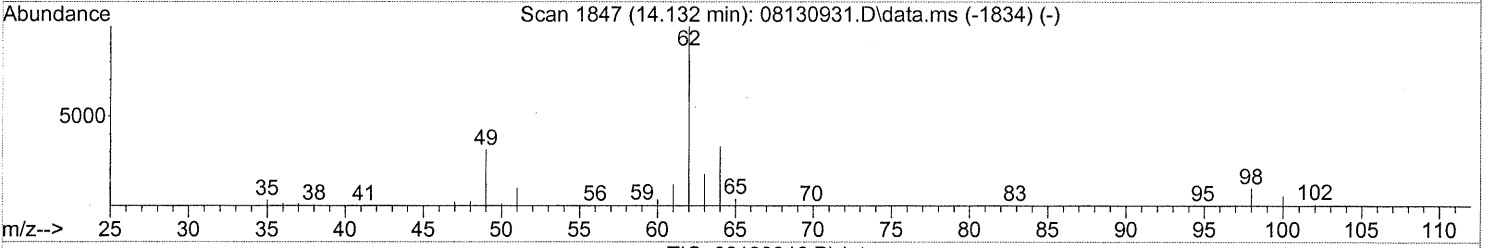
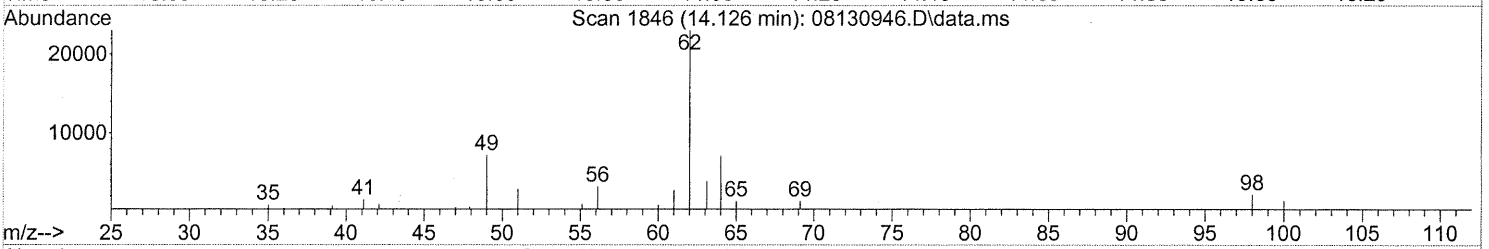
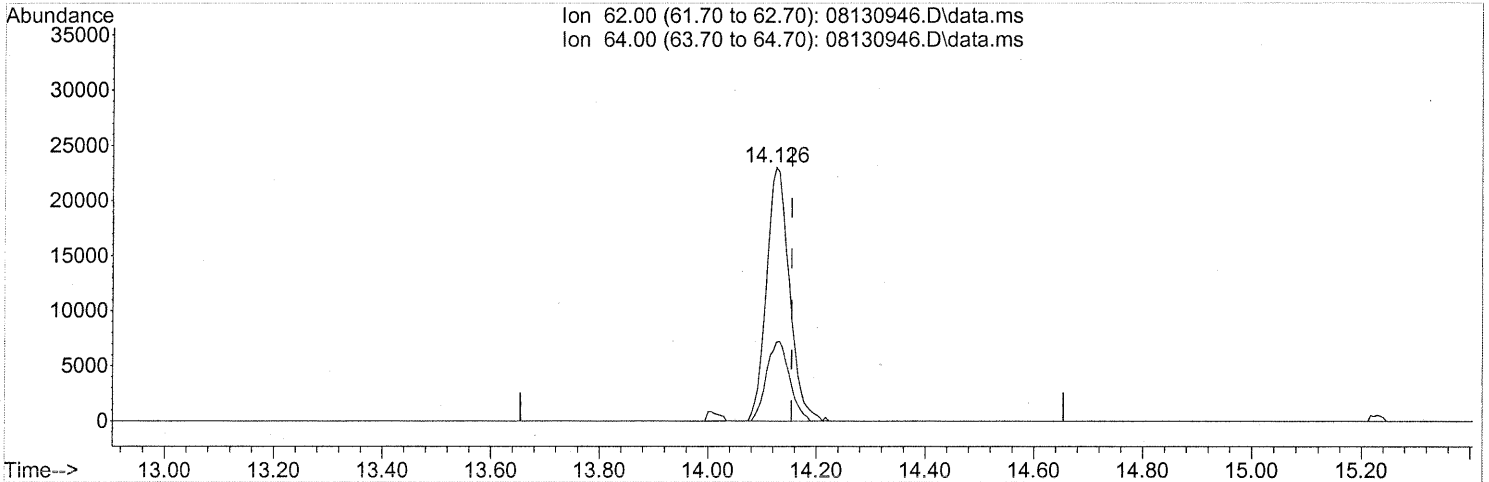
response 7948

Ion	Exp%	Act%
72.10	100	100
71.00	95.20	93.57
42.10	206.50	402.71#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.029) 2.40ng

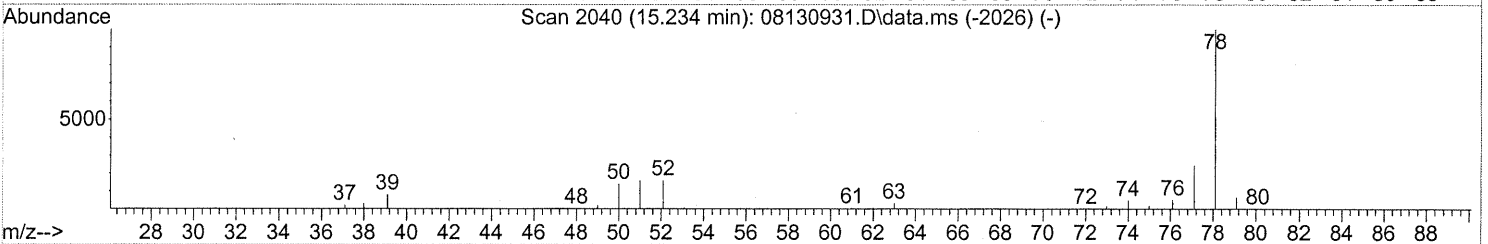
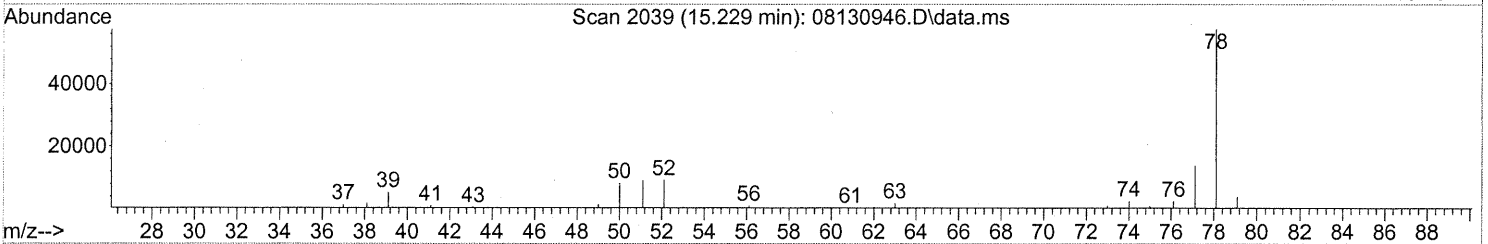
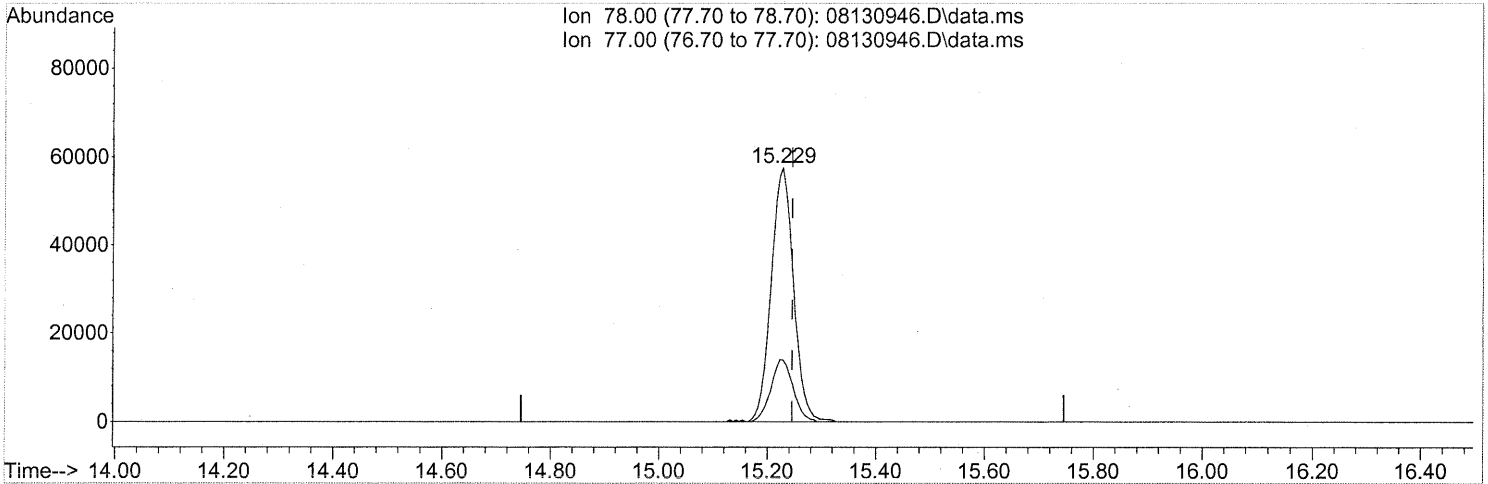
response 67294

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	31.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

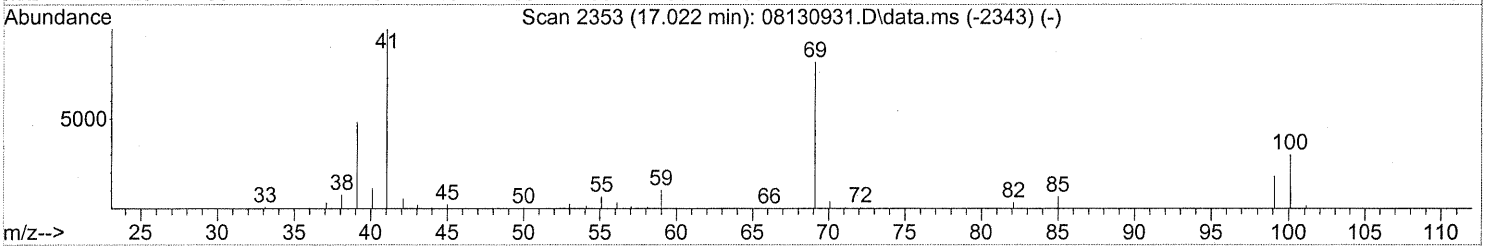
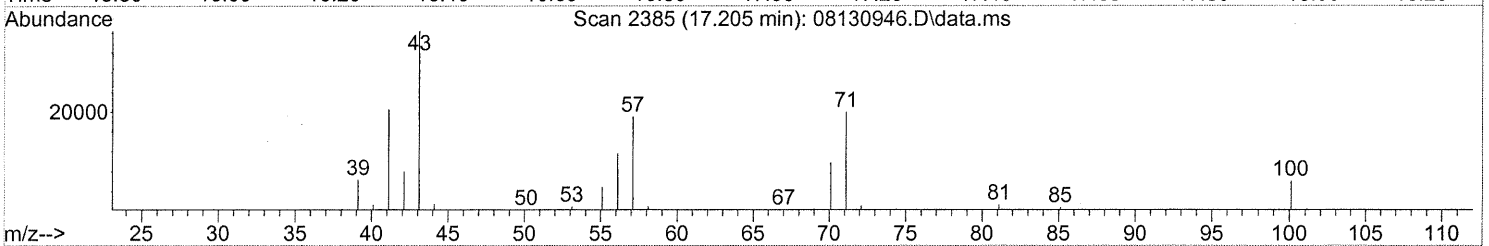
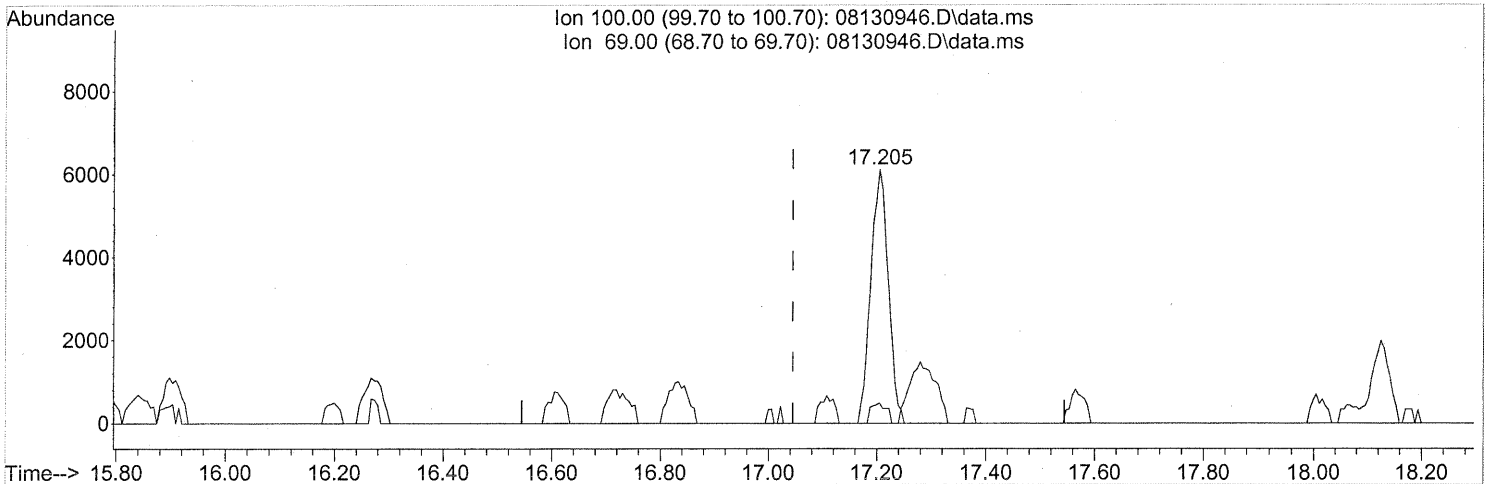
(41) Benzene (T)
 15.229min (-0.017) 1.68ng
 response 163270

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(50) Methyl Methacrylate (T)

17.205min (+0.160) 1.41ng

response 13654

Ion	Exp%	Act%
100.00	100	100
69.00	261.10	6.94#
0.00	0.00	0.00
0.00	0.00	0.00

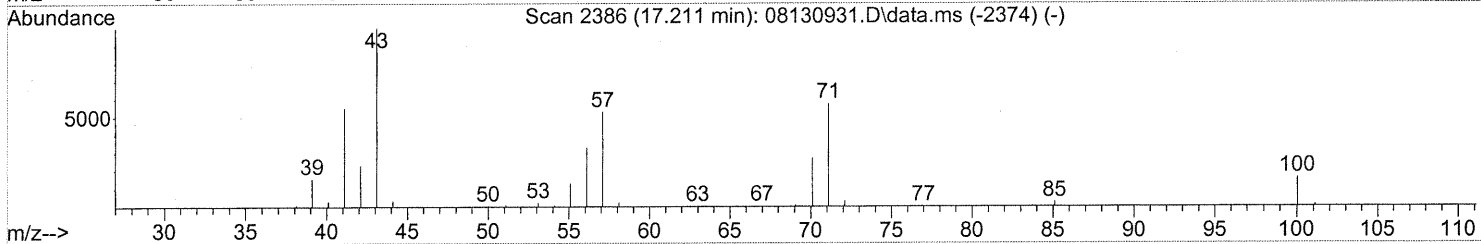
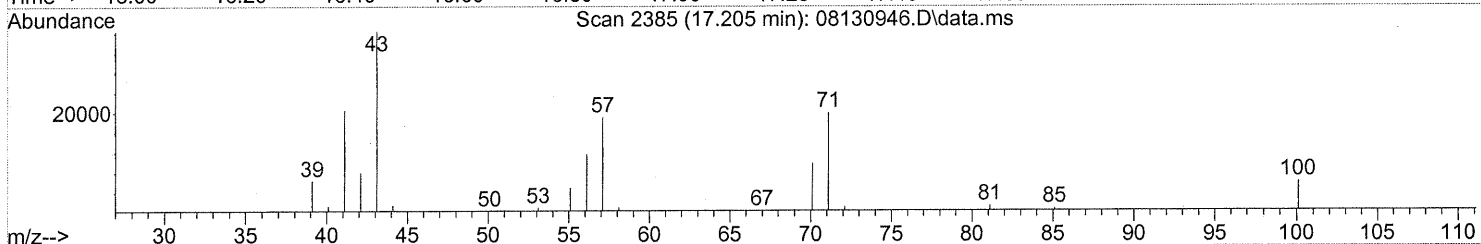
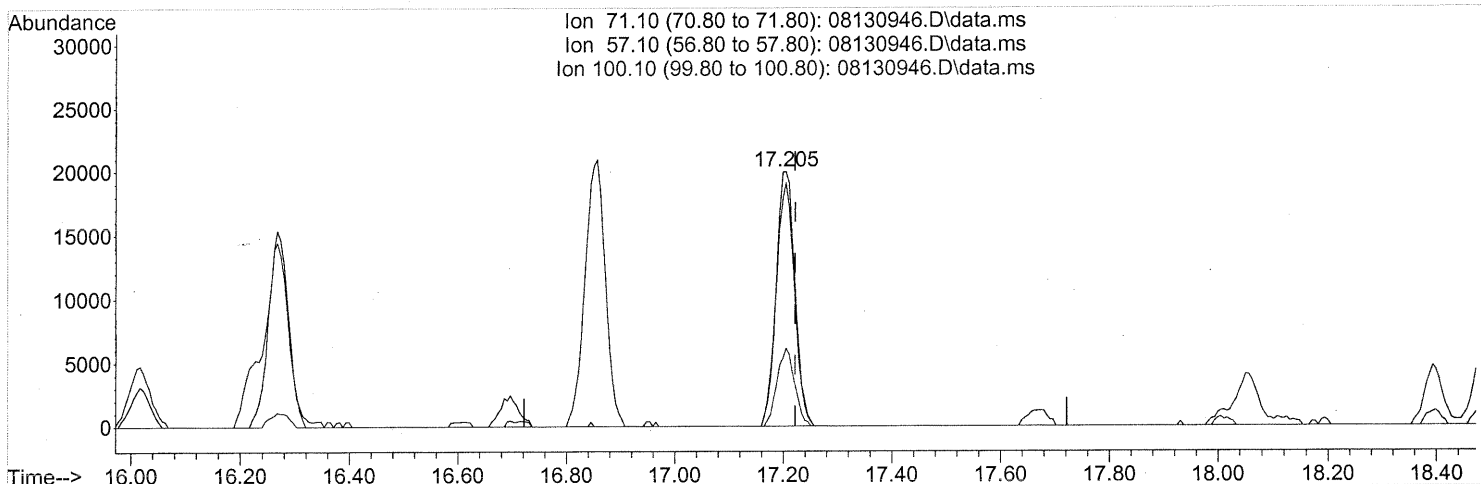
FP em 8/17/09

m 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

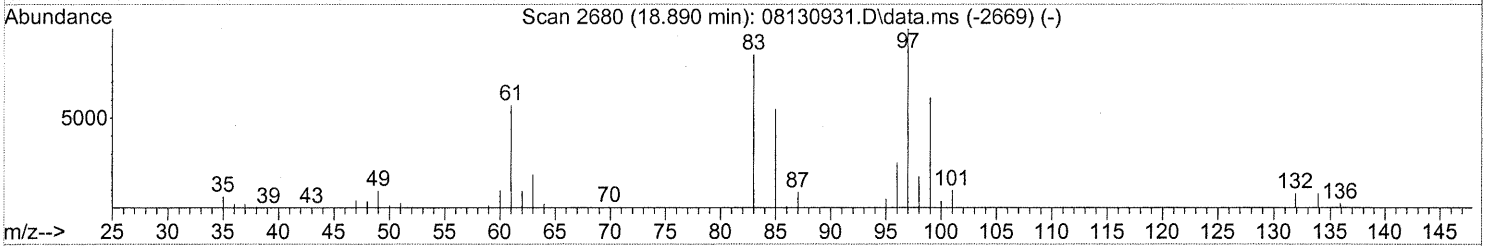
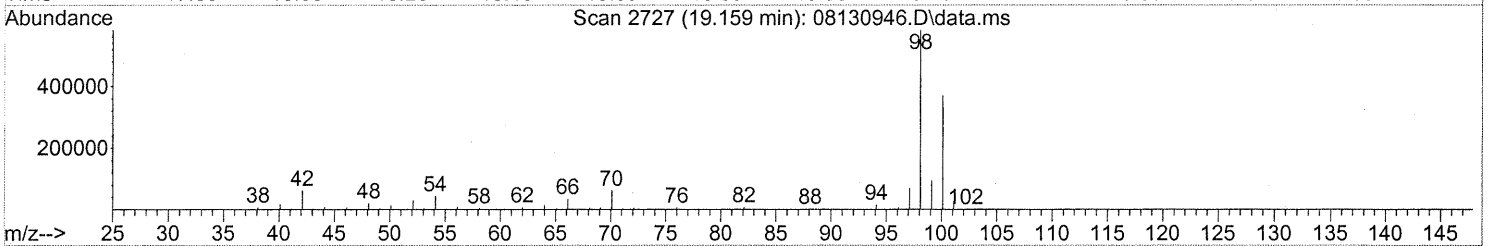
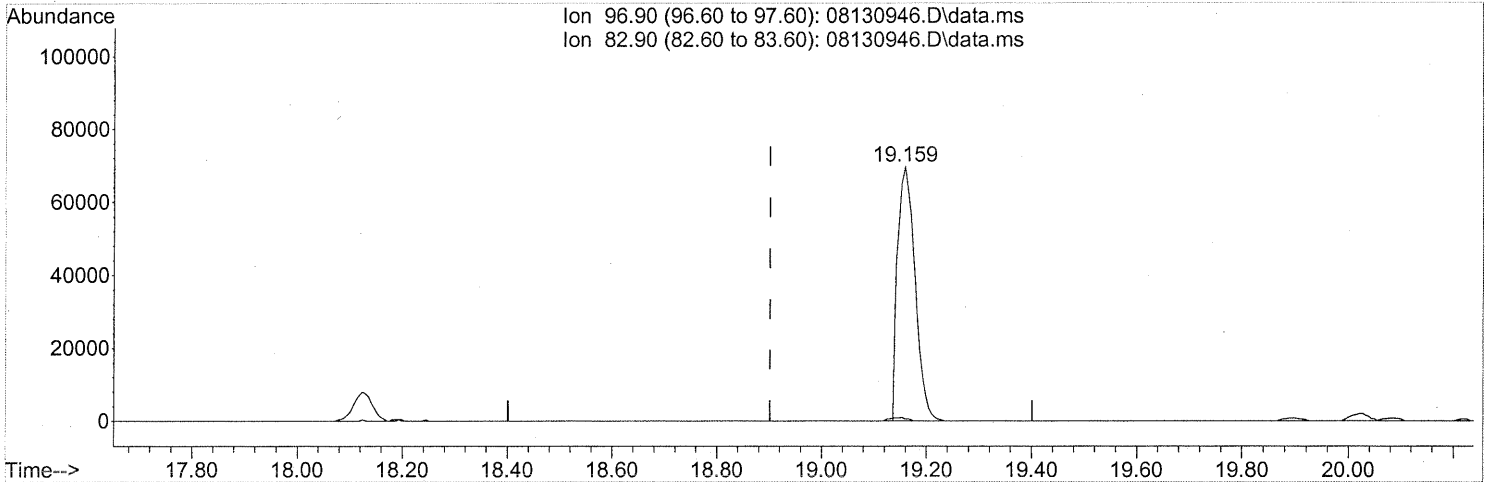
(51) n-Heptane (T)
 17.205min (-0.017) 1.85ng
 response 47986

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	91.76
100.10	30.70	28.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

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

19.159min (+0.257) 7.79ng

response 161845

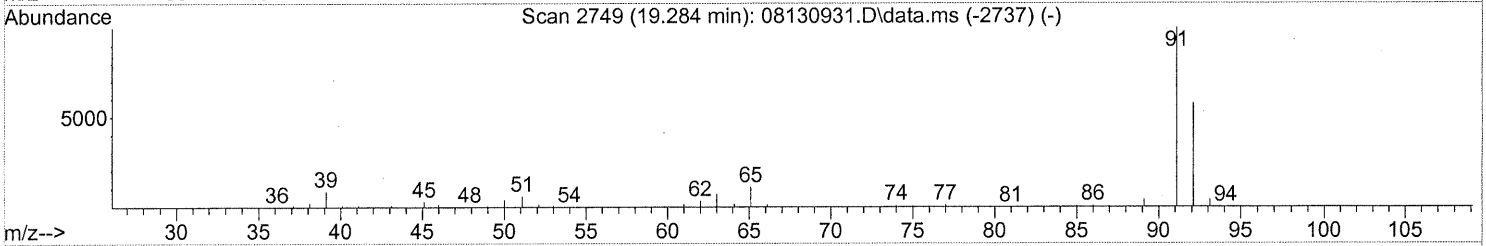
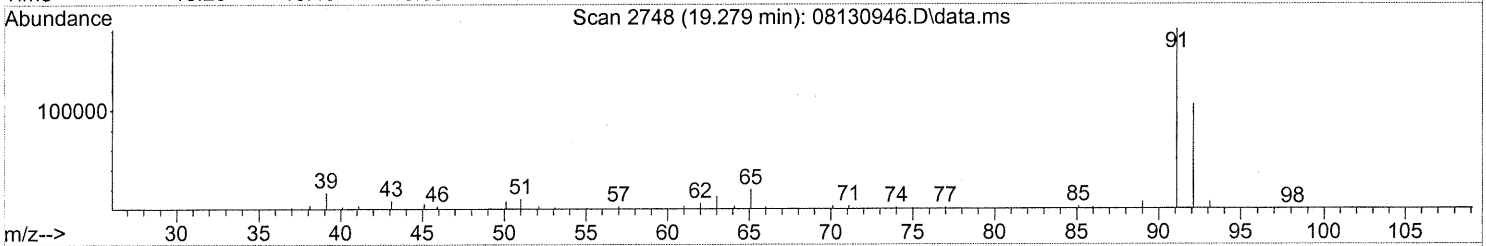
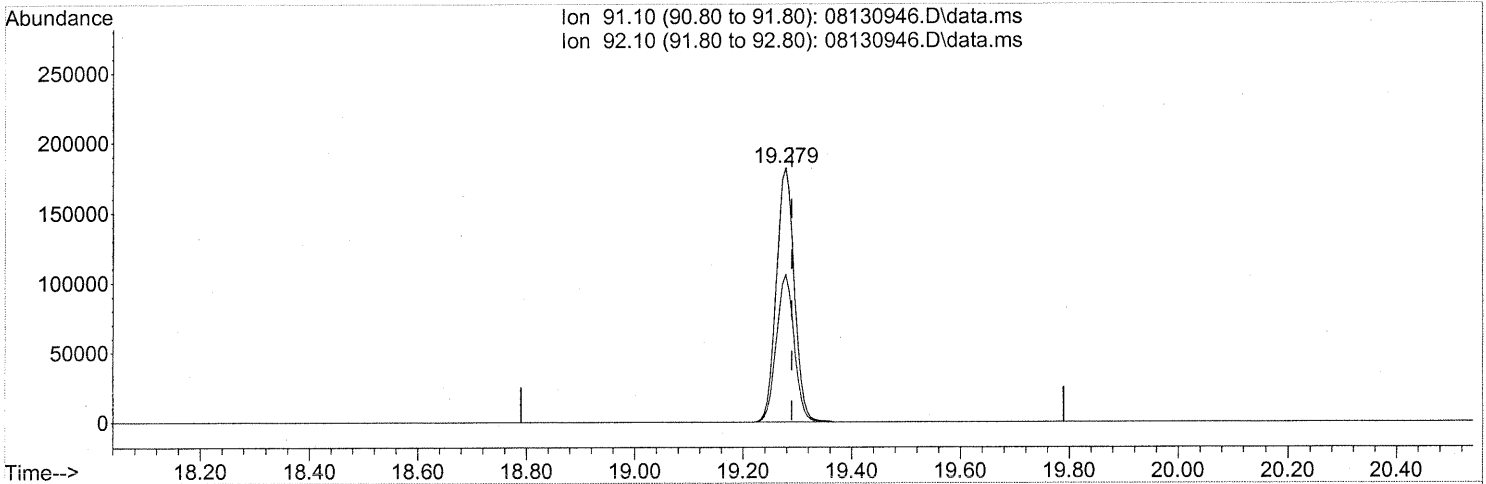
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.14#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/17/09
11/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 4.21ng

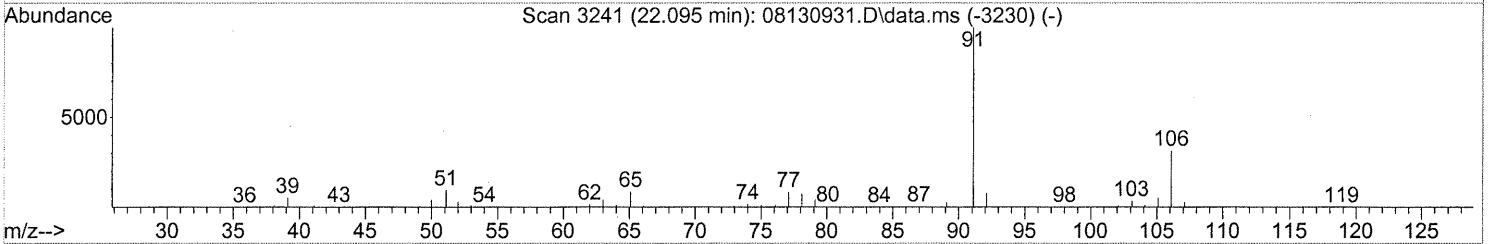
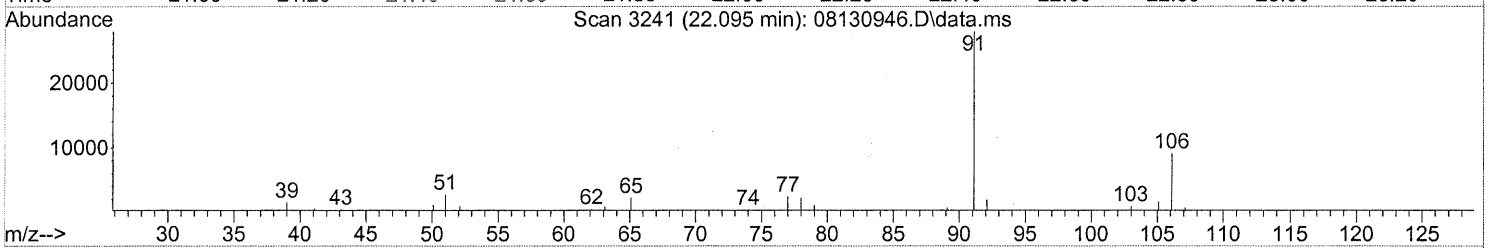
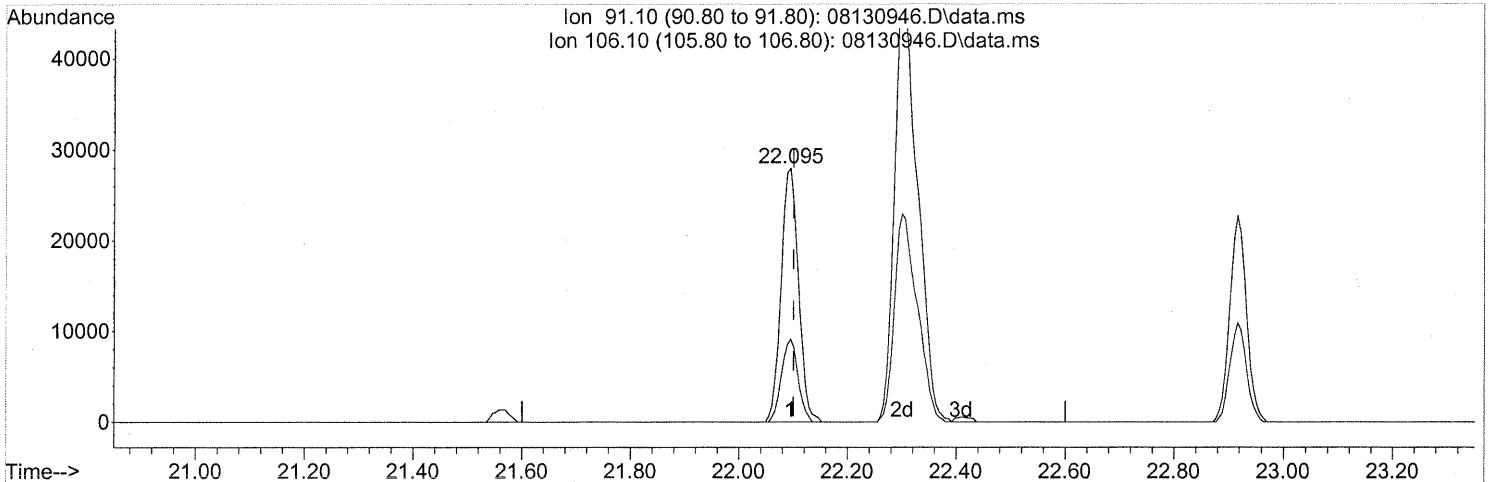
response 415956

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

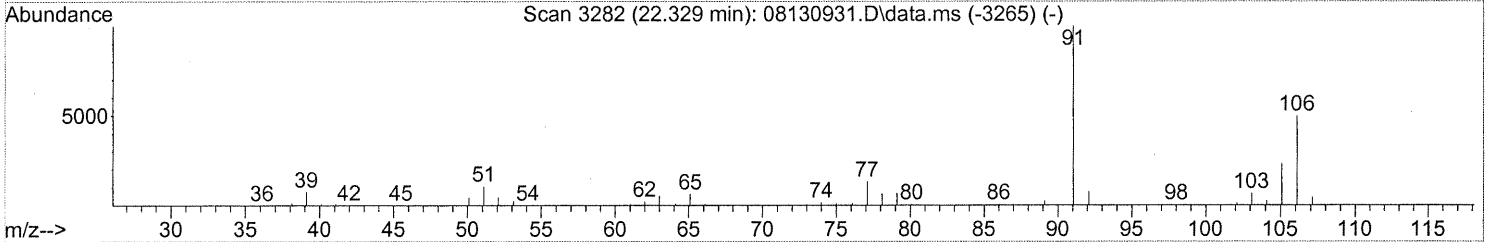
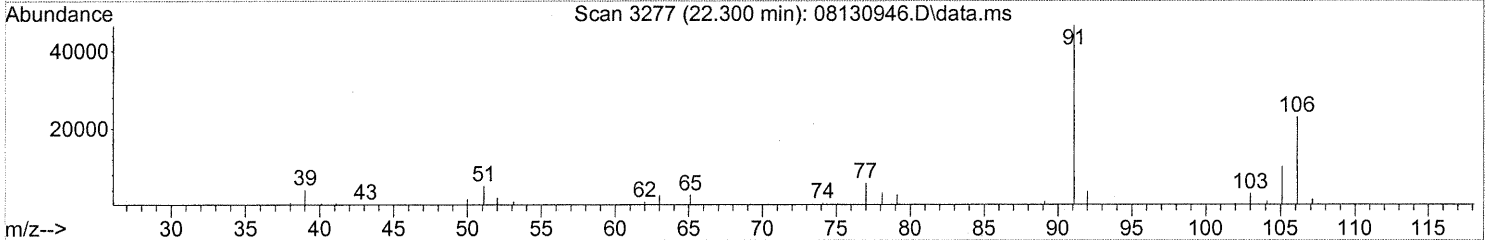
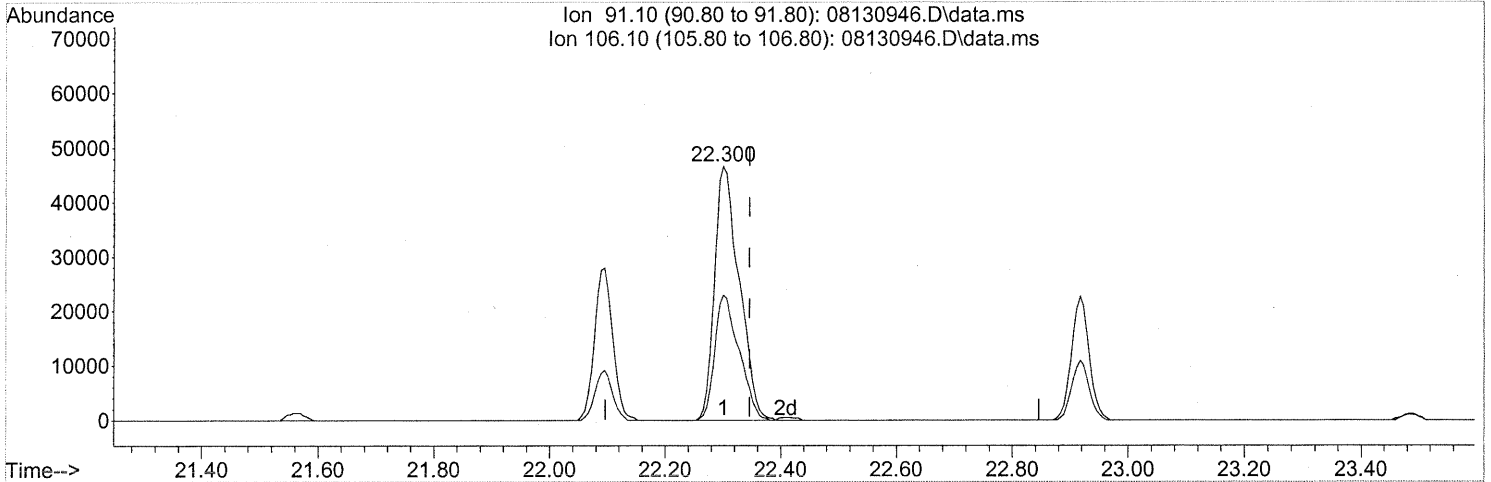
(66) Ethylbenzene (T)
 22.095min (-0.006) 0.58ng
 response 61496

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	31.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

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

22.300min (-0.046) 1.63ng

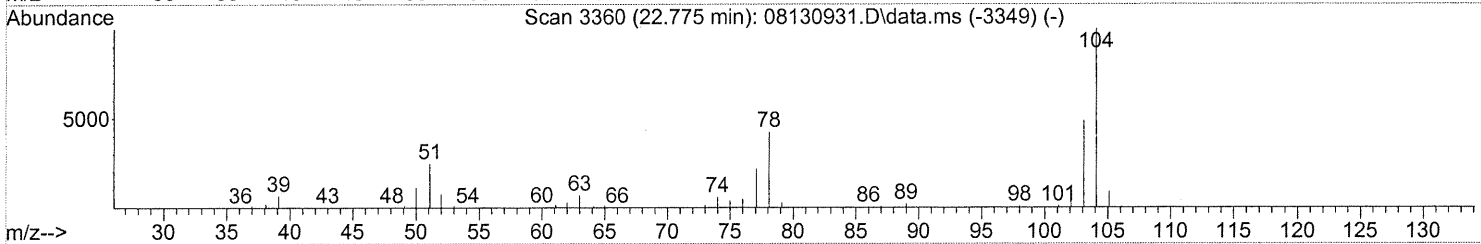
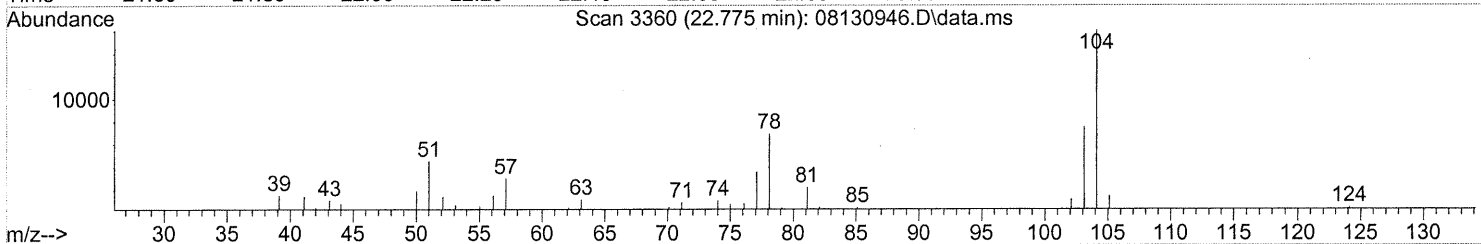
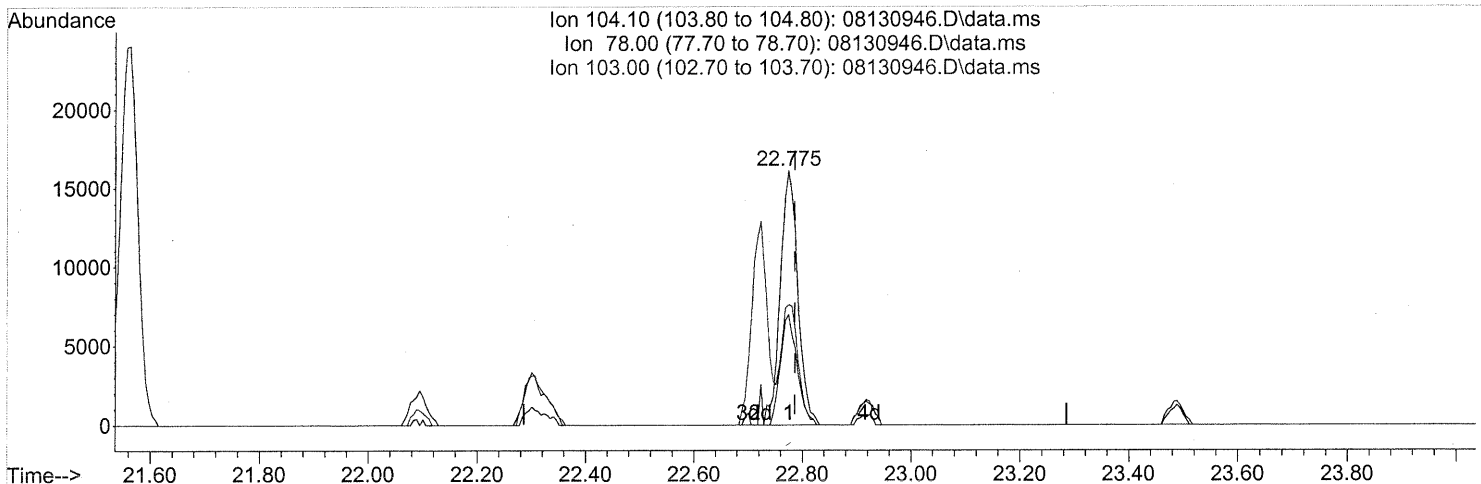
response 138099

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	48.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

(69) Styrene (T)

22.775min (-0.011) 0.57ng

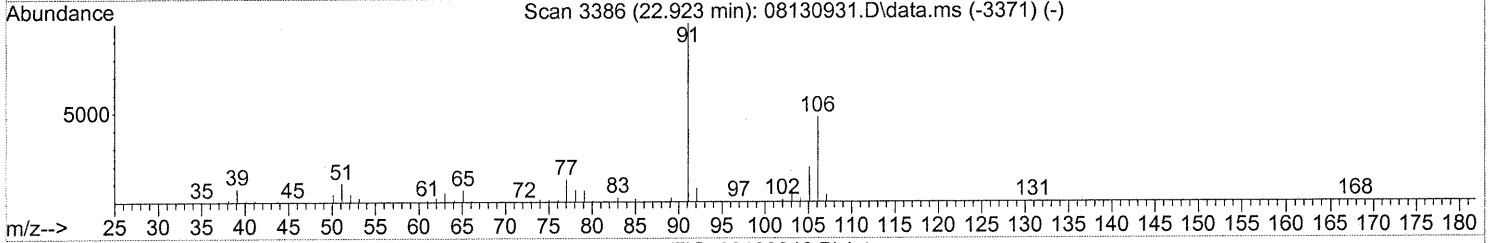
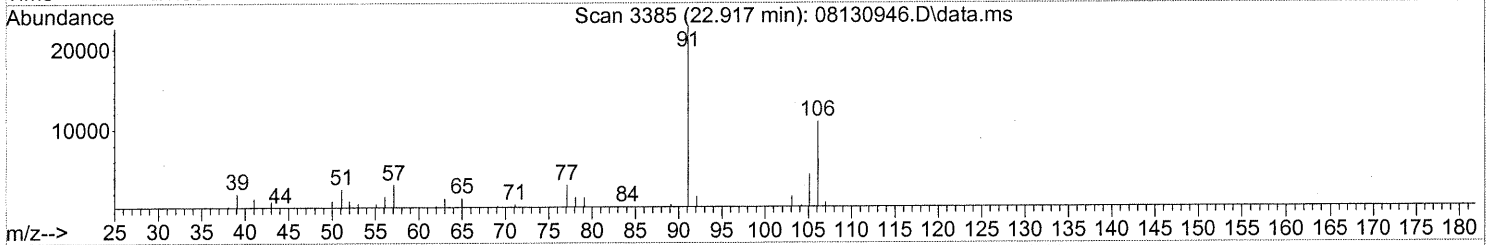
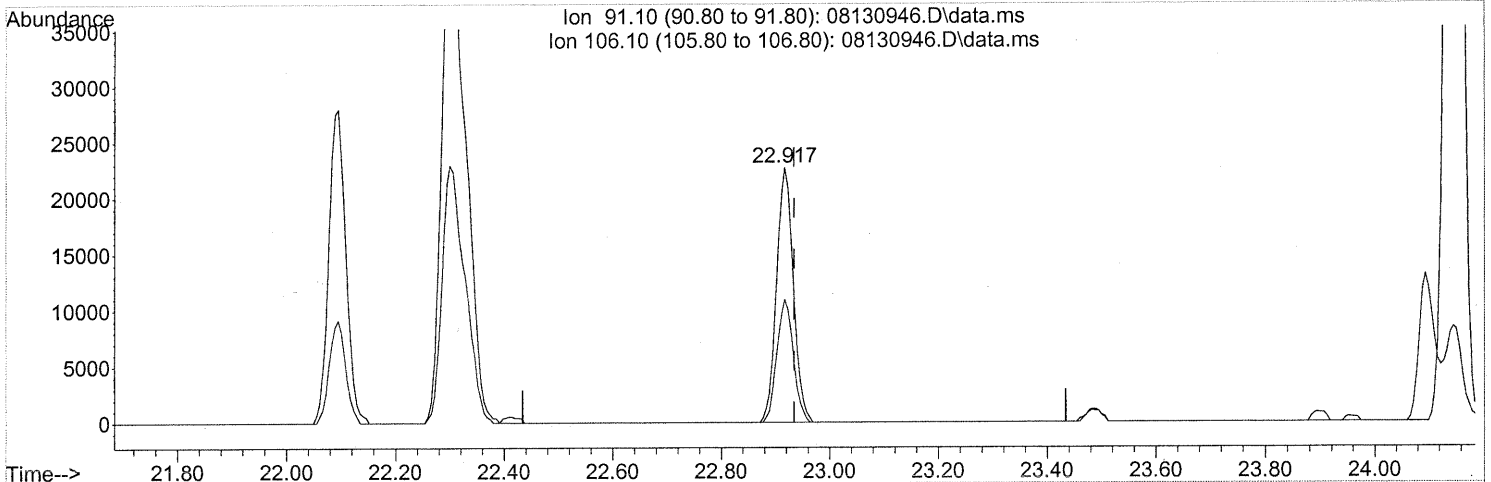
response 35772

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	40.92
103.00	48.70	45.15
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



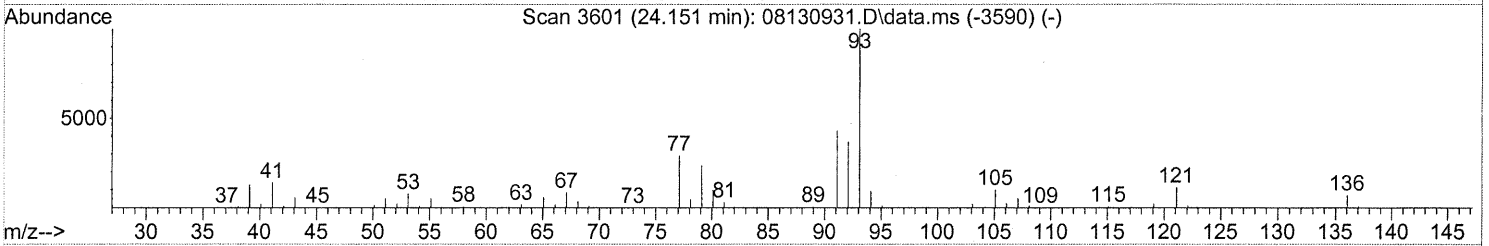
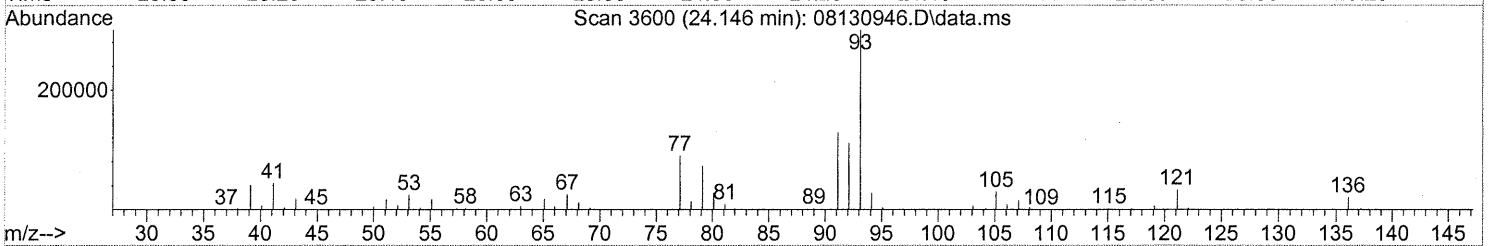
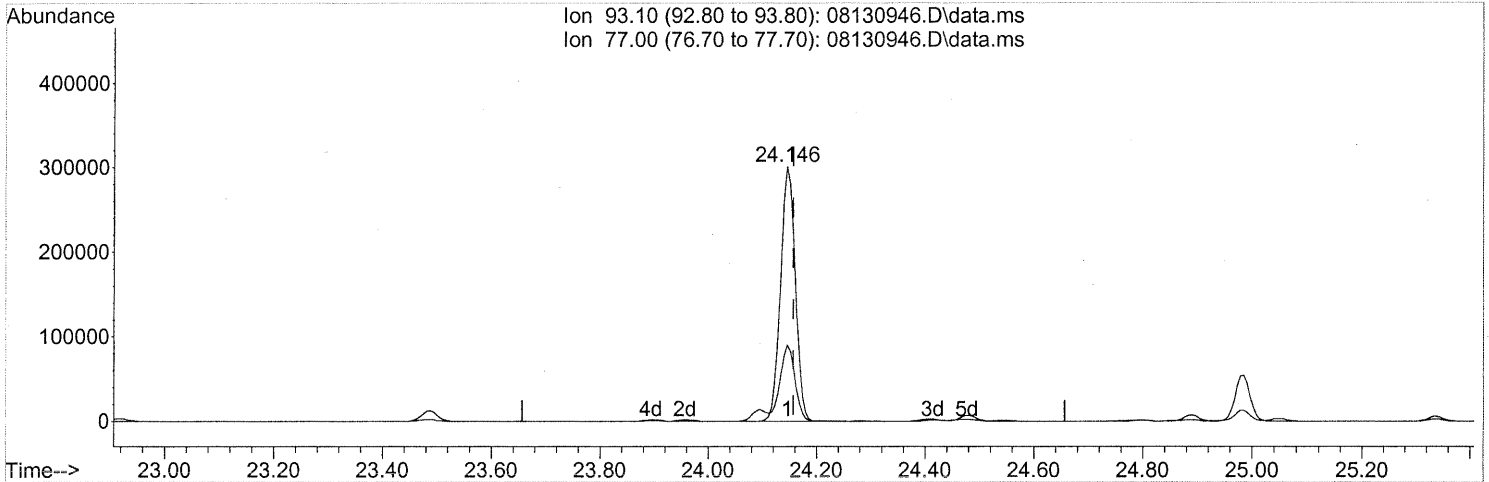
(70) o-Xylene (T)
 22.917min (-0.017) 0.57ng
 response 48211

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130946.D\data.ms

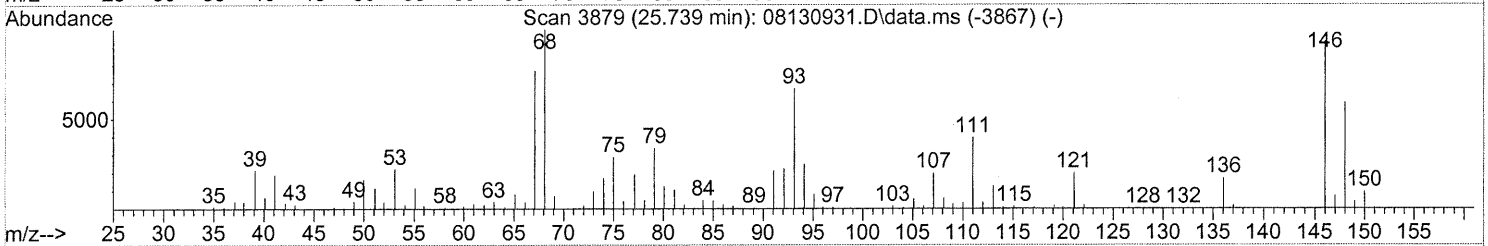
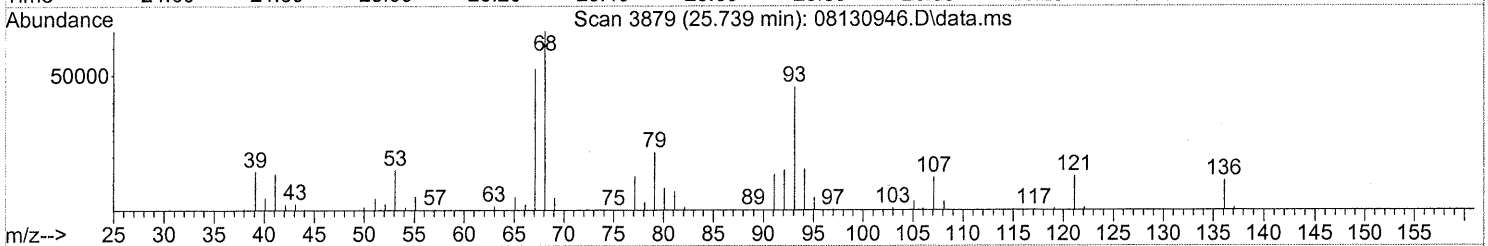
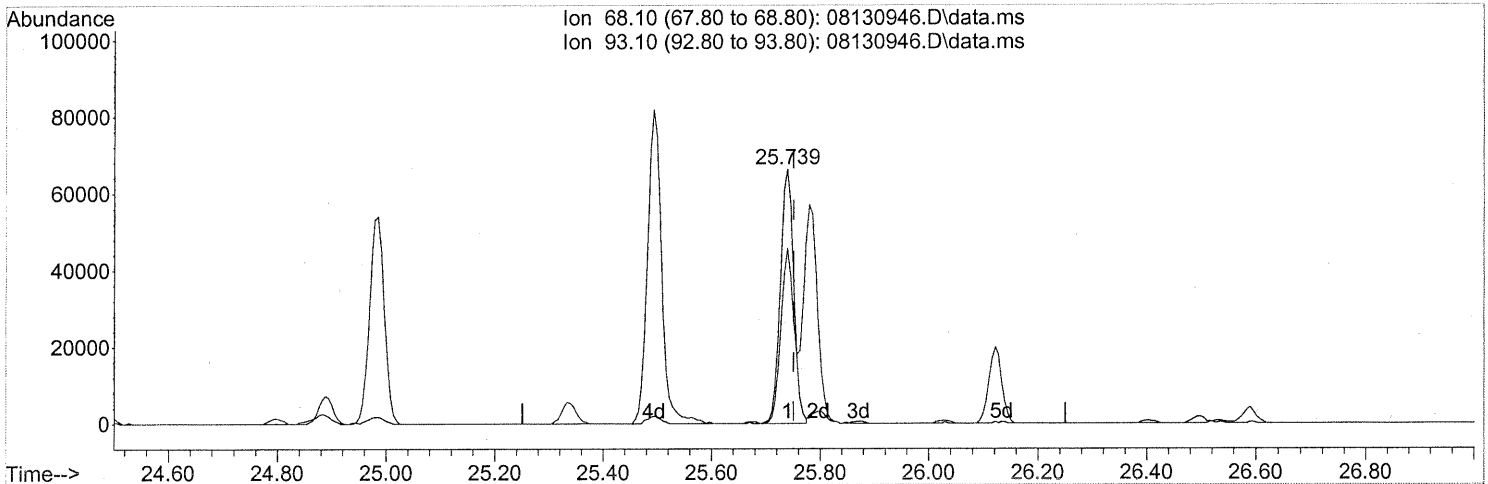
(75) alpha-Pinene (T)
 24.146min (-0.011) 10.34ng
 response 562530

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130946.D
 Acq On : 14 Aug 2009 17:03
 Operator : EM
 Sample : P0902720-003 (200ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 13:57:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



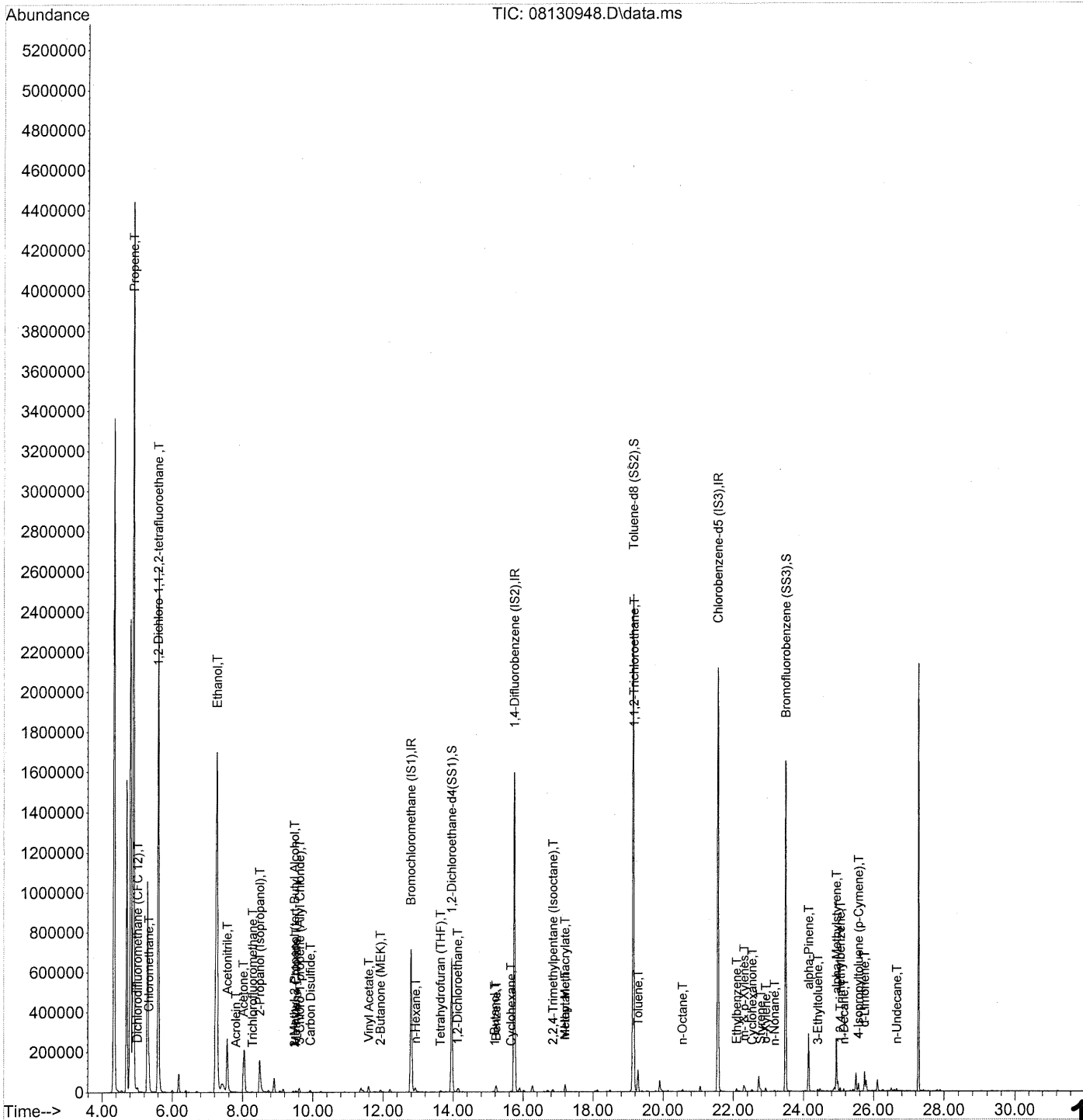
TIC: 08130946.D\data.ms

(91) d-Limonene (T)
 25.739min (-0.011) 2.99ng
 response 111669

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	65.89
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:09:35 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:09:35 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	378875	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1902912	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	913411	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	670712	25.036	ng	-0.03
Spiked Amount	25.000		Recovery	=	100.16%	
57) Toluene-d8 (SS2)	19.14	98	2204583	25.388	ng	-0.02
Spiked Amount	25.000		Recovery	=	101.56%	
73) Bromofluorobenzene (SS3)	23.49	174	597599	24.301	ng	0.00
Spiked Amount	25.000		Recovery	=	97.20%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.89	42	489913	14.741	ng	# 1
3) Dichlorodifluoromethan...	5.01	85	14470	0.305	ng	98
4) Chloromethane	5.33	50	2788	0.063	ng	79
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	8577	0.342	ng	95
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	3683296m	176.676	ng	
11) Acetonitrile	7.56	41	402392	7.909	ng	99
12) Acrolein	7.80	56	1989	0.146	ng	94
13) Acetone	8.02	58	74166	3.496	ng	# 51
14) Trichlorofluoromethane	8.28	101	3015	0.074	ng	80
15) 2-Propanol (Isopropanol)	8.48	45	356857	6.142	ng	96
16) Acrylonitrile	8.74	53	488	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	7198	0.122	ng	# 63
19) Methylene Chloride	9.52	84	4482	0.169	ng	82
20) 3-Chloro-1-propene (Al...	9.62	41	6034	0.170	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	21299	0.228	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	11.44	73	903	N.D.		
26) Vinyl Acetate	11.60	86	861	0.187	ng	# 1
27) 2-Butanone (MEK)	11.93	72	6330	0.428	ng	# 40
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.93	57	12880	0.275	ng	8131

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:09:35 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	1751	N.D.		
34) Tetrahydrofuran (THF)	13.63	72	1397	0.091 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	15751	0.526 ng		97
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.19	56	4736	0.192 ng		95
41) Benzene	15.23	78	39821	0.389 ng		100
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.65	84	2501	0.063 ng	#	65
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...	16.85	57	13946	0.118 ng		95
50) Methyl Methacrylate	17.20	100	3381	0.331 ng	#	1
51) n-Heptane	17.20	71	11463	0.421 ng		93
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	19.16	97	170642	7.805 ng	#	8
58) Toluene	19.28	91	100473	0.954 ng		99
59) 2-Hexanone	19.59	43	1209	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.47	43	2823	N.D.		
63) n-Octane	20.55	57	1915	0.082 ng	#	80
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	14737	0.130 ng		97
67) m- & p-Xylenes	22.31	91	33419	0.371 ng		99
68) Bromoform	22.42	173	254	N.D.		
69) Styrene	22.78	104	8030	0.121 ng		97
70) o-Xylene	22.92	91	11885	0.131 ng		97
71) n-Nonane	23.17	43	2901	0.053 ng		86
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	832	N.D.		
75) alpha-Pinene	24.15	93	135677	2.340 ng		93
76) n-Propylbenzene	24.28	91	3261	N.D.		
77) 3-Ethyltoluene	24.41	105	8446	0.077 ng		88
78) 4-Ethyltoluene	24.47	105	4585	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	3523	N.D.		

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 14:09:35 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

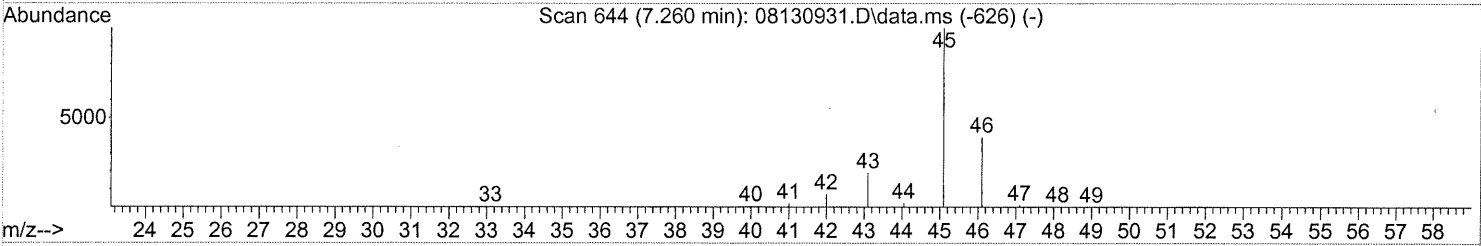
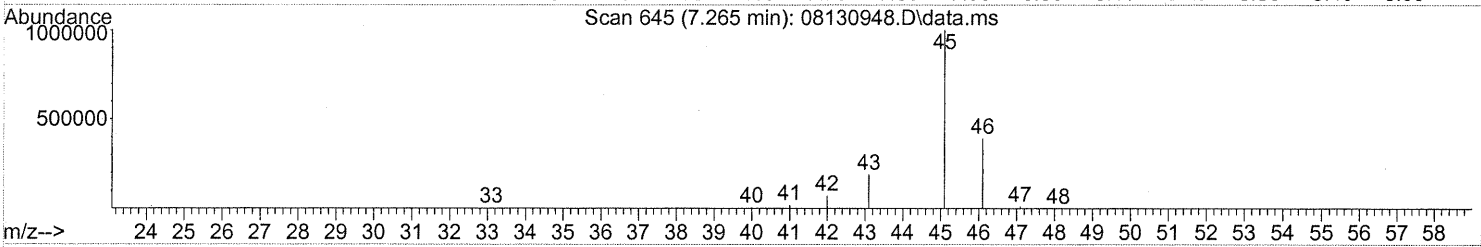
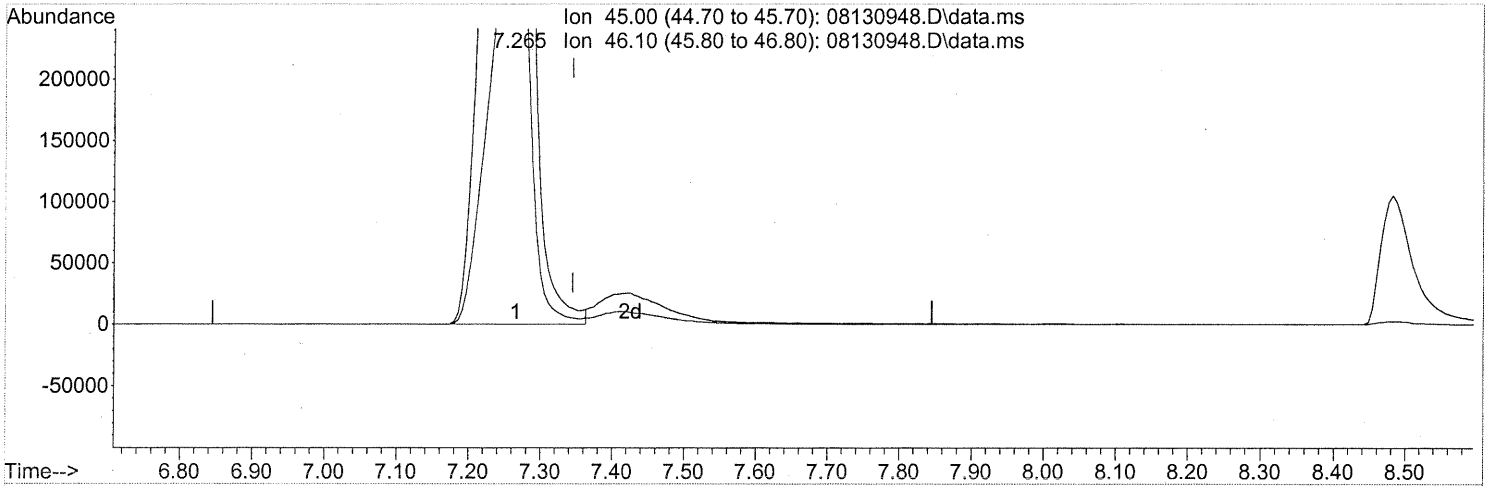
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.94	118	3869	0.078	ng #	5
81) 2-Ethyltoluene	24.79	105	3301	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	10392	0.107	ng	84
83) n-Decane	25.15	57	4620	0.082	ng	90
84) Benzyl Chloride	25.34	91	1588	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.37	105	220	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	23094	0.188	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	4122	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.74	68	27046	0.680	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5644	0.097	ng	83
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	3367	N.D.		
96) n-Dodecane	27.89	57	3012	N.D.		
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	4610	0.139	ng #	87
99) tert-Butylbenzene	25.05	119	1416	N.D.		
100) n-Butylbenzene	26.07	91	828	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130948.D\data.ms

(10) Ethanol (T)
 7.265min (-0.080) 168.32ng

response 3509175

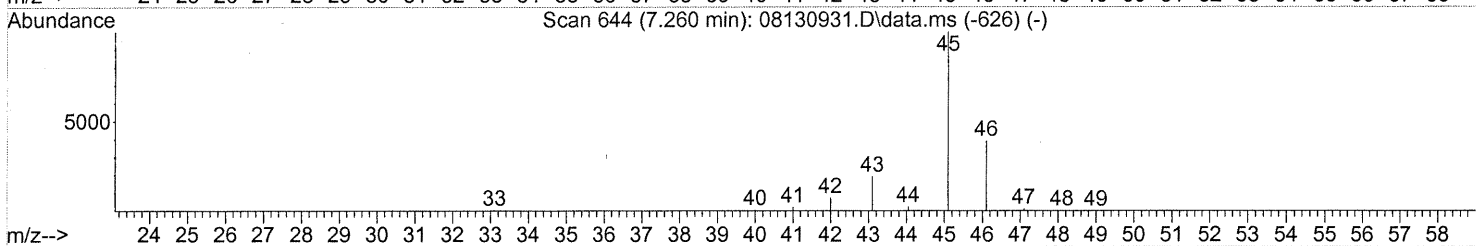
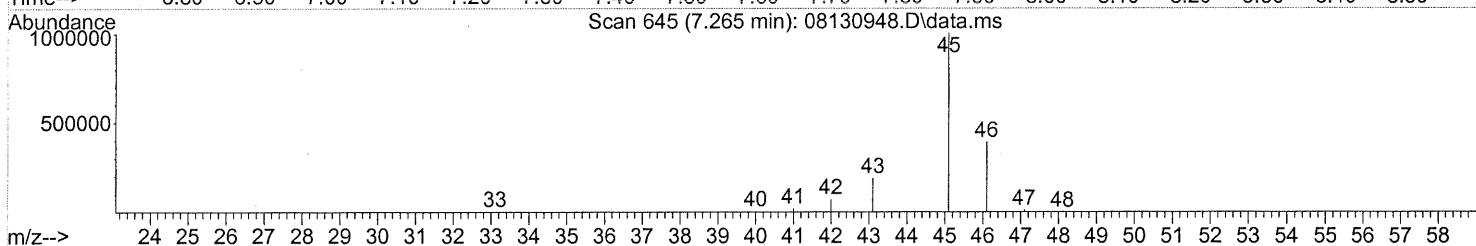
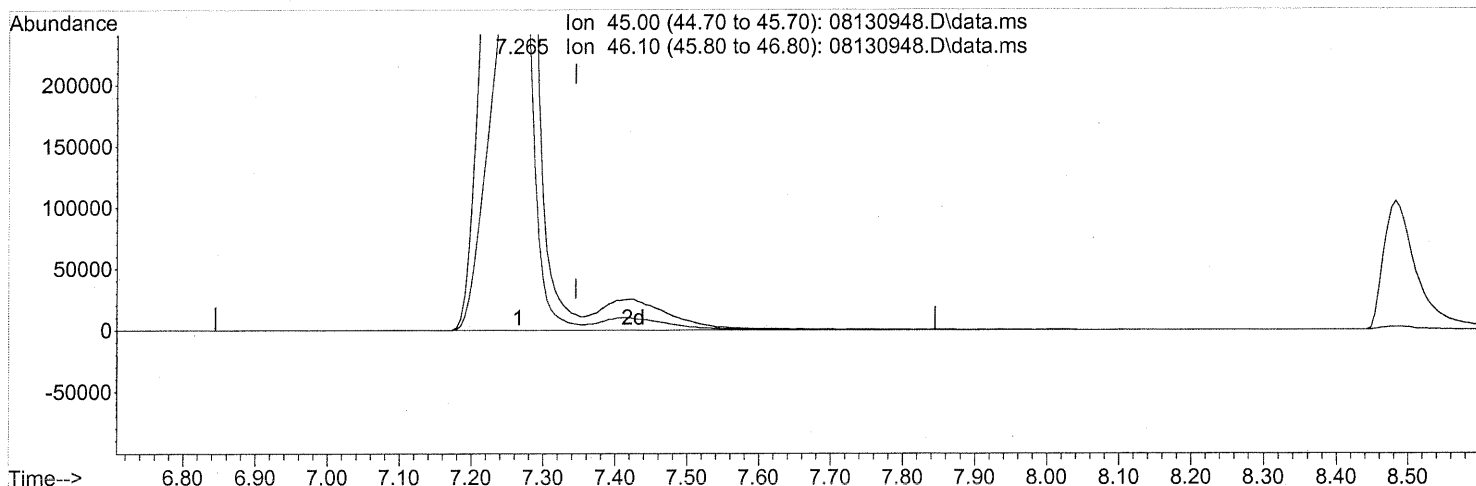
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.16
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130948.D
 Acq On : 14 Aug 2009 18:26
 Operator : EM
 Sample : P0902720-003 dil (50ml)
 Misc : Environmental H & E 99936
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 17 08:25:42 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130948.D\data.ms

(10) Ethanol (T)

7.265min (-0.080) 176.68ng m

response 3683296

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.31
0.00	0.00	0.00
0.00	0.00	0.00

*PT → LC
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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100675
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01665

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7


Canister Dilution Factor: 1.57

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	19	0.79	11	0.46	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.79	0.49	0.16	
74-87-3	Chloromethane	0.79	0.16	0.38	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	0.18	0.16	0.045	0.040	
75-00-3	Chloroethane	ND	0.16	ND	0.060	
64-17-5	Ethanol	2,900	7.9	1,500	4.2	D
75-05-8	Acetonitrile	210	0.79	120	0.47	D
107-02-8	Acrolein	3.8	0.79	1.7	0.34	
67-64-1	Acetone	85	7.9	36	3.3	
75-69-4	Trichlorofluoromethane	1.7	0.16	0.30	0.028	
67-63-0	2-Propanol (Isopropyl Alcohol)	85	0.79	35	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	3.0	0.79	0.85	0.23	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	ND	0.050	
76-13-1	Trichlorotrifluoroethane	0.56	0.16	0.073	0.020	
75-15-0	Carbon Disulfide	ND	0.79	ND	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	ND	0.16	ND	0.044	
108-05-4	Vinyl Acetate	ND	7.9	ND	2.2	
78-93-3	2-Butanone (MEK)	4.3	0.79	1.4	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.

D = The reported result is from a dilution.

Verified By:  Date: 8/21/09 **136**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100675

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-004

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01665

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.57

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	0.040	
141-78-6	Ethyl Acetate	4.9	1.6	1.4	0.44	
110-54-3	n-Hexane	8.0	0.79	2.3	0.22	
67-66-3	Chloroform	3.1	0.16	0.63	0.032	
109-99-9	Tetrahydrofuran (THF)	ND	0.79	ND	0.27	
107-06-2	1,2-Dichloroethane	6.9	0.16	1.7	0.039	
71-55-6	1,1,1-Trichloroethane	ND	0.16	ND	0.029	
71-43-2	Benzene	3.5	0.16	1.1	0.049	
56-23-5	Carbon Tetrachloride	0.85	0.16	0.14	0.025	
110-82-7	Cyclohexane	1.2	0.79	0.33	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	1.6	ND	0.38	
142-82-5	n-Heptane	3.7	0.79	0.90	0.19	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	ND	0.17	
108-10-1	4-Methyl-2-pentanone	2.3	0.79	0.56	0.19	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	ND	0.17	
79-00-5	1,1,2-Trichloroethane	ND	0.16	ND	0.029	
108-88-3	Toluene	28	0.79	7.5	0.21	
591-78-6	2-Hexanone	1.1	0.79	0.26	0.19	
124-48-1	Dibromochloromethane	0.35	0.16	0.042	0.018	
106-93-4	1,2-Dibromoethane	ND	0.16	ND	0.020	
123-86-4	n-Butyl Acetate	2.1	0.79	0.44	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: 8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100675
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01665

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.7

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	1.6	0.79	0.34	0.17	
127-18-4	Tetrachloroethene	0.98	0.16	0.14	0.023	
108-90-7	Chlorobenzene	ND	0.16	ND	0.034	
100-41-4	Ethylbenzene	5.4	0.79	1.2	0.18	
179601-23-1	m,p-Xylenes	17	0.79	3.9	0.18	
75-25-2	Bromoform	1.9	0.79	0.18	0.076	
100-42-5	Styrene	1.1	0.79	0.26	0.18	
95-47-6	o-Xylene	6.5	0.79	1.5	0.18	
111-84-2	n-Nonane	1.1	0.79	0.20	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	17	0.79	3.1	0.14	
103-65-1	n-Propylbenzene	1.6	0.79	0.32	0.16	
622-96-8	4-Ethyltoluene	2.7	0.79	0.54	0.16	
108-67-8	1,3,5-Trimethylbenzene	2.7	0.79	0.55	0.16	
95-63-6	1,2,4-Trimethylbenzene	9.6	0.79	1.9	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	ND	0.16	ND	0.026	
5989-27-5	d-Limonene	21	0.79	3.7	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	1.3	0.79	0.24	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.

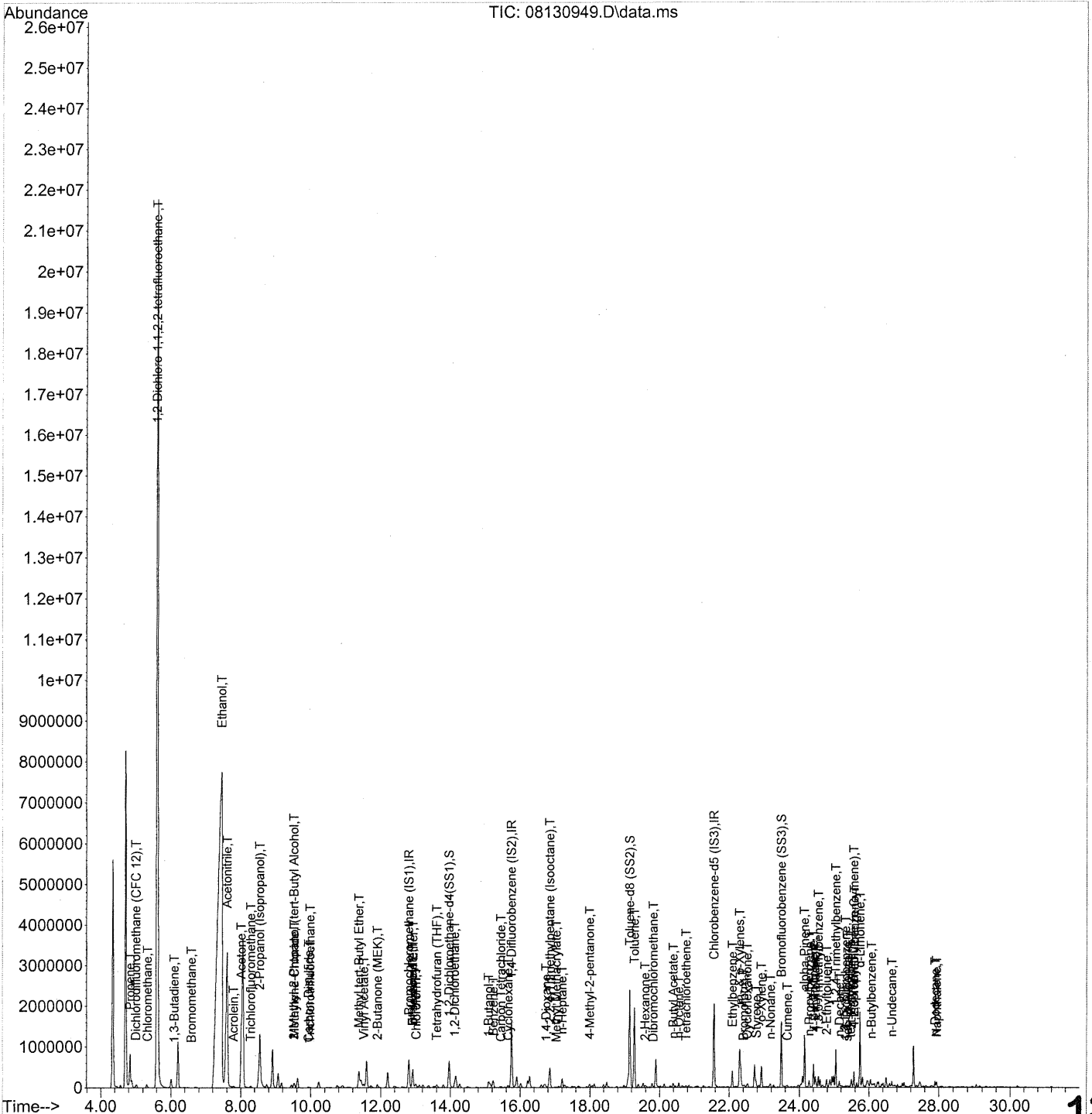
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 8/24/09 **138**

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675 ✓
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	361270	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1848734	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	868783	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.96	65	642102	25.136	ng	-0.03
Spiked Amount	25.000			Recovery =	100.56%	
57) Toluene-d8 (SS2)	19.15	98	2116806	25.630	ng	-0.01
Spiked Amount	25.000			Recovery =	102.52%	
73) Bromofluorobenzene (SS3)	23.49	174	581265	24.851	ng	0.00
Spiked Amount	25.000			Recovery =	99.40%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	380877	12.019	ng	96
3) Dichlorodifluoromethan...	5.00	85	69294	1.532	ng	99
4) Chloromethane	5.33	50	21095	0.500	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1648	0.069	ng	# 54
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1695	0.057	ng	# 42
8) Bromomethane	6.59	94	2444	0.112	ng	92
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.45	45	39399335	1981.958	ng	See Dil 99
11) Acetonitrile	7.61	41	6576444	135.558	ng	See Dil 99
12) Acrolein	7.79	56	31506	2.430	ng	99
13) Acetone	8.01	58	1096532	54.206	ng	# 1
14) Trichlorofluoromethane	8.29	101	41433	1.071	ng	98
15) 2-Propanol (Isopropanol)	8.54	45	2999190	54.138	ng	94
16) Acrylonitrile	8.84	53	670	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.51	59	59650	1.061	ng	# 26
19) Methylene Chloride	9.53	84	47614	1.887	ng	86
20) 3-Chloro-1-propene (Al...	9.72	41	1601	N.D.		
21) Trichlorotrifluoroethane	9.98	151	6154	0.355	ng	99
22) Carbon Disulfide	9.94	76	33765	0.379	ng	96
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	1193	N.D.		
25) Methyl tert-Butyl Ether	11.37	73	3672	0.053	ng	93
26) Vinyl Acetate	11.52	86	21133m	4.823	ng	
27) 2-Butanone (MEK)	11.90	72	38244	2.712	ng	# 90
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.93	87	2666	0.133	ng	# 1
30) Ethyl Acetate	12.91	61	28467	3.113	ng	93
31) n-Hexane	12.92	57	228382	5.123	ng	94

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EM 8/17/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.02	83	73618	1.973 ng		100
34) Tetrahydrofuran (THF)	13.61	72	6734	0.459 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	125255	4.387 ng		99
38) 1,1,1-Trichloroethane	14.53	97	459	N.D.		
39) Isopropyl Acetate	15.09	61	356	N.D.		
40) 1-Butanol	15.10	56	136226	5.686 ng		87
41) Benzene	15.23	78	220803	2.221 ng		98
42) Carbon Tetrachloride	15.45	117	15098	0.543 ng		98
43) Cyclohexane	15.65	84	28232	0.733 ng		86
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	241	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	16.77	130	362	N.D.		
48) 1,4-Dioxane	16.75	88	923	0.052 ng		84
49) 2,2,4-Trimethylpentane...	16.85	57	593066	5.183 ng		99
50) Methyl Methacrylate	17.04	100	1825	0.184 ng	#	1
51) n-Heptane	17.20	71	62219	2.351 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.99	58	31548	1.468 ng		92
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.76	97	791	N.D.		
58) Toluene	19.28	91	1801372	17.992 ng		100
59) 2-Hexanone	19.59	43	35957	0.691 ng	#	55
60) Dibromochloromethane	19.82	129	4823	0.226 ng		98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	76296	1.344 ng		86
63) n-Octane	20.56	57	22749	1.019 ng		86
64) Tetrachloroethene	20.76	166	15467	0.623 ng		97
65) Chlorobenzene	21.65	112	2976	N.D.		
66) Ethylbenzene	22.09	91	370204	3.425 ng		98
67) m- & p-Xylenes	22.30	91	918381	10.717 ng		99
68) Bromoform	22.41	173	21962	1.183 ng		100
69) Styrene	22.77	104	44607	0.704 ng		94
70) o-Xylene	22.92	91	359424	4.169 ng		98
71) n-Nonane	23.17	43	35048m	0.675 ng		
72) 1,1,2,2-Tetrachloroethane	22.91	83	239	N.D.		
74) Cumene	23.66	105	33777	0.302 ng		98
75) alpha-Pinene	24.15	93	614460	11.142 ng		99
76) n-Propylbenzene	24.28	91	137525	0.995 ng		96
77) 3-Ethyltoluene	24.40	105	395890	3.781 ng		98
78) 4-Ethyltoluene	24.46	105	179240	1.703 ng		99
79) 1,3,5-Trimethylbenzene	24.55	105	150652	1.731 ng		99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:36:08 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

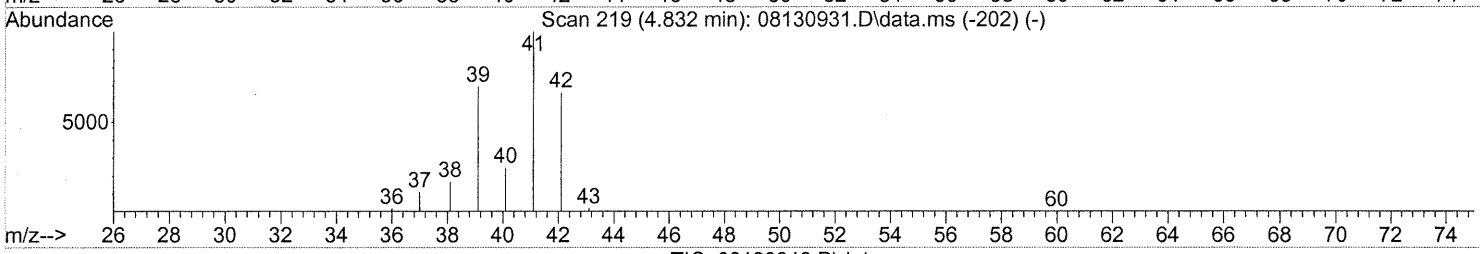
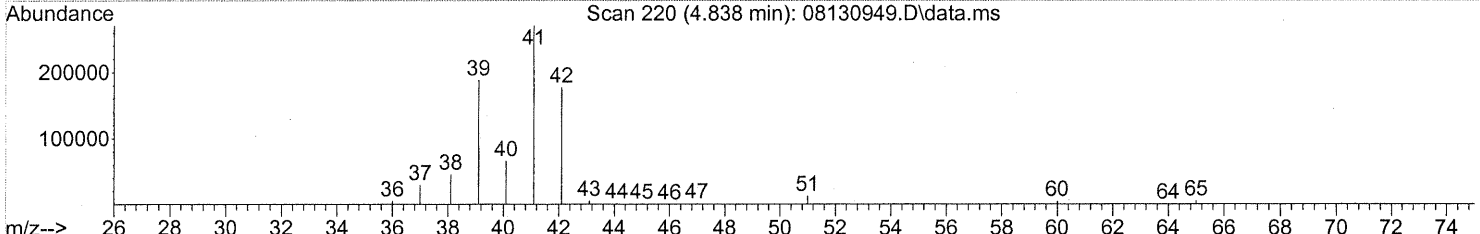
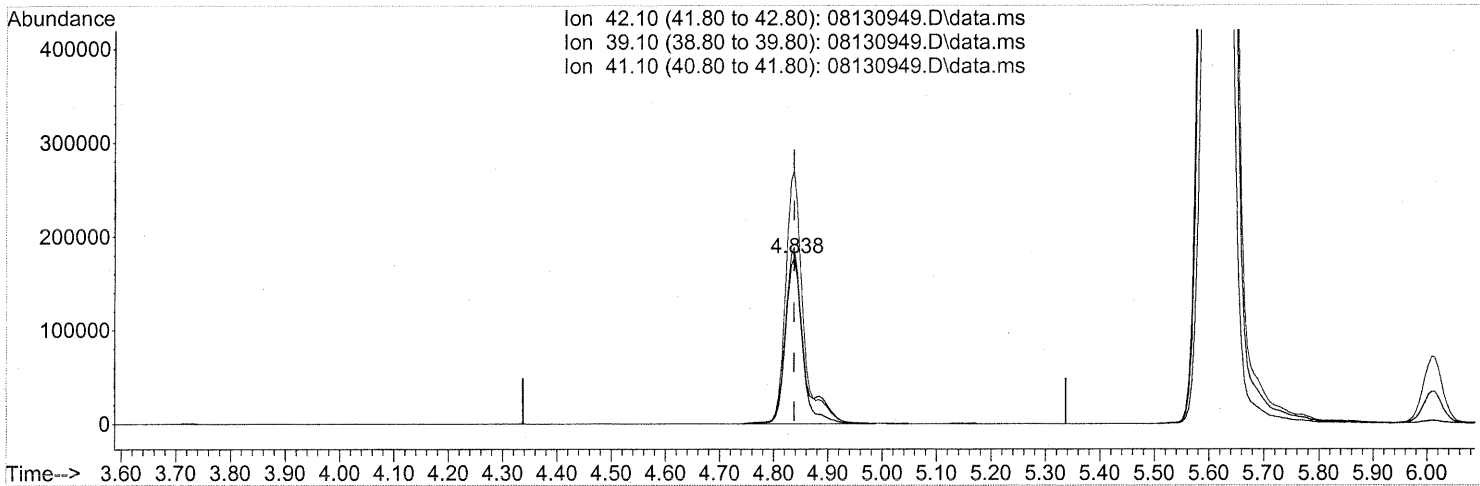
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.74	118	1272	N.D.		
81) 2-Ethyltoluene	24.79	105	132706	1.227 ng		98
82) 1,2,4-Trimethylbenzene	25.05	105	562379	6.085 ng		89
83) n-Decane	25.15	57	51402	0.956 ng		82
84) Benzyl Chloride	25.23	91	347	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	2915	0.061 ng		93
86) 1,4-Dichlorobenzene	25.33	146	2915	0.057 ng		93
87) sec-Butylbenzene	25.38	105	7295	0.060 ng		95
88) 4-Isopropyltoluene (p-...	25.56	119	97195	0.833 ng		95
89) 1,2,3-Trimethylbenzene	25.57	105	126697	1.356 ng		96
90) 1,2-Dichlorobenzene	25.33	146	2915	0.061 ng		93
91) d-Limonene	25.74	68	495892	13.114 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	44184	0.795 ng	#	77
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	99223	0.800 ng		94
96) n-Dodecane	27.89	57	44954	0.722 ng		98
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	38709	1.228 ng		95
99) tert-Butylbenzene	25.48	119	14605	0.159 ng		95
100) n-Butylbenzene	26.06	91	41989	0.433 ng	#	63

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(2) Propene (T)

4.838min (-0.000) 12.02ng

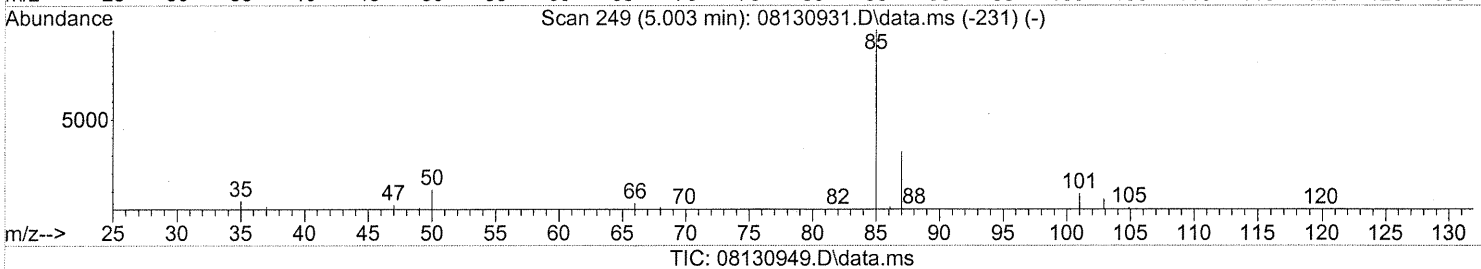
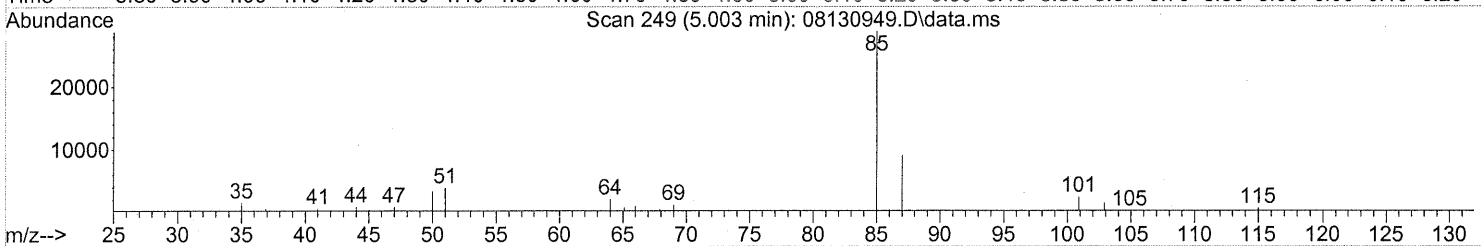
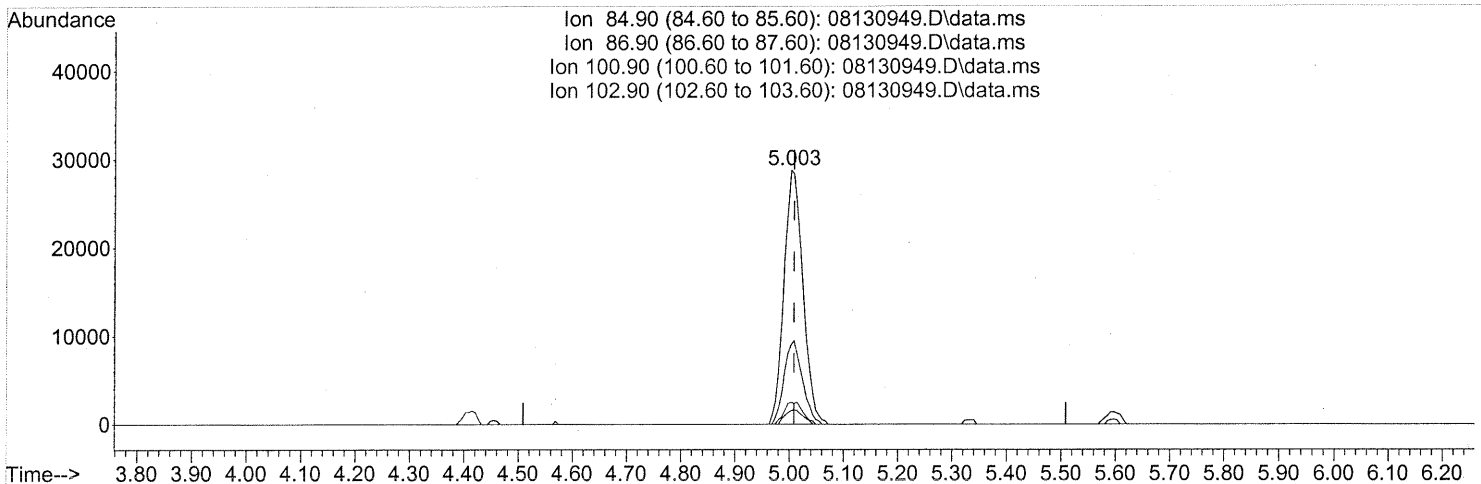
response 380877

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	118.43
41.10	152.70	159.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.003min (-0.006) 1.53ng

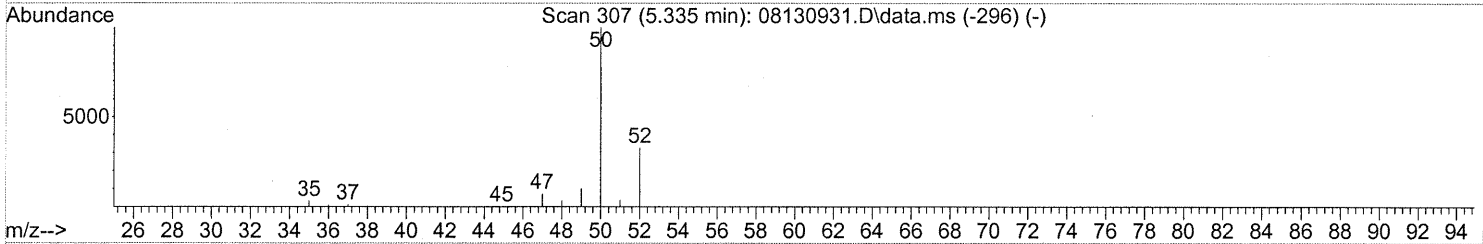
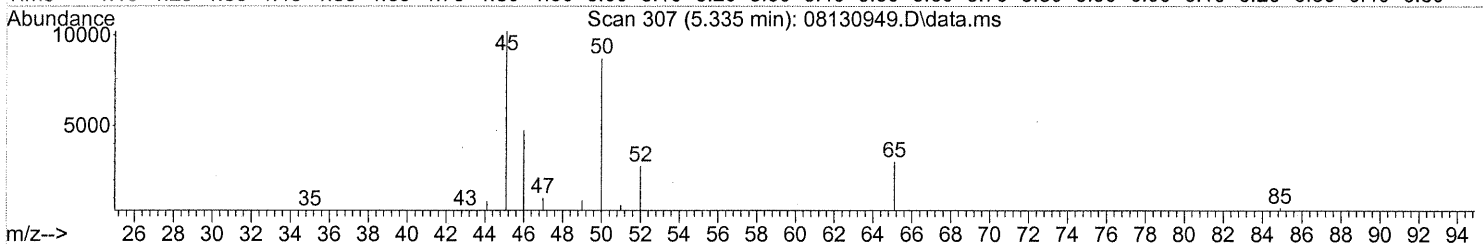
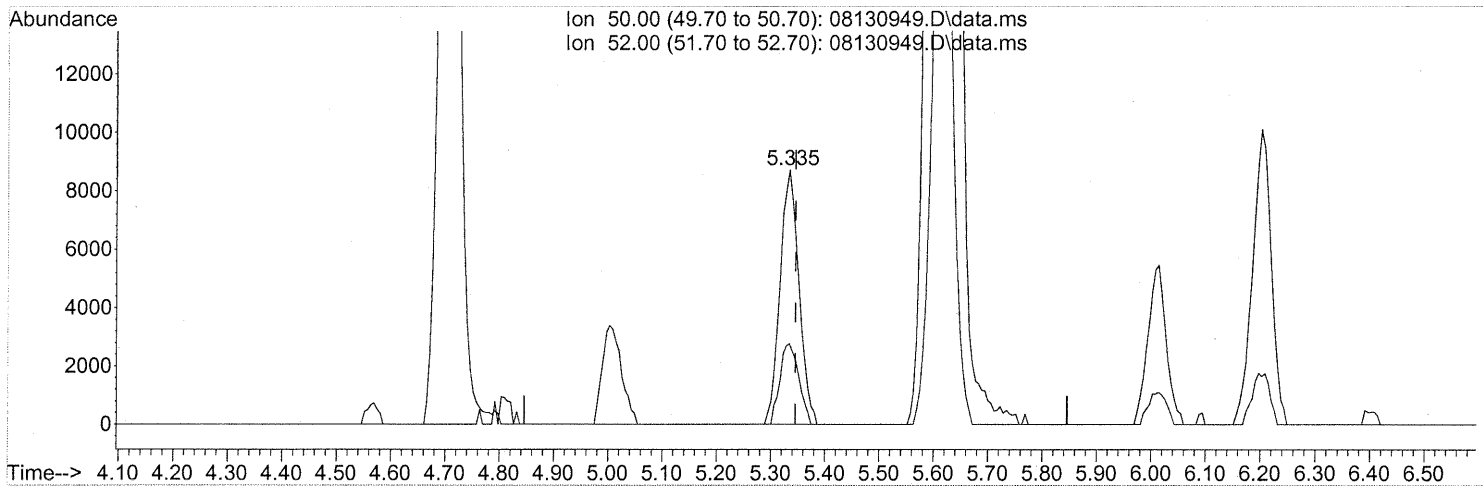
response 69294

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.69
100.90	9.10	8.43
102.90	5.50	5.15

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
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 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



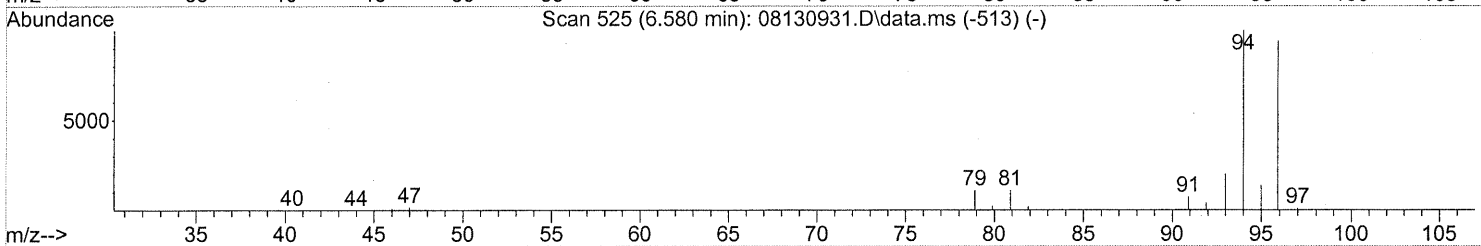
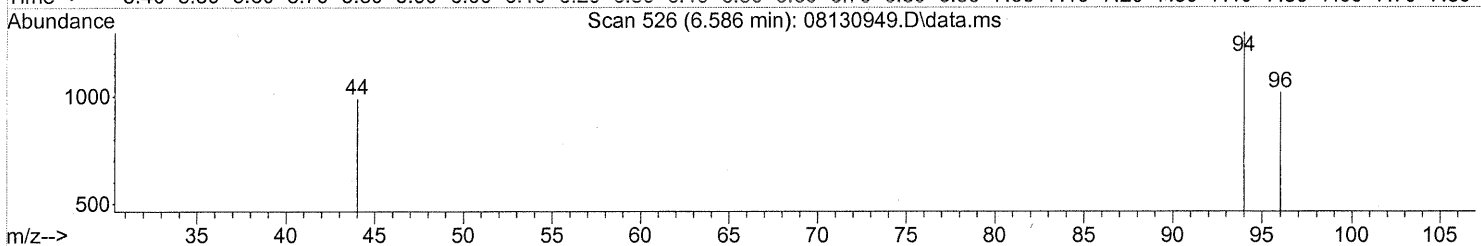
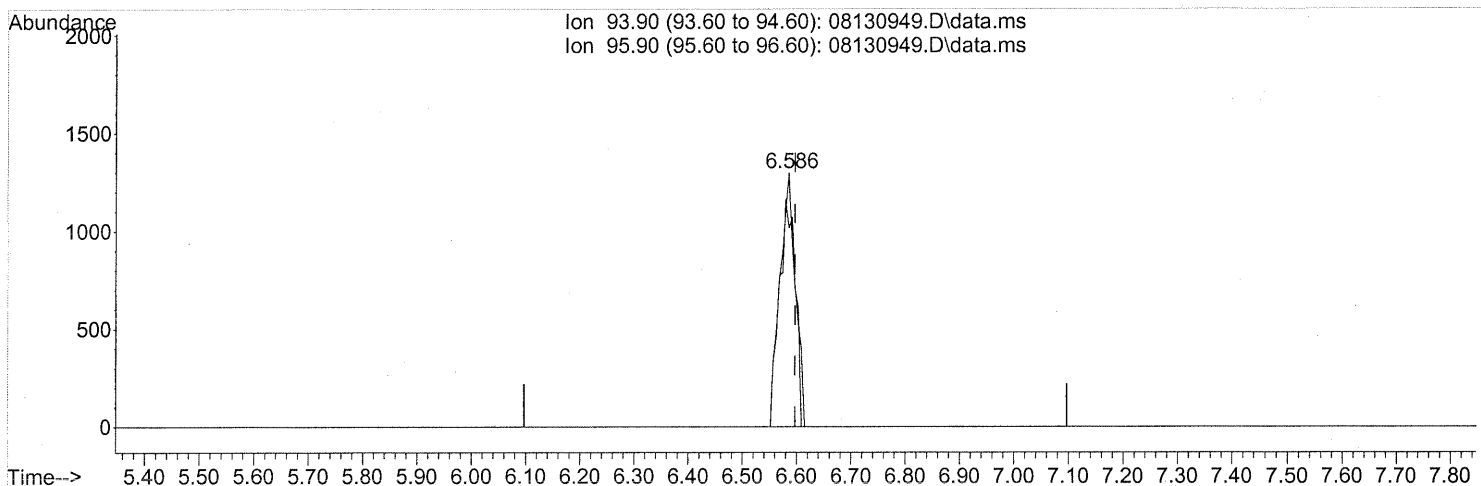
(4) Chloromethane (T)
 5.335min (-0.011) 0.50ng
 response 21095

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
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 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
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TIC: 08130949.D\data.ms

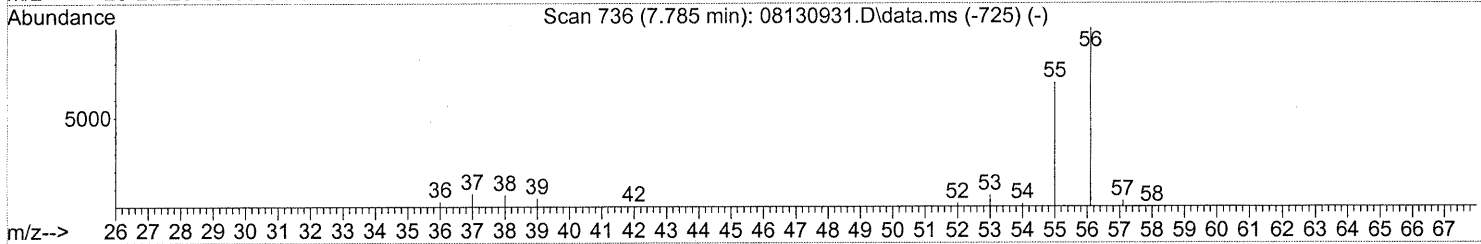
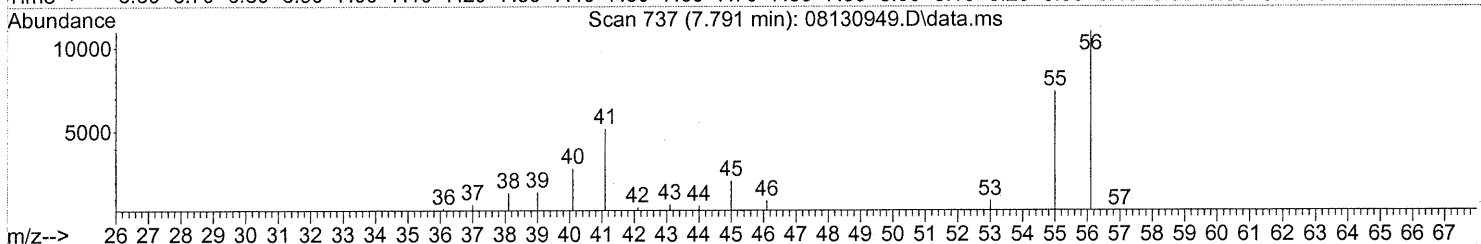
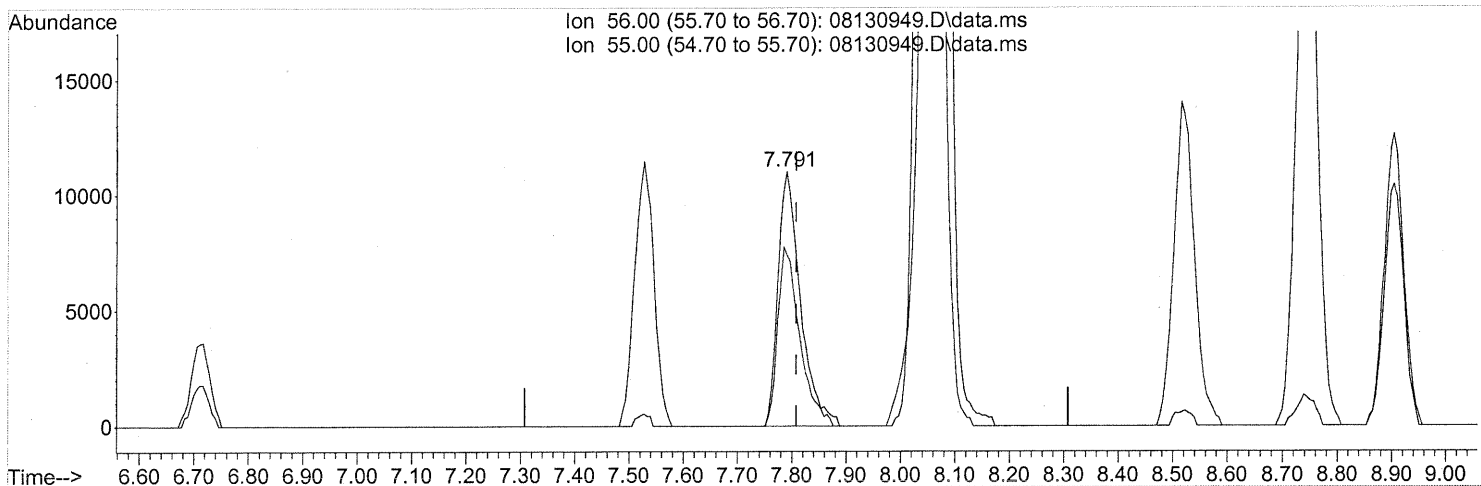
(8) Bromomethane (T)
 6.586min (-0.011) 0.11ng
 response 2444

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	101.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
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 Misc : Environmental H & E 100675
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TIC: 08130949.D\data.ms

(12) Acrolein (T)

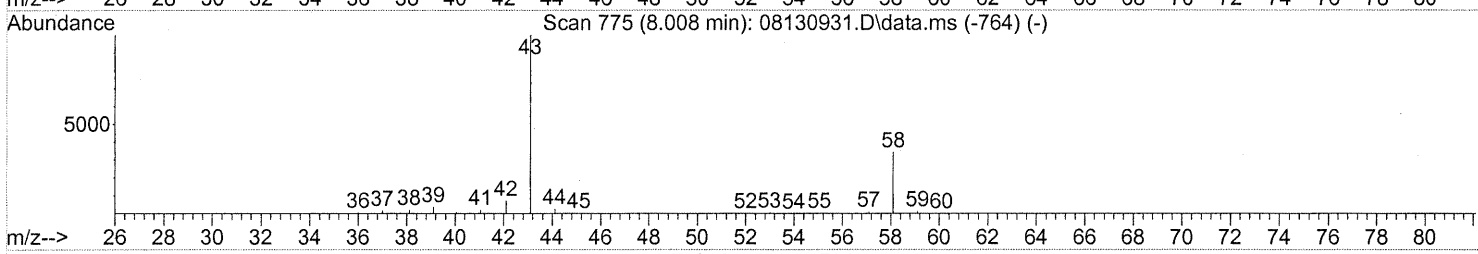
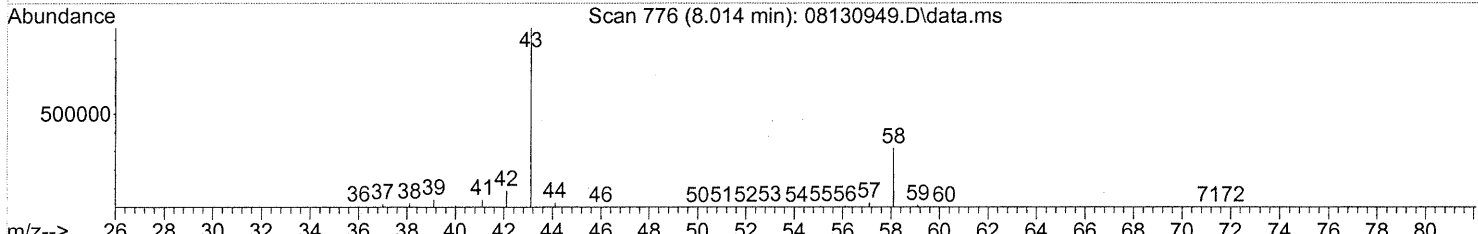
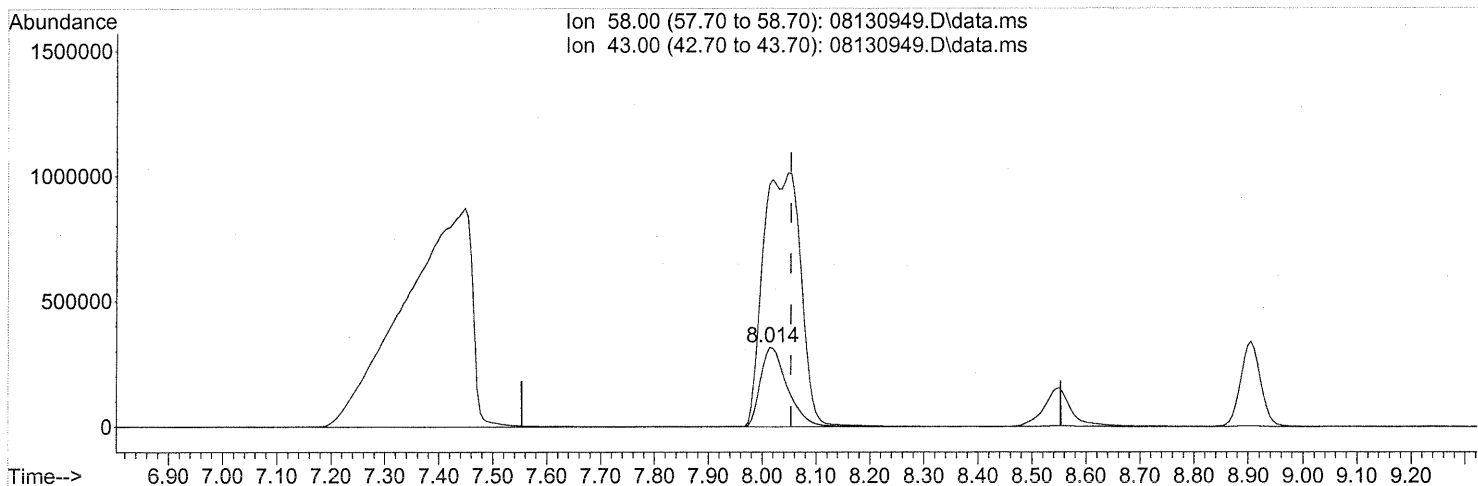
7.791min (-0.017) 2.43ng
 response 31506

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
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 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 08130949.D\data.ms

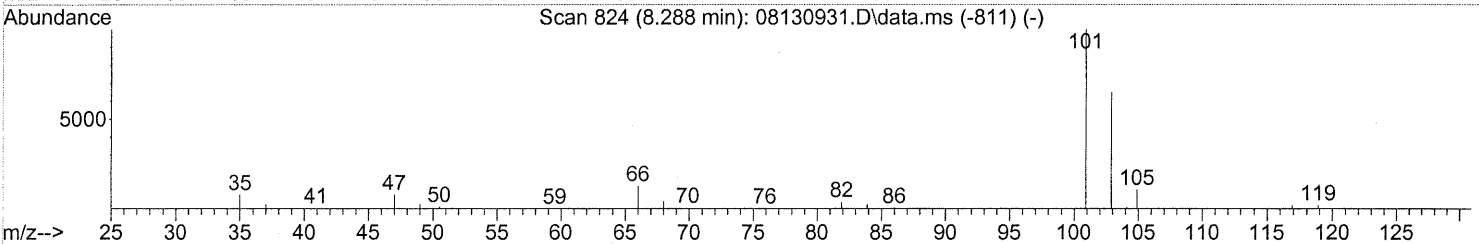
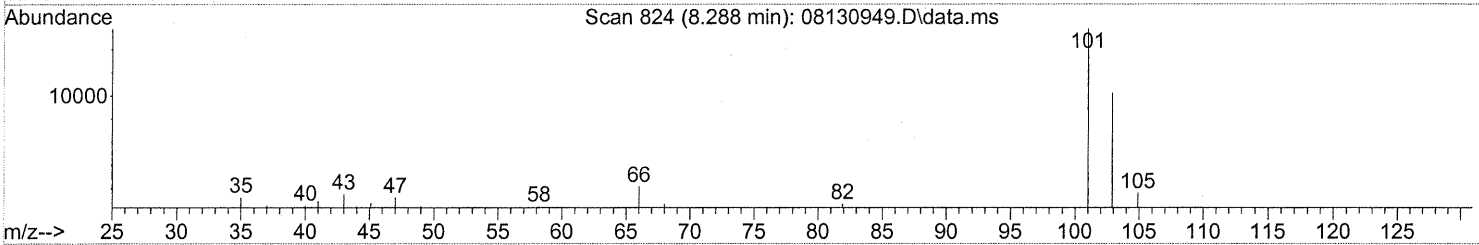
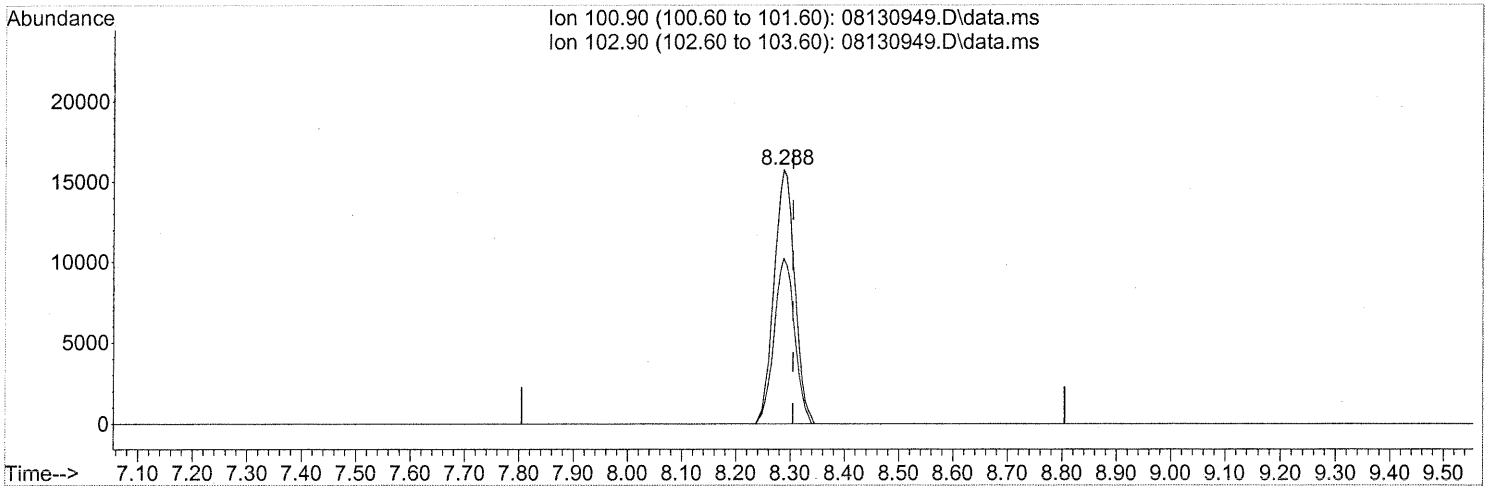
(13) Acetone (T)
 8.014min (-0.040) 54.21ng
 response 1096532

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 1.07ng

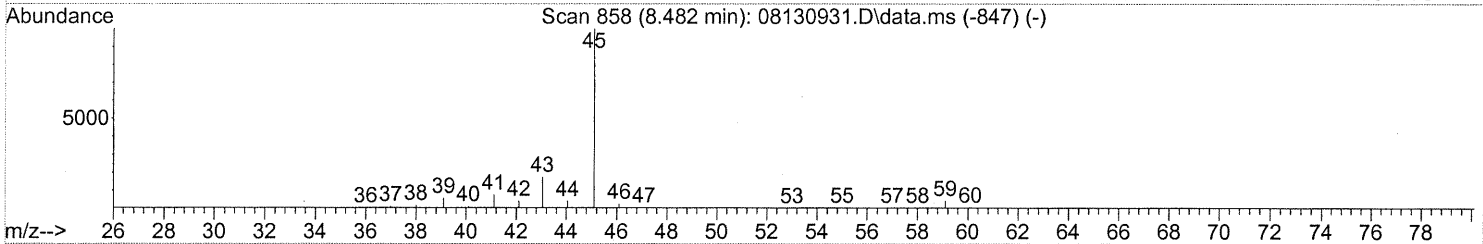
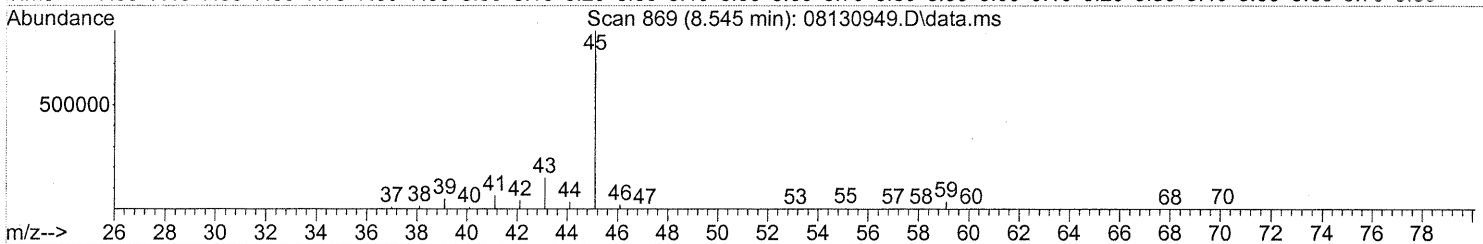
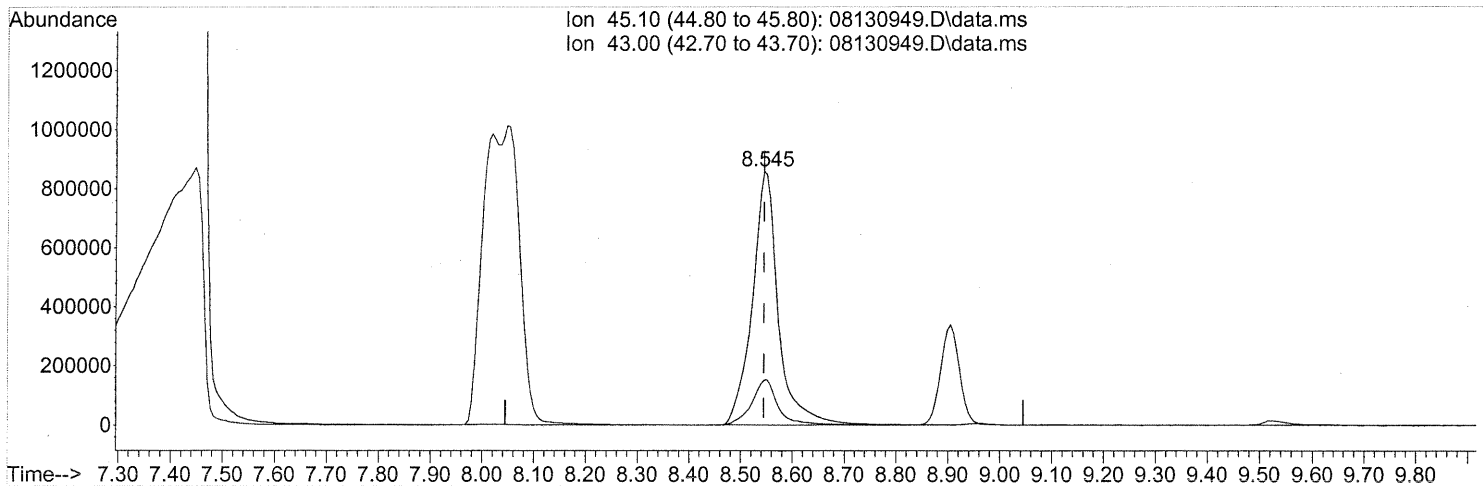
response 41433

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 08130949.D
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 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 Response via : Initial Calibration



TIC: 08130949.D\data.ms

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

8.545min (-0.000) 54.14ng

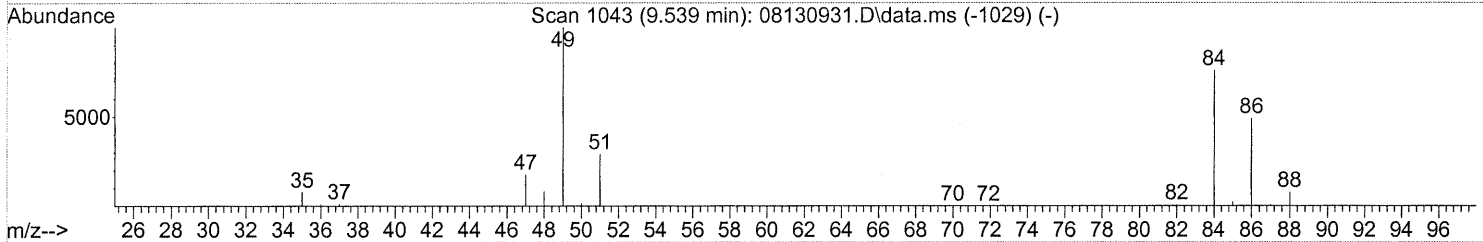
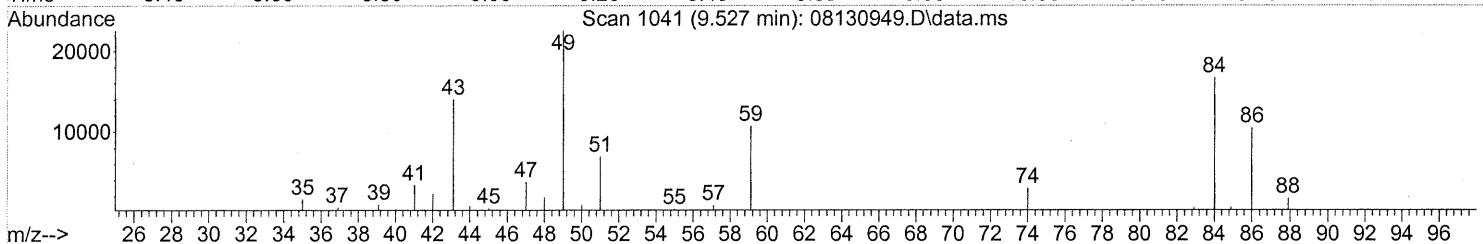
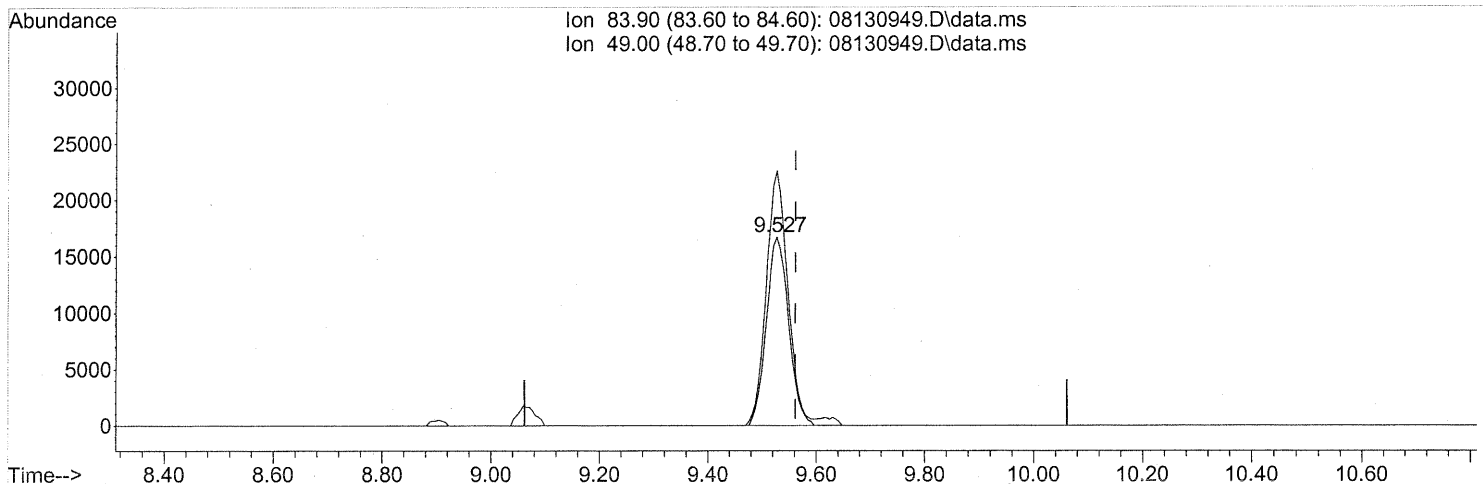
response 2999190

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(19) Methylene Chloride (T)

9.527min (-0.034) 1.89ng

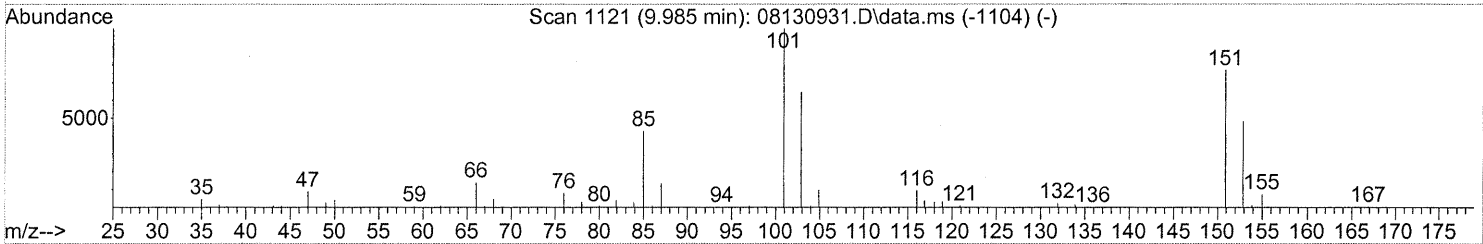
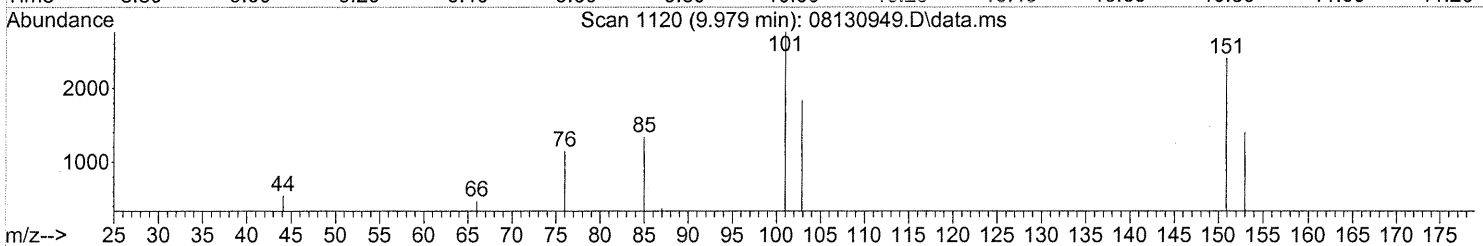
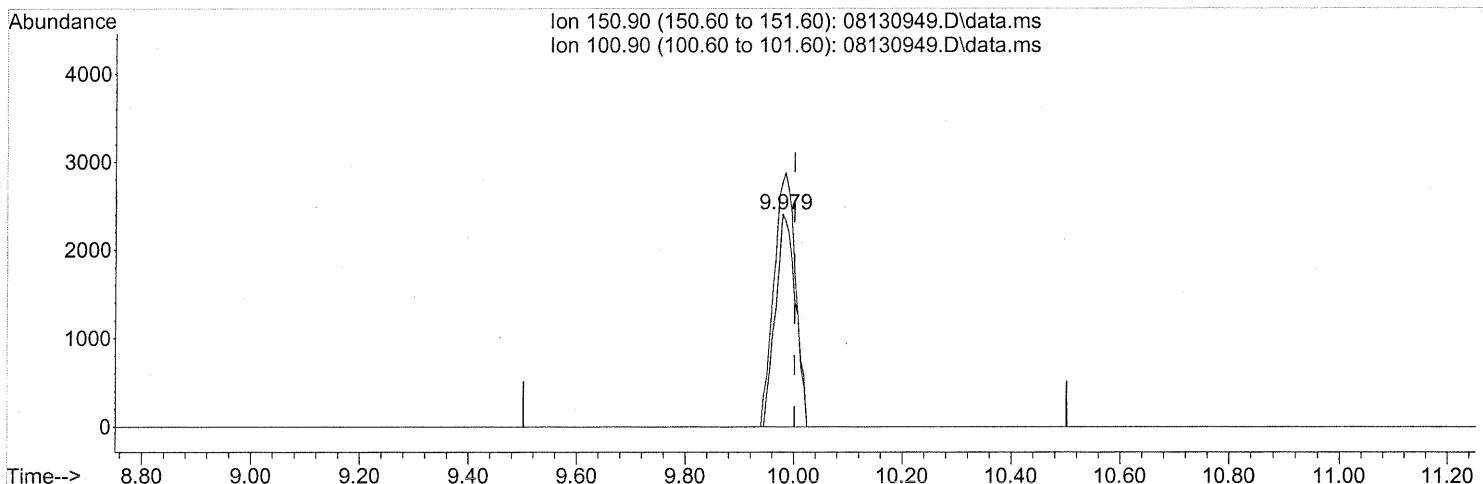
response 47614

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	134.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.36ng

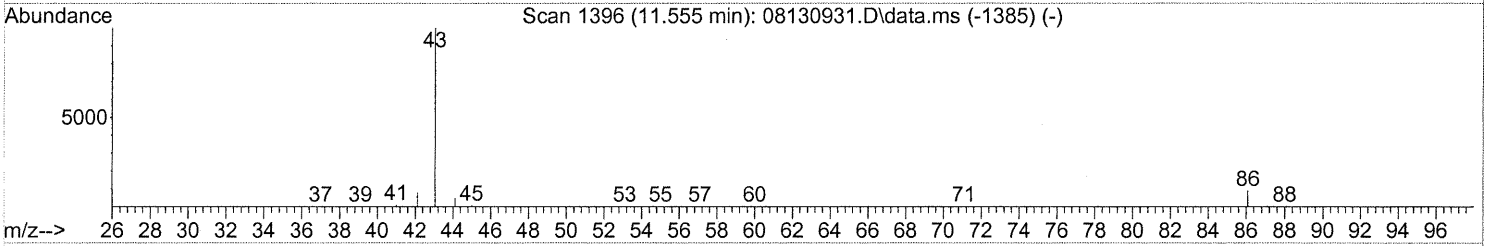
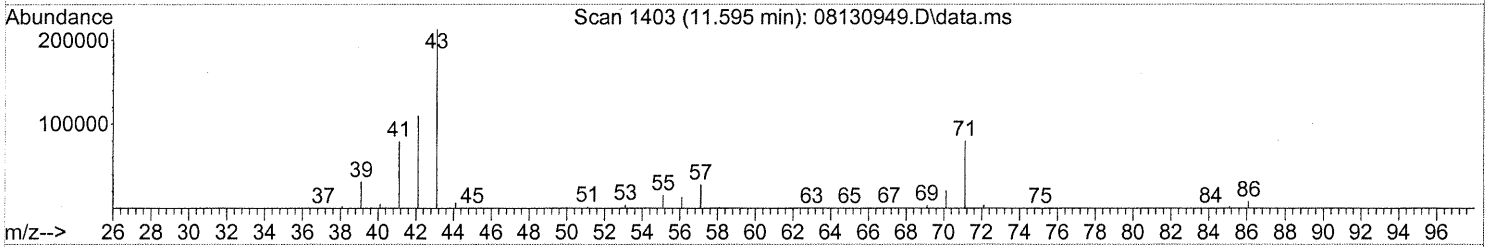
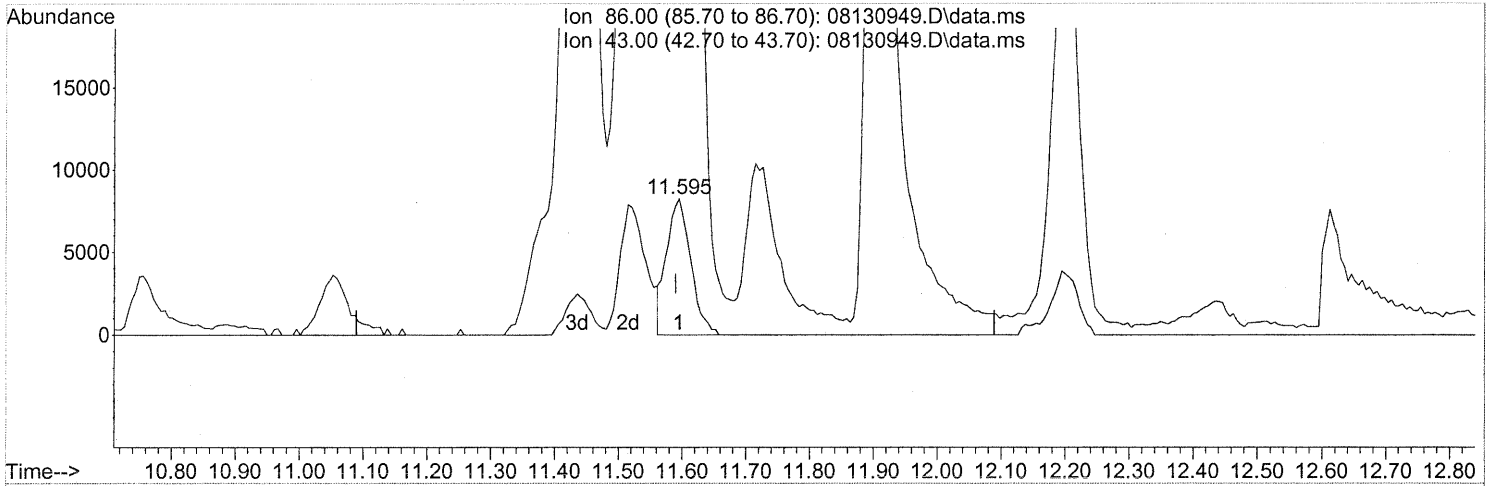
response 6154

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	129.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
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Acq On : 14 Aug 2009 19:07
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Misc : Environmental H & E 100675
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130949.D\data.ms

(26) Vinyl Acetate (T)
11.595min (+0.005) 4.95ng
response 21674

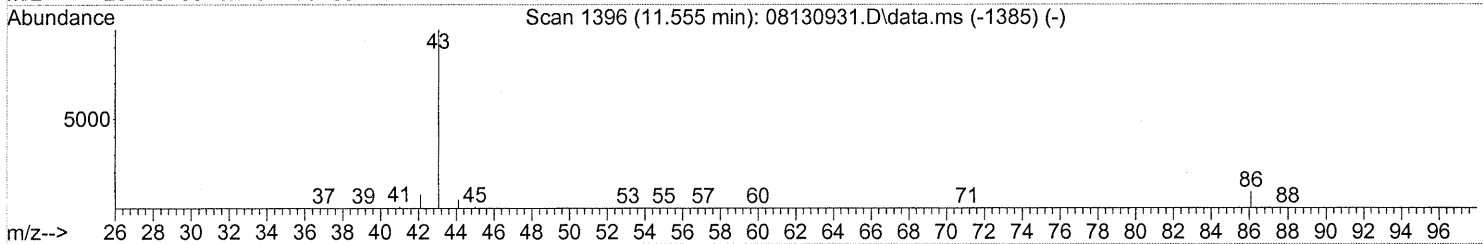
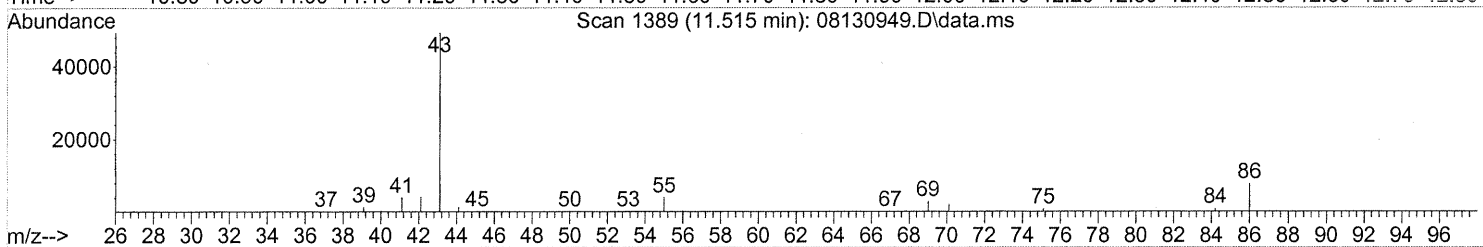
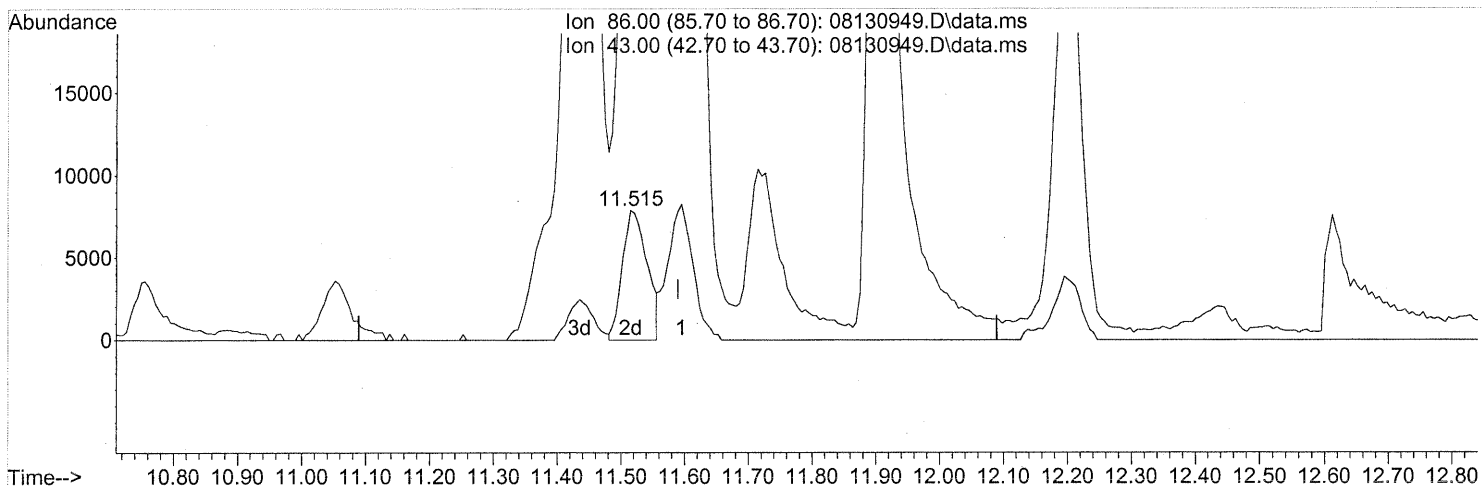
MP

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2753.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
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 Acq On : 14 Aug 2009 19:07
 Operator : EM
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 ALS Vial : 12 Sample Multiplier: 1

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 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(26) Vinyl Acetate (T)
 11.515min (-0.075) 4.82ng m
 response 21133

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2823.48#
0.00	0.00	0.00
0.00	0.00	0.00

CRL

mp → IC

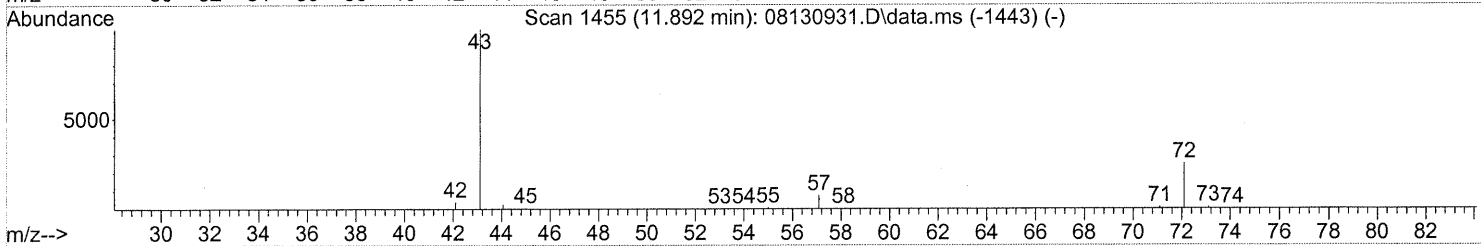
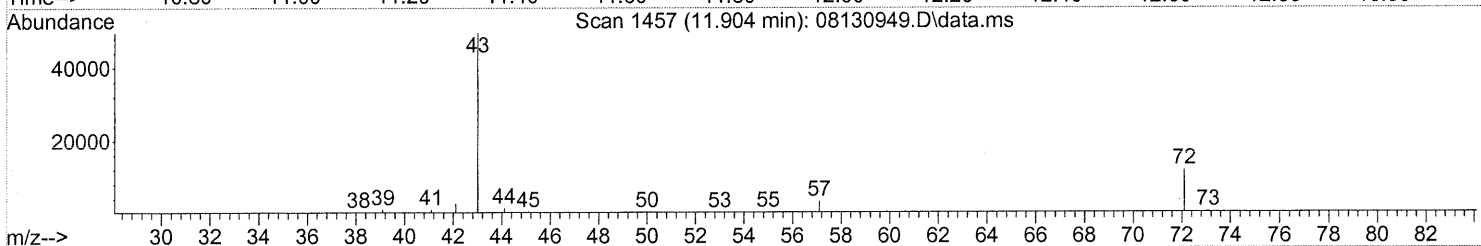
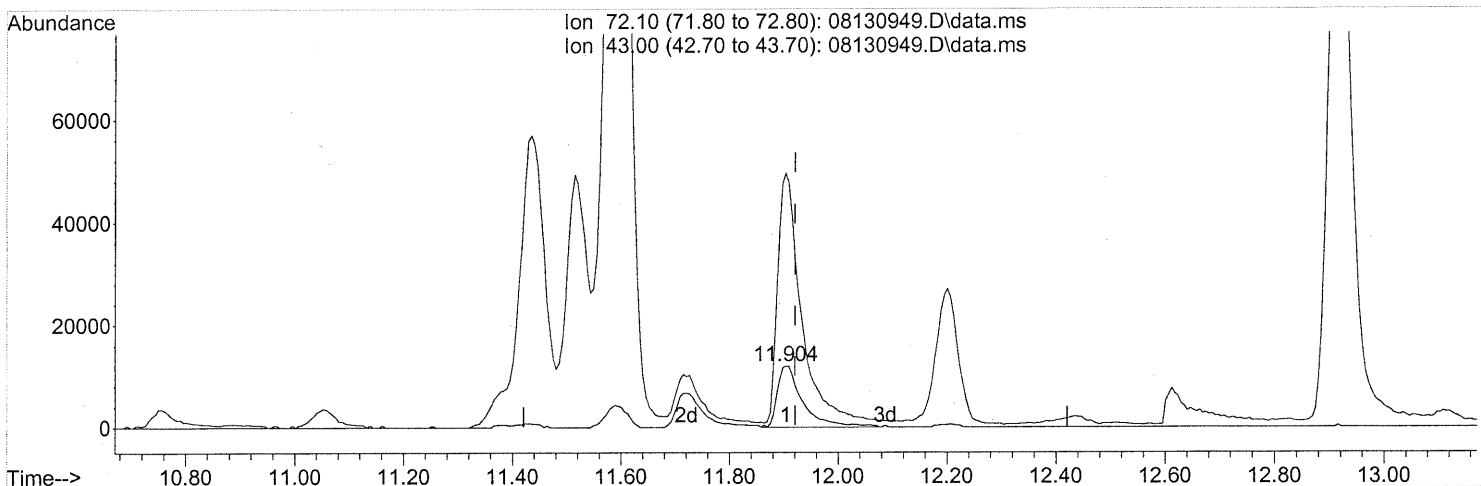
Em 8/17/09

WA 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
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 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

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 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 08130949.D\data.ms

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

11.904min (-0.017) 2.71ng

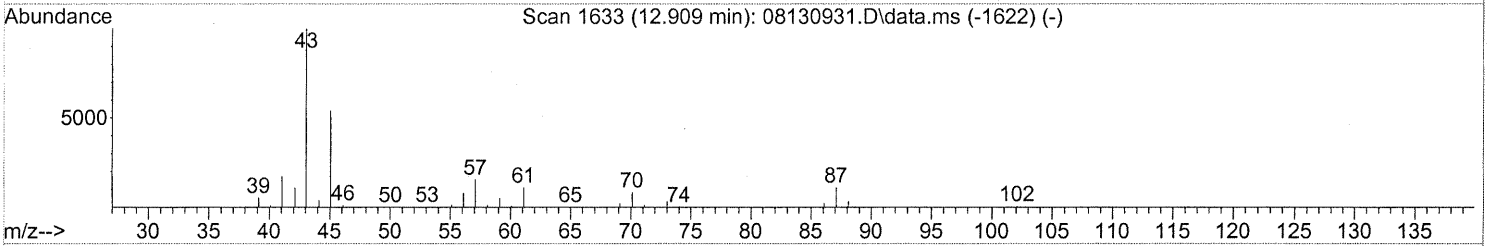
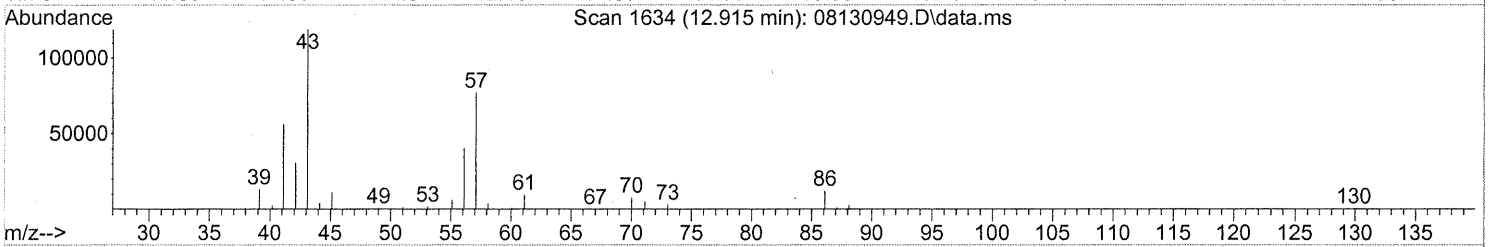
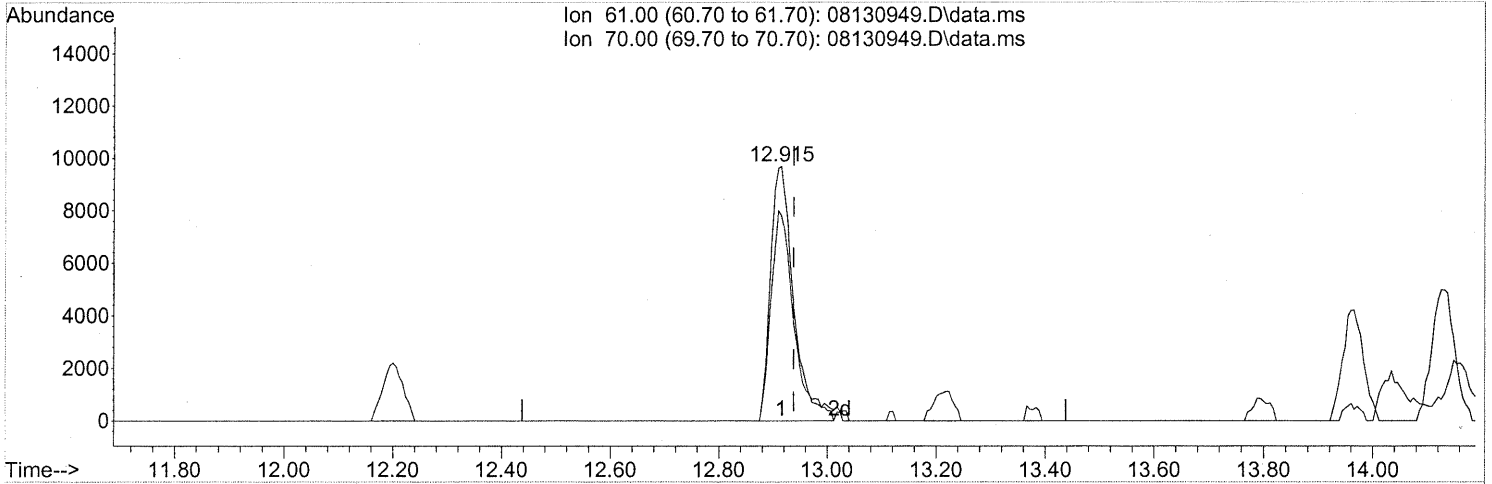
response 38244

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	387.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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TIC: 08130949.D\data.ms

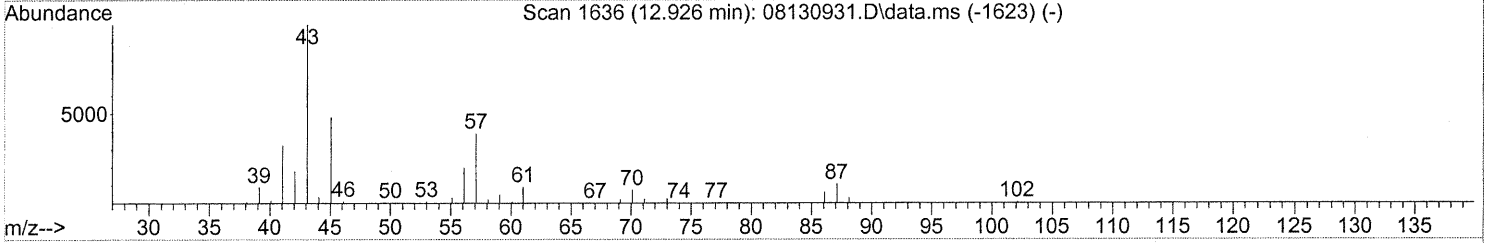
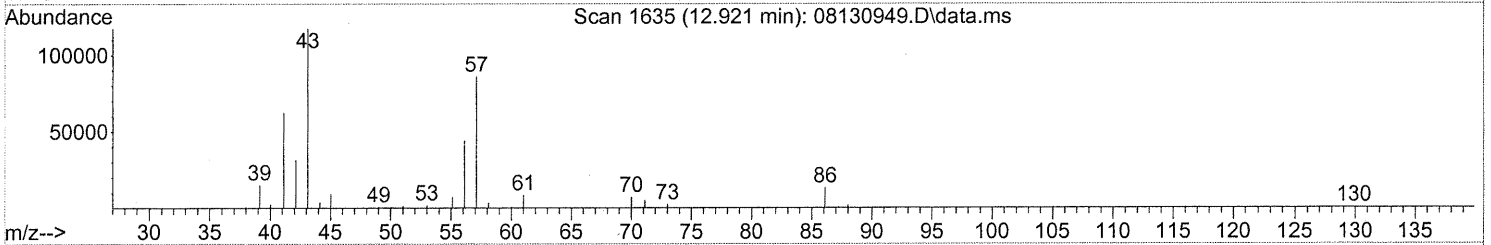
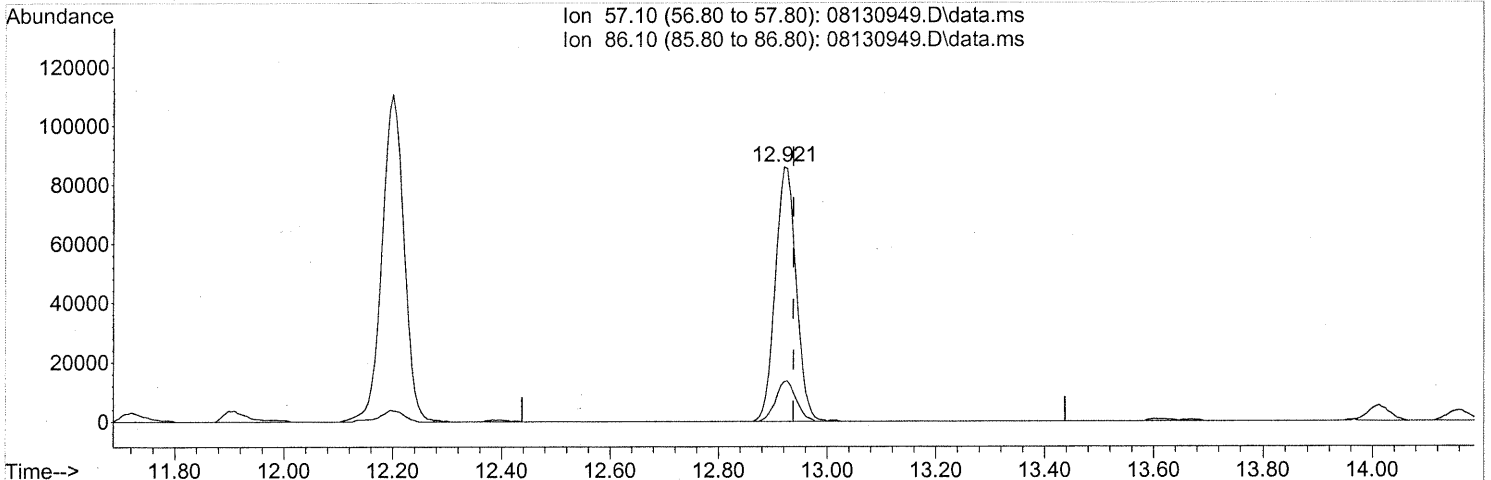
(30) Ethyl Acetate (T)
 12.915min (-0.023) 3.11ng
 response 28467

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	84.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
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TIC: 08130949.D\data.ms

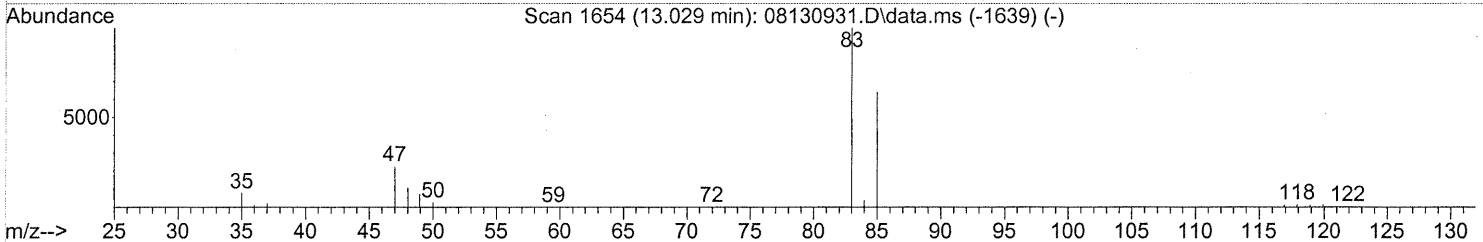
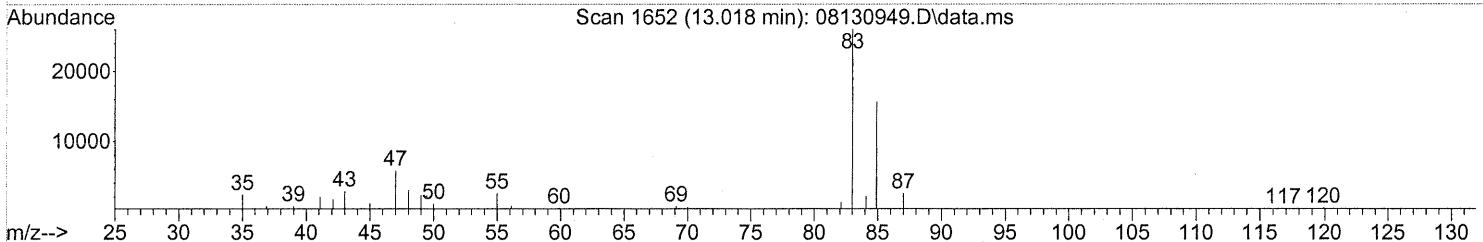
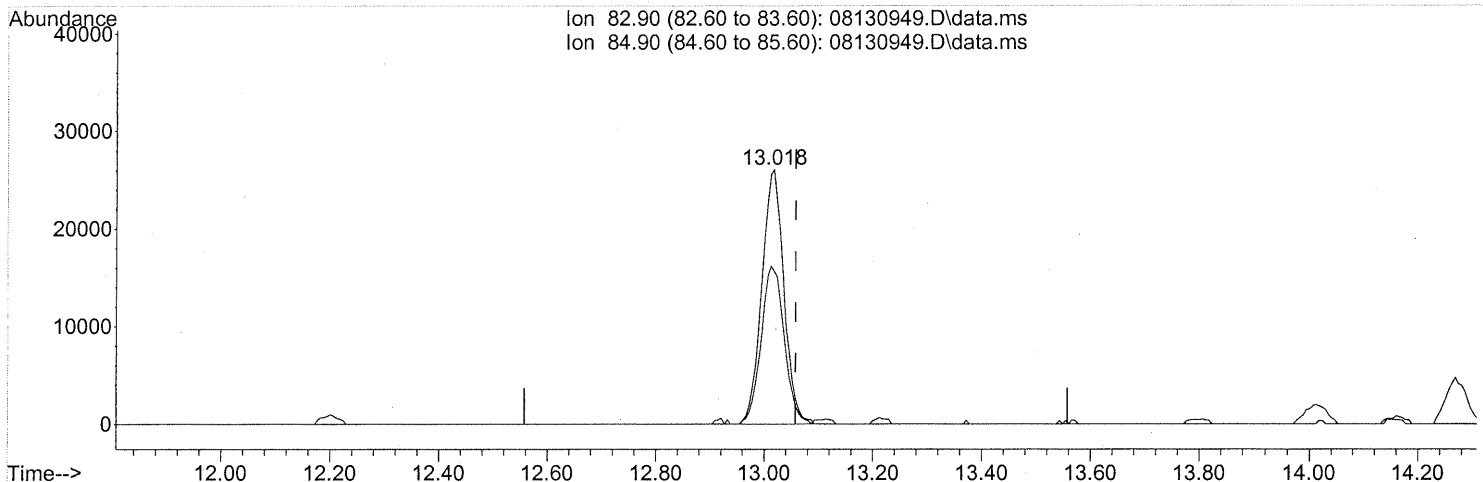
(31) n-Hexane (T)
 12.921min (-0.017) 5.12ng
 response 228382

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

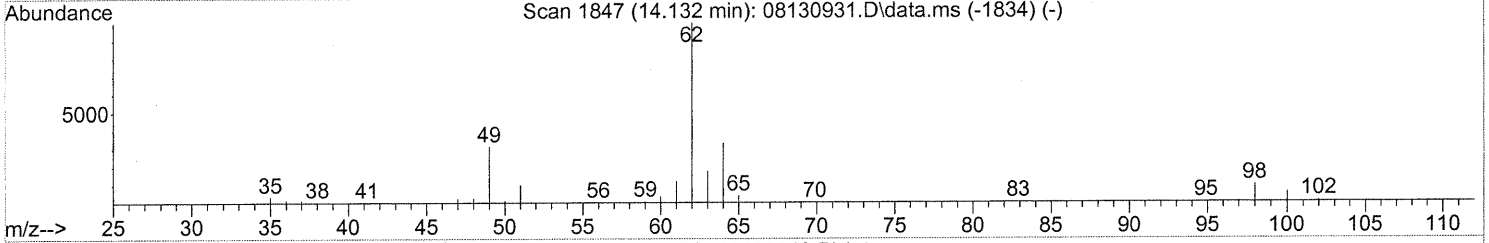
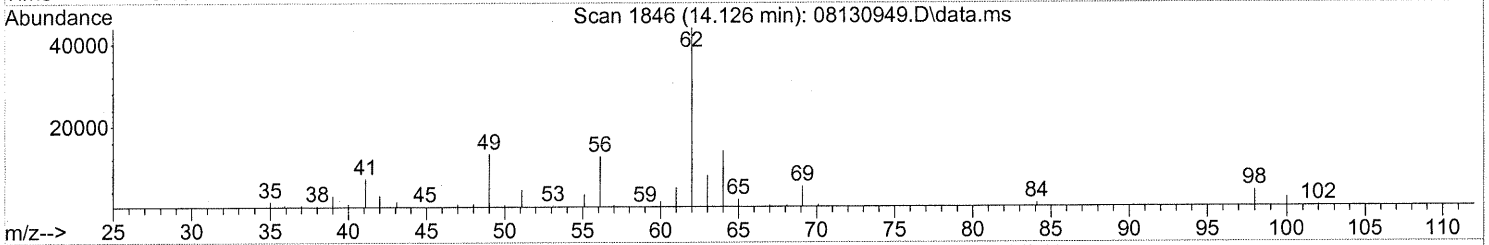
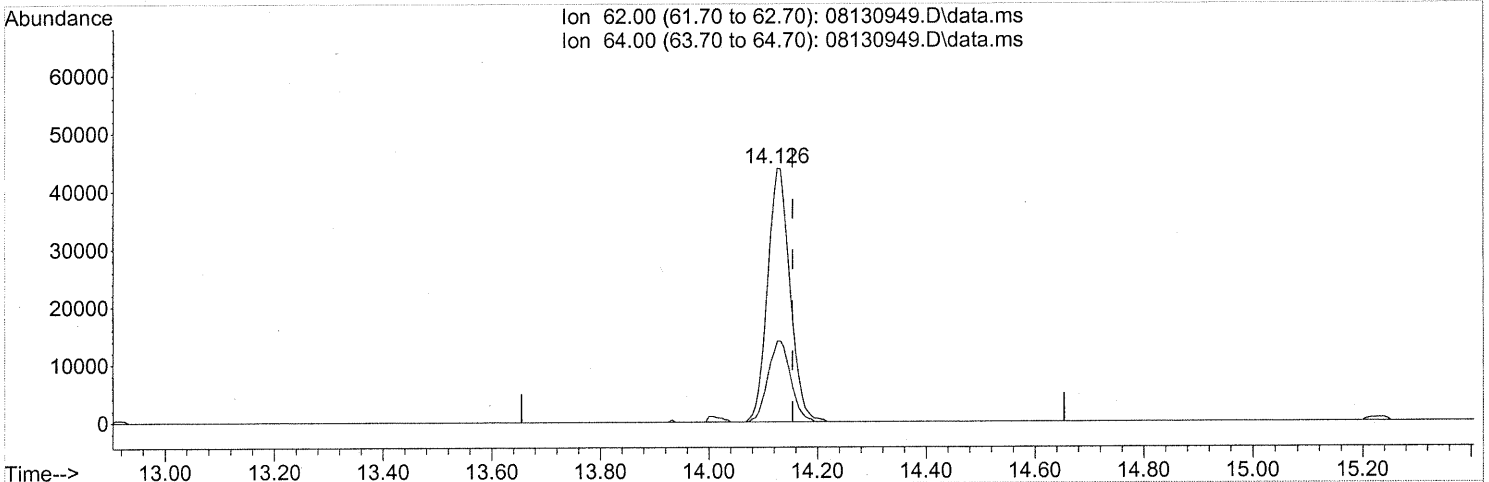
(32) Chloroform (T)
 13.018min (-0.040) 1.97ng
 response 73618

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.029) 4.39ng

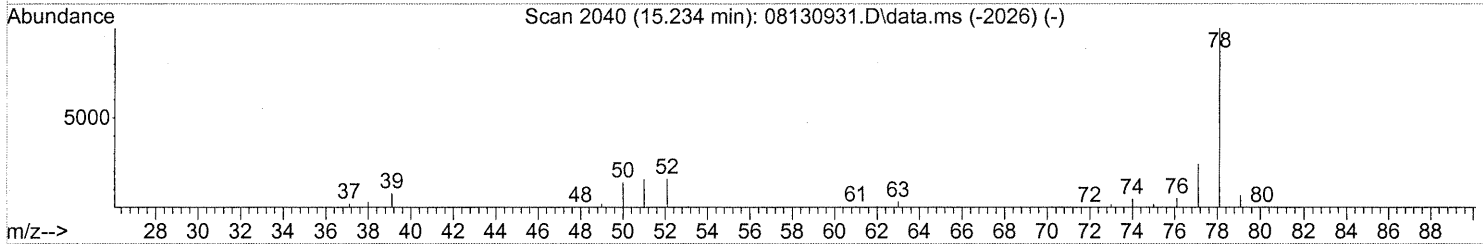
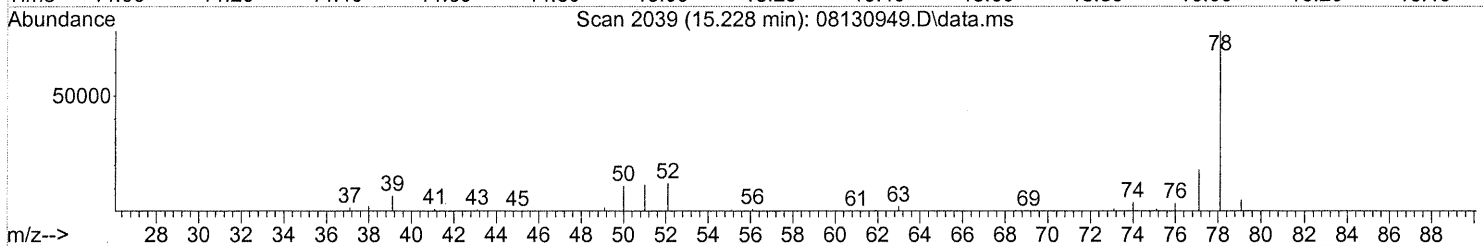
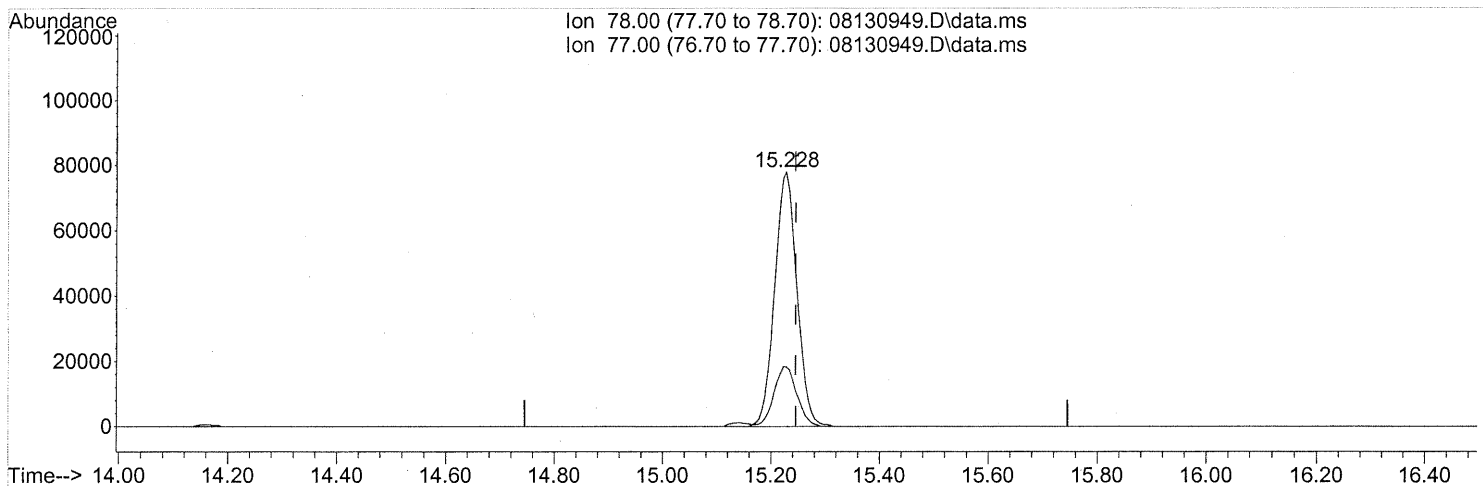
response 125255

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(41) Benzene (T)

15.228min (-0.017) 2.22ng

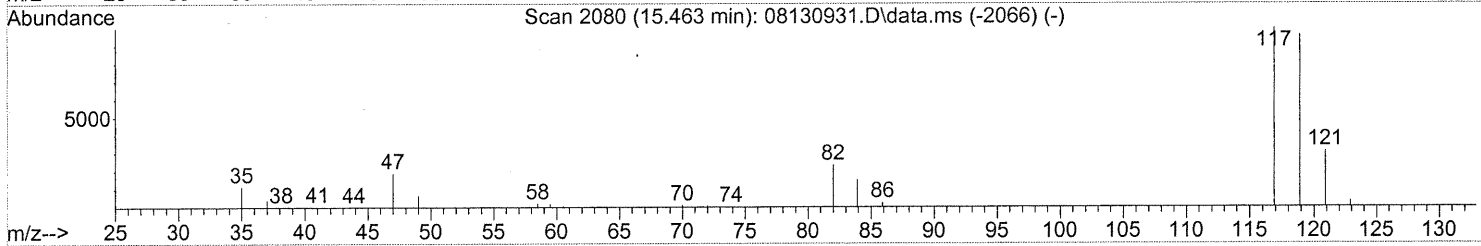
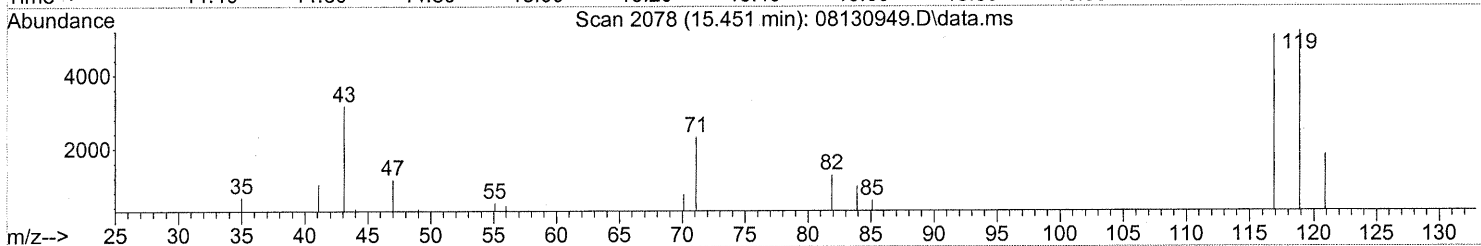
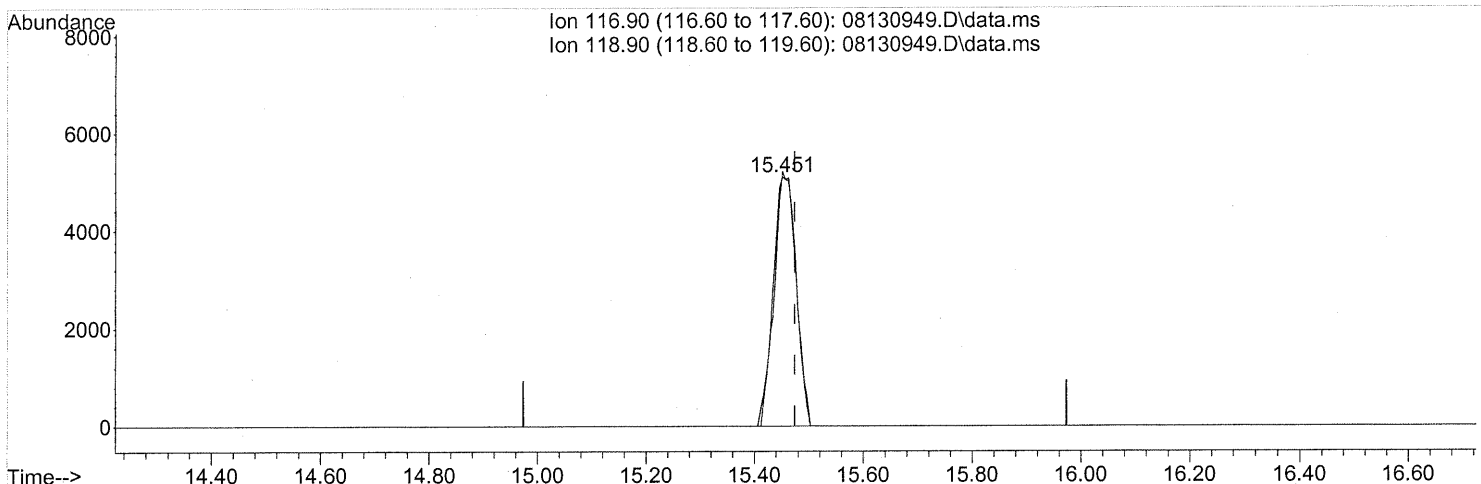
response 220803

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.54ng

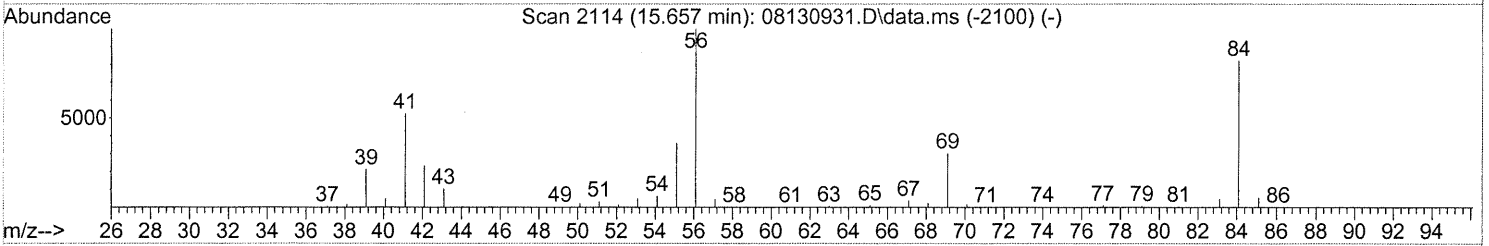
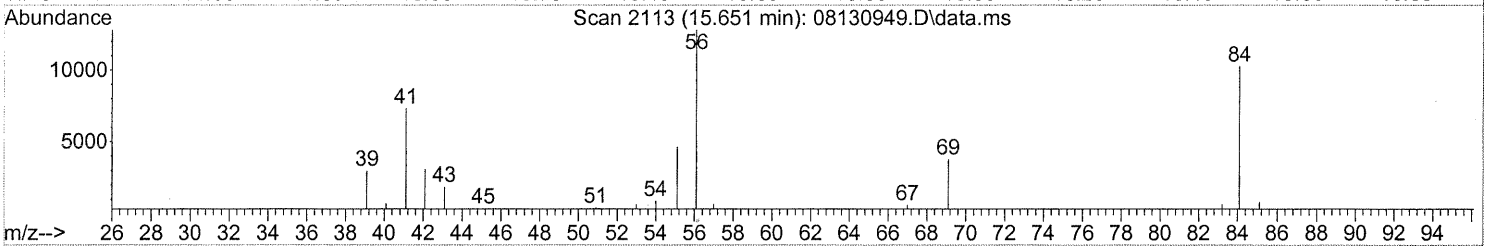
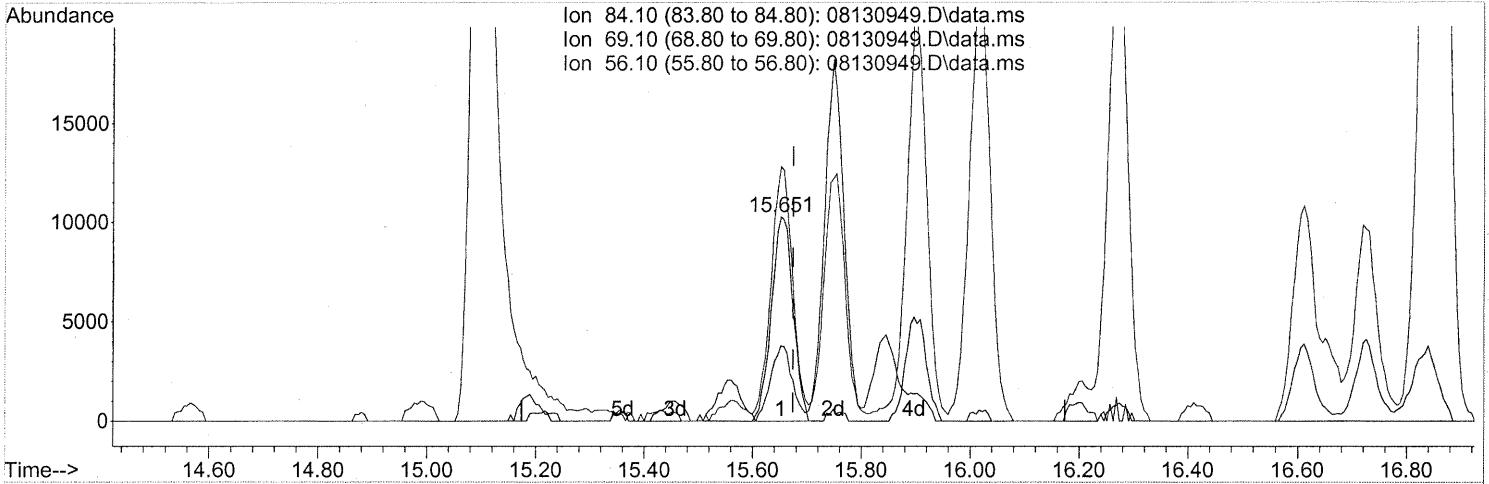
response 15098

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	94.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

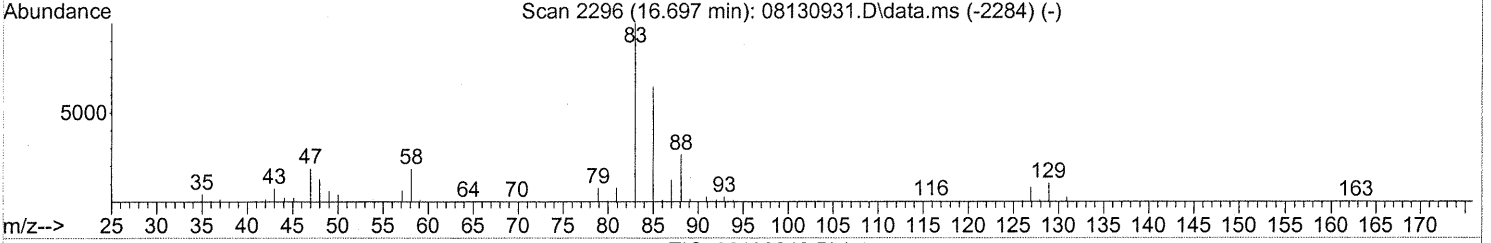
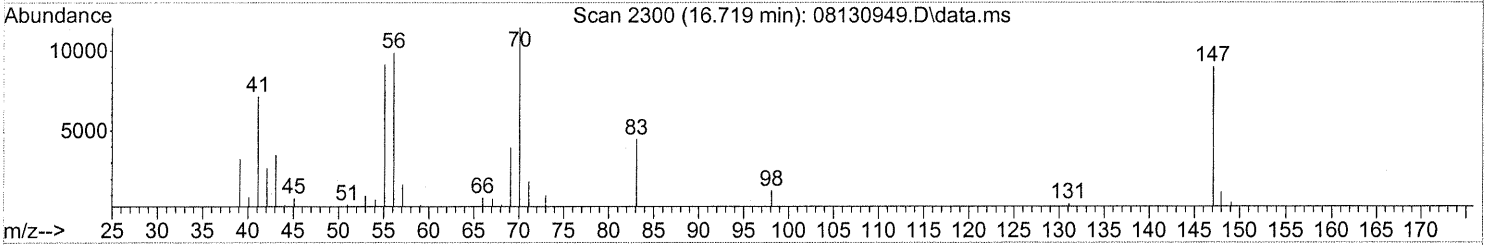
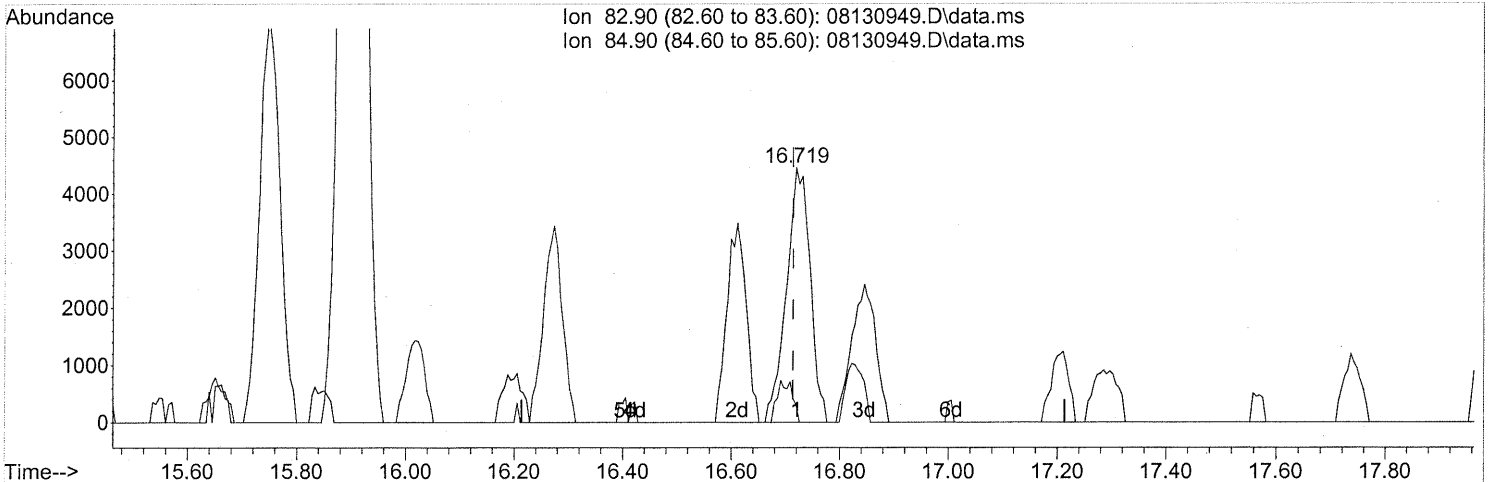
(43) Cyclohexane (T)
 15.651min (-0.023) 0.73ng
 response 28232

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.95
56.10	107.30	125.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(46) Bromodichloromethane (T)

16.719min (+0.006) 0.47ng

response 13569

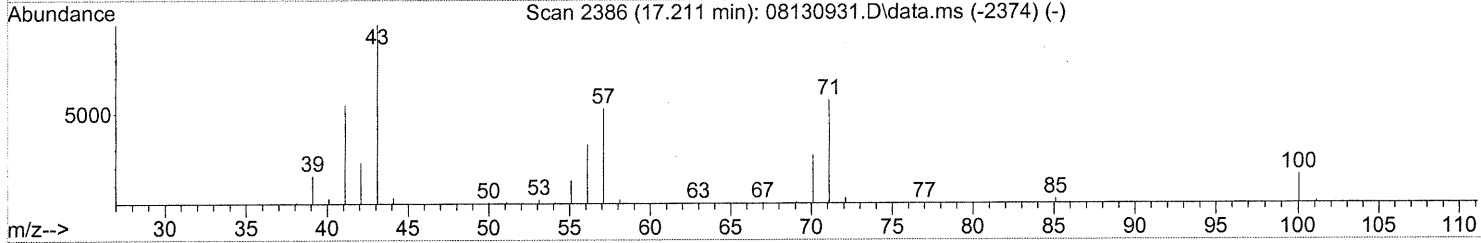
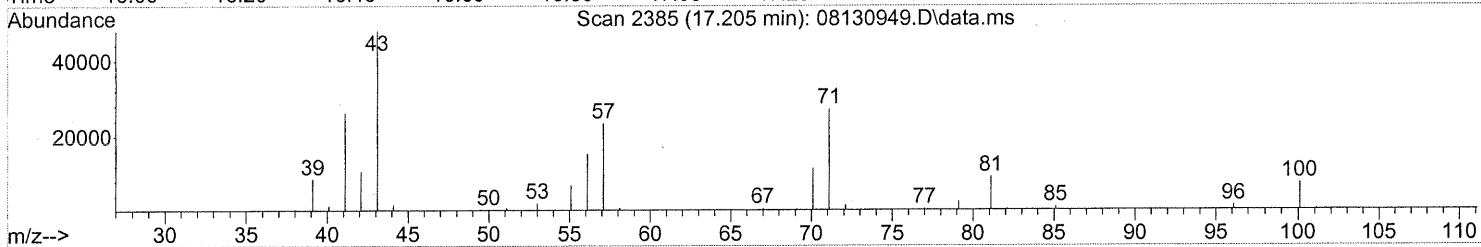
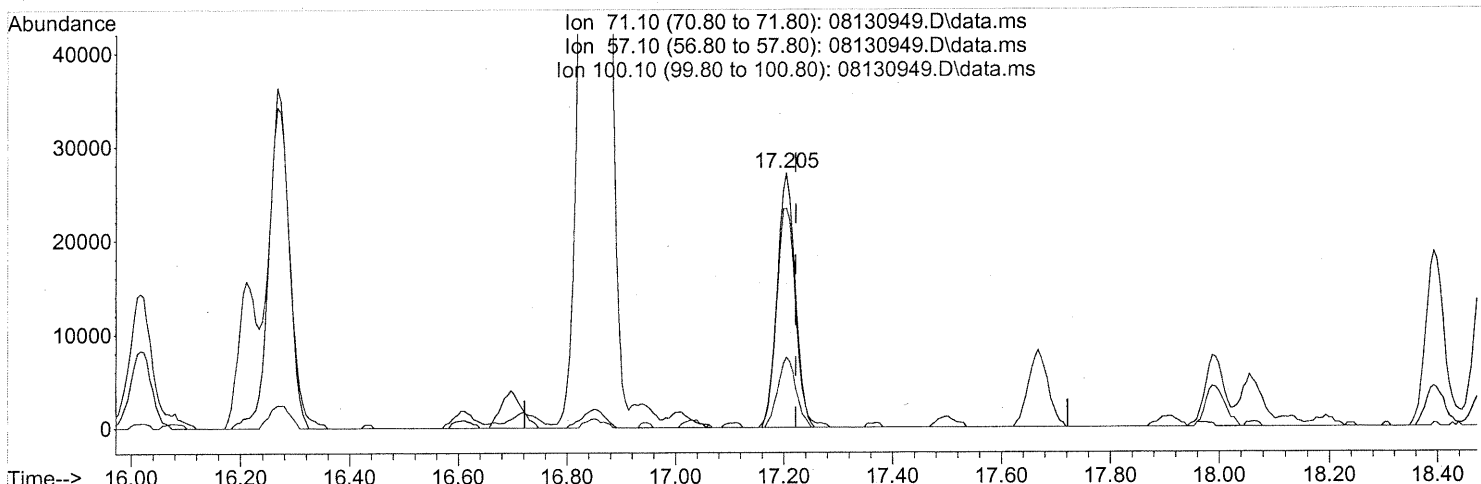
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/17/09
17 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

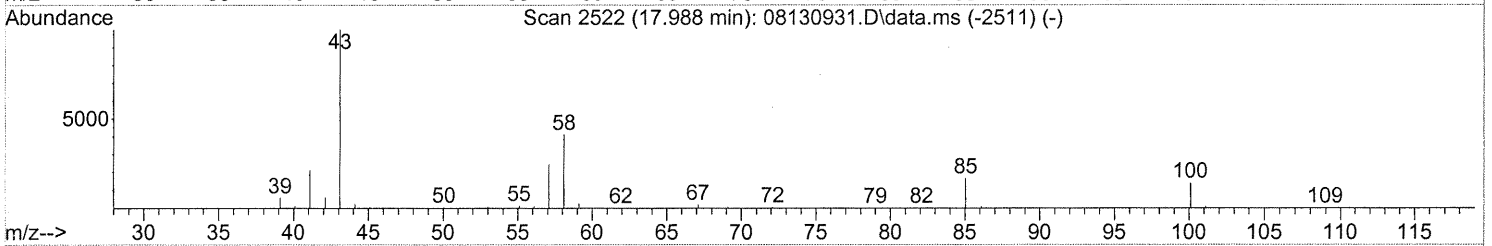
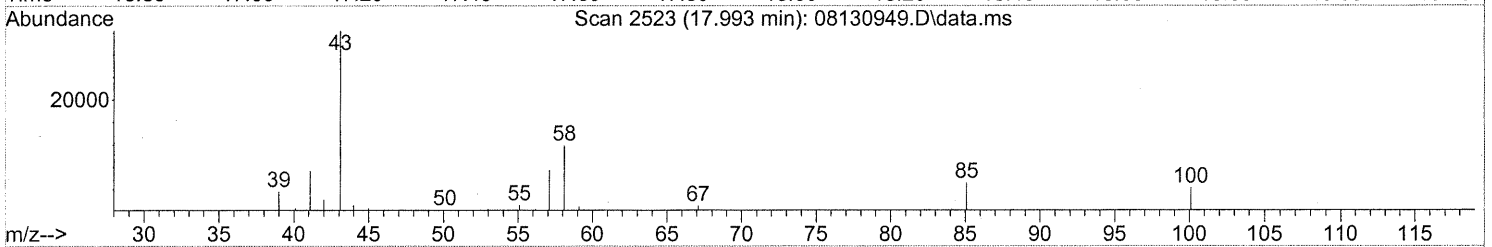
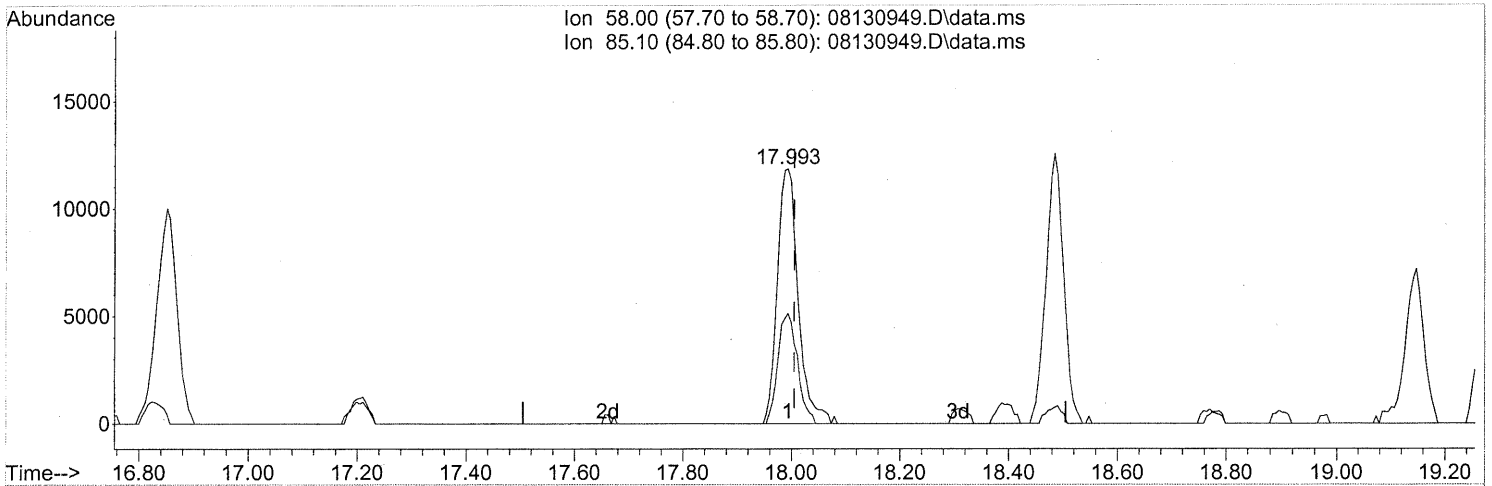
(51) n-Heptane (T)
 17.205min (-0.017) 2.35ng
 response 62219

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	91.79
100.10	30.70	27.69
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

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

17.993min (-0.012) 1.47ng

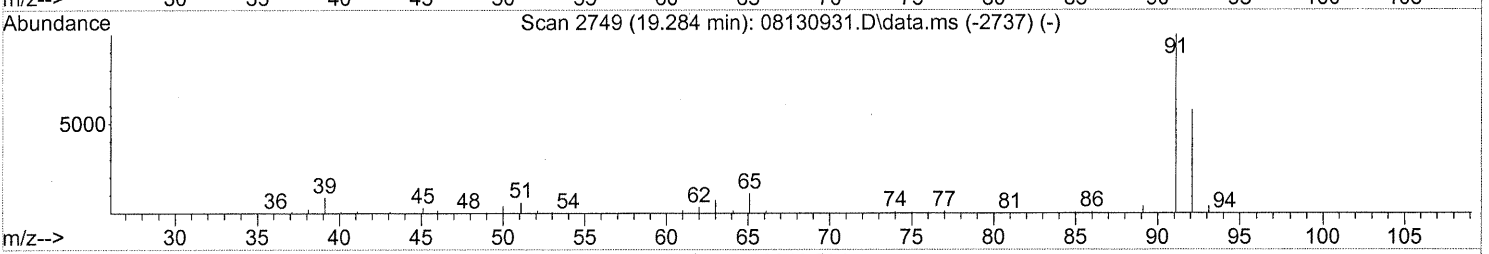
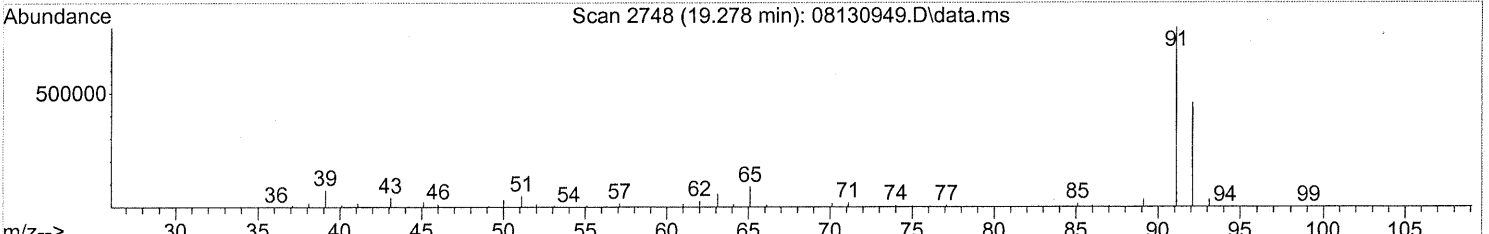
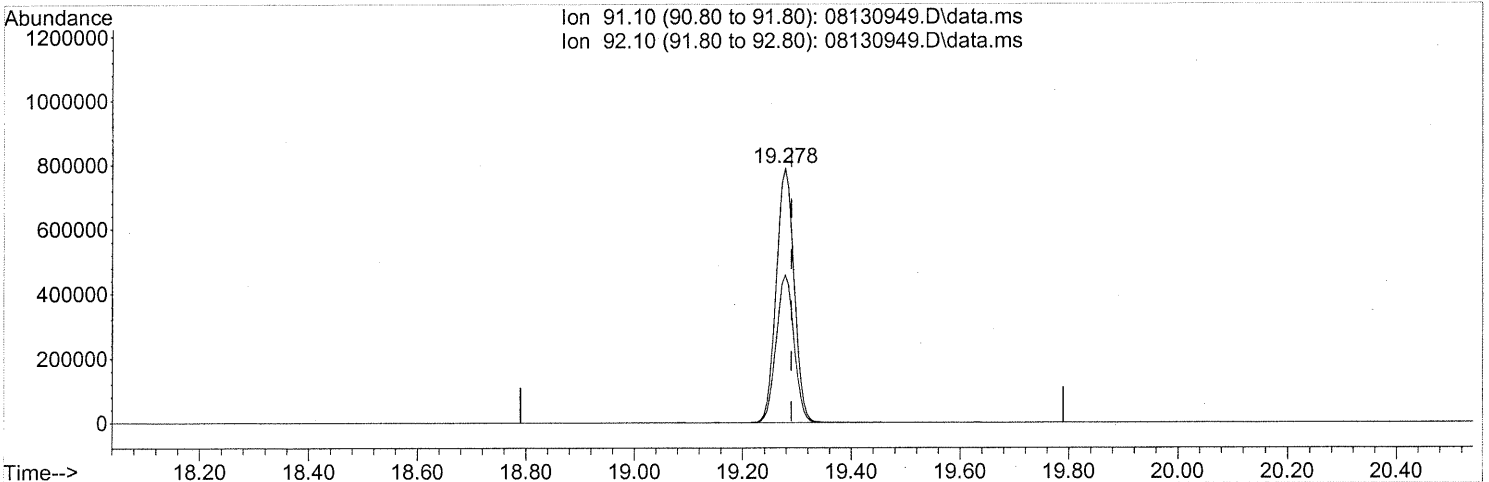
response 31548

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	40.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

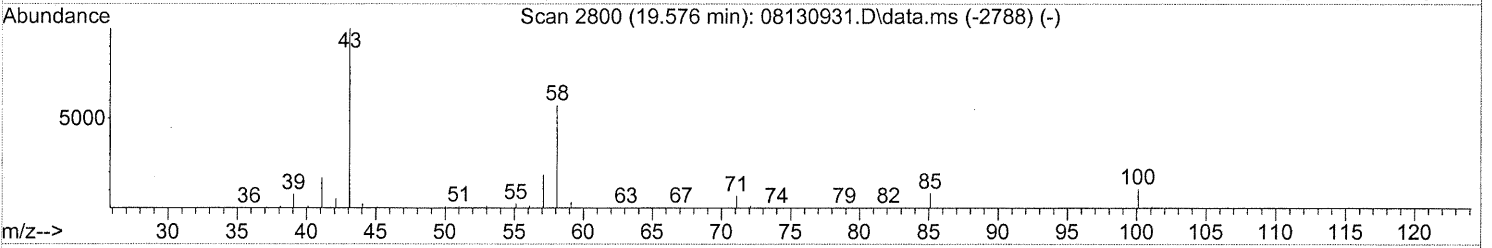
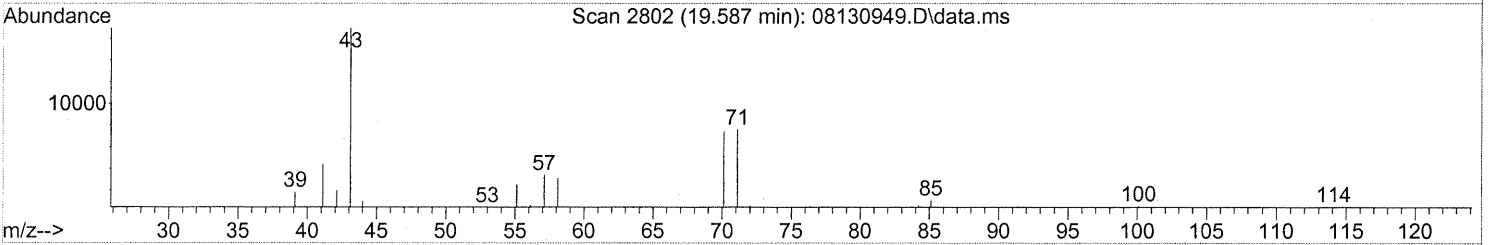
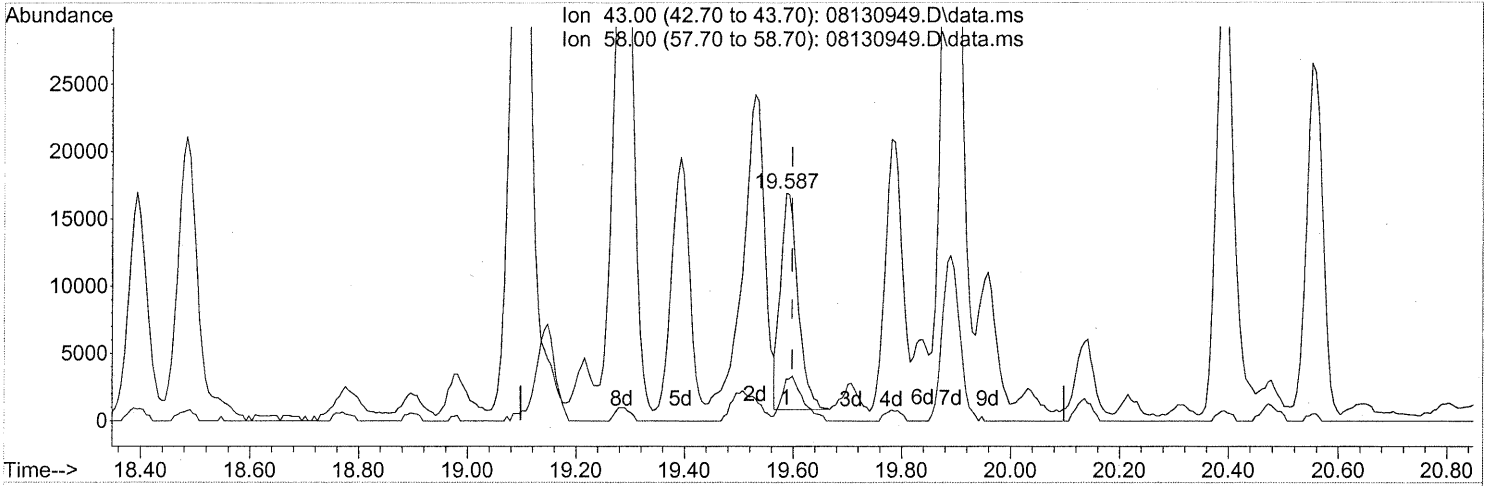
(58) Toluene (T)
 19.278min (-0.011) 17.99ng
 response 1801372

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(59) 2-Hexanone (T)
 19.587min (-0.011) 0.69ng
 response 35957

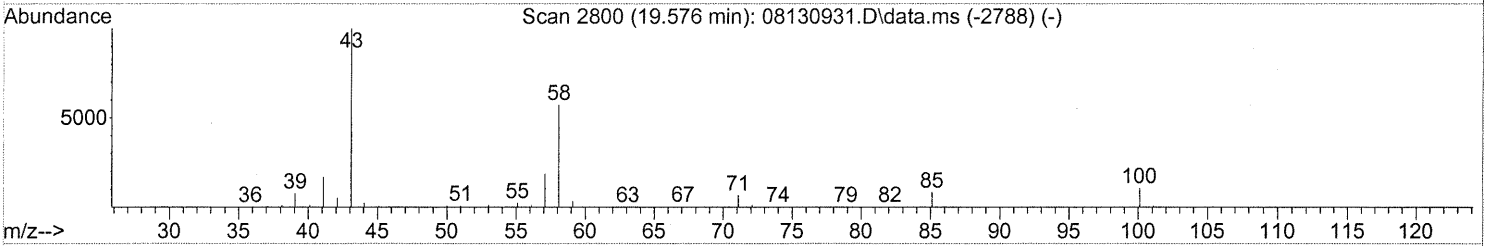
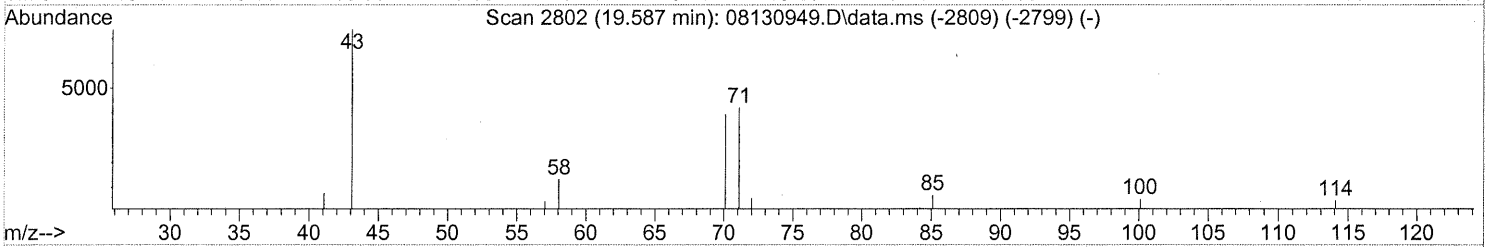
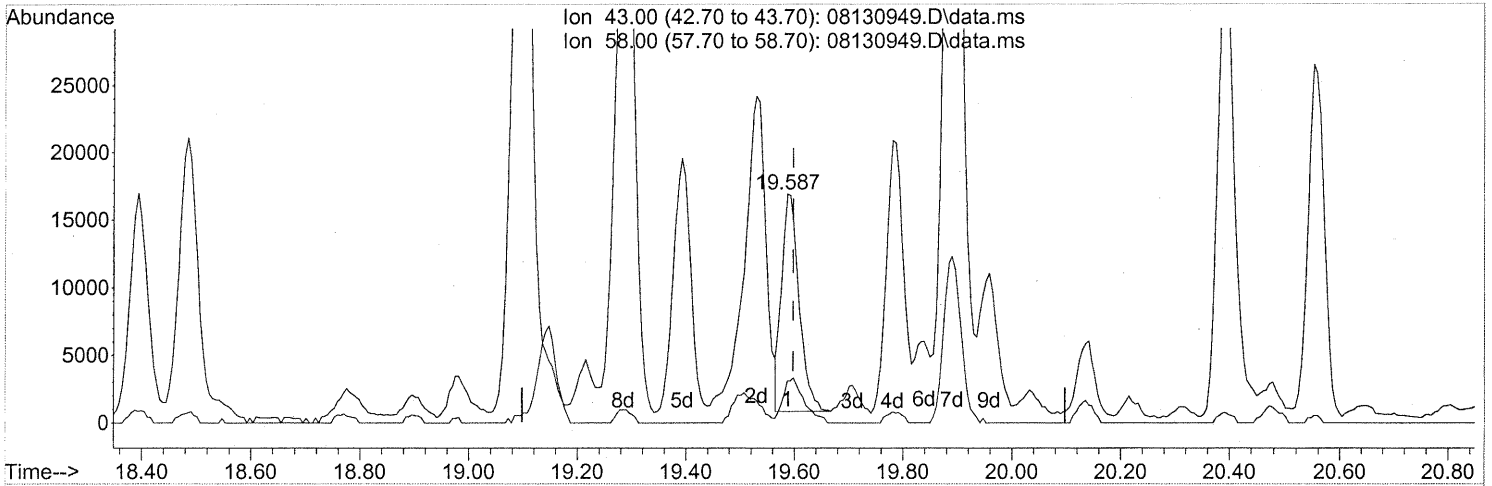
Before subtraction

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	24.62#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(59) 2-Hexanone (T)
 19.587min (-0.011) 0.69ng
 response 35957

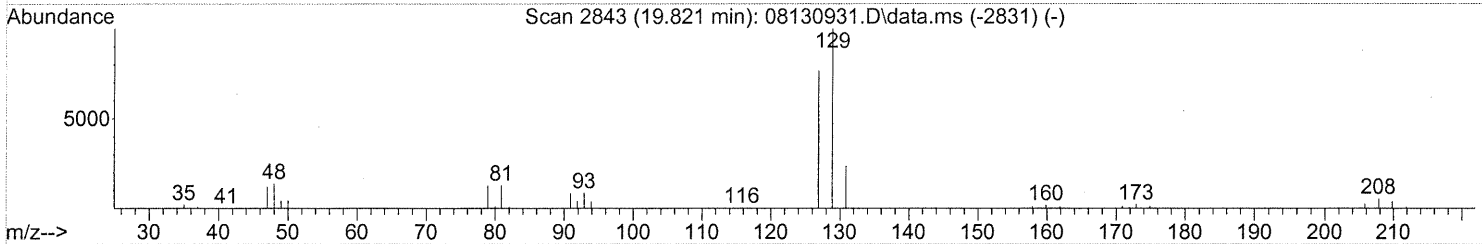
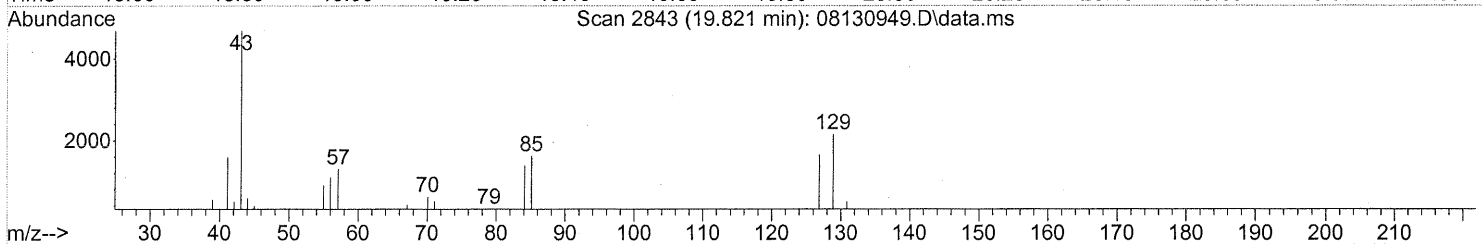
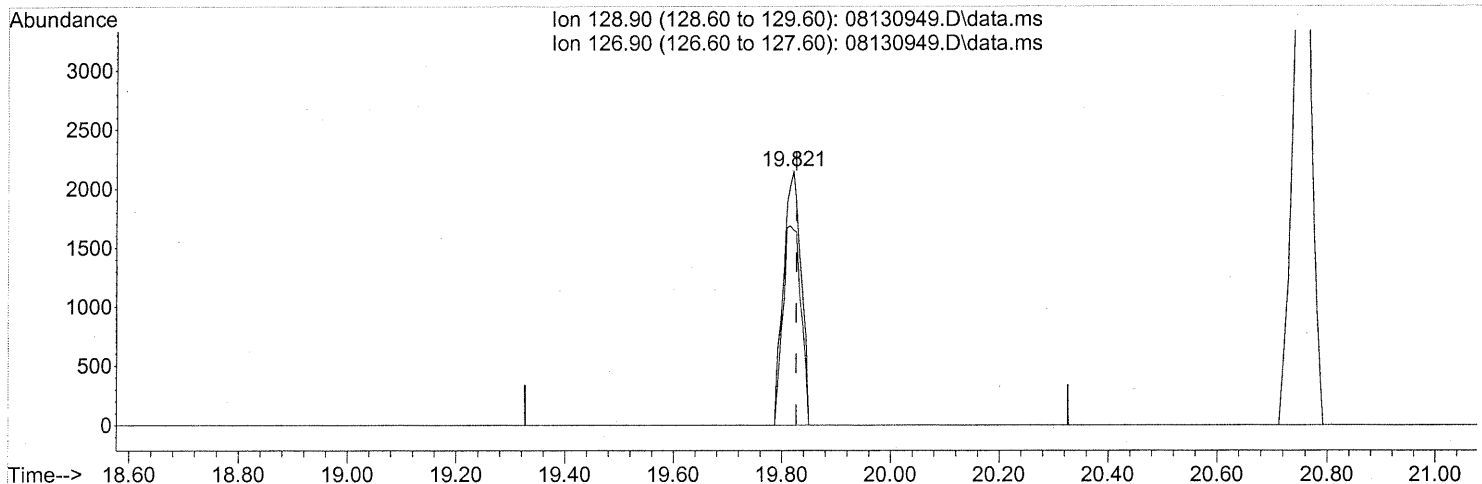
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	24.62#
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
em 8/17/09
m 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(60) Dibromochloromethane (T)

19.821min (-0.006) 0.23ng

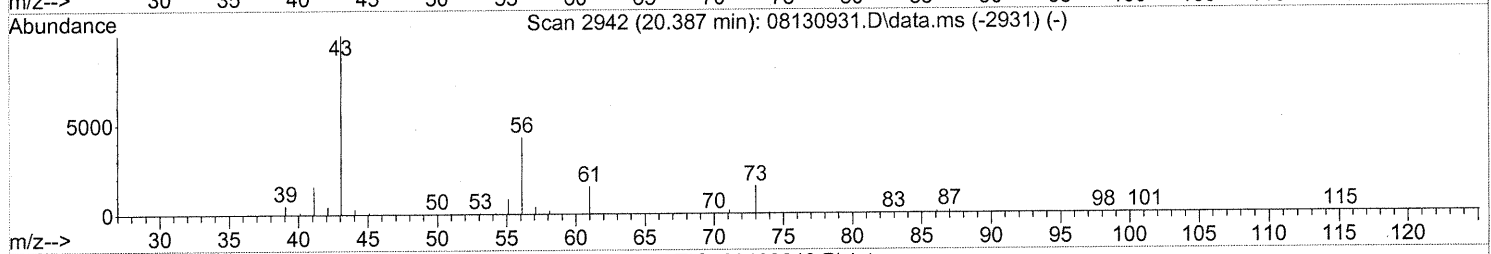
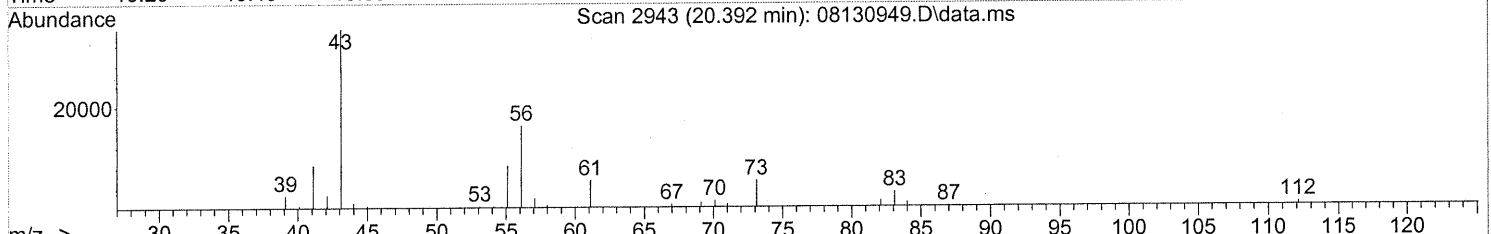
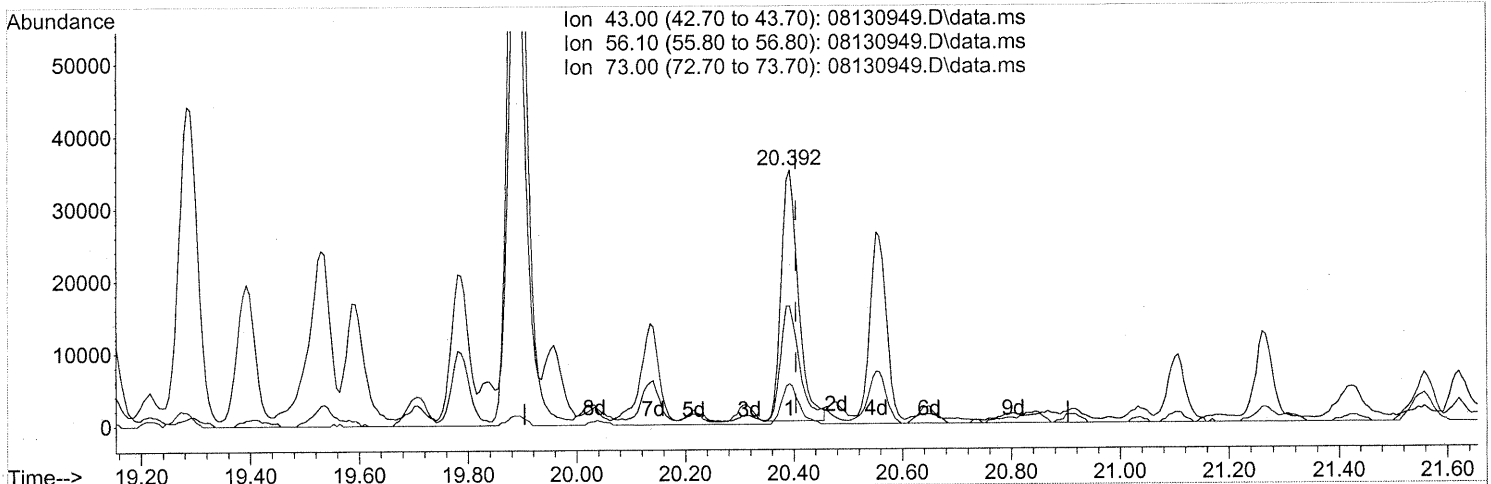
response 4823

Ion	Exp%	Act%
128.90	100	100
126.90	77.60	79.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

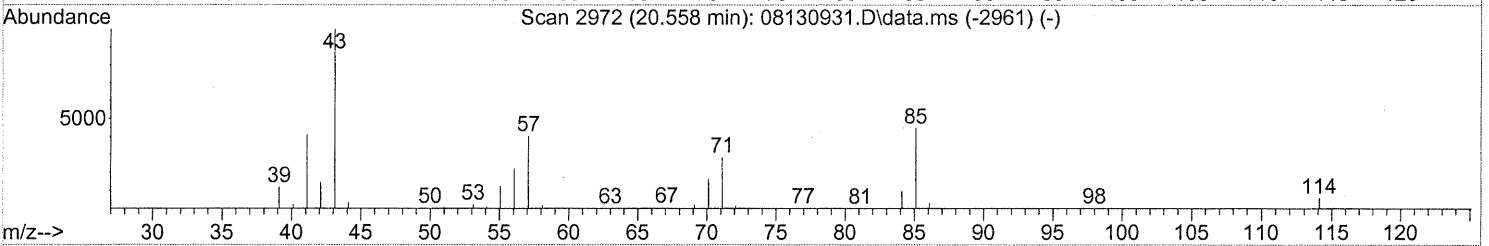
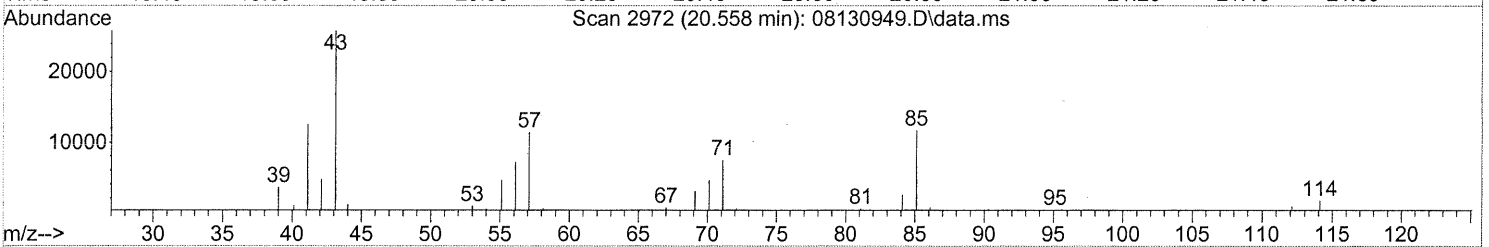
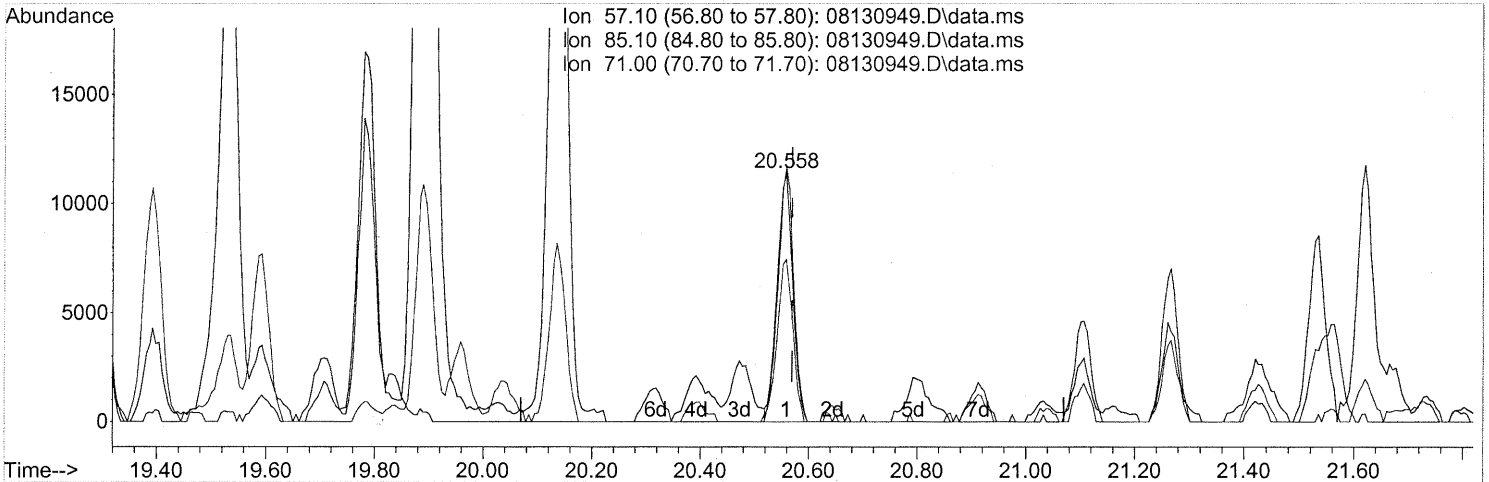
(62) n-Butyl Acetate (T)
 20.392min (-0.012) 1.34ng
 response 76296

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	54.76
73.00	16.90	15.78
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

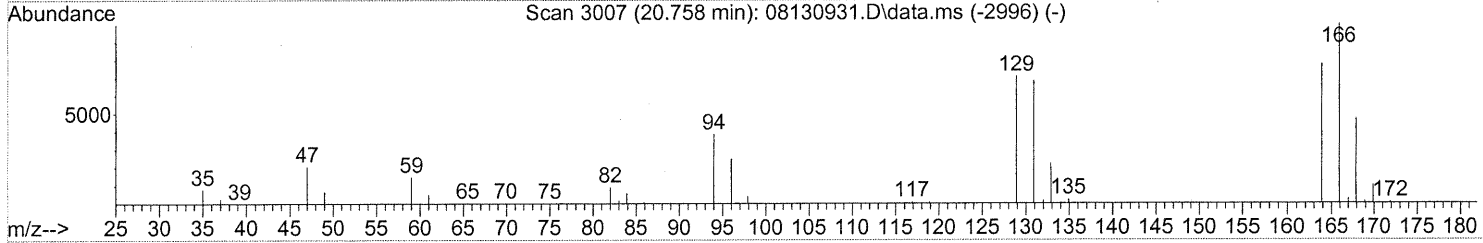
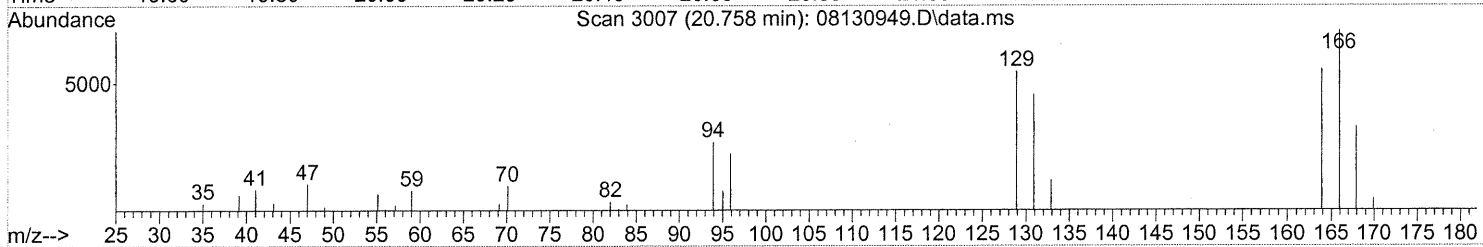
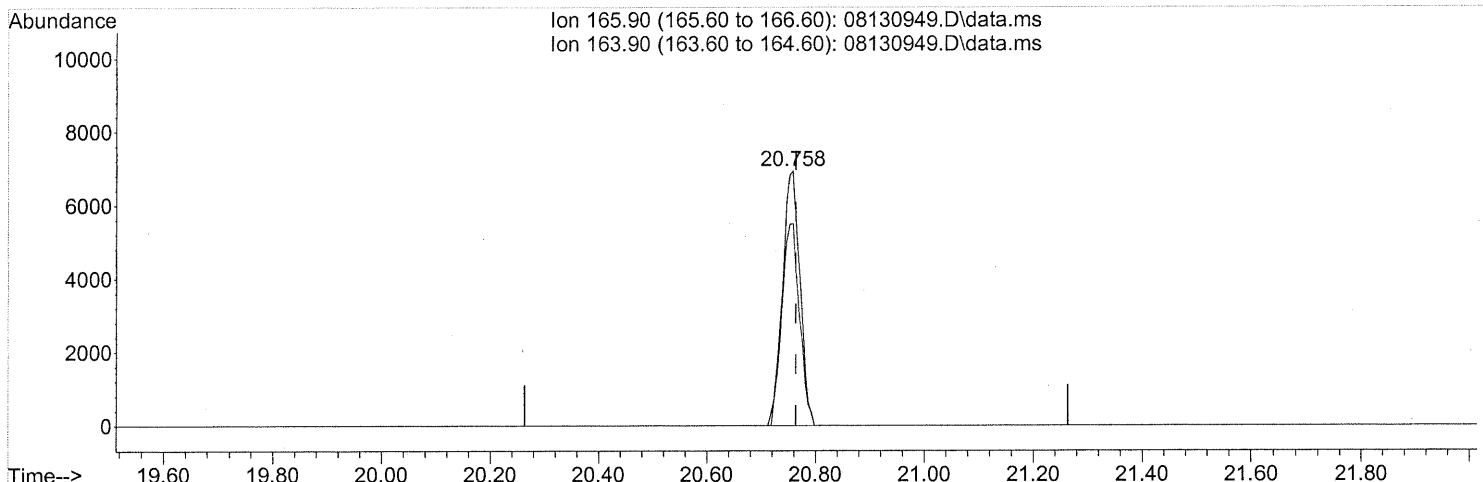
(63) n-Octane (T)
 20.558min (-0.011) 1.02ng
 response 22749

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	102.82
71.00	75.10	65.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(64) Tetrachloroethene (T)

20.758min (-0.006) 0.62ng

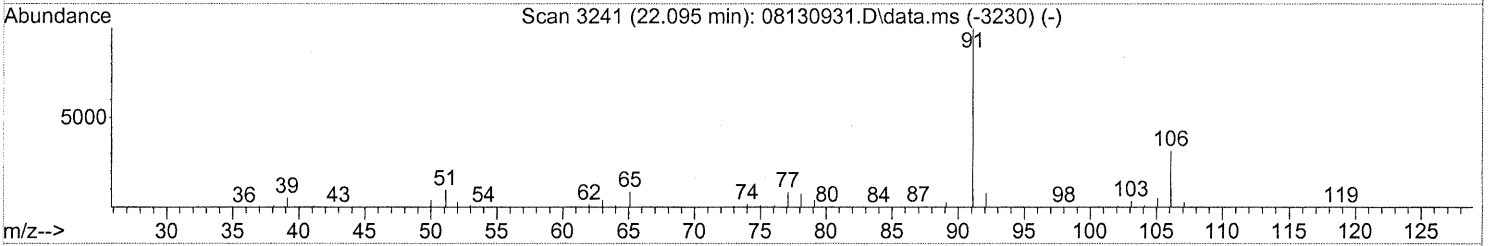
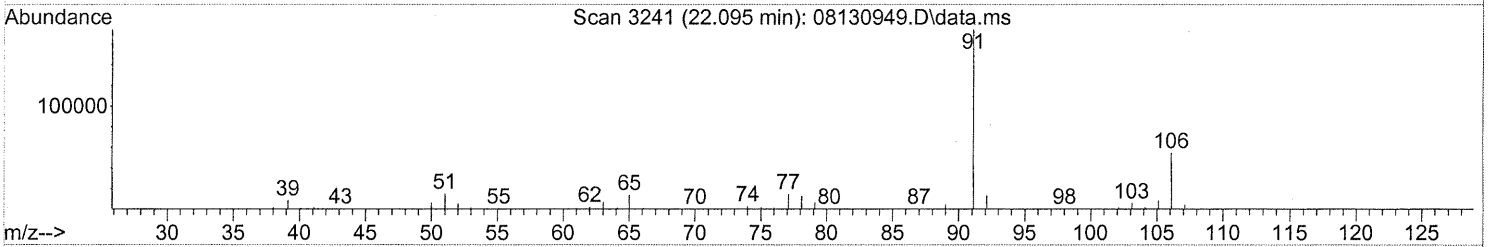
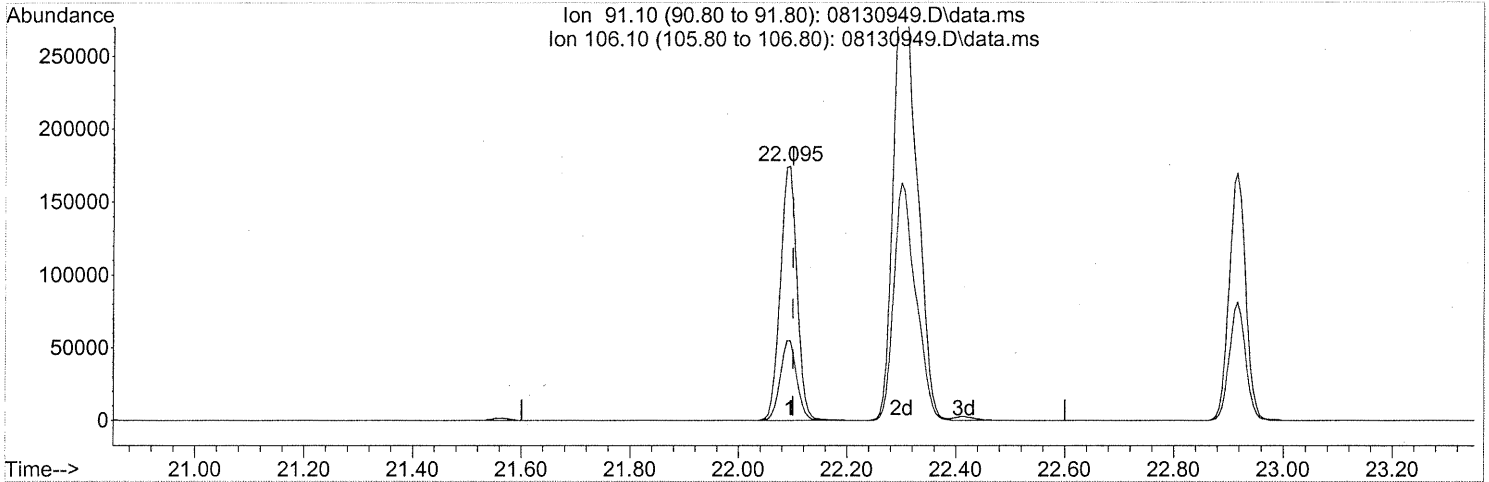
response 15467

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

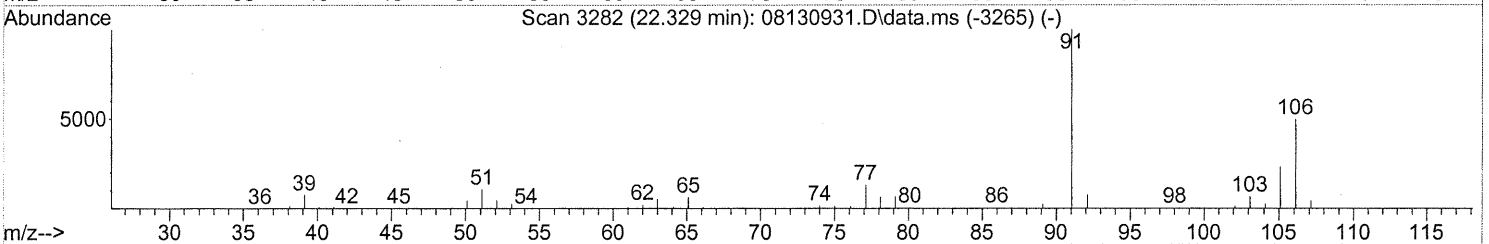
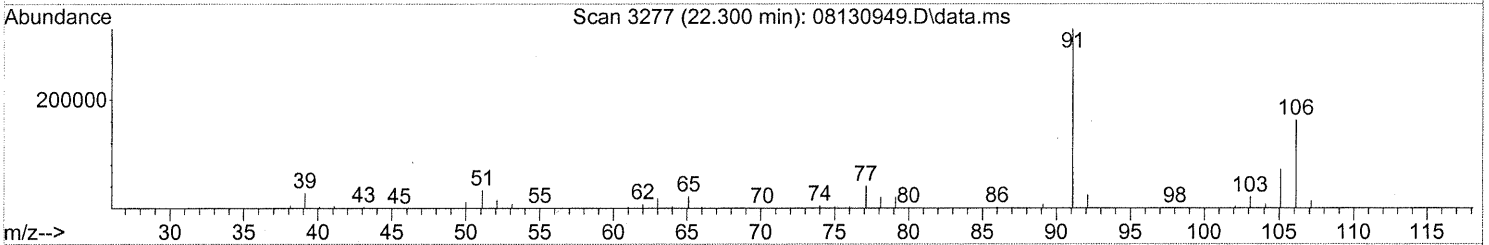
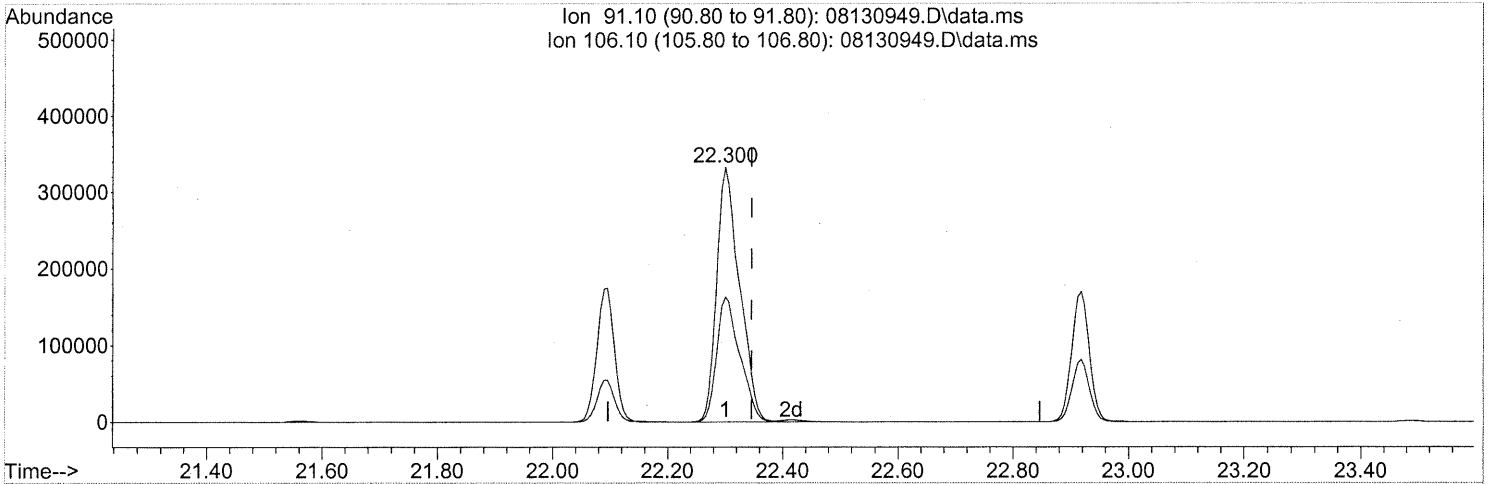
(66) Ethylbenzene (T)
 22.095min (-0.006) 3.42ng
 response 370204

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

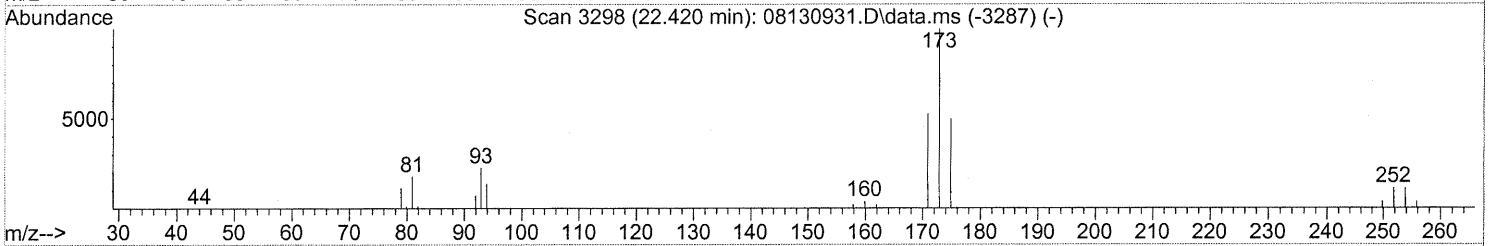
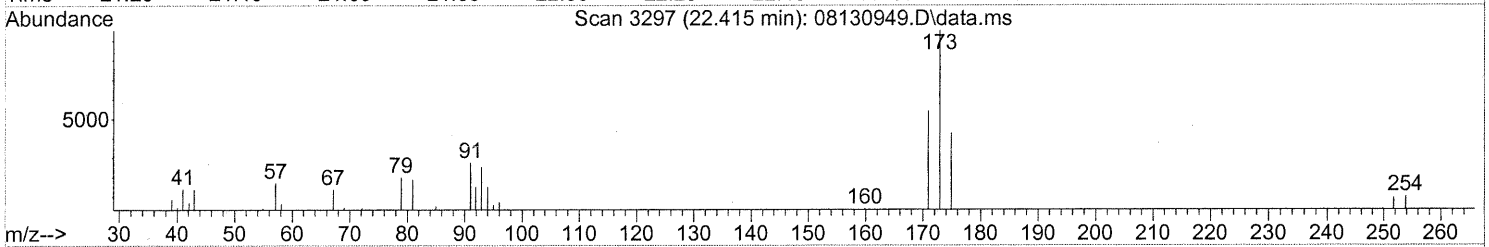
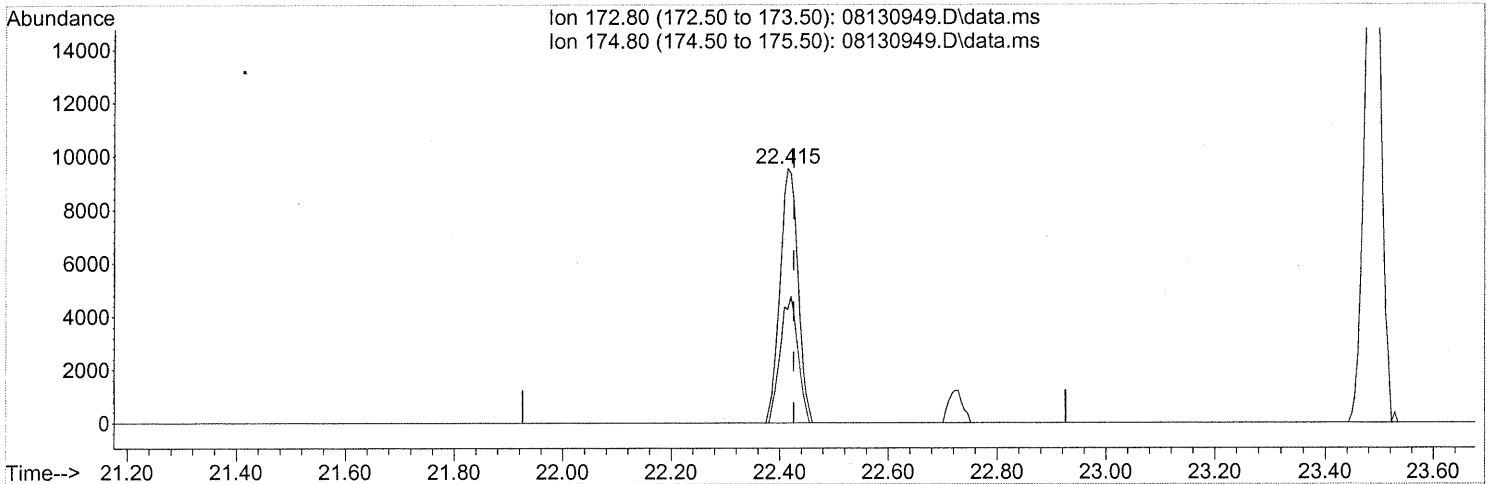
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 10.72ng
 response 918381

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(68) Bromoform (T)

22.415min (-0.011) 1.18ng

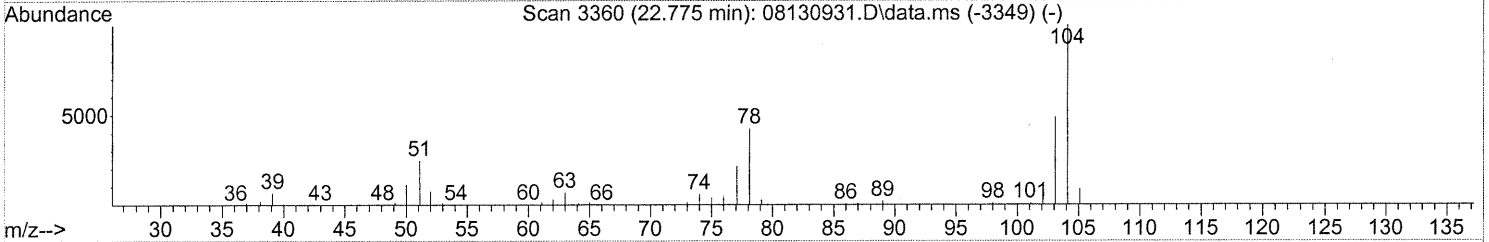
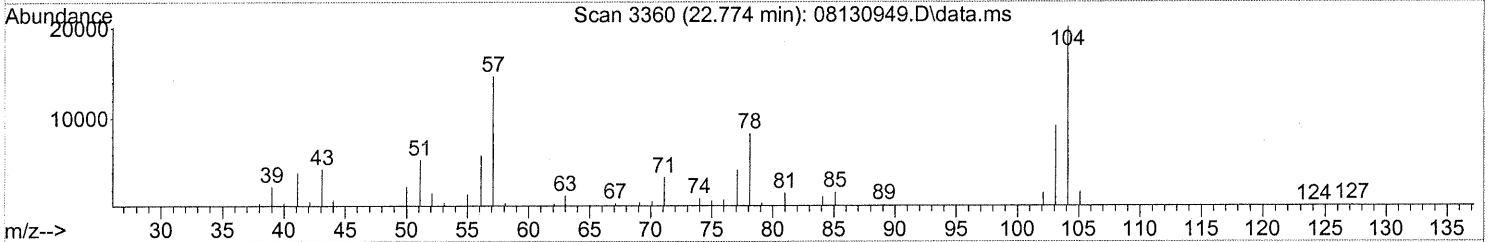
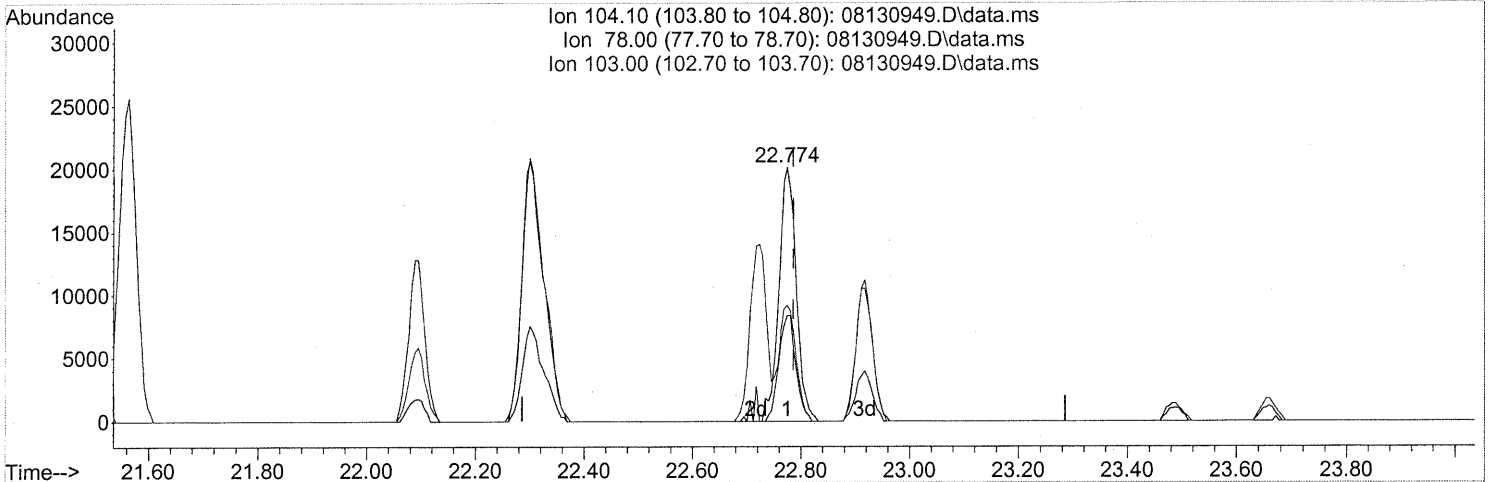
response 21962

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	48.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

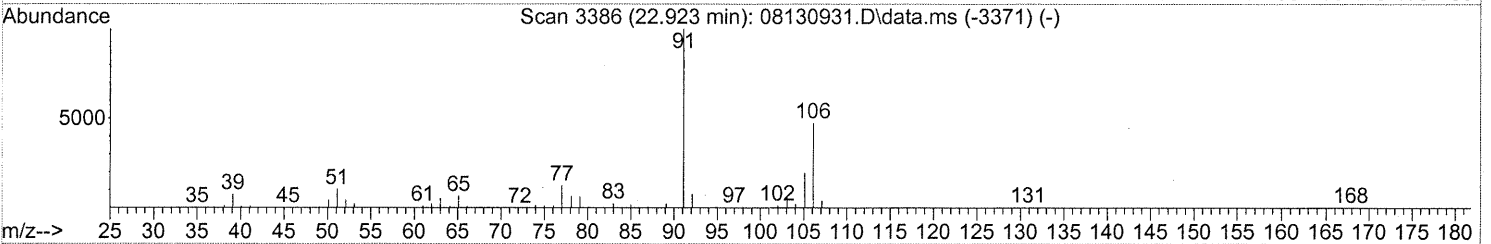
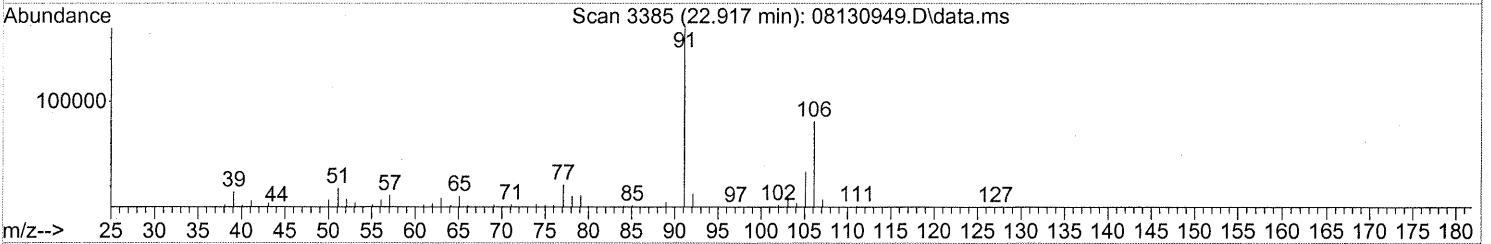
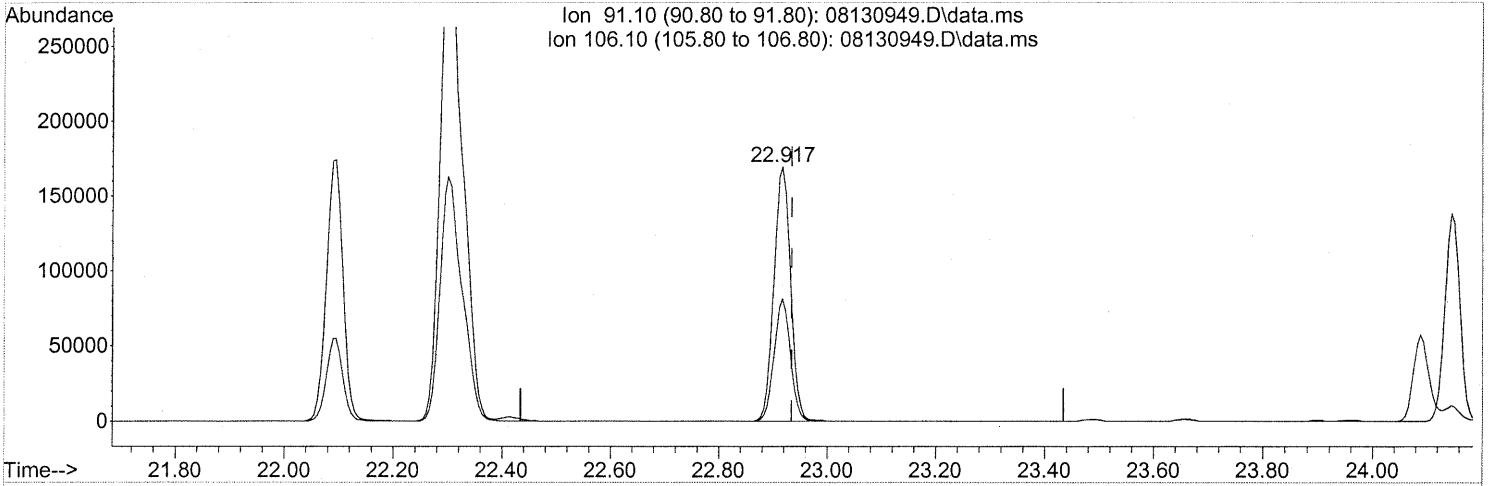
(69) Styrene (T)
 22.774min (-0.011) 0.70ng
 response 44607

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	40.53
103.00	48.70	43.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

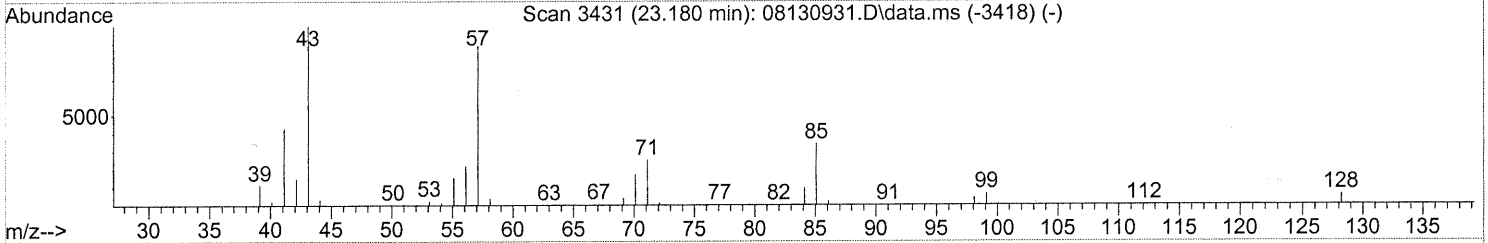
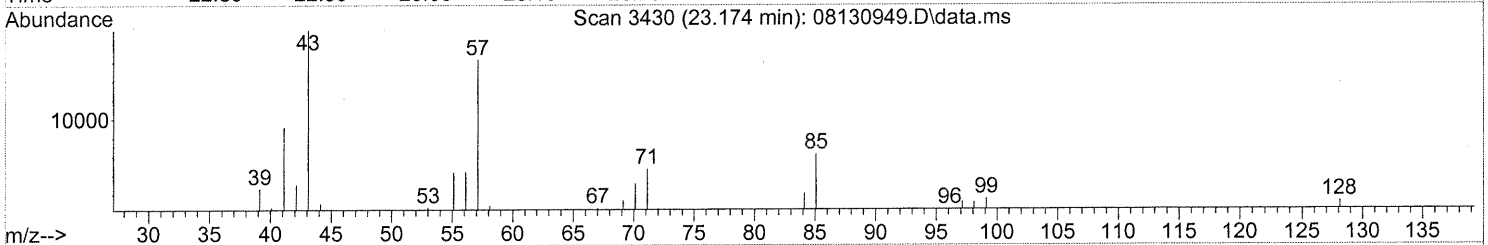
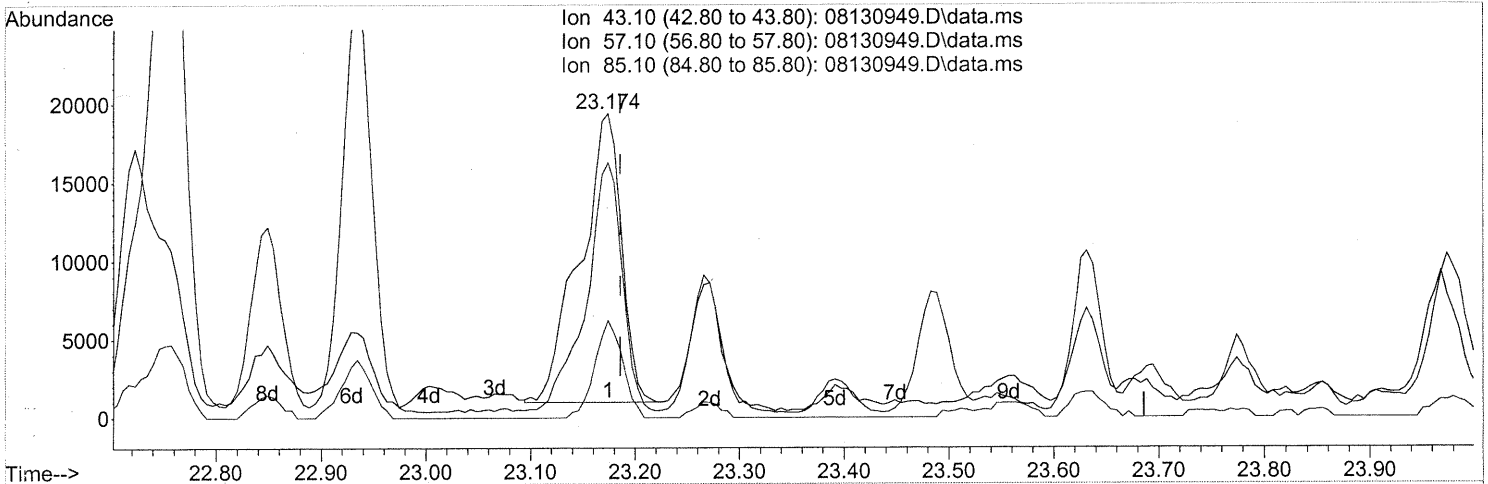
(70) o-Xylene (T)
 22.917min (-0.017) 4.17ng
 response 359424

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:23:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(71) n-Nonane (T)
 23.174min (-0.012) 0.97ng
 response 50437

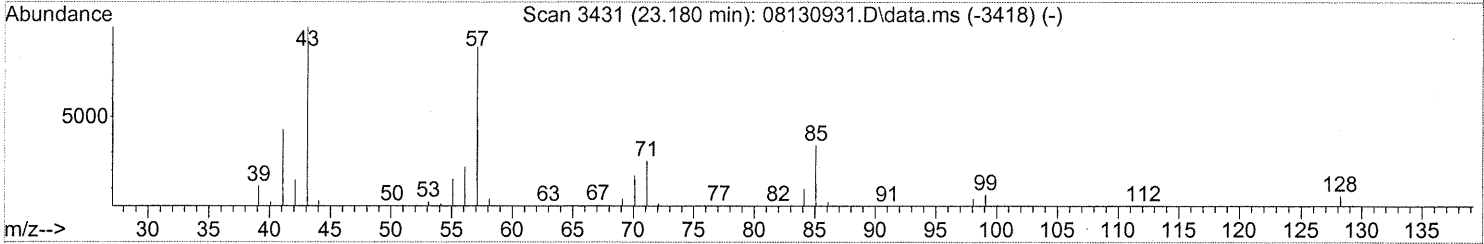
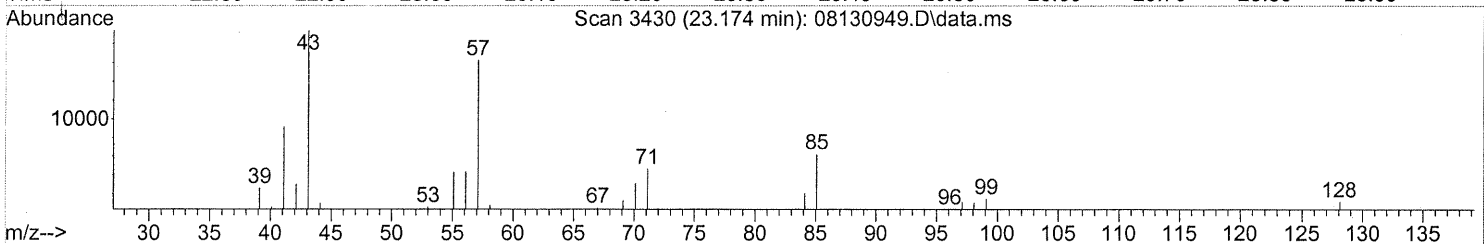
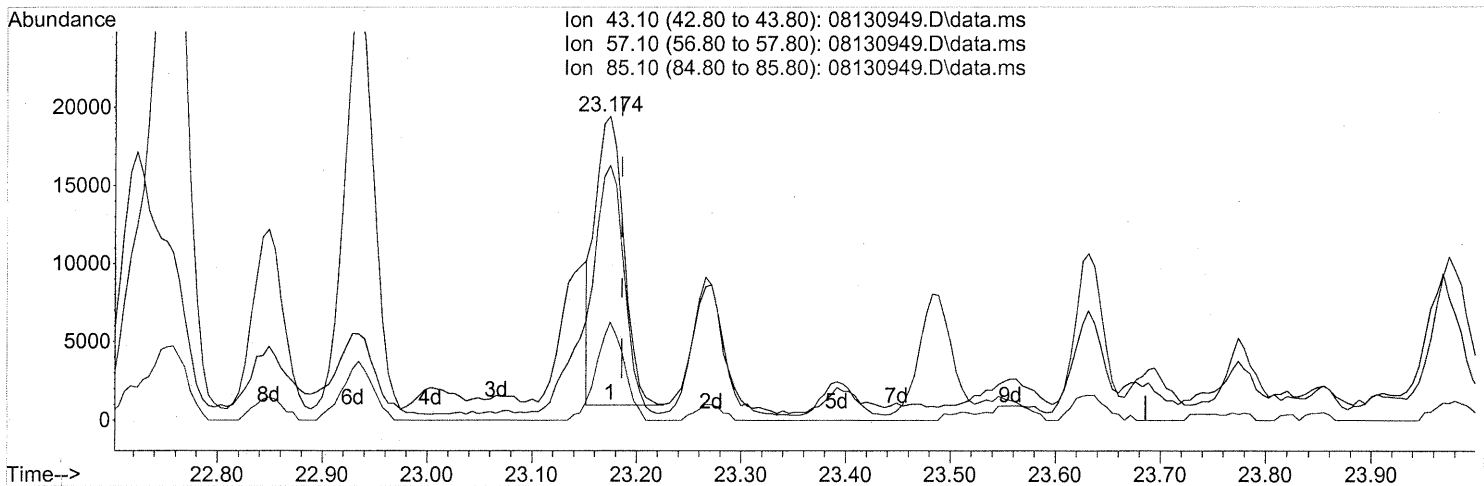
Ion	Exp%	Act%
43.10	100	100
57.10	94.00	75.26
85.10	38.80	22.86
0.00	0.00	0.00

IPI

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:23:48 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(71) n-Nonane (T)
 23.174min (-0.012) 0.68ng m

response 35048

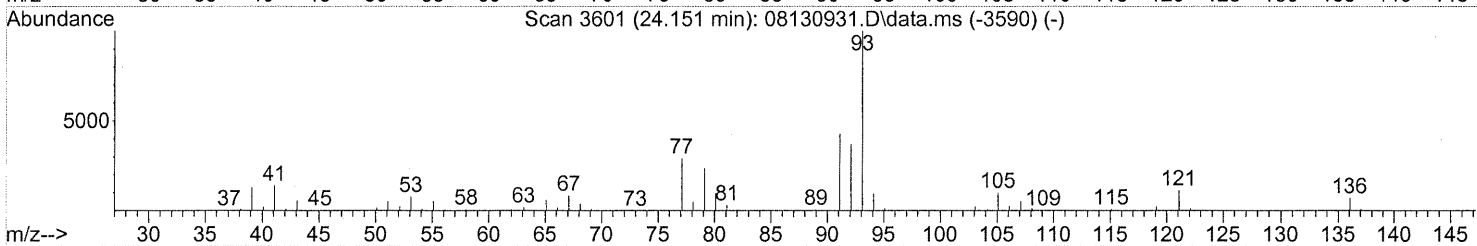
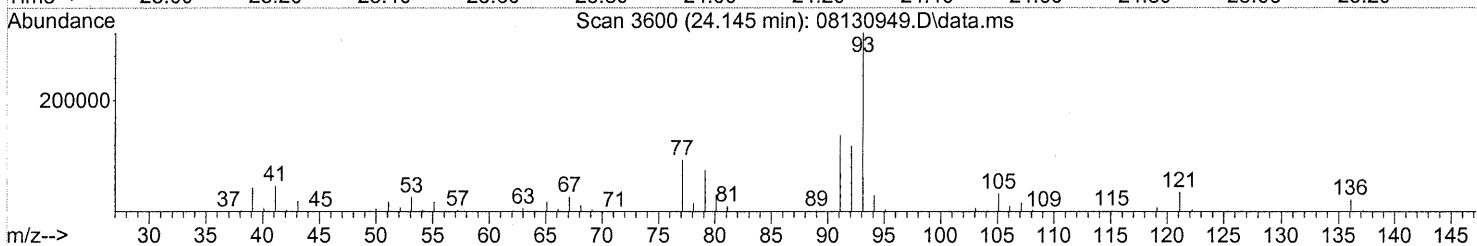
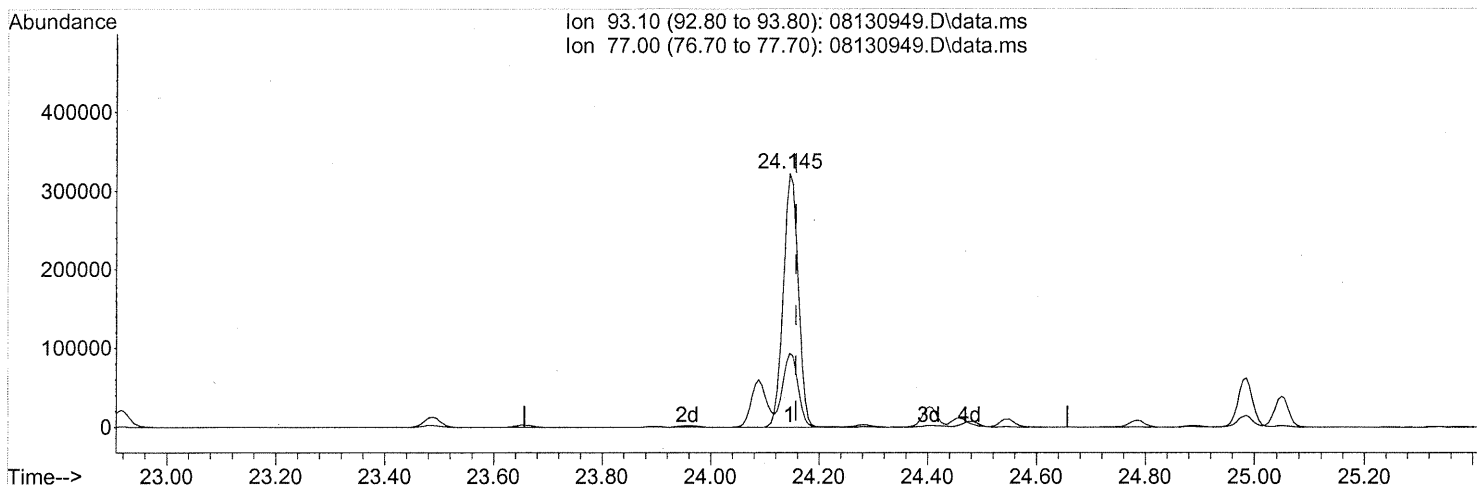
Ion	Exp%	Act%
43.10	100	100
57.10	94.00	108.30
85.10	38.80	32.90
0.00	0.00	0.00

Handwritten: IPI → IC
 em 8/17/09
 m 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

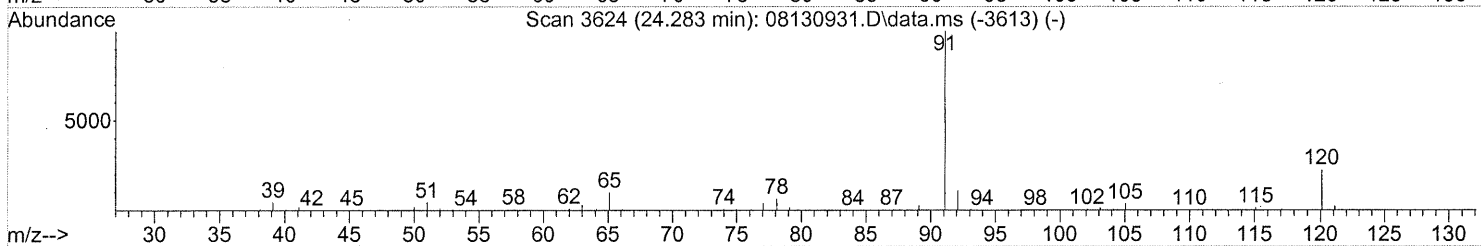
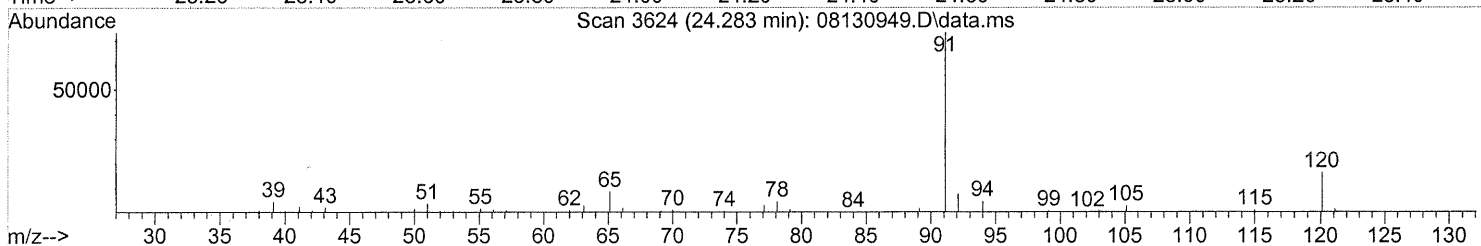
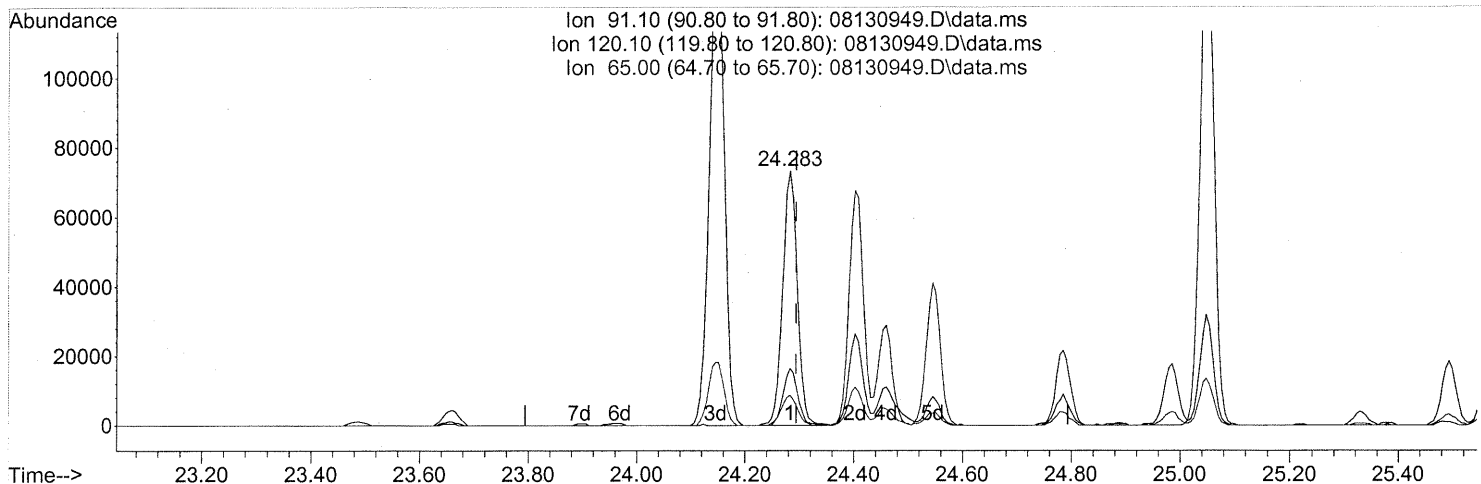
(75) alpha-Pinene (T)
 24.145min (-0.012) 11.14ng
 response 614460

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	29.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.012) 1.00ng

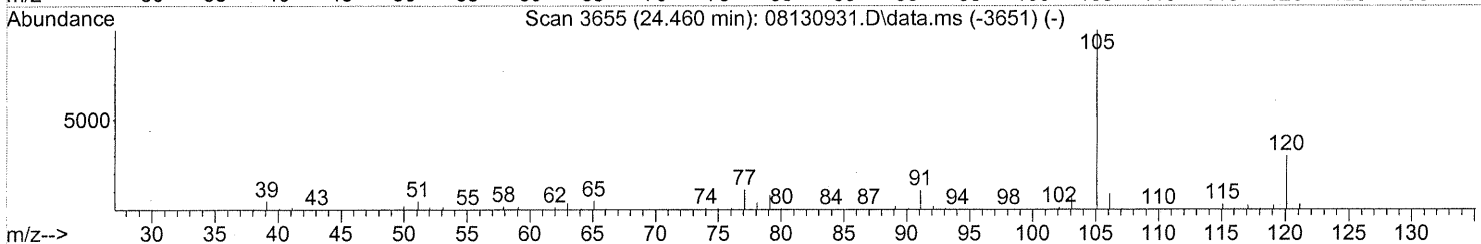
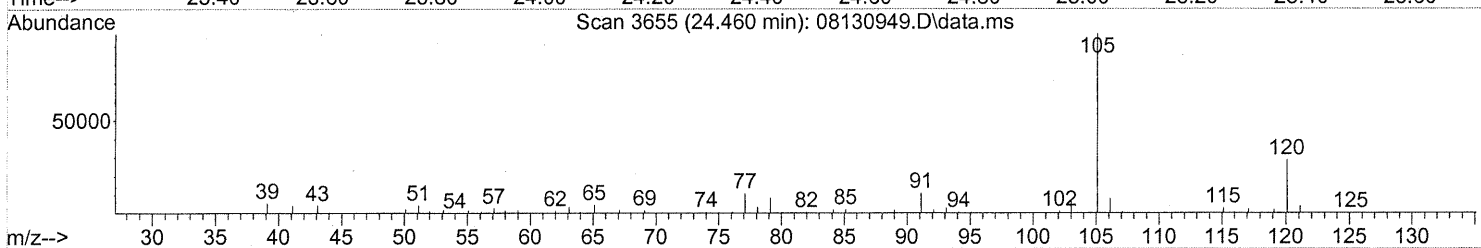
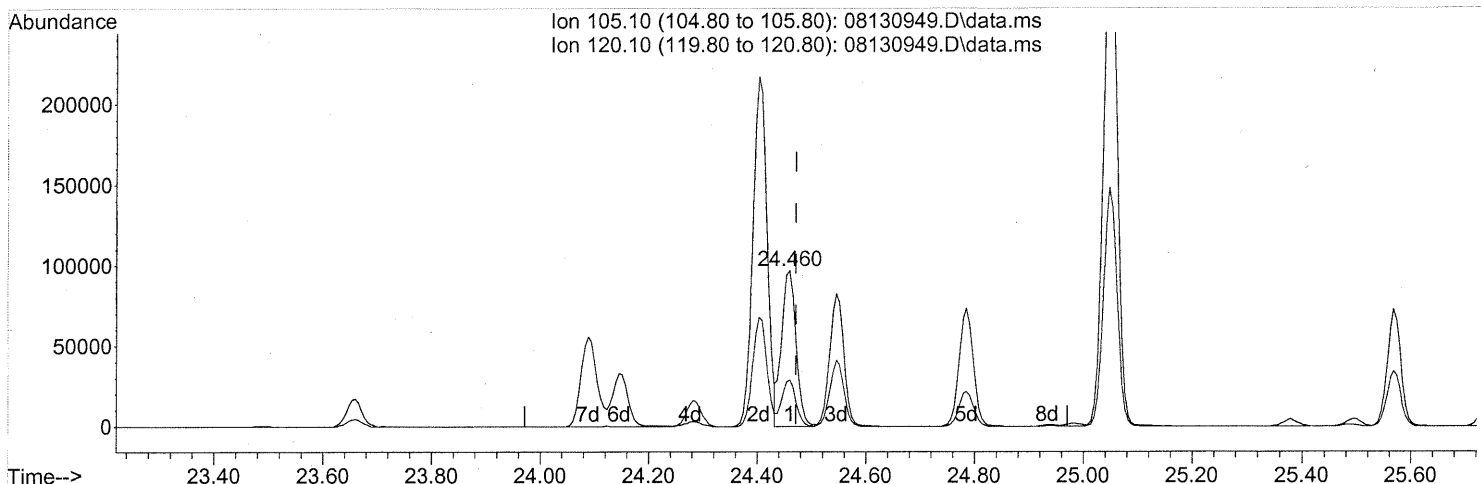
response 137525

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.93
65.00	10.20	13.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

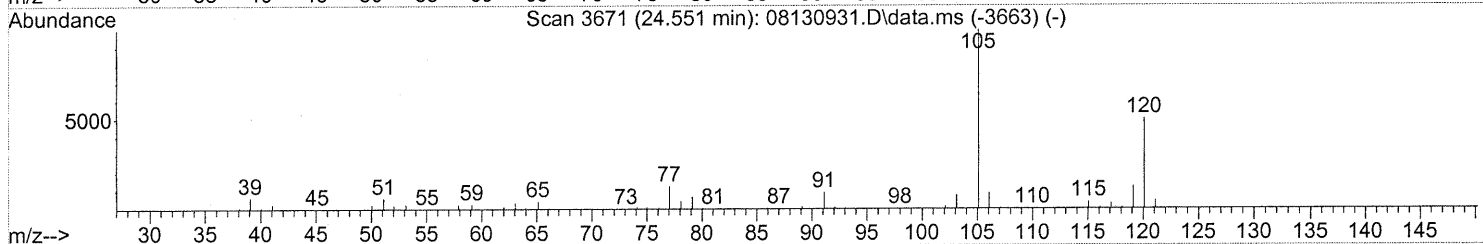
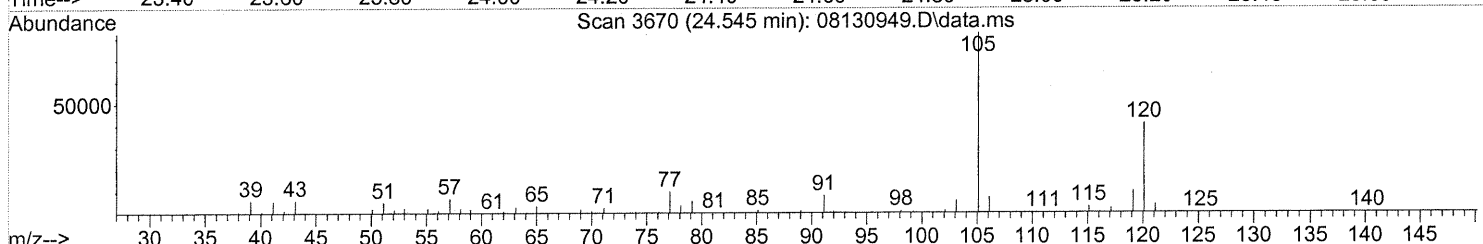
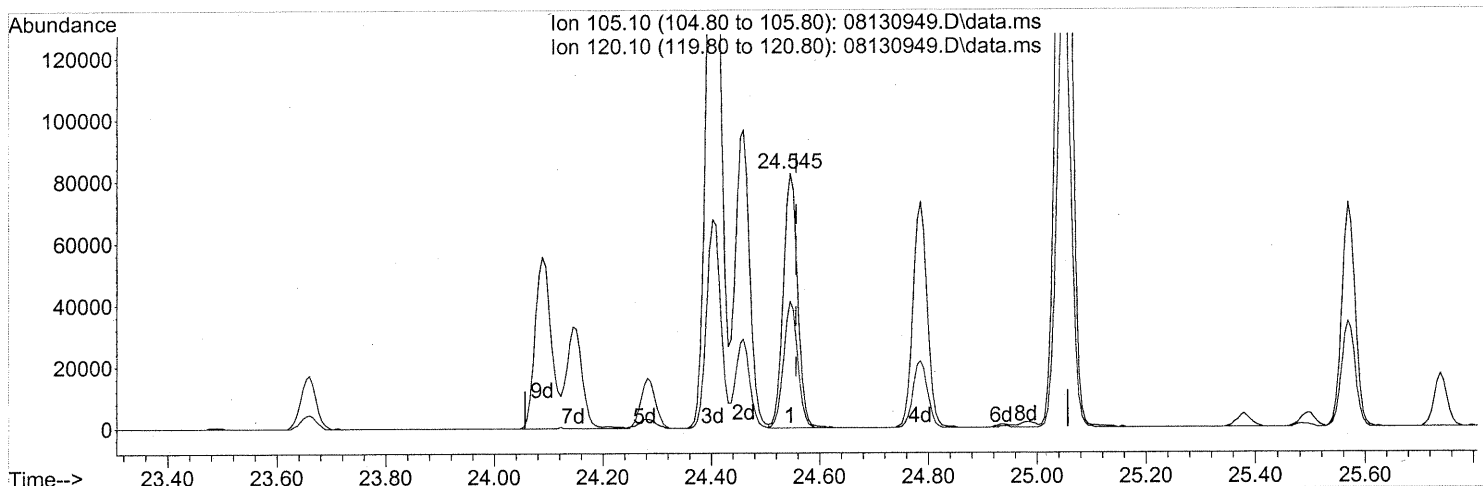
(78) 4-Ethyltoluene (T)
 24.460min (-0.012) 1.70ng
 response 179240

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	29.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

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

24.545min (-0.011) 1.73ng

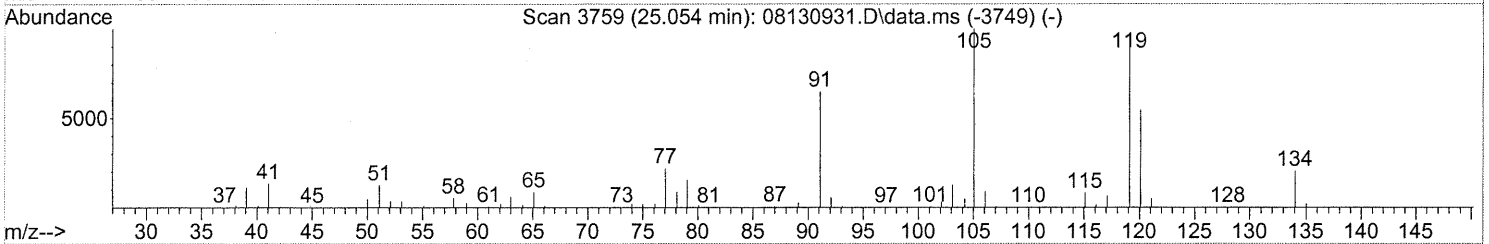
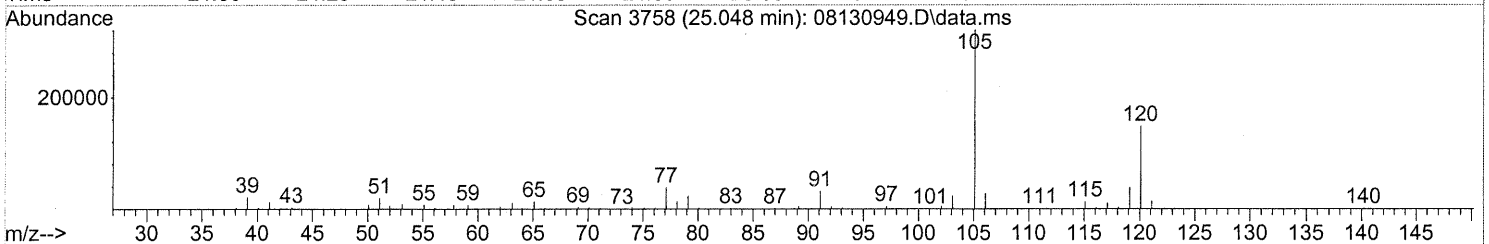
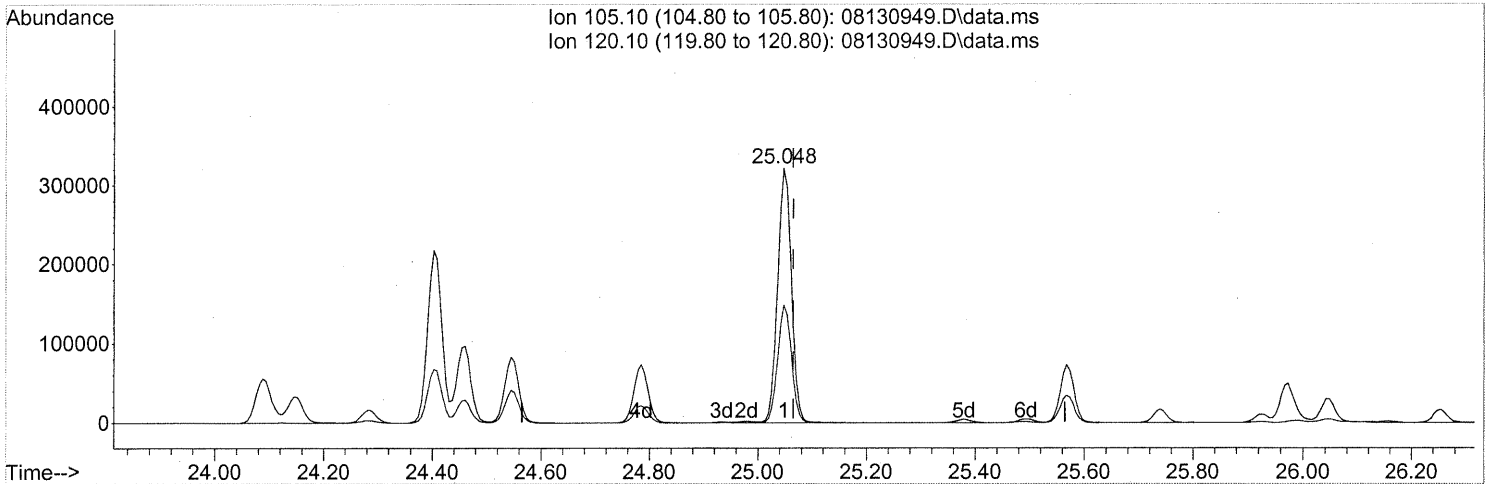
response 150652

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	49.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

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

25.048min (-0.017) 6.08ng

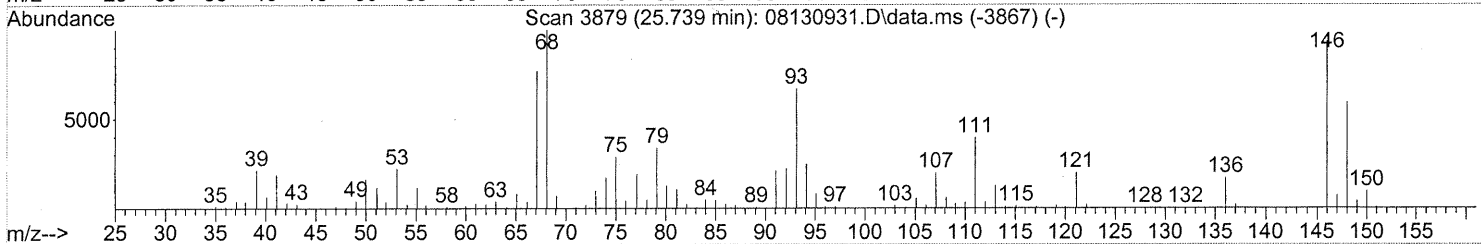
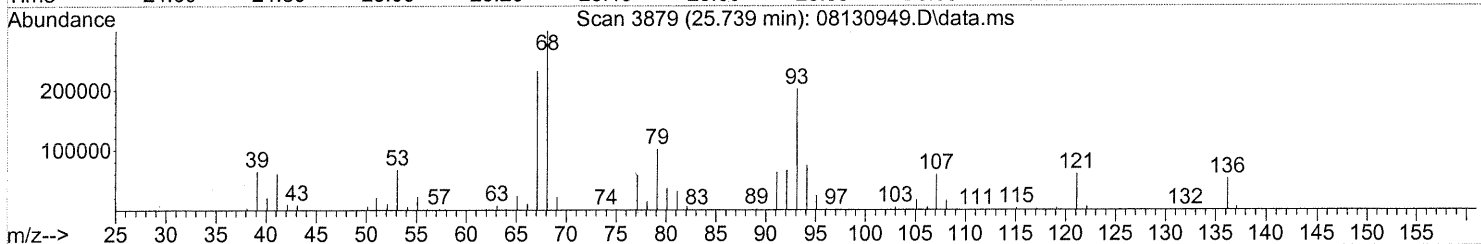
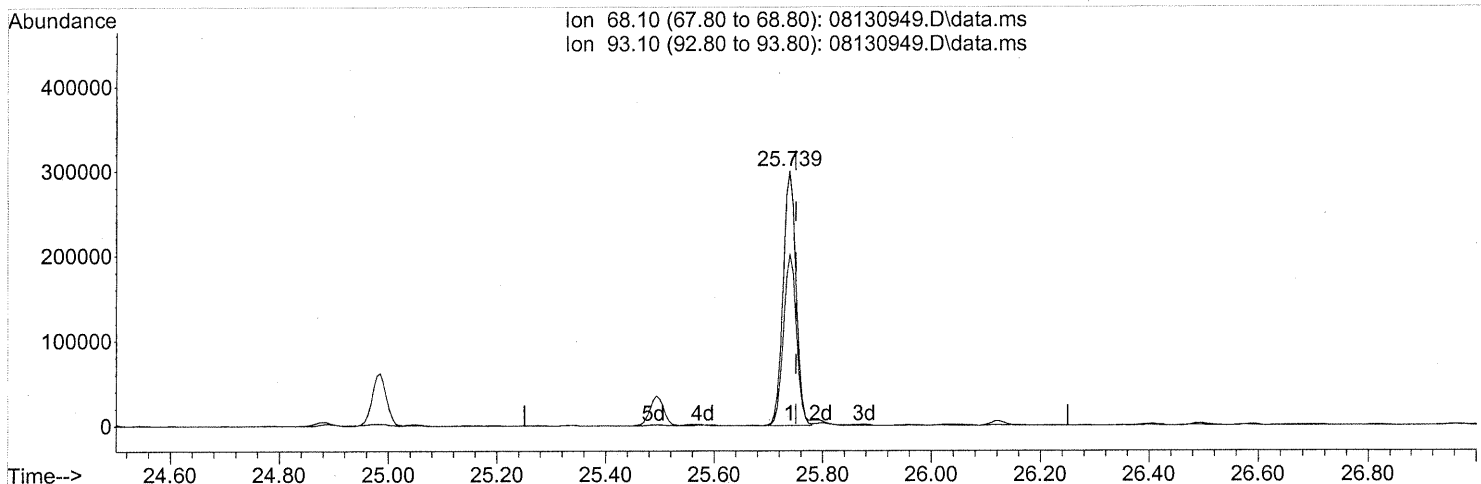
response 562379

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130949.D\data.ms

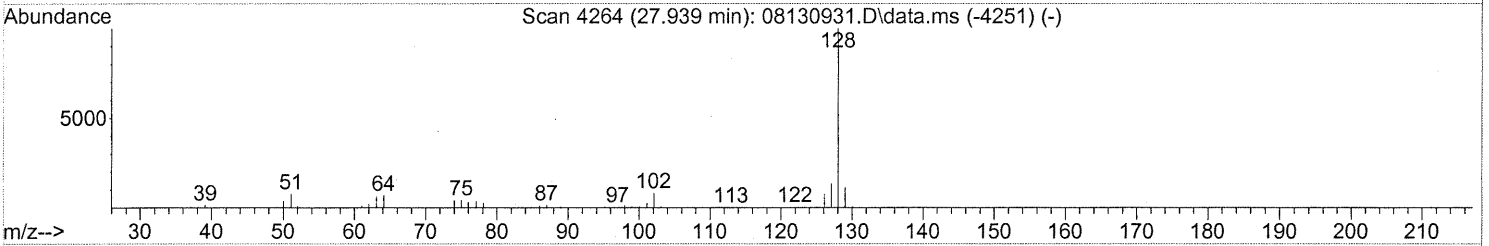
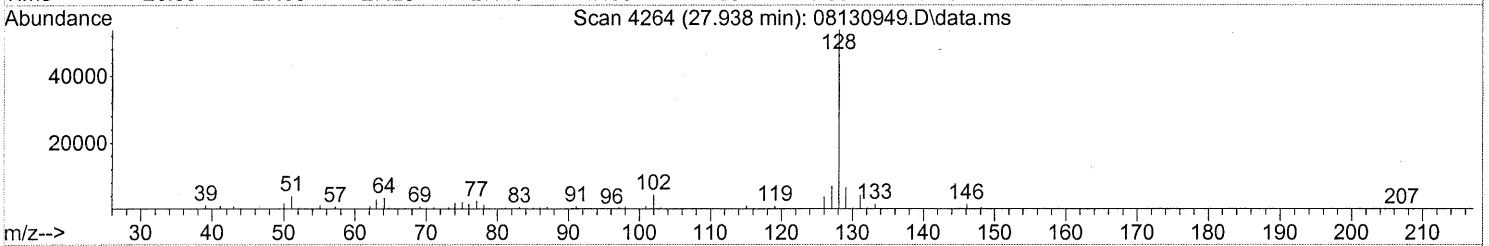
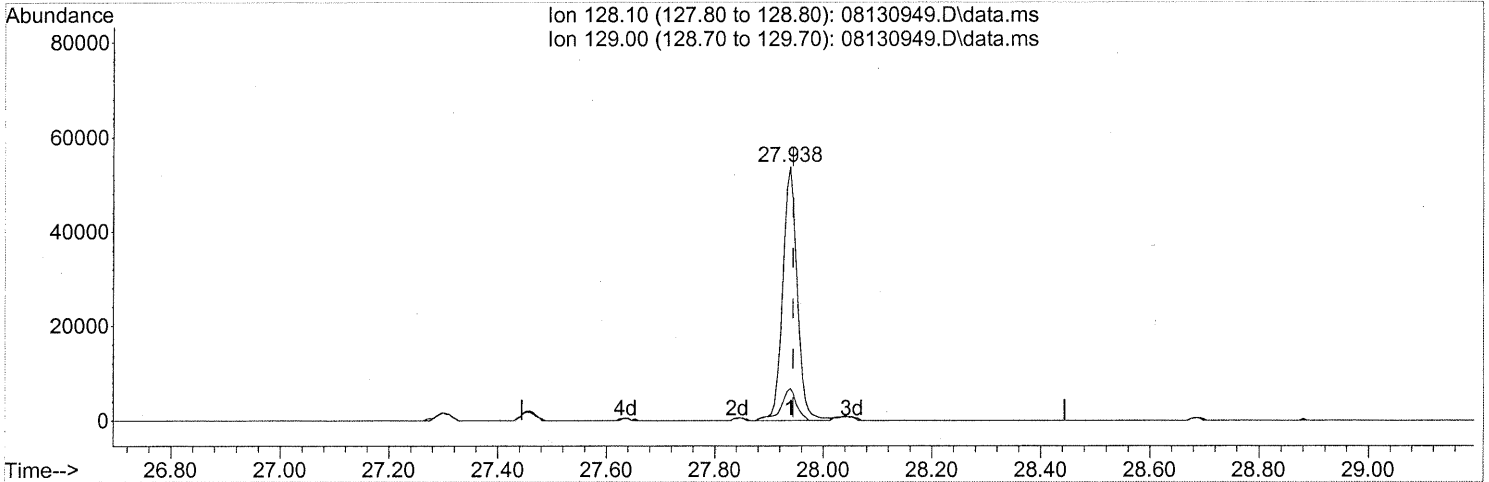
(91) d-Limonene (T)
 25.739min (-0.011) 13.11ng
 response 495892

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	69.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130949.D
 Acq On : 14 Aug 2009 19:07
 Operator : EM
 Sample : P0902720-004 (1000ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:46 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



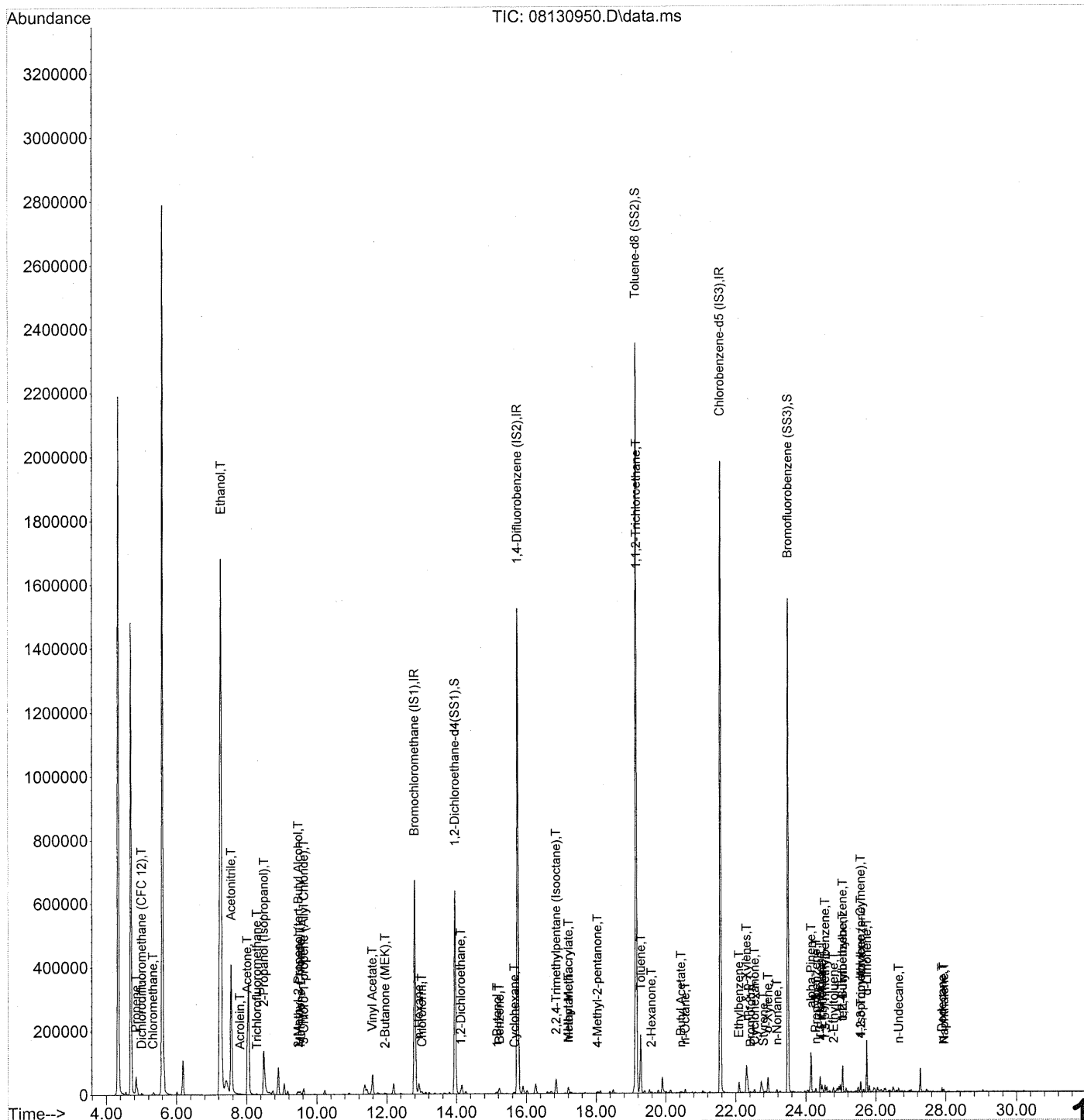
TIC: 08130949.D\data.ms

(95) Naphthalene (T)
 27.938min (-0.006) 0.80ng
 response 99223

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	13.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:45:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:45:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	357493	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1814252	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	859544	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	631973	25.001	ng	-0.03	
Spiked Amount	25.000						
							Recovery = 100.00%
57) Toluene-d8 (SS2)	19.14	98	2086236	25.531	ng	-0.02	
Spiked Amount	25.000						
							Recovery = 102.12%
73) Bromofluorobenzene (SS3)	23.49	174	561190	24.250	ng	0.00	
Spiked Amount	25.000						
							Recovery = 97.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	22579	0.720	ng	92
3) Dichlorodifluoromethan...	5.00	85	6435	0.144	ng	# 89
4) Chloromethane	5.32	50	5390	0.129	ng	91
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	3598367m	182.926	ng	
11) Acetonitrile	7.55	41	629850	13.120	ng	99
12) Acrolein	7.81	56	2246	0.175	ng	93
13) Acetone	8.01	58	101916	5.091	ng	# 34
14) Trichlorofluoromethane	8.29	101	3839	0.100	ng	95
15) 2-Propanol (Isopropanol)	8.48	45	335842	6.126	ng	89
16) Acrylonitrile	8.75	53	898	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.47	59	20866	0.375	ng	# 73
19) Methylene Chloride	9.53	84	5088	0.204	ng	87
20) 3-Chloro-1-propene (Al...	9.62	41	5536	0.165	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.94	76	3791	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	11.58	86	3631	0.838	ng	# 1
27) 2-Butanone (MEK)	11.95	72	2434	0.174	ng	# 1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.96	61	332	N.D.		
31) n-Hexane	12.92	57	21189	0.480	ng	92

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em 8/17/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:45:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	6870	0.186	ng	99
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	11109	0.393	ng	99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.17	56	7355	0.313	ng	86
41) Benzene	15.23	78	21828	0.224	ng	95
42) Carbon Tetrachloride	15.45	117	1066	N.D.		
43) Cyclohexane	15.65	84	2527	0.067	ng	# 64
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.73	83	616	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...	16.85	57	54996	0.490	ng	97
50) Methyl Methacrylate	17.21	100	1581	0.162	ng	# 1
51) n-Heptane	17.21	71	5654	0.218	ng	92
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.03	58	1568	0.074	ng	# 31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	162178	7.780	ng	# 8
58) Toluene	19.28	91	172141	1.738	ng	99
59) 2-Hexanone	19.59	43	2579	0.050	ng	# 22
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.43	43	5751	0.102	ng	# 87
63) n-Octane	20.55	57	2200	0.100	ng	# 73
64) Tetrachloroethene	20.76	166	1210	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	34335	0.321	ng	94
67) m- & p-Xylenes	22.30	91	87461	1.032	ng	97
68) Bromoform	22.42	173	1664	0.091	ng	# 68
69) Styrene	22.79	104	3583	0.057	ng	96
70) o-Xylene	22.92	91	34252	0.402	ng	98
71) n-Nonane	23.17	43	4664	0.091	ng	# 72
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	3401	N.D.		
75) alpha-Pinene	24.15	93	57493	1.054	ng	68
76) n-Propylbenzene	24.28	91	13239	0.097	ng	97
77) 3-Ethyltoluene	24.40	105	38041	0.367	ng	99
78) 4-Ethyltoluene	24.46	105	17647	0.169	ng	92
79) 1,3,5-Trimethylbenzene	24.55	105	14331	0.166	ng	9

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 14:45:43 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

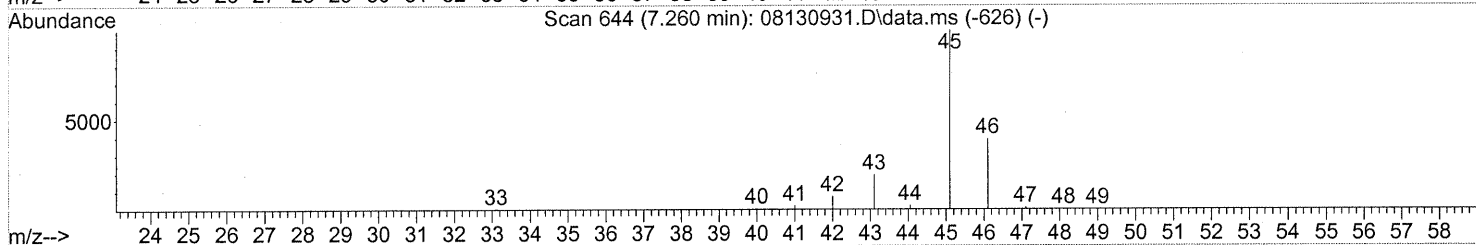
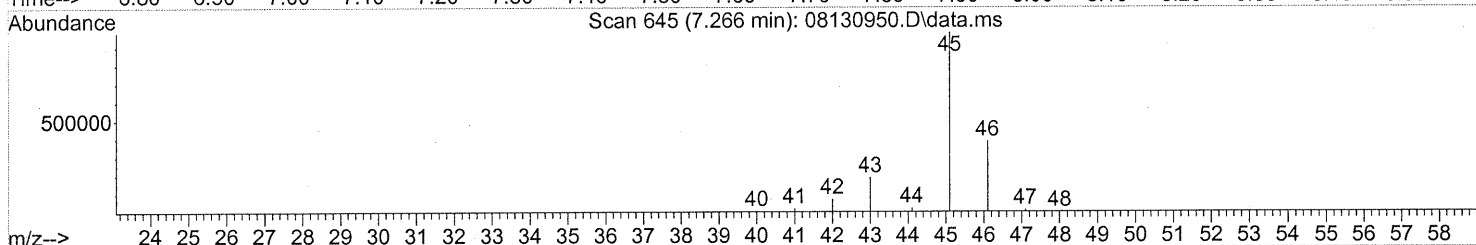
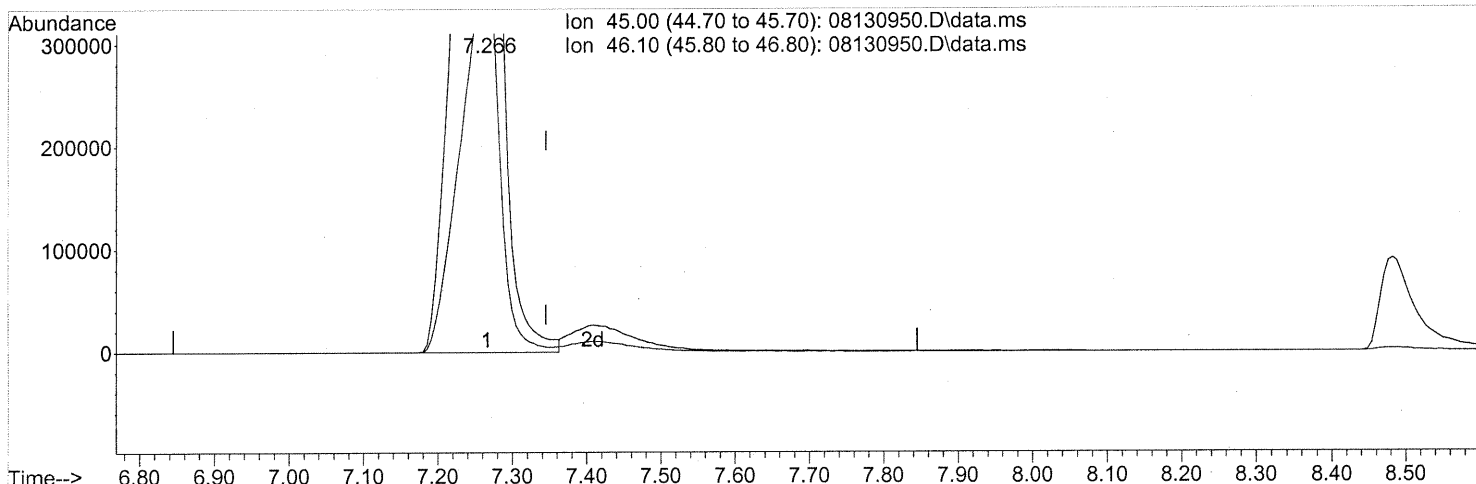
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	25.05	118	120	N.D.		
81) 2-Ethyltoluene	24.79	105	12911	0.121	ng	95
82) 1,2,4-Trimethylbenzene	25.05	105	52626	0.576	ng	88
83) n-Decane	25.19	57	1202	N.D.		
84) Benzyl Chloride	25.33	91	169	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.37	105	642	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	9270	0.080	ng	92
89) 1,2,3-Trimethylbenzene	25.57	105	11764	0.127	ng	94
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.74	68	44130	1.180	ng	96
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5257	0.096	ng	81
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	9191	0.075	ng	93
96) n-Dodecane	27.89	57	4491	0.073	ng	88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	3756	0.120	ng	# 85
99) tert-Butylbenzene	25.05	119	6370	0.070	ng	# 54
100) n-Butylbenzene	26.07	91	3904	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.266min (-0.080) 174.67ng

response 3436054

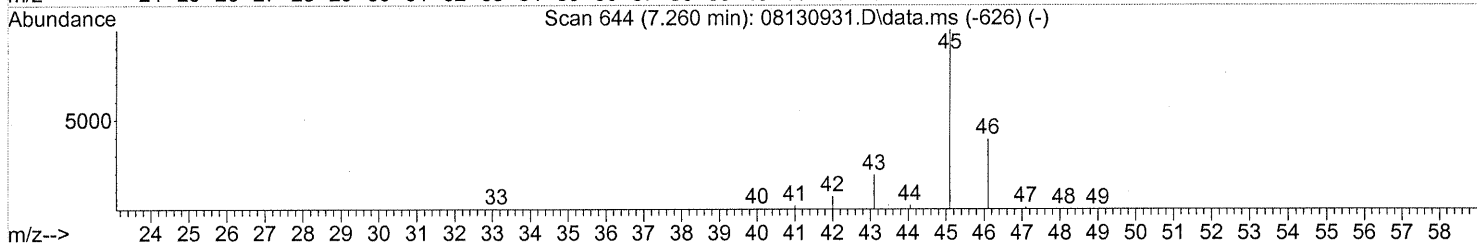
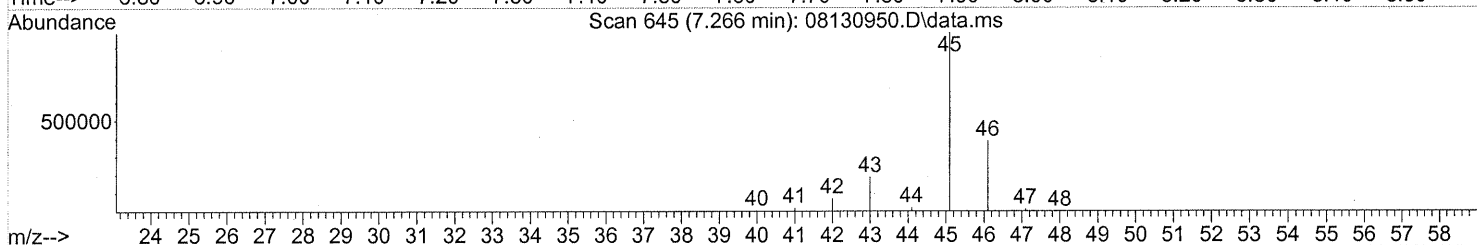
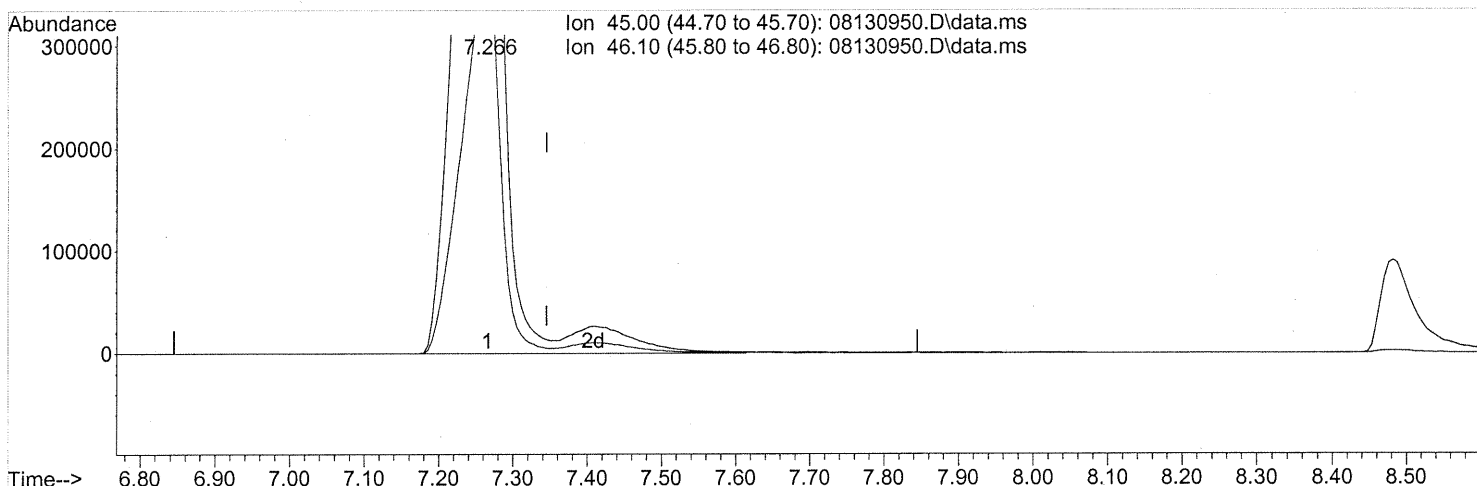
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.35
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130950.D\data.ms

(10) Ethanol (T)

7.266min (-0.080) 182.93ng m

response 3598367

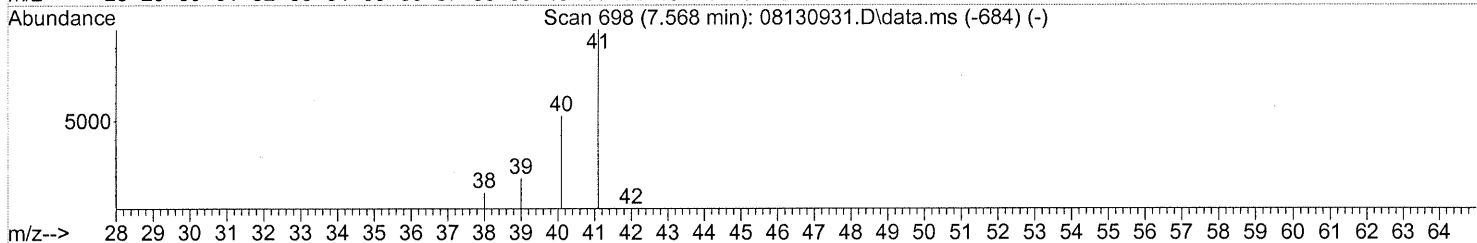
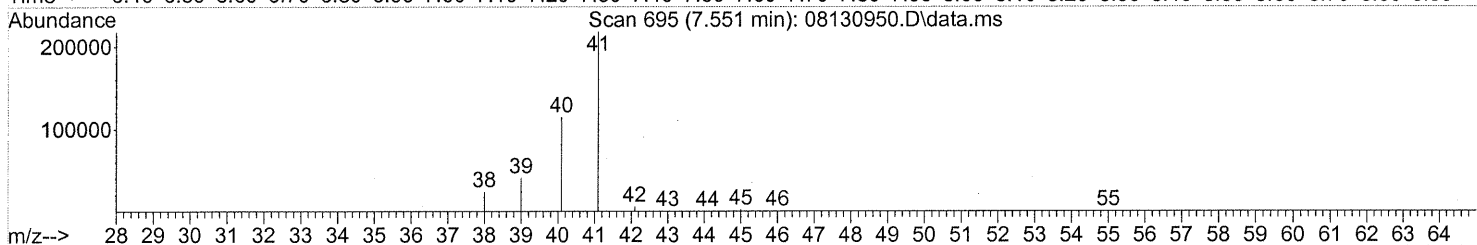
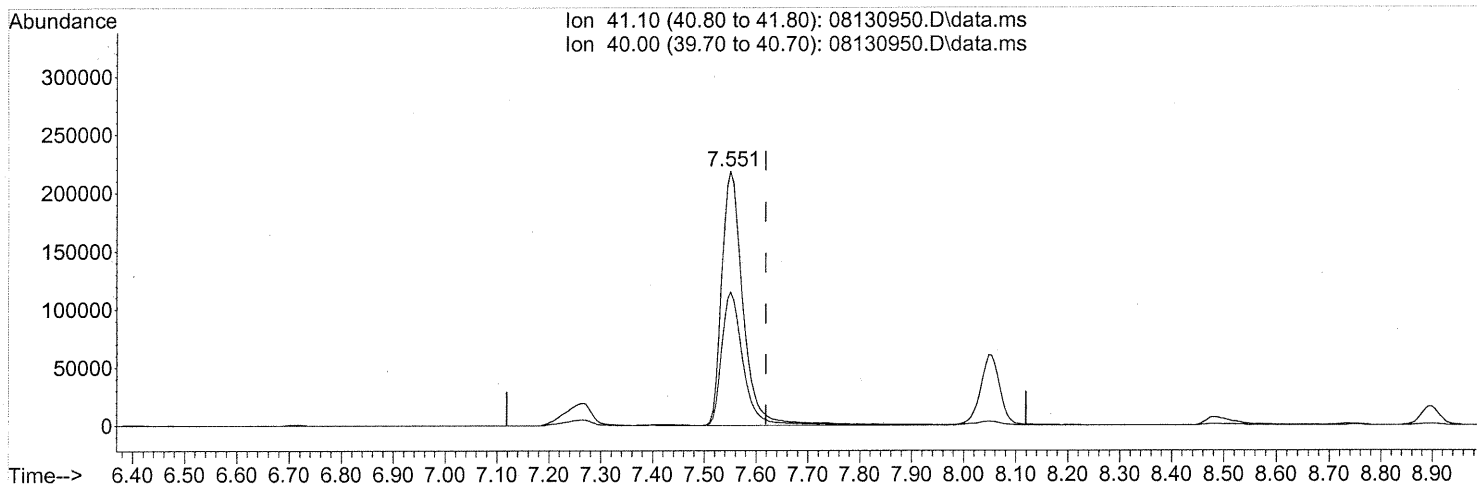
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.58
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 8/17/09
11/8/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130950.D
 Acq On : 14 Aug 2009 19:48
 Operator : EM
 Sample : P0902720-004 dil (100ml)
 Misc : Environmental H & E 100675
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 17 08:25:50 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130950.D\data.ms

(11) Acetonitrile (T)
 7.551min (-0.068) 13.12ng
 response 629850

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.87
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100676

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-005

Test Code: EPA TO-15

Date Collected: 8/6/09

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Date Received: 8/7/09

Analyst: Elsa Moctezuma

Date Analyzed: 8/14/09

Sampling Media: 6.0 L Summa Canister

Volume(s) Analyzed: 1.00 Liter(s)

Test Notes:

0.10 Liter(s)

Container ID: AC00748

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

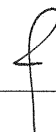
Canister Dilution Factor: 1.65

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.042	
141-78-6	Ethyl Acetate	4.7	1.7	1.3	0.46	
110-54-3	n-Hexane	8.1	0.83	2.3	0.23	
67-66-3	Chloroform	3.1	0.17	0.63	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.83	ND	0.28	
107-06-2	1,2-Dichloroethane	6.9	0.17	1.7	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.030	
71-43-2	Benzene	3.5	0.17	1.1	0.052	
56-23-5	Carbon Tetrachloride	0.85	0.17	0.13	0.026	
110-82-7	Cyclohexane	1.2	0.83	0.35	0.24	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.40	
142-82-5	n-Heptane	3.6	0.83	0.88	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	2.3	0.83	0.57	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.030	
108-88-3	Toluene	28	0.83	7.5	0.22	
591-78-6	2-Hexanone	1.1	0.83	0.27	0.20	
124-48-1	Dibromochloromethane	0.36	0.17	0.042	0.019	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.021	
123-86-4	n-Butyl Acetate	2.4	0.83	0.50	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: _____

8/21/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100676
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-005

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00748

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

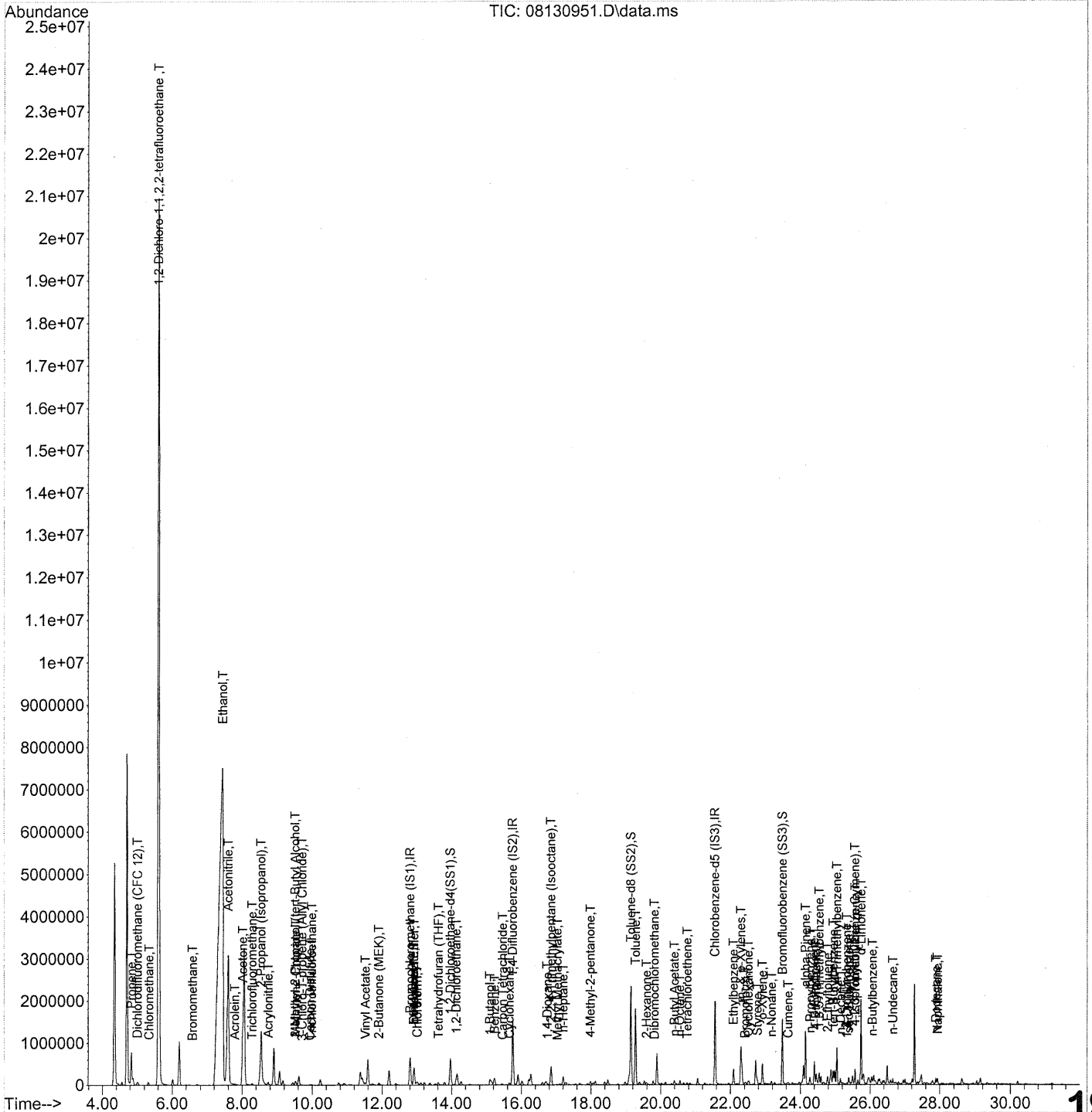
CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.5	0.83	0.33	0.18	
127-18-4	Tetrachloroethene	0.99	0.17	0.15	0.024	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	5.5	0.83	1.3	0.19	
179601-23-1	m,p-Xylenes	17	0.83	4.0	0.19	
75-25-2	Bromoform	1.9	0.83	0.18	0.080	
100-42-5	Styrene	1.1	0.83	0.27	0.19	
95-47-6	o-Xylene	6.7	0.83	1.5	0.19	
111-84-2	n-Nonane	1.1	0.83	0.21	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	alpha-Pinene	19	0.83	3.3	0.15	
103-65-1	n-Propylbenzene	1.6	0.83	0.33	0.17	
622-96-8	4-Ethyltoluene	2.8	0.83	0.56	0.17	
108-67-8	1,3,5-Trimethylbenzene	2.8	0.83	0.57	0.17	
95-63-6	1,2,4-Trimethylbenzene	9.9	0.83	2.0	0.17	
100-44-7	Benzyl Chloride	ND	0.17	ND	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.17	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.027	
5989-27-5	d-Limonene	25	0.83	4.4	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	1.4	0.83	0.27	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.077	

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

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

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:12:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676 ✓
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:12:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	352260	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1796598	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	845259	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.96	65	622815	25.005	ng	-0.03 ✓
Spiked Amount	25.000					Recovery = 100.00%
57) Toluene-d8 (SS2)	19.15	98	2045956	25.461	ng	-0.01 ✓
Spiked Amount	25.000					Recovery = 101.84%
73) Bromofluorobenzene (SS3)	23.49	174	558228	24.530	ng	0.00 ✓
Spiked Amount	25.000					Recovery = 98.12%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	362389	11.728	ng	96
3) Dichlorodifluoromethan...	5.01	85	65858	1.493	ng	99
4) Chloromethane	5.34	50	19807	0.482	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1353	0.058	ng	# 58
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1363	N.D.		
8) Bromomethane	6.58	94	2422	0.114	ng	94
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.44	45	36932294	1905.375	ng	See Dil 99
11) Acetonitrile	7.60	41	6039093	127.666	ng	See Dil 99
12) Acrolein	7.79	56	25060	1.982	ng	97
13) Acetone	8.02	58	880316	44.631	ng	# 1
14) Trichlorofluoromethane	8.29	101	38890	1.031	ng	100
15) 2-Propanol (Isopropanol)	8.55	45	2885464	53.417	ng	94
16) Acrylonitrile	8.75	53	7054	0.246	ng	# 14
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.52	59	32654	0.595	ng	# 1
19) Methylene Chloride	9.53	84	44410	1.805	ng	89
20) 3-Chloro-1-propene (Al...	9.71	41	1680	0.051	ng	# 34
21) Trichlorotrifluoroethane	9.99	151	5742	0.340	ng	99
22) Carbon Disulfide	9.94	76	28606	0.329	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	1399	N.D.		
25) Methyl tert-Butyl Ether	11.38	73	2020	N.D.		
26) Vinyl Acetate	11.53	86	10697m	2.504	ng	
27) 2-Butanone (MEK)	11.90	72	25889	1.883	ng	# 85
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.92	87	2633	0.135	ng	# 1
30) Ethyl Acetate	12.92	61	25272	2.834	ng	92
31) n-Hexane	12.92	57	213709	4.916	ng	91

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em 8/18/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:12:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	68114	1.872 ng		99
34) Tetrahydrofuran (THF)	13.62	72	6190	0.433 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	116832	4.197 ng		99
38) 1,1,1-Trichloroethane	14.53	97	229	N.D.		
39) Isopropyl Acetate	15.10	61	355	N.D.		
40) 1-Butanol	15.10	56	124098	5.330 ng		84
41) Benzene	15.23	78	205330	2.125 ng		98
42) Carbon Tetrachloride	15.46	117	13889	0.514 ng		97
43) Cyclohexane	15.65	84	27259	0.729 ng		92
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.45	63	106	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.	d	
47) Trichloroethene	16.78	130	615	N.D.		
48) 1,4-Dioxane	16.75	88	972	0.057 ng	#	51
49) 2,2,4-Trimethylpentane...	16.85	57	522357	4.698 ng		97
50) Methyl Methacrylate	17.04	100	1400	0.145 ng	#	1
51) n-Heptane	17.21	71	56456	2.195 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.99	58	29519	1.414 ng		90
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.77	97	670	N.D.		
58) Toluene	19.28	91	1659741	17.039 ng		100
59) 2-Hexanone	19.59	43	33390	0.660 ng	#	54
60) Dibromochloromethane	19.82	129	4537	0.218 ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	78938	1.429 ng		91
63) n-Octane	20.55	57	19997	0.921 ng		89
64) Tetrachloroethene	20.76	166	14439	0.597 ng		98
65) Chlorobenzene	21.66	112	2743	N.D.		
66) Ethylbenzene	22.09	91	350911	3.337 ng		98
67) m- & p-Xylenes	22.30	91	868051	10.411 ng		99
68) Bromoform	22.42	173	20747	1.149 ng		99
69) Styrene	22.77	104	42708	0.693 ng		97
70) o-Xylene	22.92	91	340932	4.065 ng		98
71) n-Nonane	23.17	43	33920	0.672 ng		90
72) 1,1,2,2-Tetrachloroethane	22.92	83	694	N.D.		
74) Cumene	23.65	105	31795	0.292 ng		97
75) alpha-Pinene	24.15	93	601974	11.219 ng		99
76) n-Propylbenzene	24.28	91	131938	0.982 ng		94
77) 3-Ethyltoluene	24.40	105	377800	3.708 ng		99
78) 4-Ethyltoluene	24.45	105	172125	1.681 ng		96
79) 1,3,5-Trimethylbenzene	24.55	105	144982	1.712 ng		99

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:12:45 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

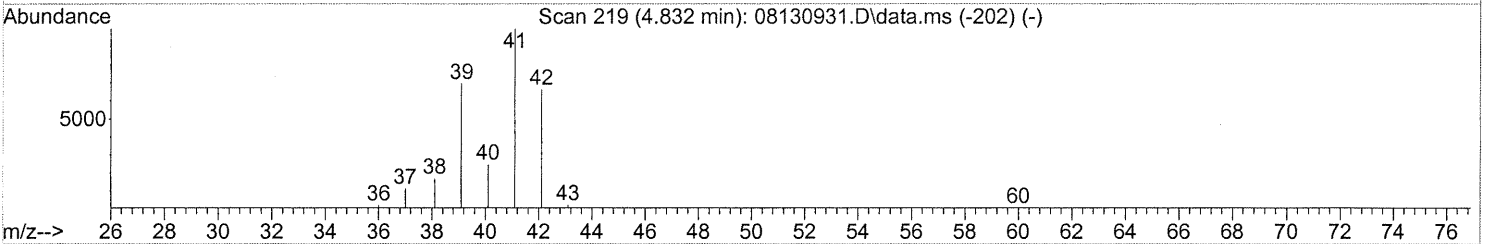
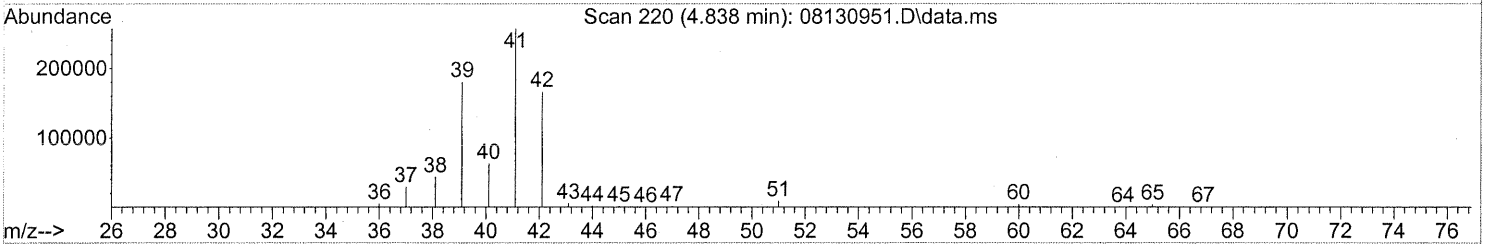
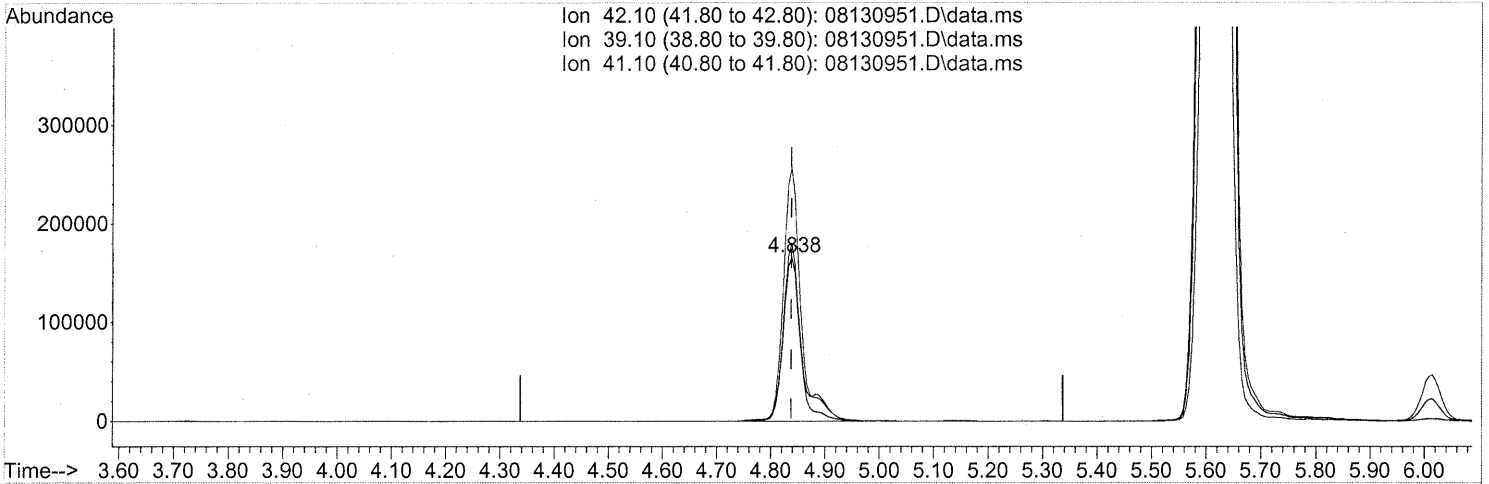
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	1831	N.D.		
81) 2-Ethyltoluene	24.79	105	125489	1.193 ng		99
82) 1,2,4-Trimethylbenzene	25.05	105	537678	5.980 ng		89
83) n-Decane	25.15	57	48550	0.928 ng		97
84) Benzyl Chloride	25.21	91	904	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	2742	0.059 ng		99
86) 1,4-Dichlorobenzene	25.33	146	2742	0.056 ng		99
87) sec-Butylbenzene	25.39	105	7688	0.065 ng	#	77
88) 4-Isopropyltoluene (p-...	25.56	119	88918	0.783 ng		92
89) 1,2,3-Trimethylbenzene	25.57	105	121146	1.333 ng		96
90) 1,2-Dichlorobenzene	25.33	146	2742	0.059 ng		99
91) d-Limonene	25.74	68	549146	14.927 ng		97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	40838	0.755 ng		90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	104066	0.863 ng		94
96) n-Dodecane	27.89	57	42404	0.700 ng		97
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	39961	1.303 ng		96
99) tert-Butylbenzene	24.95	119	7276	0.082 ng		98
100) n-Butylbenzene	26.07	91	41360	0.439 ng	#	63

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(2) Propene (T)

4.838min (+0.000) 11.73ng

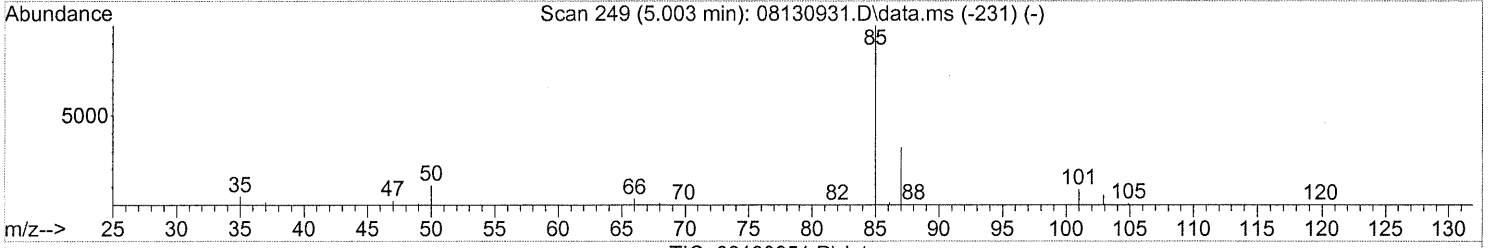
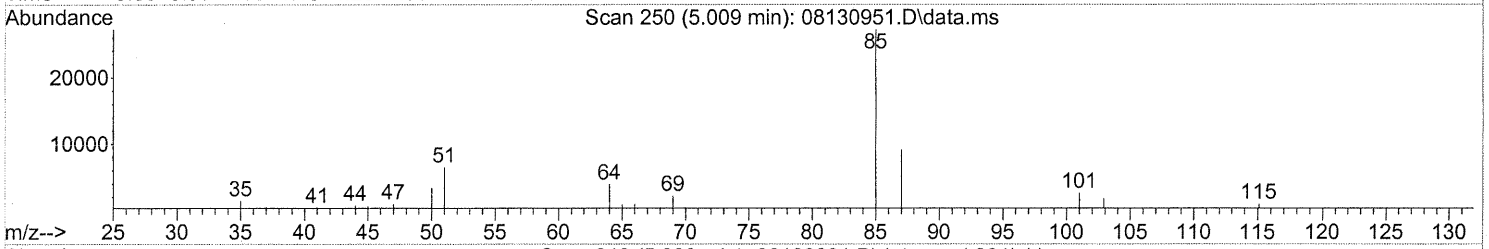
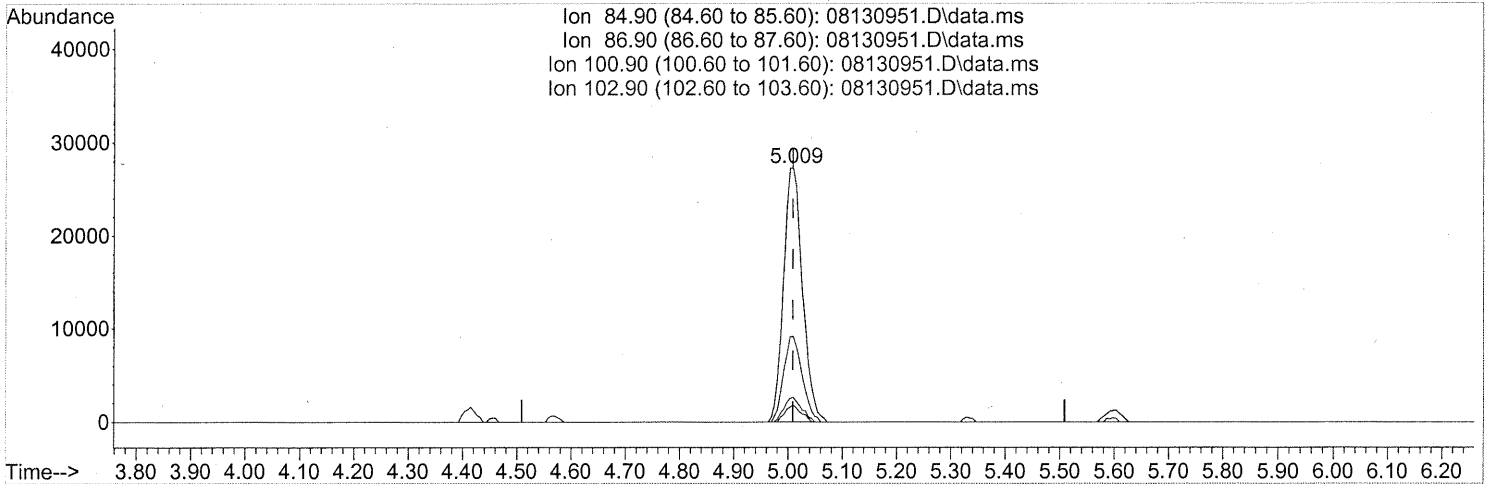
response 362389

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	117.64
41.10	152.70	159.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (+0.000) 1.49ng

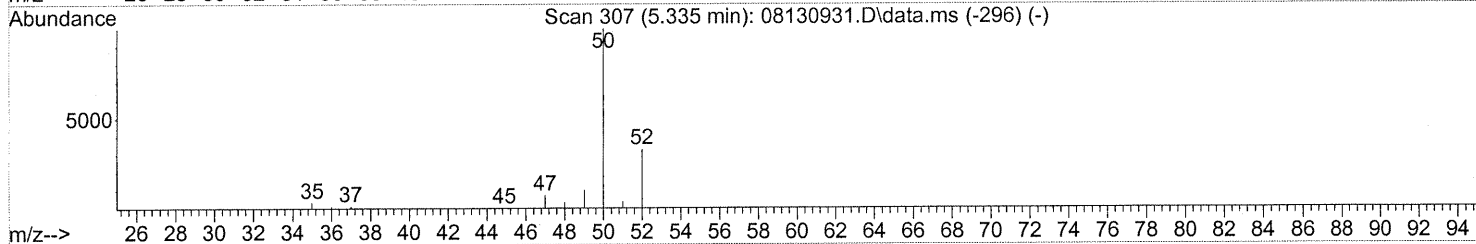
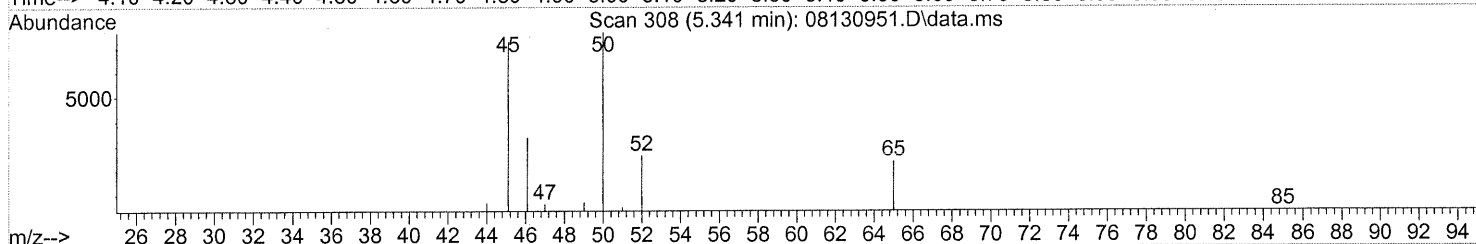
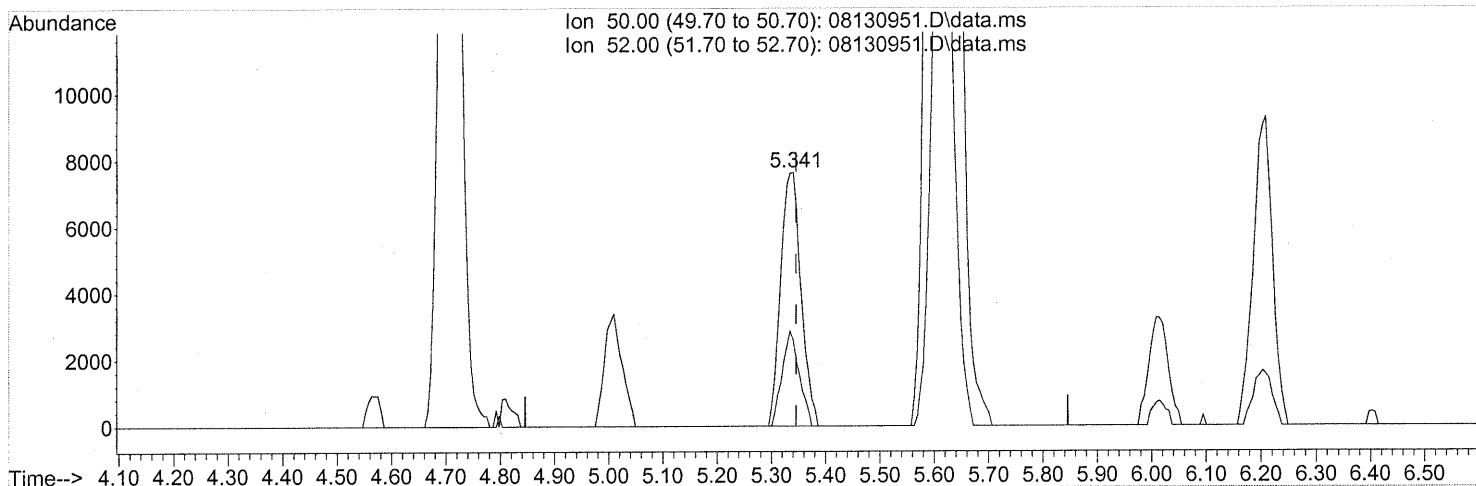
response 65858

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.96
100.90	9.10	8.83
102.90	5.50	5.38

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(4) Chloromethane (T)

5.341min (-0.006) 0.48ng

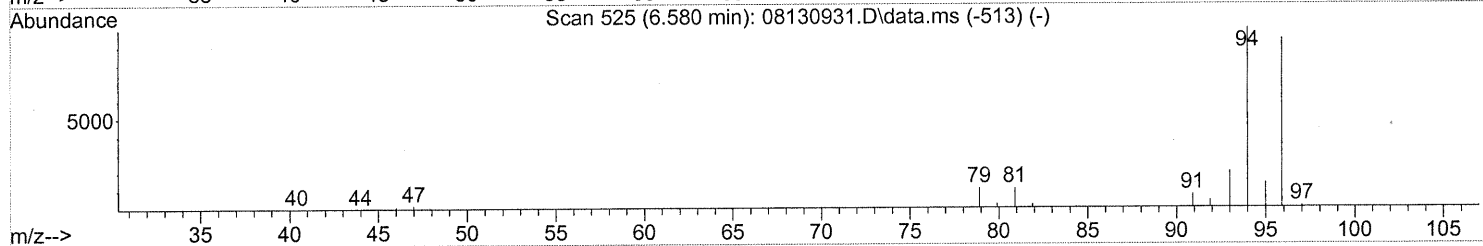
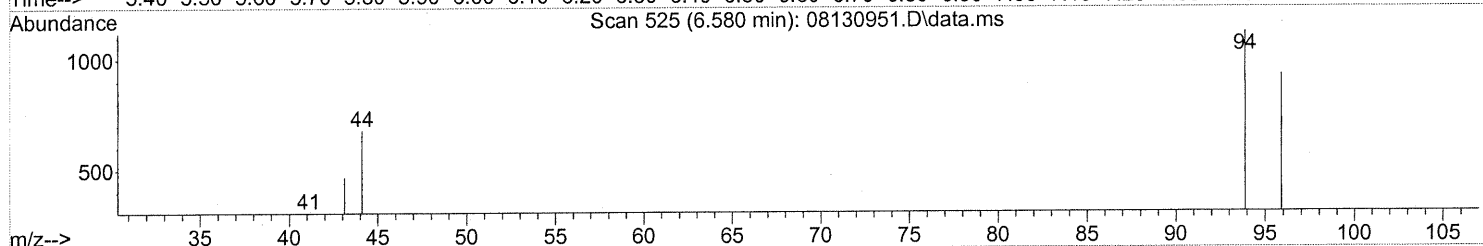
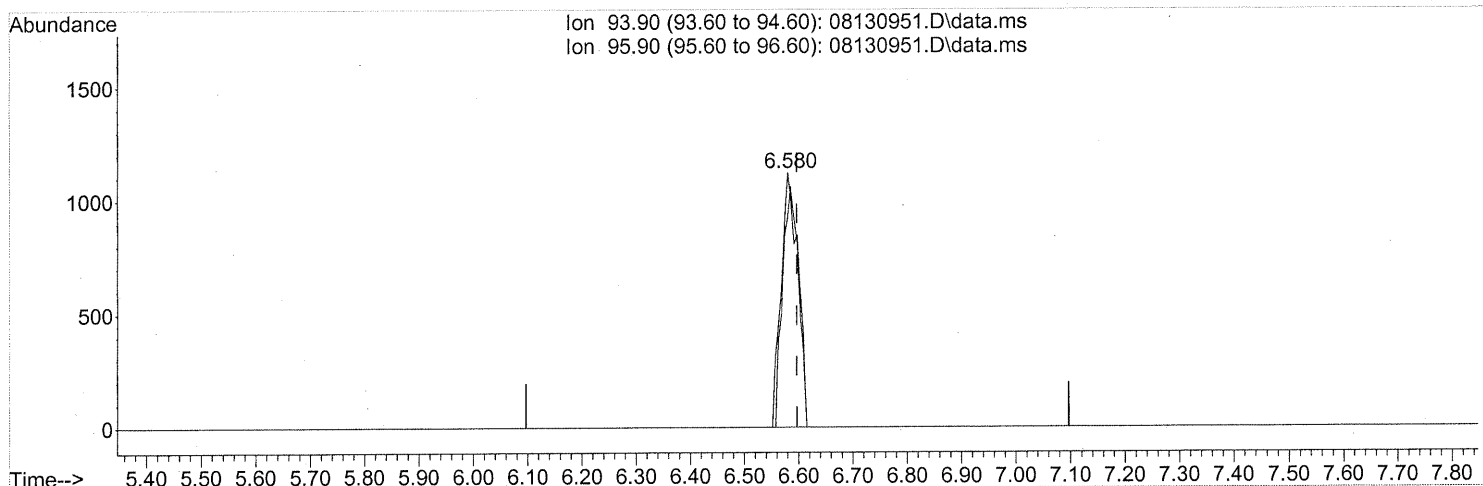
response 19807

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	31.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(8) Bromomethane (T)

6.580min (-0.017) 0.11ng

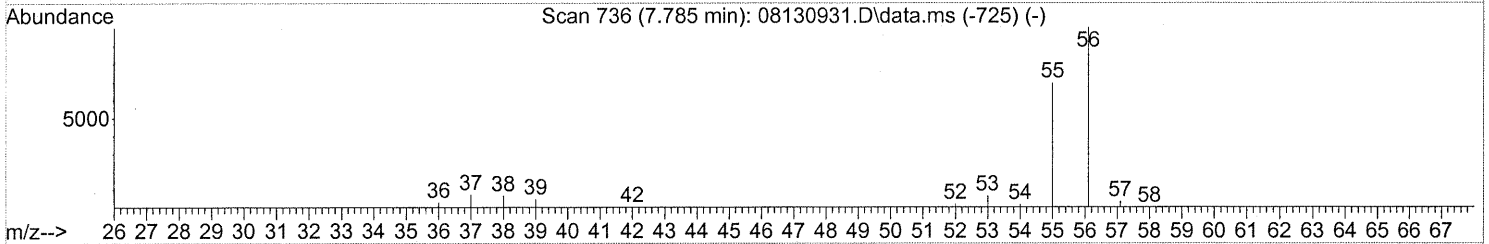
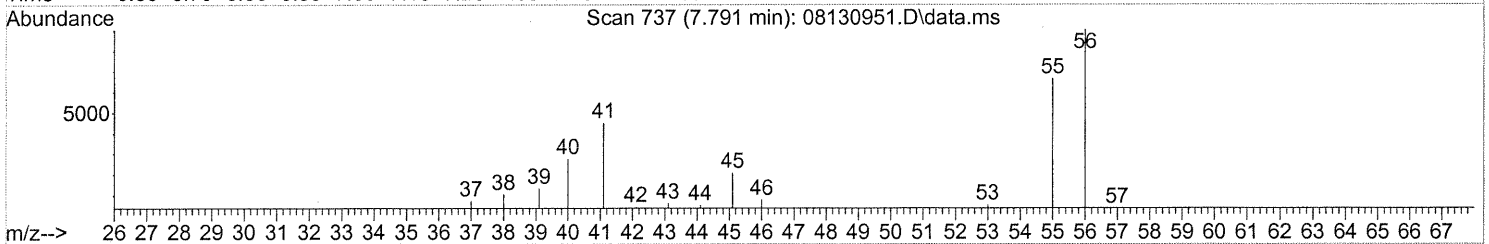
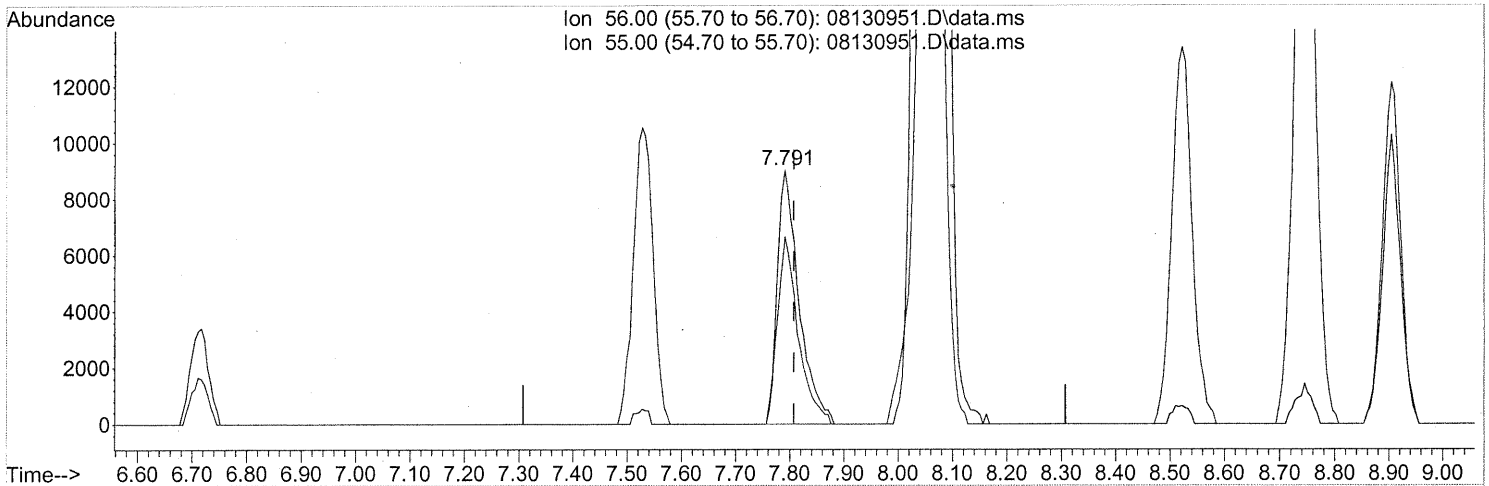
response 2422

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	88.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(12) Acrolein (T)

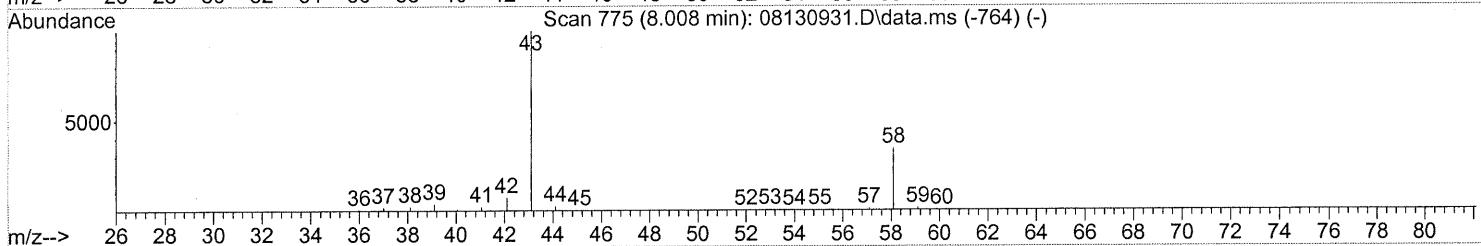
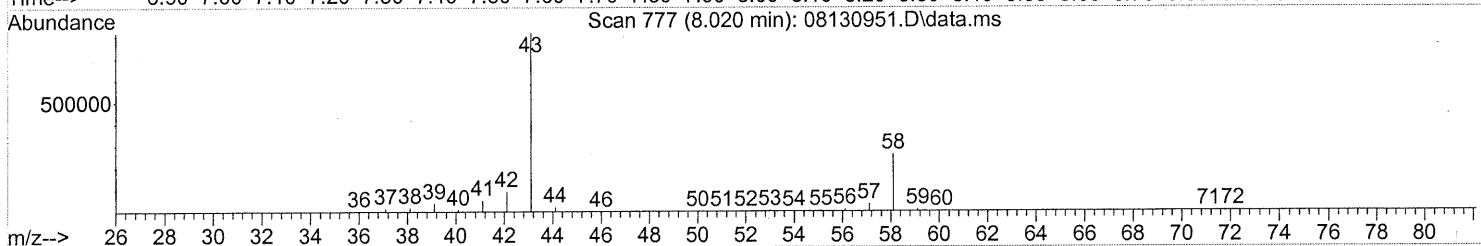
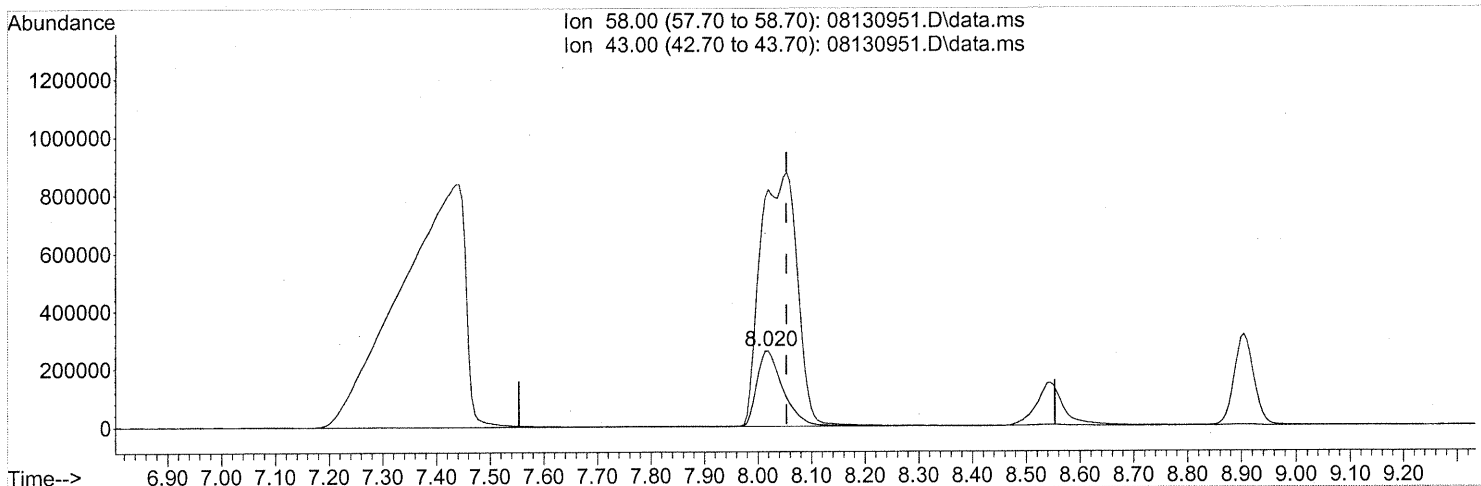
7.791min (-0.017) 1.98ng
 response 25060

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	70.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(13) Acetone (T)

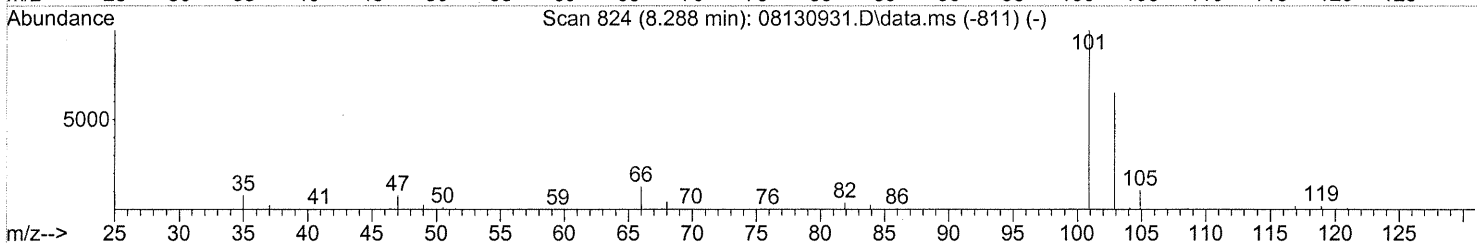
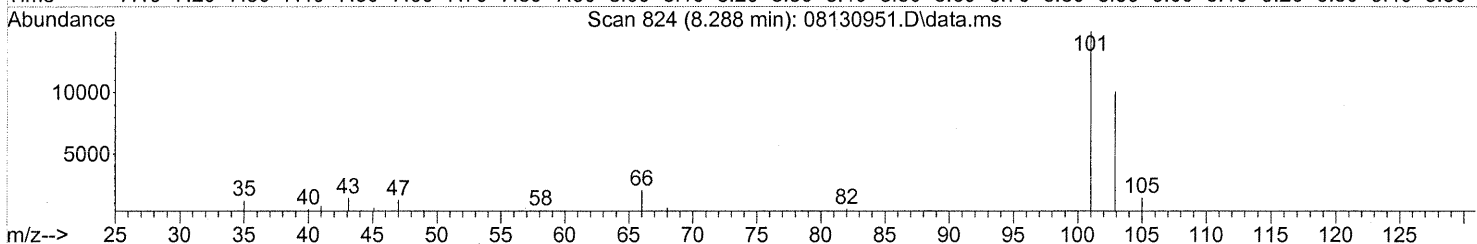
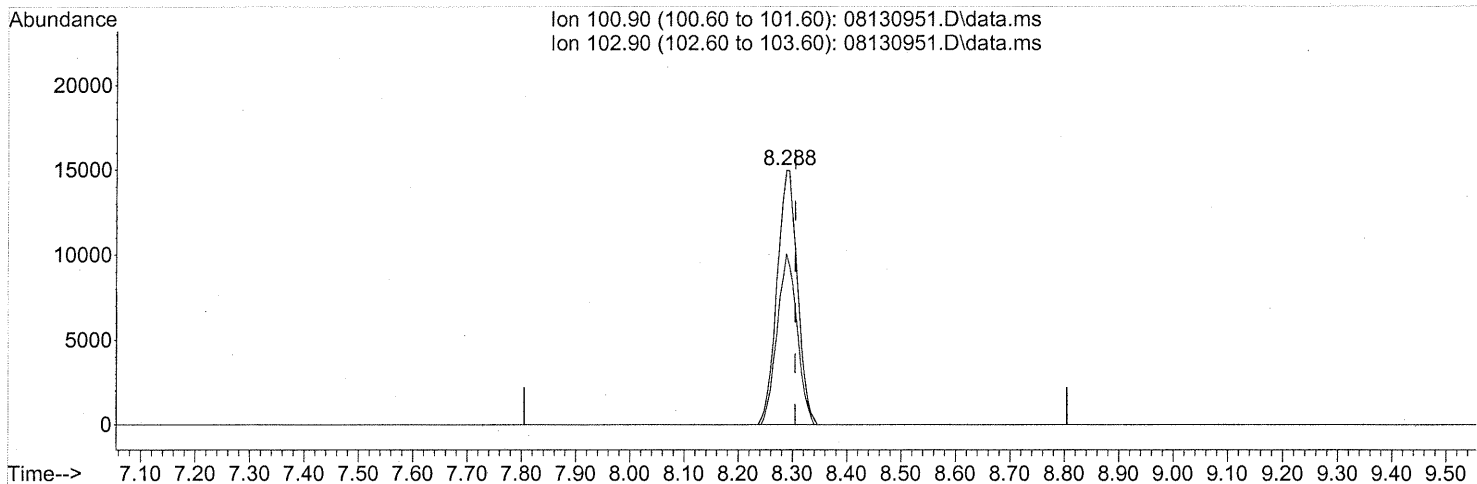
8.020min (-0.034) 44.63ng
 response 880316

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 1.03ng

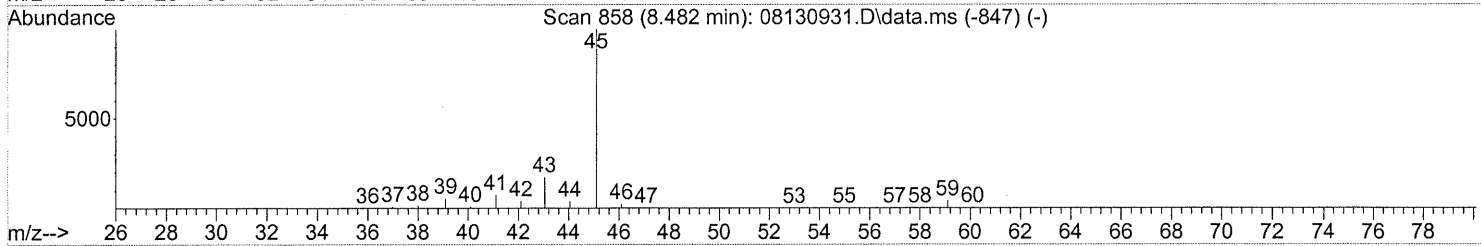
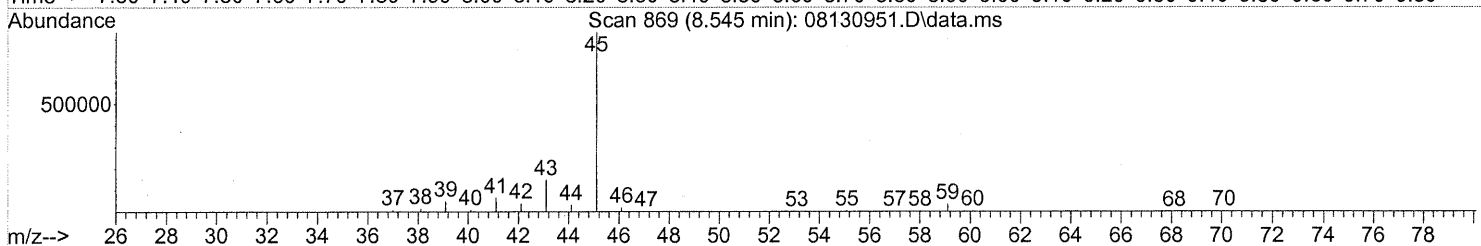
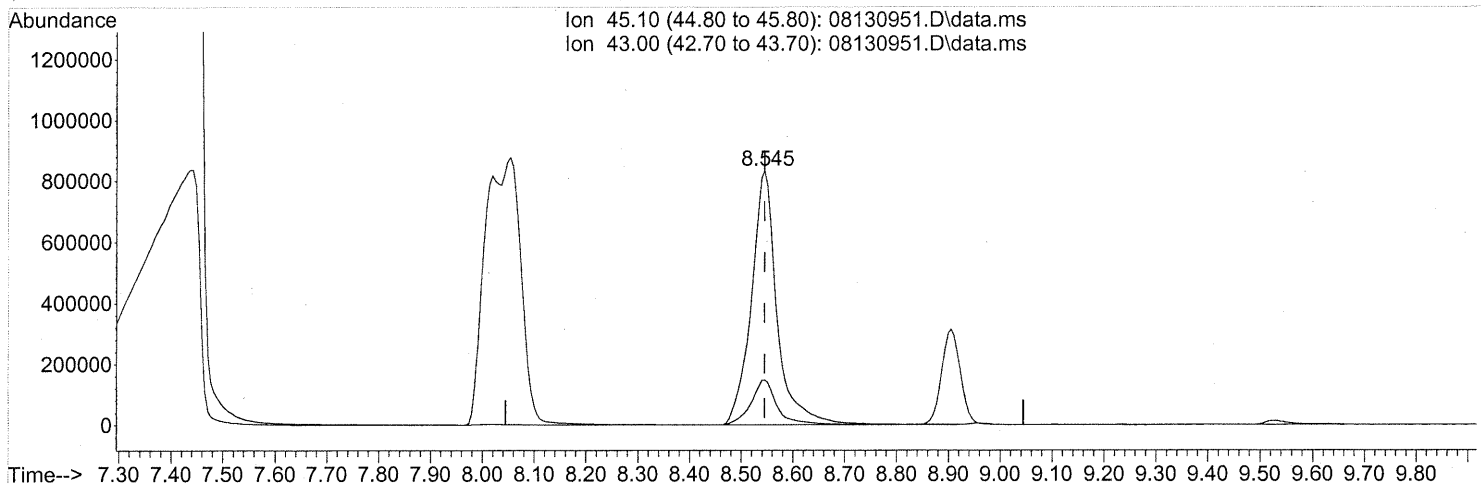
response 38890

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	65.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

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

8.545min (+0.000) 53.42ng

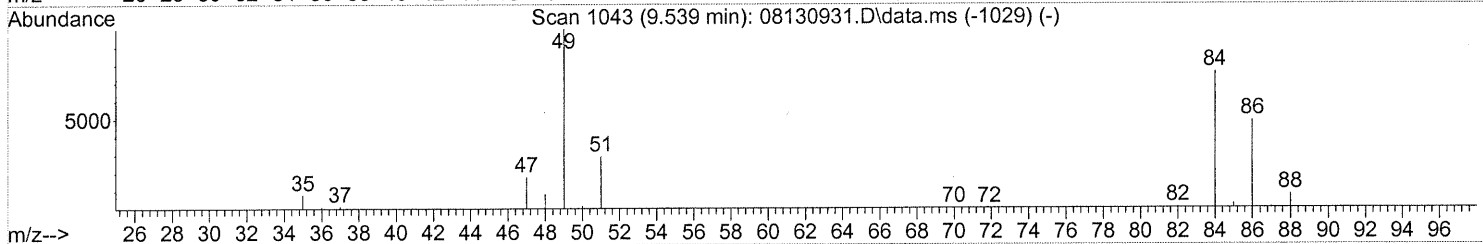
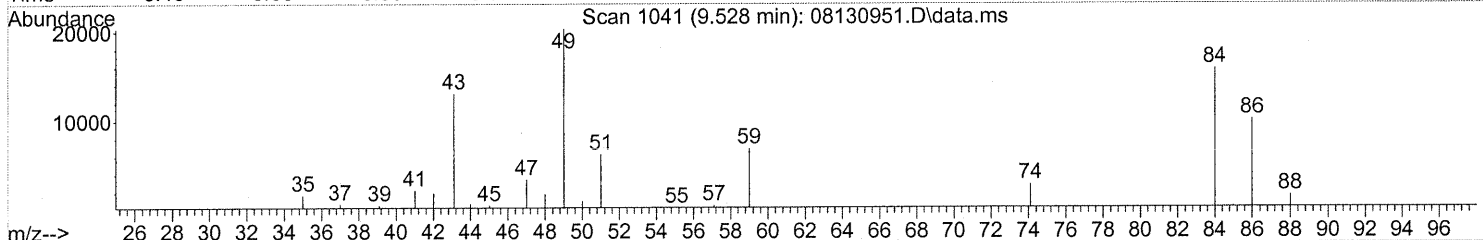
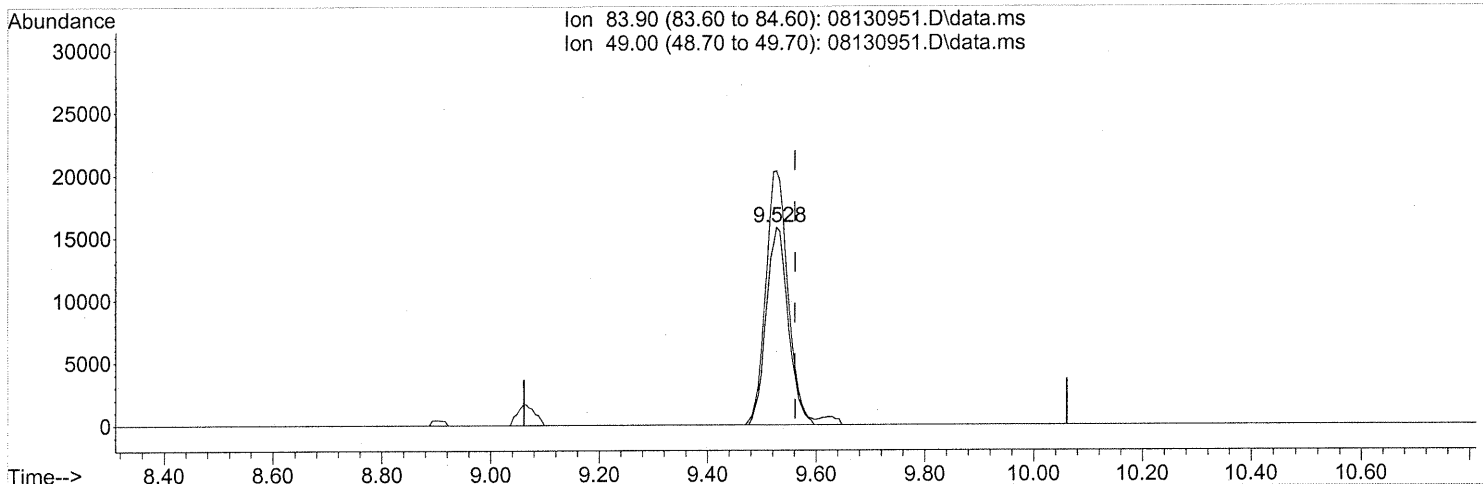
response 2885464

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(19) Methylene Chloride (T)

9.528min (-0.034) 1.80ng

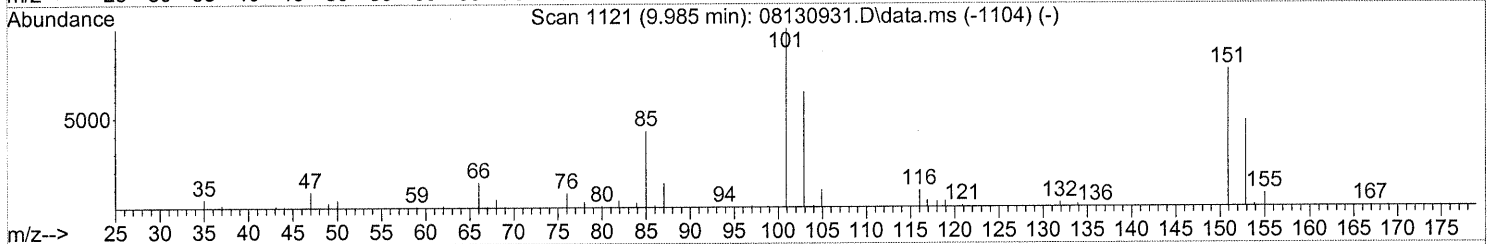
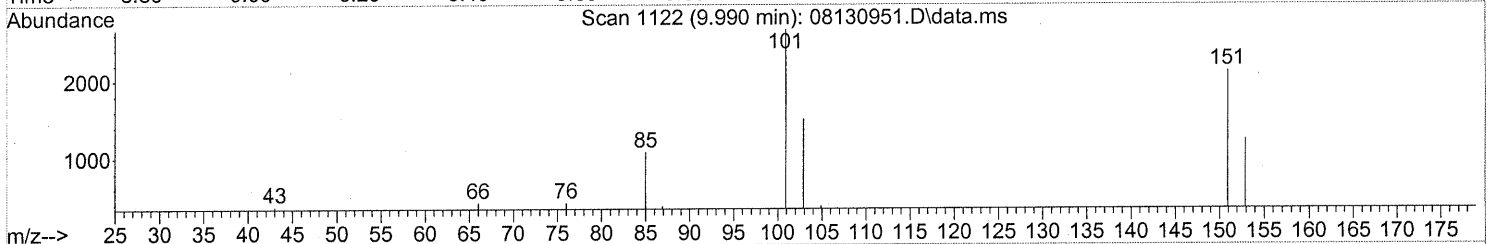
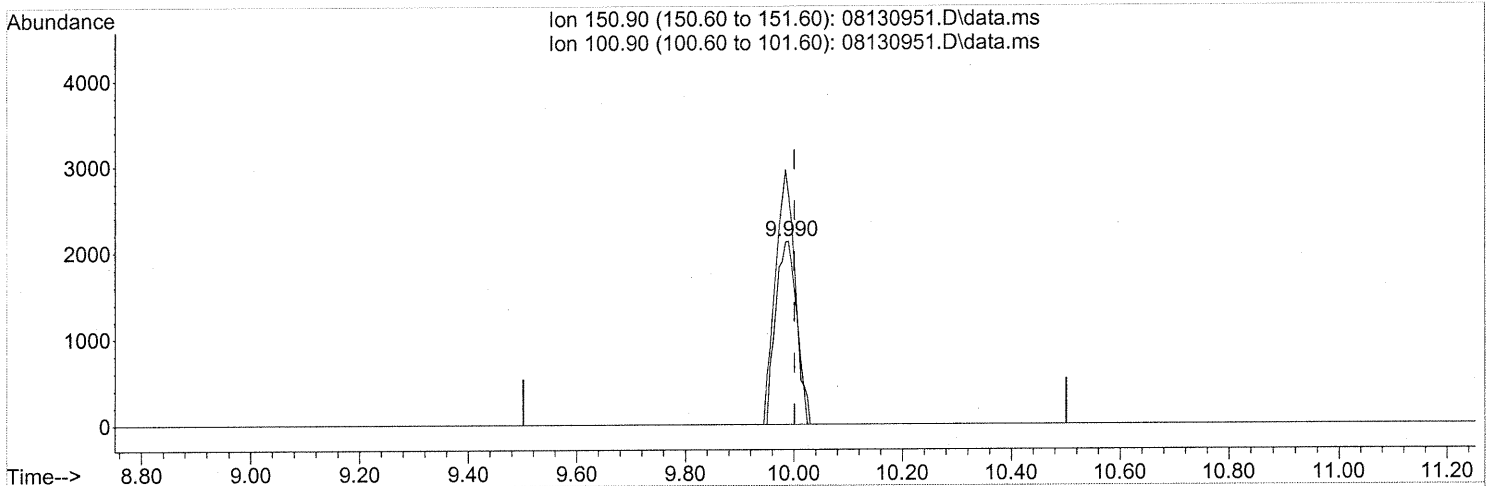
response 44410

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	130.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.990min (-0.011) 0.34ng

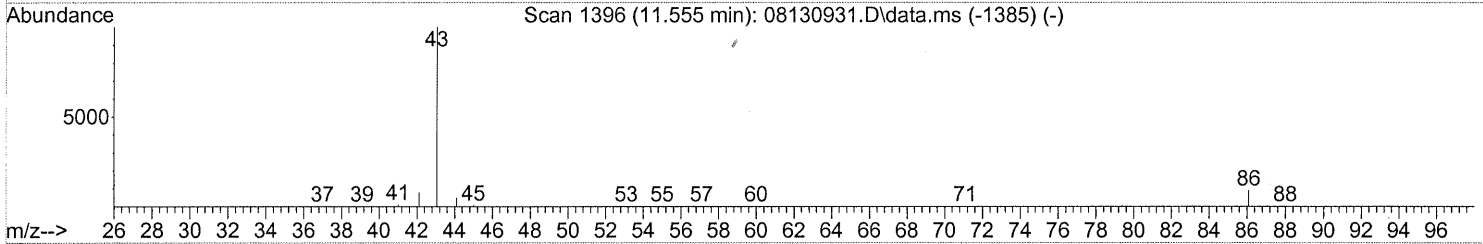
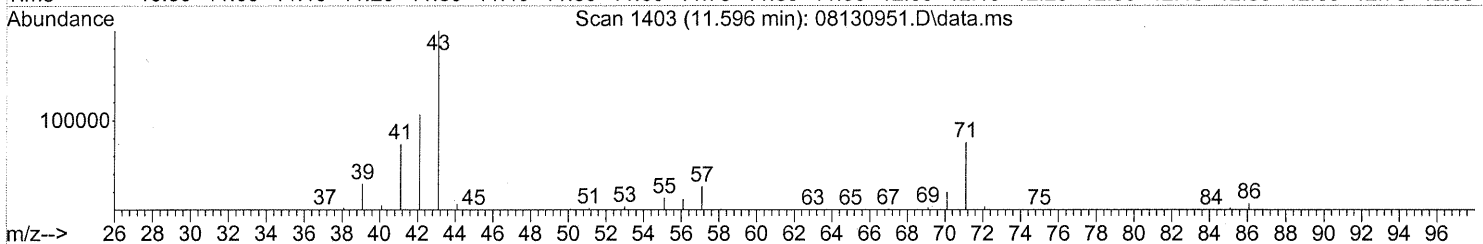
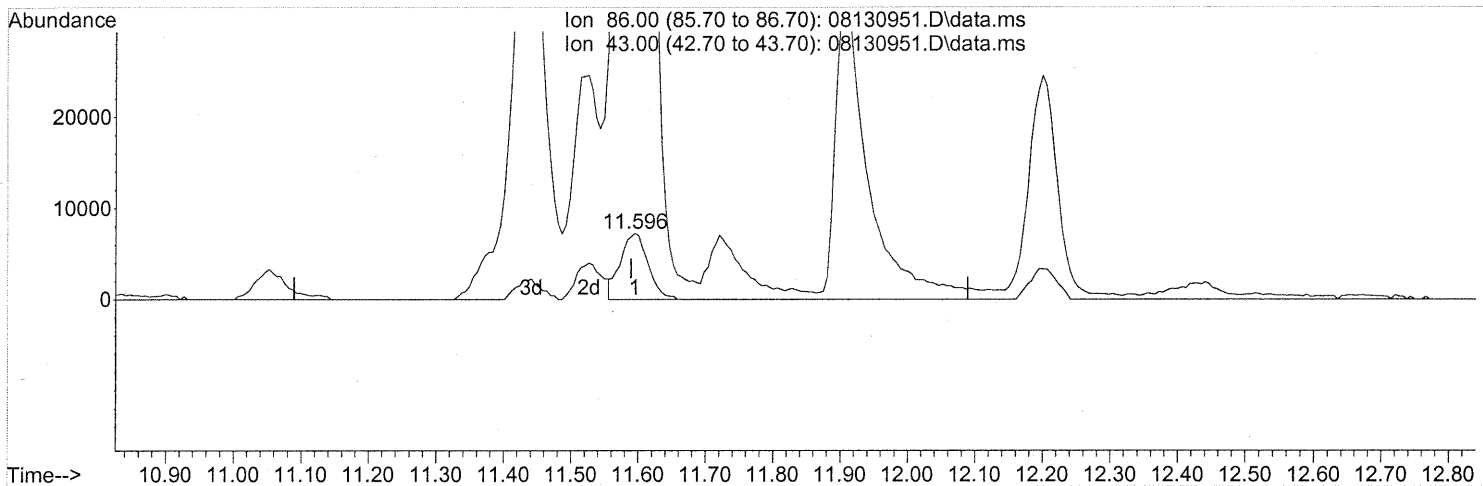
response 5742

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	128.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130951.D
Acq On : 14 Aug 2009 20:30
Operator : EM
Sample : P0902720-005 (1000ml)
Misc : Environmental H & E 100676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.596min (+0.006) 4.85ng

response 20720

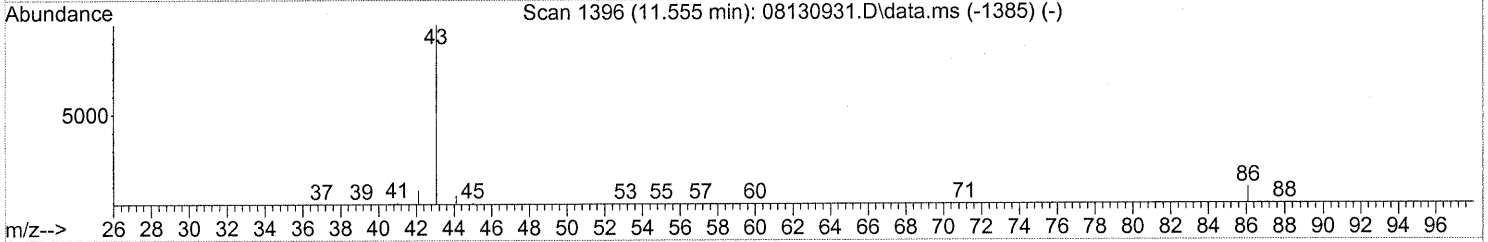
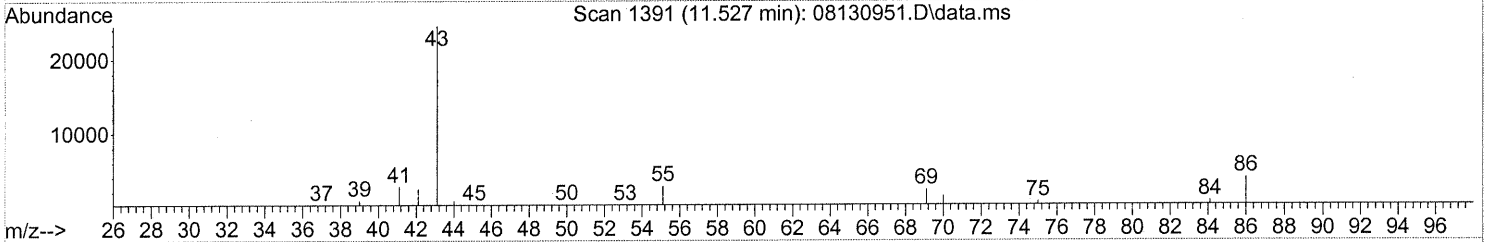
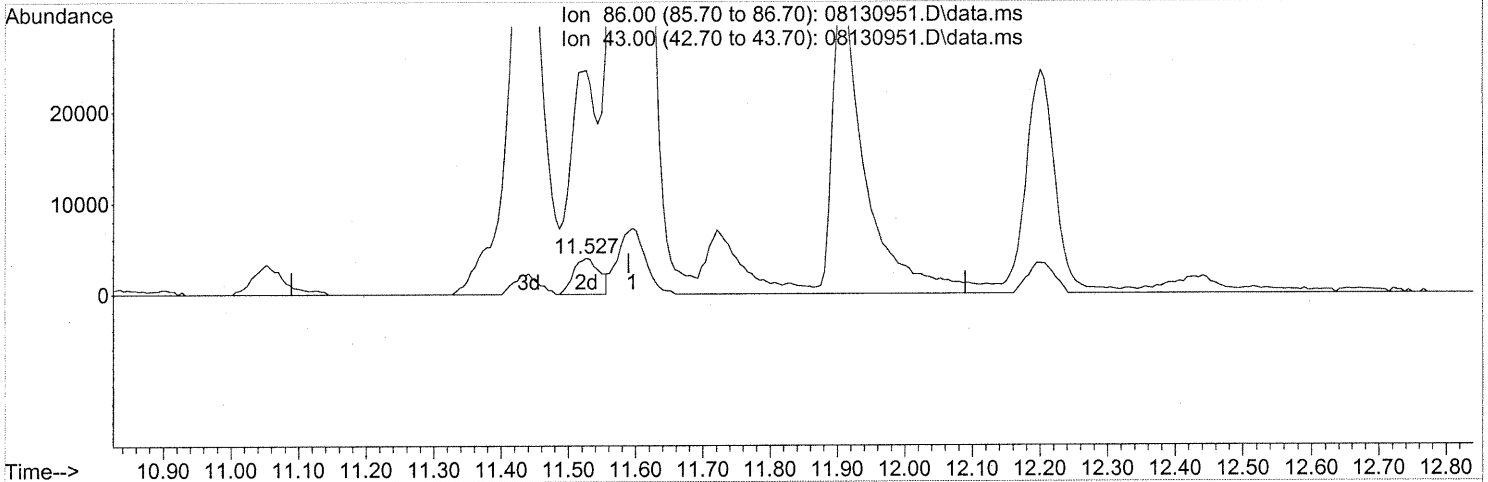
Ion	Exp%	Act%
86.00	100	100
43.00	992.90	2668.01#
0.00	0.00	0.00
0.00	0.00	0.00

MP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130951.D
Acq On : 14 Aug 2009 20:30
Operator : EM
Sample : P0902720-005 (1000ml)
Misc : Environmental H & E 100676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130951.D\data.ms

(26) Vinyl Acetate (T)
11.527min (-0.063) 2.50ng m
response 10697

<RL

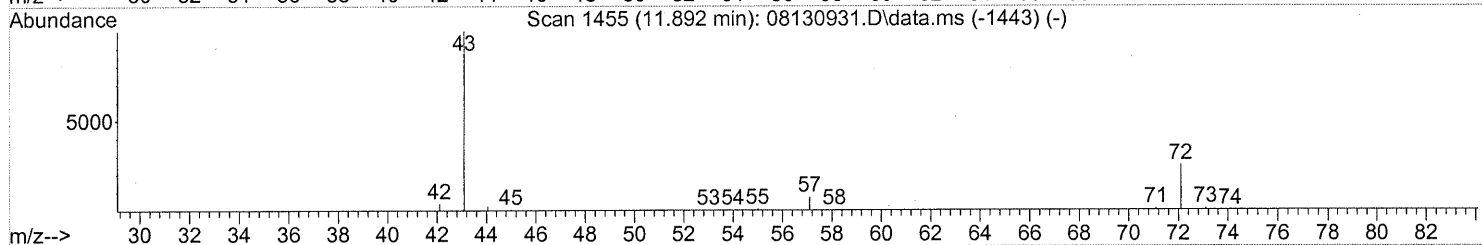
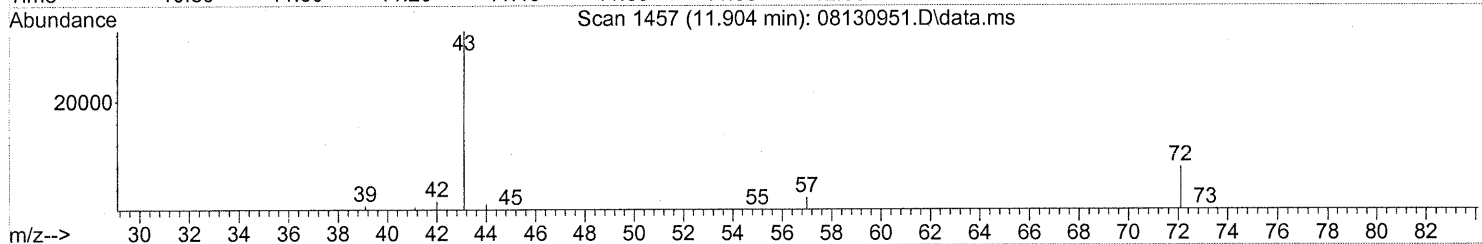
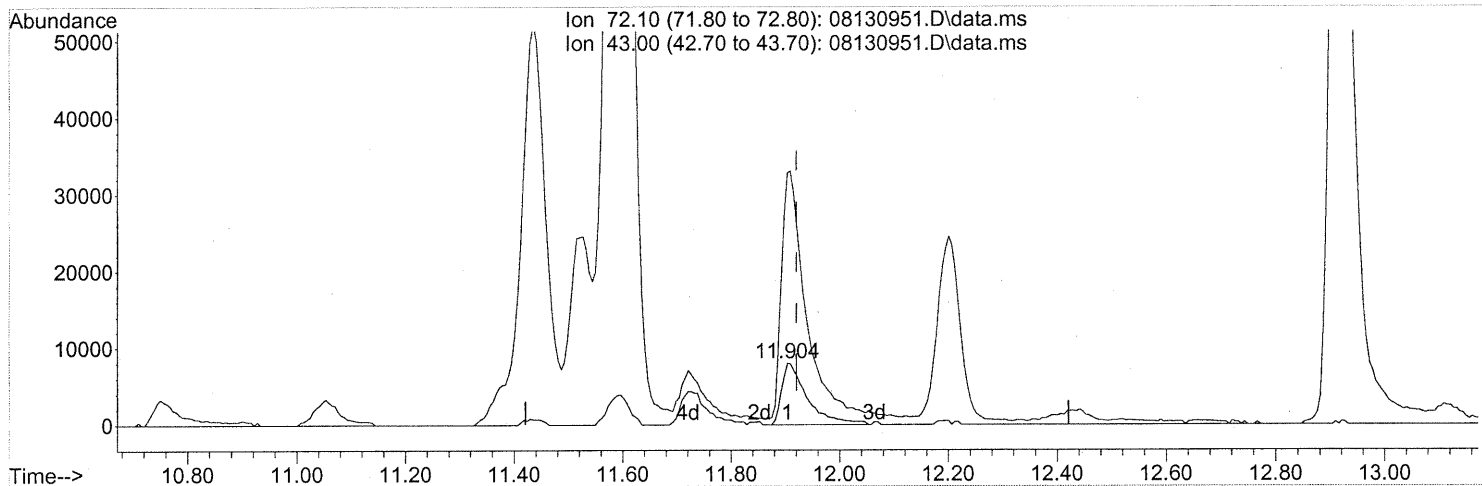
MP → IC
Em 8/17/09
WA 8/18/09

Ion	Exp%	Act%
86.00	100	100
43.00	992.90	5167.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

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

11.904min (-0.017) 1.88ng

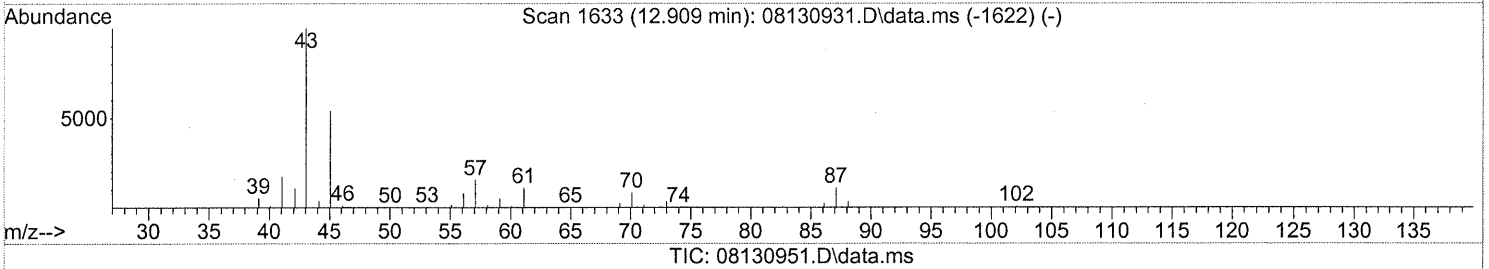
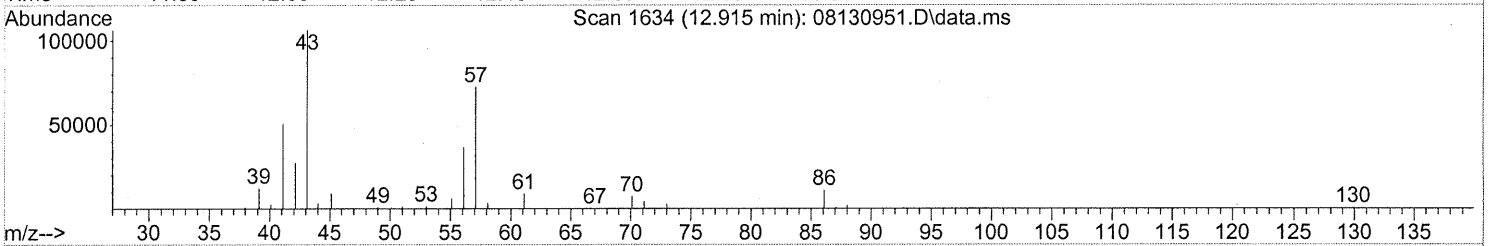
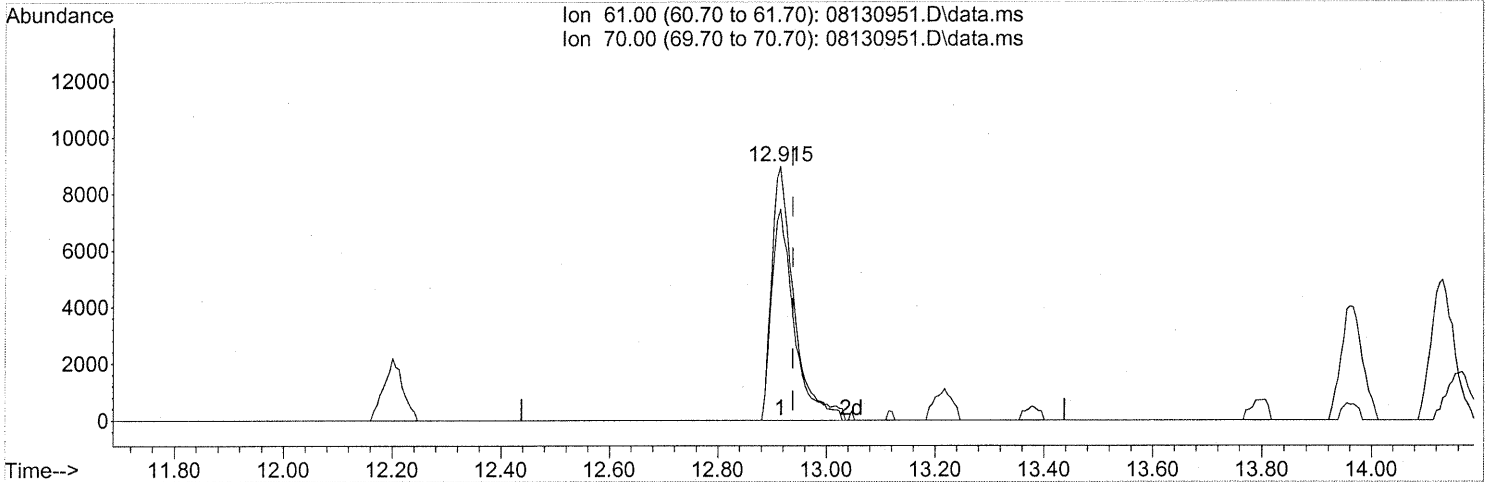
response 25889

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	399.44#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



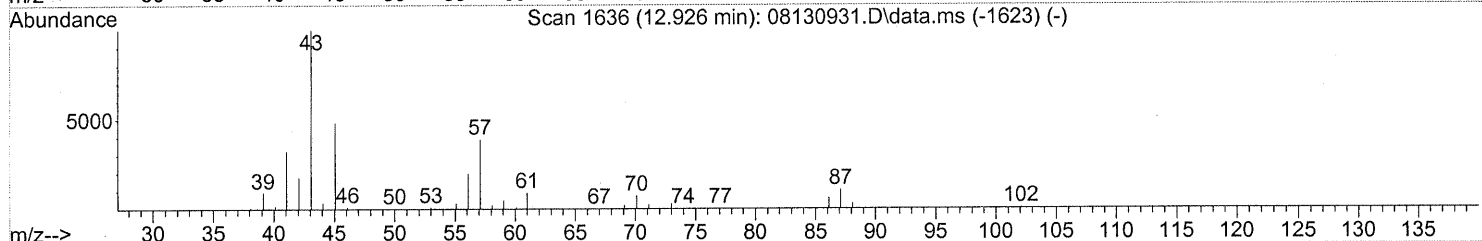
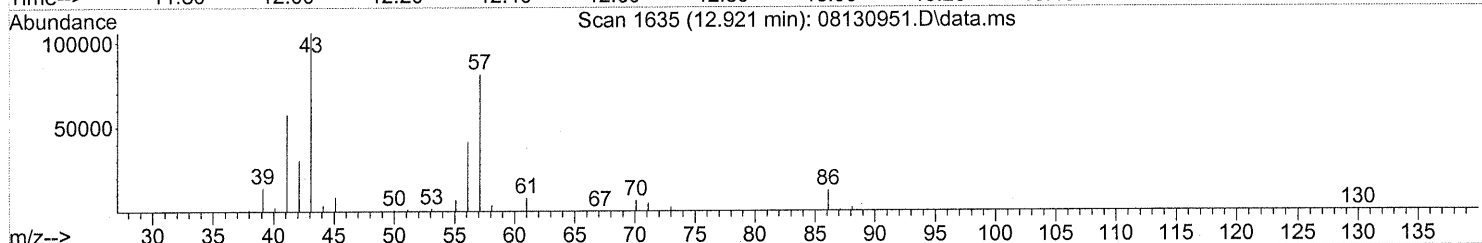
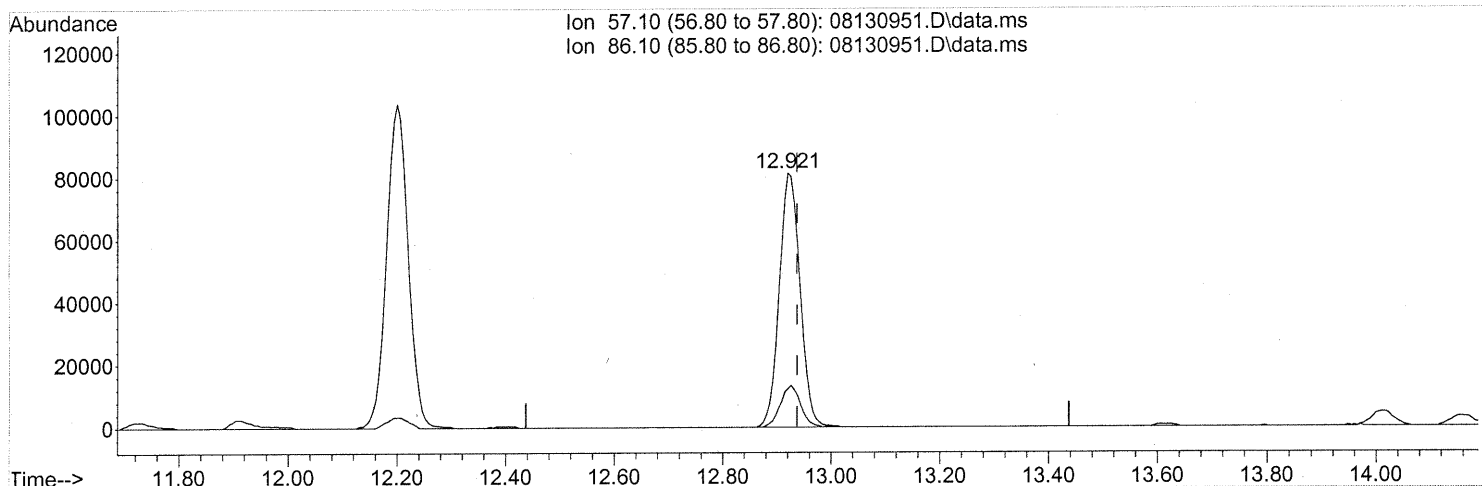
(30) Ethyl Acetate (T)
 12.915min (-0.023) 2.83ng
 response 25272

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	85.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(31) n-Hexane (T)

12.921min (-0.017) 4.92ng

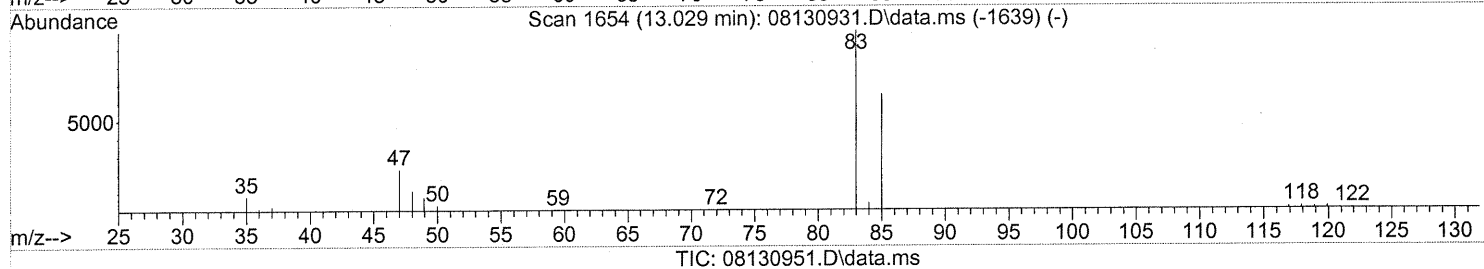
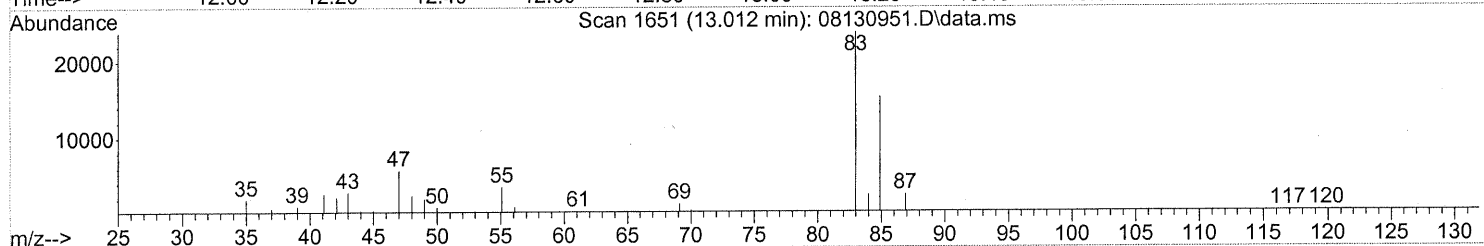
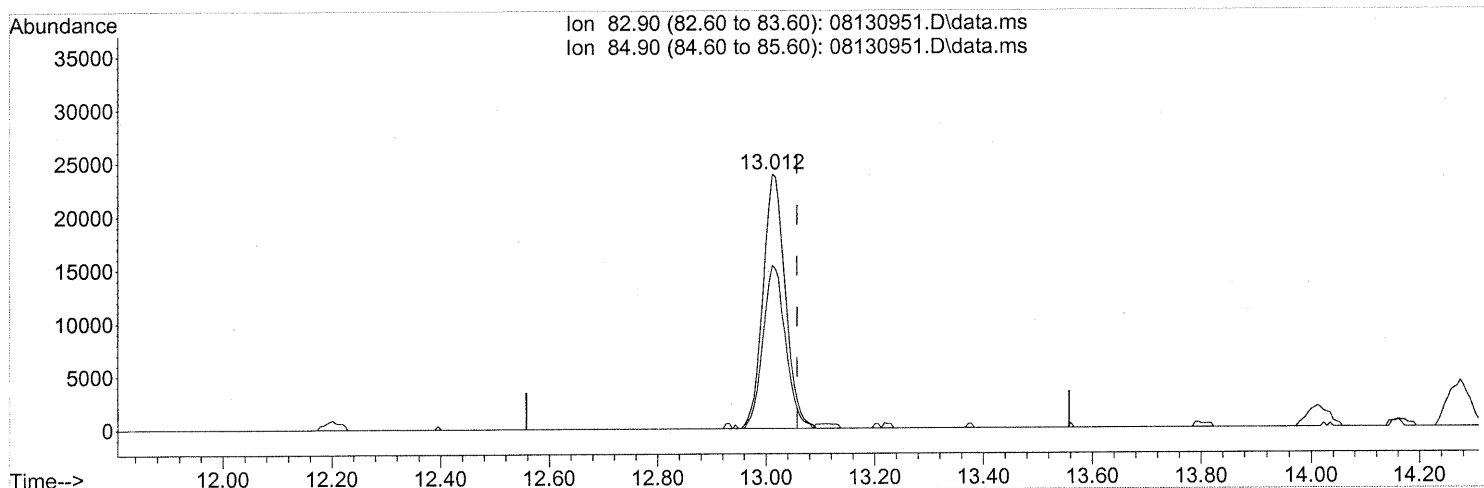
response 213709

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



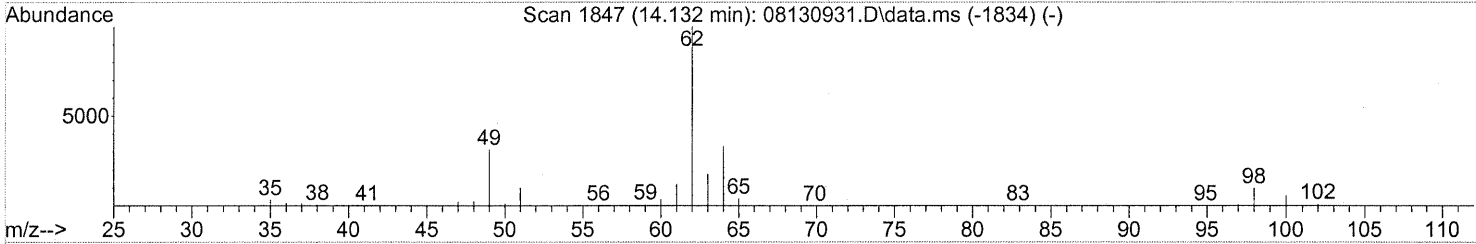
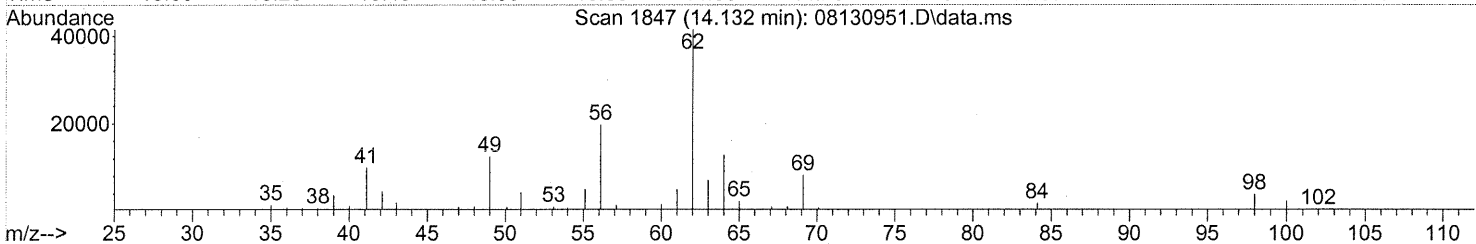
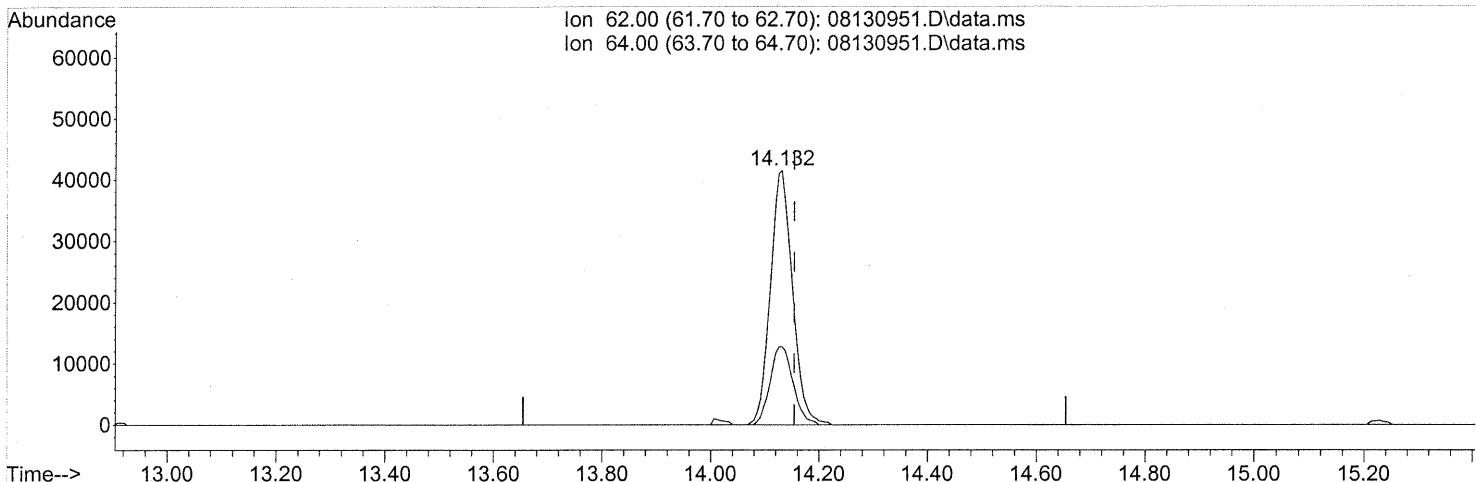
(32) Chloroform (T)
 13.012min (-0.046) 1.87ng
 response 68114

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 4.20ng

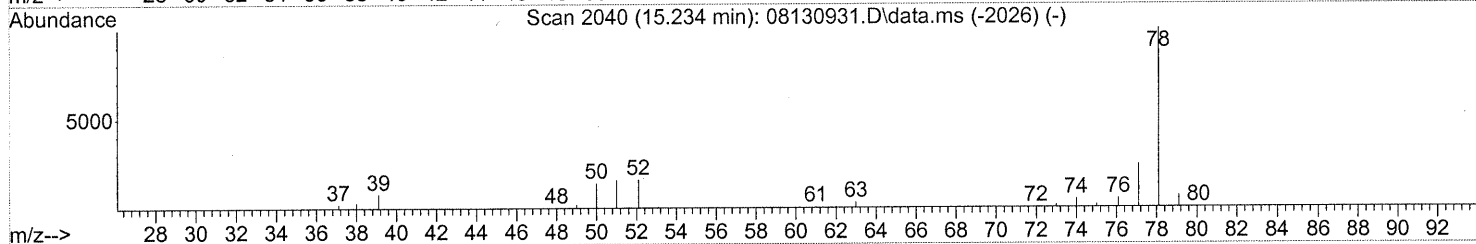
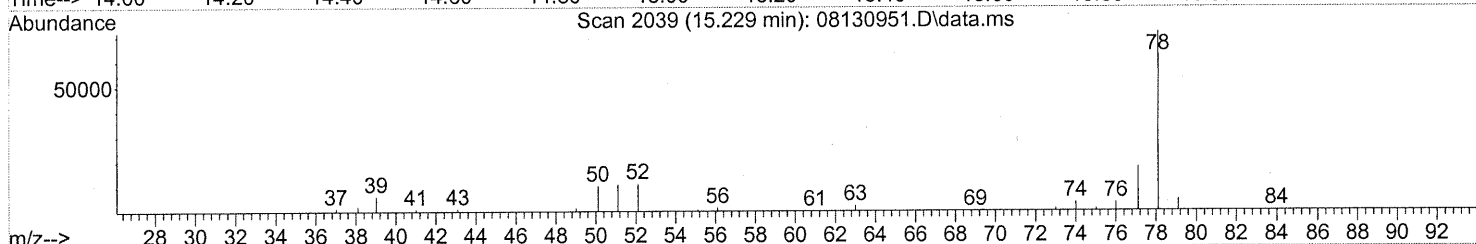
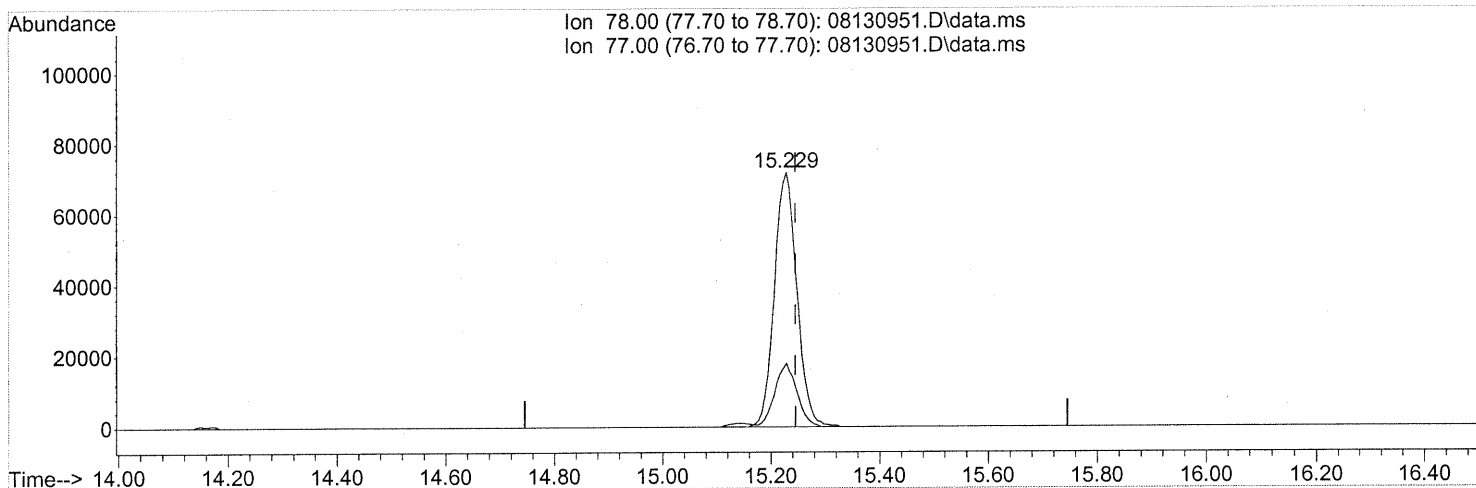
response 116832

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	31.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130951.D
Acq On : 14 Aug 2009 20:30
Operator : EM
Sample : P0902720-005 (1000ml)
Misc : Environmental H & E 100676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130951.D\data.ms

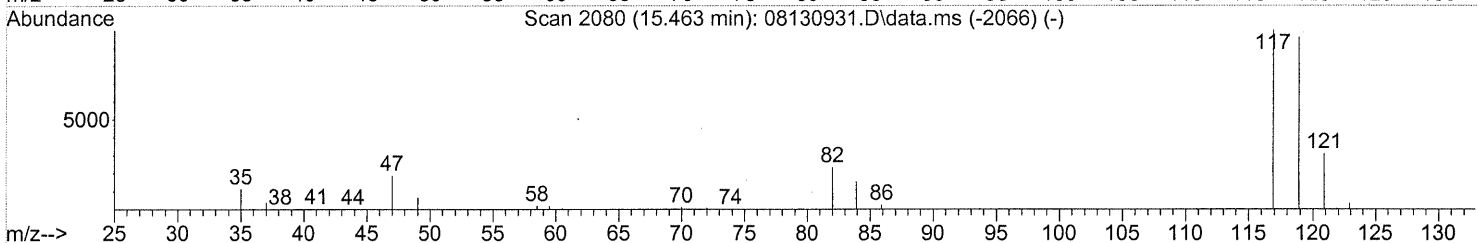
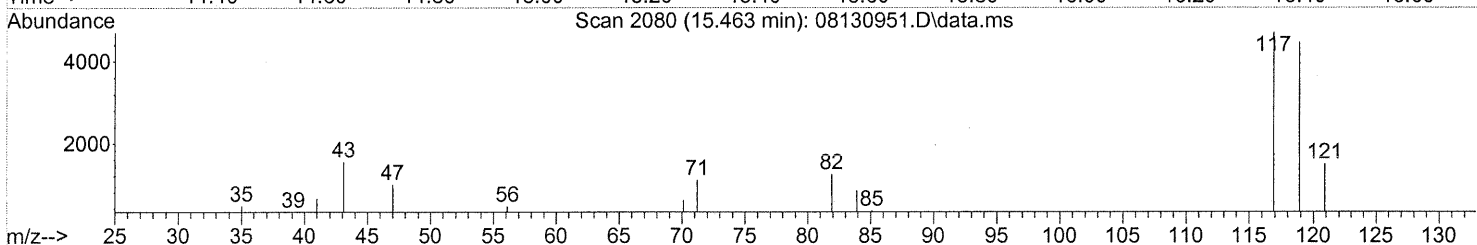
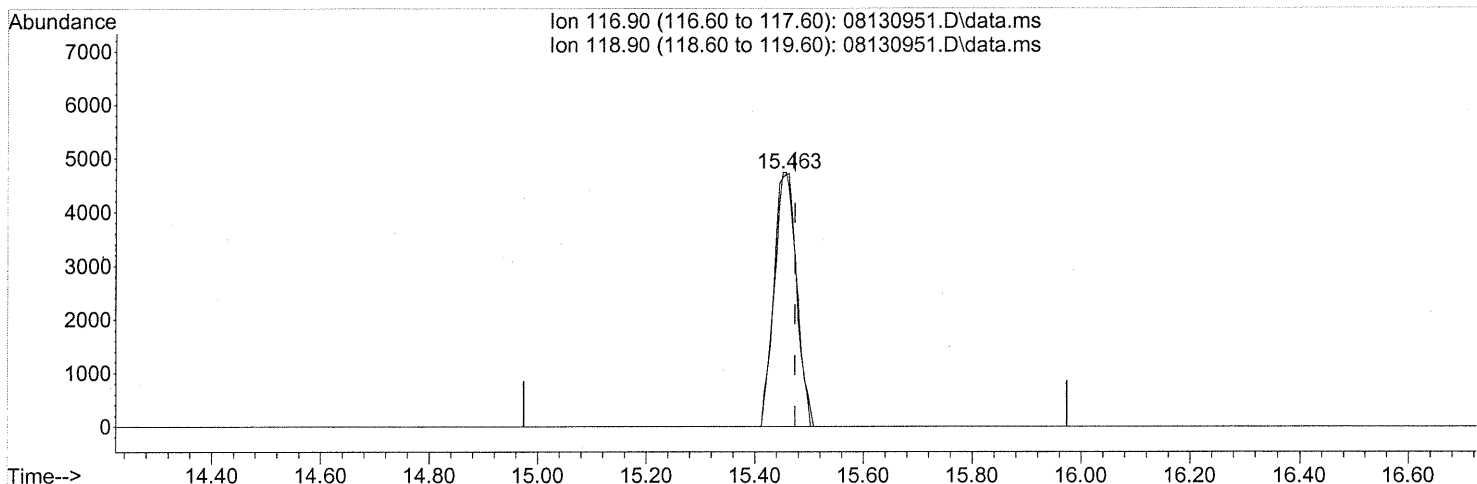
(41) Benzene (T)
15.229min (-0.017) 2.13ng
response 205330

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	24.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130951.D
Acq On : 14 Aug 2009 20:30
Operator : EM
Sample : P0902720-005 (1000ml)
Misc : Environmental H & E 100676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130951.D\data.ms

(42) Carbon Tetrachloride (T)

15.463min (-0.011) 0.51ng

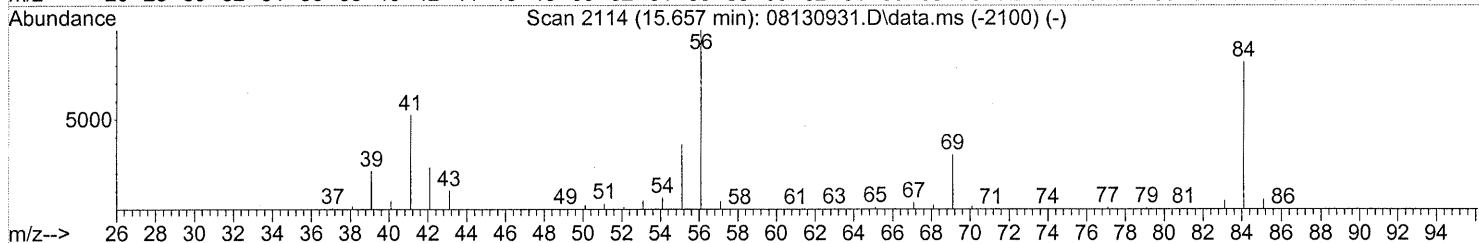
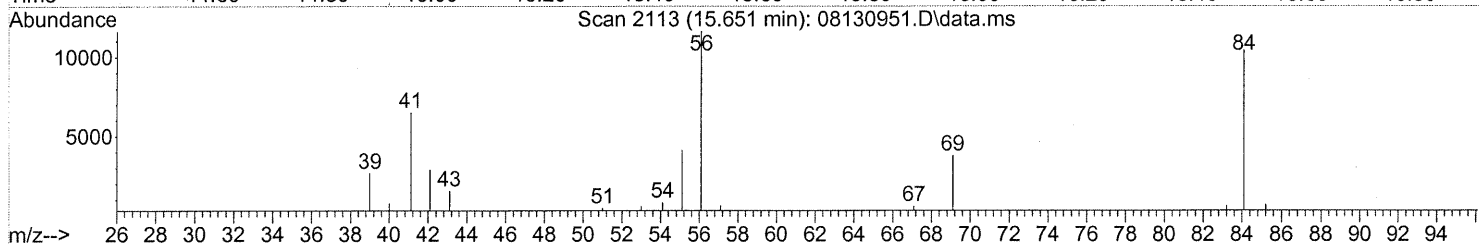
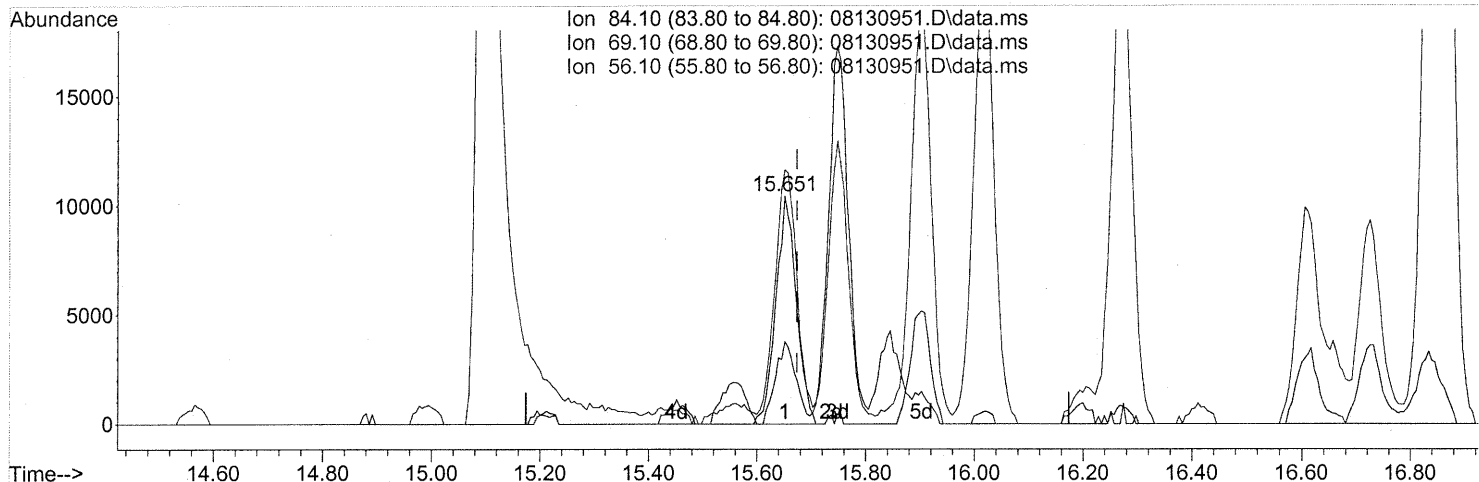
response 13889

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	94.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

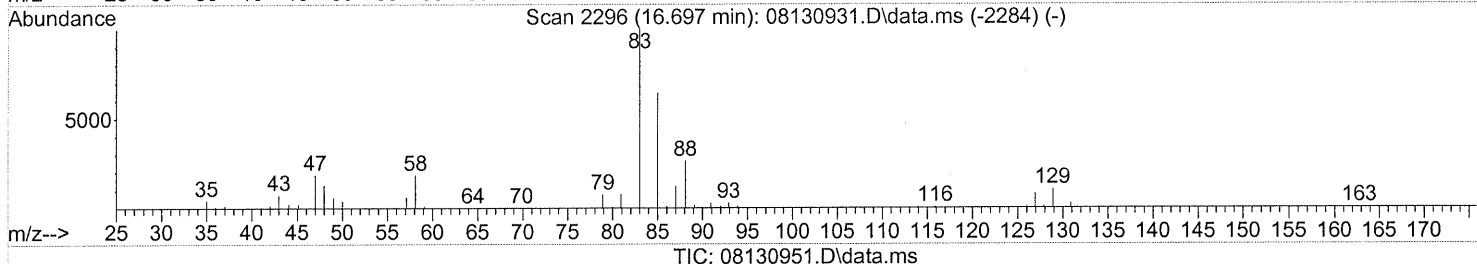
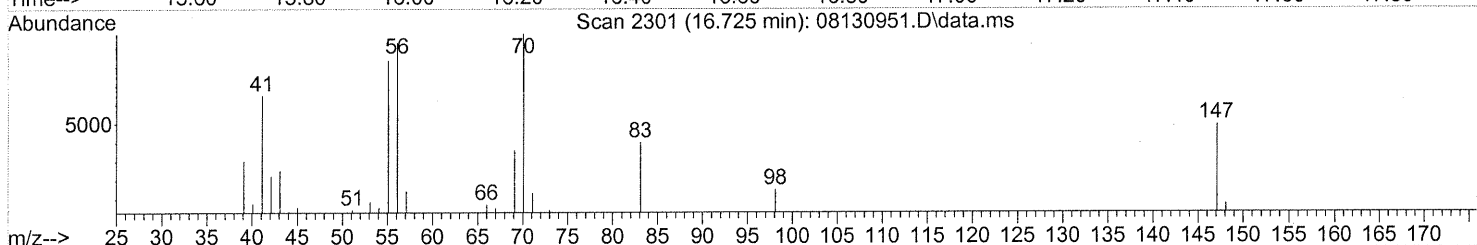
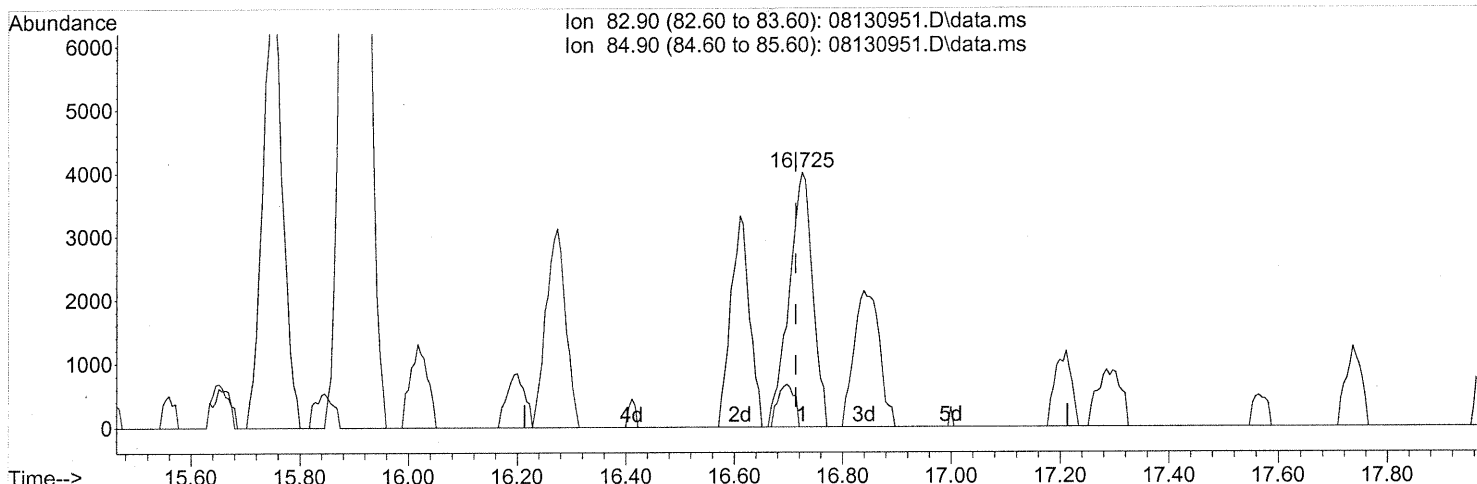
(43) Cyclohexane (T)
 15.651min (-0.023) 0.73ng
 response 27259

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	36.63
56.10	107.30	116.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.725min (+0.012) 0.43ng

response 12125

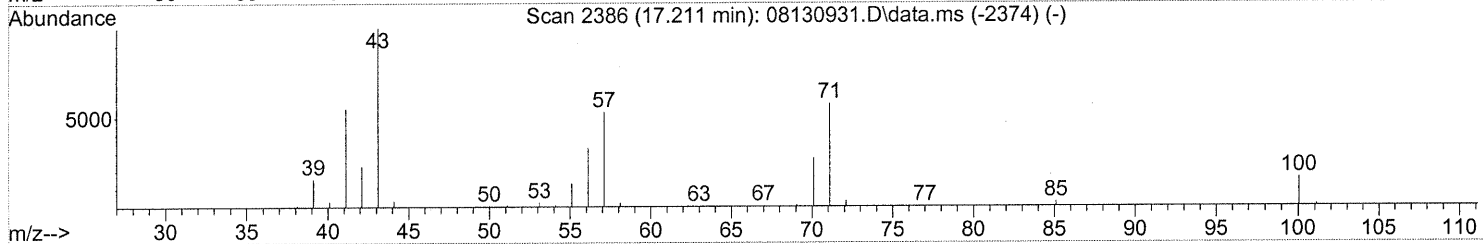
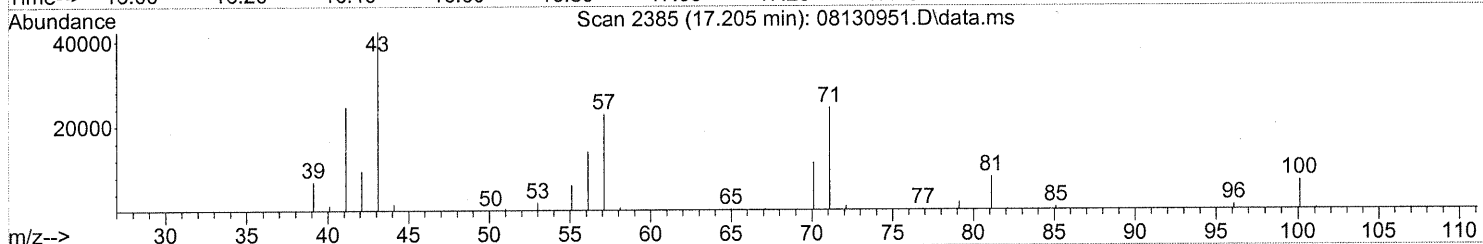
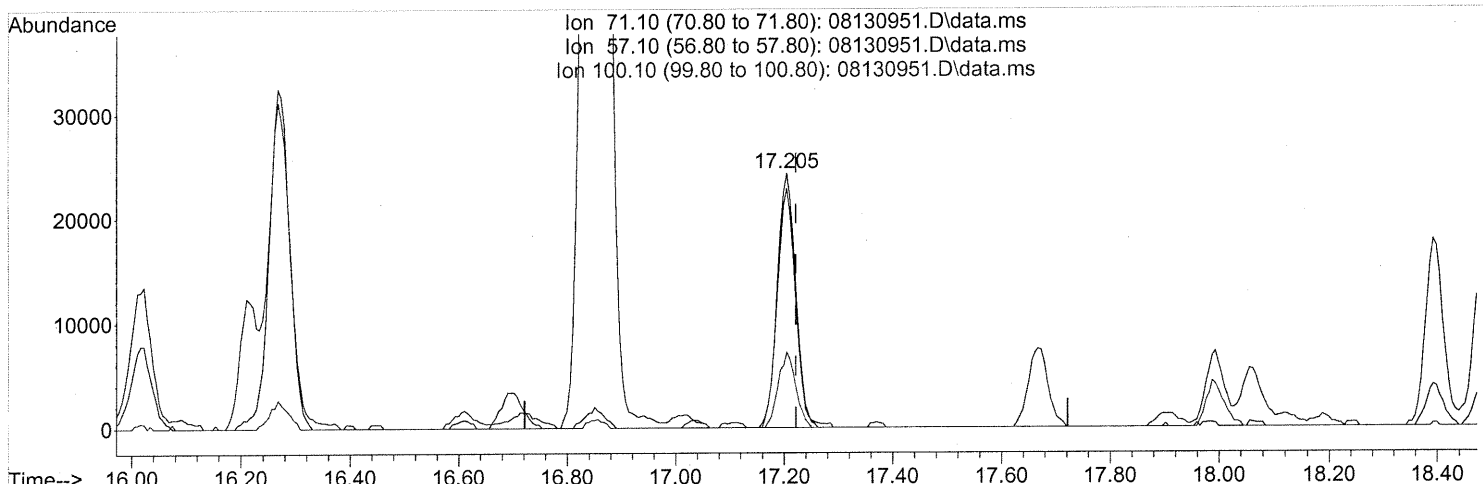
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/17/09
m 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



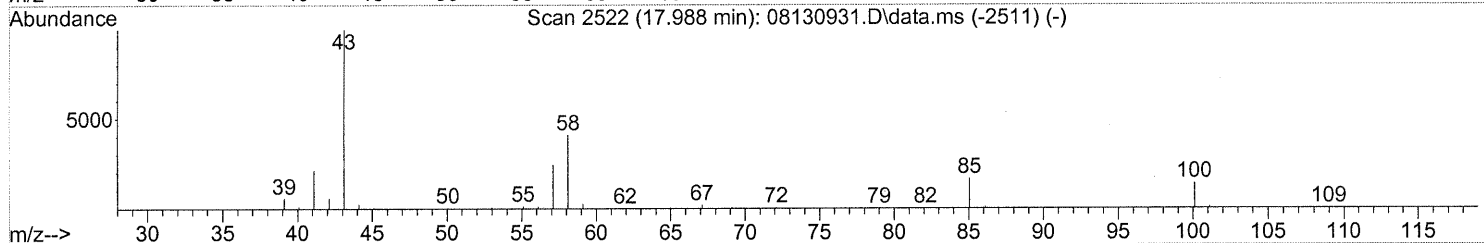
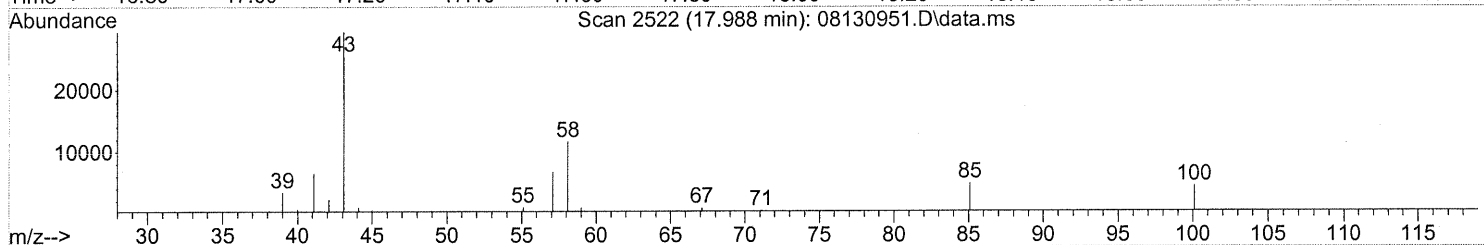
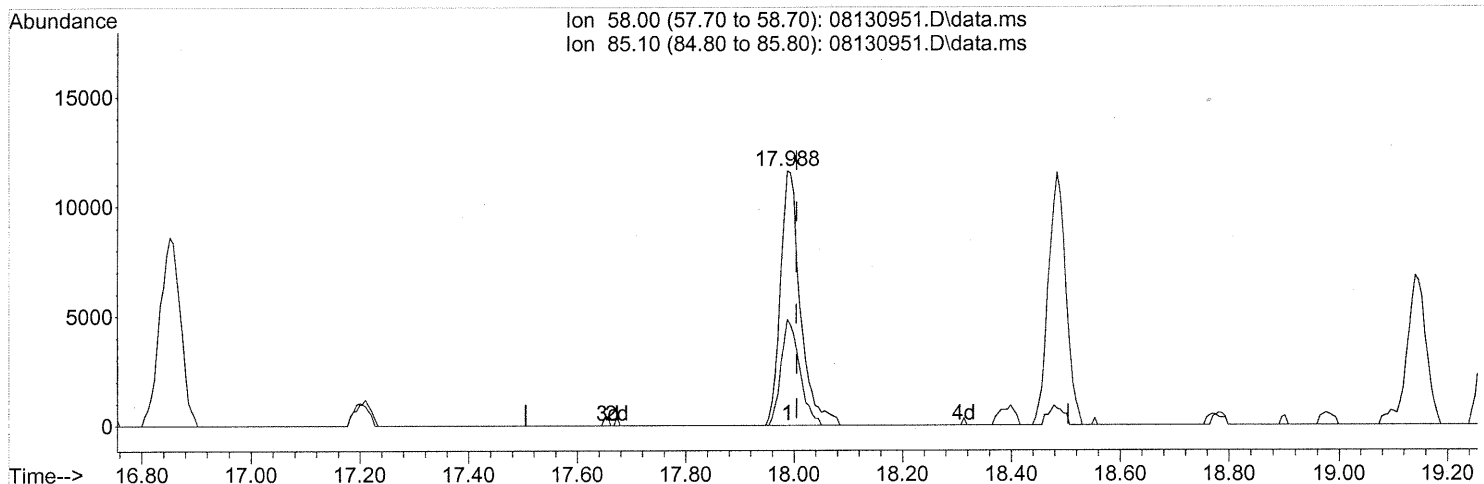
(51) n-Heptane (T)
 17.205min (-0.017) 2.19ng
 response 56456

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.28
100.10	30.70	28.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

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

17.988min (-0.017) 1.41ng

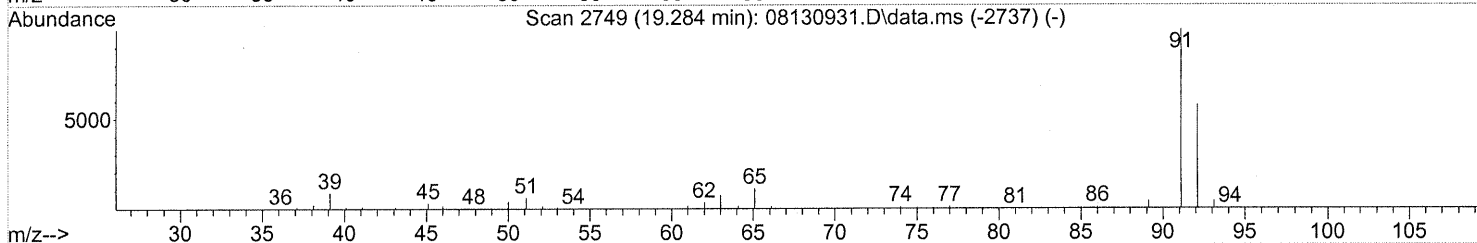
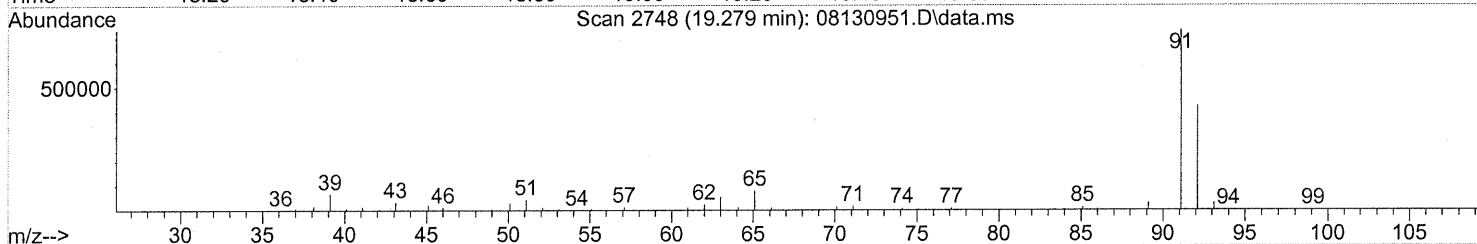
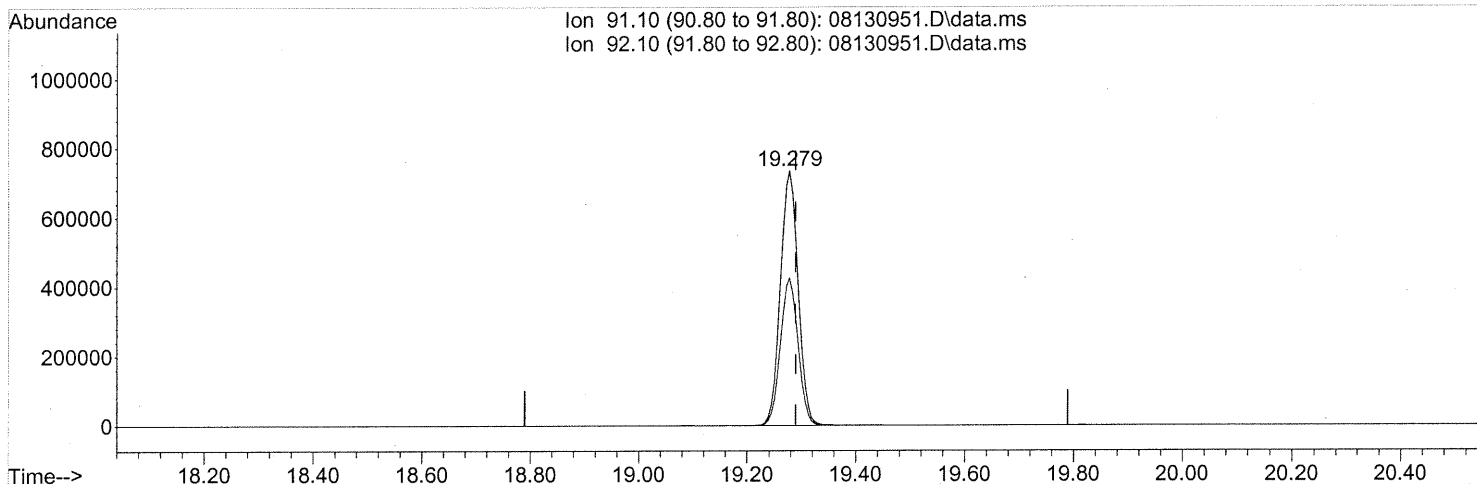
response 29519

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	39.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

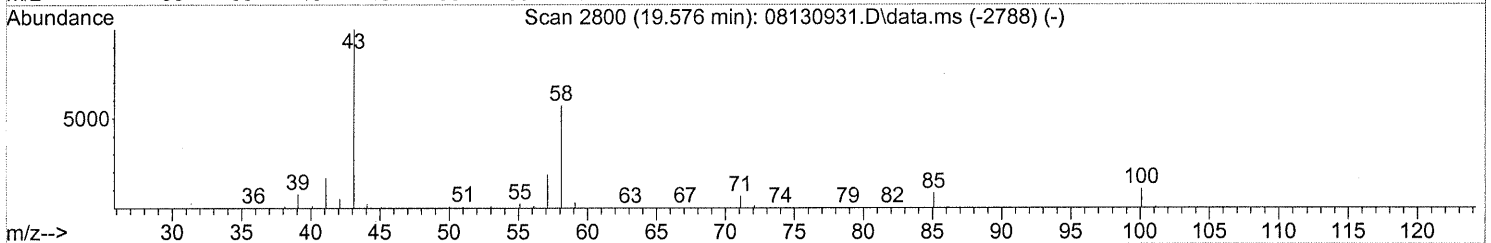
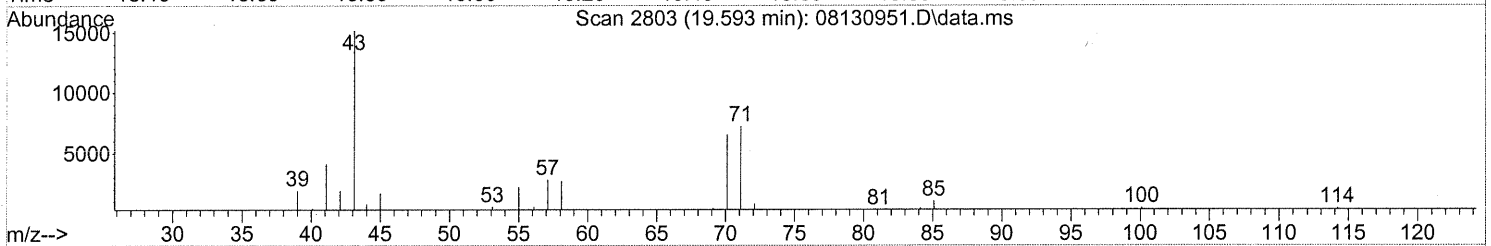
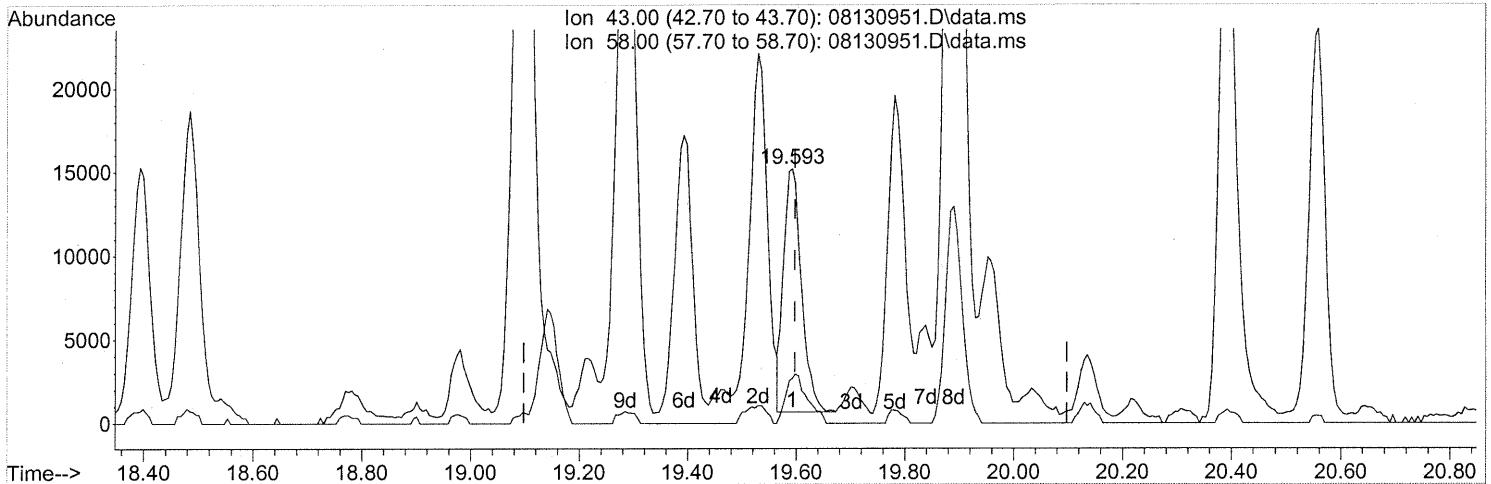
(58) Toluene (T)
 19.279min (-0.011) 17.04ng
 response 1659741

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.593min (-0.005) 0.66ng
 response 33390

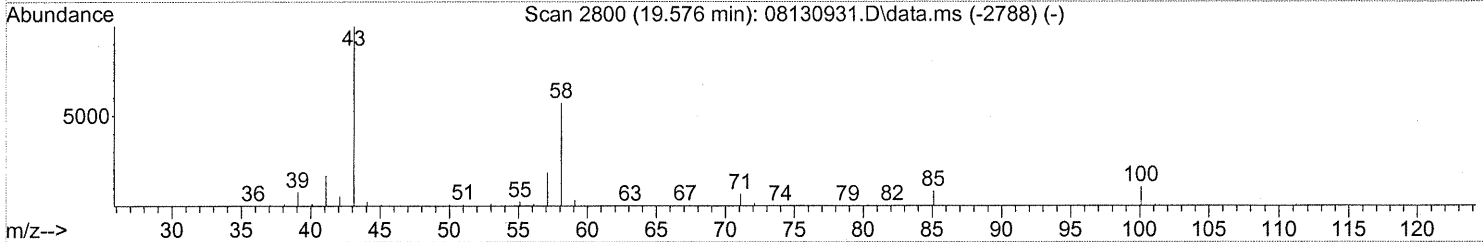
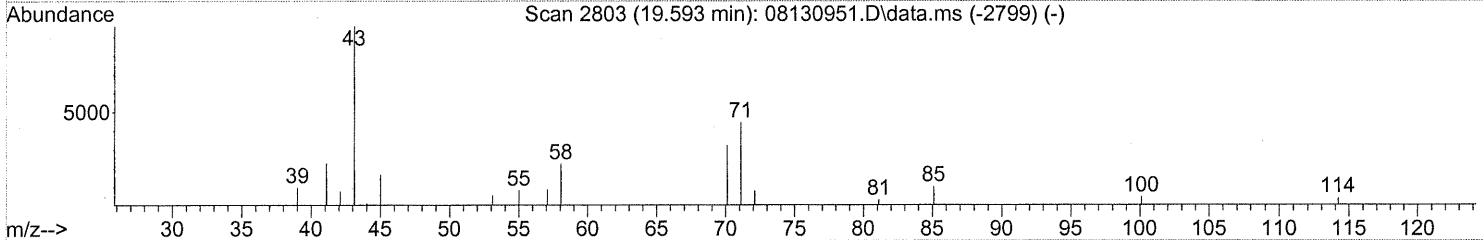
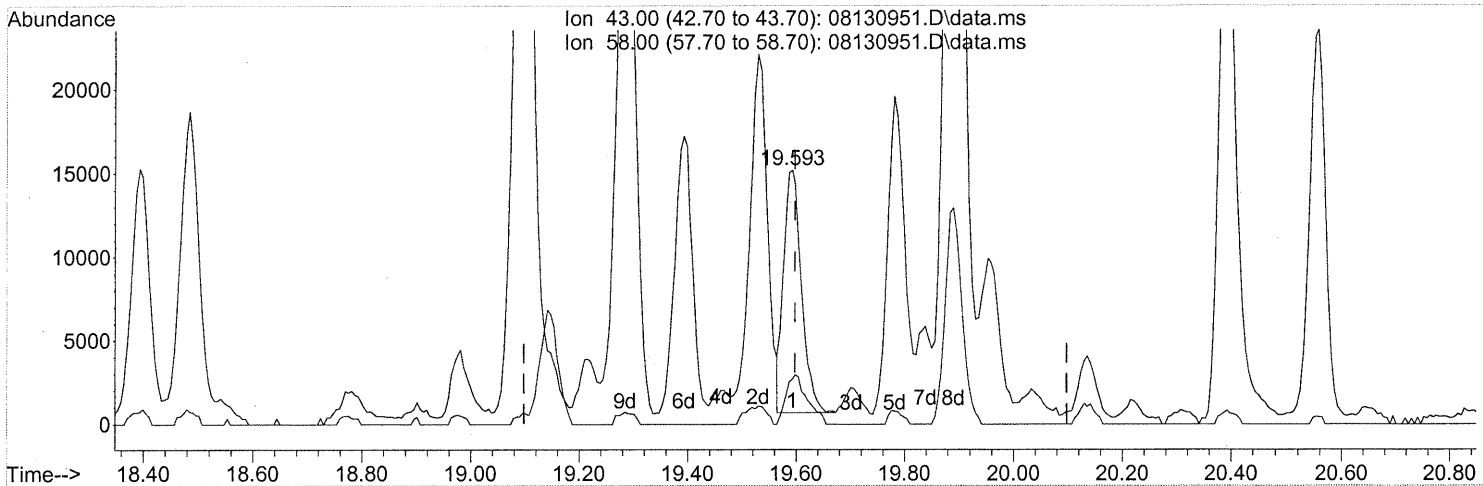
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	23.77#
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(59) 2-Hexanone (T)
 19.593min (-0.005) 0.66ng
 response 33390

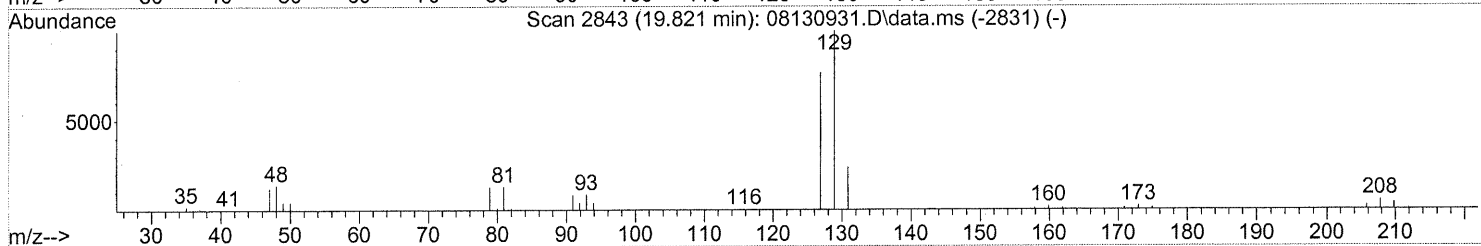
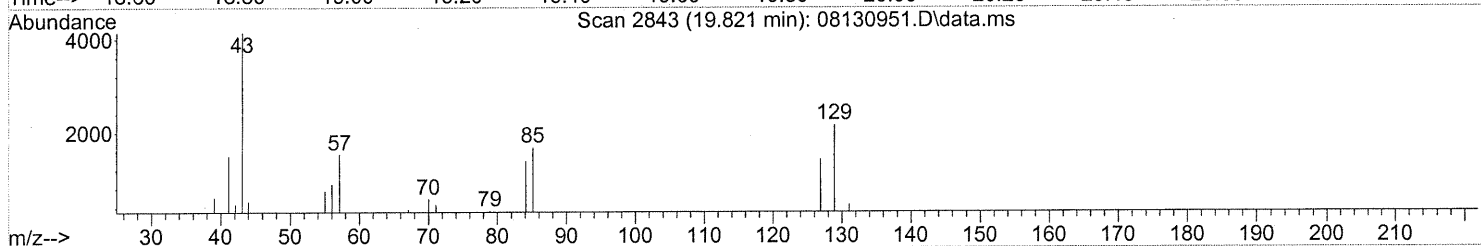
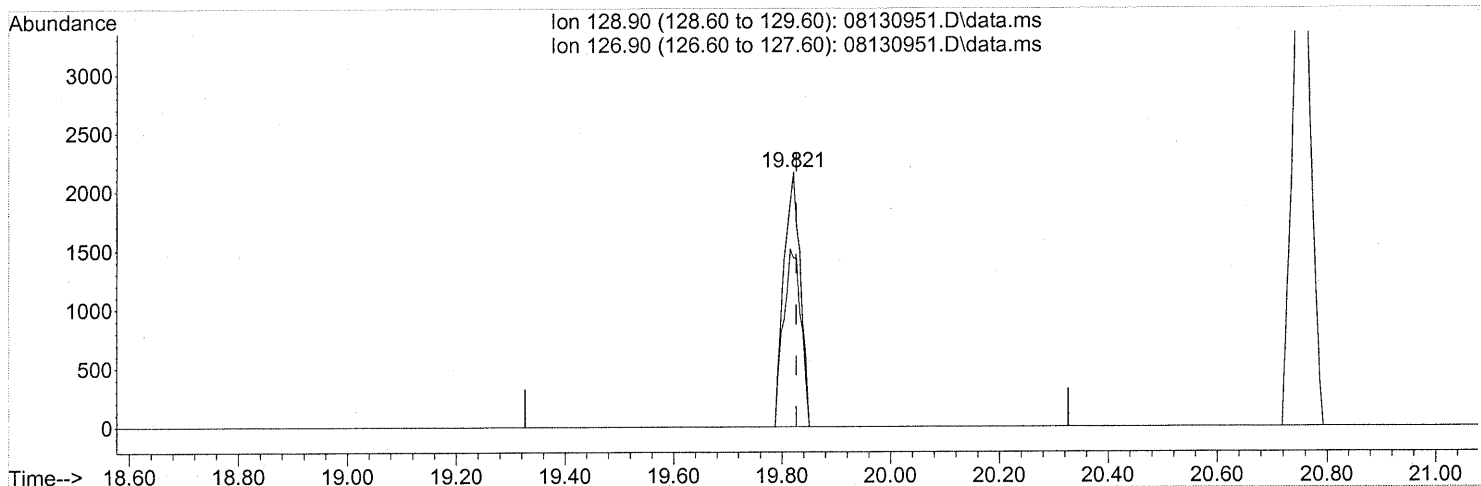
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	23.77#
0.00	0.00	0.00
0.00	0.00	0.00

*After subtraction
 em 8/17/09
 em 8/18/09*

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.821min (-0.006) 0.22ng

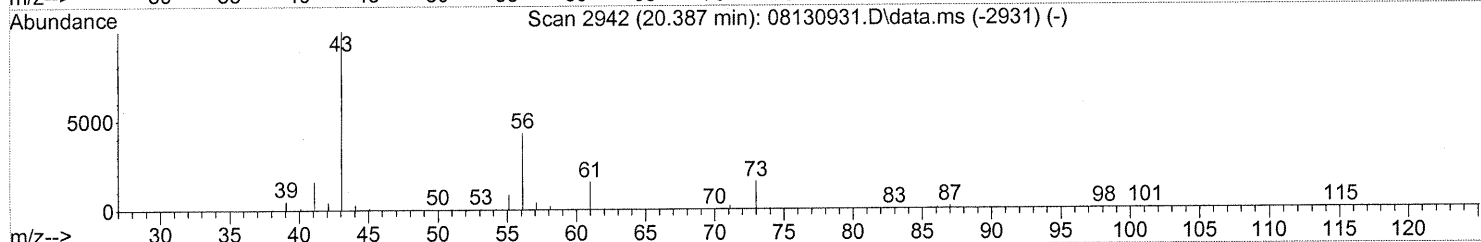
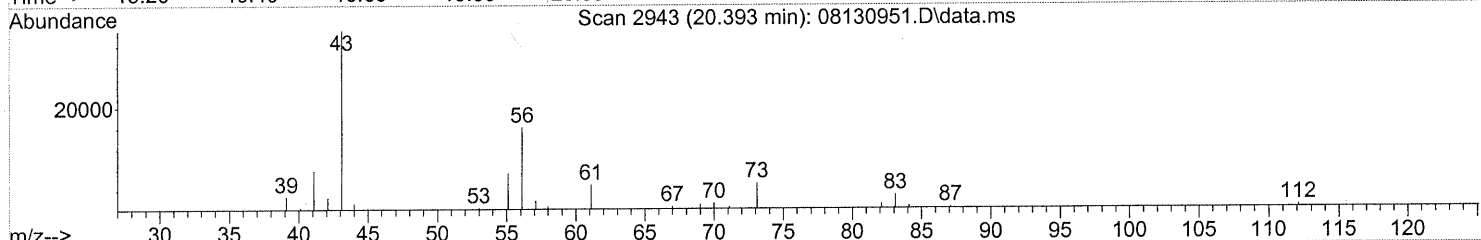
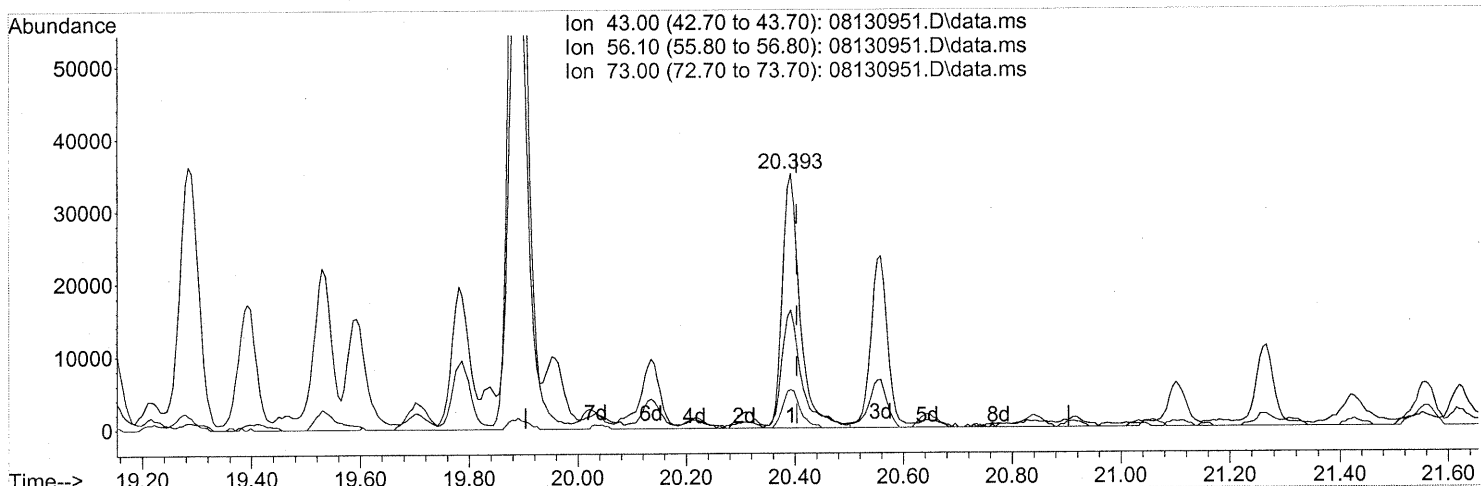
response 4537

Ion	Exp%	Act%
128.90	100	100
126.90	77.60	73.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



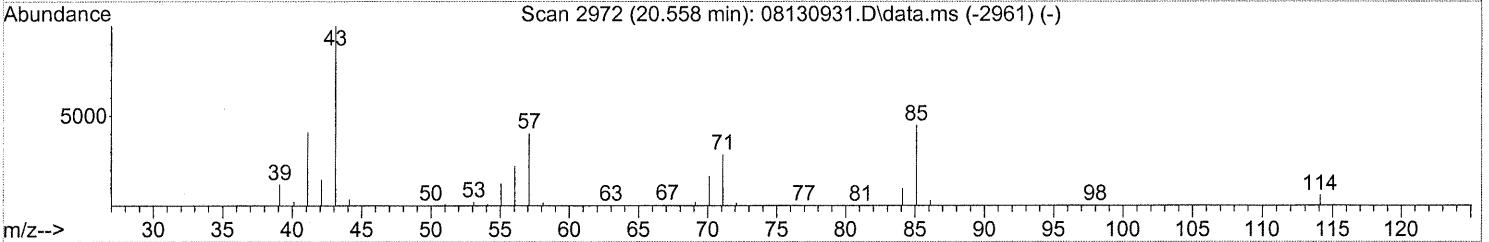
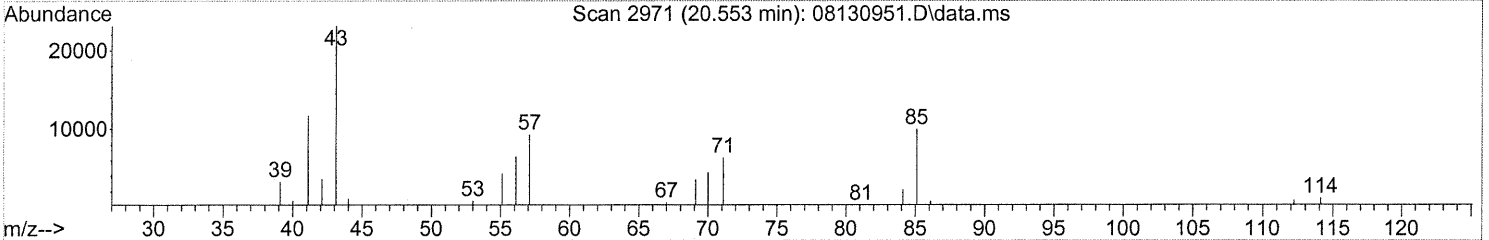
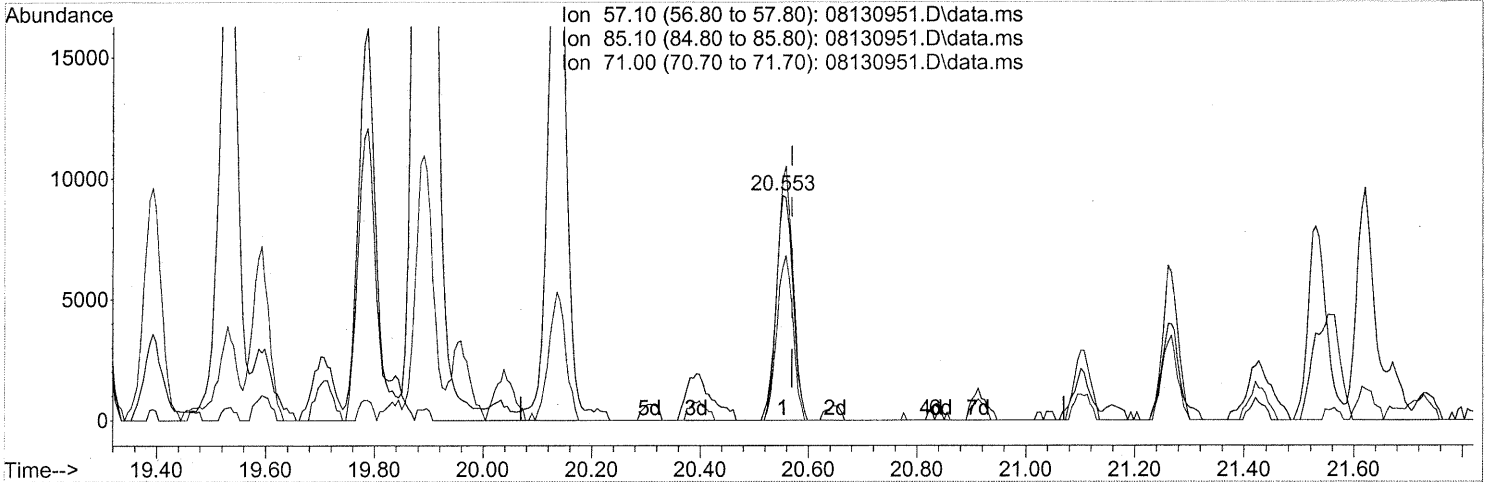
(62) n-Butyl Acetate (T)
 20.393min (-0.011) 1.43ng
 response 78938

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	49.36
73.00	16.90	14.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

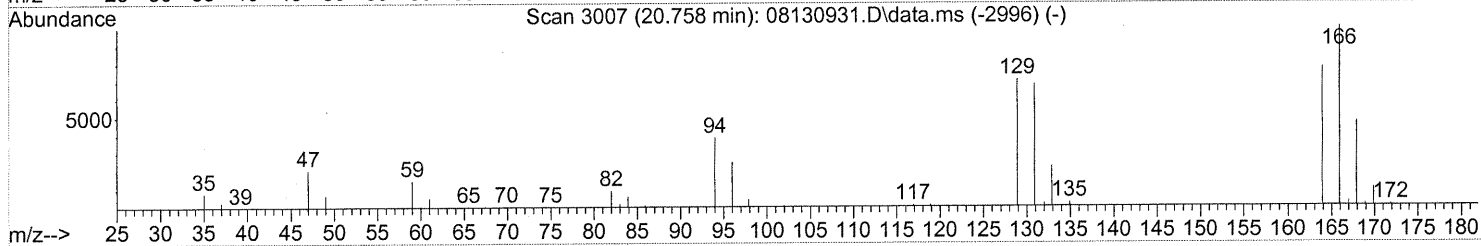
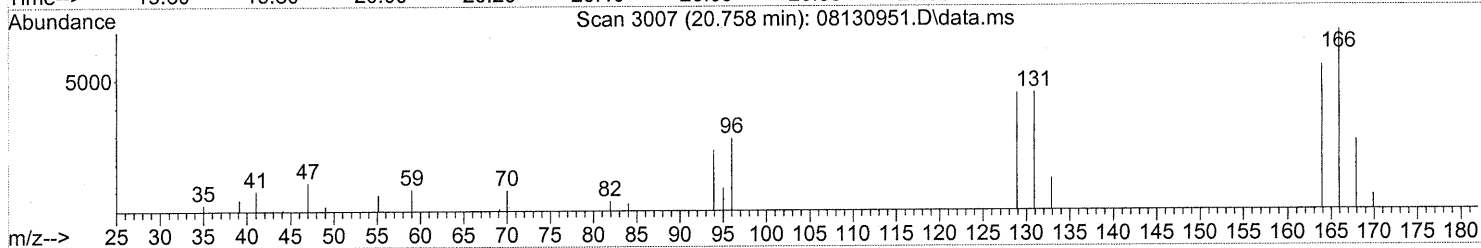
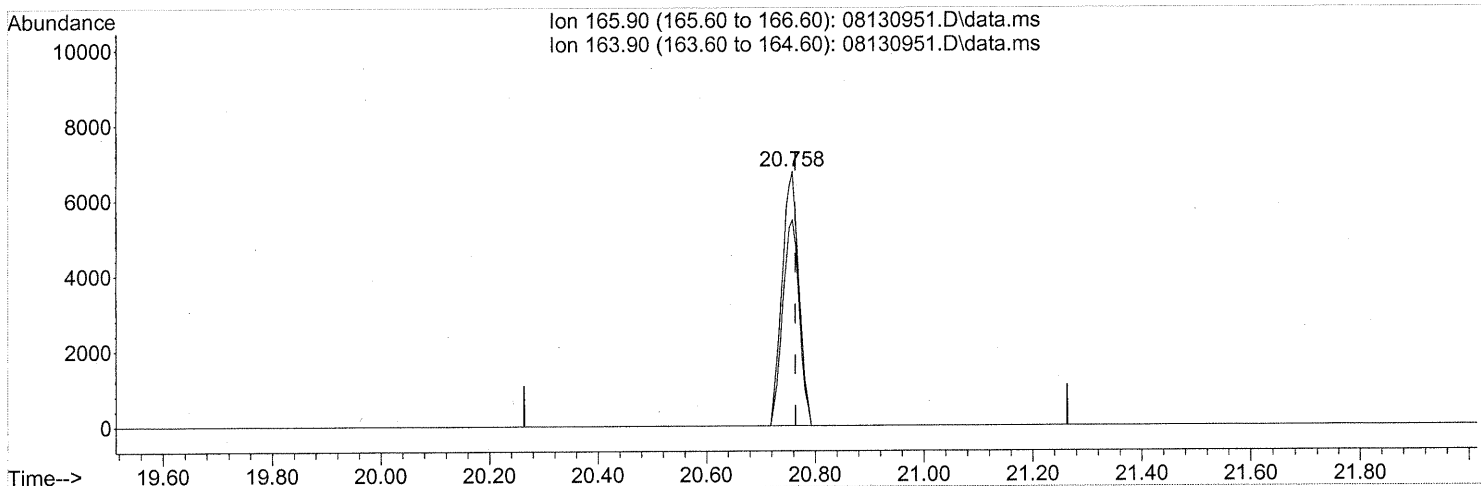
(63) n-Octane (T)
 20.553min (-0.017) 0.92ng
 response 19997

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	105.02
71.00	75.10	68.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

(64) Tetrachloroethene (T)

20.758min (-0.006) 0.60ng

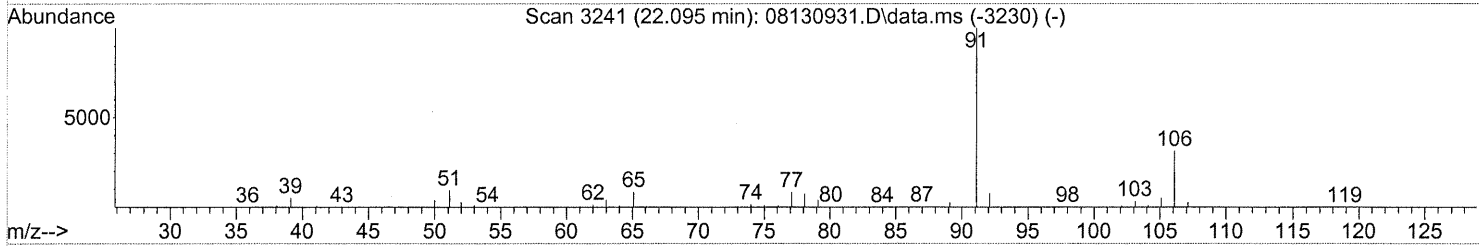
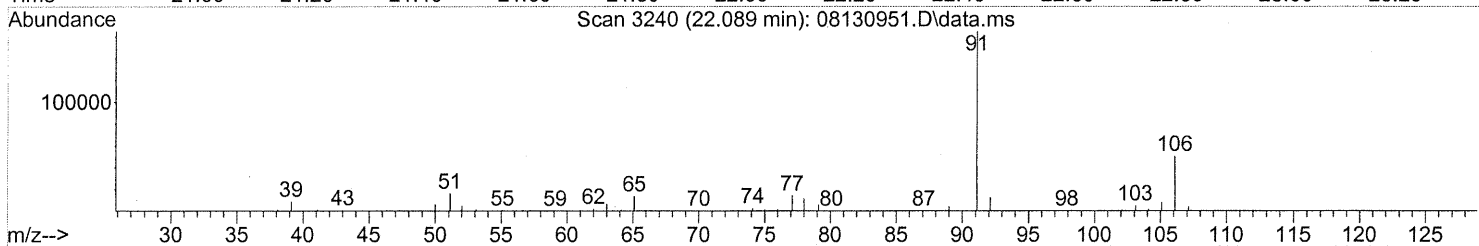
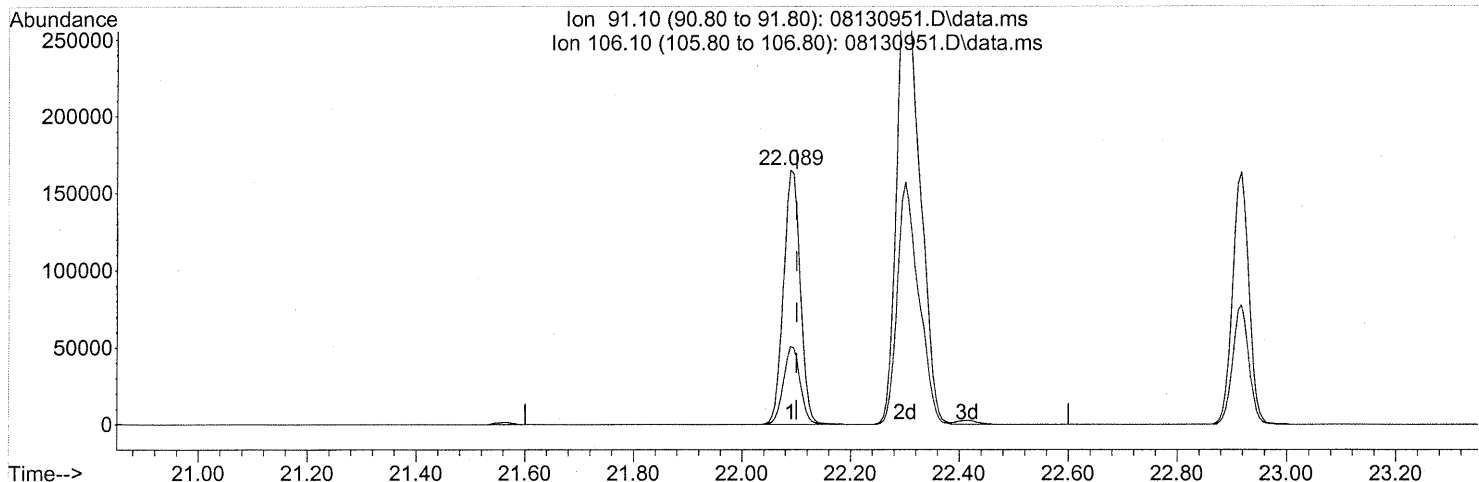
response 14439

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	79.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

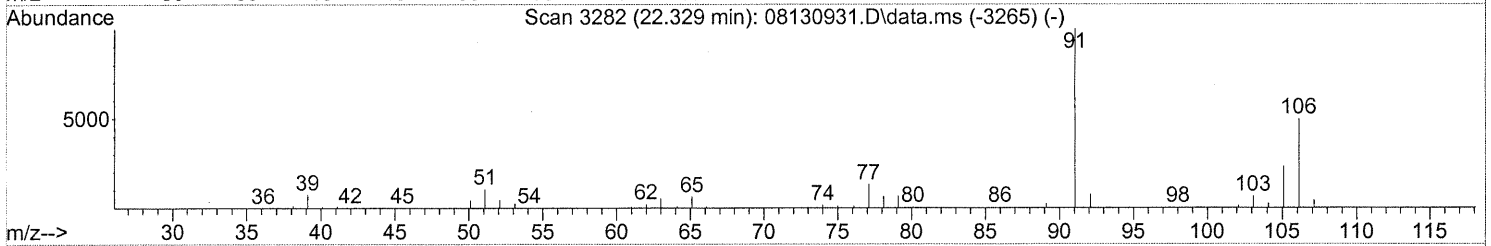
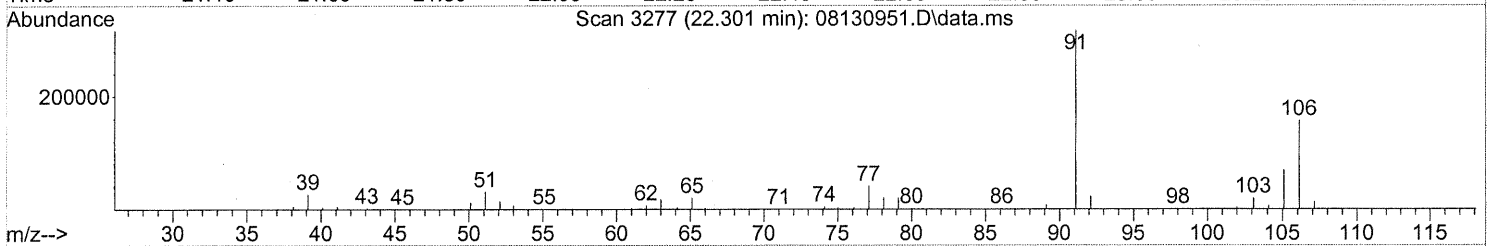
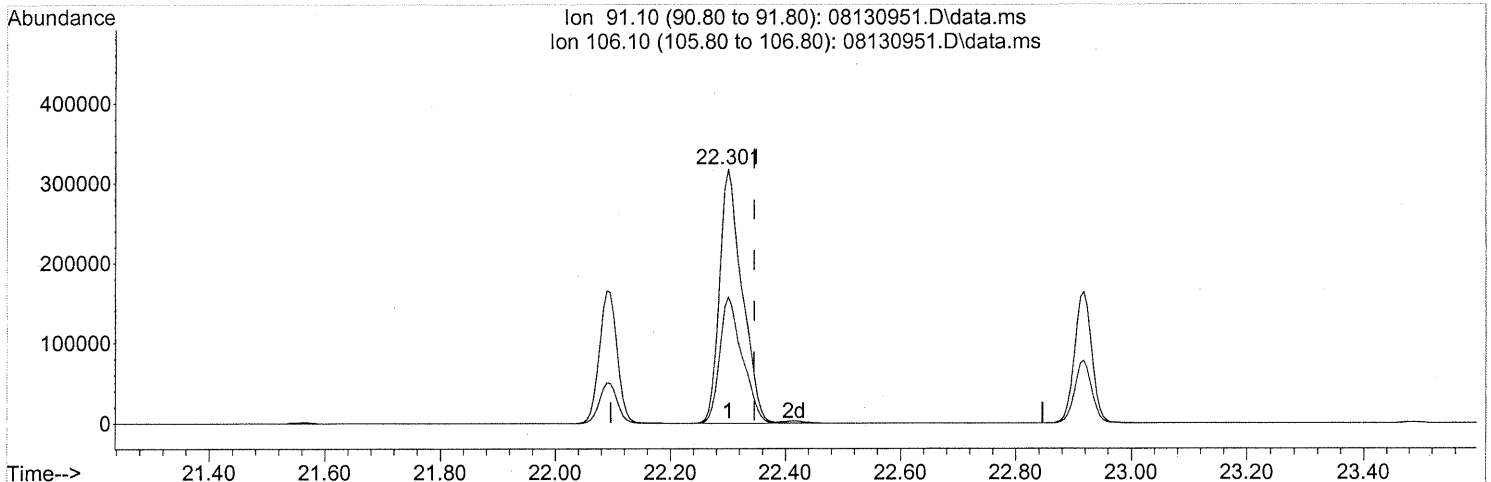
(66) Ethylbenzene (T)
 22.089min (-0.011) 3.34ng
 response 350911

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

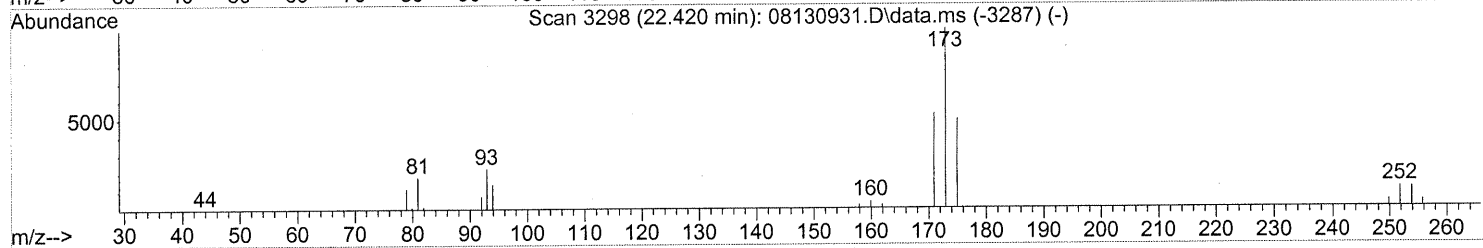
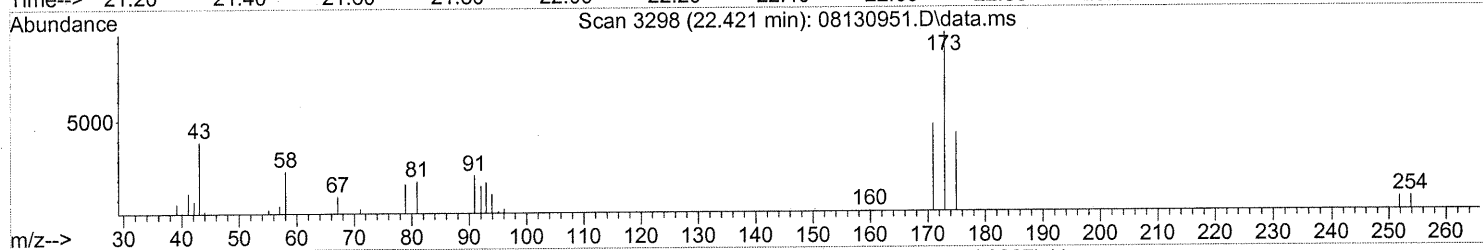
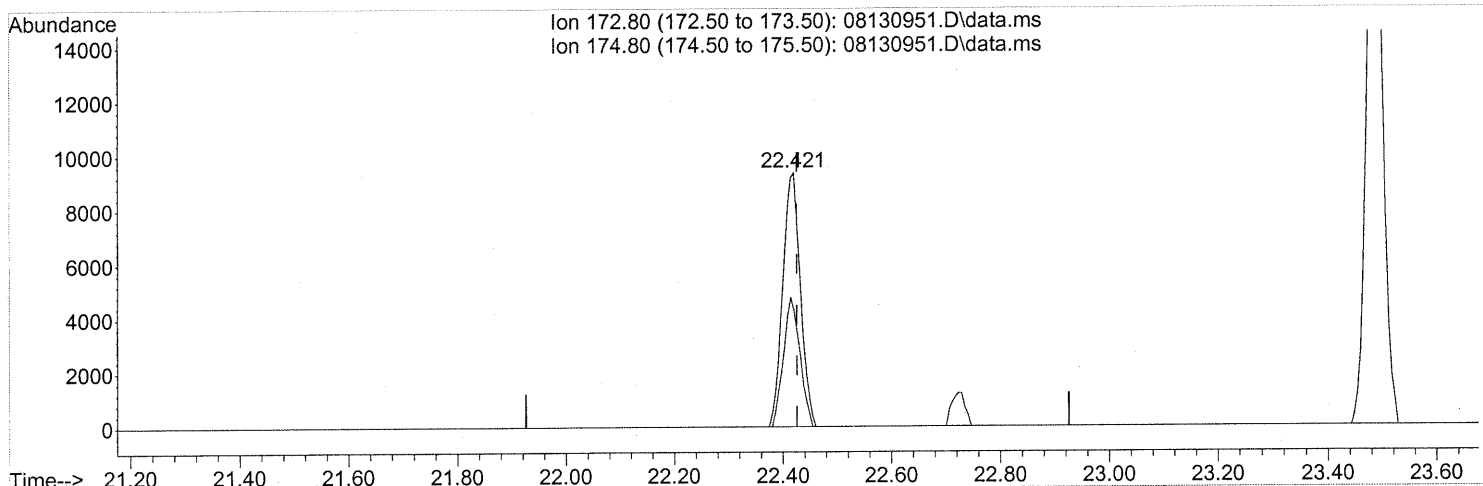
(67) m- & p-Xylenes (T)
 22.301min (-0.046) 10.41ng
 response 868051

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130951.D
Acq On : 14 Aug 2009 20:30
Operator : EM
Sample : P0902720-005 (1000ml)
Misc : Environmental H & E 100676
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130951.D\data.ms

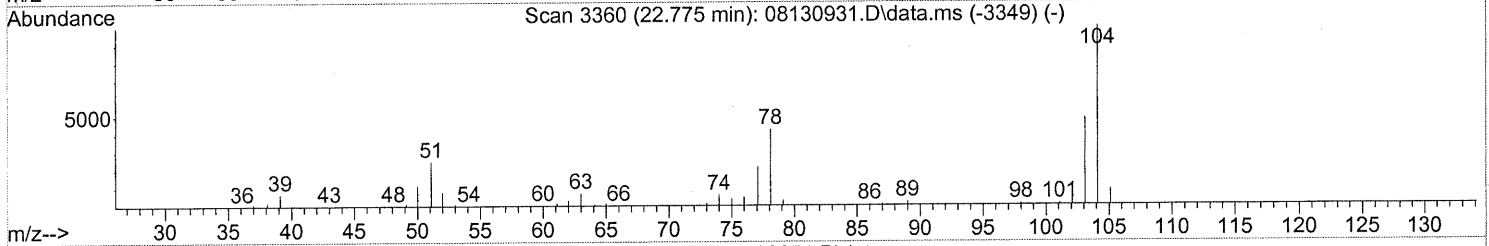
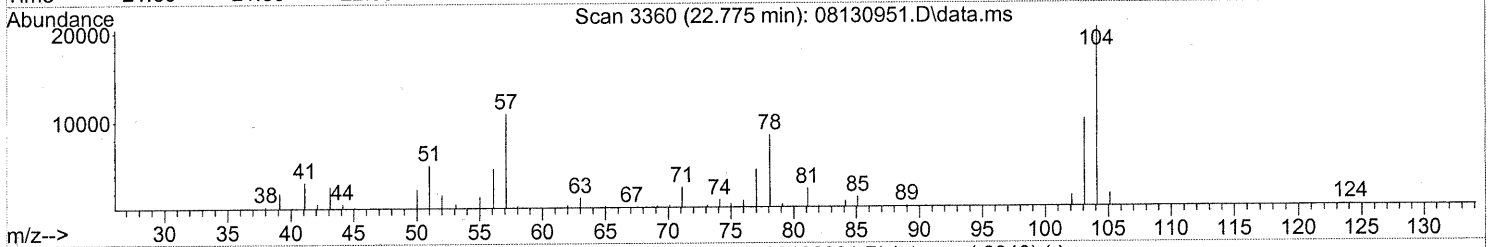
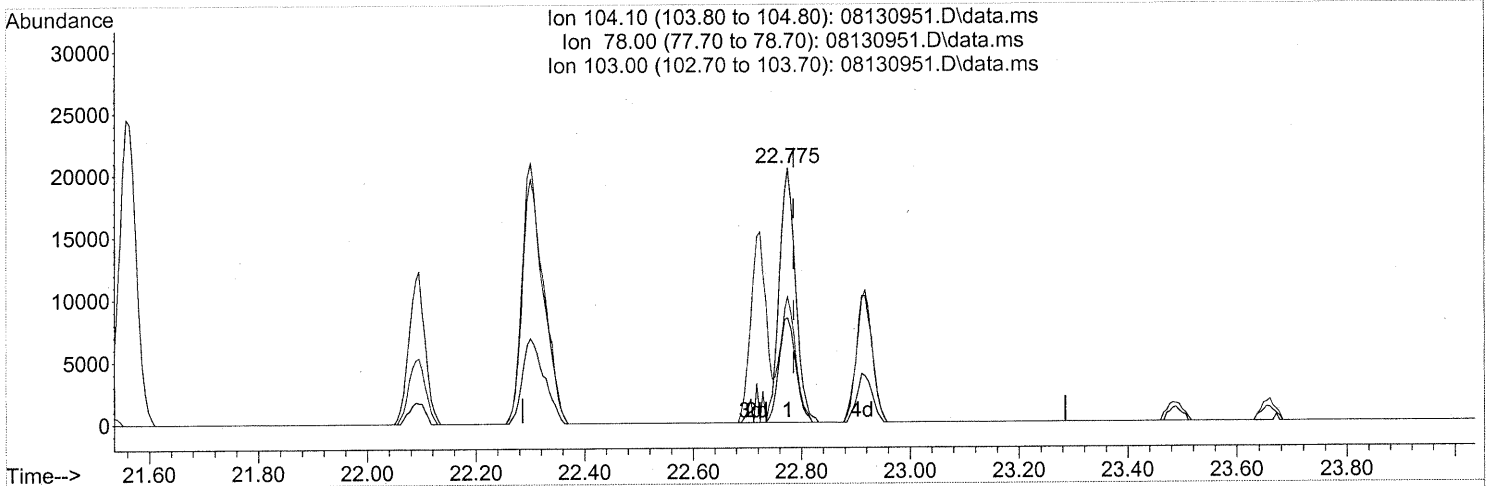
(68) Bromoform (T)
22.421min (-0.006) 1.15ng
response 20747

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	47.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

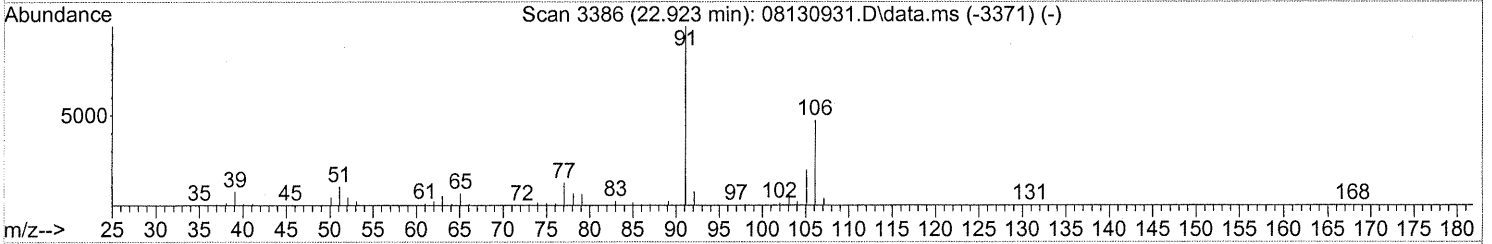
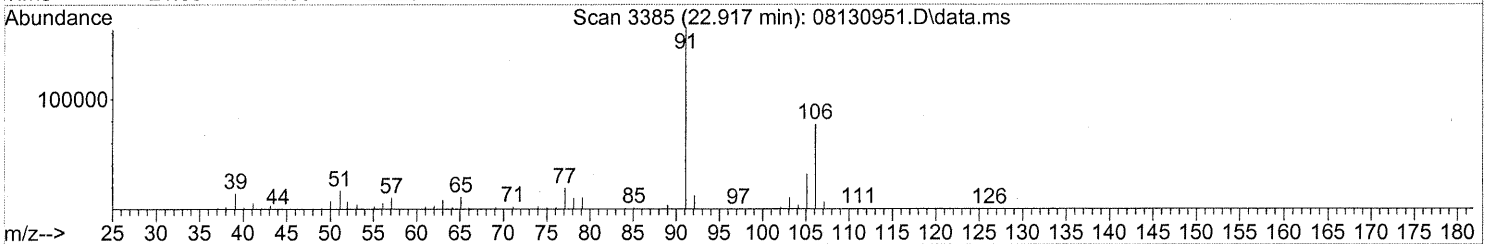
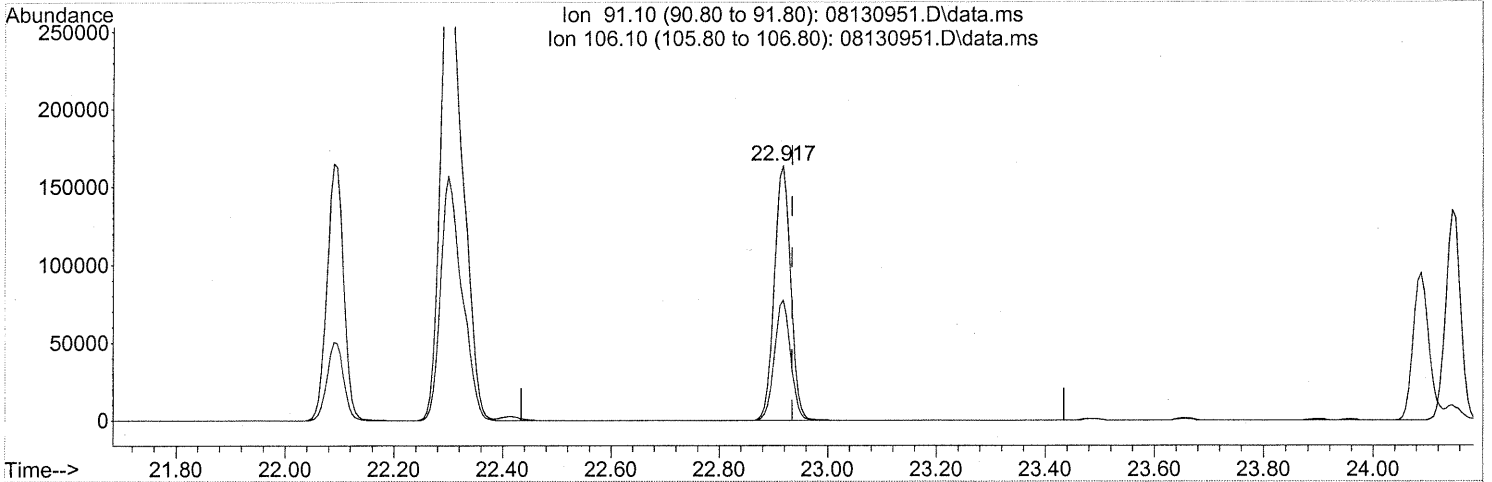
(69) Styrene (T)
 22.775min (-0.011) 0.69ng
 response 42708

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	42.20
103.00	48.70	45.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(70) o-Xylene (T)

22.917min (-0.017) 4.06ng

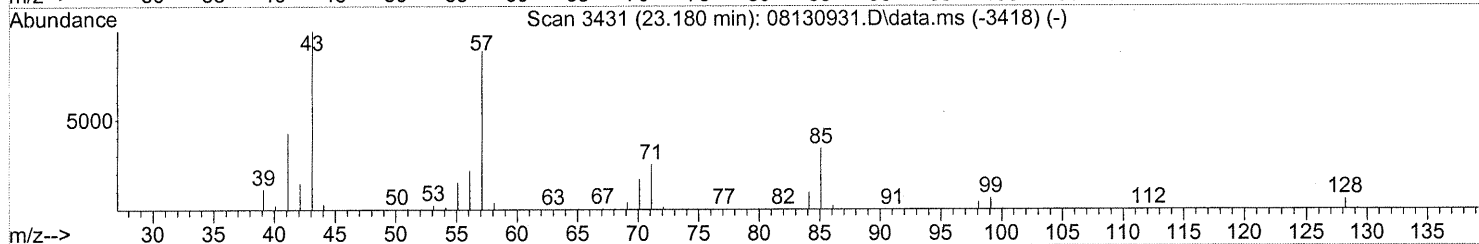
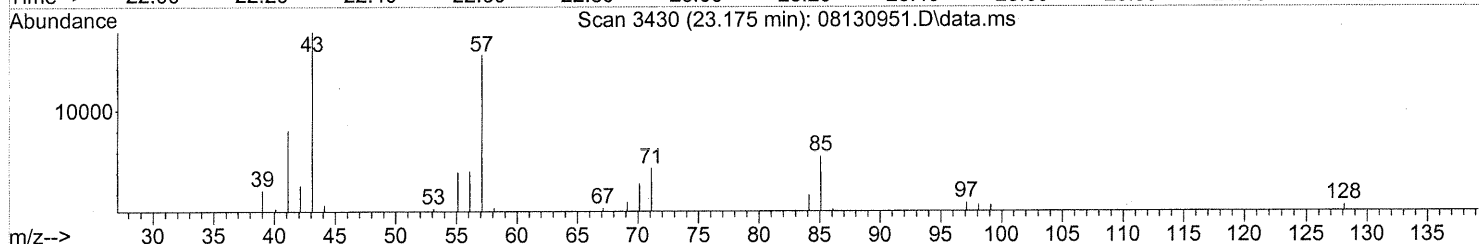
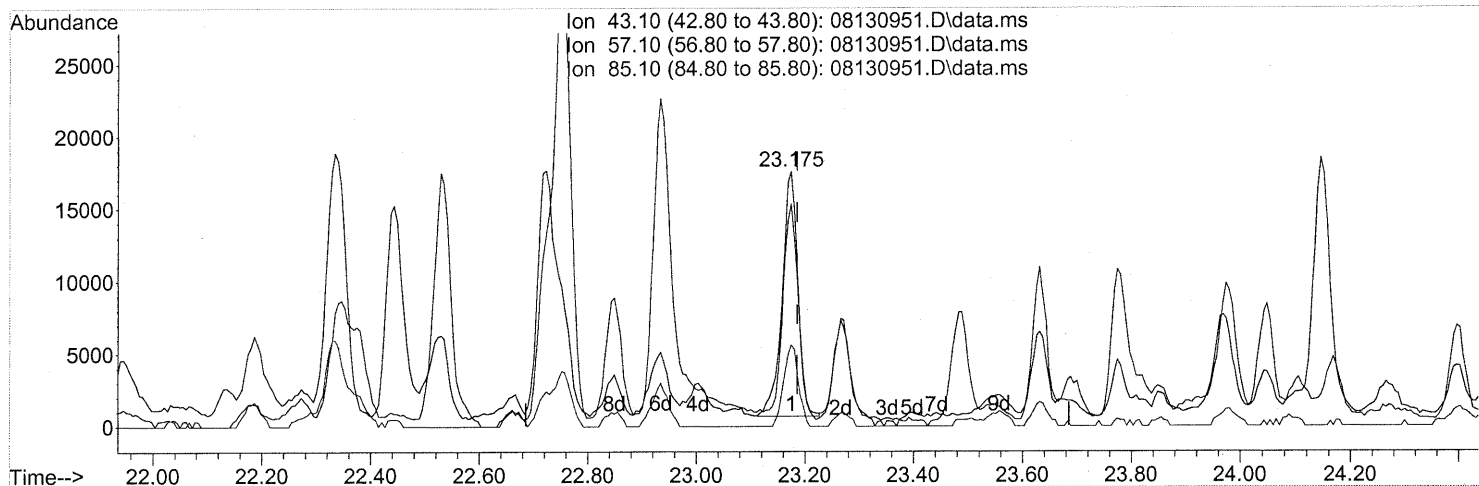
response 340932

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	46.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

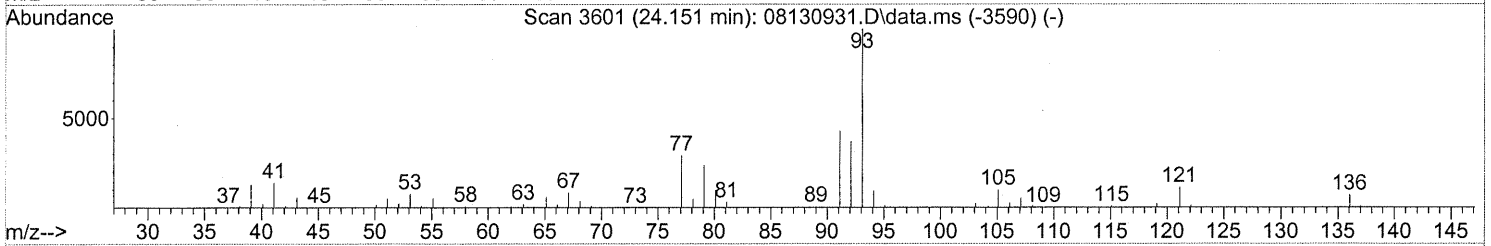
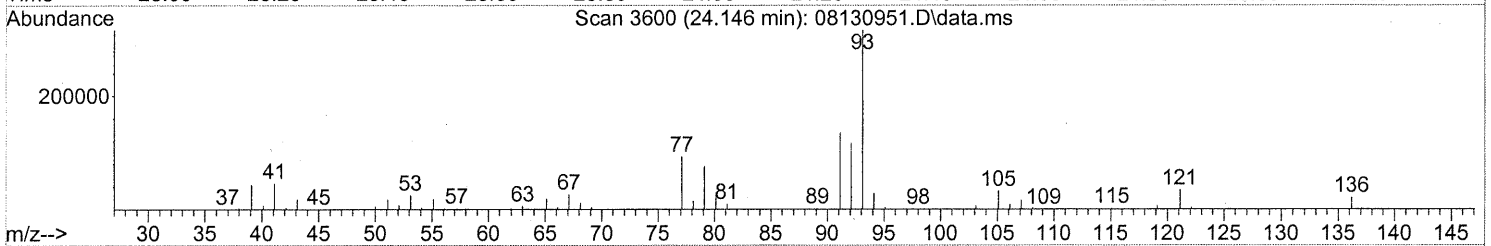
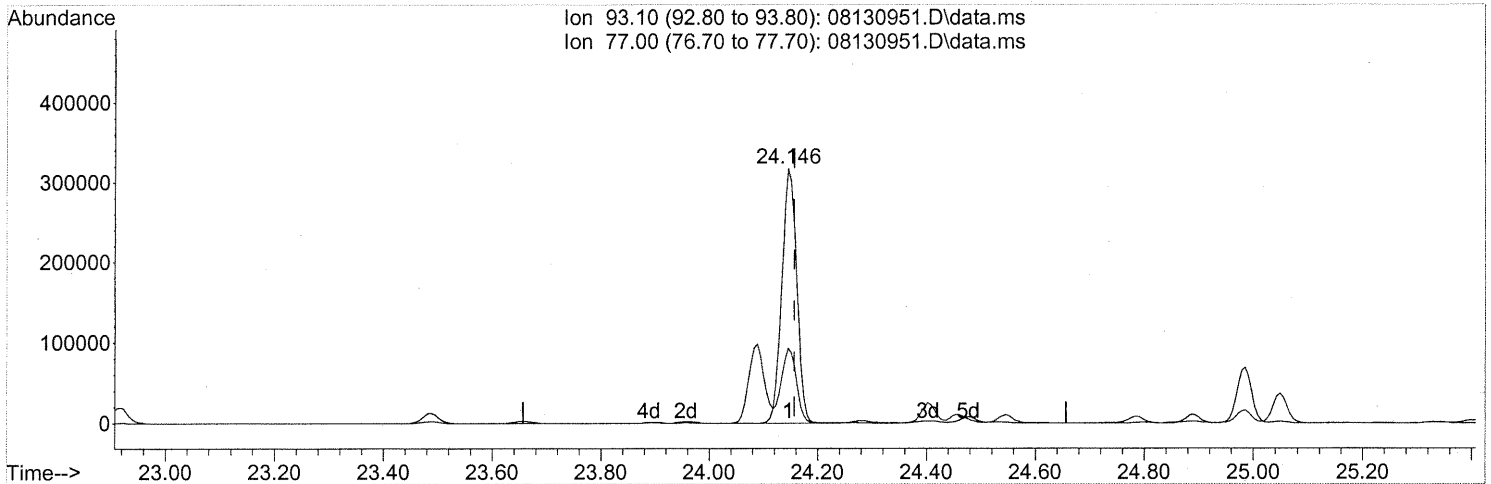
(71) n-Nonane (T)
 23.175min (-0.011) 0.67ng
 response 33920

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	85.71
85.10	38.80	30.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



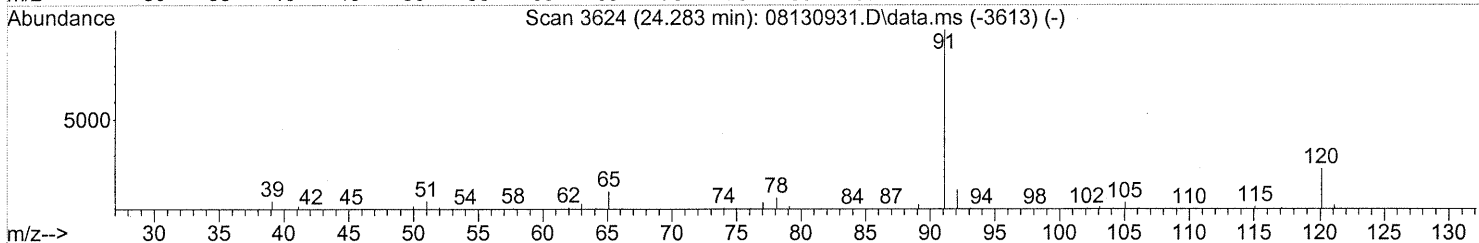
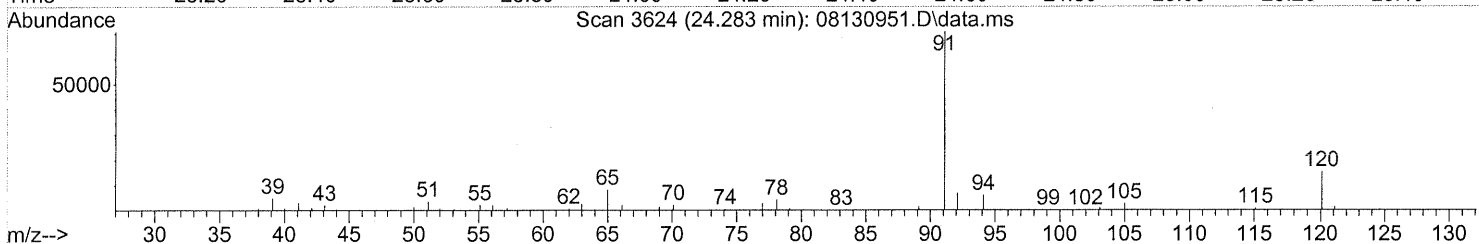
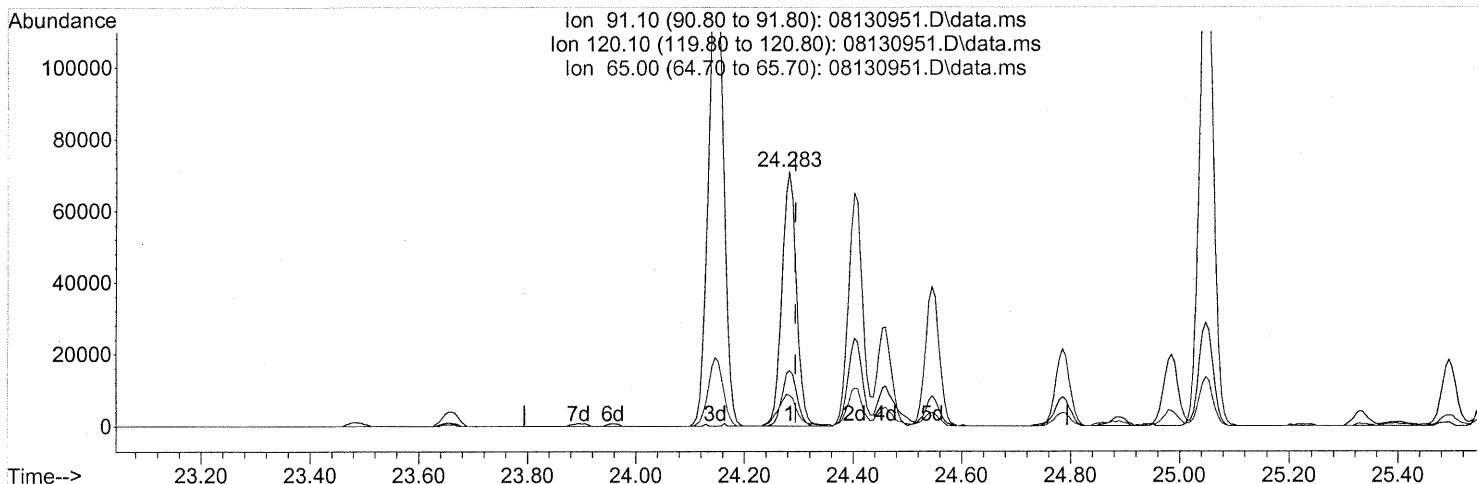
(75) alpha-Pinene (T)
 24.146min (-0.011) 11.22ng
 response 601974

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.283min (-0.011) 0.98ng

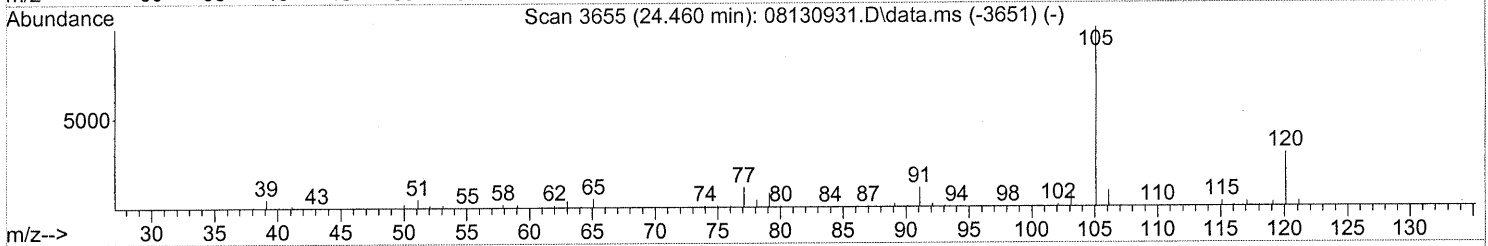
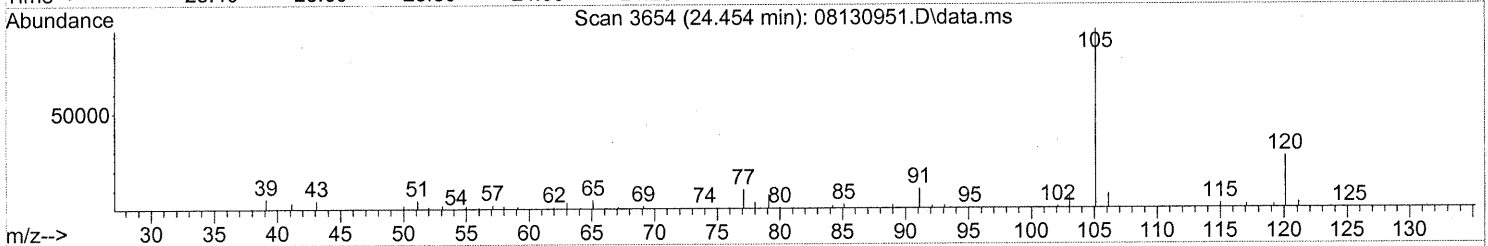
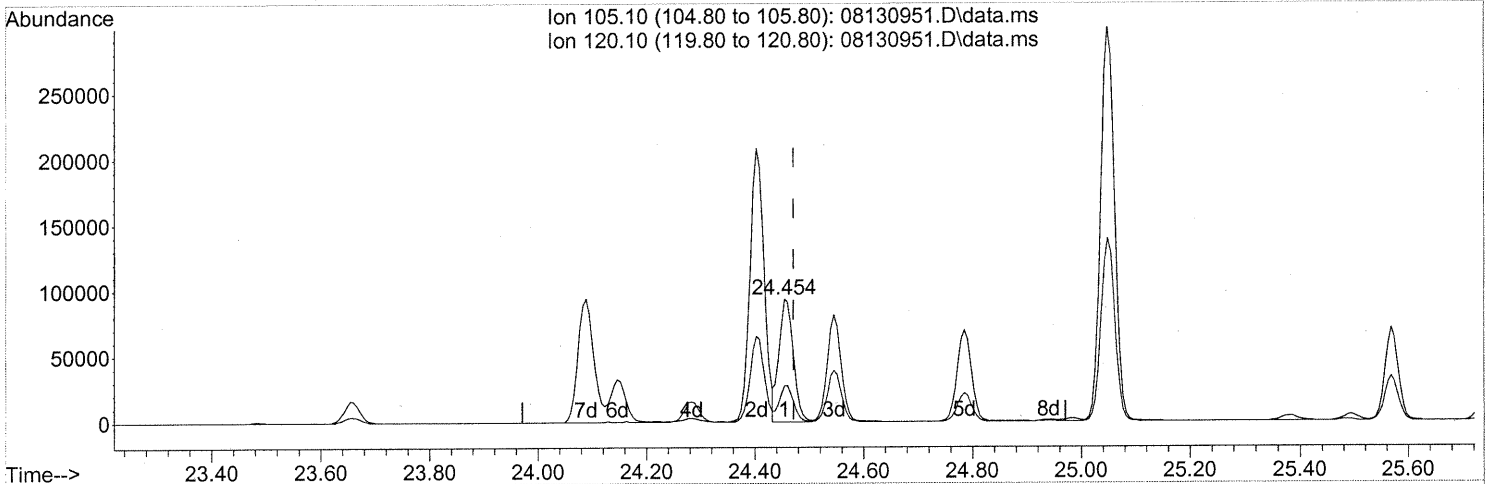
response 131938

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	22.01
65.00	10.20	15.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

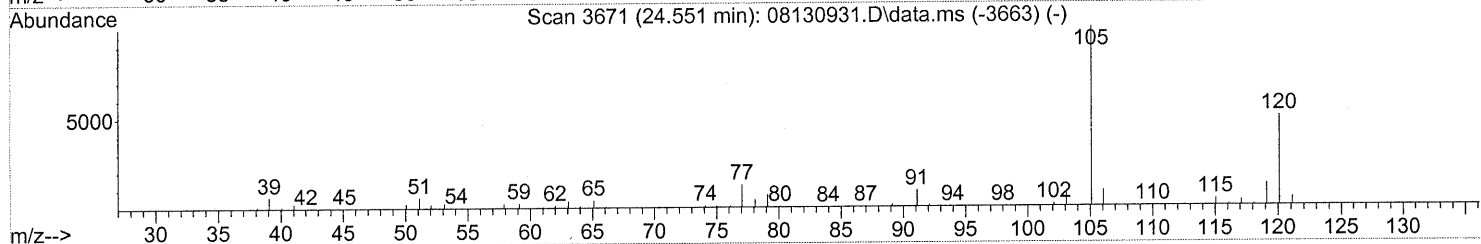
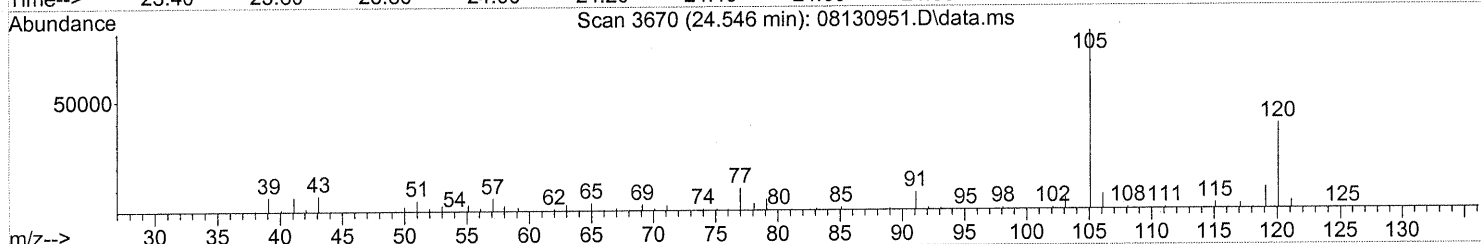
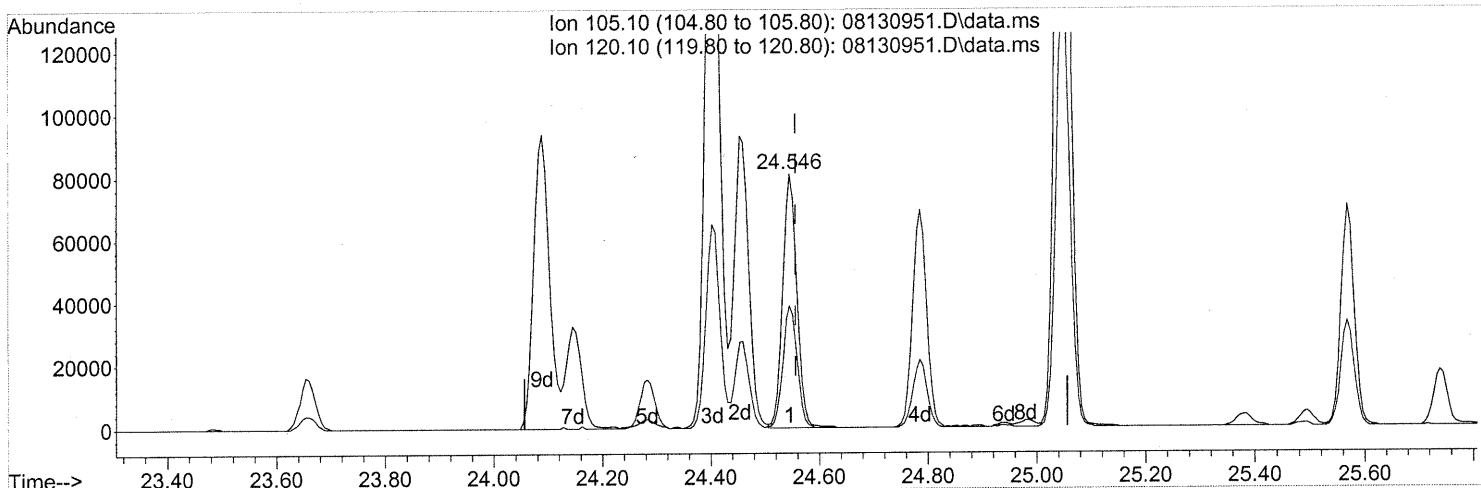
(78) 4-Ethyltoluene (T)
 24.454min (-0.017) 1.68ng
 response 172125

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	27.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

24.546min (-0.011) 1.71ng

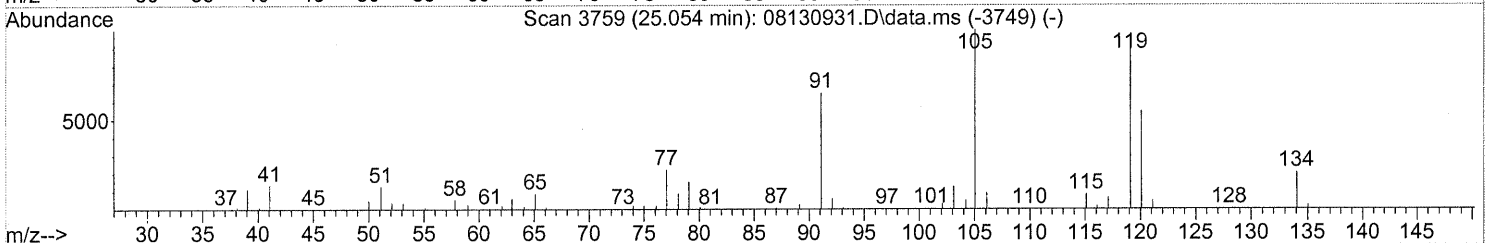
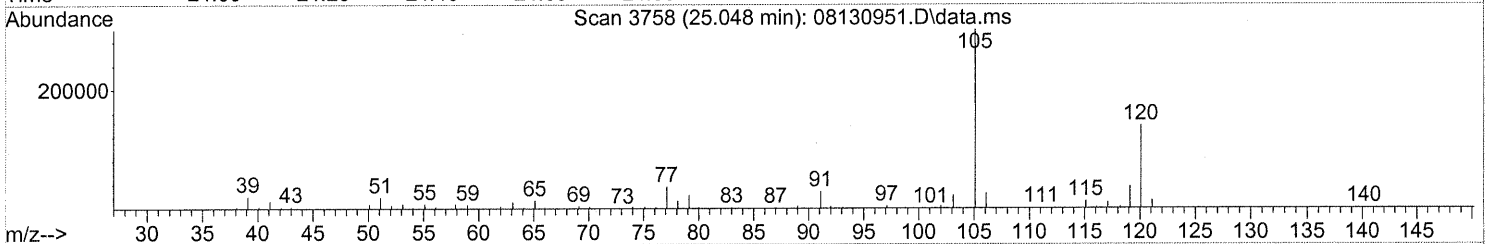
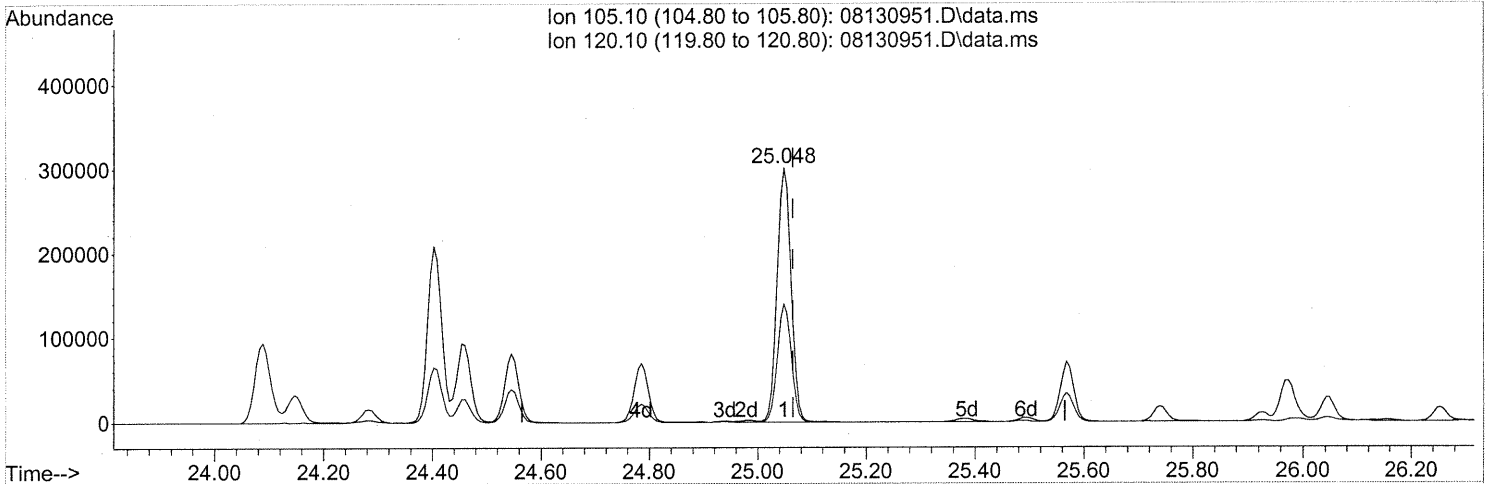
response 144982

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

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

25.048min (-0.017) 5.98ng

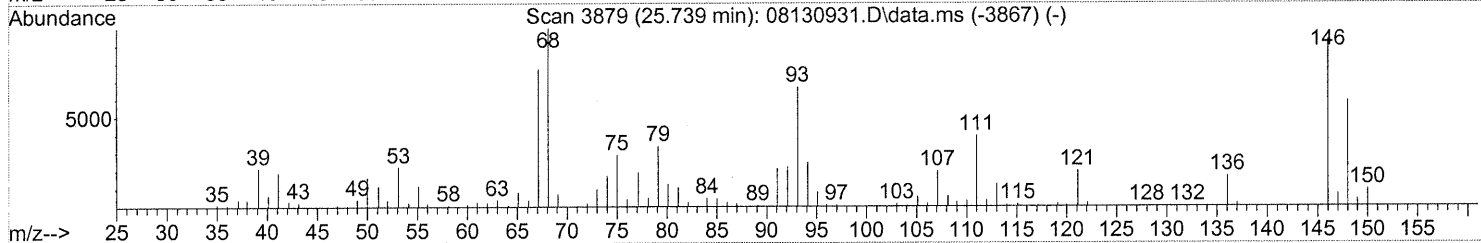
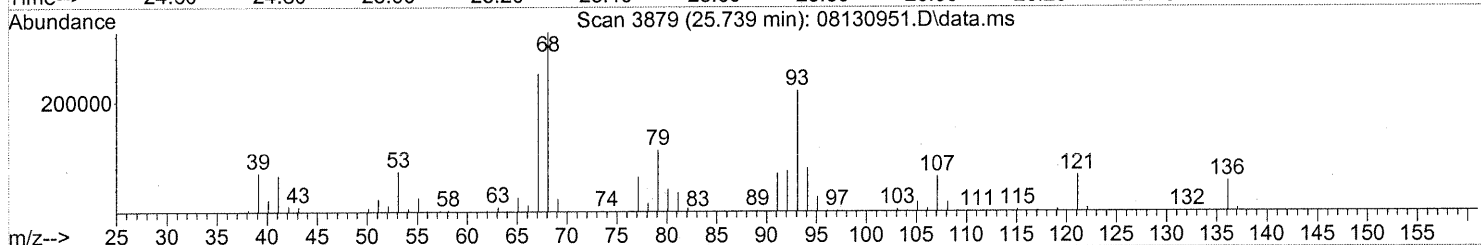
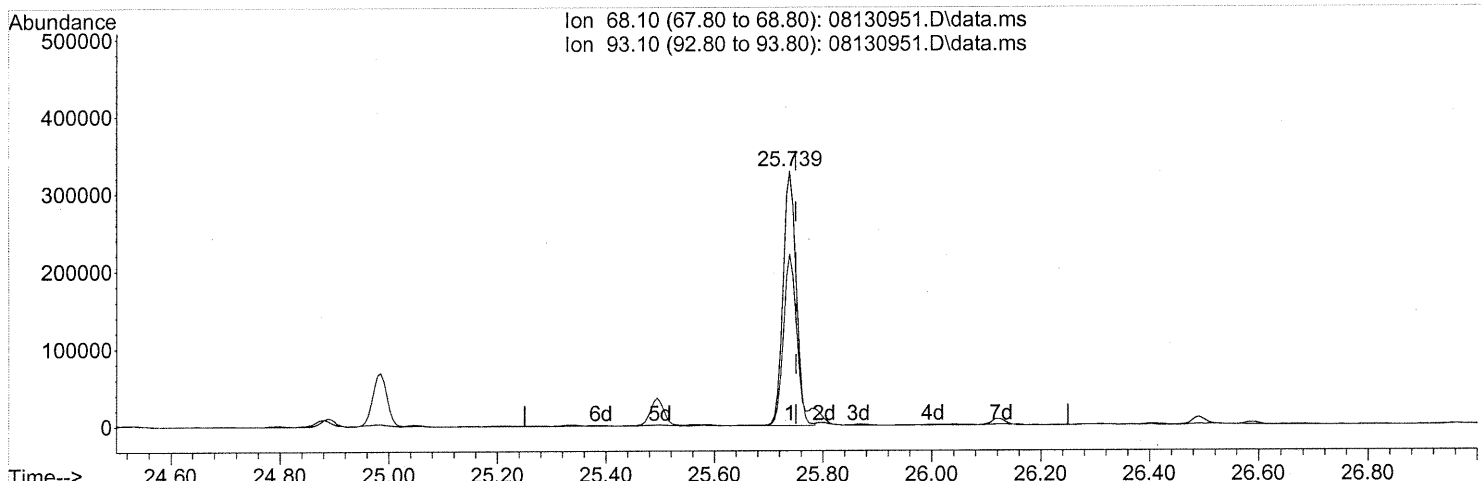
response 537678

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	46.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130951.D\data.ms

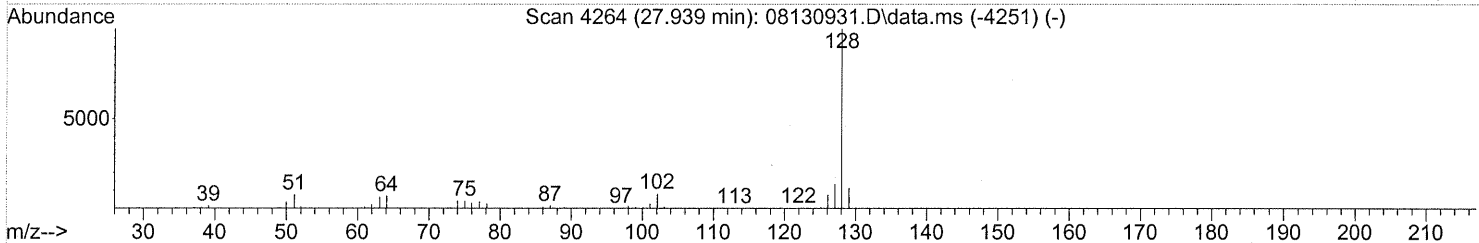
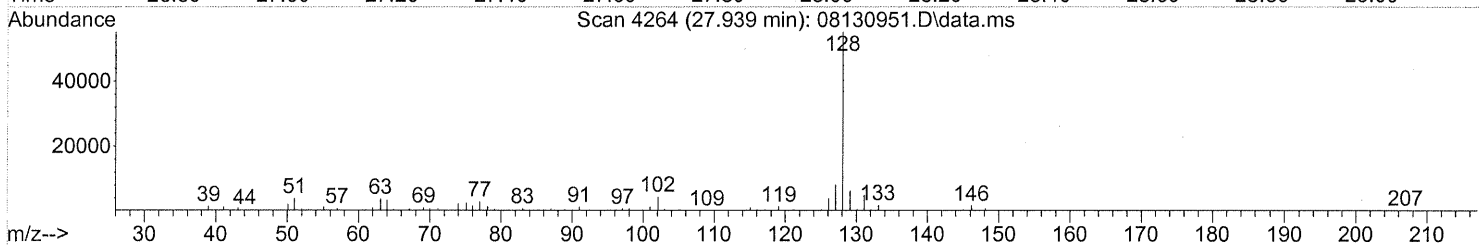
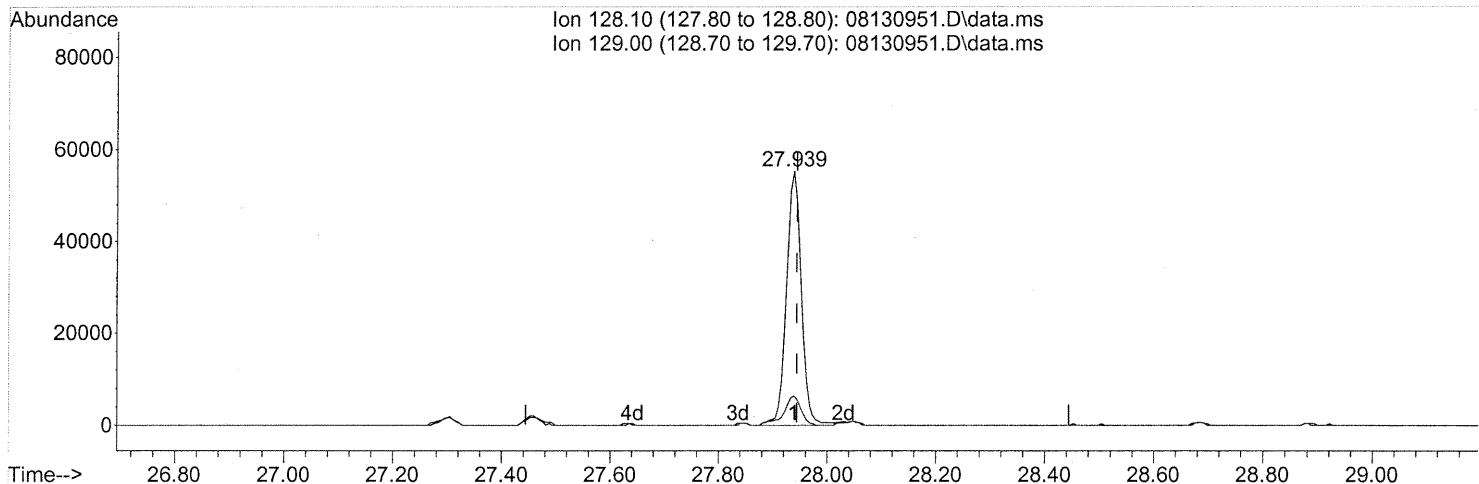
(91) d-Limonene (T)
 25.739min (-0.011) 14.93ng
 response 549146

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	74.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130951.D
 Acq On : 14 Aug 2009 20:30
 Operator : EM
 Sample : P0902720-005 (1000ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:54 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



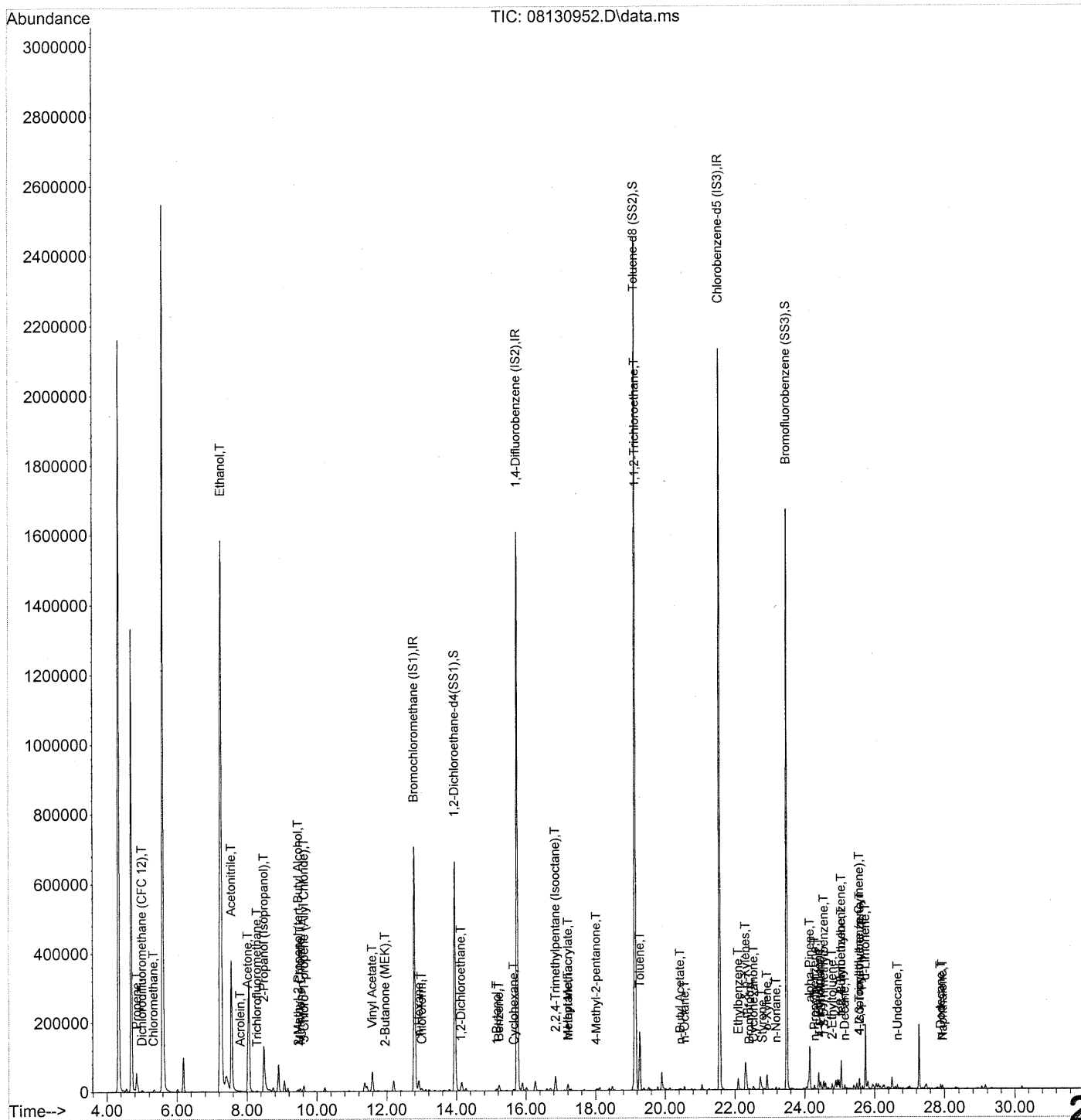
TIC: 08130951.D\data.ms

(95) Naphthalene (T)
 27.939min (-0.006) 0.86ng
 response 104066

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	13.10
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:14:59 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:14:59 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	373418	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1894604	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	919898	25.000	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.95	65	658888	24.954	ng	-0.03 ✓
Spiked Amount				25.000		
				Recovery =		99.80%
57) Toluene-d8 (SS2)	19.14	98	2185954	24.996	ng	-0.02 ✓
Spiked Amount				25.000		
				Recovery =		100.00%
73) Bromofluorobenzene (SS3)	23.49	174	608066	24.552	ng	0.00 ✓
Spiked Amount				25.000		
				Recovery =		98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	21023	0.642	ng	91
3) Dichlorodifluoromethan...	5.00	85	5909	0.126	ng	# 94
4) Chloromethane	5.33	50	4999	0.115	ng	92
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	7.26	45	3357191	163.387	ng	
11) Acetonitrile	7.55	41	578340	11.533	ng	99
12) Acrolein	7.80	56	1988	0.148	ng	90
13) Acetone	8.02	58	82503	3.946	ng	# 22
14) Trichlorofluoromethane	8.28	101	3583	0.090	ng	94
15) 2-Propanol (Isopropanol)	8.48	45	318063	5.555	ng	92
16) Acrylonitrile	8.74	53	937	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.47	59	9925	0.171	ng	# 67
19) Methylene Chloride	9.53	84	4860	0.186	ng	89
20) 3-Chloro-1-propene (Al...	9.63	41	5059	0.145	ng	# 34
21) Trichlorotrifluoroethane	9.98	151	114	N.D.		
22) Carbon Disulfide	9.93	76	3605	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	11.59	86	1836	0.405	ng	# 1
27) 2-Butanone (MEK)	11.96	72	1404	0.096	ng	# 1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.95	61	104	N.D.		
31) n-Hexane	12.92	57	19455	0.422	ng	

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em 8/18/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:14:59 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	6424	0.167	ng	98
34) Tetrahydrofuran (THF)	13.63	72	105	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	10389	0.352	ng	99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.16	56	6890	0.281	ng	84
41) Benzene	15.22	78	20246	0.199	ng	98
42) Carbon Tetrachloride	15.45	117	1004	N.D.		
43) Cyclohexane	15.65	84	2439	0.062	ng	# 72
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.71	83	232	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...	16.85	57	50108	0.427	ng	100
50) Methyl Methacrylate	17.21	100	1334	0.131	ng	# 1
51) n-Heptane	17.20	71	5043	0.186	ng	90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	1431	0.065	ng	# 31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	169010	7.764	ng	# 8
58) Toluene	19.28	91	159523	1.505	ng	99
59) 2-Hexanone	19.59	43	2295	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.43	43	5935	0.099	ng	# 79
63) n-Octane	20.56	57	1804	0.076	ng	89
64) Tetrachloroethene	20.76	166	1097	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	32899	0.287	ng	98
67) m- & p-Xylenes	22.30	91	80859	0.891	ng	99
68) Bromoform	22.41	173	1534	0.078	ng	84
69) Styrene	22.78	104	3544	0.053	ng	91
70) o-Xylene	22.92	91	31883	0.349	ng	99
71) n-Nonane	23.17	43	3617	0.066	ng	81
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	3187	N.D.		
75) alpha-Pinene	24.15	93	56118	0.961	ng	79
76) n-Propylbenzene	24.28	91	12422	0.085	ng	92
77) 3-Ethyltoluene	24.40	105	36172	0.326	ng	97
78) 4-Ethyltoluene	24.46	105	16362	0.147	ng	96
79) 1,3,5-Trimethylbenzene	24.55	105	14307	0.155	ng	97

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 15:14:59 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

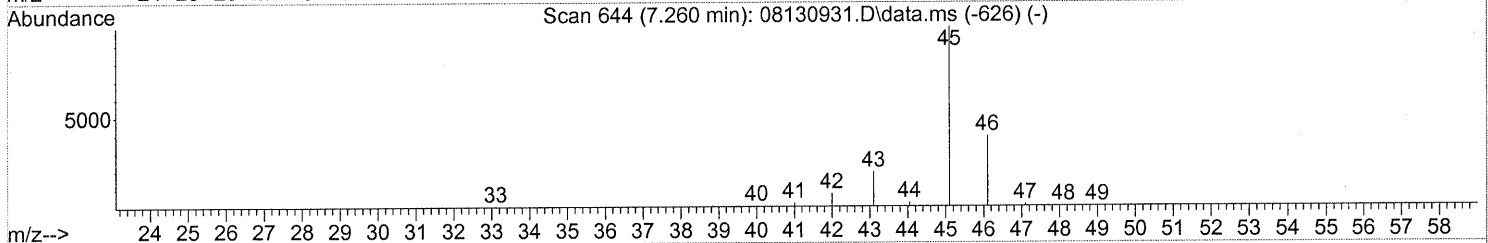
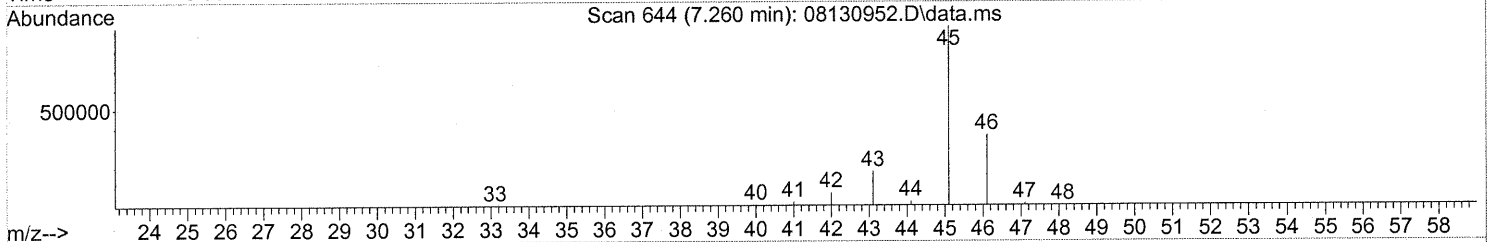
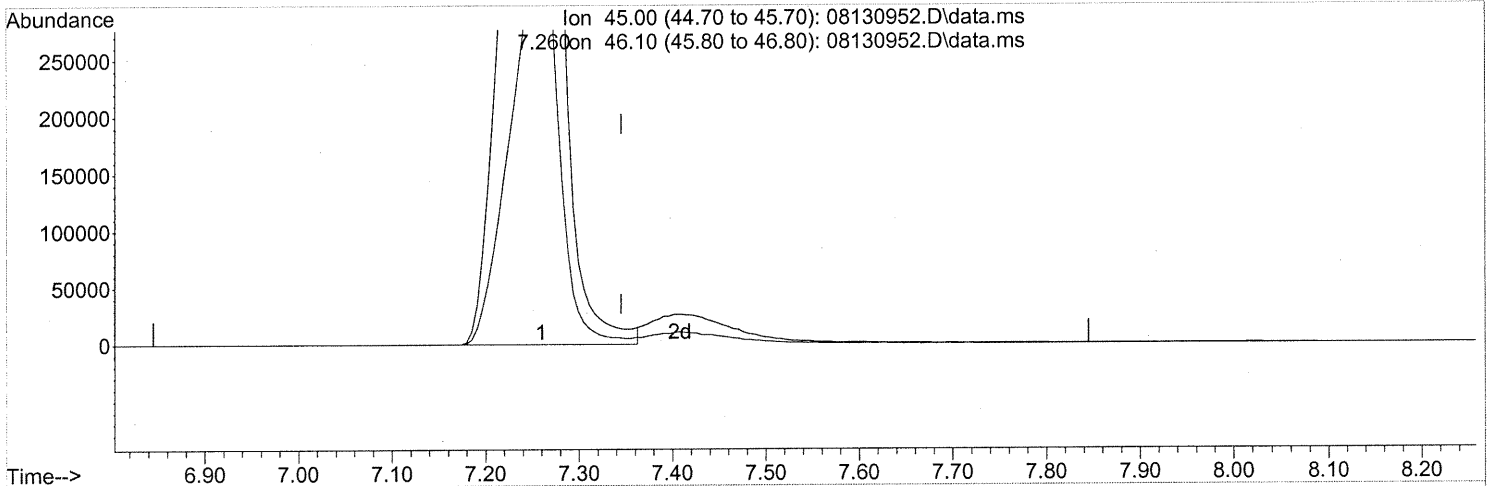
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	25.05	118	402	N.D.		
81) 2-Ethyltoluene	24.79	105	12266	0.107	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	51115	0.522	ng	87
83) n-Decane	25.15	57	5048	0.089	ng	91
84) Benzyl Chloride	25.33	91	373	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.37	105	717	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	8461	0.068	ng	92
89) 1,2,3-Trimethylbenzene	25.57	105	11852	0.120	ng	90
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.74	68	49466	1.235	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	3876	0.066	ng	95
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	10185	0.078	ng	93
96) n-Dodecane	27.89	57	4613	0.070	ng	89
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	4102	0.123	ng	88
99) tert-Butylbenzene	25.05	119	6052	0.062	ng	# 54
100) n-Butylbenzene	26.06	91	3850	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:58 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130952.D\data.ms

(10) Ethanol (T)
 7.260min (-0.086) 155.45ng
 response 3194143

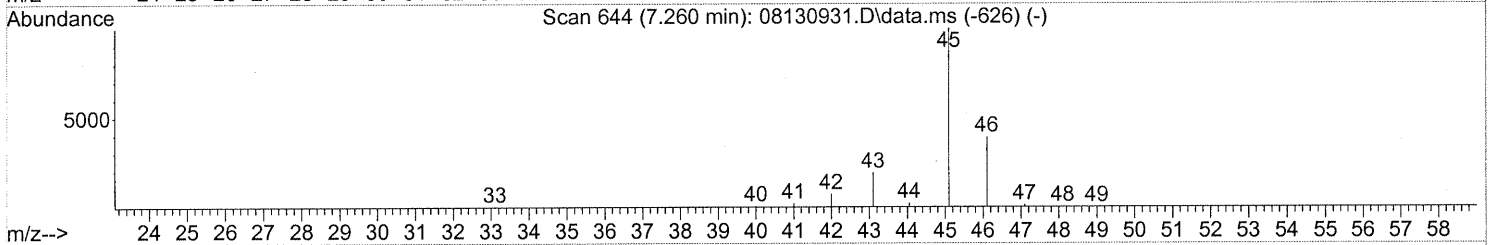
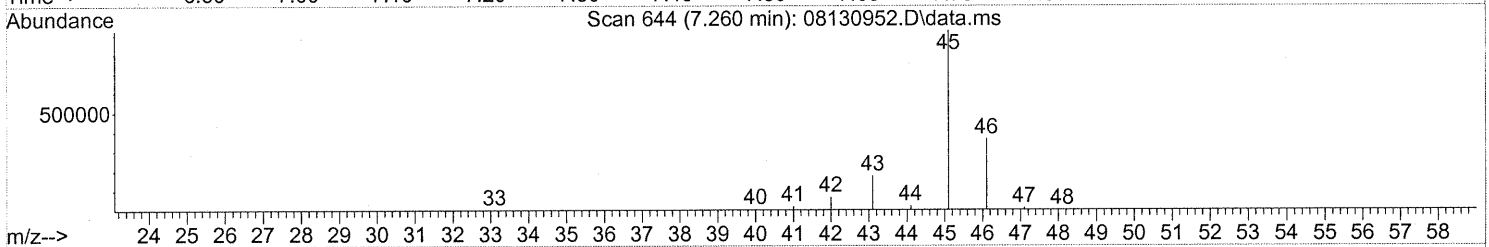
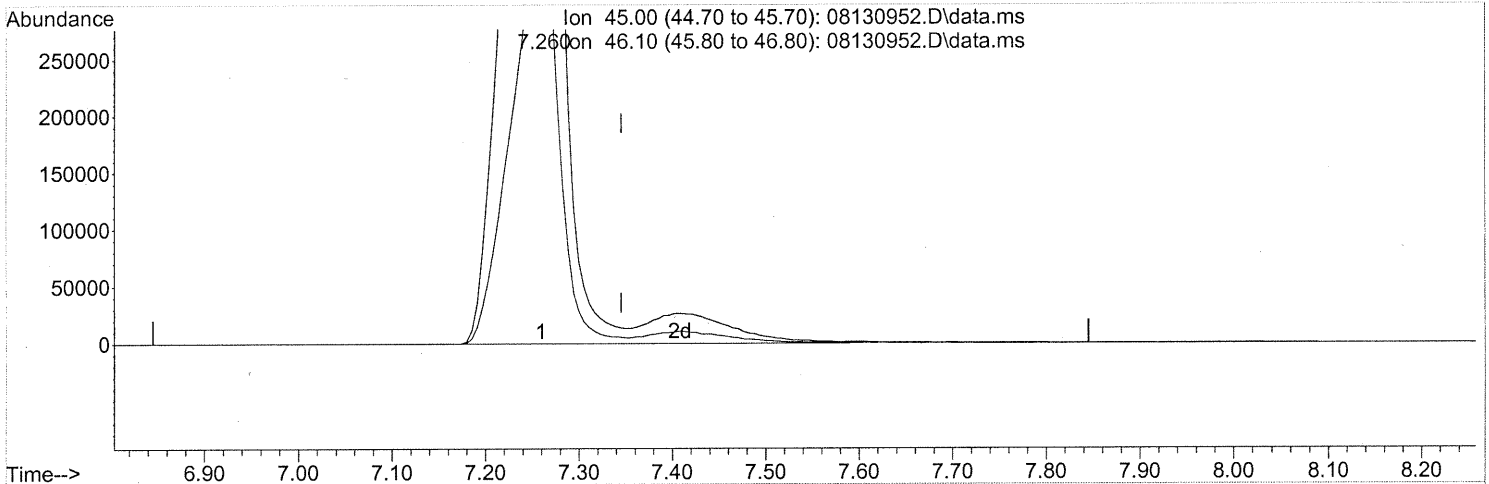
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.31
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:58 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130952.D\data.ms

(10) Ethanol (T)
 7.260min (-0.086) 163.39ng m
 response 3357191

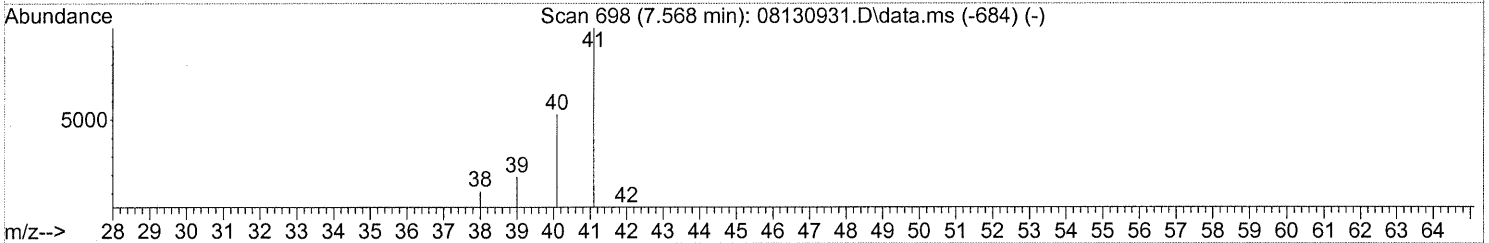
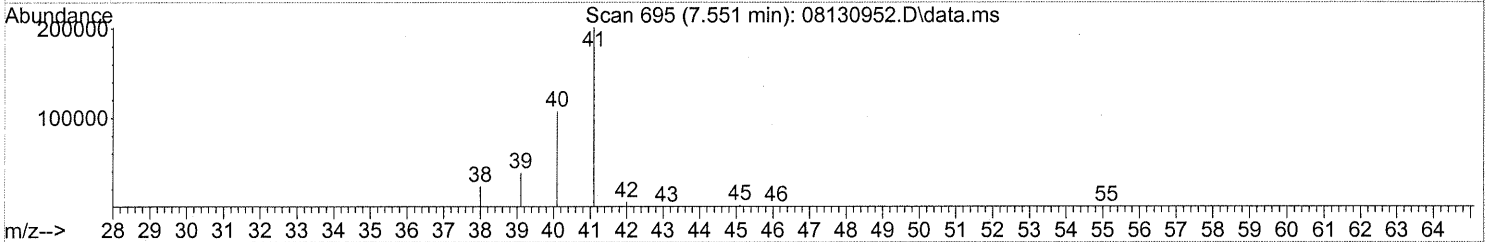
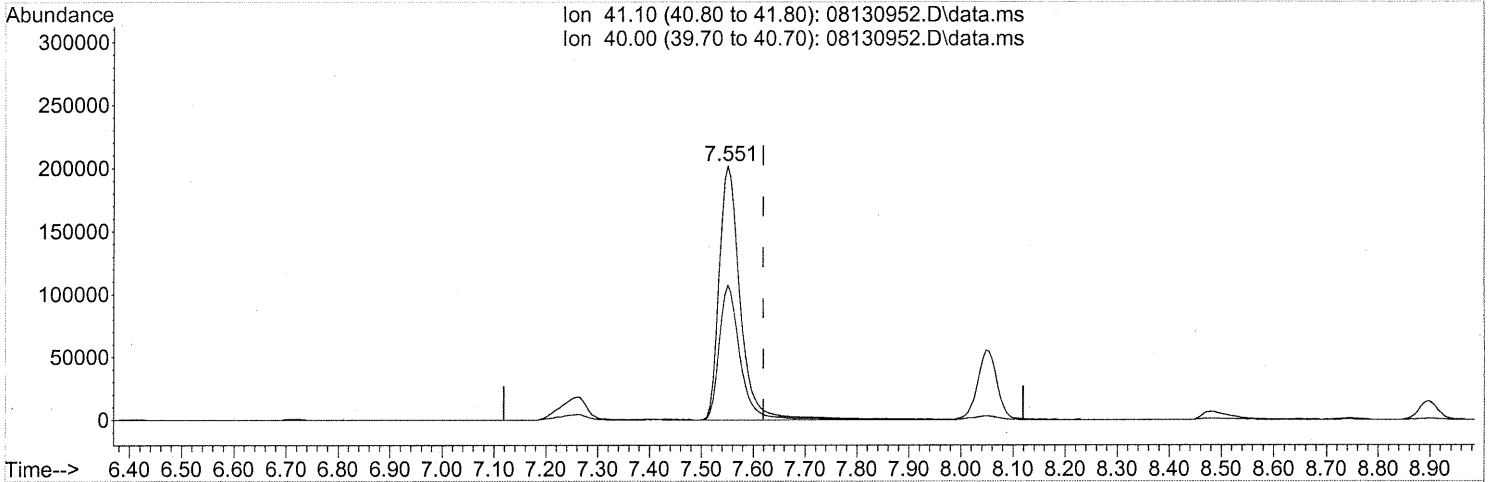
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.40
0.00	0.00	0.00
0.00	0.00	0.00

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em 8/18/09
um 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130952.D
 Acq On : 14 Aug 2009 21:11
 Operator : EM
 Sample : P0902720-005 dil (100ml)
 Misc : Environmental H & E 100676
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 17 08:25:58 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130952.D\data.ms

(11) Acetonitrile (T)
 7.551min (-0.069) 11.53ng
 response 578340

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.86
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100677
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01049

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	0.98	0.73	0.57	0.42	MI
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.73	0.48	0.15	
74-87-3	Chloromethane	0.43	0.15	0.21	0.071	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.73	ND	0.10	
75-01-4	Vinyl Chloride	ND	0.15	ND	0.057	
106-99-0	1,3-Butadiene	ND	0.15	ND	0.066	
74-83-9	Bromomethane	ND	0.15	ND	0.038	
75-00-3	Chloroethane	ND	0.15	ND	0.055	
64-17-5	Ethanol	79	7.3	42	3.9	
75-05-8	Acetonitrile	6.0	0.73	3.6	0.43	
107-02-8	Acrolein	0.77	0.73	0.34	0.32	
67-64-1	Acetone	10	7.3	4.3	3.1	
75-69-4	Trichlorofluoromethane	1.2	0.15	0.22	0.026	
67-63-0	2-Propanol (Isopropyl Alcohol)	2.5	0.73	1.0	0.30	
107-13-1	Acrylonitrile	ND	0.73	ND	0.34	
75-35-4	1,1-Dichloroethene	ND	0.15	ND	0.037	
75-09-2	Methylene Chloride	ND	0.73	ND	0.21	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	ND	0.047	
76-13-1	Trichlorotrifluoroethane	0.56	0.15	0.073	0.019	
75-15-0	Carbon Disulfide	ND	0.73	ND	0.23	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	ND	0.037	
75-34-3	1,1-Dichloroethane	ND	0.15	ND	0.036	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	ND	0.041	
108-05-4	Vinyl Acetate	ND	7.3	ND	2.1	
78-93-3	2-Butanone (MEK)	0.76	0.73	0.26	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.

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

Verified By: _____



Date: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100677

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-006

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01049

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

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	0.037	
141-78-6	Ethyl Acetate	ND	1.5	ND	0.41	
110-54-3	n-Hexane	ND	0.73	ND	0.21	
67-66-3	Chloroform	7.6	0.15	1.6	0.030	
109-99-9	Tetrahydrofuran (THF)	ND	0.73	ND	0.25	
107-06-2	1,2-Dichloroethane	0.23	0.15	0.057	0.036	
71-55-6	1,1,1-Trichloroethane	ND	0.15	ND	0.027	
71-43-2	Benzene	0.49	0.15	0.15	0.046	
56-23-5	Carbon Tetrachloride	0.53	0.15	0.084	0.023	
110-82-7	Cyclohexane	ND	0.73	ND	0.21	
78-87-5	1,2-Dichloropropane	ND	0.15	ND	0.032	
75-27-4	Bromodichloromethane	0.15	0.15	0.022	0.022	
79-01-6	Trichloroethene	ND	0.15	ND	0.027	
123-91-1	1,4-Dioxane	ND	0.73	ND	0.20	
80-62-6	Methyl Methacrylate	ND	1.5	ND	0.36	
142-82-5	n-Heptane	ND	0.73	ND	0.18	
10061-01-5	cis-1,3-Dichloropropene	ND	0.73	ND	0.16	
108-10-1	4-Methyl-2-pentanone	ND	0.73	ND	0.18	
10061-02-6	trans-1,3-Dichloropropene	ND	0.73	ND	0.16	
79-00-5	1,1,2-Trichloroethane	ND	0.15	ND	0.027	
108-88-3	Toluene	1.9	0.73	0.51	0.19	
591-78-6	2-Hexanone	ND	0.73	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	0.73	ND	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.

Verified By: _____



Date: _____

8/2/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100677
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01049

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.46

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.73	ND	0.16	
127-18-4	Tetrachloroethene	0.18	0.15	0.026	0.022	
108-90-7	Chlorobenzene	ND	0.15	ND	0.032	
100-41-4	Ethylbenzene	ND	0.73	ND	0.17	
179601-23-1	m,p-Xylenes	1.1	0.73	0.26	0.17	
75-25-2	Bromoform	ND	0.73	ND	0.071	
100-42-5	Styrene	ND	0.73	ND	0.17	
95-47-6	o-Xylene	ND	0.73	ND	0.17	
111-84-2	n-Nonane	ND	0.73	ND	0.14	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	ND	0.021	
98-82-8	Cumene	ND	0.73	ND	0.15	
80-56-8	alpha-Pinene	2.0	0.73	0.36	0.13	
103-65-1	n-Propylbenzene	ND	0.73	ND	0.15	
622-96-8	4-Ethyltoluene	ND	0.73	ND	0.15	
108-67-8	1,3,5-Trimethylbenzene	ND	0.73	ND	0.15	
95-63-6	1,2,4-Trimethylbenzene	ND	0.73	ND	0.15	
100-44-7	Benzyl Chloride	ND	0.15	ND	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.15	ND	0.024	
106-46-7	1,4-Dichlorobenzene	ND	0.15	ND	0.024	
95-50-1	1,2-Dichlorobenzene	ND	0.15	ND	0.024	
5989-27-5	d-Limonene	0.93	0.73	0.17	0.13	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.73	ND	0.076	
120-82-1	1,2,4-Trichlorobenzene	ND	0.73	ND	0.098	
91-20-3	Naphthalene	ND	0.73	ND	0.14	
87-68-3	Hexachlorobutadiene	ND	0.73	ND	0.068	

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: _____

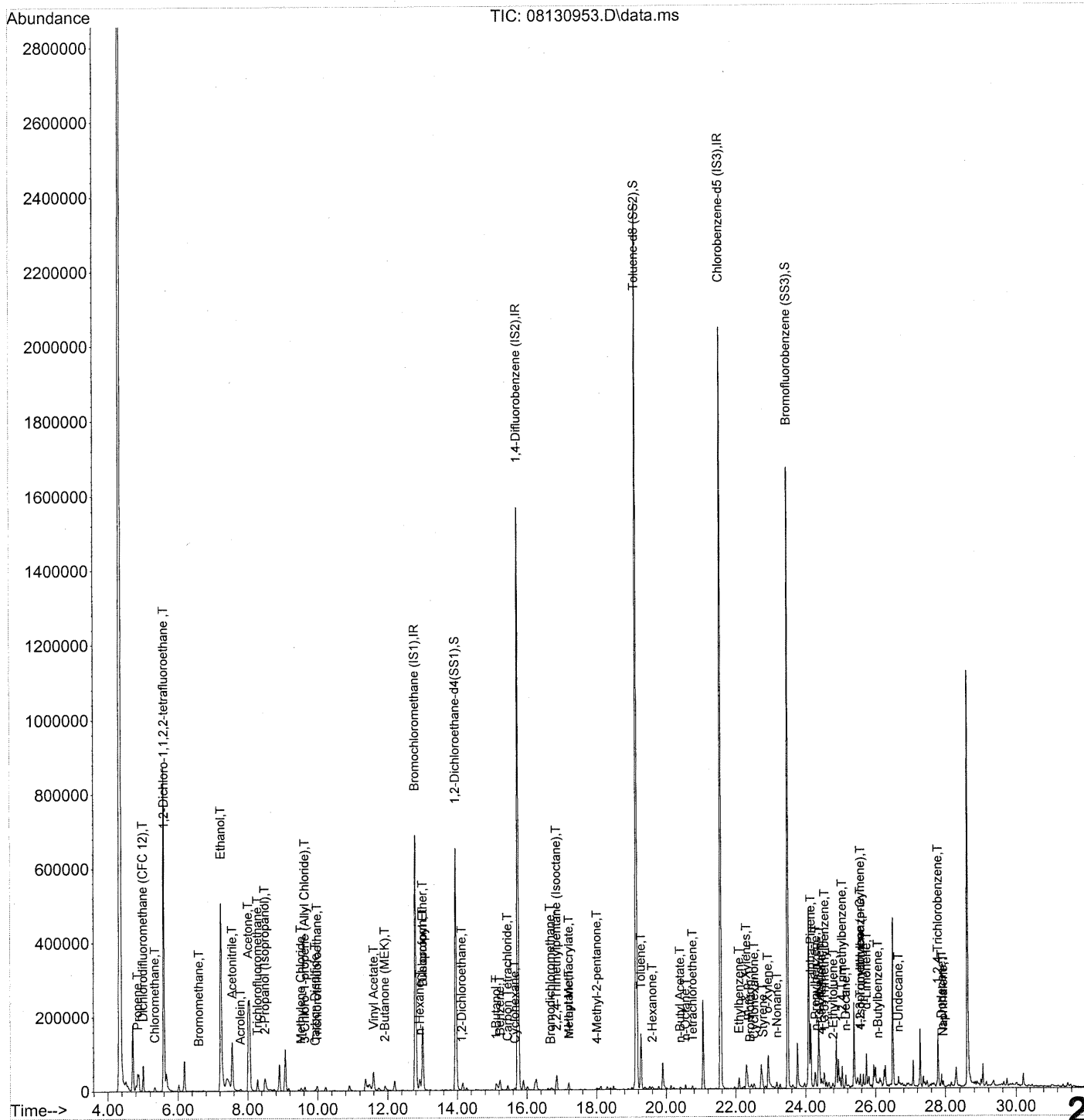
Date: _____

8/24/09

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Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130953.D
Acq On : 14 Aug 2009 21:53
Operator : EM
Sample : P0902720-006 (1000ml)
Misc : Environmental H & E 100677
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 15:59:24 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	358860	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1846826	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	891789	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	641025	25.263	ng	-0.03
Spiked Amount				25.000		
				Recovery	= 101.04%	
57) Toluene-d8 (SS2)	19.14	98	2120480	25.012	ng	-0.02
Spiked Amount				25.000		
				Recovery	= 100.04%	
73) Bromofluorobenzene (SS3)	23.49	174	598611	24.932	ng	0.00
Spiked Amount				25.000		
				Recovery	= 99.72%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	21195	0.673	ng	# 77
3) Dichlorodifluoromethan...	5.00	85	73008	1.625	ng	99
4) Chloromethane	5.34	50	12350	0.295	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.61	135	1378	0.058	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	221	N.D.		
8) Bromomethane	6.59	94	1232	0.057	ng	96
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.23	45	1070327m	54.204	ng	
11) Acetonitrile	7.56	41	197656	4.102	ng	99
12) Acrolein	7.79	56	6793	0.528	ng	99
13) Acetone	8.01	58	140606	6.997	ng	# 79
14) Trichlorofluoromethane	8.28	101	32867	0.855	ng	97
15) 2-Propanol (Isopropanol)	8.49	45	94753m	1.722	ng	
16) Acrylonitrile	8.90	53	774	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.51	59	738	N.D.		
19) Methylene Chloride	9.52	84	5002	0.200	ng	90
20) 3-Chloro-1-propene (Al...	9.64	41	2609	0.078	ng	# 34
21) Trichlorotrifluoroethane	9.98	151	6577	0.382	ng	95
22) Carbon Disulfide	9.93	76	6496	0.073	ng	# 75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.60	86	3261	0.749	ng	# 1
27) 2-Butanone (MEK)	11.92	72	7261	0.518	ng	# 60
28) cis-1,2-Dichloroethene	12.57	61	485	N.D.		
29) Diisopropyl Ether	13.01	87	19683	0.990	ng	# 1
30) Ethyl Acetate	12.94	61	109	N.D.		
31) n-Hexane	12.92	57	18455	0.417	ng	9

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	192539	5.195 ng		99
34) Tetrahydrofuran (THF)	13.64	72	106	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	4445	0.157 ng		86
38) 1,1,1-Trichloroethane	14.53	97	453	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.11	56	24484	1.023 ng		83
41) Benzene	15.23	78	33102	0.333 ng		95
42) Carbon Tetrachloride	15.45	117	10039	0.362 ng		98
43) Cyclohexane	15.66	84	3179	0.083 ng	#	77
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.69	83	2999	0.103 ng	#	72
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	46667	0.408 ng		100
50) Methyl Methacrylate	17.21	100	1420	0.143 ng	#	1
51) n-Heptane	17.20	71	5715	0.216 ng		90
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.02	58	1313	0.061 ng	#	31
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	19.28	91	134779	1.311 ng		100
59) 2-Hexanone	19.60	43	9882	0.185 ng	#	68
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.40	43	6813	0.117 ng		93
63) n-Octane	20.56	57	2262	0.099 ng		86
64) Tetrachloroethene	20.76	166	3094	0.121 ng		86
65) Chlorobenzene	21.63	112	122	N.D.		
66) Ethylbenzene	22.09	91	29674	0.267 ng		97
67) m- & p-Xylenes	22.30	91	68179	0.775 ng		99
68) Bromoform	22.41	173	2188	0.115 ng		74
69) Styrene	22.77	104	6829	0.105 ng		95
70) o-Xylene	22.92	91	25240	0.285 ng		99
71) n-Nonane	23.17	43	9373	0.176 ng		90
72) 1,1,2,2-Tetrachloroethane	22.91	83	352	N.D.		
74) Cumene	23.66	105	2493	N.D.		
75) alpha-Pinene	24.15	93	77575	1.370 ng		88
76) n-Propylbenzene	24.28	91	9563	0.067 ng	#	31
77) 3-Ethyltoluene	24.40	105	25297	0.235 ng		99
78) 4-Ethyltoluene	24.46	105	12489	0.116 ng		92
79) 1,3,5-Trimethylbenzene	24.55	105	8794	0.098 ng		92

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Quant Time: Aug 17 15:59:24 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration

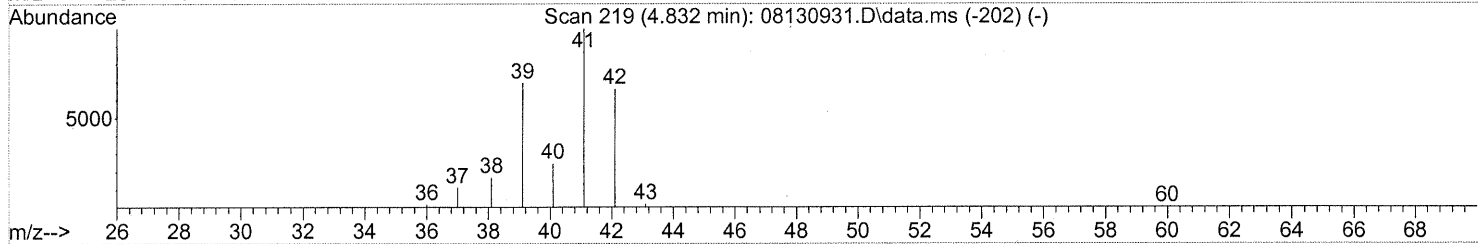
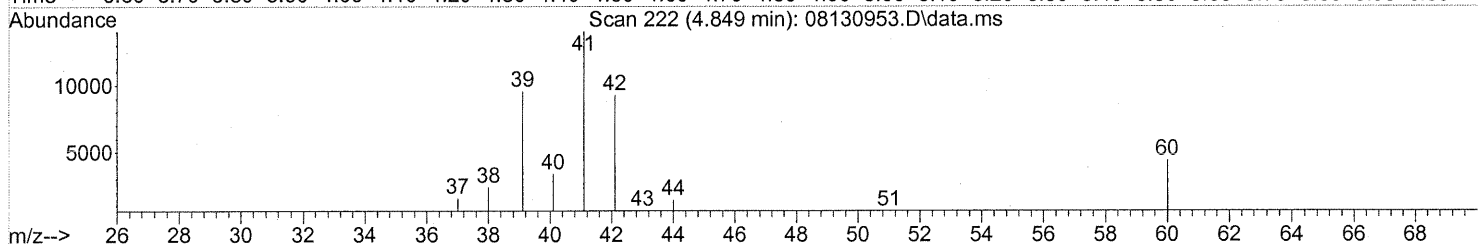
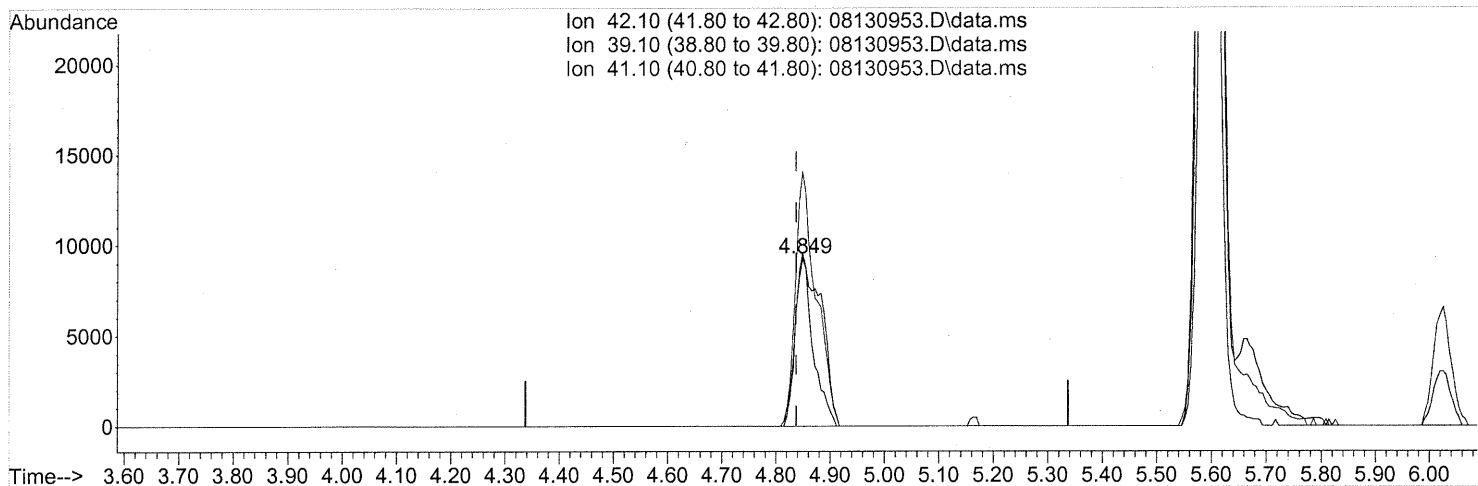
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	235	N.D.		
81) 2-Ethyltoluene	24.79	105	9217	0.083	ng	94
82) 1,2,4-Trimethylbenzene	25.05	105	32494	0.343	ng	88
83) n-Decane	25.15	57	15139	0.274	ng	88
84) Benzyl Chloride	25.22	91	212	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	1438	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1438	N.D.		
87) sec-Butylbenzene	25.39	105	1304	N.D.		
88) 4-Isopropyltoluene (p-...	25.57	119	7796	0.065	ng	92
89) 1,2,3-Trimethylbenzene	25.57	105	8069	0.084	ng	95
90) 1,2-Dichlorobenzene	25.33	146	1438	N.D.		
91) d-Limonene	25.74	68	24841	0.640	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	13333	0.234	ng	99
94) 1,2,4-Trichlorobenzene	27.79	180	2223	0.065	ng #	91
95) Naphthalene	27.94	128	14265	0.112	ng	98
96) n-Dodecane	27.89	57	11511	0.180	ng	96
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.52	55	6174	0.191	ng	93
99) tert-Butylbenzene	25.05	119	4000	N.D.		
100) n-Butylbenzene	26.07	91	7130	0.072	ng #	44

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
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 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



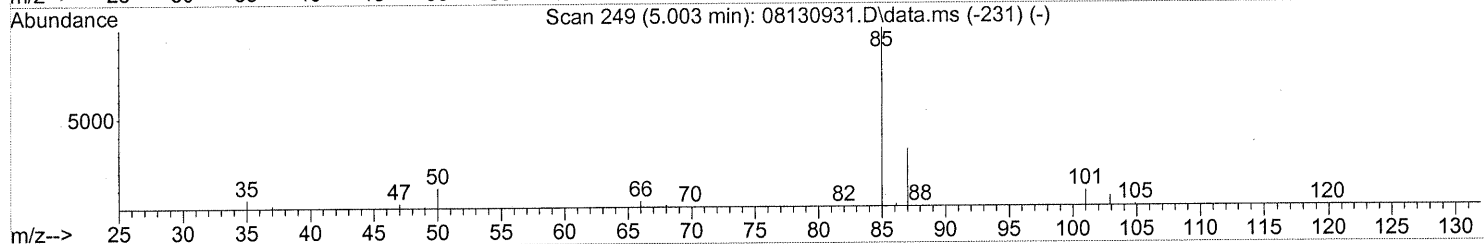
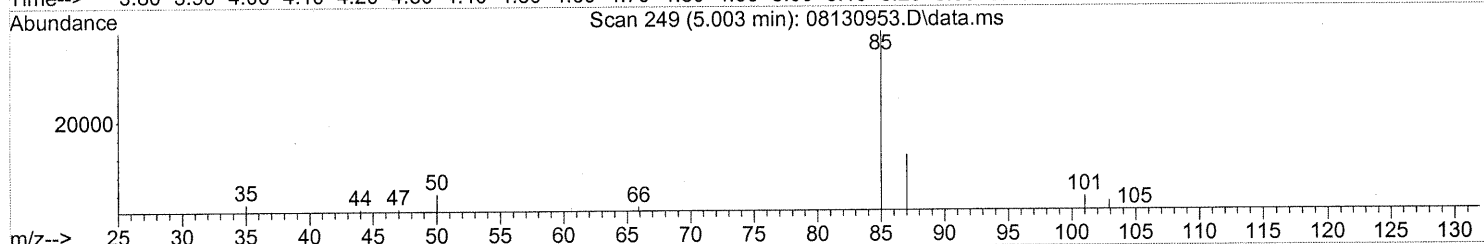
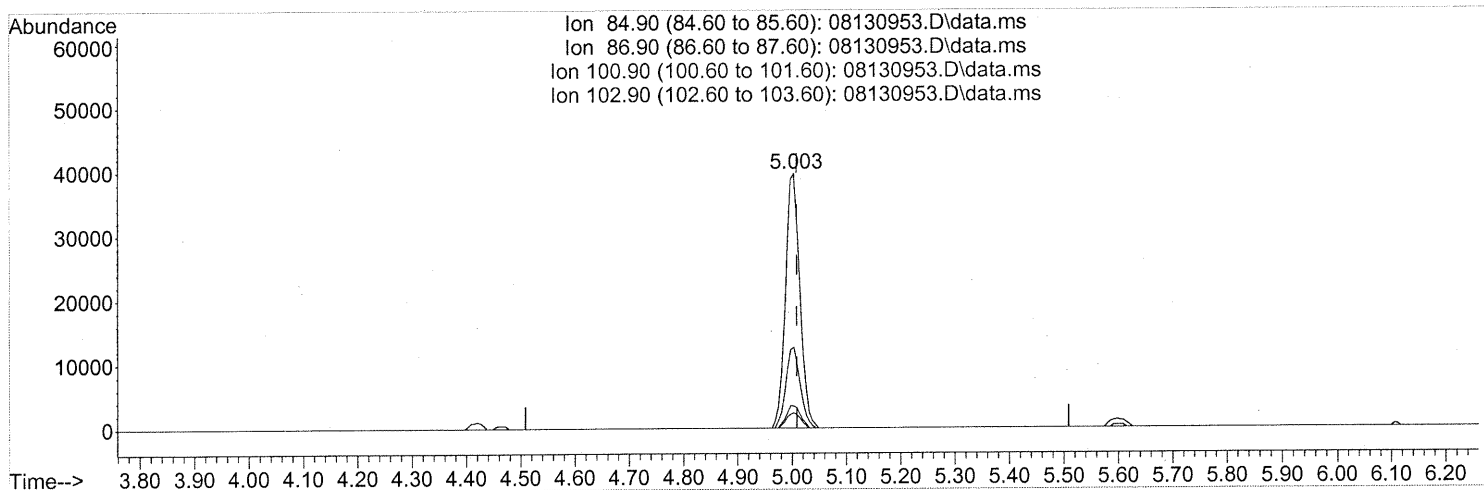
(2) Propene (T) *M*
 4.849min (+0.011) 0.67ng
 response 21195

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	147.84#
41.10	152.70	175.51#
0.00	0.00	0.00

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(3) Dichlorodifluoromethane (CFC 12) (T)

5.003min (-0.006) 1.62ng

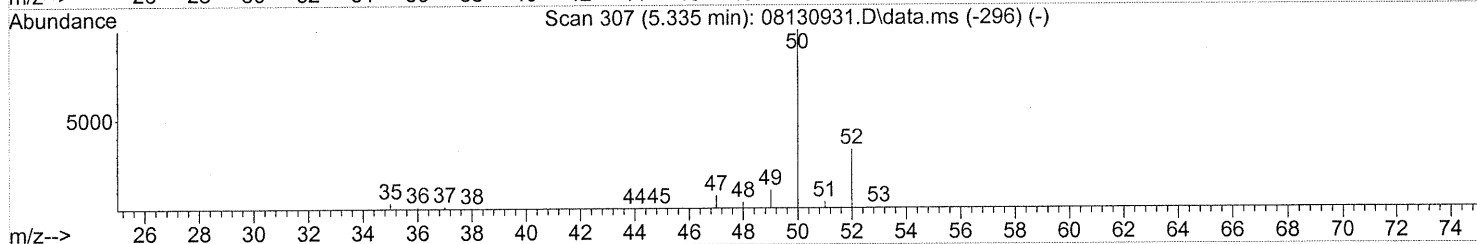
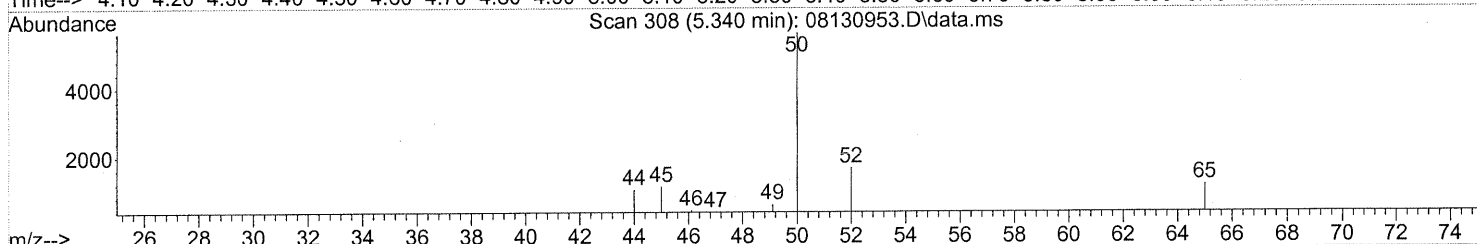
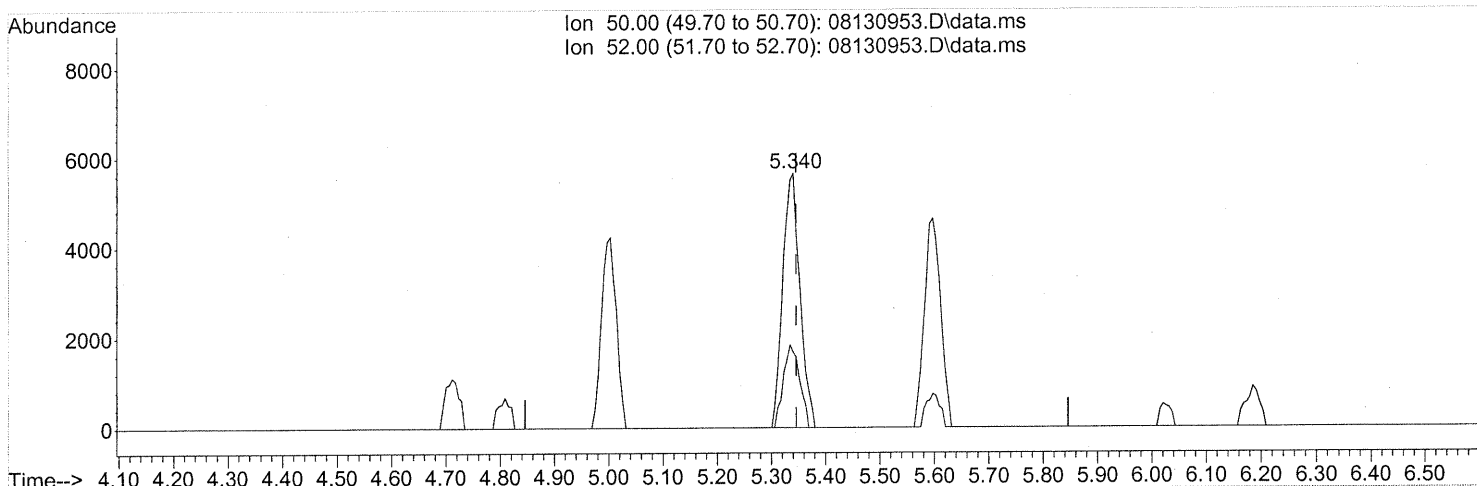
response 73008

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	31.67
100.90	9.10	8.57
102.90	5.50	5.72

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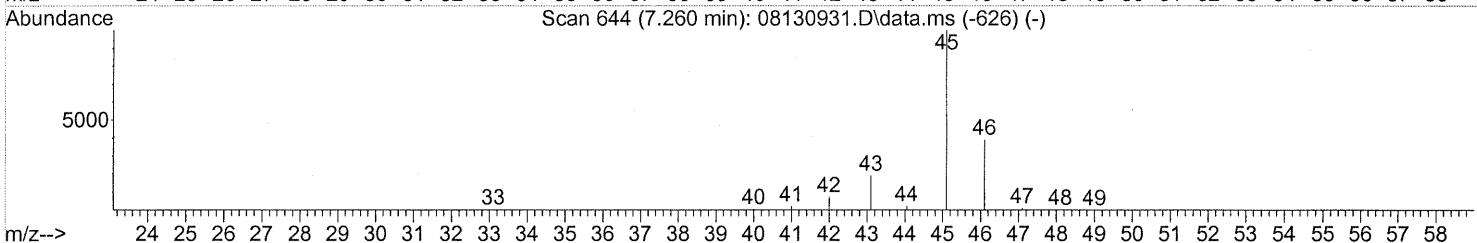
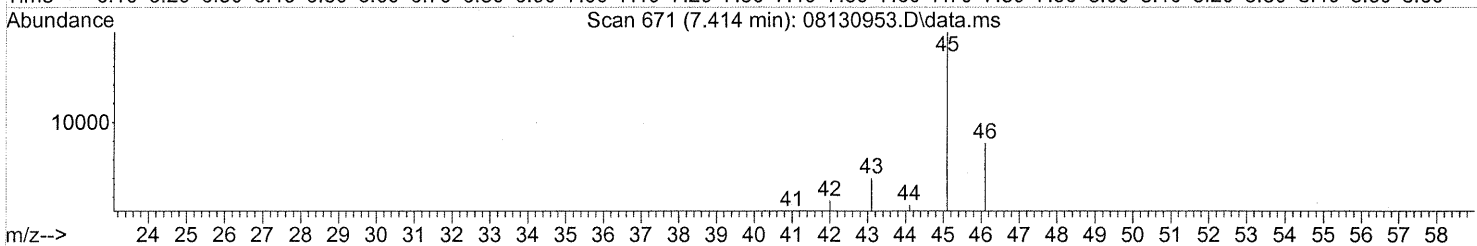
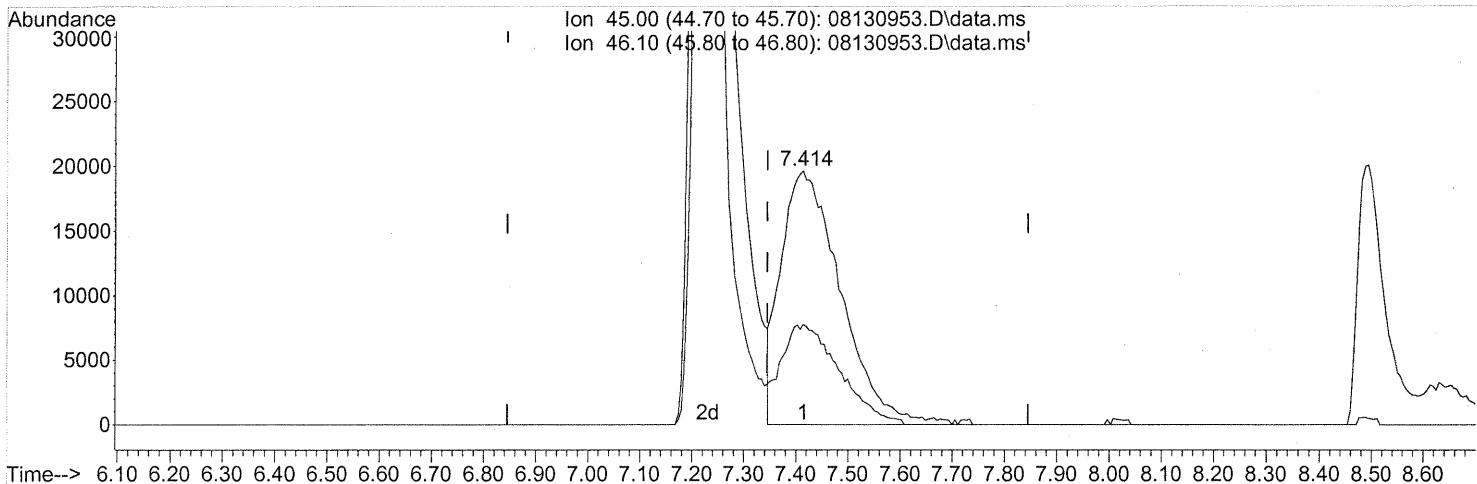
(4) Chloromethane (T)
 5.340min (-0.006) 0.29ng
 response 12350

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	30.90
0.00	0.00	0.00
0.00	0.00	0.00

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(10) Ethanol (T)
 7.414min (+0.068) 7.94ng
 response 156779

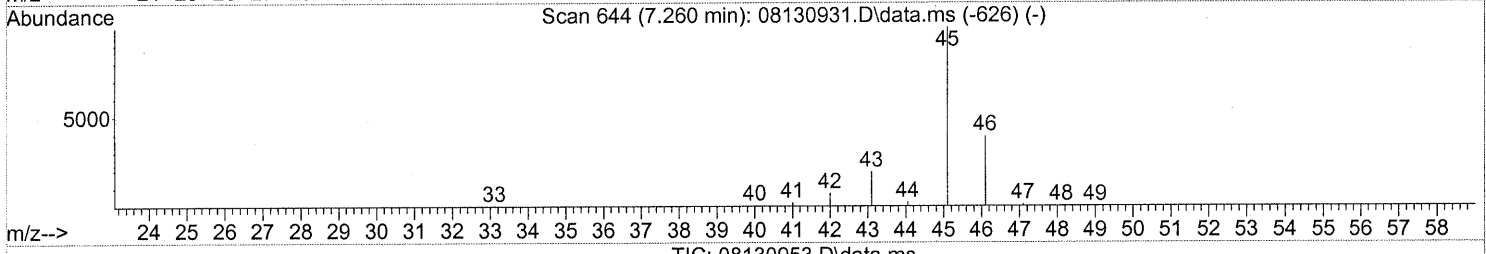
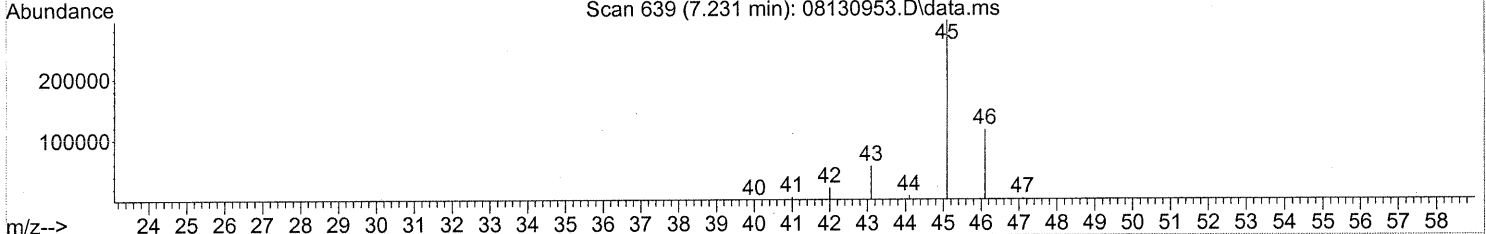
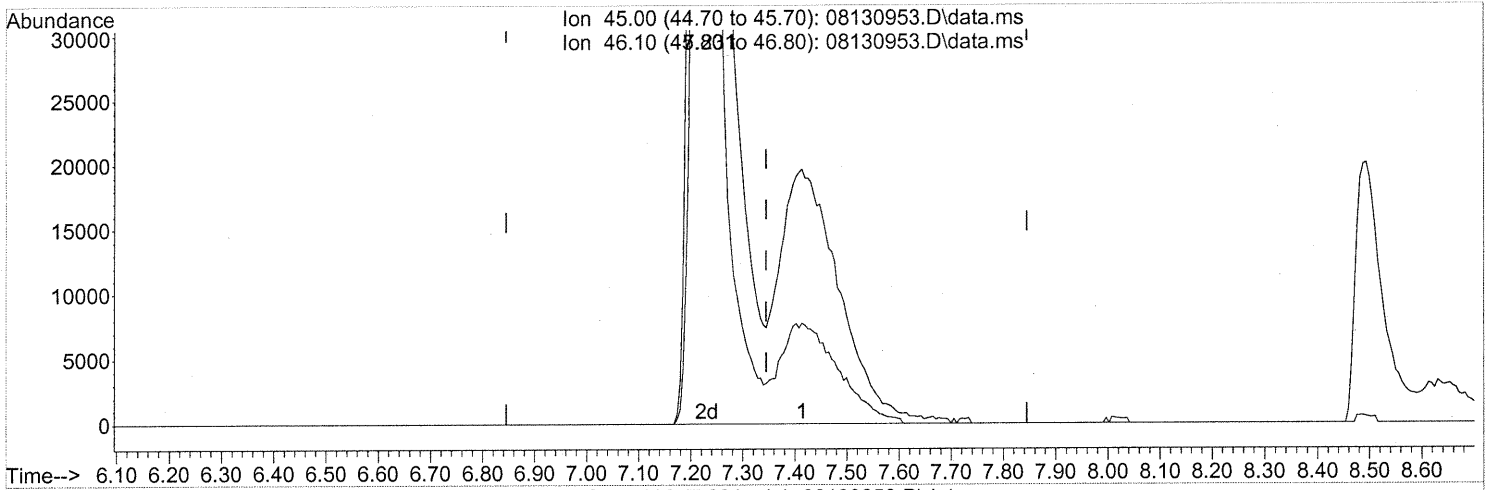
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.96
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

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(10) Ethanol (T)
 7.231min (-0.114) 54.20ng m
 response 1070327

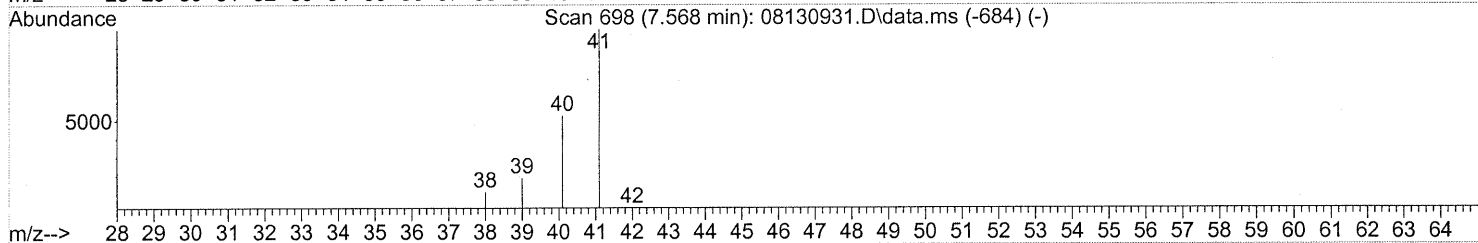
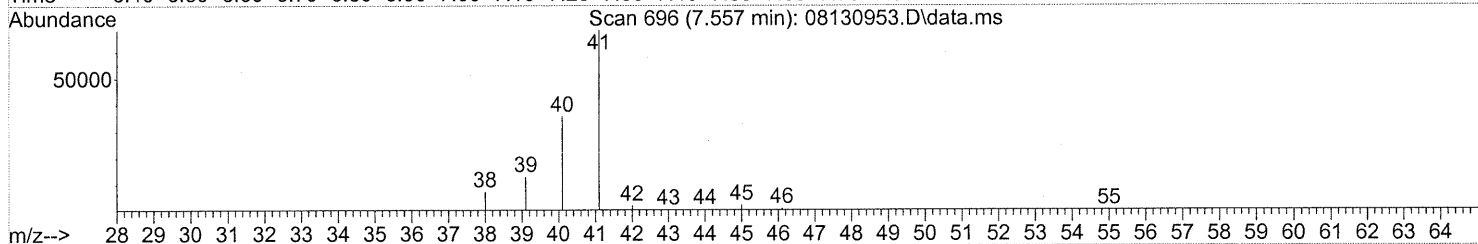
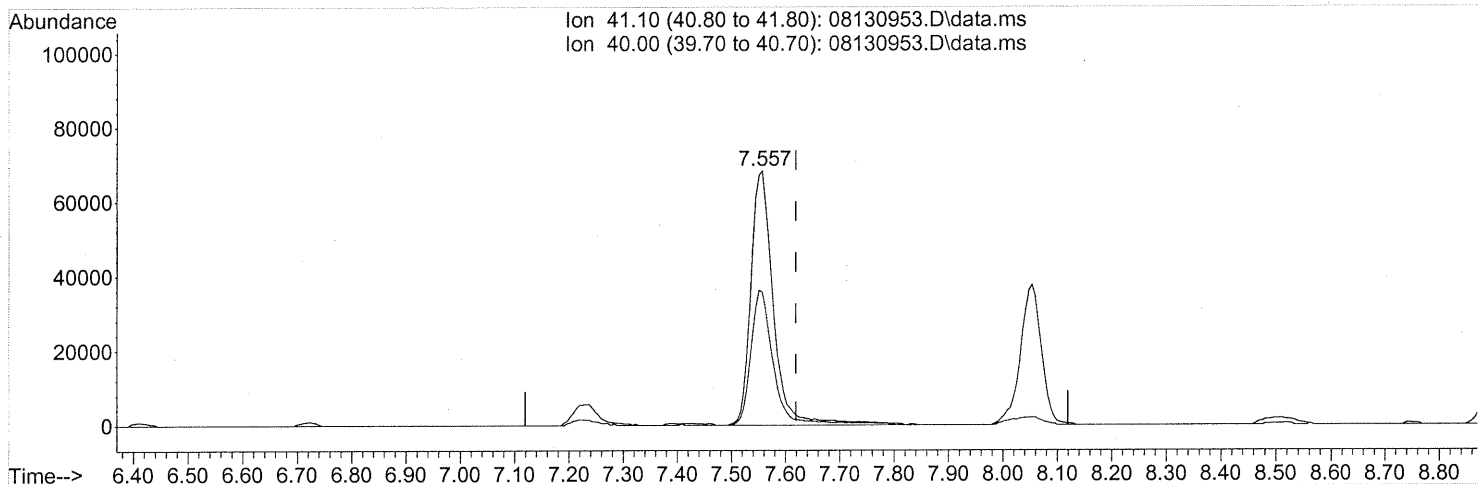
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	5.41#
0.00	0.00	0.00
0.00	0.00	0.00

SP -> TIC
EM 8/17/09
8/18/09

Quantitation Report (Qedit)

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TIC: 08130953.D\data.ms

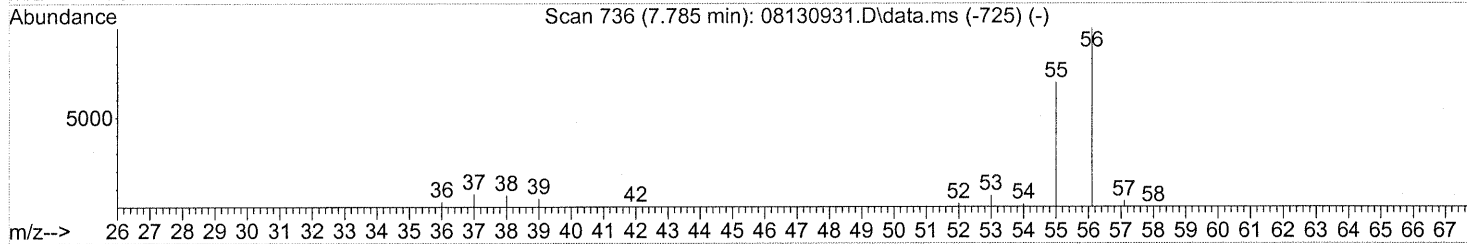
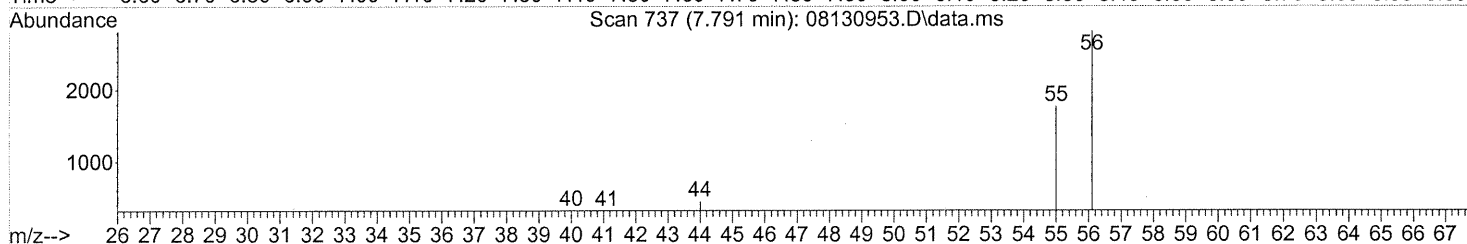
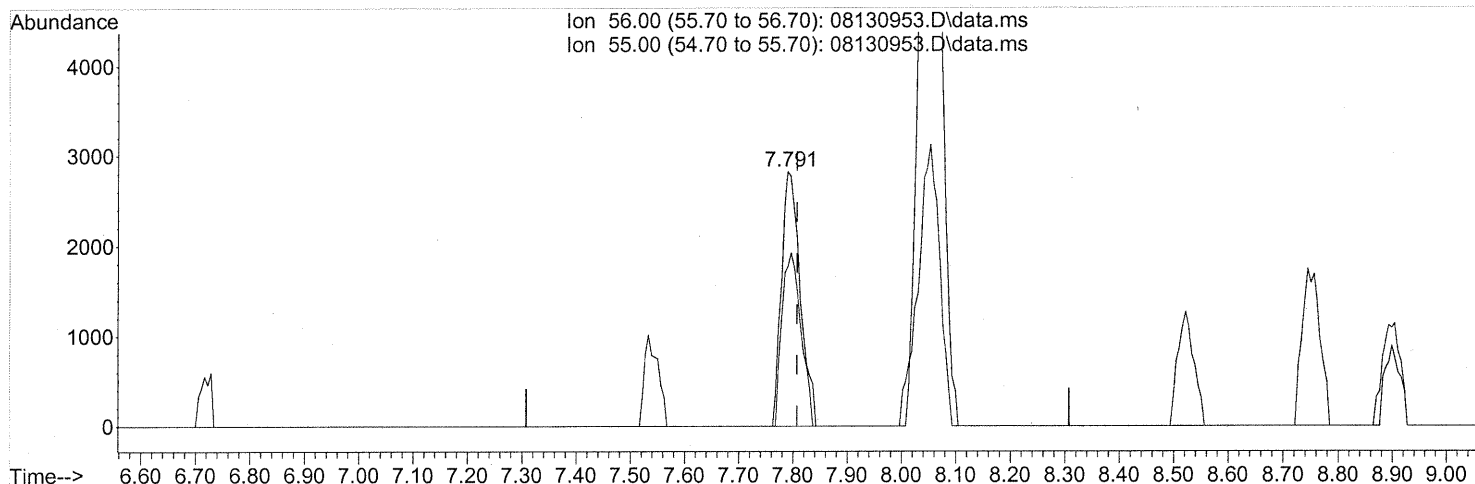
(11) Acetonitrile (T)
 7.557min (-0.063) 4.10ng
 response 197656

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.791min (-0.017) 0.53ng

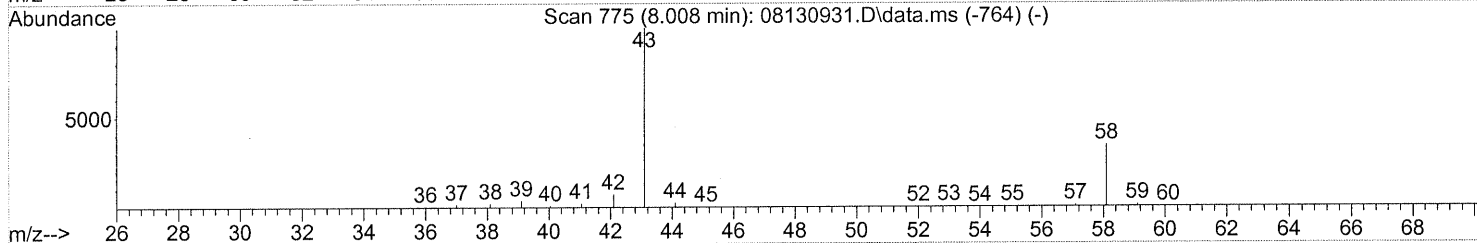
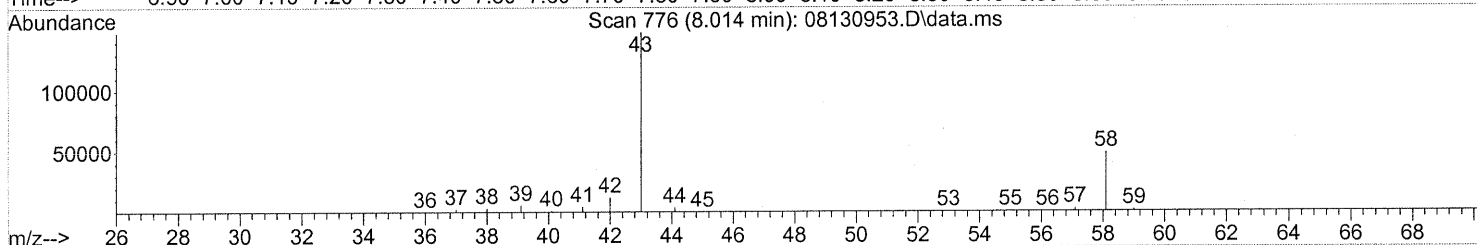
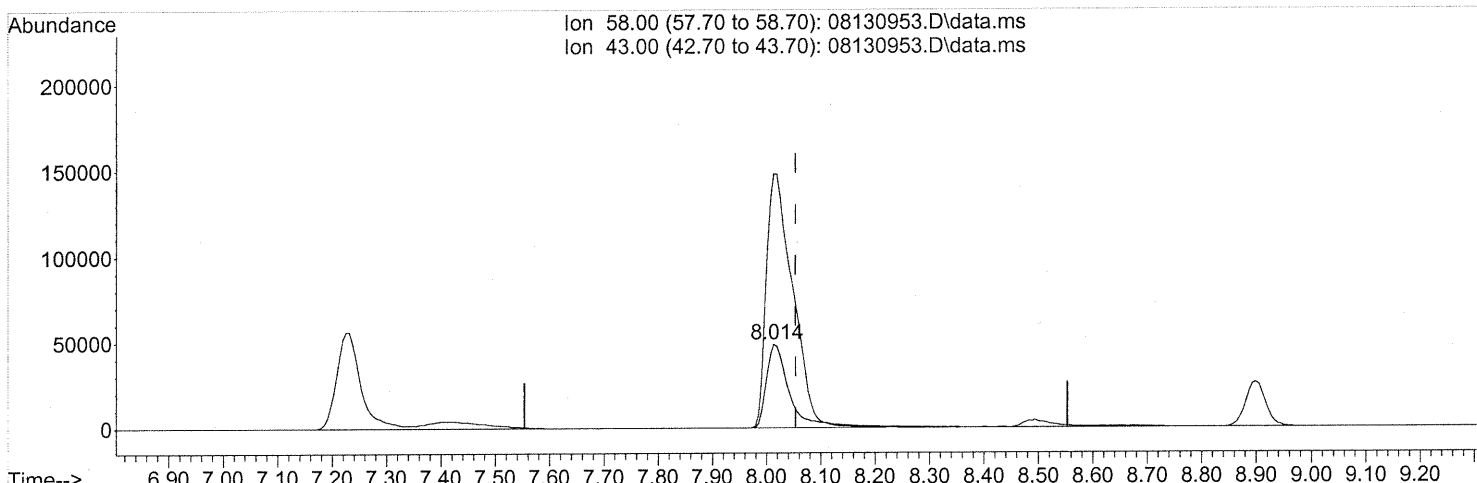
response 6793

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	68.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

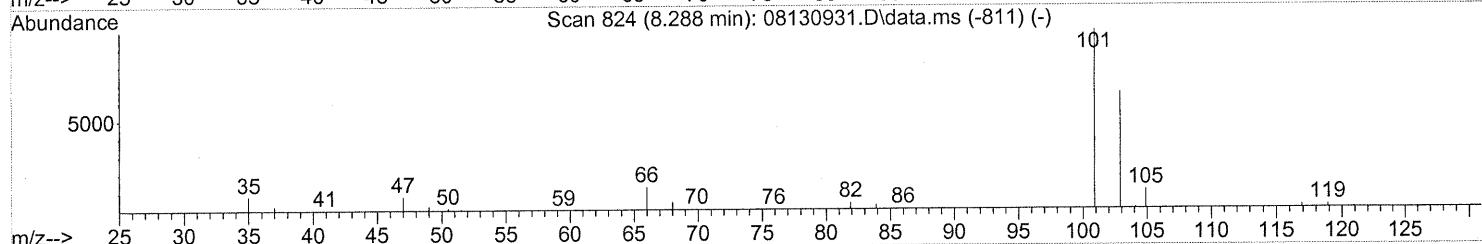
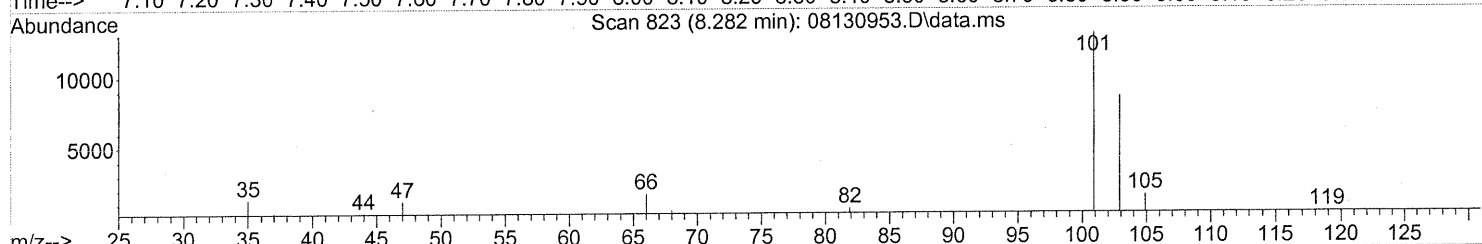
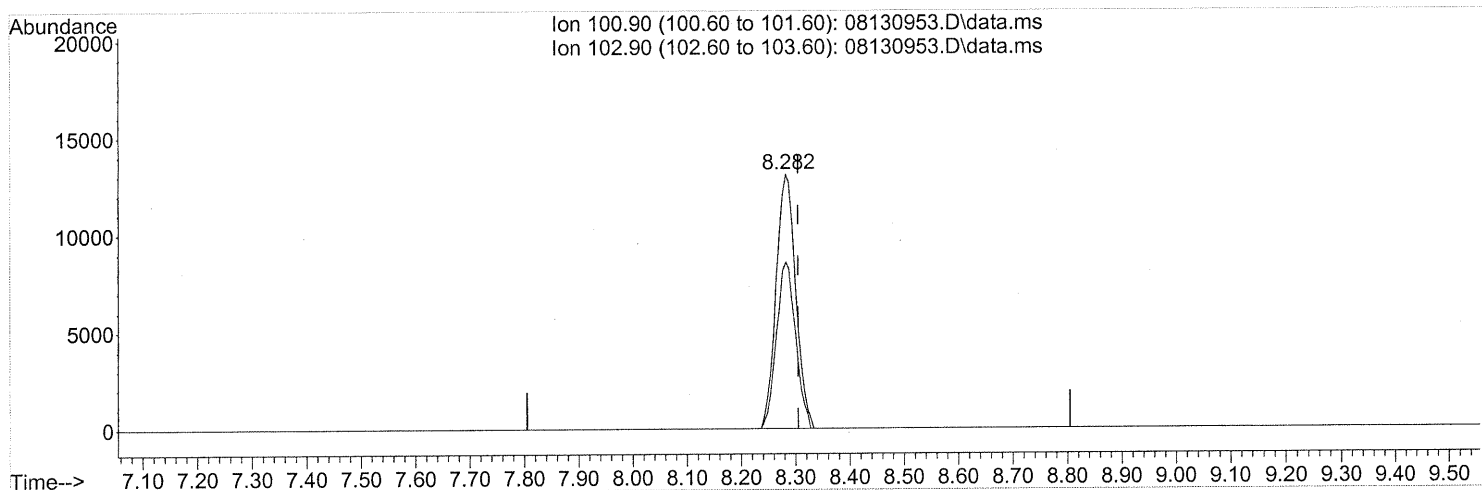
(13) Acetone (T)
 8.014min (-0.040) 7.00ng
 response 140606

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	360.55#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

(14) Trichlorofluoromethane (T)

8.282min (-0.023) 0.86ng

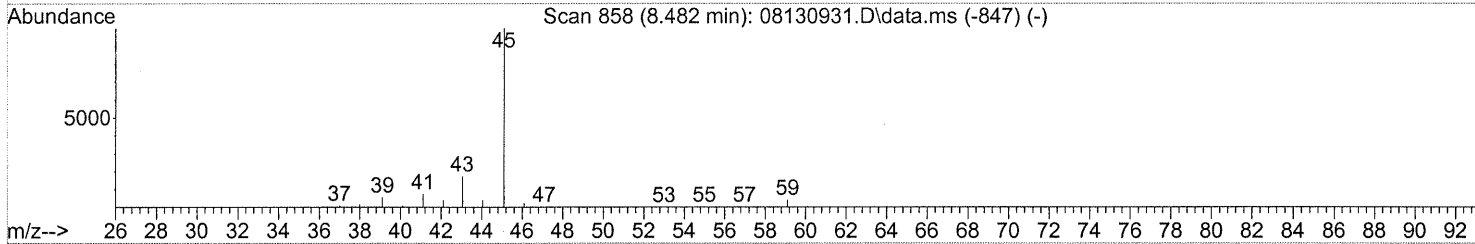
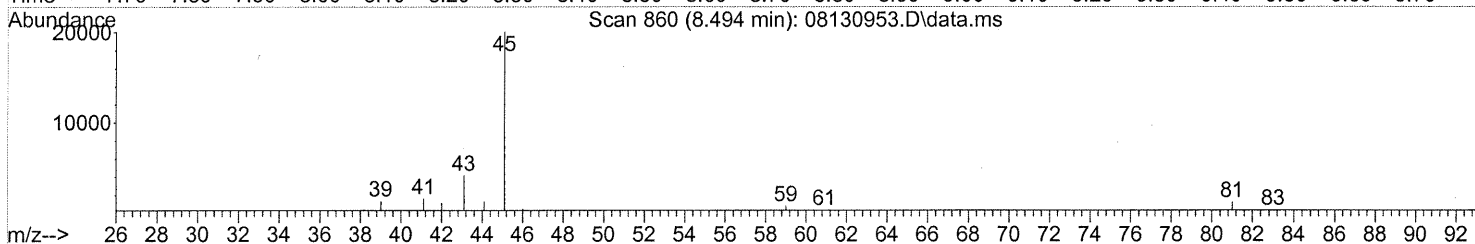
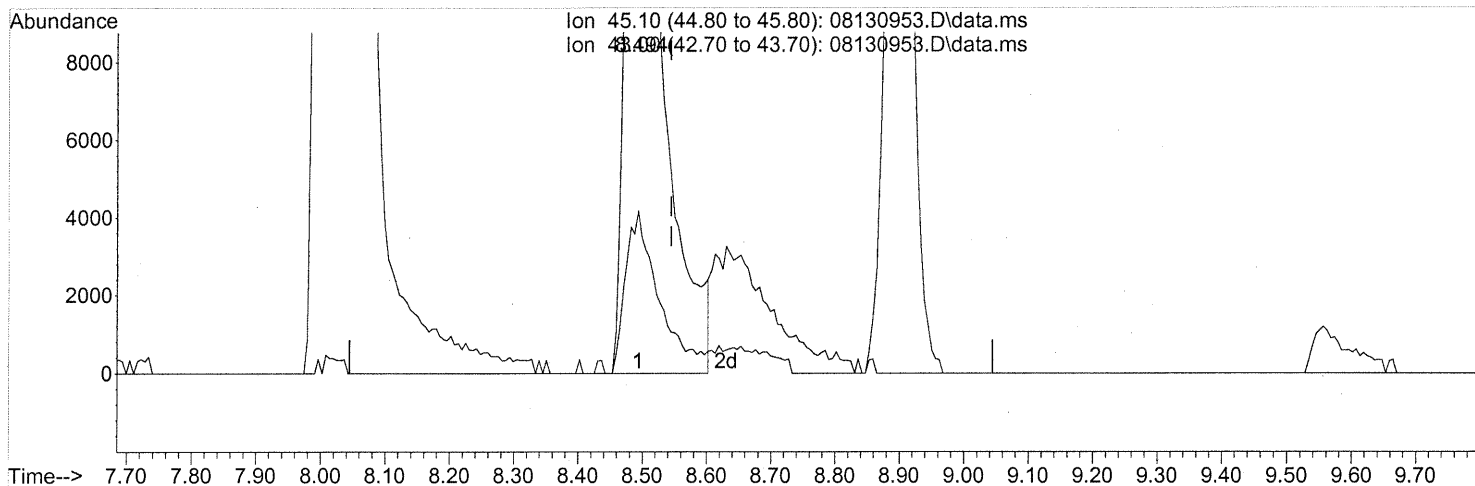
response 32867

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	63.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 1.35ng

response 74508

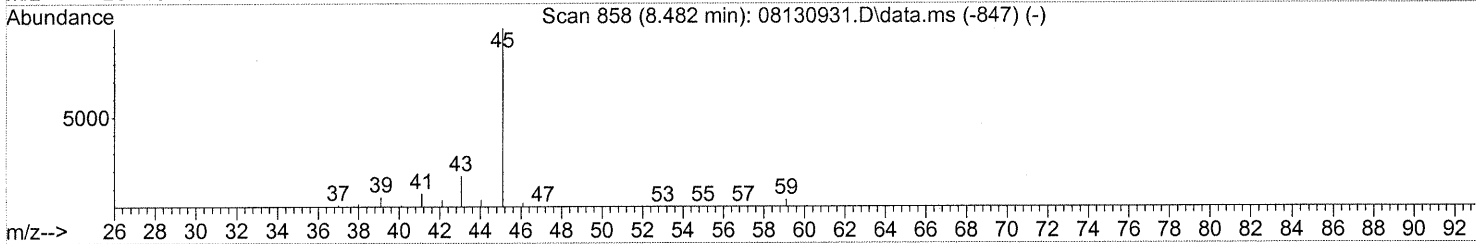
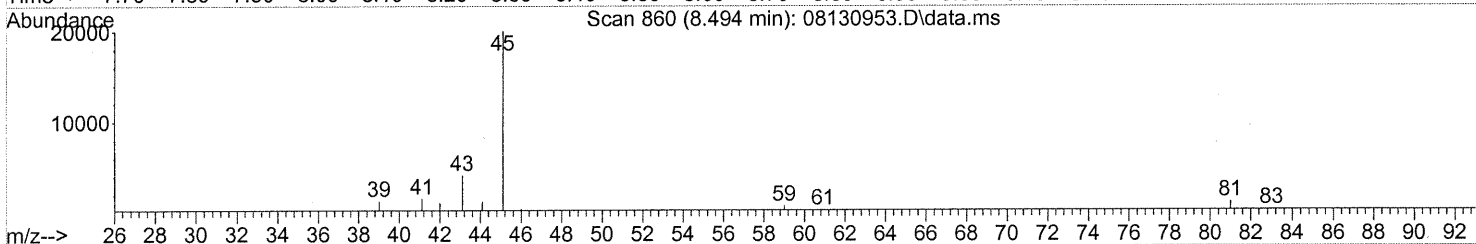
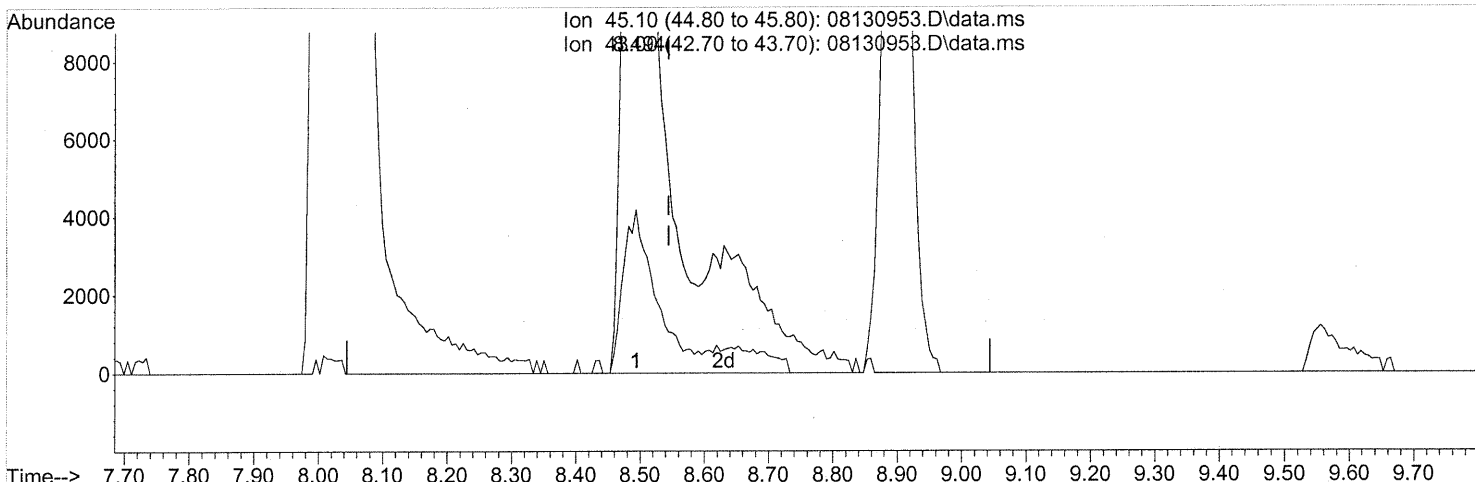
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	25.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.494min (-0.051) 1.72ng m

response 94753

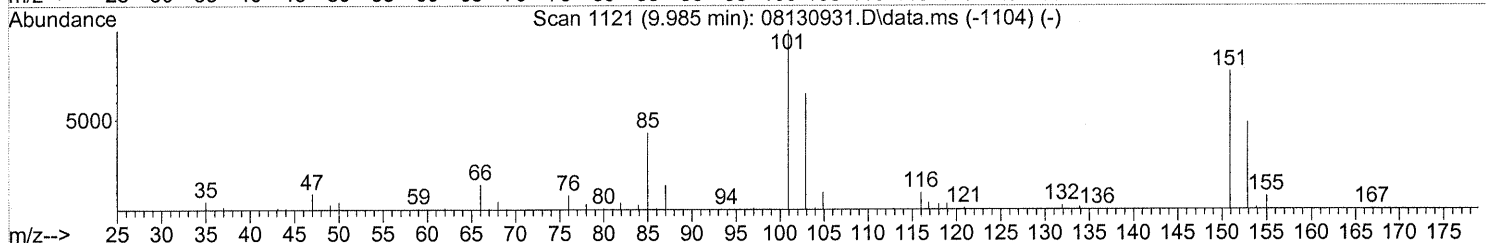
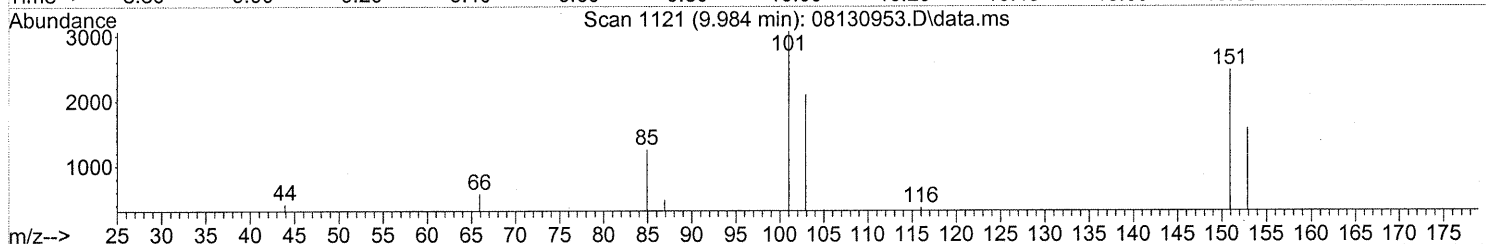
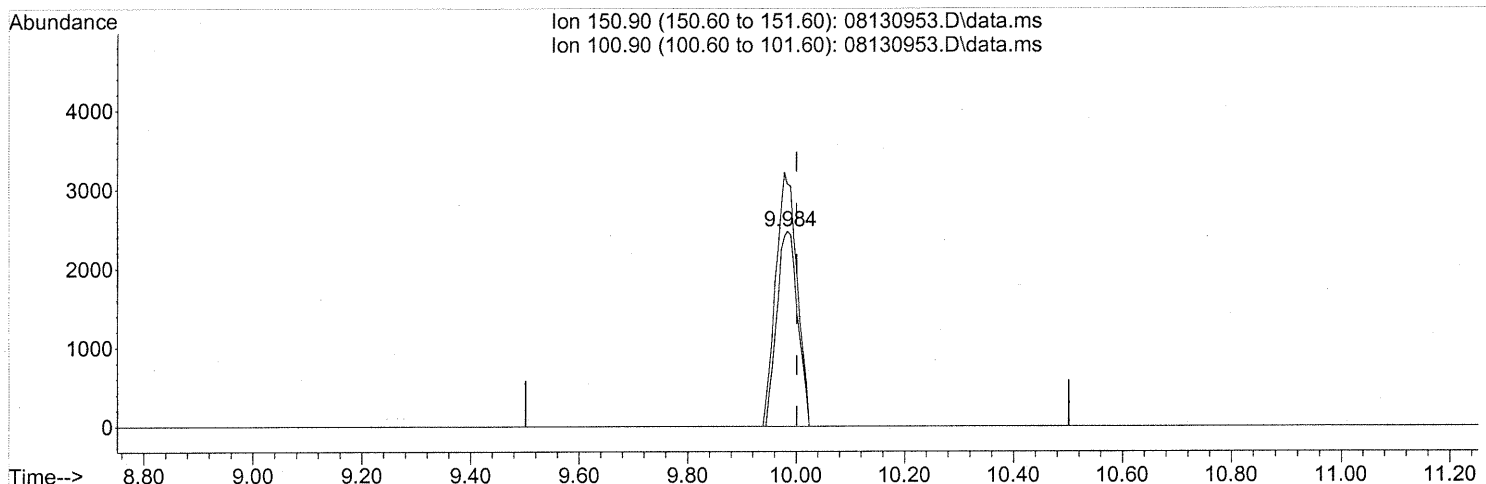
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	20.29
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/17/09
m 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.984min (-0.017) 0.38ng

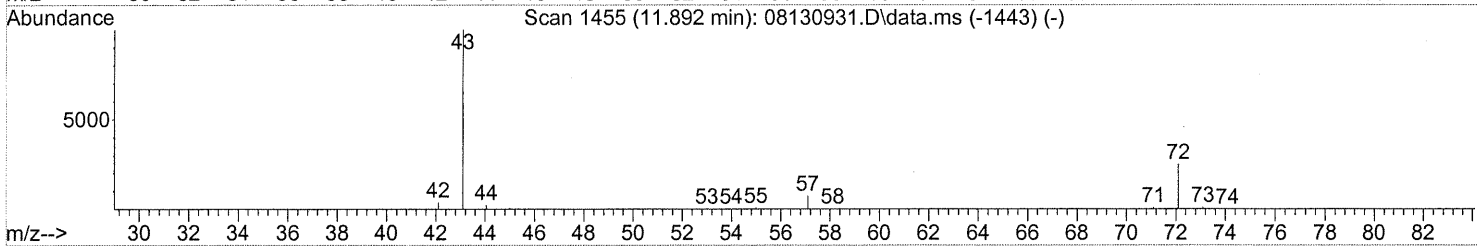
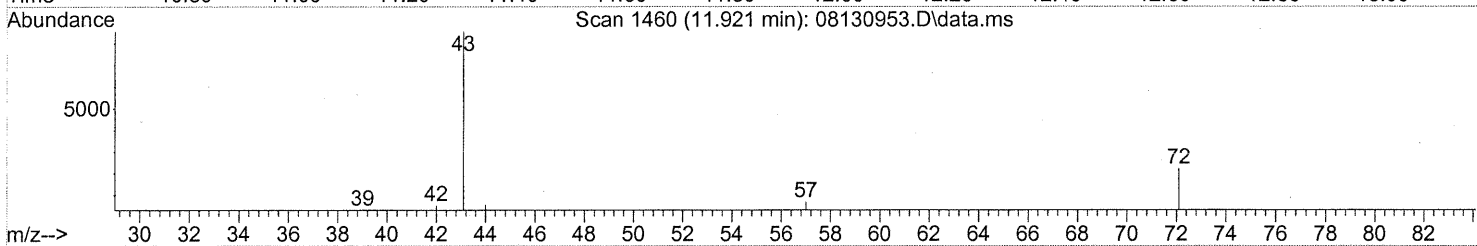
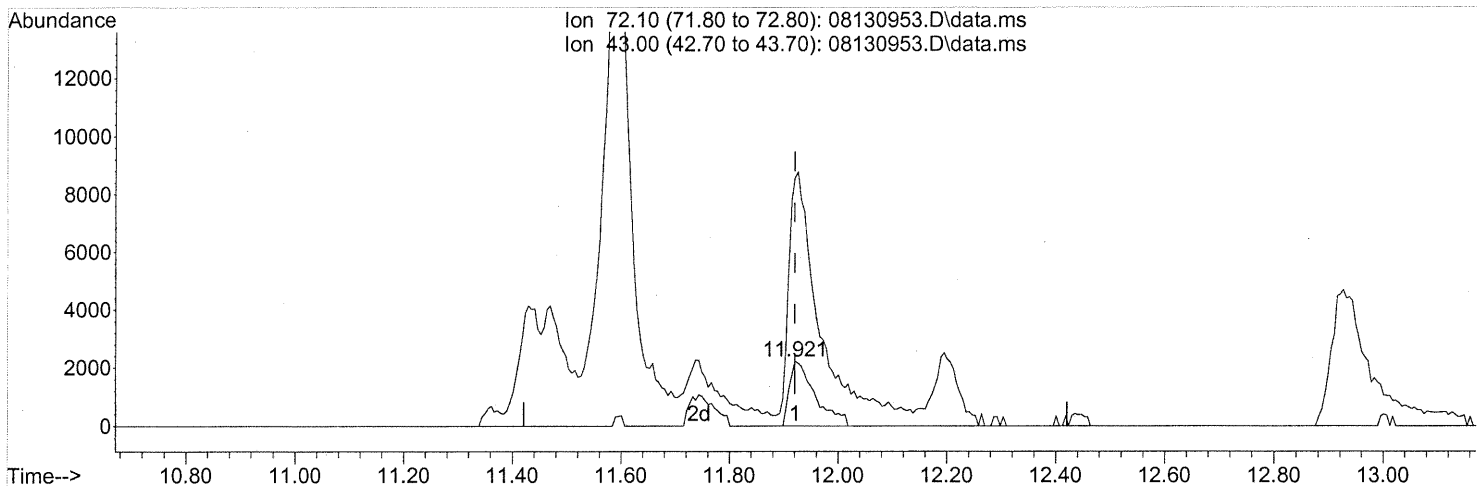
response 6577

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	132.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



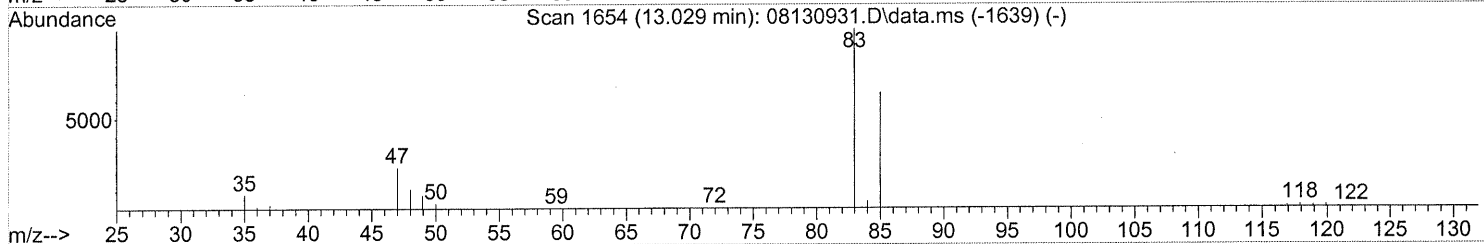
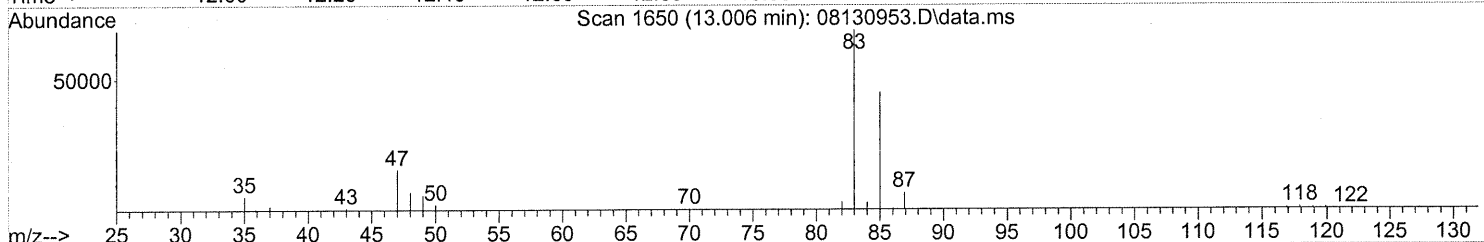
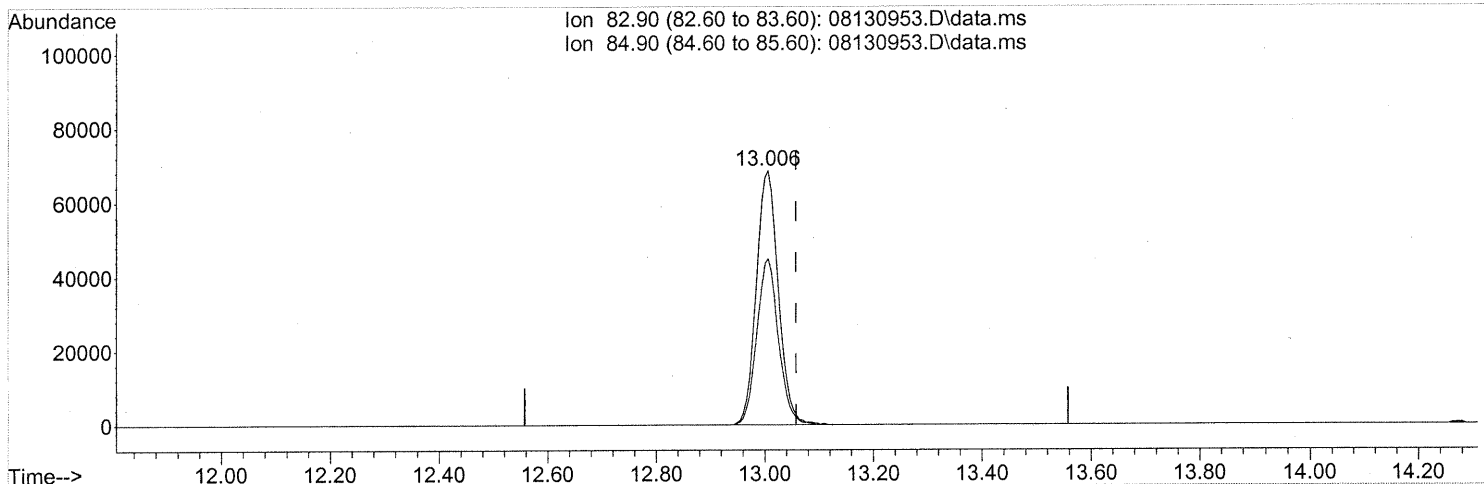
(27) 2-Butanone (MEK) (T)
 11.921min (-0.000) 0.52ng
 response 7261

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	455.03#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130953.D
Acq On : 14 Aug 2009 21:53
Operator : EM
Sample : P0902720-006 (1000ml)
Misc : Environmental H & E 100677
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130953.D\data.ms

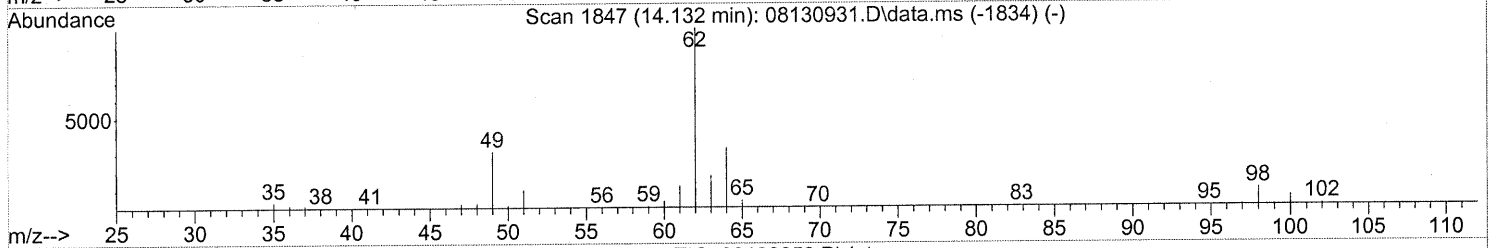
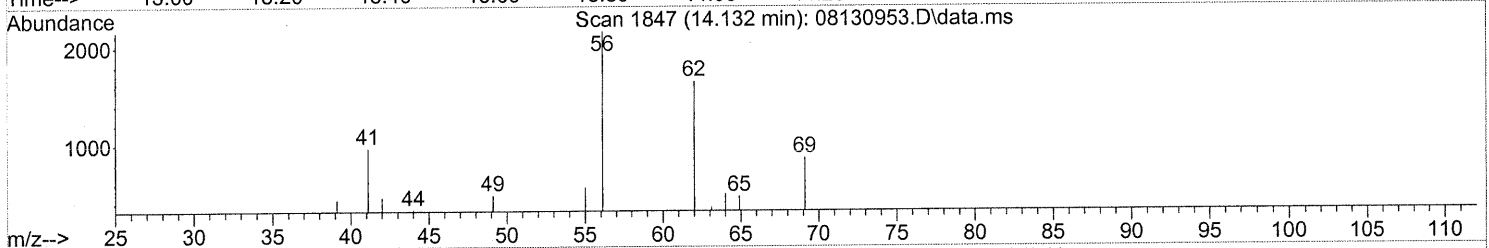
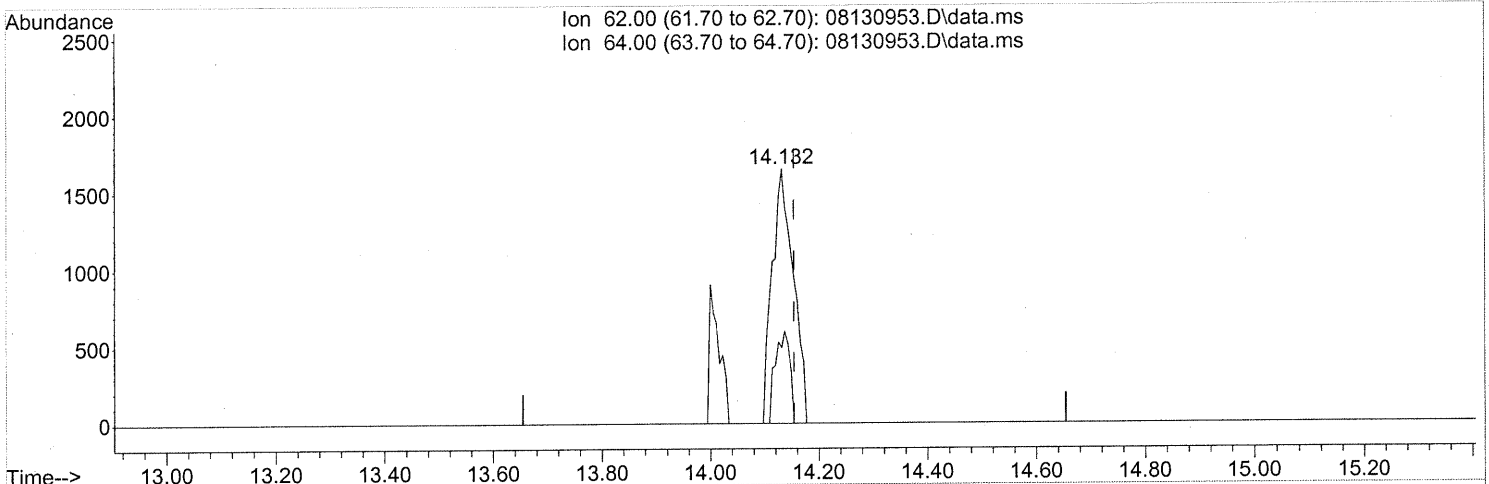
(32) Chloroform (T)
13.006min (-0.051) 5.20ng
response 192539

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.16ng

response 4445

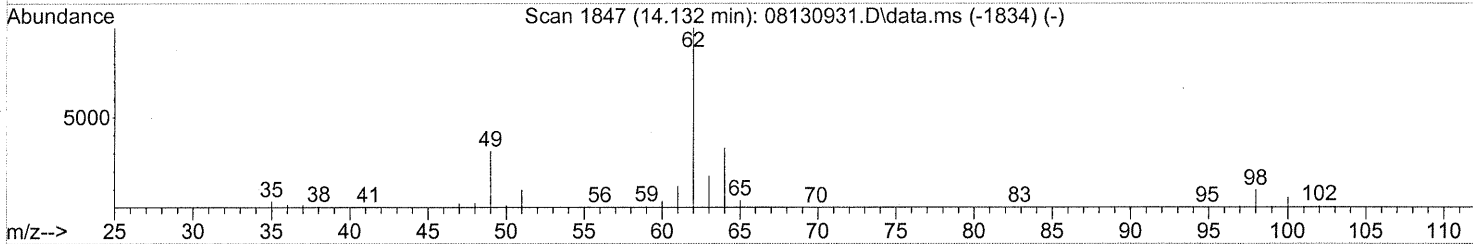
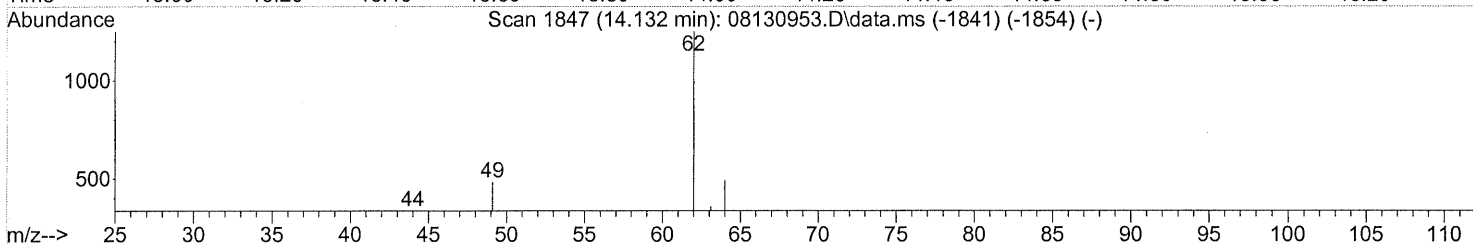
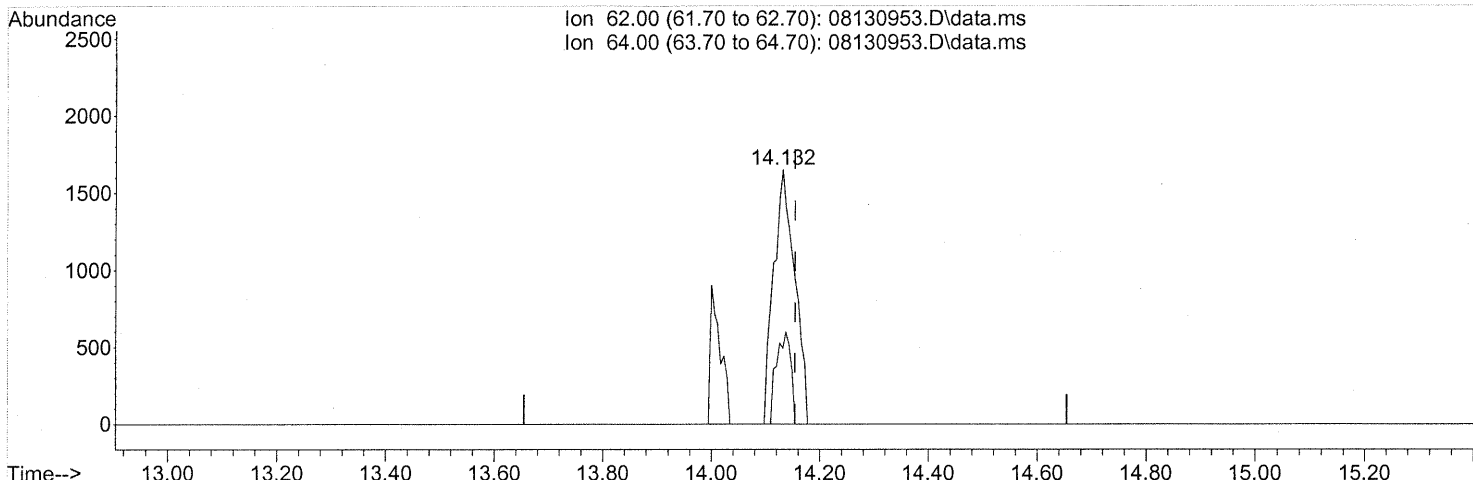
Ion	Exp%	Act%
62.00	100	100
64.00	32.70	24.66
0.00	0.00	0.00
0.00	0.00	0.00

Before subtraction

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

14.132min (-0.023) 0.16ng

response 4445

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	24.66
0.00	0.00	0.00
0.00	0.00	0.00

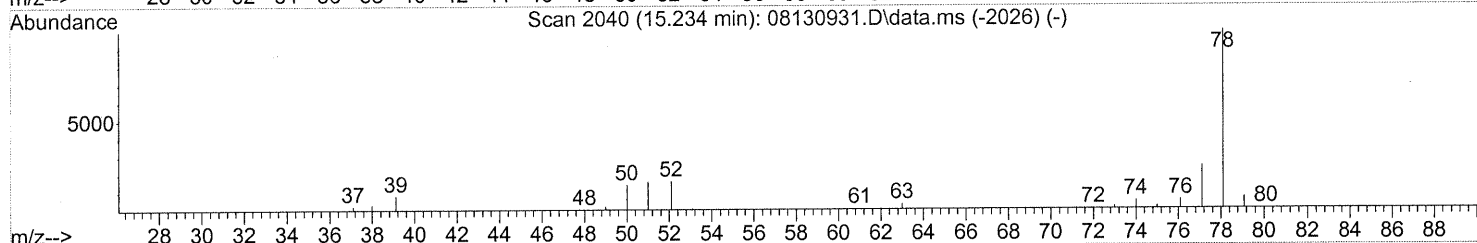
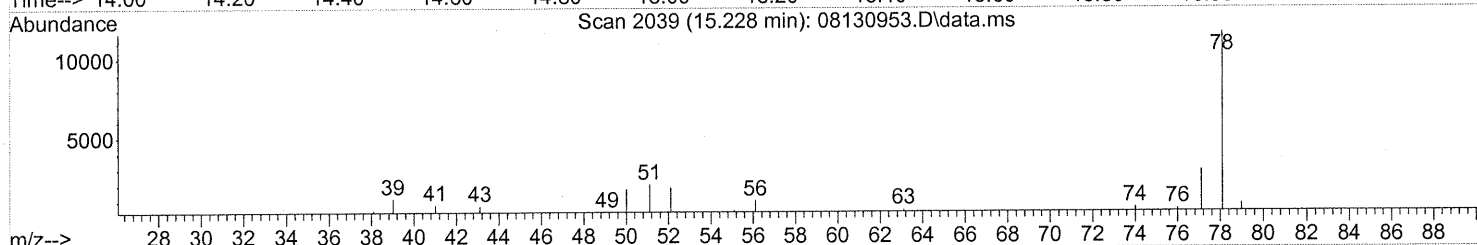
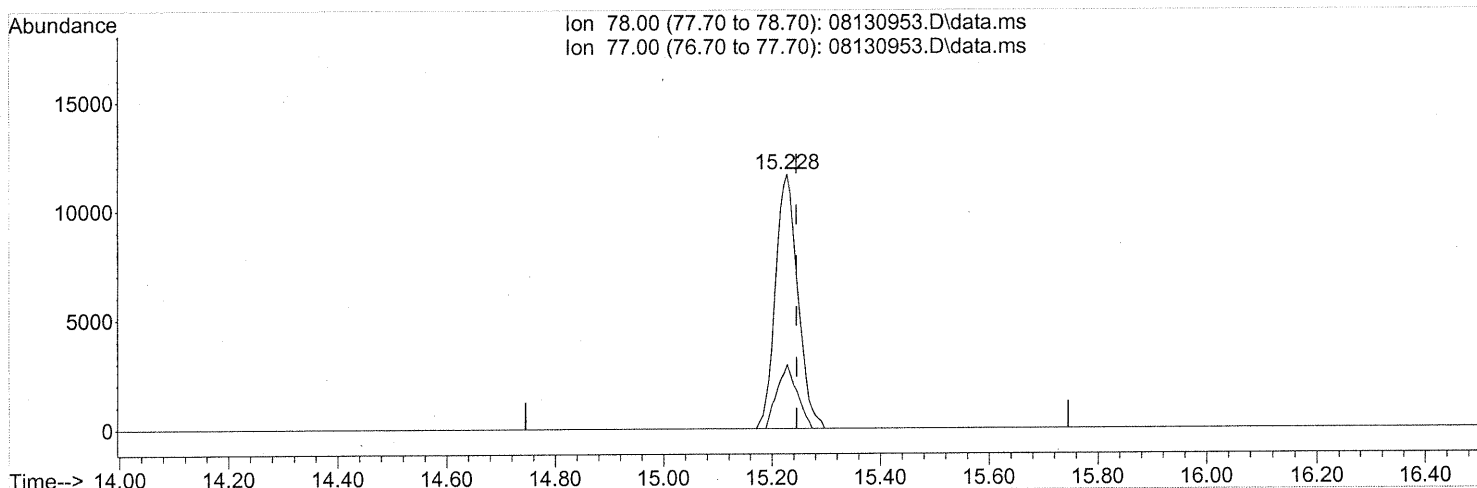
After subtraction

em 8/17/09
WT 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130953.D
Acq On : 14 Aug 2009 21:53
Operator : EM
Sample : P0902720-006 (1000ml)
Misc : Environmental H & E 100677
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130953.D\data.ms

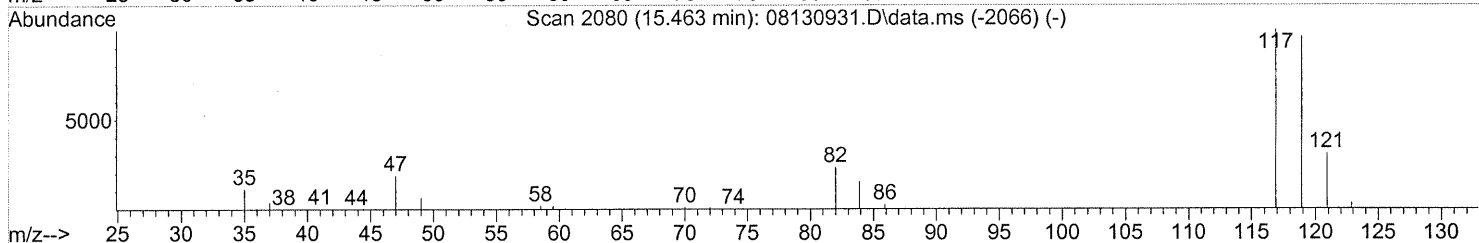
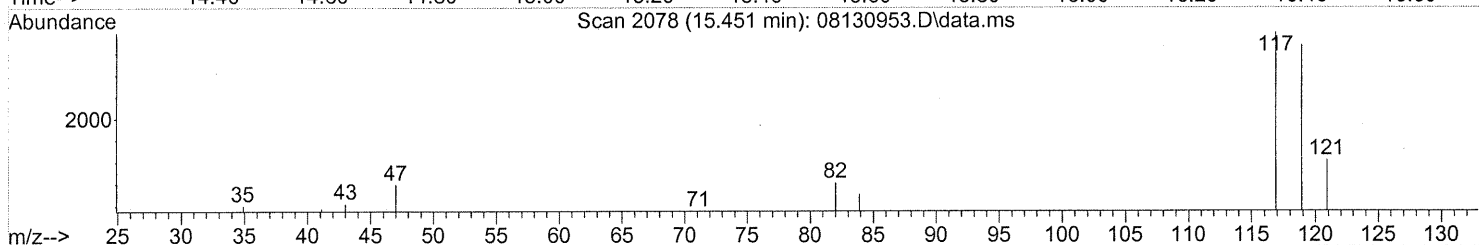
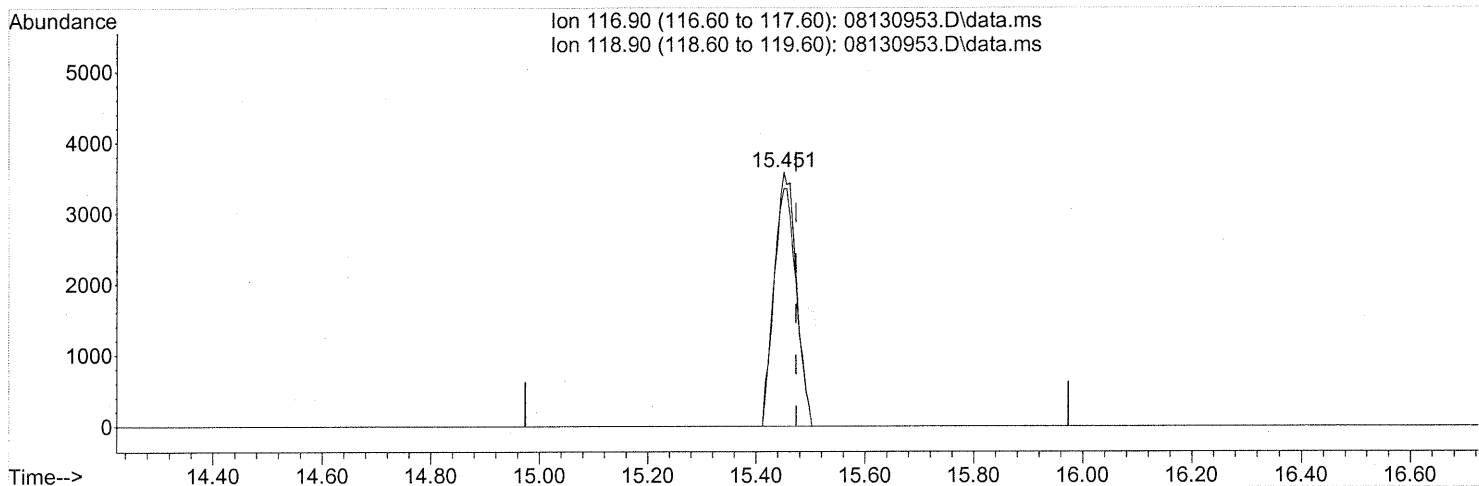
(41) Benzene (T)
15.228min (-0.017) 0.33ng
response 33102

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	22.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.36ng

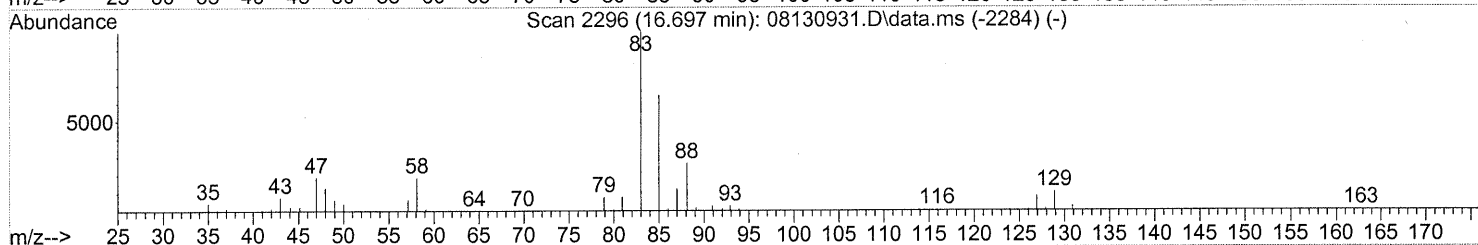
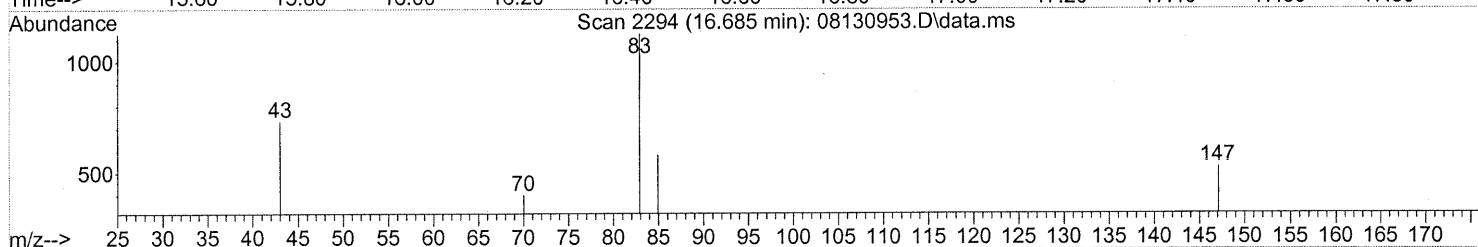
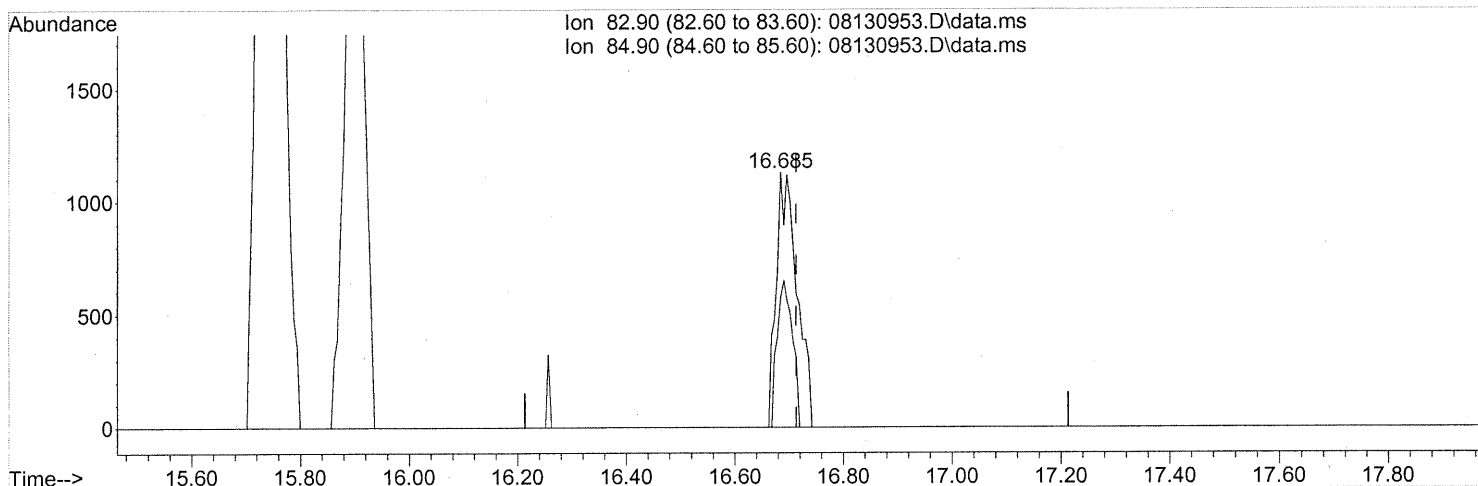
response 10039

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	95.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

(46) Bromodichloromethane (T)

16.685min (-0.029) 0.10ng

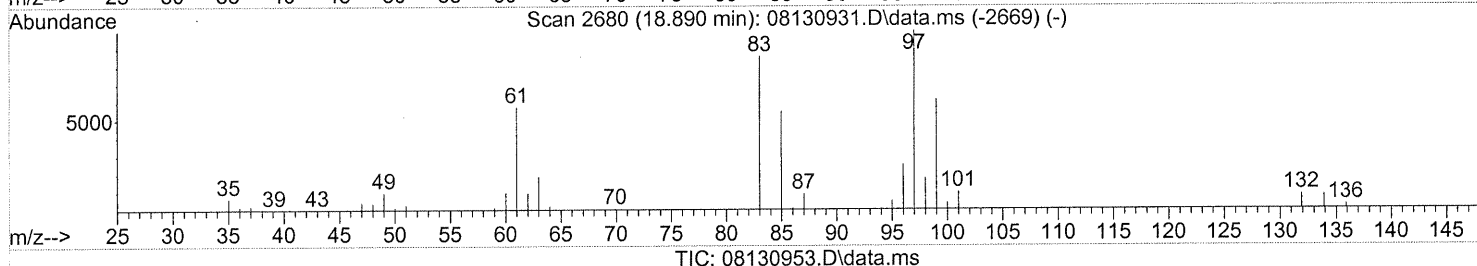
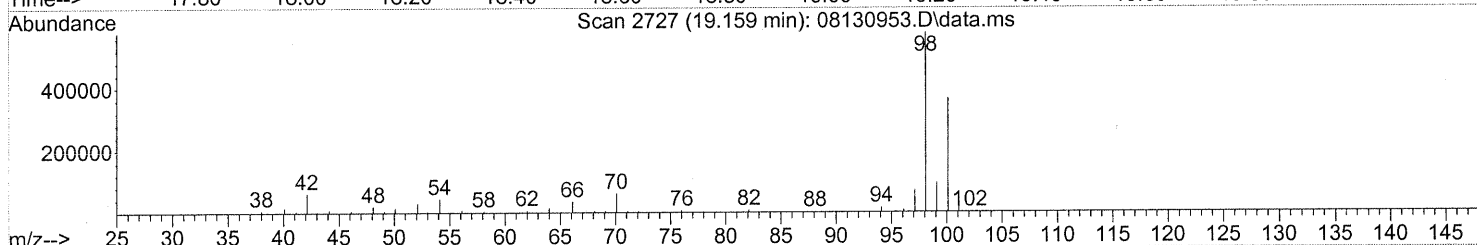
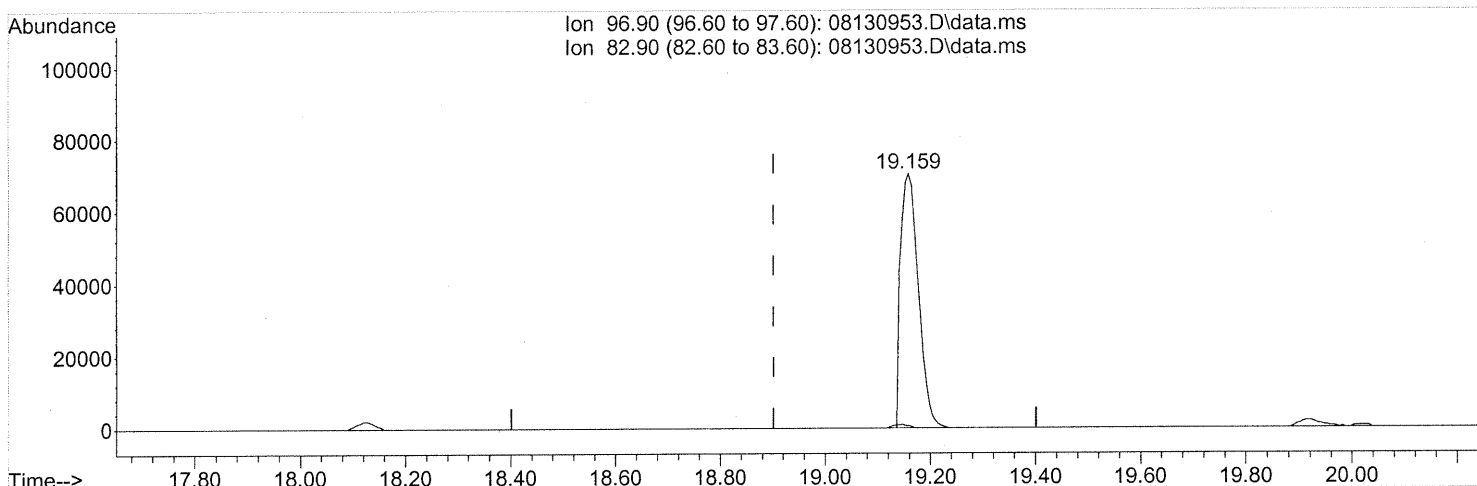
response 2999

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	42.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 7.76ng

response 164708

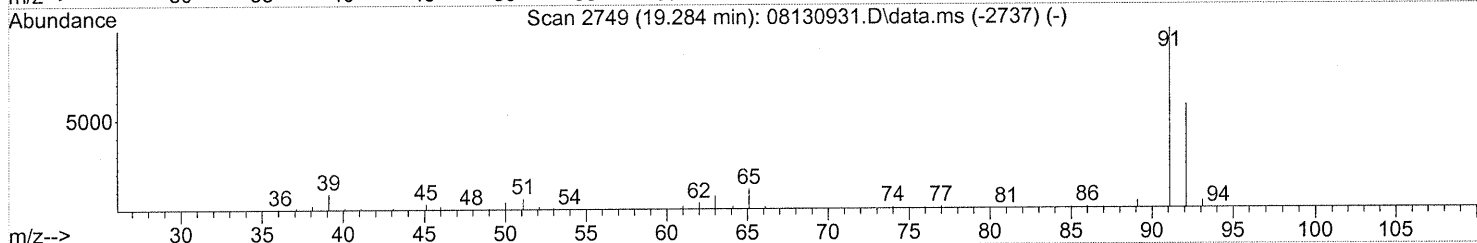
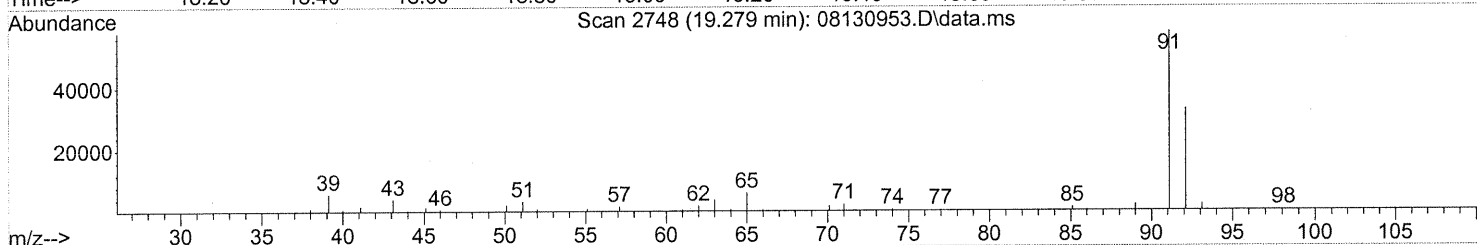
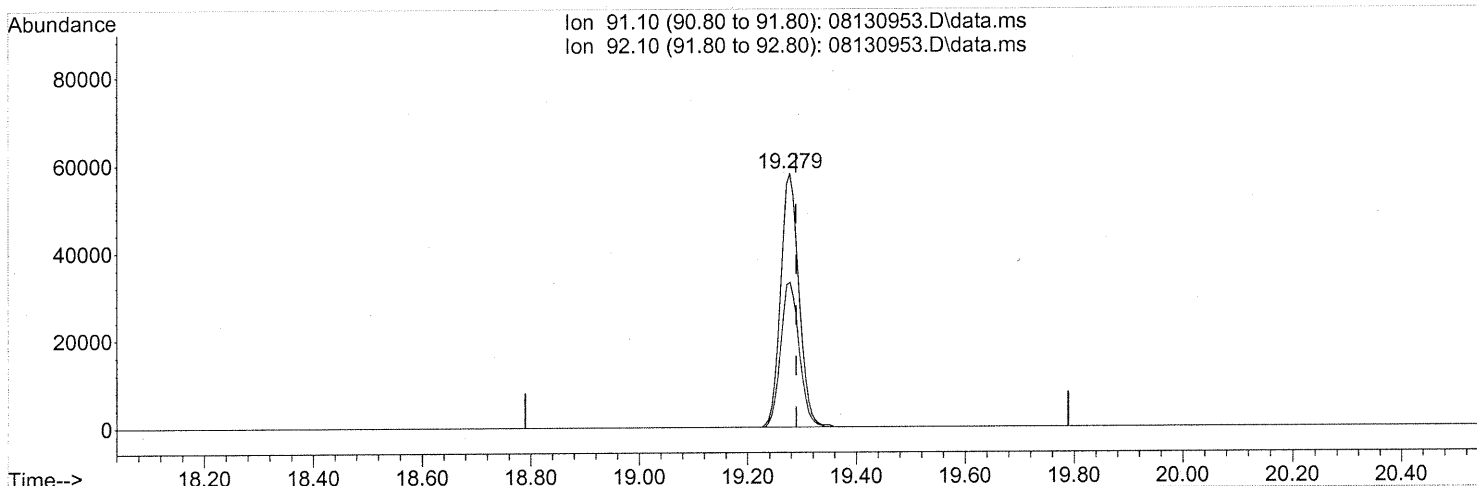
Ion	Exp%	Act%
96.90	100	100
82.90	85.30	1.03#
0.00	0.00	0.00
0.00	0.00	0.00

FP Em 8/17/09
LM 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130953.D
Acq On : 14 Aug 2009 21:53
Operator : EM
Sample : P0902720-006 (1000ml)
Misc : Environmental H & E 100677
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130953.D\data.ms

(58) Toluene (T)

19.279min (-0.011) 1.31ng

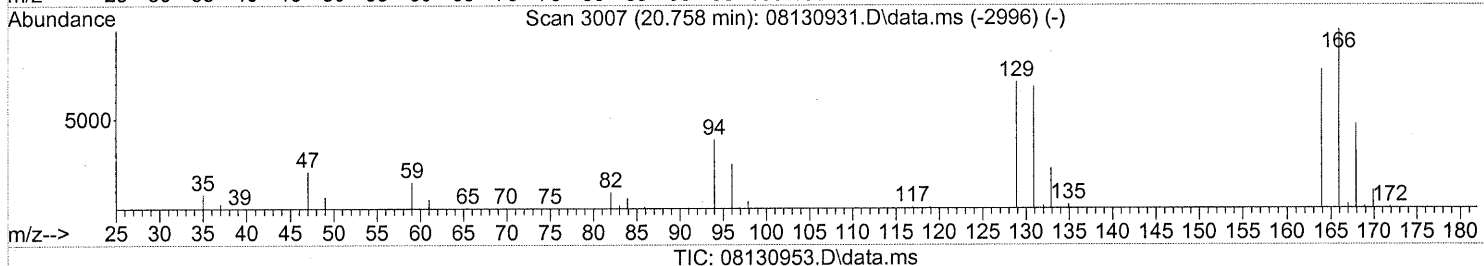
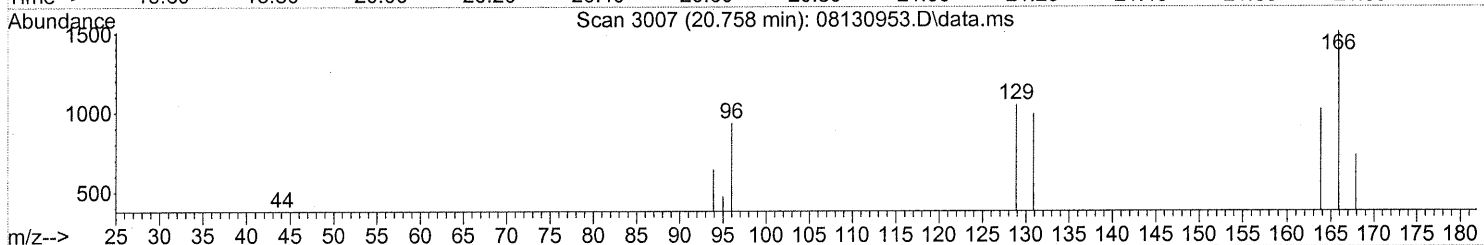
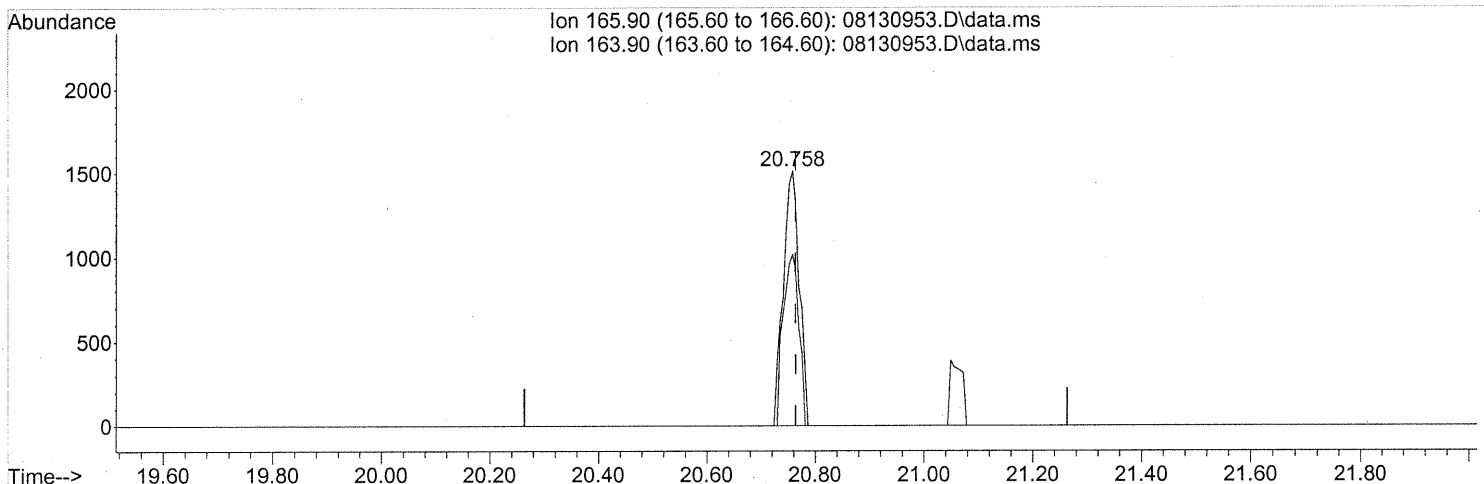
response 134779

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.758min (-0.006) 0.12ng

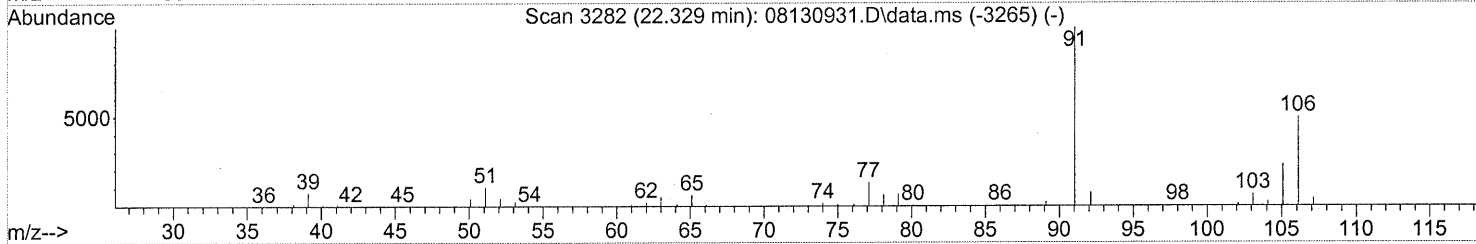
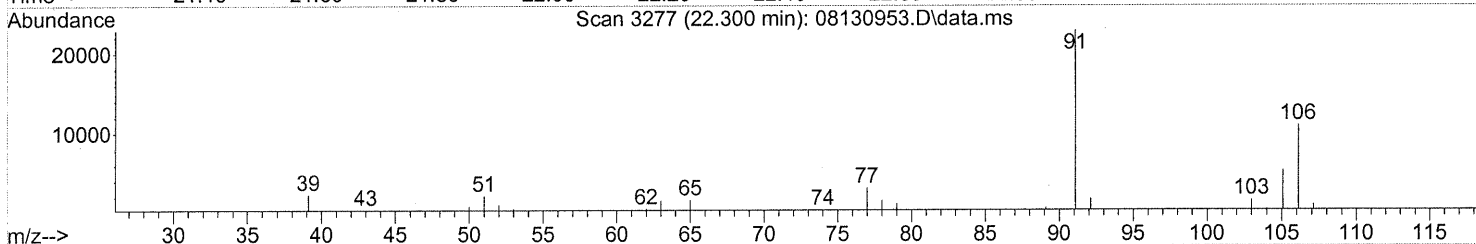
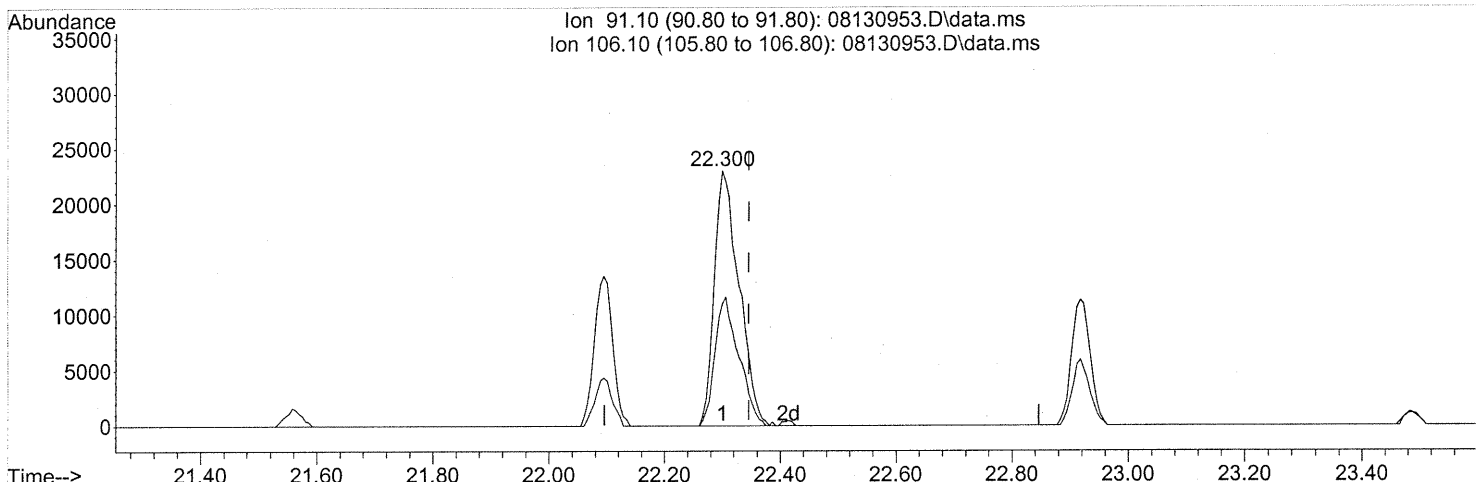
response 3094

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	65.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



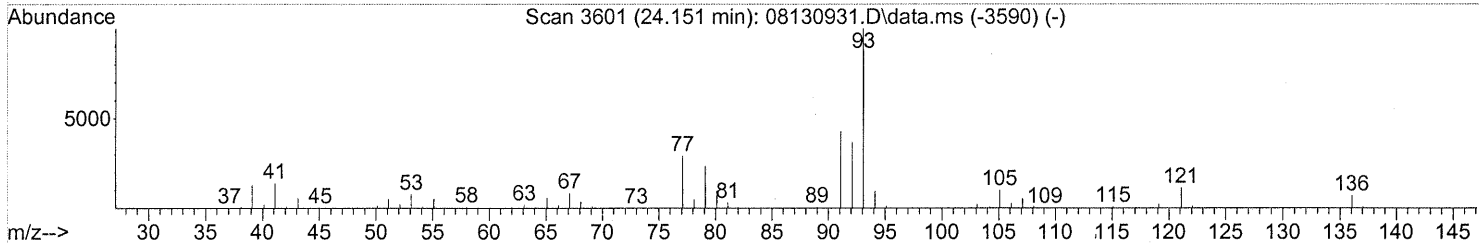
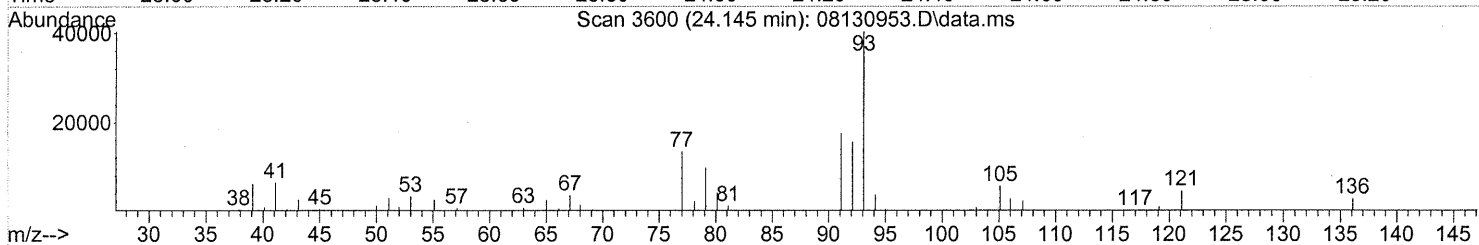
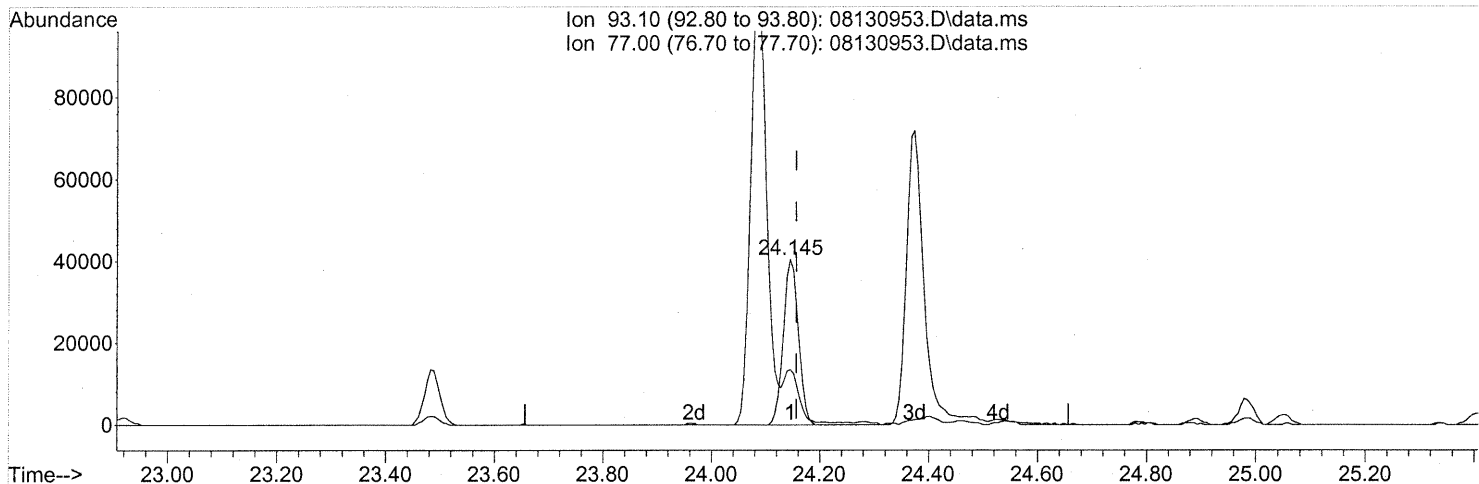
(67) m- & p-Xylenes (T)
 22.300min (-0.046) 0.78ng
 response 68179

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	48.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

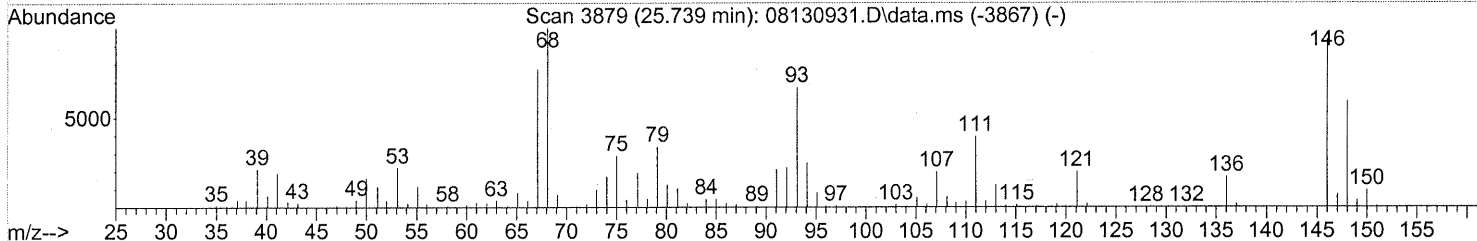
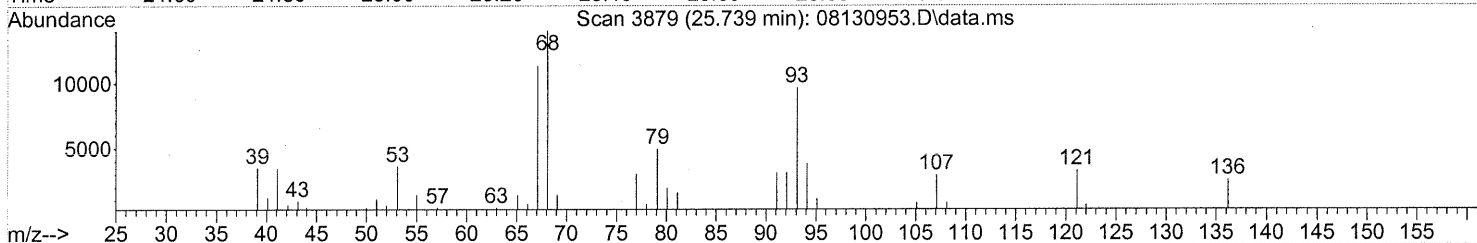
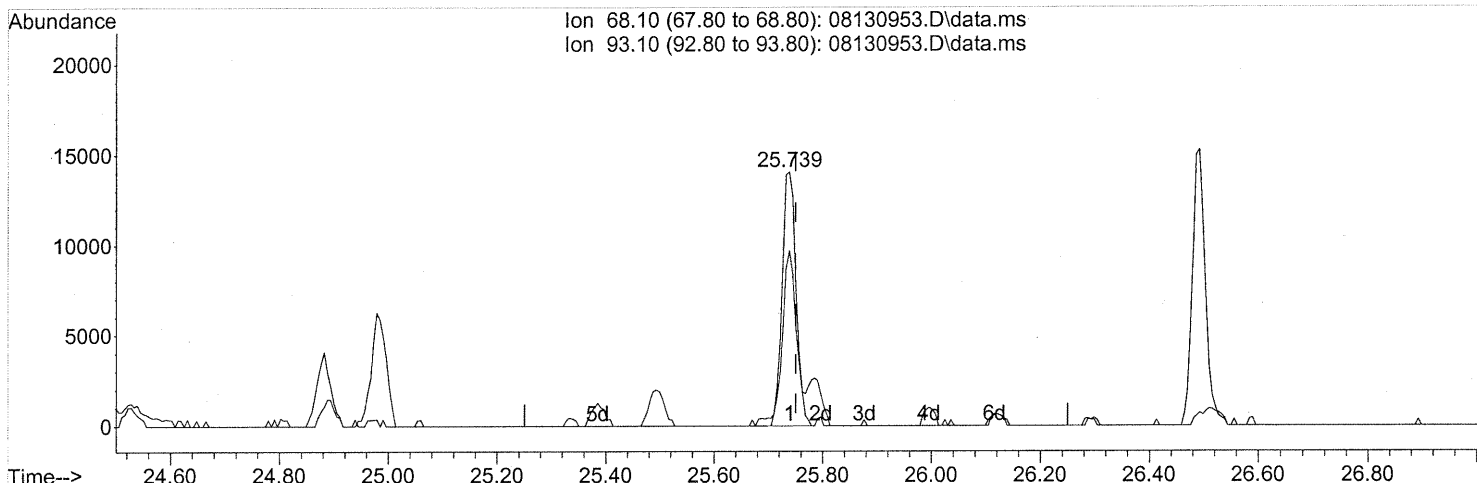
(75) alpha-Pinene (T)
 24.145min (-0.011) 1.37ng
 response 77575

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	36.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130953.D
 Acq On : 14 Aug 2009 21:53
 Operator : EM
 Sample : P0902720-006 (1000ml)
 Misc : Environmental H & E 100677
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 17 08:26:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130953.D\data.ms

(91) d-Limonene (T)
 25.739min (-0.011) 0.64ng
 response 24841

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	72.54
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, Incorporated

Client Sample ID: 100678

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-007

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01156

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	16	0.83	9.1	0.48	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.4	0.83	0.49	0.17	
74-87-3	Chloromethane	0.75	0.17	0.36	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	ND	0.12	
75-01-4	Vinyl Chloride	ND	0.17	ND	0.065	
106-99-0	1,3-Butadiene	ND	0.17	ND	0.075	
74-83-9	Bromomethane	0.17	0.17	0.045	0.043	
75-00-3	Chloroethane	ND	0.17	ND	0.063	
64-17-5	Ethanol	2,900	8.3	1,500	4.4	D
75-05-8	Acetonitrile	170	0.83	100	0.49	D
107-02-8	Acrolein	2.9	0.83	1.2	0.36	
67-64-1	Acetone	72	8.3	30	3.5	
75-69-4	Trichlorofluoromethane	1.6	0.17	0.29	0.029	
67-63-0	2-Propanol (Isopropyl Alcohol)	99	0.83	40	0.34	
107-13-1	Acrylonitrile	ND	0.83	ND	0.38	
75-35-4	1,1-Dichloroethene	ND	0.17	ND	0.042	
75-09-2	Methylene Chloride	3.0	0.83	0.87	0.24	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	ND	0.053	
76-13-1	Trichlorotrifluoroethane	0.57	0.17	0.074	0.022	
75-15-0	Carbon Disulfide	ND	0.83	ND	0.27	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	ND	0.042	
75-34-3	1,1-Dichloroethane	ND	0.17	ND	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	ND	0.046	
108-05-4	Vinyl Acetate	ND	8.3	ND	2.3	
78-93-3	2-Butanone (MEK)	3.1	0.83	1.0	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.

D = The reported result is from a dilution.

Verified By: _____

Date: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100678
Client Project ID: 16512

CAS Project ID: P0902720
CAS Sample ID: P0902720-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01156

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	ND	0.042	
141-78-6	Ethyl Acetate	5.2	1.7	1.4	0.46	
110-54-3	n-Hexane	8.1	0.83	2.3	0.23	
67-66-3	Chloroform	2.9	0.17	0.60	0.034	
109-99-9	Tetrahydrofuran (THF)	ND	0.83	ND	0.28	
107-06-2	1,2-Dichloroethane	7.8	0.17	1.9	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.17	ND	0.030	
71-43-2	Benzene	3.4	0.17	1.1	0.052	
56-23-5	Carbon Tetrachloride	0.86	0.17	0.14	0.026	
110-82-7	Cyclohexane	1.2	0.83	0.34	0.24	
78-87-5	1,2-Dichloropropane	ND	0.17	ND	0.036	
75-27-4	Bromodichloromethane	ND	0.17	ND	0.025	
79-01-6	Trichloroethene	ND	0.17	ND	0.031	
123-91-1	1,4-Dioxane	ND	0.83	ND	0.23	
80-62-6	Methyl Methacrylate	ND	1.7	ND	0.40	
142-82-5	n-Heptane	3.6	0.83	0.88	0.20	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	ND	0.18	
108-10-1	4-Methyl-2-pentanone	2.2	0.83	0.55	0.20	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	ND	0.18	
79-00-5	1,1,2-Trichloroethane	ND	0.17	ND	0.030	
108-88-3	Toluene	27	0.83	7.1	0.22	
591-78-6	2-Hexanone	0.89	0.83	0.22	0.20	
124-48-1	Dibromochloromethane	0.35	0.17	0.041	0.019	
106-93-4	1,2-Dibromoethane	ND	0.17	ND	0.021	
123-86-4	n-Butyl Acetate	2.2	0.83	0.47	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: 8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100678
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-007

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01156

Date Collected: 8/6/09
 Date Received: 8/7/09
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 1.00 Liter(s)
 0.10 Liter(s)

Initial Pressure (psig): -3.7 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.65

CAS #	Compound	Result μg/m ³	MRL μg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.6	0.83	0.34	0.18	
127-18-4	Tetrachloroethene	1.1	0.17	0.16	0.024	
108-90-7	Chlorobenzene	ND	0.17	ND	0.036	
100-41-4	Ethylbenzene	5.3	0.83	1.2	0.19	
179601-23-1	m,p-Xylenes	17	0.83	3.8	0.19	
75-25-2	Bromoform	1.8	0.83	0.17	0.080	
100-42-5	Styrene	1.4	0.83	0.33	0.19	
95-47-6	o-Xylene	6.4	0.83	1.5	0.19	
111-84-2	n-Nonane	1.1	0.83	0.21	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	ND	0.024	
98-82-8	Cumene	ND	0.83	ND	0.17	
80-56-8	alpha-Pinene	18	0.83	3.2	0.15	
103-65-1	n-Propylbenzene	1.5	0.83	0.31	0.17	
622-96-8	4-Ethyltoluene	2.6	0.83	0.52	0.17	
108-67-8	1,3,5-Trimethylbenzene	2.6	0.83	0.54	0.17	
95-63-6	1,2,4-Trimethylbenzene	9.2	0.83	1.9	0.17	
100-44-7	Benzyl Chloride	ND	0.17	ND	0.032	
541-73-1	1,3-Dichlorobenzene	ND	0.17	ND	0.027	
106-46-7	1,4-Dichlorobenzene	ND	0.17	ND	0.027	
95-50-1	1,2-Dichlorobenzene	ND	0.17	ND	0.027	
5989-27-5	d-Limonene	23	0.83	4.1	0.15	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	ND	0.085	
120-82-1	1,2,4-Trichlorobenzene	ND	0.83	ND	0.11	
91-20-3	Naphthalene	1.2	0.83	0.23	0.16	
87-68-3	Hexachlorobutadiene	ND	0.83	ND	0.077	

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: 8/24/09

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:18:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.81	130	353590	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1804050	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	860947	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.96	65	621113	24.843	ng	-0.03 ✓
Spiked Amount	25.000			Recovery =	99.36%	
57) Toluene-d8 (SS2)	19.15	98	2070297	25.295	ng	-0.01 ✓
Spiked Amount	25.000			Recovery =	101.16%	
73) Bromofluorobenzene (SS3)	23.49	174	584028	25.196	ng	0.00
Spiked Amount	25.000			Recovery =	100.80%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	294131	9.483	ng	95
3) Dichlorodifluoromethan...	5.01	85	64642	1.460	ng	99
4) Chloromethane	5.34	50	18776	0.455	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1290	0.055	ng #	43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.09	54	1245	N.D.		
8) Bromomethane	6.59	94	2233	0.105	ng	98
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.45	45	38317742	1969.416	ng See Dil	99
11) Acetonitrile	7.60	41	5491681	115.657	ng See Dil	99
12) Acrolein	7.79	56	21920	1.728	ng	95
13) Acetone	8.01	58	863701	43.623	ng #	1
14) Trichlorofluoromethane	8.29	101	37826	0.999	ng	98
15) 2-Propanol (Isopropanol)	8.55	45	3241901	59.790	ng	94
16) Acrylonitrile	8.84	53	764	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.51	59	30346	0.551	ng #	1
19) Methylene Chloride	9.53	84	44991	1.821	ng	87
20) 3-Chloro-1-propene (Al...	9.70	41	1771	0.053	ng #	34
21) Trichlorotrifluoroethane	9.98	151	5835	0.344	ng	95
22) Carbon Disulfide	9.93	76	40579	0.465	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.38	63	1455	N.D.		
25) Methyl tert-Butyl Ether	11.38	73	2216	N.D.		
26) Vinyl Acetate	11.53	86	5273	1.230	ng #	1
27) 2-Butanone (MEK)	11.91	72	25577	1.853	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.93	87	2196	0.112	ng #	1
30) Ethyl Acetate	12.92	61	28317	3.164	ng	95
31) n-Hexane	12.93	57	213635	4.896	ng	95

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:18:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	64889	1.777 ng		98
34) Tetrahydrofuran (THF)	13.62	72	6740	0.470 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.13	62	132029	4.725 ng		99
38) 1,1,1-Trichloroethane	14.53	97	110	N.D.		
39) Isopropyl Acetate	15.09	61	344	N.D.		
40) 1-Butanol	15.10	56	113064	4.836 ng		83
41) Benzene	15.23	78	198475	2.046 ng		97
42) Carbon Tetrachloride	15.45	117	14082	0.519 ng		97
43) Cyclohexane	15.66	84	26327	0.701 ng		84
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.43	63	221	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D. d		
47) Trichloroethene	16.77	130	456	N.D.		
48) 1,4-Dioxane	16.76	88	588	N.D.		
49) 2,2,4-Trimethylpentane...	16.85	57	514788	4.610 ng		98
50) Methyl Methacrylate	17.03	100	1265	0.130 ng	#	1
51) n-Heptane	17.21	71	56259	2.178 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.99	58	28576	1.363 ng		90
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.77	97	850	N.D.		
58) Toluene	19.28	91	1599049	16.117 ng		100
59) 2-Hexanone	19.59	43	27798	0.539 ng	#	53
60) Dibromochloromethane	19.82	129	4539	0.214 ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.39	43	76410	1.358 ng		90
63) n-Octane	20.55	57	20994	0.949 ng		90
64) Tetrachloroethene	20.75	166	16270	0.661 ng		99
65) Chlorobenzene	21.66	112	2852	N.D.		
66) Ethylbenzene	22.09	91	347042	3.240 ng		98
67) m- & p-Xylenes	22.30	91	852697	10.041 ng		99
68) Bromoform	22.41	173	19889	1.082 ng		99
69) Styrene	22.77	104	54006	0.860 ng		99
70) o-Xylene	22.92	91	332514	3.892 ng		99
71) n-Nonane	23.17	43	34854	0.677 ng		93
72) 1,1,2,2-Tetrachloroethane	22.91	83	1368	N.D.		
74) Cumene	23.66	105	30844	0.278 ng		97
75) alpha-Pinene	24.15	93	596791	10.920 ng		98
76) n-Propylbenzene	24.28	91	125162	0.914 ng		96
77) 3-Ethyltoluene	24.40	105	357614	3.446 ng		99
78) 4-Ethyltoluene	24.46	105	162935	1.562 ng		96
79) 1,3,5-Trimethylbenzene	24.55	105	137686	1.596 ng		99

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:18:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

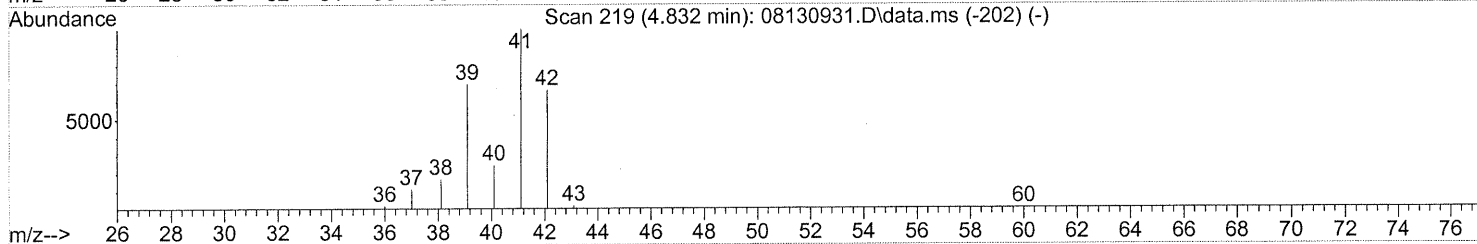
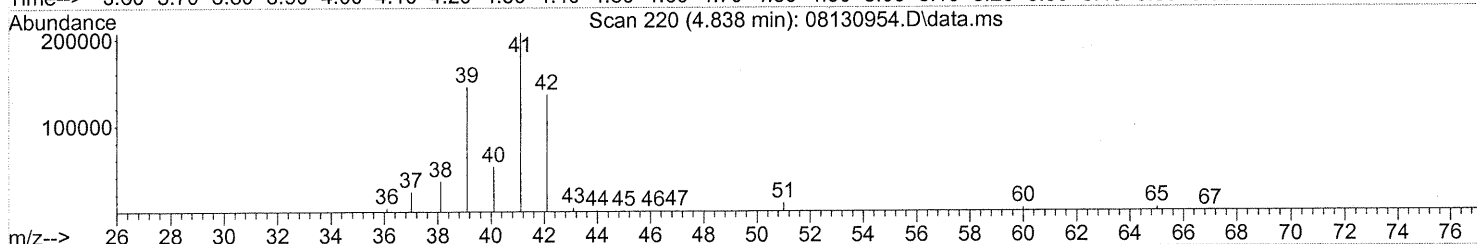
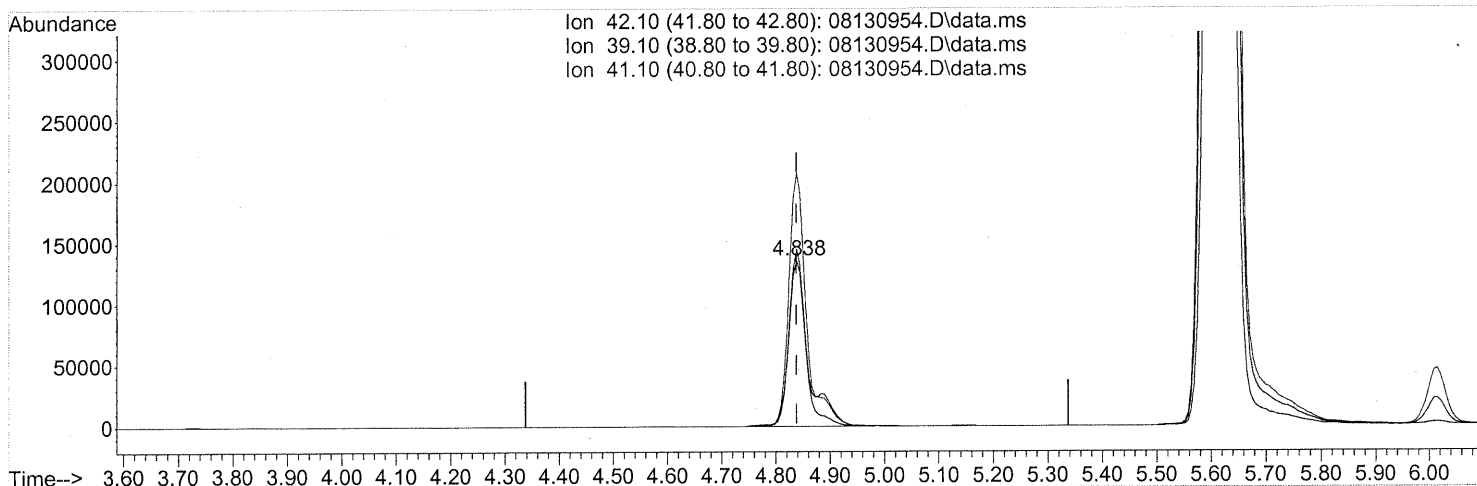
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	1477	N.D.		
81) 2-Ethyltoluene	24.79	105	120554	1.125 ng		98
82) 1,2,4-Trimethylbenzene	25.05	105	512277	5.593 ng		89
83) n-Decane	25.15	57	53588	1.005 ng		98
84) Benzyl Chloride	25.21	91	224	N.D.		
85) 1,3-Dichlorobenzene	25.33	146	2631	0.055 ng		98
86) 1,4-Dichlorobenzene	25.33	146	2631	0.052 ng		98
87) sec-Butylbenzene	25.38	105	6495	0.054 ng	#	78
88) 4-Isopropyltoluene (p-...	25.56	119	84906	0.734 ng		92
89) 1,2,3-Trimethylbenzene	25.57	105	115191	1.244 ng		95
90) 1,2-Dichlorobenzene	25.33	146	2631	0.055 ng		98
91) d-Limonene	25.74	68	523599	13.973 ng		98
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	41910	0.761 ng		92
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	90005	0.732 ng		94
96) n-Dodecane	27.89	57	42088	0.683 ng		95
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.51	55	37072	1.186 ng		96
99) tert-Butylbenzene	25.49	119	13787	0.152 ng		97
100) n-Butylbenzene	26.07	91	38900	0.405 ng	#	40

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(2) Propene (T)

4.838min (+0.000) 9.48ng

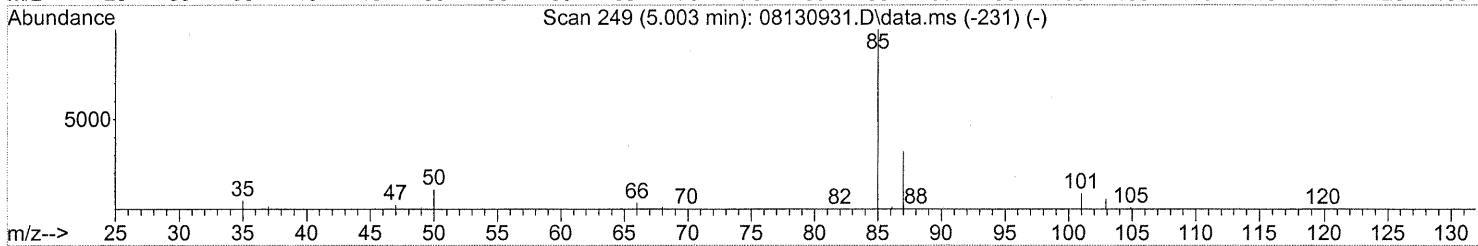
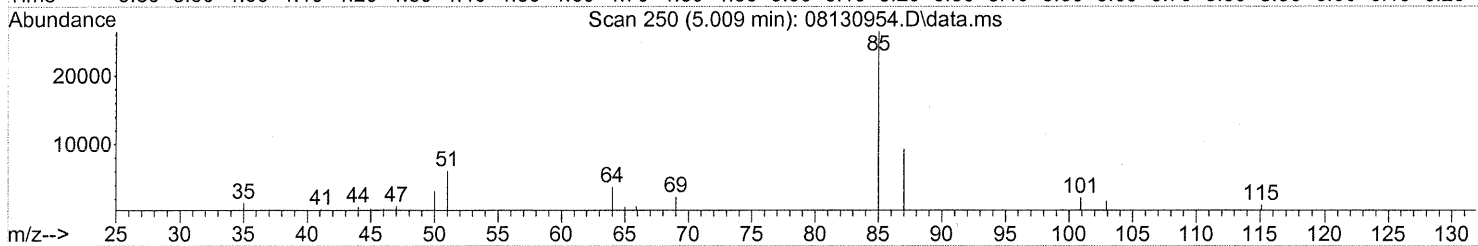
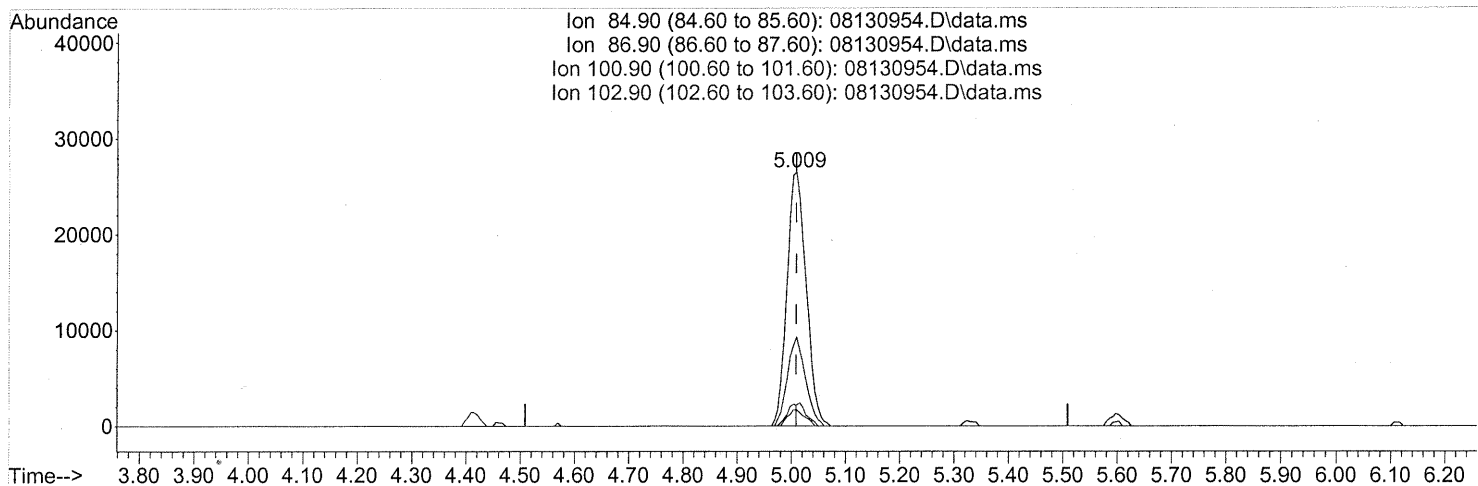
response 294131

Ion	Exp%	Act%
42.10	100	100
39.10	115.80	119.75
41.10	152.70	161.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

5.009min (+0.000) 1.46ng

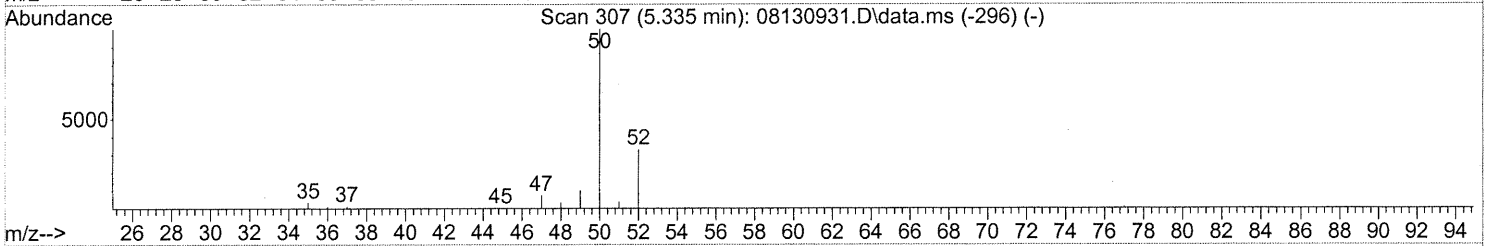
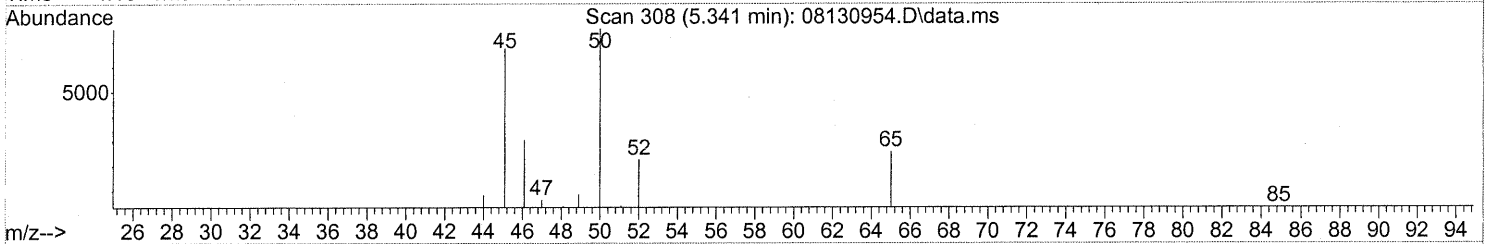
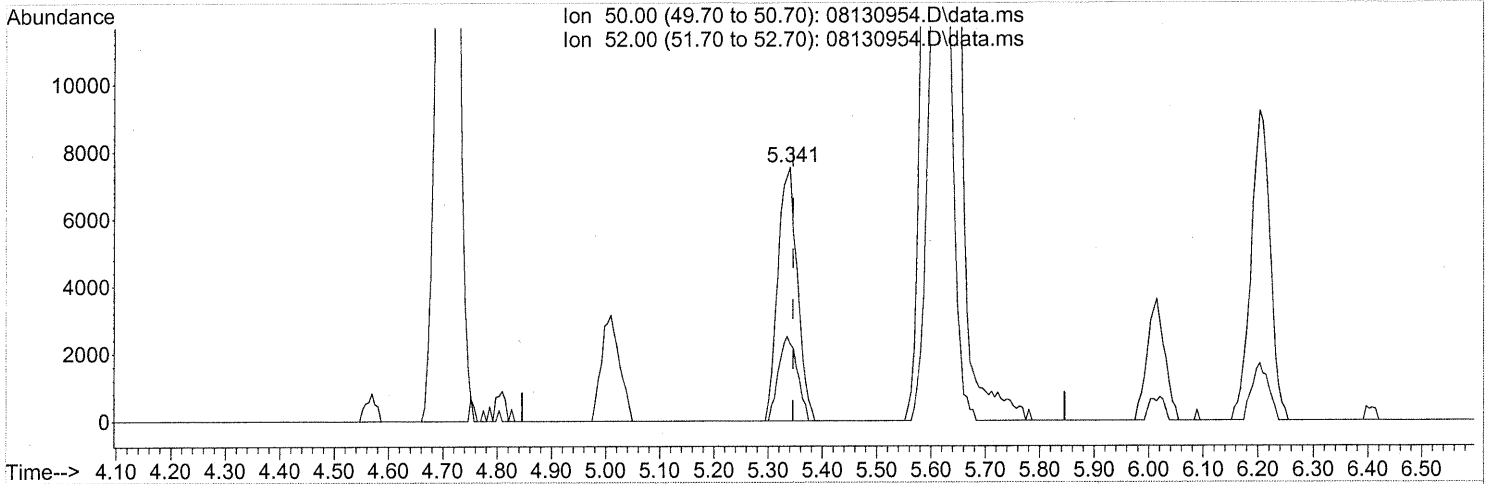
response 64642

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.72
100.90	9.10	8.44
102.90	5.50	5.42

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

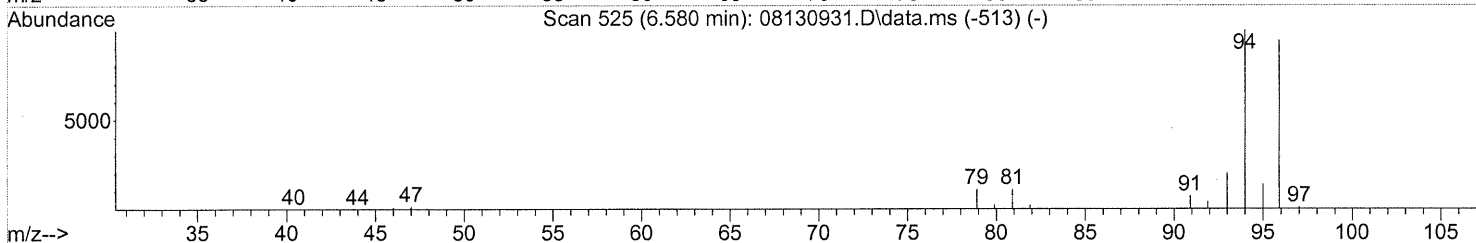
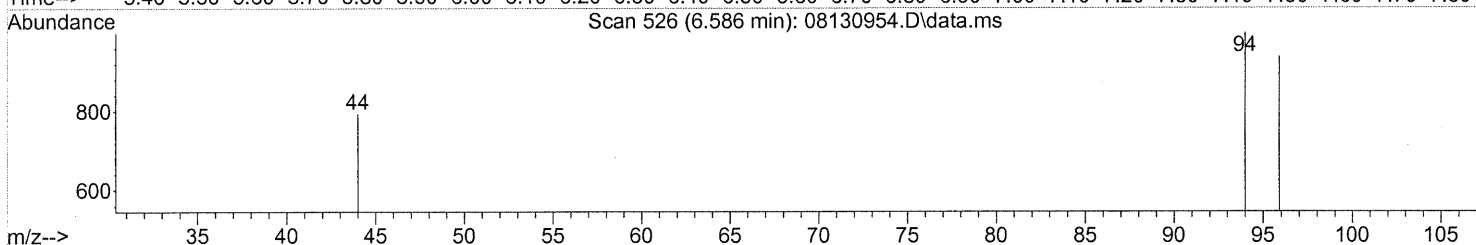
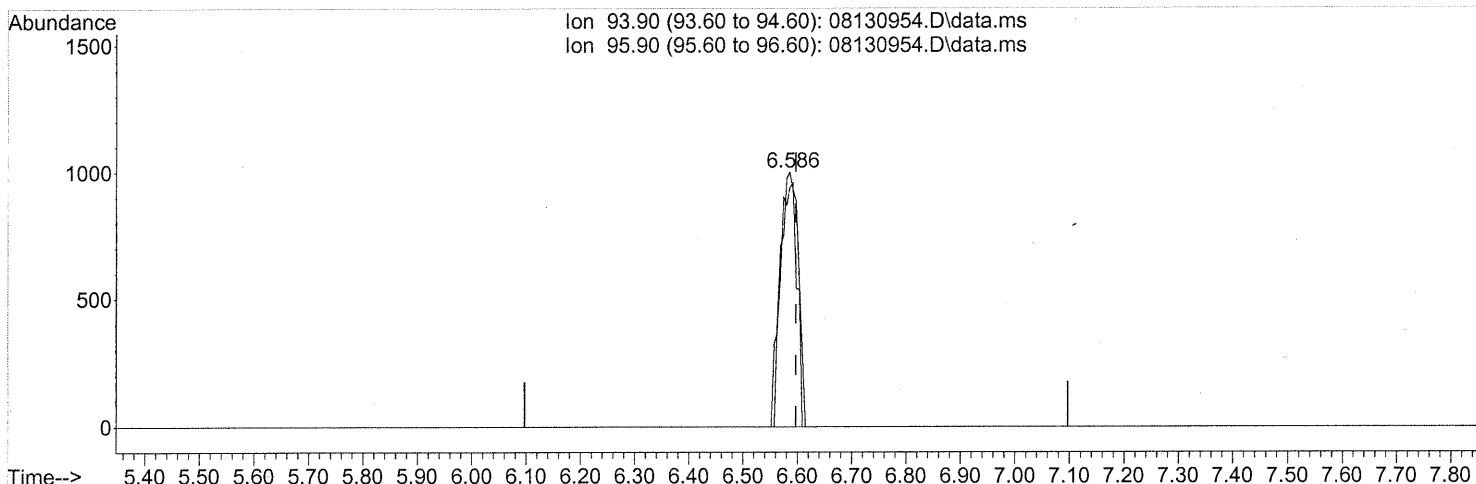
(4) Chloromethane (T)
 5.341min (-0.006) 0.46ng
 response 18776

Ion	Exp%	Act%
50.00	100	100
52.00	33.20	32.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

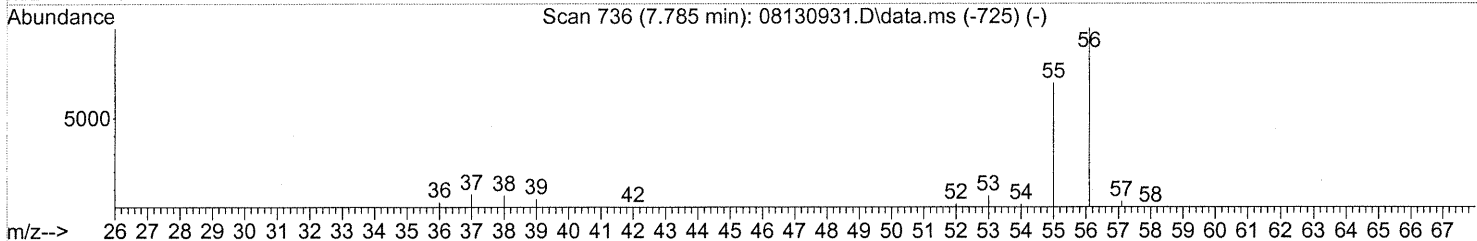
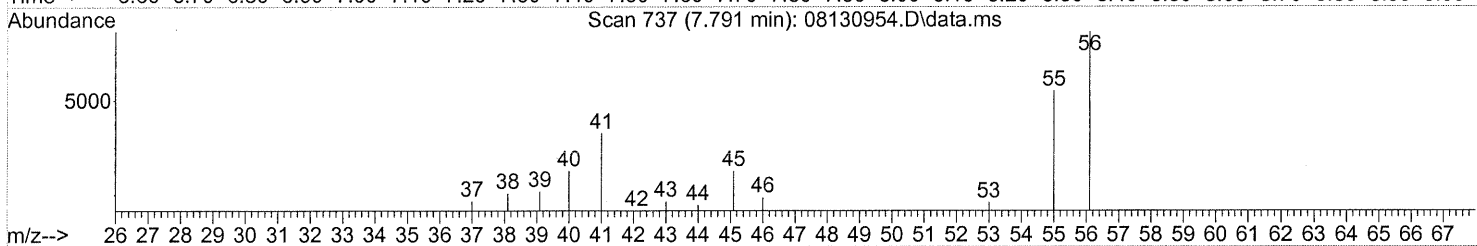
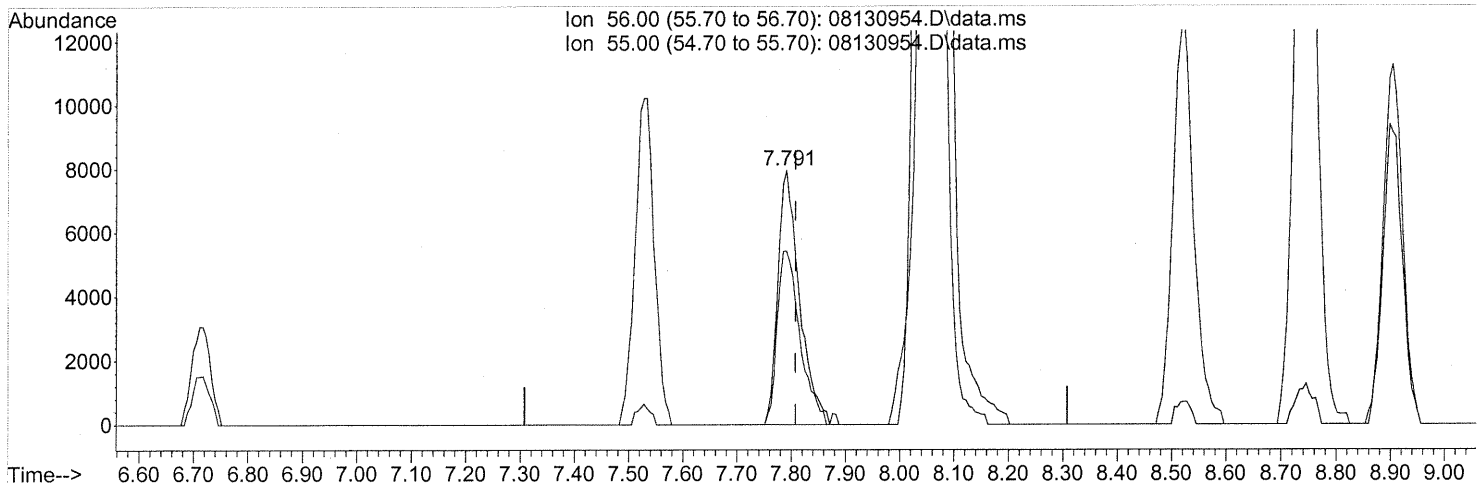
(8) Bromomethane (T)
 6.586min (-0.011) 0.10ng
 response 2233

Ion	Exp%	Act%
93.90	100	100
95.90	94.20	92.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

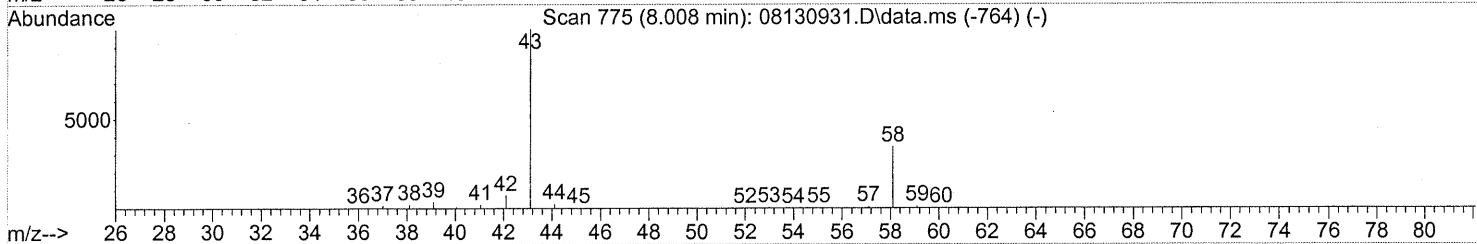
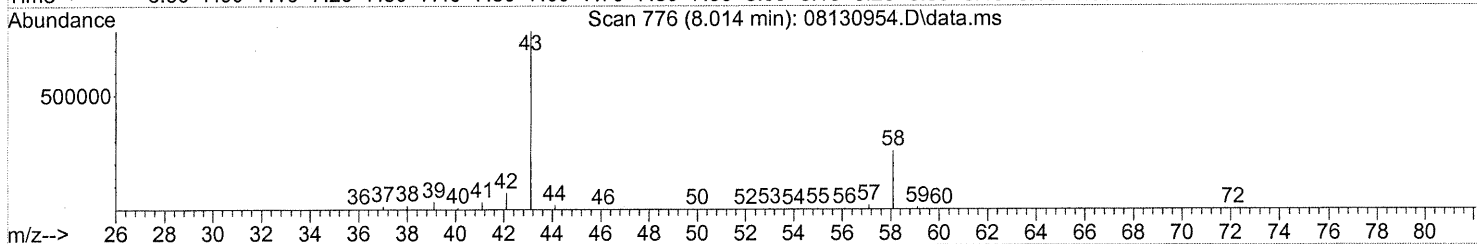
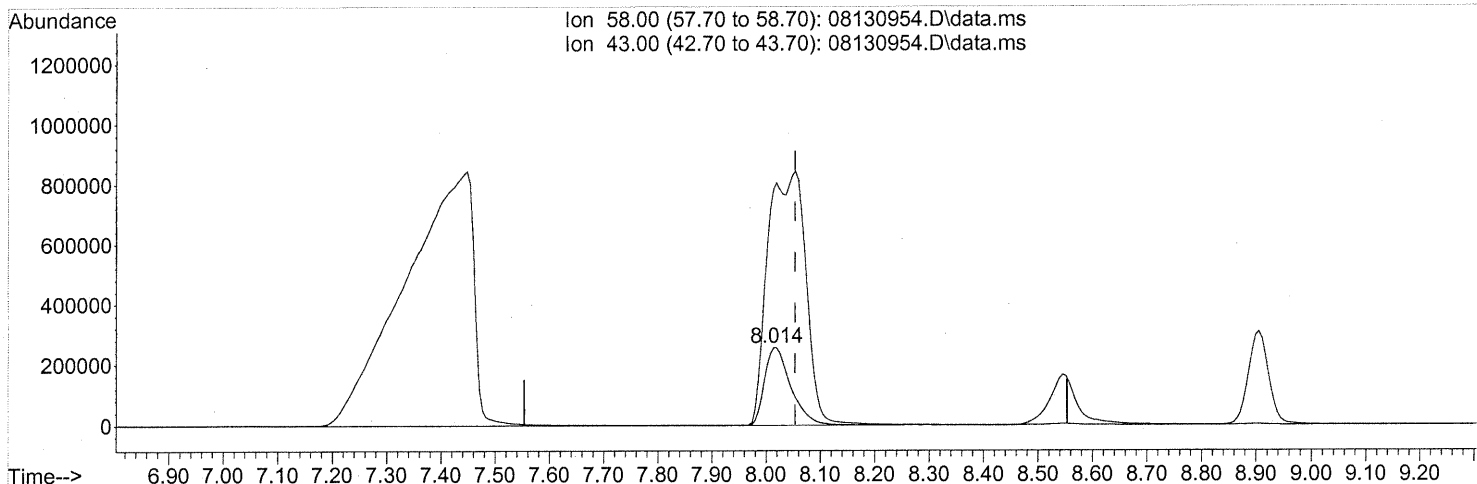
(12) Acrolein (T)
 7.791min (-0.017) 1.73ng
 response 21920

Ion	Exp%	Act%
56.00	100	100
55.00	67.70	71.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(13) Acetone (T)

8.014min (-0.040) 43.62ng

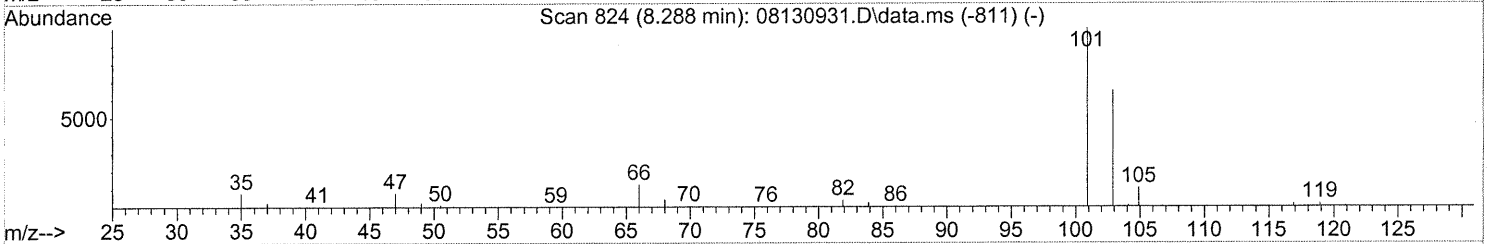
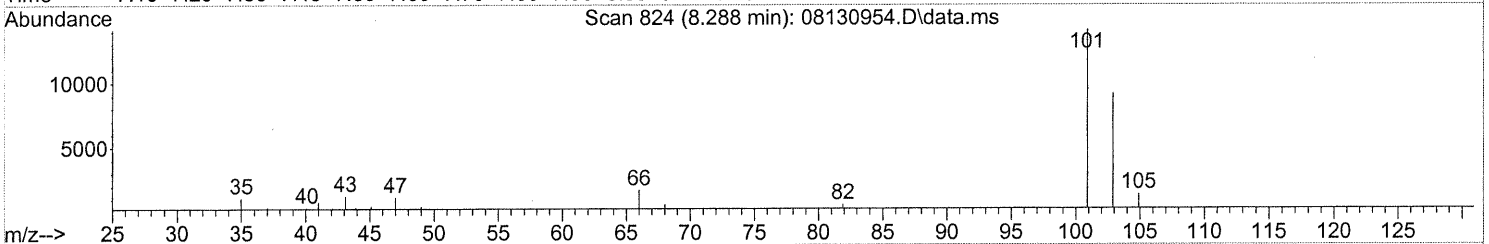
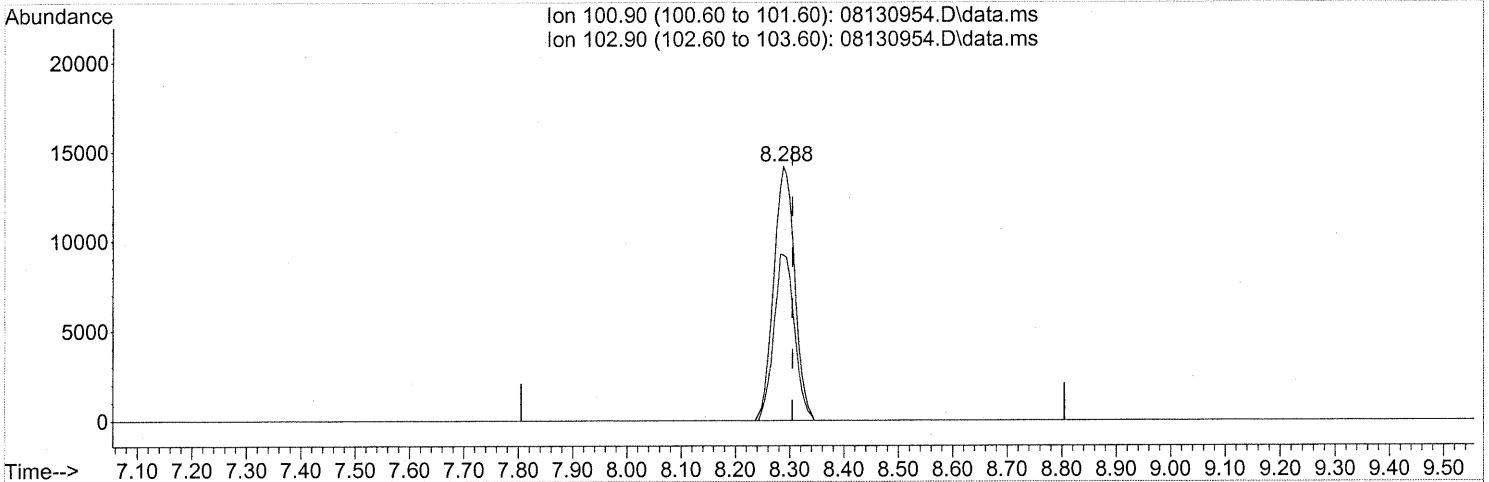
response 863701

Ion	Exp%	Act%
58.00	100	100
43.00	317.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130954.D
Acq On : 14 Aug 2009 22:34
Operator : EM
Sample : P0902720-007 (1000ml)
Misc : Environmental H & E 100678
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



TIC: 08130954.D\data.ms

(14) Trichlorofluoromethane (T)

8.288min (-0.017) 1.00ng

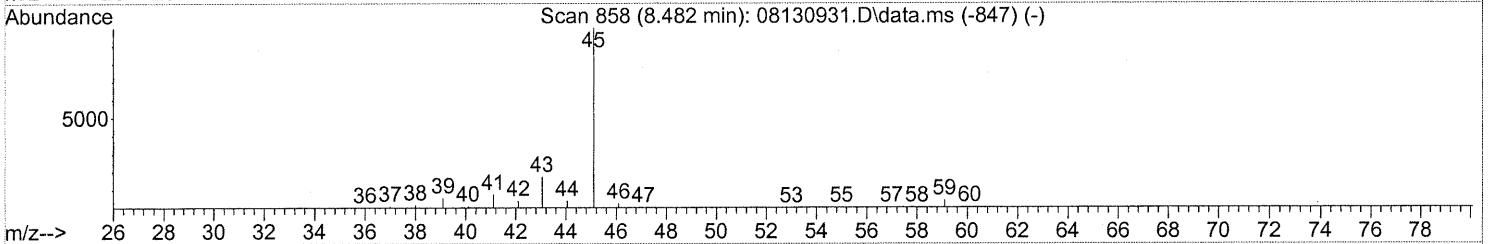
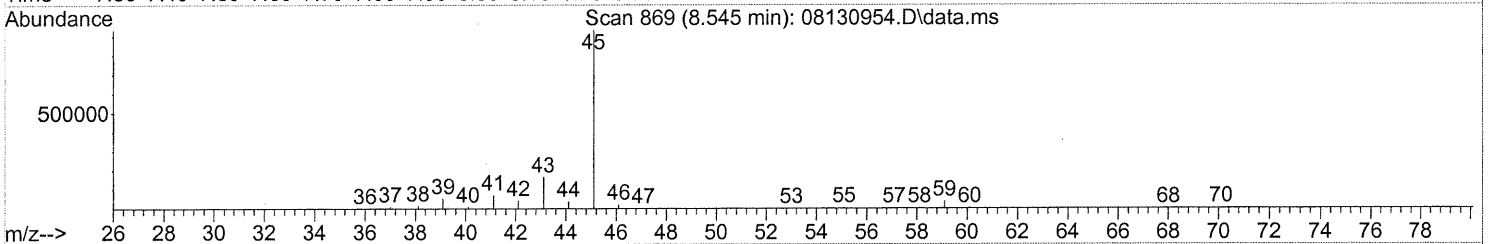
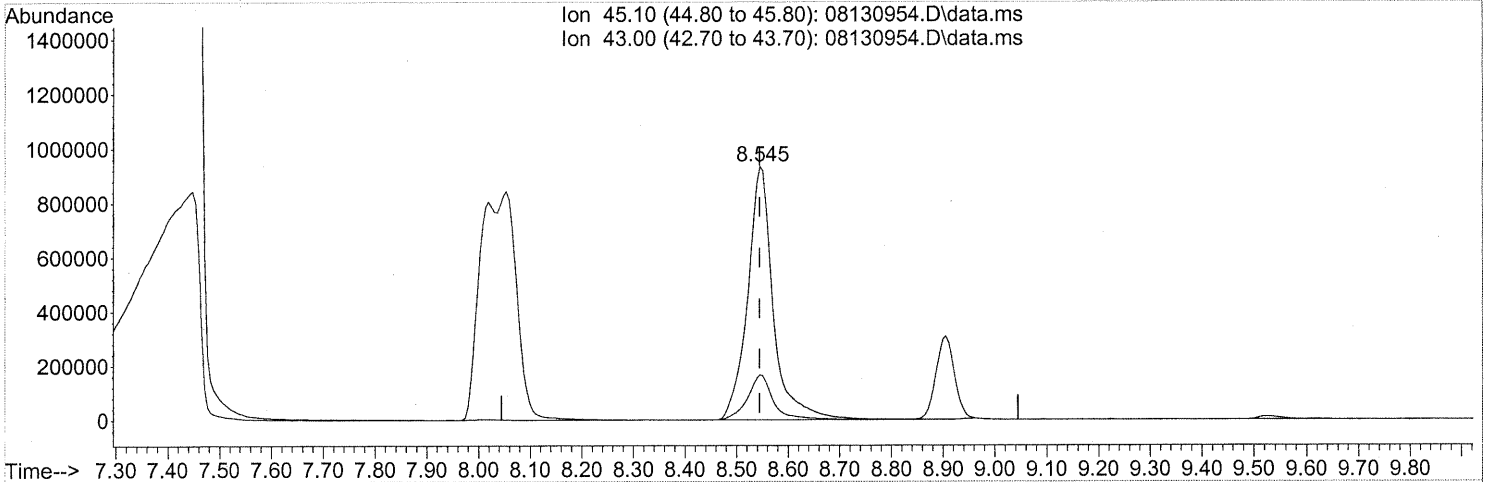
response 37826

Ion	Exp%	Act%
100.90	100	100
102.90	66.00	64.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

8.545min (+0.000) 59.79ng

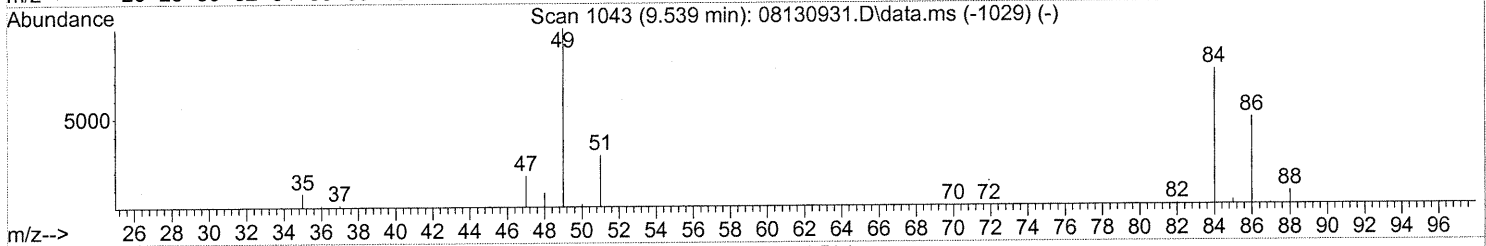
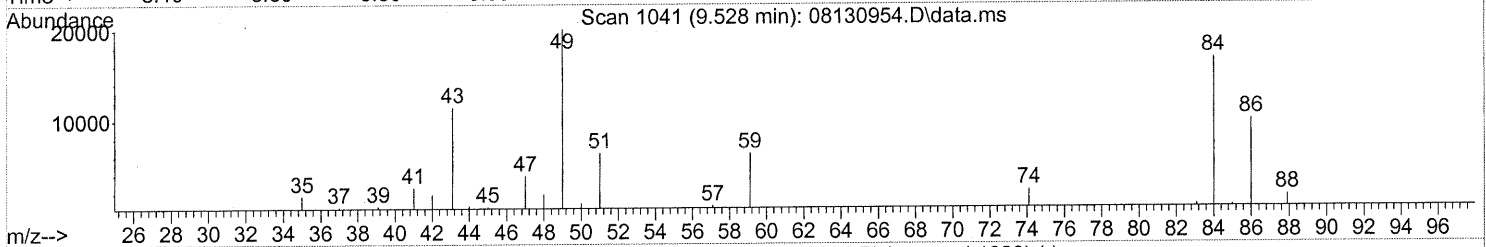
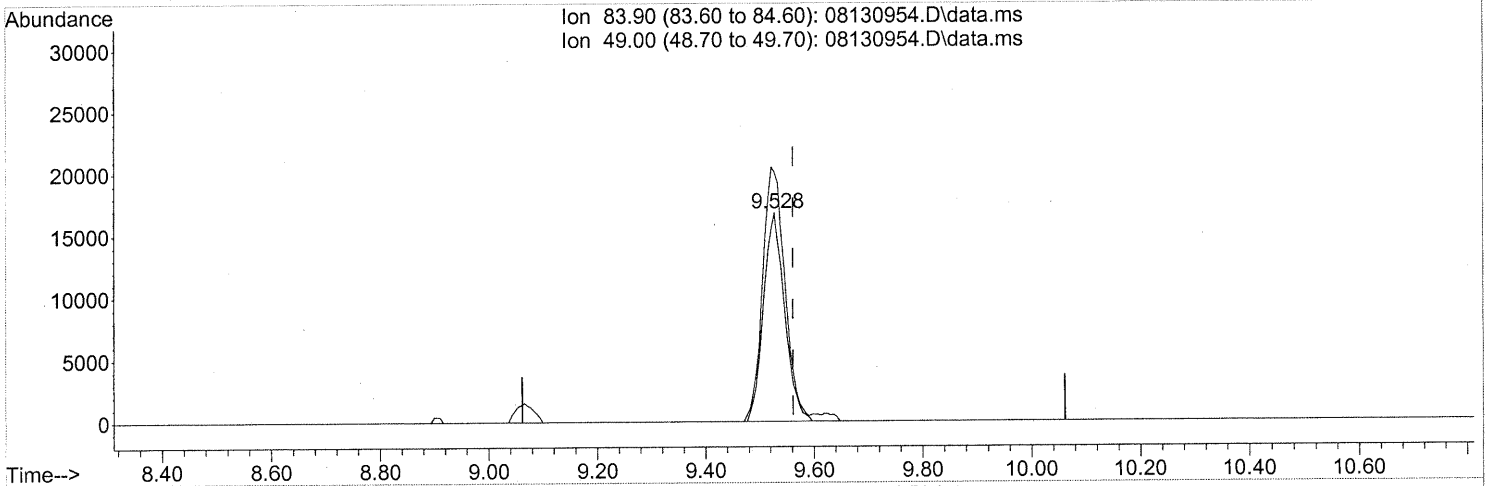
response 3241901

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
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 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(19) Methylene Chloride (T)

9.528min (-0.034) 1.82ng

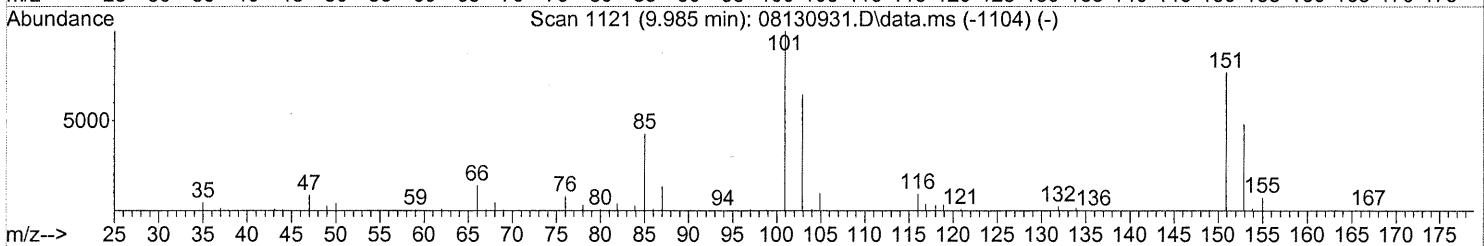
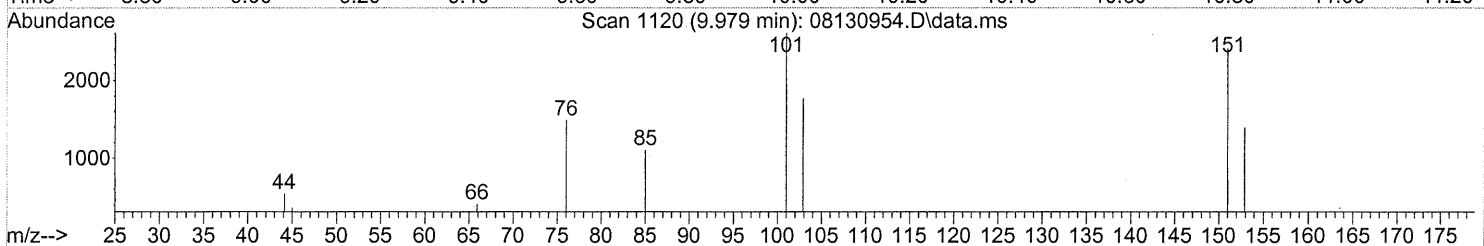
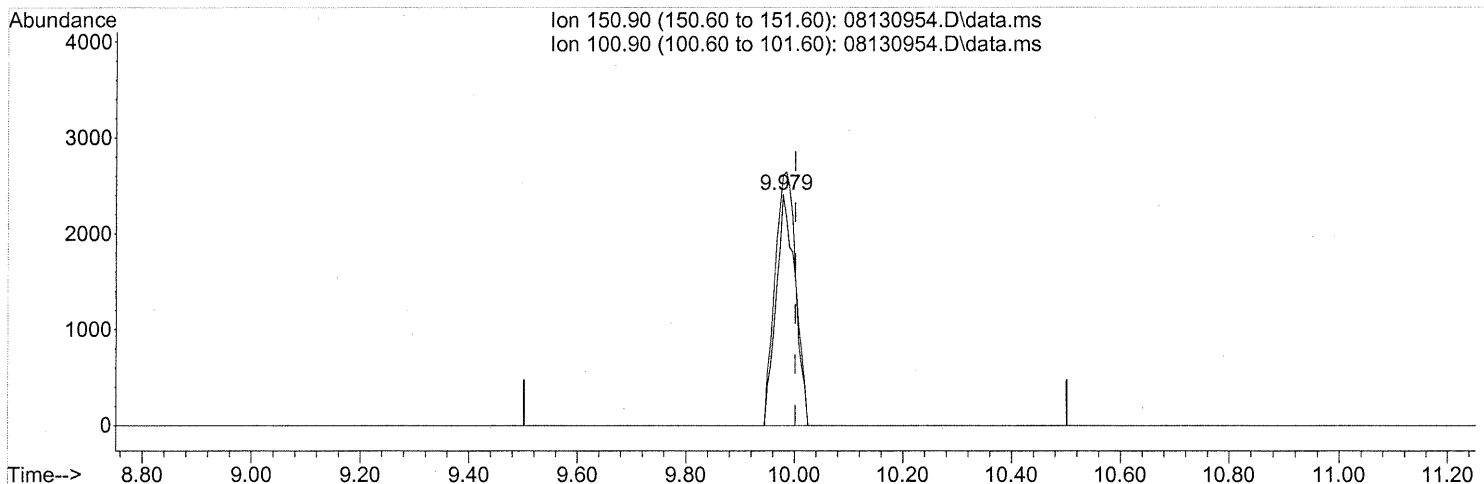
response 44991

Ion	Exp%	Act%
83.90	100	100
49.00	118.80	132.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.979min (-0.023) 0.34ng

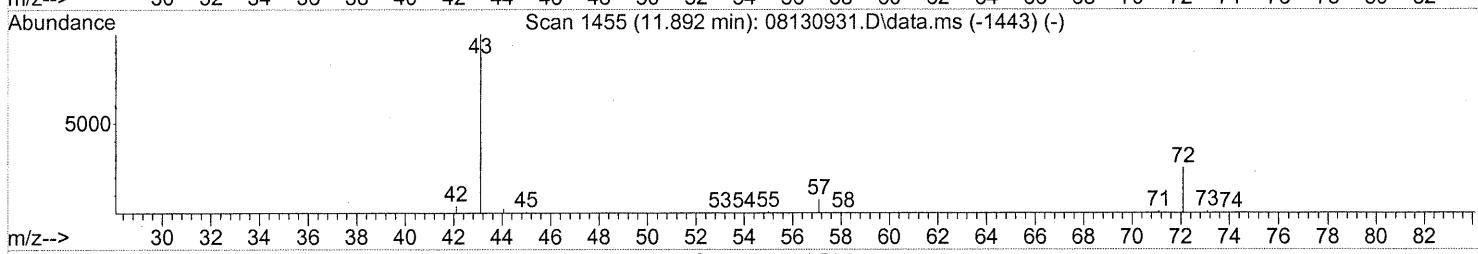
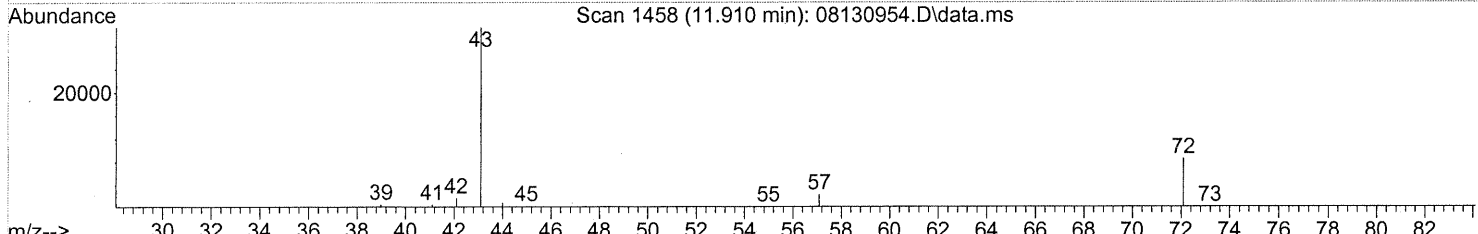
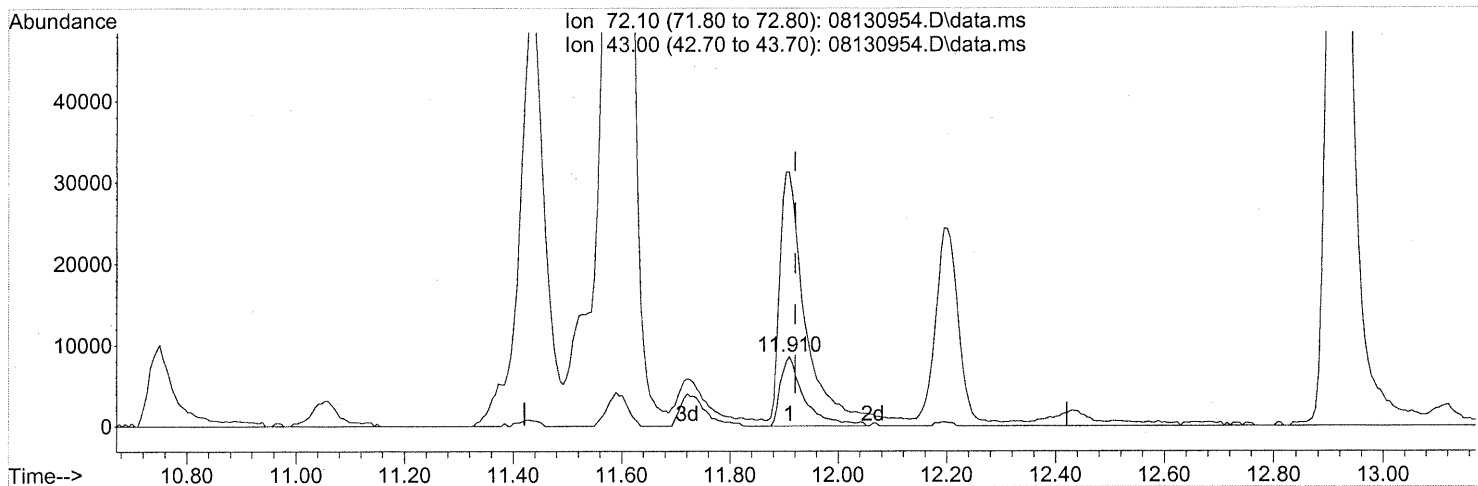
response 5835

Ion	Exp%	Act%
150.90	100	100
100.90	127.40	122.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

11.910min (-0.011) 1.85ng

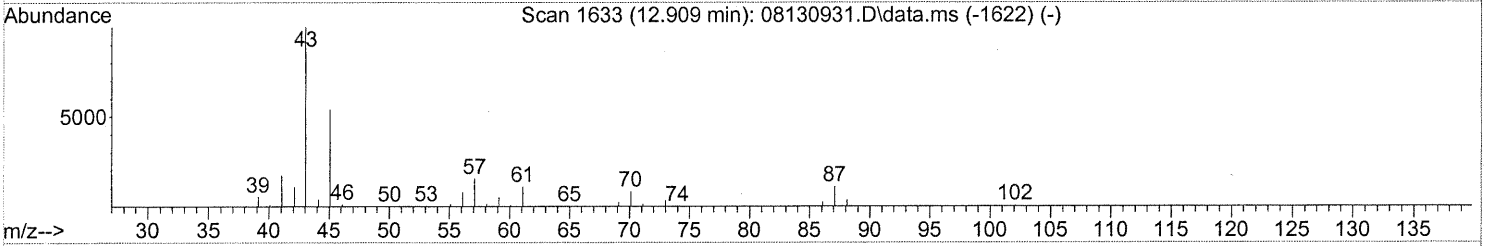
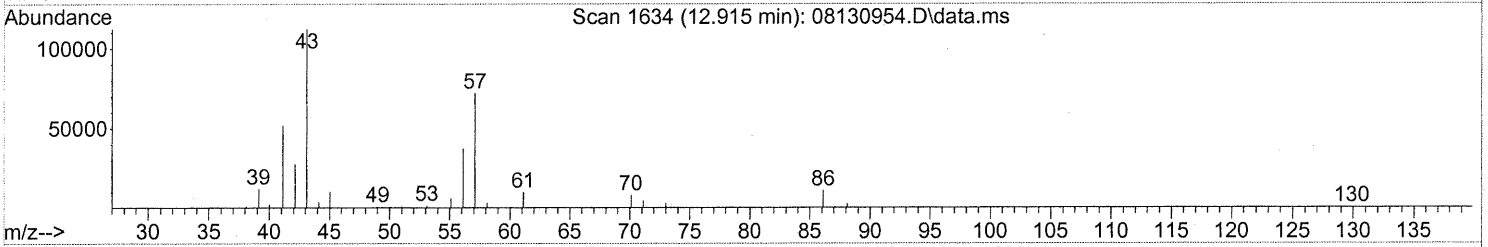
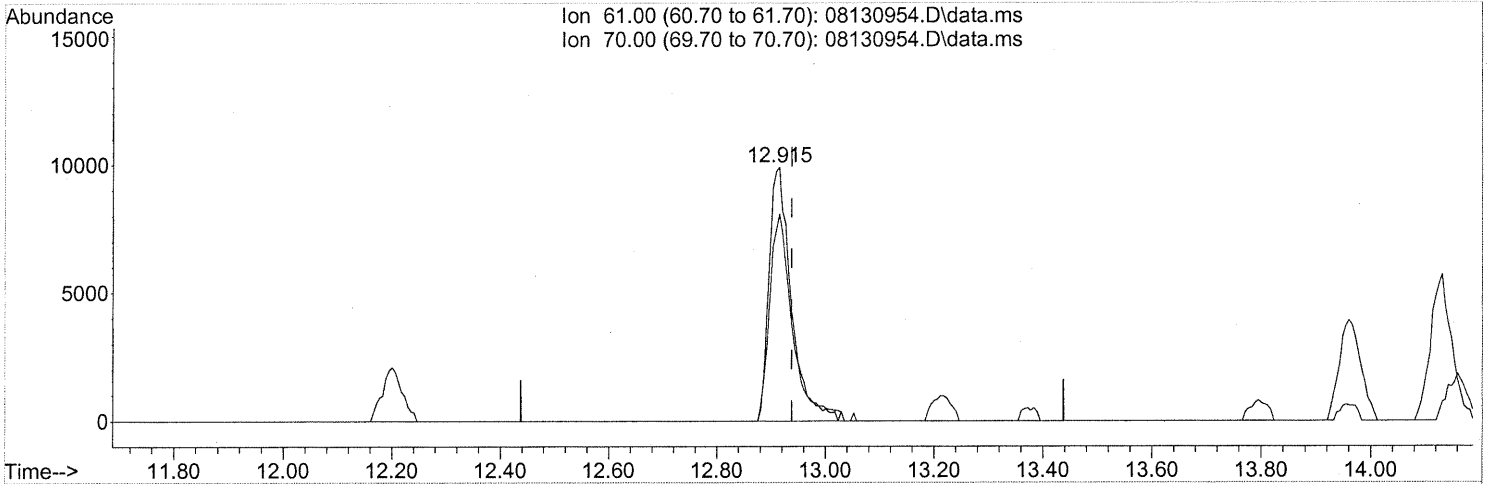
response 25577

Ion	Exp%	Act%
72.10	100	100
43.00	366.50	381.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

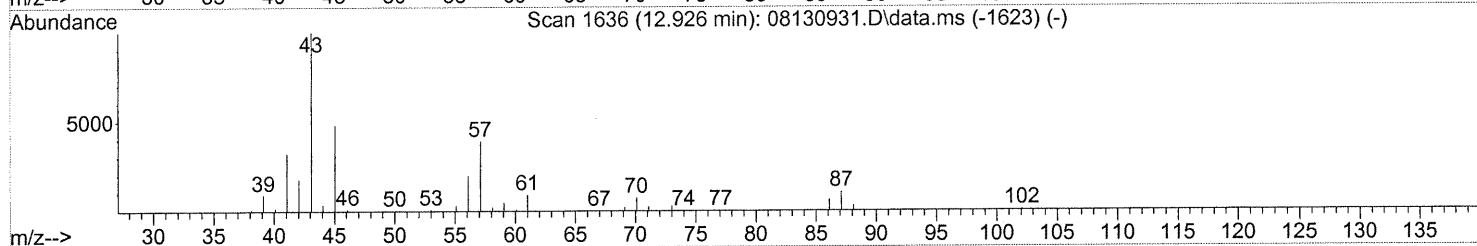
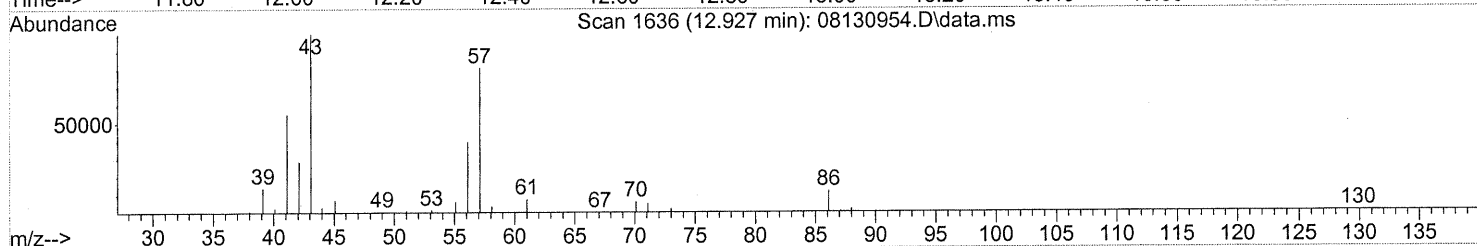
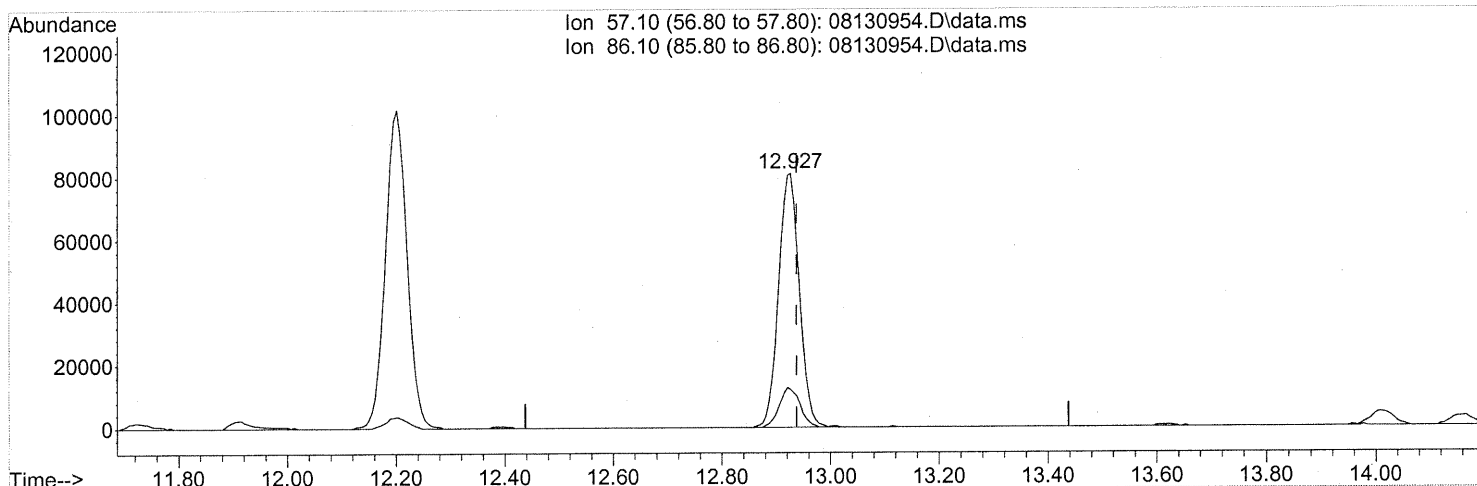
(30) Ethyl Acetate (T)
 12.915min (-0.023) 3.16ng
 response 28317

Ion	Exp%	Act%
61.00	100	100
70.00	78.80	83.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
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Quant Time: Aug 17 08:26:06 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

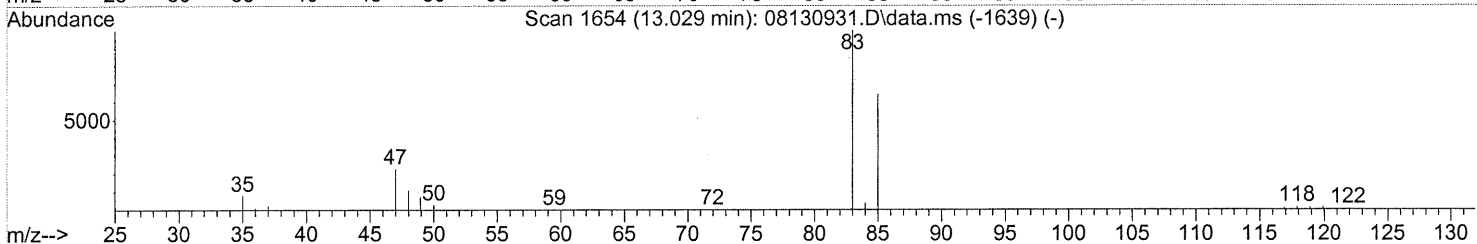
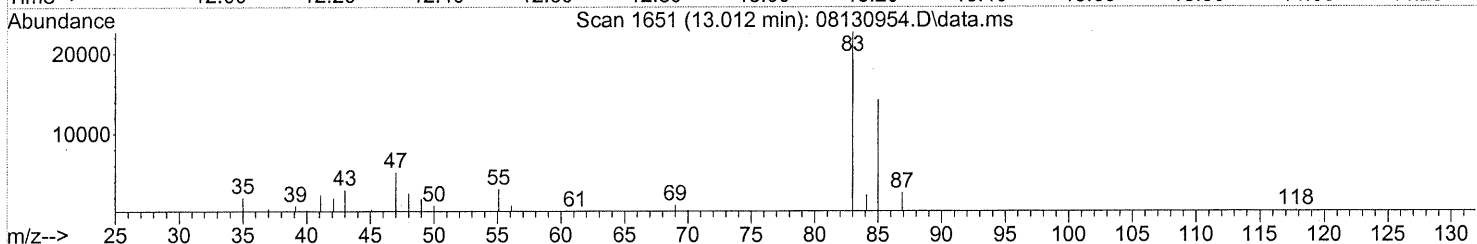
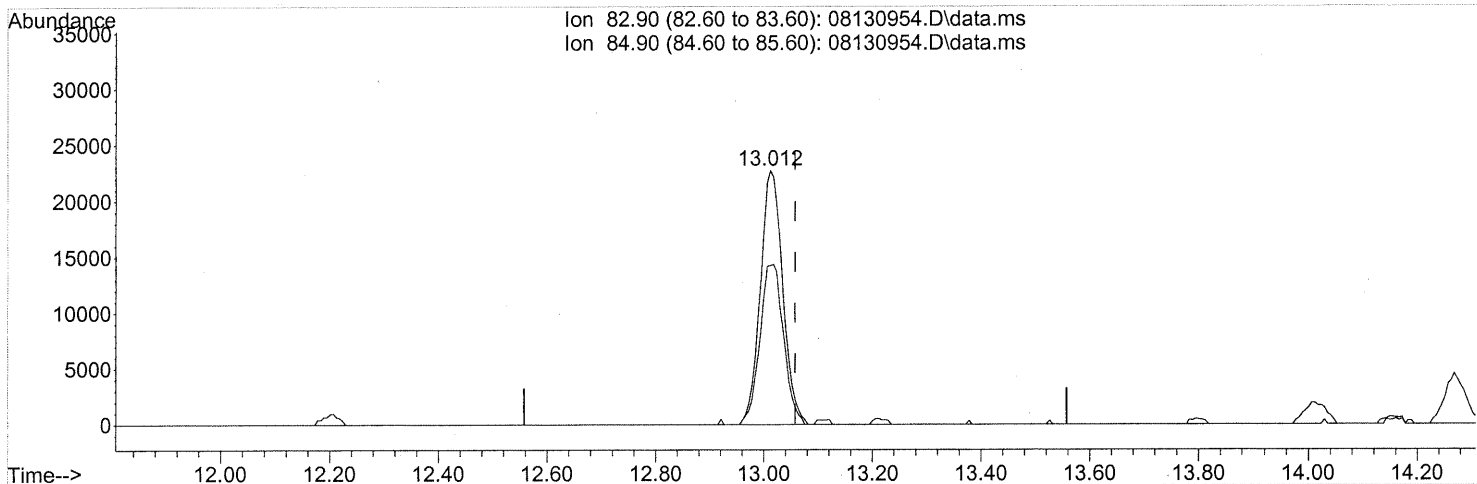
(31) n-Hexane (T)
 12.927min (-0.011) 4.90ng
 response 213635

Ion	Exp%	Act%
57.10	100	100
86.10	17.50	15.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
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 Misc : Environmental H & E 100678
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

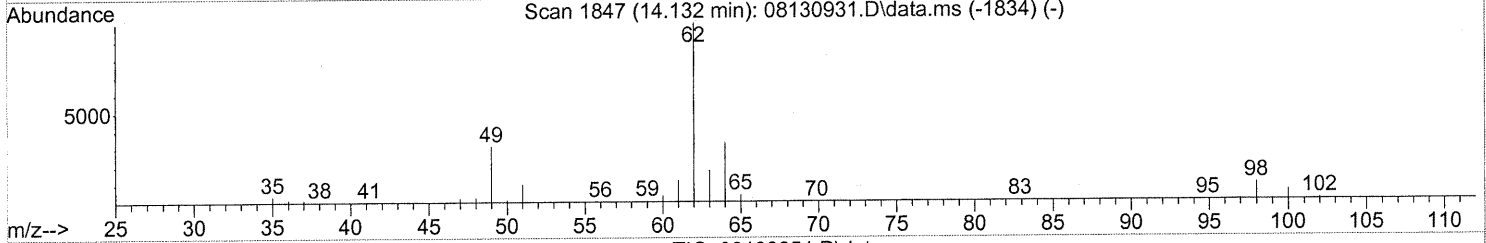
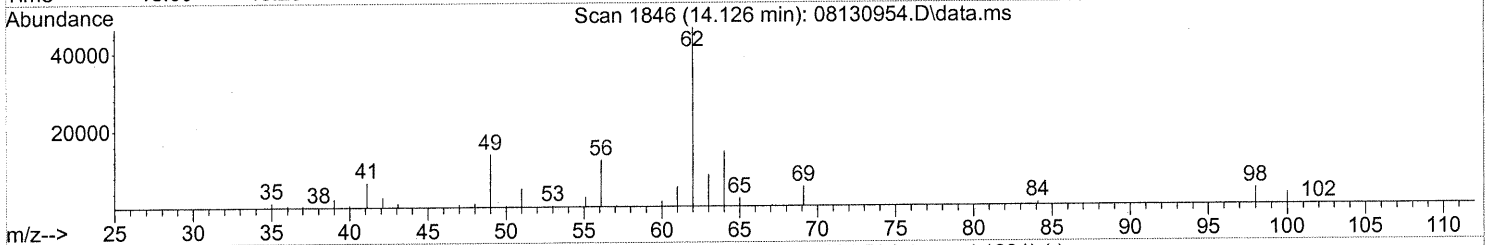
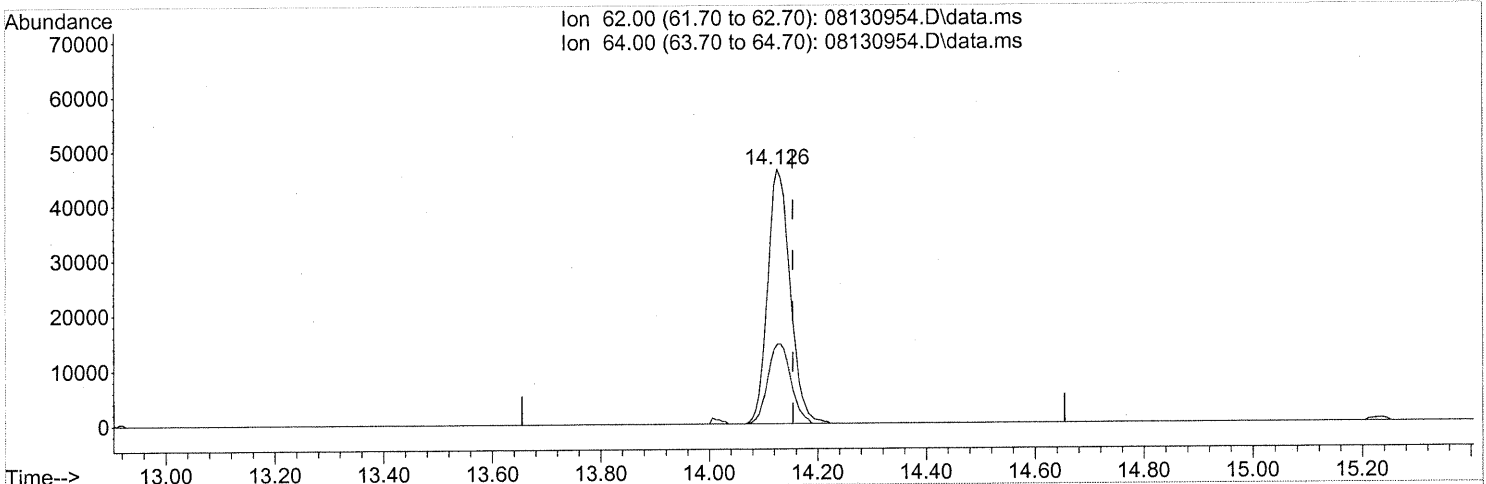
(32) Chloroform (T)
 13.012min (-0.046) 1.78ng
 response 64889

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	66.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
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Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(36) 1,2-Dichloroethane (T)

14.126min (-0.028) 4.72ng

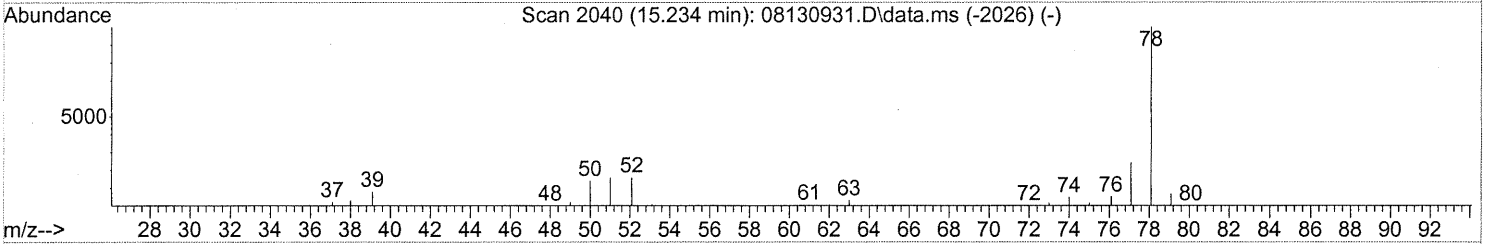
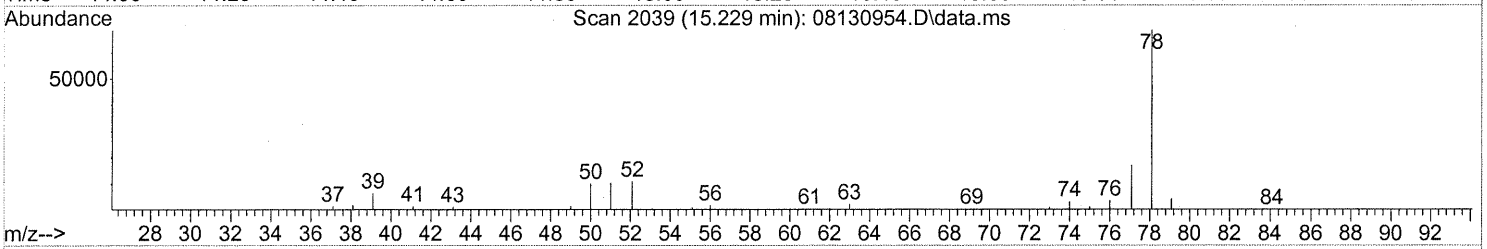
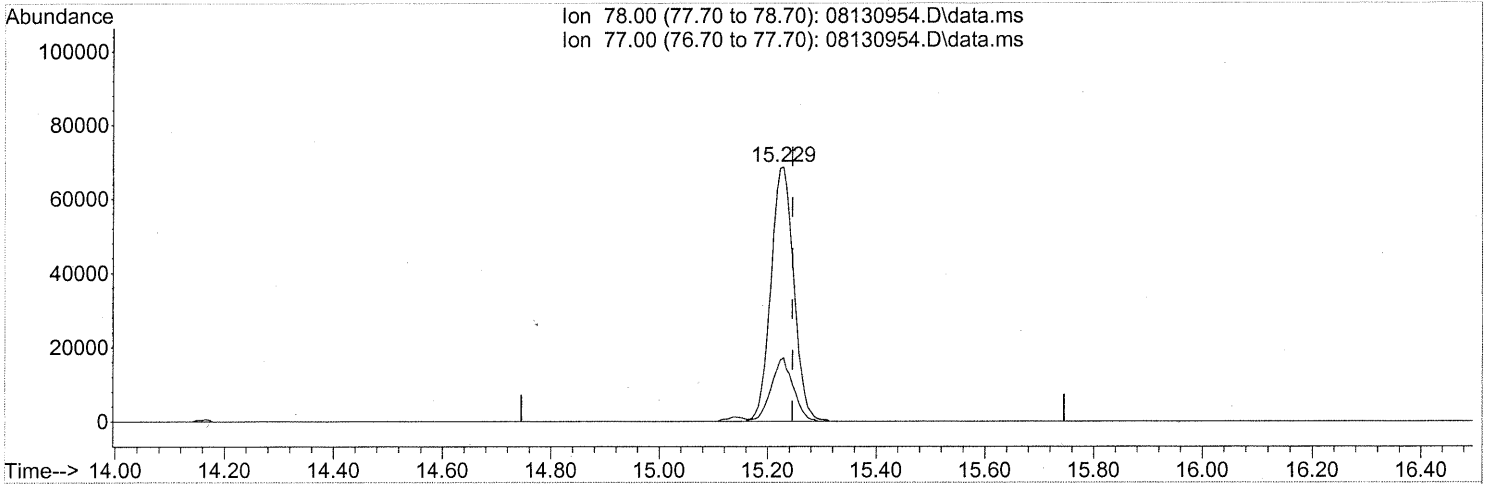
response 132029

Ion	Exp%	Act%
62.00	100	100
64.00	32.70	32.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

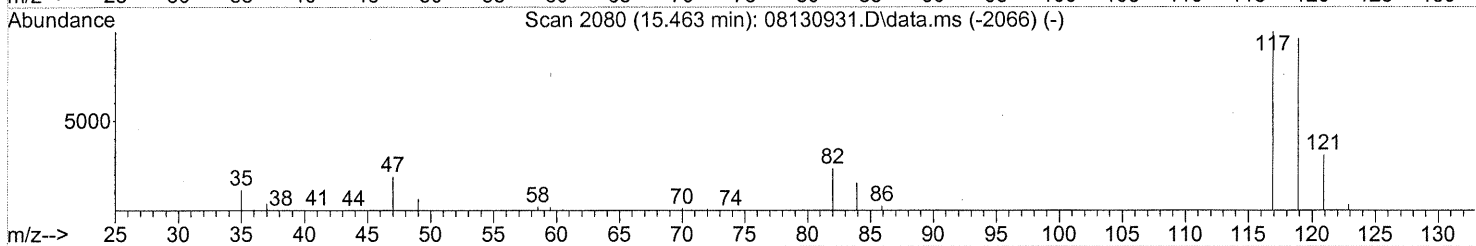
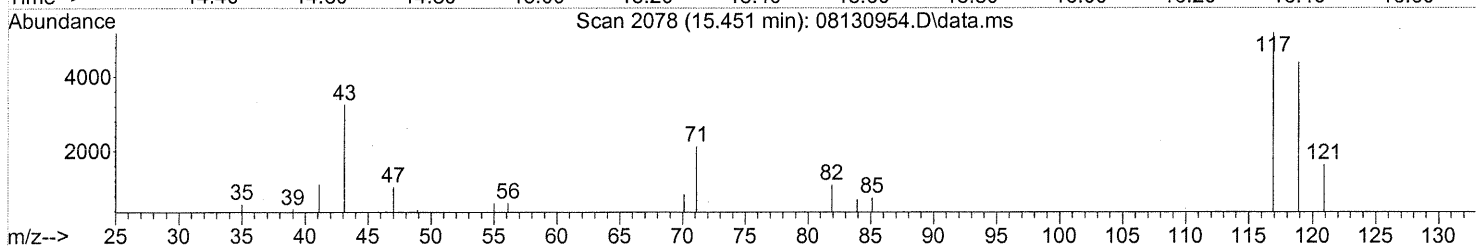
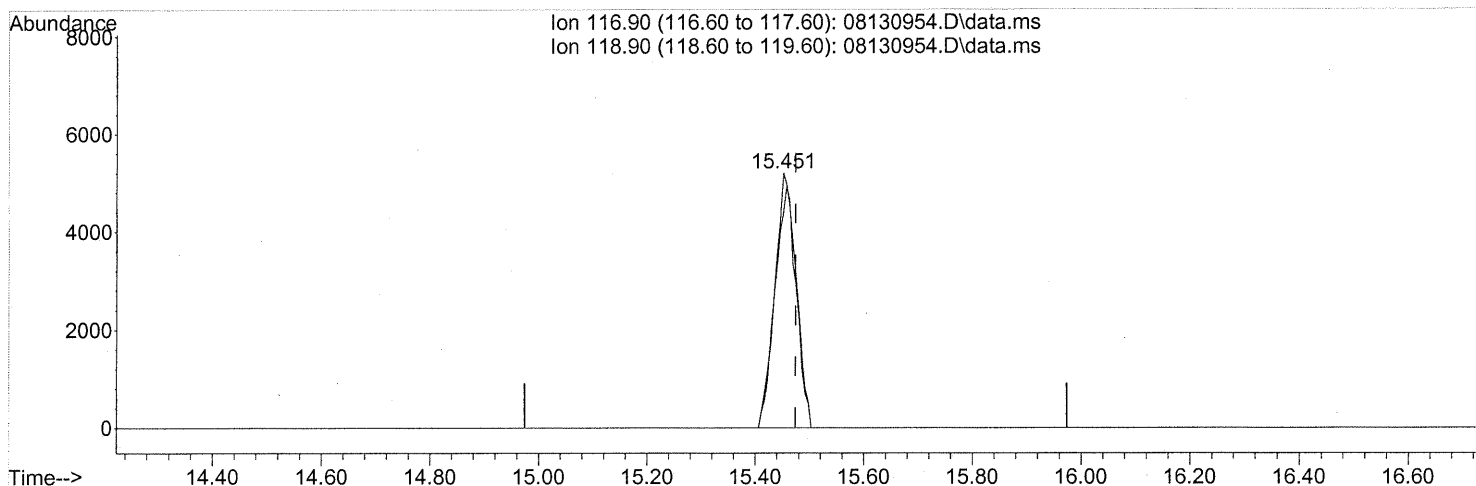
(41) Benzene (T)
 15.229min (-0.017) 2.05ng
 response 198475

Ion	Exp%	Act%
78.00	100	100
77.00	25.10	23.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(42) Carbon Tetrachloride (T)

15.451min (-0.023) 0.52ng

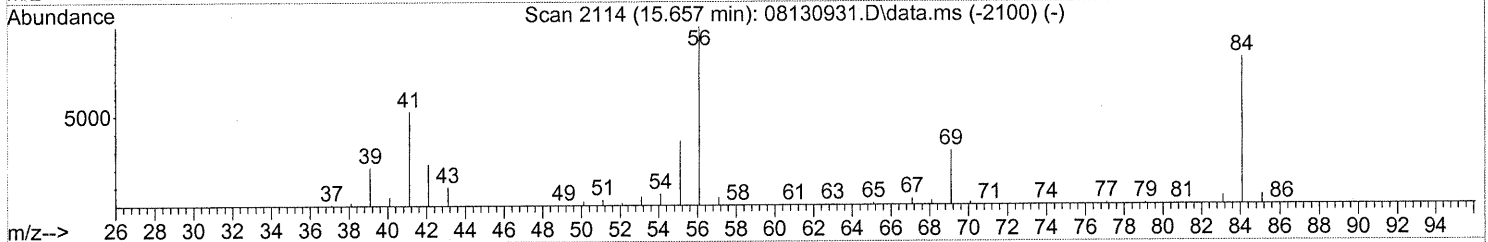
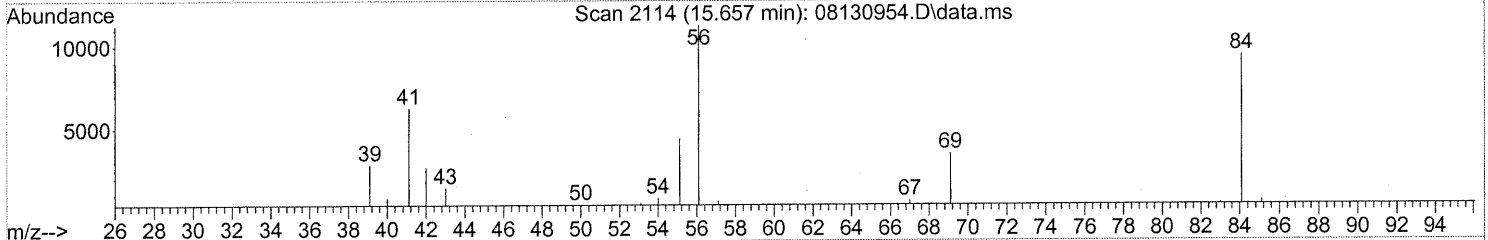
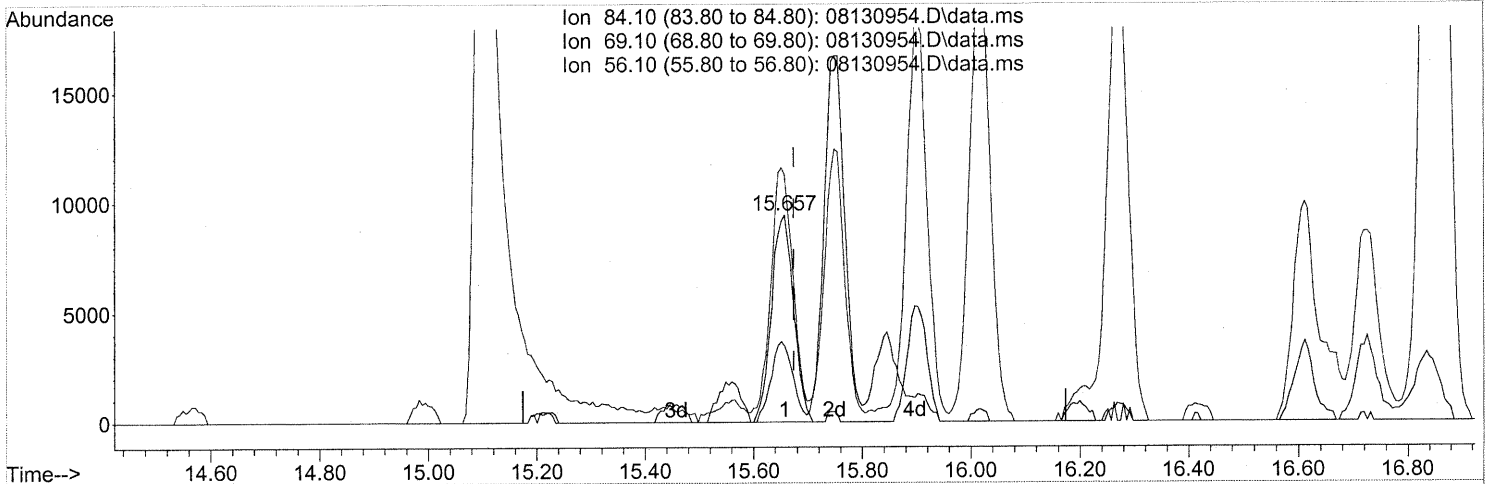
response 14082

Ion	Exp%	Act%
116.90	100	100
118.90	97.00	93.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



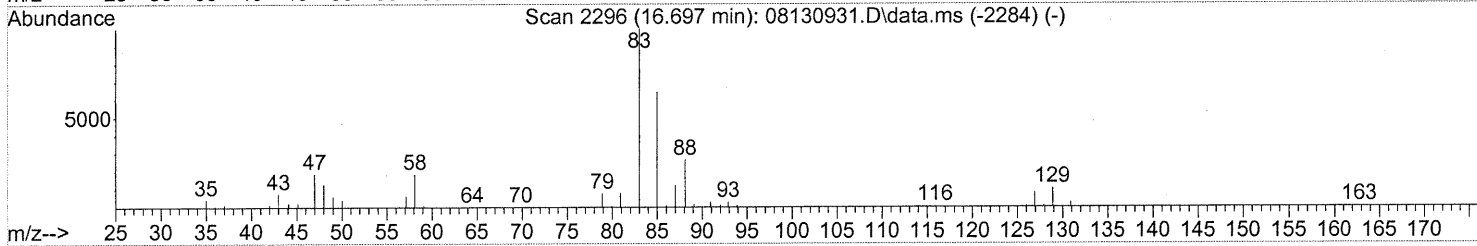
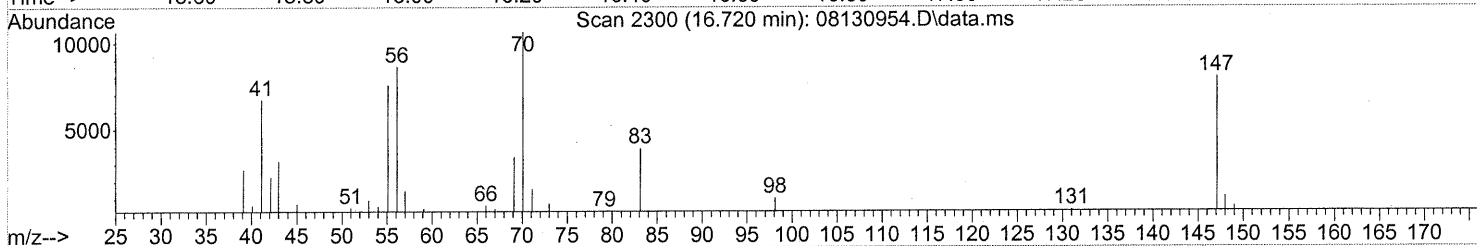
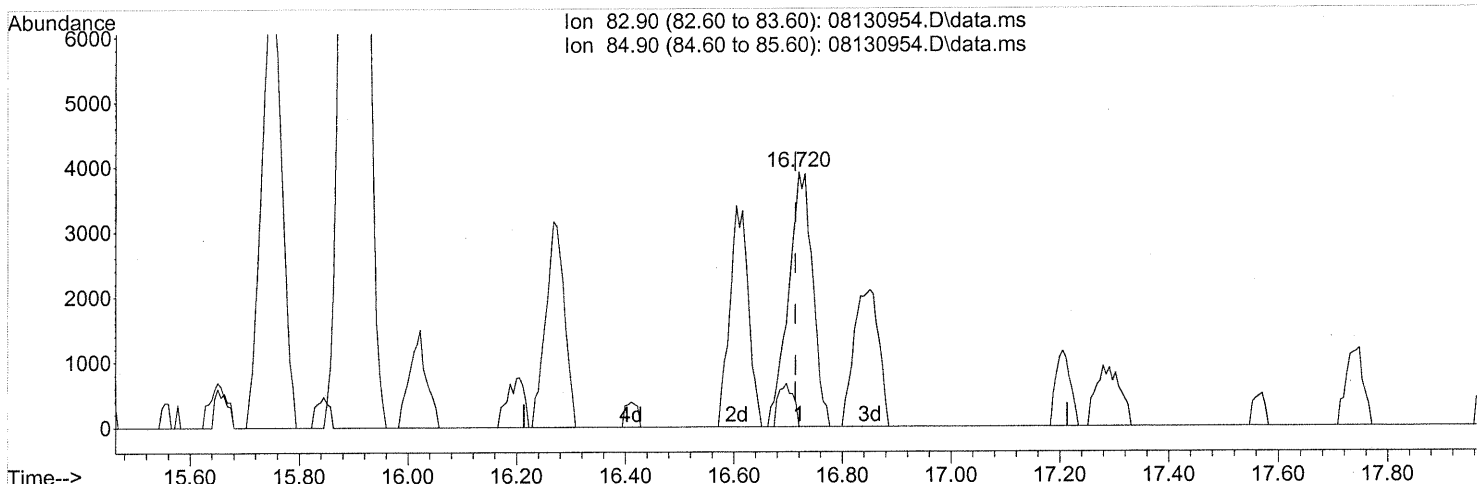
(43) Cyclohexane (T)
 15.657min (-0.017) 0.70ng
 response 26327

Ion	Exp%	Act%
84.10	100	100
69.10	34.80	38.58
56.10	107.30	126.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.720min (+0.006) 0.43ng

response 12119

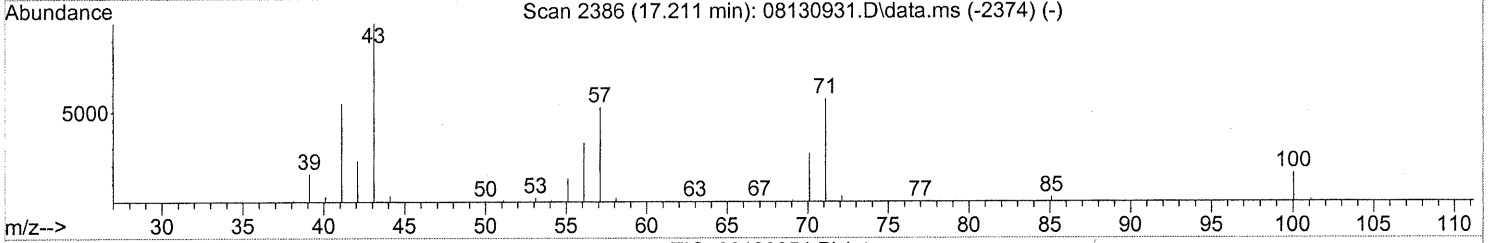
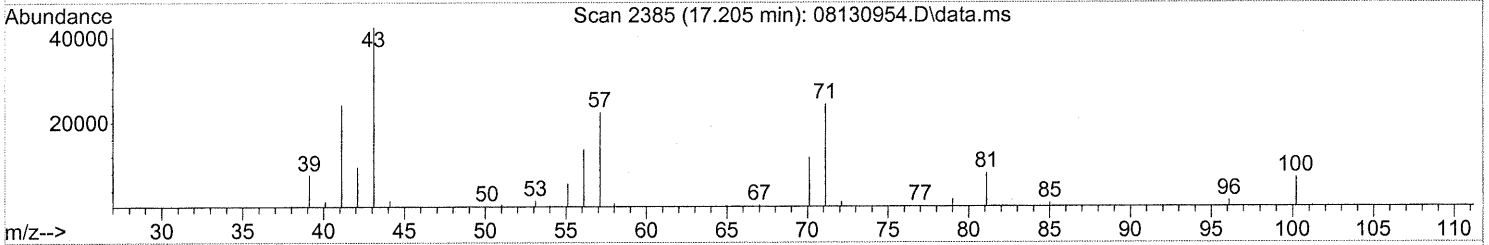
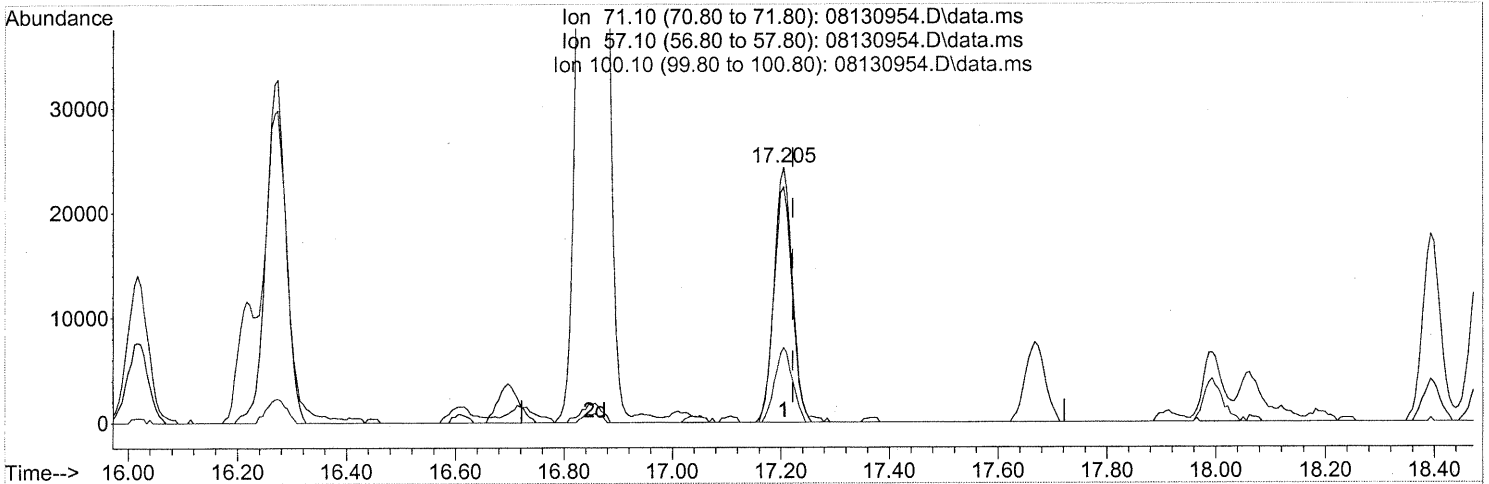
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP em 8/18/09
16.720

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(51) n-Heptane (T)

17.205min (-0.017) 2.18ng

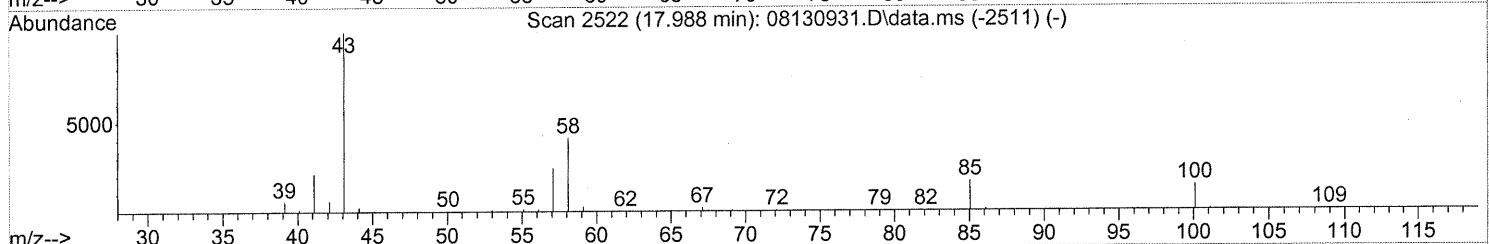
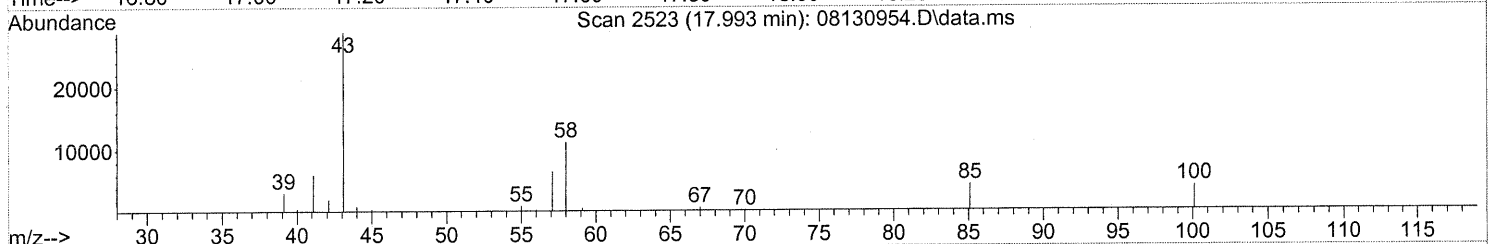
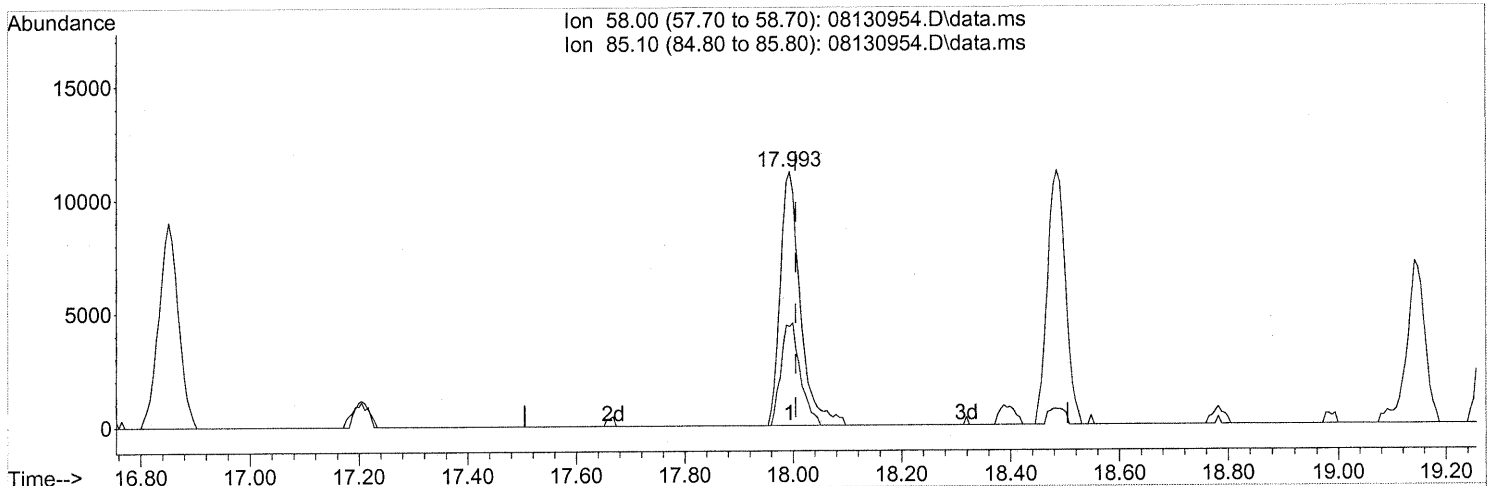
response 56259

Ion	Exp%	Act%
71.10	100	100
57.10	86.80	94.04
100.10	30.70	28.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

17.993min (-0.012) 1.36ng

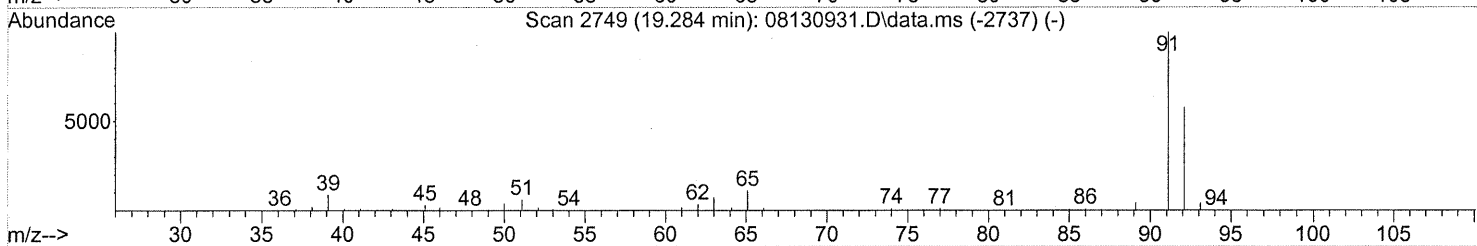
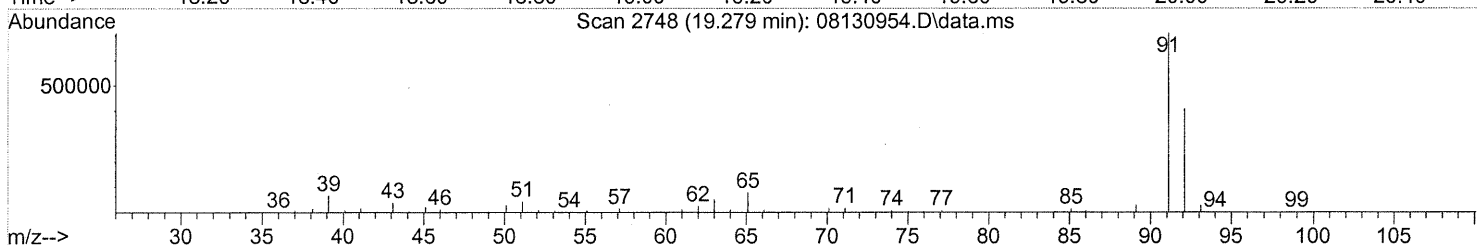
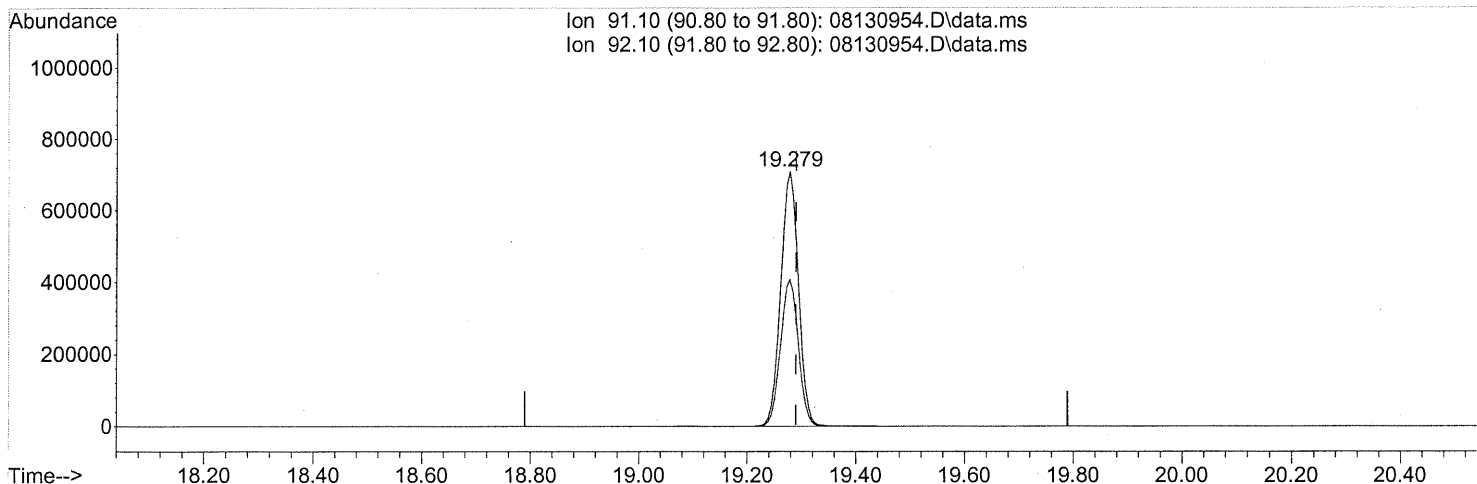
response 28576

Ion	Exp%	Act%
58.00	100	100
85.10	45.40	38.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

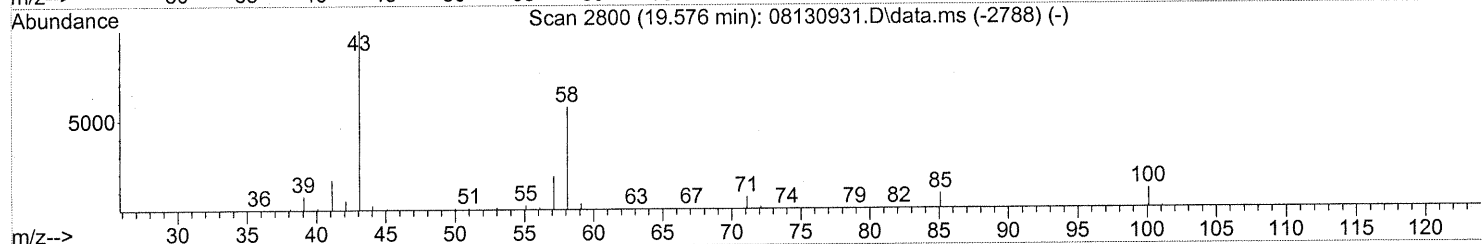
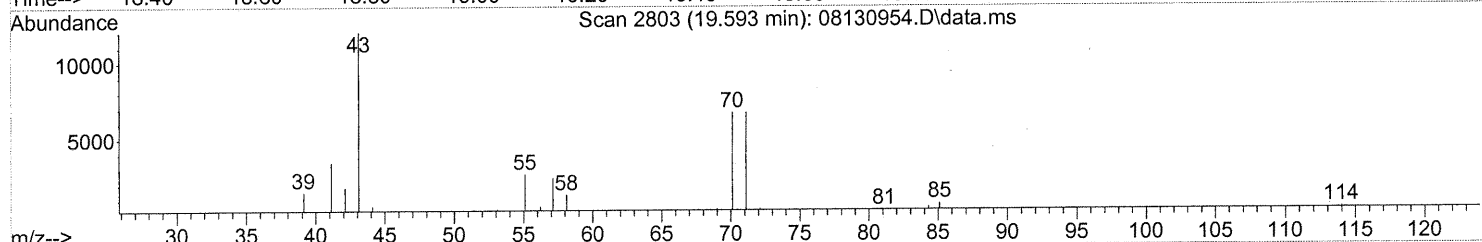
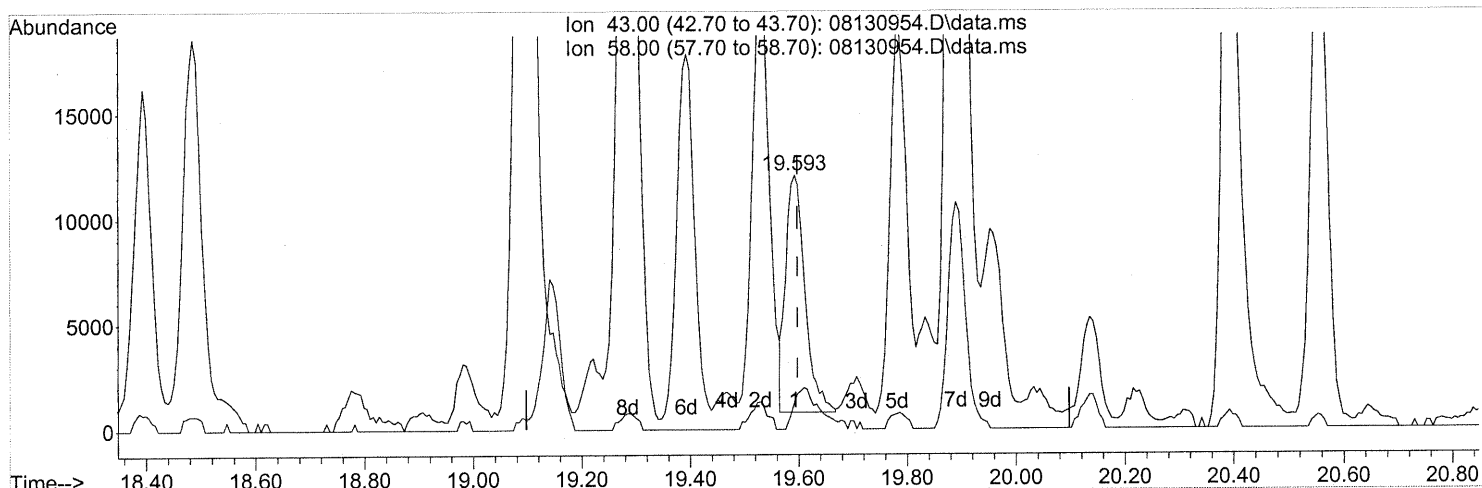
(58) Toluene (T)
 19.279min (-0.011) 16.12ng
 response 1599049

Ion	Exp%	Act%
91.10	100	100
92.10	57.60	57.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(59) 2-Hexanone (T)
 19.593min (-0.005) 0.54ng
 response 27798

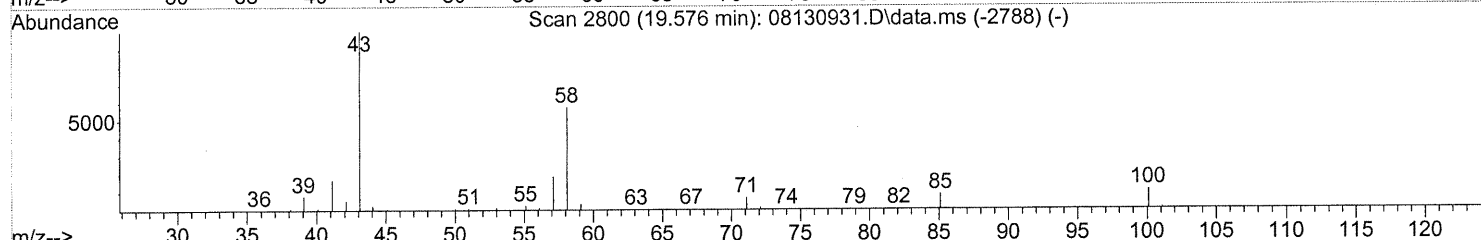
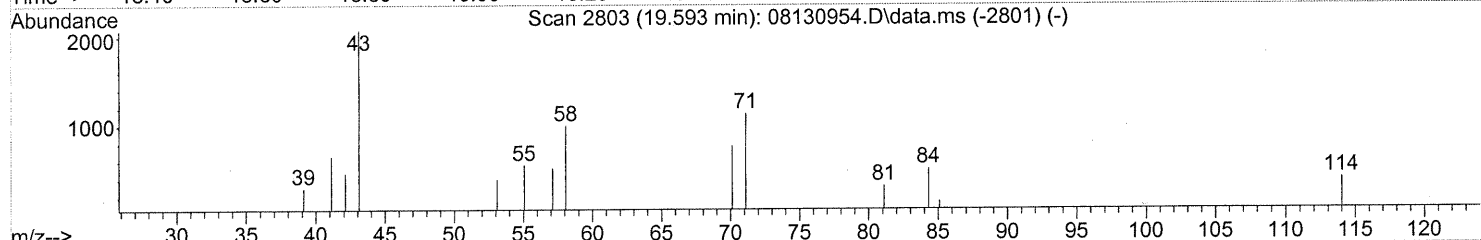
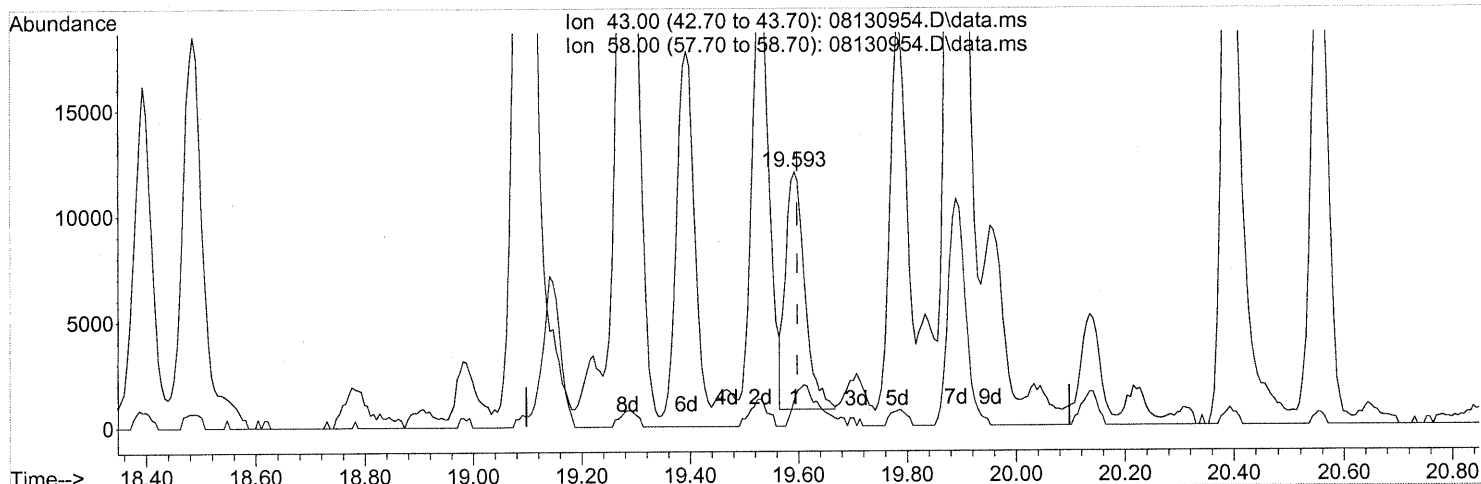
Before subtraction

Ion	Exp%	Act%
43.00	100	100
58.00	57.70	22.56#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(59) 2-Hexanone (T)
 19.593min (-0.005) 0.54ng
 response 27798

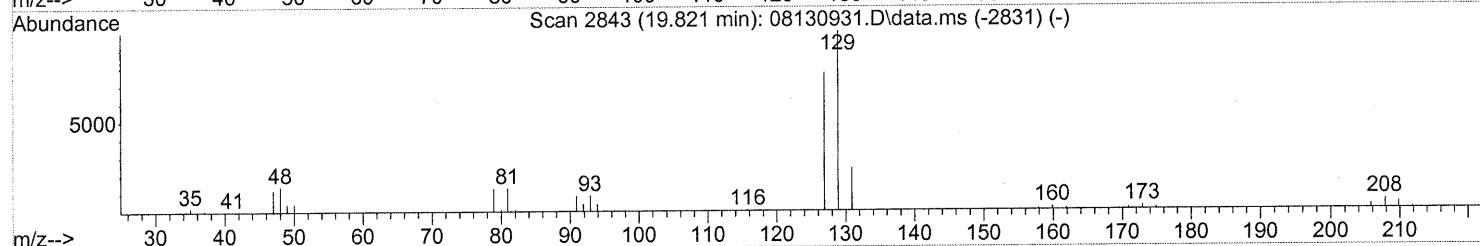
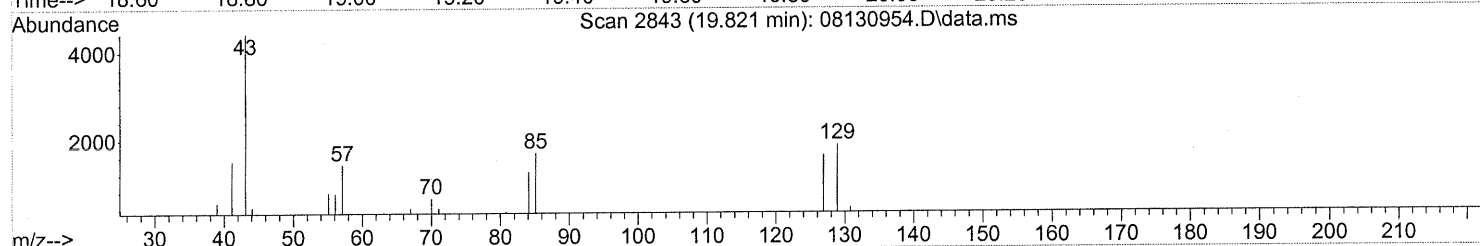
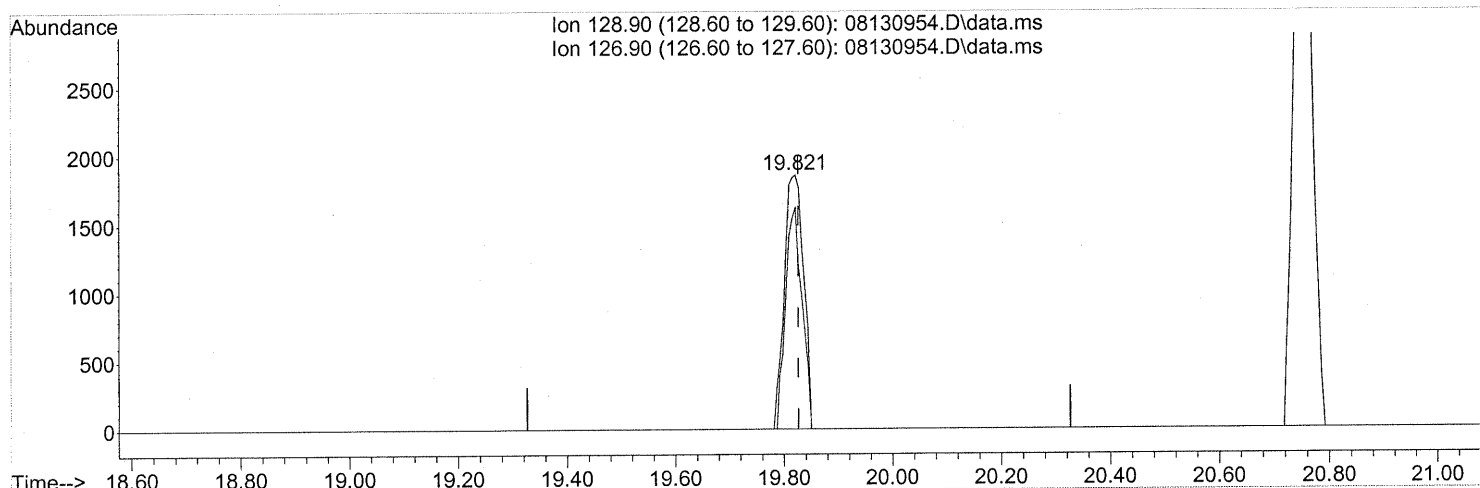
Ion	Exp%	Act%
43.00	100	100
58.00	57.70	22.56#
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction
com 8/18/09
LM 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(60) Dibromochloromethane (T)

19.821min (-0.006) 0.21ng

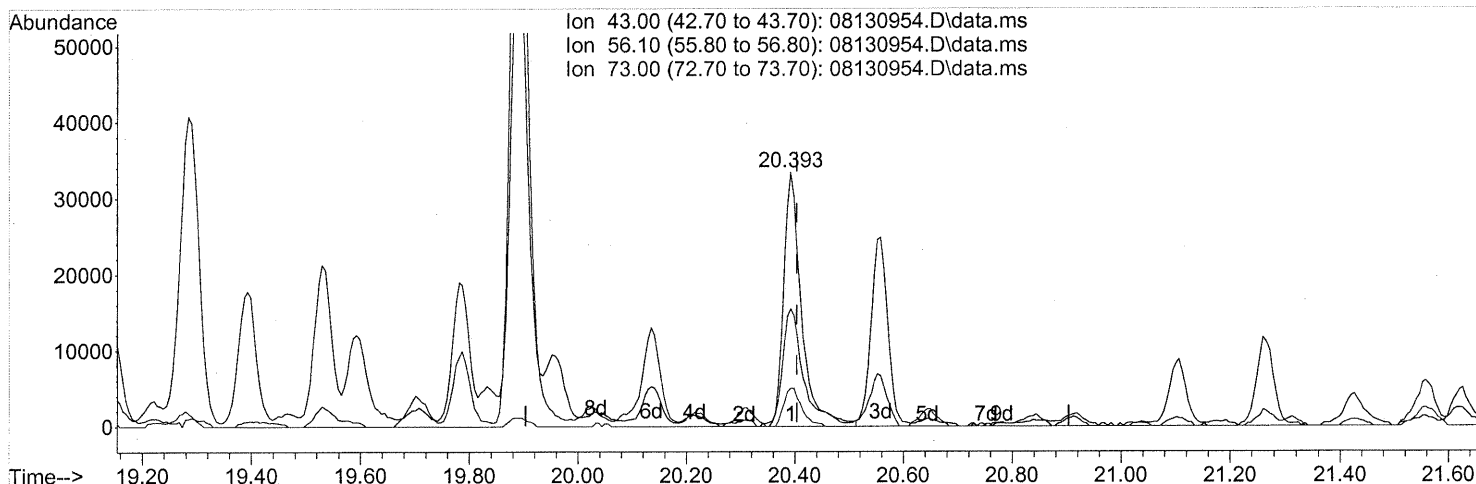
response 4539

Ion	Exp%	Act%
128.90	100	100
126.90	77.60	74.47
0.00	0.00	0.00
0.00	0.00	0.00

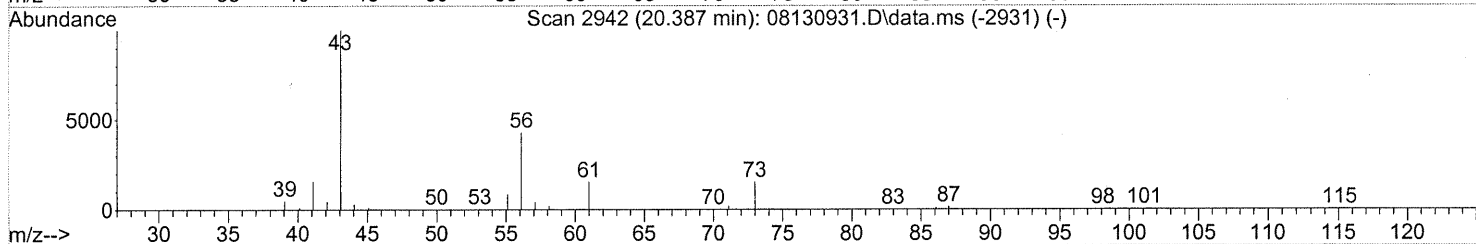
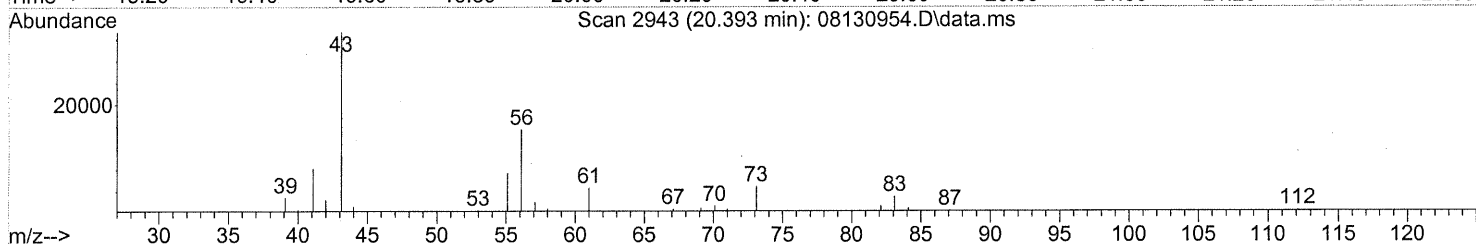
Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Ion 43.00 (42.70 to 43.70): 08130954.D\data.ms
 Ion 56.10 (55.80 to 56.80): 08130954.D\data.ms
 Ion 73.00 (72.70 to 73.70): 08130954.D\data.ms



TIC: 08130954.D\data.ms

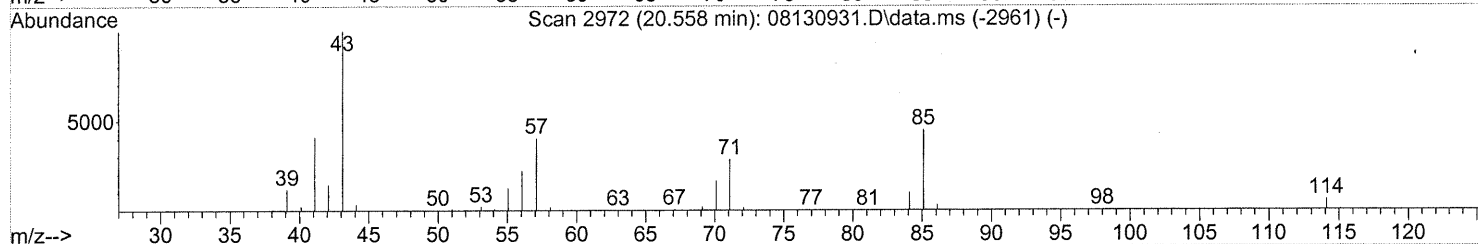
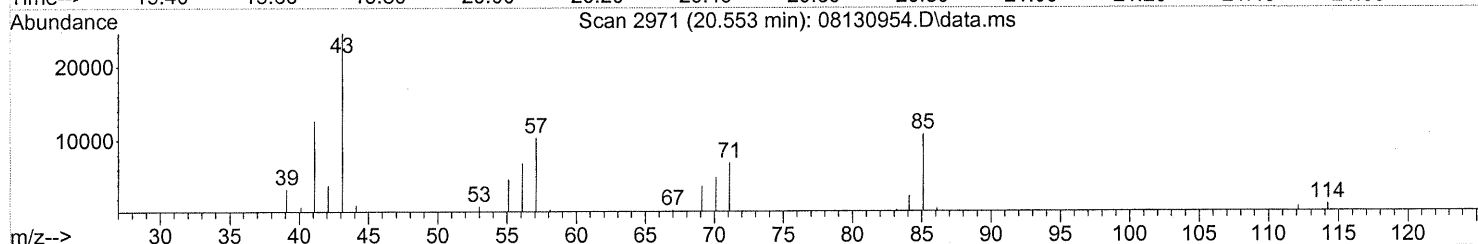
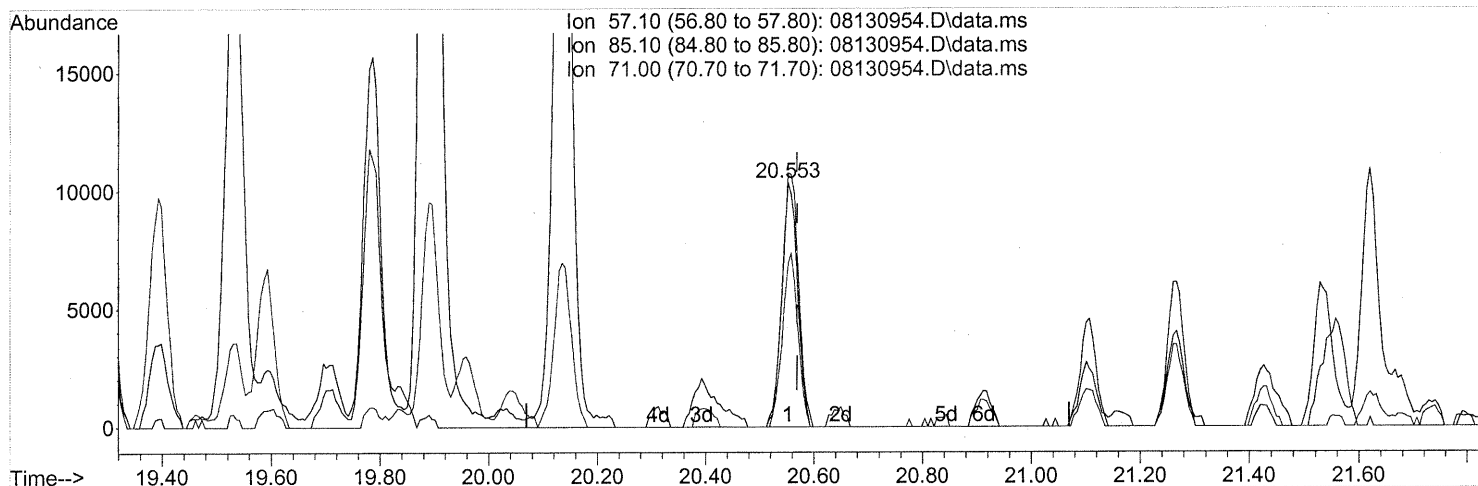
(62) n-Butyl Acetate (T)
 20.393min (-0.011) 1.36ng
 response 76410

Ion	Exp%	Act%
43.00	100	100
56.10	42.90	50.76
73.00	16.90	14.84
0.00	0.00	0.00

Quantitation Report (Qedit).

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(63) n-Octane (T)

20.553min (-0.017) 0.95ng

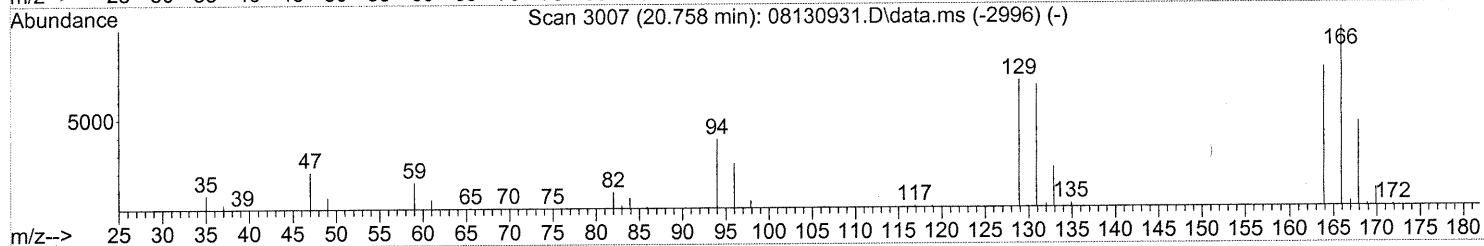
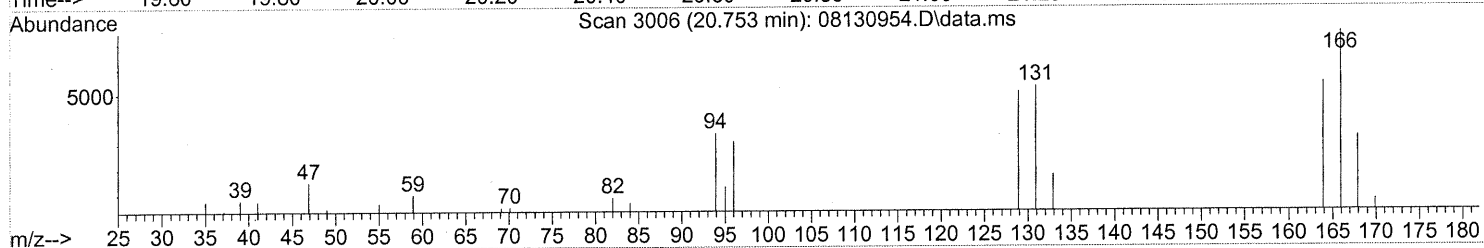
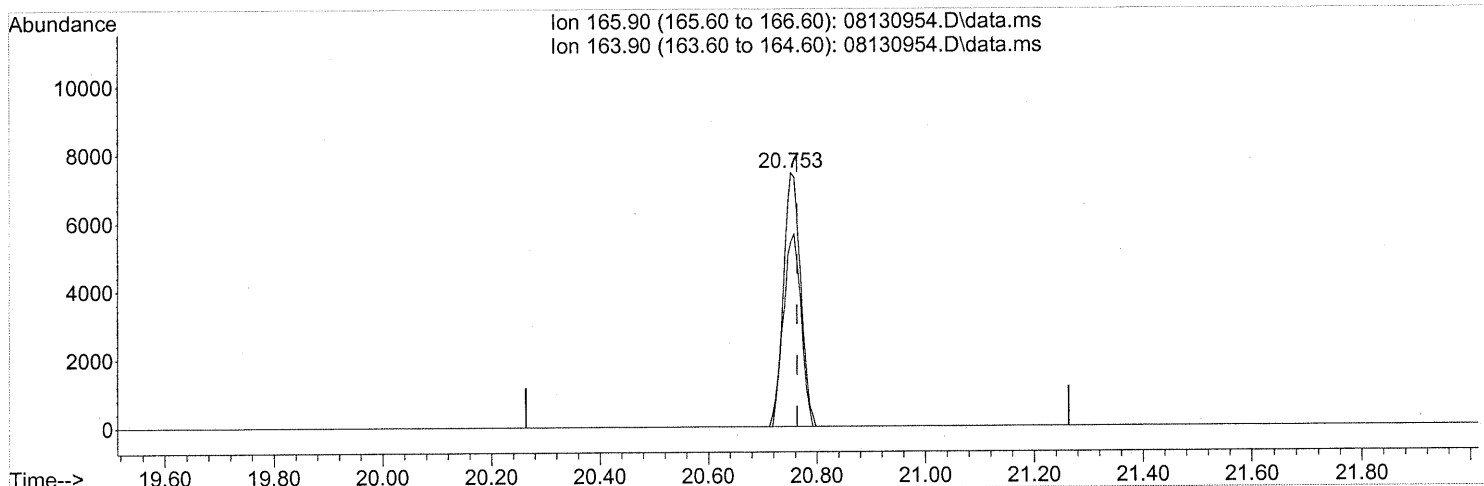
response 20994

Ion	Exp%	Act%
57.10	100	100
85.10	120.60	107.35
71.00	75.10	69.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(64) Tetrachloroethene (T)

20.753min (-0.011) 0.66ng

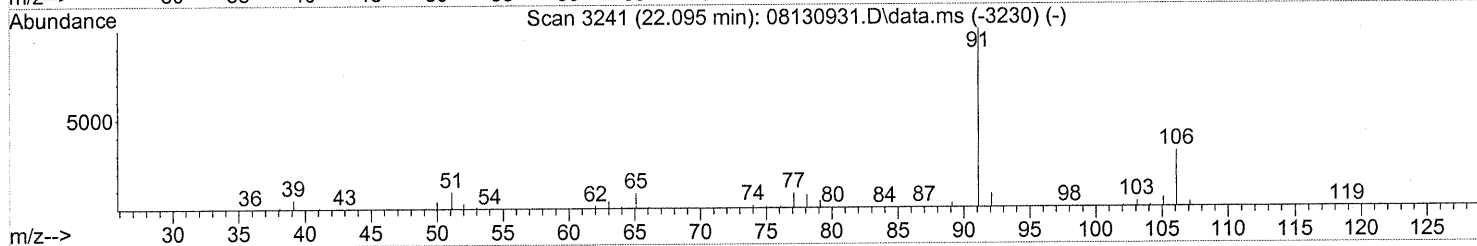
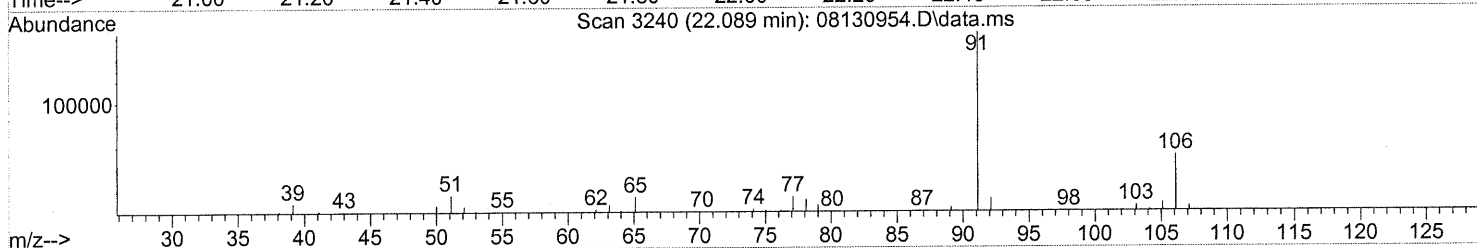
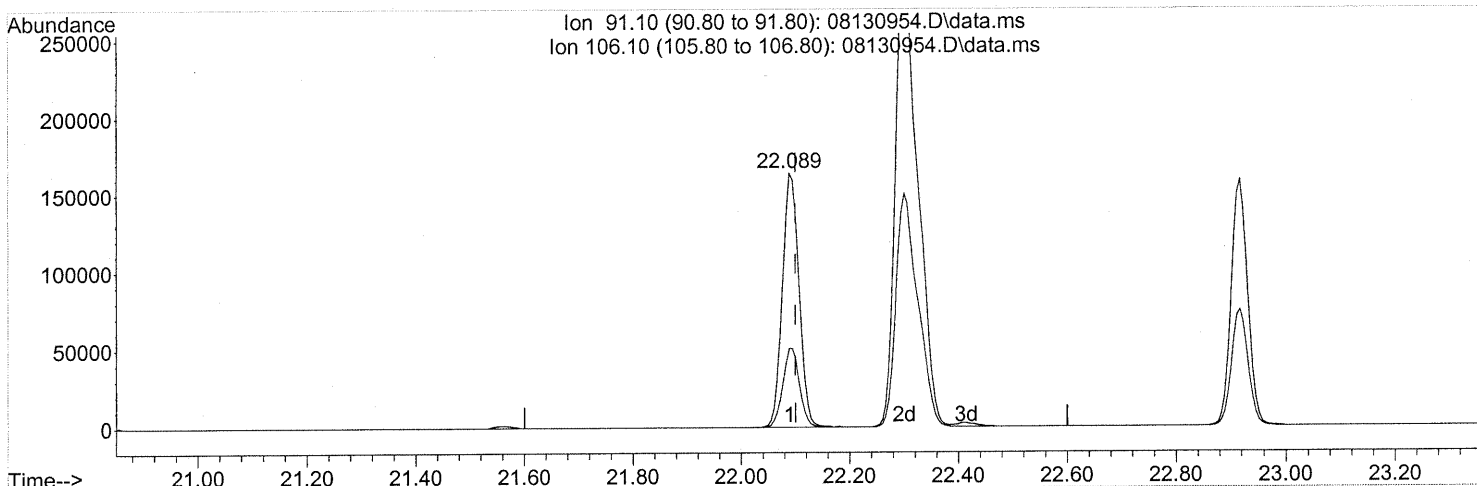
response 16270

Ion	Exp%	Act%
165.90	100	100
163.90	77.80	76.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(66) Ethylbenzene (T)

22.089min (-0.011) 3.24ng

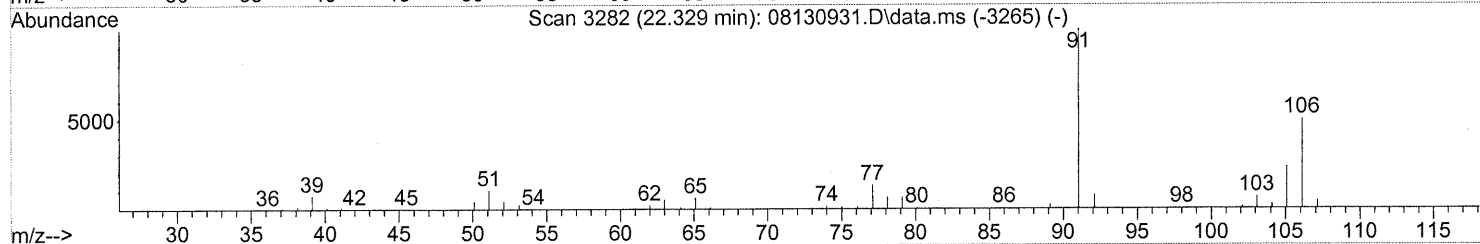
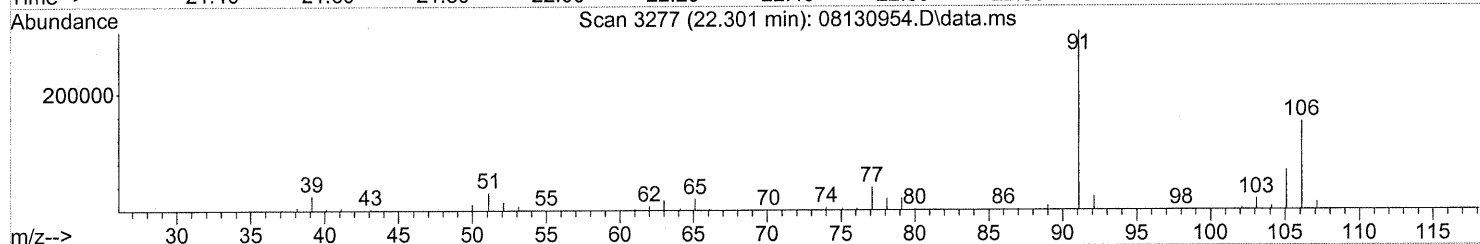
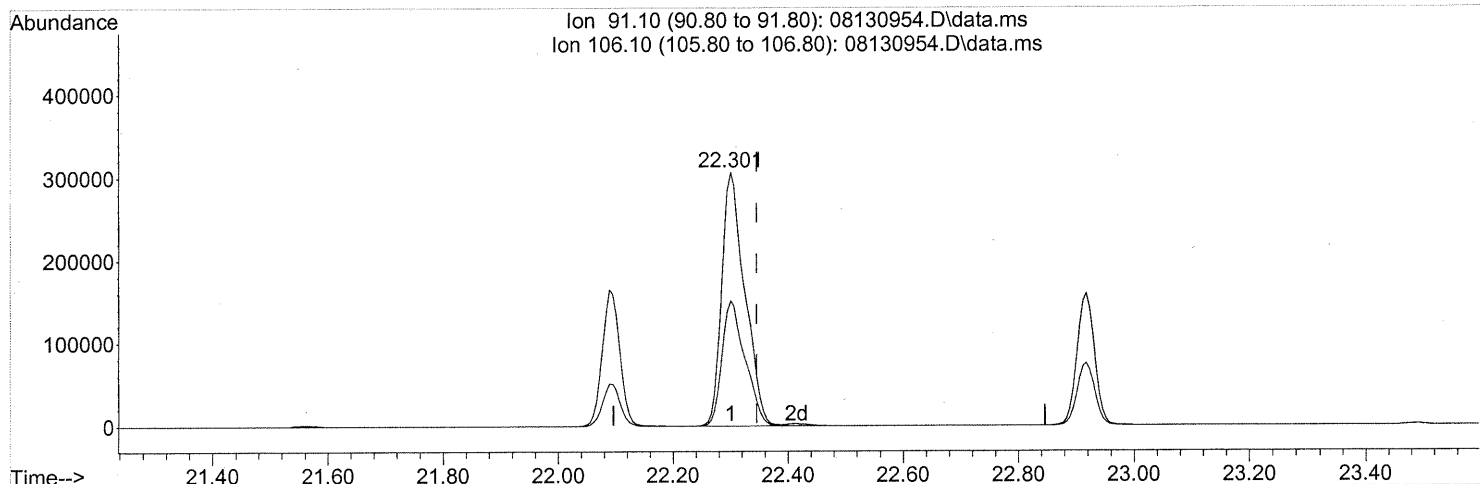
response 347042

Ion	Exp%	Act%
91.10	100	100
106.10	31.80	30.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

22.301min (-0.046) 10.04ng

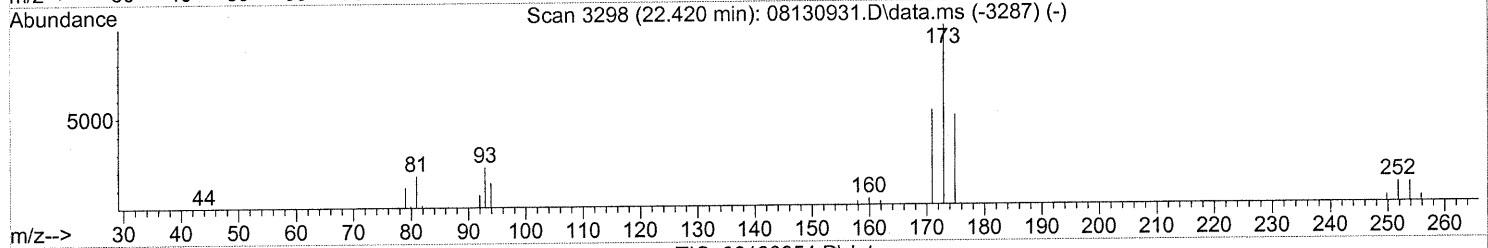
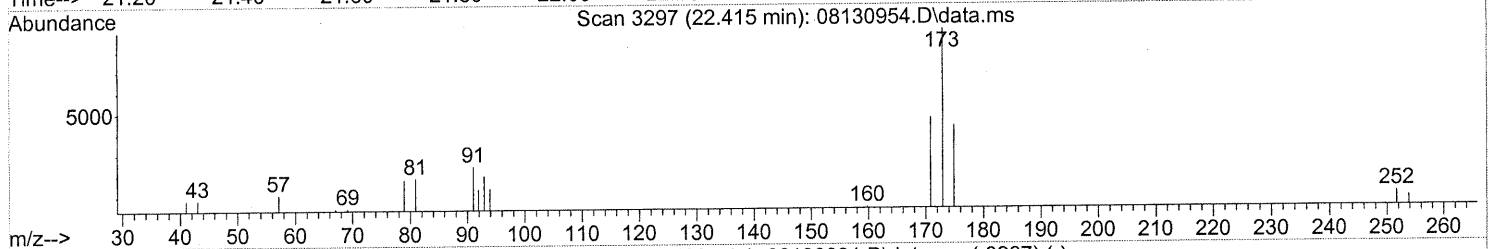
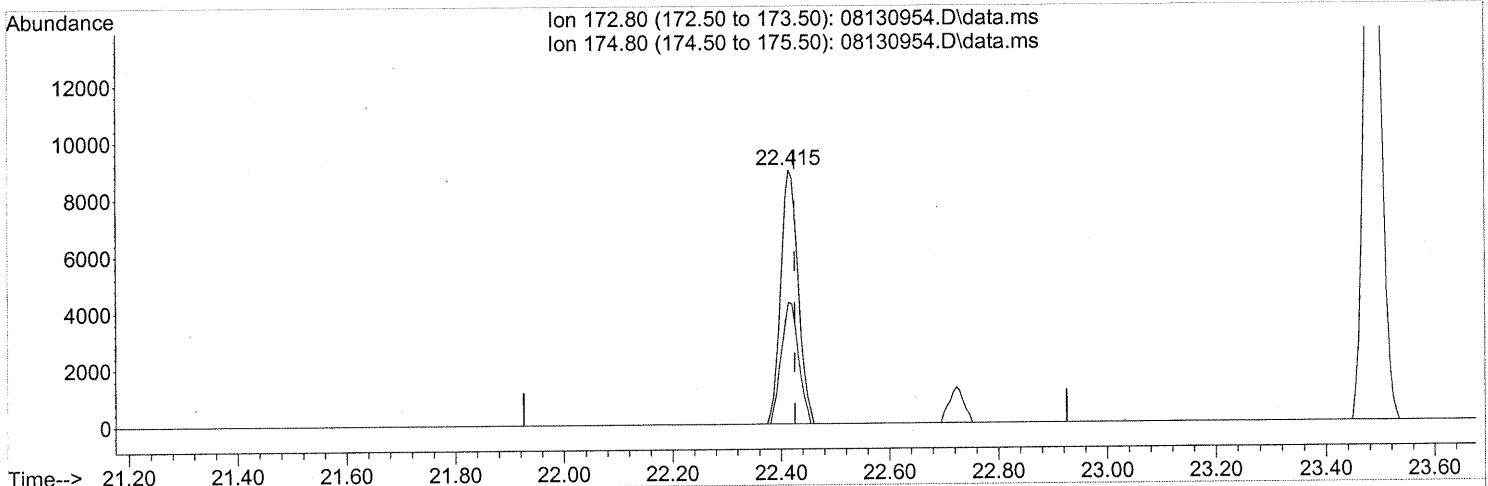
response 852697

Ion	Exp%	Act%
91.10	100	100
106.10	49.90	49.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(68) Bromoform (T)

22.415min (-0.011) 1.08ng

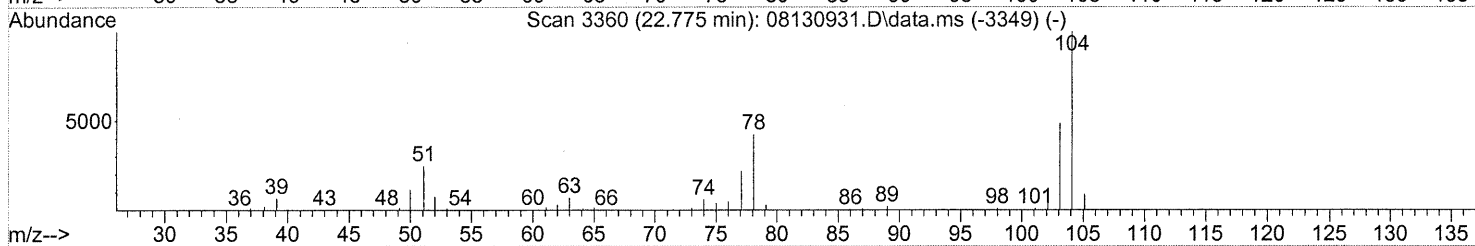
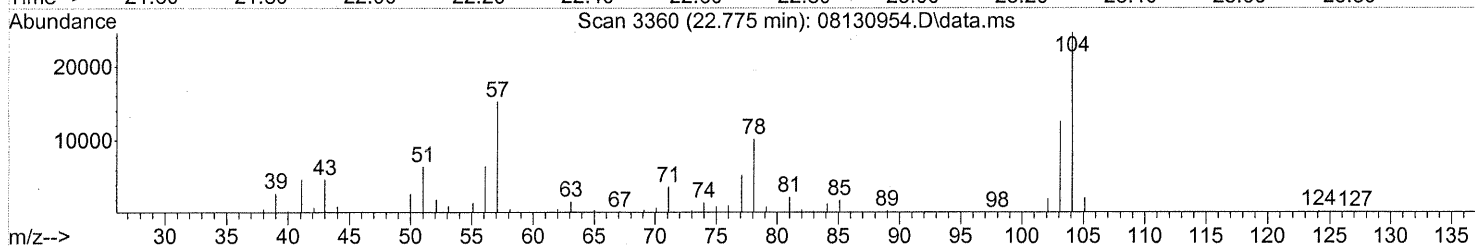
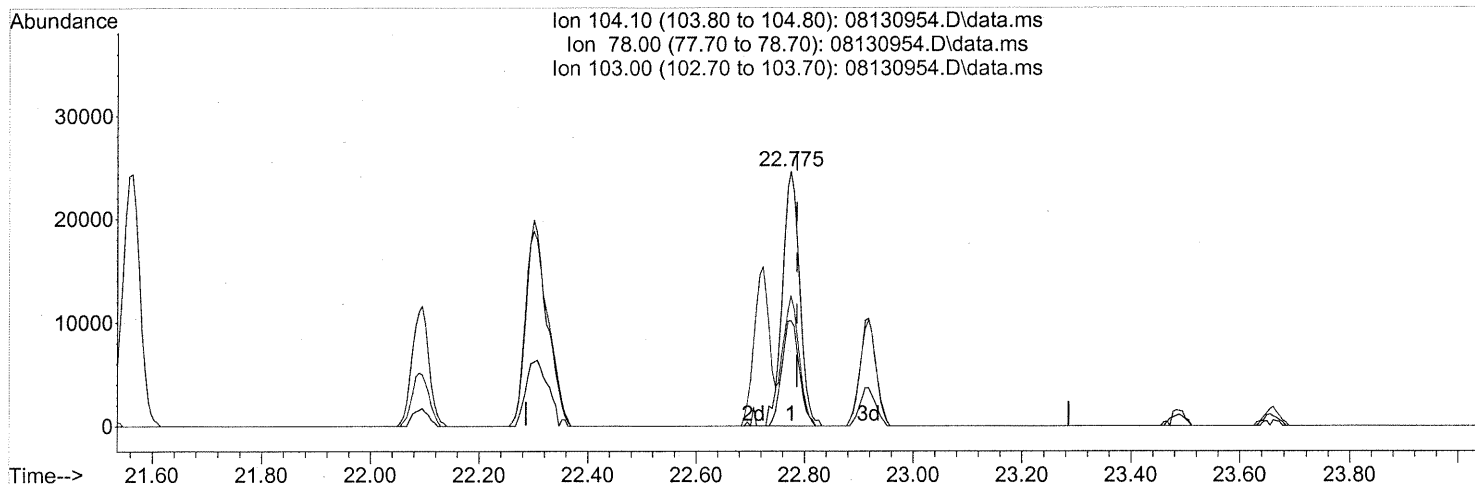
response 19889

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	47.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(69) Styrene (T)

22.775min (-0.011) 0.86ng

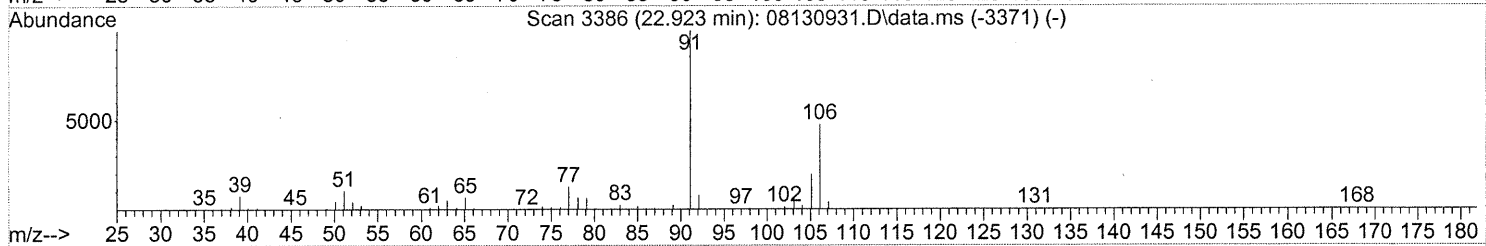
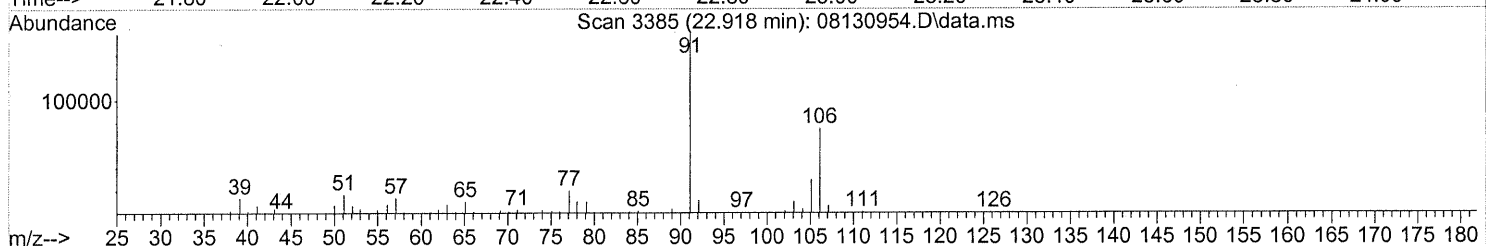
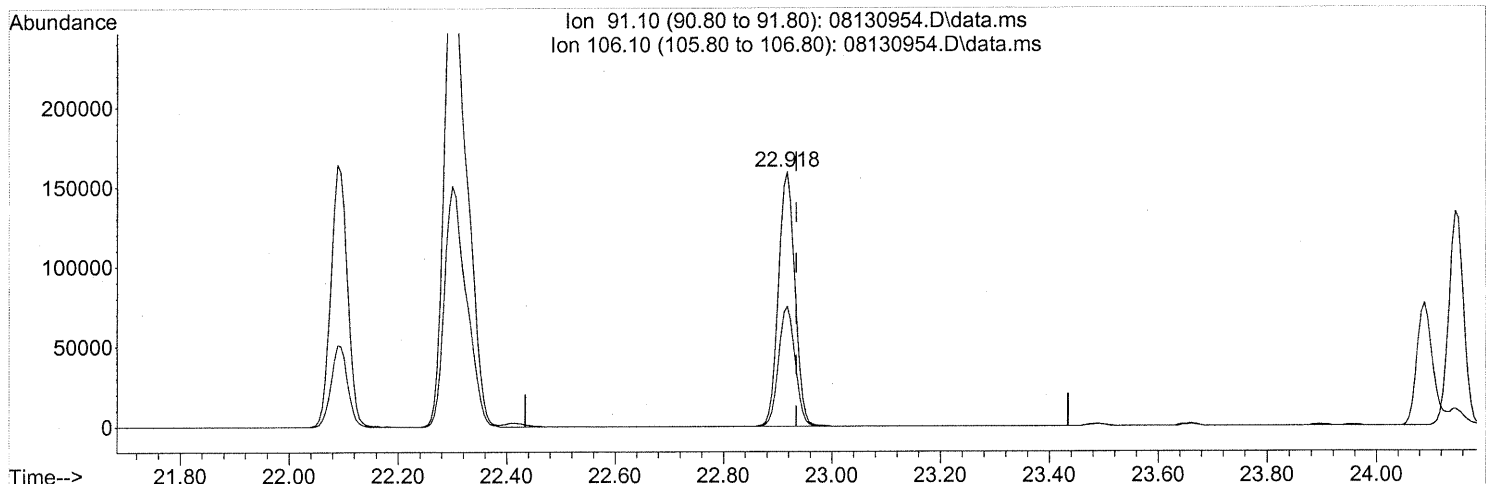
response 54006

Ion	Exp%	Act%
104.10	100	100
78.00	42.30	41.29
103.00	48.70	48.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



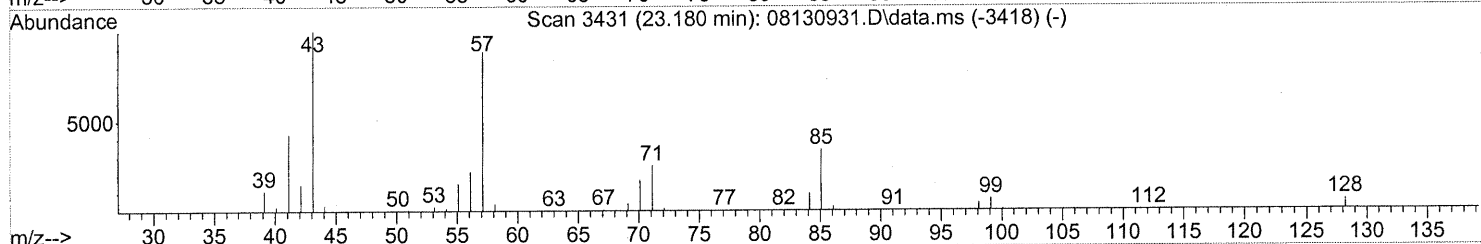
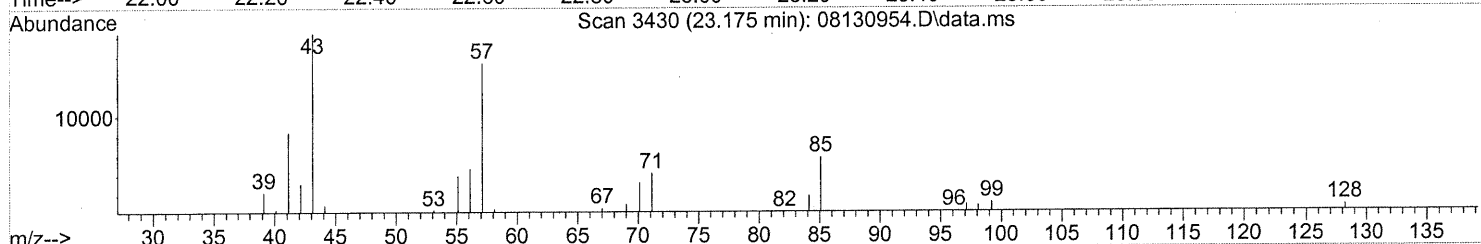
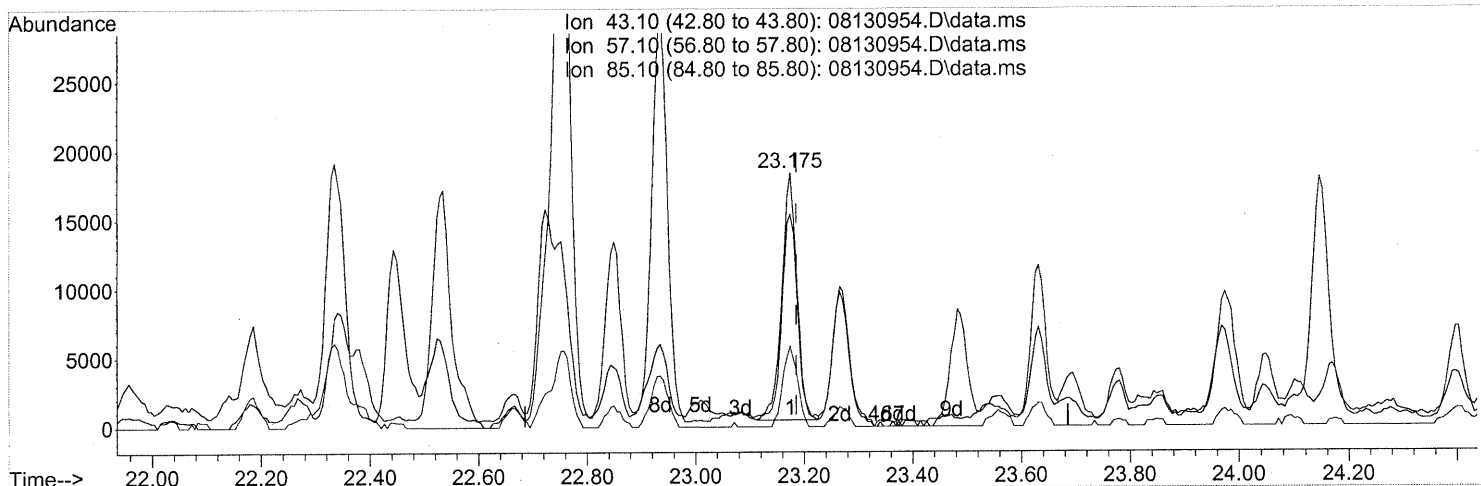
(70) o-Xylene (T)
 22.918min (-0.017) 3.89ng
 response 332514

Ion	Exp%	Act%
91.10	100	100
106.10	47.80	47.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



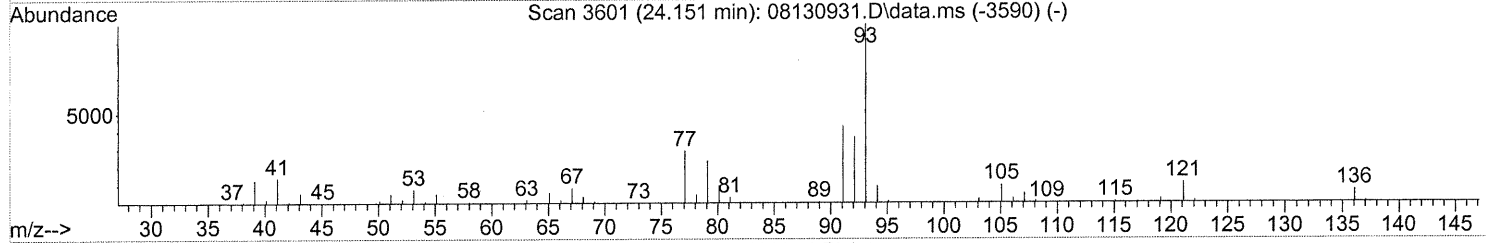
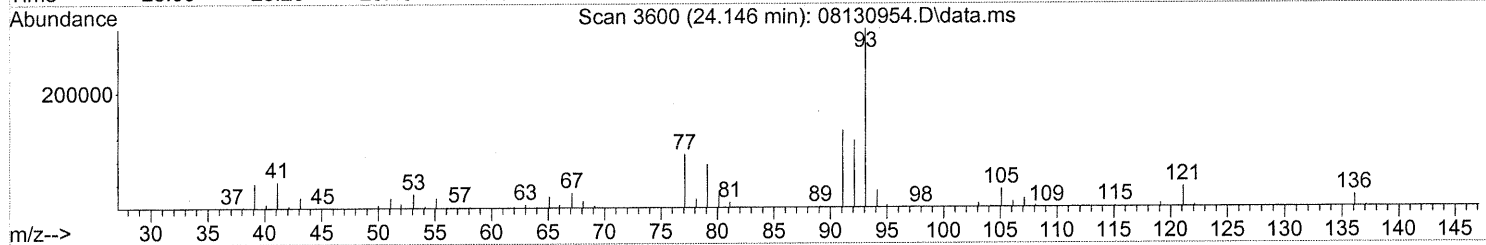
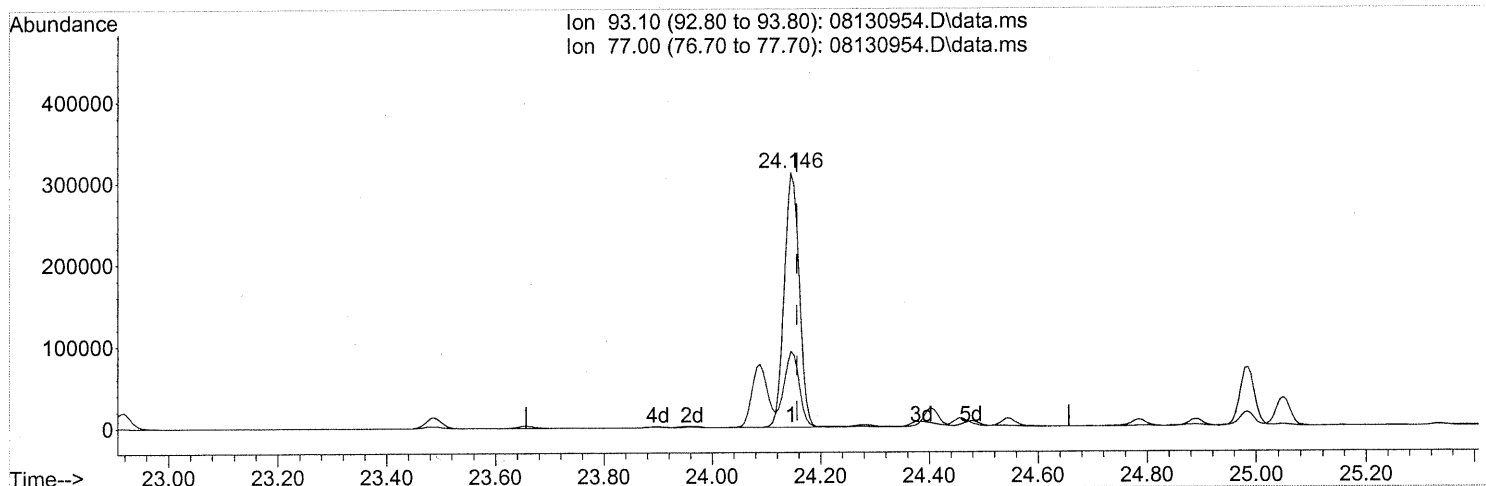
(71) n-Nonane (T)
 23.175min (-0.011) 0.68ng
 response 34854

Ion	Exp%	Act%
43.10	100	100
57.10	94.00	88.96
85.10	38.80	31.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

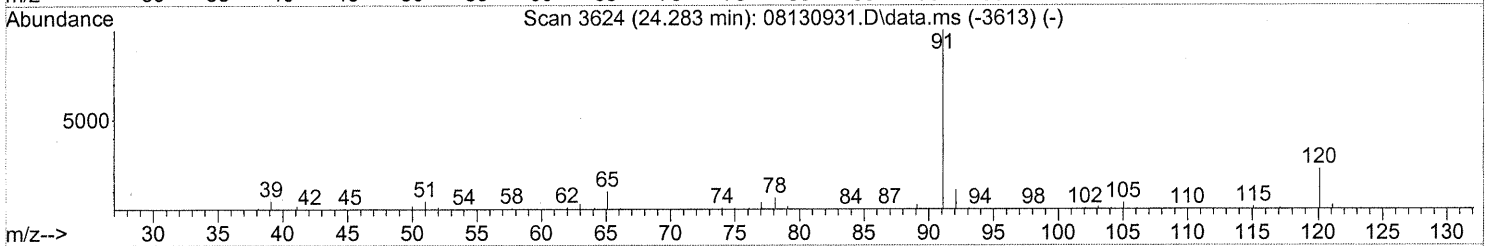
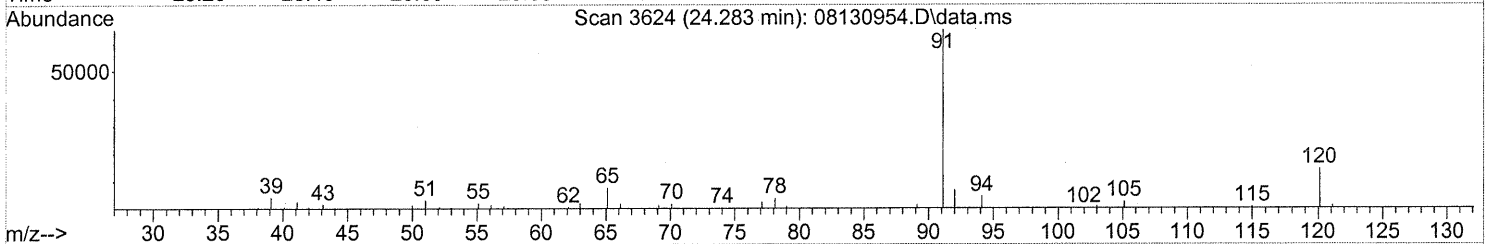
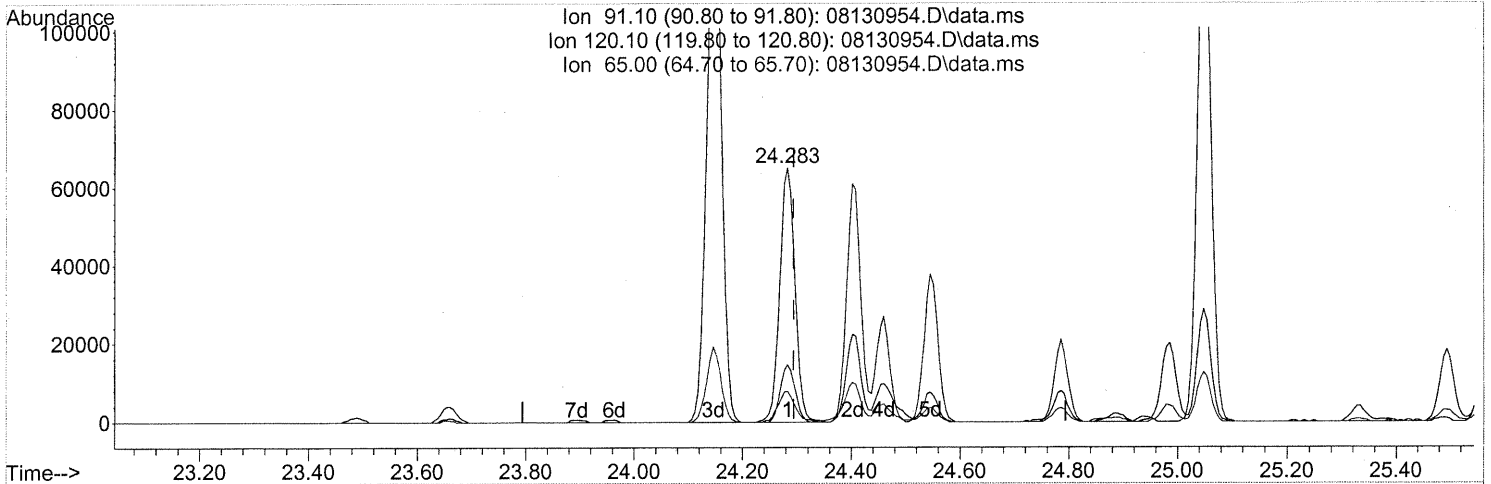
(75) alpha-Pinene (T)
 24.146min (-0.011) 10.92ng
 response 596791

Ion	Exp%	Act%
93.10	100	100
77.00	29.50	30.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(76) n-Propylbenzene (T)

24.283min (-0.011) 0.91ng

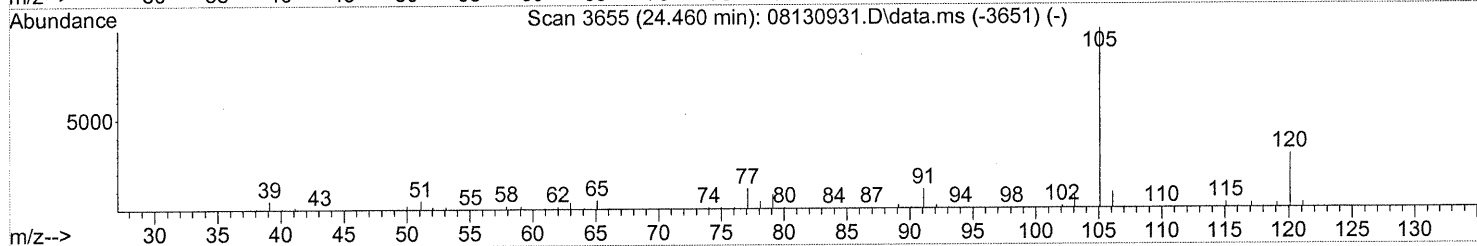
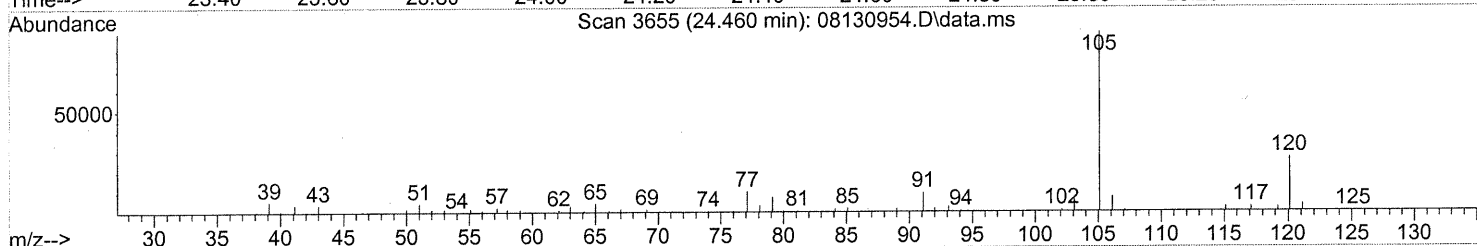
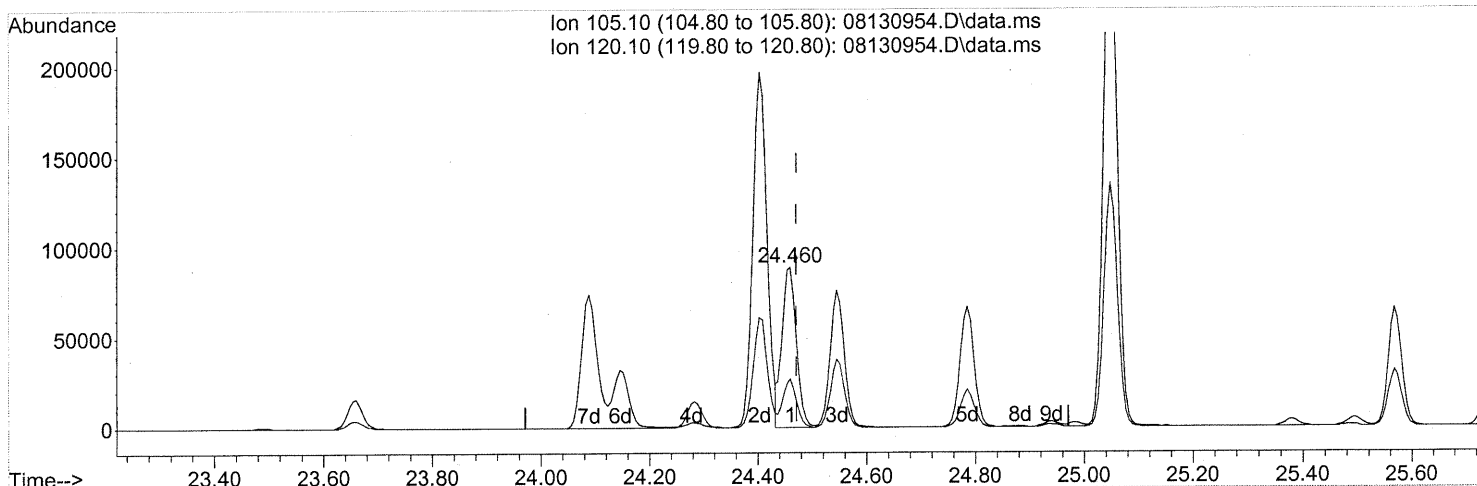
response 125162

Ion	Exp%	Act%
91.10	100	100
120.10	22.90	21.74
65.00	10.20	13.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

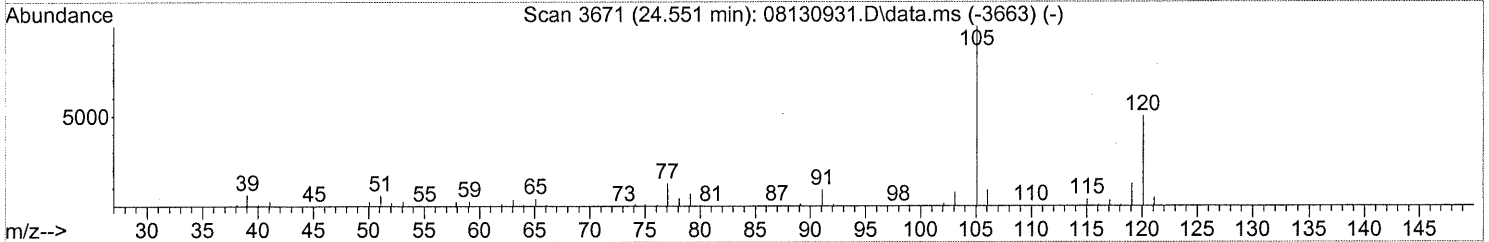
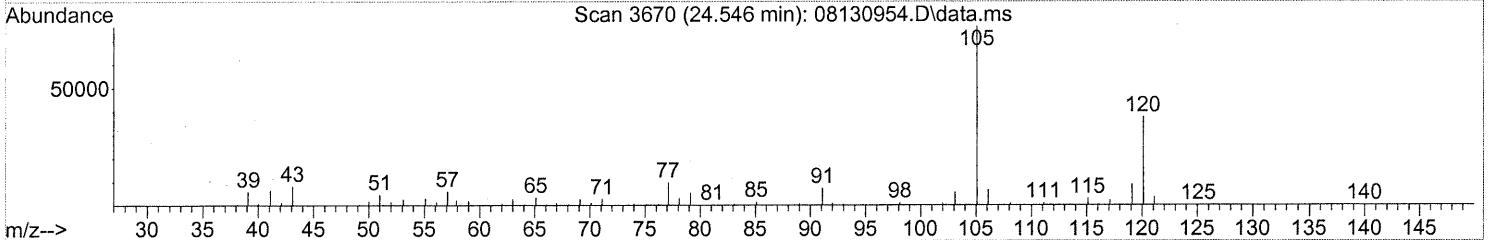
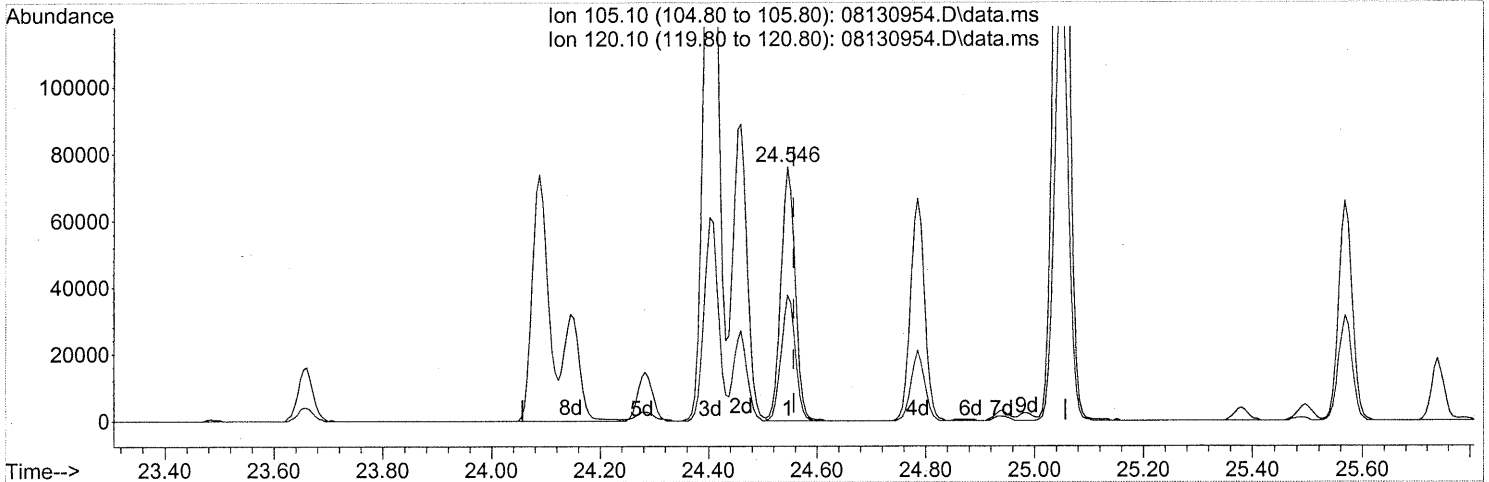
(78) 4-Ethyltoluene (T)
 24.460min (-0.011) 1.56ng
 response 162935

Ion	Exp%	Act%
105.10	100	100
120.10	29.80	27.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

24.546min (-0.011) 1.60ng

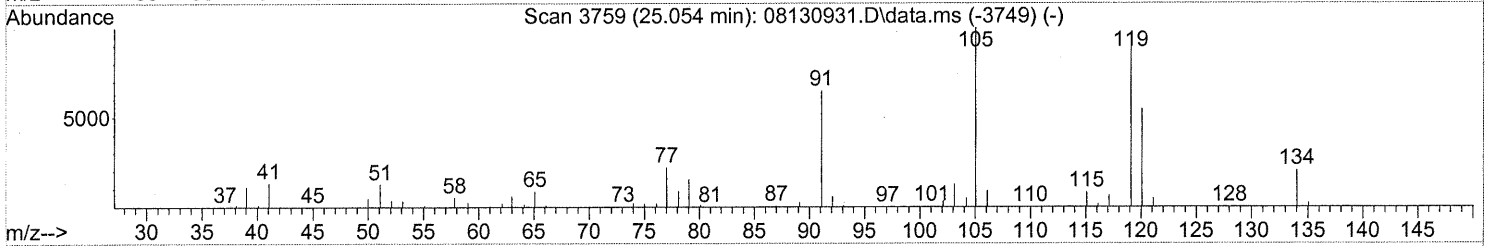
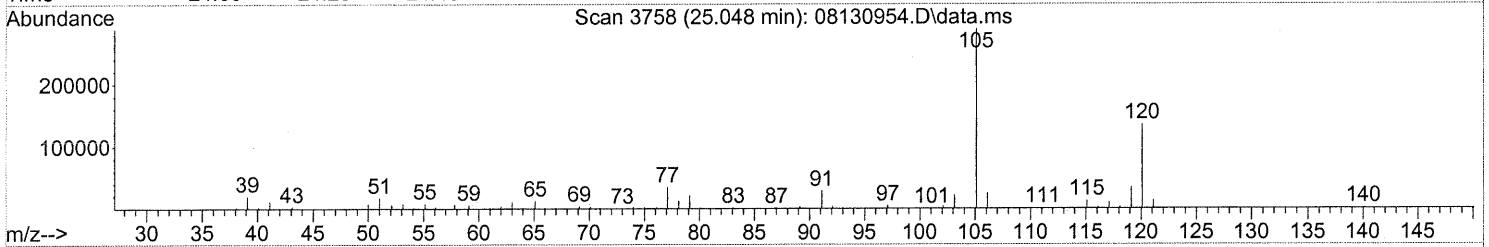
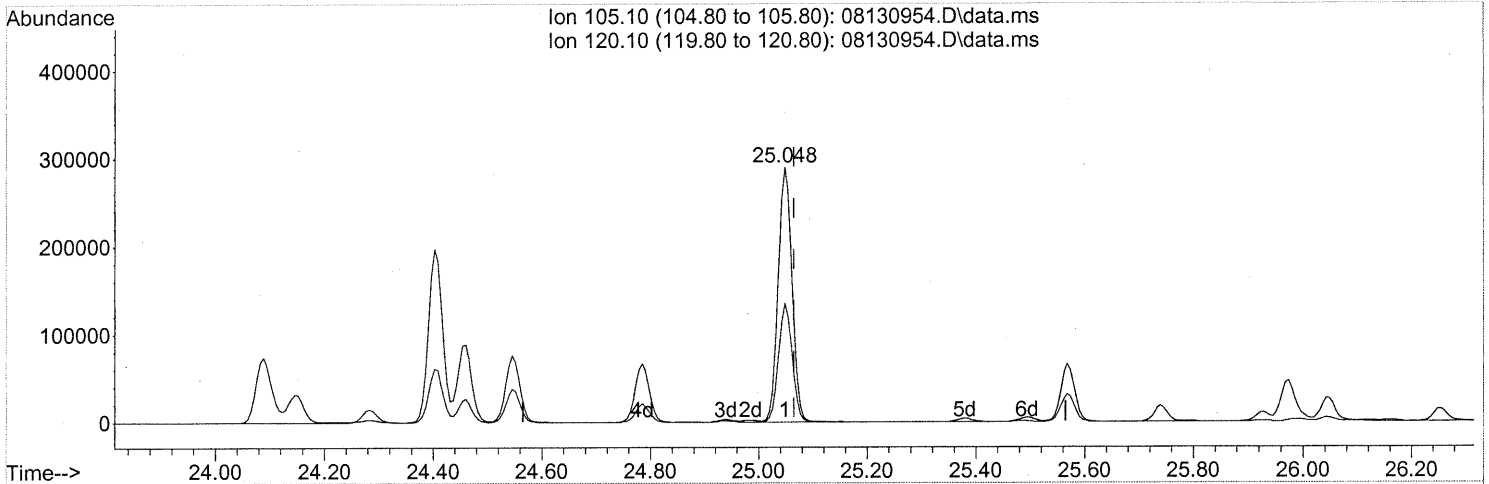
response 137686

Ion	Exp%	Act%
105.10	100	100
120.10	49.50	48.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

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

25.048min (-0.017) 5.59ng

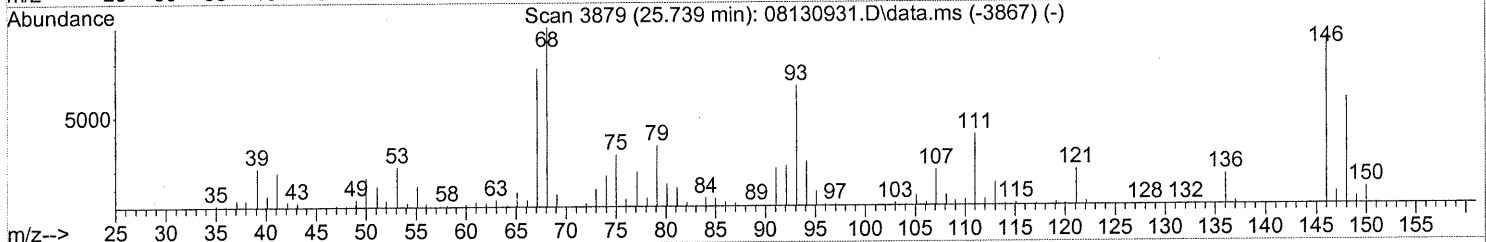
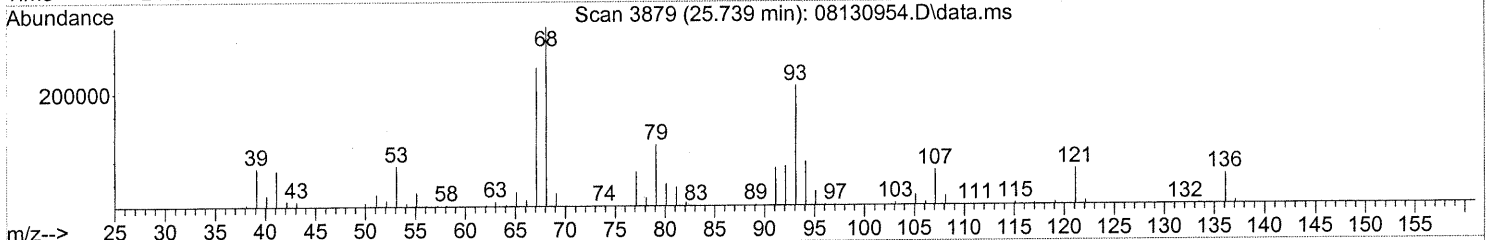
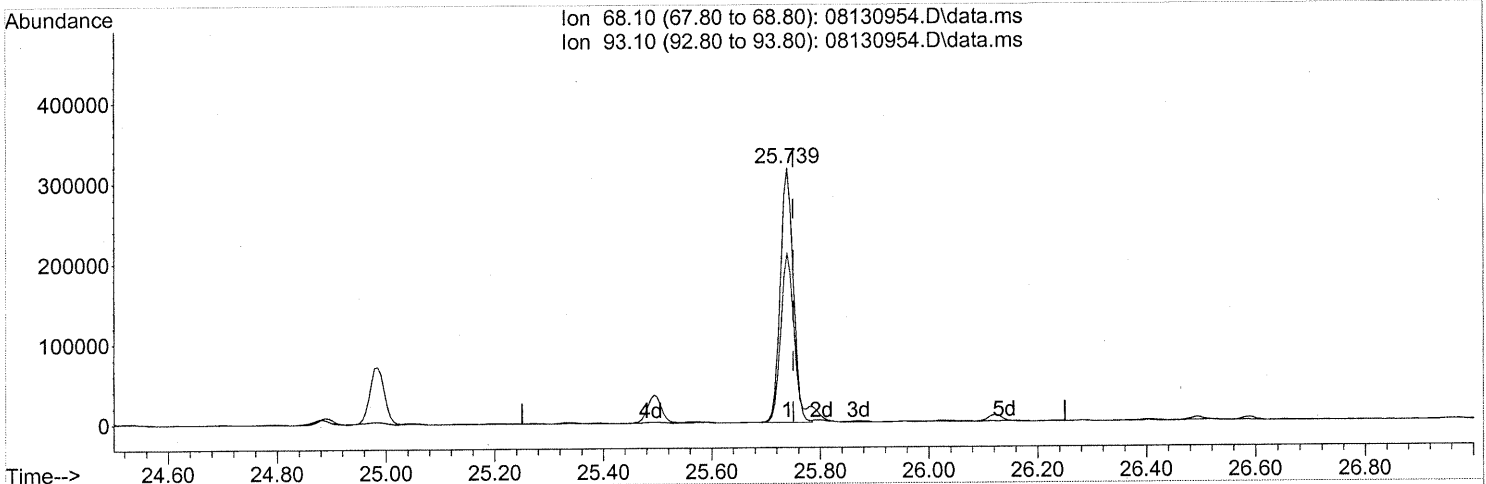
response 512277

Ion	Exp%	Act%
105.10	100	100
120.10	53.80	45.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130954.D\data.ms

(91) d-Limonene (T)

25.739min (-0.011) 13.97ng

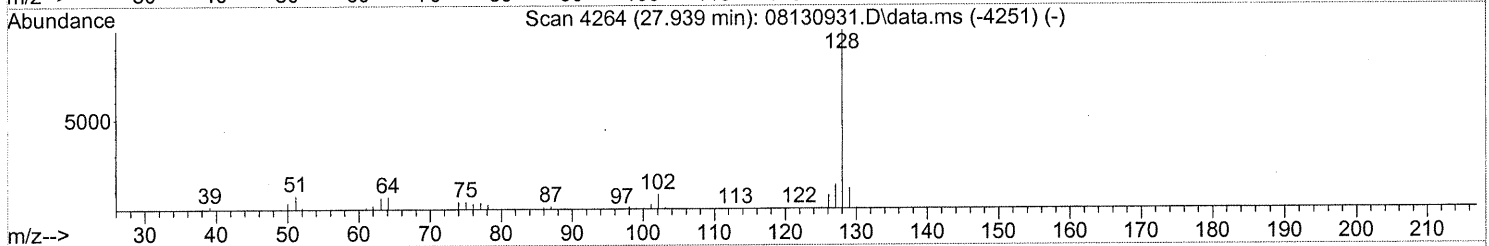
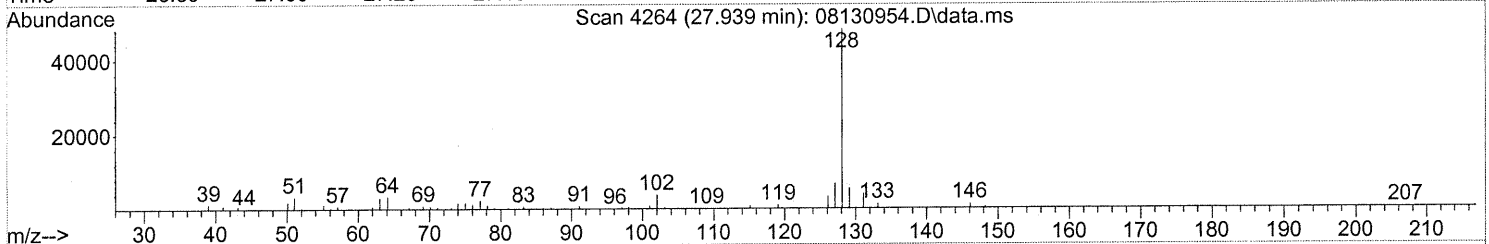
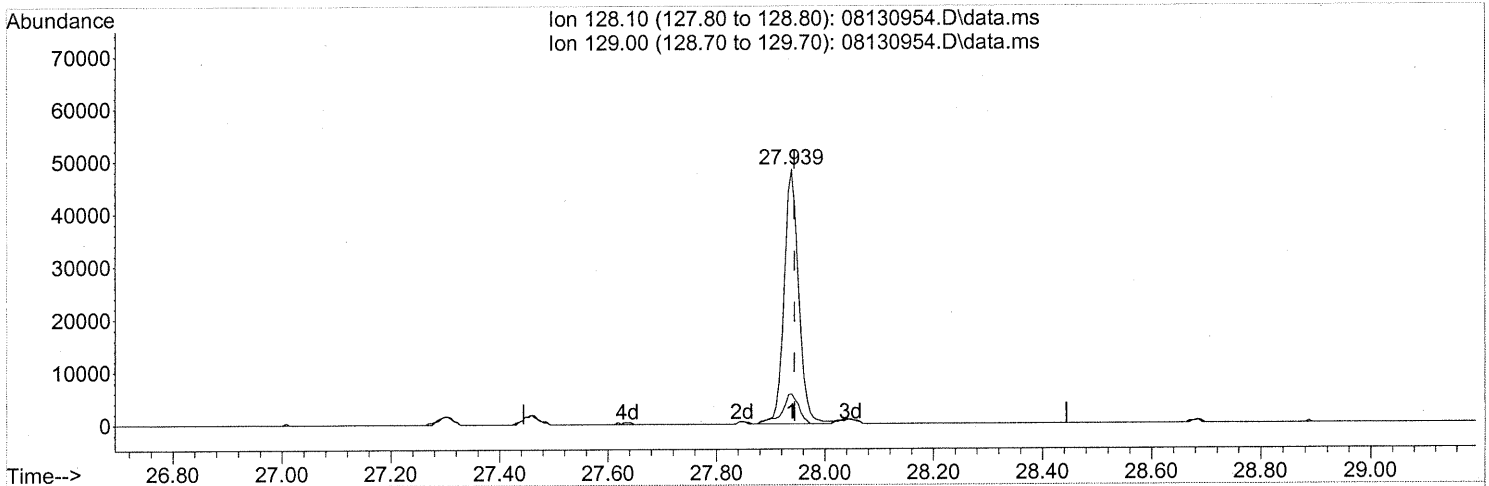
response 523599

Ion	Exp%	Act%
68.10	100	100
93.10	71.90	73.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130954.D
 Acq On : 14 Aug 2009 22:34
 Operator : EM
 Sample : P0902720-007 (1000ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:06 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



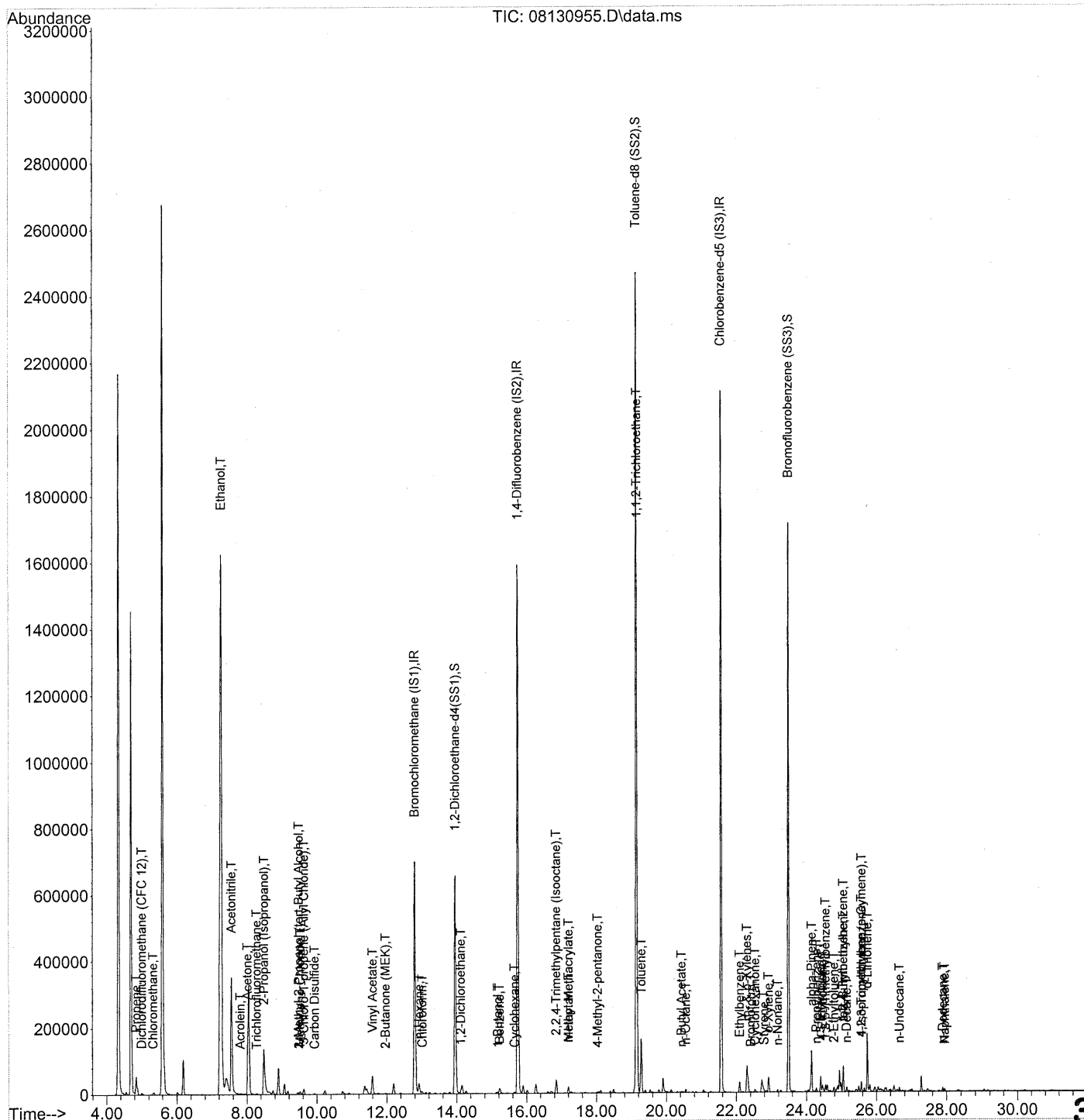
TIC: 08130954.D\data.ms

(95) Naphthalene (T)
 27.939min (-0.006) 0.73ng
 response 90005

Ion	Exp%	Act%
128.10	100	100
129.00	11.00	13.46
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:21:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:21:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.79	130	371214	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1889449	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	925089	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	656932	25.028	ng	-0.03 ✓
Spiked Amount	25.000		Recovery	=	100.12%	
57) Toluene-d8 (SS2)	19.14	98	2196161	24.972	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	99.88%	
73) Bromofluorobenzene (SS3)	23.49	174	624113	25.059	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	100.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	20745	0.637	ng	91
3) Dichlorodifluoromethan...	5.00	85	5849	0.126	ng	# 93
4) Chloromethane	5.32	50	5071	0.117	ng	89
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	7.26	45	3556014m	174.091	ng	
11) Acetonitrile	7.55	41	528640	10.605	ng	99
12) Acrolein	7.81	56	1720	0.129	ng	91
13) Acetone	8.01	58	80773	3.886	ng	# 1
14) Trichlorofluoromethane	8.28	101	3523	0.089	ng	95
15) 2-Propanol (Isopropanol)	8.48	45	335164	5.888	ng	95
16) Acrylonitrile	8.74	53	690	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.48	59	9532	0.165	ng	# 73
19) Methylene Chloride	9.52	84	4897	0.189	ng	87
20) 3-Chloro-1-propene (Al...	9.62	41	4739	0.136	ng	# 34
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.93	76	4805	0.053	ng	# 75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.60	86	1785	0.397	ng	# 1
27) 2-Butanone (MEK)	11.96	72	820	0.057	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	12.92	57	19476	0.425	ng	9332

Em 8/18/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:21:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	6070	0.158	ng	100
34) Tetrahydrofuran (THF)	13.64	72	456	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	14.12	62	11767	0.401	ng	99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.17	56	5743	0.235	ng	95
41) Benzene	15.22	78	19491	0.192	ng	98
42) Carbon Tetrachloride	15.45	117	943	N.D.		
43) Cyclohexane	15.65	84	2244	0.057	ng	# 63
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.72	83	760	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...	16.85	57	49061	0.420	ng	100
50) Methyl Methacrylate	17.20	100	1352	0.133	ng	# 1
51) n-Heptane	17.20	71	5193	0.192	ng	93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	18.03	58	1333	0.061	ng	# 31
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	19.16	97	169661	7.815	ng	# 8
58) Toluene	19.28	91	152525	1.431	ng	99
59) 2-Hexanone	19.59	43	2051	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.43	43	5399	0.089	ng	# 83
63) n-Octane	20.55	57	1811	0.076	ng	86
64) Tetrachloroethene	20.76	166	1222	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.09	91	32671	0.284	ng	97
67) m- & p-Xylenes	22.30	91	81222	0.890	ng	99
68) Bromoform	22.41	173	1424	0.072	ng	94
69) Styrene	22.79	104	4870	0.072	ng	91
70) o-Xylene	22.92	91	31871	0.347	ng	98
71) n-Nonane	23.17	43	3162	0.057	ng	87
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.66	105	3060	N.D.		
75) alpha-Pinene	24.15	93	55992	0.953	ng	# 56
76) n-Propylbenzene	24.28	91	11877	0.081	ng	97
77) 3-Ethyltoluene	24.40	105	34874	0.313	ng	97
78) 4-Ethyltoluene	24.46	105	15743	0.140	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	13614	0.147	ng	95

333

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 18 10:21:26 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

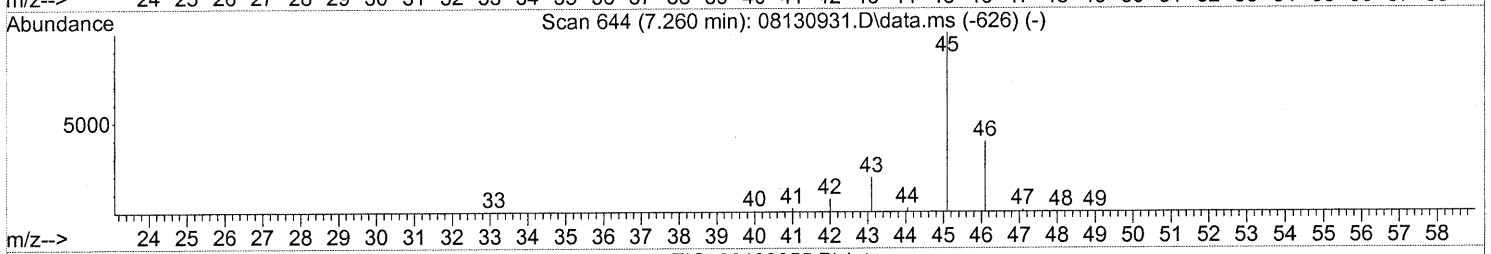
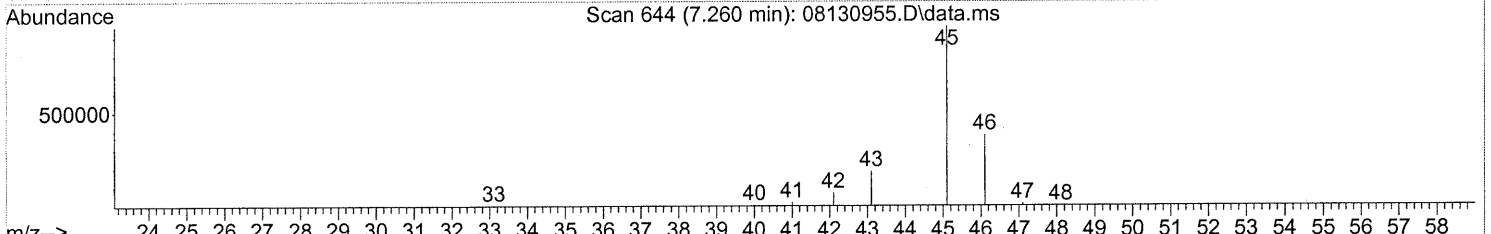
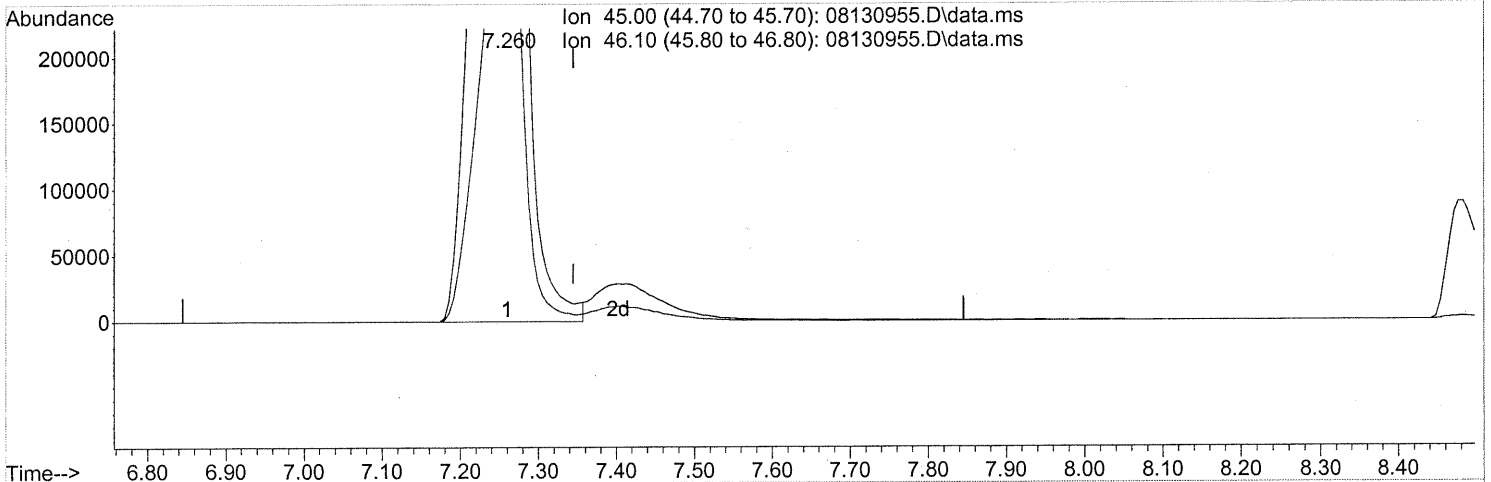
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.95	118	1020	N.D.		
81) 2-Ethyltoluene	24.79	105	11408	0.099	ng	96
82) 1,2,4-Trimethylbenzene	25.05	105	48536	0.493	ng	88
83) n-Decane	25.15	57	5810	0.101	ng	87
84) Benzyl Chloride	25.33	91	530	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	25.37	105	543	N.D.		
88) 4-Isopropyltoluene (p-...	25.57	119	8094	0.065	ng	91
89) 1,2,3-Trimethylbenzene	25.57	105	10766	0.108	ng	95
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	25.74	68	47666	1.184	ng	97
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	5705	0.096	ng	82
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.94	128	8619	0.065	ng	97
96) n-Dodecane	27.89	57	4283	0.065	ng	88
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.53	55	3600	0.107	ng	# 81
99) tert-Butylbenzene	25.05	119	5909	0.061	ng	# 54
100) n-Butylbenzene	26.06	91	3615	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:10 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130955.D\data.ms

(10) Ethanol (T)
 7.260min (-0.086) 165.33ng
 response 3377016

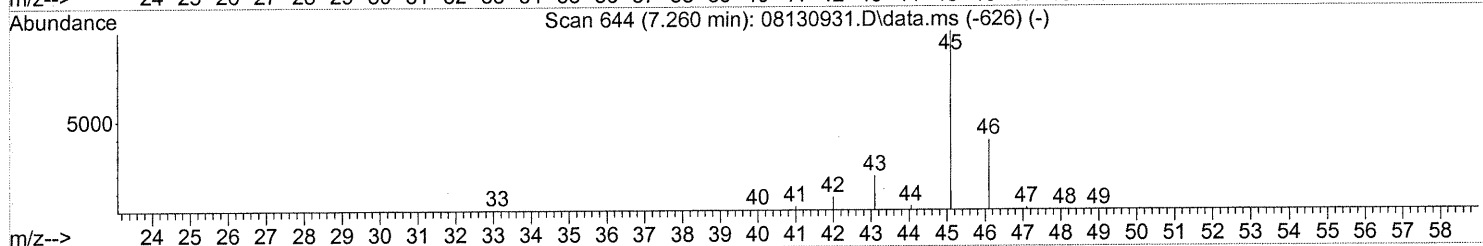
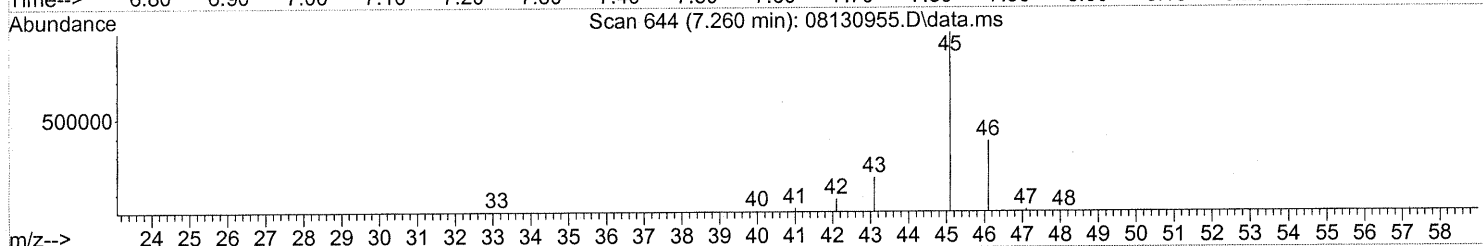
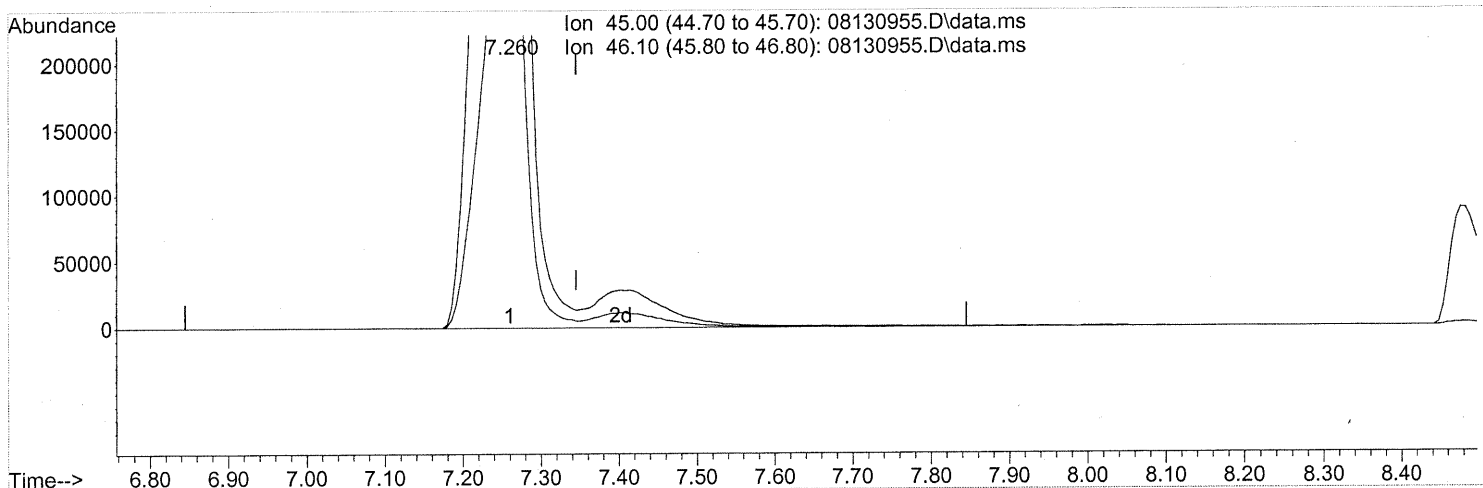
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.25
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:10 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130955.D\data.ms

(10) Ethanol (T)
 7.260min (-0.086) 174.09ng m
 response 3556014

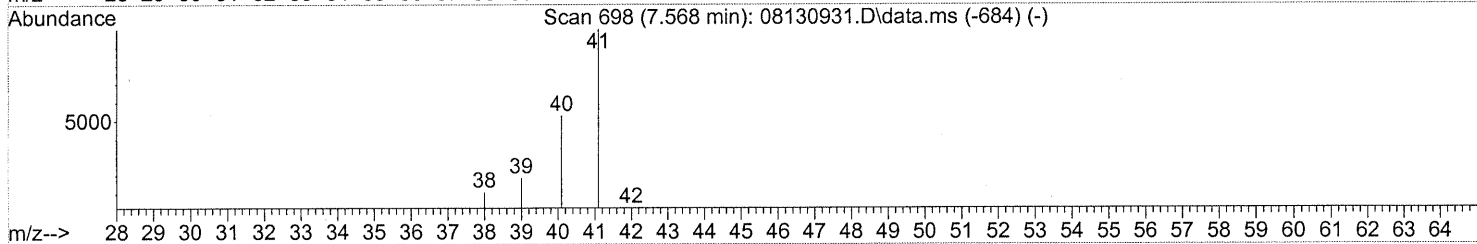
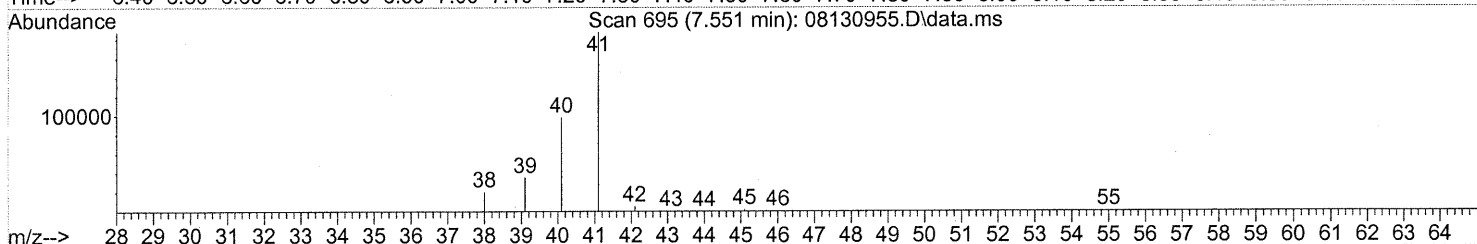
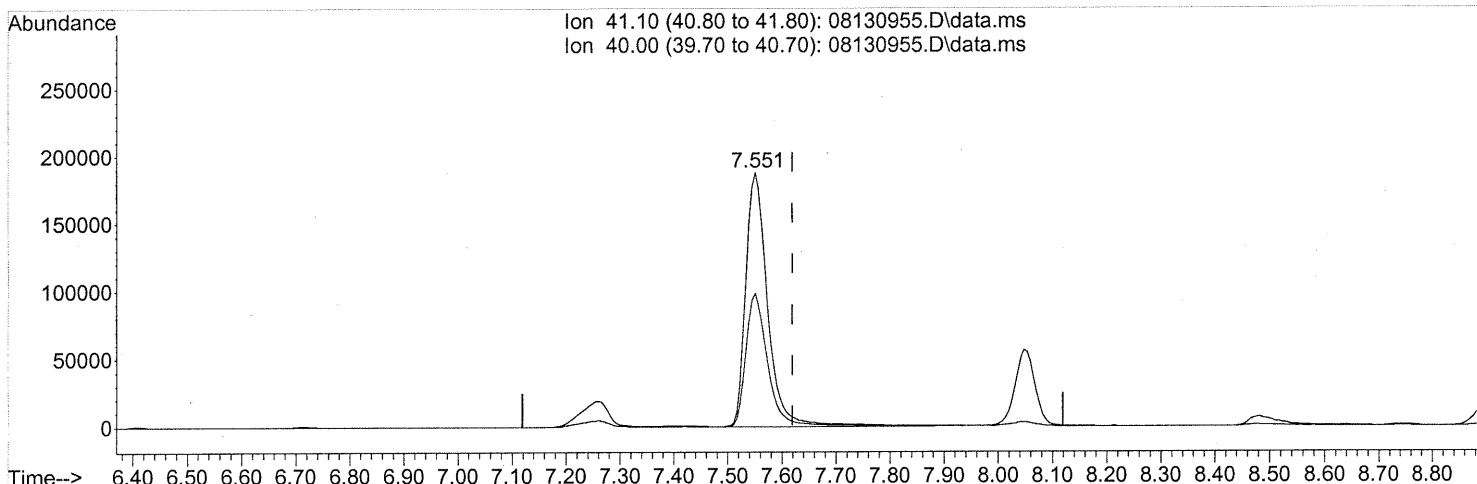
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.28
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/18/09
LM 8/18/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130955.D
 Acq On : 14 Aug 2009 23:16
 Operator : EM
 Sample : P0902720-007 dil (100ml)
 Misc : Environmental H & E 100678
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 17 08:26:10 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)
 7.551min (-0.069) 10.60ng
 response 528640

Ion	Exp%	Act%
41.10	100	100
40.00	53.30	52.62
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, Incorporated
Client Sample ID: 100679
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01467

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

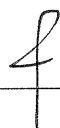
Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
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: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated

Client Sample ID: 100679

Client Project ID: 16512

CAS Project ID: P0902720

CAS Sample ID: P0902720-008

Test Code: EPA TO-15

Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9

Analyst: Elsa Moctezuma

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: AC01467

Date Collected: 8/6/09

Date Received: 8/7/09

Date Analyzed: 8/14/09

Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
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	1.0	ND	0.24	
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: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: 100679
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P0902720-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01467

Date Collected: 8/6/09
Date Received: 8/7/09
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

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

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

Verified By: _____

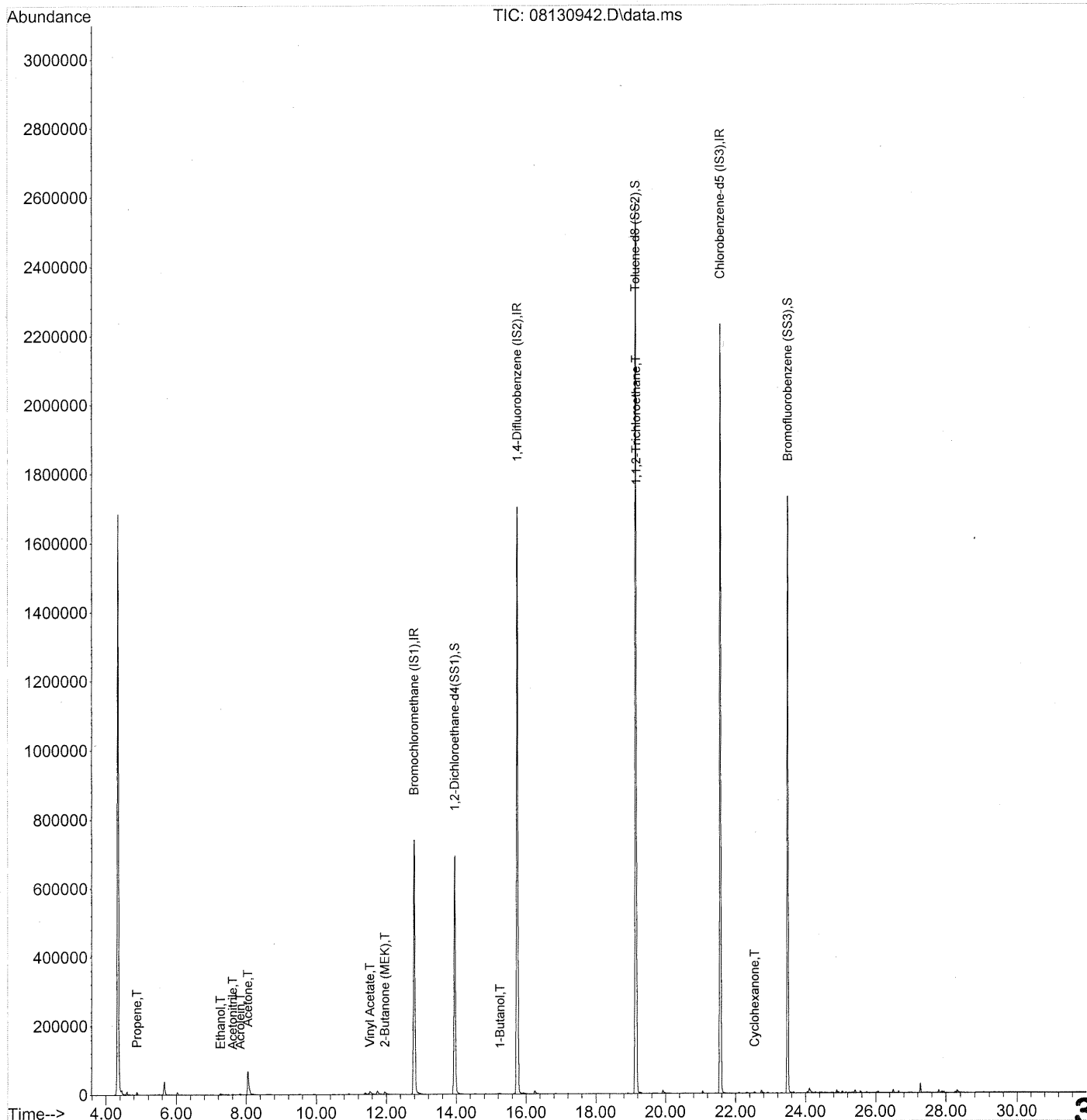
Date: _____

8/24/09

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130942.D
 Acq On : 14 Aug 2009 14:18
 Operator : EM
 Sample : P0902720-008 (1000ml)
 Misc : Environmental H & E 100679
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 08:25:22 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130942.D
 Acq On : 14 Aug 2009 14:18
 Operator : EM
 Sample : P0902720-008 (1000ml) ✓
 Misc : Environmental H & E 100679 ✓
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 08:25:22 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	396182	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	2010975	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	957160	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	698883	24.948	ng	-0.03 ✓
Spiked Amount	25.000			Recovery =	99.80%	
57) Toluene-d8 (SS2)	19.14	98	2295465	25.227	ng	-0.02 ✓
Spiked Amount	25.000			Recovery =	100.92%	
73) Bromofluorobenzene (SS3)	23.49	174	623960	24.213	ng	0.00 ✓
Spiked Amount	25.000			Recovery =	96.84%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	2992	0.086	ng	93
3) Dichlorodifluoromethan...	5.04	85	440	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	7.26	45	9960	0.457	ng	87
11) Acetonitrile	7.61	41	3036	0.057	ng	97
12) Acrolein	7.83	56	4702	0.331	ng	99
13) Acetone	8.05	58	54738	2.467	ng	# 62
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	8.66	45	2901	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) 2-Methyl-2-Propanol (t...	9.60	59	106	N.D.		
19) Methylene Chloride	9.53	84	1179	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	9.93	76	3319	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.30	63	213	N.D.		
25) Methyl tert-Butyl Ether	11.48	73	123	N.D.		
26) Vinyl Acetate	11.53	86	2490	0.518	ng	97
27) 2-Butanone (MEK)	11.96	72	4053	0.262	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	12.93	57	386	N.D.		

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130942.D
 Acq On : 14 Aug 2009 14:18
 Operator : EM
 Sample : P0902720-008 (1000ml)
 Misc : Environmental H & E 100679
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 08:25:22 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	15.25	56	1420	0.054	ng #	74
41) Benzene	15.23	78	3413	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.64	84	672	N.D.		
44) tert-Amyl Methyl Ether	16.14	73	144	N.D.		
45) 1,2-Dichloropropane	16.43	63	106	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.77	130	111	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.86	57	2120	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	19.16	97	176429	7.636	ng #	8
58) Toluene	19.28	91	3445	N.D.		
59) 2-Hexanone	19.55	43	1322	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.48	43	246	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	21.61	112	1468	N.D.		
66) Ethylbenzene	22.09	91	2471	N.D.		
67) m- & p-Xylenes	22.31	91	3816	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.79	104	1561	N.D.		
70) o-Xylene	22.92	91	2260	N.D.		
71) n-Nonane	23.17	43	1410	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.89	83	747	N.D.		
74) Cumene	23.66	105	3304	N.D.		
75) alpha-Pinene	24.15	93	754	N.D.		
76) n-Propylbenzene	24.29	91	3894	N.D.		
77) 3-Ethyltoluene	24.41	105	4313	N.D.		
78) 4-Ethyltoluene	24.46	105	3469	N.D.		
79) 1,3,5-Trimethylbenzene	24.55	105	2972	N.D.		

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130942.D
 Acq On : 14 Aug 2009 14:18
 Operator : EM
 Sample : P0902720-008 (1000ml)
 Misc : Environmental H & E 100679
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 08:25:22 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

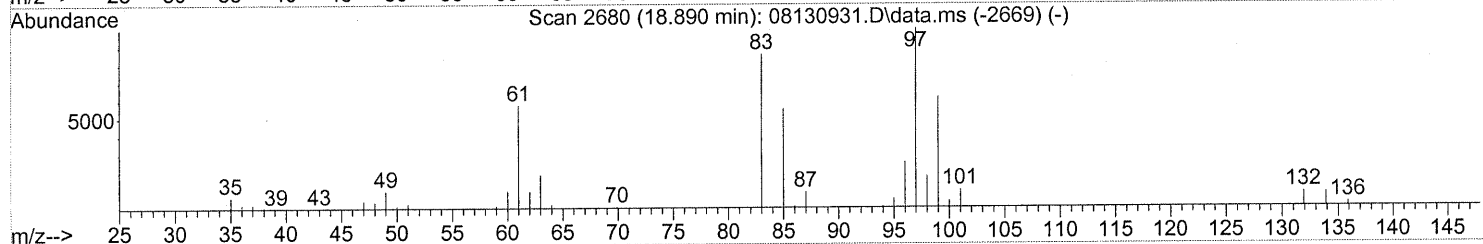
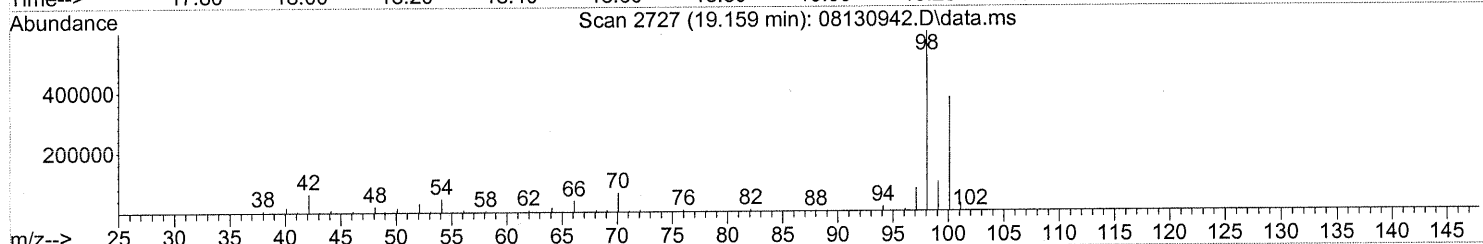
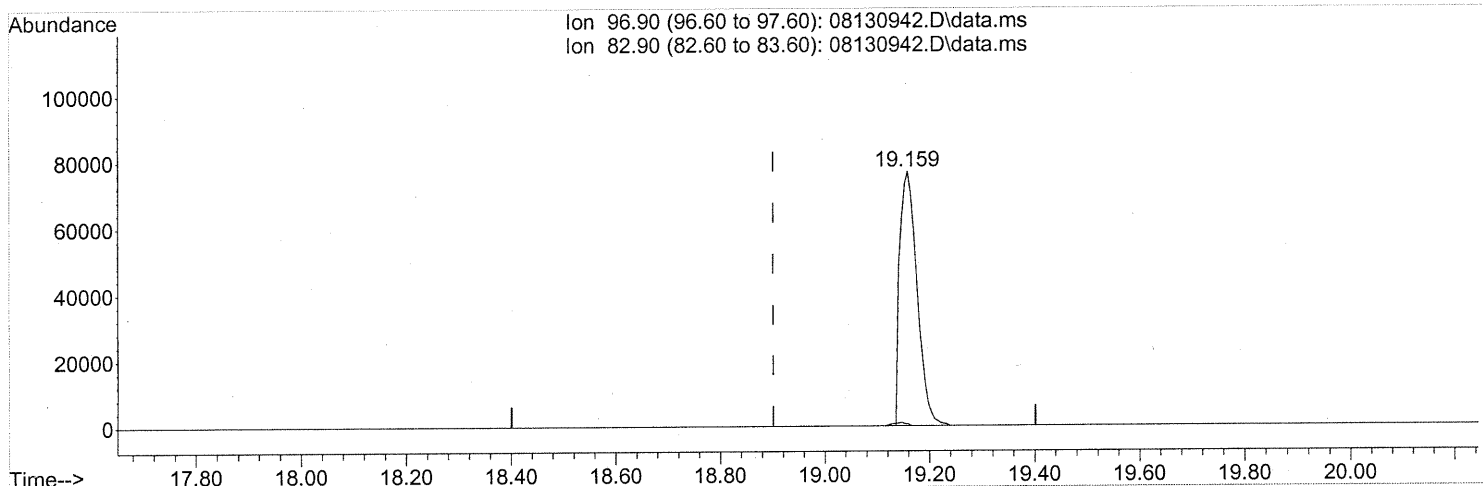
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.75	118	1096	N.D.		
81) 2-Ethyltoluene	24.79	105	3166	N.D.		
82) 1,2,4-Trimethylbenzene	25.05	105	2719	N.D.		
83) n-Decane	25.15	57	1636	N.D.		
84) Benzyl Chloride	25.22	91	1556	N.D.		
85) 1,3-Dichlorobenzene	25.25	146	1506	N.D.		
86) 1,4-Dichlorobenzene	25.33	146	1374	N.D.		
87) sec-Butylbenzene	25.38	105	3118	N.D.		
88) 4-Isopropyltoluene (p-...	25.56	119	2937	N.D.		
89) 1,2,3-Trimethylbenzene	25.57	105	2587	N.D.		
90) 1,2-Dichlorobenzene	25.74	146	1292	N.D.		
91) d-Limonene	25.73	68	745	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.65	57	1729	N.D.		
94) 1,2,4-Trichlorobenzene	27.80	180	1098	N.D.		
95) Naphthalene	27.94	128	5835	N.D.		
96) n-Dodecane	27.89	57	1983	N.D.		
97) Hexachlorobutadiene	28.36	225	113	N.D.		
98) Cyclohexanone	22.54	55	2386	0.069 ng	#	79
99) tert-Butylbenzene	25.05	119	2325	N.D.		
100) n-Butylbenzene	26.07	91	2736	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130942.D
 Acq On : 14 Aug 2009 14:18
 Operator : EM
 Sample : P0902720-008 (1000ml)
 Misc : Environmental H & E 100679
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 17 08:25:22 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

19.159min (+0.257) 7.64ng

response 176429

Ion	Exp%	Act%
96.90	100	100
82.90	85.30	0.86#
0.00	0.00	0.00
0.00	0.00	0.00

FP
Em 8/18/09
um 8/18/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result		MRL		Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.50	ND	0.29	
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	ND	0.10	
74-87-3	Chloromethane	ND	0.10	ND	0.048	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	ND	0.072	
75-01-4	Vinyl Chloride	ND	0.10	ND	0.039	
106-99-0	1,3-Butadiene	ND	0.10	ND	0.045	
74-83-9	Bromomethane	ND	0.10	ND	0.026	
75-00-3	Chloroethane	ND	0.10	ND	0.038	
64-17-5	Ethanol	ND	5.0	ND	2.7	
75-05-8	Acetonitrile	ND	0.50	ND	0.30	
107-02-8	Acrolein	ND	0.50	ND	0.22	
67-64-1	Acetone	ND	5.0	ND	2.1	
75-69-4	Trichlorofluoromethane	ND	0.10	ND	0.018	
67-63-0	2-Propanol (Isopropyl Alcohol)	ND	0.50	ND	0.20	
107-13-1	Acrylonitrile	ND	0.50	ND	0.23	
75-35-4	1,1-Dichloroethene	ND	0.10	ND	0.025	
75-09-2	Methylene Chloride	ND	0.50	ND	0.14	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	ND	0.032	
76-13-1	Trichlorotrifluoroethane	ND	0.10	ND	0.013	
75-15-0	Carbon Disulfide	ND	0.50	ND	0.16	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	ND	0.025	
75-34-3	1,1-Dichloroethane	ND	0.10	ND	0.025	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	ND	0.028	
108-05-4	Vinyl Acetate	ND	5.0	ND	1.4	
78-93-3	2-Butanone (MEK)	ND	0.50	ND	0.17	

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

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

Verified By: _____

Date: _____

8/24/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-MB

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
 Analyst: Elsa Moctezuma
 Sampling Media: 6.0 L Summa Canister
 Test Notes:

Date Collected: NA
 Date Received: NA
 Date Analyzed: 8/14/09
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	1.0	ND	0.28	
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	1.0	ND	0.24	
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: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Method Blank
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-MB

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.50	ND	0.11	
127-18-4	Tetrachloroethene	ND	0.10	ND	0.015	
108-90-7	Chlorobenzene	ND	0.10	ND	0.022	
100-41-4	Ethylbenzene	ND	0.50	ND	0.12	
179601-23-1	m,p-Xylenes	ND	0.50	ND	0.12	
75-25-2	Bromoform	ND	0.50	ND	0.048	
100-42-5	Styrene	ND	0.50	ND	0.12	
95-47-6	o-Xylene	ND	0.50	ND	0.12	
111-84-2	n-Nonane	ND	0.50	ND	0.095	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	ND	0.015	
98-82-8	Cumene	ND	0.50	ND	0.10	
80-56-8	alpha-Pinene	ND	0.50	ND	0.090	
103-65-1	n-Propylbenzene	ND	0.50	ND	0.10	
622-96-8	4-Ethyltoluene	ND	0.50	ND	0.10	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	ND	0.10	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	ND	0.10	
100-44-7	Benzyl Chloride	ND	0.10	ND	0.019	
541-73-1	1,3-Dichlorobenzene	ND	0.10	ND	0.017	
106-46-7	1,4-Dichlorobenzene	ND	0.10	ND	0.017	
95-50-1	1,2-Dichlorobenzene	ND	0.10	ND	0.017	
5989-27-5	d-Limonene	ND	0.50	ND	0.090	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	ND	0.052	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	ND	0.067	
91-20-3	Naphthalene	ND	0.50	ND	0.095	
87-68-3	Hexachlorobutadiene	ND	0.50	ND	0.047	

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

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

Verified By: _____

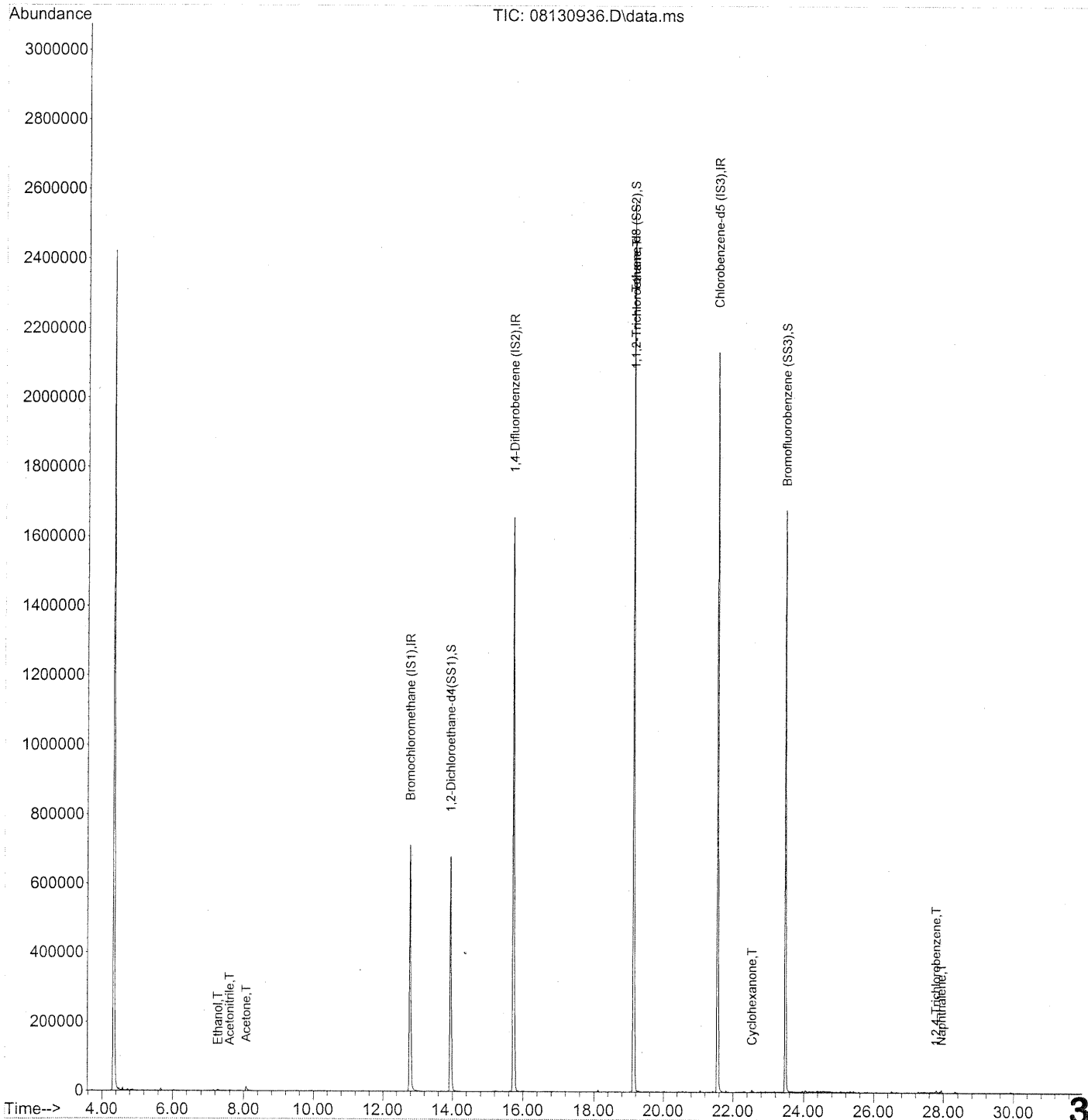
Date: _____

8/24/09

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130936.D
 Acq On : 14 Aug 2009 9:24
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 09:57:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130936.D
 Acq On : 14 Aug 2009 9:24
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 09:57:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.79	130	383783	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	15.74	114	1975190	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	916505	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	680472	25.076	ng	-0.04 ✓
Spiked Amount	25.000		Recovery	=	100.32%	
57) Toluene-d8 (SS2)	19.14	98	2229603	25.590	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	102.36%	
73) Bromofluorobenzene (SS3)	23.49	174	604120	24.483	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	97.92%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.88	42	1549	N.D.		
3) Dichlorodifluoromethan...	5.03	85	109	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	6.11	54	112	N.D.		
8) Bromomethane	6.60	94	356	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.27	45	8020	0.380	ng	77
11) Acetonitrile	7.60	41	4564	0.089	ng	93
12) Acrolein	7.85	56	364	N.D.		
13) Acetone	8.08	58	8033	0.374	ng	90
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) 2-Propanol (Isopropanol)	0.00	45	0	N.D.		
16) Acrylonitrile	8.86	53	641	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	9.52	84	827	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	9.94	76	2469	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	12.93	57	340	N.D.		

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130936.D
 Acq On : 14 Aug 2009 9:24
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 09:57:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QI on	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0		N.D.	
34) Tetrahydrofuran (THF)	0.00	72	0		N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0		N.D.	
36) 1,2-Dichloroethane	0.00	62	0		N.D.	
38) 1,1,1-Trichloroethane	0.00	97	0		N.D.	
39) Isopropyl Acetate	0.00	61	0		N.D.	
40) 1-Butanol	15.24	56	451		N.D.	
41) Benzene	15.22	78	4231		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.66	84	701		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...	16.85	57	1492		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	19.15	97	167762	7.392 ng	FP #	8
58) Toluene	19.28	91	4173		N.D.	
59) 2-Hexanone	19.59	43	251		N.D.	
60) Dibromochloromethane	0.00	129	0		N.D.	
61) 1,2-Dibromoethane	0.00	107	0		N.D.	
62) n-Butyl Acetate	20.46	43	1069		N.D.	
63) n-Octane	20.56	57	383		N.D.	
64) Tetrachloroethene	0.00	166	0		N.D.	
65) Chlorobenzene	21.62	112	1300		N.D.	
66) Ethylbenzene	22.09	91	1942		N.D.	
67) m- & p-Xylenes	22.34	91	3862		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	22.79	104	1266		N.D.	
70) o-Xylene	22.92	91	2998		N.D.	
71) n-Nonane	23.17	43	1314		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.67	105	3172		N.D.	
75) alpha-Pinene	24.15	93	111		N.D.	
76) n-Propylbenzene	24.29	91	2774		N.D.	
77) 3-Ethyltoluene	24.41	105	3093		N.D.	
78) 4-Ethyltoluene	24.46	105	2606		N.D.	
79) 1,3,5-Trimethylbenzene	24.56	105	2734		N.D.	

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130936.D
 Acq On : 14 Aug 2009 9:24
 Operator : EM
 Sample : TO-15 Method Blank (1000ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 09:57:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	759		N.D.	
81) 2-Ethyltoluene	24.79	105	3414		N.D.	
82) 1,2,4-Trimethylbenzene	25.05	105	3959		N.D.	
83) n-Decane	25.15	57	634		N.D.	
84) Benzyl Chloride	25.23	91	3262		N.D.	
85) 1,3-Dichlorobenzene	25.26	146	2074		N.D.	
86) 1,4-Dichlorobenzene	25.33	146	2462		N.D.	
87) sec-Butylbenzene	25.38	105	1496		N.D.	
88) 4-Isopropyltoluene (p-...	25.57	119	1318		N.D.	
89) 1,2,3-Trimethylbenzene	25.57	105	1496		N.D.	
90) 1,2-Dichlorobenzene	25.75	146	1216		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	26.65	57	930		N.D.	
94) 1,2,4-Trichlorobenzene	27.79	180	2195	0.062	ng #	89
95) Naphthalene	27.94	128	10996	0.084	ng	93
96) n-Dodecane	27.89	57	1694		N.D.	
97) Hexachlorobutadiene	0.00	225	0		N.D.	
98) Cyclohexanone	22.54	55	4214	0.127	ng	94
99) tert-Butylbenzene	25.04	119	1893		N.D.	
100) n-Butylbenzene	26.07	91	1777		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, Incorporated
Client Project ID: 16512

CAS Project ID: P0902720

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 8/6/09
Date(s) Received: 8/7/09
Date(s) Analyzed: 8/14/09

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	P090814-MB	100	70-130	102	70-130	98	70-130	
Lab Control Sample	P090814-LCS	99	70-130	102	70-130	99	70-130	
99934	P0902720-001	100	70-130	102	70-130	98	70-130	
99935	P0902720-002	100	70-130	102	70-130	98	70-130	
99936	P0902720-003	101	70-130	102	70-130	98	70-130	
100675	P0902720-004	101	70-130	103	70-130	99	70-130	
100676	P0902720-005	100	70-130	102	70-130	98	70-130	
100677	P0902720-006	101	70-130	100	70-130	100	70-130	
100678	P0902720-007	99	70-130	101	70-130	101	70-130	
100679	P0902720-008	100	70-130	101	70-130	97	70-130	

Verified By: _____



Date: _____

8/24/09

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
115-07-1	Propene	26.3	27.7	105	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	24.7	95	61-118	
74-87-3	Chloromethane	25.0	24.8	99	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	25.1	97	65-122	
75-01-4	Vinyl Chloride	25.3	24.3	96	57-132	
106-99-0	1,3-Butadiene	26.8	27.8	104	66-161	
74-83-9	Bromomethane	25.8	26.2	102	67-130	
75-00-3	Chloroethane	25.5	24.9	98	68-123	
64-17-5	Ethanol	130	127	98	50-155	
75-05-8	Acetonitrile	26.0	25.2	97	48-148	
107-02-8	Acrolein	26.3	29.3	111	67-138	
67-64-1	Acetone	132	122	92	59-121	
75-69-4	Trichlorofluoromethane	26.3	24.7	94	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	44.3	92	54-126	
107-13-1	Acrylonitrile	25.8	29.4	114	65-134	
75-35-4	1,1-Dichloroethene	27.5	26.4	96	70-123	
75-09-2	Methylene Chloride	26.8	24.3	91	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	28.6	106	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	27.9	101	69-126	
75-15-0	Carbon Disulfide	26.0	25.1	97	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	25.7	101	69-125	
75-34-3	1,1-Dichloroethane	26.5	26.0	98	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	26.6	101	72-132	
108-05-4	Vinyl Acetate	126	153	121	73-158	
78-93-3	2-Butanone (MEK)	26.8	30.3	113	68-126	

Verified By: _____



Date: _____

8/21/09

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COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3


Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	26.9	100	69-124	
141-78-6	Ethyl Acetate	52.0	53.9	104	65-126	
110-54-3	n-Hexane	26.0	25.2	97	63-125	
67-66-3	Chloroform	27.5	26.3	96	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	28.1	106	65-124	
107-06-2	1,2-Dichloroethane	26.3	26.8	102	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	25.9	100	69-127	
71-43-2	Benzene	25.8	24.9	97	68-122	
56-23-5	Carbon Tetrachloride	26.3	26.6	101	68-137	
110-82-7	Cyclohexane	51.8	51.1	99	68-121	
78-87-5	1,2-Dichloropropane	26.0	26.2	101	69-128	
75-27-4	Bromodichloromethane	26.3	27.1	103	71-131	
79-01-6	Trichloroethene	25.8	24.8	96	72-122	
123-91-1	1,4-Dioxane	26.0	29.2	112	73-127	
80-62-6	Methyl Methacrylate	52.8	54.8	104	80-133	
142-82-5	n-Heptane	25.8	25.4	98	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	26.7	109	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	29.7	111	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	30.9	114	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	27.2	105	76-125	
108-88-3	Toluene	26.8	26.7	100	74-119	
591-78-6	2-Hexanone	27.0	29.2	108	64-118	
124-48-1	Dibromochloromethane	28.3	30.0	106	79-129	
106-93-4	1,2-Dibromoethane	26.3	28.8	110	79-125	
123-86-4	n-Butyl Acetate	27.5	31.6	115	70-136	

Verified By:  Date: 8/21/09 **356**
 TO15scan.xls - 75 Compounds - PageNo.:

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

Client: Environmental Health & Engineering, Incorporated
Client Sample ID: Lab Control Sample
Client Project ID: 16512

CAS Project ID: P0902720
 CAS Sample ID: P090814-LCS

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5973inert/6890N/MS9
Analyst: Elsa Moctezuma
Sampling Media: 6.0 L Summa Canister
Test Notes:

Date Collected: NA
Date Received: NA
Date Analyzed: 8/14/09
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
111-65-9	n-Octane	26.3	27.1	103	75-126	
127-18-4	Tetrachloroethene	25.3	25.6	101	72-125	
108-90-7	Chlorobenzene	26.5	26.8	101	74-121	
100-41-4	Ethylbenzene	26.3	27.2	103	76-120	
179601-23-1	m,p-Xylenes	51.5	53.3	103	75-120	
75-25-2	Bromoform	26.5	28.1	106	76-143	
100-42-5	Styrene	26.3	28.7	109	78-124	
95-47-6	o-Xylene	26.0	27.2	105	76-121	
111-84-2	n-Nonane	25.8	26.8	104	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	28.7	106	77-126	
98-82-8	Cumene	25.3	26.1	103	78-125	
80-56-8	alpha-Pinene	24.8	26.0	105	78-125	
103-65-1	n-Propylbenzene	25.3	26.3	104	80-127	
622-96-8	4-Ethyltoluene	26.3	27.3	104	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	27.8	109	76-123	
100-44-7	Benzyl Chloride	26.8	30.5	114	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	28.0	108	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	26.8	102	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	27.1	105	75-124	
5989-27-5	d-Limonene	26.5	29.1	110	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	31.3	116	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	29.7	109	70-139	
91-20-3	Naphthalene	25.0	28.0	112	69-141	
87-68-3	Hexachlorobutadiene	26.8	28.8	107	68-138	

Verified By: _____

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Date: _____

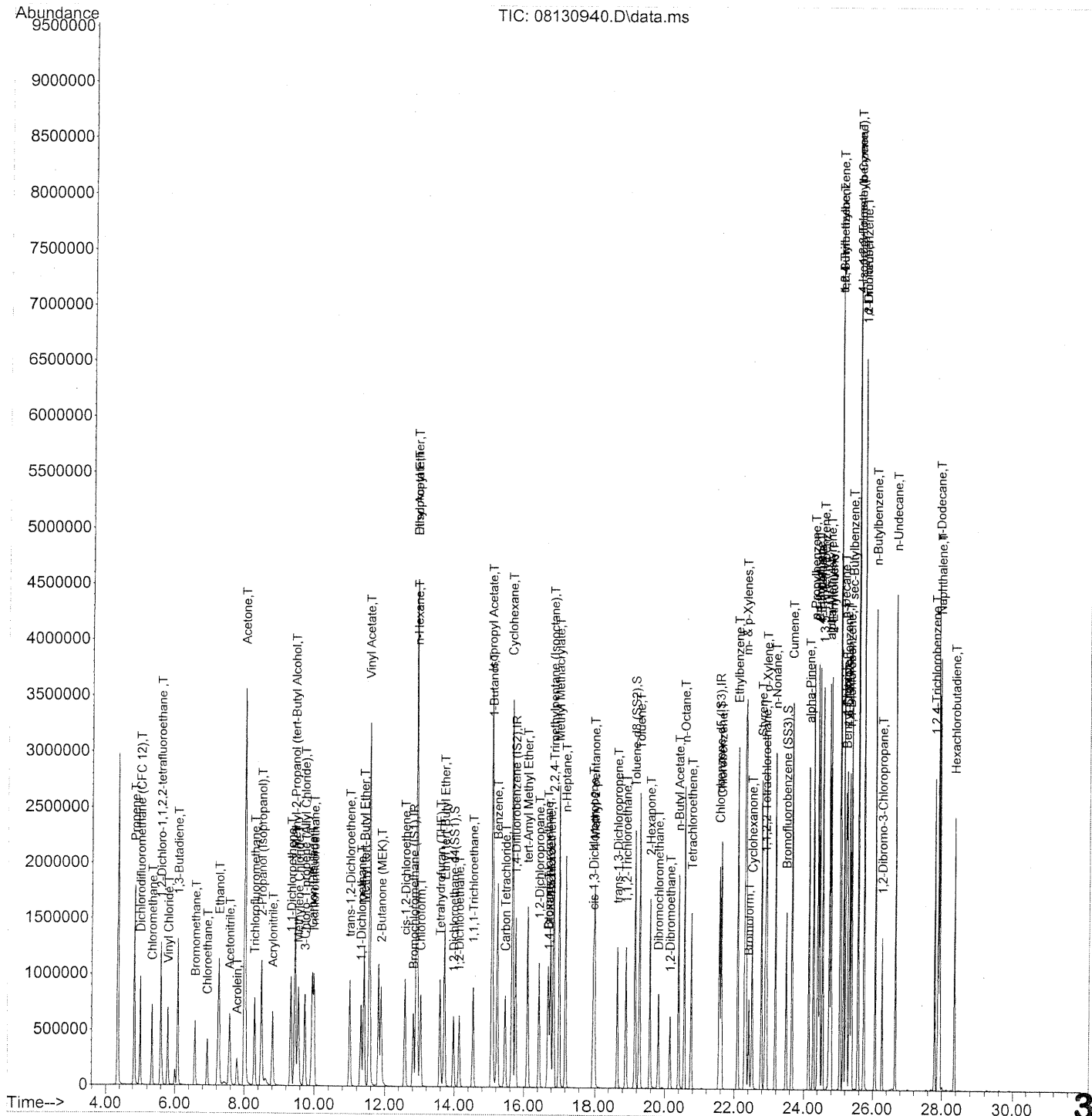
8/21/09

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Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:23:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:23:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	354128	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1810923	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	849602	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	619366	24.735	ng	-0.02 ✓
Spiked Amount	25.000		Recovery	=	98.96%	
57) Toluene-d8 (SS2)	19.15	98	2064038	25.555	ng	-0.01 ✓
Spiked Amount	25.000		Recovery	=	102.24%	
73) Bromofluorobenzene (SS3)	23.49	174	563892	24.652	ng	0.00 ✓
Spiked Amount	25.000		Recovery	=	98.60%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	861450	27.731	ng	96
3) Dichlorodifluoromethan...	5.00	85	1096708	24.733	ng	99
4) Chloromethane	5.33	50	1023587	24.768	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	588190	25.102	ng	100
6) Vinyl Chloride	5.80	62	992264	24.340	ng	98
7) 1,3-Butadiene	6.08	54	805572	27.820	ng	99
8) Bromomethane	6.59	94	558983	26.222	ng	100
9) Chloroethane	6.93	64	503489	24.895	ng	100
10) Ethanol	7.27	45	2472136m	126.867	ng	
11) Acetonitrile	7.57	41	1196568	25.162	ng	99
12) Acrolein	7.79	56	371911	29.267	ng	98
13) Acetone	8.01	58	2412776	121.678	ng	89
14) Trichlorofluoromethane	8.29	101	937248	24.717	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	2403981m	44.269	ng	
16) Acrylonitrile	8.81	53	847215	29.415	ng	99
17) 1,1-Dichloroethene	9.33	96	586684	26.365	ng	98
18) 2-Methyl-2-Propanol (t...	9.45	59	3049418	55.313	ng	98
19) Methylene Chloride	9.54	84	601498	24.313	ng	90
20) 3-Chloro-1-propene (Al...	9.73	41	948581	28.592	ng	89
21) Trichlorotrifluoroethane	9.99	151	473787	27.917	ng	97
22) Carbon Disulfide	9.94	76	2193531	25.124	ng	99
23) trans-1,2-Dichloroethene	11.00	61	878129	25.715	ng	93
24) 1,1-Dichloroethane	11.32	63	1089232	26.044	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1799974	26.560	ng	96
26) Vinyl Acetate	11.56	86	657031	152.988	ng	# 72
27) 2-Butanone (MEK)	11.89	72	418496	30.273	ng	# 85
28) cis-1,2-Dichloroethene	12.58	61	858076	26.928	ng	93
29) Diisopropyl Ether	12.91	87	520890	26.541	ng	# 72
30) Ethyl Acetate	12.91	61	483047	53.885	ng	97
31) n-Hexane	12.93	57	1103136	25.244	ng	98

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:23:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.03	83	962472	26.316	ng	100
34) Tetrahydrofuran (THF)	13.58	72	403765	28.094	ng #	89
35) Ethyl tert-Butyl Ether	13.71	87	720030	25.714	ng #	88
36) 1,2-Dichloroethane	14.13	62	751272	26.844	ng	99
38) 1,1,1-Trichloroethane	14.54	97	851681	25.858	ng	100
39) Isopropyl Acetate	15.07	61	850026	57.514	ng #	82
40) 1-Butanol	15.09	56	1444658	61.561	ng	87
41) Benzene	15.23	78	2429052	24.942	ng	99
42) Carbon Tetrachloride	15.46	117	725282	26.643	ng	99
43) Cyclohexane	15.66	84	1928987	51.145	ng	88
44) tert-Amyl Methyl Ether	16.10	73	1776184	25.949	ng	99
45) 1,2-Dichloropropane	16.43	63	624756	26.150	ng	98
46) Bromodichloromethane	16.70	83	771242	27.070	ng	99
47) Trichloroethene	16.77	130	612956	24.789	ng	99
48) 1,4-Dioxane	16.72	88	506195	29.223	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	2782625	24.826	ng	94
50) Methyl Methacrylate	17.02	100	532874	54.758	ng	91
51) n-Heptane	17.21	71	659048	25.421	ng	95
52) cis-1,3-Dichloropropene	17.95	75	960699	26.687	ng	100
53) 4-Methyl-2-pentanone	17.99	58	625035	29.700	ng	95
54) trans-1,3-Dichloropropene	18.64	75	972196	30.871	ng	100
55) 1,1,2-Trichloroethane	18.89	97	565831	27.195	ng	99
58) Toluene	19.28	91	2615708	26.715	ng	100
59) 2-Hexanone	19.58	43	1485167	29.186	ng	99
60) Dibromochloromethane	19.82	129	627267	30.004	ng	100
61) 1,2-Dibromoethane	20.15	107	633680	28.757	ng	99
62) n-Butyl Acetate	20.39	43	1752045	31.555	ng	99
63) n-Octane	20.56	57	592098	27.130	ng	92
64) Tetrachloroethene	20.76	166	621730	25.590	ng	99
65) Chlorobenzene	21.62	112	1611498	26.801	ng	100
66) Ethylbenzene	22.09	91	2879841	27.243	ng	99
67) m- & p-Xylenes	22.33	91	4465059	53.280	ng	100
68) Bromoform	22.41	173	509621	28.083	ng	100
69) Styrene	22.77	104	1776363	28.676	ng	100
70) o-Xylene	22.92	91	2295695	27.230	ng	99
71) n-Nonane	23.17	43	1358513	26.758	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	1039268	28.697	ng	99
74) Cumene	23.66	105	2851876	26.090	ng	99
75) alpha-Pinene	24.15	93	1404485	26.042	ng	100
76) n-Propylbenzene	24.28	91	3546530	26.251	ng	99
77) 3-Ethyltoluene	24.41	105	2816690	27.505	ng	98
78) 4-Ethyltoluene	24.46	105	2807981	27.275	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2352769	27.639	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:23:53 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

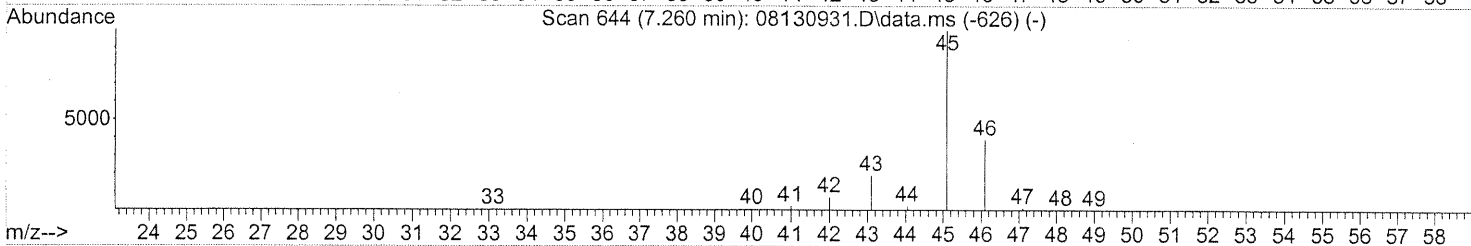
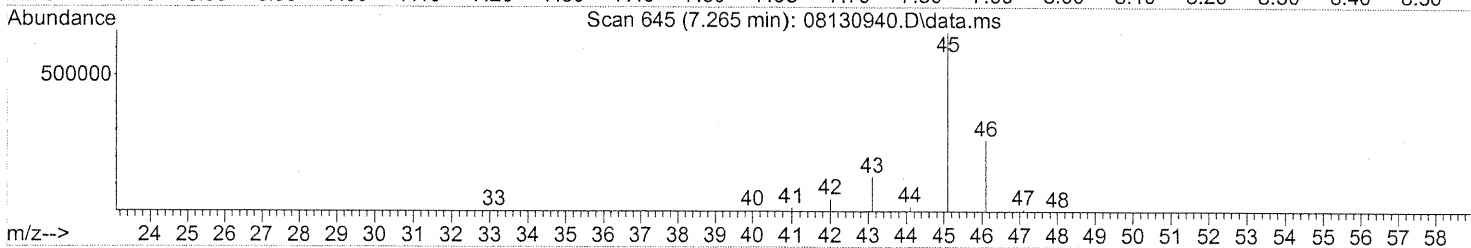
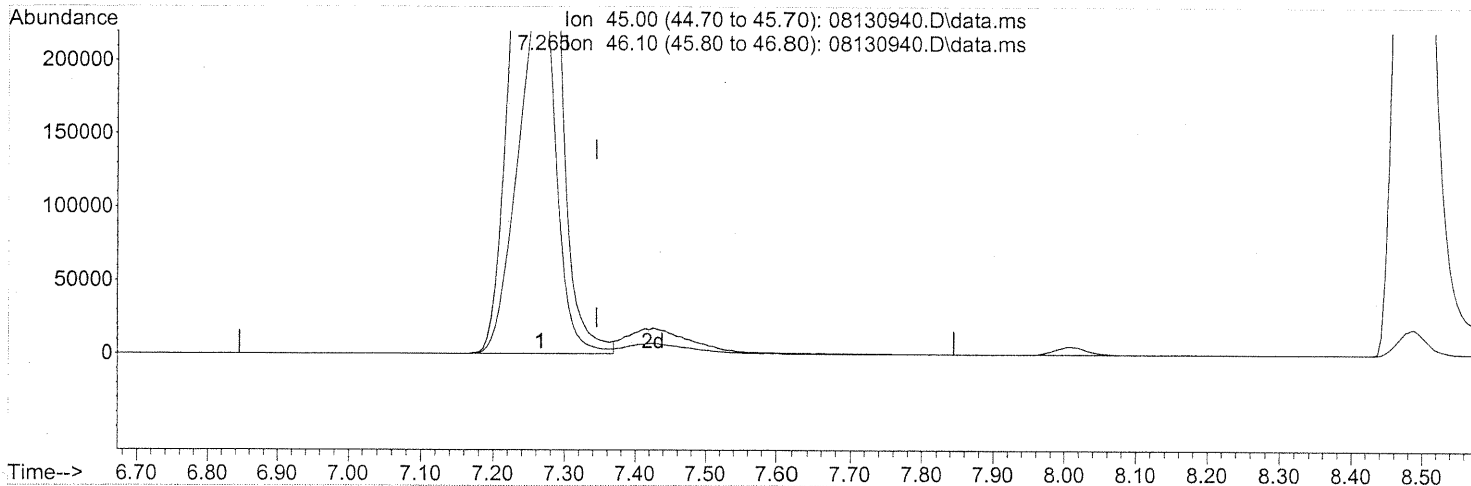
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1315082	28.472	ng	99
81) 2-Ethyltoluene	24.79	105	2802624	26.502	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2508270	27.752	ng	99
83) n-Decane	25.15	57	1431612	27.213	ng	95
84) Benzyl Chloride	25.22	91	2131827	30.488	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1309311	27.982	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1329046	26.770	ng	100
87) sec-Butylbenzene	25.38	105	3185894	26.750	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3048599	26.716	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2522768	27.615	ng	99
90) 1,2-Dichlorobenzene	25.75	146	1275185	27.142	ng	100
91) d-Limonene	25.74	68	1077095	29.128	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.26	157	444264	31.312	ng	96
93) n-Undecane	26.65	57	1517963	27.925	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	974248	29.682	ng	99
95) Naphthalene	27.94	128	3399252	28.030	ng	100
96) n-Dodecane	27.89	57	1595287	26.217	ng	97
97) Hexachlorobutadiene	28.36	225	539867	28.803	ng	99
98) Cyclohexanone	22.51	55	885931	28.731	ng	95
99) tert-Butylbenzene	25.05	119	2434361	27.158	ng	99
100) n-Butylbenzene	26.07	91	2642391	27.875	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:21:58 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.265min (-0.080) 121.00ng

response 2357810

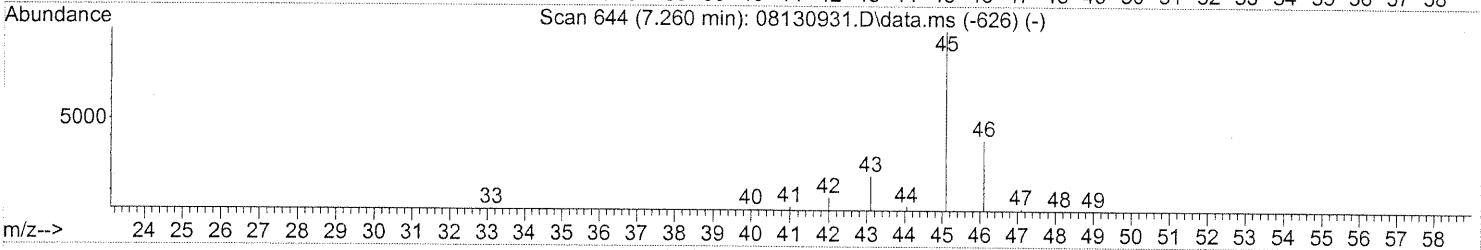
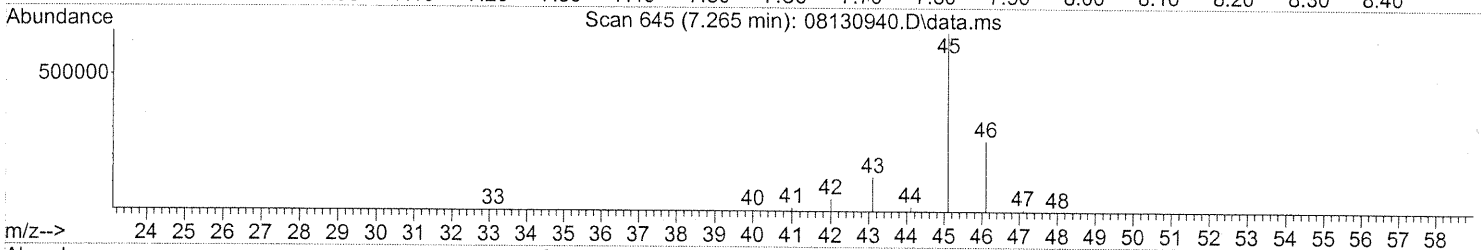
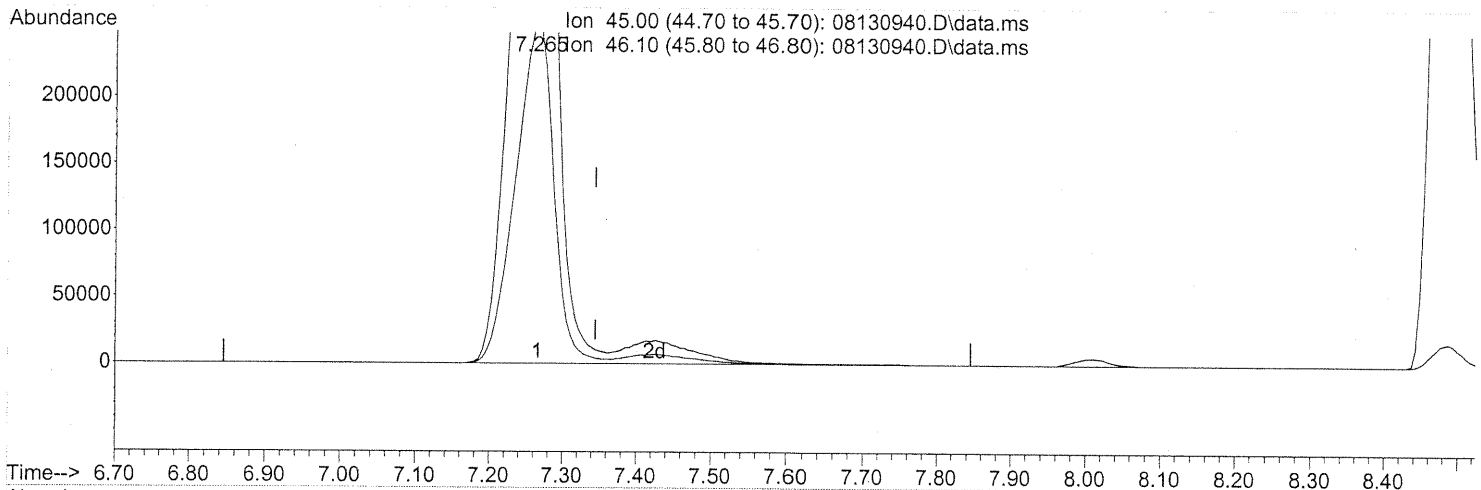
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.18
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130940.D
 Acq On : 14 Aug 2009 12:43
 Operator : EM
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:21:58 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.265min (-0.080) 126.87ng m
 response 2472136

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.36
0.00	0.00	0.00
0.00	0.00	0.00

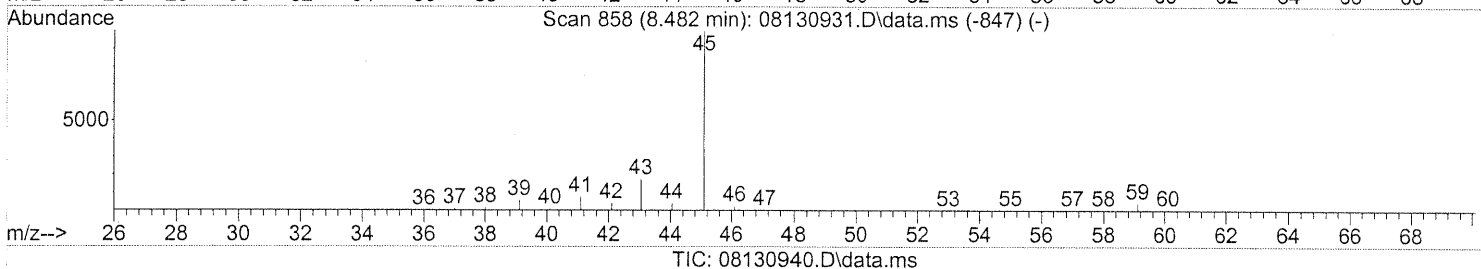
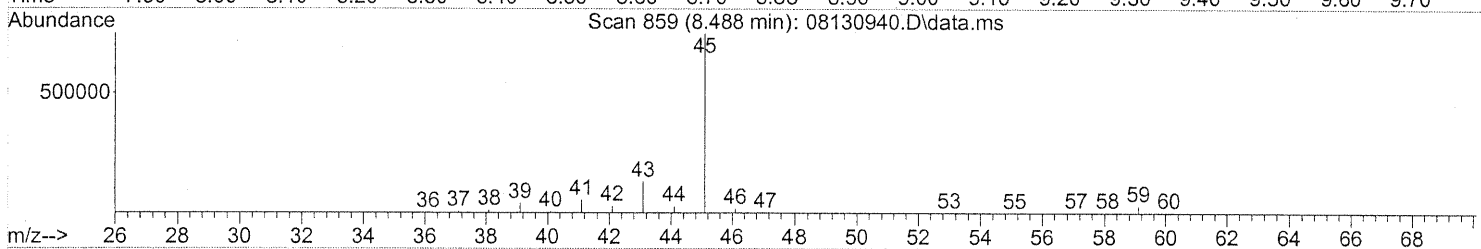
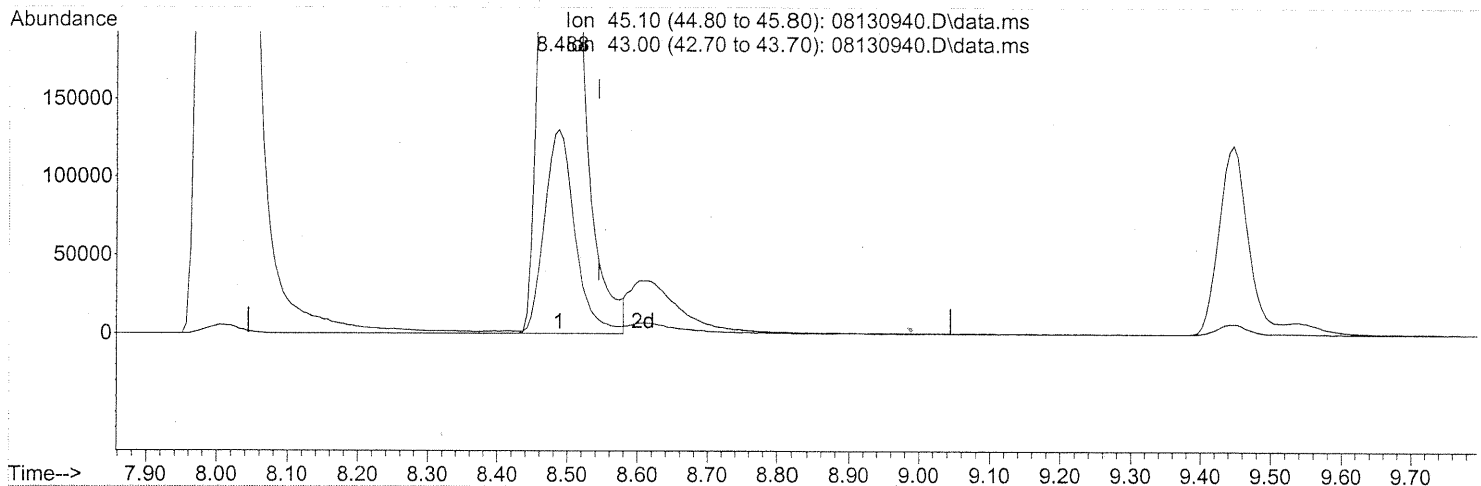
PT → IC
 em 8/14/09

10A 8/17/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
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 Response via : Initial Calibration



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

8.488min (-0.057) 41.09ng

response 2231235

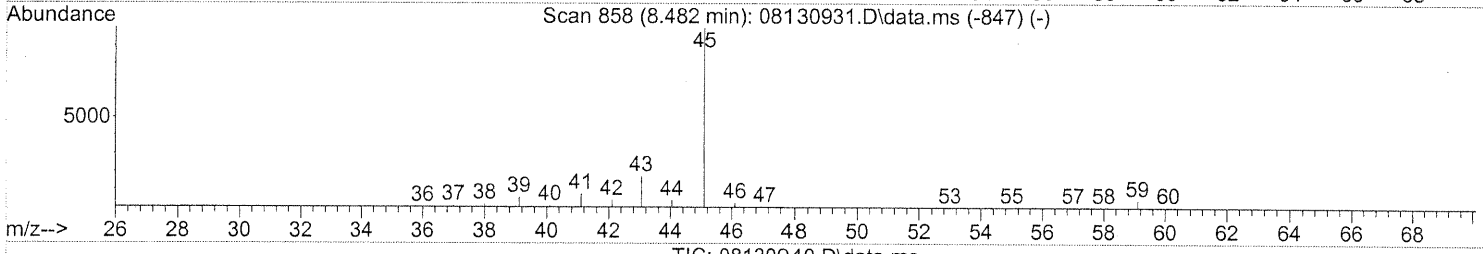
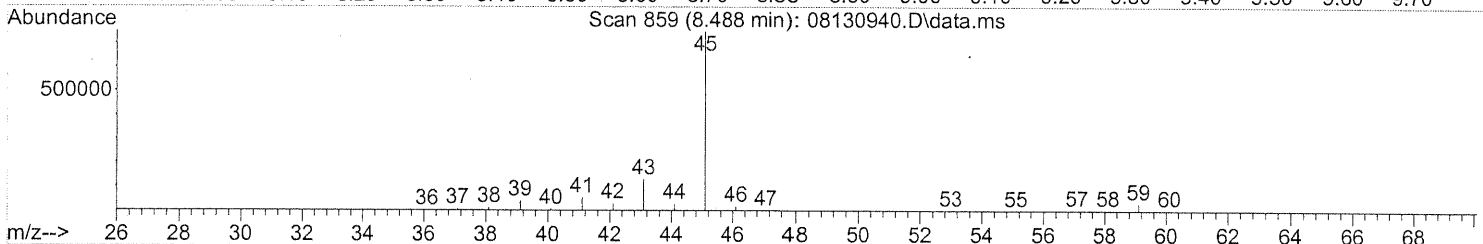
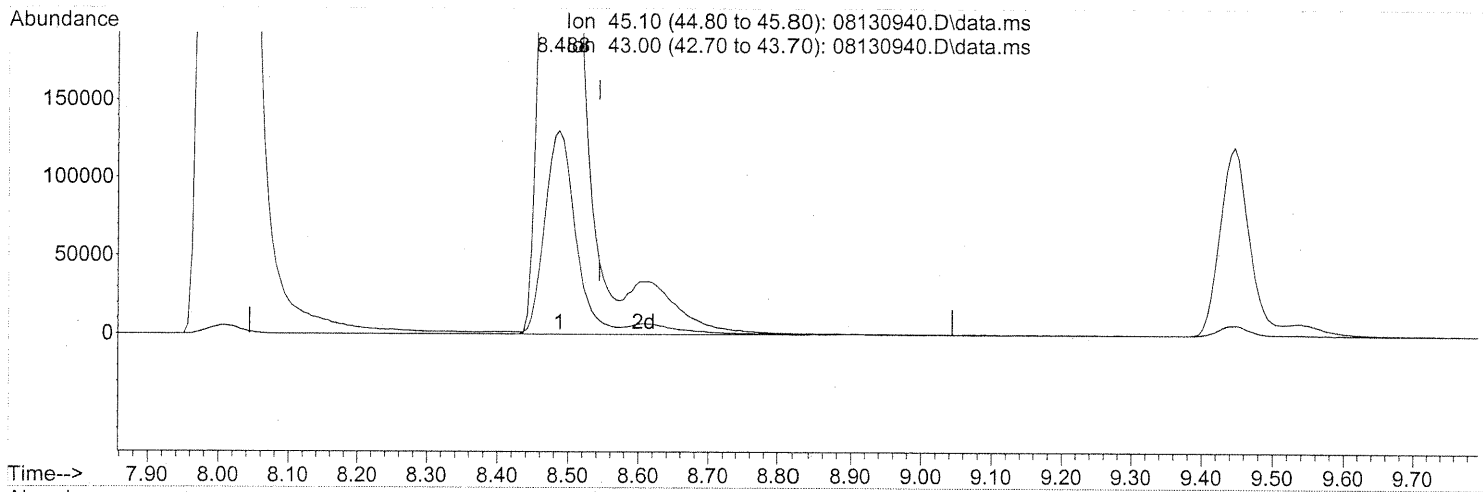
PT

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130940.D
Acq On : 14 Aug 2009 12:43
Operator : EM
Sample : 25ng TO-15 LCS STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 13:21:58 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



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

8.488min (-0.057) 44.27ng m

response 2403981

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.02
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
Em 8/14/09

PT 8/17/09

365

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS09\Methods\
Method File : R9081309.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Fri Aug 14 07:31:29 2009
Response Via : Initial Calibration

Calibration Files
0.1 =08130926.D 0.2 =08130927.D 0.5 =08130928.D 1.0 =08130929.D 5.0 =08130930.D 25 =08130931.D
50 =08130932.D 100 =08130933.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane...										
2) T Propene	2.174	2.059	2.094	1.808	2.232	2.290	2.446	2.441	2.193	9.63
3) T Dichlorodifluo...	3.035	3.114	3.770	3.266	3.072	2.931	2.923	2.931	3.130	9.06
4) T Chloromethane	2.821	2.880	3.586	3.105	2.875	2.912	2.723	2.438	2.918	11.31
5) T 1,2-Dichloro-1...	1.540	1.594	1.974	1.722	1.584	1.592	1.618	1.608	1.654	8.41
6) T Vinyl Chloride	2.832	2.792	3.468	3.004	2.799	2.744	2.731	2.654	2.878	8.99
7) T 1,3-Butadiene	1.798	1.830	2.433	2.110	2.037	2.073	2.052	2.021	2.044	9.50
8) T Bromomethane	1.454	1.354	1.828	1.539	1.457	1.488	1.450	1.470	1.505	9.32
9) T Chloroethane	1.288	1.353	1.704	1.532	1.407	1.388	1.372	1.378	1.428	9.16
10) T Ethanol	1.327	1.340	1.502	1.355	1.359	1.397	1.382	1.343	1.376	4.08
11) T Acetonitrile	3.225	3.235	3.880	3.469	3.312	3.308	3.278	3.151	3.357	6.86
12) T Acrolein	0.587	0.838	1.022	0.925	0.938	0.968	0.960	0.938	0.897	15.10
13) T Acetone	1.737	1.573	1.514	1.326	1.242	1.261	1.272	1.274	1.400	13.19
14) T Trichlorofluor...	2.460	2.470	3.217	2.781	2.602	2.632	2.617	2.637	2.677	8.99
15) T 2-Propanol (Is...	3.909	4.076	5.169	4.663	3.537	3.561	2.938	2.816	3.834	21.00
16) T Acrylonitrile	1.184	1.544	2.296	2.130	2.248	2.314	2.290	2.261	2.033	21.03
17) T 1,1-Dichloroet...	1.628	1.534	1.819	1.557	1.481	1.503	1.505	1.541	1.571	6.98
18) T 2-Methyl-2-Pro...	3.719	3.691	4.575	4.109	4.026	4.261	2.863		3.892	14.06
19) T Methylene Chlo...	2.075	1.791	2.042	1.702	1.591	1.591	1.590	1.589	1.747	11.79
20) T 3-Chloro-1-pro...	1.881	1.974	2.644	2.375	2.386	2.488	2.495	2.494	2.342	11.52
21) T Trichlorotrifl...	1.029	1.052	1.425	1.232	1.189	1.220	1.226	1.212	1.198	10.17
22) T Carbon Disulfide	6.127	5.864	7.192	6.199	5.928	5.960	5.995	6.042	6.163	6.96
23) T trans-1,2-Dich...	2.076	2.186	2.809	2.490	2.391	2.447	2.447	2.439	2.411	9.02
24) T 1,1-Dichloroet...	2.858	2.714	3.451	2.979	2.870	2.922	2.925	2.901	2.952	7.32
25) T Methyl tert-Bu...	4.501	4.369	5.328	4.761	4.707	4.811	4.903	4.894	4.784	6.03
26) T Vinyl Acetate			0.219	0.227	0.282	0.357	0.377	0.356	0.303	23.05
27) T 2-Butanone (MEK)			0.903	0.913	1.059	1.121	1.122	0.739	0.976	15.54
28) T cis-1,2-Dichlo...	2.018	2.033	2.703	2.314	2.205	2.250	2.252	2.222	2.250	9.40
29) T Diisopropyl Ether	1.155	1.224	1.532	1.408	1.329	1.407	1.482	1.548	1.386	10.24
30) T Ethyl Acetate			0.547	0.527	0.598	0.673	0.712	0.741	0.633	14.01
31) T n-Hexane	2.858	2.878	3.605	3.054	2.887	2.950	3.149	3.298	3.085	8.42

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

Title	2.288	2.357	3.101	2.678	2.528	2.559	2.566	2.581	2.582	9.48
32) T Chloroform	2.288	2.357	3.101	2.678	2.528	2.559	2.566	2.581	2.582	9.48
33) S 1,2-Dichloroet...	1.783	1.785	1.775	1.777	1.772	1.756	1.748	1.745	1.768	0.87
34) T Tetrahydrofura...	0.777	0.944	1.132	1.091	1.068	1.060	1.025	1.021	1.015	10.94
35) T Ethyl tert-But...	1.774	1.706	2.202	2.019	1.944	2.017	2.064	2.089	1.977	8.34
36) T 1,2-Dichloroet...	1.727	1.673	2.296	2.056	1.996	2.029	2.021	2.008	1.976	9.92
37) IR 1,4-Difluorobenzen...	-----ISTD-----									
38) T 1,1,1-Trichlor...	0.444	0.420	0.523	0.463	0.437	0.451	0.456	0.445	0.455	6.67
39) T Isopropyl Acetate	0.140	0.170	0.218	0.205	0.205	0.228	0.231	0.236	0.204	16.31
40) T 1-Butanol	0.193	0.296	0.289	0.324	0.388	0.392	0.385	0.324	0.324	22.49
41) T Benzene	1.392	1.274	1.620	1.363	1.255	1.281	1.288	1.283	1.344	9.01
42) T Carbon Tetrach...	0.325	0.355	0.434	0.386	0.359	0.378	0.384	0.386	0.376	8.32
43) T Cyclohexane	0.487	0.473	0.597	0.520	0.494	0.516	0.530	0.548	0.521	7.54
44) T tert-Amyl Meth...	0.885	0.846	1.058	0.930	0.920	0.958	0.977	0.986	0.945	6.91
45) T 1,2-Dichloropr...	0.287	0.294	0.386	0.342	0.323	0.336	0.336	0.335	0.330	9.28
46) T Bromodichlorom...	0.310	0.343	0.460	0.400	0.392	0.412	0.417	0.413	0.393	11.87
47) T Trichloroethene	0.350	0.332	0.393	0.342	0.315	0.328	0.331	0.341	0.341	6.80
48) T 1,4-Dioxane	0.149	0.181	0.262	0.247	0.250	0.272	0.277	0.275	0.239	19.91
49) T 2,2,4-Trimethy...	1.490	1.428	1.805	1.593	1.481	1.519	1.540	1.522	1.547	7.41
50) T Methyl Methacr...	0.126	0.120	0.127	0.140	0.140	0.140	0.144	0.149	0.134	8.76
51) T n-Heptane	0.318	0.311	0.430	0.377	0.344	0.357	0.362	0.363	0.358	10.30
52) T cis-1,3-Dichlo...	0.369	0.393	0.562	0.496	0.513	0.543	0.550	0.550	0.497	15.11
53) T 4-Methyl-2-pen...	0.183	0.286	0.279	0.295	0.295	0.328	0.332	0.330	0.291	18.02
54) T trans-1,3-Dich...	0.279	0.328	0.475	0.439	0.461	0.496	0.501	0.498	0.435	19.49
55) T 1,1,2-Trichlor...	0.220	0.242	0.336	0.299	0.290	0.302	0.303	0.305	0.287	13.09
56) IR Chlorobenzene-d5 (...)	-----ISTD-----									
57) S Toluene-d8 (SS2)	2.389	2.355	2.357	2.374	2.368	2.378	2.373	2.420	2.377	0.87
58) T Toluene	2.992	2.615	3.218	2.870	2.713	2.825	2.847	2.969	2.881	6.39
59) T 2-Hexanone	1.374	1.315	1.424	1.609	1.622	1.640	1.497	1.497	1.497	9.52
60) T Dibromochlorom...	0.498	0.484	0.692	0.611	0.611	0.658	0.666	0.701	0.615	13.57
61) T 1,2-Dibromoethane	0.480	0.540	0.721	0.653	0.655	0.697	0.706	0.736	0.648	14.14
62) T n-Butyl Acetate	0.946	1.471	1.454	1.644	1.883	1.948	2.090	1.634	23.73	23.73
63) T n-Octane	0.573	0.534	0.733	0.656	0.631	0.651	0.665	0.695	0.642	9.96
64) T Tetrachloroethene	0.653	0.633	0.813	0.718	0.674	0.715	0.728	0.785	0.715	8.69
65) T Chlorobenzene	1.711	1.658	1.998	1.775	1.674	1.736	1.755	1.847	1.769	6.22
66) T Ethylbenzene	2.866	2.701	3.479	3.120	3.007	3.146	3.209	3.355	3.111	8.11
67) T m- & p-Xylenes	2.202	2.207	2.735	2.430	2.352	2.488	2.570	2.744	2.466	8.56
68) T Bromoform	0.379	0.408	0.568	0.518	0.530	0.592	0.616	0.661	0.534	18.39
69) T Styrene	1.461	1.519	1.980	1.784	1.806	1.936	1.981	2.115	1.823	12.67
70) T o-Xylene	2.290	2.120	2.774	2.457	2.356	2.507	2.579	2.763	2.481	9.13

Method Path : J:\MS09\Methods\
 Method File : R9081309.M

Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71) T	n-Nonane	1.391	1.313	1.710	1.525	1.444	1.512	1.522	1.535	1.494	7.85
72) T	1,1,2,2-Tetrac...	0.879	0.869	1.168	1.042	1.050	1.120	1.157	1.240	1.066	12.60
73) S	Bromofluoroben...	0.673	0.671	0.674	0.671	0.671	0.677	0.676	0.671	0.673	0.39
74) T	Cumene	2.984	2.848	3.575	3.168	3.066	3.250	3.329	3.513	3.217	7.84
75) T	alpha-Pinene	1.402	1.392	1.723	1.533	1.537	1.629	1.680	1.799	1.587	9.28
76) T	n-Propylbenzene	3.674	3.502	4.445	3.969	3.822	4.041	4.126	4.224	3.975	7.65
77) T	3-Ethyltoluene	2.729	2.641	3.288	2.935	2.885	3.119	3.151	3.357	3.013	8.56
78) T	4-Ethyltoluene	2.922	2.595	3.364	2.976	2.853	2.991	3.174	3.361	3.029	8.63
79) T	1,3,5-Trimethy...	2.363	2.252	2.746	2.471	2.345	2.495	2.579	2.787	2.505	7.61
80) T	alpha-Methylst...	1.104	1.096	1.433	1.304	1.329	1.447	1.506	1.655	1.359	14.20
81) T	2-Ethyltoluene	2.902	2.717	3.467	3.084	2.953	3.115	3.211	3.445	3.112	8.35
82) T	1,2,4-Trimethy...	2.333	2.241	2.782	2.509	2.448	2.756	2.954	3.253	2.660	12.81
83) T	n-Decane	1.406	1.408	1.725	1.551	1.487	1.557	1.583	1.667	1.548	7.34
84) T	Benzyl Chloride	1.491	1.511	2.028	1.926	2.036	2.350	2.447	2.671	2.058	20.55
85) T	1,3-Dichlorobe...	1.210	1.172	1.550	1.346	1.295	1.384	1.445	1.613	1.377	11.26
86) T	1,4-Dichlorobe...	1.347	1.288	1.627	1.448	1.360	1.452	1.505	1.660	1.461	9.06
87) T	sec-Butylbenzene	3.353	3.011	3.930	3.477	3.335	3.526	3.611	3.794	3.505	8.16
88) T	4-Isopropyltol...	2.950	2.839	3.579	3.210	3.135	3.474	3.717	3.960	3.358	11.59
89) T	1,2,3-Trimethy...	2.386	2.250	2.845	2.562	2.467	2.766	2.966	3.263	2.688	12.46
90) T	1,2-Dichlorobe...	1.220	1.146	1.485	1.306	1.278	1.394	1.496	1.734	1.382	13.57
91) T	d-Limonene	0.937	0.883	1.147	1.025	1.046	1.162	1.214	1.291	1.088	12.84
92) T	1,2-Dibromo-3-...	0.295	0.296	0.441	0.401	0.429	0.466	0.485	0.526	0.417	20.10
93) T	n-Undecane	1.416	1.402	1.777	1.589	1.558	1.633	1.676	1.747	1.600	8.68
94) T	1,2,4-Trichlor...	0.808	0.826	1.050	0.940	0.928	0.973	1.039	1.161	0.966	12.19
95) T	Naphthalene	3.242	3.022	3.838	3.521	3.475	3.603	3.831	4.017	3.568	9.23
96) T	n-Dodecane	1.632	1.515	1.880	1.777	1.765	1.836	1.917	2.002	1.790	8.78
97) T	Hexachlorobuta...	0.472	0.478	0.593	0.532	0.519	0.556	0.594	0.670	0.552	12.05
98) T	Cyclohexanone	0.755	0.834	0.846	0.808	0.815	1.045	1.063	1.092	0.907	14.91
99) T	tert-Butylbenzene	2.347	2.275	2.769	2.506	2.410	2.702	2.885	3.206	2.638	11.91
100) T	n-Butylbenzene	2.446	2.495	3.071	2.751	2.686	2.854	2.924	3.088	2.789	8.64

(#) = Out of Range

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2009_08\13\08130926.D
2	0.2	0	25	J:\MS09\Data\2009_08\13\08130927.D
3	0.5	1	25	J:\MS09\Data\2009_08\13\08130928.D
4	1.0	1	25	J:\MS09\Data\2009_08\13\08130929.D
5	5.0	5	25	J:\MS09\Data\2009_08\13\08130930.D
6	25	27	25	J:\MS09\Data\2009_08\13\08130931.D
7	50	54	25	J:\MS09\Data\2009_08\13\08130932.D
8	100	107	25	J:\MS09\Data\2009_08\13\08130933.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 14 07:29 2009	Aug 14 07:05 2009	14 Aug 2009 1:56
2	0.2	Aug 14 07:30 2009	Aug 14 07:14 2009	14 Aug 2009 2:38
3	0.5	Aug 14 07:30 2009	Aug 14 07:20 2009	14 Aug 2009 3:19
4	1.0	Aug 14 07:30 2009	Aug 14 07:21 2009	14 Aug 2009 4:01
5	5.0	Aug 14 07:30 2009	Aug 14 07:23 2009	14 Aug 2009 4:43
6	25	Aug 14 07:31 2009	Aug 14 07:26 2009	14 Aug 2009 5:24
7	50	Aug 14 07:31 2009	Aug 14 07:27 2009	14 Aug 2009 6:06
8	100	Aug 14 07:31 2009	Aug 14 07:28 2009	14 Aug 2009 6:47

R9081309.M Fri Aug 14 07:48:55 2009

em 8/14/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID: S20-08100904

200ng/L Std. ID: S20-08100902
Dilution Factors: 5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)								
		200ng/L	20ng/L	4ng/L		0.025	0.05	0.025	0.050	0.25	0.125	0.25	0.50	
		0.1ng	0.2ng	0.5ng		1ng	5ng	25ng	50ng	100ng				
Propene	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Dichlorodifluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Chloromethane	1.00	200	20.0	4.00	0.100	0.200	0.500	1.00	5.00	25.0	50.0	100		
Freon-114	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Vinyl Chloride	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101		
1,3-Butadiene	1.20	240	24.0	4.80	0.120	0.240	0.600	1.20	6.00	30.0	60.0	120		
Bromomethane	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102		
Chloroethane	1.01	202	20.2	4.04	0.101	0.202	0.505	1.01	5.05	25.3	50.5	101		
Ethanol	5.20	1040	104	20.8	0.520	1.040	2.60	5.20	26.0	130	260	520		
Acetonitrile	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Acrolein	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Acetone	5.50	1100	110	22.0	0.550	1.100	2.75	5.50	27.5	138	275	550		
Trichlorofluoromethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Isopropanol	1.89	378	37.8	7.56	0.189	0.378	0.945	1.89	9.45	47.3	94.5	189		
Acrylonitrile	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1-Dichloroethene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
tert-Butanol	2.02	404	40.4	8.08	0.202	0.404	1.01	2.02	10.1	50.5	101	202		
Methylene Chloride	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Allyl Chloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Trichlorotrifluoroethane	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Carbon Disulfide	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
trans-1,2-Dichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Methyl tert-Butyl Ether	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Vinyl Acetate	5.02	1004	100	20.1	0.502	1.004	2.51	5.02	25.1	126	251	502		
2-Butanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
cis-1,2-Dichloroethene	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Diisopropyl Ether	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Ethyl Acetate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213		
n-Hexane	1.09	218	21.8	4.36	0.109	0.218	0.545	1.09	5.45	27.3	54.5	109		
Chloroform	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Tetrahydrofuran	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Ethyl tert-Butyl Ether	1.03	206	20.6	4.12	0.103	0.206	0.515	1.03	5.15	25.8	51.5	103		
1,2-Dichloroethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,1,1-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Isopropyl Acetate	2.09	418	41.8	8.36	0.209	0.418	1.05	2.09	10.5	52.3	105	209		
1-Butanol	2.07	414	41.4	8.28	0.207	0.414	1.04	2.07	10.4	51.8	104	207		
Benzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
Carbon Tetrachloride	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Cyclohexane	2.15	430	43.0	8.60	0.215	0.430	1.08	2.15	10.8	53.8	108	215		
tert-Amyl Methyl Ether	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104		
1,2-Dichloropropane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Bromodichloromethane	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Trichloroethene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
1,4-Dioxane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Isooctane	1.04	208	20.8	4.16	0.104	0.208	0.520	1.04	5.20	26.0	52.0	104		
Methyl Methacrylate	2.13	426	42.6	8.52	0.213	0.426	1.07	2.13	10.7	53.3	107	213		
n-Heptane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
cis-1,3-Dichloropropene	0.99	198	19.8	3.96	0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0		
4-Methyl-2-pentanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
trans-1,3-Dichloropropene	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
1,1,2-Trichloroethane	1.05	210	21.0	4.20	0.105	0.210	0.525	1.05	5.25	26.3	52.5	105		
Toluene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
2-Hexanone	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
Dibromochloromethane	1.15	230	23.0	4.60	0.115	0.230	0.575	1.15	5.75	28.8	57.5	115		
1,2-Dibromoethane	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
n-Butyl Acetate	1.10	220	22.0	4.40	0.110	0.220	0.550	1.10	5.50	27.5	55.0	110		
n-Octane	1.07	214	21.4	4.28	0.107	0.214	0.535	1.07	5.35	26.8	53.5	107		
Tetrachloroethene	1.02	204	20.4	4.08	0.102	0.204	0.510	1.02	5.10	25.5	51.0	102		
Chlorobenzene	1.08	216	21.6	4.32	0.108	0.216	0.540	1.08	5.40	27.0	54.0	108		
Ethylbenzene	1.06	212	21.2	4.24	0.106	0.212	0.530	1.06	5.30	26.5	53.0	106		
m-&p-Xylene	2.08	416	41.6	8.32	0.208	0.416	1.04	2.08	10.4	52.0	104	208		

Tom 8/14/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-07240912
20ng/L Std. ID: S20-08100904

200ng/L Std. ID: S20-08100902
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	0.050	0.025		0.05	0.25	0.125	0.25	0.50	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng
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.

Cam 8/14/09

Calibration Status Report MS09

Method Path : J:\MS09\Methods\
 Method File : R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:31:29 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS09\Data\2009_08\13\08130926.D
2	0.2	0	25	J:\MS09\Data\2009_08\13\08130927.D
3	0.5	1	25	J:\MS09\Data\2009_08\13\08130928.D
4	1.0	1	25	J:\MS09\Data\2009_08\13\08130929.D
5	5.0	5	25	J:\MS09\Data\2009_08\13\08130930.D
6	25	27	25	J:\MS09\Data\2009_08\13\08130931.D
7	50	54	25	J:\MS09\Data\2009_08\13\08130932.D
8	100	107	25	J:\MS09\Data\2009_08\13\08130933.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 14 07:29 2009	Aug 14 07:05 2009	14 Aug 2009 1:56
2	0.2	Aug 14 07:30 2009	Aug 14 07:14 2009	14 Aug 2009 2:38
3	0.5	Aug 14 07:30 2009	Aug 14 07:20 2009	14 Aug 2009 3:19
4	1.0	Aug 14 07:30 2009	Aug 14 07:21 2009	14 Aug 2009 4:01
5	5.0	Aug 14 07:30 2009	Aug 14 07:23 2009	14 Aug 2009 4:43
6	25	Aug 14 07:31 2009	Aug 14 07:26 2009	14 Aug 2009 5:24
7	50	Aug 14 07:31 2009	Aug 14 07:27 2009	14 Aug 2009 6:06
8	100	Aug 14 07:31 2009	Aug 14 07:28 2009	14 Aug 2009 6:47

R9081309.M Fri Aug 14 07:48:55 2009

em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	388910	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1986864	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	961494	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(... Spiked Amount 25.000	13.95	65	693371	25.200	ng	-0.04	Recovery = 100.80%
57) Toluene-d8 (SS2) Spiked Amount 25.000	19.14	98	2296672	24.144	ng	-0.02	Recovery = 96.56%
73) Bromofluorobenzene (SS3) Spiked Amount 25.000	23.49	174	646809	22.617	ng	0.00	Recovery = 90.48%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	3618	0.147	ng	98
3) Dichlorodifluoromethan...	5.03	85	4958	0.101	ng	# 88
4) Chloromethane	5.36	50	4388	0.120	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.61	135	2540	0.092	ng	85
6) Vinyl Chloride	5.81	62	4449	0.114	ng	88
7) 1,3-Butadiene	6.11	54	3356	0.119	ng	97
8) Bromomethane	6.60	94	2307	0.100	ng	99
9) Chloroethane	6.94	64	2024	0.103	ng	# 53
10) Ethanol	7.25	45	10733m	0.659	ng	
11) Acetonitrile	7.59	41	5267	0.143	ng	82
12) Acrolein	7.83	56	986	0.083	ng	87
13) Acetone	8.06	58	14865	0.803	ng	89
14) Trichlorofluoromethane	8.29	101	4018	0.094	ng	99
15) 2-Propanol (Isopropanol)	8.56	45	11494	0.236	ng	77
16) Acrylonitrile	8.84	53	1953	0.079	ng	89
17) 1,1-Dichloroethene	9.33	96	2785	0.128	ng	91
18) 2-Methyl-2-Propanol (t...	9.53	59	11686	0.213	ng	# 84
19) Methylene Chloride	9.53	84	3454	0.141	ng	90
20) 3-Chloro-1-propene (Al...	9.73	41	3161	0.119	ng	68
21) Trichlorotrifluoroethane	9.98	151	1761	0.091	ng	# 81
22) Carbon Disulfide	9.93	76	10199	0.122	ng	81
23) trans-1,2-Dichloroethene	10.99	61	3423	0.107	ng	87
24) 1,1-Dichloroethane	11.29	63	4712	0.121	ng	83
25) Methyl tert-Butyl Ether	11.46	73	7632	0.111	ng	94
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone (MEK)	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	12.57	61	3421	0.111	ng	88
29) Diisopropyl Ether	12.94	87	1922	0.088	ng	# 89
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.93	57	4846	0.113	ng	

375

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	3808	0.098	ng	92
34) Tetrahydrofuran (THF)	13.65	72	1329	0.100	ng	# 49
35) Ethyl tert-Butyl Ether	13.75	87	2842	0.097	ng	# 88
36) 1,2-Dichloroethane	14.14	62	2848	0.091	ng	# 63
38) 1,1,1-Trichloroethane	14.53	97	3702	0.102	ng	86
39) Isopropyl Acetate	15.13	61	2323	0.161	ng	# 40
40) 1-Butanol	15.23	56	2885	0.117	ng	# 48
41) Benzene	15.23	78	11726	0.111	ng	95
42) Carbon Tetrachloride	15.45	117	2792	0.090	ng	94
43) Cyclohexane	15.65	84	8323	0.210	ng	# 85
44) tert-Amyl Methyl Ether	16.14	73	7312	0.104	ng	95
45) 1,2-Dichloropropane	16.45	63	2391	0.107	ng	92
46) Bromodichloromethane	16.69	83	2661	0.087	ng	93
47) Trichloroethene	16.77	130	2951	0.109	ng	96
48) 1,4-Dioxane	16.78	88	1271	0.071	ng	# 58
49) 2,2,4-Trimethylpentane...	16.85	57	12314	0.120	ng	92
50) Methyl Methacrylate	17.07	100	553	0.056	ng	# 1
51) n-Heptane	17.21	71	2682	0.105	ng	93
52) cis-1,3-Dichloropropene	17.97	75	2905	0.078	ng	# 57
53) 4-Methyl-2-pentanone	18.04	58	915	N.D.		
54) trans-1,3-Dichloropropene	18.67	75	2439	0.075	ng	# 60
55) 1,1,2-Trichloroethane	18.90	97	1838	0.083	ng	99
58) Toluene	19.28	91	12428	0.107	ng	98
59) 2-Hexanone	19.68	43	1480	N.D.		
60) Dibromochloromethane	19.83	129	2204	0.084	ng	85
61) 1,2-Dibromoethane	20.15	107	1955	0.072	ng	94
62) n-Butyl Acetate	20.44	43	2958	0.053	ng	# 49
63) n-Octane	20.56	57	2356	0.104	ng	88
64) Tetrachloroethene	20.76	166	2562	0.083	ng	98
65) Chlorobenzene	21.62	112	7106	0.097	ng	98
66) Ethylbenzene	22.09	91	11683	0.092	ng	94
67) m- & p-Xylenes	22.32	91	17613	0.169	ng	99
68) Bromoform	22.42	173	1501	0.064	ng	# 65
69) Styrene	22.79	104	6011	0.078	ng	94
70) o-Xylene	22.92	91	9337	0.090	ng	95
71) n-Nonane	23.17	43	5669	0.112	ng	87
72) 1,1,2,2-Tetrachloroethane	22.89	83	3618	0.084	ng	92
74) Cumene	23.66	105	11820	0.086	ng	93
75) alpha-Pinene	24.15	93	5445	0.082	ng	99
76) n-Propylbenzene	24.28	91	14553	0.087	ng	93
77) 3-Ethyltoluene	24.41	105	11442	0.087	ng	100
78) 4-Ethyltoluene	24.46	105	12248	0.093	ng	95
79) 1,3,5-Trimethylbenzene	24.55	105	9904	0.091	ng	95

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:05:01 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	4543	0.074	ng	98
81) 2-Ethyltoluene	24.79	105	11719	0.085	ng	95
82) 1,2,4-Trimethylbenzene	25.05	105	9509	0.078	ng	100
83) n-Decane	25.15	57	5840	0.099	ng	89
84) Benzyl Chloride	25.22	91	6309	0.072	ng	92
85) 1,3-Dichlorobenzene	25.25	146	5071	0.079	ng	100
86) 1,4-Dichlorobenzene	25.33	146	5490	0.082	ng	97
87) sec-Butylbenzene	25.38	105	13671	0.089	ng	96
88) 4-Isopropyltoluene (p-...	25.56	119	11685	0.076	ng	96
89) 1,2,3-Trimethylbenzene	25.57	105	9819	0.079	ng	99
90) 1,2-Dichlorobenzene	25.75	146	4975	0.075	ng	99
91) d-Limonene	25.74	68	3927	0.081	ng	84
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1250	0.067	ng	# 78
93) n-Undecane	26.65	57	5934	0.098	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	3482	0.081	ng	# 95
95) Naphthalene	27.94	128	13216	0.088	ng	98
96) n-Dodecane	27.89	57	6214	0.096	ng	91
97) Hexachlorobutadiene	28.36	225	1995	0.081	ng	96
98) Cyclohexanone	22.55	55	2844	0.081	ng	# 82
99) tert-Butylbenzene	25.05	119	9567	0.077	ng	93
100) n-Butylbenzene	26.07	91	10255	0.084	ng	99

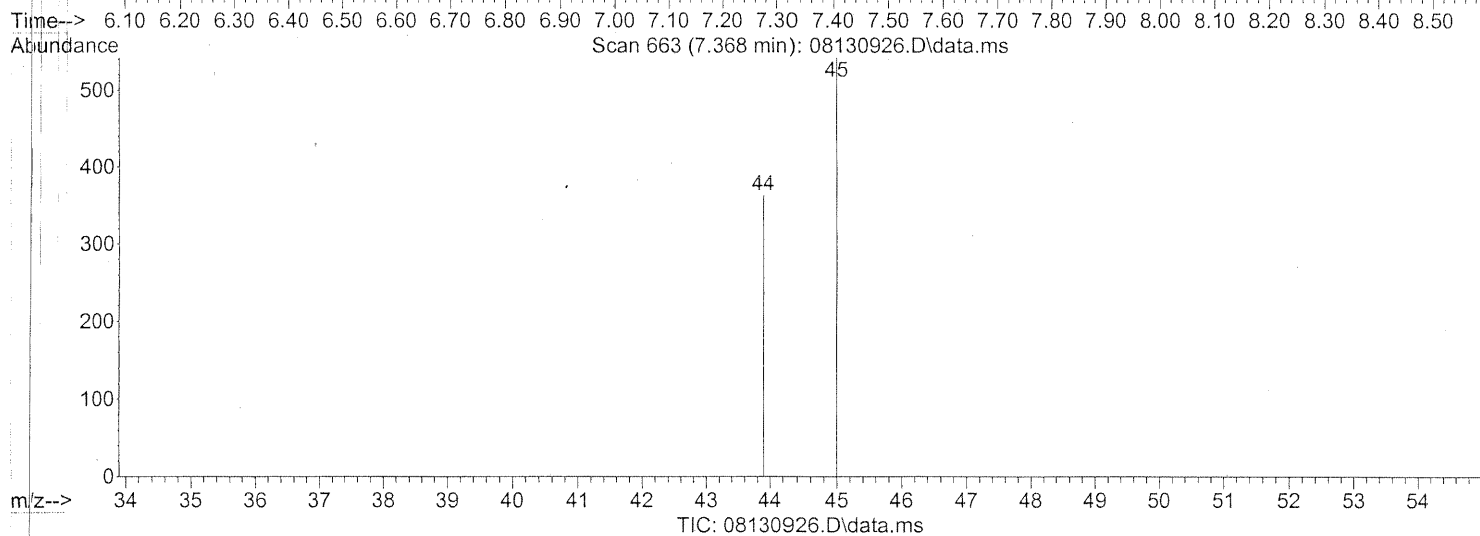
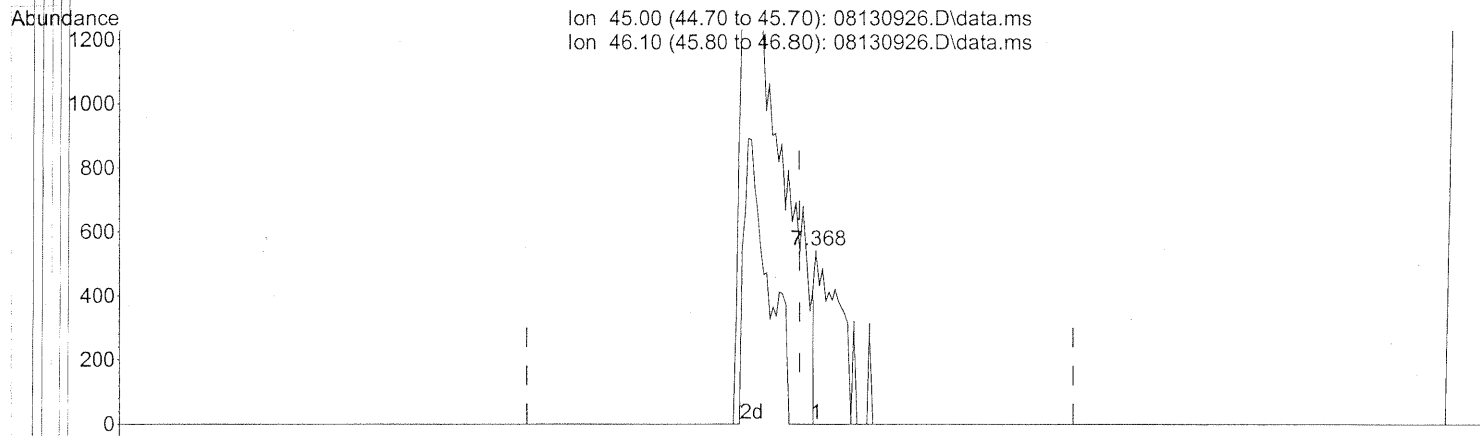
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130926.D
Acq On : 14 Aug 2009 1:56
Operator : EM
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-08130905/S20-07240912
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.368min (+0.029) 0.10ng
response 1639

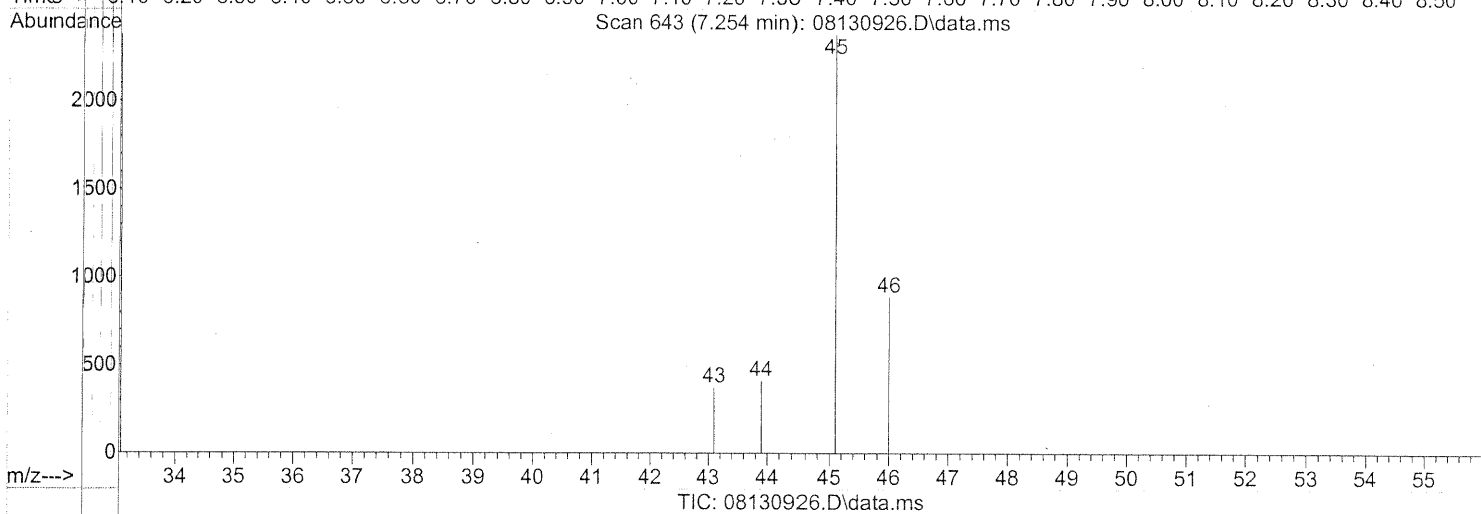
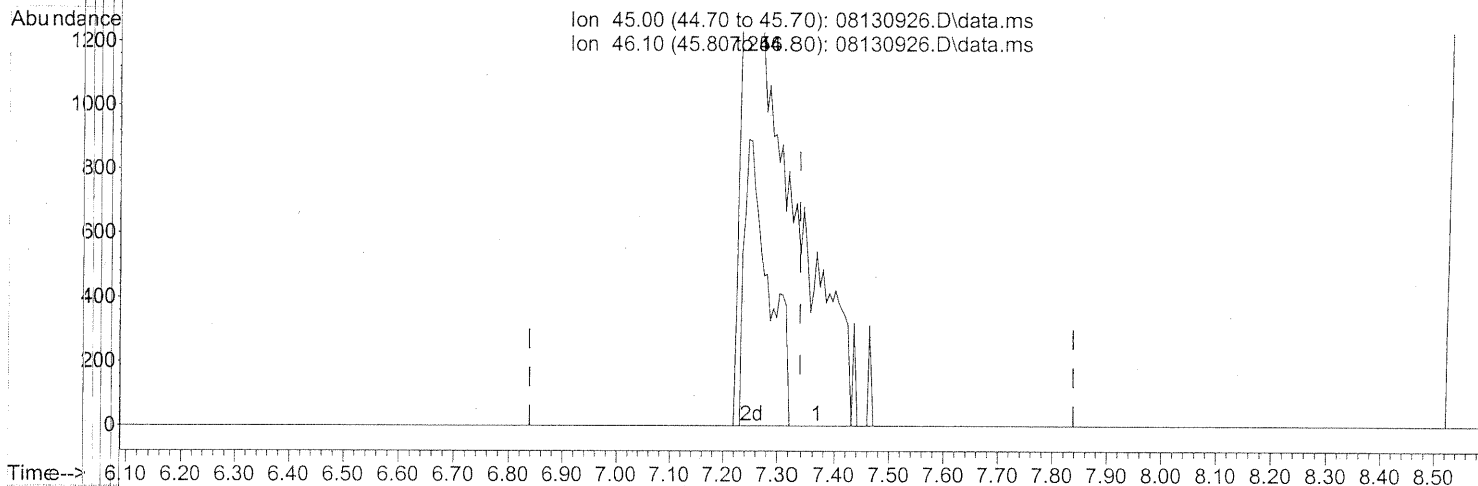
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130926.D
 Acq On : 14 Aug 2009 1:56
 Operator : EM
 Sample : 0.1ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:04:25 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.254min (-0.086) 0.66ng m
 response 10733

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

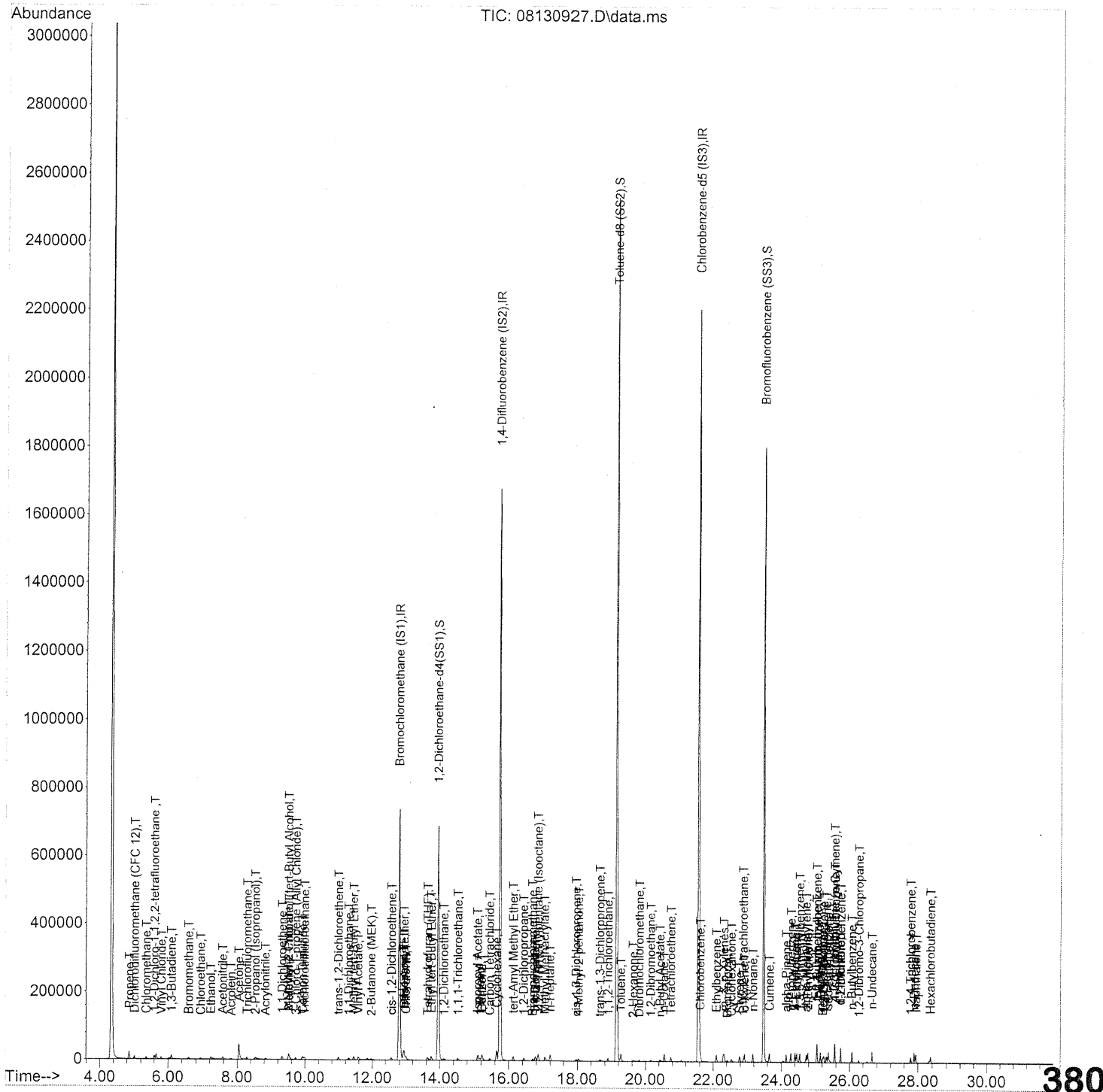
SP → IC
Em 8/14/09

EM 8/15/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	387904	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1988065	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	969971	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	692264	25.225	ng	-0.03
Spiked Amount	25.000		Recovery	=	100.92%	
57) Toluene-d8 (SS2)	19.14	98	2284146	23.803	ng	-0.02
Spiked Amount	25.000		Recovery	=	95.20%	
73) Bromofluorobenzene (SS3)	23.49	174	650502	22.548	ng	0.00
Spiked Amount	25.000		Recovery	=	90.20%	

Target Compounds

						Qvalue
2) Propene	4.87	42	6837	0.279	ng	97
3) Dichlorodifluoromethan...	5.02	85	10147	0.208	ng	95
4) Chloromethane	5.36	50	8936	0.244	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	5244	0.191	ng	89
6) Vinyl Chloride	5.81	62	8752	0.224	ng	91
7) 1,3-Butadiene	6.10	54	6814	0.243	ng	94
8) Bromomethane	6.60	94	4286	0.186	ng	92
9) Chloroethane	6.94	64	4242	0.217	ng	84
10) Ethanol	7.24	45	21624	1.332	ng	85
11) Acetonitrile	7.58	41	10541	0.287	ng	86
12) Acrolein	7.82	56	2810	0.237	ng	96
13) Acetone	8.05	58	26843	1.453	ng	93
14) Trichlorofluoromethane	8.29	101	8048	0.189	ng	100
15) 2-Propanol (Isopropanol)	8.53	45	23904	0.492	ng	96
16) Acrylonitrile	8.83	53	5080	0.205	ng	92
17) 1,1-Dichloroethene	9.32	96	5237	0.242	ng	94
18) 2-Methyl-2-Propanol (t...	9.52	59	23137	0.423	ng	93
19) Methylene Chloride	9.52	84	5947	0.243	ng	88
20) 3-Chloro-1-propene (Al...	9.73	41	6616	0.251	ng	84
21) Trichlorotrifluoroethane	9.98	151	3591	0.186	ng	91
22) Carbon Disulfide	9.93	76	19471	0.234	ng	95
23) trans-1,2-Dichloroethene	10.99	61	7192	0.226	ng	85
24) 1,1-Dichloroethane	11.30	63	8927	0.230	ng	93
25) Methyl tert-Butyl Ether	11.45	73	14779	0.216	ng	98
26) Vinyl Acetate	11.58	86	1274	0.289	ng	# 1
27) 2-Butanone (MEK)	11.97	72	1592	0.113	ng	# 1
28) cis-1,2-Dichloroethene	12.57	61	6876	0.224	ng	90
29) Diisopropyl Ether	12.94	87	4063	0.186	ng	# 86
30) Ethyl Acetate	12.95	61	1611	0.175	ng	96
31) n-Hexane	12.93	57	9734	0.228	ng	8

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.00	83	7826	0.202	ng	98
34) Tetrahydrofuran (THF)	13.64	72	3221	0.243	ng	# 69
35) Ethyl tert-Butyl Ether	13.75	87	5452	0.186	ng	# 80
36) 1,2-Dichloroethane	14.13	62	5503	0.177	ng	92
38) 1,1,1-Trichloroethane	14.53	97	7018	0.192	ng	98
39) Isopropyl Acetate	15.10	61	5649	0.390	ng	# 69
40) 1-Butanol	15.17	56	6339	0.257	ng	89
41) Benzene	15.22	78	21485	0.203	ng	96
42) Carbon Tetrachloride	15.45	117	6103	0.196	ng	91
43) Cyclohexane	15.65	84	16172	0.408	ng	86
44) tert-Amyl Methyl Ether	16.14	73	13999	0.200	ng	94
45) 1,2-Dichloropropane	16.43	63	4918	0.220	ng	99
46) Bromodichloromethane	16.69	83	5890	0.192	ng	95
47) Trichloroethene	16.77	130	5590	0.206	ng	98
48) 1,4-Dioxane	16.77	88	3080	0.173	ng	100
49) 2,2,4-Trimethylpentane...	16.85	57	23620	0.230	ng	93
50) Methyl Methacrylate	17.05	100	2700	0.272	ng	# 80
51) n-Heptane	17.20	71	5246	0.204	ng	91
52) cis-1,3-Dichloropropene	17.96	75	6183	0.166	ng	93
53) 4-Methyl-2-pentanone	18.03	58	3201	0.159	ng	70
54) trans-1,3-Dichloropropene	18.66	75	5739	0.175	ng	84
55) 1,1,2-Trichloroethane	18.90	97	4035	0.181	ng	90
58) Toluene	19.28	91	21913	0.187	ng	99
59) 2-Hexanone	19.64	43	6660	0.132	ng	82
60) Dibromochloromethane	19.82	129	4315	0.163	ng	96
61) 1,2-Dibromoethane	20.15	107	4442	0.163	ng	99
62) n-Butyl Acetate	20.43	43	8074	0.144	ng	86
63) n-Octane	20.55	57	4432	0.193	ng	95
64) Tetrachloroethene	20.75	166	5009	0.161	ng	96
65) Chlorobenzene	21.62	112	13897	0.188	ng	94
66) Ethylbenzene	22.09	91	22216	0.174	ng	99
67) m- & p-Xylenes	22.32	91	35625	0.338	ng	96
68) Bromoform	22.42	173	3262	0.139	ng	90
69) Styrene	22.78	104	12611	0.162	ng	95
70) o-Xylene	22.92	91	17434	0.166	ng	97
71) n-Nonane	23.17	43	10801	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	7219	0.165	ng	100
74) Cumene	23.66	105	22760	0.163	ng	98
75) alpha-Pinene	24.15	93	10911	0.164	ng	97
76) n-Propylbenzene	24.29	91	27992	0.167	ng	100
77) 3-Ethyltoluene	24.41	105	22341	0.169	ng	99
78) 4-Ethyltoluene	24.46	105	21950	0.166	ng	99
79) 1,3,5-Trimethylbenzene	24.55	105	19048	0.173	ng	98

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130927.D
 Acq On : 14 Aug 2009 2:38
 Operator : EM
 Sample : 0.2ng TO-15 ICAL STD
 Misc : S20-08130905/S20-07240912
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 14 07:14:00 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	9096	0.148	ng	94
81) 2-Ethyltoluene	24.79	105	22138	0.160	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	18432	0.150	ng	99
83) n-Decane	25.15	57	11801	0.198	ng	93
84) Benzyl Chloride	25.22	91	12901	0.146	ng	92
85) 1,3-Dichlorobenzene	25.25	146	9910	0.153	ng	99
86) 1,4-Dichlorobenzene	25.33	146	10593	0.157	ng	99
87) sec-Butylbenzene	25.38	105	24768	0.161	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	22687	0.146	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	18683	0.149	ng	99
90) 1,2-Dichlorobenzene	25.74	146	9423	0.140	ng	99
91) d-Limonene	25.74	68	7469	0.153	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	2528	0.134	ng	79
93) n-Undecane	26.65	57	11857	0.194	ng	93
94) 1,2,4-Trichlorobenzene	27.79	180	7181	0.165	ng	94
95) Naphthalene	27.94	128	24854	0.164	ng	98
96) n-Dodecane	27.89	57	11636	0.179	ng	92
97) Hexachlorobutadiene	28.36	225	4076	0.164	ng	100
98) Cyclohexanone	22.54	55	6345	0.179	ng	# 80
99) tert-Butylbenzene	25.05	119	18711	0.150	ng	97
100) n-Butylbenzene	26.07	91	21106	0.172	ng	97

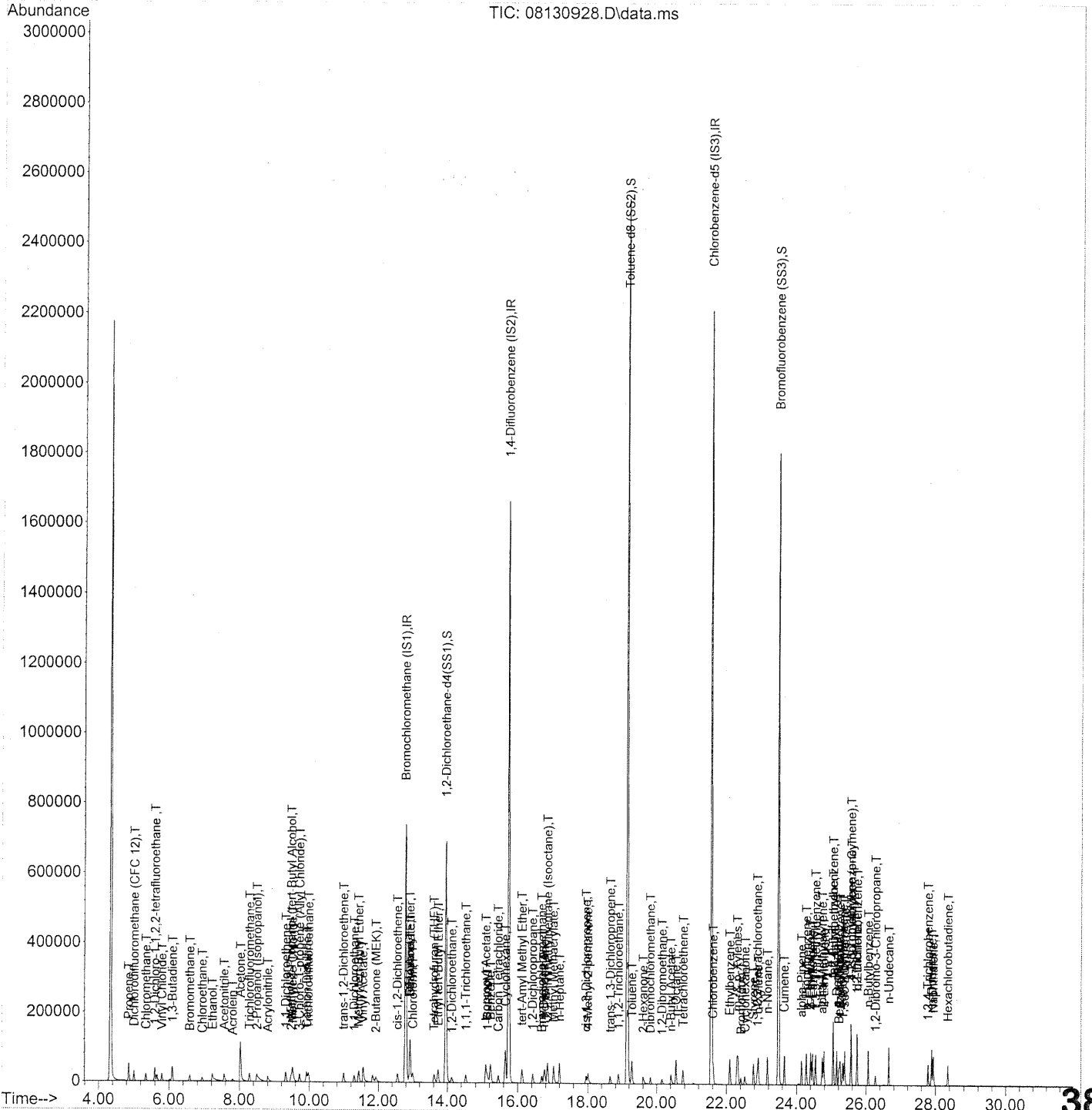
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130928.D
Acq On : 14 Aug 2009 3:19
Operator : EM
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.80	130	387943	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.74	114	1964748	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.56	82	963338	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.95	65	688763	25.095	ng	-0.03
Spiked Amount	25.000		Recovery	=	100.40%	
57) Toluene-d8 (SS2)	19.14	98	2270133	23.819	ng	-0.02
Spiked Amount	25.000		Recovery	=	95.28%	
73) Bromofluorobenzene (SS3)	23.49	174	649766	22.677	ng	0.00
Spiked Amount	25.000		Recovery	=	90.72%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	17385	0.710	ng	95
3) Dichlorodifluoromethan...	5.01	85	30715	0.629	ng	99
4) Chloromethane	5.35	50	27825	0.761	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	16234	0.590	ng	100
6) Vinyl Chloride	5.80	62	27174	0.697	ng	98
7) 1,3-Butadiene	6.09	54	22656	0.808	ng	97
8) Bromomethane	6.59	94	14465	0.629	ng	99
9) Chloroethane	6.94	64	13353	0.684	ng	98
10) Ethanol	7.23	45	60616	3.733	ng	99
11) Acetonitrile	7.56	41	31606	0.861	ng	97
12) Acrolein	7.80	56	8567	0.724	ng	99
13) Acetone	8.03	58	64613	3.498	ng	95
14) Trichlorofluoromethane	8.29	101	26206	0.616	ng	99
15) 2-Propanol (Isopropanol)	8.50	45	75804	1.560	ng	98
16) Acrylonitrile	8.80	53	18881	0.762	ng	99
17) 1,1-Dichloroethene	9.32	96	15523	0.716	ng	96
18) 2-Methyl-2-Propanol (t...	9.48	59	71705	1.310	ng	# 68
19) Methylene Chloride	9.52	84	16956	0.693	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	22154	0.839	ng	86
21) Trichlorotrifluoroethane	9.98	151	12159	0.630	ng	94
22) Carbon Disulfide	9.93	76	59708	0.717	ng	99
23) trans-1,2-Dichloroethene	10.98	61	23100	0.727	ng	91
24) 1,1-Dichloroethane	11.30	63	28384	0.733	ng	98
25) Methyl tert-Butyl Ether	11.42	73	45062	0.660	ng	96
26) Vinyl Acetate	11.56	86	8549	1.941	ng	# 31
27) 2-Butanone (MEK)	11.93	72	7703	0.547	ng	# 14
28) cis-1,2-Dichloroethene	12.56	61	22859	0.746	ng	91
29) Diisopropyl Ether	12.92	87	12722	0.581	ng	# 75
30) Ethyl Acetate	12.93	61	9081	0.984	ng	98
31) n-Hexane	12.92	57	30486	0.714	ng	98

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	25741	0.664	ng	99
34) Tetrahydrofuran (THF)	13.61	72	9662	0.728	ng #	69
35) Ethyl tert-Butyl Ether	13.73	87	17600	0.600	ng #	86
36) 1,2-Dichloroethane	14.13	62	18883	0.608	ng	98
38) 1,1,1-Trichloroethane	14.53	97	21567	0.598	ng	99
39) Isopropyl Acetate	15.09	61	18003	1.258	ng #	76
40) 1-Butanol	15.14	56	24186	0.991	ng #	5
41) Benzene	15.23	78	67490	0.644	ng	97
42) Carbon Tetrachloride	15.45	117	18399	0.598	ng	99
43) Cyclohexane	15.65	84	50652	1.293	ng	87
44) tert-Amyl Methyl Ether	16.12	73	43234	0.624	ng	98
45) 1,2-Dichloropropane	16.43	63	15929	0.721	ng	99
46) Bromodichloromethane	16.69	83	19513	0.644	ng	99
47) Trichloroethene	16.77	130	16351	0.611	ng	99
48) 1,4-Dioxane	16.75	88	11029	0.625	ng	88
49) 2,2,4-Trimethylpentane...	16.86	57	73776	0.727	ng	94
50) Methyl Methacrylate	17.03	100	10559	1.075	ng	90
51) n-Heptane	17.21	71	17902	0.706	ng	96
52) cis-1,3-Dichloropropene	17.95	75	21881	0.596	ng	96
53) 4-Methyl-2-pentanone	18.00	58	12377	0.624	ng	89
54) trans-1,3-Dichloropropene	18.66	75	20538	0.635	ng	94
55) 1,1,2-Trichloroethane	18.89	97	13863	0.630	ng	98
58) Toluene	19.28	91	66952	0.574	ng	99
59) 2-Hexanone	19.60	43	29124	0.580	ng	87
60) Dibromochloromethane	19.82	129	15336	0.585	ng	96
61) 1,2-Dibromoethane	20.15	107	14720	0.545	ng	97
62) n-Butyl Acetate	20.40	43	31166	0.559	ng	97
63) n-Octane	20.56	57	15118	0.663	ng	92
64) Tetrachloroethene	20.76	166	15982	0.518	ng	98
65) Chlorobenzene	21.62	112	41581	0.567	ng	100
66) Ethylbenzene	22.09	91	71057	0.560	ng	96
67) m- & p-Xylenes	22.31	91	109600	1.048	ng	99
68) Bromoform	22.42	173	11272	0.482	ng	99
69) Styrene	22.77	104	40825	0.529	ng	99
70) o-Xylene	22.92	91	56661	0.544	ng	99
71) n-Nonane	23.17	43	34926	0.686	ng	91
72) 1,1,2,2-Tetrachloroethane	22.89	83	24083	0.556	ng	98
74) Cumene	23.65	105	70945	0.513	ng	98
75) alpha-Pinene	24.15	93	33531	0.507	ng	99
76) n-Propylbenzene	24.28	91	88210	0.529	ng	99
77) 3-Ethyltoluene	24.40	105	69045	0.526	ng	98
78) 4-Ethyltoluene	24.46	105	70642	0.537	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	57676	0.527	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130928.D
 Acq On : 14 Aug 2009 3:19
 Operator : EM
 Sample : 0.5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:20:31 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	29532	0.482	ng	96
81) 2-Ethyltoluene	24.79	105	70128	0.510	ng	98
82) 1,2,4-Trimethylbenzene	25.05	105	56820	0.464	ng	97
83) n-Decane	25.15	57	35901	0.607	ng	95
84) Benzyl Chloride	25.22	91	42984	0.490	ng	98
85) 1,3-Dichlorobenzene	25.25	146	32555	0.507	ng	99
86) 1,4-Dichlorobenzene	25.33	146	33227	0.496	ng	100
87) sec-Butylbenzene	25.38	105	80257	0.524	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	71025	0.460	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	58655	0.470	ng	99
90) 1,2-Dichlorobenzene	25.75	146	30332	0.454	ng	100
91) d-Limonene	25.74	68	24087	0.495	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.27	157	9351	0.498	ng	89
93) n-Undecane	26.65	57	37313	0.616	ng	95
94) 1,2,4-Trichlorobenzene	27.79	180	22652	0.526	ng	99
95) Naphthalene	27.94	128	78387	0.522	ng	100
96) n-Dodecane	27.89	57	35864	0.554	ng	97
97) Hexachlorobutadiene	28.36	225	12566	0.510	ng	97
98) Cyclohexanone	22.53	55	15980	0.454	ng	92
99) tert-Butylbenzene	25.05	119	56558	0.457	ng	100
100) n-Butylbenzene	26.07	91	64485	0.529	ng	98

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

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	385393	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1968754	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	961740	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.95	65	684680	25.111	ng	-0.03
Spiked Amount	25.000			Recovery =	100.44%	
57) Toluene-d8 (SS2)	19.14	98	2283397	23.998	ng	-0.02
Spiked Amount	25.000			Recovery =	96.00%	
73) Bromofluorobenzene (SS3)	23.49	174	645460	22.564	ng	0.00
Spiked Amount	25.000			Recovery =	90.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	29829	1.227	ng	97
3) Dichlorodifluoromethan...	5.01	85	52865	1.090	ng	99
4) Chloromethane	5.35	50	47868	1.317	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	28143	1.030	ng	98
6) Vinyl Chloride	5.80	62	46770	1.207	ng	98
7) 1,3-Butadiene	6.09	54	39034	1.402	ng	96
8) Bromomethane	6.59	94	24199	1.059	ng	99
9) Chloroethane	6.94	64	23852	1.231	ng	99
10) Ethanol	7.22	45	108628	6.734	ng	100
11) Acetonitrile	7.56	41	56154	1.539	ng	98
12) Acrolein	7.80	56	15400	1.309	ng	97
13) Acetone	8.01	58	112407	6.126	ng	94
14) Trichlorofluoromethane	8.29	101	45022	1.065	ng	99
15) 2-Propanol (Isopropanol)	8.48	45	135858	2.814	ng	99
16) Acrylonitrile	8.80	53	34799	1.414	ng	99
17) 1,1-Dichloroethene	9.32	96	26402	1.227	ng	95
18) 2-Methyl-2-Propanol (t...	9.46	59	127946	2.353	ng	95
19) Methylene Chloride	9.52	84	28073	1.155	ng	86
20) 3-Chloro-1-propene (Al...	9.72	41	39535	1.508	ng	89
21) Trichlorotrifluoroethane	9.98	151	20891	1.090	ng	95
22) Carbon Disulfide	9.93	76	102252	1.236	ng	98
23) trans-1,2-Dichloroethene	10.99	61	40695	1.289	ng	93
24) 1,1-Dichloroethane	11.30	63	48687	1.265	ng	98
25) Methyl tert-Butyl Ether	11.42	73	79993	1.179	ng	96
26) Vinyl Acetate	11.56	86	17582	4.017	ng	# 44
27) 2-Butanone (MEK)	11.91	72	15476	1.106	ng	# 70
28) cis-1,2-Dichloroethene	12.57	61	38880	1.276	ng	94
29) Diisopropyl Ether	12.91	87	23217	1.067	ng	# 79
30) Ethyl Acetate	12.91	61	17295	1.887	ng	98
31) n-Hexane	12.92	57	51322	1.211	ng	98

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	44169	1.147	ng	99
34) Tetrahydrofuran (THF)	13.61	72	18493	1.402	ng #	78
35) Ethyl tert-Butyl Ether	13.73	87	32059	1.099	ng #	88
36) 1,2-Dichloroethane	14.13	62	33602	1.089	ng	100
38) 1,1,1-Trichloroethane	14.53	97	38262	1.060	ng	99
39) Isopropyl Acetate	15.09	61	33761	2.355	ng #	85
40) 1-Butanol	15.13	56	47102	1.925	ng #	74
41) Benzene	15.23	78	113746	1.083	ng	99
42) Carbon Tetrachloride	15.46	117	32803	1.064	ng	98
43) Cyclohexane	15.65	84	88044	2.243	ng	87
44) tert-Amyl Methyl Ether	16.11	73	76135	1.097	ng	97
45) 1,2-Dichloropropane	16.43	63	28251	1.276	ng	100
46) Bromodichloromethane	16.69	83	33986	1.120	ng	99
47) Trichloroethene	16.77	130	28512	1.063	ng	100
48) 1,4-Dioxane	16.74	88	20845	1.180	ng	92
49) 2,2,4-Trimethylpentane...	16.85	57	130464	1.282	ng	93
50) Methyl Methacrylate	17.02	100	20121	2.044	ng #	88
51) n-Heptane	17.20	71	31494	1.239	ng	96
52) cis-1,3-Dichloropropene	17.95	75	38638	1.049	ng	99
53) 4-Methyl-2-pentanone	18.00	58	24206	1.218	ng	89
54) trans-1,3-Dichloropropene	18.65	75	38043	1.174	ng	99
55) 1,1,2-Trichloroethane	18.89	97	24731	1.121	ng	97
58) Toluene	19.28	91	119238	1.024	ng	99
59) 2-Hexanone	19.60	43	55664	1.111	ng	92
60) Dibromochloromethane	19.82	129	27040	1.032	ng	99
61) 1,2-Dibromoethane	20.15	107	26630	0.987	ng	99
62) n-Butyl Acetate	20.40	43	61529	1.105	ng	98
63) n-Octane	20.56	57	26993	1.186	ng	92
64) Tetrachloroethene	20.75	166	28187	0.915	ng	99
65) Chlorobenzene	21.62	112	73763	1.007	ng	100
66) Ethylbenzene	22.09	91	127246	1.005	ng	97
67) m- & p-Xylenes	22.32	91	194401	1.861	ng	99
68) Bromoform	22.41	173	20518	0.879	ng	99
69) Styrene	22.77	104	73446	0.954	ng	100
70) o-Xylene	22.92	91	100172	0.963	ng	98
71) n-Nonane	23.17	43	62203	1.225	ng	92
72) 1,1,2,2-Tetrachloroethane	22.89	83	42899	0.991	ng	100
74) Cumene	23.65	105	125520	0.908	ng	97
75) alpha-Pinene	24.15	93	59580	0.902	ng	99
76) n-Propylbenzene	24.28	91	157275	0.945	ng	98
77) 3-Ethyltoluene	24.40	105	123089	0.940	ng	99
78) 4-Ethyltoluene	24.46	105	124771	0.950	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	103623	0.948	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130929.D
 Acq On : 14 Aug 2009 4:01
 Operator : EM
 Sample : 1.0ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:21:44 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	53658	0.878	ng	96
81) 2-Ethyltoluene	24.79	105	124584	0.908	ng	97
82) 1,2,4-Trimethylbenzene	25.05	105	102293	0.837	ng	100
83) n-Decane	25.15	57	64455	1.092	ng	94
84) Benzyl Chloride	25.21	91	81497	0.930	ng	98
85) 1,3-Dichlorobenzene	25.25	146	56441	0.880	ng	100
86) 1,4-Dichlorobenzene	25.33	146	59032	0.883	ng	98
87) sec-Butylbenzene	25.38	105	141772	0.928	ng	98
88) 4-Isopropyltoluene (p-...	25.56	119	127195	0.826	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	105475	0.847	ng	99
90) 1,2-Dichlorobenzene	25.74	146	53268	0.799	ng	100
91) d-Limonene	25.74	68	42966	0.885	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	16960	0.906	ng	91
93) n-Undecane	26.65	57	66615	1.102	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	40513	0.942	ng	100
95) Naphthalene	27.94	128	143580	0.957	ng	99
96) n-Dodecane	27.89	57	67663	1.047	ng	94
97) Hexachlorobutadiene	28.36	225	22500	0.914	ng	97
98) Cyclohexanone	22.52	55	30464	0.867	ng	93
99) tert-Butylbenzene	25.05	119	102193	0.827	ng	100
100) n-Butylbenzene	26.06	91	115342	0.948	ng	99

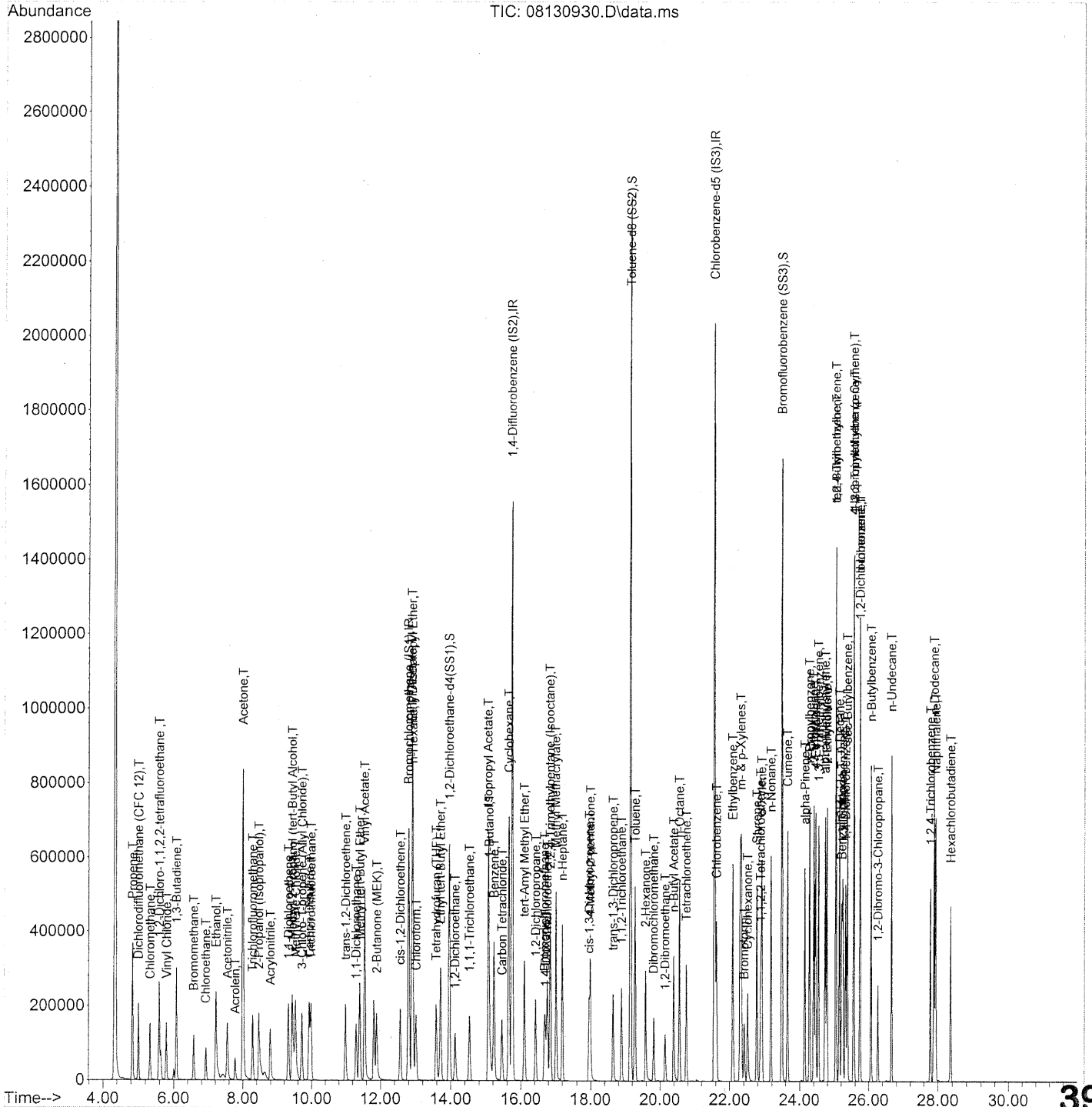
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.80	130	356661	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.75	114	1839686	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	890260	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.96	65	631936	25.044	ng	-0.03
Spiked Amount	25.000		Recovery	=	100.16%	
57) Toluene-d8 (SS2)	19.15	98	2108383	23.938	ng	-0.01
Spiked Amount	25.000		Recovery	=	95.76%	
73) Bromofluorobenzene (SS3)	23.49	174	597126	22.551	ng	0.00
Spiked Amount	25.000		Recovery	=	90.20%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	170359	7.571	ng	96
3) Dichlorodifluoromethan...	5.00	85	230084	5.124	ng	99
4) Chloromethane	5.33	50	205078	6.099	ng	97
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	119794	4.737	ng	99
6) Vinyl Chloride	5.79	62	201673	5.626	ng	98
7) 1,3-Butadiene	6.08	54	174352	6.764	ng	98
8) Bromomethane	6.57	94	105980	5.012	ng	99
9) Chloroethane	6.92	64	101343	5.650	ng	100
10) Ethanol	7.22	45	503955m	33.755	ng	
11) Acetonitrile	7.55	41	248065	7.348	ng	100
12) Acrolein	7.78	56	72285	6.641	ng	98
13) Acetone	8.00	58	487378	28.701	ng	91
14) Trichlorofluoromethane	8.28	101	194921	4.983	ng	99
15) 2-Propanol (Isopropanol)	8.46	45	476882m	10.673	ng	
16) Acrylonitrile	8.79	53	169954	7.460	ng	97
17) 1,1-Dichloroethene	9.32	96	116215	5.835	ng	97
18) 2-Methyl-2-Propanol (t...	9.43	59	580085	11.527	ng	96
19) Methylene Chloride	9.53	84	121460	5.402	ng	88
20) 3-Chloro-1-propene (Al...	9.72	41	183785	7.574	ng	88
21) Trichlorotrifluoroethane	9.98	151	93260	5.256	ng	96
22) Carbon Disulfide	9.93	76	452470	5.908	ng	98
23) trans-1,2-Dichloroethene	10.99	61	180824	6.190	ng	92
24) 1,1-Dichloroethane	11.30	63	216980	6.093	ng	99
25) Methyl tert-Butyl Ether	11.40	73	365953	5.827	ng	96
26) Vinyl Acetate	11.54	86	100963	24.928	ng	# 65
27) 2-Butanone (MEK)	11.89	72	83061	6.413	ng	# 77
28) cis-1,2-Dichloroethene	12.57	61	171418	6.081	ng	93
29) Diisopropyl Ether	12.90	87	101448	5.039	ng	# 66
30) Ethyl Acetate	12.90	61	91320	10.764	ng	99
31) n-Hexane	12.92	57	224482	5.722	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	13.01	83	192914	5.415	ng	99
34) Tetrahydrofuran (THF)	13.58	72	83814	6.867	ng #	86
35) Ethyl tert-Butyl Ether	13.71	87	142829	5.293	ng #	86
36) 1,2-Dichloroethane	14.13	62	150902	5.284	ng	99
38) 1,1,1-Trichloroethane	14.53	97	168717	5.000	ng	99
39) Isopropyl Acetate	15.06	61	158534	11.834	ng #	79
40) 1-Butanol	15.09	56	248323	10.863	ng	81
41) Benzene	15.23	78	489432	4.989	ng	98
42) Carbon Tetrachloride	15.46	117	142799	4.955	ng	100
43) Cyclohexane	15.65	84	392518	10.699	ng	89
44) tert-Amyl Methyl Ether	16.10	73	352122	5.430	ng	98
45) 1,2-Dichloropropane	16.43	63	124973	6.043	ng	98
46) Bromodichloromethane	16.69	83	155746	5.492	ng	98
47) Trichloroethene	16.77	130	122841	4.899	ng	99
48) 1,4-Dioxane	16.72	88	98401	5.959	ng	91
49) 2,2,4-Trimethylpentane...	16.85	57	566857	5.963	ng	93
50) Methyl Methacrylate	17.02	100	99872	10.855	ng	90
51) n-Heptane	17.21	71	134268	5.652	ng	95
52) cis-1,3-Dichloropropene	17.95	75	186847	5.431	ng	98
53) 4-Methyl-2-pentanone	17.99	58	119233	6.420	ng	95
54) trans-1,3-Dichloropropene	18.64	75	186516	6.159	ng	98
55) 1,1,2-Trichloroethane	18.88	97	112218	5.445	ng	99
58) Toluene	19.28	91	521746	4.839	ng	100
59) 2-Hexanone	19.58	43	278990	6.017	ng	99
60) Dibromochloromethane	19.82	129	125108	5.160	ng	99
61) 1,2-Dibromoethane	20.15	107	123637	4.951	ng	100
62) n-Butyl Acetate	20.39	43	322004	6.246	ng	98
63) n-Octane	20.56	57	120268	5.709	ng	91
64) Tetrachloroethene	20.75	166	122324	4.291	ng	100
65) Chlorobenzene	21.62	112	321850	4.745	ng	99
66) Ethylbenzene	22.09	91	567585	4.841	ng	98
67) m- & p-Xylenes	22.32	91	871075	9.010	ng	100
68) Bromoform	22.41	173	97277	4.503	ng	100
69) Styrene	22.77	104	344065	4.826	ng	99
70) o-Xylene	22.92	91	444727	4.618	ng	99
71) n-Nonane	23.17	43	272588	5.797	ng	93
72) 1,1,2,2-Tetrachloroethane	22.88	83	199967	4.992	ng	100
74) Cumene	23.65	105	562278	4.396	ng	98
75) alpha-Pinene	24.15	93	276329	4.521	ng	99
76) n-Propylbenzene	24.28	91	700875	4.549	ng	99
77) 3-Ethyltoluene	24.40	105	559902	4.619	ng	98
78) 4-Ethyltoluene	24.46	105	553680	4.552	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	455198	4.500	ng	99

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:40 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.73	118	253262	4.476	ng	99
81) 2-Ethyltoluene	24.79	105	552087	4.348	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	462116	4.084	ng	99
83) n-Decane	25.15	57	285891	5.231	ng	94
84) Benzyl Chloride	25.21	91	398762	4.917	ng	98
85) 1,3-Dichlorobenzene	25.25	146	251311	4.232	ng	100
86) 1,4-Dichlorobenzene	25.32	146	256766	4.150	ng	100
87) sec-Butylbenzene	25.38	105	629377	4.449	ng	99
88) 4-Isopropyltoluene (p-...	25.56	119	574902	4.031	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	470067	4.080	ng	98
90) 1,2-Dichlorobenzene	25.75	146	241180	3.907	ng	100
91) d-Limonene	25.74	68	203082	4.518	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.26	157	84105	4.852	ng	96
93) n-Undecane	26.65	57	302353	5.403	ng	96
94) 1,2,4-Trichlorobenzene	27.79	180	185058	4.646	ng	99
95) Naphthalene	27.94	128	655899	4.724	ng	99
96) n-Dodecane	27.89	57	311207	5.204	ng	96
97) Hexachlorobutadiene	28.36	225	101578	4.458	ng	98
98) Cyclohexanone	22.51	55	142237	4.374	ng	94
99) tert-Butylbenzene	25.05	119	454889	3.978	ng	99
100) n-Butylbenzene	26.06	91	521247	4.628	ng	99

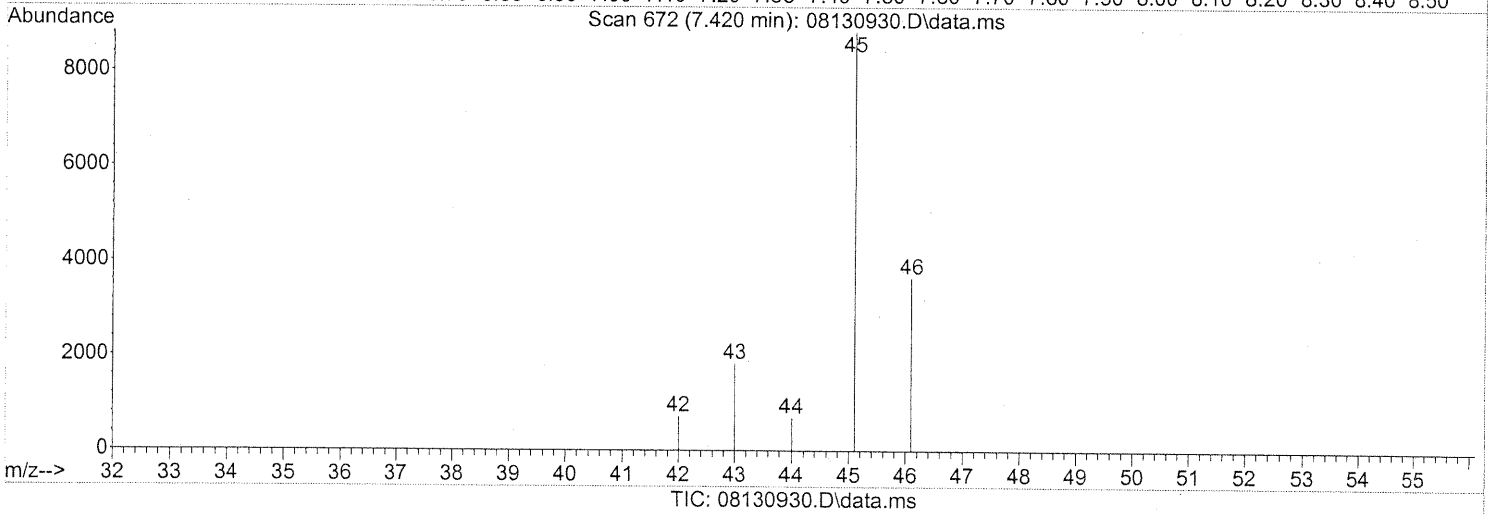
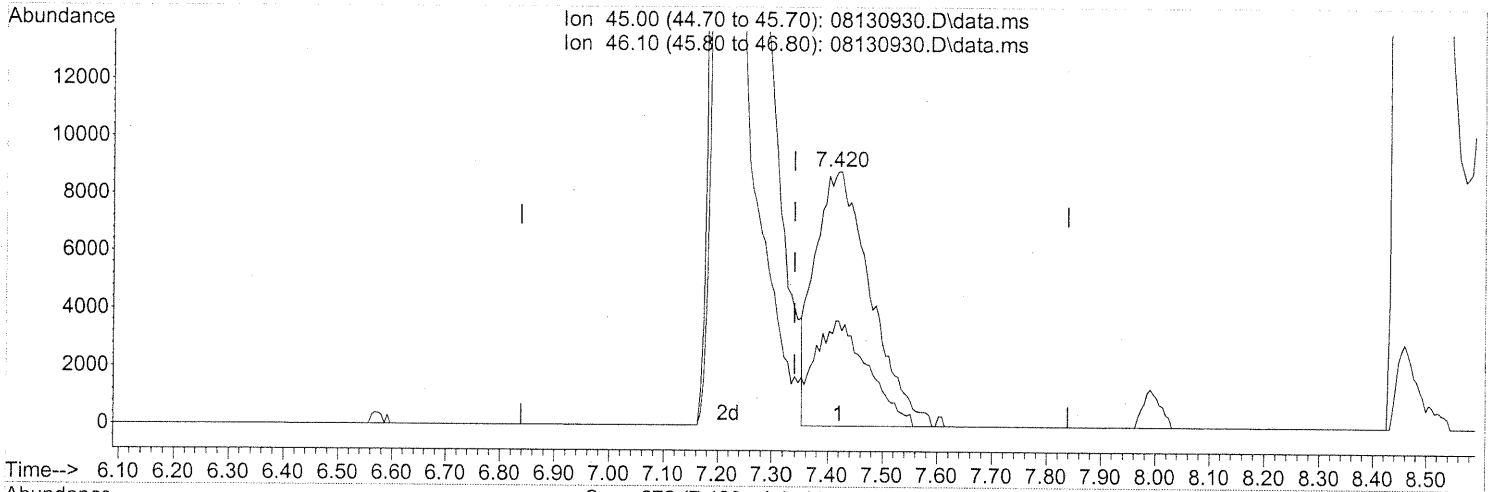
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)
 7.420min (+0.080) 4.20ng
 response 62719

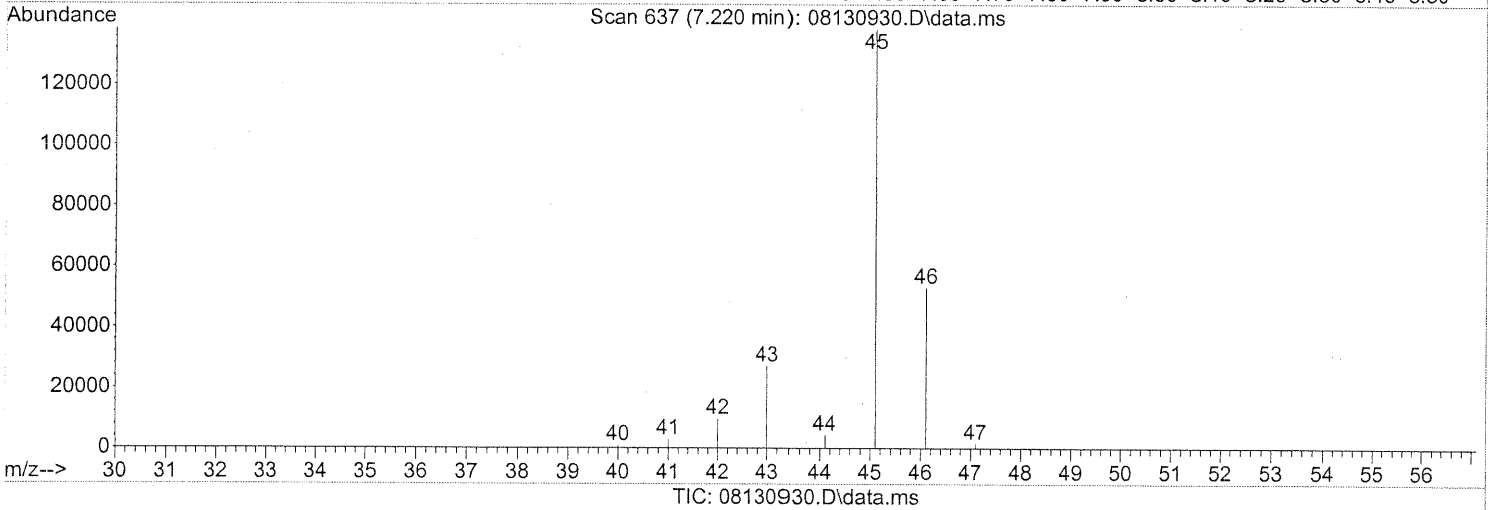
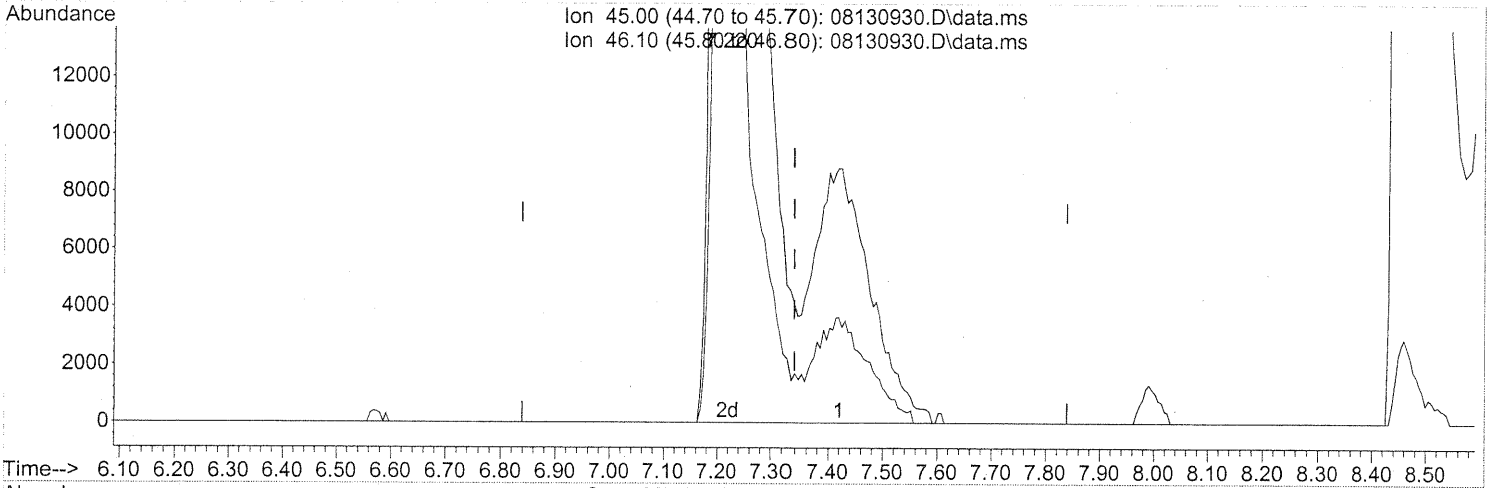
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.29
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.220min (-0.120) 33.76ng m
response 503955

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	4.77#
0.00	0.00	0.00
0.00	0.00	0.00

SP → IC
EM 8/14/09

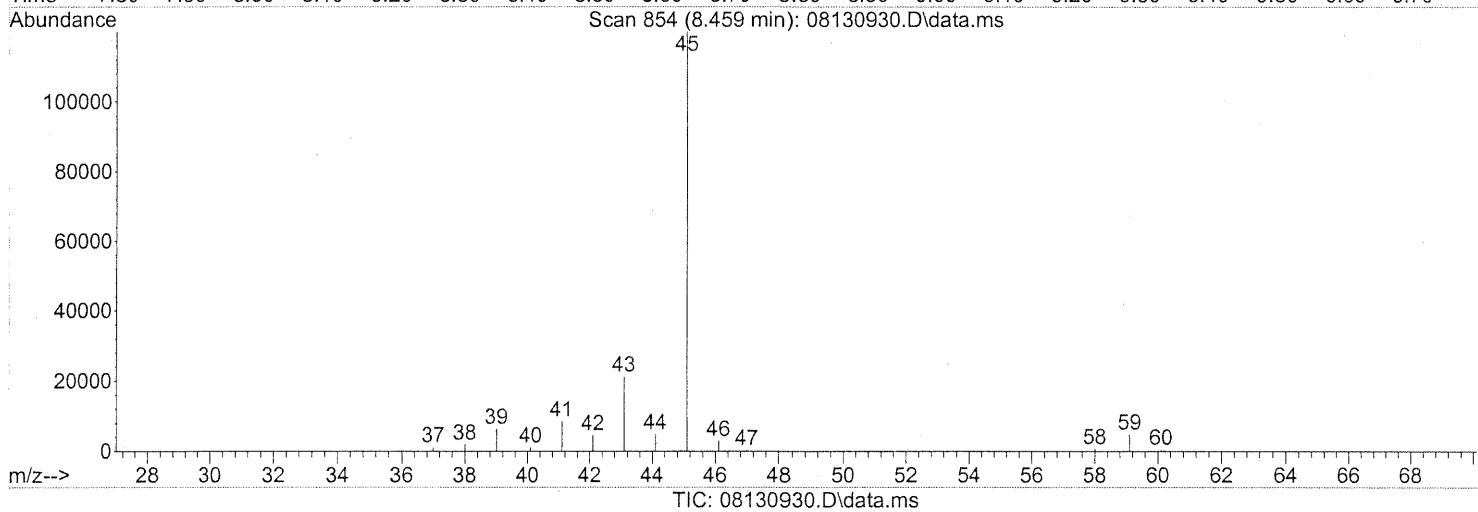
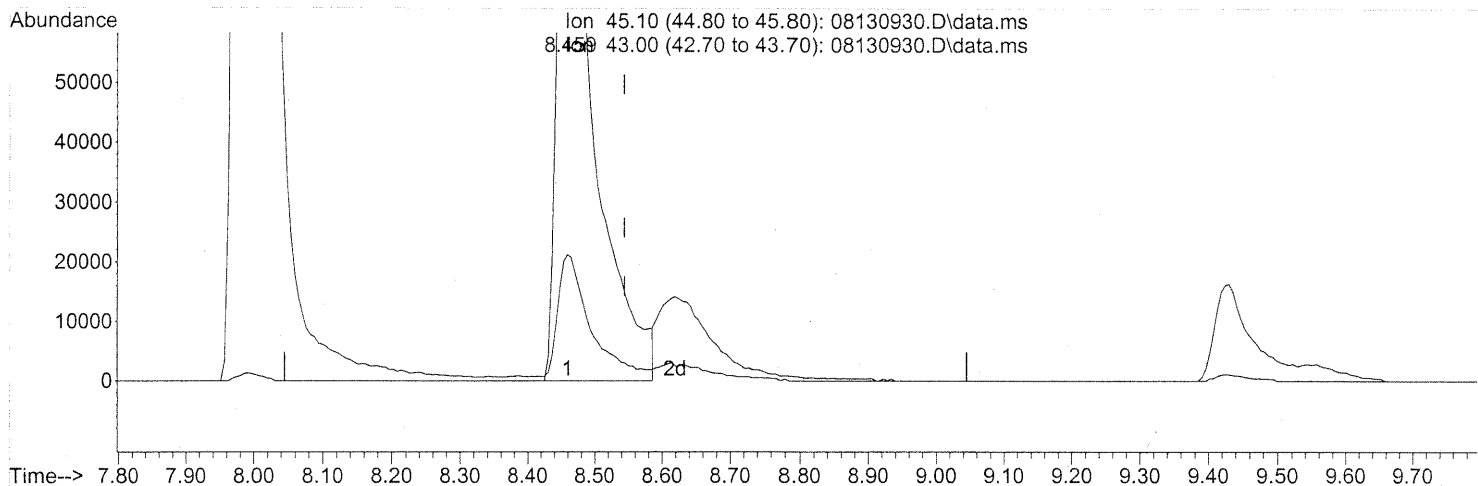
EM 8/15/09

397

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130930.D
 Acq On : 14 Aug 2009 4:43
 Operator : EM
 Sample : 5ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100904
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.459min (-0.086) 8.88ng

response 396677

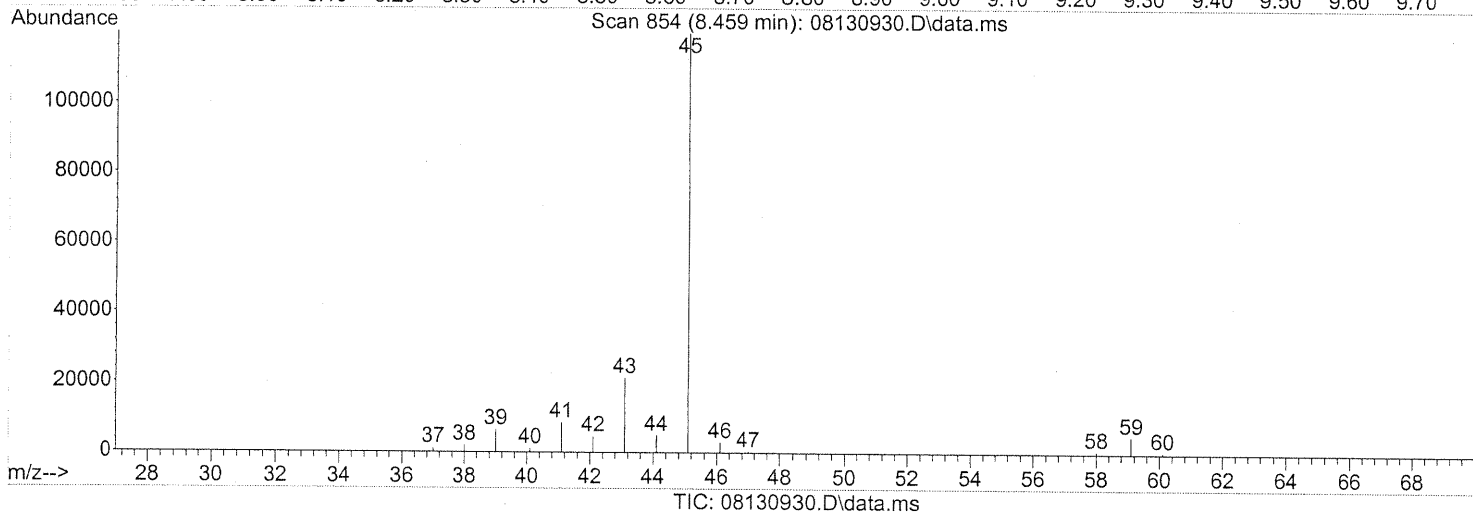
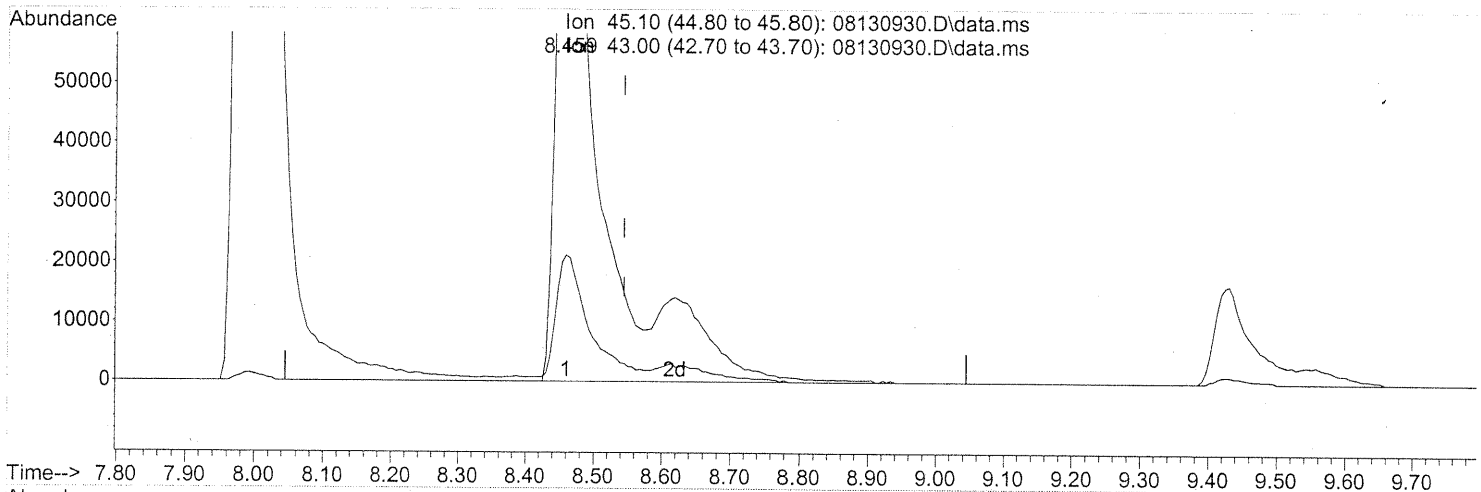
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.32
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130930.D
Acq On : 14 Aug 2009 4:43
Operator : EM
Sample : 5ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100904
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:23:02 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.459min (-0.086) 10.67ng m

response 476882

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	14.41
0.00	0.00	0.00
0.00	0.00	0.00

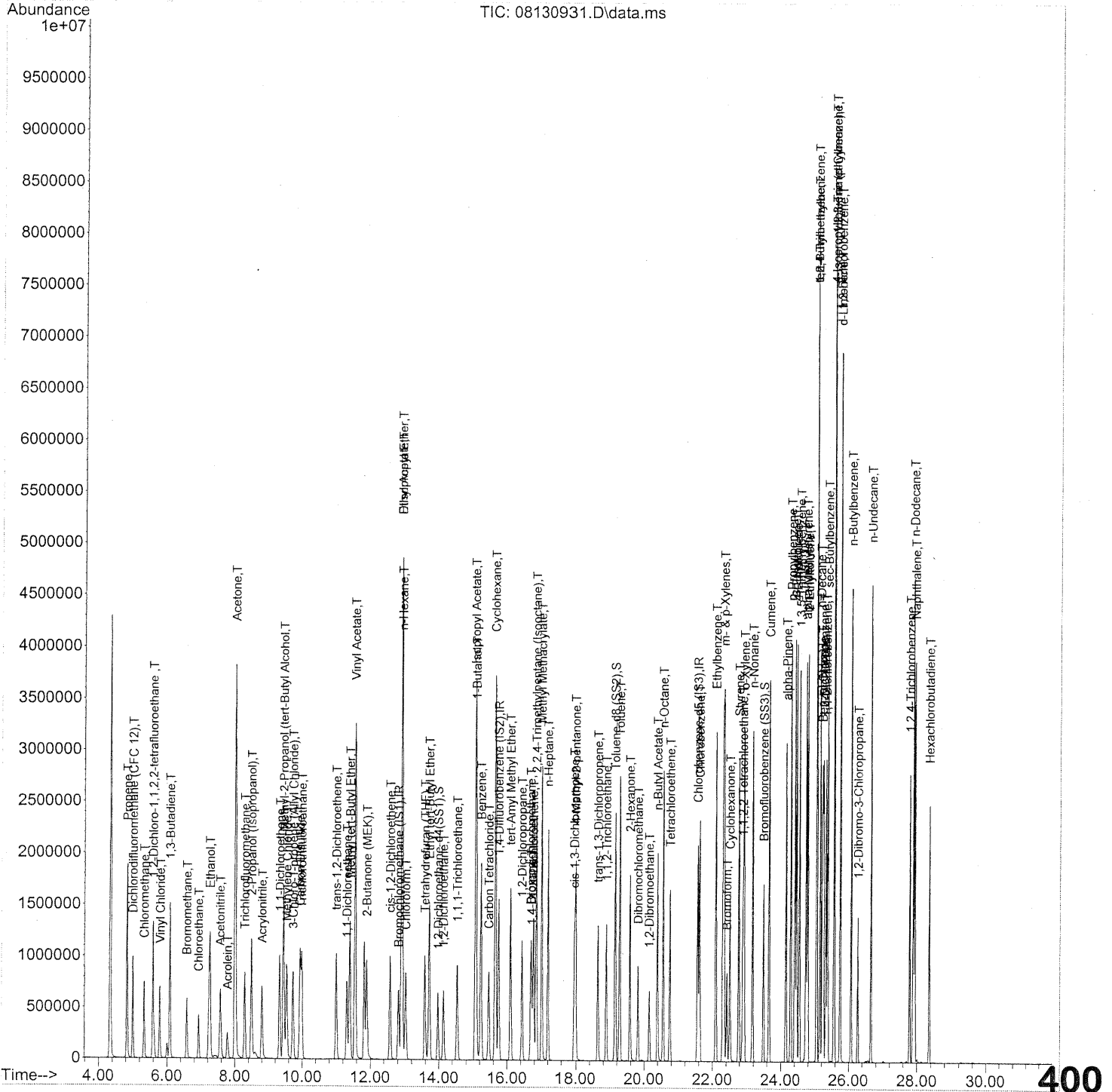
PT → LC
em 8/14/09

8/15/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	364116	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1865895	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	897905	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	639555	24.827	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.32%	
57) Toluene-d8 (SS2)	19.15	98	2134862	24.032	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.12%	
73) Bromofluorobenzene (SS3)	23.49	174	608116	22.770	ng	0.00
Spiked Amount	25.000		Recovery	=	91.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	893813	38.911	ng	96
3) Dichlorodifluoromethan...	5.00	85	1122799	24.492	ng	99
4) Chloromethane	5.33	50	1060306	30.886	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	614382	23.795	ng	100
6) Vinyl Chloride	5.80	62	1011049	27.626	ng	99
7) 1,3-Butadiene	6.08	54	905992	34.431	ng	99
8) Bromomethane	6.58	94	552570	25.596	ng	100
9) Chloroethane	6.93	64	511522	27.936	ng	100
10) Ethanol	7.26	45	2645495m	173.570	ng	
11) Acetonitrile	7.57	41	1267304	36.772	ng	98
12) Acrolein	7.79	56	380570	34.250	ng	98
13) Acetone	8.01	58	2533900	146.162	ng	88
14) Trichlorofluoromethane	8.29	101	1008004	25.243	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	2453135m	53.777	ng	
16) Acrylonitrile	8.80	53	893242	38.407	ng	98
17) 1,1-Dichloroethene	9.33	96	601910	29.600	ng	97
18) 2-Methyl-2-Propanol (t...	9.44	59	3134377	61.010	ng	97
19) Methylene Chloride	9.54	84	621124	27.058	ng	89
20) 3-Chloro-1-propene (Al...	9.73	41	978578	39.503	ng	90
21) Trichlorotrifluoroethane	9.98	151	488676	26.977	ng	97
22) Carbon Disulfide	9.93	76	2326514	29.756	ng	99
23) trans-1,2-Dichloroethene	11.00	61	944327	31.664	ng	92
24) 1,1-Dichloroethane	11.31	63	1127620	31.017	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1913053	29.838	ng	96
26) Vinyl Acetate	11.56	86	656008	158.651	ng	# 71
27) 2-Butanone (MEK)	11.89	72	449156	33.967	ng	# 85
28) cis-1,2-Dichloroethene	12.58	61	894671	31.087	ng	93
29) Diisopropyl Ether	12.91	87	549290	26.727	ng	# 69
30) Ethyl Acetate	12.91	61	522358	60.309	ng	97
31) n-Hexane	12.93	57	1172996	29.289	ng	98

401

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	998779	27.462	ng	100
34) Tetrahydrofuran (THF)	13.58	72	424555	34.073	ng #	88
35) Ethyl tert-Butyl Ether	13.71	87	757840	27.508	ng #	88
36) 1,2-Dichloroethane	14.13	62	783128	26.860	ng	99
38) 1,1,1-Trichloroethane	14.54	97	885515	25.875	ng	99
39) Isopropyl Acetate	15.07	61	888654	65.401	ng #	83
40) 1-Butanol	15.09	56	1501433	64.760	ng	88
41) Benzene	15.23	78	2534149	25.468	ng	98
42) Carbon Tetrachloride	15.46	117	761579	26.057	ng	99
43) Cyclohexane	15.66	84	2072518	55.700	ng	89
44) tert-Amyl Methyl Ether	16.10	73	1859147	28.269	ng	99
45) 1,2-Dichloropropane	16.43	63	658884	31.411	ng	99
46) Bromodichloromethane	16.70	83	830347	28.871	ng	99
47) Trichloroethene	16.77	130	648588	25.505	ng	100
48) 1,4-Dioxane	16.72	88	543245	32.435	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2947745	30.571	ng	93
50) Methyl Methacrylate	17.02	100	558743	59.877	ng	92
51) n-Heptane	17.21	71	706671	29.331	ng	94
52) cis-1,3-Dichloropropene	17.95	75	1004919	28.799	ng	100
53) 4-Methyl-2-pentanone	17.99	58	673431	35.750	ng	95
54) trans-1,3-Dichloropropene	18.64	75	1018443	33.158	ng	100
55) 1,1,2-Trichloroethane	18.89	97	592726	28.354	ng	99
58) Toluene	19.28	91	2739340	25.191	ng	100
59) 2-Hexanone	19.58	43	1588763	33.971	ng	99
60) Dibromochloromethane	19.82	129	680507	27.831	ng	99
61) 1,2-Dibromoethane	20.15	107	663705	26.350	ng	99
62) n-Butyl Acetate	20.39	43	1860228	35.779	ng	99
63) n-Octane	20.56	57	626246	29.472	ng	92
64) Tetrachloroethene	20.76	166	654987	22.781	ng	99
65) Chlorobenzene	21.62	112	1683217	24.606	ng	100
66) Ethylbenzene	22.09	91	2994707	25.325	ng	99
67) m- & p-Xylenes	22.33	91	4647270	47.659	ng	100
68) Bromoform	22.42	173	548438	25.169	ng	100
69) Styrene	22.77	104	1863220	25.911	ng	100
70) o-Xylene	22.92	91	2385962	24.562	ng	99
71) n-Nonane	23.18	43	1438625	30.334	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	1078529	26.696	ng	100
74) Cumene	23.66	105	3011318	23.343	ng	99
75) alpha-Pinene	24.15	93	1480597	24.016	ng	99
76) n-Propylbenzene	24.28	91	3744994	24.101	ng	99
77) 3-Ethyltoluene	24.41	105	3058348	25.017	ng	99
78) 4-Ethyltoluene	24.46	105	2932516	23.903	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2446240	23.977	ng	100

402

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1393210	24.411	ng	99
81) 2-Ethyltoluene	24.79	105	2942387	22.975	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2623418	22.990	ng	99
83) n-Decane	25.16	57	1509811	27.388	ng	95
84) Benzyl Chloride	25.22	91	2320976	28.376	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1356990	22.655	ng	99
86) 1,4-Dichlorobenzene	25.33	146	1381988	22.145	ng	100
87) sec-Butylbenzene	25.38	105	3356026	23.524	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3219478	22.384	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2662217	22.911	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1327033	21.315	ng	100
91) d-Limonene	25.74	68	1139413	25.133	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	460372	26.331	ng	95
93) n-Undecane	26.65	57	1601142	28.367	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	978833	24.366	ng	99
95) Naphthalene	27.94	128	3428876	24.487	ng	100
96) n-Dodecane	27.89	57	1635236	27.111	ng	96
97) Hexachlorobutadiene	28.36	225	549265	23.899	ng	99
98) Cyclohexanone	22.51	55	919787	28.042	ng	94
99) tert-Butylbenzene	25.05	119	2572033	22.302	ng	100
100) n-Butylbenzene	26.07	91	2798242	24.631	ng	100

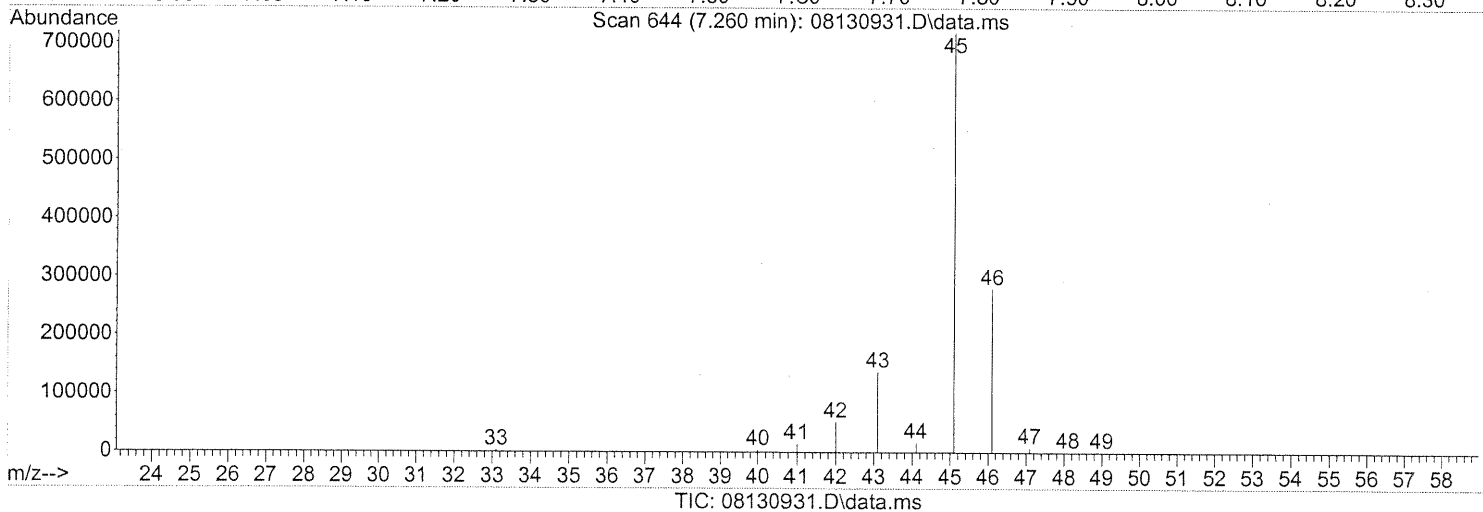
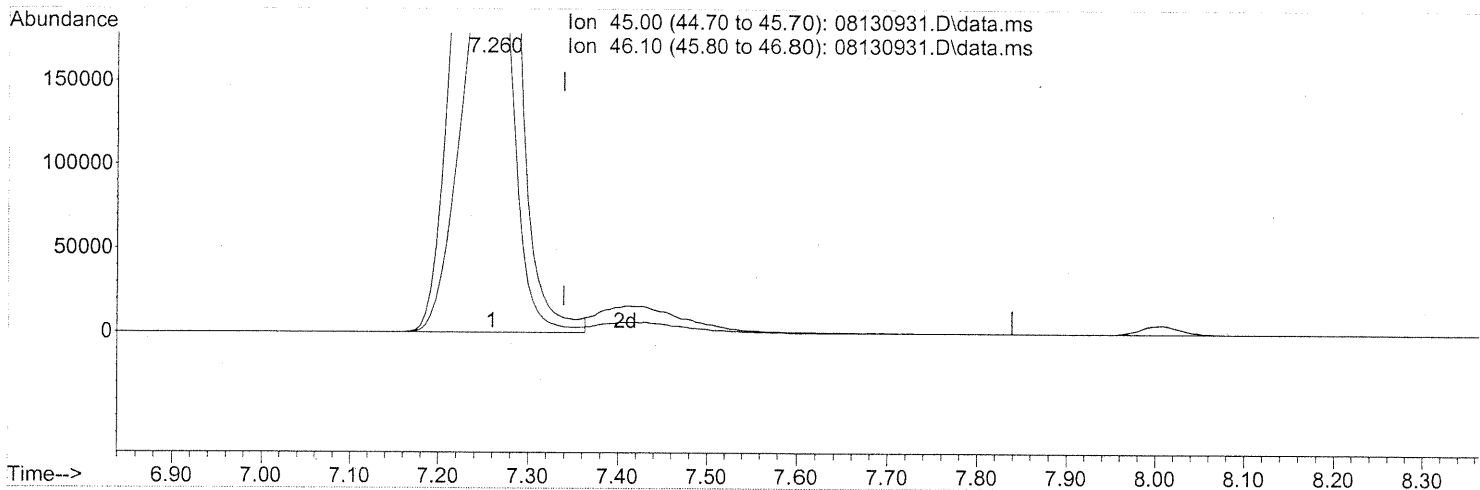
(#) = qualifier out of range (m) = manual integration (+) = signals summed

em 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 166.43ng

response 2536739

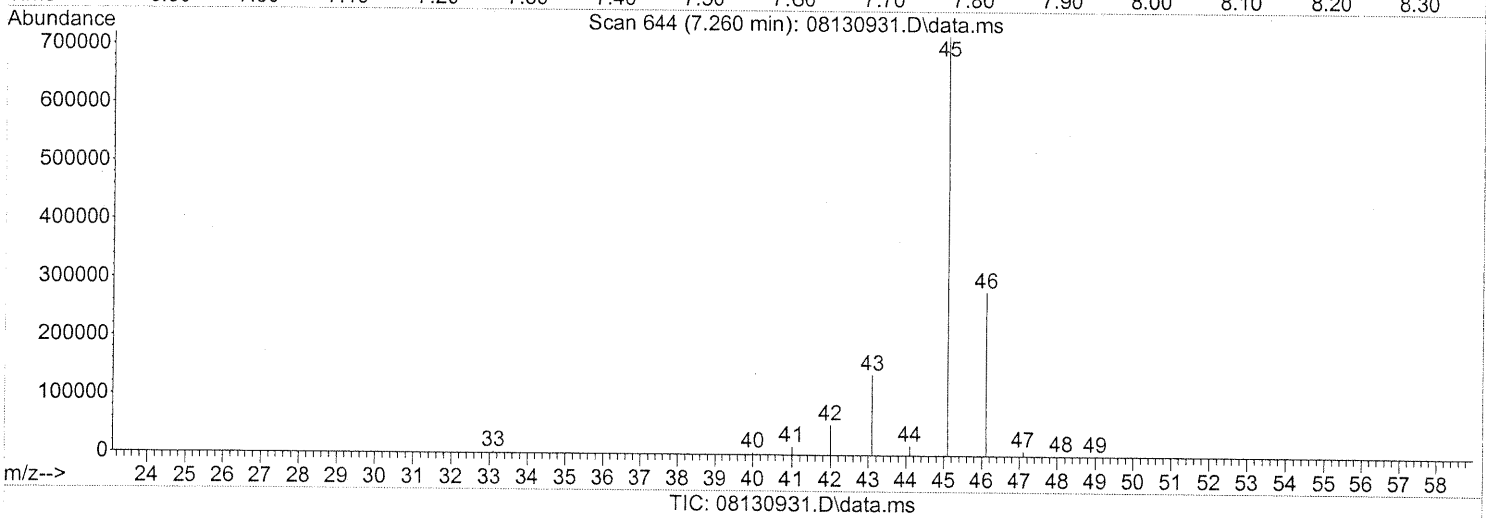
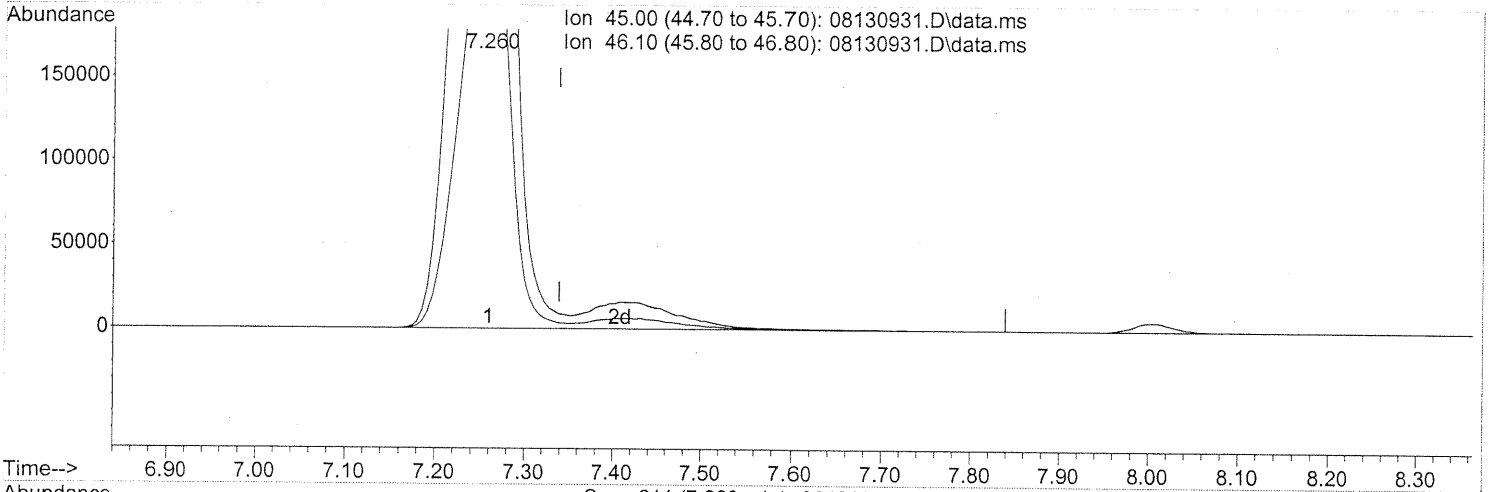
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.10
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 173.57ng m

response 2645495

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 8/14/09

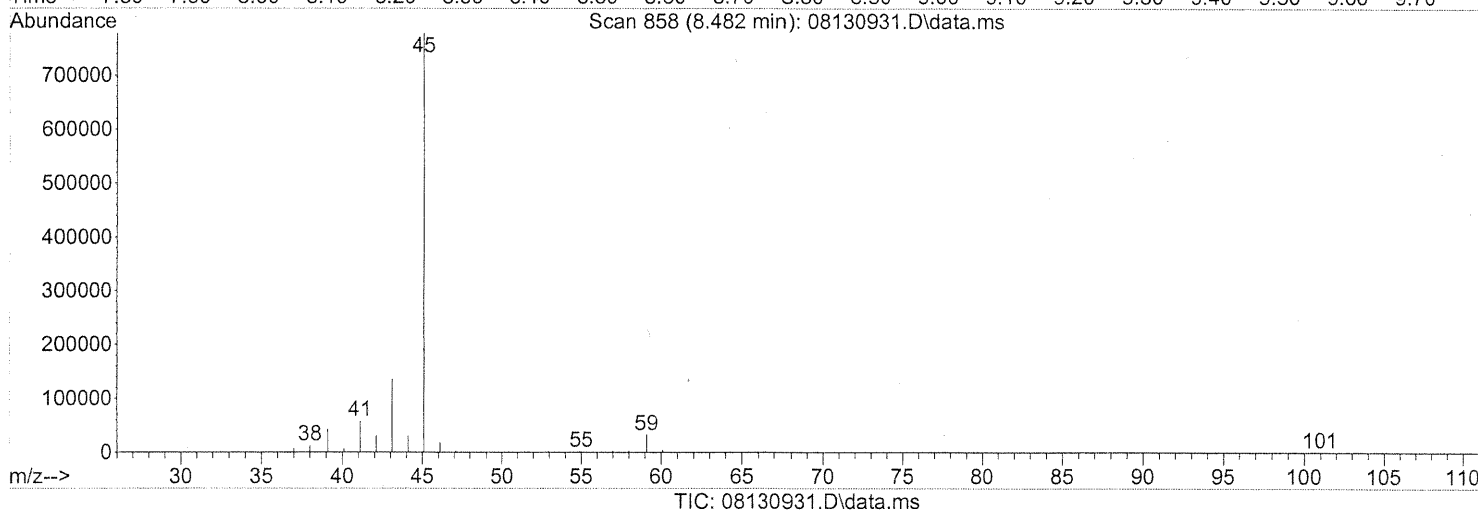
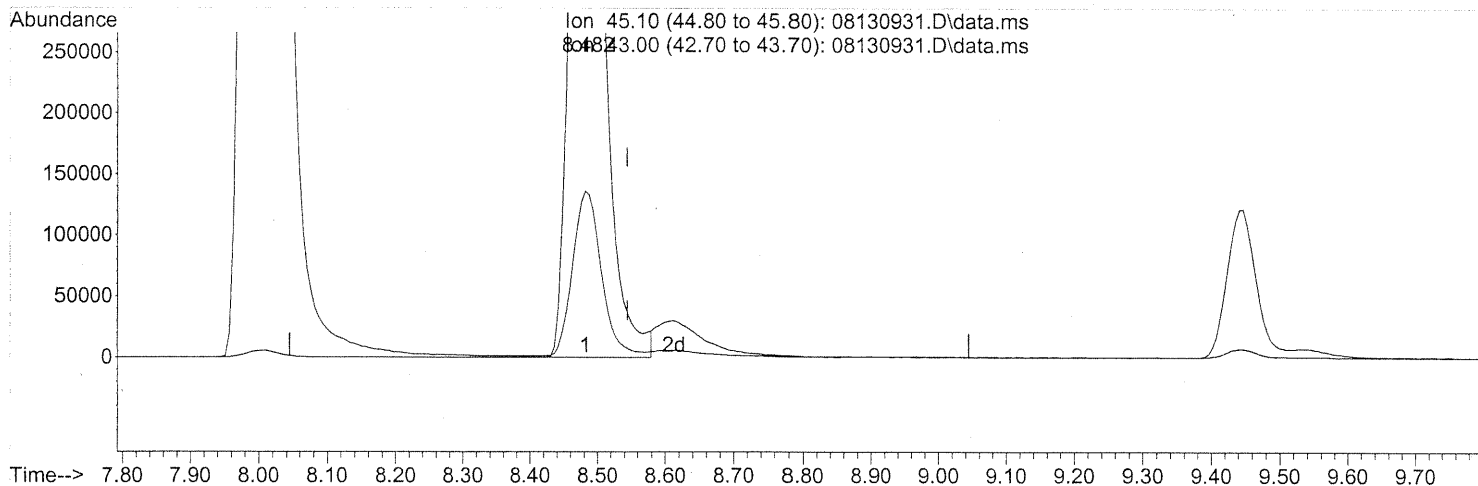
BA 8/15/09

405

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 50.45ng

response 2301319

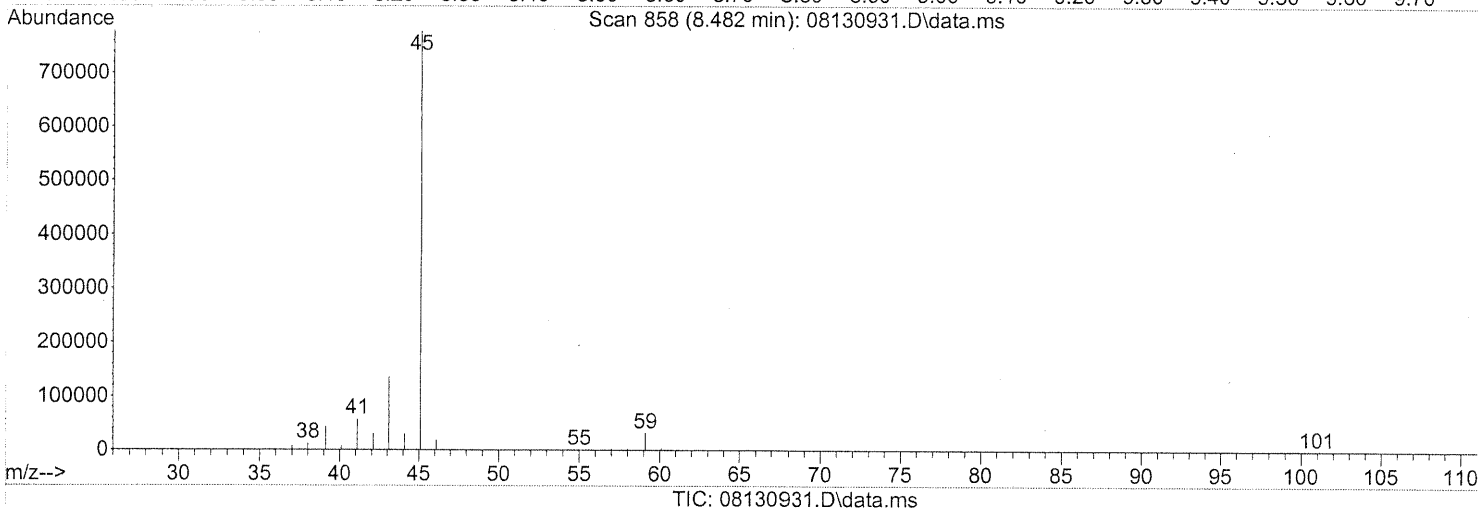
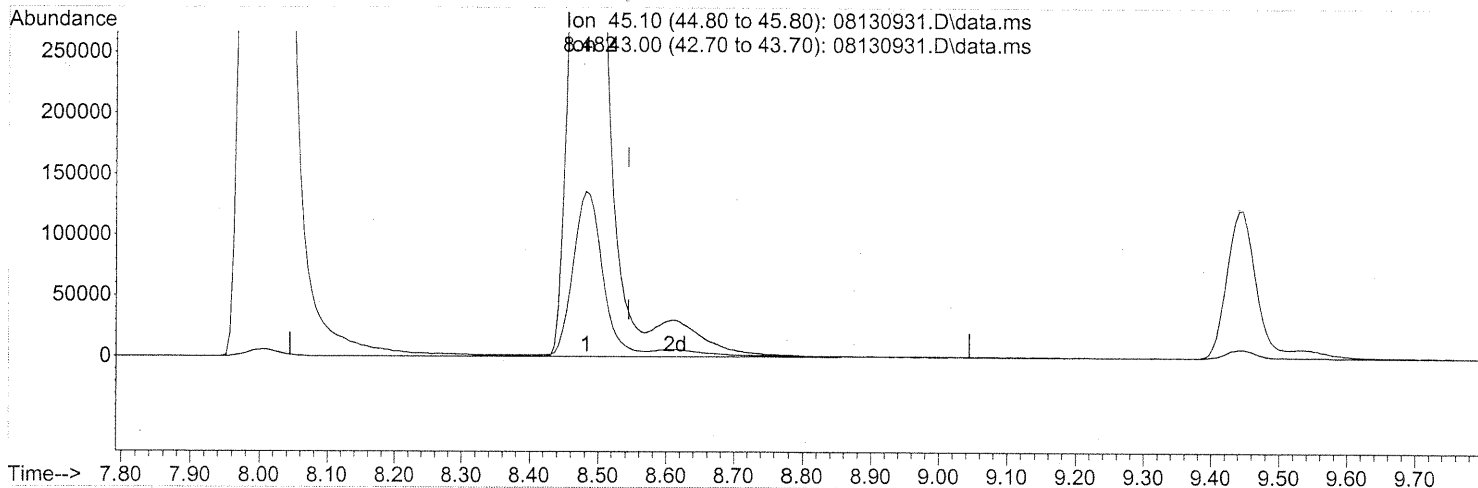
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.19
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 53.78ng m

response 2453135

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.00
0.00	0.00	0.00
0.00	0.00	0.00

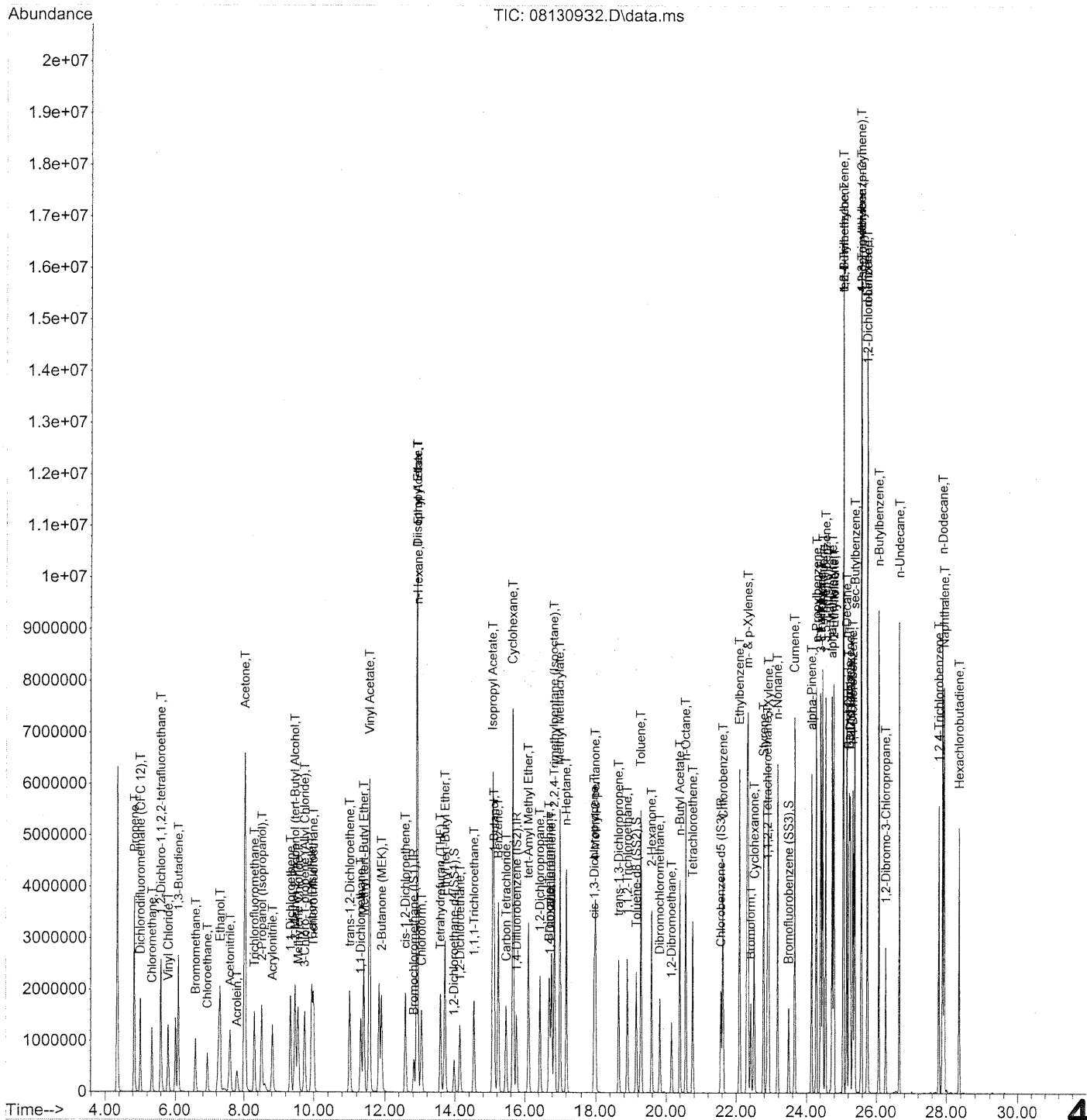
PT → IC
em 8/14/09

BA 8/15/09

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	350547	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.77	114	1802547	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.56	82	865291	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.98	65	612890	24.713	ng	-0.01
Spiked Amount	25.000		Recovery	=	98.84%	
57) Toluene-d8 (SS2)	19.15	98	2053608	23.989	ng	0.00
Spiked Amount	25.000		Recovery	=	95.96%	
73) Bromofluorobenzene (SS3)	23.49	174	585162	22.737	ng	0.00
Spiked Amount	25.000		Recovery	=	90.96%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	1835063	82.979	ng	96
3) Dichlorodifluoromethan...	5.01	85	2152098	48.762	ng	99
4) Chloromethane	5.34	50	1909302	57.769	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	1202790	48.388	ng	100
6) Vinyl Chloride	5.80	62	1933734	54.883	ng	99
7) 1,3-Butadiene	6.09	54	1726352	68.147	ng	99
8) Bromomethane	6.59	94	1036817	49.887	ng	100
9) Chloroethane	6.93	64	971424	55.107	ng	100
10) Ethanol	7.30	45	5039053	343.407	ng	100
11) Acetonitrile	7.59	41	2412776	72.719	ng	99
12) Acrolein	7.79	56	727129	67.972	ng	98
13) Acetone	8.03	58	4904508	293.855	ng	87
14) Trichlorofluoromethane	8.29	101	1926285	50.107	ng	98
15) 2-Propanol (Isopropanol)	8.51	45	3892928	88.644	ng	94
16) Acrylonitrile	8.82	53	1701577	75.996	ng	99
17) 1,1-Dichloroethene	9.33	96	1160521	59.280	ng	98
18) 2-Methyl-2-Propanol (t...	9.46	59	4054207	81.969	ng	97
19) Methylene Chloride	9.56	84	1192968	53.981	ng	89
20) 3-Chloro-1-propene (Al...	9.74	41	1889044	79.209	ng	90
21) Trichlorotrifluoroethane	9.99	151	945670	54.226	ng	97
22) Carbon Disulfide	9.94	76	4497151	59.746	ng	98
23) trans-1,2-Dichloroethene	11.01	61	1818529	63.338	ng	93
24) 1,1-Dichloroethane	11.32	63	2174072	62.117	ng	100
25) Methyl tert-Butyl Ether	11.40	73	3746603	60.699	ng	96
26) Vinyl Acetate	11.57	86	1327059	333.362	ng	# 78
27) 2-Butanone (MEK)	11.90	72	865059	67.951	ng	# 86
28) cis-1,2-Dichloroethene	12.58	61	1721120	62.119	ng	94
29) Diisopropyl Ether	12.92	87	1111656	56.184	ng	# 74
30) Ethyl Acetate	12.92	61	1067973	128.075	ng	97
31) n-Hexane	12.93	57	2406714	62.420	ng	94

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EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.04	83	1924717	54.970	ng	100
34) Tetrahydrofuran (THF)	13.59	72	790606	65.907	ng #	87
35) Ethyl tert-Butyl Ether	13.72	87	1490436	56.193	ng #	88
36) 1,2-Dichloroethane	14.14	62	1501599	53.495	ng	99
38) 1,1,1-Trichloroethane	14.54	97	1725003	52.176	ng	100
39) Isopropyl Acetate	15.08	61	1746401	133.045	ng #	85
40) 1-Butanol	15.11	56	2940898	131.304	ng	88
41) Benzene	15.24	78	4920242	51.185	ng	99
42) Carbon Tetrachloride	15.47	117	1493939	52.911	ng	99
43) Cyclohexane	15.66	84	4129214	114.874	ng	88
44) tert-Amyl Methyl Ether	16.11	73	3664090	57.672	ng	99
45) 1,2-Dichloropropane	16.44	63	1271414	62.743	ng	98
46) Bromodichloromethane	16.70	83	1623042	58.416	ng	99
47) Trichloroethene	16.78	130	1266559	51.557	ng	100
48) 1,4-Dioxane	16.73	88	1067524	65.978	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	5774283	61.989	ng	93
50) Methyl Methacrylate	17.03	100	1111183	123.264	ng	93
51) n-Heptane	17.22	71	1384269	59.475	ng	95
52) cis-1,3-Dichloropropene	17.95	75	1961714	58.194	ng	100
53) 4-Methyl-2-pentanone	17.99	58	1317291	72.388	ng	95
54) trans-1,3-Dichloropropene	18.65	75	1988137	67.004	ng	100
55) 1,1,2-Trichloroethane	18.90	97	1148732	56.882	ng	98
58) Toluene	19.28	91	5320486	50.772	ng	100
59) 2-Hexanone	19.59	43	3087649	68.509	ng	100
60) Dibromochloromethane	19.82	129	1325208	56.240	ng	100
61) 1,2-Dibromoethane	20.15	107	1295084	53.355	ng	100
62) n-Butyl Acetate	20.39	43	3708971	74.026	ng	99
63) n-Octane	20.56	57	1231350	60.134	ng	92
64) Tetrachloroethene	20.76	166	1285349	46.390	ng	99
65) Chlorobenzene	21.63	112	3279777	49.753	ng	100
66) Ethylbenzene	22.09	91	5886739	51.658	ng	99
67) m- & p-Xylenes	22.33	91	9252004	98.458	ng	100
68) Bromoform	22.42	173	1097931	52.286	ng	100
69) Styrene	22.78	104	3668340	52.938	ng	100
70) o-Xylene	22.92	91	4731058	50.539	ng	99
71) n-Nonane	23.18	43	2791725	61.083	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	2141569	55.006	ng	100
74) Cumene	23.66	105	5934180	47.735	ng	99
75) alpha-Pinene	24.15	93	2936785	49.431	ng	100
76) n-Propylbenzene	24.29	91	7354011	49.110	ng	100
77) 3-Ethyltoluene	24.41	105	5944493	50.459	ng	99
78) 4-Ethyltoluene	24.47	105	5986526	50.636	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	4865603	49.487	ng	94

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130932.D
 Acq On : 14 Aug 2009 6:06
 Operator : EM
 Sample : 50ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:27:14 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

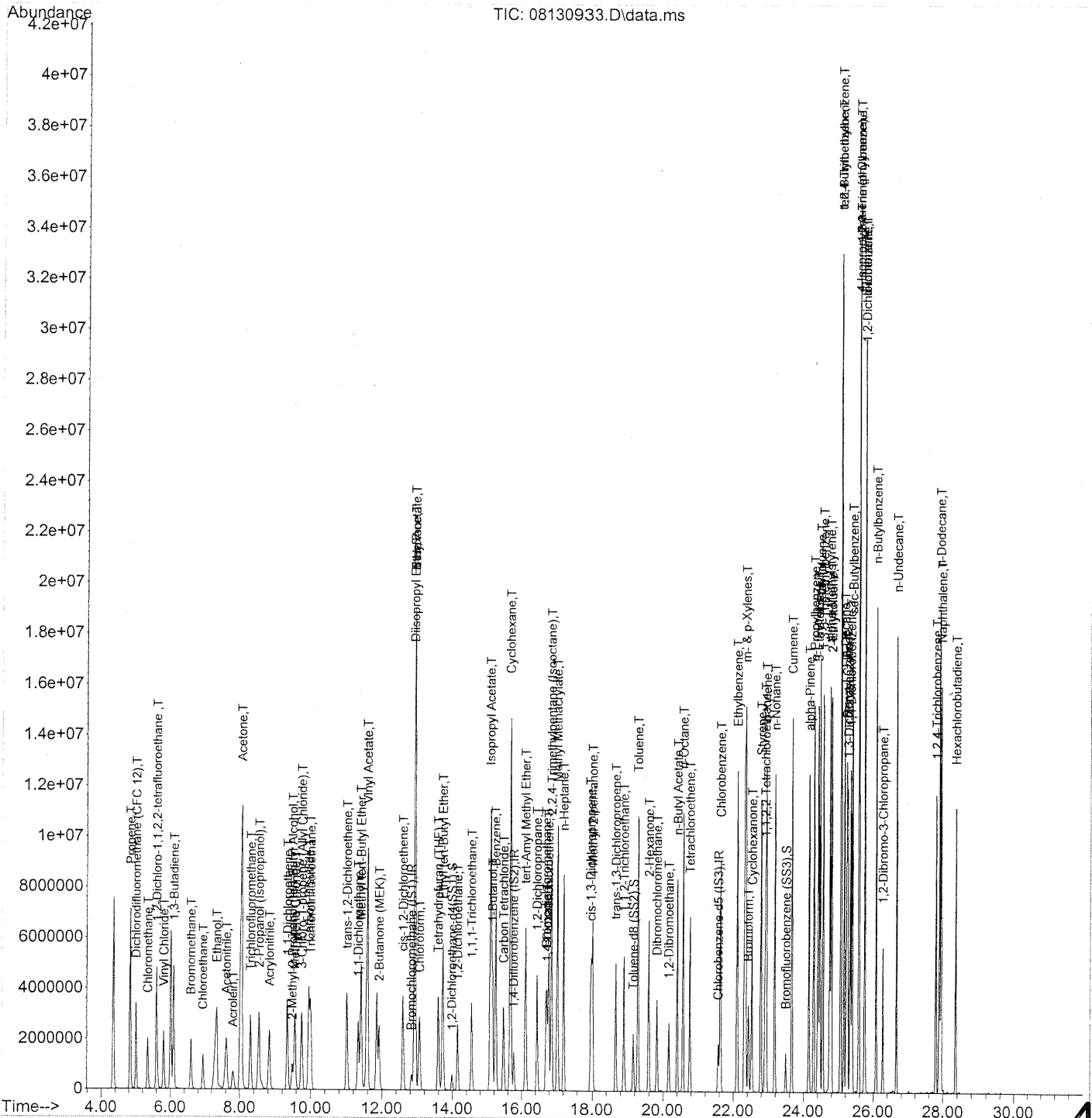
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	2788713	50.704	ng	98
81) 2-Ethyltoluene	24.79	105	5835415	47.282	ng	100
82) 1,2,4-Trimethylbenzene	25.06	105	5419555	49.283	ng	98
83) n-Decane	25.16	57	2958484	55.690	ng	96
84) Benzyl Chloride	25.23	91	4657935	59.094	ng	100
85) 1,3-Dichlorobenzene	25.25	146	2725906	47.225	ng	100
86) 1,4-Dichlorobenzene	25.33	146	2761502	45.918	ng	100
87) sec-Butylbenzene	25.39	105	6623319	48.176	ng	100
88) 4-Isopropyltoluene (p-...	25.57	119	6624766	47.796	ng	100
89) 1,2,3-Trimethylbenzene	25.57	105	5491766	49.043	ng	97
90) 1,2-Dichlorobenzene	25.75	146	2744516	45.744	ng	100
91) d-Limonene	25.75	68	2289426	52.402	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.27	157	922457	54.748	ng	95
93) n-Undecane	26.66	57	3160860	58.111	ng	98
94) 1,2,4-Trichlorobenzene	27.80	180	2014621	52.040	ng	99
95) Naphthalene	27.94	128	7027186	52.076	ng	100
96) n-Dodecane	27.89	57	3283767	56.494	ng	97
97) Hexachlorobutadiene	28.36	225	1130021	51.021	ng	99
98) Cyclohexanone	22.52	55	1802415	57.022	ng	95
99) tert-Butylbenzene	25.06	119	5291689	47.613	ng	100
100) n-Butylbenzene	26.07	91	5516279	50.386	ng	99

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

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.84	130	348166	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.77	114	1791529	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.57	82	827819	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.99	65	607715	24.672	ng	0.00
Spiked Amount	25.000		Recovery	=	98.68%	
57) Toluene-d8 (SS2)	19.16	98	2003126	24.459	ng	0.00
Spiked Amount	25.000		Recovery	=	97.84%	
73) Bromofluorobenzene (SS3)	23.49	174	555754	22.571	ng	0.00
Spiked Amount	25.000		Recovery	=	90.28%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	3637379	165.601	ng	96
3) Dichlorodifluoromethan...	5.01	85	4285891	97.773	ng	99
4) Chloromethane	5.35	50	3395552	103.441	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.60	135	2374269	96.170	ng	100
6) Vinyl Chloride	5.81	62	3733511	106.688	ng	99
7) 1,3-Butadiene	6.09	54	3376996	134.217	ng	100
8) Bromomethane	6.60	94	2088575	101.180	ng	99
9) Chloroethane	6.94	64	1938501	110.719	ng	100
10) Ethanol	7.35	45	9723278	667.164	ng	100
11) Acetonitrile	7.62	41	4607769	139.823	ng	99
12) Acrolein	7.81	56	1410648	132.769	ng	98
13) Acetone	8.05	58	9758235	588.667	ng	# 81
14) Trichlorofluoromethane	8.31	101	3855506	100.976	ng	98
15) 2-Propanol (Isopropanol)	8.54	45	7411494	169.917	ng	94
16) Acrylonitrile	8.84	53	3337367	150.073	ng	98
17) 1,1-Dichloroethene	9.34	96	2361373	121.445	ng	99
18) 2-Methyl-2-Propanol (t...	9.49	59	1930576	39.300	ng	94
19) Methylene Chloride	9.56	84	2367946	107.882	ng	91
20) 3-Chloro-1-propene (Al...	9.75	41	3751505	158.379	ng	90
21) Trichlorotrifluoroethane	10.00	151	1857232	107.225	ng	98
22) Carbon Disulfide	9.95	76	9003969	120.438	ng	98
23) trans-1,2-Dichloroethene	11.02	61	3600834	126.271	ng	94
24) 1,1-Dichloroethane	11.33	63	4282531	123.196	ng	100
25) Methyl tert-Butyl Ether	11.41	73	7429243	121.184	ng	96
26) Vinyl Acetate	11.59	86	2488460	629.386	ng	# 93
27) 2-Butanone (MEK)	11.92	72	1131449	89.484	ng	# 88
28) cis-1,2-Dichloroethene	12.60	61	3373649	122.596	ng	95
29) Diisopropyl Ether	12.92	87	2306270	117.357	ng	# 89
30) Ethyl Acetate	12.94	61	2196811	265.252	ng	98
31) n-Hexane	12.94	57	5006652	130.739	ng	94

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.06	83	3845350	110.575	ng	100
34) Tetrahydrofuran (THF)	13.59	72	1563630	131.239	ng #	88
35) Ethyl tert-Butyl Ether	13.73	87	2996398	113.745	ng	90
36) 1,2-Dichloroethane	14.15	62	2964635	106.339	ng	100
38) 1,1,1-Trichloroethane	14.55	97	3345979	101.827	ng	99
39) Isopropyl Acetate	15.10	61	3529470	270.537	ng #	92
40) 1-Butanol	15.15	56	5716126	256.782	ng #	5
41) Benzene	15.25	78	9743540	101.985	ng	99
42) Carbon Tetrachloride	15.47	117	2984668	106.359	ng	99
43) Cyclohexane	15.67	84	8447133	236.444	ng	90
44) tert-Amyl Methyl Ether	16.11	73	7344919	116.318	ng	99
45) 1,2-Dichloropropane	16.45	63	2518901	125.070	ng	98
46) Bromodichloromethane	16.71	83	3199002	115.846	ng	99
47) Trichloroethene	16.79	130	2587187	105.962	ng	100
48) 1,4-Dioxane	16.74	88	2105550	130.933	ng	89
49) 2,2,4-Trimethylpentane...	16.87	57	11343752	122.528	ng	93
50) Methyl Methacrylate	17.05	100	2277585	254.207	ng	95
51) n-Heptane	17.22	71	2756301	119.152	ng	95
52) cis-1,3-Dichloropropene	17.96	75	3903750	116.517	ng	99
53) 4-Methyl-2-pentanone	18.00	58	2601880	143.858	ng	96
54) trans-1,3-Dichloropropene	18.66	75	3928268	133.204	ng	100
55) 1,1,2-Trichloroethane	18.90	97	2295248	114.353	ng	99
58) Toluene	19.29	91	10619232	105.924	ng	98
59) 2-Hexanone	19.60	43	5972025	138.505	ng	99
60) Dibromochloromethane	19.83	129	2671138	118.490	ng	99
61) 1,2-Dibromoethane	20.16	107	2581710	111.177	ng	100
62) n-Butyl Acetate	20.40	43	7613756	158.839	ng	98
63) n-Octane	20.57	57	2463694	125.762	ng	94
64) Tetrachloroethene	20.76	166	2651443	100.026	ng	98
65) Chlorobenzene	21.63	112	6606674	104.758	ng	99
66) Ethylbenzene	22.10	91	11775803	108.015	ng	99
67) m- & p-Xylenes	22.35	91	18896858	210.199	ng	98
68) Bromoform	22.43	173	2253843	112.193	ng	100
69) Styrene	22.79	104	7494579	113.049	ng	100
70) o-Xylene	22.93	91	9698083	108.288	ng	100
71) n-Nonane	23.19	43	5386497	123.192	ng	98
72) 1,1,2,2-Tetrachloroethane	22.91	83	4392172	117.919	ng	99
74) Cumene	23.67	105	11982041	100.747	ng	99
75) alpha-Pinene	24.16	93	6016933	105.858	ng	99
76) n-Propylbenzene	24.29	91	14406754	100.564	ng	98
77) 3-Ethyltoluene	24.41	105	12117897	107.517	ng	99
78) 4-Ethyltoluene	24.47	105	12131828	107.260	ng	97
79) 1,3,5-Trimethylbenzene	24.56	105	10058671	106.936	ng	99

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Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130933.D
 Acq On : 14 Aug 2009 6:47
 Operator : EM
 Sample : 100ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:28:24 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

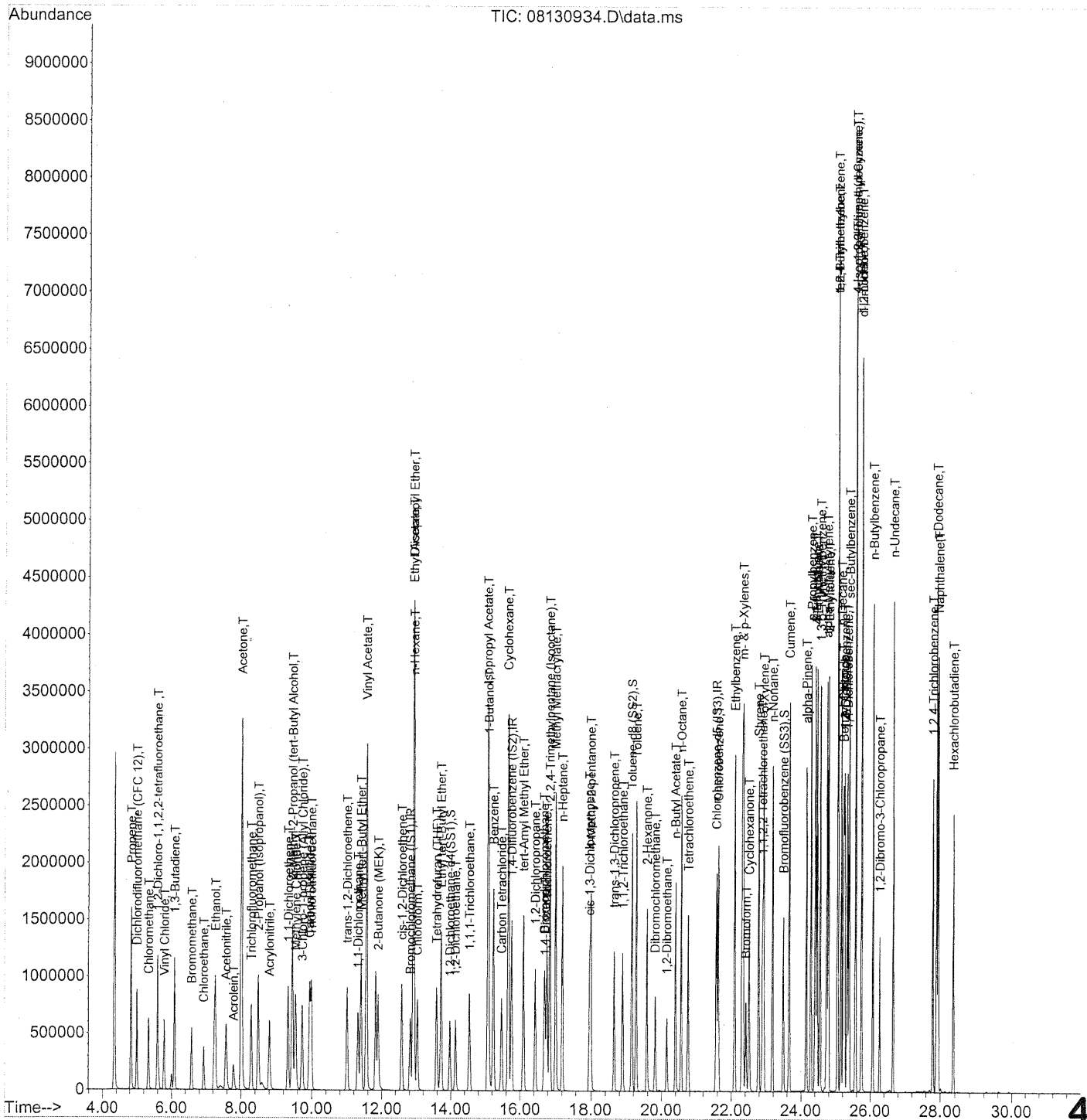
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.75	118	5862974	111.426	ng	98
81) 2-Ethyltoluene	24.80	105	11978631	101.452	ng	98
82) 1,2,4-Trimethylbenzene	25.07	105	11417406	108.524	ng	95
83) n-Decane	25.17	57	5959851	117.266	ng	97
84) Benzyl Chloride	25.24	91	9728914	129.016	ng	99
85) 1,3-Dichlorobenzene	25.27	146	5822861	105.443	ng	100
86) 1,4-Dichlorobenzene	25.34	146	5826479	101.267	ng	100
87) sec-Butylbenzene	25.39	105	13318015	101.255	ng	98
88) 4-Isopropyltoluene (p-...	25.58	119	13504368	101.840	ng	96
89) 1,2,3-Trimethylbenzene	25.59	105	11559732	107.903	ng	95
90) 1,2-Dichlorobenzene	25.76	146	6086420	106.037	ng	99
91) d-Limonene	25.75	68	4660560	111.503	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.28	157	1916720	118.907	ng	94
93) n-Undecane	26.66	57	6305897	121.179	ng	100
94) 1,2,4-Trichlorobenzene	27.80	180	4306788	116.286	ng	100
95) Naphthalene	27.94	128	14097900	109.204	ng	98
96) n-Dodecane	27.90	57	6564038	118.039	ng	100
97) Hexachlorobutadiene	28.36	225	2440971	115.199	ng	99
98) Cyclohexanone	22.53	55	3544648	117.216	ng	95
99) tert-Butylbenzene	25.07	119	11254211	105.845	ng	98
100) n-Butylbenzene	26.08	91	11144477	106.402	ng	96

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

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130934.D
Acq On : 14 Aug 2009 7:29
Operator : EM
Sample : 25ng TO-15 ICV STD
Misc : S20-08130905/S20-08070903
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 14 07:39:36 2009
Response via : Initial Calibration



416

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.82	130	347390	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1780684	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	815195	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.97	65	604640	24.616	ng	-0.02	
Spiked Amount				25.000			
				Recovery	=	98.48%	✓
57) Toluene-d8 (SS2)	19.15	98	2007417	25.903	ng	-0.01	
Spiked Amount				25.000			
				Recovery	=	103.60%	✓
73) Bromofluorobenzene (SS3)	23.49	174	549810	25.051	ng	0.00	
Spiked Amount				25.000			
				Recovery	=	100.20%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	755258	24.784	ng	97
3) Dichlorodifluoromethan...	5.00	85	1005106	23.107	ng	99
4) Chloromethane	5.33	50	889752	21.947	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	564338	24.551	ng	100
6) Vinyl Chloride	5.79	62	876778	21.924	ng	99
7) 1,3-Butadiene	6.08	54	701163	24.684	ng	99
8) Bromomethane	6.58	94	517466	24.745	ng	100
9) Chloroethane	6.93	64	453736	22.870	ng	100
10) Ethanol	7.27	45	2232593m	116.796	ng	
11) Acetonitrile	7.57	41	1091608	23.400	ng	98
12) Acrolein	7.79	56	337125	27.044	ng	99
13) Acetone	8.01	58	2192988	112.739	ng	90
14) Trichlorofluoromethane	8.29	101	901533	24.237	ng	98
15) 2-Propanol (Isopropanol)	8.49	45	2159425m	40.537	ng	
16) Acrylonitrile	8.81	53	785326	27.795	ng	99
17) 1,1-Dichloroethene	9.33	96	557081	25.520	ng	100
18) 2-Methyl-2-Propanol (t...	9.45	59	2821970	52.180	ng	97
19) Methylene Chloride	9.54	84	567231	23.372	ng	92
20) 3-Chloro-1-propene (Al...	9.73	41	863616	26.536	ng	90
21) Trichlorotrifluoroethane	9.98	151	460905	27.684	ng	100
22) Carbon Disulfide	9.93	76	2066628	24.130	ng	98
23) trans-1,2-Dichloroethene	11.00	61	828040	24.719	ng	94
24) 1,1-Dichloroethane	11.31	63	1028210	25.062	ng	99
25) Methyl tert-Butyl Ether	11.40	73	1722756	25.914	ng	97
26) Vinyl Acetate	11.56	86	625023	148.358	ng	# 78
27) 2-Butanone (MEK)	11.89	72	401170	29.583	ng	# 87
28) cis-1,2-Dichloroethene	12.58	61	818774	26.193	ng	94
29) Diisopropyl Ether	12.91	87	504111	26.184	ng	# 78
30) Ethyl Acetate	12.90	61	457829	52.062	ng	99
31) n-Hexane	12.93	57	1031014	24.051	ng	94

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	925757	25.803	ng	100
34) Tetrahydrofuran (THF)	13.58	72	383882	27.228	ng #	90
35) Ethyl tert-Butyl Ether	13.71	87	697007	25.375	ng	90
36) 1,2-Dichloroethane	14.13	62	726093	26.447	ng	100
38) 1,1,1-Trichloroethane	14.54	97	832543	25.706	ng	100
39) Isopropyl Acetate	15.07	61	799888	55.041	ng #	83
40) 1-Butanol	15.09	56	1373581	59.526	ng	88
41) Benzene	15.23	78	2340548	24.441	ng	98
42) Carbon Tetrachloride	15.46	117	716257	26.758	ng	99
43) Cyclohexane	15.66	84	1852146	49.942	ng	90
44) tert-Amyl Methyl Ether	16.10	73	1708871	25.389	ng	99
45) 1,2-Dichloropropane	16.43	63	596499	25.392	ng	98
46) Bromodichloromethane	16.70	83	745141	26.598	ng	99
47) Trichloroethene	16.77	130	608704	25.035	ng	100
48) 1,4-Dioxane	16.72	88	489317	28.729	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2653373	24.075	ng	94
50) Methyl Methacrylate	17.02	100	520131	54.356	ng	94
51) n-Heptane	17.21	71	631643	24.777	ng	96
52) cis-1,3-Dichloropropene	17.95	75	924165	26.108	ng	100
53) 4-Methyl-2-pentanone	17.98	58	595650	28.784	ng	96
54) trans-1,3-Dichloropropene	18.64	75	942904	30.449	ng	100
55) 1,1,2-Trichloroethane	18.89	97	547475	26.759	ng	99
58) Toluene	19.28	91	2532381	26.956	ng	99
59) 2-Hexanone	19.58	43	1400765	28.689	ng	100
60) Dibromochloromethane	19.82	129	613012	30.559	ng	100
61) 1,2-Dibromoethane	20.15	107	619801	29.314	ng	99
62) n-Butyl Acetate	20.39	43	1666866	31.288	ng	99
63) n-Octane	20.56	57	565014	26.981	ng	94
64) Tetrachloroethene	20.76	166	616353	26.439	ng	100
65) Chlorobenzene	21.62	112	1574474	27.291	ng	99
66) Ethylbenzene	22.09	91	2787656	27.484	ng	99
67) m- & p-Xylenes	22.33	91	4338755	53.958	ng	100
68) Bromoform	22.42	173	508656	29.212	ng	100
69) Styrene	22.77	104	1750906	29.458	ng	99
70) o-Xylene	22.92	91	2234503	27.623	ng	99
71) n-Nonane	23.17	43	1287447	26.429	ng	94
72) 1,1,2,2-Tetrachloroethane	22.89	83	1004176	28.898	ng	99
74) Cumene	23.66	105	2788818	26.590	ng	99
75) alpha-Pinene	24.15	93	1368269	26.441	ng	99
76) n-Propylbenzene	24.28	91	3462821	26.713	ng	100
77) 3-Ethyltoluene	24.41	105	2770931	28.200	ng	99
78) 4-Ethyltoluene	24.46	105	2777194	28.115	ng	98
79) 1,3,5-Trimethylbenzene	24.55	105	2322017	28.429	ng	100

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Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 09:08:41 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration

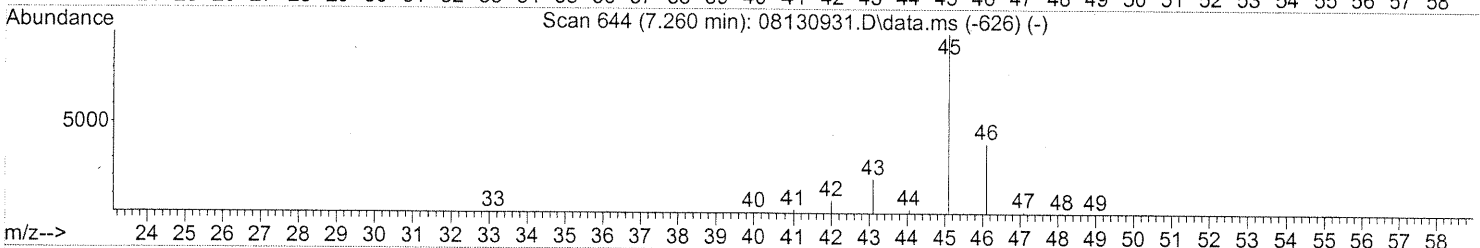
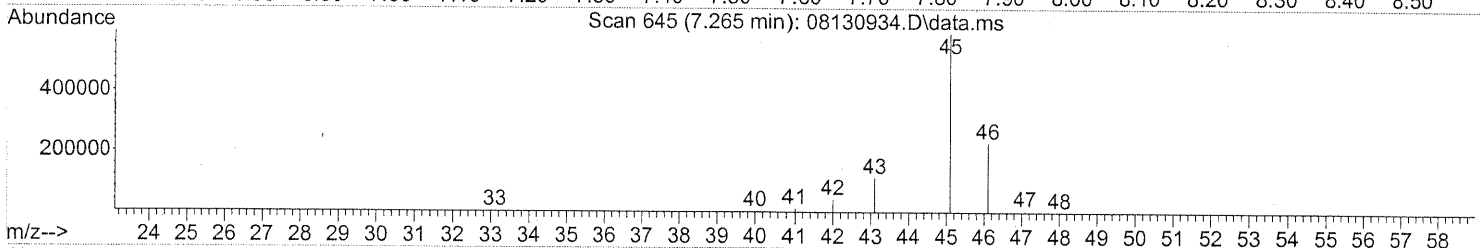
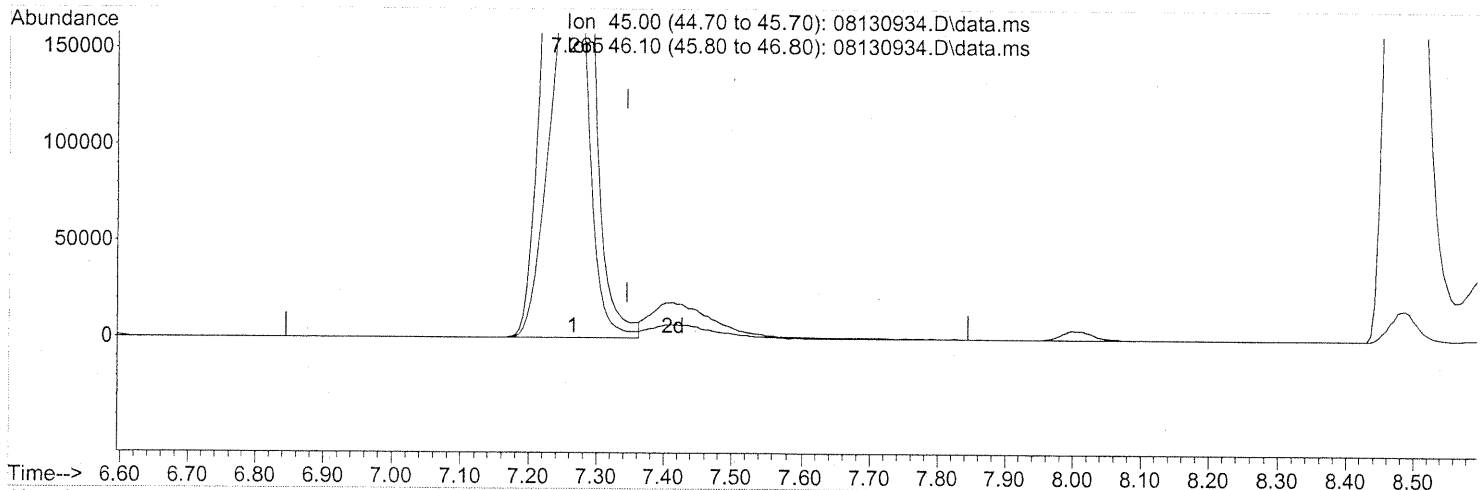
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1304171	29.427	ng	99
81) 2-Ethyltoluene	24.79	105	2766681	27.266	ng	100
82) 1,2,4-Trimethylbenzene	25.05	105	2490909	28.723	ng	99
83) n-Decane	25.15	57	1378346	27.307	ng	96
84) Benzyl Chloride	25.22	91	2140806	31.908	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1296940	28.888	ng	100
86) 1,4-Dichlorobenzene	25.33	146	1331268	27.947	ng	100
87) sec-Butylbenzene	25.38	105	3145430	27.525	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3016689	27.552	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2500322	28.525	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1277785	28.345	ng	100
91) d-Limonene	25.74	68	1049611	29.583	ng	96
92) 1,2-Dibromo-3-Chloropr...	26.26	157	440710	32.373	ng	95
93) n-Undecane	26.65	57	1469089	28.166	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	966603	30.692	ng	99
95) Naphthalene	27.94	128	3356047	28.842	ng	100
96) n-Dodecane	27.89	57	1529739	26.201	ng	97
97) Hexachlorobutadiene	28.36	225	537772	29.903	ng	99
98) Cyclohexanone	22.51	55	852691	28.820	ng	95
99) tert-Butylbenzene	25.05	119	2409546	28.016	ng	100
100) n-Butylbenzene	26.07	91	2612795	28.727	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

(10) Ethanol (T)

7.265min (-0.080) 110.49ng

response 2112003

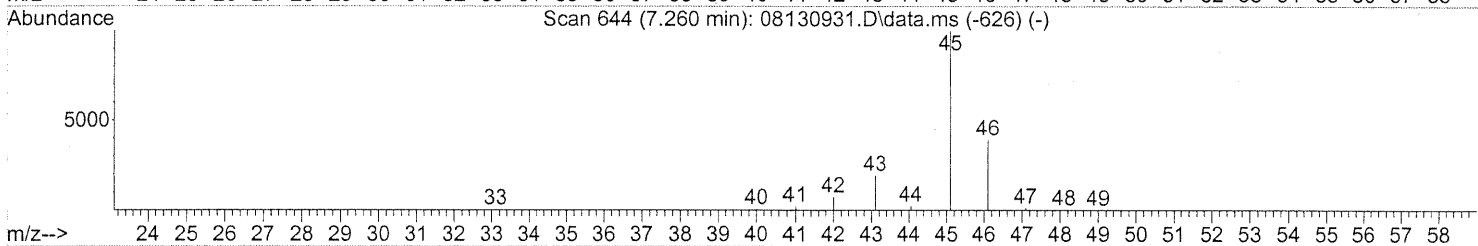
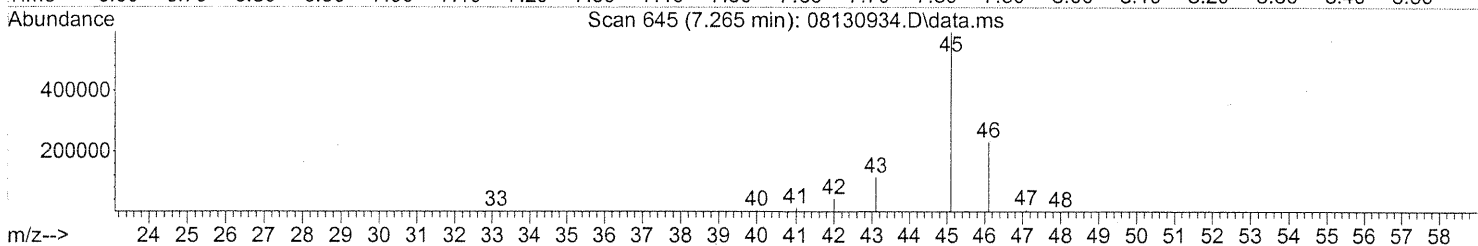
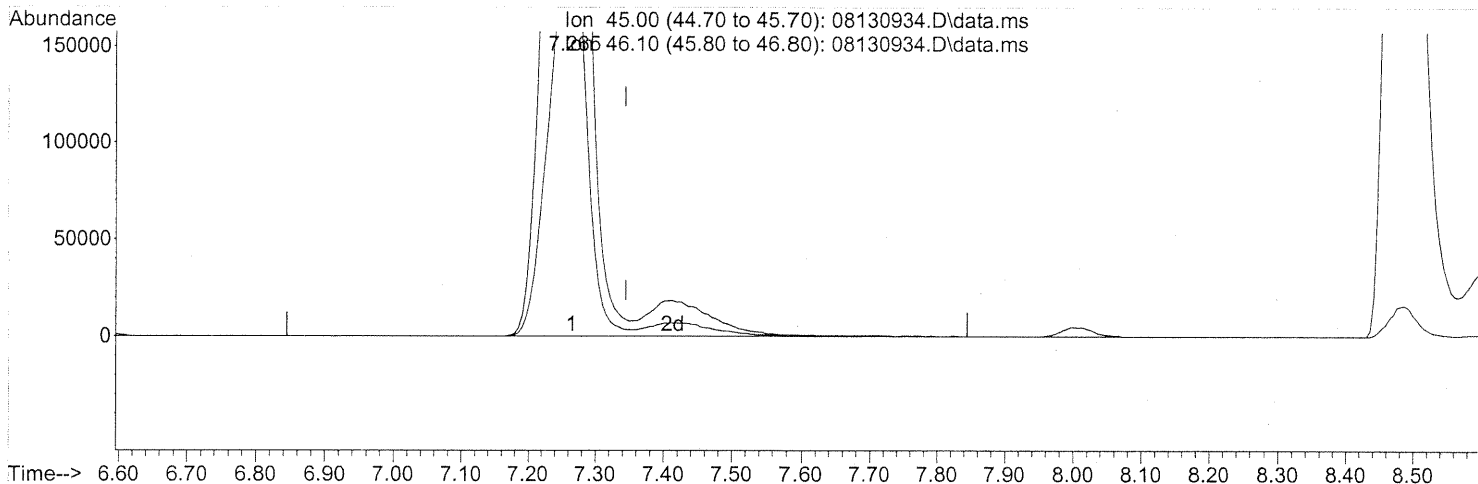
Ion	Exp%	Act%
45.00	100	100
46.10	39.00	38.87
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

(10) Ethanol (T)
 7.265min (-0.080) 116.80ng m
 response 2232593

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	36.77
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
 em 8/13/09
 14

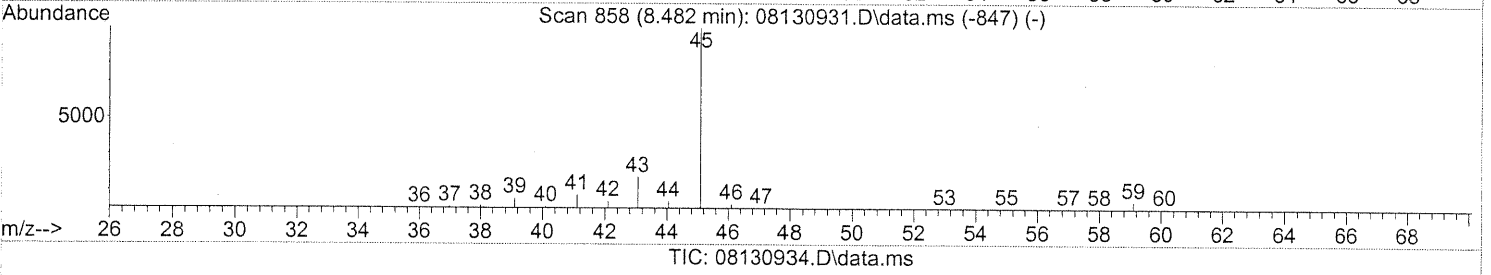
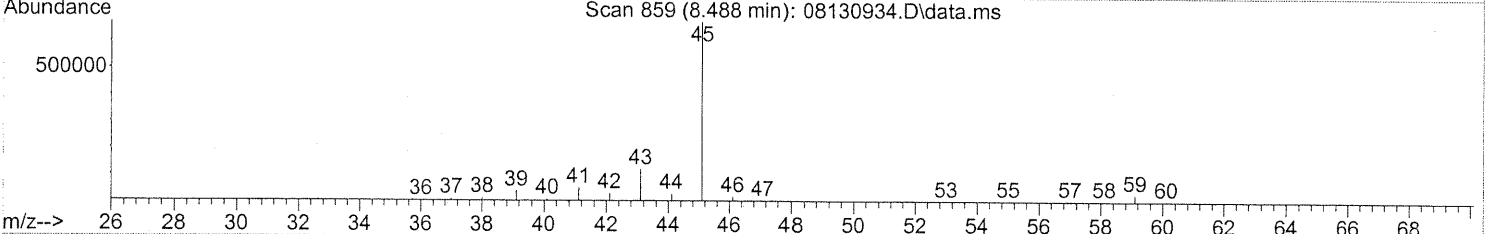
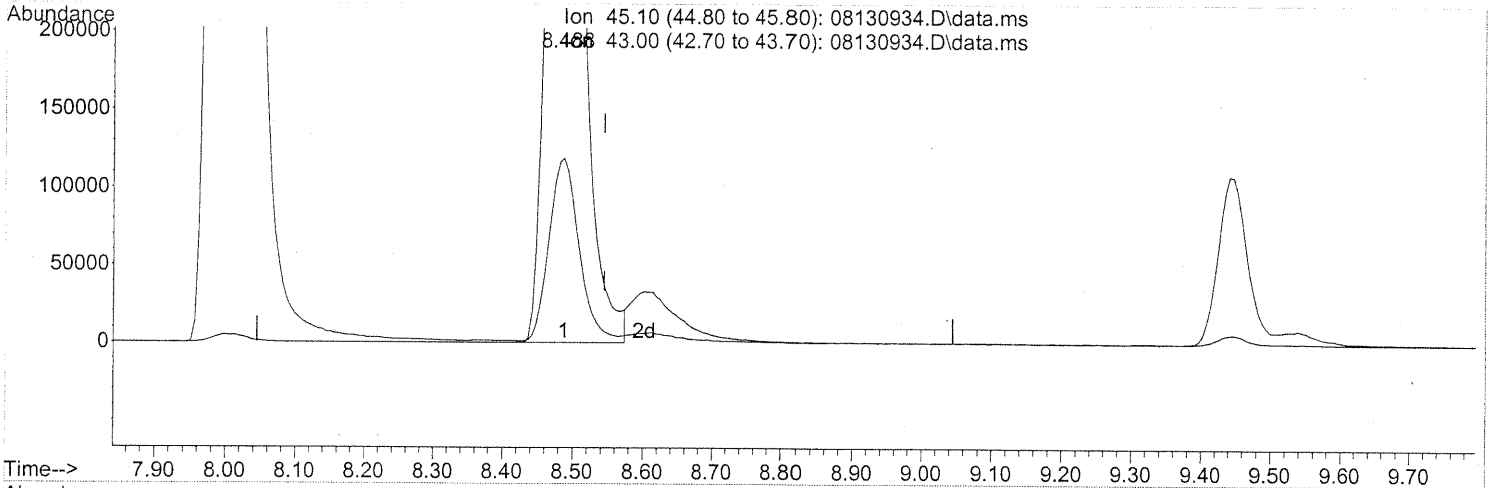
DA 8/15/09

421

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



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

8.488min (-0.057) 37.42ng

response 1993602

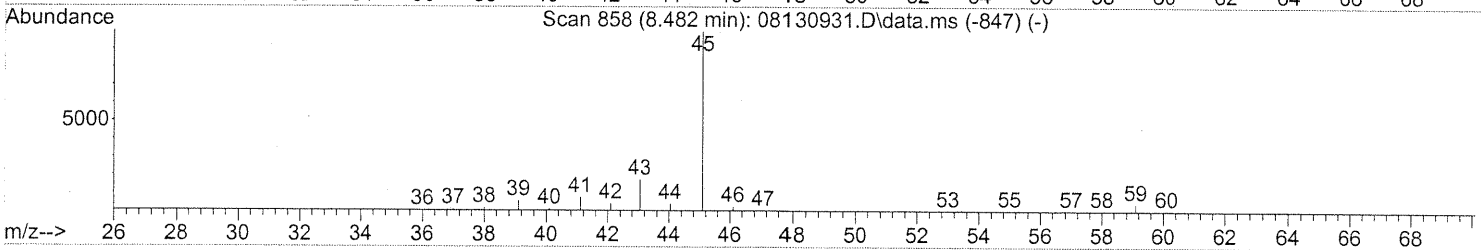
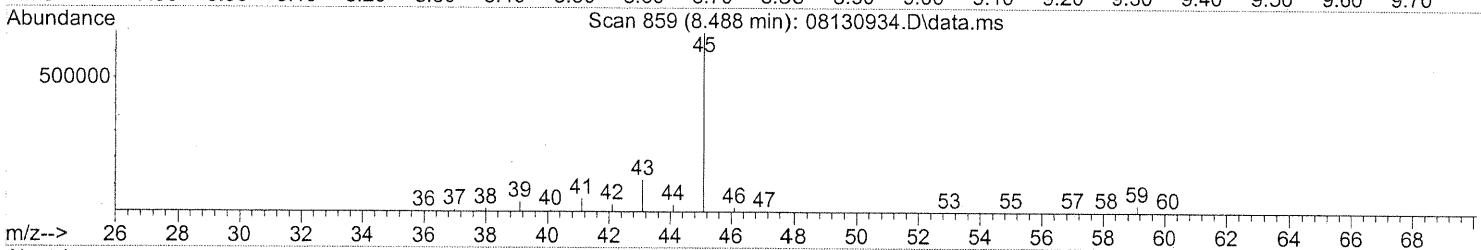
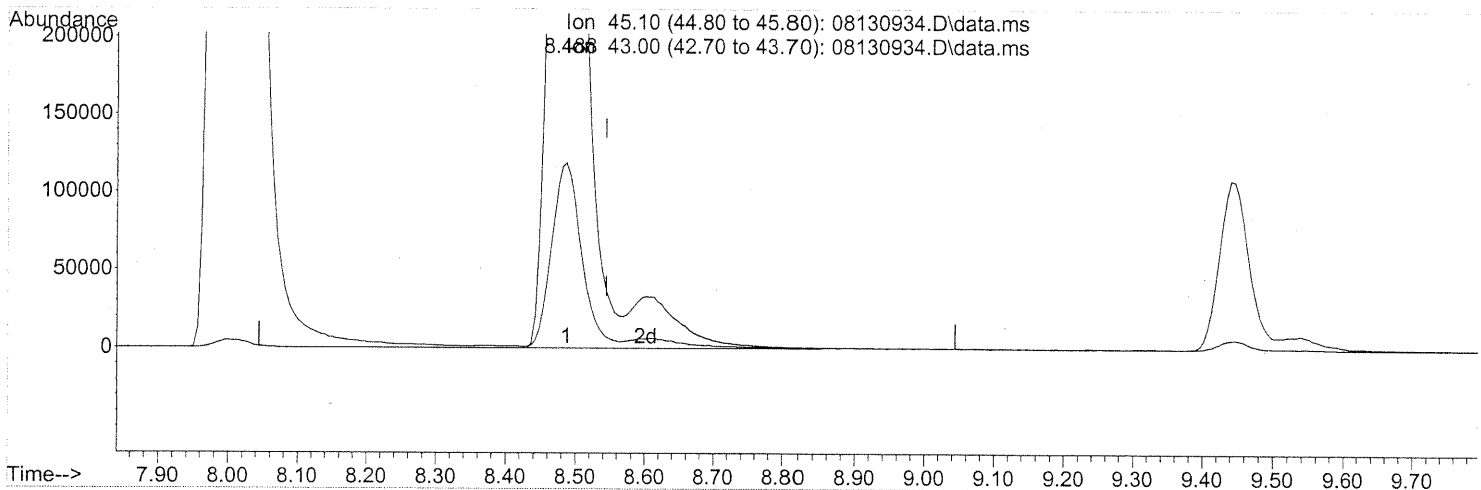
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	17.46
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130934.D
 Acq On : 14 Aug 2009 7:29
 Operator : EM
 Sample : 25ng TO-15 ICV STD
 Misc : S20-08130905/S20-08070903
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 08:58:52 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 14 07:39:36 2009
 Response via : Initial Calibration



TIC: 08130934.D\data.ms

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

8.488min (-0.057) 40.54ng m

response 2159425

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	16.12
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
em 8/13/09
14

DA 8/15/09 **423**

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.83	24.8	26.3	94.3	70	130	*
3)	Dichlorodifluoromethane (CFC	5.00	23.1	26.0	88.8	70	130	*
4)	Chloromethane	5.33	21.9	25.0	87.6	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.59	24.6	26.0	94.6	70	130	*
6)	Vinyl Chloride	5.79	21.9	25.3	86.6	70	130	*
7)	1,3-Butadiene	6.08	24.7	26.8	92.2	70	130	*
8)	Bromomethane	6.58	24.7	25.8	95.7	70	130	*
9)	Chloroethane	6.93	22.9	25.5	89.8	70	130	*
10)	Ethanol	7.27	116.8	130.0	89.8	70	130	*
11)	Acetonitrile	7.57	23.4	26.0	90.0	70	130	*
12)	Acrolein	7.79	27.0	26.3	102.7	70	130	*
13)	Acetone	8.01	112.7	132.0	85.4	70	130	*
14)	Trichlorofluoromethane	8.29	24.2	26.3	92.0	70	130	*
15)	2-Propanol (Isopropanol)	8.49	40.5	48.0	84.4	70	130	*
16)	Acrylonitrile	8.81	27.8	25.8	107.8	70	130	*
17)	1,1-Dichloroethene	9.33	25.5	27.5	92.7	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.45	52.2	50.0	104.4	70	130	*
19)	Methylene Chloride	9.54	23.4	26.8	87.3	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.73	26.5	27.0	98.1	70	130	*
21)	Trichlorotrifluoroethane	9.98	27.7	27.5	100.7	70	130	*
22)	Carbon Disulfide	9.93	24.1	26.0	92.7	70	130	*
23)	trans-1,2-Dichloroethene	11.00	24.7	25.5	96.9	70	130	*
24)	1,1-Dichloroethane	11.31	25.1	26.5	94.7	70	130	*
25)	Methyl tert-Butyl Ether	11.40	25.9	26.3	98.5	70	130	*
26)	Vinyl Acetate	11.56	148.4	126.0	117.8	70	130	*
27)	2-Butanone (MEK)	11.89	29.6	26.8	110.4	70	130	*
28)	cis-1,2-Dichloroethene	12.58	26.2	27.0	97.0	70	130	*
29)	Diisopropyl Ether	12.91	26.2	26.5	98.9	70	130	*
30)	Ethyl Acetate	12.90	52.1	52.0	100.2	70	130	*
31)	n-Hexane	12.93	24.1	26.0	92.7	70	130	*
32)	Chloroform	13.03	25.8	27.5	93.8	70	130	*
34)	Tetrahydrofuran (THF)	13.58	27.2	26.5	102.6	70	130	*
35)	Ethyl tert-Butyl Ether	13.71	25.4	25.5	99.6	70	130	*
36)	1,2-Dichloroethane	14.13	26.4	26.3	100.4	70	130	*
38)	1,1,1-Trichloroethane	14.54	25.7	26.0	98.8	70	130	*
39)	Isopropyl Acetate	15.07	55.0	52.3	105.2	70	130	*
40)	1-Butanol	15.09	59.5	52.8	112.7	70	130	*
41)	Benzene	15.23	24.4	25.8	94.6	70	130	*
42)	Carbon Tetrachloride	15.46	26.8	26.3	101.9	70	130	*
43)	Cyclohexane	15.66	49.9	51.8	96.3	70	130	*
44)	tert-Amyl Methyl Ether	16.10	25.4	25.5	99.6	70	130	*
45)	1,2-Dichloropropane	16.43	25.4	26.0	97.7	70	130	*
46)	Bromodichloromethane	16.70	26.6	26.3	101.1	70	130	*
47)	Trichloroethene	16.77	25.0	25.8	96.9	70	130	*
48)	1,4-Dioxane	16.72	28.7	26.0	110.4	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.86	24.1	25.8	93.4	70	130	*
50)	Methyl Methacrylate	17.02	54.4	52.8	103.0	70	130	*

EM 8/14/09

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INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08130934.D

Acq. Method File: TO15LOW.M

Data File Path: J:\MS09\Data\2009_08\13\

Name: 25ng TO-15 ICV STD

Operator: EM

Misc Info: S20-08130905/S20-08070903

Date Acquired: 8/14/09 7:29

Instrument Name: MS09

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	17.21	24.8	25.8	96.1	70	130	*
52)	cis-1,3-Dichloropropene	17.95	26.1	24.5	106.5	70	130	*
53)	4-Methyl-2-pentanone	17.98	28.8	26.8	107.5	70	130	*
54)	trans-1,3-Dichloropropene	18.64	30.4	27.0	112.6	70	130	*
55)	1,1,2-Trichloroethane	18.89	26.8	26.0	103.1	70	130	*
58)	Toluene	19.28	27.0	26.8	100.7	70	130	*
59)	2-Hexanone	19.58	28.7	27.0	106.3	70	130	*
60)	Dibromochloromethane	19.82	30.6	28.3	108.1	70	130	*
61)	1,2-Dibromoethane	20.15	29.3	26.3	111.4	70	130	*
62)	n-Butyl Acetate	20.39	31.3	27.5	113.8	70	130	*
63)	n-Octane	20.56	27.0	26.3	102.7	70	130	*
64)	Tetrachloroethene	20.76	26.4	25.3	104.3	70	130	*
65)	Chlorobenzene	21.62	27.3	26.5	103.0	70	130	*
66)	Ethylbenzene	22.09	27.5	26.3	104.6	70	130	*
67)	m- & p-Xylenes	22.33	54.0	51.5	104.9	70	130	*
68)	Bromoform	22.42	29.2	26.5	110.2	70	130	*
69)	Styrene	22.77	29.5	26.3	112.2	70	130	*
70)	o-Xylene	22.92	27.6	26.0	106.2	70	130	*
71)	n-Nonane	23.17	26.4	25.8	102.3	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.89	28.9	27.0	107.0	70	130	*
74)	Cumene	23.66	26.6	25.3	105.1	70	130	*
75)	alpha-Pinene	24.15	26.4	24.8	106.5	70	130	*
76)	n-Propylbenzene	24.28	26.7	25.3	105.5	70	130	*
77)	3-Ethyltoluene	24.41	28.2	26.3	107.2	70	130	*
78)	4-Ethyltoluene	24.46	28.1	26.3	106.8	70	130	*
79)	1,3,5-Trimethylbenzene	24.55	28.4	26.5	107.2	70	130	*
80)	alpha-Methylstyrene	24.74	29.4	26.0	113.1	70	130	*
81)	2-Ethyltoluene	24.79	27.3	26.0	105.0	70	130	*
82)	1,2,4-Trimethylbenzene	25.05	28.7	25.5	112.5	70	130	*
83)	n-Decane	25.15	27.3	26.3	103.8	70	130	*
84)	Benzyl Chloride	25.22	31.9	26.8	119.0	70	130	*
85)	1,3-Dichlorobenzene	25.25	28.9	26.0	111.2	70	130	*
86)	1,4-Dichlorobenzene	25.33	27.9	26.3	106.1	70	130	*
87)	sec-Butylbenzene	25.38	27.5	25.8	106.6	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.57	27.6	25.0	110.4	70	130	*
89)	1,2,3-Trimethylbenzene	25.57	28.5	26.0	109.6	70	130	*
90)	1,2-Dichlorobenzene	25.74	28.3	25.8	109.7	70	130	*
91)	d-Limonene	25.74	29.6	26.5	111.7	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.26	32.4	27.0	120.0	70	130	*
93)	n-Undecane	26.65	28.2	26.3	107.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.79	30.7	27.3	112.5	70	130	*
95)	Naphthalene	27.94	28.8	25.0	115.2	70	130	*
96)	n-Dodecane	27.89	26.2	24.3	107.8	70	130	*
97)	Hexachlorobutadiene	28.36	29.9	26.8	111.6	70	130	*
98)	Cyclohexanone	22.51	28.8	24.8	116.1	70	130	*
99)	tert-Butylbenzene	25.05	28.0	26.5	105.7	70	130	*
100)	n-Butylbenzene	26.07	28.7	26.5	108.3	70	130	*

* Denotes Passing Criterion

EM 8/14/09

CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	100	-0.02
2	T Propene	2.193	2.290	-4.4	100	0.00
3	T Dichlorodifluoromethane (CF	3.130	2.931	6.4	100	0.00
4	T Chloromethane	2.918	2.912	0.2	100	-0.01
5	T 1,2-Dichloro-1,1,2,2-tetra	1.654	1.592	3.7	100	-0.01
6	T Vinyl Chloride	2.878	2.744	4.7	100	-0.01
7	T 1,3-Butadiene	2.044	2.073	-1.4	100	-0.01
8	T Bromomethane	1.505	1.488	1.1	100	-0.02
9	T Chloroethane	1.428	1.388	2.8	100	-0.01
10	T Ethanol	1.376	1.397	-1.5	100	-0.09
11	T Acetonitrile	3.357	3.308	1.5	100	-0.05
12	T Acrolein	0.897	0.968	-7.9	100	-0.02
13	T Acetone	1.400	1.261	9.9	100	-0.05
14	T Trichlorofluoromethane	2.677	2.632	1.7	100	-0.02
15	T 2-Propanol (Isopropanol)	3.834	3.561	7.1	100	-0.06
16	T Acrylonitrile	2.033	2.314	-13.8	100	-0.04
17	T 1,1-Dichloroethene	1.571	1.503	4.3	100	-0.02
18	T 2-Methyl-2-Propanol (tert-B	3.892	4.261	-9.5	100	-0.05
19	T Methylene Chloride	1.747	1.591	8.9	100	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.342	2.488	-6.2	100	-0.02
21	T Trichlorotrifluoroethane	1.198	1.220	-1.8	100	-0.02
22	T Carbon Disulfide	6.163	5.960	3.3	100	-0.02
23	T trans-1,2-Dichloroethene	2.411	2.447	-1.5	100	-0.02
24	T 1,1-Dichloroethane	2.952	2.922	1.0	100	-0.02
25	T Methyl tert-Butyl Ether	4.784	4.811	-0.6	100	-0.01
26	T Vinyl Acetate	0.303	0.357	-17.8	100	-0.03
27	T 2-Butanone (MEK)	0.976	1.121	-14.9	100	-0.03
28	T cis-1,2-Dichloroethene	2.250	2.250	0.0	100	-0.02
29	T Diisopropyl Ether	1.386	1.407	-1.5	100	-0.01
30	T Ethyl Acetate	0.633	0.673	-6.3	100	-0.03
31	T n-Hexane	3.085	2.950	4.4	100	-0.01
32	T Chloroform	2.582	2.559	0.9	100	-0.03
33	S 1,2-Dichloroethane-d4 (SS1)	1.768	1.756	0.7	100	-0.02
34	T Tetrahydrofuran (THF)	1.015	1.060	-4.4	100	-0.01
35	T Ethyl tert-Butyl Ether	1.977	2.017	-2.0	100	-0.01
36	T 1,2-Dichloroethane	1.976	2.029	-2.7	100	-0.02
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	100	-0.02
38	T 1,1,1-Trichloroethane	0.455	0.451	0.9	100	-0.01

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SEM 8/14/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	0.204	0.228	-11.8	100	-0.03
40 T	1-Butanol	0.324	0.388	-19.8	100	-0.06
41 T	Benzene	1.344	1.281	4.7	100	-0.01
42 T	Carbon Tetrachloride	0.376	0.378	-0.5	100	-0.01
43 T	Cyclohexane	0.521	0.516	1.0	100	-0.02
44 T	tert-Amyl Methyl Ether	0.945	0.958	-1.4	100	-0.01
45 T	1,2-Dichloropropane	0.330	0.336	-1.8	100	-0.02
46 T	Bromodichloromethane	0.393	0.412	-4.8	100	-0.02
47 T	Trichloroethene	0.341	0.328	3.8	100	-0.02
48 T	1,4-Dioxane	0.239	0.272	-13.8	100	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.547	1.519	1.8	100	-0.02
50 T	Methyl Methacrylate	0.134	0.140	-4.5	100	-0.02
51 T	n-Heptane	0.358	0.357	0.3	100	-0.01
52 T	cis-1,3-Dichloropropene	0.497	0.543	-9.3	100	-0.01
53 T	4-Methyl-2-pentanone	0.291	0.328	-12.7	100	-0.02
54 T	trans-1,3-Dichloropropene	0.435	0.496	-14.0	100	-0.02
55 T	1,1,2-Trichloroethane	0.287	0.302	-5.2	100	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	0.00
57 S	Toluene-d8 (SS2)	2.377	2.378	-0.0	100	-0.01
58 T	Toluene	2.881	2.825	1.9	100	0.00
59 T	2-Hexanone	1.497	1.609	-7.5	100	-0.02
60 T	Dibromochloromethane	0.615	0.658	-7.0	100	0.00
61 T	1,2-Dibromoethane	0.648	0.697	-7.6	100	-0.01
62 T	n-Butyl Acetate	1.634	1.883	-15.2	100	-0.02
63 T	n-Octane	0.642	0.651	-1.4	100	-0.01
64 T	Tetrachloroethene	0.715	0.715	0.0	100	0.00
65 T	Chlorobenzene	1.769	1.736	1.9	100	-0.01
66 T	Ethylbenzene	3.111	3.146	-1.1	100	0.00
67 T	m- & p-Xylenes	2.466	2.488	-0.9	100	-0.02
68 T	Bromoform	0.534	0.592	-10.9	100	0.00
69 T	Styrene	1.823	1.936	-6.2	100	-0.01
70 T	o-Xylene	2.481	2.507	-1.0	100	-0.01
71 T	n-Nonane	1.494	1.512	-1.2	100	0.00
72 T	1,1,2,2-Tetrachloroethane	1.066	1.120	-5.1	100	-0.02
73 S	Bromofluorobenzene (SS3)	0.673	0.677	-0.6	100	0.00
74 T	Cumene	3.217	3.250	-1.0	100	0.00
75 T	alpha-Pinene	1.587	1.629	-2.6	100	0.00
76 T	n-Propylbenzene	3.975	4.041	-1.7	100	-0.01

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Em 8/14/09

Evaluate Continuing Calibration Report

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 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	3.013	3.119	-3.5	100	0.00
78 T	4-Ethyltoluene	3.029	2.991	1.3	100	-0.01
79 T	1,3,5-Trimethylbenzene	2.505	2.495	0.4	100	0.00
80 T	alpha-Methylstyrene	1.359	1.447	-6.5	100	-0.01
81 T	2-Ethyltoluene	3.112	3.115	-0.1	100	-0.01
82 T	1,2,4-Trimethylbenzene	2.660	2.756	-3.6	100	-0.01
83 T	n-Decane	1.548	1.557	-0.6	100	-0.01
84 T	Benzyl Chloride	2.058	2.350	-14.2	100	-0.02
85 T	1,3-Dichlorobenzene	1.377	1.384	-0.5	100	-0.02
86 T	1,4-Dichlorobenzene	1.461	1.452	0.6	100	-0.01
87 T	sec-Butylbenzene	3.505	3.526	-0.6	100	-0.01
88 T	4-Isopropyltoluene (p-Cymen)	3.358	3.474	-3.5	100	-0.01
89 T	1,2,3-Trimethylbenzene	2.688	2.766	-2.9	100	-0.01
90 T	1,2-Dichlorobenzene	1.382	1.394	-0.9	100	-0.01
91 T	d-Limonene	1.088	1.162	-6.8	100	-0.01
92 T	1,2-Dibromo-3-Chloropropane	0.417	0.466	-11.8	100	0.00
93 T	n-Undecane	1.600	1.633	-2.1	100	0.00
94 T	1,2,4-Trichlorobenzene	0.966	0.973	-0.7	100	-0.01
95 T	Naphthalene	3.568	3.603	-1.0	100	0.00
96 T	n-Dodecane	1.790	1.836	-2.6	100	0.00
97 T	Hexachlorobutadiene	0.552	0.556	-0.7	100	0.00
98 T	Cyclohexanone	0.907	1.045	-15.2	100	-0.02
99 T	tert-Butylbenzene	2.638	2.702	-2.4	100	-0.01
100 T	n-Butylbenzene	2.789	2.854	-2.3	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.82	130	364116	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.75	114	1865895	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.56	82	897905	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.97	65	639555	24.827	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.32%	
57) Toluene-d8 (SS2)	19.15	98	2134862	24.032	ng	-0.01
Spiked Amount	25.000		Recovery	=	96.12%	
73) Bromofluorobenzene (SS3)	23.49	174	608116	22.770	ng	0.00
Spiked Amount	25.000		Recovery	=	91.08%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	893813	38.911	ng	96
3) Dichlorodifluoromethan...	5.00	85	1122799	24.492	ng	99
4) Chloromethane	5.33	50	1060306	30.886	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.59	135	614382	23.795	ng	100
6) Vinyl Chloride	5.80	62	1011049	27.626	ng	99
7) 1,3-Butadiene	6.08	54	905992	34.431	ng	99
8) Bromomethane	6.58	94	552570	25.596	ng	100
9) Chloroethane	6.93	64	511522	27.936	ng	100
10) Ethanol	7.26	45	2645495m	173.570	ng	
11) Acetonitrile	7.57	41	1267304	36.772	ng	98
12) Acrolein	7.79	56	380570	34.250	ng	98
13) Acetone	8.01	58	2533900	146.162	ng	88
14) Trichlorofluoromethane	8.29	101	1008004	25.243	ng	98
15) 2-Propanol (Isopropanol)	8.48	45	2453135m	53.777	ng	
16) Acrylonitrile	8.80	53	893242	38.407	ng	98
17) 1,1-Dichloroethene	9.33	96	601910	29.600	ng	97
18) 2-Methyl-2-Propanol (t...	9.44	59	3134377	61.010	ng	97
19) Methylene Chloride	9.54	84	621124	27.058	ng	89
20) 3-Chloro-1-propene (Al...	9.73	41	978578	39.503	ng	90
21) Trichlorotrifluoroethane	9.98	151	488676	26.977	ng	97
22) Carbon Disulfide	9.93	76	2326514	29.756	ng	99
23) trans-1,2-Dichloroethene	11.00	61	944327	31.664	ng	92
24) 1,1-Dichloroethane	11.31	63	1127620	31.017	ng	100
25) Methyl tert-Butyl Ether	11.40	73	1913053	29.838	ng	96
26) Vinyl Acetate	11.56	86	656008	158.651	ng	# 71
27) 2-Butanone (MEK)	11.89	72	449156	33.967	ng	# 85
28) cis-1,2-Dichloroethene	12.58	61	894671	31.087	ng	93
29) Diisopropyl Ether	12.91	87	549290	26.727	ng	# 69
30) Ethyl Acetate	12.91	61	522358	60.309	ng	97
31) n-Hexane	12.93	57	1172996	29.289	ng	99

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	13.03	83	998779	27.462	ng	100
34) Tetrahydrofuran (THF)	13.58	72	424555	34.073	ng #	88
35) Ethyl tert-Butyl Ether	13.71	87	757840	27.508	ng #	88
36) 1,2-Dichloroethane	14.13	62	783128	26.860	ng	99
38) 1,1,1-Trichloroethane	14.54	97	885515	25.875	ng	99
39) Isopropyl Acetate	15.07	61	888654	65.401	ng #	83
40) 1-Butanol	15.09	56	1501433	64.760	ng	88
41) Benzene	15.23	78	2534149	25.468	ng	98
42) Carbon Tetrachloride	15.46	117	761579	26.057	ng	99
43) Cyclohexane	15.66	84	2072518	55.700	ng	89
44) tert-Amyl Methyl Ether	16.10	73	1859147	28.269	ng	99
45) 1,2-Dichloropropane	16.43	63	658884	31.411	ng	99
46) Bromodichloromethane	16.70	83	830347	28.871	ng	99
47) Trichloroethene	16.77	130	648588	25.505	ng	100
48) 1,4-Dioxane	16.72	88	543245	32.435	ng	89
49) 2,2,4-Trimethylpentane...	16.86	57	2947745	30.571	ng	93
50) Methyl Methacrylate	17.02	100	558743	59.877	ng	92
51) n-Heptane	17.21	71	706671	29.331	ng	94
52) cis-1,3-Dichloropropene	17.95	75	1004919	28.799	ng	100
53) 4-Methyl-2-pentanone	17.99	58	673431	35.750	ng	95
54) trans-1,3-Dichloropropene	18.64	75	1018443	33.158	ng	100
55) 1,1,2-Trichloroethane	18.89	97	592726	28.354	ng	99
58) Toluene	19.28	91	2739340	25.191	ng	100
59) 2-Hexanone	19.58	43	1588763	33.971	ng	99
60) Dibromochloromethane	19.82	129	680507	27.831	ng	99
61) 1,2-Dibromoethane	20.15	107	663705	26.350	ng	99
62) n-Butyl Acetate	20.39	43	1860228	35.779	ng	99
63) n-Octane	20.56	57	626246	29.472	ng	92
64) Tetrachloroethene	20.76	166	654987	22.781	ng	99
65) Chlorobenzene	21.62	112	1683217	24.606	ng	100
66) Ethylbenzene	22.09	91	2994707	25.325	ng	99
67) m- & p-Xylenes	22.33	91	4647270	47.659	ng	100
68) Bromoform	22.42	173	548438	25.169	ng	100
69) Styrene	22.77	104	1863220	25.911	ng	100
70) o-Xylene	22.92	91	2385962	24.562	ng	99
71) n-Nonane	23.18	43	1438625	30.334	ng	93
72) 1,1,2,2-Tetrachloroethane	22.89	83	1078529	26.696	ng	100
74) Cumene	23.66	105	3011318	23.343	ng	99
75) alpha-Pinene	24.15	93	1480597	24.016	ng	99
76) n-Propylbenzene	24.28	91	3744994	24.101	ng	99
77) 3-Ethyltoluene	24.41	105	3058348	25.017	ng	99
78) 4-Ethyltoluene	24.46	105	2932516	23.903	ng	100
79) 1,3,5-Trimethylbenzene	24.55	105	2446240	23.977	ng	100

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em 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:26:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.74	118	1393210	24.411	ng	99
81) 2-Ethyltoluene	24.79	105	2942387	22.975	ng	99
82) 1,2,4-Trimethylbenzene	25.05	105	2623418	22.990	ng	99
83) n-Decane	25.16	57	1509811	27.388	ng	95
84) Benzyl Chloride	25.22	91	2320976	28.376	ng	99
85) 1,3-Dichlorobenzene	25.25	146	1356990	22.655	ng	99
86) 1,4-Dichlorobenzene	25.33	146	1381988	22.145	ng	100
87) sec-Butylbenzene	25.38	105	3356026	23.524	ng	99
88) 4-Isopropyltoluene (p-...	25.57	119	3219478	22.384	ng	99
89) 1,2,3-Trimethylbenzene	25.57	105	2662217	22.911	ng	98
90) 1,2-Dichlorobenzene	25.74	146	1327033	21.315	ng	100
91) d-Limonene	25.74	68	1139413	25.133	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.27	157	460372	26.331	ng	95
93) n-Undecane	26.65	57	1601142	28.367	ng	97
94) 1,2,4-Trichlorobenzene	27.79	180	978833	24.366	ng	99
95) Naphthalene	27.94	128	3428876	24.487	ng	100
96) n-Dodecane	27.89	57	1635236	27.111	ng	96
97) Hexachlorobutadiene	28.36	225	549265	23.899	ng	99
98) Cyclohexanone	22.51	55	919787	28.042	ng	94
99) tert-Butylbenzene	25.05	119	2572033	22.302	ng	100
100) n-Butylbenzene	26.07	91	2798242	24.631	ng	100

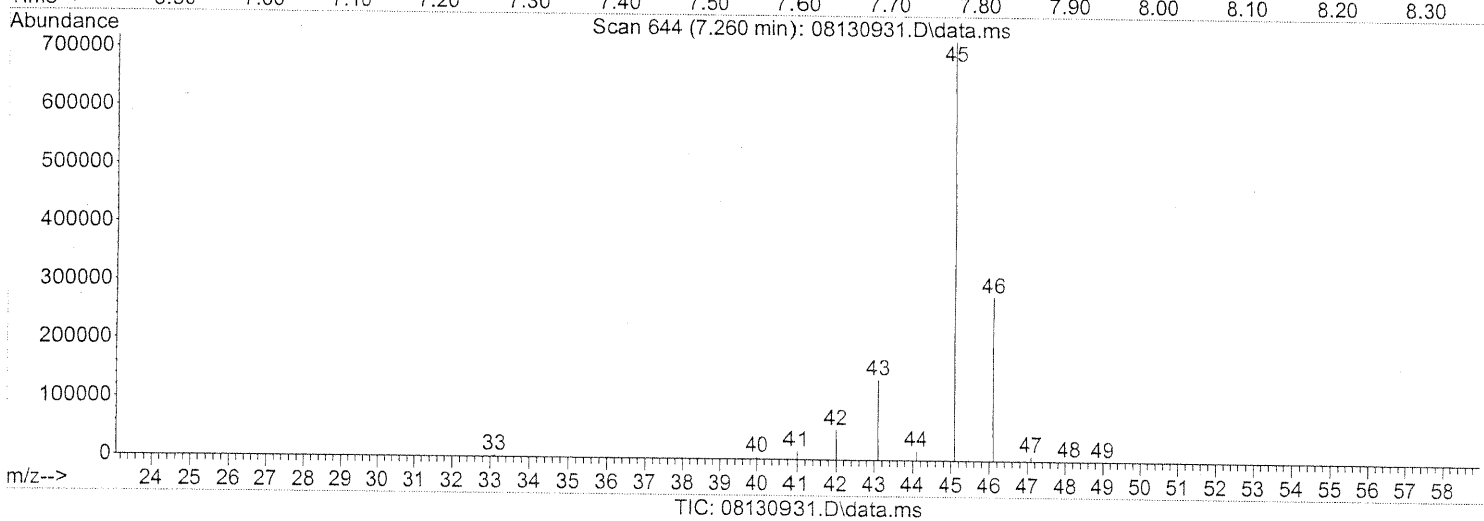
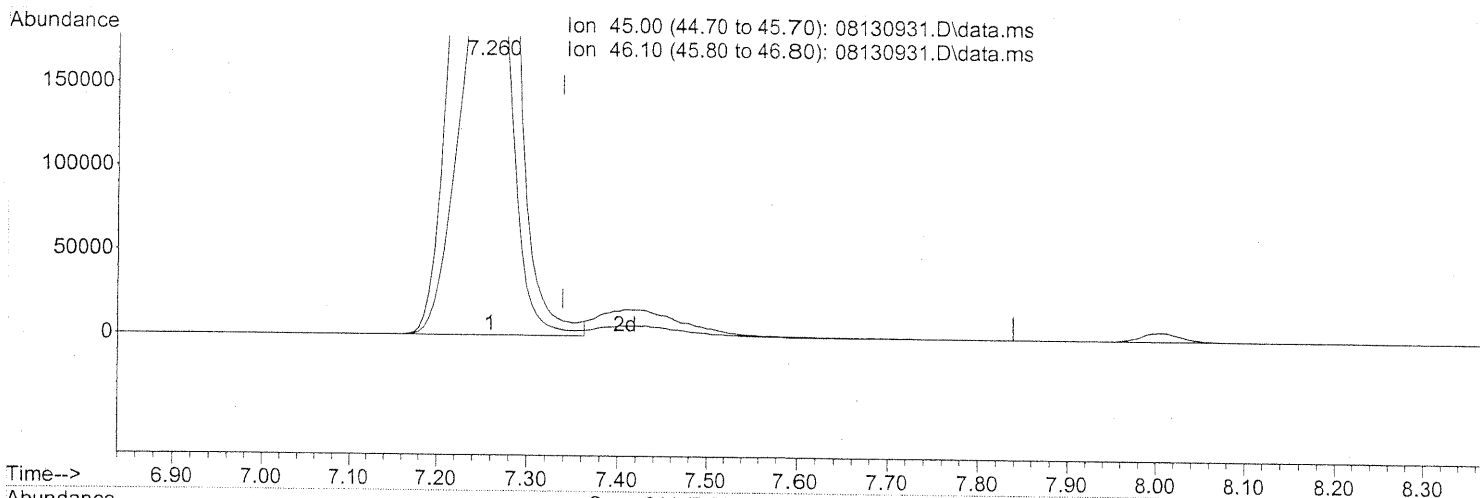
(#) = qualifier out of range (m) = manual integration (+) = signals summed

EM 8/14/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



(10) Ethanol (T)

7.260min (-0.080) 166.43ng

response 2536739

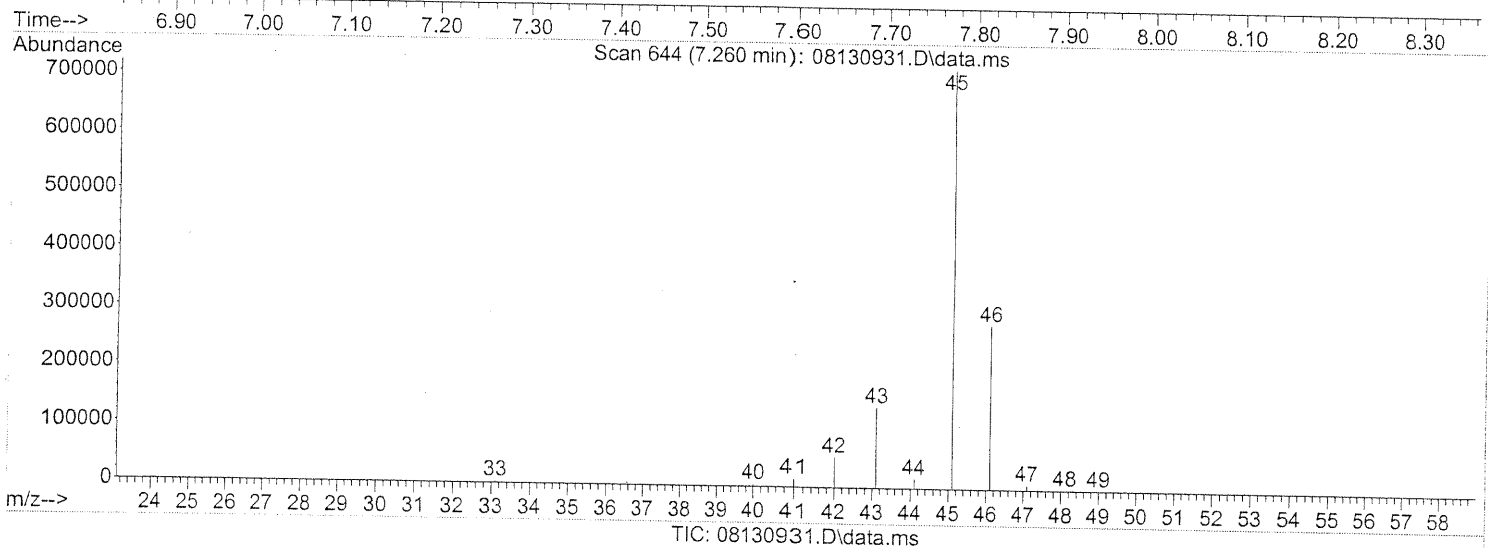
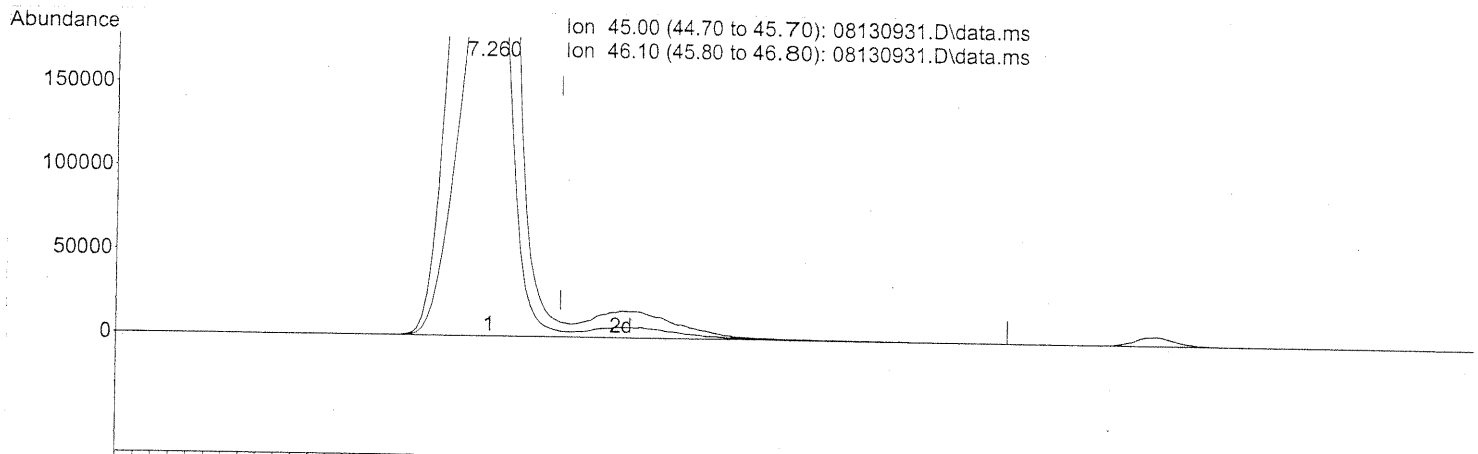
PT

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	39.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



(10) Ethanol (T)
7.260min (-0.080) 173.57ng m
response 2645495

Ion	Exp%	Act%
45.00	100	100
46.10	39.00	37.49
0.00	0.00	0.00
0.00	0.00	0.00

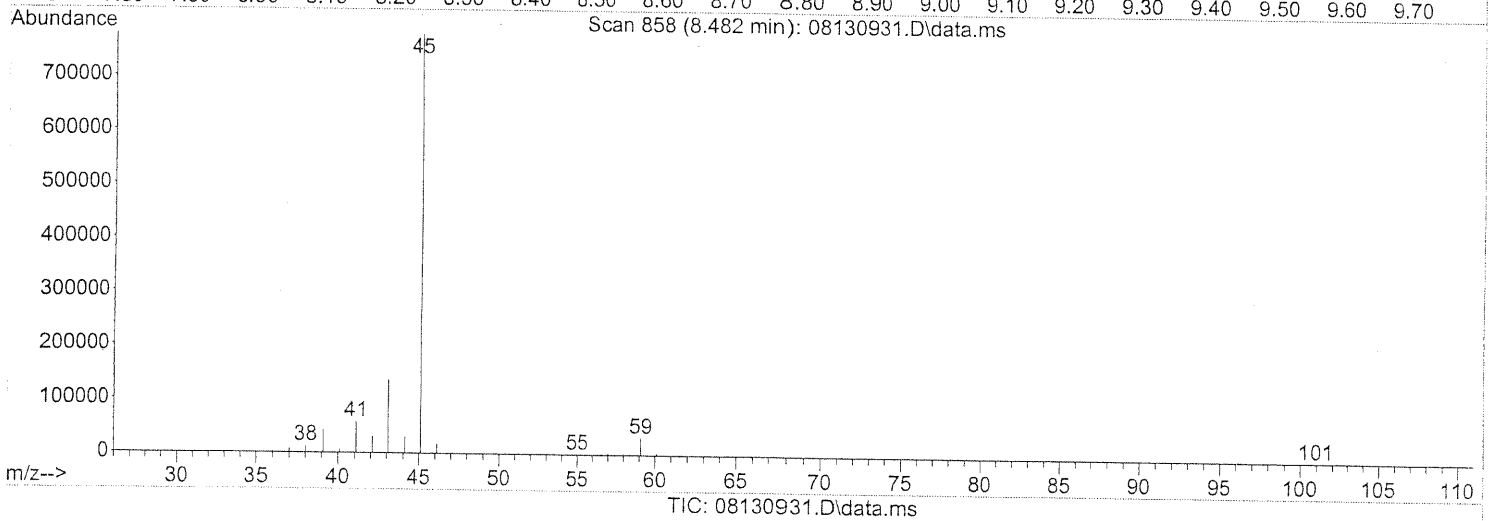
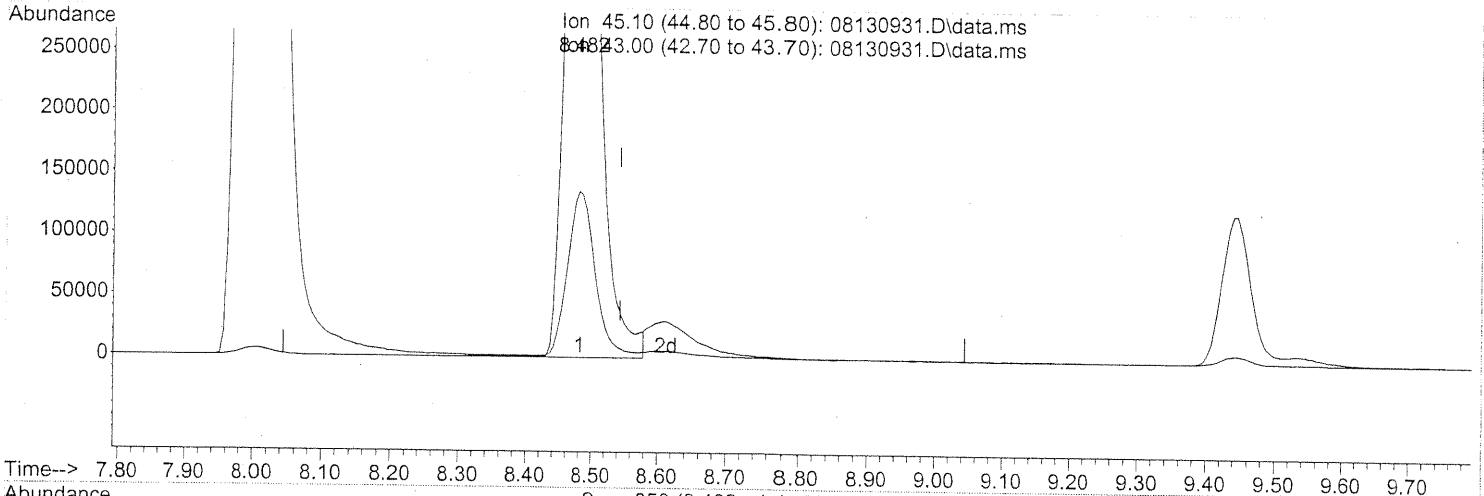
PT → LC
em 8/14/09

RA 8/15/09

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
 Quant Method : J:\MS09\Methods\R9081309.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Mon Jul 27 09:38:25 2009
 Response via : Initial Calibration



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

8.482min (-0.063) 50.45ng

response 2301319

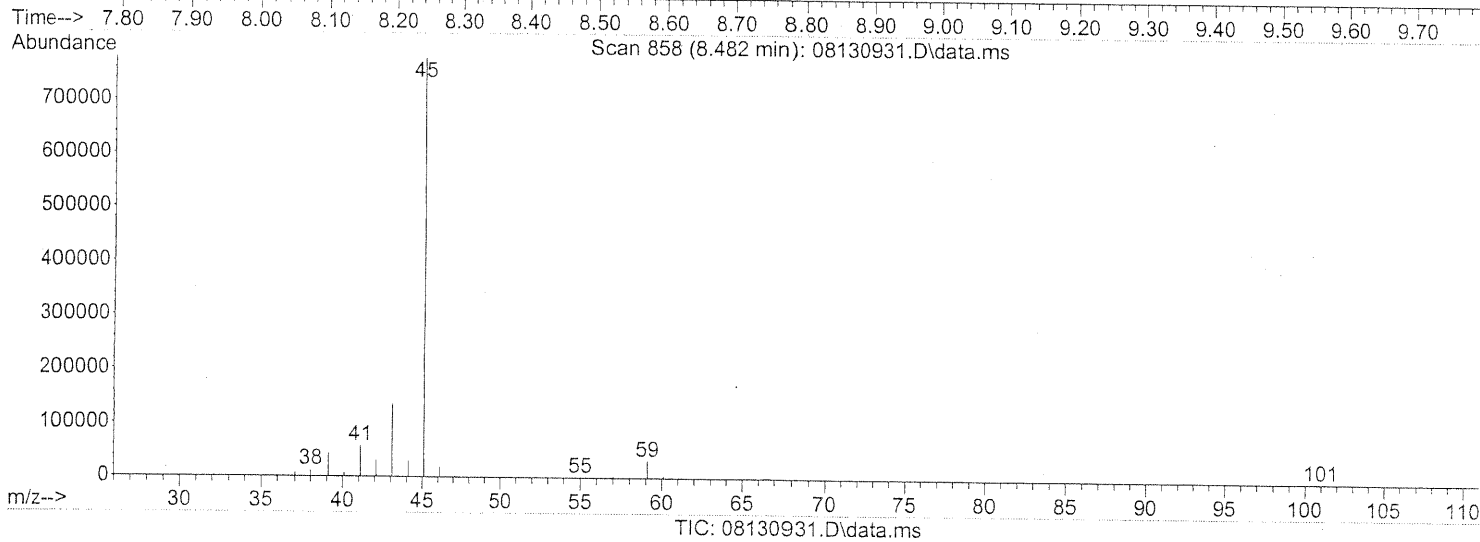
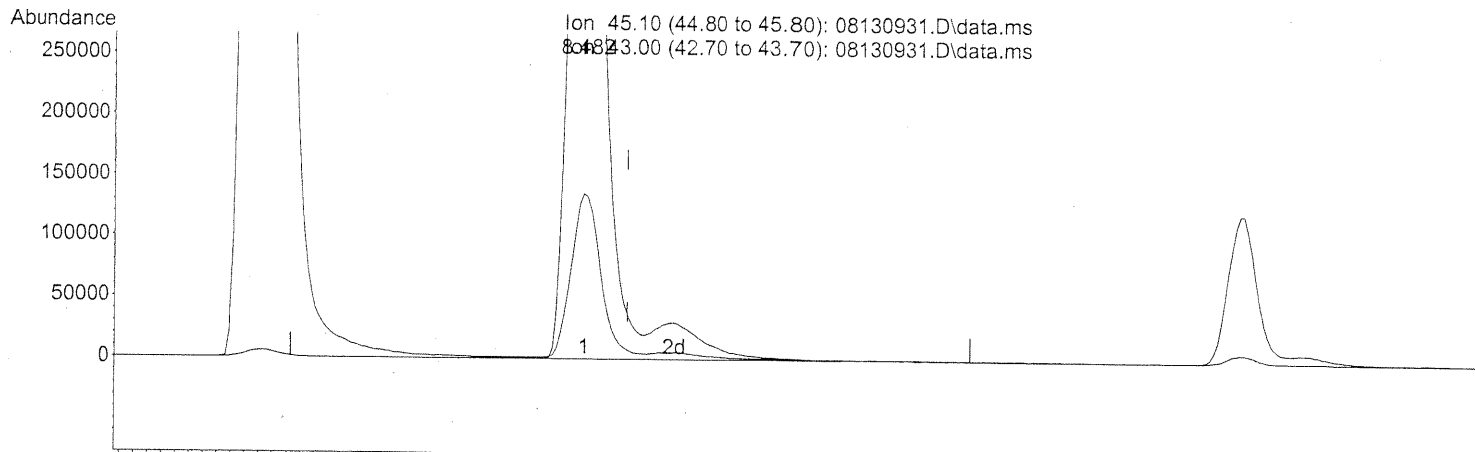
Ion	Exp%	Act%
45.10	100	100
43.00	20.50	19.19
0.00	0.00	0.00
0.00	0.00	0.00

PT

Quantitation Report (Qedit)

Data Path : J:\MS09\Data\2009_08\13\
Data File : 08130931.D
Acq On : 14 Aug 2009 5:24
Operator : EM
Sample : 25ng TO-15 ICAL STD
Misc : S20-08130905/S20-08100902
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Aug 14 07:25:12 2009
Quant Method : J:\MS09\Methods\R9081309.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon Jul 27 09:38:25 2009
Response via : Initial Calibration



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

8.482min (-0.063) 53.78ng m

response 2453135

Ion	Exp%	Act%
45.10	100	100
43.00	20.50	18.00
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
EM 8/14/09

EM 8/15/09

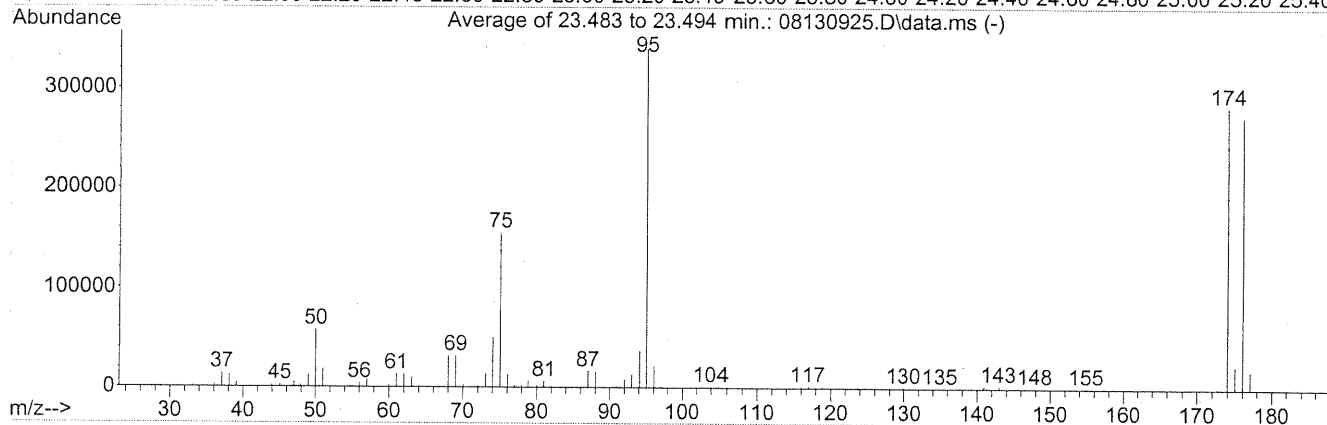
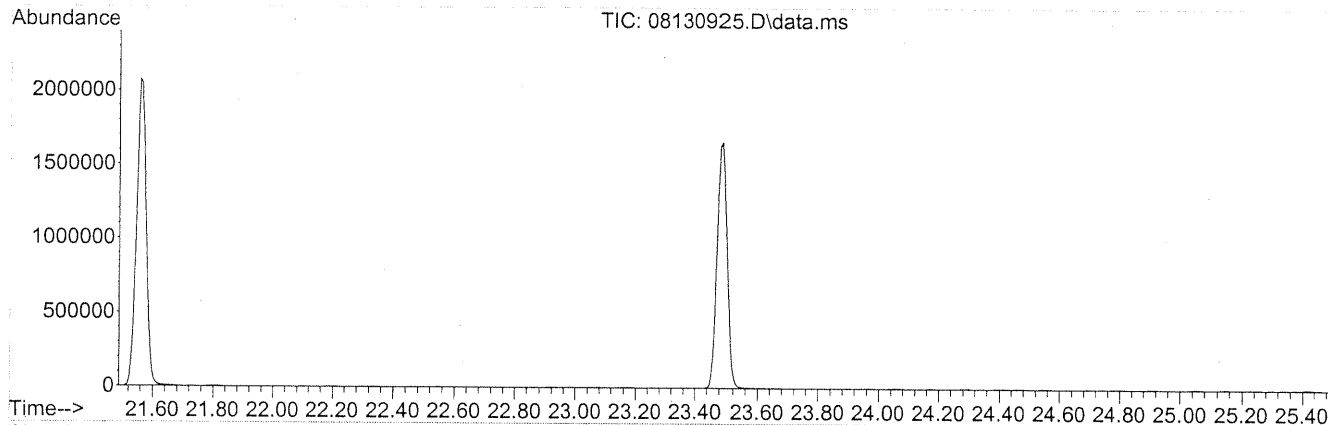
437

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130925.D
 Acq On : 14 Aug 2009 1:14
 Operator : EM
 Sample : TO-15 BFB Standard (200ml)
 Misc : S20-08130905
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Mon Jul 27 09:38:25 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3474

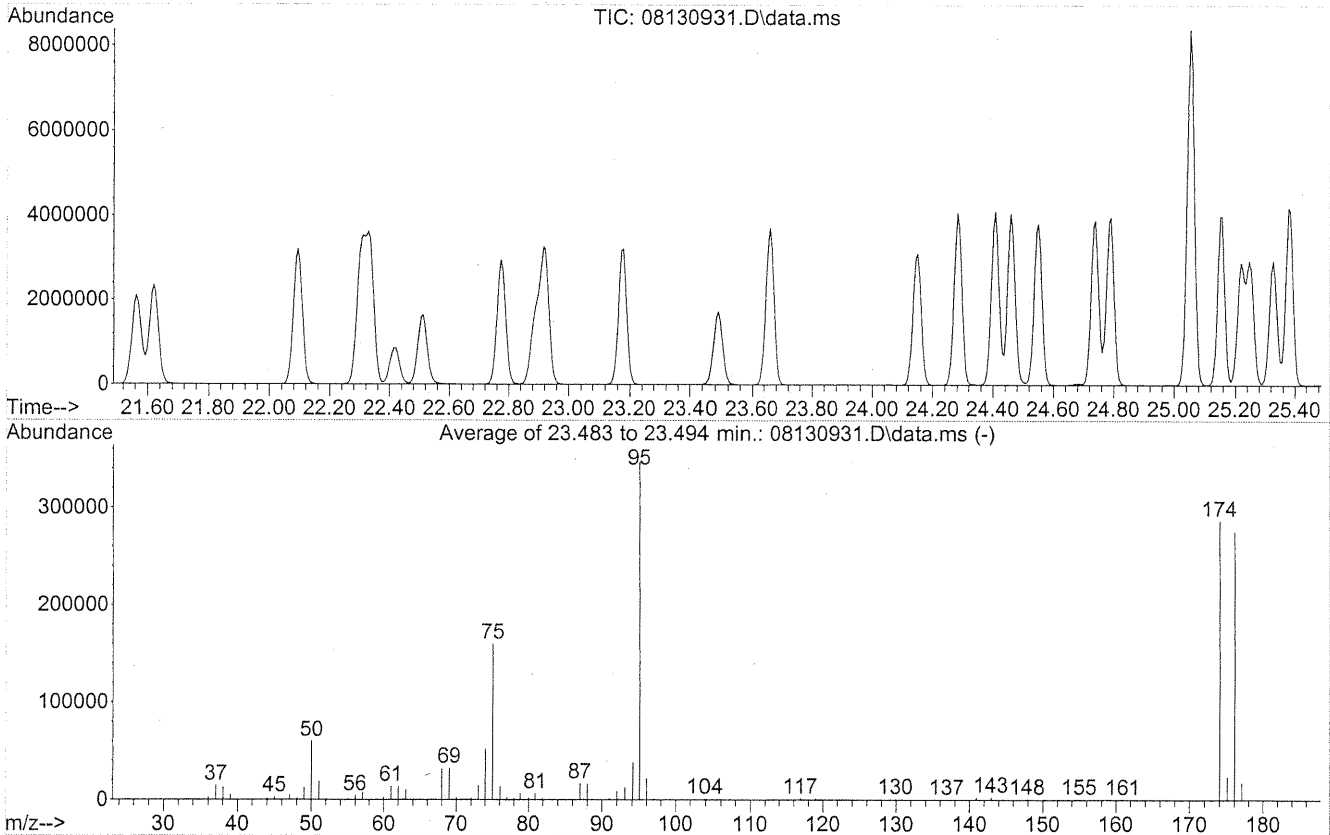
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	57432	PASS
75	95	30	66	45.6	154987	PASS
95	95	100	100	100.0	339563	PASS
96	95	5	9	6.4	21896	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.2	282475	PASS
175	174	4	9	8.1	22795	PASS
176	174	93	101	96.4	272171	PASS
177	176	5	9	6.4	17522	PASS

EM 8/14/09

Data Path : J:\MS09\Data\2009_08\13\
 Data File : 08130931.D
 Acq On : 14 Aug 2009 5:24
 Operator : EM
 Sample : 25ng TO-15 ICAL STD
 Misc : S20-08130905/S20-08100902
 ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS09\Methods\R9081309.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 14 07:39:36 2009



AutoFind: Scans 3484, 3485, 3486; Background Corrected with Scan 3475

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.2	59501	PASS
75	95	30	66	46.3	160192	PASS
95	95	100	100	100.0	346325	PASS
96	95	5	9	6.2	21643	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	82.8	286827	PASS
175	174	4	9	8.1	23144	PASS
176	174	93	101	96.0	275349	PASS
177	176	5	9	6.4	17485	PASS

EM 8/14/09

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment	
1	08/13/09 6:23	08130901.D	25ng TO-15 CCV STD	S20-07200901/S20-07240905	EM	1	Pass	
2	08/13/09 7:04	08130902.D	25ng TO-15 AC&F STD	S20-07200901/S20-07220902	EM	16	Pass	
3	08/13/09 8:54	08130903.D	TO-15 Method Blank (1000ml)	S20-07200901	EM	1	Pass as MB	
4	08/13/09 10:01	08130904.D	P0902767-001 (5ml)	██████████	EM	1	Case, File	
5	08/13/09 10:43	08130905.D	P0902767-002 (0.5ml)	██████████	EM	1	↓	
6	08/13/09 11:34	08130906.D	P0902780-001 (0.5ml)	██████████	EM	1	Case, File	
7	08/13/09 12:15	08130907.D	P0902678-013 (30ml)	██████████	EM	5		
8	08/13/09 12:57	08130908.D	25ng TO-15 LCS STD	S20-07200901/S20-08070903	EM	2	Pass, Acrylonitrile	
9	08/13/09 13:52	08130909.D	P0902780-002 (0.5ml)	██████████	EM	1		
10	08/13/09 14:33	08130910.D	P0902780-001 (1ml)	██████████	EM	1		
11	08/13/09 15:15	08130911.D	P0902780-001 dup (1ml)	██████████	EM	1	Pass as Lab Dup.	
12	08/13/09 16:15	08130912.D	P0902780-002 dil (0.1ml)	██████████	EM	1		
13	08/13/09 16:56	08130913.D	25ng std check	S20-08130905/S20-08070903	EM	2		
14	08/13/09 17:37	08130914.D	P0902678-013 dil (15ml)	██████████	EM	5		
15	08/13/09 18:19	08130915.D	P0902678-005 dil (100ml)	██████████	EM	9		
16	08/13/09 19:00	08130916.D	P0902678-011 dil (100ml)	██████████	EM	14		
17	08/13/09 19:41	08130917.D	P0902678-012 dil (100ml)	██████████	EM	15		
18	08/13/09 20:23	08130918.D	P0902678-014 (1000ml)	██████████	EM	6		
19	08/13/09 21:04	08130919.D	P0902678-014 dil (100ml)	██████████	EM	6		
20	08/13/09 21:46	08130920.D	P0902678-015 (1000ml)	██████████	EM	7		
21	08/13/09 22:28	08130921.D	P0902678-015 dil (100ml)	██████████	EM	7		
22	08/13/09 23:09	08130922.D	5ng std check	S20-08130905/S20-08100904	EM	1		
23	08/13/09 23:51	08130923.D	25ng std check	S20-08130905/S20-08100902	EM	1		
24	08/14/09 0:33	08130924.D	System Check		EM	4		
25	08/14/09 1:14	08130925.D	TO-15 BFB Standard (200ml)	S20-08130905	EM	1	Pass	
26	08/14/09 1:56	08130926.D	0.1ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8	ICAL R9081309.M	
27	08/14/09 2:38	08130927.D	0.2ng TO-15 ICAL STD	S20-08130905/S20-07240912	EM	8		
28	08/14/09 3:19	08130928.D	0.5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
29	08/14/09 4:01	08130929.D	1.0ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
30	08/14/09 4:43	08130930.D	5ng TO-15 ICAL STD	S20-08130905/S20-08100904	EM	1		
31	08/14/09 5:24	08130931.D	25ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
32	08/14/09 6:06	08130932.D	50ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
33	08/14/09 6:47	08130933.D	100ng TO-15 ICAL STD	S20-08130905/S20-08100902	EM	1		
34	08/14/09 7:29	08130934.D	25ng TO-15 ICV STD	S20-08130905/S20-08070903	EM	2		Pass
35	08/14/09 8:26	08130935.D	25ng TO-15 ICV STD	S20-08130905/S20-07270906	EM	10		Case, File Extra

ICAL R9081309.M: 0.2ng-100ng: 1-Butanol, n-Butyl Acetate, 4-methyl-2-pentanone
0.5ng-100 ng: Vinyl Acetate, 2-Butanone, Ethyl Acetate
Methyl Methacrylate, 2-Hexanone
0.1ng-50ng: TBA
0.1ng-100ng: Rest of compounds-

EM 8/17/09
ICAL used
as daily QC.

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
36	08/14/09 9:24	08130936.D	TO-15 Method Blank (1000ml)	S20-08130905	EM	1	Pass as MB
37	08/14/09 10:39	08130937.D	P0902735-001 (1000ml)	[REDACTED]	EM	6	
38	08/14/09 11:20	08130938.D	P0902727-001 (1000ml)	[REDACTED]	EM	5	
39	08/14/09 12:01	08130939.D	P0902727-001 dup (1000ml)	[REDACTED]	EM	5	Pass as Lab Dup.
40	08/14/09 12:43	08130940.D	25ng TO-15 LCS STD	S20-08130905/S20-08070903	EM	2	Pass
41	08/14/09 13:31	08130941.D	P0902735-002 (1000ml)	[REDACTED]	EM	7	
42	08/14/09 14:18	08130942.D	P0902720-008 (1000ml)	Environmental H & E 100679	EM	16	
43	08/14/09 14:59	08130943.D	P0902720-001 (200ml)	Environmental H & E 99934	EM	9	
44	08/14/09 15:40	08130944.D	P0902720-001 dil (50ml)	Environmental H & E 99934	EM	9	
45	08/14/09 16:22	08130945.D	P0902720-002 (1000ml)	Environmental H & E 99935	EM	10	
46	08/14/09 17:03	08130946.D	P0902720-003 (200ml)	Environmental H & E 99936	EM	11	
47	08/14/09 17:44	08130947.D	System Check		EM	4	
48	08/14/09 18:26	08130948.D	P0902720-003 dil (50ml)	Environmental H & E 99936	EM	11	
49	08/14/09 19:07	08130949.D	P0902720-004 (1000ml)	Environmental H & E 100675	EM	12	
50	08/14/09 19:48	08130950.D	P0902720-004 dil (100ml)	Environmental H & E 100675	EM	12	
51	08/14/09 20:30	08130951.D	P0902720-005 (1000ml)	Environmental H & E 100676	EM	13	
52	08/14/09 21:11	08130952.D	P0902720-005 dil (100ml)	Environmental H & E 100676	EM	13	
53	08/14/09 21:53	08130953.D	P0902720-006 (1000ml)	Environmental H & E 100677	EM	14	
54	08/14/09 22:34	08130954.D	P0902720-007 (1000ml)	Environmental H & E 100678	EM	15	
55	08/14/09 23:16	08130955.D	P0902720-007 dil (100ml)	Environmental H & E 100678	EM	15	
56	08/14/09 23:58	08130956.D	CAS CAN QC C3S 3604	AC01486 (1000ml)	EM	8	
57	08/15/09 0:39	08130957.D	System Check		EM	4	
58	08/15/09 1:22	08130958.D	Blank (200ml)	S20-08130905	EM	1	
59	08/15/09 7:03	08130959.D	Blank (200ml)	S20-08130905	EM	1	
60	08/15/09 7:41	08130960.D	System Check		EM	4	
61	08/15/09 8:23	08130961.D	Blank (200ml)	S20-08130905	EM	1	
62	08/16/09 7:03	08130962.D	Blank (200ml)	S20-08130905	EM	1	
63	08/16/09 7:41	08130963.D	System Check		EM	4	
64	08/16/09 8:23	08130964.D	Blank (200ml)	S20-08130905	EM	1	
65	08/17/09 5:03	08130965.D	Blank (200ml)	S20-08130905	EM	1	
66	08/17/09 5:41	08130966.D	System Check		EM	4	