

LABORATORY REPORT

September 30, 2009

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

RE: 16512

Dear Brian:

Enclosed are the results of the samples submitted to our laboratory on September 2, 2009. For your reference, these analyses have been assigned our service request number P0903081.

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 290 pages.

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

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

Respectfully submitted,

Columbia Analytical Services, Inc.



Kate Aguilera
Project Manager

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

CAS Project No: P0903081

CASE NARRATIVE

The samples were received intact under chain of custody on September 2, 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: P0903081

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Bottle Order #
P0903081-001.01	104764	6.0 L-Summa Canister Ambient	0.0	0.0	3.7				AC01350	14339		
P0903081-002.01	104765	6.0 L-Summa Canister Ambient		0.1	3.5				AC00705	14338		
P0903081-003.01	104766	6.0 L-Summa Canister Ambient	0.0	0.0	3.6				AC01563	14339		
P0903081-004.01	104767	6.0 L-Summa Canister Ambient		0.2	3.6				AC00765	14339		
P0903081-005.01	104768	6.0 L-Summa Canister Ambient		0.3	3.5				AC01600	14339		

Miscellaneous Items - received

- FC00689
- AVG00868
- FC00312
- AVG00971
- AVG01087
- FC00660
- FC00575
- FC00612
- AVG00612
- AVG00553

PO 903081

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

TO: Columbia

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 # 76512

The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA []

Table with 4 columns: SAMPLE ID, SAMPLE TYPE, ANALYTICAL METHOD/NUMBER, OTHER: Time/Date/Vol. Handwritten entries include sample IDs 104764-104768, sample type 'Summa', method 'EPA TO-15 - Full List', and date '8/31/09'.

Special instructions:

- Standard turn around time [x] Rush by [] Other [] Fax results 781-247-4305 [] RETURN SAMPLES [] Electronic transfer - datacoordinator@ehinc.com [] Additional report recipient M.Fragala@ehinc.com [x]

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

Relinquished by: [Signature] of Environmental Health & Engineering, Inc. Date: 9/1/09 Received by: [Signature] of (company name) CAS Date: 9/02/09 0940

**Columbia Analytical Services, Inc.
Sample Acceptance Check Form**

Client: Environmental Health & Engineering, Inc.

Work order: P0903081

Project: Project # 16512 / 16512

Sample(s) received on: 9/2/2009

Date opened: 9/2/2009

by: SSTAPLES

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

- | | | Yes | No | N/A |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1 | Were sample containers properly marked with client sample ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | Container(s) supplied by CAS? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | Did sample containers arrive in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | Was a chain-of-custody provided? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | Was the chain-of-custody properly completed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6 | Did sample container labels and/or tags agree with custody papers? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | Was sample volume received adequate for analysis? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | Are samples within specified holding times? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | Was proper temperature (thermal preservation) of cooler at receipt adhered to? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | Cooler Temperature _____ °C Blank Temperature _____ °C | | | |
| 10 | Was a trip blank received? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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
P0903081-001.01	6.0 L Ambient Can					
P0903081-002.01	6.0 L Ambient Can					
P0903081-003.01	6.0 L Ambient Can					
P0903081-004.01	6.0 L Ambient Can					
P0903081-005.01	6.0 L Ambient Can					

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

Chain of Custody is missing time collected _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12); Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12); RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104764
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01350

CAS Project ID: P0903081
CAS Sample ID: P0903081-001

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	0.98	0.63	0.57	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.63	0.51	0.13	
74-87-3	Chloromethane	0.49	0.13	0.24	0.061	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.63	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.13	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.13	ND	0.057	
74-83-9	Bromomethane	ND	0.13	ND	0.032	
75-00-3	Chloroethane	ND	0.13	ND	0.047	
64-17-5	Ethanol	17	6.3	9.1	3.3	
75-05-8	Acetonitrile	58	0.63	34	0.37	
107-02-8	Acrolein	2.3	0.63	1.0	0.27	
67-64-1	Acetone	46	6.3	19	2.6	
75-69-4	Trichlorofluoromethane	1.3	0.13	0.23	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.3	0.63	1.8	0.25	
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	0.61	0.13	0.079	0.016	
75-15-0	Carbon Disulfide	ND	0.63	ND	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.13	ND	0.032	
75-34-3	1,1-Dichloroethane	ND	0.13	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.13	ND	0.035	
108-05-4	Vinyl Acetate	ND	6.3	ND	1.8	
78-93-3	2-Butanone (MEK)	3.4	0.63	1.2	0.21	

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104764
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01350

CAS Project ID: P0903081
 CAS Sample ID: P0903081-001

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.25

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.13	ND	0.032	
141-78-6	Ethyl Acetate	1.0	0.63	0.28	0.17	
110-54-3	n-Hexane	0.84	0.63	0.24	0.18	
67-66-3	Chloroform	0.13	0.13	0.027	0.026	
109-99-9	Tetrahydrofuran (THF)	1.2	0.63	0.41	0.21	
107-06-2	1,2-Dichloroethane	ND	0.13	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.13	ND	0.023	
71-43-2	Benzene	0.63	0.13	0.20	0.039	
56-23-5	Carbon Tetrachloride	0.50	0.13	0.080	0.020	
110-82-7	Cyclohexane	ND	0.63	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.13	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.13	ND	0.019	
79-01-6	Trichloroethene	ND	0.13	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.63	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.63	ND	0.15	
142-82-5	n-Heptane	0.65	0.63	0.16	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.63	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.63	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.63	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.13	ND	0.023	
108-88-3	Toluene	2.8	0.63	0.73	0.17	
591-78-6	2-Hexanone	0.81	0.63	0.20	0.15	
124-48-1	Dibromochloromethane	ND	0.13	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.13	ND	0.016	
123-86-4	n-Butyl Acetate	1.5	0.63	0.32	0.13	

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104764
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01350

CAS Project ID: P0903081
CAS Sample ID: P0903081-001

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.25

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.69	0.63	0.15	0.13	
127-18-4	Tetrachloroethene	ND	0.13	ND	0.018	
108-90-7	Chlorobenzene	ND	0.13	ND	0.027	
100-41-4	Ethylbenzene	ND	0.63	ND	0.14	
179601-23-1	m,p-Xylenes	1.5	0.63	0.34	0.14	
75-25-2	Bromoform	ND	0.63	ND	0.060	
100-42-5	Styrene	1.5	0.63	0.36	0.15	
95-47-6	o-Xylene	ND	0.63	ND	0.14	
111-84-2	n-Nonane	1.8	0.63	0.34	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	28	0.63	5.0	0.11	
103-65-1	n-Propylbenzene	ND	0.63	ND	0.13	
622-96-8	4-Ethyltoluene	0.85	0.63	0.17	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.5	0.63	0.30	0.13	
95-63-6	1,2,4-Trimethylbenzene	5.2	0.63	1.1	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	2.9	0.63	0.53	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	0.084	
91-20-3	Naphthalene	2.9	0.63	0.56	0.12	
87-68-3	Hexachlorobutadiene	ND	0.63	ND	0.059	

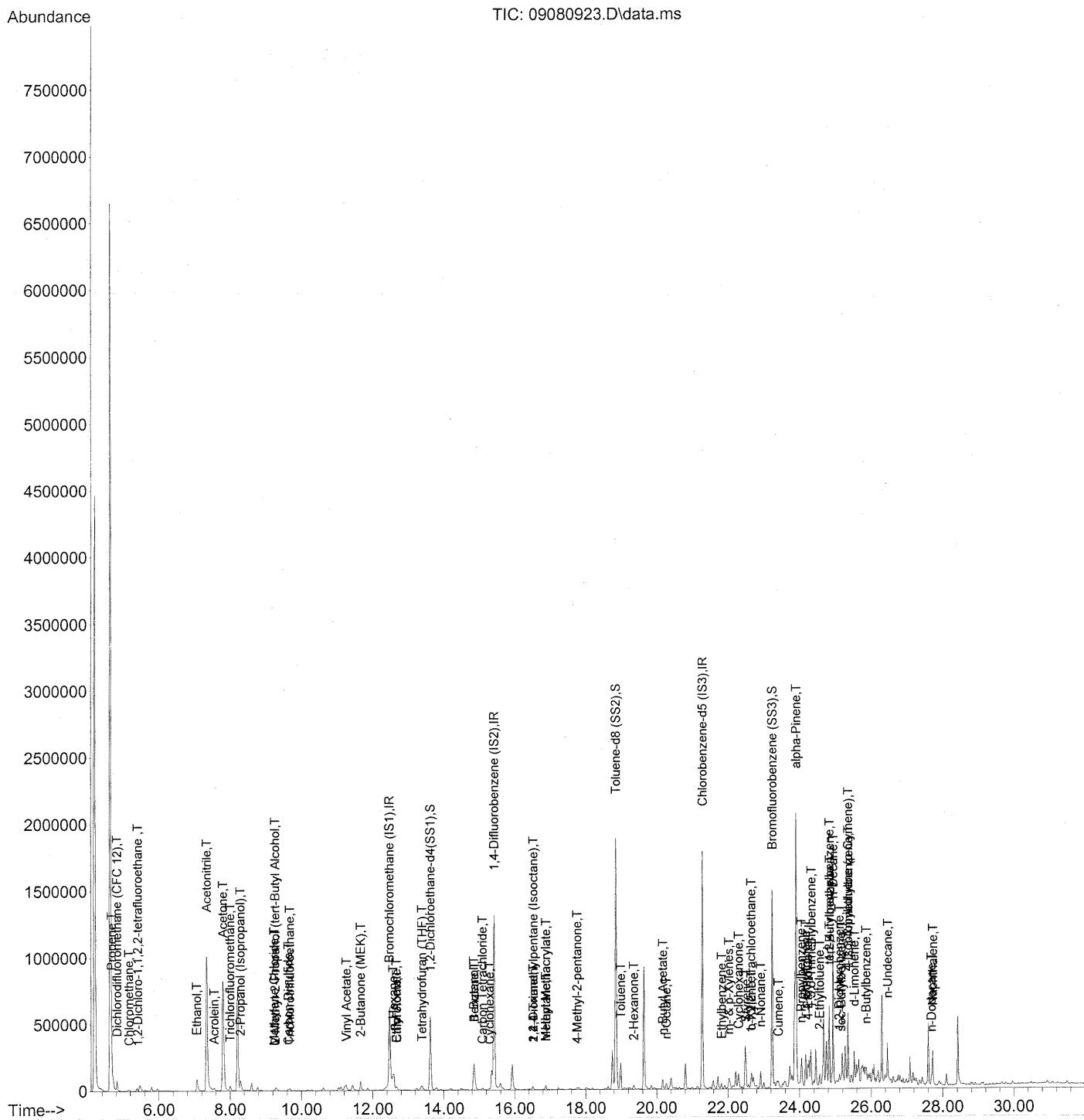
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: fer Date: 9/16/09

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 15 10:55:34 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
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 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

11/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	292839	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1491011	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	734319	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	565513	24.369	ng	-0.03
Spiked Amount	25.000			Recovery =		97.48%
57) Toluene-d8 (SS2)	18.84	98	1626206	24.780	ng	-0.02
Spiked Amount	25.000			Recovery =		99.12%
73) Bromofluorobenzene (SS3)	23.23	174	492312	26.066	ng	0.00
Spiked Amount	25.000			Recovery =		104.28%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	16608m	0.784	ng	
3) Dichlorodifluoromethan...	4.82	85	74284	2.003	ng	99
4) Chloromethane	5.16	50	9845	0.395	ng	94
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1236	0.081	ng	# 56
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.88	54	197	N.D.		
8) Bromomethane	6.37	94	176	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	180189	13.718	ng	96
11) Acetonitrile	7.34	41	1680807	46.070	ng	99
12) Acrolein	7.55	56	18735	1.868	ng	96
13) Acetone	7.80	58	495212	36.456	ng	93
14) Trichlorofluoromethane	8.00	101	34515	1.056	ng	99
15) 2-Propanol (Isopropanol)	8.29	45	156700	3.470	ng	94
16) Acrylonitrile	8.56	53	473	N.D.		
17) 1,1-Dichloroethene	9.01	96	91	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	11438	0.253	ng	# 1
19) Methylene Chloride	9.24	84	2804	0.163	ng	85
20) 3-Chloro-1-propene (Al...	9.42	41	117	N.D.		
21) Trichlorotrifluoroethane	9.67	151	6296	0.486	ng	86
22) Carbon Disulfide	9.63	76	29921	0.488	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.18	73	105	N.D.		
26) Vinyl Acetate	11.26	86	5396	1.585	ng	# 15
27) 2-Butanone (MEK)	11.66	72	30228	2.755	ng	100
28) cis-1,2-Dichloroethene	12.36	61	94	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.66	61	4763	0.808	ng	94
31) n-Hexane	12.57	57	19632	0.668	ng	99

11

Data Path : J:\MS13\DATA\2009_09\08\
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	3075	0.106 ng		88
34) Tetrahydrofuran (THF)	13.38	72	11388	0.957 ng	#	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.77	62	89	N.D.		
38) 1,1,1-Trichloroethane	14.17	97	591	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.84	56	186722	10.061 ng	#	40
41) Benzene	14.86	78	35356	0.504 ng		99
42) Carbon Tetrachloride	15.09	117	9466	0.402 ng		99
43) Cyclohexane	15.28	84	6459	0.250 ng	#	72
44) tert-Amyl Methyl Ether	15.99	73	114	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.38	83	313	N.D.		
47) Trichloroethene	16.43	130	186	N.D.		
48) 1,4-Dioxane	16.52	88	710	0.053 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	25983	0.326 ng		83
50) Methyl Methacrylate	16.87	100	2579	0.397 ng	#	1
51) n-Heptane	16.88	71	9405	0.518 ng		95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	3550	0.222 ng		95
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.56	97	581	N.D.		
58) Toluene	18.98	91	156453	2.213 ng		100
59) 2-Hexanone	19.35	43	28061	0.650 ng		95
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	60437	1.220 ng		94
63) n-Octane	20.26	57	9032	0.555 ng		96
64) Tetrachloroethene	20.47	166	290	N.D.		
65) Chlorobenzene	21.34	112	605	N.D.		
66) Ethylbenzene	21.82	91	33397	0.413 ng		100
67) m- & p-Xylenes	22.02	91	75192	1.168 ng		98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	58005	1.224 ng		96
70) o-Xylene	22.65	91	31697	0.490 ng		100
71) n-Nonane	22.91	43	55945	1.440 ng		98
72) 1,1,2,2-Tetrachloroethane	22.64	83	2253	0.076 ng	#	19
74) Cumene	23.41	105	12681	0.155 ng		100
75) alpha-Pinene	23.90	93	948671	22.321 ng		88
76) n-Propylbenzene	24.04	91	49939	0.480 ng	#	69
77) 3-Ethyltoluene	24.17	105	107757	1.375 ng		99
78) 4-Ethyltoluene	24.22	105	52758	0.682 ng		98
79) 1,3,5-Trimethylbenzene	24.31	105	76047	1.181 ng		100

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 15 10:55:34 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

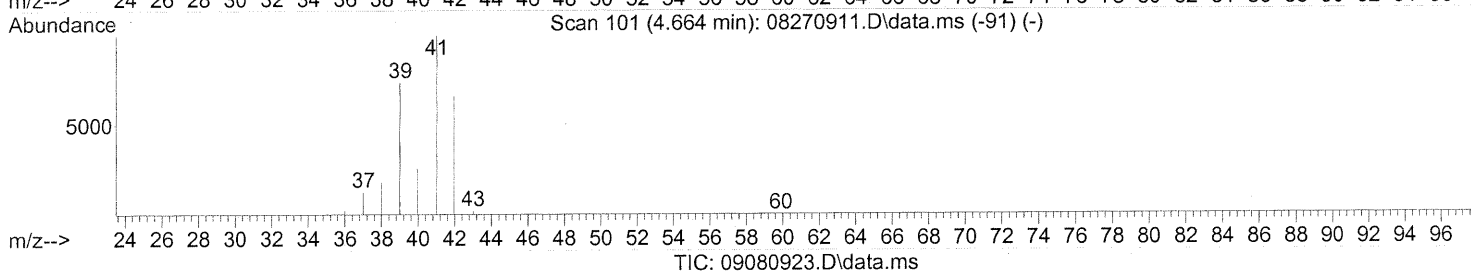
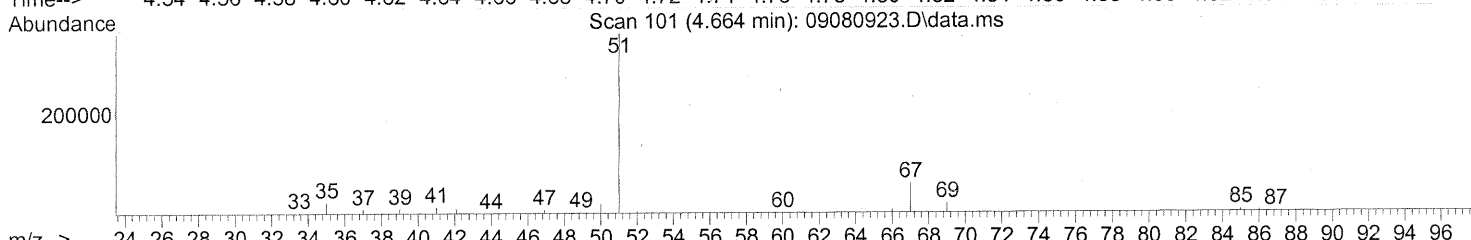
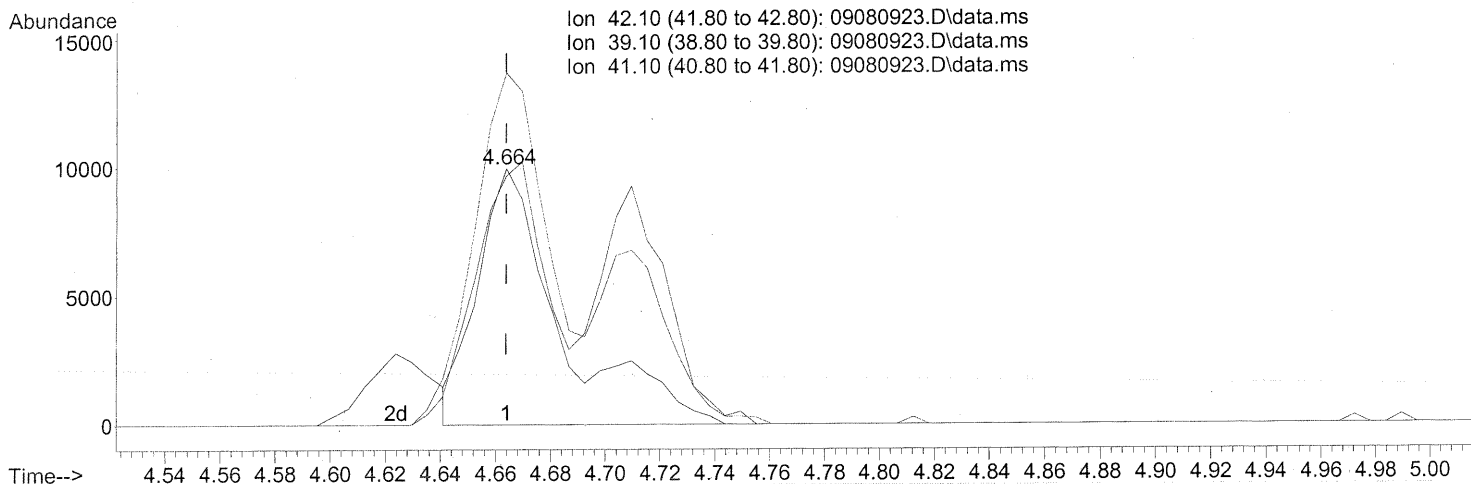
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	660	N.D.		
81) 2-Ethyltoluene	24.55	105	55016	0.684	ng	99
82) 1,2,4-Trimethylbenzene	24.82	105	271403	4.129	ng	91
83) n-Decane	24.93	57	383617	9.776	ng	96
84) Benzyl Chloride	25.04	91	516	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	1697	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	1697	N.D.		
87) sec-Butylbenzene	25.16	105	28849	0.321	ng	85
88) 4-Isopropyltoluene (p-...	25.35	119	65237	0.806	ng	90
89) 1,2,3-Trimethylbenzene	25.35	105	101665	1.476	ng	93
90) 1,2-Dichlorobenzene	25.10	146	1697	0.051	ng	86
91) d-Limonene	25.53	68	61522	2.345	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.46	157	100	N.D.		
93) n-Undecane	26.46	57	103558	2.542	ng	85
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.72	128	212788	2.343	ng	99
96) n-Dodecane	27.69	57	19536	0.421	ng	89
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	64234	2.357	ng	92
99) tert-Butylbenzene	24.83	119	33761	0.530	ng #	56
100) n-Butylbenzene	25.86	91	40810	0.558	ng #	58

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(2) Propene (T)

4.664min (+0.000) 0.98ng

response 20827

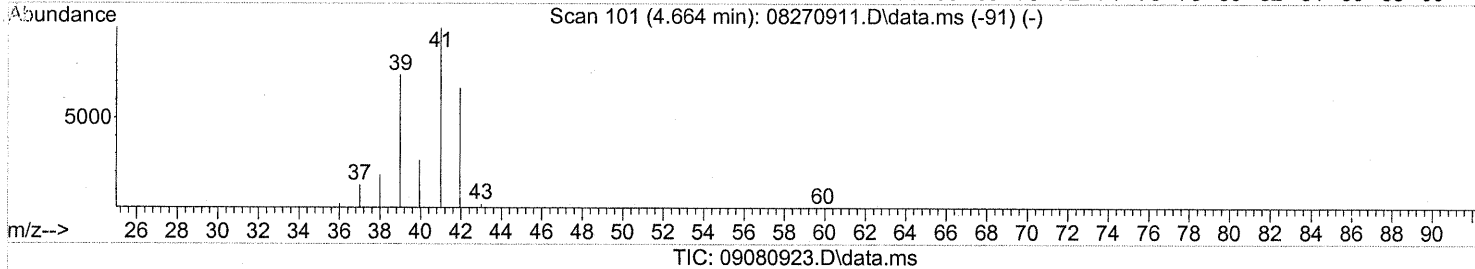
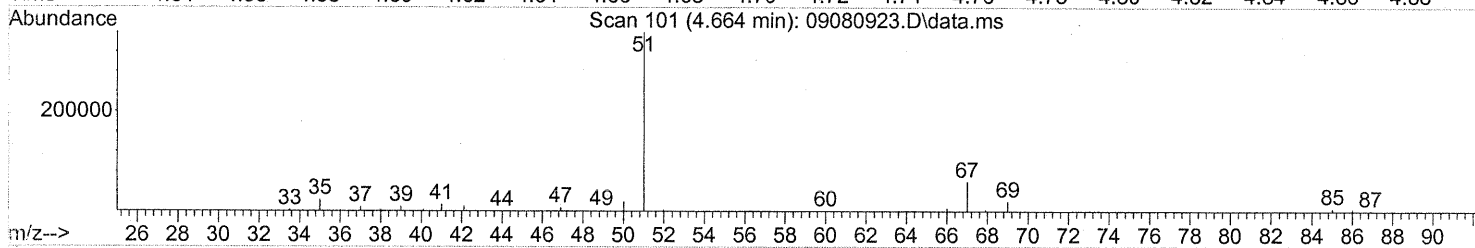
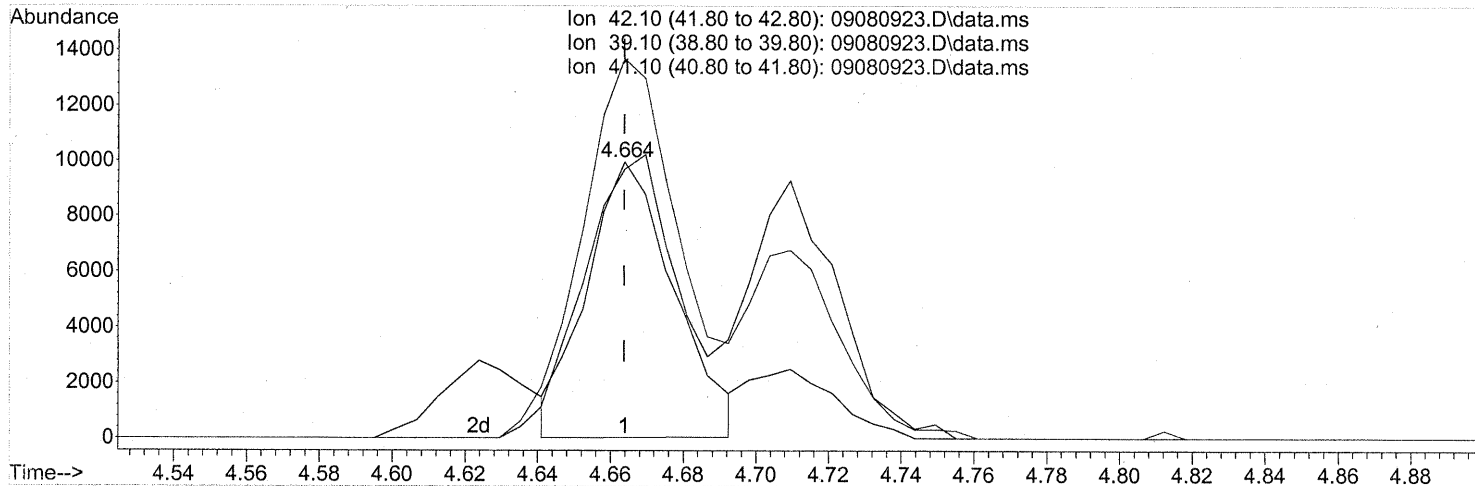
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	87.29#
41.10	149.80	123.18#
0.00	0.00	0.00

BCI SH

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 11 16:40:11 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(2) Propene (T)
 4.664min (+0.000) 0.78ng m
 response 16608

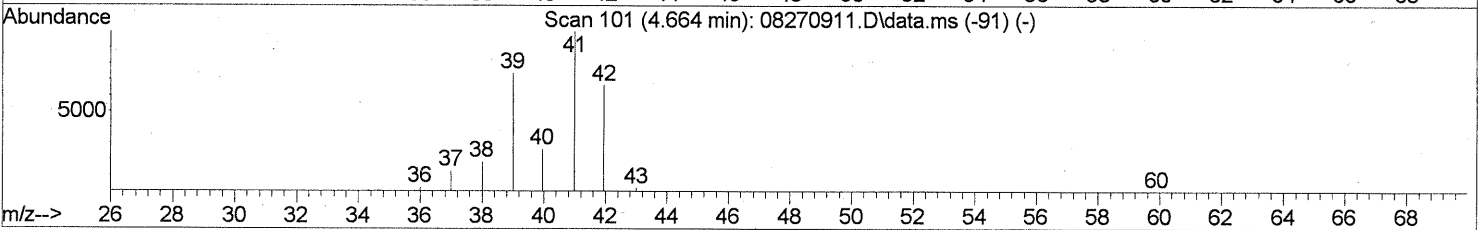
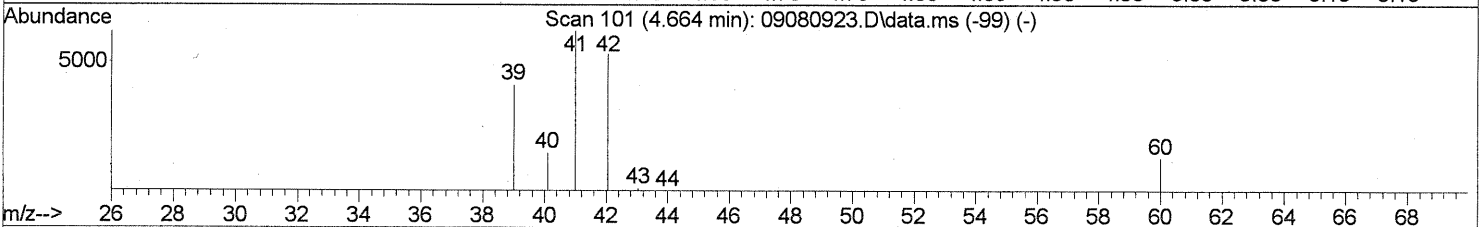
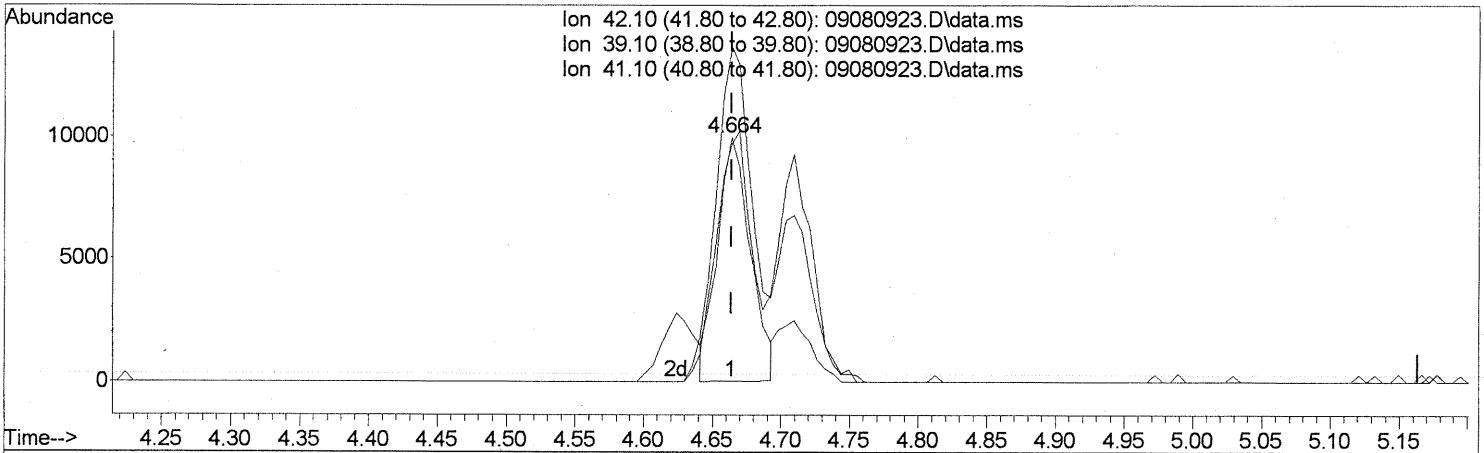
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	109.47
41.10	149.80	154.47
0.00	0.00	0.00

AF 09/15/09
 SH → IC
 09/15/09
 before substa.
 09/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 15 10:55:34 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080923.D\data.ms

(2) Propene (T)
 4.664min (+0.000) 0.78ng m
 response 16608

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	109.47
41.10	149.80	154.47
0.00	0.00	0.00

SHIBE -> IC

m 9/15/09

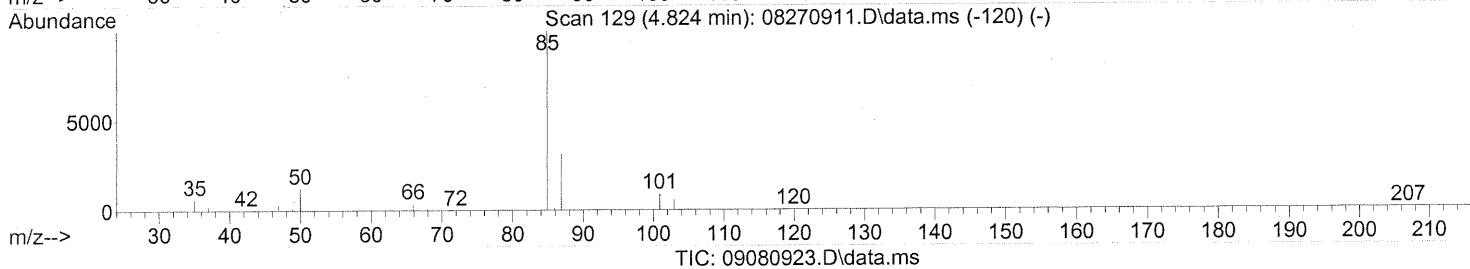
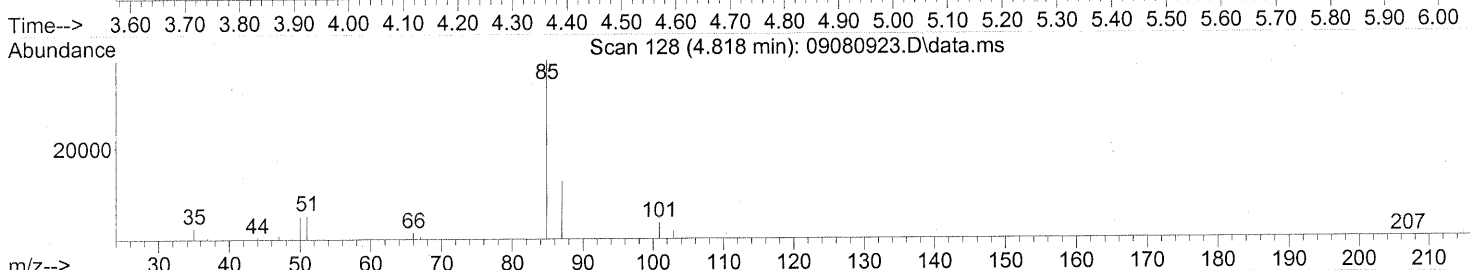
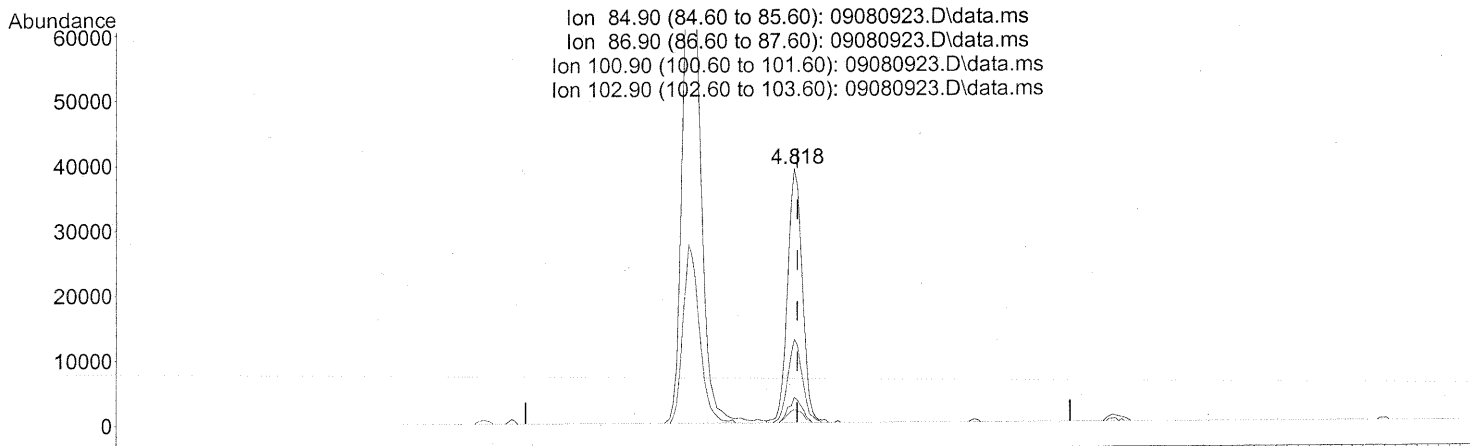
After subdn.

m 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.006) 2.00ng

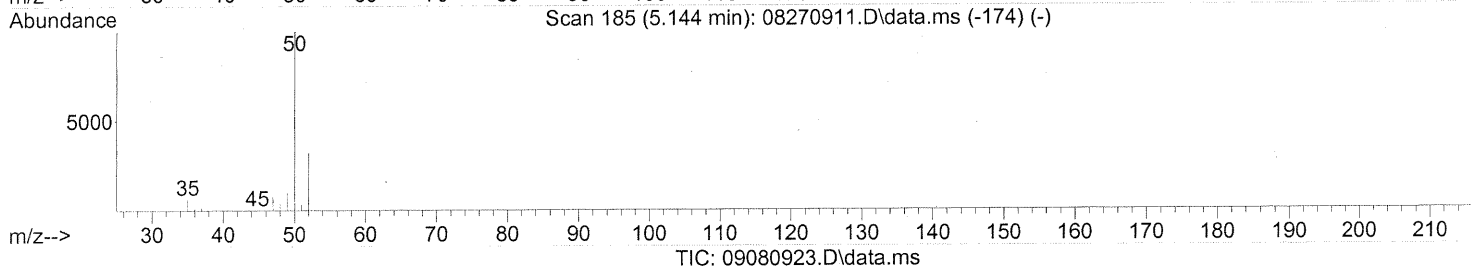
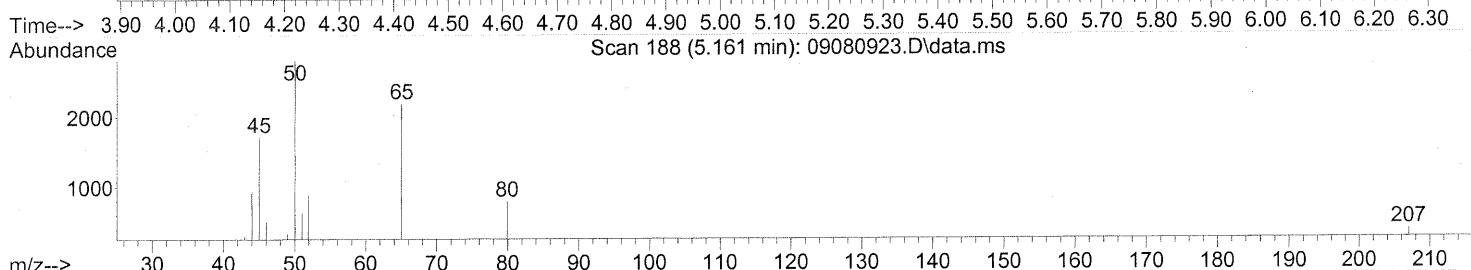
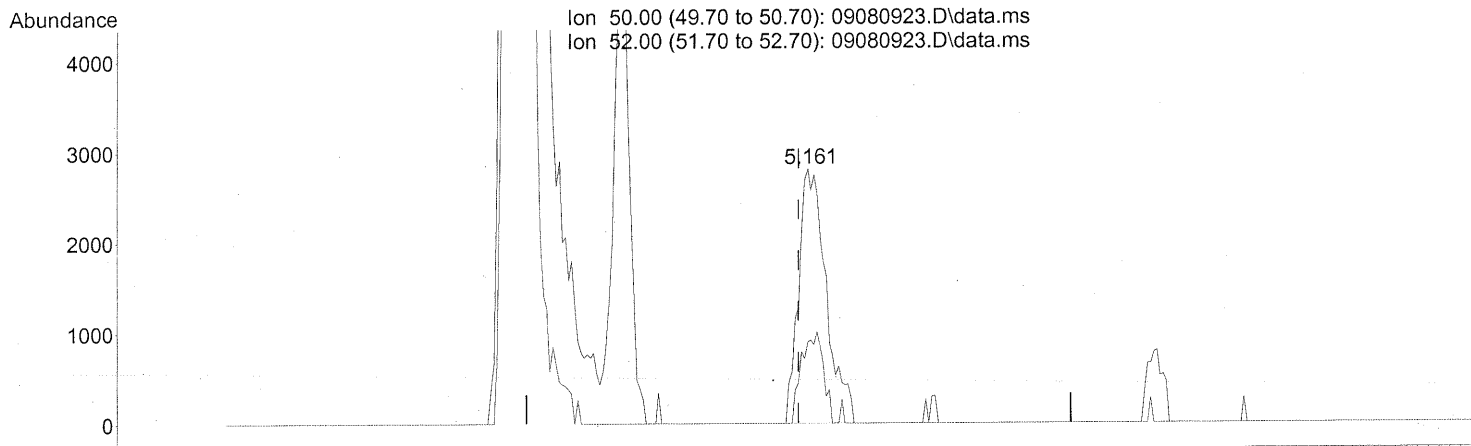
response 74284

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.30
100.90	8.80	9.15
102.90	5.60	5.30

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



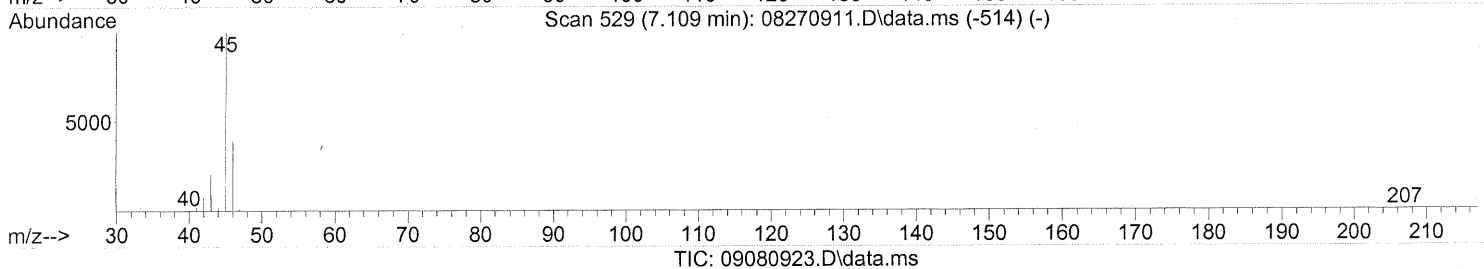
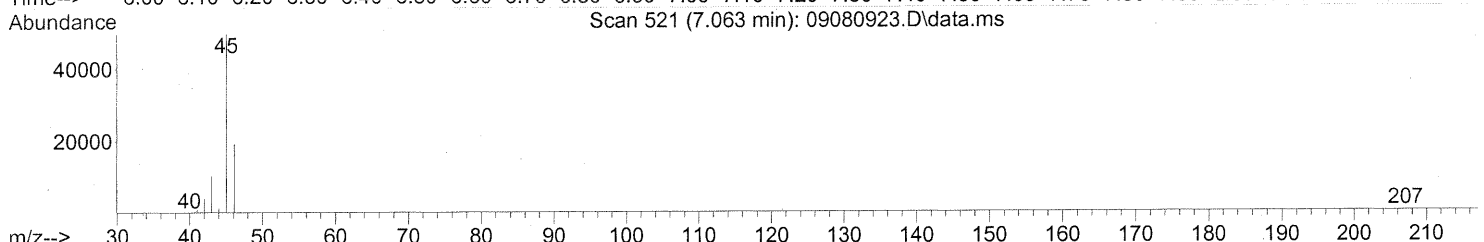
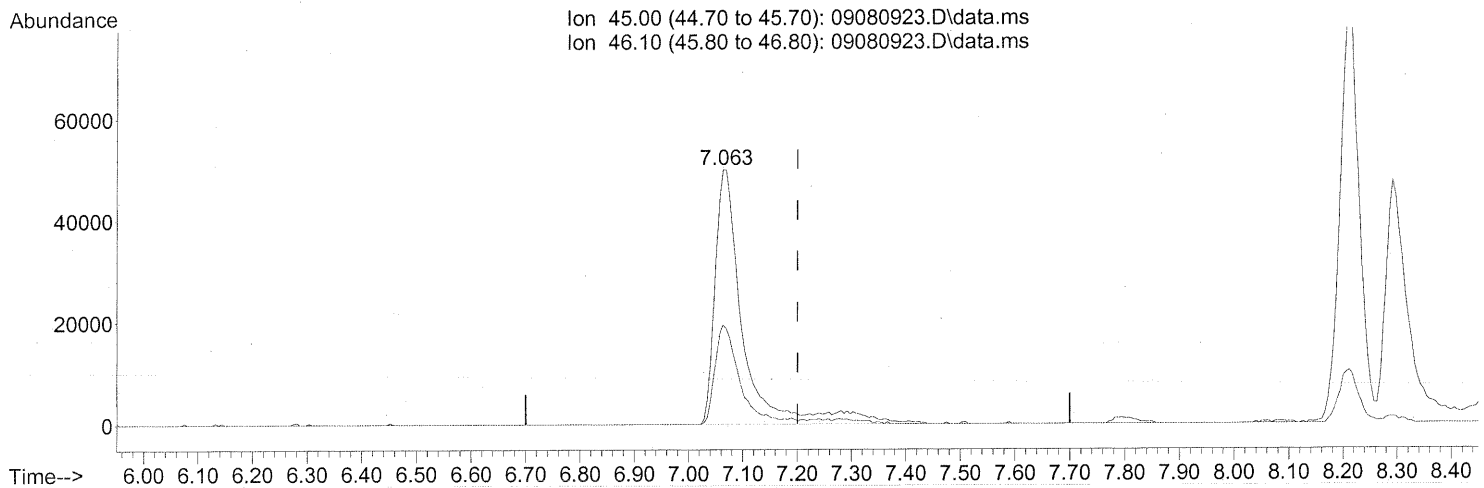
(4) Chloromethane (T)
 5.161min (+0.017) 0.39ng
 response 9845

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	28.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(10) Ethanol (T)

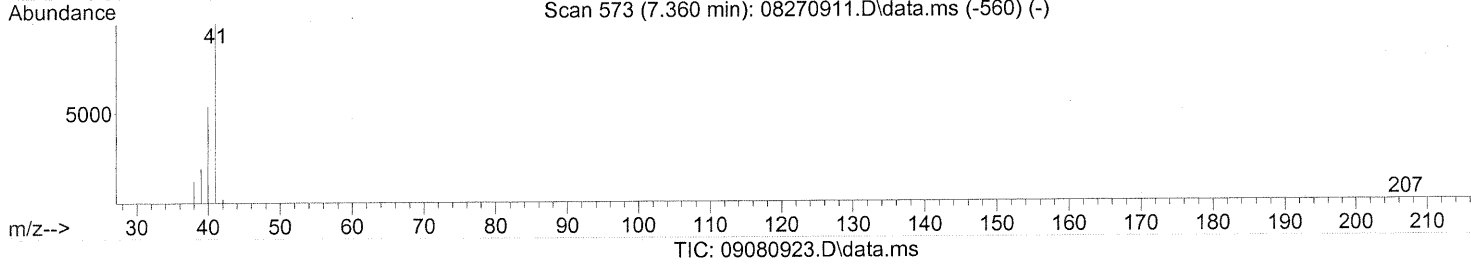
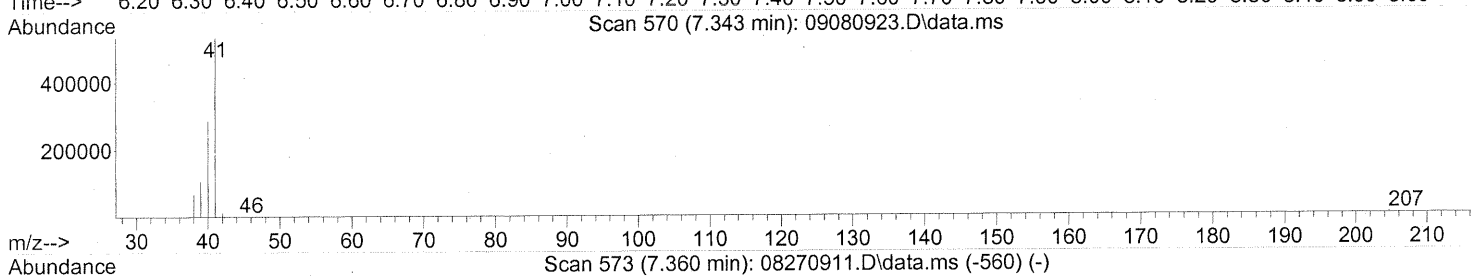
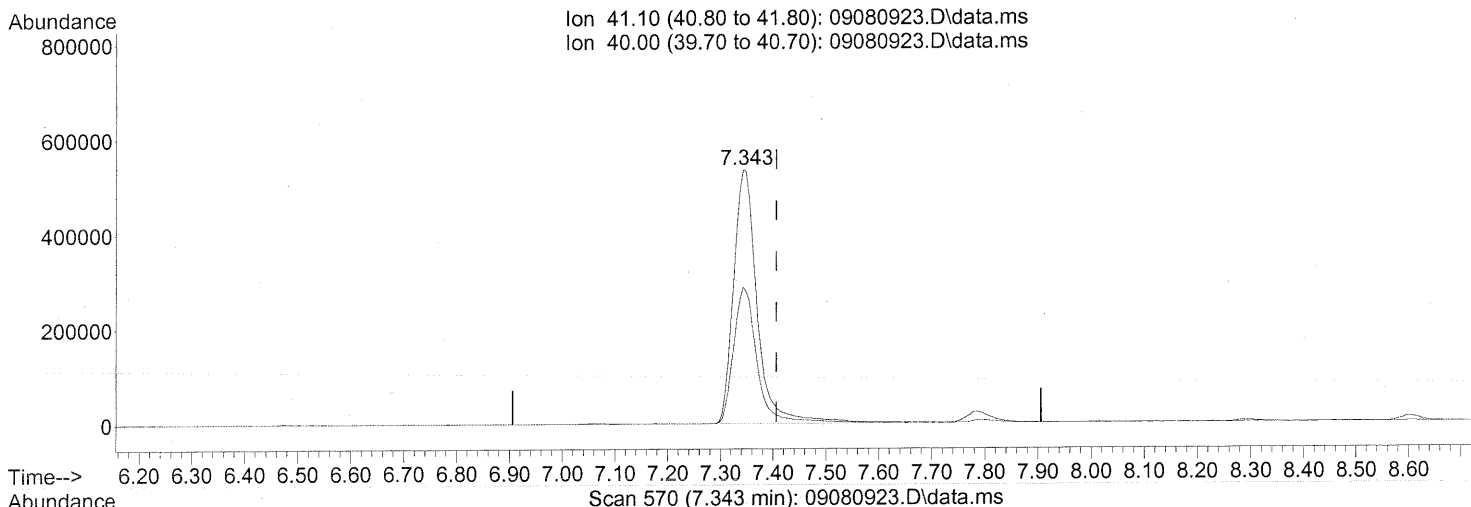
7.063min (-0.137) 13.72ng
 response 180189

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	36.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(11) Acetonitrile (T)

7.343min (-0.063) 46.07ng

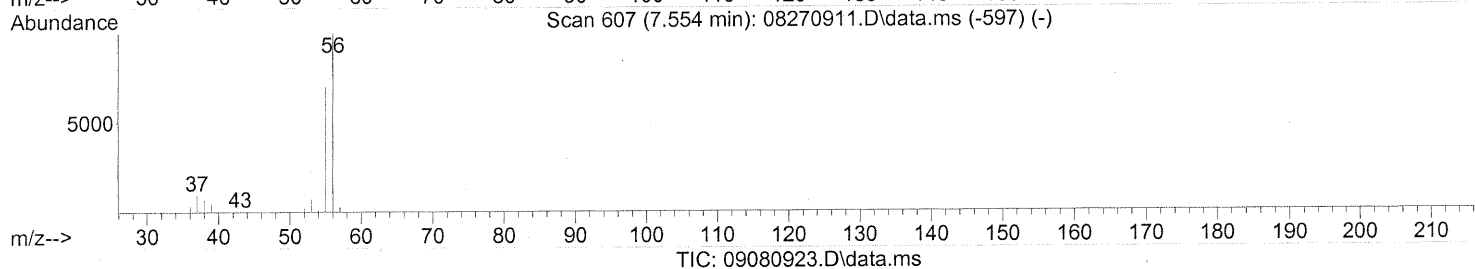
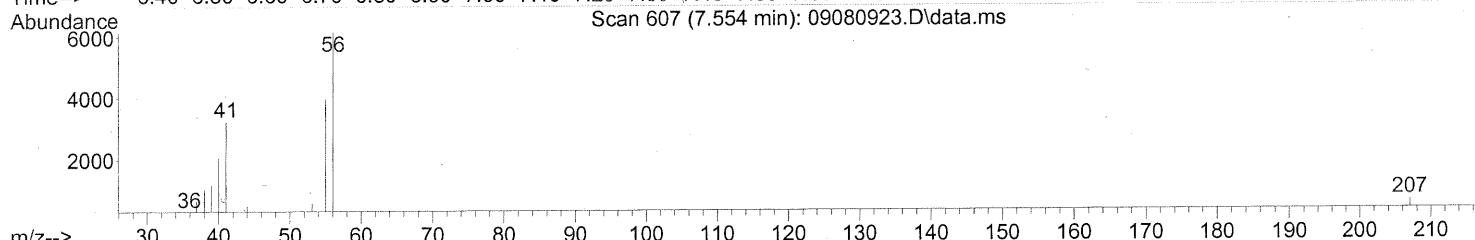
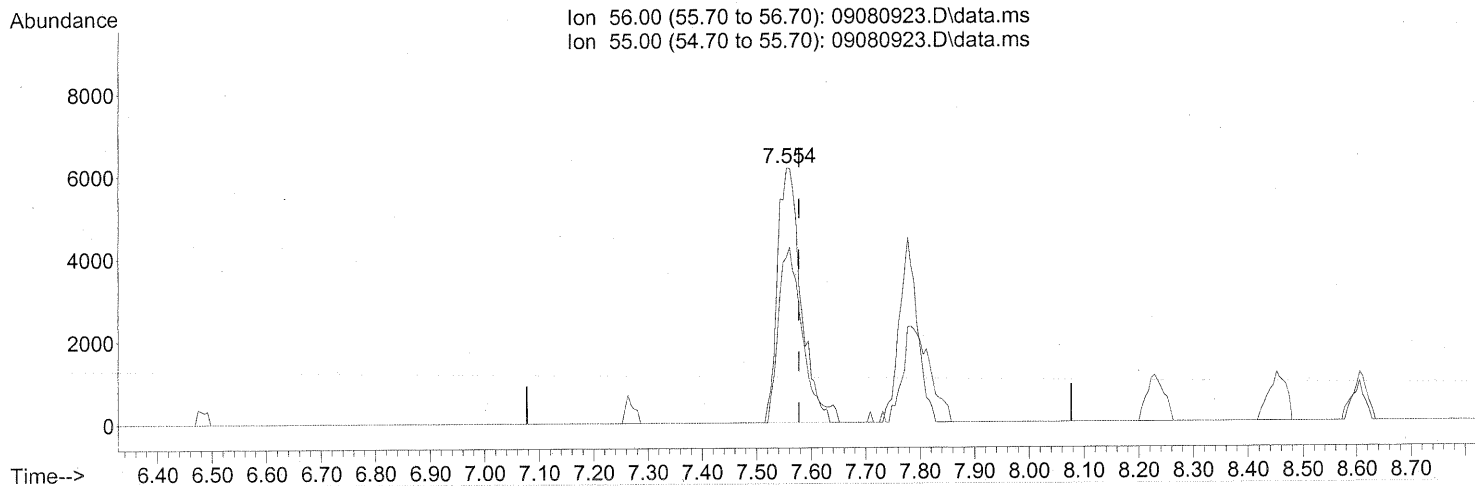
response 1680807

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(12) Acrolein (T)

7.554min (-0.023) 1.87ng

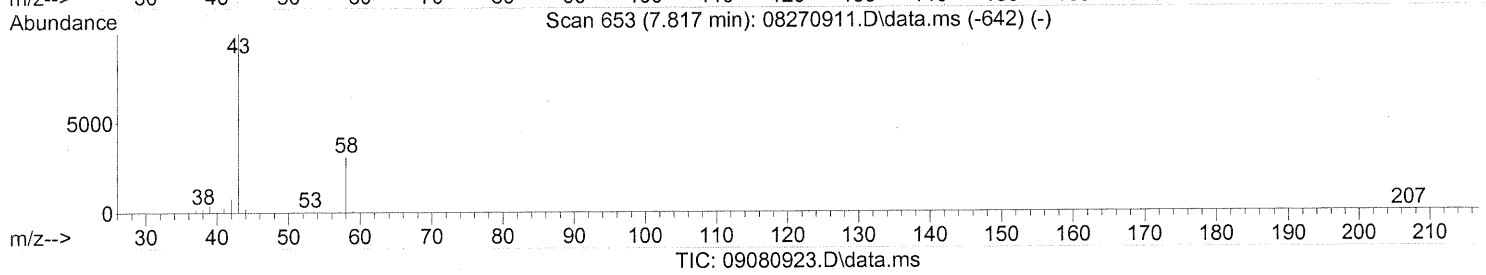
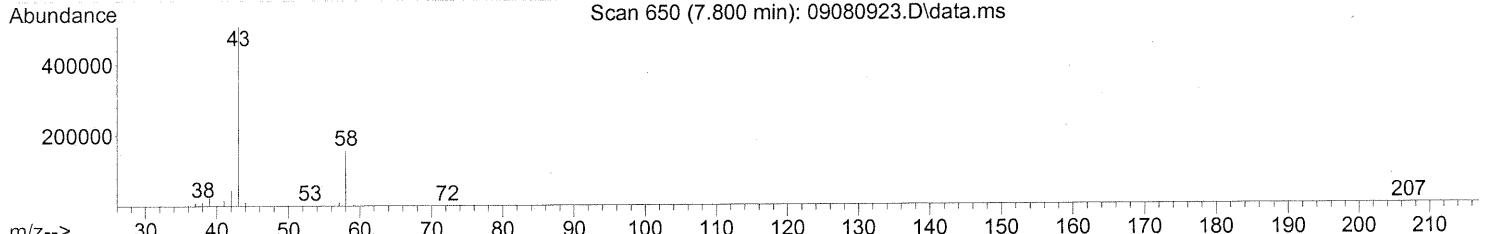
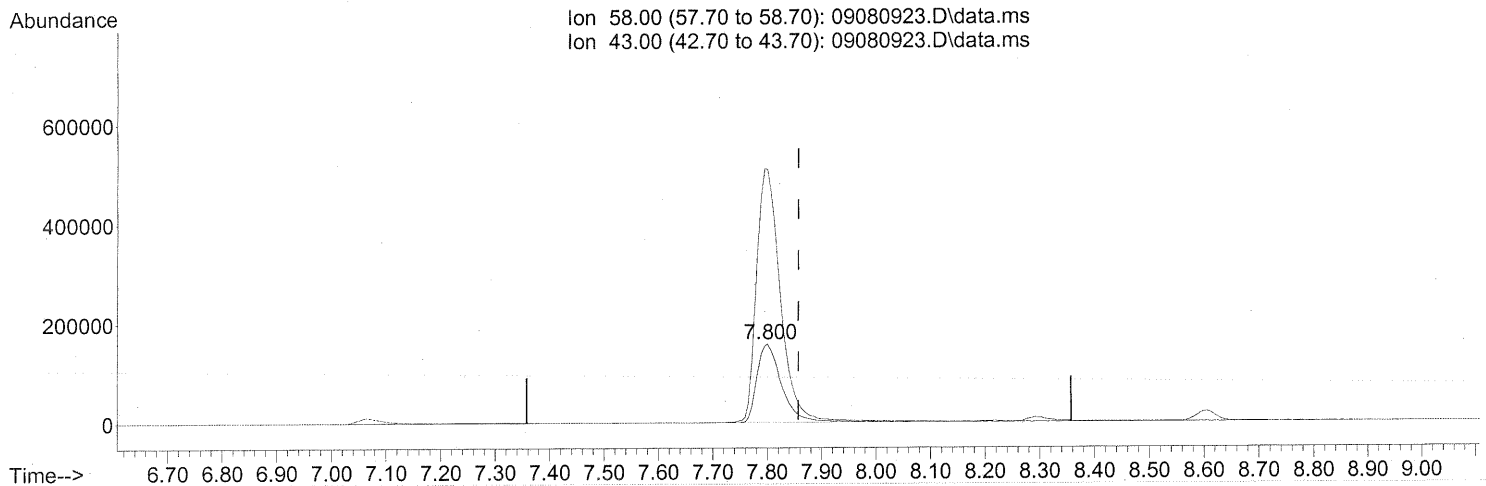
response 18735

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	67.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(13) Acetone (T)

7.800min (-0.057) 36.46ng

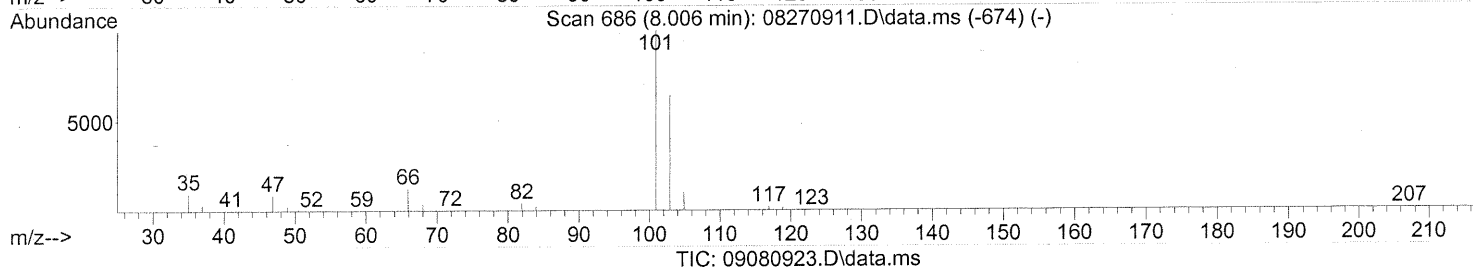
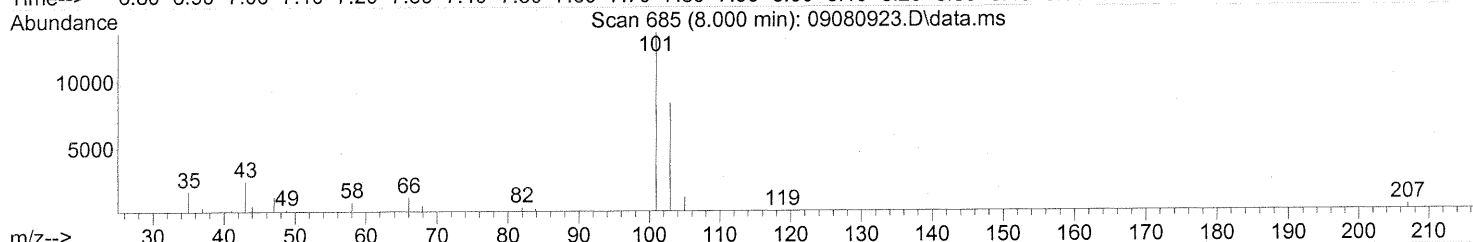
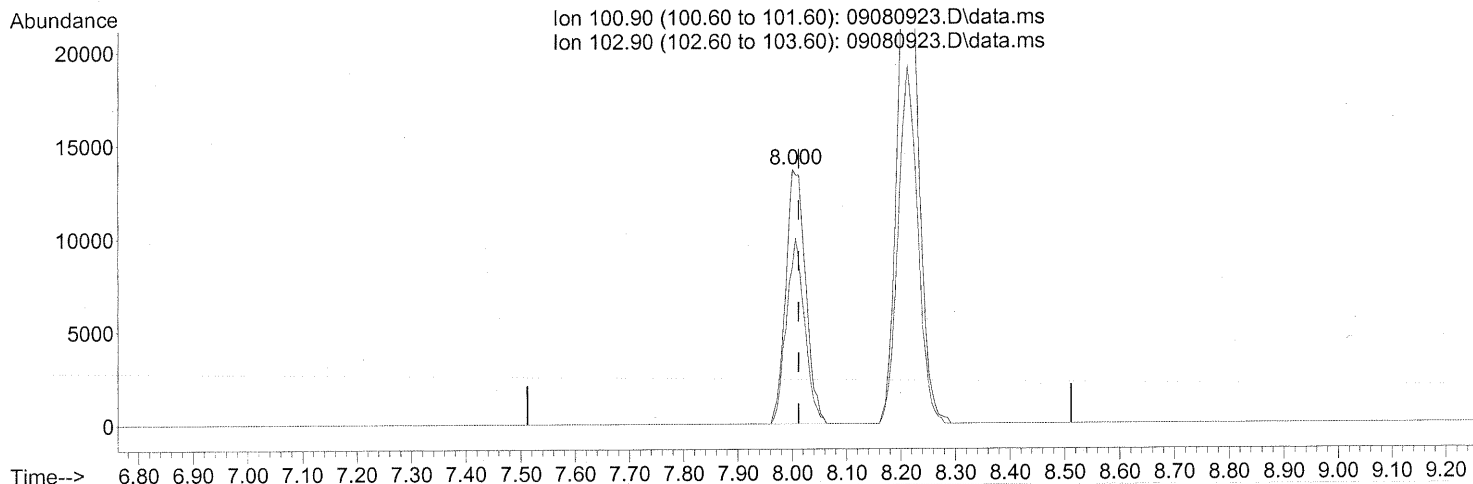
response 495212

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	316.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.000min (-0.011) 1.06ng

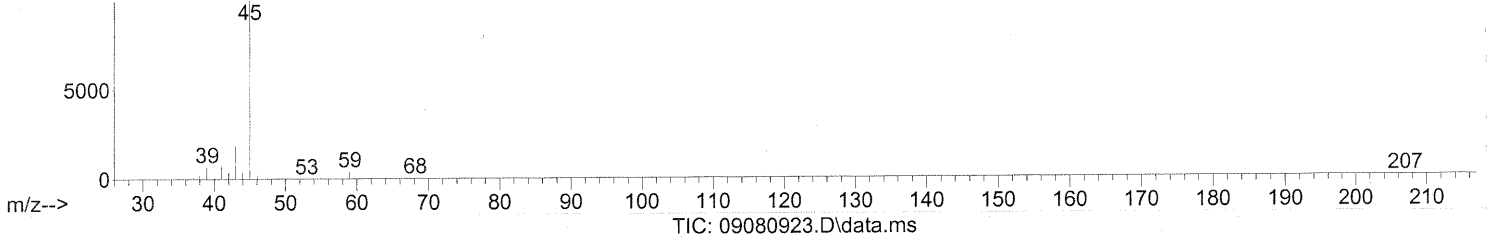
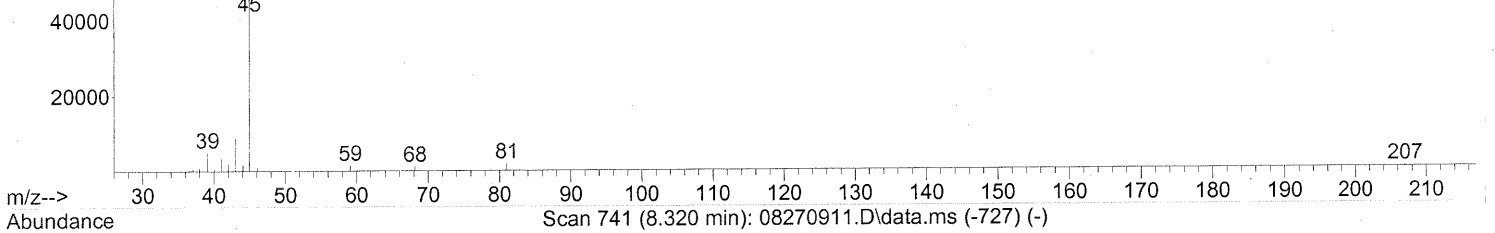
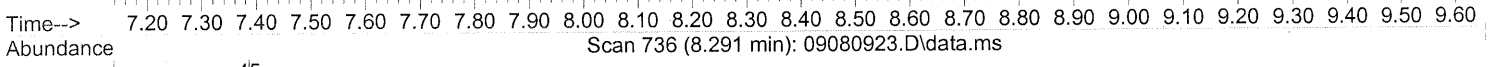
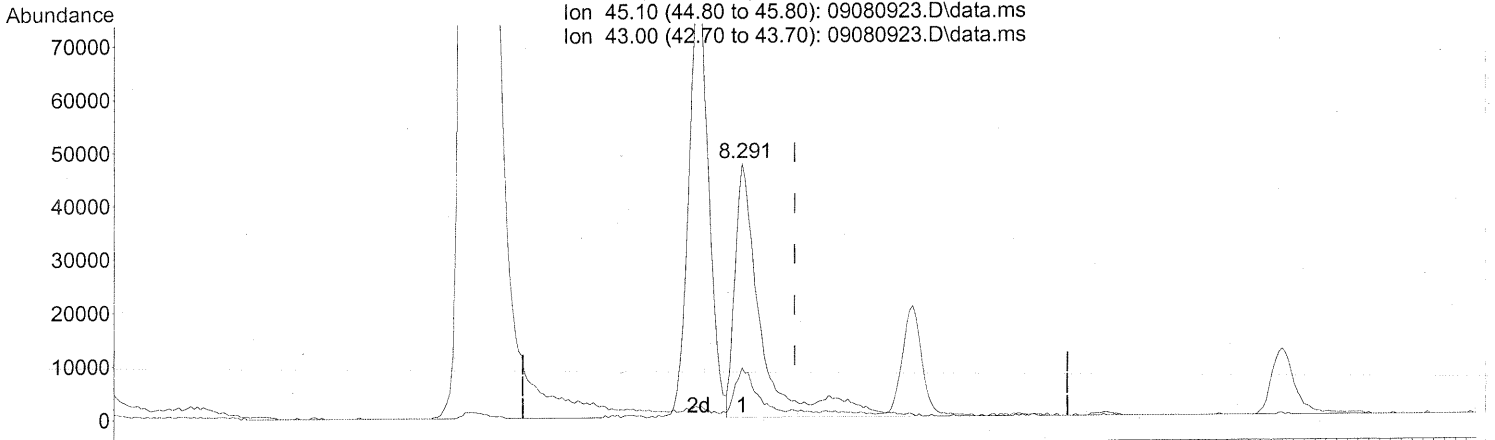
response 34515

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	67.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



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

8.291min (-0.097) 3.47ng

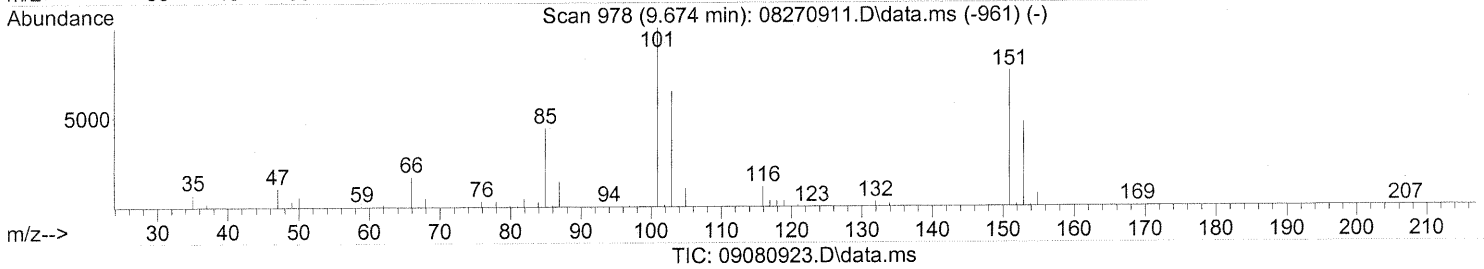
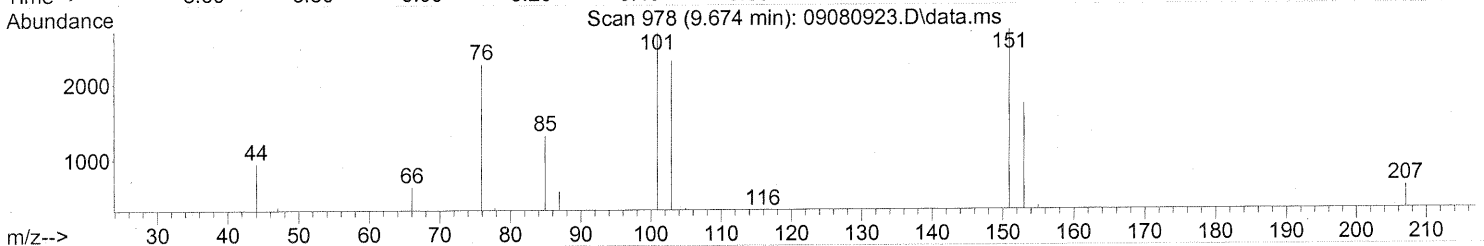
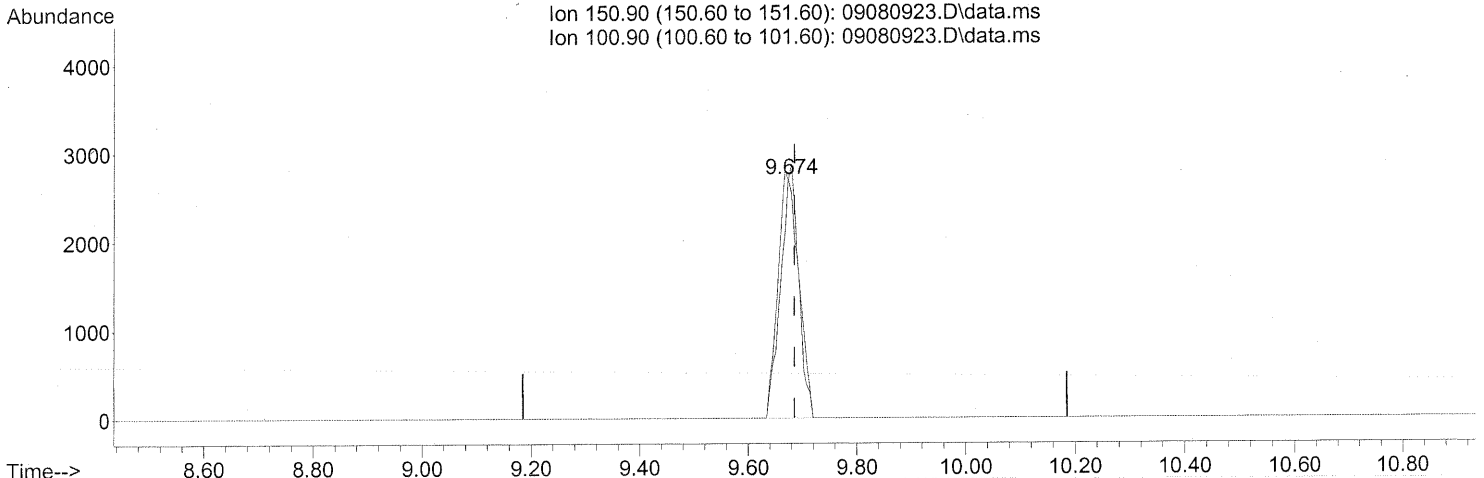
response 156700

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	15.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080923.D
Acq On : 9 Sep 2009 2:19 am
Operator : LM/CC
Sample : P0903081-001 (1000ml)
Misc : EH&E 104764
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.674min (-0.011) 0.49ng

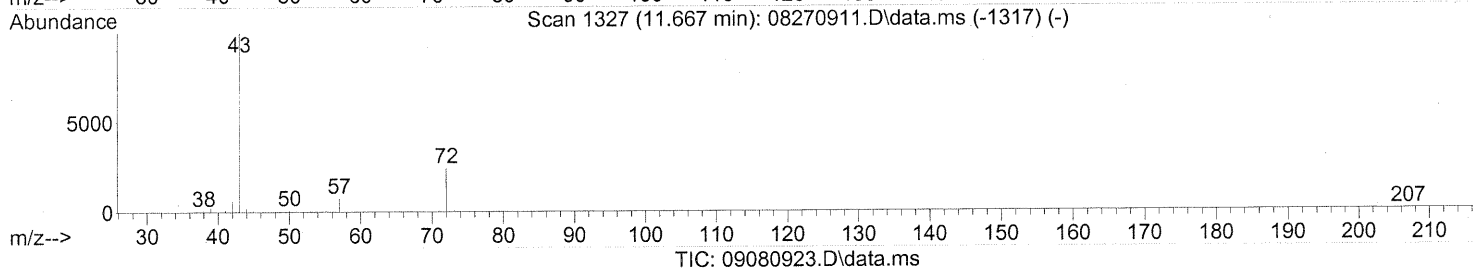
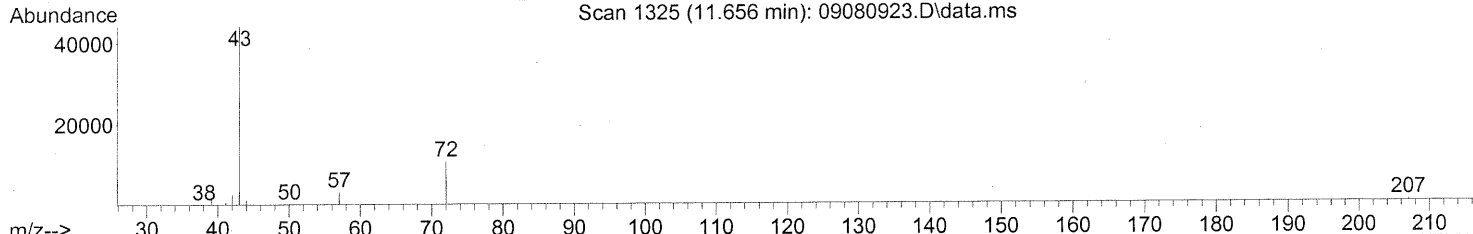
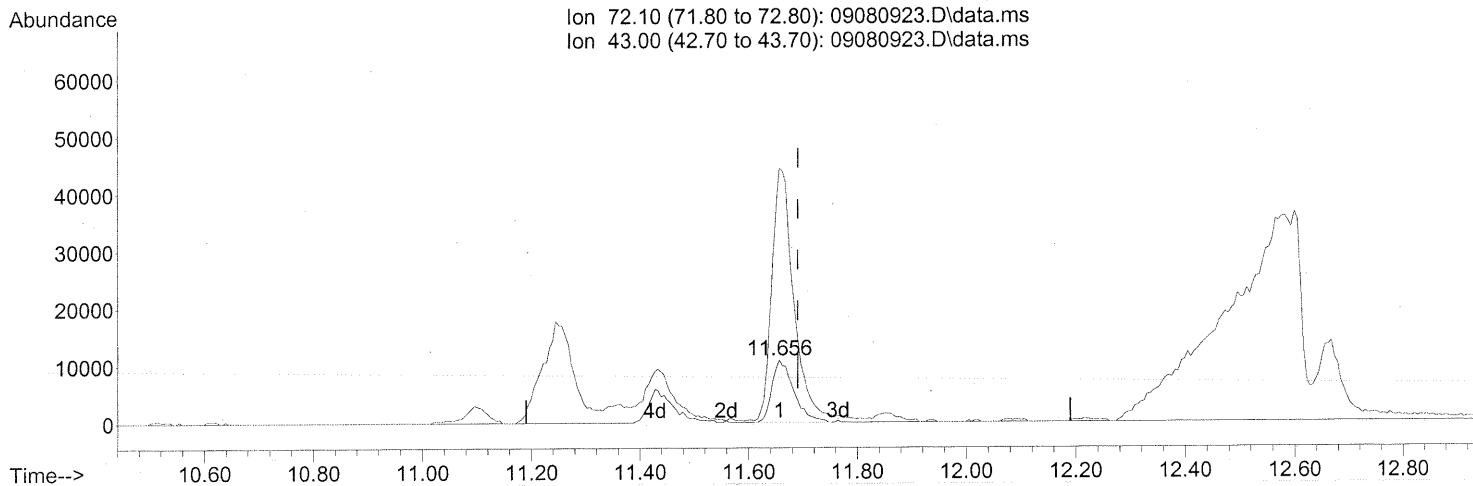
response 6296

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	121.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



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

11.656min (-0.034) 2.75ng

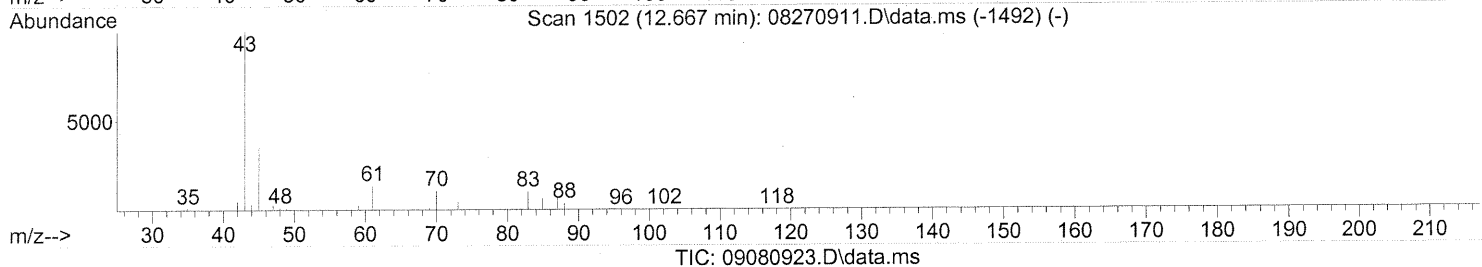
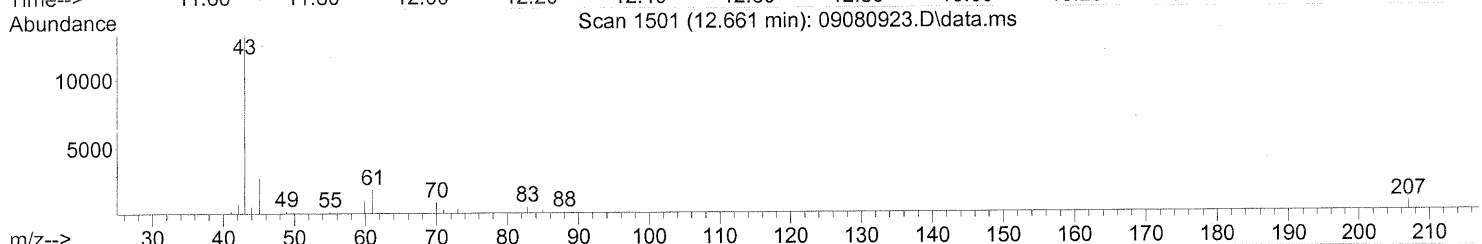
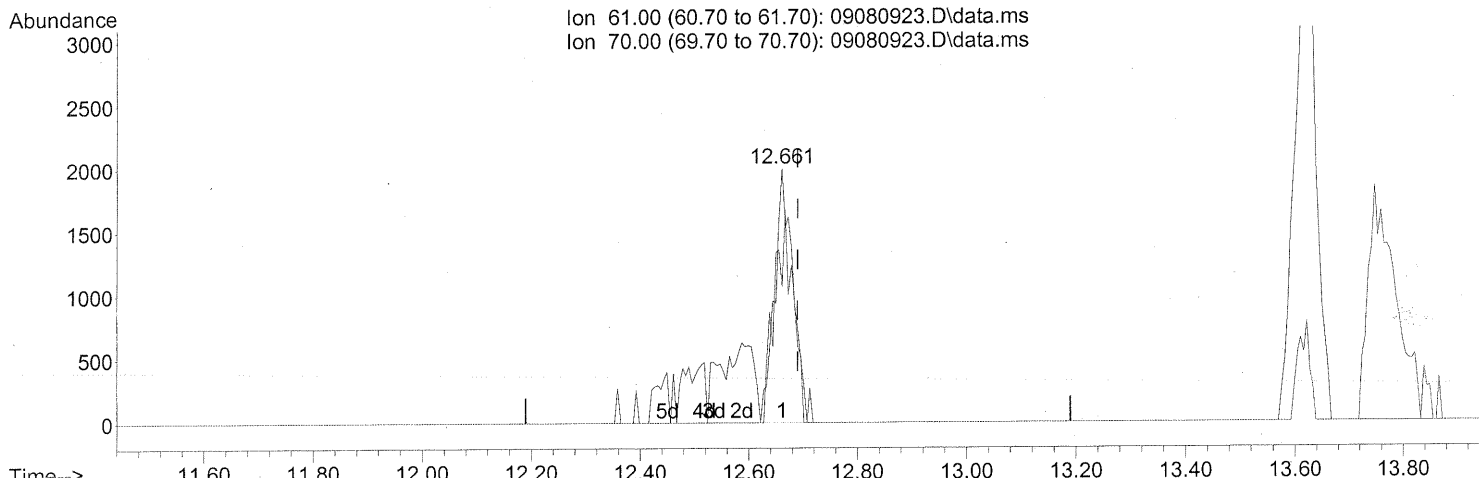
response 30228

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	425.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(30) Ethyl Acetate (T)

12.661min (-0.029) 0.81ng

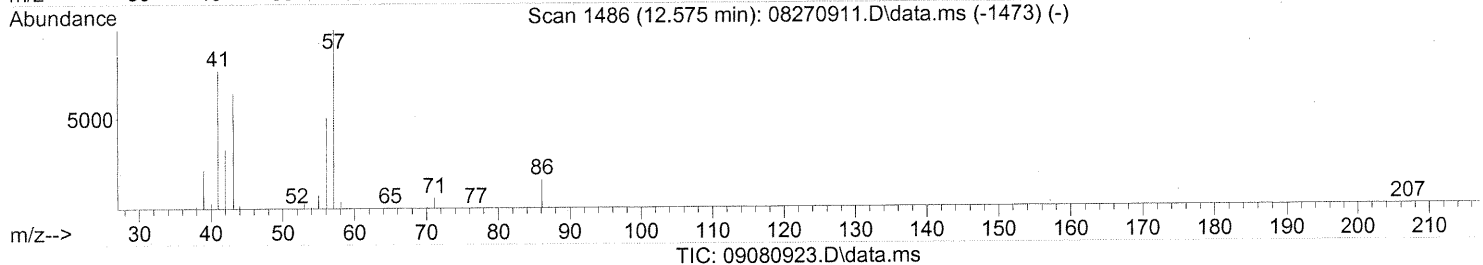
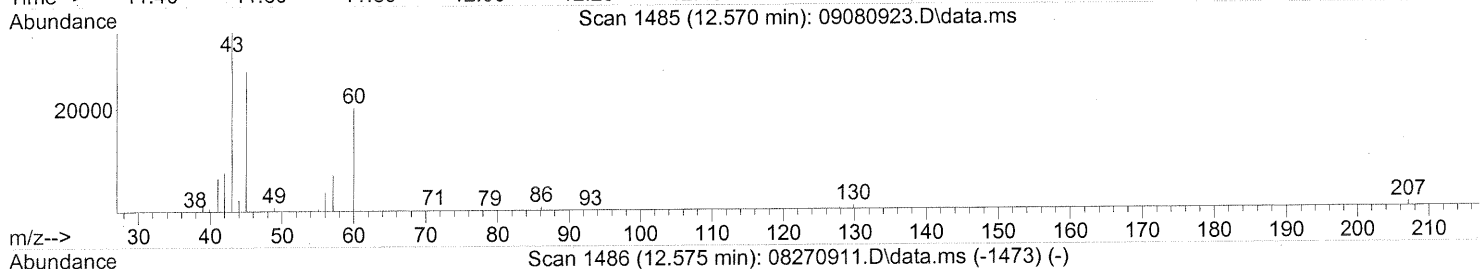
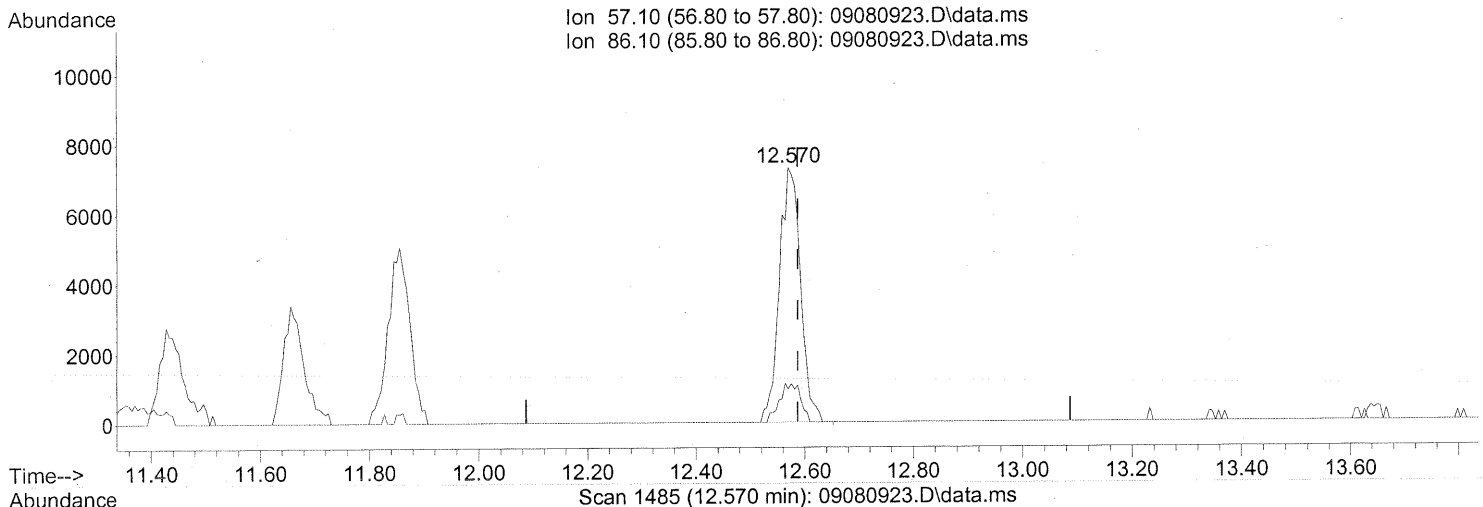
response 4763

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	84.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080923.D
Acq On : 9 Sep 2009 2:19 am
Operator : LM/CC
Sample : P0903081-001 (1000ml)
Misc : EH&E 104764
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



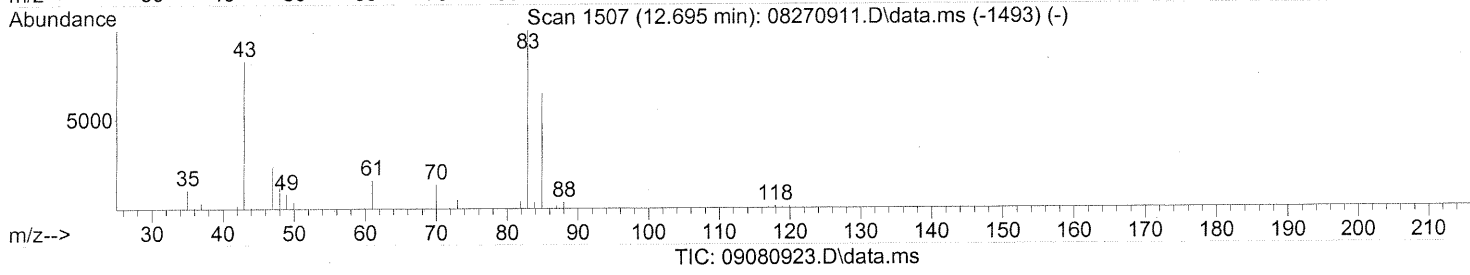
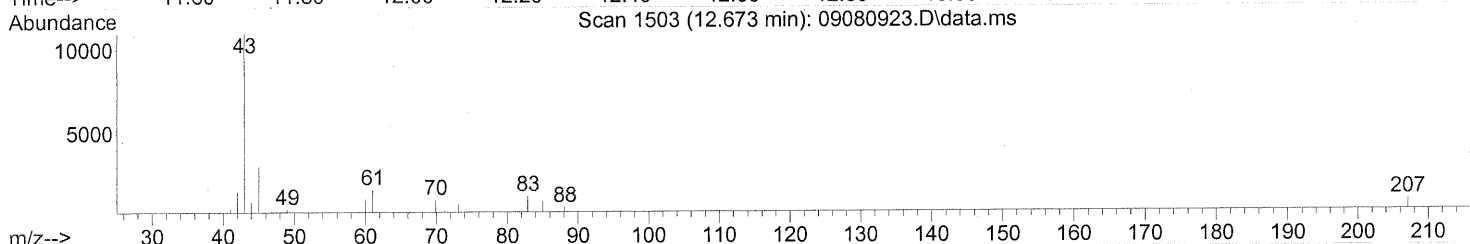
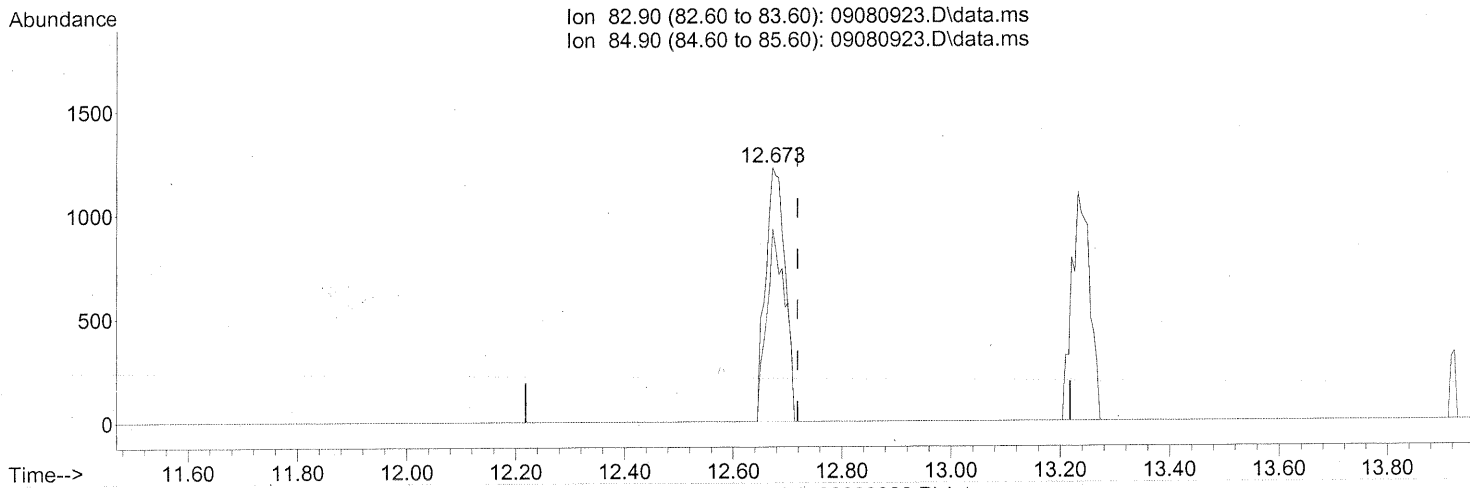
(31) n-Hexane (T)
12.570min (-0.017) 0.67ng
response 19632

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	15.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(32) Chloroform (T)

12.673min (-0.046) 0.11ng

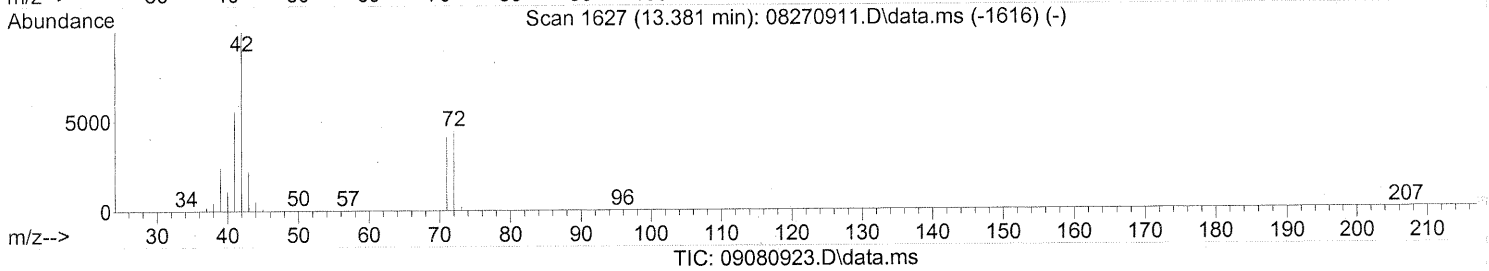
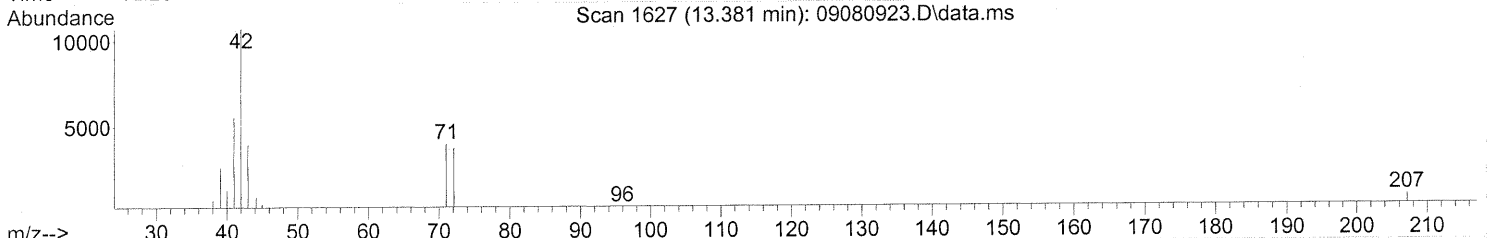
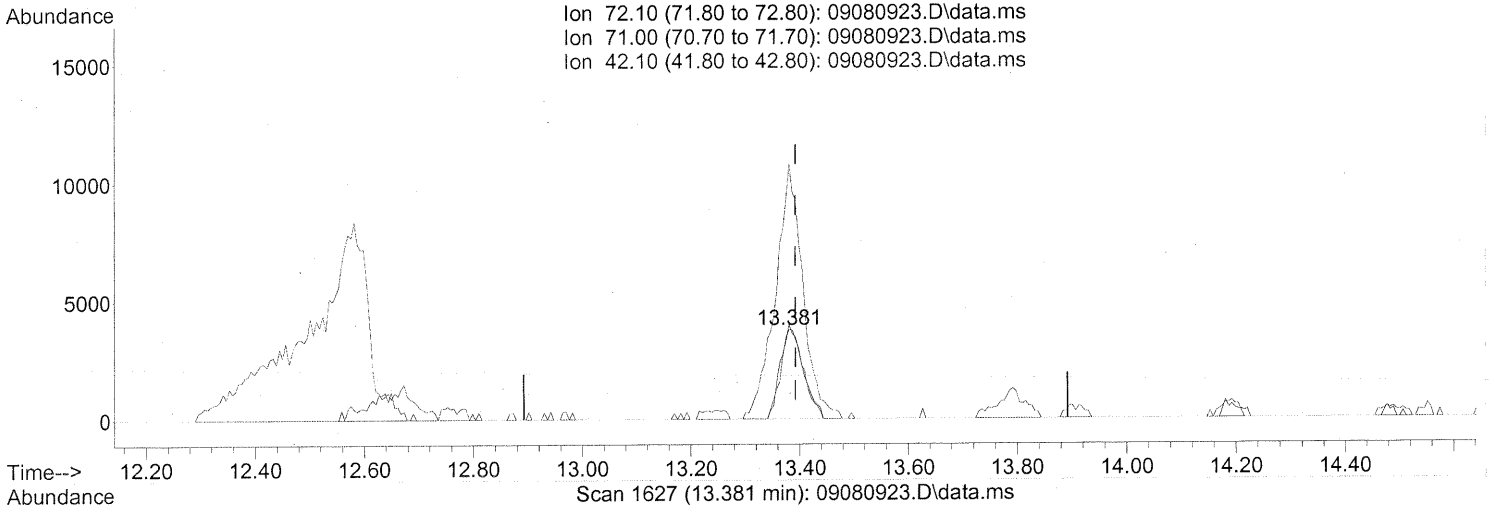
response 3075

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	72.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080923.D
Acq On : 9 Sep 2009 2:19 am
Operator : LM/CC
Sample : P0903081-001 (1000ml)
Misc : EH&E 104764
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



(34) Tetrahydrofuran (THF) (T)

13.381min (-0.011) 0.96ng

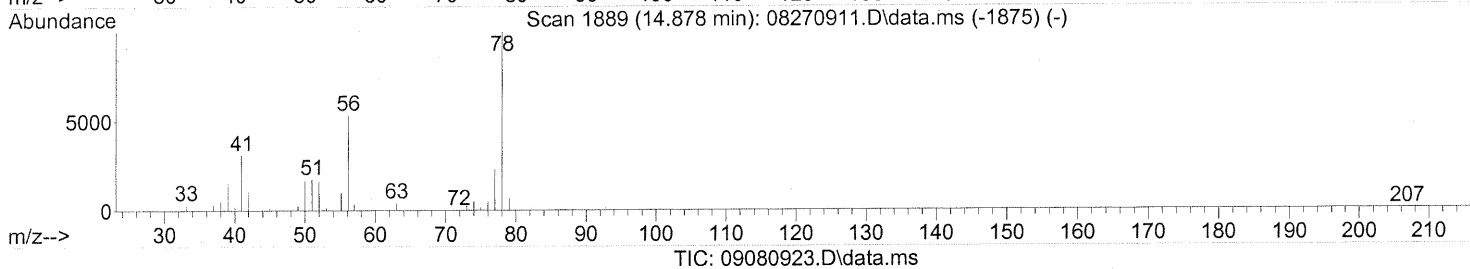
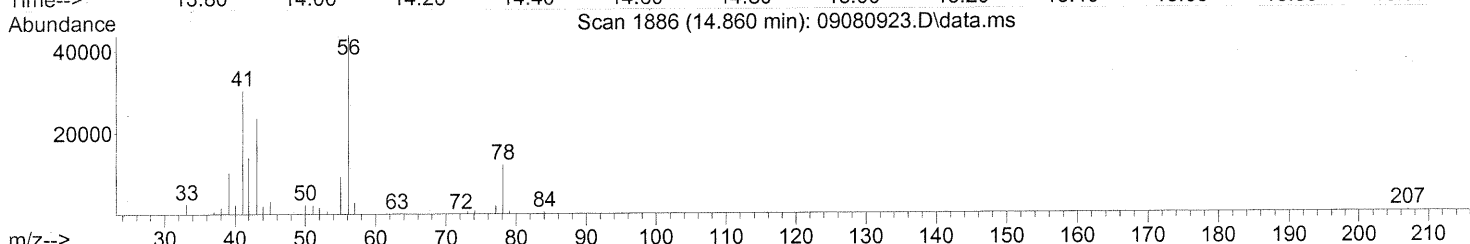
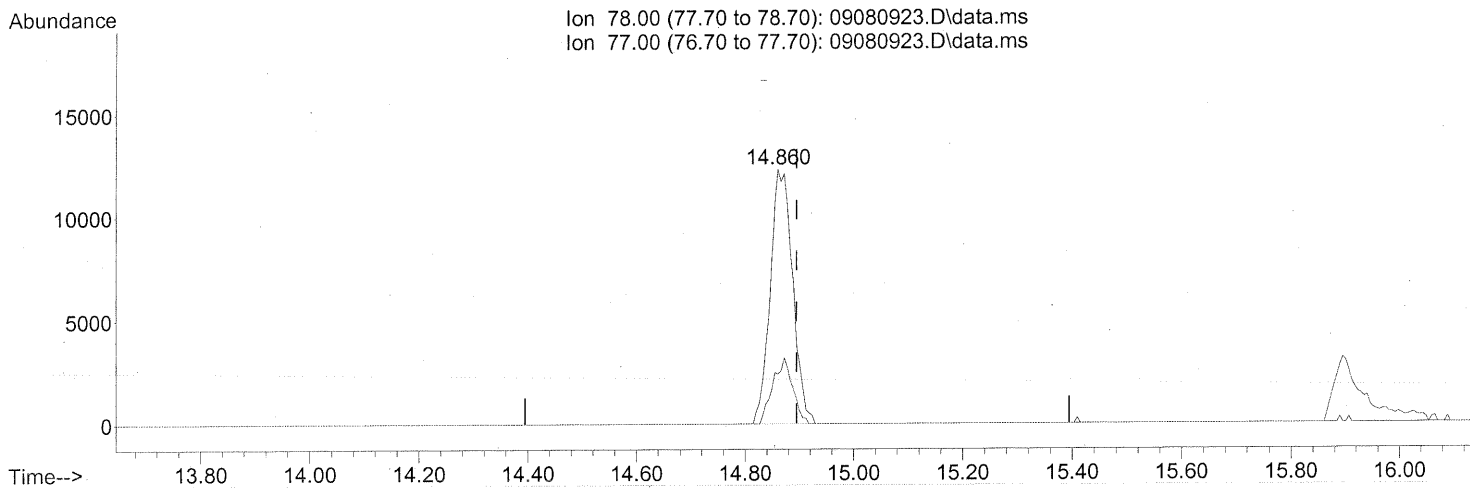
response 11388

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	96.03
42.10	254.10	330.80#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(41) Benzene (T)

14.860min (-0.034) 0.50ng

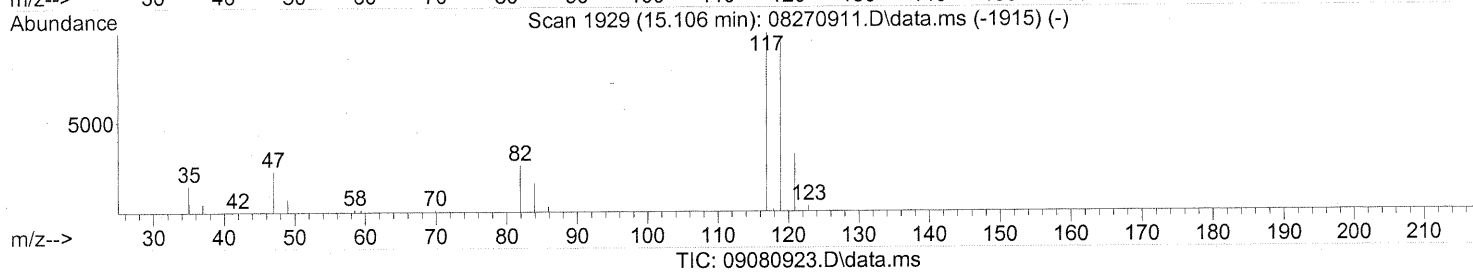
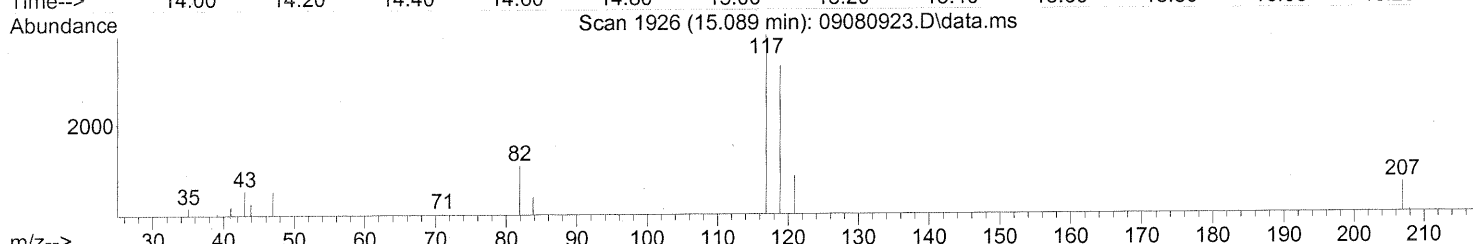
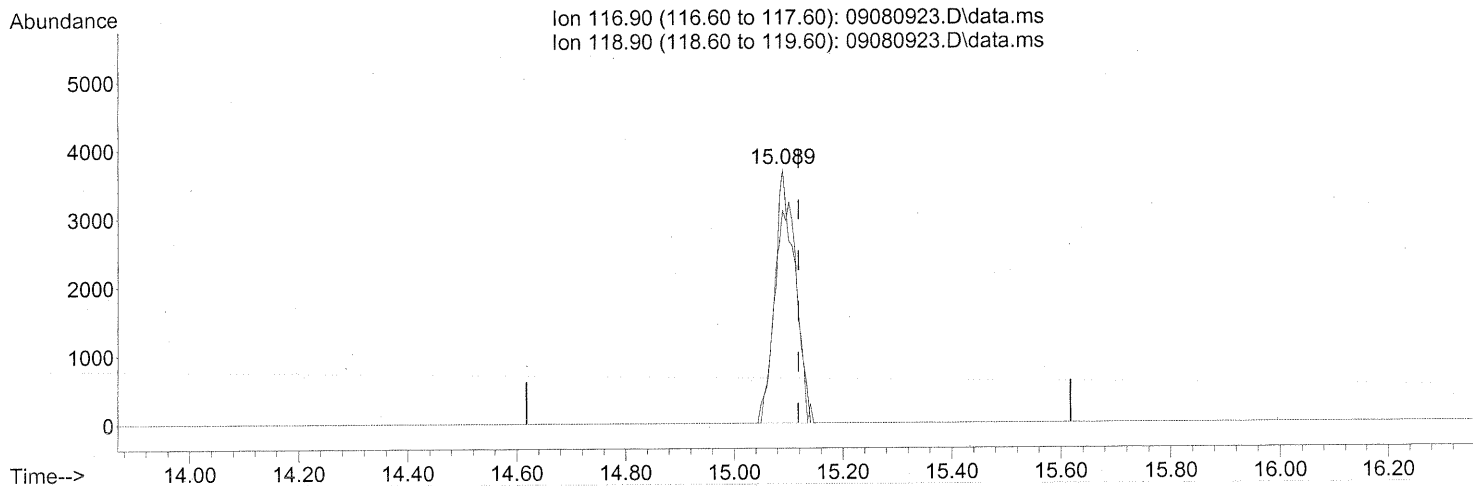
response 35356

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	22.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.089min (-0.029) 0.40ng

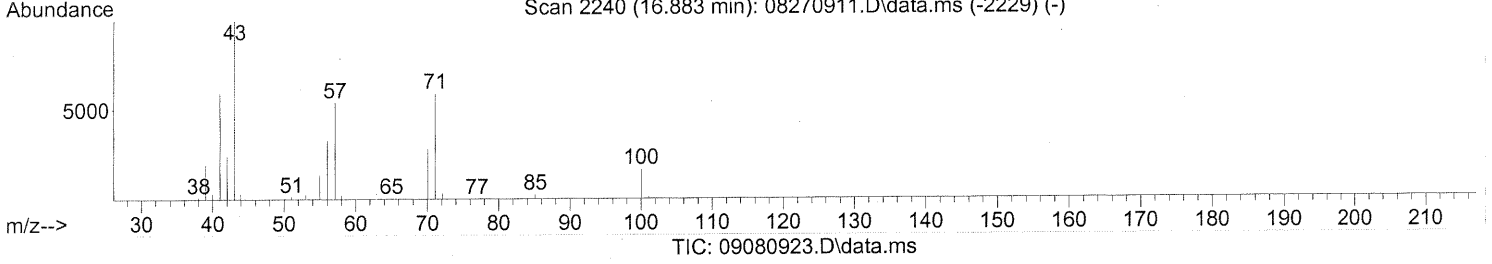
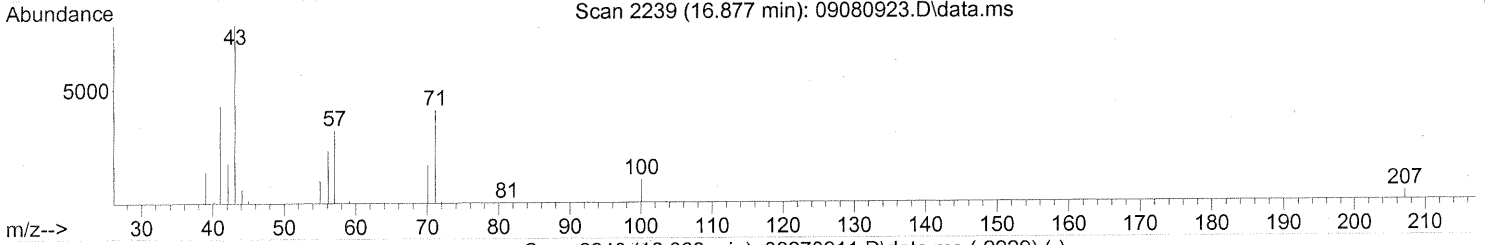
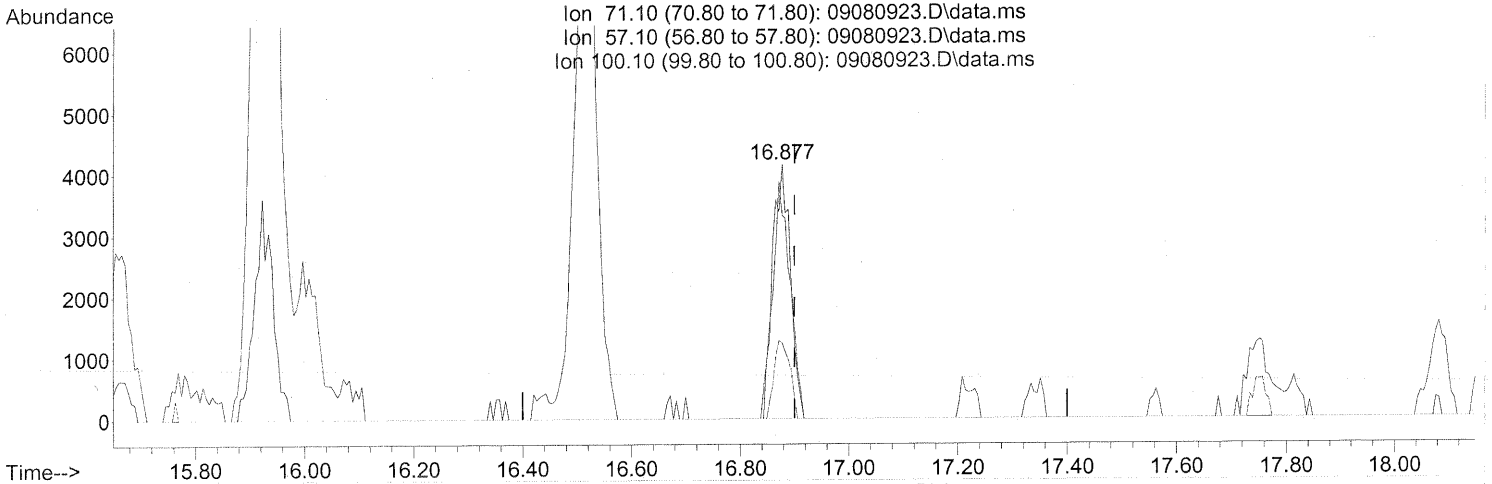
response 9466

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	97.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



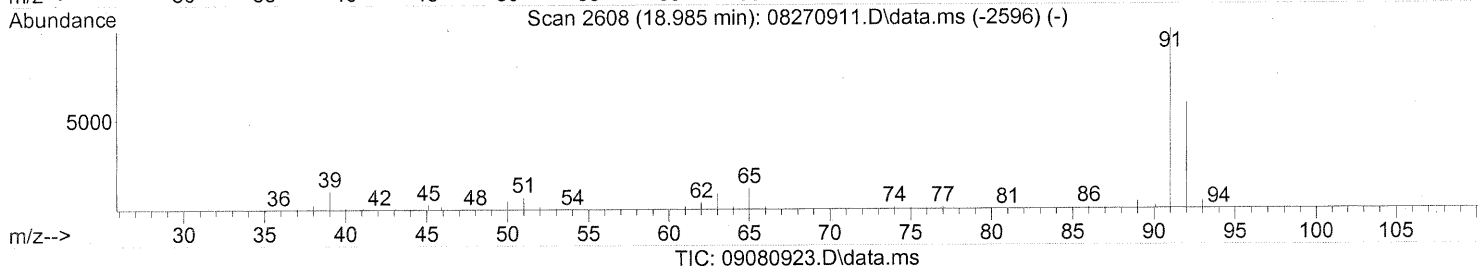
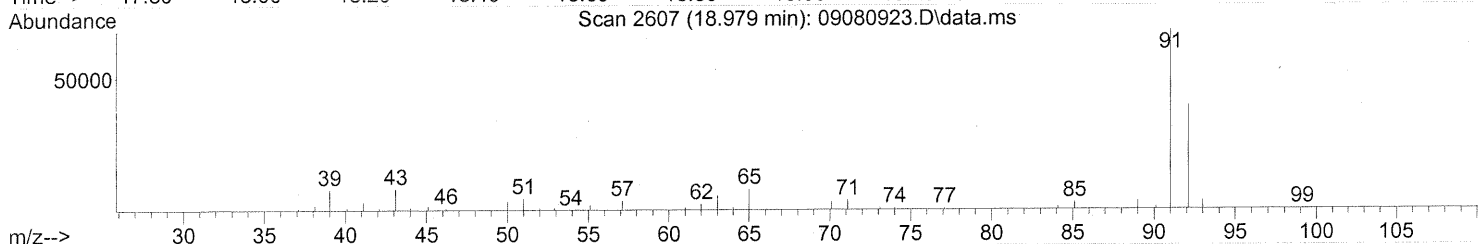
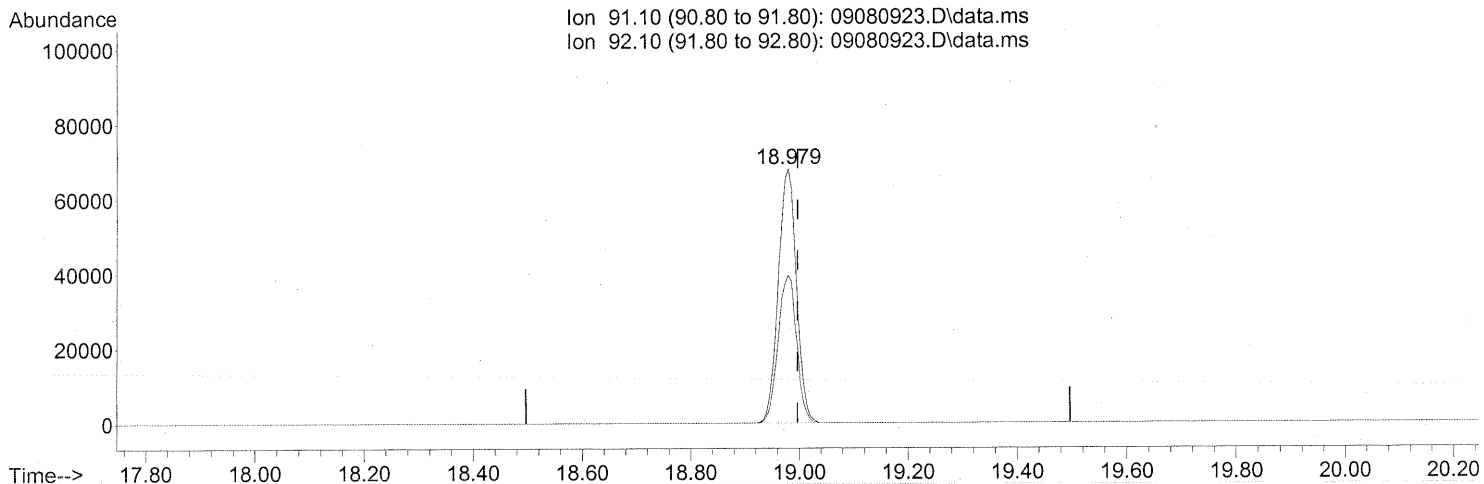
(51) n-Heptane (T)
 16.877min (-0.023) 0.52ng
 response 9405

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	93.42
100.10	22.00	27.42
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(58) Toluene (T)

18.979min (-0.017) 2.21ng

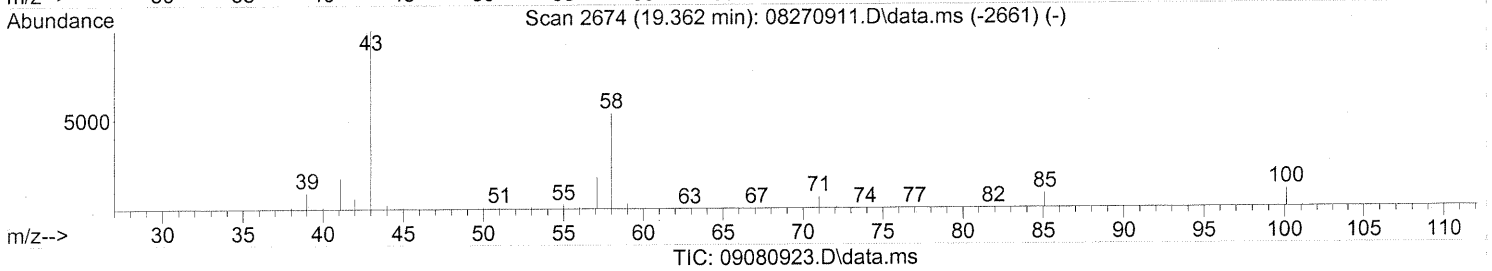
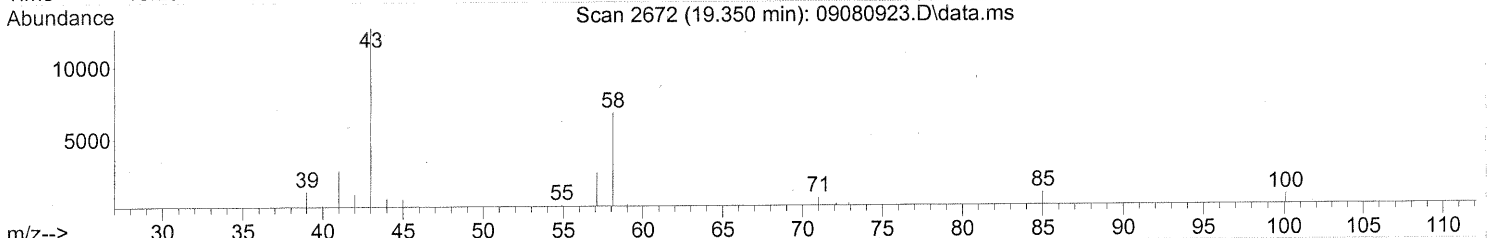
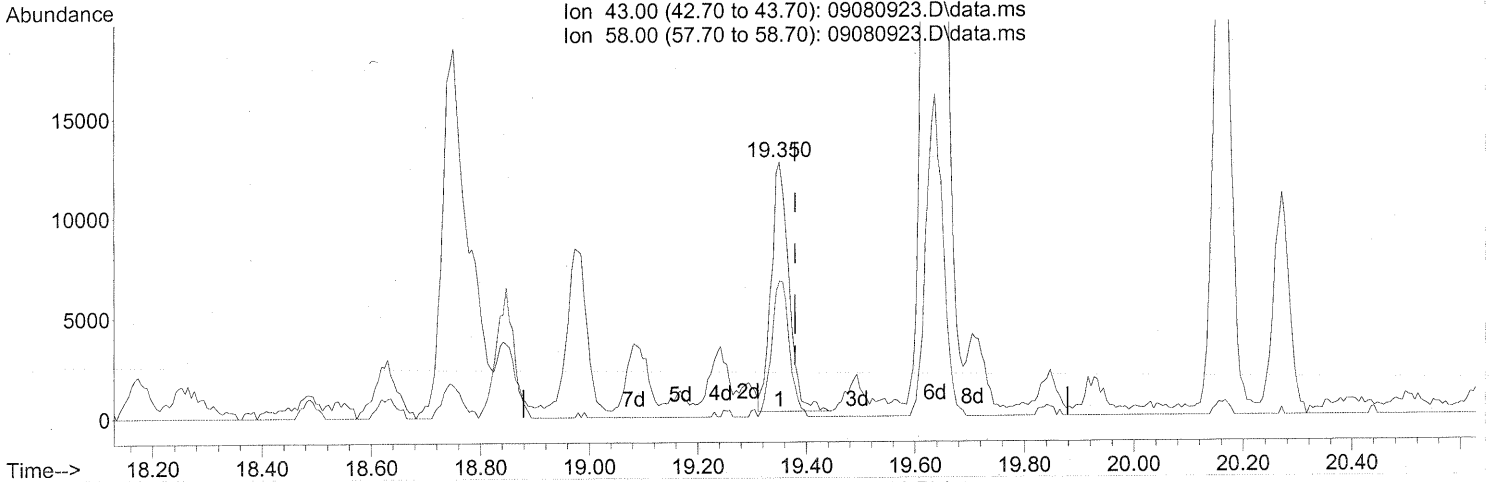
response 156453

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



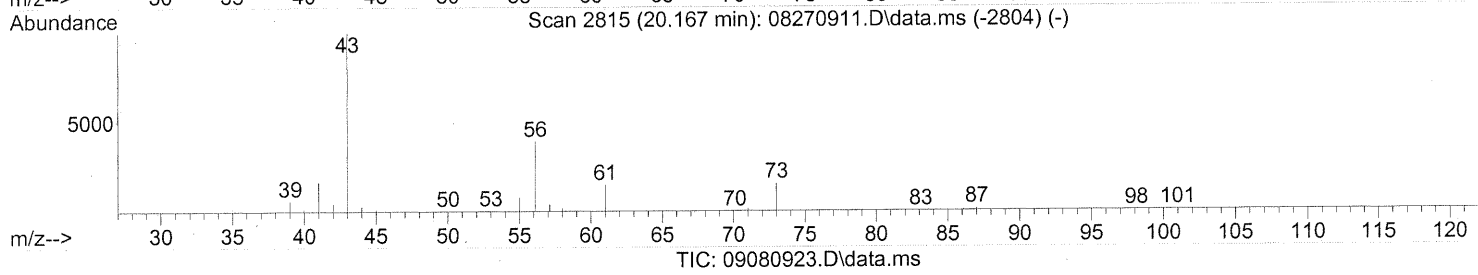
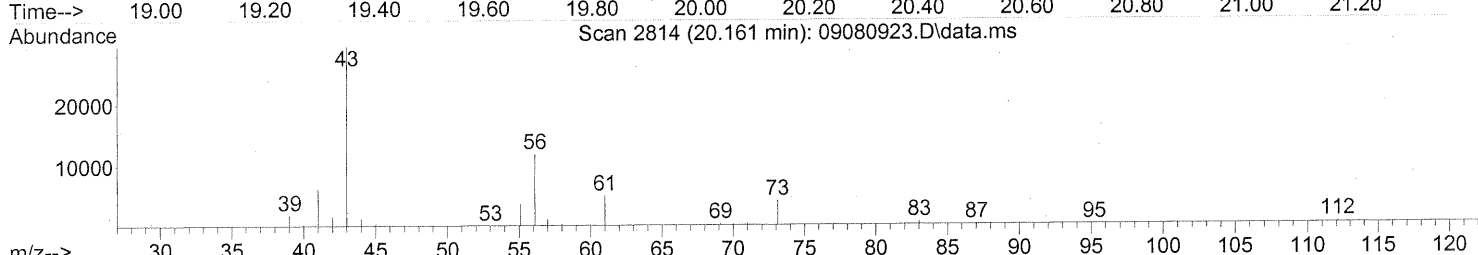
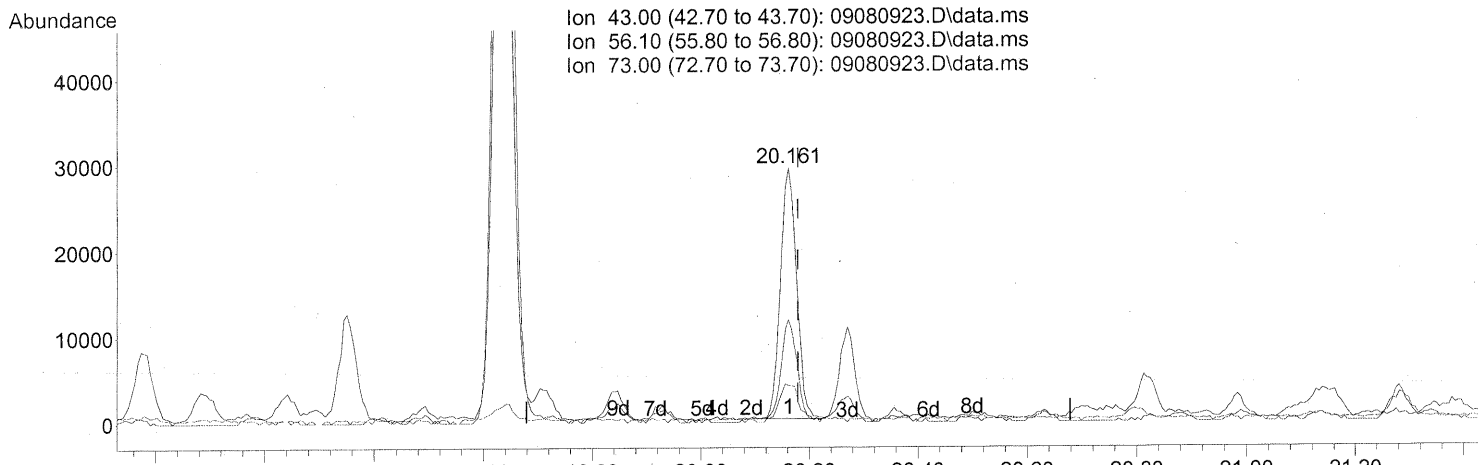
(59) 2-Hexanone (T)
 19.350min (-0.029) 0.65ng
 response 28061

Ion	Exp%	Act%
43.00	100	100
58.00	51.70	54.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



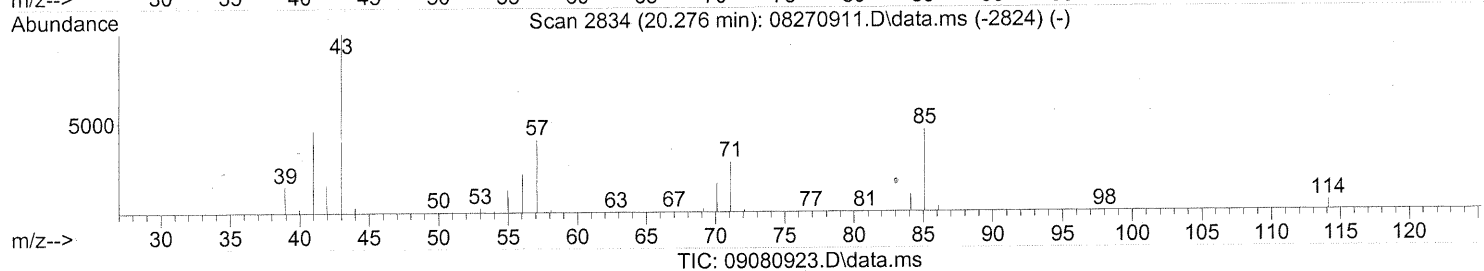
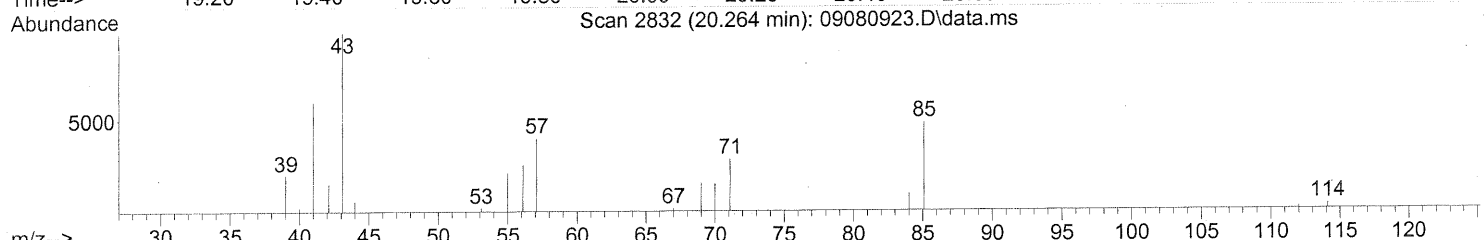
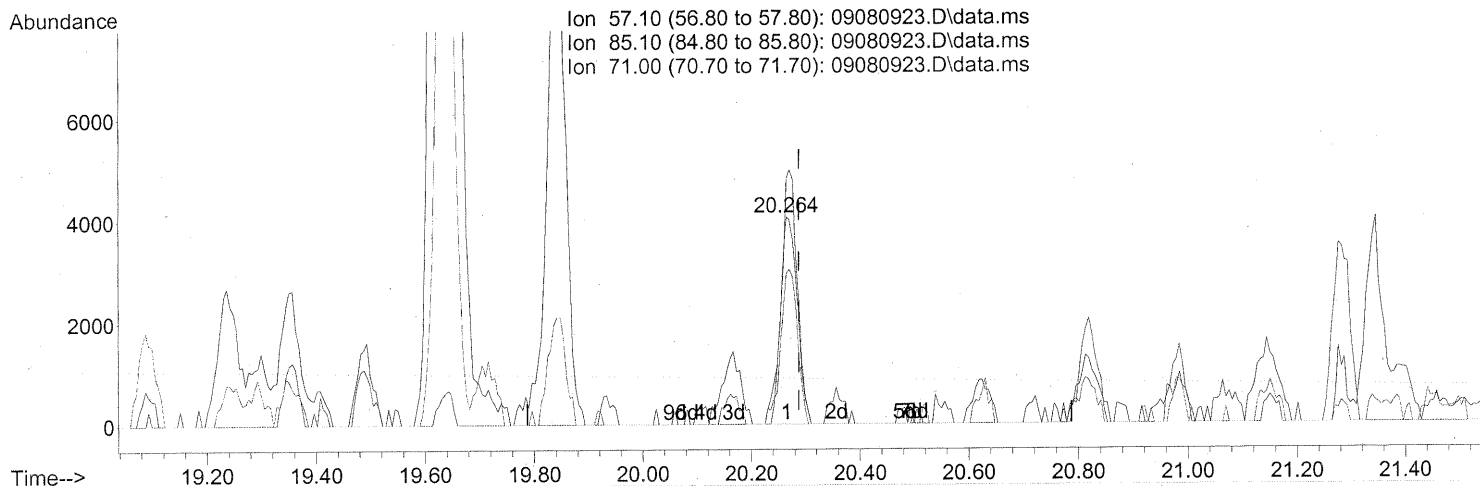
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 1.22ng
 response 60437

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	41.94
73.00	14.30	18.88
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



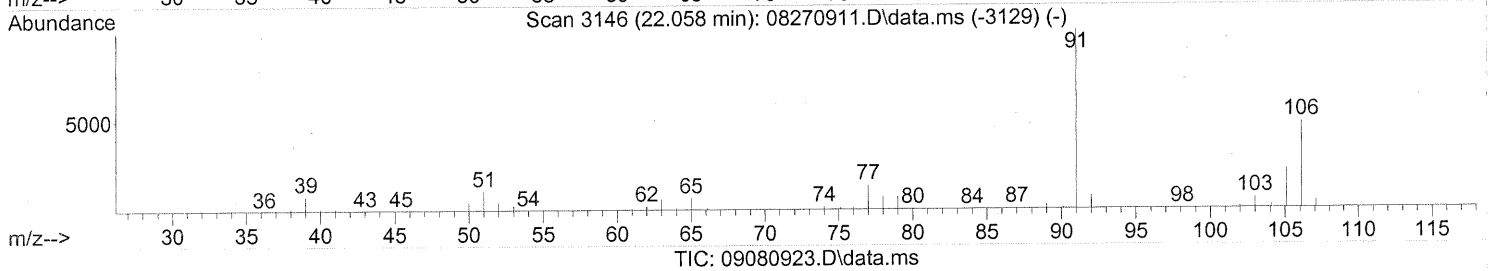
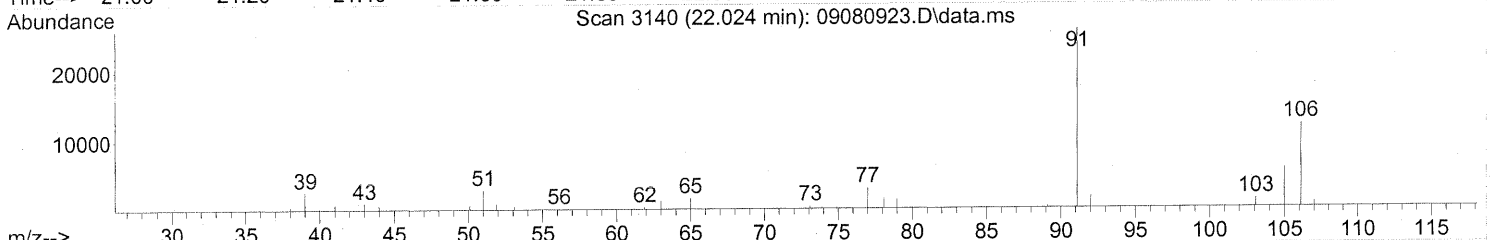
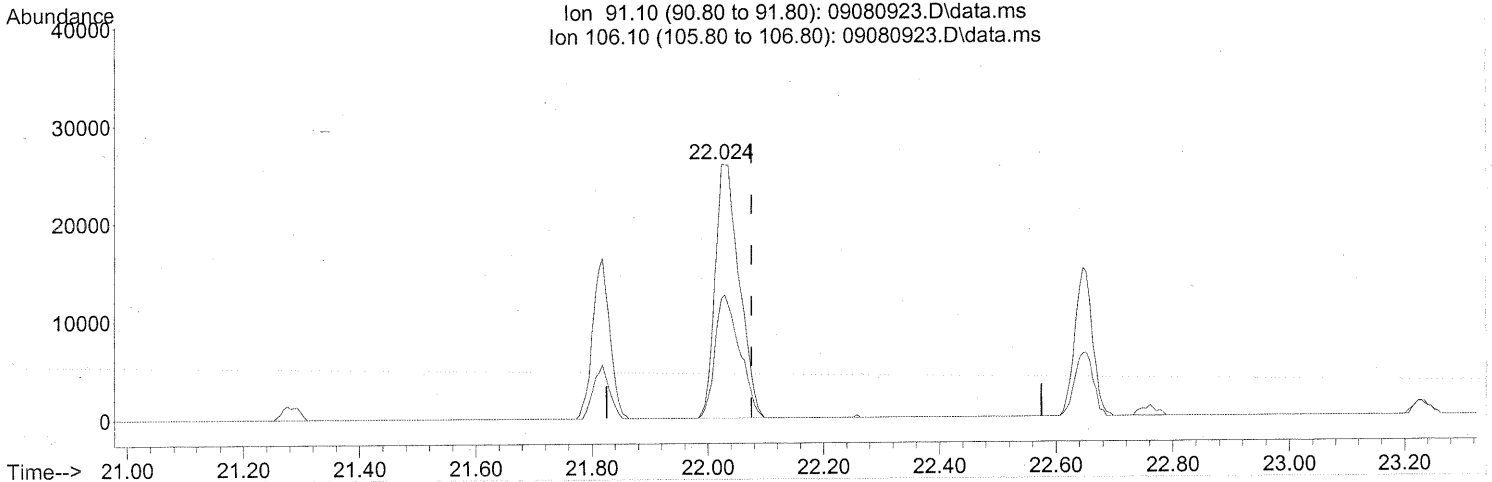
(63) n-Octane (T)
 20.264min (-0.023) 0.56ng
 response 9032

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	109.49
71.00	69.10	72.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080923.D
Acq On : 9 Sep 2009 2:19 am
Operator : LM/CC
Sample : P0903081-001 (1000ml)
Misc : EH&E 104764
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



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

22.024min (-0.051) 1.17ng

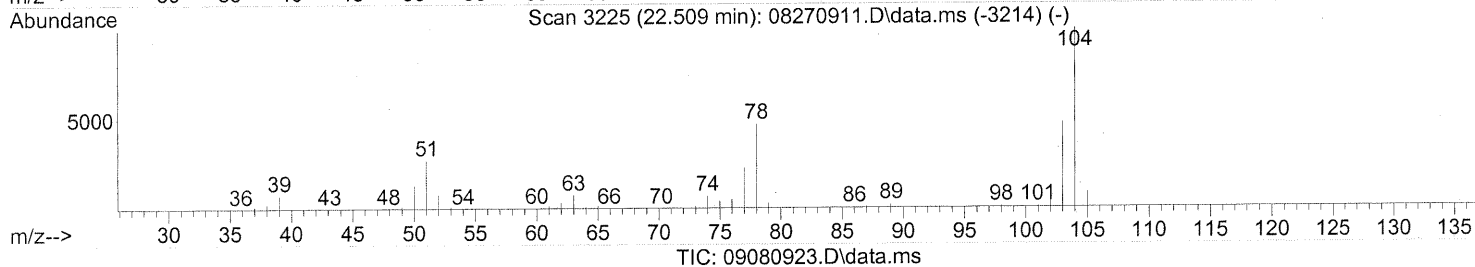
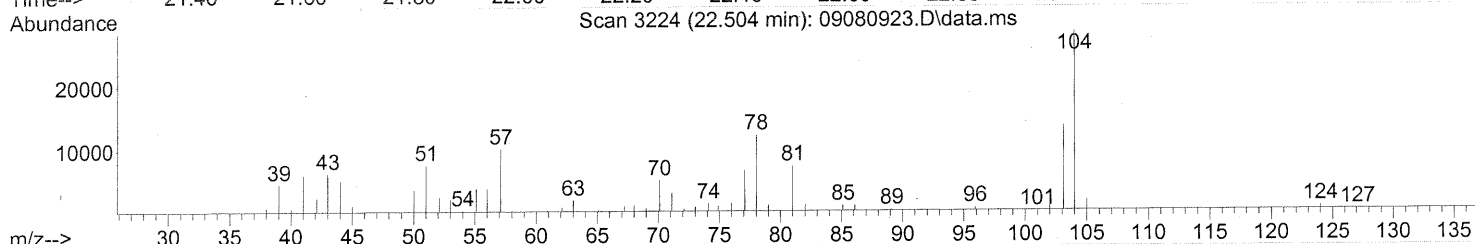
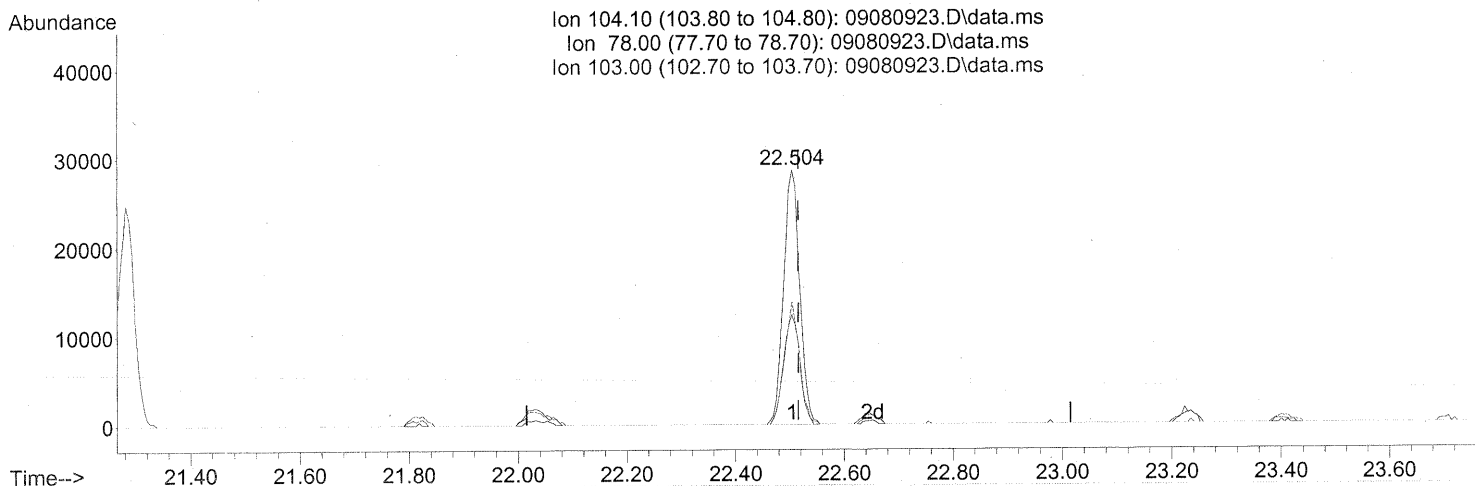
response 75192

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	49.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



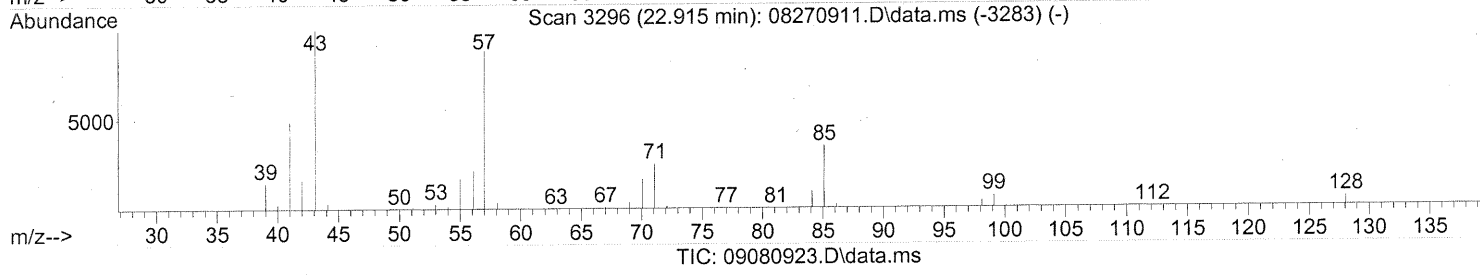
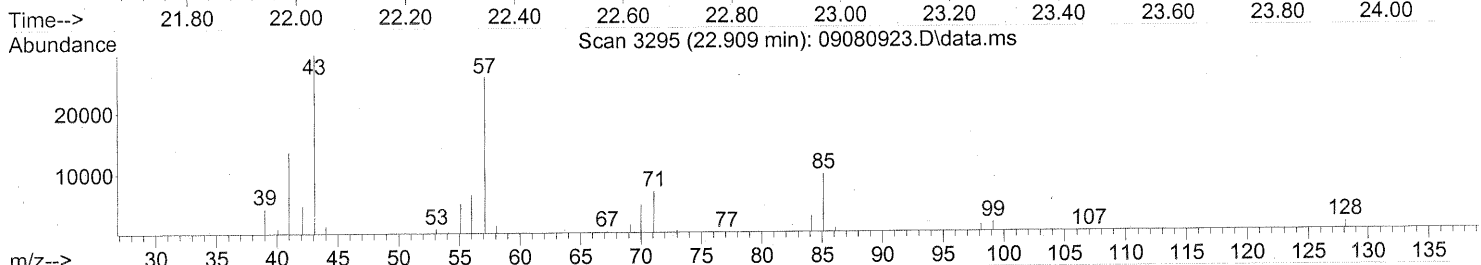
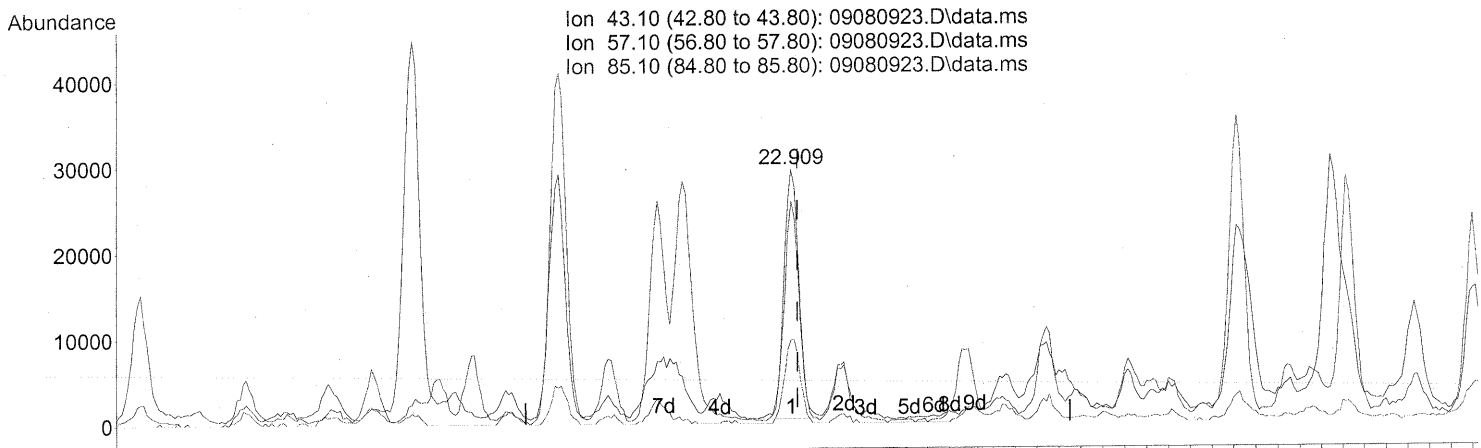
(69) Styrene (T)
 22.504min (-0.011) 1.22ng
 response 58005

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	43.78
103.00	47.00	45.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



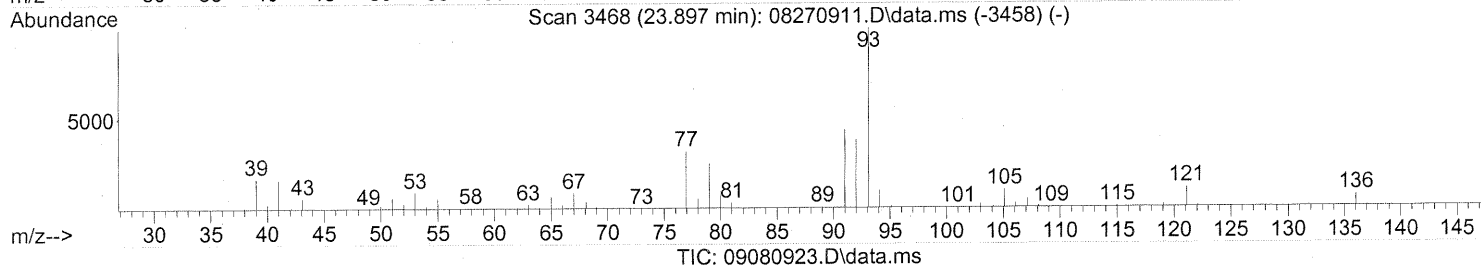
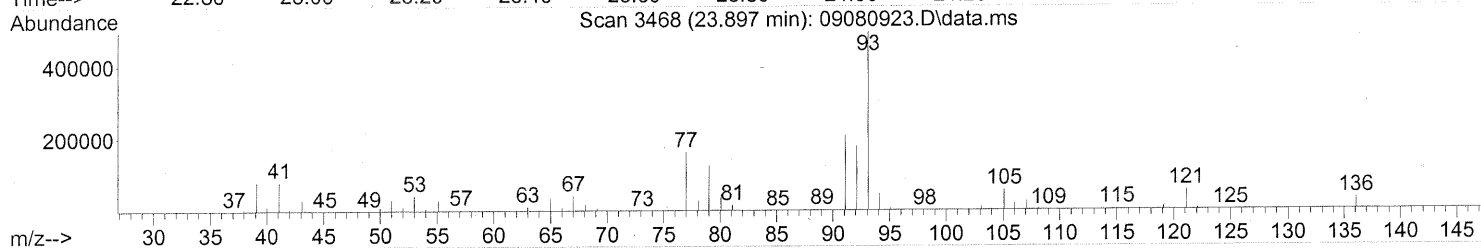
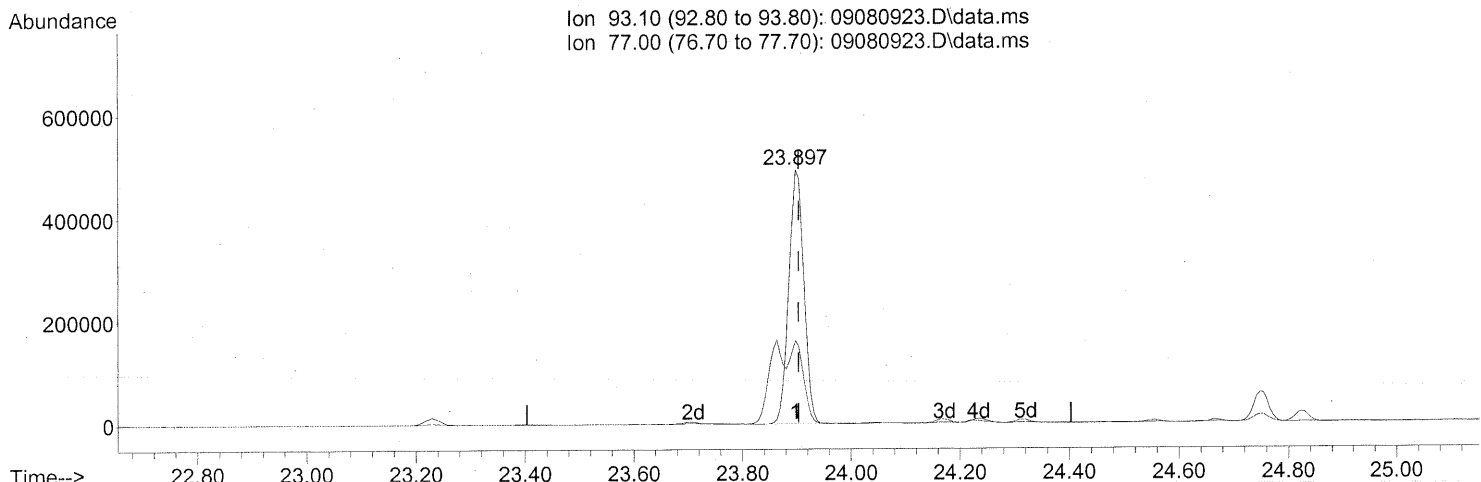
(71) n-Nonane (T)
 22.909min (-0.011) 1.44ng
 response 55945

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	86.32
85.10	32.20	34.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



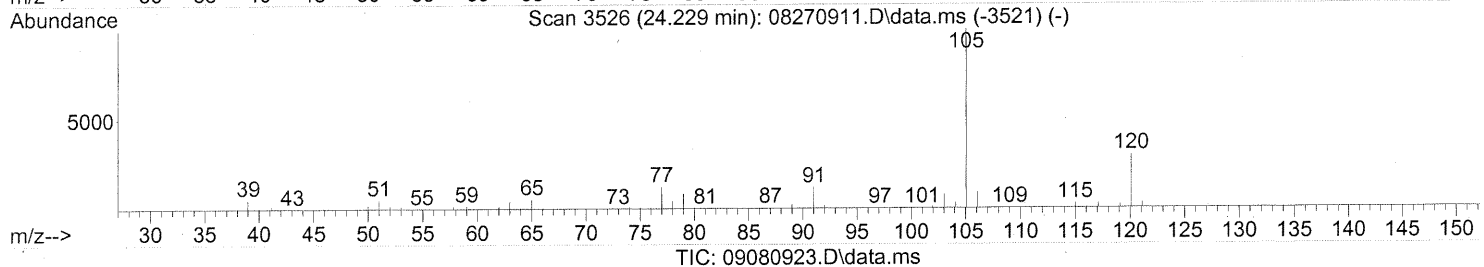
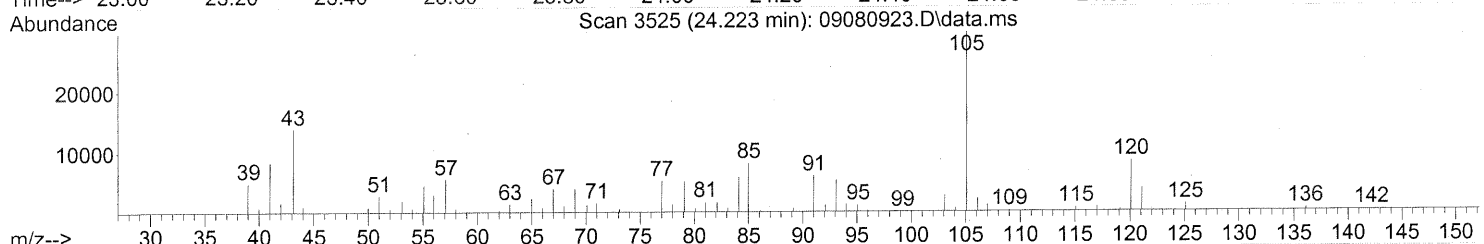
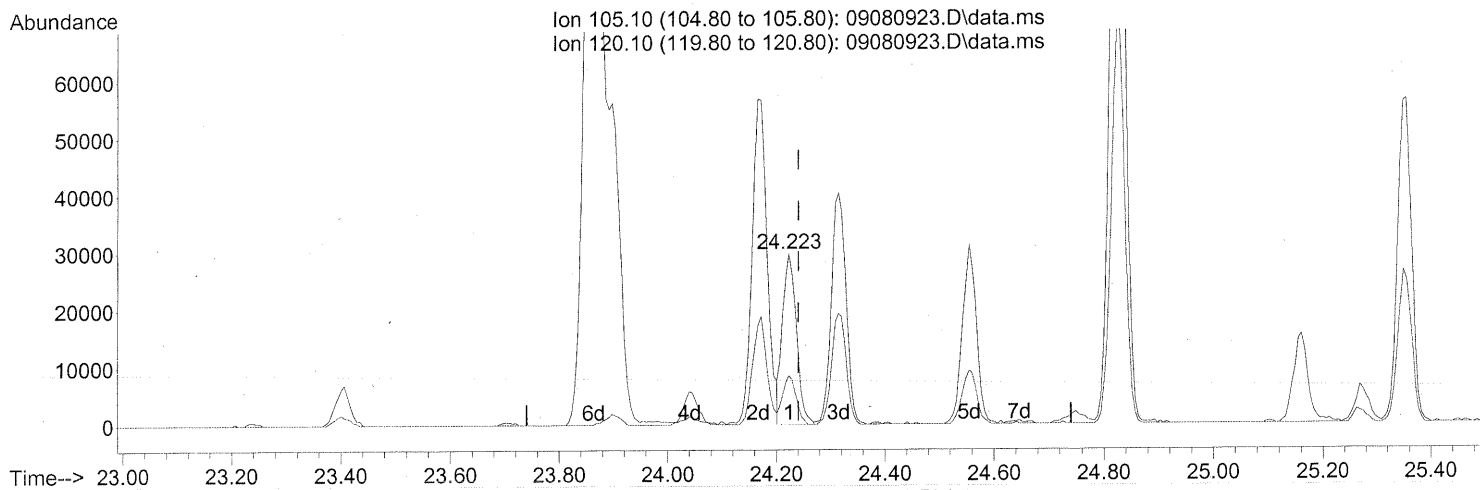
(75) alpha-Pinene (T)
 23.897min (-0.006) 22.32ng
 response 948671

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	26.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.223min (-0.017) 0.68ng

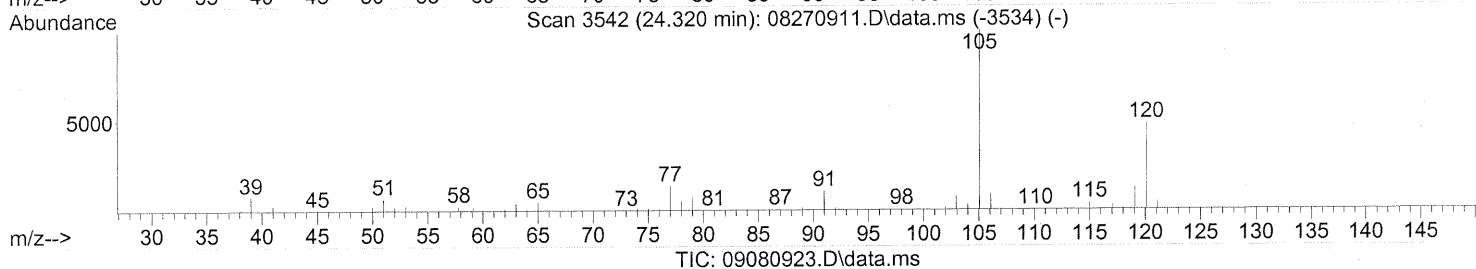
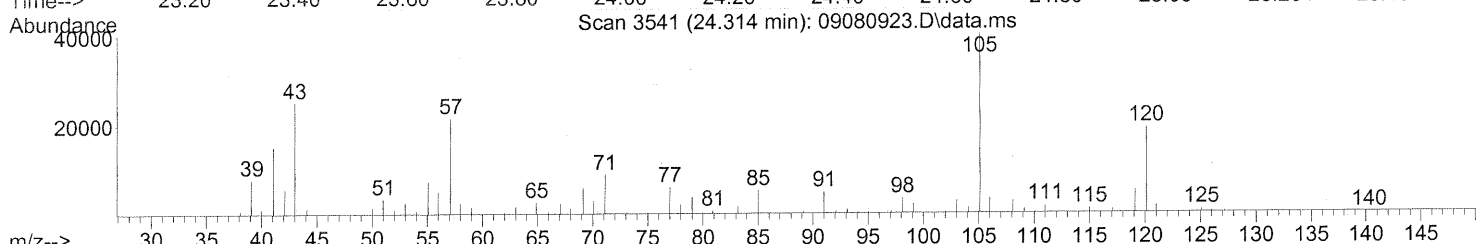
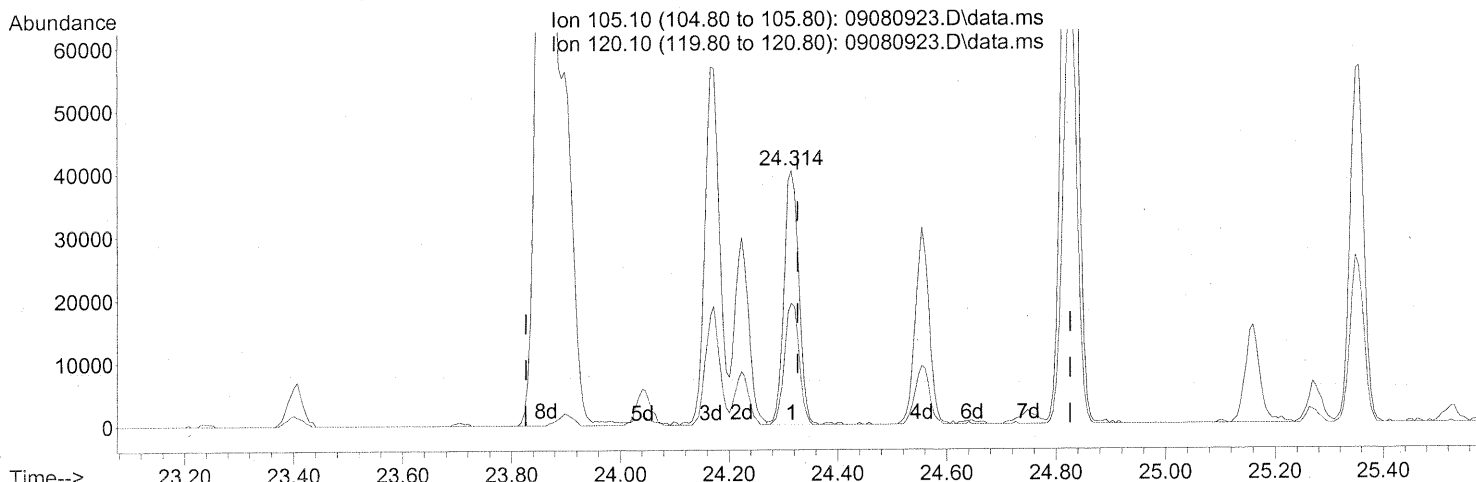
response 52758

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	27.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



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

24.314min (-0.011) 1.18ng

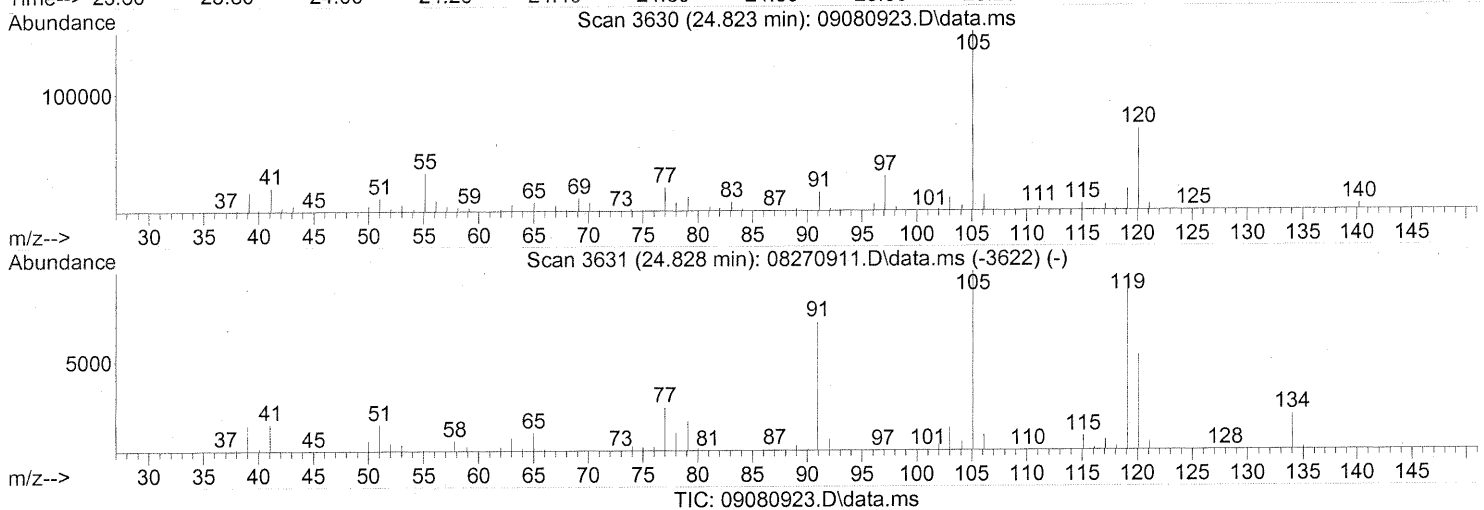
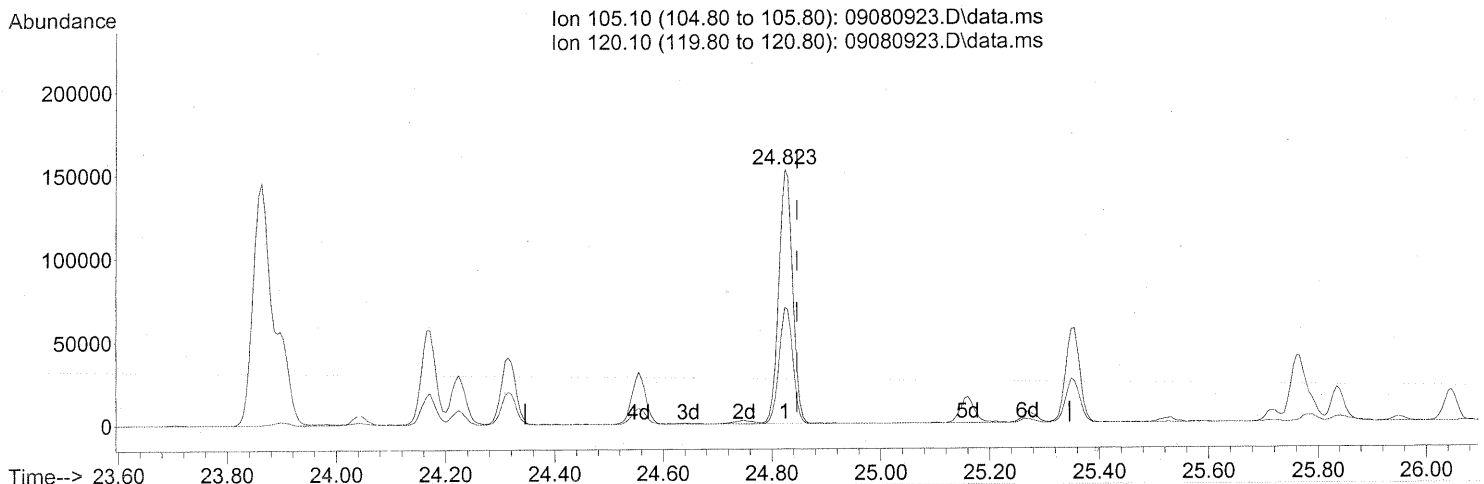
response 76047

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



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

24.823min (-0.023) 4.13ng

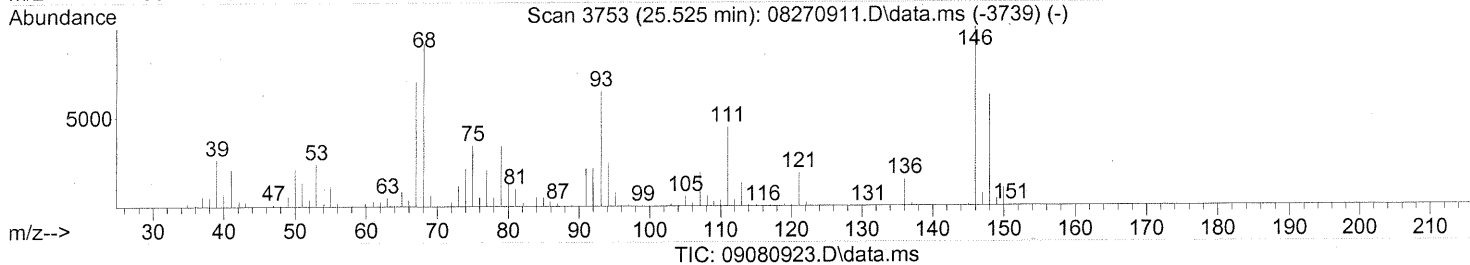
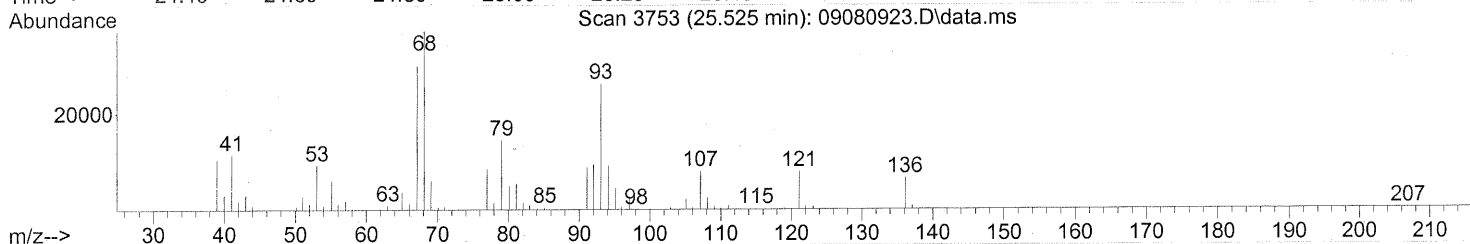
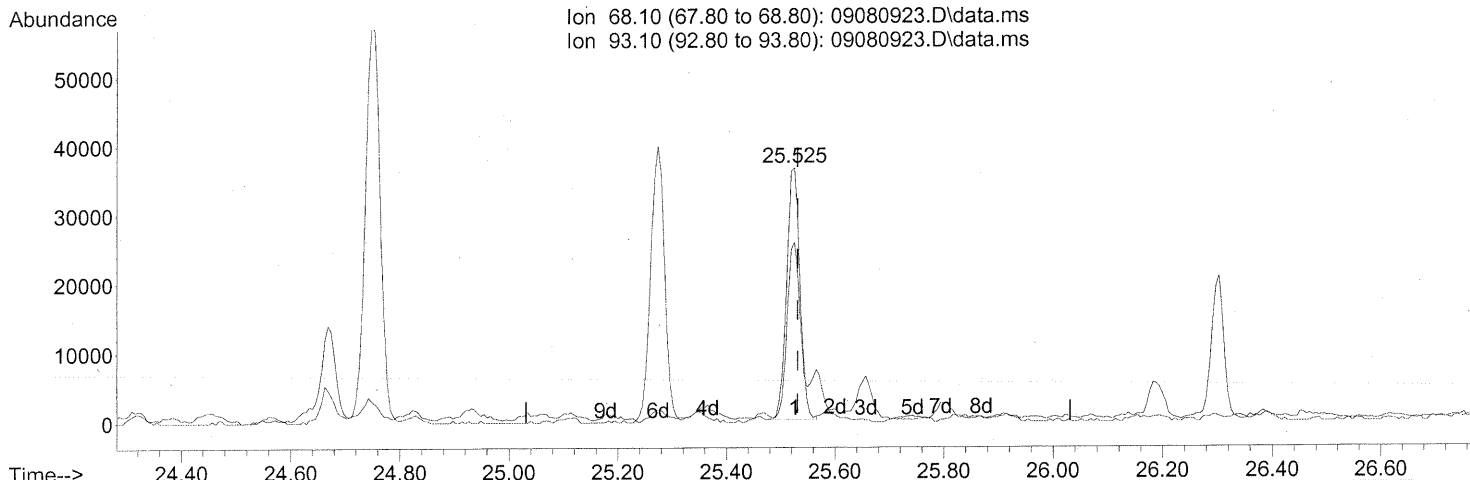
response 271403

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(91) d-Limonene (T)

25.525min (-0.006) 2.34ng

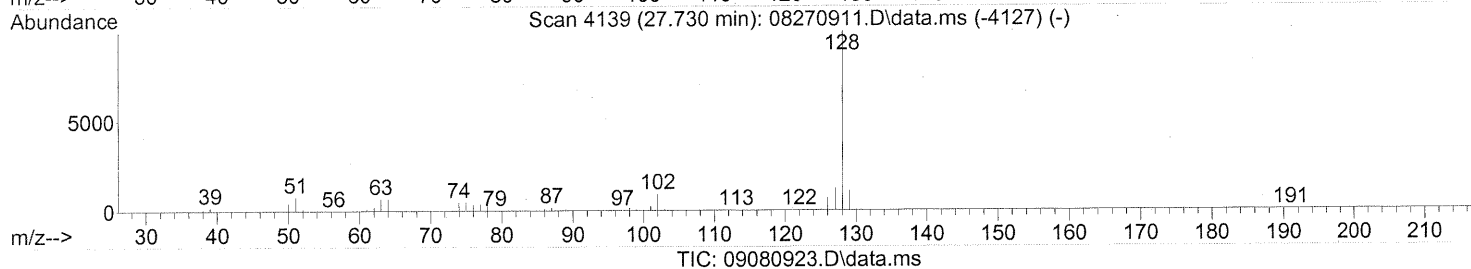
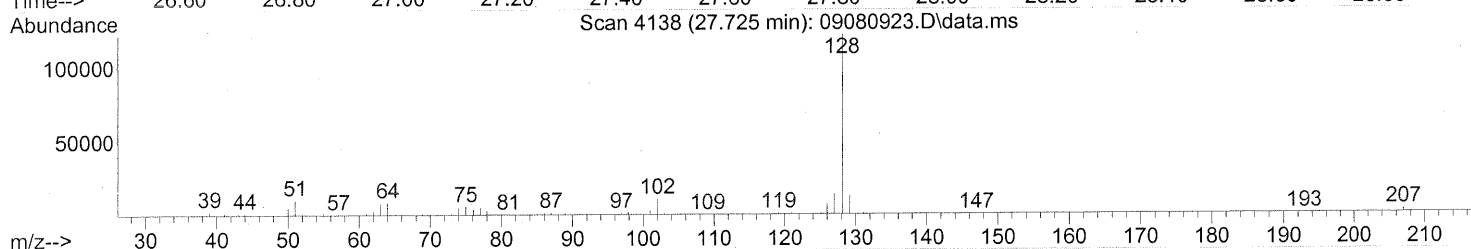
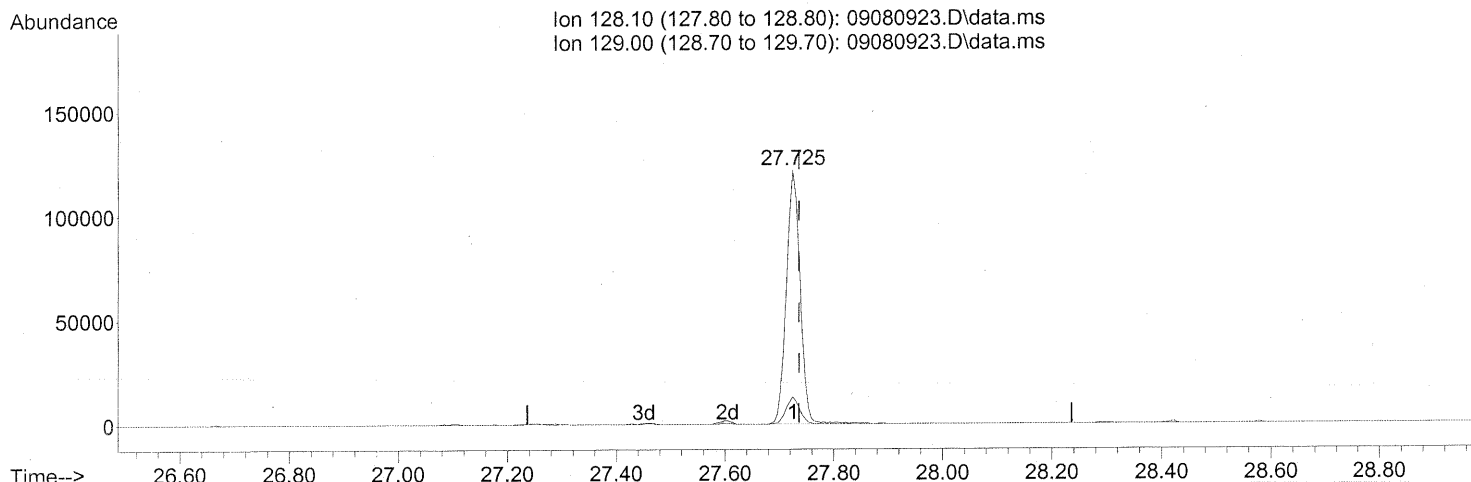
response 61522

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	75.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080923.D
 Acq On : 9 Sep 2009 2:19 am
 Operator : LM/CC
 Sample : P0903081-001 (1000ml)
 Misc : EH&E 104764
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 09 10:13:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



(95) Naphthalene (T)

27.725min (-0.011) 2.34ng

response 212788

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.36
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104765
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00705

CAS Project ID: P0903081
CAS Sample ID: P0903081-002

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	1.2	0.62	0.69	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.62	0.58	0.12	
74-87-3	Chloromethane	0.58	0.12	0.28	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	18	6.2	9.6	3.3	
75-05-8	Acetonitrile	63	0.62	38	0.37	
107-02-8	Acrolein	2.4	0.62	1.1	0.27	
67-64-1	Acetone	68	6.2	29	2.6	
75-69-4	Trichlorofluoromethane	1.5	0.12	0.26	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.4	0.62	1.8	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.67	0.12	0.087	0.016	
75-15-0	Carbon Disulfide	0.71	0.62	0.23	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	6.3	6.2	1.8	1.7	
78-93-3	2-Butanone (MEK)	3.6	0.62	1.2	0.21	

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

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

Verified By: lu

Date: 9/16/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104765
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00705

CAS Project ID: P0903081
CAS Sample ID: P0903081-002

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	0.88	0.62	0.24	0.17	
110-54-3	n-Hexane	0.93	0.62	0.26	0.17	
67-66-3	Chloroform	0.16	0.12	0.033	0.025	
109-99-9	Tetrahydrofuran (THF)	1.4	0.62	0.46	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.71	0.12	0.22	0.039	
56-23-5	Carbon Tetrachloride	0.59	0.12	0.094	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	0.72	0.62	0.18	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.62	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	3.1	0.62	0.81	0.16	
591-78-6	2-Hexanone	0.90	0.62	0.22	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	2.2	0.62	0.47	0.13	

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

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

Verified By: Ro

Date: 9/16/09

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104765
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00705

CAS Project ID: P0903081
CAS Sample ID: P0903081-002

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.23

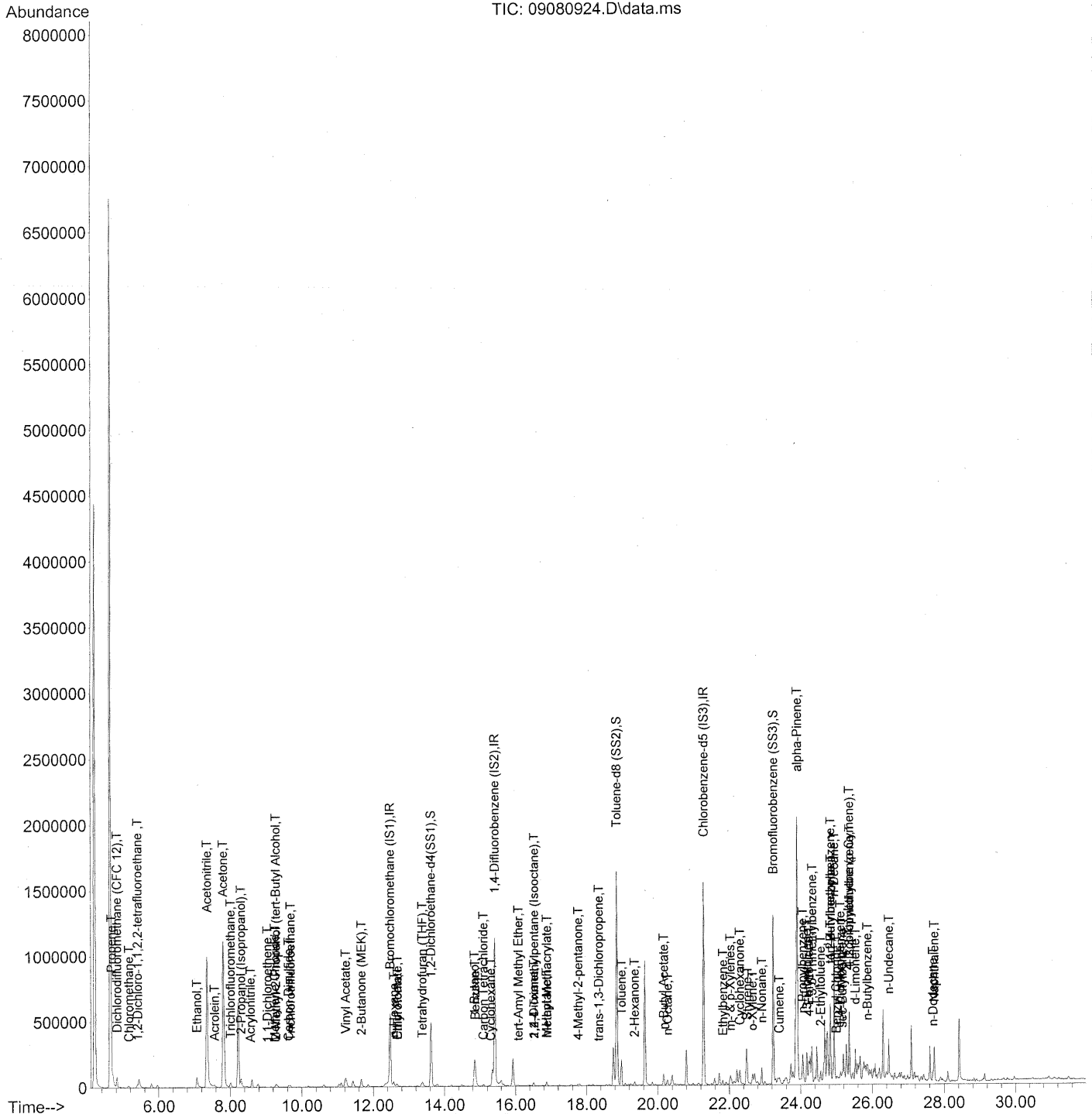
CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.73	0.62	0.16	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	ND	0.62	ND	0.14	
179601-23-1	m,p-Xylenes	1.5	0.62	0.34	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	1.7	0.62	0.40	0.14	
95-47-6	o-Xylene	0.64	0.62	0.15	0.14	
111-84-2	n-Nonane	2.1	0.62	0.40	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	32	0.62	5.7	0.11	
103-65-1	n-Propylbenzene	0.68	0.62	0.14	0.13	
622-96-8	4-Ethyltoluene	0.95	0.62	0.19	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.7	0.62	0.34	0.13	
95-63-6	1,2,4-Trimethylbenzene	5.7	0.62	1.2	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	3.2	0.62	0.58	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.083	
91-20-3	Naphthalene	3.4	0.62	0.64	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

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

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

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080924.D
Acq On : 9 Sep 2009 3:01 am
Operator : LM/CC
Sample : P0903081-002 (1000ml)
Misc : EH&E 104765
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 11 16:58:07 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01 am
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 11 16:58:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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09/11/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	256211	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1294687	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	633997	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	492285	24.246	ng	-0.03
Spiked Amount	25.000			Recovery =	97.00%	
57) Toluene-d8 (SS2)	18.84	98	1414656	24.968	ng	-0.02
Spiked Amount	25.000			Recovery =	99.88%	
73) Bromofluorobenzene (SS3)	23.23	174	426861	26.177	ng	0.00
Spiked Amount	25.000			Recovery =	104.72%	

Target Compounds

						Qvalue
2) Propene	4.67	42	17904	0.966 ng		99
3) Dichlorodifluoromethan...	4.82	85	75725	2.334 ng		100
4) Chloromethane	5.16	50	10267	0.471 ng	← RL	92
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1398	0.104 ng	#	56
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	476	N.D.		
8) Bromomethane	6.35	94	434	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.07	45	169056	14.711 ng		96
11) Acetonitrile	7.35	41	1638104	51.318 ng		99
12) Acrolein	7.56	56	17441	1.988 ng		98
13) Acetone	7.80	58	660226	55.553 ng		95
14) Trichlorofluoromethane	8.01	101	34045	1.190 ng		97
15) 2-Propanol (Isopropanol)	8.30	45	140041	3.544 ng		97
16) Acrylonitrile	8.56	53	2870	0.146 ng	#	72
17) 1,1-Dichloroethene	9.03	96	720	0.052 ng	#	1
18) 2-Methyl-2-Propanol (t...	9.27	59	11337	0.287 ng	#	1
19) Methylene Chloride	9.25	84	2966	0.197 ng		86
20) 3-Chloro-1-propene (Al...	0.00	41	0	N.D. d		
21) Trichlorotrifluoroethane	9.68	151	6151	0.543 ng		94
22) Carbon Disulfide	9.63	76	30958	0.577 ng		99
23) trans-1,2-Dichloroethene	10.67	61	87	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.10	73	86	N.D.		
26) Vinyl Acetate	11.23	86	15215	5.109 ng	#	52
27) 2-Butanone (MEK)	11.67	72	27788	2.895 ng		95
28) cis-1,2-Dichloroethene	12.38	61	145	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.67	61	3683	0.714 ng		93
31) n-Hexane	12.58	57	19380	0.754 ng		98

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Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01 am
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
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Quant Time: Sep 11 16:58:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	3292	0.130 ng		99
34) Tetrahydrofuran (THF)	13.38	72	11591	1.113 ng	#	75
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	1017	N.D.		
38) 1,1,1-Trichloroethane	14.16	97	1182	N.D.		
39) Isopropyl Acetate	14.83	61	179	N.D.		
40) 1-Butanol	14.84	56	196488	12.193 ng	#	39
41) Benzene	14.87	78	35343	0.581 ng		100
42) Carbon Tetrachloride	15.09	117	9833	0.481 ng		99
43) Cyclohexane	15.29	84	3794	0.169 ng		92
44) tert-Amyl Methyl Ether	16.07	73	2744	0.061 ng	#	46
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.39	83	109	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.51	88	782	0.067 ng	#	1
49) 2,2,4-Trimethylpentane...	16.52	57	25318	0.366 ng		85
50) Methyl Methacrylate	16.88	100	2539	0.450 ng	#	1
51) n-Heptane	16.88	71	9284	0.589 ng		93
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.76	58	2993	0.215 ng		97
54) trans-1,3-Dichloropropene	18.34	75	1776	0.076 ng	#	53
55) 1,1,2-Trichloroethane	18.56	97	478	N.D.		
58) Toluene	18.98	91	151654	2.485 ng		99
59) 2-Hexanone	19.35	43	27337	0.733 ng		97
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	19.86	107	384	N.D.		
62) n-Butyl Acetate	20.16	43	77808	1.818 ng		95
63) n-Octane	20.27	57	8365	0.596 ng		97
64) Tetrachloroethene	20.46	166	556	N.D.		
65) Chlorobenzene	21.34	112	785	N.D.		
66) Ethylbenzene	21.82	91	29834	0.427 ng		99
67) m- & p-Xylenes	22.03	91	67609	1.217 ng		100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	56652	1.385 ng		98
70) o-Xylene	22.65	91	29049	0.520 ng		98
71) n-Nonane	22.91	43	57042	1.701 ng		98
72) 1,1,2,2-Tetrachloroethane	22.65	83	332	N.D.		
74) Cumene	23.40	105	12152	0.172 ng		98
75) alpha-Pinene	23.90	93	944130	25.730 ng		87
76) n-Propylbenzene	24.05	91	49762	0.554 ng	#	68
77) 3-Ethyltoluene	24.17	105	108307	1.600 ng		100
78) 4-Ethyltoluene	24.22	105	51612	0.773 ng		99
79) 1,3,5-Trimethylbenzene	24.31	105	74929	1.348 ng		100

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01 am
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 11 16:58:07 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

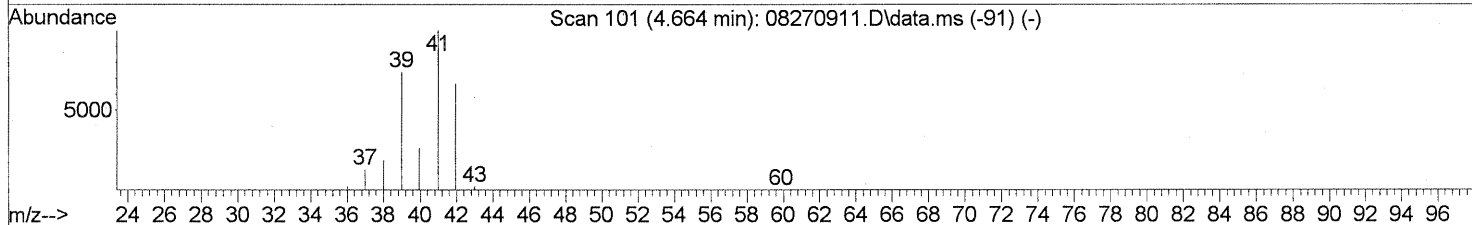
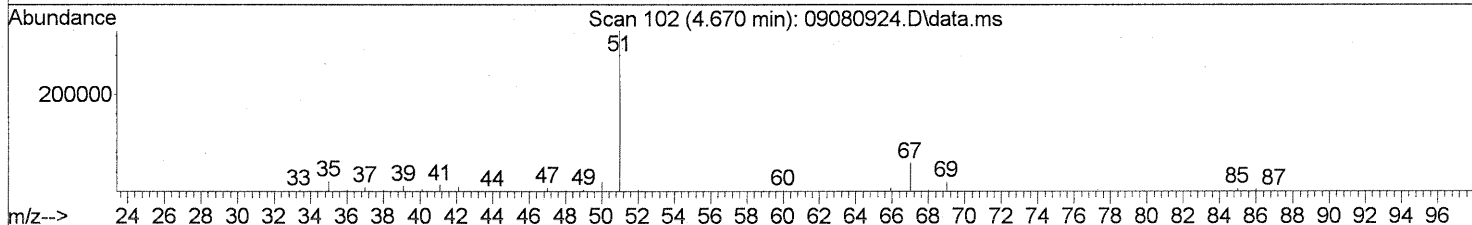
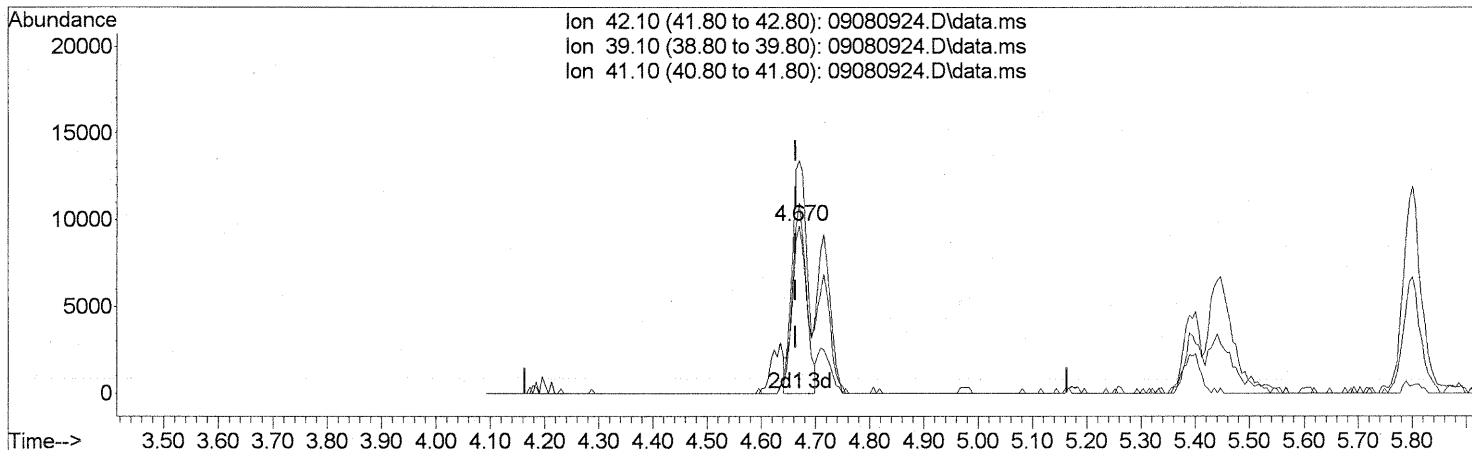
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.50	118	928	N.D.		
81) 2-Ethyltoluene	24.55	105	55444	0.798 ng		99
82) 1,2,4-Trimethylbenzene	24.82	105	262713	4.629 ng		90
83) n-Decane	24.93	57	382623	11.293 ng		96
84) Benzyl Chloride	24.99	91	3848	0.068 ng		70
85) 1,3-Dichlorobenzene	25.01	146	270	N.D.		
86) 1,4-Dichlorobenzene	25.10	146	2695	0.084 ng		98
87) sec-Butylbenzene	25.16	105	28039	0.362 ng		91
88) 4-Isopropyltoluene (p-...	25.35	119	62912	0.900 ng		88
89) 1,2,3-Trimethylbenzene	25.35	105	99280	1.669 ng		95
90) 1,2-Dichlorobenzene	25.51	146	284	N.D.		
91) d-Limonene	25.52	68	59754	2.638 ng		93
92) 1,2-Dibromo-3-Chloropr...	26.46	157	428	N.D.		
93) n-Undecane	26.46	57	102428	2.912 ng		85
94) 1,2,4-Trichlorobenzene	27.58	180	765	N.D.		
95) Naphthalene	27.72	128	214178	2.731 ng		100
96) n-Dodecane	27.69	57	22117	0.552 ng		76
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	63326	2.691 ng		93
99) tert-Butylbenzene	24.83	119	31516	-0.573 ng	#	56
100) n-Butylbenzene	25.86	91	37580	0.595 ng	#	61

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(2) Propene (T)
 4.670min (+0.006) 0.97ng
 response 17904

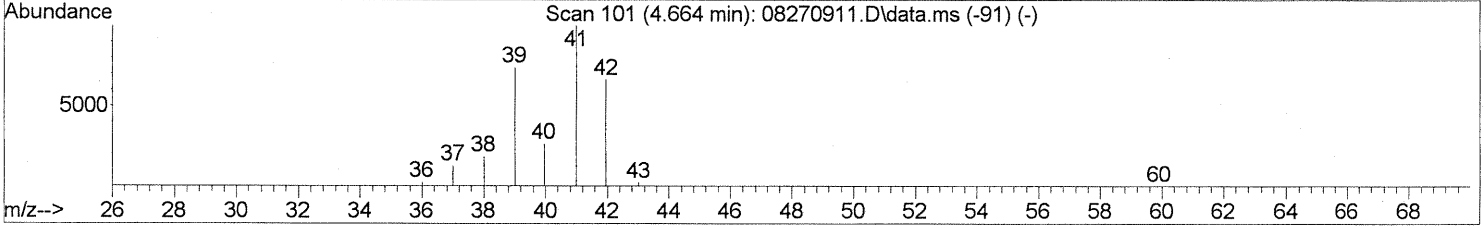
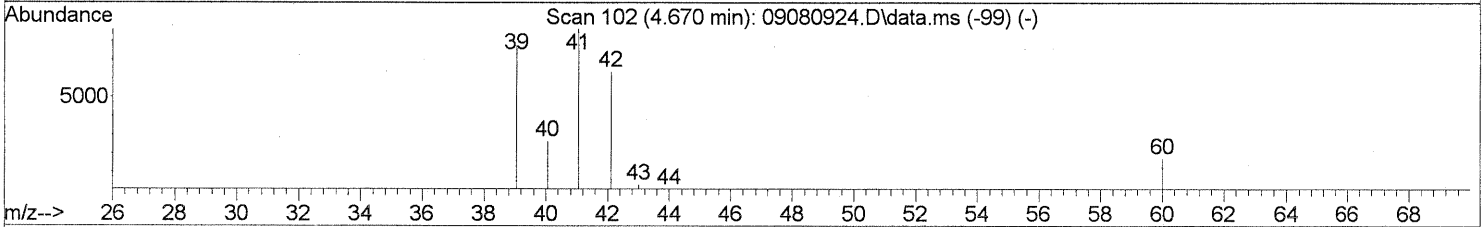
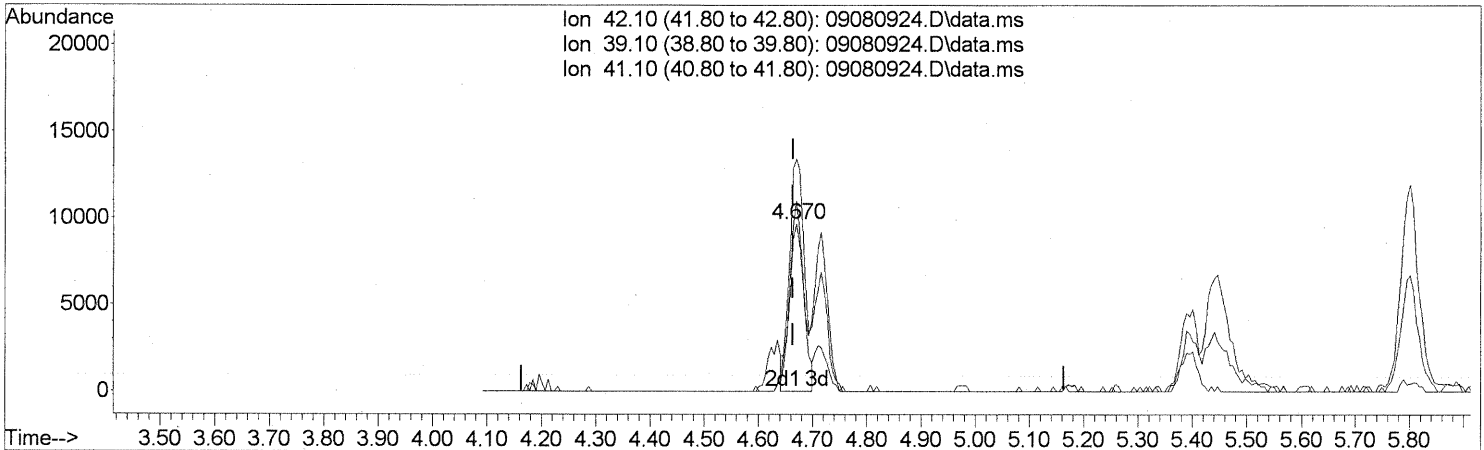
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	108.42
41.10	149.80	149.61
0.00	0.00	0.00

Before subh.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(2) Propene (T)
 4.670min (+0.006) 0.97ng
 response 17904

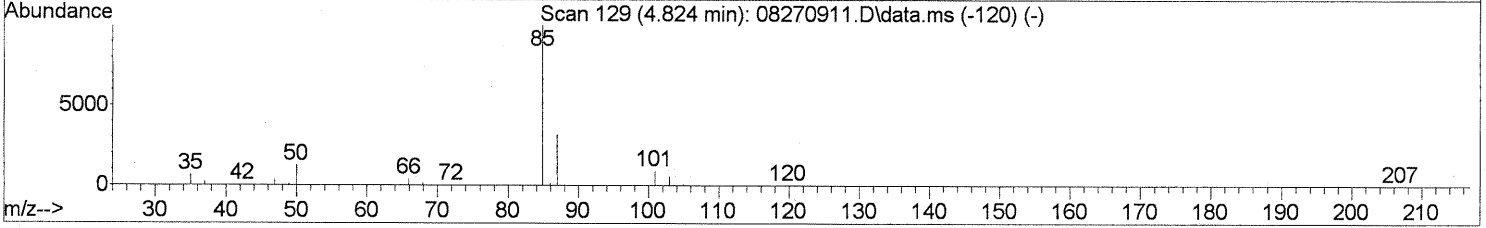
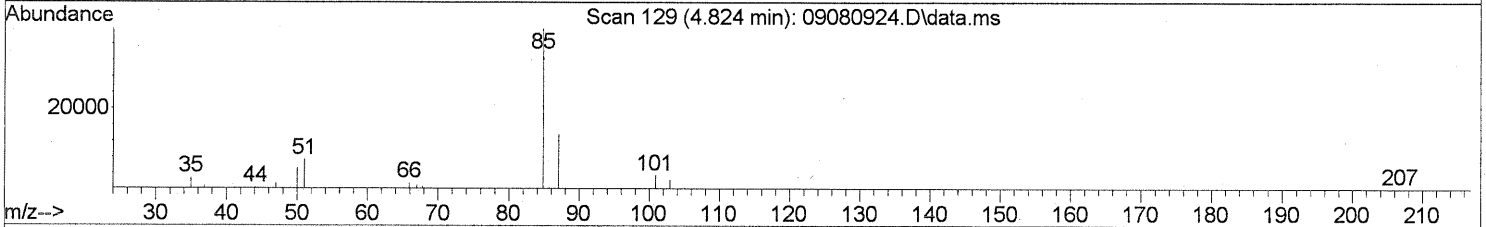
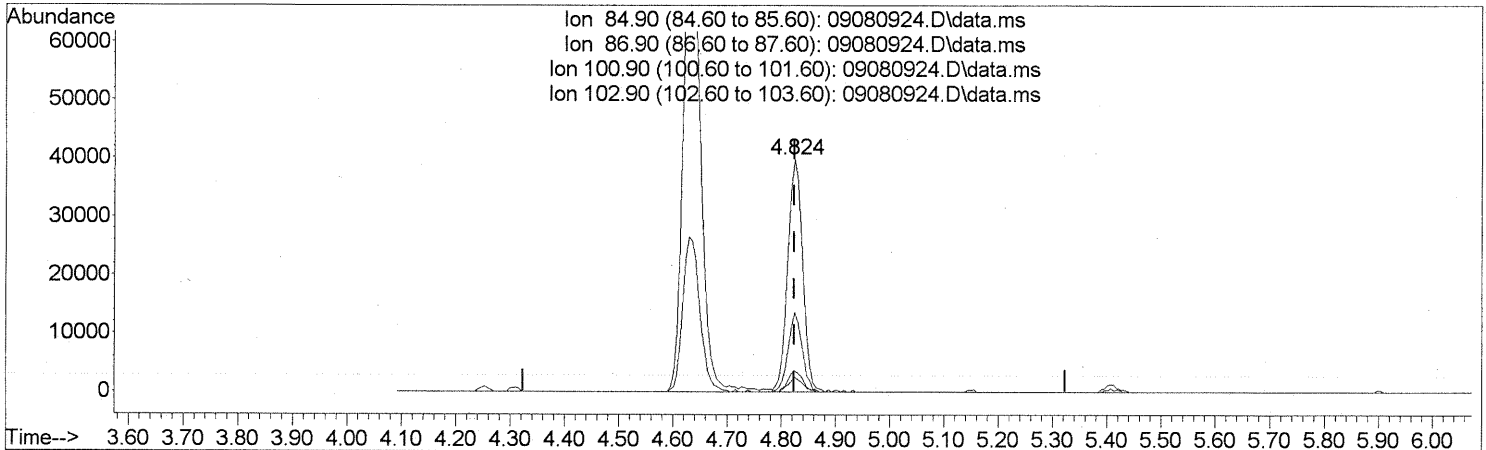
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	108.42
41.10	149.80	149.61
0.00	0.00	0.00

After subtr.
 LM 9/12/09
 LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.824min (+0.000) 2.33ng

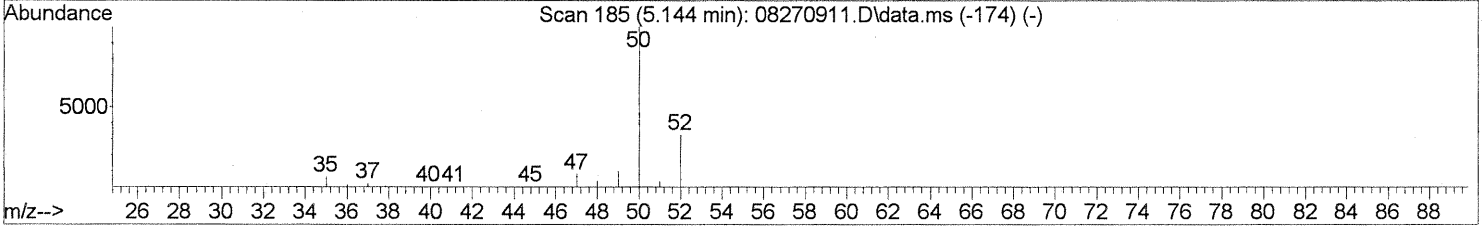
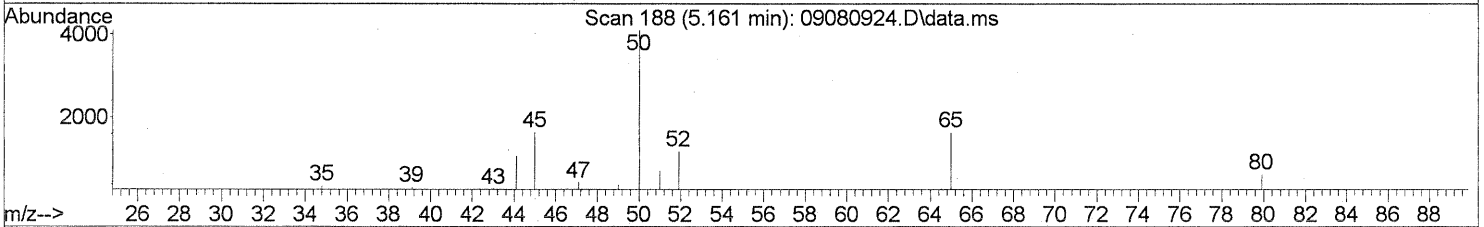
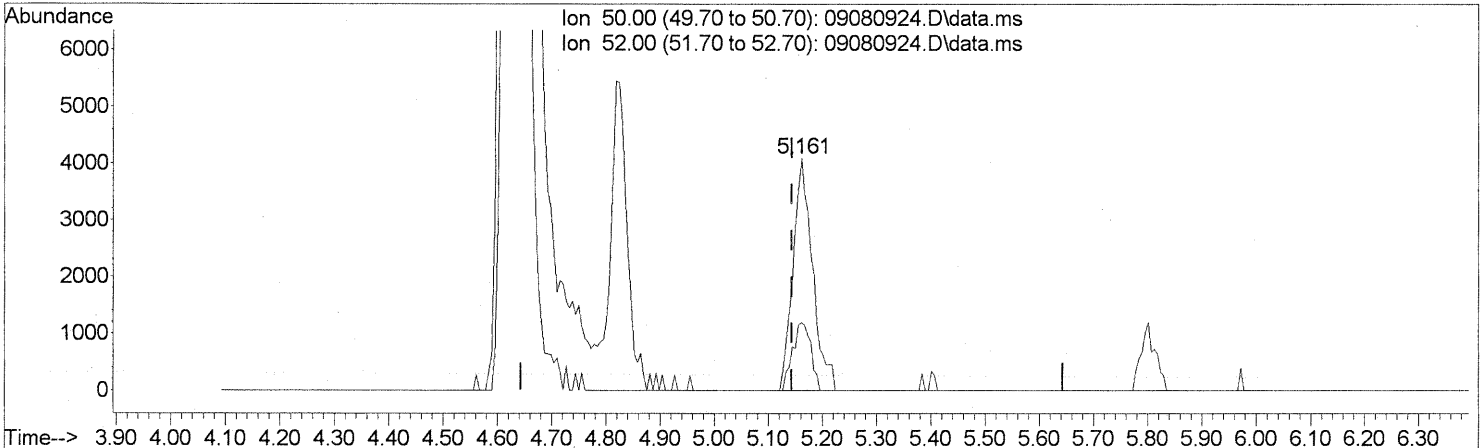
response 75725

ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.13
100.90	8.80	8.78
102.90	5.60	5.83

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

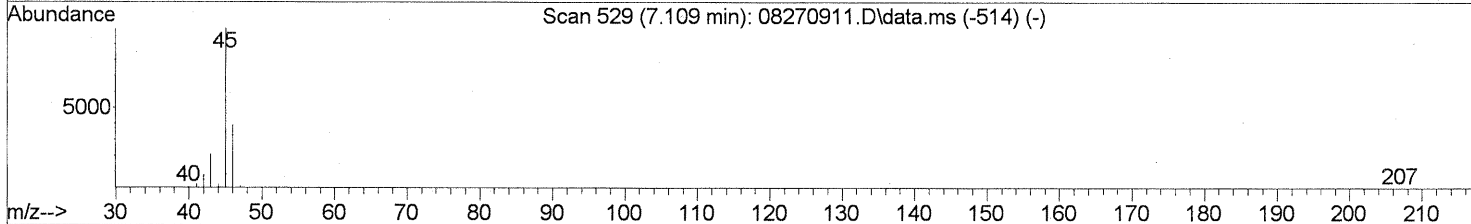
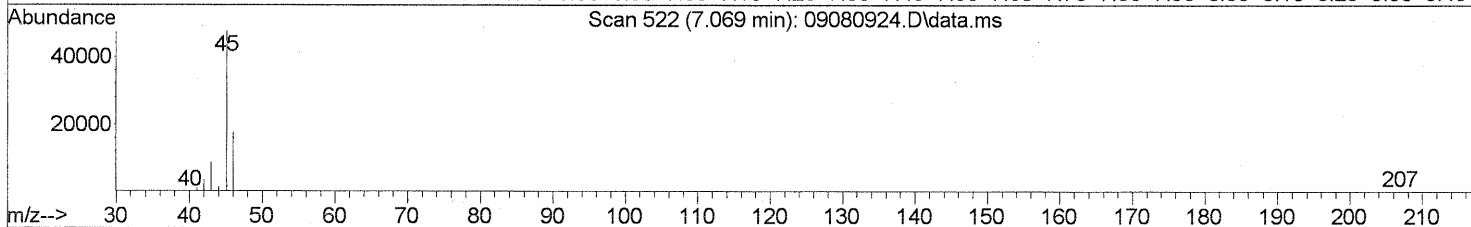
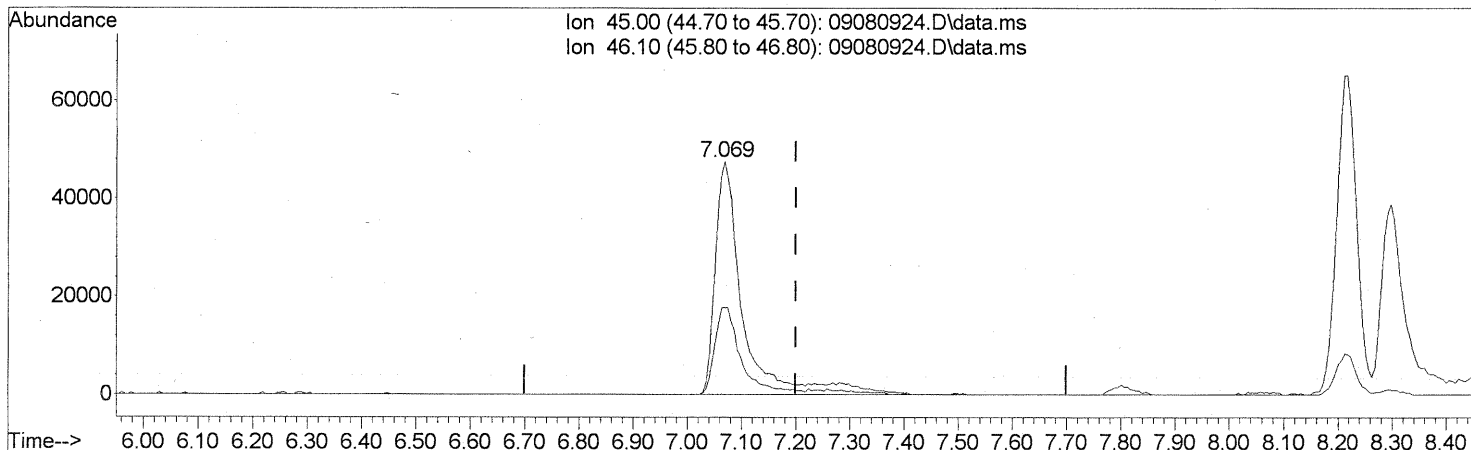
(4) Chloromethane (T)
 5.161min (+0.017) 0.47ng
 response 10267

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	27.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

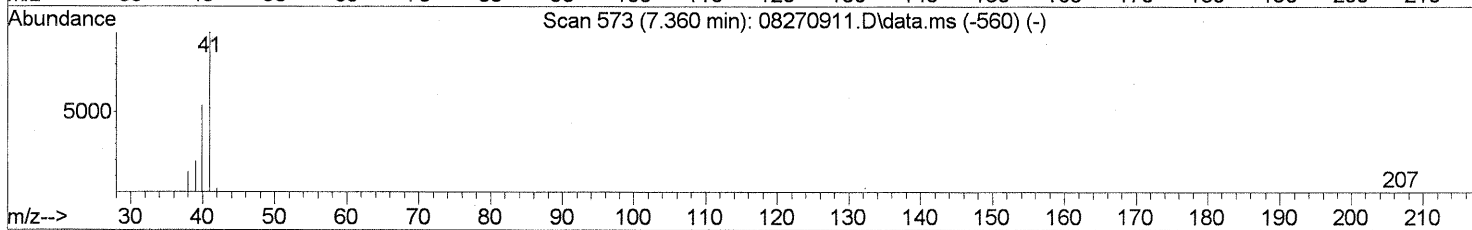
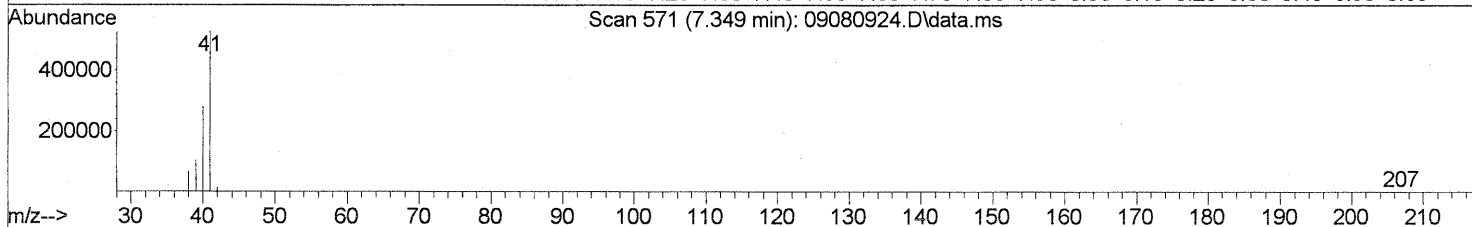
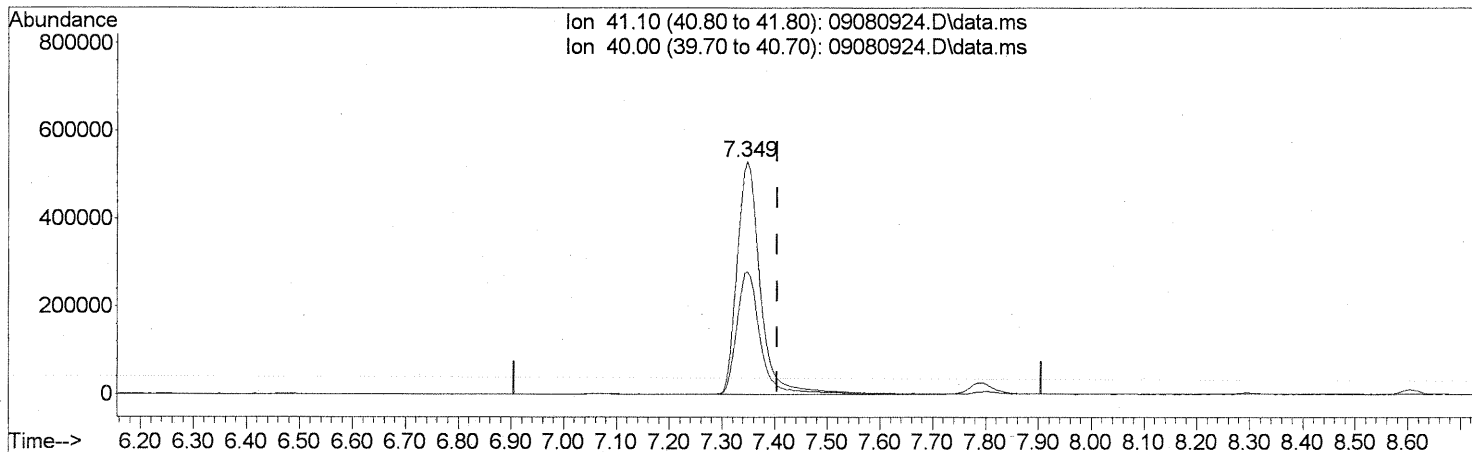
(10) Ethanol (T)
 7.069min (-0.131) 14.71ng
 response 169056

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	35.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

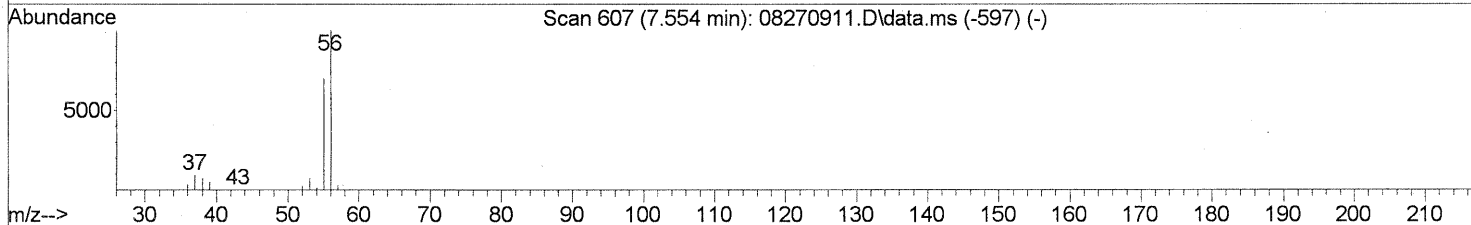
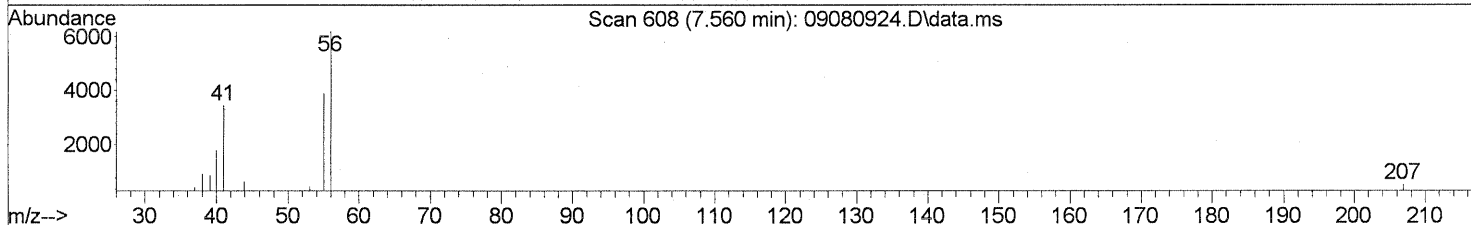
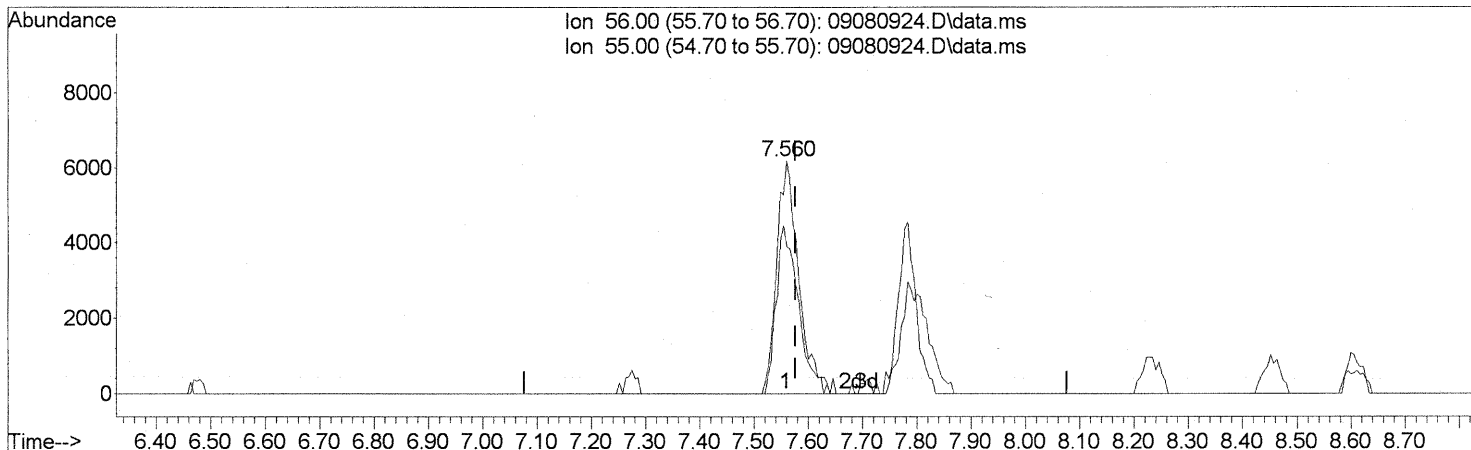
(11) Acetonitrile (T)
 7.349min (-0.057) 51.32ng
 response 1638104

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

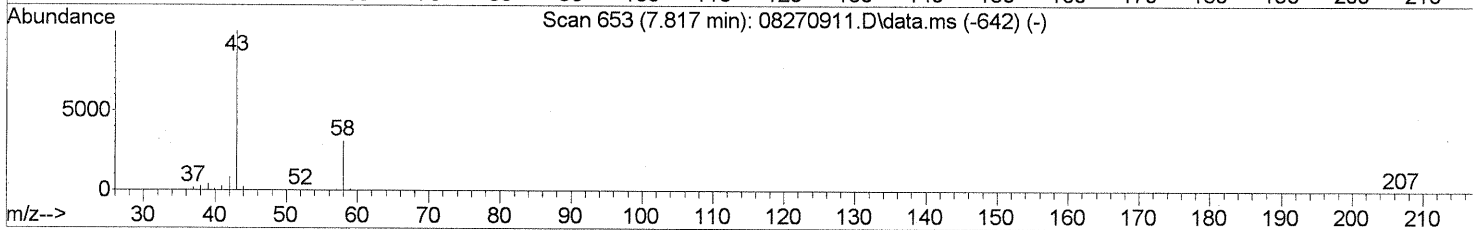
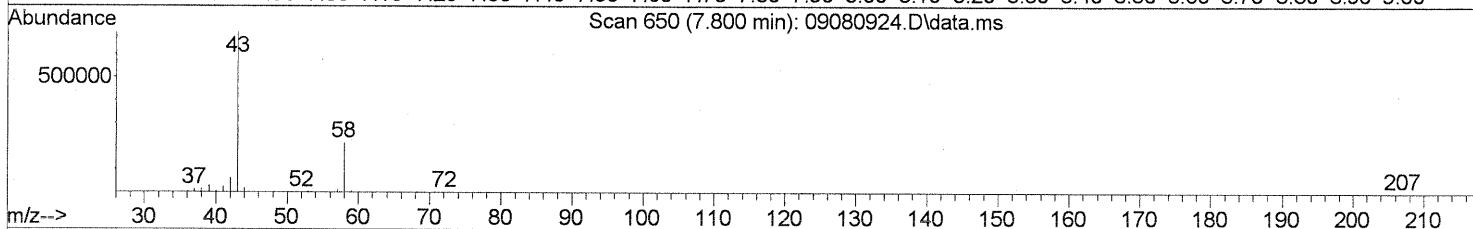
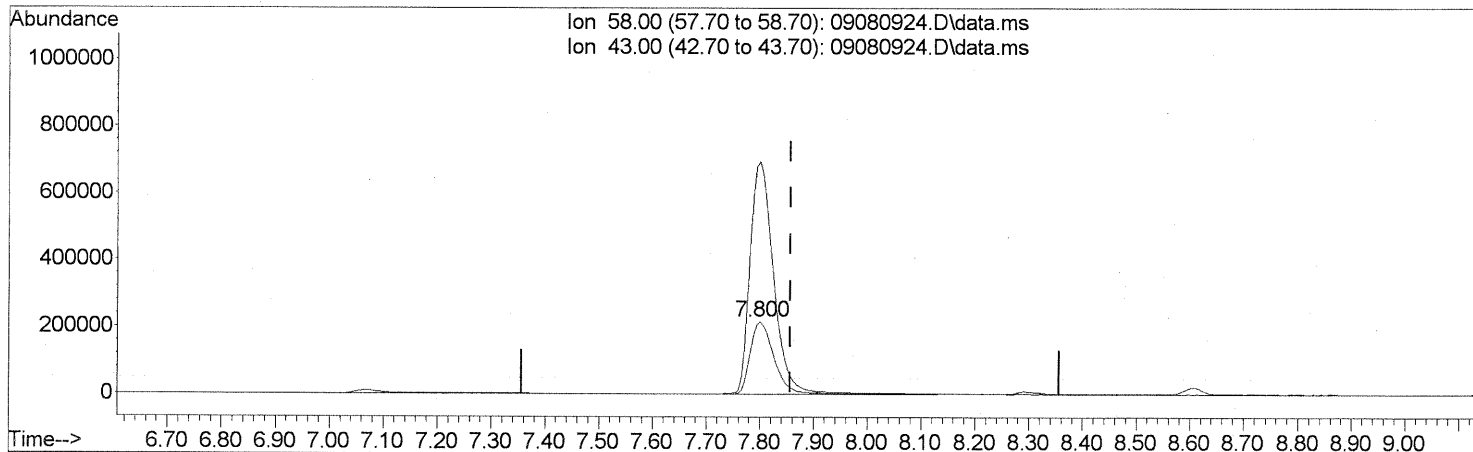
(12) Acrolein (T)
 7.560min (-0.017) 1.99ng
 response 17441

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	72.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

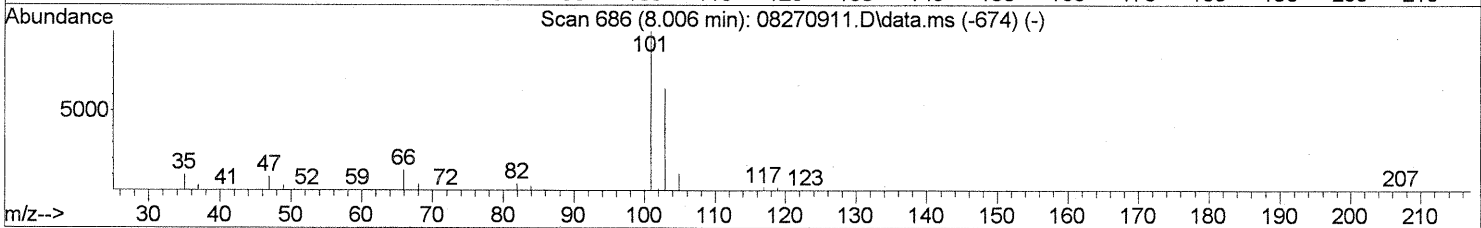
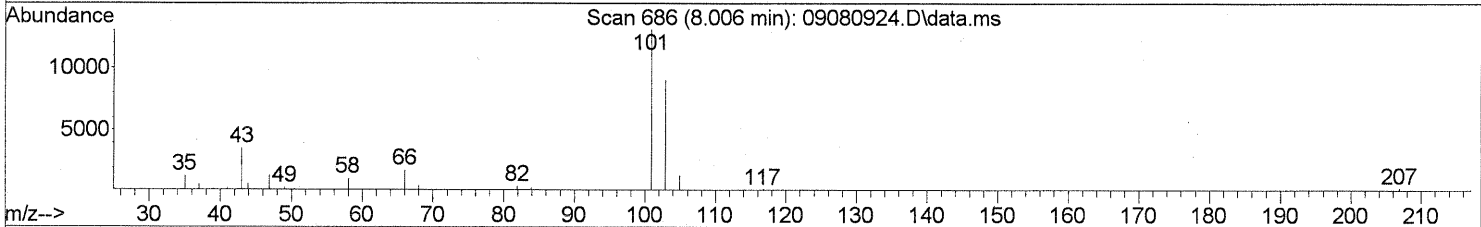
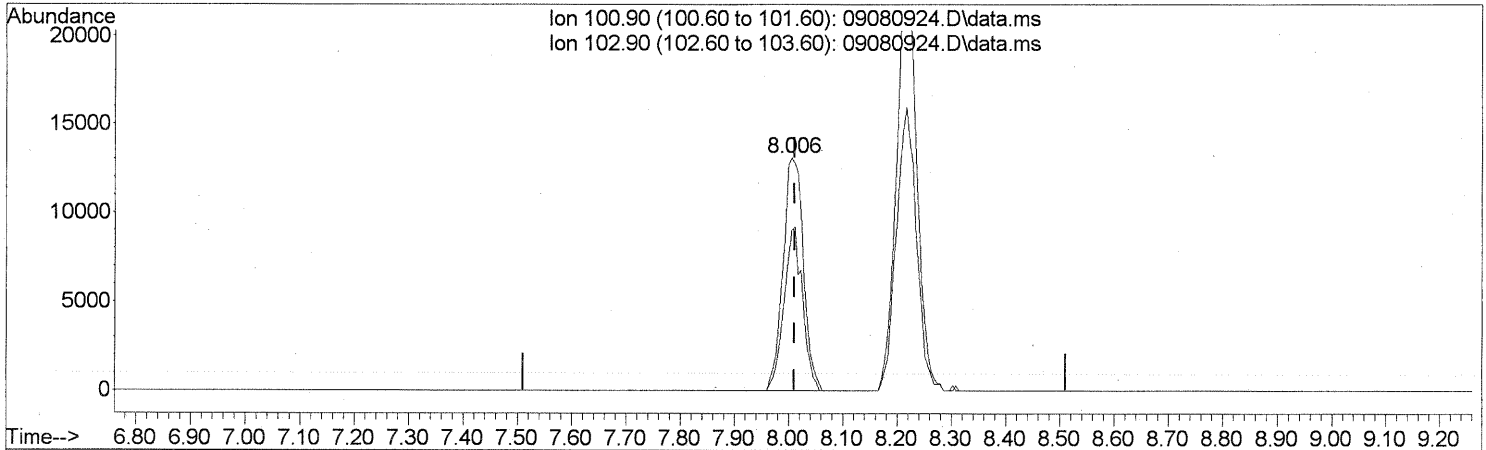
(13) Acetone (T)
 7.800min (-0.057) 55.55ng
 response 660226

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	321.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(14) Trichlorofluoromethane (T)

8.006min (-0.006) 1.19ng

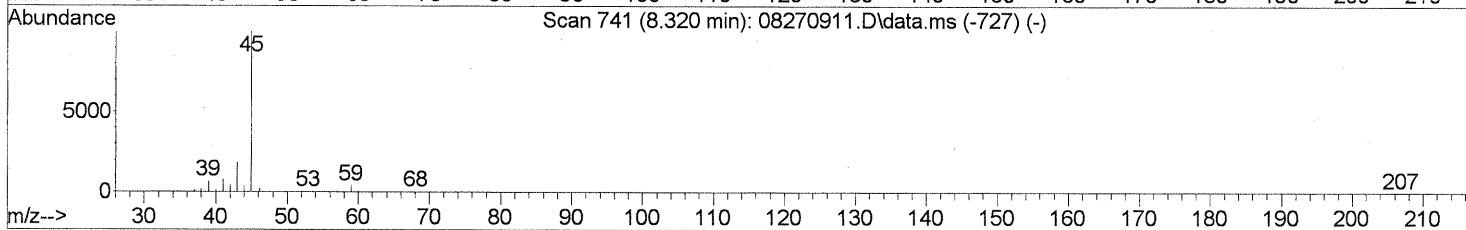
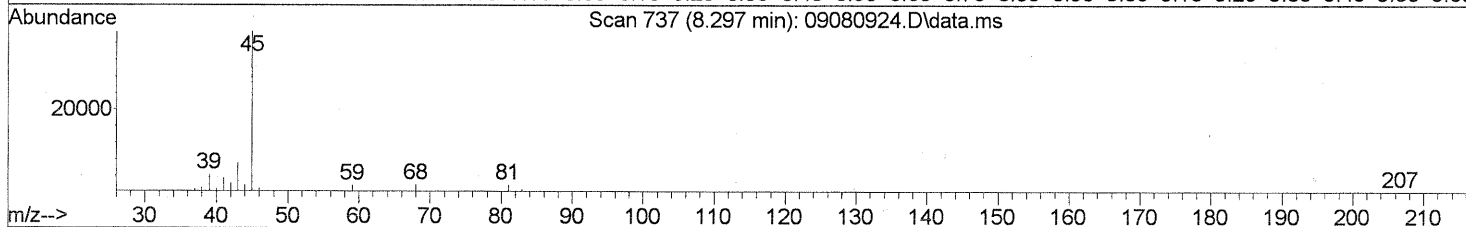
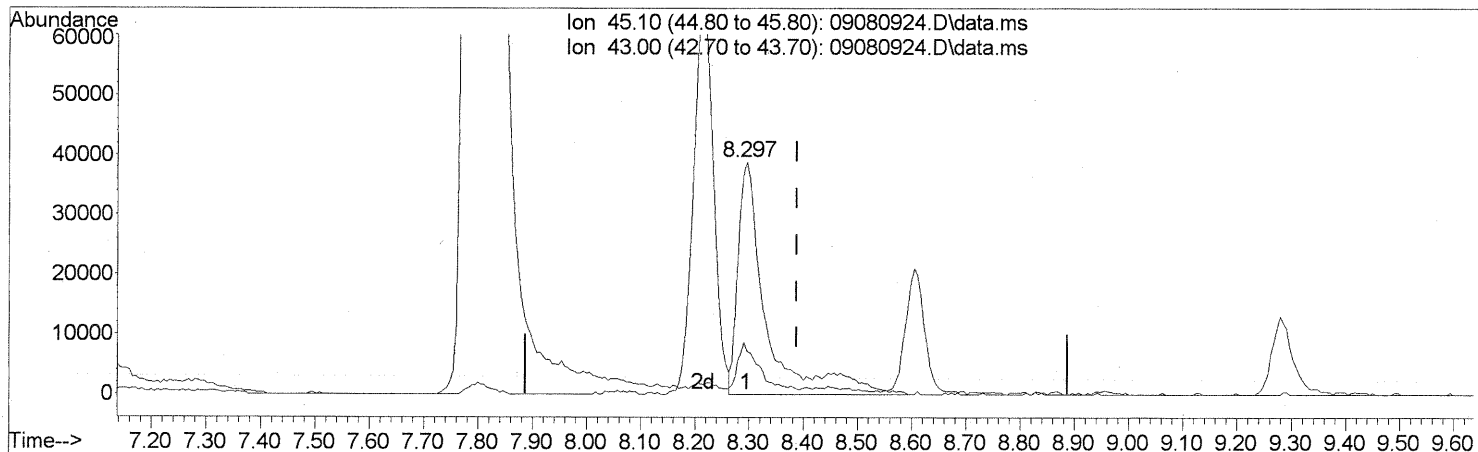
response 34045

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	63.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

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

8.297min (-0.091) 3.54ng

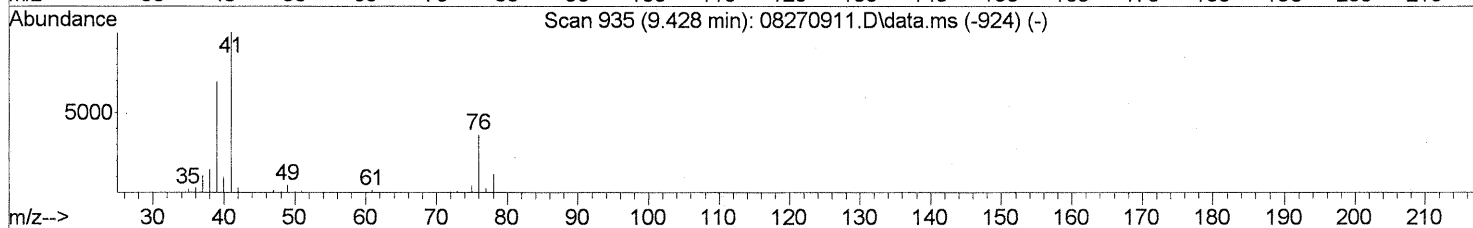
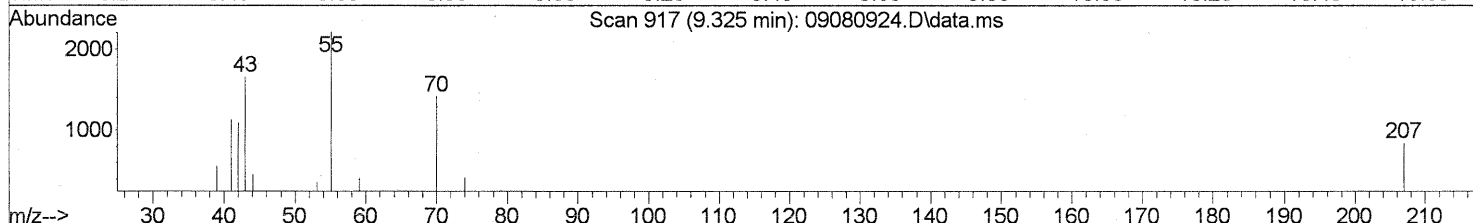
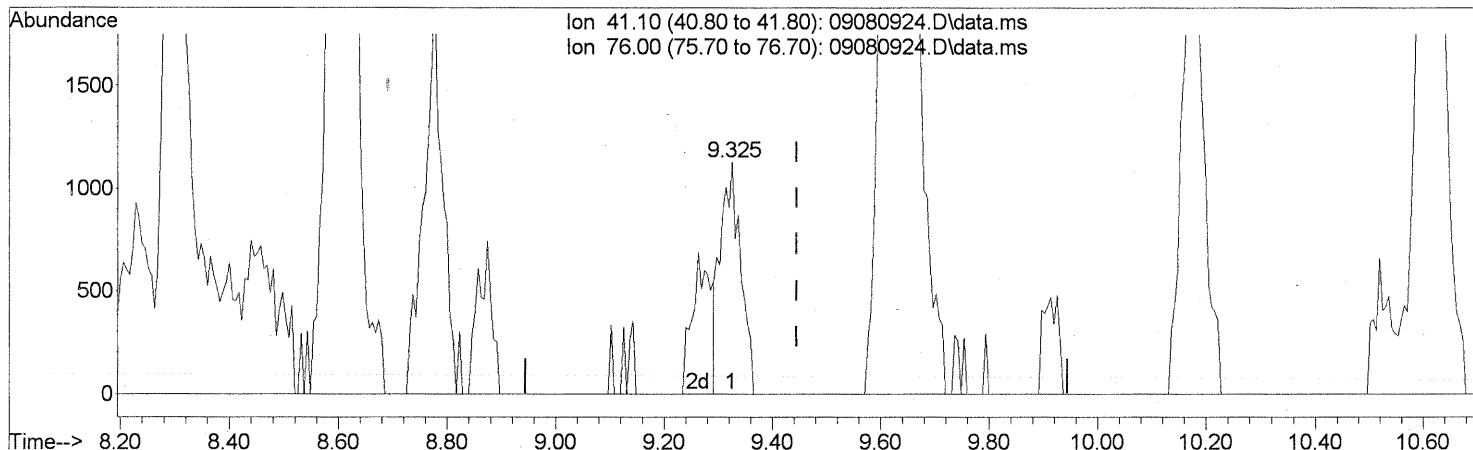
response 140041

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	19.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

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

9.325min (-0.120) 0.12ng

response 2907

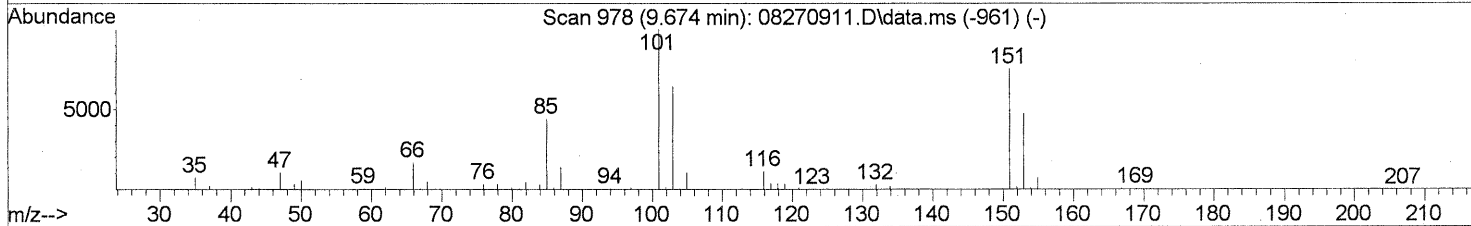
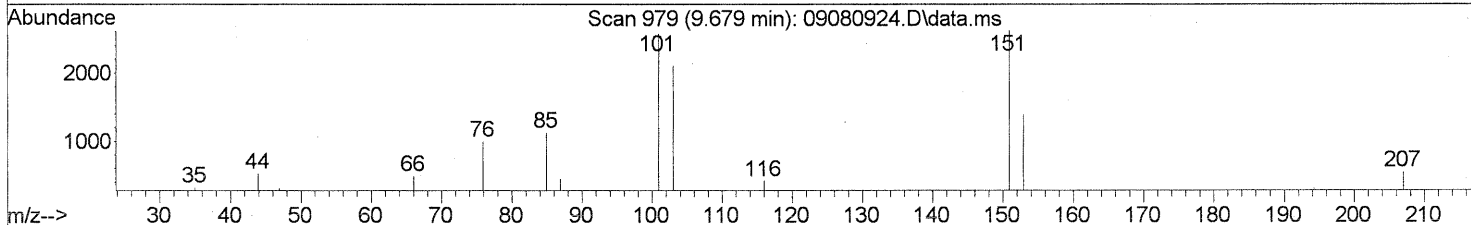
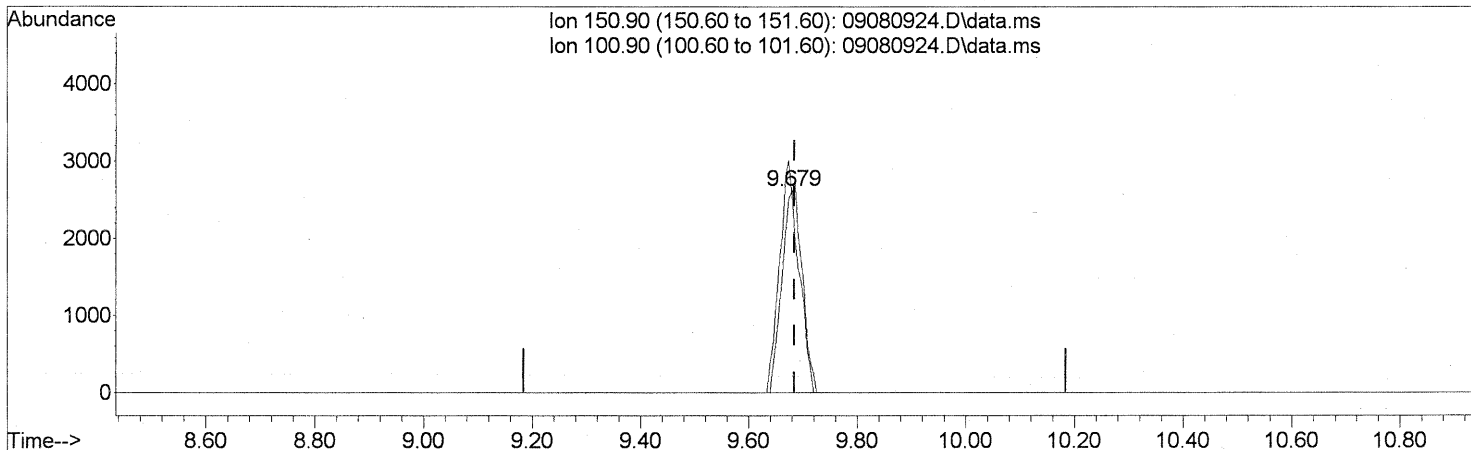
Ion	Exp%	Act%
41.10	100	100
76.00	33.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

FP
UM 9/12/09
UM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.54ng

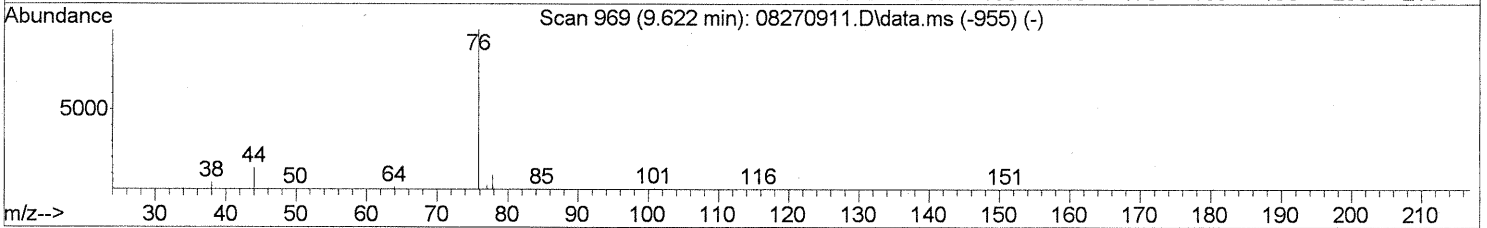
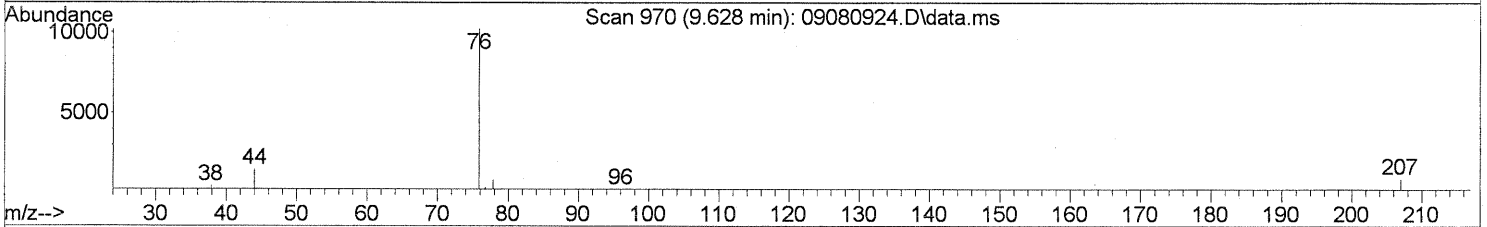
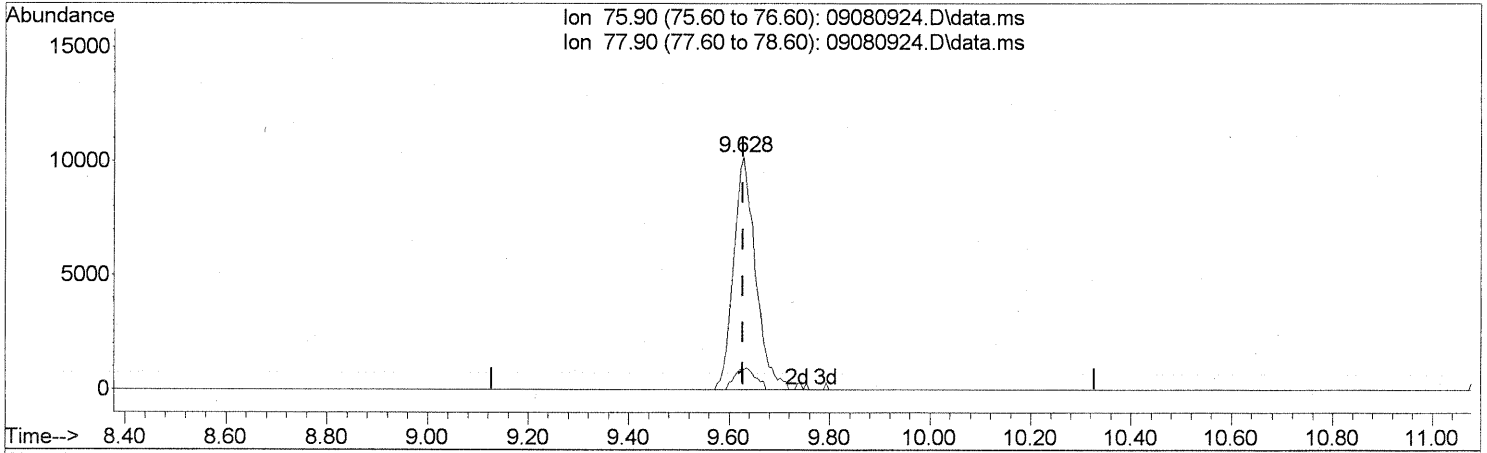
response 6151

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	130.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

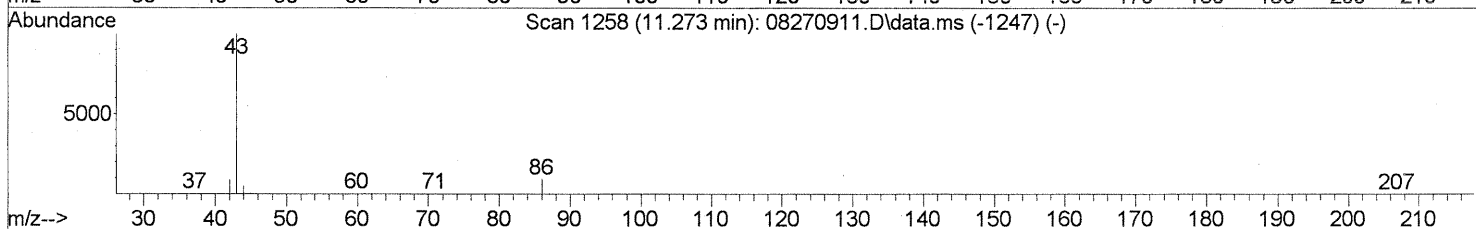
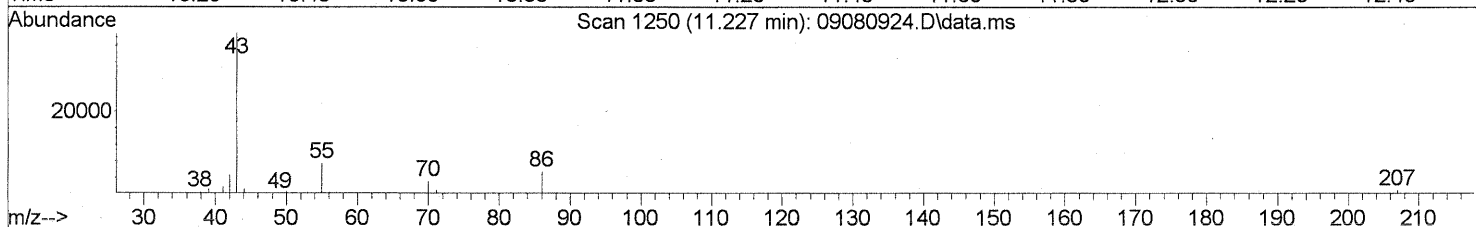
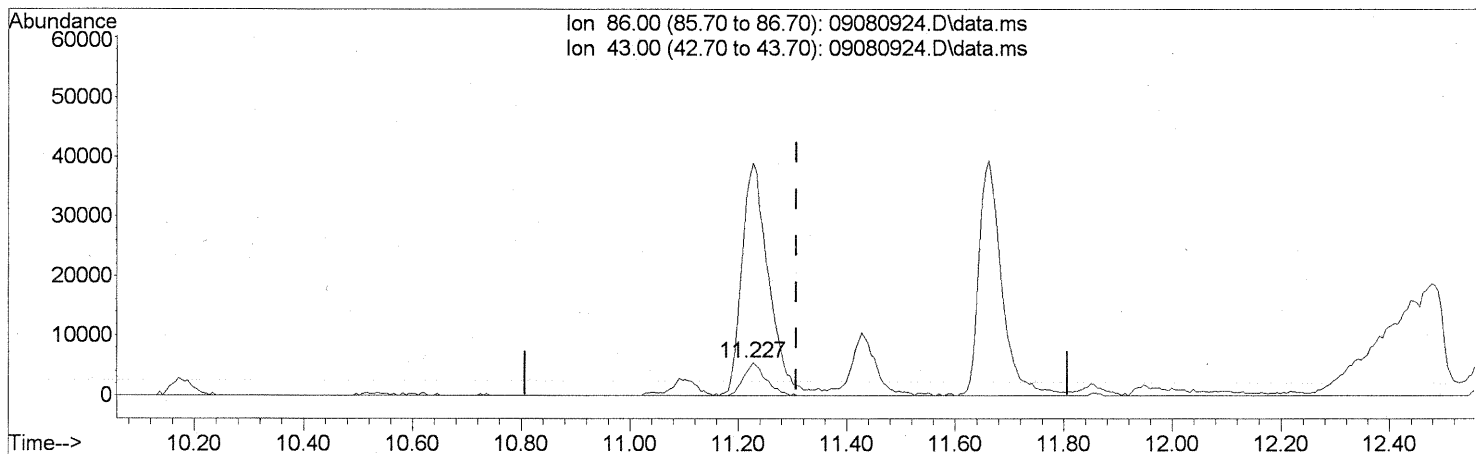
(22) Carbon Disulfide (T)
 9.628min (+0.000) 0.58ng
 response 30958

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

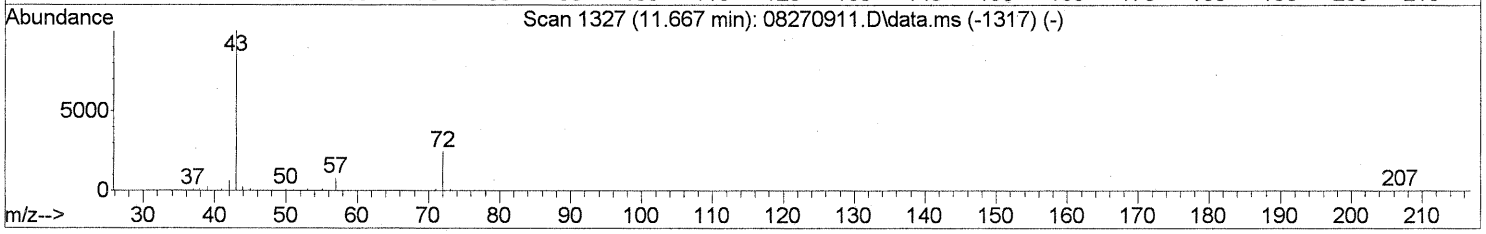
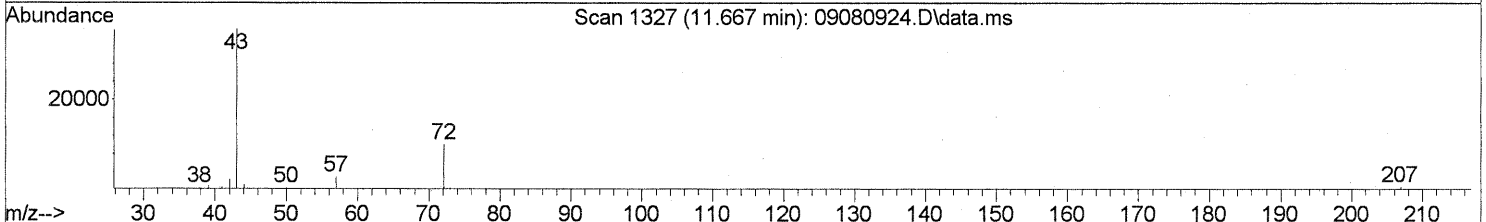
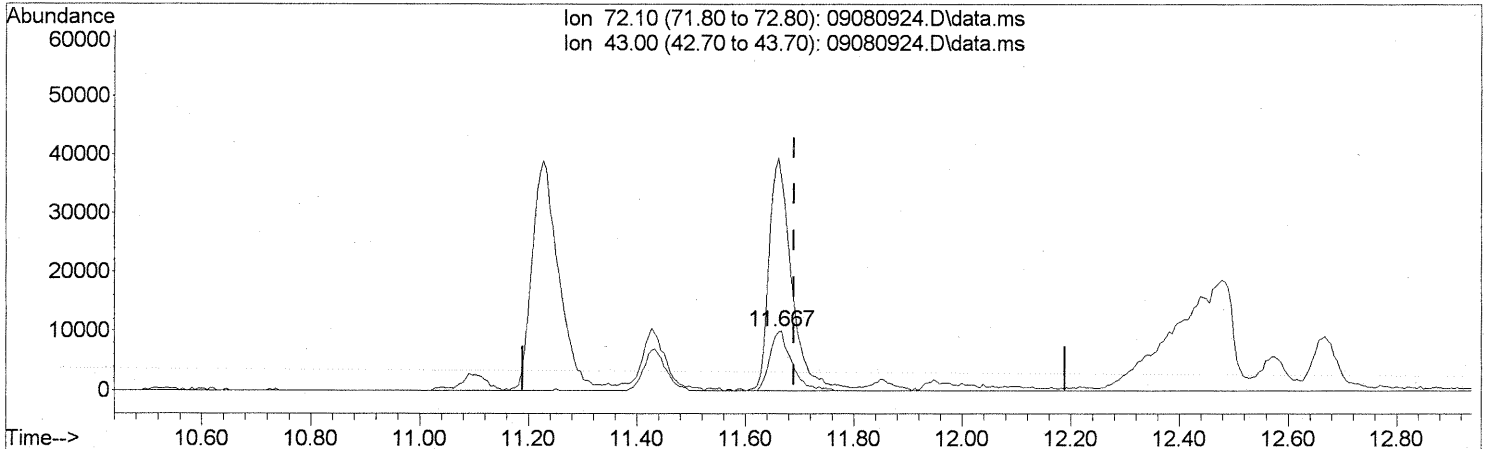
(26) Vinyl Acetate (T)
 11.227min (-0.080) 5.11ng
 response 15215

Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	888.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

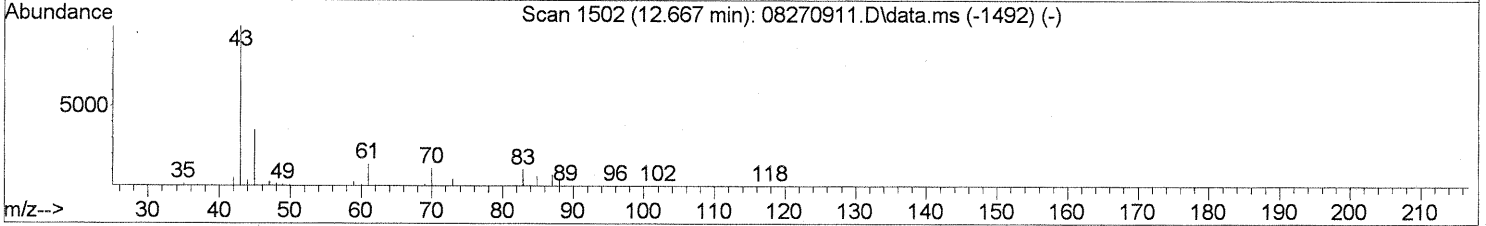
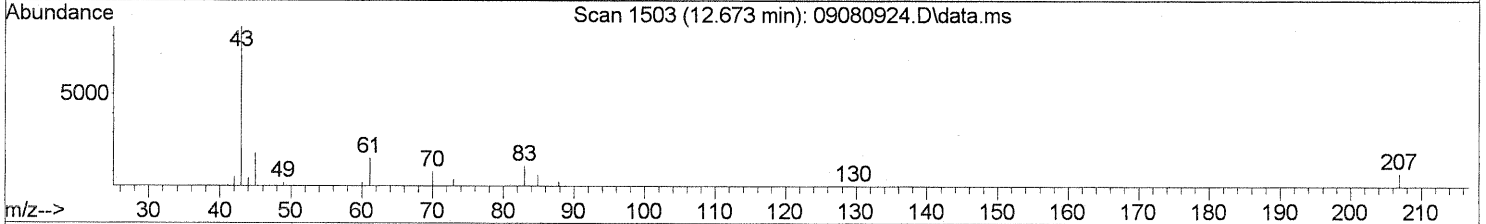
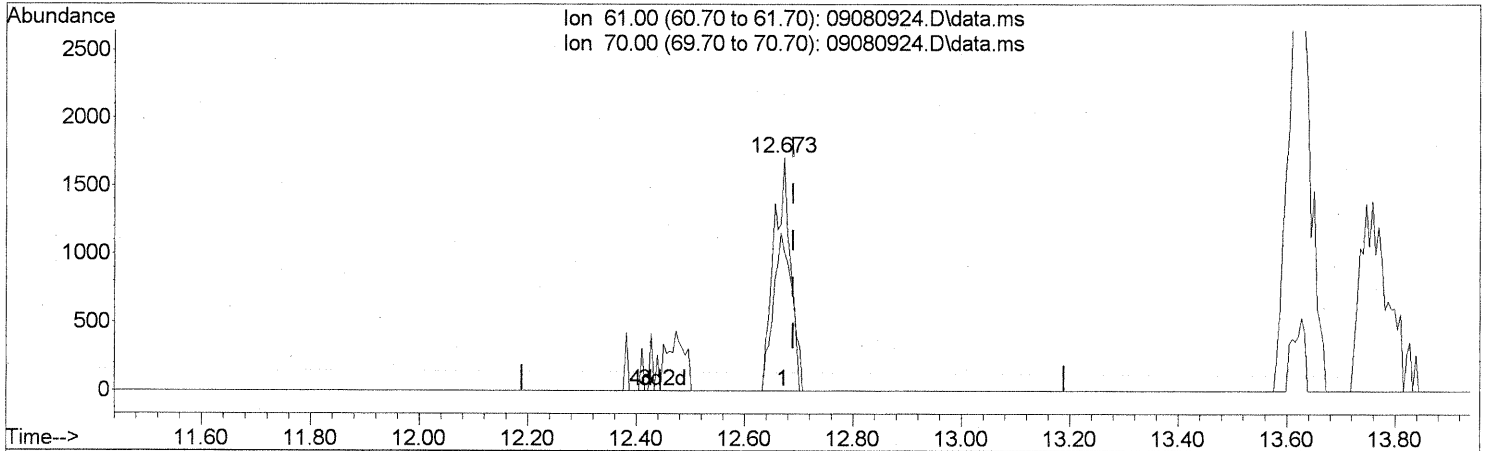
(27) 2-Butanone (MEK) (T)
 11.667min (-0.023) 2.89ng
 response 27788

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	412.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

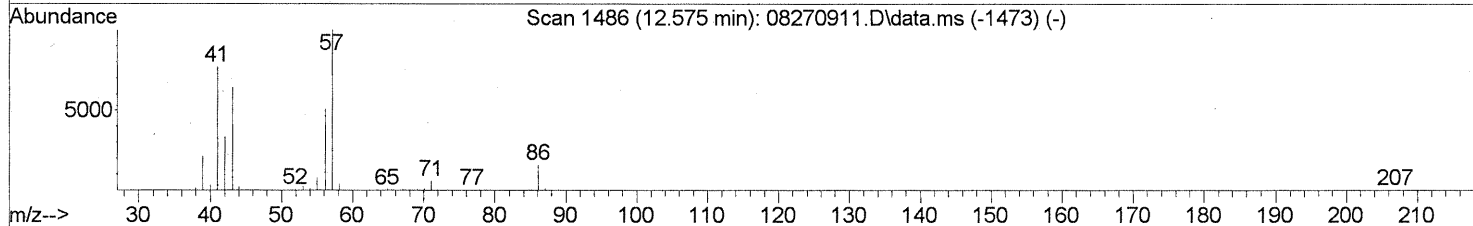
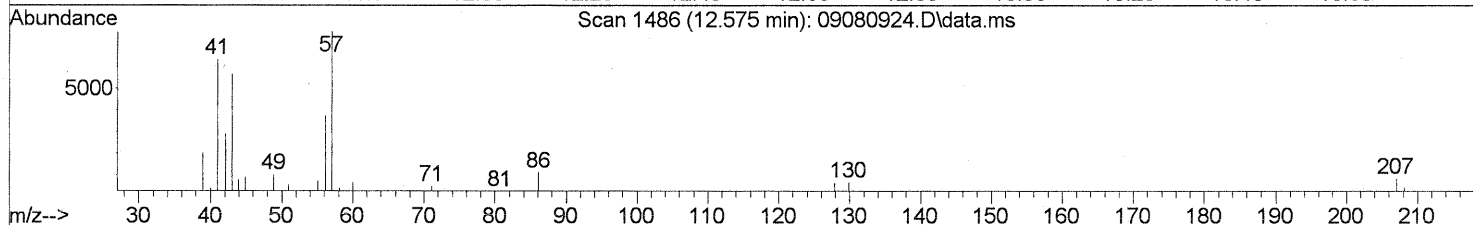
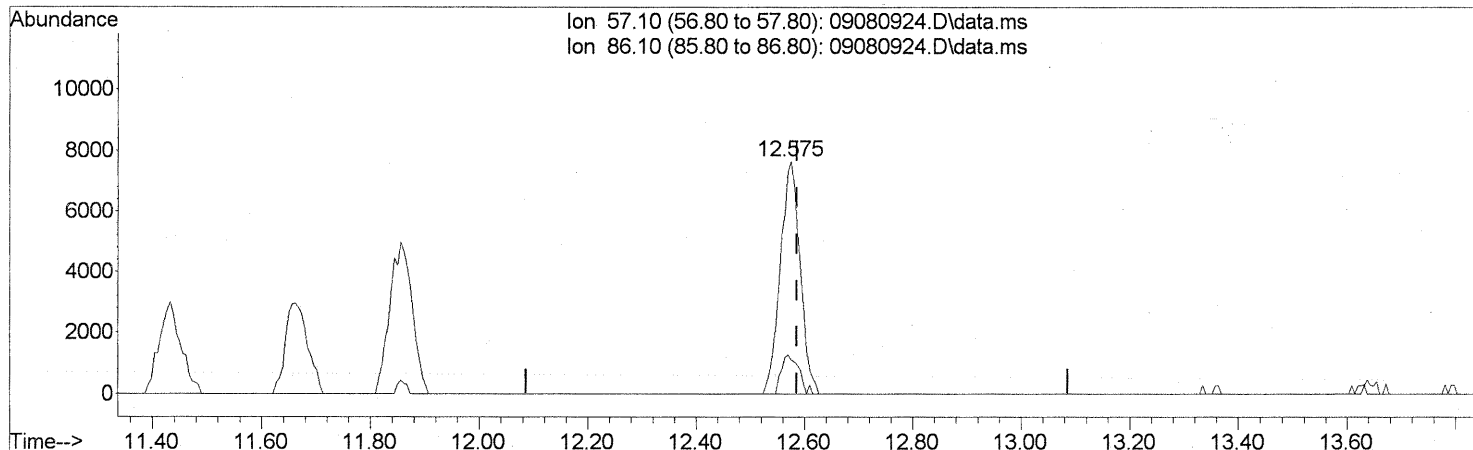
(30) Ethyl Acetate (T)
 12.673min (-0.017) 0.71ng
 response 3683

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	72.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

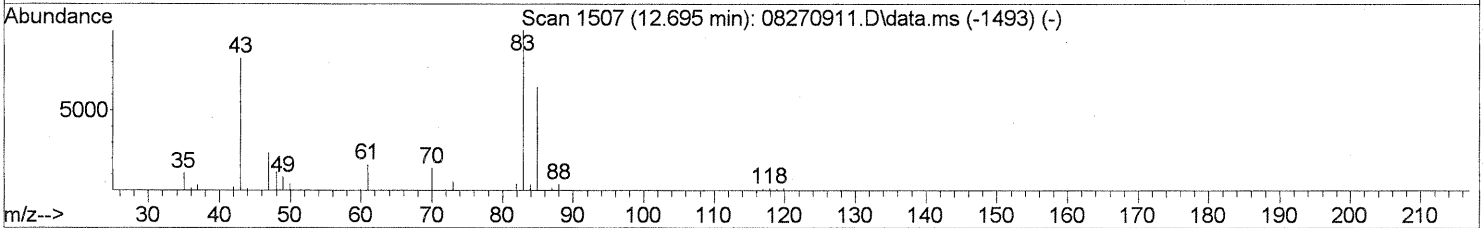
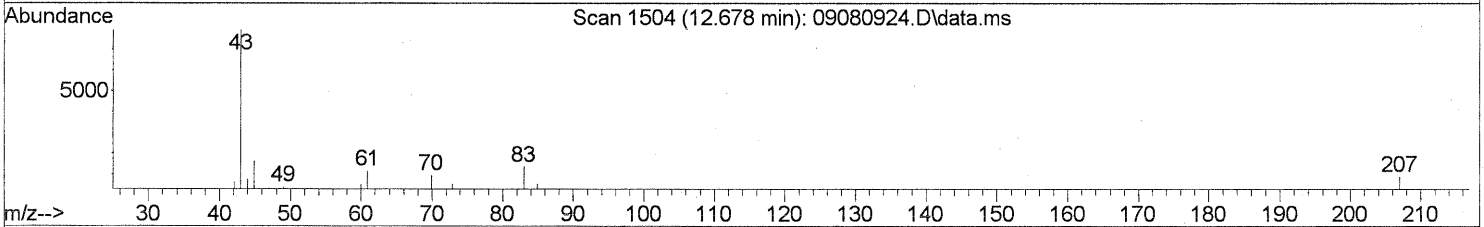
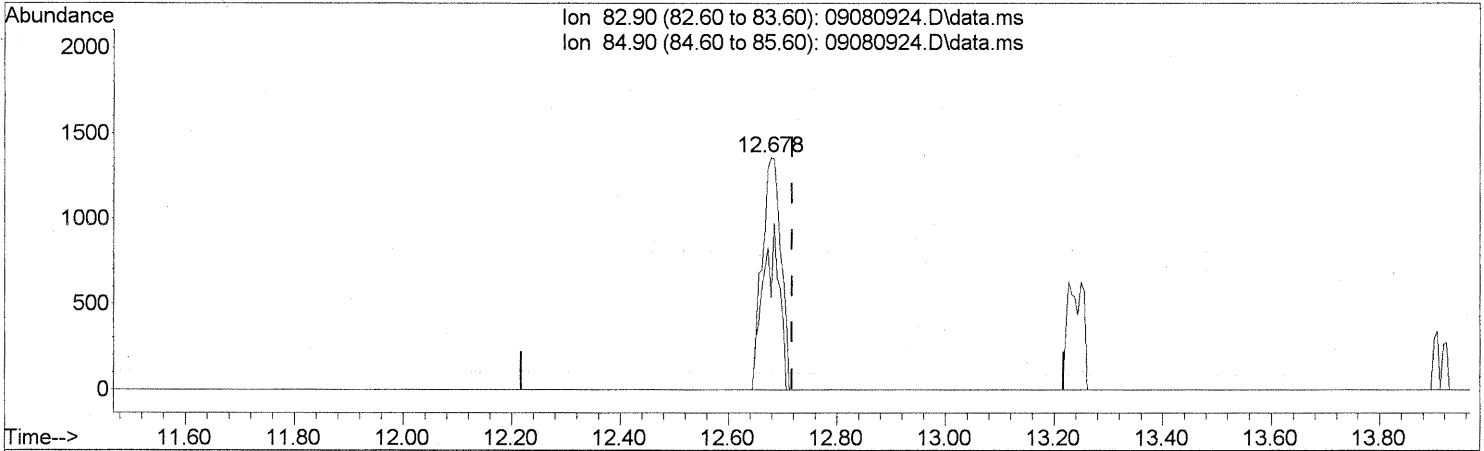
(31) n-Hexane (T)
 12.575min (-0.011) 0.75ng
 response 19380

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	14.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
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 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

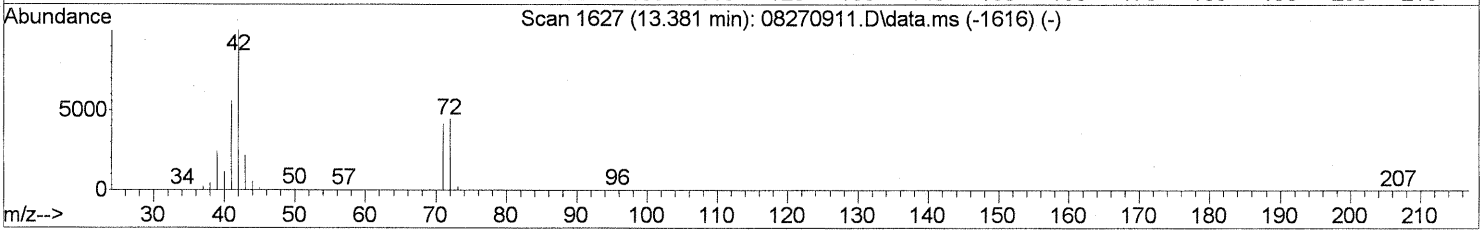
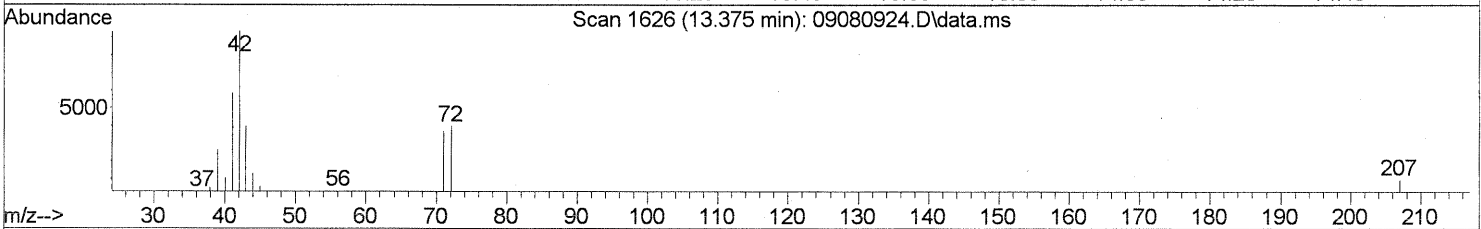
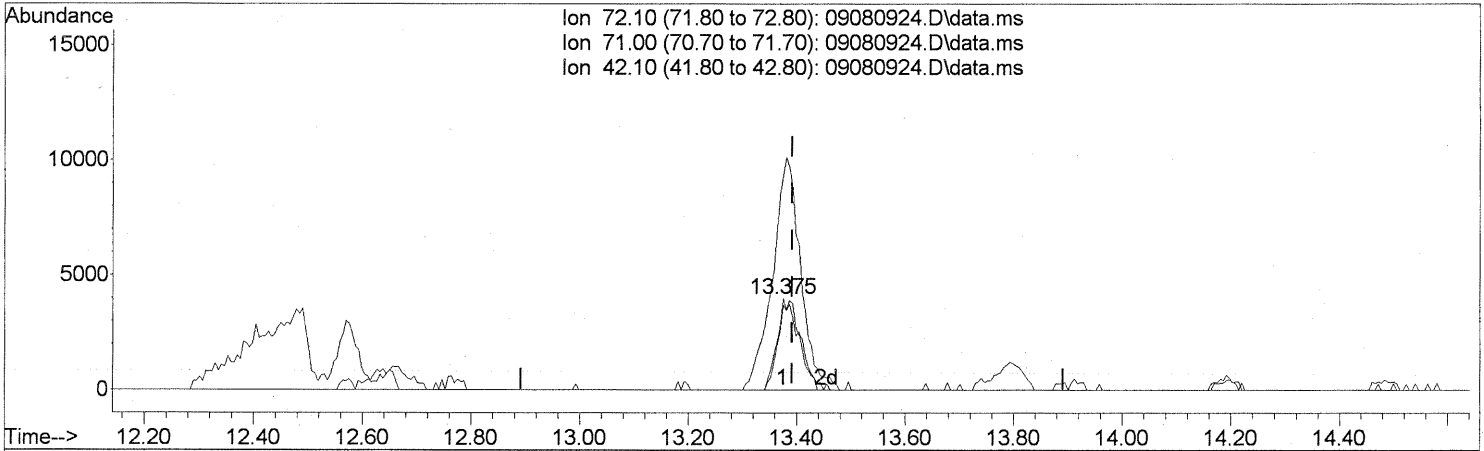
(32) Chloroform (T)
 12.678min (-0.040) 0.13ng
 response 3292

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	61.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.375min (-0.017) 1.11ng

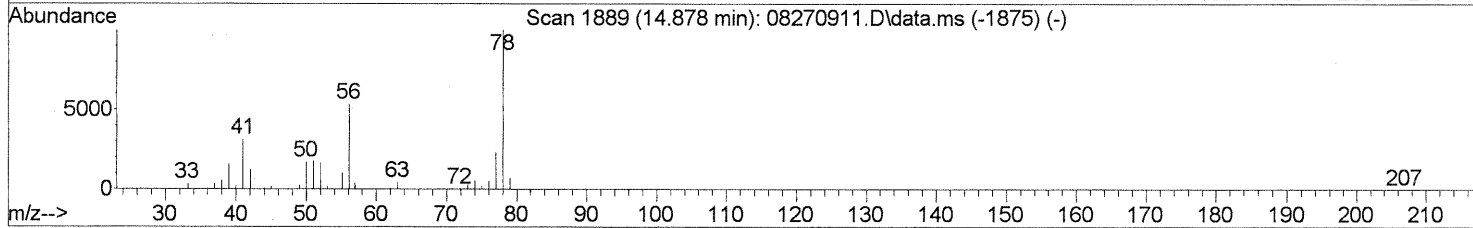
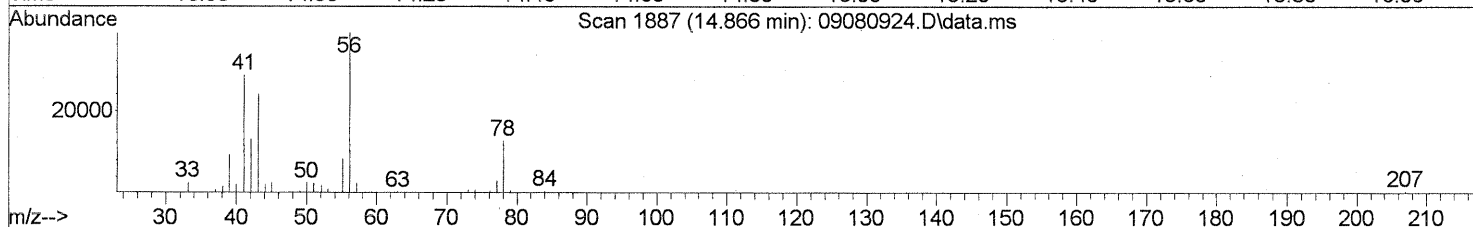
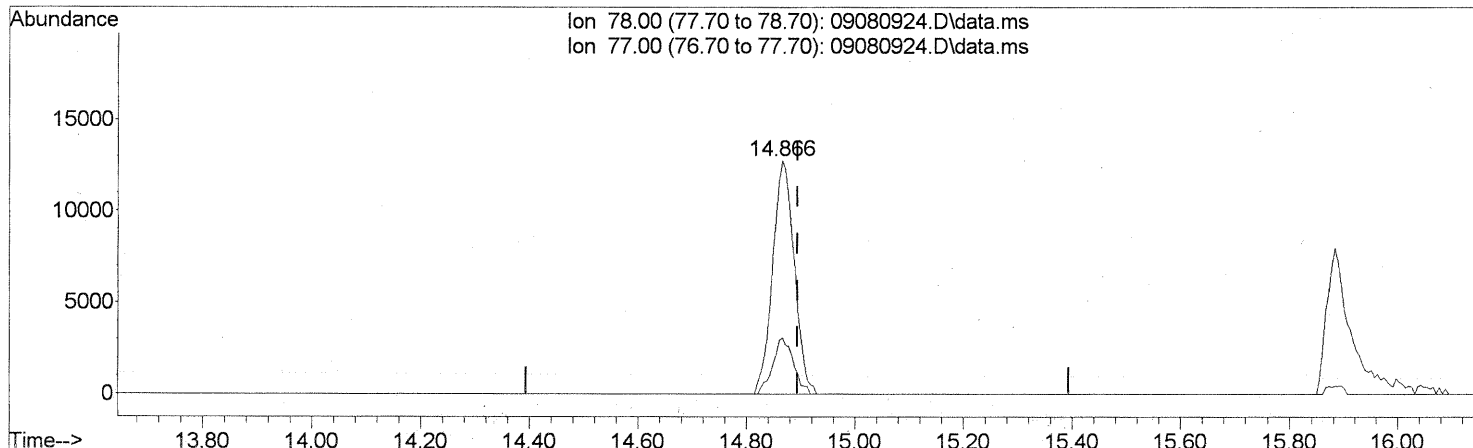
response 11591

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	91.52
42.10	254.10	312.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

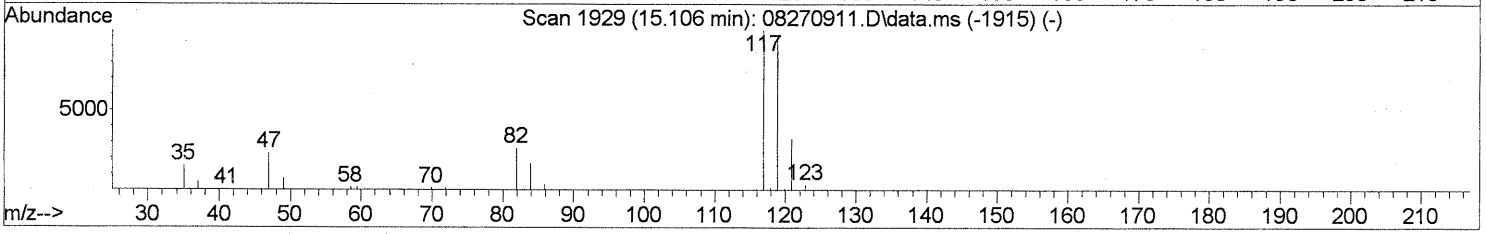
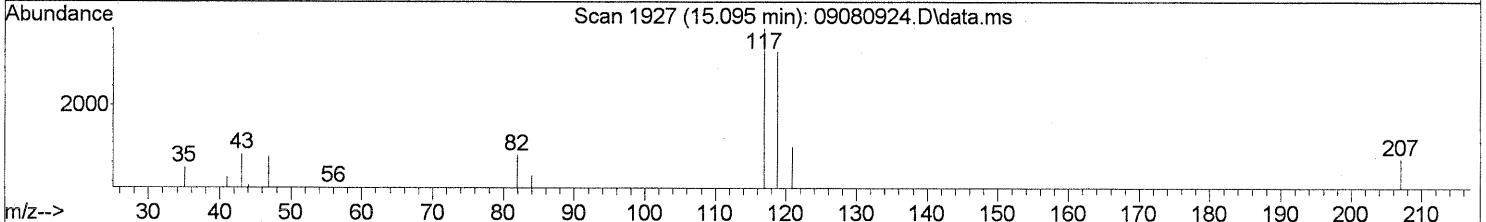
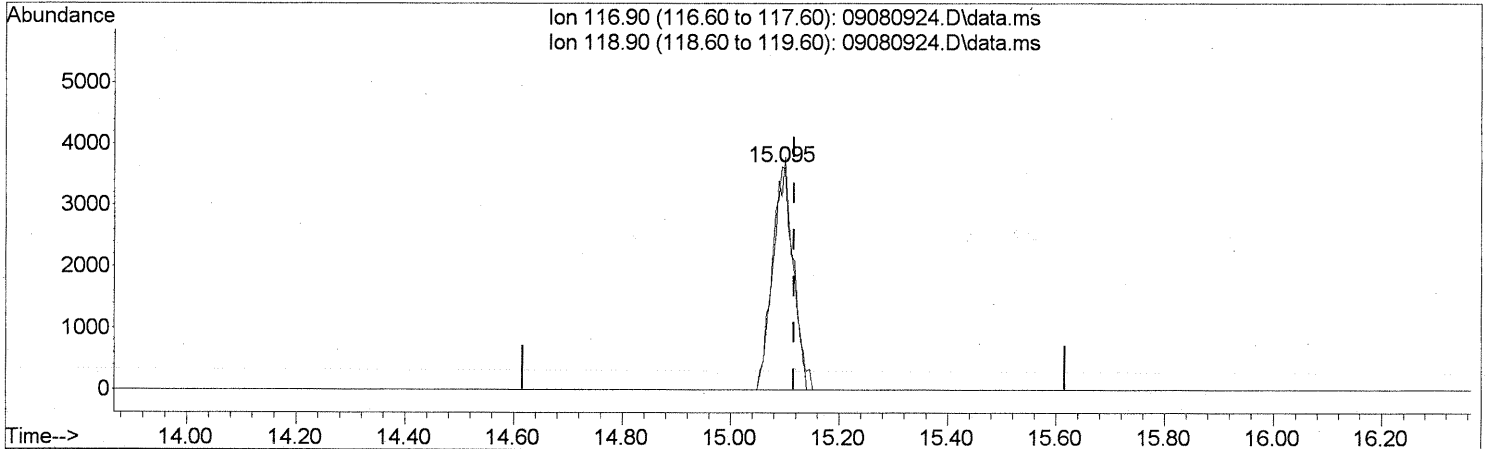
(41) Benzene (T)
 14.866min (-0.029) 0.58ng
 response 35343

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	23.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

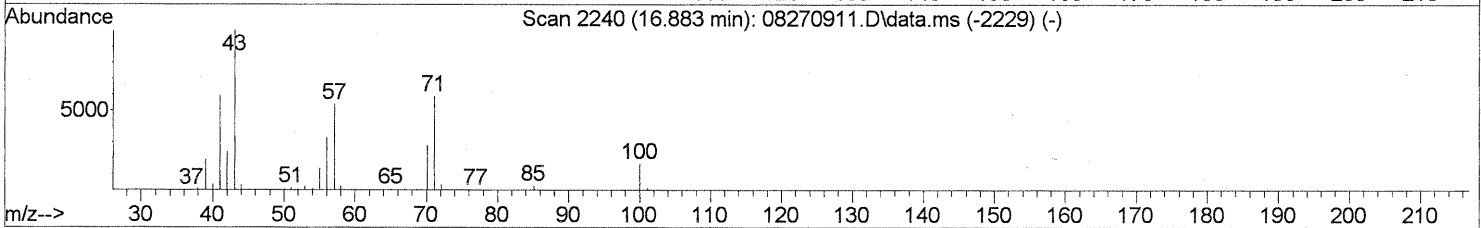
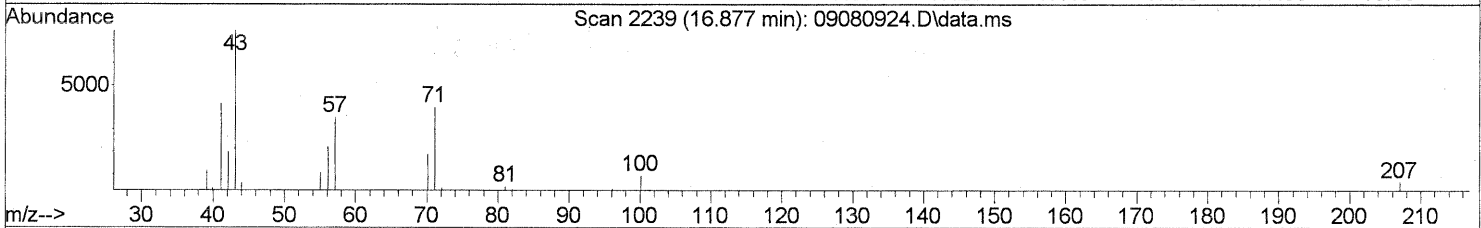
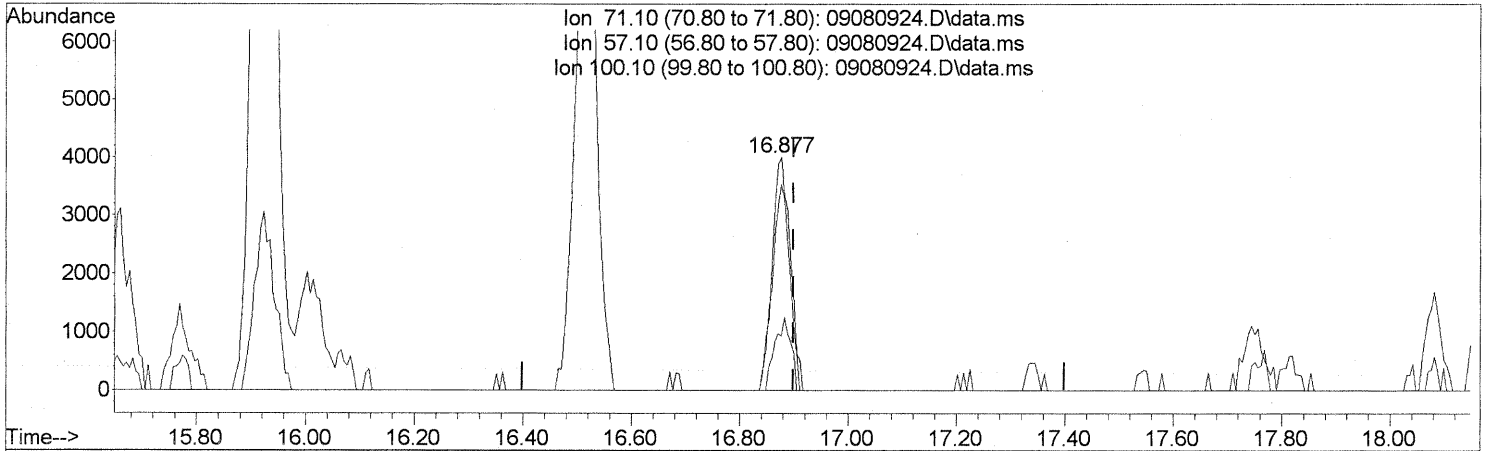
(42) Carbon Tetrachloride (T)
 15.095min (-0.023) 0.48ng
 response 9833

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	96.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

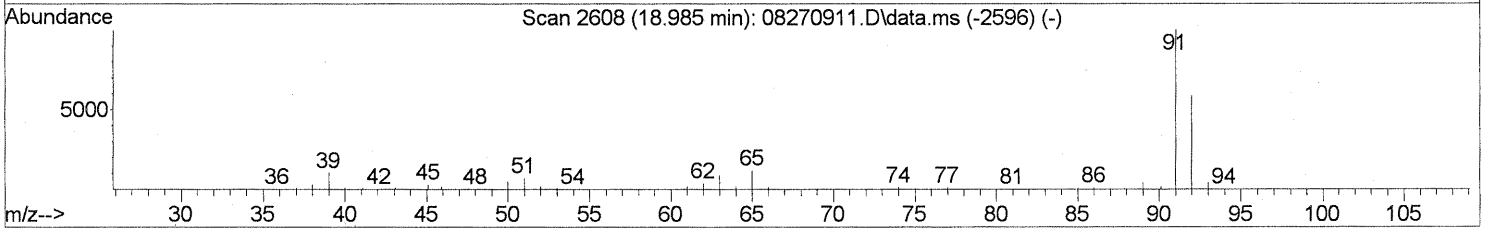
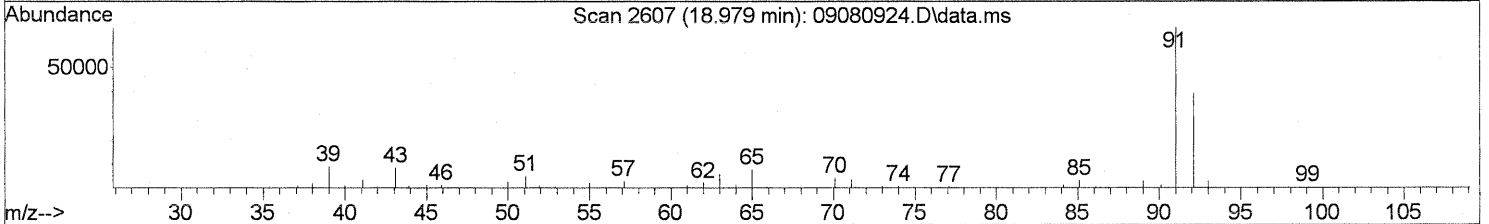
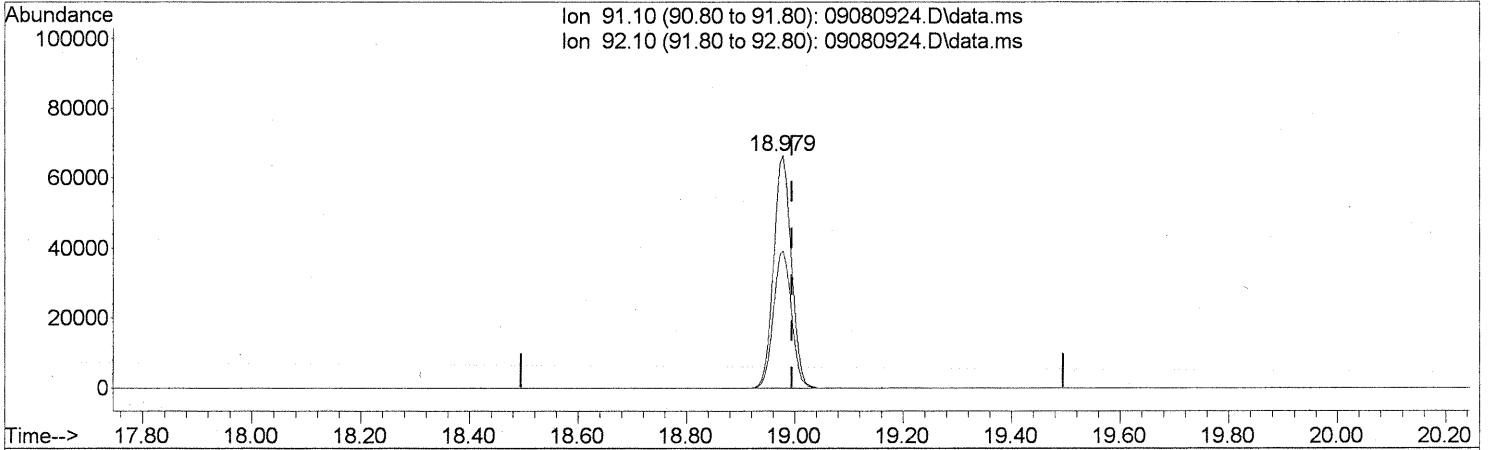
(51) n-Heptane (T)
 16.877min (-0.023) 0.59ng
 response 9284

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	84.69
100.10	22.00	27.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080924.D
Acq On : 9 Sep 2009 3:01
Operator : LM/CC
Sample : P0903081-002 (1000ml)
Misc : EH&E 104765
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



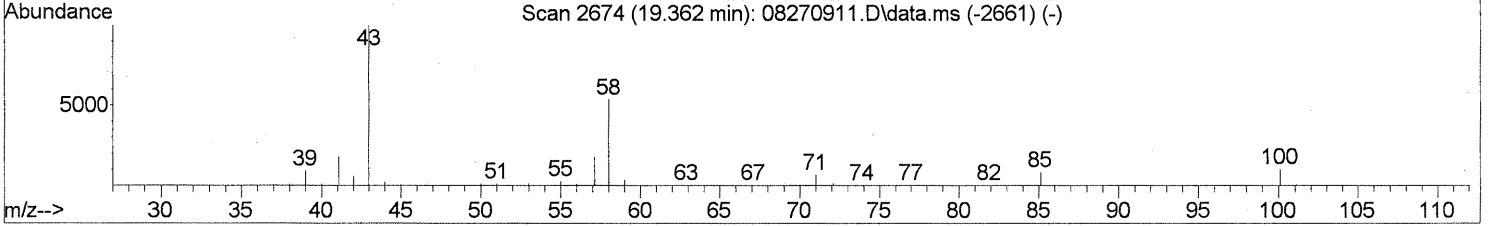
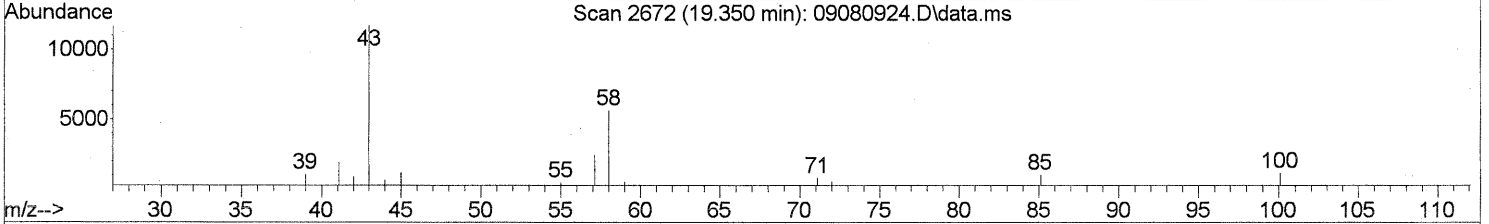
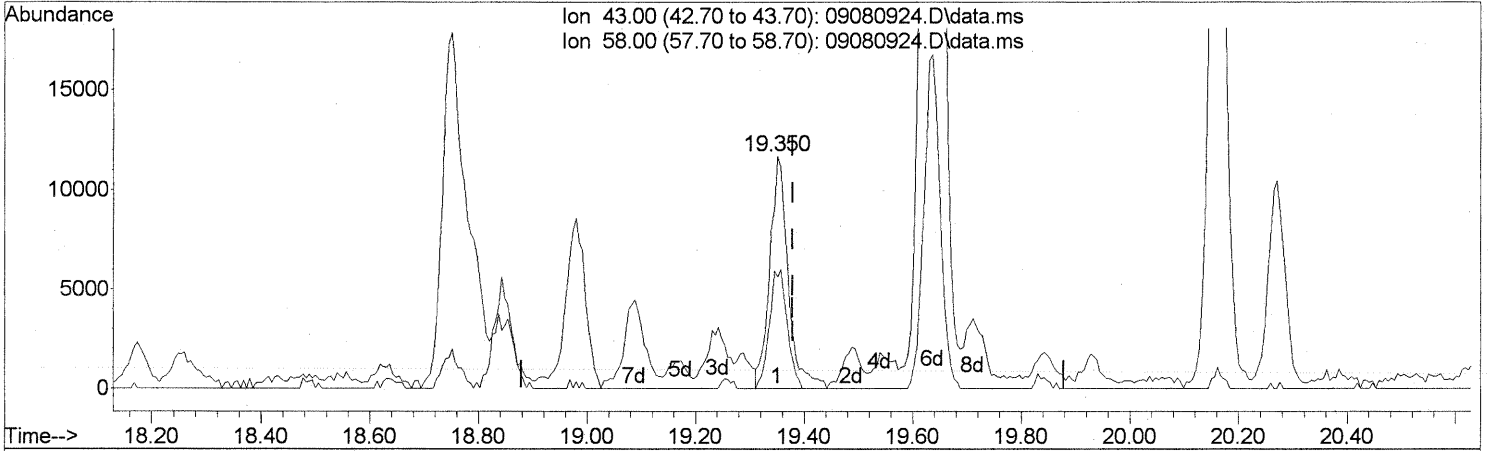
TIC: 09080924.D\data.ms

(58) Toluene (T)		
18.979min (-0.017) 2.49ng		
response 151654		
Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



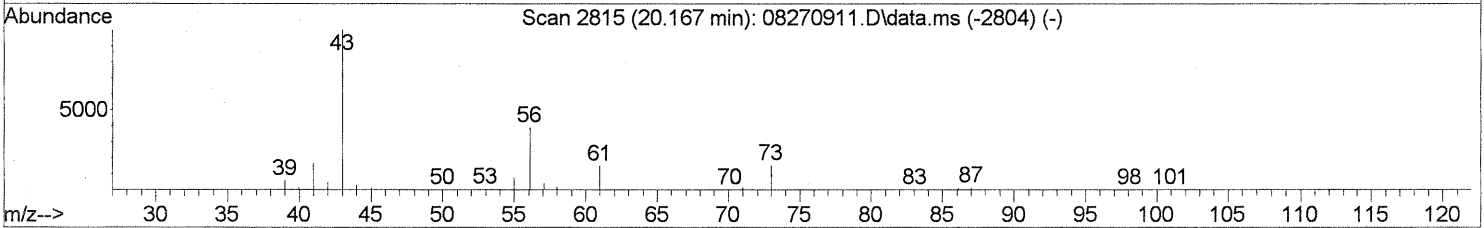
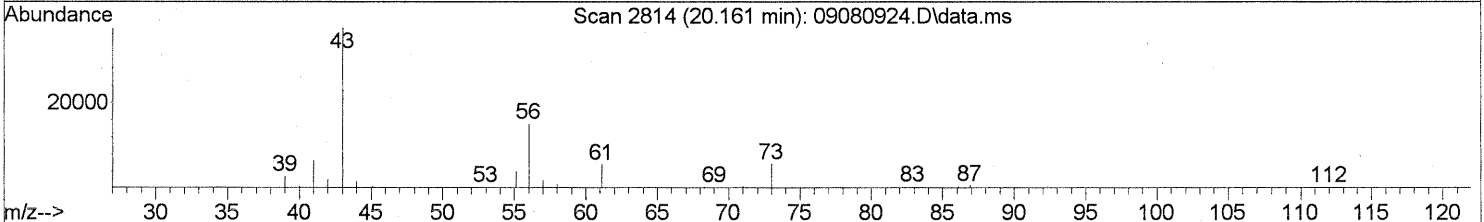
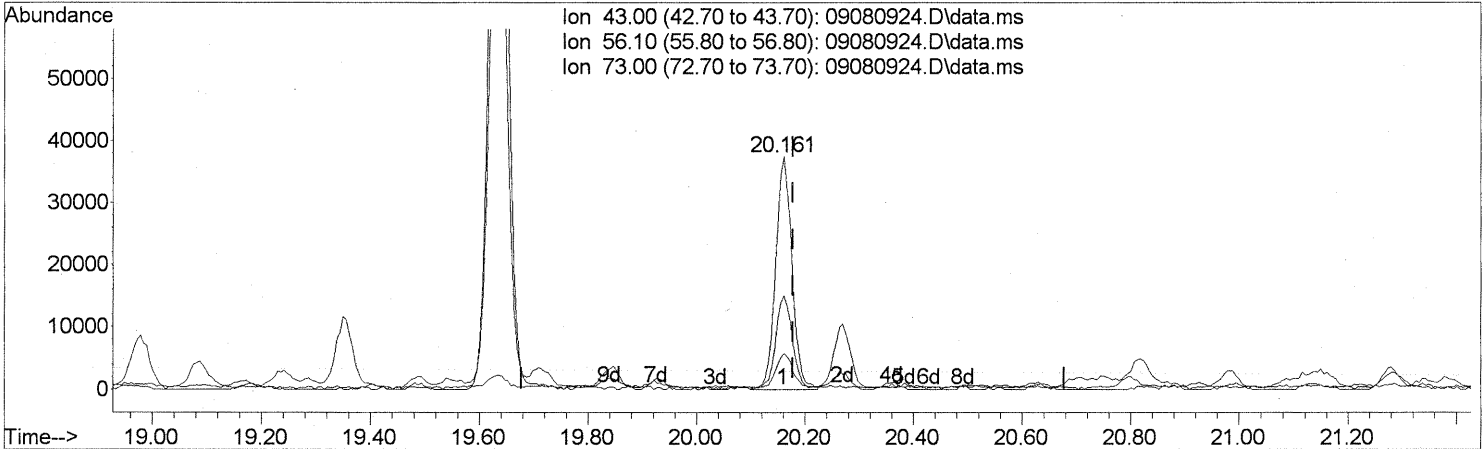
TIC: 09080924.D\data.ms

(59) 2-Hexanone (T)		
19.350min	(-0.029)	0.73ng
response	27337	
Ion	Exp%	Act%
43.00	100	100
58.00	51.70	49.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

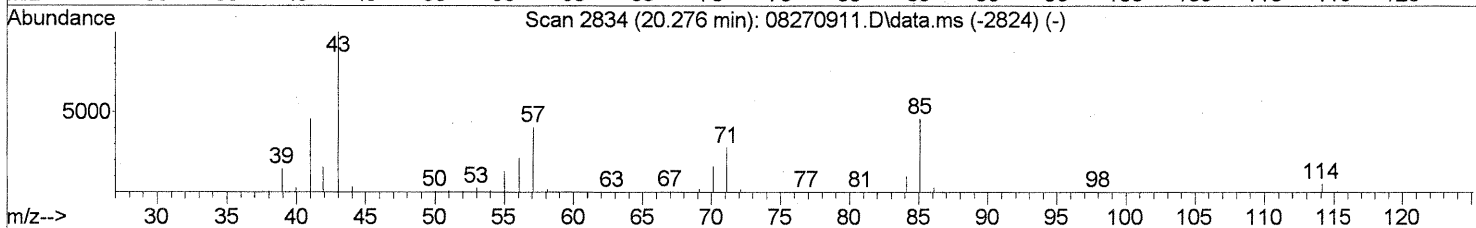
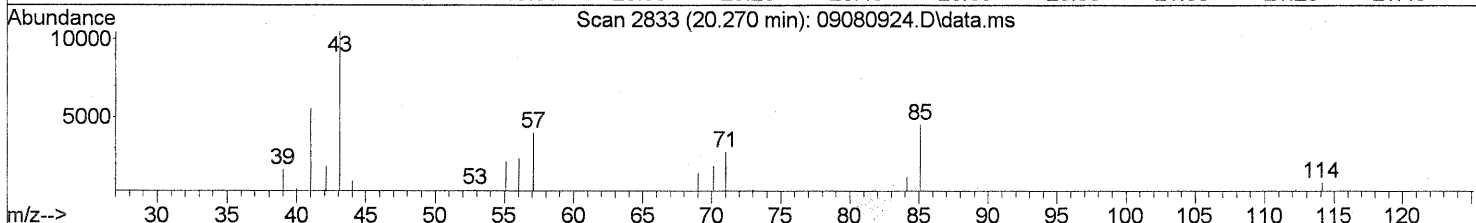
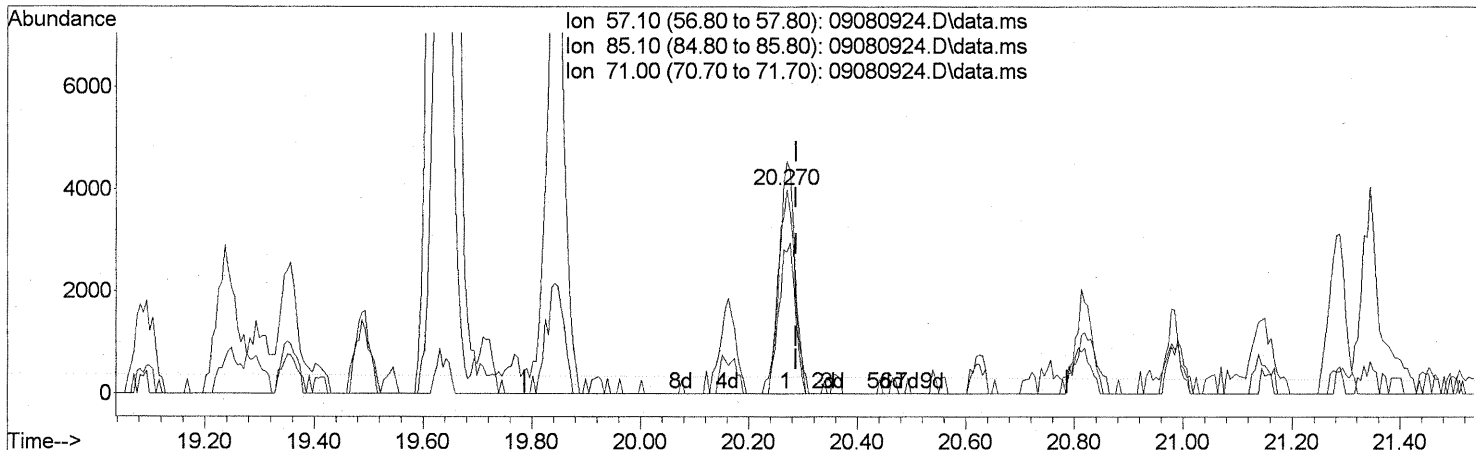
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 1.82ng
 response 77808

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	41.39
73.00	14.30	19.23
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

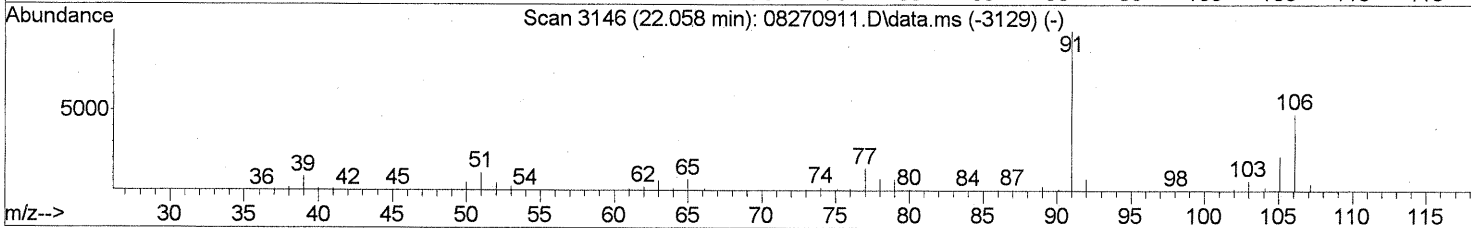
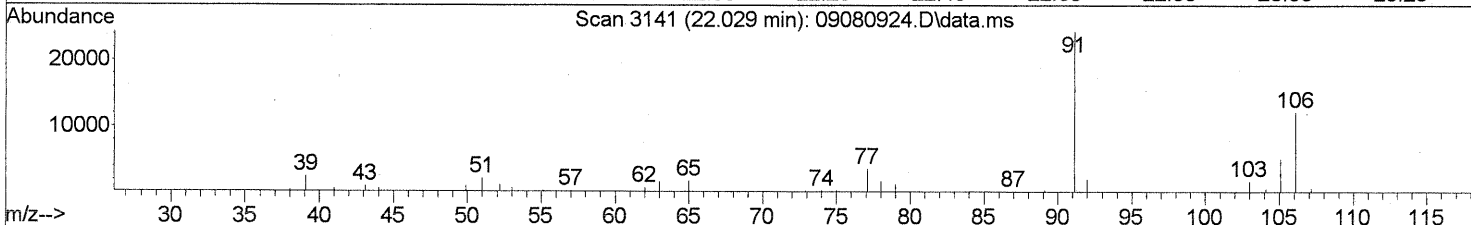
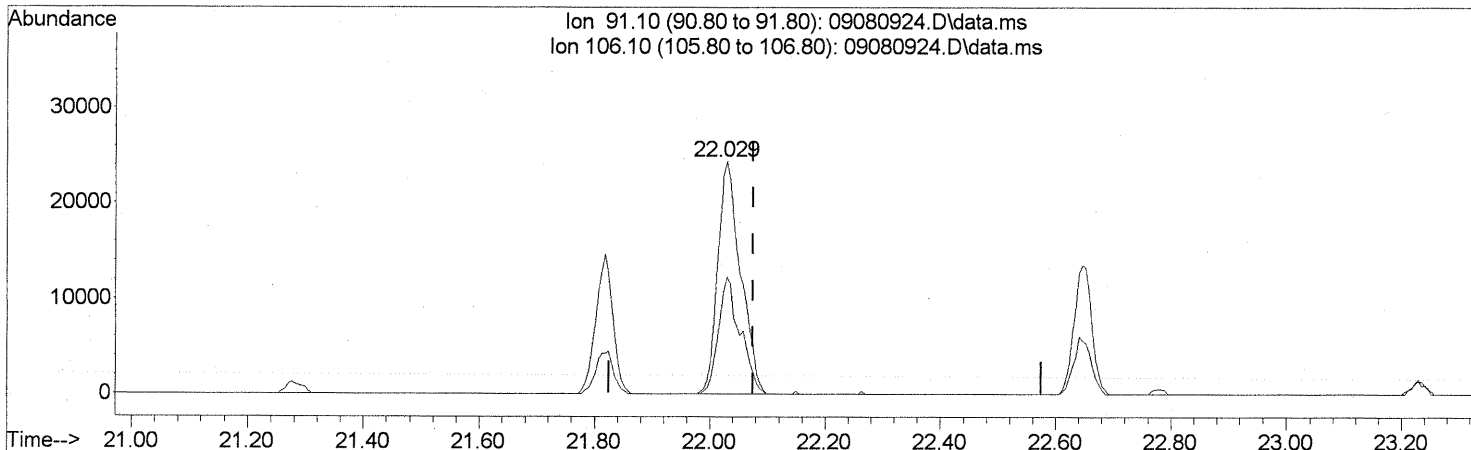
(63) n-Octane (T)
 20.270min (-0.017) 0.60ng
 response 8365

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	111.08
71.00	69.10	73.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

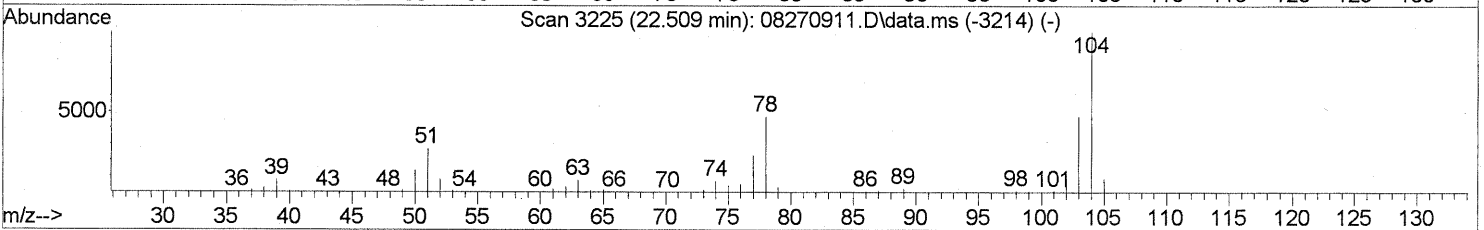
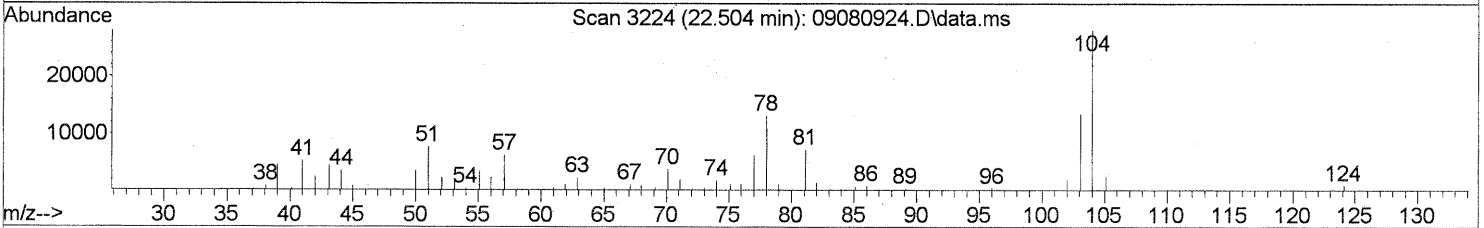
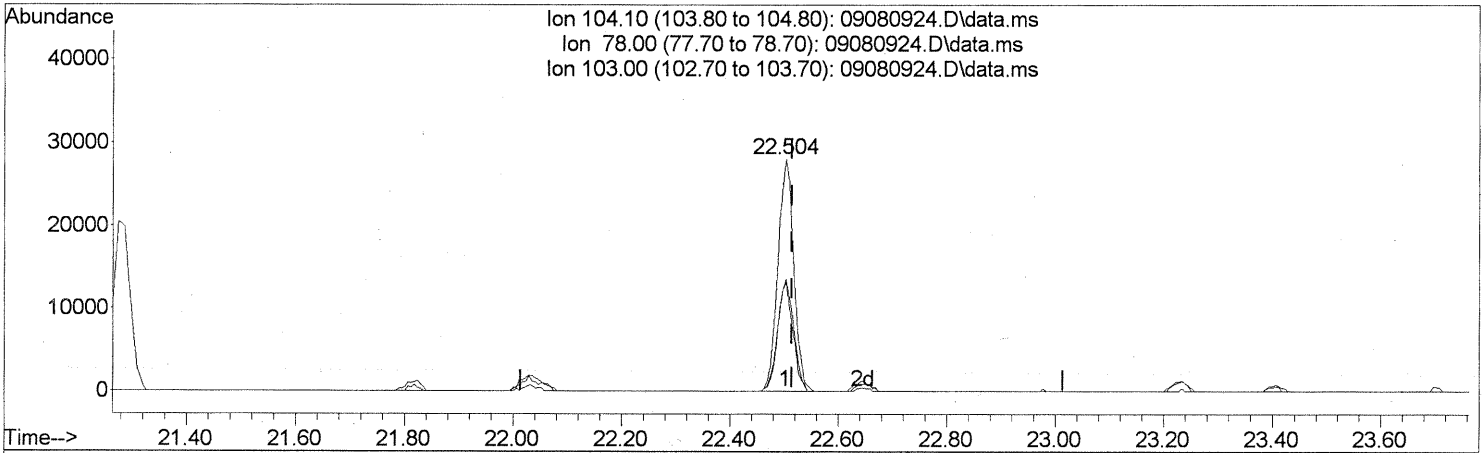
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 1.22ng
 response 67609

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	47.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



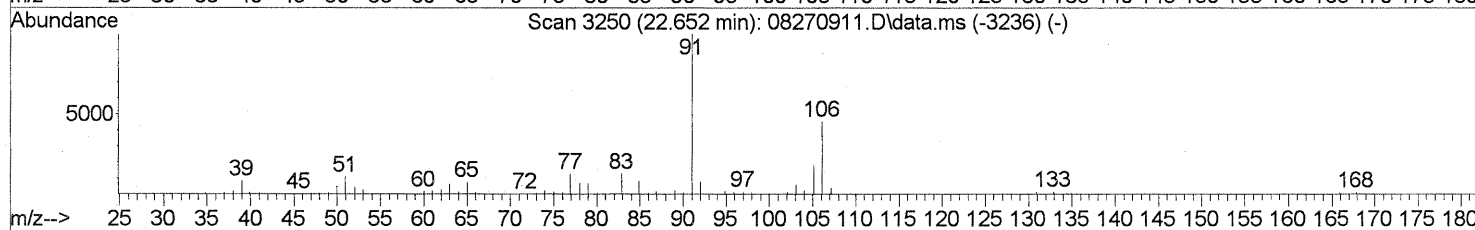
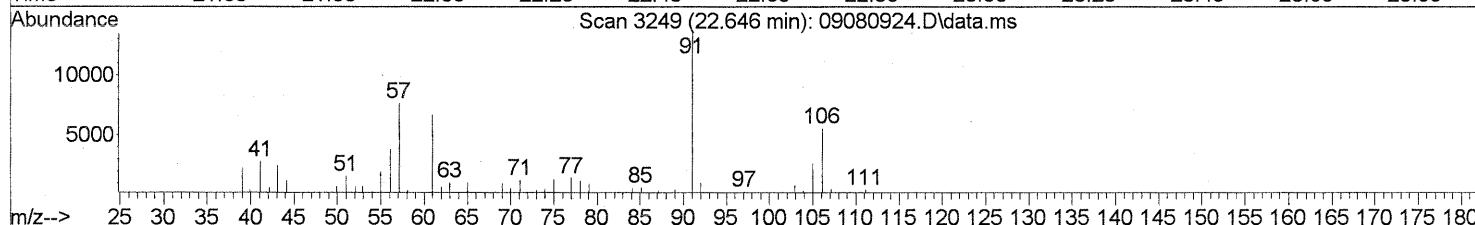
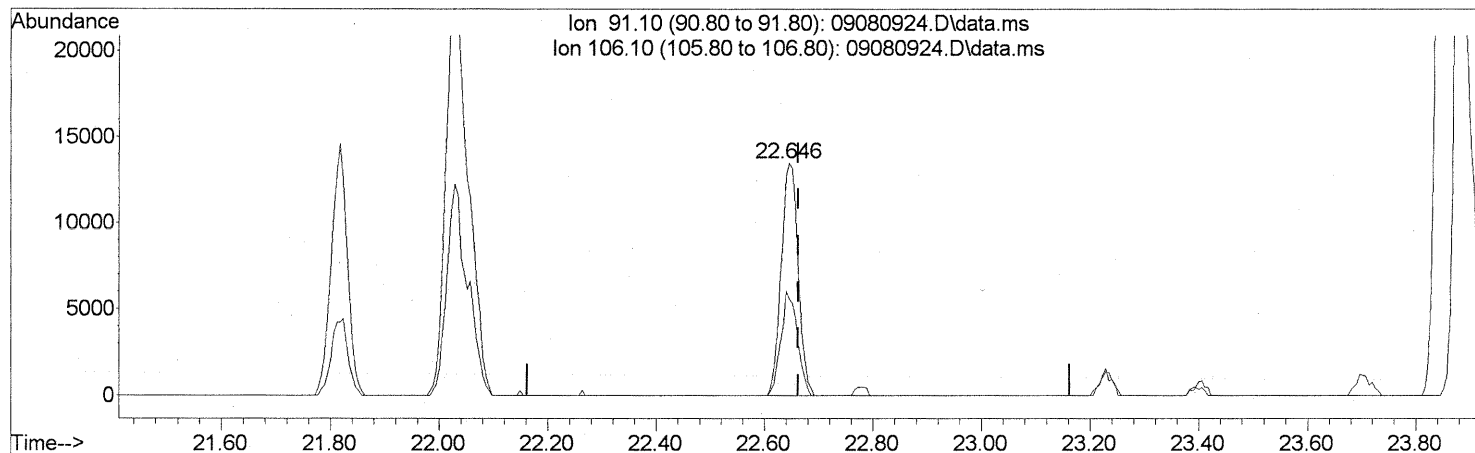
TIC: 09080924.D\data.ms

(69) Styrene (T)		
22.504min (-0.011) 1.38ng		
response 56652		
Ion	Exp%	Act%
104.10	100	100
78.00	47.20	45.65
103.00	47.00	47.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

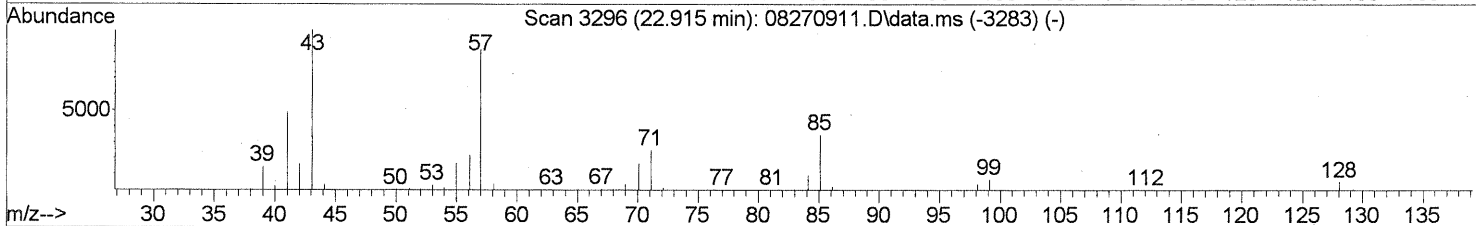
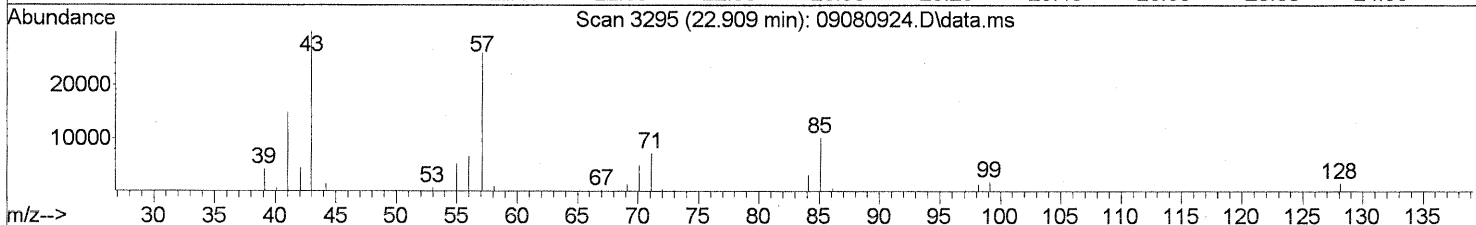
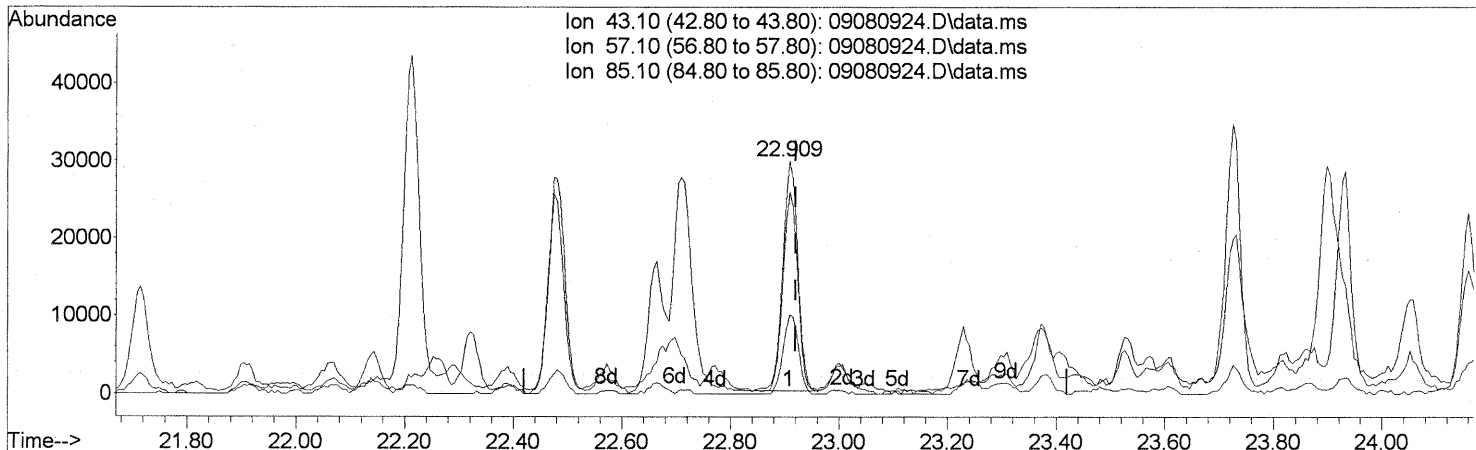
(70) o-Xylene (T)
 22.646min (-0.017) 0.52ng
 response 29049

Ion	Exp%	Act%
91.10	100	100
106.10	44.90	43.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

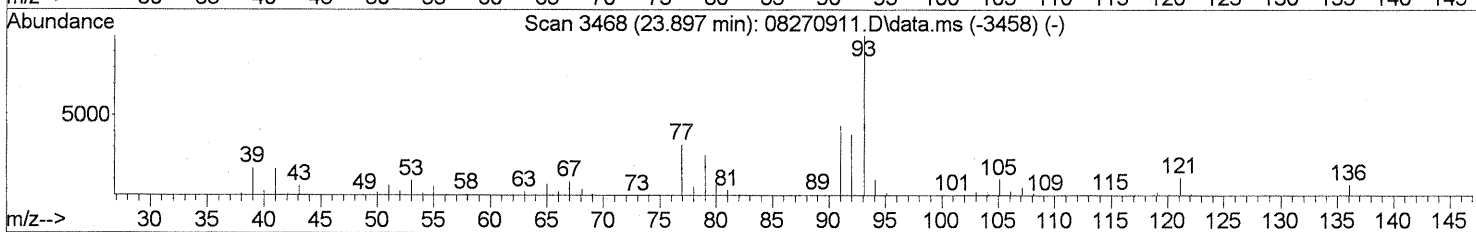
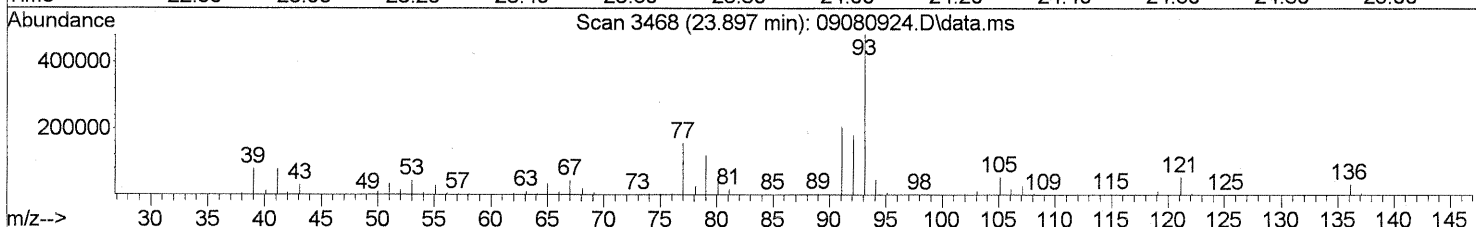
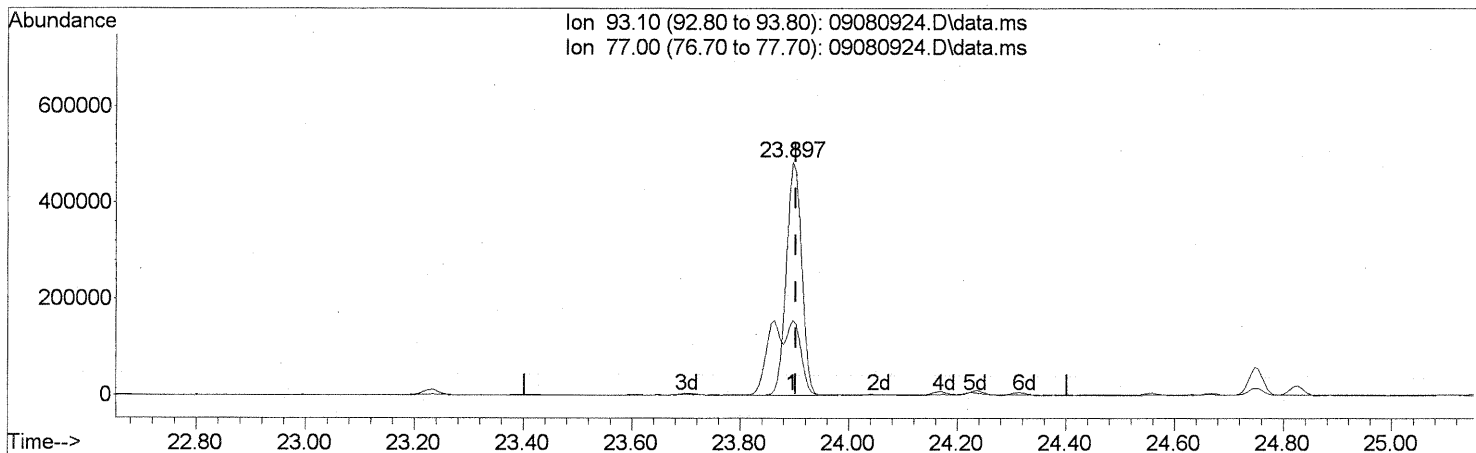
(71) n-Nonane (T)
 22.909min (-0.011) 1.70ng
 response 57042

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	85.57
85.10	32.20	34.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

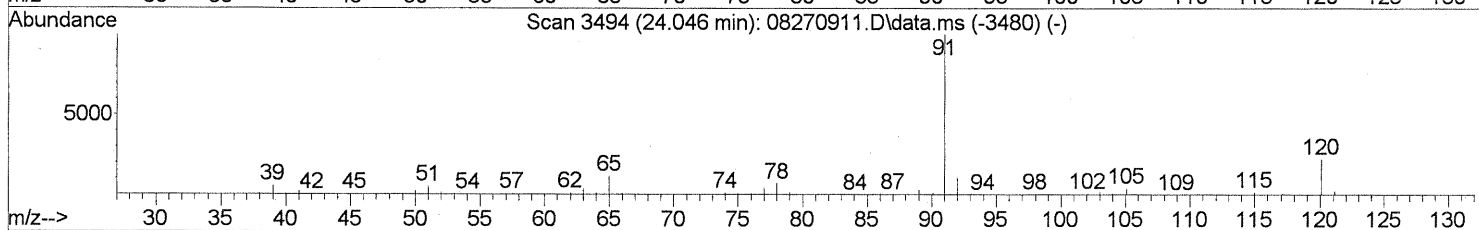
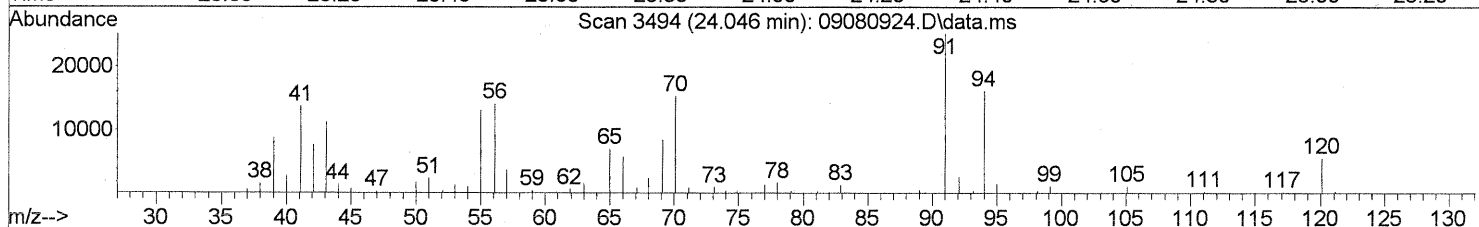
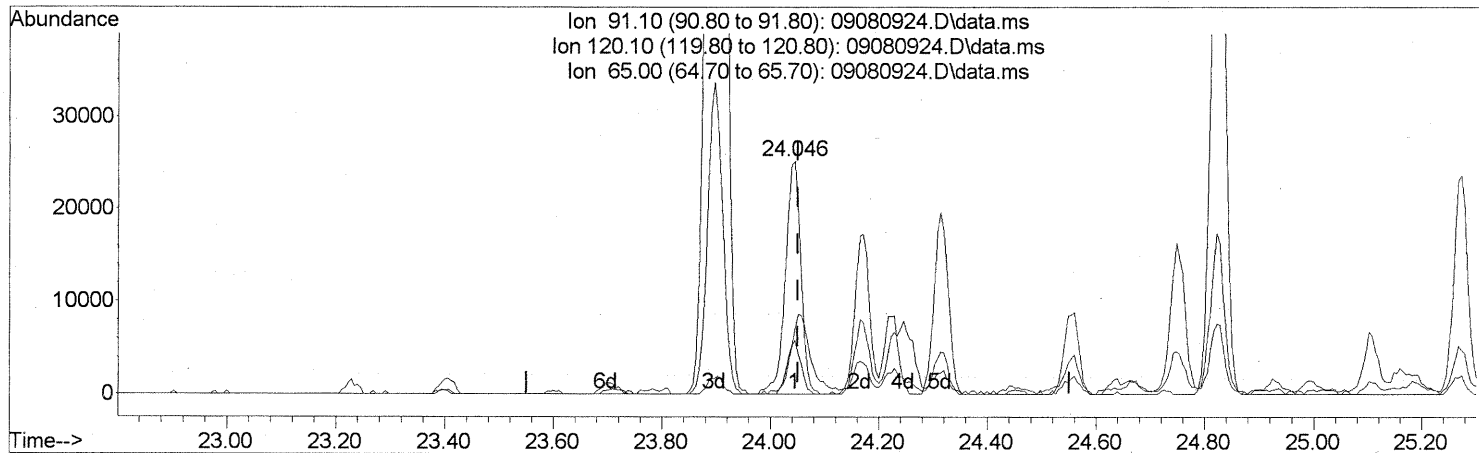
(75) alpha-Pinene (T)
 23.897min (-0.006) 25.73ng
 response 944130

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	25.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

(76) n-Propylbenzene (T)

24.046min (-0.006) 0.55ng

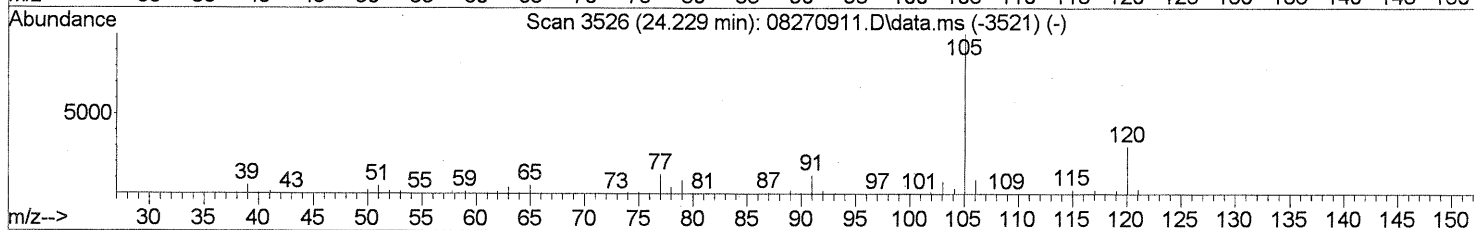
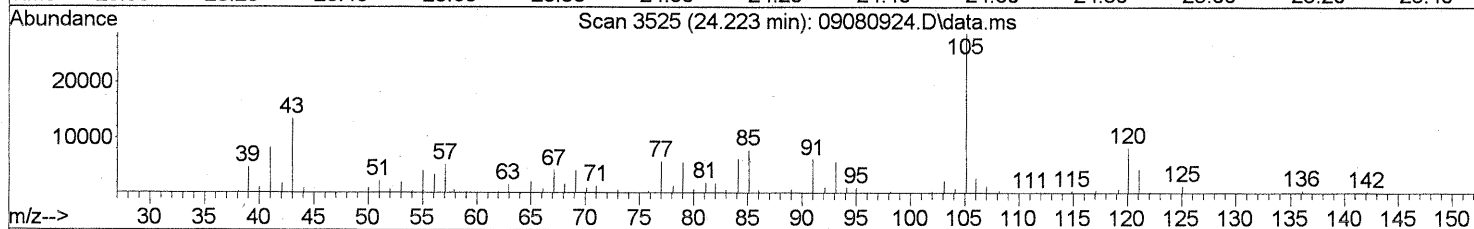
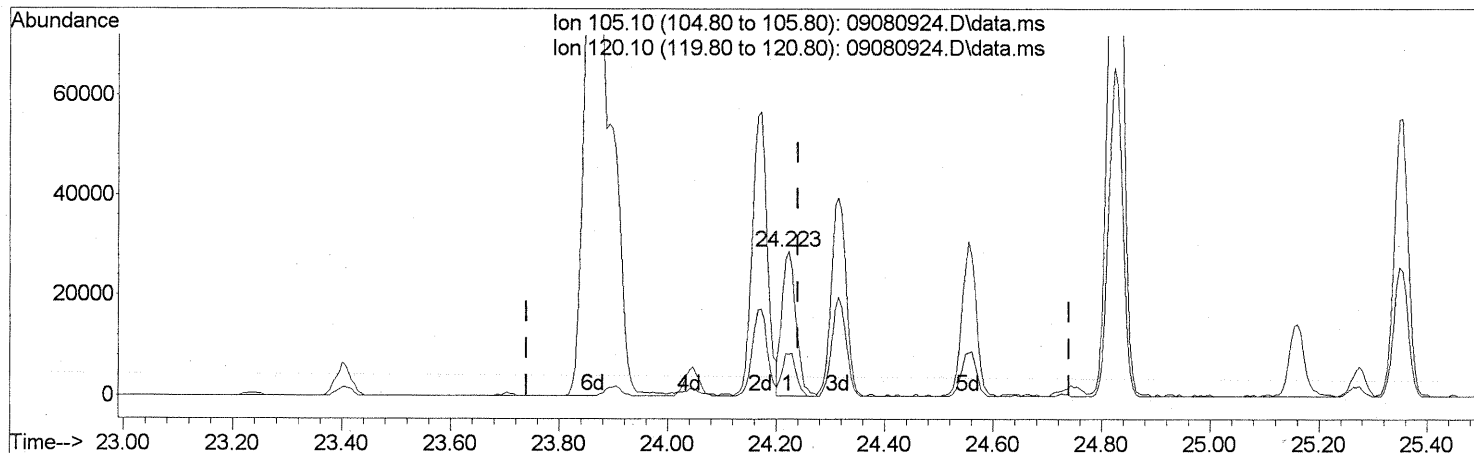
response 49762

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	20.29
65.00	11.80	44.84#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

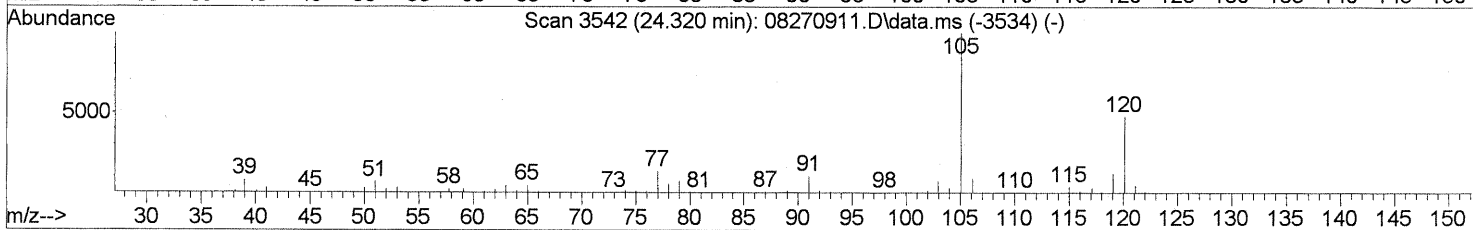
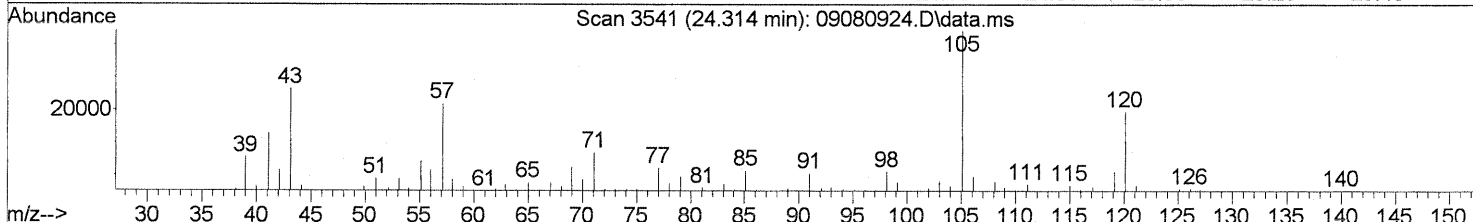
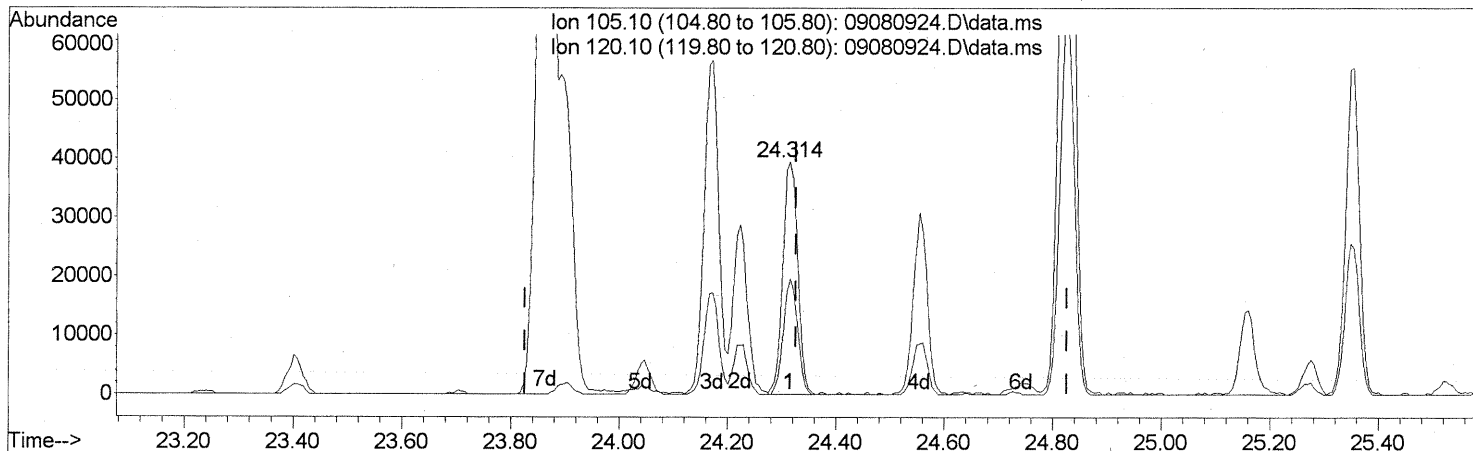
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 0.77ng
 response 51612

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	29.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

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

24.314min (-0.011) 1.35ng

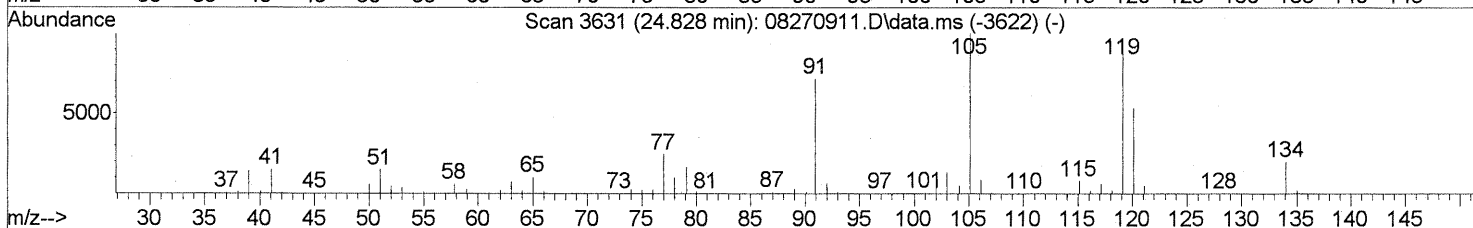
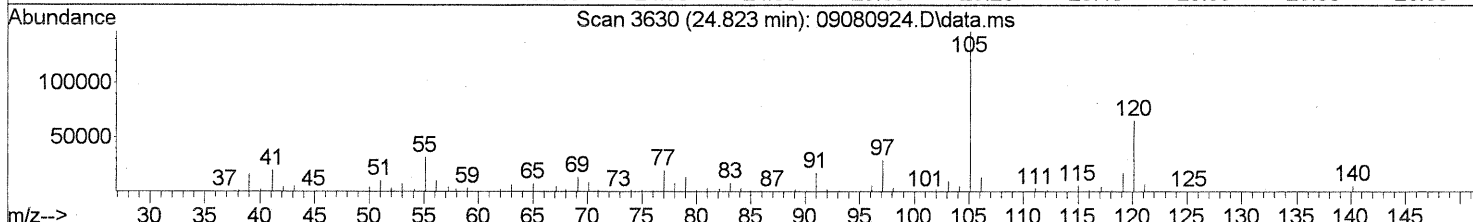
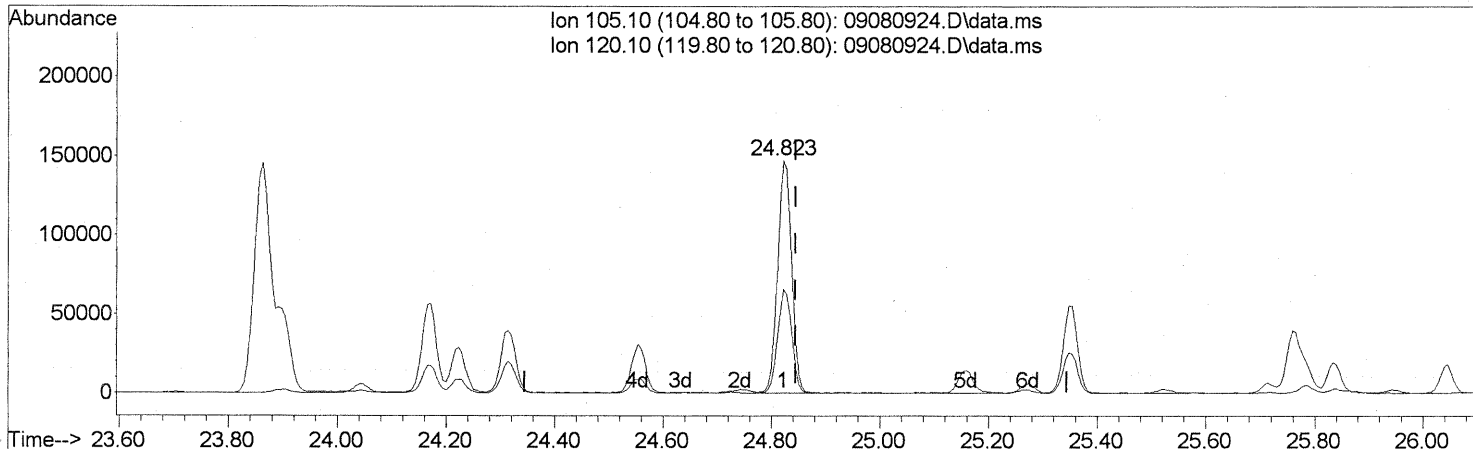
response 74929

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

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

24.823min (-0.023) 4.63ng

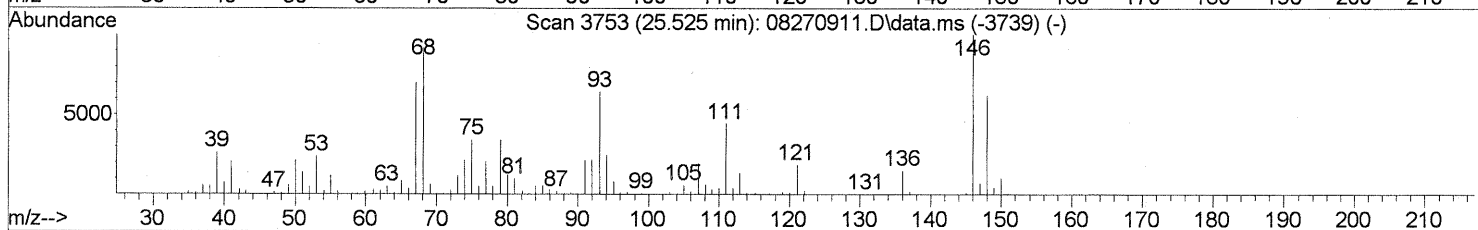
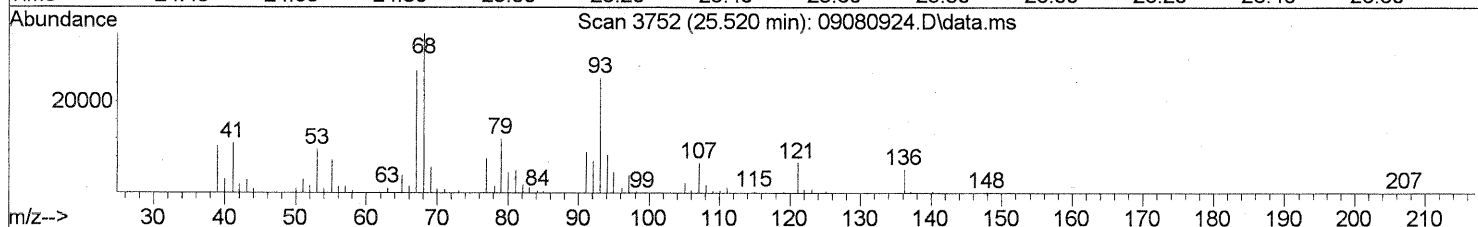
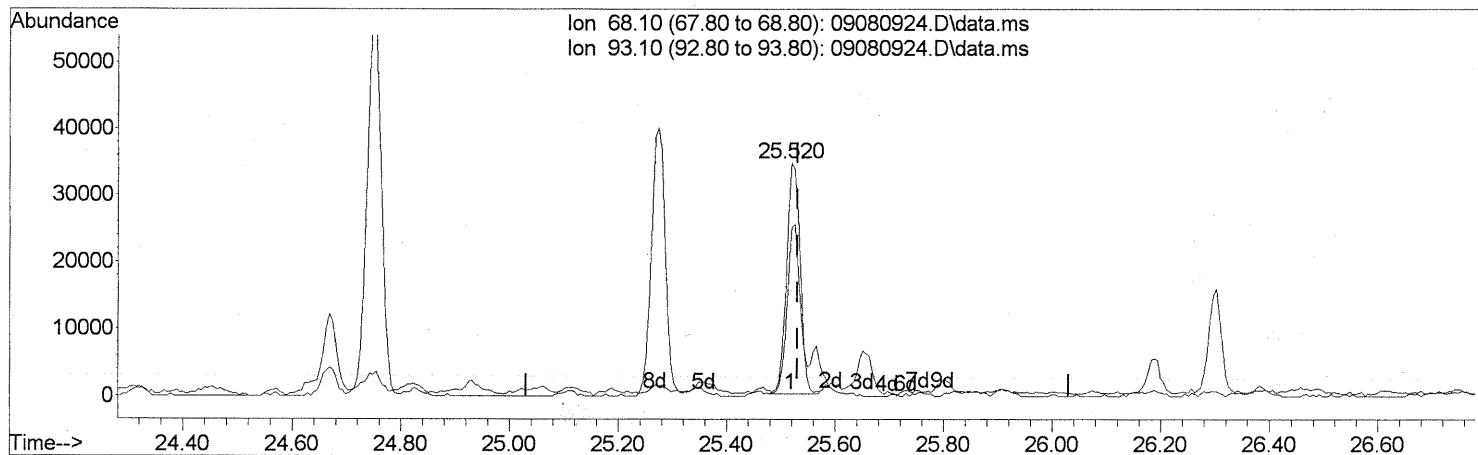
response 262713

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	44.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080924.D
 Acq On : 9 Sep 2009 3:01
 Operator : LM/CC
 Sample : P0903081-002 (1000ml)
 Misc : EH&E 104765
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080924.D\data.ms

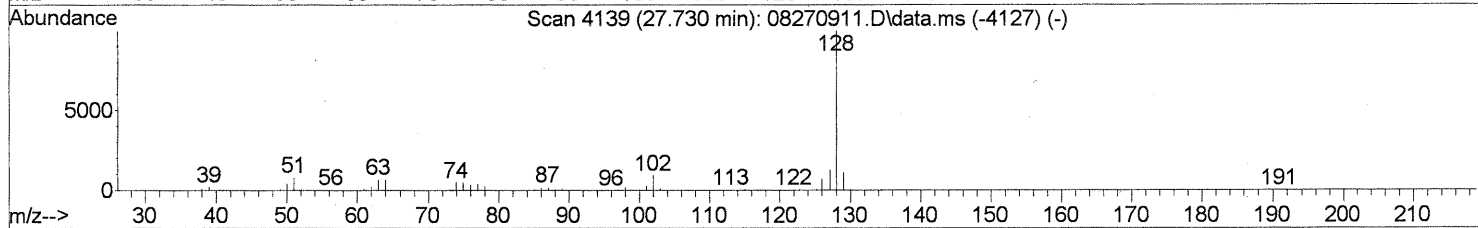
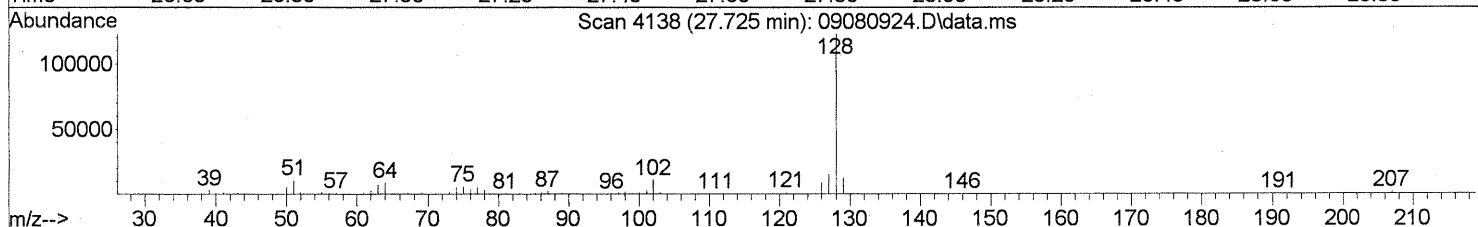
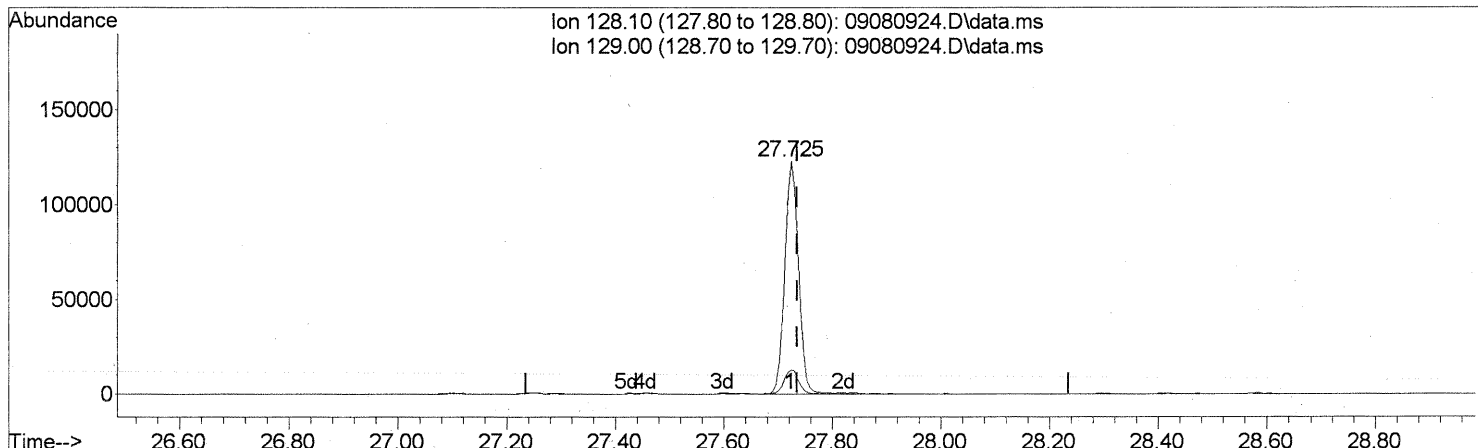
(91) d-Limonene (T)
 25.520min (-0.011) 2.64ng
 response 59754

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	75.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080924.D
Acq On : 9 Sep 2009 3:01
Operator : LM/CC
Sample : P0903081-002 (1000ml)
Misc : EH&E 104765
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 09 10:13:37 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



TIC: 09080924.D\data.ms

(95) Naphthalene (T)
27.725min (-0.011) 2.73ng
response 214178

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	10.95
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104766
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01563

CAS Project ID: P0903081
 CAS Sample ID: P0903081-003

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.6

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	1.5	0.62	0.90	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.62	0.52	0.13	
74-87-3	Chloromethane	0.66	0.12	0.32	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.089	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.049	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	32	6.2	17	3.3	
75-05-8	Acetonitrile	160	0.62	94	0.37	E
107-02-8	Acrolein	6.4	0.62	2.8	0.27	
67-64-1	Acetone	120	6.2	50	2.6	
75-69-4	Trichlorofluoromethane	1.3	0.12	0.24	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	11	0.62	4.4	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.29	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.040	
76-13-1	Trichlorotrifluoroethane	0.56	0.12	0.073	0.016	
75-15-0	Carbon Disulfide	1.6	0.62	0.53	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.031	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	12	6.2	3.5	1.8	
78-93-3	2-Butanone (MEK)	7.8	0.62	2.6	0.21	

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

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

E = Estimated; concentration exceeded calibration range.

Verified By:

Date: 9/16/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104766
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01563

CAS Project ID: P0903081
 CAS Sample ID: P0903081-003

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.6

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	0.12	ND	0.031	
141-78-6	Ethyl Acetate	10	0.62	2.9	0.17	
110-54-3	n-Hexane	0.96	0.62	0.27	0.18	
67-66-3	Chloroform	0.21	0.12	0.044	0.025	
109-99-9	Tetrahydrofuran (THF)	3.4	0.62	1.1	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.031	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.74	0.12	0.23	0.039	
56-23-5	Carbon Tetrachloride	0.49	0.12	0.078	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.019	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	1.2	0.62	0.30	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	0.85	0.62	0.21	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	6.0	0.62	1.6	0.16	
591-78-6	2-Hexanone	1.7	0.62	0.42	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.015	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	4.0	0.62	0.84	0.13	

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

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

Verified By:

Date: 9/16/09

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104766
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC01563

CAS Project ID: P0903081
CAS Sample ID: P0903081-003

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.0 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.24

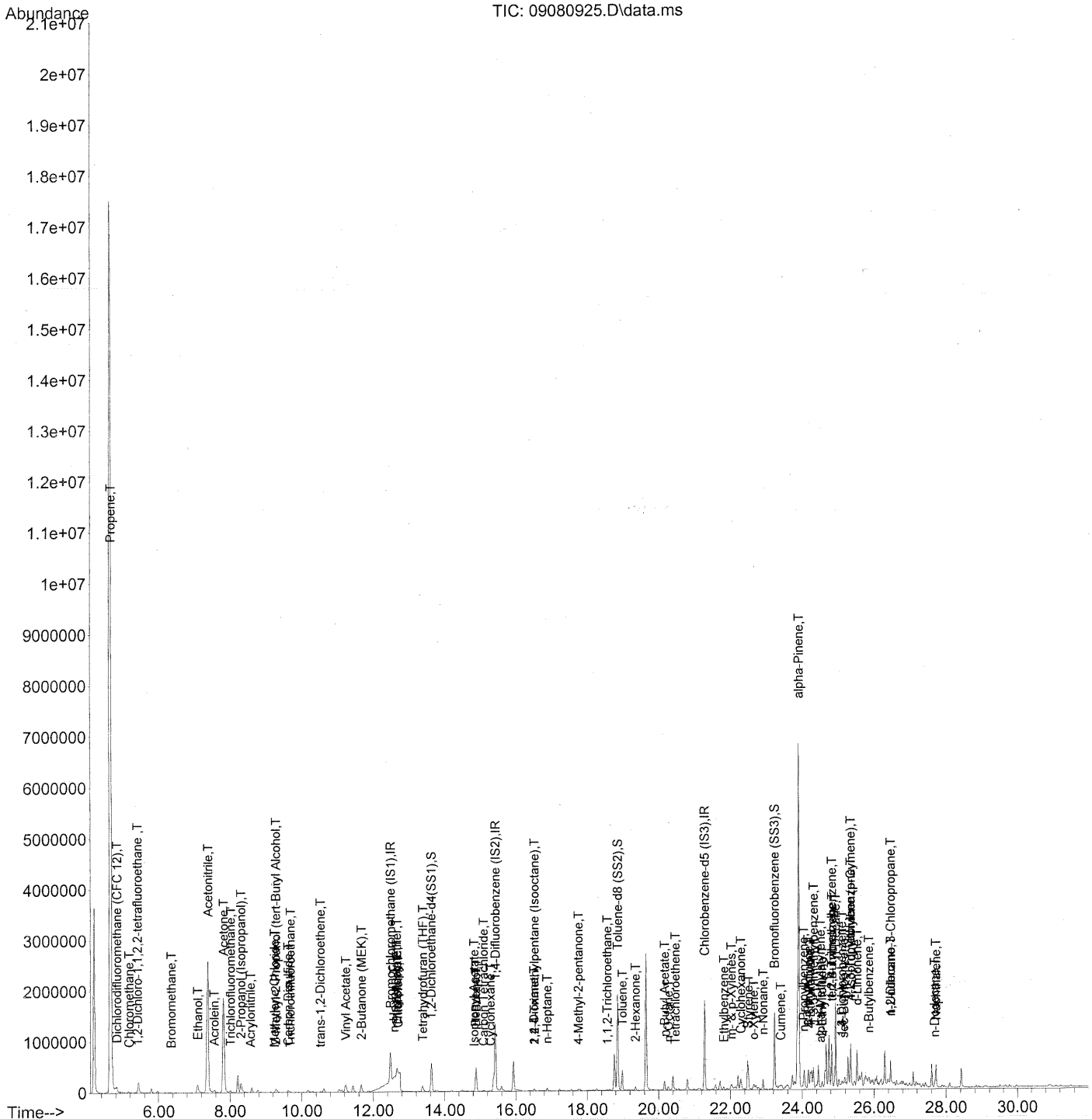
CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	1.1	0.62	0.24	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	0.73	0.62	0.17	0.14	
179601-23-1	m,p-Xylenes	1.8	0.62	0.41	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	3.1	0.62	0.72	0.15	
95-47-6	o-Xylene	0.78	0.62	0.18	0.14	
111-84-2	n-Nonane	2.9	0.62	0.56	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	93	0.62	17	0.11	
103-65-1	n-Propylbenzene	0.92	0.62	0.19	0.13	
622-96-8	4-Ethyltoluene	1.3	0.62	0.26	0.13	
108-67-8	1,3,5-Trimethylbenzene	2.2	0.62	0.44	0.13	
95-63-6	1,2,4-Trimethylbenzene	7.2	0.62	1.5	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.021	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.021	
5989-27-5	d-Limonene	8.4	0.62	1.5	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.084	
91-20-3	Naphthalene	4.9	0.62	0.94	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

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

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

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44 am
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 11:09:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
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 QLast Update : Fri Aug 28 06:02:46 2009
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09/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	293590	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.42	114	1486161	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	738340	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	565188	24.293	ng	-0.03
Spiked Amount	25.000		Recovery	= 97.16%		
57) Toluene-d8 (SS2)	18.85	98	1636423	24.800	ng	-0.01
Spiked Amount	25.000		Recovery	= 99.20%		
73) Bromofluorobenzene (SS3)	23.23	174	492151	25.915	ng	0.00
Spiked Amount	25.000		Recovery	= 103.68%		

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	26506m	1.248	ng	
3) Dichlorodifluoromethan...	4.84	85	76689	2.063	ng	99
4) Chloromethane	5.17	50	13288	0.532	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1299	0.085	ng	# 43
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.87	54	590	N.D.		
8) Bromomethane	6.35	94	963	0.066	ng	92
9) Chloroethane	6.70	64	412	N.D.		
10) Ethanol	7.09	45	343342	26.073	ng	99
11) Acetonitrile	7.38	41	4668672	127.639	ng	100
12) Acrolein	7.55	56	52033	5.175	ng	98
13) Acetone	7.81	58	1307176	95.985	ng	91
14) Trichlorofluoromethane	8.01	101	34920	1.066	ng	99
15) 2-Propanol (Isopropanol)	8.30	45	395626	8.738	ng	98
16) Acrylonitrile	8.57	53	1737	0.077	ng	96
17) 1,1-Dichloroethene	9.02	96	193	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	33004	0.728	ng	# 1
19) Methylene Chloride	9.24	84	3607	0.209	ng	94
20) 3-Chloro-1-propene (Al...	9.42	41	453	N.D.		
21) Trichlorotrifluoroethane	9.68	151	5841	0.450	ng	97
22) Carbon Disulfide	9.62	76	81504	1.326	ng	99
23) trans-1,2-Dichloroethene	10.51	61	1499	0.061	ng	# 19
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.17	73	115	N.D.		
26) Vinyl Acetate	11.23	86	33830	9.913	ng	# 33
27) 2-Butanone (MEK)	11.66	72	68900	6.263	ng	93
28) cis-1,2-Dichloroethene	12.21	61	828	N.D.		
29) Diisopropyl Ether	12.66	87	1032	0.064	ng	# 1
30) Ethyl Acetate	12.66	61	49617	8.393	ng	# 73
31) n-Hexane	12.58	57	22768	0.773	ng	97

95

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44 am
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 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 11:09:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.69	83	5004	0.172	ng	89
34) Tetrahydrofuran (THF)	13.38	72	32495	2.724	ng #	70
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	867	N.D.		
38) 1,1,1-Trichloroethane	14.16	97	1297	N.D.		
39) Isopropyl Acetate	14.82	61	1622	0.143	ng #	1
40) 1-Butanol	14.88	56	350671	18.957	ng #	39
41) Benzene	14.87	78	41894	0.600	ng	97
42) Carbon Tetrachloride	15.09	117	9242	0.394	ng	94
43) Cyclohexane	15.28	84	6681	0.259	ng	90
44) tert-Amyl Methyl Ether	15.84	73	86	N.D.		
45) 1,2-Dichloropropane	15.93	63	240	N.D.		
46) Bromodichloromethane	16.37	83	218	N.D.		
47) Trichloroethene	16.44	130	297	N.D.		
48) 1,4-Dioxane	16.51	88	2759	0.205	ng #	61
49) 2,2,4-Trimethylpentane...	16.52	57	32851	0.413	ng	72
50) Methyl Methacrylate	0.00	100	0	N.D.	d	
51) n-Heptane	16.88	71	17656	0.975	ng	95
52) cis-1,3-Dichloropropene	17.46	75	90	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	10965	0.687	ng	89
54) trans-1,3-Dichloropropene	18.64	75	211	N.D.		
55) 1,1,2-Trichloroethane	18.56	97	1311	0.081	ng #	1
58) Toluene	18.98	91	343708	4.836	ng	99
59) 2-Hexanone	19.35	43	59740	1.375	ng	96
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	159908	3.209	ng	98
63) n-Octane	20.27	57	14859	0.909	ng	99
64) Tetrachloroethene	20.46	166	1531	0.085	ng	96
65) Chlorobenzene	21.37	112	1276	N.D.		
66) Ethylbenzene	21.82	91	48036	0.591	ng	99
67) m- & p-Xylenes	22.03	91	92279	1.426	ng	99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	118486	2.487	ng	99
70) o-Xylene	22.65	91	40981	0.630	ng	97
71) n-Nonane	22.91	43	91973	2.355	ng	98
72) 1,1,2,2-Tetrachloroethane	22.65	83	884	N.D.		
74) Cumene	23.41	105	18950	0.230	ng	99
75) alpha-Pinene	23.90	93	3220753	75.368	ng	97
76) n-Propylbenzene	24.04	91	77750	0.743	ng #	62
77) 3-Ethyltoluene	24.17	105	157527	1.999	ng	99
78) 4-Ethyltoluene	24.22	105	81260	1.045	ng	98
79) 1,3,5-Trimethylbenzene	24.31	105	113478	1.753	ng	100

Data Path : J:\MS13\DATA\2009_09\08\
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 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 15 11:09:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

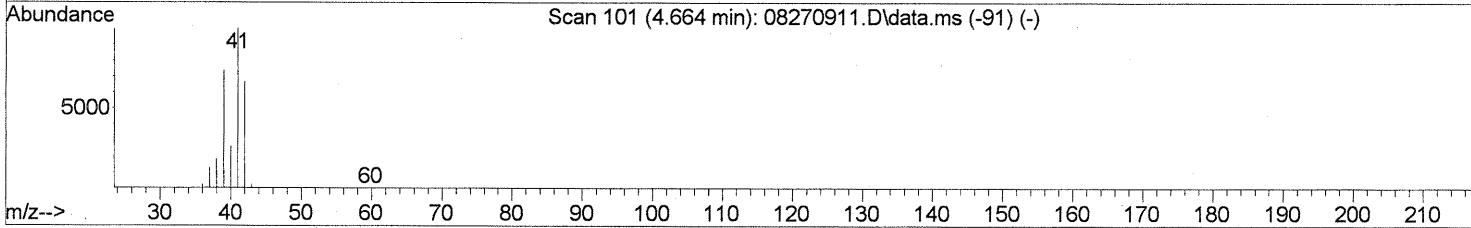
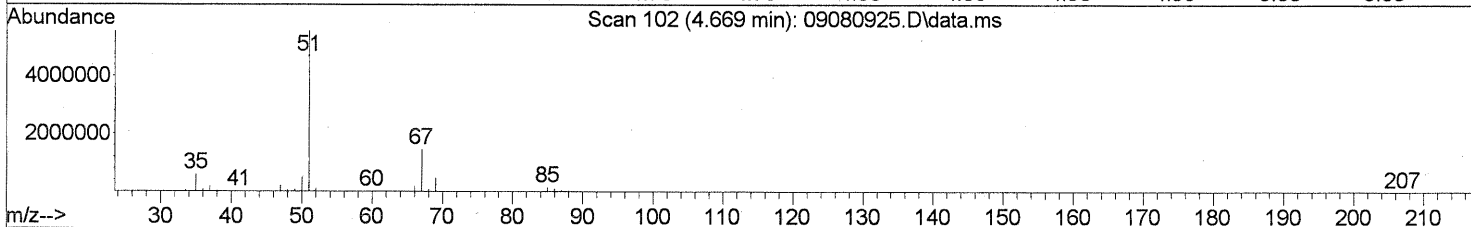
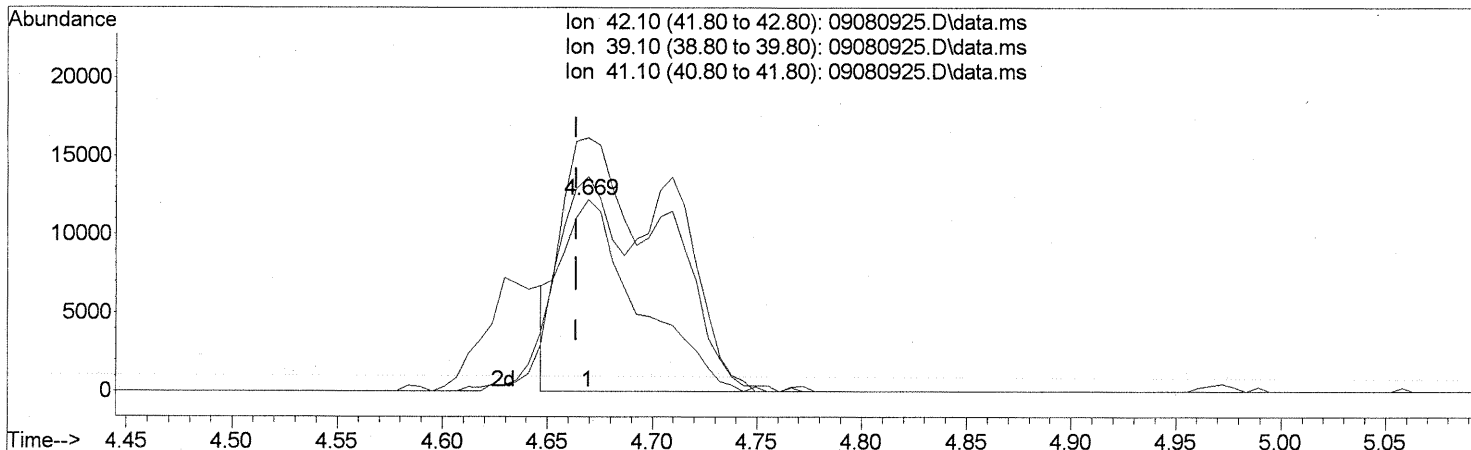
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	1734	0.051	ng	92
81) 2-Ethyltoluene	24.55	105	81217	1.004	ng	100
82) 1,2,4-Trimethylbenzene	24.82	105	383036	5.796	ng	91
83) n-Decane	24.93	57	589375	14.937	ng	96
84) Benzyl Chloride	24.99	91	2593	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	2688	0.075	ng	100
86) 1,4-Dichlorobenzene	25.10	146	2688	0.072	ng	100
87) sec-Butylbenzene	25.16	105	41436	0.459	ng	91
88) 4-Isopropyltoluene (p-...	25.35	119	129104	1.587	ng	94
89) 1,2,3-Trimethylbenzene	25.35	105	151745	2.191	ng	97
90) 1,2-Dichlorobenzene	25.53	146	211	N.D.		
91) d-Limonene	25.53	68	177695	6.736	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.46	157	676	0.058	ng	# 1
93) n-Undecane	26.46	57	160589	3.921	ng	88
94) 1,2,4-Trichlorobenzene	27.59	180	473	N.D.		
95) Naphthalene	27.72	128	363127	3.976	ng	100
96) n-Dodecane	27.69	57	32368	0.693	ng	91
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	119072	4.345	ng	95
99) tert-Butylbenzene	24.83	119	46868	0.732	ng	# 57
100) n-Butylbenzene	25.85	91	60391	0.821	ng	# 60

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(2) Propene (T)
 4.669min (+0.006) 1.50ng
 response 31873

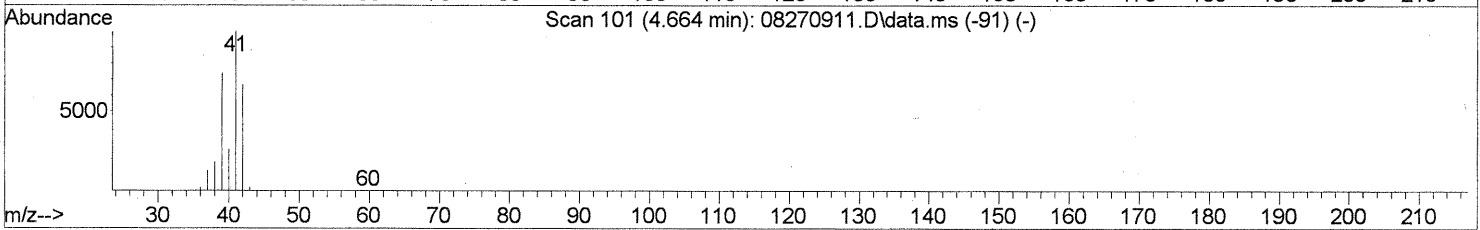
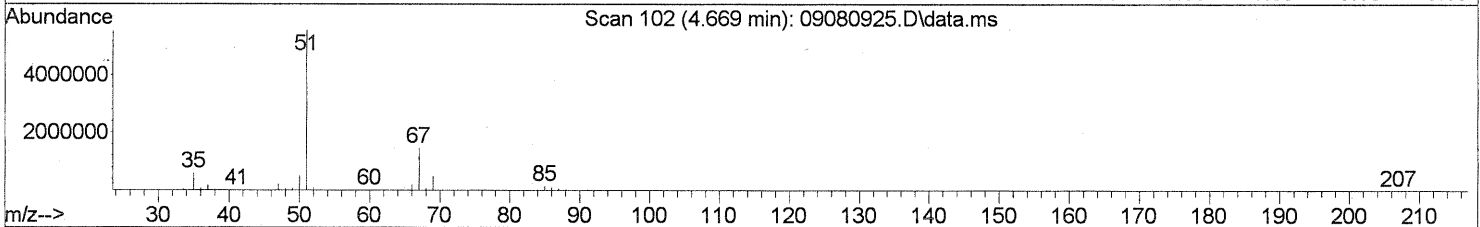
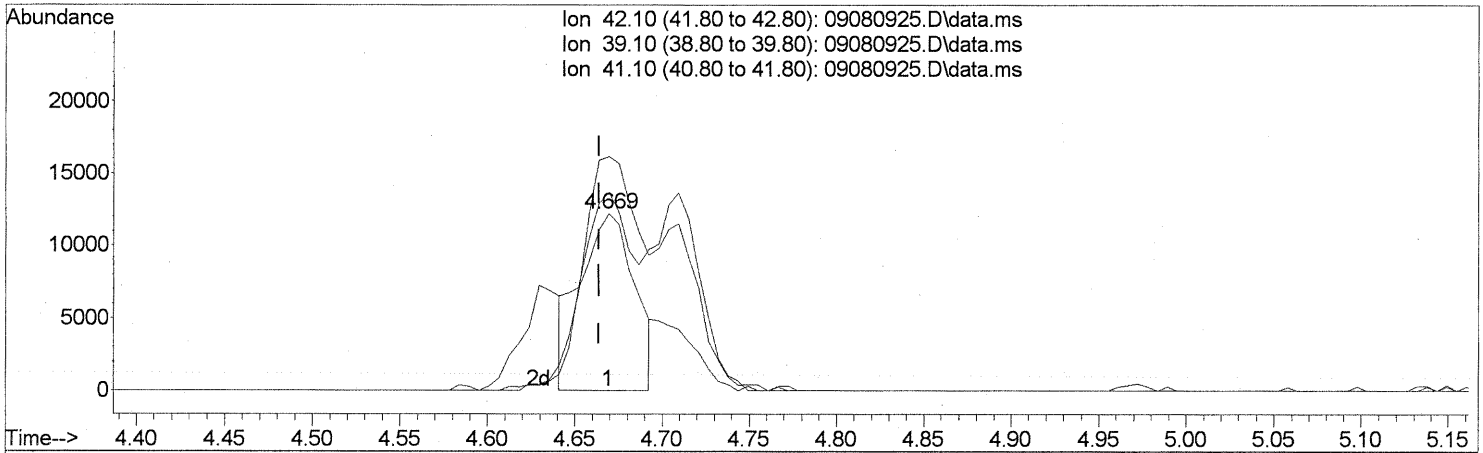
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	167.50#
41.10	149.80	176.31#
0.00	0.00	0.00

SH.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
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 Acq On : 9 Sep 2009 3:44
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 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 11 17:04:57 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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TIC: 09080925.D\data.ms

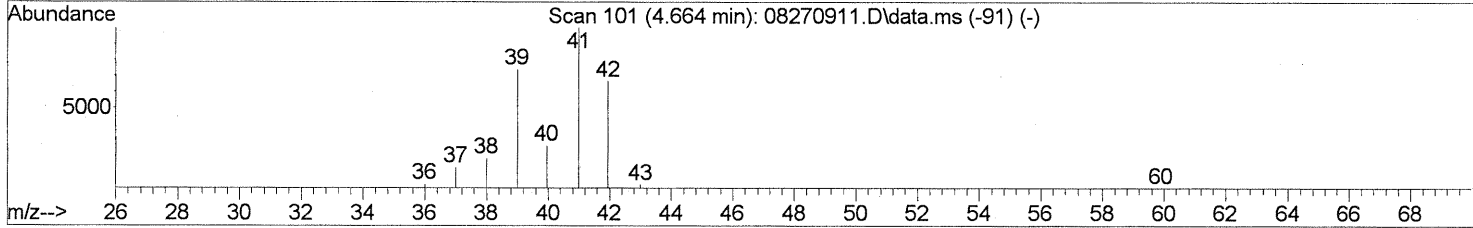
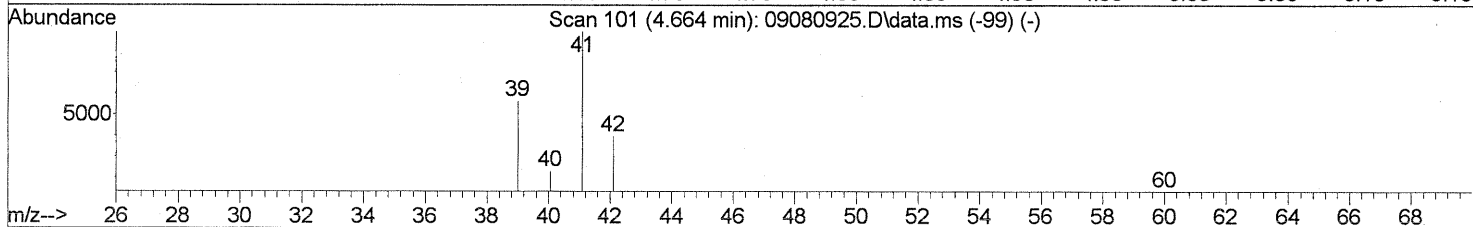
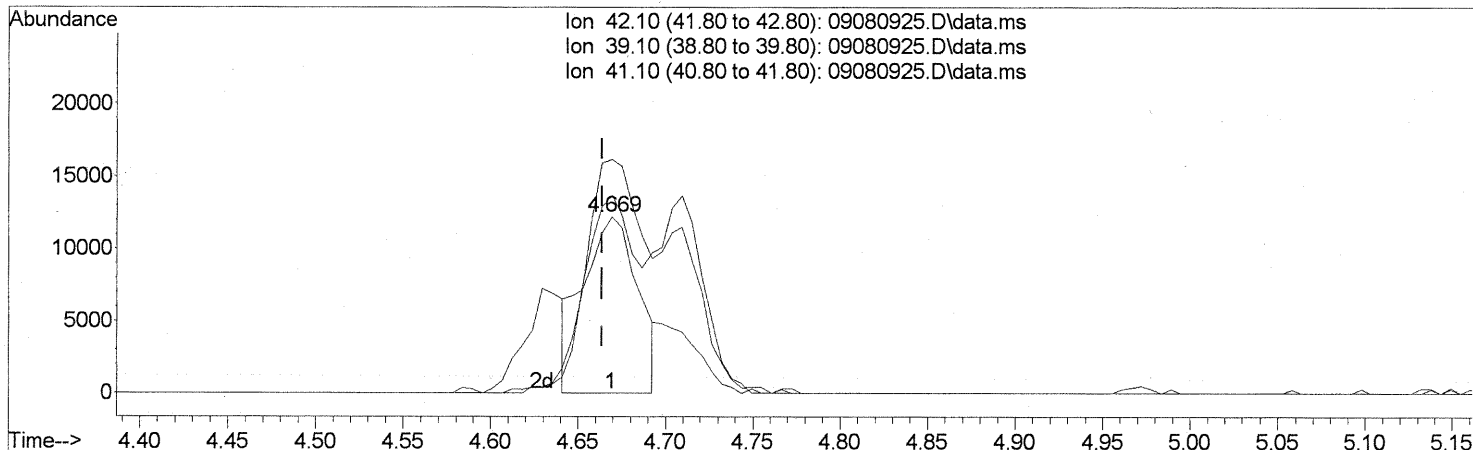
(2) Propene (T)		
4.669min (+0.006) 1.25ng m		
response 26506		
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	201.42#
41.10	149.80	212.00#
0.00	0.00	0.00

SH → IC
Bejara subtr.
m 9/15/09
m 9/15/09

Quantitation Report (Qedit)

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 Quant Method : J:\MS13\METHODS\R13082709.M
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TIC: 09080925.D\data.ms

(2) Propene (T)
 4.669min (+0.006) 1.25ng m
 response 26506

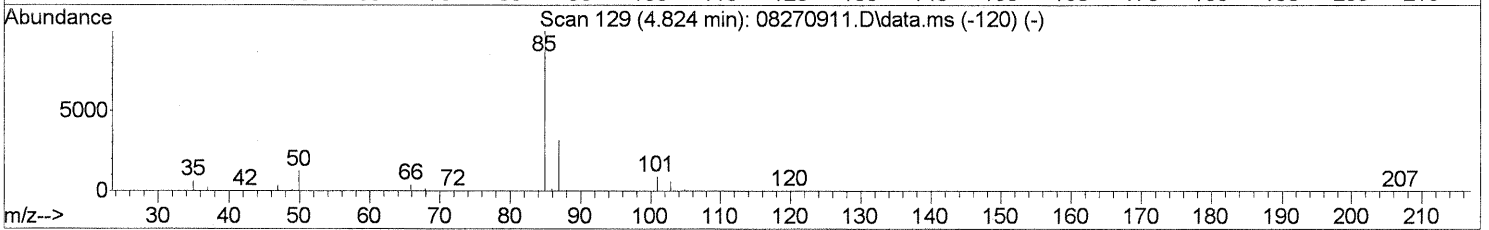
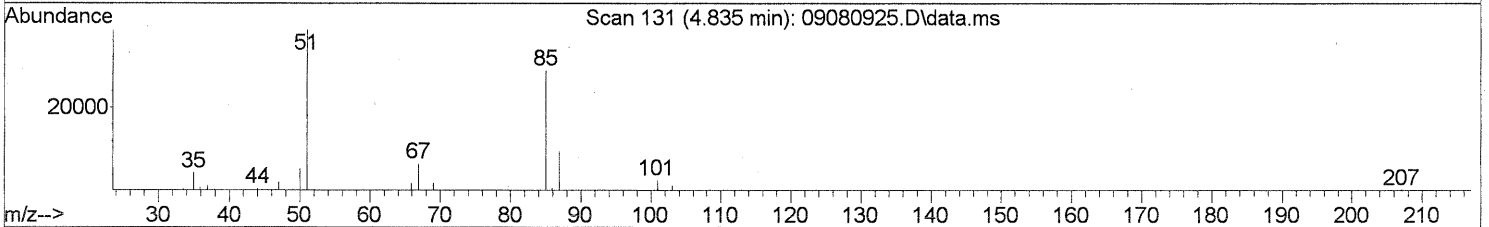
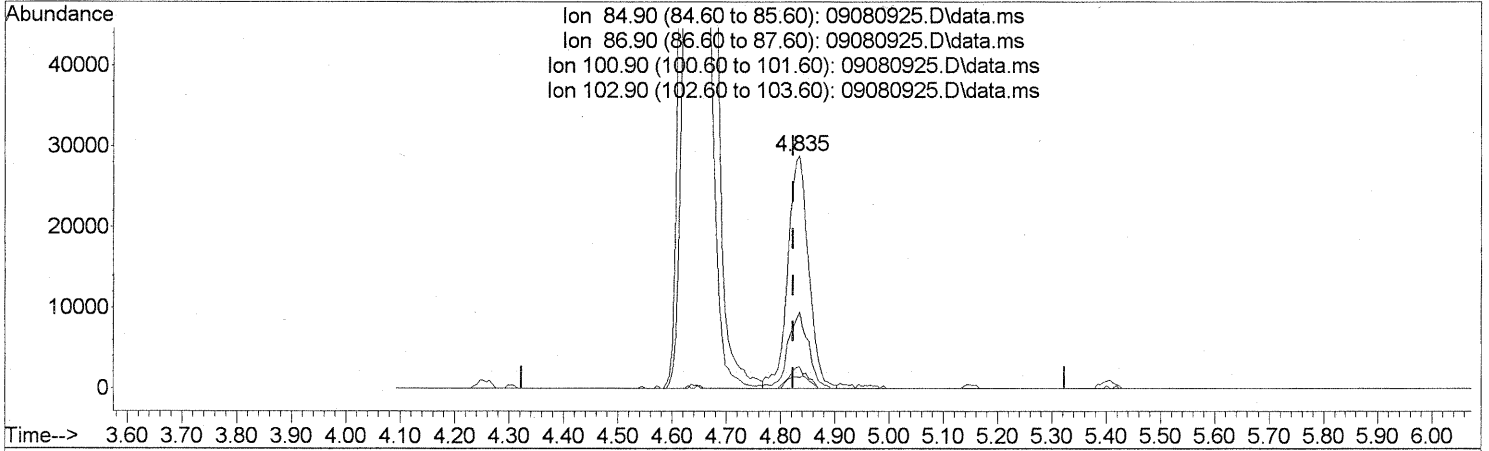
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	201.42#
41.10	149.80	212.00#
0.00	0.00	0.00

SH -> IC
After subtr.
11/9/15/09
LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
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Quant Time: Sep 09 10:13:50 2009
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TIC: 09080925.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.835min (+0.011) 2.06ng

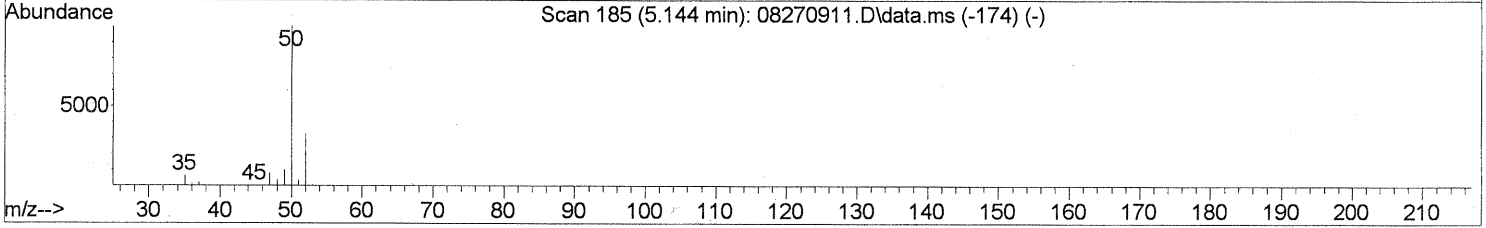
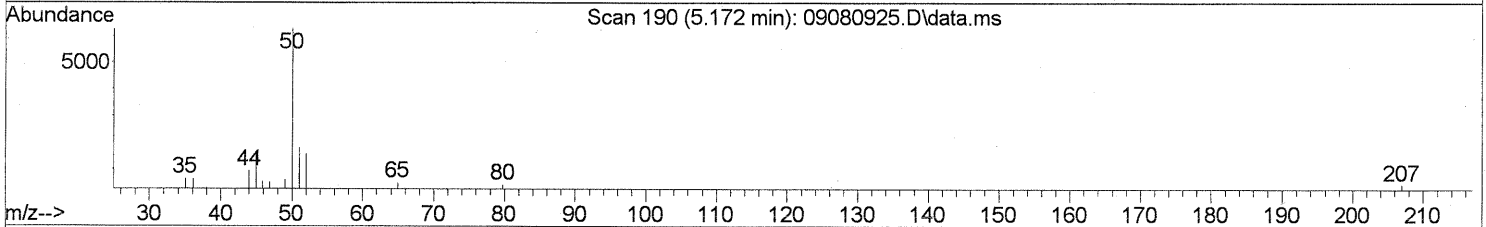
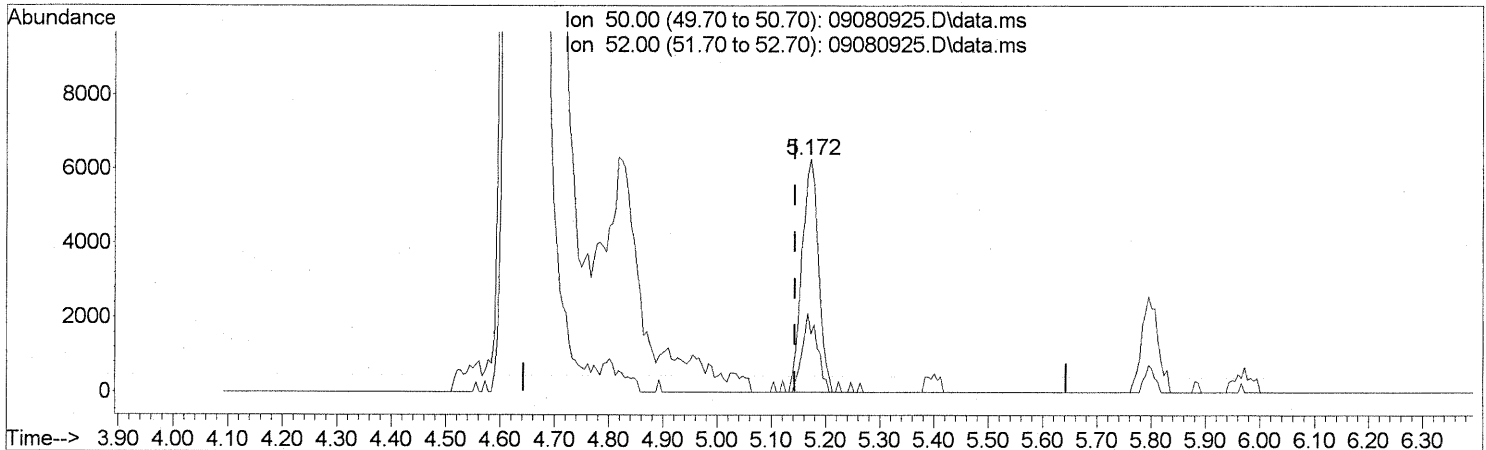
response 76689

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.36
100.90	8.80	7.95
102.90	5.60	5.28

Quantitation Report (Qedit)

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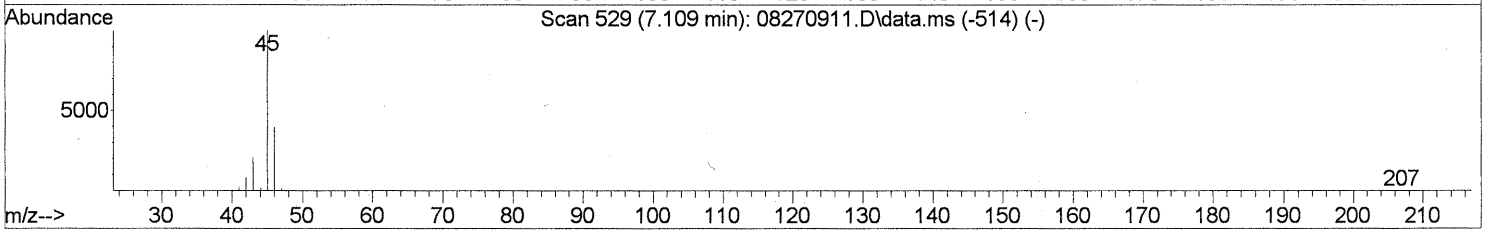
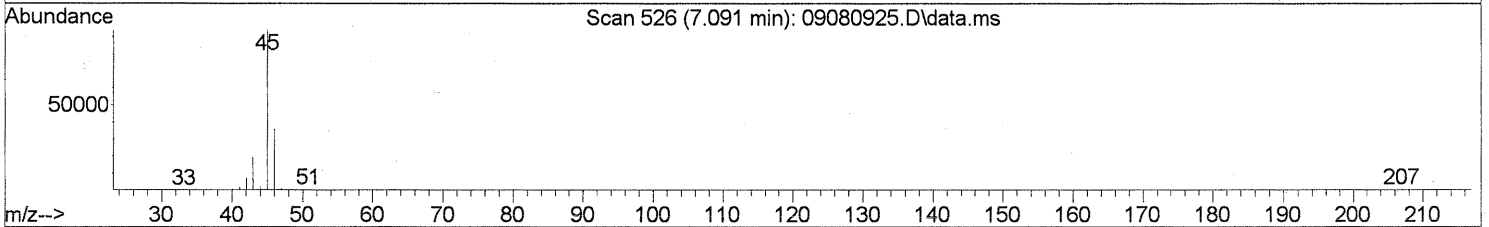
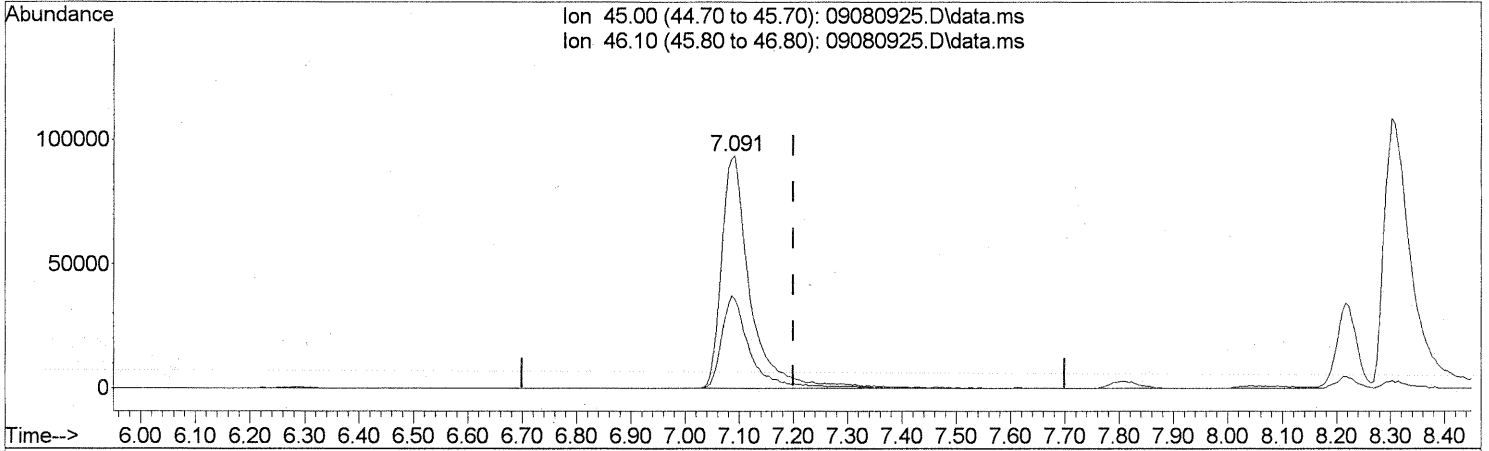
TIC: 09080925.D\data.ms

(4) Chloromethane (T)		
5.172min (+0.029) 0.53ng		
response 13288		
Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
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 Operator : LM/CC
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 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
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TIC: 09080925.D\data.ms

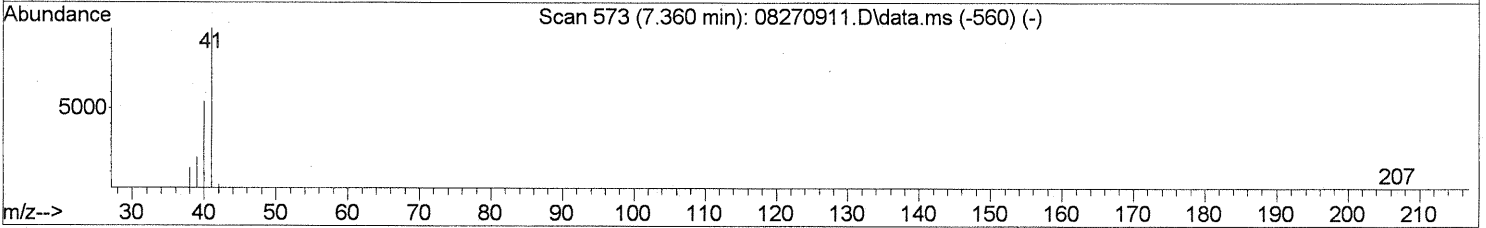
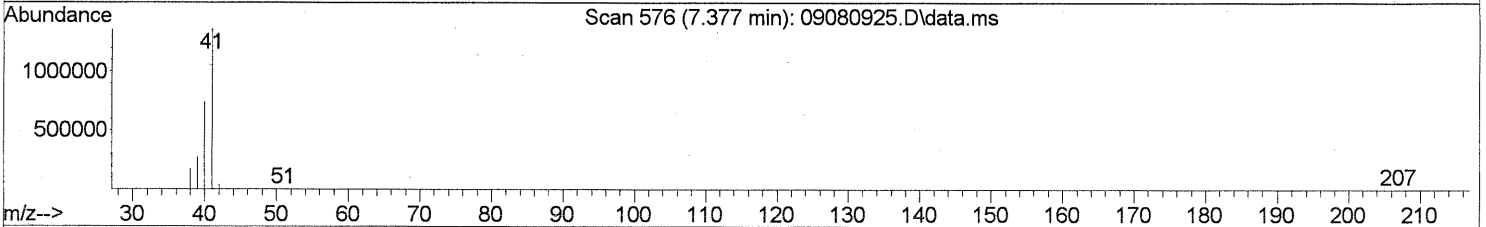
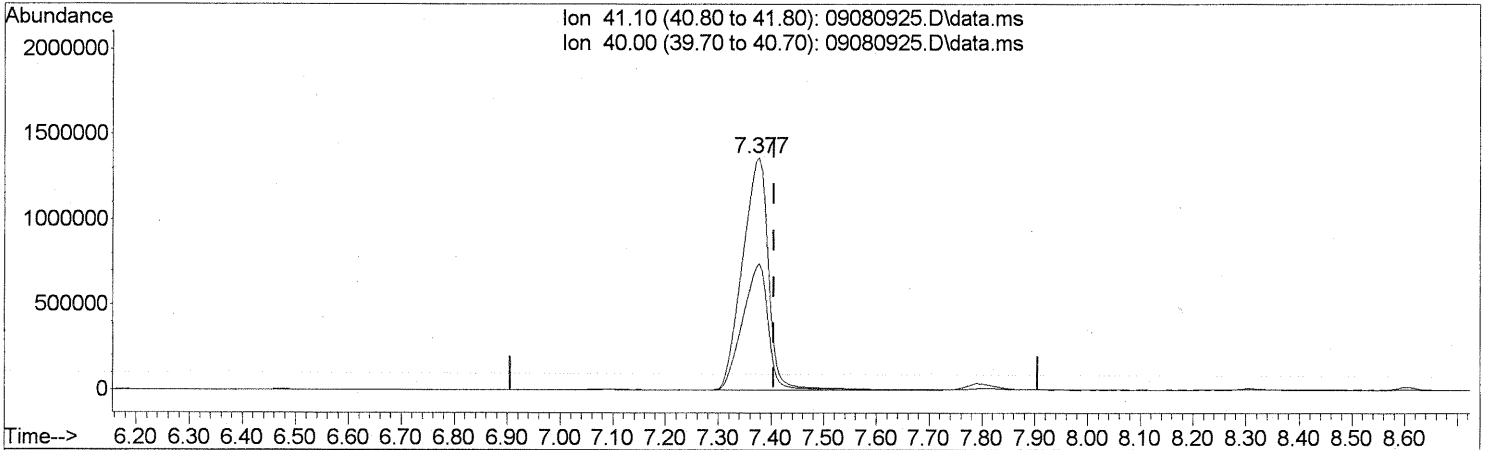
(10) Ethanol (T)
 7.091min (-0.109) 26.07ng
 response 343342

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	38.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
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 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(11) Acetonitrile (T)

7.377min (-0.029) 127.64ng *E*

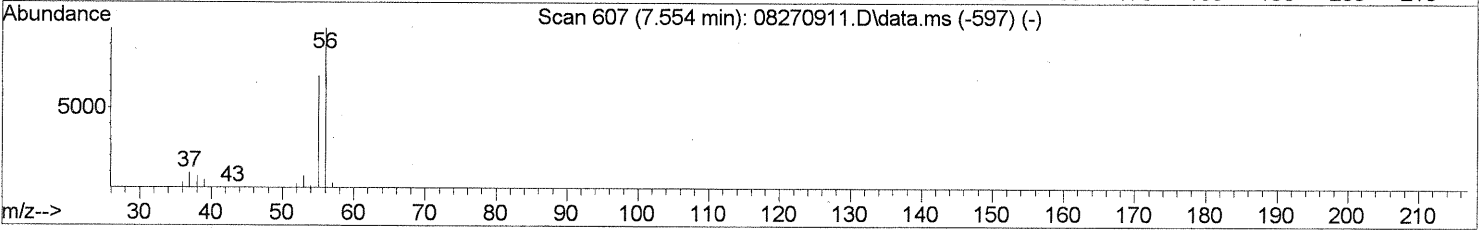
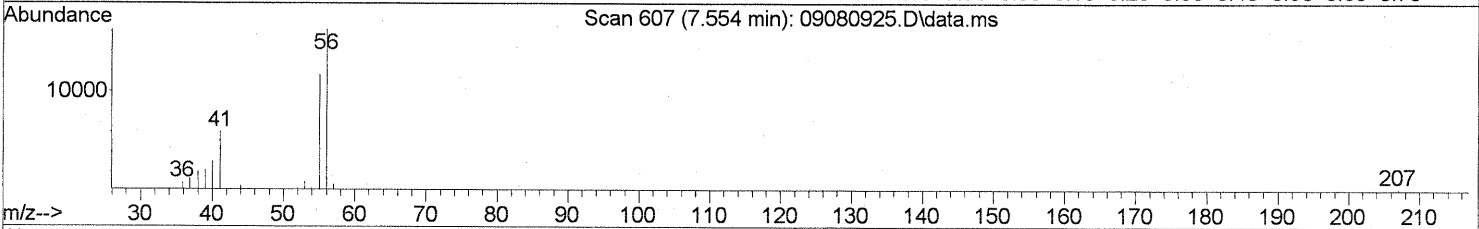
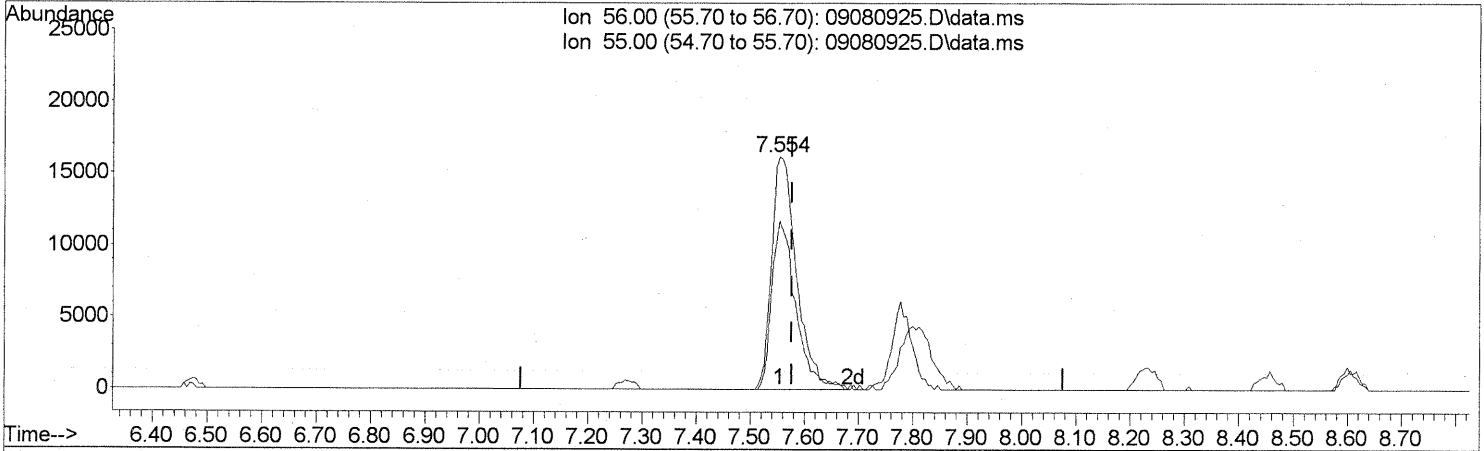
response 4668672

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

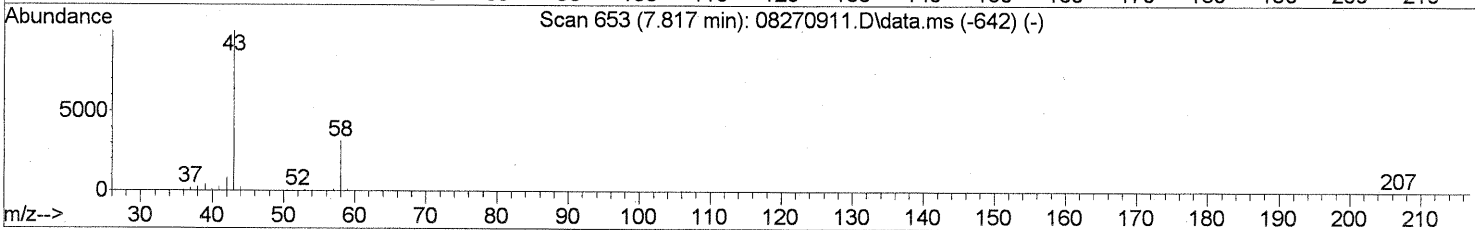
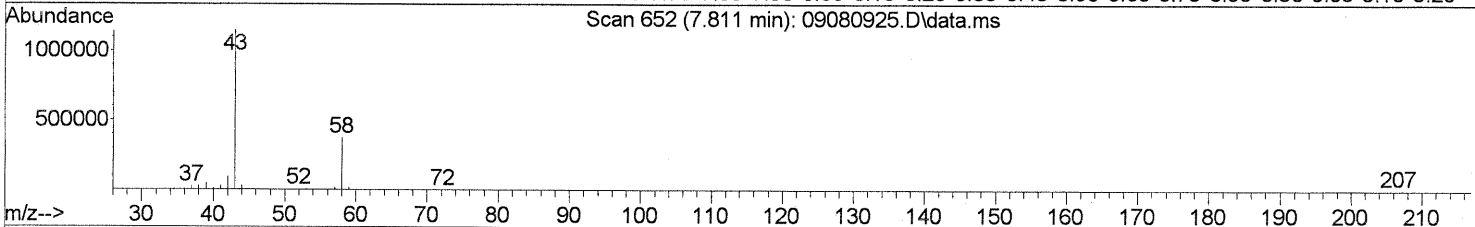
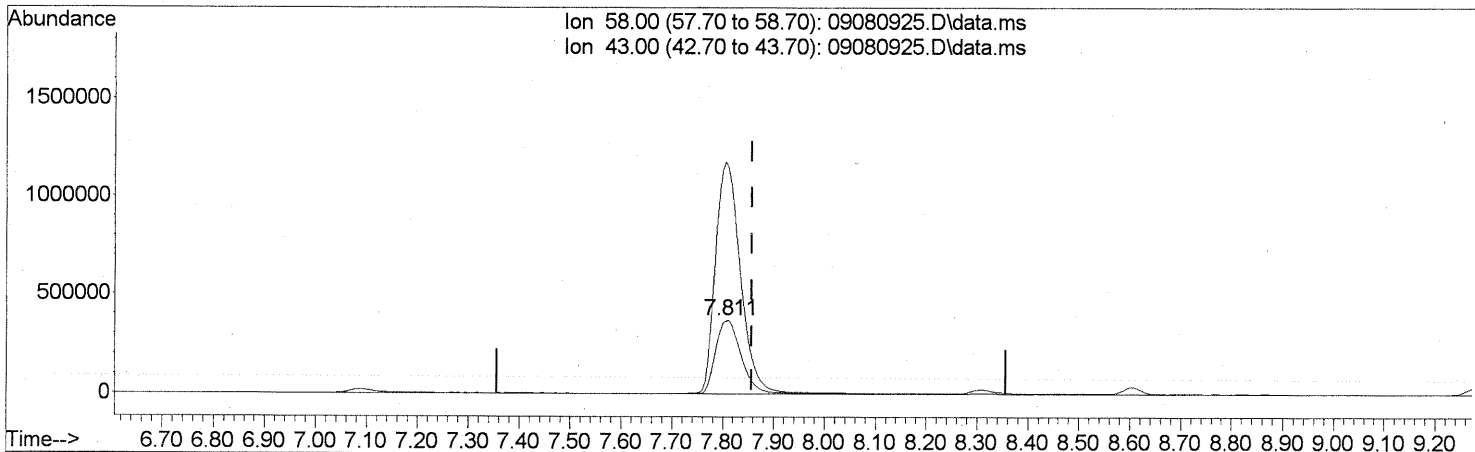
(12) Acrolein (T)
 7.554min (-0.023) 5.17ng
 response 52033

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	69.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

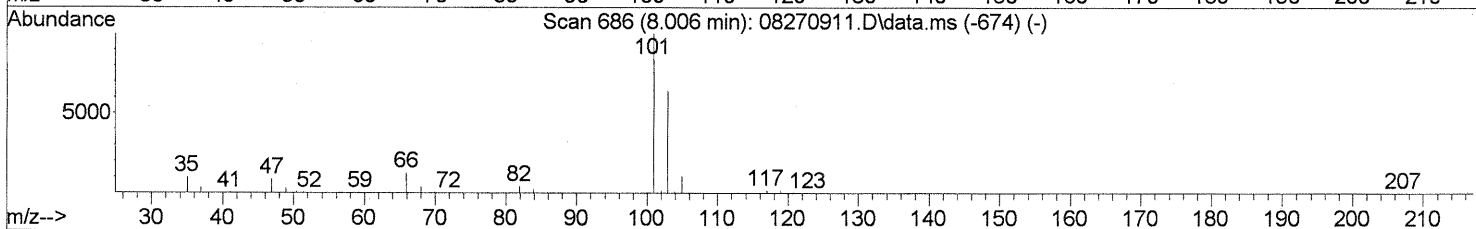
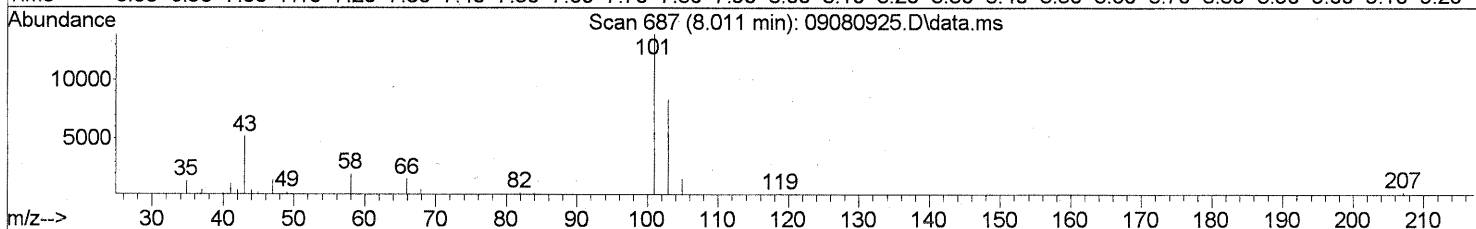
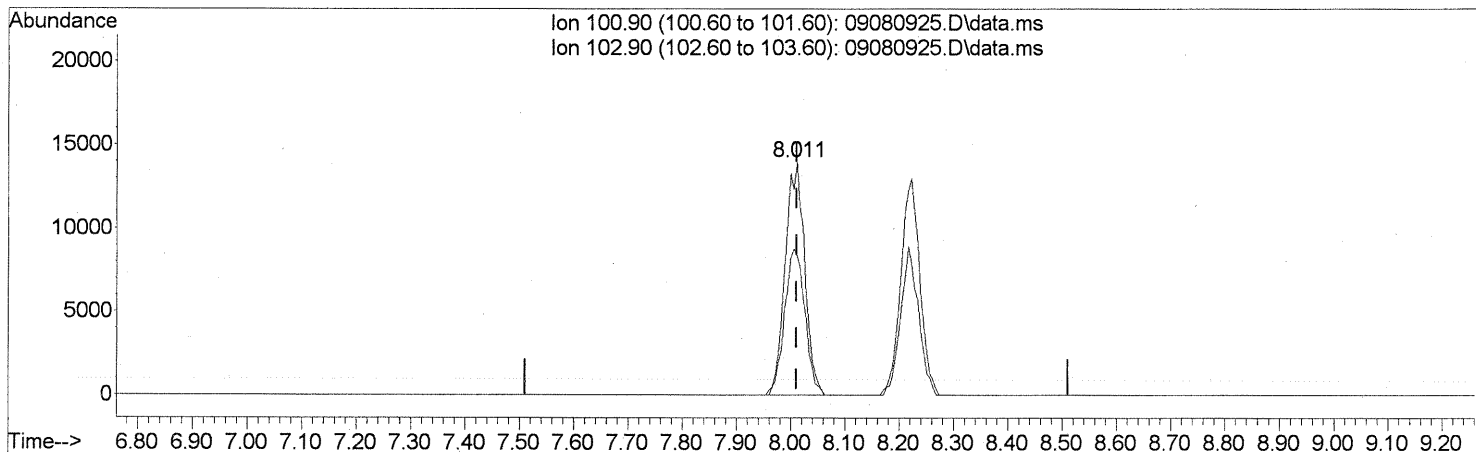
(13) Acetone (T)
 7.811min (-0.046) 95.98ng
 response 1307176

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	312.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(14) Trichlorofluoromethane (T)

8.011min (-0.000) 1.07ng

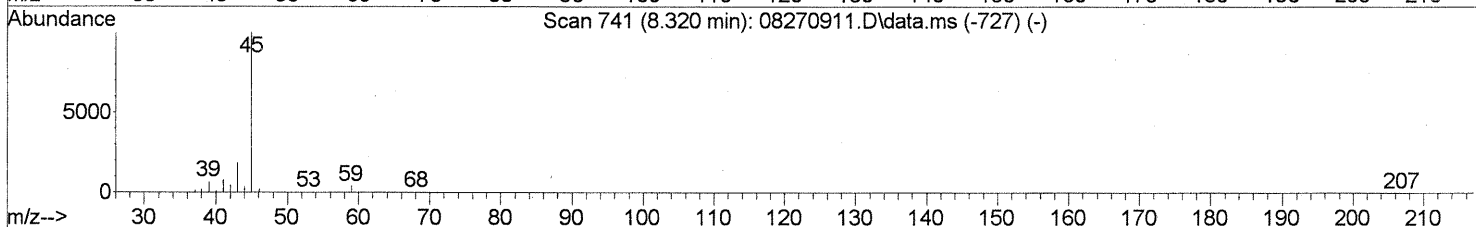
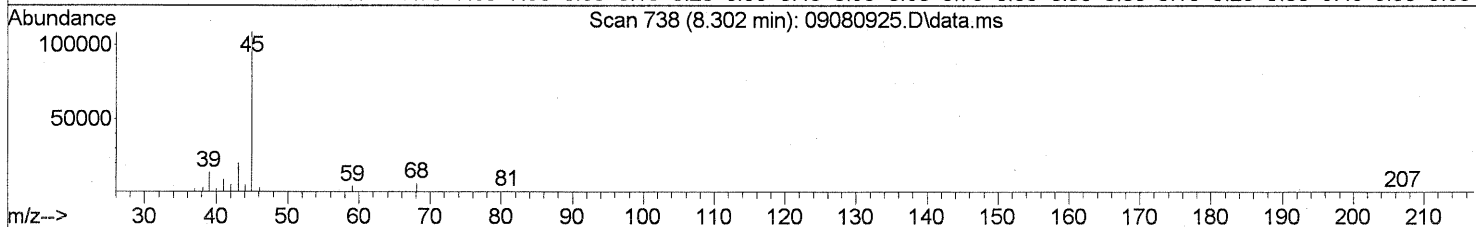
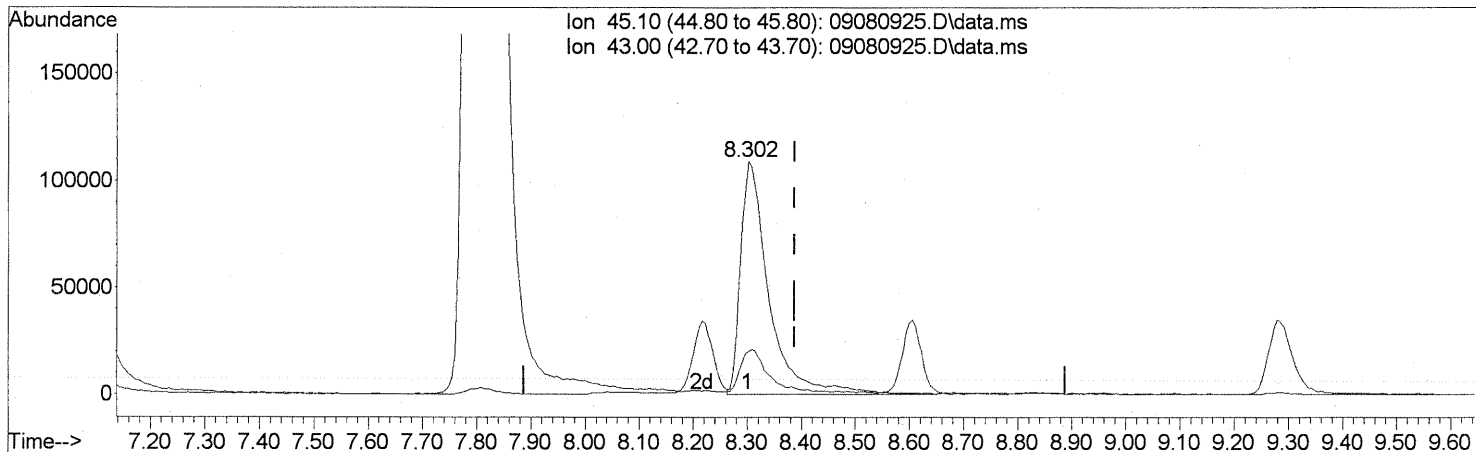
response 34920

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	65.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

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

8.302min (-0.086) 8.74ng

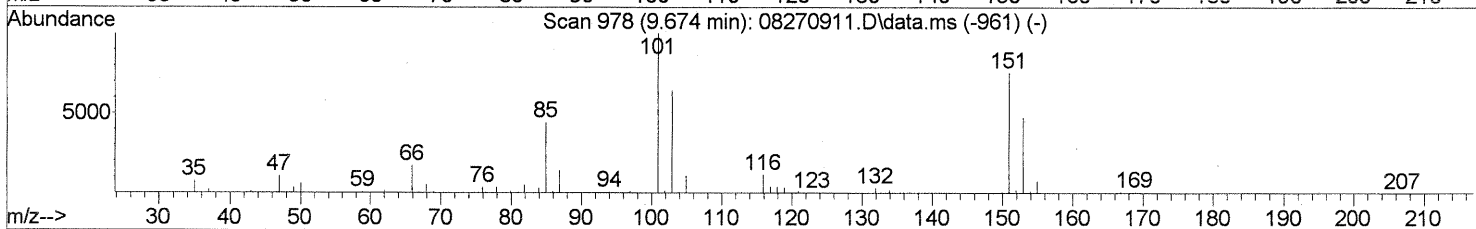
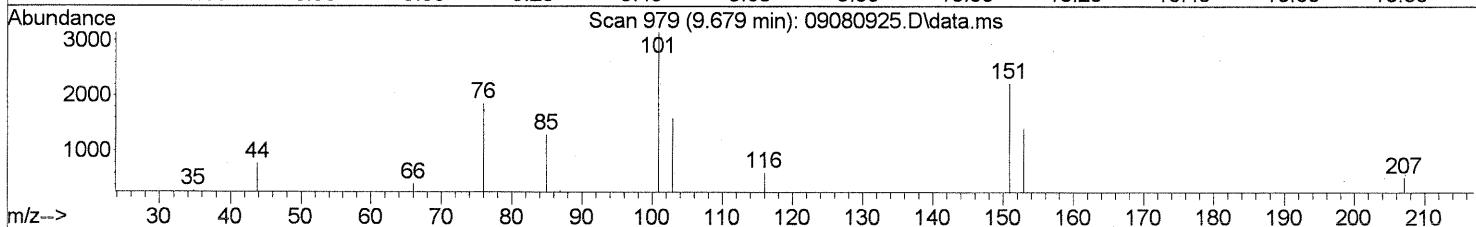
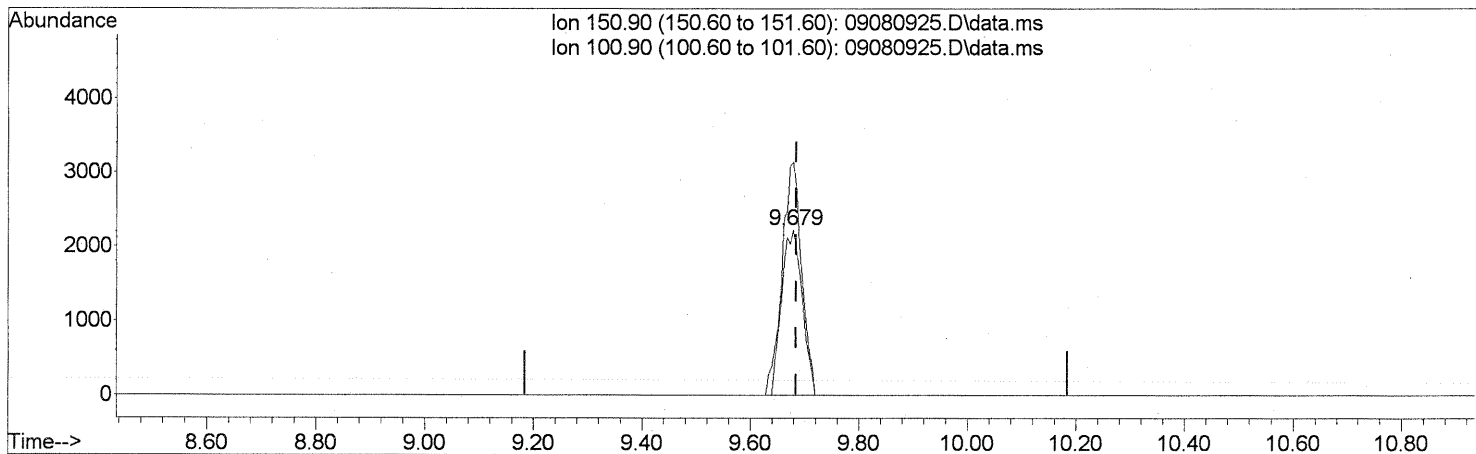
response 395626

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	17.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.45ng

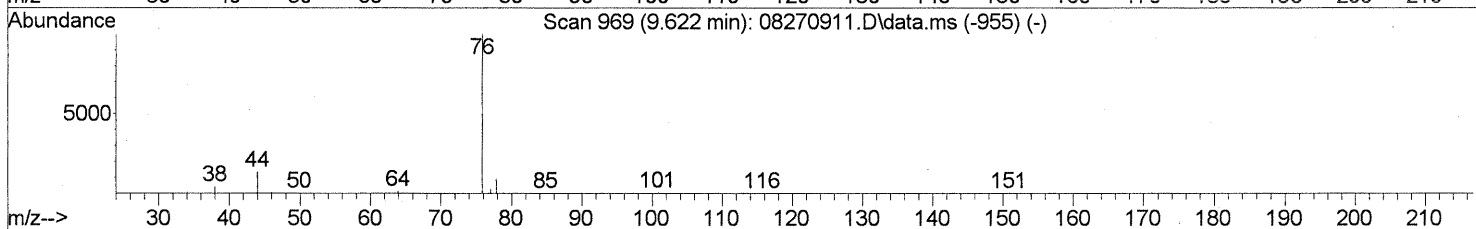
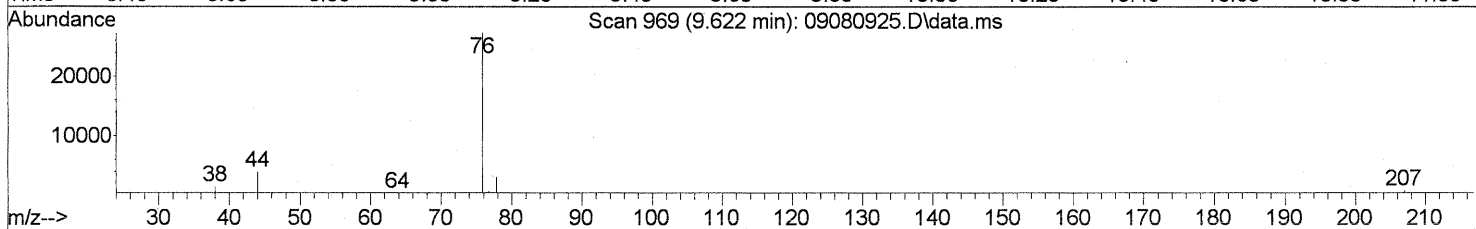
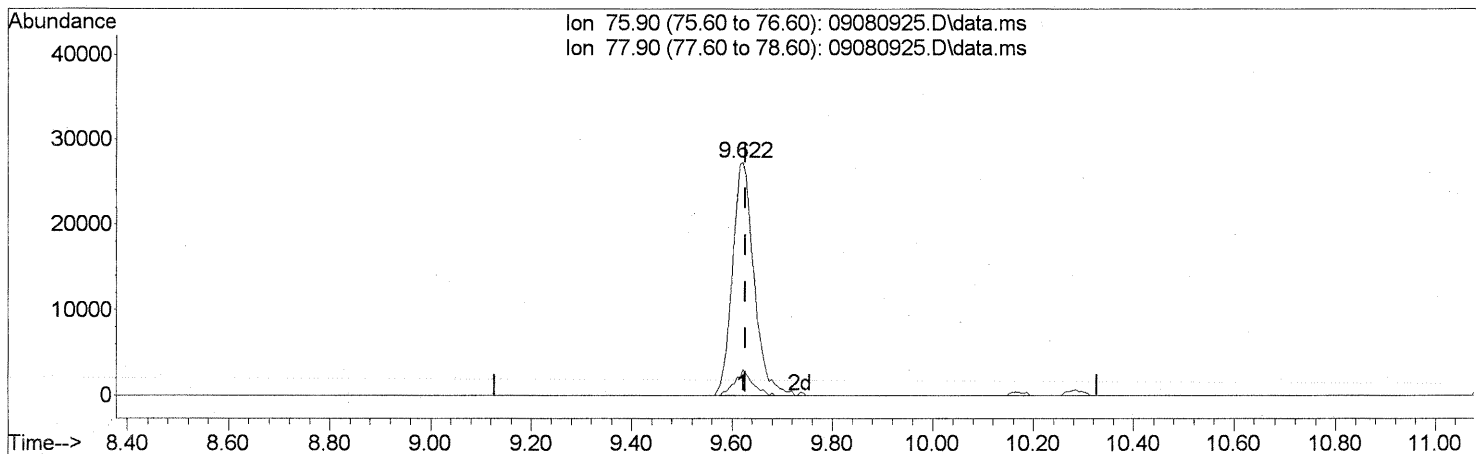
response 5841

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	134.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

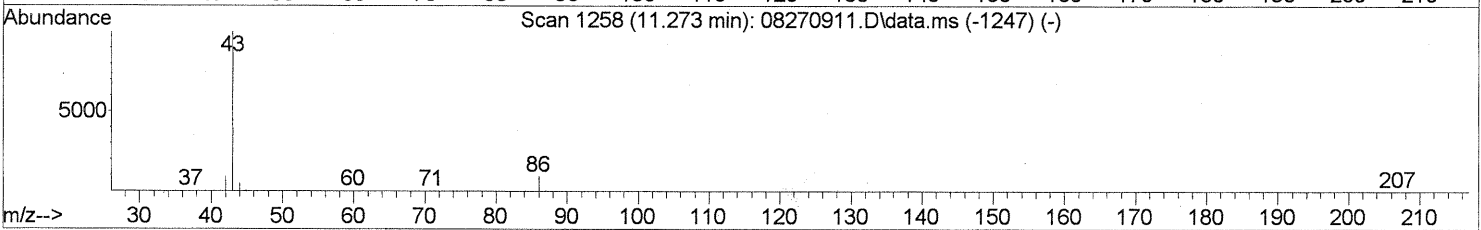
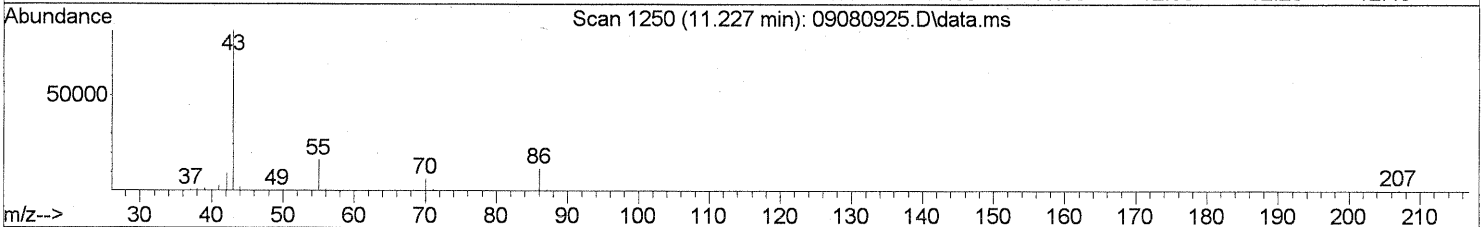
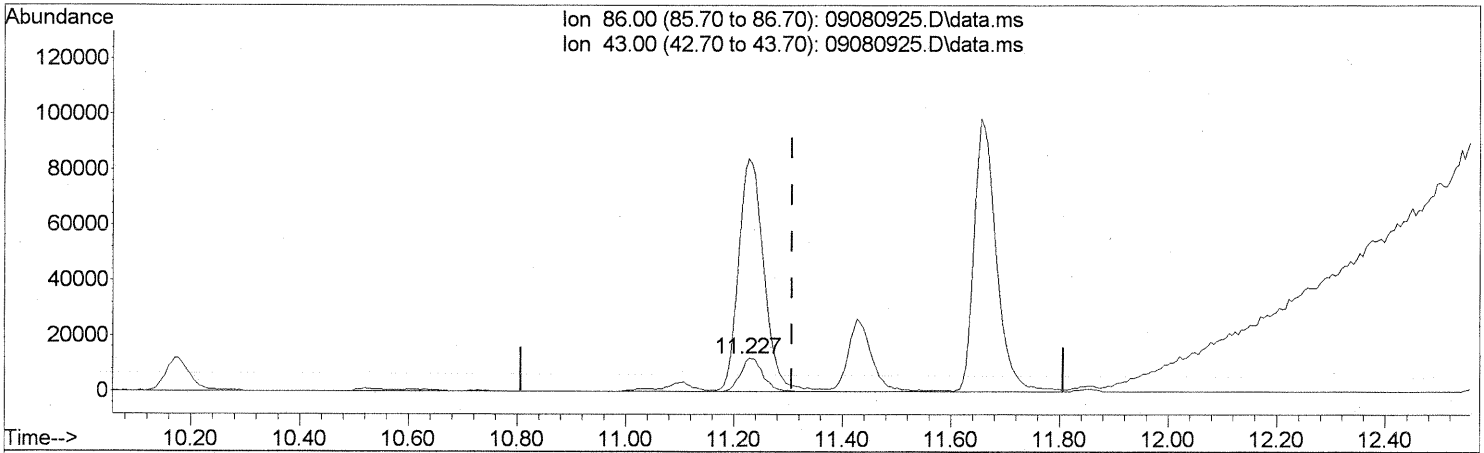
(22) Carbon Disulfide (T)
 9.622min (-0.006) 1.33ng
 response 81504

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	9.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

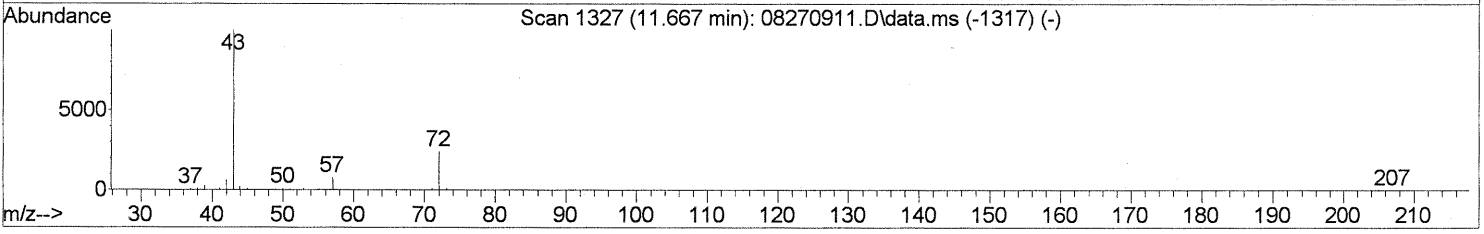
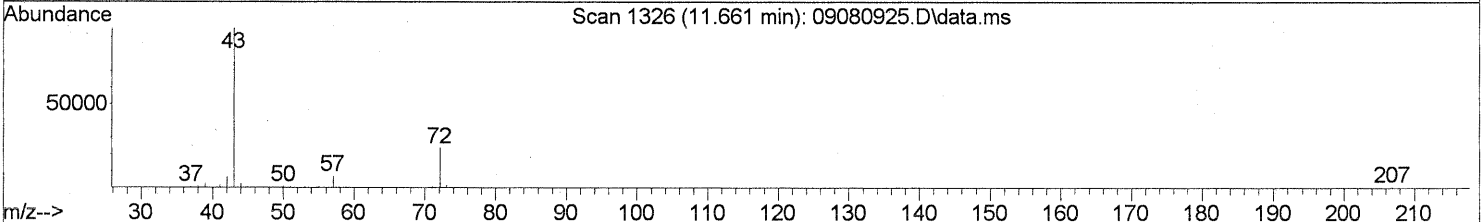
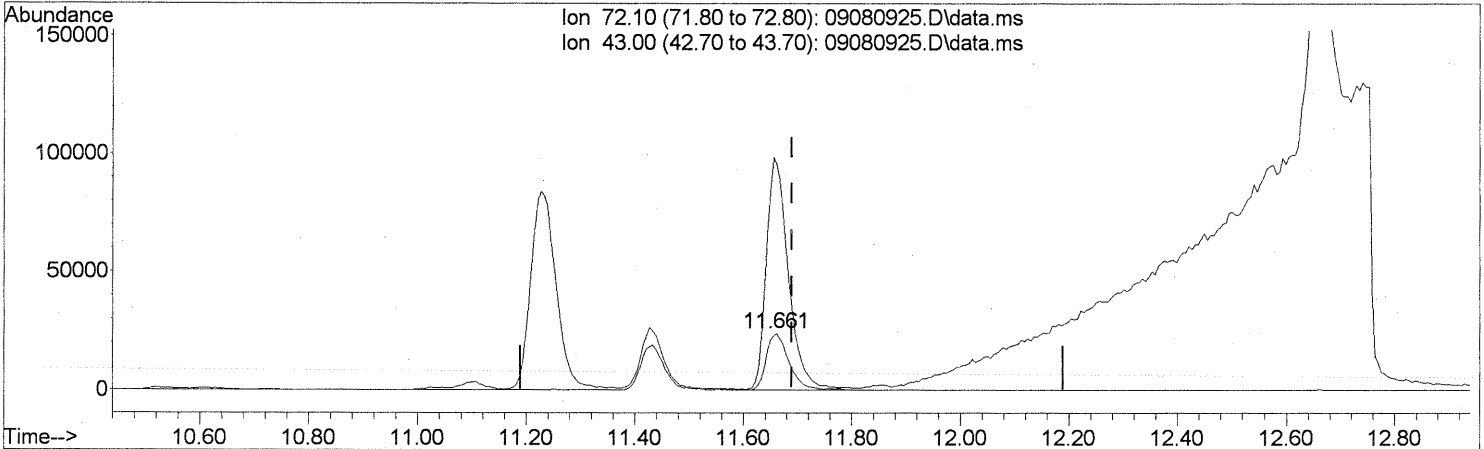
(26) Vinyl Acetate (T)
 11.227min (-0.080) 9.91ng
 response 33830

Ion	Exp%	Act%
86.00	100	100
43.00	1118.60	795.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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TIC: 09080925.D\data.ms

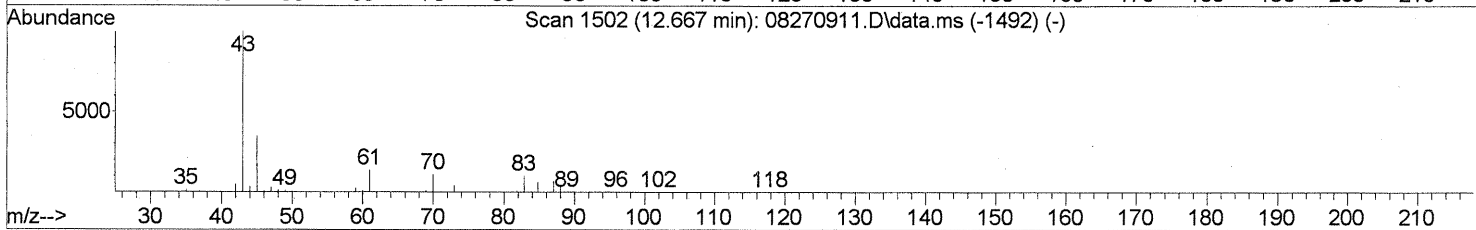
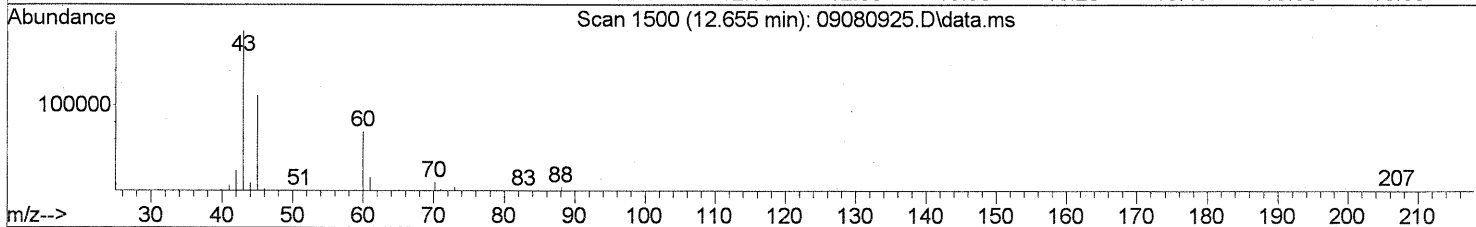
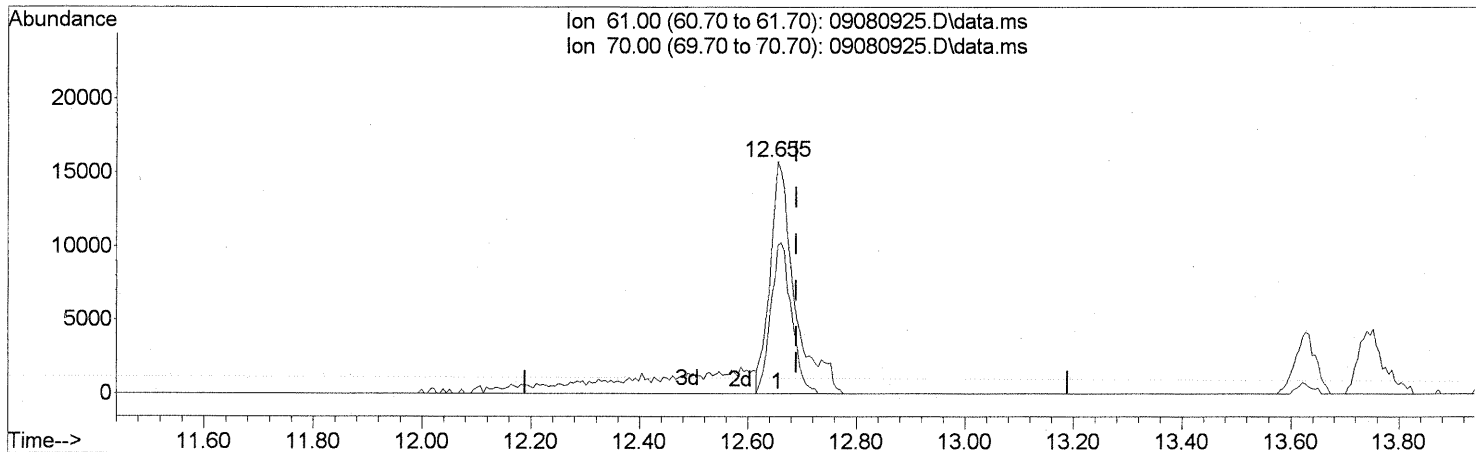
(27) 2-Butanone (MEK) (T)
 11.661min (-0.029) 6.26ng
 response 68900

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	407.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

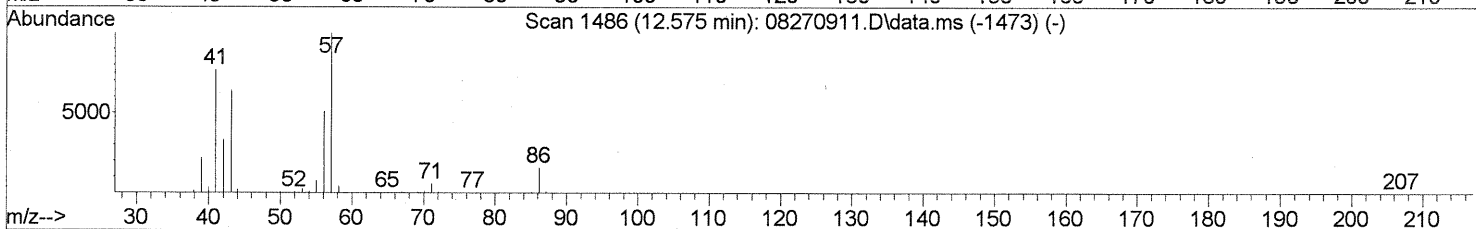
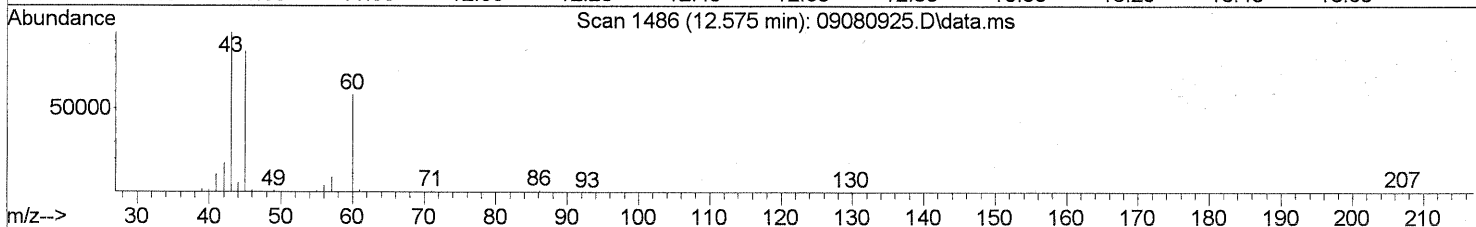
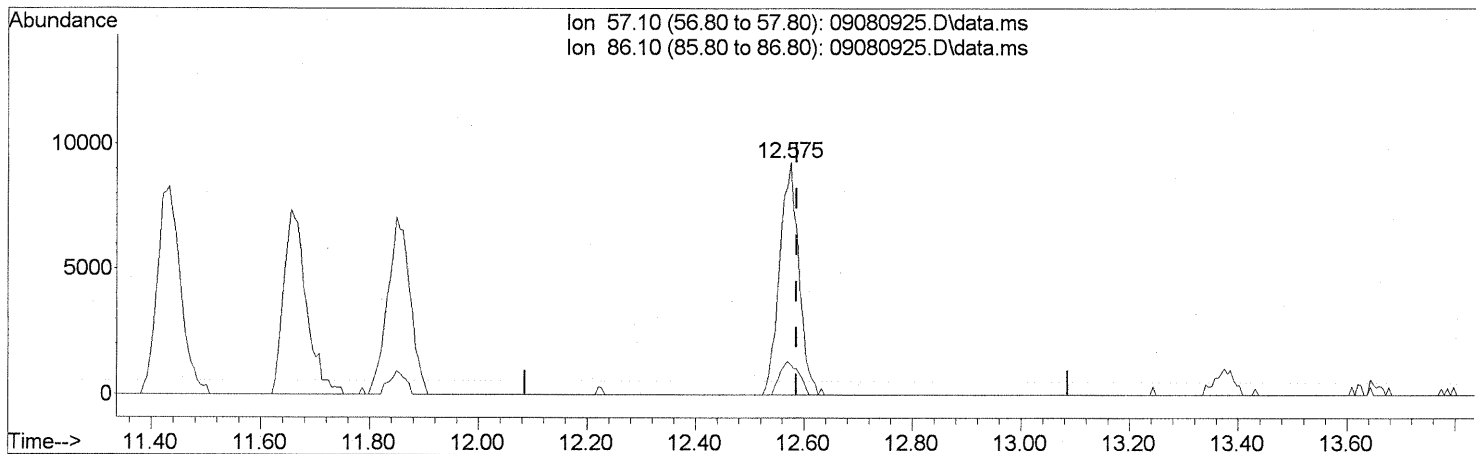
(30) Ethyl Acetate (T)
 12.655min (-0.034) 8.39ng
 response 49617

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	54.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

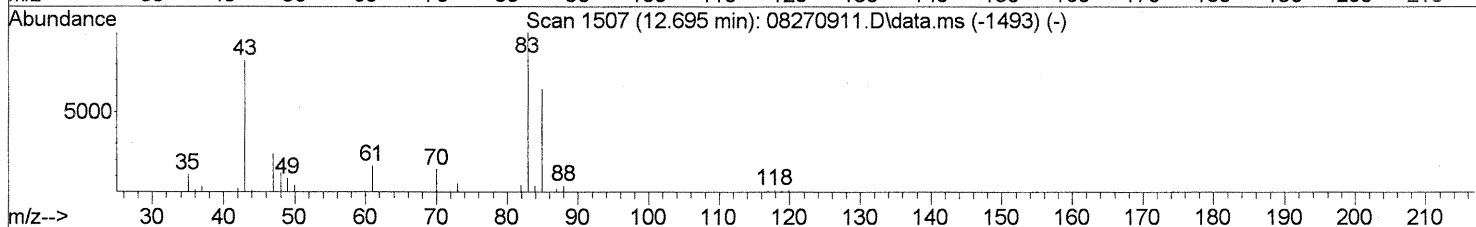
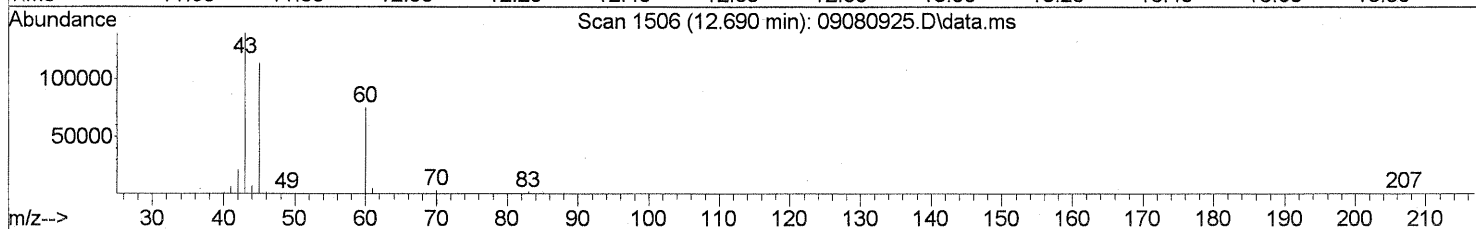
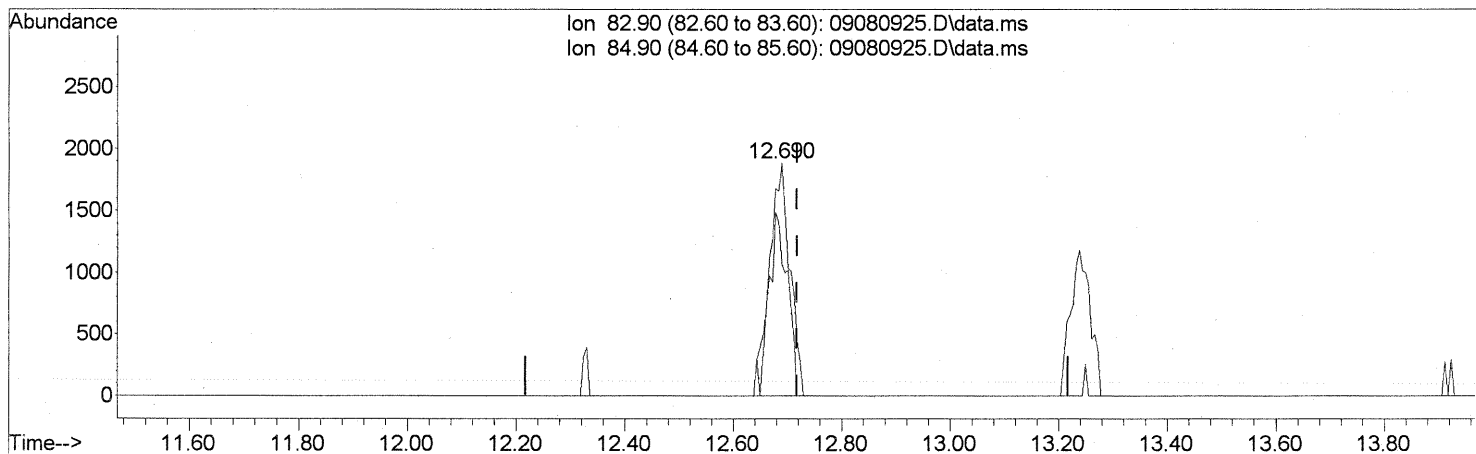
(31) n-Hexane (T)
 12.575min (-0.011) 0.77ng
 response 22768

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	14.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

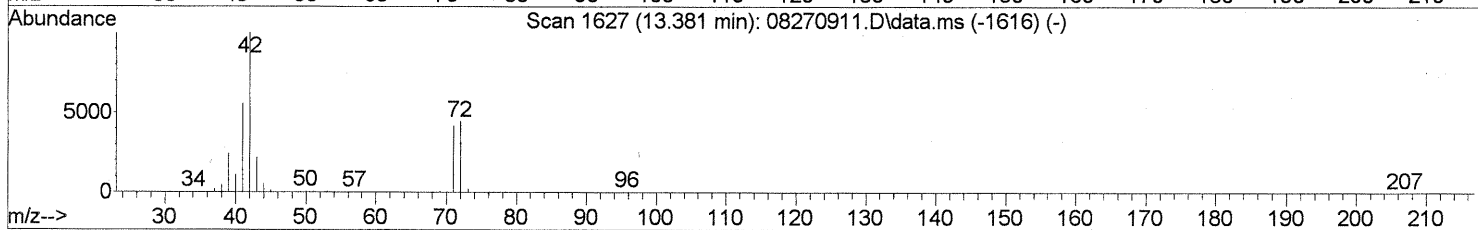
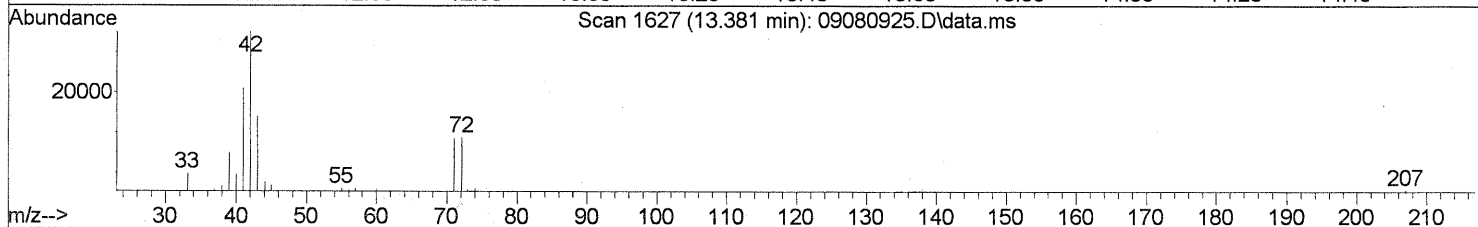
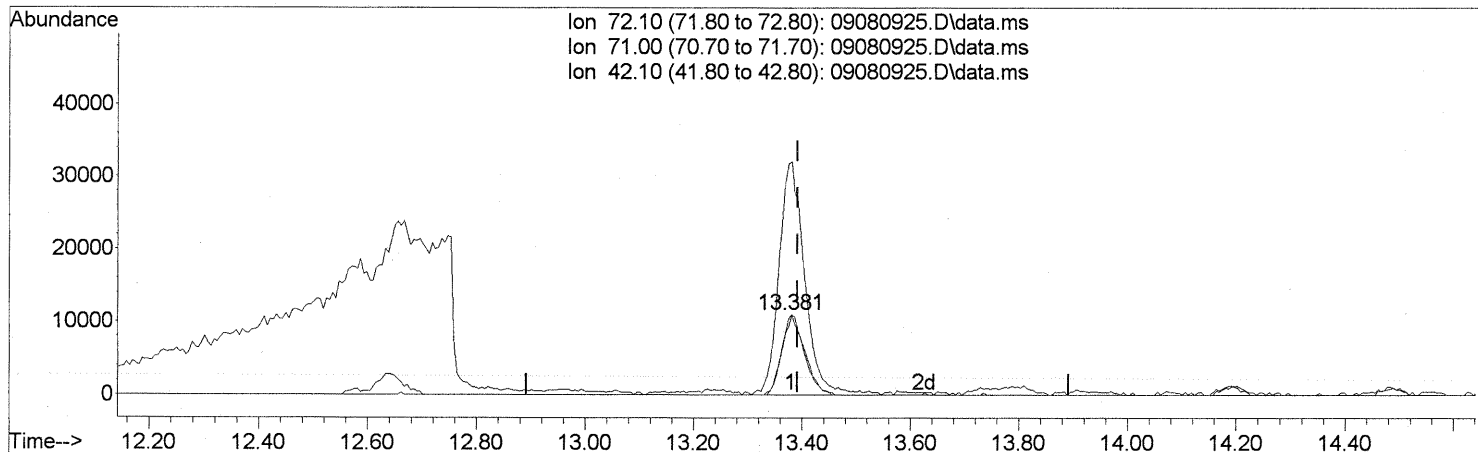
(32) Chloroform (T)
 12.690min (-0.029) 0.17ng
 response 5004

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	71.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 09080925.D\data.ms

(34) Tetrahydrofuran (THF) (T)

13.381min (-0.011) 2.72ng

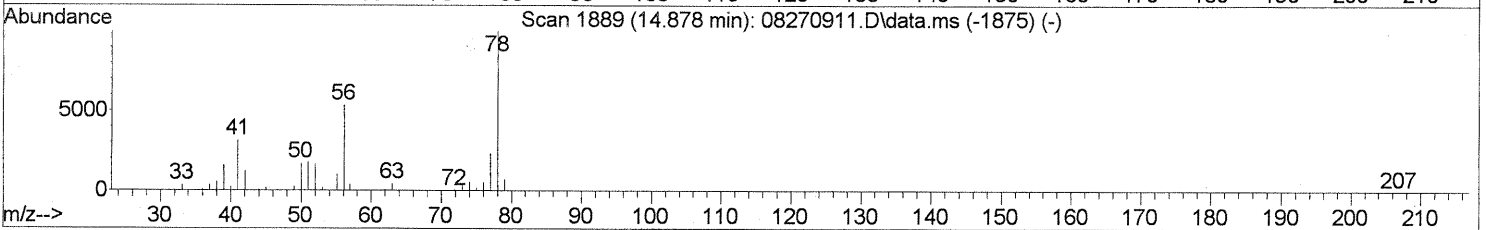
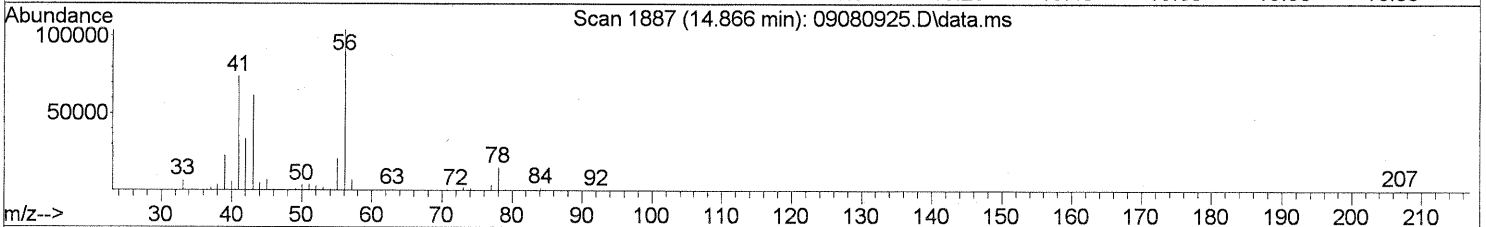
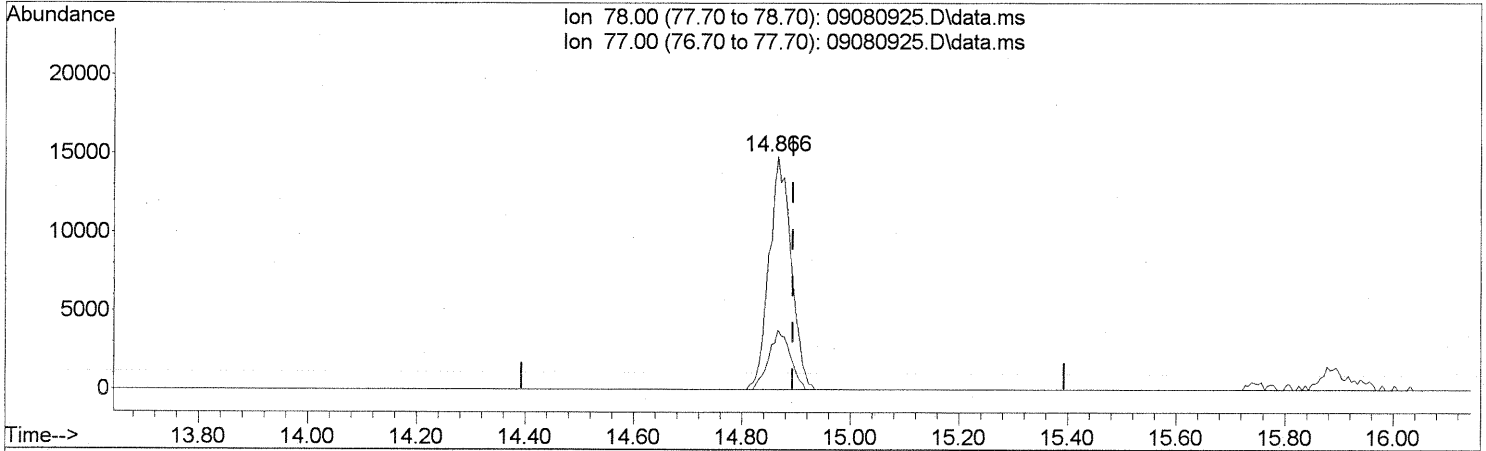
response 32495

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	94.78
42.10	254.10	324.85#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(41) Benzene (T)
 14.866min (-0.029) 0.60ng
 response 41894

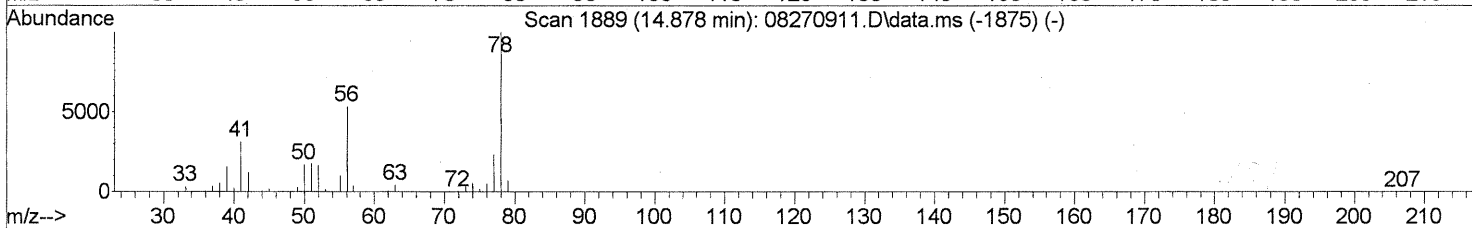
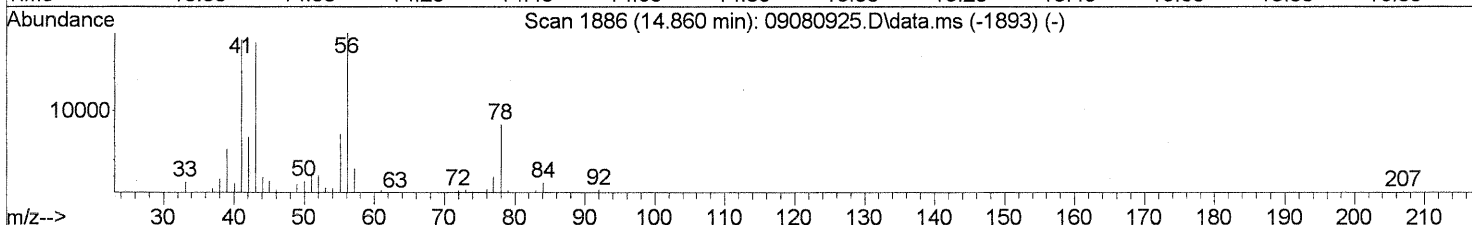
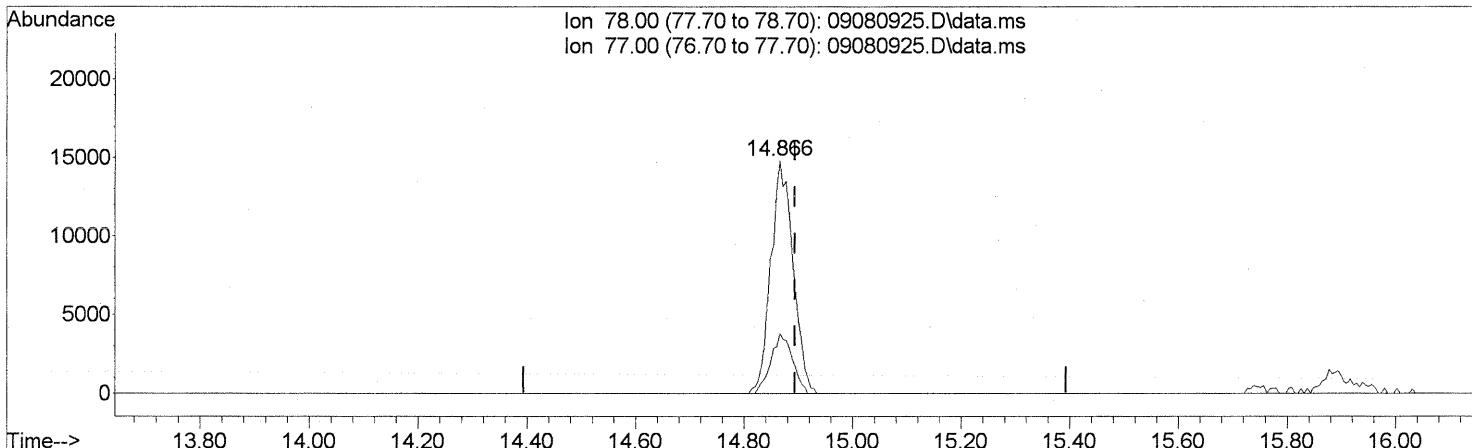
Ion	Exp%	Act%
78.00	100	100
77.00	23.20	24.76
0.00	0.00	0.00
0.00	0.00	0.00

Bejawa subta.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(41) Benzene (T)
 14.866min (-0.029) 0.60ng
 response 41894

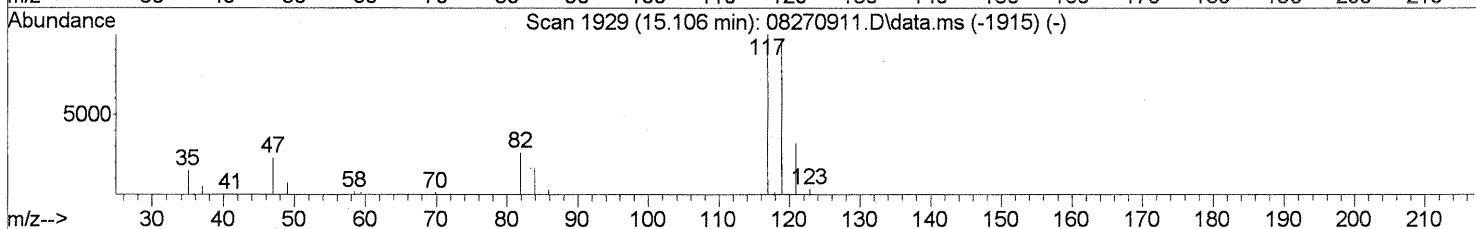
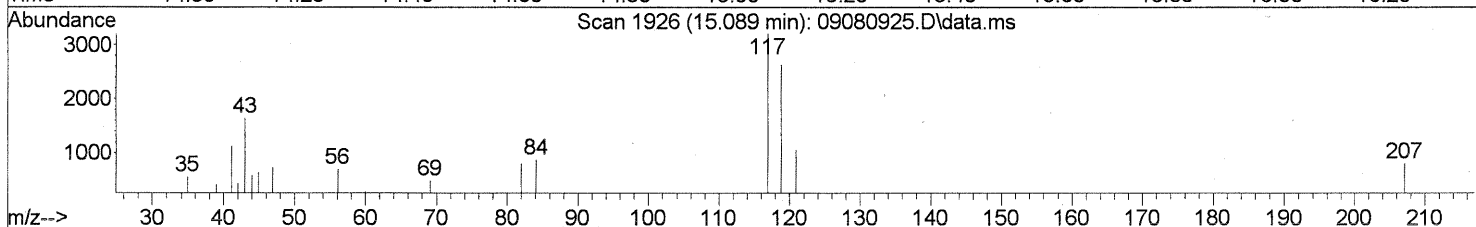
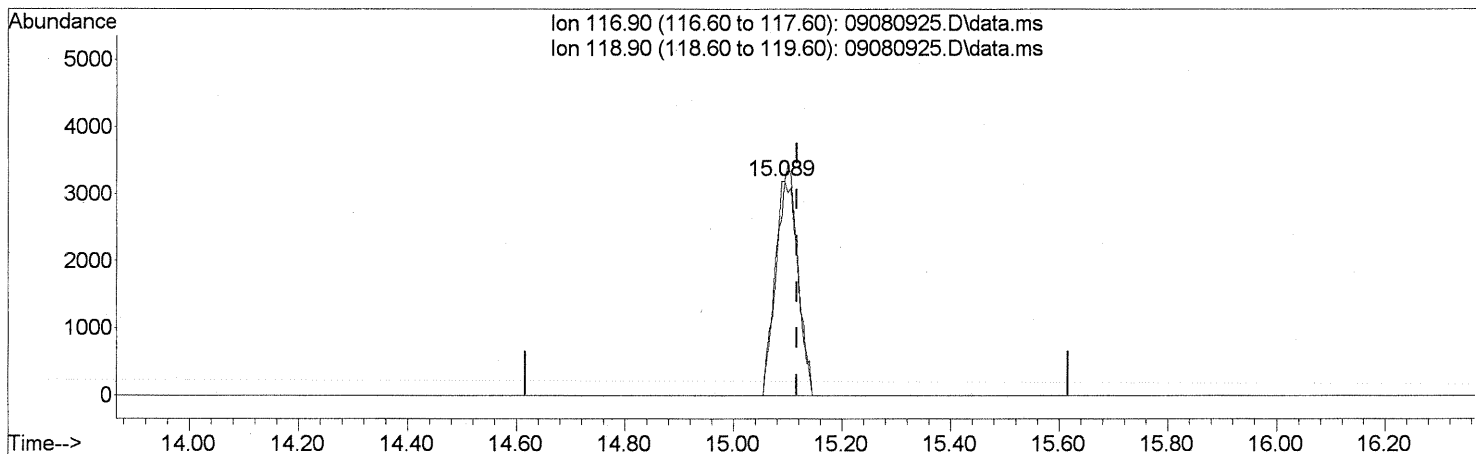
Ion	Exp%	Act%
78.00	100	100
77.00	23.20	24.76
0.00	0.00	0.00
0.00	0.00	0.00

After subtraction.

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(42) Carbon Tetrachloride (T)

15.089min (-0.029) 0.39ng

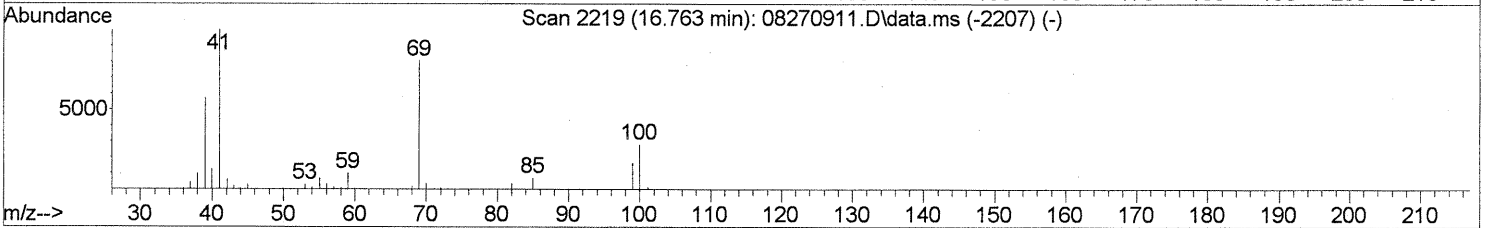
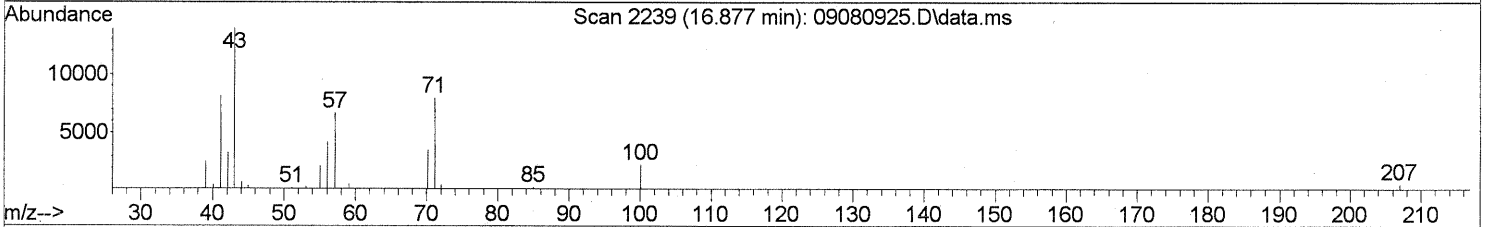
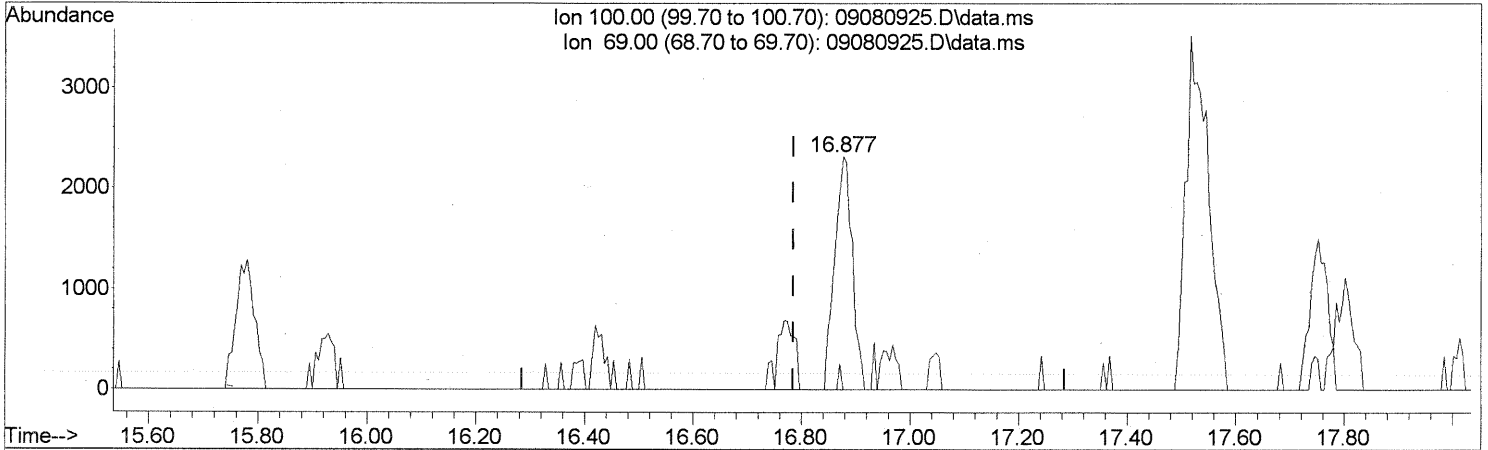
response 9242

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	102.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(50) Methyl Methacrylate (T)
 16.877min (+0.091) 0.81ng
 response 5235

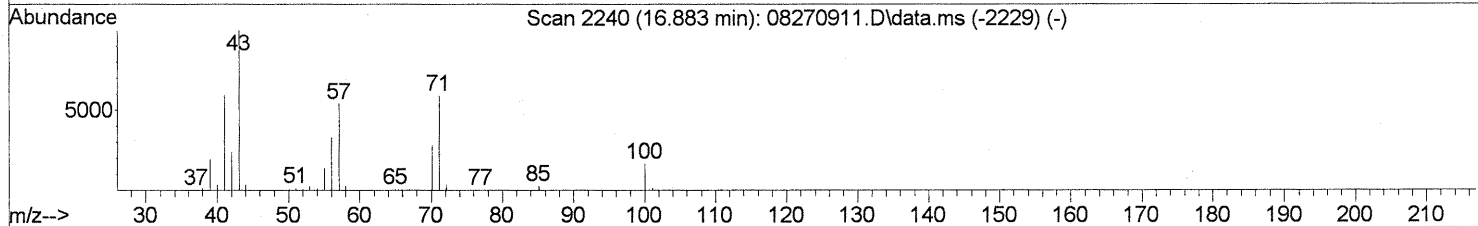
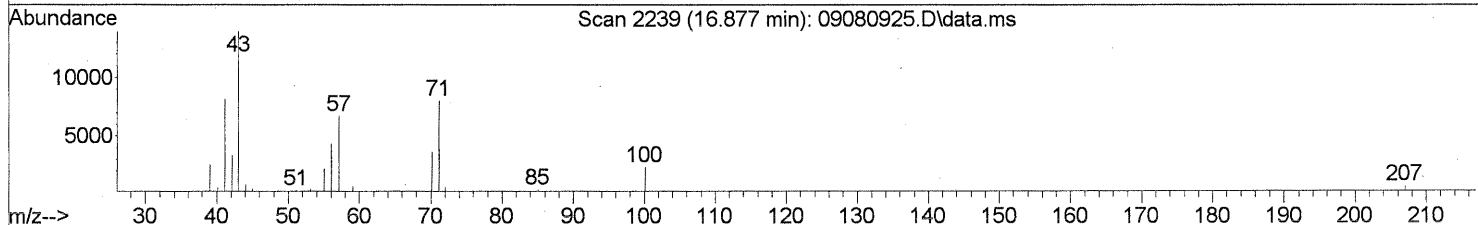
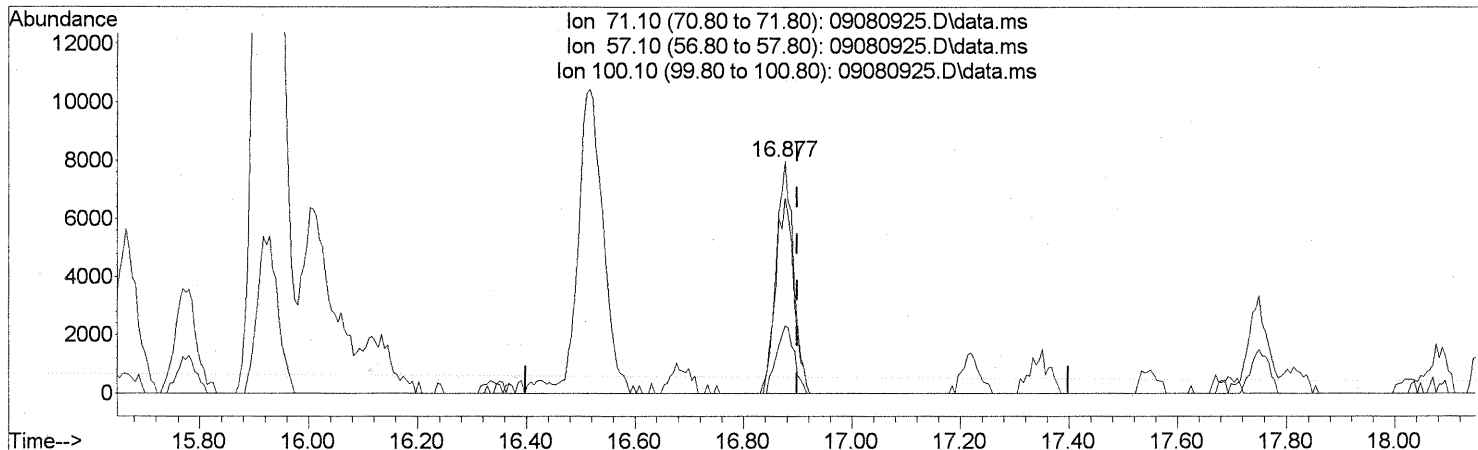
Ion	Exp%	Act%
100.00	100	100
69.00	293.60	1.68#
0.00	0.00	0.00
0.00	0.00	0.00

FP
UK 9/14/09
UK 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

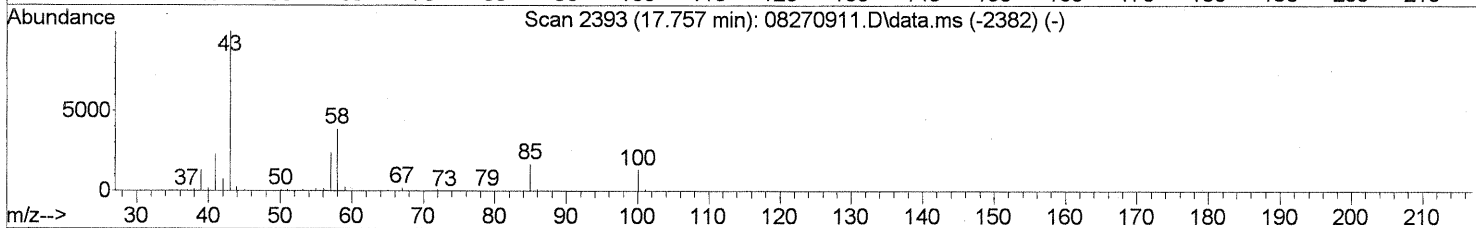
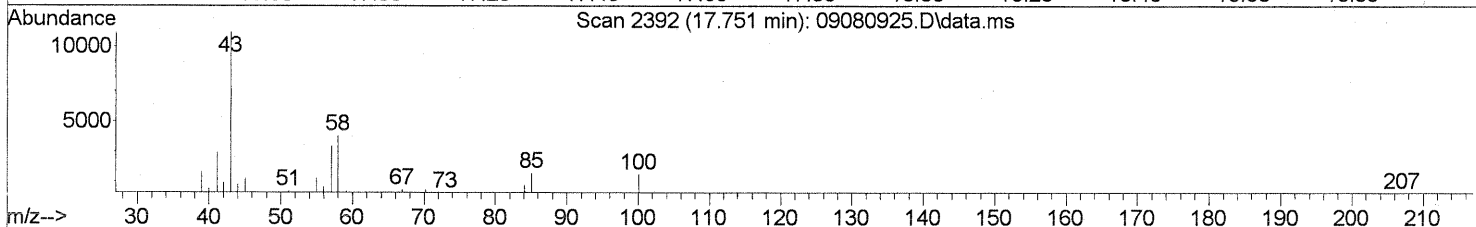
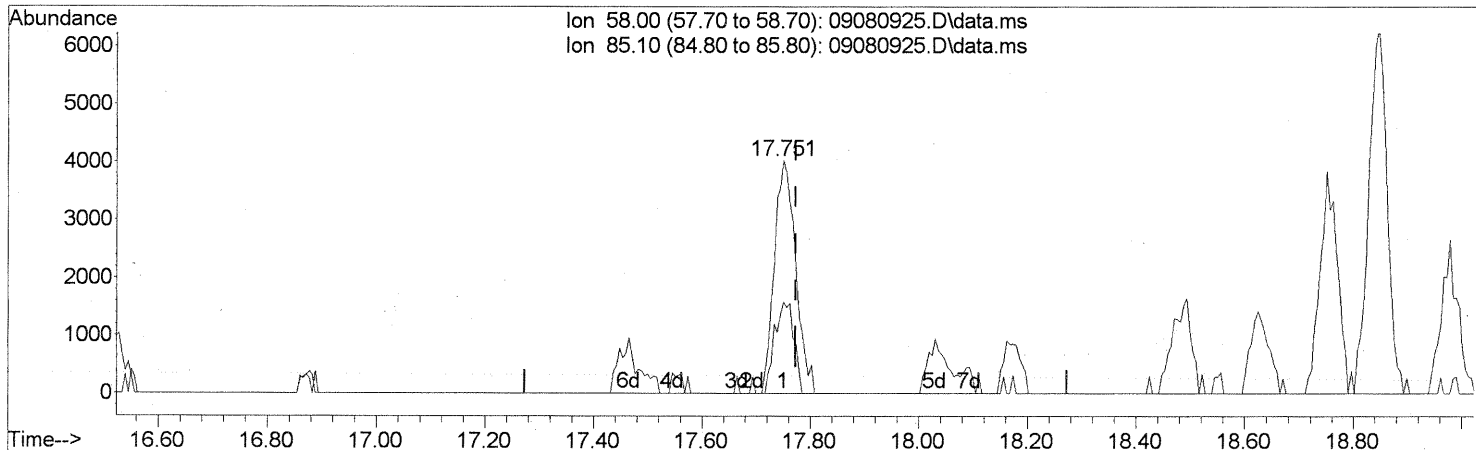
(51) n-Heptane (T)
 16.877min (-0.023) 0.98ng
 response 17656

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	87.71
100.10	22.00	29.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

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

17.751min (-0.023) 0.69ng

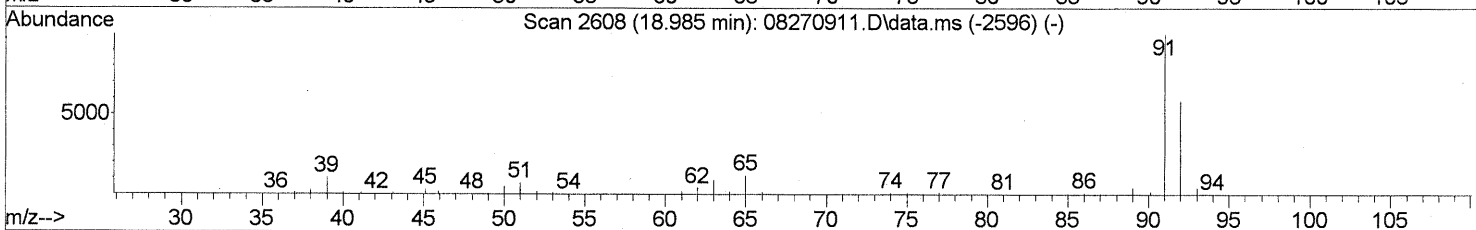
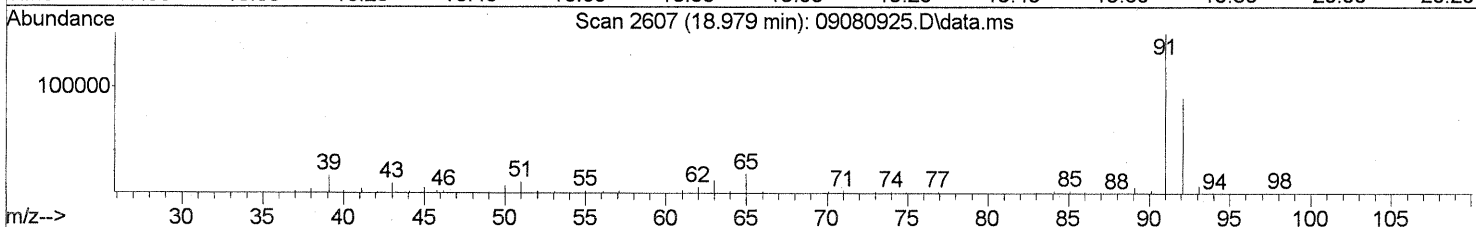
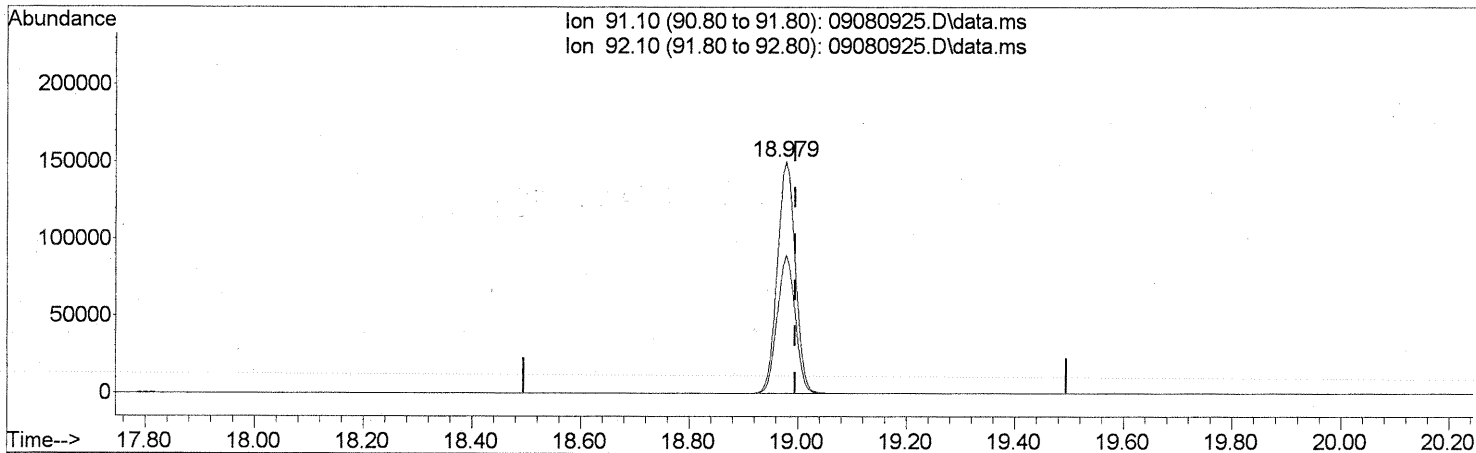
response 10965

Ion	Exp%	Act%
58.00	100	100
85.10	42.40	35.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

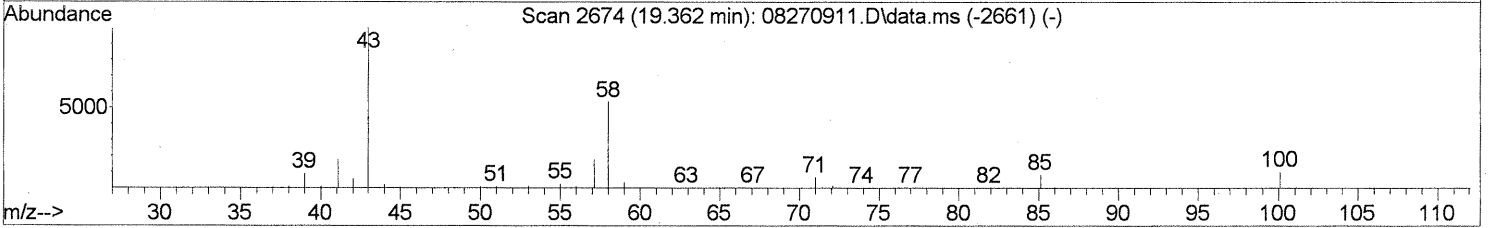
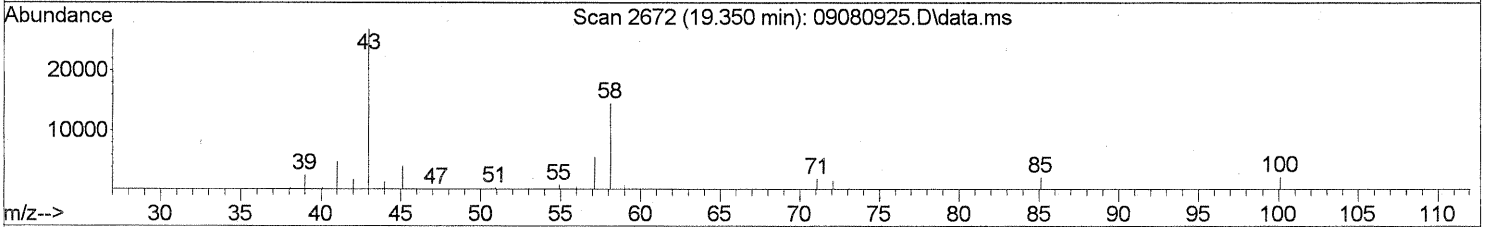
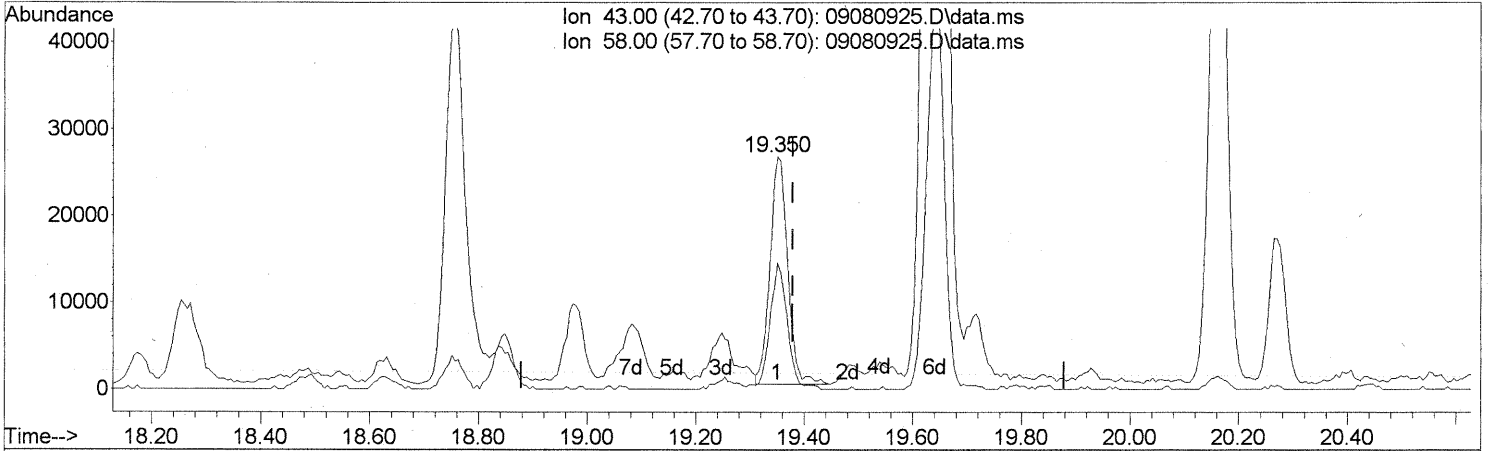
(58) Toluene (T)
 18.979min (-0.017) 4.84ng
 response 343708

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

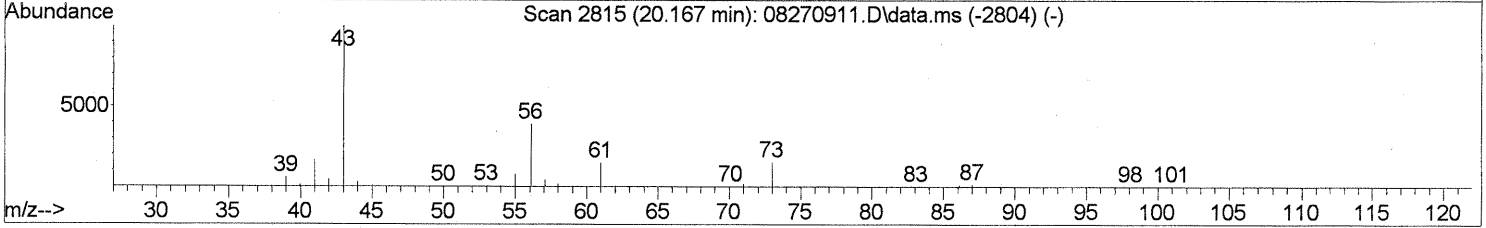
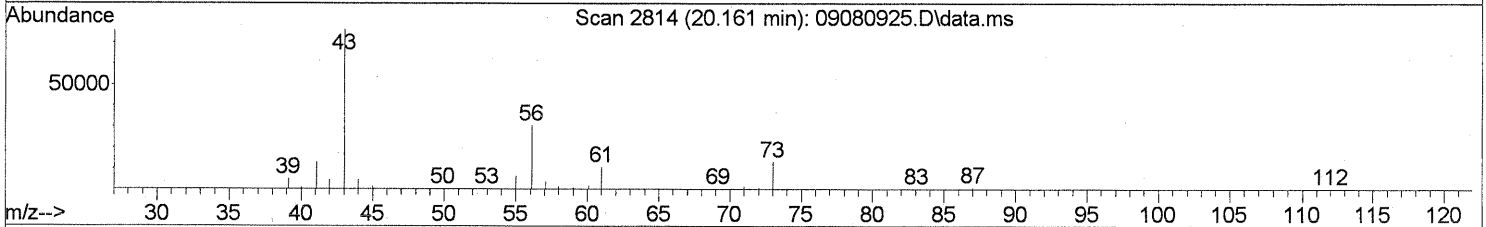
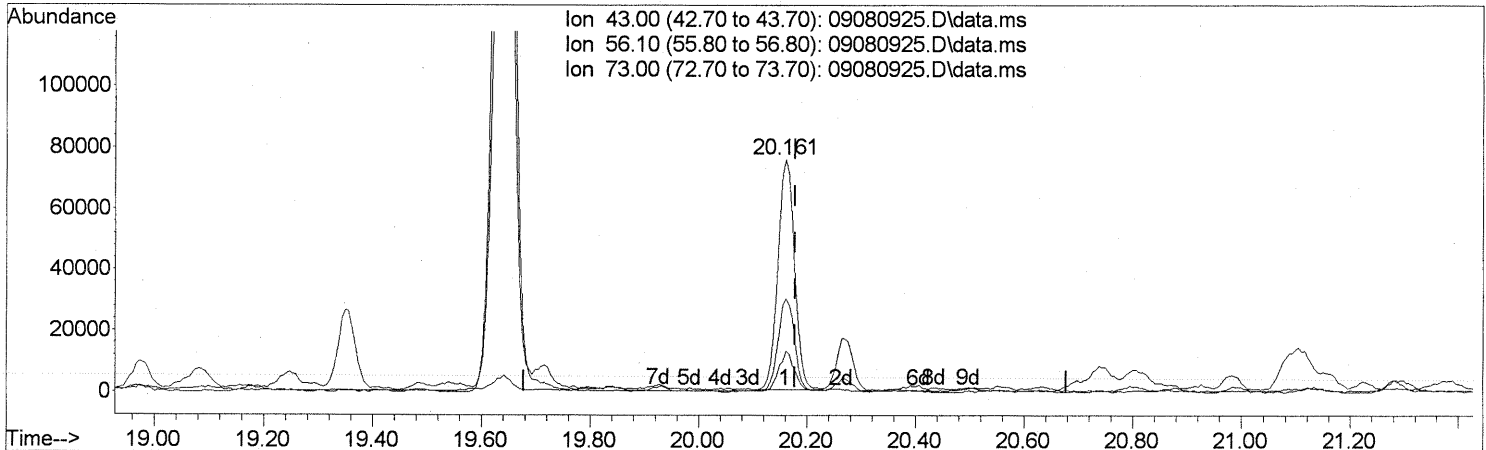
(59) 2-Hexanone (T)
 19.350min (-0.029) 1.38ng
 response 59740

Ion	Exp%	Act%
43.00	100	100
58.00	51.70	54.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

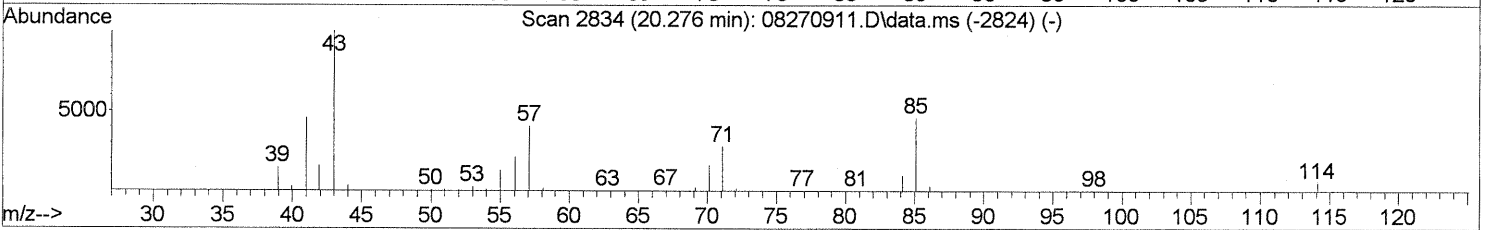
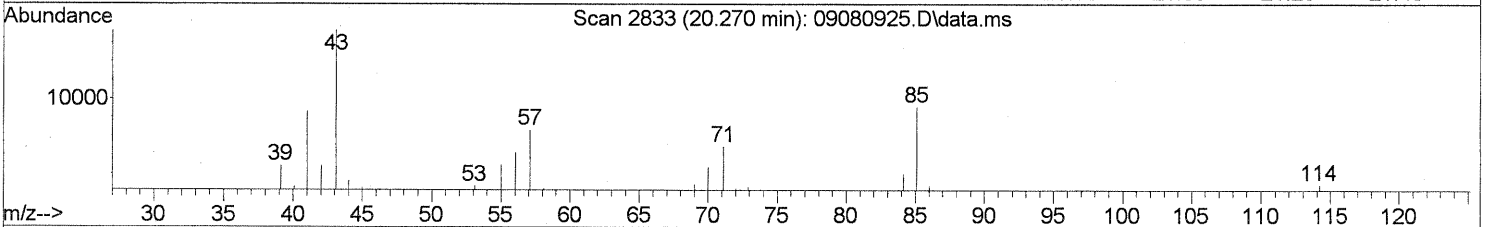
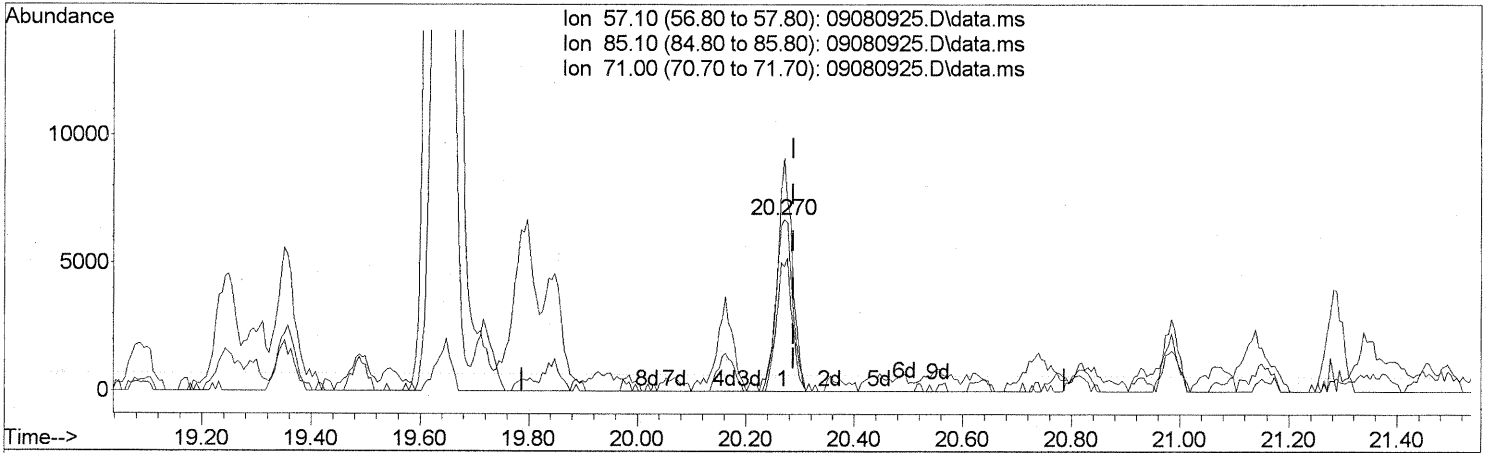
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 3.21ng
 response 159908

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	39.60
73.00	14.30	16.44
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

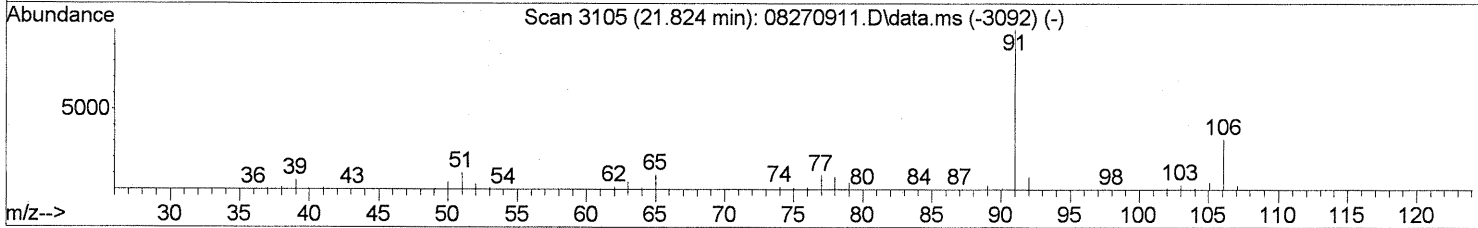
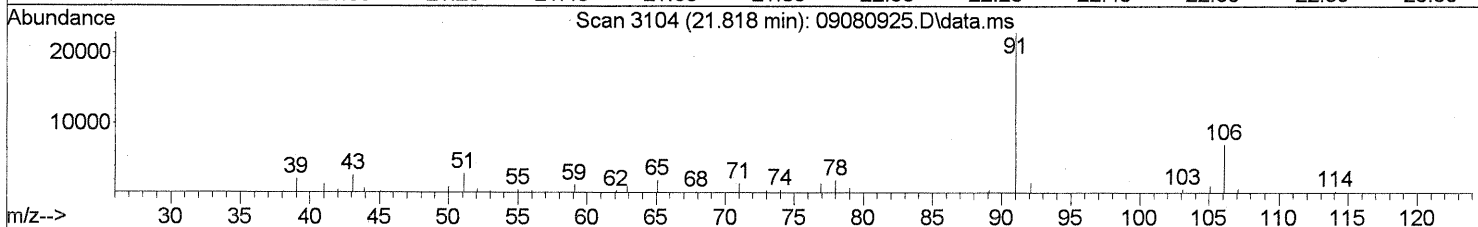
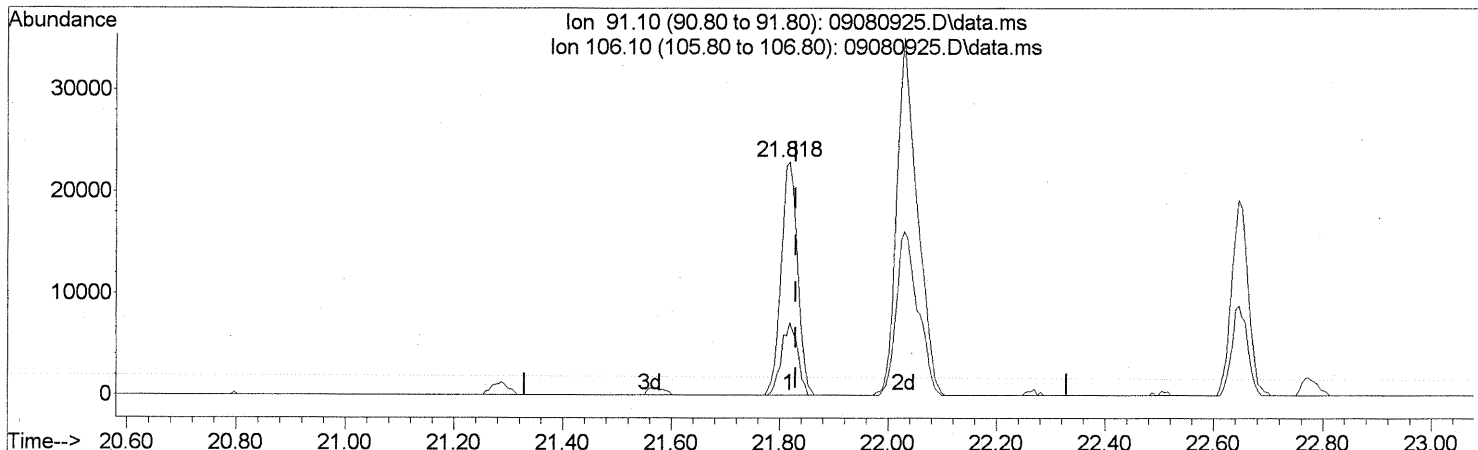
(63) n-Octane (T)
 20.270min (-0.017) 0.91ng
 response 14859

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	115.47
71.00	69.10	69.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

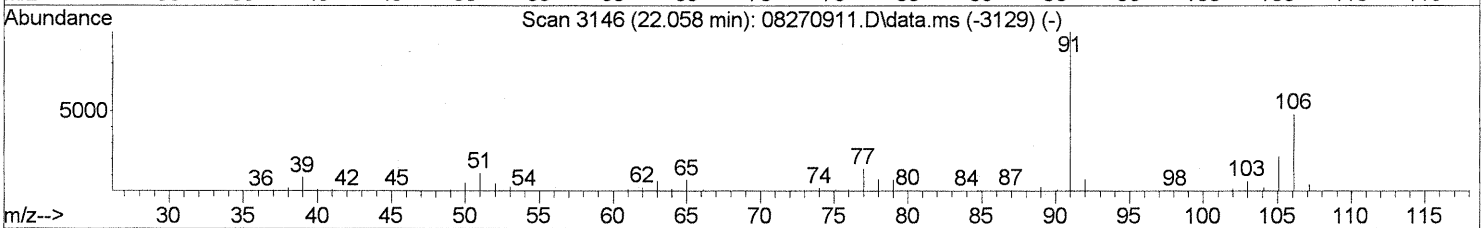
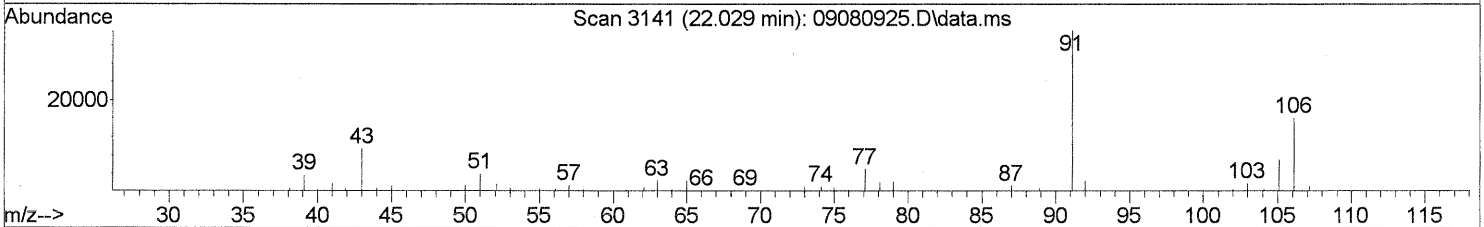
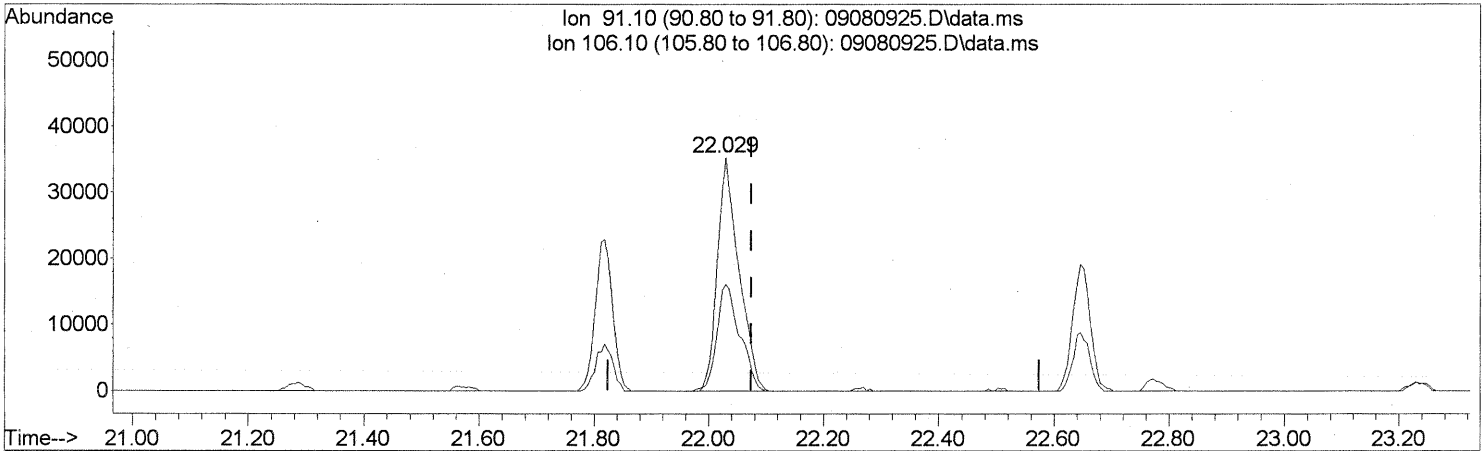
(66) Ethylbenzene (T)
 21.818min (-0.011) 0.59ng
 response 48036

Ion	Exp%	Act%
91.10	100	100
106.10	31.00	30.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

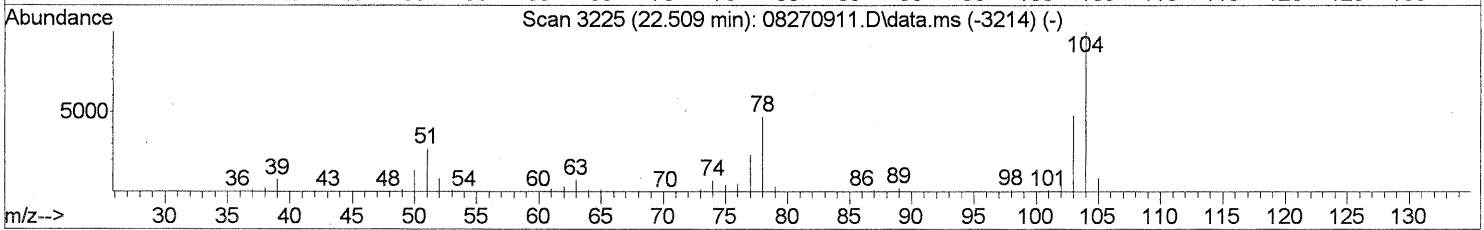
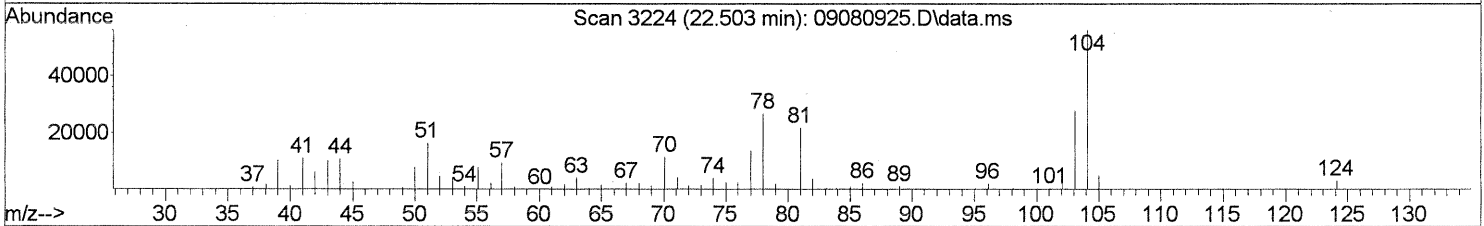
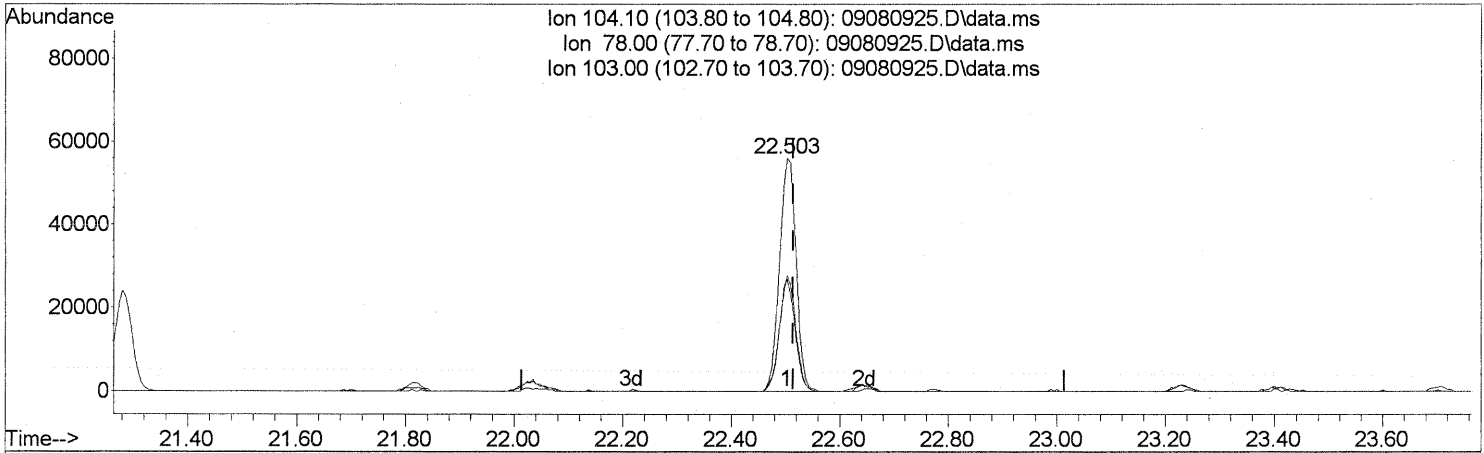
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 1.43ng
 response 92279

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	48.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

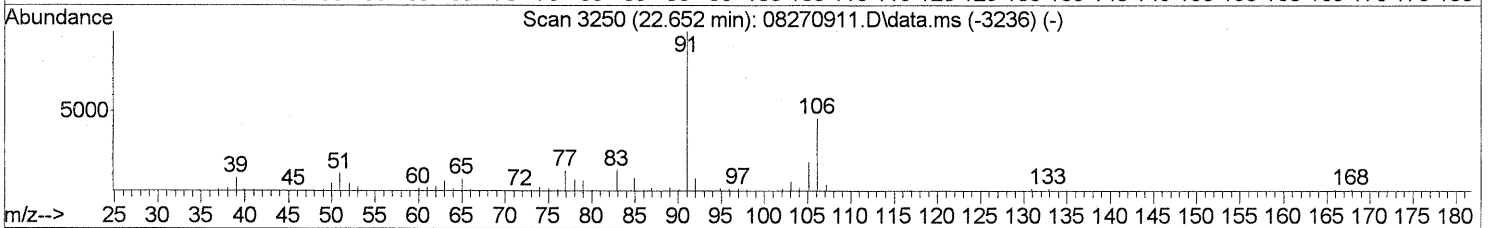
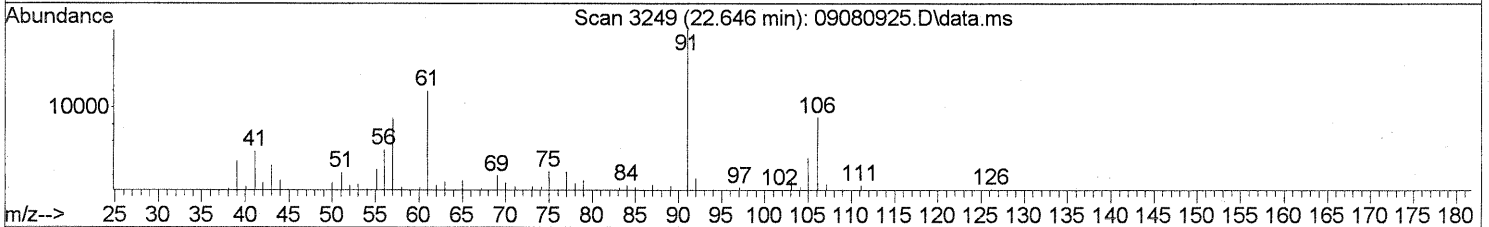
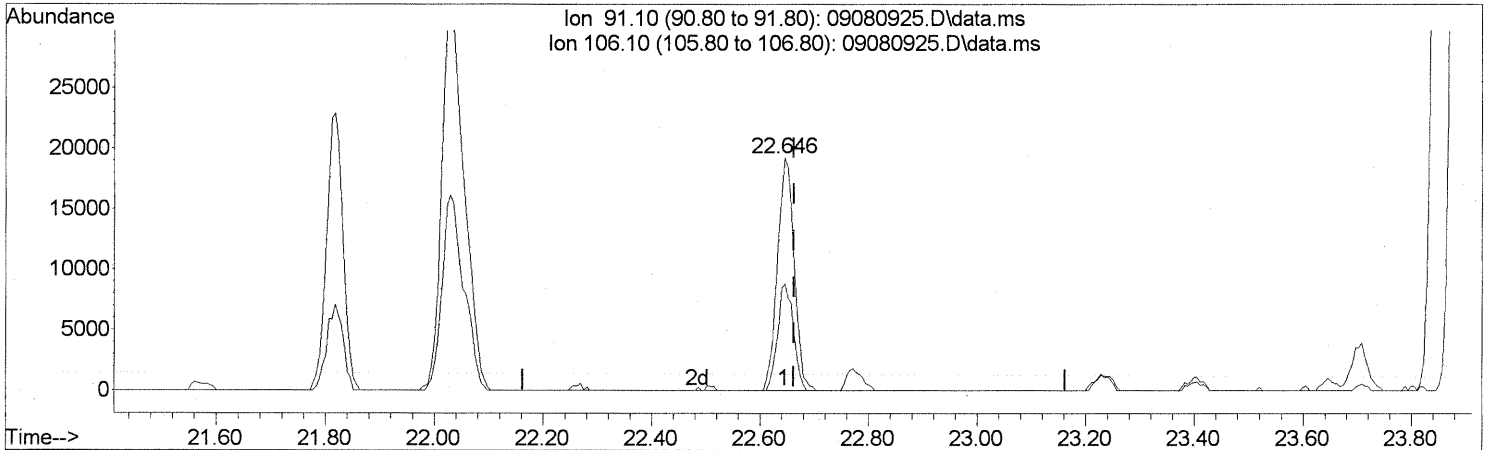
(69) Styrene (T)
 22.503min (-0.011) 2.49ng
 response 118486

Ion	Exp%	Act%
104.10	100	100
78.00	47.20	46.23
103.00	47.00	47.98
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



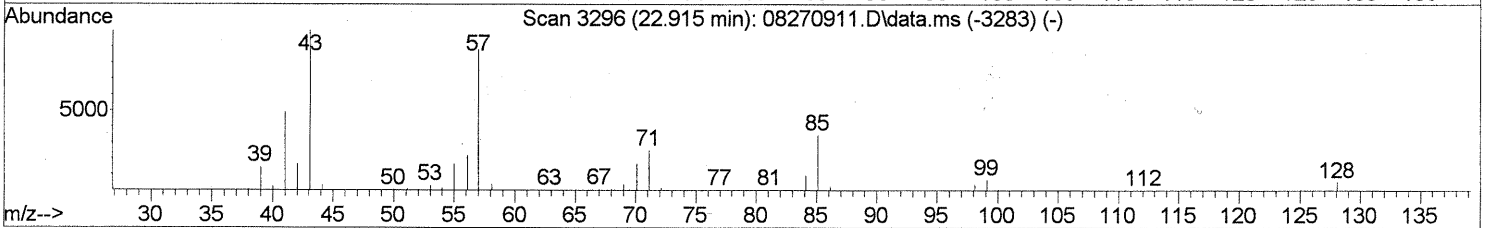
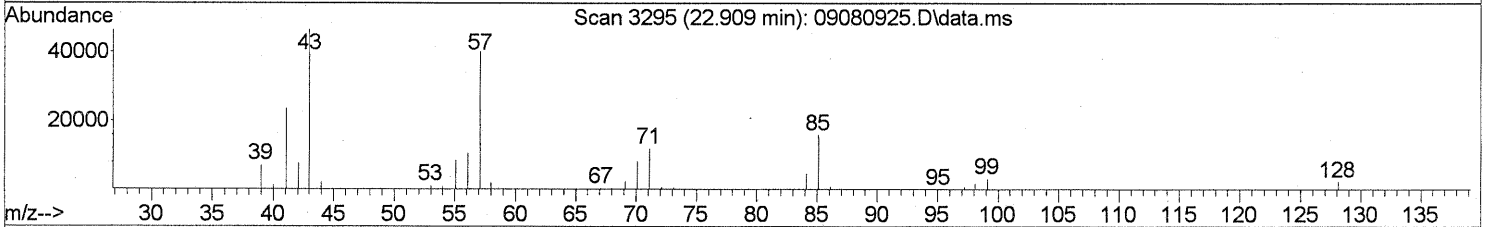
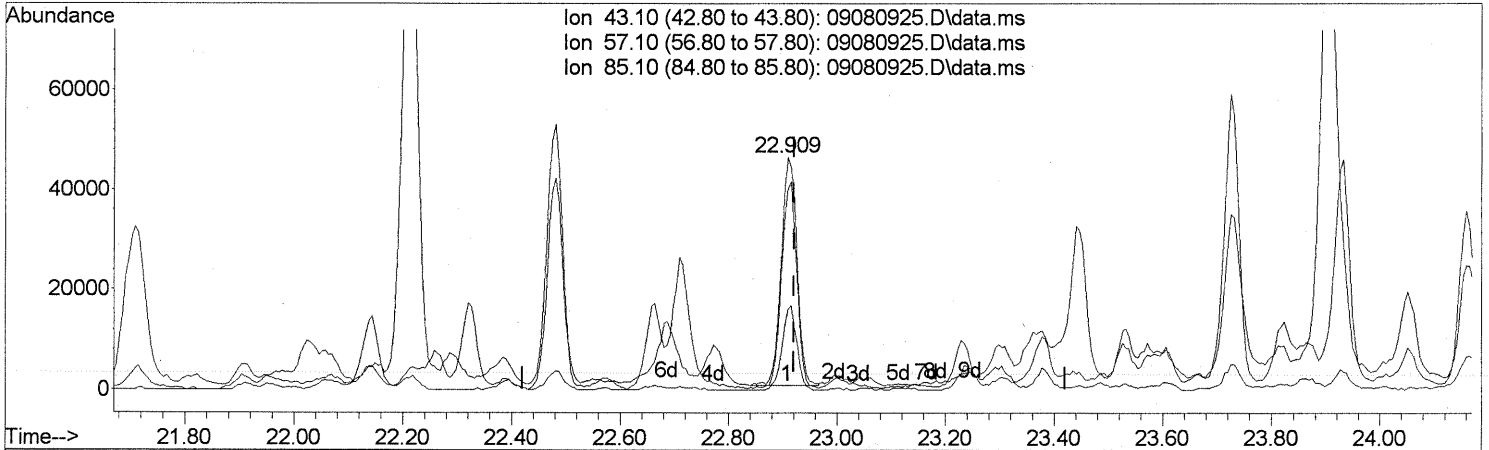
TIC: 09080925.D\data.ms

(70) o-Xylene (T)		
22.646min (-0.017) 0.63ng		
response 40981		
Ion	Exp%	Act%
91.10	100	100
106.10	44.90	43.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

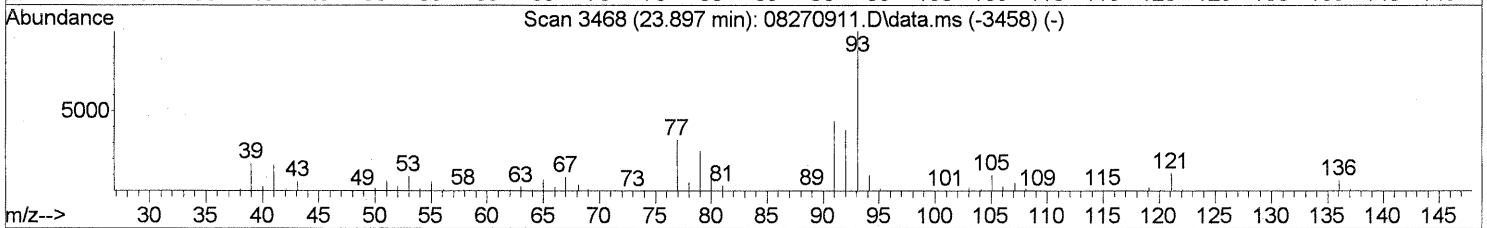
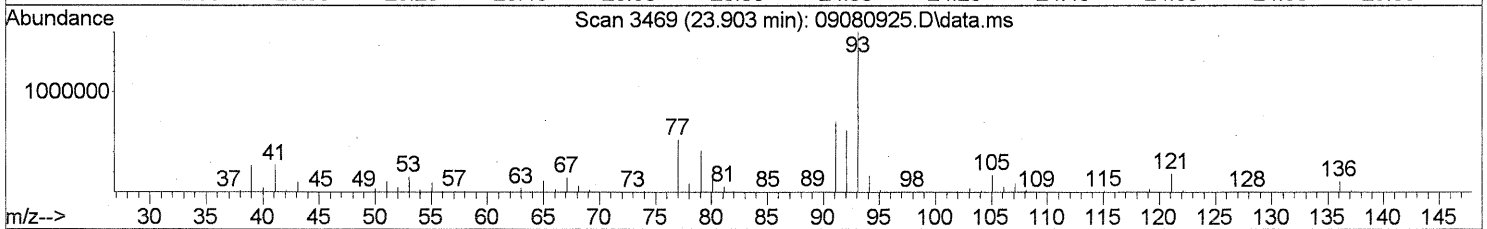
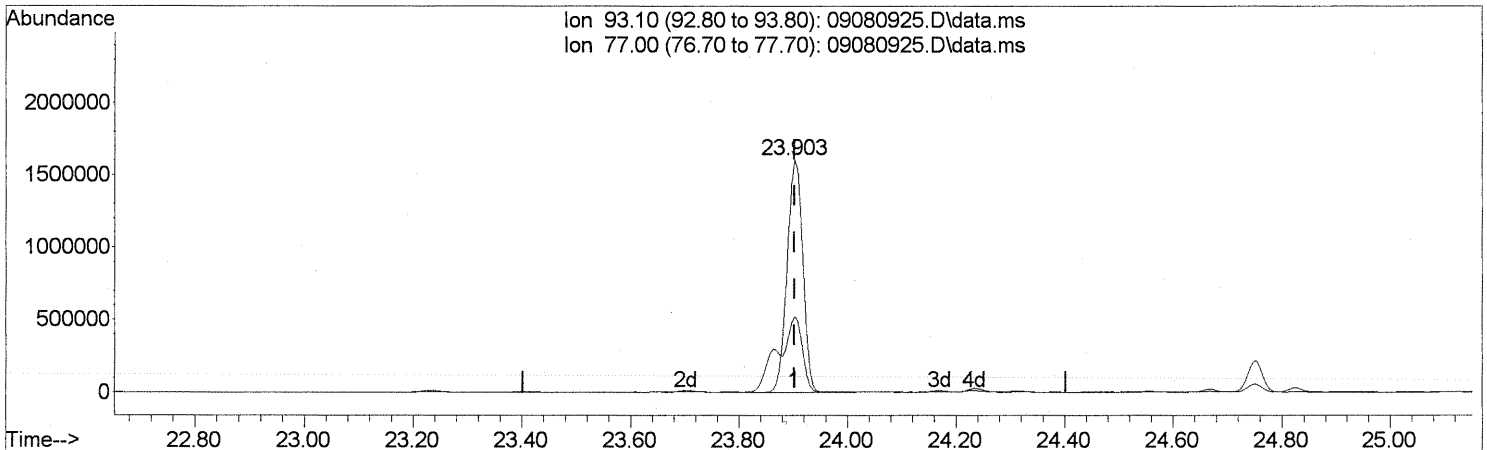
(71) n-Nonane (T)
 22.909min (-0.012) 2.35ng
 response 91973

Ion	Exp%	Act%
43.10	100	100
57.10	85.90	87.53
85.10	32.20	33.48
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

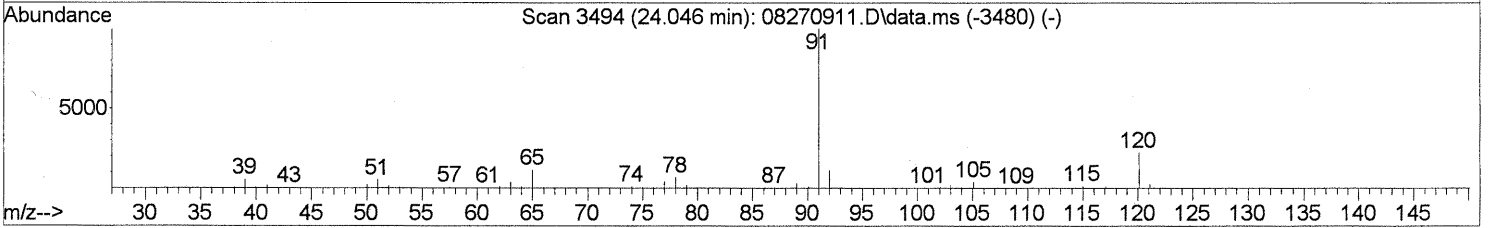
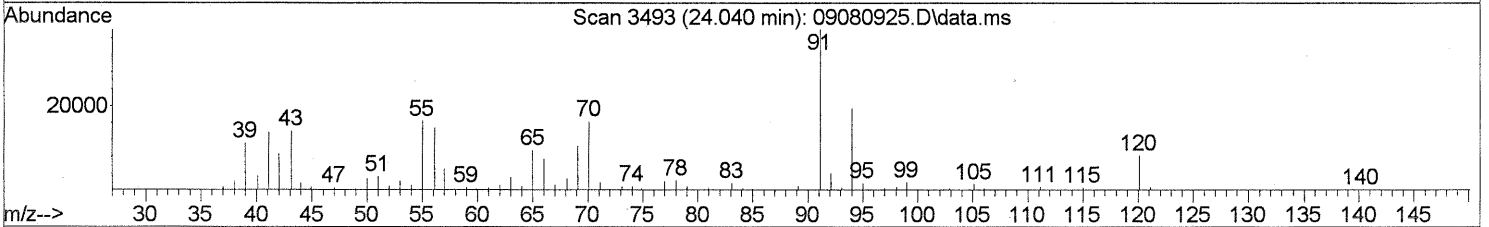
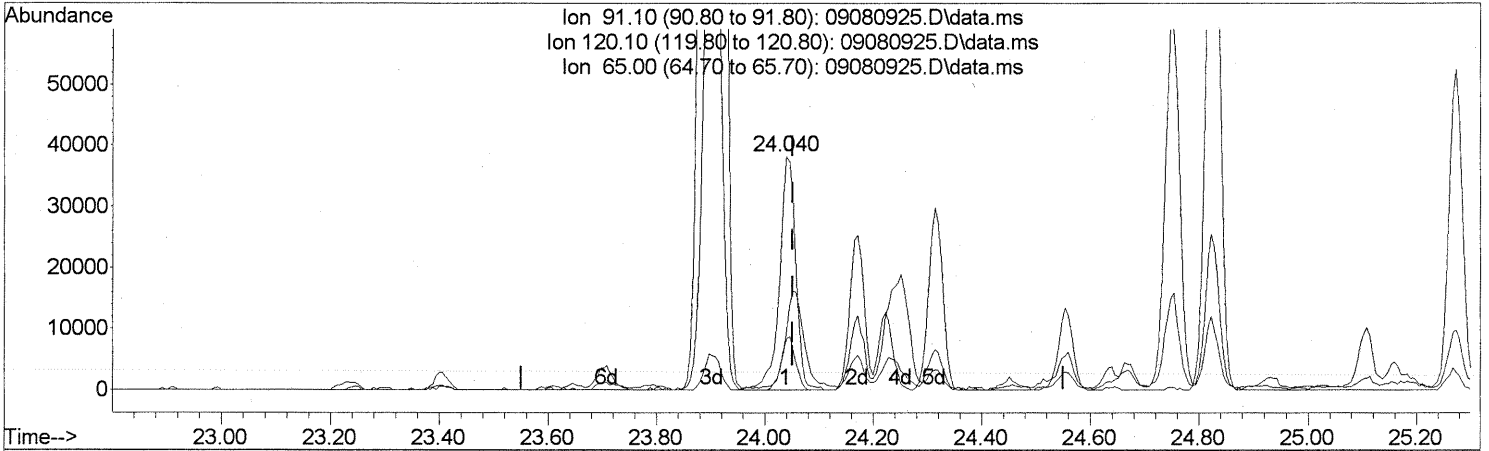
(75) alpha-Pinene (T)
 23.903min (-0.000) 75.37ng
 response 3220753

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	31.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

(76) n-Propylbenzene (T)

24.040min (-0.011) 0.74ng

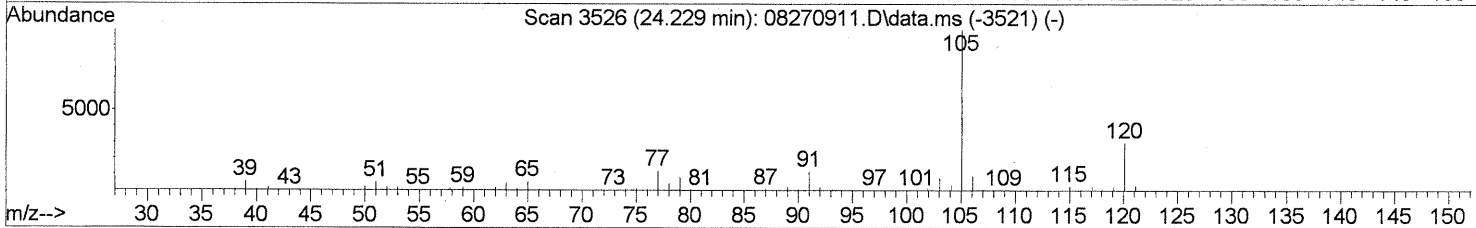
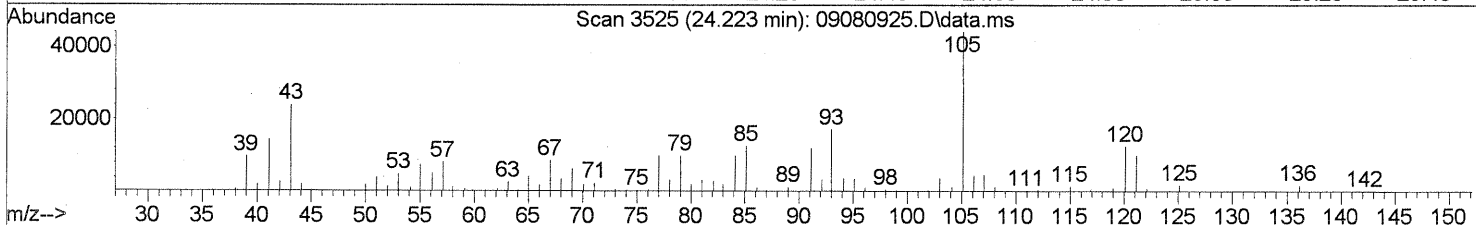
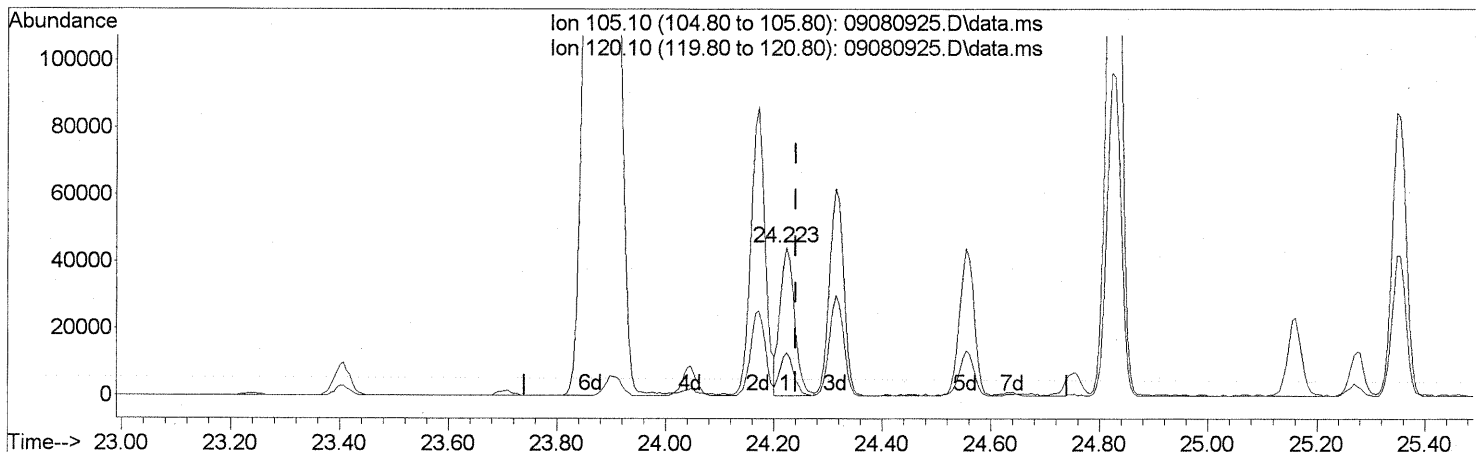
response 77750

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	19.92
65.00	11.80	50.89#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

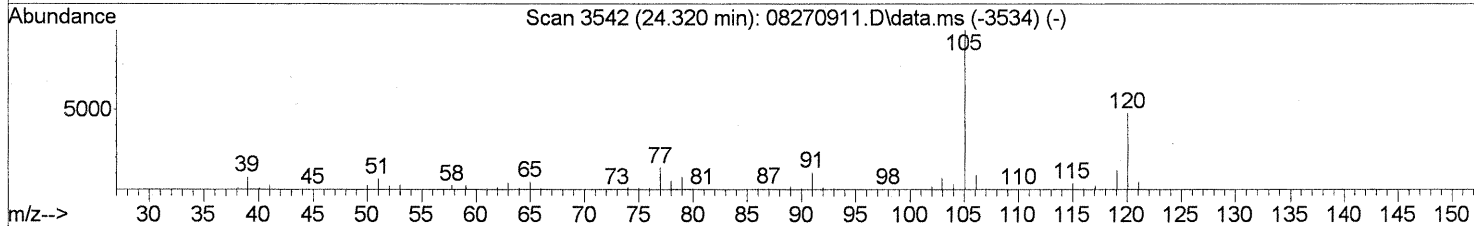
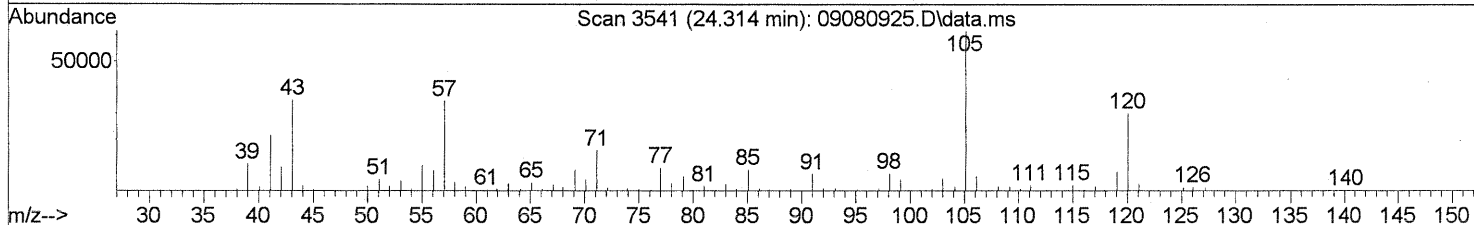
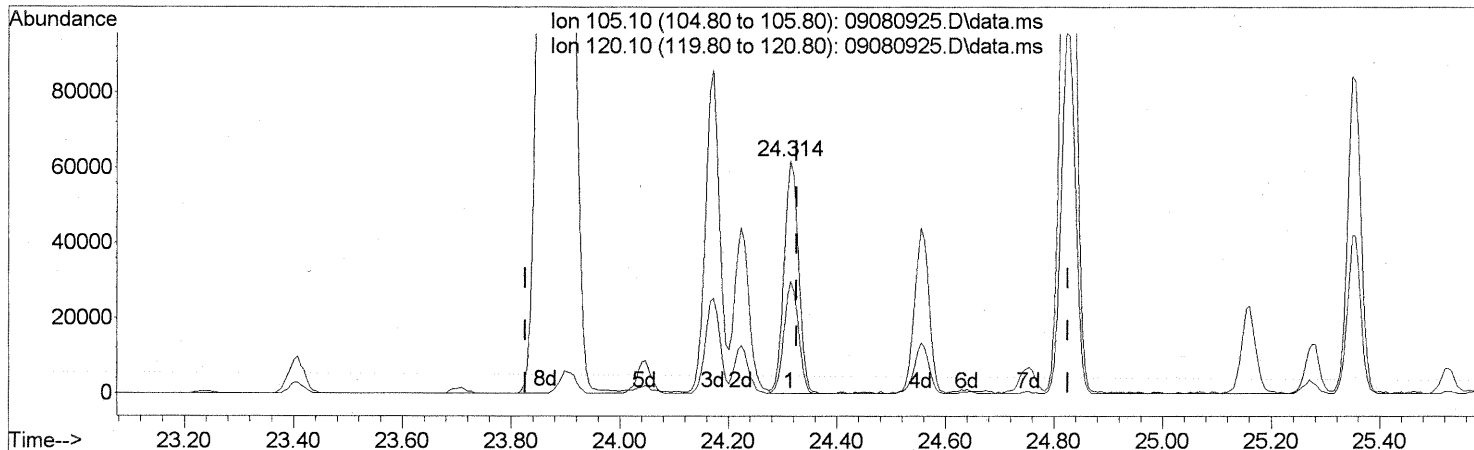
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 1.04ng
 response 81260

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	27.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

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

24.314min (-0.011) 1.75ng

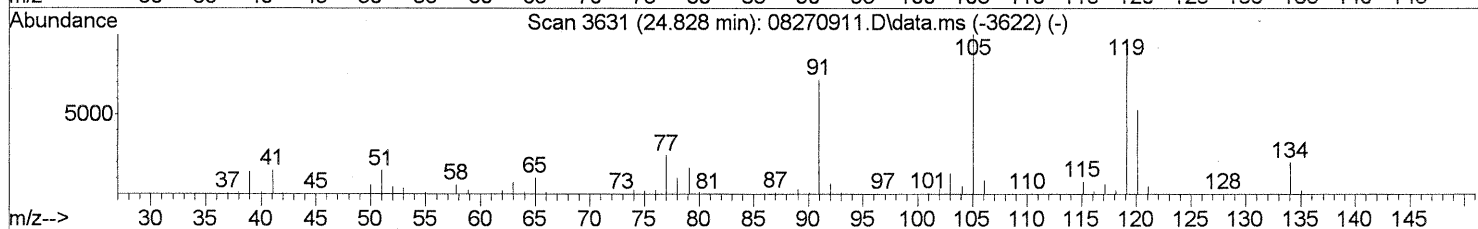
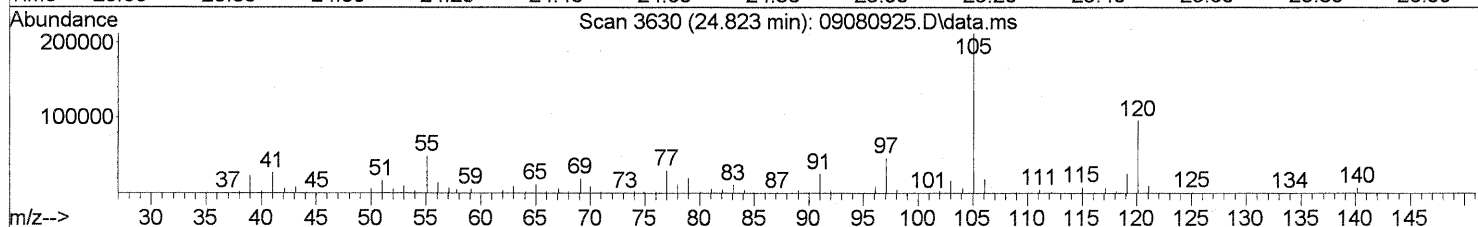
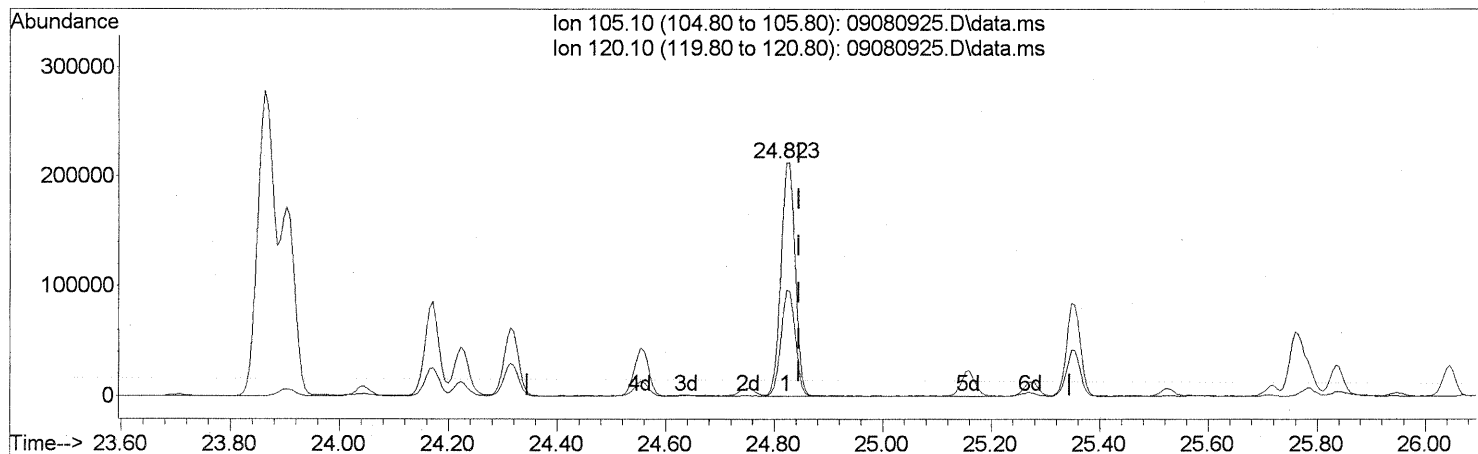
response 113478

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080925.D\data.ms

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

24.823min (-0.023) 5.80ng

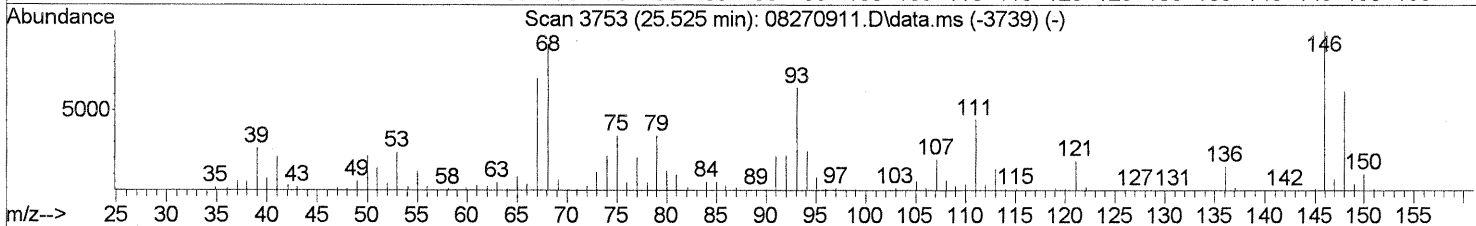
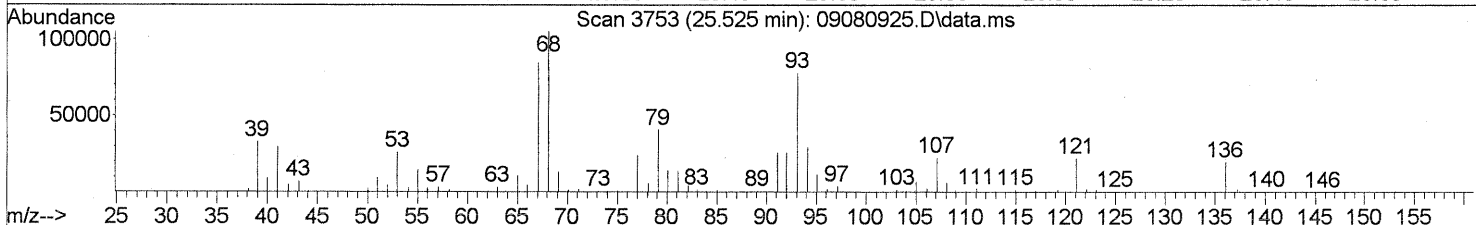
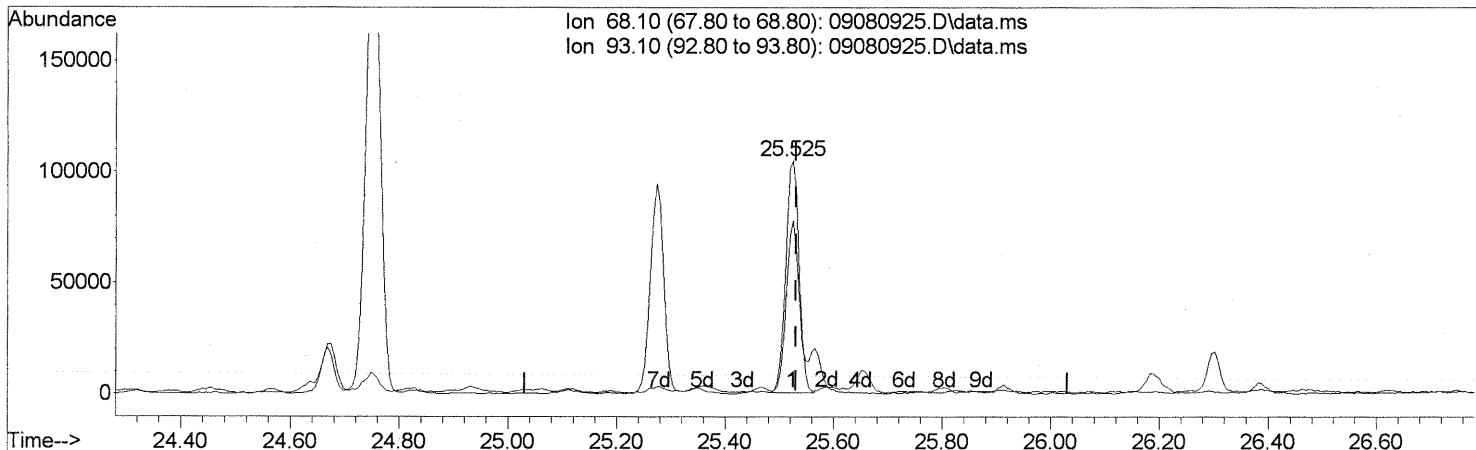
response 383036

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	45.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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TIC: 09080925.D\data.ms

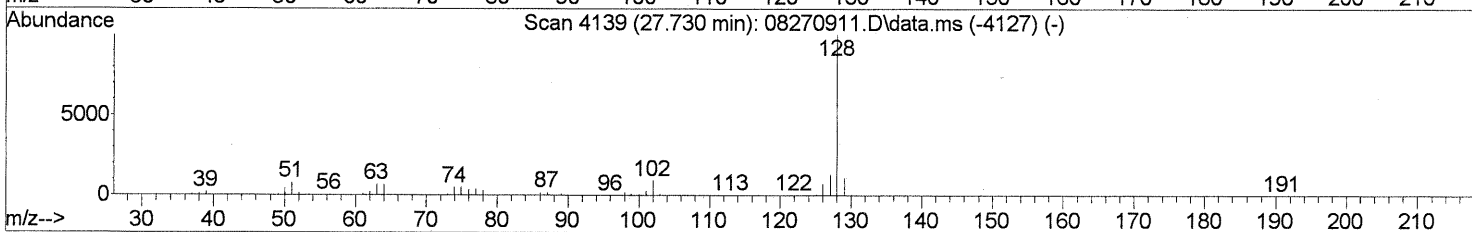
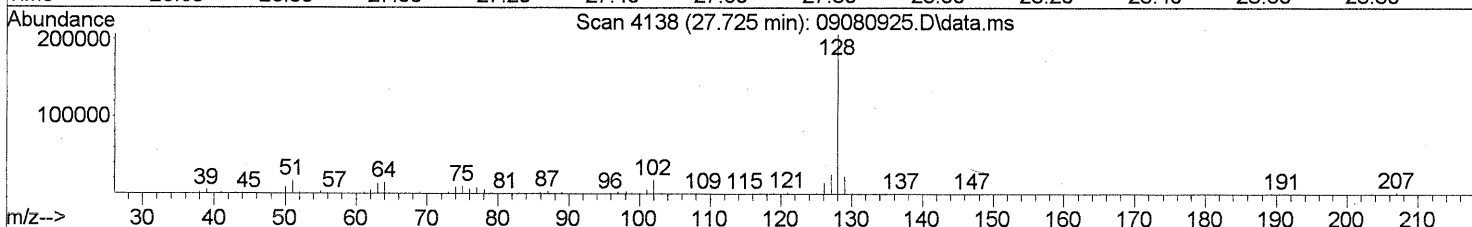
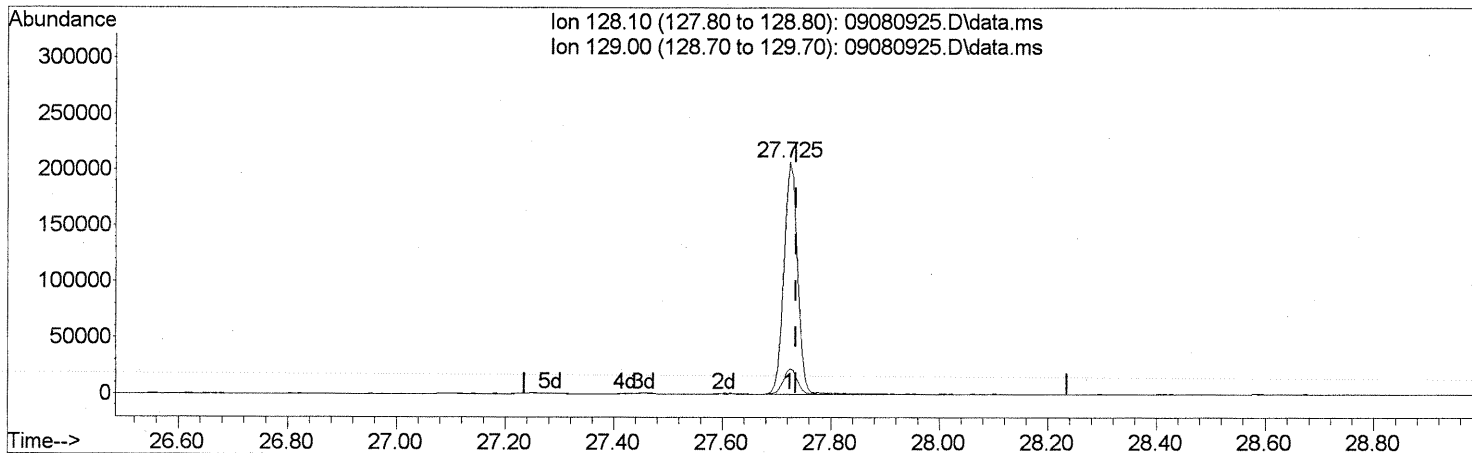
(91) d-Limonene (T)
 25.525min (-0.006) 6.74ng
 response 177695

Ion	Exp%	Act%
68.10	100	100
93.10	69.80	76.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080925.D
 Acq On : 9 Sep 2009 3:44
 Operator : LM/CC
 Sample : P0903081-003 (1000ml)
 Misc : EH&E 104766
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 09 10:13:50 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 09080925.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.012) 3.98ng
 response 363127

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.03
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104767
Client Project ID: 16512

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00765

CAS Project ID: P0903081
CAS Sample ID: P0903081-004

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
115-07-1	Propene	1.2	0.62	0.69	0.36	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.6	0.62	0.53	0.12	
74-87-3	Chloromethane	0.54	0.12	0.26	0.060	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.62	ND	0.088	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.048	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.056	
74-83-9	Bromomethane	ND	0.12	ND	0.032	
75-00-3	Chloroethane	ND	0.12	ND	0.047	
64-17-5	Ethanol	20	6.2	11	3.3	
75-05-8	Acetonitrile	56	0.62	33	0.37	
107-02-8	Acrolein	2.1	0.62	0.93	0.27	
67-64-1	Acetone	48	6.2	20	2.6	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	4.5	0.62	1.8	0.25	
107-13-1	Acrylonitrile	ND	0.62	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.62	ND	0.18	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.67	0.12	0.088	0.016	
75-15-0	Carbon Disulfide	0.98	0.62	0.31	0.20	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.2	ND	1.7	
78-93-3	2-Butanone (MEK)	3.2	0.62	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.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104767
Client Project ID: 16512
Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: AC00765

CAS Project ID: P0903081
CAS Sample ID: P0903081-004

Date Collected: 9/1/09
Date Received: 9/2/09
Date Analyzed: 9/9/09
Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.23

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
156-59-2	cis-1,2-Dichloroethene	ND	0.12	ND	0.031	
141-78-6	Ethyl Acetate	1.1	0.62	0.31	0.17	
110-54-3	n-Hexane	0.89	0.62	0.25	0.17	
67-66-3	Chloroform	0.16	0.12	0.032	0.025	
109-99-9	Tetrahydrofuran (THF)	1.4	0.62	0.49	0.21	
107-06-2	1,2-Dichloroethane	ND	0.12	ND	0.030	
71-55-6	1,1,1-Trichloroethane	ND	0.12	ND	0.023	
71-43-2	Benzene	0.73	0.12	0.23	0.039	
56-23-5	Carbon Tetrachloride	0.57	0.12	0.090	0.020	
110-82-7	Cyclohexane	ND	0.62	ND	0.18	
78-87-5	1,2-Dichloropropane	ND	0.12	ND	0.027	
75-27-4	Bromodichloromethane	ND	0.12	ND	0.018	
79-01-6	Trichloroethene	ND	0.12	ND	0.023	
123-91-1	1,4-Dioxane	ND	0.62	ND	0.17	
80-62-6	Methyl Methacrylate	ND	0.62	ND	0.15	
142-82-5	n-Heptane	0.77	0.62	0.19	0.15	
10061-01-5	cis-1,3-Dichloropropene	ND	0.62	ND	0.14	
108-10-1	4-Methyl-2-pentanone	ND	0.62	ND	0.15	
10061-02-6	trans-1,3-Dichloropropene	ND	0.62	ND	0.14	
79-00-5	1,1,2-Trichloroethane	ND	0.12	ND	0.023	
108-88-3	Toluene	3.2	0.62	0.86	0.16	
591-78-6	2-Hexanone	0.90	0.62	0.22	0.15	
124-48-1	Dibromochloromethane	ND	0.12	ND	0.014	
106-93-4	1,2-Dibromoethane	ND	0.12	ND	0.016	
123-86-4	n-Butyl Acetate	1.6	0.62	0.34	0.13	

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

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

Verified By: RC Date: 9/16/09 **140**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104767
Client Project ID: 16512

CAS Project ID: P0903081
 CAS Sample ID: P0903081-004

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC00765

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): 0.2 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.23

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	0.70	0.62	0.15	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.027	
100-41-4	Ethylbenzene	ND	0.62	ND	0.14	
179601-23-1	m,p-Xylenes	1.7	0.62	0.38	0.14	
75-25-2	Bromoform	ND	0.62	ND	0.060	
100-42-5	Styrene	1.7	0.62	0.40	0.14	
95-47-6	o-Xylene	0.69	0.62	0.16	0.14	
111-84-2	n-Nonane	2.0	0.62	0.38	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.62	ND	0.13	
80-56-8	alpha-Pinene	31	0.62	5.5	0.11	
103-65-1	n-Propylbenzene	0.67	0.62	0.14	0.13	
622-96-8	4-Ethyltoluene	0.92	0.62	0.19	0.13	
108-67-8	1,3,5-Trimethylbenzene	1.6	0.62	0.33	0.13	
95-63-6	1,2,4-Trimethylbenzene	5.4	0.62	1.1	0.13	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.024	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	3.5	0.62	0.63	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.62	ND	0.064	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	ND	0.083	
91-20-3	Naphthalene	3.0	0.62	0.58	0.12	
87-68-3	Hexachlorobutadiene	ND	0.62	ND	0.058	

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

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

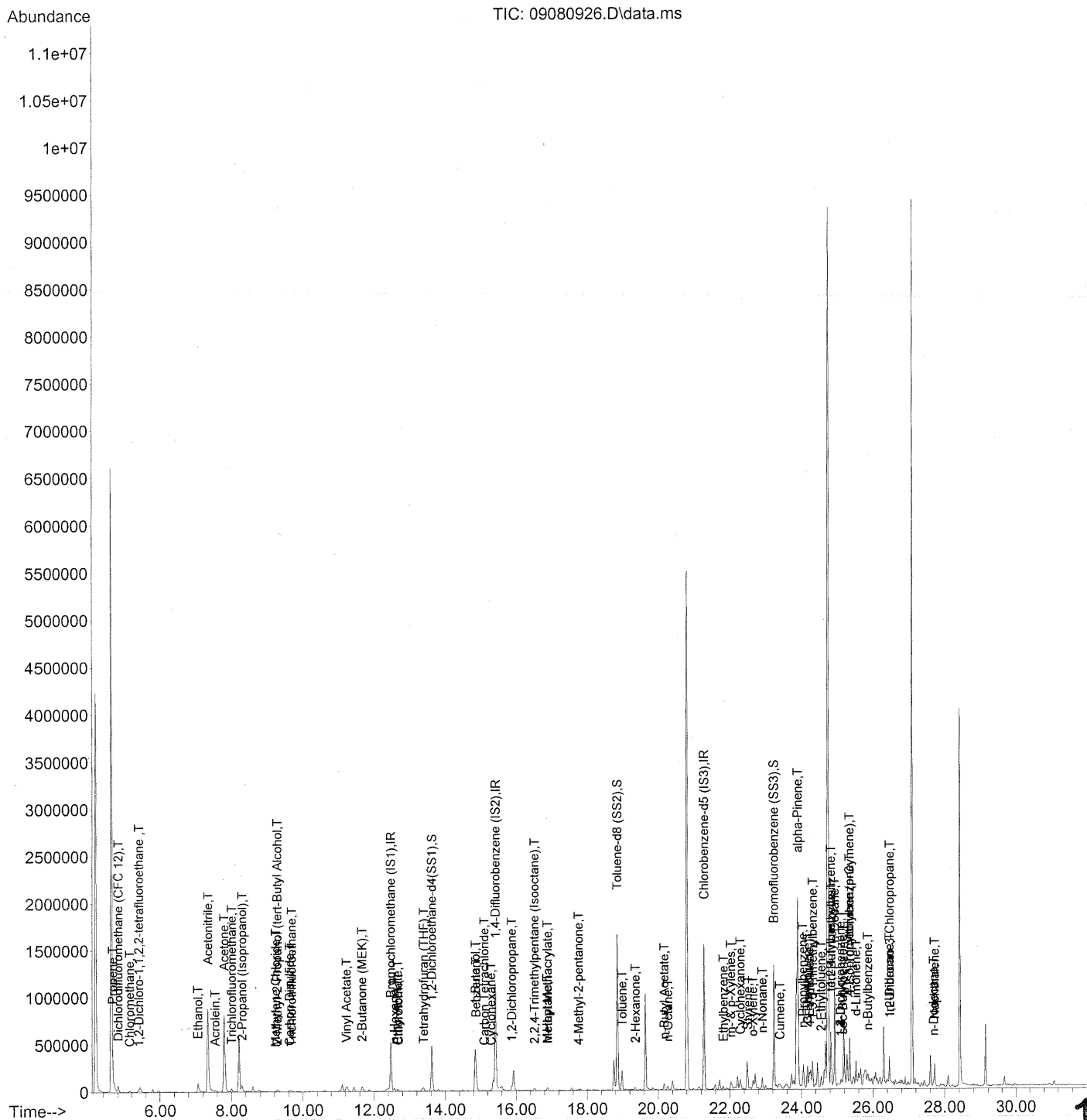
Verified By: Ru

Date: 9/16/09

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Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26 am
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 15 11:12:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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Data Path : J:\MS13\DATA\2009_09\08\
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 Acq On : 9 Sep 2009 4:26 am
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 Sample : P0903081-004 (1000ml)
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 Response via : Initial Calibration

LM 9/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	259820	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1303569	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	644942	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	492824	23.936	ng	-0.03
Spiked Amount	25.000			Recovery =	95.76%	
57) Toluene-d8 (SS2)	18.84	98	1429590	24.803	ng	-0.02
Spiked Amount	25.000			Recovery =	99.20%	
73) Bromofluorobenzene (SS3)	23.23	174	434594	26.198	ng	0.00
Spiked Amount	25.000			Recovery =	104.80%	

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	18118m	0.964	ng	
3) Dichlorodifluoromethan...	4.82	85	70110	2.131	ng	99
4) Chloromethane	5.15	50	9649	0.436	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	1271	0.094	ng	# 57
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.89	54	465	N.D.		
8) Bromomethane	6.35	94	313	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	191931	16.469	ng	97
11) Acetonitrile	7.34	41	1465178	45.263	ng	99
12) Acrolein	7.55	56	15498	1.742	ng	98
13) Acetone	7.79	58	471527	39.124	ng	95
14) Trichlorofluoromethane	8.01	101	33508	1.155	ng	95
15) 2-Propanol (Isopropanol)	8.30	45	145422	3.629	ng	99
16) Acrylonitrile	8.57	53	698	N.D.		
17) 1,1-Dichloroethene	9.02	96	289	N.D.		
18) 2-Methyl-2-Propanol (t...	9.28	59	10330	0.257	ng	# 1
19) Methylene Chloride	9.23	84	2584	0.169	ng	96
20) 3-Chloro-1-propene (Al...	9.42	41	105	N.D.		
21) Trichlorotrifluoroethane	9.68	151	6278	0.547	ng	89
22) Carbon Disulfide	9.63	76	43203	0.794	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.11	73	408	N.D.		
26) Vinyl Acetate	11.22	86	10596	3.508	ng	# 57
27) 2-Butanone (MEK)	11.66	72	25216	2.590	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.66	61	4812	0.920	ng	95
31) n-Hexane	12.57	57	18771	0.720	ng	96

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26 am
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	3273	0.127 ng		87
34) Tetrahydrofuran (THF)	13.39	72	12346	1.169 ng	#	72
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.79	62	386	N.D.		
38) 1,1,1-Trichloroethane	14.16	97	1178	N.D.		
39) Isopropyl Acetate	14.83	61	87	N.D.		
40) 1-Butanol	14.85	56	424389	26.156 ng	#	41
41) Benzene	14.87	78	36440	0.595 ng		99
42) Carbon Tetrachloride	15.10	117	9497	0.462 ng		99
43) Cyclohexane	15.29	84	5136	0.227 ng		96
44) tert-Amyl Methyl Ether	15.95	73	88	N.D.		
45) 1,2-Dichloropropane	15.87	63	1166	0.077 ng	#	1
46) Bromodichloromethane	16.38	83	679	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	16.50	88	408	N.D.		
49) 2,2,4-Trimethylpentane...	16.51	57	26089	0.374 ng		85
50) Methyl Methacrylate	16.88	100	3087	0.544 ng	FP #	1
51) n-Heptane	16.88	71	9923	0.625 ng		94
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.75	58	3369	0.241 ng		93
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.54	97	451	N.D.		
58) Toluene	18.98	91	163305	2.631 ng		99
59) 2-Hexanone	19.36	43	27848	0.734 ng		98
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	56676	1.302 ng		90
63) n-Octane	20.26	57	8180	0.573 ng		98
64) Tetrachloroethene	20.46	166	410	N.D.		
65) Chlorobenzene	21.34	112	228	N.D.		
66) Ethylbenzene	21.82	91	32593	0.459 ng		100
67) m- & p-Xylenes	22.03	91	76177	1.348 ng		98
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	56904	1.367 ng		98
70) o-Xylene	22.65	91	31862	0.561 ng		99
71) n-Nonane	22.91	43	54845	1.607 ng		98
72) 1,1,2,2-Tetrachloroethane	22.65	83	670	N.D.		
74) Cumene	23.40	105	13026	0.181 ng		95
75) alpha-Pinene	23.90	93	937562	25.117 ng	#	42
76) n-Propylbenzene	24.04	91	49835	0.545 ng	#	57
77) 3-Ethyltoluene	24.17	105	105487	1.532 ng		99
78) 4-Ethyltoluene	24.22	105	50844	0.748 ng		98
79) 1,3,5-Trimethylbenzene	24.31	105	73547	1.300 ng		99

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26 am
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 15 11:12:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

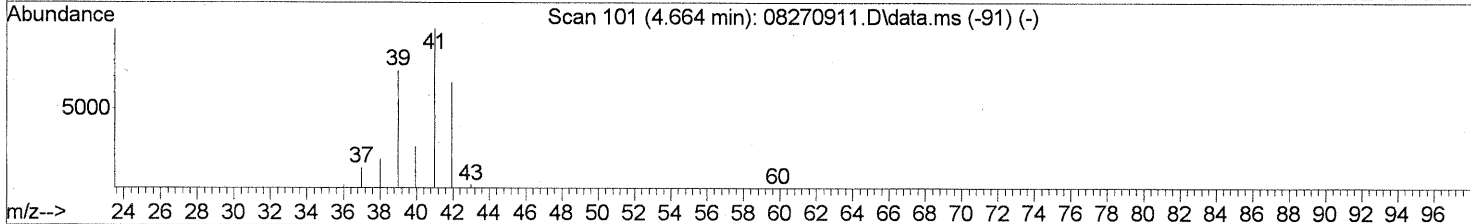
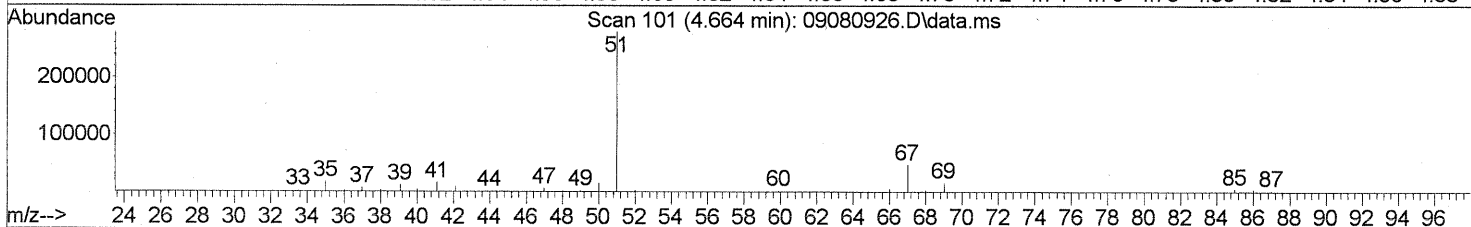
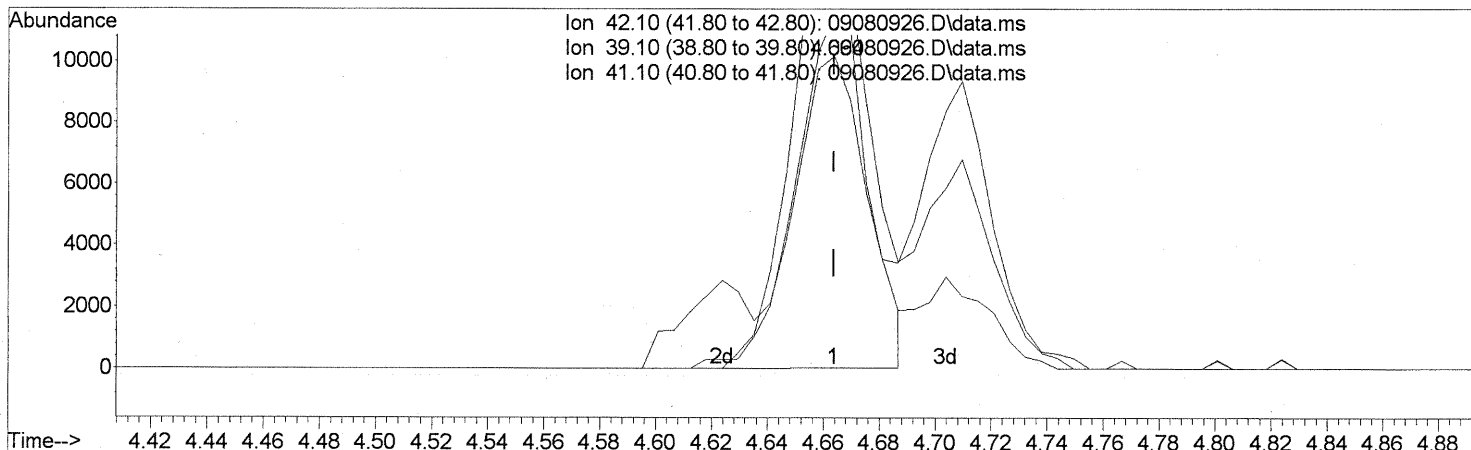
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	918	N.D.		
81) 2-Ethyltoluene	24.55	105	53455	0.757 ng		99
82) 1,2,4-Trimethylbenzene	24.82	105	254089	4.401 ng		92
83) n-Decane	24.93	57	369991	10.735 ng		94
84) Benzyl Chloride	24.99	91	1633	N.D.		
85) 1,3-Dichlorobenzene	25.10	146	1743	0.056 ng		92
86) 1,4-Dichlorobenzene	25.10	146	1743	0.054 ng		92
87) sec-Butylbenzene	25.16	105	30315	0.384 ng	#	78
88) 4-Isopropyltoluene (p-...	25.35	119	66304	0.933 ng		91
89) 1,2,3-Trimethylbenzene	25.35	105	97854	1.617 ng		95
90) 1,2-Dichlorobenzene	25.10	146	1743	0.060 ng		93
91) d-Limonene	25.53	68	65457	2.840 ng	#	74
92) 1,2-Dibromo-3-Chloropr...	26.46	157	522	0.051 ng	#	1
93) n-Undecane	26.46	57	99903	2.792 ng		83
94) 1,2,4-Trichlorobenzene	27.58	180	234	N.D.		
95) Naphthalene	27.72	128	196751	2.466 ng		99
96) n-Dodecane	27.70	57	19247	0.472 ng		93
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	57661	2.409 ng		92
99) tert-Butylbenzene	24.83	119	30723	0.550 ng	#	56
100) n-Butylbenzene	25.86	91	38678	0.602 ng	#	67

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 20:30:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(2) Propene (T)
 4.664min (-0.000) 1.21ng m
 response 22712

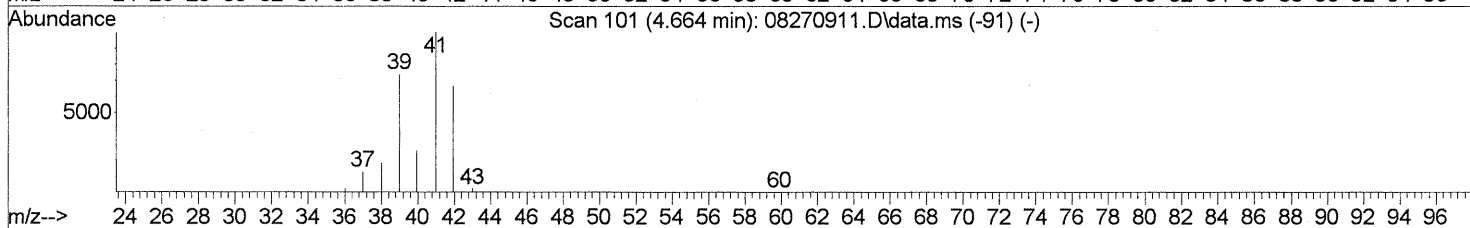
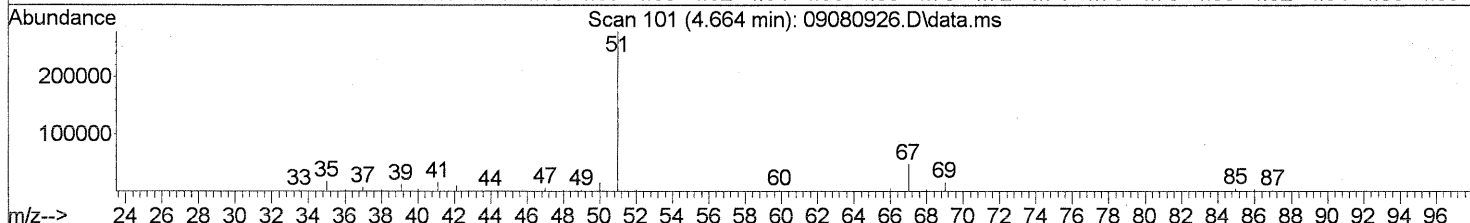
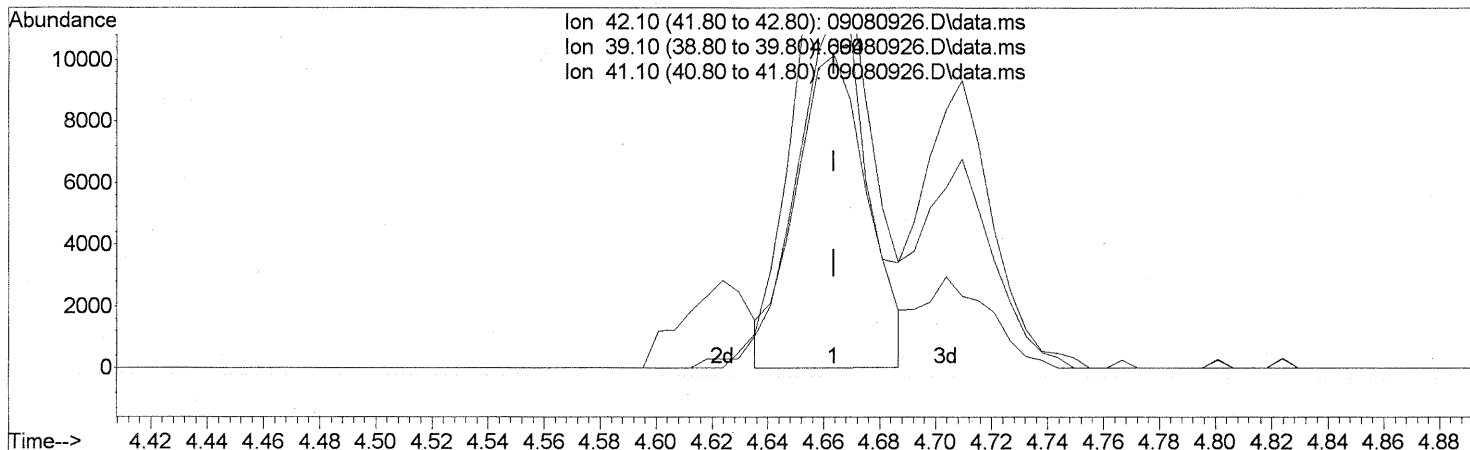
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	92.83
41.10	149.80	129.33#
0.00	0.00	0.00

Be

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 20:30:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(2) Propene (T)
 4.664min (-0.000) 0.96ng m
 response 18118

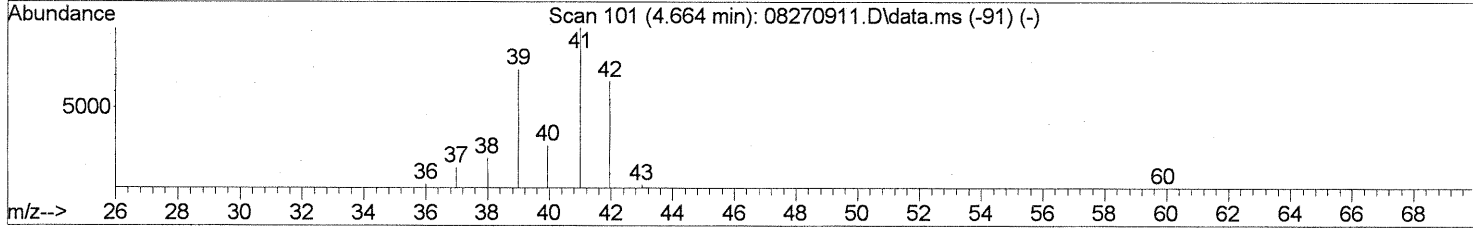
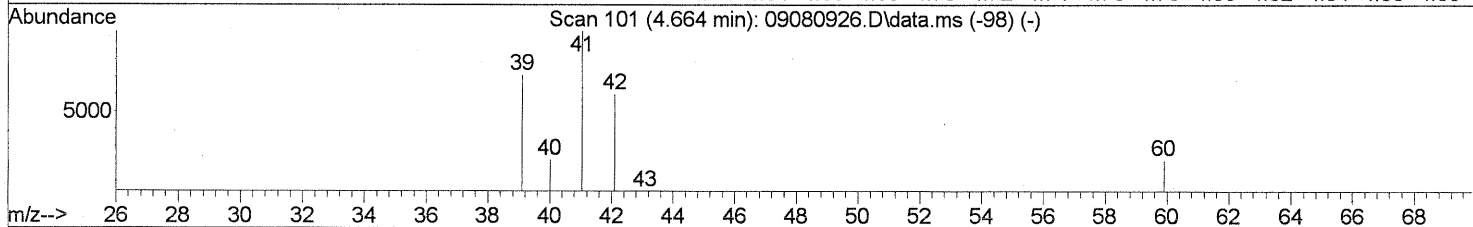
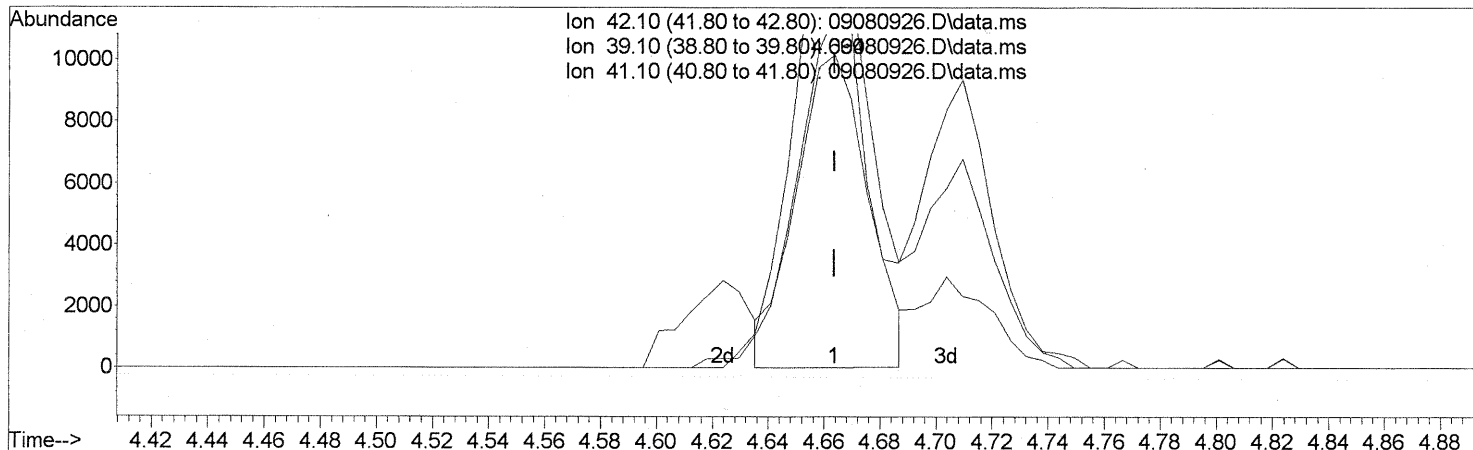
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	116.37
41.10	149.80	162.12
0.00	0.00	0.00

BC-1C
09/15/09
By Jane Smith
09/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 11 20:30:02 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(2) Propene (T)
 4.664min (-0.000) 0.96ng m
 response 18118

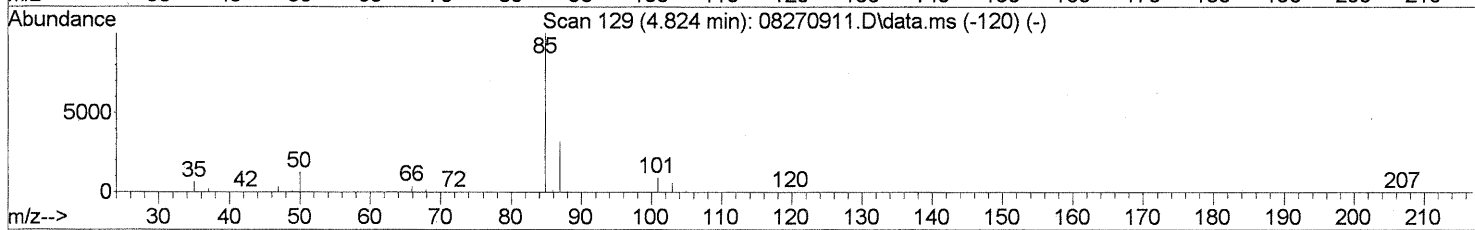
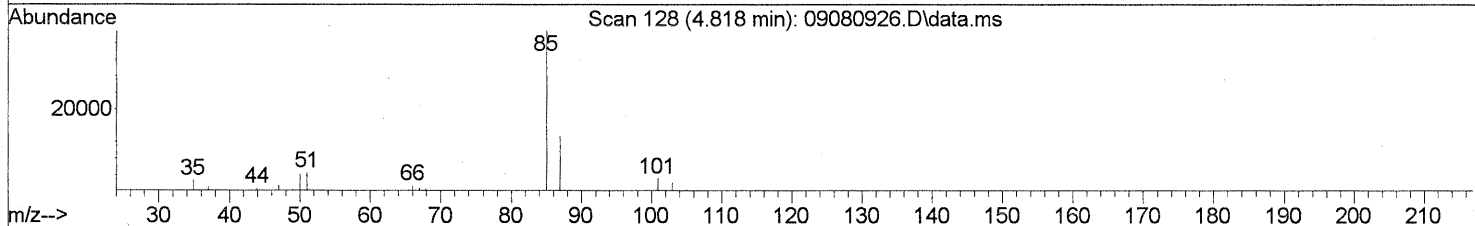
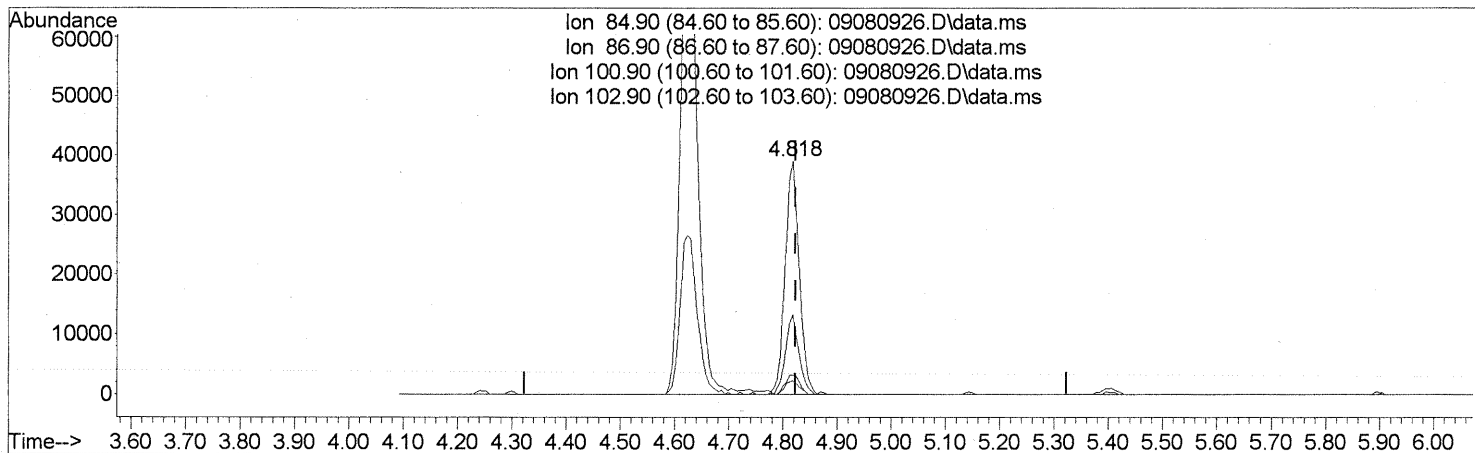
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	116.37
41.10	149.80	162.12
0.00	0.00	0.00

BE - TIC
LM 9/15/09
After subtr.
LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.818min (-0.006) 2.13ng

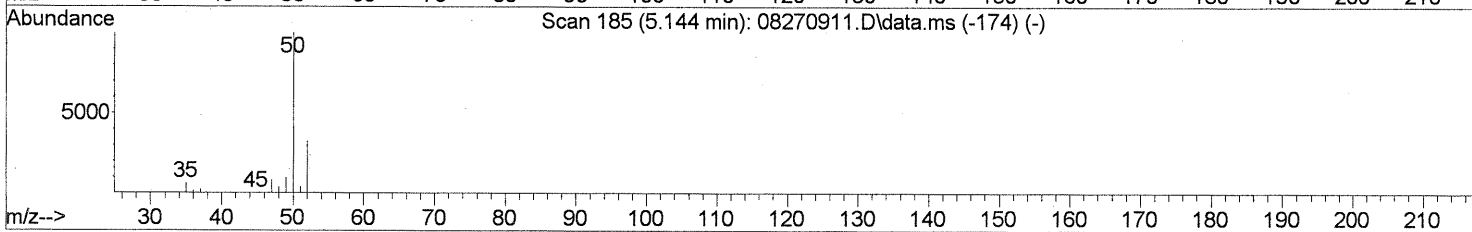
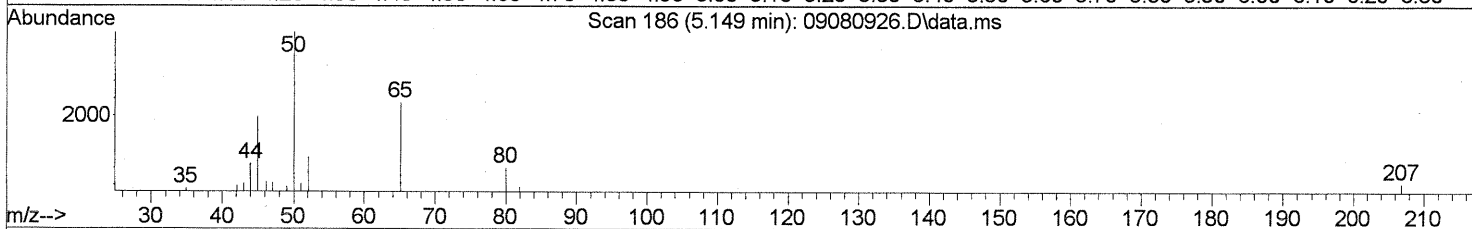
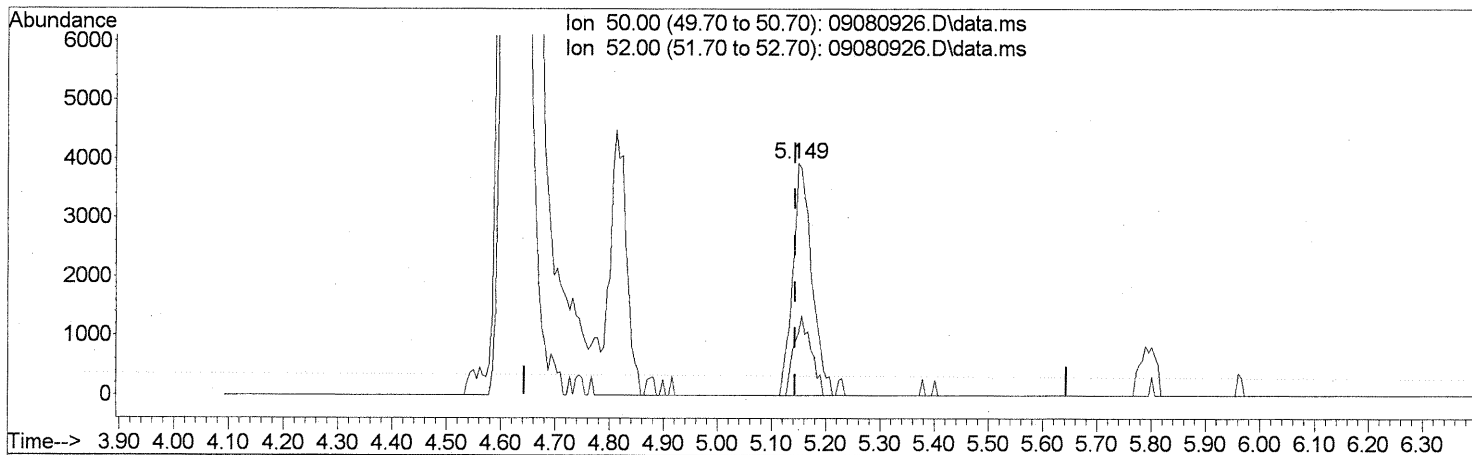
response 70110

Ion	Exp%	Act%
84.90	100	100
86.90	32.00	32.56
100.90	8.80	8.43
102.90	5.60	5.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

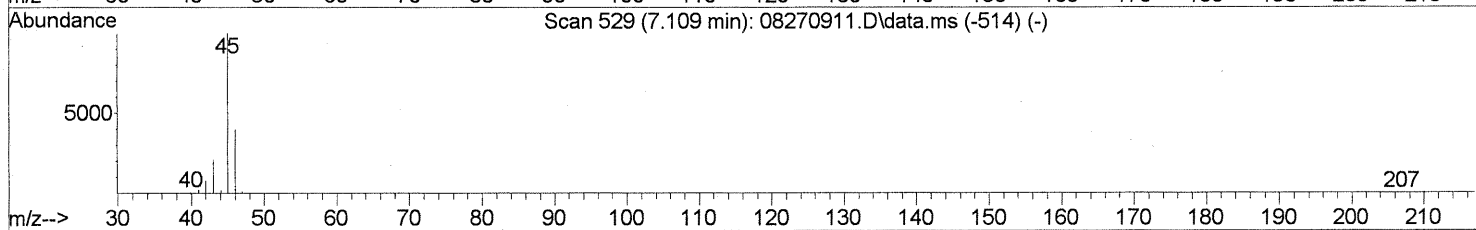
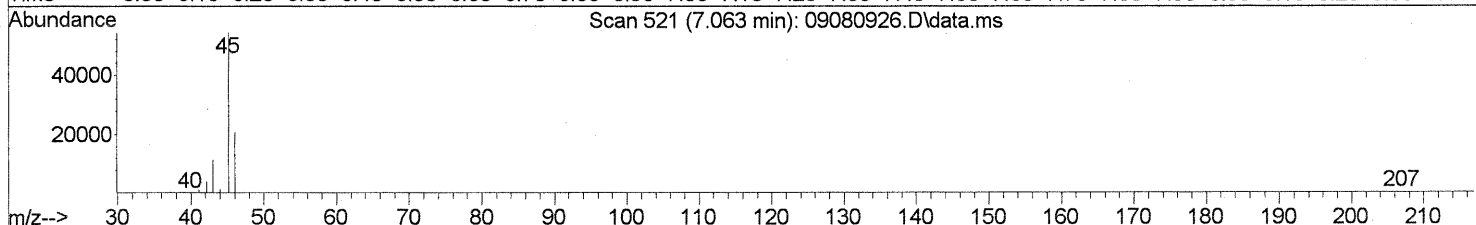
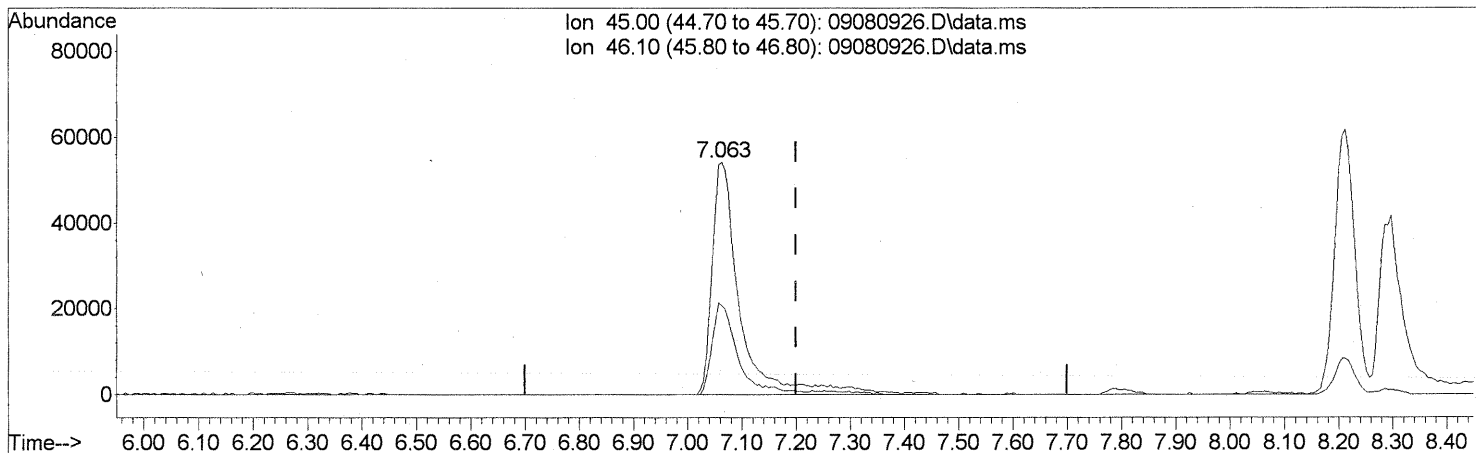
(4) Chloromethane (T)
 5.149min (+0.006) 0.44ng
 response 9649

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	30.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

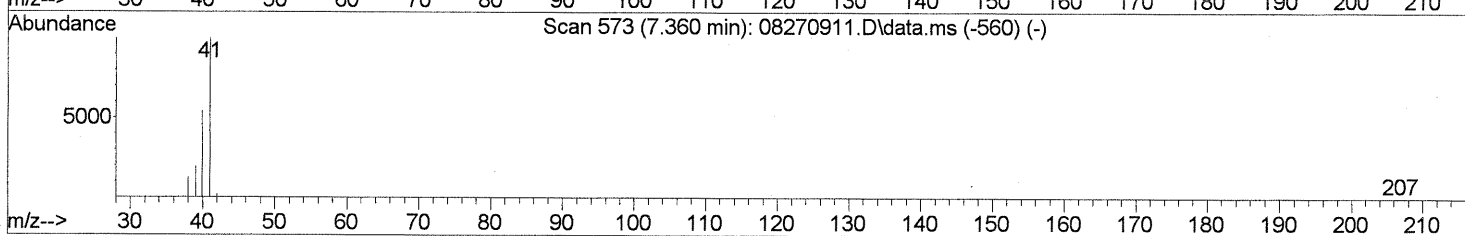
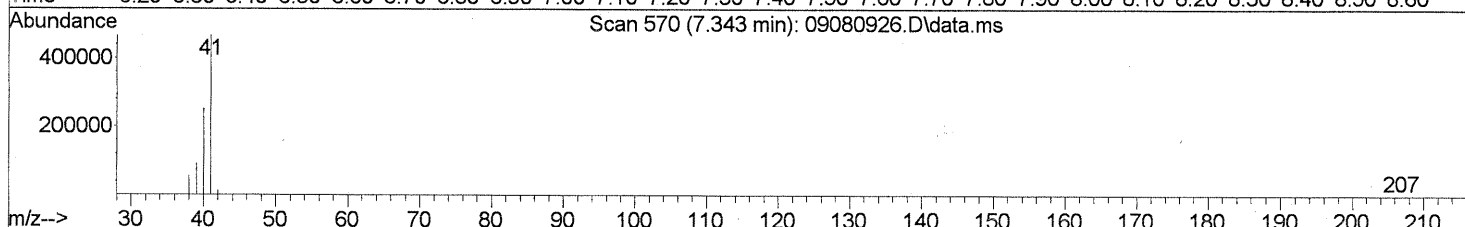
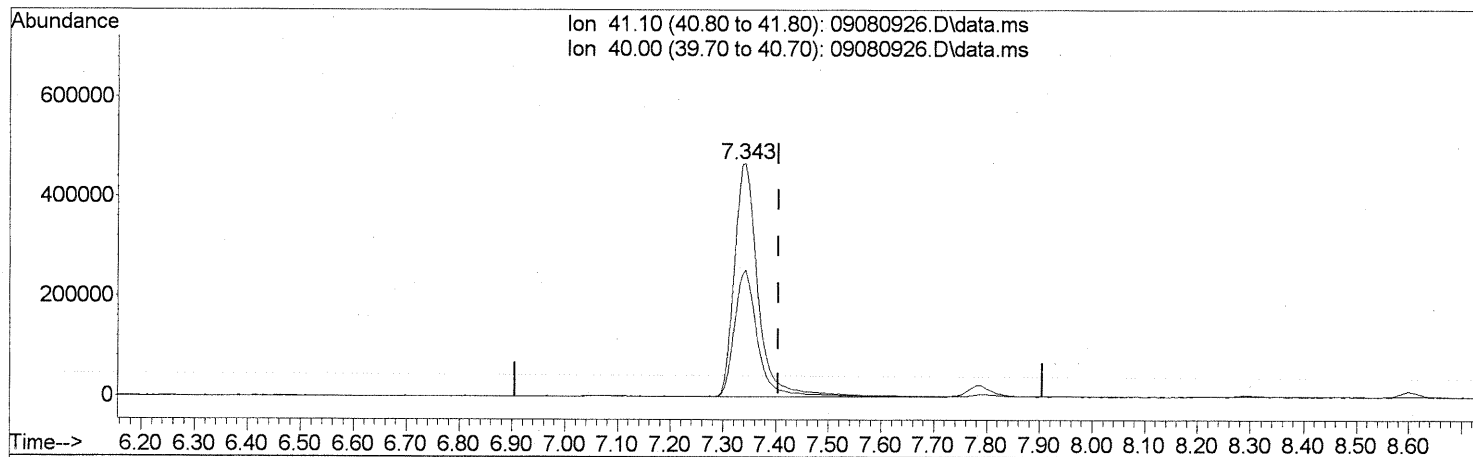
(10) Ethanol (T)
 7.063min (-0.137) 16.47ng
 response 191931

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	36.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

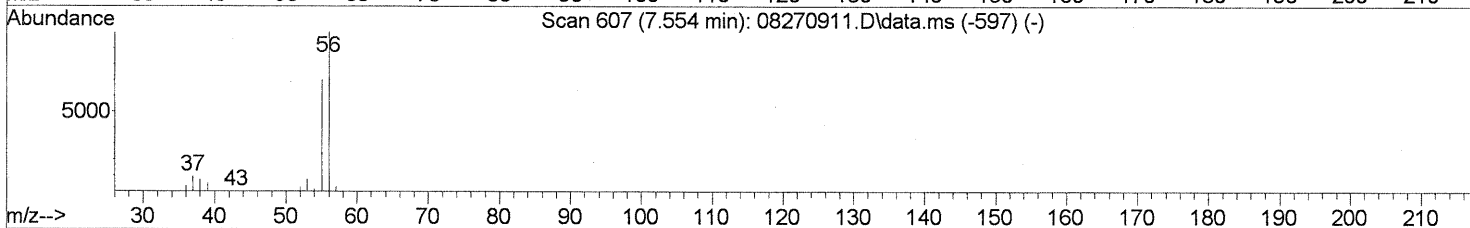
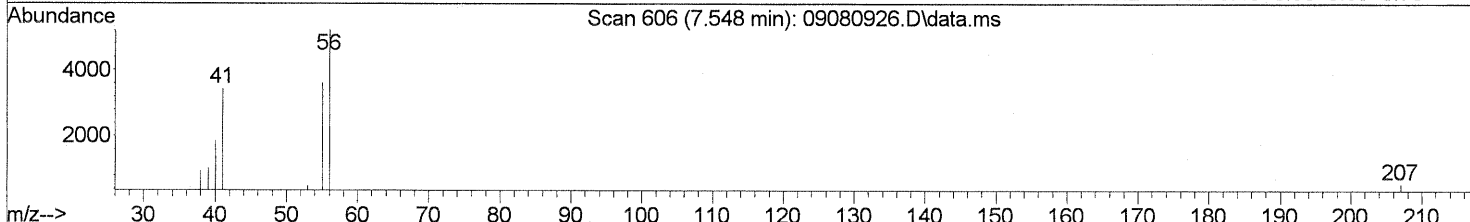
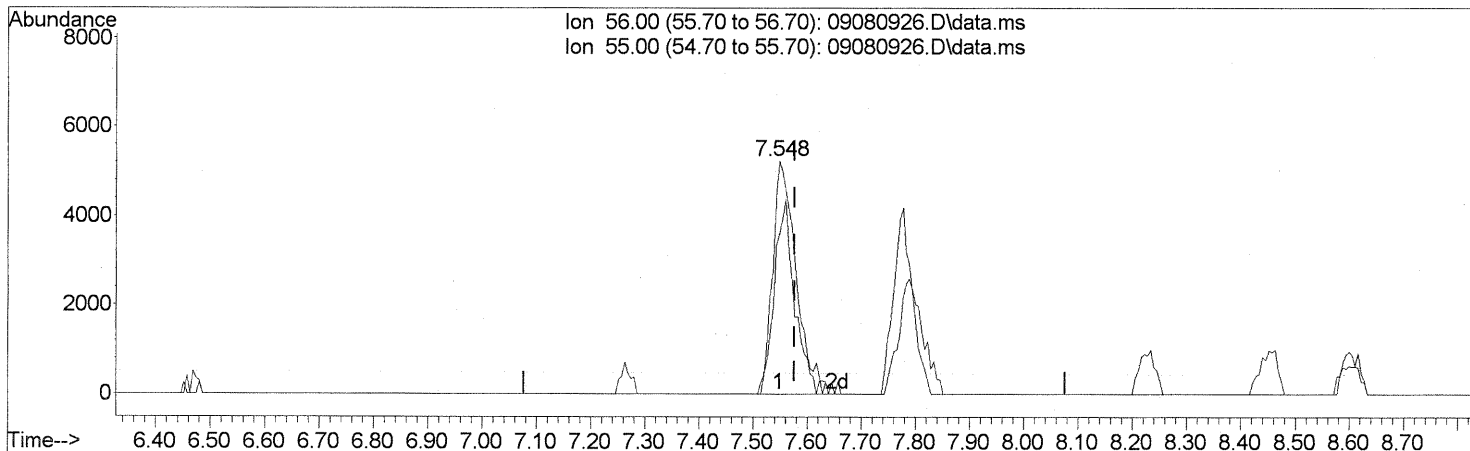
(11) Acetonitrile (T)
 7.343min (-0.063) 45.26ng
 response 1465178

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	53.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



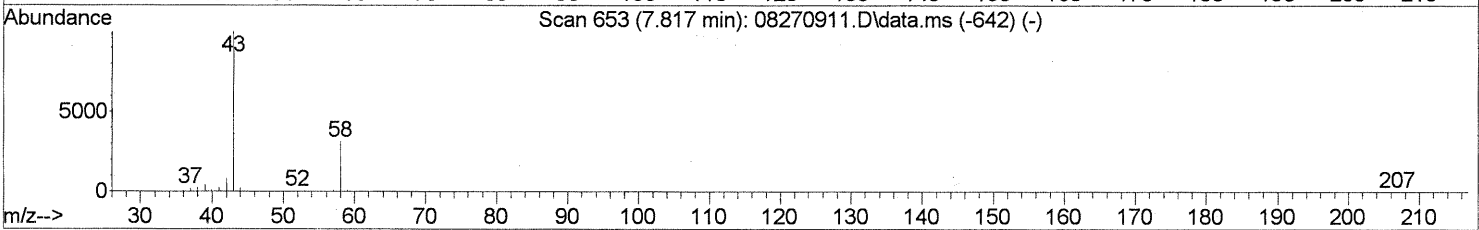
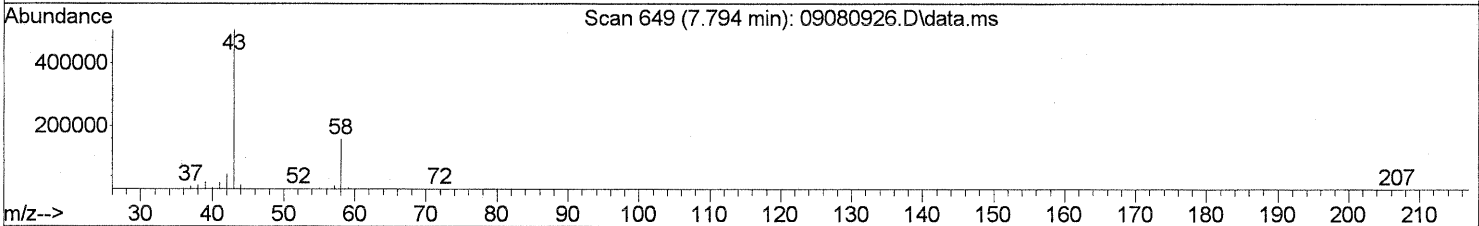
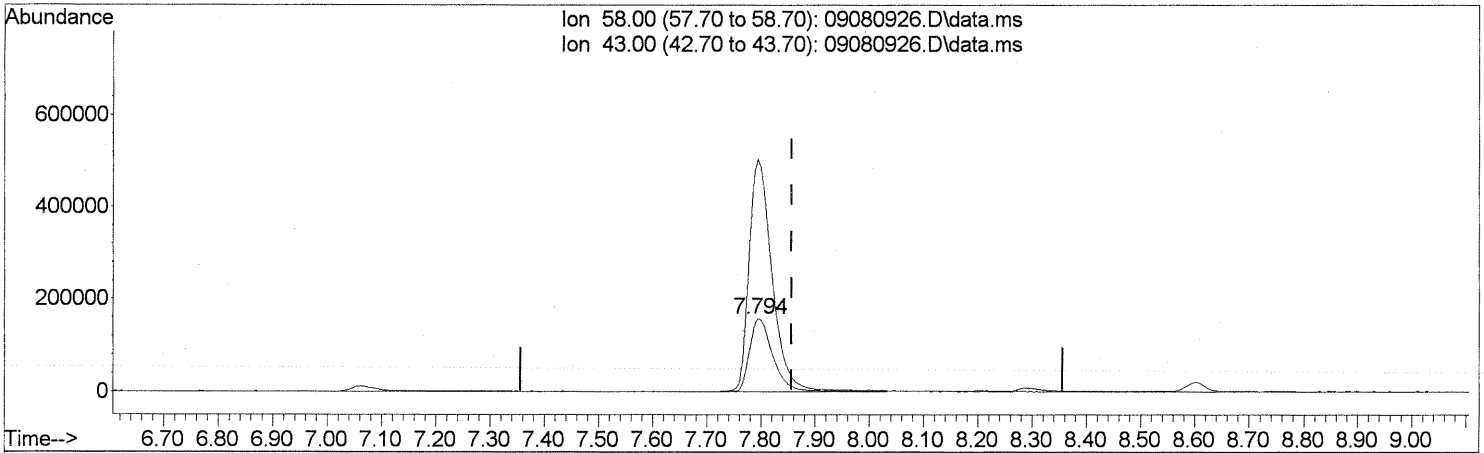
TIC: 09080926.D\data.ms

(12) Acrolein (T)		
7.548min (-0.029) 1.74ng		
response 15498		
Ion	Exp%	Act%
56.00	100	100
55.00	71.10	72.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

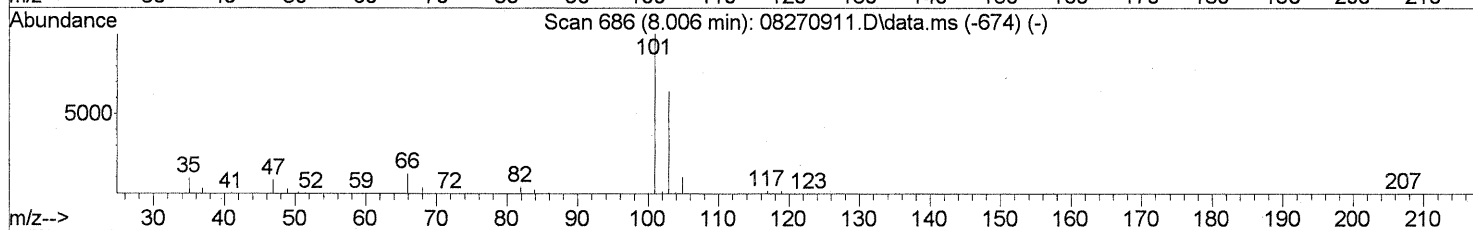
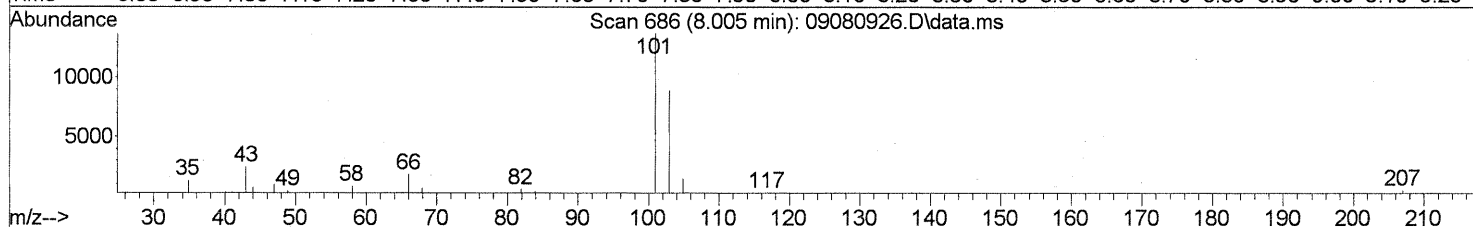
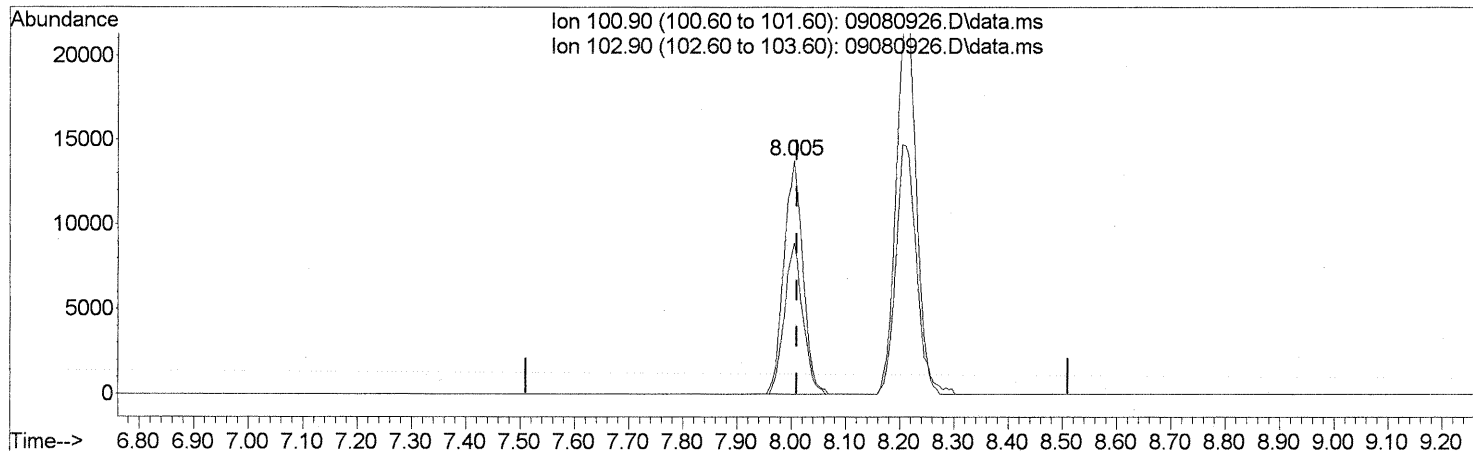
(13) Acetone (T)
 7.794min (-0.063) 39.12ng
 response 471527

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	319.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(14) Trichlorofluoromethane (T)

8.005min (-0.006) 1.16ng

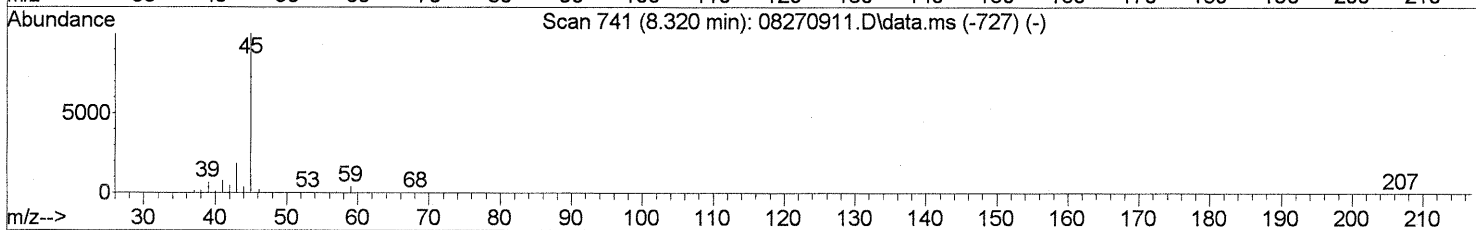
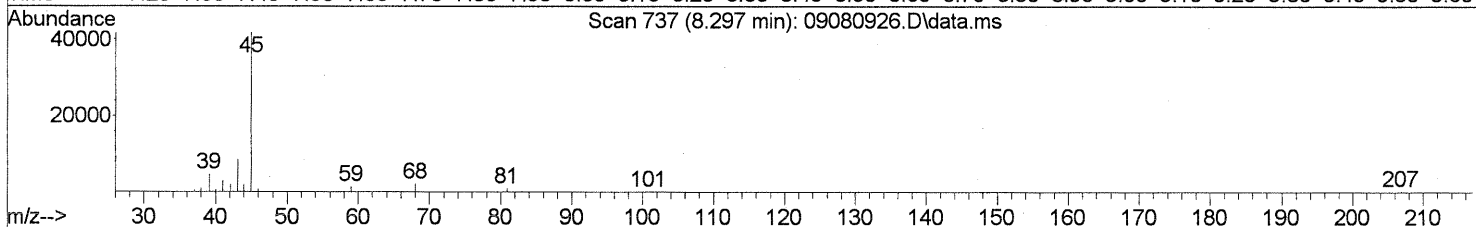
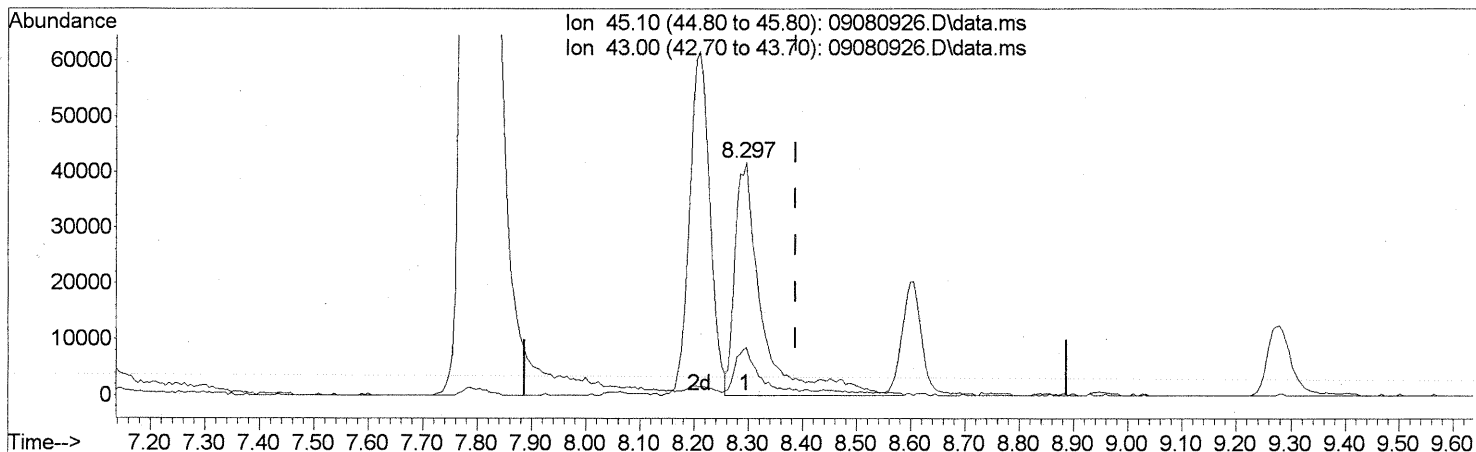
response 33508

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	62.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

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

8.297min (-0.091) 3.63ng

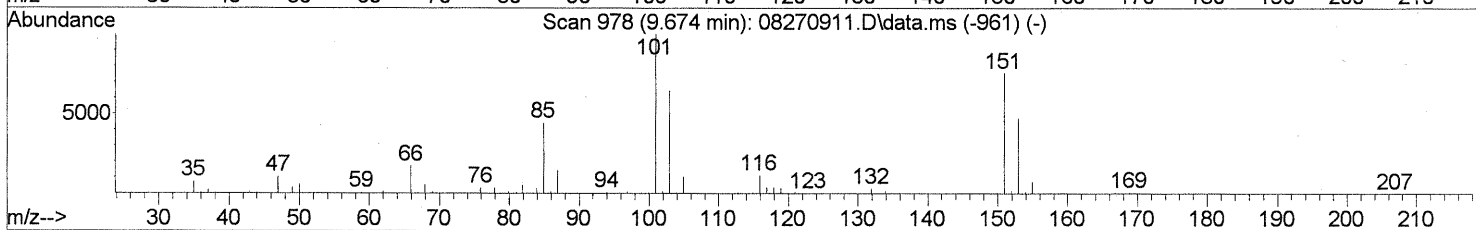
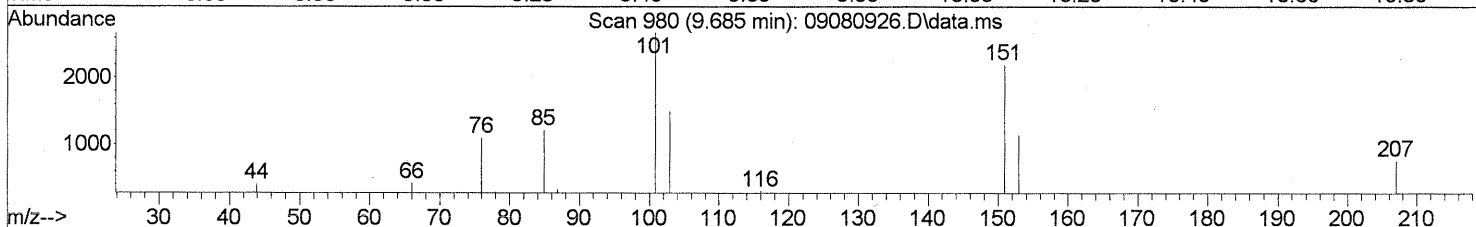
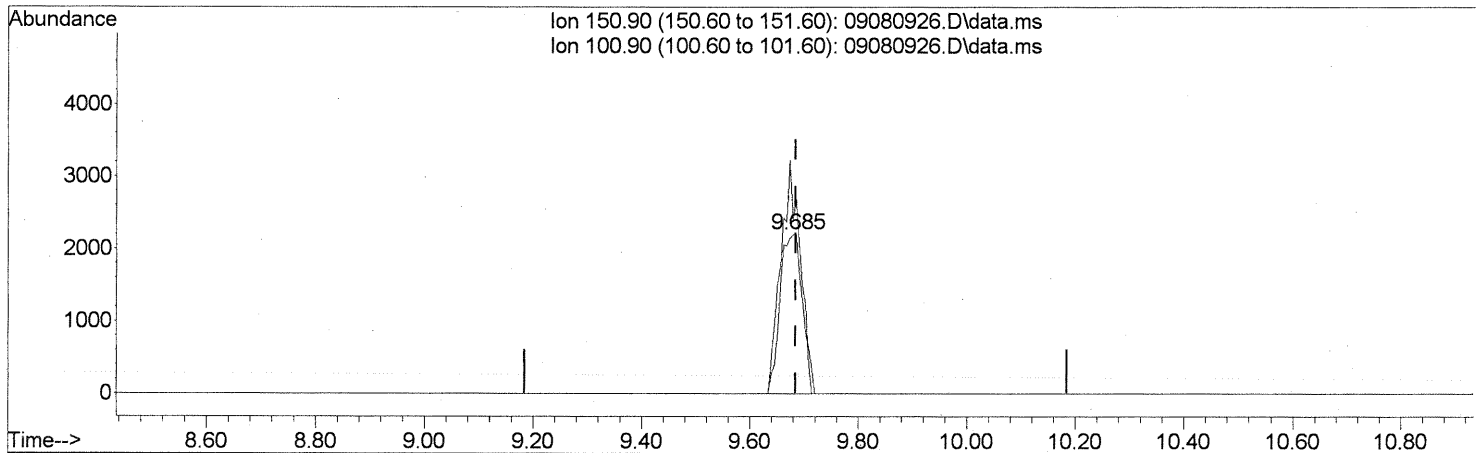
response 145422

Ion	Exp%	Act%
45.10	100	100
43.00	18.70	19.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.685min (0.000) 0.55ng

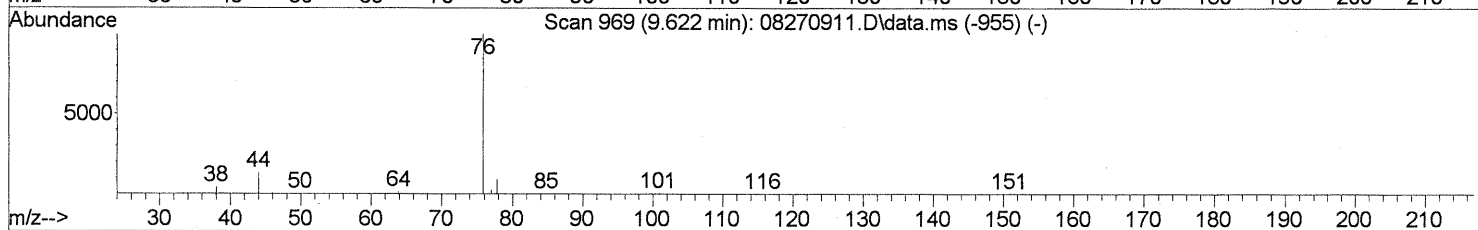
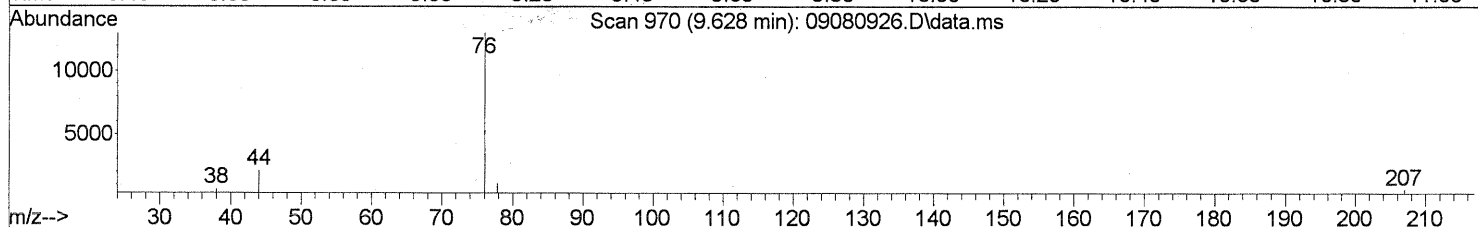
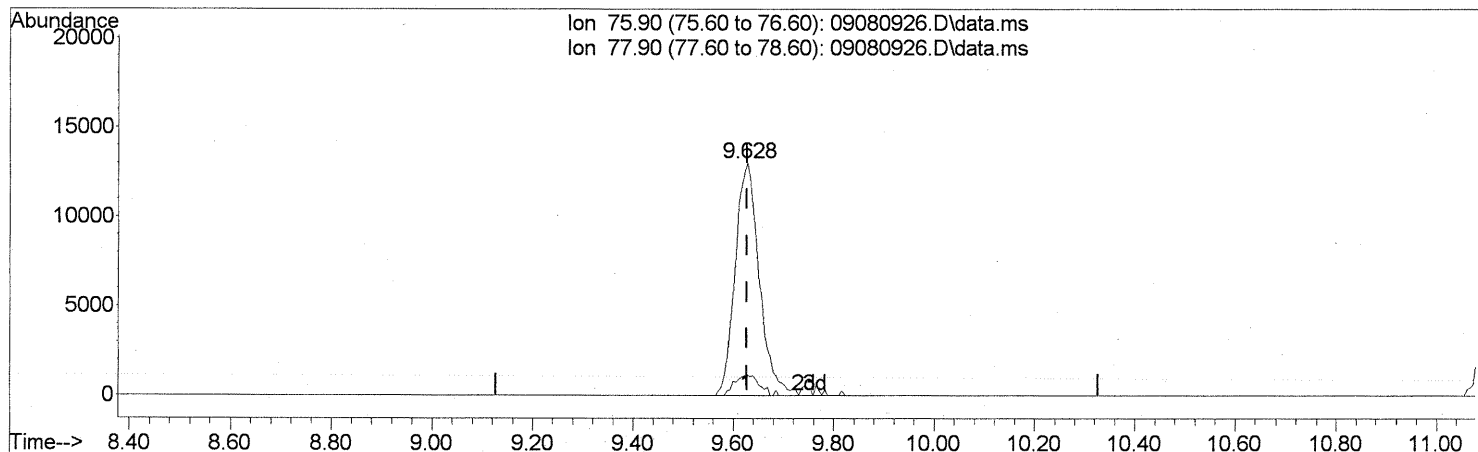
response 6278

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	125.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

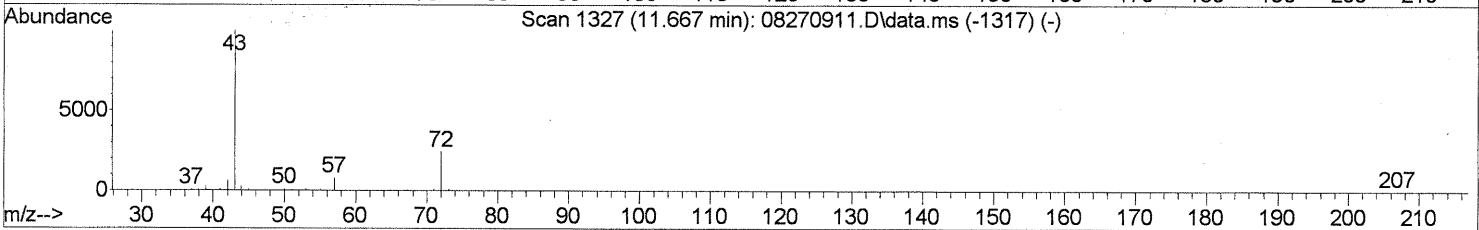
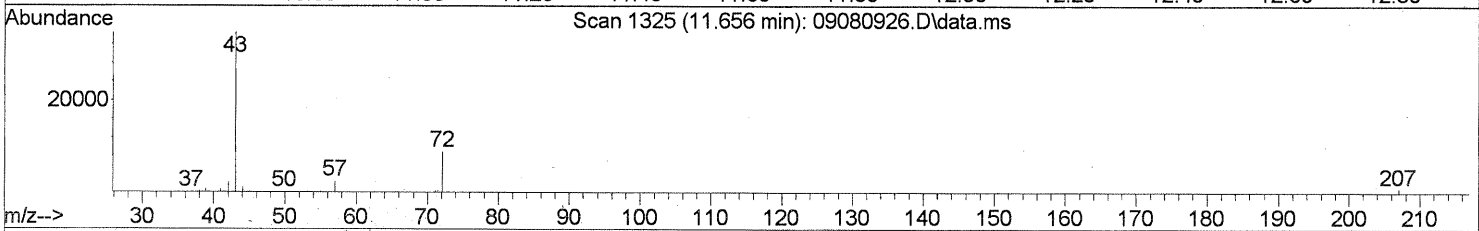
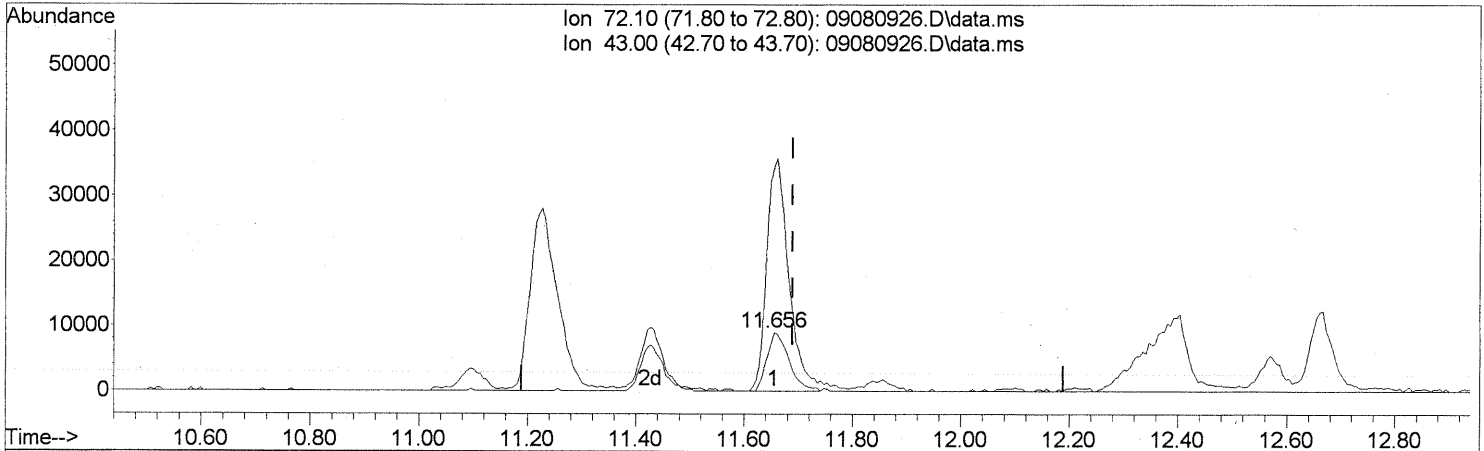
(22) Carbon Disulfide (T)
 9.628min (-0.000) 0.79ng
 response 43203

Ion	Exp%	Act%
75.90	100	100
77.90	9.40	8.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

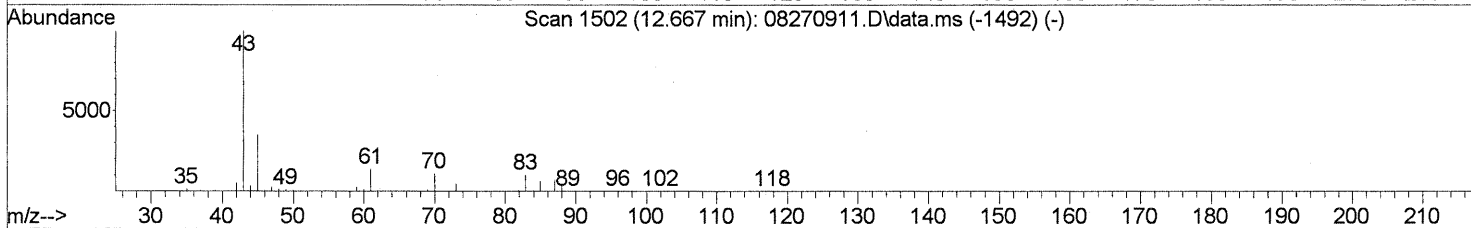
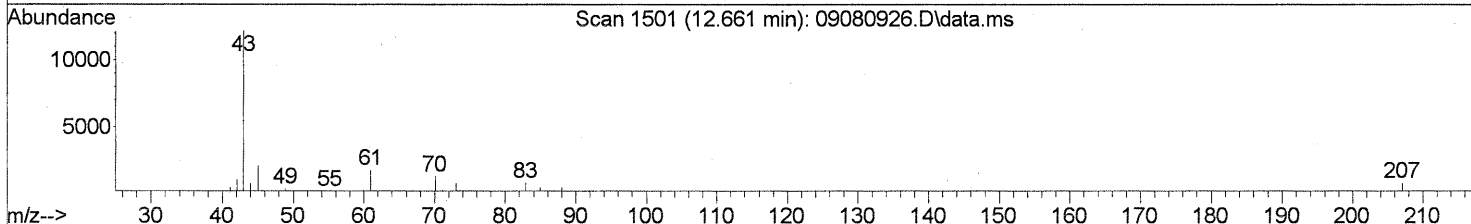
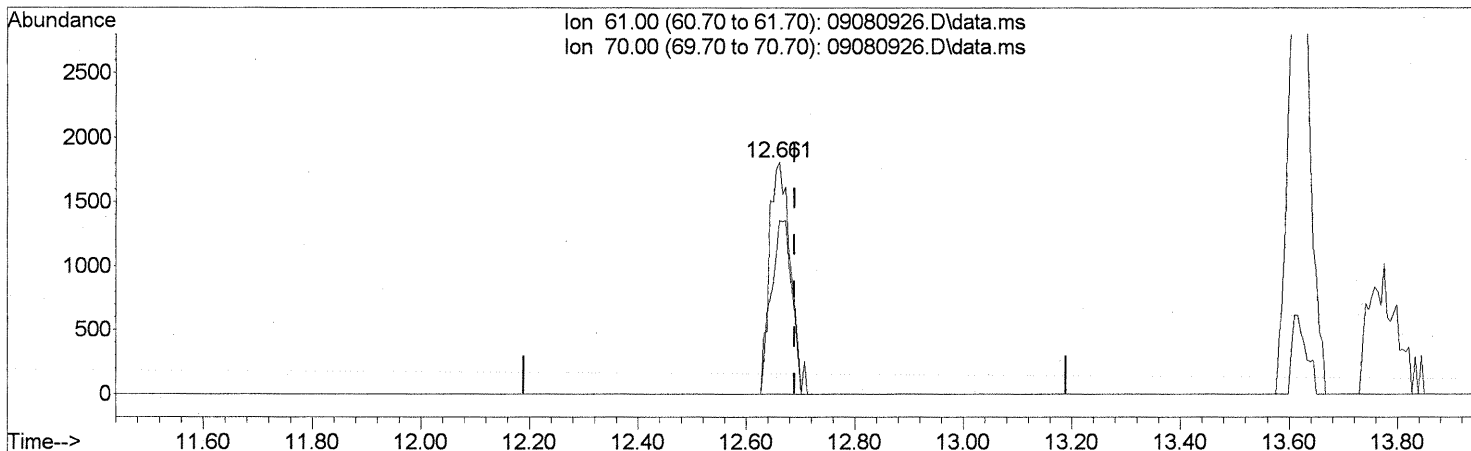
(27) 2-Butanone (MEK) (T)
 11.656min (-0.034) 2.59ng
 response 25216

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	409.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

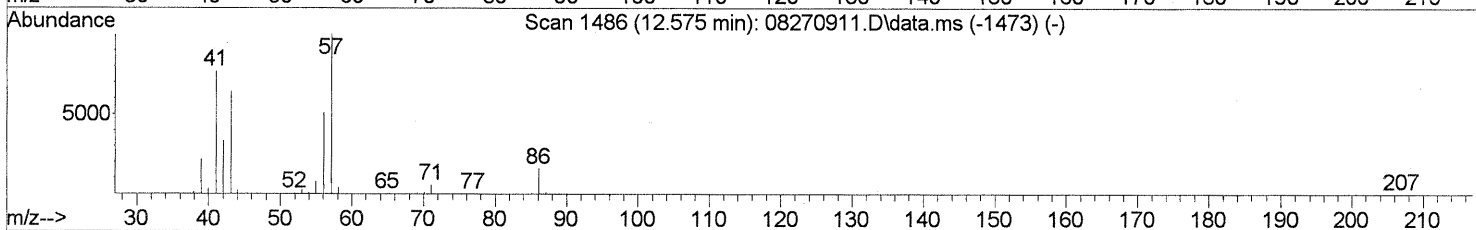
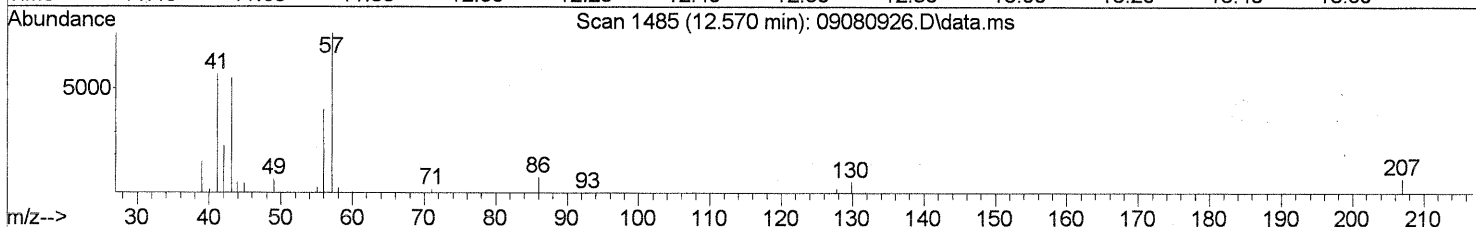
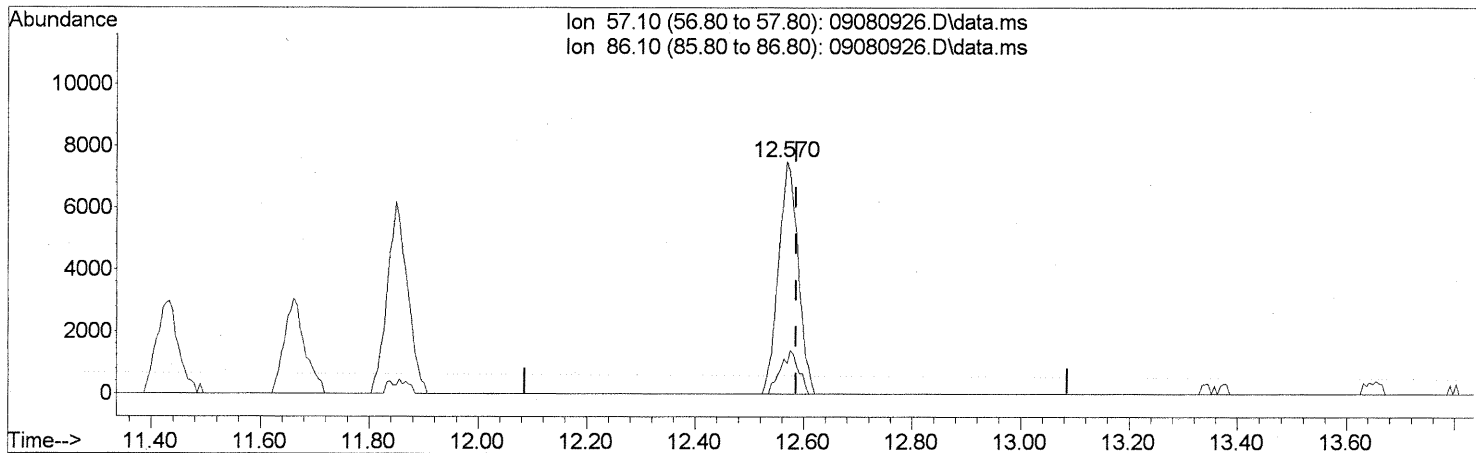
(30) Ethyl Acetate (T)
 12.661min (-0.029) 0.92ng
 response 4812

Ion	Exp%	Act%
61.00	100	100
70.00	78.70	74.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

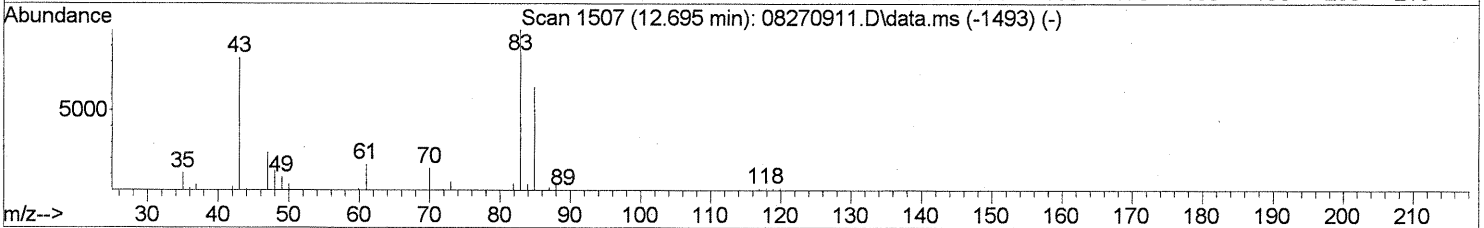
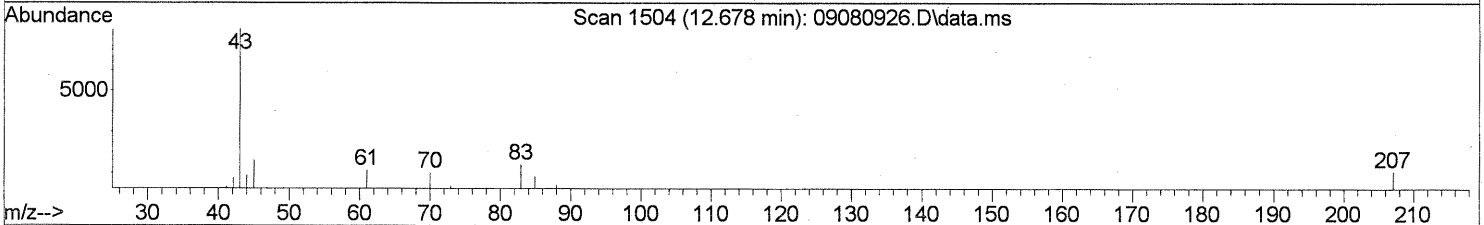
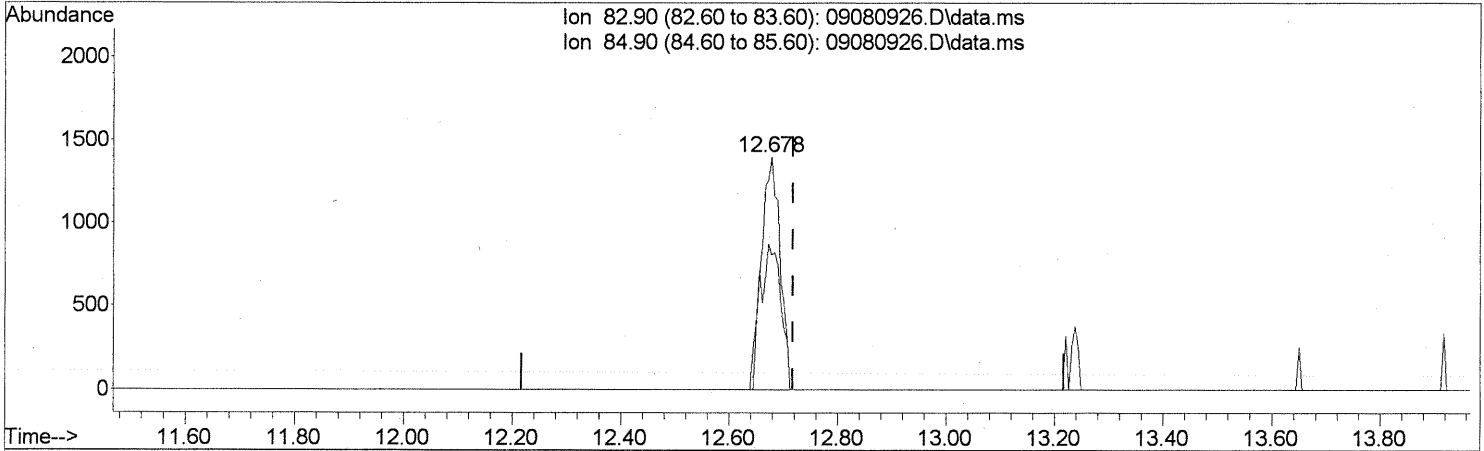
(31) n-Hexane (T)
 12.570min (-0.017) 0.72ng
 response 18771

Ion	Exp%	Act%
57.10	100	100
86.10	15.40	17.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

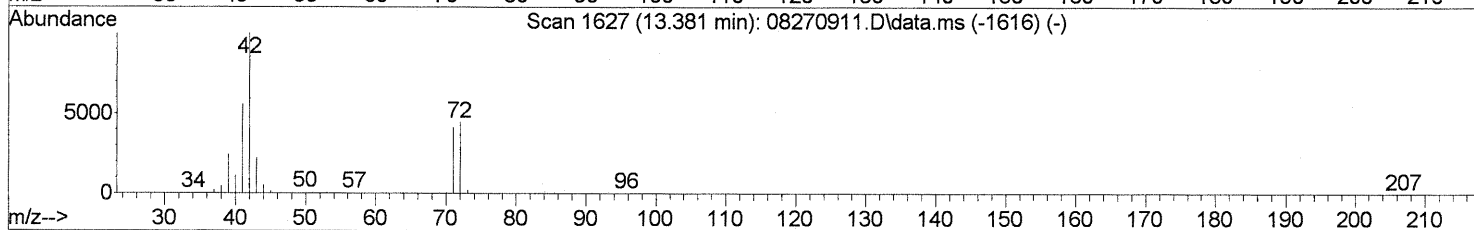
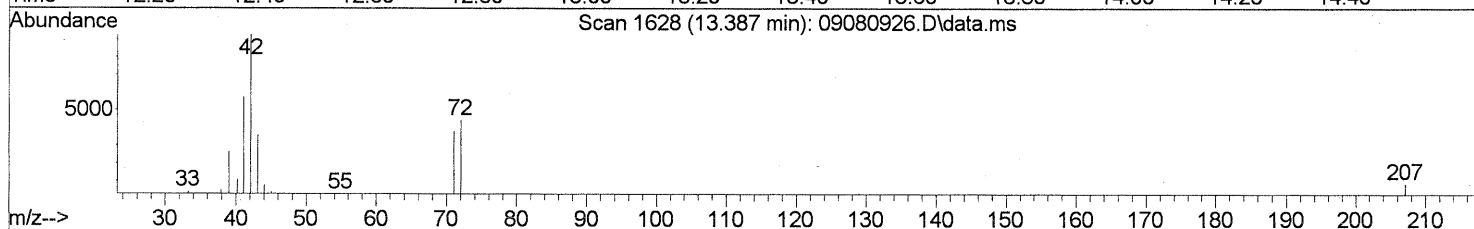
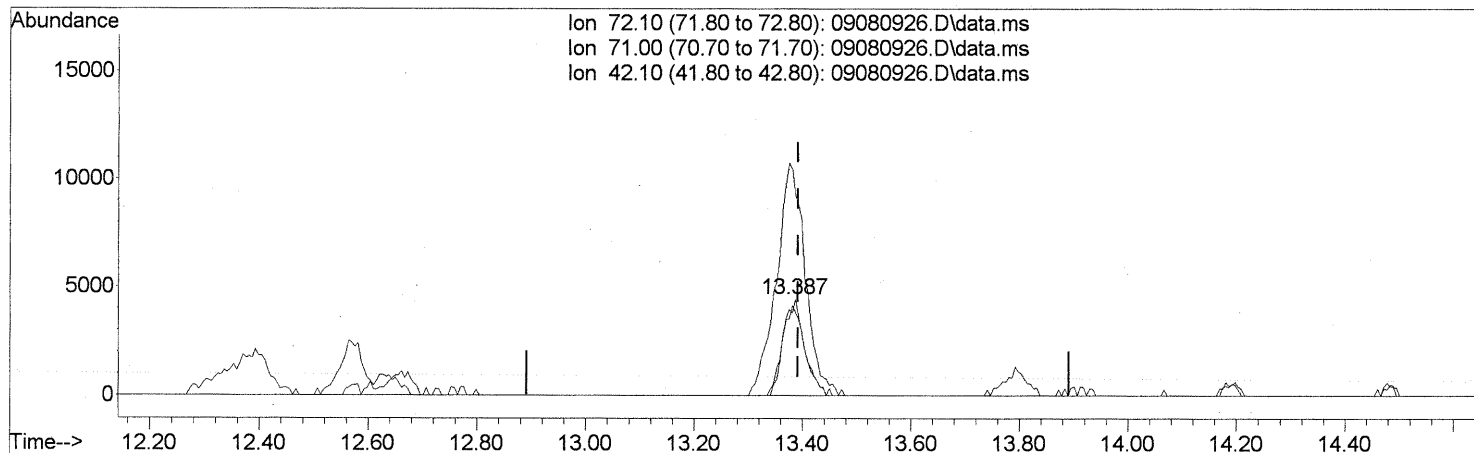
(32) Chloroform (T)
 12.678min (-0.040) 0.13ng
 response 3273

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	72.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

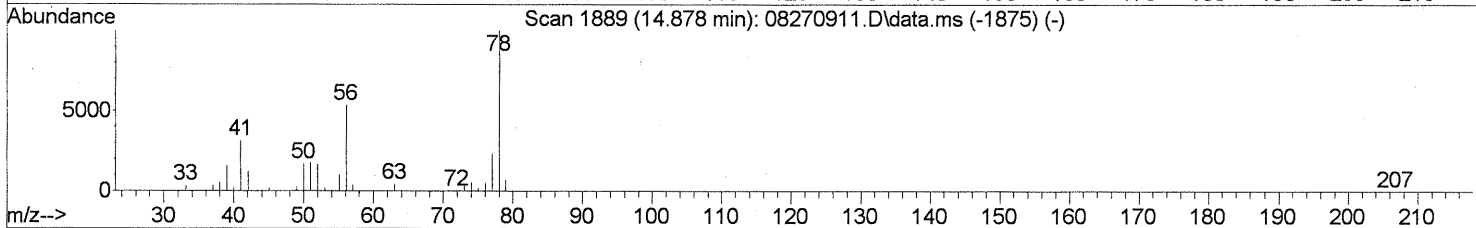
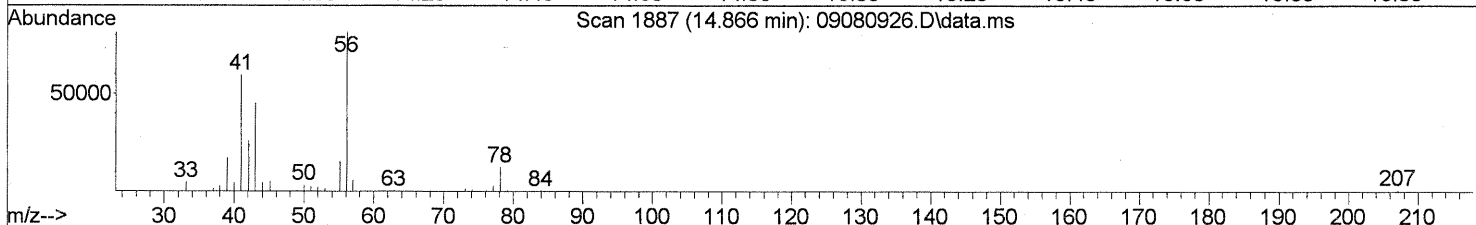
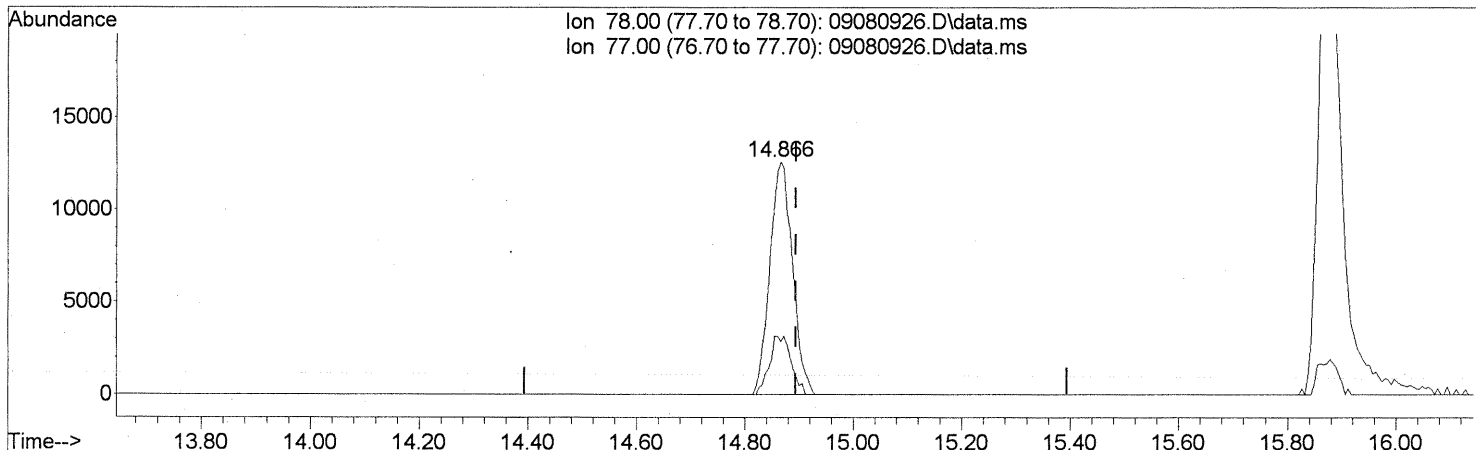
(34) Tetrahydrofuran (THF) (T)
 13.387min (-0.005) 1.17ng
 response 12346

Ion	Exp%	Act%
72.10	100	100
71.00	92.50	94.84
42.10	254.10	320.07#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

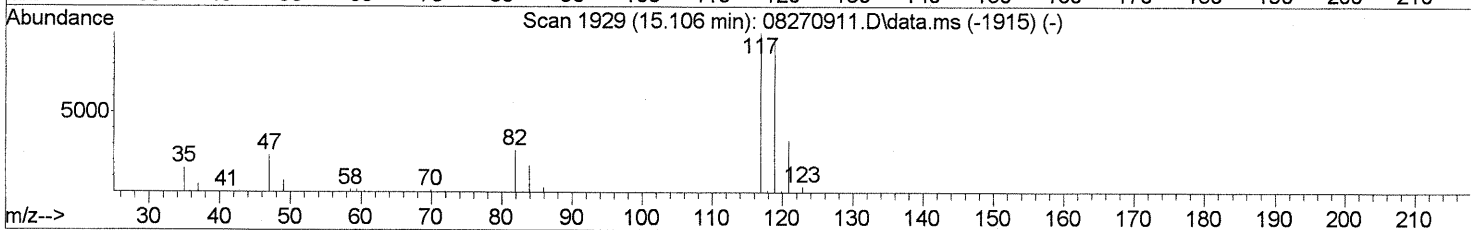
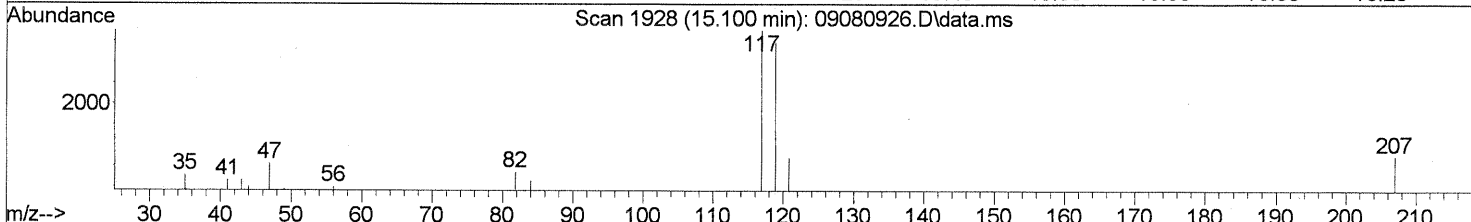
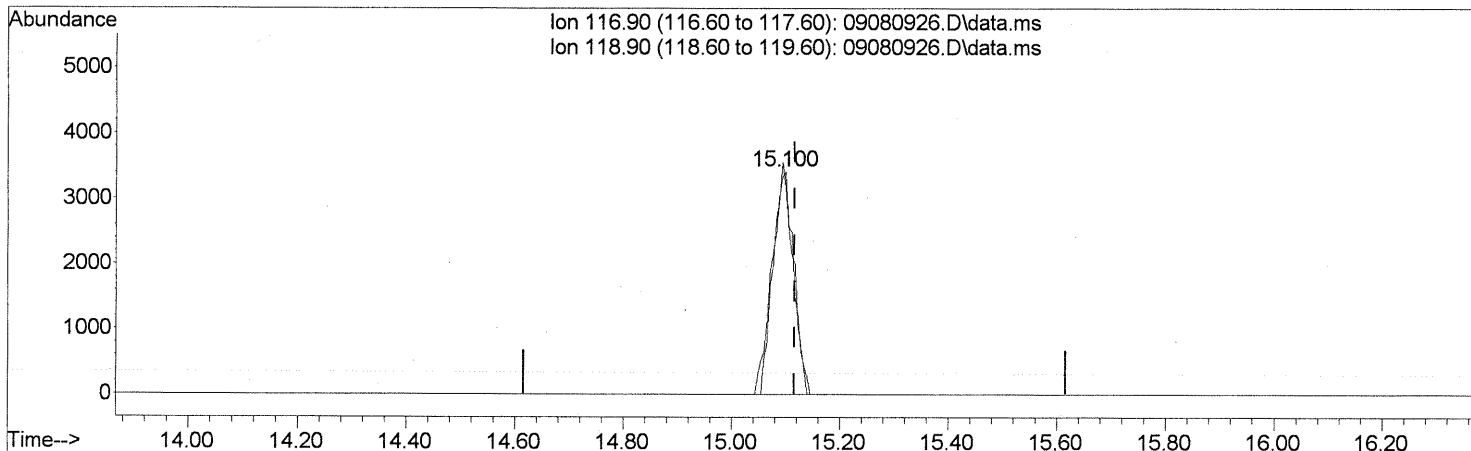
(41) Benzene (T)
 14.866min (-0.029) 0.59ng
 response 36440

Ion	Exp%	Act%
78.00	100	100
77.00	23.20	23.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

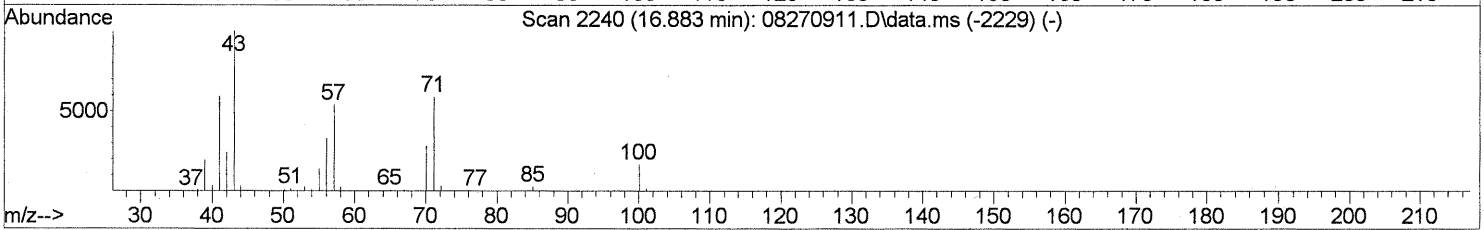
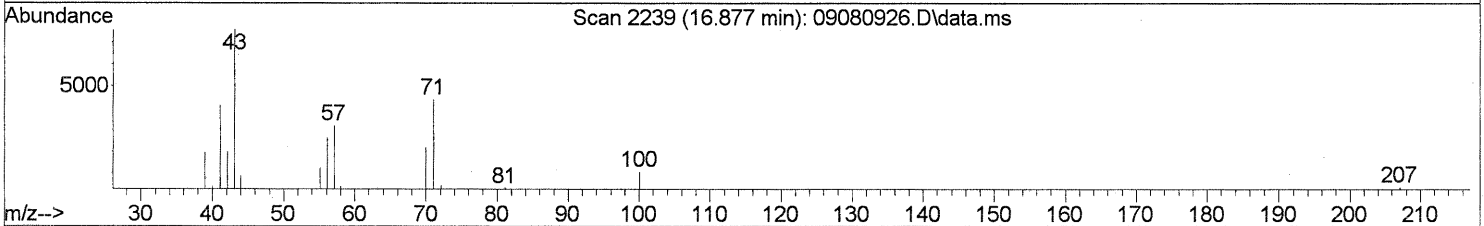
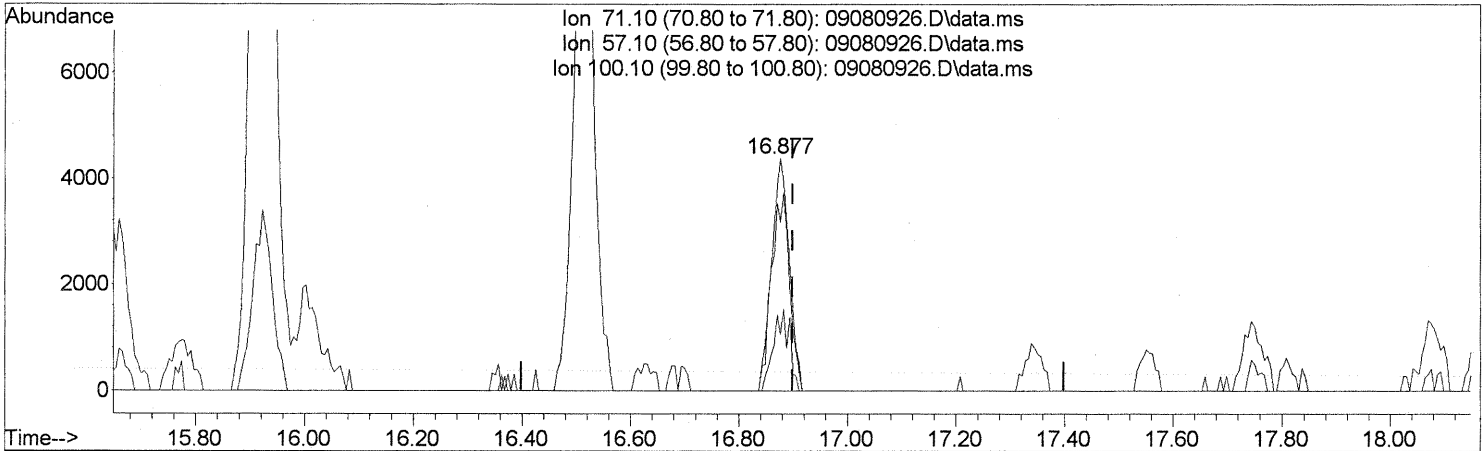
(42) Carbon Tetrachloride (T)
 15.100min (-0.017) 0.46ng
 response 9497

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	95.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

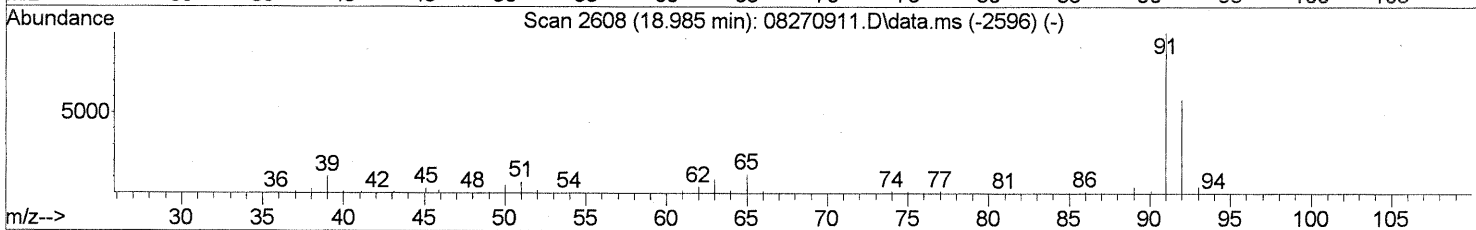
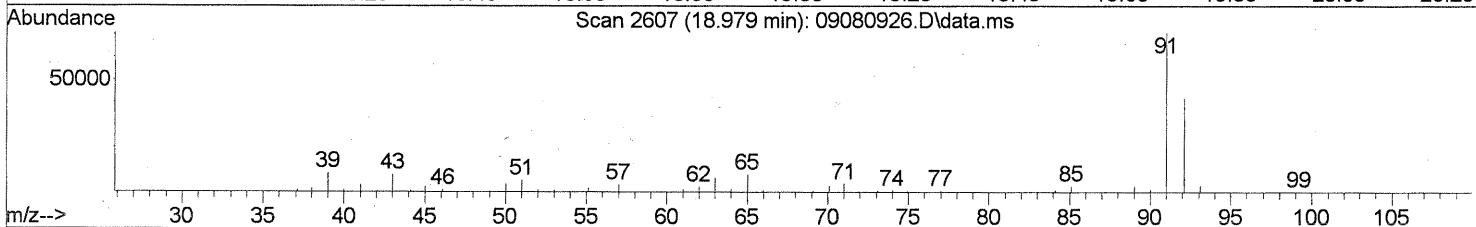
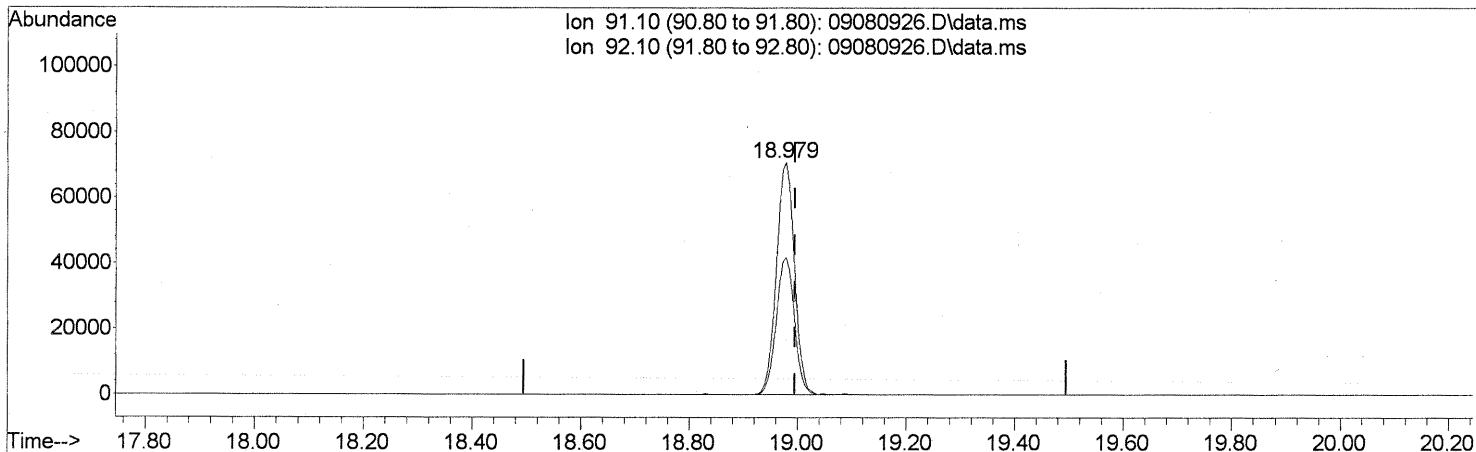
(51) n-Heptane (T)
 16.877min (-0.023) 0.62ng
 response 9923

Ion	Exp%	Act%
71.10	100	100
57.10	89.80	86.86
100.10	22.00	31.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

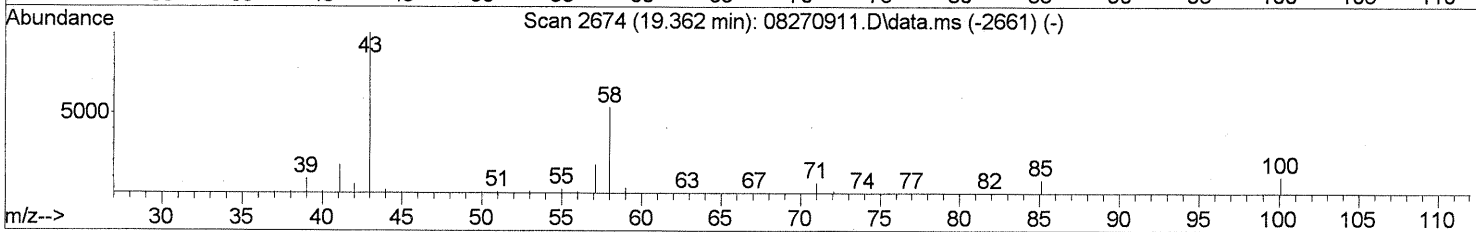
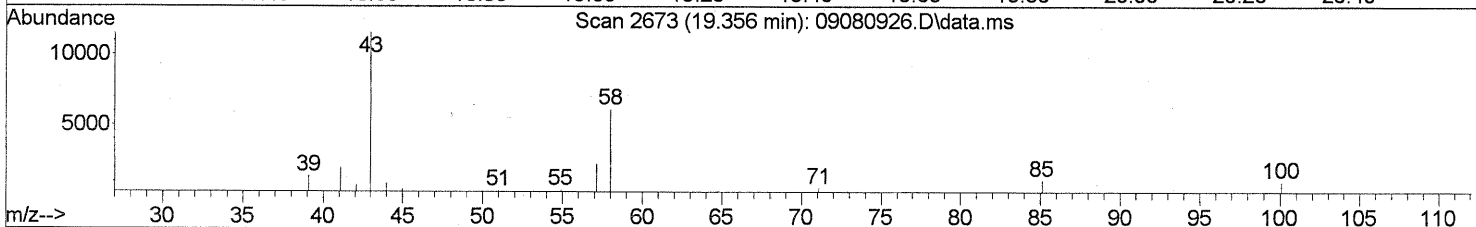
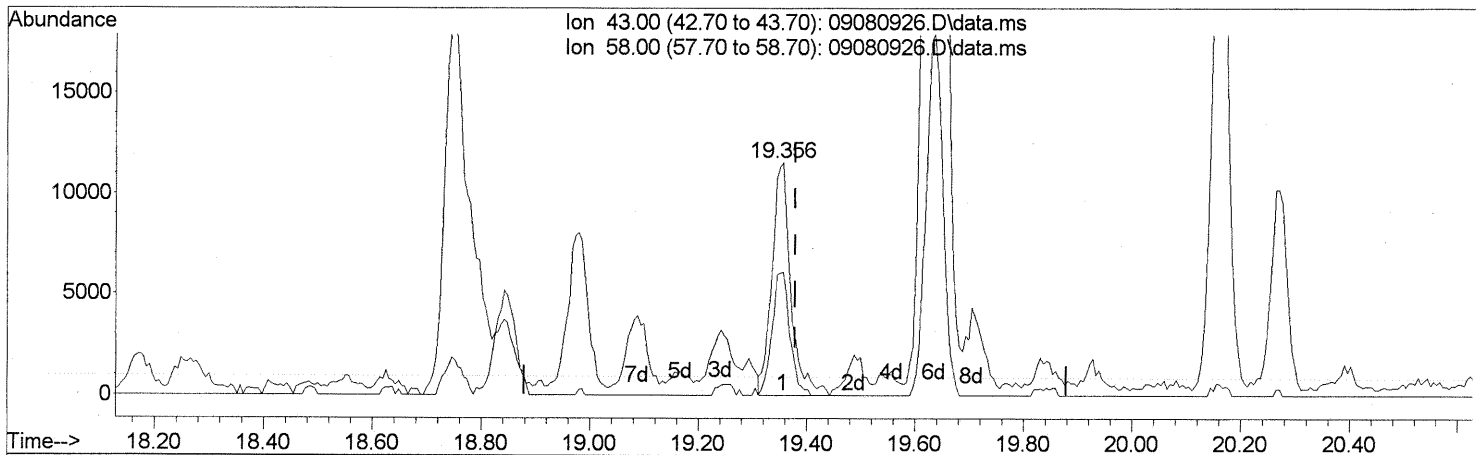
(58) Toluene (T)
 18.979min (-0.017) 2.63ng
 response 163305

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

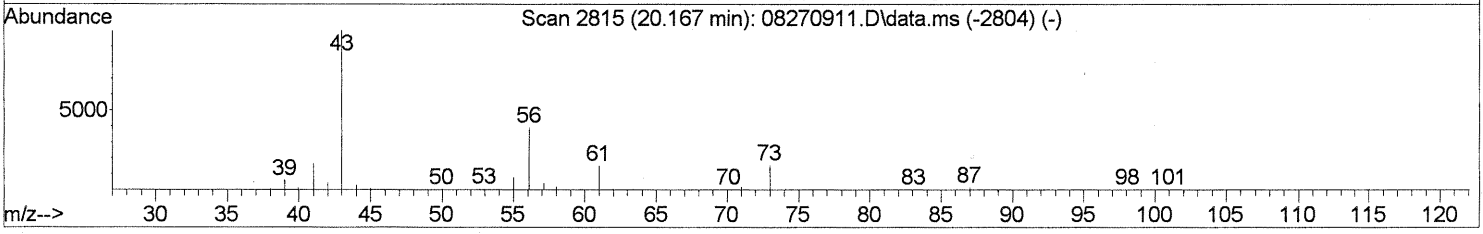
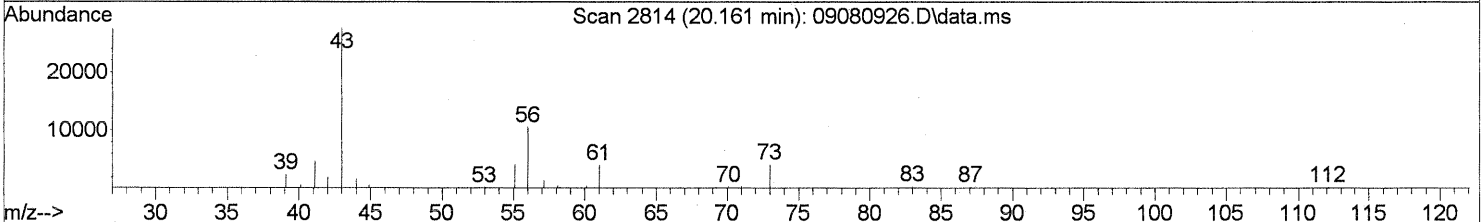
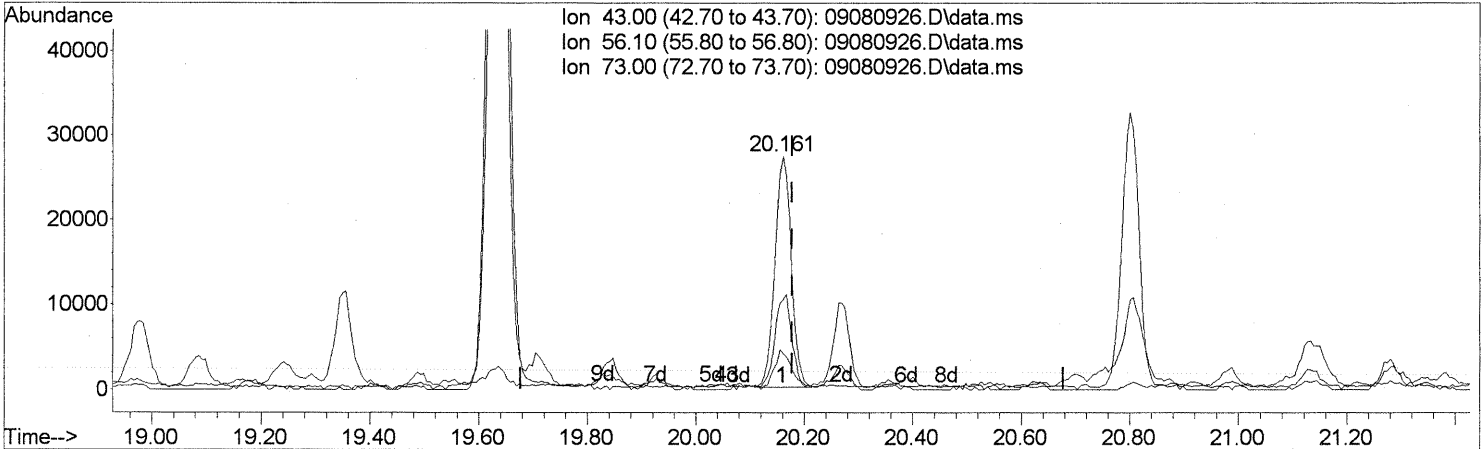
(59) 2-Hexanone (T)
 19.356min (-0.023) 0.73ng
 response 27848

Ion	Exp%	Act%
43.00	100	100
58.00	51.70	50.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

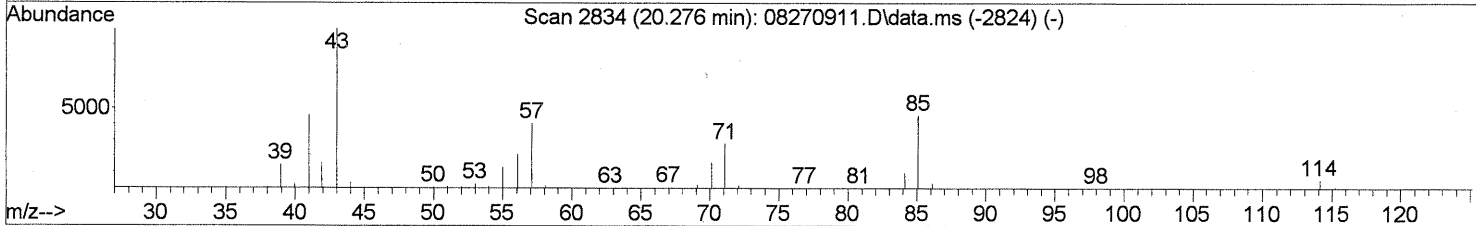
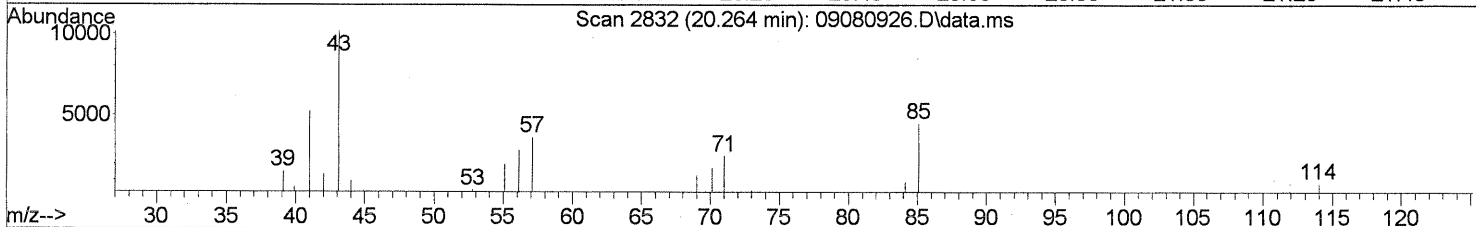
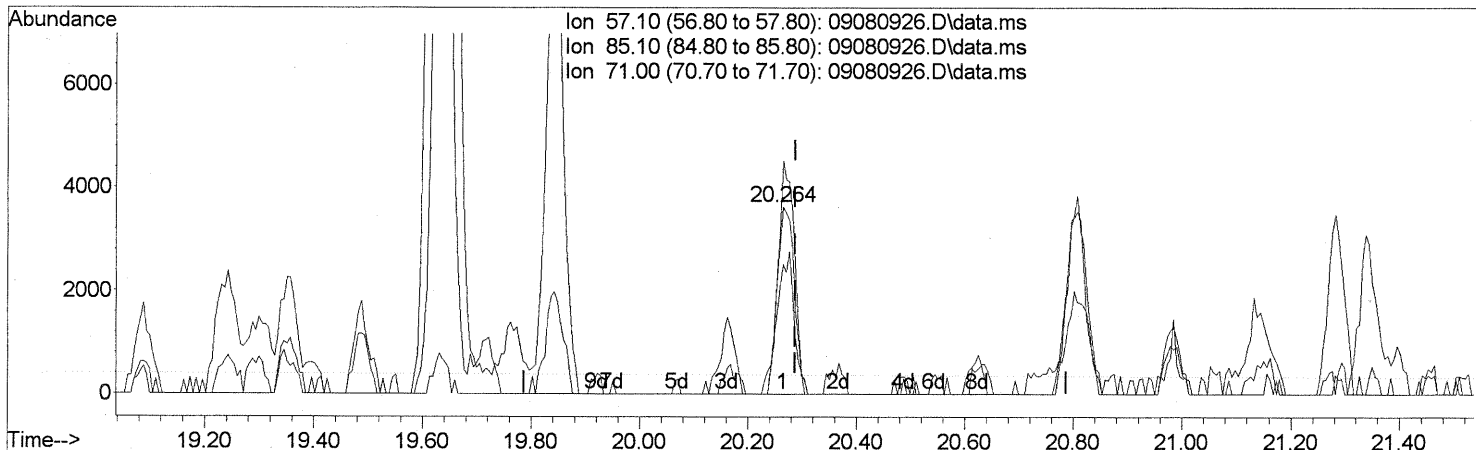
(62) n-Butyl Acetate (T)
 20.161min (-0.017) 1.30ng
 response 56676

Ion	Exp%	Act%
43.00	100	100
56.10	39.50	45.24
73.00	14.30	19.35
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

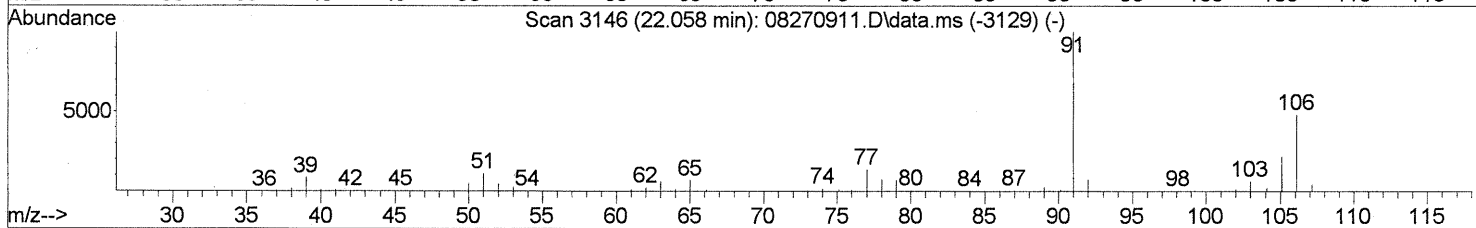
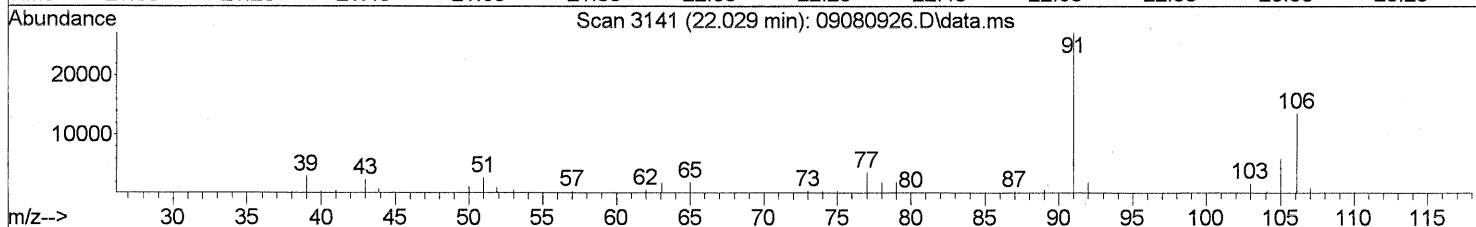
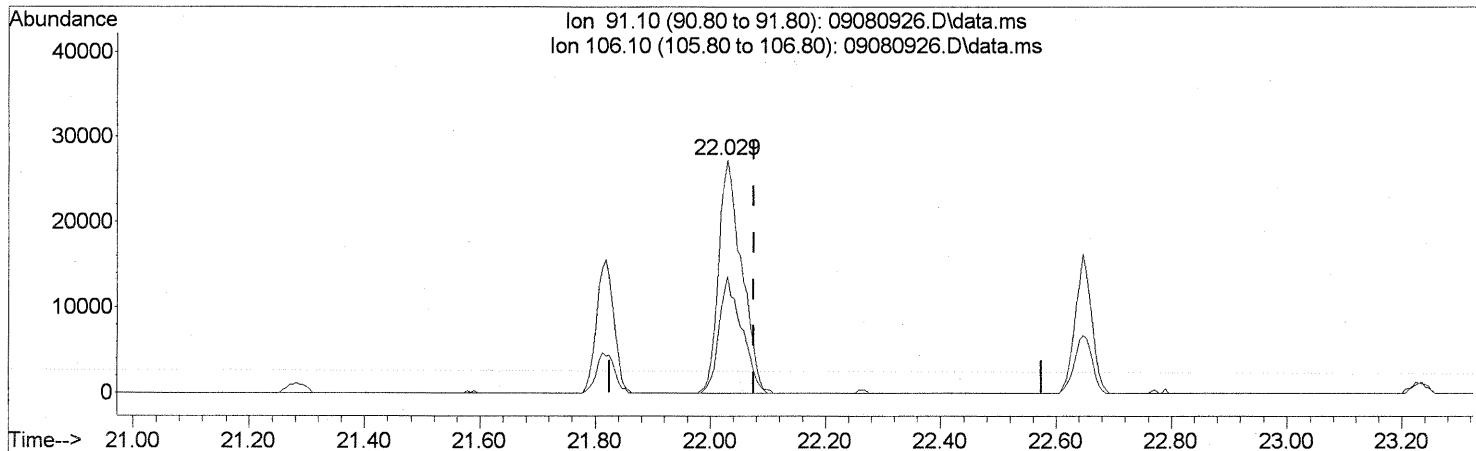
(63) n-Octane (T)
 20.264min (-0.023) 0.57ng
 response 8180

Ion	Exp%	Act%
57.10	100	100
85.10	113.70	115.87
71.00	69.10	70.49
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

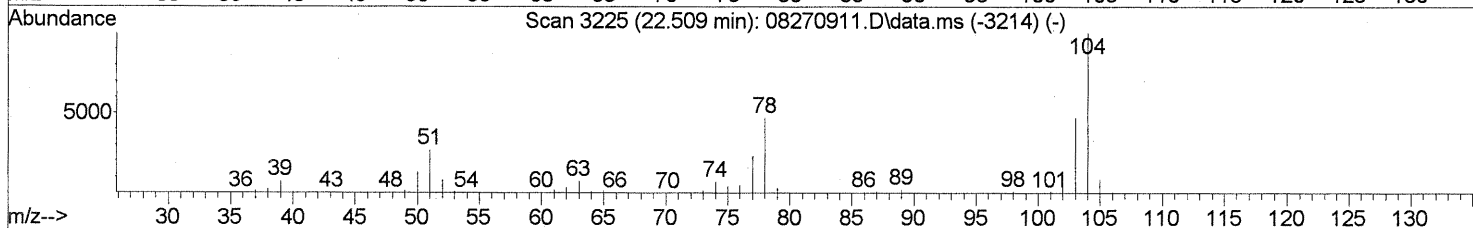
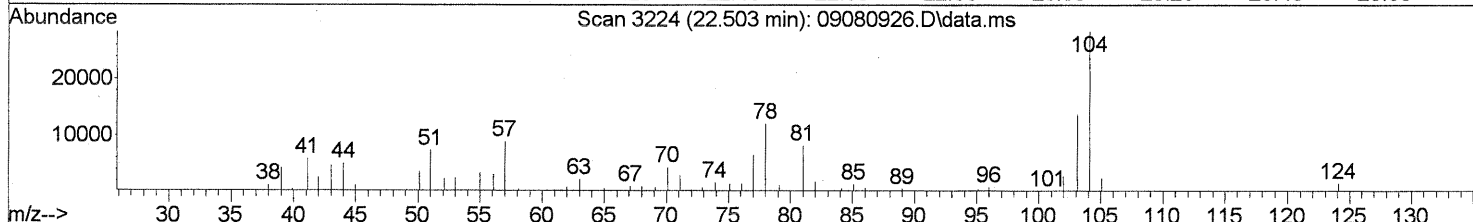
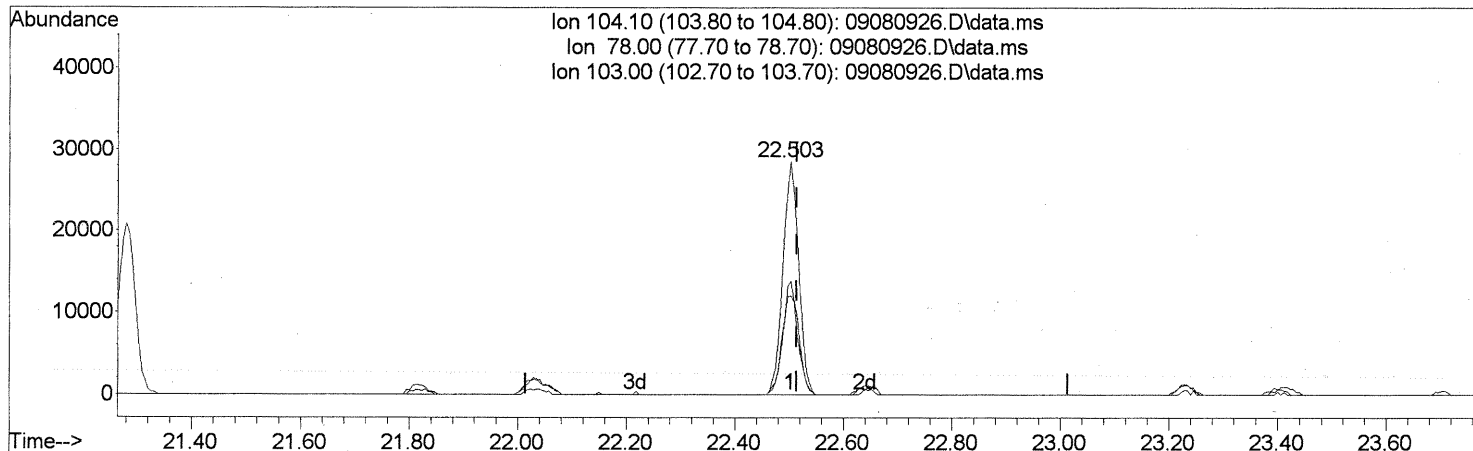
(67) m- & p-Xylenes (T)
 22.029min (-0.046) 1.35ng
 response 76177

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	49.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
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Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



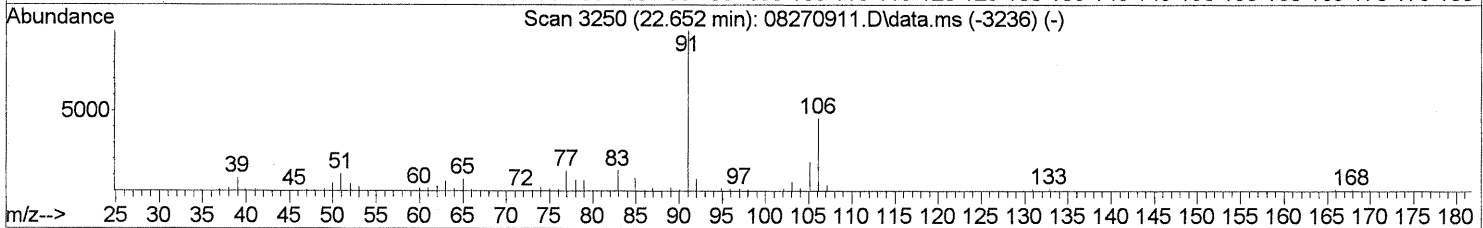
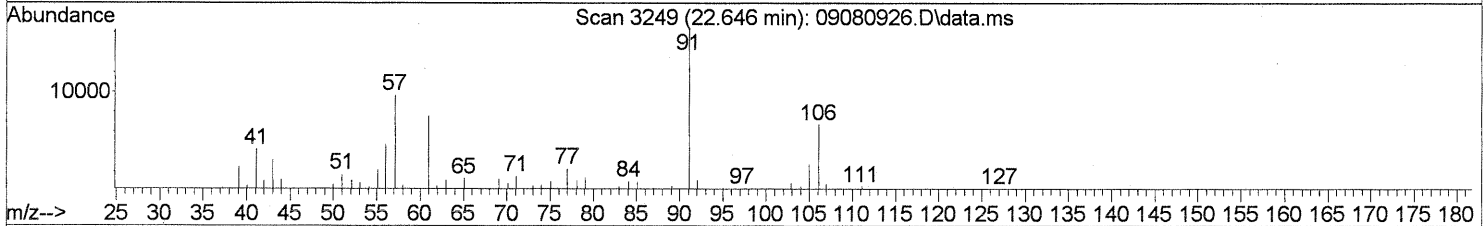
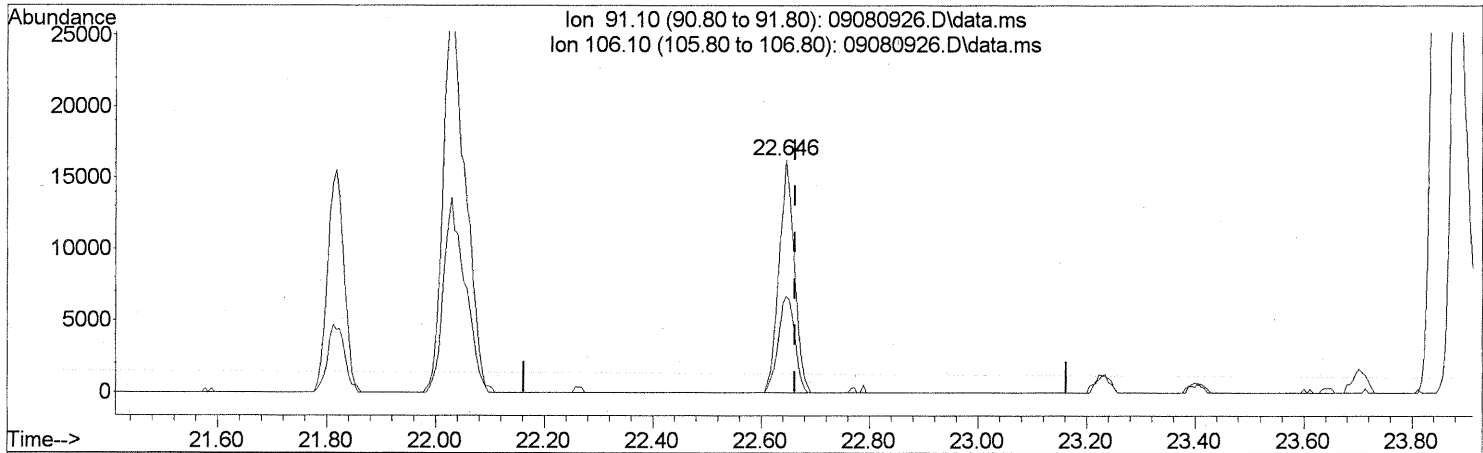
TIC: 09080926.D\data.ms

(69) Styrene (T)		
22.503min (-0.011) 1.37ng		
response 56904		
Ion	Exp%	Act%
104.10	100	100
78.00	47.20	44.87
103.00	47.00	47.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



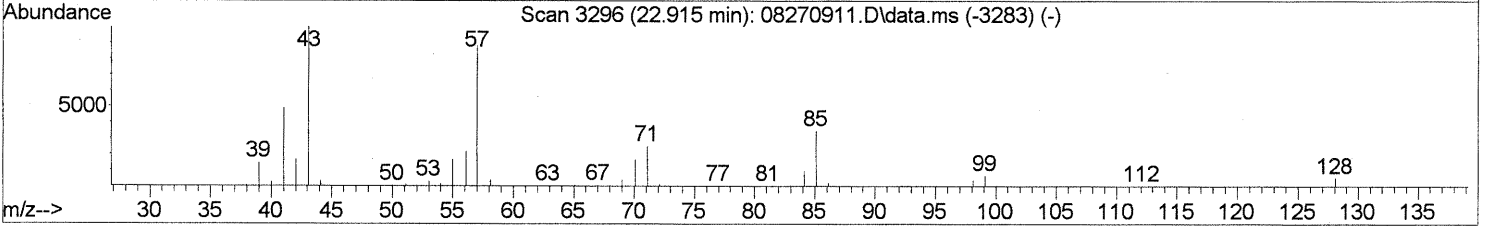
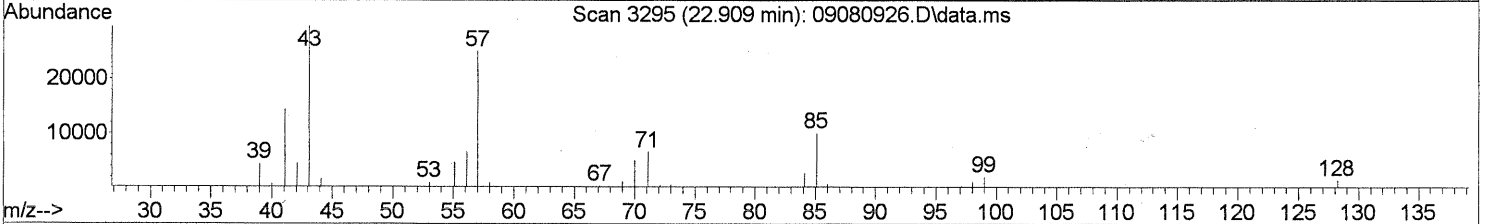
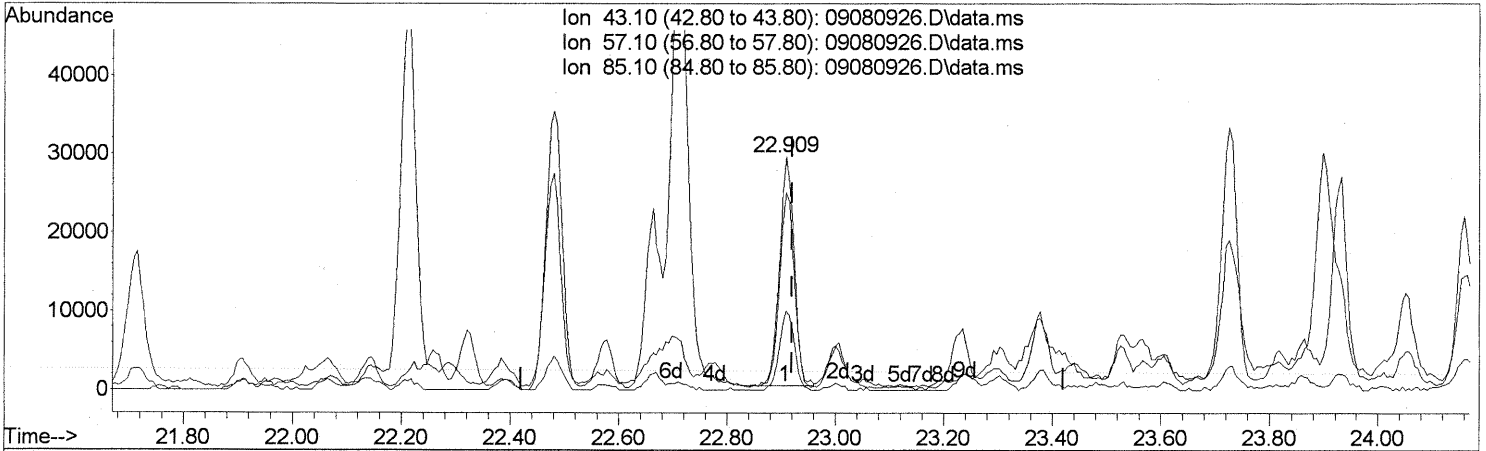
TIC: 09080926.D\data.ms

(70) o-Xylene (T)		
22.646min (-0.017)	0.56ng	
response	31862	
Ion	Exp%	Act%
91.10	100	100
106.10	44.90	44.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

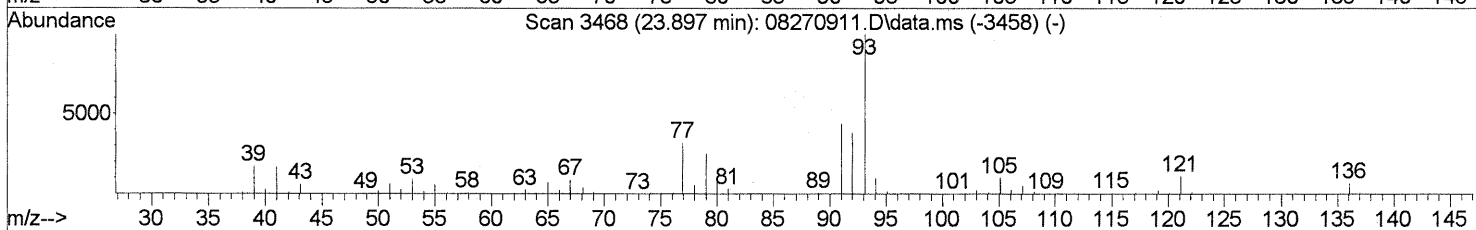
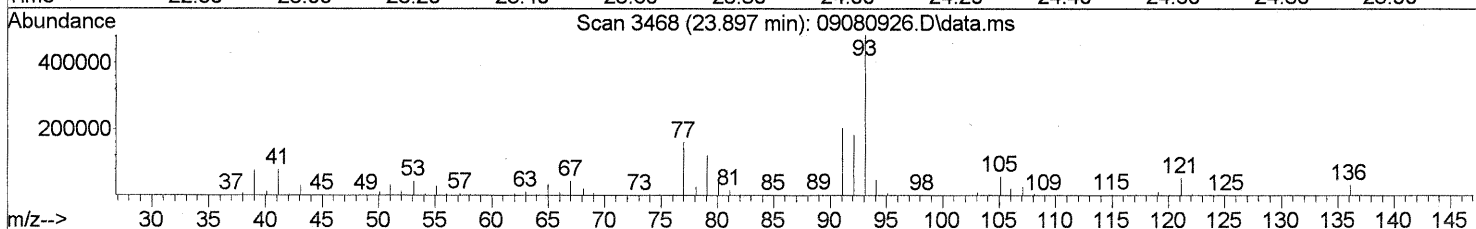
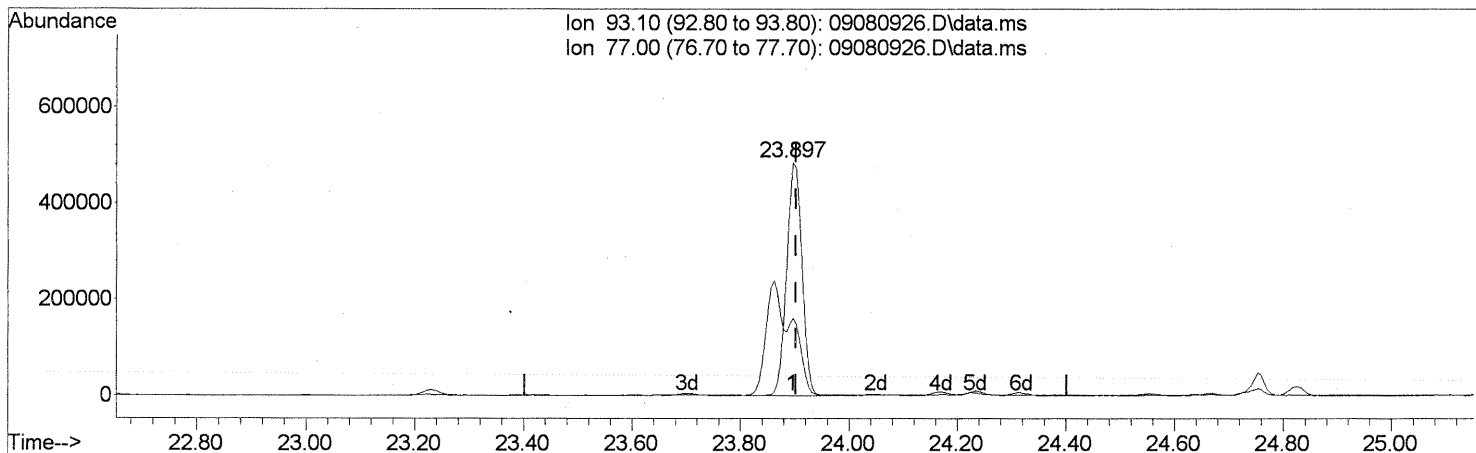
Ion	Exp%	Act%
43.10	100	100
57.10	85.90	86.20
85.10	32.20	35.30
0.00	0.00	0.00

(71) n-Nonane (T)
 22.909min (-0.011) 1.61ng
 response 54845

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

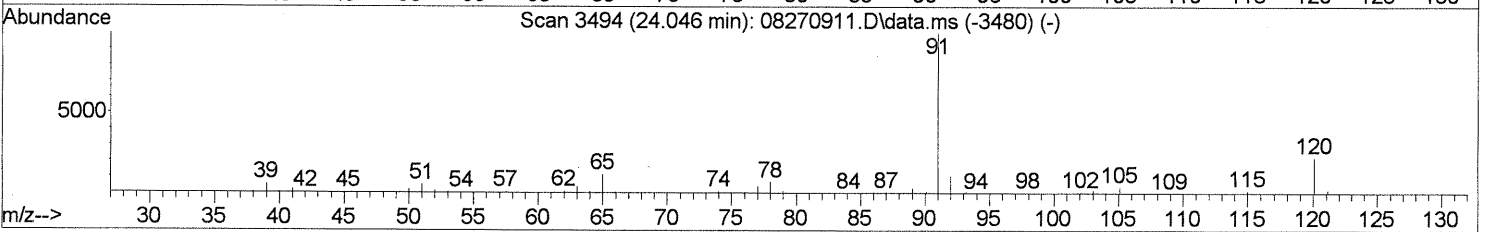
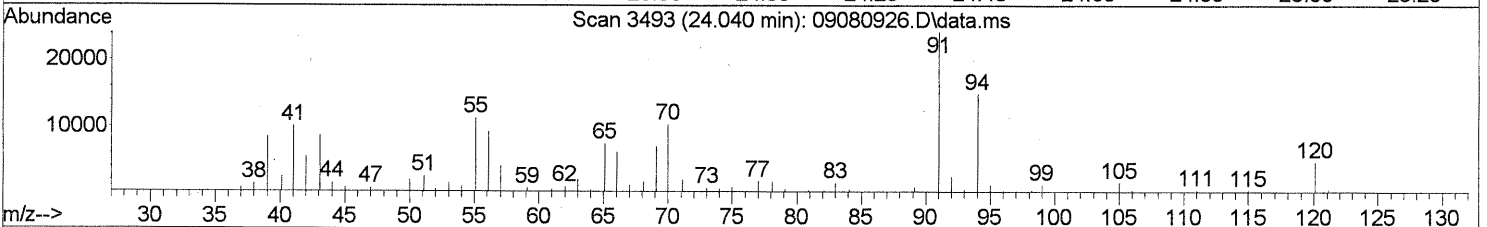
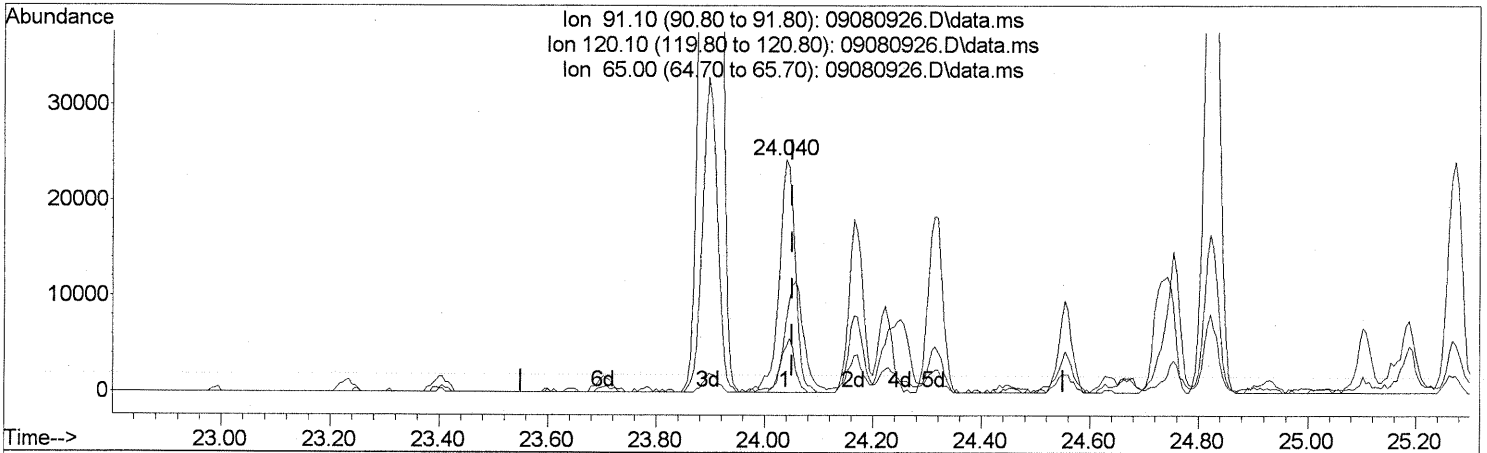
(75) alpha-Pinene (T)
 23.897min (-0.006) 25.12ng
 response 937562

Ion	Exp%	Act%
93.10	100	100
77.00	33.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

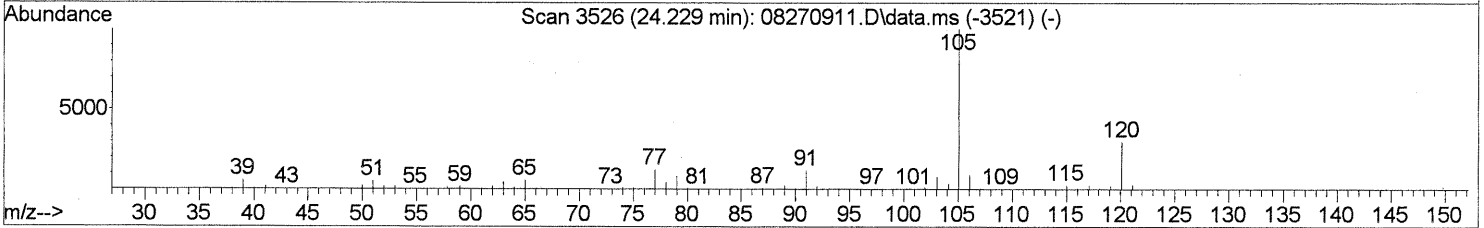
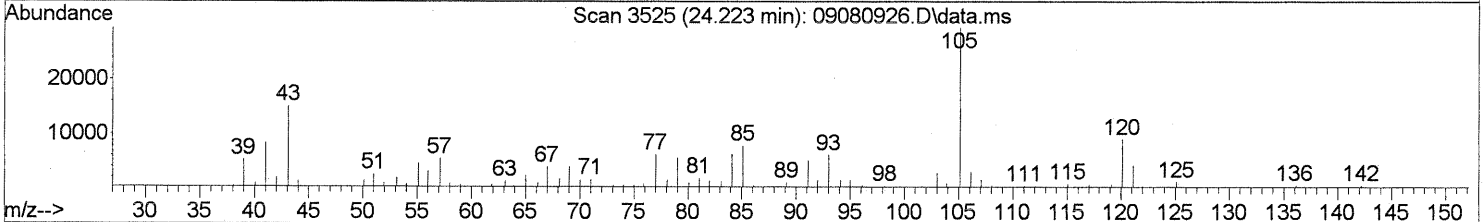
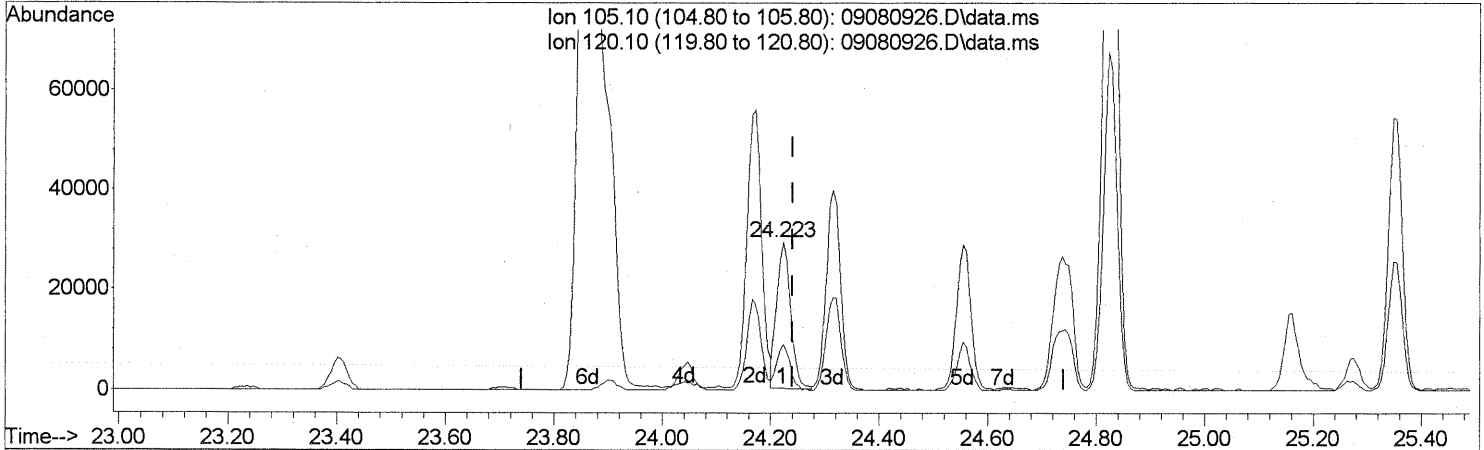
(76) n-Propylbenzene (T)
 24.040min (-0.011) 0.55ng
 response 49835

Ion	Exp%	Act%
91.10	100	100
120.10	21.80	19.84
65.00	11.80	56.49#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

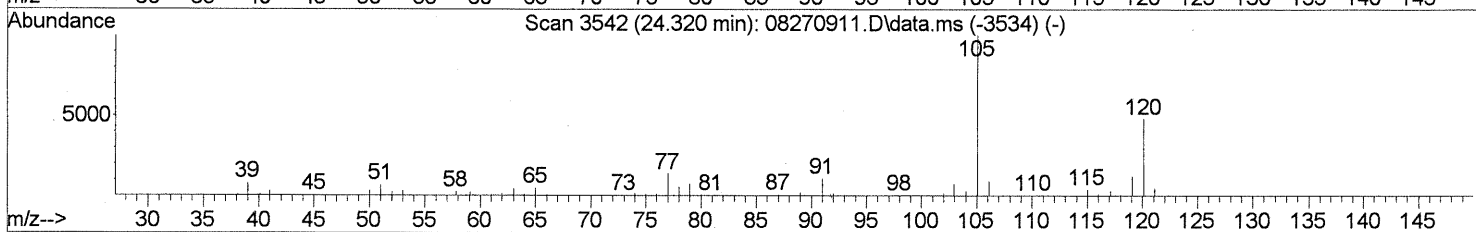
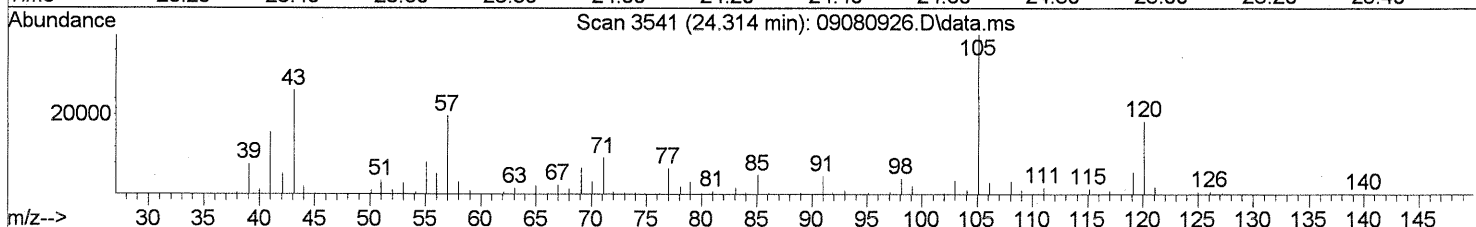
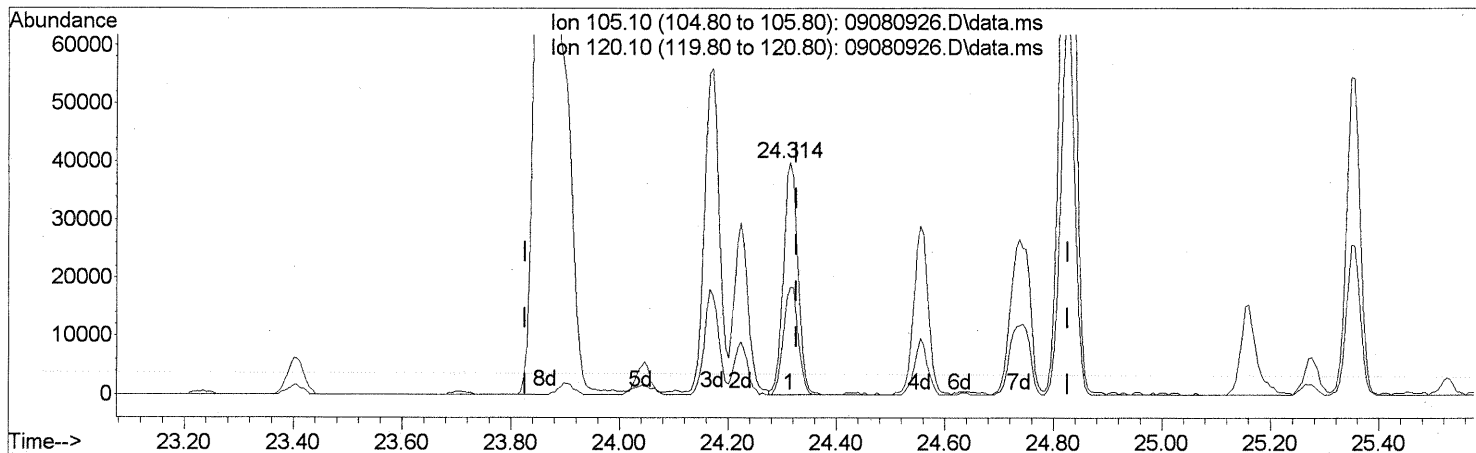
(78) 4-Ethyltoluene (T)
 24.223min (-0.017) 0.75ng
 response 50844

Ion	Exp%	Act%
105.10	100	100
120.10	28.70	29.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

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

24.314min (-0.011) 1.30ng

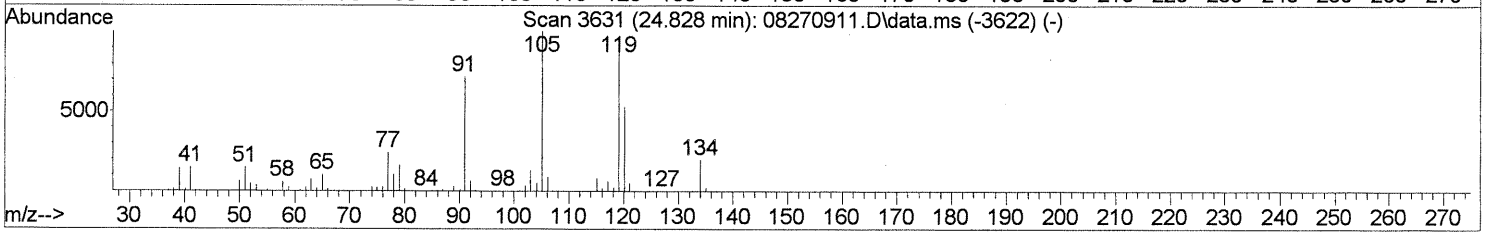
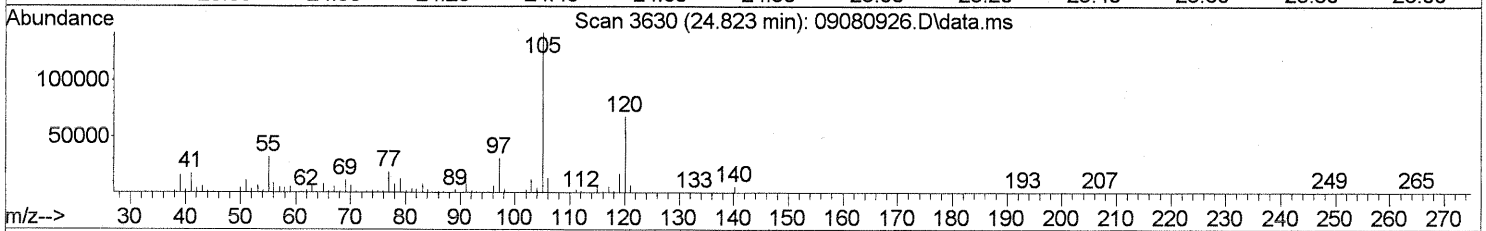
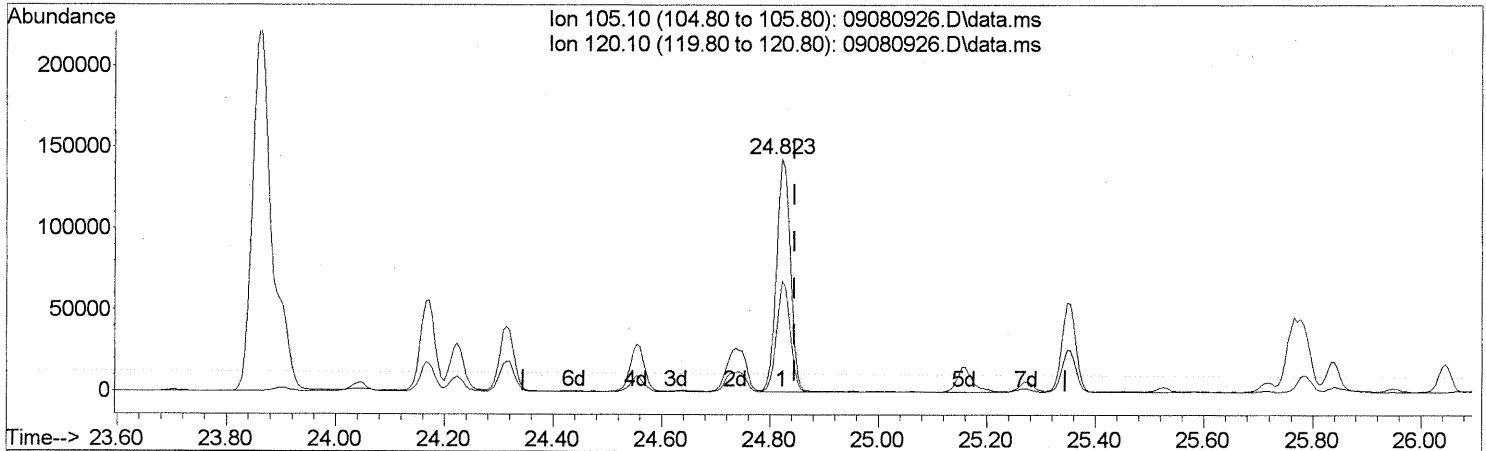
response 73547

Ion	Exp%	Act%
105.10	100	100
120.10	47.70	47.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

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

24.823min (-0.023) 4.40ng

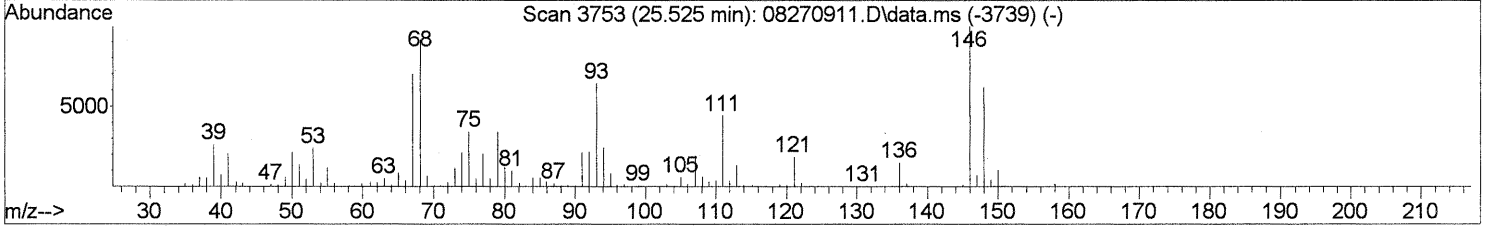
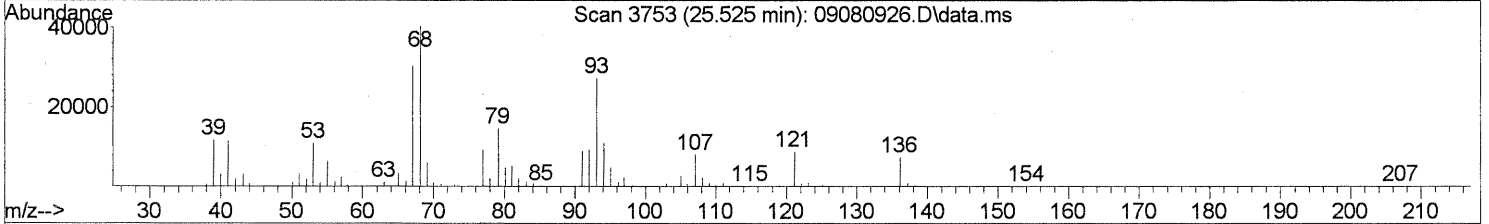
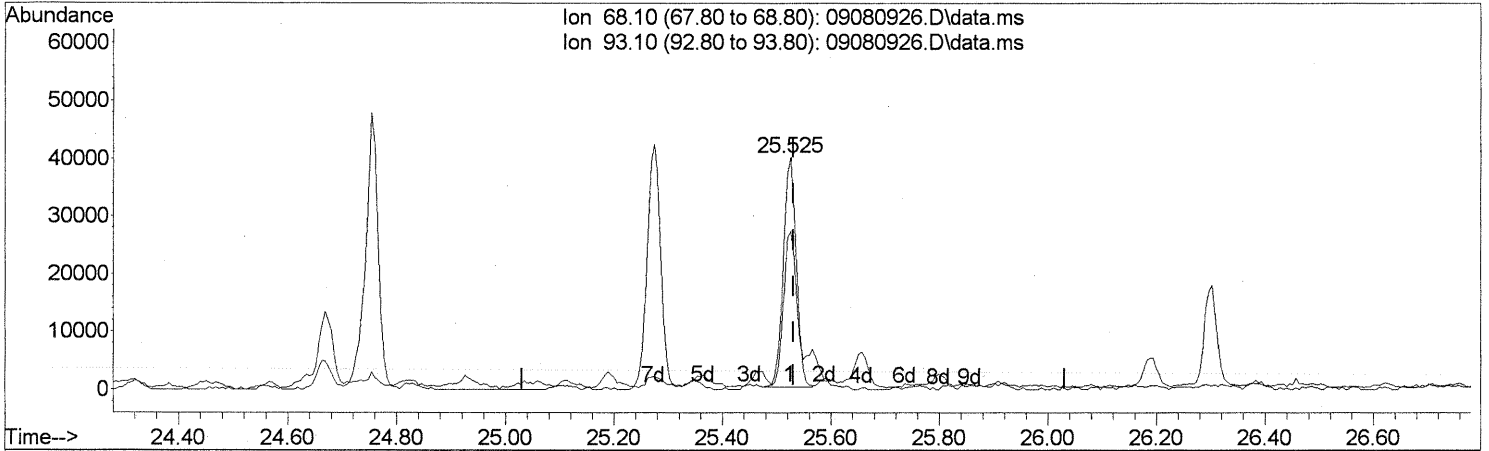
response 254089

Ion	Exp%	Act%
105.10	100	100
120.10	52.00	46.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



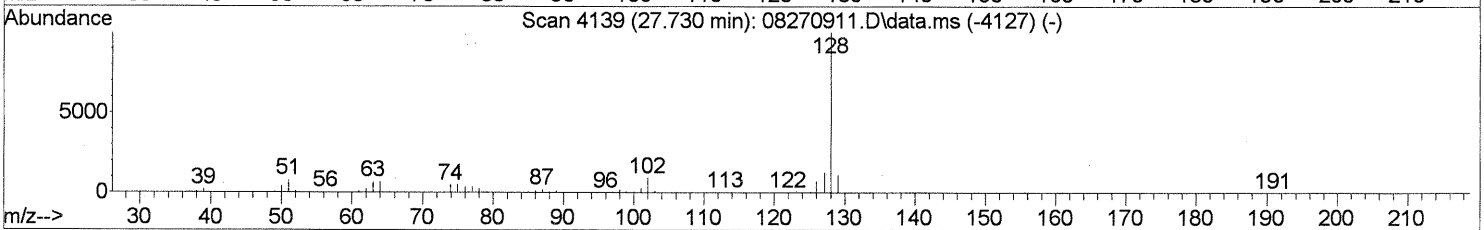
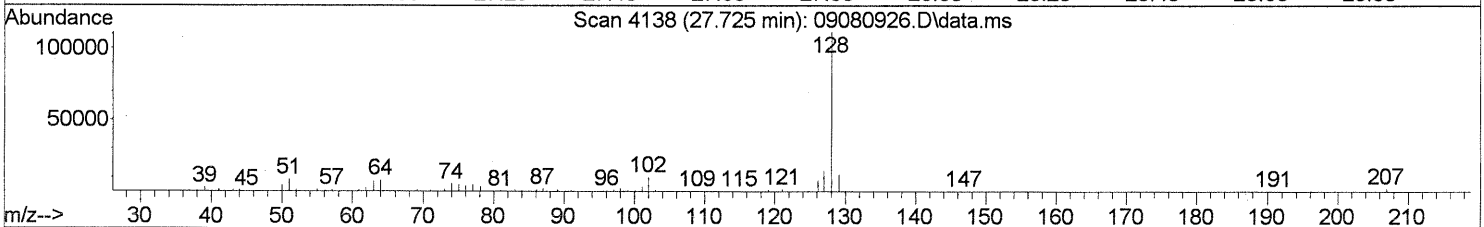
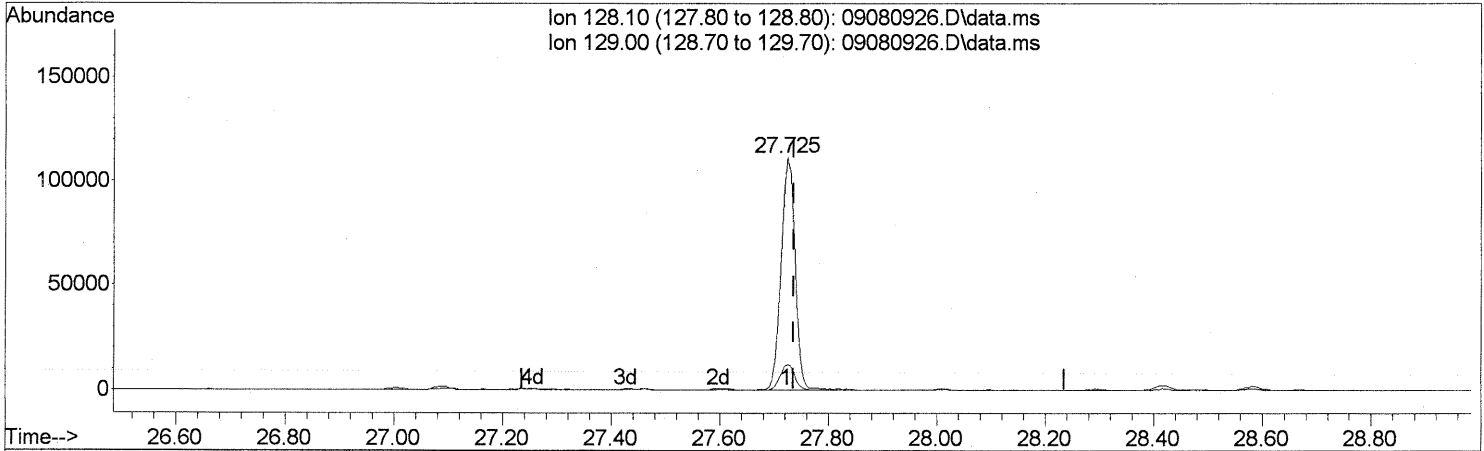
TIC: 09080926.D\data.ms

(91) d-Limonene (T)		
25.525min (-0.006) 2.84ng		
response 65457		
Ion	Exp%	Act%
68.10	100	100
93.10	69.80	91.35#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080926.D
 Acq On : 9 Sep 2009 4:26
 Operator : LM/CC
 Sample : P0903081-004 (1000ml)
 Misc : EH&E 104767
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 09 10:14:01 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080926.D\data.ms

(95) Naphthalene (T)
 27.725min (-0.011) 2.47ng
 response 196751

Ion	Exp%	Act%
128.10	100	100
129.00	10.90	11.13
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104768
Client Project ID: 16512
 Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01600

CAS Project ID: P0903081
 CAS Sample ID: P0903081-005

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.21

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		µg/m ³	µg/m ³	ppbV	ppbV	
115-07-1	Propene	ND	0.61	ND	0.35	
75-71-8	Dichlorodifluoromethane (CFC 12)	2.9	0.61	0.59	0.12	
74-87-3	Chloromethane	0.47	0.12	0.23	0.059	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.61	ND	0.087	
75-01-4	Vinyl Chloride	ND	0.12	ND	0.047	
106-99-0	1,3-Butadiene	ND	0.12	ND	0.055	
74-83-9	Bromomethane	ND	0.12	ND	0.031	
75-00-3	Chloroethane	ND	0.12	ND	0.046	
64-17-5	Ethanol	6.9	6.1	3.6	3.2	
75-05-8	Acetonitrile	4.3	0.61	2.6	0.36	
107-02-8	Acrolein	0.61	0.61	0.26	0.26	
67-64-1	Acetone	8.8	6.1	3.7	2.5	
75-69-4	Trichlorofluoromethane	1.4	0.12	0.25	0.022	
67-63-0	2-Propanol (Isopropyl Alcohol)	0.67	0.61	0.27	0.25	
107-13-1	Acrylonitrile	ND	0.61	ND	0.28	
75-35-4	1,1-Dichloroethene	ND	0.12	ND	0.031	
75-09-2	Methylene Chloride	ND	0.61	ND	0.17	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.12	ND	0.039	
76-13-1	Trichlorotrifluoroethane	0.70	0.12	0.092	0.016	
75-15-0	Carbon Disulfide	ND	0.61	ND	0.19	
156-60-5	trans-1,2-Dichloroethene	ND	0.12	ND	0.031	
75-34-3	1,1-Dichloroethane	ND	0.12	ND	0.030	
1634-04-4	Methyl tert-Butyl Ether	ND	0.12	ND	0.034	
108-05-4	Vinyl Acetate	ND	6.1	ND	1.7	
78-93-3	2-Butanone (MEK)	0.88	0.61	0.30	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.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

Client: Environmental Health & Engineering, Inc.
Client Sample ID: 104768
Client Project ID: 16512

Test Code: EPA TO-15
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
 Analyst: Liliana Marghitoiu
 Sampling Media: 6.0 L Summa Canister
 Test Notes:
 Container ID: AC01600

CAS Project ID: P0903081
 CAS Sample ID: P0903081-005

Date Collected: 9/1/09
 Date Received: 9/2/09
 Date Analyzed: 9/9/09
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.21

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
111-65-9	n-Octane	ND	0.61	ND	0.13	
127-18-4	Tetrachloroethene	ND	0.12	ND	0.018	
108-90-7	Chlorobenzene	ND	0.12	ND	0.026	
100-41-4	Ethylbenzene	ND	0.61	ND	0.14	
179601-23-1	m,p-Xylenes	0.79	0.61	0.18	0.14	
75-25-2	Bromoform	ND	0.61	ND	0.059	
100-42-5	Styrene	ND	0.61	ND	0.14	
95-47-6	o-Xylene	ND	0.61	ND	0.14	
111-84-2	n-Nonane	ND	0.61	ND	0.12	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.12	ND	0.018	
98-82-8	Cumene	ND	0.61	ND	0.12	
80-56-8	alpha-Pinene	1.1	0.61	0.19	0.11	
103-65-1	n-Propylbenzene	ND	0.61	ND	0.12	
622-96-8	4-Ethyltoluene	ND	0.61	ND	0.12	
108-67-8	1,3,5-Trimethylbenzene	ND	0.61	ND	0.12	
95-63-6	1,2,4-Trimethylbenzene	ND	0.61	ND	0.12	
100-44-7	Benzyl Chloride	ND	0.12	ND	0.023	
541-73-1	1,3-Dichlorobenzene	ND	0.12	ND	0.020	
106-46-7	1,4-Dichlorobenzene	ND	0.12	ND	0.020	
95-50-1	1,2-Dichlorobenzene	ND	0.12	ND	0.020	
5989-27-5	d-Limonene	ND	0.61	ND	0.11	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.61	ND	0.063	
120-82-1	1,2,4-Trichlorobenzene	ND	0.61	ND	0.082	
91-20-3	Naphthalene	ND	0.61	ND	0.12	
87-68-3	Hexachlorobutadiene	ND	0.61	ND	0.057	

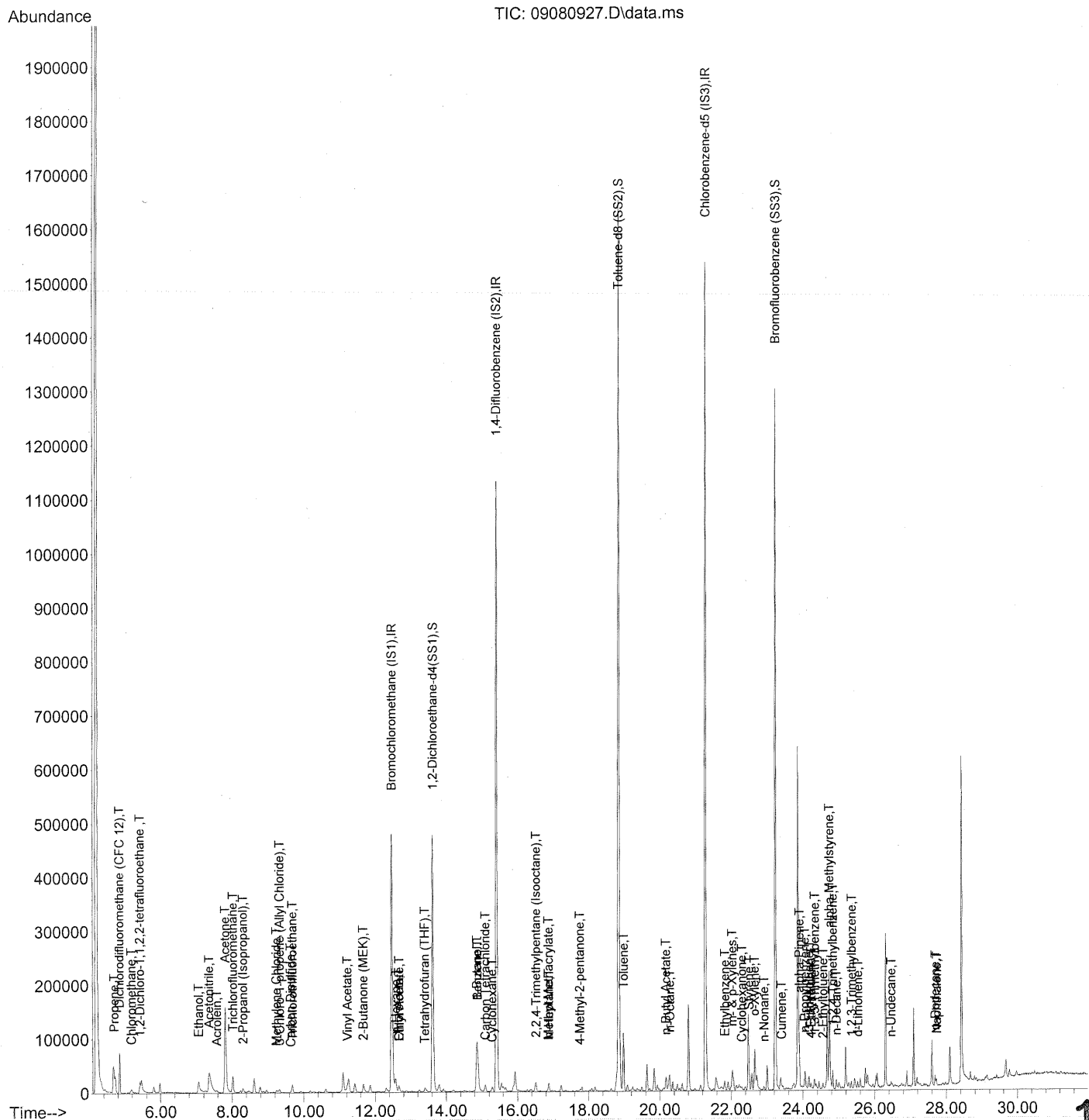
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: Ro Date: 9/16/09 **184**

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08 am
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 10:38:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08 am
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 10:38:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/15/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.46	130	257178	25.000	ng	-0.04
37) 1,4-Difluorobenzene (IS2)	15.41	114	1295673	25.000	ng	-0.03
56) Chlorobenzene-d5 (IS3)	21.28	82	637062	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.61	65	488522	23.970	ng	-0.03
Spiked Amount	25.000		Recovery	=	95.88%	
57) Toluene-d8 (SS2)	18.84	98	1409455	24.756	ng	-0.02
Spiked Amount	25.000		Recovery	=	99.04%	
73) Bromofluorobenzene (SS3)	23.23	174	427016	26.060	ng	-0.01
Spiked Amount	25.000		Recovery	=	104.24%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.69	42	9071m	0.488	ng	
3) Dichlorodifluoromethan...	4.85	85	78543	2.412	ng	99
4) Chloromethane	5.18	50	8452	0.386	ng	92
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	1489	0.111	ng	69
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.91	54	90	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.06	45	65509m	5.679	ng	
11) Acetonitrile	7.35	41	114337	3.568	ng	100
12) Acrolein	7.57	56	4413	0.501	ng	92
13) Acetone	7.81	58	86557	7.256	ng	88
14) Trichlorofluoromethane	8.02	101	32879	1.145	ng	95
15) 2-Propanol (Isopropanol)	8.30	45	22076m	0.557	ng	
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.00	96	109	N.D.		
18) 2-Methyl-2-Propanol (t...	9.27	59	1569	N.D.		
19) Methylene Chloride	9.23	84	2322	0.153	ng	96
20) 3-Chloro-1-propene (Al...	9.32	41	1515	0.064	ng	# 41
21) Trichlorotrifluoroethane	9.68	151	6592	0.580	ng	88
22) Carbon Disulfide	9.63	76	3801	0.071	ng	# 74
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.09	73	96	N.D.		
26) Vinyl Acetate	11.22	86	1994	0.667	ng	# 1
27) 2-Butanone (MEK)	11.66	72	7024	0.729	ng	99
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	12.67	61	1566	0.302	ng	94
31) n-Hexane	12.58	57	12814	0.497	ng	95

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08 am
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 15 10:38:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.67	83	3247	0.128 ng		94
34) Tetrahydrofuran (THF)	13.39	72	2350	0.225 ng		91
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.76	62	93	N.D.		
38) 1,1,1-Trichloroethane	14.16	97	1050	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.85	56	94143	5.838 ng	#	38
41) Benzene	14.87	78	23009	0.378 ng		97
42) Carbon Tetrachloride	15.09	117	9858	0.482 ng		97
43) Cyclohexane	15.28	84	3902	0.174 ng		88
44) tert-Amyl Methyl Ether	15.95	73	88	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.37	83	190	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	16.52	57	20777	0.300 ng		88
50) Methyl Methacrylate	16.87	100	1072	0.190 ng	#	1
51) n-Heptane	16.87	71	4342	0.275 ng		98
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.74	58	751	0.054 ng	#	33
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	0.00	97	0	N.D. d		
58) Toluene	18.98	91	58094	0.947 ng		98
59) 2-Hexanone	19.40	43	1084	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.16	43	14668	0.341 ng		83
63) n-Octane	20.28	57	5537	0.392 ng		91
64) Tetrachloroethene	20.46	166	138	N.D.		
65) Chlorobenzene	21.36	112	87	N.D.		
66) Ethylbenzene	21.82	91	15039	0.214 ng		100
67) m- & p-Xylenes	22.02	91	36417	0.652 ng		100
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.50	104	3640	0.089 ng		91
70) o-Xylene	22.65	91	13224	0.236 ng		92
71) n-Nonane	22.91	43	3627	0.108 ng		93
72) 1,1,2,2-Tetrachloroethane	22.65	83	361	N.D.		
74) Cumene	23.40	105	4317	0.061 ng		92
75) alpha-Pinene	23.90	93	32754	0.888 ng	#	42
76) n-Propylbenzene	24.05	91	4526	0.050 ng	#	1
77) 3-Ethyltoluene	24.17	105	11457	0.168 ng		97
78) 4-Ethyltoluene	24.22	105	5429	0.081 ng		82
79) 1,3,5-Trimethylbenzene	24.32	105	4904	0.088 ng		85

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
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 Operator : LM/CC
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Quant Time: Sep 15 10:38:26 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

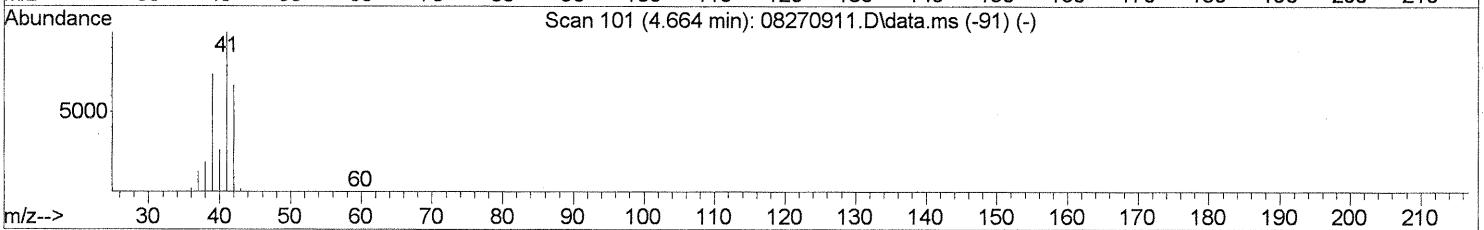
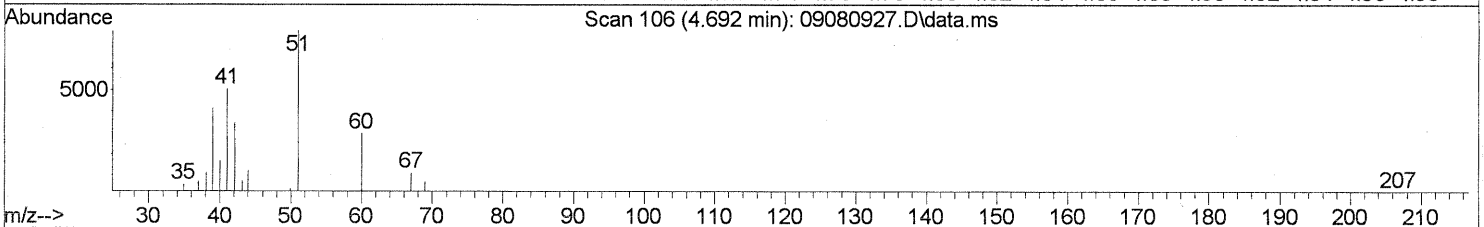
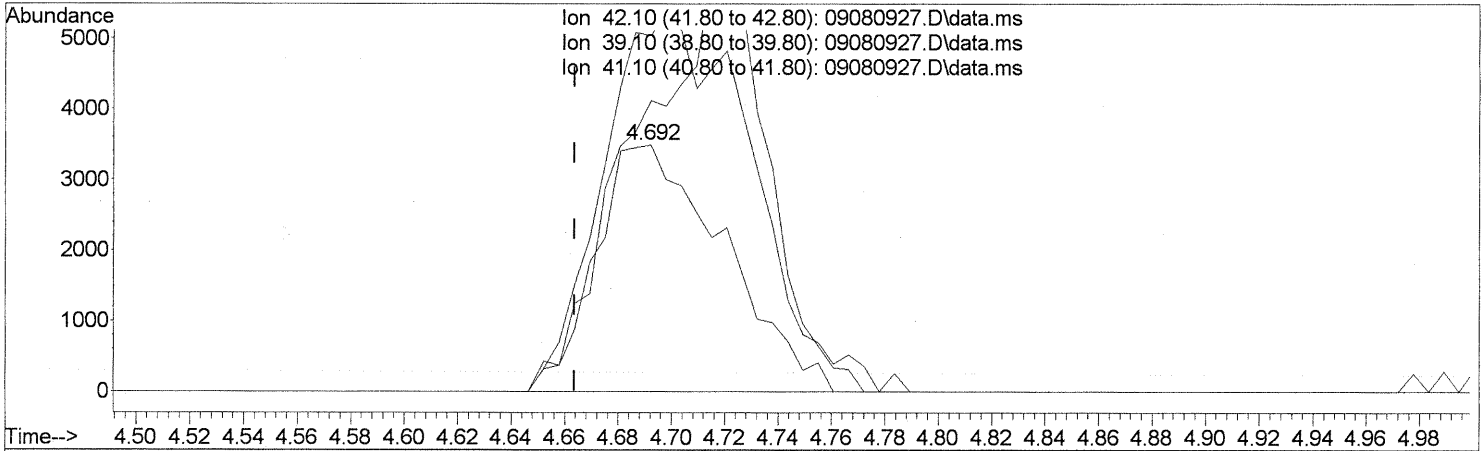
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.73	118	3513	0.120 ng	#	18
81) 2-Ethyltoluene	24.55	105	4450	0.064 ng		83
82) 1,2,4-Trimethylbenzene	24.82	105	14697	0.258 ng		87
83) n-Decane	24.93	57	8793	0.258 ng		90
84) Benzyl Chloride	25.00	91	618	N.D.	✓	
85) 1,3-Dichlorobenzene	25.10	146	1373	N.D.	✓	
86) 1,4-Dichlorobenzene	25.10	146	1373	N.D.	✓	
87) sec-Butylbenzene	25.19	105	743	N.D.		
88) 4-Isopropyltoluene (p-...	25.35	119	2018	N.D.		
89) 1,2,3-Trimethylbenzene	25.35	105	3941	0.066 ng		83
90) 1,2-Dichlorobenzene	25.10	146	1373	N.D.	✓	
91) d-Limonene	25.53	68	3264	0.143 ng		89
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.45	57	3795	0.107 ng		90
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.73	128	10873	0.138 ng		100
96) n-Dodecane	27.69	57	7573	0.188 ng		86
97) Hexachlorobutadiene	0.00	225	0	N.D.		
98) Cyclohexanone	22.29	55	4501	0.190 ng	#	85
99) tert-Butylbenzene	24.83	119	1723	N.D.		
100) n-Butylbenzene	25.86	91	2000	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 12 20:54:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(2) Propene (T) SH

4.692min (+0.028) 0.63ng

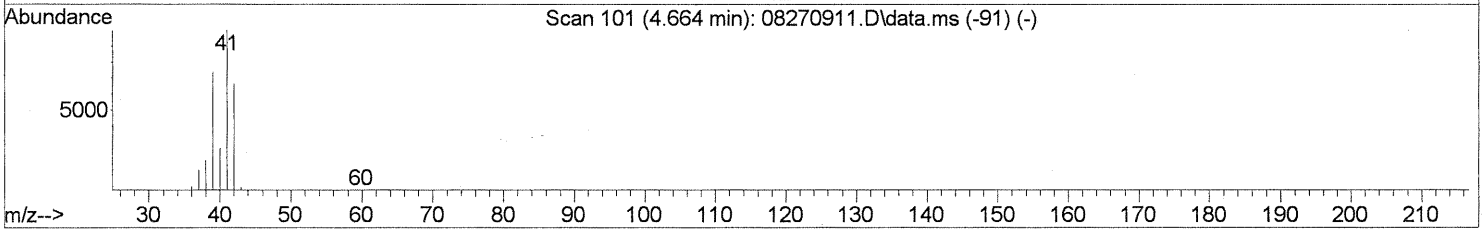
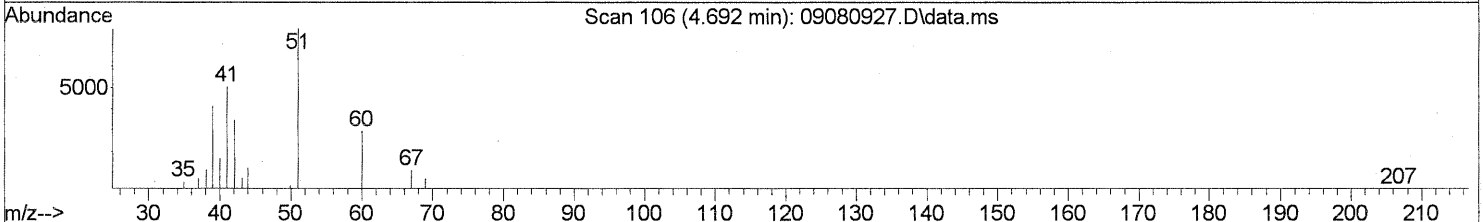
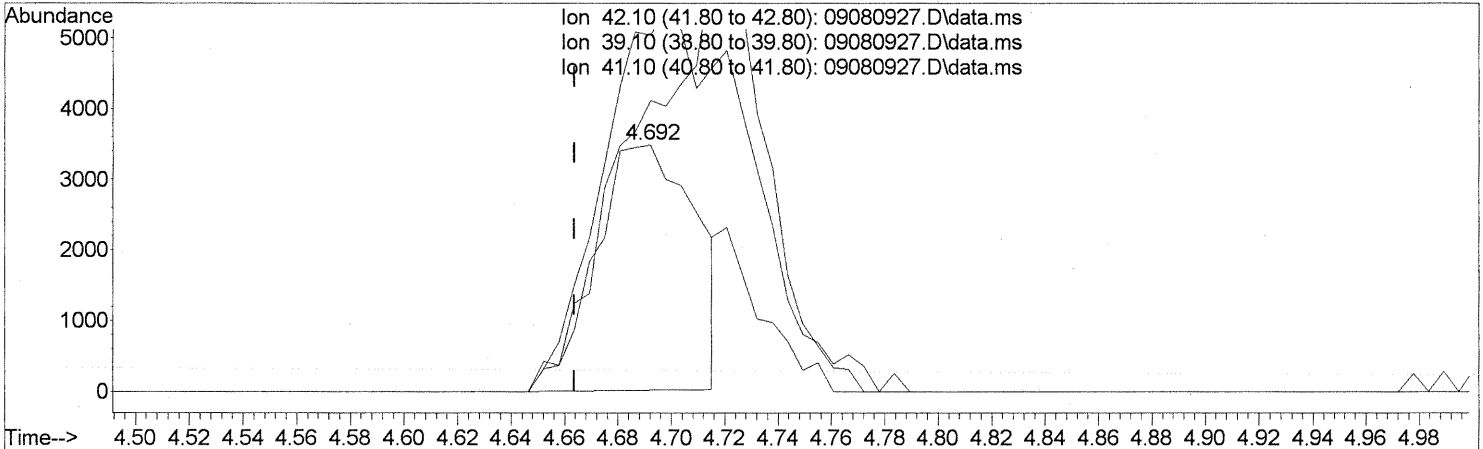
response 11671

Ion	Exp%	Act%
42.10	100	100
39.10	109.70	0.00#
41.10	149.80	176.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
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 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 12 20:54:52 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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TIC: 09080927.D\data.ms

(2) Propene (T)
 4.692min (+0.028) 0.49ng m
 response 9071

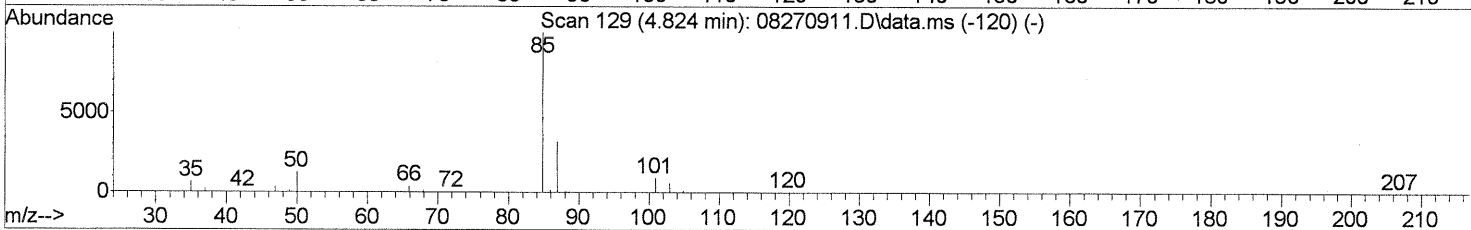
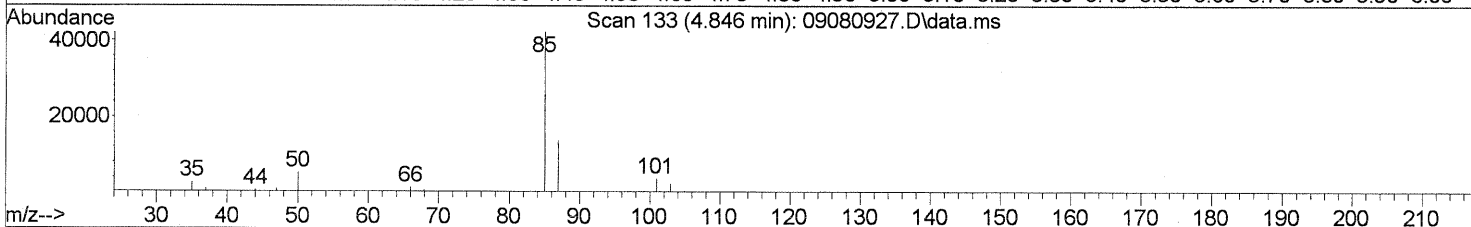
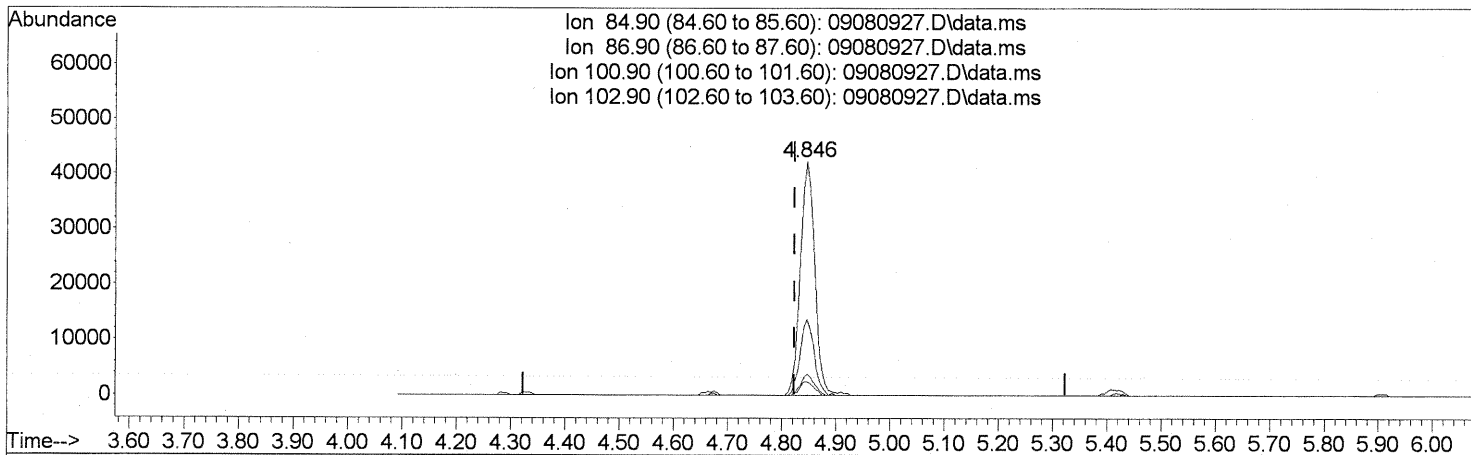
Ion	Exp%	Act%
42.10	100	100
39.10	109.70	0.00#
41.10	149.80	226.78#
0.00	0.00	0.00

CMRL *SH -> IC*
11/9/15/09
11/9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
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 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(3) Dichlorodifluoromethane (CFC 12) (T)

4.846min (+0.023) 2.41ng

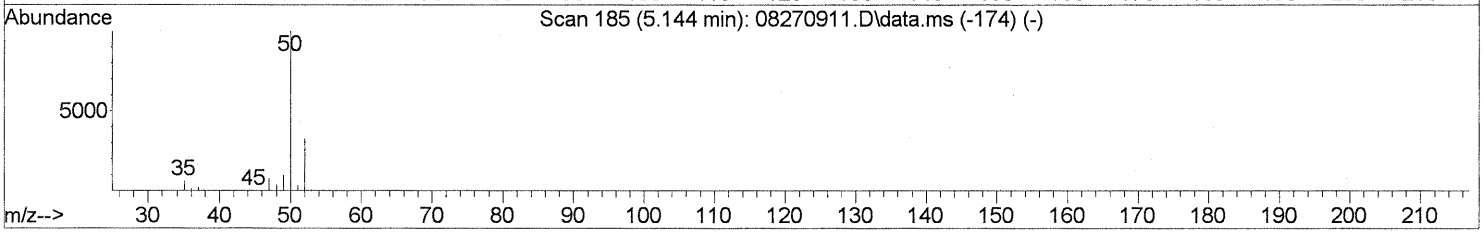
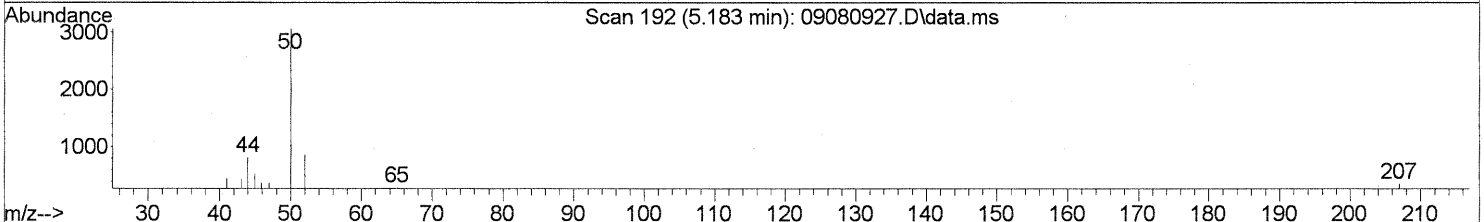
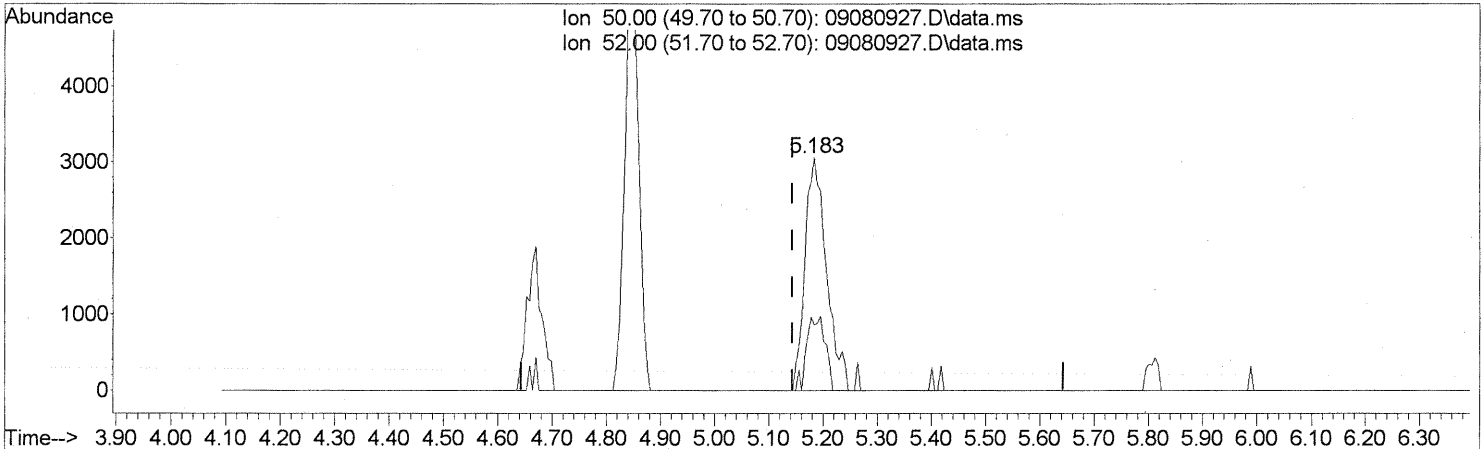
response 78543

lon	Exp%	Act%
84.90	100	100
86.90	32.00	31.58
100.90	8.80	8.26
102.90	5.60	5.44

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
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 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
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TIC: 09080927.D\data.ms

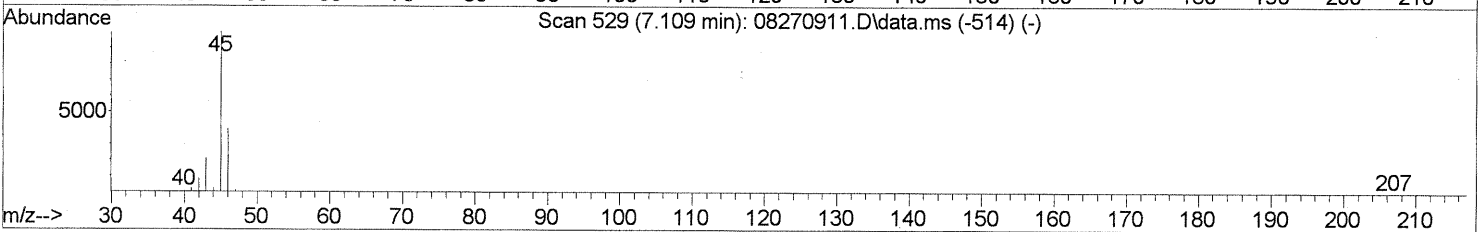
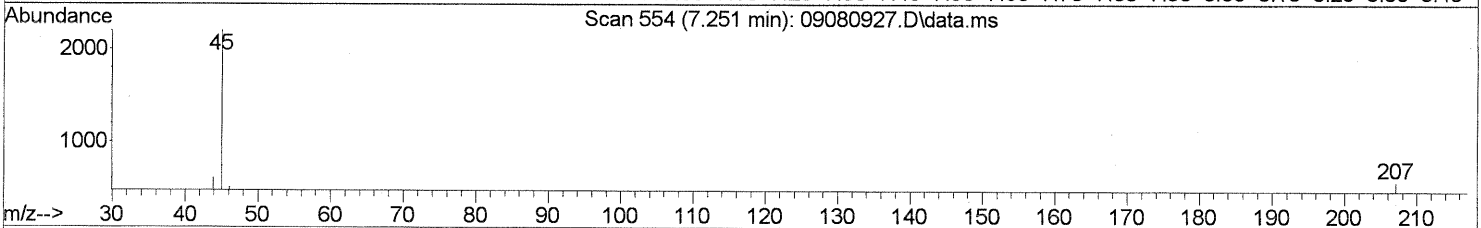
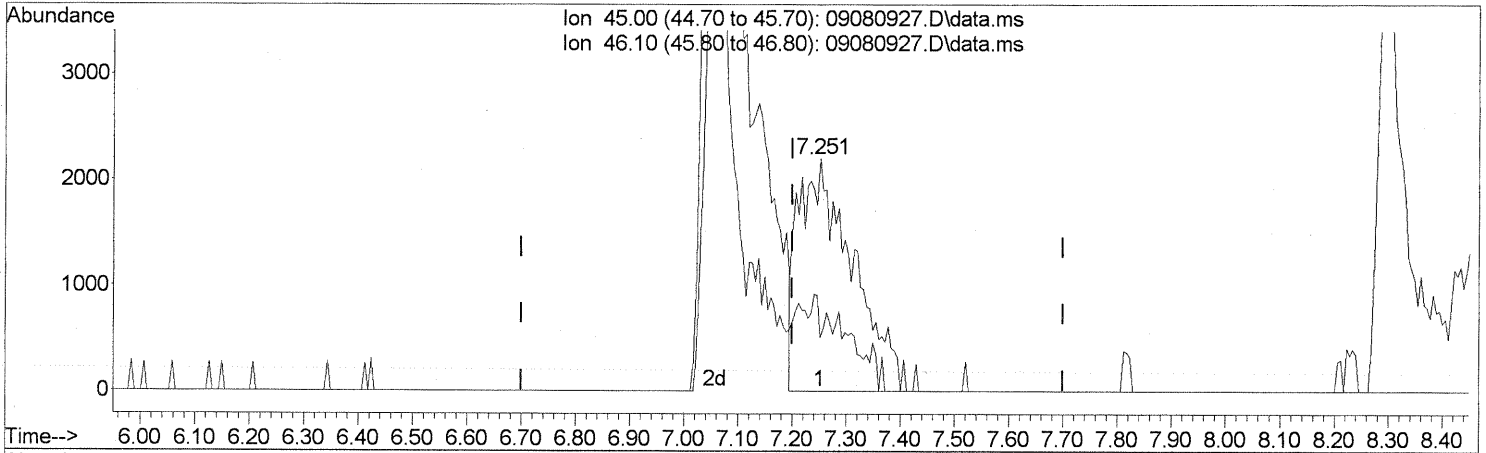
(4) Chloromethane (T)
 5.183min (+0.040) 0.39ng
 response 8452

Ion	Exp%	Act%
50.00	100	100
52.00	31.60	27.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(10) Ethanol (T)
 7.251min (+0.051) 1.33ng
 response 15365

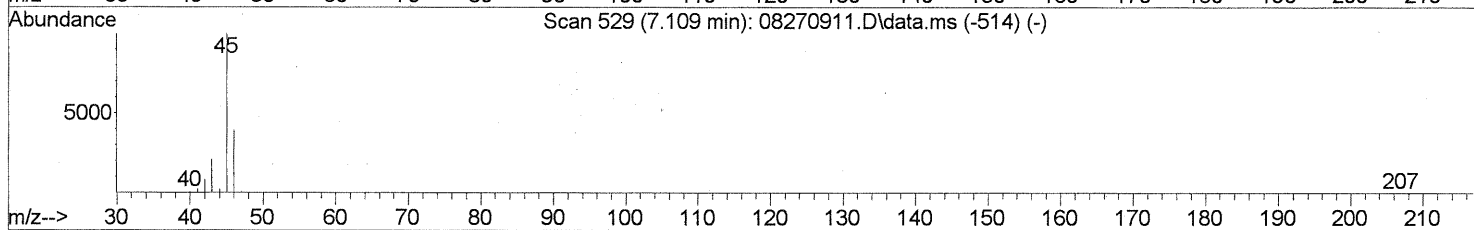
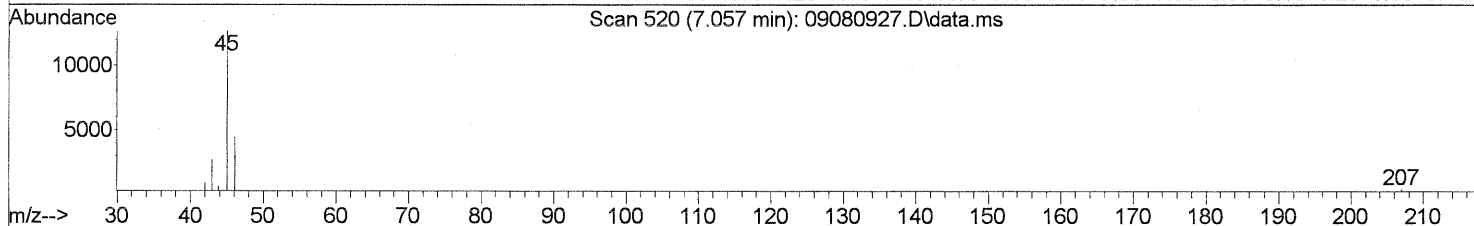
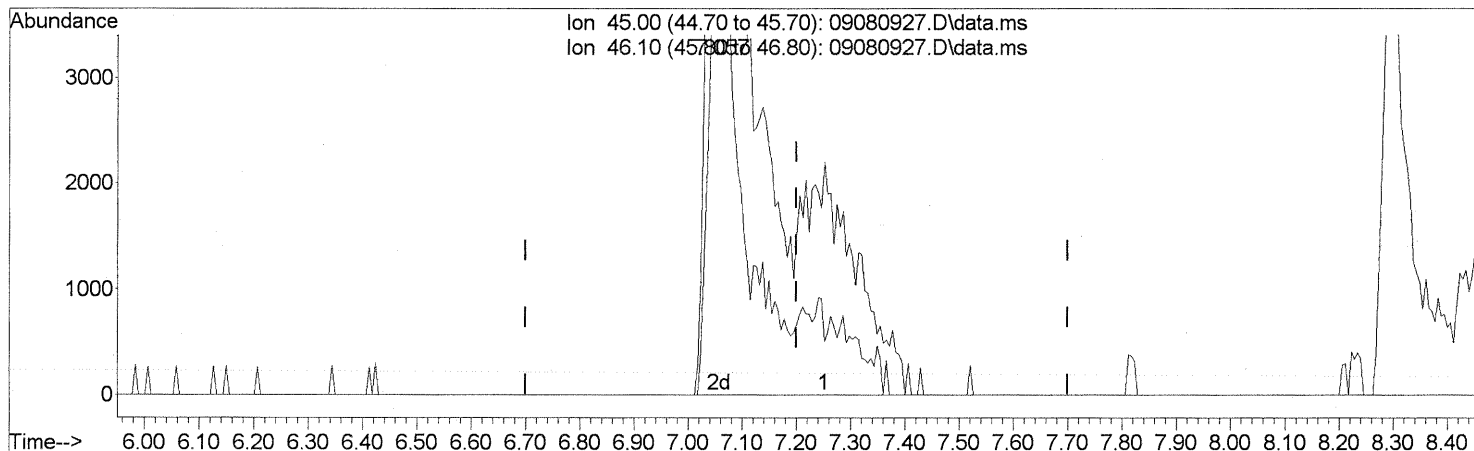
Ion	Exp%	Act%
45.00	100	100
46.10	38.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(10) Ethanol (T)
 7.057min (-0.143) 5.68ng m
 response 65509

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SP -> TIC

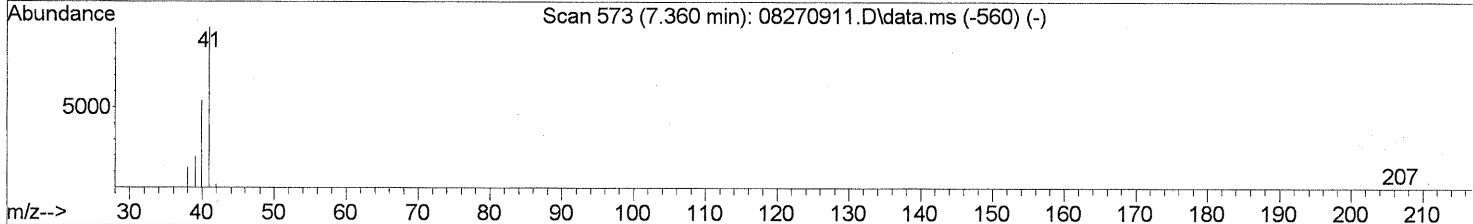
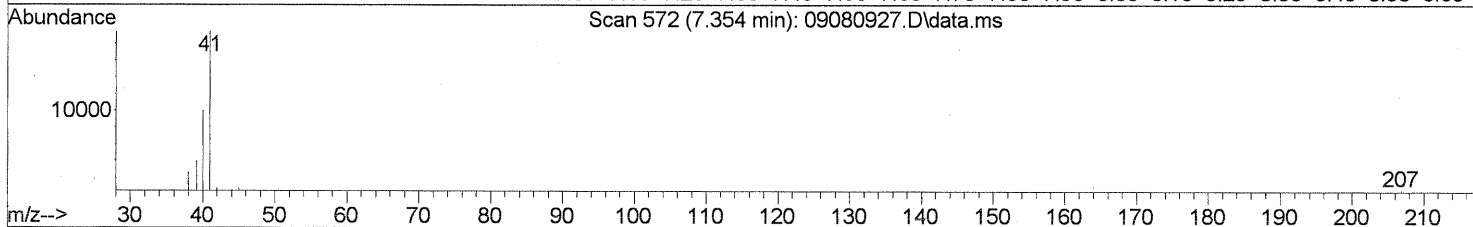
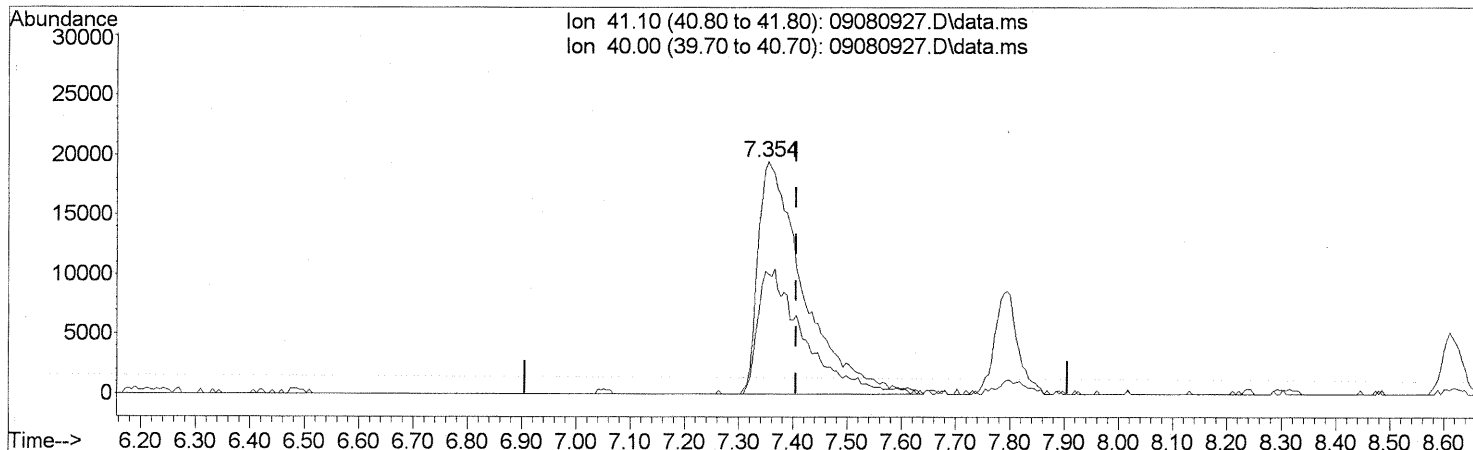
LM 9/14/09

LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

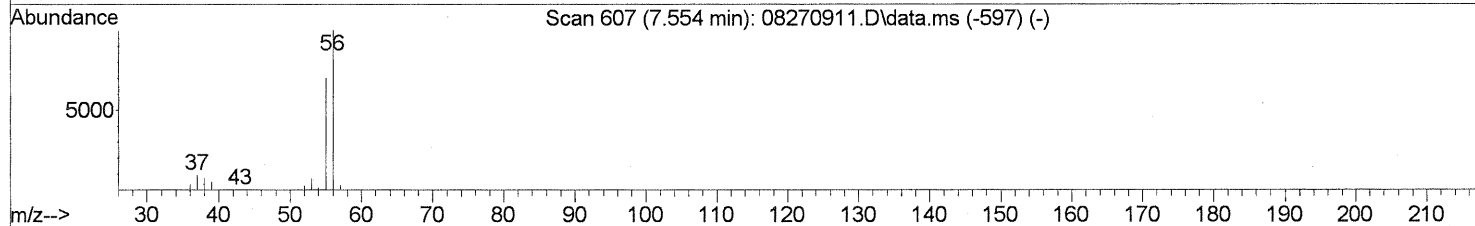
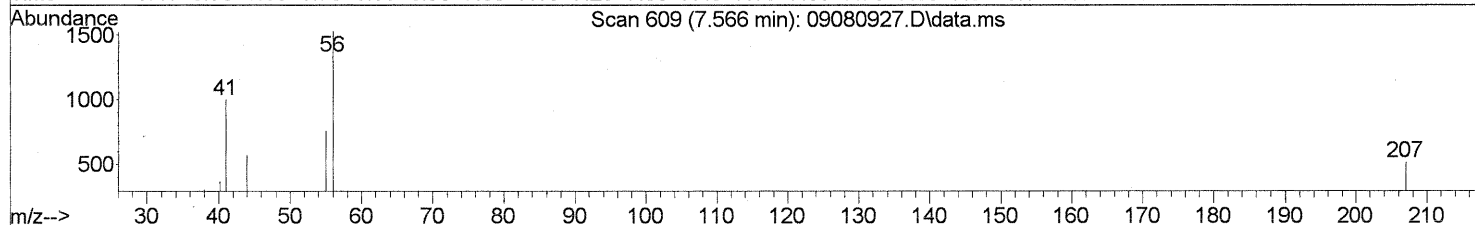
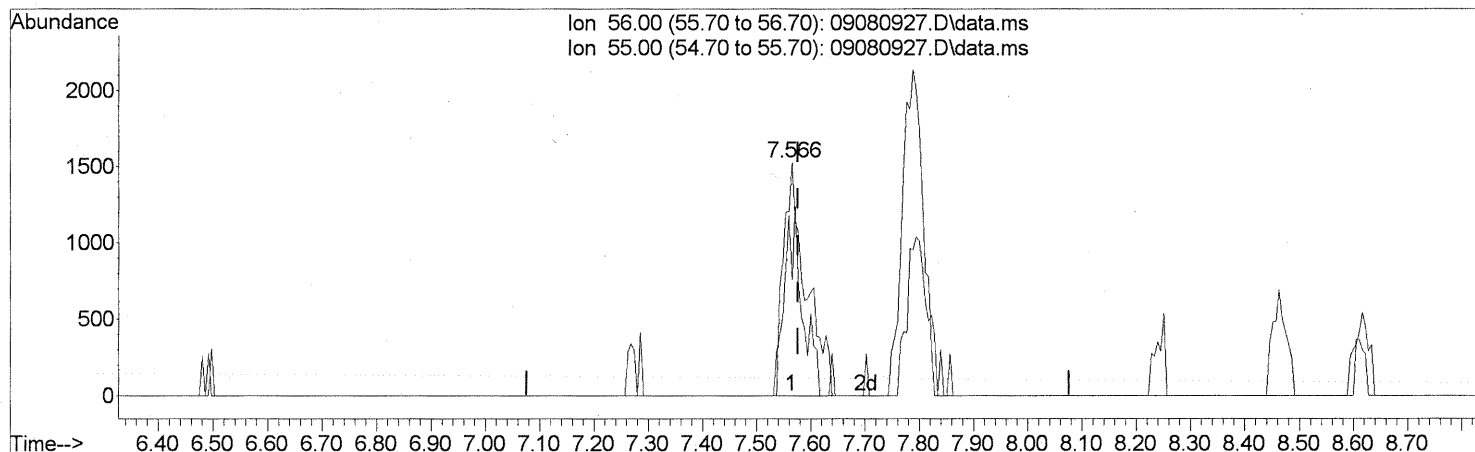
(11) Acetonitrile (T)
 7.354min (-0.052) 3.57ng
 response 114337

Ion	Exp%	Act%
41.10	100	100
40.00	53.70	54.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
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 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
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 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

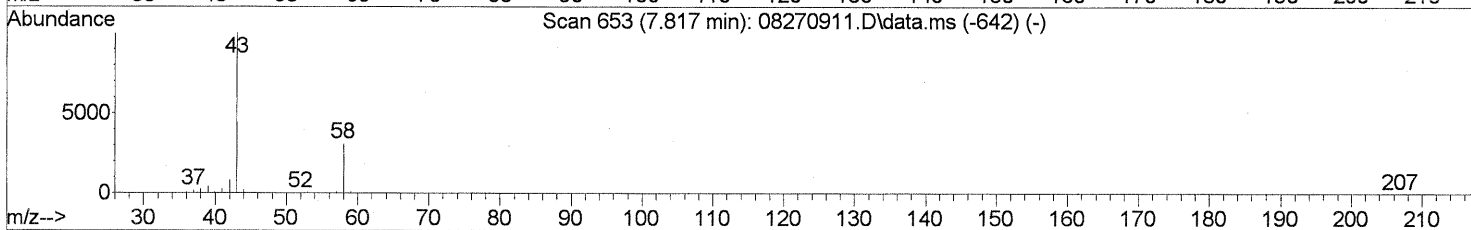
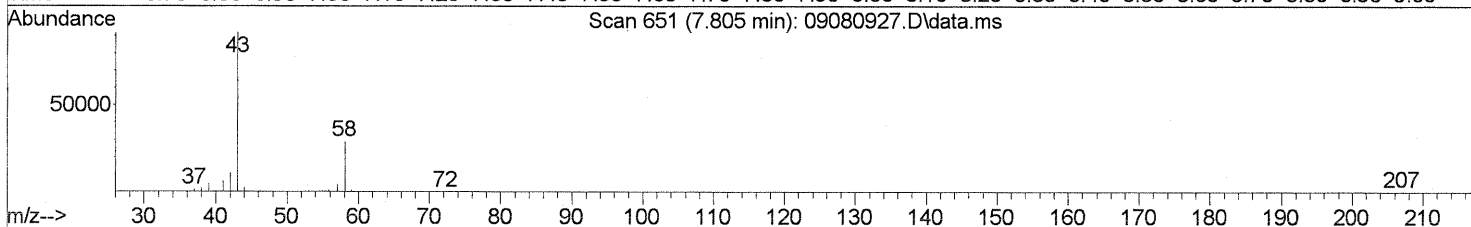
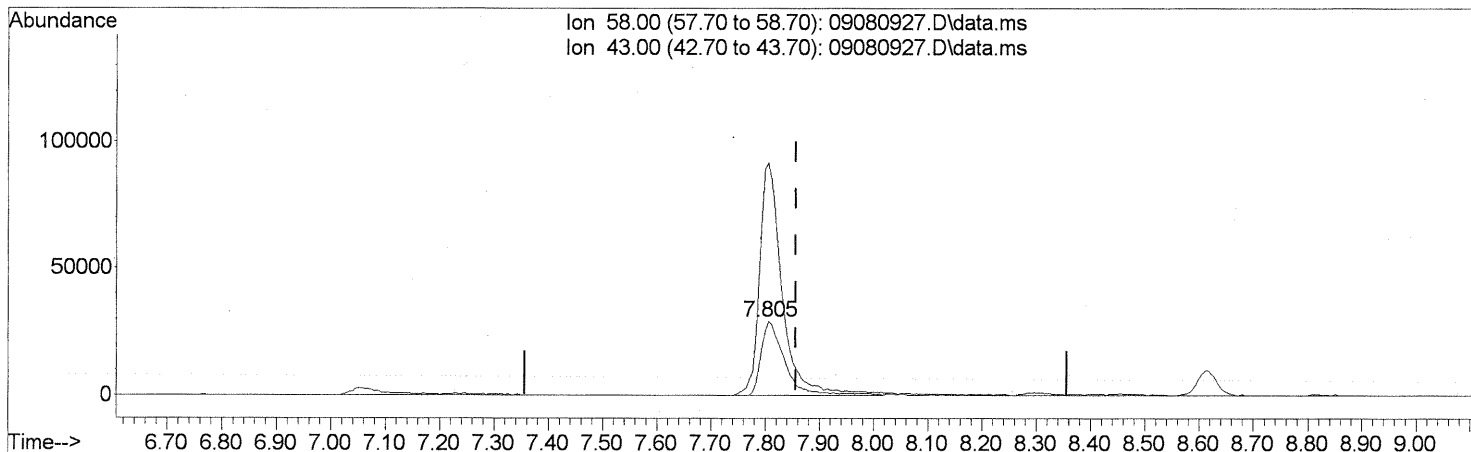
(12) Acrolein (T)
 7.566min (-0.011) 0.50ng
 response 4413

Ion	Exp%	Act%
56.00	100	100
55.00	71.10	64.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

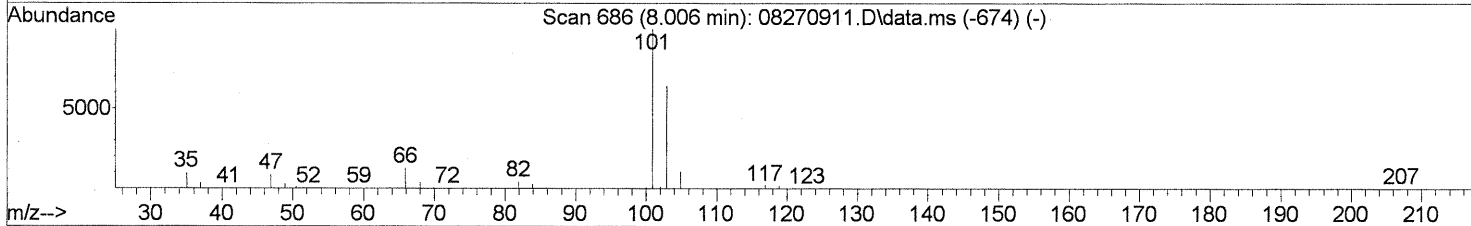
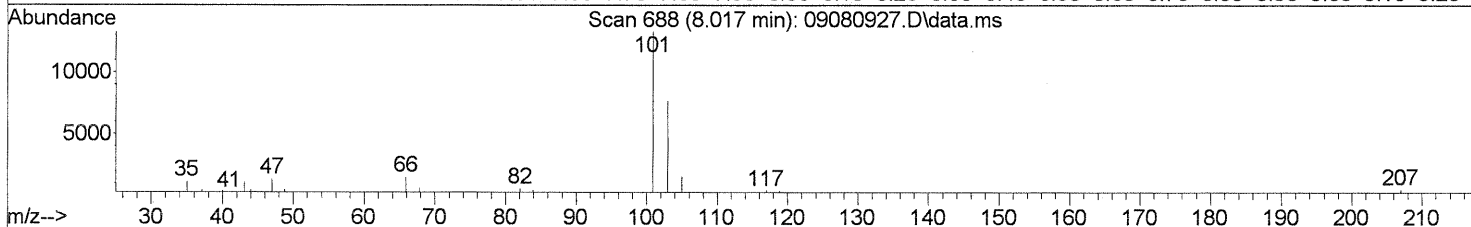
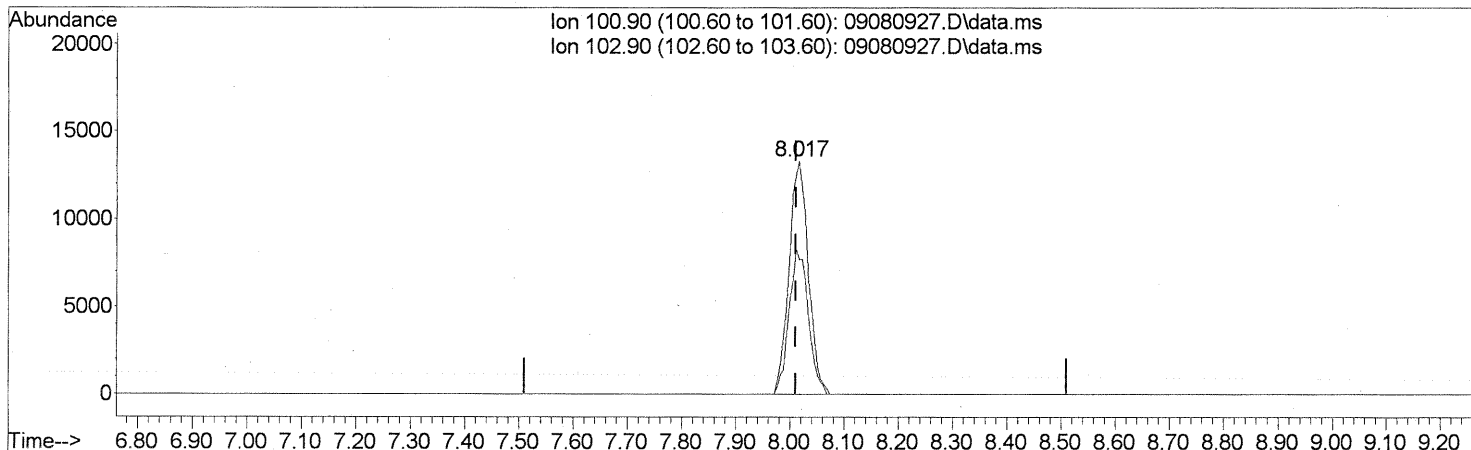
(13) Acetone (T)
 7.805min (-0.052) 7.26ng
 response 86557

Ion	Exp%	Act%
58.00	100	100
43.00	331.30	306.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(14) Trichlorofluoromethane (T)

8.017min (+0.006) 1.15ng

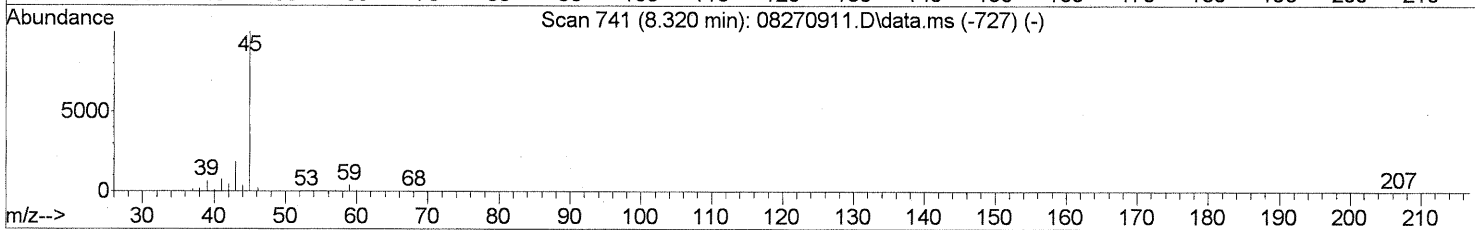
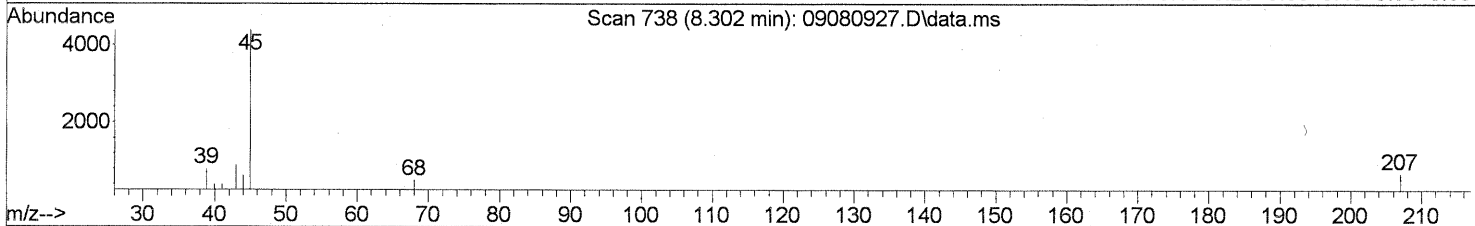
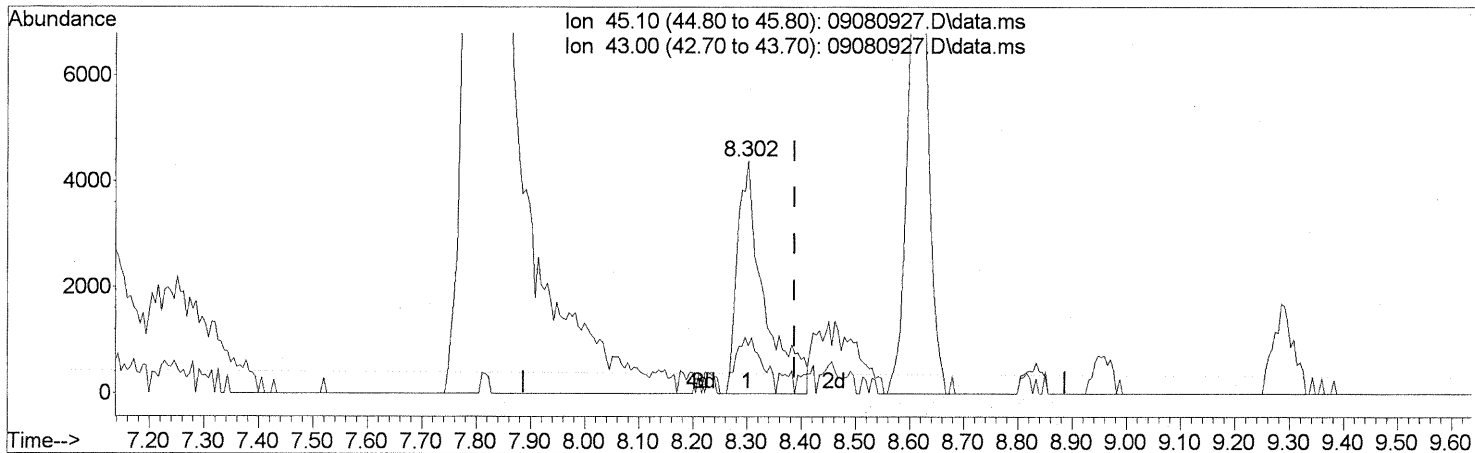
response 32879

Ion	Exp%	Act%
100.90	100	100
102.90	66.10	62.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(15) 2-Propanol (Isopropanol) (T)
 8.302min (-0.086) 0.38ng
 response 15010

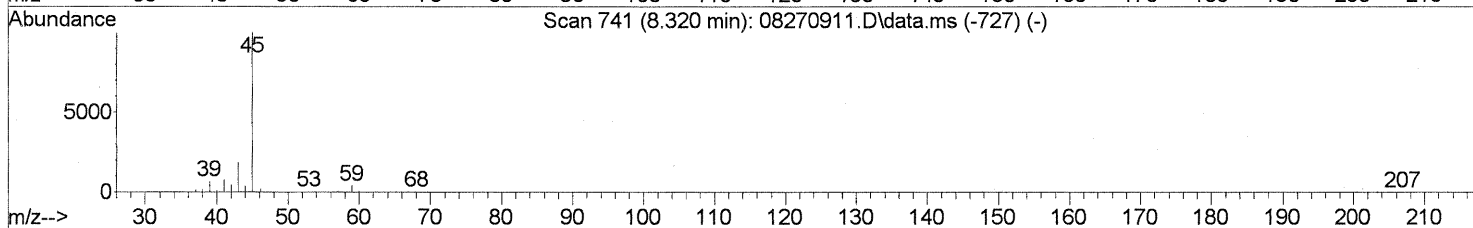
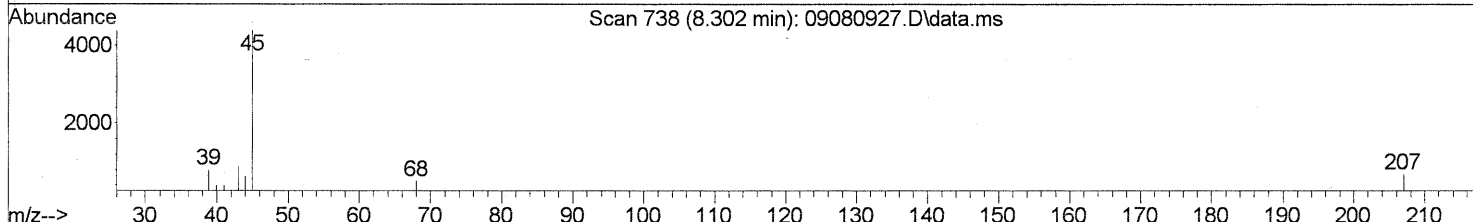
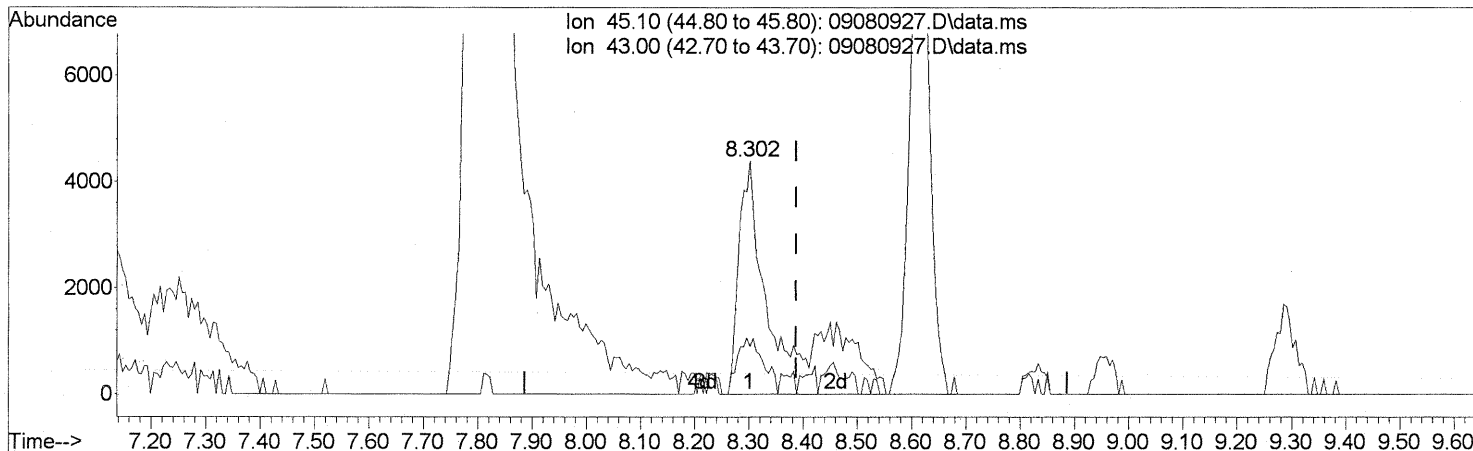
Ion	Exp%	Act%
45.10	100	100
43.00	18.70	23.28
0.00	0.00	0.00
0.00	0.00	0.00

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

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

8.302min (-0.086) 0.56ng m

response 22076

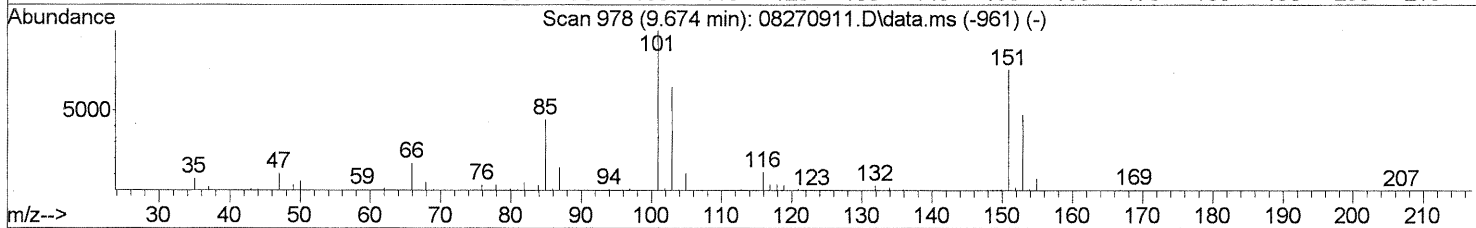
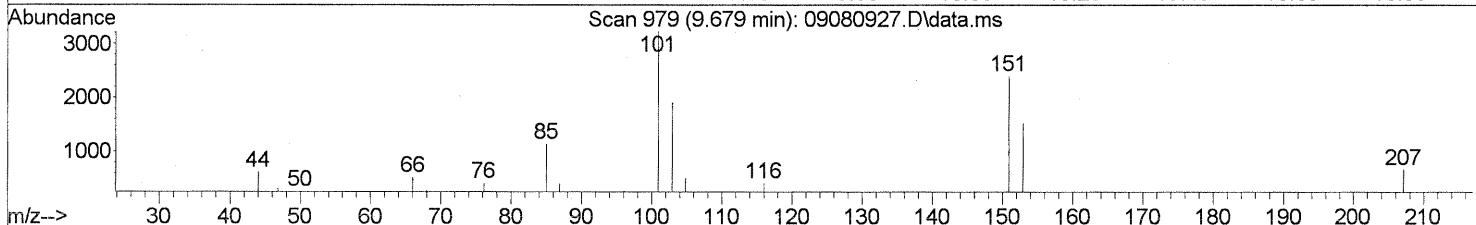
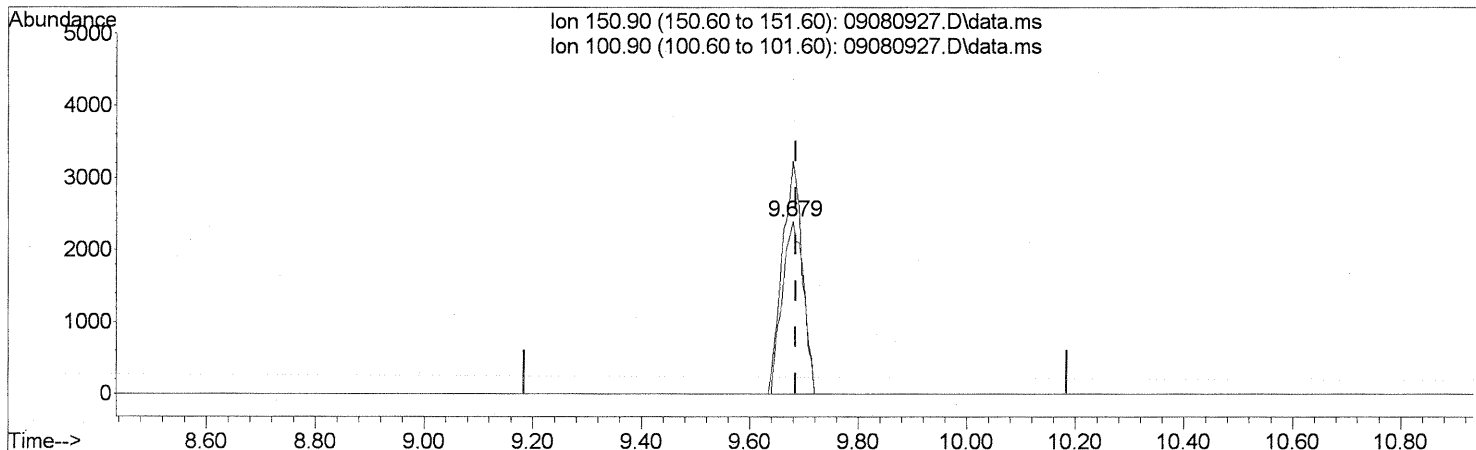
Ion	Exp%	Act%
45.10	100	100
43.00	18.70	15.83
0.00	0.00	0.00
0.00	0.00	0.00

SP -> IC
LM 9/11/09
LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(21) Trichlorotrifluoroethane (T)

9.679min (-0.006) 0.58ng

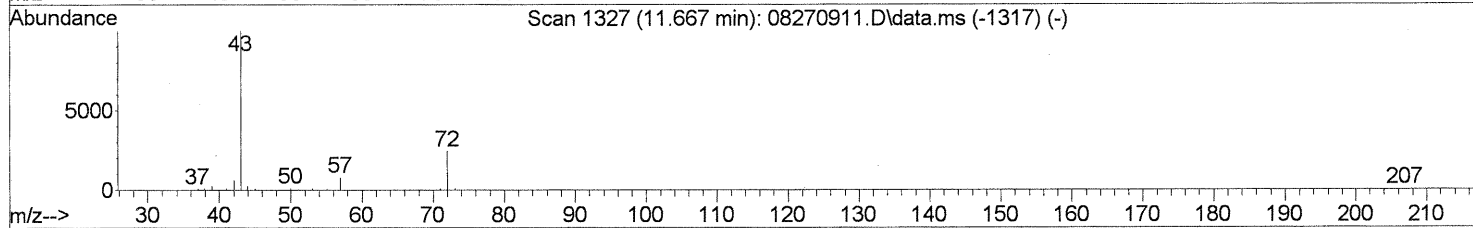
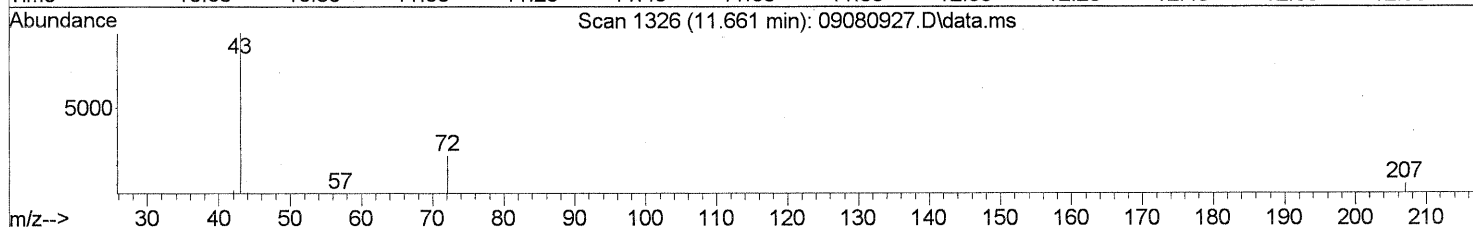
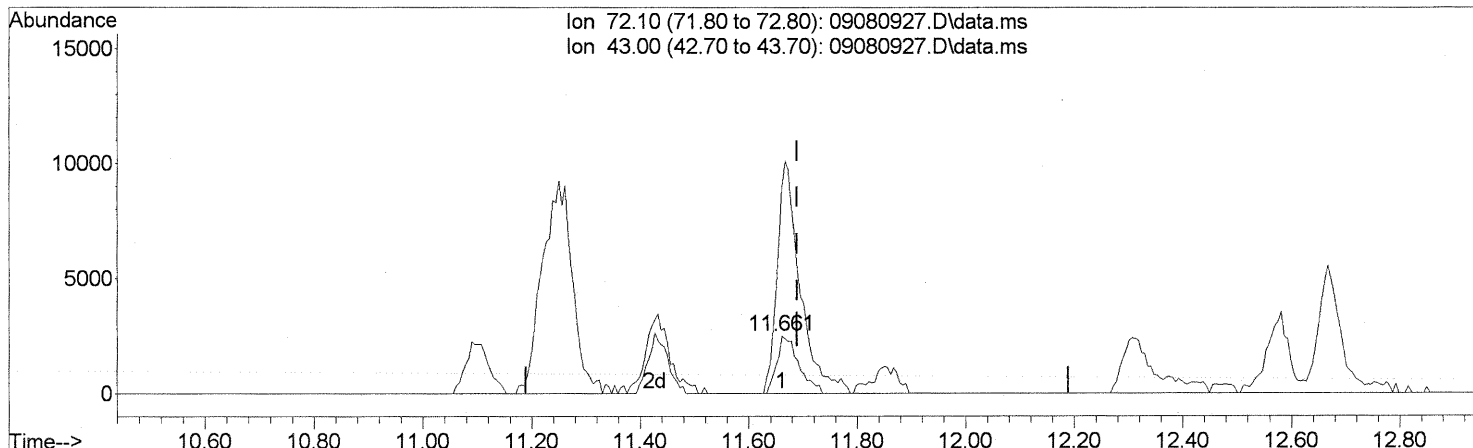
response 6592

Ion	Exp%	Act%
150.90	100	100
100.90	138.30	123.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

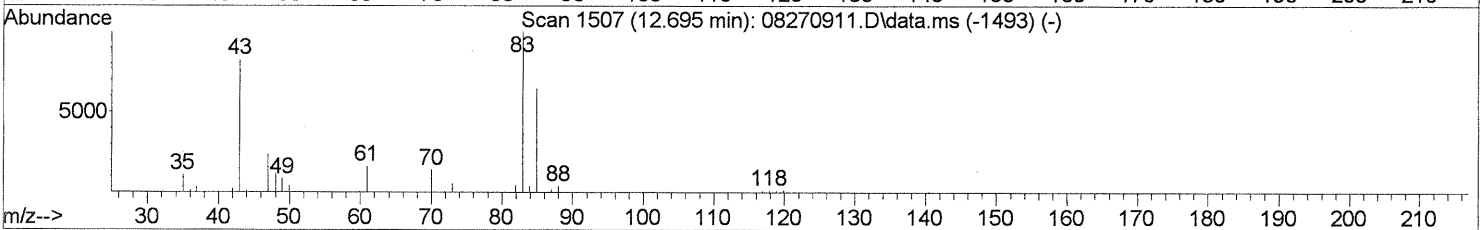
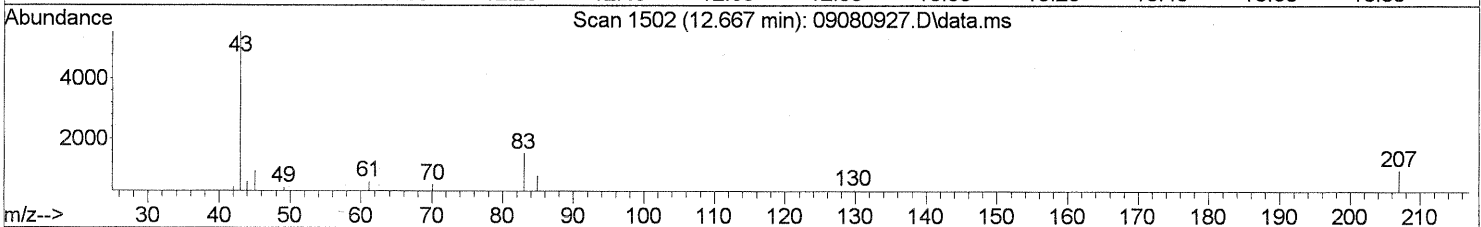
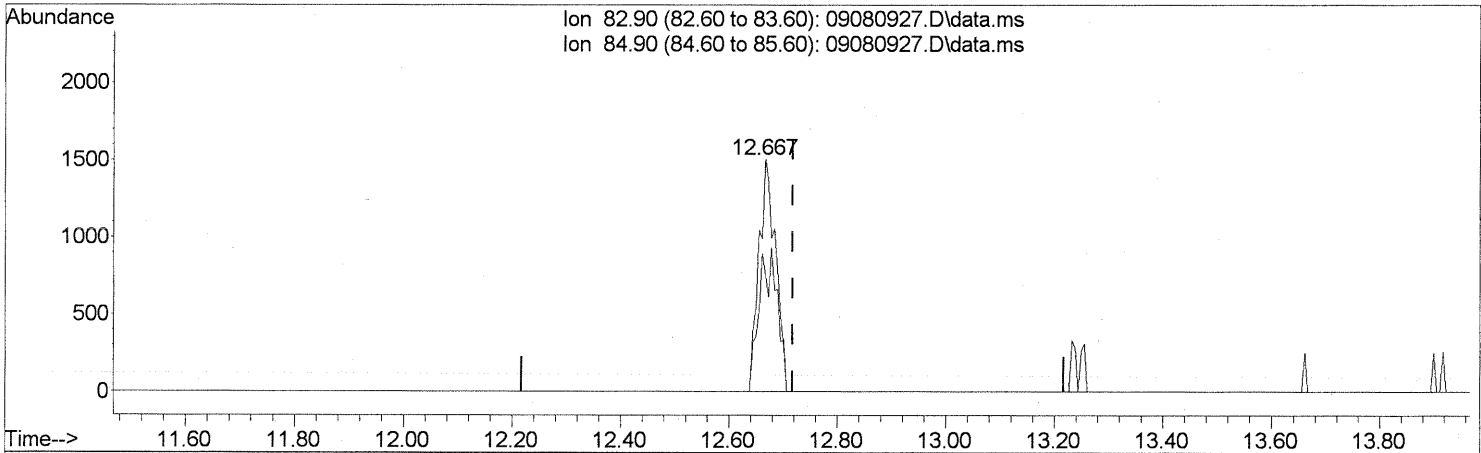
(27) 2-Butanone (MEK) (T)
 11.661min (-0.029) 0.73ng
 response 7024

Ion	Exp%	Act%
72.10	100	100
43.00	424.60	423.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

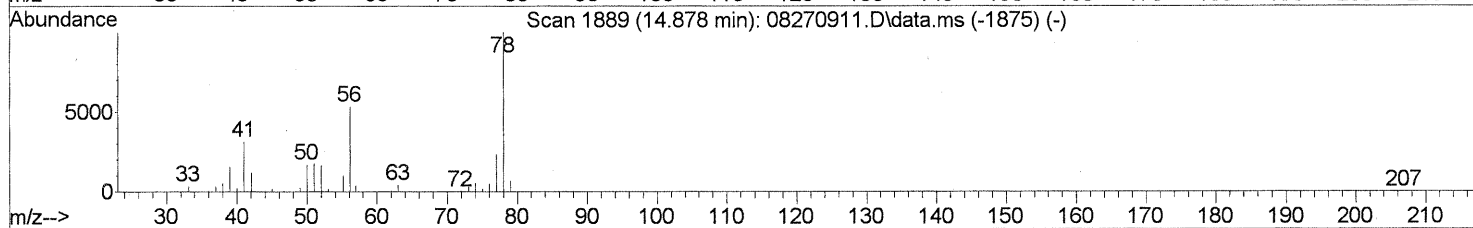
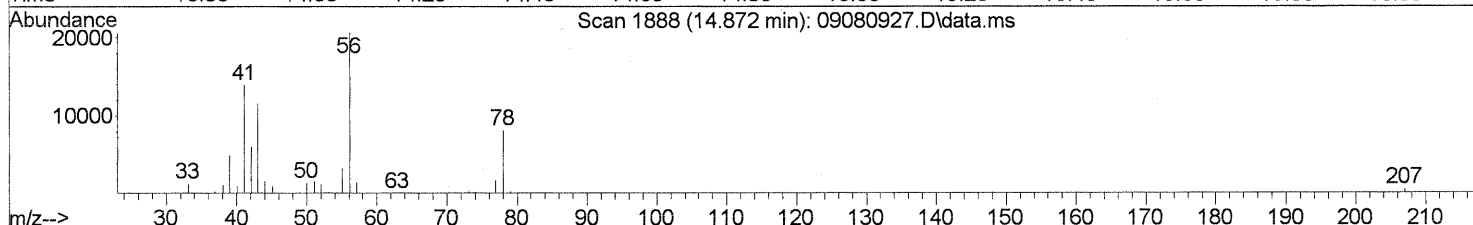
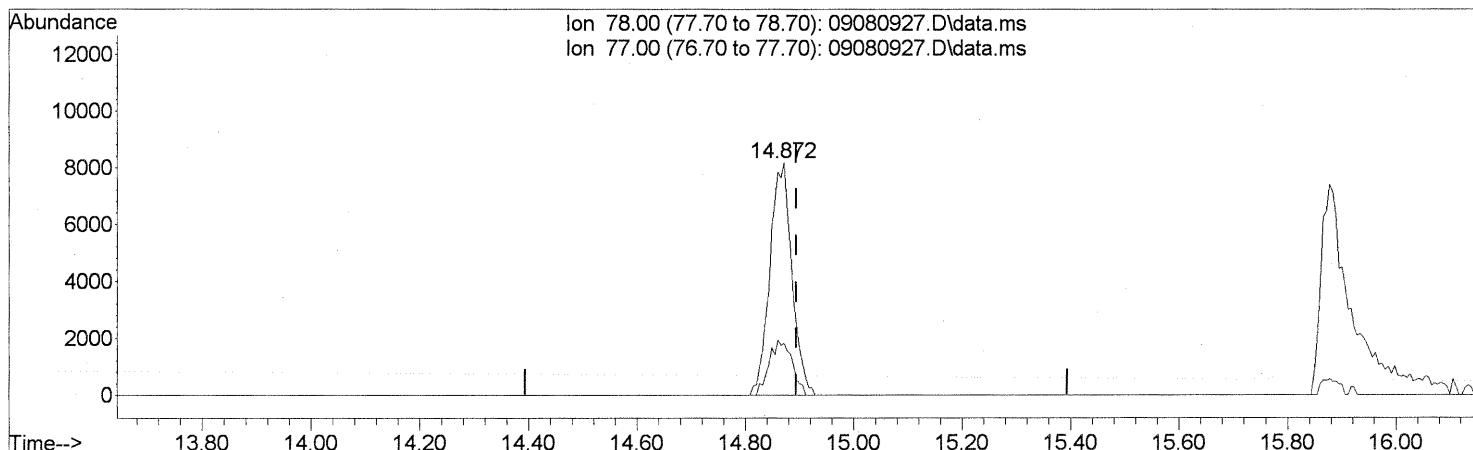
(32) Chloroform (T)
 12.667min (-0.052) 0.13ng
 response 3247

Ion	Exp%	Act%
82.90	100	100
84.90	62.60	67.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



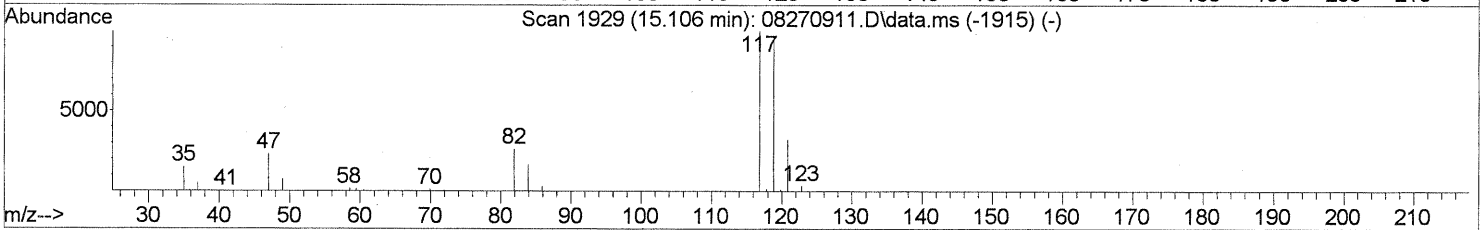
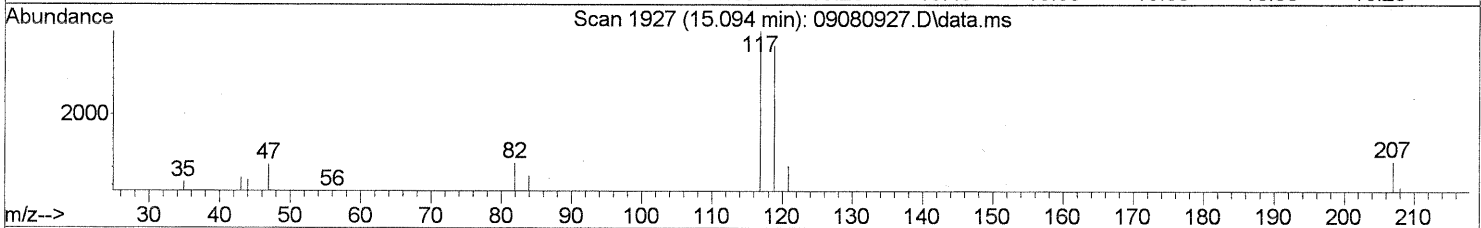
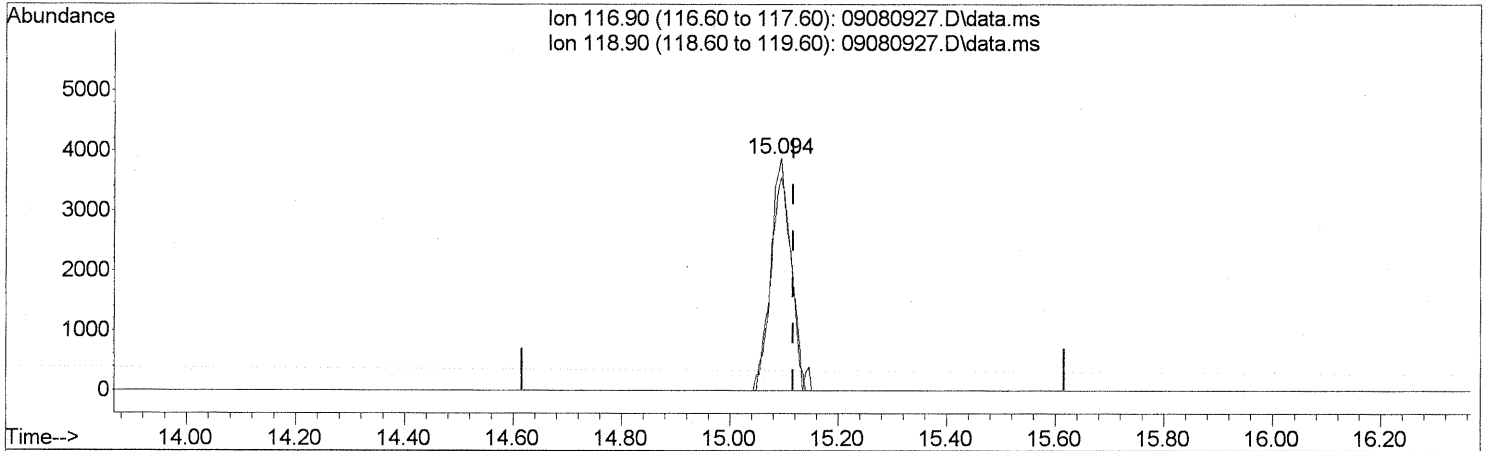
TIC: 09080927.D\data.ms

(41) Benzene (T)		
14.872min (-0.023) 0.38ng		
response 23009		
Ion	Exp%	Act%
78.00	100	100
77.00	23.20	24.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(42) Carbon Tetrachloride (T)

15.094min (-0.023) 0.48ng

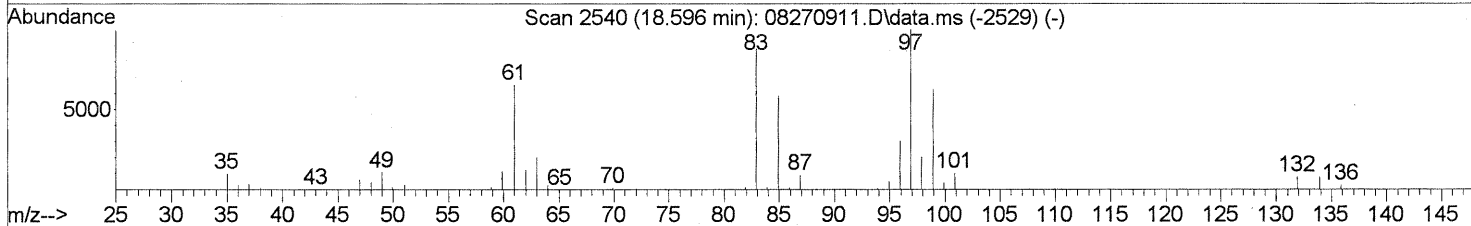
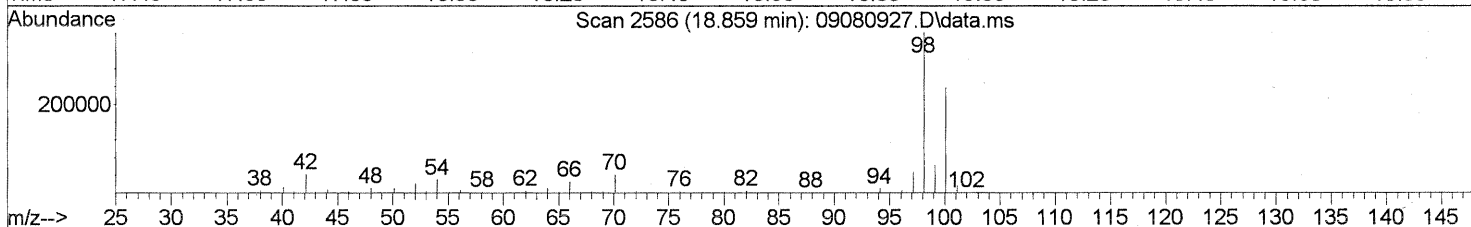
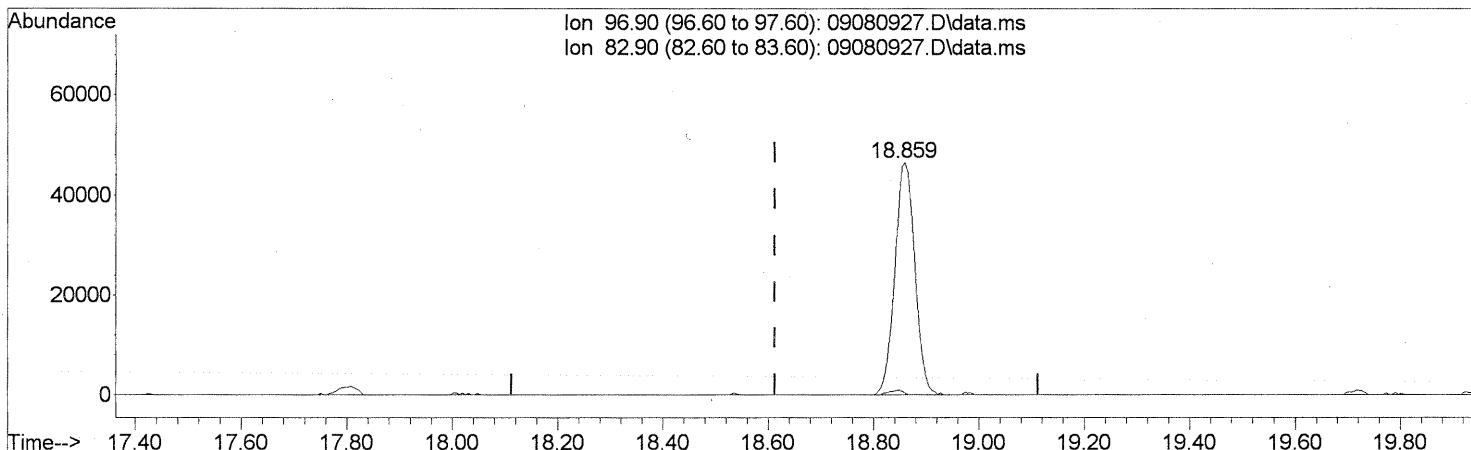
response 9858

Ion	Exp%	Act%
116.90	100	100
118.90	96.20	98.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(55) 1,1,2-Trichloroethane (T)
 18.859min (+0.245) 8.64ng
 response 122564

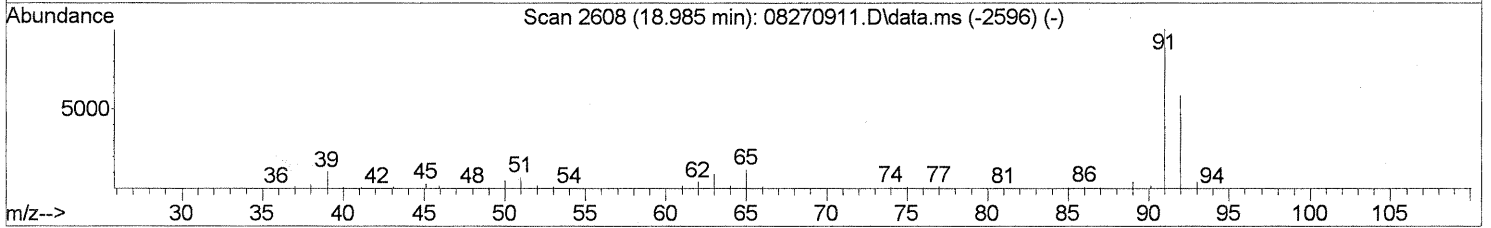
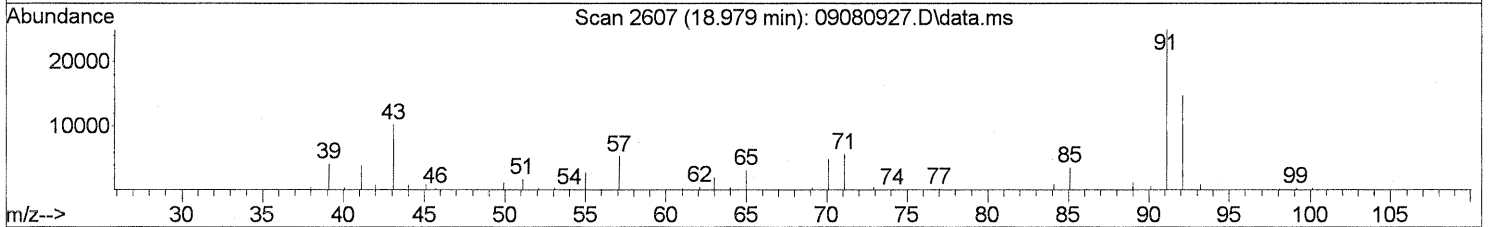
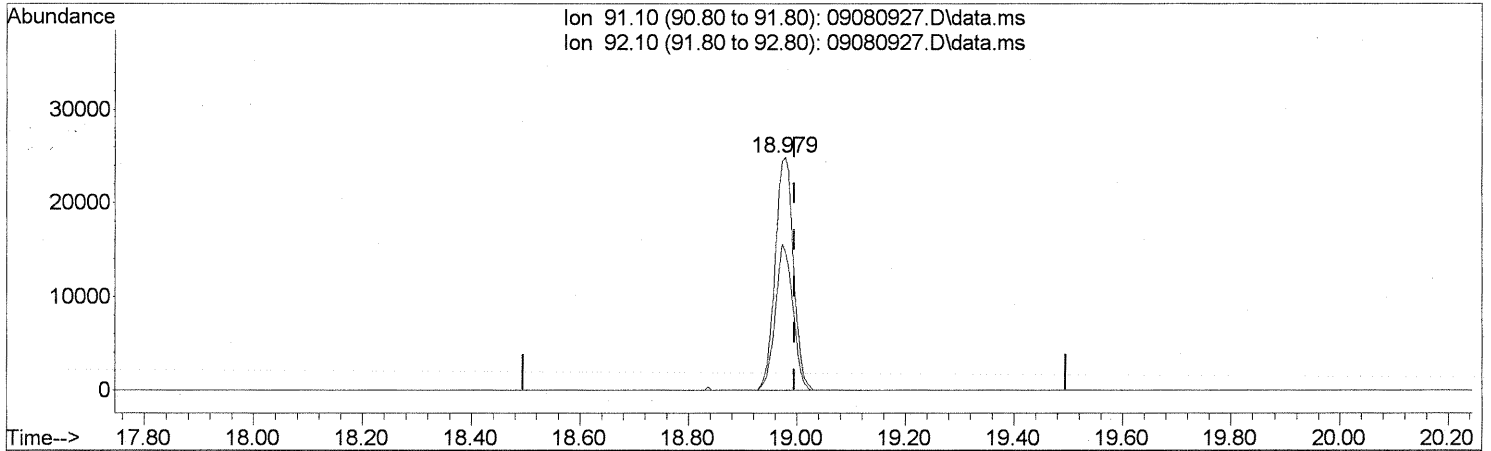
Ion	Exp%	Act%
96.90	100	100
82.90	87.70	1.27#
0.00	0.00	0.00
0.00	0.00	0.00

FP
 LM 9/14/09
 LM 9/15/09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

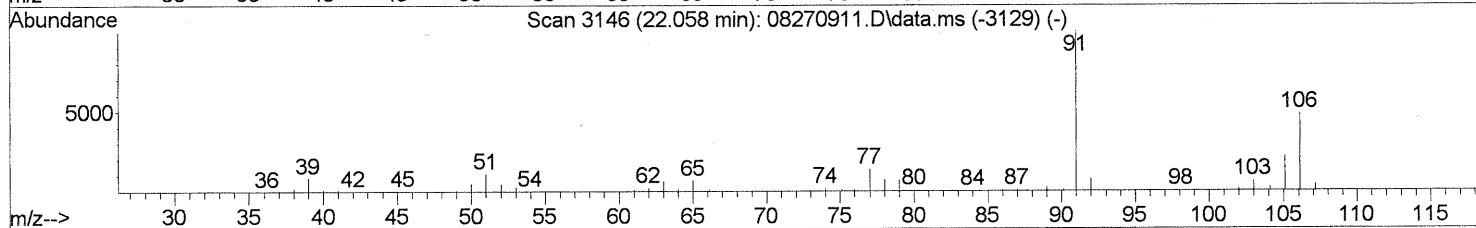
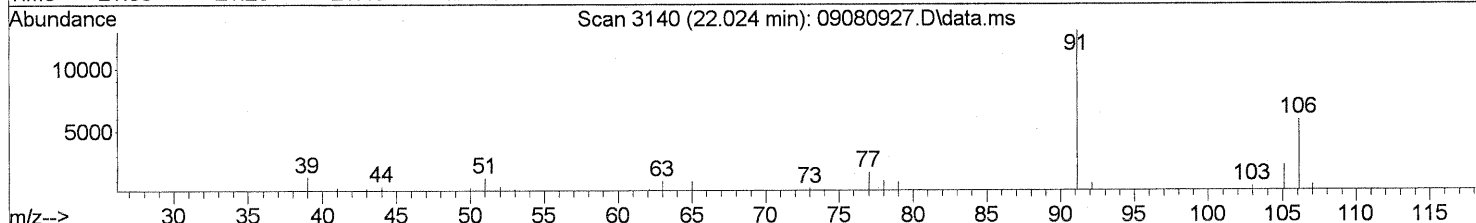
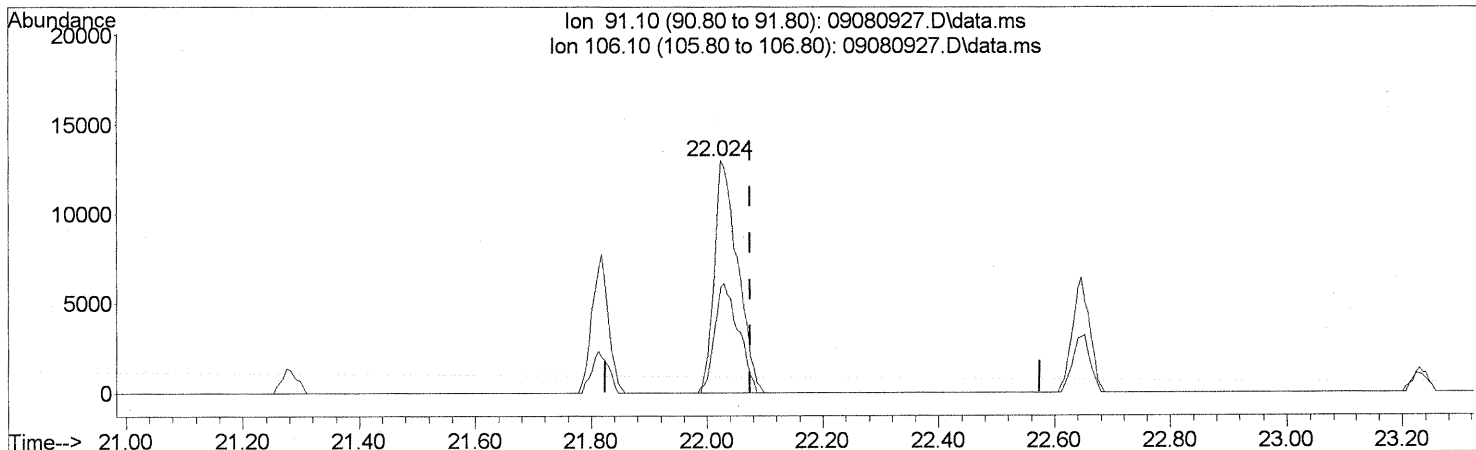
(58) Toluene (T)
 18.979min (-0.017) 0.95ng
 response 58094

Ion	Exp%	Act%
91.10	100	100
92.10	58.80	59.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

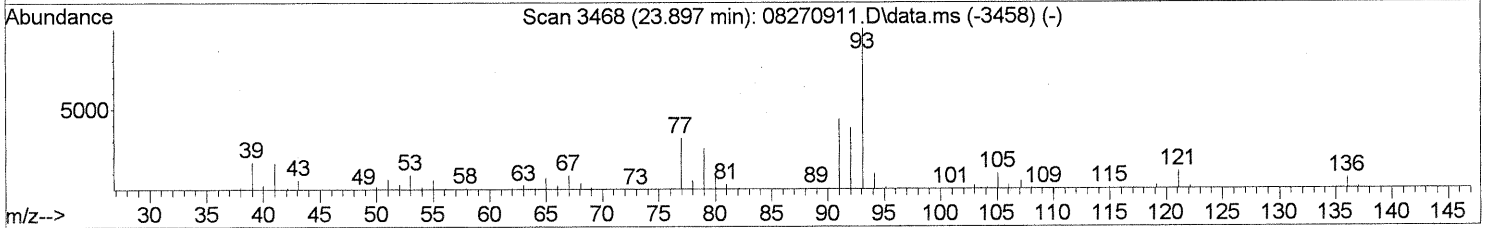
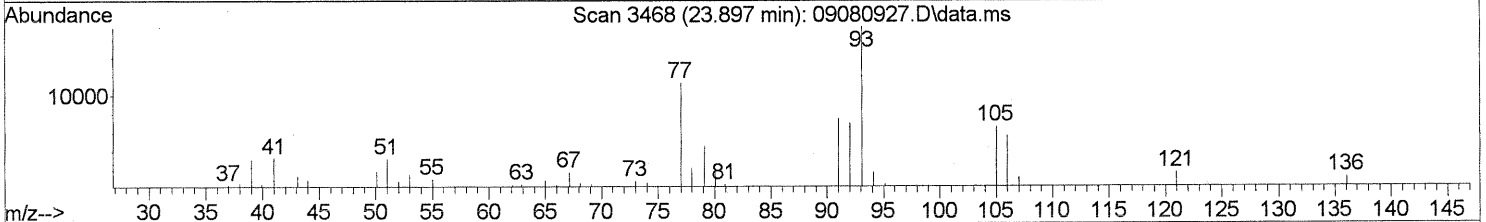
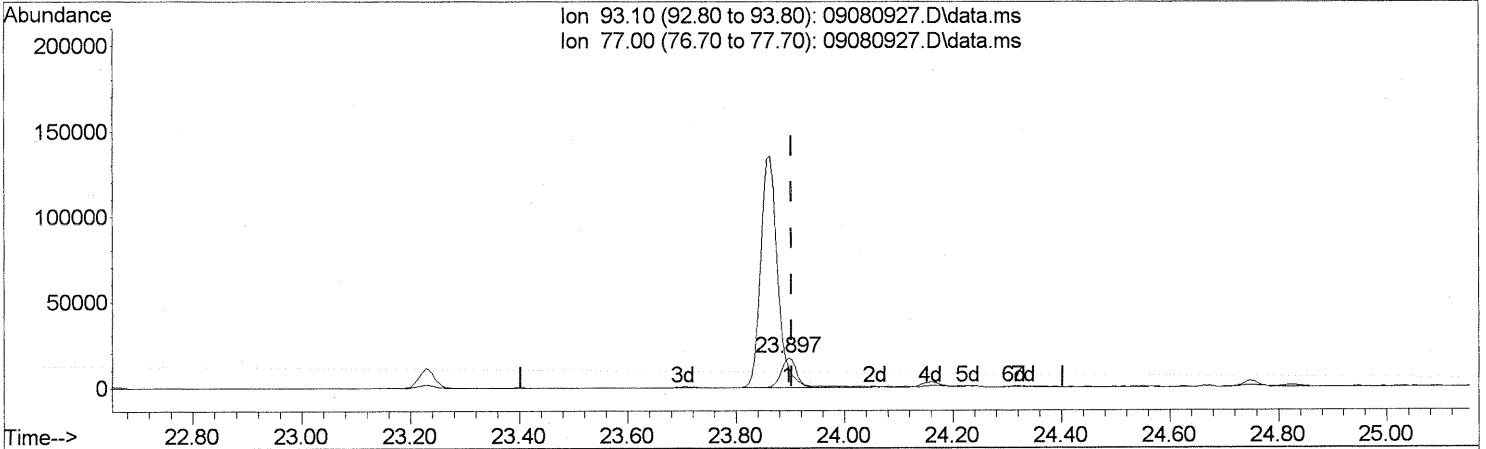
(67) m- & p-Xylenes (T)
 22.024min (-0.052) 0.65ng
 response 36417

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	48.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080927.D
 Acq On : 9 Sep 2009 5:08
 Operator : LM/CC
 Sample : P0903081-005 (1000ml)
 Misc : EH&E 104768
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 09 10:14:13 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



TIC: 09080927.D\data.ms

(75) alpha-Pinene (T)		
23.897min	(-0.006)	0.89ng
response	32754	
Ion	Exp%	Act%
93.10	100	100
77.00	33.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 3

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

CAS Project ID: P0903081
 CAS Sample ID: P090908-MB
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/8/09
 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: Re Date: 9/16/09 **210**

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

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

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

CAS Project ID: P0903081
CAS Sample ID: P090908-MB

Date Collected: NA
Date Received: NA
Date Analyzed: 9/8/09
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m ³	MRL µg/m ³	Result ppbV	MRL ppbV	Data Qualifier
156-59-2	cis-1,2-Dichloroethene	ND	0.10	ND	0.025	
141-78-6	Ethyl Acetate	ND	0.50	ND	0.14	
110-54-3	n-Hexane	ND	0.50	ND	0.14	
67-66-3	Chloroform	ND	0.10	ND	0.020	
109-99-9	Tetrahydrofuran (THF)	ND	0.50	ND	0.17	
107-06-2	1,2-Dichloroethane	ND	0.10	ND	0.025	
71-55-6	1,1,1-Trichloroethane	ND	0.10	ND	0.018	
71-43-2	Benzene	ND	0.10	ND	0.031	
56-23-5	Carbon Tetrachloride	ND	0.10	ND	0.016	
110-82-7	Cyclohexane	ND	0.50	ND	0.15	
78-87-5	1,2-Dichloropropane	ND	0.10	ND	0.022	
75-27-4	Bromodichloromethane	ND	0.10	ND	0.015	
79-01-6	Trichloroethene	ND	0.10	ND	0.019	
123-91-1	1,4-Dioxane	ND	0.50	ND	0.14	
80-62-6	Methyl Methacrylate	ND	0.50	ND	0.12	
142-82-5	n-Heptane	ND	0.50	ND	0.12	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	ND	0.11	
108-10-1	4-Methyl-2-pentanone	ND	0.50	ND	0.12	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	ND	0.11	
79-00-5	1,1,2-Trichloroethane	ND	0.10	ND	0.018	
108-88-3	Toluene	ND	0.50	ND	0.13	
591-78-6	2-Hexanone	ND	0.50	ND	0.12	
124-48-1	Dibromochloromethane	ND	0.10	ND	0.012	
106-93-4	1,2-Dibromoethane	ND	0.10	ND	0.013	
123-86-4	n-Butyl Acetate	ND	0.50	ND	0.11	

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 3 of 3

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

CAS Project ID: P0903081
 CAS Sample ID: P090908-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 9/8/09
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	

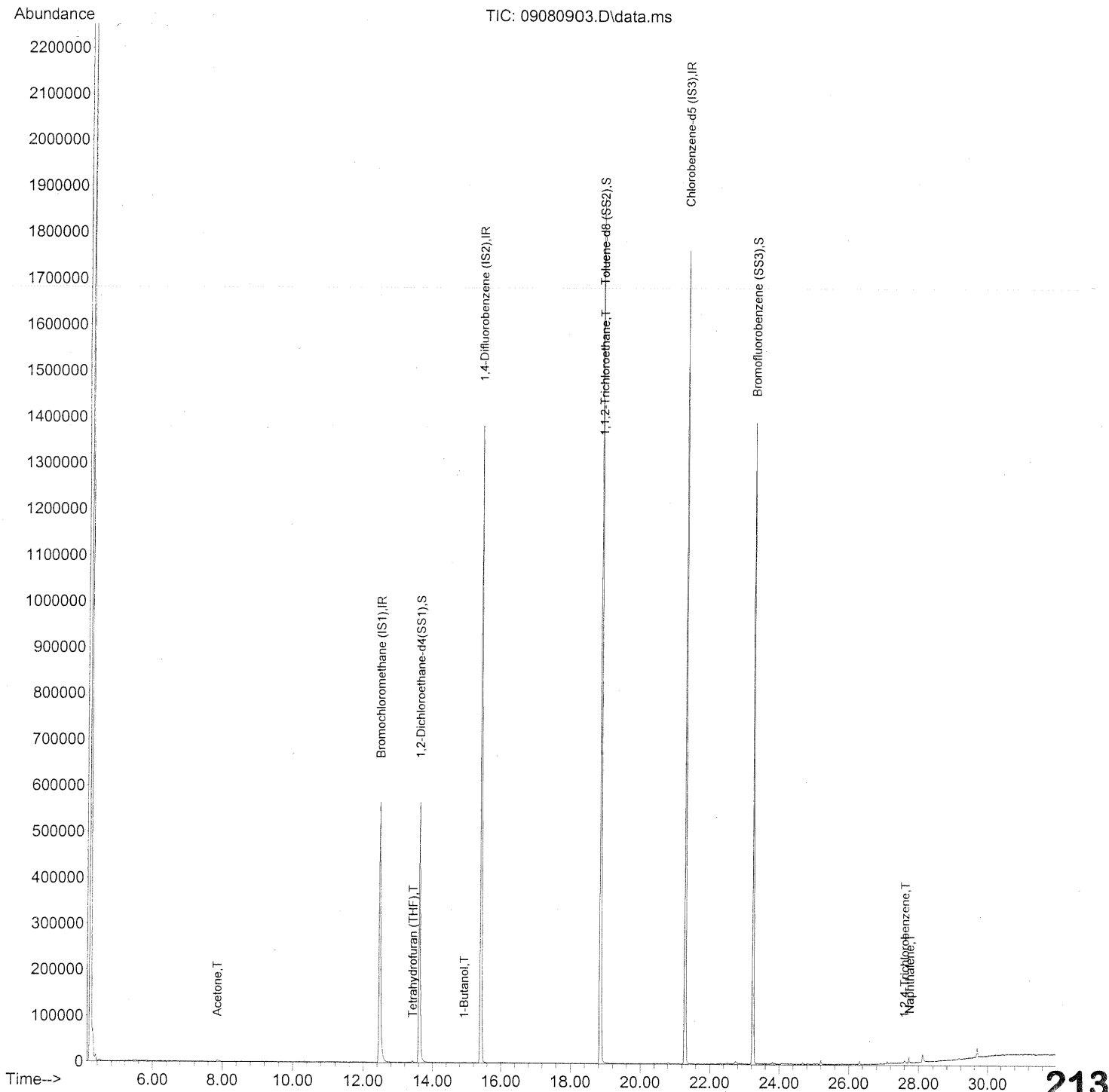
ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

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

Verified By: Re Date: 9/16/09 **212**

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080903.D
 Acq On : 8 Sep 2009 11:34 am
 Operator : LM/CC
 Sample : TO-15 Method Blank(1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 15:03:49 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080903.D
 Acq On : 8 Sep 2009 11:34 am
 Operator : LM/CC
 Sample : TO-15 Method Blank(1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

LM 9/10/09
CC
9-10-09

Quant Time: Sep 08 15:03:49 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	311945	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.41	114	1578396	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.29	82	734738	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	608129	24.600	ng	-0.03
Spiked Amount	25.000		Recovery	=	98.40%	✓
57) Toluene-d8 (SS2)	18.85	98	1643562	25.030	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.12%	✓
73) Bromofluorobenzene (SS3)	23.24	174	460072	24.345	ng	0.00
Spiked Amount	25.000		Recovery	=	97.36%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.73	42	548		N.D.	
3) Dichlorodifluoromethan...	0.00	85	0		N.D.	
4) Chloromethane	0.00	50	0		N.D.	
5) 1,2-Dichloro-1,1,2,2-t...	0.00	135	0		N.D.	
6) Vinyl Chloride	0.00	62	0		N.D.	
7) 1,3-Butadiene	0.00	54	0		N.D.	
8) Bromomethane	0.00	94	0		N.D.	
9) Chloroethane	0.00	64	0		N.D.	
10) Ethanol	7.12	45	541		N.D.	
11) Acetonitrile	7.45	41	93		N.D.	
12) Acrolein	0.00	56	0		N.D.	
13) Acetone	7.85	58	2844	0.197	ng	96
14) Trichlorofluoromethane	0.00	101	0		N.D.	
15) 2-Propanol (Isopropanol)	8.38	45	189		N.D.	
16) Acrylonitrile	0.00	53	0		N.D.	
17) 1,1-Dichloroethene	0.00	96	0		N.D.	
18) 2-Methyl-2-Propanol (t...	0.00	59	0		N.D.	
19) Methylene Chloride	9.26	84	205		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	9.66	76	97		N.D.	
23) trans-1,2-Dichloroethene	0.00	61	0		N.D.	
24) 1,1-Dichloroethane	0.00	63	0		N.D.	
25) Methyl tert-Butyl Ether	0.00	73	0		N.D.	
26) Vinyl Acetate	0.00	86	0		N.D.	
27) 2-Butanone (MEK)	0.00	72	0		N.D.	
28) cis-1,2-Dichloroethene	0.00	61	0		N.D.	
29) Diisopropyl Ether	0.00	87	0		N.D.	
30) Ethyl Acetate	0.00	61	0		N.D.	
31) n-Hexane	0.00	57	0		N.D.	

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080903.D
 Acq On : 8 Sep 2009 11:34 am
 Operator : LM/CC
 Sample : TO-15 Method Blank(1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 15:03:49 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran (THF)	13.42	72	852	0.067	ng #	66
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.92	56	1184	0.060	ng	92
41) Benzene	14.87	78	395	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.43	84	918	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) 2,2,4-Trimethylpentane...	0.00	57	0	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	0.00	58	0	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.86	97	143771	8.315	ng #	6
58) Toluene	18.98	91	1258	N.D.		
59) 2-Hexanone	19.38	43	344	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) n-Butyl Acetate	20.18	43	186	N.D.		
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	22.03	91	1785	N.D.		
67) m- & p-Xylenes	22.03	91	1785	N.D.		
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.51	104	283	N.D.		
70) o-Xylene	22.67	91	313	N.D.		
71) n-Nonane	22.93	43	91	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.43	105	1114	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.06	91	825	N.D.		
77) 3-Ethyltoluene	24.17	105	1318	N.D.		
78) 4-Ethyltoluene	24.23	105	1593	N.D.		
79) 1,3,5-Trimethylbenzene	24.30	105	1701	N.D.		

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080903.D
 Acq On : 8 Sep 2009 11:34 am
 Operator : LM/CC
 Sample : TO-15 Method Blank(1000ml)
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 15:03:49 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	24.57	105	709	N.D.		
82) 1,2,4-Trimethylbenzene	24.83	105	587	N.D.		
83) n-Decane	24.69	57	497	N.D.		
84) Benzyl Chloride	25.00	91	2386	N.D.		
85) 1,3-Dichlorobenzene	25.03	146	472	N.D.		
86) 1,4-Dichlorobenzene	25.11	146	1100	N.D.		
87) sec-Butylbenzene	24.88	105	88	N.D.		
88) 4-Isopropyltoluene (p-...	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.82	105	95	N.D.		
90) 1,2-Dichlorobenzene	25.11	146	1100	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.07	157	200	N.D.		
93) n-Undecane	26.45	57	226	N.D.		
94) 1,2,4-Trichlorobenzene	27.60	180	1587	0.068	ng #	78
95) Naphthalene	27.74	128	11664	0.128	ng	98
96) n-Dodecane	27.70	57	356	N.D.		
97) Hexachlorobutadiene	28.15	225	372	N.D.		
98) Cyclohexanone	22.31	55	401	N.D.		
99) tert-Butylbenzene	24.83	119	270	N.D.		
100) n-Butylbenzene	25.86	91	642	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

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

CAS Project ID: P0903081

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13
Analyst: Liliana Marghitoiu
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 9/1/09
Date(s) Received: 9/2/09
Date(s) Analyzed: 9/8 - 9/9/09

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	P090908-MB	98	70-130	100	70-130	97	70-130	
Lab Control Sample	P090908-LCS	98	70-130	100	70-130	100	70-130	
104764	P0903081-001	97	70-130	99	70-130	104	70-130	
104765	P0903081-002	97	70-130	100	70-130	105	70-130	
104766	P0903081-003	97	70-130	99	70-130	104	70-130	
104767	P0903081-004	96	70-130	99	70-130	105	70-130	
104768	P0903081-005	96	70-130	99	70-130	104	70-130	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

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

CAS Project ID: P0903081
 CAS Sample ID: P090908-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/08/09
 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	19.9	76	58-134	
75-71-8	Dichlorodifluoromethane (CFC 12)	26.0	18.5	71	61-118	
74-87-3	Chloromethane	25.0	20.5	82	46-132	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	18.9	73	65-122	
75-01-4	Vinyl Chloride	25.3	19.0	75	57-132	
106-99-0	1,3-Butadiene	26.8	20.0	75	66-161	
74-83-9	Bromomethane	25.8	23.1	90	67-130	
75-00-3	Chloroethane	25.5	19.8	78	68-123	
64-17-5	Ethanol	130	106	82	50-155	
75-05-8	Acetonitrile	26.0	19.4	75	48-148	
107-02-8	Acrolein	26.3	22.8	87	67-138	
67-64-1	Acetone	132	101	77	59-121	
75-69-4	Trichlorofluoromethane	26.3	20.0	76	67-132	
67-63-0	2-Propanol (Isopropyl Alcohol)	48.0	39.1	81	54-126	
107-13-1	Acrylonitrile	25.8	23.2	90	65-134	
75-35-4	1,1-Dichloroethene	27.5	22.4	81	70-123	
75-09-2	Methylene Chloride	26.8	20.4	76	66-121	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	27.0	22.9	85	63-149	
76-13-1	Trichlorotrifluoroethane	27.5	23.2	84	69-126	
75-15-0	Carbon Disulfide	26.0	20.9	80	66-115	
156-60-5	trans-1,2-Dichloroethene	25.5	22.4	88	69-125	
75-34-3	1,1-Dichloroethane	26.5	22.3	84	72-130	
1634-04-4	Methyl tert-Butyl Ether	26.3	21.8	83	72-132	
108-05-4	Vinyl Acetate	126	119	94	73-158	
78-93-3	2-Butanone (MEK)	26.8	24.1	90	68-126	

Verified By: Ro Date: 9/16/09 **219**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

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

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

CAS Project ID: P0903081
 CAS Sample ID: P090908-LCS

Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/08/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
156-59-2	cis-1,2-Dichloroethene	27.0	23.2	86	69-124	
141-78-6	Ethyl Acetate	52.0	45.7	88	65-126	
110-54-3	n-Hexane	26.0	20.9	80	63-125	
67-66-3	Chloroform	27.5	21.9	80	68-126	
109-99-9	Tetrahydrofuran (THF)	26.5	21.5	81	65-124	
107-06-2	1,2-Dichloroethane	26.3	21.8	83	61-129	
71-55-6	1,1,1-Trichloroethane	26.0	21.6	83	69-127	
71-43-2	Benzene	25.8	21.0	81	68-122	
56-23-5	Carbon Tetrachloride	26.3	22.7	86	68-137	
110-82-7	Cyclohexane	51.8	43.5	84	68-121	
78-87-5	1,2-Dichloropropane	26.0	22.2	85	69-128	
75-27-4	Bromodichloromethane	26.3	22.2	84	71-131	
79-01-6	Trichloroethene	25.8	22.4	87	72-122	
123-91-1	1,4-Dioxane	26.0	23.4	90	73-127	
80-62-6	Methyl Methacrylate	52.8	49.1	93	80-133	
142-82-5	n-Heptane	25.8	22.3	86	69-126	
10061-01-5	cis-1,3-Dichloropropene	24.5	21.4	87	73-122	
108-10-1	4-Methyl-2-pentanone	26.8	23.3	87	67-122	
10061-02-6	trans-1,3-Dichloropropene	27.0	23.9	89	75-131	
79-00-5	1,1,2-Trichloroethane	26.0	21.7	83	76-125	
108-88-3	Toluene	26.8	22.5	84	74-119	
591-78-6	2-Hexanone	27.0	22.6	84	64-118	
124-48-1	Dibromochloromethane	28.3	24.5	87	79-129	
106-93-4	1,2-Dibromoethane	26.3	22.7	86	79-125	
123-86-4	n-Butyl Acetate	27.5	22.3	81	70-136	

Verified By: Re Date: 9/16/09 **220**

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

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

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

CAS Project ID: P0903081
 CAS Sample ID: P090908-LCS

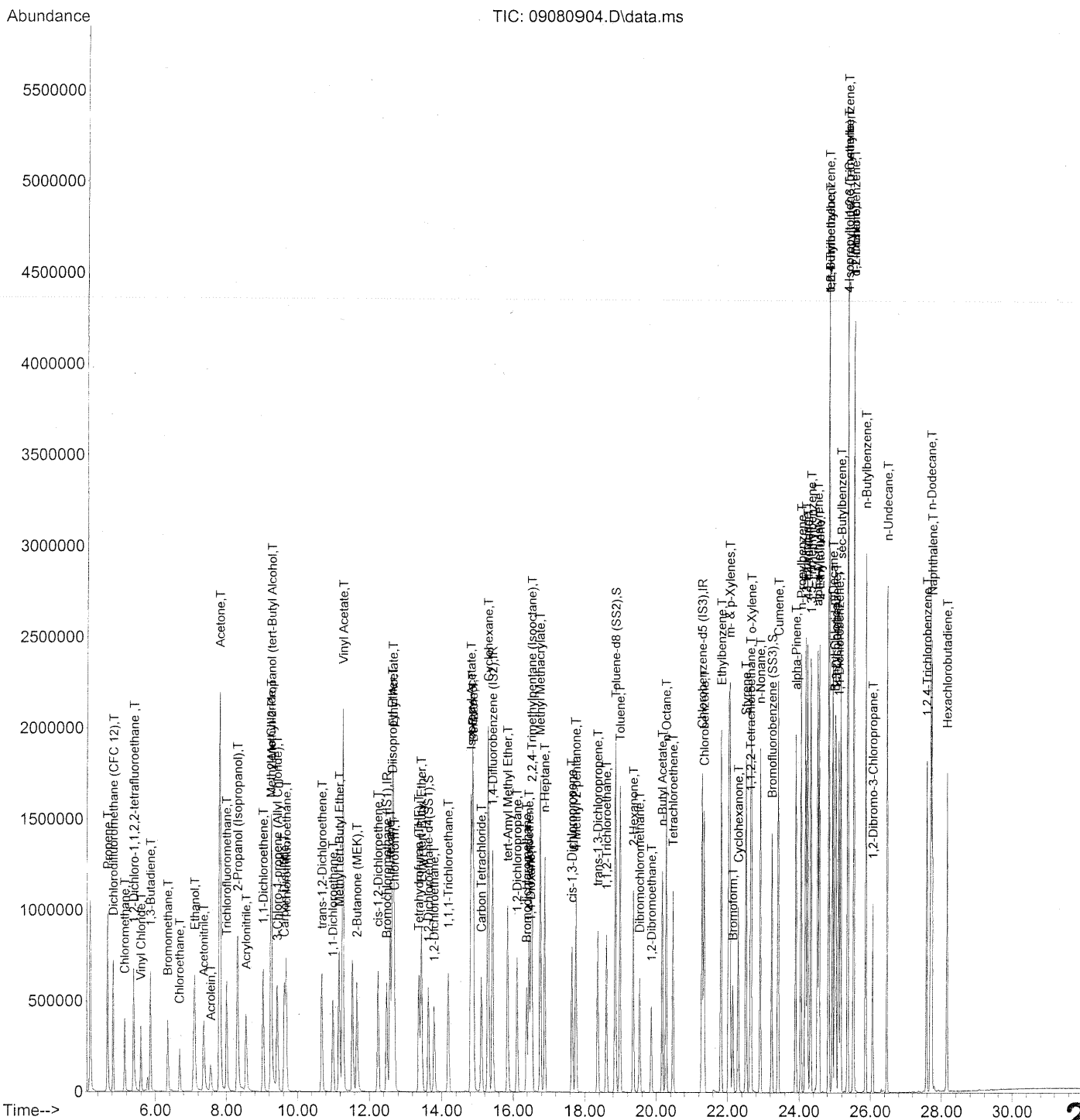
Date Collected: NA
 Date Received: NA
 Date Analyzed: 9/08/09
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount	Result	% Recovery	CAS Acceptance	Data
		ng	ng		Limits	Qualifier
111-65-9	n-Octane	26.3	22.1	84	75-126	
127-18-4	Tetrachloroethene	25.3	22.2	88	72-125	
108-90-7	Chlorobenzene	26.5	23.1	87	74-121	
100-41-4	Ethylbenzene	26.3	22.8	87	76-120	
179601-23-1	m,p-Xylenes	51.5	44.4	86	75-120	
75-25-2	Bromoform	26.5	22.7	86	76-143	
100-42-5	Styrene	26.3	24.1	92	78-124	
95-47-6	o-Xylene	26.0	22.9	88	76-121	
111-84-2	n-Nonane	25.8	21.7	84	69-129	
79-34-5	1,1,2,2-Tetrachloroethane	27.0	22.5	83	77-126	
98-82-8	Cumene	25.3	22.3	88	78-125	
80-56-8	alpha-Pinene	24.8	21.8	88	78-125	
103-65-1	n-Propylbenzene	25.3	21.9	87	80-127	
622-96-8	4-Ethyltoluene	26.3	23.3	89	75-123	
108-67-8	1,3,5-Trimethylbenzene	26.5	23.7	89	76-124	
95-63-6	1,2,4-Trimethylbenzene	25.5	23.1	91	76-123	
100-44-7	Benzyl Chloride	26.8	22.8	85	80-137	
541-73-1	1,3-Dichlorobenzene	26.0	23.4	90	74-125	
106-46-7	1,4-Dichlorobenzene	26.3	23.0	87	74-126	
95-50-1	1,2-Dichlorobenzene	25.8	23.3	90	75-124	
5989-27-5	d-Limonene	26.5	24.7	93	66-129	
96-12-8	1,2-Dibromo-3-chloropropane	27.0	25.7	95	79-144	
120-82-1	1,2,4-Trichlorobenzene	27.3	25.5	93	70-139	
91-20-3	Naphthalene	25.0	23.2	93	69-141	
87-68-3	Hexachlorobutadiene	26.8	24.2	90	68-138	

Verified By: Re Date: 9/16/09 **221**

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080904.D
 Acq On : 8 Sep 2009 12:30 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 13:20:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080904.D
 Acq On : 8 Sep 2009 12:30 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

LM 9/10/09
CC
9-10-09

Quant Time: Sep 08 13:20:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	305646	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1536812	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	734509	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	592892	24.478	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.92%	✓
57) Toluene-d8 (SS2)	18.85	98	1646446	25.082	ng	0.00
Spiked Amount	25.000		Recovery	=	100.32%	✓
73) Bromofluorobenzene (SS3)	23.24	174	470830	24.922	ng	0.00
Spiked Amount	25.000		Recovery	=	99.68%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	440056	19.904	ng	98
3) Dichlorodifluoromethan...	4.83	85	717170	18.528	ng	99
4) Chloromethane	5.14	50	533623	20.508	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	301416	18.855	ng	100
6) Vinyl Chloride	5.59	62	463661	18.997	ng	99
7) 1,3-Butadiene	5.86	54	363311	19.960	ng	99
8) Bromomethane	6.35	94	348199	23.080	ng	96
9) Chloroethane	6.69	64	264332	19.784	ng	99
10) Ethanol	7.10	45	1453854	106.048	ng	99
11) Acetonitrile	7.36	41	738433	19.392	ng	99
12) Acrolein	7.56	56	238592	22.793	ng	97
13) Acetone	7.81	58	1431329	100.955	ng	95
14) Trichlorofluoromethane	8.01	101	682421	20.003	ng	99
15) 2-Propanol (Isopropanol)	8.31	45	1843337	39.109	ng	100
16) Acrylonitrile	8.55	53	541897	23.154	ng	98
17) 1,1-Dichloroethene	9.03	96	370472	22.386	ng	92
18) 2-Methyl-2-Propanol (t...	9.26	59	1981781	41.989	ng	99
19) Methylene Chloride	9.25	84	366856	20.401	ng	97
20) 3-Chloro-1-propene (Al...	9.43	41	640299	22.879	ng	97
21) Trichlorotrifluoroethane	9.68	151	313148	23.180	ng	94
22) Carbon Disulfide	9.62	76	1334104	20.852	ng	99
23) trans-1,2-Dichloroethene	10.68	61	575755	22.382	ng	94
24) 1,1-Dichloroethane	10.99	63	717340	22.296	ng	100
25) Methyl tert-Butyl Ether	11.17	73	1105961	21.762	ng	99
26) Vinyl Acetate	11.27	86	424512	119.480	ng	# 95
27) 2-Butanone (MEK)	11.66	72	276424	24.137	ng	# 90
28) cis-1,2-Dichloroethene	12.24	61	568477	23.235	ng	92
29) Diisopropyl Ether	12.64	87	389365	23.284	ng	# 44
30) Ethyl Acetate	12.66	61	281487	45.740	ng	96
31) n-Hexane	12.58	57	642164	20.947	ng	99

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080904.D
 Acq On : 8 Sep 2009 12:30 pm
 Operator : LM/CC
 Sample : 25ng TO-15 LCS STD
 Misc : S20-08140906/S20-08240912
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 08 13:20:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	662176	21.912	ng	96
34) Tetrahydrofuran (THF)	13.37	72	266668	21.471	ng	94
35) Ethyl tert-Butyl Ether	13.44	87	443552	21.621	ng	92
36) 1,2-Dichloroethane	13.79	62	551696	21.760	ng	99
38) 1,1,1-Trichloroethane	14.18	97	612845	21.572	ng	98
39) Isopropyl Acetate	14.82	61	509638	43.597	ng #	75
40) 1-Butanol	14.86	56	840473	43.938	ng #	1
41) Benzene	14.88	78	1516730	20.994	ng	99
42) Carbon Tetrachloride	15.11	117	550495	22.698	ng	99
43) Cyclohexane	15.30	84	1157242	43.463	ng	95
44) tert-Amyl Methyl Ether	15.84	73	1131029	21.137	ng	97
45) 1,2-Dichloropropane	16.11	63	395415	22.151	ng	98
46) Bromodichloromethane	16.38	83	528191	22.186	ng	99
47) Trichloroethene	16.45	130	394965	22.409	ng	99
48) 1,4-Dioxane	16.49	88	324335	23.359	ng	93
49) 2,2,4-Trimethylpentane...	16.52	57	1757967	21.382	ng	98
50) Methyl Methacrylate	16.76	100	328595	49.073	ng	91
51) n-Heptane	16.89	71	416939	22.266	ng	96
52) cis-1,3-Dichloropropene	17.65	75	628578	21.433	ng	100
53) 4-Methyl-2-pentanone	17.75	58	384692	23.315	ng	99
54) trans-1,3-Dichloropropene	18.36	75	662892	23.863	ng	100
55) 1,1,2-Trichloroethane	18.60	97	364969	21.680	ng	100
58) Toluene	18.98	91	1590694	22.499	ng	99
59) 2-Hexanone	19.36	43	976085	22.590	ng	97
60) Dibromochloromethane	19.53	129	435812	24.519	ng	99
61) 1,2-Dibromoethane	19.86	107	421757	22.714	ng	99
62) n-Butyl Acetate	20.17	43	1106996	22.332	ng	98
63) n-Octane	20.28	57	360024	22.128	ng	96
64) Tetrachloroethene	20.47	166	397449	22.202	ng	100
65) Chlorobenzene	21.34	112	1049153	23.133	ng	100
66) Ethylbenzene	21.82	91	1846953	22.840	ng	100
67) m- & p-Xylenes	22.06	91	2856465	44.371	ng	98
68) Bromoform	22.15	173	348814	22.665	ng	99
69) Styrene	22.51	104	1141058	24.072	ng	98
70) o-Xylene	22.65	91	1478755	22.868	ng	97
71) n-Nonane	22.91	43	842546	21.682	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	667126	22.503	ng	98
74) Cumene	23.41	105	1829474	22.322	ng	98
75) alpha-Pinene	23.90	93	927178	21.810	ng	97
76) n-Propylbenzene	24.05	91	2283431	21.933	ng	98
77) 3-Ethyltoluene	24.18	105	1810867	23.096	ng	97
78) 4-Ethyltoluene	24.23	105	1804136	23.316	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	1524019	23.662	ng	99

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Quant Time: Sep 08 13:20:27 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.51	118	851217	25.166	ng	97
81) 2-Ethyltoluene	24.56	105	1811737	22.519	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1521456	23.142	ng	98
83) n-Decane	24.94	57	893376	22.760	ng	97
84) Benzyl Chloride	25.00	91	1484136	22.801	ng	98
85) 1,3-Dichlorobenzene	25.03	146	832995	23.443	ng	99
86) 1,4-Dichlorobenzene	25.11	146	852476	23.037	ng	99
87) sec-Butylbenzene	25.17	105	2057437	22.911	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	1832909	22.645	ng	100
89) 1,2,3-Trimethylbenzene	25.36	105	1545000	22.421	ng	98
90) 1,2-Dichlorobenzene	25.53	146	773745	23.332	ng	99
91) d-Limonene	25.53	68	647752	24.681	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	298300	25.709	ng	93
93) n-Undecane	26.46	57	968554	23.769	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	596410	25.534	ng	99
95) Naphthalene	27.73	128	2108116	23.202	ng	100
96) n-Dodecane	27.70	57	983093	21.165	ng	98
97) Hexachlorobutadiene	28.15	225	339651	24.186	ng	99
98) Cyclohexanone	22.30	55	559104	20.511	ng	95
99) tert-Butylbenzene	24.83	119	1461508	22.955	ng	99
100) n-Butylbenzene	25.86	91	1743611	23.815	ng	99

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

INITIAL CALIBRATION STANDARDS

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
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Calibration Files

0.1 =08270906.D 0.2 =08270907.D 0.5 =08270908.D 1.0 =08270909.D 5.0 =08270910.D
 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethan										
2) T Propene	2.228	1.768	1.709	1.601	1.972	1.929	1.517	1.744	1.808	12.55
3) T Dichlorodifluorom	3.863	3.277	3.356	3.114	3.233	3.191	2.448	2.845	3.166	12.86
4) T Chloromethane	2.259	2.110	2.206	2.148	2.122	2.355	1.885	1.942	2.128	7.31
5) T 1,2-Dichloro-1,1,	1.431	1.358	1.272	1.297	1.345	1.383	1.097	1.277	1.308	7.73
6) T Vinyl Chloride	2.051	1.971	1.941	1.934	2.071	2.173	1.758	2.071	1.996	6.27
7) T 1,3-Butadiene	1.682	1.372	1.440	1.385	1.522	1.671	1.310	1.529	1.489	9.22
8) T Bromomethane	1.136	1.099	1.319	1.185	1.374	1.461	1.050	1.247	1.234	11.56
9) T Chloroethane	1.107	1.073	1.099	1.012	1.155	1.210	0.956	1.132	1.093	7.33
10) T Ethanol	1.132	1.170	1.171	1.069	1.162	1.228	0.959	1.079	1.121	7.46
11) T Acetonitrile	3.731	3.312	3.106	2.811	3.118	3.268	2.579	2.992	3.115	11.10
12) T Acrolein			0.782	0.792	0.892	0.983	0.784	0.904	0.856	9.69
13) T Acetone	1.540	1.354	1.207	1.077	1.126	1.152	0.876	0.945	1.160	18.42
14) T Trichlorofluorome	2.816	2.659	2.984	2.708	2.943	3.075	2.401	2.738	2.791	7.67
15) T 2-Propanol (Isopr		4.562	4.691	4.193	3.525	4.031	2.841	3.143	3.855	18.31
16) T Acrylonitrile	1.679	1.661	1.830	1.855	2.096	2.283	1.820	2.090	1.914	11.50
17) T 1,1-Dichloroethen	1.421	1.308	1.395	1.299	1.374	1.477	1.183	1.372	1.354	6.64
18) T 2-Methyl-2-Propan	4.111	3.917	3.922	3.742	4.000	4.357	2.975		3.860	11.26
19) T Methylene Chlorid	1.613	1.543	1.556	1.402	1.474	1.542	1.220	1.418	1.471	8.46
20) T 3-Chloro-1-propen	2.522	2.248	2.221	2.068	2.365	2.545	2.033	2.310	2.289	8.19
21) T Trichlorotrifluor	1.027	1.089	1.228	1.078	1.116	1.231	0.985	1.088	1.105	7.87
22) T Carbon Disulfide	5.517	5.028	5.376	5.032	5.437	5.803	4.554	5.118	5.233	7.31
23) T trans-1,2-Dichlor	1.970	1.770	2.149	2.072	2.273	2.449	1.946	2.204	2.104	10.07
24) T 1,1-Dichloroethan	2.902	2.459	2.655	2.507	2.698	2.900	2.319	2.614	2.632	7.77
25) T Methyl tert-Butyl	4.565	3.987	4.180	3.793	4.176	4.615	3.722	4.216	4.157	7.77
26) T Vinyl Acetate	0.281	0.271	0.307	0.277	0.301	0.350	0.265	0.273	0.291	9.72
27) T 2-Butanone (MEK)	1.034	0.821	0.921	0.891	1.025	1.124	0.885	0.793	0.937	12.17
28) T cis-1,2-Dichloroe	1.967	1.808	2.117	1.898	2.118	2.271	1.796	2.034	2.001	8.27
29) T Diisopropyl Ether	1.277	1.282	1.446	1.333	1.450	1.568	1.225	1.362	1.368	8.30

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(#) Out of Range ### Number of calibration levels exceeded format ###
 R13082709.M Fri Aug 28 11:16:18 2009

MM 8/28/09
 CC 8/28/09

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08270906.D 0.2 =08270907.D 0.5 =08270908.D 1.0 =08270909.D 5.0 =08270910.D
 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
30) T Ethyl Acetate	0.448	0.403	0.525	0.494	0.567	0.608	0.467	0.515	0.503	13.03
31) T n-Hexane	2.821	2.572	2.527	2.400	2.518	2.688	2.123	2.411	2.508	8.31
32) T Chloroform	2.621	2.291	2.596	2.424	2.599	2.746	2.131	2.366	2.472	8.25
33) S 1,2-Dichloroethan	2.001	2.011	1.998	2.007	1.974	2.005	1.950	1.903	1.981	1.91
34) T Tetrahydrofuran (1.244	1.004	0.993	1.078	0.838	0.938	1.016	13.53
35) T Ethyl tert-Butyl	1.586	1.658	1.745	1.622	1.714	1.875	1.503	1.720	1.678	6.72
36) T 1,2-Dichloroethan	2.363	1.999	2.075	1.989	2.111	2.276	1.787	1.991	2.074	8.71
-----ISTD-----										
37) IR 1,4-Difluorobenze										
38) T 1,1,1-Trichloroet	0.480	0.446	0.490	0.442	0.477	0.509	0.407	0.446	0.462	7.09
39) T Isopropyl Acetate	0.195	0.173	0.194	0.181	0.203	0.217	0.170	0.188	0.190	8.12
40) T 1-Butanol	0.346	0.331	0.296	0.270	0.311	0.349	0.278	0.309	0.311	9.41
41) T Benzene	1.365	1.233	1.256	1.121	1.199	1.222	0.957	1.049	1.175	10.90
42) T Carbon Tetrachlor	0.393	0.351	0.407	0.375	0.414	0.447	0.361	0.408	0.395	7.94
43) T Cyclohexane	0.460	0.428	0.451	0.413	0.447	0.477	0.376	0.412	0.433	7.42
44) T tert-Amyl Methyl	1.007	0.839	0.936	0.847	0.884	0.919	0.722	0.809	0.870	9.98
45) T 1,2-Dichloropropa	0.281	0.276	0.295	0.284	0.309	0.323	0.260	0.295	0.290	6.85
46) T Bromodichlorometh	0.398	0.337	0.396	0.363	0.412	0.443	0.354	0.396	0.387	8.87
47) T Trichloroethene	0.275	0.288	0.284	0.265	0.297	0.323	0.262	0.299	0.287	6.94
48) T 1,4-Dioxane	0.184	0.214	0.247	0.219	0.248	0.264	0.211	0.221	0.226	11.32
49) T 2,2,4-Trimethylpe	1.457	1.313	1.417	1.291	1.396	1.451	1.138	1.236	1.337	8.46
50) T Methyl Methacryla	0.100	0.092	0.106	0.103	0.120	0.130	0.105	0.116	0.109	11.14
51) T n-Heptane	0.288	0.283	0.326	0.302	0.326	0.340	0.271	0.301	0.305	7.92
52) T cis-1,3-Dichlororop	0.447	0.427	0.497	0.448	0.507	0.549	0.443	0.499	0.477	8.79
53) T 4-Methyl-2-pentan	0.263	0.241	0.264	0.255	0.286	0.311	0.248	0.279	0.268	8.46
54) T trans-1,3-Dichlor	0.410	0.423	0.459	0.422	0.486	0.522	0.419	0.473	0.452	8.83
55) T 1,1,2-Trichloroet	0.291	0.264	0.282	0.250	0.286	0.299	0.243	0.274	0.274	7.27
-----ISTD-----										
56) IR Chlorobenzene-d5										
57) S Toluene-d8 (SS2)	2.226	2.230	2.222	2.230	2.212	2.233	2.240	2.281	2.234	0.92

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
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 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
58) T Toluene	2.610	2.363	2.446	2.293	2.488	2.606	2.090	2.354	2.406	7.15
59) T 2-Hexanone	1.630	1.345	1.430	1.385	1.501	1.658	1.320	1.497	1.471	8.51
60) T Dibromochlorometh	0.553	0.552	0.627	0.552	0.620	0.700	0.571	0.666	0.605	9.44
61) T 1,2-Dibromoethane	0.592	0.587	0.644	0.603	0.656	0.720	0.582	0.671	0.632	7.80
62) T n-Butyl Acetate	1.687	1.542	1.665	1.576	1.732	1.914	1.554	1.826	1.687	7.90
63) T n-Octane	0.626	0.513	0.579	0.531	0.562	0.598	0.478	0.542	0.554	8.61
64) T Tetrachloroethene	0.592	0.582	0.624	0.569	0.632	0.675	0.553	0.648	0.609	6.89
65) T Chlorobenzene	1.621	1.513	1.607	1.436	1.576	1.689	1.360	1.548	1.544	6.87
66) T Ethylbenzene	2.899	2.579	2.862	2.627	2.891	3.056	2.418	2.686	2.752	7.61
67) T m- & p-Xylenes	2.271	2.106	2.268	2.112	2.295	2.438	1.915	2.123	2.191	7.29
68) T Bromoform	0.492	0.457	0.478	0.478	0.541	0.620	0.515	0.610	0.524	11.78
69) T Styrene	1.632	1.460	1.546	1.485	1.715	1.865	1.499	1.706	1.613	8.77
70) T o-Xylene	2.198	2.015	2.279	2.160	2.341	2.481	1.953	2.181	2.201	7.71
71) T n-Nonane	1.410	1.318	1.387	1.274	1.384	1.428	1.123	1.258	1.323	7.72
72) T 1,1,2,2-Tetrachlo	1.015	0.938	1.067	0.934	1.062	1.136	0.904	1.017	1.009	7.87
73) S Bromofluorobenzen	0.637	0.641	0.642	0.642	0.643	0.647	0.642	0.650	0.643	0.59
74) T Cumene	2.874	2.641	2.834	2.706	2.929	3.119	2.483	2.729	2.790	6.96
75) T alpha-Pinene	1.526	1.380	1.459	1.356	1.496	1.609	1.296	1.454	1.447	6.95
76) T n-Propylbenzene	3.766	3.311	3.648	3.441	3.793	3.970	3.101	3.318	3.543	8.37
77) T 3-Ethyltoluene	2.849	2.433	2.664	2.535	2.797	2.980	2.418	2.673	2.669	7.52
78) T 4-Ethyltoluene	2.815	2.470	2.714	2.522	2.799	2.947	2.302	2.499	2.634	8.26
79) T 1,3,5-Trimethylbe	2.236	2.054	2.162	2.148	2.315	2.470	1.966	2.186	2.192	7.05
80) T alpha-Methylstyre	0.955	0.981	1.127	1.071	1.260	1.400	1.133	1.282	1.151	13.37
81) T 2-Ethyltoluene	2.851	2.561	2.758	2.688	2.892	3.058	2.430	2.668	2.738	7.21
82) T 1,2,4-Trimethylbe	2.268	2.059	2.284	2.180	2.409	2.549	1.998	2.154	2.238	8.09
83) T n-Decane	1.368	1.216	1.412	1.358	1.437	1.477	1.154	1.267	1.336	8.47
84) T Benzyl Chloride	2.330	2.000	2.201	2.076	2.360	2.541	2.008	2.208	2.215	8.52
85) T 1,3-Dichlorobenze	1.322	1.095	1.217	1.161	1.231	1.342	1.086	1.220	1.209	7.75
86) T 1,4-Dichlorobenze	1.282	1.153	1.287	1.189	1.295	1.421	1.147	1.303	1.260	7.30
87) T sec-Butylbenzene	3.081	2.880	3.153	3.010	3.269	3.448	2.715	2.896	3.057	7.66

Response Factor Report GCMS13

Method : J:\MS13\METHODS\R13082709.M (RTE Integrator)
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Calibration Files

0.1 =08270906.D 0.2 =08270907.D 0.5 =08270908.D 1.0 =08270909.D 5.0 =08270910.D
 25 =08270911.D 50 =08270912.D 100 =08270913.D

Compound	0.1	0.2	0.5	1.0	5.0	25	50	100	Avg	%RSD
88) T 4-Isopropyltoluen	2.670	2.592	2.879	2.705	3.020	3.160	2.464	2.549	2.755	8.82
89) T 1,2,3-Trimethylbe	2.424	2.299	2.431	2.277	2.495	2.594	2.045	2.198	2.345	7.51
90) T 1,2-Dichlorobenze	1.100	1.053	1.174	1.102	1.220	1.287	1.010	1.085	1.129	8.10
91) T d-Limonene	0.748	0.829	0.885	0.865	0.986	1.066	0.844	0.923	0.893	11.02
92) T 1,2-Dibromo-3-Chl	0.324	0.298	0.364	0.362	0.437	0.499	0.407	0.469	0.395	17.81
93) T n-Undecane	1.330	1.231	1.458	1.398	1.548	1.573	1.230	1.327	1.387	9.50
94) T 1,2,4-Trichlorobe	0.701	0.595	0.804	0.760	0.877	0.957	0.772	0.892	0.795	14.51
95) T Naphthalene	2.936	2.620	3.084	2.996	3.377	3.682	2.924	3.122	3.093	10.34
96) T n-Dodecane	1.462	1.440	1.731	1.633	1.792	1.746	1.375	1.469	1.581	10.31
97) T Hexachlorobutadie	0.458	0.435	0.473	0.453	0.508	0.534	0.445	0.518	0.478	7.80
98) T Cyclohexanone	1.009	0.855	0.876	0.835	0.946	1.067	0.855	0.979	0.928	9.17
99) T tert-Butylbenzene	2.140	2.013	2.273	2.146	2.325	2.453	1.922	2.065	2.167	8.06
100) T n-Butylbenzene	2.355	2.233	2.625	2.46	2.744	2.867	2.244	2.407	2.492	9.31

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-08240906**

20ng/L Std. ID: **S20-07310904**

200ng/L Std. ID: **S20-08240903**

Dilution Factors:

5 50 250

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)									
		200ng/L	20ng/L	4ng/L		4	4	20	20	20	200	200	200		
		0.025	0.05	0.025		0.050	0.25	0.125	0.25	0.50	0.1ng	0.2ng	0.5ng	1ng	5ng
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		

MM 8/28/09

CC 8/28/09

**Primary Source Standards Concentrations
(Working & Initial Calibration)**

4ng/L Std. ID: S20-08240906
20ng/L Std. ID:

200ng/L Std. ID:
Dilution Factors:

Compounds	Source Std. mg/m ³	Primary Working Standards			Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)							
		5	50	250		4		20	20	20	200	200	200
		200ng/L	20ng/L	4ng/L		Injection (L):	0.025	0.050	0.025	0.05	0.25	0.125	0.25
				ICAL Points:	0.1ng	0.2ng	0.5ng	1ng	5ng	25ng	50ng	100ng	
Bromoform	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
Styrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
o-Xylene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Nonane	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
1,1,2,2-Tetrachloroethane	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
Cumene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
alpha-Pinene	1.01	202	20.2	4.04		0.101	0.202	0.505	1.01	5.05	25.3	50.5	101
n-Propylbenzene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
3-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
4-Ethyltoluene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,3,5-Trimethylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
alpha-Methylstyrene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
2-Ethyltoluene	1.05	210	21.0	4.20		0.105	0.210	0.525	1.05	5.25	26.3	52.5	105
1,2,4-Trimethylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Decane	1.08	216	21.6	4.32		0.108	0.216	0.540	1.08	5.40	27.0	54.0	108
Benzyl Chloride	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
1,3-Dichlorobenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,4-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
sec-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
p-Isopropyltoluene	1.03	206	20.6	4.12		0.103	0.206	0.515	1.03	5.15	25.8	51.5	103
1,2,3-Trimethylbenzene	1.07	214	21.4	4.28		0.107	0.214	0.535	1.07	5.35	26.8	53.5	107
1,2-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
d-Limonene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
chloropropane	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
n-Undecane	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48		0.112	0.224	0.560	1.12	5.60	28.0	56.0	112
Naphthalene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Dodecane	0.99	198	19.8	3.96		0.099	0.198	0.495	0.990	4.95	24.8	49.5	99.0
Hexachloro-1,3-butadiene	1.10	220	22.0	4.40		0.110	0.220	0.550	1.10	5.50	27.5	55.0	110
Methacrylonitrile	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
Cyclohexanone	0.98	196	19.6	3.92		0.098	0.196	0.490	0.980	4.90	24.5	49.0	98.0
tert-Butylbenzene	1.06	212	21.2	4.24		0.106	0.212	0.530	1.06	5.30	26.5	53.0	106
n-Butylbenzene	1.09	218	21.8	4.36		0.109	0.218	0.545	1.09	5.45	27.3	54.5	109

*Enter Information in the Solid Shaded Areas ONLY.

LM 8/3/09

*CC
8-31-09*

Calibration Status Report GCMS13

Method Path : J:\MS13\METHODS\
 Method File : R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009
 Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2009_08\27\08270906.D
2	0.2	0	25	J:\MS13\DATA\2009_08\27\08270907.D
3	0.5	1	25	J:\MS13\DATA\2009_08\27\08270908.D
4	1.0	1	25	J:\MS13\DATA\2009_08\27\08270909.D
5	5.0	5	25	J:\MS13\DATA\2009_08\27\08270910.D
6	25	27	25	J:\MS13\DATA\2009_08\27\08270911.D
7	50	54	25	J:\MS13\DATA\2009_08\27\08270912.D
8	100	107	25	J:\MS13\DATA\2009_08\27\08270913.D

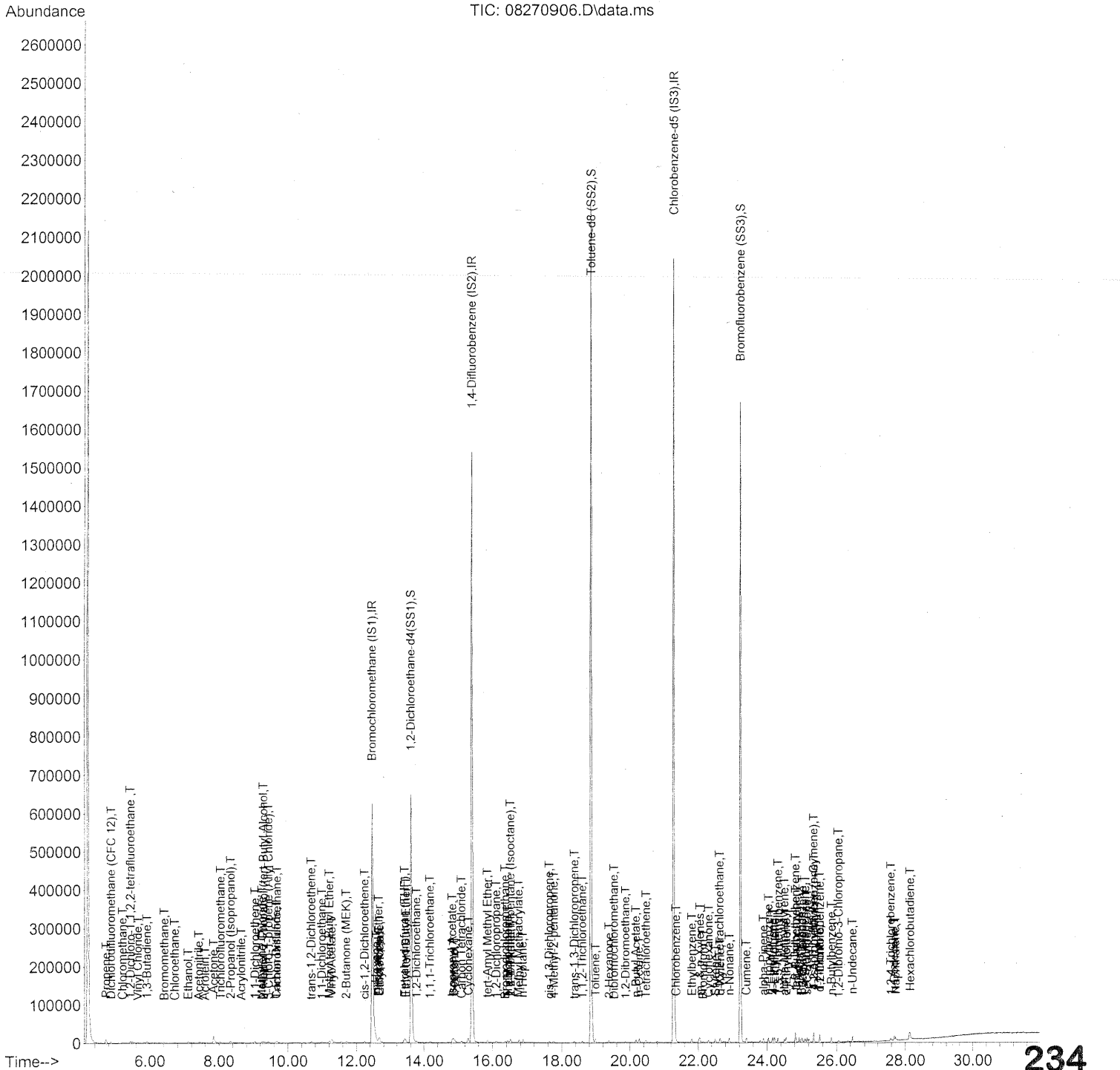
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Aug 28 05:59 2009	Aug 27 20:42 2009	27 Aug 2009 15:31
2	0.2	Aug 28 06:00 2009	Aug 27 20:45 2009	27 Aug 2009 16:11
3	0.5	Aug 28 06:00 2009	Aug 28 05:44 2009	27 Aug 2009 16:52
4	1.0	Aug 28 06:00 2009	Aug 28 05:46 2009	27 Aug 2009 17:32
5	5.0	Aug 28 06:01 2009	Aug 28 05:49 2009	27 Aug 2009 18:13
6	25	Aug 28 06:01 2009	Aug 28 05:51 2009	27 Aug 2009 18:53
7	50	Aug 28 06:01 2009	Aug 28 05:54 2009	27 Aug 2009 19:34
8	100	Aug 28 06:02 2009	Aug 28 05:57 2009	27 Aug 2009 20:14

R13082709.M Fri Aug 28 06:14:23 2009

LM 8/28/09
CC 8/28/09

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270906.D
Acq On : 27 Aug 2009 15:31
Operator : WA/CC
Sample : 0.1ng TO-15 ICAL
Misc : S20-08140906/S20-08240906
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
cc 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	345606	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.41	114	1747755	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	850515	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	691489	23.020	ng	-0.01
Spiked Amount	25.000		Recovery	=	92.08%	✓
57) Toluene-d8 (SS2)	18.85	98	1893630	25.481	ng	0.00
Spiked Amount	25.000		Recovery	=	101.92%	✓
73) Bromofluorobenzene (SS3)	23.23	174	541883	27.650	ng	0.00
Spiked Amount	25.000		Recovery	=	110.60%	✓

Target Compounds

						Qvalue
2) Propene	4.72	42	3295	0.139	ng	98
3) Dichlorodifluoromethan...	4.88	85	5608	0.145	ng	# 88
4) Chloromethane	5.21	50	3123	0.120	ng	74
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	2097	0.133	ng	73
6) Vinyl Chloride	5.65	62	2864	0.114	ng	# 49
7) 1,3-Butadiene	5.92	54	2790	0.156	ng	90
8) Bromomethane	6.42	94	1602	0.105	ng	# 59
9) Chloroethane	6.72	64	1545	0.106	ng	76
10) Ethanol	7.10	45	8140	0.541	ng	# 66
11) Acetonitrile	7.42	41	5415	0.123	ng	# 25
12) Acrolein	7.59	56	602	0.053	ng	# 54
13) Acetone	7.85	58	11708	0.825	ng	95
14) Trichlorofluoromethane	8.05	101	4087	0.117	ng	98
15) 2-Propanol (Isopropanol)	8.34	45	14347	0.257	ng	80
16) Acrylonitrile	8.65	53	2460	0.096	ng	# 9
17) 1,1-Dichloroethene	9.05	96	2161	0.133	ng	# 84
18) 2-Methyl-2-Propanol (t...	9.29	59	11481m	0.232	ng	
19) Methylene Chloride	9.25	84	2386	0.125	ng	97
20) 3-Chloro-1-propene (Al...	9.43	41	3765	0.103	ng	84
21) Trichlorotrifluoroethane	9.68	151	1561	0.123	ng	# 1
22) Carbon Disulfide	9.66	76	8161	0.122	ng	84
23) trans-1,2-Dichloroethene	10.68	61	2887	0.100	ng	78
24) 1,1-Dichloroethane	10.98	63	4252	0.122	ng	89
25) Methyl tert-Butyl Ether	11.20	73	6878	0.128	ng	93
26) Vinyl Acetate	11.27	86	1953	0.677	ng	# 30
27) 2-Butanone (MEK)	11.70	72	1572	0.123	ng	# 87
28) cis-1,2-Dichloroethene	12.24	61	2964	0.111	ng	80
29) Diisopropyl Ether	12.66	87	1889	0.110	ng	# 6
30) Ethyl Acetate	12.69	61	1319	0.198	ng	97
31) n-Hexane	12.58	57	4251	0.125	ng	

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	3877	0.129	ng	93
34) Tetrahydrofuran (THF)	13.42	72	4140	0.303	ng #	86
35) Ethyl tert-Butyl Ether	13.46	87	2258	0.102	ng #	76
36) 1,2-Dichloroethane	13.78	62	3463	0.126	ng	87
38) 1,1,1-Trichloroethane	14.17	97	3520	0.119	ng	82
39) Isopropyl Acetate	14.83	61	2853	0.220	ng #	58
40) 1-Butanol	14.91	56	5004	0.221	ng #	39
41) Benzene	14.87	78	10112	0.132	ng	94
42) Carbon Tetrachloride	15.10	117	2971	0.121	ng	85
43) Cyclohexane	15.30	84	6910	0.246	ng	95
44) tert-Amyl Methyl Ether	15.86	73	7323	0.127	ng	94
45) 1,2-Dichloropropane	16.11	63	2060	0.107	ng	93
46) Bromodichloromethane	16.37	83	3004	0.119	ng	93
47) Trichloroethene	16.44	130	2040	0.118	ng	97
48) 1,4-Dioxane	16.52	88	1375	0.094	ng	79
49) 2,2,4-Trimethylpentane...	16.52	57	10591	0.117	ng	96
50) Methyl Methacrylate	16.76	100	1493	0.211	ng	93
51) n-Heptane	16.87	71	2136	0.104	ng	83
52) cis-1,3-Dichloropropene	17.65	75	3093	0.097	ng	99
53) 4-Methyl-2-pentanone	17.77	58	2022	0.109	ng	87
54) trans-1,3-Dichloropropene	18.36	75	3156	0.104	ng	91
55) 1,1,2-Trichloroethane	18.59	97	2137	0.127	ng	86
58) Toluene	18.98	91	9590	0.131	ng	98
59) 2-Hexanone	19.38	43	6099	0.126	ng	87
60) Dibromochloromethane	19.52	129	2164	0.125	ng	98
61) 1,2-Dibromoethane	19.86	107	2135	0.117	ng	97
62) n-Butyl Acetate	20.17	43	6315	0.110	ng #	82
63) n-Octane	20.26	57	2279	0.129	ng	94
64) Tetrachloroethene	20.47	166	2055	0.122	ng	96
65) Chlorobenzene	21.35	112	5957	0.132	ng	97
66) Ethylbenzene	21.82	91	10455	0.125	ng	100
67) m- & p-Xylenes	22.05	91	16072	0.238	ng	99
68) Bromoform	22.14	173	1723	0.120	ng	71
69) Styrene	22.51	104	5939	0.122	ng	95
70) o-Xylene	22.65	91	7925	0.117	ng	93
71) n-Nonane	22.91	43	5083	0.113	ng #	77
72) 1,1,2,2-Tetrachloroethane	22.62	83	3696	0.123	ng	98
74) Cumene	23.40	105	10070	0.118	ng	99
75) alpha-Pinene	23.90	93	5243	0.120	ng	80
76) n-Propylbenzene	24.05	91	13198	0.123	ng	94
77) 3-Ethyltoluene	24.17	105	10566	0.129	ng	98
78) 4-Ethyltoluene	24.22	105	10439	0.132	ng	99
79) 1,3,5-Trimethylbenzene	24.32	105	8293	0.124	ng	99

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270906.D
 Acq On : 27 Aug 2009 15:31
 Operator : WA/CC
 Sample : 0.1ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:42:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

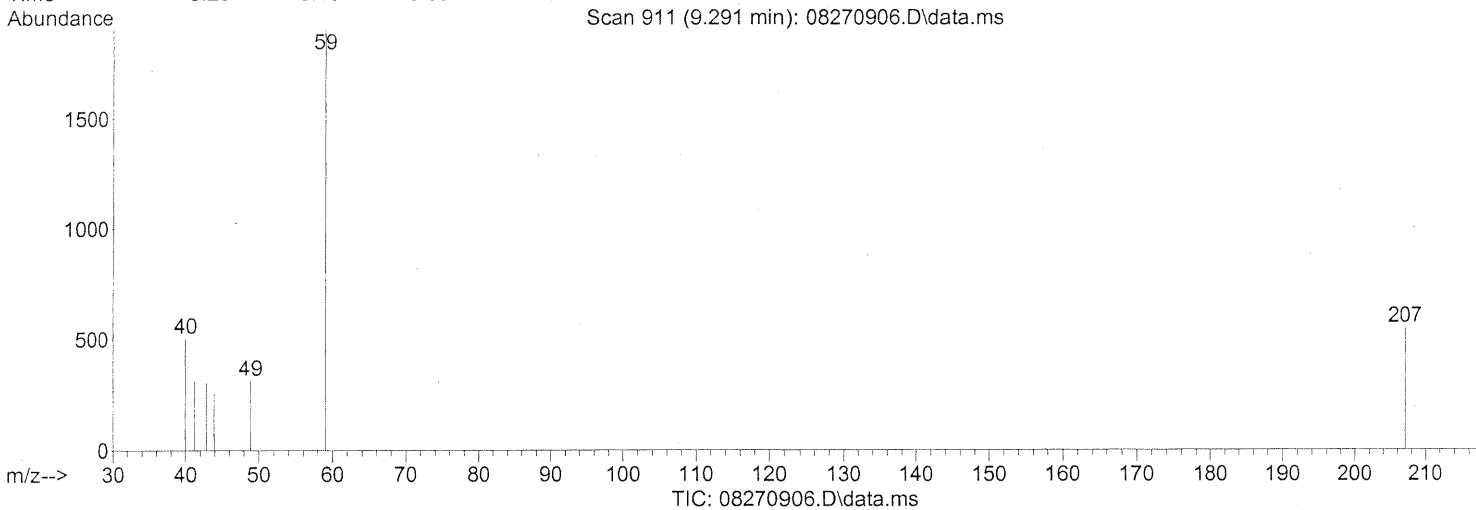
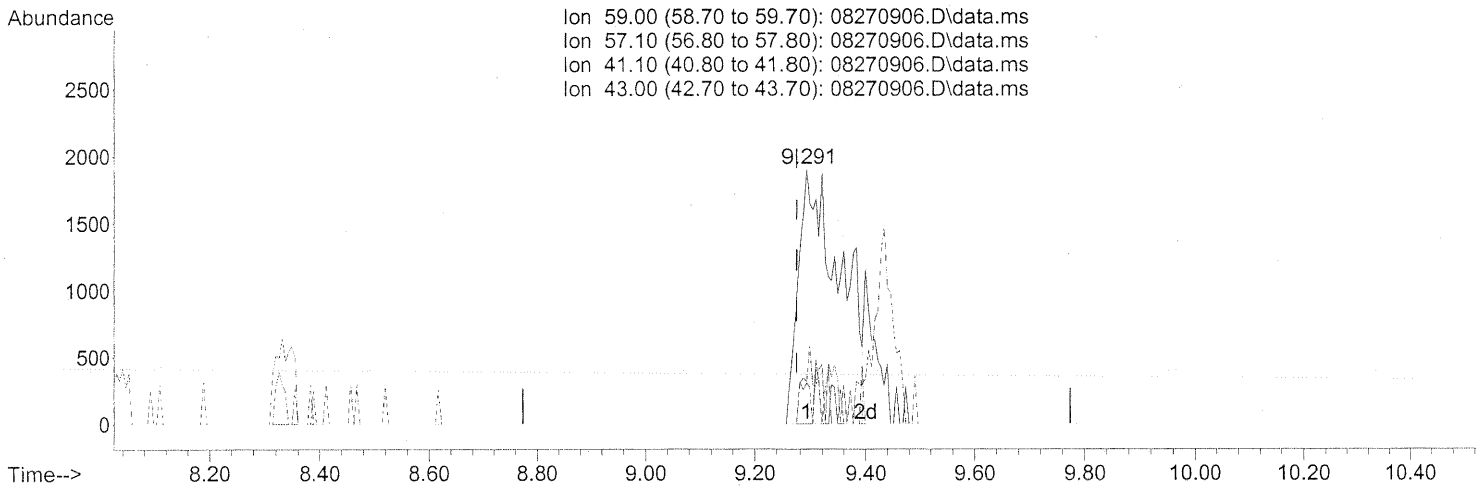
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.50	118	3476	0.097	ng	94
81) 2-Ethyltoluene	24.56	105	10184	0.124	ng	94
82) 1,2,4-Trimethylbenzene	24.82	105	8179	0.120	ng	97
83) n-Decane	24.93	57	5026	0.113	ng	95
84) Benzyl Chloride	25.00	91	8718	0.137	ng	96
85) 1,3-Dichlorobenzene	25.03	146	4903	0.142	ng	95
86) 1,4-Dichlorobenzene	25.10	146	4624	0.126	ng	96
87) sec-Butylbenzene	25.15	105	11109	0.121	ng	97
88) 4-Isopropyltoluene (p-...	25.35	119	9355	0.114	ng	96
89) 1,2,3-Trimethylbenzene	25.35	105	8824	0.127	ng	99
90) 1,2-Dichlorobenzene	25.53	146	3966	0.121	ng	94
91) d-Limonene	25.52	68	2775	0.096	ng	82
92) 1,2-Dibromo-3-Chloropr...	26.06	157	1212	0.108	ng	# 70
93) n-Undecane	26.46	57	4933	0.105	ng	95
94) 1,2,4-Trichlorobenzene	27.58	180	2671	0.119	ng	95
95) Naphthalene	27.73	128	10587	0.114	ng	98
96) n-Dodecane	27.69	57	4925	0.090	ng	94
97) Hexachlorobutadiene	28.14	225	1714	0.120	ng	88
98) Cyclohexanone	22.32	55	3365	0.111	ng	96
99) tert-Butylbenzene	24.83	119	7717	0.117	ng	96
100) n-Butylbenzene	25.86	91	8734	0.115	ng	99

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270906.D
Acq On : 27 Aug 2009 15:31
Operator : WA/CC
Sample : 0.1ng TO-15 ICAL
Misc : S20-08140906/S20-08240906
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:40:49 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

9.291min (+0.017) 0.20ng

response 9815

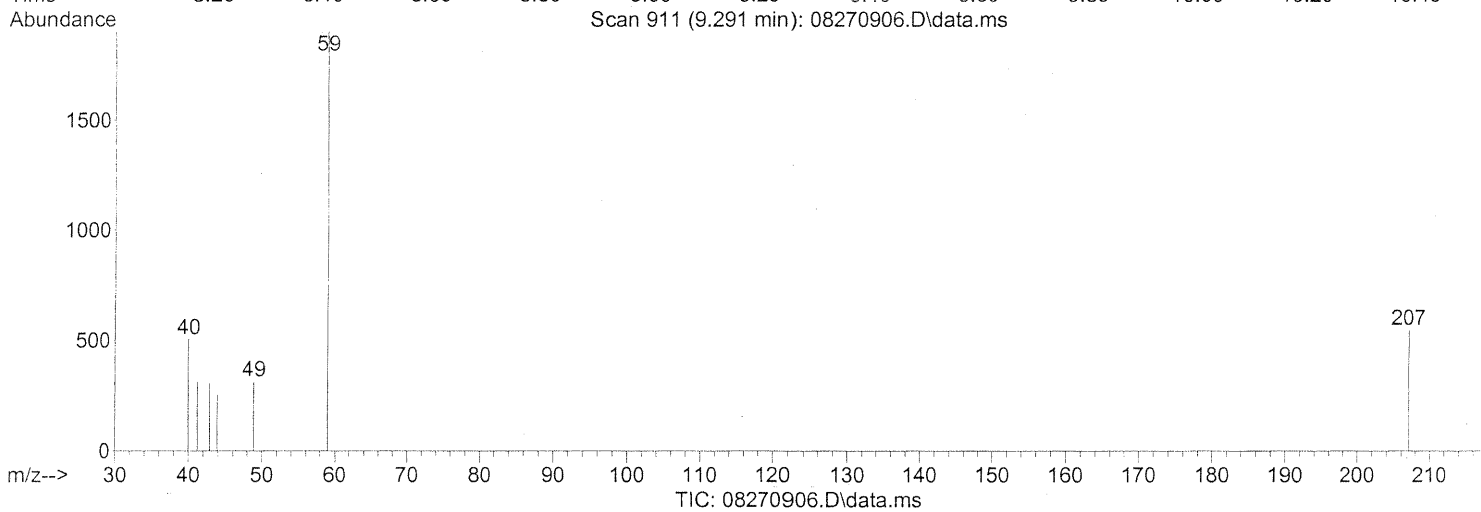
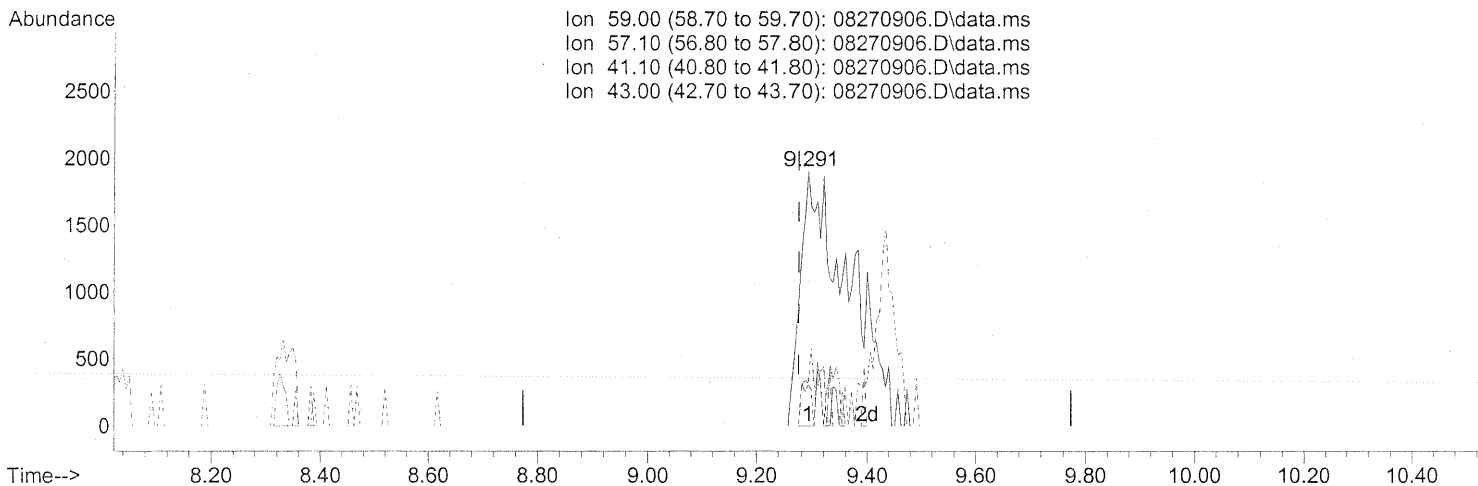
Ion	Exp%	Act%
59.00	100	100
57.10	10.20	2.84
41.10	20.40	10.37
43.00	14.90	2.64

SP

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270906.D
Acq On : 27 Aug 2009 15:31
Operator : WA/CC
Sample : 0.1ng TO-15 ICAL
Misc : S20-08140906/S20-08240906
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:40:49 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



(18) 2-Methyl-2-Propanol (tert-Butyl Alcohol (T))

9.291min (+0.017) 0.23ng m

response 11481

Ion	Exp%	Act%
59.00	100	100
57.10	10.20	2.43
41.10	20.40	8.87
43.00	14.90	2.26

SP -> IC

WA 8/28/09

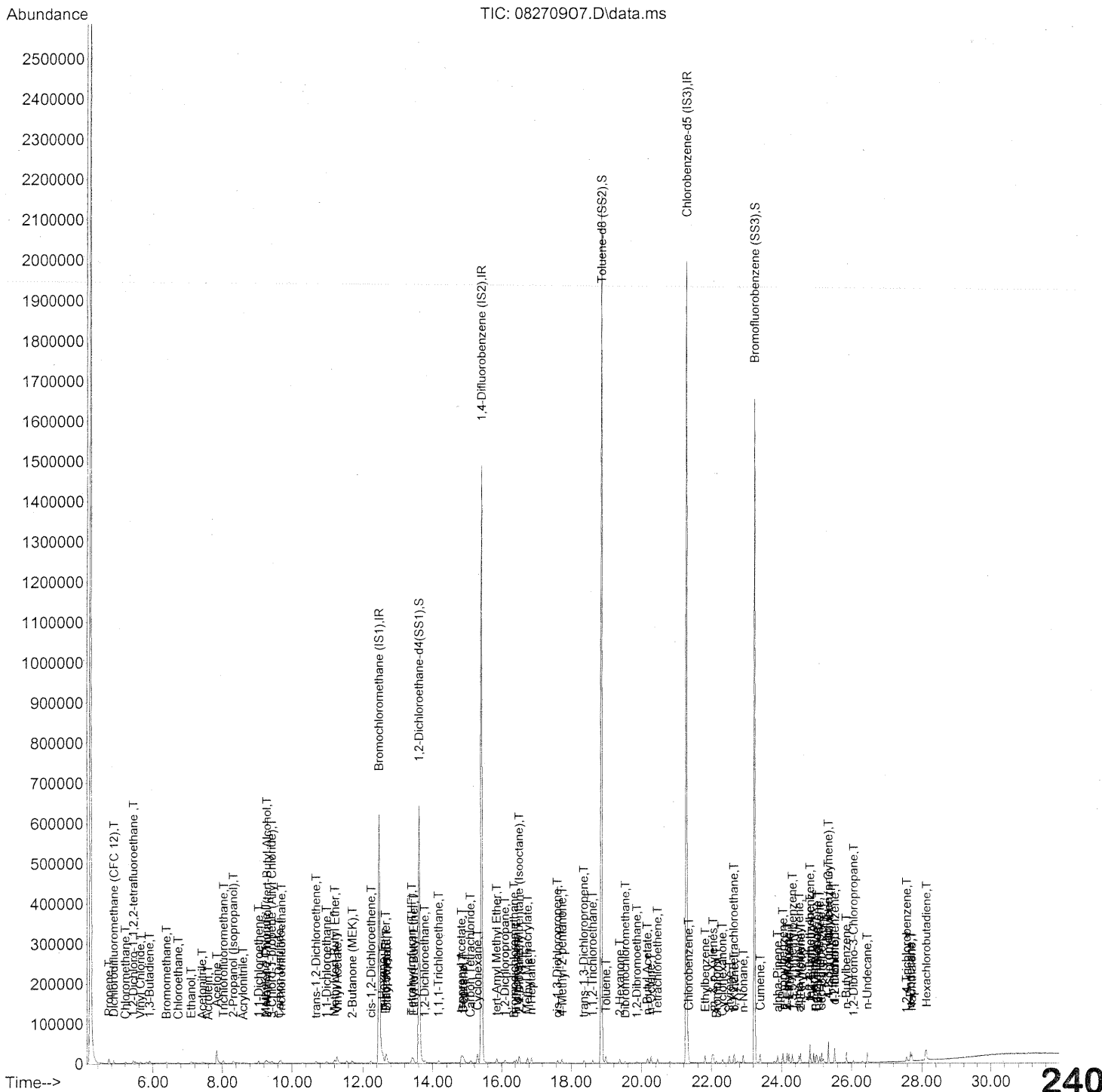
CC 8/28/09

— R 8/31/09

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
CC 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	340975	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.41	114	1701721	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	833637	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	685827	23.141	ng	-0.01
Spiked Amount	25.000		Recovery	=	92.56%	✓
57) Toluene-d8 (SS2)	18.85	98	1859118	25.523	ng	0.00
Spiked Amount	25.000		Recovery	=	102.08%	✓
73) Bromofluorobenzene (SS3)	23.23	174	534463	27.823	ng	0.00
Spiked Amount	25.000		Recovery	=	111.28%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.72	42	5160	0.221	ng	95
3) Dichlorodifluoromethan...	4.87	85	9386	0.245	ng	94
4) Chloromethane	5.20	50	5755	0.224	ng	93
5) 1,2-Dichloro-1,1,2,2-t...	5.43	135	3928	0.253	ng	90
6) Vinyl Chloride	5.64	62	5431	0.220	ng	91
7) 1,3-Butadiene	5.90	54	4492	0.254	ng	93
8) Bromomethane	6.39	94	3059	0.204	ng	82
9) Chloroethane	6.73	64	2955	0.206	ng	81
10) Ethanol	7.10	45	16601	1.119	ng	91
11) Acetonitrile	7.42	41	9487	0.218	ng	# 27
12) Acrolein	7.59	56	1475	0.131	ng	92
13) Acetone	7.84	58	20320	1.452	ng	88
14) Trichlorofluoromethane	8.03	101	7617	0.220	ng	100
15) 2-Propanol (Isopropanol)	8.32	45	23522	0.428	ng	83
16) Acrylonitrile	8.60	53	4804	0.190	ng	98
17) 1,1-Dichloroethene	9.05	96	3926	0.245	ng	# 84
18) 2-Methyl-2-Propanol (t...	9.29	59	21583	0.442	ng	89
19) Methylene Chloride	9.25	84	4504	0.240	ng	99
20) 3-Chloro-1-propene (Al...	9.43	41	6623	0.183	ng	87
21) Trichlorotrifluoroethane	9.70	151	3267	0.260	ng	94
22) Carbon Disulfide	9.64	76	14675	0.221	ng	89
23) trans-1,2-Dichloroethene	10.68	61	5119	0.180	ng	# 69
24) 1,1-Dichloroethane	10.98	63	7110	0.206	ng	96
25) Methyl tert-Butyl Ether	11.21	73	11856	0.224	ng	99
26) Vinyl Acetate	11.28	86	3710	1.303	ng	# 58
27) 2-Butanone (MEK)	11.71	72	2463	0.195	ng	# 47
28) cis-1,2-Dichloroethene	12.24	61	5377	0.203	ng	# 75
29) Diisopropyl Ether	12.65	87	3742	0.221	ng	# 19
30) Ethyl Acetate	12.68	61	2340	0.355	ng	87
31) n-Hexane	12.58	57	7647	0.227	ng	241

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	6687	0.226	ng	98
34) Tetrahydrofuran (THF)	13.40	72	5125	0.381	ng	98
35) Ethyl tert-Butyl Ether	13.46	87	4658	0.213	ng	95
36) 1,2-Dichloroethane	13.78	62	5779	0.213	ng	91
38) 1,1,1-Trichloroethane	14.17	97	6372	0.221	ng	98
39) Isopropyl Acetate	14.83	61	4936	0.391	ng	# 55
40) 1-Butanol	14.89	56	9325	0.422	ng	# 45
41) Benzene	14.87	78	17799	0.238	ng	98
42) Carbon Tetrachloride	15.09	117	5161	0.216	ng	96
43) Cyclohexane	15.29	84	12537	0.457	ng	95
44) tert-Amyl Methyl Ether	15.85	73	11885	0.212	ng	96
45) 1,2-Dichloropropane	16.10	63	3944	0.210	ng	91
46) Bromodichloromethane	16.37	83	4951	0.201	ng	100
47) Trichloroethene	16.44	130	4154	0.246	ng	97
48) 1,4-Dioxane	16.53	88	3119	0.218	ng	94
49) 2,2,4-Trimethylpentane...	16.52	57	18593	0.211	ng	99
50) Methyl Methacrylate	16.77	100	2677	0.389	ng	90
51) n-Heptane	16.88	71	4079	0.203	ng	96
52) cis-1,3-Dichloropropene	17.64	75	5760	0.185	ng	98
53) 4-Methyl-2-pentanone	17.76	58	3609	0.201	ng	99
54) trans-1,3-Dichloropropene	18.35	75	6333	0.214	ng	96
55) 1,1,2-Trichloroethane	18.59	97	3778	0.230	ng	92
58) Toluene	18.98	91	17023	0.238	ng	98
59) 2-Hexanone	19.37	43	9868	0.207	ng	99
60) Dibromochloromethane	19.53	129	4235	0.250	ng	95
61) 1,2-Dibromoethane	19.86	107	4153	0.231	ng	100
62) n-Butyl Acetate	20.17	43	11310	0.202	ng	89
63) n-Octane	20.26	57	3664	0.212	ng	97
64) Tetrachloroethene	20.46	166	3957	0.239	ng	96
65) Chlorobenzene	21.34	112	10897	0.246	ng	98
66) Ethylbenzene	21.82	91	18233	0.223	ng	97
67) m- & p-Xylenes	22.05	91	29210	0.441	ng	97
68) Bromoform	22.15	173	3138	0.223	ng	95
69) Styrene	22.51	104	10416	0.218	ng	98
70) o-Xylene	22.65	91	14247	0.215	ng	99
71) n-Nonane	22.91	43	9314	0.211	ng	93
72) 1,1,2,2-Tetrachloroethane	22.63	83	6695	0.227	ng	94
74) Cumene	23.40	105	18142	0.216	ng	99
75) alpha-Pinene	23.90	93	9293	0.216	ng	89
76) n-Propylbenzene	24.05	91	22743	0.216	ng	97
77) 3-Ethyltoluene	24.17	105	17686	0.221	ng	98
78) 4-Ethyltoluene	24.22	105	17956	0.231	ng	93
79) 1,3,5-Trimethylbenzene	24.31	105	14932	0.228	ng	96

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270907.D
 Acq On : 27 Aug 2009 16:11
 Operator : WA/CC
 Sample : 0.2ng TO-15 ICAL
 Misc : S20-08140906/S20-08240906
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 27 20:45:29 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	7003	0.200	ng	99
81) 2-Ethyltoluene	24.56	105	17935	0.222	ng	97
82) 1,2,4-Trimethylbenzene	24.82	105	14553	0.218	ng	100
83) n-Decane	24.93	57	8758	0.202	ng	94
84) Benzyl Chloride	25.00	91	14670	0.234	ng	96
85) 1,3-Dichlorobenzene	25.02	146	7963	0.236	ng	96
86) 1,4-Dichlorobenzene	25.10	146	8150	0.226	ng	93
87) sec-Butylbenzene	25.15	105	20362	0.226	ng	96
88) 4-Isopropyltoluene (p-...	25.35	119	17804	0.221	ng	95
89) 1,2,3-Trimethylbenzene	25.35	105	16408	0.241	ng	94
90) 1,2-Dichlorobenzene	25.53	146	7447	0.232	ng	99
91) d-Limonene	25.53	68	6028	0.212	ng	92
92) 1,2-Dibromo-3-Chloropr...	26.06	157	2189	0.199	ng	# 82
93) n-Undecane	26.45	57	8949	0.194	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	4448	0.202	ng	91
95) Naphthalene	27.73	128	18518	0.204	ng	98
96) n-Dodecane	27.69	57	9509	0.177	ng	97
97) Hexachlorobutadiene	28.14	225	3188	0.228	ng	99
98) Cyclohexanone	22.31	55	5589	0.188	ng	94
99) tert-Butylbenzene	24.82	119	14229	0.220	ng	97
100) n-Butylbenzene	25.86	91	16229	0.218	ng	98

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

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

LM 8/28/09
CC 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.47	130	345051	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.41	114	1706332	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	833135	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.61	65	689482	22.990	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.96%	✓
57) Toluene-d8 (SS2)	18.85	98	1851026	25.427	ng	0.00
Spiked Amount	25.000		Recovery	=	101.72%	✓
73) Bromofluorobenzene (SS3)	23.23	174	534967	27.866	ng	0.00
Spiked Amount	25.000		Recovery	=	111.48%	✓

Target Compounds

						Qvalue
2) Propene	4.70	42	12619	0.533	ng	97
3) Dichlorodifluoromethan...	4.86	85	24316	0.628	ng	99
4) Chloromethane	5.18	50	15225	0.586	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.42	135	9302	0.592	ng	97
6) Vinyl Chloride	5.62	62	13528	0.542	ng	96
7) 1,3-Butadiene	5.90	54	11921	0.666	ng	94
8) Bromomethane	6.38	94	9283	0.610	ng	97
9) Chloroethane	6.71	64	7657	0.527	ng	98
10) Ethanol	7.06	45	42023m	2.800	ng	
11) Acetonitrile	7.39	41	22509	0.512	ng	98
12) Acrolein	7.58	56	5829	0.510	ng	89
13) Acetone	7.82	58	45815	3.235	ng	96
14) Trichlorofluoromethane	8.02	101	21625	0.618	ng	92
15) 2-Propanol (Isopropanol)	8.29	45	61189	1.100	ng	90
16) Acrylonitrile	8.57	53	13383	0.523	ng	91
17) 1,1-Dichloroethene	9.04	96	10592	0.652	ng	88
18) 2-Methyl-2-Propanol (t...	9.24	59	54672	1.107	ng	92
19) Methylene Chloride	9.24	84	11486	0.604	ng	94
20) 3-Chloro-1-propene (Al...	9.43	41	16557	0.452	ng	93
21) Trichlorotrifluoroethane	9.68	151	9319	0.733	ng	# 83
22) Carbon Disulfide	9.63	76	39699	0.592	ng	98
23) trans-1,2-Dichloroethene	10.68	61	15719	0.547	ng	90
24) 1,1-Dichloroethane	10.98	63	19419	0.557	ng	99
25) Methyl tert-Butyl Ether	11.19	73	31441	0.587	ng	99
26) Vinyl Acetate	11.27	86	10642	3.693	ng	# 86
27) 2-Butanone (MEK)	11.68	72	6992	0.547	ng	# 81
28) cis-1,2-Dichloroethene	12.23	61	15924	0.595	ng	93
29) Diisopropyl Ether	12.65	87	10676	0.624	ng	# 23
30) Ethyl Acetate	12.67	61	7755	1.164	ng	93
31) n-Hexane	12.58	57	19007	0.558	ng	245

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.68	83	19170	0.639	ng	99
34) Tetrahydrofuran (THF)	13.40	72	9447	0.693	ng	94
35) Ethyl tert-Butyl Ether	13.45	87	12406	0.560	ng	98
36) 1,2-Dichloroethane	13.78	62	15180	0.554	ng	100
38) 1,1,1-Trichloroethane	14.17	97	17572	0.607	ng	98
39) Isopropyl Acetate	14.83	61	13901	1.098	ng #	68
40) 1-Butanol	14.88	56	21001	0.948	ng #	1
41) Benzene	14.87	78	45429	0.606	ng	98
42) Carbon Tetrachloride	15.09	117	15004	0.628	ng	99
43) Cyclohexane	15.29	84	33280	1.211	ng	94
44) tert-Amyl Methyl Ether	15.85	73	33208	0.589	ng	97
45) 1,2-Dichloropropane	16.09	63	10583	0.562	ng	98
46) Bromodichloromethane	16.37	83	14579	0.590	ng	95
47) Trichloroethene	16.44	130	10279	0.607	ng	99
48) 1,4-Dioxane	16.51	88	9005	0.628	ng	98
49) 2,2,4-Trimethylpentane...	16.51	57	50304	0.569	ng	99
50) Methyl Methacrylate	16.76	100	7723	1.118	ng	98
51) n-Heptane	16.88	71	11807	0.586	ng	96
52) cis-1,3-Dichloropropene	17.65	75	16791	0.538	ng	99
53) 4-Methyl-2-pentanone	17.76	58	9904	0.549	ng	93
54) trans-1,3-Dichloropropene	18.36	75	17249	0.581	ng	98
55) 1,1,2-Trichloroethane	18.59	97	10107	0.614	ng	97
58) Toluene	18.98	91	44023	0.615	ng	97
59) 2-Hexanone	19.36	43	26209	0.551	ng	100
60) Dibromochloromethane	19.53	129	12008	0.709	ng	97
61) 1,2-Dibromoethane	19.86	107	11379	0.634	ng	96
62) n-Butyl Acetate	20.17	43	30526	0.544	ng	94
63) n-Octane	20.28	57	10325	0.597	ng	99
64) Tetrachloroethene	20.46	166	10600	0.640	ng	99
65) Chlorobenzene	21.34	112	28918	0.653	ng	100
66) Ethylbenzene	21.82	91	50554	0.618	ng	99
67) m- & p-Xylenes	22.04	91	78614	1.188	ng	99
68) Bromoform	22.14	173	8209	0.584	ng	99
69) Styrene	22.50	104	27564	0.576	ng	98
70) o-Xylene	22.65	91	40245	0.607	ng	99
71) n-Nonane	22.91	43	24499	0.556	ng	99
72) 1,1,2,2-Tetrachloroethane	22.63	83	19021	0.646	ng	96
74) Cumene	23.41	105	48639	0.580	ng	99
75) alpha-Pinene	23.90	93	24559	0.572	ng	99
76) n-Propylbenzene	24.05	91	62613	0.594	ng	98
77) 3-Ethyltoluene	24.17	105	48379	0.604	ng	100
78) 4-Ethyltoluene	24.23	105	49300	0.635	ng	98
79) 1,3,5-Trimethylbenzene	24.31	105	39271	0.600	ng	99

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:44:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

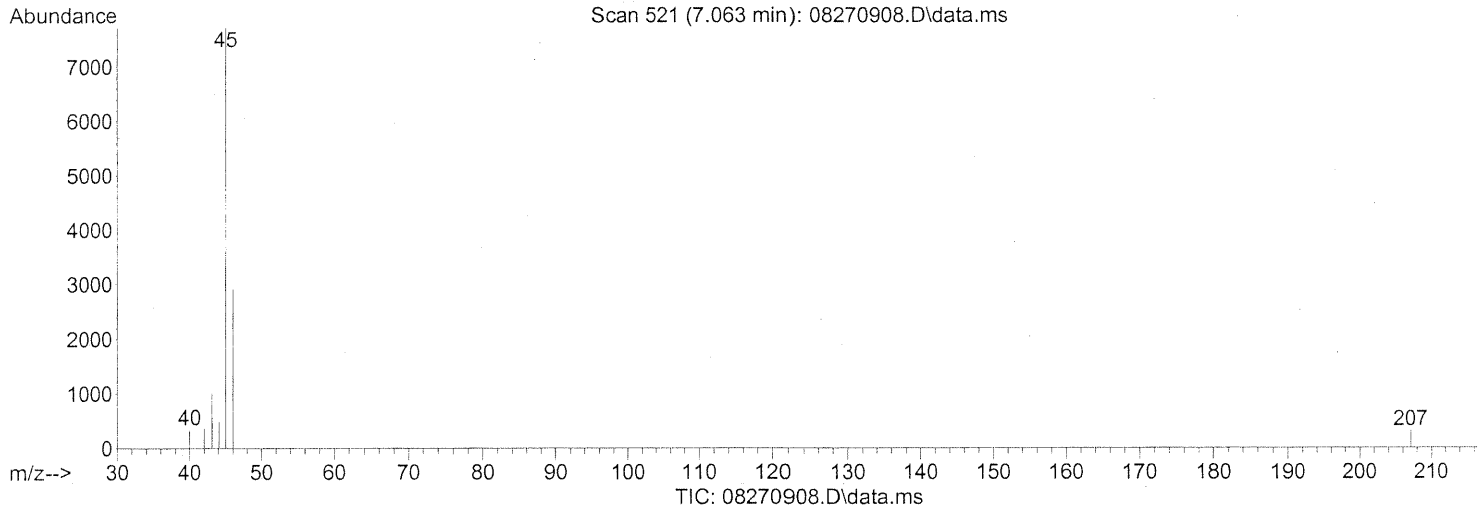
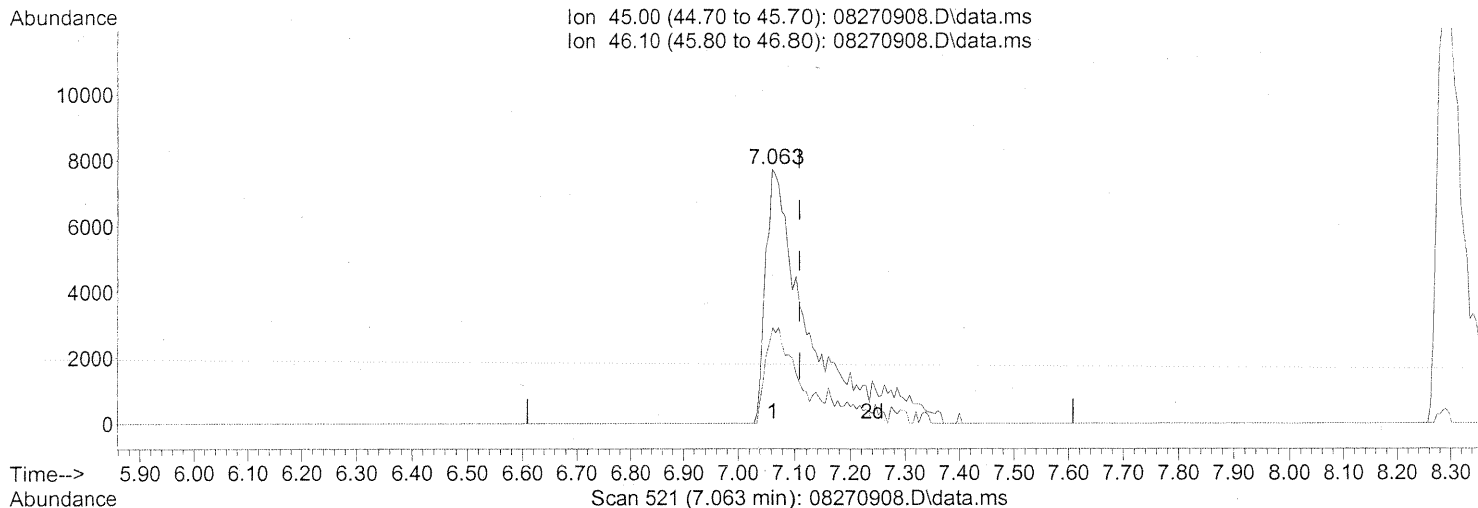
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	20092	0.573	ng	95
81) 2-Ethyltoluene	24.55	105	48257	0.598	ng	98
82) 1,2,4-Trimethylbenzene	24.82	105	40343	0.605	ng	95
83) n-Decane	24.93	57	25406	0.586	ng	99
84) Benzyl Chloride	25.00	91	40338	0.645	ng	96
85) 1,3-Dichlorobenzene	25.02	146	22095	0.654	ng	98
86) 1,4-Dichlorobenzene	25.10	146	22724	0.631	ng	94
87) sec-Butylbenzene	25.16	105	55697	0.618	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	49417	0.615	ng	97
89) 1,2,3-Trimethylbenzene	25.35	105	43348	0.638	ng	99
90) 1,2-Dichlorobenzene	25.52	146	20727	0.647	ng	100
91) d-Limonene	25.53	68	16073	0.566	ng	94
92) 1,2-Dibromo-3-Chloropr...	26.06	157	6665	0.605	ng	83
93) n-Undecane	26.45	57	26484	0.574	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	15009	0.682	ng	98
95) Naphthalene	27.73	128	54474	0.601	ng	98
96) n-Dodecane	27.69	57	28561	0.533	ng	99
97) Hexachlorobutadiene	28.14	225	8673	0.619	ng	98
98) Cyclohexanone	22.30	55	14301	0.482	ng	97
99) tert-Butylbenzene	24.82	119	40141	0.621	ng	100
100) n-Butylbenzene	25.86	91	47669	0.641	ng	98

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270908.D
Acq On : 27 Aug 2009 16:52
Operator : WA/CC
Sample : 0.5ng TO-15 ICAL
Misc : S20-08140906/S20-07310904
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:43:23 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



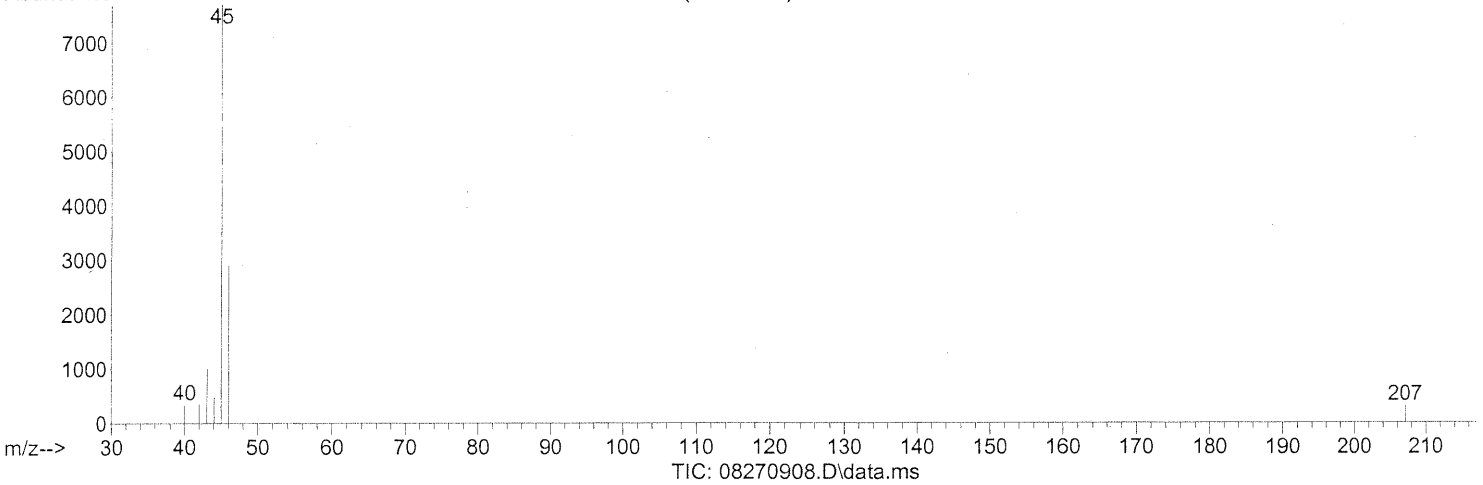
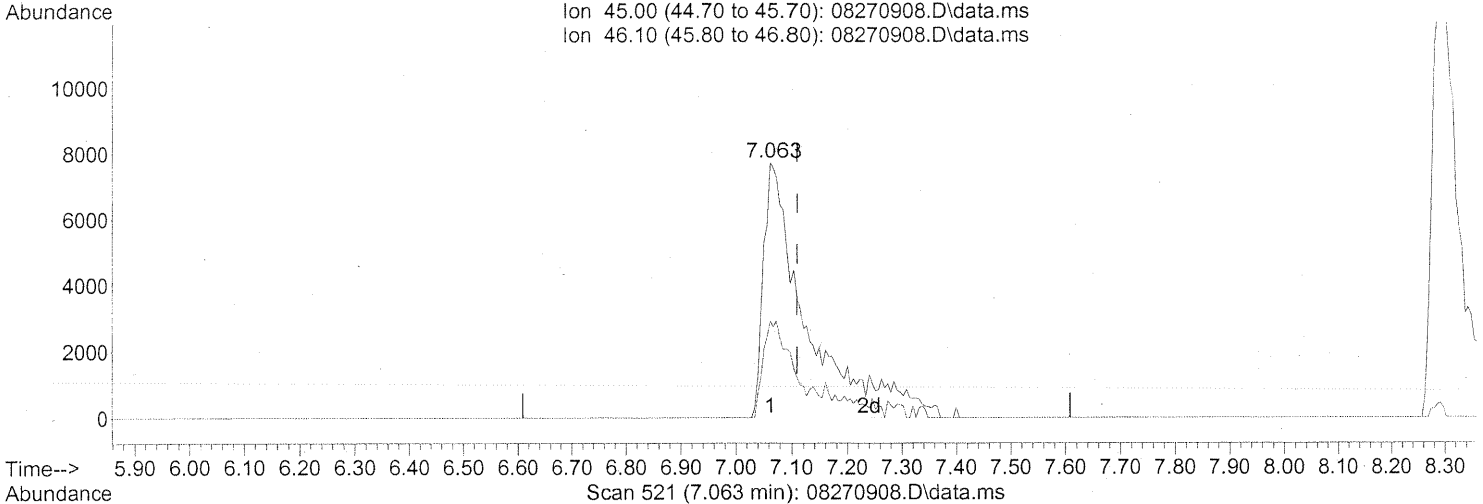
(10) Ethanol (T)
7.063min (-0.046) 2.42ng
response 36361

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	30.77
0.00	0.00	0.00
0.00	0.00	0.00

PT

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270908.D
 Acq On : 27 Aug 2009 16:52
 Operator : WA/CC
 Sample : 0.5ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:43:23 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



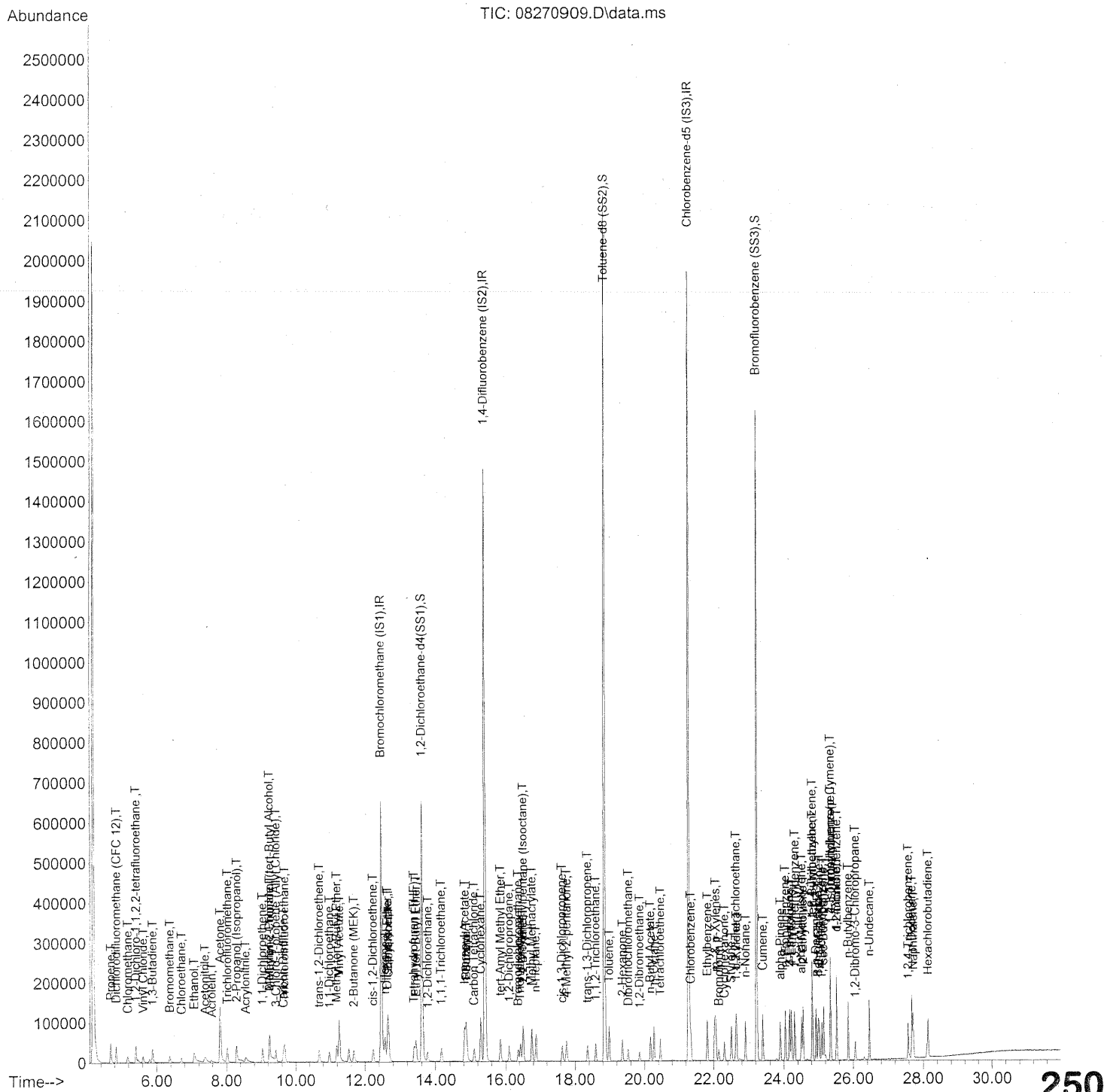
(10) Ethanol (T)
 7.063min (-0.046) 2.80ng m
 response 42023

Ion	Exp%	Act%
45.00	100	100
46.10	38.20	26.62
0.00	0.00	0.00
0.00	0.00	0.00

PT → IC
WA/CC 8/28/09
CC
8/28/09
— E 8/31/09

Data Path : J:\MS13\DATA\2009_08\27\
Data File : 08270909.D
Acq On : 27 Aug 2009 17:32
Operator : WA/CC
Sample : 1.0ng TO-15 ICAL
Misc : S20-08140906/S20-07310904
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Thu Aug 27 20:40:00 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
CC
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	338113	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.41	114	1695008	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.28	82	819143	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.62	65	678685	23.094	ng	-0.02
Spiked Amount	25.000		Recovery	=	92.36%	
57) Toluene-d8 (SS2)	18.85	98	1826536	25.519	ng	0.00
Spiked Amount	25.000		Recovery	=	102.08%	
73) Bromofluorobenzene (SS3)	23.23	174	525776	27.855	ng	0.00
Spiked Amount	25.000		Recovery	=	111.44%	

Target Compounds

						Qvalue
2) Propene	4.69	42	23167	0.998	ng	98
3) Dichlorodifluoromethan...	4.85	85	44225	1.166	ng	100
4) Chloromethane	5.17	50	29046	1.140	ng	96
5) 1,2-Dichloro-1,1,2,2-t...	5.41	135	18594	1.207	ng	99
6) Vinyl Chloride	5.61	62	26423	1.079	ng	96
7) 1,3-Butadiene	5.89	54	22473	1.281	ng	100
8) Bromomethane	6.37	94	16348	1.097	ng	95
9) Chloroethane	6.70	64	13821	0.971	ng	96
10) Ethanol	7.06	45	75189	5.112	ng	99
11) Acetonitrile	7.38	41	39923	0.927	ng	98
12) Acrolein	7.57	56	11566	1.033	ng	86
13) Acetone	7.81	58	80124	5.774	ng	99
14) Trichlorofluoromethane	8.02	101	38449	1.121	ng	97
15) 2-Propanol (Isopropanol)	8.29	45	107175	1.965	ng	98
16) Acrylonitrile	8.55	53	26590	1.060	ng	96
17) 1,1-Dichloroethene	9.03	96	19322	1.214	ng	89
18) 2-Methyl-2-Propanol (t...	9.24	59	102219	2.112	ng	94
19) Methylene Chloride	9.24	84	20286	1.089	ng	96
20) 3-Chloro-1-propene (Al...	9.42	41	30207	0.841	ng	99
21) Trichlorotrifluoroethane	9.67	151	16030	1.286	ng	93
22) Carbon Disulfide	9.64	76	72815	1.108	ng	100
23) trans-1,2-Dichloroethene	10.67	61	29706	1.055	ng	91
24) 1,1-Dichloroethane	10.98	63	35945	1.052	ng	98
25) Methyl tert-Butyl Ether	11.19	73	55919	1.065	ng	99
26) Vinyl Acetate	11.26	86	18783	6.651	ng	# 68
27) 2-Butanone (MEK)	11.68	72	13258	1.058	ng	# 86
28) cis-1,2-Dichloroethene	12.23	61	27982	1.067	ng	87
29) Diisopropyl Ether	12.64	87	19284	1.150	ng	# 22
30) Ethyl Acetate	12.66	61	14245	2.182	ng	100
31) n-Hexane	12.58	57	35385	1.060	ng	251

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.67	83	35077	1.193	ng	98
34) Tetrahydrofuran (THF)	13.39	72	14938	1.118	ng	99
35) Ethyl tert-Butyl Ether	13.44	87	22600	1.042	ng	98
36) 1,2-Dichloroethane	13.79	62	28509	1.061	ng	98
38) 1,1,1-Trichloroethane	14.16	97	31494	1.095	ng	98
39) Isopropyl Acetate	14.83	61	25625	2.038	ng	# 68
40) 1-Butanol	14.88	56	37926	1.724	ng	# 1
41) Benzene	14.87	78	80573	1.081	ng	100
42) Carbon Tetrachloride	15.09	117	27461	1.156	ng	99
43) Cyclohexane	15.29	84	60257	2.208	ng	97
44) tert-Amyl Methyl Ether	15.85	73	59739	1.067	ng	97
45) 1,2-Dichloropropane	16.10	63	20251	1.082	ng	94
46) Bromodichloromethane	16.37	83	26601	1.083	ng	97
47) Trichloroethene	16.43	130	19053	1.134	ng	98
48) 1,4-Dioxane	16.51	88	15853	1.113	ng	88
49) 2,2,4-Trimethylpentane...	16.52	57	91059	1.037	ng	100
50) Methyl Methacrylate	16.76	100	14852	2.165	ng	99
51) n-Heptane	16.87	71	21673	1.084	ng	96
52) cis-1,3-Dichloropropene	17.64	75	30063	0.969	ng	97
53) 4-Methyl-2-pentanone	17.76	58	19029	1.062	ng	96
54) trans-1,3-Dichloropropene	18.35	75	31487	1.068	ng	99
55) 1,1,2-Trichloroethane	18.59	97	17826	1.089	ng	99
58) Toluene	18.98	91	81135	1.153	ng	100
59) 2-Hexanone	19.36	43	49906	1.067	ng	99
60) Dibromochloromethane	19.53	129	20786	1.249	ng	99
61) 1,2-Dibromoethane	19.86	107	20935	1.186	ng	99
62) n-Butyl Acetate	20.17	43	56818	1.031	ng	97
63) n-Octane	20.28	57	18601	1.094	ng	97
64) Tetrachloroethene	20.46	166	19016	1.168	ng	98
65) Chlorobenzene	21.34	112	50799	1.167	ng	99
66) Ethylbenzene	21.82	91	91245	1.135	ng	99
67) m- & p-Xylenes	22.05	91	143956	2.213	ng	98
68) Bromoform	22.14	173	16140	1.168	ng	99
69) Styrene	22.50	104	52062	1.107	ng	99
70) o-Xylene	22.65	91	75012	1.150	ng	98
71) n-Nonane	22.91	43	44250	1.021	ng	96
72) 1,1,2,2-Tetrachloroethane	22.63	83	32737	1.131	ng	92
74) Cumene	23.41	105	91337	1.109	ng	100
75) alpha-Pinene	23.90	93	44882	1.063	ng	99
76) n-Propylbenzene	24.04	91	116128	1.121	ng	99
77) 3-Ethyltoluene	24.17	105	90541	1.150	ng	99
78) 4-Ethyltoluene	24.22	105	90088	1.181	ng	96
79) 1,3,5-Trimethylbenzene	24.31	105	76723	1.192	ng	100

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270909.D
 Acq On : 27 Aug 2009 17:32
 Operator : WA/CC
 Sample : 1.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:46:43 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

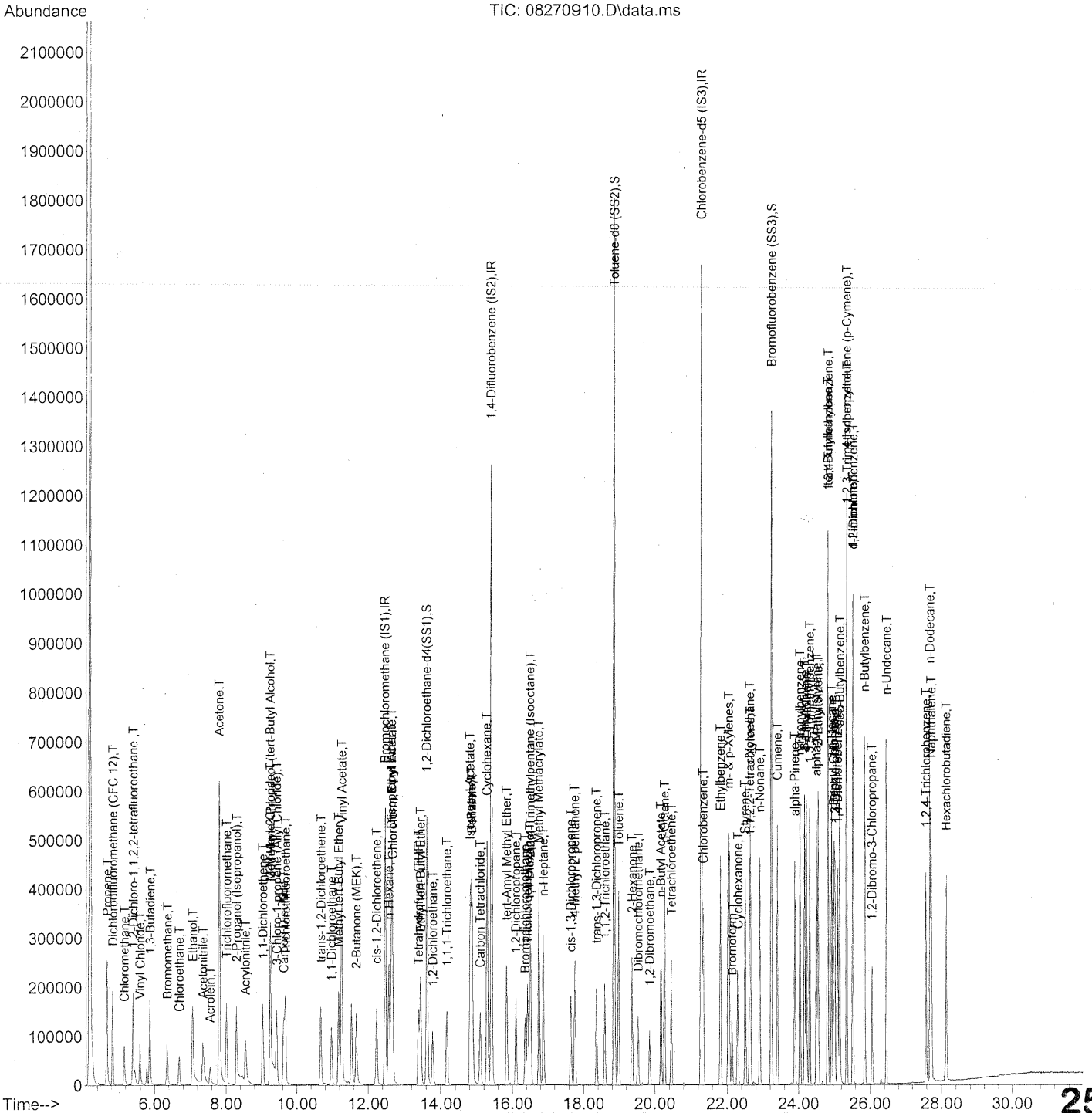
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	37555	1.090	ng	97
81) 2-Ethyltoluene	24.55	105	92466	1.165	ng	100
82) 1,2,4-Trimethylbenzene	24.82	105	75715	1.154	ng	98
83) n-Decane	24.93	57	48044	1.126	ng	99
84) Benzyl Chloride	24.99	91	74822	1.216	ng	99
85) 1,3-Dichlorobenzene	25.02	146	41470	1.249	ng	97
86) 1,4-Dichlorobenzene	25.10	146	41289	1.166	ng	99
87) sec-Butylbenzene	25.15	105	104559	1.180	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	91307	1.155	ng	98
89) 1,2,3-Trimethylbenzene	25.35	105	79842	1.194	ng	99
90) 1,2-Dichlorobenzene	25.53	146	38264	1.215	ng	99
91) d-Limonene	25.53	68	30898	1.107	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.06	157	13048	1.205	ng	95
93) n-Undecane	26.46	57	49930	1.100	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	27886	1.288	ng	99
95) Naphthalene	27.73	128	104048	1.168	ng	99
96) n-Dodecane	27.69	57	52970	1.005	ng	98
97) Hexachlorobutadiene	28.14	225	16329	1.186	ng	97
98) Cyclohexanone	22.30	55	26821	0.920	ng	97
99) tert-Butylbenzene	24.82	119	74545	1.174	ng	98
100) n-Butylbenzene	25.86	91	87925	1.203	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

W 8/28/09
CC
8/28/09

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.47	130	285134	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.41	114	1419665	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.28	82	696006	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.62	65	562841	22.711	ng	-0.01
Spiked Amount				25.000		
				Recovery	=	90.84%
57) Toluene-d8 (SS2)	18.85	98	1539663	25.317	ng	0.00
Spiked Amount				25.000		
				Recovery	=	101.28%
73) Bromofluorobenzene (SS3)	23.23	174	447453	27.900	ng	0.00
Spiked Amount				25.000		
				Recovery	=	111.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.67	42	120348	6.151	ng	97
3) Dichlorodifluoromethan...	4.84	85	193597	6.054	ng	100
4) Chloromethane	5.16	50	121026	5.633	ng	100
5) 1,2-Dichloro-1,1,2,2-t...	5.40	135	81300	6.257	ng	98
6) Vinyl Chloride	5.59	62	119297	5.779	ng	99
7) 1,3-Butadiene	5.87	54	104125	7.037	ng	98
8) Bromomethane	6.35	94	79946	6.362	ng	97
9) Chloroethane	6.69	64	66514	5.543	ng	100
10) Ethanol	7.06	45	344709	27.793	ng	100
11) Acetonitrile	7.35	41	186705	5.140	ng	98
12) Acrolein	7.55	56	54908	5.816	ng	99
13) Acetone	7.81	58	353050	30.169	ng	99
14) Trichlorofluoromethane	8.01	101	176237	6.095	ng	98
15) 2-Propanol (Isopropanol)	8.29	45	379930	8.262	ng	94
16) Acrylonitrile	8.54	53	126729	5.993	ng	97
17) 1,1-Dichloroethene	9.03	96	86179	6.419	ng	93
18) 2-Methyl-2-Propanol (t...	9.24	59	460734	11.287	ng	99
19) Methylene Chloride	9.23	84	89945	5.723	ng	94
20) 3-Chloro-1-propene (Al...	9.42	41	145675	4.808	ng	98
21) Trichlorotrifluoroethane	9.68	151	69998	6.658	ng	99
22) Carbon Disulfide	9.63	76	331741	5.987	ng	99
23) trans-1,2-Dichloroethene	10.67	61	137375	5.783	ng	93
24) 1,1-Dichloroethane	10.98	63	163088	5.661	ng	100
25) Methyl tert-Butyl Ether	11.18	73	259596	5.863	ng	98
26) Vinyl Acetate	11.27	86	86141	36.171	ng	# 92
27) 2-Butanone (MEK)	11.66	72	64271	6.083	ng	98
28) cis-1,2-Dichloroethene	12.23	61	131673	5.955	ng	92
29) Diisopropyl Ether	12.64	87	88485	6.258	ng	# 23
30) Ethyl Acetate	12.66	61	69155	12.564	ng	97
31) n-Hexane	12.58	57	156515	5.559	ng	10

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.68	83	158573	6.397	ng	98
34) Tetrahydrofuran (THF)	13.39	72	62284	5.530	ng	96
35) Ethyl tert-Butyl Ether	13.44	87	100668	5.503	ng	97
36) 1,2-Dichloroethane	13.79	62	127632	5.633	ng	98
38) 1,1,1-Trichloroethane	14.17	97	142224	5.906	ng	98
39) Isopropyl Acetate	14.82	61	120873	11.478	ng	# 72
40) 1-Butanol	14.86	56	183717	9.971	ng	# 1
41) Benzene	14.87	78	360870	5.782	ng	99
42) Carbon Tetrachloride	15.10	117	126837	6.376	ng	98
43) Cyclohexane	15.29	84	273998	11.985	ng	96
44) tert-Amyl Methyl Ether	15.84	73	261147	5.571	ng	99
45) 1,2-Dichloropropane	16.10	63	92071	5.873	ng	99
46) Bromodichloromethane	16.37	83	126412	6.146	ng	100
47) Trichloroethene	16.44	130	89343	6.346	ng	99
48) 1,4-Dioxane	16.50	88	75297	6.312	ng	92
49) 2,2,4-Trimethylpentane...	16.52	57	412337	5.608	ng	99
50) Methyl Methacrylate	16.76	100	72721	12.656	ng	97
51) n-Heptane	16.88	71	98223	5.864	ng	96
52) cis-1,3-Dichloropropene	17.65	75	142422	5.482	ng	100
53) 4-Methyl-2-pentanone	17.75	58	89269	5.951	ng	99
54) trans-1,3-Dichloropropene	18.36	75	151819	6.146	ng	99
55) 1,1,2-Trichloroethane	18.60	97	85346	6.228	ng	100
58) Toluene	18.98	91	374000	6.257	ng	100
59) 2-Hexanone	19.36	43	229766	5.781	ng	98
60) Dibromochloromethane	19.53	129	99312	7.023	ng	98
61) 1,2-Dibromoethane	19.86	107	96822	6.458	ng	100
62) n-Butyl Acetate	20.17	43	265155	5.660	ng	98
63) n-Octane	20.27	57	83701	5.793	ng	96
64) Tetrachloroethene	20.46	166	89713	6.486	ng	99
65) Chlorobenzene	21.34	112	236912	6.407	ng	99
66) Ethylbenzene	21.82	91	426544	6.243	ng	98
67) m- & p-Xylenes	22.05	91	664427	12.022	ng	100
68) Bromoform	22.14	173	77570	6.606	ng	99
69) Styrene	22.50	104	255399	6.393	ng	98
70) o-Xylene	22.65	91	345400	6.233	ng	99
71) n-Nonane	22.91	43	204226	5.547	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	158108	6.429	ng	98
74) Cumene	23.41	105	419995	6.000	ng	99
75) alpha-Pinene	23.90	93	210281	5.861	ng	99
76) n-Propylbenzene	24.04	91	543860	6.181	ng	99
77) 3-Ethyltoluene	24.17	105	424375	6.344	ng	98
78) 4-Ethyltoluene	24.22	105	424689	6.552	ng	100
79) 1,3,5-Trimethylbenzene	24.31	105	351291	6.426	ng	256

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270910.D
 Acq On : 27 Aug 2009 18:13
 Operator : WA/CC
 Sample : 5.0ng TO-15 ICAL
 Misc : S20-08140906/S20-07310904
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:49:17 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

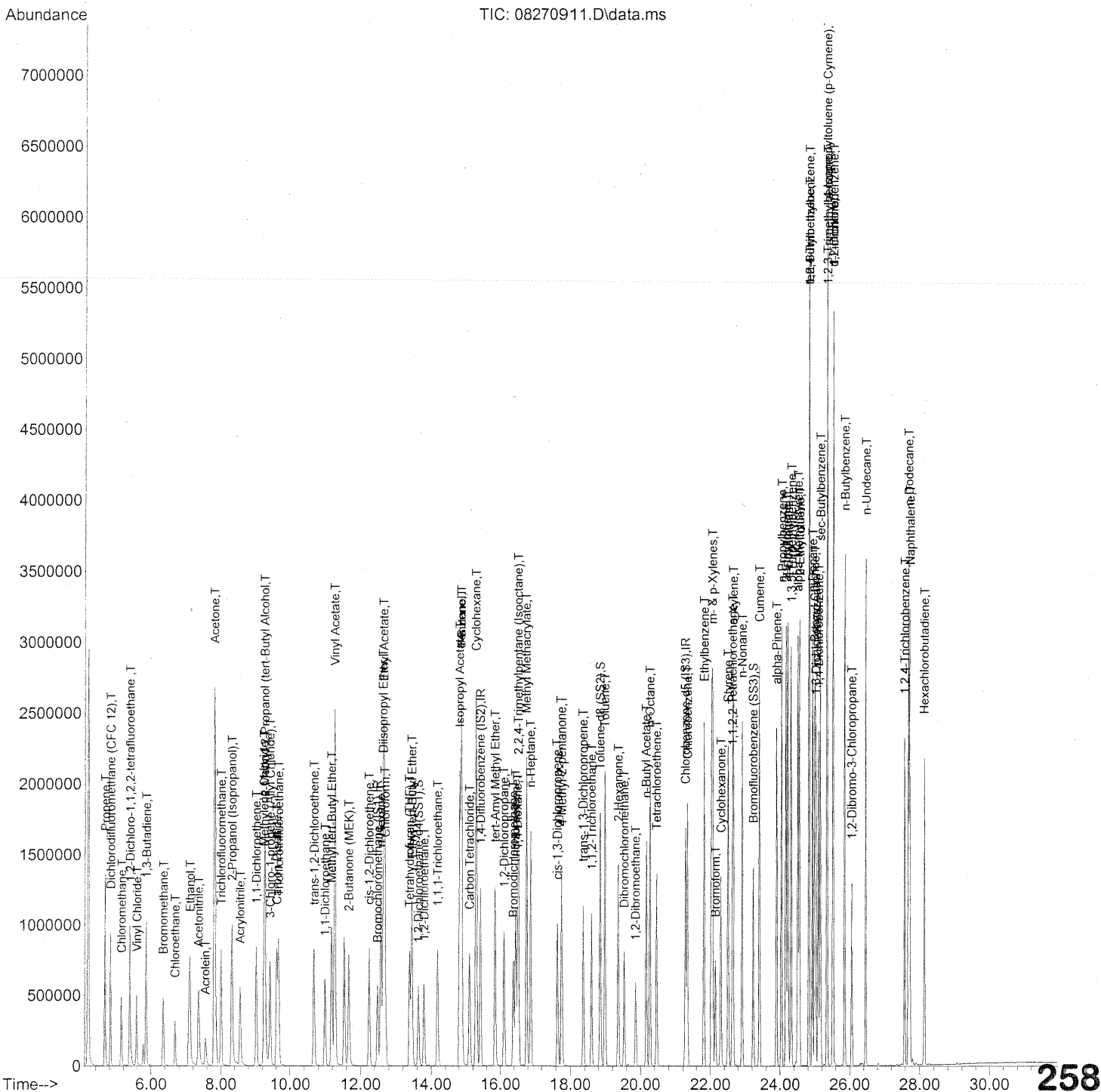
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	187722	6.414	ng	98
81) 2-Ethyltoluene	24.55	105	422733	6.266	ng	100
82) 1,2,4-Trimethylbenzene	24.83	105	355483	6.376	ng	98
83) n-Decane	24.93	57	216013	5.959	ng	97
84) Benzyl Chloride	24.99	91	361430	6.916	ng	100
85) 1,3-Dichlorobenzene	25.02	146	186769	6.619	ng	99
86) 1,4-Dichlorobenzene	25.10	146	191016	6.349	ng	100
87) sec-Butylbenzene	25.16	105	482316	6.404	ng	98
88) 4-Isopropyltoluene (p-...	25.35	119	433059	6.448	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	371622	6.543	ng	100
90) 1,2-Dichlorobenzene	25.53	146	179979	6.728	ng	99
91) d-Limonene	25.53	68	149598	6.310	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.06	157	66848	7.265	ng	97
93) n-Undecane	26.46	57	234884	6.091	ng	99
94) 1,2,4-Trichlorobenzene	27.58	180	136765	7.435	ng	99
95) Naphthalene	27.72	128	498226	6.580	ng	99
96) n-Dodecane	27.69	57	246891	5.511	ng	98
97) Hexachlorobutadiene	28.14	225	77742	6.645	ng	99
98) Cyclohexanone	22.30	55	129078	5.213	ng	97
99) tert-Butylbenzene	24.82	119	343094	6.358	ng	99
100) n-Butylbenzene	25.86	91	416303	6.704	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

17 8/28/09
cc 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.48	130	284501	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.43	114	1447280	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	702211	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.63	65	570397	23.067	ng	0.00
Spiked Amount	25.000		Recovery	=	92.28%	
57) Toluene-d8 (SS2)	18.85	98	1567824	25.552	ng	0.00
Spiked Amount	25.000		Recovery	=	102.20%	
73) Bromofluorobenzene (SS3)	23.23	174	454480	28.088	ng	0.00
Spiked Amount	25.000		Recovery	=	112.36%	

Target Compounds

						Qvalue
2) Propene	4.66	42	588172	30.127	ng	99
3) Dichlorodifluoromethan...	4.82	85	955071	29.931	ng	99
4) Chloromethane	5.14	50	669890	31.246	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	417184	32.179	ng	99
6) Vinyl Chloride	5.59	62	625558	30.370	ng	98
7) 1,3-Butadiene	5.86	54	570533	38.645	ng	99
8) Bromomethane	6.35	94	424003	33.816	ng	97
9) Chloroethane	6.69	64	348508	29.110	ng	98
10) Ethanol	7.11	45	1816351	146.775	ng	99
11) Acetonitrile	7.36	41	978031	26.986	ng	99
12) Acrolein	7.55	56	301988	32.058	ng	99
13) Acetone	7.82	58	1809667	154.985	ng	97
14) Trichlorofluoromethane	8.01	101	920207	31.898	ng	97
15) 2-Propanol (Isopropanol)	8.32	45	2169597	47.283	ng	100
16) Acrylonitrile	8.55	53	688506	32.634	ng	98
17) 1,1-Dichloroethene	9.02	96	462130	34.499	ng	93
18) 2-Methyl-2-Propanol (t...	9.27	59	2503952	61.479	ng	99
19) Methylene Chloride	9.25	84	470180	29.985	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	781914	25.867	ng	98
21) Trichlorotrifluoroethane	9.67	151	385242	36.727	ng	96
22) Carbon Disulfide	9.62	76	1769730	32.011	ng	99
23) trans-1,2-Dichloroethene	10.68	61	738419	31.154	ng	94
24) 1,1-Dichloroethane	10.99	63	874410	30.422	ng	99
25) Methyl tert-Butyl Ether	11.18	73	1433827	32.454	ng	98
26) Vinyl Acetate	11.27	86	502228	211.357	ng	99
27) 2-Butanone (MEK)	11.67	72	351618	33.352	ng	96
28) cis-1,2-Dichloroethene	12.24	61	705526	31.978	ng	91
29) Diisopropyl Ether	12.64	87	478190	33.893	ng	# 21
30) Ethyl Acetate	12.67	61	368666	67.126	ng	98
31) n-Hexane	12.58	57	835198	29.727	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	837403	33.855	ng	97
34) Tetrahydrofuran (THF)	13.38	72	337216	30.007	ng	95
35) Ethyl tert-Butyl Ether	13.45	87	550620	30.168	ng	95
36) 1,2-Dichloroethane	13.80	62	686367	30.362	ng	99
38) 1,1,1-Trichloroethane	14.18	97	775212	31.576	ng	99
39) Isopropyl Acetate	14.83	61	655653	61.070	ng #	74
40) 1-Butanol	14.88	56	1045668	55.670	ng #	63
41) Benzene	14.88	78	1874167	29.454	ng	100
42) Carbon Tetrachloride	15.11	117	698778	34.456	ng	100
43) Cyclohexane	15.30	84	1485423	63.735	ng	95
44) tert-Amyl Methyl Ether	15.85	73	1383659	28.956	ng	98
45) 1,2-Dichloropropane	16.11	63	492324	30.807	ng	99
46) Bromodichloromethane	16.37	83	692441	33.022	ng	99
47) Trichloroethene	16.44	130	495591	34.531	ng	99
48) 1,4-Dioxane	16.50	88	409598	33.682	ng	93
49) 2,2,4-Trimethylpentane...	16.52	57	2183614	29.134	ng	99
50) Methyl Methacrylate	16.76	100	401830	68.598	ng	95
51) n-Heptane	16.88	71	521007	30.509	ng	97
52) cis-1,3-Dichloropropene	17.65	75	788158	29.758	ng	100
53) 4-Methyl-2-pentanone	17.76	58	495183	32.380	ng	99
54) trans-1,3-Dichloropropene	18.36	75	830905	32.995	ng	100
55) 1,1,2-Trichloroethane	18.60	97	455804	32.625	ng	99
58) Toluene	18.98	91	1976690	32.780	ng	100
59) 2-Hexanone	19.36	43	1280900	31.943	ng	97
60) Dibromochloromethane	19.53	129	565906	39.665	ng	100
61) 1,2-Dibromoethane	19.86	107	536115	35.443	ng	99
62) n-Butyl Acetate	20.17	43	1478795	31.288	ng	99
63) n-Octane	20.28	57	450511	30.902	ng	98
64) Tetrachloroethene	20.46	166	483543	34.652	ng	100
65) Chlorobenzene	21.34	112	1280692	34.328	ng	100
66) Ethylbenzene	21.82	91	2274865	33.001	ng	100
67) m- & p-Xylenes	22.06	91	3561506	63.869	ng	100
68) Bromoform	22.15	173	449129	37.913	ng	99
69) Styrene	22.51	104	1403684	34.827	ng	99
70) o-Xylene	22.65	91	1846441	33.026	ng	98
71) n-Nonane	22.91	43	1062700	28.607	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	855281	34.471	ng	99
74) Cumene	23.41	105	2260423	32.007	ng	98
75) alpha-Pinene	23.90	93	1143364	31.584	ng	99
76) n-Propylbenzene	24.05	91	2876713	32.403	ng	99
77) 3-Ethyltoluene	24.17	105	2284898	33.854	ng	99
78) 4-Ethyltoluene	24.23	105	2259500	34.550	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1894001	34.339	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270911.D
 Acq On : 27 Aug 2009 18:53
 Operator : WA/CC
 Sample : 25ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:51:53 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

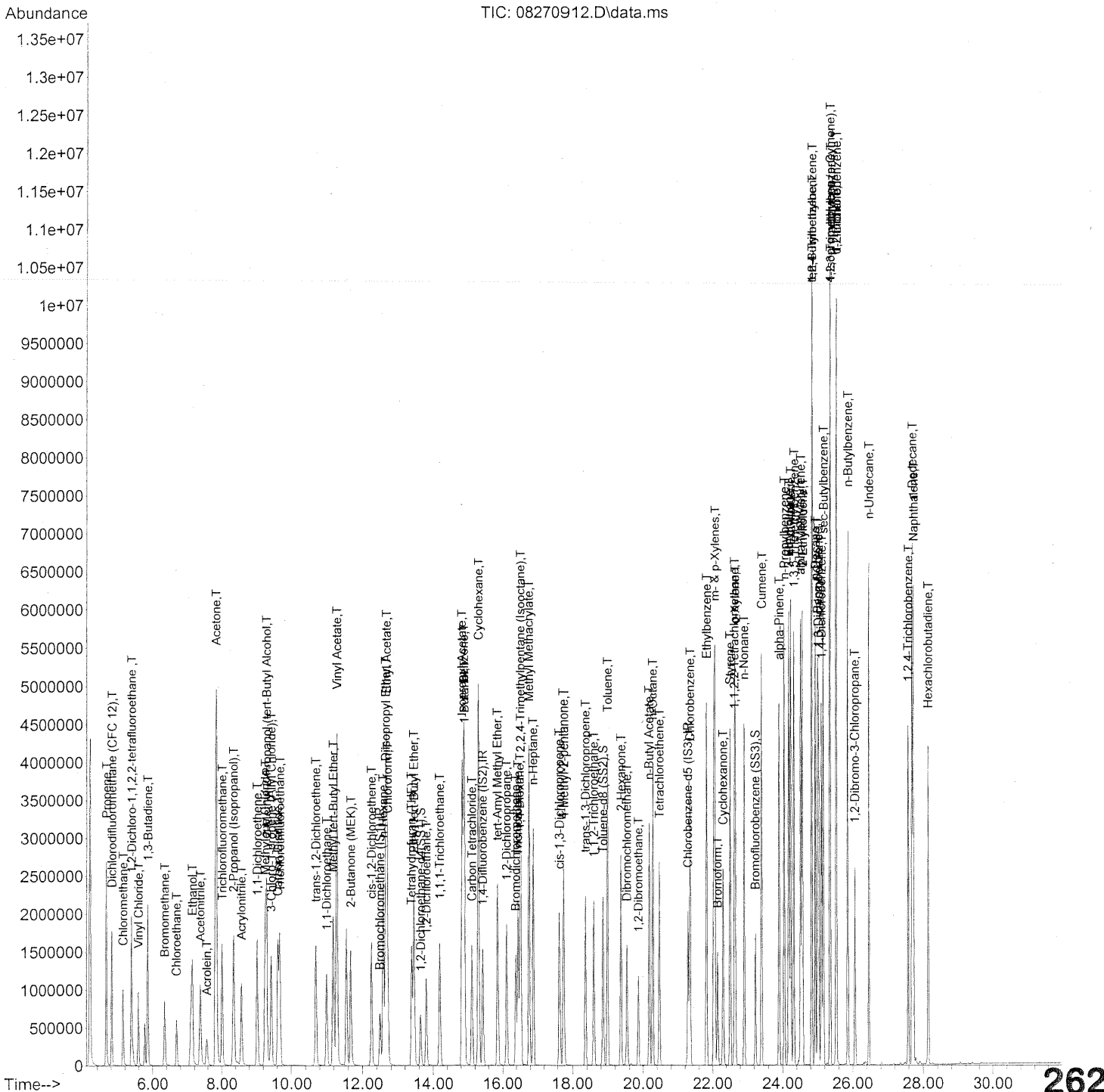
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1054165	35.698	ng	99
81) 2-Ethyltoluene	24.56	105	2259196	33.194	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1897450	33.733	ng	98
83) n-Decane	24.93	57	1120197	30.630	ng	97
84) Benzyl Chloride	25.00	91	1962770	37.225	ng	99
85) 1,3-Dichlorobenzene	25.03	146	1029308	36.157	ng	99
86) 1,4-Dichlorobenzene	25.11	146	1057372	34.835	ng	99
87) sec-Butylbenzene	25.16	105	2566383	33.774	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2290126	33.799	ng	99
89) 1,2,3-Trimethylbenzene	25.35	105	1952841	34.080	ng	99
90) 1,2-Dichlorobenzene	25.53	146	957838	35.488	ng	99
91) d-Limonene	25.53	68	817753	34.188	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	385331	41.509	ng	93
93) n-Undecane	26.46	57	1206152	31.000	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	752993	40.576	ng	99
95) Naphthalene	27.73	128	2740834	35.879	ng	100
96) n-Dodecane	27.69	57	1216284	26.908	ng	98
97) Hexachlorobutadiene	28.14	225	412785	34.972	ng	99
98) Cyclohexanone	22.30	55	734000	29.379	ng	97
99) tert-Butylbenzene	24.83	119	1825773	33.538	ng	99
100) n-Butylbenzene	25.86	91	2198104	35.084	ng	99

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

17 8/28/09
CC
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.50	130	355771	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1781908	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.29	82	859804	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.64	65	693583	22.430	ng	0.01
Spiked Amount	25.000		Recovery	=	89.72%	
57) Toluene-d8 (SS2)	18.85	98	1926052	25.637	ng	0.00
Spiked Amount	25.000		Recovery	=	102.56%	
73) Bromofluorobenzene (SS3)	23.23	174	552218	27.873	ng	0.00
Spiked Amount	25.000		Recovery	=	111.48%	

Target Compounds

						Qvalue
2) Propene	4.66	42	1154843	47.303	ng	98
3) Dichlorodifluoromethan...	4.82	85	1829151	45.840	ng	99
4) Chloromethane	5.14	50	1341013	50.020	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	827543	51.045	ng	100
6) Vinyl Chloride	5.59	62	1263606	49.058	ng	99
7) 1,3-Butadiene	5.86	54	1118893	60.607	ng	98
8) Bromomethane	6.35	94	762302	48.617	ng	97
9) Chloroethane	6.69	64	687395	45.915	ng	99
10) Ethanol	7.14	45	3546941	229.202	ng	99
11) Acetonitrile	7.38	41	1926551	42.509	ng	99
12) Acrolein	7.57	56	602852	51.177	ng	98
13) Acetone	7.83	58	3428848	234.829	ng	95
14) Trichlorofluoromethane	8.01	101	1794190	49.734	ng	98
15) 2-Propanol (Isopropanol)	8.34	45	3820480	66.582	ng	100
16) Acrylonitrile	8.57	53	1373006	52.042	ng	98
17) 1,1-Dichloroethene	9.03	96	925646	55.259	ng	91
18) 2-Methyl-2-Propanol (t...	9.30	59	4275643	83.949	ng	99
19) Methylene Chloride	9.26	84	928469	47.349	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	1562507	41.336	ng	97
21) Trichlorotrifluoroethane	9.68	151	770821	58.765	ng	96
22) Carbon Disulfide	9.62	76	3467083	50.150	ng	99
23) trans-1,2-Dichloroethene	10.69	61	1467929	49.525	ng	93
24) 1,1-Dichloroethane	11.00	63	1749311	48.669	ng	99
25) Methyl tert-Butyl Ether	11.18	73	2886625	52.249	ng	98
26) Vinyl Acetate	11.29	86	946195	318.427	ng	# 92
27) 2-Butanone (MEK)	11.68	72	693027	52.566	ng	94
28) cis-1,2-Dichloroethene	12.26	61	1393226	50.498	ng	91
29) Diisopropyl Ether	12.65	87	932693	52.864	ng	# 21
30) Ethyl Acetate	12.68	61	711553	103.604	ng	98
31) n-Hexane	12.58	57	1646711	46.870	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	1622626	52.459	ng	97
34) Tetrahydrofuran (THF)	13.38	72	655734	46.661	ng	95
35) Ethyl tert-Butyl Ether	13.46	87	1101754	48.271	ng	94
36) 1,2-Dichloroethane	13.80	62	1347810	47.678	ng	99
38) 1,1,1-Trichloroethane	14.19	97	1521512	50.336	ng	98
39) Isopropyl Acetate	14.83	61	1272599	96.274	ng	# 74
40) 1-Butanol	14.90	56	2061538	89.143	ng	67
41) Benzene	14.88	78	3615292	46.147	ng	100
42) Carbon Tetrachloride	15.11	117	1389295	55.640	ng	99
43) Cyclohexane	15.31	84	2895546	100.908	ng	95
44) tert-Amyl Methyl Ether	15.85	73	2676182	45.487	ng	98
45) 1,2-Dichloropropane	16.12	63	971117	49.355	ng	99
46) Bromodichloromethane	16.38	83	1360838	52.710	ng	100
47) Trichloroethene	16.45	130	991208	56.095	ng	98
48) 1,4-Dioxane	16.51	88	803541	53.668	ng	94
49) 2,2,4-Trimethylpentane...	16.53	57	4218183	45.711	ng	99
50) Methyl Methacrylate	16.77	100	798155	110.668	ng	93
51) n-Heptane	16.89	71	1023757	48.691	ng	97
52) cis-1,3-Dichloropropene	17.65	75	1562664	47.920	ng	100
53) 4-Methyl-2-pentanone	17.76	58	973944	51.726	ng	100
54) trans-1,3-Dichloropropene	18.36	75	1641324	52.936	ng	100
55) 1,1,2-Trichloroethane	18.60	97	908507	52.817	ng	100
58) Toluene	18.99	91	3881275	52.567	ng	99
59) 2-Hexanone	19.37	43	2497284	50.862	ng	97
60) Dibromochloromethane	19.53	129	1128262	64.586	ng	100
61) 1,2-Dibromoethane	19.86	107	1060533	57.262	ng	99
62) n-Butyl Acetate	20.17	43	2940183	50.805	ng	99
63) n-Octane	20.28	57	880352	49.319	ng	98
64) Tetrachloroethene	20.47	166	970560	56.805	ng	100
65) Chlorobenzene	21.34	112	2525081	55.277	ng	100
66) Ethylbenzene	21.82	91	4407676	52.222	ng	100
67) m- & p-Xylenes	22.06	91	6851193	100.345	ng	98
68) Bromoform	22.15	173	911971	62.873	ng	99
69) Styrene	22.51	104	2758753	55.902	ng	99
70) o-Xylene	22.66	91	3559961	52.004	ng	98
71) n-Nonane	22.91	43	2047046	45.004	ng	97
72) 1,1,2,2-Tetrachloroethane	22.64	83	1662923	54.738	ng	98
74) Cumene	23.41	105	4397891	50.859	ng	98
75) alpha-Pinene	23.90	93	2250302	50.768	ng	98
76) n-Propylbenzene	24.05	91	5492507	50.528	ng	99
77) 3-Ethyltoluene	24.18	105	4532255	54.843	ng	99
78) 4-Ethyltoluene	24.23	105	4315743	53.896	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	3684738	54.561	ng	98

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270912.D
 Acq On : 27 Aug 2009 19:34
 Operator : WA/CC
 Sample : 50ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

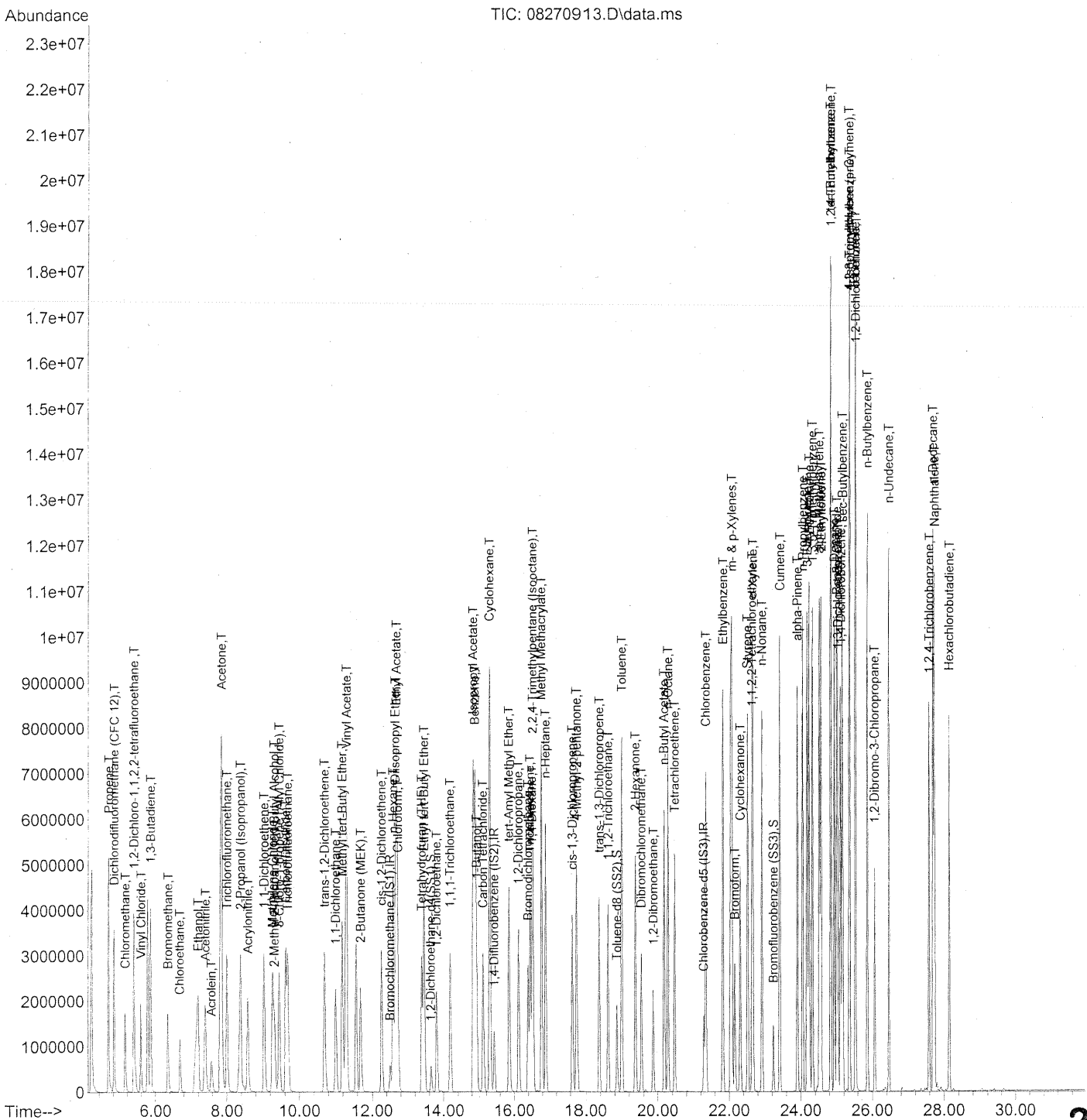
Quant Time: Aug 28 05:54:59 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	2084287	57.646	ng	97
81) 2-Ethyltoluene	24.57	105	4387733	52.651	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	3642429	52.887	ng	98
83) n-Decane	24.94	57	2143395	47.866	ng	97
84) Benzyl Chloride	25.01	91	3798215	58.832	ng	98
85) 1,3-Dichlorobenzene	25.03	146	2036482	58.425	ng	99
86) 1,4-Dichlorobenzene	25.11	146	2091516	56.275	ng	99
87) sec-Butylbenzene	25.17	105	4948380	53.186	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	4364256	52.604	ng	99
89) 1,2,3-Trimethylbenzene	25.36	105	3761867	53.617	ng	99
90) 1,2-Dichlorobenzene	25.53	146	1840676	55.698	ng	99
91) d-Limonene	25.53	68	1581281	53.991	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	769261	67.679	ng	92
93) n-Undecane	26.46	57	2305390	48.392	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	1487407	65.460	ng	99
95) Naphthalene	27.73	128	5330264	56.987	ng	99
96) n-Dodecane	27.70	57	2340297	42.285	ng	98
97) Hexachlorobutadiene	28.15	225	841080	58.197	ng	98
98) Cyclohexanone	22.30	55	1440848	47.101	ng	97
99) tert-Butylbenzene	24.83	119	3502642	52.547	ng	99
100) n-Butylbenzene	25.86	91	4206554	54.834	ng	99

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

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

WA 8/28/09
CC
8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.50	130	311663	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.44	114	1553790	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	732694	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.65	65	593115	21.895	ng	0.02
Spiked Amount	25.000			Recovery	=	87.60%
57) Toluene-d8 (SS2)	18.86	98	1671107	26.102	ng	0.01
Spiked Amount	25.000			Recovery	=	104.40%
73) Bromofluorobenzene (SS3)	23.24	174	475967	28.192	ng	0.00
Spiked Amount	25.000			Recovery	=	112.76%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	2326189	108.766	ng	97
3) Dichlorodifluoromethan...	4.82	85	3724697	106.555	ng	99
4) Chloromethane	5.14	50	2420894	103.079	ng	98
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	1687479	118.819	ng	100
6) Vinyl Chloride	5.59	62	2607530	115.561	ng	99
7) 1,3-Butadiene	5.86	54	2287066	141.415	ng	96
8) Bromomethane	6.35	94	1585108	115.400	ng	98
9) Chloroethane	6.69	64	1424960	108.651	ng	99
10) Ethanol	7.20	45	6995067	515.990	ng	99
11) Acetonitrile	7.41	41	3916806	98.656	ng	99
12) Acrolein	7.58	56	1217708	118.004	ng	99
13) Acetone	7.86	58	6477329	506.390	ng	90
14) Trichlorofluoromethane	8.01	101	3583787	113.401	ng	98
15) 2-Propanol (Isopropanol)	8.39	45	7406478	147.344	ng	99
16) Acrylonitrile	8.59	53	2762119	119.510	ng	98
17) 1,1-Dichloroethene	9.03	96	1882094	128.259	ng	90
18) 2-Methyl-2-Propanol (t...	9.31	59	2734607	61.291	ng	96
19) Methylene Chloride	9.27	84	1891533	110.115	ng	95
20) 3-Chloro-1-propene (Al...	9.45	41	3110625	93.937	ng	96
21) Trichlorotrifluoroethane	9.68	151	1491940	129.838	ng	96
22) Carbon Disulfide	9.63	76	6827544	112.735	ng	98
23) trans-1,2-Dichloroethene	10.70	61	2912051	112.152	ng	93
24) 1,1-Dichloroethane	11.00	63	3453731	109.687	ng	99
25) Methyl tert-Butyl Ether	11.19	73	5728923	118.372	ng	100
26) Vinyl Acetate	11.31	86	1706291	655.492	ng	# 83
27) 2-Butanone (MEK)	11.69	72	1087900	94.196	ng	95
28) cis-1,2-Dichloroethene	12.26	61	2763573	114.342	ng	92
29) Diisopropyl Ether	12.66	87	1816274	117.515	ng	# 20
30) Ethyl Acetate	12.69	61	1367245	227.249	ng	98
31) n-Hexane	12.59	57	3275520	106.426	ng	267

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.72	83	3156196	116.480	ng	97
34) Tetrahydrofuran (THF)	13.39	72	1286760	104.522	ng	95
35) Ethyl tert-Butyl Ether	13.46	87	2208988	110.480	ng	93
36) 1,2-Dichloroethane	13.81	62	2630401	106.218	ng	99
38) 1,1,1-Trichloroethane	14.19	97	2912642	110.506	ng	98
39) Isopropyl Acetate	14.84	61	2447890	212.375	ng	# 77
40) 1-Butanol	14.93	56	3972016	196.969	ng	# 1
41) Benzene	14.89	78	6912771	101.192	ng	99
42) Carbon Tetrachloride	15.12	117	2738691	125.785	ng	100
43) Cyclohexane	15.31	84	5510317	220.224	ng	96
44) tert-Amyl Methyl Ether	15.86	73	5226701	101.881	ng	98
45) 1,2-Dichloropropane	16.12	63	1925723	112.240	ng	99
46) Bromodichloromethane	16.39	83	2658280	118.081	ng	100
47) Trichloroethene	16.45	130	1969977	127.853	ng	99
48) 1,4-Dioxane	16.51	88	1471701	112.724	ng	92
49) 2,2,4-Trimethylpentane...	16.53	57	7987495	99.265	ng	99
50) Methyl Methacrylate	16.79	100	1531447	243.517	ng	92
51) n-Heptane	16.90	71	1983249	108.174	ng	97
52) cis-1,3-Dichloropropene	17.66	75	3069992	107.965	ng	99
53) 4-Methyl-2-pentanone	17.77	58	1907807	116.200	ng	99
54) trans-1,3-Dichloropropene	18.37	75	3237084	119.731	ng	100
55) 1,1,2-Trichloroethane	18.61	97	1791350	119.431	ng	100
58) Toluene	19.00	91	7452062	118.439	ng	98
59) 2-Hexanone	19.38	43	4826121	115.346	ng	97
60) Dibromochloromethane	19.54	129	2243667	150.717	ng	100
61) 1,2-Dibromoethane	19.88	107	2084762	132.093	ng	99
62) n-Butyl Acetate	20.18	43	5887161	119.376	ng	99
63) n-Octane	20.29	57	1700212	111.773	ng	98
64) Tetrachloroethene	20.48	166	1936105	132.976	ng	100
65) Chlorobenzene	21.35	112	4900652	125.893	ng	99
66) Ethylbenzene	21.83	91	8343663	116.005	ng	98
67) m- & p-Xylenes	22.08	91	12943022	222.454	ng	98
68) Bromoform	22.16	173	1840619	148.910	ng	100
69) Styrene	22.51	104	5350057	127.219	ng	99
70) o-Xylene	22.66	91	6776973	116.172	ng	98
71) n-Nonane	22.92	43	3907701	100.814	ng	97
72) 1,1,2,2-Tetrachloroethane	22.64	83	3188416	123.160	ng	98
74) Cumene	23.42	105	8239238	111.812	ng	97
75) alpha-Pinene	23.90	93	4304829	113.968	ng	99
76) n-Propylbenzene	24.05	91	10014810	108.114	ng	97
77) 3-Ethyltoluene	24.18	105	8539072	121.254	ng	97
78) 4-Ethyltoluene	24.24	105	7983793	116.999	ng	96
79) 1,3,5-Trimethylbenzene	24.33	105	6981938	121.318	ng	97

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270913.D
 Acq On : 27 Aug 2009 20:14
 Operator : WA/CC
 Sample : 100ng TO-15 ICAL
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 28 05:57:18 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Thu Aug 27 20:40:00 2009
 Response via : Initial Calibration

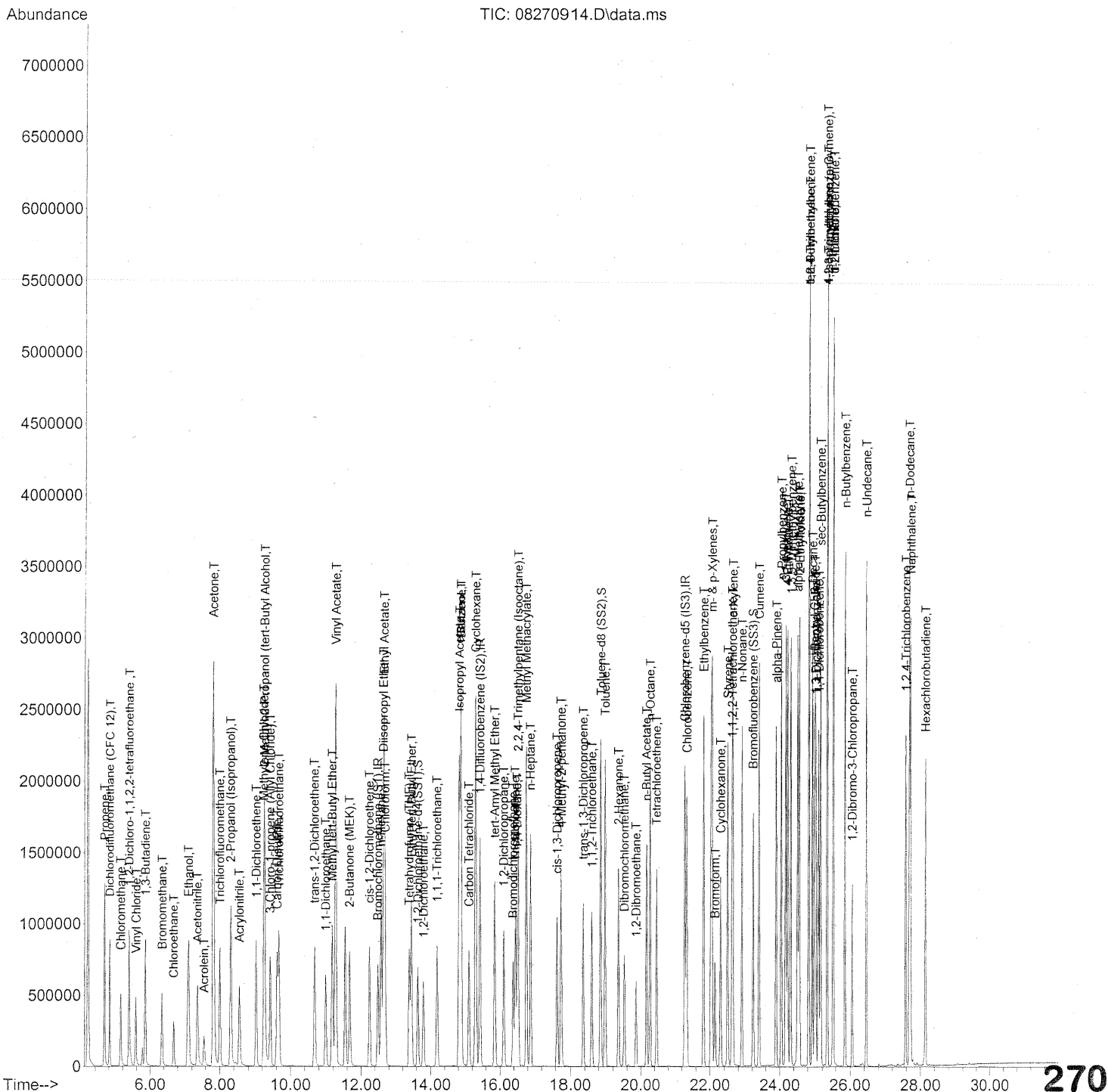
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	4021141	130.507	ng	96
81) 2-Ethyltoluene	24.57	105	8211566	115.630	ng	97
82) 1,2,4-Trimethylbenzene	24.85	105	6692639	114.032	ng	99
83) n-Decane	24.94	57	4009152	105.064	ng	97
84) Benzyl Chloride	25.01	91	7118793	129.396	ng	97
85) 1,3-Dichlorobenzene	25.04	146	3898330	131.243	ng	100
86) 1,4-Dichlorobenzene	25.12	146	4048576	127.830	ng	100
87) sec-Butylbenzene	25.17	105	8997095	113.478	ng	96
88) 4-Isopropyltoluene (p-...	25.36	119	7694114	108.829	ng	97
89) 1,2,3-Trimethylbenzene	25.37	105	6891760	115.267	ng	100
90) 1,2-Dichlorobenzene	25.54	146	3370540	119.685	ng	99
91) d-Limonene	25.53	68	2947196	118.087	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.07	157	1512954	156.201	ng	91
93) n-Undecane	26.46	57	4239249	104.422	ng	98
94) 1,2,4-Trichlorobenzene	27.59	180	2929211	151.276	ng	99
95) Naphthalene	27.74	128	9699377	121.689	ng	97
96) n-Dodecane	27.70	57	4261114	90.347	ng	97
97) Hexachlorobutadiene	28.15	225	1670676	135.654	ng	100
98) Cyclohexanone	22.32	55	2812159	107.877	ng	96
99) tert-Butylbenzene	24.84	119	6415247	112.939	ng	100
100) n-Butylbenzene	25.87	91	7689787	117.629	ng	97

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

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

W 8/28/09
CC 8/28/09

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.48	130	364302	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.43	114	1834071	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	881559	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	703826	24.380	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.52%	
57) Toluene-d8 (SS2)	18.85	98	1980062	25.133	ng	0.00
Spiked Amount	25.000		Recovery	=	100.52%	
73) Bromofluorobenzene (SS3)	23.23	174	574418	25.333	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	558232	21.184	ng	99
3) Dichlorodifluoromethan...	4.83	85	906131	19.640	ng	99
4) Chloromethane	5.14	50	696859	22.470	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	416752	21.872	ng	100
6) Vinyl Chloride	5.59	62	636166	21.868	ng	99
7) 1,3-Butadiene	5.86	54	508308	23.430	ng	98
8) Bromomethane	6.35	94	454619	25.282	ng	98
9) Chloroethane	6.68	64	354543	22.263	ng	98
10) Ethanol	7.10	45	1896077	116.037	ng	100
11) Acetonitrile	7.36	41	972767	21.433	ng	98
12) Acrolein	7.55	56	304856	24.434	ng	98
13) Acetone	7.81	58	1814954	107.402	ng	96
14) Trichlorofluoromethane	8.01	101	892864	21.957	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	2279239	40.571	ng	100
16) Acrylonitrile	8.55	53	688583	24.684	ng	98
17) 1,1-Dichloroethene	9.03	96	481988	24.435	ng	90
18) 2-Methyl-2-Propanol (t...	9.27	59	2577274	45.814	ng	99
19) Methylene Chloride	9.25	84	478398	22.320	ng	95
20) 3-Chloro-1-propene (Al...	9.42	41	801415	24.025	ng	97
21) Trichlorotrifluoroethane	9.67	151	407404	25.301	ng	94
22) Carbon Disulfide	9.62	76	1736171	22.767	ng	98
23) trans-1,2-Dichloroethene	10.68	61	727009	23.711	ng	92
24) 1,1-Dichloroethane	10.99	63	891842	23.256	ng	100
25) Methyl tert-Butyl Ether	11.18	73	1422449	23.483	ng	100
26) Vinyl Acetate	11.28	86	529835	125.114	ng	98
27) 2-Butanone (MEK)	11.67	72	350226	25.658	ng	96
28) cis-1,2-Dichloroethene	12.24	61	711709	24.405	ng	91
29) Diisopropyl Ether	12.64	87	487987	24.483	ng	# 20
30) Ethyl Acetate	12.67	61	362042	49.357	ng	95
31) n-Hexane	12.58	57	817863	22.383	ng	95

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Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.70	83	845298	23.468	ng	97
34) Tetrahydrofuran (THF)	13.38	72	337115	22.773	ng	95
35) Ethyl tert-Butyl Ether	13.45	87	554493	22.676	ng	94
36) 1,2-Dichloroethane	13.80	62	691810	22.893	ng	99
38) 1,1,1-Trichloroethane	14.18	97	775866	22.884	ng	97
39) Isopropyl Acetate	14.83	61	661174	47.393	ng	# 71
40) 1-Butanol	14.87	56	1067569	46.764	ng	# 1
41) Benzene	14.88	78	1924768	22.324	ng	100
42) Carbon Tetrachloride	15.11	117	700366	24.197	ng	100
43) Cyclohexane	15.30	84	1466800	46.160	ng	95
44) tert-Amyl Methyl Ether	15.85	73	1394562	21.838	ng	98
45) 1,2-Dichloropropane	16.11	63	499496	23.446	ng	98
46) Bromodichloromethane	16.37	83	675550	23.777	ng	100
47) Trichloroethene	16.44	130	510996	24.294	ng	98
48) 1,4-Dioxane	16.50	88	408888	24.676	ng	94
49) 2,2,4-Trimethylpentane...	16.52	57	2191198	22.332	ng	99
50) Methyl Methacrylate	16.76	100	416978	52.179	ng	92
51) n-Heptane	16.88	71	517122	23.141	ng	97
52) cis-1,3-Dichloropropene	17.65	75	796707	22.763	ng	100
53) 4-Methyl-2-pentanone	17.76	58	485301	24.646	ng	99
54) trans-1,3-Dichloropropene	18.36	75	837725	25.269	ng	99
55) 1,1,2-Trichloroethane	18.60	97	460889	22.941	ng	99
58) Toluene	18.98	91	2023334	23.845	ng	99
59) 2-Hexanone	19.36	43	1243953	23.987	ng	97
60) Dibromochloromethane	19.53	129	554007	25.970	ng	99
61) 1,2-Dibromoethane	19.86	107	543305	24.380	ng	99
62) n-Butyl Acetate	20.17	43	1455122	24.458	ng	99
63) n-Octane	20.28	57	451615	23.127	ng	96
64) Tetrachloroethene	20.46	166	499063	23.228	ng	100
65) Chlorobenzene	21.34	112	1303802	23.953	ng	100
66) Ethylbenzene	21.82	91	2304825	23.748	ng	99
67) m- & p-Xylenes	22.06	91	3591413	46.481	ng	99
68) Bromoform	22.15	173	444206	24.049	ng	100
69) Styrene	22.51	104	1413368	24.843	ng	99
70) o-Xylene	22.65	91	1856316	23.919	ng	98
71) n-Nonane	22.91	43	1056471	22.652	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	854190	24.007	ng	97
74) Cumene	23.41	105	2272739	23.105	ng	99
75) alpha-Pinene	23.90	93	1136434	22.273	ng	99
76) n-Propylbenzene	24.05	91	2856293	22.859	ng	99
77) 3-Ethyltoluene	24.17	105	2281470	24.245	ng	99
78) 4-Ethyltoluene	24.23	105	2214131	23.841	ng	98
79) 1,3,5-Trimethylbenzene	24.32	105	1909328	24.700	ng	97

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270914.D
 Acq On : 27 Aug 2009 20:55
 Operator : WA/CC
 Sample : 25ng TO-15 ICV
 Misc : S20-08140906/S20-08240912
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 28 06:10:39 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.51	118	1053314	25.946	ng	96
81) 2-Ethyltoluene	24.56	105	2253391	23.336	ng	99
82) 1,2,4-Trimethylbenzene	24.83	105	1903607	24.125	ng	98
83) n-Decane	24.93	57	1110988	23.583	ng	97
84) Benzyl Chloride	25.00	91	1882684	24.099	ng	98
85) 1,3-Dichlorobenzene	25.03	146	1042475	24.444	ng	99
86) 1,4-Dichlorobenzene	25.11	146	1061279	23.895	ng	99
87) sec-Butylbenzene	25.16	105	2551013	23.669	ng	99
88) 4-Isopropyltoluene (p-...	25.35	119	2281213	23.482	ng	100
89) 1,2,3-Trimethylbenzene	25.35	105	1936617	23.416	ng	99
90) 1,2-Dichlorobenzene	25.53	146	967026	24.296	ng	99
91) d-Limonene	25.53	68	801027	25.430	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.06	157	379682	27.265	ng	92
93) n-Undecane	26.46	57	1199529	24.527	ng	98
94) 1,2,4-Trichlorobenzene	27.58	180	753771	26.888	ng	99
95) Naphthalene	27.73	128	2723374	24.973	ng	100
96) n-Dodecane	27.69	57	1252730	22.471	ng	97
97) Hexachlorobutadiene	28.15	225	422597	25.073	ng	100
98) Cyclohexanone	22.30	55	730222	22.320	ng	97
99) tert-Butylbenzene	24.83	119	1819030	23.804	ng	99
100) n-Butylbenzene	25.86	91	2158740	24.566	ng	100

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08270914.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\27\

Name: 25ng TO-15 ICV

Operator: WA/CC

Misc Info: S20-08140906/S20-08240912

Date Acquired: 8/27/2009 20:55

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt. (ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.66	21.2	26.3	80.6	70	130	*
3)	Dichlorodifluoromethane (CFC)	4.83	19.6	26.0	75.4	70	130	*
4)	Chloromethane	5.14	22.5	25.0	90.0	70	130	*
5)	1,2-Dichloro-1,1,2,2-tetrafluoro	5.39	21.9	26.0	84.2	70	130	*
6)	Vinyl Chloride	5.59	21.9	25.3	86.6	70	130	*
7)	1,3-Butadiene	5.86	23.4	26.8	87.3	70	130	*
8)	Bromomethane	6.35	25.3	25.8	98.1	70	130	*
9)	Chloroethane	6.68	22.3	25.5	87.5	70	130	*
10)	Ethanol	7.10	116.0	130.0	89.2	70	130	*
11)	Acetonitrile	7.36	21.4	26.0	82.3	70	130	*
12)	Acrolein	7.55	24.4	26.3	92.8	70	130	*
13)	Acetone	7.81	107.4	132.0	81.4	70	130	*
14)	Trichlorofluoromethane	8.01	22.0	26.3	83.7	70	130	*
15)	2-Propanol (Isopropanol)	8.31	40.6	48.0	84.6	70	130	*
16)	Acrylonitrile	8.55	24.7	25.8	95.7	70	130	*
17)	1,1-Dichloroethene	9.03	24.4	27.5	88.7	70	130	*
18)	2-Methyl-2-Propanol (tert-Butyl Al	9.27	45.8	50.0	91.6	70	130	*
19)	Methylene Chloride	9.25	22.3	26.8	83.2	70	130	*
20)	3-Chloro-1-propene (Allyl Chlor	9.42	24.0	27.0	88.9	70	130	*
21)	Trichlorotrifluoroethane	9.67	25.3	27.5	92.0	70	130	*
22)	Carbon Disulfide	9.62	22.8	26.0	87.7	70	130	*
23)	trans-1,2-Dichloroethene	10.68	23.7	25.5	92.9	70	130	*
24)	1,1-Dichloroethane	10.99	23.3	26.5	87.9	70	130	*
25)	Methyl tert-Butyl Ether	11.18	23.5	26.3	89.4	70	130	*
26)	Vinyl Acetate	11.28	125.1	126.0	99.3	70	130	*
27)	2-Butanone (MEK)	11.67	25.7	26.8	95.9	70	130	*
28)	cis-1,2-Dichloroethene	12.24	24.4	27.0	90.4	70	130	*
29)	Diisopropyl Ether	12.64	24.5	26.5	92.5	70	130	*
30)	Ethyl Acetate	12.67	49.4	52.0	95.0	70	130	*
31)	n-Hexane	12.58	22.4	26.0	86.2	70	130	*
32)	Chloroform	12.70	23.5	27.5	85.5	70	130	*
34)	Tetrahydrofuran (THF)	13.38	22.8	26.5	86.0	70	130	*
35)	Ethyl tert-Butyl Ether	13.45	22.7	25.5	89.0	70	130	*
36)	1,2-Dichloroethane	13.80	22.9	26.3	87.1	70	130	*
38)	1,1,1-Trichloroethane	14.18	22.9	26.0	88.1	70	130	*
39)	Isopropyl Acetate	14.83	47.4	52.3	90.6	70	130	*
40)	1-Butanol	14.87	46.8	52.8	88.6	70	130	*
41)	Benzene	14.88	22.3	25.8	86.4	70	130	*
42)	Carbon Tetrachloride	15.11	24.2	26.3	92.0	70	130	*
43)	Cyclohexane	15.30	46.2	51.8	89.2	70	130	*
44)	tert-Amyl Methyl Ether	15.85	21.8	25.5	85.5	70	130	*
45)	1,2-Dichloropropane	16.11	23.4	26.0	90.0	70	130	*
46)	Bromodichloromethane	16.37	23.8	26.3	90.5	70	130	*
47)	Trichloroethene	16.44	24.3	25.8	94.2	70	130	*
48)	1,4-Dioxane	16.50	24.7	26.0	95.0	70	130	*
49)	2,2,4-Trimethylpentane (Isooctan	16.52	22.3	25.8	86.4	70	130	*
50)	Methyl Methacrylate	16.76	52.2	52.8	98.9	70	130	*

WA 8/28/09

CC
8/28/09

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INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 08270914.D

Acq. Method File: TO15.M

Data File Path: J:\MS13\DATA\2009_08\27\

Name: 25ng TO-15 ICV

Operator: WA/CC

Misc Info: S20-08140906/S20-08240912

Date Acquired: 8/27/2009 20:55

Instrument Name: GCMS13

#	Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
51)	n-Heptane	16.88	23.1	25.8	89.5	70	130	*
52)	cis-1,3-Dichloropropene	17.65	22.8	24.5	93.1	70	130	*
53)	4-Methyl-2-pentanone	17.76	24.6	26.8	91.8	70	130	*
54)	trans-1,3-Dichloropropene	18.36	25.3	27.0	93.7	70	130	*
55)	1,1,2-Trichloroethane	18.60	22.9	26.0	88.1	70	130	*
58)	Toluene	18.98	23.8	26.8	88.8	70	130	*
59)	2-Hexanone	19.36	24.0	27.0	88.9	70	130	*
60)	Dibromochloromethane	19.53	26.0	28.3	91.9	70	130	*
61)	1,2-Dibromoethane	19.86	24.4	26.3	92.8	70	130	*
62)	n-Butyl Acetate	20.17	24.5	27.5	89.1	70	130	*
63)	n-Octane	20.28	23.1	26.3	87.8	70	130	*
64)	Tetrachloroethene	20.46	23.2	25.3	91.7	70	130	*
65)	Chlorobenzene	21.34	24.0	26.5	90.6	70	130	*
66)	Ethylbenzene	21.82	23.7	26.3	90.1	70	130	*
67)	m- & p-Xylenes	22.06	46.5	51.5	90.3	70	130	*
68)	Bromoform	22.15	24.0	26.5	90.6	70	130	*
69)	Styrene	22.51	24.8	26.3	94.3	70	130	*
70)	o-Xylene	22.65	23.9	26.0	91.9	70	130	*
71)	n-Nonane	22.91	22.7	25.8	88.0	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.63	24.0	27.0	88.9	70	130	*
74)	Cumene	23.41	23.1	25.3	91.3	70	130	*
75)	alpha-Pinene	23.90	22.3	24.8	89.9	70	130	*
76)	n-Propylbenzene	24.05	22.9	25.3	90.5	70	130	*
77)	3-Ethyltoluene	24.17	24.2	26.3	92.0	70	130	*
78)	4-Ethyltoluene	24.23	23.8	26.3	90.5	70	130	*
79)	1,3,5-Trimethylbenzene	24.32	24.7	26.5	93.2	70	130	*
80)	alpha-Methylstyrene	24.51	25.9	26.0	99.6	70	130	*
81)	2-Ethyltoluene	24.56	23.3	26.0	89.6	70	130	*
82)	1,2,4-Trimethylbenzene	24.83	24.1	25.5	94.5	70	130	*
83)	n-Decane	24.93	23.6	26.3	89.7	70	130	*
84)	Benzyl Chloride	25.00	24.1	26.8	89.9	70	130	*
85)	1,3-Dichlorobenzene	25.03	24.4	26.0	93.8	70	130	*
86)	1,4-Dichlorobenzene	25.11	23.9	26.3	90.9	70	130	*
87)	sec-Butylbenzene	25.16	23.7	25.8	91.9	70	130	*
88)	4-Isopropyltoluene (p-Cymene)	25.35	23.5	25.0	94.0	70	130	*
89)	1,2,3-Trimethylbenzene	25.35	23.4	26.0	90.0	70	130	*
90)	1,2-Dichlorobenzene	25.53	24.3	25.8	94.2	70	130	*
91)	d-Limonene	25.53	25.4	26.5	95.8	70	130	*
92)	1,2-Dibromo-3-Chloropropane	26.06	27.3	27.0	101.1	70	130	*
93)	n-Undecane	26.46	24.5	26.3	93.2	70	130	*
94)	1,2,4-Trichlorobenzene	27.58	26.9	27.3	98.5	70	130	*
95)	Naphthalene	27.73	25.0	25.0	100.0	70	130	*
96)	n-Dodecane	27.69	22.5	24.3	92.6	70	130	*
97)	Hexachlorobutadiene	28.15	25.1	26.8	93.7	70	130	*
98)	Cyclohexanone	22.30	22.3	24.8	89.9	70	130	*
99)	tert-Butylbenzene	24.83	23.8	26.5	89.8	70	130	*
100)	n-Butylbenzene	25.86	24.6	26.5	92.8	70	130	*

* Denotes Passing Criterion

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CONTINUING CALIBRATION STANDARDS

Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

LM 9/10/09
CC
9-10-09

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	110	-0.01
2	T Propene	1.808	1.396	22.8	79	0.00
3	T Dichlorodifluoromethane (CF	3.166	2.309	27.1	79	0.00
4	T Chloromethane	2.128	1.846	13.3	86	0.00
5	T 1,2-Dichloro-1,1,2,2-tetra	1.308	1.033	21.0	82	0.00
6	T Vinyl Chloride	1.996	1.590	20.3	80	0.00
7	T 1,3-Butadiene	1.489	1.228	17.5	81	0.00
8	T Bromomethane	1.234	1.027	16.8	77	0.00
9	T Chloroethane	1.093	0.948	13.3	86	0.00
10	T Ethanol	1.121	0.981	12.5	88	-0.10
11	T Acetonitrile	3.115	2.550	18.1	86	-0.05
12	T Acrolein	0.856	0.753	12.0	84	-0.02
13	T Acetone	1.160	0.920	20.7	88	-0.05
14	T Trichlorofluoromethane	2.791	2.419	13.3	86	0.00
15	T 2-Propanol (Isopropanol)	3.855	3.389	12.1	92	-0.07
16	T Acrylonitrile	1.914	1.824	4.7	88	-0.03
17	T 1,1-Dichloroethene	1.354	1.189	12.2	88	0.00
18	T 2-Methyl-2-Propanol (tert-B	3.860	3.467	10.2	87	-0.05
19	T Methylene Chloride	1.471	1.191	19.0	85	-0.02
20	T 3-Chloro-1-propene (Allyl C	2.289	2.041	10.8	88	-0.02
21	T Trichlorotrifluoroethane	1.105	0.976	11.7	87	-0.01
22	T Carbon Disulfide	5.233	4.510	13.8	85	0.00
23	T trans-1,2-Dichloroethene	2.104	1.930	8.3	86	-0.01
24	T 1,1-Dichloroethane	2.632	2.346	10.9	89	-0.02
25	T Methyl tert-Butyl Ether	4.157	3.654	12.1	87	-0.02
26	T Vinyl Acetate	0.291	0.310	-6.5	97	-0.03
27	T 2-Butanone (MEK)	0.937	0.906	3.3	88	-0.03
28	T cis-1,2-Dichloroethene	2.001	1.815	9.3	88	-0.02
29	T Diisopropyl Ether	1.368	1.281	6.4	90	-0.02
30	T Ethyl Acetate	0.503	0.481	4.4	87	-0.02
31	T n-Hexane	2.508	2.095	16.5	85	0.00
32	T Chloroform	2.472	2.167	12.3	87	-0.02
33	S 1,2-Dichloroethane-d4 (SS1)	1.981	1.947	1.7	106	-0.02
34	T Tetrahydrofuran (THF)	1.016	0.865	14.9	88	-0.02
35	T Ethyl tert-Butyl Ether	1.678	1.535	8.5	90	-0.01
36	T 1,2-Dichloroethane	2.074	1.819	12.3	88	-0.01
37	IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	110	-0.01
38	T 1,1,1-Trichloroethane	0.462	0.400	13.4	86	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 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	0.190	0.169	11.1	86	-0.02
40 T	1-Butanol	0.311	0.278	10.6	87	-0.06
41 T	Benzene	1.175	0.974	17.1	87	-0.01
42 T	Carbon Tetrachloride	0.395	0.349	11.6	86	-0.01
43 T	Cyclohexane	0.433	0.375	13.4	86	-0.01
44 T	tert-Amyl Methyl Ether	0.870	0.756	13.1	90	-0.02
45 T	1,2-Dichloropropane	0.290	0.256	11.7	87	-0.01
46 T	Bromodichloromethane	0.387	0.346	10.6	86	-0.01
47 T	Trichloroethene	0.287	0.258	10.1	87	0.00
48 T	1,4-Dioxane	0.226	0.213	5.8	88	-0.02
49 T	2,2,4-Trimethylpentane (Iso	1.337	1.168	12.6	88	0.00
50 T	Methyl Methacrylate	0.109	0.106	2.8	90	-0.02
51 T	n-Heptane	0.305	0.275	9.8	89	-0.01
52 T	cis-1,3-Dichloropropene	0.477	0.438	8.2	87	0.00
53 T	4-Methyl-2-pentanone	0.268	0.249	7.1	88	-0.02
54 T	trans-1,3-Dichloropropene	0.452	0.414	8.4	87	0.00
55 T	1,1,2-Trichloroethane	0.274	0.237	13.5	87	-0.01
56 IR	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
57 S	Toluene-d8 (SS2)	2.234	2.300	-3.0	108	0.00
58 T	Toluene	2.406	2.194	8.8	89	0.00
59 T	2-Hexanone	1.471	1.346	8.5	85	-0.02
60 T	Dibromochloromethane	0.605	0.574	5.1	86	0.00
61 T	1,2-Dibromoethane	0.632	0.585	7.4	85	0.00
62 T	n-Butyl Acetate	1.687	1.544	8.5	85	0.00
63 T	n-Octane	0.554	0.502	9.4	88	0.00
64 T	Tetrachloroethene	0.609	0.576	5.4	90	0.00
65 T	Chlorobenzene	1.544	1.420	8.0	88	0.00
66 T	Ethylbenzene	2.752	2.543	7.6	87	0.00
67 T	m- & p-Xylenes	2.191	2.010	8.3	87	-0.01
68 T	Bromoform	0.524	0.516	1.5	88	0.00
69 T	Styrene	1.613	1.573	2.5	89	0.00
70 T	o-Xylene	2.201	2.043	7.2	87	0.00
71 T	n-Nonane	1.323	1.185	10.4	87	0.00
72 T	1,1,2,2-Tetrachloroethane	1.009	0.922	8.6	85	0.00
73 S	Bromofluorobenzene (SS3)	0.643	0.641	0.3	104	0.00
74 T	Cumene	2.790	2.638	5.4	89	0.00
75 T	alpha-Pinene	1.447	1.343	7.2	88	0.00
76 T	n-Propylbenzene	3.543	3.314	6.5	88	0.00

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Evaluate Continuing Calibration Report

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

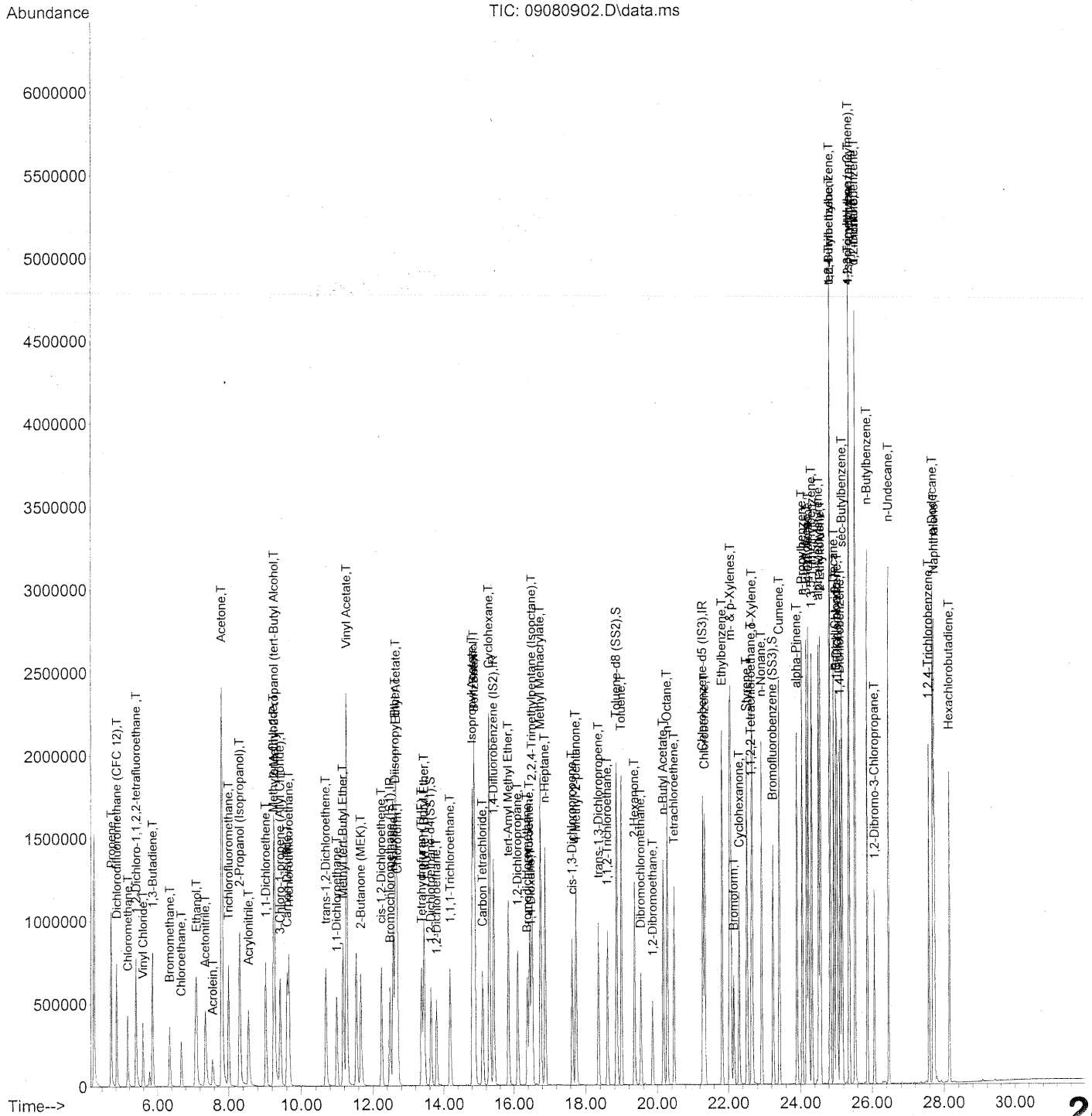
	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T	3-Ethyltoluene	2.669	2.473	7.3	87	0.00
78 T	4-Ethyltoluene	2.634	2.523	4.2	90	0.00
79 T	1,3,5-Trimethylbenzene	2.192	2.074	5.4	88	0.00
80 T	alpha-Methylstyrene	1.151	1.190	-3.4	89	0.00
81 T	2-Ethyltoluene	2.738	2.579	5.8	89	0.00
82 T	1,2,4-Trimethylbenzene	2.238	2.131	4.8	88	0.00
83 T	n-Decane	1.336	1.234	7.6	88	0.00
84 T	Benzyl Chloride	2.215	2.086	5.8	86	0.00
85 T	1,3-Dichlorobenzene	1.209	1.141	5.6	89	0.00
86 T	1,4-Dichlorobenzene	1.260	1.202	4.6	89	0.00
87 T	sec-Butylbenzene	3.057	2.898	5.2	88	0.00
88 T	4-Isopropyltoluene (p-Cymen	2.755	2.651	3.8	88	0.00
89 T	1,2,3-Trimethylbenzene	2.345	2.171	7.4	88	0.00
90 T	1,2-Dichlorobenzene	1.129	1.086	3.8	89	0.00
91 T	d-Limonene	0.893	0.893	0.0	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.395	0.416	-5.3	88	0.00
93 T	n-Undecane	1.387	1.310	5.6	88	0.00
94 T	1,2,4-Trichlorobenzene	0.795	0.810	-1.9	89	0.00
95 T	Naphthalene	3.093	3.108	-0.5	89	0.00
96 T	n-Dodecane	1.581	1.429	9.6	86	0.00
97 T	Hexachlorobutadiene	0.478	0.466	2.5	92	0.01
98 T	Cyclohexanone	0.928	0.878	5.4	87	-0.01
99 T	tert-Butylbenzene	2.167	2.064	4.8	88	0.00
100 T	n-Butylbenzene	2.492	2.393	4.0	88	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : J:\MS13\DATA\2009_09\08\
Data File : 09080902.D
Acq On : 8 Sep 2009 10:15 am
Operator : LM/CC
Sample : 25ng TO-15 CCV STD
Misc : S20-08140906/S20-08240903
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
Quant Method : J:\MS13\METHODS\R13082709.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Fri Aug 28 06:02:46 2009
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
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Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

279/10/09

*CC
9-10-09*

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.49	130	311955	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.43	114	1586809	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.29	82	738308	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.63	65	607303	24.566	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.28%	✓
57) Toluene-d8 (SS2)	18.86	98	1698053	25.735	ng	0.00
Spiked Amount	25.000		Recovery	=	102.96%	✓
73) Bromofluorobenzene (SS3)	23.24	174	473488	24.934	ng	0.00
Spiked Amount	25.000		Recovery	=	99.72%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.66	42	466959	20.694	ng	100
3) Dichlorodifluoromethan...	4.82	85	757918	19.184	ng	99
4) Chloromethane	5.14	50	575773	21.681	ng	99
5) 1,2-Dichloro-1,1,2,2-t...	5.39	135	341539	20.932	ng	100
6) Vinyl Chloride	5.58	62	501920	20.149	ng	99
7) 1,3-Butadiene	5.86	54	459801	24.751	ng	99
8) Bromomethane	6.35	94	326704	21.218	ng	96
9) Chloroethane	6.68	64	299218	21.942	ng	99
10) Ethanol	7.10	45	1590581	113.675	ng	99
11) Acetonitrile	7.35	41	836759	21.530	ng	98
12) Acrolein	7.56	56	253764	23.752	ng	99
13) Acetone	7.81	58	1583495	109.429	ng	96
14) Trichlorofluoromethane	8.01	101	793906	22.800	ng	98
15) 2-Propanol (Isopropanol)	8.31	45	2000120	41.577	ng	99
16) Acrylonitrile	8.55	53	603075	25.247	ng	99
17) 1,1-Dichloroethene	9.03	96	407910	24.149	ng	91
18) 2-Methyl-2-Propanol (t...	9.26	59	2184423	45.347	ng	99
19) Methylene Chloride	9.25	84	398369	21.705	ng	96
20) 3-Chloro-1-propene (Al...	9.43	41	687776	24.078	ng	97
21) Trichlorotrifluoroethane	9.67	151	335050	24.299	ng	96
22) Carbon Disulfide	9.62	76	1508284	23.098	ng	99
23) trans-1,2-Dichloroethene	10.68	61	638266	24.310	ng	93
24) 1,1-Dichloroethane	10.99	63	775688	23.622	ng	100
25) Methyl tert-Butyl Ether	11.17	73	1244843	24.000	ng	98
26) Vinyl Acetate	11.28	86	486919	134.273	ng	# 95
27) 2-Butanone (MEK)	11.66	72	310740	26.585	ng	94
28) cis-1,2-Dichloroethene	12.24	61	618333	24.761	ng	92
29) Diisopropyl Ether	12.64	87	428491	25.106	ng	# 17
30) Ethyl Acetate	12.67	61	320213	50.980	ng	98
31) n-Hexane	12.58	57	713605	22.807	ng	99

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.70	83	724779	23.499	ng	98
34) Tetrahydrofuran (THF)	13.38	72	296701	23.406	ng	96
35) Ethyl tert-Butyl Ether	13.45	87	494036	23.594	ng	91
36) 1,2-Dichloroethane	13.80	62	601560	23.246	ng	98
38) 1,1,1-Trichloroethane	14.19	97	667451	22.754	ng	98
39) Isopropyl Acetate	14.82	61	562450	46.599	ng	# 74
40) 1-Butanol	14.87	56	913845	46.268	ng	# 1
41) Benzene	14.88	78	1638497	21.965	ng	100
42) Carbon Tetrachloride	15.11	117	597817	23.873	ng	100
43) Cyclohexane	15.30	84	1280190	46.565	ng	96
44) tert-Amyl Methyl Ether	15.84	73	1248115	22.590	ng	98
45) 1,2-Dichloropropane	16.11	63	427899	23.215	ng	100
46) Bromodichloromethane	16.38	83	593368	24.138	ng	100
47) Trichloroethene	16.45	130	433363	23.813	ng	100
48) 1,4-Dioxane	16.49	88	361814	25.238	ng	94
49) 2,2,4-Trimethylpentane...	16.53	57	1927898	22.710	ng	98
50) Methyl Methacrylate	16.76	100	360026	52.073	ng	92
51) n-Heptane	16.89	71	463058	23.950	ng	96
52) cis-1,3-Dichloropropene	17.65	75	689238	22.761	ng	100
53) 4-Methyl-2-pentanone	17.76	58	434926	25.529	ng	99
54) trans-1,3-Dichloropropene	18.36	75	722995	25.207	ng	100
55) 1,1,2-Trichloroethane	18.60	97	395309	22.743	ng	99
58) Toluene	18.99	91	1749812	24.622	ng	98
59) 2-Hexanone	19.36	43	1092906	25.163	ng	97
60) Dibromochloromethane	19.53	129	488120	27.321	ng	100
61) 1,2-Dibromoethane	19.87	107	458001	24.539	ng	100
62) n-Butyl Acetate	20.17	43	1253862	25.164	ng	98
63) n-Octane	20.28	57	397349	24.296	ng	97
64) Tetrachloroethene	20.48	166	434004	24.119	ng	100
65) Chlorobenzene	21.35	112	1132134	24.834	ng	100
66) Ethylbenzene	21.83	91	1990363	24.487	ng	100
67) m- & p-Xylenes	22.06	91	3087360	47.711	ng	98
68) Bromoform	22.16	173	393507	25.438	ng	100
69) Styrene	22.51	104	1245288	26.136	ng	98
70) o-Xylene	22.66	91	1598957	24.600	ng	97
71) n-Nonane	22.92	43	927476	23.745	ng	97
72) 1,1,2,2-Tetrachloroethane	22.63	83	729936	24.495	ng	97
74) Cumene	23.42	105	2009635	24.394	ng	98
75) alpha-Pinene	23.91	93	1003603	23.486	ng	98
76) n-Propylbenzene	24.05	91	2524878	24.127	ng	99
77) 3-Ethyltoluene	24.18	105	1993784	25.299	ng	96
78) 4-Ethyltoluene	24.23	105	2034510	26.158	ng	99
79) 1,3,5-Trimethylbenzene	24.33	105	1672033	25.827	ng	98

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 08 10:53:03 2009
 Quant Method : J:\MS13\METHODS\R13082709.M
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 QLast Update : Fri Aug 28 06:02:46 2009
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.52	118	941609	27.695	ng	97
81) 2-Ethyltoluene	24.57	105	2003234	24.771	ng	99
82) 1,2,4-Trimethylbenzene	24.84	105	1667424	25.232	ng	99
83) n-Decane	24.94	57	984284	24.947	ng	97
84) Benzyl Chloride	25.01	91	1693897	25.890	ng	98
85) 1,3-Dichlorobenzene	25.03	146	920156	25.762	ng	99
86) 1,4-Dichlorobenzene	25.11	146	940586	25.287	ng	99
87) sec-Butylbenzene	25.17	105	2268377	25.130	ng	99
88) 4-Isopropyltoluene (p-...	25.36	119	2019845	24.826	ng	100
89) 1,2,3-Trimethylbenzene	25.37	105	1718225	24.806	ng	99
90) 1,2-Dichlorobenzene	25.54	146	849587	25.487	ng	98
91) d-Limonene	25.54	68	720148	27.298	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.07	157	338061	28.986	ng	92
93) n-Undecane	26.47	57	1056416	25.792	ng	99
94) 1,2,4-Trichlorobenzene	27.59	180	669866	28.532	ng	98
95) Naphthalene	27.74	128	2431985	26.628	ng	100
96) n-Dodecane	27.70	57	1046604	22.416	ng	98
97) Hexachlorobutadiene	28.16	225	378284	26.799	ng	100
98) Cyclohexanone	22.30	55	634911	23.172	ng	96
99) tert-Butylbenzene	24.84	119	1615038	25.236	ng	99
100) n-Butylbenzene	25.87	91	1929542	26.219	ng	99

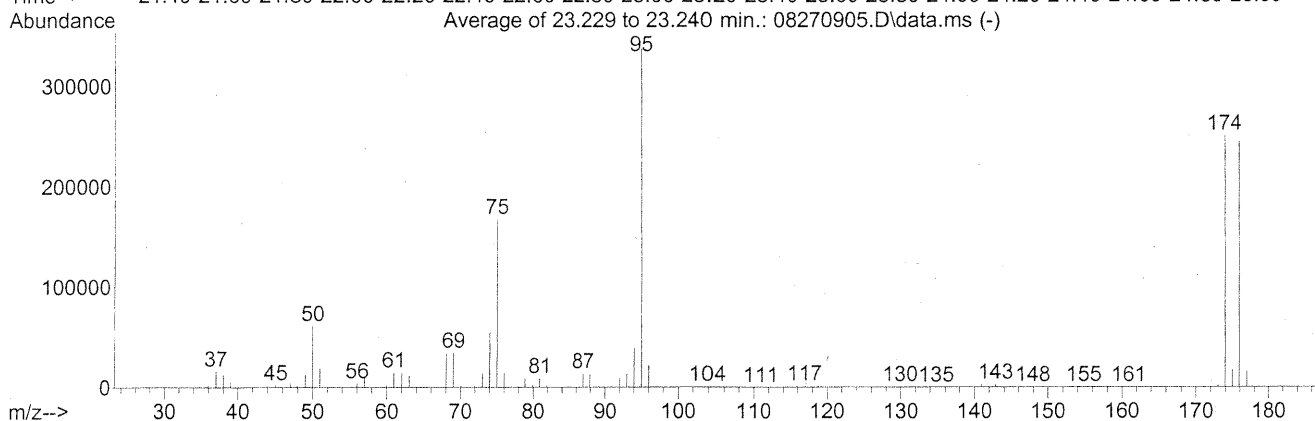
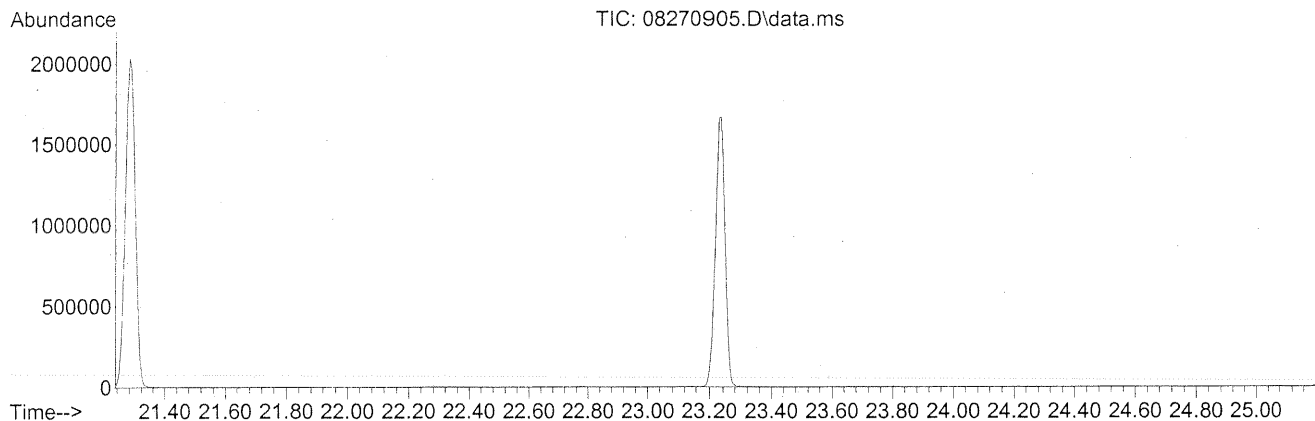
(#) = qualifier out of range (m) = manual integration (+) = signals summed

BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2009_08\27\
 Data File : 08270905.D
 Acq On : 27 Aug 2009 14:50
 Operator : WA/CC
 Sample : 25ng BFB
 Misc : S20-08140906
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Thu Aug 27 20:40:00 2009



AutoFind: Scans 3351, 3352, 3353; Background Corrected with Scan 3340

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.3	61821	PASS
75	95	30	66	49.9	168149	PASS
95	95	100	100	100.0	336960	PASS
96	95	5	9	6.5	21936	PASS
173	174	0.00	2	1.0	2440	PASS
174	95	50	120	74.4	250560	PASS
175	174	4	9	6.9	17332	PASS
176	174	93	101	97.7	244779	PASS
177	176	5	9	6.5	15927	PASS

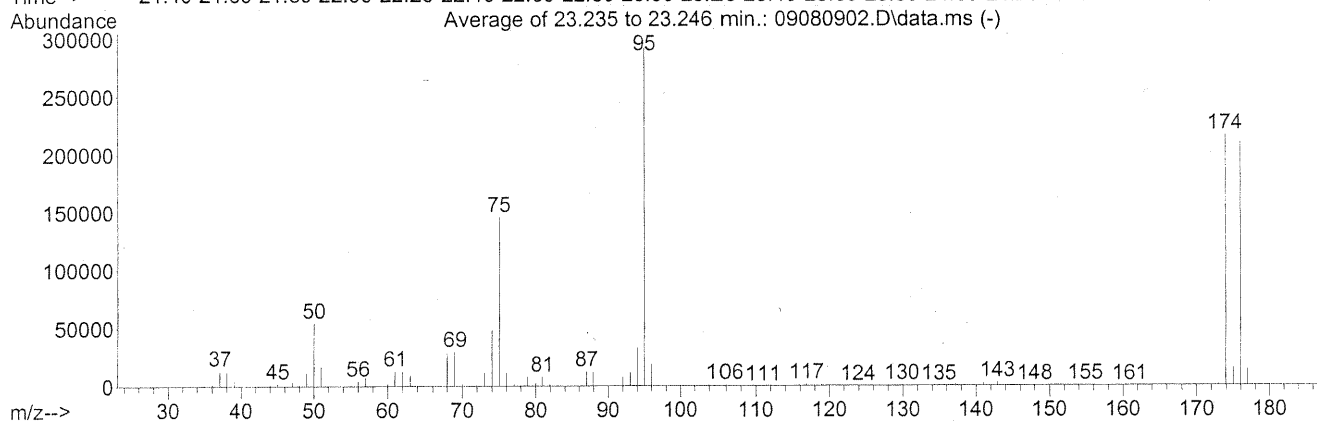
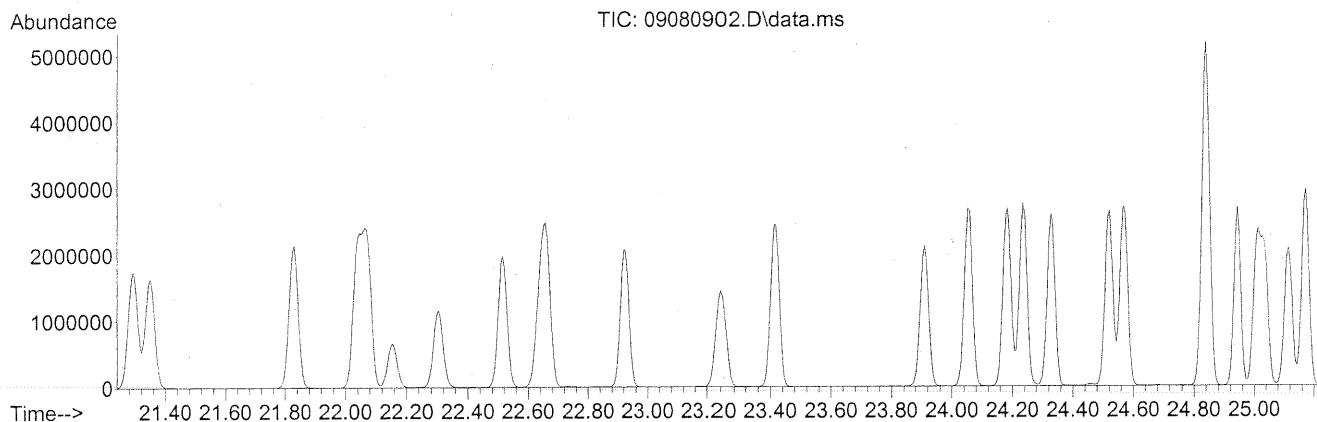
WA 8/28/09
CC 8/28/09

Data Path : J:\MS13\DATA\2009_09\08\
 Data File : 09080902.D
 Acq On : 8 Sep 2009 10:15 am
 Operator : LM/CC
 Sample : 25ng TO-15 CCV STD
 Misc : S20-08140906/S20-08240903
 ALS Vial : 4 Sample Multiplier: 1

LM 9/19/09
CC
9-10-09

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13082709.M
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
 Last Update : Fri Aug 28 06:02:46 2009



AutoFind: Scans 3352, 3353, 3354; Background Corrected with Scan 3342

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	54851	PASS
75	95	30	66	50.1	146197	PASS
95	95	100	100	100.0	291520	PASS
96	95	5	9	6.6	19219	PASS
173	174	0.00	2	0.8	1751	PASS
174	95	50	120	74.1	216107	PASS
175	174	4	9	7.2	15593	PASS
176	174	93	101	97.1	209771	PASS
177	176	5	9	6.7	14107	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/26/09 10:15	08260902.D	5ng TO-15 CCV STD	S20-08140906/S20-07310904	WA/CC	9	Passed (EM=1424)
2	08/26/09 11:30	08260903.D	TO-15 Method Blank (1000ml)	S20-08140906	WA/CC	4	Passed
3	08/26/09 12:23	08260904.D	P0902949-001 dil (25mL)	[REDACTED]	WA/CC	7	
4	08/26/09 13:03	08260905.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
5	08/26/09 13:43	08260906.D	P0902876-001 dil (200mL)	[REDACTED]	WA/CC	8	
6	08/26/09 14:42	08260907.D	P0902949-006 (0.25mL)	[REDACTED]	WA/CC	12	
7	08/26/09 15:22	08260908.D	System		WA/CC	16	
8	08/26/09 16:02	08260909.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	case file
9	08/26/09 16:43	08260910.D	P0902949-005 (20mL)	[REDACTED]	WA/CC	15	
10	08/26/09 17:25	08260911.D	P0902876-007 (1000mL)	[REDACTED]	WA/CC	1	
11	08/26/09 18:05	08260912.D	P0902949-005 dup (20mL)	[REDACTED]	WA/CC	15	Passed
12	08/26/09 18:47	08260913.D	P0902876-008 (1000mL)	[REDACTED]	WA/CC	2	
13	08/26/09 19:28	08260914.D	P0902876-009 (1000mL)	[REDACTED]	WA/CC	3	
14	08/26/09 20:09	08260915.D	P0902876-010 (1000mL)	[REDACTED]	WA/CC	5	
15	08/26/09 20:51	08260916.D	P0902876-011 (1000mL)	[REDACTED]	WA/CC	6	
16	08/26/09 21:32	08260917.D	System		WA/CC	16	
17	08/26/09 22:13	08260918.D	P0902876-004 dil (200mL)	[REDACTED]	WA/CC	12	
18	08/26/09 22:53	08260919.D	P0902876-005 dil (200mL)	[REDACTED]	WA/CC	14	
19	08/26/09 23:34	08260920.D	P0902949-001 (250mL)	[REDACTED]	WA/CC	7	
20	08/27/09 0:16	08260921.D	P0902949-003 (1000mL)	[REDACTED]	WA/CC	10	
21	08/27/09 0:58	08260922.D	P0902949-004 (1000mL)	[REDACTED]	WA/CC	11	
22	08/27/09 1:38	08260923.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	WA/CC	13	Passed
23	08/27/09 4:32	08260924.D	Blank		WA/CC	4	
24	08/27/09 6:39	08260925.D	P0902876-009 (1000mL)	[REDACTED]	WA/CC	3	
25	08/27/09 7:25	08260926.D	P0902949-002 (200mL)	[REDACTED]	WA/CC	8	EM 8/27

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	08/27/09 11:46	08270902.D	200ng/L STD Check	S20-08140906/S20-08240903	WA/CC	4	
2	08/27/09 13:01	08270903.D	4ng/L STD Check	S20-08140906/S20-08240906	WA/CC	14	
3	08/27/09 14:10	08270904.D	0.1ng STD Check (EM=1459)	S20-08140906/S20-08240906	WA/CC	14	
4	08/27/09 14:50	08270905.D	25ng BFB	S20-08140906	WA/CC	4	Passed
5	08/27/09 15:31	08270906.D	0.1ng TO-15 ICAL	S20-08140906/S20-08240906	WA/CC	14	ICAL OK all
6	08/27/09 16:11	08270907.D	0.2ng TO-15 ICAL	S20-08140906/S20-08240906	WA/CC	14	compounds
7	08/27/09 16:52	08270908.D	0.5ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	0.1ng->100ng
8	08/27/09 17:32	08270909.D	1.0ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	except: Acrolein,
9	08/27/09 18:13	08270910.D	5.0ng TO-15 ICAL	S20-08140906/S20-07310904	WA/CC	4	THF(0.5->100ng);
10	08/27/09 18:53	08270911.D	25ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	IPA (0.2->100ng)
11	08/27/09 19:34	08270912.D	50ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	TBA(0.1->50ng)
12	08/27/09 20:14	08270913.D	100ng TO-15 ICAL	S20-08140906/S20-08240903	WA/CC	4	
13	08/27/09 20:55	08270914.D	25ng TO-15 ICV	S20-08140906/S20-08240912	WA/CC	13	Passed all

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18	09/03/09 23:04	09030919.D	P0903021-001 (1000ml)	[REDACTED]	LM/CC	10	
19	09/03/09 23:46	09030920.D	P0903021-002 (1000ml)	[REDACTED]	LM/CC	14	
20	09/04/09 0:28	09030921.D	P0903021-003 (1000ml)	[REDACTED]	LM/CC	15	
21	09/04/09 1:10	09030922.D	P0903021-004 (1000ml)	[REDACTED]	LM/CC	16	
22	09/04/09 1:52	09030923.D	P0903021-005 (1000ml)	[REDACTED]	LM/CC	1	
23	09/04/09 2:33	09030924.D	P0902985-001 (600ml)	[REDACTED]	LM/CC	10	

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	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
	09/04/09 8:52	09040901.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903	LM/CC	4	Passed ← Hand entered
1	09/04/09 9:47	09040902.D	CAS CAN QC C3 3729J	1SC00505 (400ml)	LM/CC	2	Passed
2	09/04/09 10:53	09040903.D	TO-15 Method Blank (1000ml)	S20-08140906	LM/CC	4	Passed
3	09/04/09 11:51	09040904.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	LM/CC	2	Passed
4	09/04/09 12:32	09040905.D	25ng TO-15 LCSD STD	S20-08140906/S20-08240912	LM/CC	2	Passed
5	09/04/09 13:13	09040906.D	P0903135-002 (2.0ml)	[REDACTED]	LM/CC	4	Case File ran high
6	09/04/09 13:53	09040907.D	P0903135-003 (50ml)	[REDACTED]	LM/CC	3	
7	09/04/09 14:34	09040908.D	P0903135-004 (5.0ml)	[REDACTED]	LM/CC	4	Case File ran high
8	09/04/09 15:34	09040909.D	P0903135-006 (50ml)	[REDACTED]	LM/CC	8	
9	09/04/09 16:14	09040910.D	P0903135-007 (100ml)	[REDACTED]	LM/CC	9	
10	09/04/09 16:55	09040911.D	P0903135-009 (25ml)	[REDACTED]	LM/CC	10	
11	09/04/09 18:19	09040912.D	P0903135-009 (50ml)	[REDACTED]	LM/CC	10	
12	09/04/09 19:00	09040913.D	P0903135-010 (50ml)	[REDACTED]	LM/CC	11	
13	09/04/09 19:40	09040914.D	P0903135-011 (100ml)	[REDACTED]	LM/CC	12	
14	09/04/09 20:20	09040915.D	P0903135-011dil (25ml)	[REDACTED]	LM/CC	12	
15	09/04/09 21:01	09040916.D	P0903135-002 (20ml)	[REDACTED]	LM/CC	5	
16	09/04/09 21:41	09040917.D	P0903135-002dup (20ml)	[REDACTED]	LM/CC	5	Passed
17	09/04/09 22:22	09040918.D	P0903135-004 (20ml)	[REDACTED]	LM/CC	7	
18	09/04/09 23:04	09040919.D	P0903022-001 (1000ml)	[REDACTED]	LM/CC	1	
19	09/04/09 23:46	09040920.D	P0903022-001dup (1000ml)	[REDACTED]	LM/CC	1	Case File not used - RPD did not Pass
20	09/05/09 0:28	09040921.D	P0903022-002 (1000ml)	[REDACTED]	LM/CC	2	
21	09/05/09 1:10	09040922.D	P0903022-003 (1000ml)	[REDACTED]	LM/CC	3	
22	09/05/09 1:52	09040923.D	P0903022-004 (1000ml)	[REDACTED]	LM/CC	6	
23	09/05/09 2:33	09040924.D	P0903022-005 (1000ml)	[REDACTED]	LM/CC	8	

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	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
	09/08/09 9:18	09080901.D	blank (100ml)	S20-08140906	LM/CC	4	
1	09/08/09 10:15	09080902.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903	LM/CC	4	Passed
2	09/08/09 11:34	09080903.D	TO-15 Method Blank(1000ml)	S20-08140906	LM/CC	4	Passed
3	09/08/09 12:30	09080904.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	LM/CC	5	Passed
4	09/08/09 13:10	09080905.D	25ng TO-15 LCSD STD	S20-08140906/S20-08240912	LM/CC	5	Passed
5	09/08/09 14:33	09080906.D	CAS CAN QC C3 3738 (1000ml)	AC00601	LM/CC	12	Passed
6	09/08/09 15:13	09080907.D	P0902973-002 (3.5ml)	[REDACTED]	LM/CC	4	
7	09/08/09 15:53	09080908.D	P0902973-004 (5ml)	[REDACTED]	LM/CC	4	

RPD failed for Free 1/3-0

cont. →

Out of Order

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	09/08/09 9:18	09080901.D	blank (100ml)	S20-08140906	LM/CC	4	
2	09/08/09 10:15	09080902.D	25ng TO-15 CCV STD	S20-08140906/S20-08240903	LM/CC	4	
3	09/08/09 11:34	09080903.D	TO-15 Method Blank(1000ml)	S20-08140906	LM/CC	4	
4	09/08/09 12:30	09080904.D	25ng TO-15 LCS STD	S20-08140906/S20-08240912	LM/CC	5	
5	09/08/09 13:10	09080905.D	25ng TO-15 LCSD STD	S20-08140906/S20-08240912	LM/CC	5	
6	09/08/09 14:33	09080906.D	CAS CAN QC C3 3738 (1000ml)	AC00601	LM/CC	12	
7	09/08/09 15:13	09080907.D	P0902973-003 (3.5ml)	[REDACTED]	LM/CC	4	
8	09/08/09 15:53	09080908.D	P0902973-004 (5ml)	[REDACTED]	LM/CC	4	
9	09/08/09 16:33	09080909.D	P0902973-003dup (3.5ml)	[REDACTED]	LM/CC	4	
10	09/08/09 17:15	09080910.D	P0902973-005 (8.0ml)	[REDACTED]	LM/CC	4	
11	09/08/09 17:55	09080911.D	P0902973-006 (1.5ml)	[REDACTED]	LM/CC	4	
12	09/08/09 18:39	09080912.D	P0902973-007 (1.0ml)	[REDACTED]	LM/CC	4	
13	09/08/09 19:20	09080913.D	blank (100ml)	rinse	LM/CC	4	
14	09/08/09 20:02	09080914.D	P0903047-006 (1000ml)	[REDACTED]	LM/CC	8	
15	09/08/09 20:43	09080915.D	P0903047-001 (1000ml)	[REDACTED]	LM/CC	1	
16	09/08/09 21:25	09080916.D	P0903047-002 (1000ml)	[REDACTED]	LM/CC	2	
17	09/08/09 22:07	09080917.D	P0903047-003 (1000ml)	[REDACTED]	LM/CC	3	
18	09/08/09 22:49	09080918.D	P0903047-004 (1000ml)	[REDACTED]	LM/CC	6	
19	09/08/09 23:31	09080919.D	P0903047-005 (1000ml)	[REDACTED]	LM/CC	7	
20	09/09/09 0:13	09080920.D	P0903136-001 (1000ml)	[REDACTED]	LM/CC	9	
21	09/09/09 0:55	09080921.D	P0903136-002 (1000ml)	[REDACTED]	LM/CC	10	
22	09/09/09 1:37	09080922.D	P0903136-003 (1000ml)	[REDACTED]	LM/CC	11	
23	09/09/09 2:19	09080923.D	P0903081-001 (1000ml)	EH&E 104764	LM/CC	12	
24	09/09/09 3:01	09080924.D	P0903081-002 (1000ml)	EH&E 104765	LM/CC	13	
25	09/09/09 3:44	09080925.D	P0903081-003 (1000ml)	EH&E 104766	LM/CC	14	
26	09/09/09 4:26	09080926.D	P0903081-004 (1000ml)	EH&E 104767	LM/CC	15	
27	09/09/09 5:08	09080927.D	P0903081-005 (1000ml)	EH&E 104768	LM/CC	16	
28	09/09/09 5:48	09080928.D	blank (100ml)	rinse	LM/CC	4	