

## LABORATORY REPORT

June 11, 2008

Robert Kennedy  
ENSR  
2 Technology Park Drive  
Westford, MA 01886

### RE: Soil Gas Sampling / 04020-023-4311

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on May 23, 2008. For your reference, these analyses have been assigned our service request number P0801548.

All analyses were performed in accordance with our laboratory's quality assurance program. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 1410 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. 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.**

*Kelly Horiuchi*

Kelly Horiuchi  
Project Manager

Page  
1 of 1410

Client: ENSR  
Project: Soil Gas Sampling / 04020-023-4311

CAS Project No: P0801548

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### CASE NARRATIVE

The samples were received intact under chain of custody on May 23, 2008 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.

#### Helium Analysis

The samples were analyzed for helium according to modified EPA Method 3C using a gas chromatograph equipped with a thermal conductivity detector (TCD).

#### Volatile Organic Compound Analysis

The samples were also 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 Summa canisters were cleaned, prior to sampling, down to the method reporting limit (MRL) reported for this project. Therefore, any result reported below the MRL may be biased high.

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*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: ENSR

Folder: P0801548

Project: Soil Gas Sampling 04020-023-4311

### Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pi2 (Hg)	Pi2 (psig)	Cont ID	Order #	FC ID	Order #
P0801548-001.01	SG91B-05	6.0 L-Summa Canister Source	-6.7	-3.3	3.5		SC00912	8863	OA00810	8863
P0801548-002.01	SG93B-05	6.0 L-Summa Canister Source	-7.3	-3.6	3.5		SC00372	8863	OA00817	8863
P0801548-003.01	SG46B-05	6.0 L-Summa Canister Source	-6.6	-3.2	3.5		SC00651	8863	OA00821	8863
P0801548-004.01	SG68B-05	6.0 L-Summa Canister Source	-5.9	-2.9	3.5		SC00526	8863	OA00819	8863
P0801548-005.01	SG67B-05	6.0 L-Summa Canister Source	-7.8	-3.8	3.5		SC00533	8863	OA00801	8863
P0801548-006.01	SG51B-05	6.0 L-Summa Canister Source	-5.7	-2.8	3.5		SC00105	8863	OA00808	8863
P0801548-007.01	SG51B-05D	6.0 L-Summa Canister Source	-6.0	-2.9	3.6		SC00292	8863	OA00808	8863
P0801548-008.01	SG42B-05	6.0 L-Summa Canister Source	-10.8	-5.3	3.5		SC00510	8863	OA00820	8863
P0801548-009.01	SG69B-05	6.0 L-Summa Canister Source	-7.1	-3.5	3.5		SC00834	8863	OA00814	8863
P0801548-010.01	SG48B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.5		SC00786	8863	OA00019	8862
P0801548-011.01	SG47B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.6		SC00995	8863	OA00034	8862
P0801548-012.01	SG53B-05	6.0 L-Summa Canister Source	-7.5	-3.7	3.5		SC00627	8863	OA00089	8862
P0801548-013.01	SG53B-05D	6.0 L-Summa Canister Source	-3.2	-1.6	3.5		SC00043	8863	OA00089	8862
P0801548-014.01	SG49B-05	6.0 L-Summa Canister Source	-7.2	-3.5	3.5		SC00547	8863	OA00802	8863
P0801548-015.01	SG66B-05	6.0 L-Summa Canister Source	-5.8	-2.8	3.5		SC00042	8863	OA00813	8863
P0801548-016.01	SG50B-05	6.0 L-Summa Canister Source	-9.2	-4.5	3.5		SC00553	8912	OA00559	8912
P0801548-017.01	SG45B-05	6.0 L-Summa Canister Source	-4.8	-2.4	3.6		SC00908	8912	OA00662	8912
P0801548-018.01	SG54B-05	6.0 L-Summa Canister Source	-9.2	-4.5	3.5		SC00295	8912	OA00564	8912
P0801548-019.01	SG87B-05	6.0 L-Summa Canister Source	-12.9	-6.3	3.5		SC00660	8912	OA00563	8912

Client: ENSR

Folder: P0801548

Project: Soil Gas Sampling 04020-023-4311

### Detailed Sample Information

<u>CAS Sample ID</u>	<u>Client Sample ID</u>	<u>Container Type</u>	<u>Pi1 (Hg)</u>	<u>Pi1 (psig)</u>	<u>Pf1</u>	<u>Pi2 (Hg)</u>	<u>Pi2 (psig)</u>	<u>Pf2</u>	<u>Cont ID</u>	<u>Order #</u>	<u>FC ID</u>	<u>Order #</u>
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#### Miscellaneous Items - received

- AVG00668
- AVG00630
- OA00803
- AVG00702
- AVG00739
- AVG00469
- AVG00642
- AVG00752
- AVG00681
- AVG00770
- AVG00678
- AVG00129
- AVG00730
- AVG00350
- AVG00605
- AVG00064
- AVG00431
- AVG00437
- AVG00566
- OA00811
- SC00074

# Air - Chain of Custody Record & Analytical Service Request

2655 Park Center Drive, Suite A  
 Simi Valley, California 93065  
 Phone (805) 526-7161  
 Fax (805) 526-7270



CAS Project No.  
 10501545

Requested Turnaround Time in Business Days (Surcharges) please circle  
 1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Contact  
 KELLY KORINCHI

Analysis Method and/or Analytes

Project Name  
 SOIL GAS SAMPLING

Project Number  
 04020-023-4311

P.O. # / Billing Information

Company Name & Address (Reporting Information)  
 ENSR  
 1220 AVENIDA ACASO  
 CAMARILLO, CA 93012

Project Manager  
 MIKE FLACK  
 Phone 805-388-3775 Fax 805-388-3577

Sampler (Print & Sign)  
 CELSO R. ALVAREZ

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume	Comments
S491B-05	1-6.7	5/21/08	0700	AIR	SC00870	FA00810	6L	
S493B-05	2-7.3	5/21/08	0754	AIR	SC00872	FA00817	6L	
S496B-05	3-6.6	5/21/08	0905	AIR	SC00661	FA00821	6L	
S498B-05	4-5.9	5/21/08	1008	AIR	SC00526	FA00819	6L	
S497B-05	5-7.8	5/21/08	1107	AIR	SC00533	FA00801	6L	
S495B-05	6-5.7	5/21/08	1333	AIR	SC00105	FA00808	6L	
S494B-05D	7-6.2	5/21/08	1415	AIR	SC00797	FA00808	6L	
S492B-05	8-10.8	5/21/08	0715	AIR	SC00510	FA00820	6L	
S499B-05	9-7.1	5/21/08	0819	AIR	SC00834	FA00814	6L	
S498B-05	10-6.5	5/21/08	0930	AIR	SC00786	FA00019	6L	
S497B-05	11-7.6	5/21/08	1045	AIR	SC00995	FA00034	6L	
S493B-05	12-7.5	5/21/08	1328	AIR	SC00627	FA00089	6L	
S493B-05D	13-3.2	5/21/08	1357	AIR	SC00043	FA00089	6L	
S494B-05	14-7.2	5/22/08	0936	AIR	SC00547	FA00802	6L	
S496B-05	15-5.8	5/22/08	0947	AIR	SC00042	FA00813	6L	

TO-15  
 HELIUM

220W  
 \* 16 CANISTERS  
 SHIPPED:  
 DO NOT ANALYZE  
 # SC00074  
 - CLEAN ONLY

Report Tier Levels - please select  
 Tier I - (Results/Default if not specified)  
 Tier II - (Results + QC)  
 Tier III - (Data Validation Package) 10% Surcharge  
 Tier V - (client specified)

Relinquished by: (Signature) CELRO - g	Date: 5/21/08	Time: 1442	Received by: (Signature) [Signature]	Date: 5/21/08	Time: 0905
Relinquished by: (Signature) 51	Date:	Time:	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:

Project Requirements (MRLs, QAPP)  
 EDD Units:  
 Type:  
 Cooler / Blank  
 Temperature °C



2655 Park Center Drive, Suite A  
Simi Valley, California 93065  
Phone (805) 526-7161  
Fax (805) 526-7270

CAS Project No.  
**POS01548**

Requested Turnaround Time in Business Days (Surcharges) please circle  
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day - Standard

CAS Contact  
**Kelley Horvath**

Project Name  
**Soil Gas Sampling**

Company Name & Address (Reporting Information)  
**ENSR  
1220 Avenida Azusa  
Camarillo, CA 93012**

Analysis Method and/or Analytes  
**Helium**

Project Number  
**04020-023-4311**

P.O. # / Billing Information  
**P.O. # / Billing Information**

Project Manager  
**MIKE FLACK**

Phone  
**805-388-3775**

Fax  
**805-388-3571**

Email Address for Result Reporting

Sampler (Print & Sign)  
**Cassandra Weir**

Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar Code # - AC, SC, etc.)	Flow Controller (Bar Code - FC #)	Sample Volume		Comments
<b>59 50B-05</b>	<b>09-9-2</b>	<b>5/22/08</b>	<b>12:10</b>	<b>Air</b>	<b>SC00553</b>	<b>DA00561</b>	<b>6L</b>	<b>X</b>	<b>Helium</b>
<b>59 95B-05</b>	<b>09-9-8</b>	<b>5/22/08</b>	<b>13:28</b>	<b>Air</b>	<b>SC00108</b>	<b>DA00602</b>	<b>6L</b>	<b>X</b>	<b>Helium</b>
<b>59 54B-05</b>	<b>09-9-2</b>	<b>5/22/08</b>	<b>13:19</b>	<b>Air</b>	<b>SC00295</b>	<b>DA00564</b>	<b>6L</b>	<b>X</b>	<b>Helium</b>
<b>59 87B-05</b>	<b>09-11-9</b>	<b>5/22/08</b>	<b>12:27</b>	<b>Air</b>	<b>SC00680</b>	<b>DA00563</b>	<b>6L</b>	<b>X</b>	<b>Helium</b>

Project Requirements (MRLs, QAPP)

Report Tier Levels - please select

Tier I - (Results/Default if not specified)

Tier II - (Results + QC)

Tier III - (Data Validation Package) 10% Surcharge

Tier V - (client specified)

EDD required Yes / No

Type:

Date: Time:

Cooler / Blank Temperature °C

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

Client: ENSR  
Project: Soil Gas Sampling / 04020-023-4311  
Sample(s) received on: 5/23/2008

Work order: P0801548  
Date opened: 5/23/2008 by: MZAMORA

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

- |    |   | <b>Yes</b>                          | <b>No</b>                           | <b>N/A</b>                          |
|----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1  | Were <b>sample containers</b> properly marked with client sample ID?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 2  | Container(s) <b>supplied by CAS</b> ?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 3  | Did <b>sample containers</b> arrive in good condition?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 4  | Were <b>chain-of-custody</b> papers used and filled out?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5  | Did <b>sample container labels</b> and/or tags agree with custody papers?                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 6  | Was <b>sample volume</b> received adequate for analysis?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7  | Are samples within specified holding times?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 8  | Was proper <b>temperature</b> (thermal preservation) of cooler at receipt adhered to?                         | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Cooler Temperature _____ °C    Blank Temperature _____ °C   |                                     |                                     |                                     |
| 9  | Was a <b>trip blank</b> received?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|    | Trip blank supplied by CAS: Serial # _____ -TB _____  |                                     |                                     |                                     |
| 10 | Were <b>custody seals</b> 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"/> |
| 11 | Do containers have appropriate <b>preservation</b> , 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 <b>pH</b> preserved?                              | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|    | Were <b>VOA vials</b> 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"/> |
| 12 | <b>Tubes:</b> 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"/> |
| 13 | <b>Badges:</b> 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
P0801548-001.01	6.0 L Source Can					
P0801548-002.01	6.0 L Source Can					
P0801548-003.01	6.0 L Source Can					
P0801548-004.01	6.0 L Source Can					
P0801548-005.01	6.0 L Source Can					
P0801548-006.01	6.0 L Source Can					
P0801548-007.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_  
Samples -006 & -007 have sample IDs of SG51B listed on the COC and SG5B listed on the container tags.

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

Client: ENSR Work order: P0801548  
 Project: Soil Gas Sampling / 04020-023-4311  
 Sample(s) received on: 5/23/2008 Date opened: 5/23/2008 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0801548-008.01	6.0 L Source Can					
P0801548-009.01	6.0 L Source Can					
P0801548-010.01	6.0 L Source Can					
P0801548-011.01	6.0 L Source Can					
P0801548-012.01	6.0 L Source Can					
P0801548-013.01	6.0 L Source Can					
P0801548-014.01	6.0 L Source Can					
P0801548-015.01	6.0 L Source Can					
P0801548-016.01	6.0 L Source Can					
P0801548-017.01	6.0 L Source Can					
P0801548-018.01	6.0 L Source Can					
P0801548-019.01	6.0 L Source Can					

Explain any discrepancies: (include lab sample ID numbers): \_\_\_\_\_



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Helium**

**Test Code:** EPA 3C Modified  
**Instrument ID:** HP5890 II/GC8/TCD  
**Analyst:** Zheng Wang/Wade Henton/Chris Cornett  
**Sampling Media:** 6.0 L Summa Canister(s)  
**Test Notes:**

**Date(s) Collected:** 5/21 - 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG91B-05	P0801548-001	1.00	1.60	ND	40	
SG93B-05	P0801548-002	1.00	1.64	ND	41	
SG46B-05	P0801548-003	1.00	1.58	ND	40	
SG68B-05	P0801548-004	1.00	1.54	ND	39	
SG67B-05	P0801548-005	1.00	1.67	ND	42	
SG51B-05	P0801548-006	1.00	1.53	ND	38	
SG51B-05D	P0801548-007	1.00	1.55	ND	39	
<b>SG42B-05</b>	P0801548-008	1.00	1.94	<b>14,000</b>	49	
SG69B-05	P0801548-009	1.00	1.63	ND	41	
SG48B-05	P0801548-010	1.00	1.58	ND	40	
SG47B-05	P0801548-011	1.00	1.66	ND	42	
<b>SG53B-05</b>	P0801548-012	1.00	1.65	<b>5,000</b>	41	
SG53B-05D	P0801548-013	1.00	1.39	ND	35	
SG49B-05	P0801548-014	1.00	1.63	ND	41	
SG66B-05	P0801548-015	1.00	1.53	ND	38	
SG50B-05	P0801548-016	1.00	1.78	ND	45	
SG45B-05	P0801548-017	1.00	1.49	ND	37	
SG54B-05	P0801548-018	1.00	1.78	ND	45	
SG87B-05	P0801548-019	1.00	2.17	ND	54	
Method Blank	P080527-MB	1.00	1.00	ND	25	
Method Blank	P080527-MB	1.00	1.00	ND	25	

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

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

Verified By: CA Date: 5/28/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00912

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.41	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.16	0.078	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.13	0.063	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.082	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.061	
64-17-5	Ethanol	3.7	16	0.16	2.0	8.5	0.085	J
67-64-1	Acetone	9.9	16	0.23	4.2	6.7	0.098	J, B
75-69-4	Trichlorofluoromethane	1.2	0.32	0.16	0.21	0.057	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.74	0.10	
75-35-4	1,1-Dichloroethene	0.17	0.32	0.16	0.043	0.081	0.040	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.63	1.6	0.24	0.21	0.53	0.078	J
75-09-2	Methylene Chloride	0.46	1.6	0.16	0.13	0.46	0.046	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.051	
76-13-1	Trichlorotrifluoroethane	0.49	0.32	0.18	0.064	0.042	0.023	
75-15-0	Carbon Disulfide	1.0	1.6	0.38	0.33	0.51	0.12	J
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.081	0.040	
75-34-3	1,1-Dichloroethane	ND	0.32	0.16	ND	0.079	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.089	0.044	
108-05-4	Vinyl Acetate	2.2	16	0.51	0.62	4.5	0.15	J
78-93-3	2-Butanone (MEK)	4.9	1.6	0.16	1.7	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	0.16	ND	0.081	0.040	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	Chloroform	490	0.32	0.19	100	0.066	0.039	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:         *cat*              Date:         6/11/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00912

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.079	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.32	0.16	ND	0.059	0.029	
71-43-2	<b>Benzene</b>	<b>3.9</b>	0.32	0.16	<b>1.2</b>	0.10	0.050	
56-23-5	<b>Carbon Tetrachloride</b>	<b>33</b>	0.32	0.16	<b>5.3</b>	0.051	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.069	0.035	
75-27-4	<b>Bromodichloromethane</b>	<b>0.22</b>	0.32	0.16	<b>0.033</b>	0.048	0.024	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>8.0</b>	0.32	0.16	<b>1.5</b>	0.060	0.030	
123-91-1	1,4-Dioxane	ND	1.6	0.20	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.059	
142-82-5	<b>n-Heptane</b>	<b>0.48</b>	1.6	0.20	<b>0.12</b>	0.39	0.050	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.35	0.037	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.4</b>	1.6	0.18	<b>0.58</b>	0.39	0.044	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.059	0.029	
108-88-3	<b>Toluene</b>	<b>24</b>	1.6	0.16	<b>6.4</b>	0.42	0.042	
591-78-6	<b>2-Hexanone</b>	<b>0.73</b>	1.6	0.24	<b>0.18</b>	0.39	0.059	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.32	0.22	ND	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.042	0.022	
111-65-9	<b>n-Octane</b>	<b>11</b>	1.6	0.16	<b>2.4</b>	0.34	0.034	
127-18-4	<b>Tetrachloroethene</b>	<b>70</b>	0.32	0.16	<b>10</b>	0.047	0.024	
108-90-7	Chlorobenzene	ND	0.32	0.16	ND	0.070	0.035	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00912

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result μg/m <sup>3</sup>	MRL μg/m <sup>3</sup>	MDL μg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	8.9	1.6	0.20	2.0	0.37	0.046	
179601-23-1	m,p-Xylenes	47	1.6	0.42	11	0.37	0.096	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.024	
100-42-5	Styrene	0.25	1.6	0.24	0.058	0.38	0.057	J
95-47-6	o-Xylene	16	1.6	0.20	3.8	0.37	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.047	0.030	
98-82-8	Cumene	0.55	1.6	0.18	0.11	0.33	0.036	J
103-65-1	n-Propylbenzene	3.0	1.6	0.17	0.61	0.33	0.034	
622-96-8	4-Ethyltoluene	5.1	1.6	0.18	1.0	0.33	0.037	
108-67-8	1,3,5-Trimethylbenzene	4.5	1.6	0.19	0.91	0.33	0.039	
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	1,2,4-Trimethylbenzene	15	1.6	0.22	3.1	0.33	0.045	
100-44-7	Benzyl Chloride	ND	0.32	0.28	ND	0.062	0.053	
541-73-1	1,3-Dichlorobenzene	0.22	0.32	0.20	0.037	0.053	0.033	J
106-46-7	1,4-Dichlorobenzene	7.2	0.32	0.18	1.2	0.053	0.030	
135-98-8	sec-Butylbenzene	0.23	1.6	0.19	0.042	0.29	0.034	J
99-87-6	4-Isopropyltoluene (p-Cymene)	0.92	1.6	0.21	0.17	0.29	0.038	J
95-50-1	1,2-Dichlorobenzene	ND	0.32	0.21	ND	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.17	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.033	
91-20-3	Naphthalene	1.4	0.64	0.24	0.26	0.12	0.045	
87-68-3	Hexachlorobutadiene	55	0.32	0.29	5.1	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.64	0.16	ND	0.12	0.029	
104-51-8	n-Butylbenzene	1.0	0.64	0.16	0.19	0.12	0.029	

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

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

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Verified By: GA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00372

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.40	0.33	0.033	
74-87-3	Chloromethane	ND	0.33	0.16	ND	0.16	0.079	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.33	0.16	ND	0.13	0.064	
74-83-9	Bromomethane	ND	0.33	0.16	ND	0.085	0.042	
75-00-3	Chloroethane	0.19	0.33	0.16	0.072	0.12	0.062	J
64-17-5	Ethanol	4.2	16	0.16	2.2	8.7	0.087	J
67-64-1	Acetone	16	16	0.24	6.5	6.9	0.10	J, B, M
75-69-4	Trichlorofluoromethane	1.1	0.33	0.16	0.20	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.76	0.11	
75-35-4	1,1-Dichloroethene	0.93	0.33	0.16	0.24	0.083	0.041	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	1.6	0.24	0.10	0.54	0.080	J
75-09-2	Methylene Chloride	0.68	1.6	0.16	0.19	0.47	0.047	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	Trichlorotrifluoroethane	0.40	0.33	0.18	0.052	0.043	0.024	
75-15-0	Carbon Disulfide	4.0	1.6	0.39	1.3	0.53	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.16	ND	0.083	0.041	
75-34-3	1,1-Dichloroethane	0.27	0.33	0.16	0.066	0.081	0.041	J
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.16	ND	0.091	0.046	
108-05-4	Vinyl Acetate	9.5	16	0.52	2.7	4.7	0.15	J
78-93-3	2-Butanone (MEK)	4.7	1.6	0.16	1.6	0.56	0.056	
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.16	ND	0.083	0.041	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.39	0.046	
67-66-3	Chloroform	860	0.33	0.19	180	0.067	0.040	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00372

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.17	ND	0.39	0.040	
107-06-2	1,2-Dichloroethane	ND	0.33	0.16	ND	0.081	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
71-43-2	<b>Benzene</b>	<b>4.9</b>	0.33	0.16	<b>1.5</b>	0.10	0.051	
56-23-5	<b>Carbon Tetrachloride</b>	<b>9.4</b>	0.33	0.16	<b>1.5</b>	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.39	0.039	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.24</b>	0.33	0.16	<b>0.053</b>	0.071	0.035	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.44</b>	0.33	0.16	<b>0.065</b>	0.049	0.024	
79-01-6	<b>Trichloroethene</b>	<b>2.3</b>	0.33	0.16	<b>0.42</b>	0.061	0.031	
123-91-1	<b>1,4-Dioxane</b>	<b>0.86</b>	1.6	0.20	<b>0.24</b>	0.46	0.056	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.6	0.25	ND	0.40	0.060	
142-82-5	<b>n-Heptane</b>	<b>0.78</b>	1.6	0.21	<b>0.19</b>	0.40	0.051	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.038	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.1</b>	1.6	0.18	<b>0.51</b>	0.40	0.045	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.21	ND	0.36	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
108-88-3	<b>Toluene</b>	<b>30</b>	1.6	0.16	<b>8.0</b>	0.44	0.044	
591-78-6	<b>2-Hexanone</b>	<b>0.90</b>	1.6	0.25	<b>0.22</b>	0.40	0.061	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.039	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	<b>n-Octane</b>	<b>14</b>	1.6	0.16	<b>2.9</b>	0.35	0.035	
127-18-4	<b>Tetrachloroethene</b>	<b>23</b>	0.33	0.16	<b>3.4</b>	0.048	0.024	
108-90-7	<b>Chlorobenzene</b>	<b>0.62</b>	0.33	0.17	<b>0.14</b>	0.071	0.036	

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

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

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Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00372

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	13	1.6	0.20	3.0	0.38	0.047	
179601-23-1	m,p-Xylenes	67	1.6	0.43	16	0.38	0.098	
75-25-2	Bromoform	0.28	1.6	0.25	0.027	0.16	0.024	J
100-42-5	Styrene	0.38	1.6	0.25	0.089	0.39	0.059	J
95-47-6	o-Xylene	23	1.6	0.21	5.3	0.38	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	0.79	1.6	0.18	0.16	0.33	0.037	J
103-65-1	n-Propylbenzene	4.2	1.6	0.17	0.86	0.33	0.035	
622-96-8	4-Ethyltoluene	7.0	1.6	0.19	1.4	0.33	0.038	
108-67-8	1,3,5-Trimethylbenzene	5.5	1.6	0.20	1.1	0.33	0.040	
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	21	1.6	0.23	4.3	0.33	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.055	
541-73-1	1,3-Dichlorobenzene	4.3	0.33	0.20	0.71	0.055	0.034	
106-46-7	1,4-Dichlorobenzene	4.6	0.33	0.18	0.77	0.055	0.031	
135-98-8	sec-Butylbenzene	0.33	1.6	0.19	0.061	0.30	0.035	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.4	1.6	0.21	0.25	0.30	0.039	J
95-50-1	1,2-Dichlorobenzene	0.38	0.33	0.22	0.063	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	0.95	0.33	0.25	0.13	0.044	0.034	
91-20-3	Naphthalene	1.3	0.66	0.24	0.24	0.13	0.046	
87-68-3	Hexachlorobutadiene	45	0.33	0.30	4.2	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.16	ND	0.12	0.030	
104-51-8	n-Butylbenzene	1.4	0.66	0.16	0.26	0.12	0.030	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:     CA          Date:     6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG46B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-003

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00651

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.79	0.079	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.077	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.14	0.79	0.079	0.020	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.041	0.020	
75-00-3	Chloroethane	0.11	0.16	0.079	0.043	0.060	0.030	J
64-17-5	Ethanol	1.8	7.9	0.079	0.98	4.2	0.042	J
67-64-1	Acetone	130	7.9	0.12	54	3.3	0.049	B
75-69-4	Trichlorofluoromethane	1.8	0.16	0.079	0.32	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	510	0.16	0.079	130	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.38	0.79	0.12	0.13	0.26	0.039	J
75-09-2	Methylene Chloride	0.27	0.79	0.079	0.078	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.58	0.16	0.088	0.076	0.021	0.012	
75-15-0	Carbon Disulfide	5.8	0.79	0.19	1.9	0.25	0.061	
156-60-5	trans-1,2-Dichloroethene	0.087	0.16	0.079	0.022	0.040	0.020	J
75-34-3	1,1-Dichloroethane	0.14	0.16	0.079	0.035	0.039	0.020	J
1634-04-4	Methyl tert-Butyl Ether	0.15	0.16	0.079	0.043	0.044	0.022	J
108-05-4	Vinyl Acetate	5.5	7.9	0.25	1.6	2.2	0.072	J
78-93-3	2-Butanone (MEK)	8.5	0.79	0.079	2.9	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	0.084	0.16	0.079	0.021	0.040	0.020	J
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	25	0.16	0.093	5.1	0.032	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: UA      Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG46B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-003

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00651

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.081	ND	0.19	0.019	
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.090</b>	0.16	0.079	<b>0.022</b>	0.039	0.020	<b>J</b>
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.12</b>	0.16	0.079	<b>0.023</b>	0.029	0.014	<b>J</b>
71-43-2	<b>Benzene</b>	<b>3.0</b>	0.16	0.079	<b>0.95</b>	0.049	0.025	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.68</b>	0.16	0.079	<b>0.11</b>	0.025	0.013	
994-05-8	<b>tert-Amyl Methyl Ether</b>	<b>0.10</b>	0.79	0.079	<b>0.025</b>	0.19	0.019	<b>J</b>
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.084</b>	0.16	0.079	<b>0.018</b>	0.034	0.017	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.24</b>	0.16	0.079	<b>0.037</b>	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>6.7</b>	0.16	0.079	<b>1.2</b>	0.029	0.015	
123-91-1	<b>1,4-Dioxane</b>	<b>0.34</b>	0.79	0.096	<b>0.095</b>	0.22	0.027	<b>J</b>
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	<b>n-Heptane</b>	<b>0.42</b>	0.79	0.10	<b>0.10</b>	0.19	0.025	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>7.1</b>	0.79	0.088	<b>1.7</b>	0.19	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	<b>Toluene</b>	<b>3.3</b>	0.79	0.079	<b>0.88</b>	0.21	0.021	
591-78-6	<b>2-Hexanone</b>	<b>0.91</b>	0.79	0.12	<b>0.22</b>	0.19	0.029	
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>1.7</b>	0.79	0.079	<b>0.36</b>	0.17	0.017	
127-18-4	<b>Tetrachloroethene</b>	<b>1.2</b>	0.16	0.079	<b>0.17</b>	0.023	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>0.31</b>	0.16	0.081	<b>0.068</b>	0.034	0.018	

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

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Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG46B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
CAS Sample ID: P0801548-003

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00651

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
0.10 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.96	0.79	0.098	0.22	0.18	0.023	
179601-23-1	m,p-Xylenes	4.3	0.79	0.21	1.0	0.18	0.047	
75-25-2	Bromoform	0.15	0.79	0.12	0.015	0.076	0.012	J
100-42-5	Styrene	0.19	0.79	0.12	0.045	0.19	0.028	J
95-47-6	o-Xylene	1.8	0.79	0.10	0.41	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	0.18	0.16	0.10	0.027	0.023	0.015	
98-82-8	Cumene	0.24	0.79	0.088	0.048	0.16	0.018	J
103-65-1	n-Propylbenzene	0.90	0.79	0.082	0.18	0.16	0.017	
622-96-8	4-Ethyltoluene	1.8	0.79	0.090	0.36	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	1.3	0.79	0.095	0.26	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.24	0.79	0.12	0.051	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	3.5	0.79	0.11	0.71	0.16	0.022	
100-44-7	Benzyl Chloride	0.17	0.16	0.14	0.033	0.031	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.098	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	3.5	0.16	0.088	0.58	0.026	0.015	
135-98-8	sec-Butylbenzene	0.17	0.79	0.092	0.031	0.14	0.017	J
99-87-6	4-Isopropyltoluene (p-Cymene)	0.68	0.79	0.10	0.12	0.14	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	1,2,4-Trichlorobenzene	0.12	0.16	0.12	0.017	0.021	0.016	J
91-20-3	Naphthalene	1.1	0.32	0.12	0.21	0.060	0.022	
87-68-3	Hexachlorobutadiene	0.30	0.16	0.14	0.028	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	n-Butylbenzene	0.66	0.32	0.079	0.12	0.058	0.014	

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

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

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Verified By:                           Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.43	0.16	0.016	
74-87-3	Chloromethane	ND	0.15	0.077	ND	0.075	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.091	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	ND	0.15	0.077	ND	0.040	0.020	
75-00-3	Chloroethane	ND	0.15	0.077	ND	0.058	0.029	
64-17-5	Ethanol	3.2	7.7	0.077	1.7	4.1	0.041	J
67-64-1	Acetone	17	7.7	0.11	7.1	3.2	0.047	B
75-69-4	Trichlorofluoromethane	40	0.15	0.077	7.1	0.027	0.014	
107-13-1	Acrylonitrile	ND	0.77	0.11	ND	0.35	0.050	
75-35-4	1,1-Dichloroethene	0.077	0.15	0.077	0.019	0.039	0.019	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	0.77	0.11	0.098	0.25	0.038	J
75-09-2	Methylene Chloride	0.12	0.77	0.077	0.033	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	Trichlorotrifluoroethane	0.62	0.15	0.086	0.081	0.020	0.011	
75-15-0	Carbon Disulfide	4.9	0.77	0.18	1.6	0.25	0.059	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.077	ND	0.043	0.021	
108-05-4	Vinyl Acetate	5.3	7.7	0.25	1.5	2.2	0.070	J
78-93-3	2-Butanone (MEK)	5.7	0.77	0.077	1.9	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.091	ND	0.18	0.022	
67-66-3	Chloroform	24	0.15	0.091	4.9	0.032	0.019	

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B = Analyte was found in the method blank.

Verified By:         66              Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.079	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.33</b>	0.15	0.077	<b>0.060</b>	0.028	0.014	
71-43-2	<b>Benzene</b>	<b>5.1</b>	0.15	0.077	<b>1.6</b>	0.048	0.024	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.31</b>	0.15	0.077	<b>0.049</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	ND	0.15	0.077	ND	0.023	0.011	
79-01-6	<b>Trichloroethene</b>	<b>11</b>	0.15	0.077	<b>2.0</b>	0.029	0.014	
123-91-1	<b>1,4-Dioxane</b>	<b>0.28</b>	0.77	0.094	<b>0.078</b>	0.21	0.026	<b>J</b>
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	<b>n-Heptane</b>	<b>0.53</b>	0.77	0.099	<b>0.13</b>	0.19	0.024	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>8.4</b>	0.77	0.086	<b>2.1</b>	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.097	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	<b>Toluene</b>	<b>8.6</b>	0.77	0.077	<b>2.3</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>1.3</b>	0.77	0.12	<b>0.32</b>	0.19	0.029	
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	<b>n-Octane</b>	<b>6.5</b>	0.77	0.077	<b>1.4</b>	0.16	0.016	
127-18-4	<b>Tetrachloroethene</b>	<b>150</b>	0.15	0.077	<b>22</b>	0.023	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.079	ND	0.033	0.017	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:               Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.6	0.77	0.095	0.82	0.18	0.022	
179601-23-1	m,p-Xylenes	17	0.77	0.20	4.0	0.18	0.046	
75-25-2	Bromoform	ND	0.77	0.12	ND	0.075	0.011	
100-42-5	Styrene	0.24	0.77	0.12	0.057	0.18	0.028	J
95-47-6	o-Xylene	5.3	0.77	0.097	1.2	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.099	ND	0.022	0.014	
98-82-8	Cumene	0.24	0.77	0.086	0.049	0.16	0.018	J
103-65-1	n-Propylbenzene	0.68	0.77	0.080	0.14	0.16	0.016	J
622-96-8	4-Ethyltoluene	1.0	0.77	0.088	0.21	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.77	0.092	0.25	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.14	0.77	0.11	0.029	0.16	0.023	J
95-63-6	1,2,4-Trimethylbenzene	2.6	0.77	0.11	0.53	0.16	0.022	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.095	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	2.7	0.15	0.086	0.45	0.026	0.014	
135-98-8	sec-Butylbenzene	ND	0.77	0.089	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	6.7	0.77	0.10	1.2	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.080	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	0.97	0.31	0.11	0.18	0.059	0.022	
87-68-3	Hexachlorobutadiene	0.37	0.15	0.14	0.035	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.38	0.31	0.077	0.069	0.056	0.014	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         /        

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG67B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

**CAS Project ID:** P0801548  
**CAS Sample ID:** P0801548-005

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00533

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.84	0.084	0.43	0.17	0.017	
74-87-3	Chloromethane	0.13	0.17	0.084	0.064	0.081	0.040	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	0.084	ND	0.12	0.012	
75-01-4	Vinyl Chloride	0.52	0.17	0.084	0.20	0.065	0.033	
74-83-9	Bromomethane	0.25	0.17	0.084	0.064	0.043	0.022	
75-00-3	Chloroethane	0.44	0.17	0.084	0.17	0.063	0.032	
64-17-5	Ethanol	2.8	8.4	0.084	1.5	4.4	0.044	J
67-64-1	Acetone	41	8.4	0.12	17	3.5	0.051	B
75-69-4	Trichlorofluoromethane	5.7	0.17	0.084	1.0	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.84	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	9.0	0.17	0.084	2.3	0.042	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	5.9	0.84	0.12	1.9	0.28	0.041	
75-09-2	Methylene Chloride	0.34	0.84	0.084	0.098	0.24	0.024	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.084	ND	0.053	0.027	
76-13-1	Trichlorotrifluoroethane	0.56	0.17	0.094	0.073	0.022	0.012	
75-15-0	Carbon Disulfide	5.4	0.84	0.20	1.7	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-34-3	1,1-Dichloroethane	77	0.17	0.084	19	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	0.19	0.17	0.084	0.053	0.046	0.023	
108-05-4	Vinyl Acetate	12	8.4	0.27	3.5	2.4	0.076	
78-93-3	2-Butanone (MEK)	9.3	0.84	0.084	3.2	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
108-20-3	Diisopropyl Ether	ND	0.84	0.099	ND	0.20	0.024	
67-66-3	Chloroform	62	0.17	0.099	13	0.034	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG67B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-005

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00533

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.84	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.084	ND	0.041	0.021	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>9.3</b>	0.17	0.084	<b>1.7</b>	0.031	0.015	
71-43-2	<b>Benzene</b>	<b>6.6</b>	0.17	0.084	<b>2.1</b>	0.052	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.47</b>	0.17	0.084	<b>0.075</b>	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.84	0.084	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.084	ND	0.036	0.018	
75-27-4	<b>Bromodichloromethane</b>	<b>0.16</b>	0.17	0.084	<b>0.024</b>	0.025	0.012	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>23</b>	0.17	0.084	<b>4.2</b>	0.031	0.016	
123-91-1	<b>1,4-Dioxane</b>	<b>4.2</b>	0.84	0.10	<b>1.2</b>	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.84	0.13	ND	0.20	0.031	
142-82-5	<b>n-Heptane</b>	<b>2.0</b>	0.84	0.11	<b>0.49</b>	0.20	0.026	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.087	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>4.5</b>	0.84	0.094	<b>1.1</b>	0.20	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.11	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	<b>Toluene</b>	<b>13</b>	0.84	0.084	<b>3.5</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>1.1</b>	0.84	0.13	<b>0.26</b>	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	<b>n-Octane</b>	<b>4.7</b>	0.84	0.084	<b>1.0</b>	0.18	0.018	
127-18-4	<b>Tetrachloroethene</b>	<b>230</b>	0.17	0.084	<b>34</b>	0.025	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>1.9</b>	0.17	0.085	<b>0.42</b>	0.036	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG67B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-005

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00533

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.8	0.84	0.10	0.87	0.19	0.024	
179601-23-1	m,p-Xylenes	18	0.84	0.22	4.2	0.19	0.050	
75-25-2	Bromoform	ND	0.84	0.13	ND	0.081	0.012	
100-42-5	Styrene	0.42	0.84	0.13	0.099	0.20	0.030	J
95-47-6	o-Xylene	7.8	0.84	0.11	1.8	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.016	
98-82-8	Cumene	0.60	0.84	0.094	0.12	0.17	0.019	J
103-65-1	n-Propylbenzene	ND	0.84	0.087	ND	0.17	0.018	
622-96-8	4-Ethyltoluene	0.76	0.84	0.095	0.16	0.17	0.019	J
108-67-8	1,3,5-Trimethylbenzene	3.1	0.84	0.10	0.64	0.17	0.020	
98-83-9	alpha-Methylstyrene	0.51	0.84	0.12	0.10	0.17	0.025	J
95-63-6	1,2,4-Trimethylbenzene	6.3	0.84	0.12	1.3	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	1,3-Dichlorobenzene	0.19	0.17	0.10	0.032	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	7.1	0.17	0.094	1.2	0.028	0.016	
135-98-8	sec-Butylbenzene	0.80	0.84	0.097	0.15	0.15	0.018	J
99-87-6	4-Isopropyltoluene (p-Cymene)	5.2	0.84	0.11	0.95	0.15	0.020	
95-50-1	1,2-Dichlorobenzene	0.93	0.17	0.11	0.15	0.028	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	Naphthalene	ND	0.33	0.12	ND	0.064	0.024	
87-68-3	Hexachlorobutadiene	0.15	0.17	0.15	0.014	0.016	0.014	J
98-06-6	tert-Butylbenzene	1.0	0.33	0.084	0.18	0.061	0.015	
104-51-8	n-Butylbenzene	ND	0.33	0.084	ND	0.061	0.015	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-006

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00105

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.77	0.077	0.40	0.15	0.015	
74-87-3	Chloromethane	6.5	0.15	0.077	3.1	0.074	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.081	0.77	0.077	0.012	0.11	0.011	J
75-01-4	Vinyl Chloride	1.9	0.15	0.077	0.75	0.060	0.030	
74-83-9	Bromomethane	0.24	0.15	0.077	0.061	0.039	0.020	
75-00-3	Chloroethane	75	0.15	0.077	29	0.058	0.029	
64-17-5	Ethanol	11	7.7	0.077	6.0	4.1	0.041	
67-64-1	Acetone	400	7.7	0.11	170	3.2	0.047	B
75-69-4	Trichlorofluoromethane	2.1	0.15	0.077	0.38	0.027	0.014	
107-13-1	Acrylonitrile	0.11	0.77	0.11	0.050	0.35	0.049	J
75-35-4	1,1-Dichloroethene	3.2	0.15	0.077	0.81	0.039	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	3.7	0.77	0.11	1.2	0.25	0.037	
75-09-2	Methylene Chloride	90	0.77	0.077	26	0.22	0.022	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	0.31	0.15	0.077	0.098	0.049	0.024	
76-13-1	Trichlorotrifluoroethane	0.50	0.15	0.086	0.065	0.020	0.011	
75-15-0	Carbon Disulfide	5.6	0.77	0.18	1.8	0.25	0.059	
156-60-5	trans-1,2-Dichloroethene	0.13	0.15	0.077	0.032	0.039	0.019	J
75-34-3	1,1-Dichloroethane	84	0.15	0.077	21	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.077	ND	0.042	0.021	
108-05-4	Vinyl Acetate	ND	7.7	0.24	ND	2.2	0.070	
78-93-3	2-Butanone (MEK)	25	0.77	0.077	8.6	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	0.23	0.15	0.077	0.058	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.090	ND	0.18	0.022	
67-66-3	Chloroform	3,100	0.15	0.090	640	0.031	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-006

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00105

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.078	ND	0.18	0.019	
107-06-2	<b>1,2-Dichloroethane</b>	<b>7.3</b>	0.15	0.077	<b>1.8</b>	0.038	0.019	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.41</b>	0.15	0.077	<b>0.075</b>	0.028	0.014	
71-43-2	<b>Benzene</b>	<b>160</b>	0.15	0.077	<b>51</b>	0.048	0.024	
56-23-5	<b>Carbon Tetrachloride</b>	<b>79</b>	0.15	0.077	<b>13</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	<b>1,2-Dichloropropane</b>	<b>2.6</b>	0.15	0.077	<b>0.56</b>	0.033	0.017	
75-27-4	<b>Bromodichloromethane</b>	<b>7.3</b>	0.15	0.077	<b>1.1</b>	0.023	0.011	
79-01-6	<b>Trichloroethene</b>	<b>35</b>	0.15	0.077	<b>6.5</b>	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.093	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.11	ND	0.19	0.028	
142-82-5	<b>n-Heptane</b>	<b>19</b>	0.77	0.098	<b>4.7</b>	0.19	0.024	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>3.1</b>	0.77	0.086	<b>0.76</b>	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.096	ND	0.17	0.021	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.13</b>	0.15	0.077	<b>0.023</b>	0.028	0.014	<b>J</b>
108-88-3	<b>Toluene</b>	<b>50</b>	0.77	0.077	<b>13</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>2.0</b>	0.77	0.12	<b>0.49</b>	0.19	0.028	<b>M</b>
124-48-1	<b>Dibromochloromethane</b>	<b>4.1</b>	0.15	0.10	<b>0.48</b>	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	<b>n-Octane</b>	<b>17</b>	0.77	0.077	<b>3.6</b>	0.16	0.016	
127-18-4	<b>Tetrachloroethene</b>	<b>490</b>	0.15	0.077	<b>72</b>	0.023	0.011	
108-90-7	<b>Chlorobenzene</b>	<b>32</b>	0.15	0.078	<b>7.0</b>	0.033	0.017	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-006

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00105

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.8	0.77	0.095	0.87	0.18	0.022	
179601-23-1	m,p-Xylenes	27	0.77	0.20	6.2	0.18	0.046	
75-25-2	Bromoform	4.6	0.77	0.12	0.44	0.074	0.011	
100-42-5	Styrene	0.19	0.77	0.12	0.043	0.18	0.027	J
95-47-6	o-Xylene	9.7	0.77	0.096	2.2	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.098	ND	0.022	0.014	
98-82-8	Cumene	1.2	0.77	0.086	0.24	0.16	0.017	
103-65-1	n-Propylbenzene	0.79	0.77	0.080	0.16	0.16	0.016	
622-96-8	4-Ethyltoluene	0.83	0.77	0.087	0.17	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	5.3	0.77	0.092	1.1	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.16	0.77	0.11	0.033	0.16	0.023	J
95-63-6	1,2,4-Trimethylbenzene	4.0	0.77	0.11	0.80	0.16	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.025	
541-73-1	1,3-Dichlorobenzene	0.43	0.15	0.095	0.071	0.025	0.016	
106-46-7	1,4-Dichlorobenzene	5.0	0.15	0.086	0.84	0.025	0.014	
135-98-8	sec-Butylbenzene	0.23	0.77	0.089	0.043	0.14	0.016	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.1	0.77	0.099	0.20	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	0.94	0.15	0.10	0.16	0.025	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.079	0.012	
120-82-1	1,2,4-Trichlorobenzene	0.37	0.15	0.12	0.049	0.021	0.016	
91-20-3	Naphthalene	1.1	0.31	0.11	0.21	0.058	0.022	
87-68-3	Hexachlorobutadiene	2.9	0.15	0.14	0.28	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.59	0.31	0.077	0.11	0.056	0.014	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00292

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/2/08  
**Volume(s) Analyzed:** 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	3.1	0.31	0.42	0.63	0.063	J
74-87-3	Chloromethane	27	0.62	0.31	13	0.30	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.1	0.31	ND	0.44	0.044	
75-01-4	Vinyl Chloride	2.0	0.62	0.31	0.79	0.24	0.12	
74-83-9	Bromomethane	0.61	0.62	0.31	0.16	0.16	0.080	J
75-00-3	Chloroethane	76	0.62	0.31	29	0.24	0.12	
64-17-5	Ethanol	14	31	0.31	7.7	16	0.16	J
67-64-1	Acetone	330	31	0.45	140	13	0.19	B
75-69-4	Trichlorofluoromethane	2.1	0.62	0.31	0.38	0.11	0.055	
107-13-1	Acrylonitrile	ND	3.1	0.43	ND	1.4	0.20	
75-35-4	1,1-Dichloroethene	3.0	0.62	0.31	0.75	0.16	0.078	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	5.5	3.1	0.46	1.8	1.0	0.15	
75-09-2	Methylene Chloride	90	3.1	0.31	26	0.89	0.089	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.62	0.31	ND	0.20	0.099	
76-13-1	Trichlorotrifluoroethane	0.47	0.62	0.35	0.061	0.081	0.045	J
75-15-0	Carbon Disulfide	6.5	3.1	0.74	2.1	1.0	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.62	0.31	ND	0.16	0.078	
75-34-3	1,1-Dichloroethane	84	0.62	0.31	21	0.15	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	0.62	0.31	ND	0.17	0.086	
108-05-4	Vinyl Acetate	ND	31	0.99	ND	8.8	0.28	
78-93-3	2-Butanone (MEK)	33	3.1	0.31	11	1.1	0.11	
156-59-2	cis-1,2-Dichloroethene	ND	0.62	0.31	ND	0.16	0.078	
108-20-3	Diisopropyl Ether	ND	3.1	0.37	ND	0.74	0.088	
67-66-3	Chloroform	3,100	0.62	0.37	640	0.13	0.075	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00292

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/2/08  
**Volume(s) Analyzed:** 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	3.1	0.32	ND	0.74	0.076	
107-06-2	<b>1,2-Dichloroethane</b>	<b>7.3</b>	0.62	0.31	<b>1.8</b>	0.15	0.077	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.45</b>	0.62	0.31	<b>0.083</b>	0.11	0.057	<b>J</b>
71-43-2	<b>Benzene</b>	<b>150</b>	0.62	0.31	<b>48</b>	0.19	0.097	
56-23-5	<b>Carbon Tetrachloride</b>	<b>78</b>	0.62	0.31	<b>12</b>	0.099	0.049	
994-05-8	tert-Amyl Methyl Ether	ND	3.1	0.31	ND	0.74	0.074	
78-87-5	<b>1,2-Dichloropropane</b>	<b>2.4</b>	0.62	0.31	<b>0.51</b>	0.13	0.067	
75-27-4	<b>Bromodichloromethane</b>	<b>7.2</b>	0.62	0.31	<b>1.1</b>	0.093	0.046	
79-01-6	<b>Trichloroethene</b>	<b>33</b>	0.62	0.31	<b>6.1</b>	0.12	0.058	
123-91-1	<b>1,4-Dioxane</b>	<b>0.92</b>	3.1	0.38	<b>0.26</b>	0.86	0.10	<b>J</b>
80-62-6	Methyl Methacrylate	ND	3.1	0.47	ND	0.76	0.11	
142-82-5	<b>n-Heptane</b>	<b>15</b>	3.1	0.40	<b>3.6</b>	0.76	0.097	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.32	ND	0.68	0.071	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>1.8</b>	3.1	0.35	<b>0.43</b>	0.76	0.085	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.39	ND	0.68	0.086	
79-00-5	1,1,2-Trichloroethane	ND	0.62	0.31	ND	0.11	0.057	
108-88-3	<b>Toluene</b>	<b>26</b>	3.1	0.31	<b>6.9</b>	0.82	0.082	
591-78-6	2-Hexanone	ND	3.1	0.47	ND	0.76	0.12	
124-48-1	<b>Dibromochloromethane</b>	<b>3.4</b>	0.62	0.42	<b>0.40</b>	0.073	0.050	
106-93-4	1,2-Dibromoethane	ND	0.62	0.33	ND	0.081	0.044	
111-65-9	<b>n-Octane</b>	<b>4.4</b>	3.1	0.31	<b>0.93</b>	0.66	0.066	
127-18-4	<b>Tetrachloroethene</b>	<b>440</b>	0.62	0.31	<b>64</b>	0.091	0.046	
108-90-7	<b>Chlorobenzene</b>	<b>8.1</b>	0.62	0.32	<b>1.8</b>	0.13	0.069	

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Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00292

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/2/08  
**Volume(s) Analyzed:** 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.77	3.1	0.38	0.18	0.71	0.089	J
179601-23-1	m,p-Xylenes	2.4	3.1	0.81	0.56	0.71	0.19	J
75-25-2	Bromoform	2.6	3.1	0.47	0.26	0.30	0.046	J
100-42-5	Styrene	ND	3.1	0.47	ND	0.73	0.11	
95-47-6	o-Xylene	0.58	3.1	0.39	0.13	0.71	0.090	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.62	0.40	ND	0.090	0.058	
98-82-8	Cumene	ND	3.1	0.35	ND	0.63	0.071	
103-65-1	n-Propylbenzene	ND	3.1	0.32	ND	0.63	0.066	
622-96-8	4-Ethyltoluene	ND	3.1	0.35	ND	0.63	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	0.37	ND	0.63	0.076	
98-83-9	alpha-Methylstyrene	ND	3.1	0.45	ND	0.64	0.094	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	0.43	ND	0.63	0.087	
100-44-7	Benzyl Chloride	ND	0.62	0.53	ND	0.12	0.10	
541-73-1	1,3-Dichlorobenzene	ND	0.62	0.38	ND	0.10	0.064	
106-46-7	1,4-Dichlorobenzene	ND	0.62	0.35	ND	0.10	0.058	
135-98-8	sec-Butylbenzene	ND	3.1	0.36	ND	0.56	0.066	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	3.1	0.40	ND	0.56	0.073	
95-50-1	1,2-Dichlorobenzene	ND	0.62	0.41	ND	0.10	0.068	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	0.47	ND	0.32	0.049	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	0.47	ND	0.084	0.064	
91-20-3	Naphthalene	ND	1.2	0.46	ND	0.24	0.088	
87-68-3	Hexachlorobutadiene	ND	0.62	0.56	ND	0.058	0.052	
98-06-6	tert-Butylbenzene	ND	1.2	0.31	ND	0.23	0.056	
104-51-8	n-Butylbenzene	ND	1.2	0.31	ND	0.23	0.056	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG42B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-008

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00510

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 0.50 Liter(s)

Initial Pressure (psig): -5.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.9	0.19	0.39	0.39	0.039	J
74-87-3	Chloromethane	ND	0.39	0.19	ND	0.19	0.094	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.19	ND	0.28	0.028	
75-01-4	Vinyl Chloride	ND	0.39	0.19	ND	0.15	0.076	
74-83-9	Bromomethane	ND	0.39	0.19	ND	0.10	0.050	
75-00-3	Chloroethane	ND	0.39	0.19	ND	0.15	0.074	
64-17-5	Ethanol	6.1	19	0.19	3.2	10	0.10	J
67-64-1	Acetone	38	19	0.28	16	8.2	0.12	B, M
75-69-4	Trichlorofluoromethane	1.3	0.39	0.19	0.23	0.069	0.035	
107-13-1	Acrylonitrile	ND	1.9	0.27	ND	0.89	0.13	
75-35-4	1,1-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	1.2	1.9	0.29	0.38	0.64	0.095	J
75-09-2	Methylene Chloride	0.26	1.9	0.19	0.075	0.56	0.056	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.39	0.19	ND	0.12	0.062	
76-13-1	Trichlorotrifluoroethane	0.50	0.39	0.22	0.065	0.051	0.028	
75-15-0	Carbon Disulfide	1.2	1.9	0.47	0.40	0.62	0.15	J
156-60-5	trans-1,2-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
75-34-3	1,1-Dichloroethane	ND	0.39	0.19	ND	0.096	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.39	0.19	ND	0.11	0.054	
108-05-4	Vinyl Acetate	2.9	19	0.62	0.84	5.5	0.18	J
78-93-3	2-Butanone (MEK)	14	1.9	0.19	4.6	0.66	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
108-20-3	Diisopropyl Ether	ND	1.9	0.23	ND	0.46	0.055	
67-66-3	Chloroform	83	0.39	0.23	17	0.079	0.047	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:     CA          Date:     6/10/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

Client: ENSR  
 Client Sample ID: SG42B-05  
 Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-008

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00510

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -5.3 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.9	0.20	ND	0.46	0.047	
107-06-2	1,2-Dichloroethane	ND	0.39	0.19	ND	0.096	0.048	
71-55-6	1,1,1-Trichloroethane	ND	0.39	0.19	ND	0.071	0.036	
71-43-2	<b>Benzene</b>	<b>2.6</b>	0.39	0.19	<b>0.82</b>	0.12	0.061	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.47</b>	0.39	0.19	<b>0.075</b>	0.062	0.031	
994-05-8	tert-Amyl Methyl Ether	ND	1.9	0.19	ND	0.46	0.046	
78-87-5	1,2-Dichloropropane	ND	0.39	0.19	ND	0.084	0.042	
75-27-4	<b>Bromodichloromethane</b>	<b>20</b>	0.39	0.19	<b>3.0</b>	0.058	0.029	
79-01-6	Trichloroethene	ND	0.39	0.19	ND	0.072	0.036	
123-91-1	1,4-Dioxane	ND	1.9	0.24	ND	0.54	0.066	
80-62-6	Methyl Methacrylate	ND	1.9	0.29	ND	0.47	0.071	
142-82-5	<b>n-Heptane</b>	<b>0.71</b>	1.9	0.25	<b>0.17</b>	0.47	0.061	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.20	ND	0.43	0.044	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.2</b>	1.9	0.22	<b>0.53</b>	0.47	0.053	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.24	ND	0.43	0.054	
79-00-5	1,1,2-Trichloroethane	ND	0.39	0.19	ND	0.071	0.036	
108-88-3	<b>Toluene</b>	<b>160</b>	1.9	0.19	<b>42</b>	0.52	0.052	
591-78-6	<b>2-Hexanone</b>	<b>3.9</b>	1.9	0.29	<b>0.95</b>	0.47	0.072	
124-48-1	<b>Dibromochloromethane</b>	<b>1.2</b>	0.39	0.26	<b>0.14</b>	0.046	0.031	
106-93-4	1,2-Dibromoethane	ND	0.39	0.21	ND	0.051	0.027	
111-65-9	<b>n-Octane</b>	<b>2.0</b>	1.9	0.19	<b>0.42</b>	0.42	0.042	
127-18-4	<b>Tetrachloroethene</b>	<b>1.1</b>	0.39	0.19	<b>0.16</b>	0.057	0.029	
108-90-7	Chlorobenzene	ND	0.39	0.20	ND	0.084	0.043	

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

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Verified By: CA Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG42B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-008

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00510

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 0.50 Liter(s)

Initial Pressure (psig): -5.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	5.5	1.9	0.24	1.3	0.45	0.055	
179601-23-1	m,p-Xylenes	36	1.9	0.50	8.2	0.45	0.12	
75-25-2	Bromoform	ND	1.9	0.29	ND	0.19	0.029	
100-42-5	Styrene	0.83	1.9	0.29	0.19	0.46	0.069	J
95-47-6	o-Xylene	12	1.9	0.24	2.7	0.45	0.056	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.39	0.25	ND	0.057	0.036	
98-82-8	Cumene	0.58	1.9	0.22	0.12	0.39	0.044	J
103-65-1	n-Propylbenzene	3.0	1.9	0.20	0.61	0.39	0.041	
622-96-8	4-Ethyltoluene	5.4	1.9	0.22	1.1	0.39	0.045	
108-67-8	1,3,5-Trimethylbenzene	4.5	1.9	0.23	0.91	0.39	0.047	
98-83-9	alpha-Methylstyrene	0.33	1.9	0.28	0.068	0.40	0.059	J
95-63-6	1,2,4-Trimethylbenzene	14	1.9	0.27	2.9	0.39	0.054	
100-44-7	Benzyl Chloride	ND	0.39	0.33	ND	0.075	0.064	
541-73-1	1,3-Dichlorobenzene	ND	0.39	0.24	ND	0.065	0.040	
106-46-7	1,4-Dichlorobenzene	3.4	0.39	0.22	0.56	0.065	0.036	
135-98-8	sec-Butylbenzene	0.45	1.9	0.23	0.082	0.35	0.041	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.7	1.9	0.25	0.31	0.35	0.046	J
95-50-1	1,2-Dichlorobenzene	ND	0.39	0.26	ND	0.065	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.29	ND	0.20	0.031	
120-82-1	1,2,4-Trichlorobenzene	ND	0.39	0.29	ND	0.052	0.040	
91-20-3	Naphthalene	1.5	0.78	0.29	0.29	0.15	0.055	
87-68-3	Hexachlorobutadiene	ND	0.39	0.35	ND	0.036	0.033	
98-06-6	tert-Butylbenzene	ND	0.78	0.19	ND	0.14	0.035	
104-51-8	n-Butylbenzene	2.4	0.78	0.19	0.44	0.14	0.035	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00834

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	33	16	ND	16	7.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	33	16	ND	13	6.4	
74-83-9	Bromomethane	ND	33	16	ND	8.4	4.2	
75-00-3	Chloroethane	ND	33	16	ND	12	6.2	
64-17-5	Ethanol	ND	1,600	16	ND	870	8.7	
67-64-1	<b>Acetone</b>	<b>54</b>	1,600	24	<b>23</b>	690	10	<b>J, B</b>
75-69-4	Trichlorofluoromethane	ND	33	16	ND	5.8	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	75	11	
75-35-4	1,1-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	54	8.0	
75-09-2	<b>Methylene Chloride</b>	<b>32</b>	160	16	<b>9.1</b>	47	4.7	<b>J</b>
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	16	ND	10	5.2	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-34-3	1,1-Dichloroethane	ND	33	16	ND	8.1	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	33	16	ND	9.0	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.6	
67-66-3	<b>Chloroform</b>	<b>130,000</b>	33	19	<b>26,000</b>	6.7	3.9	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00834

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	160	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	16	ND	8.1	4.0	
71-55-6	1,1,1-Trichloroethane	ND	33	16	ND	6.0	3.0	
71-43-2	Benzene	ND	33	16	ND	10	5.1	
56-23-5	Carbon Tetrachloride	ND	33	16	ND	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	16	ND	7.1	3.5	
75-27-4	<b>Bromodichloromethane</b>	<b>55</b>	33	16	<b>8.2</b>	4.9	2.4	
79-01-6	<b>Trichloroethene</b>	<b>51</b>	33	16	<b>9.4</b>	6.1	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	40	6.0	
142-82-5	n-Heptane	ND	160	21	ND	40	5.1	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	36	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	160	21	ND	36	4.5	
79-00-5	1,1,2-Trichloroethane	ND	33	16	ND	6.0	3.0	
108-88-3	<b>Toluene</b>	<b>51</b>	160	16	<b>14</b>	43	4.3	<b>J</b>
591-78-6	2-Hexanone	ND	160	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	35	3.5	
127-18-4	<b>Tetrachloroethene</b>	<b>240</b>	33	16	<b>35</b>	4.8	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.1	3.6	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         *WA*              Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00834

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	31	160	20	7.2	38	4.7	J
179601-23-1	m,p-Xylenes	140	160	42	32	38	9.8	J
75-25-2	Bromoform	ND	160	25	ND	16	2.4	
100-42-5	Styrene	ND	160	25	ND	38	5.8	
95-47-6	o-Xylene	48	160	21	11	38	4.7	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	19	ND	33	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	160	20	ND	33	4.0	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	34	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.3	5.4	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.4	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	30	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.4	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.3	
91-20-3	Naphthalene	ND	65	24	ND	12	4.6	
87-68-3	Hexachlorobutadiene	ND	33	29	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	65	16	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	65	16	ND	12	3.0	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: \_\_\_\_\_ Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00786

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.79	0.079	0.40	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.077	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.092	0.79	0.079	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.041	0.020	
75-00-3	Chloroethane	ND	0.16	0.079	ND	0.060	0.030	
64-17-5	Ethanol	1.4	7.9	0.079	0.76	4.2	0.042	J
67-64-1	Acetone	4.0	7.9	0.12	1.7	3.3	0.049	J, B
75-69-4	Trichlorofluoromethane	2.1	0.16	0.079	0.38	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.40	0.79	0.12	0.13	0.26	0.039	J
75-09-2	Methylene Chloride	ND	0.79	0.079	ND	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.50	0.16	0.088	0.065	0.021	0.012	
75-15-0	Carbon Disulfide	0.65	0.79	0.19	0.21	0.25	0.061	J
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.079	ND	0.039	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.079	ND	0.044	0.022	
108-05-4	Vinyl Acetate	1.3	7.9	0.25	0.36	2.2	0.072	J
78-93-3	2-Butanone (MEK)	2.0	0.79	0.079	0.67	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	14	0.16	0.093	2.9	0.032	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

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COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00786

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

**Initial Pressure (psig):** -3.2      **Final Pressure (psig):** 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.081	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	ND	0.16	0.079	ND	0.039	0.020	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.10</b>	0.16	0.079	<b>0.018</b>	0.029	0.014	<b>J</b>
71-43-2	<b>Benzene</b>	<b>2.9</b>	0.16	0.079	<b>0.89</b>	0.049	0.025	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.11</b>	0.16	0.079	<b>0.017</b>	0.025	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.079	ND	0.034	0.017	
75-27-4	Bromodichloromethane	ND	0.16	0.079	ND	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>0.92</b>	0.16	0.079	<b>0.17</b>	0.029	0.015	
123-91-1	1,4-Dioxane	ND	0.79	0.096	ND	0.22	0.027	
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	n-Heptane	ND	0.79	0.10	ND	0.19	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.19</b>	0.79	0.088	<b>0.047</b>	0.19	0.022	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	<b>Toluene</b>	<b>2.0</b>	0.79	0.079	<b>0.52</b>	0.21	0.021	
591-78-6	<b>2-Hexanone</b>	<b>0.29</b>	0.79	0.12	<b>0.070</b>	0.19	0.029	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>0.22</b>	0.79	0.079	<b>0.047</b>	0.17	0.017	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>11</b>	0.16	0.079	<b>1.6</b>	0.023	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.081	ND	0.034	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: \_\_\_\_\_ Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00786

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.63	0.79	0.098	0.15	0.18	0.023	J
179601-23-1	m,p-Xylenes	4.4	0.79	0.21	1.0	0.18	0.047	
75-25-2	Bromoform	0.35	0.79	0.12	0.034	0.076	0.012	J
100-42-5	Styrene	4.7	0.79	0.12	1.1	0.19	0.028	
95-47-6	o-Xylene	2.6	0.79	0.10	0.60	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	0.10	0.79	0.088	0.021	0.16	0.018	J
103-65-1	n-Propylbenzene	0.36	0.79	0.082	0.072	0.16	0.017	J
622-96-8	4-Ethyltoluene	0.45	0.79	0.090	0.092	0.16	0.018	J
108-67-8	1,3,5-Trimethylbenzene	0.43	0.79	0.095	0.086	0.16	0.019	J
98-83-9	alpha-Methylstyrene	0.74	0.79	0.12	0.15	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	1.7	0.79	0.11	0.36	0.16	0.022	
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.098	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	3.1	0.16	0.088	0.51	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.092	ND	0.14	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.42	0.79	0.10	0.077	0.14	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	1.8	0.32	0.12	0.34	0.060	0.022	
87-68-3	Hexachlorobutadiene	ND	0.16	0.14	ND	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	n-Butylbenzene	0.48	0.32	0.079	0.087	0.058	0.014	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         CA              Date:     6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00995

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.83	0.083	0.51	0.17	0.017	
74-87-3	Chloromethane	ND	0.17	0.083	ND	0.080	0.040	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	0.083	ND	0.12	0.012	
75-01-4	Vinyl Chloride	ND	0.17	0.083	ND	0.065	0.032	
74-83-9	Bromomethane	0.085	0.17	0.083	0.022	0.043	0.021	J
75-00-3	Chloroethane	ND	0.17	0.083	ND	0.063	0.031	
64-17-5	Ethanol	3.3	8.3	0.083	1.8	4.4	0.044	J
67-64-1	Acetone	29	8.3	0.12	12	3.5	0.051	B, M
75-69-4	Trichlorofluoromethane	61	0.17	0.083	11	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.83	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.76	0.83	0.12	0.25	0.27	0.041	J
75-09-2	Methylene Chloride	0.13	0.83	0.083	0.038	0.24	0.024	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.083	ND	0.053	0.027	
76-13-1	Trichlorotrifluoroethane	1.9	0.17	0.093	0.25	0.022	0.012	
75-15-0	Carbon Disulfide	2.1	0.83	0.20	0.67	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
75-34-3	1,1-Dichloroethane	0.21	0.17	0.083	0.051	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.083	ND	0.046	0.023	
108-05-4	Vinyl Acetate	16	8.3	0.27	4.4	2.4	0.075	
78-93-3	2-Butanone (MEK)	7.3	0.83	0.083	2.5	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
108-20-3	Diisopropyl Ether	ND	0.83	0.098	ND	0.20	0.023	
67-66-3	Chloroform	33	0.17	0.098	6.8	0.034	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00995

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.83	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.083	ND	0.041	0.021	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.80</b>	0.17	0.083	<b>0.15</b>	0.030	0.015	
71-43-2	<b>Benzene</b>	<b>4.8</b>	0.17	0.083	<b>1.5</b>	0.052	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.11</b>	0.17	0.083	<b>0.017</b>	0.026	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.83	0.083	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.083	ND	0.036	0.018	
75-27-4	Bromodichloromethane	ND	0.17	0.083	ND	0.025	0.012	
79-01-6	<b>Trichloroethene</b>	<b>1,700</b>	0.17	0.083	<b>320</b>	0.031	0.015	
123-91-1	1,4-Dioxane	ND	0.83	0.10	ND	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.83	0.12	ND	0.20	0.030	
142-82-5	<b>n-Heptane</b>	<b>1.4</b>	0.83	0.11	<b>0.33</b>	0.20	0.026	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.086	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.9</b>	0.83	0.093	<b>0.72</b>	0.20	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.083	ND	0.030	0.015	
108-88-3	<b>Toluene</b>	<b>17</b>	0.83	0.083	<b>4.6</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>1.4</b>	0.83	0.13	<b>0.35</b>	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	<b>n-Octane</b>	<b>18</b>	0.83	0.083	<b>3.8</b>	0.18	0.018	
127-18-4	<b>Tetrachloroethene</b>	<b>630</b>	0.17	0.083	<b>94</b>	0.024	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>1.2</b>	0.17	0.085	<b>0.26</b>	0.036	0.018	

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Verified By:         *CA*              Date:         6/16/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00995

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	6.7	0.83	0.10	1.5	0.19	0.024	
179601-23-1	m,p-Xylenes	28	0.83	0.22	6.4	0.19	0.050	
75-25-2	Bromoform	ND	0.83	0.13	ND	0.080	0.012	
100-42-5	Styrene	0.20	0.83	0.13	0.047	0.20	0.030	J
95-47-6	o-Xylene	8.1	0.83	0.10	1.9	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.015	
98-82-8	Cumene	0.39	0.83	0.093	0.079	0.17	0.019	J
103-65-1	n-Propylbenzene	0.96	0.83	0.086	0.20	0.17	0.018	
622-96-8	4-Ethyltoluene	1.4	0.83	0.095	0.29	0.17	0.019	
108-67-8	1,3,5-Trimethylbenzene	1.6	0.83	0.10	0.33	0.17	0.020	
98-83-9	alpha-Methylstyrene	0.20	0.83	0.12	0.041	0.17	0.025	J
95-63-6	1,2,4-Trimethylbenzene	3.1	0.83	0.11	0.64	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.10	ND	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	5.8	0.17	0.093	0.96	0.028	0.015	
135-98-8	sec-Butylbenzene	ND	0.83	0.096	ND	0.15	0.018	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.2	0.83	0.11	0.23	0.15	0.020	
95-50-1	1,2-Dichlorobenzene	0.12	0.17	0.11	0.020	0.028	0.018	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.022	0.017	
91-20-3	Naphthalene	2.5	0.33	0.12	0.47	0.063	0.023	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.083	ND	0.061	0.015	
104-51-8	n-Butylbenzene	0.79	0.33	0.083	0.14	0.061	0.015	

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

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

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Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-012

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00627

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.7	0.17	0.40	0.33	0.033	
74-87-3	Chloromethane	ND	0.33	0.17	ND	0.16	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.17	ND	0.24	0.024	
75-01-4	Vinyl Chloride	0.52	0.33	0.17	0.20	0.13	0.065	
74-83-9	Bromomethane	ND	0.33	0.17	ND	0.085	0.043	
75-00-3	Chloroethane	100	0.33	0.17	39	0.13	0.063	
64-17-5	Ethanol	2.4	17	0.17	1.3	8.8	0.088	J, B
67-64-1	Acetone	14	17	0.24	5.7	6.9	0.10	J, B, M
75-69-4	Trichlorofluoromethane	1.0	0.33	0.17	0.19	0.059	0.029	
107-13-1	Acrylonitrile	ND	1.7	0.23	ND	0.76	0.11	
75-35-4	1,1-Dichloroethene	3.5	0.33	0.17	0.88	0.083	0.042	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.77	1.7	0.24	0.25	0.54	0.081	J
75-09-2	Methylene Chloride	12	1.7	0.17	3.5	0.48	0.048	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.17	ND	0.11	0.053	
76-13-1	Trichlorotrifluoroethane	0.48	0.33	0.18	0.062	0.043	0.024	
75-15-0	Carbon Disulfide	1.1	1.7	0.40	0.35	0.53	0.13	J
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.17	ND	0.083	0.042	
75-34-3	1,1-Dichloroethane	130	0.33	0.17	32	0.082	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.17	ND	0.092	0.046	
108-05-4	Vinyl Acetate	4.9	17	0.53	1.4	4.7	0.15	J, B
78-93-3	2-Butanone (MEK)	4.2	1.7	0.17	1.4	0.56	0.056	B
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.17	ND	0.083	0.042	
108-20-3	Diisopropyl Ether	ND	1.7	0.19	ND	0.39	0.047	
67-66-3	Chloroform	1,400	0.33	0.19	280	0.068	0.040	

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B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-012

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00627

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.7	0.17	ND	0.39	0.040	
107-06-2	<b>1,2-Dichloroethane</b>	<b>13</b>	0.33	0.17	<b>3.2</b>	0.082	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
71-43-2	<b>Benzene</b>	<b>5.0</b>	0.33	0.17	<b>1.6</b>	0.10	0.052	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.46</b>	0.33	0.17	<b>0.073</b>	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.7	0.17	ND	0.39	0.039	
78-87-5	1,2-Dichloropropane	ND	0.33	0.17	ND	0.071	0.036	
75-27-4	<b>Bromodichloromethane</b>	<b>0.24</b>	0.33	0.17	<b>0.036</b>	0.049	0.025	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>1.1</b>	0.33	0.17	<b>0.21</b>	0.061	0.031	
123-91-1	1,4-Dioxane	ND	1.7	0.20	ND	0.46	0.056	
80-62-6	Methyl Methacrylate	ND	1.7	0.25	ND	0.40	0.060	
142-82-5	<b>n-Heptane</b>	<b>0.52</b>	1.7	0.21	<b>0.13</b>	0.40	0.052	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.17	ND	0.36	0.038	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.85</b>	1.7	0.18	<b>0.21</b>	0.40	0.045	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.21	ND	0.36	0.046	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>5.4</b>	0.33	0.17	<b>0.99</b>	0.061	0.030	
108-88-3	<b>Toluene</b>	<b>8.4</b>	1.7	0.17	<b>2.2</b>	0.44	0.044	
591-78-6	<b>2-Hexanone</b>	<b>0.77</b>	1.7	0.25	<b>0.19</b>	0.40	0.061	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.039	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	<b>n-Octane</b>	<b>0.71</b>	1.7	0.17	<b>0.15</b>	0.35	0.035	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>65</b>	0.33	0.17	<b>9.5</b>	0.049	0.024	
108-90-7	<b>Chlorobenzene</b>	<b>1.5</b>	0.33	0.17	<b>0.32</b>	0.072	0.037	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-012

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00627

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.4	1.7	0.20	0.56	0.38	0.047	
179601-23-1	m,p-Xylenes	11	1.7	0.43	2.5	0.38	0.099	
75-25-2	Bromoform	ND	1.7	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.7	0.25	ND	0.39	0.059	
95-47-6	o-Xylene	3.5	1.7	0.21	0.81	0.38	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	ND	1.7	0.18	ND	0.34	0.038	
103-65-1	n-Propylbenzene	0.56	1.7	0.17	0.11	0.34	0.035	J
622-96-8	4-Ethyltoluene	0.88	1.7	0.19	0.18	0.34	0.038	J
108-67-8	1,3,5-Trimethylbenzene	0.93	1.7	0.20	0.19	0.34	0.040	J
98-83-9	alpha-Methylstyrene	ND	1.7	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	2.2	1.7	0.23	0.45	0.34	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.064	0.055	
541-73-1	1,3-Dichlorobenzene	0.25	0.33	0.20	0.041	0.055	0.034	J
106-46-7	1,4-Dichlorobenzene	11	0.33	0.18	1.8	0.055	0.031	
135-98-8	sec-Butylbenzene	ND	1.7	0.19	ND	0.30	0.035	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.47	1.7	0.21	0.085	0.30	0.039	J
95-50-1	1,2-Dichlorobenzene	0.33	0.33	0.22	0.055	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	1.9	0.33	0.25	0.25	0.044	0.034	
91-20-3	Naphthalene	6.9	0.66	0.24	1.3	0.13	0.047	B
87-68-3	Hexachlorobutadiene	4.8	0.33	0.30	0.45	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.17	ND	0.12	0.030	
104-51-8	n-Butylbenzene	1.7	0.66	0.17	0.31	0.12	0.030	

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

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

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B = Analyte was found in the method blank.

Verified By: CA      Date: 6/16/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-013

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00043

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.4	0.14	0.39	0.28	0.028	
74-87-3	Chloromethane	ND	0.28	0.14	ND	0.13	0.067	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.4	0.14	ND	0.20	0.020	
75-01-4	Vinyl Chloride	0.50	0.28	0.14	0.19	0.11	0.054	
74-83-9	Bromomethane	ND	0.28	0.14	ND	0.072	0.036	
75-00-3	Chloroethane	100	0.28	0.14	39	0.11	0.053	
64-17-5	Ethanol	2.5	14	0.14	1.3	7.4	0.074	J, B
67-64-1	Acetone	13	14	0.20	5.4	5.9	0.085	J, B, M
75-69-4	Trichlorofluoromethane	1.1	0.28	0.14	0.19	0.049	0.025	
107-13-1	Acrylonitrile	ND	1.4	0.19	ND	0.64	0.090	
75-35-4	1,1-Dichloroethene	3.6	0.28	0.14	0.92	0.070	0.035	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	1.4	1.4	0.21	0.46	0.46	0.068	
75-09-2	Methylene Chloride	12	1.4	0.14	3.5	0.40	0.040	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.28	0.14	ND	0.089	0.044	
76-13-1	Trichlorotrifluoroethane	0.49	0.28	0.16	0.064	0.036	0.020	
75-15-0	Carbon Disulfide	18	1.4	0.33	5.7	0.45	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.28	0.14	ND	0.070	0.035	
75-34-3	1,1-Dichloroethane	130	0.28	0.14	32	0.069	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.28	0.14	ND	0.077	0.039	
108-05-4	Vinyl Acetate	4.3	14	0.44	1.2	3.9	0.13	J, B
78-93-3	2-Butanone (MEK)	4.9	1.4	0.14	1.7	0.47	0.047	B
156-59-2	cis-1,2-Dichloroethene	ND	0.28	0.14	ND	0.070	0.035	
108-20-3	Diisopropyl Ether	ND	1.4	0.16	ND	0.33	0.039	
67-66-3	Chloroform	1,300	0.28	0.16	270	0.057	0.034	

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B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-013

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00043

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result μg/m <sup>3</sup>	MRL μg/m <sup>3</sup>	MDL μg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.4	0.14	ND	0.33	0.034	
107-06-2	<b>1,2-Dichloroethane</b>	<b>13</b>	0.28	0.14	<b>3.2</b>	0.069	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.28	0.14	ND	0.051	0.025	
71-43-2	<b>Benzene</b>	<b>3.4</b>	0.28	0.14	<b>1.1</b>	0.087	0.044	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.44</b>	0.28	0.14	<b>0.070</b>	0.044	0.022	
994-05-8	tert-Amyl Methyl Ether	ND	1.4	0.14	ND	0.33	0.033	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.17</b>	0.28	0.14	<b>0.037</b>	0.060	0.030	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.27</b>	0.28	0.14	<b>0.040</b>	0.042	0.021	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>0.69</b>	0.28	0.14	<b>0.13</b>	0.052	0.026	
123-91-1	<b>1,4-Dioxane</b>	<b>0.39</b>	1.4	0.17	<b>0.11</b>	0.39	0.047	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.4	0.21	ND	0.34	0.051	
142-82-5	<b>n-Heptane</b>	<b>0.44</b>	1.4	0.18	<b>0.11</b>	0.34	0.043	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	0.14	ND	0.31	0.032	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>1.4</b>	1.4	0.16	<b>0.34</b>	0.34	0.038	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.18	ND	0.31	0.039	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>5.6</b>	0.28	0.14	<b>1.0</b>	0.051	0.025	
108-88-3	<b>Toluene</b>	<b>8.4</b>	1.4	0.14	<b>2.2</b>	0.37	0.037	
591-78-6	<b>2-Hexanone</b>	<b>0.61</b>	1.4	0.21	<b>0.15</b>	0.34	0.052	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.28	0.19	ND	0.033	0.022	
106-93-4	1,2-Dibromoethane	ND	0.28	0.15	ND	0.036	0.020	
111-65-9	<b>n-Octane</b>	<b>0.63</b>	1.4	0.14	<b>0.13</b>	0.30	0.030	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>66</b>	0.28	0.14	<b>9.7</b>	0.041	0.021	
108-90-7	<b>Chlorobenzene</b>	<b>1.5</b>	0.28	0.14	<b>0.32</b>	0.060	0.031	

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Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-013

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00043

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.3	1.4	0.17	0.75	0.32	0.040	
179601-23-1	m,p-Xylenes	16	1.4	0.36	3.7	0.32	0.083	
75-25-2	Bromoform	ND	1.4	0.21	ND	0.13	0.020	
100-42-5	Styrene	0.28	1.4	0.21	0.067	0.33	0.050	J
95-47-6	o-Xylene	5.2	1.4	0.18	1.2	0.32	0.040	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.28	0.18	ND	0.040	0.026	
98-82-8	Cumene	0.21	1.4	0.16	0.042	0.28	0.032	J
103-65-1	n-Propylbenzene	0.84	1.4	0.14	0.17	0.28	0.029	J
622-96-8	4-Ethyltoluene	1.5	1.4	0.16	0.31	0.28	0.032	
108-67-8	1,3,5-Trimethylbenzene	1.5	1.4	0.17	0.31	0.28	0.034	
98-83-9	alpha-Methylstyrene	ND	1.4	0.20	ND	0.29	0.042	
95-63-6	1,2,4-Trimethylbenzene	4.5	1.4	0.19	0.91	0.28	0.039	
100-44-7	Benzyl Chloride	ND	0.28	0.24	ND	0.054	0.046	
541-73-1	1,3-Dichlorobenzene	0.24	0.28	0.17	0.040	0.046	0.029	J
106-46-7	1,4-Dichlorobenzene	4.5	0.28	0.16	0.75	0.046	0.026	
135-98-8	sec-Butylbenzene	ND	1.4	0.16	ND	0.25	0.029	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.2	1.4	0.18	0.21	0.25	0.033	J
95-50-1	1,2-Dichlorobenzene	0.30	0.28	0.18	0.049	0.046	0.031	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.21	ND	0.14	0.022	
120-82-1	1,2,4-Trichlorobenzene	2.0	0.28	0.21	0.27	0.037	0.028	
91-20-3	Naphthalene	7.2	0.56	0.21	1.4	0.11	0.039	B
87-68-3	Hexachlorobutadiene	5.6	0.28	0.25	0.52	0.026	0.023	
98-06-6	tert-Butylbenzene	ND	0.56	0.14	ND	0.10	0.025	
104-51-8	n-Butylbenzene	1.0	0.56	0.14	0.19	0.10	0.025	

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

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B = Analyte was found in the method blank.

Verified By: let      Date: 6/16/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00547

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.82	0.082	0.40	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.082	ND	0.079	0.039	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.093	0.82	0.082	0.013	0.12	0.012	J
75-01-4	Vinyl Chloride	ND	0.16	0.082	ND	0.064	0.032	
74-83-9	Bromomethane	ND	0.16	0.082	ND	0.042	0.021	
75-00-3	Chloroethane	ND	0.16	0.082	ND	0.062	0.031	
64-17-5	Ethanol	4.1	8.2	0.082	2.2	4.3	0.043	J
67-64-1	Acetone	16	8.2	0.12	6.6	3.4	0.050	B, M
75-69-4	Trichlorofluoromethane	1.1	0.16	0.082	0.19	0.029	0.015	
107-13-1	Acrylonitrile	0.11	0.82	0.11	0.053	0.38	0.053	J
75-35-4	1,1-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.46	0.82	0.12	0.15	0.27	0.040	J
75-09-2	Methylene Chloride	0.15	0.82	0.082	0.043	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.082	ND	0.052	0.026	
76-13-1	Trichlorotrifluoroethane	0.49	0.16	0.091	0.064	0.021	0.012	
75-15-0	Carbon Disulfide	2.5	0.82	0.20	0.80	0.26	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-34-3	1,1-Dichloroethane	ND	0.16	0.082	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.082	ND	0.045	0.023	
108-05-4	Vinyl Acetate	7.4	8.2	0.26	2.1	2.3	0.074	J
78-93-3	2-Butanone (MEK)	3.3	0.82	0.082	1.1	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
108-20-3	Diisopropyl Ether	ND	0.82	0.096	ND	0.20	0.023	
67-66-3	Chloroform	1.3	0.16	0.096	0.27	0.033	0.020	

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B = Analyte was found in the method blank.

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Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00547

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.82	0.083	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.082	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.082	ND	0.030	0.015	
71-43-2	<b>Benzene</b>	<b>2.9</b>	0.16	0.082	<b>0.90</b>	0.051	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.12</b>	0.16	0.082	<b>0.019</b>	0.026	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.82	0.082	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.16	0.082	ND	0.035	0.018	
75-27-4	Bromodichloromethane	ND	0.16	0.082	ND	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>0.14</b>	0.16	0.082	<b>0.026</b>	0.030	0.015	<b>J</b>
123-91-1	<b>1,4-Dioxane</b>	<b>0.83</b>	0.82	0.099	<b>0.23</b>	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.82	0.12	ND	0.20	0.030	
142-82-5	<b>n-Heptane</b>	<b>0.16</b>	0.82	0.10	<b>0.040</b>	0.20	0.025	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.085	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.51</b>	0.82	0.091	<b>0.13</b>	0.20	0.022	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.082	ND	0.030	0.015	
108-88-3	<b>Toluene</b>	<b>3.2</b>	0.82	0.082	<b>0.85</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>0.47</b>	0.82	0.12	<b>0.11</b>	0.20	0.030	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.088	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>0.34</b>	0.82	0.082	<b>0.073</b>	0.17	0.017	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>0.52</b>	0.16	0.082	<b>0.076</b>	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.083	ND	0.035	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         *Lot*              Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00547

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.1	0.82	0.10	0.24	0.19	0.023	
179601-23-1	m,p-Xylenes	6.1	0.82	0.21	1.4	0.19	0.049	
75-25-2	Bromoform	ND	0.82	0.12	ND	0.079	0.012	
100-42-5	Styrene	0.15	0.82	0.12	0.034	0.19	0.029	J
95-47-6	o-Xylene	2.9	0.82	0.10	0.68	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	0.17	0.16	0.10	0.024	0.024	0.015	
98-82-8	Cumene	0.14	0.82	0.091	0.029	0.17	0.019	J
103-65-1	n-Propylbenzene	0.68	0.82	0.085	0.14	0.17	0.017	J
622-96-8	4-Ethyltoluene	0.86	0.82	0.093	0.17	0.17	0.019	
108-67-8	1,3,5-Trimethylbenzene	0.77	0.82	0.098	0.16	0.17	0.020	J
98-83-9	alpha-Methylstyrene	ND	0.82	0.12	ND	0.17	0.025	
95-63-6	1,2,4-Trimethylbenzene	3.1	0.82	0.11	0.63	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.10	ND	0.027	0.017	
106-46-7	1,4-Dichlorobenzene	0.35	0.16	0.091	0.058	0.027	0.015	
135-98-8	sec-Butylbenzene	0.12	0.82	0.095	0.021	0.15	0.017	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.0	0.82	0.11	0.19	0.15	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	0.12	ND	0.084	0.013	
120-82-1	1,2,4-Trichlorobenzene	0.14	0.16	0.12	0.019	0.022	0.017	J
91-20-3	Naphthalene	1.3	0.33	0.12	0.25	0.062	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.15	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.082	ND	0.059	0.015	
104-51-8	n-Butylbenzene	0.39	0.33	0.082	0.071	0.059	0.015	

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

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

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Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00042

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.5	0.15	0.38	0.31	0.031	
74-87-3	Chloromethane	0.46	0.31	0.15	0.22	0.15	0.074	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.5	0.15	ND	0.22	0.022	
75-01-4	Vinyl Chloride	1.3	0.31	0.15	0.51	0.12	0.060	
74-83-9	Bromomethane	0.50	0.31	0.15	0.13	0.079	0.039	
75-00-3	Chloroethane	1.5	0.31	0.15	0.57	0.12	0.058	
64-17-5	Ethanol	11	15	0.15	5.9	8.1	0.081	J, B
67-64-1	Acetone	35	15	0.22	15	6.4	0.094	B
75-69-4	Trichlorofluoromethane	5.2	0.31	0.15	0.93	0.054	0.027	
107-13-1	Acrylonitrile	ND	1.5	0.21	ND	0.71	0.099	
75-35-4	1,1-Dichloroethene	51	0.31	0.15	13	0.077	0.039	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	17	1.5	0.23	5.7	0.50	0.075	
75-09-2	Methylene Chloride	0.89	1.5	0.15	0.26	0.44	0.044	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.31	0.15	ND	0.098	0.049	
76-13-1	Trichlorotrifluoroethane	0.68	0.31	0.17	0.089	0.040	0.022	
75-15-0	Carbon Disulfide	4.6	1.5	0.37	1.5	0.49	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.31	0.15	ND	0.077	0.039	
75-34-3	1,1-Dichloroethane	290	0.31	0.15	73	0.076	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.31	0.15	ND	0.085	0.042	
108-05-4	Vinyl Acetate	4.3	15	0.49	1.2	4.3	0.14	J, B
78-93-3	2-Butanone (MEK)	10	1.5	0.15	3.4	0.52	0.052	B
156-59-2	cis-1,2-Dichloroethene	ND	0.31	0.15	ND	0.077	0.039	
108-20-3	Diisopropyl Ether	ND	1.5	0.18	ND	0.37	0.043	
67-66-3	Chloroform	65	0.31	0.18	13	0.063	0.037	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/16/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00042

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.5	0.16	ND	0.37	0.037	
107-06-2	1,2-Dichloroethane	ND	0.31	0.15	ND	0.076	0.038	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>14</b>	0.31	0.15	<b>2.6</b>	0.056	0.028	
71-43-2	<b>Benzene</b>	<b>6.8</b>	0.31	0.15	<b>2.1</b>	0.096	0.048	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.46</b>	0.31	0.15	<b>0.073</b>	0.049	0.024	
994-05-8	tert-Amyl Methyl Ether	ND	1.5	0.15	ND	0.37	0.037	
78-87-5	1,2-Dichloropropane	ND	0.31	0.15	ND	0.066	0.033	
75-27-4	Bromodichloromethane	ND	0.31	0.15	ND	0.046	0.023	
79-01-6	<b>Trichloroethene</b>	<b>180</b>	0.31	0.15	<b>33</b>	0.057	0.028	
123-91-1	<b>1,4-Dioxane</b>	<b>2.8</b>	1.5	0.19	<b>0.78</b>	0.42	0.052	
80-62-6	Methyl Methacrylate	ND	1.5	0.23	ND	0.37	0.056	
142-82-5	<b>n-Heptane</b>	<b>4.6</b>	1.5	0.20	<b>1.1</b>	0.37	0.048	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	0.16	ND	0.34	0.035	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>5.2</b>	1.5	0.17	<b>1.3</b>	0.37	0.042	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.19	ND	0.34	0.042	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.25</b>	0.31	0.15	<b>0.046</b>	0.056	0.028	<b>J</b>
108-88-3	<b>Toluene</b>	<b>23</b>	1.5	0.15	<b>6.0</b>	0.41	0.041	
591-78-6	<b>2-Hexanone</b>	<b>1.4</b>	1.5	0.23	<b>0.35</b>	0.37	0.057	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.31	0.21	ND	0.036	0.024	
106-93-4	1,2-Dibromoethane	ND	0.31	0.17	ND	0.040	0.022	
111-65-9	<b>n-Octane</b>	<b>4.9</b>	1.5	0.15	<b>1.1</b>	0.33	0.033	
127-18-4	<b>Tetrachloroethene</b>	<b>330</b>	0.31	0.15	<b>48</b>	0.045	0.023	
108-90-7	<b>Chlorobenzene</b>	<b>0.90</b>	0.31	0.16	<b>0.20</b>	0.066	0.034	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: LA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00042

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2 - 6/3/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.62	1.5	0.19	0.14	0.35	0.044	J
179601-23-1	m,p-Xylenes	2.9	1.5	0.40	0.67	0.35	0.092	
75-25-2	Bromoform	ND	1.5	0.23	ND	0.15	0.023	
100-42-5	Styrene	0.33	1.5	0.23	0.077	0.36	0.055	J
95-47-6	o-Xylene	1.8	1.5	0.19	0.41	0.35	0.044	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.31	0.20	ND	0.045	0.029	
98-82-8	Cumene	0.40	1.5	0.17	0.081	0.31	0.035	J
103-65-1	n-Propylbenzene	ND	1.5	0.16	ND	0.31	0.032	
622-96-8	4-Ethyltoluene	0.31	1.5	0.17	0.064	0.31	0.035	J
108-67-8	1,3,5-Trimethylbenzene	5.7	1.5	0.18	1.2	0.31	0.037	
98-83-9	alpha-Methylstyrene	0.32	1.5	0.22	0.066	0.32	0.046	J
95-63-6	1,2,4-Trimethylbenzene	2.1	1.5	0.21	0.42	0.31	0.043	
100-44-7	Benzyl Chloride	ND	0.31	0.26	ND	0.059	0.051	
541-73-1	1,3-Dichlorobenzene	ND	0.31	0.19	ND	0.051	0.032	
106-46-7	1,4-Dichlorobenzene	2.8	0.31	0.17	0.46	0.051	0.029	
135-98-8	sec-Butylbenzene	0.44	1.5	0.18	0.080	0.28	0.032	J
99-87-6	4-Isopropyltoluene (p-Cymene)	2.6	1.5	0.20	0.47	0.28	0.036	
95-50-1	1,2-Dichlorobenzene	1.1	0.31	0.20	0.18	0.051	0.034	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.23	ND	0.16	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	0.31	0.23	ND	0.041	0.031	
91-20-3	Naphthalene	ND	0.61	0.23	ND	0.12	0.043	
87-68-3	Hexachlorobutadiene	ND	0.31	0.28	ND	0.029	0.026	
98-06-6	tert-Butylbenzene	0.35	0.61	0.15	0.065	0.11	0.028	J
104-51-8	n-Butylbenzene	ND	0.61	0.15	ND	0.11	0.028	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00553

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.89	0.089	0.37	0.18	0.018	
74-87-3	Chloromethane	ND	0.18	0.089	ND	0.086	0.043	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.89	0.089	ND	0.13	0.013	
75-01-4	Vinyl Chloride	ND	0.18	0.089	ND	0.070	0.035	
74-83-9	Bromomethane	ND	0.18	0.089	ND	0.046	0.023	
75-00-3	Chloroethane	0.14	0.18	0.089	0.053	0.067	0.034	J
64-17-5	Ethanol	5.5	8.9	0.089	2.9	4.7	0.047	J
67-64-1	Acetone	39	8.9	0.13	16	3.7	0.055	B
75-69-4	Trichlorofluoromethane	0.98	0.18	0.089	0.17	0.032	0.016	
107-13-1	Acrylonitrile	ND	0.89	0.12	ND	0.41	0.057	
75-35-4	1,1-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.70	0.89	0.13	0.23	0.29	0.043	J
75-09-2	Methylene Chloride	0.19	0.89	0.089	0.054	0.26	0.026	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	0.089	ND	0.057	0.028	
76-13-1	Trichlorotrifluoroethane	0.45	0.18	0.10	0.058	0.023	0.013	
75-15-0	Carbon Disulfide	32	0.89	0.21	10	0.29	0.069	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
75-34-3	1,1-Dichloroethane	ND	0.18	0.089	ND	0.044	0.022	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	0.089	ND	0.049	0.025	
108-05-4	Vinyl Acetate	16	8.9	0.28	4.4	2.5	0.081	
78-93-3	2-Butanone (MEK)	5.6	0.89	0.089	1.9	0.30	0.030	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
108-20-3	Diisopropyl Ether	ND	0.89	0.11	ND	0.21	0.025	
67-66-3	Chloroform	0.83	0.18	0.11	0.17	0.036	0.022	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA

Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00553

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.89	0.091	ND	0.21	0.022	
107-06-2	1,2-Dichloroethane	ND	0.18	0.089	ND	0.044	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
71-43-2	<b>Benzene</b>	<b>4.1</b>	0.18	0.089	<b>1.3</b>	0.056	0.028	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.32</b>	0.18	0.089	<b>0.051</b>	0.028	0.014	
994-05-8	tert-Amyl Methyl Ether	ND	0.89	0.089	ND	0.21	0.021	
78-87-5	1,2-Dichloropropane	ND	0.18	0.089	ND	0.039	0.019	
75-27-4	Bromodichloromethane	ND	0.18	0.089	ND	0.027	0.013	
79-01-6	<b>Trichloroethene</b>	<b>0.16</b>	0.18	0.089	<b>0.029</b>	0.033	0.017	<b>J</b>
123-91-1	<b>1,4-Dioxane</b>	<b>0.49</b>	0.89	0.11	<b>0.14</b>	0.25	0.030	<b>J</b>
80-62-6	<b>Methyl Methacrylate</b>	<b>0.14</b>	0.89	0.13	<b>0.034</b>	0.22	0.033	<b>J</b>
142-82-5	<b>n-Heptane</b>	<b>0.16</b>	0.89	0.11	<b>0.038</b>	0.22	0.028	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.093	ND	0.20	0.020	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.89</b>	0.89	0.10	<b>0.22</b>	0.22	0.024	
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	0.11	ND	0.20	0.025	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
108-88-3	<b>Toluene</b>	<b>5.1</b>	0.89	0.089	<b>1.4</b>	0.24	0.024	
591-78-6	<b>2-Hexanone</b>	<b>0.34</b>	0.89	0.14	<b>0.083</b>	0.22	0.033	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.021	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.096	ND	0.023	0.013	
111-65-9	n-Octane	ND	0.89	0.089	ND	0.19	0.019	
127-18-4	<b>Tetrachloroethene</b>	<b>0.47</b>	0.18	0.089	<b>0.069</b>	0.026	0.013	
108-90-7	Chlorobenzene	ND	0.18	0.091	ND	0.039	0.020	

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Verified By:          Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00553

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.62	0.89	0.11	0.14	0.20	0.025	J
179601-23-1	m,p-Xylenes	2.3	0.89	0.23	0.52	0.20	0.053	
75-25-2	Bromoform	ND	0.89	0.14	ND	0.086	0.013	
100-42-5	Styrene	0.20	0.89	0.14	0.047	0.21	0.032	J
95-47-6	o-Xylene	0.72	0.89	0.11	0.17	0.20	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.11	ND	0.026	0.017	
98-82-8	Cumene	ND	0.89	0.10	ND	0.18	0.020	
103-65-1	n-Propylbenzene	ND	0.89	0.093	ND	0.18	0.019	
622-96-8	4-Ethyltoluene	0.17	0.89	0.10	0.034	0.18	0.021	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.89	0.11	0.037	0.18	0.022	J
98-83-9	alpha-Methylstyrene	0.21	0.89	0.13	0.043	0.18	0.027	J
95-63-6	1,2,4-Trimethylbenzene	1.5	0.89	0.12	0.30	0.18	0.025	
100-44-7	Benzyl Chloride	ND	0.18	0.15	ND	0.034	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.18	0.11	ND	0.030	0.018	
106-46-7	1,4-Dichlorobenzene	2.2	0.18	0.10	0.37	0.030	0.017	
135-98-8	sec-Butylbenzene	ND	0.89	0.10	ND	0.16	0.019	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.9	0.89	0.12	0.34	0.16	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.18	0.12	ND	0.030	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.89	0.14	ND	0.092	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.18	0.14	ND	0.024	0.018	
91-20-3	Naphthalene	0.83	0.36	0.13	0.16	0.068	0.025	
87-68-3	Hexachlorobutadiene	ND	0.18	0.16	ND	0.017	0.015	
98-06-6	tert-Butylbenzene	ND	0.36	0.089	ND	0.065	0.016	
104-51-8	n-Butylbenzene	0.61	0.36	0.089	0.11	0.065	0.016	

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Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

**CAS Project ID:** P0801548  
**CAS Sample ID:** P0801548-017

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00908

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.75	0.075	0.40	0.15	0.015	
74-87-3	Chloromethane	ND	0.15	0.075	ND	0.072	0.036	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.085	0.75	0.075	0.012	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.075	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.075	ND	0.038	0.019	
75-00-3	Chloroethane	ND	0.15	0.075	ND	0.056	0.028	
64-17-5	Ethanol	2.2	7.5	0.075	1.2	4.0	0.040	J
67-64-1	Acetone	12	7.5	0.11	5.2	3.1	0.046	B
75-69-4	Trichlorofluoromethane	1.3	0.15	0.075	0.23	0.027	0.013	
107-13-1	Acrylonitrile	ND	0.75	0.10	ND	0.34	0.048	
75-35-4	1,1-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	0.75	0.11	0.097	0.25	0.036	J
75-09-2	Methylene Chloride	0.097	0.75	0.075	0.028	0.21	0.021	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.075	ND	0.048	0.024	
76-13-1	Trichlorotrifluoroethane	0.46	0.15	0.083	0.060	0.019	0.011	
75-15-0	Carbon Disulfide	10	0.75	0.18	3.2	0.24	0.057	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.075	ND	0.041	0.021	
108-05-4	Vinyl Acetate	2.4	7.5	0.24	0.68	2.1	0.068	J
78-93-3	2-Butanone (MEK)	2.9	0.75	0.075	1.0	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	0.14	0.15	0.075	0.036	0.038	0.019	J
108-20-3	Diisopropyl Ether	ND	0.75	0.088	ND	0.18	0.021	
67-66-3	Chloroform	36	0.15	0.088	7.3	0.031	0.018	

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B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-017

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00908

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data Qualifier
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	
637-92-3	Ethyl tert-Butyl Ether	ND	0.75	0.076	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
71-43-2	<b>Benzene</b>	<b>2.4</b>	0.15	0.075	<b>0.75</b>	0.047	0.023	
56-23-5	<b>Carbon Tetrachloride</b>	<b>3.5</b>	0.15	0.075	<b>0.56</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.75	0.075	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.075	ND	0.032	0.016	
75-27-4	<b>Bromodichloromethane</b>	<b>0.14</b>	0.15	0.075	<b>0.020</b>	0.022	0.011	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>18</b>	0.15	0.075	<b>3.3</b>	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.75	0.091	ND	0.21	0.025	
80-62-6	Methyl Methacrylate	ND	0.75	0.11	ND	0.18	0.027	
142-82-5	<b>n-Heptane</b>	<b>0.14</b>	0.75	0.095	<b>0.033</b>	0.18	0.023	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.077	ND	0.16	0.017	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.5</b>	0.75	0.083	<b>0.62</b>	0.18	0.020	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.094	ND	0.16	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
108-88-3	<b>Toluene</b>	<b>1.8</b>	0.75	0.075	<b>0.47</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>0.42</b>	0.75	0.11	<b>0.10</b>	0.18	0.028	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.080	ND	0.019	0.010	
111-65-9	<b>n-Octane</b>	<b>0.43</b>	0.75	0.075	<b>0.092</b>	0.16	0.016	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>9.1</b>	0.15	0.075	<b>1.3</b>	0.022	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.076	ND	0.032	0.017	

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Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-017

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00908

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.85	0.75	0.092	0.20	0.17	0.021	
179601-23-1	m,p-Xylenes	3.7	0.75	0.19	0.85	0.17	0.045	
75-25-2	Bromoform	ND	0.75	0.11	ND	0.072	0.011	
100-42-5	Styrene	0.13	0.75	0.11	0.031	0.18	0.027	J
95-47-6	o-Xylene	1.4	0.75	0.094	0.33	0.17	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.095	ND	0.022	0.014	
98-82-8	Cumene	ND	0.75	0.083	ND	0.15	0.017	
103-65-1	n-Propylbenzene	0.24	0.75	0.077	0.048	0.15	0.016	J
622-96-8	4-Ethyltoluene	0.25	0.75	0.085	0.051	0.15	0.017	J
108-67-8	1,3,5-Trimethylbenzene	0.38	0.75	0.089	0.078	0.15	0.018	J
98-83-9	alpha-Methylstyrene	ND	0.75	0.11	ND	0.15	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.77	0.75	0.10	0.16	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.029	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.092	ND	0.025	0.015	
106-46-7	1,4-Dichlorobenzene	4.2	0.15	0.083	0.70	0.025	0.014	
135-98-8	sec-Butylbenzene	ND	0.75	0.086	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.5	0.75	0.097	0.27	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.098	ND	0.025	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	0.11	ND	0.077	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	Naphthalene	1.3	0.30	0.11	0.26	0.057	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.30	0.075	ND	0.054	0.014	
104-51-8	n-Butylbenzene	0.24	0.30	0.075	0.044	0.054	0.014	J

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Verified By: LA      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

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**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-018

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00295

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result μg/m <sup>3</sup>	MRL μg/m <sup>3</sup>	MDL μg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	36	3.6	ND	7.2	0.72	
74-87-3	Chloromethane	ND	7.1	3.6	ND	3.4	1.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	36	3.6	ND	5.1	0.51	
75-01-4	Vinyl Chloride	ND	7.1	3.6	ND	2.8	1.4	
74-83-9	Bromomethane	ND	7.1	3.6	ND	1.8	0.92	
75-00-3	Chloroethane	ND	7.1	3.6	ND	2.7	1.3	
64-17-5	<b>Ethanol</b>	<b>14</b>	360	3.6	<b>7.2</b>	190	1.9	<b>J, B</b>
67-64-1	<b>Acetone</b>	<b>23</b>	360	5.2	<b>9.6</b>	150	2.2	<b>J, B</b>
75-69-4	<b>Trichlorofluoromethane</b>	<b>3.8</b>	7.1	3.6	<b>0.68</b>	1.3	0.63	<b>J</b>
107-13-1	Acrylonitrile	ND	36	5.0	ND	16	2.3	
75-35-4	1,1-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	36	5.3	ND	12	1.7	
75-09-2	<b>Methylene Chloride</b>	<b>16</b>	36	3.6	<b>4.7</b>	10	1.0	<b>J</b>
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.1	3.6	ND	2.3	1.1	
76-13-1	Trichlorotrifluoroethane	ND	7.1	4.0	ND	0.93	0.52	
75-15-0	<b>Carbon Disulfide</b>	<b>14</b>	36	8.5	<b>4.4</b>	11	2.7	<b>J</b>
156-60-5	trans-1,2-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
75-34-3	<b>1,1-Dichloroethane</b>	<b>35</b>	7.1	3.6	<b>8.6</b>	1.8	0.88	
1634-04-4	Methyl tert-Butyl Ether	ND	7.1	3.6	ND	2.0	0.99	
108-05-4	Vinyl Acetate	ND	360	11	ND	100	3.2	
78-93-3	2-Butanone (MEK)	ND	36	3.6	ND	12	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
108-20-3	Diisopropyl Ether	ND	36	4.2	ND	8.5	1.0	
67-66-3	<b>Chloroform</b>	<b>19,000</b>	7.1	4.2	<b>3,900</b>	1.5	0.86	

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B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-018

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00295

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	36	3.6	ND	8.5	0.87	
107-06-2	<b>1,2-Dichloroethane</b>	<b>5.8</b>	7.1	3.6	<b>1.4</b>	1.8	0.88	<b>J</b>
71-55-6	1,1,1-Trichloroethane	ND	7.1	3.6	ND	1.3	0.65	
71-43-2	<b>Benzene</b>	<b>3.8</b>	7.1	3.6	<b>1.2</b>	2.2	1.1	<b>J</b>
56-23-5	Carbon Tetrachloride	ND	7.1	3.6	ND	1.1	0.57	
994-05-8	tert-Amyl Methyl Ether	ND	36	3.6	ND	8.5	0.85	
78-87-5	1,2-Dichloropropane	ND	7.1	3.6	ND	1.5	0.77	
75-27-4	Bromodichloromethane	ND	7.1	3.6	ND	1.1	0.53	
79-01-6	Trichloroethene	ND	7.1	3.6	ND	1.3	0.66	
123-91-1	1,4-Dioxane	ND	36	4.3	ND	9.9	1.2	
80-62-6	Methyl Methacrylate	ND	36	5.3	ND	8.7	1.3	
142-82-5	n-Heptane	ND	36	4.6	ND	8.7	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	36	3.7	ND	7.8	0.82	
108-10-1	4-Methyl-2-pentanone	ND	36	4.0	ND	8.7	0.97	
10061-02-6	trans-1,3-Dichloropropene	ND	36	4.5	ND	7.8	0.99	
79-00-5	1,1,2-Trichloroethane	ND	7.1	3.6	ND	1.3	0.65	
108-88-3	<b>Toluene</b>	<b>13</b>	36	3.6	<b>3.4</b>	9.5	0.95	<b>J</b>
591-78-6	2-Hexanone	ND	36	5.4	ND	8.7	1.3	
124-48-1	Dibromochloromethane	ND	7.1	4.8	ND	0.84	0.57	
106-93-4	1,2-Dibromoethane	ND	7.1	3.8	ND	0.93	0.50	
111-65-9	n-Octane	ND	36	3.6	ND	7.6	0.76	
127-18-4	<b>Tetrachloroethene</b>	<b>20</b>	7.1	3.6	<b>2.9</b>	1.1	0.53	
108-90-7	Chlorobenzene	ND	7.1	3.6	ND	1.5	0.79	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         14              Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

**CAS Project ID:** P0801548  
**CAS Sample ID:** P0801548-018

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00295

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	36	4.4	ND	8.2	1.0	
179601-23-1	m,p-Xylenes	ND	36	9.3	ND	8.2	2.1	
75-25-2	Bromoform	ND	36	5.4	ND	3.4	0.52	
100-42-5	Styrene	ND	36	5.4	ND	8.4	1.3	
95-47-6	o-Xylene	ND	36	4.5	ND	8.2	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.1	4.6	ND	1.0	0.66	
98-82-8	Cumene	ND	36	4.0	ND	7.2	0.81	
103-65-1	n-Propylbenzene	ND	36	3.7	ND	7.2	0.75	
622-96-8	4-Ethyltoluene	ND	36	4.1	ND	7.2	0.83	
108-67-8	1,3,5-Trimethylbenzene	ND	36	4.3	ND	7.2	0.87	
98-83-9	alpha-Methylstyrene	ND	36	5.2	ND	7.4	1.1	
95-63-6	1,2,4-Trimethylbenzene	ND	36	4.9	ND	7.2	1.0	
100-44-7	Benzyl Chloride	ND	7.1	6.1	ND	1.4	1.2	
541-73-1	1,3-Dichlorobenzene	ND	7.1	4.4	ND	1.2	0.73	
106-46-7	1,4-Dichlorobenzene	ND	7.1	4.0	ND	1.2	0.66	
135-98-8	sec-Butylbenzene	ND	36	4.1	ND	6.5	0.75	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	36	4.6	ND	6.5	0.84	
95-50-1	1,2-Dichlorobenzene	ND	7.1	4.7	ND	1.2	0.78	
96-12-8	1,2-Dibromo-3-chloropropane	ND	36	5.4	ND	3.7	0.56	
120-82-1	1,2,4-Trichlorobenzene	ND	7.1	5.4	ND	0.96	0.73	
91-20-3	Naphthalene	ND	14	5.3	ND	2.7	1.0	
87-68-3	Hexachlorobutadiene	ND	7.1	6.4	ND	0.67	0.60	
98-06-6	tert-Butylbenzene	ND	14	3.6	ND	2.6	0.65	
104-51-8	n-Butylbenzene	ND	14	3.6	ND	2.6	0.65	

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

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

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

**CAS Project ID:** P0801548  
**CAS Sample ID:** P0801548-019

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00660

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.1	0.11	0.39	0.22	0.022	
74-87-3	Chloromethane	ND	0.22	0.11	ND	0.11	0.053	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.11	ND	0.16	0.016	
75-01-4	Vinyl Chloride	ND	0.22	0.11	ND	0.085	0.042	
74-83-9	Bromomethane	ND	0.22	0.11	ND	0.056	0.028	
75-00-3	Chloroethane	0.14	0.22	0.11	0.053	0.082	0.041	J
64-17-5	Ethanol	4.9	11	0.11	2.6	5.8	0.058	J
67-64-1	Acetone	12	11	0.16	5.0	4.6	0.067	B
75-69-4	Trichlorofluoromethane	1.1	0.22	0.11	0.19	0.039	0.019	
107-13-1	Acrylonitrile	ND	1.1	0.15	ND	0.50	0.070	
75-35-4	1,1-Dichloroethene	0.46	0.22	0.11	0.12	0.055	0.027	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.41	1.1	0.16	0.14	0.36	0.053	J
75-09-2	Methylene Chloride	0.51	1.1	0.11	0.15	0.31	0.031	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.11	ND	0.069	0.035	
76-13-1	Trichlorotrifluoroethane	0.48	0.22	0.12	0.062	0.028	0.016	
75-15-0	Carbon Disulfide	2.4	1.1	0.26	0.76	0.35	0.084	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.11	ND	0.055	0.027	
75-34-3	1,1-Dichloroethane	0.15	0.22	0.11	0.038	0.054	0.027	J
1634-04-4	Methyl tert-Butyl Ether	0.13	0.22	0.11	0.037	0.060	0.030	J
108-05-4	Vinyl Acetate	2.6	11	0.35	0.75	3.1	0.099	J, M
78-93-3	2-Butanone (MEK)	4.7	1.1	0.11	1.6	0.37	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.11	ND	0.055	0.027	
108-20-3	Diisopropyl Ether	ND	1.1	0.13	ND	0.26	0.031	
67-66-3	Chloroform	230	0.22	0.13	47	0.044	0.026	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:     CA          Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-019

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00660

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.1	0.11	ND	0.26	0.026	
107-06-2	1,2-Dichloroethane	ND	0.22	0.11	ND	0.054	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.11	ND	0.040	0.020	
71-43-2	<b>Benzene</b>	<b>3.5</b>	0.22	0.11	<b>1.1</b>	0.068	0.034	
56-23-5	<b>Carbon Tetrachloride</b>	<b>3.4</b>	0.22	0.11	<b>0.54</b>	0.035	0.017	
994-05-8	tert-Amyl Methyl Ether	ND	1.1	0.11	ND	0.26	0.026	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.36</b>	0.22	0.11	<b>0.078</b>	0.047	0.023	
75-27-4	<b>Bromodichloromethane</b>	<b>0.61</b>	0.22	0.11	<b>0.092</b>	0.032	0.016	
79-01-6	<b>Trichloroethene</b>	<b>1.7</b>	0.22	0.11	<b>0.31</b>	0.040	0.020	
123-91-1	<b>1,4-Dioxane</b>	<b>0.21</b>	1.1	0.13	<b>0.057</b>	0.30	0.037	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.1	0.16	ND	0.27	0.040	
142-82-5	<b>n-Heptane</b>	<b>0.30</b>	1.1	0.14	<b>0.073</b>	0.26	0.034	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.11	ND	0.24	0.025	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.64</b>	1.1	0.12	<b>0.16</b>	0.26	0.030	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	ND	0.24	0.030	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.23</b>	0.22	0.11	<b>0.041</b>	0.040	0.020	
108-88-3	<b>Toluene</b>	<b>16</b>	1.1	0.11	<b>4.2</b>	0.29	0.029	
591-78-6	<b>2-Hexanone</b>	<b>0.62</b>	1.1	0.16	<b>0.15</b>	0.26	0.040	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.22	0.15	ND	0.025	0.017	
106-93-4	1,2-Dibromoethane	ND	0.22	0.12	ND	0.028	0.015	
111-65-9	<b>n-Octane</b>	<b>0.68</b>	1.1	0.11	<b>0.15</b>	0.23	0.023	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>16</b>	0.22	0.11	<b>2.3</b>	0.032	0.016	
108-90-7	<b>Chlorobenzene</b>	<b>0.26</b>	0.22	0.11	<b>0.056</b>	0.047	0.024	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-019

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00660

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.7	1.1	0.13	0.62	0.25	0.031	
179601-23-1	m,p-Xylenes	13	1.1	0.28	2.9	0.25	0.065	
75-25-2	Bromoform	ND	1.1	0.16	ND	0.10	0.016	
100-42-5	Styrene	0.21	1.1	0.16	0.049	0.25	0.039	J
95-47-6	o-Xylene	4.2	1.1	0.14	0.96	0.25	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.14	ND	0.032	0.020	
98-82-8	Cumene	0.15	1.1	0.12	0.031	0.22	0.025	J
103-65-1	n-Propylbenzene	0.52	1.1	0.11	0.11	0.22	0.023	J
622-96-8	4-Ethyltoluene	0.77	1.1	0.12	0.16	0.22	0.025	J
108-67-8	1,3,5-Trimethylbenzene	1.1	1.1	0.13	0.22	0.22	0.026	J
98-83-9	alpha-Methylstyrene	ND	1.1	0.16	ND	0.22	0.033	
95-63-6	1,2,4-Trimethylbenzene	2.6	1.1	0.15	0.52	0.22	0.030	
100-44-7	Benzyl Chloride	ND	0.22	0.19	ND	0.042	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.13	ND	0.036	0.022	
106-46-7	1,4-Dichlorobenzene	4.7	0.22	0.12	0.78	0.036	0.020	
135-98-8	sec-Butylbenzene	ND	1.1	0.13	ND	0.20	0.023	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.29	1.1	0.14	0.053	0.20	0.026	J
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.14	ND	0.036	0.024	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.16	ND	0.11	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.16	ND	0.029	0.022	
91-20-3	Naphthalene	0.87	0.43	0.16	0.17	0.083	0.031	
87-68-3	Hexachlorobutadiene	0.85	0.22	0.20	0.080	0.020	0.018	
98-06-6	tert-Butylbenzene	ND	0.43	0.11	ND	0.079	0.020	
104-51-8	n-Butylbenzene	0.38	0.43	0.11	0.070	0.079	0.020	J

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-MB

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	<b>Acetone</b>	<b>0.16</b>	5.0	0.073	<b>0.068</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-MB

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By: GA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-MB

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

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

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	<b>Ethanol</b>	<b>0.093</b>	5.0	0.050	<b>0.049</b>	2.7	0.027	<b>J</b>
67-64-1	<b>Acetone</b>	<b>0.66</b>	5.0	0.073	<b>0.28</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	<b>Vinyl Acetate</b>	<b>0.22</b>	5.0	0.16	<b>0.062</b>	1.4	0.045	<b>J</b>
78-93-3	<b>2-Butanone (MEK)</b>	<b>0.12</b>	0.50	0.050	<b>0.039</b>	0.17	0.017	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/16/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By: \_\_\_\_\_ Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	<b>Naphthalene</b>	<b>0.12</b>	0.20	0.074	<b>0.023</b>	0.038	0.014	<b>J</b>
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	<b>Acetone</b>	<b>0.16</b>	5.0	0.073	<b>0.065</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: LA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

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**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

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

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

Verified By: GA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister(s)  
**Test Notes:**

**Date(s) Collected:** 5/21 - 5/22/08  
**Date(s) Received:** 5/23/08  
**Date(s) Analyzed:** 5/30 - 6/3/08

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	P080530-MB	95	70-130	98	70-130	101	70-130	
Method Blank	P080602-MB	92	70-130	98	70-130	103	70-130	
Method Blank	P080603-MB	92	70-130	98	70-130	97	70-130	
Lab Control Sample	P080530-LCS	93	70-130	99	70-130	102	70-130	
Lab Control Sample	P080602-LCS	91	70-130	100	70-130	99	70-130	
Lab Control Sample	P080603-LCS	91	70-130	97	70-130	98	70-130	
SG91B-05	P0801548-001	94	70-130	100	70-130	102	70-130	
SG93B-05	P0801548-002	92	70-130	100	70-130	101	70-130	
SG46B-05	P0801548-003	94	70-130	97	70-130	103	70-130	
SG68B-05	P0801548-004	92	70-130	100	70-130	105	70-130	
SG68B-05	P0801548-004DUP	90	70-130	99	70-130	102	70-130	
SG67B-05	P0801548-005	92	70-130	100	70-130	103	70-130	
SG51B-05	P0801548-006	83	70-130	101	70-130	103	70-130	
SG51B-05D	P0801548-007	87	70-130	102	70-130	103	70-130	
SG42B-05	P0801548-008	88	70-130	100	70-130	104	70-130	
SG69B-05	P0801548-009	94	70-130	100	70-130	100	70-130	
SG48B-05	P0801548-010	88	70-130	99	70-130	102	70-130	
SG47B-05	P0801548-011	89	70-130	100	70-130	105	70-130	
SG53B-05	P0801548-012	90	70-130	97	70-130	97	70-130	
SG53B-05D	P0801548-013	88	70-130	98	70-130	98	70-130	
SG49B-05	P0801548-014	90	70-130	95	70-130	97	70-130	
SG66B-05	P0801548-015	88	70-130	97	70-130	98	70-130	
SG50B-05	P0801548-016	89	70-130	95	70-130	97	70-130	
SG45B-05	P0801548-017	92	70-130	96	70-130	99	70-130	
SG54B-05	P0801548-018	92	70-130	99	70-130	94	70-130	
SG87B-05	P0801548-019	90	70-130	96	70-130	99	70-130	

Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.2	79	69-117	
74-87-3	Chloromethane	24.5	20.5	84	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.8	84	58-133	
75-01-4	Vinyl Chloride	24.8	20.9	84	61-127	
74-83-9	Bromomethane	25.0	22.5	90	67-124	
75-00-3	Chloroethane	25.0	22.1	88	69-123	
64-17-5	Ethanol	23.8	20.0	84	56-137	
67-64-1	Acetone	26.8	21.6	81	63-116	
75-69-4	Trichlorofluoromethane	26.3	21.9	83	71-120	
107-13-1	Acrylonitrile	25.5	23.3	91	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.1	87	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.1	93	35-141	
75-09-2	Methylene Chloride	27.8	22.9	82	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.5	106	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.0	86	63-129	
75-15-0	Carbon Disulfide	25.0	20.7	83	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.6	89	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.4	87	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.4	87	72-119	
108-05-4	Vinyl Acetate	25.3	29.1	115	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.4	87	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.1	86	74-117	
108-20-3	Diisopropyl Ether	26.3	22.8	87	70-131	
67-66-3	Chloroform	29.8	26.1	88	72-113	

Verified By: CA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.1	89	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.0	84	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.2	87	78-114	
71-43-2	Benzene	27.0	23.4	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	24.0	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.7	91	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.2	88	78-117	
75-27-4	Bromodichloromethane	27.8	25.4	91	77-120	
79-01-6	Trichloroethene	27.3	22.3	82	80-116	
123-91-1	1,4-Dioxane	27.5	24.6	89	79-122	
80-62-6	Methyl Methacrylate	25.8	25.0	97	79-128	
142-82-5	n-Heptane	26.8	23.9	89	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.5	94	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.6	86	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.6	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.7	90	80-117	
108-88-3	Toluene	26.5	23.4	88	76-116	
591-78-6	2-Hexanone	26.3	23.1	88	69-131	
124-48-1	Dibromochloromethane	27.0	25.9	96	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.4	93	79-122	
111-65-9	n-Octane	26.0	23.6	91	78-122	
127-18-4	Tetrachloroethene	26.0	23.4	90	77-118	
108-90-7	Chlorobenzene	26.5	23.7	89	78-117	

Verified By: CA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
100-41-4	Ethylbenzene	26.3	24.0	91	79-116	
179601-23-1	m,p-Xylenes	62.5	56.7	91	80-117	
75-25-2	Bromoform	31.3	32.7	104	77-128	
100-42-5	Styrene	26.3	24.7	94	80-124	
95-47-6	o-Xylene	29.8	26.7	90	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.3	98	79-120	
98-82-8	Cumene	27.0	24.6	91	81-119	
103-65-1	n-Propylbenzene	26.3	24.5	93	82-120	
622-96-8	4-Ethyltoluene	26.5	24.6	93	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.6	91	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.5	96	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.4	94	80-122	
100-44-7	Benzyl Chloride	25.8	29.0	112	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	23.9	94	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.5	93	81-119	
135-98-8	sec-Butylbenzene	26.8	24.8	93	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.2	98	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	23.9	93	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.3	106	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	25.3	97	75-138	
91-20-3	Naphthalene	26.3	25.4	97	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.6	94	72-128	
98-06-6	tert-Butylbenzene	26.3	24.7	94	70-130	
104-51-8	n-Butylbenzene	26.8	25.0	93	70-130	

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/02/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.9	82	69-117	
74-87-3	Chloromethane	24.5	20.5	84	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.7	87	58-133	
75-01-4	Vinyl Chloride	24.8	21.5	87	61-127	
74-83-9	Bromomethane	25.0	23.6	94	67-124	
75-00-3	Chloroethane	25.0	23.2	93	69-123	
64-17-5	Ethanol	23.8	20.3	85	56-137	
67-64-1	Acetone	26.8	22.1	82	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.5	86	71-120	
107-13-1	Acrylonitrile	25.5	23.7	93	74-129	
75-35-4	1,1-Dichloroethene	27.8	25.1	90	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.8	96	35-141	
75-09-2	Methylene Chloride	27.8	23.4	84	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.9	108	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.8	89	63-129	
75-15-0	Carbon Disulfide	25.0	21.6	86	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	24.1	91	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.8	89	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.9	89	72-119	
108-05-4	Vinyl Acetate	25.3	30.2	119	32-163	
78-93-3	2-Butanone (MEK)	27.0	24.3	90	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.6	87	74-117	
108-20-3	Diisopropyl Ether	26.3	23.2	88	70-131	
67-66-3	Chloroform	29.8	26.8	90	72-113	

Verified By: CA Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/02/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.7	91	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.3	85	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.2	87	78-114	
71-43-2	Benzene	27.0	23.4	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.9	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.9	92	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.4	88	78-117	
75-27-4	Bromodichloromethane	27.8	25.6	92	77-120	
79-01-6	Trichloroethene	27.3	22.9	84	80-116	
123-91-1	1,4-Dioxane	27.5	25.2	92	79-122	
80-62-6	Methyl Methacrylate	25.8	25.2	98	79-128	
142-82-5	n-Heptane	26.8	24.0	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.8	95	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.1	84	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.7	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.6	90	80-117	
108-88-3	Toluene	26.5	24.2	91	76-116	
591-78-6	2-Hexanone	26.3	23.1	88	69-131	
124-48-1	Dibromochloromethane	27.0	26.6	99	80-128	
106-93-4	1,2-Dibromoethane	26.3	25.1	95	79-122	
111-65-9	n-Octane	26.0	24.3	93	78-122	
127-18-4	Tetrachloroethene	26.0	24.6	95	77-118	
108-90-7	Chlorobenzene	26.5	24.4	92	78-117	

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/02/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	24.3	92	79-116	
179601-23-1	m,p-Xylenes	62.5	57.4	92	80-117	
75-25-2	Bromoform	31.3	33.5	107	77-128	
100-42-5	Styrene	26.3	25.1	95	80-124	
95-47-6	o-Xylene	29.8	27.2	91	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.9	100	79-120	
98-82-8	Cumene	27.0	25.1	93	81-119	
103-65-1	n-Propylbenzene	26.3	24.7	94	82-120	
622-96-8	4-Ethyltoluene	26.5	24.9	94	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.9	92	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.7	97	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.5	94	80-122	
100-44-7	Benzyl Chloride	25.8	29.8	116	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	24.2	95	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.9	95	81-119	
135-98-8	sec-Butylbenzene	26.8	24.9	93	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.4	99	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	24.3	94	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	28.4	110	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	26.2	101	75-138	
91-20-3	Naphthalene	26.3	26.0	99	76-143	
87-68-3	Hexachlorobutadiene	26.3	25.6	97	72-128	
98-06-6	tert-Butylbenzene	26.3	24.9	95	70-130	
104-51-8	n-Butylbenzene	26.8	25.1	94	70-130	

Verified By: CA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/03/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.3	80	69-117	
74-87-3	Chloromethane	24.5	19.4	79	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.8	84	58-133	
75-01-4	Vinyl Chloride	24.8	20.9	84	61-127	
74-83-9	Bromomethane	25.0	22.8	91	67-124	
75-00-3	Chloroethane	25.0	22.4	90	69-123	
64-17-5	Ethanol	23.8	20.0	84	56-137	
67-64-1	Acetone	26.8	22.0	82	63-116	
75-69-4	Trichlorofluoromethane	26.3	21.9	83	71-120	
107-13-1	Acrylonitrile	25.5	23.4	92	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.6	88	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.0	93	35-141	
75-09-2	Methylene Chloride	27.8	23.0	83	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.7	107	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	23.9	86	63-129	
75-15-0	Carbon Disulfide	25.0	21.0	84	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.6	89	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.6	88	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.3	87	72-119	
108-05-4	Vinyl Acetate	25.3	29.2	115	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.6	87	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.0	85	74-117	
108-20-3	Diisopropyl Ether	26.3	22.7	86	70-131	
67-66-3	Chloroform	29.8	26.0	87	72-113	

Verified By:         *CR*         Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/03/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	23.0	88	74-123	
107-06-2	1,2-Dichloroethane	26.3	21.6	82	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	22.6	84	78-114	
71-43-2	Benzene	27.0	22.9	85	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.3	90	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.2	89	81-118	
78-87-5	1,2-Dichloropropane	26.5	22.9	86	78-117	
75-27-4	Bromodichloromethane	27.8	24.8	89	77-120	
79-01-6	Trichloroethene	27.3	22.1	81	80-116	
123-91-1	1,4-Dioxane	27.5	24.6	89	79-122	
80-62-6	Methyl Methacrylate	25.8	24.5	95	79-128	
142-82-5	n-Heptane	26.8	23.5	88	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.1	92	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.1	84	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	26.8	96	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.5	89	80-117	
108-88-3	Toluene	26.5	22.5	85	76-116	
591-78-6	2-Hexanone	26.3	21.8	83	69-131	
124-48-1	Dibromochloromethane	27.0	24.8	92	80-128	
106-93-4	1,2-Dibromoethane	26.3	23.6	90	79-122	
111-65-9	n-Octane	26.0	22.6	87	78-122	
127-18-4	Tetrachloroethene	26.0	22.6	87	77-118	
108-90-7	Chlorobenzene	26.5	22.8	86	78-117	

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/03/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
100-41-4	Ethylbenzene	26.3	22.8	87	79-116	
179601-23-1	m,p-Xylenes	62.5	53.4	85	80-117	
75-25-2	Bromoform	31.3	31.1	99	77-128	
100-42-5	Styrene	26.3	23.4	89	80-124	
95-47-6	o-Xylene	29.8	25.3	85	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	28.2	95	79-120	
98-82-8	Cumene	27.0	23.4	87	81-119	
103-65-1	n-Propylbenzene	26.3	23.1	88	82-120	
622-96-8	4-Ethyltoluene	26.5	23.3	88	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	22.4	86	80-120	
98-83-9	alpha-Methylstyrene	25.5	23.1	91	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	22.8	88	80-122	
100-44-7	Benzyl Chloride	25.8	27.4	106	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	22.6	89	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	23.3	89	81-119	
135-98-8	sec-Butylbenzene	26.8	23.4	87	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	26.5	92	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	22.6	88	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	26.3	102	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	24.4	94	75-138	
91-20-3	Naphthalene	26.3	24.4	93	76-143	
87-68-3	Hexachlorobutadiene	26.3	23.9	91	72-128	
98-06-6	tert-Butylbenzene	26.3	23.2	88	70-130	
104-51-8	n-Butylbenzene	26.8	23.5	88	70-130	

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004DUP

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
<b>Dichlorodifluoromethane (CFC 12)</b>	2.12	0.428	2.03	0.410	2.075	4	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
<b>1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)</b>	0.0909	0.0130	0.0832	0.0119	0.08705	9	25	J
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
<b>Ethanol</b>	3.21	1.70	3.10	1.65	3.155	3	25	J
<b>Acetone</b>	16.9	7.11	16.2	6.82	16.55	4	25	B
<b>Trichlorofluoromethane</b>	39.6	7.05	38.3	6.82	38.95	3	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	0.0770	0.0194	ND	ND	-	-	25	J
<b>2-Methyl-2-Propanol (tert-Butyl Alcohol)</b>	0.297	0.0981	0.237	0.0783	0.267	22	25	J
<b>Methylene Chloride</b>	0.116	0.0333	0.129	0.0373	0.1225	11	25	J
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
<b>Trichlorotrifluoroethane</b>	0.621	0.0810	0.621	0.0810	0.621	0	25	
<b>Carbon Disulfide</b>	4.87	1.56	4.76	1.53	4.815	2	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
<b>Vinyl Acetate</b>	5.26	1.49	5.08	1.44	5.17	3	25	J
<b>2-Butanone (MEK)</b>	5.71	1.94	5.30	1.80	5.505	7	25	
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
<b>Chloroform</b>	24.1	4.94	23.7	4.85	23.9	2	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: LA Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004DUP

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate Sample Result		Average $\mu\text{g}/\text{m}^3$	% RPD	RPD Limit	Data Qualifier
	$\mu\text{g}/\text{m}^3$	ppbV	$\mu\text{g}/\text{m}^3$	ppbV				
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
<b>1,1,1-Trichloroethane</b>	0.328	0.0601	0.325	0.0596	0.3265	<b>0.9</b>	25	
<b>Benzene</b>	5.06	1.59	5.08	1.59	5.07	<b>0.4</b>	25	
<b>Carbon Tetrachloride</b>	0.311	0.0495	0.310	0.0492	0.3105	<b>0.3</b>	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
<b>Trichloroethene</b>	10.9	2.02	11.0	2.05	10.95	<b>0.9</b>	25	
<b>1,4-Dioxane</b>	0.282	0.0782	0.266	0.0740	0.274	<b>6</b>	25	<b>J</b>
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
<b>n-Heptane</b>	0.525	0.128	0.514	0.126	0.5195	<b>2</b>	25	<b>J</b>
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
<b>4-Methyl-2-pentanone</b>	8.41	2.05	8.35	2.04	8.38	<b>0.7</b>	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
<b>Toluene</b>	8.60	2.28	8.41	2.23	8.505	<b>2</b>	25	
<b>2-Hexanone</b>	1.33	0.325	1.32	0.322	1.325	<b>0.8</b>	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
<b>n-Octane</b>	6.49	1.39	6.32	1.35	6.405	<b>3</b>	25	
<b>Tetrachloroethene</b>	152	22.4	148	21.8	150	<b>3</b>	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CU Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

**CAS Project ID:** P0801548  
**CAS Sample ID:** P0801548-004DUP

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Ethylbenzene	3.56	0.820	3.54	0.816	3.55	0.6	25	
m,p-Xylenes	17.3	3.99	17.2	3.96	17.25	0.6	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	0.243	0.0572	0.245	0.0575	0.244	0.8	25	J
o-Xylene	5.35	1.23	5.23	1.21	5.29	2	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	0.239	0.0486	0.233	0.0473	0.236	3	25	J
n-Propylbenzene	0.682	0.139	0.678	0.138	0.68	0.6	25	J
4-Ethyltoluene	1.01	0.206	0.979	0.199	0.9945	3	25	
1,3,5-Trimethylbenzene	1.23	0.250	1.20	0.243	1.215	2	25	
alpha-Methylstyrene	0.142	0.0293	0.160	0.0331	0.151	12	25	J
1,2,4-Trimethylbenzene	2.61	0.531	2.54	0.517	2.575	3	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	2.71	0.450	2.63	0.437	2.67	3	25	
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	6.75	1.23	6.63	1.21	6.69	2	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	0.967	0.185	0.958	0.183	0.9625	0.9	25	
Hexachlorobutadiene	0.374	0.0351	0.410	0.0384	0.392	9	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	0.379	0.0690	0.380	0.0693	0.3795	0.3	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:   *W*   Date:   5/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

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

Lab File ID: 05300803.D  
 Date Analyzed: 5/30/08  
 Time Analyzed: 08:12

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	309690	12.58	1316751	15.51	608553	21.35
<b>Upper Limit</b>	433566	12.91	1843451	15.84	851974	21.68
<b>Lower Limit</b>	185814	12.25	790051	15.18	365132	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	298567	12.57	1267924
02	Lab Control Sample	305755	12.59	1292603
03	SG91B-05 (Dilution)	317861	12.57	1360977
04	SG69B-05 (Dilution)	305619	12.57	1299488
05	SG69B-05	290674	12.58	1228713
06	SG46B-05	287830	12.58	1253641
07	SG68B-05	316100	12.58	1368107
08	SG68B-05 (Lab Duplicate)	340611	12.58	1434647
09	SG91B-05	319590	12.58	1379444
10	SG93B-05	326975	12.58	1382503
11	SG93B-05 (Dilution)	321471	12.57	1364925
12	SG46B-05 (Dilution)	313254	12.58	1330210
13	SG67B-05	319747	12.58	1364863
14	SG67B-05 (Dilution)	374640	12.58	1577147
15	SG51B-05	376350	12.60	1497616
16	SG51B-05D	364581	12.59	1495095
17	SG42B-05	347882	12.58	1464807
18	SG48B-05	354460	12.58	1487537
19	SG47B-05	349563	12.58	1475986
20	SG47B-05 (Dilution)	369040	12.58	1560529

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area  
 AREA LOWER LIMIT = 60% of internal standard area  
 RT UPPER LIMIT = 0.33 minutes of internal standard RT  
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

Verified By:         C4         Date:         6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister(s)  
 Test Notes:

Lab File ID: 06020801.D  
 Date Analyzed: 6/2/08  
 Time Analyzed: 08:49

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	349762	12.58	1484429	15.51	687424	21.35
<b>Upper Limit</b>	489667	12.91	2078201	15.84	962394	21.68
<b>Lower Limit</b>	209857	12.25	890657	15.18	412454	21.02

**Client Sample ID**

Client Sample ID	IS1 (BCM) AREA #	IS1 (BCM) RT #	IS2 (DFB) AREA #	IS2 (DFB) RT #	IS3 (CBZ) AREA #	IS3 (CBZ) RT #
01 Method Blank	341020	12.58	1428446	15.51	664916	21.35
02 Lab Control Sample	341818	12.59	1474398	15.52	669226	21.35
03 SG53B-05 (Dilution)	355279	12.57	1548339	15.51	709750	21.35
04 SG54B-05	361649	12.58	1563505	15.51	721320	21.35
05 SG51B-05D (Dilution)	364982	12.58	1569312	15.51	722078	21.35
06 SG54B-05 (Dilution)	348430	12.57	1504472	15.51	703495	21.35
07 SG53B-05	344464	12.58	1500022	15.51	705477	21.35
08 SG53B-05D	355603	12.58	1517332	15.51	719424	21.35
09 SG66B-05	362866	12.58	1563667	15.51	737826	21.35
10 SG53B-05D (Dilution)	372723	12.58	1610601	15.51	748261	21.35
11 SG66B-05 (Dilution)	353358	12.58	1537040	15.51	724867	21.35
12 SG51B-05 (Dilution)	353340	12.58	1529179	15.51	717129	21.35
13						
14						
15						
16						
17						
18						
19						
20						

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area  
 AREA LOWER LIMIT = 60% of internal standard area  
 RT UPPER LIMIT = 0.33 minutes of internal standard RT  
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister(s)  
 Test Notes:

Lab File ID: 06030801.D  
 Date Analyzed: 6/3/08  
 Time Analyzed: 08:26

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	327394	12.58	1420024	15.51	673142	21.35
<b>Upper Limit</b>	458352	12.91	1988034	15.84	942399	21.68
<b>Lower Limit</b>	196436	12.25	852014	15.18	403885	21.02

Client Sample ID		IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
		AREA #	RT #	AREA #
01	Method Blank	309051	12.58	1343195
02	Lab Control Sample	314715	12.59	1359071
03	SG49B-05	322556	12.57	1372542
04	SG50B-05	339626	12.58	1435581
05	SG45B-05	330687	12.58	1449298
06	SG87B-05	331666	12.58	1461583
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area  
 AREA LOWER LIMIT = 60% of internal standard area  
 RT UPPER LIMIT = 0.33 minutes of internal standard RT  
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.

Verified By: LA Date: 6/10/08

## RESULTS OF HELIUM ANALYSIS

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Helium**

**Test Code:** EPA 3C Modified  
**Instrument ID:** HP5890 II/GC8/TCD  
**Analyst:** Zheng Wang/Wade Henton/Chris Cornett  
**Sampling Media:** 6.0 L Summa Canister(s)  
**Test Notes:**

**Date(s) Collected:** 5/21 - 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/27/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG91B-05	P0801548-001	1.00	1.60	ND	40	
SG93B-05	P0801548-002	1.00	1.64	ND	41	
SG46B-05	P0801548-003	1.00	1.58	ND	40	
SG68B-05	P0801548-004	1.00	1.54	ND	39	
SG67B-05	P0801548-005	1.00	1.67	ND	42	
SG51B-05	P0801548-006	1.00	1.53	ND	38	
SG51B-05D	P0801548-007	1.00	1.55	ND	39	
<b>SG42B-05</b>	P0801548-008	1.00	1.94	<b>14,000</b>	49	
SG69B-05	P0801548-009	1.00	1.63	ND	41	
SG48B-05	P0801548-010	1.00	1.58	ND	40	
SG47B-05	P0801548-011	1.00	1.66	ND	42	
<b>SG53B-05</b>	P0801548-012	1.00	1.65	<b>5,000</b>	41	
SG53B-05D	P0801548-013	1.00	1.39	ND	35	
SG49B-05	P0801548-014	1.00	1.63	ND	41	
SG66B-05	P0801548-015	1.00	1.53	ND	38	
SG50B-05	P0801548-016	1.00	1.78	ND	45	
SG45B-05	P0801548-017	1.00	1.49	ND	37	
SG54B-05	P0801548-018	1.00	1.78	ND	45	
SG87B-05	P0801548-019	1.00	2.17	ND	54	
Method Blank	P080527-MB	1.00	1.00	ND	25	
Method Blank	P080527-MB	1.00	1.00	ND	25	

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

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

## RESULTS OF VOLATILE ORGANIC ANALYSIS

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00912

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.41	0.32	0.032	
74-87-3	Chloromethane	ND	0.32	0.16	ND	0.16	0.078	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.32	0.16	ND	0.13	0.063	
74-83-9	Bromomethane	ND	0.32	0.16	ND	0.082	0.041	
75-00-3	Chloroethane	ND	0.32	0.16	ND	0.12	0.061	
64-17-5	Ethanol	3.7	16	0.16	2.0	8.5	0.085	J
67-64-1	Acetone	9.9	16	0.23	4.2	6.7	0.098	J, B
75-69-4	Trichlorofluoromethane	1.2	0.32	0.16	0.21	0.057	0.028	
107-13-1	Acrylonitrile	ND	1.6	0.22	ND	0.74	0.10	
75-35-4	1,1-Dichloroethene	0.17	0.32	0.16	0.043	0.081	0.040	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.63	1.6	0.24	0.21	0.53	0.078	J
75-09-2	Methylene Chloride	0.46	1.6	0.16	0.13	0.46	0.046	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.32	0.16	ND	0.10	0.051	
76-13-1	Trichlorotrifluoroethane	0.49	0.32	0.18	0.064	0.042	0.023	
75-15-0	Carbon Disulfide	1.0	1.6	0.38	0.33	0.51	0.12	J
156-60-5	trans-1,2-Dichloroethene	ND	0.32	0.16	ND	0.081	0.040	
75-34-3	1,1-Dichloroethane	ND	0.32	0.16	ND	0.079	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.32	0.16	ND	0.089	0.044	
108-05-4	Vinyl Acetate	2.2	16	0.51	0.62	4.5	0.15	J
78-93-3	2-Butanone (MEK)	4.9	1.6	0.16	1.7	0.54	0.054	
156-59-2	cis-1,2-Dichloroethene	ND	0.32	0.16	ND	0.081	0.040	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.38	0.045	
67-66-3	Chloroform	490	0.32	0.19	100	0.066	0.039	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00912

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.16	ND	0.38	0.039	
107-06-2	1,2-Dichloroethane	ND	0.32	0.16	ND	0.079	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.32	0.16	ND	0.059	0.029	
71-43-2	<b>Benzene</b>	<b>3.9</b>	0.32	0.16	<b>1.2</b>	0.10	0.050	
56-23-5	<b>Carbon Tetrachloride</b>	<b>33</b>	0.32	0.16	<b>5.3</b>	0.051	0.025	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.38	0.038	
78-87-5	1,2-Dichloropropane	ND	0.32	0.16	ND	0.069	0.035	
75-27-4	<b>Bromodichloromethane</b>	<b>0.22</b>	0.32	0.16	<b>0.033</b>	0.048	0.024	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>8.0</b>	0.32	0.16	<b>1.5</b>	0.060	0.030	
123-91-1	1,4-Dioxane	ND	1.6	0.20	ND	0.44	0.054	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.39	0.059	
142-82-5	<b>n-Heptane</b>	<b>0.48</b>	1.6	0.20	<b>0.12</b>	0.39	0.050	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.35	0.037	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.4</b>	1.6	0.18	<b>0.58</b>	0.39	0.044	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	ND	0.35	0.044	
79-00-5	1,1,2-Trichloroethane	ND	0.32	0.16	ND	0.059	0.029	
108-88-3	<b>Toluene</b>	<b>24</b>	1.6	0.16	<b>6.4</b>	0.42	0.042	
591-78-6	<b>2-Hexanone</b>	<b>0.73</b>	1.6	0.24	<b>0.18</b>	0.39	0.059	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.32	0.22	ND	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.32	0.17	ND	0.042	0.022	
111-65-9	<b>n-Octane</b>	<b>11</b>	1.6	0.16	<b>2.4</b>	0.34	0.034	
127-18-4	<b>Tetrachloroethene</b>	<b>70</b>	0.32	0.16	<b>10</b>	0.047	0.024	
108-90-7	Chlorobenzene	ND	0.32	0.16	ND	0.070	0.035	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG91B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-001

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00912

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -3.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.60

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	8.9	1.6	0.20	2.0	0.37	0.046	
179601-23-1	m,p-Xylenes	47	1.6	0.42	11	0.37	0.096	
75-25-2	Bromoform	ND	1.6	0.24	ND	0.15	0.024	
100-42-5	Styrene	0.25	1.6	0.24	0.058	0.38	0.057	J
95-47-6	o-Xylene	16	1.6	0.20	3.8	0.37	0.046	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.32	0.20	ND	0.047	0.030	
98-82-8	Cumene	0.55	1.6	0.18	0.11	0.33	0.036	J
103-65-1	n-Propylbenzene	3.0	1.6	0.17	0.61	0.33	0.034	
622-96-8	4-Ethyltoluene	5.1	1.6	0.18	1.0	0.33	0.037	
108-67-8	1,3,5-Trimethylbenzene	4.5	1.6	0.19	0.91	0.33	0.039	
98-83-9	alpha-Methylstyrene	ND	1.6	0.23	ND	0.33	0.048	
95-63-6	1,2,4-Trimethylbenzene	15	1.6	0.22	3.1	0.33	0.045	
100-44-7	Benzyl Chloride	ND	0.32	0.28	ND	0.062	0.053	
541-73-1	1,3-Dichlorobenzene	0.22	0.32	0.20	0.037	0.053	0.033	J
106-46-7	1,4-Dichlorobenzene	7.2	0.32	0.18	1.2	0.053	0.030	
135-98-8	sec-Butylbenzene	0.23	1.6	0.19	0.042	0.29	0.034	J
99-87-6	4-Isopropyltoluene (p-Cymene)	0.92	1.6	0.21	0.17	0.29	0.038	J
95-50-1	1,2-Dichlorobenzene	ND	0.32	0.21	ND	0.053	0.035	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.24	ND	0.17	0.025	
120-82-1	1,2,4-Trichlorobenzene	ND	0.32	0.24	ND	0.043	0.033	
91-20-3	Naphthalene	1.4	0.64	0.24	0.26	0.12	0.045	
87-68-3	Hexachlorobutadiene	55	0.32	0.29	5.1	0.030	0.027	
98-06-6	tert-Butylbenzene	ND	0.64	0.16	ND	0.12	0.029	
104-51-8	n-Butylbenzene	1.0	0.64	0.16	0.19	0.12	0.029	

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

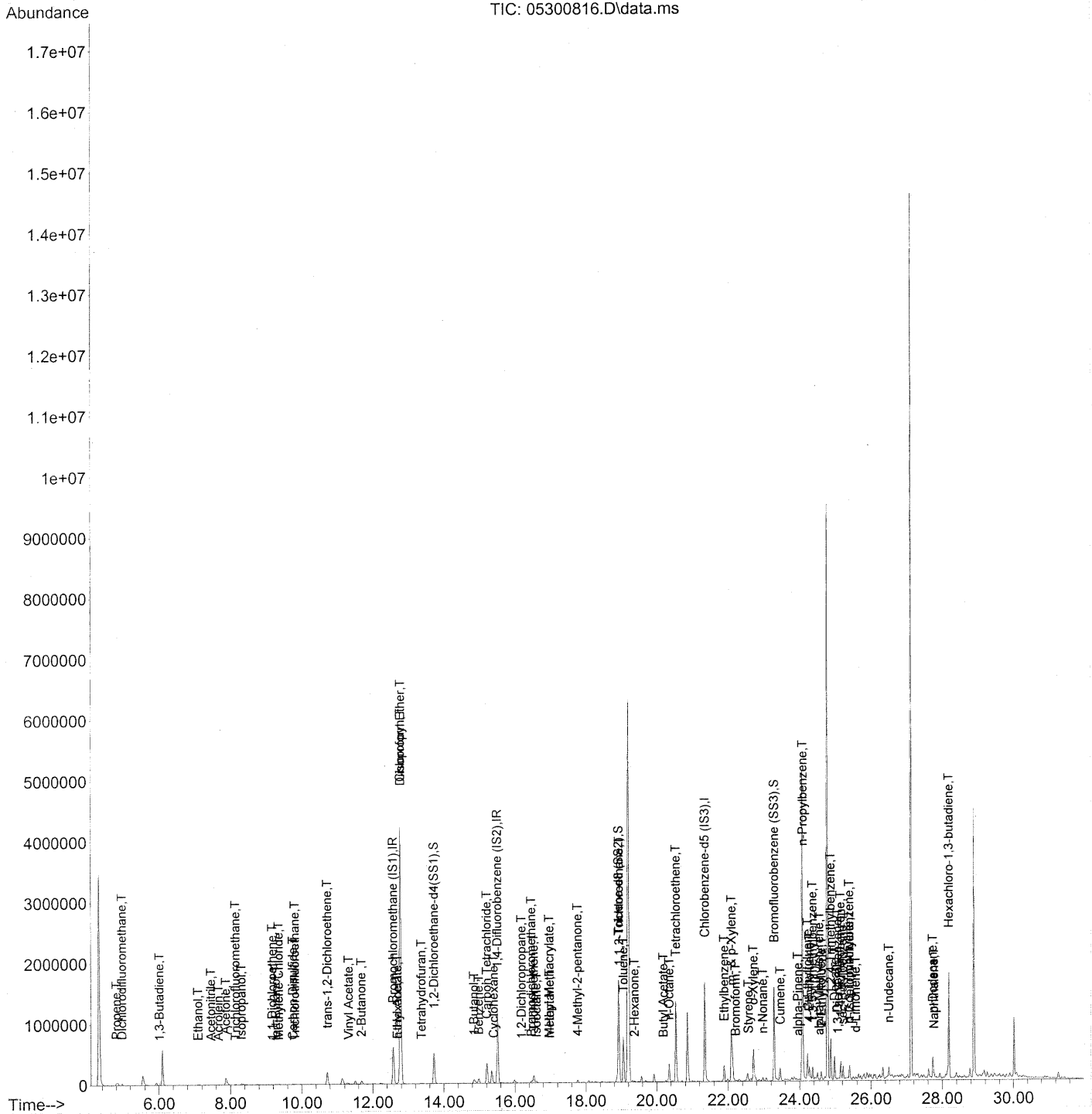
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 19:38:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 19:38:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	319590	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1379444	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	638600	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	523121	23.623	ng	0.00
Spiked Amount				25.000		
				Recovery =	94.48%	✓
57) Toluene-d8 (SS2)	18.93	98	1432875	24.984	ng	0.00
Spiked Amount				25.000		
				Recovery =	99.92%	✓
73) Bromofluorobenzene (SS3)	23.29	174	592179	25.391	ng	0.00
Spiked Amount				25.000		
				Recovery =	101.56%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	22918	0.908	ng	# 63
3) Dichlorodifluoromethane	4.96	85	29644	0.637	ng	99
4) Chloromethane	5.30	50	997	N.D.	✓	
5) Freon 114	5.53	135	644	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	2667	0.119	ng	# 57
8) Bromomethane	6.48	94	206	N.D.	✓	
9) Chloroethane	6.81	64	336	N.D.	✓	
10) Ethanol	7.10	45	19367m	1.153	ng	
11) Acetonitrile	7.46	41	13300	0.274	ng	# 67
12) Acrolein	7.67	56	4049	0.337	ng	92
13) Acetone	7.87	58	53218m	3.093	ng	
14) Trichlorofluoromethane	8.14	101	14888	0.373	ng	100
15) Isopropanol	8.31	45	37290	0.680	ng	90
16) Acrylonitrile	8.66	53	379	N.D.	✓	
17) 1,1-Dichloroethene	9.17	96	926	0.053	ng	# 82
18) tert-Butanol	9.27	59	9200	0.197	ng	91
19) Methylene Chloride	9.36	84	2770	0.144	ng	92
20) Allyl Chloride	9.56	41	76	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	2799	0.154	ng	# 82
22) Carbon Disulfide	9.75	76	23651	0.324	ng	98
23) trans-1,2-Dichloroethene	10.73	61	3220	0.113	ng	NR 24
24) 1,1-Dichloroethane	11.10	63	1147	N.D.	✓	
25) Methyl tert-Butyl Ether	11.15	73	1759	N.D.	✓	
26) Vinyl Acetate	11.31	86	2173	0.683	ng	# 1
27) 2-Butanone	11.68	72	19150	1.525	ng	97
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	492472	32.007	ng	NR # 1
30) Ethyl Acetate	12.70	61	1338	0.197	ng	89
31) n-Hexane	12.69	57	4842	0.142	ng	98

6/08/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 19:38:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	4677305	<del>160.497</del> ng	<i>Su det</i>	100
34) Tetrahydrofuran	13.37	72	3055	0.254 ng	#	82
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	361	N.D. ✓		
38) 1,1,1-Trichloroethane	14.28	97	54	N.D. ✓		
39) Isopropyl Acetate	14.96	61	189	N.D.		
40) 1-Butanol	14.84	56	64888	3.422 ng		90
41) Benzene	14.98	78	87883	1.217 ng		97
42) Carbon Tetrachloride	15.21	117	289346	10.402 ng		99
43) Cyclohexane	15.40	84	3465	0.123 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	822	<del>0.043</del> ng		94
46) Bromodichloromethane	16.46	83	1679	0.069 ng	#	70
47) Trichloroethene	16.53	130	55674	2.513 ng		99
48) 1,4-Dioxane	16.53	88	53	N.D. ✓		
49) Isooctane	16.61	57	14197	0.171 ng	#	1
50) Methyl Methacrylate	16.97	100	940	<del>0.130</del> ng	<i>NR</i>	1
51) n-Heptane	16.98	71	2873	0.150 ng	#	78
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	14188	0.740 ng		83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	125643	<del>7.039</del> ng	<i>NR</i>	8
58) Toluene	19.06	91	584207	7.494 ng		98
59) 2-Hexanone	19.37	43	12309	0.229 ng	#	71
60) Dibromochloromethane	19.61	129	355	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	2301	0.042 ng	#	15
63) n-Octane	20.35	57	61037	3.540 ng		90
64) Tetrachloroethene	20.54	166	505122	21.897 ng		99
65) Chlorobenzene	21.40	112	1715	N.D. ✓		
66) Ethylbenzene	21.89	91	247603	2.770 ng		94
67) m- & p-Xylene	22.10	91	882685	14.762 ng		92
68) Bromoform	22.21	173	642	<del>0.041</del> ng	#	59
69) Styrene	22.57	104	4129	0.077 ng		97
70) o-Xylene	22.71	91	330899	5.127 ng		94
71) n-Nonane	22.98	43	28004	0.611 ng		86
72) 1,1,2,2-Tetrachloroethane	22.69	83	239	N.D. ✓		
74) Cumene	23.46	105	14729	0.171 ng		98
75) alpha-Pinene	23.96	93	3048	0.069 ng		72
76) n-Propylbenzene	24.10	91	102583	0.938 ng	#	1
77) 3-Ethyltoluene	24.23	105	296106	3.237 ng		99
78) 4-Ethyltoluene	24.28	105	137186	1.608 ng		100
79) 1,3,5-Trimethylbenzene	24.37	105	108268	1.405 ng		97

*For 06/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 19:38:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

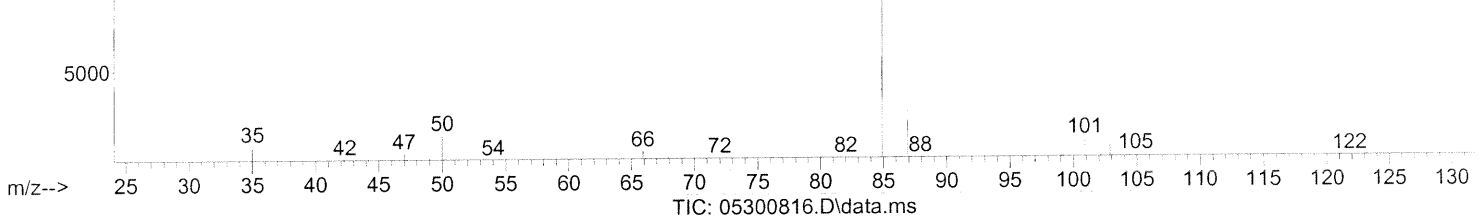
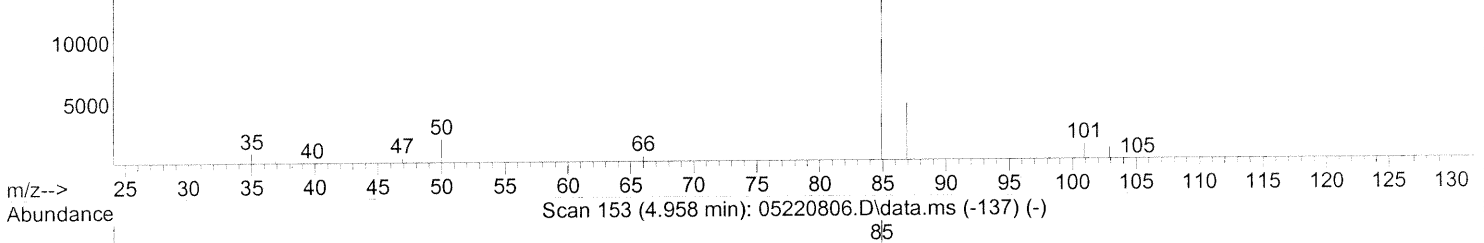
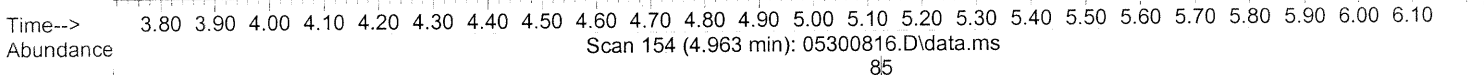
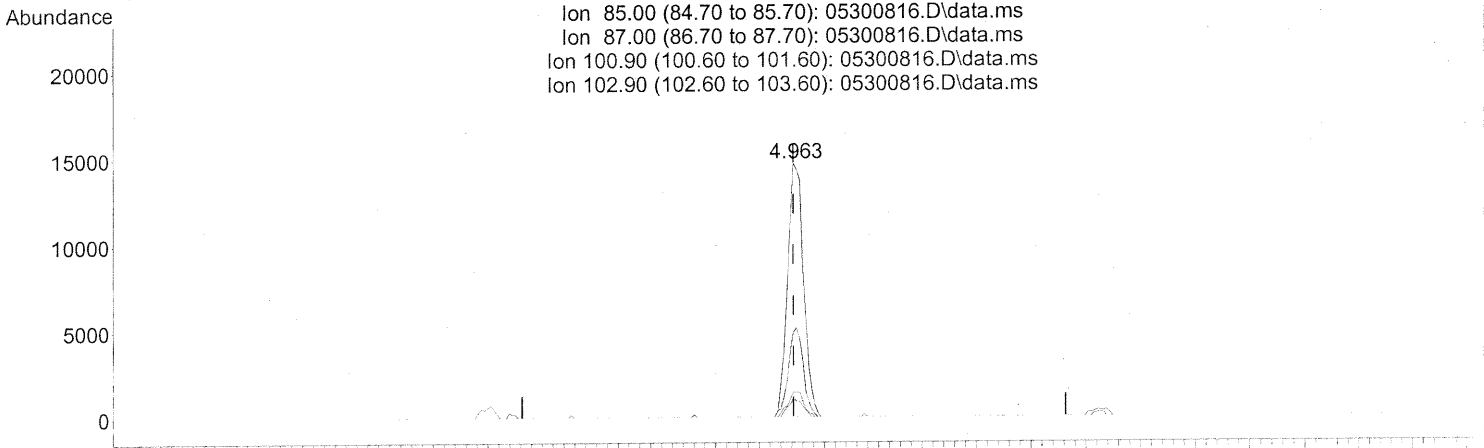
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	2086	<del>0.050 ng</del>	95
81) 2-Ethyltoluene	24.61	105	99242	1.070 ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	377300	4.809 ng	88
83) n-Decane	24.98	57	140556	3.256 ng	80
84) Benzyl Chloride	25.04	91	605	N.D.✓	
85) 1,3-Dichlorobenzene	25.07	146	3449	0.070 ng	91
86) 1,4-Dichlorobenzene	25.15	146	107144	2.253 ng	100
87) sec-Butylbenzene	25.21	105	7200	0.072 ng	93
88) p-Isopropyltoluene	25.39	119	23667	0.287 ng	# 63
89) 1,2,3-Trimethylbenzene	25.40	105	85922	1.119 ng	89
90) 1,2-Dichlorobenzene	25.56	146	617	N.D.✓	
91) d-Limonene	25.57	68	10290	0.329 ng	81
92) 1,2-Dibromo-3-Chloropr...	26.24	157	552	N.D.✓	
93) n-Undecane	26.50	57	84221	1.864 ng	80
94) 1,2,4-Trichlorobenzene	27.62	180	1016	N.D.✓	
95) Naphthalene	27.77	128	44438	0.429 ng	95
96) n-Dodecane	27.73	57	114200	2.542 ng	86
97) Hexachloro-1,3-butadiene	28.19	225	388117	17.112 ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 0.64ng

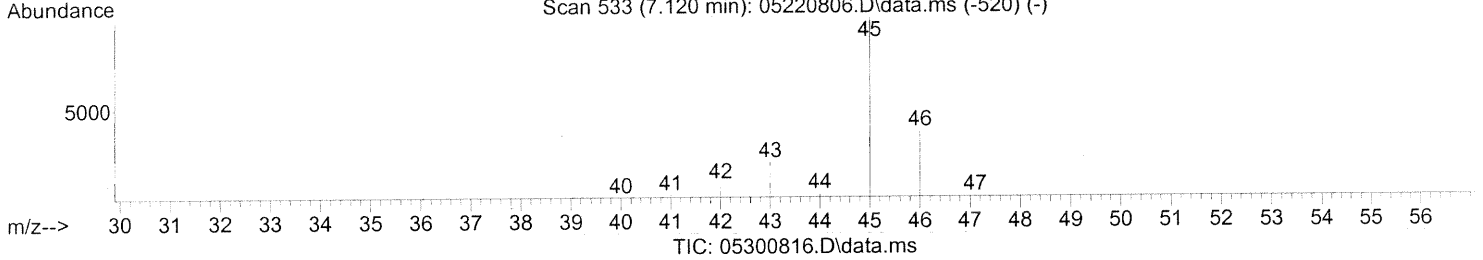
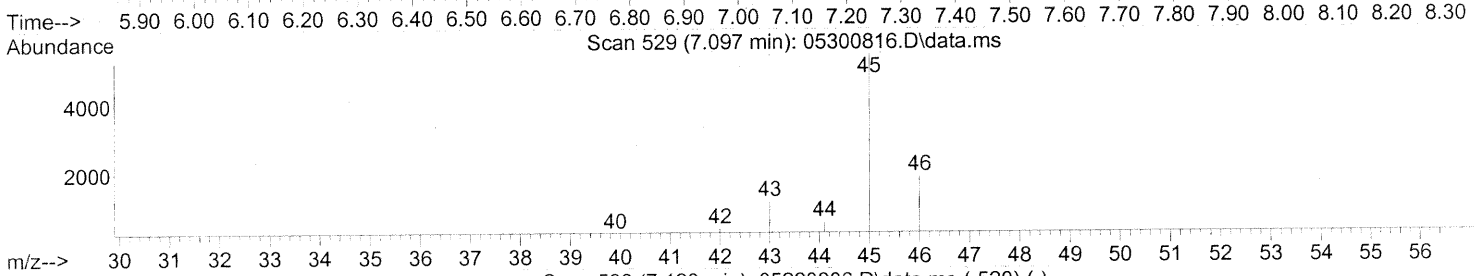
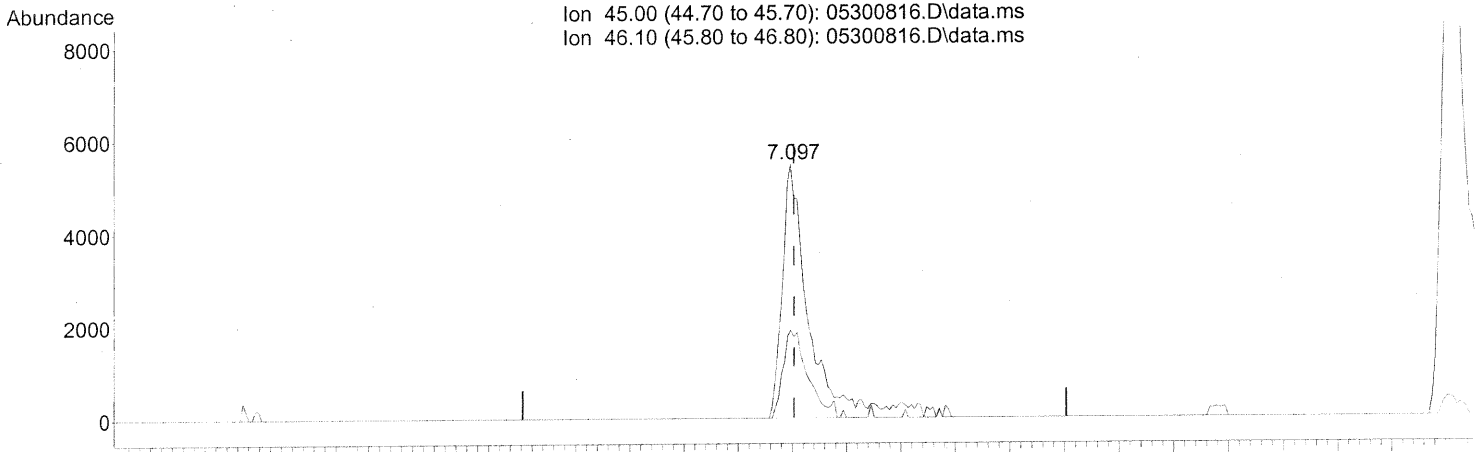
response 29644

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.88
100.90	9.30	9.61
102.90	6.00	6.43

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.097min (-0.006) 1.02ng  
 response 17158

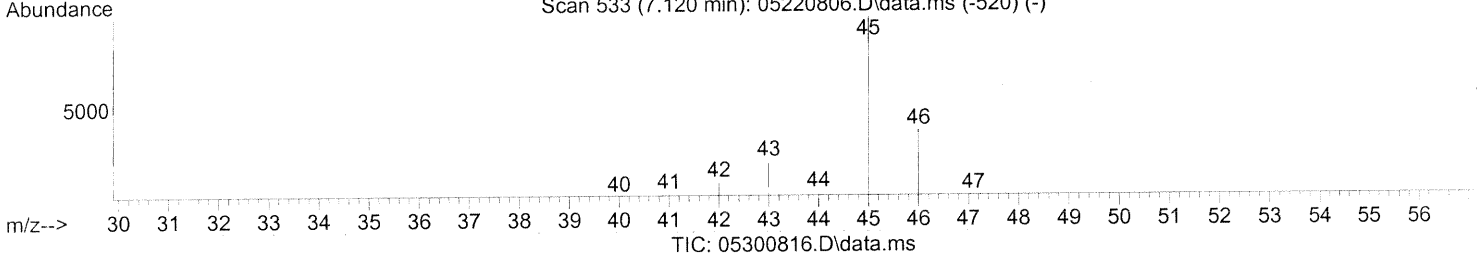
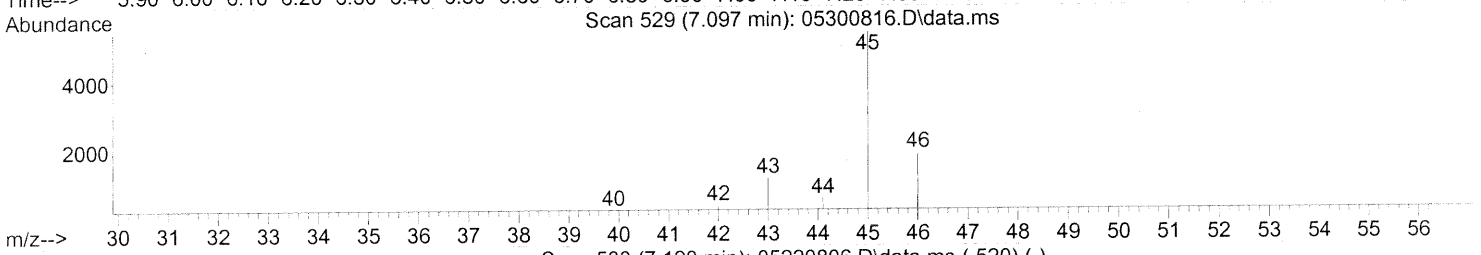
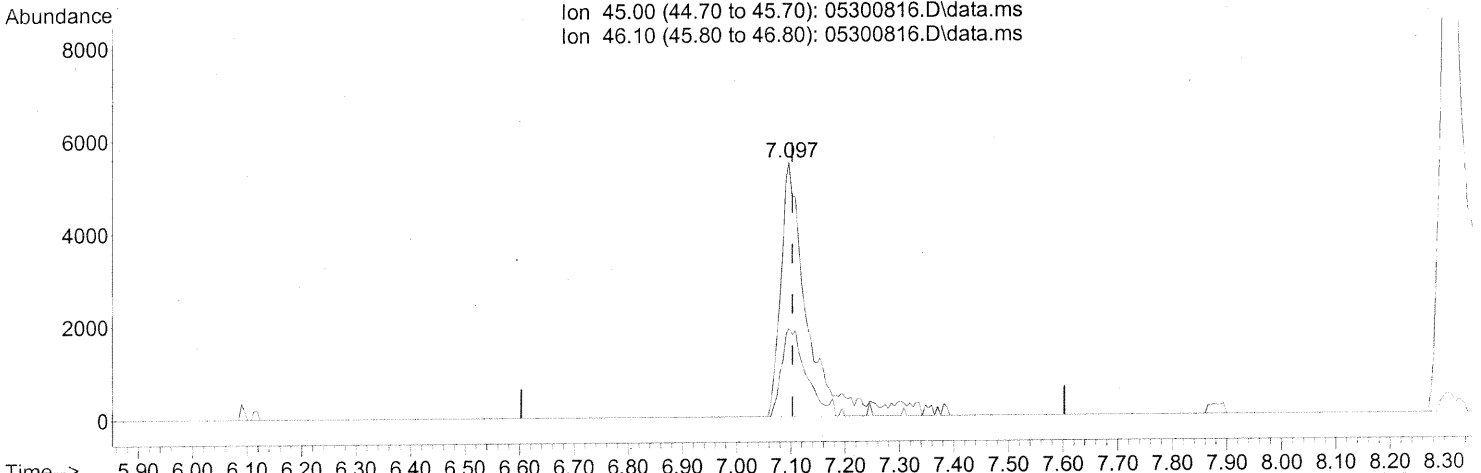
*TAILING*

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.097min (-0.006) 1.15ng m  
response 19367

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.78
0.00	0.00	0.00
0.00	0.00	0.00

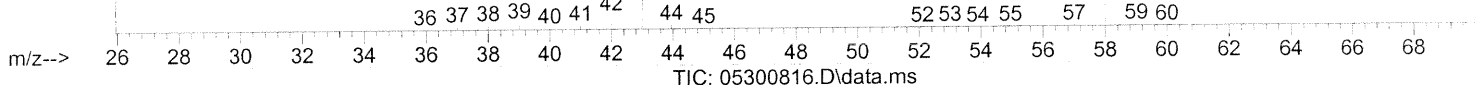
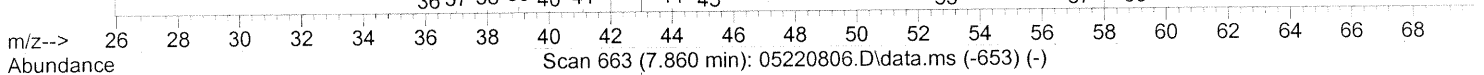
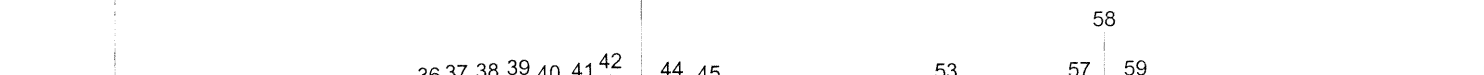
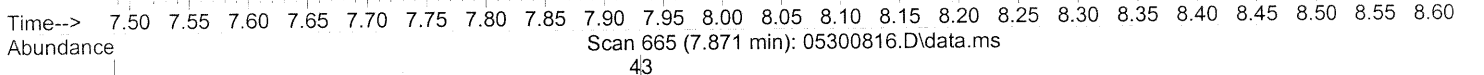
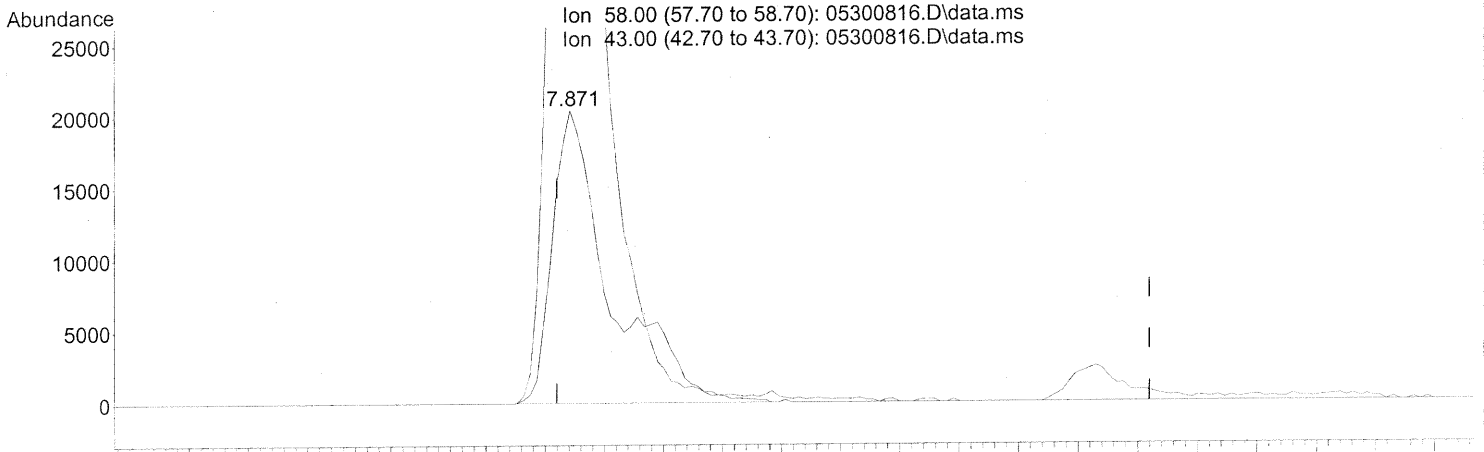
ADDED TAILING  
fss/08/08  
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.871min (+0.011) 4.02ng

response 69129

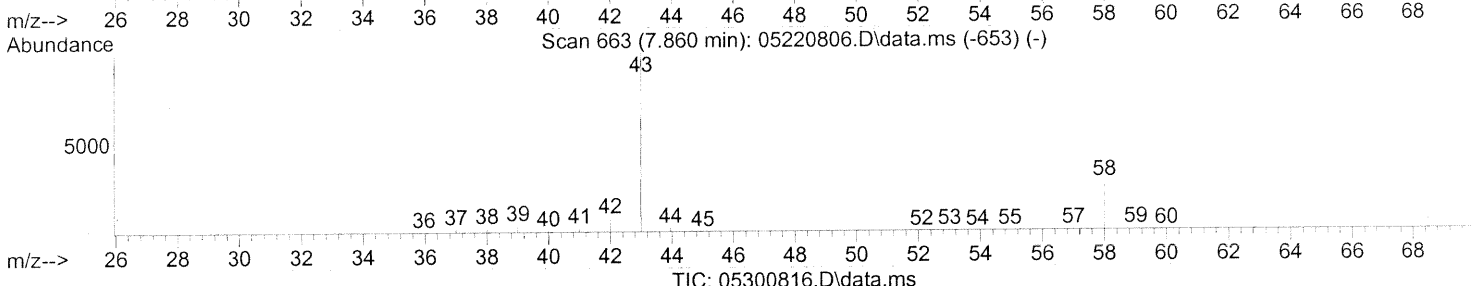
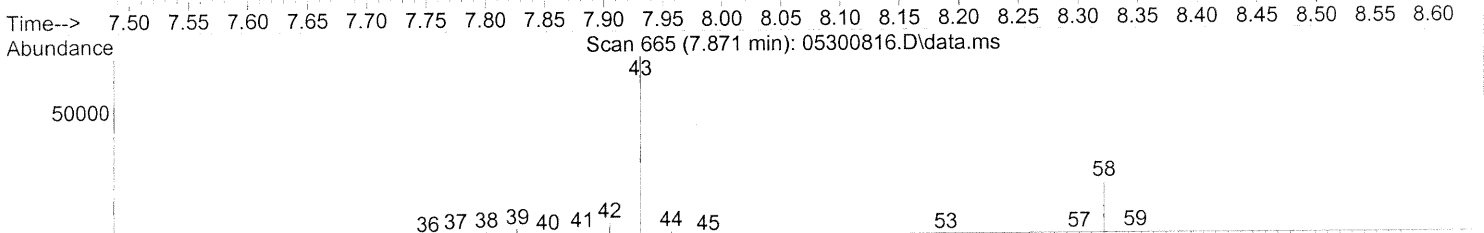
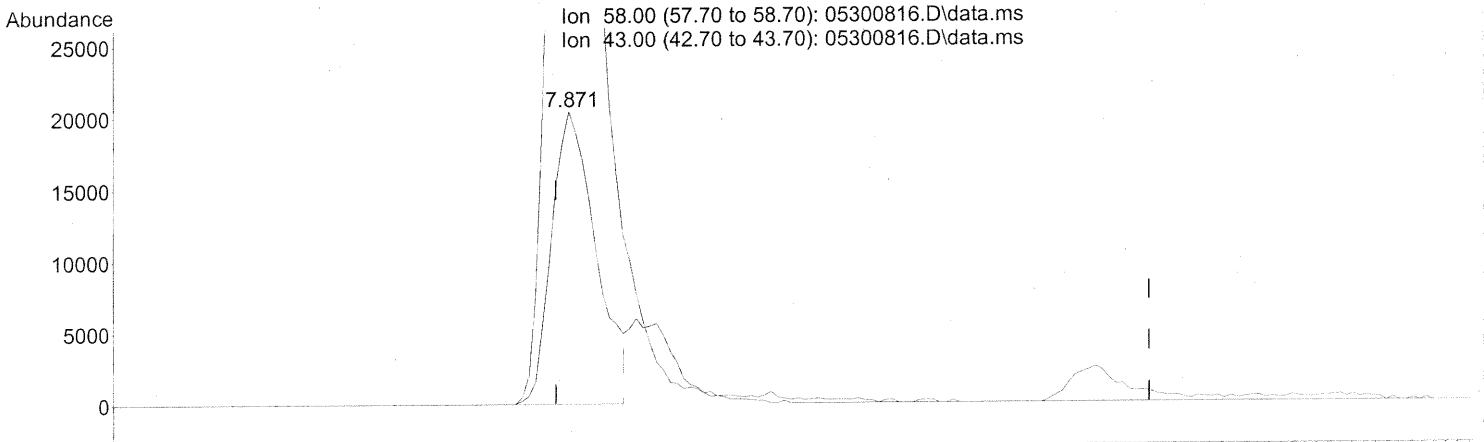
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	292.83
0.00	0.00	0.00
0.00	0.00	0.00

INTERFERING PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)  
7.871min (+0.011) 3.09ng m  
response 53218

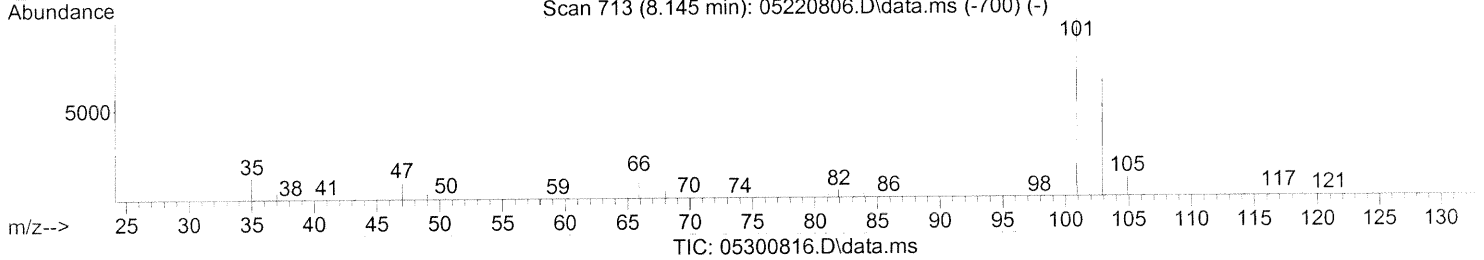
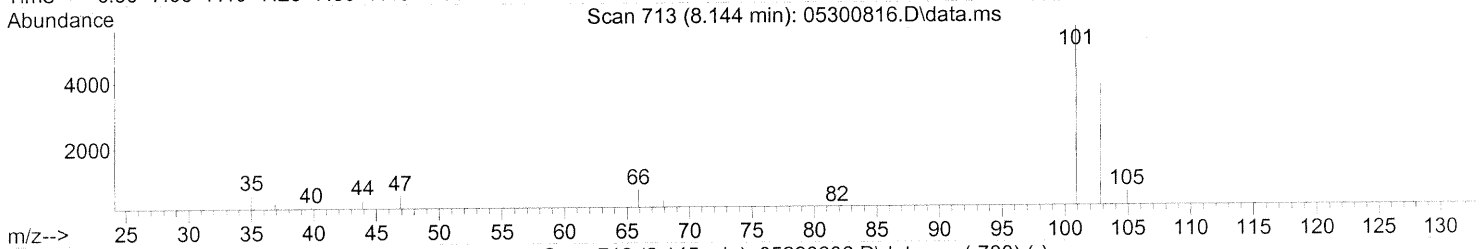
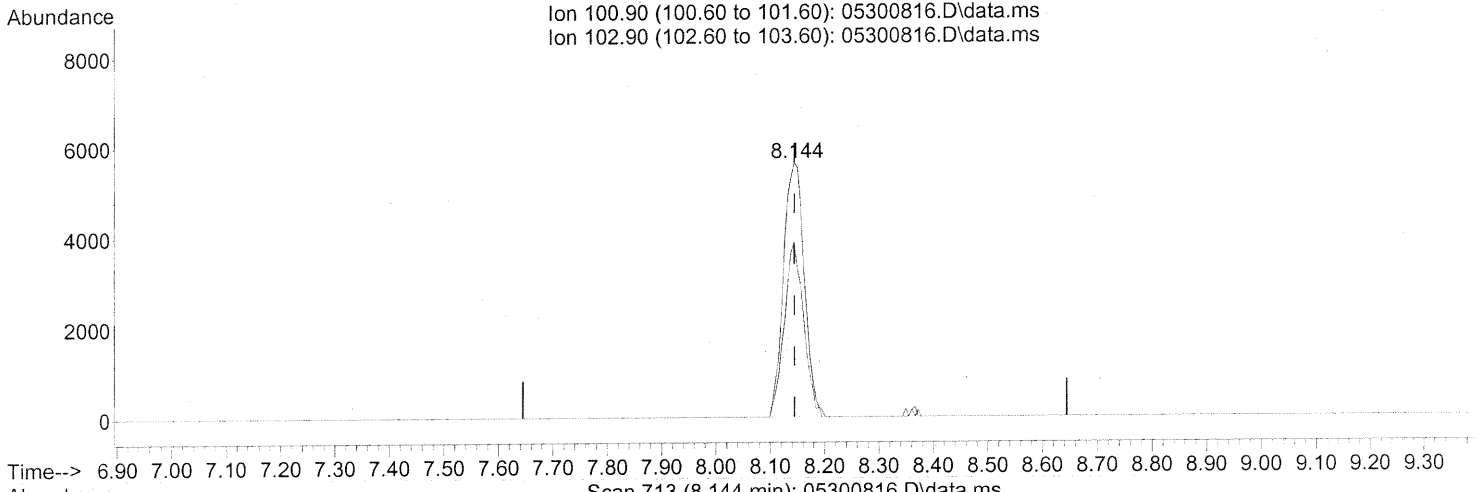
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	380.38#
0.00	0.00	0.00
0.00	0.00	0.00

EXCLUDED INTERF. PEAK  
6/06/08  
E. 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.37ng

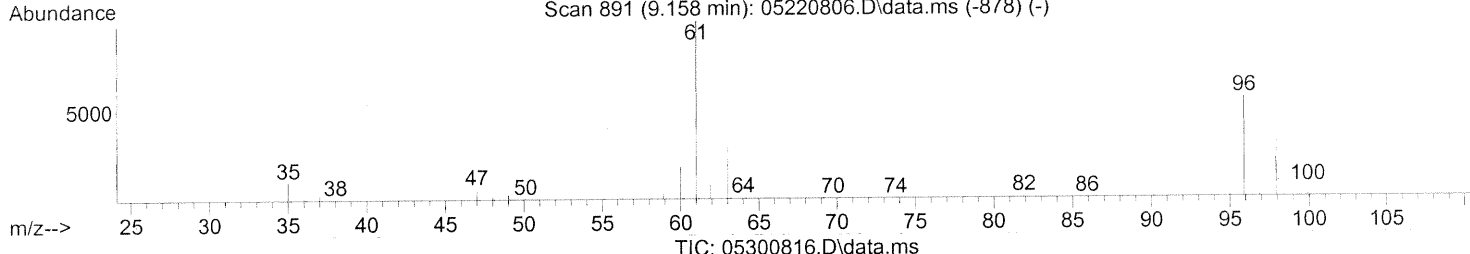
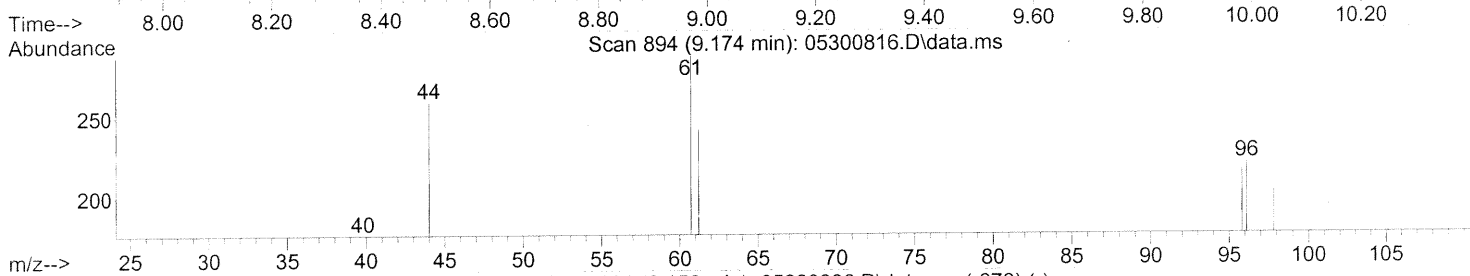
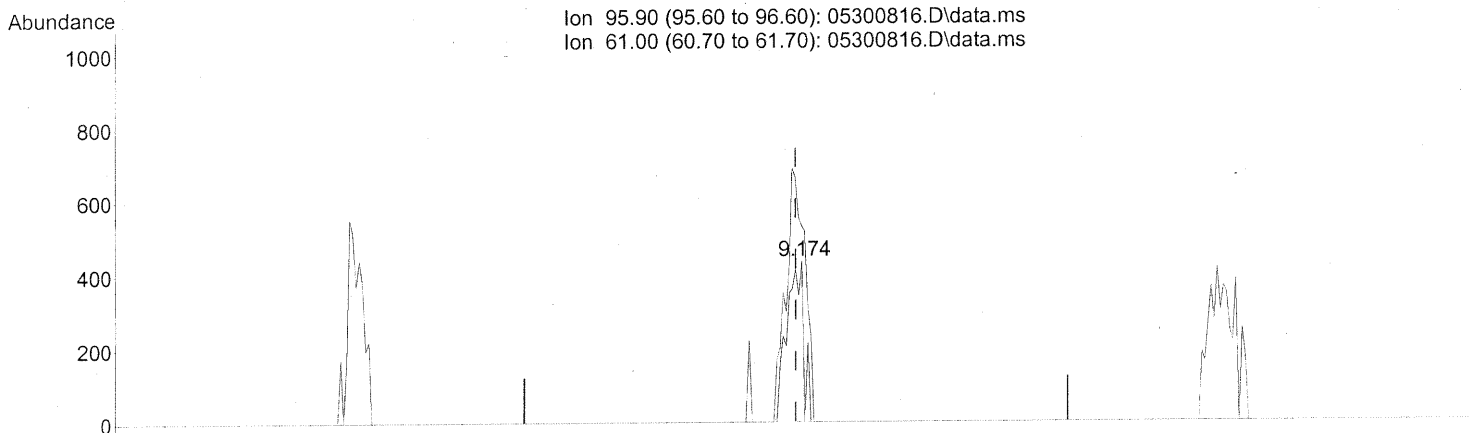
response 14888

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.174min (+0.011) 0.05ng

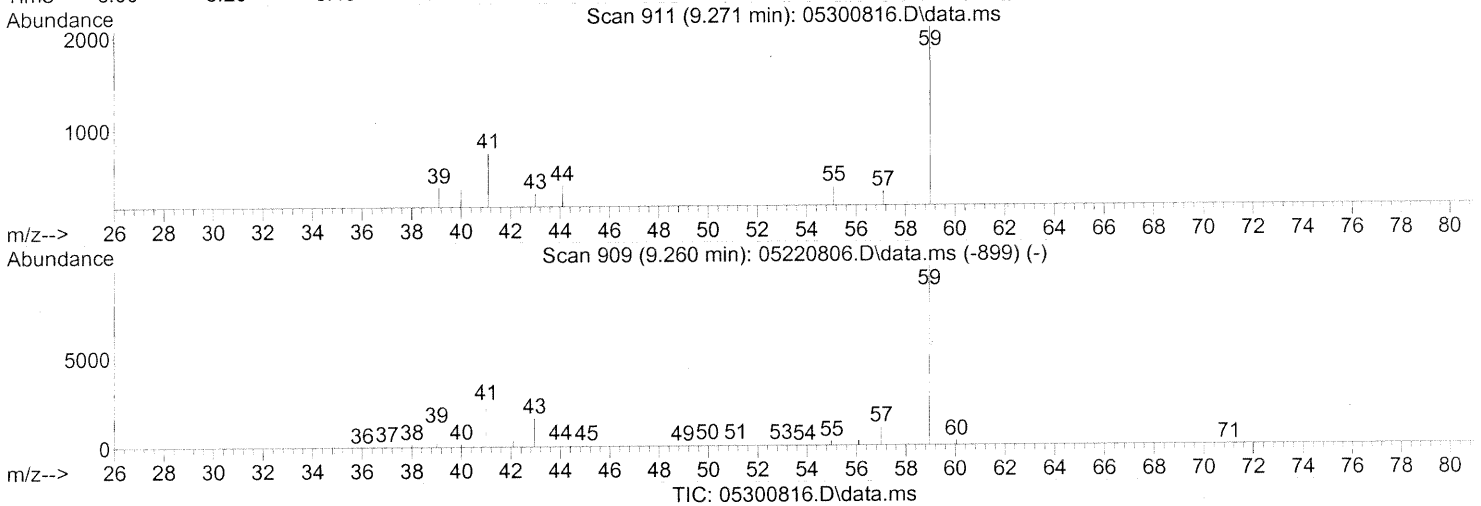
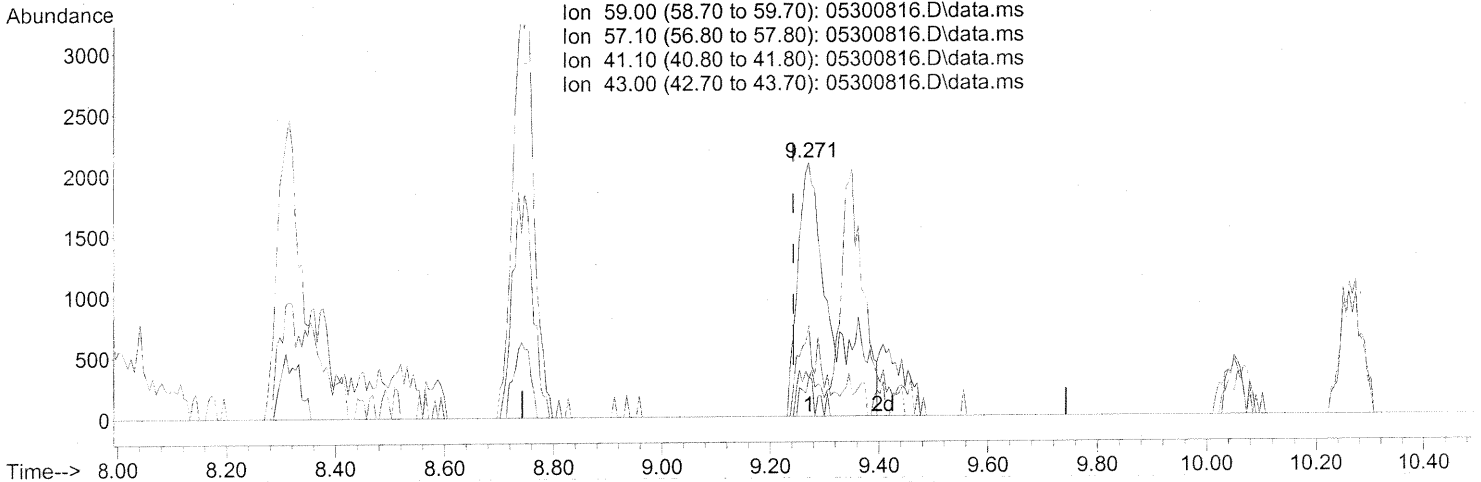
response 926

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	182.61#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.20ng

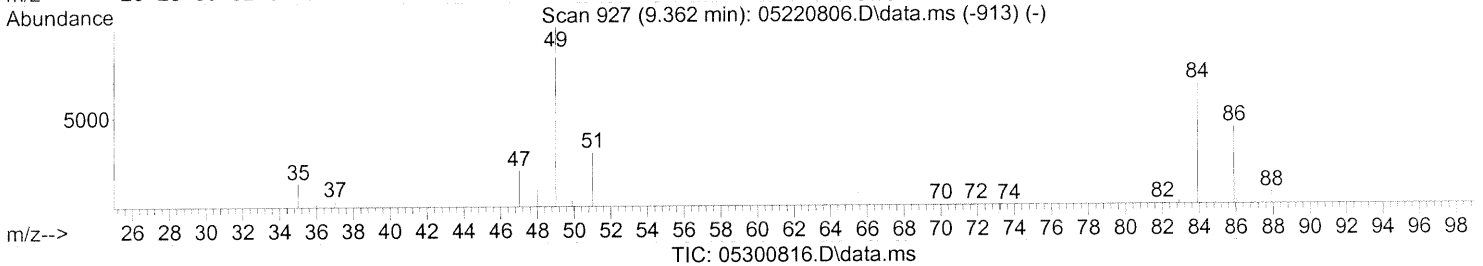
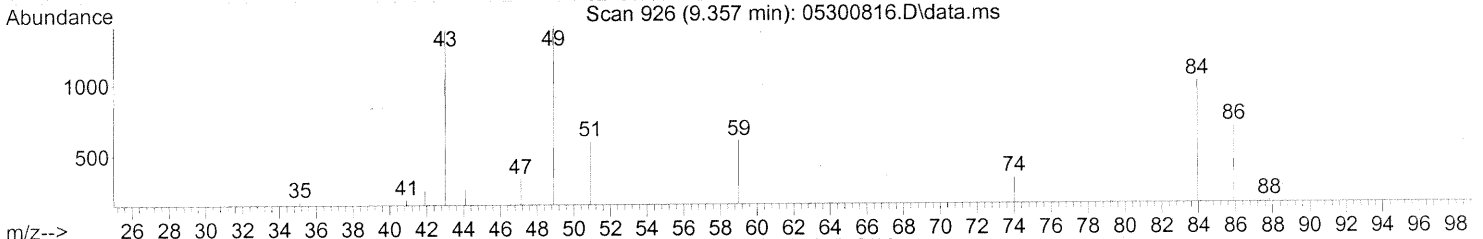
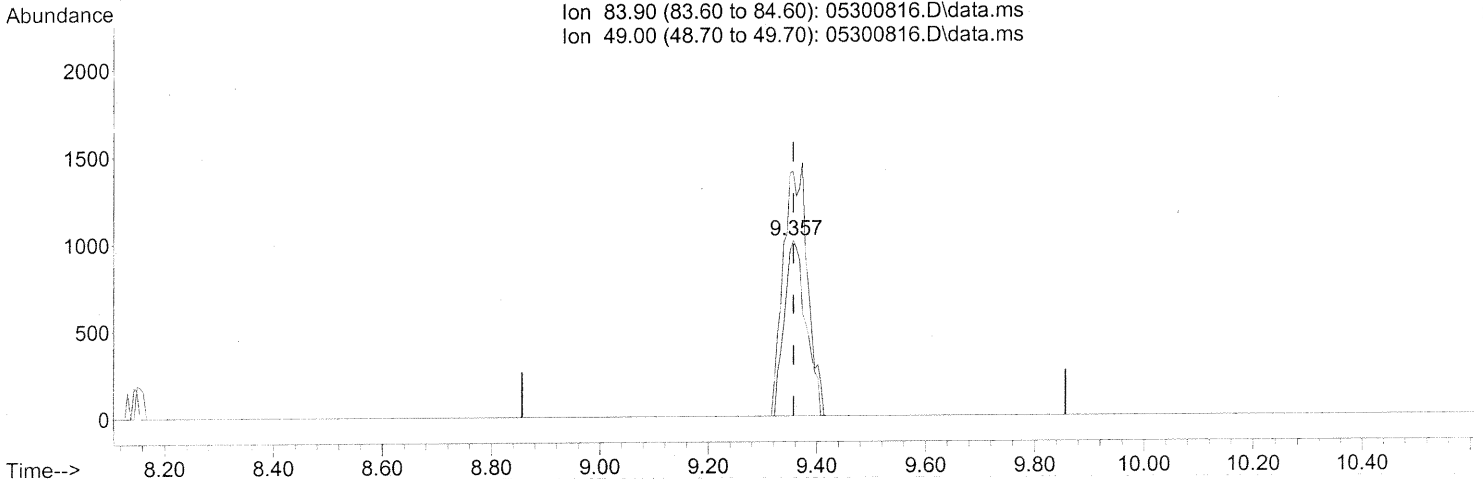
response 9200

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.64
41.10	20.10	14.41
43.00	12.30	10.54

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 31 05:03:03 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.14ng

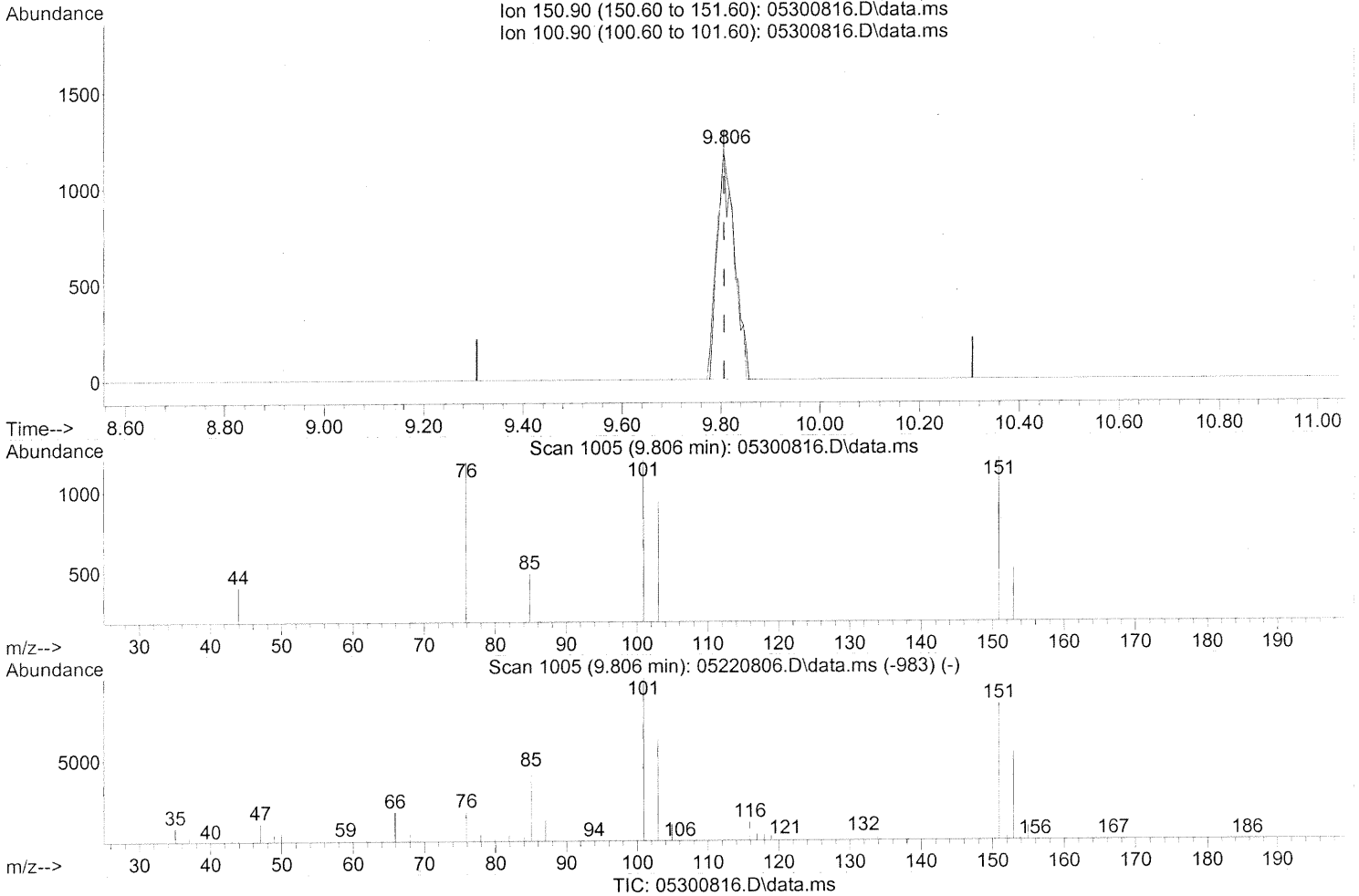
response 2770

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	161.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.15ng

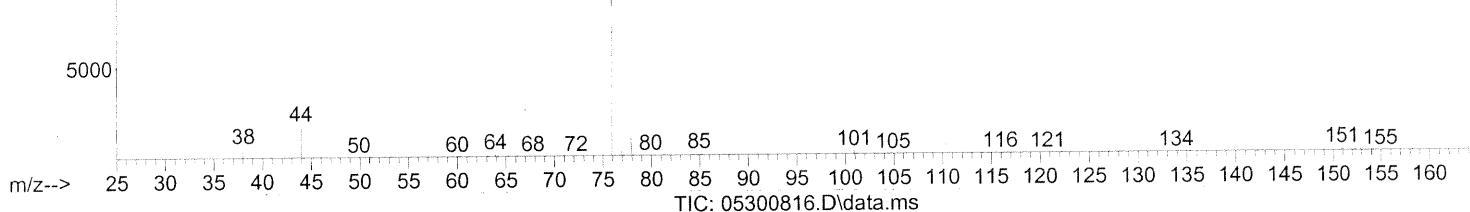
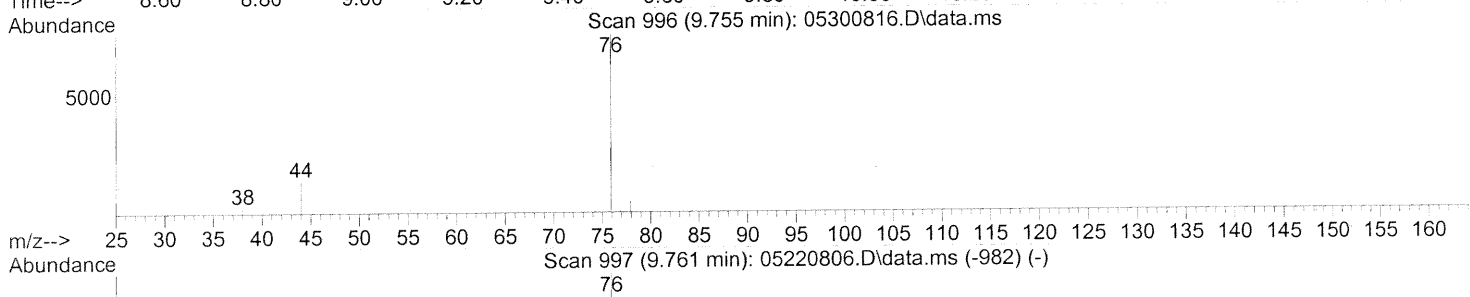
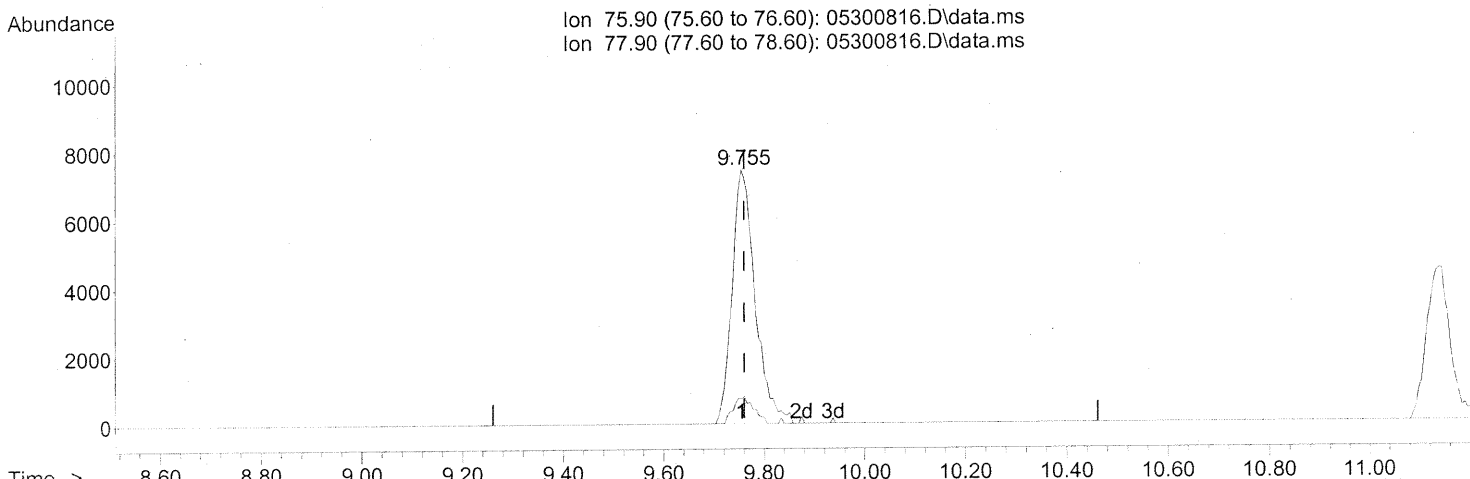
response 2799

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	105.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 0.32ng

response 23651

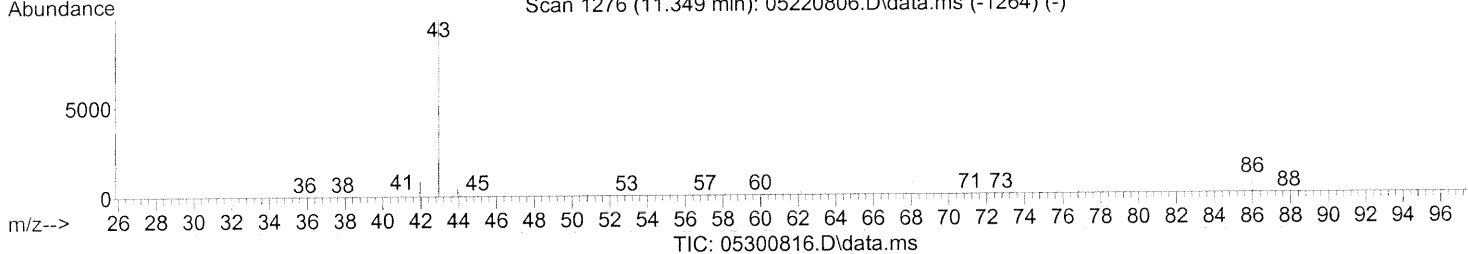
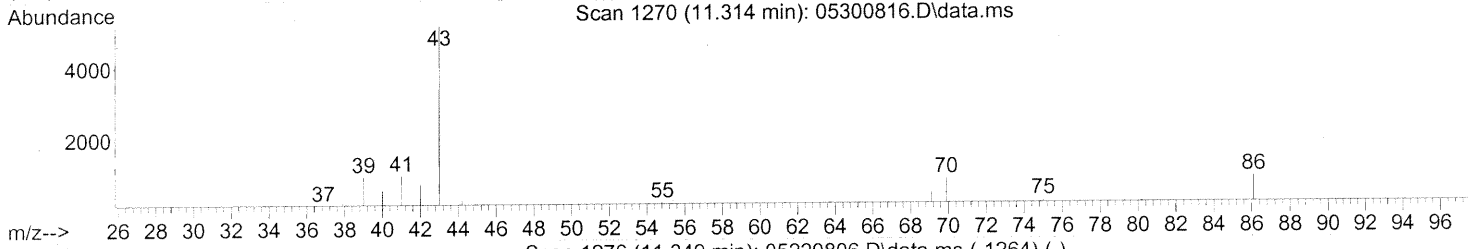
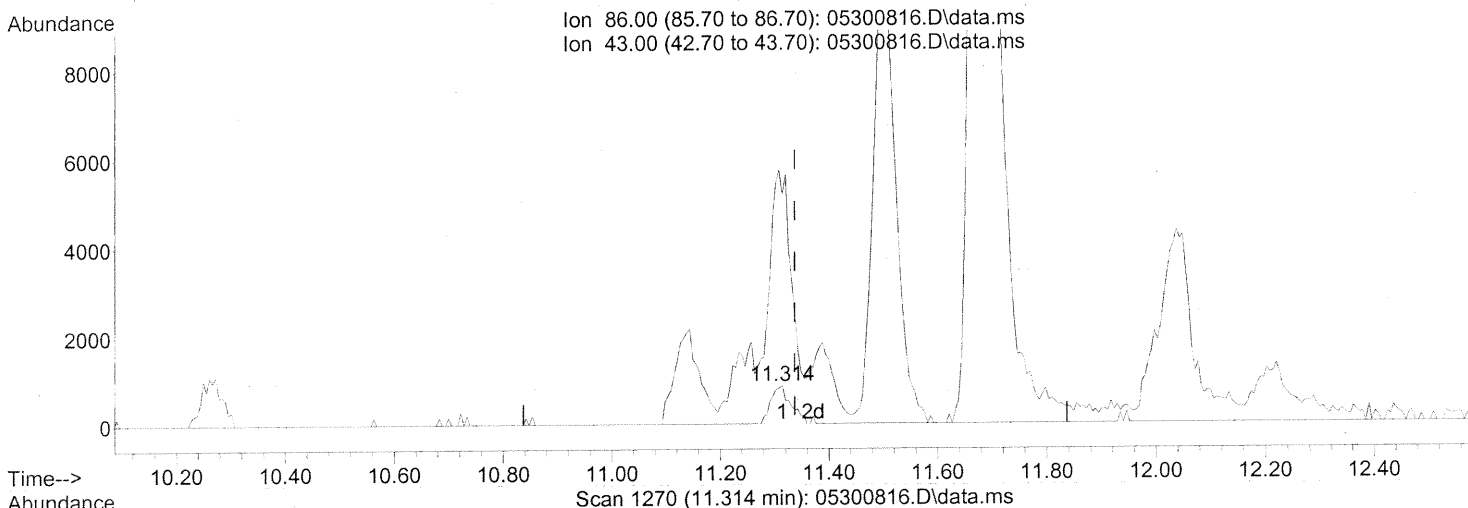
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.27
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.314min (-0.023) 0.68ng

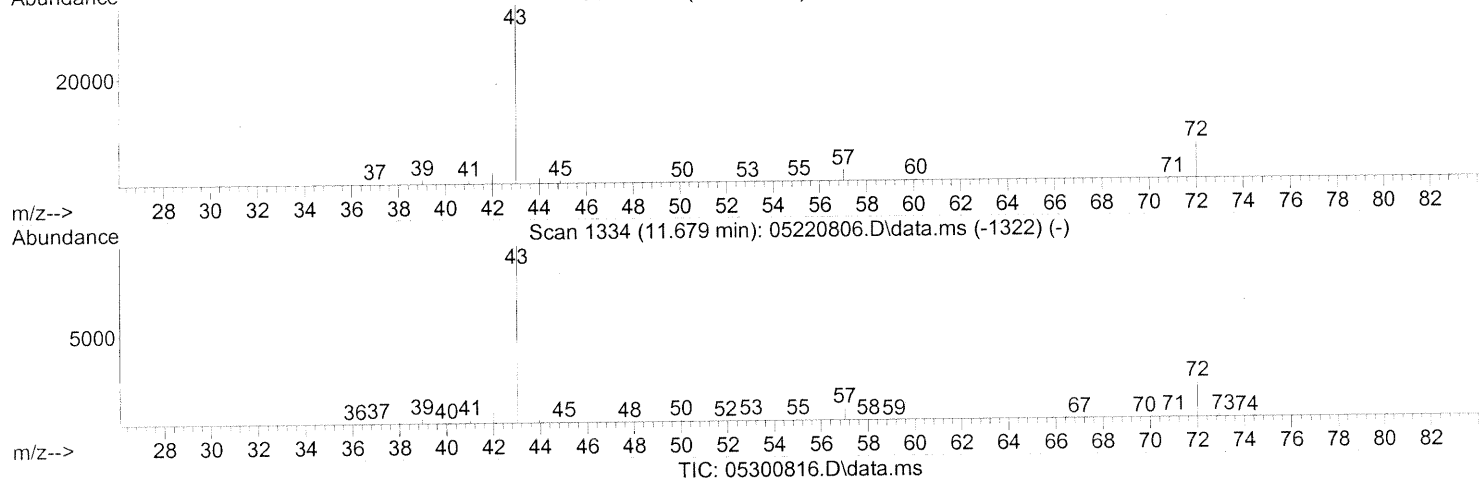
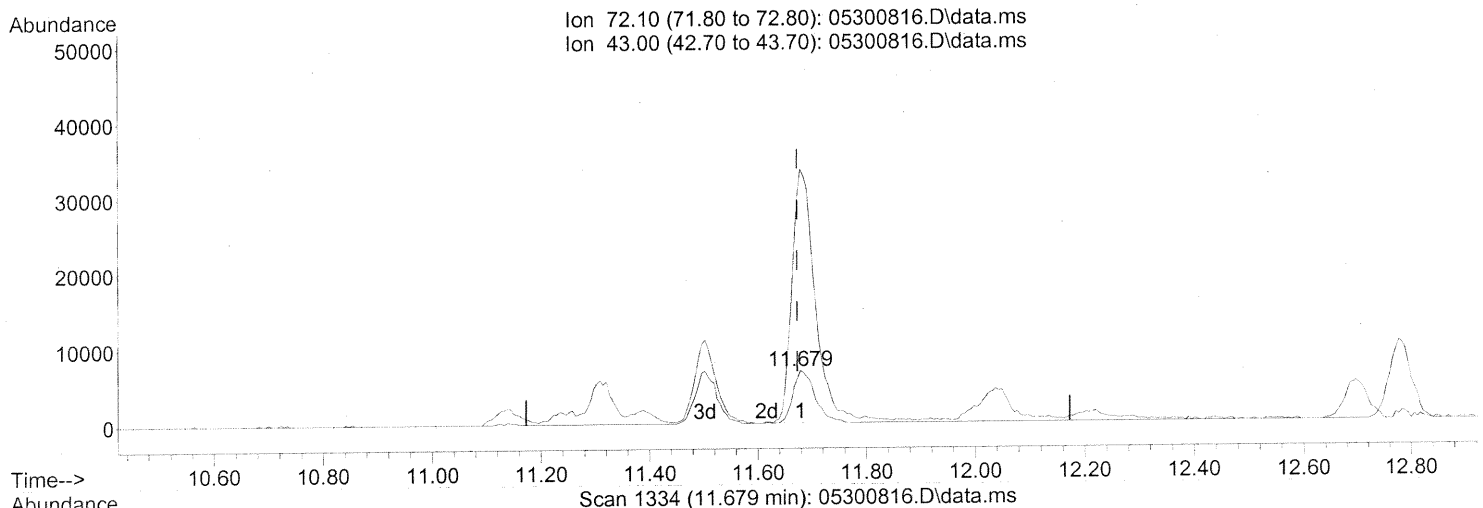
response 2173

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	743.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.679min (+0.006) 1.53ng

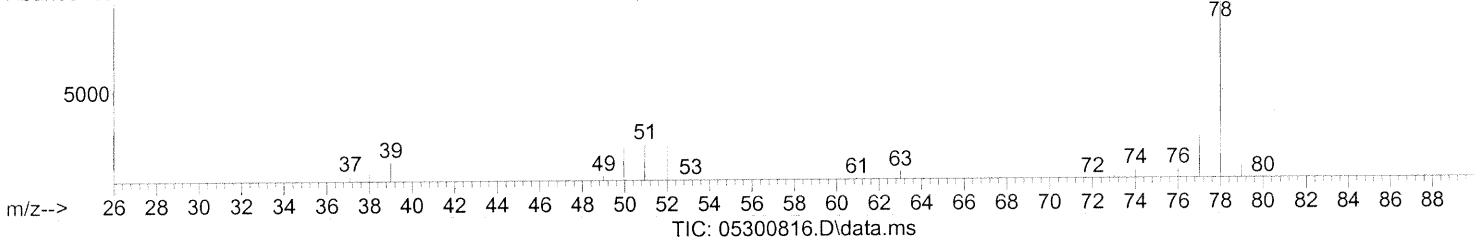
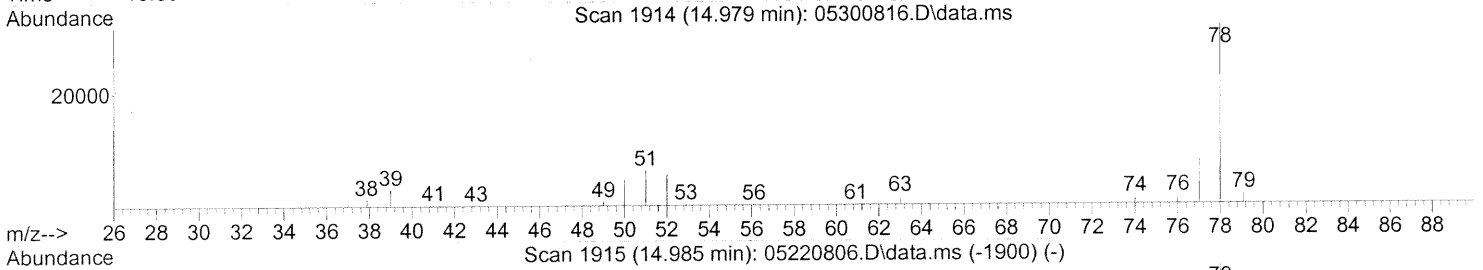
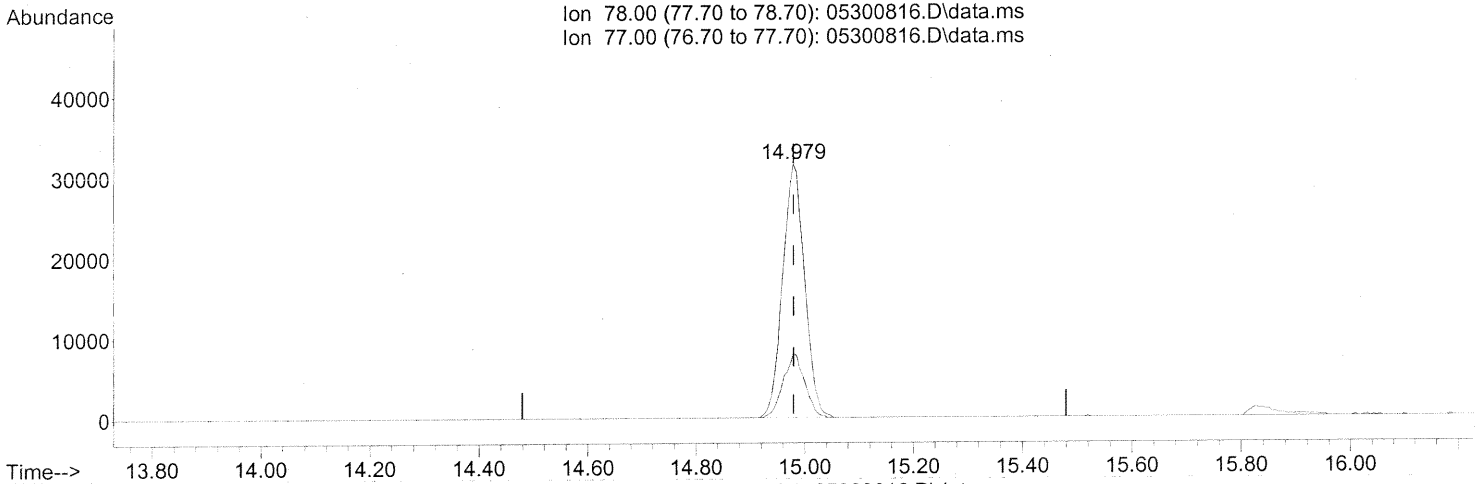
response 19150

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	514.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.979min (-0.000) 1.22ng

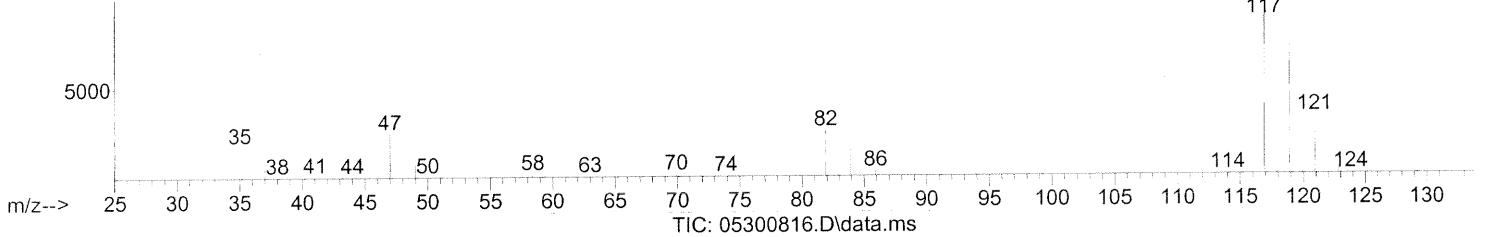
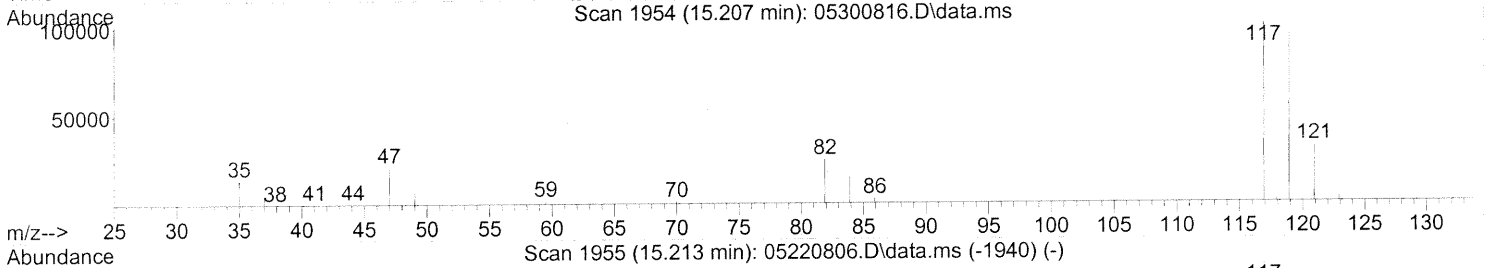
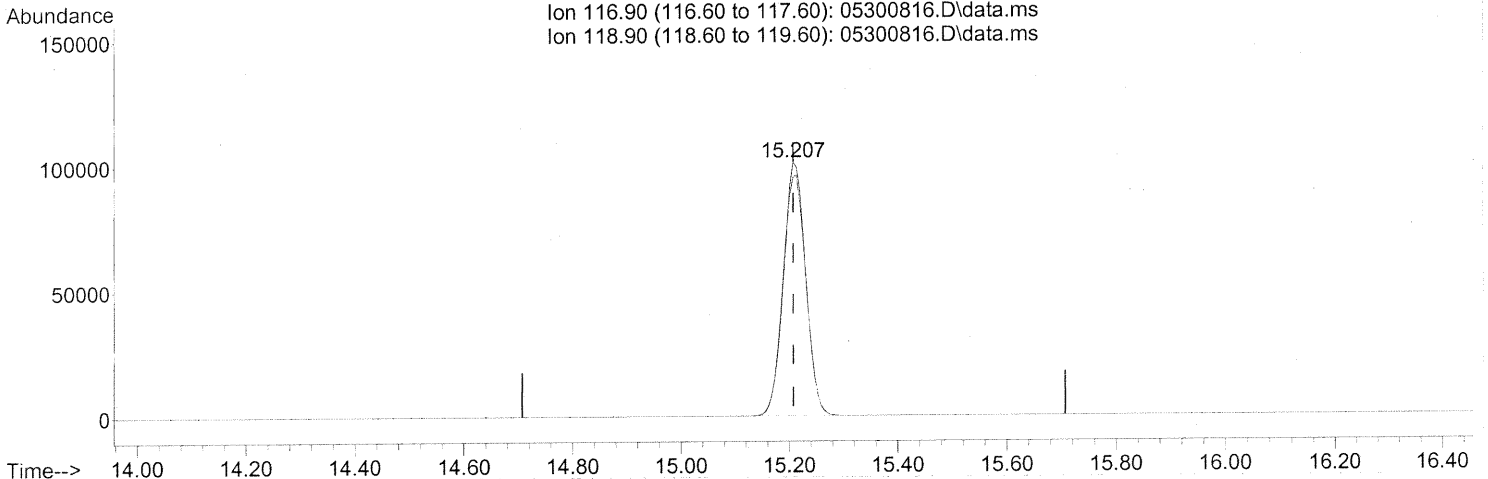
response 87883

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 10.40ng

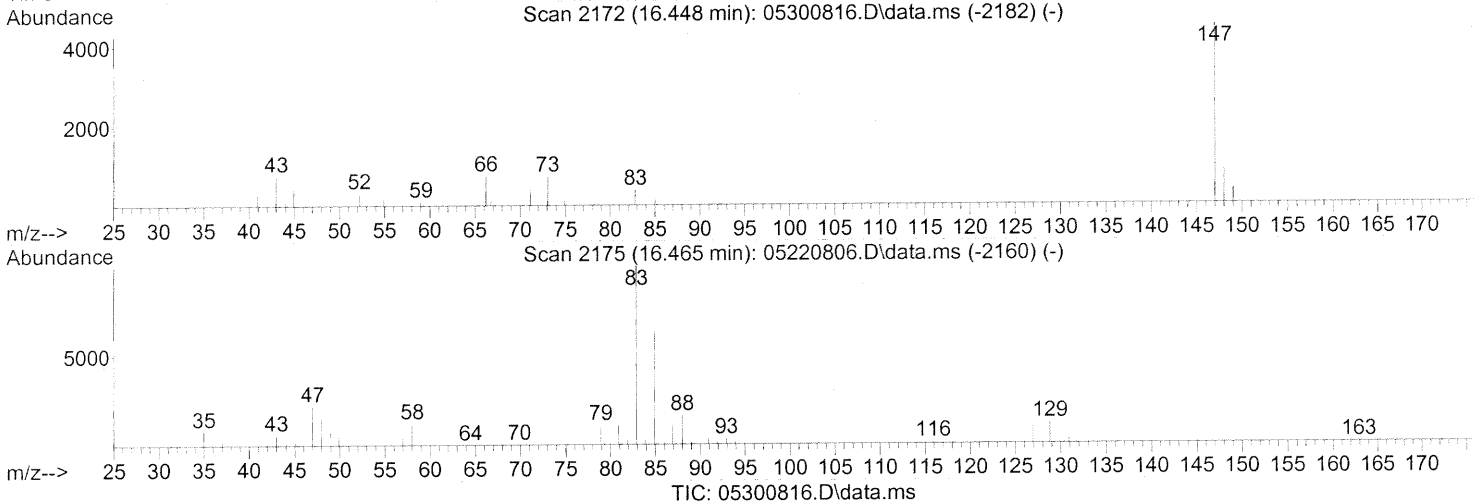
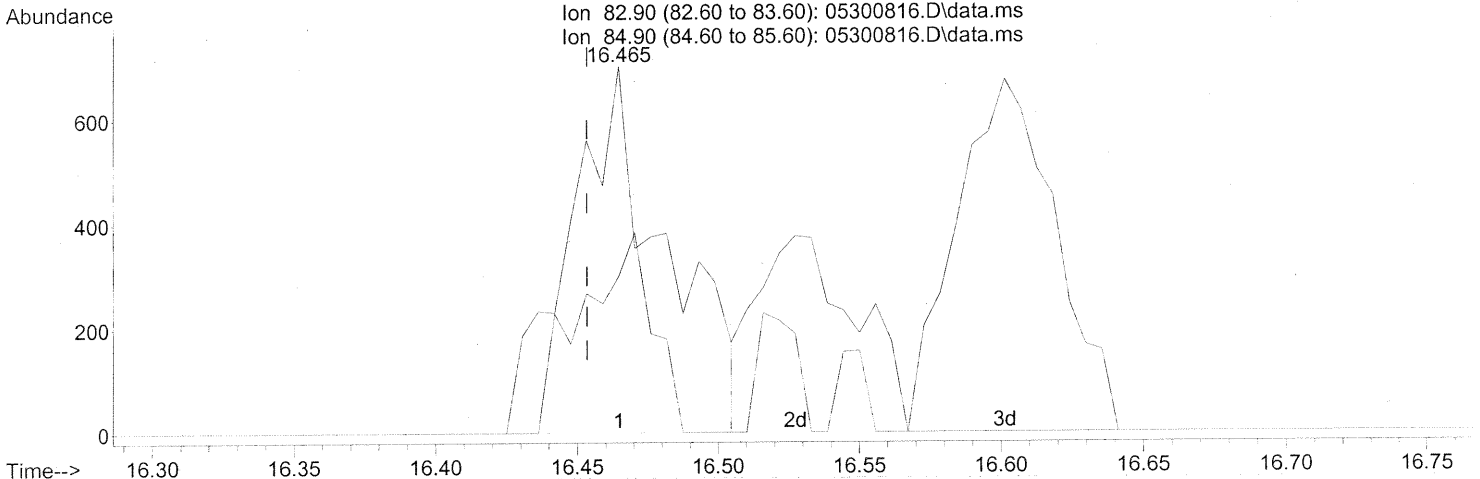
response 289346

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.07ng

response 1679

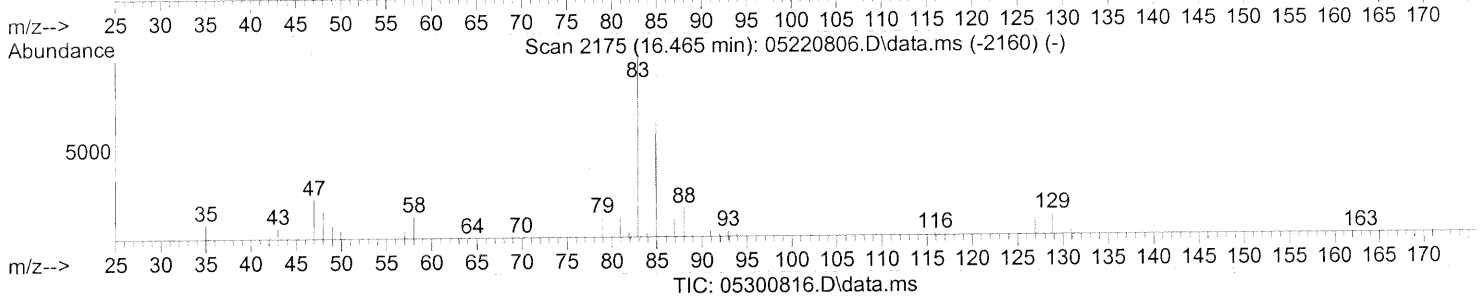
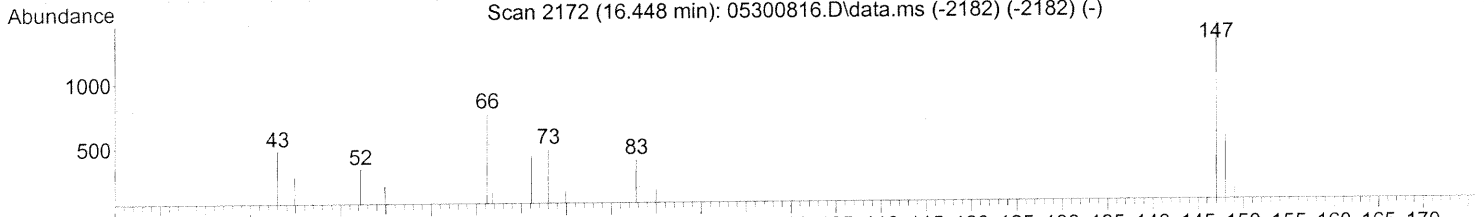
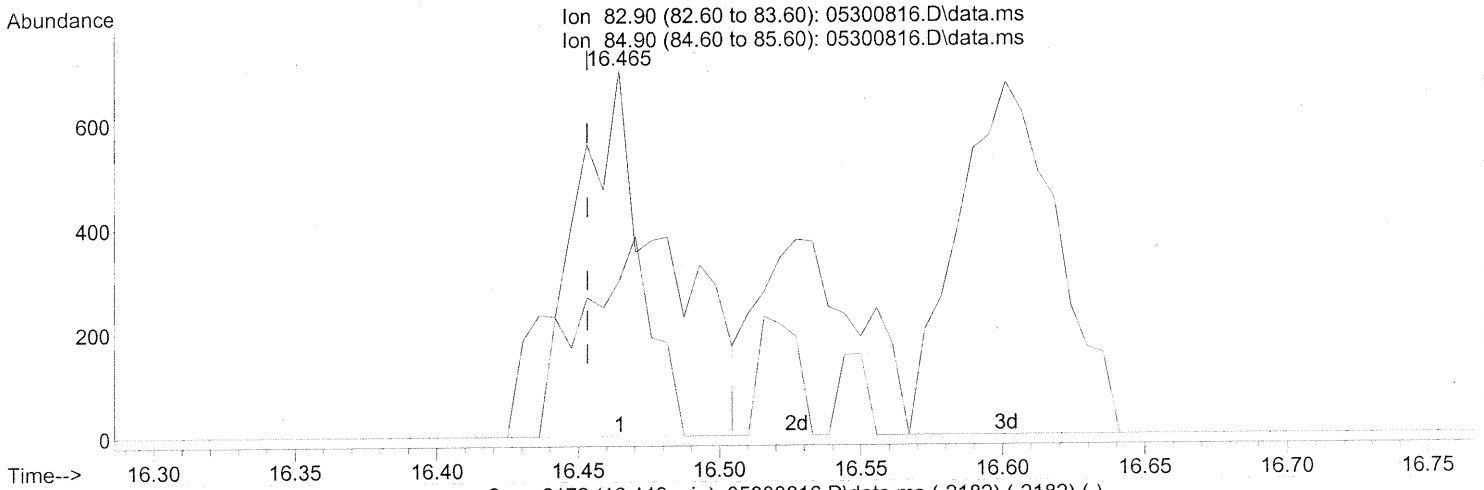
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	40.02#
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.07ng

response 1679

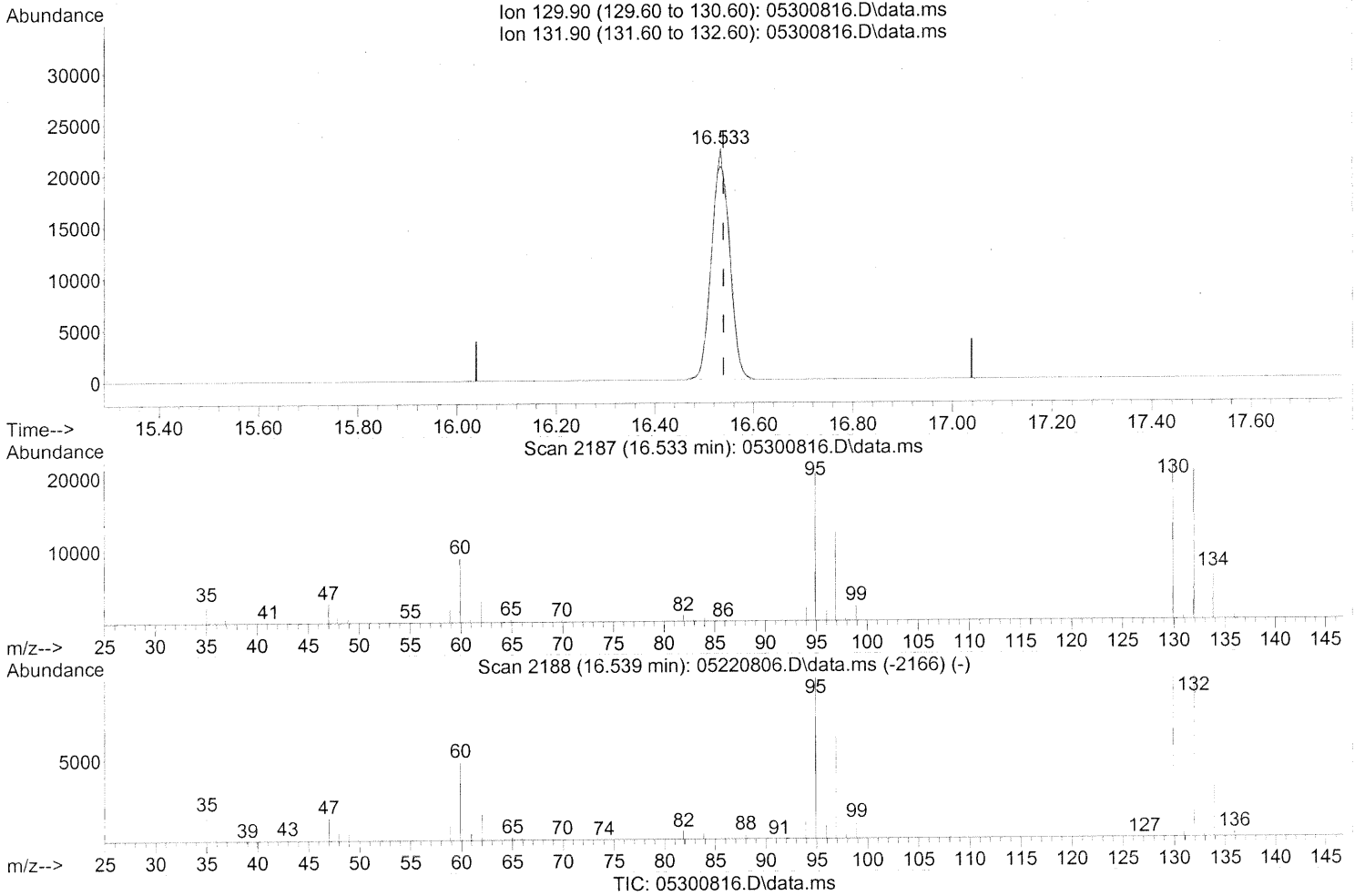
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	40.02#
0.00	0.00	0.00
0.00	0.00	0.00

*AFTER SUBTRACTION*  
*P 06/04/08*  
*W. 6/9/08*

Quantitation Report (Qealt)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 2.51ng

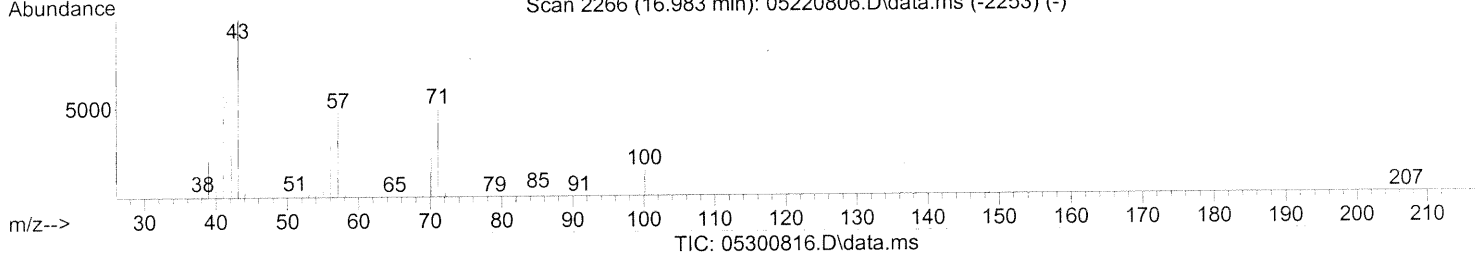
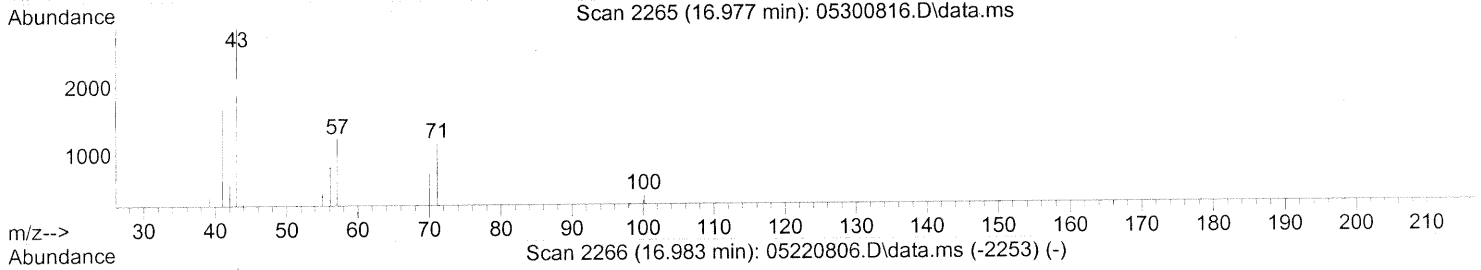
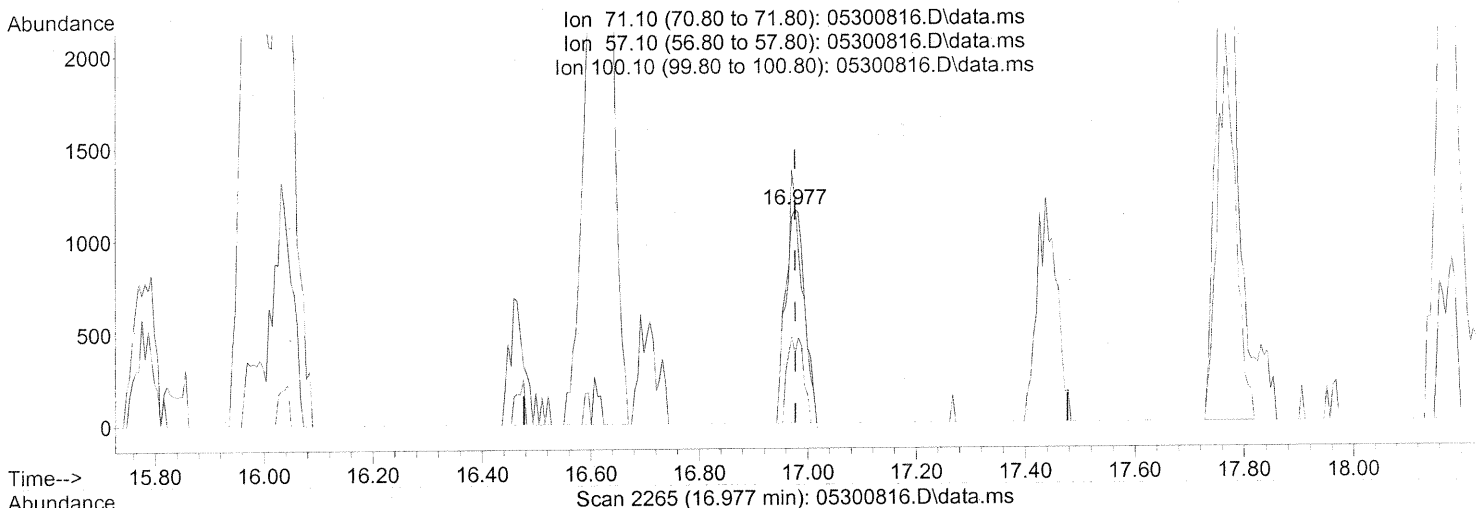
response 55674

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)  
 16.977min (-0.000) 0.15ng  
 response 2873

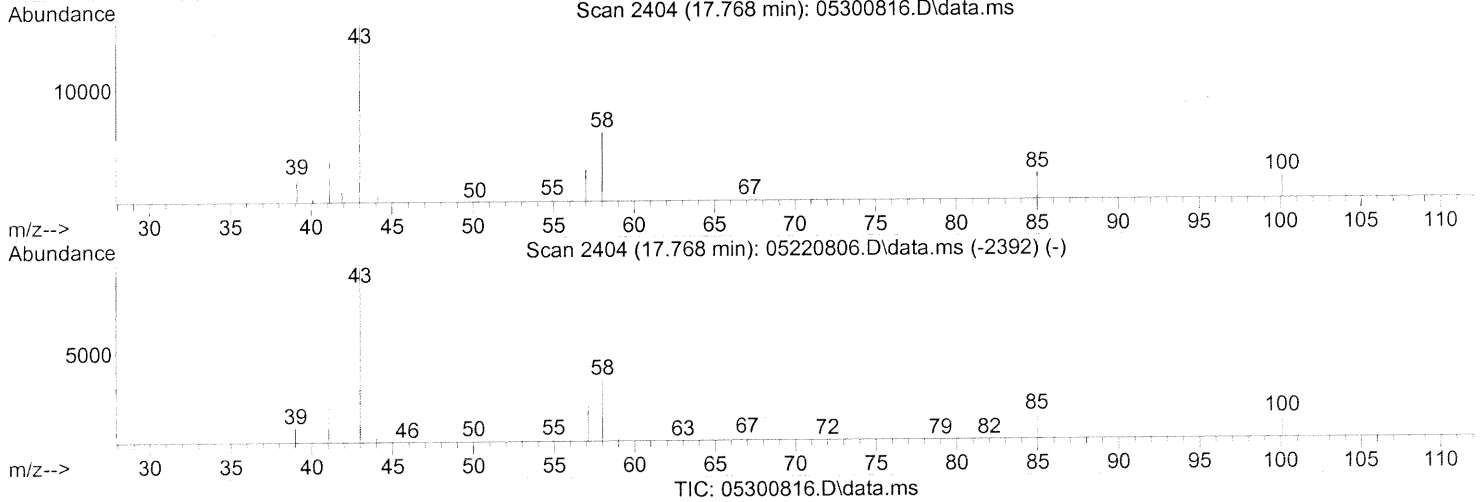
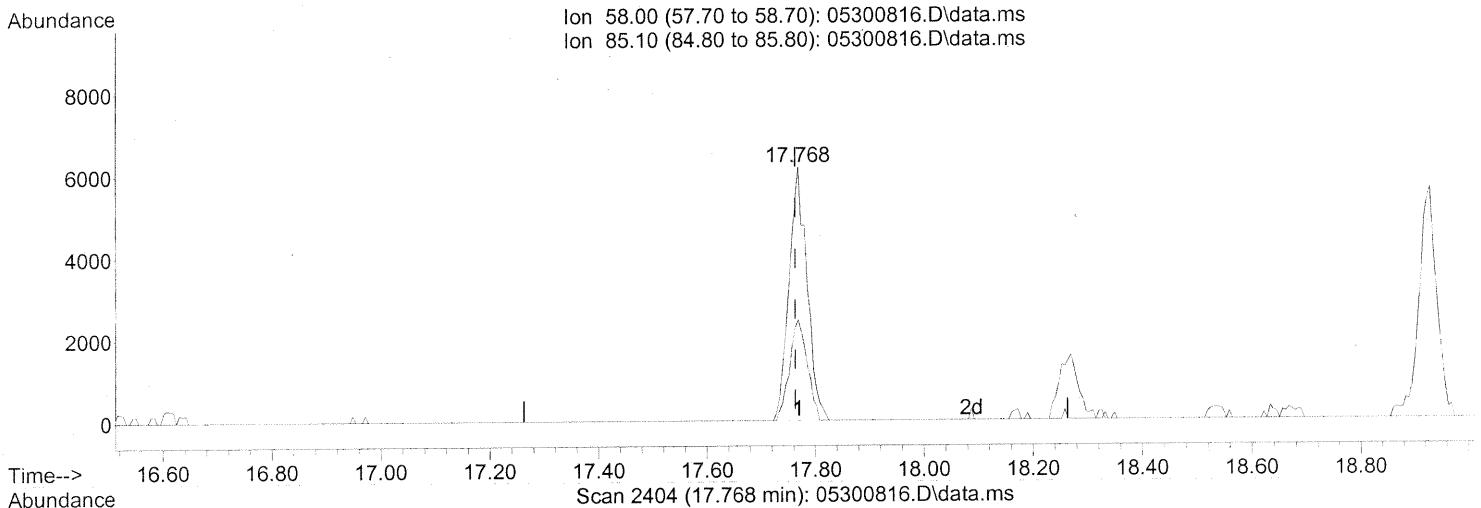
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	95.75#
100.10	30.10	32.72
0.00	0.00	0.00



Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300816.D  
Acq On : 30 May 2008 9:51 pm  
Operator : WA  
Sample : P0801548-001 (500ml)  
Misc : ENSR SG91B-05 (-3.3,3.5)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.768min (+0.005) 0.74ng

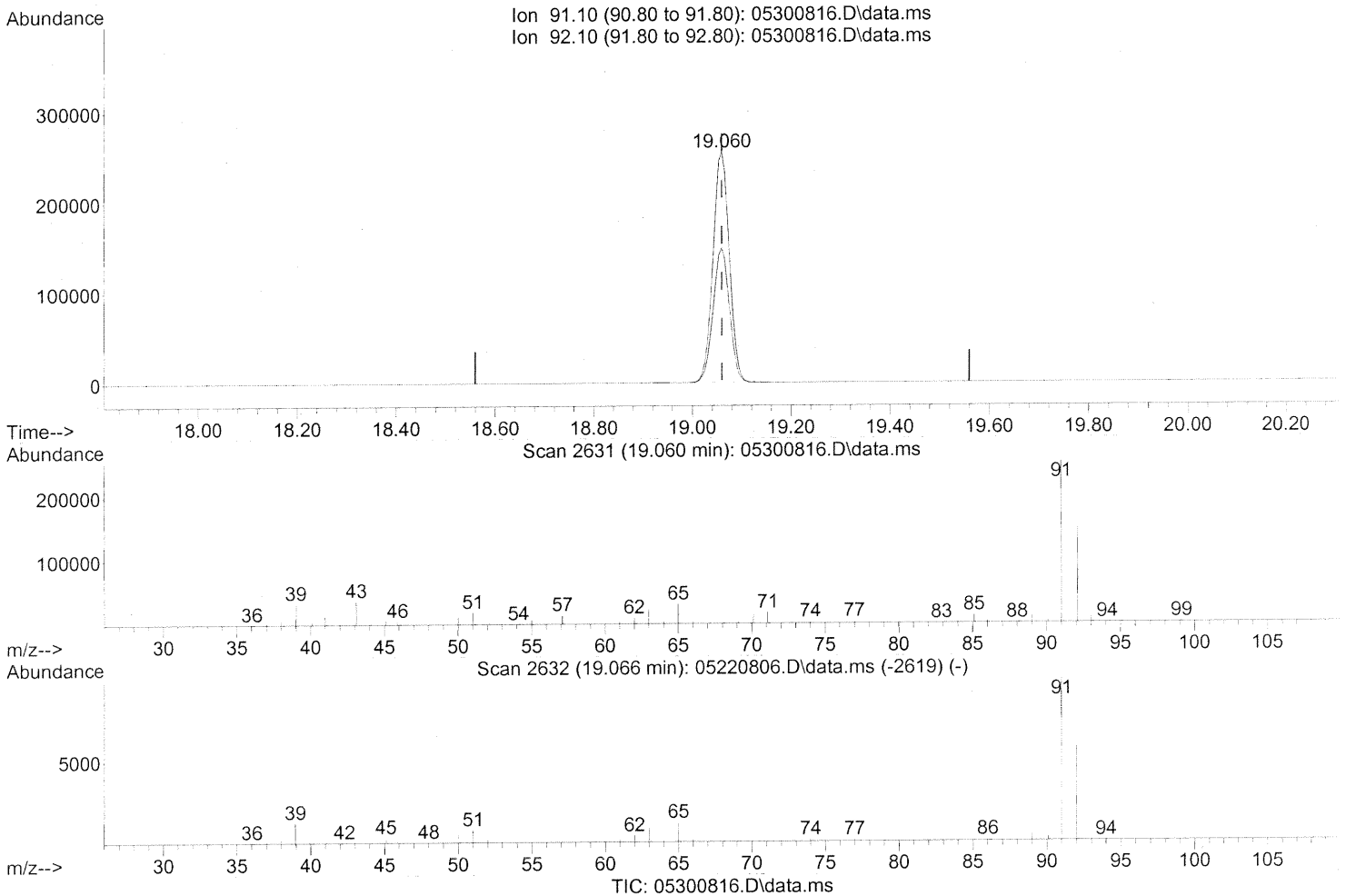
response 14188

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

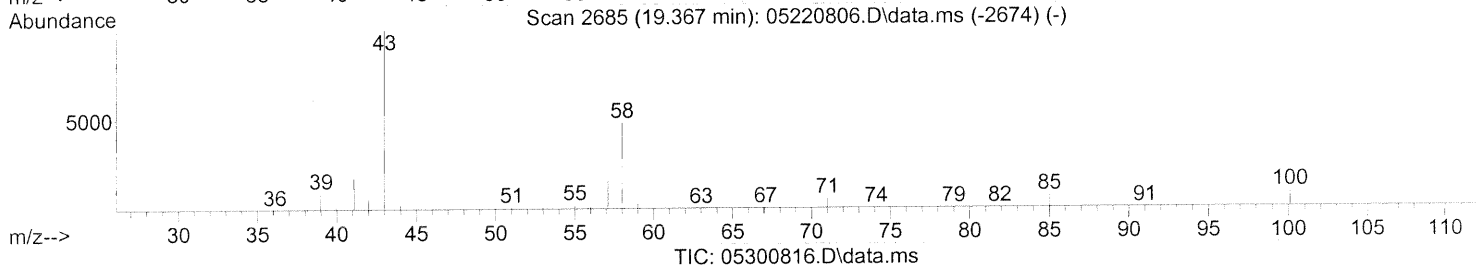
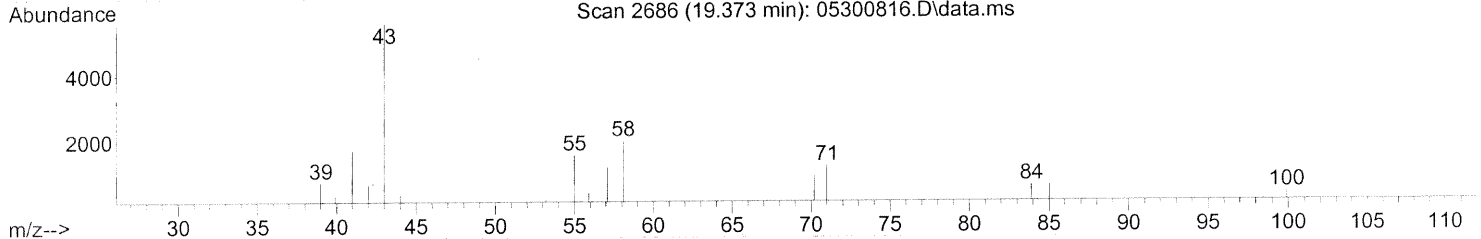
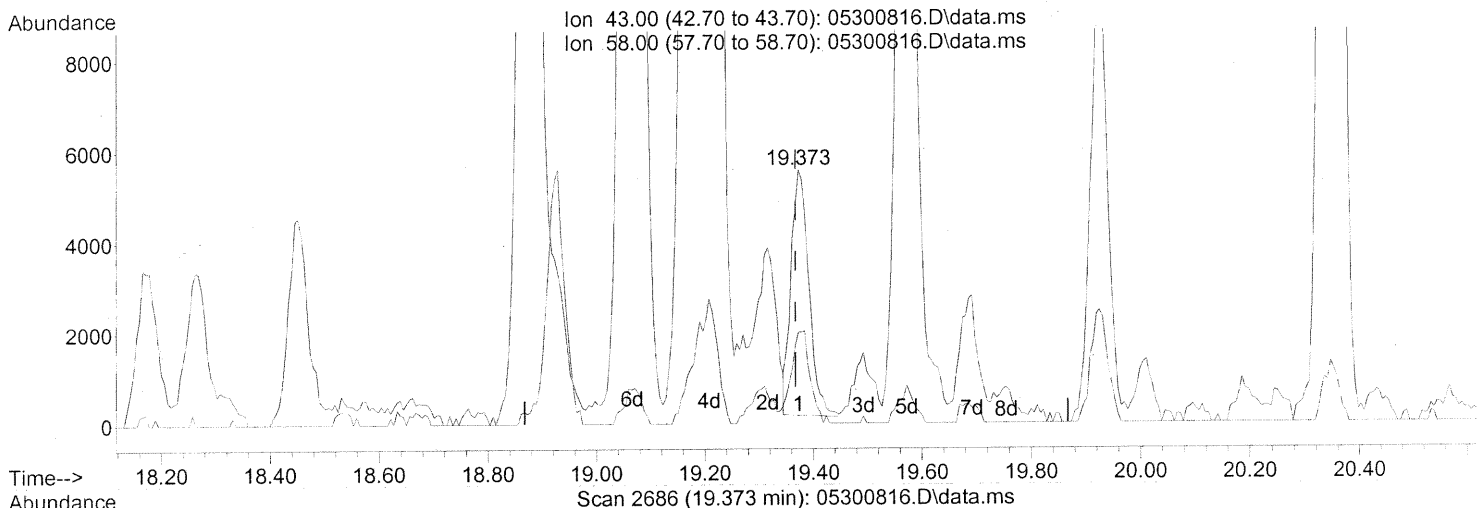
19.060min (-0.000) 7.49ng

response 584207

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.38
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



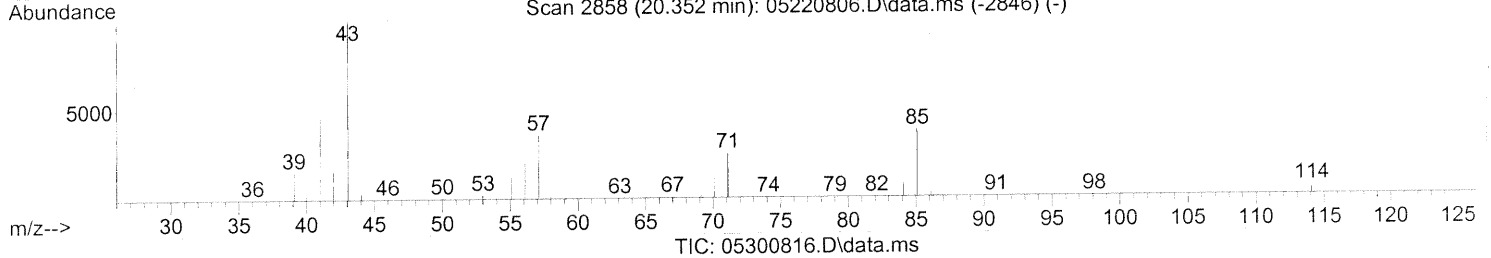
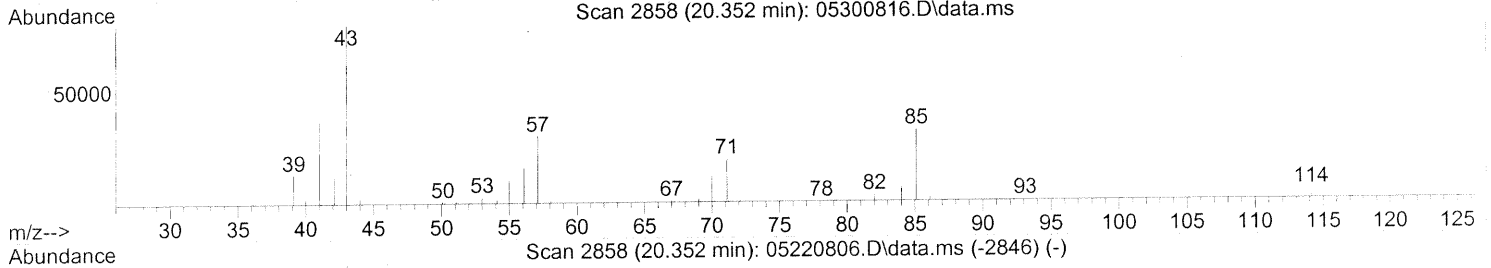
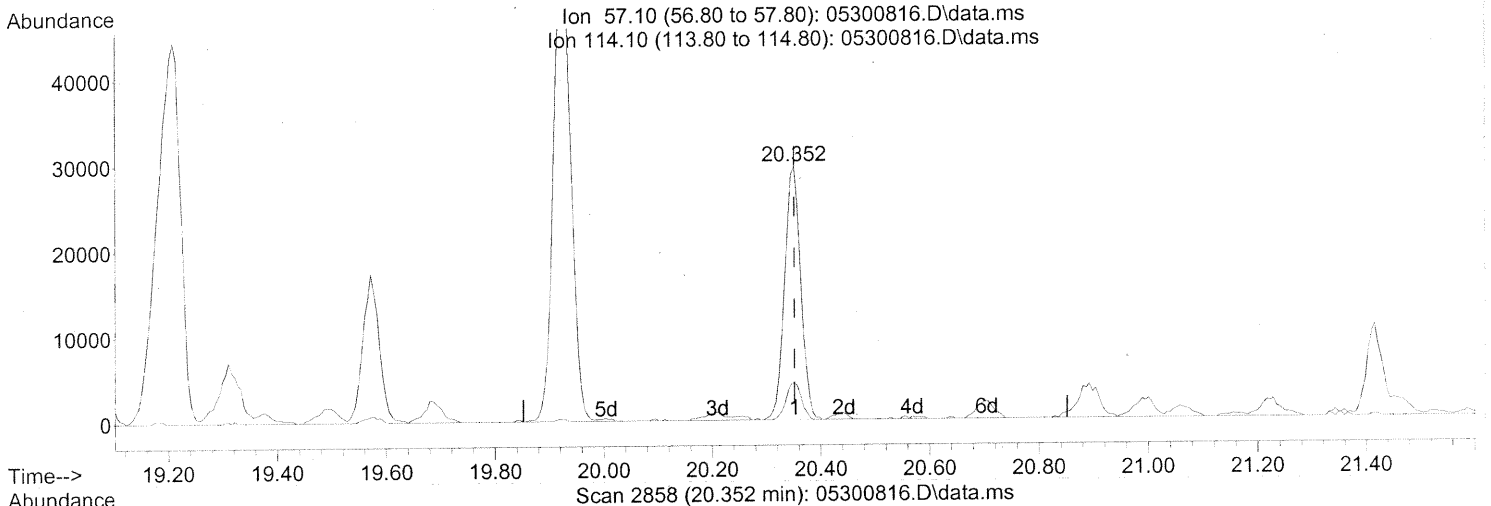
(59) 2-Hexanone (T)  
 19.373min (+0.005) 0.23ng  
 response 12309

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	39.79#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



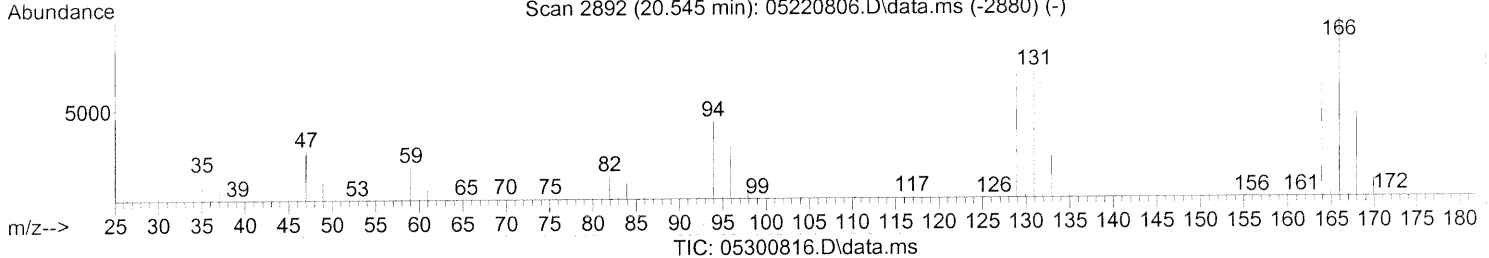
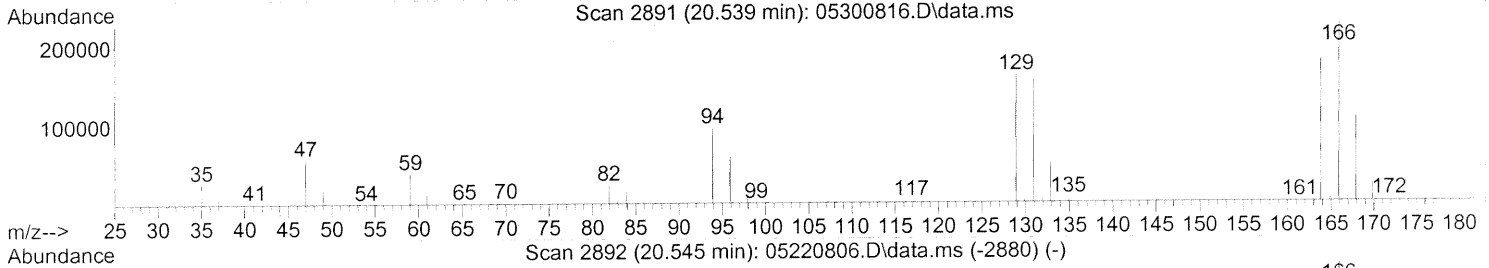
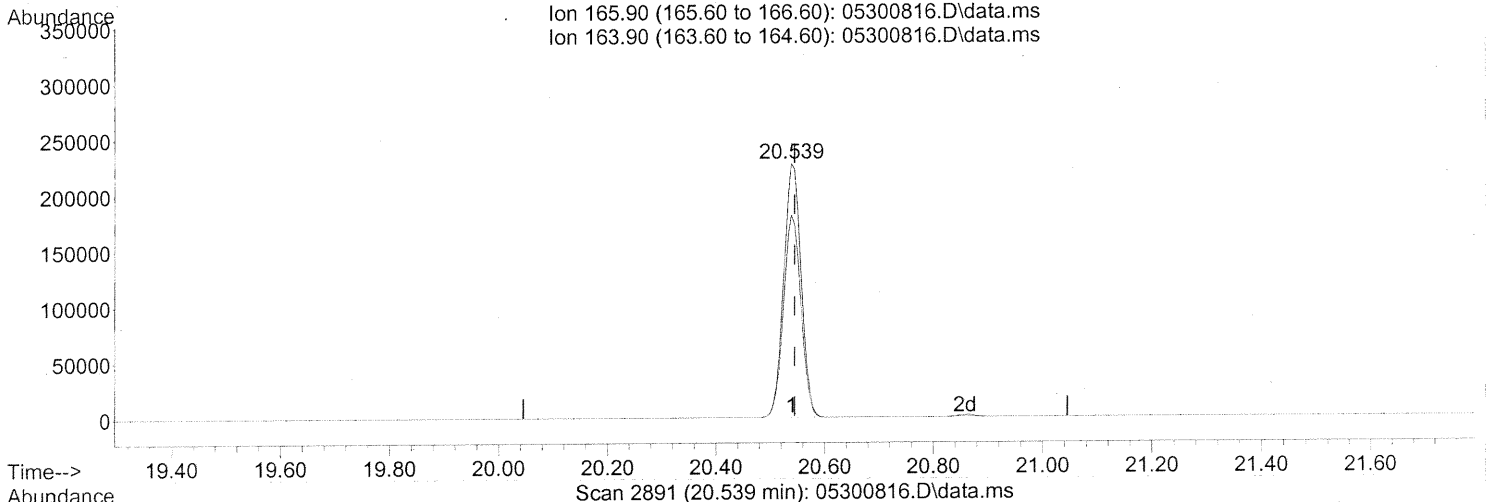
(63) n-Octane (T)  
 20.352min (-0.000) 3.54ng  
 response 61037

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	13.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.539min (-0.006) 21.90ng

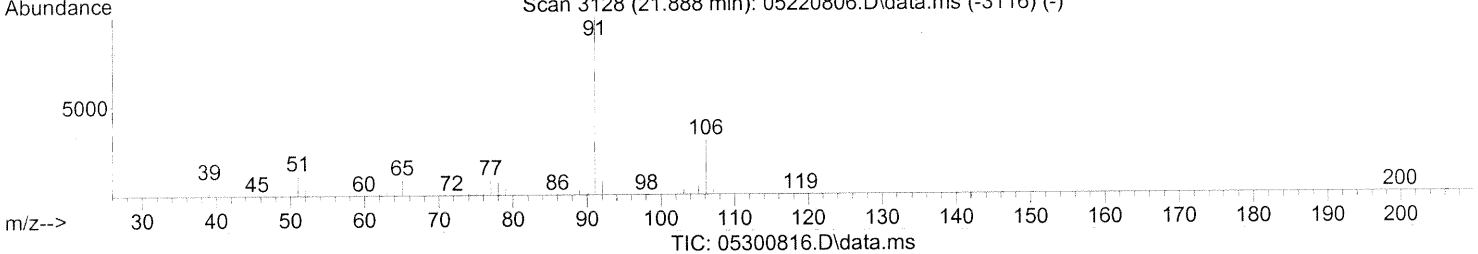
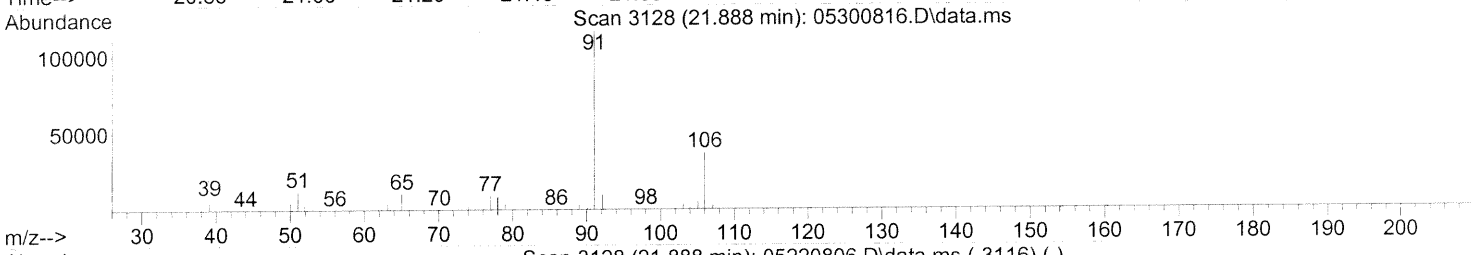
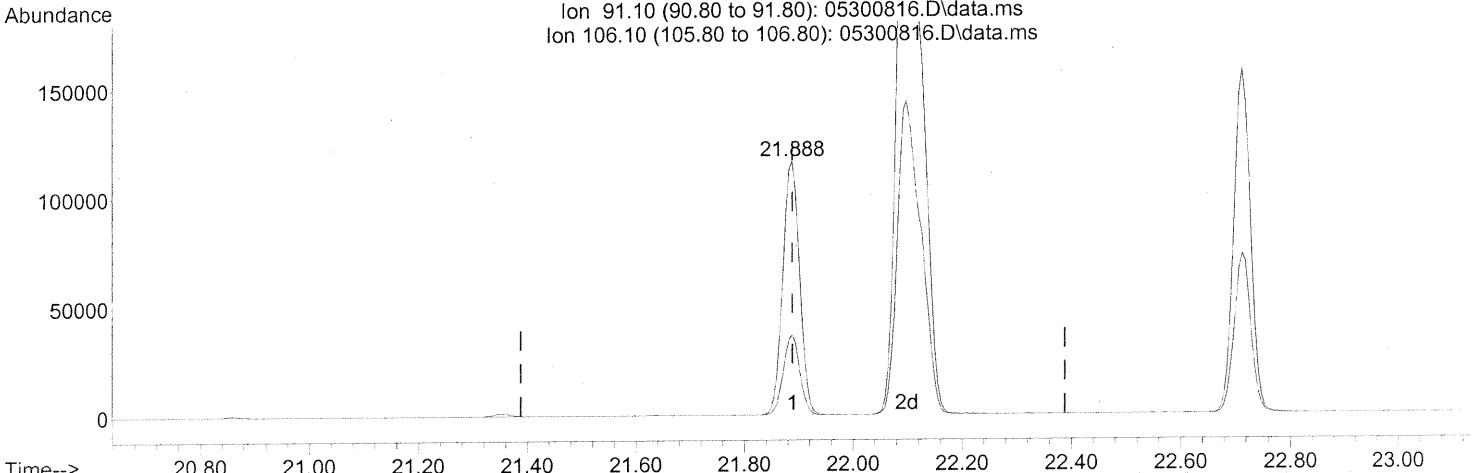
response 505122

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



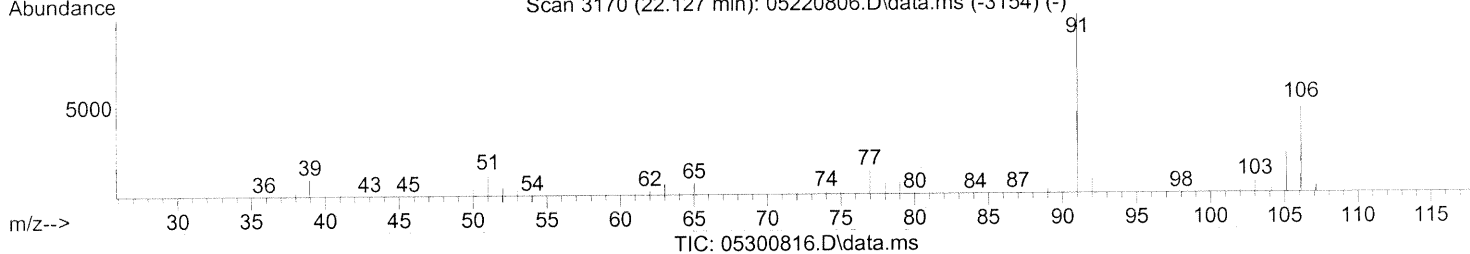
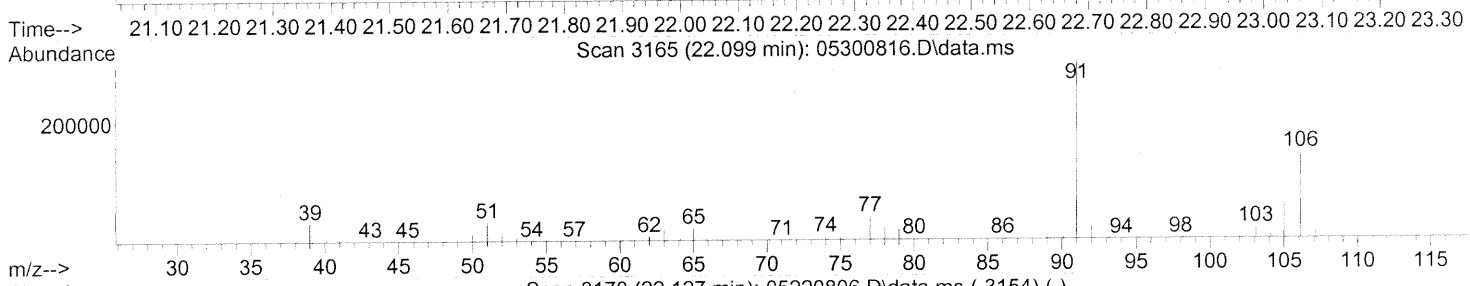
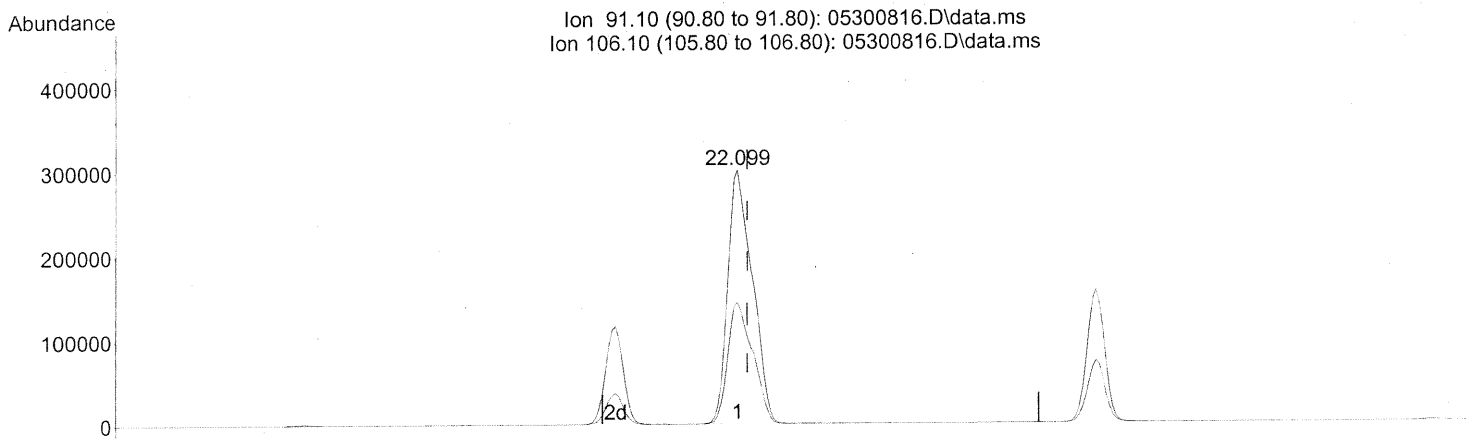
(66) Ethylbenzene (T)  
 21.888min (-0.000) 2.77ng  
 response 247603

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 14.76ng

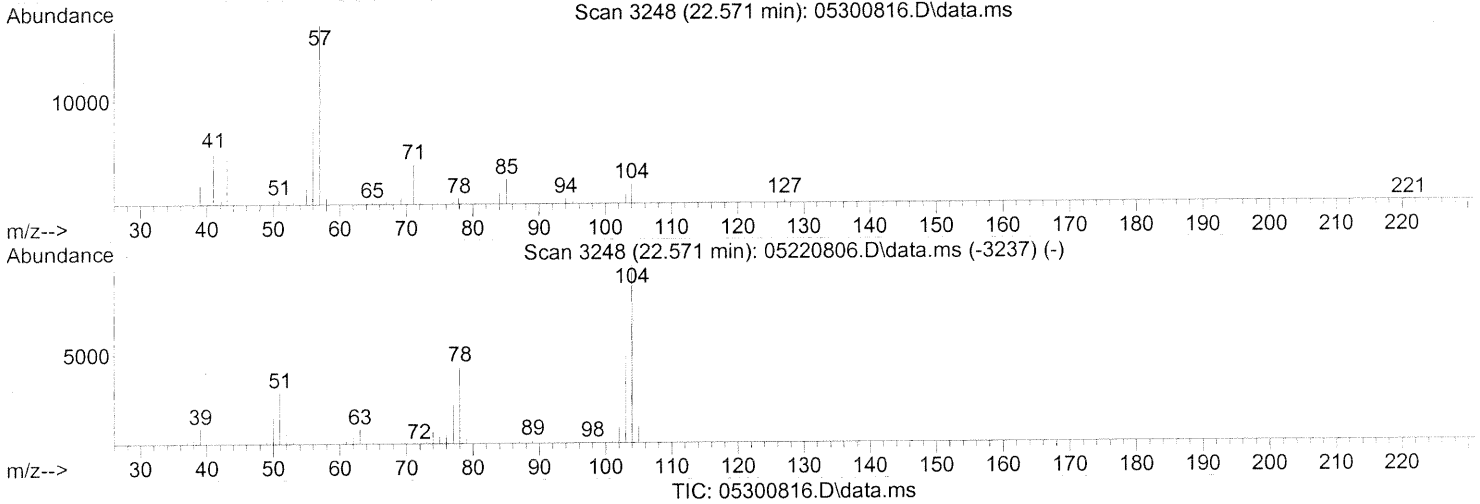
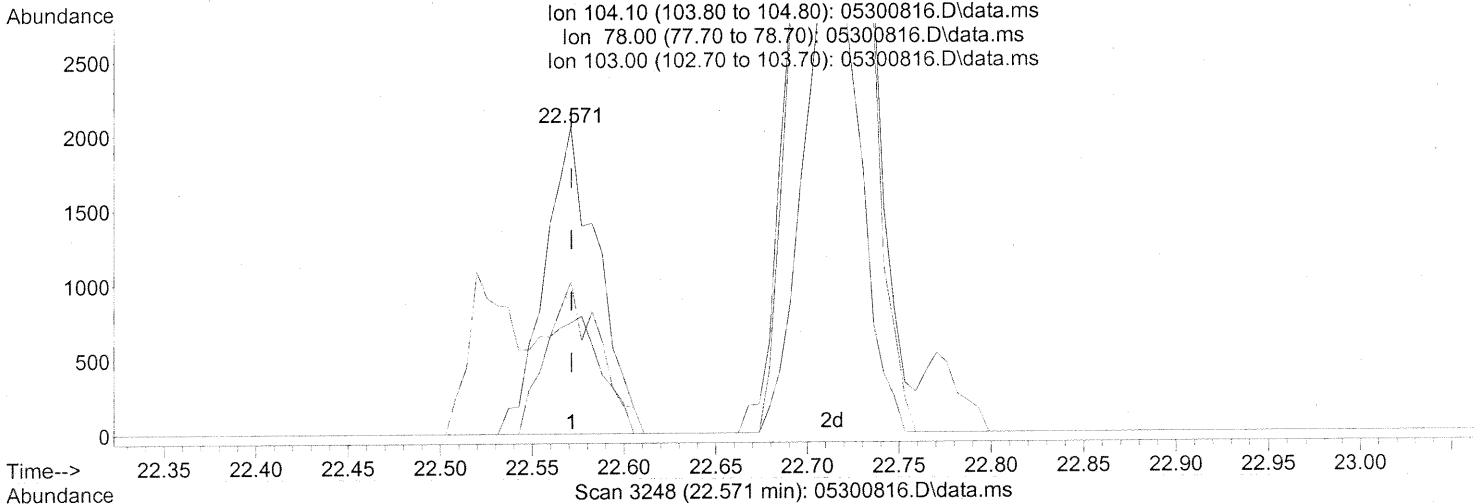
response 882685

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.08ng

response 4129

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	42.31
103.00	47.10	48.73
0.00	0.00	0.00

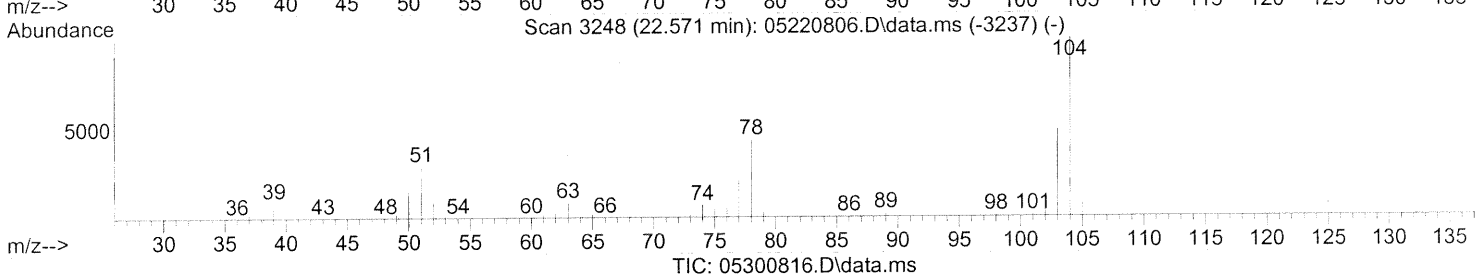
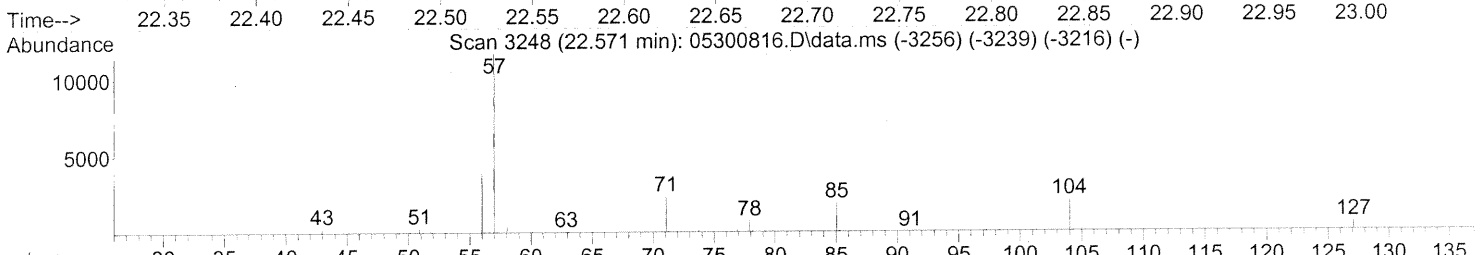
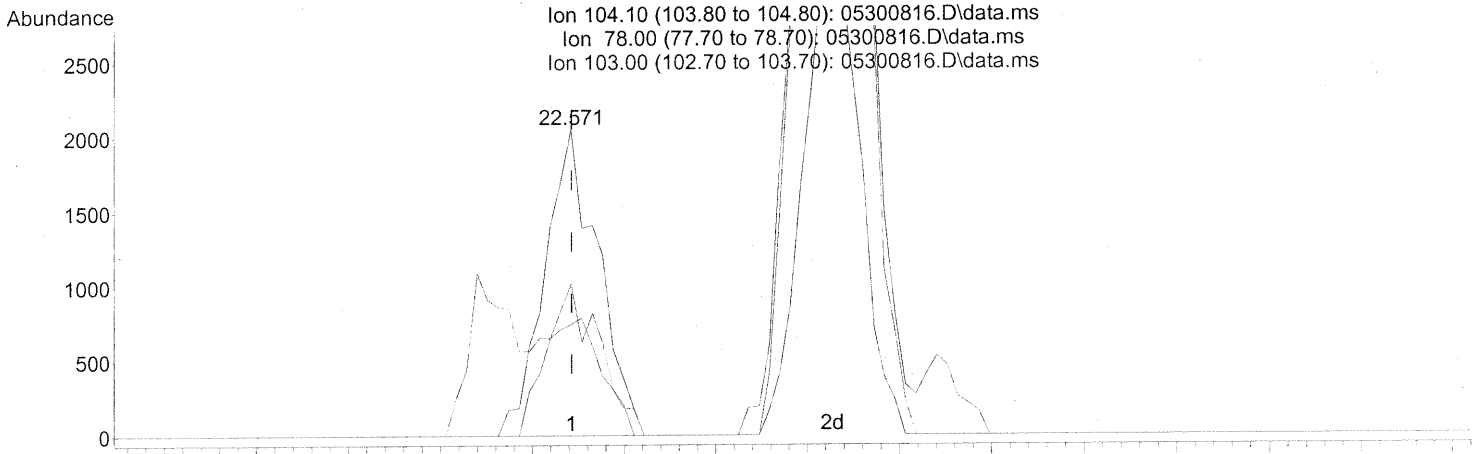
**BEFORE SUBTRACTION**



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.08ng

response 4129

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	42.31
103.00	47.10	48.73
0.00	0.00	0.00

ATFER SUBTRACTION

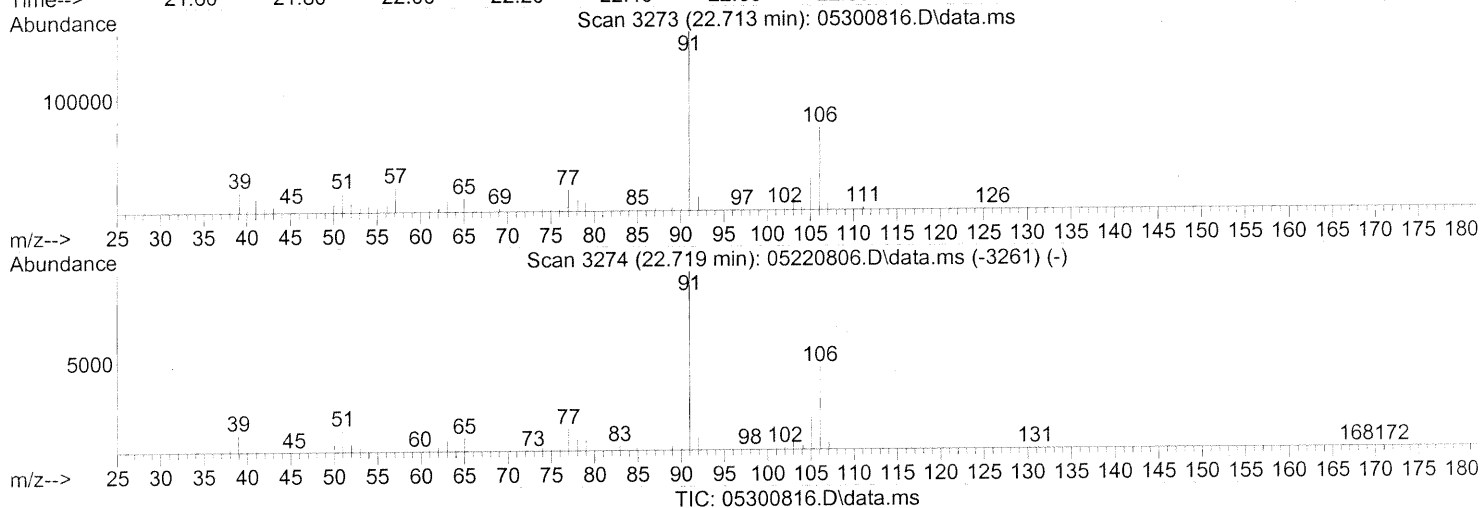
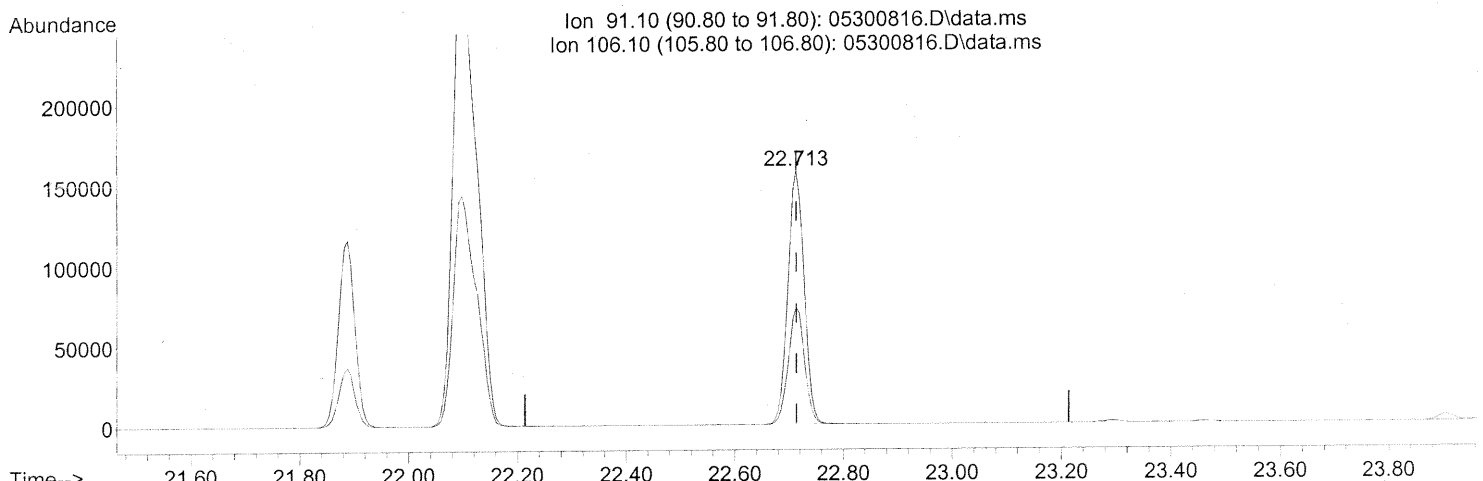
06/04/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.713min (-0.000) 5.13ng

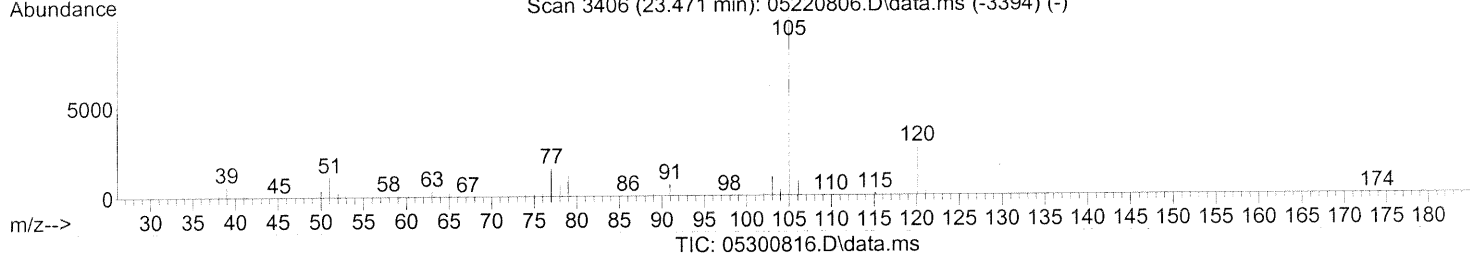
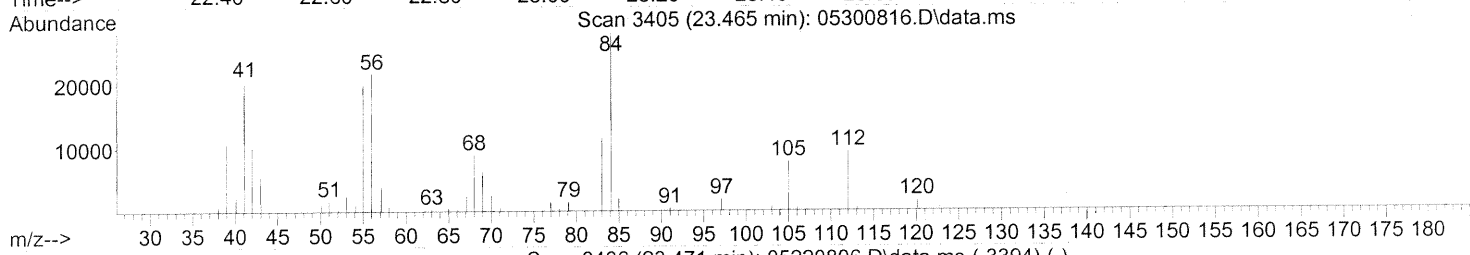
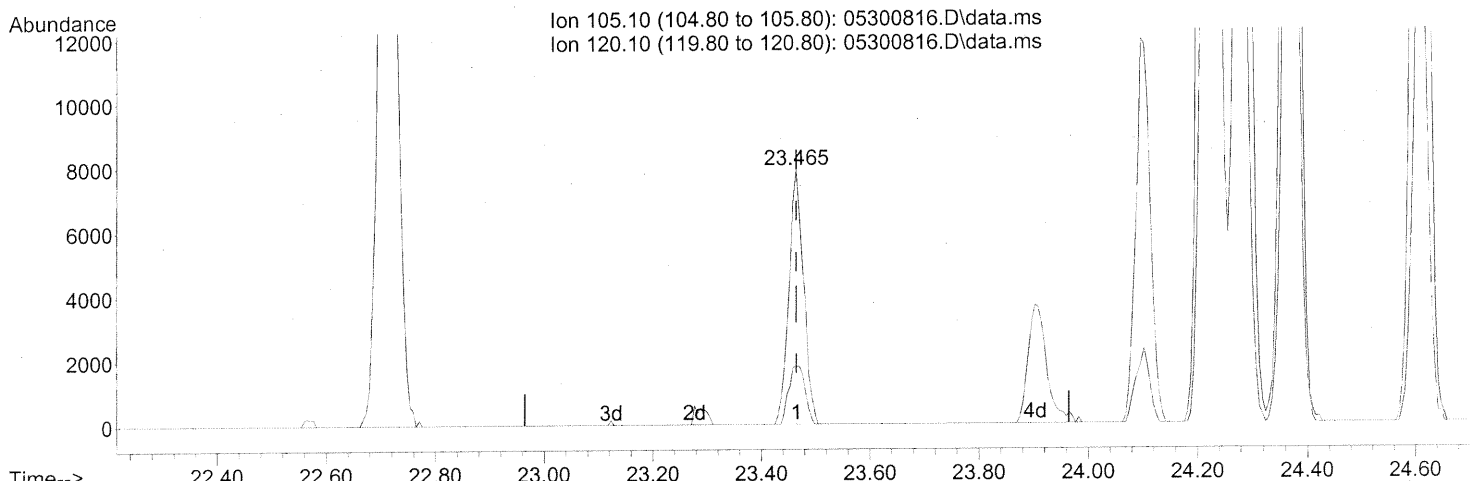
response 330899

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.17ng

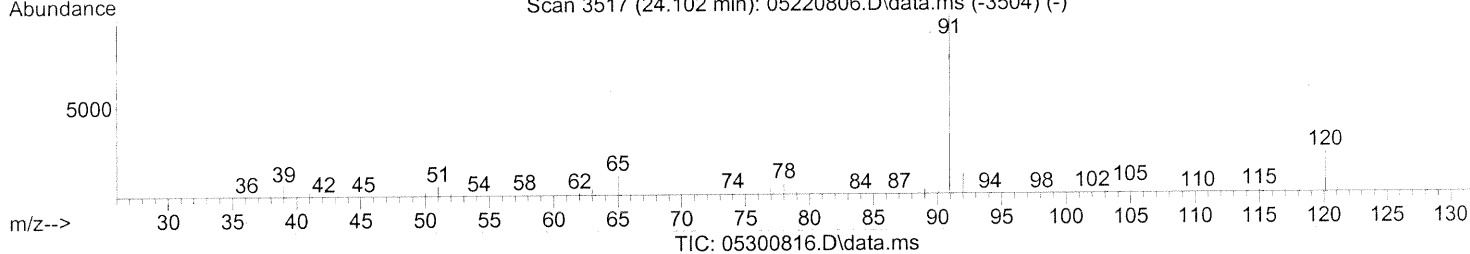
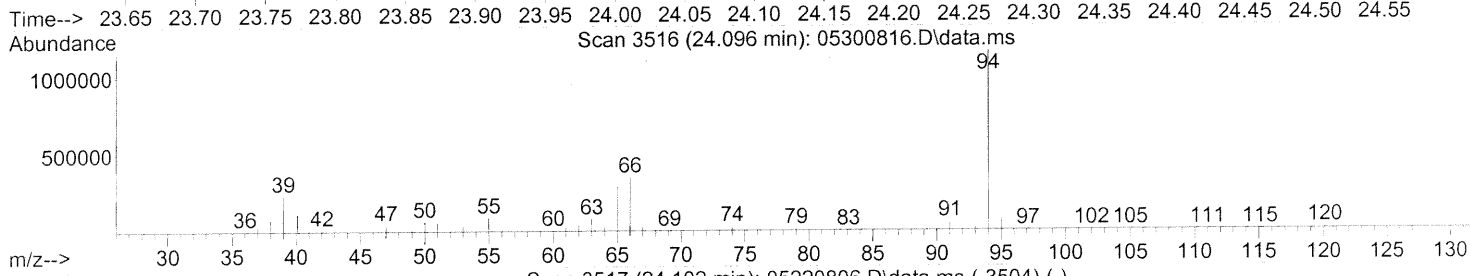
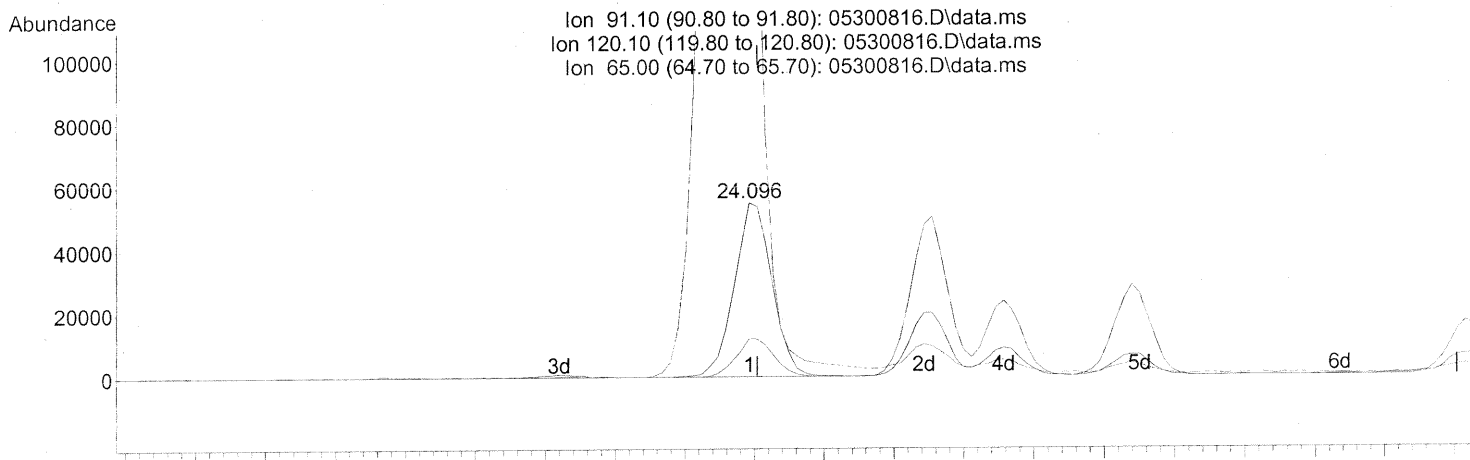
response 14729

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.94ng

response 102583

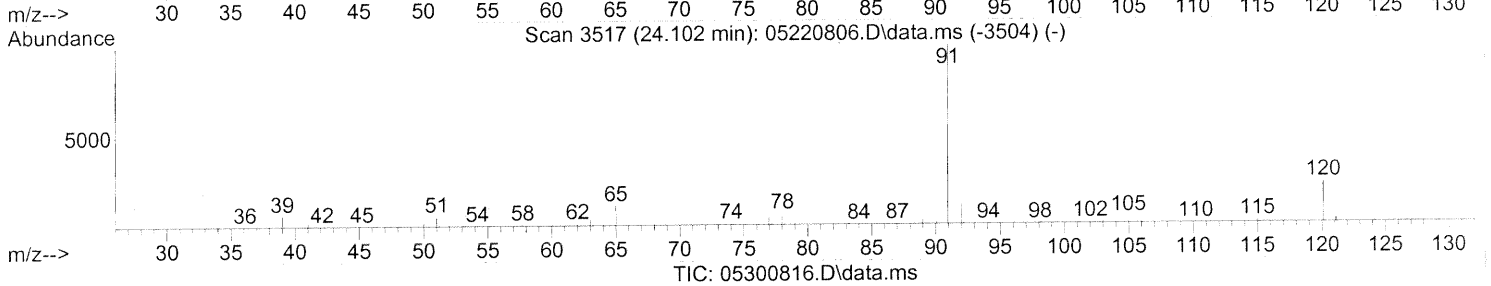
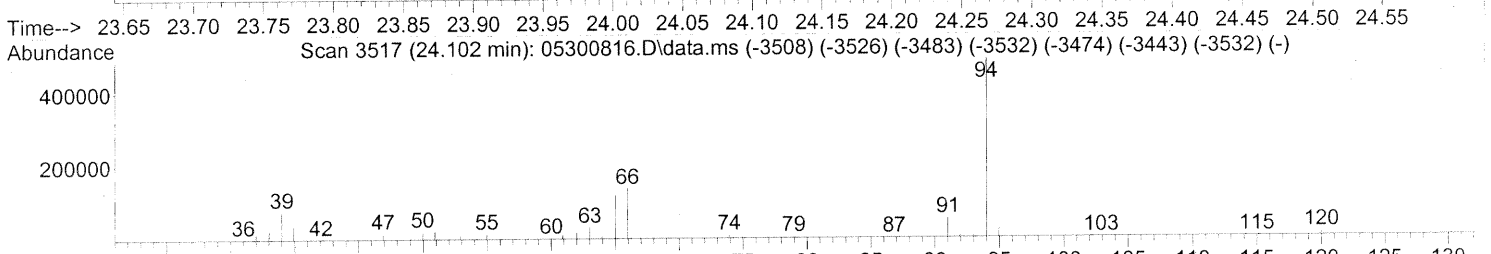
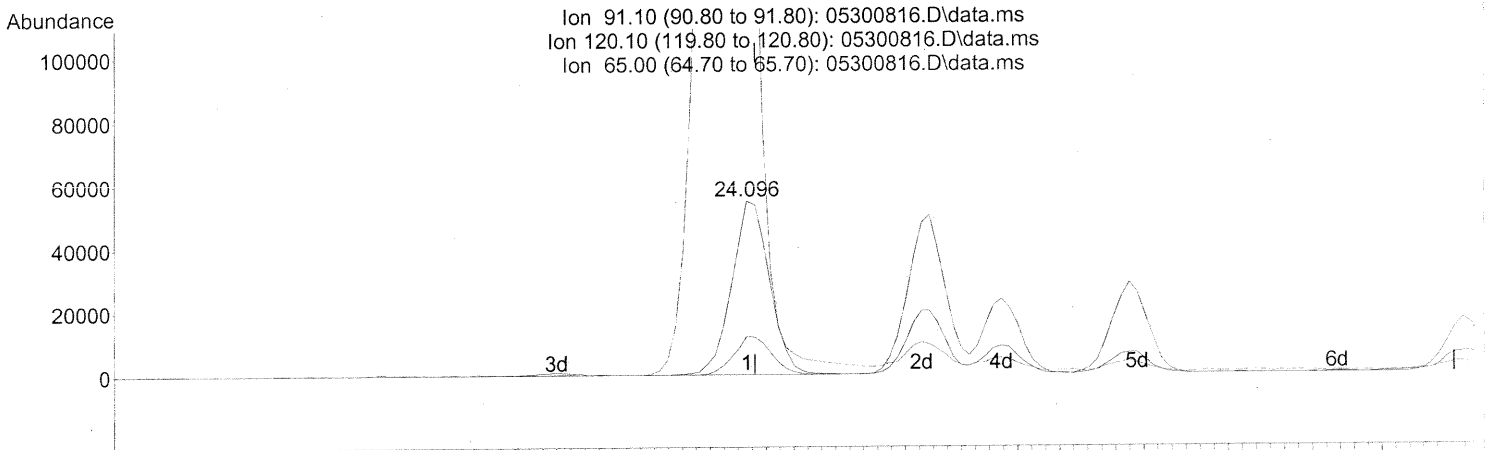
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.63
65.00	11.40	997.70#
0.00	0.00	0.00

**BEFORE SUBTRACTION**

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.096min (-0.006) 0.94ng  
 response 102583

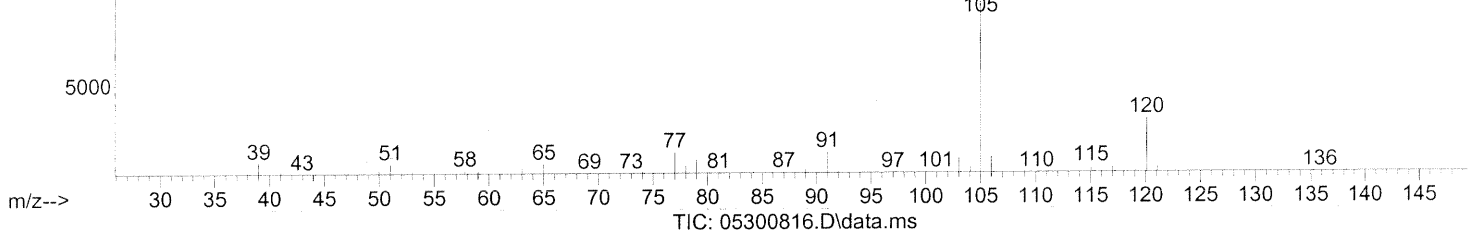
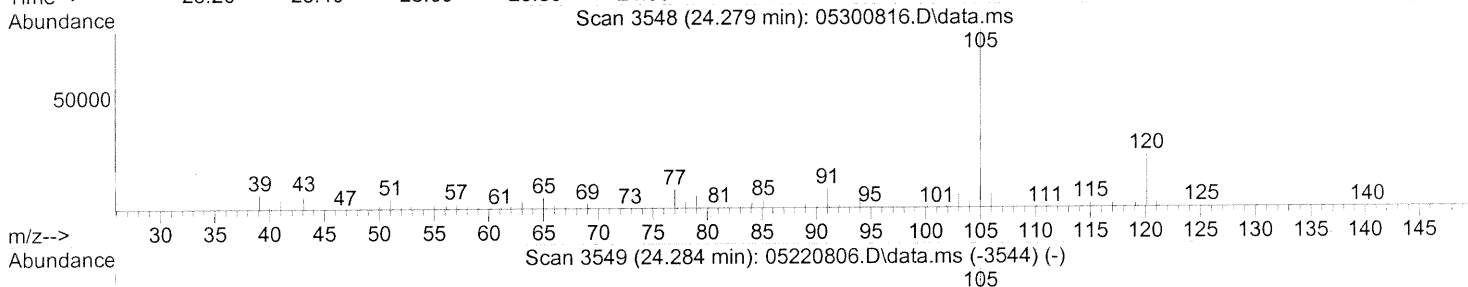
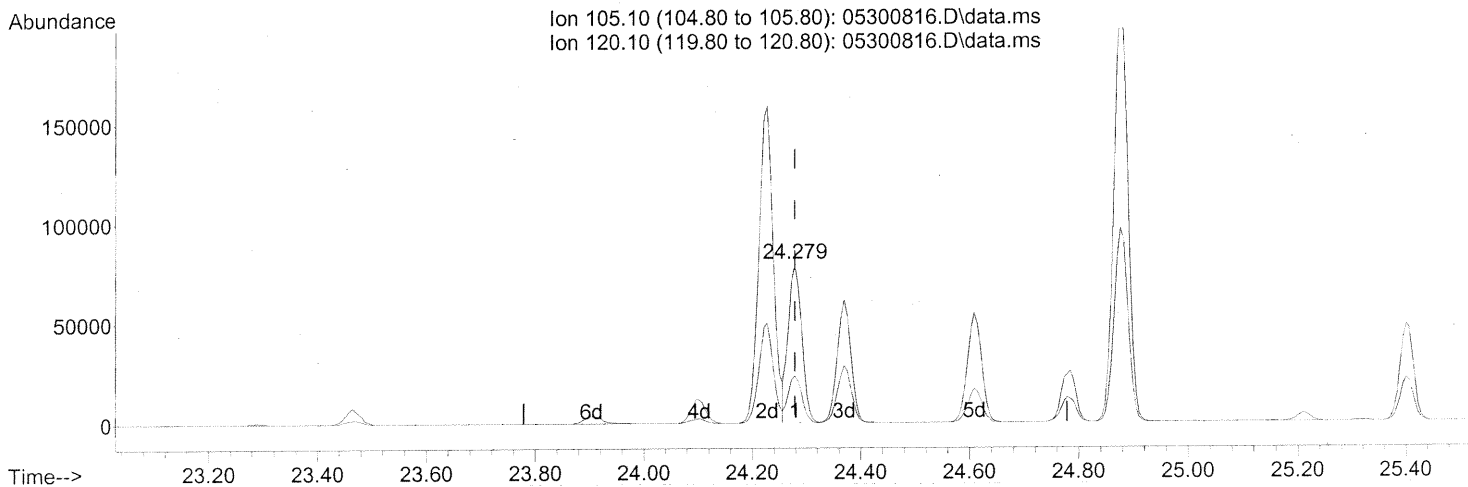
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.63
65.00	11.40	997.70#
0.00	0.00	0.00

AFTER SUBTRACTION  
 P. 6/4/08  
 C. 6/9/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 1.61ng

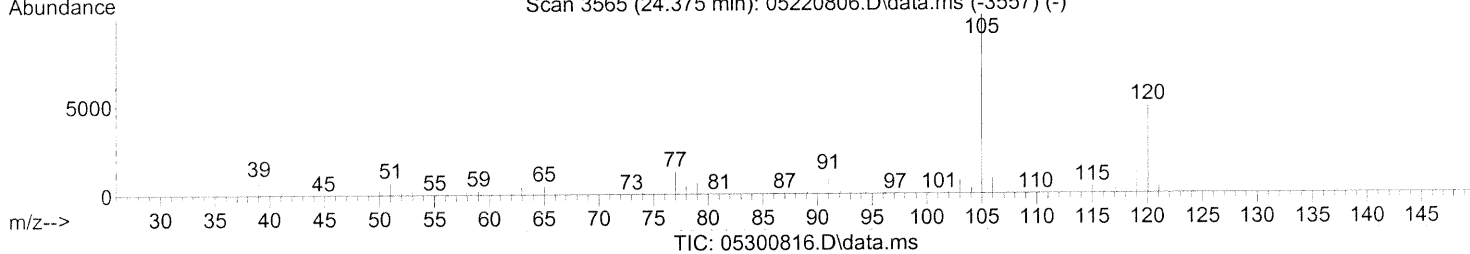
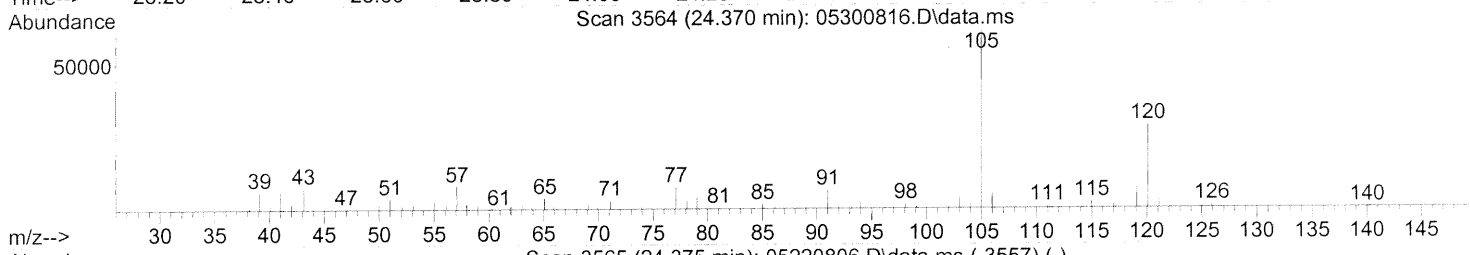
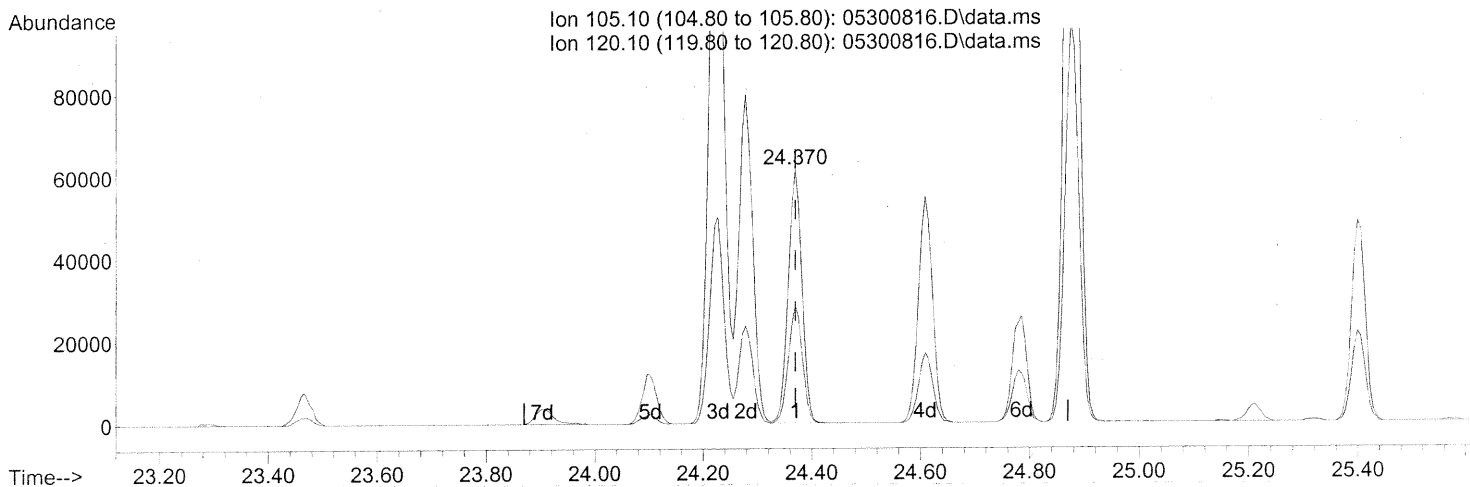
response 137186

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	30.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 1.41ng

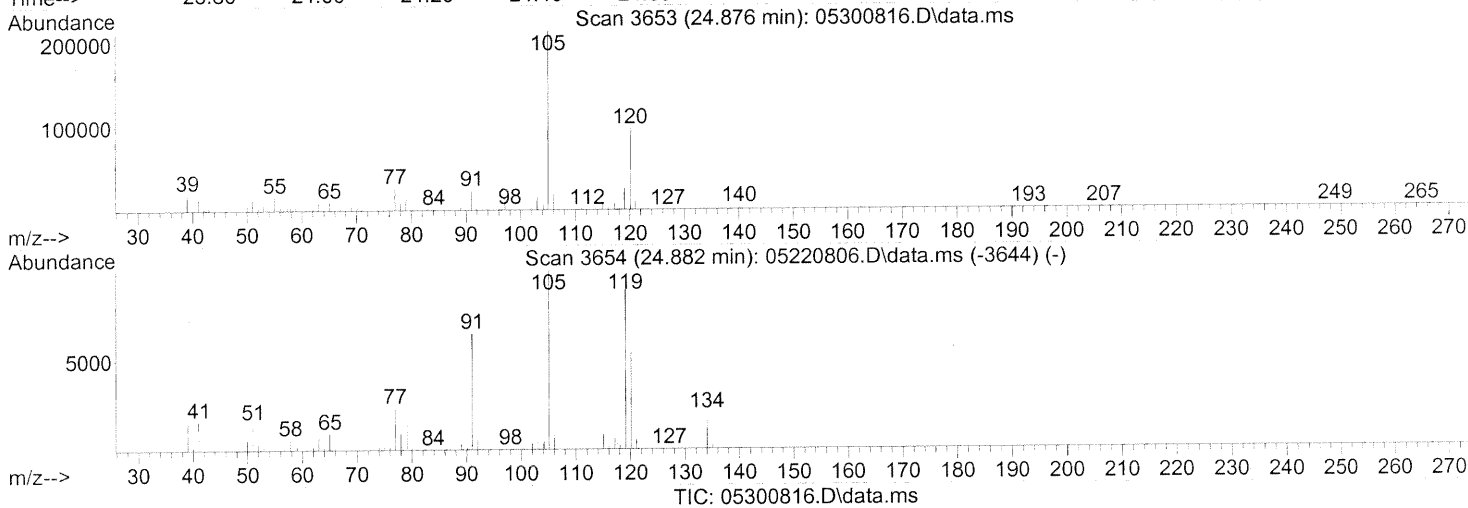
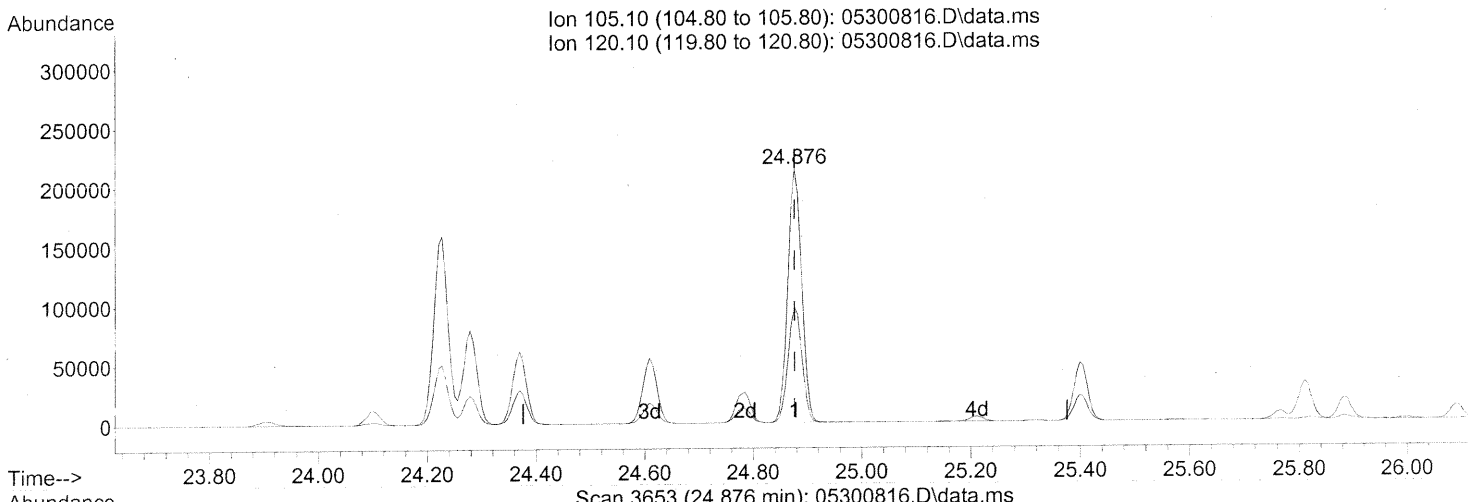
response 108268

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 4.81ng

response 377300

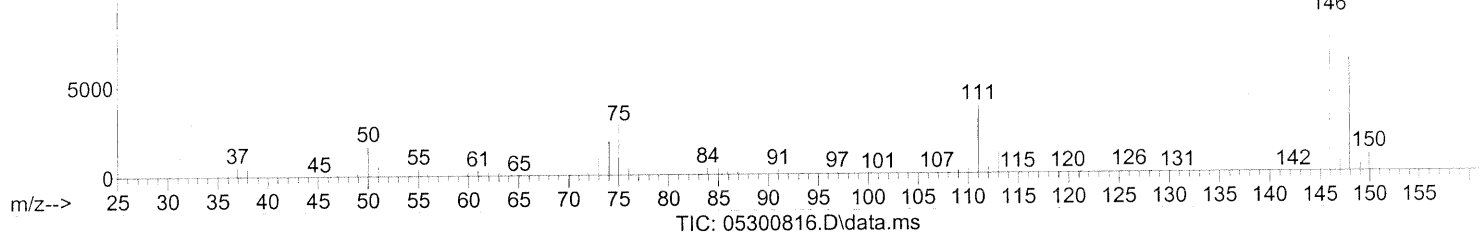
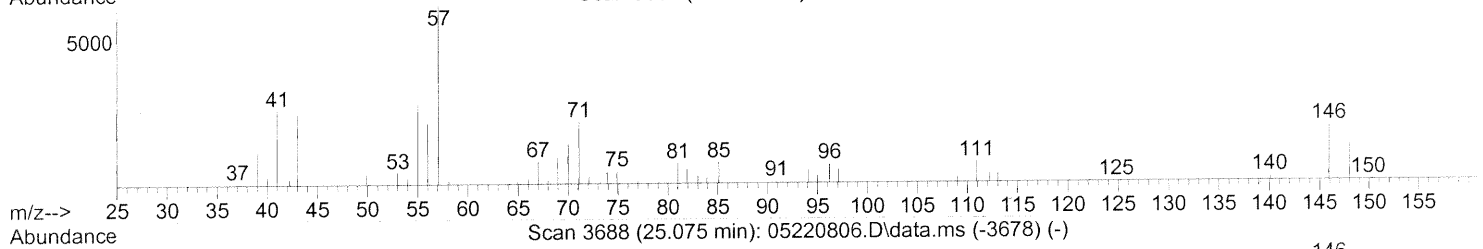
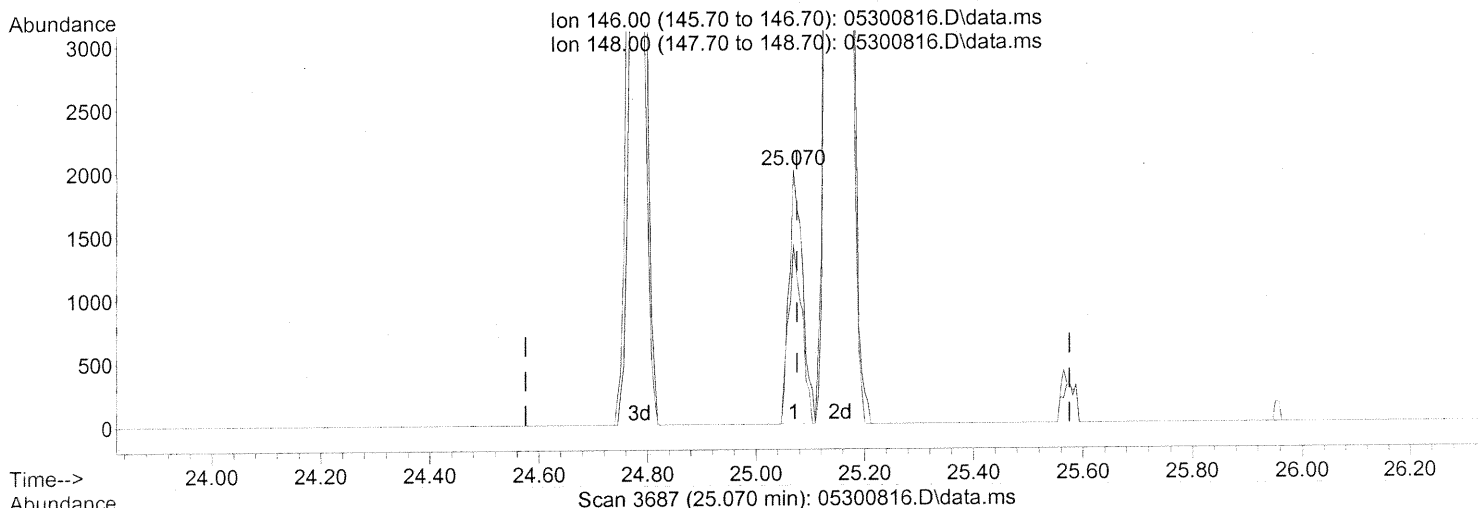
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.74
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.07ng

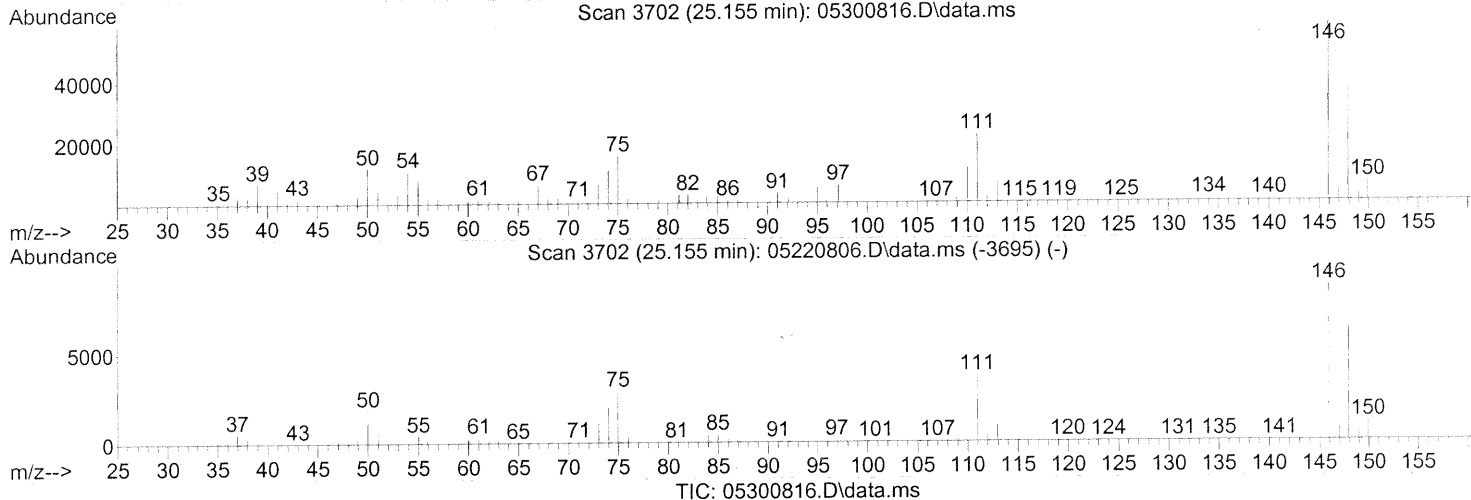
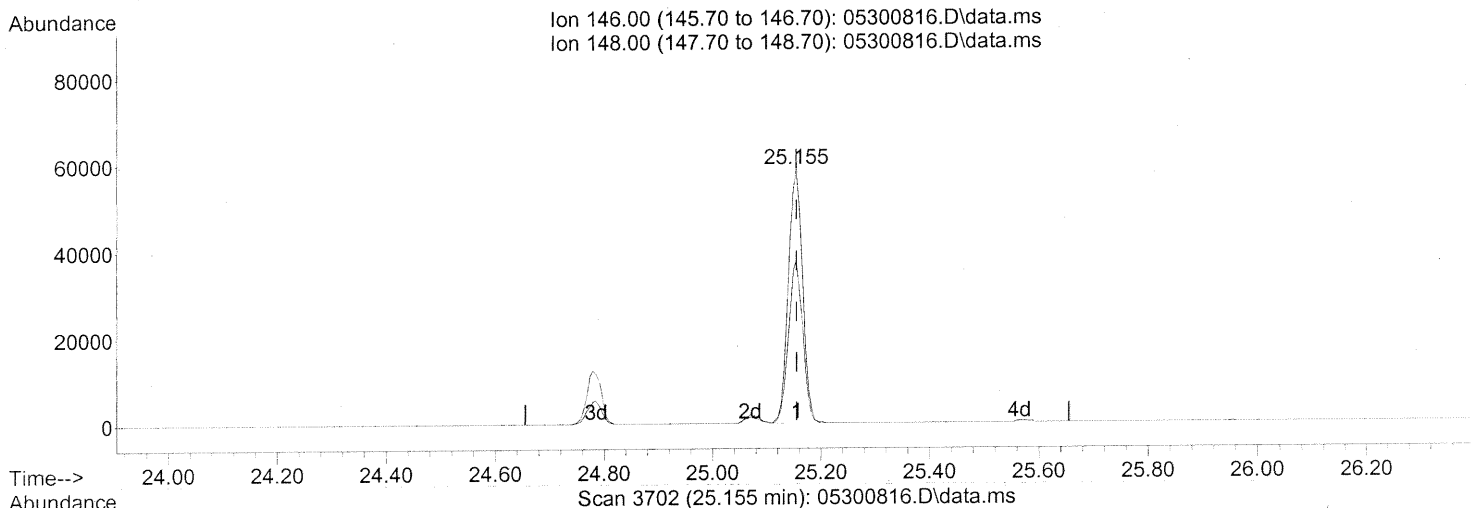
response 3449

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	71.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 2.25ng

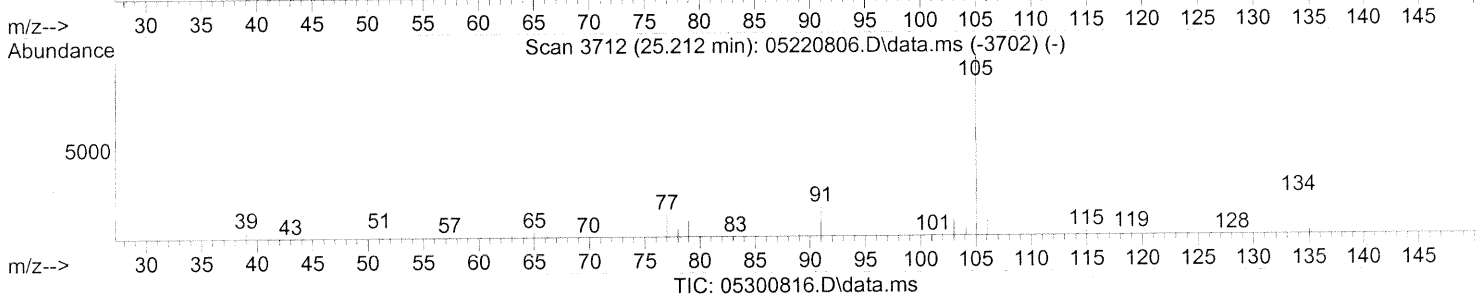
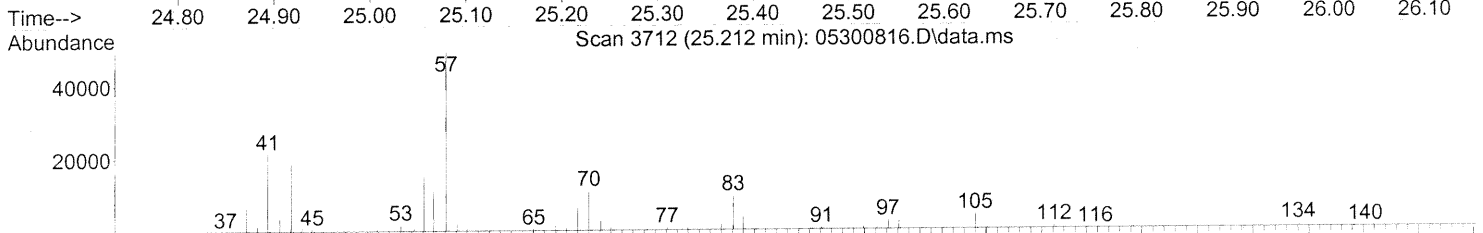
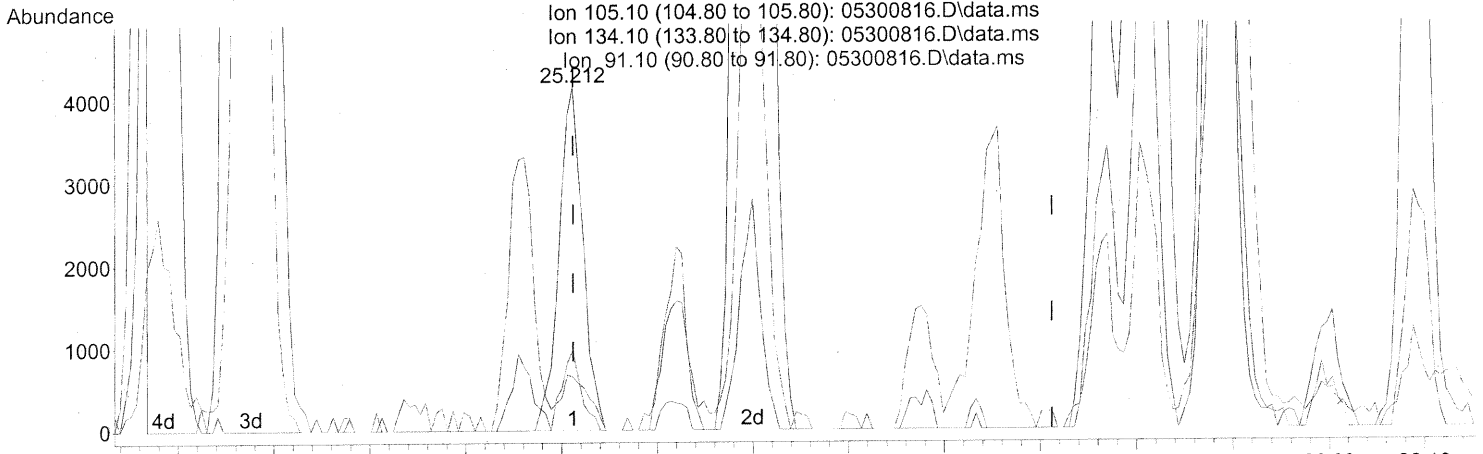
response 107144

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.07ng

response 7200

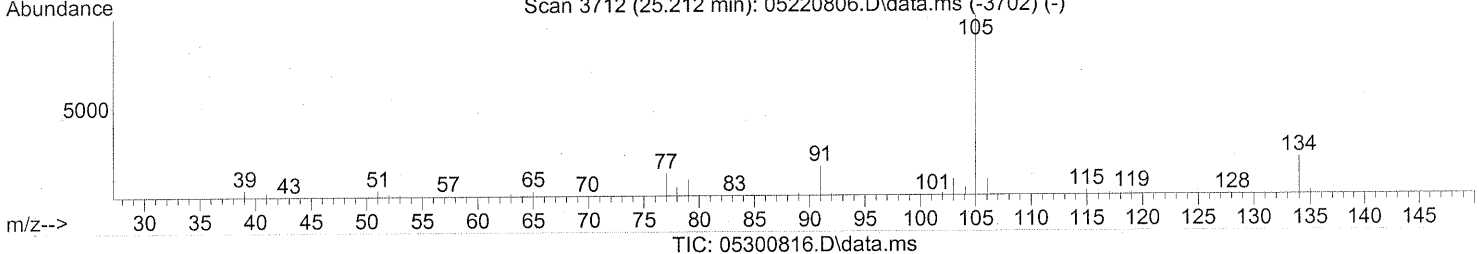
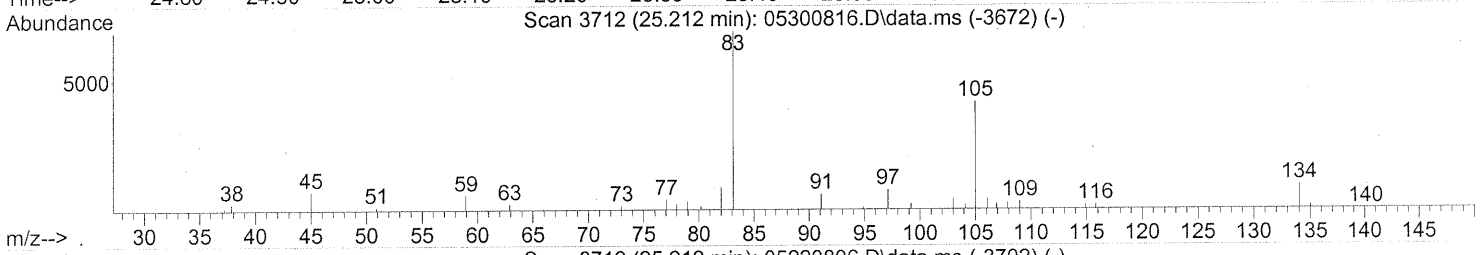
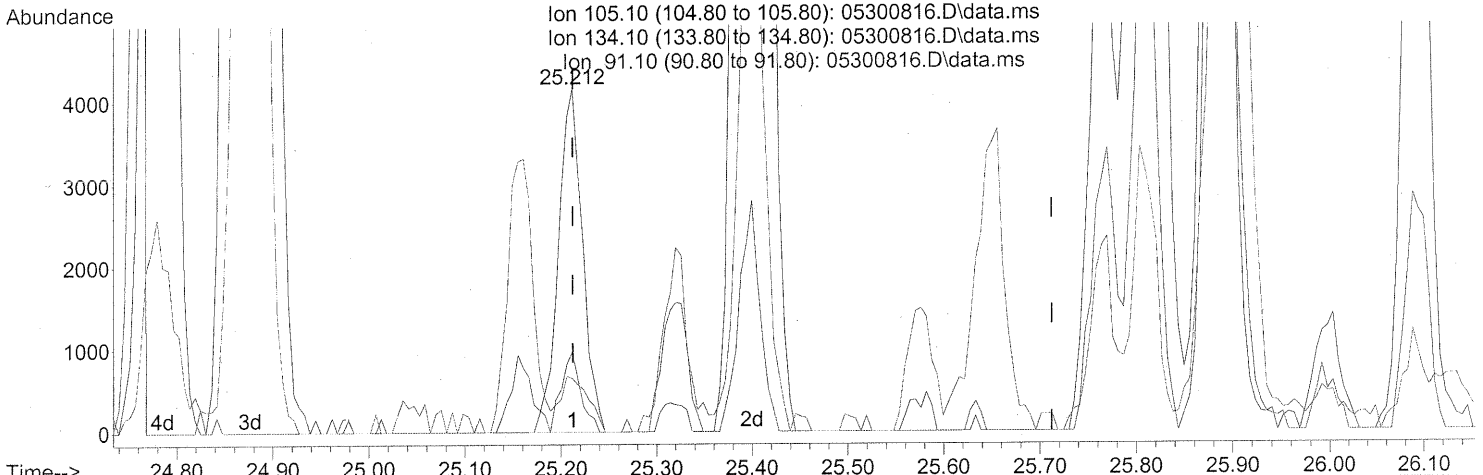
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.00
91.10	14.60	18.93
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.07ng

response 7200

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.00
91.10	14.60	18.93
0.00	0.00	0.00

ATFER SUBTRACTION

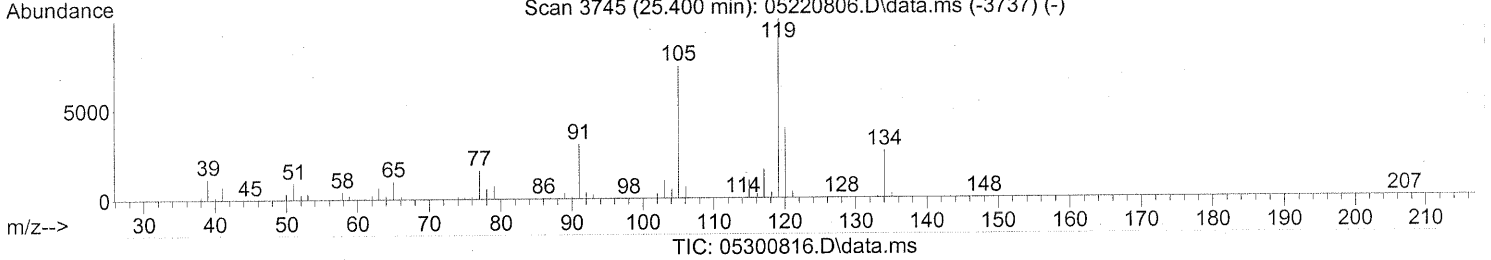
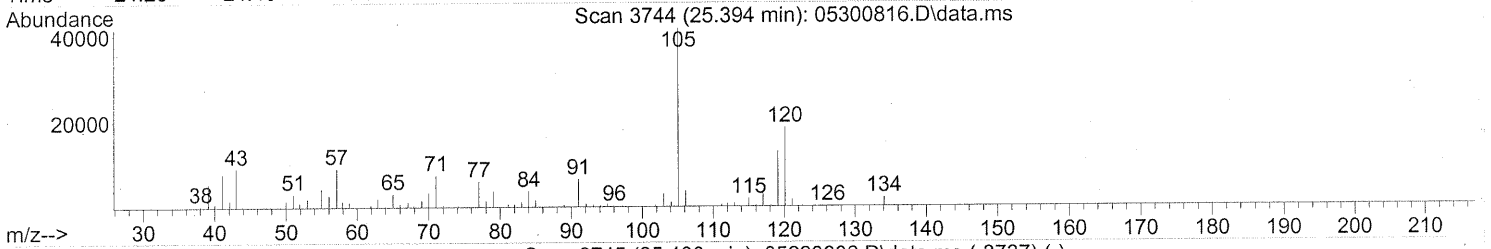
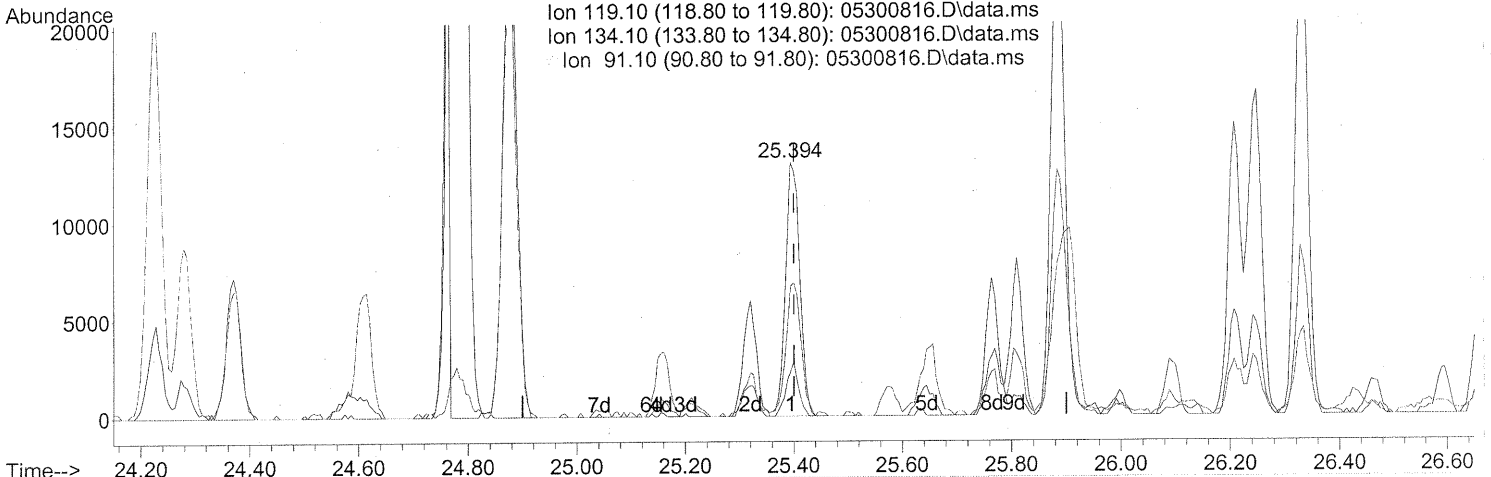
4/6/08

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.29ng

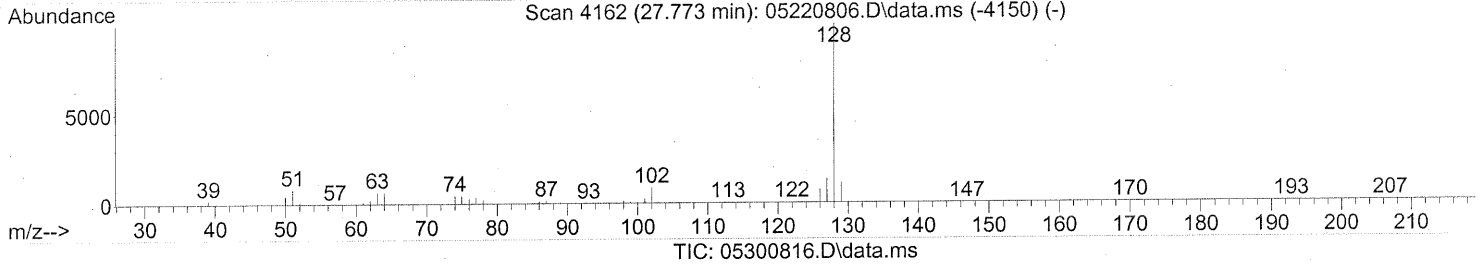
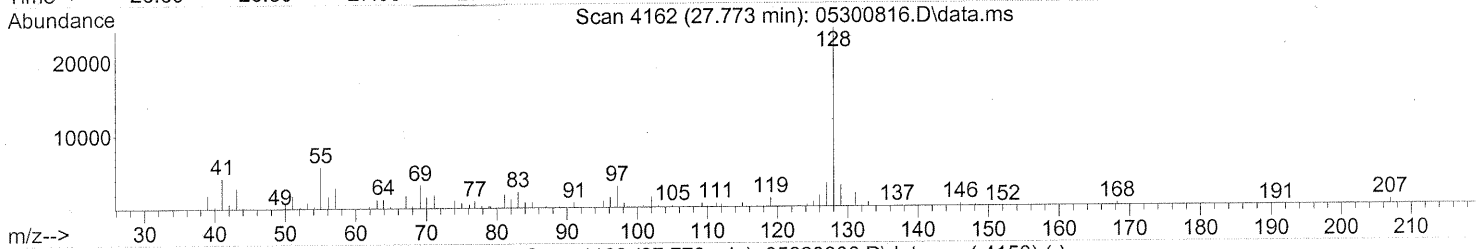
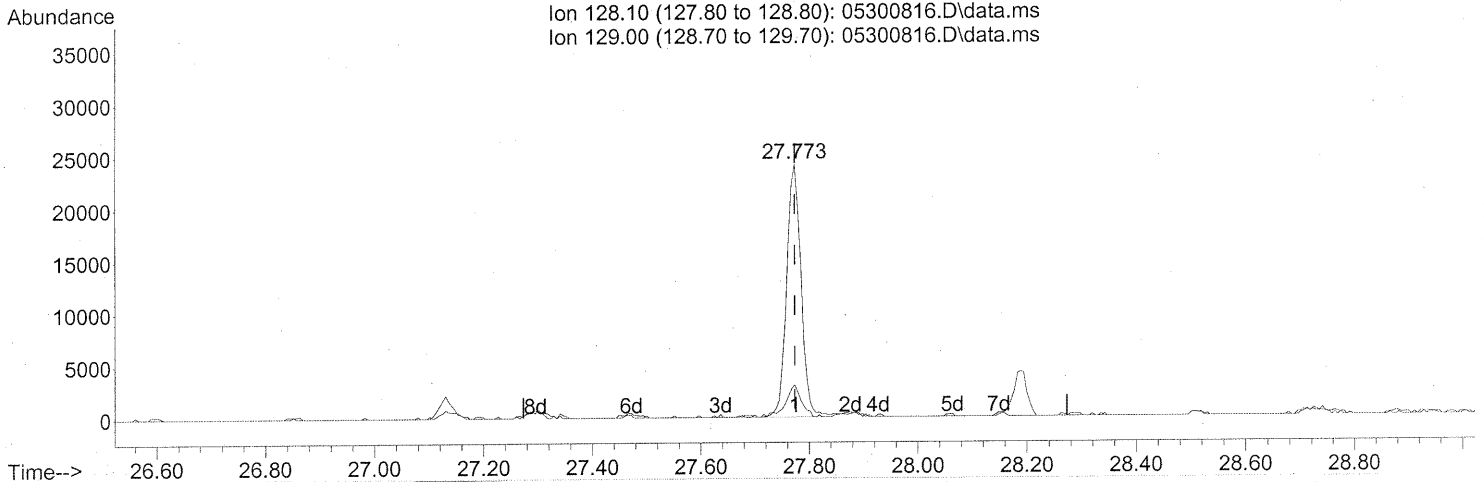
response 23667

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	18.05
91.10	27.10	56.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



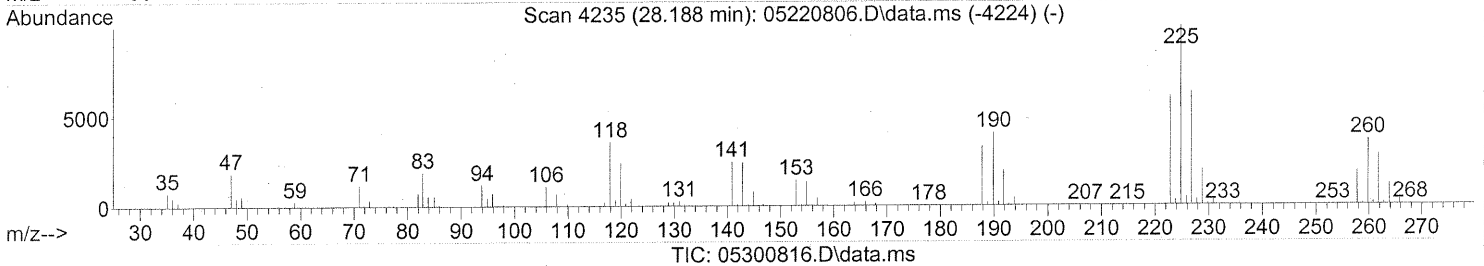
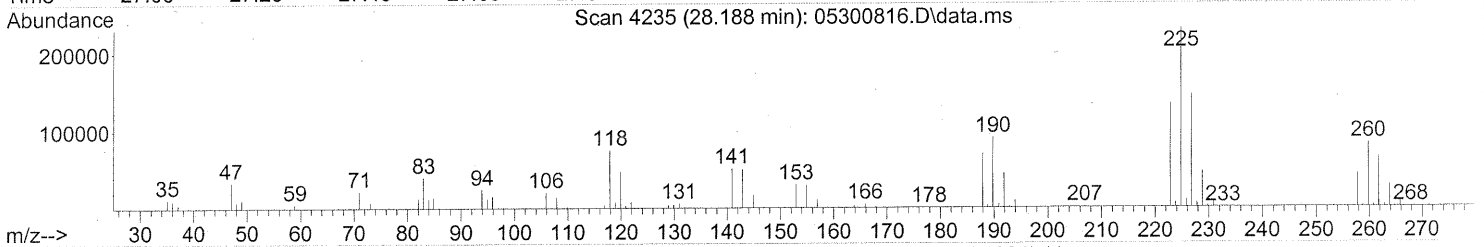
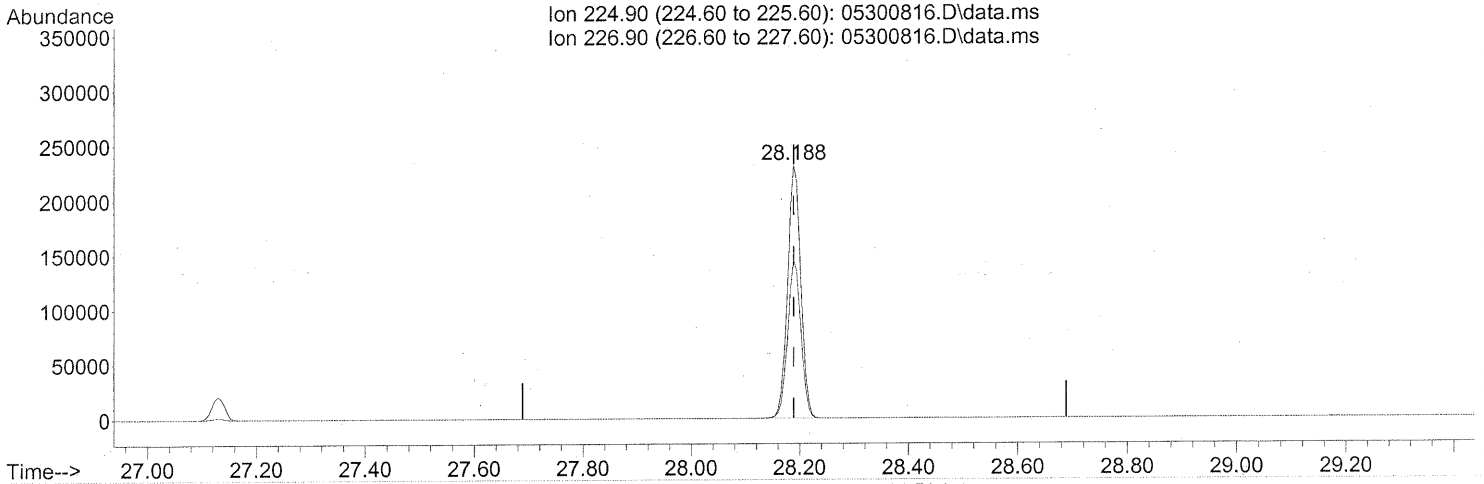
(95) Naphthalene (T)  
 27.773min (-0.000) 0.43ng  
 response 44438

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 15:01:56 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

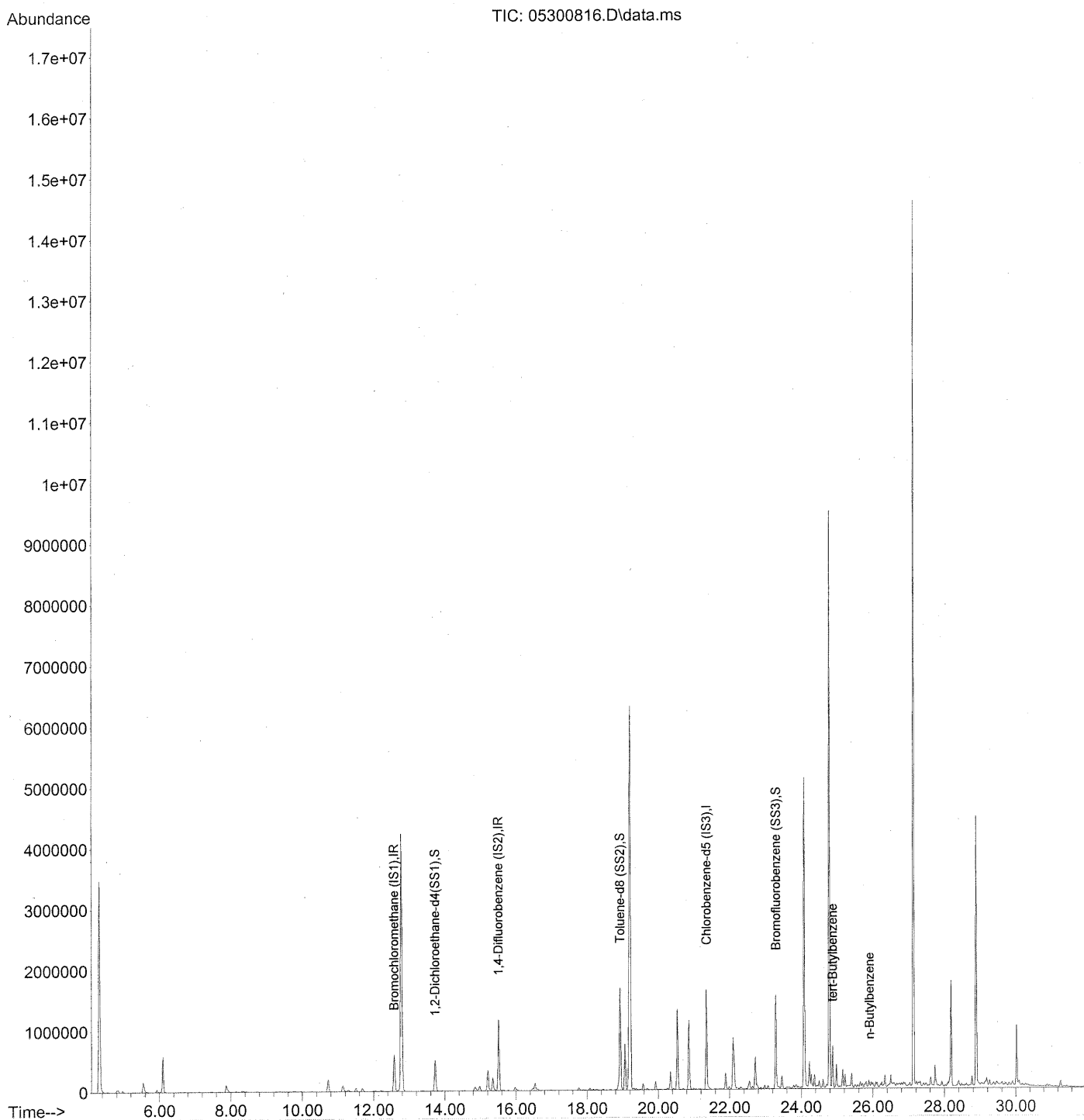
28.188min (-0.000) 17.11ng

response 388117

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	62.87
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5) ✓  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:22:40 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:22:40 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	319590	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1379444	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	638600	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	523121	23.623	ng	-0.03
Spiked Amount	25.000		Recovery	=	94.48%	✓
5) Toluene-d8 (SS2)	18.93	98	1432875	24.984	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.92%	✓
6) Bromofluorobenzene (SS3)	23.29	174	592179	25.391	ng	0.00
Spiked Amount	25.000		Recovery	=	101.56%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	45876	<del>0.612</del> ng	#	54
8) n-Butylbenzene	25.91	91	27017	0.326	ng	# 61

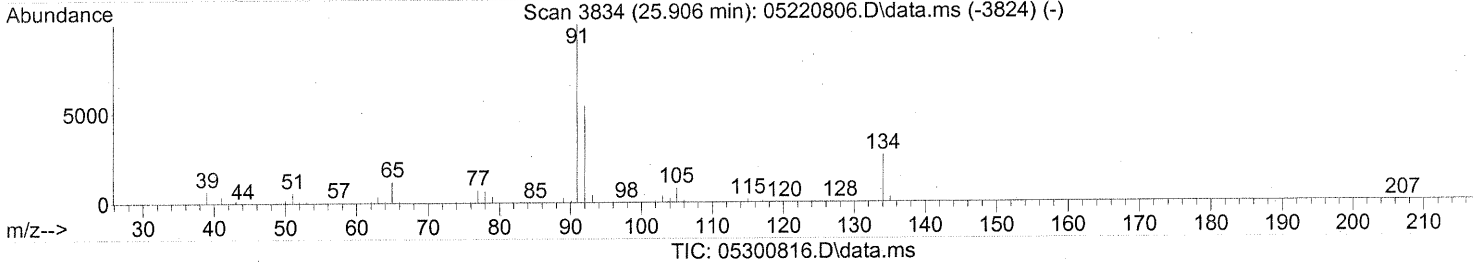
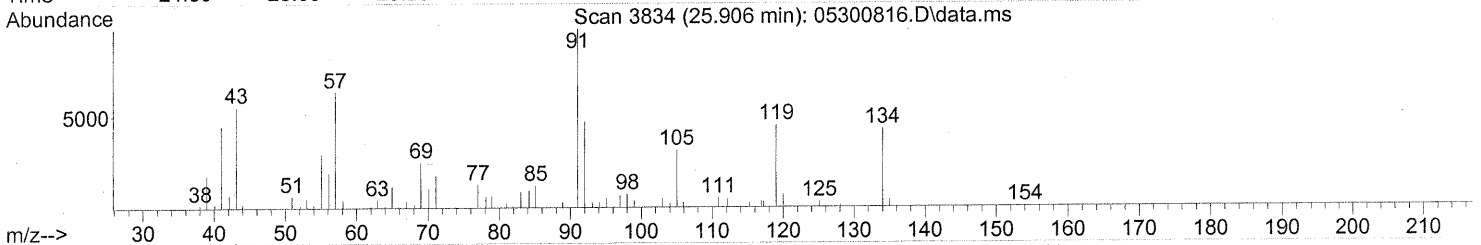
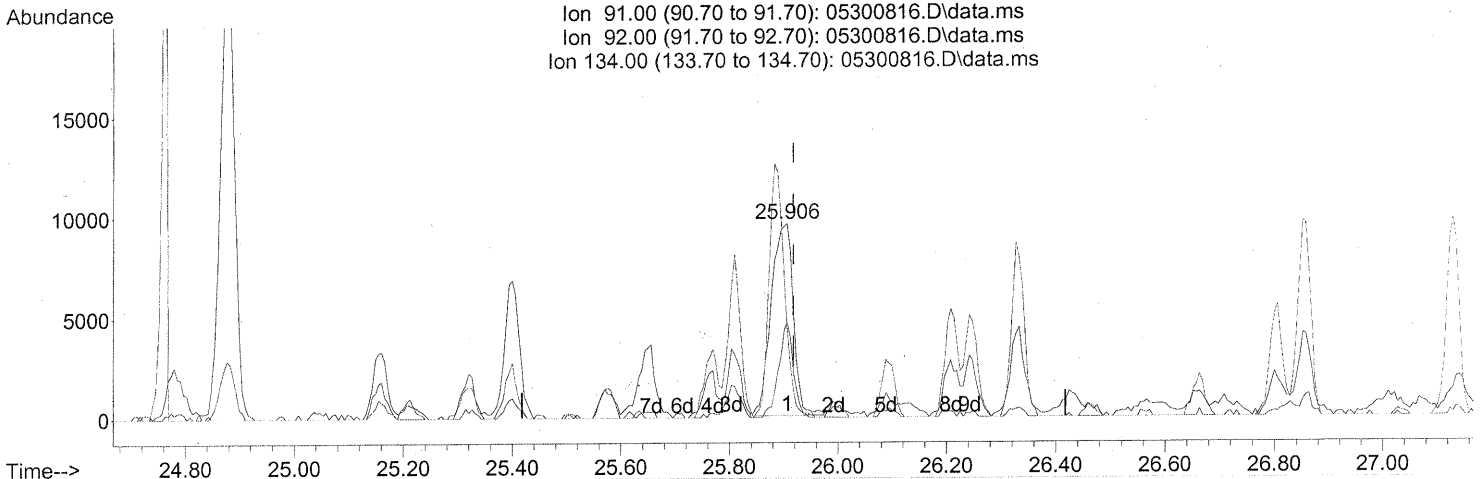
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Fac/00/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300816.D  
 Acq On : 30 May 2008 9:51 pm  
 Operator : WA  
 Sample : P0801548-001 (500ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:22:40 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

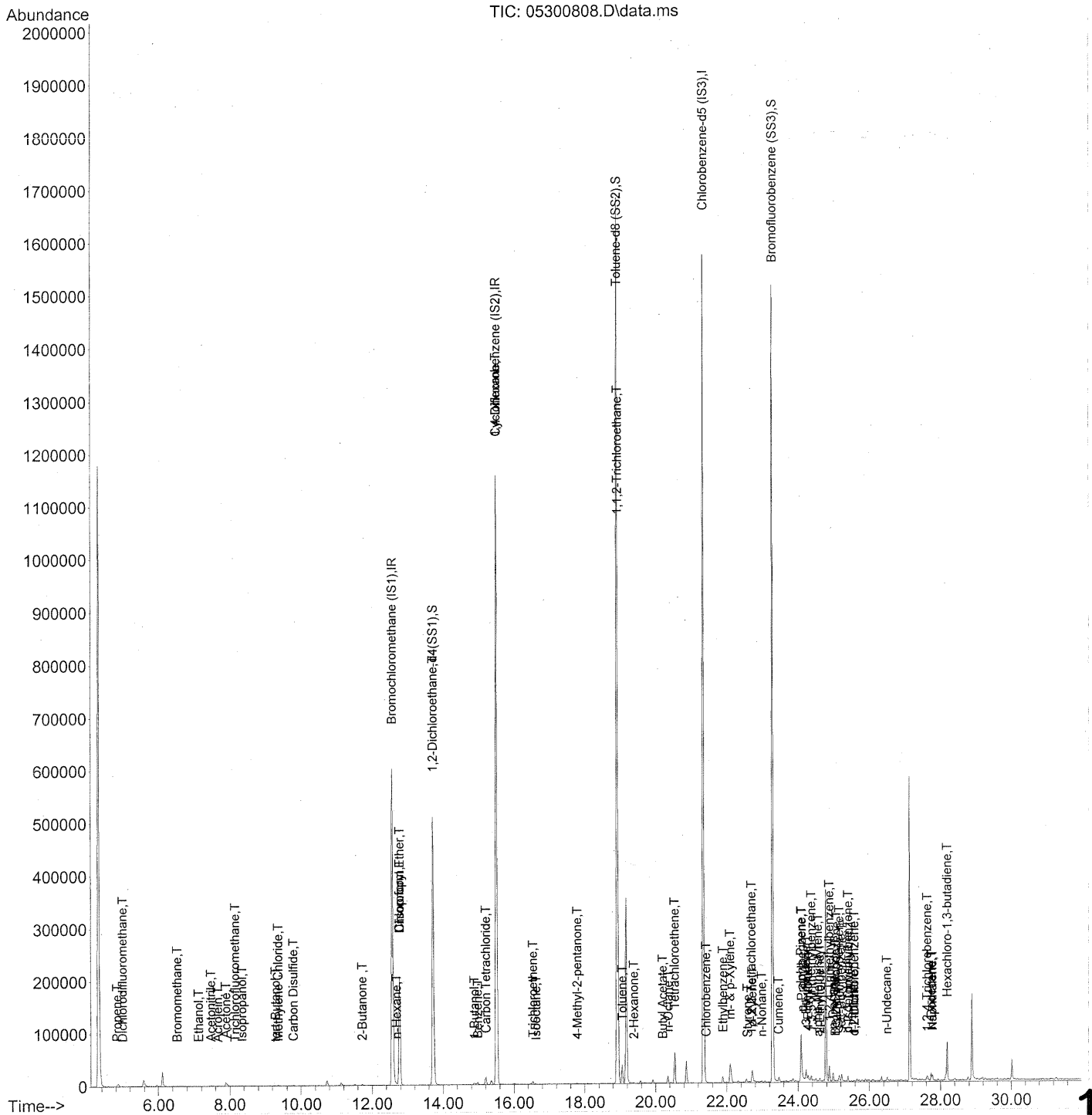
25.906min (-0.011) 0.33ng

response 27017

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	32.50#
134.00	28.80	0.00#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300808.D  
 Acq On : 30 May 2008 13:37  
 Operator : WA  
 Sample : P0801548-001 Dil (25ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5) ✓  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:54:39 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300808.D  
 Acq On : 30 May 2008 13:37  
 Operator : WA  
 Sample : P0801548-001 Dil (25ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:54:39 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	317861	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1360977	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	617036	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	525523	23.861	ng	-0.01
Spiked Amount	25.000		Recovery	=	95.44%	
57) Toluene-d8 (SS2)	18.92	98	1403580	25.328	ng	0.00
Spiked Amount	25.000		Recovery	=	101.32%	
73) Bromofluorobenzene (SS3)	23.29	174	572023	25.384	ng	0.00
Spiked Amount	25.000		Recovery	=	101.52%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	1373	0.055	ng	# 64
3) Dichlorodifluoromethane	4.99	85	1427	0.031	ng	# 90
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	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	6.52	94	224	0.013	ng	# 28
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.13	45	868	0.052	ng	# 34
11) Acetonitrile	7.47	41	2035	0.042	ng	# 1
12) Acrolein	7.67	56	281	0.024	ng	# 40
13) Acetone	7.89	58	5038	0.294	ng	94
14) Trichlorofluoromethane	8.14	101	854	0.022	ng	# 47
15) Isopropanol	8.34	45	2049	0.038	ng	74
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.29	59	110	0.002	ng	# 64
19) Methylene Chloride	9.36	84	626	0.033	ng	# 81
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	2047	0.028	ng	# 76
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	11.72	72	685	0.055	ng	# 17
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	22687	1.483	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.69	57	53	0.002	ng	# 71

CP 5/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300808.D  
 Acq On : 30 May 2008 13:37  
 Operator : WA  
 Sample : P0801548-001 Dil (25ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:54:39 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	220905	7.621 ng		99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	240	0.009 ng	#	44
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	3399	0.182 ng		90
41) Benzene	14.98	78	5288	0.074 ng		98
42) Carbon Tetrachloride	15.21	117	12253	0.446 ng		99
43) Cyclohexane	15.51	84	831	0.030 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.53	130	2540	0.116 ng		97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	817	0.010 ng		74
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.79	58	507	0.027 ng	#	45
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	122505	6.957 ng	#	7
58) Toluene	19.06	91	29052	0.386 ng		95
59) 2-Hexanone	19.39	43	944	0.018 ng	#	47
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.20	43	111	0.002 ng	#	9
63) n-Octane	20.35	57	2755	0.165 ng		99
64) Tetrachloroethene	20.53	166	22590	1.013 ng		99
65) Chlorobenzene	21.42	112	83	0.002 ng	#	42
66) Ethylbenzene	21.89	91	12084	0.140 ng		98
67) m- & p-Xylene	22.09	91	41573	0.720 ng		88
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	495	0.010 ng	#	69
70) o-Xylene	22.71	91	16479	0.264 ng		89
71) n-Nonane	22.98	43	1453	0.033 ng		87
72) 1,1,2,2-Tetrachloroethane	22.69	83	52	0.002 ng	#	17
74) Cumene	23.45	105	1976	0.024 ng	#	55
75) alpha-Pinene	24.09	93	1664	0.039 ng	#	13
76) n-Propylbenzene	24.10	91	6048	0.057 ng	#	1
77) 3-Ethyltoluene	24.23	105	13501	0.153 ng		93
78) 4-Ethyltoluene	24.28	105	6587	0.080 ng		87
79) 1,3,5-Trimethylbenzene	24.37	105	9815	0.132 ng		73

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QPS/30108

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300808.D  
 Acq On : 30 May 2008 13:37  
 Operator : WA  
 Sample : P0801548-001 Dil (25ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:54:39 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	329	0.008	ng	# 67
81) 2-Ethyltoluene	24.61	105	5993	0.067	ng	91
82) 1,2,4-Trimethylbenzene	24.88	105	17828	0.235	ng	86
83) n-Decane	24.98	57	6280	0.151	ng	86
84) Benzyl Chloride	25.04	91	1816	0.036	ng	# 53
85) 1,3-Dichlorobenzene	25.07	146	1488	0.031	ng	96
86) 1,4-Dichlorobenzene	25.16	146	6409	0.140	ng	99
87) sec-Butylbenzene	25.21	105	624	0.006	ng	# 26
88) p-Isopropyltoluene	25.39	119	1345	0.017	ng	# 1
89) 1,2,3-Trimethylbenzene	25.41	105	4313	0.058	ng	85
90) 1,2-Dichlorobenzene	25.58	146	518	0.012	ng	# 53
91) d-Limonene	25.57	68	560	0.019	ng	90
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.49	57	4021	0.092	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	1671	0.051	ng	86
95) Naphthalene	27.77	128	11393	0.114	ng	98
96) n-Dodecane	27.74	57	4913	0.113	ng	85
97) Hexachloro-1,3-butadiene	28.19	225	15456	0.705	ng	99

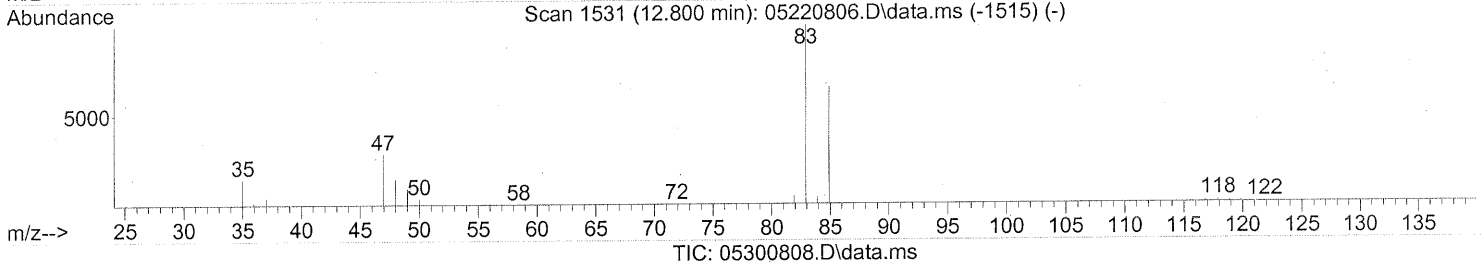
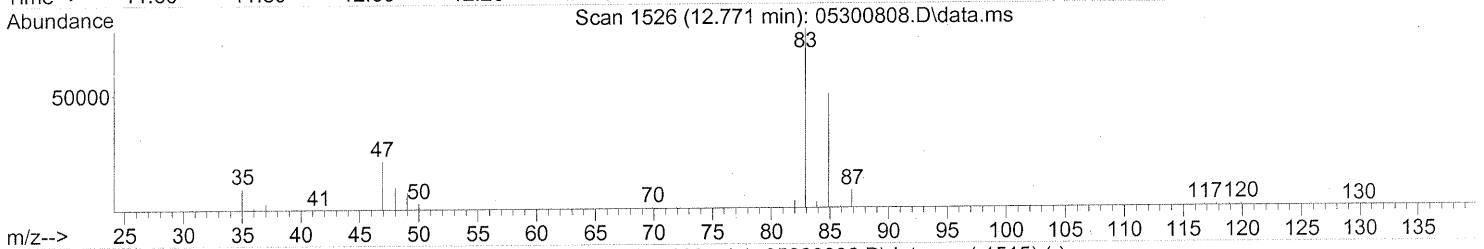
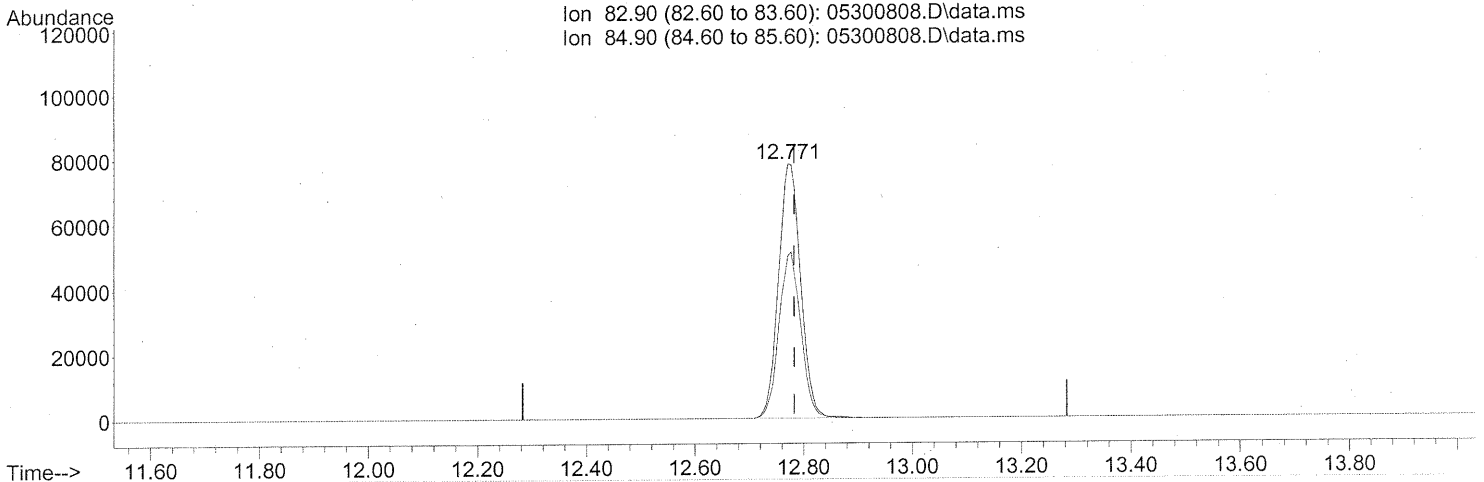
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*CV 5/30/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300808.D  
 Acq On : 30 May 2008 13:37  
 Operator : WA  
 Sample : P0801548-001 Dil (25ml)  
 Misc : ENSR SG91B-05 (-3.3,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 14:54:39 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.771min (-0.011) 7.62ng

response 220905

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.15
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00372

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.6	0.16	0.40	0.33	0.033	
74-87-3	Chloromethane	ND	0.33	0.16	ND	0.16	0.079	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.6	0.16	ND	0.23	0.023	
75-01-4	Vinyl Chloride	ND	0.33	0.16	ND	0.13	0.064	
74-83-9	Bromomethane	ND	0.33	0.16	ND	0.085	0.042	
75-00-3	Chloroethane	0.19	0.33	0.16	0.072	0.12	0.062	J
64-17-5	Ethanol	4.2	16	0.16	2.2	8.7	0.087	J
67-64-1	Acetone	16	16	0.24	6.5	6.9	0.10	J, B, M
75-69-4	Trichlorofluoromethane	1.1	0.33	0.16	0.20	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.76	0.11	
75-35-4	1,1-Dichloroethene	0.93	0.33	0.16	0.24	0.083	0.041	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	1.6	0.24	0.10	0.54	0.080	J
75-09-2	Methylene Chloride	0.68	1.6	0.16	0.19	0.47	0.047	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	Trichlorotrifluoroethane	0.40	0.33	0.18	0.052	0.043	0.024	
75-15-0	Carbon Disulfide	4.0	1.6	0.39	1.3	0.53	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.16	ND	0.083	0.041	
75-34-3	1,1-Dichloroethane	0.27	0.33	0.16	0.066	0.081	0.041	J
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.16	ND	0.091	0.046	
108-05-4	Vinyl Acetate	9.5	16	0.52	2.7	4.7	0.15	J
78-93-3	2-Butanone (MEK)	4.7	1.6	0.16	1.6	0.56	0.056	
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.16	ND	0.083	0.041	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.39	0.046	
67-66-3	Chloroform	860	0.33	0.19	180	0.067	0.040	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By: CA      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00372

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.6	0.17	ND	0.39	0.040	
107-06-2	1,2-Dichloroethane	ND	0.33	0.16	ND	0.081	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
71-43-2	<b>Benzene</b>	<b>4.9</b>	0.33	0.16	<b>1.5</b>	0.10	0.051	
56-23-5	<b>Carbon Tetrachloride</b>	<b>9.4</b>	0.33	0.16	<b>1.5</b>	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.39	0.039	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.24</b>	0.33	0.16	<b>0.053</b>	0.071	0.035	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.44</b>	0.33	0.16	<b>0.065</b>	0.049	0.024	
79-01-6	<b>Trichloroethene</b>	<b>2.3</b>	0.33	0.16	<b>0.42</b>	0.061	0.031	
123-91-1	<b>1,4-Dioxane</b>	<b>0.86</b>	1.6	0.20	<b>0.24</b>	0.46	0.056	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.6	0.25	ND	0.40	0.060	
142-82-5	<b>n-Heptane</b>	<b>0.78</b>	1.6	0.21	<b>0.19</b>	0.40	0.051	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.038	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.1</b>	1.6	0.18	<b>0.51</b>	0.40	0.045	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.21	ND	0.36	0.046	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
108-88-3	<b>Toluene</b>	<b>30</b>	1.6	0.16	<b>8.0</b>	0.44	0.044	
591-78-6	<b>2-Hexanone</b>	<b>0.90</b>	1.6	0.25	<b>0.22</b>	0.40	0.061	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.039	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	<b>n-Octane</b>	<b>14</b>	1.6	0.16	<b>2.9</b>	0.35	0.035	
127-18-4	<b>Tetrachloroethene</b>	<b>23</b>	0.33	0.16	<b>3.4</b>	0.048	0.024	
108-90-7	<b>Chlorobenzene</b>	<b>0.62</b>	0.33	0.17	<b>0.14</b>	0.071	0.036	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:                      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG93B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-002

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00372

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.64

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	13	1.6	0.20	3.0	0.38	0.047	
179601-23-1	m,p-Xylenes	67	1.6	0.43	16	0.38	0.098	
75-25-2	Bromoform	0.28	1.6	0.25	0.027	0.16	0.024	J
100-42-5	Styrene	0.38	1.6	0.25	0.089	0.39	0.059	J
95-47-6	o-Xylene	23	1.6	0.21	5.3	0.38	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	0.79	1.6	0.18	0.16	0.33	0.037	J
103-65-1	n-Propylbenzene	4.2	1.6	0.17	0.86	0.33	0.035	
622-96-8	4-Ethyltoluene	7.0	1.6	0.19	1.4	0.33	0.038	
108-67-8	1,3,5-Trimethylbenzene	5.5	1.6	0.20	1.1	0.33	0.040	
98-83-9	alpha-Methylstyrene	ND	1.6	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	21	1.6	0.23	4.3	0.33	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.055	
541-73-1	1,3-Dichlorobenzene	4.3	0.33	0.20	0.71	0.055	0.034	
106-46-7	1,4-Dichlorobenzene	4.6	0.33	0.18	0.77	0.055	0.031	
135-98-8	sec-Butylbenzene	0.33	1.6	0.19	0.061	0.30	0.035	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.4	1.6	0.21	0.25	0.30	0.039	J
95-50-1	1,2-Dichlorobenzene	0.38	0.33	0.22	0.063	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.6	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	0.95	0.33	0.25	0.13	0.044	0.034	
91-20-3	Naphthalene	1.3	0.66	0.24	0.24	0.13	0.046	
87-68-3	Hexachlorobutadiene	45	0.33	0.30	4.2	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.16	ND	0.12	0.030	
104-51-8	n-Butylbenzene	1.4	0.66	0.16	0.26	0.12	0.030	

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

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

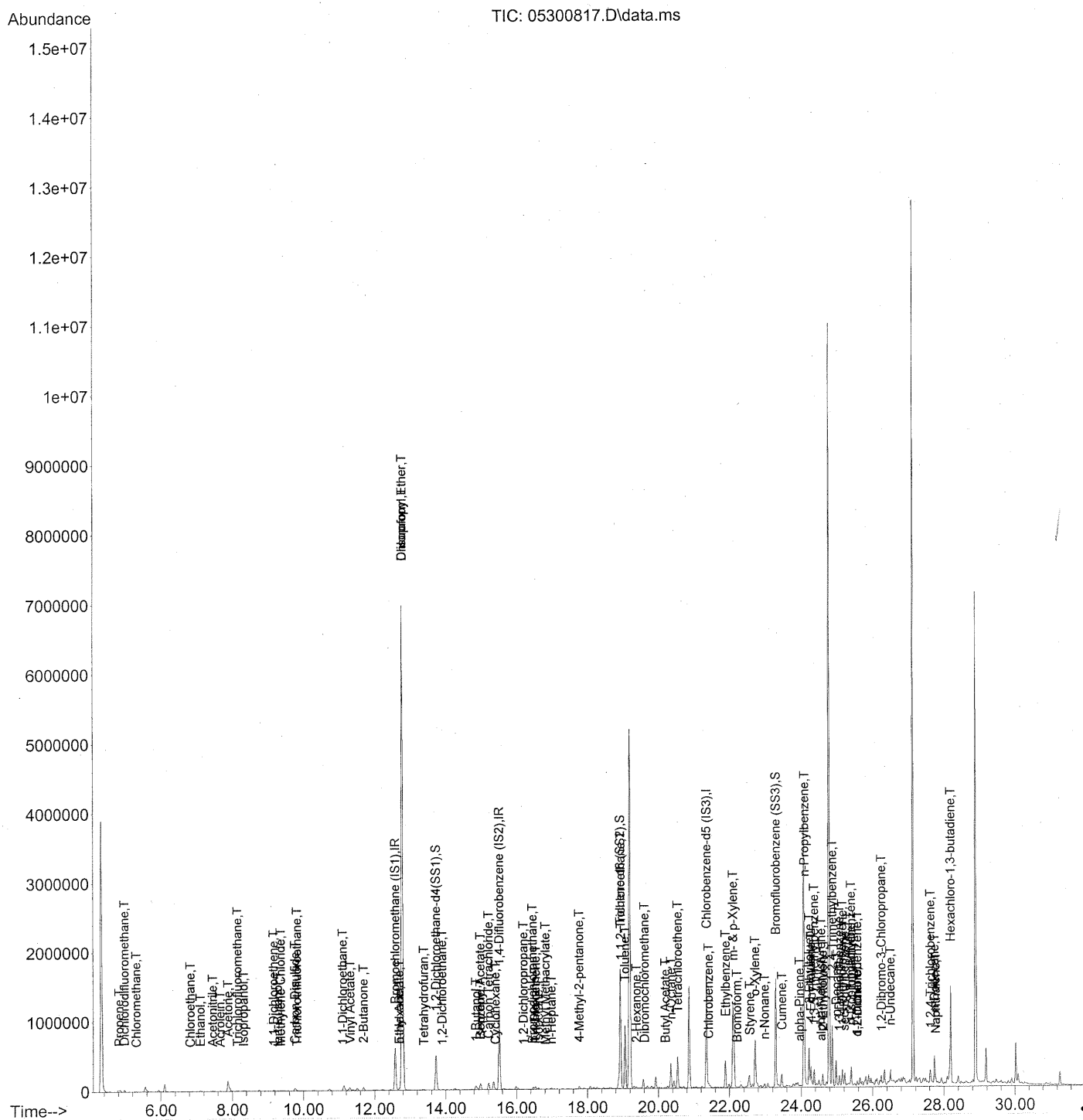
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**154**

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	326975	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1382503	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	645366	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	520813	22.988	ng	0.00
Spiked Amount				25.000		
				Recovery =	91.96%	✓
57) Toluene-d8 (SS2)	18.93	98	1447149	24.968	ng	0.00
Spiked Amount				25.000		
				Recovery =	99.88%	✓
73) Bromofluorobenzene (SS3)	23.29	174	596822	25.322	ng	0.00
Spiked Amount				25.000		
				Recovery =	101.28%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	10055	0.389	ng	# 40
3) Dichlorodifluoromethane	4.97	85	28992	0.609	ng	98
4) Chloromethane	5.30	50	1417	<del>0.046</del>	ng	# 56
5) Freon 114	5.54	135	572	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	669	N.D.		
8) Bromomethane	6.49	94	115	N.D.	✓	
9) Chloroethane	6.82	64	854	0.058	ng	# 62
10) Ethanol	7.10	45	21902m	1.274	ng	
11) Acetonitrile	7.45	41	13976	0.281	ng	96
12) Acrolein	7.66	56	4902	0.399	ng	98
13) Acetone	7.88	58	83228	4.728	ng	# M 71
14) Trichlorofluoromethane	8.14	101	13997	0.343	ng	93
15) Isopropanol	8.32	45	16694	0.297	ng	85
16) Acrylonitrile	8.65	53	289	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	5124	0.285	ng	# 74
18) tert-Butanol	9.28	59	4378	0.092	ng	# 71
19) Methylene Chloride	9.36	84	4060	0.206	ng	# 79
20) Allyl Chloride	9.55	41	108	N.D.	✓	
21) Trichlorotrifluoroethane	9.82	151	2260	0.122	ng	92
22) Carbon Disulfide	9.76	76	90286	1.209	ng	99
23) trans-1,2-Dichloroethene	10.80	61	59	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	2784	0.082	ng	65
25) Methyl tert-Butyl Ether	11.23	73	1789	N.D.	✓	
26) Vinyl Acetate	11.31	86	9418	2.895	ng	# 1
27) 2-Butanone	11.68	72	18219	1.418	ng	# 92
28) cis-1,2-Dichloroethene	12.35	61	72	N.D.	✓	
29) Diisopropyl Ether	12.78	87	823189	<del>52.293</del>	ng	1
30) Ethyl Acetate	12.69	61	2212	0.319	ng	88
31) n-Hexane	12.70	57	11779	0.337	ng	# 71

*06/04/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	7651340	<del>256.618</del> ng	<i>Su Ath.</i>	99
34) Tetrahydrofuran	13.38	72	2475	0.202	ng #	82
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.90	62	1286	<del>0.045</del> ng		72
38) 1,1,1-Trichloroethane	14.29	97	248	N.D. ✓		
39) Isopropyl Acetate	14.97	61	591	0.050	ng #	1
40) 1-Butanol	14.85	56	60285	3.172	ng	89
41) Benzene	14.98	78	107114	1.480	ng	99
42) Carbon Tetrachloride	15.21	117	80272	2.879	ng	99
43) Cyclohexane	15.40	84	2516	0.089	ng #	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	1432	0.074	ng	89
46) Bromodichloromethane	16.45	83	3255	0.133	ng	84
47) Trichloroethene	16.53	130	15228	0.686	ng	99
48) 1,4-Dioxane	16.51	88	3560	0.261	ng	88
49) Isooctane	16.62	57	16605	0.200	ng #	48
50) Methyl Methacrylate	16.81	100	342	<del>0.047</del> ng	#	1
51) n-Heptane	16.98	71	4603	0.239	ng #	74
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	12309	0.640	ng	80
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	125965	<del>7.042</del> ng	<i>M</i>	8
58) Toluene	19.06	91	721024	9.152	ng #	97
59) 2-Hexanone	19.38	43	14853	0.274	ng #	62
60) Dibromochloromethane	19.61	129	1028	<del>0.048</del> ng		96
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	3233	0.059	ng #	15
63) n-Octane	20.35	57	71988	4.131	ng	88
64) Tetrachloroethene	20.54	166	163848	7.028	ng	98
65) Chlorobenzene	21.41	112	10052	0.190	ng	82
66) Ethylbenzene	21.89	91	361348	4.000	ng	95
67) m- & p-Xylene	22.10	91	1241028	20.537	ng	91
68) Bromoform	22.21	173	1345	0.085	ng	87
69) Styrene	22.57	104	6205	0.115	ng	94
70) o-Xylene	22.71	91	454584	6.969	ng	93
71) n-Nonane	22.98	43	24930	0.538	ng #	82
72) 1,1,2,2-Tetrachloroethane	22.71	83	1080	N.D. ✓		
74) Cumene	23.46	105	21046	0.242	ng	98
75) alpha-Pinene	23.96	93	7290	0.162	ng	90
76) n-Propylbenzene	24.10	91	141745	1.282	ng #	1
77) 3-Ethyltoluene	24.23	105	380601	4.117	ng	98
78) 4-Ethyltoluene	24.28	105	183408	2.128	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	129676	1.665	ng	98

*Page 04/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	2059	<del>0.049</del>	ng #	59
81) 2-Ethyltoluene	24.61	105	123864	1.322	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	506492	6.389	ng	88
83) n-Decane	24.98	57	134982	3.094	ng	82
84) Benzyl Chloride	25.04	91	1610	N.D.		
85) 1,3-Dichlorobenzene	25.07	146	64282	1.297	ng	99
86) 1,4-Dichlorobenzene	25.16	146	67682	1.409	ng	100
87) sec-Butylbenzene	25.21	105	10363	0.102	ng	87
88) p-Isopropyltoluene	25.39	119	35427	0.425	ng #	70
89) 1,2,3-Trimethylbenzene	25.40	105	112812	1.454	ng	87
90) 1,2-Dichlorobenzene	25.57	146	5398	0.115	ng	96
91) d-Limonene	25.57	68	12572	0.398	ng	93
92) 1,2-Dibromo-3-Chloropr...	26.25	157	5284	<del>0.362</del>	ng	52
93) n-Undecane	26.50	57	92440	2.025	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	9989	0.290	ng	95
95) Naphthalene	27.77	128	40802	0.390	ng	94
96) n-Dodecane	27.73	57	129454	2.851	ng	85
97) Hexachloro-1,3-butadiene	28.19	225	314905	13.739	ng	99

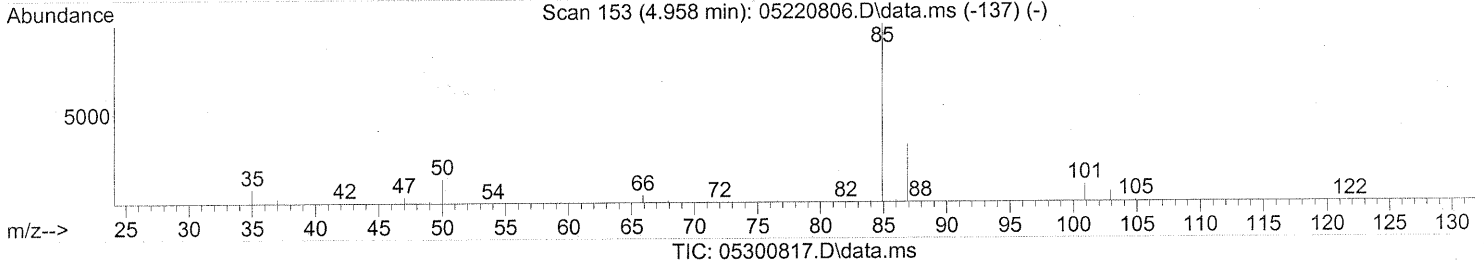
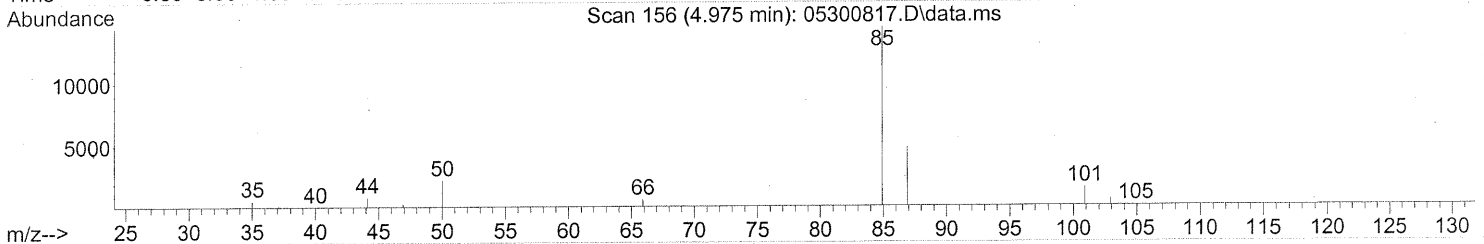
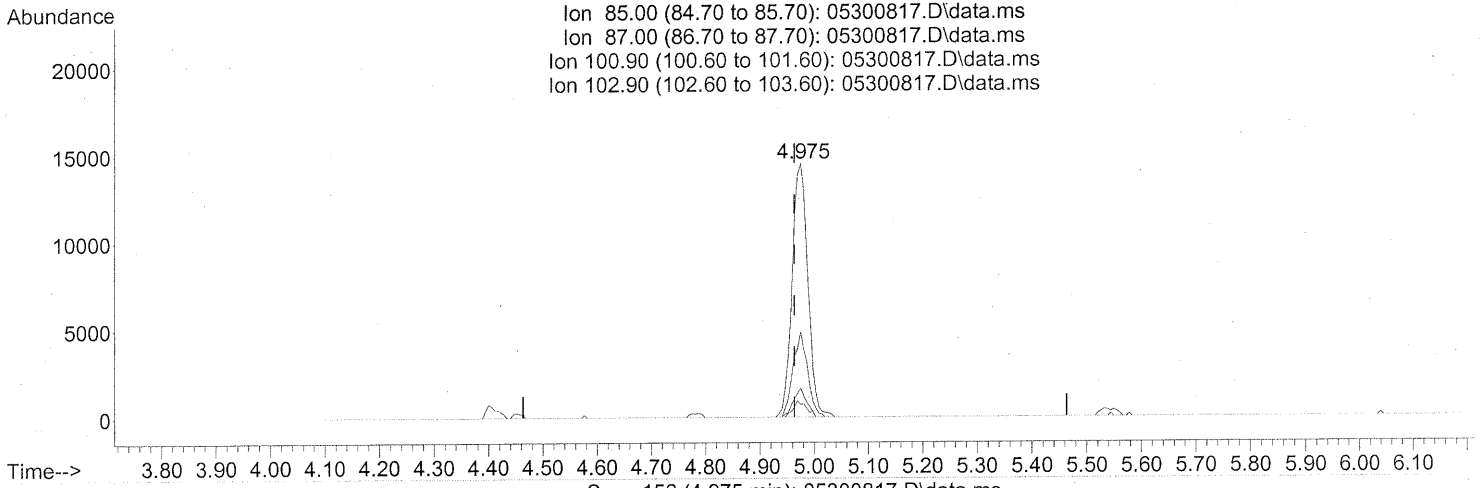
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*P06/04/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.61ng

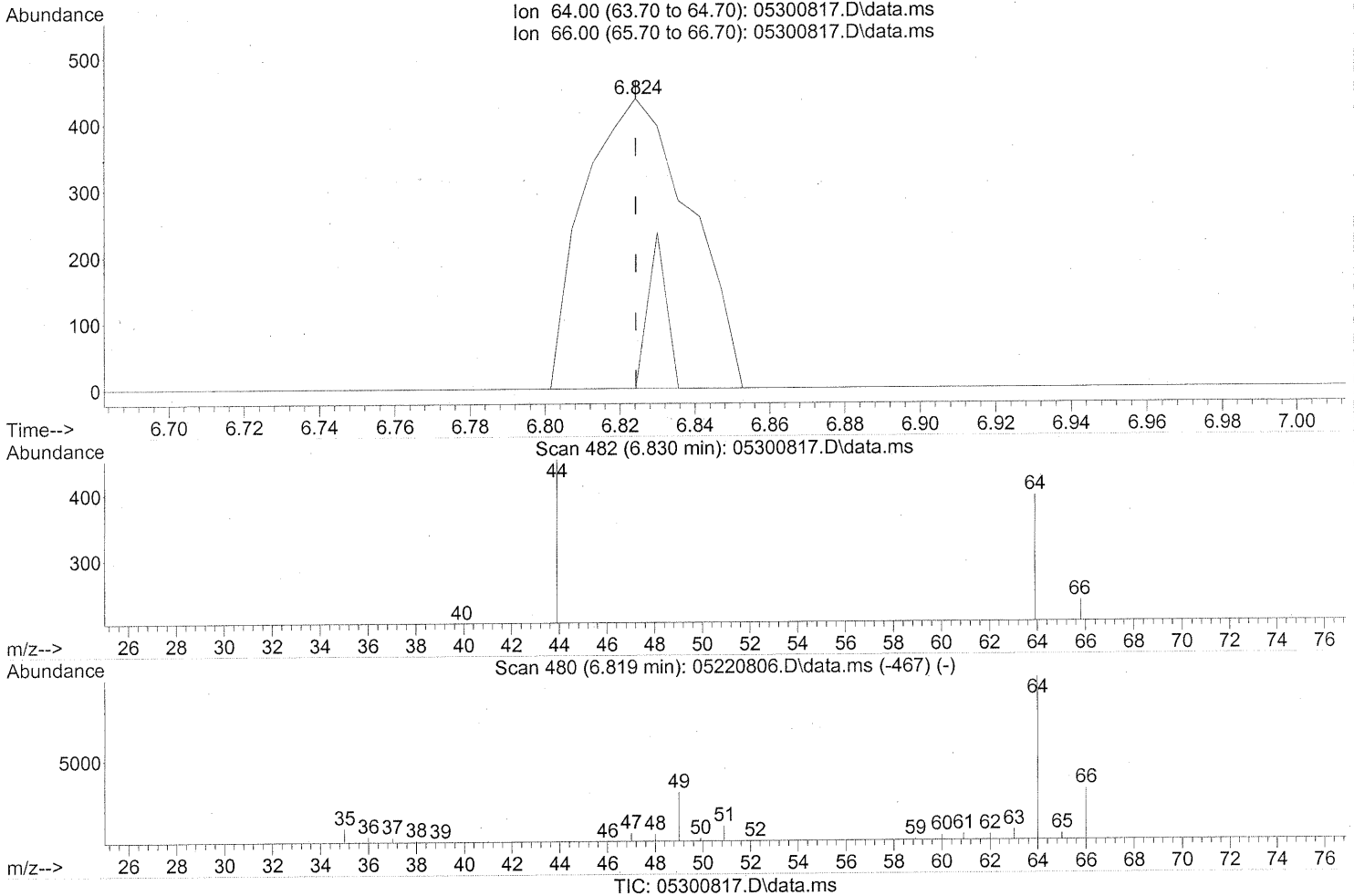
response 28992

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.02
100.90	9.30	9.40
102.90	6.00	5.30

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)

6.824min (-0.000) 0.06ng

response 854

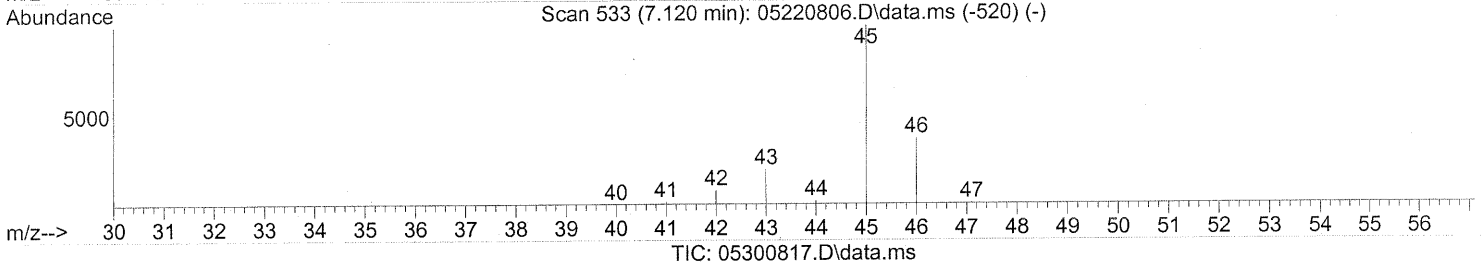
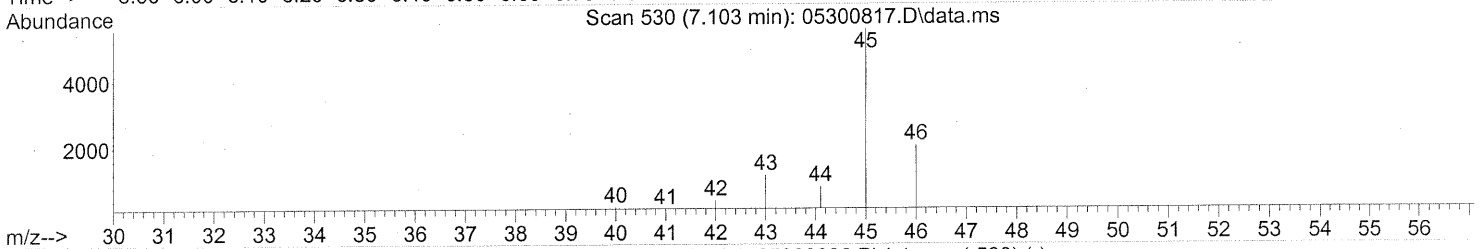
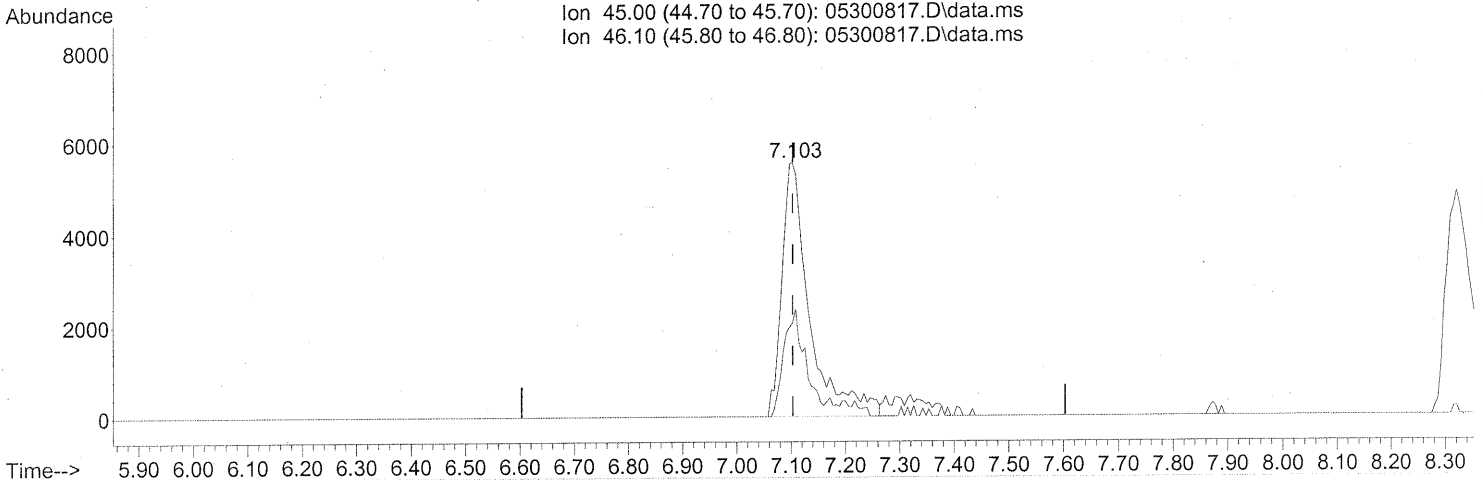
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	9.37#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:03:42 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.103min (-0.000) 1.15ng  
response 19690

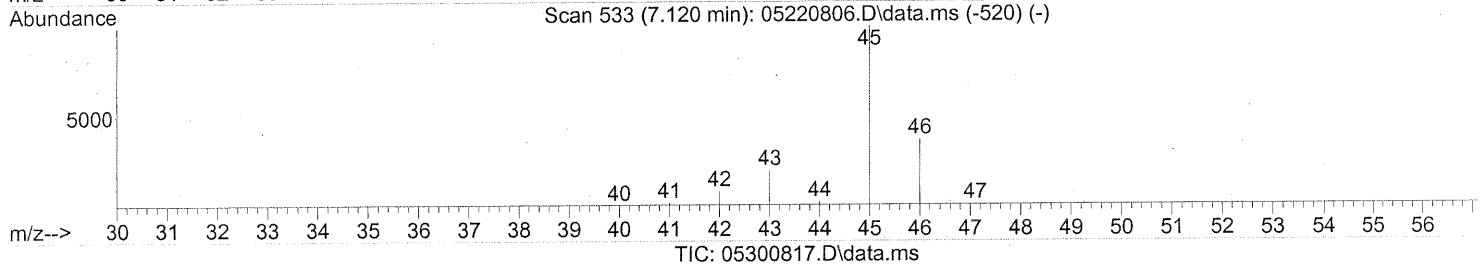
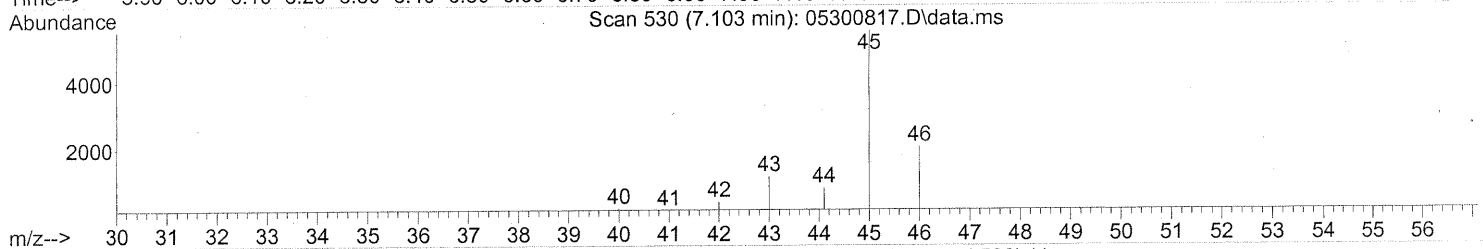
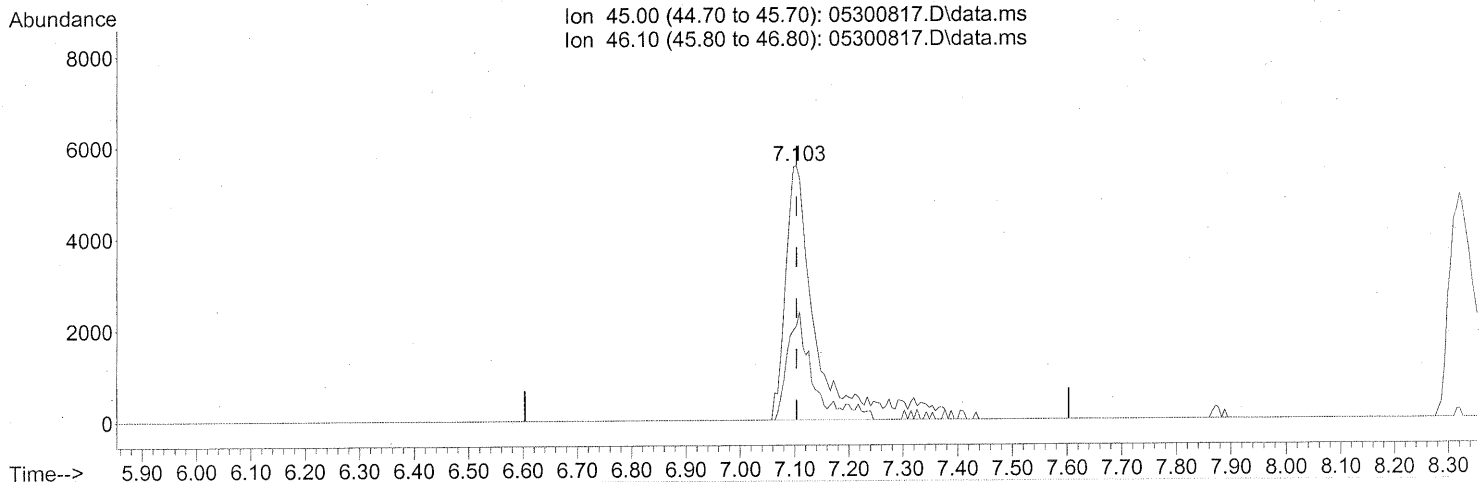
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.80
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:03:42 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.103min (-0.000) 1.27ng m  
 response 21902

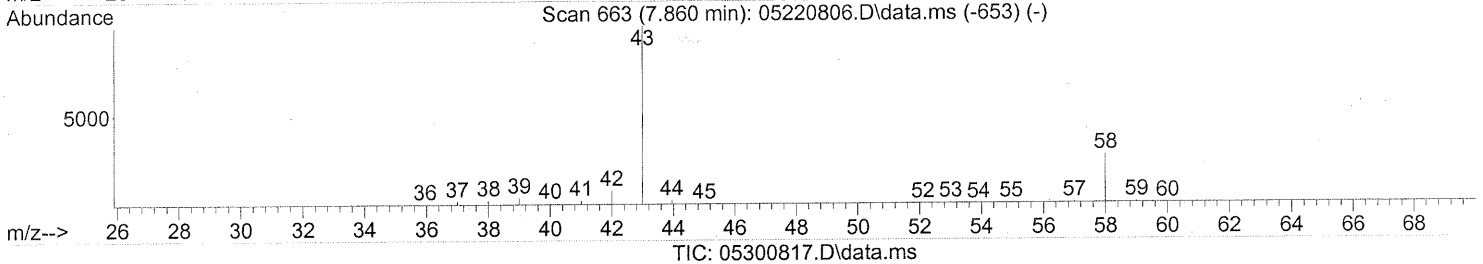
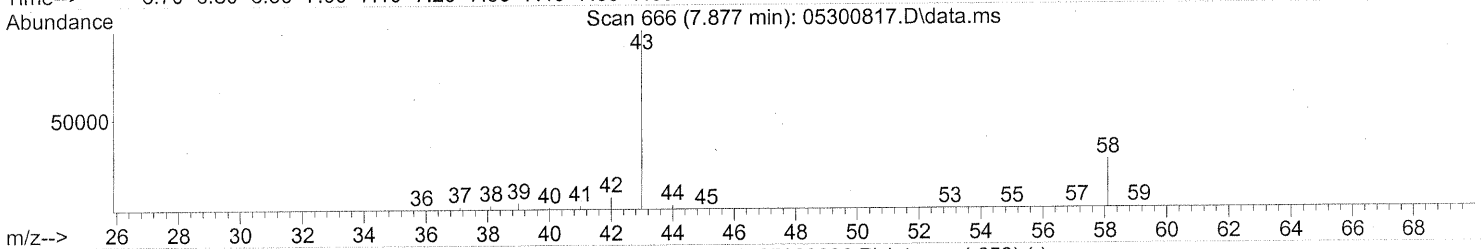
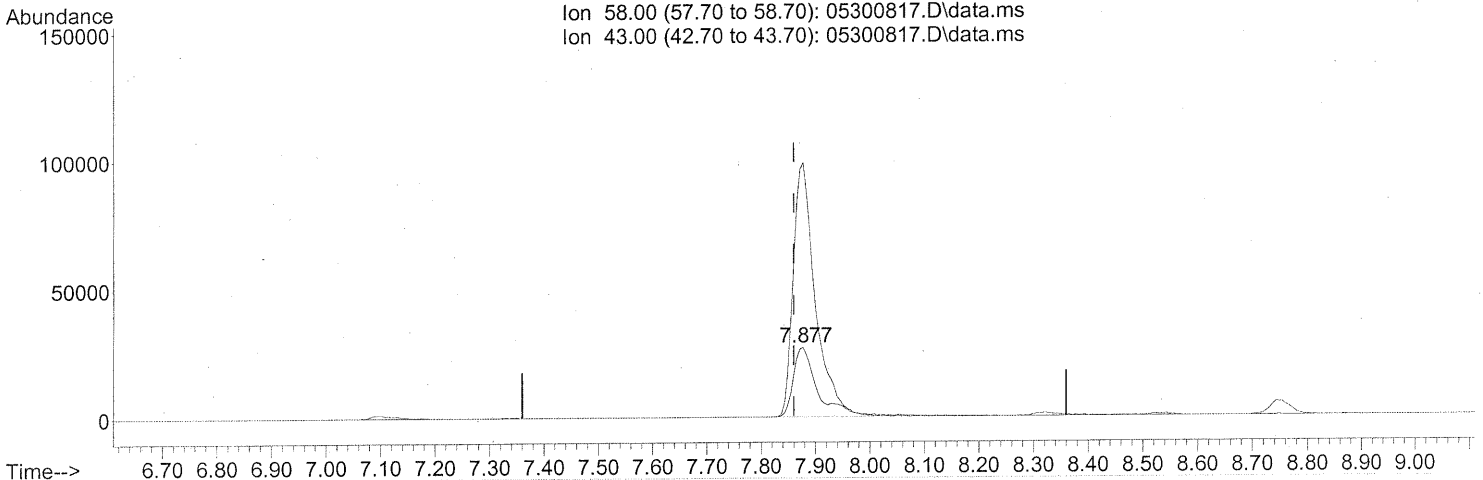
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.49
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
 Fac/4/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.877min (+0.017) 4.73ng

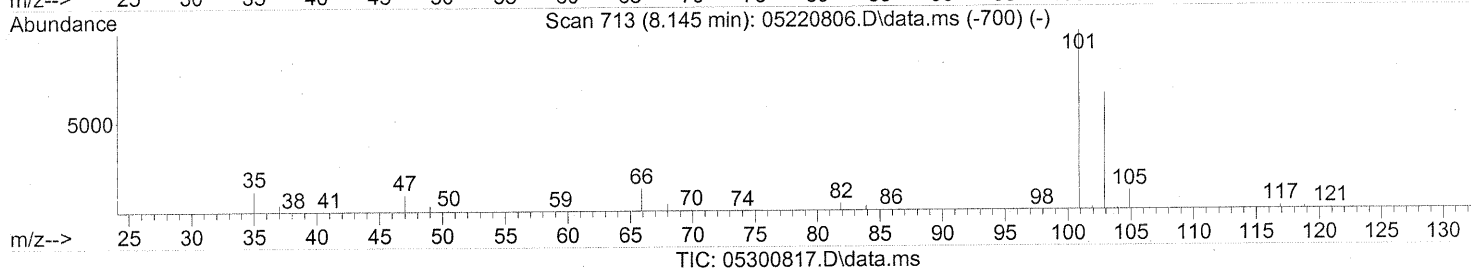
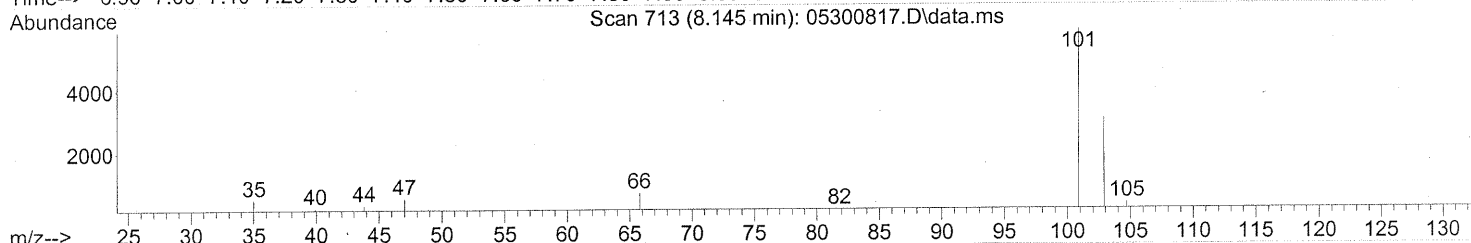
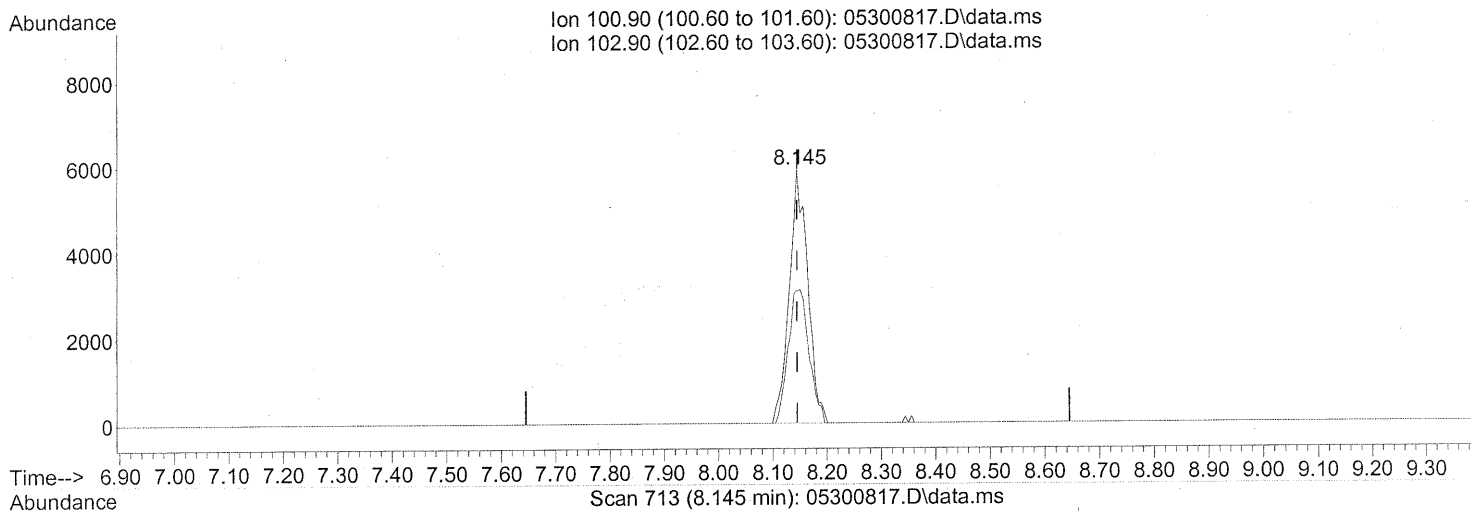
response 83228

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	337.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.34ng

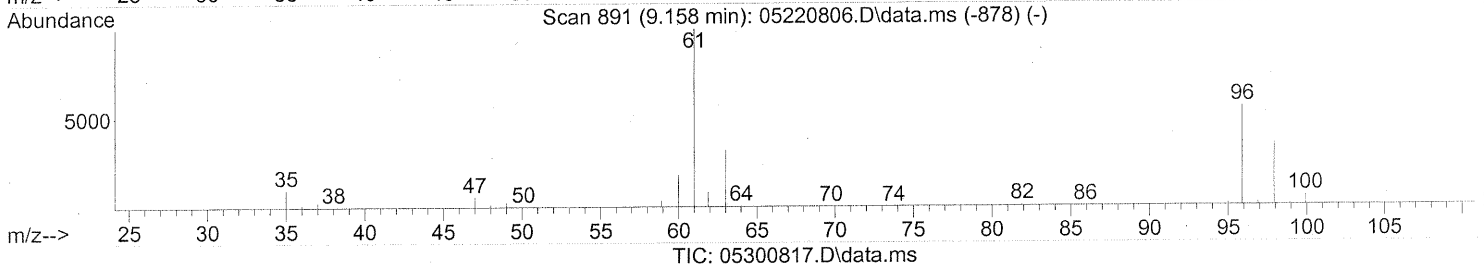
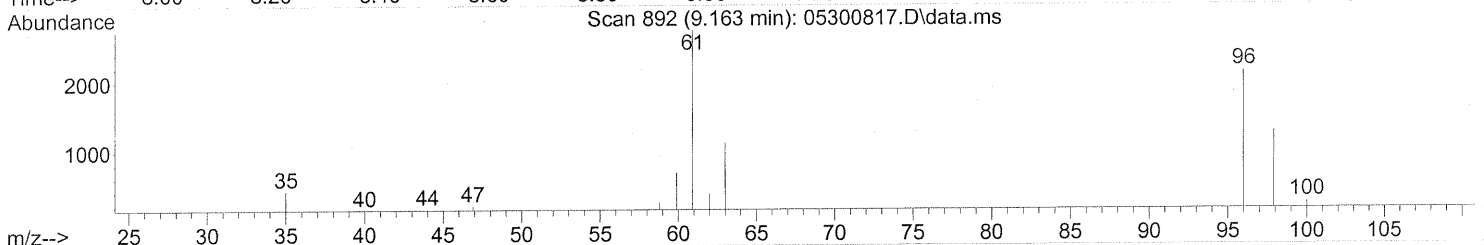
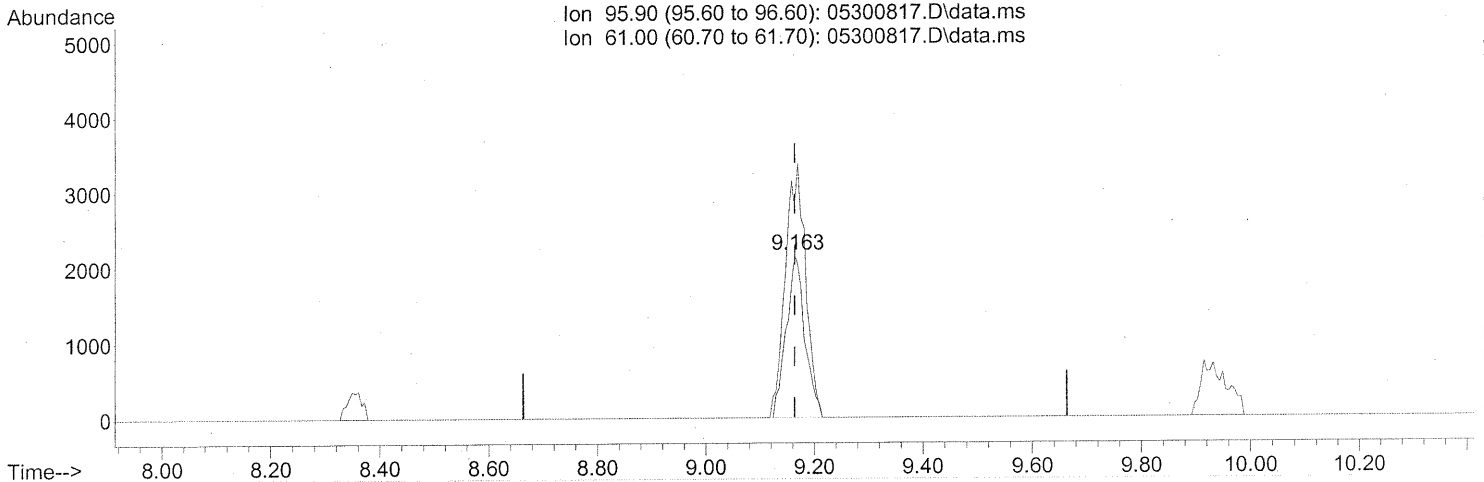
response 13997

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	59.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.29ng

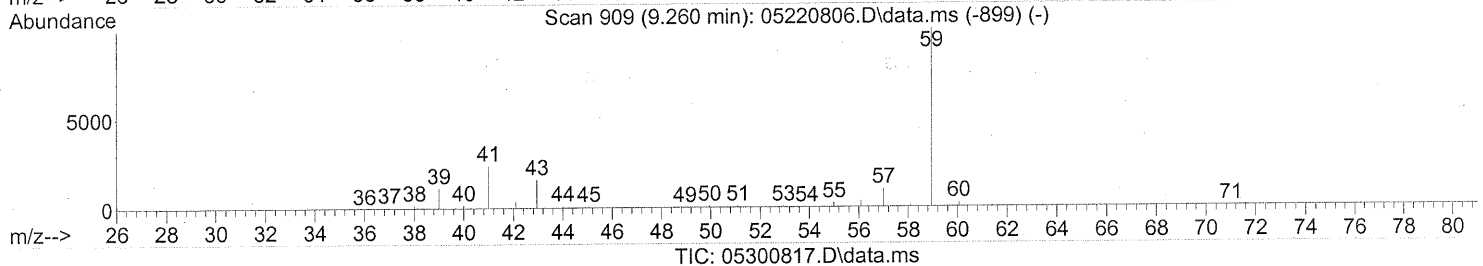
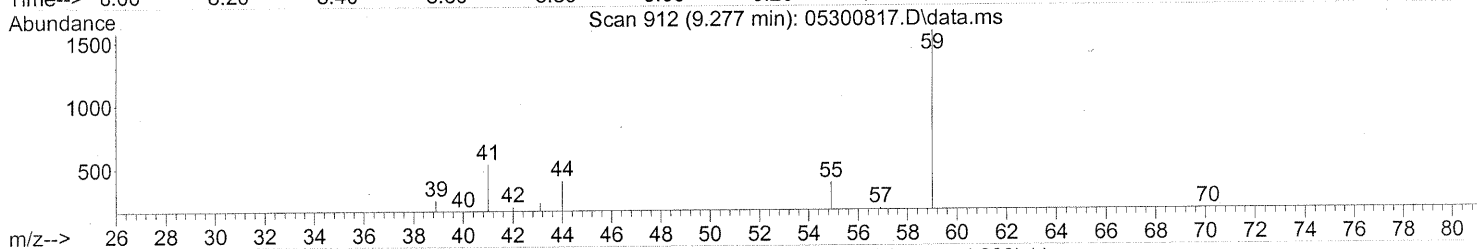
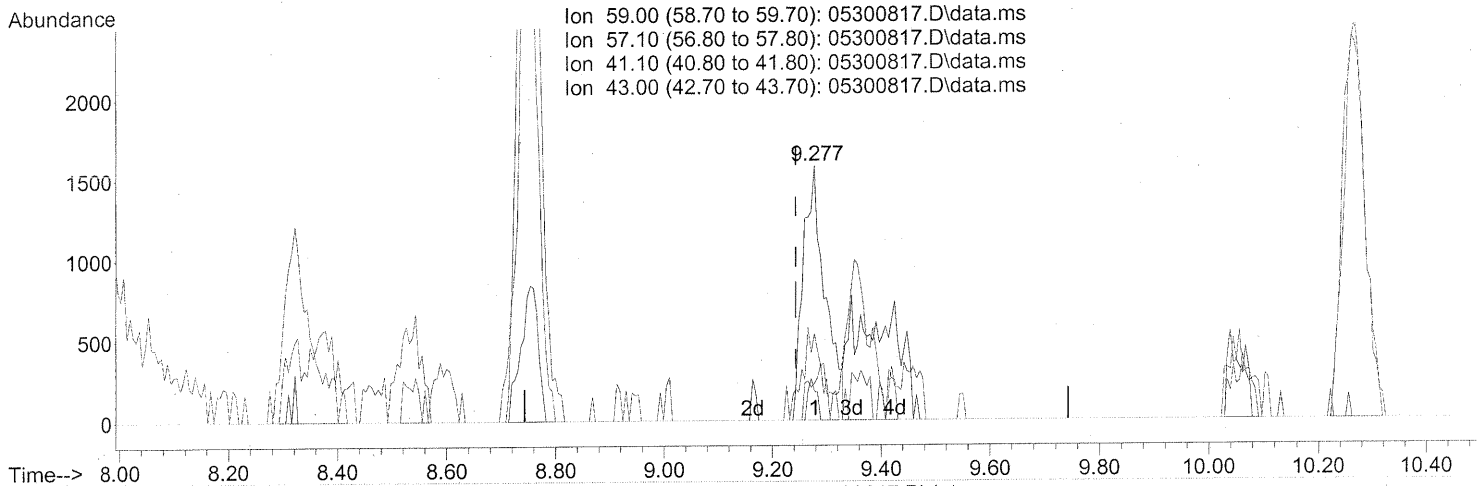
response 5124

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	169.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



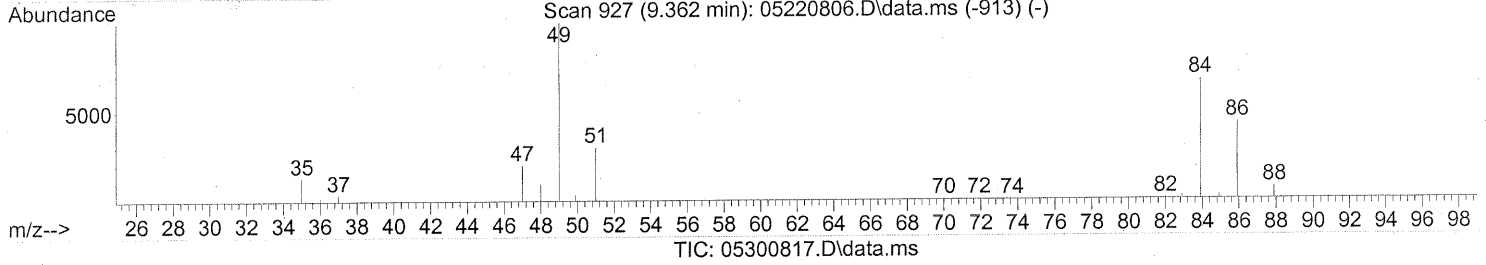
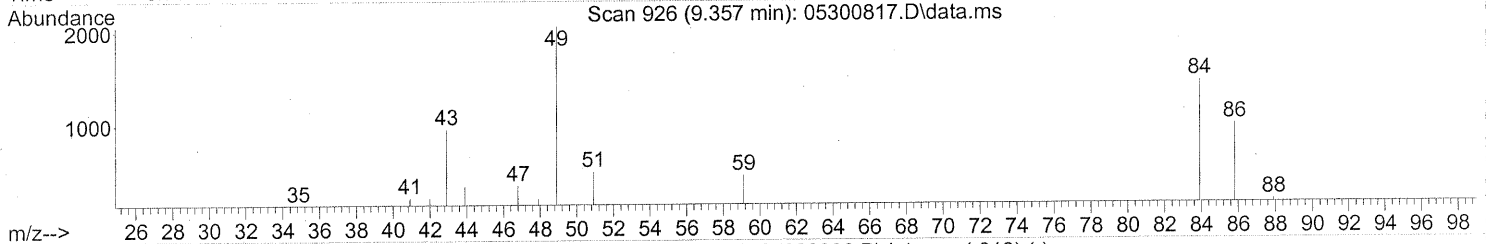
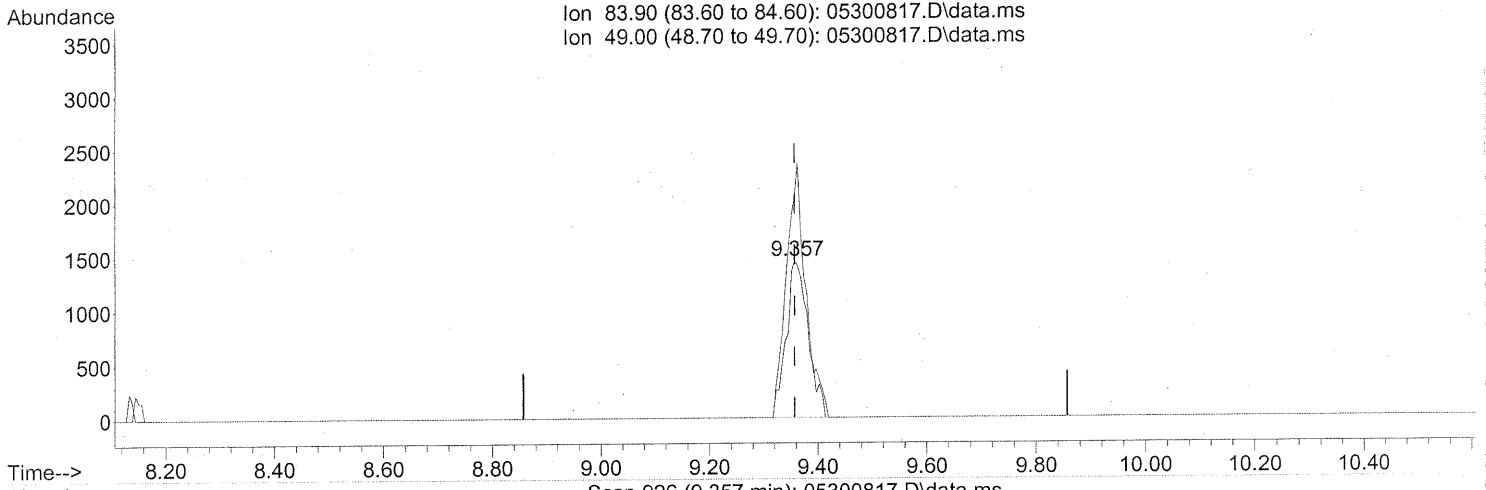
(18) tert-Butanol (T)  
 9.277min (+0.034) 0.09ng  
 response 4378

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	0.00#
43.00	12.30	9.71

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.21ng

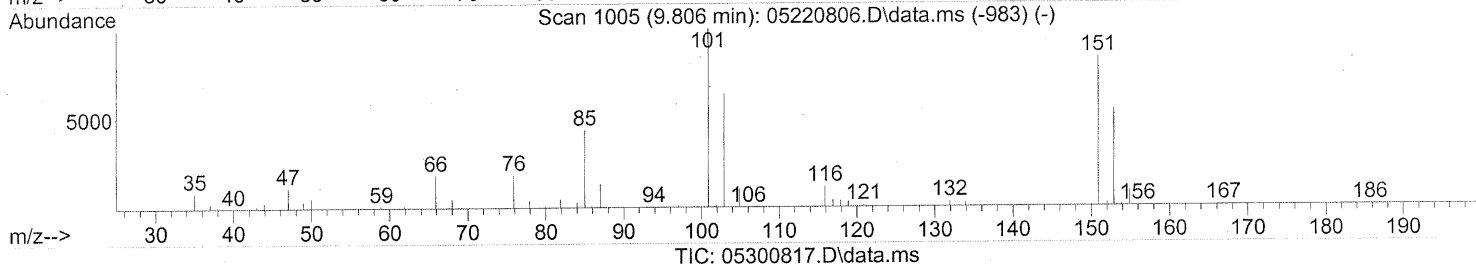
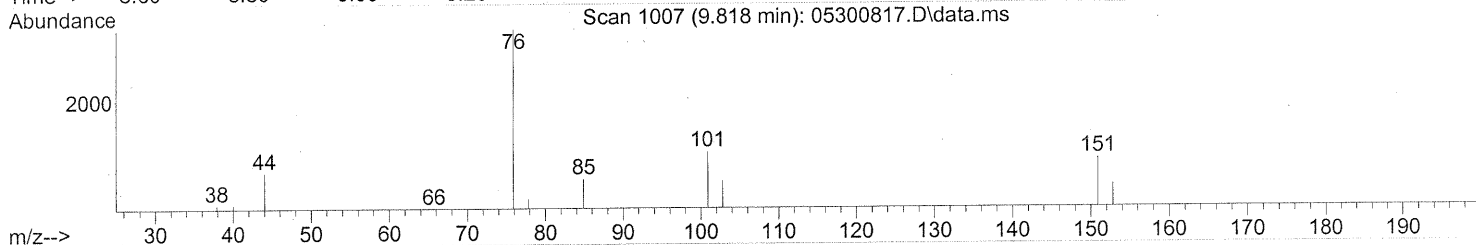
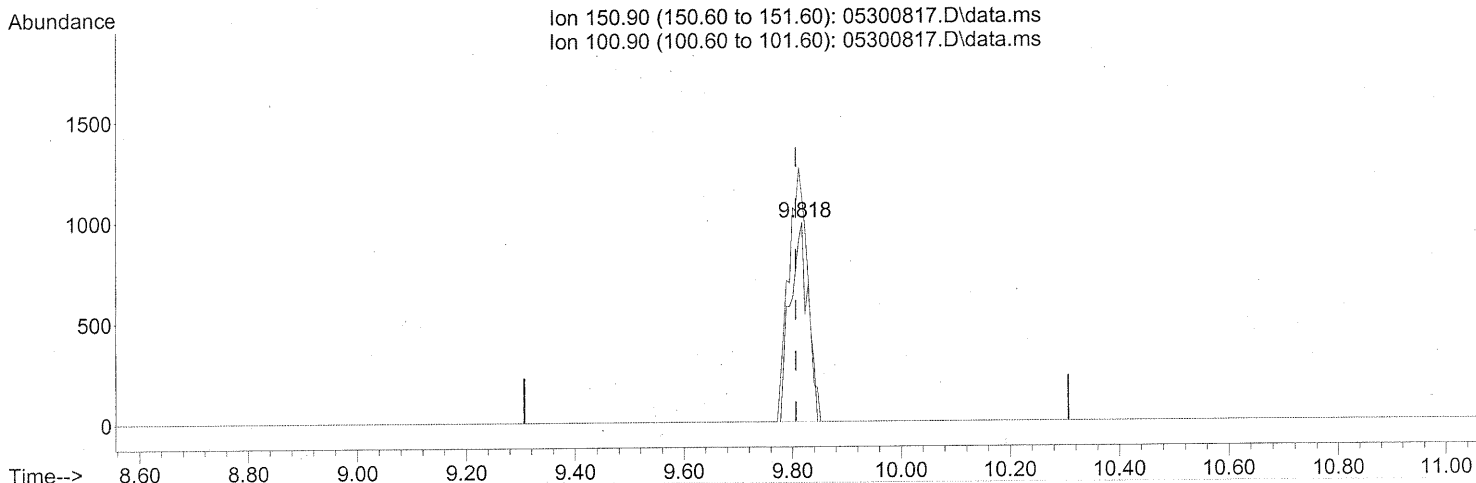
response 4060

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	144.14#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.12ng

response 2260

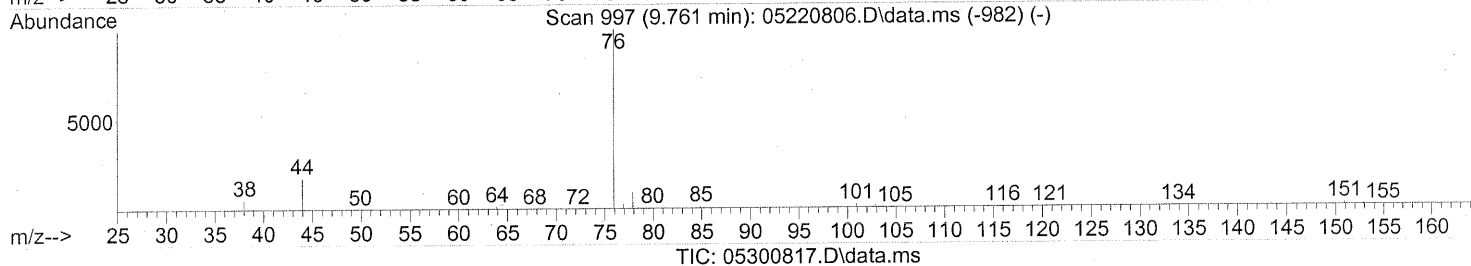
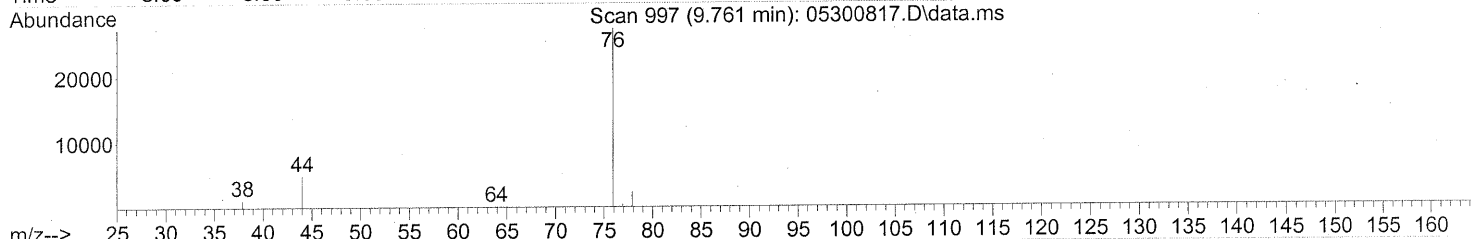
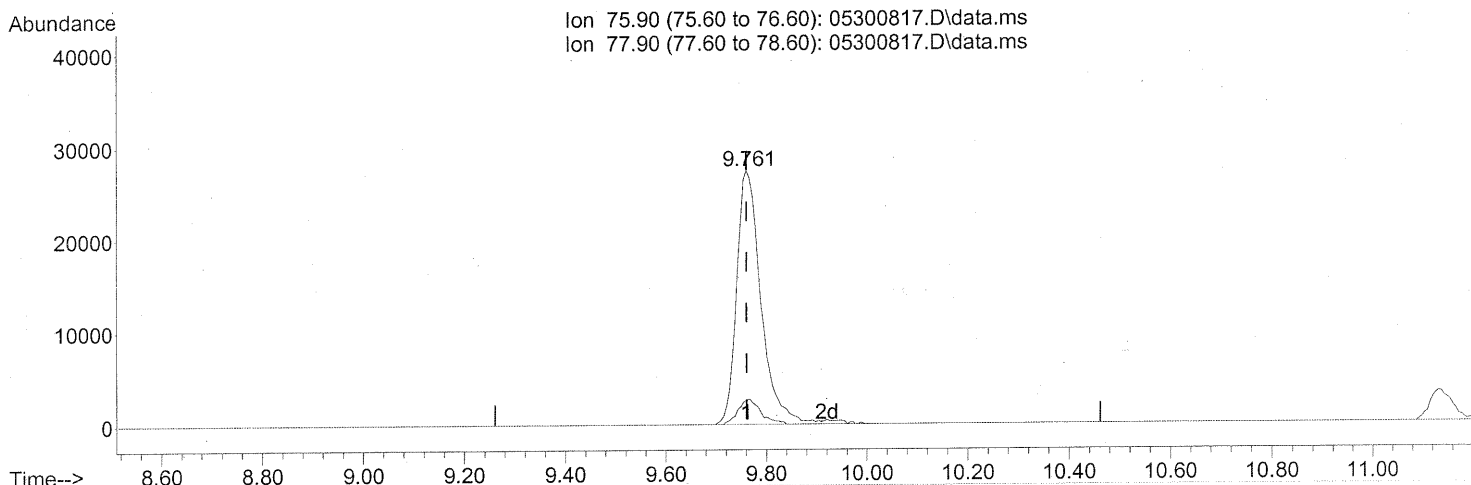
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	135.31
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.761min (-0.000) 1.21ng

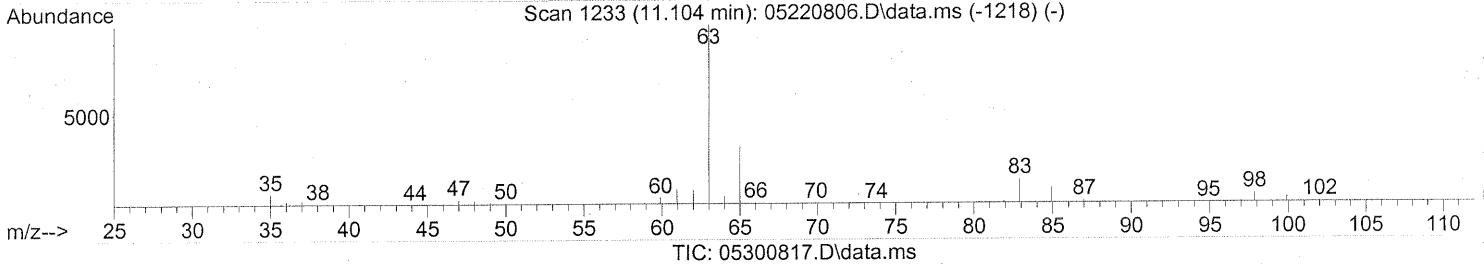
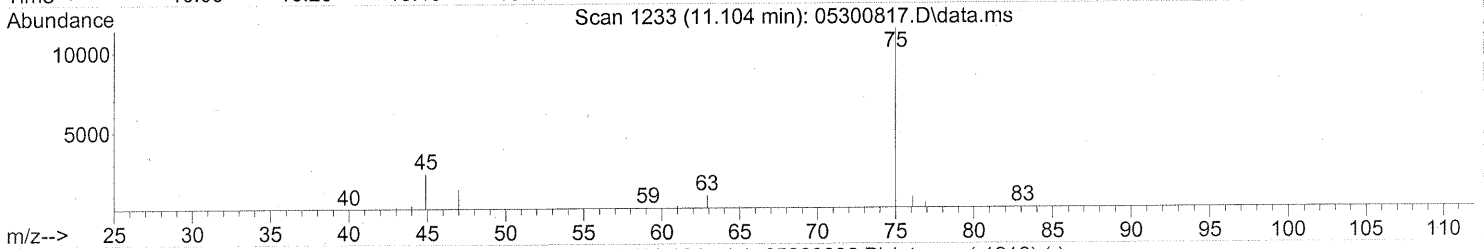
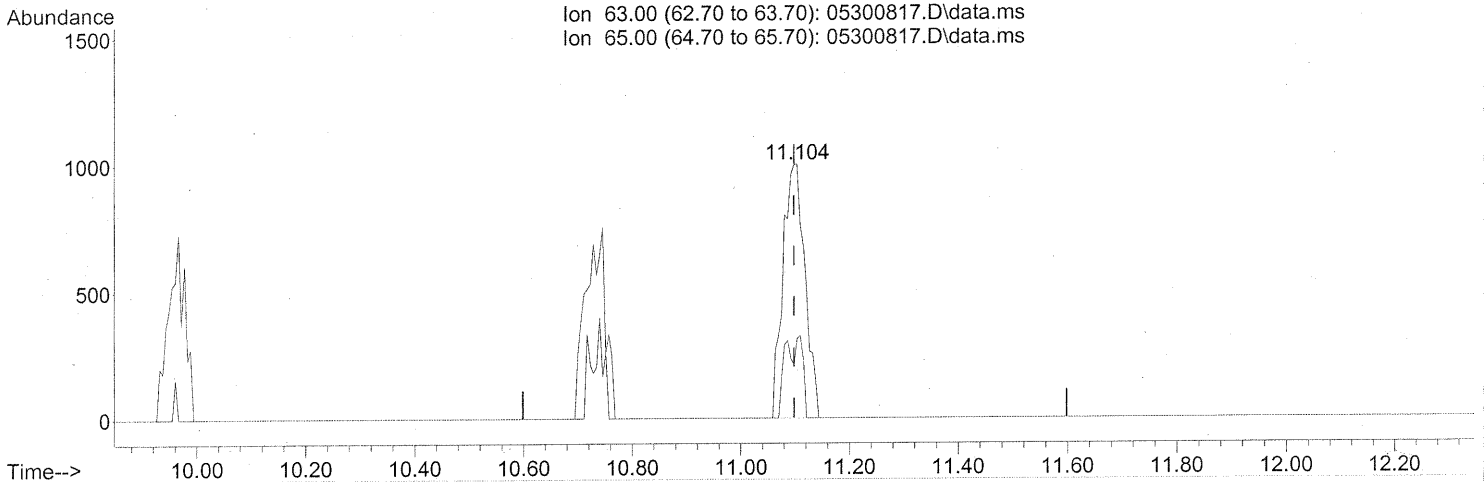
response 90286

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.08ng

response 2784

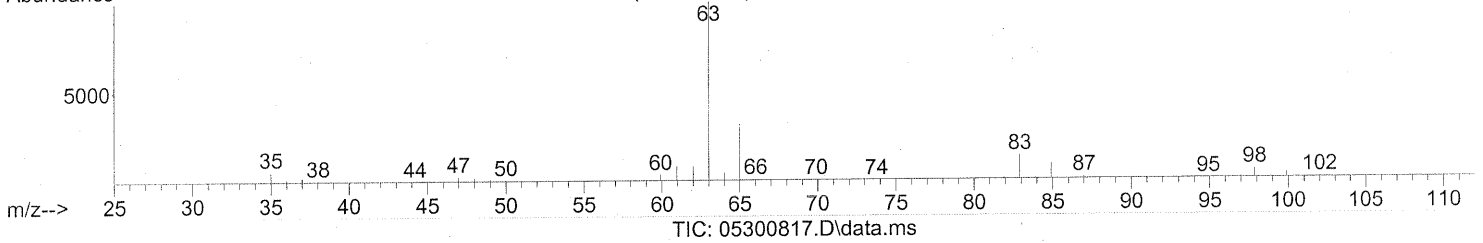
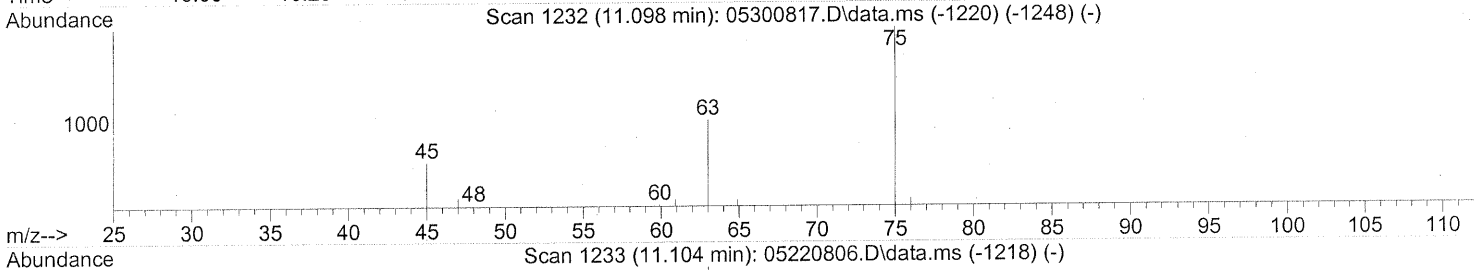
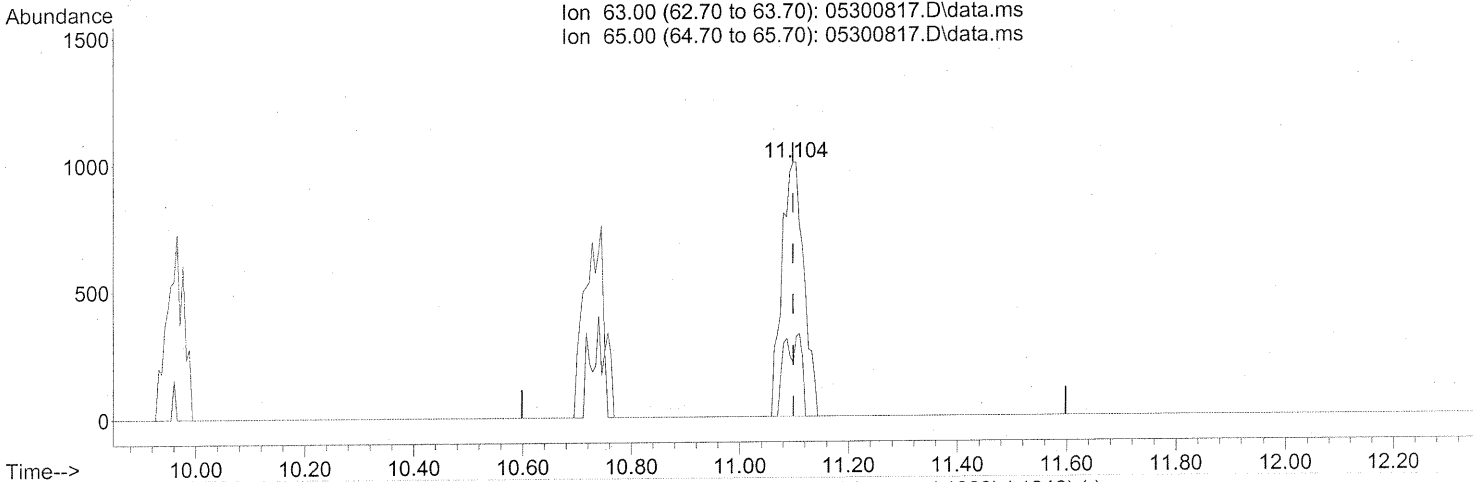
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	10.60
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.104min (+0.006) 0.08ng

response 2784

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	10.60
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

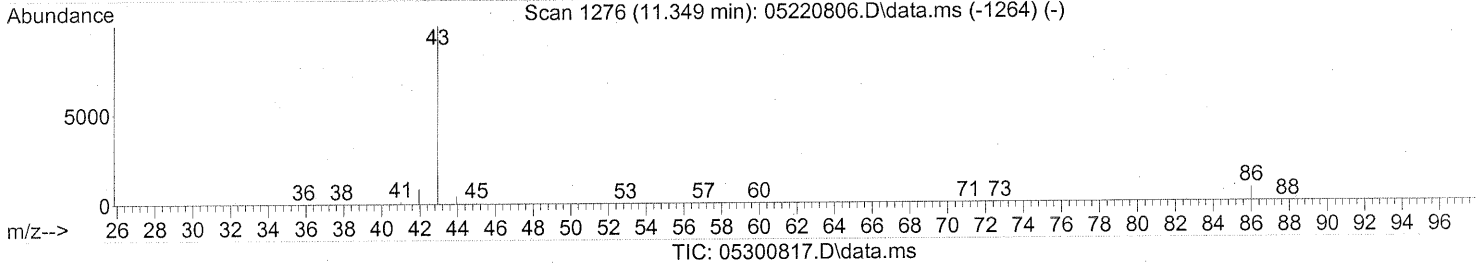
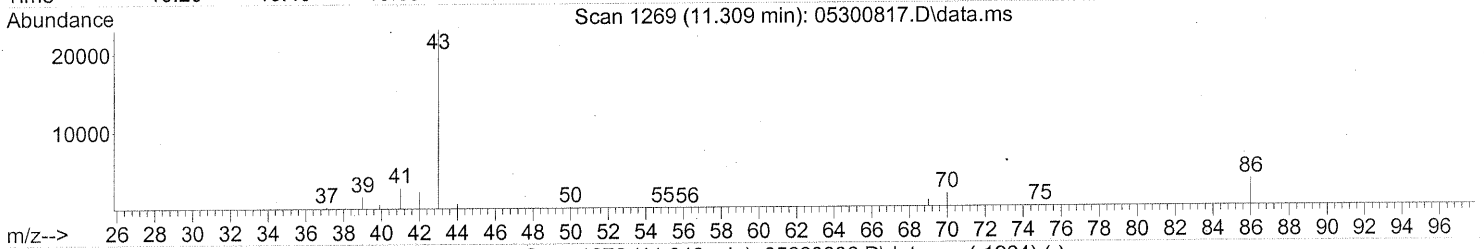
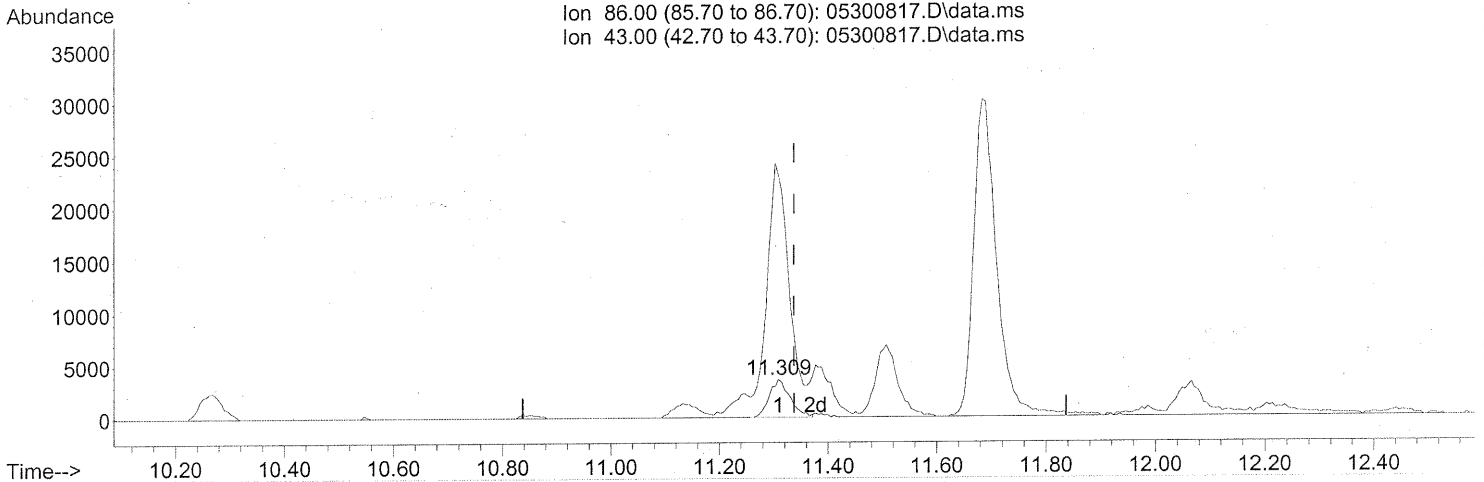
*Handwritten signature*

*Handwritten date: 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)  
 11.309min (-0.028) 2.90ng

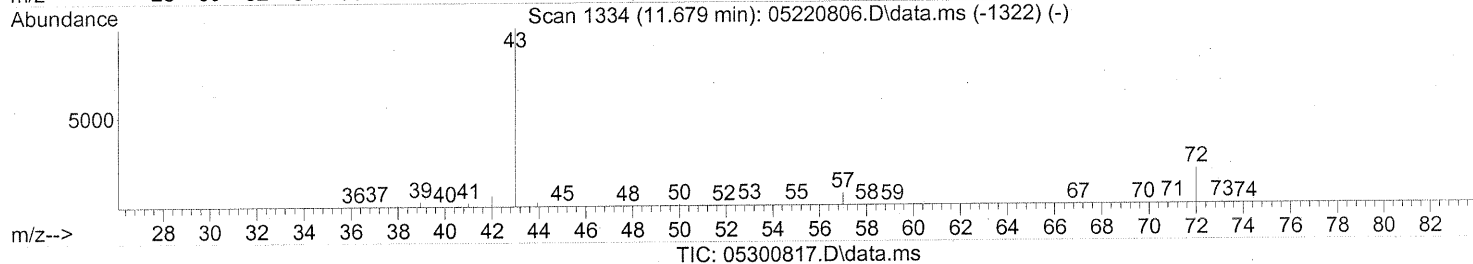
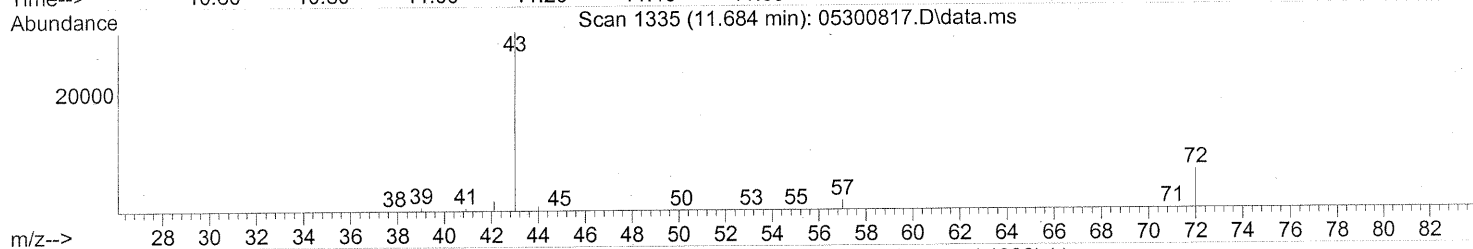
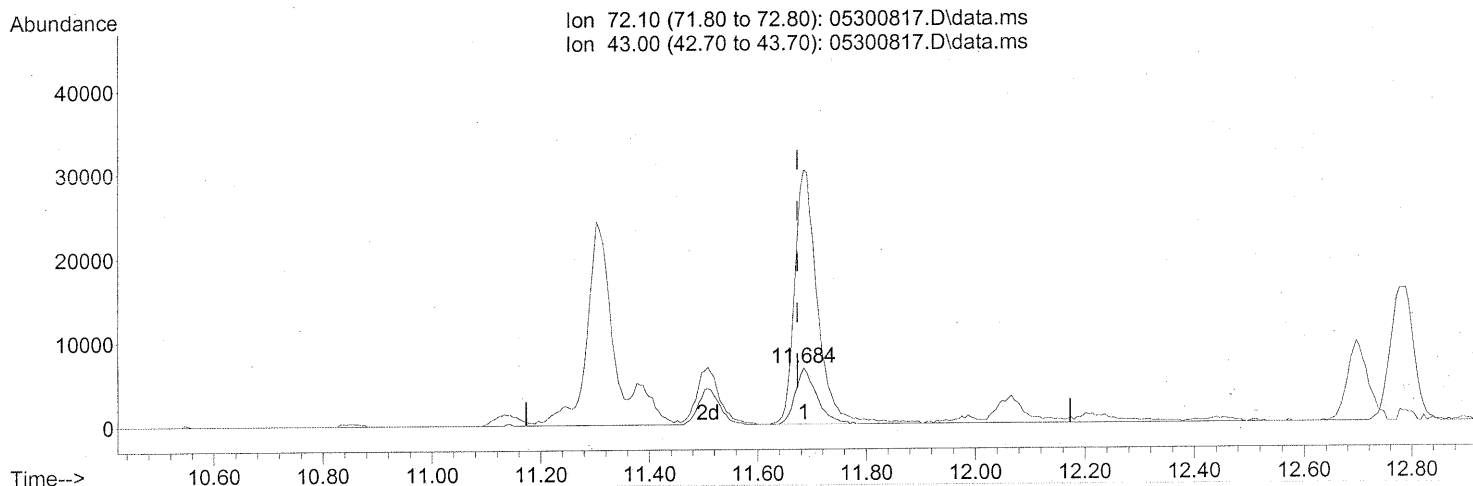
response 9418

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	713.65#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.684min (+0.011) 1.42ng

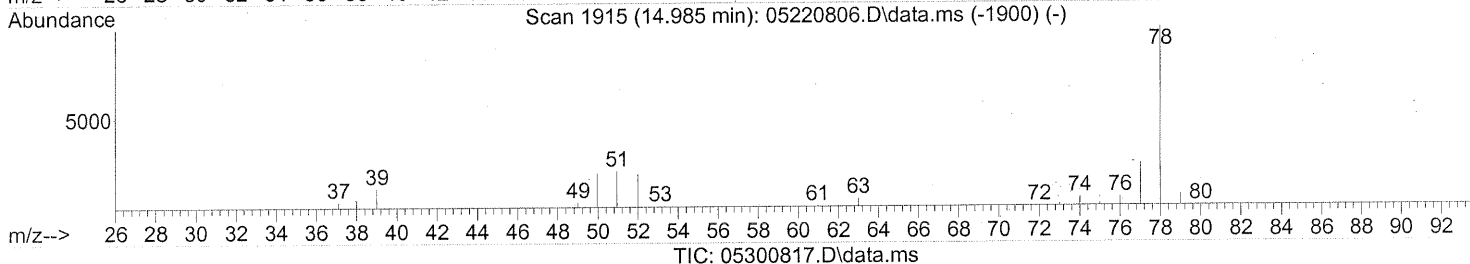
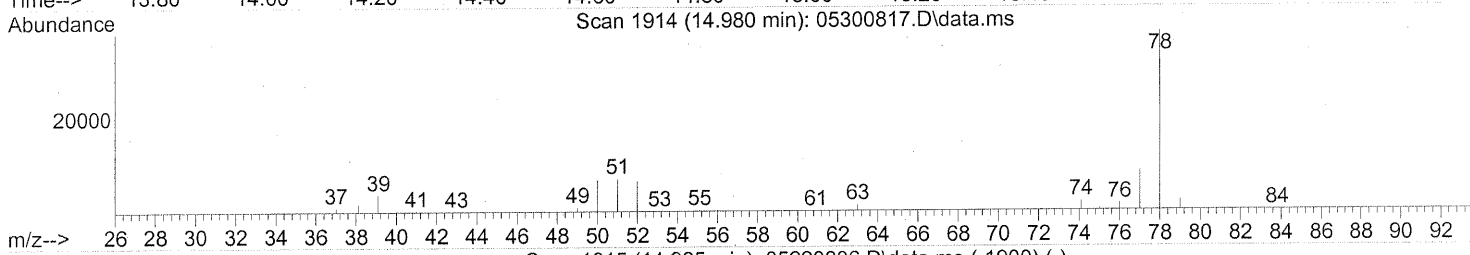
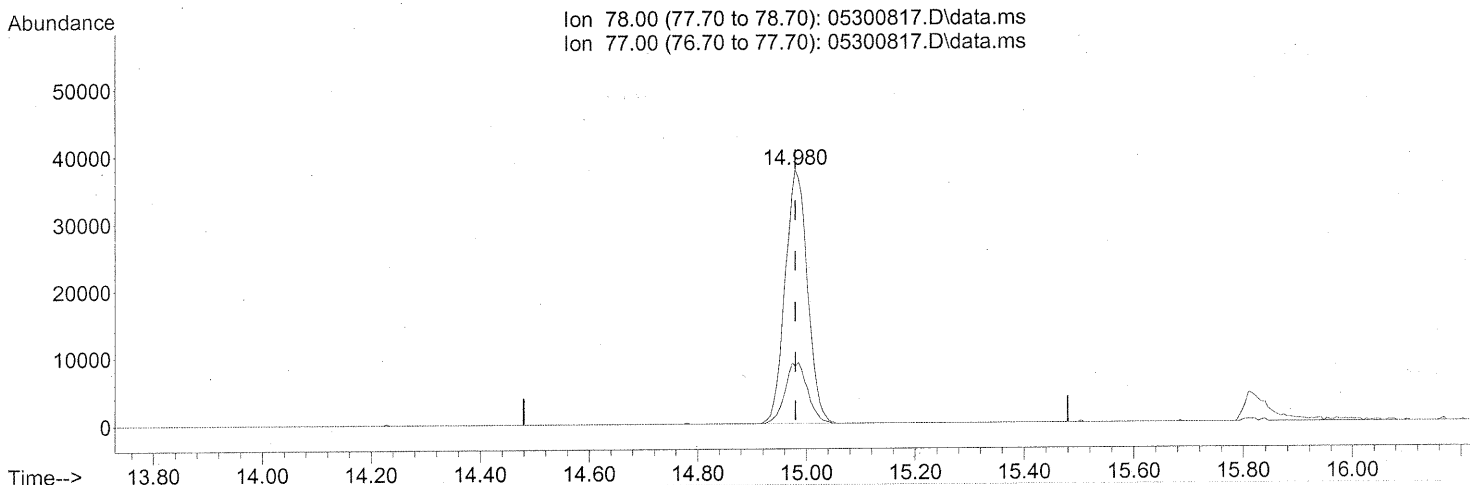
response 18219

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	484.26#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.980min (-0.000) 1.48ng

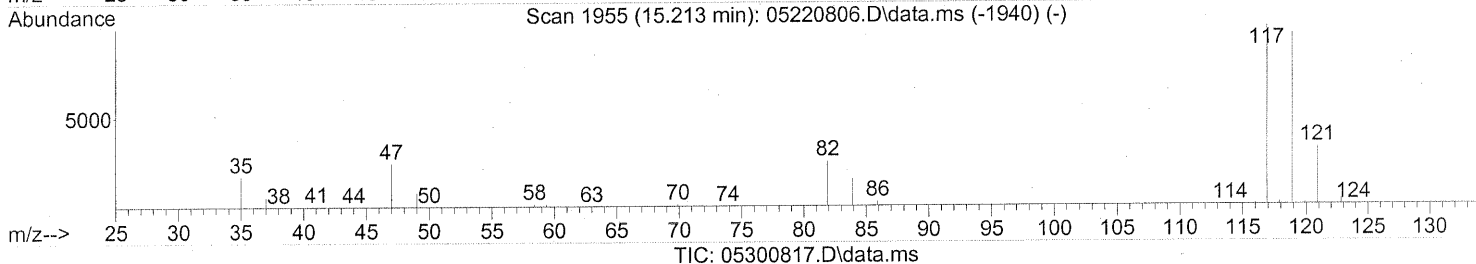
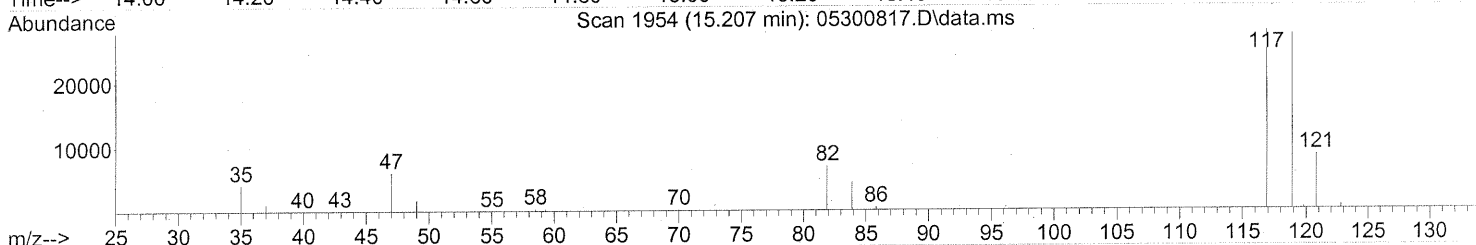
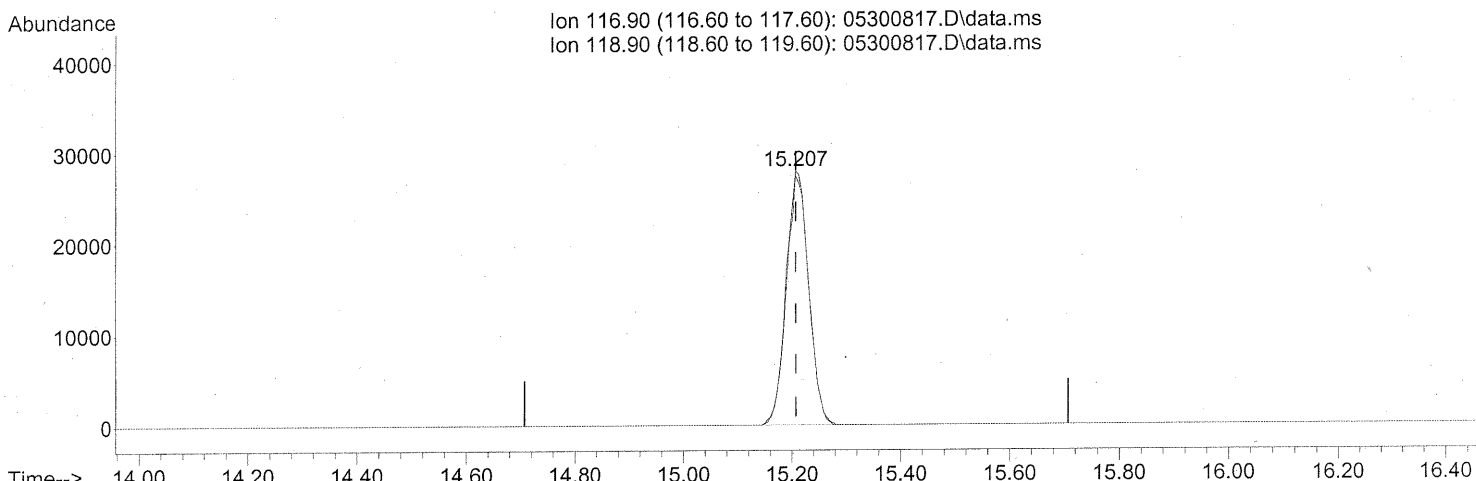
response 107114

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 2.88ng

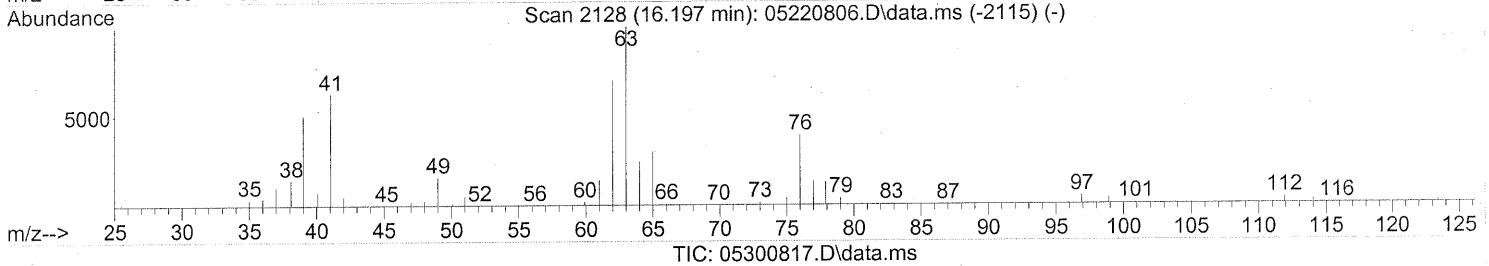
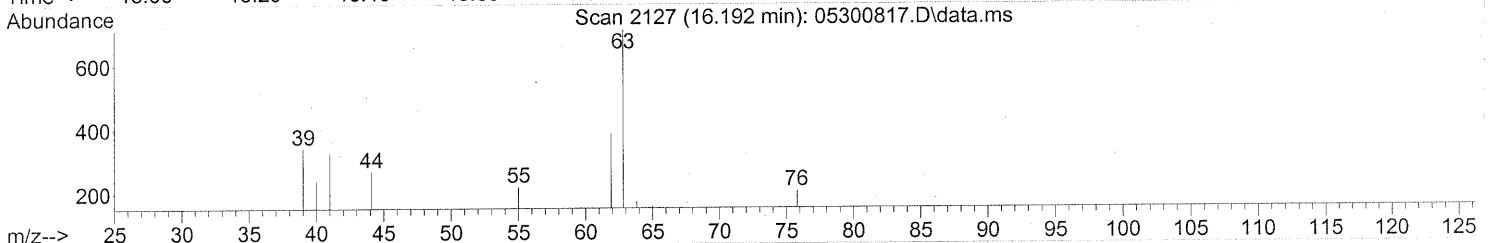
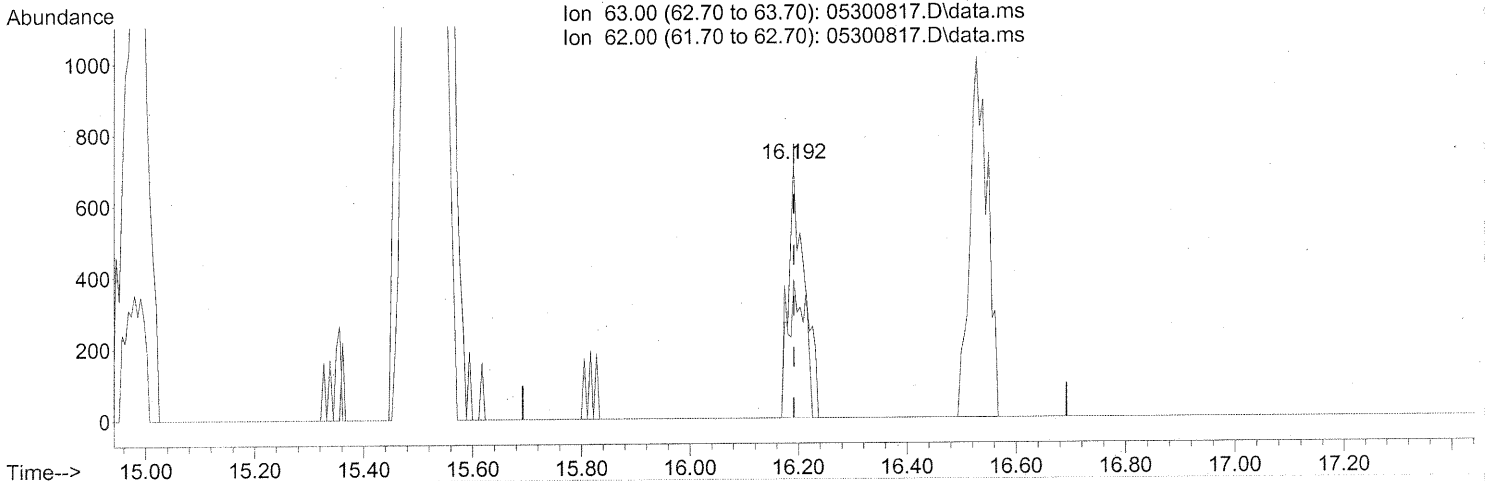
response 80272

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.192min (-0.000) 0.07ng

response 1432

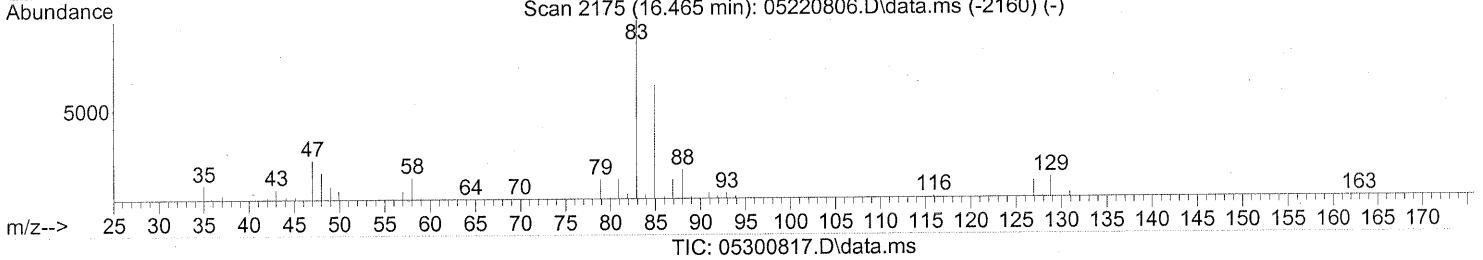
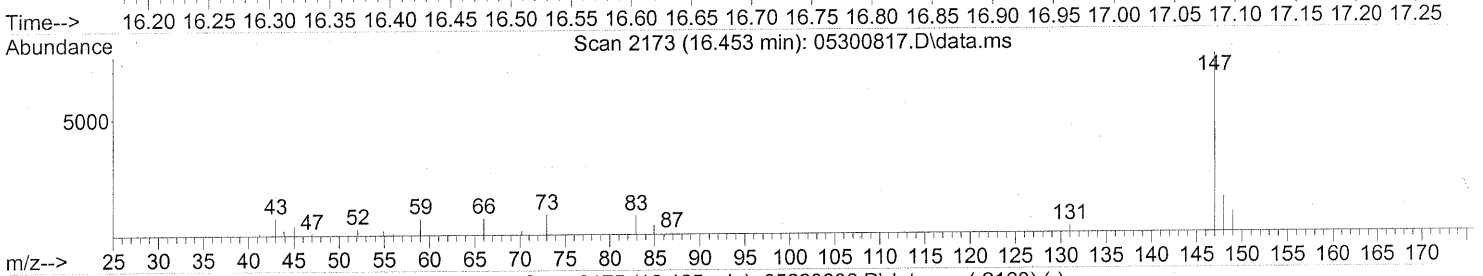
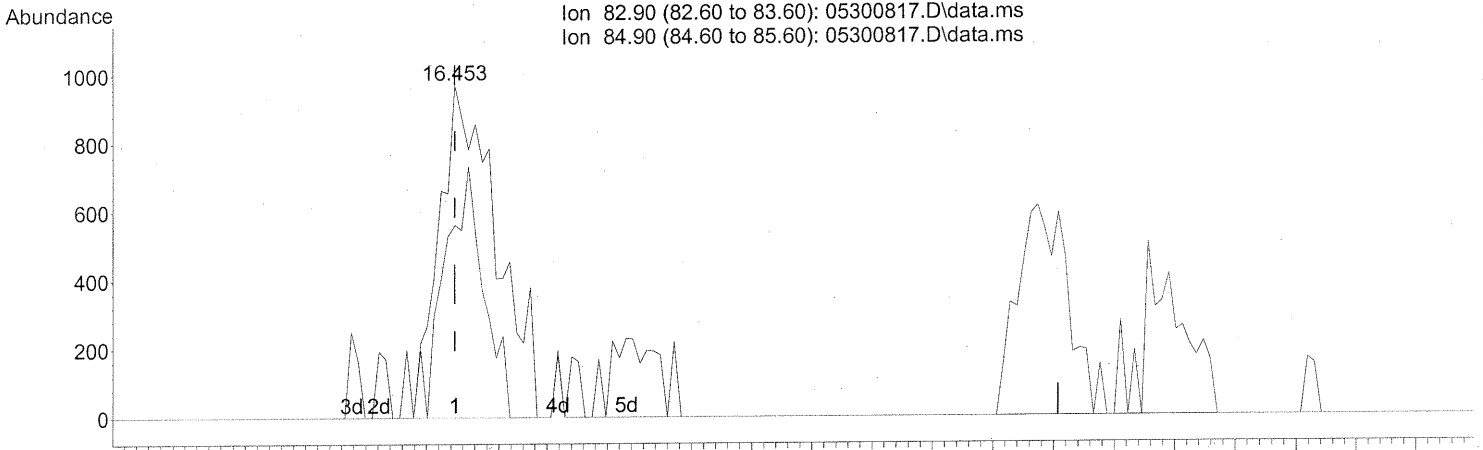
Ion	Exp%	Act%
63.00	100	100
62.00	71.30	62.43
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.453min (0.000) 0.13ng

response 3255

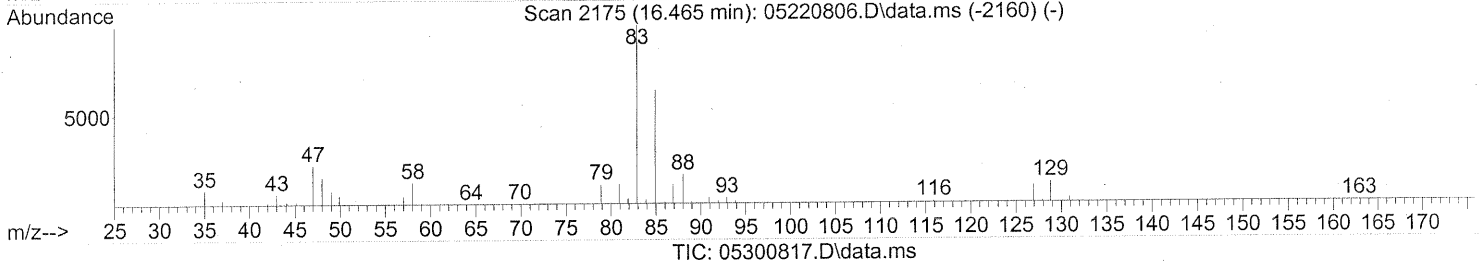
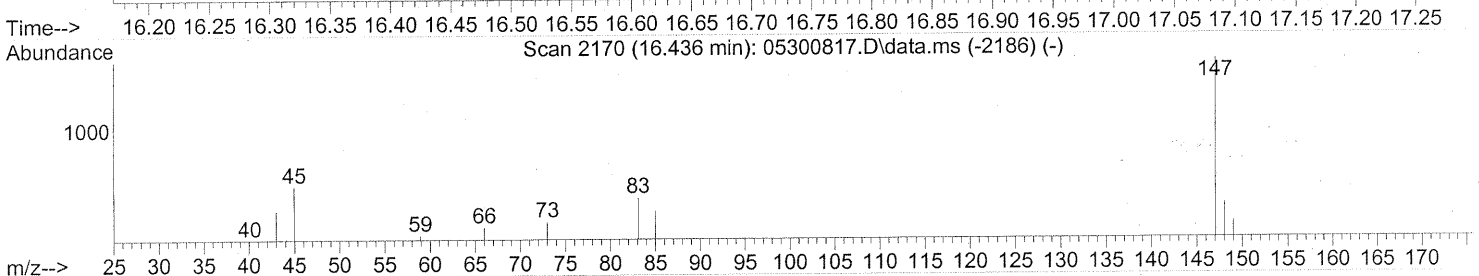
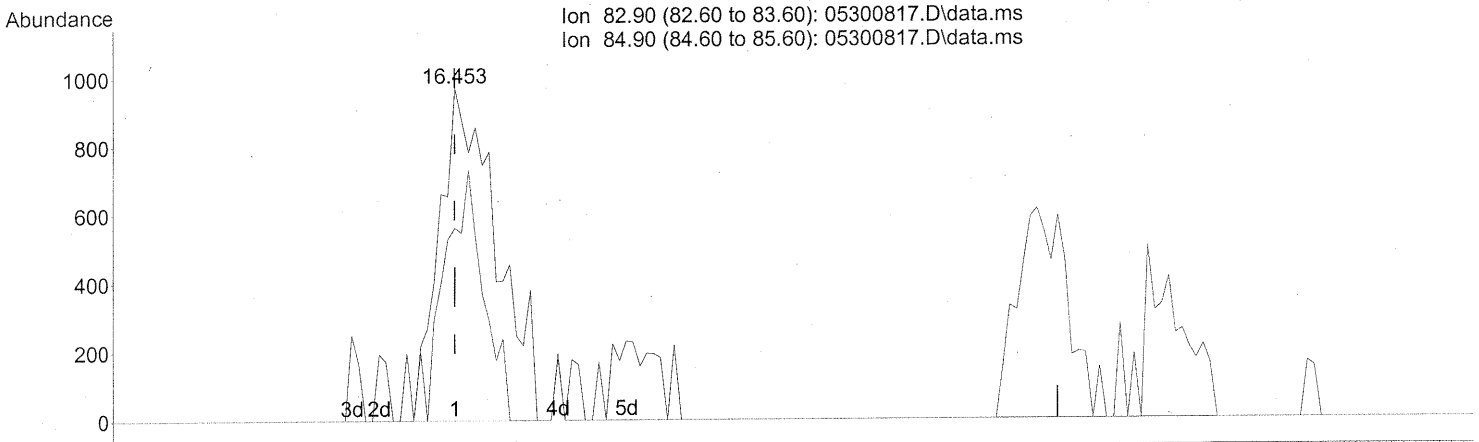
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	51.12
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTPN*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.453min (0.000) 0.13ng

response 3255

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	51.12
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

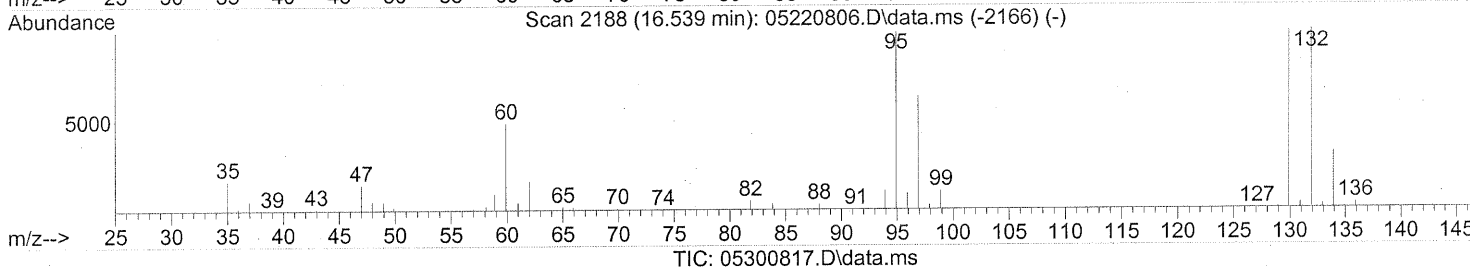
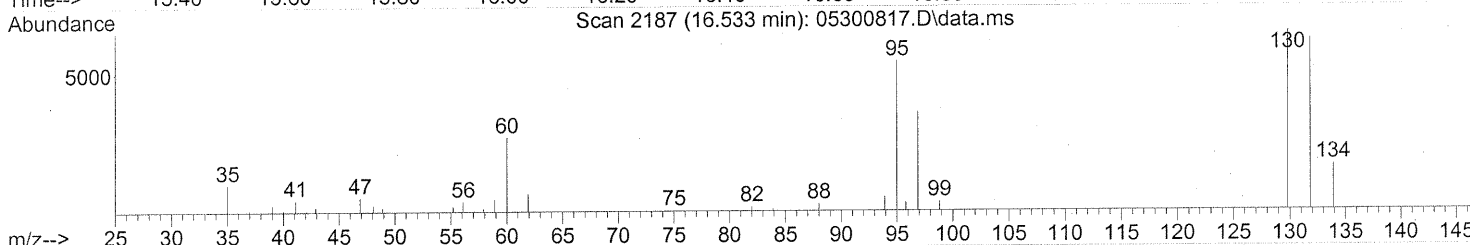
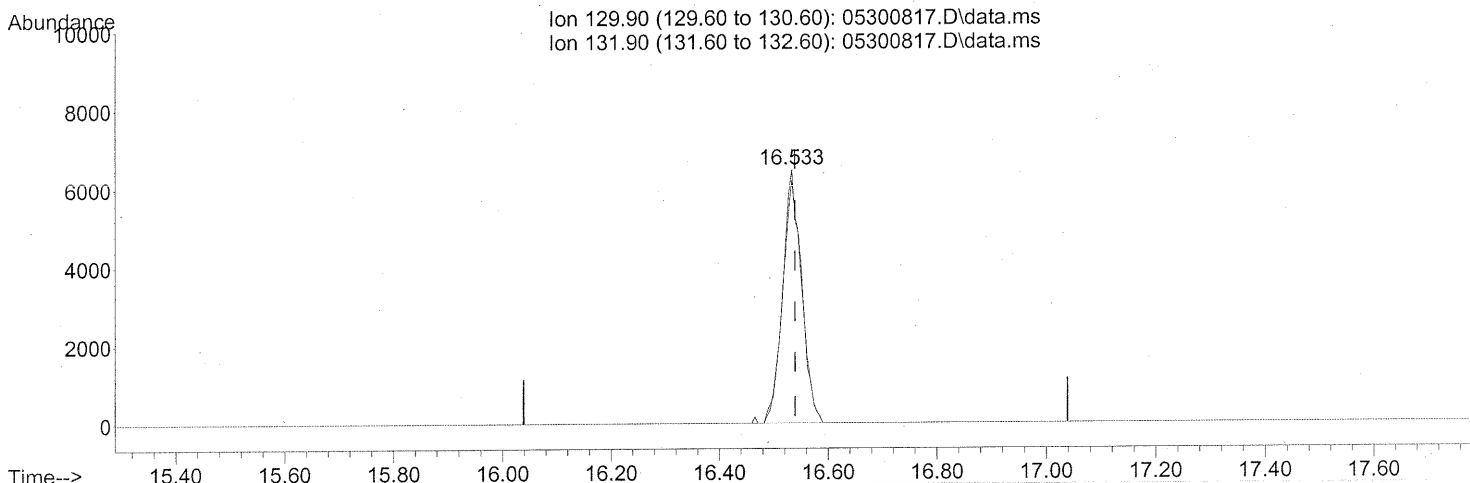
F. D. G. / 04/08

E. 6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 0.69ng

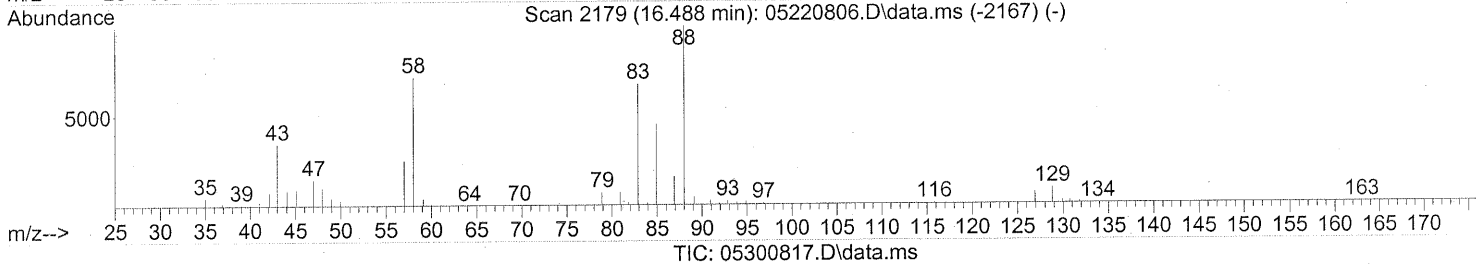
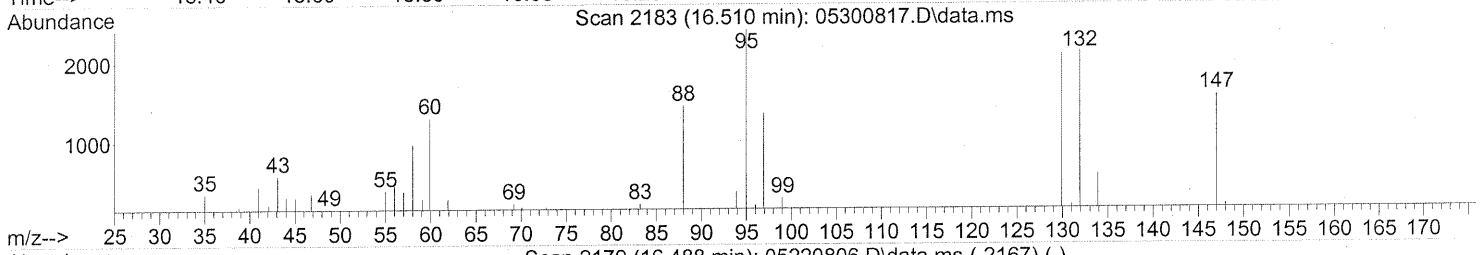
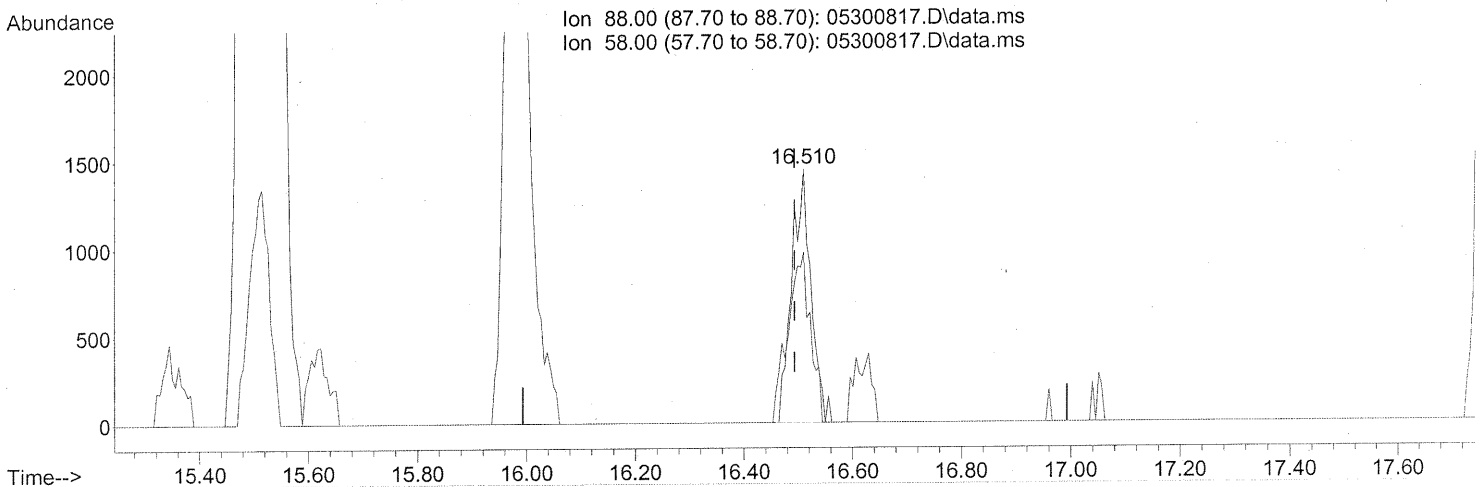
response 15228

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.510min (+0.017) 0.26ng

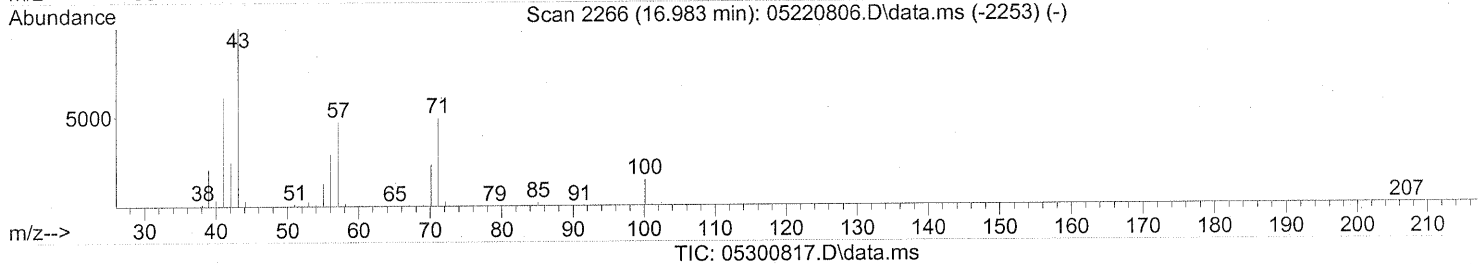
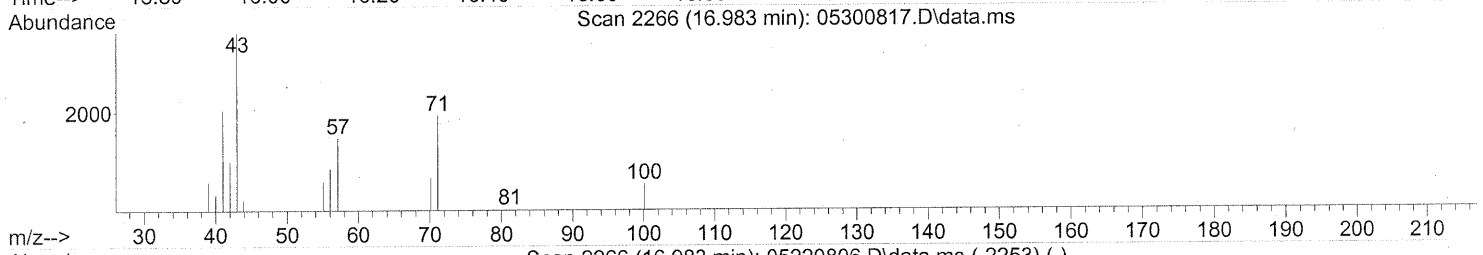
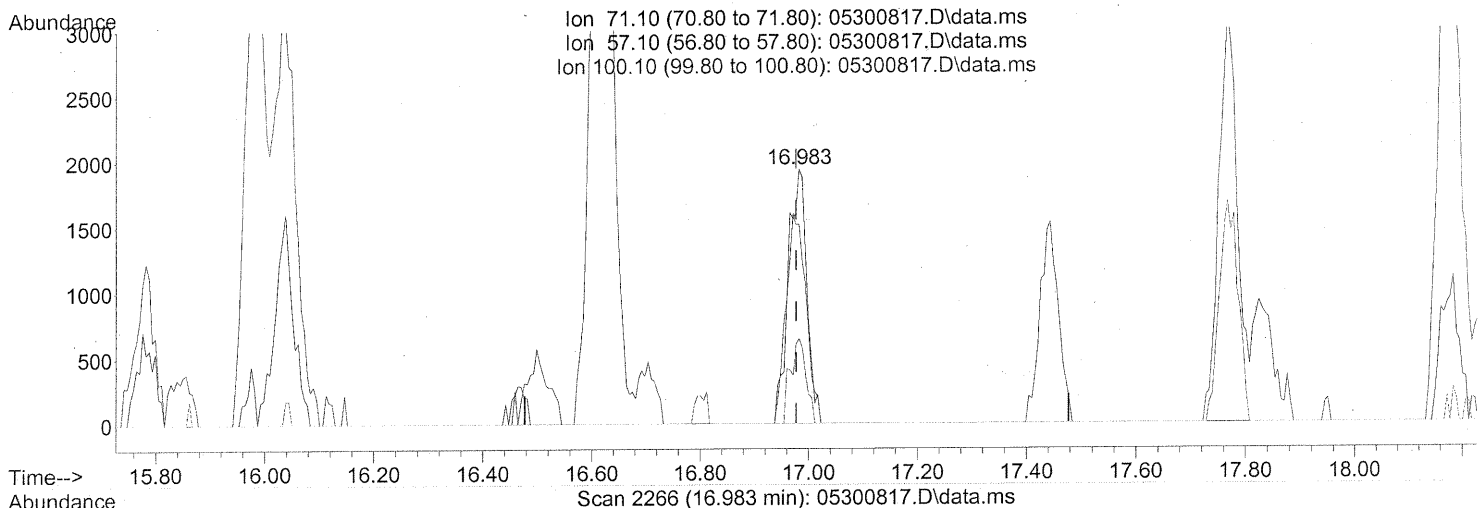
response 3560

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	78.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



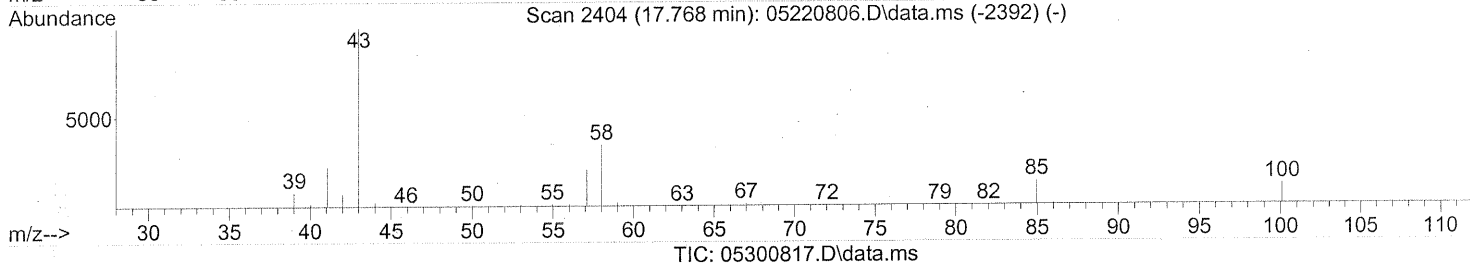
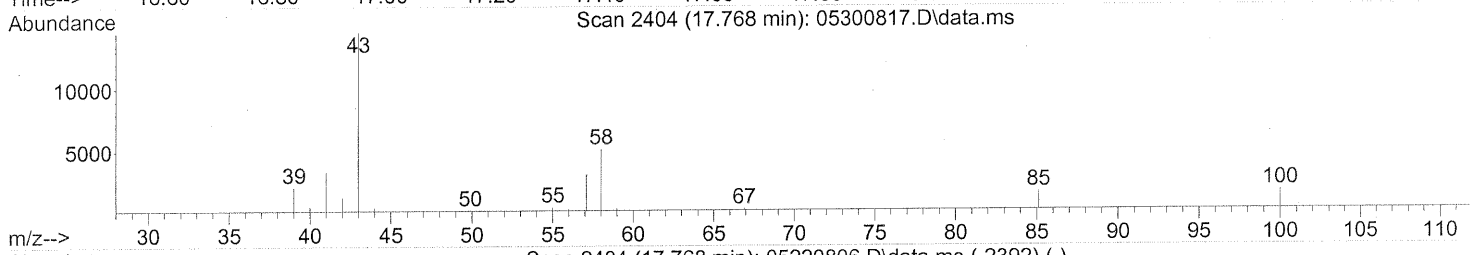
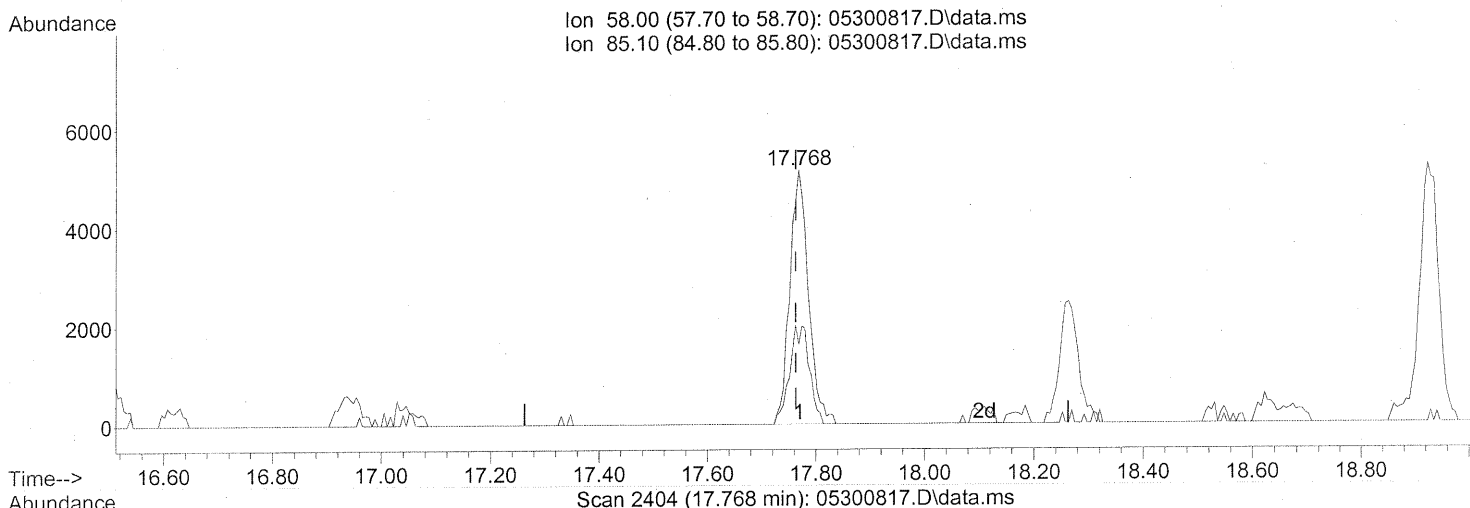
(51) n-Heptane (T)  
 16.983min (+0.006) 0.24ng  
 response 4603

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	88.59#
100.10	30.10	28.16
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.768min (+0.006) 0.64ng

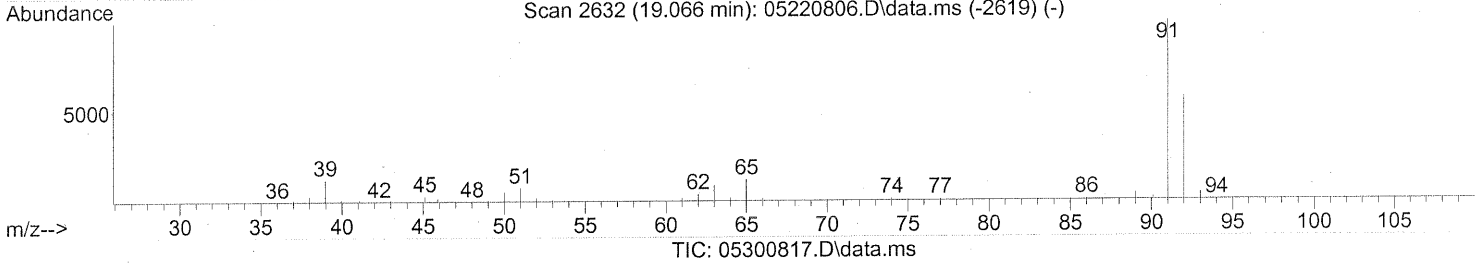
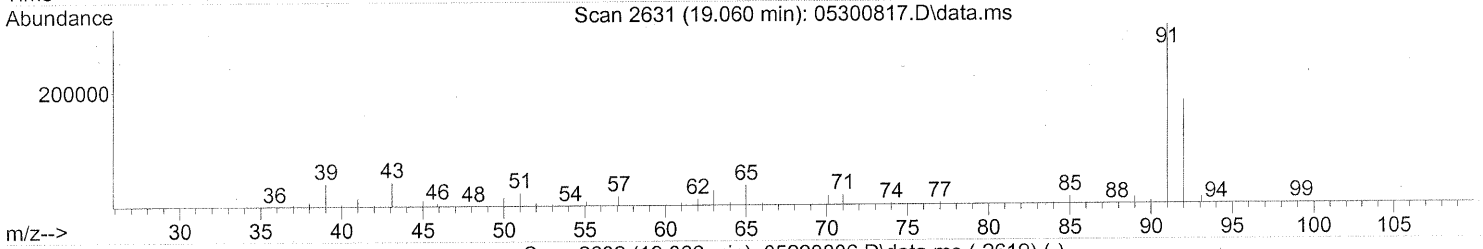
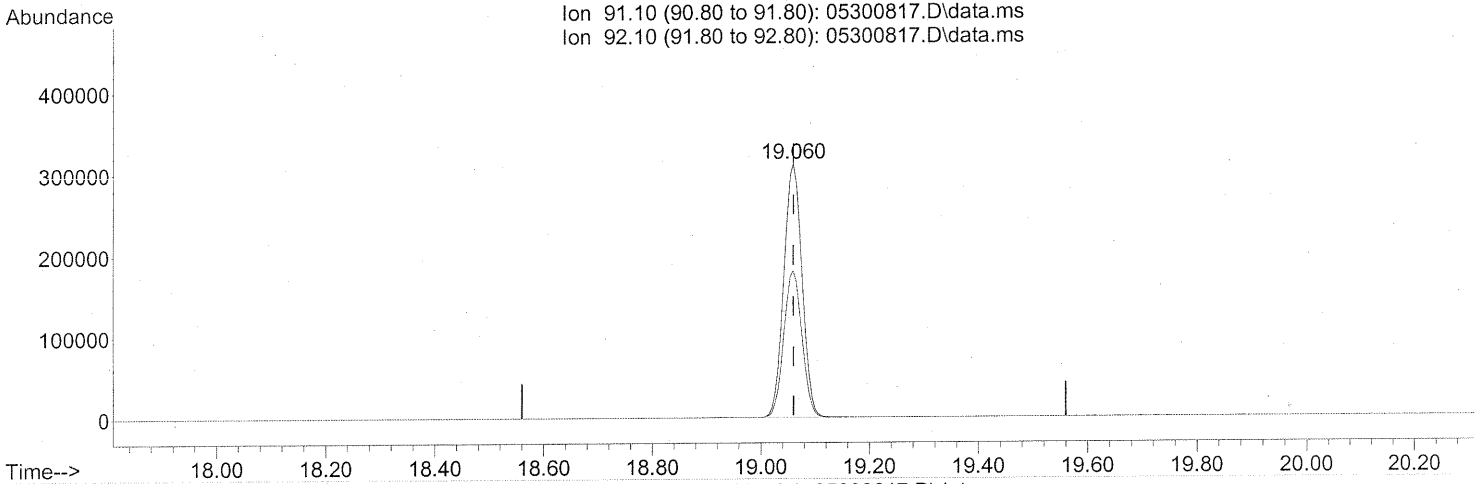
response 12309

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	41.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



TIC: 05300817.D\data.ms

(58) Toluene (T)

19.060min (-0.000) 9.15ng

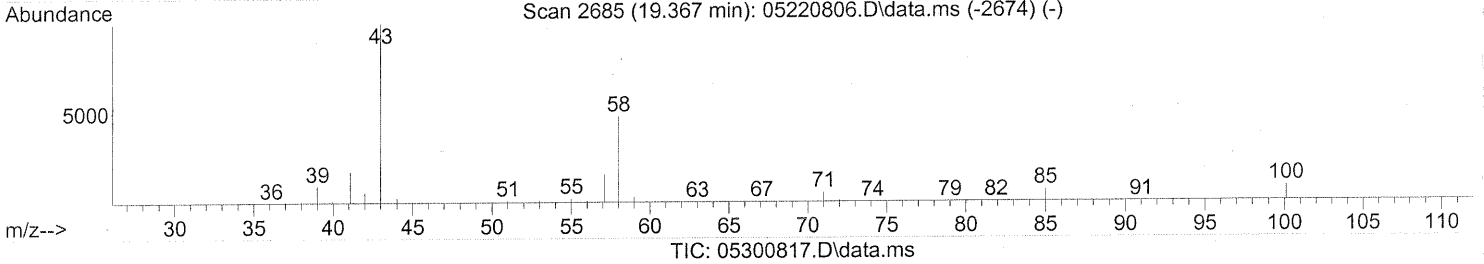
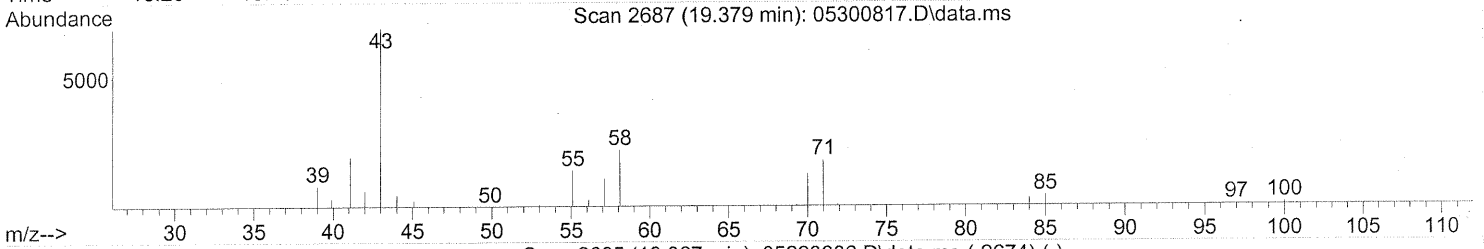
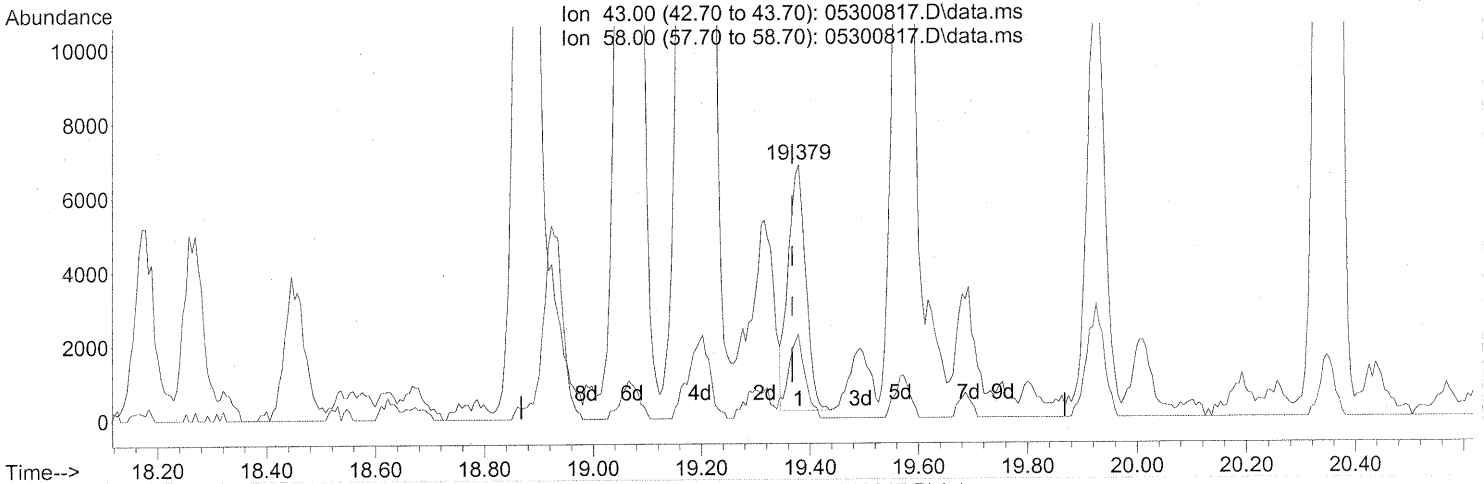
response 721024

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(59) 2-Hexanone (T)  
19.379min (+0.011) 0.27ng  
response 14853

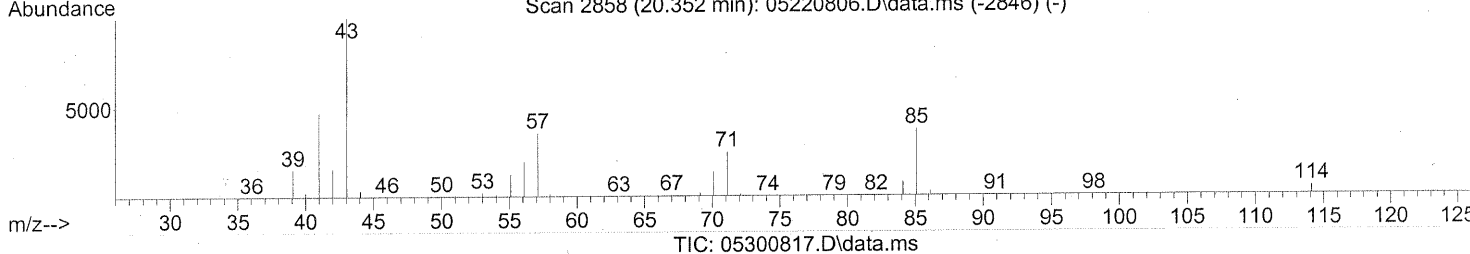
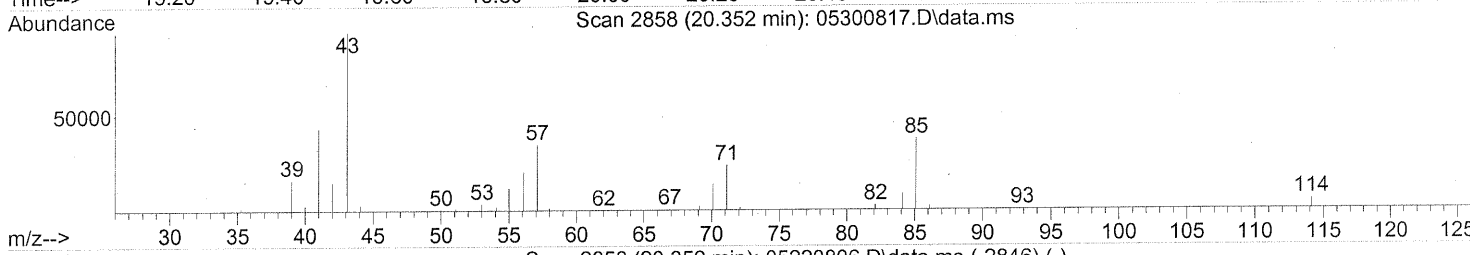
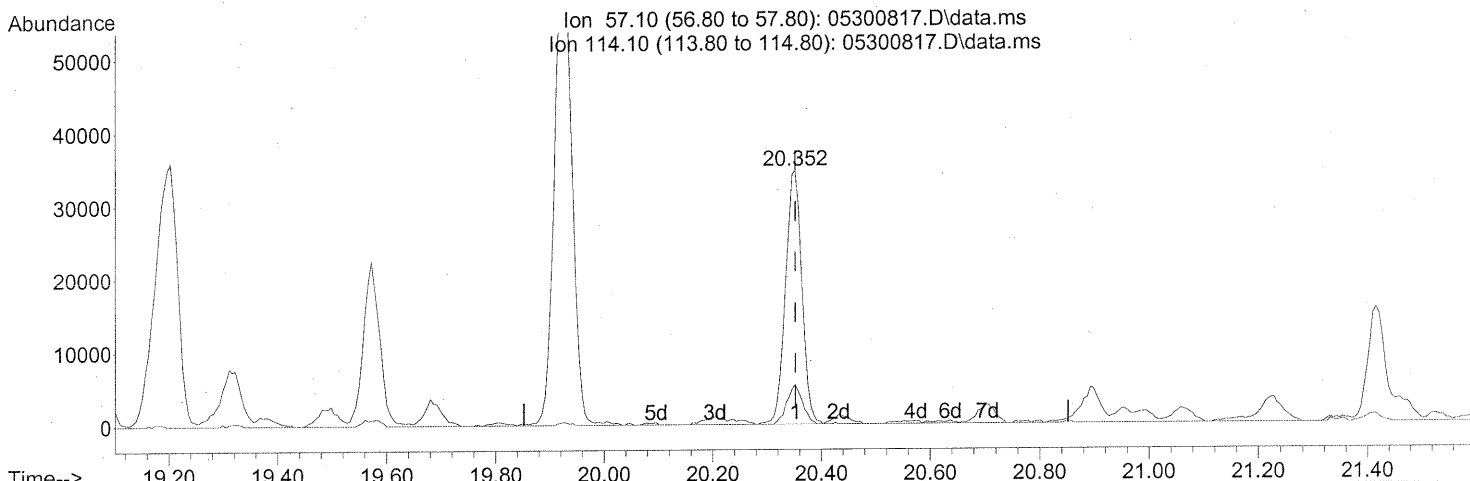
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	32.57#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 4.13ng

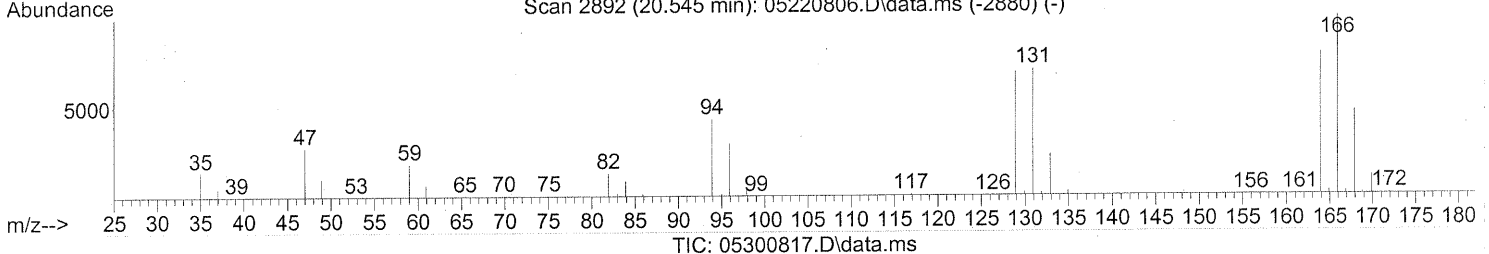
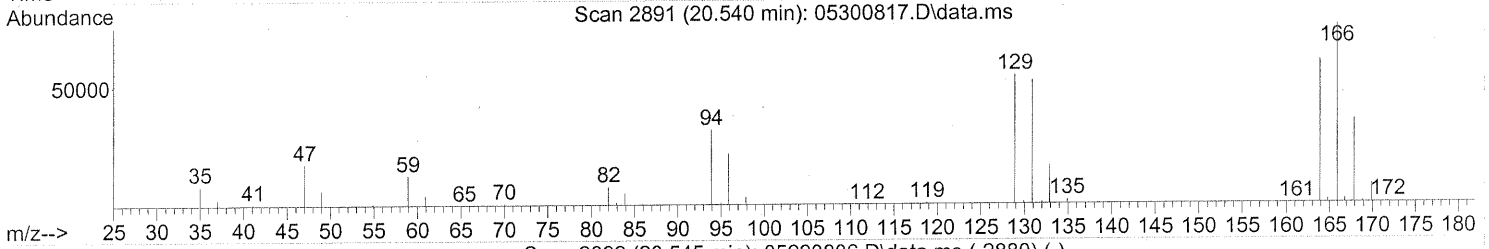
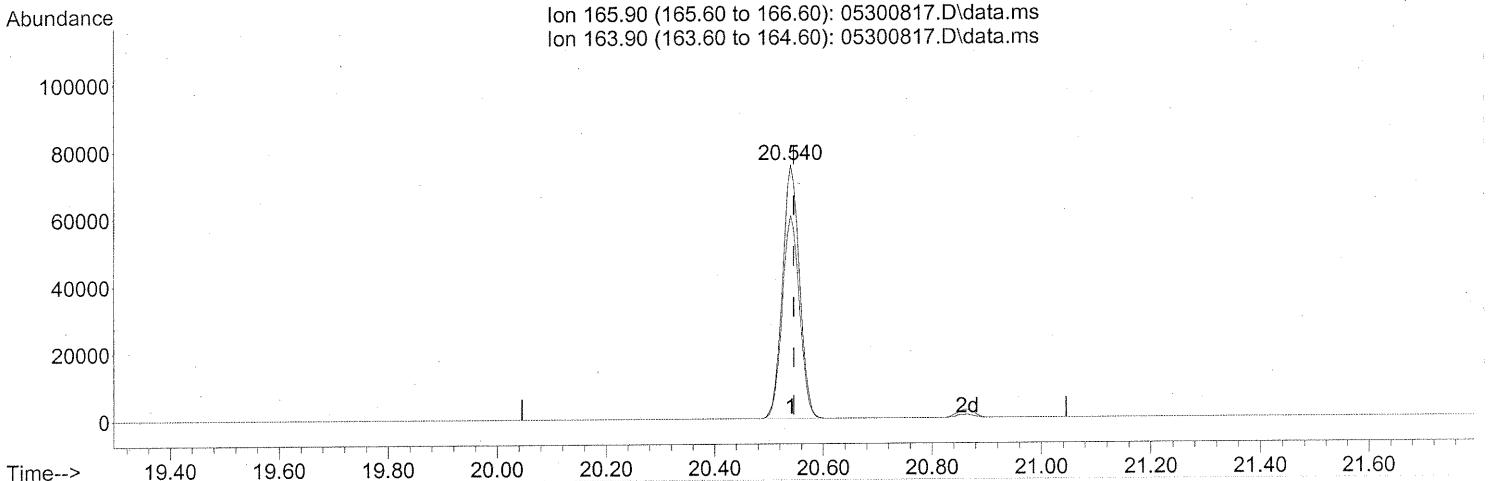
response 71988

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 7.03ng

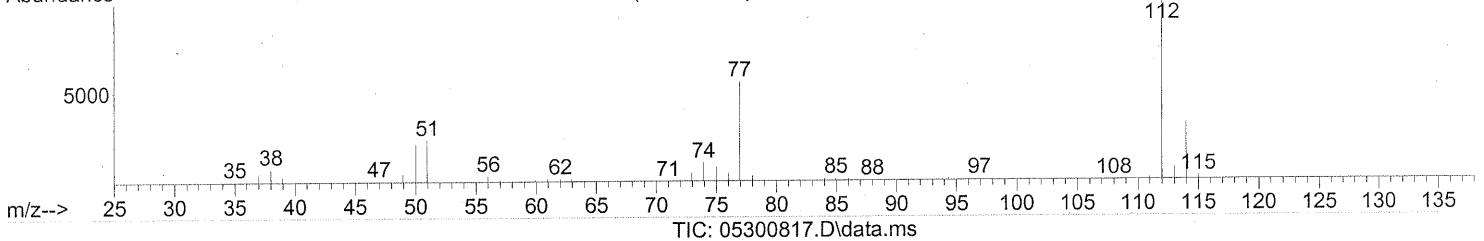
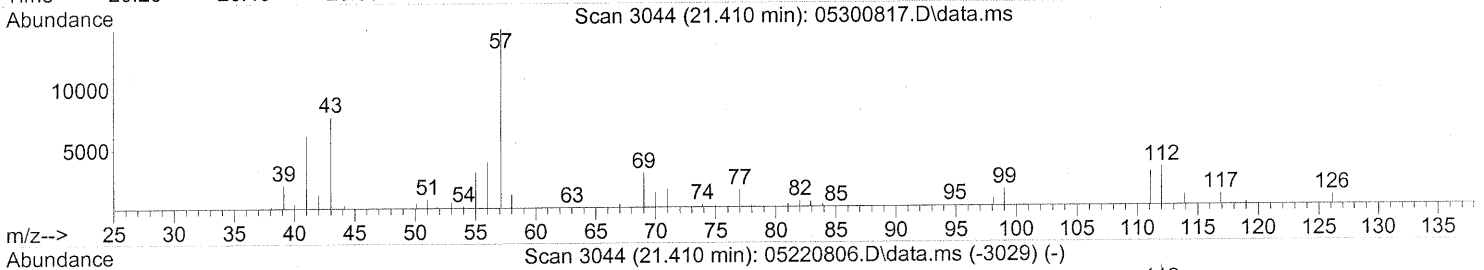
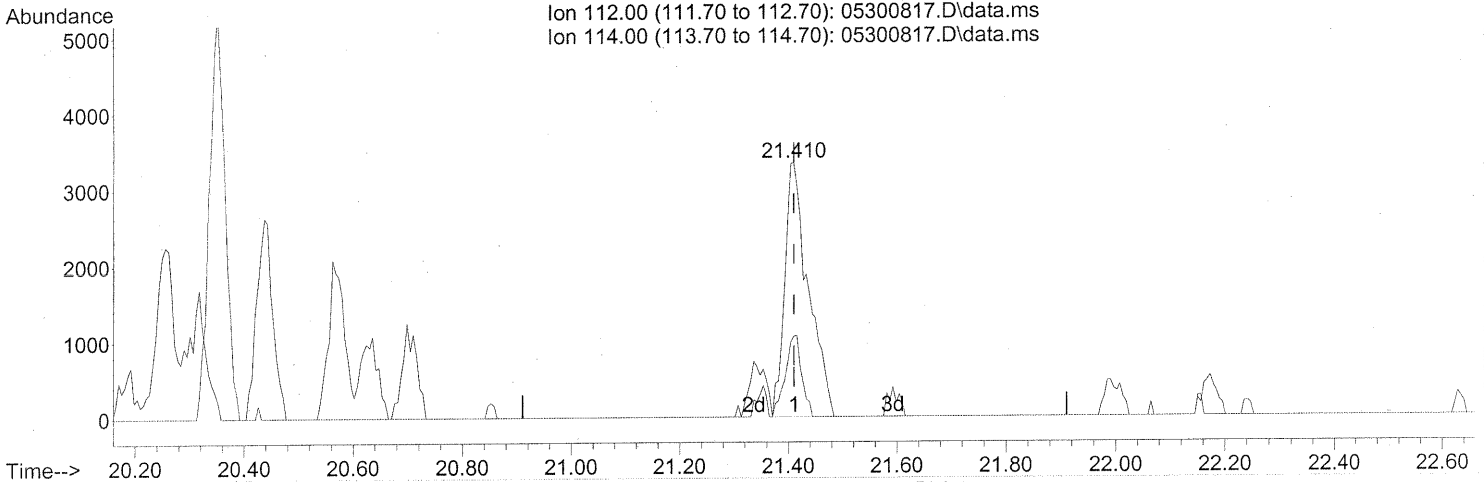
response 163848

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	80.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



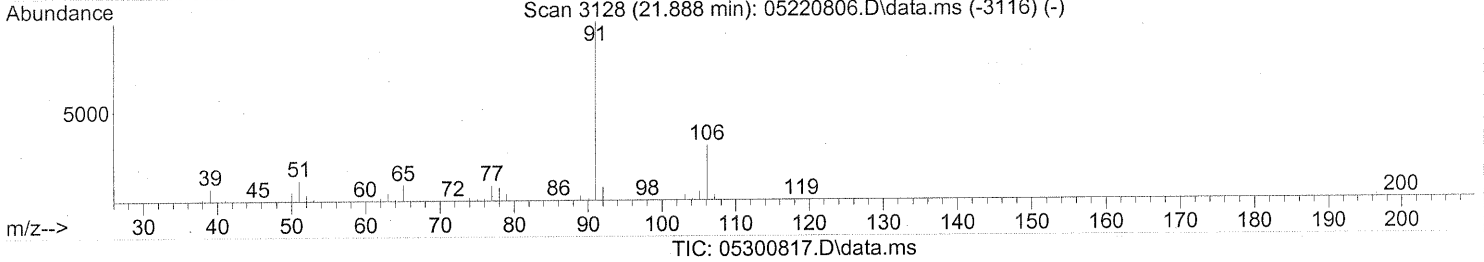
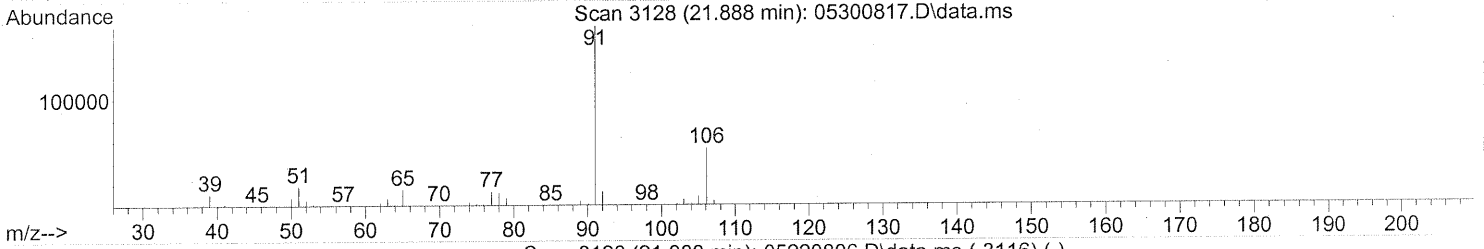
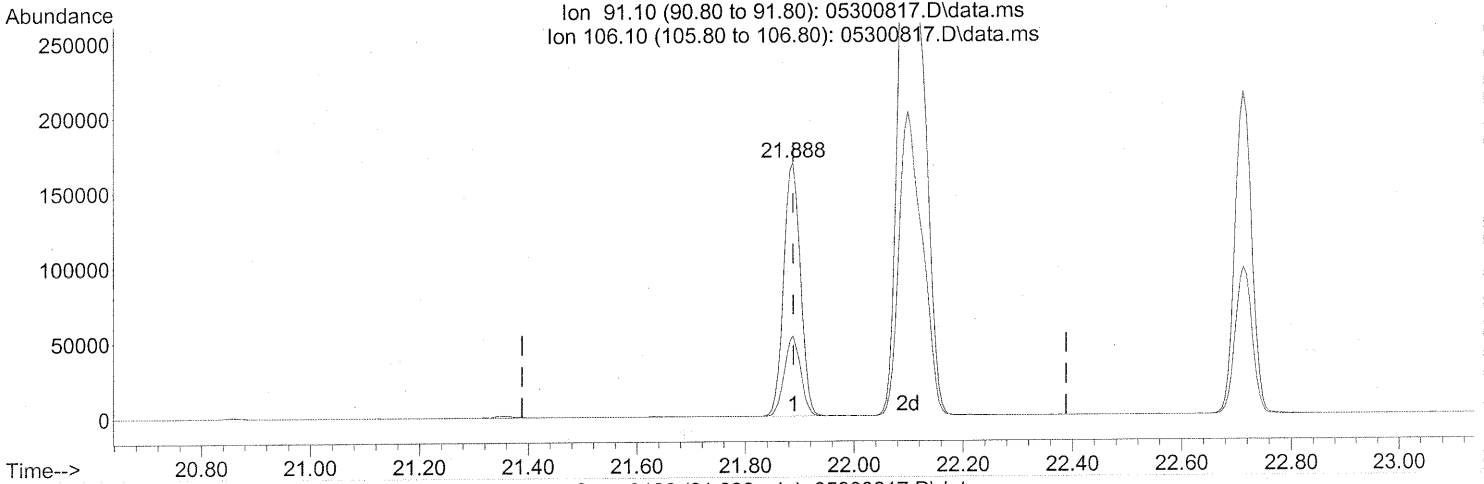
(65) Chlorobenzene (T)  
 21.410min (-0.000) 0.19ng  
 response 10052

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	22.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 4.00ng

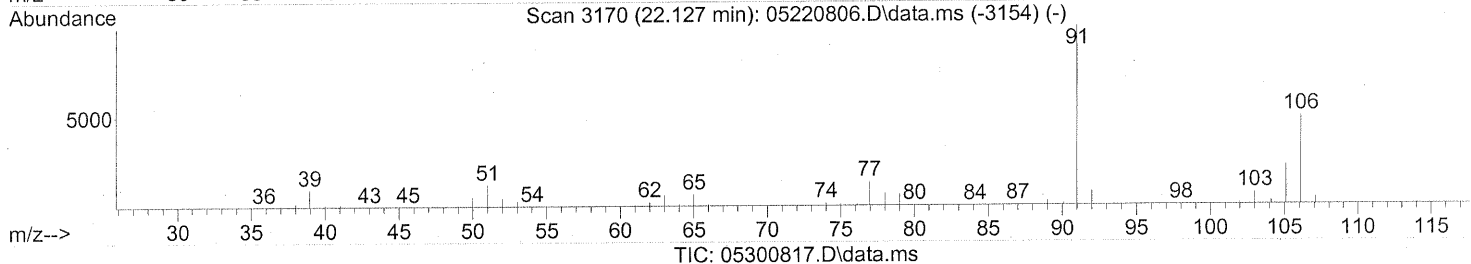
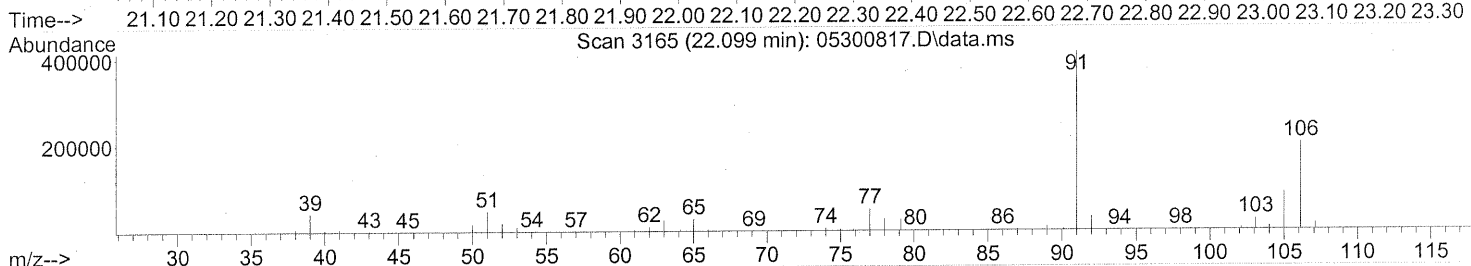
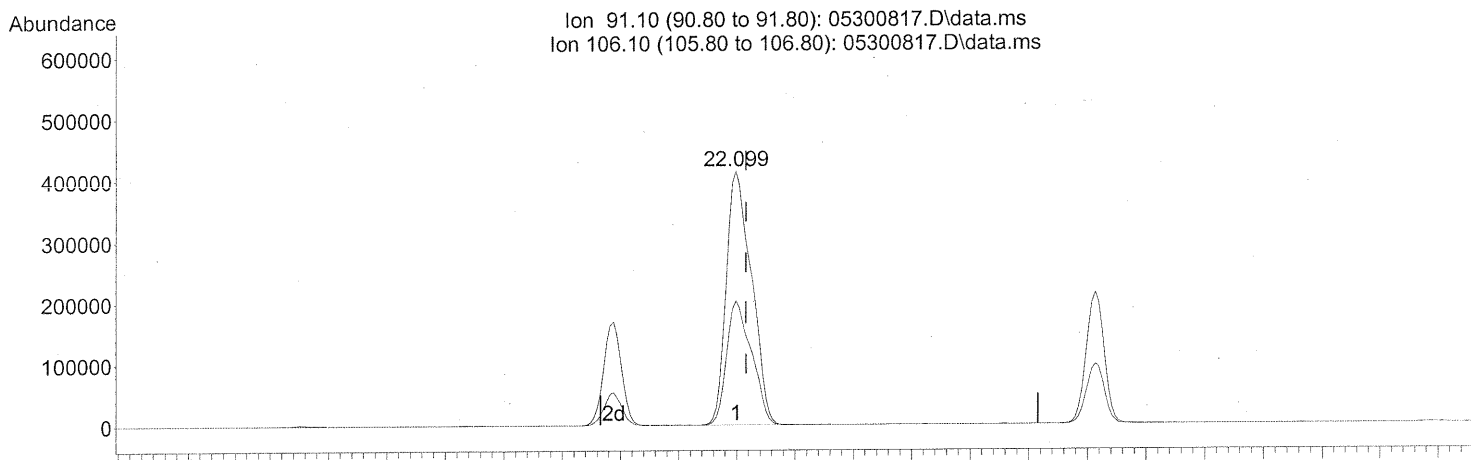
response 361348

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 20.54ng

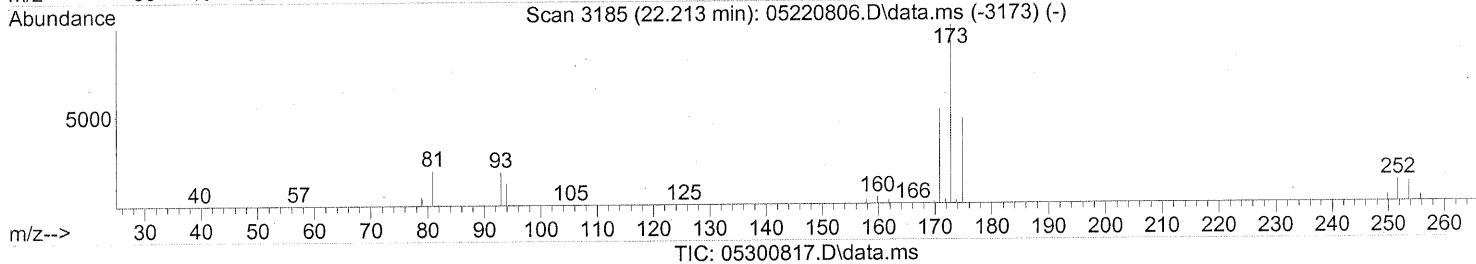
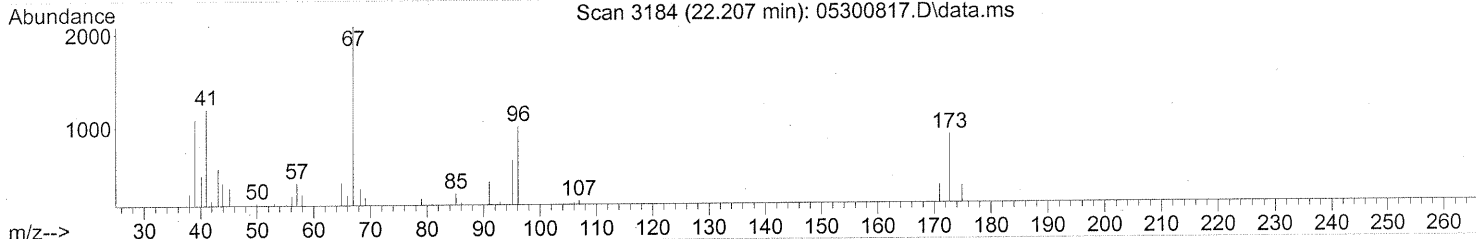
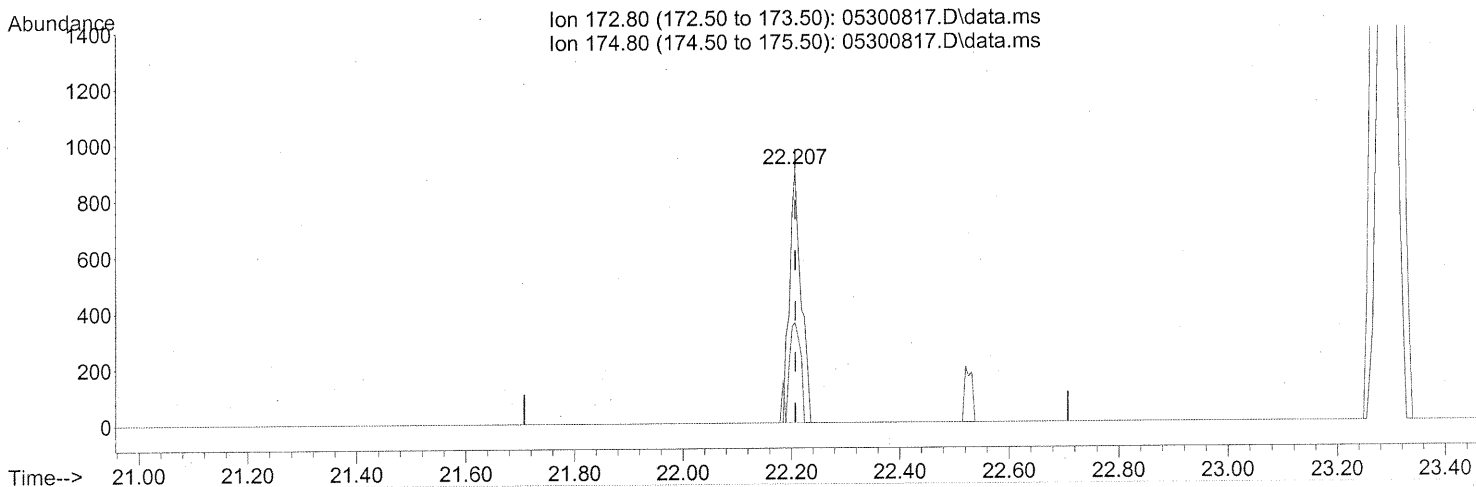
response 1241028

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(68) Bromoform (T)

22.207min (-0.000) 0.08ng

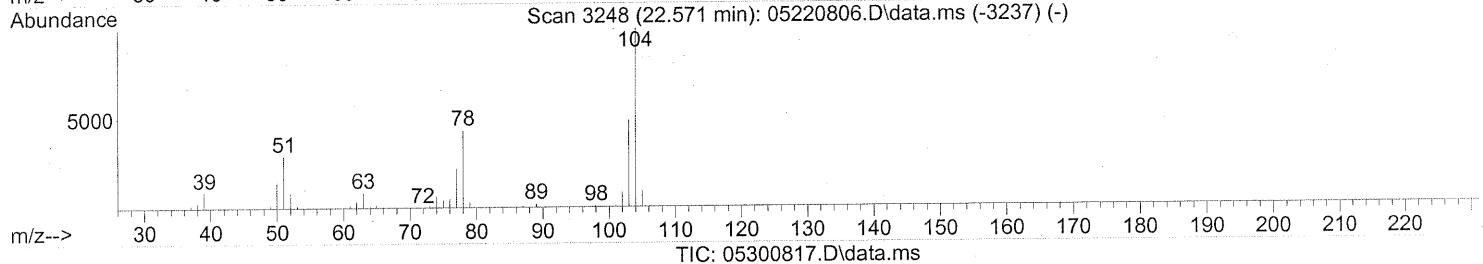
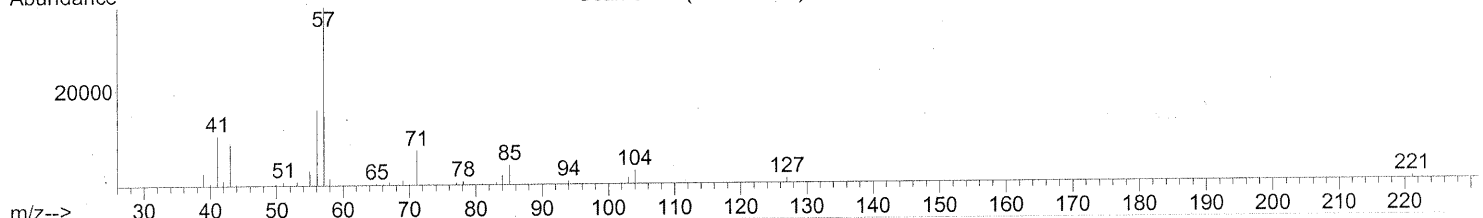
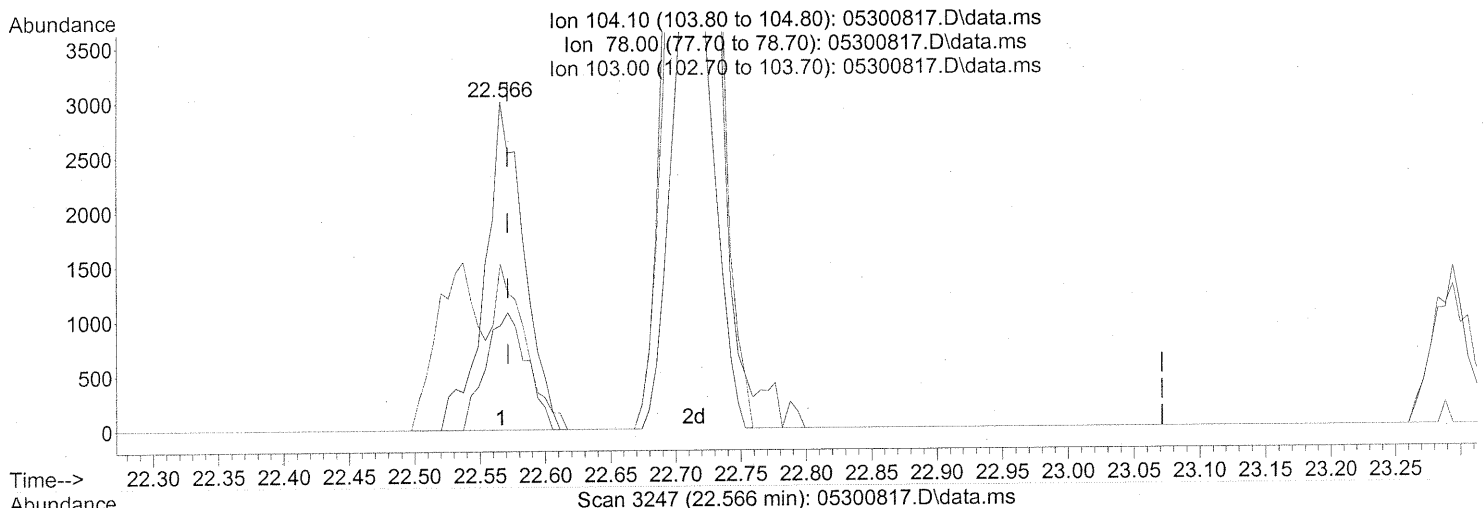
response 1345

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	40.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)  
 22.566min (-0.006) 0.11ng

response 6205

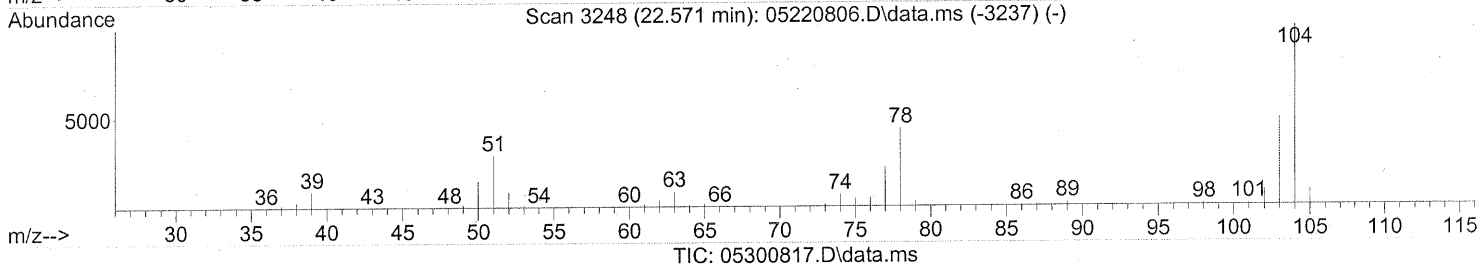
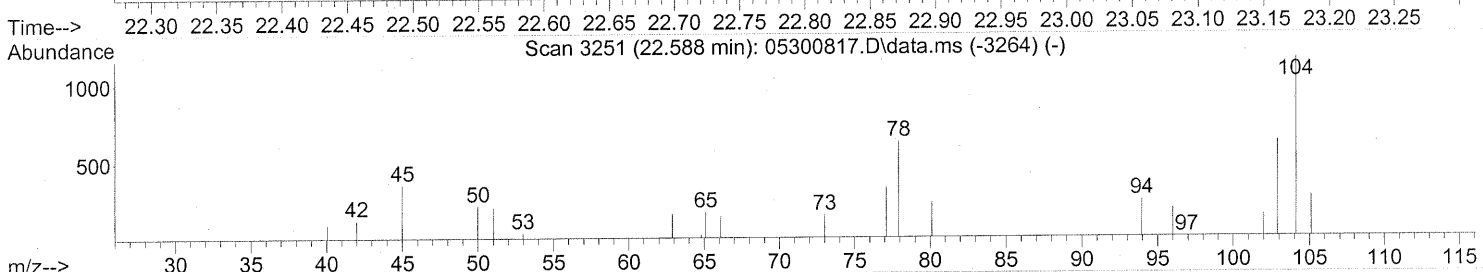
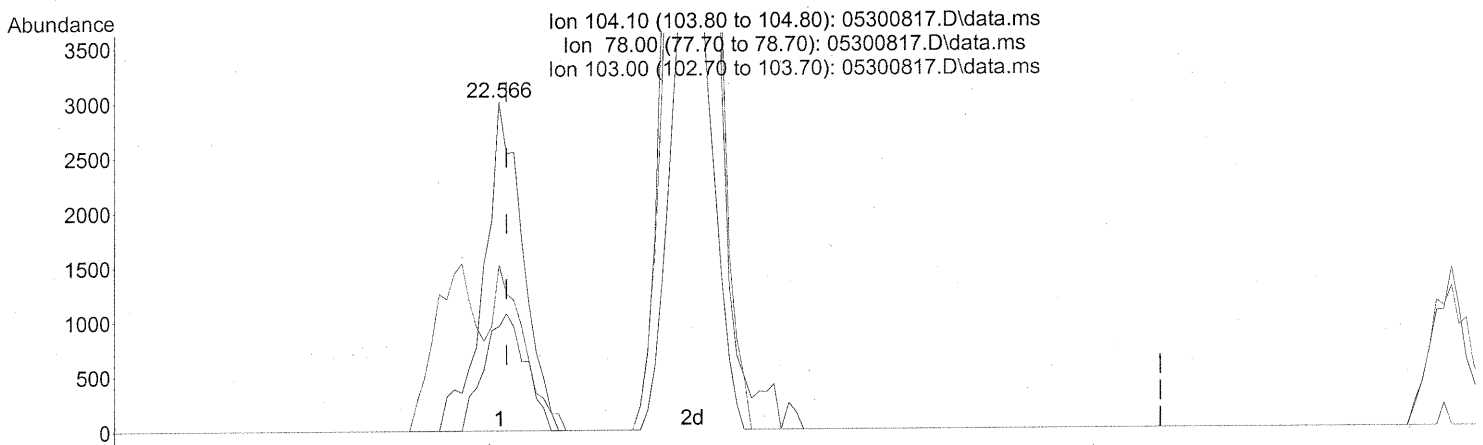
*BEFORE SUBTRACTION*

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	38.05
103.00	47.10	41.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(69) Styrene (T)

22.566min (-0.006) 0.11ng

response 6205

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	38.05
103.00	47.10	41.02
0.00	0.00	0.00

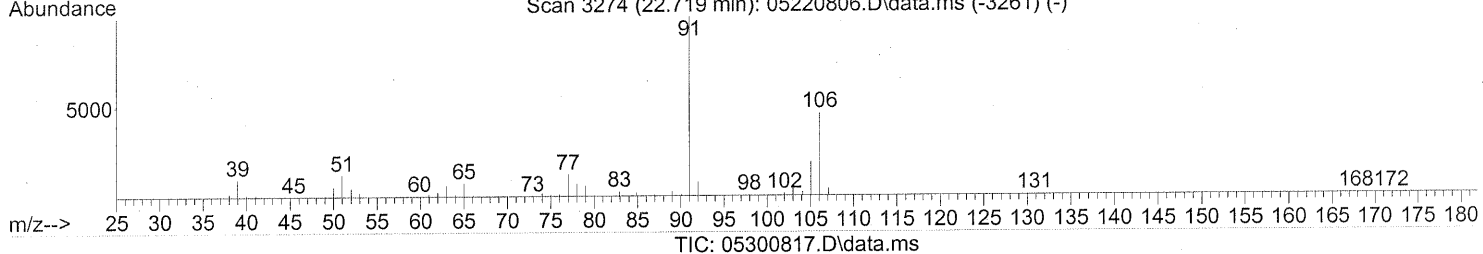
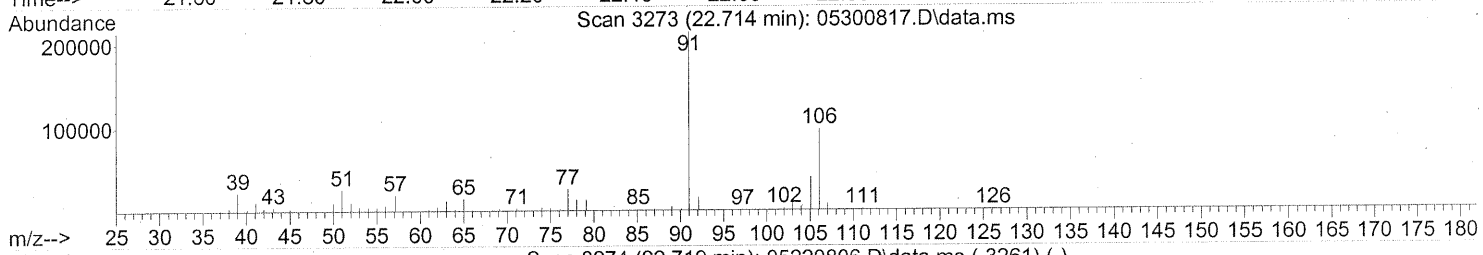
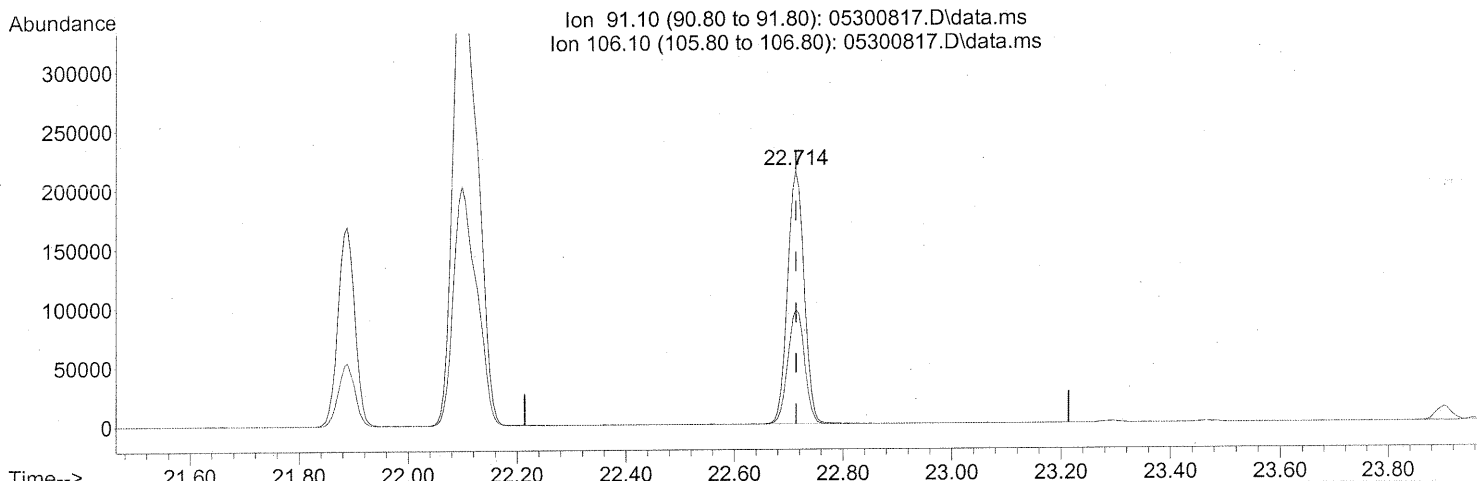
AFTER SUBTRACTION  
6/04/08  
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 6.97ng

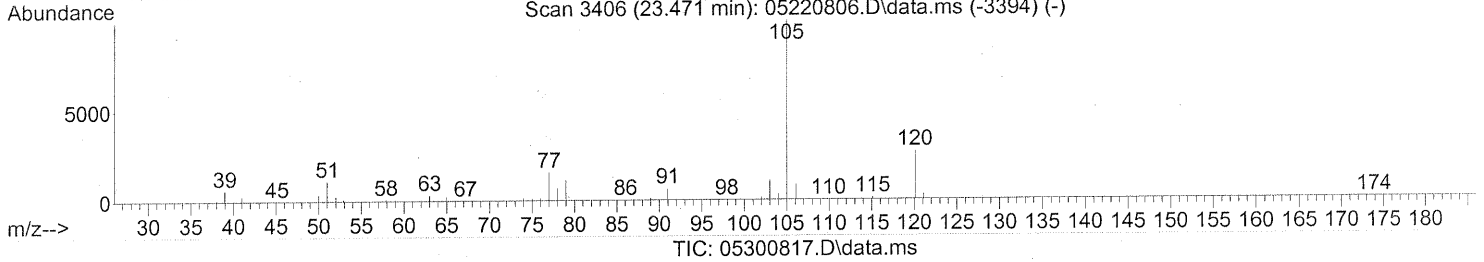
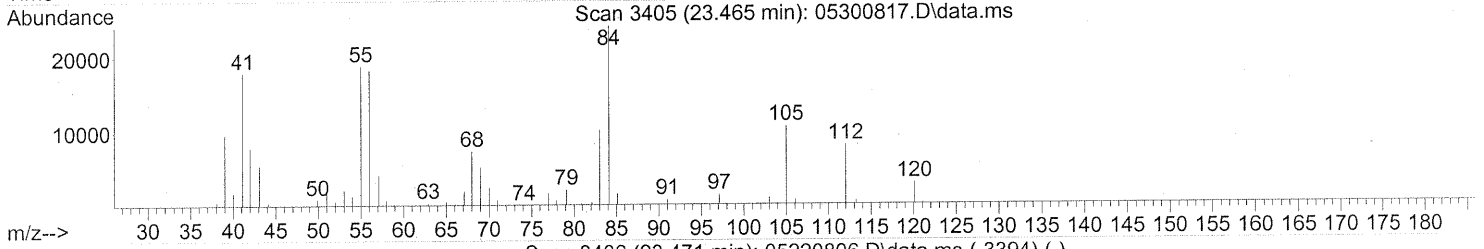
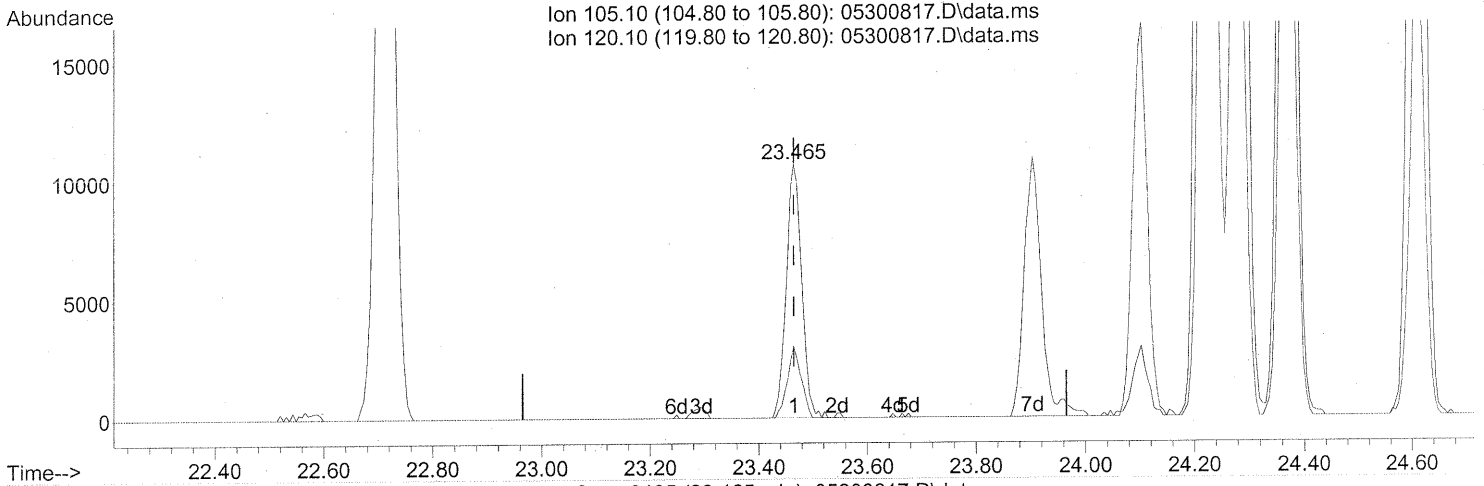
response 454584

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.24ng

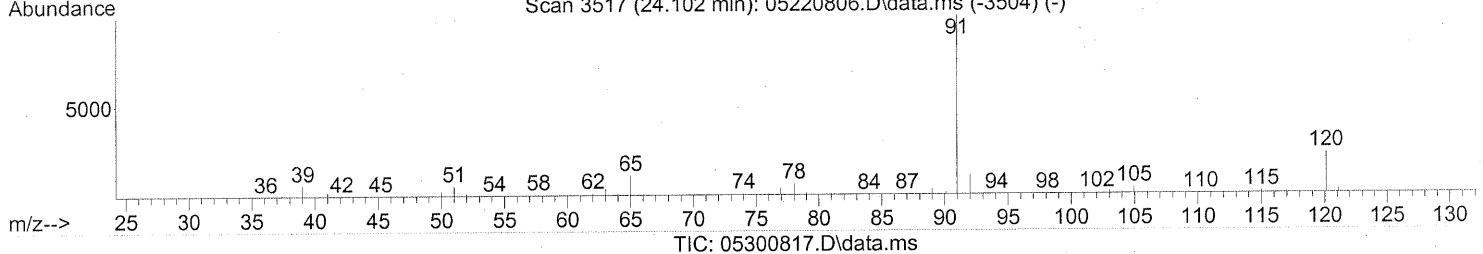
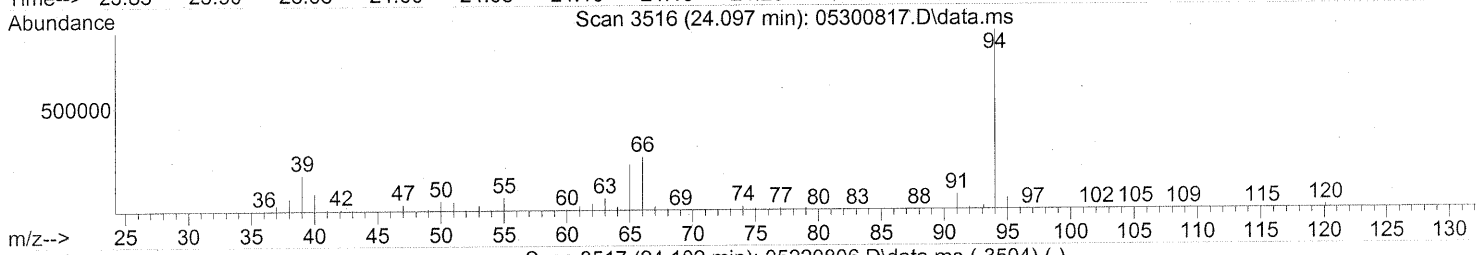
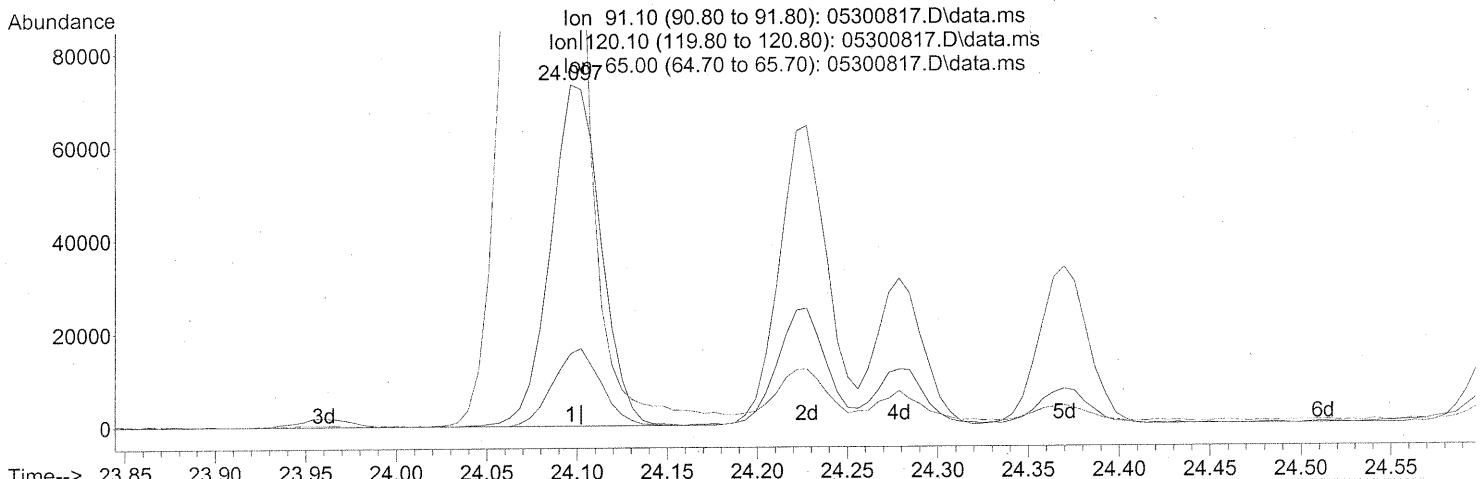
response 21046

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.097min (-0.006) 1.28ng

response 141745

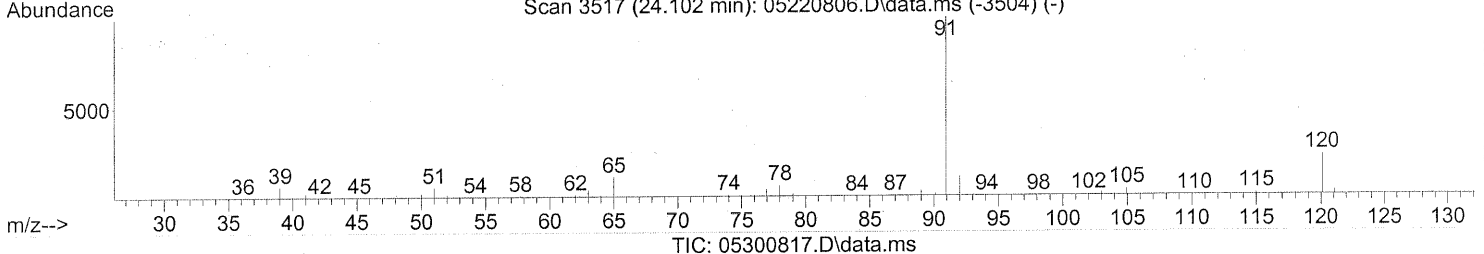
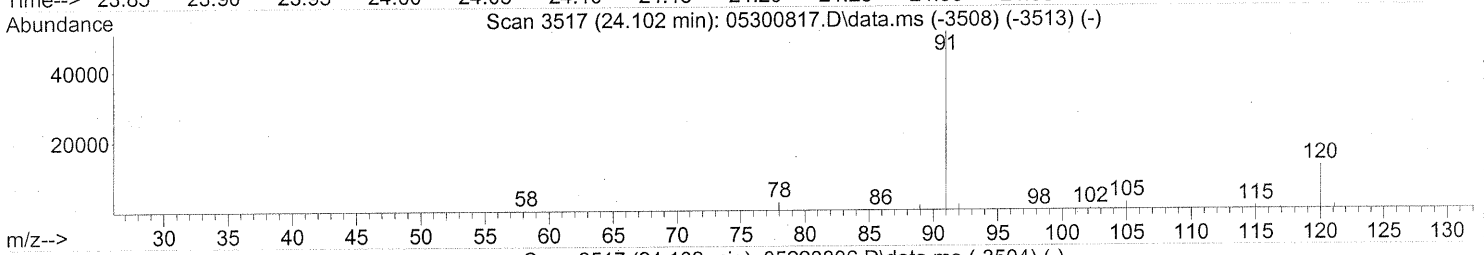
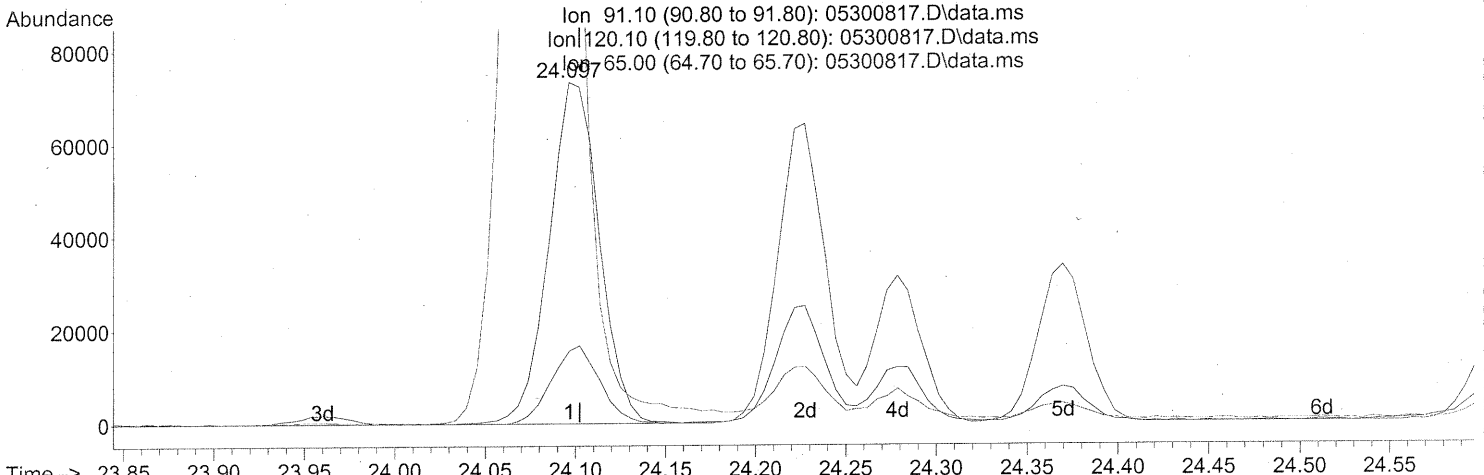
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.74
65.00	11.40	592.45#
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.097min (-0.006) 1.28ng  
 response 141745

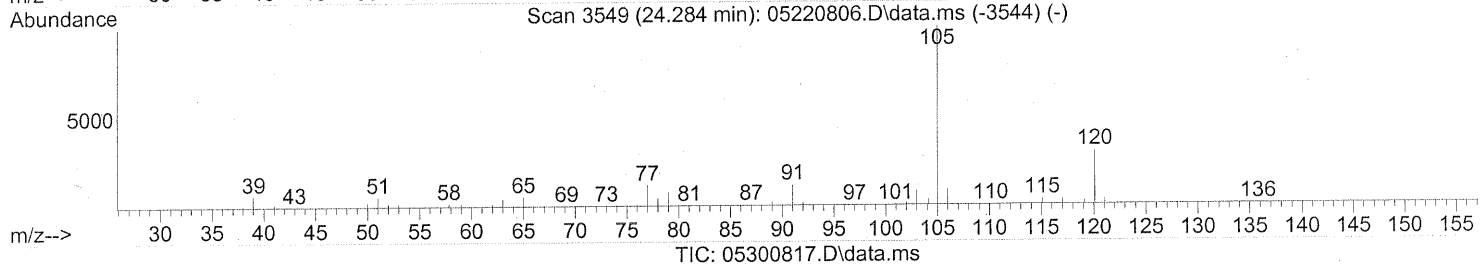
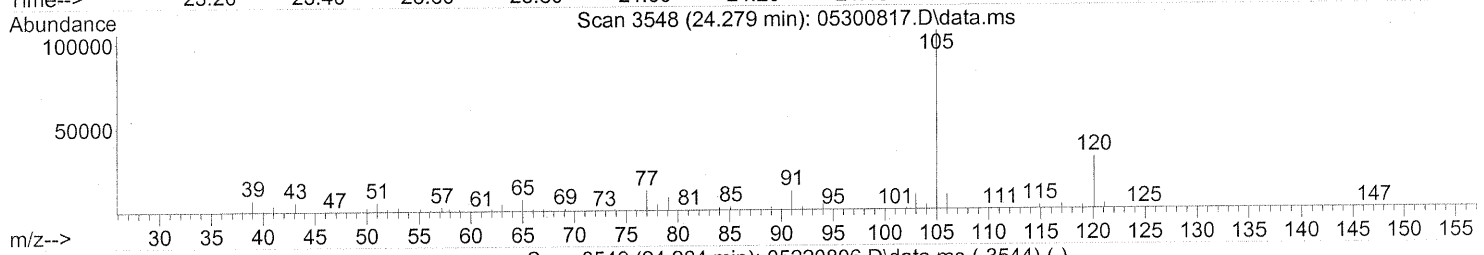
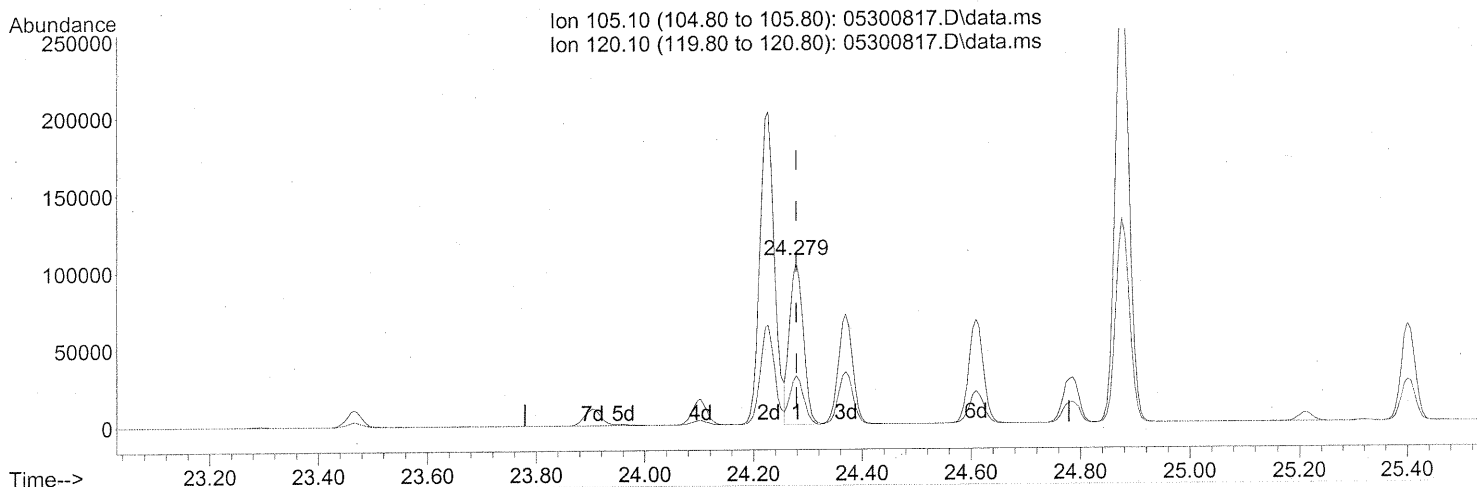
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.74
65.00	11.40	592.45#
0.00	0.00	0.00

*AFTER SUBTRACTION*  
*6/6/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 2.13ng

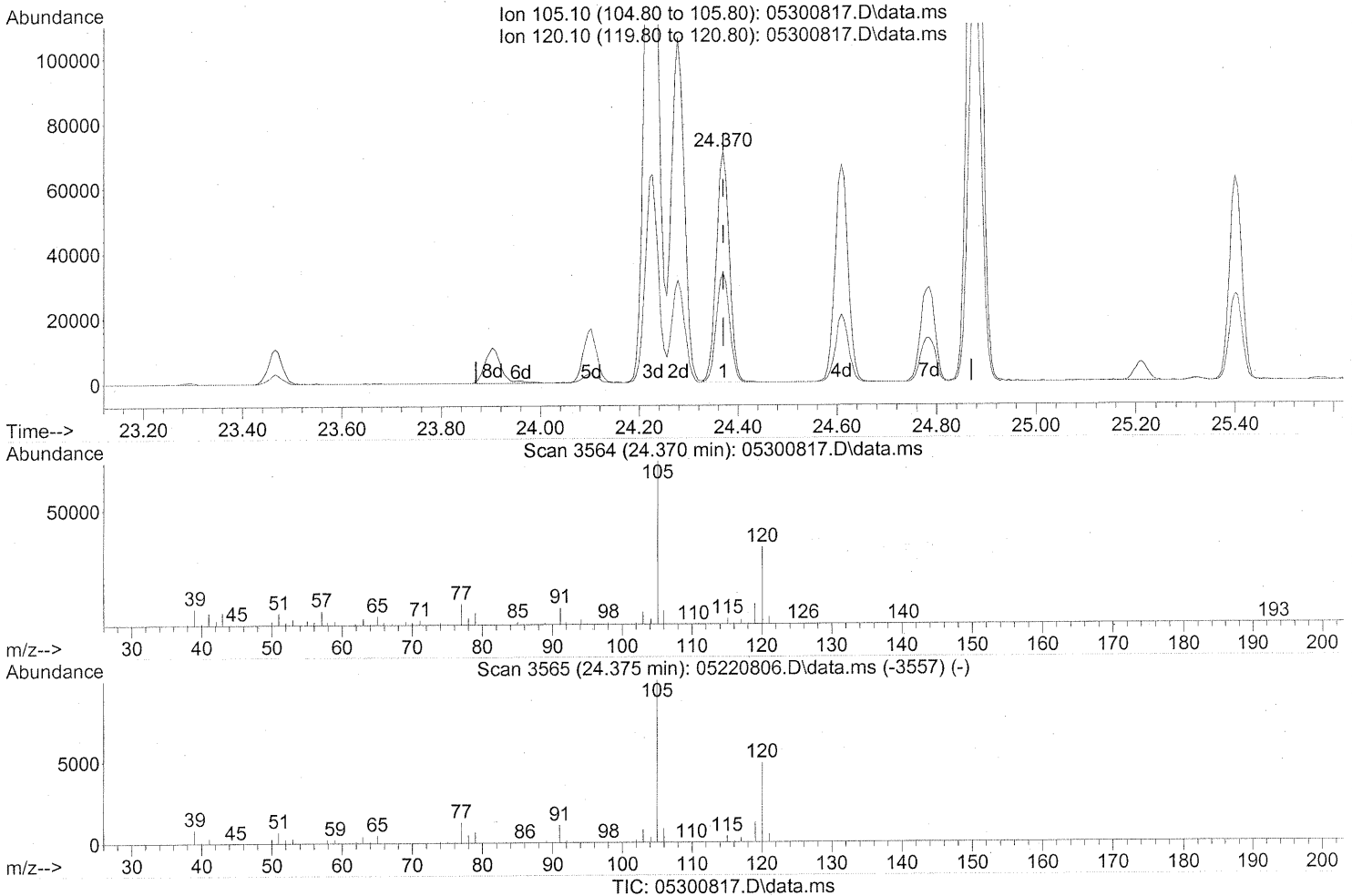
response 183408

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 1.67ng

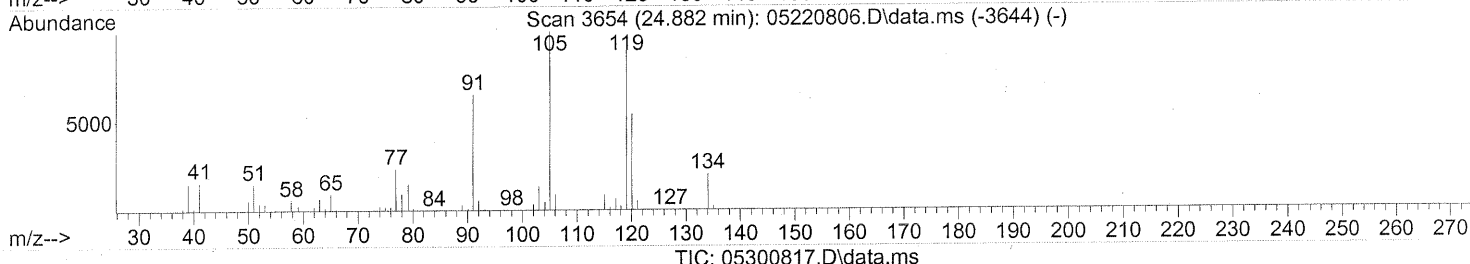
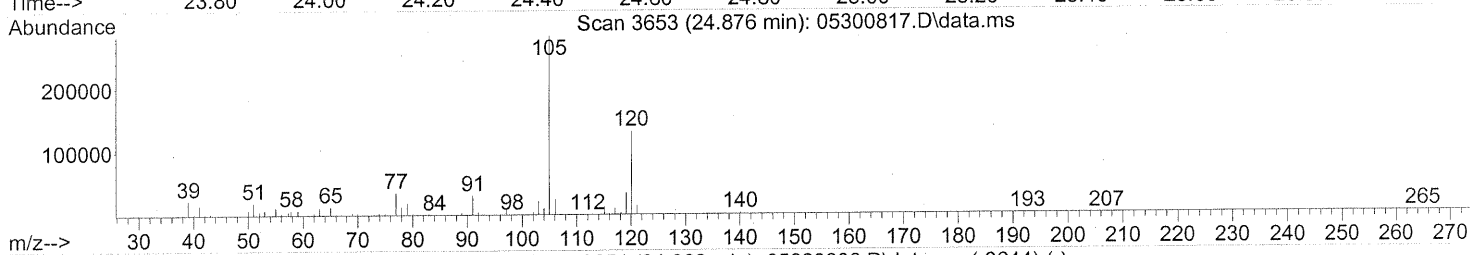
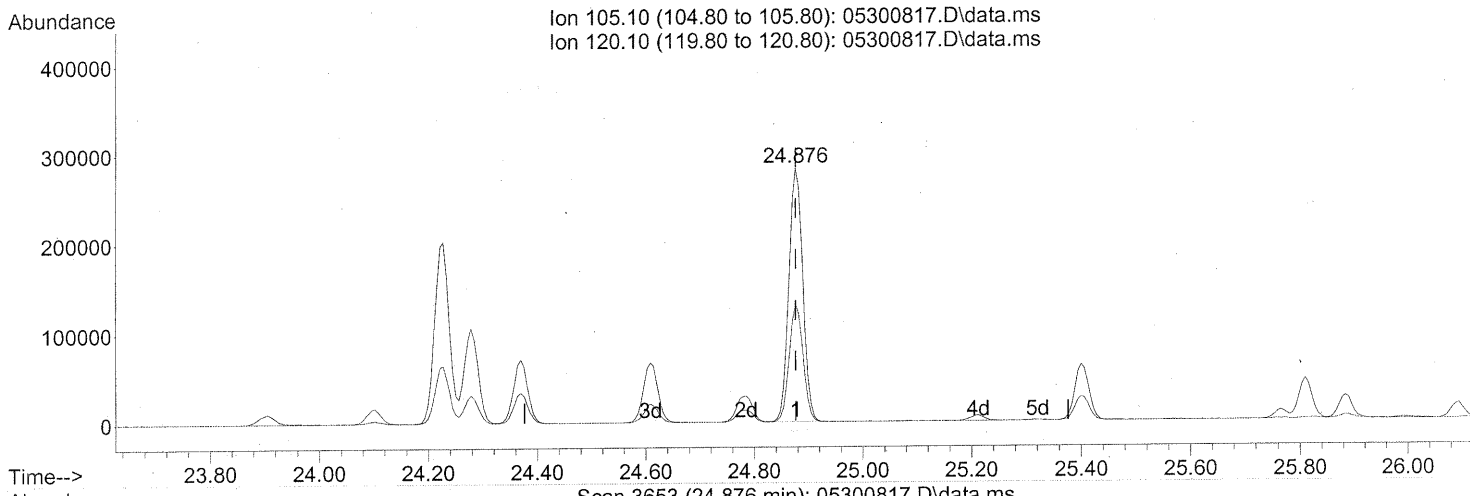
response 129676

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 6.39ng

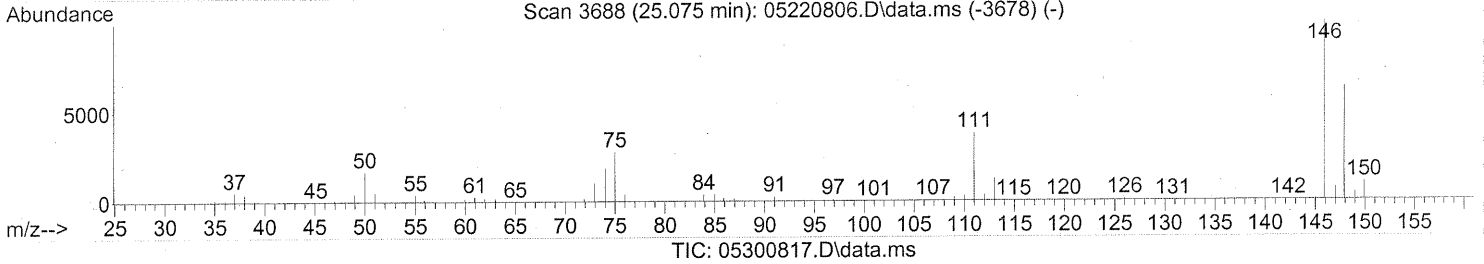
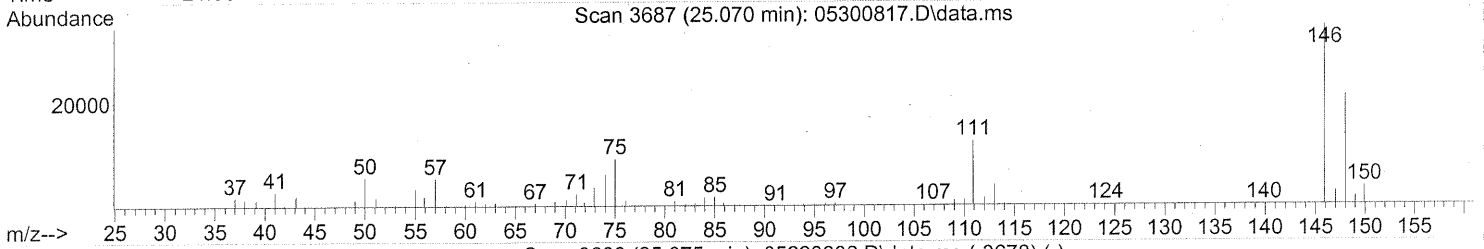
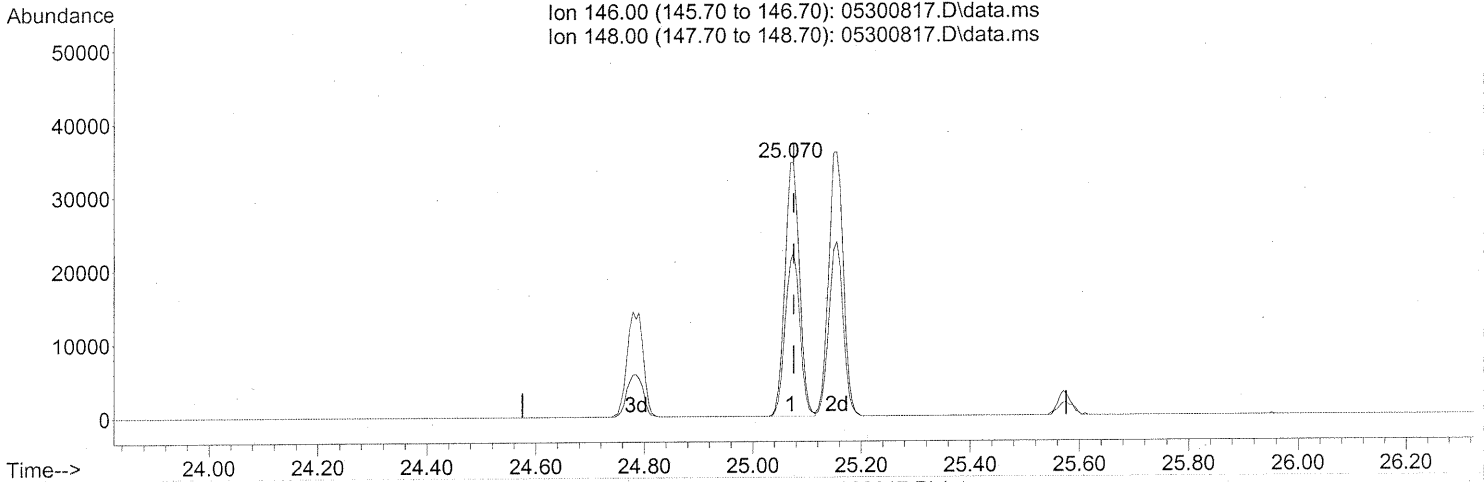
response 506492

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 1.30ng

response 64282

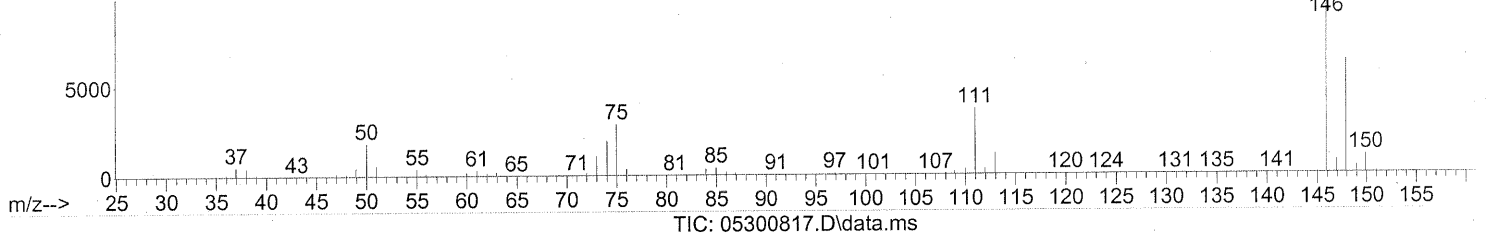
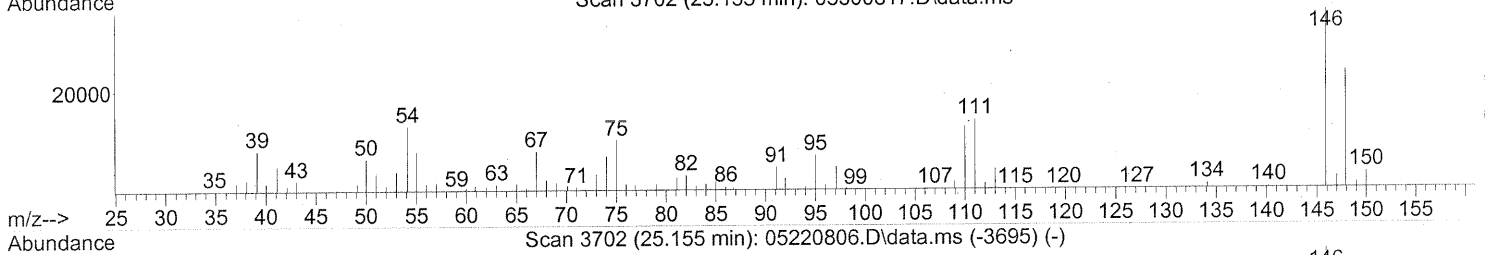
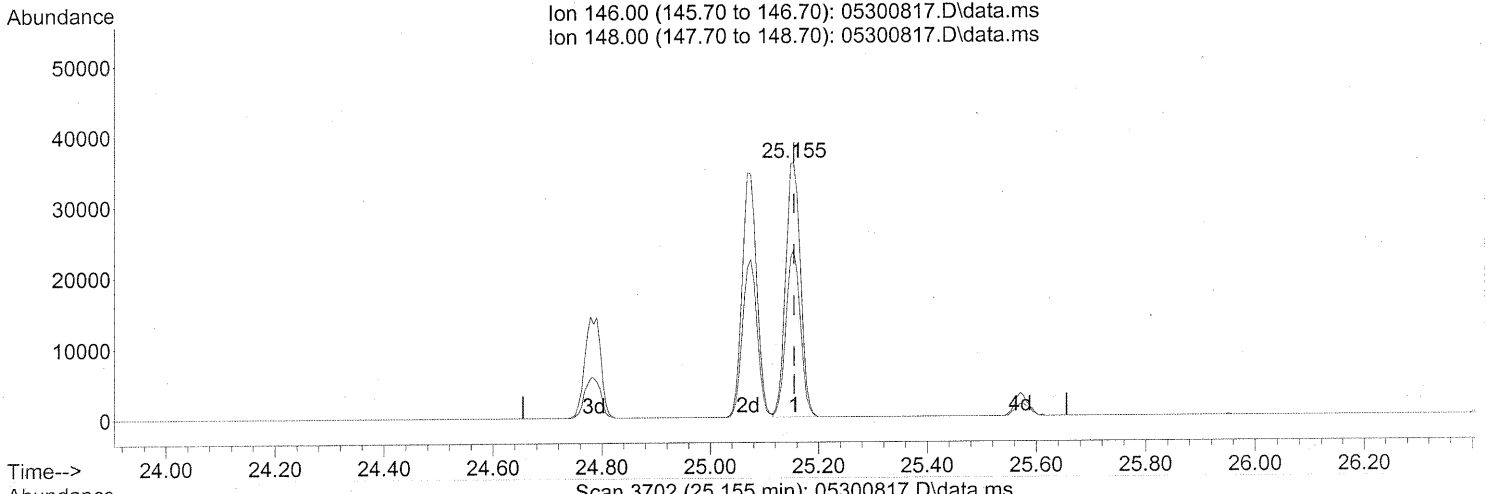
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	64.90
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.41ng

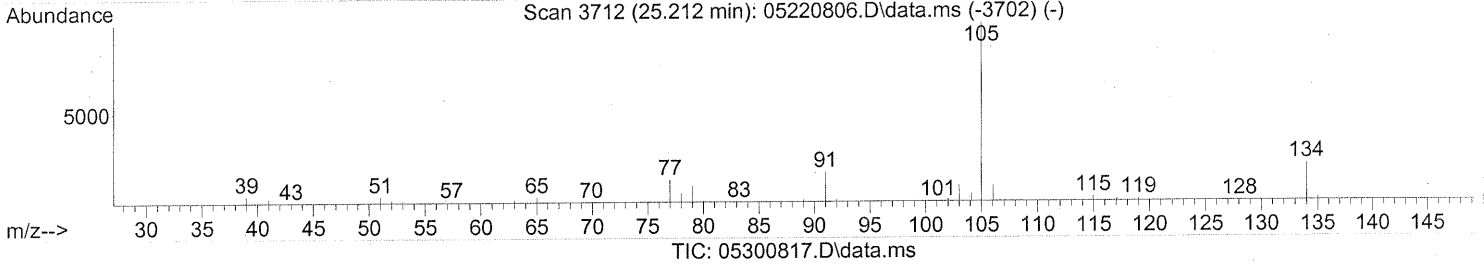
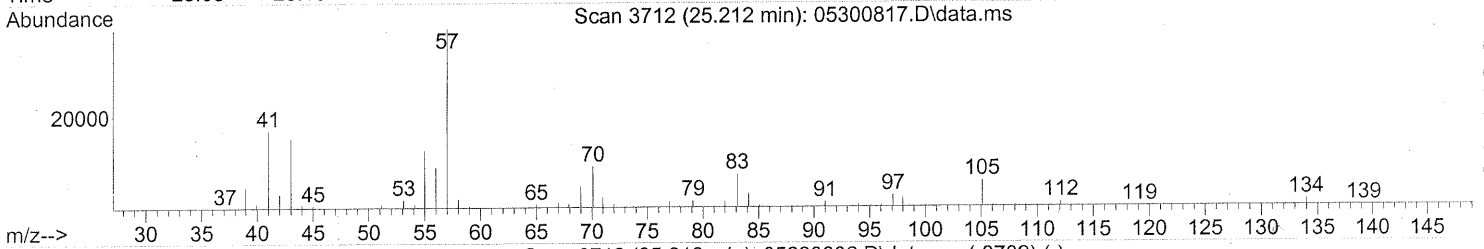
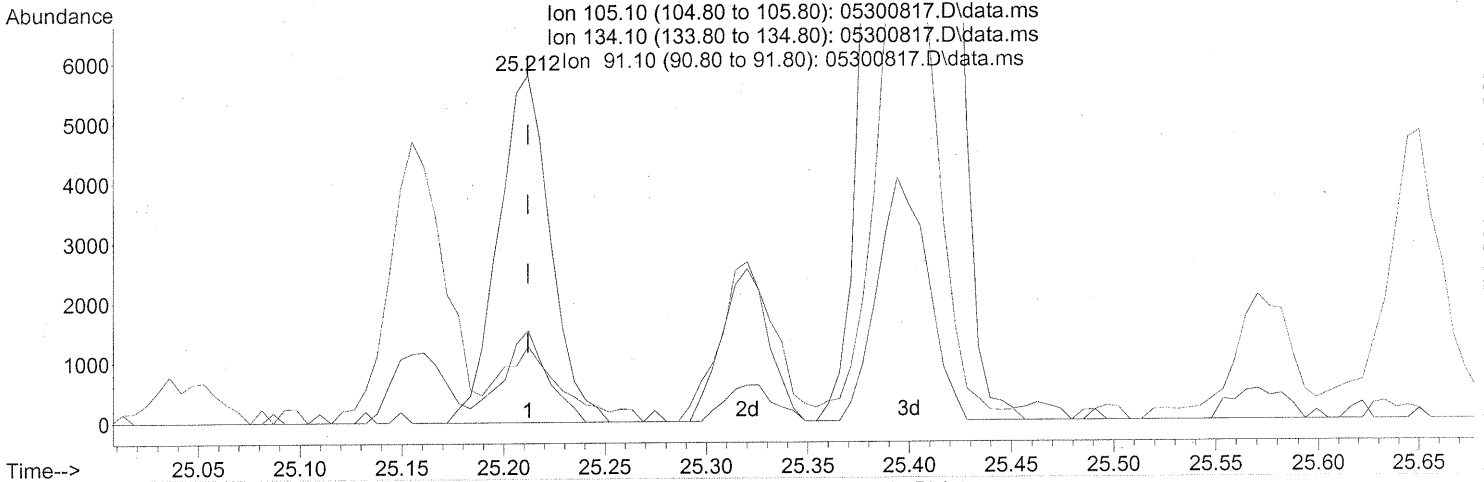
response 67682

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.10ng

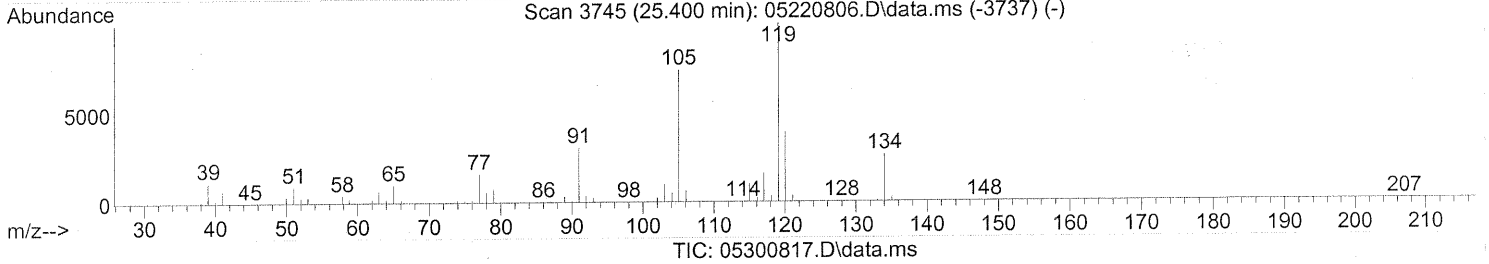
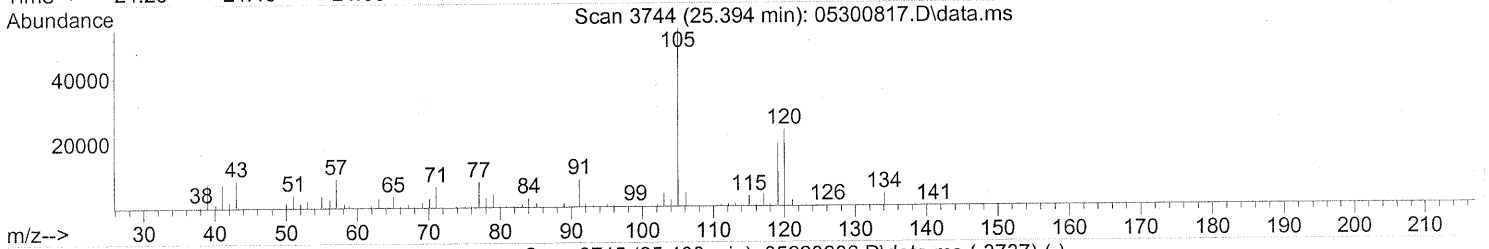
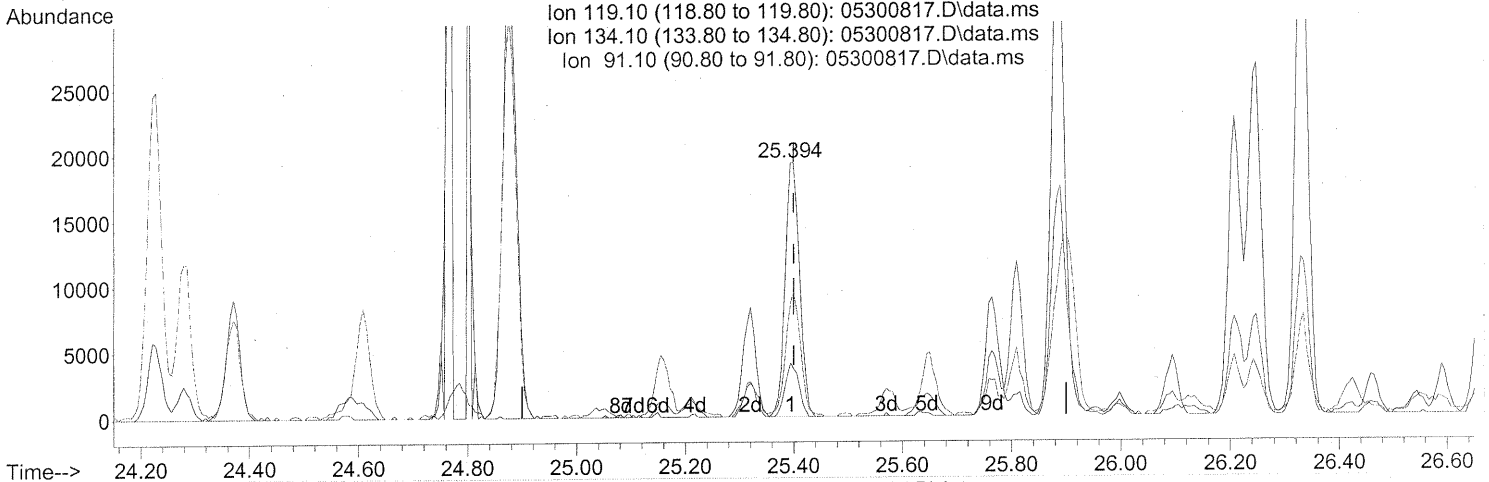
response 10363

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	22.44
91.10	14.60	25.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.42ng

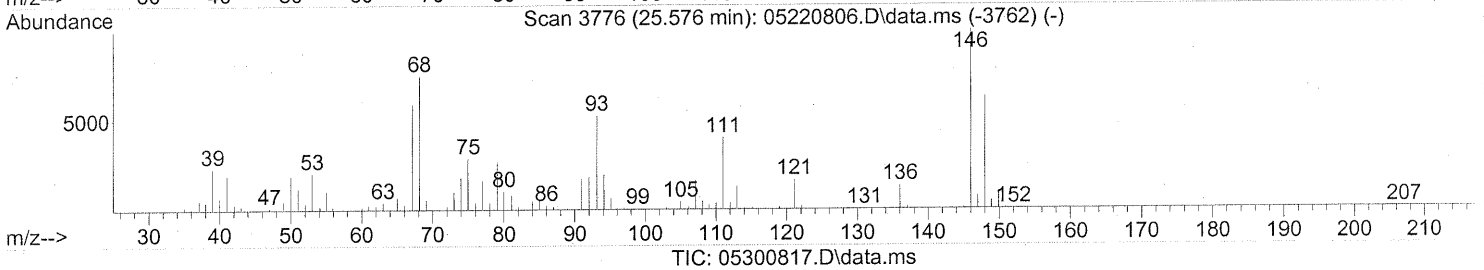
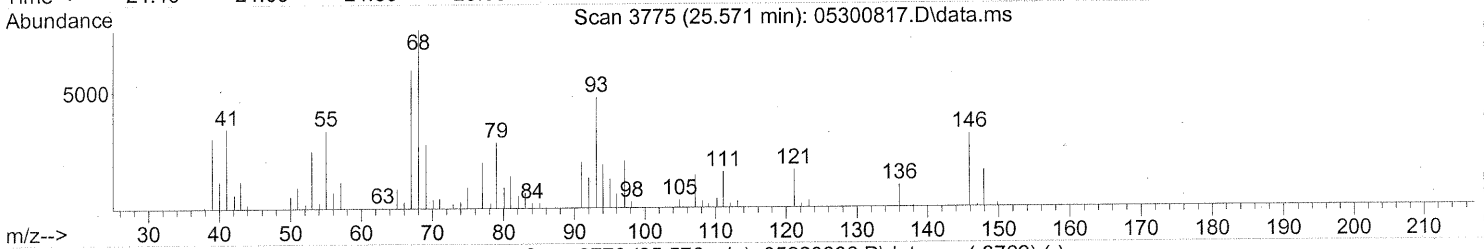
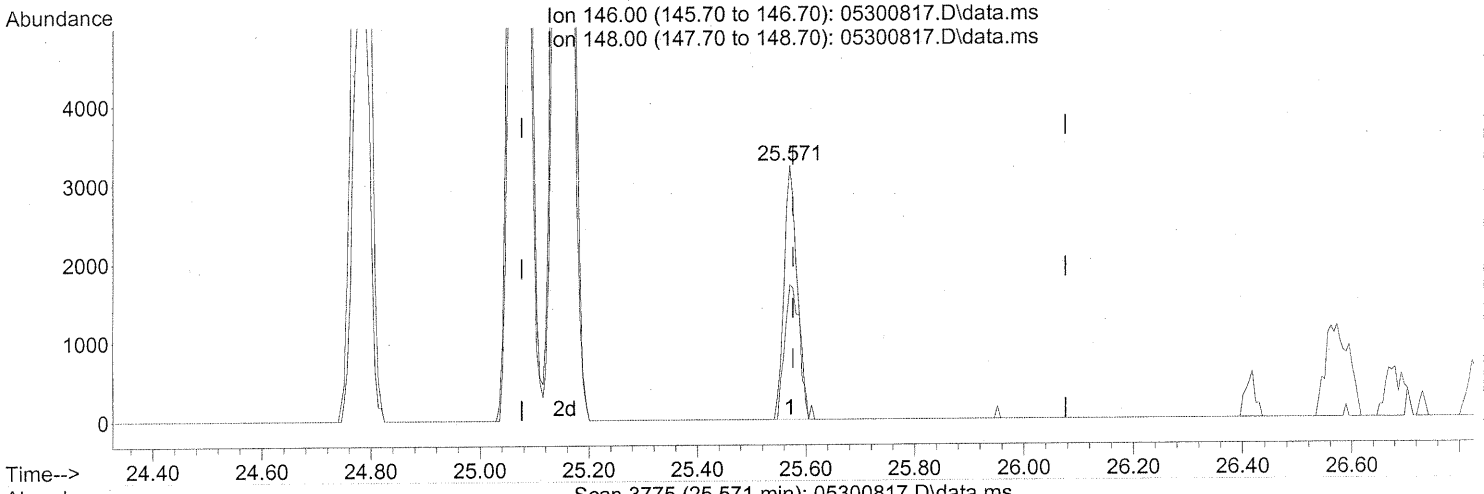
response 35427

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	19.88
91.10	27.10	50.48#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 0.11ng

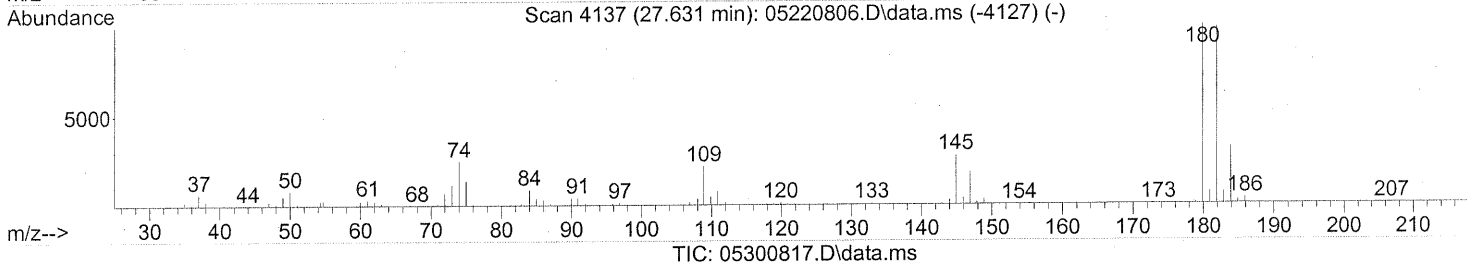
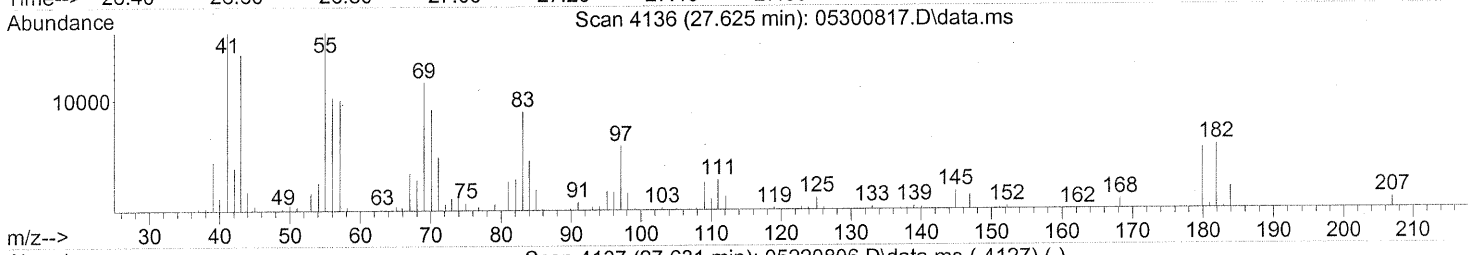
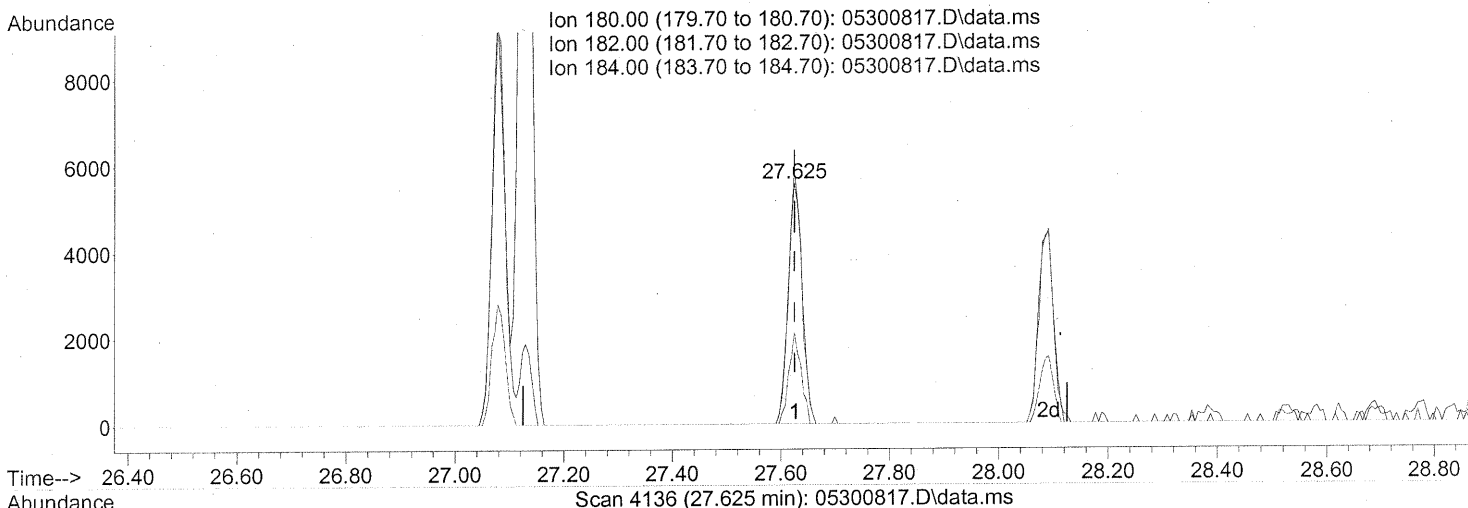
response 5398

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	59.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.29ng

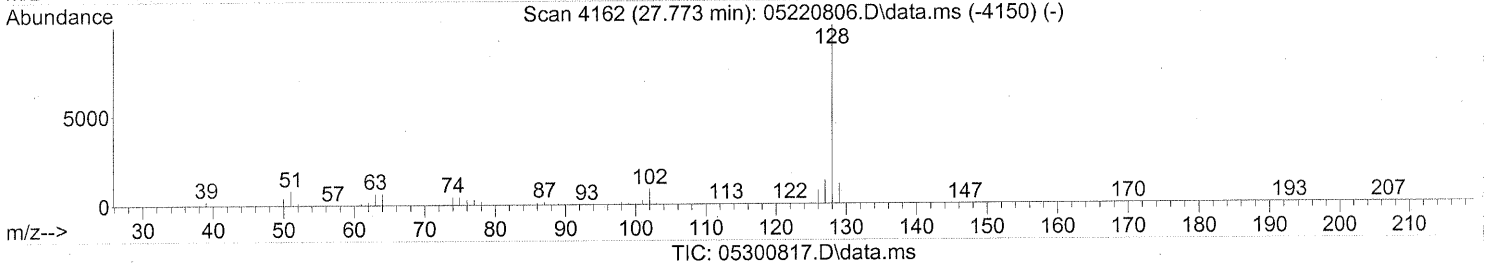
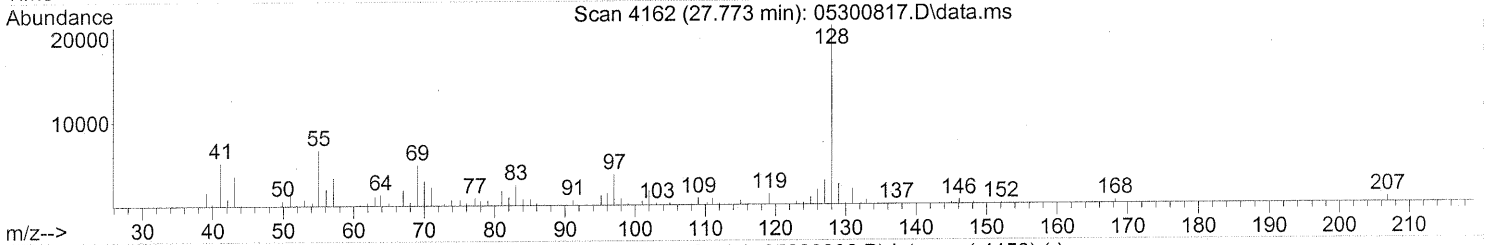
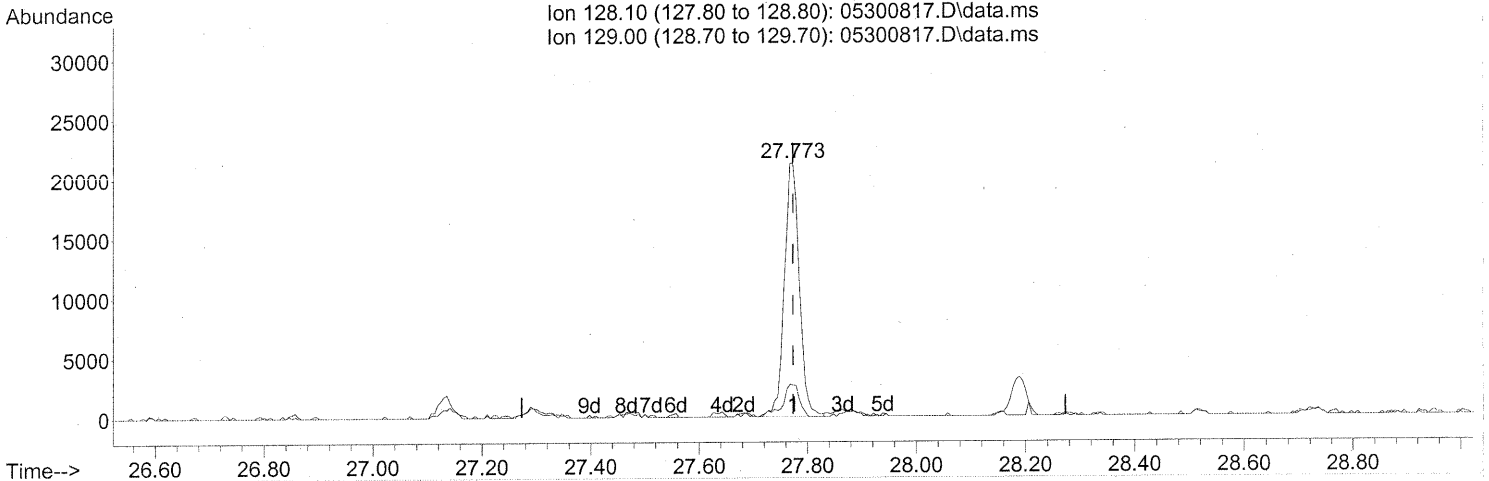
response 9989

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	100.59
184.00	30.30	32.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (-0.000) 0.39ng

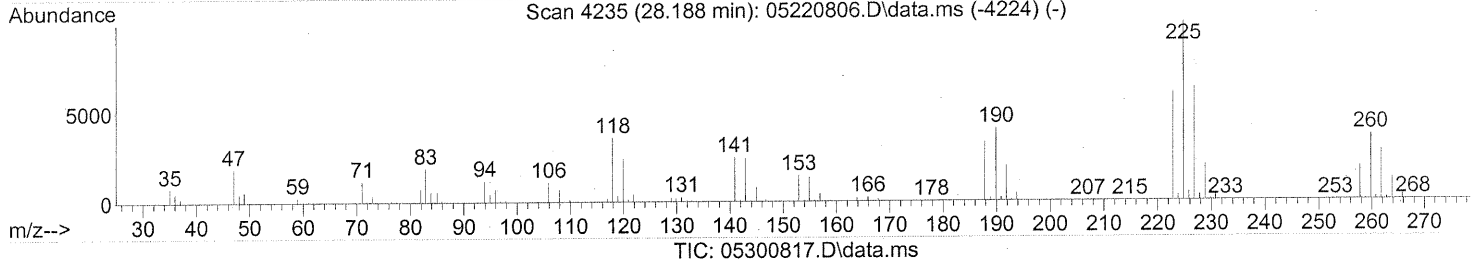
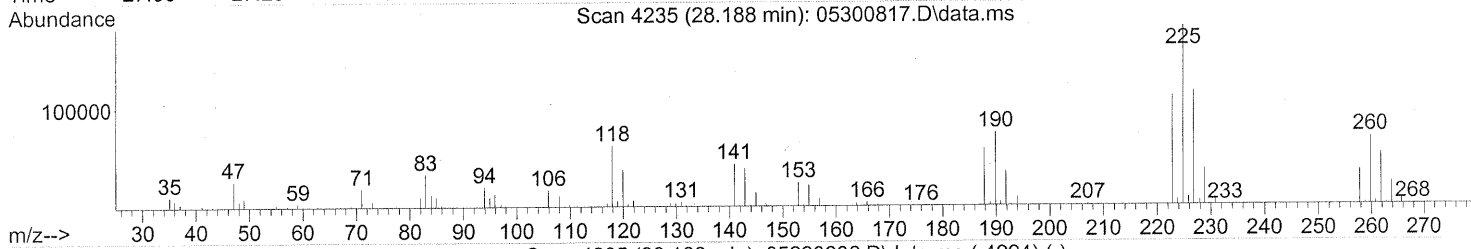
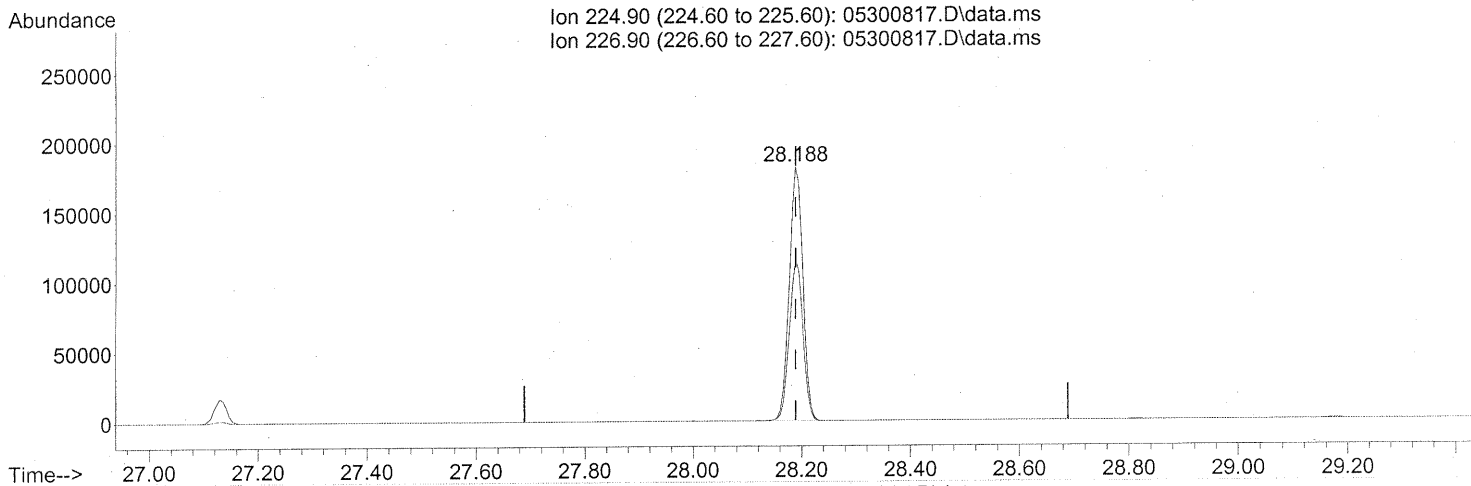
response 40802

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5)  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 16:10:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

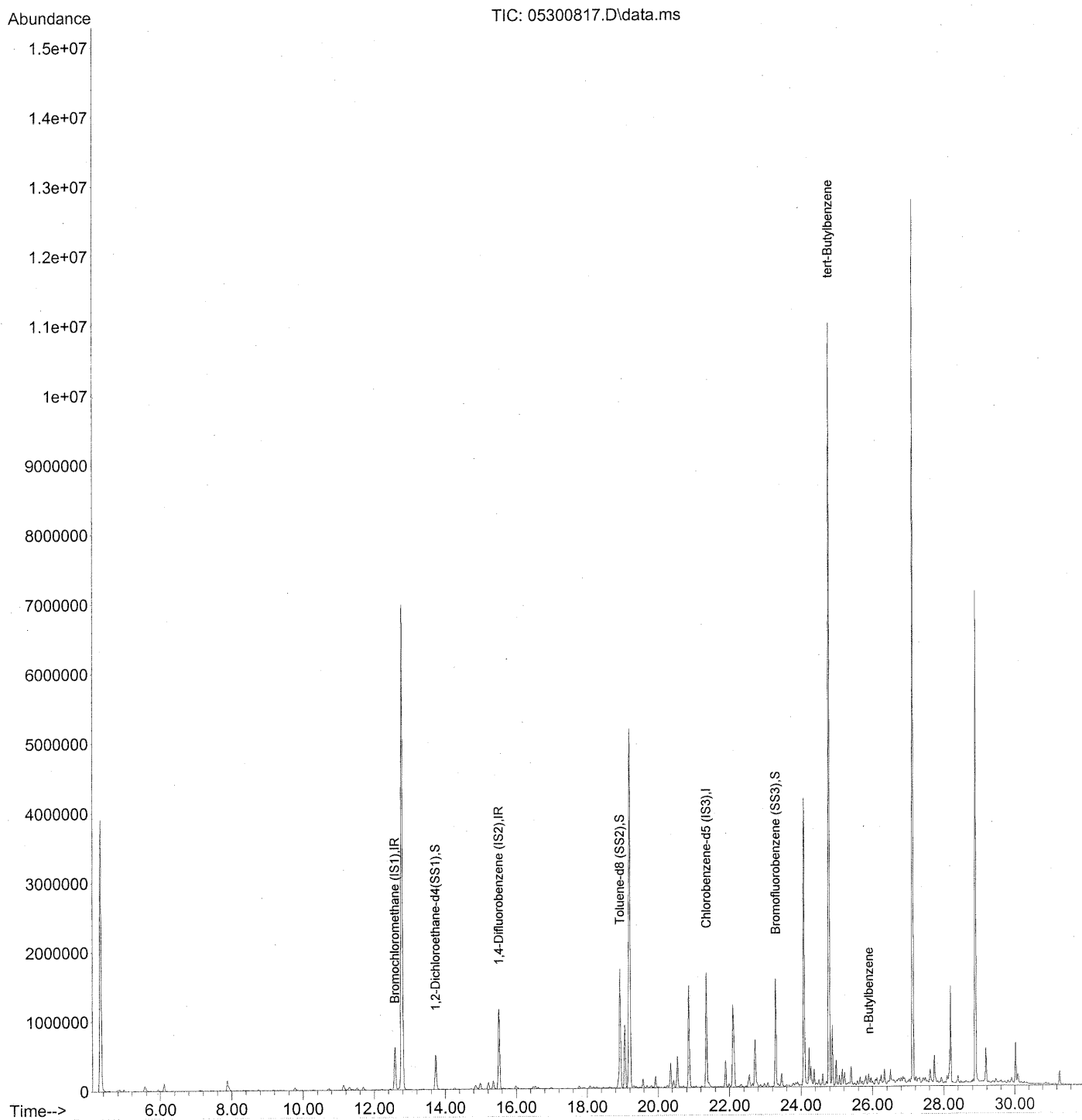
28.188min (-0.000) 13.74ng

response 314905

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	63.45
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300817.D  
Acq On : 30 May 2008 10:32 pm  
Operator : WA  
Sample : P0801548-002 (500ml)  
Misc : ENSR SG93B-05 (-3.6,3.5) ✓  
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 17:22:42 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 17:22:42 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	326975	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1382503	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	645366	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	520813	22.988	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.96%	✓
5) Toluene-d8 (SS2)	18.93	98	1447149	24.968	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.88%	✓
6) Bromofluorobenzene (SS3)	23.29	174	596822	25.322	ng	0.00
Spiked Amount	25.000		Recovery	=	101.28%	✓
Target Compounds						
7) tert-Butylbenzene	<del>24.79</del>	119	228990	<del>3.022</del>	ng	97
8) n-Butylbenzene	25.90	91	36051	0.430	ng	# 37

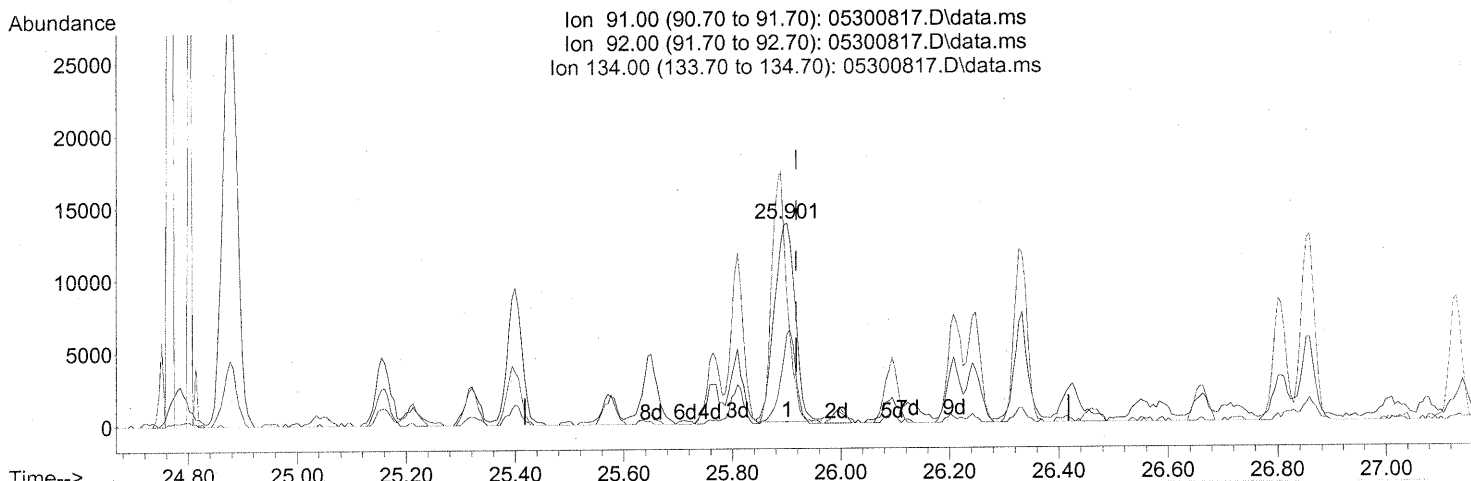
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Post 10/1/08*

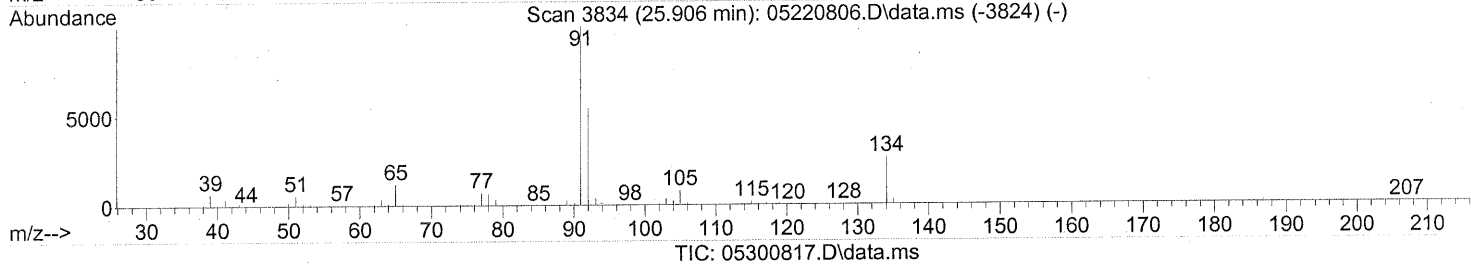
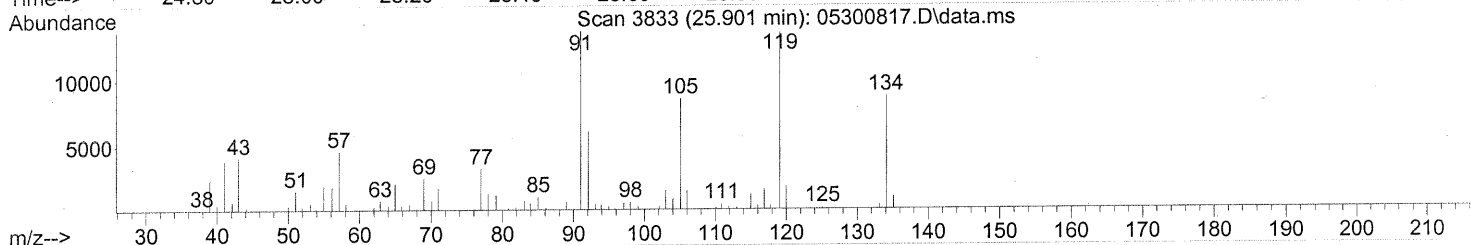
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300817.D  
 Acq On : 30 May 2008 10:32 pm  
 Operator : WA  
 Sample : P0801548-002 (500ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 08 17:22:42 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Ion 91.00 (90.70 to 91.70): 05300817.D\data.ms  
 Ion 92.00 (91.70 to 92.70): 05300817.D\data.ms  
 Ion 134.00 (133.70 to 134.70): 05300817.D\data.ms



(8) n-Butylbenzene

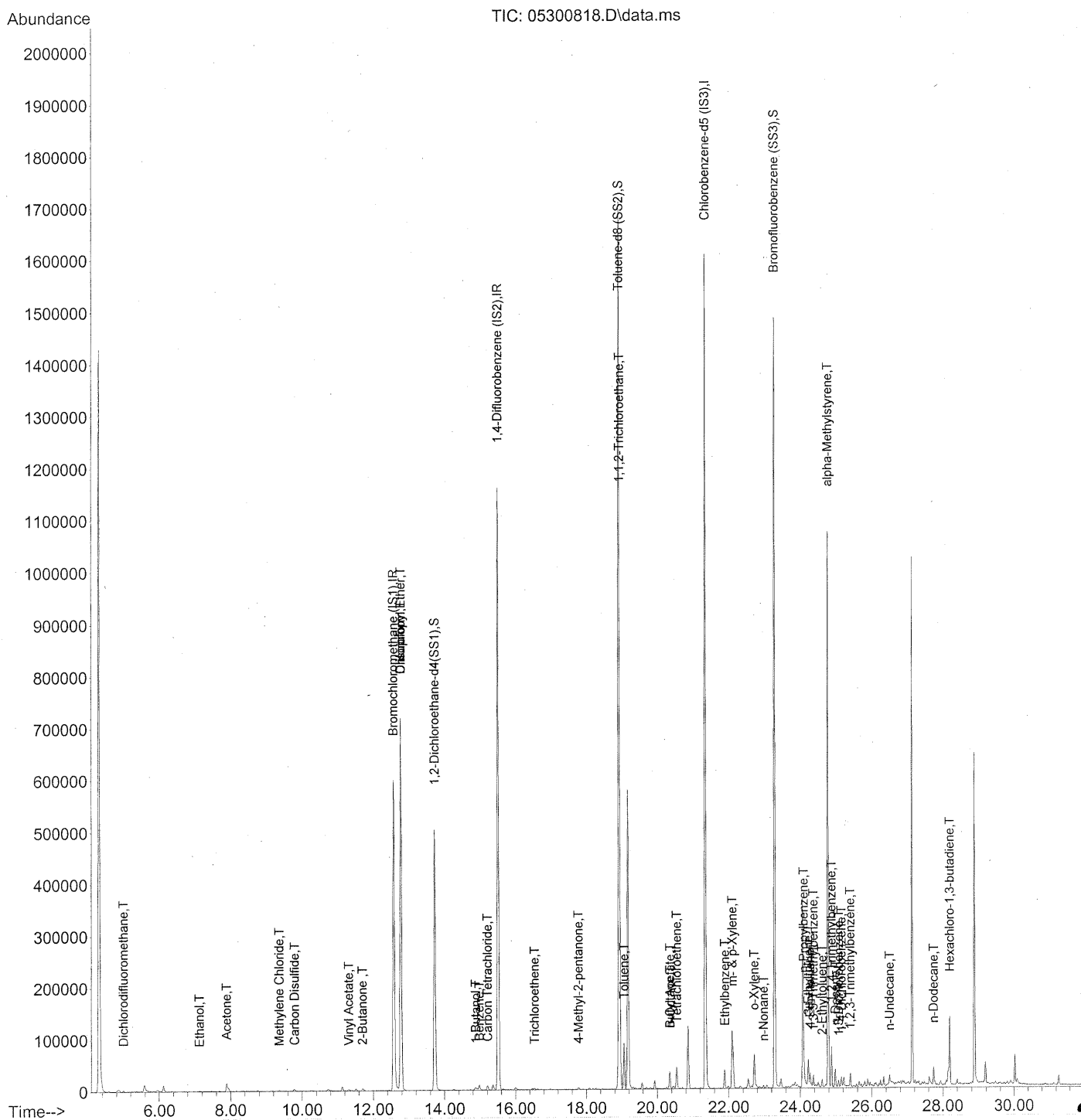
25.901min (-0.017) 0.43ng

response 36051

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	33.57#
134.00	28.80	96.09#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300818.D  
 Acq On : 30 May 2008 23:13  
 Operator : WA  
 Sample : P0801548-002 Dil (50ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:06:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300818.D  
 Acq On : 30 May 2008 23:13  
 Operator : WA  
 Sample : P0801548-002 Dil (50ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:06:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	321471	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1364925	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	627074	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	522131	23.441	ng	0.00
Spiked Amount	25.000		Recovery	=	93.76%	✓
57) Toluene-d8 (SS2)	18.92	98	1425800	25.317	ng	0.00
Spiked Amount	25.000		Recovery	=	101.28%	✓
73) Bromofluorobenzene (SS3)	23.29	174	575860	25.145	ng	0.00
Spiked Amount	25.000		Recovery	=	100.60%	✓

## Target Compounds

						Qvalue
2) Propene	4.83	42	1218	N.D.		
3) Dichlorodifluoromethane	4.99	85	2971	0.063 ng	#	93
4) Chloromethane	5.32	50	120	N.D.		
5) Freon 114	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	1941	0.115 ng		75
11) Acetonitrile	7.46	41	2124	N.D.		
12) Acrolein	7.68	56	524	N.D.		
13) Acetone	7.88	58	9949	0.575 ng	#	80
14) Trichlorofluoromethane	8.16	101	1397	N.D.		
15) Isopropanol	8.34	45	1191	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.15	96	468	N.D.		
18) tert-Butanol	9.29	59	765	N.D.		
19) Methylene Chloride	9.36	84	1096	0.057 ng	#	75
20) Allyl Chloride	9.36	41	55	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	9006	0.123 ng		98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	128	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.31	86	788	0.246 ng	#	21
27) 2-Butanone	11.70	72	1534	0.121 ng	#	82
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	79838	5.159 ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.71	57	1200	N.D.		

*Fac/04/05*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300818.D  
 Acq On : 30 May 2008 23:13  
 Operator : WA  
 Sample : P0801548-002 Dil (50ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:06:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	765018	26.097	ng	100
34) Tetrahydrofuran	13.40	72	55	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.74	62	52	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	14.87	56	6233	0.332	ng	93
41) Benzene	14.98	78	11054	0.155	ng	97
42) Carbon Tetrachloride	15.21	117	7128	0.259	ng	100
43) Cyclohexane	15.39	84	242	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	16.46	83	106	N.D.		
47) Trichloroethene	16.53	130	1524	0.070	ng	99
48) 1,4-Dioxane	16.51	88	72	N.D.		
49) Isooctane	16.61	57	1583	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.97	71	116	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1176	0.062	ng	78
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	123621	7.000	ng	# 7
58) Toluene	19.06	91	70873	0.926	ng	98
59) 2-Hexanone	19.38	43	1905	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.35	43	19373	0.362	ng	# 65
63) n-Octane	20.35	57	6904	0.408	ng	94
64) Tetrachloroethene	20.54	166	16172	0.714	ng	98
65) Chlorobenzene	21.41	112	778	N.D.		
66) Ethylbenzene	21.89	91	34342	0.391	ng	95
67) m- & p-Xylene	22.10	91	116992	1.993	ng	91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	531	N.D.		
70) o-Xylene	22.71	91	42658	0.673	ng	92
71) n-Nonane	22.98	43	2929	0.065	ng	85
72) 1,1,2,2-Tetrachloroethane	22.82	83	62	N.D.		
74) Cumene	23.46	105	2235	N.D.		
75) alpha-Pinene	23.96	93	760	N.D.		
76) n-Propylbenzene	24.10	91	13384	0.125	ng	# 89
77) 3-Ethyltoluene	24.23	105	35388	0.394	ng	100
78) 4-Ethyltoluene	24.28	105	17545	0.209	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	12058	0.159	ng	98

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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300818.D  
 Acq On : 30 May 2008 23:13  
 Operator : WA  
 Sample : P0801548-002 Dil (50ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:06:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	12530	0.306	ng	# 2
81) 2-Ethyltoluene	24.61	105	11537	0.127	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	46095	0.598	ng	88
83) n-Decane	24.98	57	13240	0.312	ng	88
84) Benzyl Chloride	25.02	91	65	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	6376	0.132	ng	92
86) 1,4-Dichlorobenzene	25.16	146	6483	0.139	ng	97
87) sec-Butylbenzene	25.21	105	808	N.D.		
88) p-Isopropyltoluene	25.39	119	3383	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	10431	0.138	ng	87
90) 1,2-Dichlorobenzene	25.58	146	465	N.D.		
91) d-Limonene	25.57	68	1107	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.24	157	427	N.D.		
93) n-Undecane	26.50	57	6053	0.136	ng	# 17
94) 1,2,4-Trichlorobenzene	27.62	180	1154	N.D.		
95) Naphthalene	27.77	128	4462	N.D.		
96) n-Dodecane	27.73	57	11019	0.250	ng	79
97) Hexachloro-1,3-butadiene	28.19	225	28640	1.286	ng	99

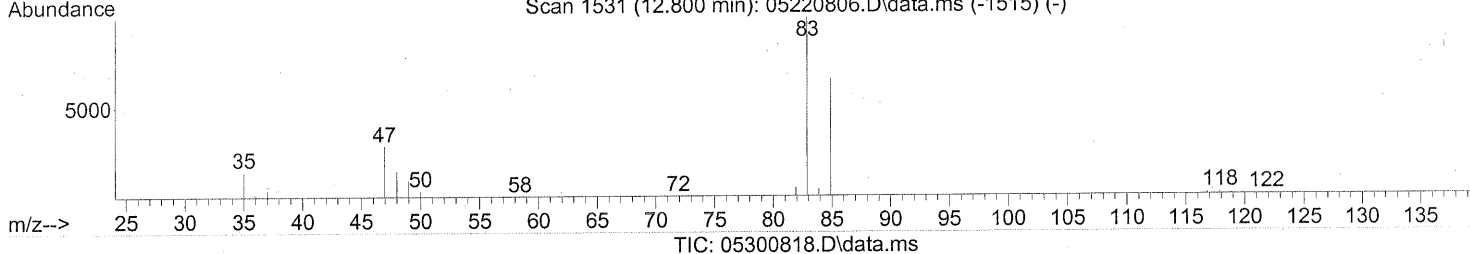
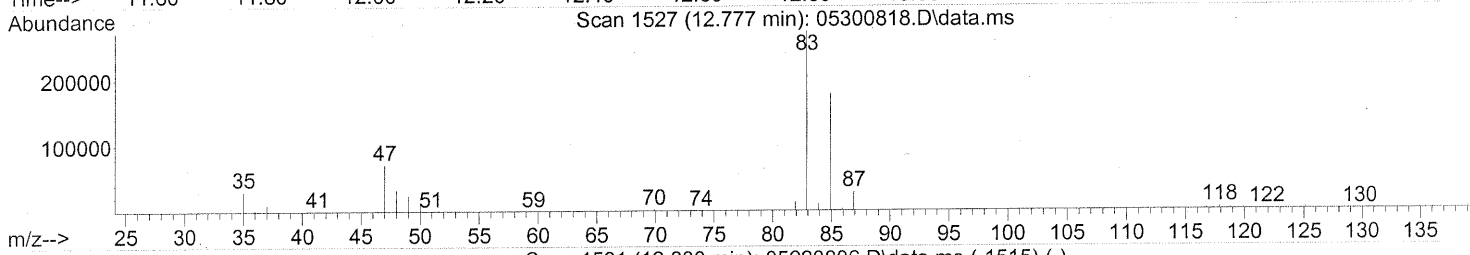
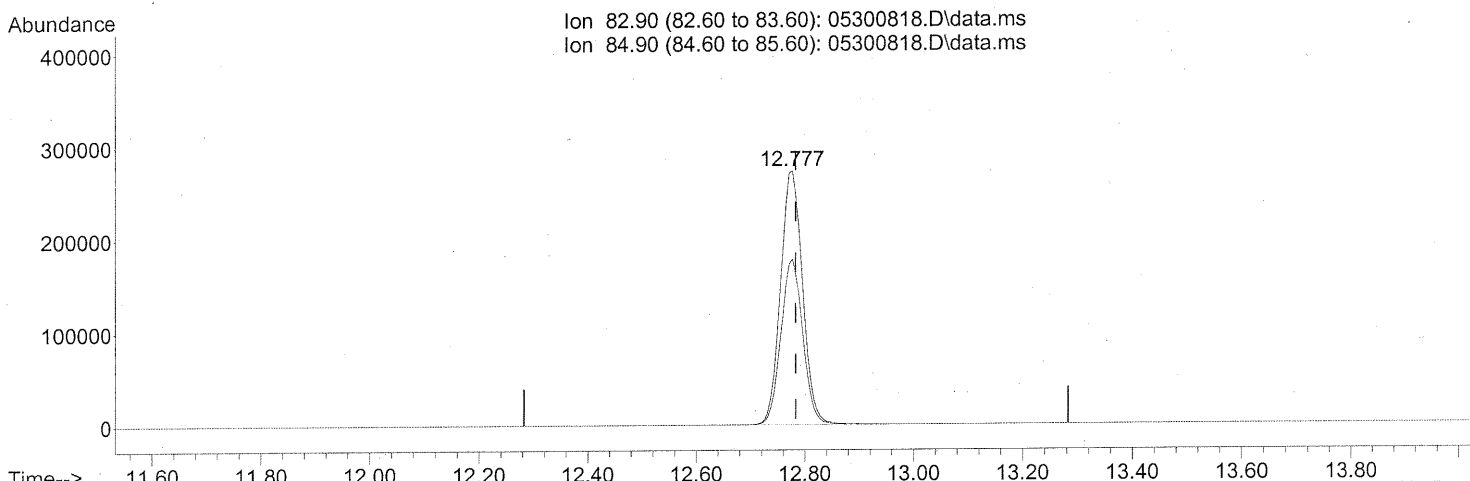
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Fac/04/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300818.D  
 Acq On : 30 May 2008 11:13 pm  
 Operator : WA  
 Sample : P0801548-002 Dil (50ml)  
 Misc : ENSR SG93B-05 (-3.6,3.5)  
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 31 05:06:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 26.10ng

response 765018

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.65
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG46B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-003

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00651

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.79	0.079	0.42	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.077	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.14	0.79	0.079	0.020	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.041	0.020	
75-00-3	Chloroethane	0.11	0.16	0.079	0.043	0.060	0.030	J
64-17-5	Ethanol	1.8	7.9	0.079	0.98	4.2	0.042	J
67-64-1	Acetone	130	7.9	0.12	54	3.3	0.049	B
75-69-4	Trichlorofluoromethane	1.8	0.16	0.079	0.32	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	510	0.16	0.079	130	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.38	0.79	0.12	0.13	0.26	0.039	J
75-09-2	Methylene Chloride	0.27	0.79	0.079	0.078	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.58	0.16	0.088	0.076	0.021	0.012	
75-15-0	Carbon Disulfide	5.8	0.79	0.19	1.9	0.25	0.061	
156-60-5	trans-1,2-Dichloroethene	0.087	0.16	0.079	0.022	0.040	0.020	J
75-34-3	1,1-Dichloroethane	0.14	0.16	0.079	0.035	0.039	0.020	J
1634-04-4	Methyl tert-Butyl Ether	0.15	0.16	0.079	0.043	0.044	0.022	J
108-05-4	Vinyl Acetate	5.5	7.9	0.25	1.6	2.2	0.072	J
78-93-3	2-Butanone (MEK)	8.5	0.79	0.079	2.9	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	0.084	0.16	0.079	0.021	0.040	0.020	J
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	25	0.16	0.093	5.1	0.032	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG46B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-003

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00651

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.081	ND	0.19	0.019	
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.090</b>	0.16	0.079	<b>0.022</b>	0.039	0.020	<b>J</b>
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.12</b>	0.16	0.079	<b>0.023</b>	0.029	0.014	<b>J</b>
71-43-2	<b>Benzene</b>	<b>3.0</b>	0.16	0.079	<b>0.95</b>	0.049	0.025	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.68</b>	0.16	0.079	<b>0.11</b>	0.025	0.013	
994-05-8	<b>tert-Amyl Methyl Ether</b>	<b>0.10</b>	0.79	0.079	<b>0.025</b>	0.19	0.019	<b>J</b>
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.084</b>	0.16	0.079	<b>0.018</b>	0.034	0.017	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.24</b>	0.16	0.079	<b>0.037</b>	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>6.7</b>	0.16	0.079	<b>1.2</b>	0.029	0.015	
123-91-1	<b>1,4-Dioxane</b>	<b>0.34</b>	0.79	0.096	<b>0.095</b>	0.22	0.027	<b>J</b>
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	<b>n-Heptane</b>	<b>0.42</b>	0.79	0.10	<b>0.10</b>	0.19	0.025	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>7.1</b>	0.79	0.088	<b>1.7</b>	0.19	0.022	
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	<b>Toluene</b>	<b>3.3</b>	0.79	0.079	<b>0.88</b>	0.21	0.021	
591-78-6	<b>2-Hexanone</b>	<b>0.91</b>	0.79	0.12	<b>0.22</b>	0.19	0.029	
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>1.7</b>	0.79	0.079	<b>0.36</b>	0.17	0.017	
127-18-4	<b>Tetrachloroethene</b>	<b>1.2</b>	0.16	0.079	<b>0.17</b>	0.023	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>0.31</b>	0.16	0.081	<b>0.068</b>	0.034	0.018	

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

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

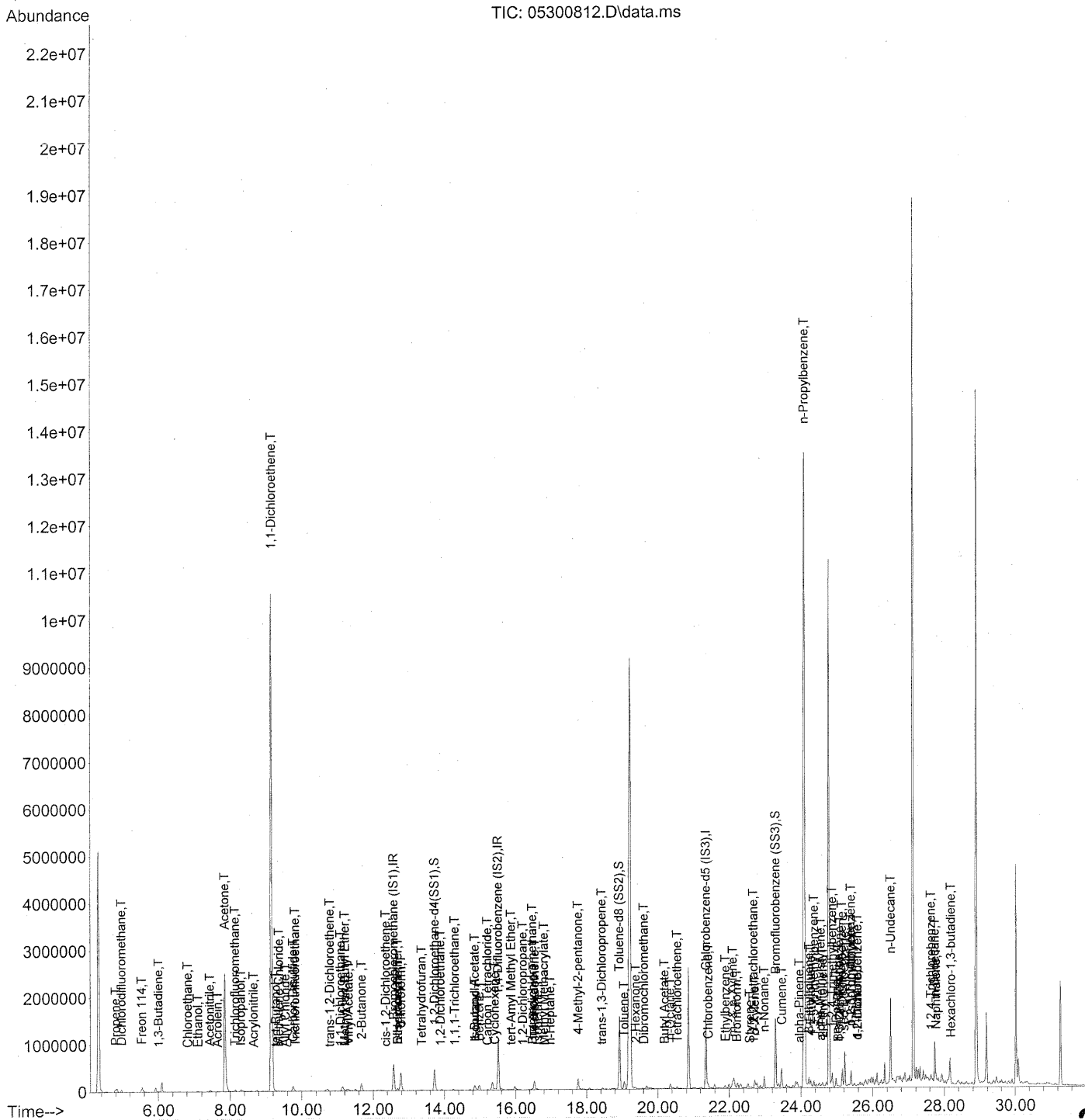
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         CA         Date: 6/10/08 **217**



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5) ✓  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
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Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	287830	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1253641	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	599055	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	466536	23.393	ng	0.00
Spiked Amount			Recovery =	25.000		93.56% ✓
57) Toluene-d8 (SS2)	18.92	98	1310750	24.363	ng	0.00
Spiked Amount			Recovery =	25.000		97.44% ✓
73) Bromofluorobenzene (SS3)	23.29	174	564018	25.780	ng	0.00
Spiked Amount			Recovery =	25.000		103.12% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	33110	1.456	ng	# 75
3) Dichlorodifluoromethane	4.96	85	55658	1.328	ng	98
4) Chloromethane	5.29	50	1033	N.D. ✓		
5) Freon 114	5.53	135	1810	0.088	ng	86
6) Vinyl Chloride	5.74	62	866	N.D. ✓		
7) 1,3-Butadiene	6.00	54	3430	0.170	ng	# 75
8) Bromomethane	6.48	94	436	N.D. ✓		
9) Chloroethane	6.82	64	927	0.072	ng	68
10) Ethanol	7.10	45	17637	1.165	ng	92
11) Acetonitrile	7.43	41	55064	1.258	ng	92
12) Acrolein	7.64	56	6981	0.646	ng	95
13) Acetone	7.85	58	1256939	81.122	ng	# 61
14) Trichlorofluoromethane	8.14	101	40954	1.139	ng	98
15) Isopropanol	8.30	45	88672	1.794	ng	93
16) Acrylonitrile	8.65	53	1389	0.059	ng	# 74
17) 1,1-Dichloroethene	9.16	96	5735425	362.699	ng	See det. 74
18) tert-Butanol	9.27	59	10197	0.243	ng	73
19) Methylene Chloride	9.36	84	2969	0.171	ng	95
20) Allyl Chloride	9.54	41	1642	0.071	ng	NR 44
21) Trichlorotrifluoroethane	9.81	151	6008	0.368	ng	92
22) Carbon Disulfide	9.76	76	243222	3.701	ng	100
23) trans-1,2-Dichloroethene	10.79	61	1406	0.055	ng	92
24) 1,1-Dichloroethane	11.09	63	2679	0.089	ng	72
25) Methyl tert-Butyl Ether	11.21	73	4860	0.097	ng	85
26) Vinyl Acetate	11.31	86	9974	3.483	ng	# 1
27) 2-Butanone	11.67	72	60595	5.358	ng	95
28) cis-1,2-Dichloroethene	12.36	61	1305	0.053	ng	91
29) Diisopropyl Ether	12.69	87	895	0.065	ng	NR; NK 1
30) Ethyl Acetate	12.70	61	2693	0.441	ng	For det. 85
31) n-Hexane	12.70	57	19988	0.649	ng	91

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	413515	15.755 ng		100
34) Tetrahydrofuran	13.36	72	3267	0.302 ng	#	76
35) Ethyl tert-Butyl Ether	13.49	87	724	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	1438	0.057 ng	#	58
38) 1,1,1-Trichloroethane	14.29	97	2222	0.078 ng		94
39) Isopropyl Acetate	14.85	61	551	0.051 ng	#	1
40) 1-Butanol	14.85	56	94693	5.495 ng		90
41) Benzene	14.98	78	125348	1.910 ng		100
42) Carbon Tetrachloride	15.21	117	10934	0.433 ng		96
43) Cyclohexane	15.41	84	5737	0.225 ng	#	1
44) tert-Amyl Methyl Ether	15.87	73	3095	0.066 ng	#	51
45) 1,2-Dichloropropane	16.20	63	939	0.053 ng	#	70
46) Bromodichloromethane	16.47	83	3441m	0.155 ng		
47) Trichloroethene	16.53	130	85204	4.231 ng		98
48) 1,4-Dioxane	16.51	88	2678	0.216 ng		89
49) Isooctane	16.62	57	11297	0.150 ng	#	8
50) Methyl Methacrylate	16.80	100	332	0.051 ng	#	72
51) n-Heptane	16.97	71	4623	0.265 ng	#	79
52) cis-1,3-Dichloropropene	17.74	75	888	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	78675	4.514 ng		84
54) trans-1,3-Dichloropropene	18.43	75	952	0.042 ng		65
55) 1,1,2-Trichloroethane	18.68	97	537	N.D. ✓		
58) Toluene	19.05	91	152954	2.091 ng		96
59) 2-Hexanone	19.37	43	29065	0.577 ng		76
60) Dibromochloromethane	19.61	129	1281	0.065 ng		90
61) 1,2-Dibromoethane	19.94	107	692	N.D. ✓		
62) Butyl Acetate	20.19	43	10512	0.206 ng		87
63) n-Octane	20.35	57	17290	1.069 ng		89
64) Tetrachloroethene	20.55	166	16214	0.749 ng		100
65) Chlorobenzene	21.41	112	9693	0.198 ng		85
66) Ethylbenzene	21.89	91	51172	0.610 ng		92
67) m- & p-Xylene	22.10	91	154413	2.753 ng		93
68) Bromoform	22.21	173	1420	0.097 ng		98
69) Styrene	22.57	104	6120	0.122 ng		96
70) o-Xylene	22.71	91	67415	1.113 ng		92
71) n-Nonane	22.98	43	123909	2.882 ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.68	83	2934	0.116 ng	#	71
74) Cumene	23.46	105	12080	0.150 ng		99
75) alpha-Pinene	23.96	93	4625	0.111 ng	#	46
76) n-Propylbenzene	24.10	91	58706	0.572 ng	#	1
77) 3-Ethyltoluene	24.23	105	115105	1.341 ng		100
78) 4-Ethyltoluene	24.28	105	89656	1.121 ng		95
79) 1,3,5-Trimethylbenzene	24.37	105	58336	0.807 ng		98

NO: < 90  
 6/6/08

NOT NEEDED

6/6/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	6055	0.155	ng	94
81) 2-Ethyltoluene	24.61	105	54138	0.622	ng	97
82) 1,2,4-Trimethylbenzene	24.88	105	161763	2.198	ng	87
83) n-Decane	24.98	57	67932	1.678	ng	74
84) Benzyl Chloride	25.04	91	5329	0.108	ng	94
85) 1,3-Dichlorobenzene	25.08	146	2423	<del>0.053</del>	ng	96
86) 1,4-Dichlorobenzene	25.15	146	98983	2.219	ng	100
87) sec-Butylbenzene	25.21	105	10178	0.108	ng	80
88) p-Isopropyltoluene	25.40	119	33458	0.432	ng	# 52
89) 1,2,3-Trimethylbenzene	25.40	105	152871	2.123	ng	89
90) 1,2-Dichlorobenzene	25.58	146	2280	<del>0.052</del>	ng	84
91) d-Limonene	25.58	68	6991	0.238	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.10	157	487	N.D.	✓	
93) n-Undecane	26.50	57	669390	15.796	ng	82
94) 1,2,4-Trichlorobenzene	27.63	180	2528	0.079	ng	93
95) Naphthalene	27.77	128	68462	0.705	ng	94
96) n-Dodecane	27.73	57	311385	7.389	ng	84
97) Hexachloro-1,3-butadiene	28.19	225	4039	0.190	ng	91

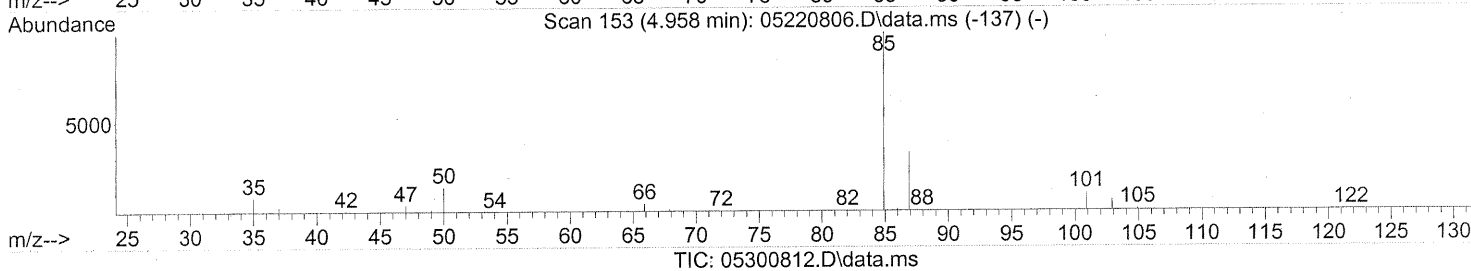
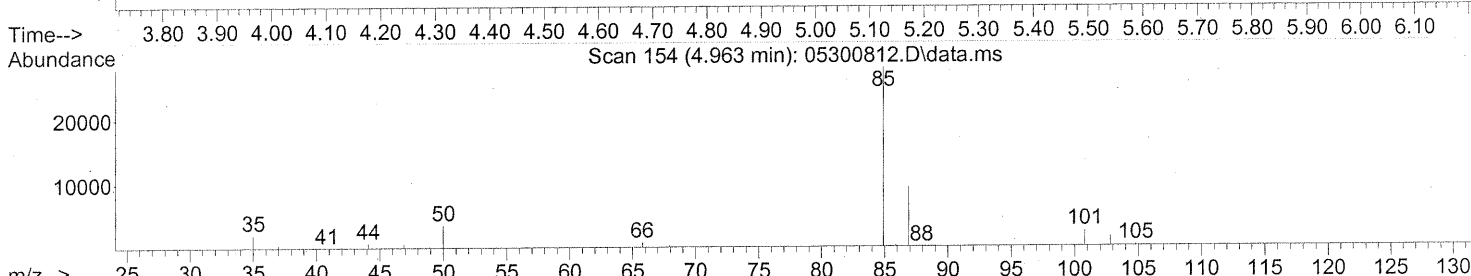
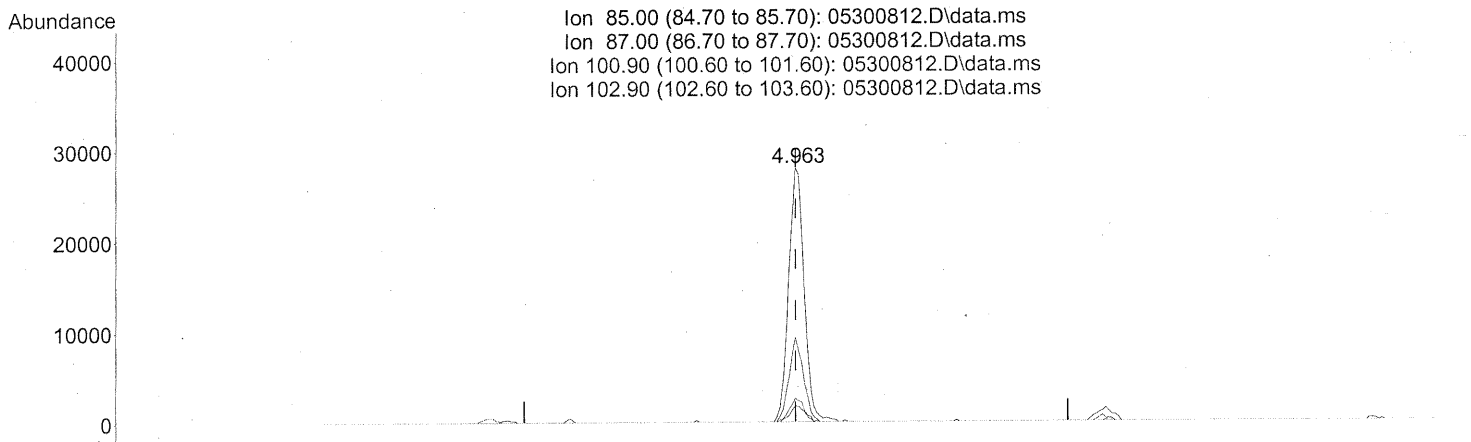
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*6/04/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.33ng

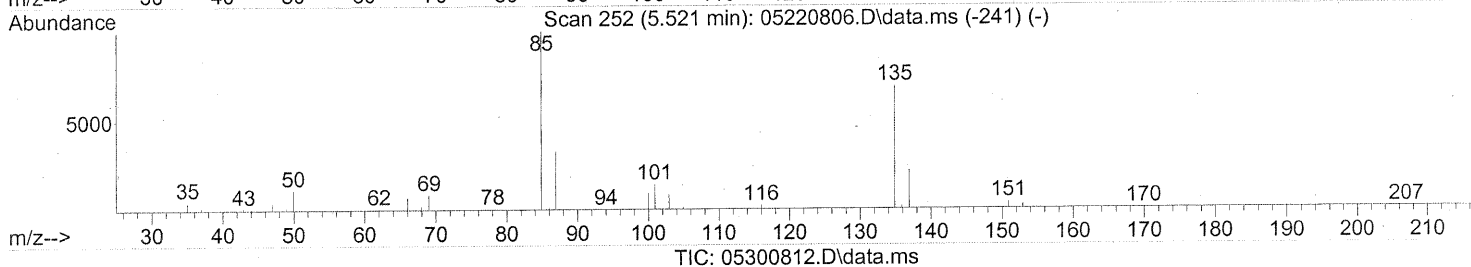
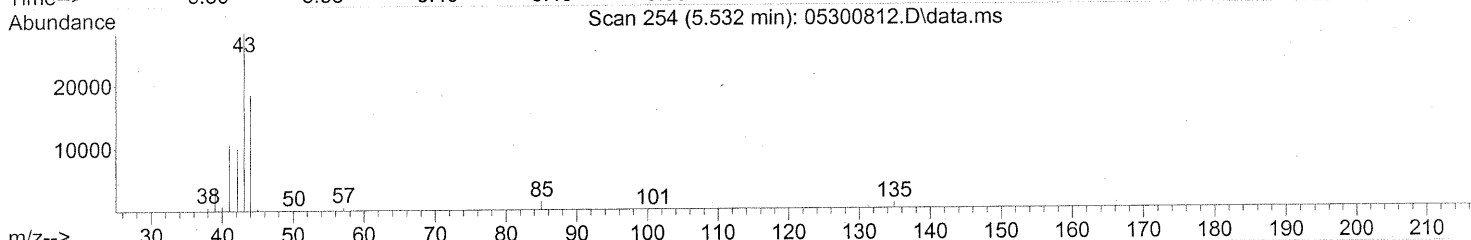
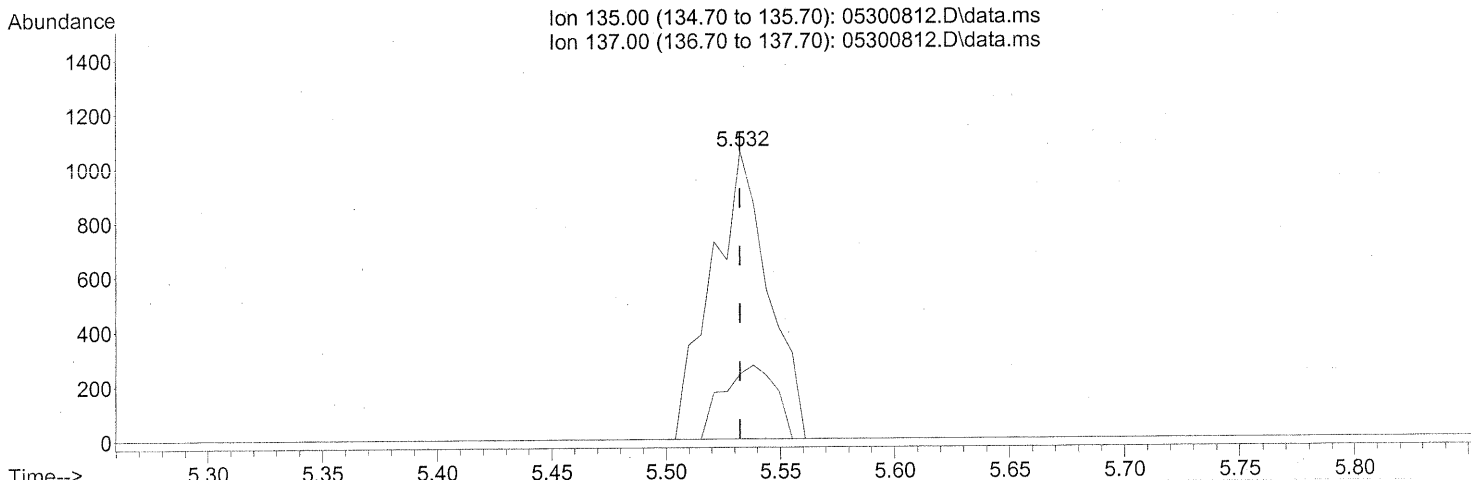
response 55658

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.00
100.90	9.30	8.86
102.90	6.00	5.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.532min (-0.000) 0.09ng  
 response 1810

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	23.81
0.00	0.00	0.00
0.00	0.00	0.00

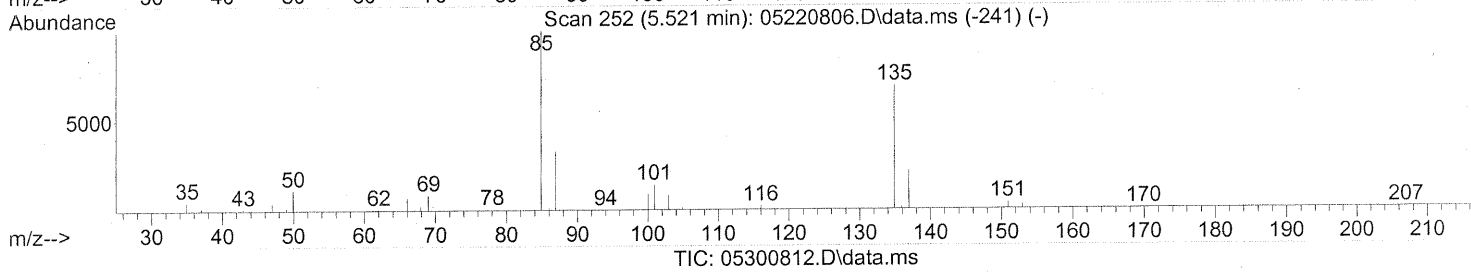
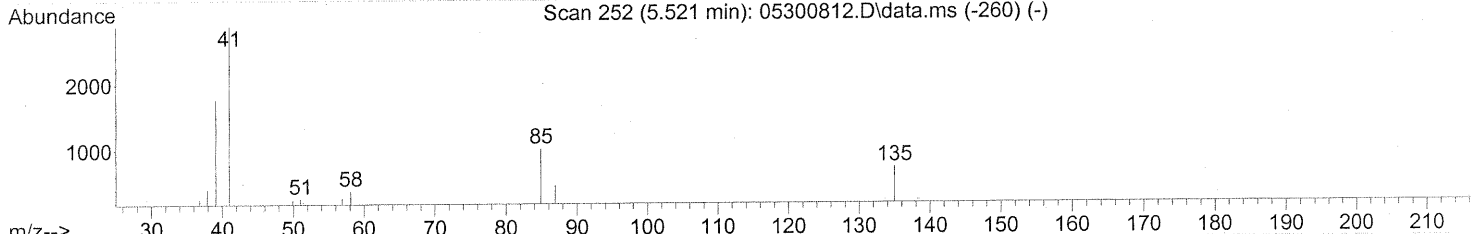
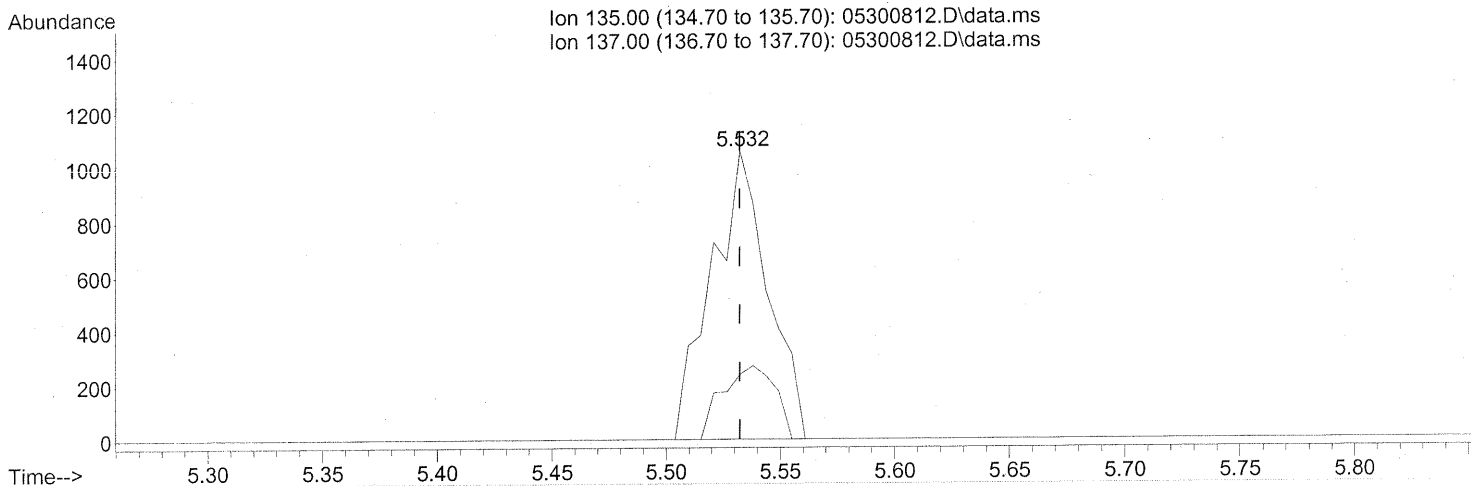
*BEFORE SUBTRACTION*



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.532min (-0.000) 0.09ng  
 response 1810

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	23.81
0.00	0.00	0.00
0.00	0.00	0.00

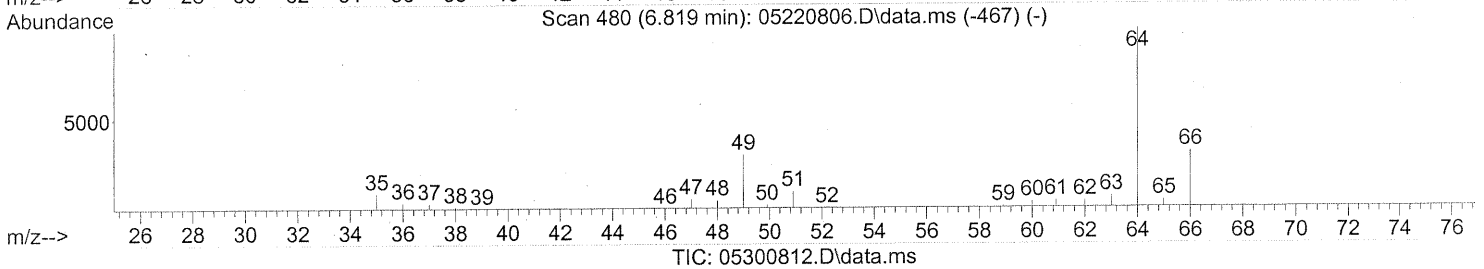
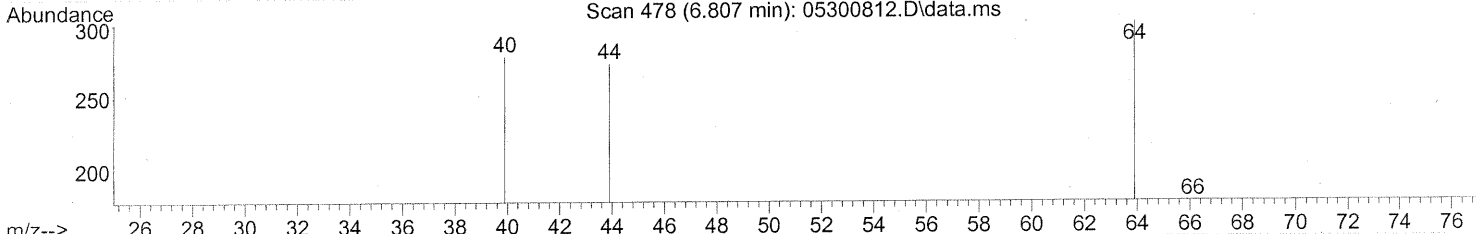
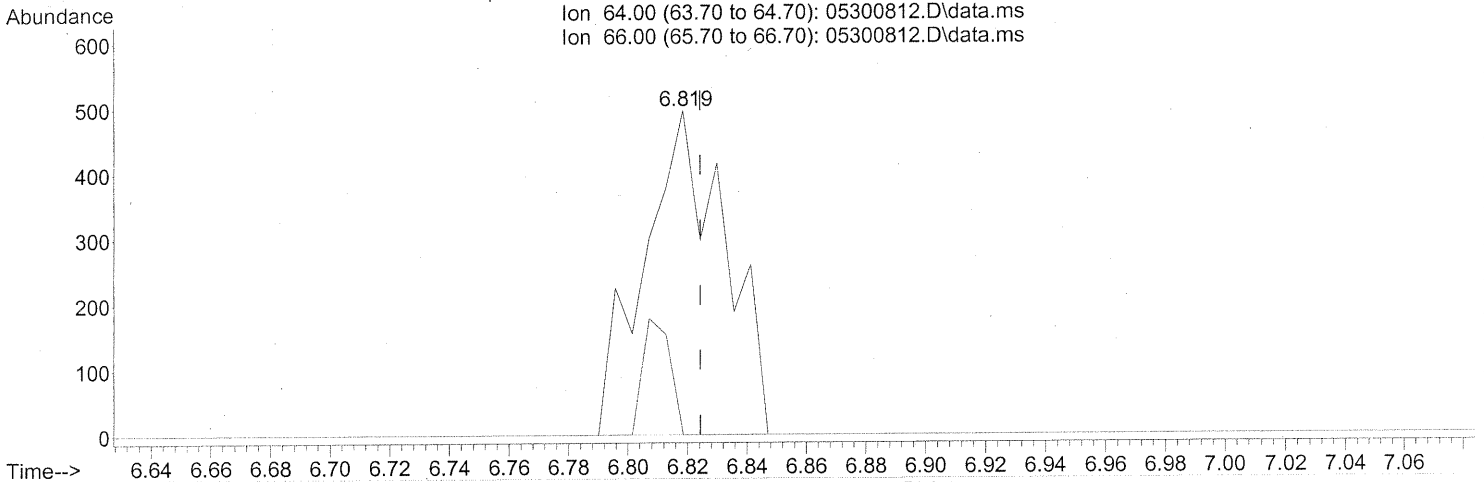
AFTER SUBTRACTION  
 5/30/08

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



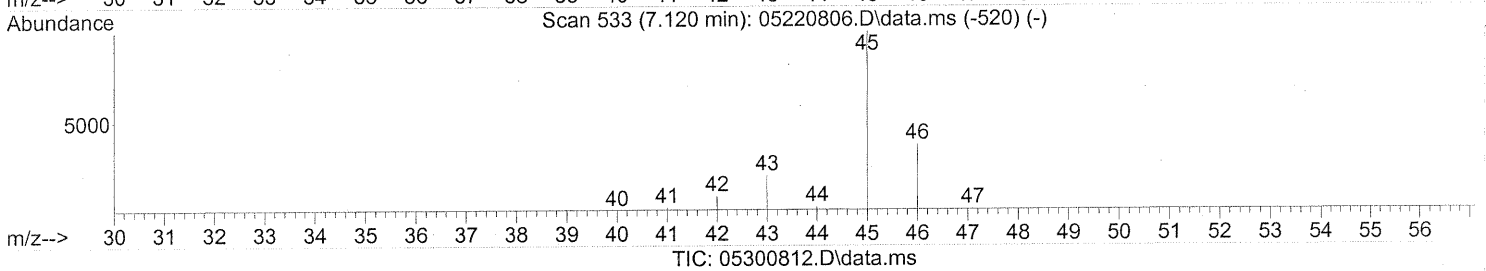
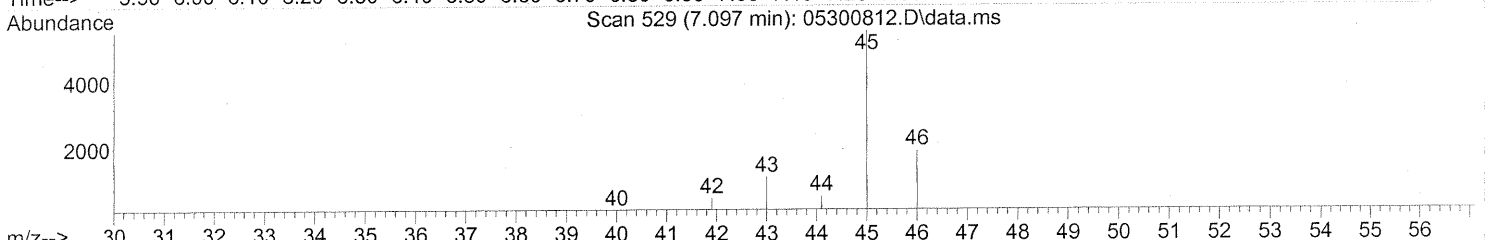
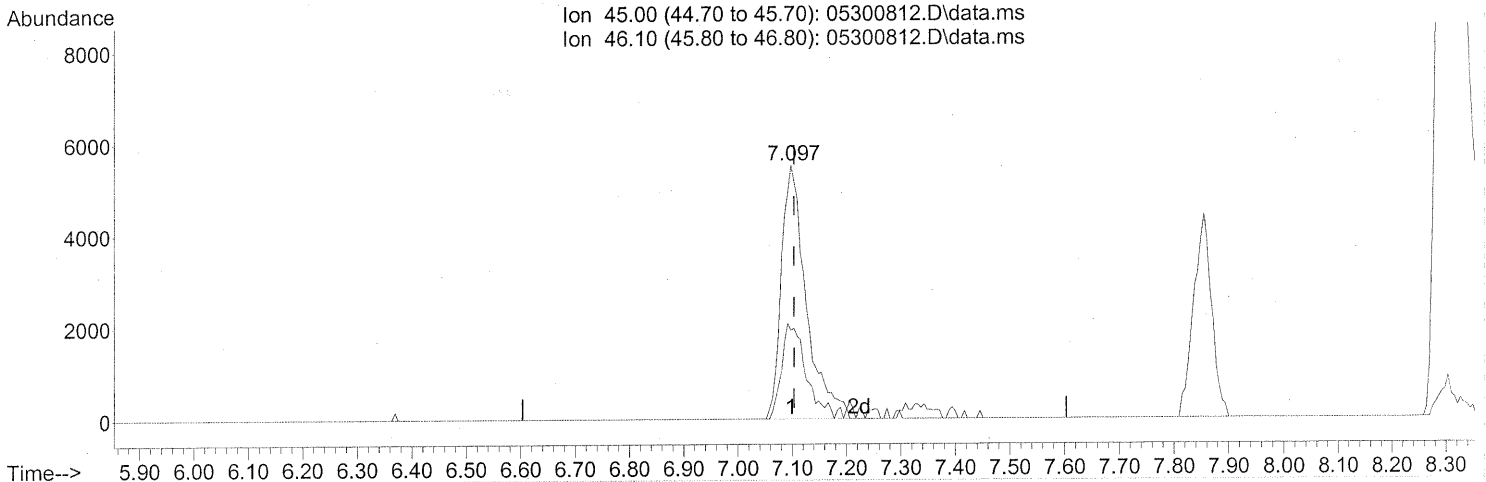
(9) Chloroethane (T)  
 6.819min (-0.006) 0.07ng  
 response 927

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	12.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 1.17ng

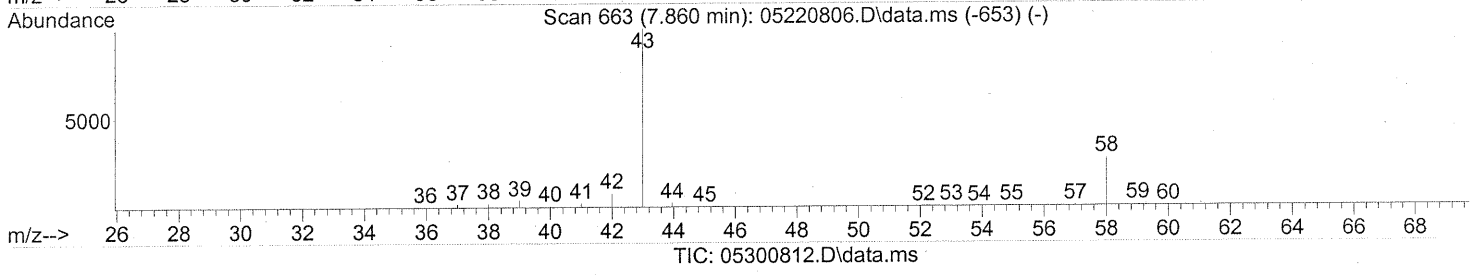
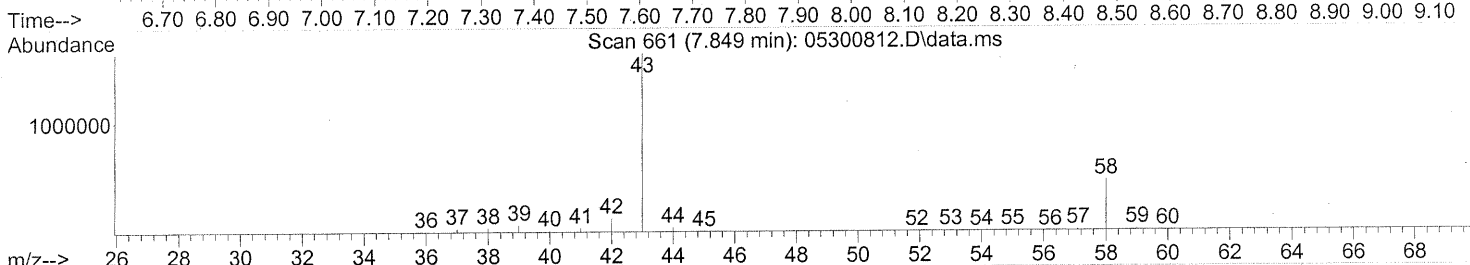
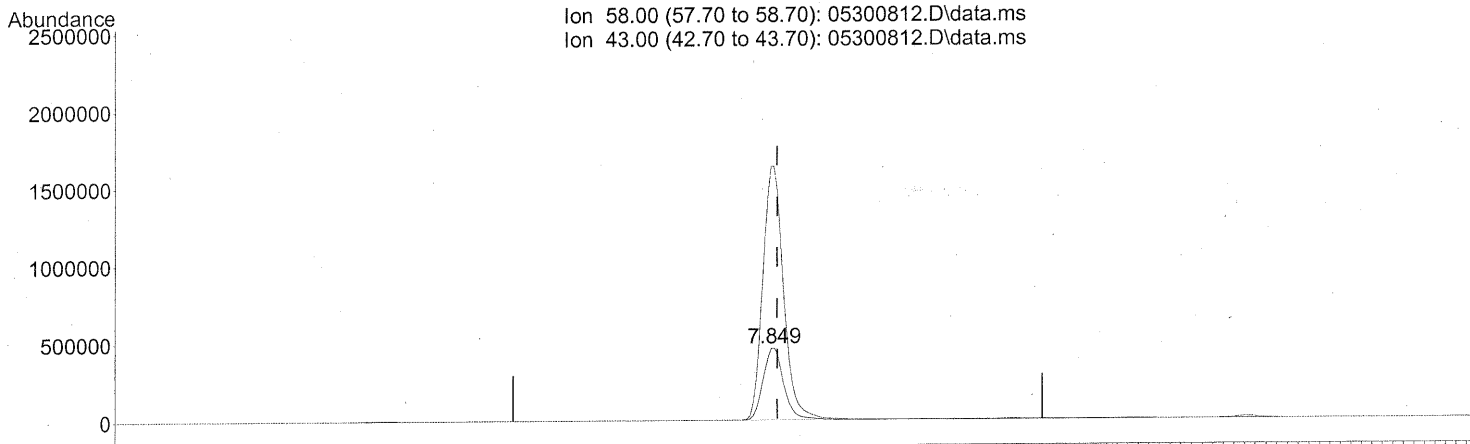
response 17637

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300812.D  
Acq On : 30 May 2008 4:33 pm  
Operator : WA  
Sample : P0801548-003 (1000ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.849min (-0.011) 81.12ng

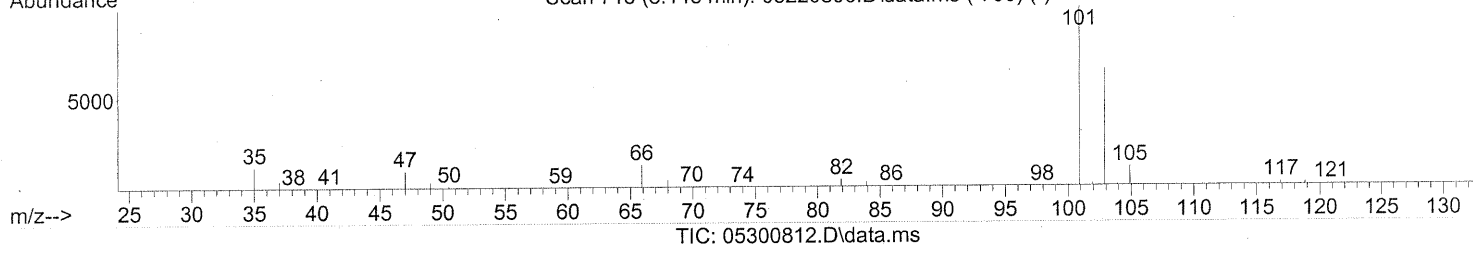
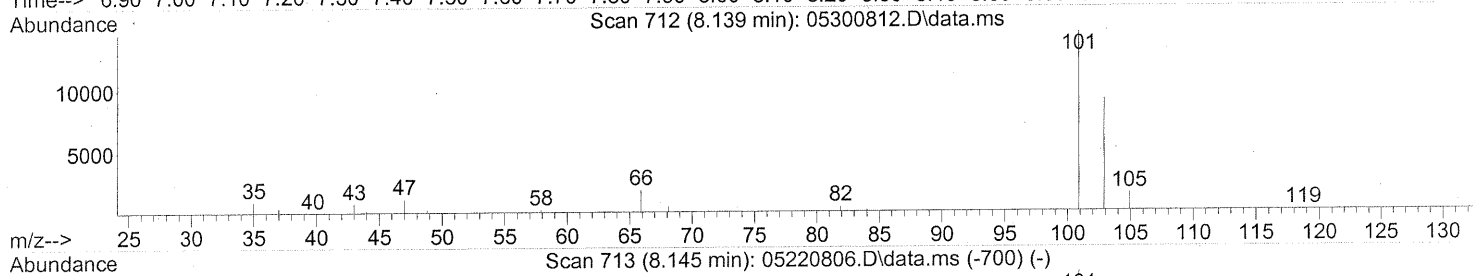
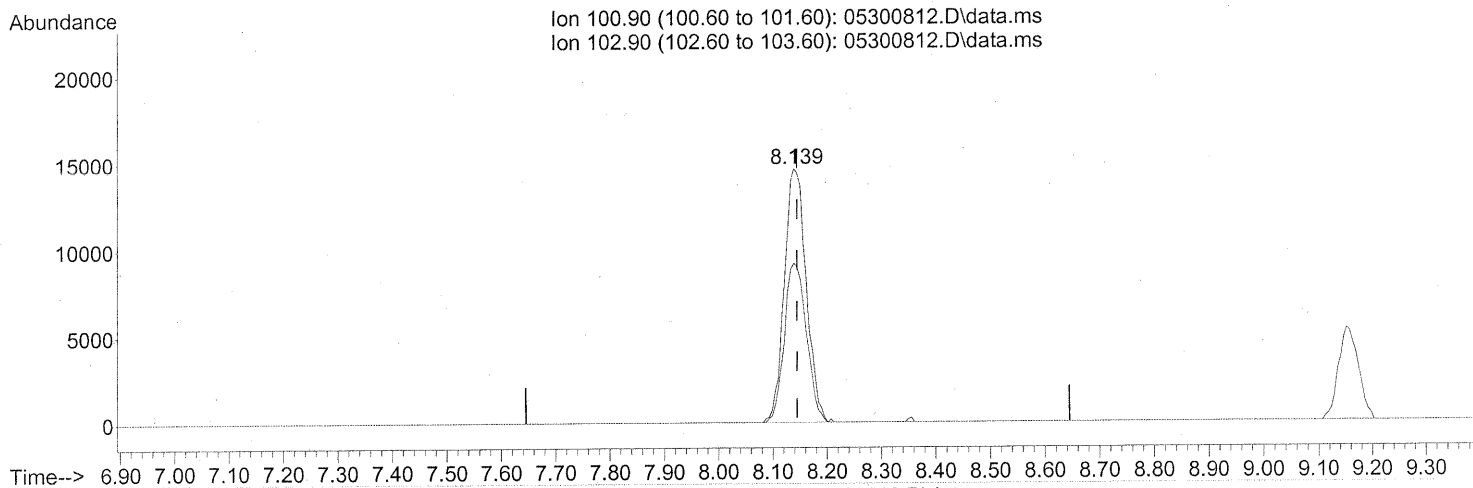
response 1256939

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	357.16#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 1.14ng

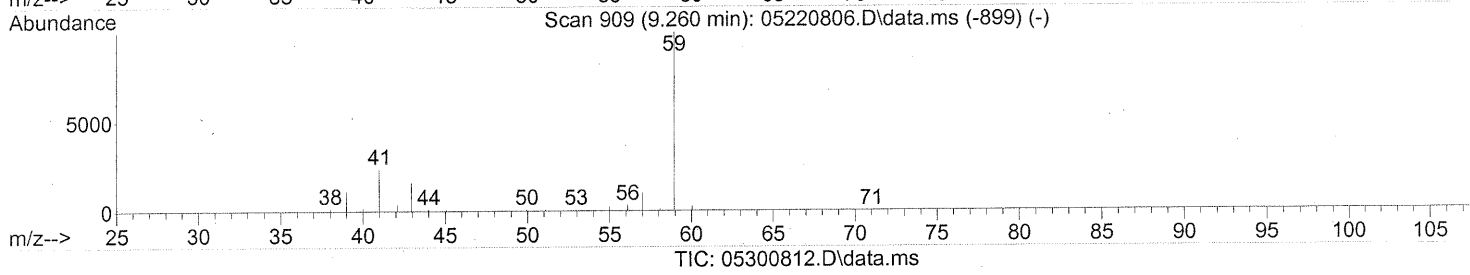
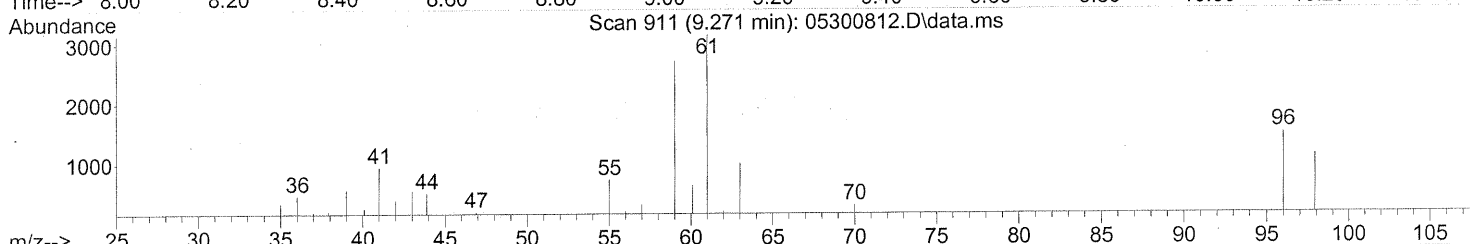
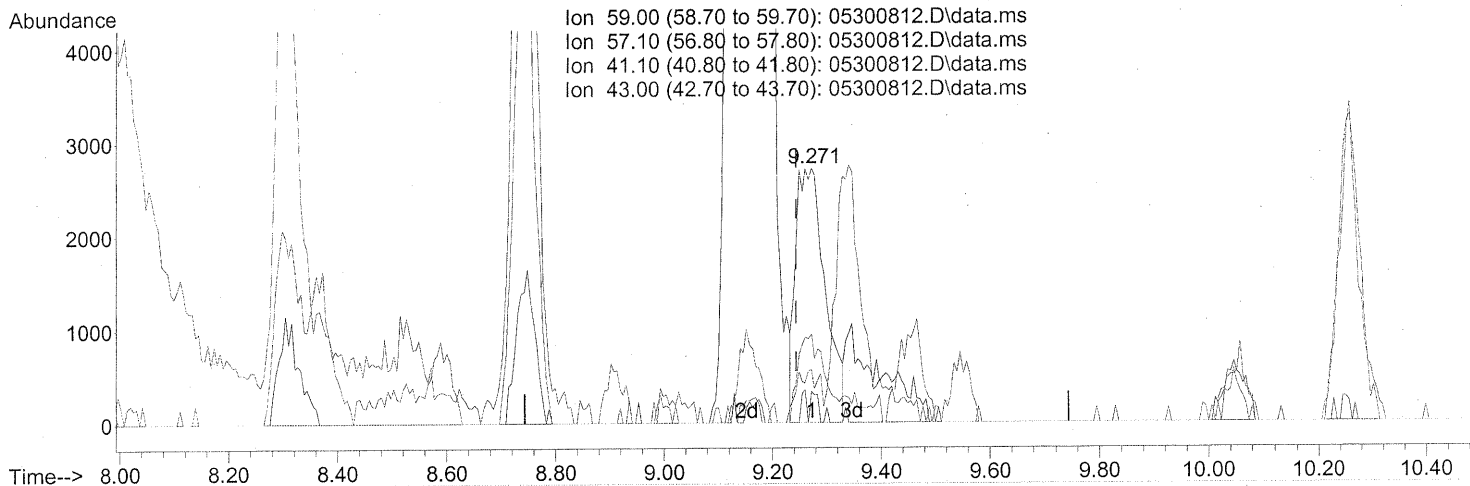
response 40954

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)

9.271min (+0.028) 0.24ng

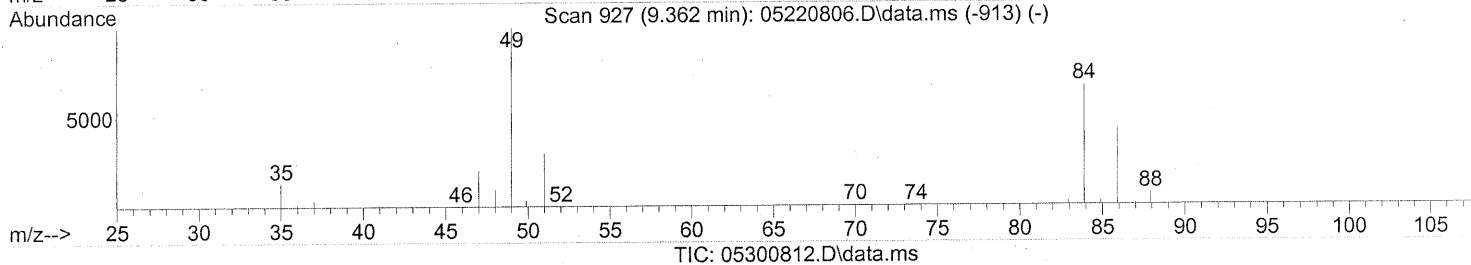
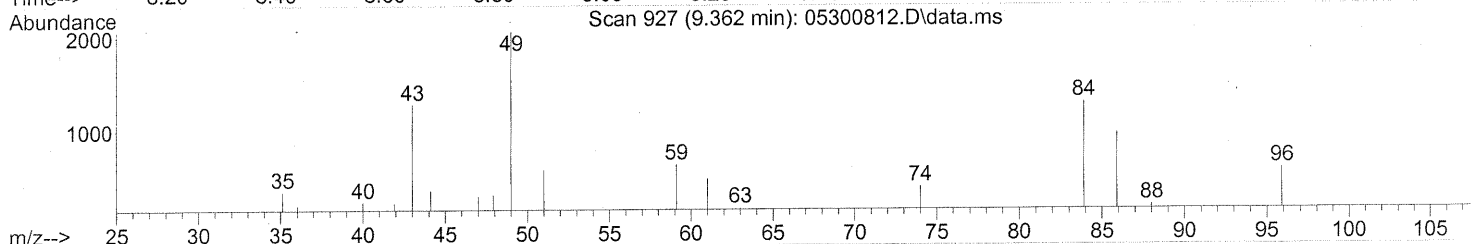
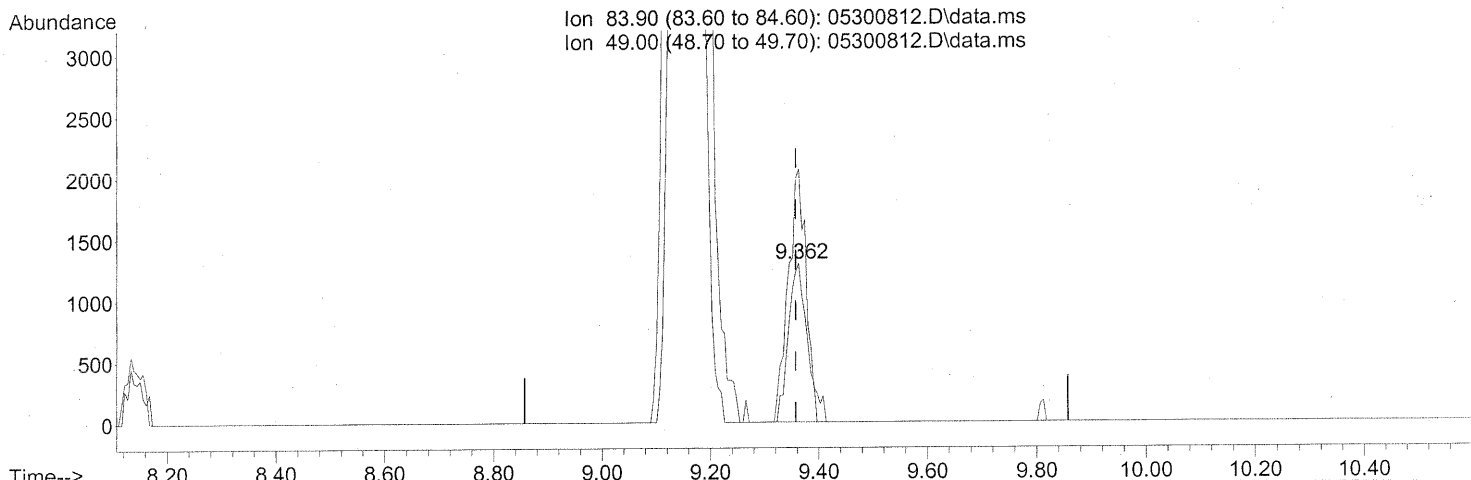
response 10197

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.08
41.10	20.10	39.00
43.00	12.30	15.91

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.17ng

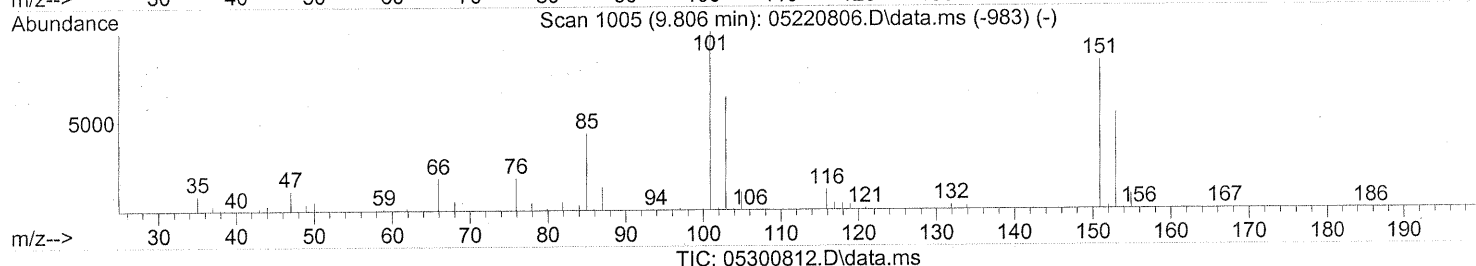
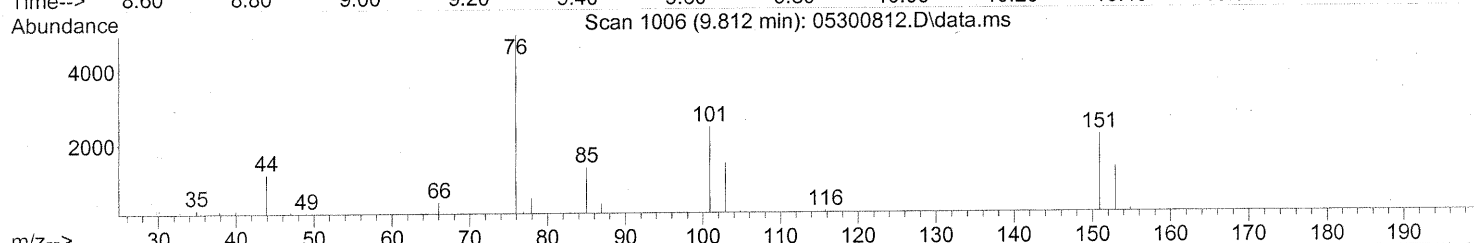
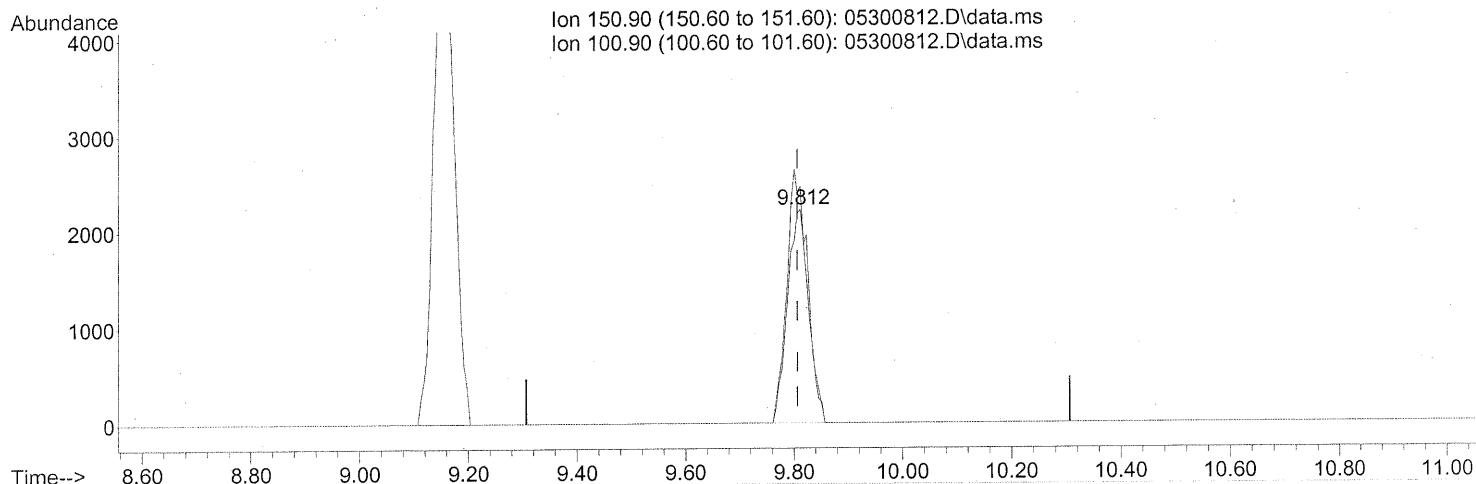
response 2969

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	165.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.37ng

response 6008

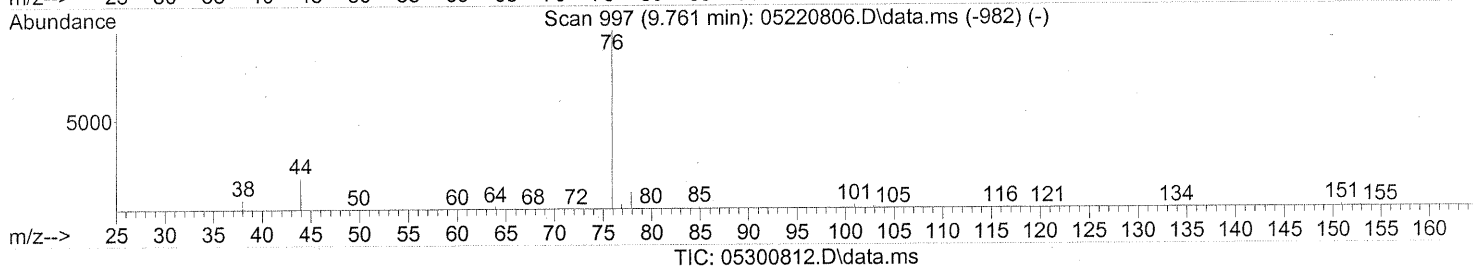
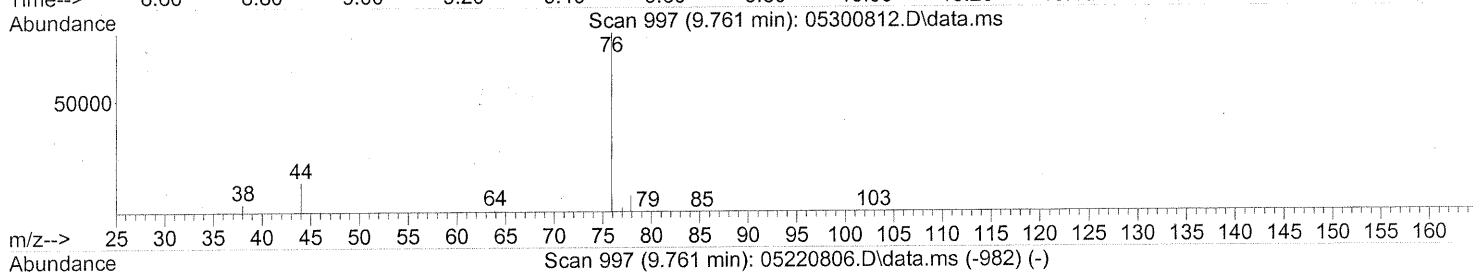
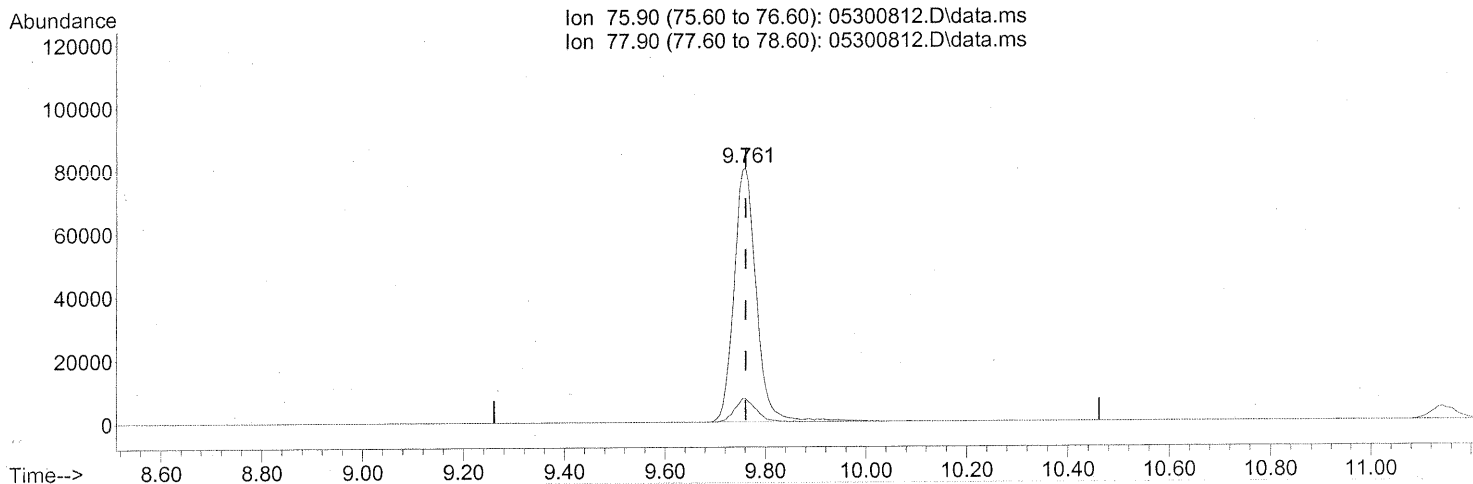
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	116.93
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.761min (-0.000) 3.70ng

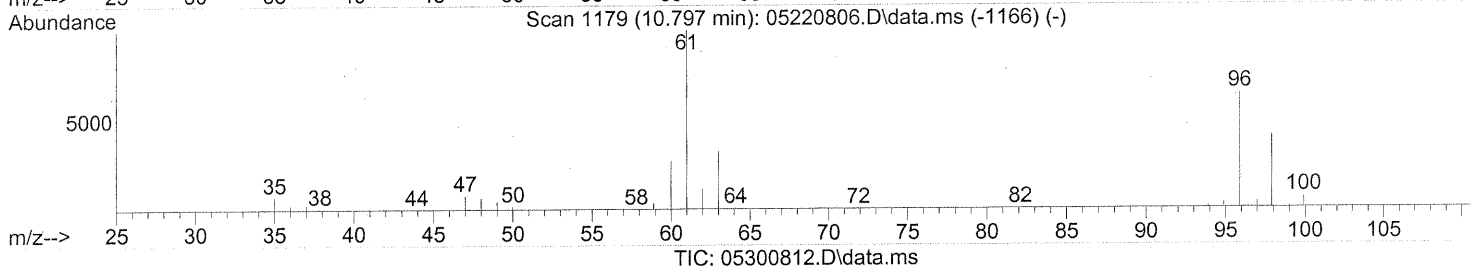
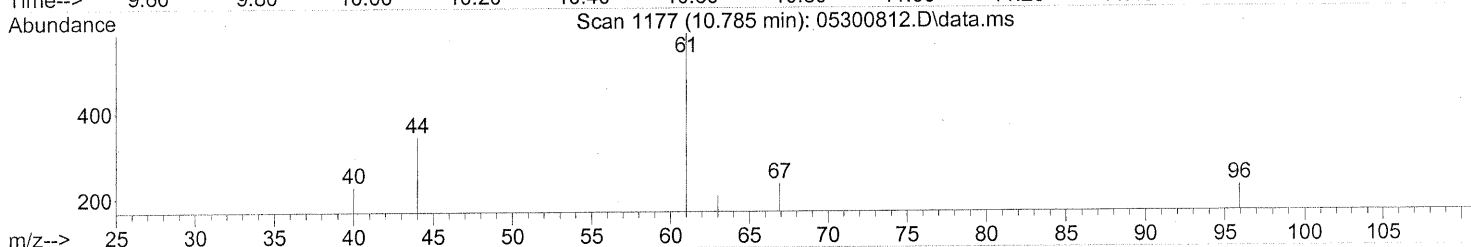
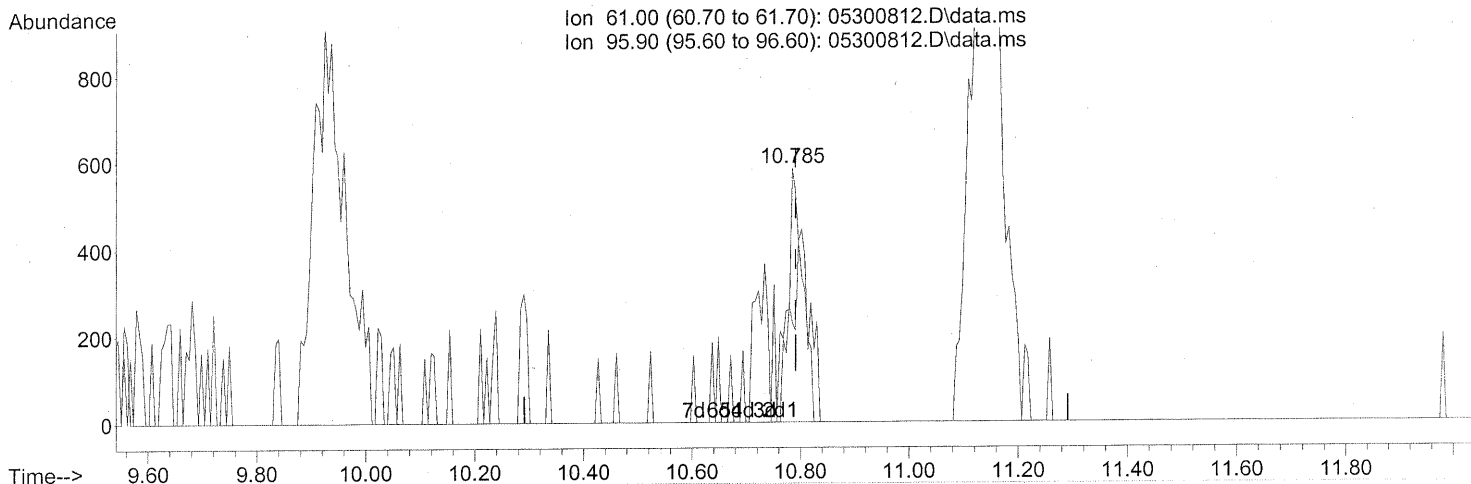
response 243222

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(23) trans-1,2-Dichloroethene (T)

10.785min (-0.006) 0.05ng

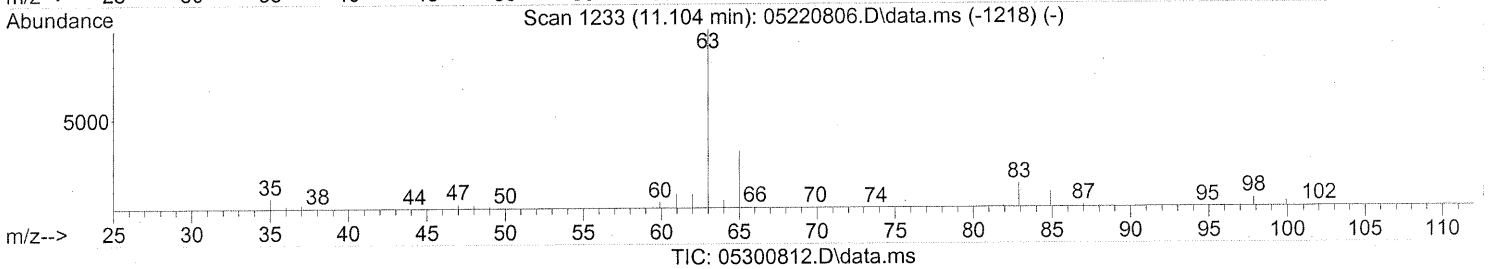
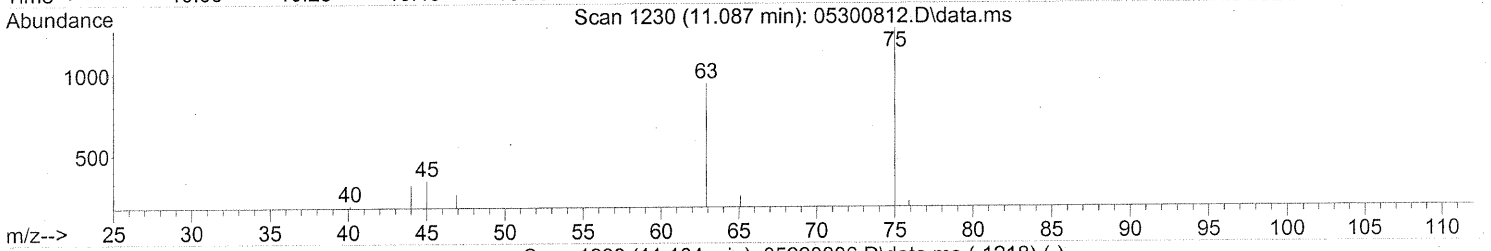
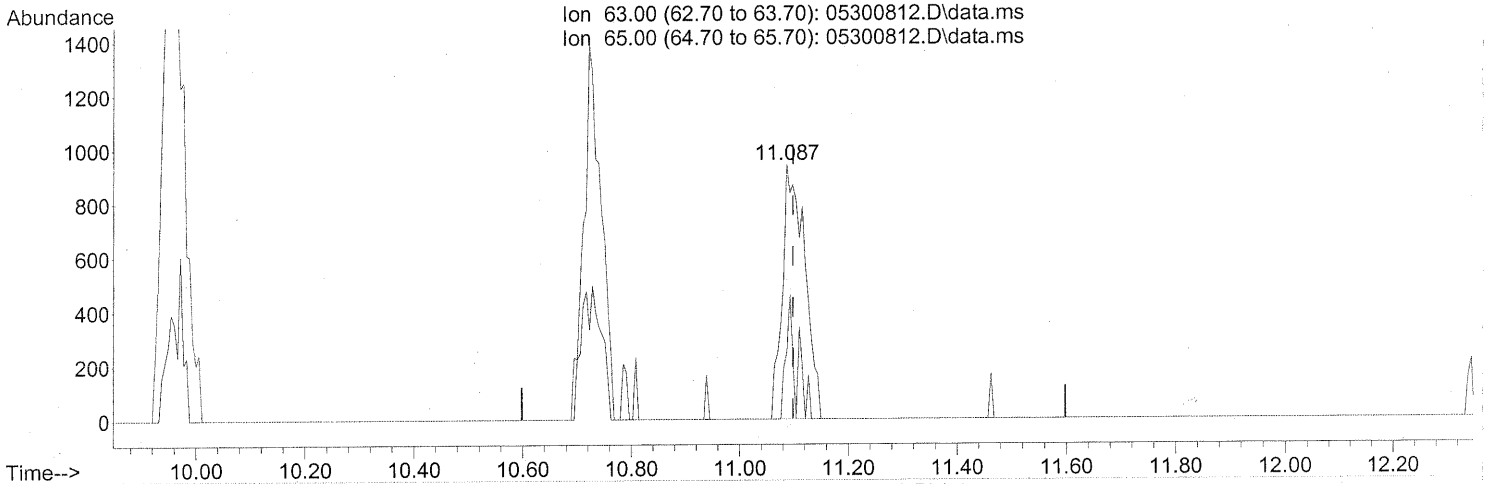
response 1406

Ion	Exp%	Act%
61.00	100	100
95.90	54.20	59.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.087min (-0.011) 0.09ng

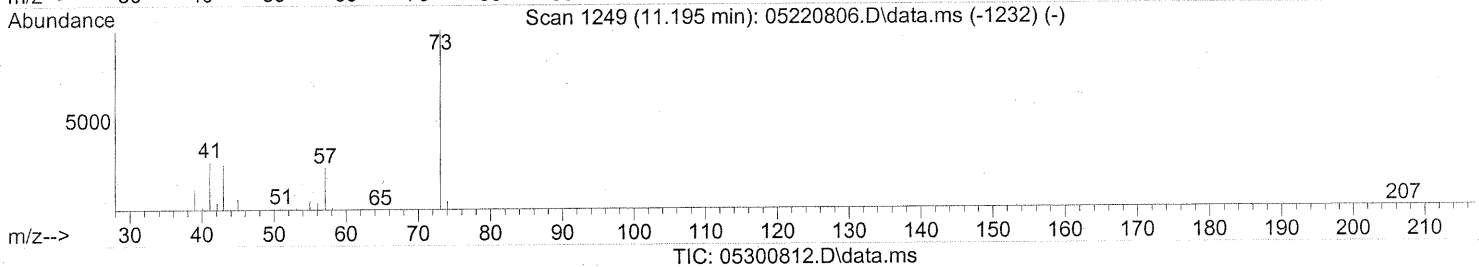
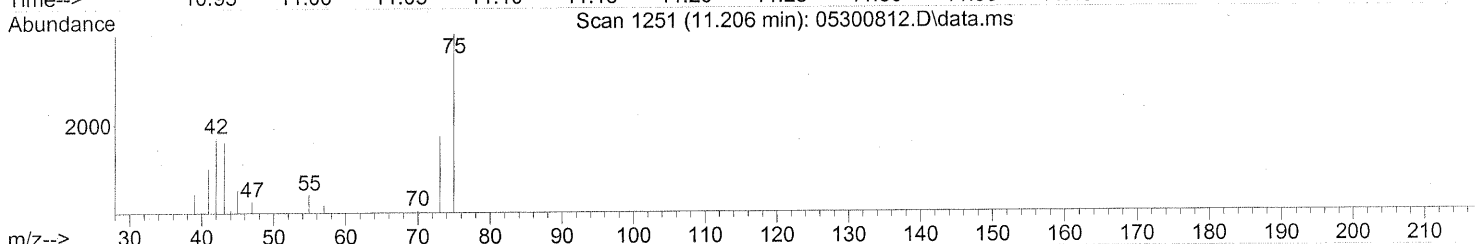
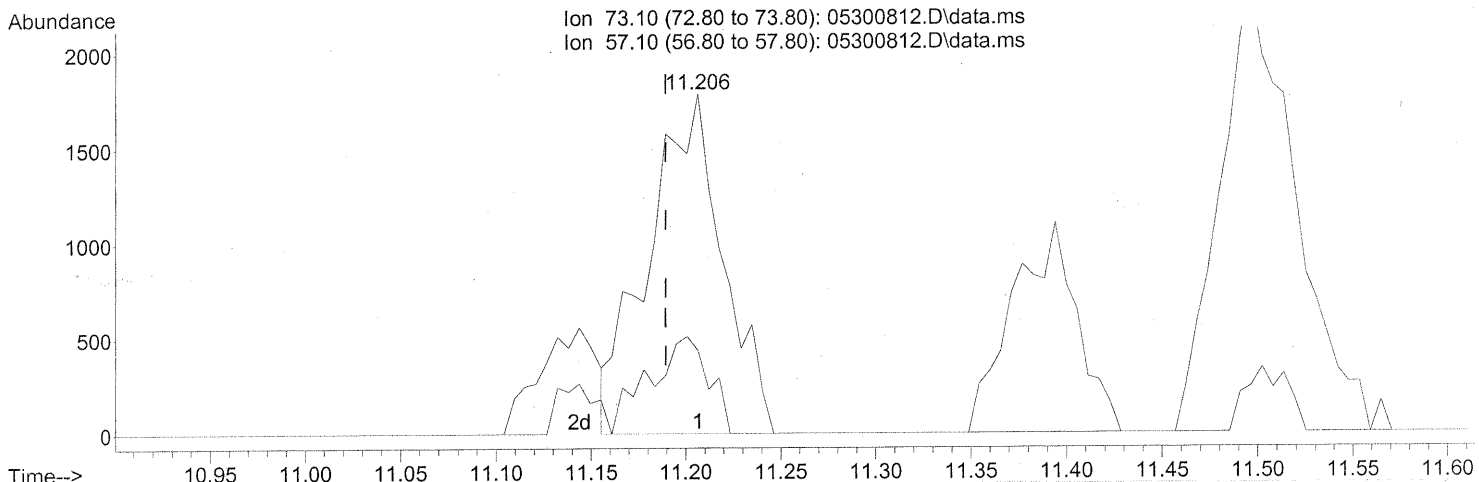
response 2679

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	14.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.206min (+0.017) 0.10ng

response 4860

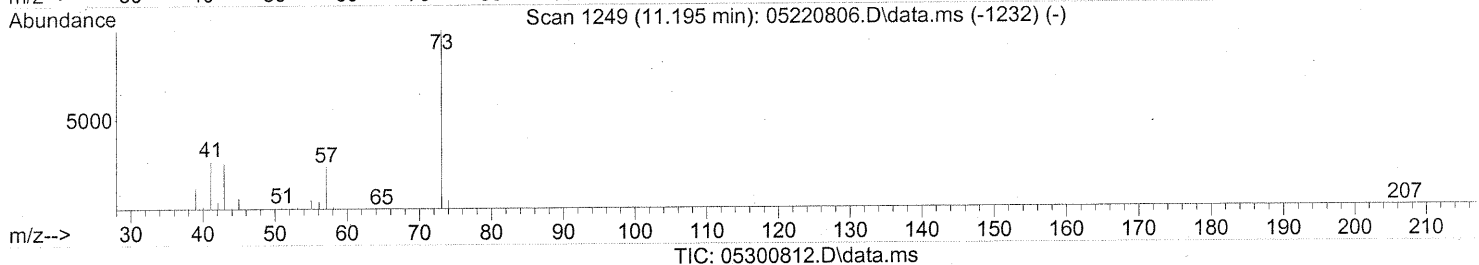
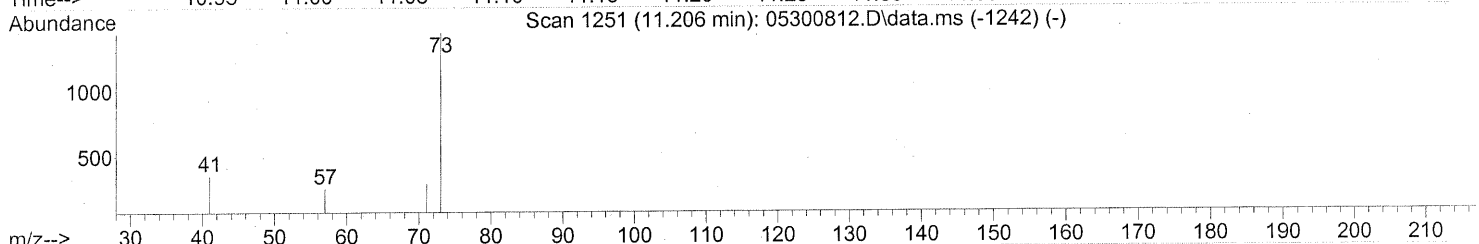
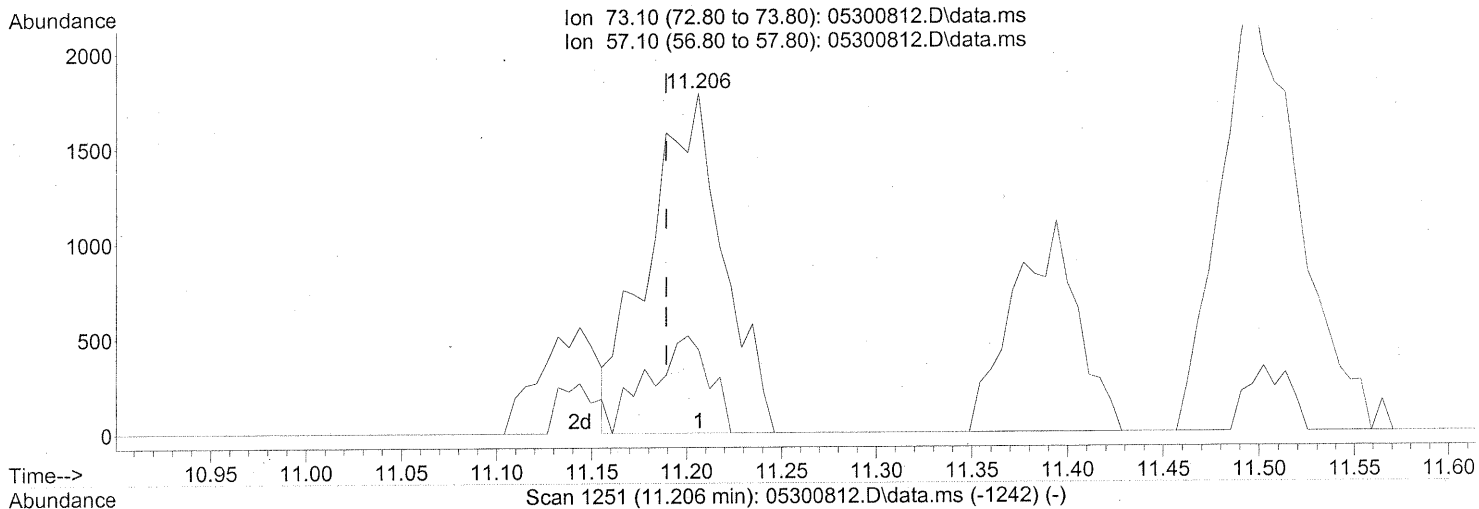
Ion	Exp%	Act%
73.10	100	100
57.10	31.40	22.96
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.206min (+0.017) 0.10ng

response 4860

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	22.96
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

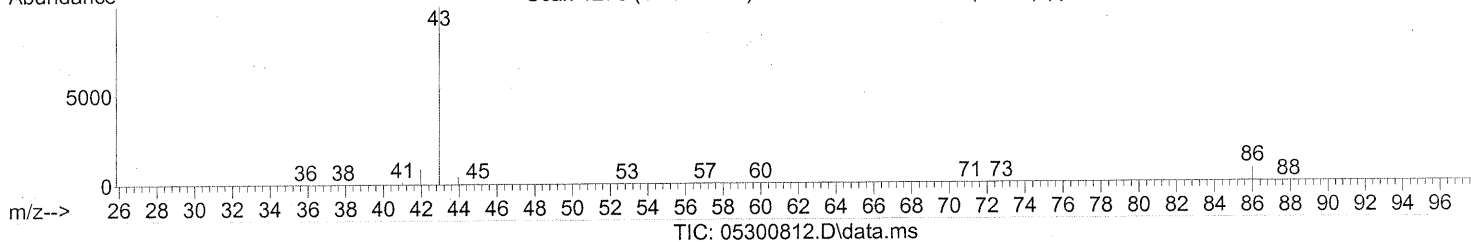
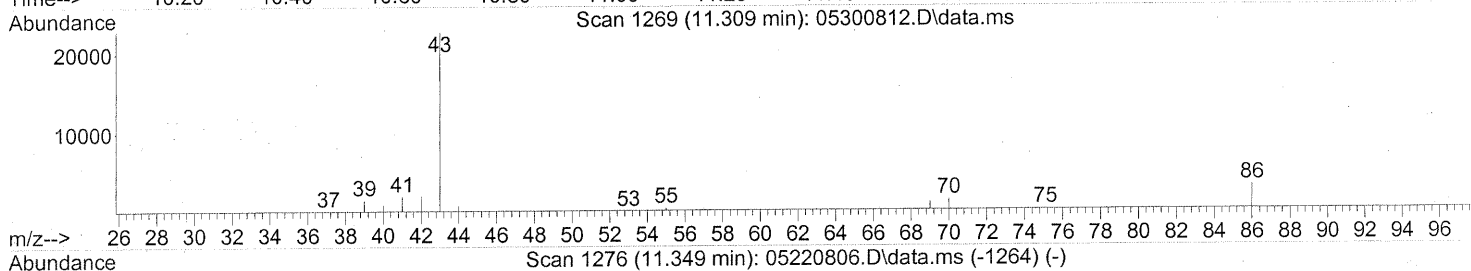
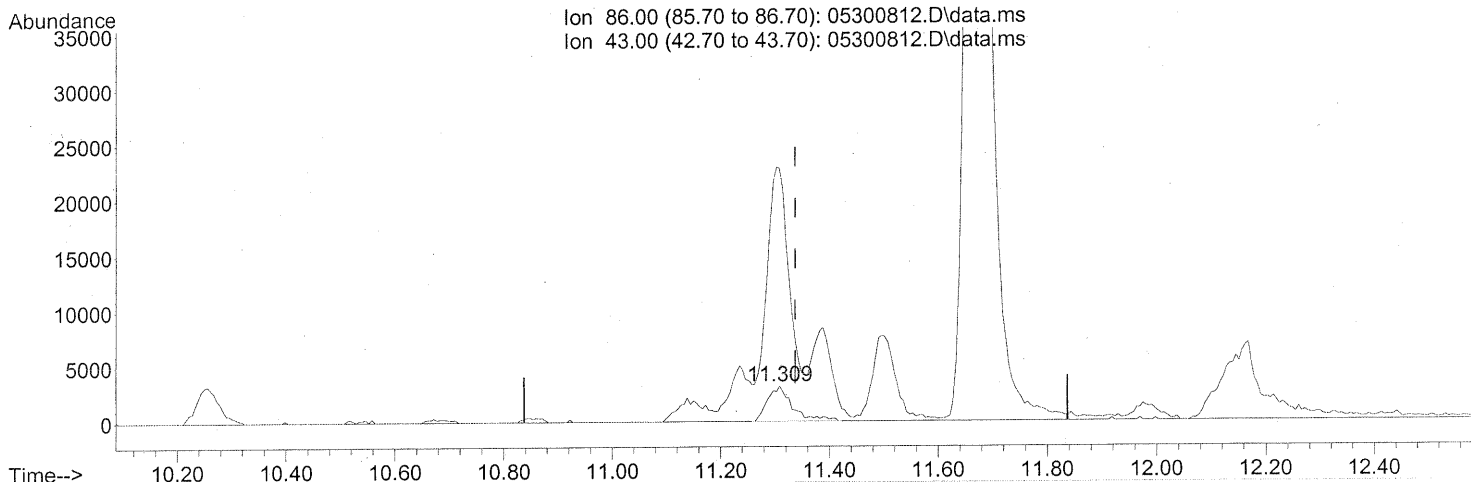
Pos/04/08

E. 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.309min (-0.028) 3.48ng

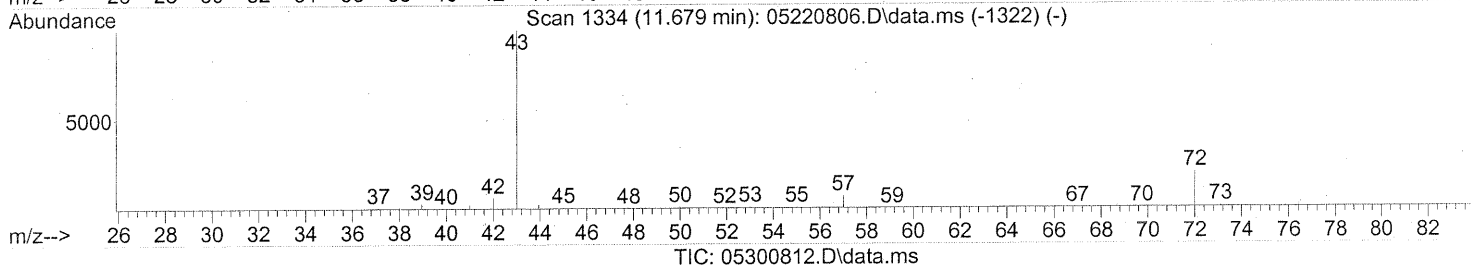
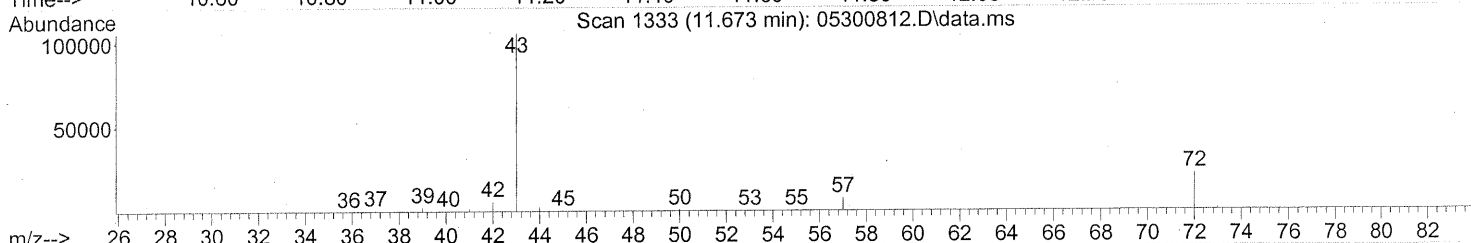
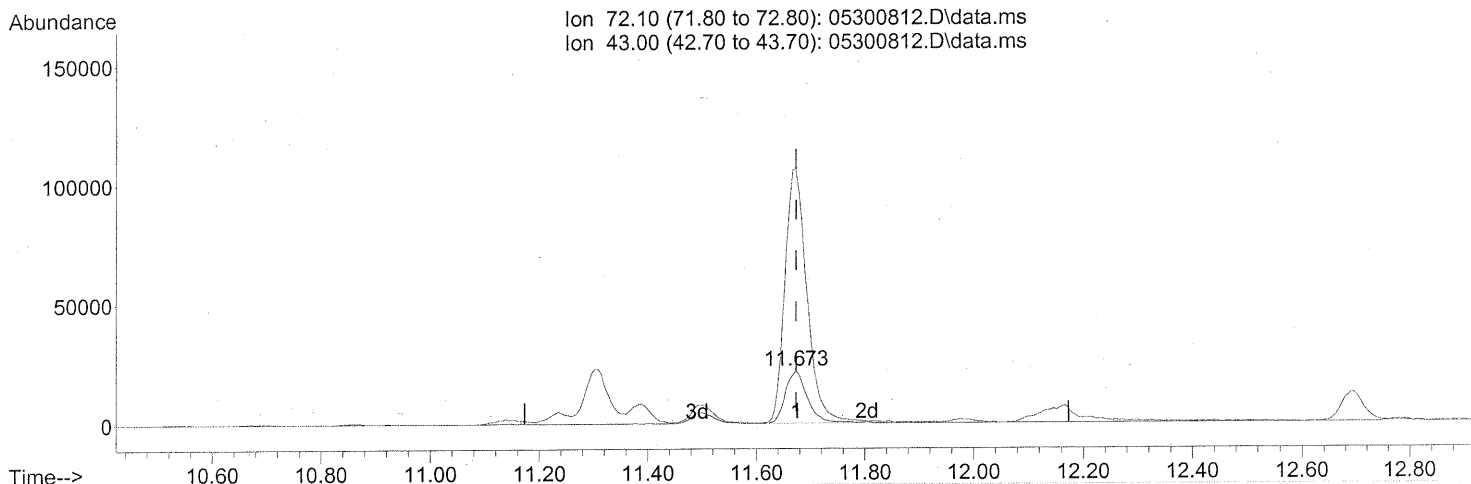
response 9974

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	696.36#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.673min (-0.000) 5.36ng

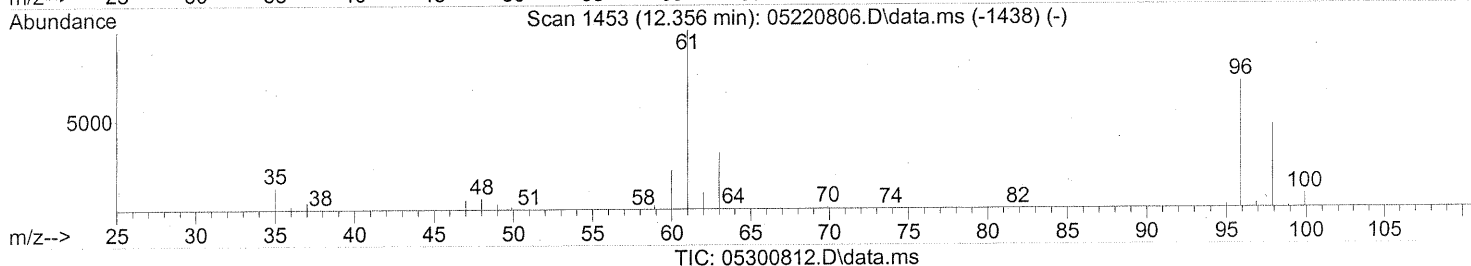
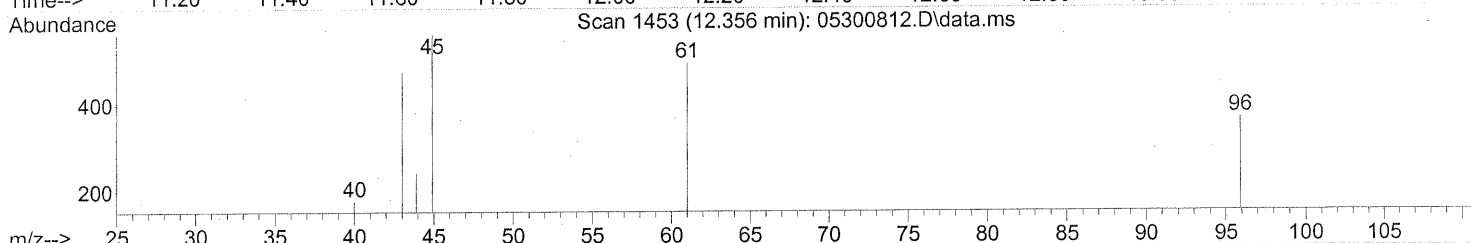
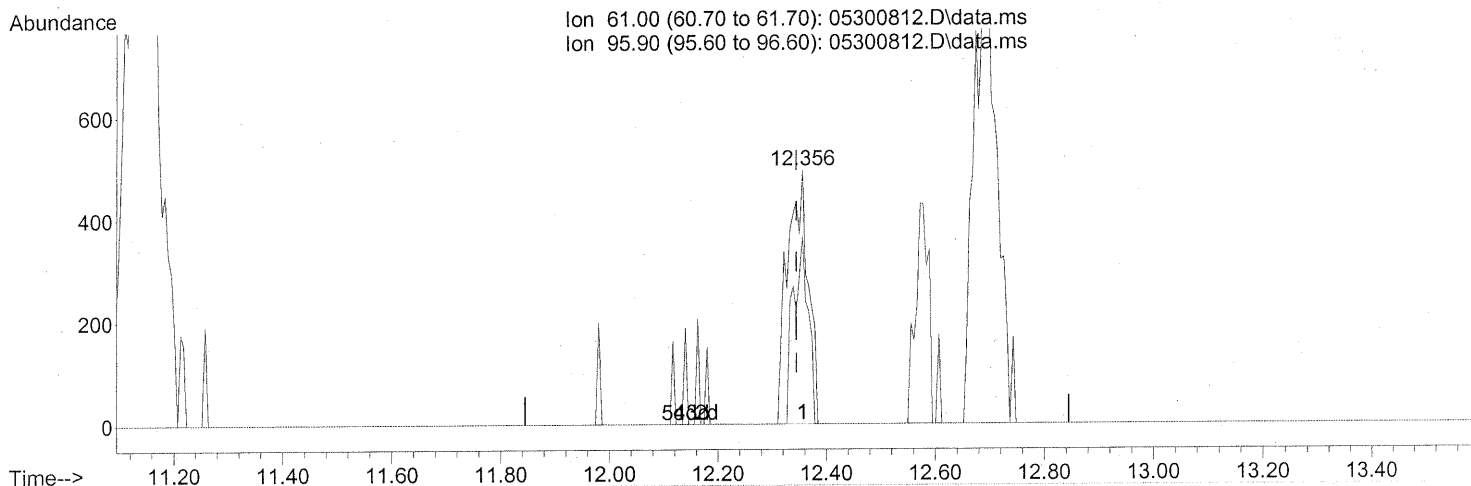
response 60595

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	493.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.356min (+0.011) 0.05ng

response 1305

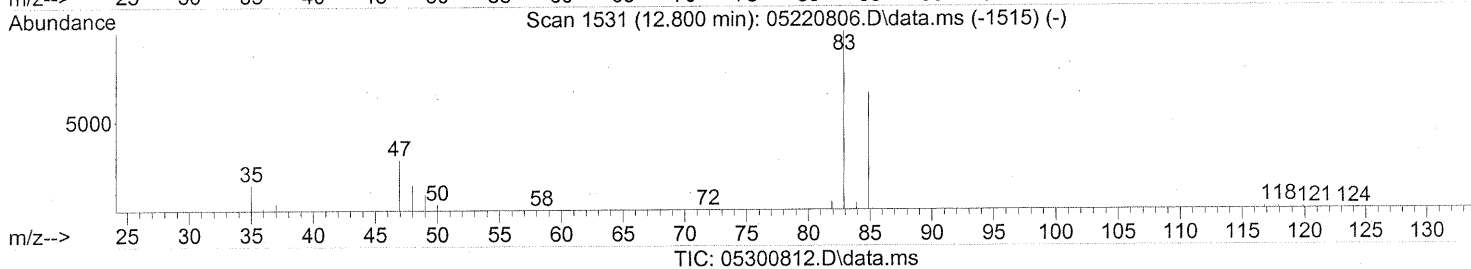
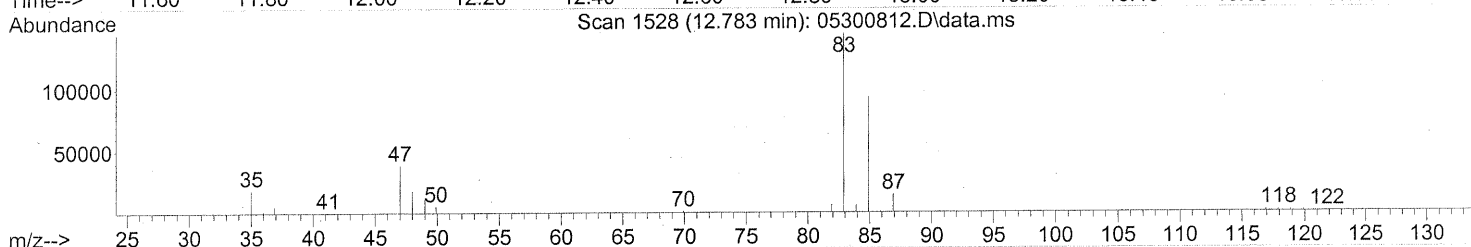
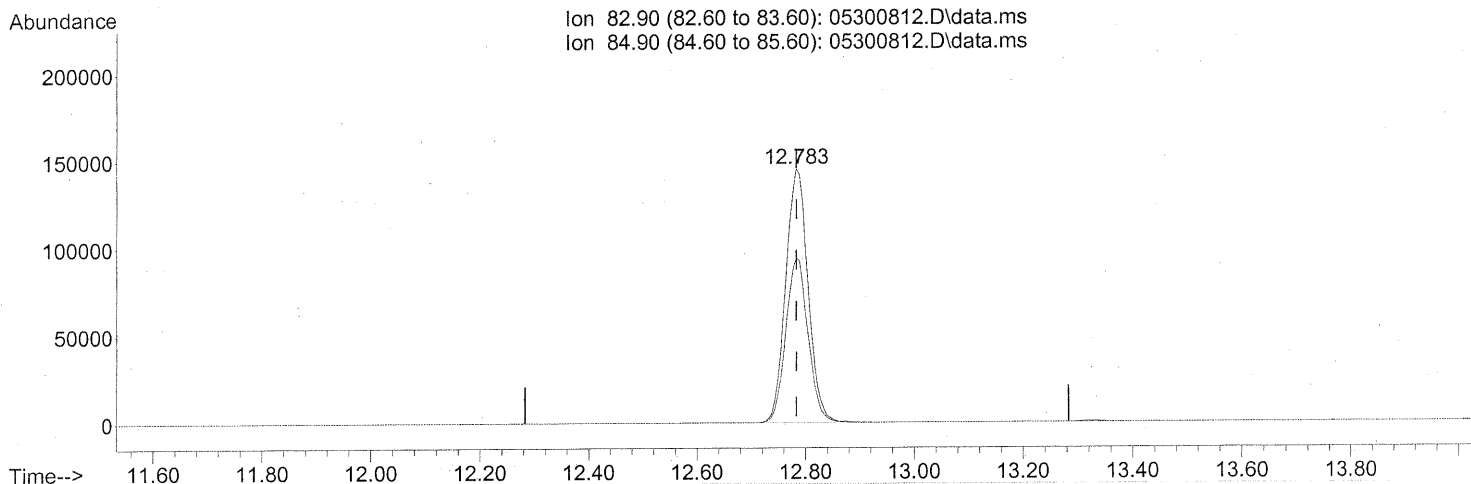
Ion	Exp%	Act%
61.00	100	100
95.90	59.60	52.64
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



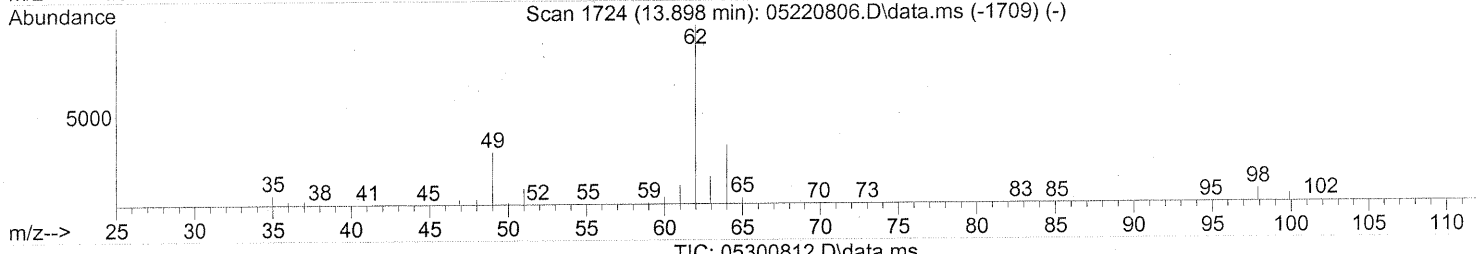
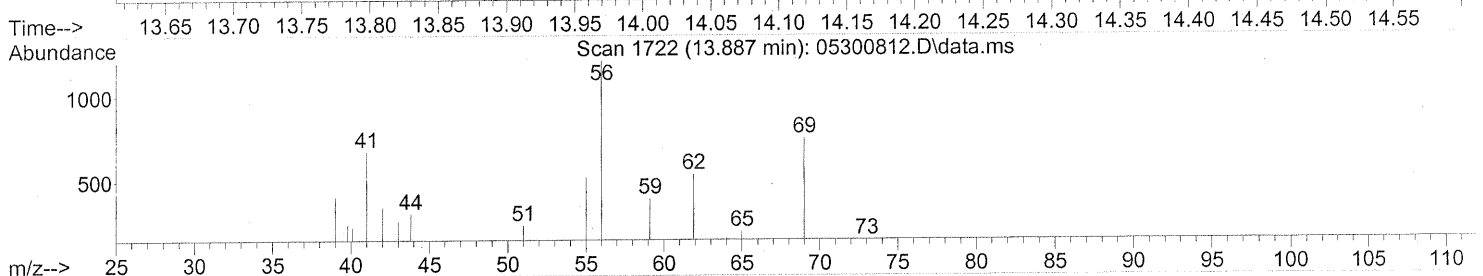
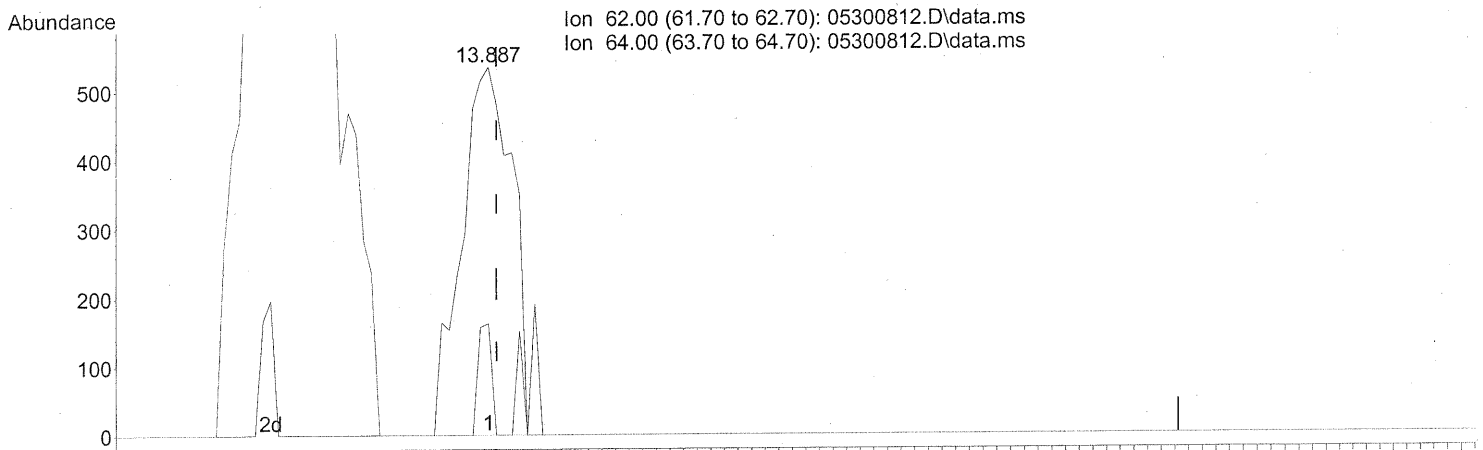
(32) Chloroform (T)  
 12.783min (-0.000) 15.76ng  
 response 413515

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.887min (-0.006) 0.06ng

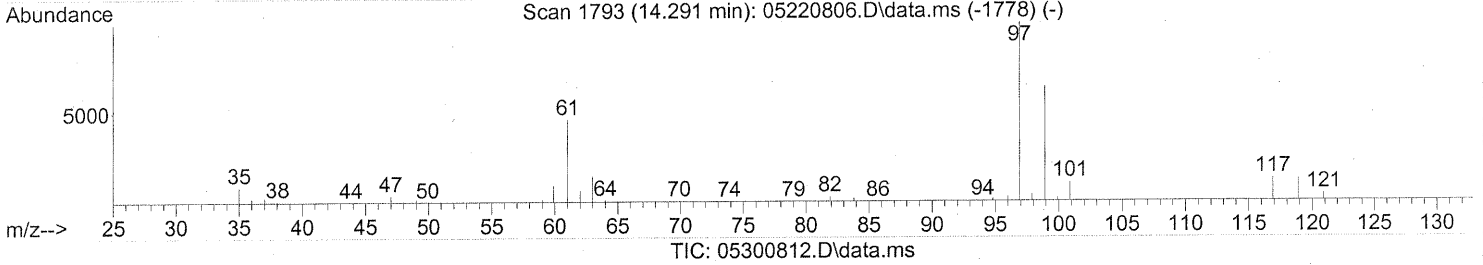
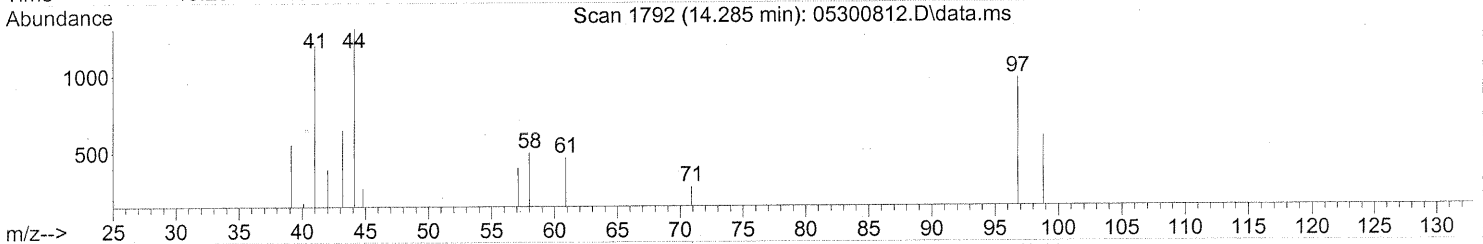
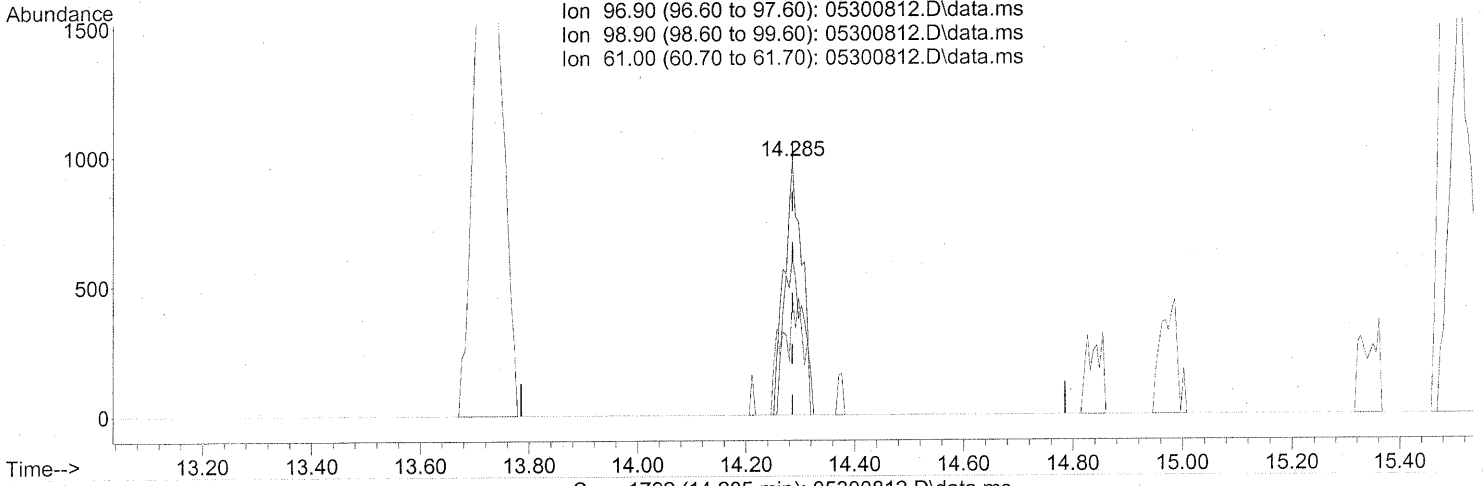
response 1438

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	7.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 0.08ng

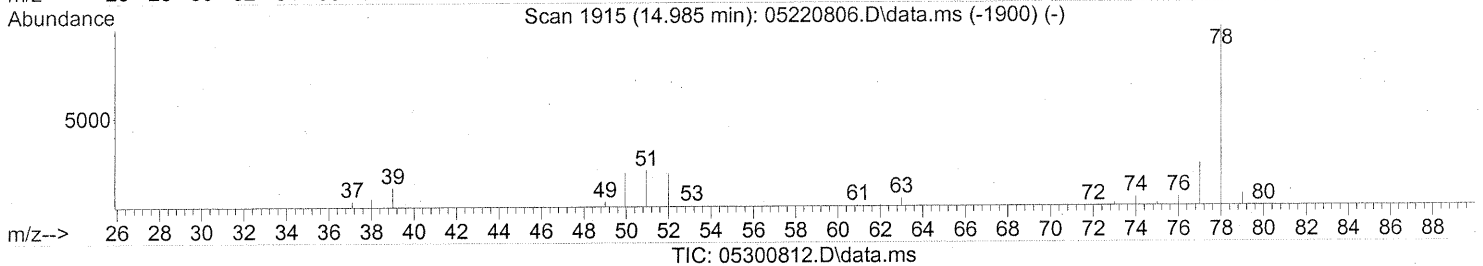
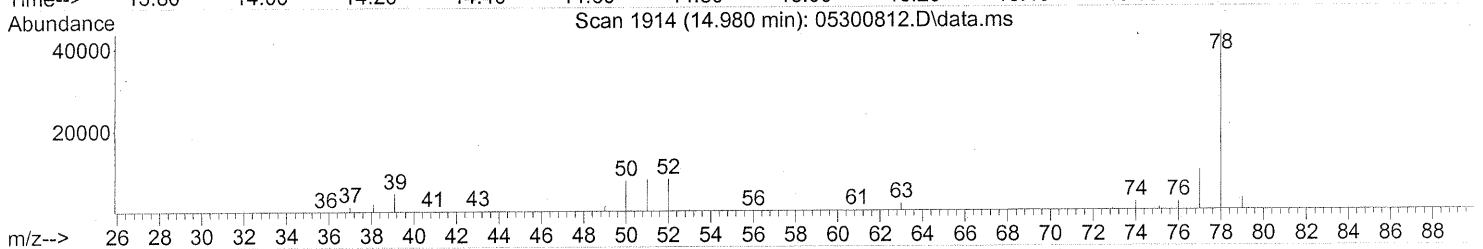
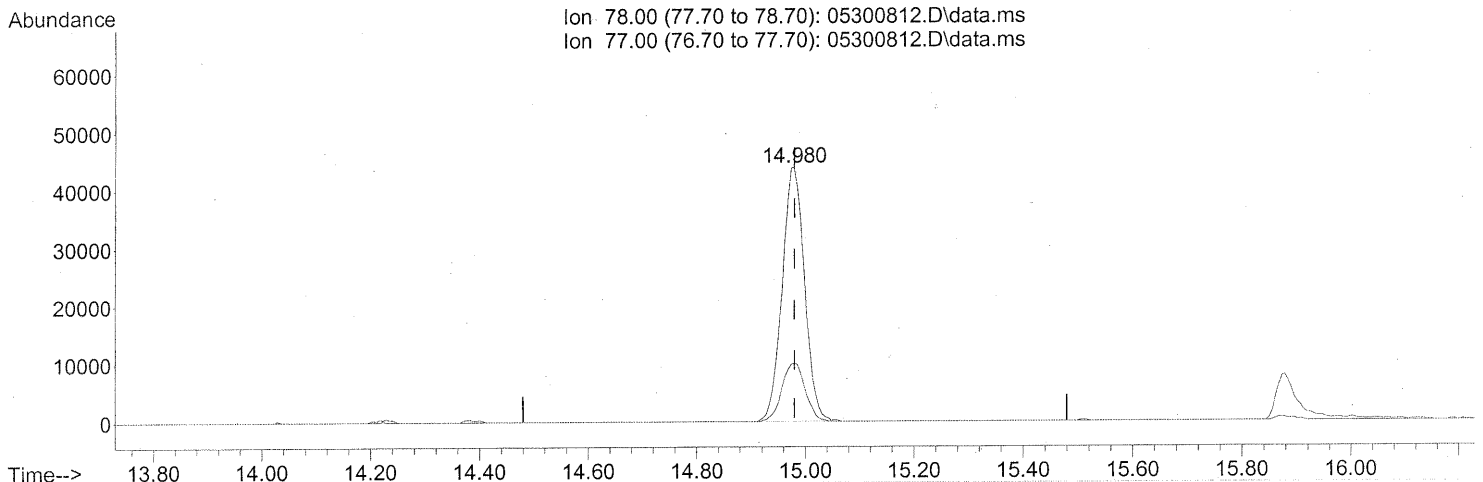
response 2222

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	67.01
61.00	50.50	56.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300812.D  
Acq On : 30 May 2008 4:33 pm  
Operator : WA  
Sample : P0801548-003 (1000ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(41) Benzene (T)

14.980min (-0.000) 1.91ng

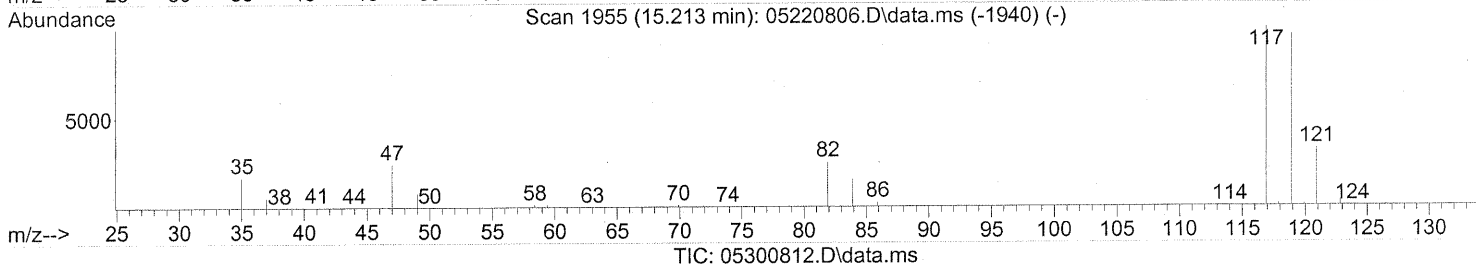
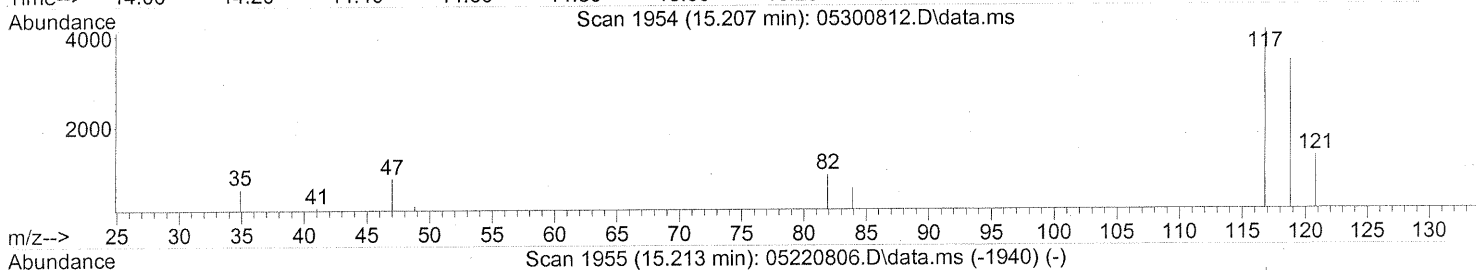
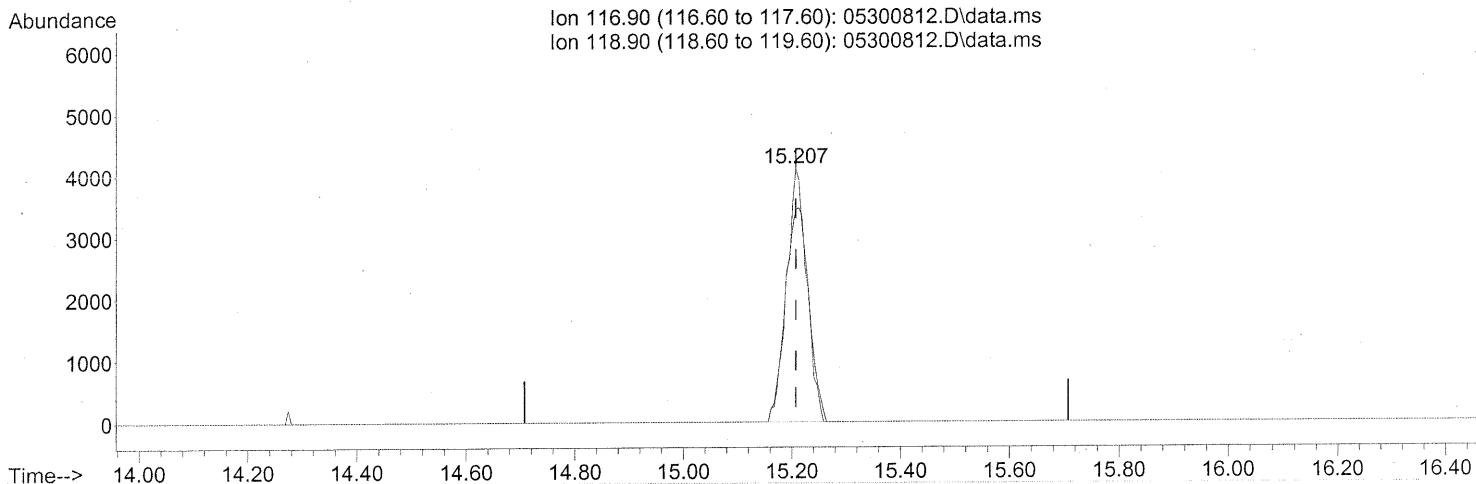
response 125348

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.43ng

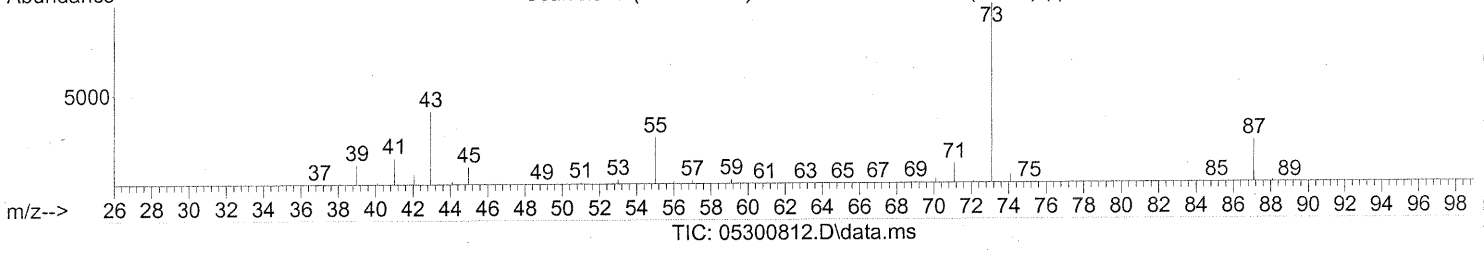
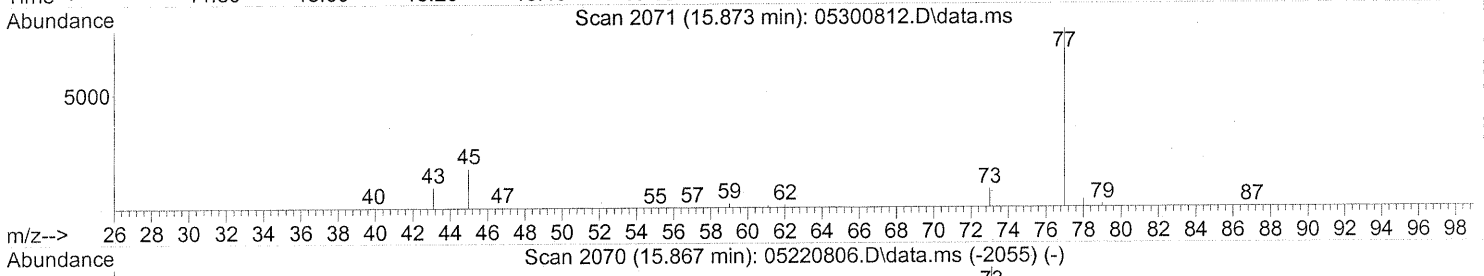
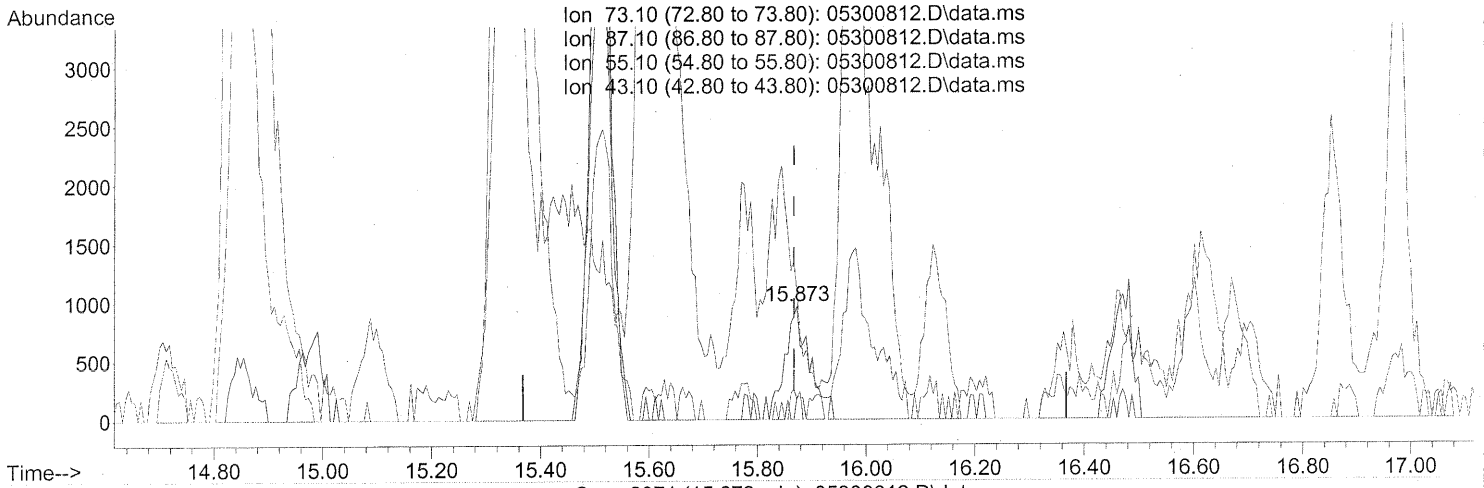
response 10934

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	92.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(44) tert-Amyl Methyl Ether (T)

15.873min (+0.006) 0.07ng

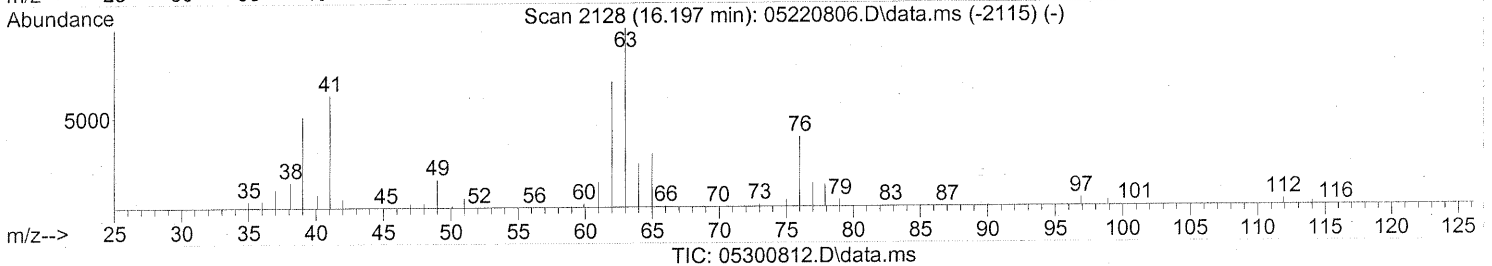
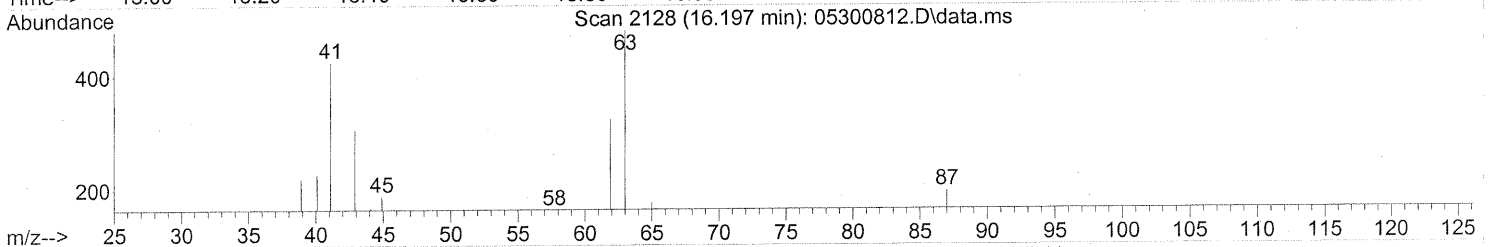
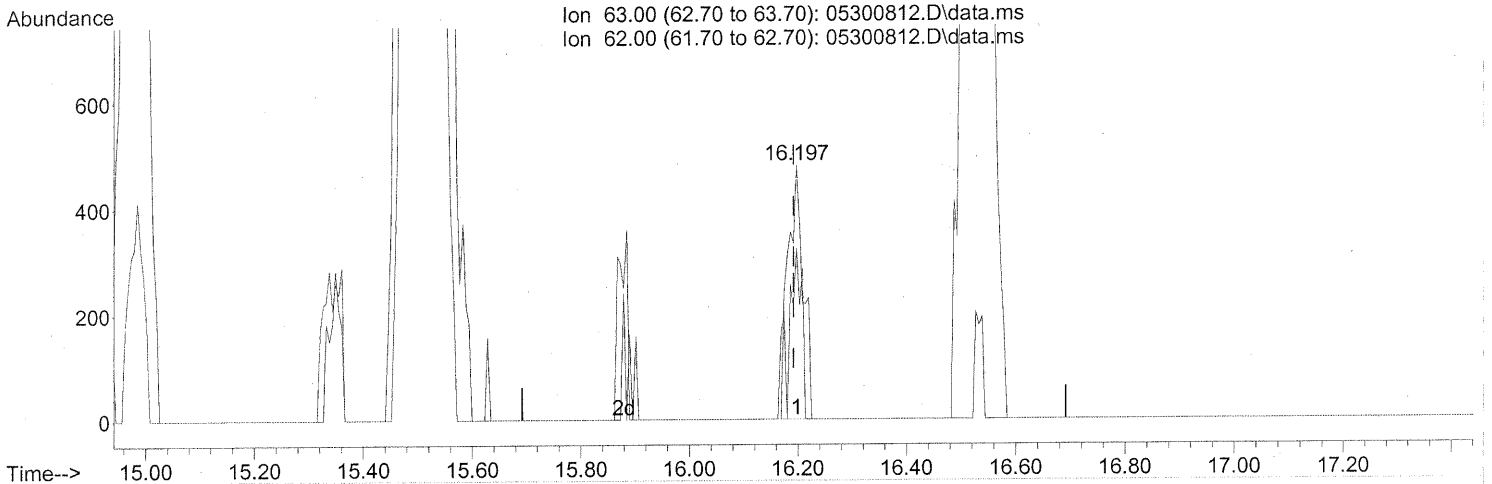
response 3095

Ion	Exp%	Act%
73.10	100	100
87.10	22.70	6.14
55.10	33.30	9.79#
43.10	38.30	0.00#

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.05ng

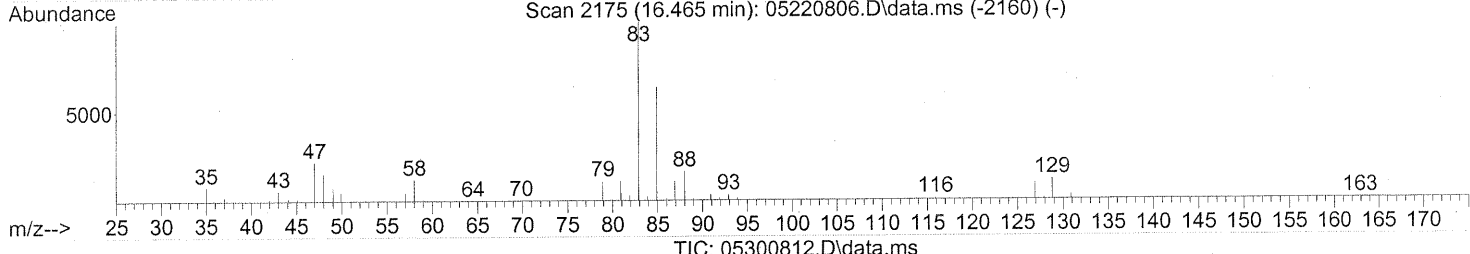
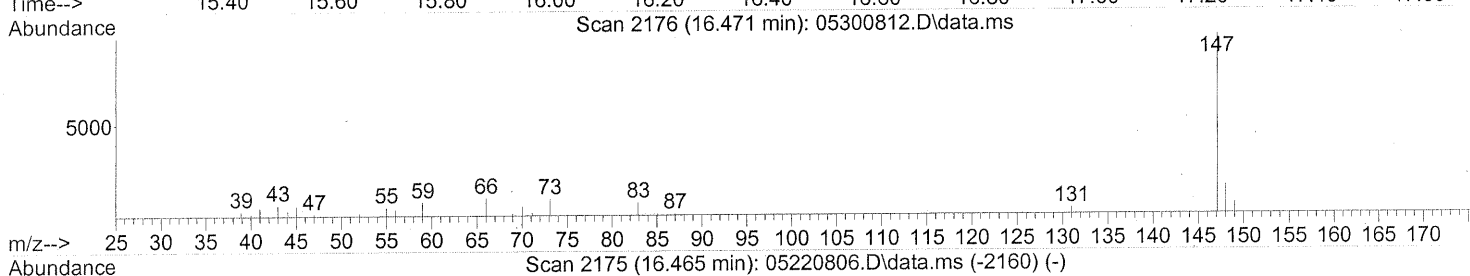
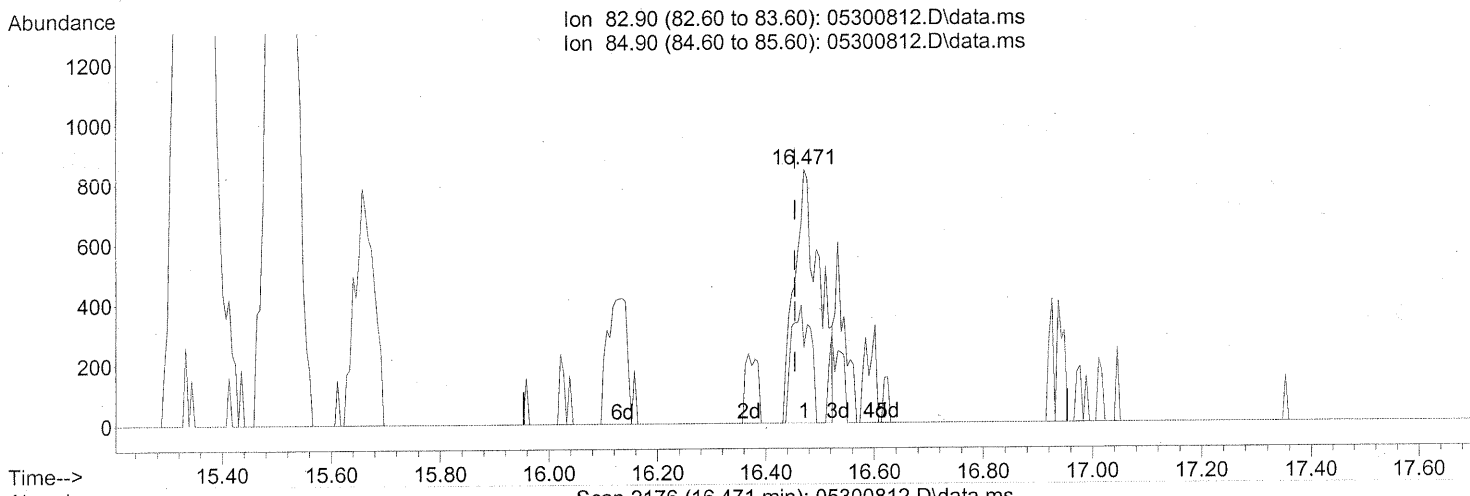
response 939

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	46.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.471min (+0.017) 0.12ng

response 2688

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	34.04#
0.00	0.00	0.00
0.00	0.00	0.00

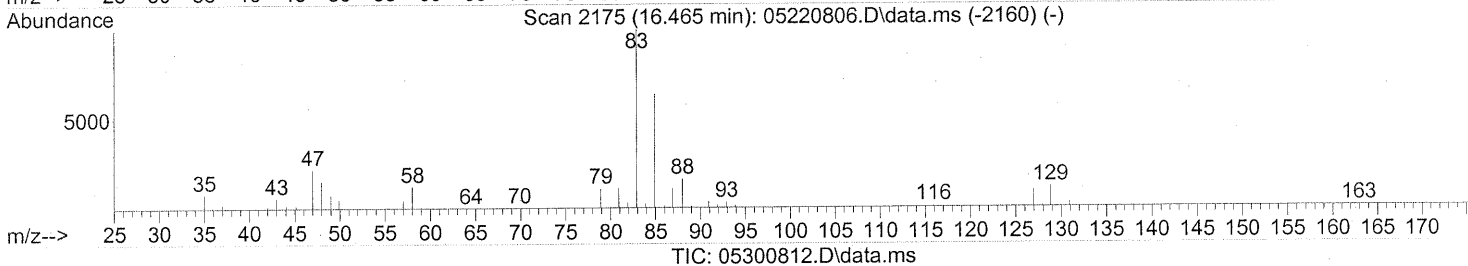
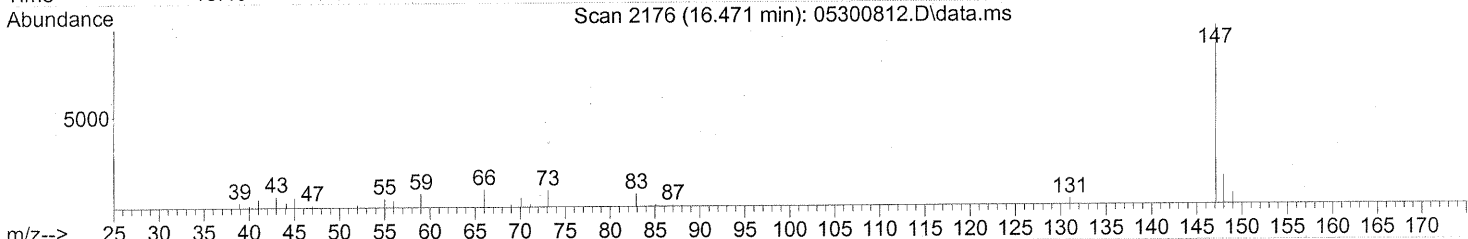
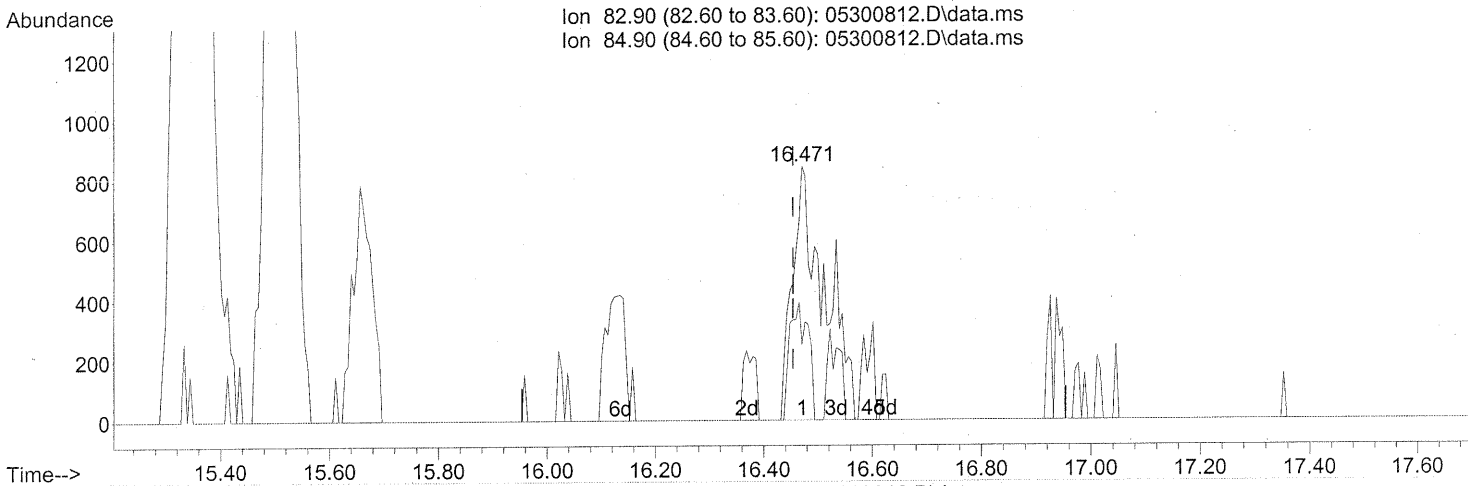
SPLIT PEAK



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.471min (+0.017) 0.16ng m

response 3441

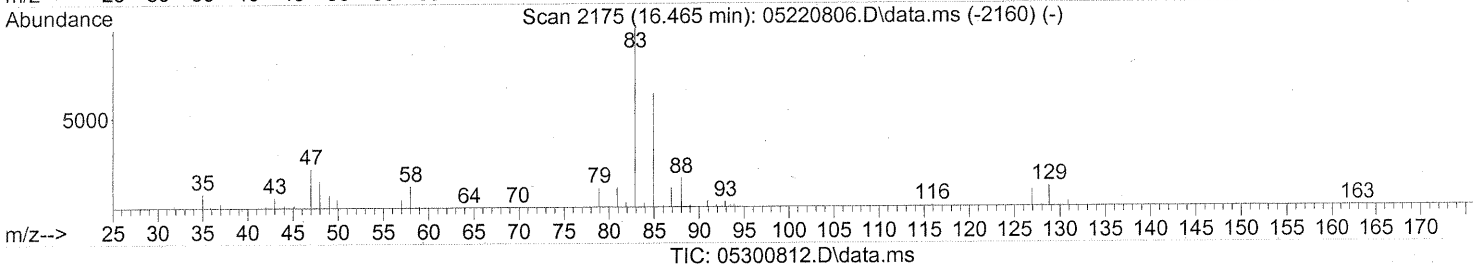
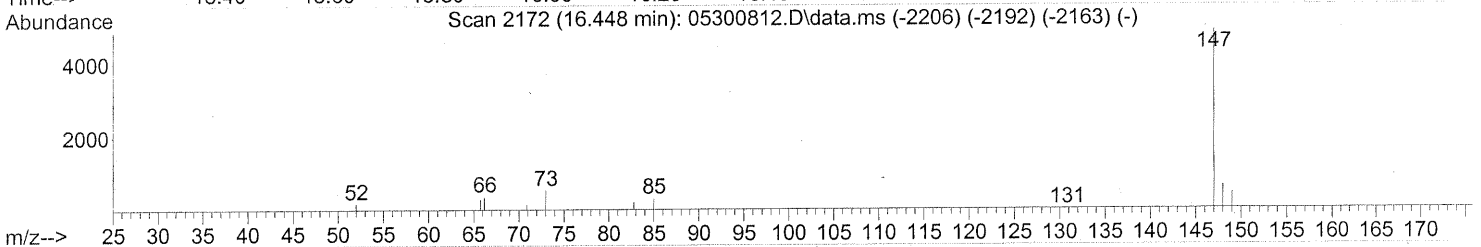
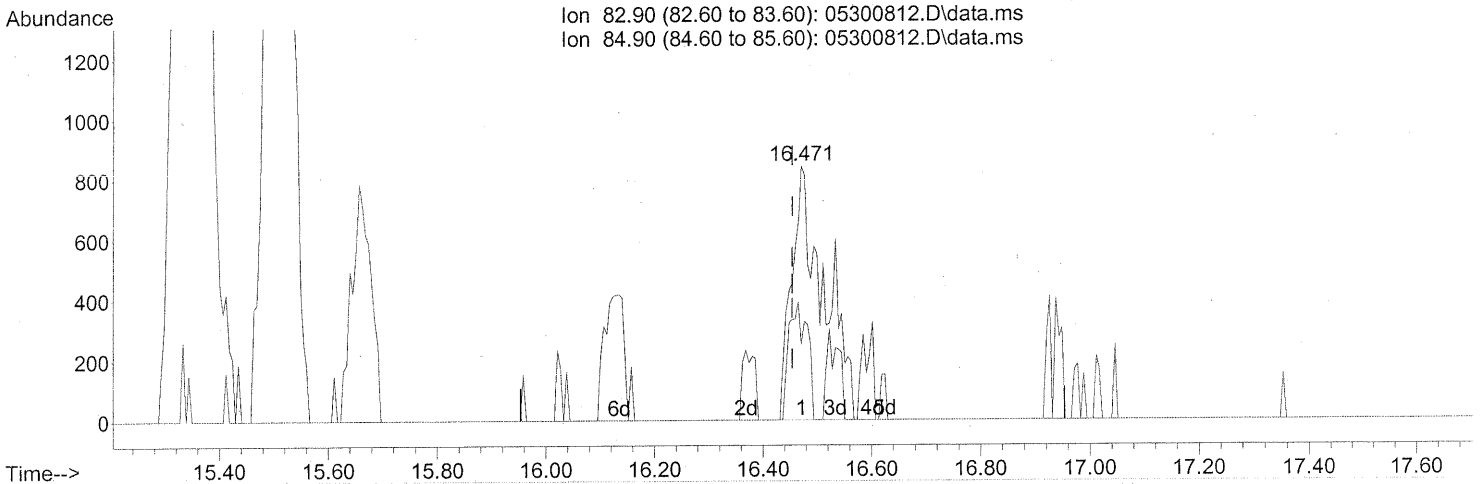
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	26.59#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK,  
 BEFORE SUBTRACTION  
 6/4/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 30 17:02:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.471min (+0.017) 0.16ng m

response 3441

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	26.59#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

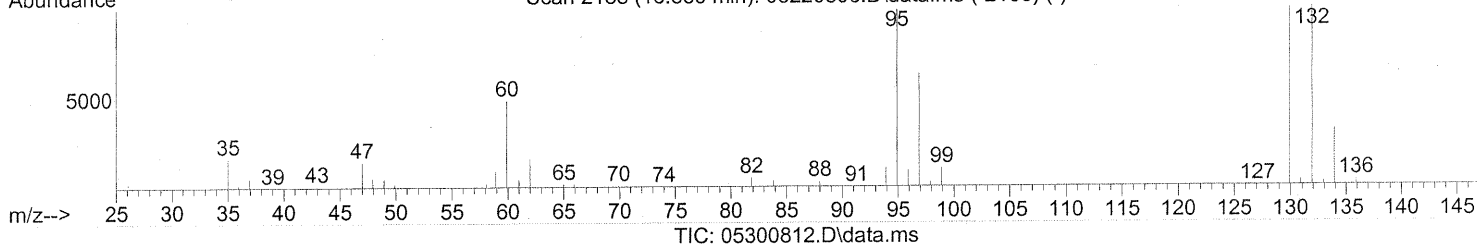
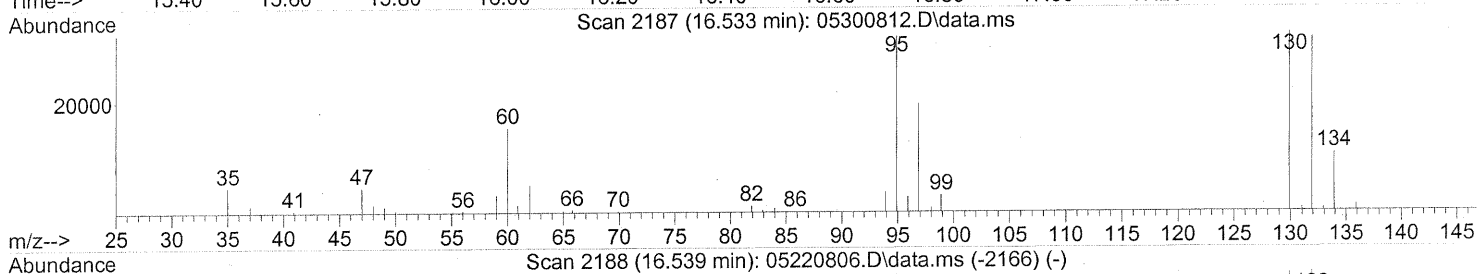
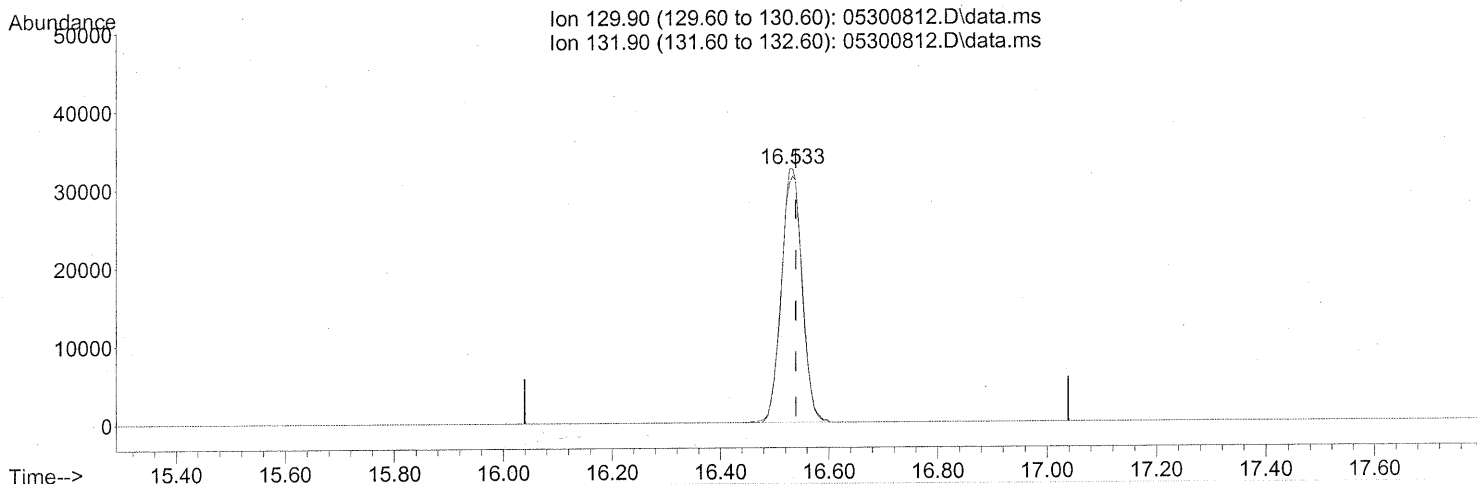
*Handwritten signature*

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 4.23ng

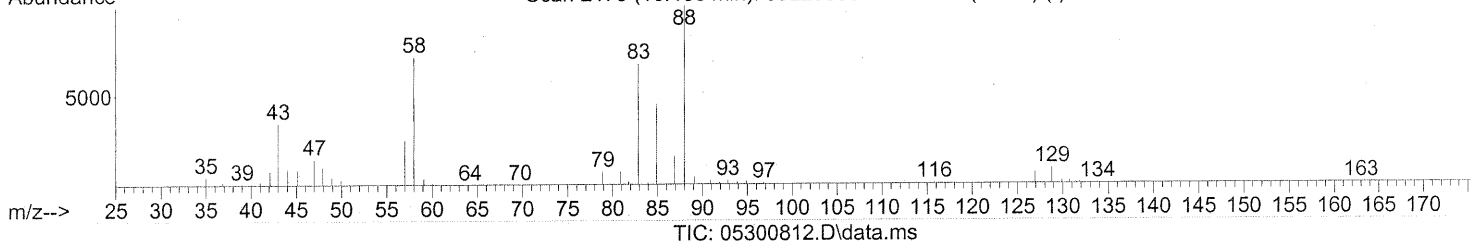
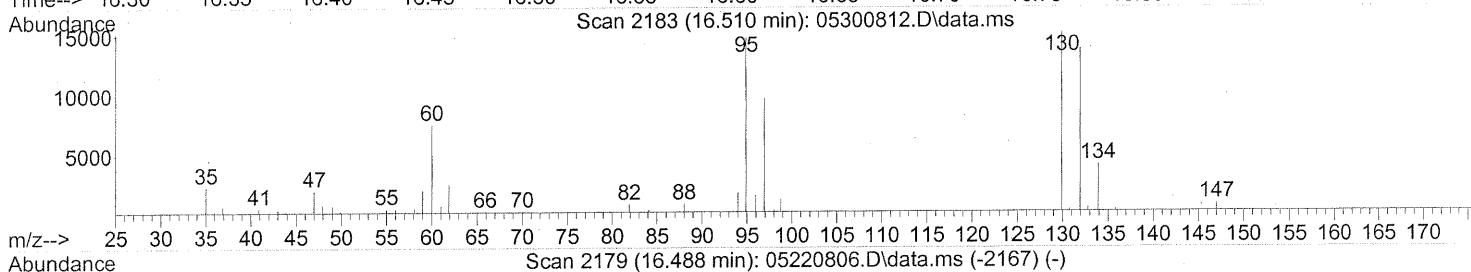
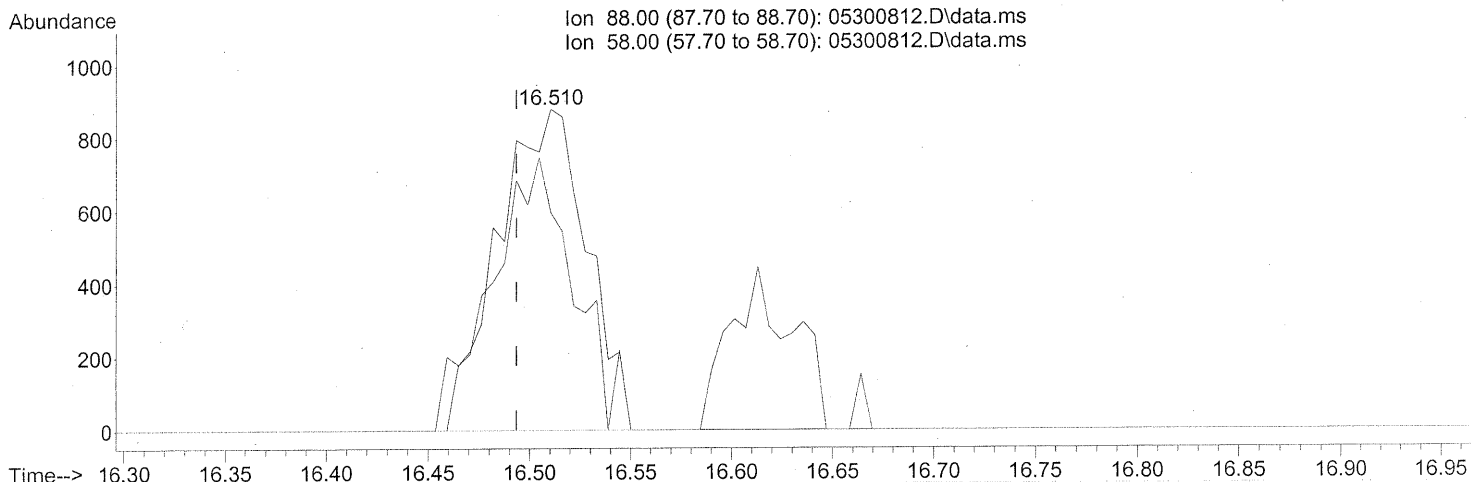
response 85204

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.510min (+0.017) 0.22ng  
 response 2678

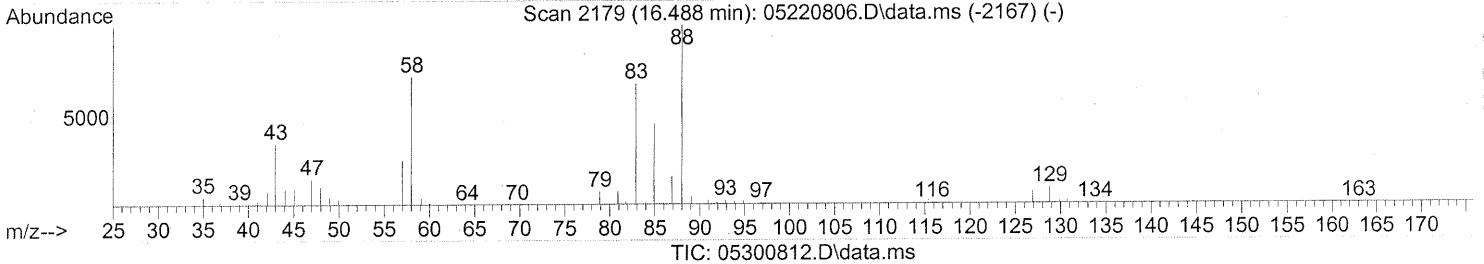
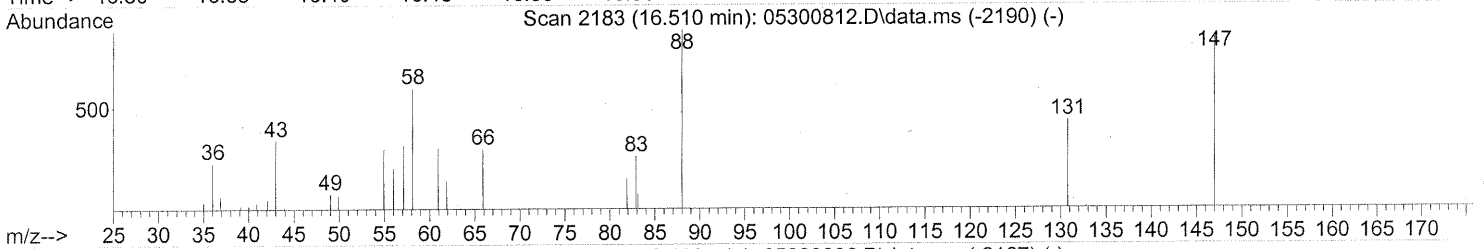
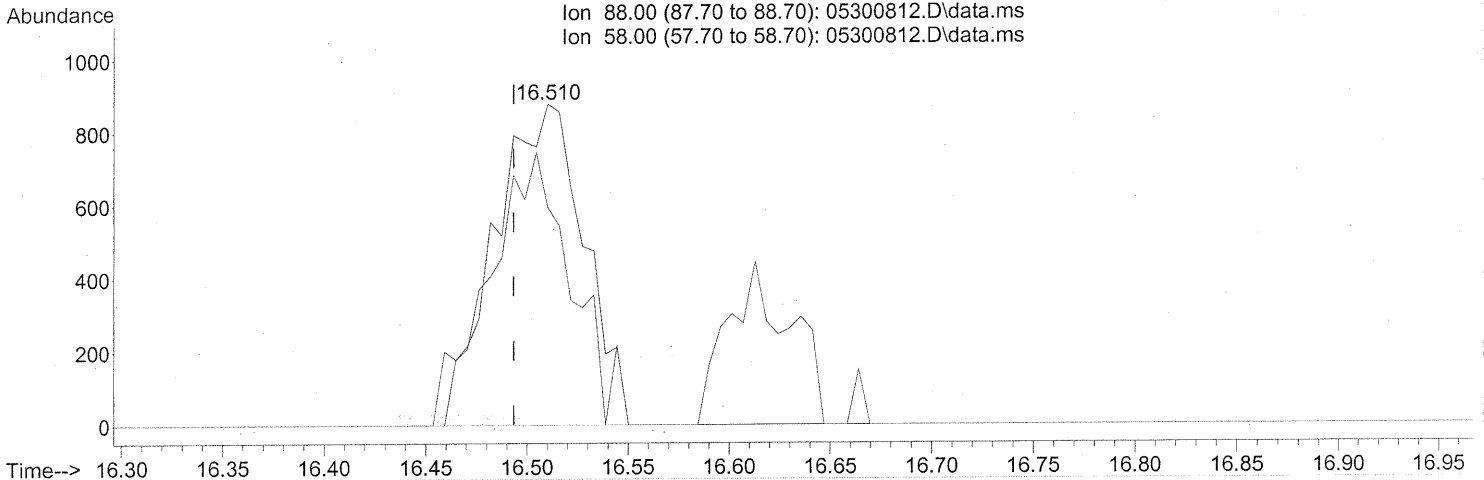
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	79.61
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.510min (+0.017) 0.22ng

response 2678

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	79.61
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

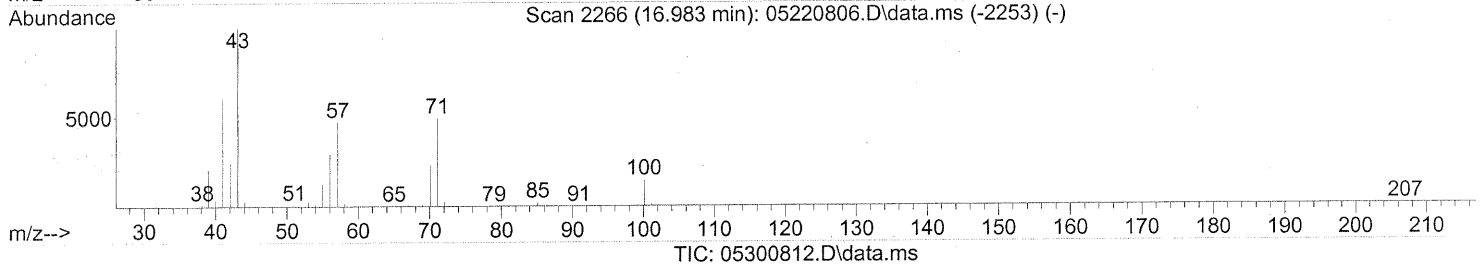
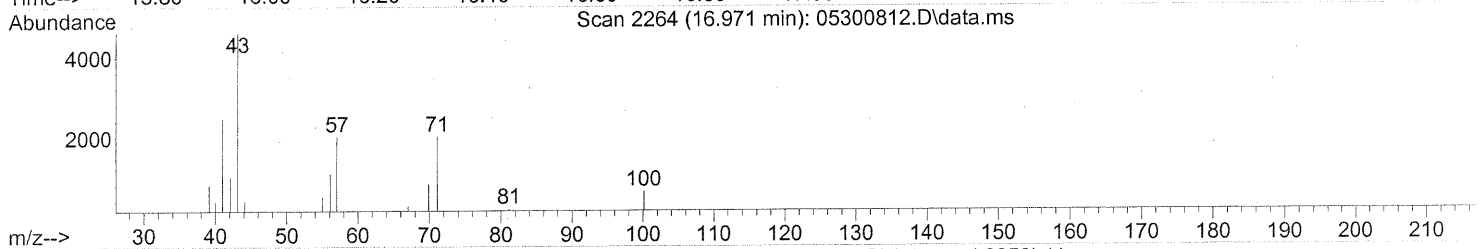
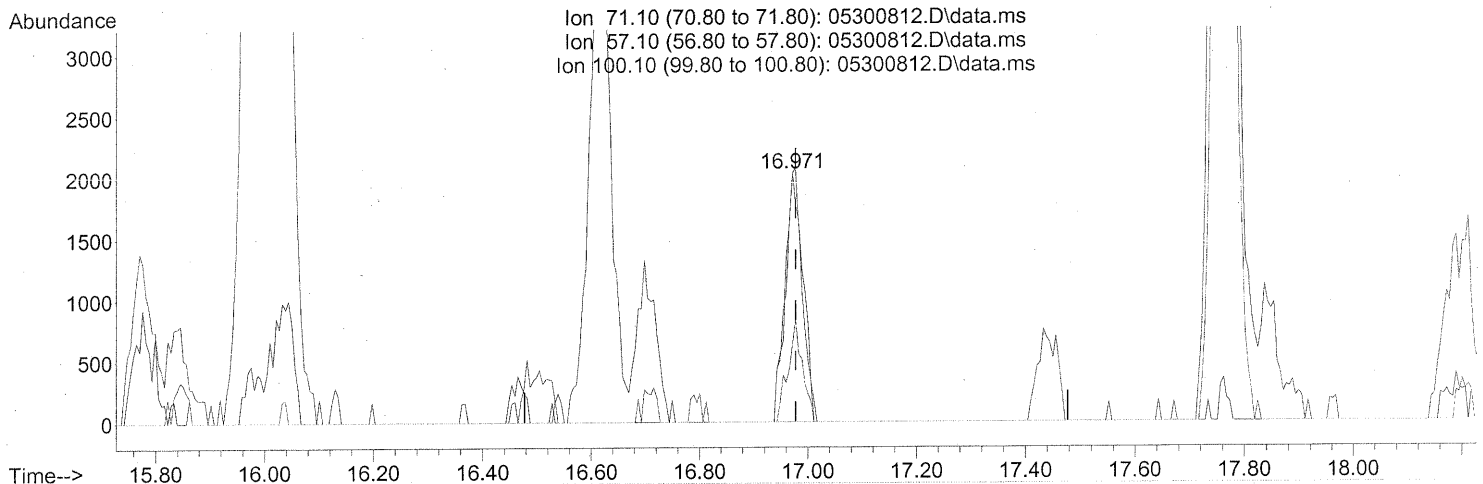
6/4/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.971min (-0.006) 0.27ng

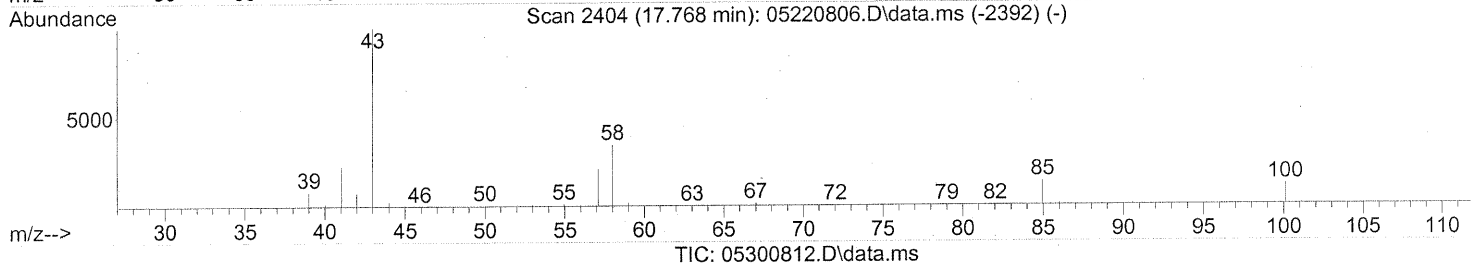
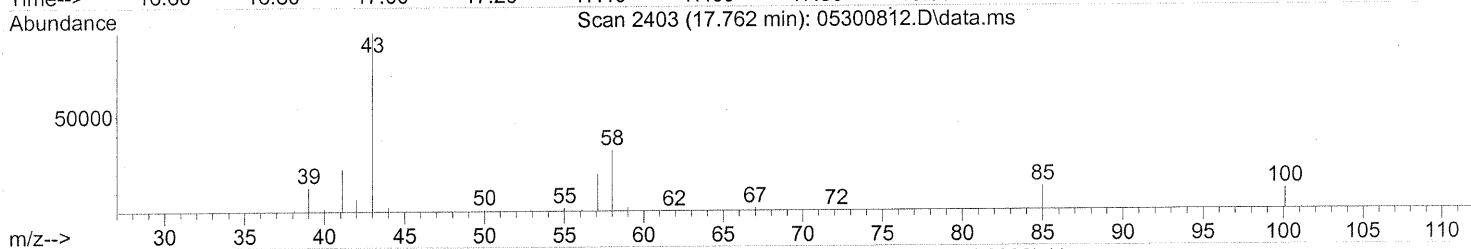
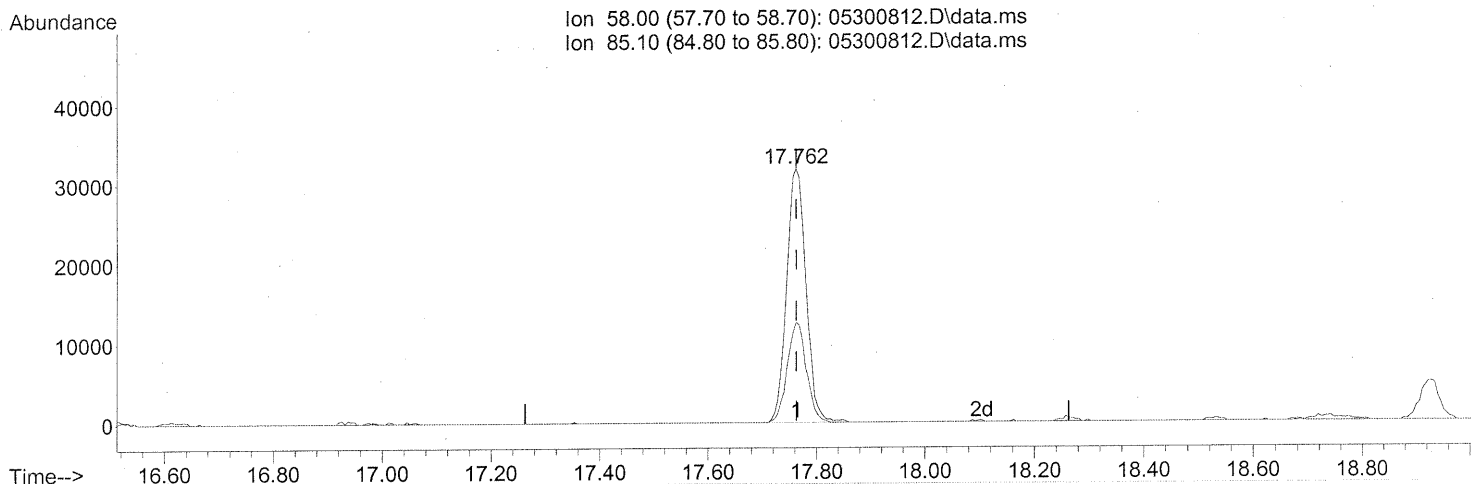
response 4623

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	96.97#
100.10	30.10	33.66
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300812.D  
Acq On : 30 May 2008 4:33 pm  
Operator : WA  
Sample : P0801548-003 (1000ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.762min (-0.000) 4.51ng

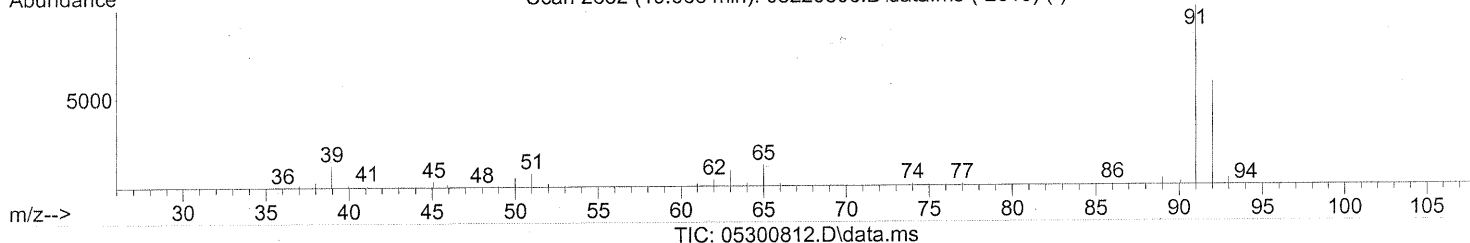
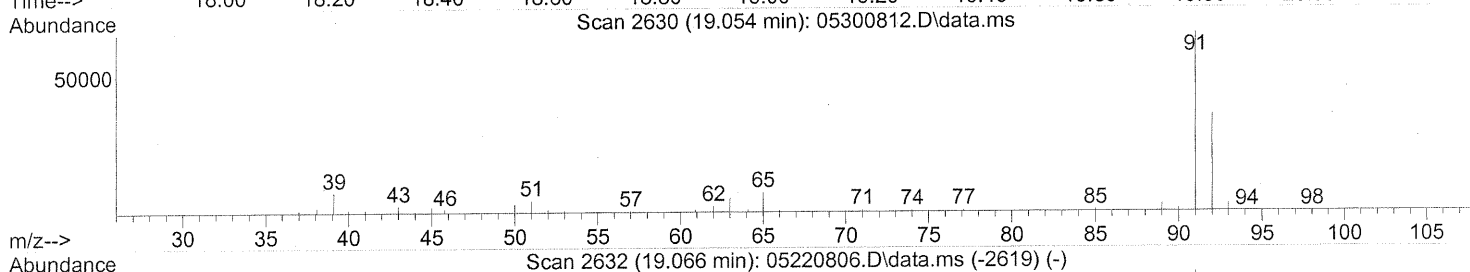
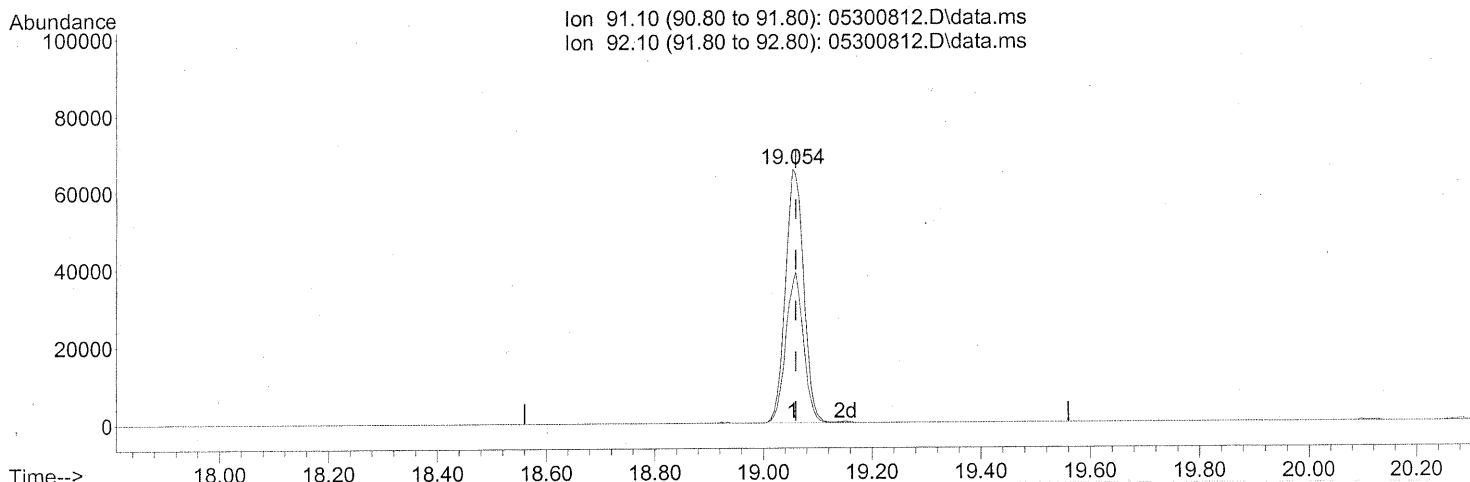
response 78675

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	38.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)  
 19.054min (-0.006) 2.09ng  
 response 152954

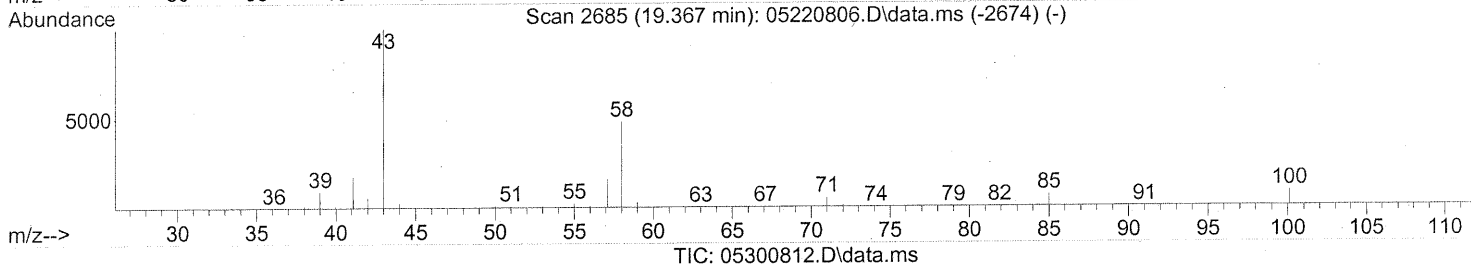
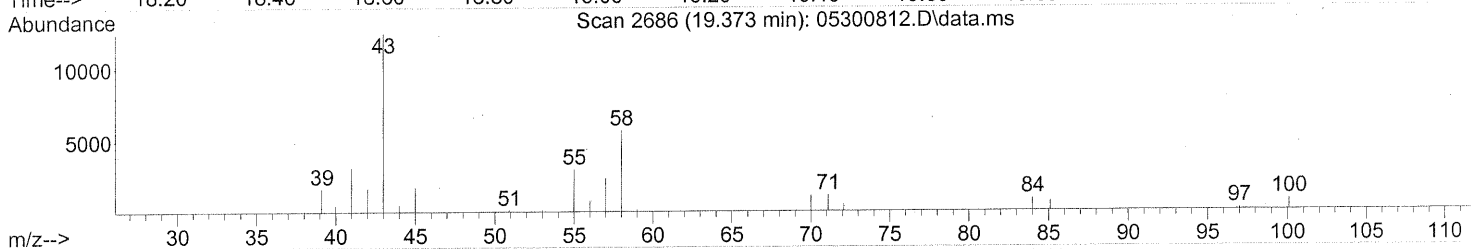
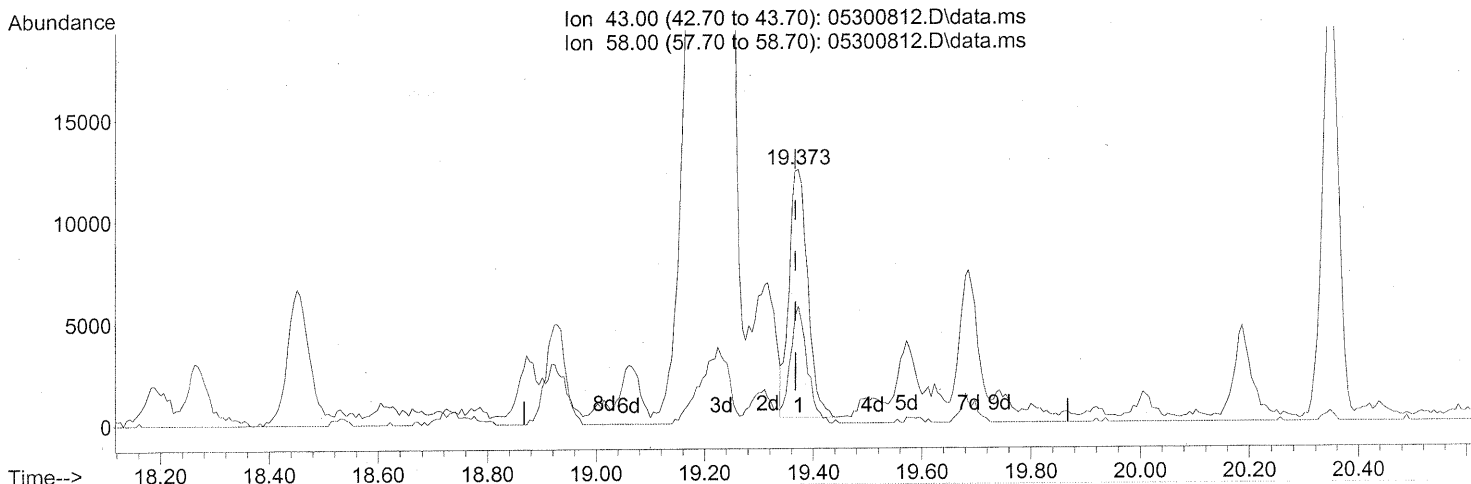
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.13
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



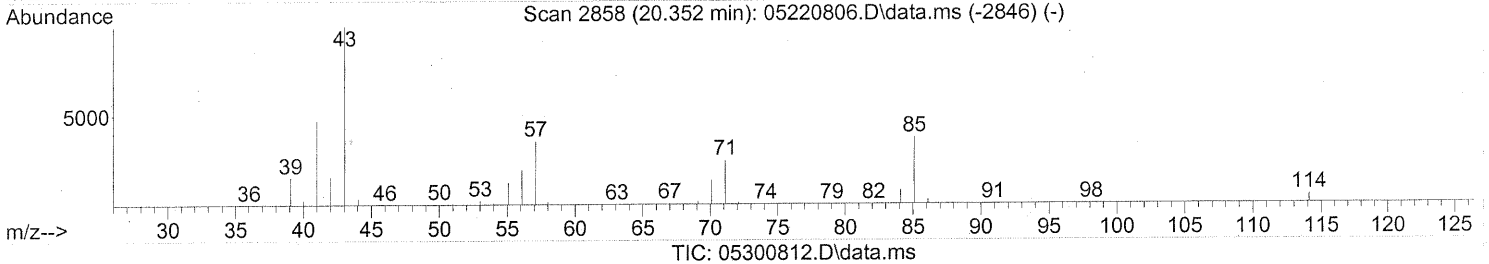
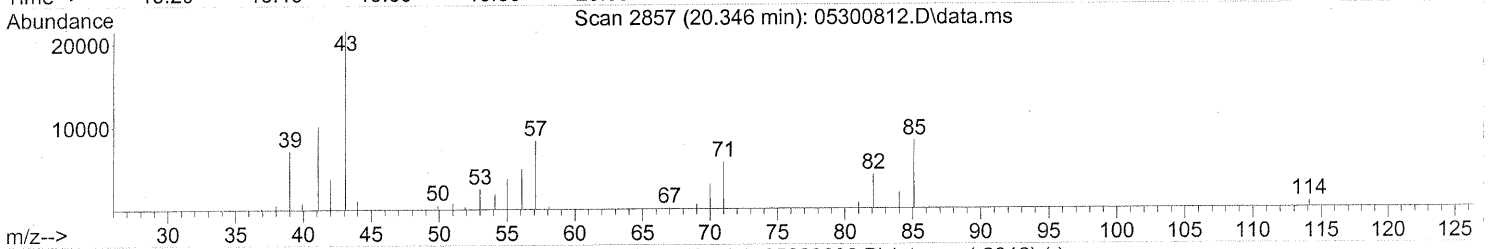
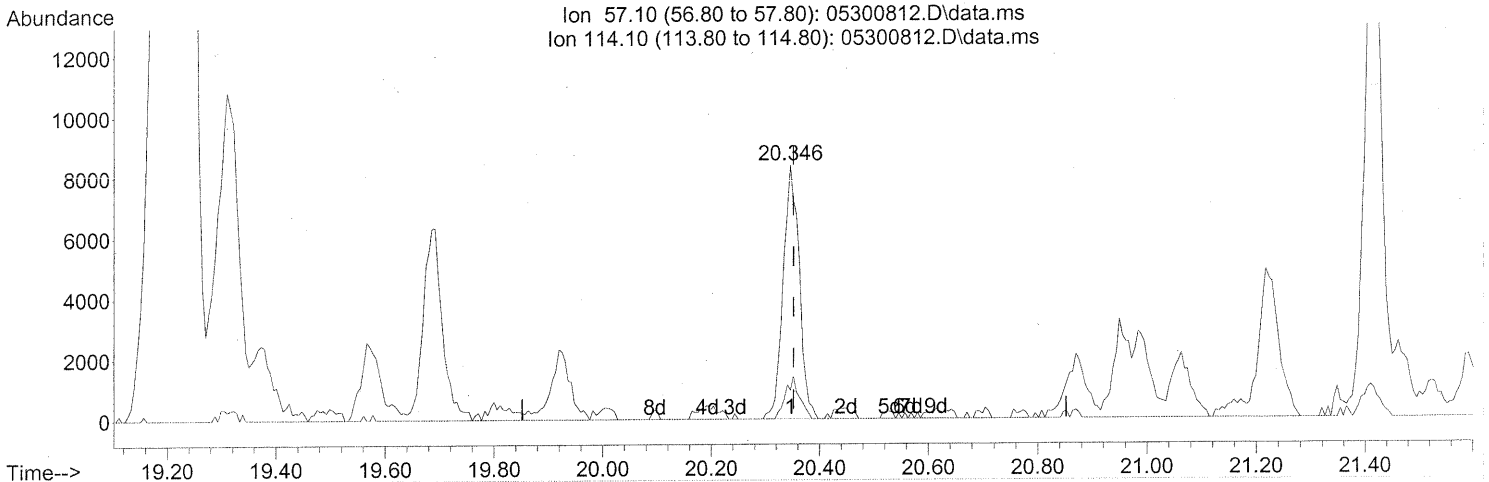
(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.58ng  
 response 29065

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	43.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.346min (-0.006) 1.07ng

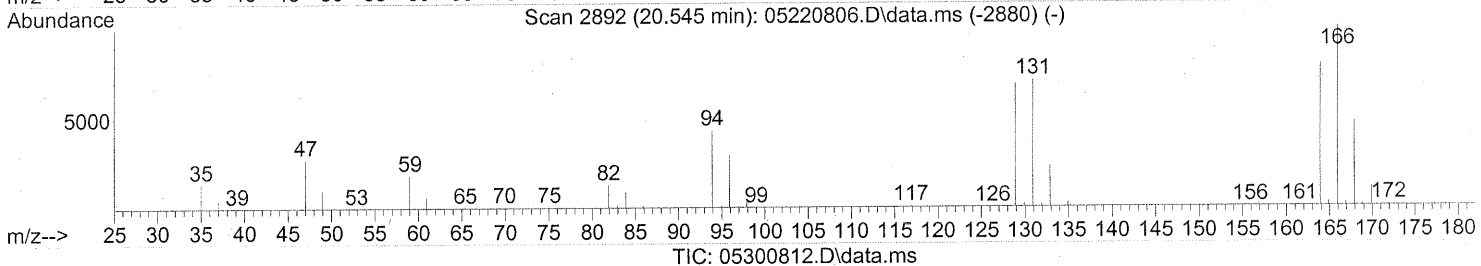
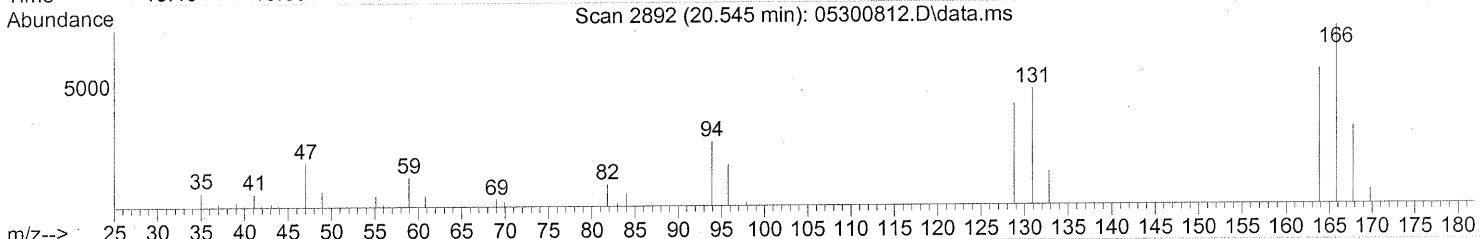
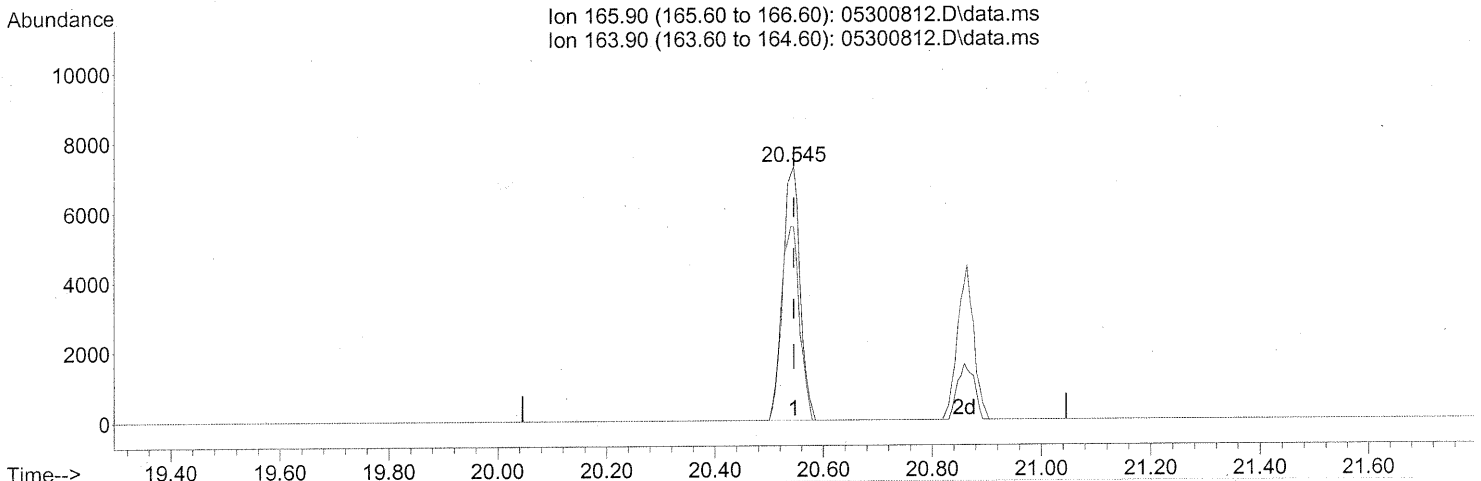
response 17290

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.545min (-0.000) 0.75ng

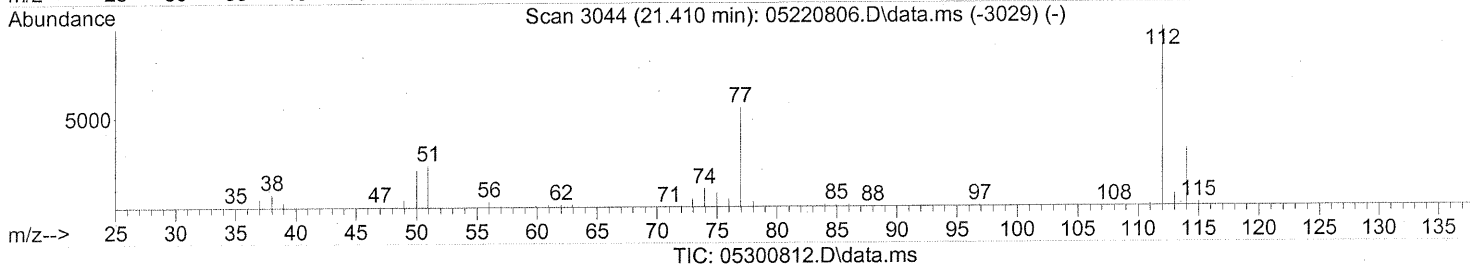
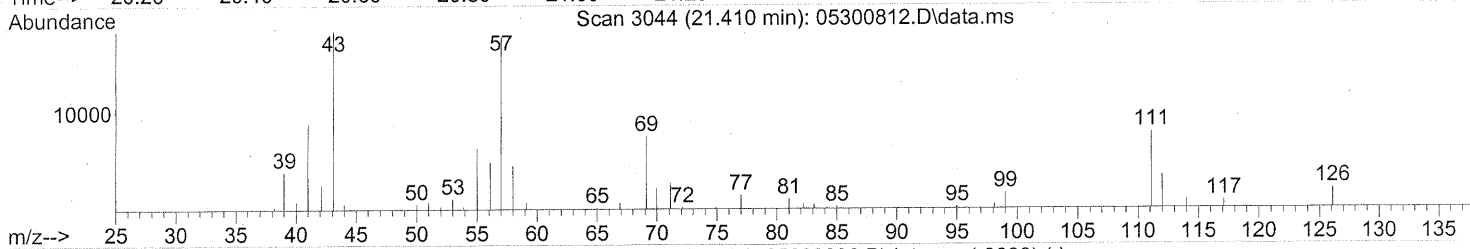
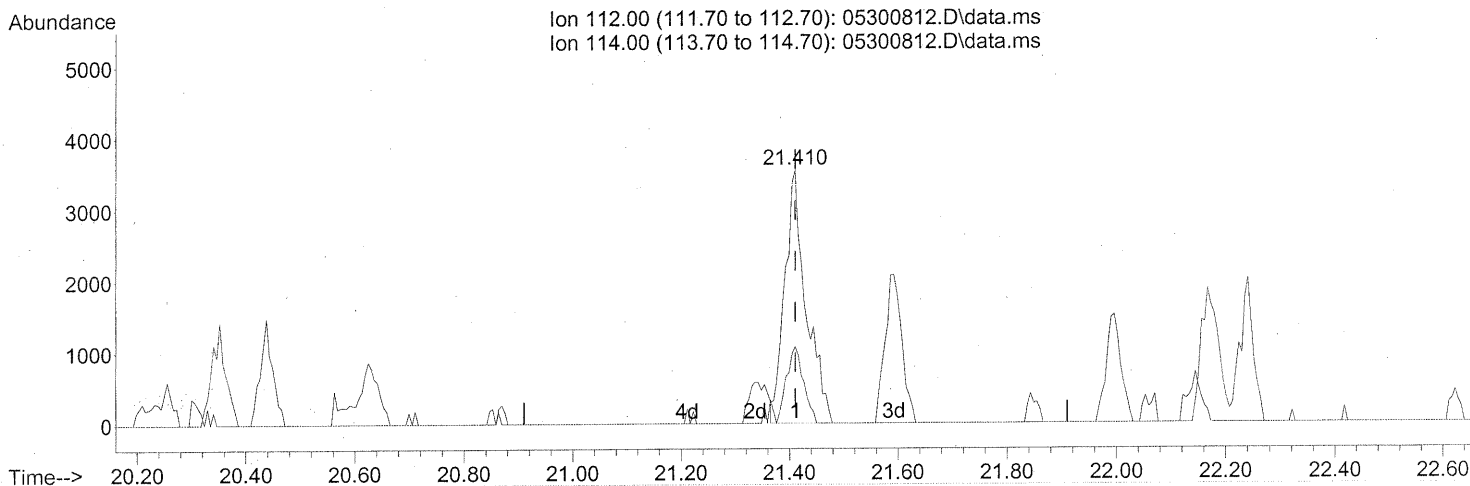
response 16214

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



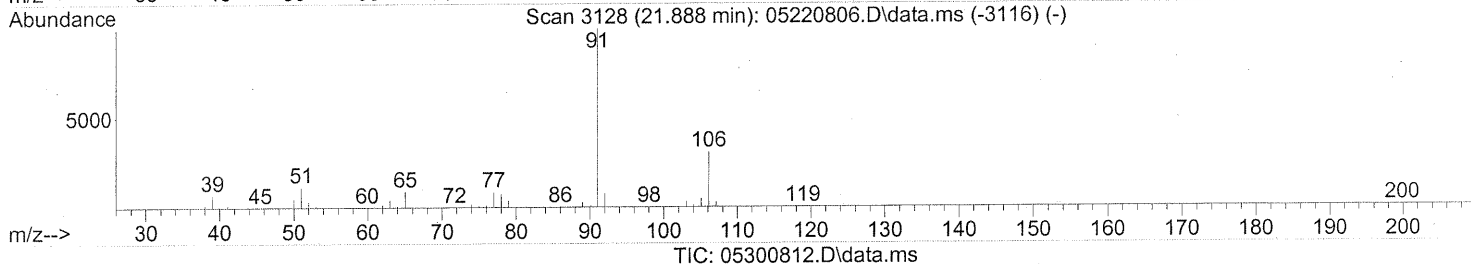
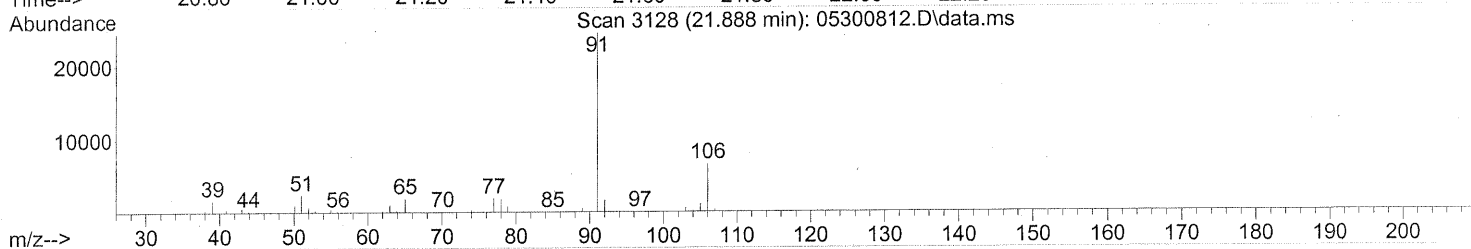
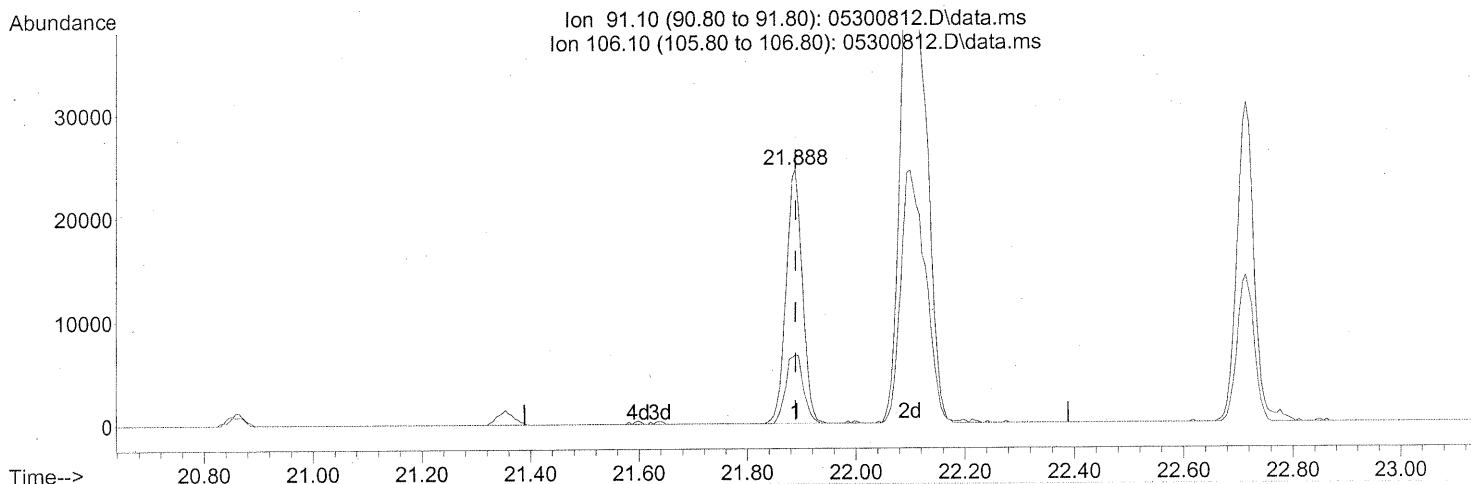
(65) Chlorobenzene (T)  
 21.410min (-0.000) 0.20ng  
 response 9693

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	24.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



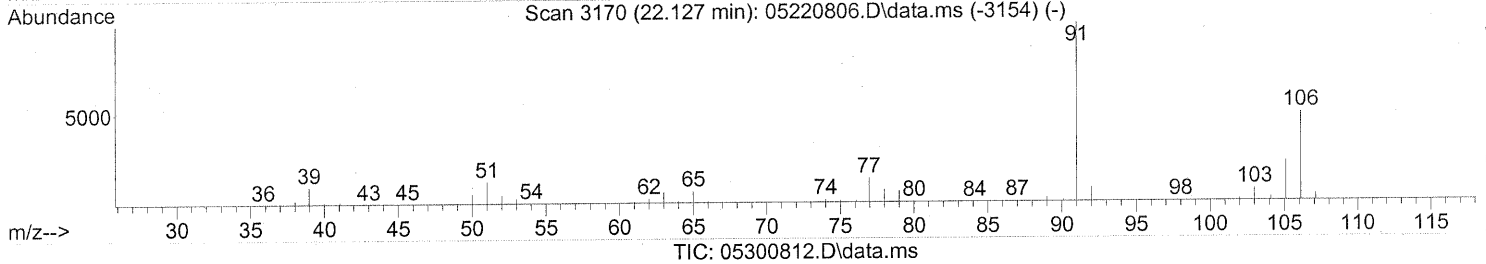
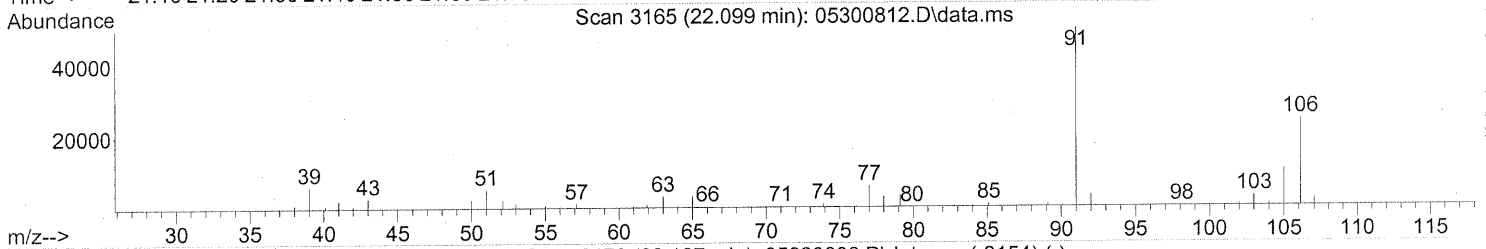
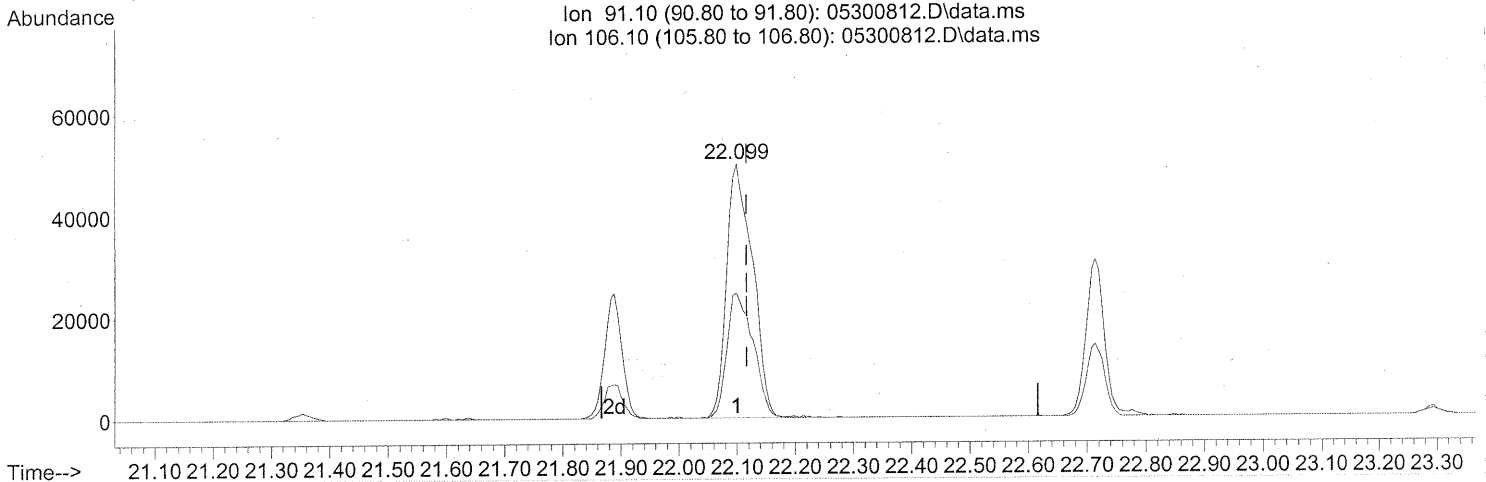
(66) Ethylbenzene (T)  
 21.888min (-0.000) 0.61ng  
 response 51172

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	29.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 2.75ng

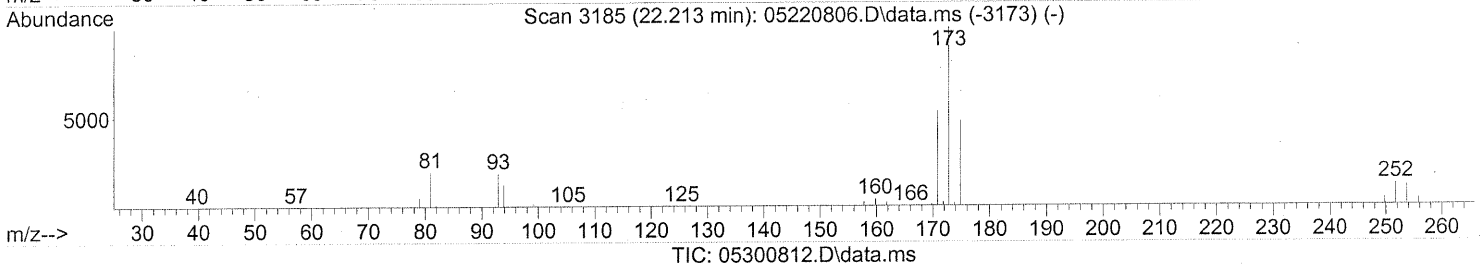
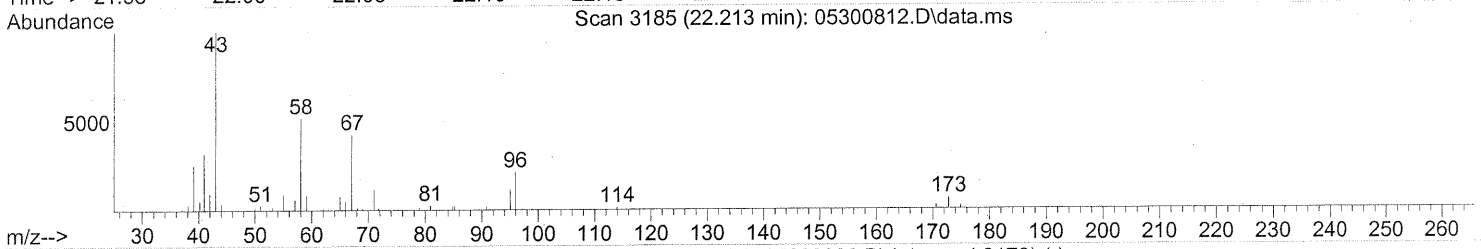
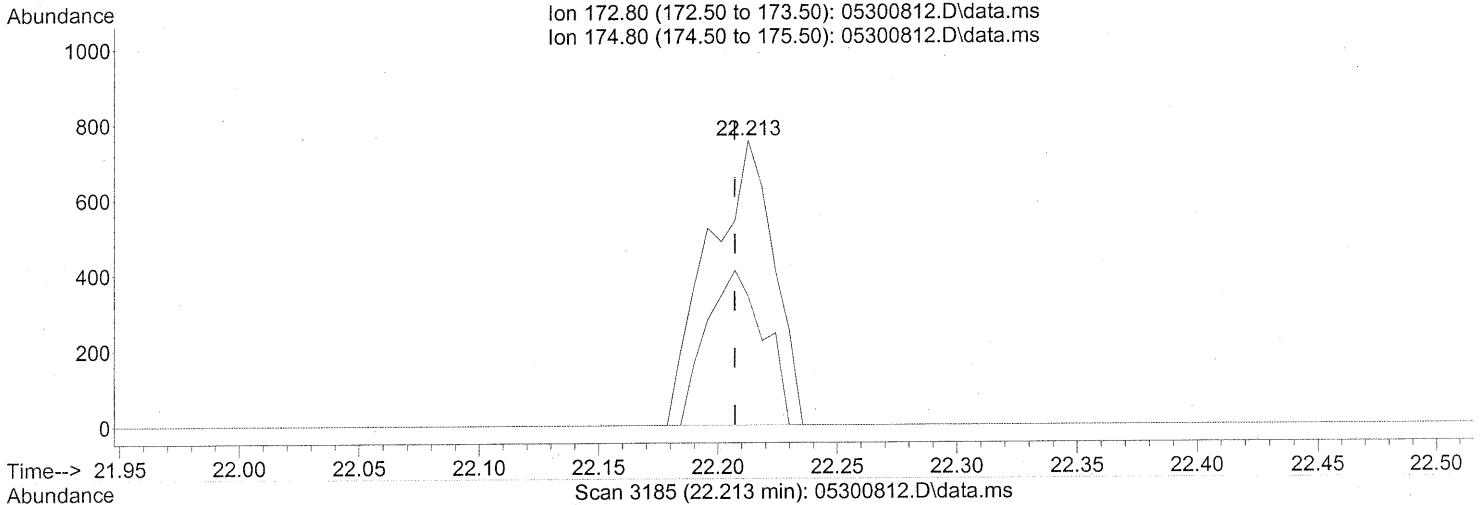
response 154413

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(68) Bromoform (T)  
 22.213min (+0.006) 0.10ng

*BEFORE SUBTRACTION*

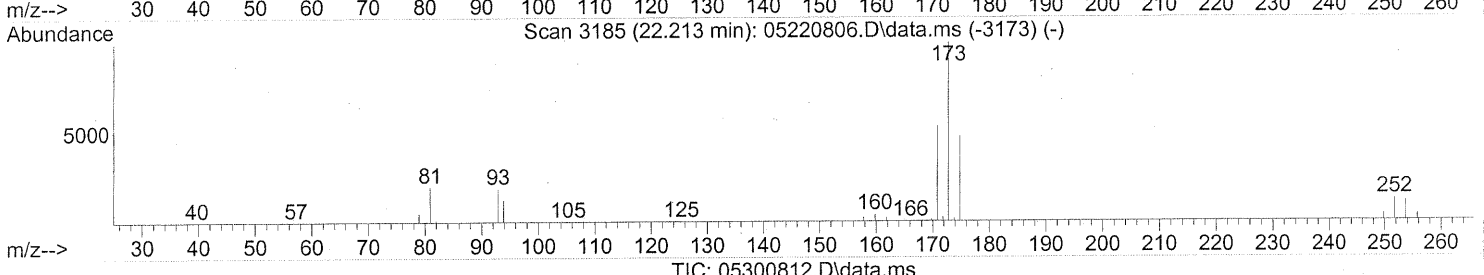
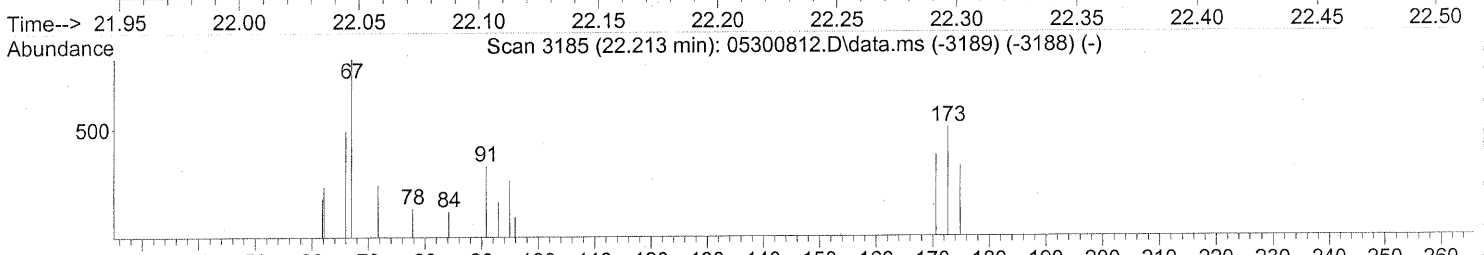
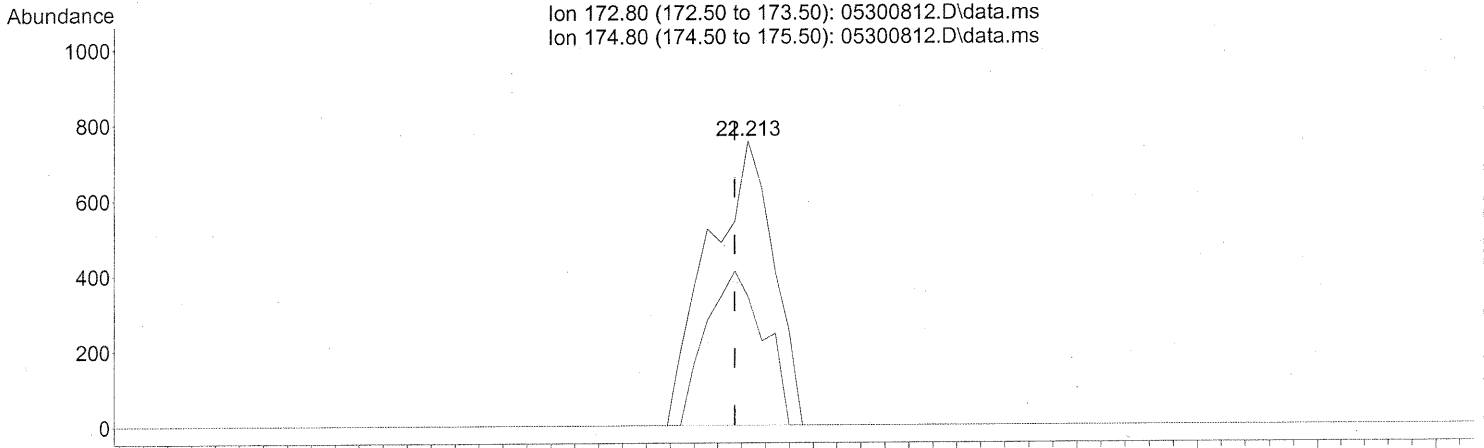
response 1420

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	48.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(68) Bromoform (T)  
 22.213min (+0.006) 0.10ng  
 response 1420

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	48.17
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

6/6/08

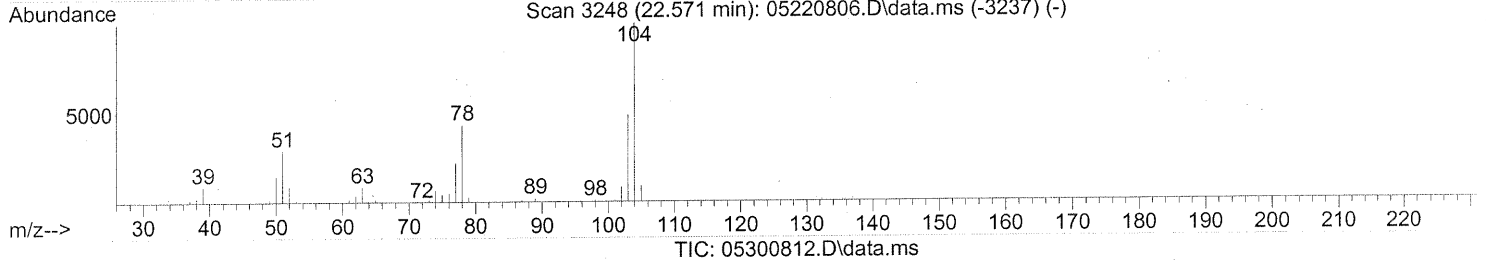
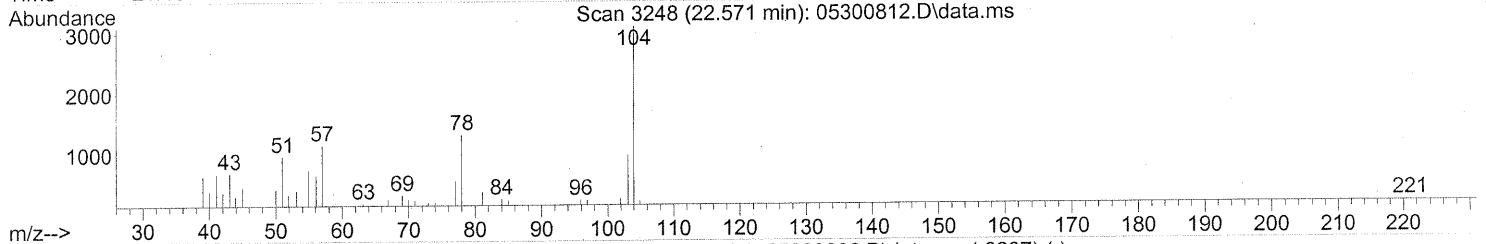
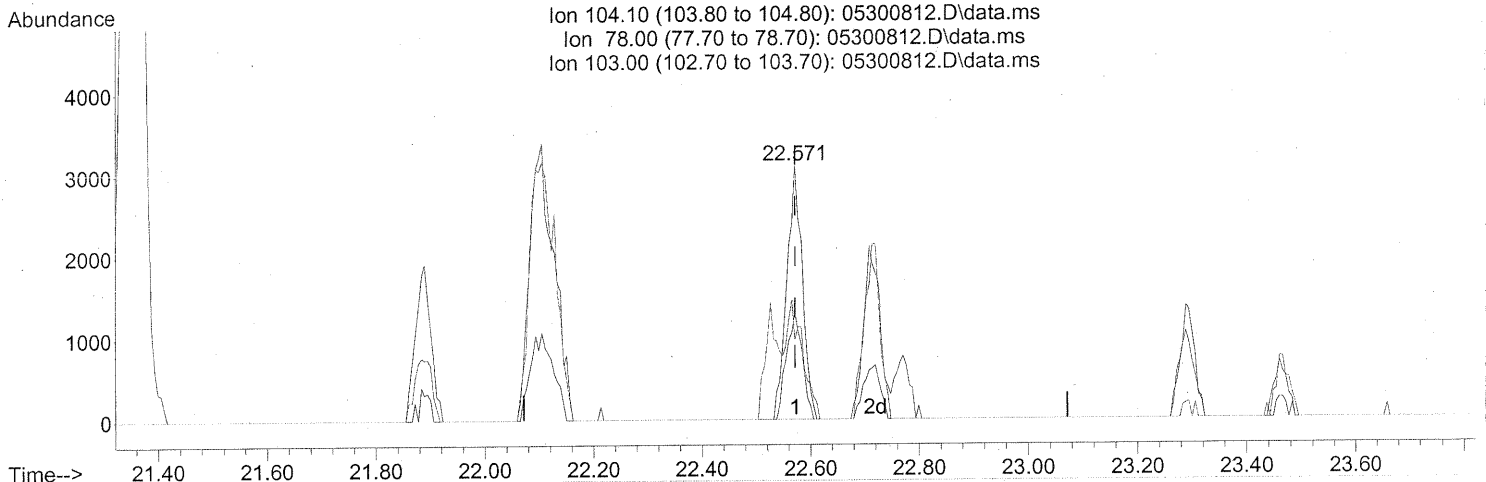
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



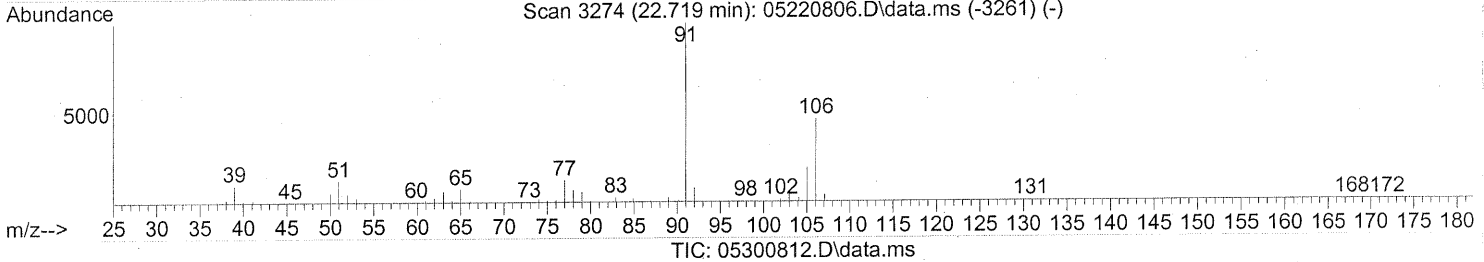
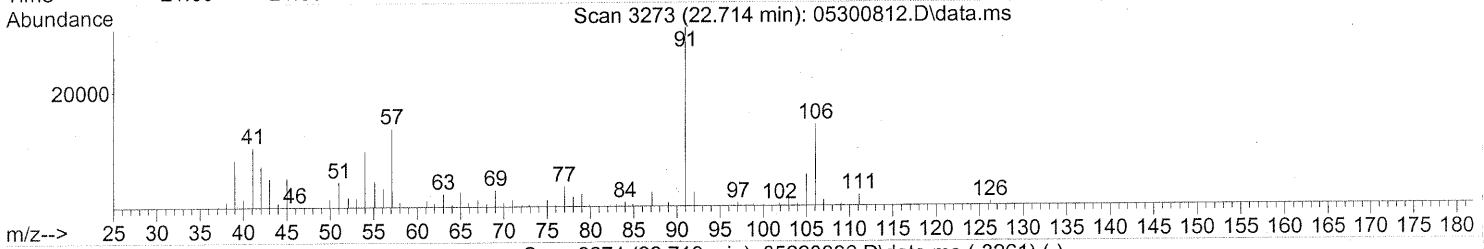
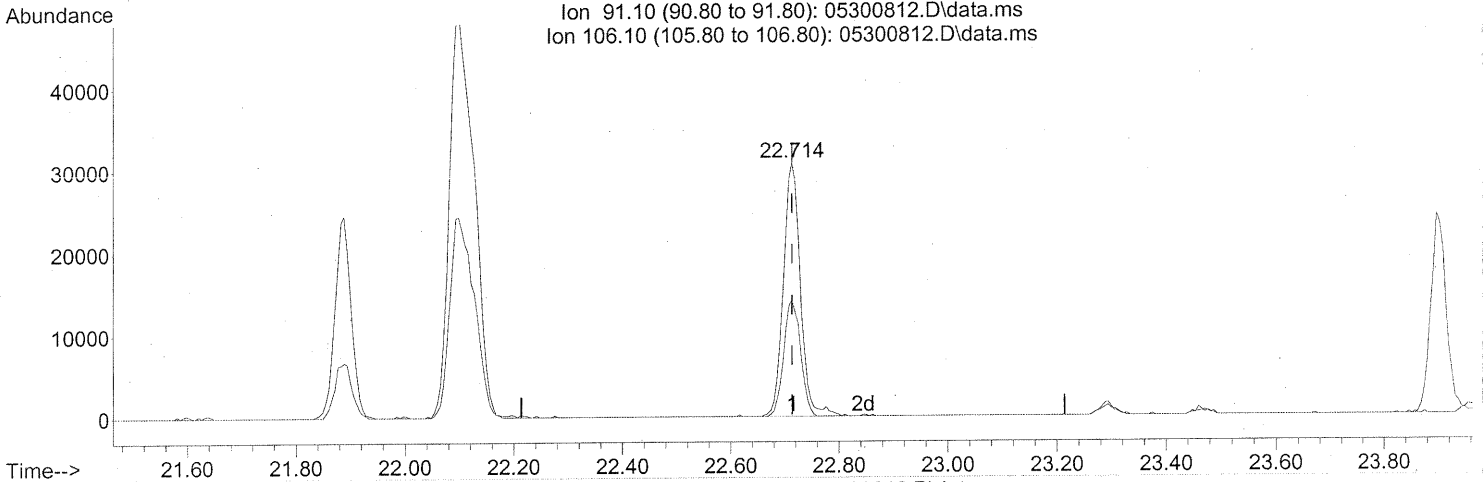
(69) Styrene (T)  
 22.571min (-0.000) 0.12ng  
 response 6120

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	43.32
103.00	47.10	49.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 1.11ng

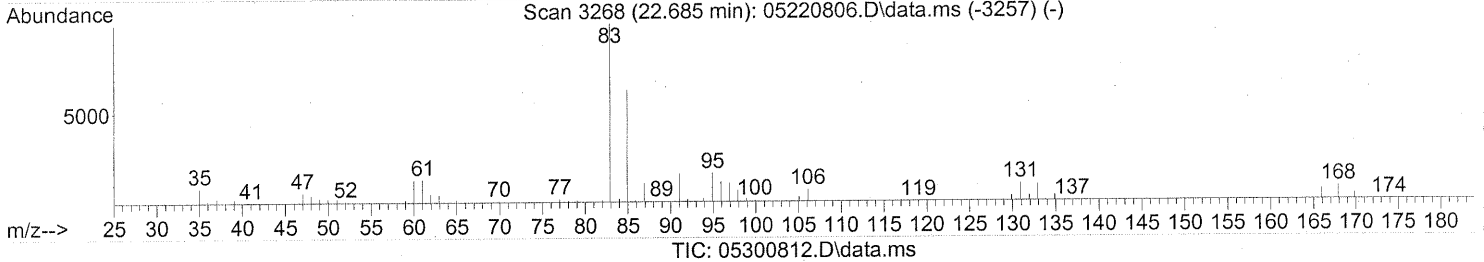
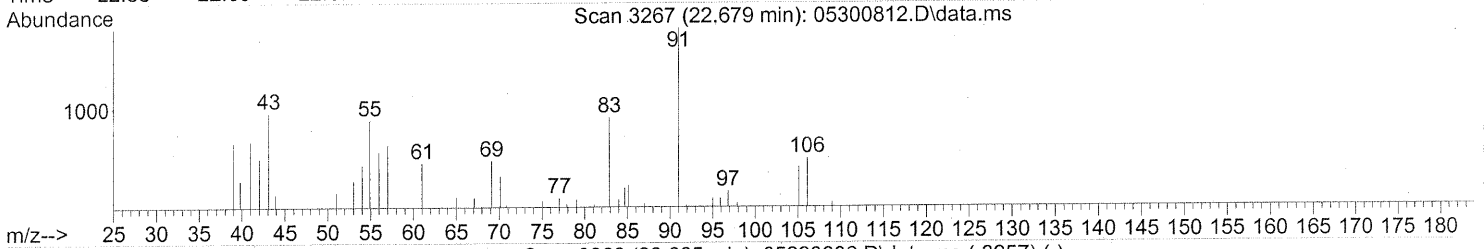
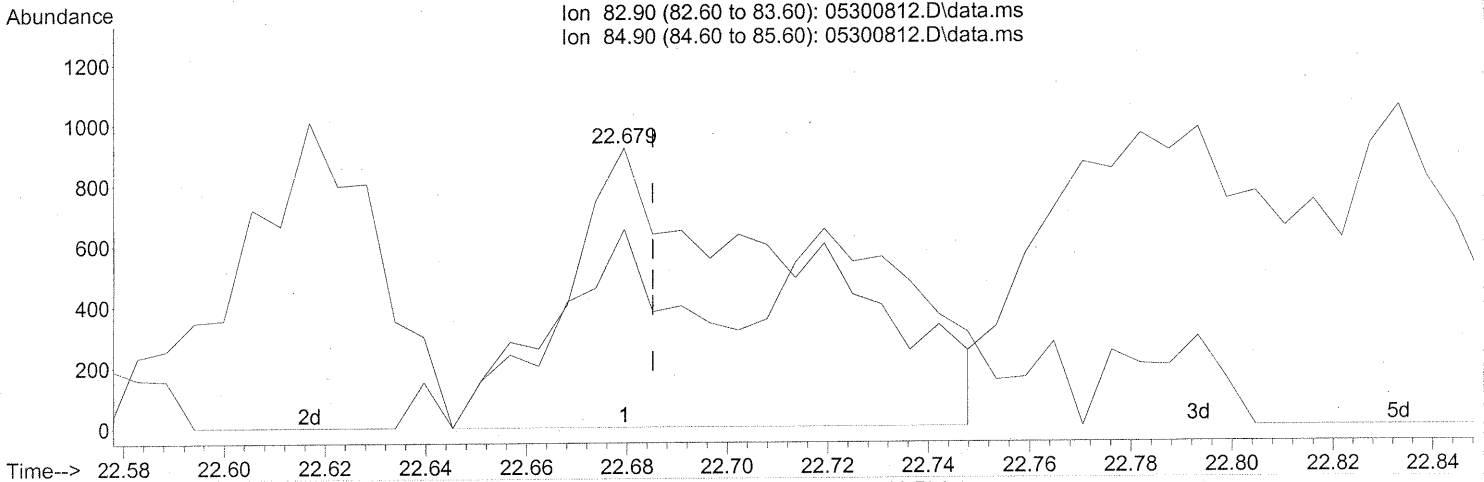
response 67415

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.679min (-0.006) 0.12ng

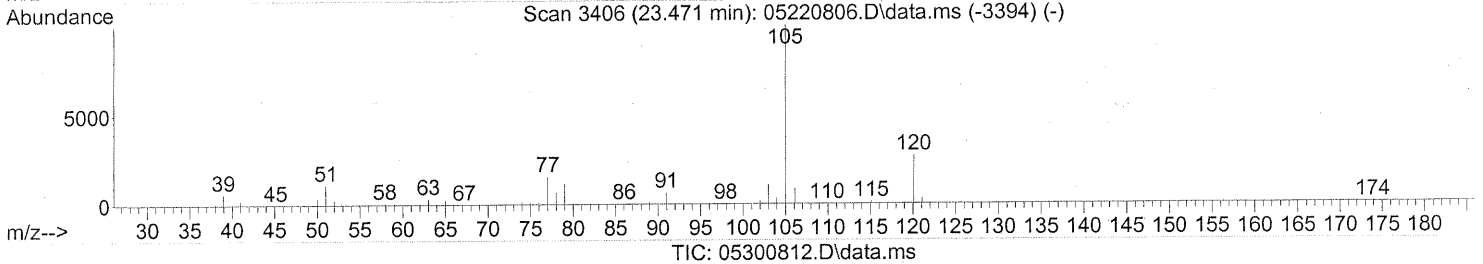
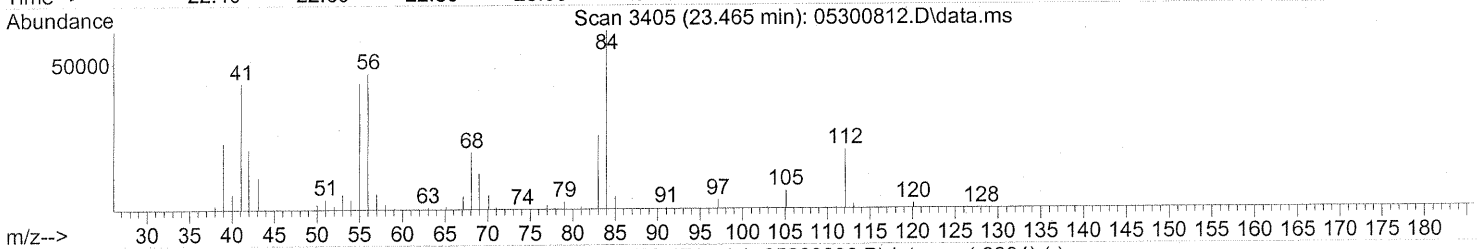
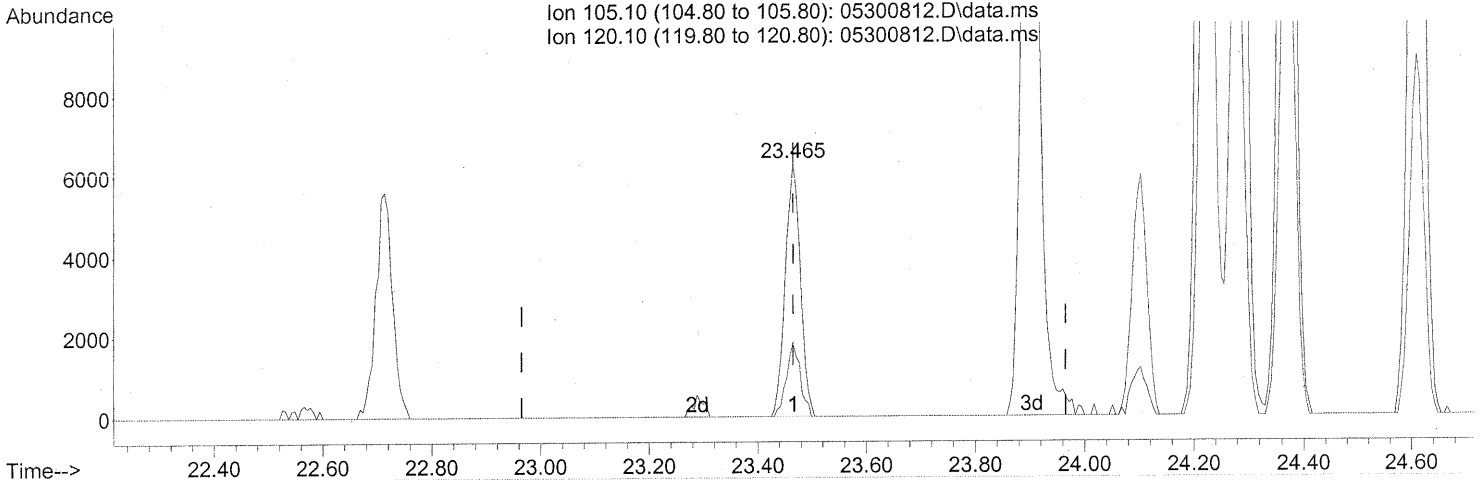
response 2934

Ion	Exp%	Act%
82.90	100	100
84.90	66.10	43.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.15ng

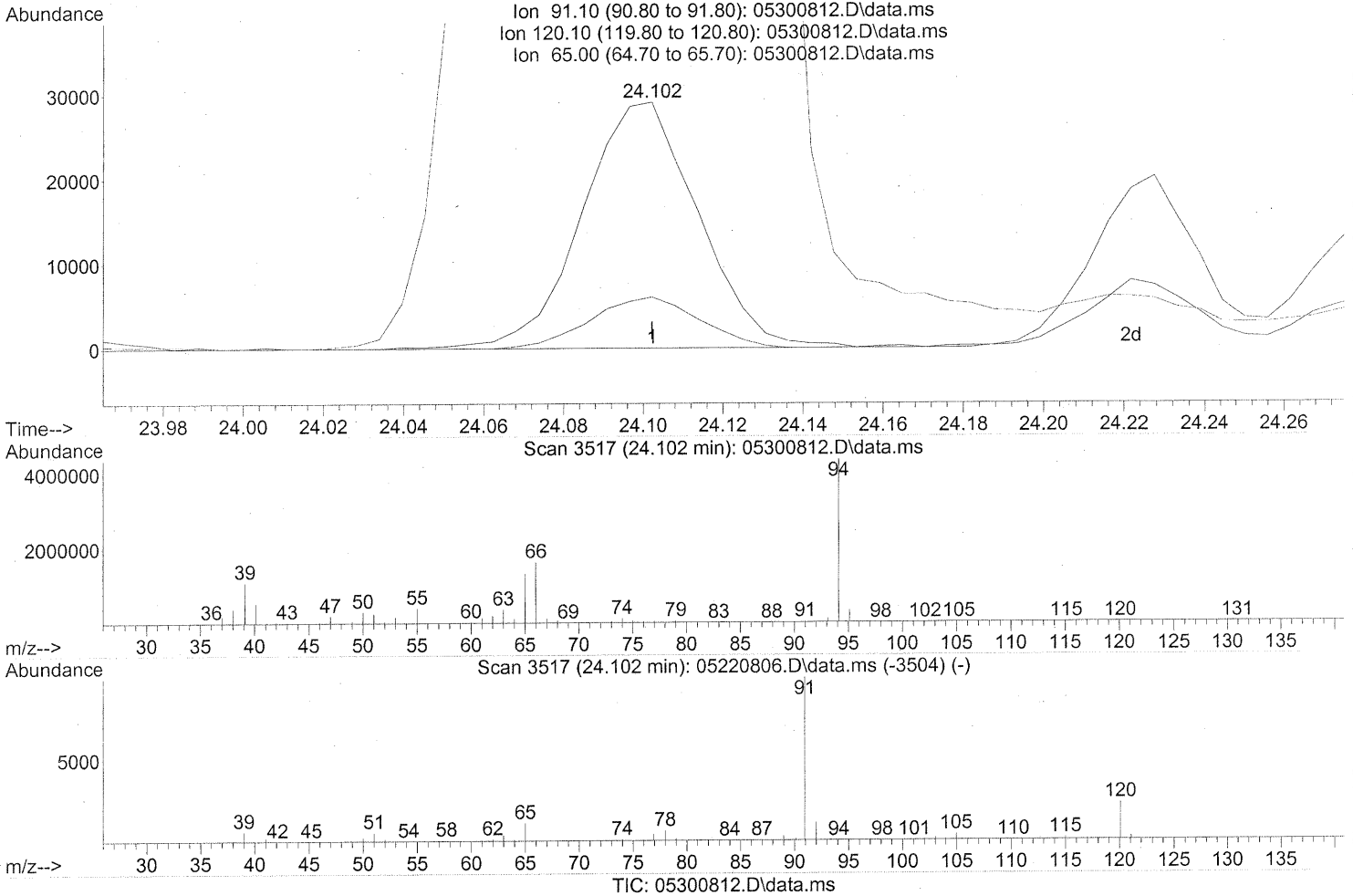
response 12080

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	26.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300812.D  
Acq On : 30 May 2008 4:33 pm  
Operator : WA  
Sample : P0801548-003 (1000ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(76) n-Propylbenzene (T)  
24.102min (-0.000) 0.57ng  
response 58706

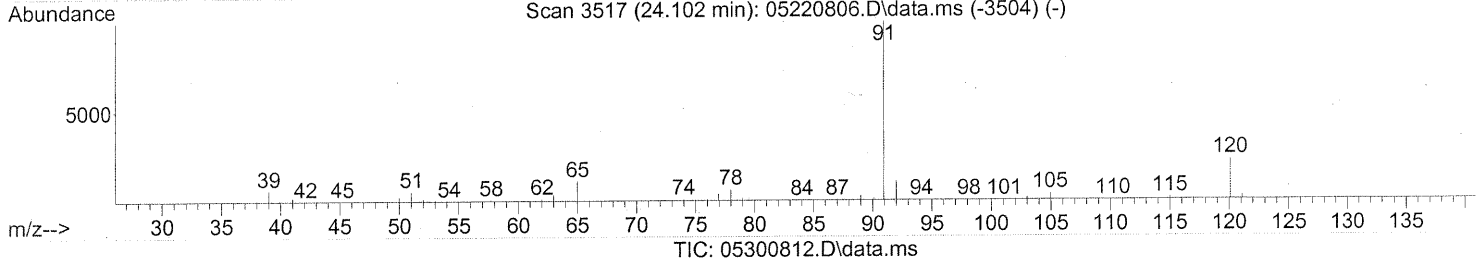
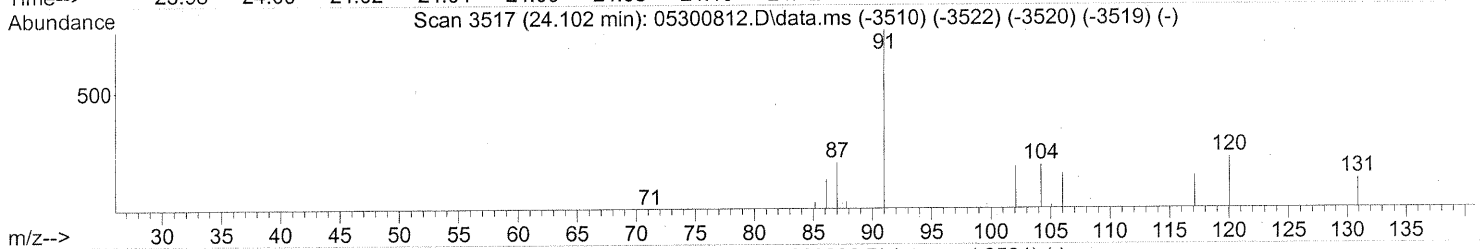
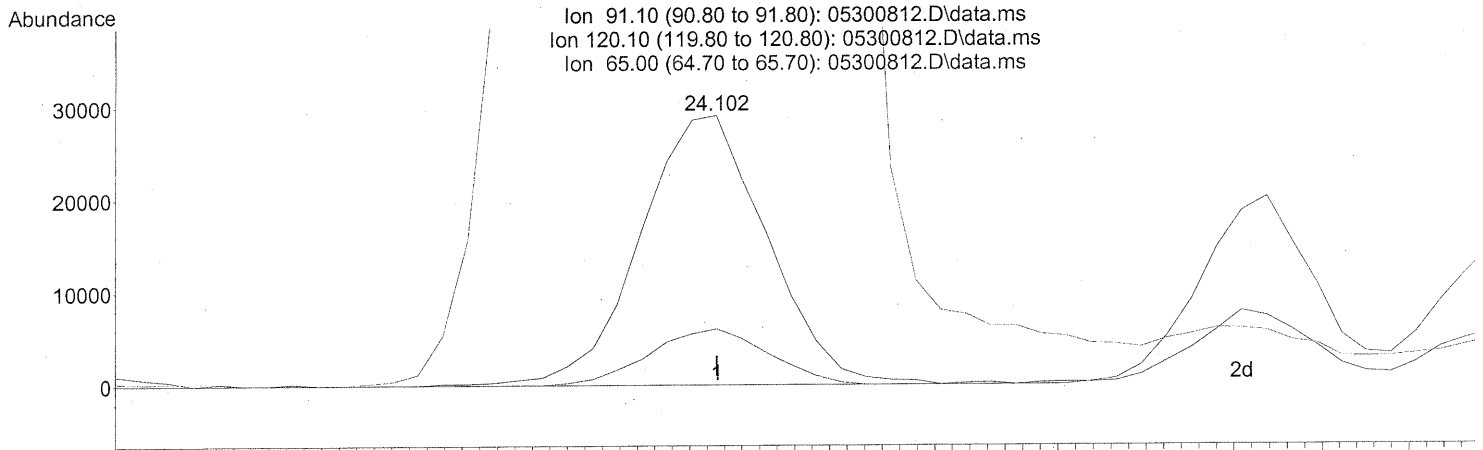
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.35
65.00	11.40	5935.32#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (-0.000) 0.57ng

response 58706

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.35
65.00	11.40	5935.32#
0.00	0.00	0.00

AFTER SUBTRACTION

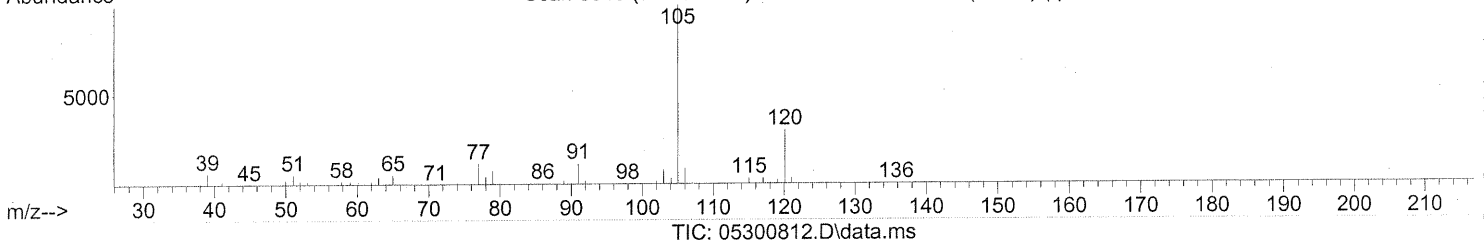
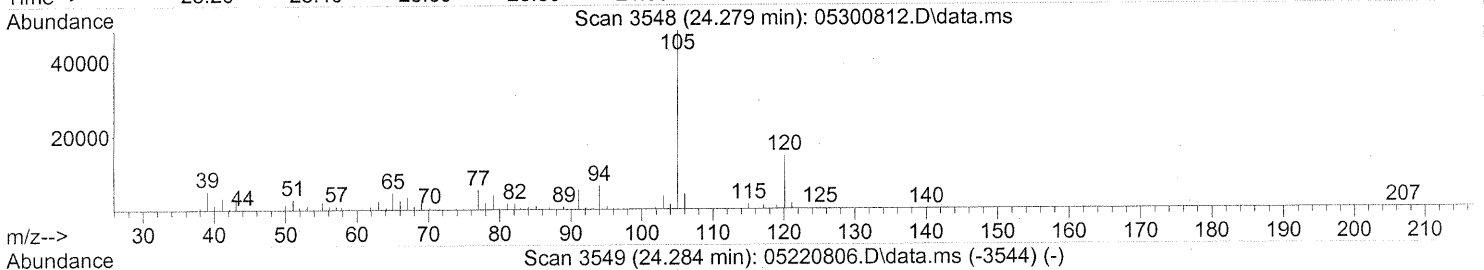
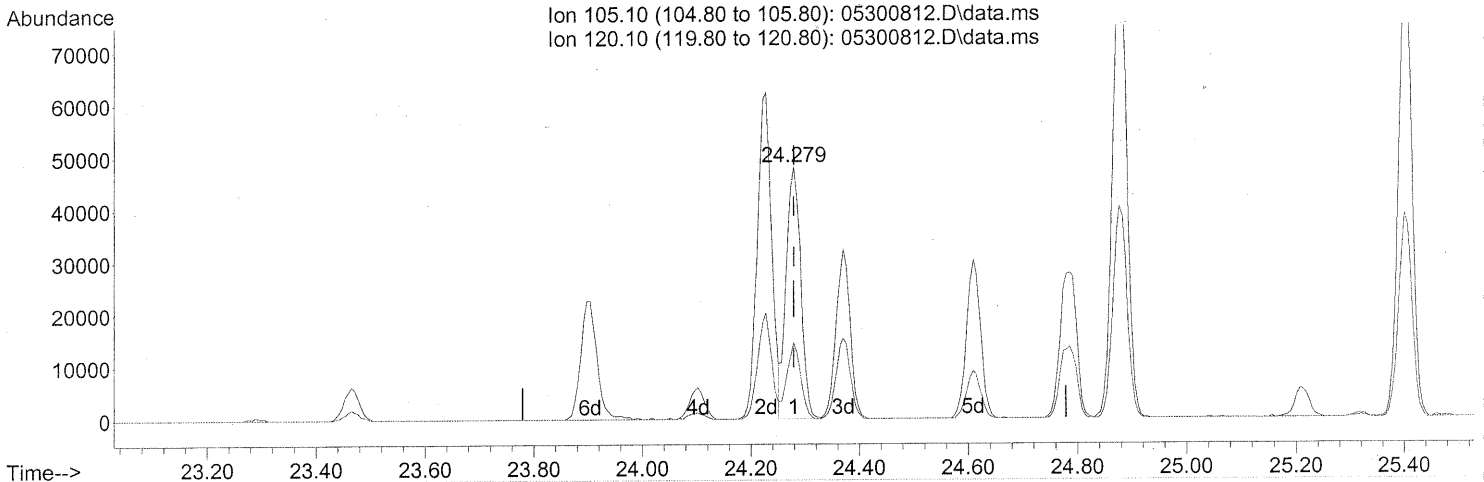
F 05/04/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 1.12ng

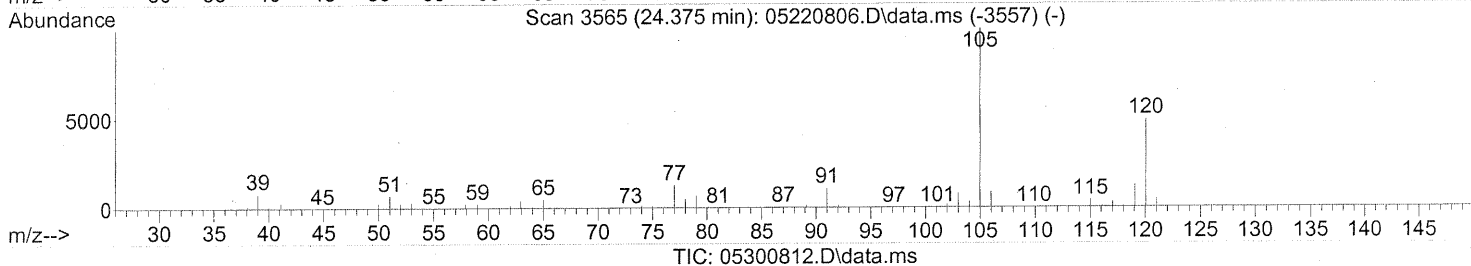
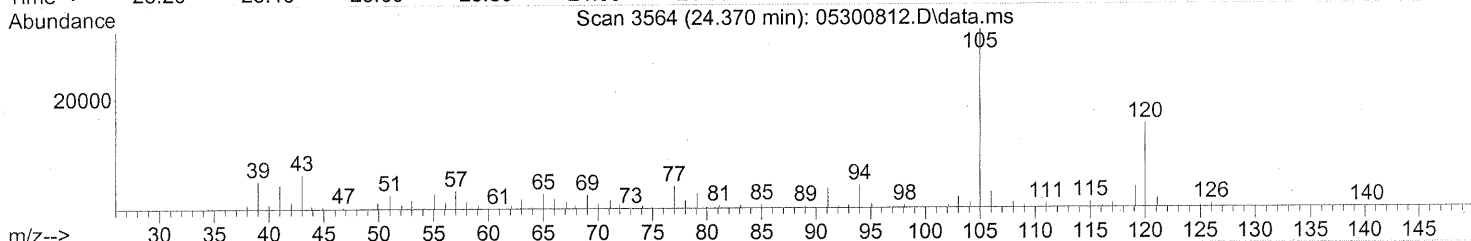
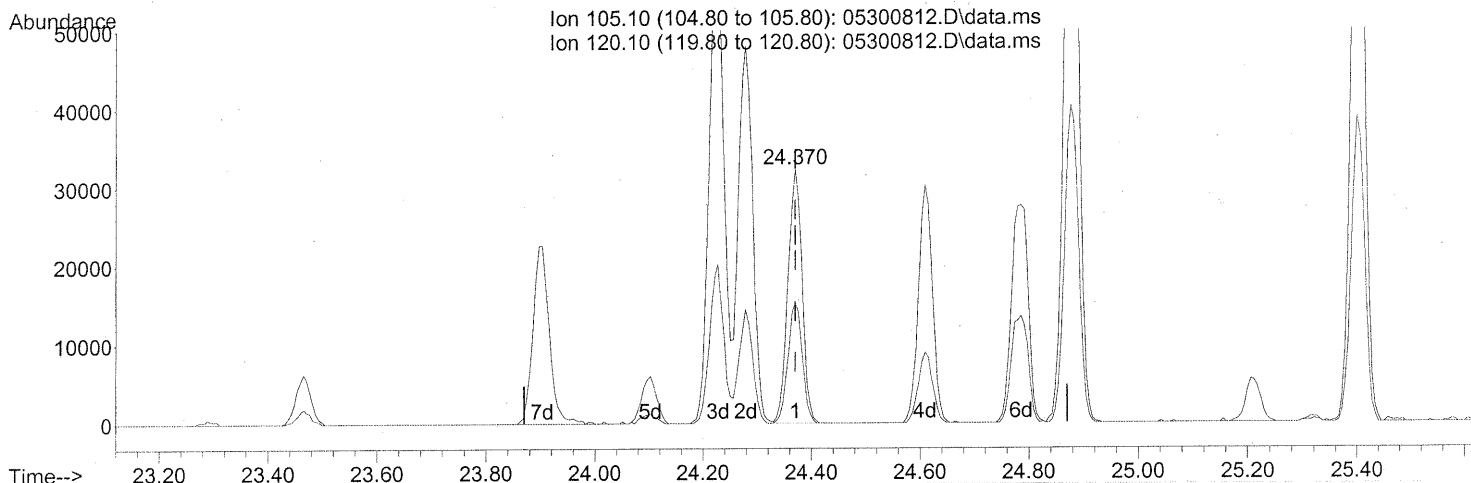
response 89656

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	27.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.81ng

response 58336

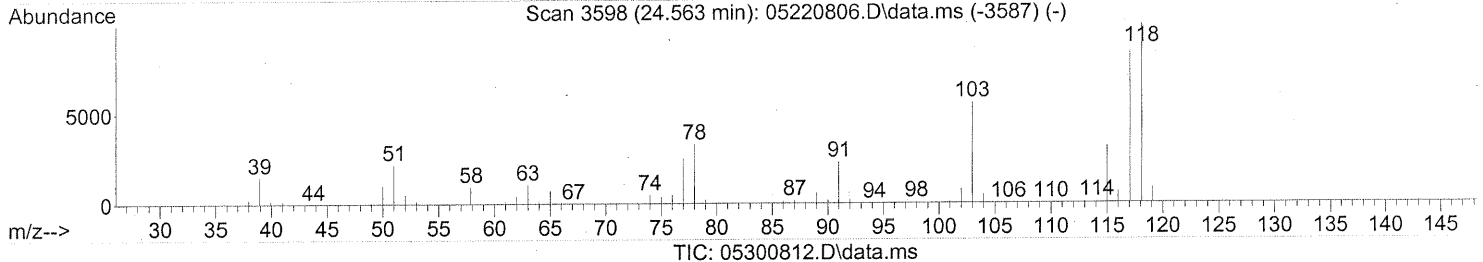
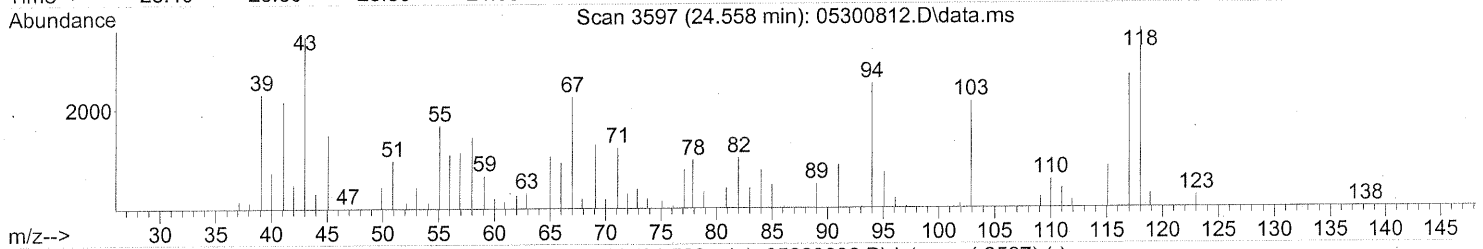
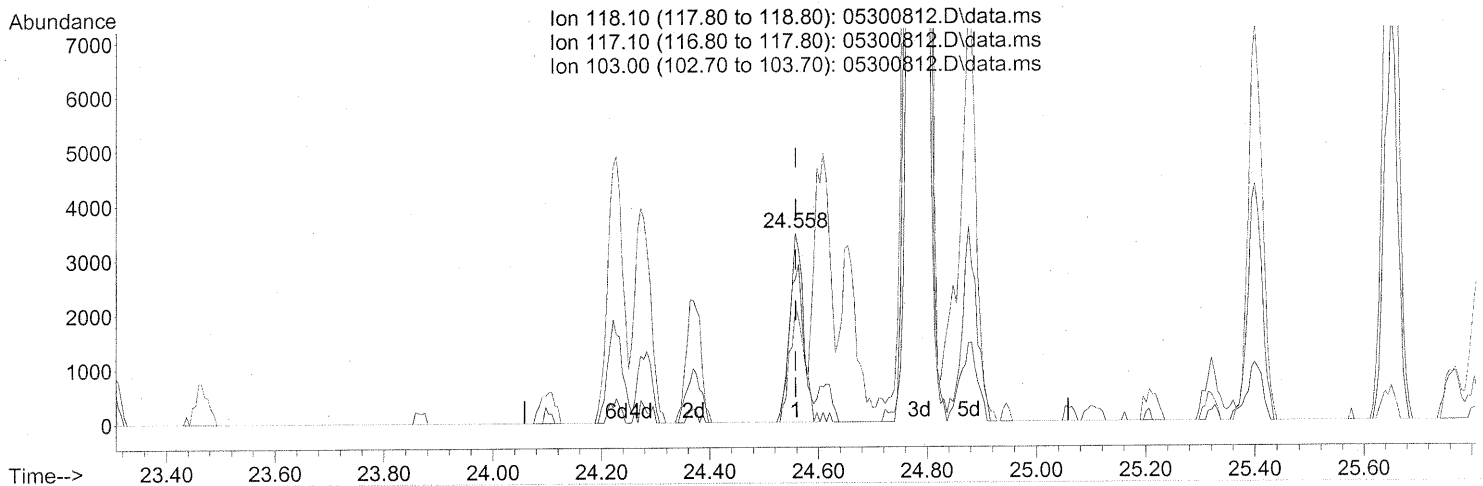
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.82
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.558min (-0.000) 0.15ng

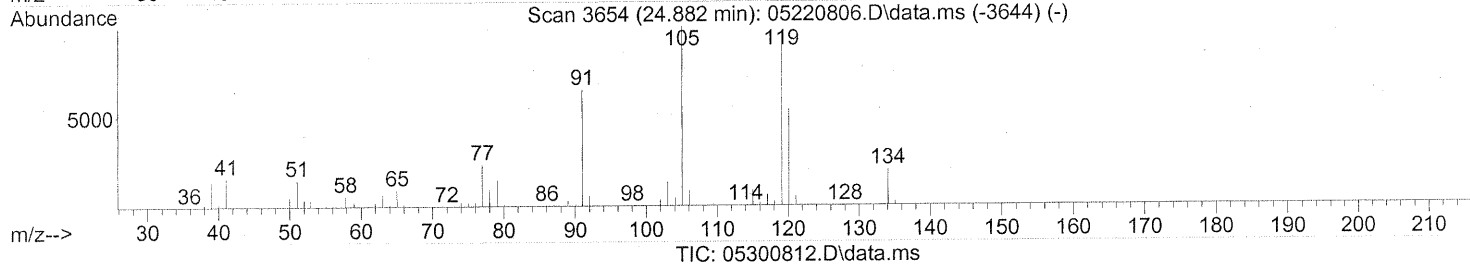
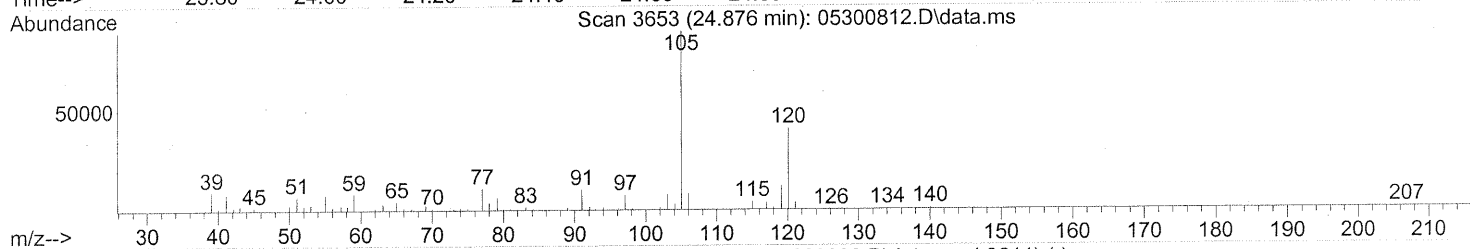
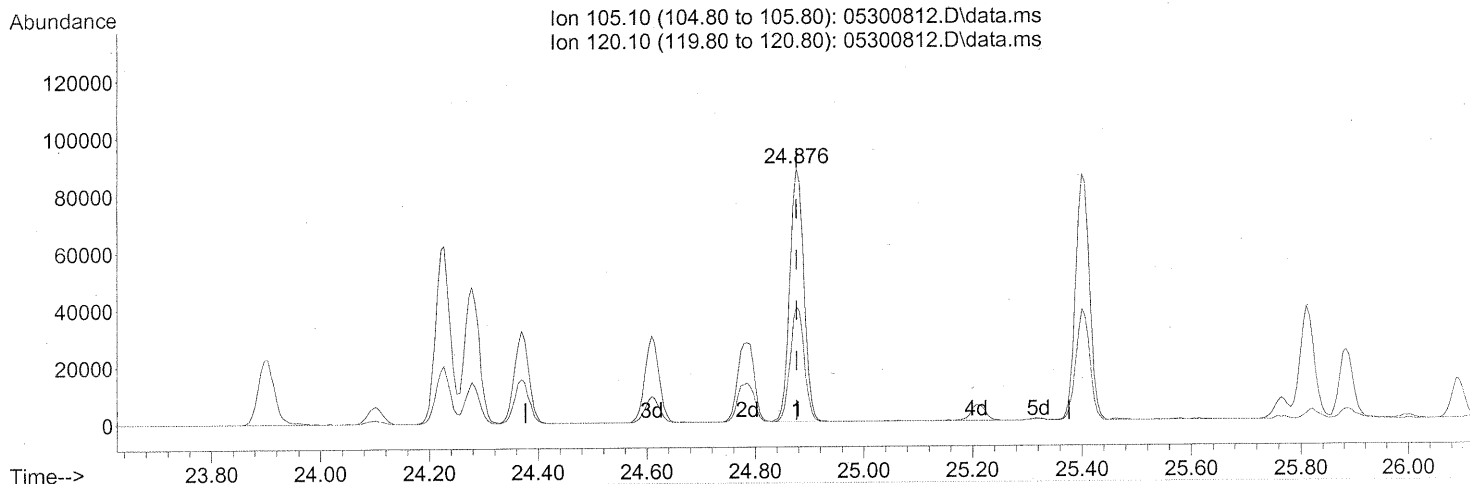
response 6055

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	88.11
103.00	55.30	61.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 2.20ng

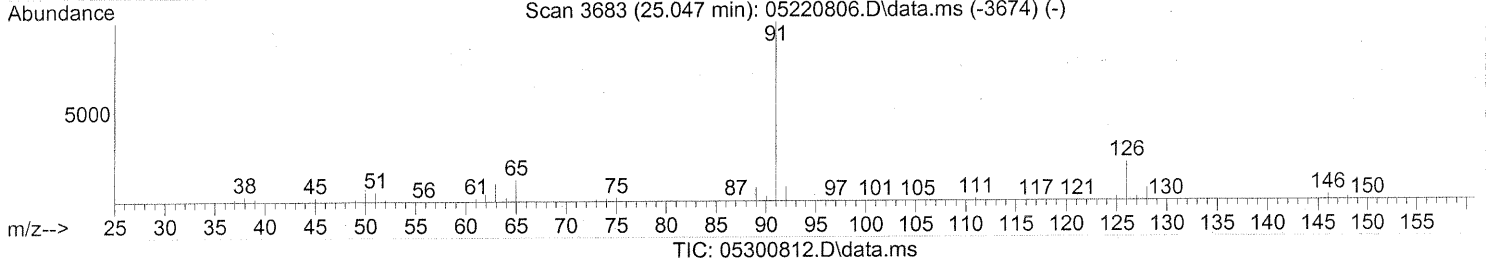
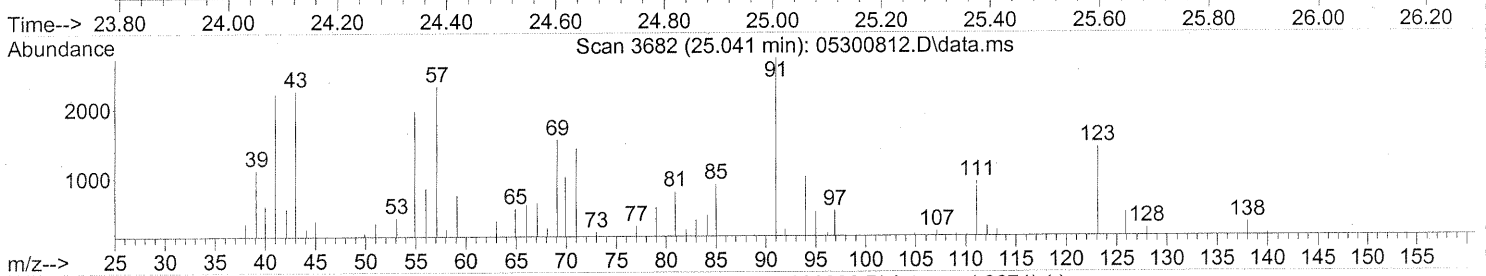
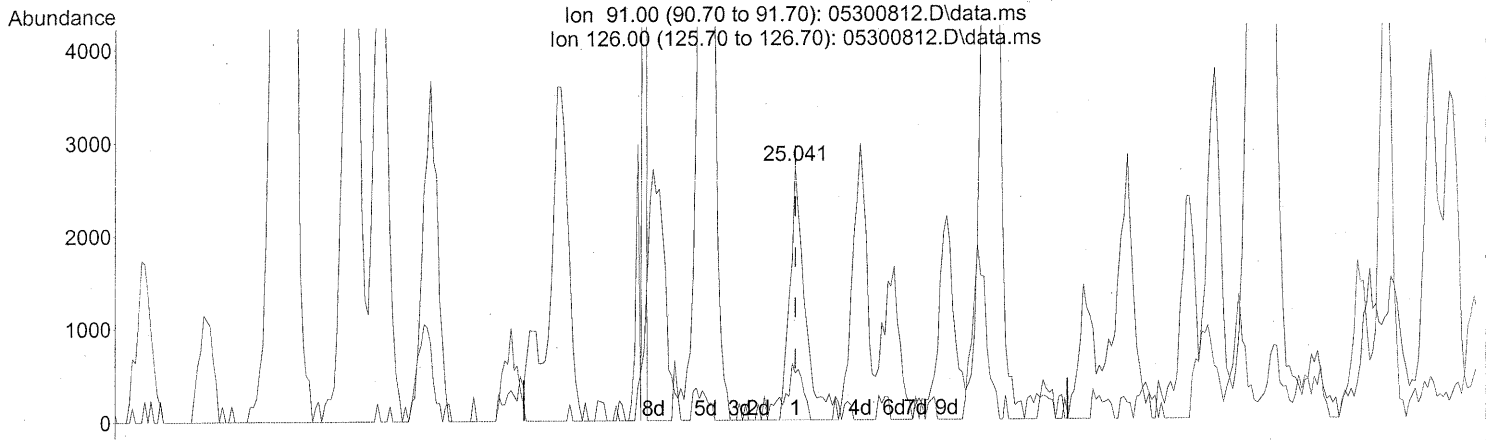
response 161763

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



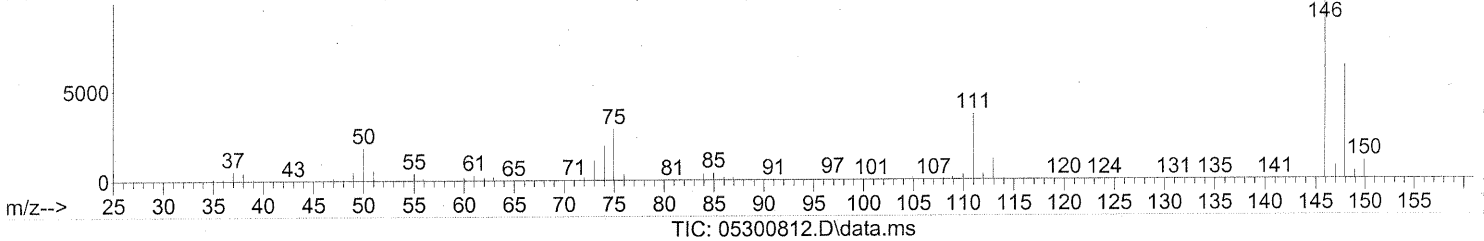
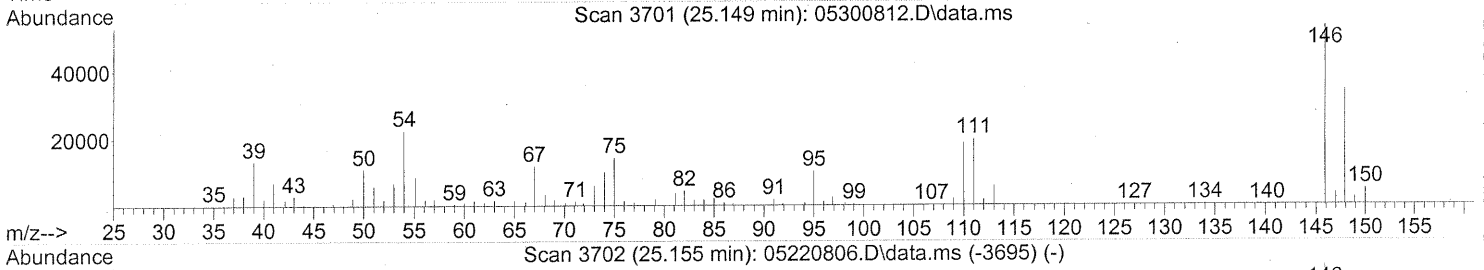
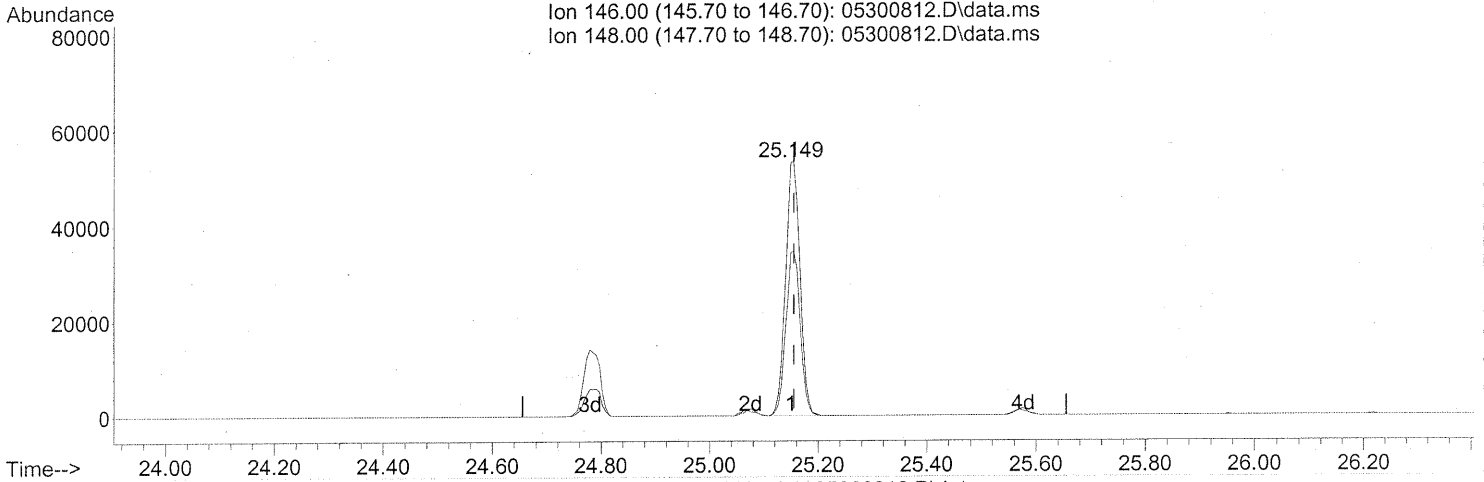
(84) Benzyl Chloride (T)  
 25.041min (-0.000) 0.11ng  
 response 5329

Ion	Exp%	Act%
91.00	100	100
126.00	22.50	19.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.149min (-0.006) 2.22ng

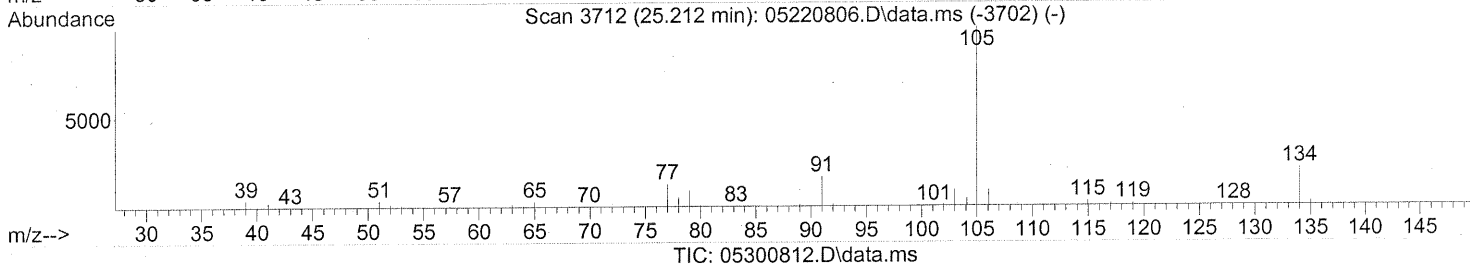
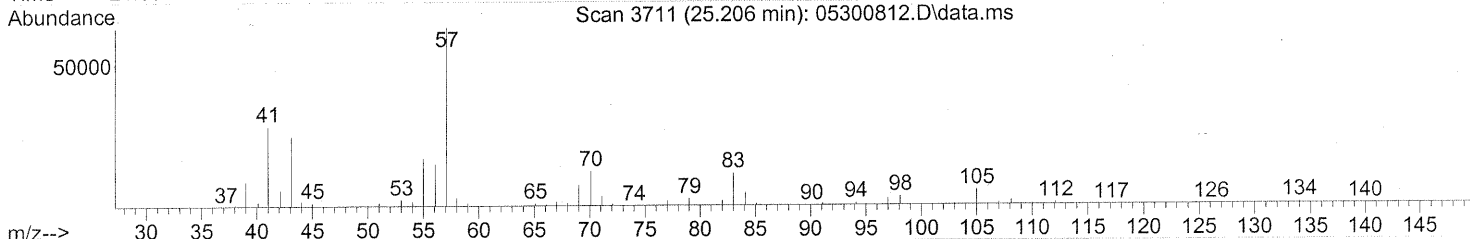
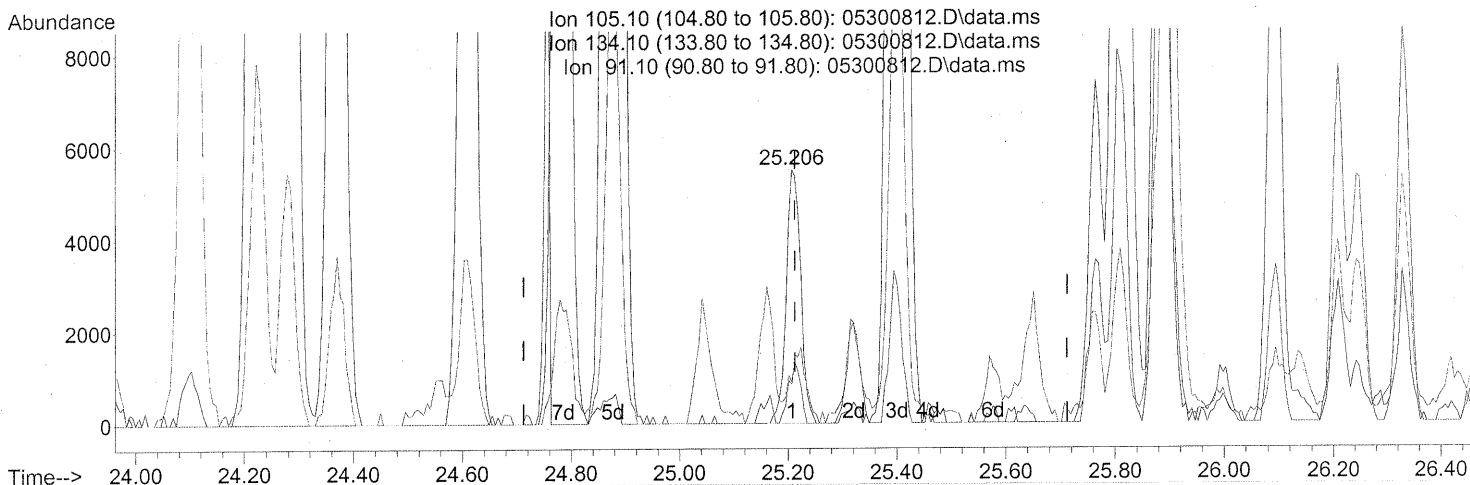
response 98983

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.11ng

response 10178

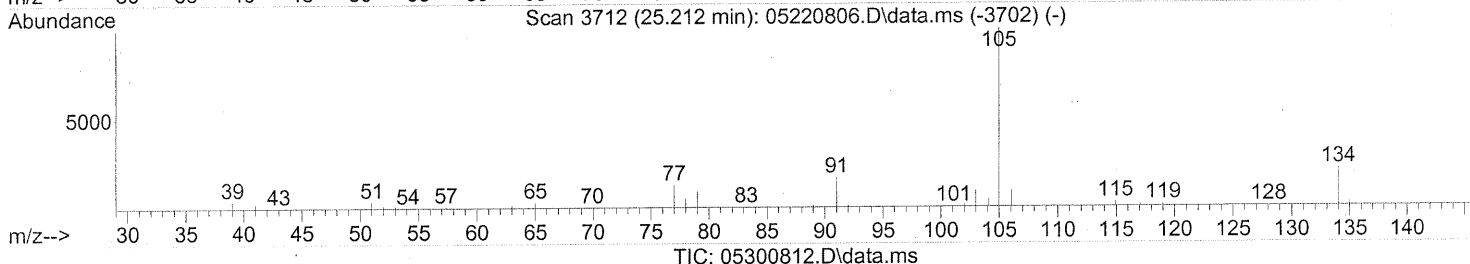
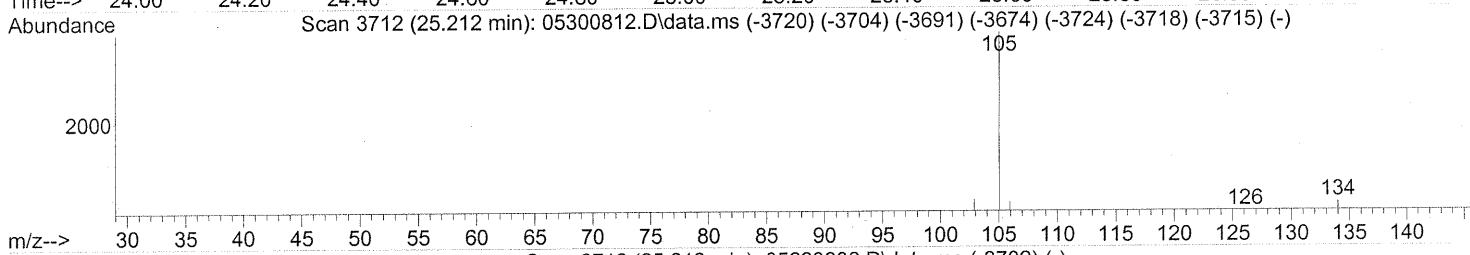
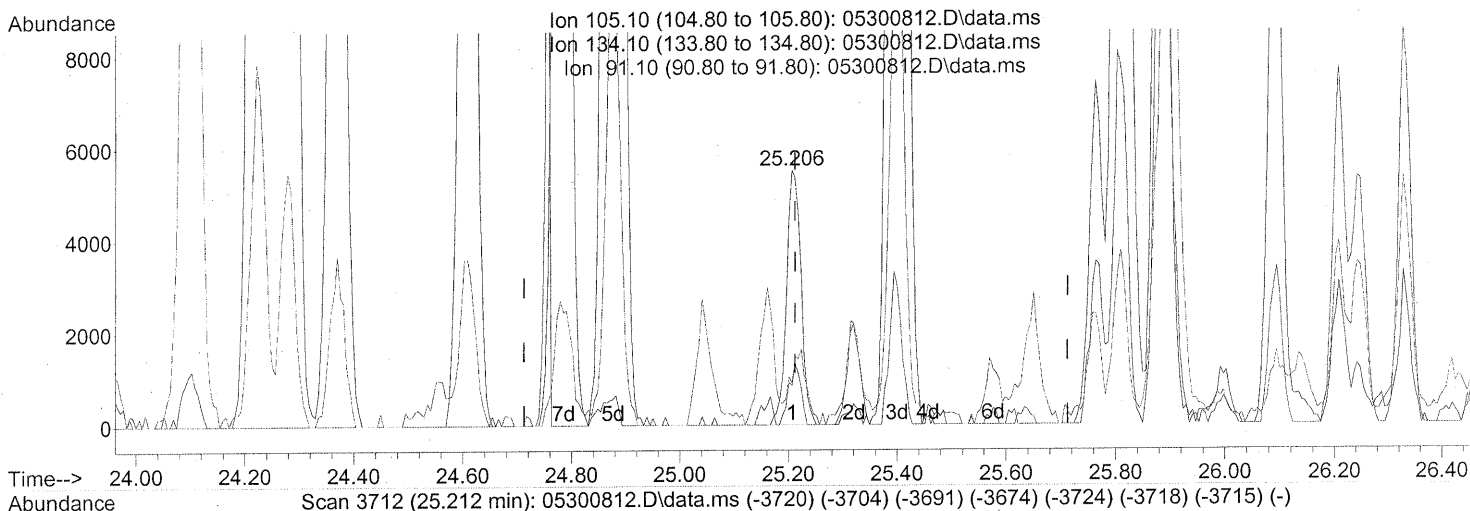
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.70
91.10	14.60	32.70
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.11ng

response 10178

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.70
91.10	14.60	32.70
0.00	0.00	0.00

AFTER SUBTRACTION

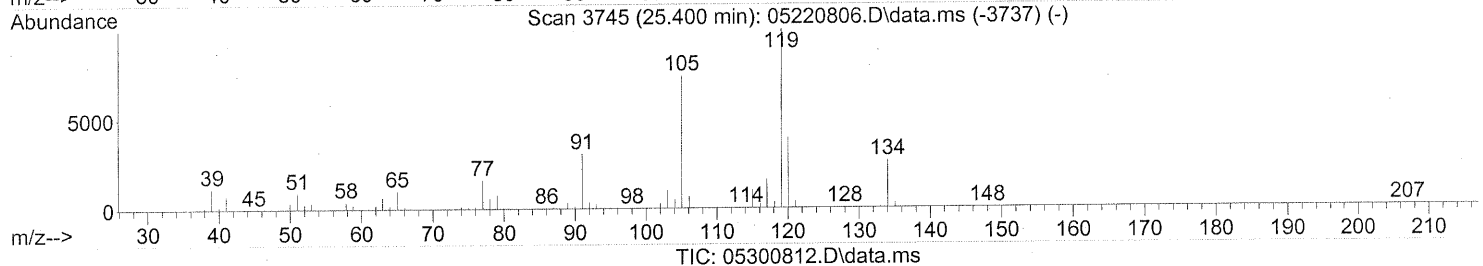
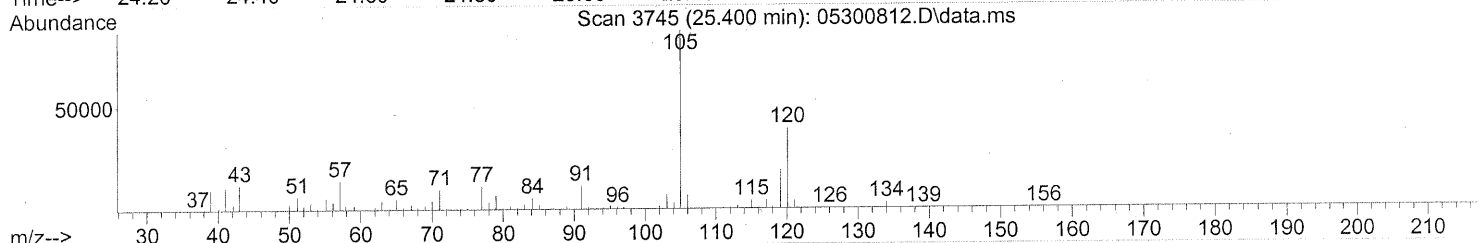
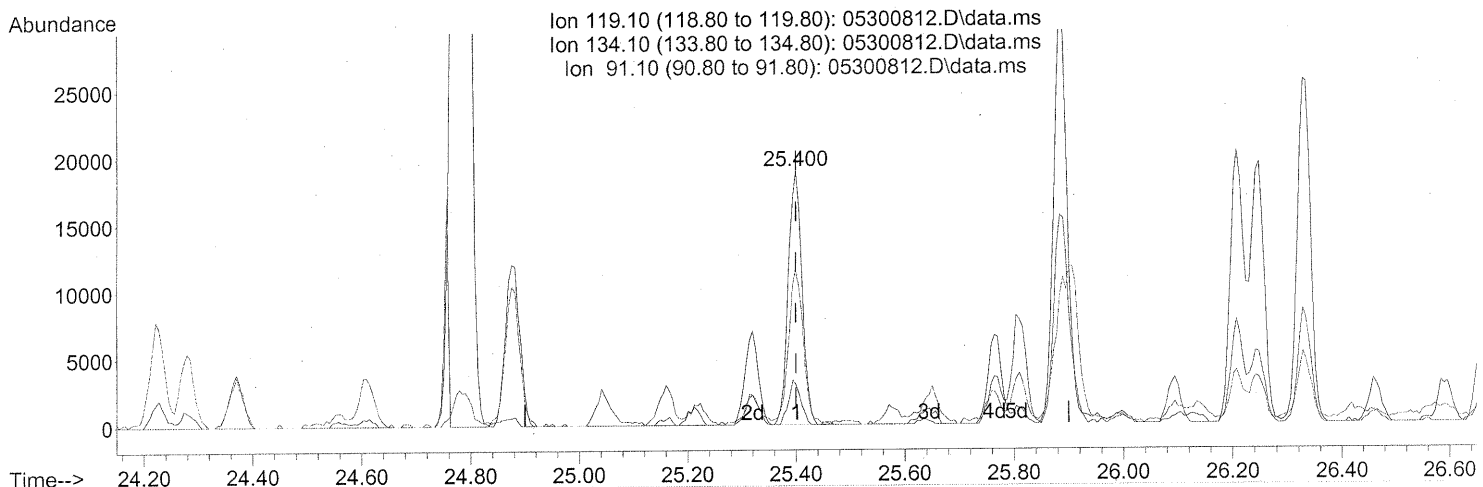
*Handwritten signature*

*Handwritten signature*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.43ng

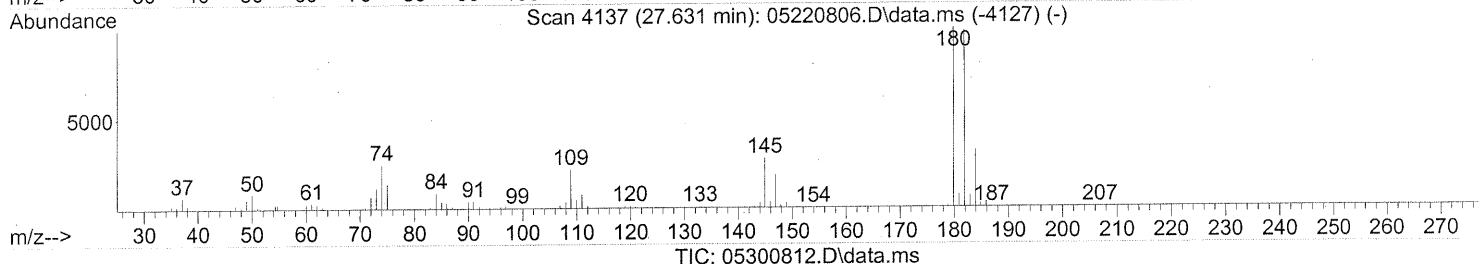
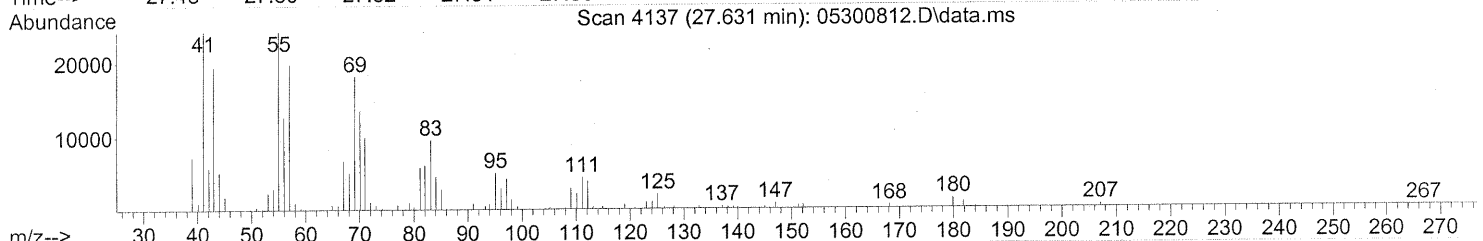
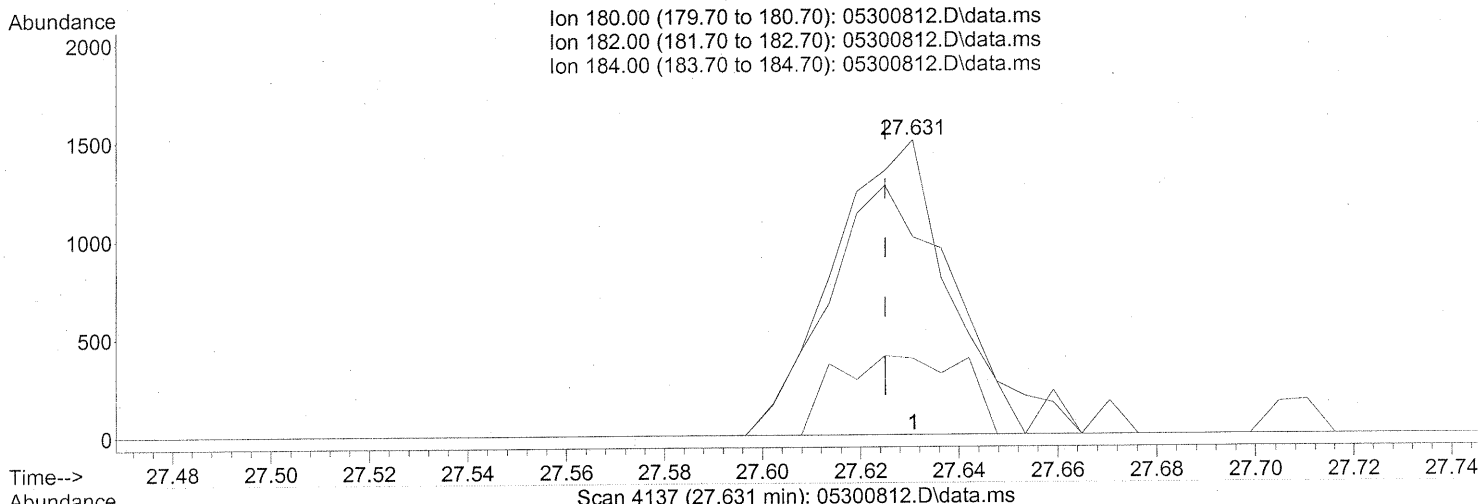
response 33458

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	15.37
91.10	27.10	65.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.631min (+0.006) 0.08ng

response 2528

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	87.46
184.00	30.30	28.80
0.00	0.00	0.00

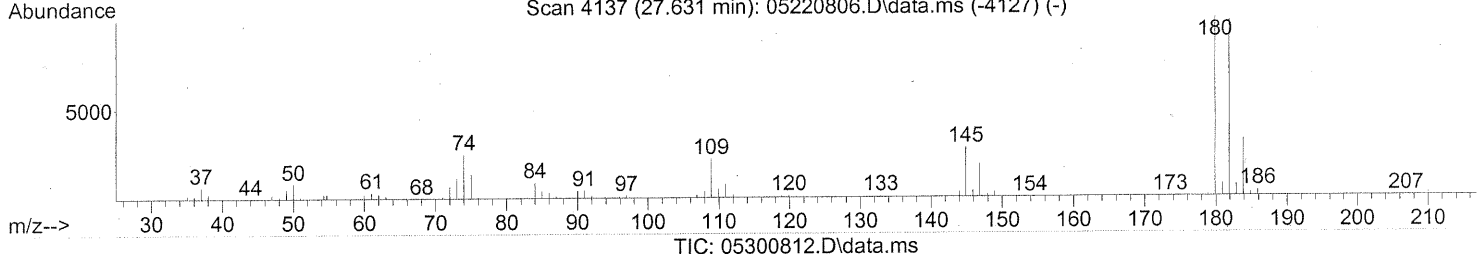
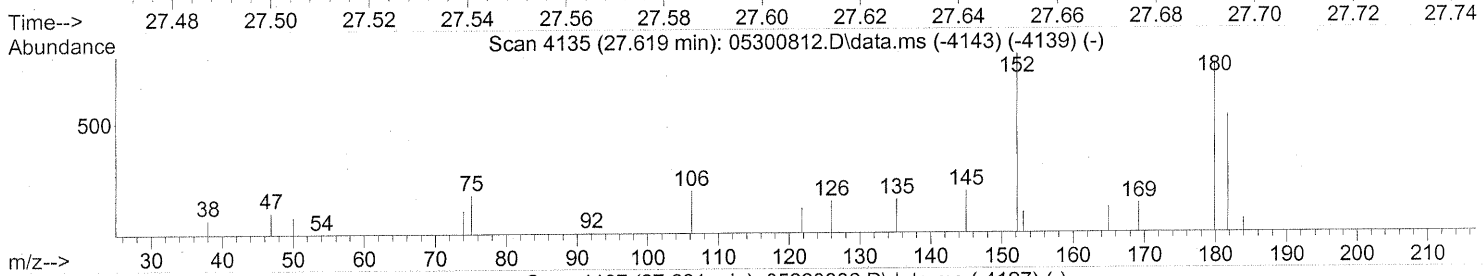
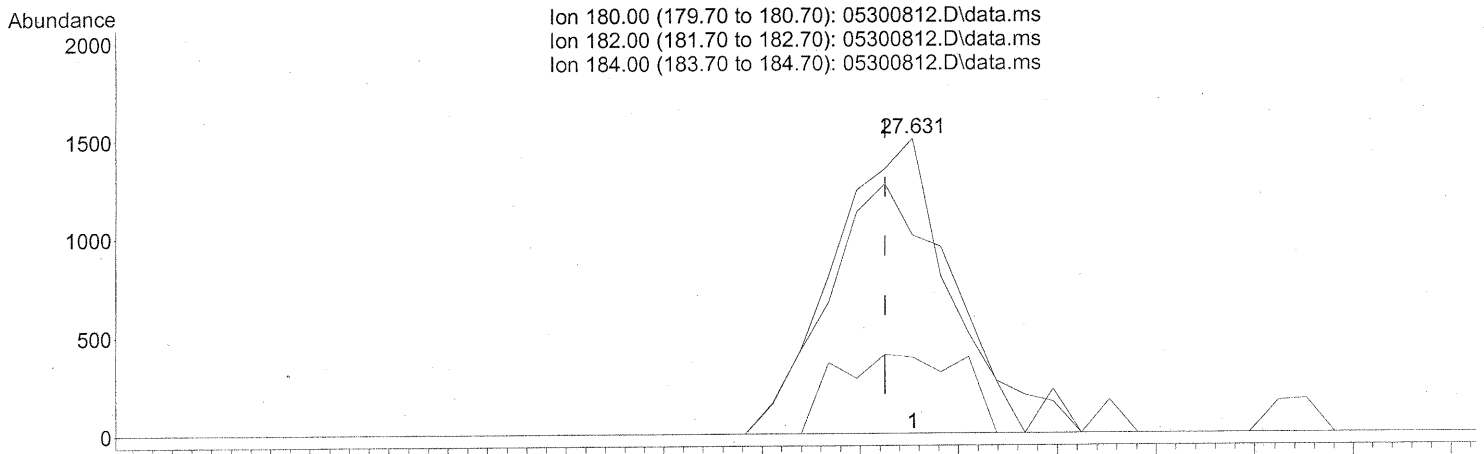
**BEFORE SUBTRACTION**



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.631min (+0.006) 0.08ng

response 2528

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	87.46
184.00	30.30	28.80
0.00	0.00	0.00

AFTER SUBTRACTION

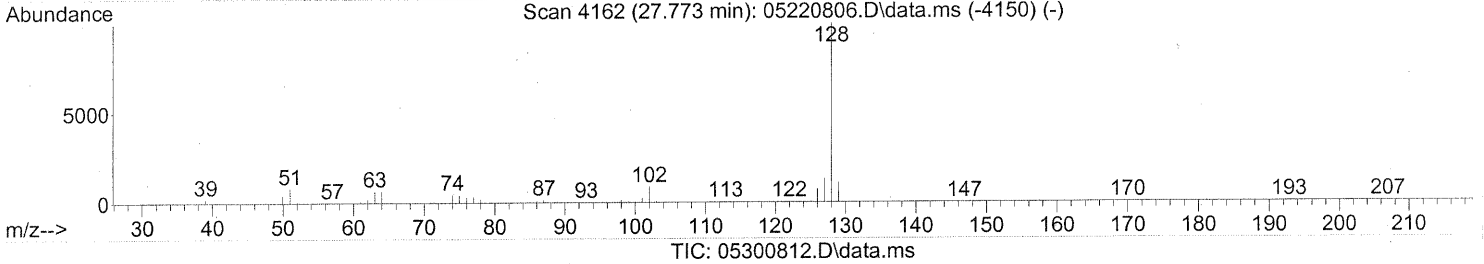
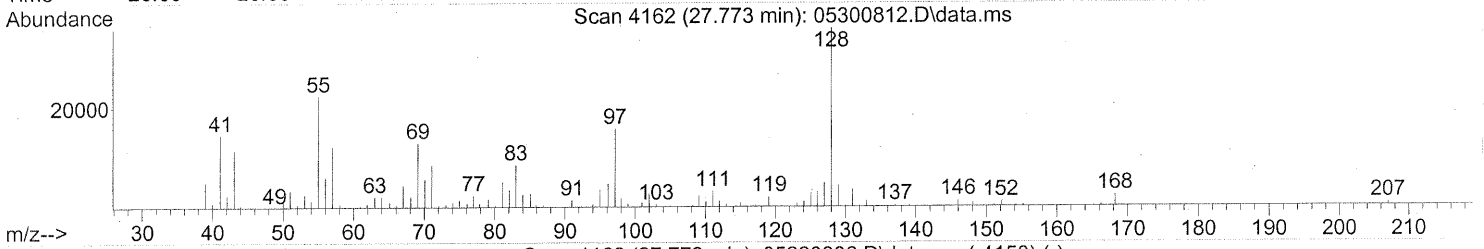
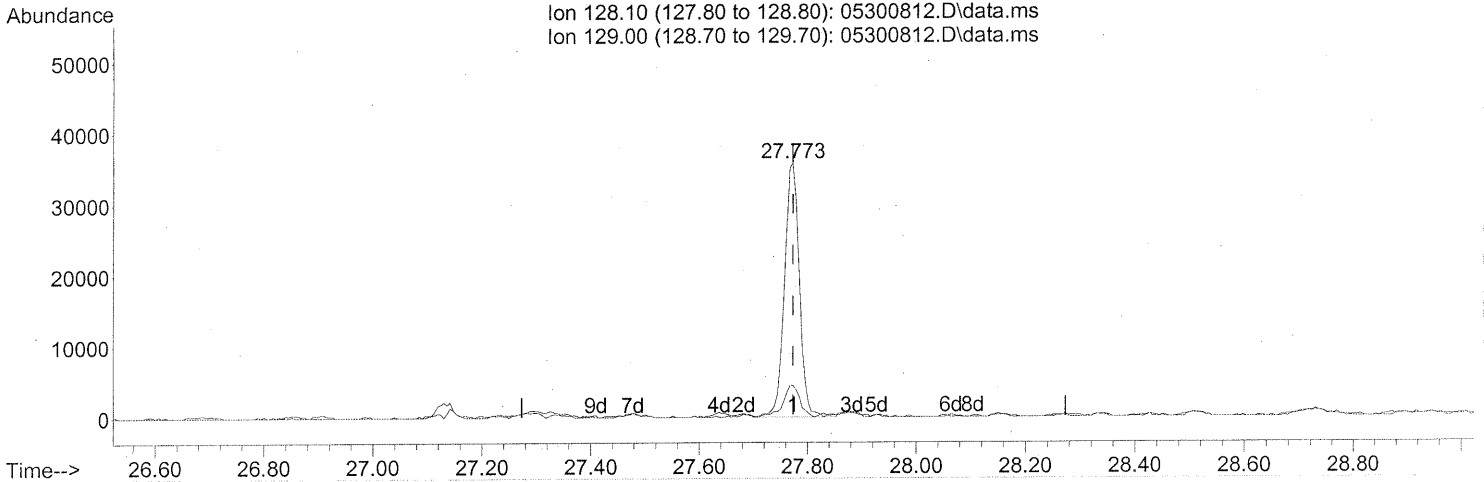
F 06/04/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (-0.000) 0.71ng

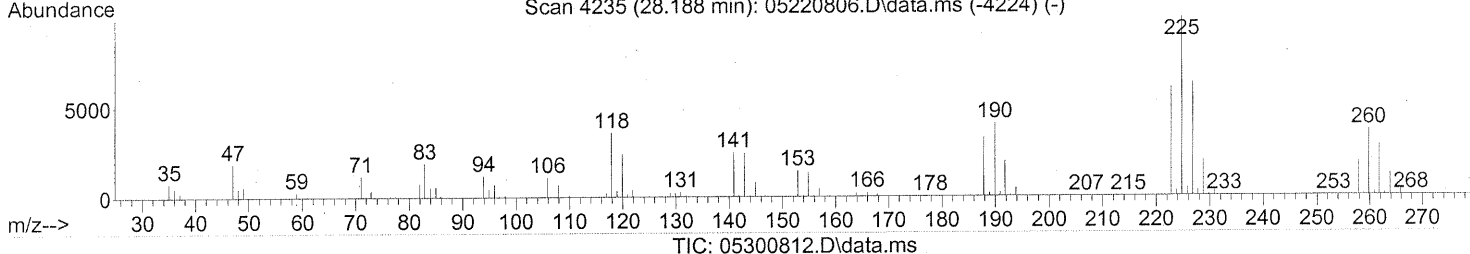
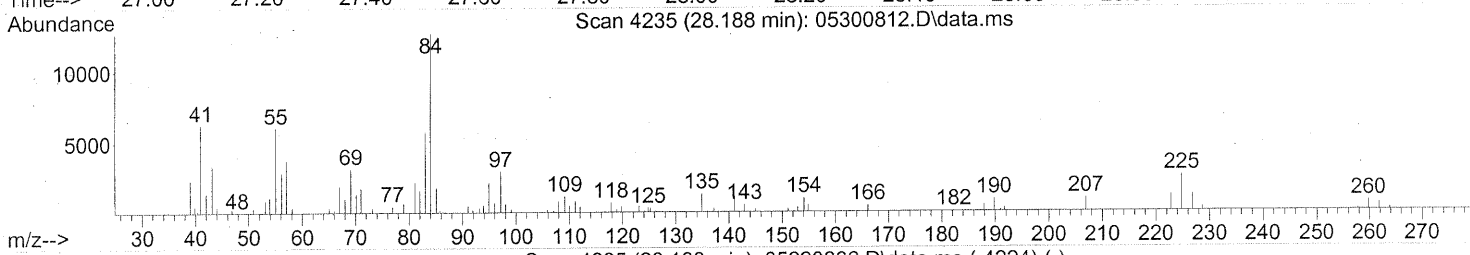
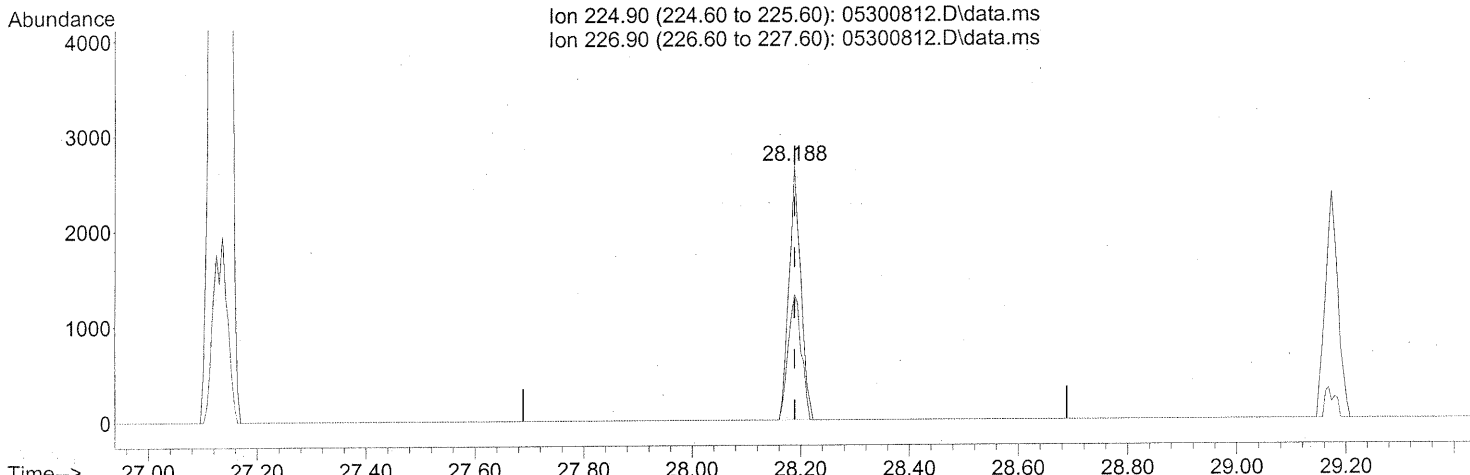
response 68462

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300812.D  
Acq On : 30 May 2008 4:33 pm  
Operator : WA  
Sample : P0801548-003 (1000ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

*BEFORE SUBTRACTION*

28.188min (-0.000) 0.19ng

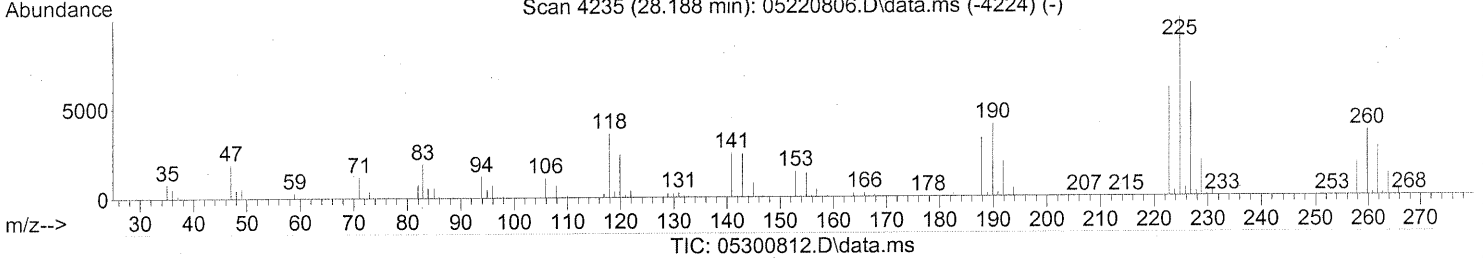
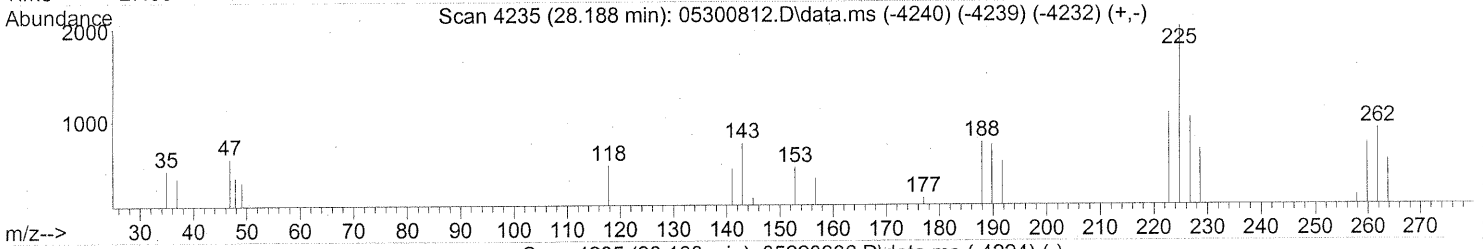
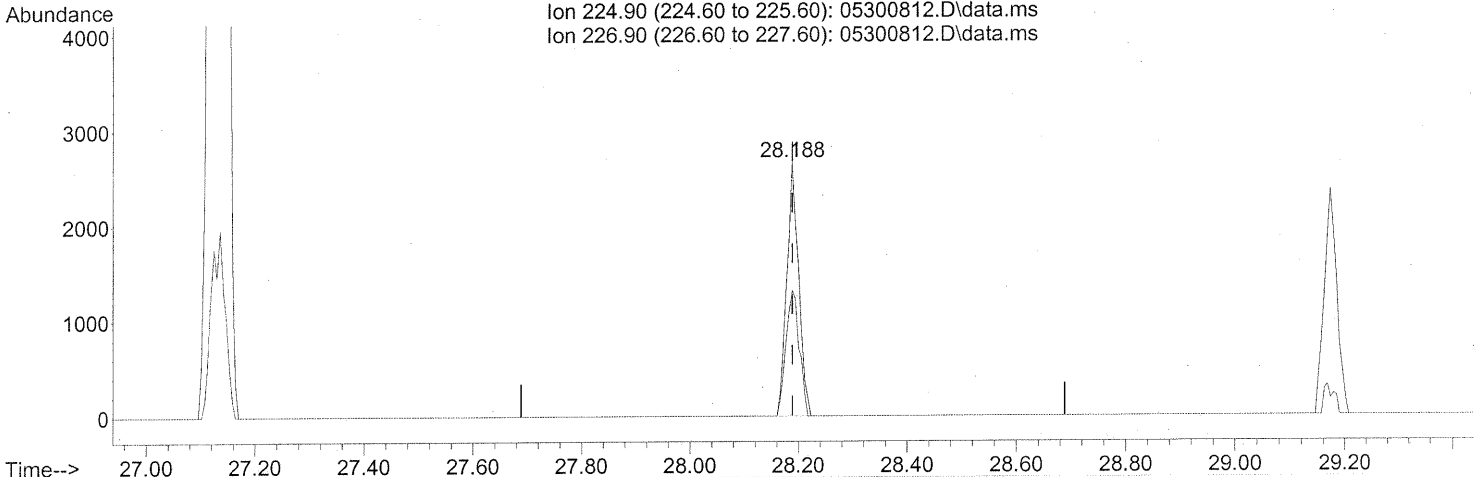
response 4039

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	55.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 17:40:31 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 0.19ng

response 4039

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	55.46
0.00	0.00	0.00
0.00	0.00	0.00

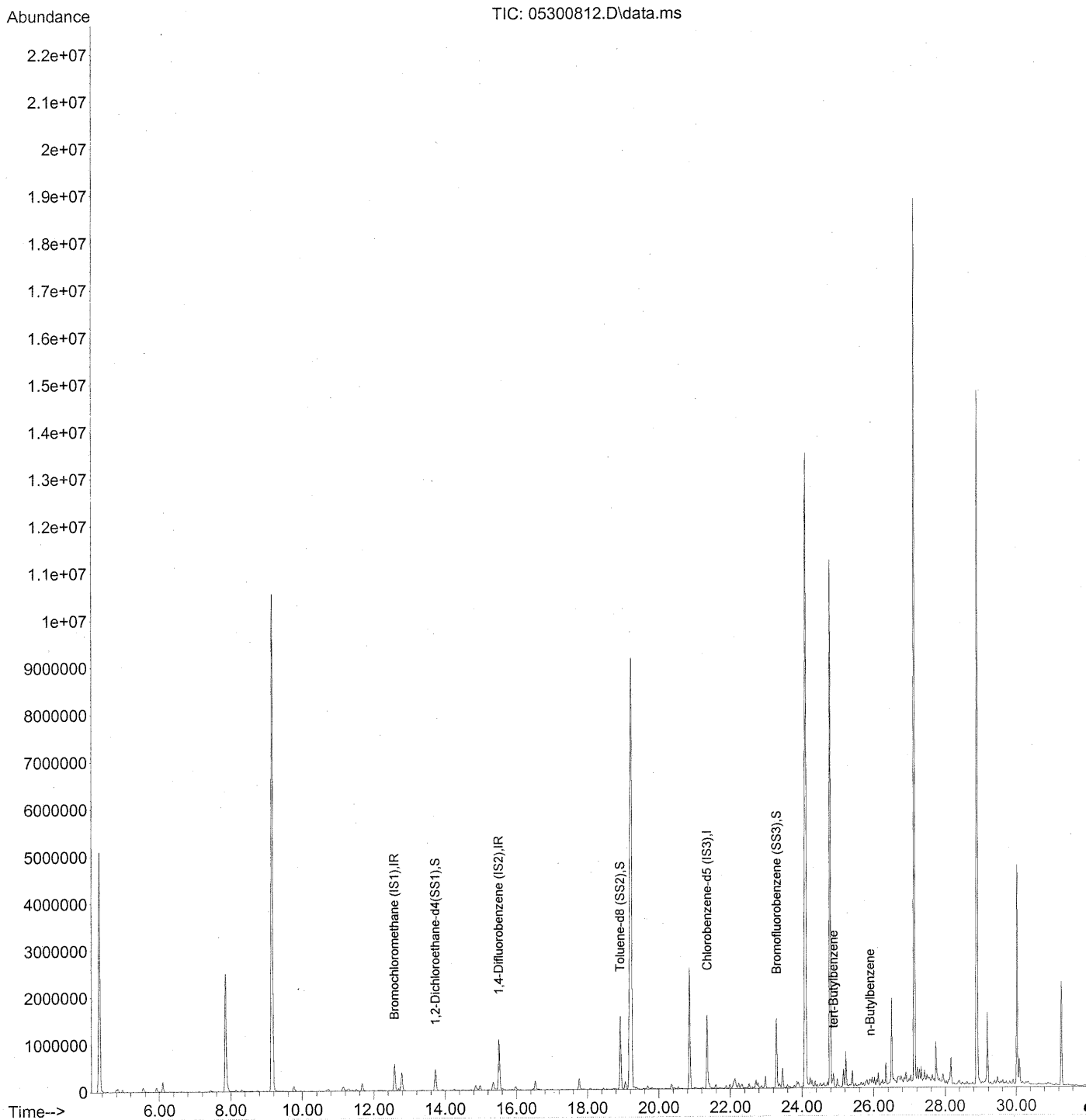
AFTER SUBTRACTION

6/04/08

6/9/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5) ✓  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 08 17:22:34 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 08 17:22:34 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	287830	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1253641	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	599055	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	466536	23.393	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.56%	✓
5) Toluene-d8 (SS2)	18.92	98	1310750	24.363	ng	-0.02
Spiked Amount	25.000		Recovery	=	97.44%	✓
6) Bromofluorobenzene (SS3)	23.29	174	564018	25.780	ng	0.00
Spiked Amount	25.000		Recovery	=	103.12%	✓
Target Compounds						
7) tert-Butylbenzene	<del>24.88</del>	119	22597	<del>0.321 ng</del>		Qvalue # 67
8) n-Butylbenzene	<del>25.90</del>	91	32570	<del>0.419 ng</del>		# 38

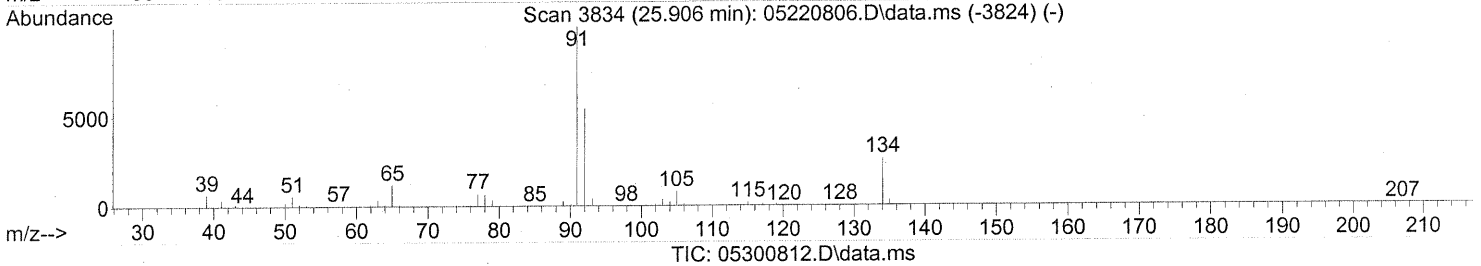
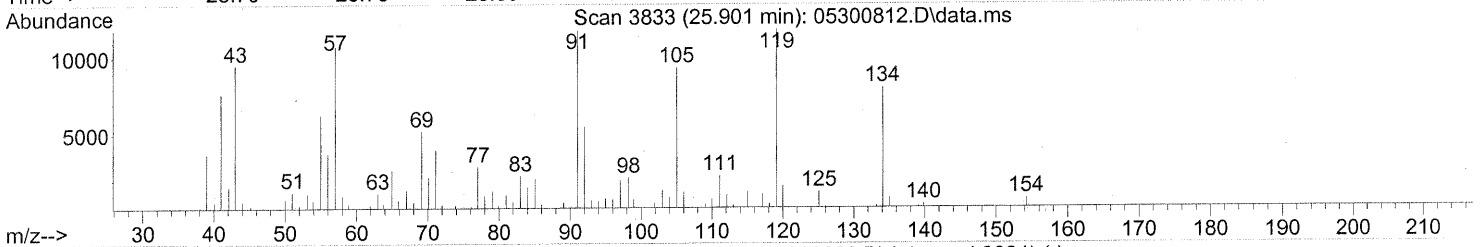
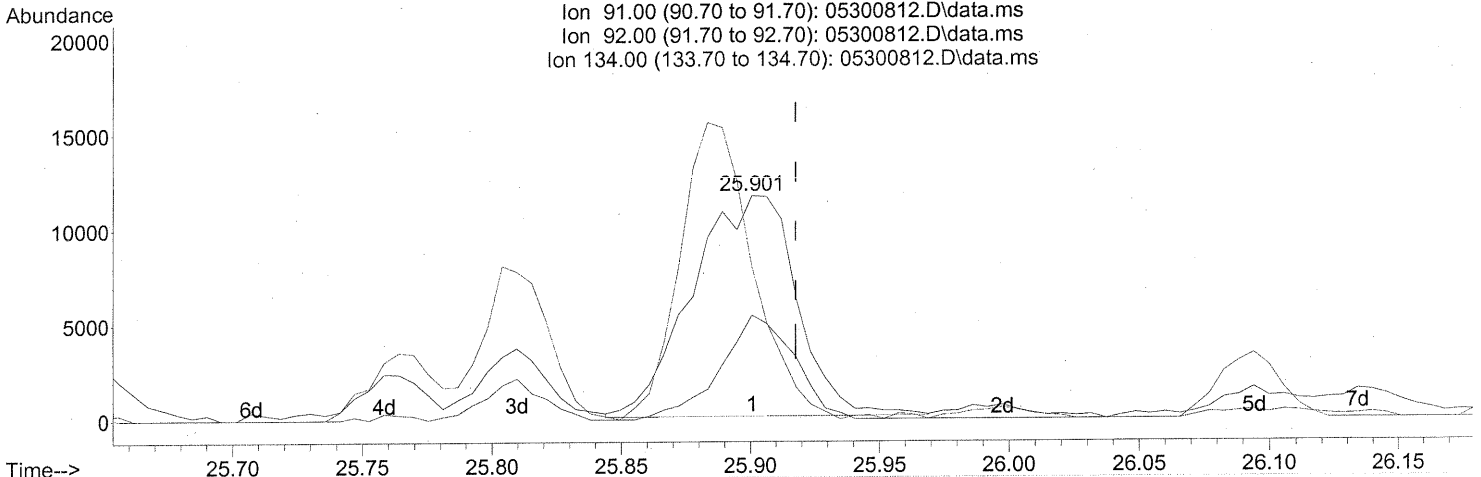
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Feb 08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300812.D  
 Acq On : 30 May 2008 4:33 pm  
 Operator : WA  
 Sample : P0801548-003 (1000ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 08 17:22:34 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

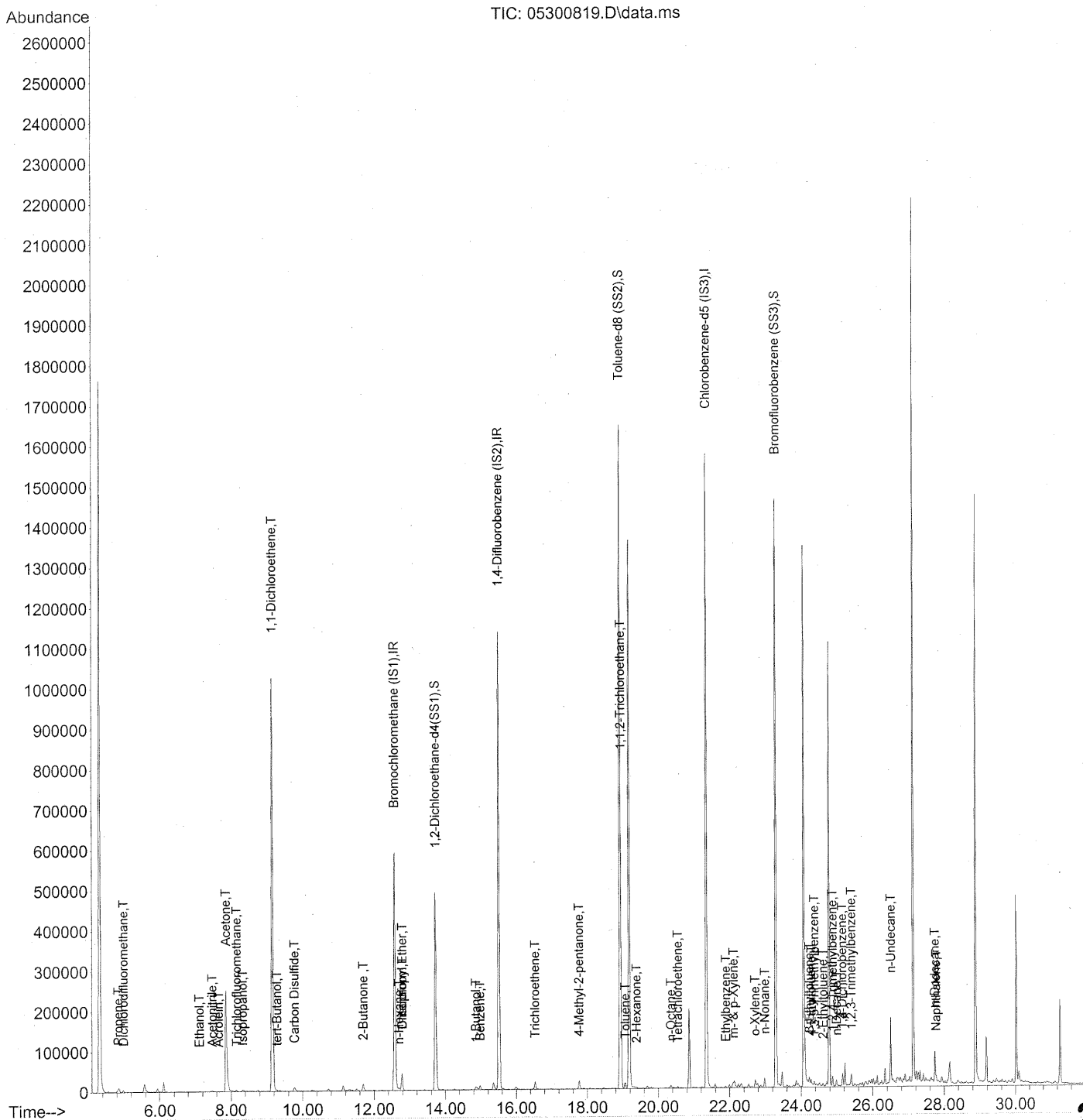
25.901min (-0.017) 0.42ng

response 32570

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	33.12#
134.00	28.80	94.39#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300819.D  
 Acq On : 30 May 2008 23:54  
 Operator : WA  
 Sample : P0801548-003 Dil (100ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 05:07:10 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300819.D  
 Acq On : 30 May 2008 23:54  
 Operator : WA  
 Sample : P0801548-003 Dil (100ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 05:07:10 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	313254	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1330210	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	616027	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.72	65	508964	23.449	ng	0.00
Spiked Amount	25.000		Recovery =	93.80%	✓	
57) Toluene-d8 (SS2)	18.92	98	1384274	25.021	ng	0.00
Spiked Amount	25.000		Recovery =	100.08%	✓	
73) Bromofluorobenzene (SS3)	23.29	174	564447	25.089	ng	0.00
Spiked Amount	25.000		Recovery =	100.36%	✓	
Target Compounds						
2) Propene	4.83	42	3840	0.155	ng	# 37
3) Dichlorodifluoromethane	4.99	85	5793	0.127	ng	96
4) Chloromethane	5.32	50	305	N.D.		
5) Freon 114	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	7.11	45	1875	0.114	ng	# 53
11) Acetonitrile	7.47	41	5302	0.111	ng	# 58
12) Acrolein	7.65	56	658	0.056	ng	# 54
13) Acetone	7.85	58	131168	7.778	ng	# 57
14) Trichlorofluoromethane	8.15	101	4140	0.106	ng	96
15) Isopropanol	8.33	45	8496	0.158	ng	81
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.15	96	558146	32.432	ng	# 77
18) tert-Butanol	9.28	59	2846	0.062	ng	# 76
19) Methylene Chloride	9.37	84	692	N.D.		
20) Allyl Chloride	9.46	41	54	N.D.		
21) Trichlorotrifluoroethane	9.82	151	467	N.D.		
22) Carbon Disulfide	9.77	76	25306	0.354	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	11.22	73	60	N.D.		
26) Vinyl Acetate	11.34	86	145	N.D.		
27) 2-Butanone	11.70	72	6637	0.539	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	4652	0.308	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	1831	0.055	ng	# 71

*F. G. 10/10/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300819.D  
 Acq On : 30 May 2008 23:54  
 Operator : WA  
 Sample : P0801548-003 Dil (100ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 05:07:10 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	42218	1.478	ng	98
34) Tetrahydrofuran	13.39	72	261	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.71	62	66	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	14.86	56	8700	0.476	ng	94
41) Benzene	14.98	78	12206	0.175	ng	97
42) Carbon Tetrachloride	15.20	117	789	N.D.		
43) Cyclohexane	15.41	84	275	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.53	130	8309	0.389	ng	100
48) 1,4-Dioxane	16.51	88	67	N.D.		
49) Isooctane	16.61	57	711	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.97	71	140	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	7232	0.391	ng	78
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.95	97	120972	7.029	ng	# 8
58) Toluene	19.07	91	15159	0.202	ng	96
59) 2-Hexanone	19.38	43	2810	0.054	ng	# 56
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.19	43	659	N.D.		
63) n-Octane	20.35	57	1428	0.086	ng	85
64) Tetrachloroethene	20.54	166	1613	0.072	ng	94
65) Chlorobenzene	21.40	112	606	N.D.		
66) Ethylbenzene	21.89	91	4318	0.050	ng	95
67) m- & p-Xylene	22.10	91	14503	0.251	ng	91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	204	N.D.		
70) o-Xylene	22.71	91	5985	0.096	ng	91
71) n-Nonane	22.98	43	12219	0.276	ng	# 80
72) 1,1,2,2-Tetrachloroethane	22.42	83	55	N.D.		
74) Cumene	23.46	105	1072	N.D.		
75) alpha-Pinene	23.96	93	78	N.D.		
76) n-Propylbenzene	24.10	91	4920	N.D.		
77) 3-Ethyltoluene	24.23	105	10809	0.122	ng	100
78) 4-Ethyltoluene	24.28	105	8047	0.098	ng	98
79) 1,3,5-Trimethylbenzene	24.37	105	5463	0.073	ng	87

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4/06/08

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300819.D  
Acq On : 30 May 2008 23:54  
Operator : WA  
Sample : P0801548-003 Dil (100ml)  
Misc : ENSR SG46B-05 (-3.2,3.5)  
ALS Vial : 3 Sample Multiplier: 1

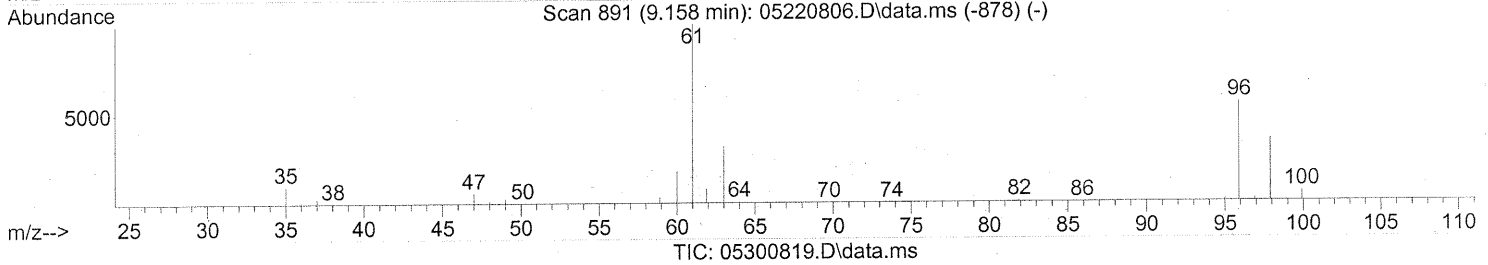
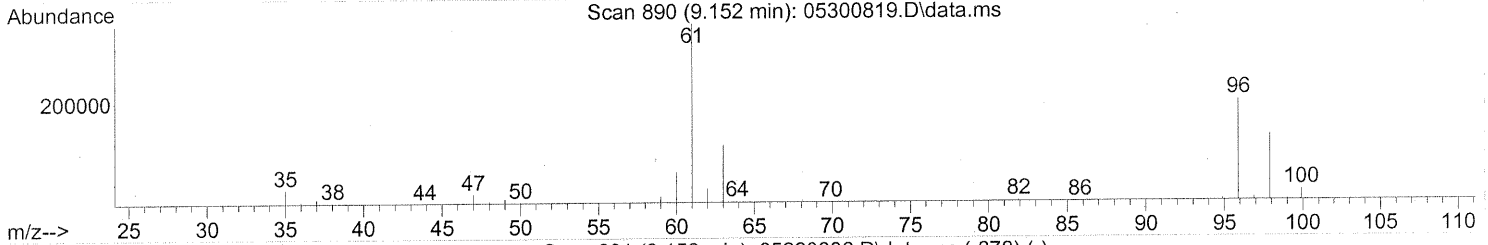
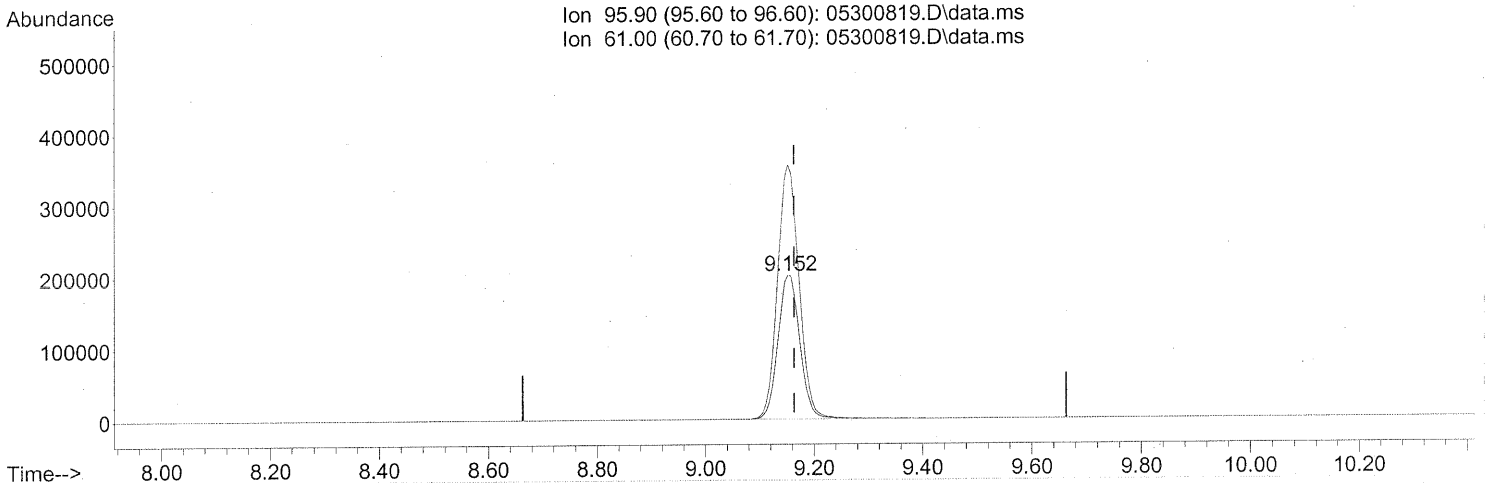
Quant Time: May 31 05:07:10 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	160	N.D.		
81) 2-Ethyltoluene	24.61	105	4931	0.055	ng	93
82) 1,2,4-Trimethylbenzene	24.88	105	14391	0.190	ng	82
83) n-Decane	24.98	57	6962	0.167	ng	86
84) Benzyl Chloride	25.04	91	265	N.D.		
85) 1,3-Dichlorobenzene	25.15	146	8595	0.182	ng	96
86) 1,4-Dichlorobenzene	25.15	146	8595	0.187	ng	96
87) sec-Butylbenzene	25.21	105	320	N.D.		
88) p-Isopropyltoluene	25.40	119	2709	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	13441	0.182	ng	86
90) 1,2-Dichlorobenzene	25.15	146	8595	0.192	ng	97
91) d-Limonene	25.56	68	558	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.49	157	209	N.D.		
93) n-Undecane	26.50	57	59357	1.362	ng	81
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.		
95) Naphthalene	27.77	128	6135	0.061	ng	98
96) n-Dodecane	27.73	57	26503	0.612	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	211	N.D.		

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

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300819.D  
 Acq On : 30 May 2008 11:54 pm  
 Operator : WA  
 Sample : P0801548-003 Dil (100ml)  
 Misc : ENSR SG46B-05 (-3.2,3.5)  
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 31 05:07:10 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.152min (-0.011) 32.43ng

response 558146

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	174.55#
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.77	0.077	0.43	0.16	0.016	
74-87-3	Chloromethane	ND	0.15	0.077	ND	0.075	0.037	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.091	0.77	0.077	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.077	ND	0.060	0.030	
74-83-9	Bromomethane	ND	0.15	0.077	ND	0.040	0.020	
75-00-3	Chloroethane	ND	0.15	0.077	ND	0.058	0.029	
64-17-5	Ethanol	3.2	7.7	0.077	1.7	4.1	0.041	J
67-64-1	Acetone	17	7.7	0.11	7.1	3.2	0.047	B
75-69-4	Trichlorofluoromethane	40	0.15	0.077	7.1	0.027	0.014	
107-13-1	Acrylonitrile	ND	0.77	0.11	ND	0.35	0.050	
75-35-4	1,1-Dichloroethene	0.077	0.15	0.077	0.019	0.039	0.019	J
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	0.77	0.11	0.098	0.25	0.038	J
75-09-2	Methylene Chloride	0.12	0.77	0.077	0.033	0.22	0.022	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	Trichlorotrifluoroethane	0.62	0.15	0.086	0.081	0.020	0.011	
75-15-0	Carbon Disulfide	4.9	0.77	0.18	1.6	0.25	0.059	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.077	ND	0.043	0.021	
108-05-4	Vinyl Acetate	5.3	7.7	0.25	1.5	2.2	0.070	J
78-93-3	2-Butanone (MEK)	5.7	0.77	0.077	1.9	0.26	0.026	
156-59-2	cis-1,2-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
108-20-3	Diisopropyl Ether	ND	0.77	0.091	ND	0.18	0.022	
67-66-3	Chloroform	24	0.15	0.091	4.9	0.032	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.079	ND	0.18	0.019	
107-06-2	1,2-Dichloroethane	ND	0.15	0.077	ND	0.038	0.019	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.33</b>	0.15	0.077	<b>0.060</b>	0.028	0.014	
71-43-2	<b>Benzene</b>	<b>5.1</b>	0.15	0.077	<b>1.6</b>	0.048	0.024	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.31</b>	0.15	0.077	<b>0.049</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.077	ND	0.033	0.017	
75-27-4	Bromodichloromethane	ND	0.15	0.077	ND	0.023	0.011	
79-01-6	<b>Trichloroethene</b>	<b>11</b>	0.15	0.077	<b>2.0</b>	0.029	0.014	
123-91-1	<b>1,4-Dioxane</b>	<b>0.28</b>	0.77	0.094	<b>0.078</b>	0.21	0.026	<b>J</b>
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	<b>n-Heptane</b>	<b>0.53</b>	0.77	0.099	<b>0.13</b>	0.19	0.024	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>8.4</b>	0.77	0.086	<b>2.1</b>	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.097	ND	0.17	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
108-88-3	<b>Toluene</b>	<b>8.6</b>	0.77	0.077	<b>2.3</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>1.3</b>	0.77	0.12	<b>0.32</b>	0.19	0.029	
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	<b>n-Octane</b>	<b>6.5</b>	0.77	0.077	<b>1.4</b>	0.16	0.016	
127-18-4	<b>Tetrachloroethene</b>	<b>150</b>	0.15	0.077	<b>22</b>	0.023	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.079	ND	0.033	0.017	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00526

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.6	0.77	0.095	0.82	0.18	0.022	
179601-23-1	m,p-Xylenes	17	0.77	0.20	4.0	0.18	0.046	
75-25-2	Bromoform	ND	0.77	0.12	ND	0.075	0.011	
100-42-5	Styrene	0.24	0.77	0.12	0.057	0.18	0.028	J
95-47-6	o-Xylene	5.3	0.77	0.097	1.2	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.099	ND	0.022	0.014	
98-82-8	Cumene	0.24	0.77	0.086	0.049	0.16	0.018	J
103-65-1	n-Propylbenzene	0.68	0.77	0.080	0.14	0.16	0.016	J
622-96-8	4-Ethyltoluene	1.0	0.77	0.088	0.21	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	1.2	0.77	0.092	0.25	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.14	0.77	0.11	0.029	0.16	0.023	J
95-63-6	1,2,4-Trimethylbenzene	2.6	0.77	0.11	0.53	0.16	0.022	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.095	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	2.7	0.15	0.086	0.45	0.026	0.014	
135-98-8	sec-Butylbenzene	ND	0.77	0.089	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	6.7	0.77	0.10	1.2	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.080	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	0.97	0.31	0.11	0.18	0.059	0.022	
87-68-3	Hexachlorobutadiene	0.37	0.15	0.14	0.035	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.38	0.31	0.077	0.069	0.056	0.014	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

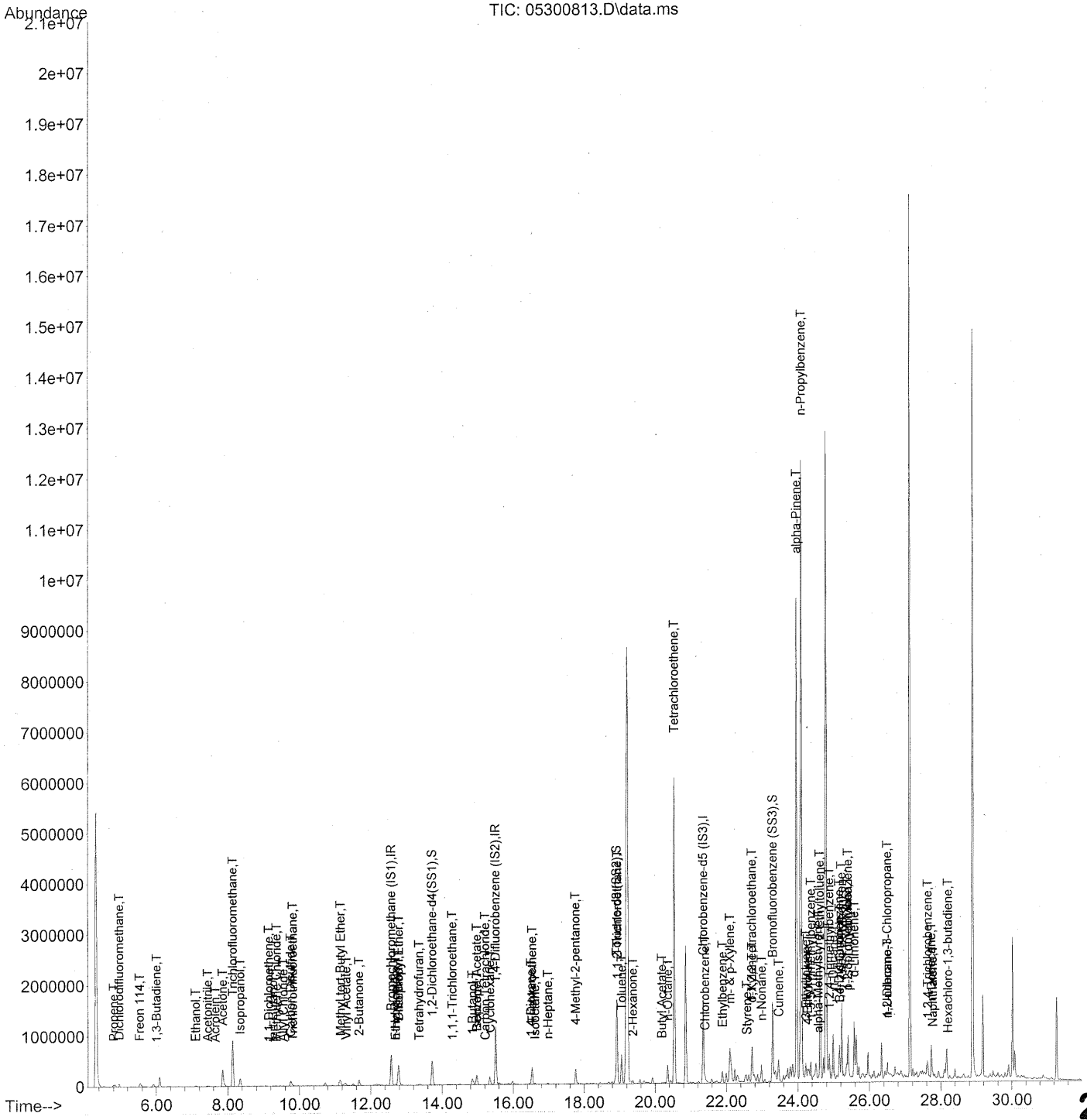
Verified By:         

Date: 6/10/08

**295**

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	316100	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1368107	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	638908	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	505118	23.062	ng	0.00
Spiked Amount			Recovery =	92.24%		
57) Toluene-d8 (SS2)	18.92	98	1439626	25.089	ng	0.00
Spiked Amount			Recovery =	100.36%		
73) Bromofluorobenzene (SS3)	23.29	174	613988	26.313	ng	0.00
Spiked Amount			Recovery =	105.24%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	18777	0.752	ng	82
3) Dichlorodifluoromethane	4.97	85	63273	1.375	ng	100
4) Chloromethane	5.29	50	340	N.D.		
5) Freon 114	5.53	135	1325	0.059	ng	80
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.01	54	1934	0.087	ng	56
8) Bromomethane	6.50	94	650	N.D.		
9) Chloroethane	6.82	64	78	N.D.		
10) Ethanol	7.10	45	34641m	2.084	ng	
11) Acetonitrile	7.43	41	25029	0.521	ng	81
12) Acrolein	7.64	56	5300	0.446	ng	98
13) Acetone	7.85	58	186495	10.960	ng	74
14) Trichlorofluoromethane	8.14	101	1015808	25.730	ng	100
15) Isopropanol	8.34	45	76865	1.416	ng	61
16) Acrylonitrile	8.64	53	769	N.D.		
17) 1,1-Dichloroethene	9.15	96	861	0.050	ng	59
18) tert-Butanol	9.27	59	8887m	0.193	ng	
19) Methylene Chloride	9.36	84	1423	0.075	ng	97
20) Allyl Chloride	9.55	41	1366	<del>0.054</del>	ng	44
21) Trichlorotrifluoroethane	9.81	151	7243	0.403	ng	92
22) Carbon Disulfide	9.76	76	228154	3.162	ng	99
23) trans-1,2-Dichloroethene	10.72	61	861	N.D.		
24) 1,1-Dichloroethane	11.10	63	174	N.D.		
25) Methyl tert-Butyl Ether	11.16	73	2211	<del>0.040</del>	ng	73
26) Vinyl Acetate	11.31	86	10744	3.416	ng	1
27) 2-Butanone	11.67	72	46064	3.709	ng	89
28) cis-1,2-Dichloroethene	12.15	61	53	N.D.		
29) Diisopropyl Ether	12.78	87	46600	<del>3.062</del>	ng	1
30) Ethyl Acetate	12.69	61	3084	0.460	ng	67
31) n-Hexane	12.70	57	6005	0.178	ng	96

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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	451374	15.659	ng	100
34) Tetrahydrofuran	13.36	72	4238	0.357	ng #	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.74	62	310	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	6621	0.213	ng	94
39) Isopropyl Acetate	14.97	61	1614	0.138	ng #	1
40) 1-Butanol	14.85	56	122441	6.511	ng	88
41) Benzene	14.98	78	235538	3.288	ng	99
42) Carbon Tetrachloride	15.21	117	5582	0.202	ng	97
43) Cyclohexane	15.35	84	9988	0.358	ng #	1
44) tert-Amyl Methyl Ether	15.88	73	373	N.D.	✓	
45) 1,2-Dichloropropane	15.87	63	163	N.D.	✓	
46) Bromodichloromethane	16.44	83	182	N.D.	✓	
47) Trichloroethene	16.53	130	154949	7.051	ng	100
48) 1,4-Dioxane	16.50	88	2473	0.183	ng	94
49) Isooctane	16.62	57	18774	0.229	ng #	46
50) Methyl Methacrylate	16.72	100	226	N.D.	✓	
51) n-Heptane	16.98	71	6497	0.341	ng #	75
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.76	58	103875	5.462	ng	83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	125943	<del>7.115</del>	ng NR	7
58) Toluene	19.06	91	435622	5.585	ng	97
59) 2-Hexanone	19.37	43	46386	0.863	ng	78
60) Dibromochloromethane	19.62	129	62	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	8614	0.158	ng	81
63) n-Octane	20.35	57	72675	4.213	ng	89
64) Tetrachloroethene	20.55	166	2273767	98.518	ng	99
65) Chlorobenzene	21.40	112	5514	<del>0.105</del>	ng NR	95
66) Ethylbenzene	21.89	91	206694	2.311	ng	94
67) m- & p-Xylene	22.10	91	673220	11.254	ng	92
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	8425	0.158	ng	88
70) o-Xylene	22.71	91	224364	3.474	ng	93
71) n-Nonane	22.98	43	165843	3.617	ng	82
72) 1,1,2,2-Tetrachloroethane	22.71	83	4028	<del>0.150</del>	ng NR	17
74) Cumene	23.46	105	13336	0.155	ng	96
75) alpha-Pinene	23.97	93	4518682	101.624	ng	99
76) n-Propylbenzene	24.10	91	48489	0.443	ng #	1
77) 3-Ethyltoluene	24.23	105	121043	1.322	ng	98
78) 4-Ethyltoluene	24.28	105	56045	0.657	ng	97
79) 1,3,5-Trimethylbenzene	24.37	105	61633	0.799	ng	98

2006/04/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	3837	0.092 ng	#	69
81) 2-Ethyltoluene	24.61	105	78487	0.846 ng		81
82) 1,2,4-Trimethylbenzene	24.88	105	133148	1.696 ng		88
83) n-Decane	24.98	57	331844	7.684 ng		81
84) Benzyl Chloride	25.17	91	94269	<del>1.790 ng</del>	#	53
85) 1,3-Dichlorobenzene	25.08	146	750	N.D. ✓		
86) 1,4-Dichlorobenzene	25.16	146	83623	1.758 ng		98
87) sec-Butylbenzene	25.22	105	4956	<del>0.049 ng</del>	#	80
88) p-Isopropyltoluene	25.40	119	361731	4.380 ng		89
89) 1,2,3-Trimethylbenzene	25.40	105	78334	1.020 ng		74
90) 1,2-Dichlorobenzene	25.57	146	541	N.D. ✓		
91) d-Limonene	25.58	68	285561	9.132 ng		98
92) 1,2-Dibromo-3-Chloropr...	26.50	157	651	<del>0.045 ng</del>	#	1
93) n-Undecane	26.50	57	177773	3.933 ng		92
94) 1,2,4-Trichlorobenzene	27.63	180	2369	<del>0.069 ng</del>		86
95) Naphthalene	27.77	128	65012	0.628 ng		91
96) n-Dodecane	27.73	57	219290	4.879 ng		82
97) Hexachloro-1,3-butadiene	28.19	225	5519	0.243 ng		92

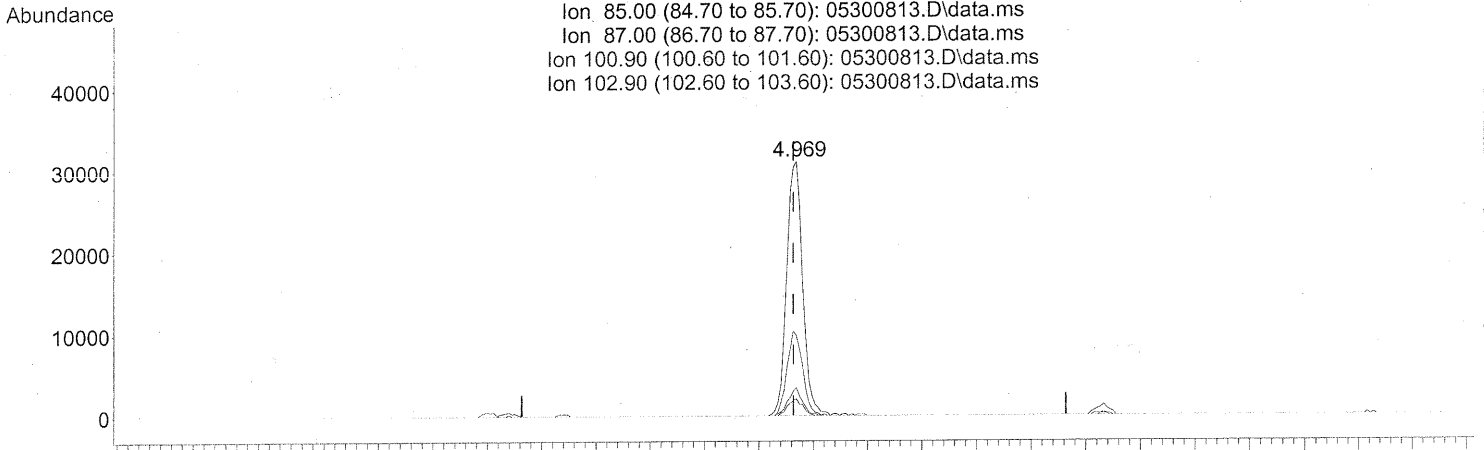
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*For 6/04/08*

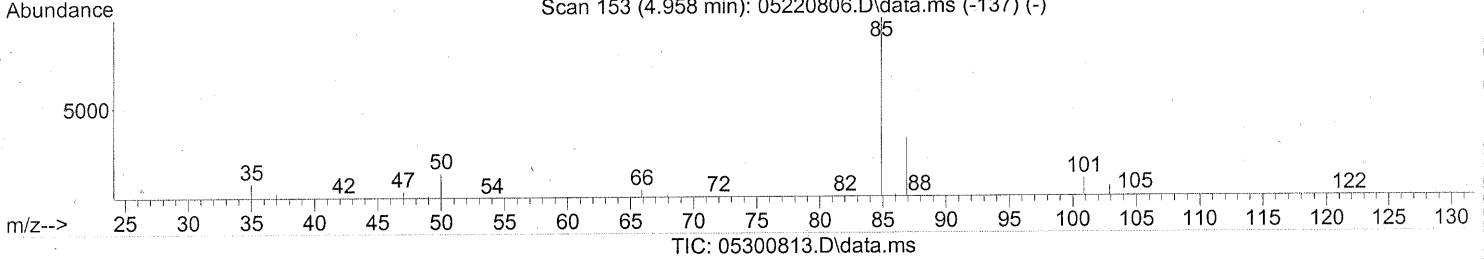
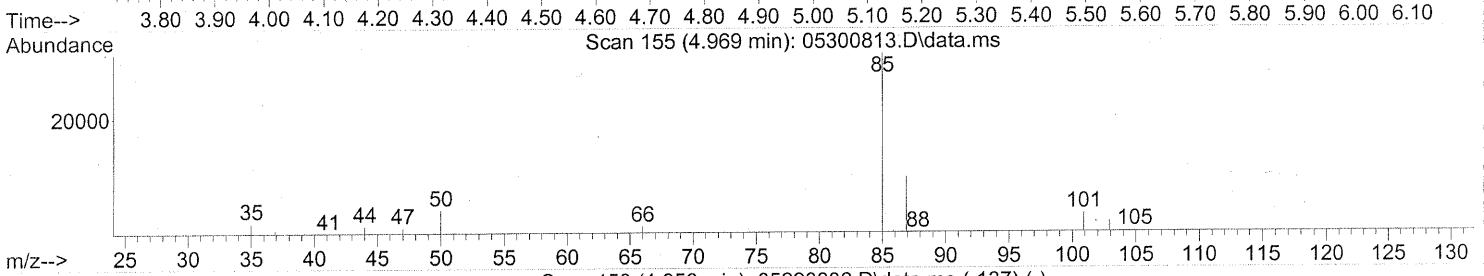
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 85.00 (84.70 to 85.70): 05300813.D\data.ms  
 Ion 87.00 (86.70 to 87.70): 05300813.D\data.ms  
 Ion 100.90 (100.60 to 101.60): 05300813.D\data.ms  
 Ion 102.90 (102.60 to 103.60): 05300813.D\data.ms



(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.38ng

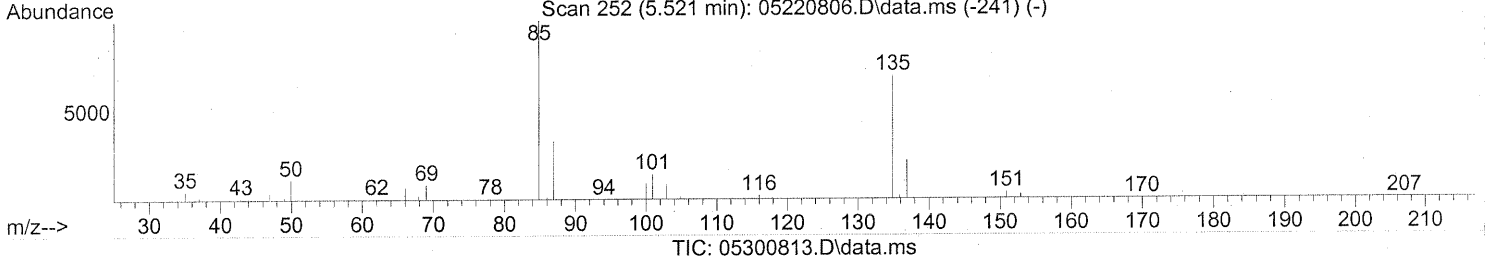
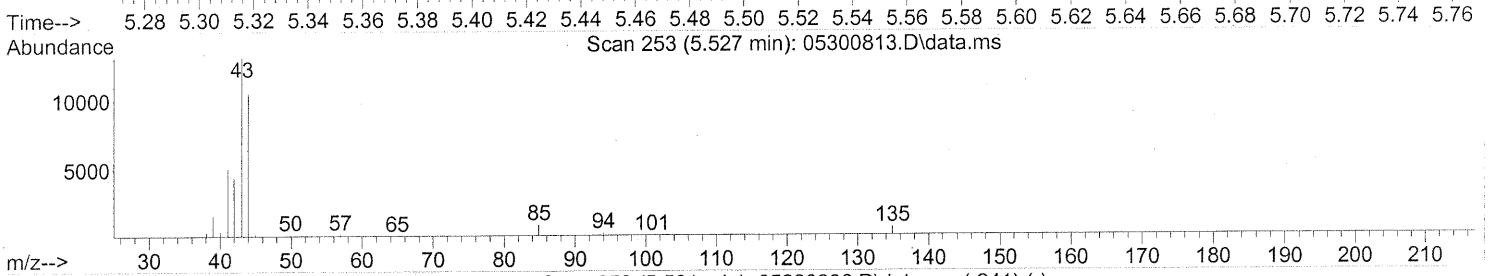
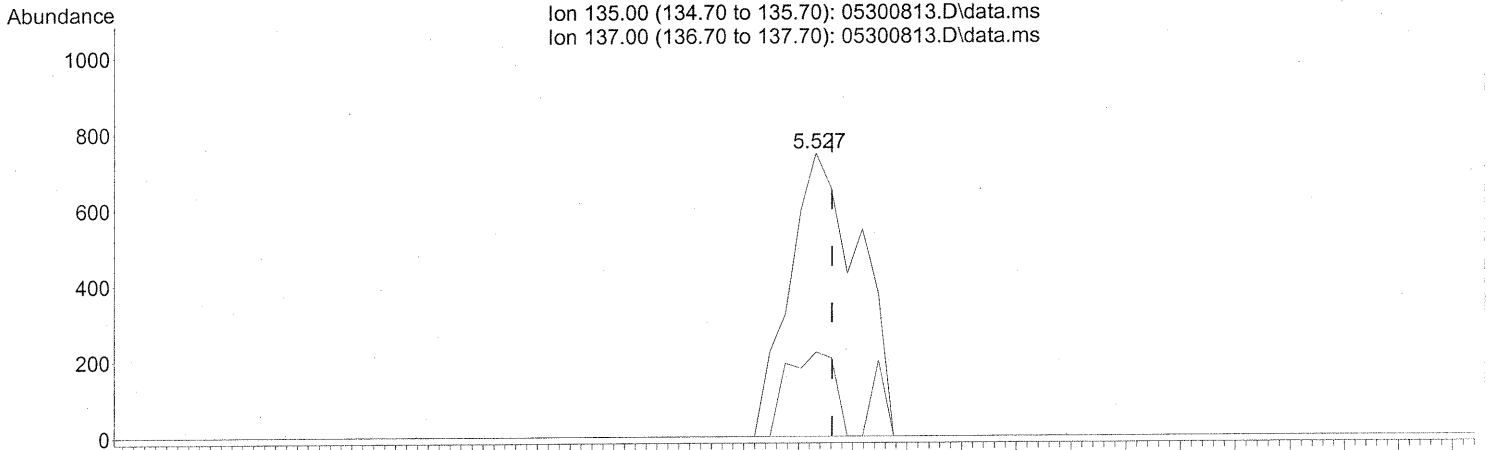
response 63273

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.62
100.90	9.30	9.68
102.90	6.00	6.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(5) Freon 114 (T)  
5.527min (-0.006) 0.06ng

**BEFORE SUBTRACTION**

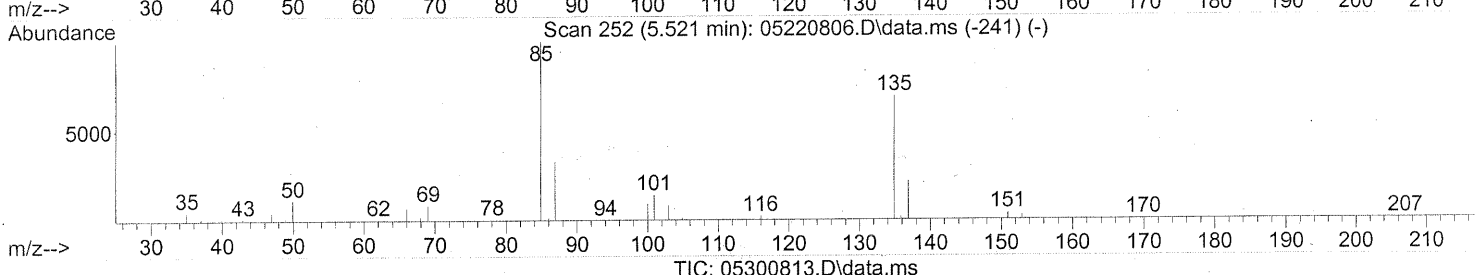
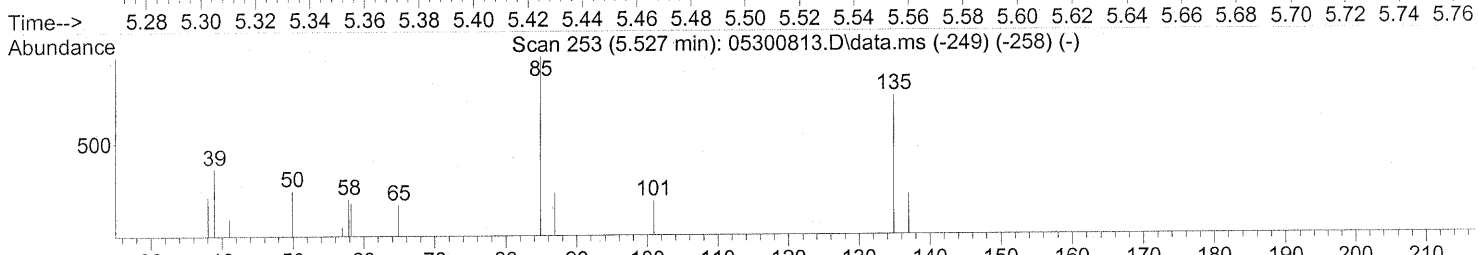
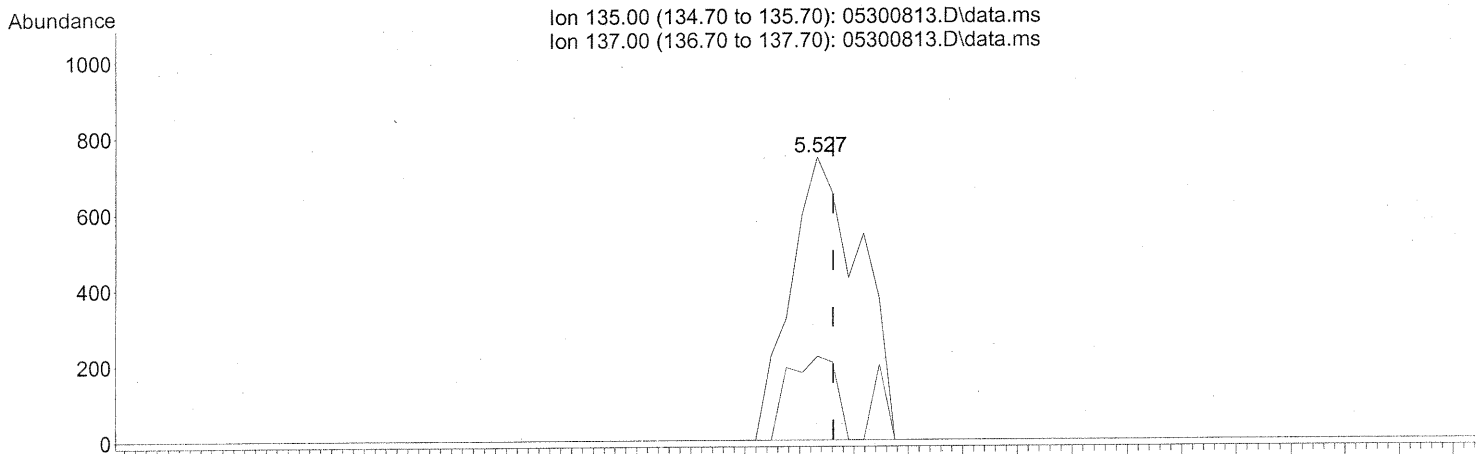
response 1325

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	20.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.527min (-0.006) 0.06ng  
 response 1325

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	20.53
0.00	0.00	0.00
0.00	0.00	0.00

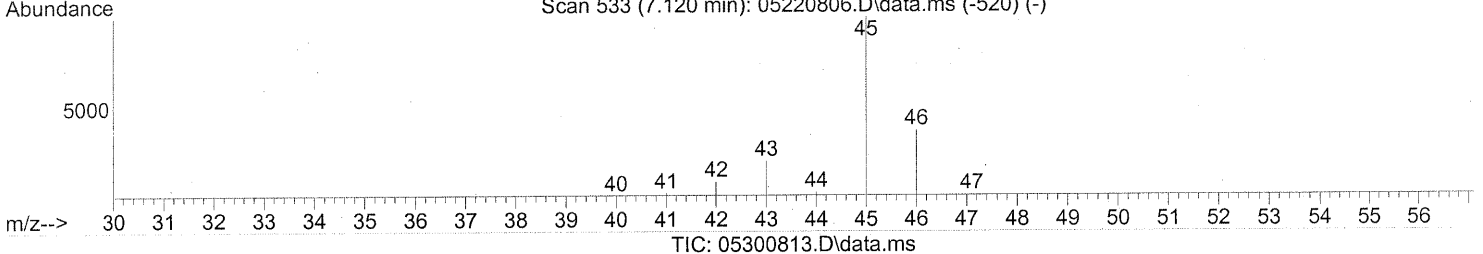
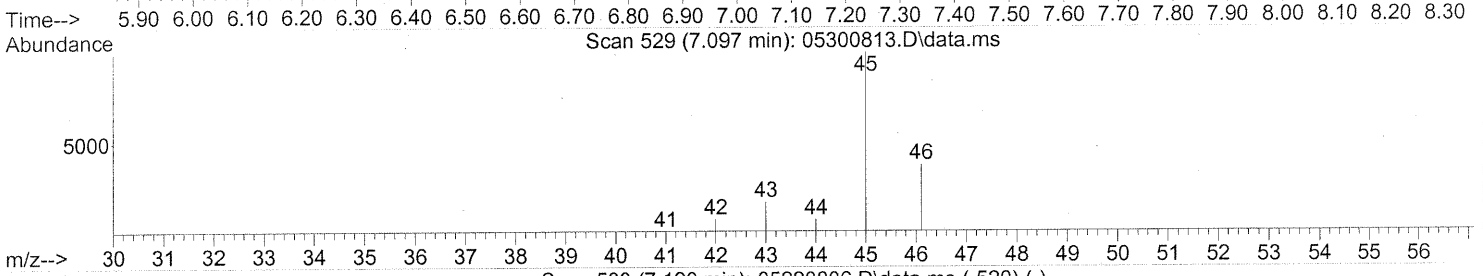
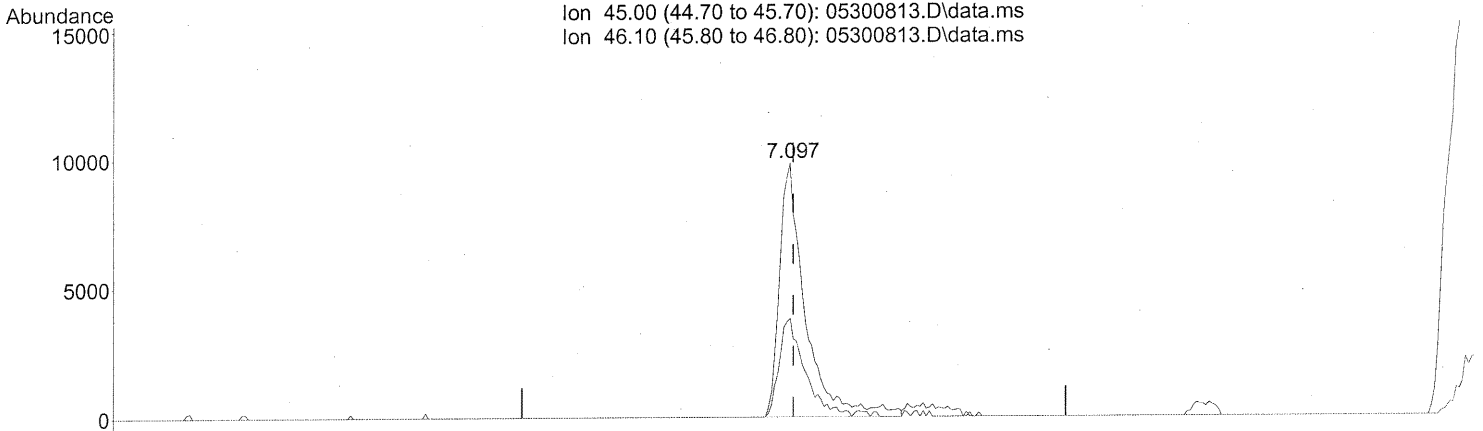
AFTER SUBTRACTION

*Podalos*  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 18:28:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.097min (-0.006) 1.95ng  
response 32377

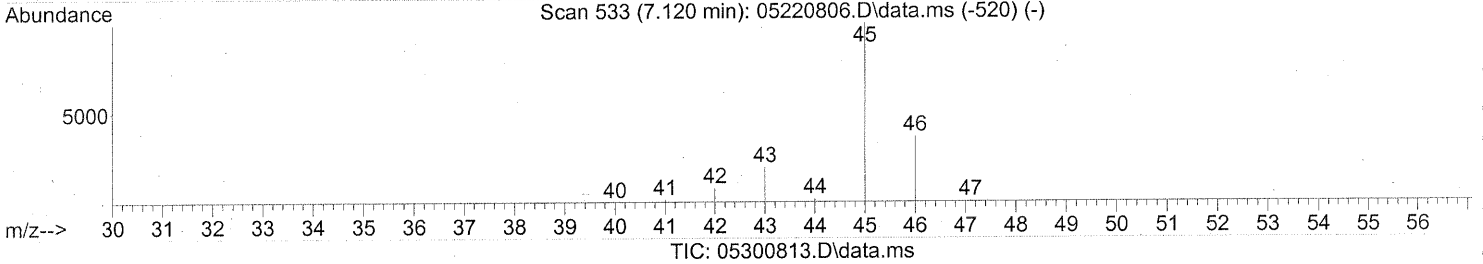
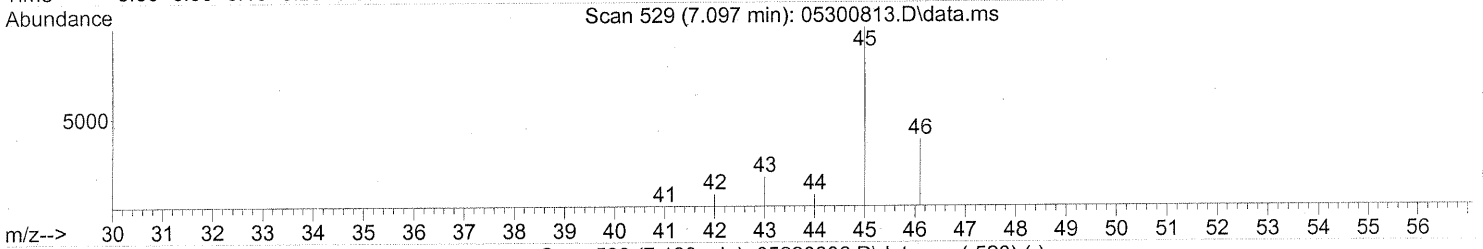
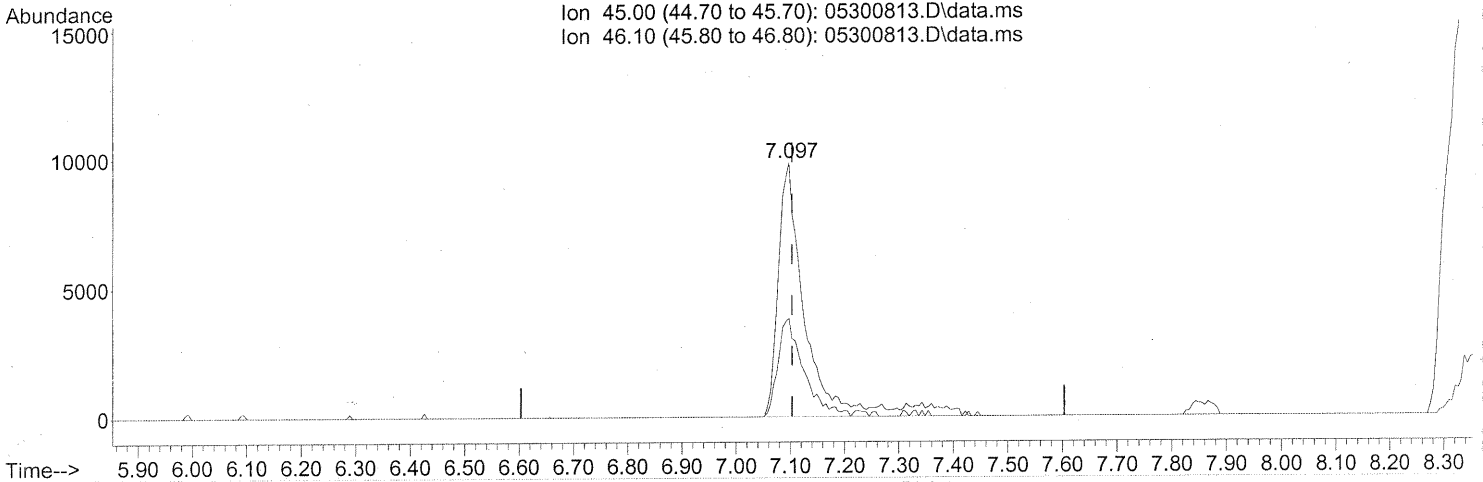
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.73
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 18:28:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 2.08ng m

response 34641

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.19
0.00	0.00	0.00
0.00	0.00	0.00

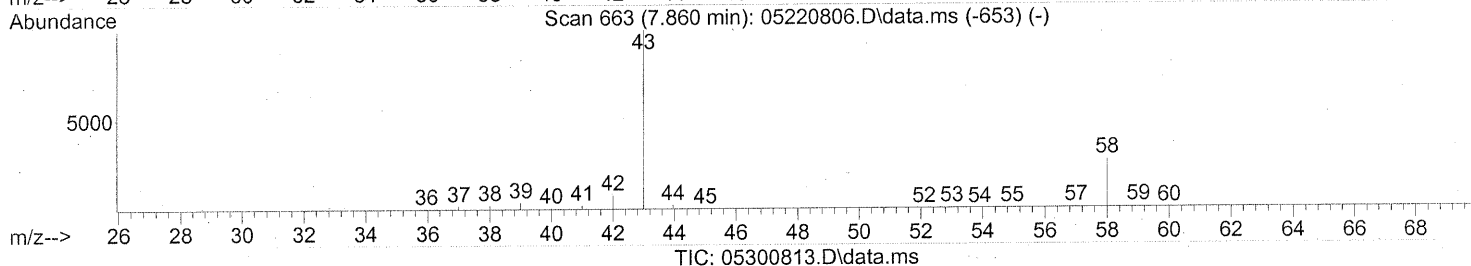
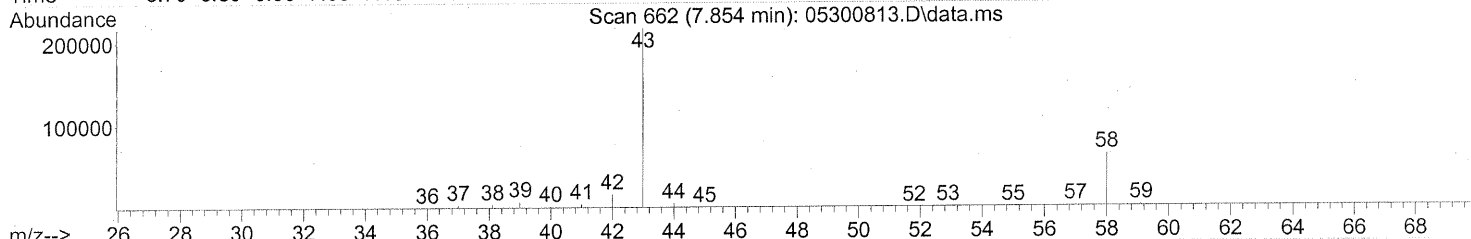
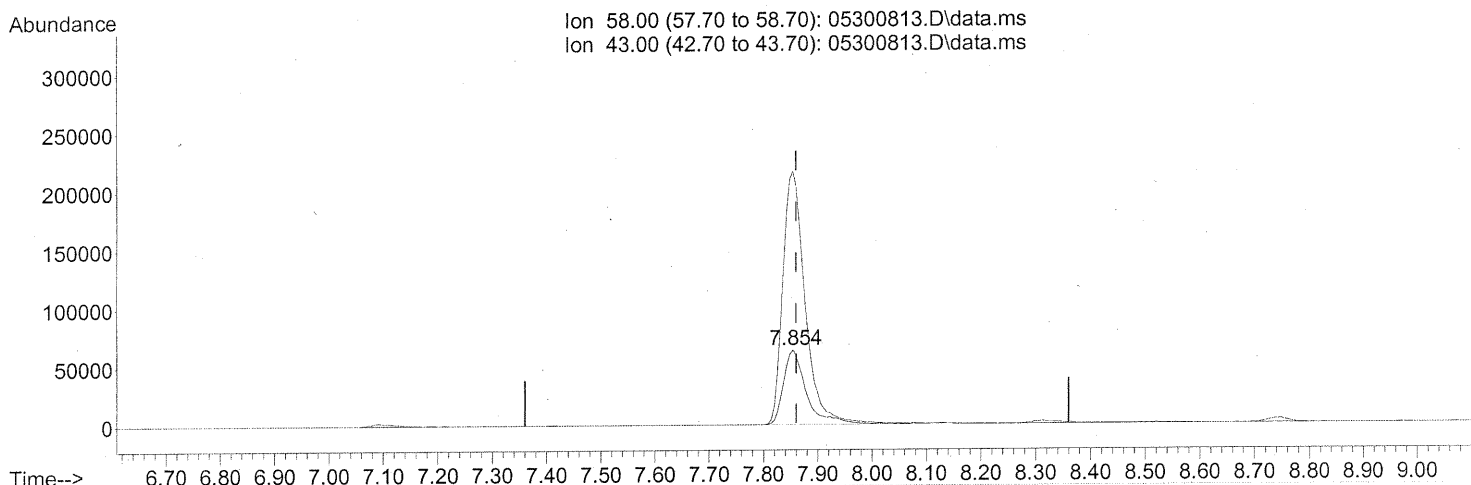
ADDED TAILING  
 6/04/08  
 6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 10.96ng

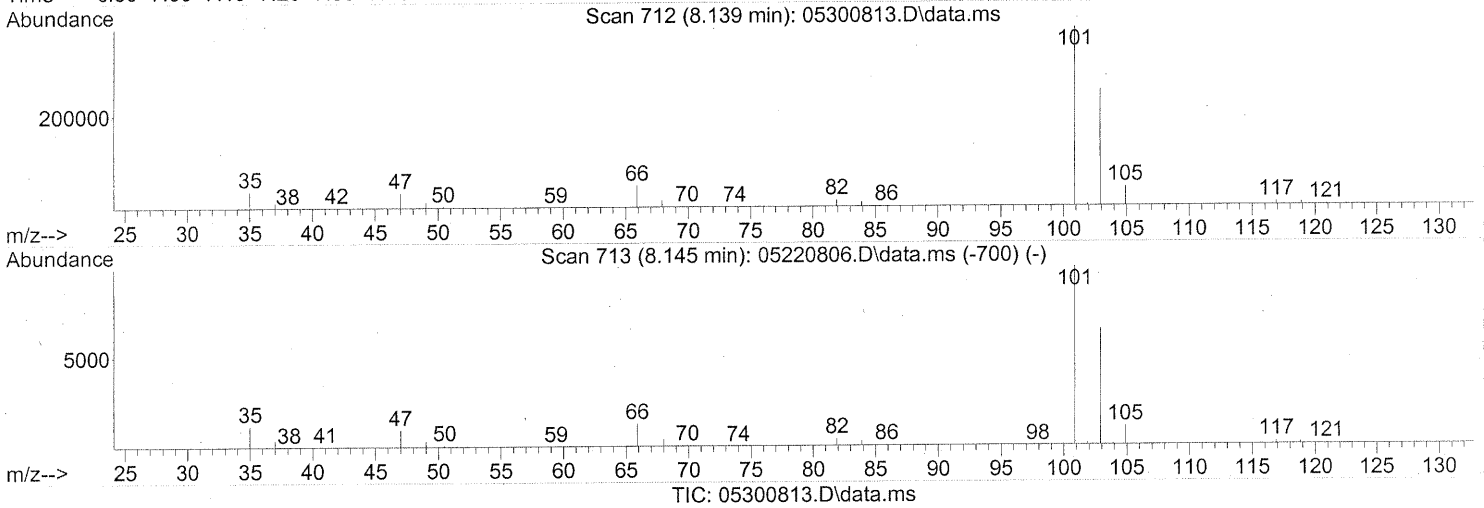
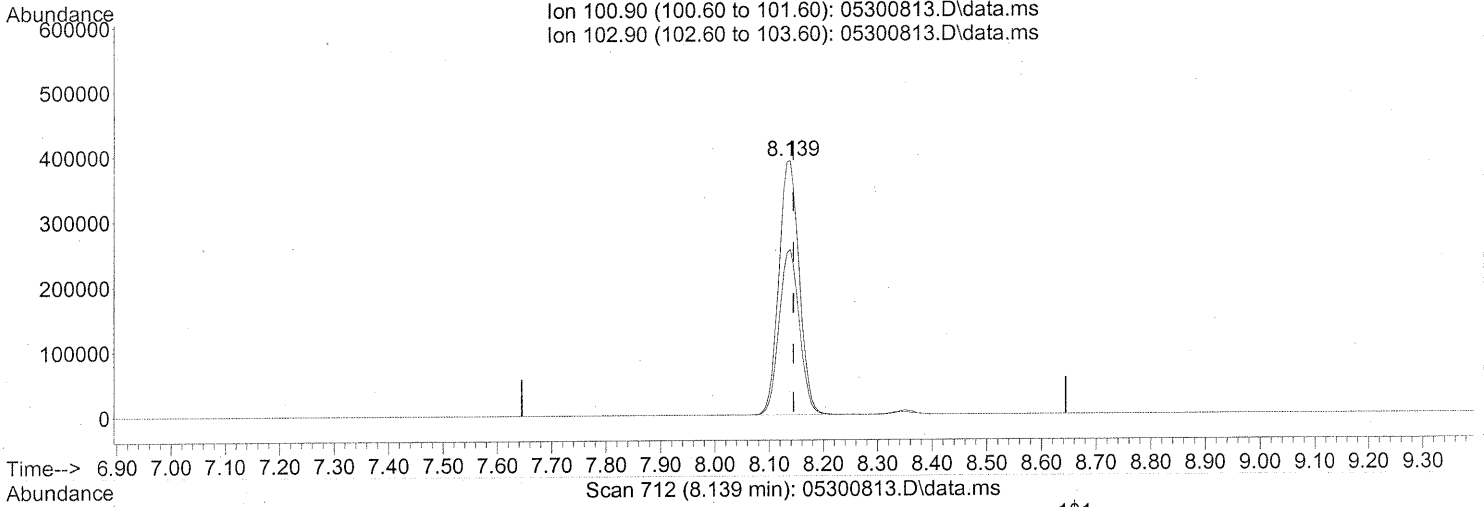
response 186495

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	332.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 25.73ng

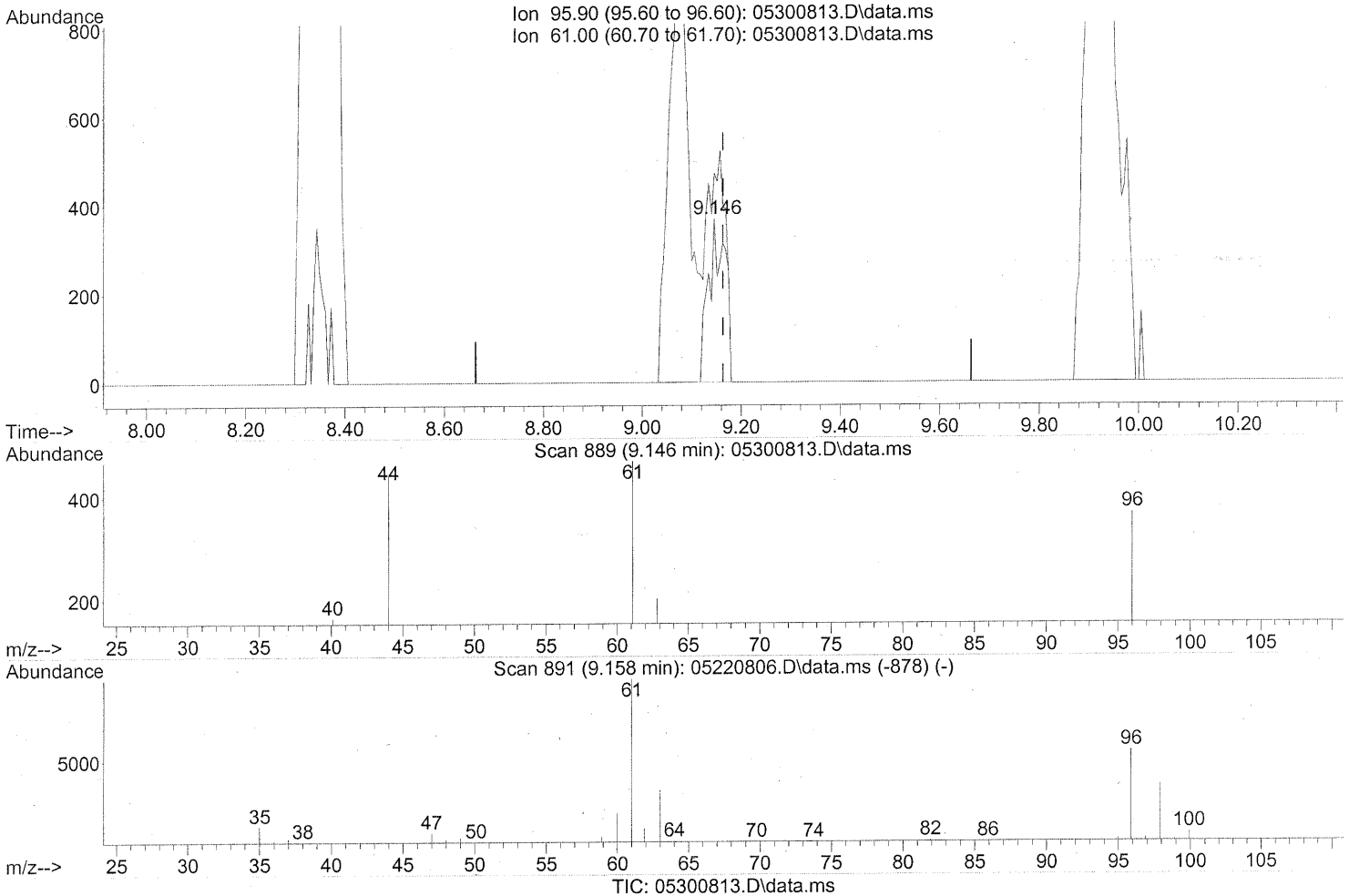
response 1015808

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.146min (-0.017) 0.05ng

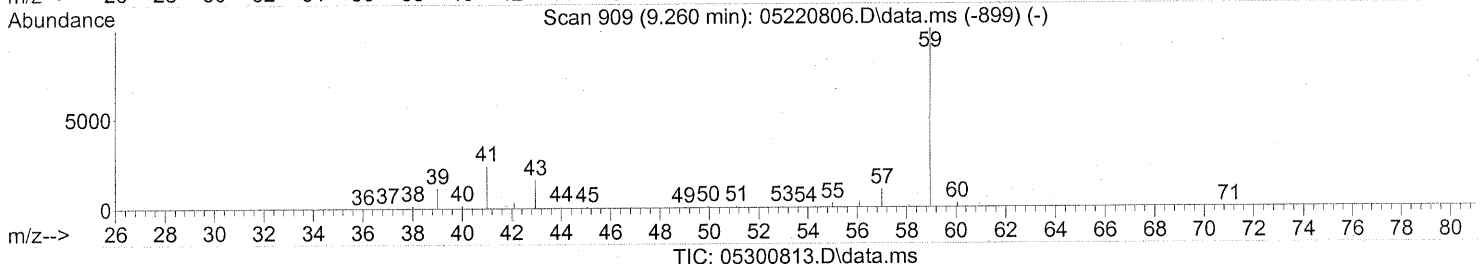
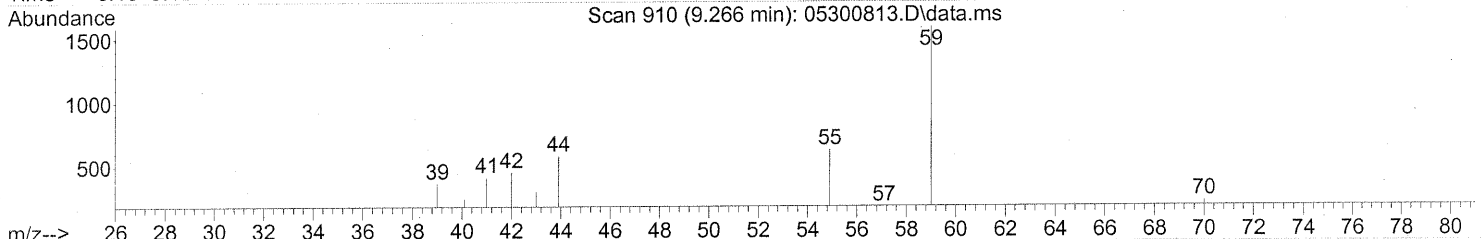
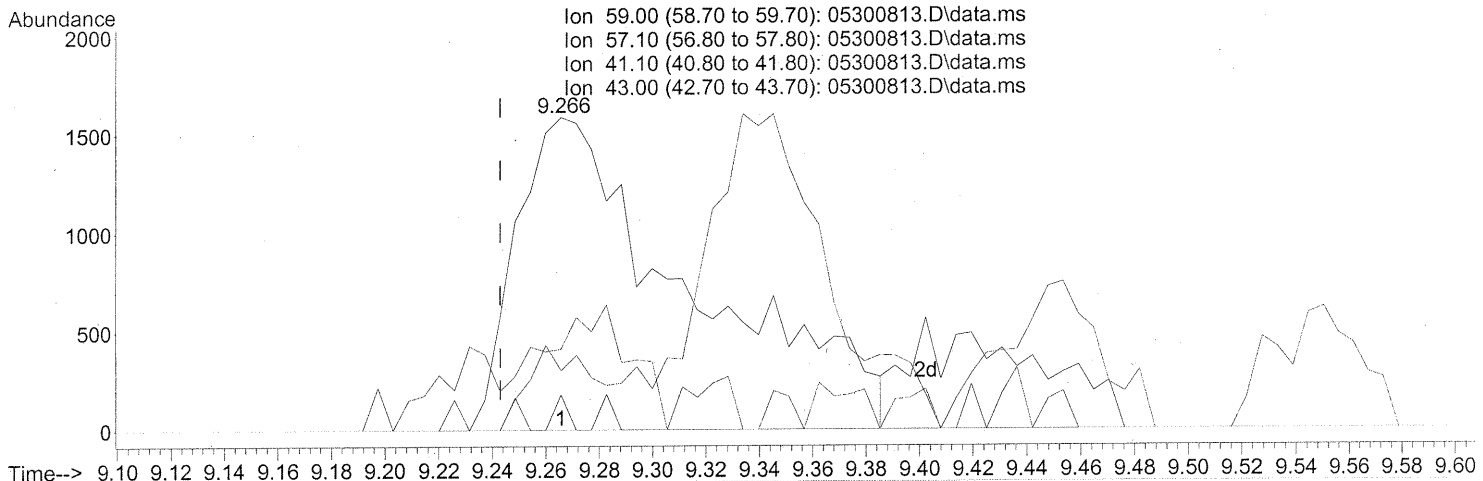
response 861

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	146.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:02:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.15ng  
 response 7142

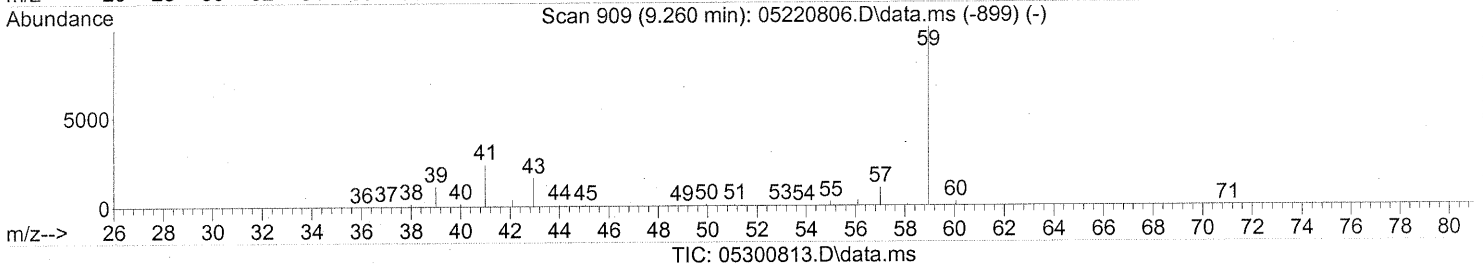
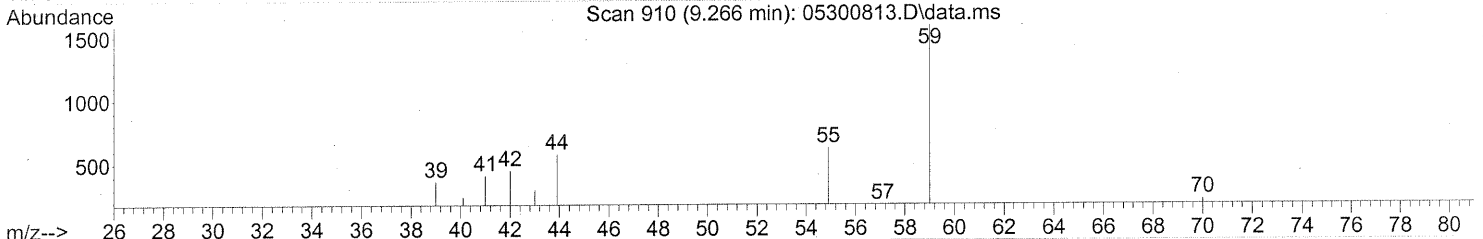
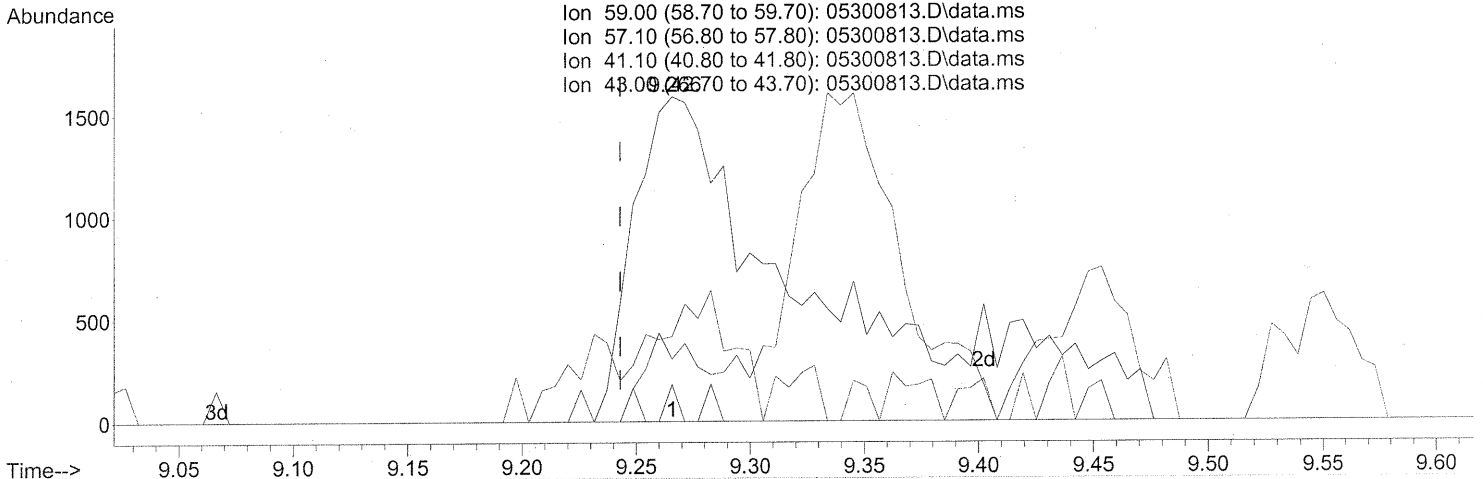
TAILING

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.87
41.10	20.10	0.00#
43.00	12.30	10.85

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.19ng m  
 response 8887

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.70
41.10	20.10	0.00#
43.00	12.30	8.72

ADDED TAILING

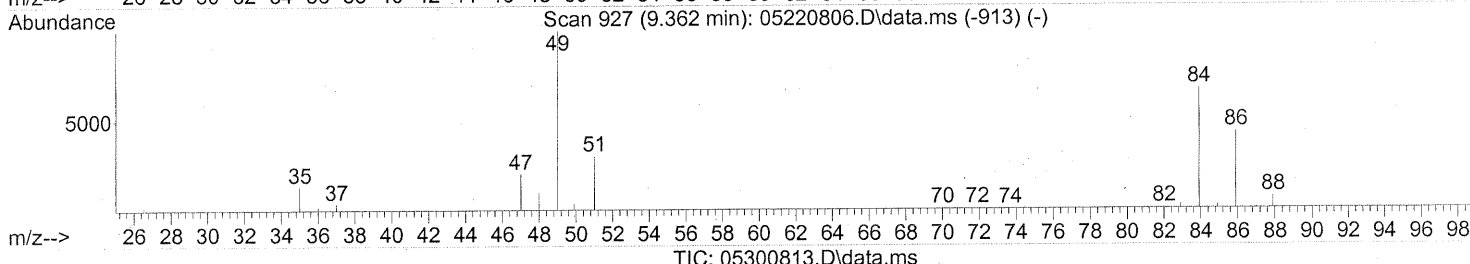
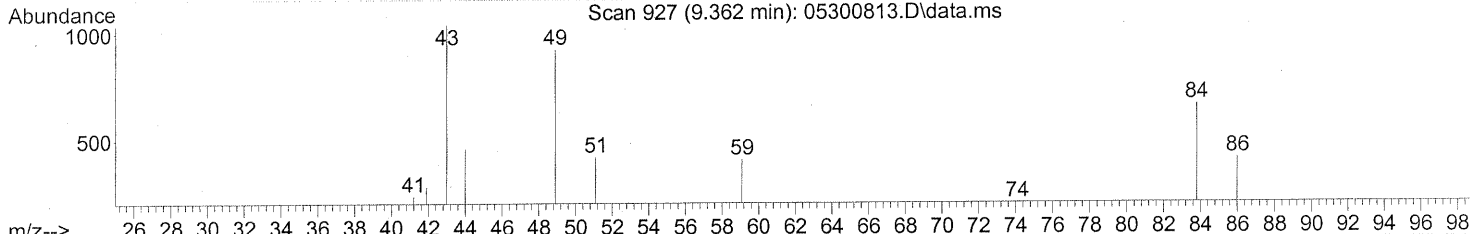
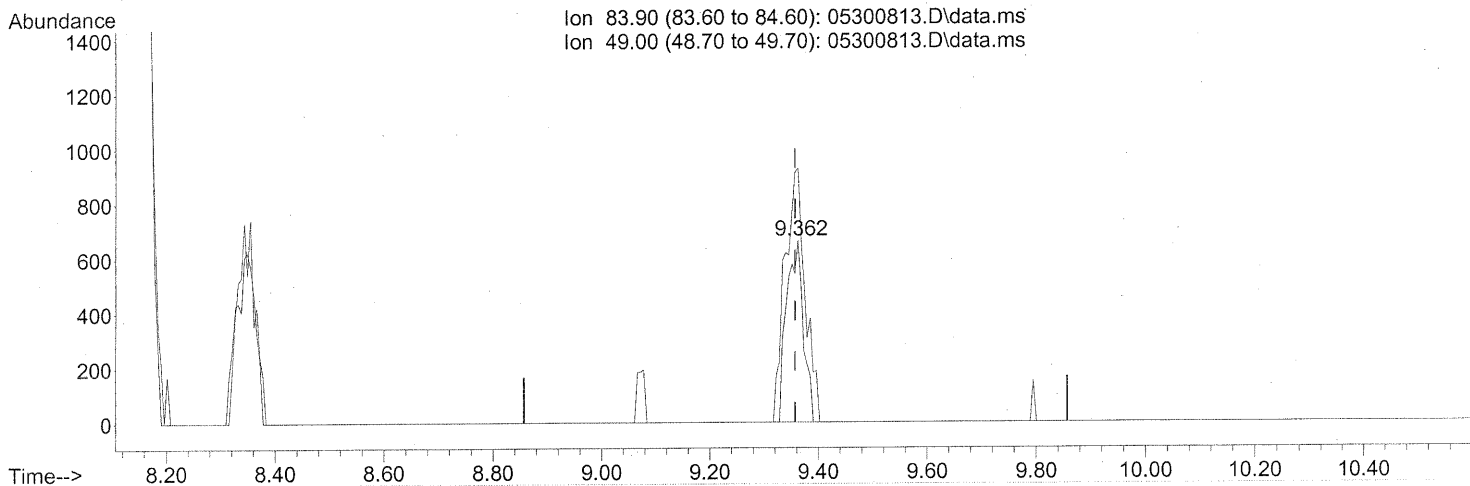
6/4/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.07ng

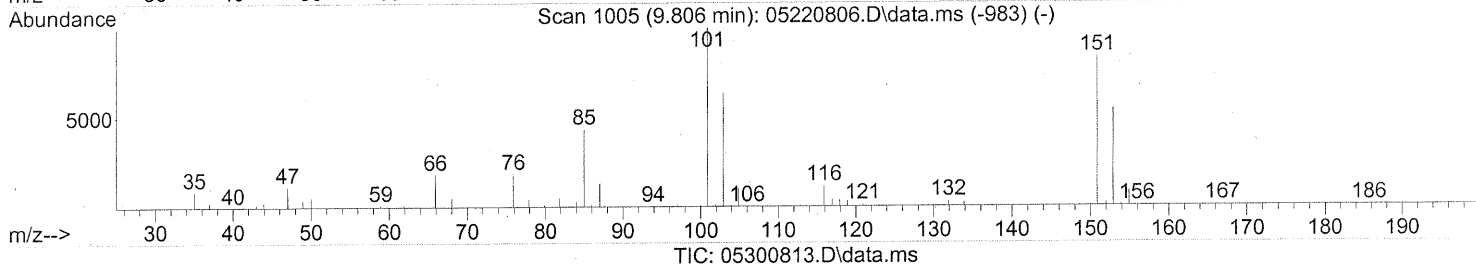
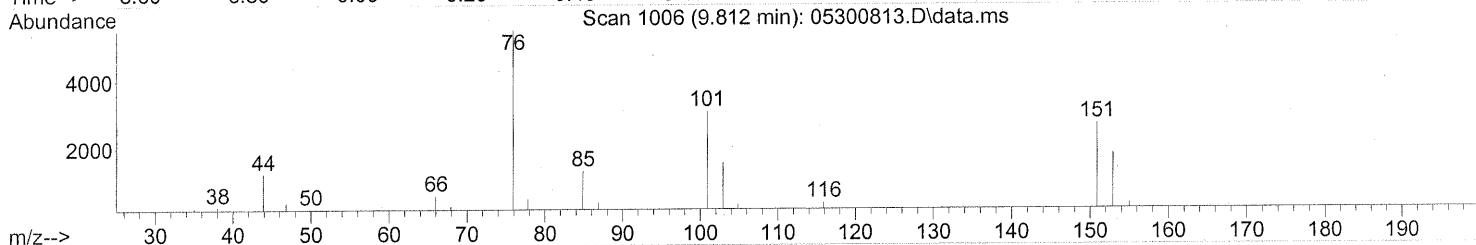
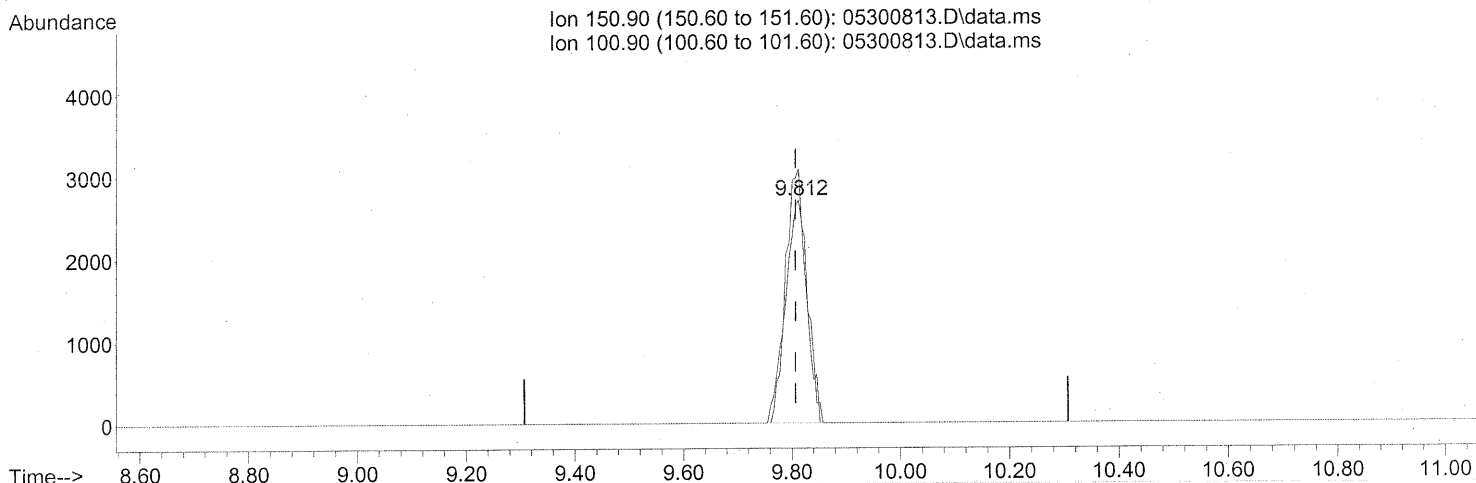
response 1423

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	169.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.40ng

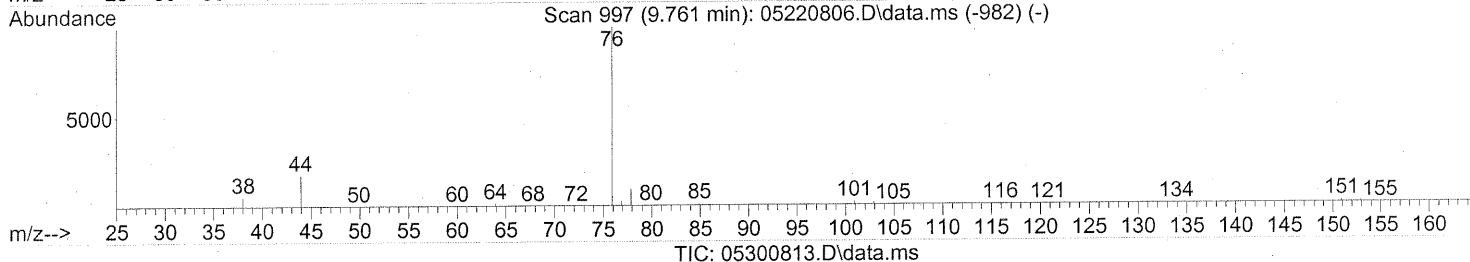
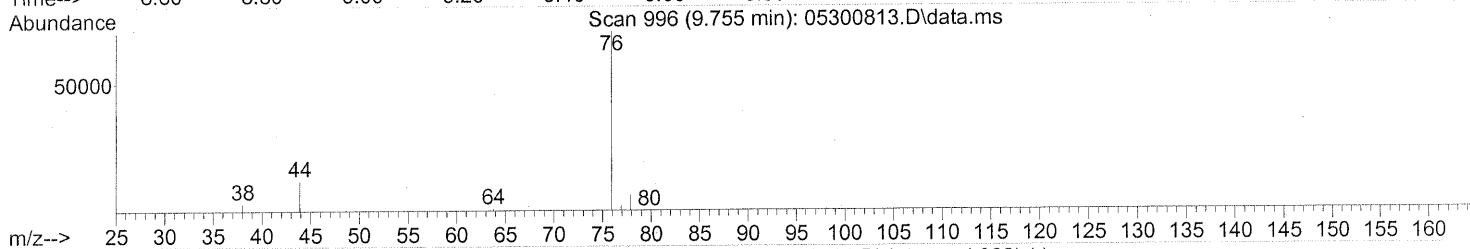
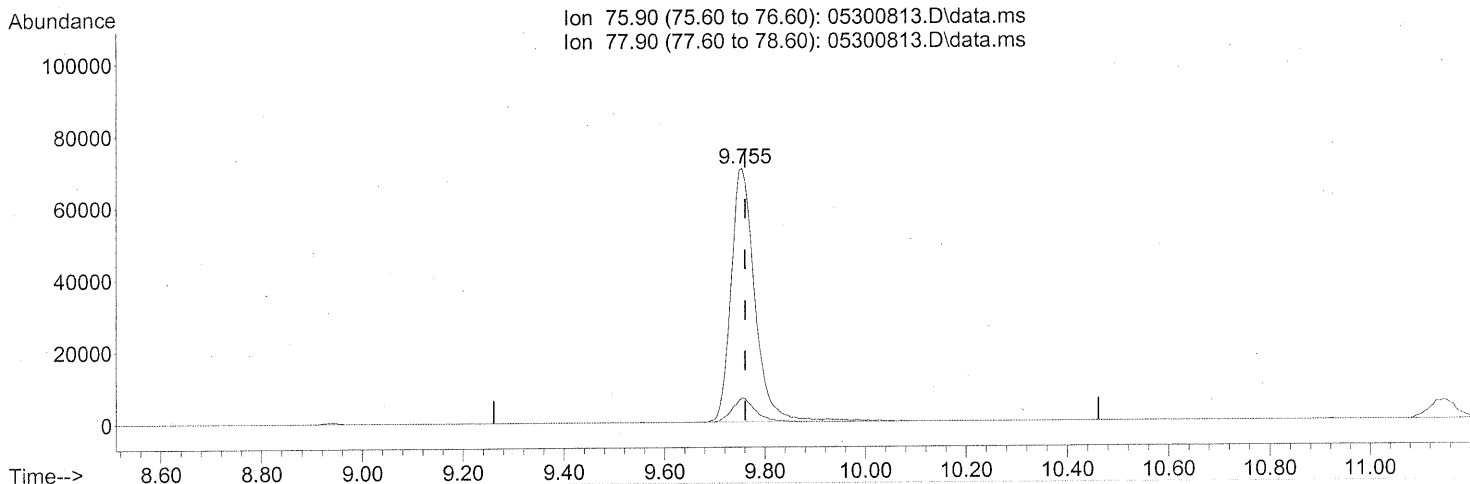
response 7243

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	117.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 3.16ng

response 228154

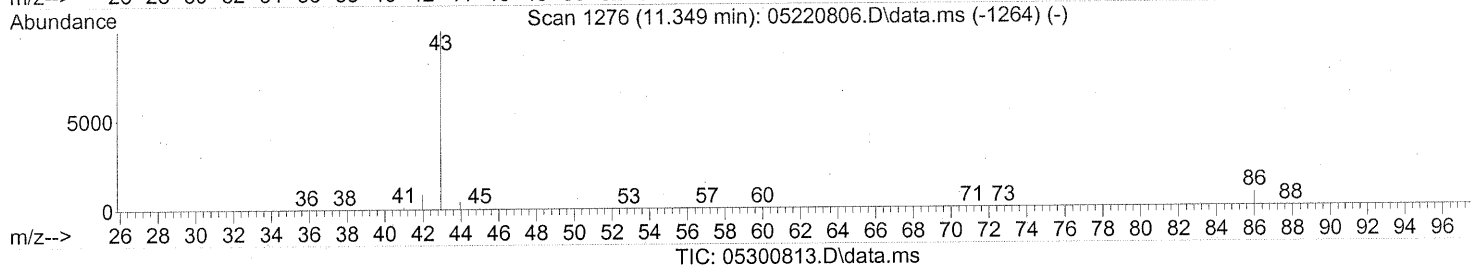
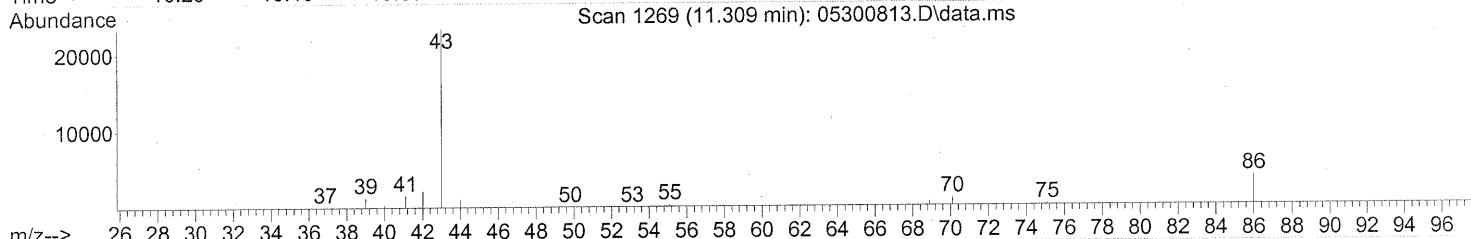
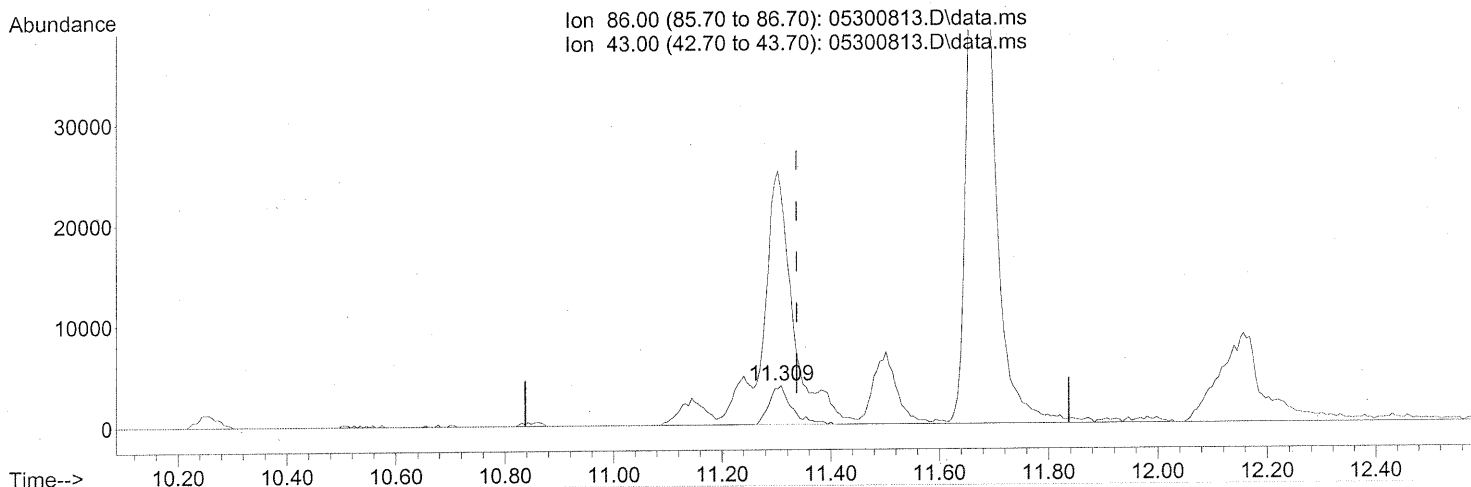
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.95
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.309min (-0.028) 3.42ng

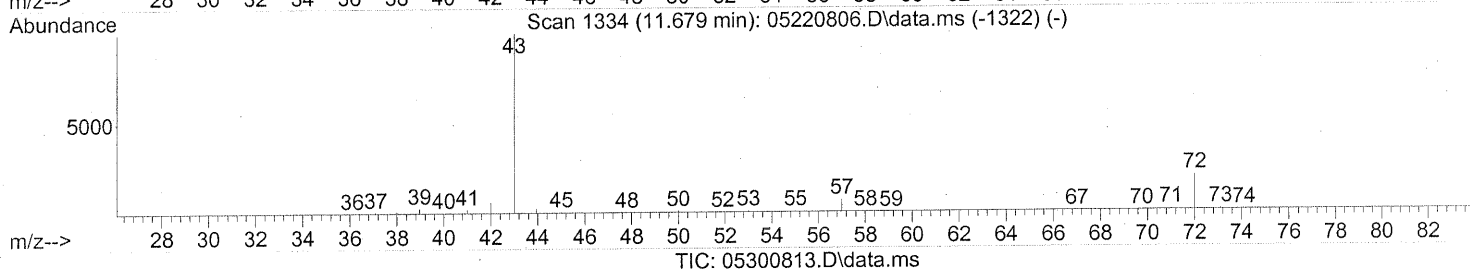
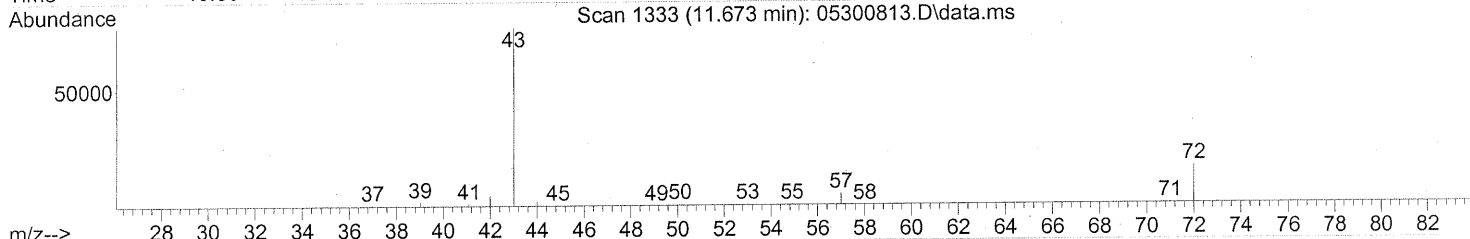
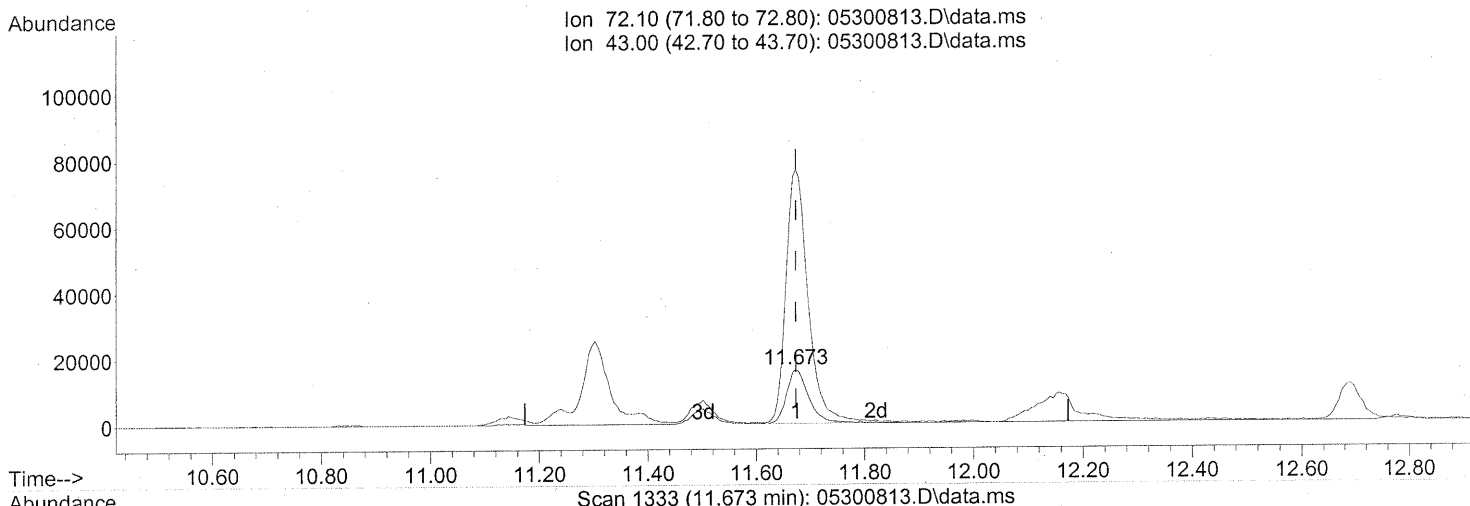
response 10744

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	768.48#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.673min (-0.000) 3.71ng

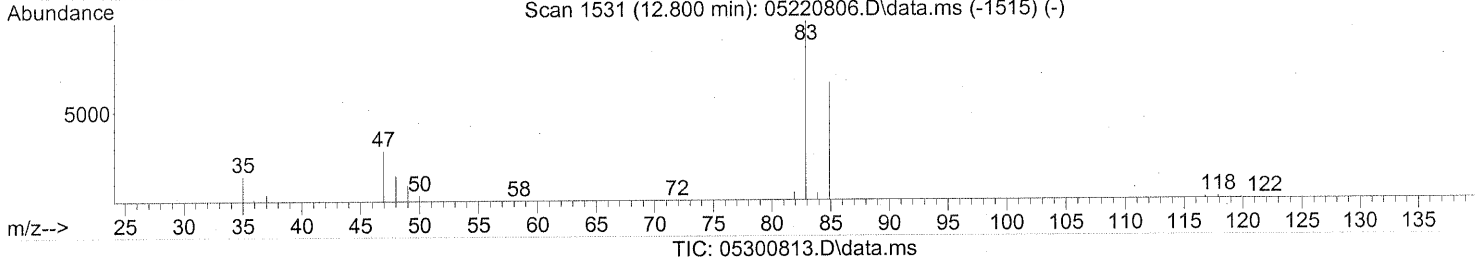
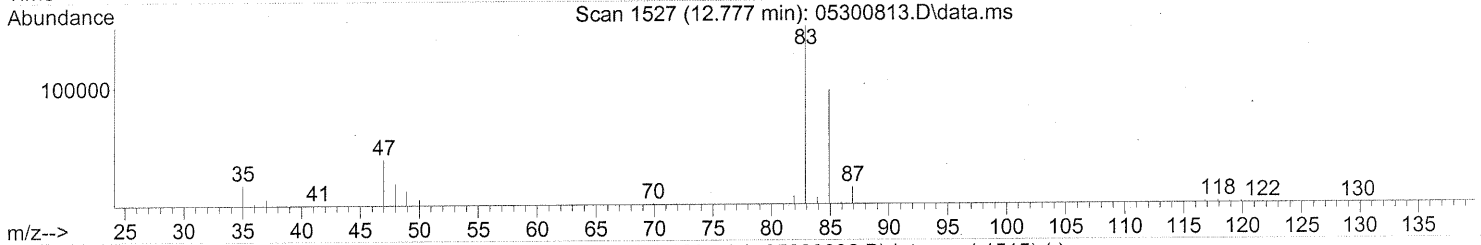
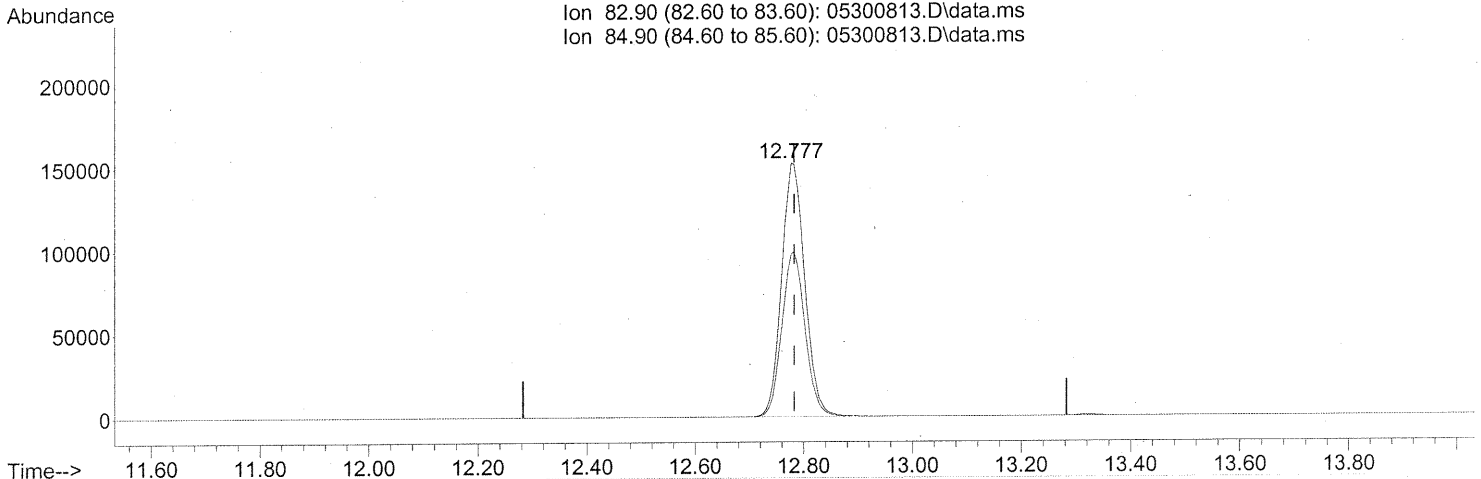
response 46064

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	477.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 15.66ng

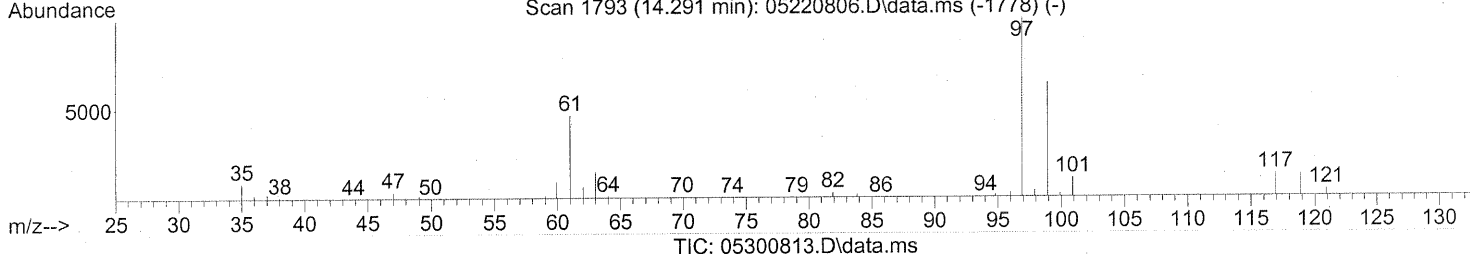
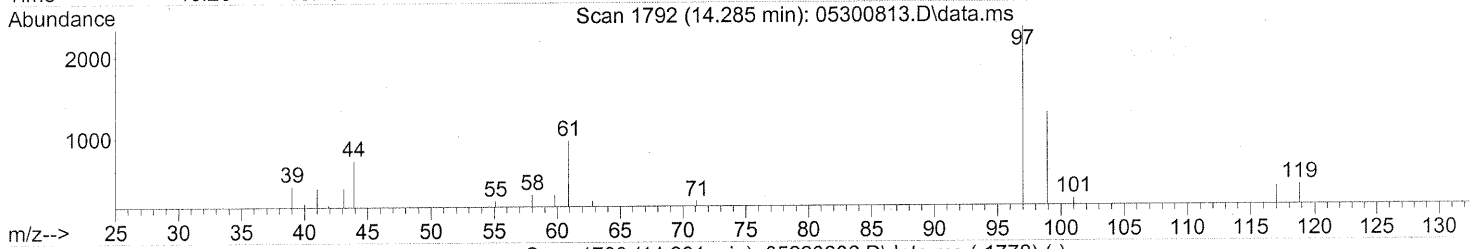
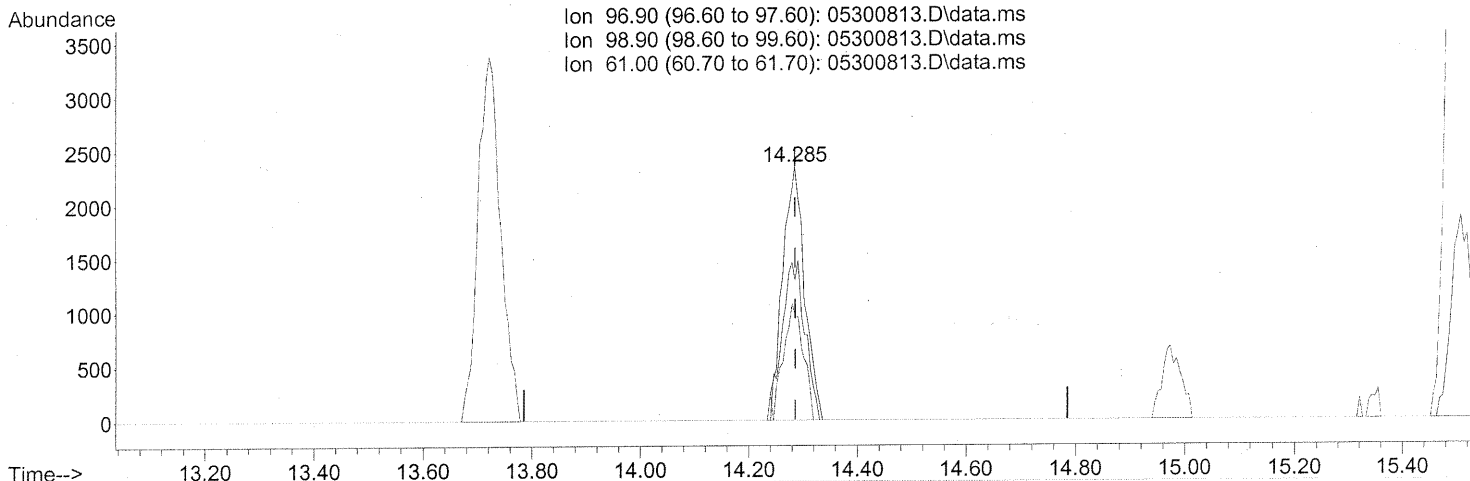
response 451374

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 0.21ng

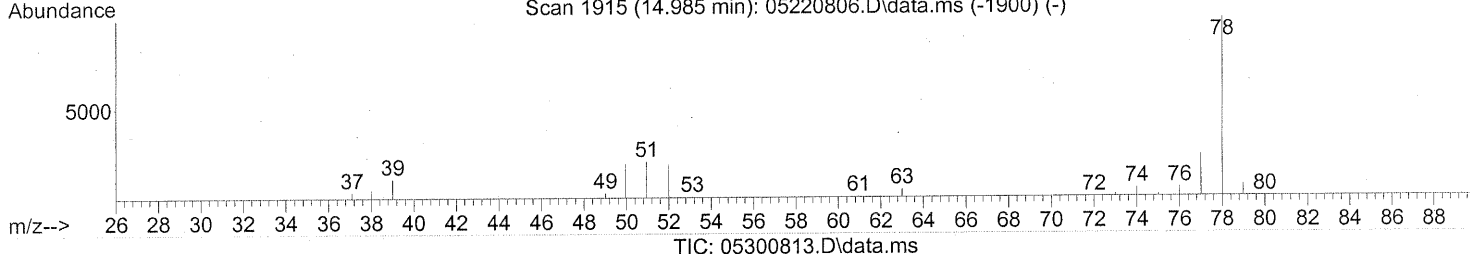
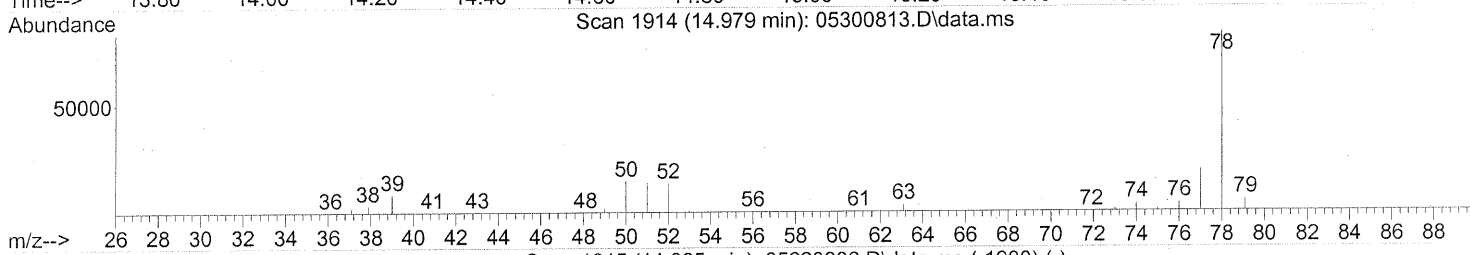
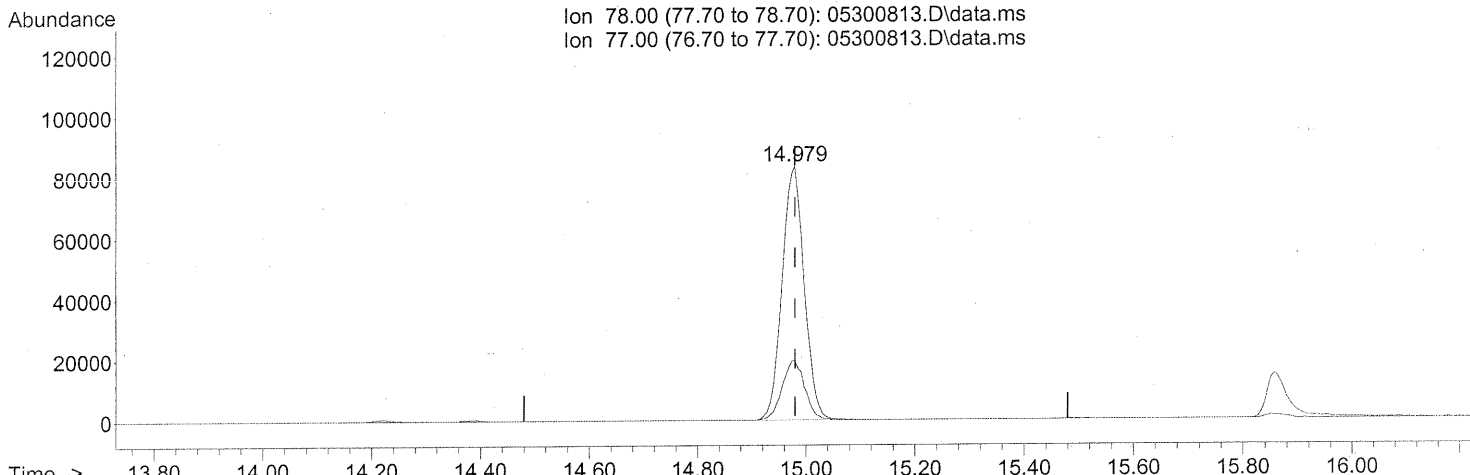
response 6621

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	64.20
61.00	50.50	42.03
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration .



(41) Benzene (T)

14.979min (-0.000) 3.29ng

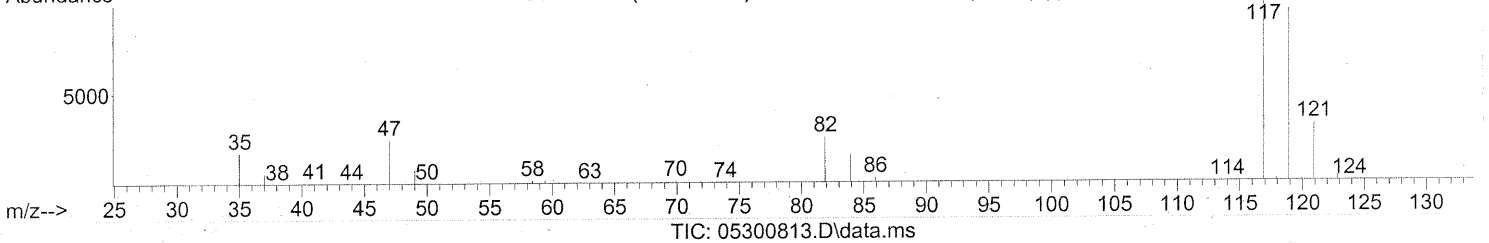
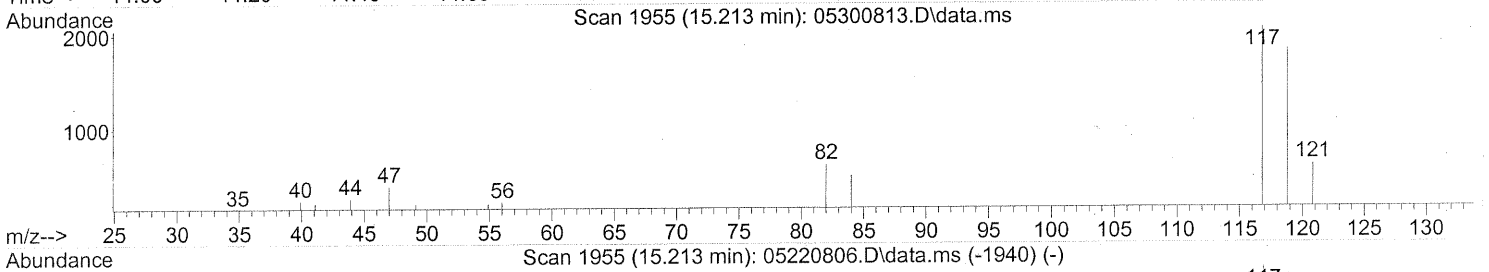
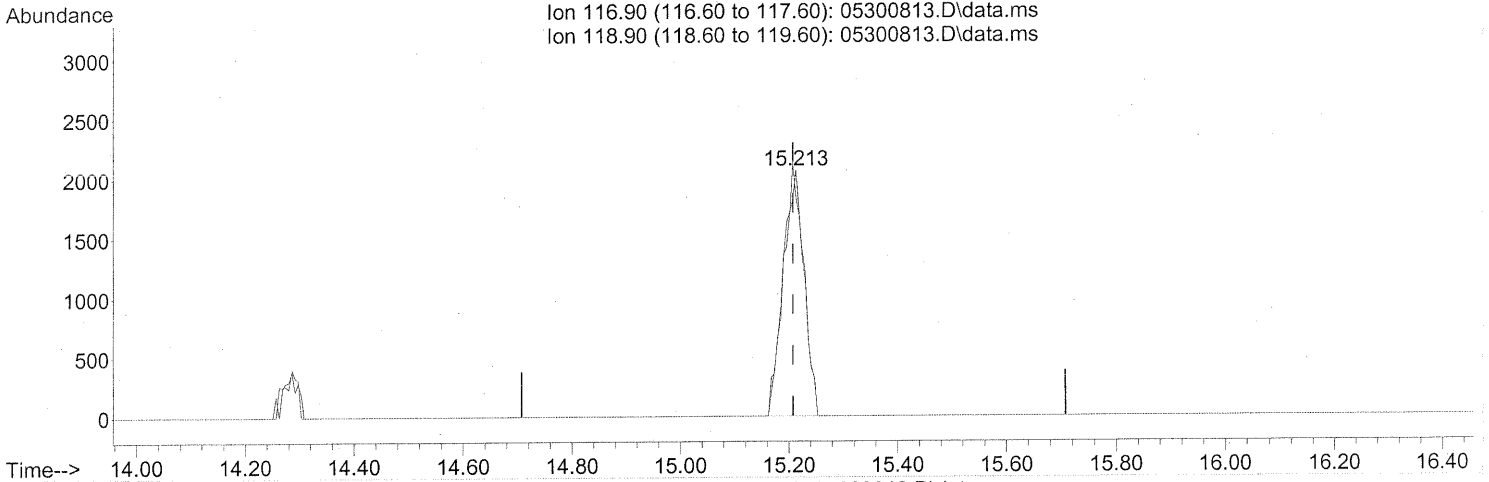
response 235538

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.20ng

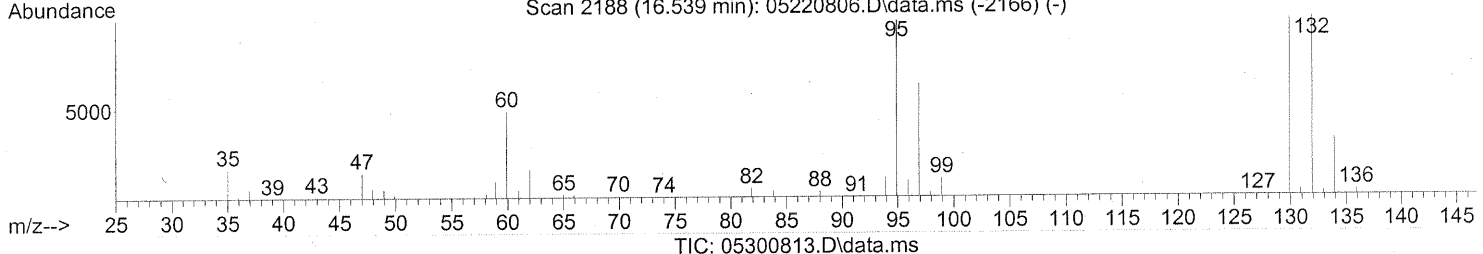
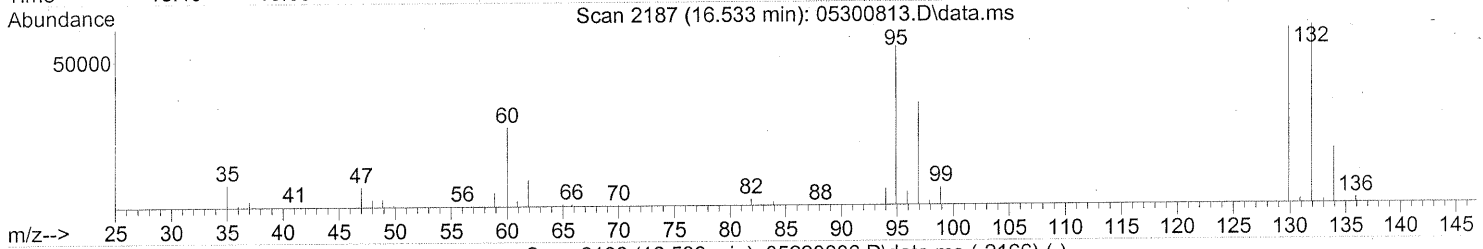
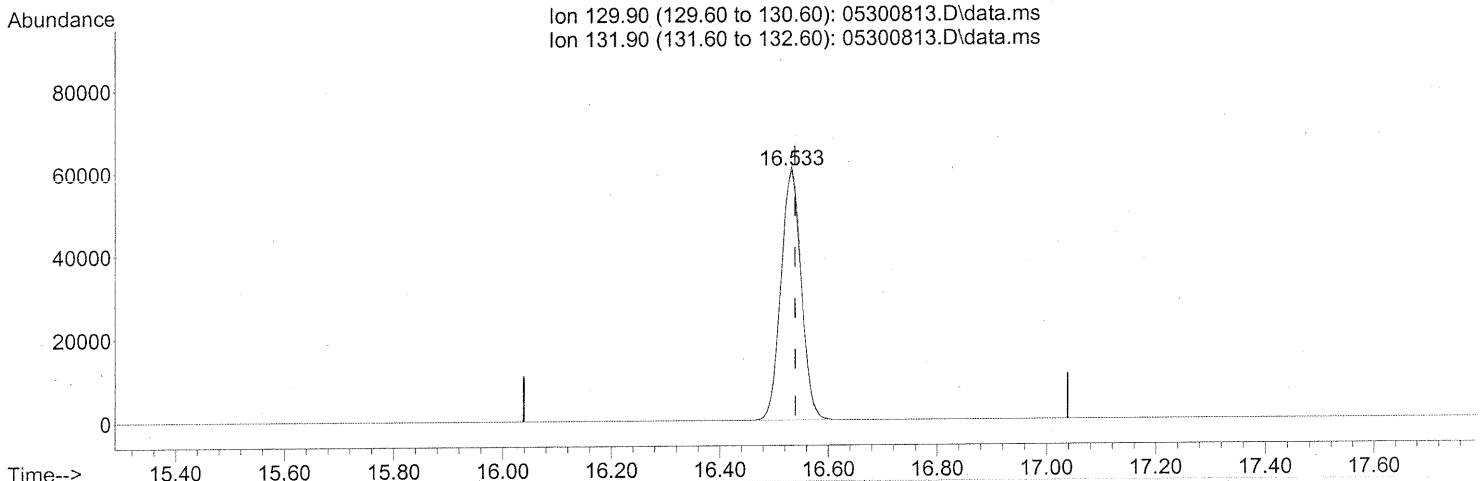
response 5582

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	99.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 7.05ng

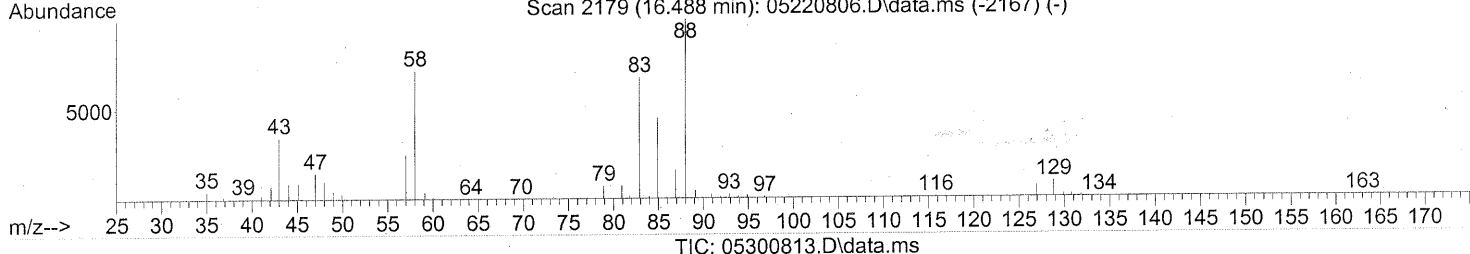
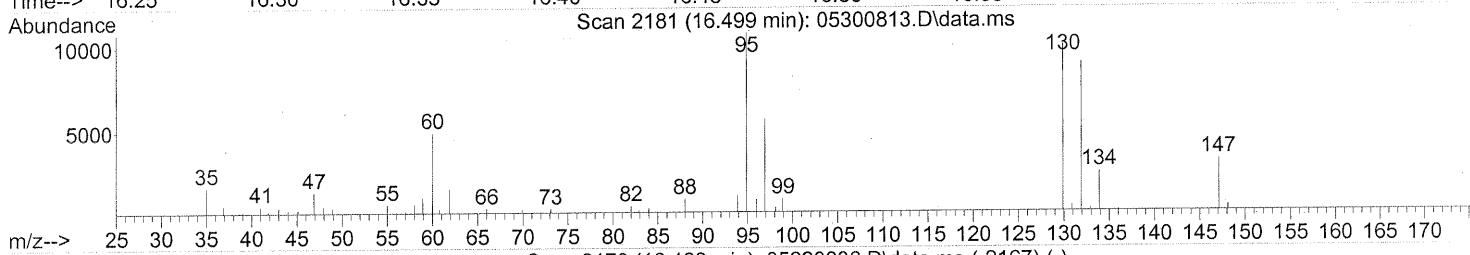
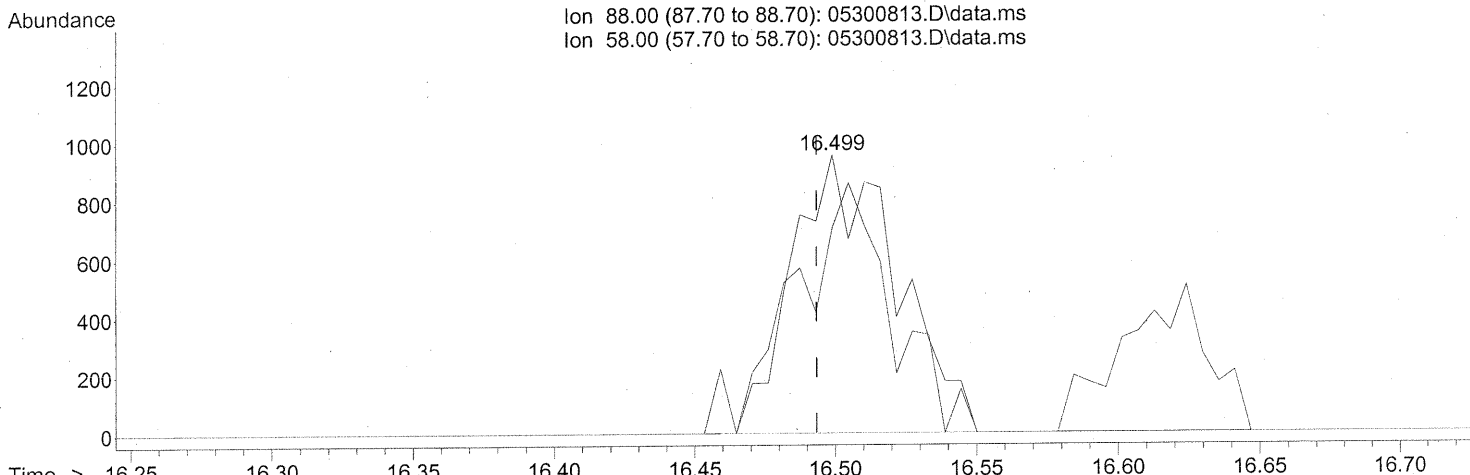
response 154949

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
16.499min (+0.006) 0.18ng  
response 2473

BEFORE SUBTRACTION

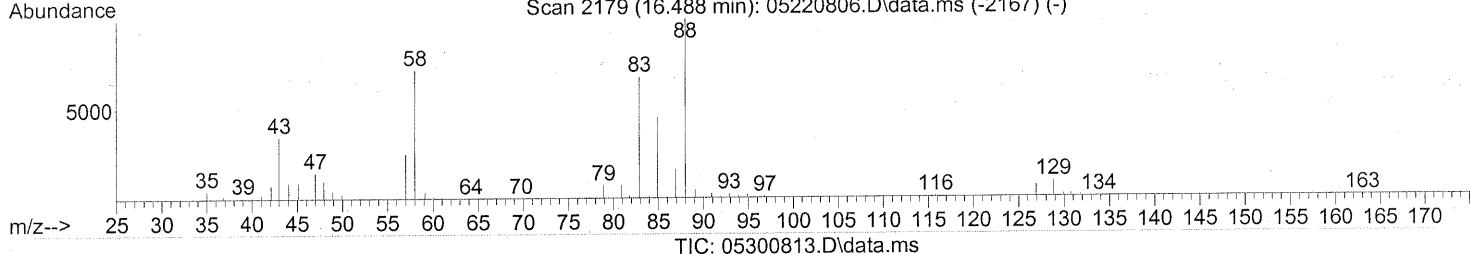
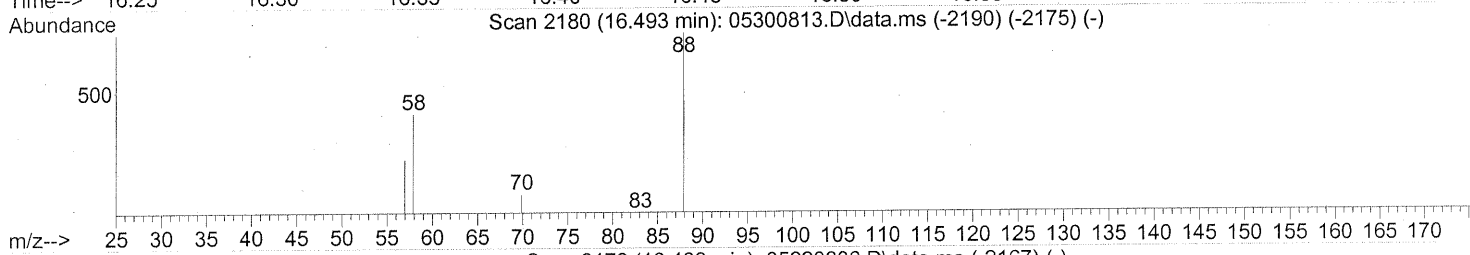
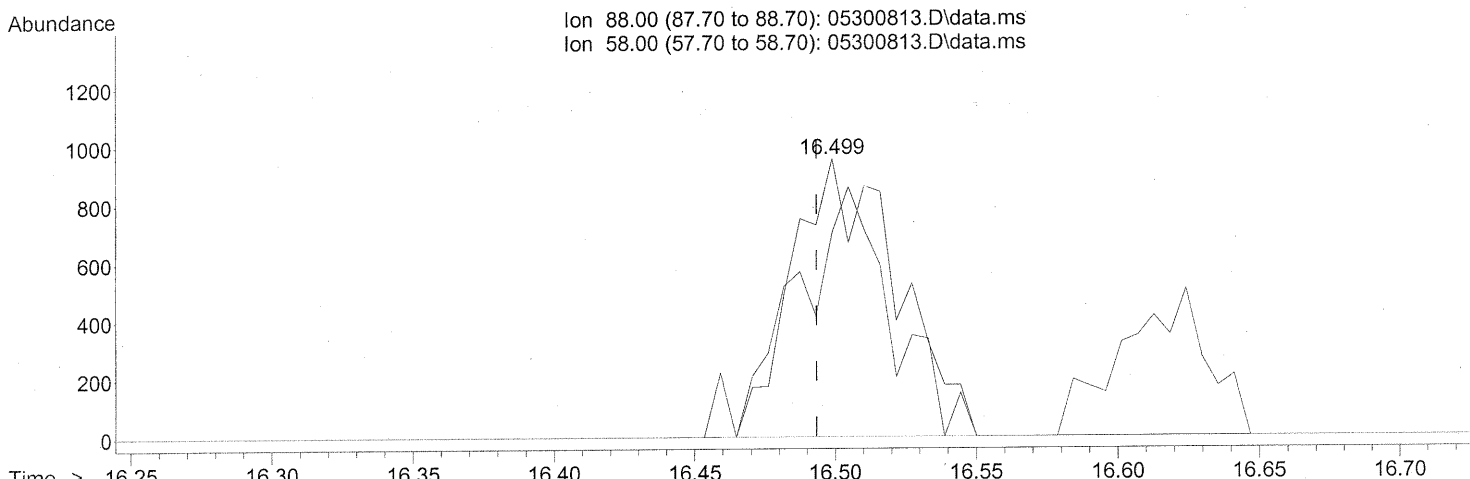
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	84.59
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.18ng

response 2473

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	84.59
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

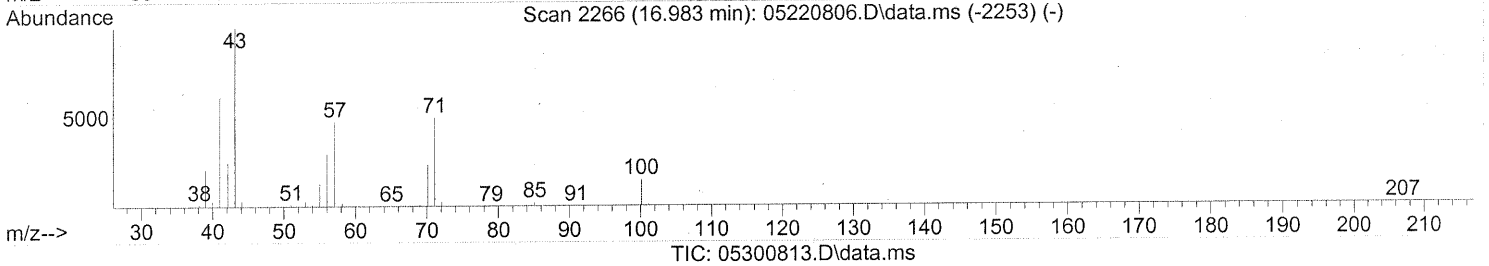
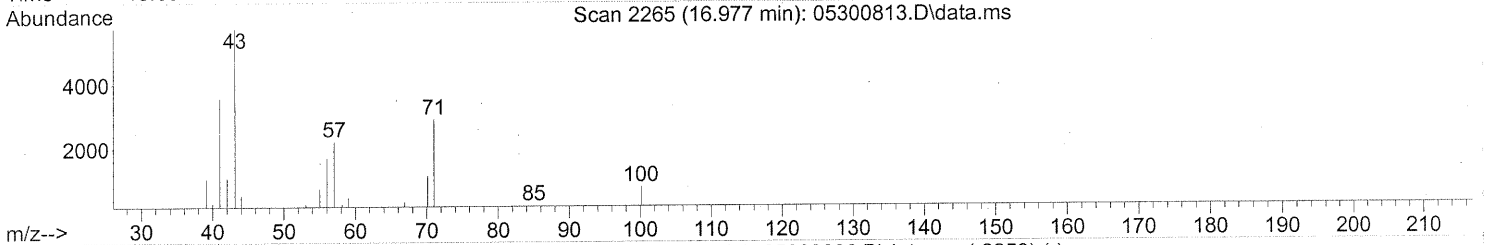
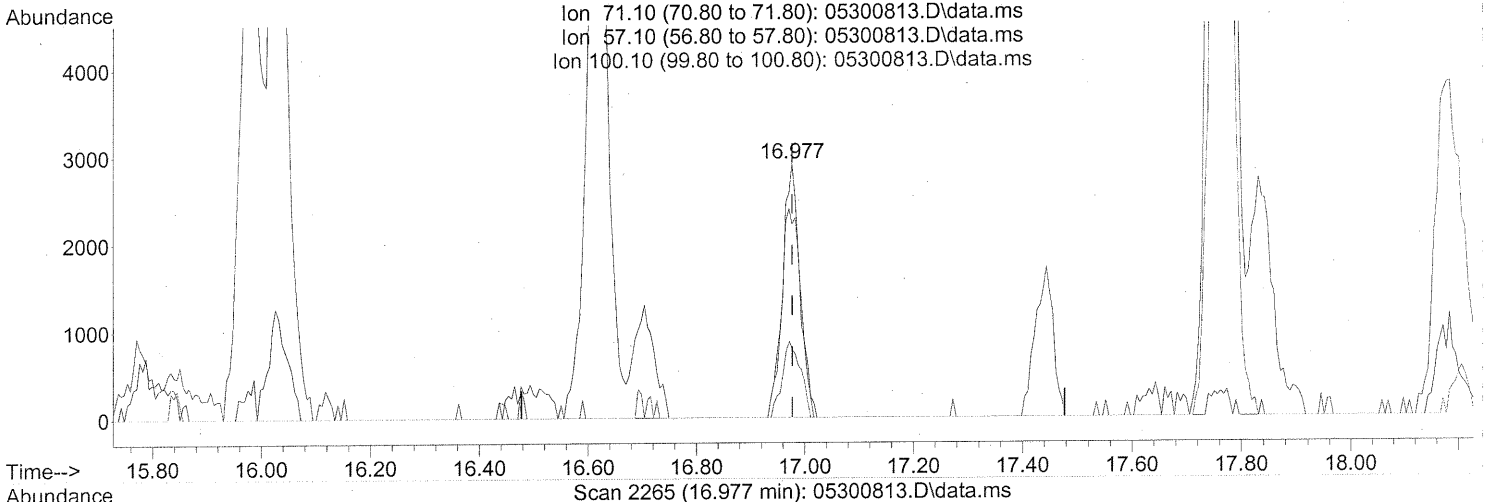
6/04/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.977min (-0.000) 0.34ng

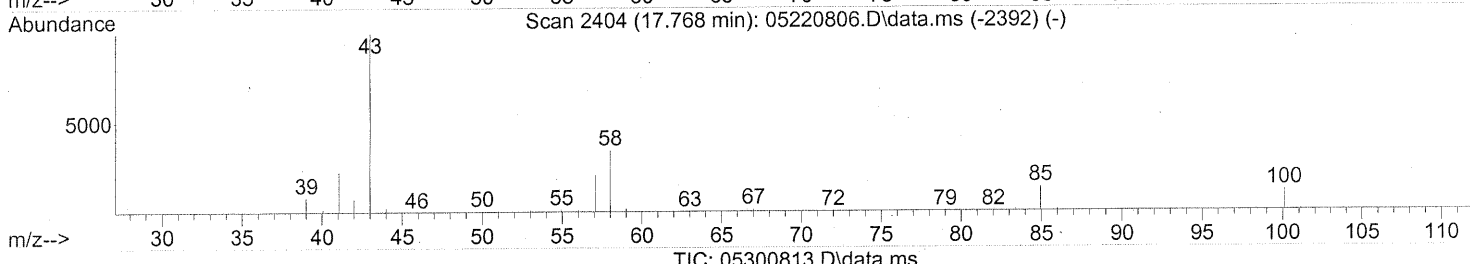
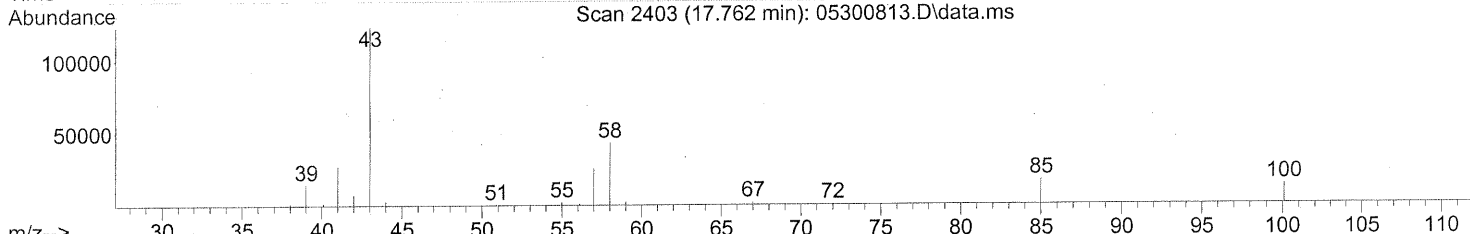
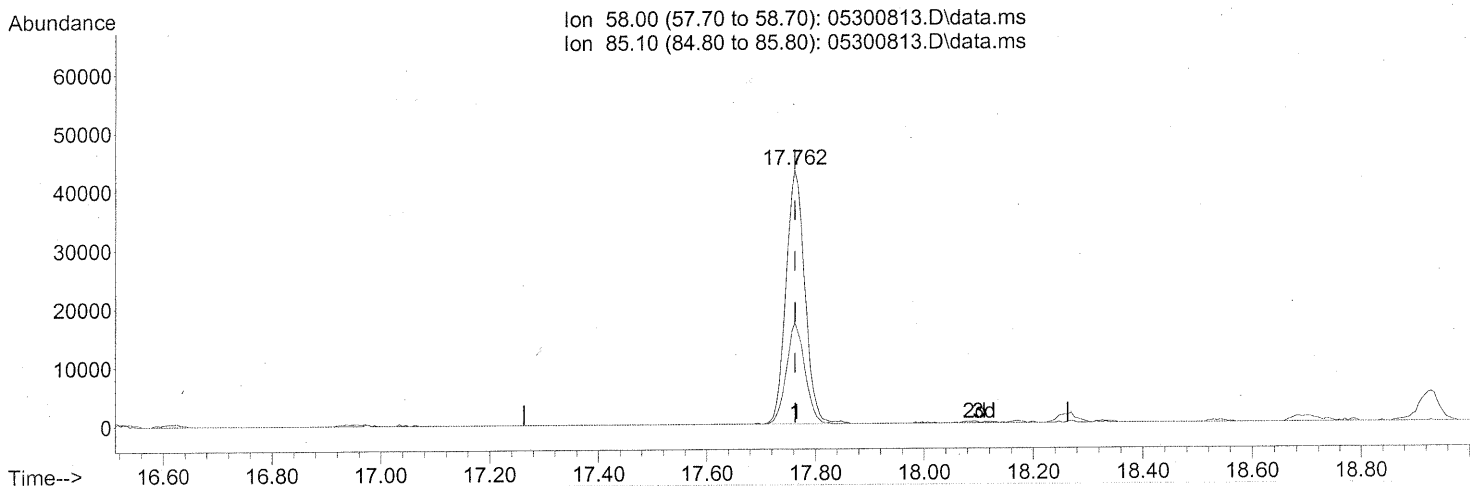
response 6497

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	90.67#
100.10	30.10	31.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.762min (-0.000) 5.46ng

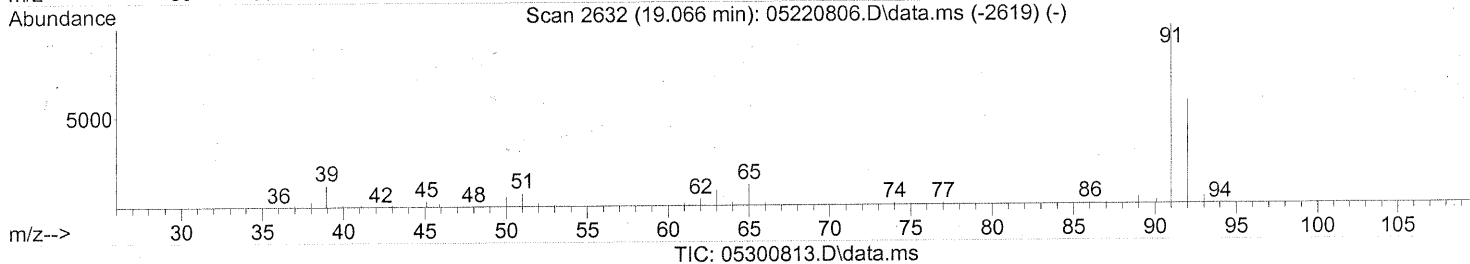
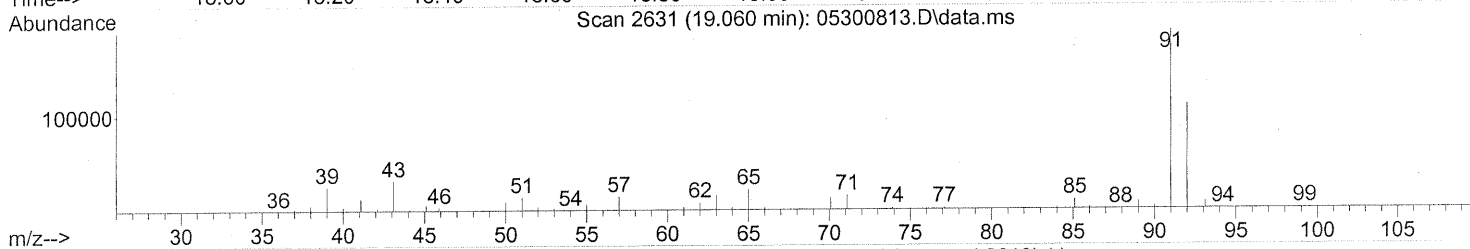
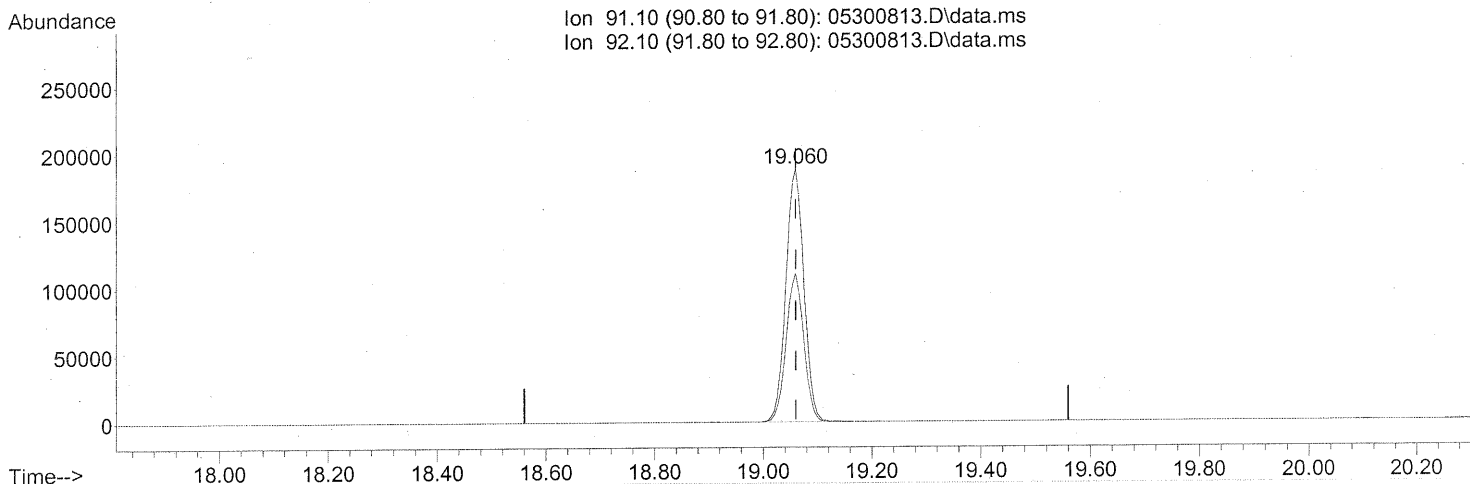
response 103875

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 5.59ng

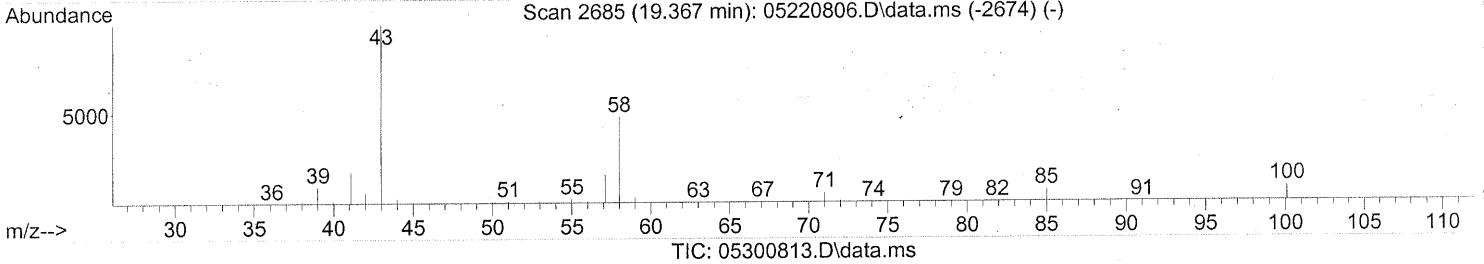
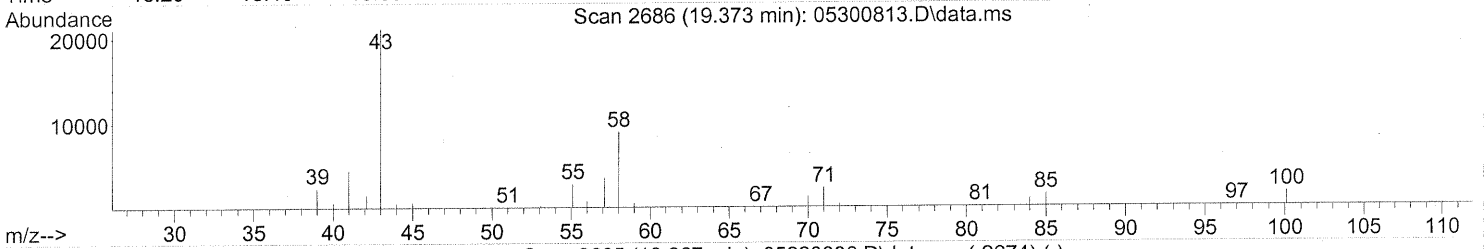
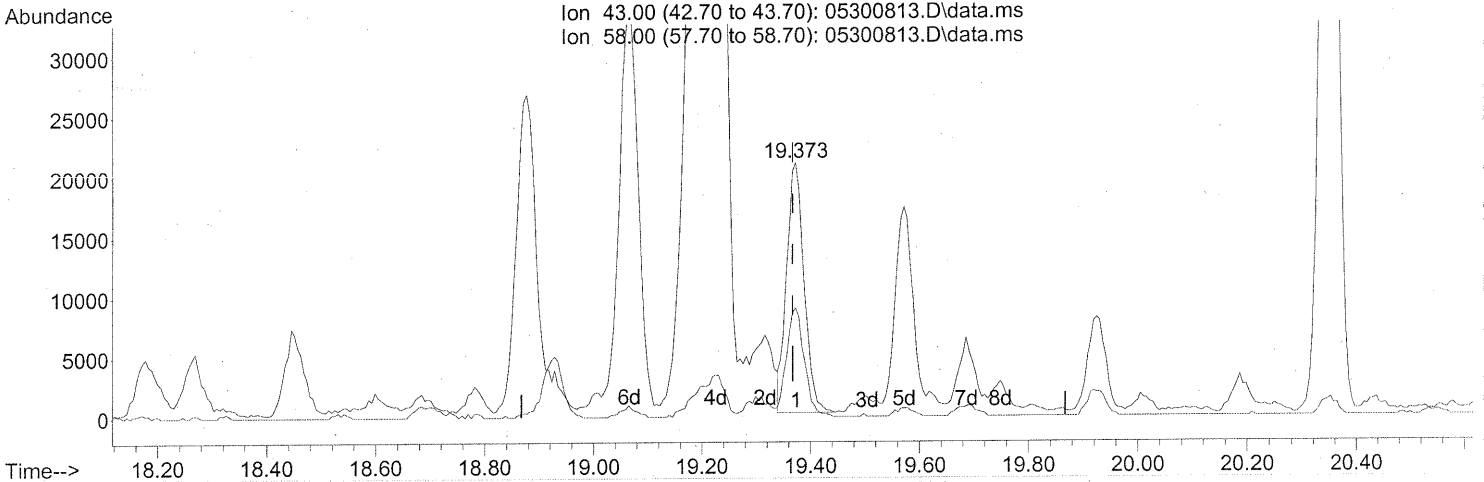
response 435622

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.86ng

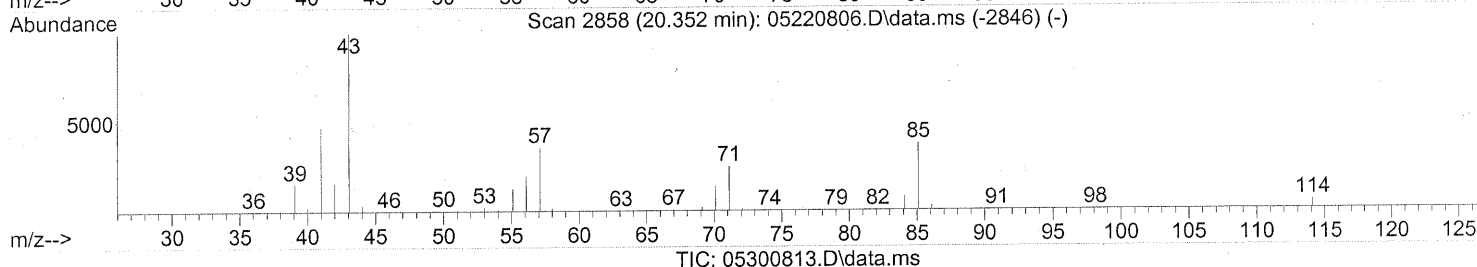
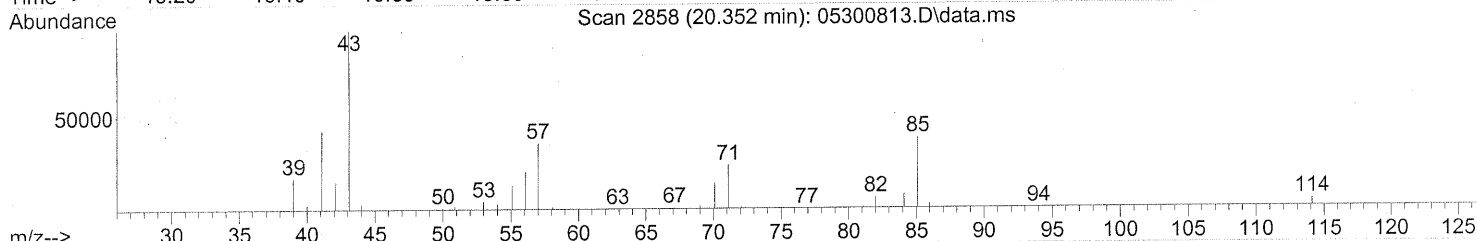
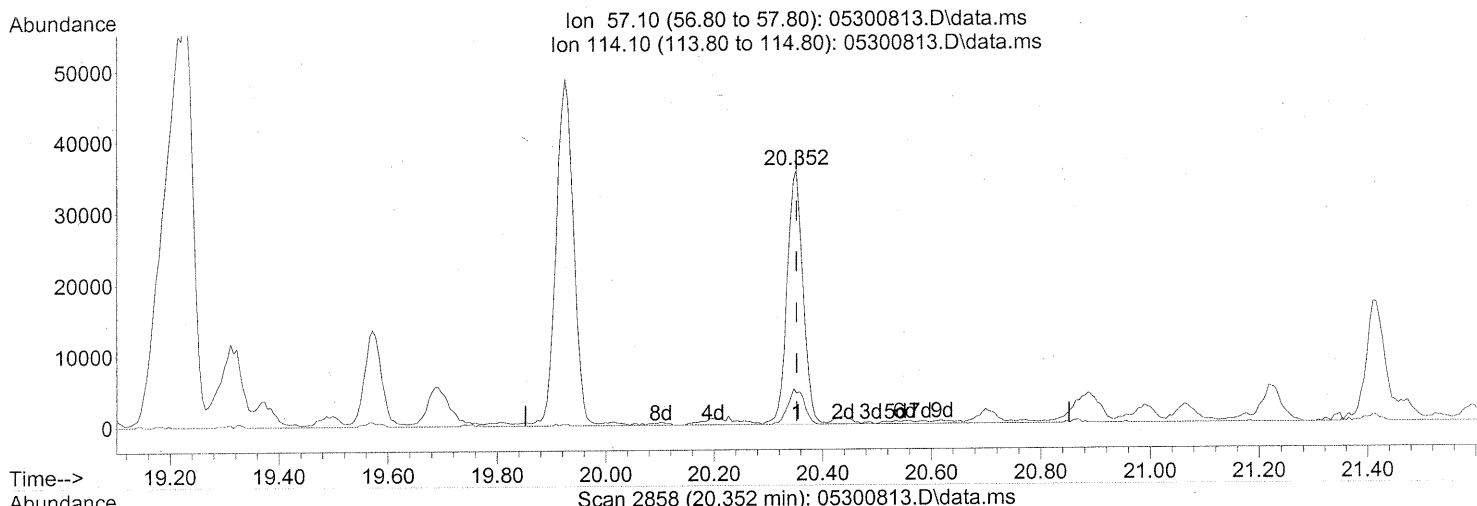
response 46386

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 4.21ng

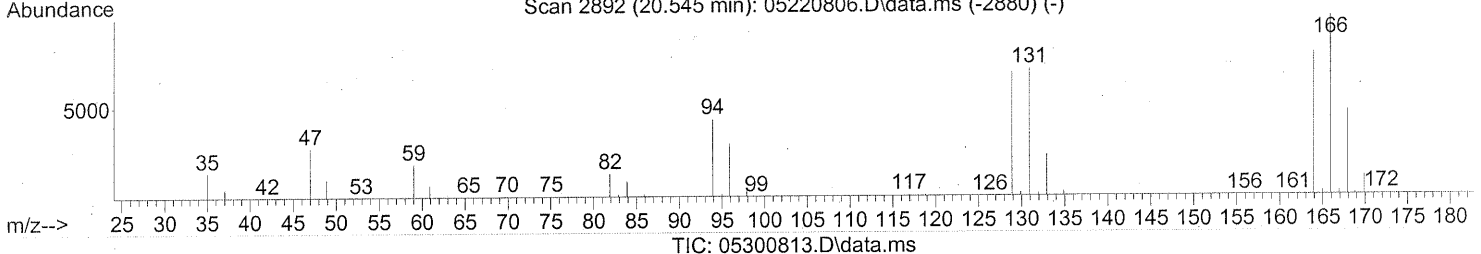
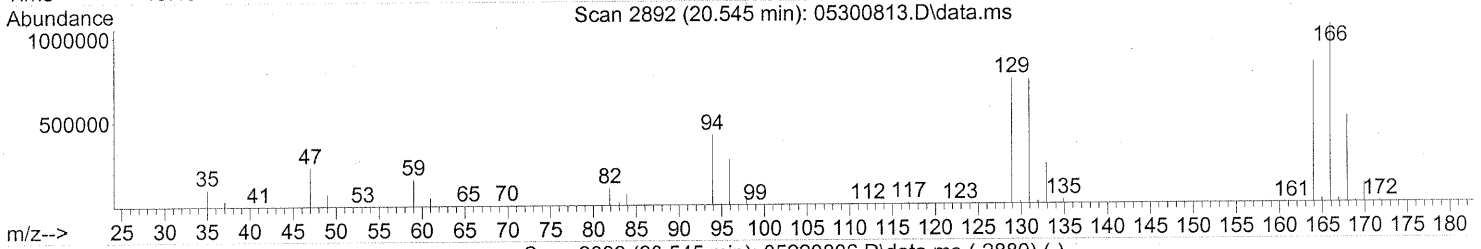
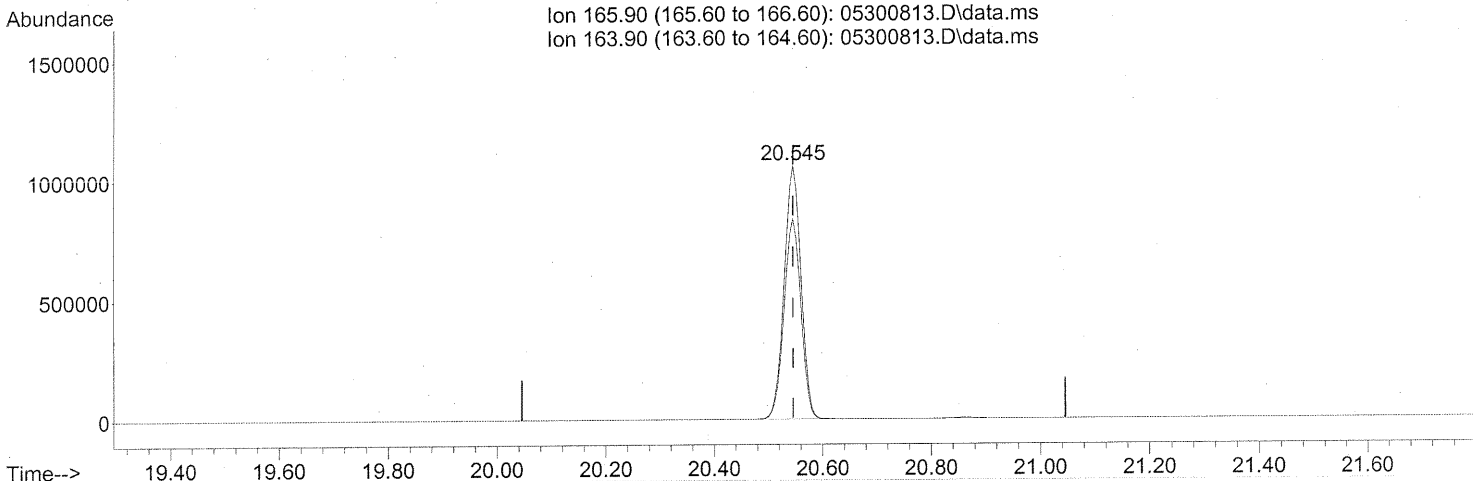
response 72675

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.545min (-0.000) 98.52ng

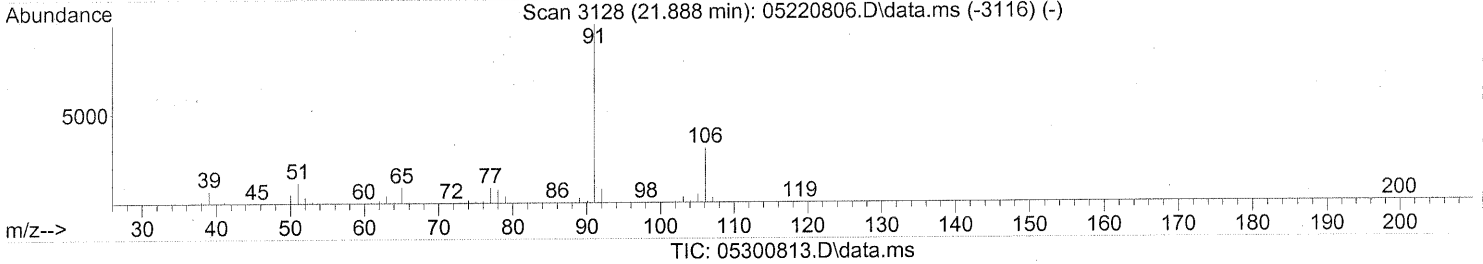
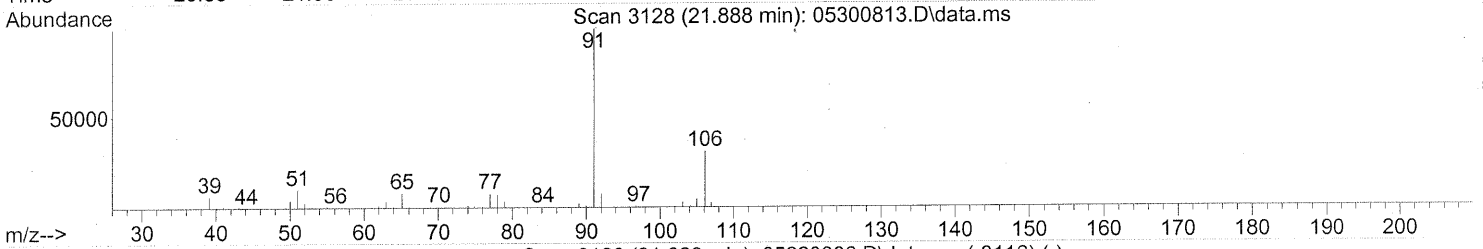
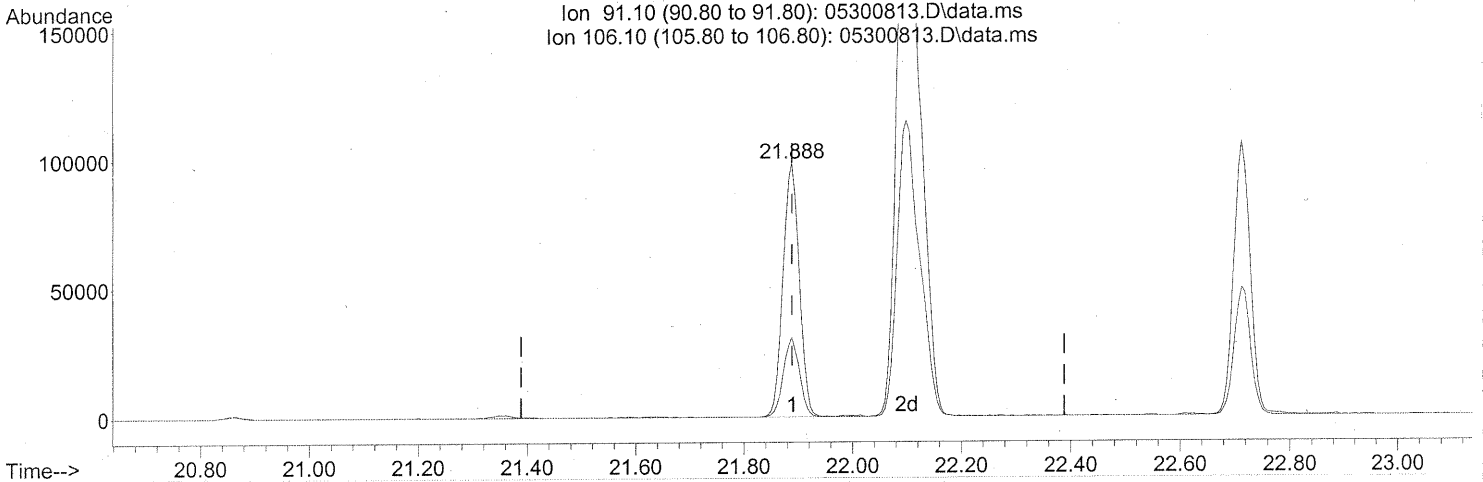
response 2273767

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)  
 21.888min (-0.000) 2.31ng  
 response 206694

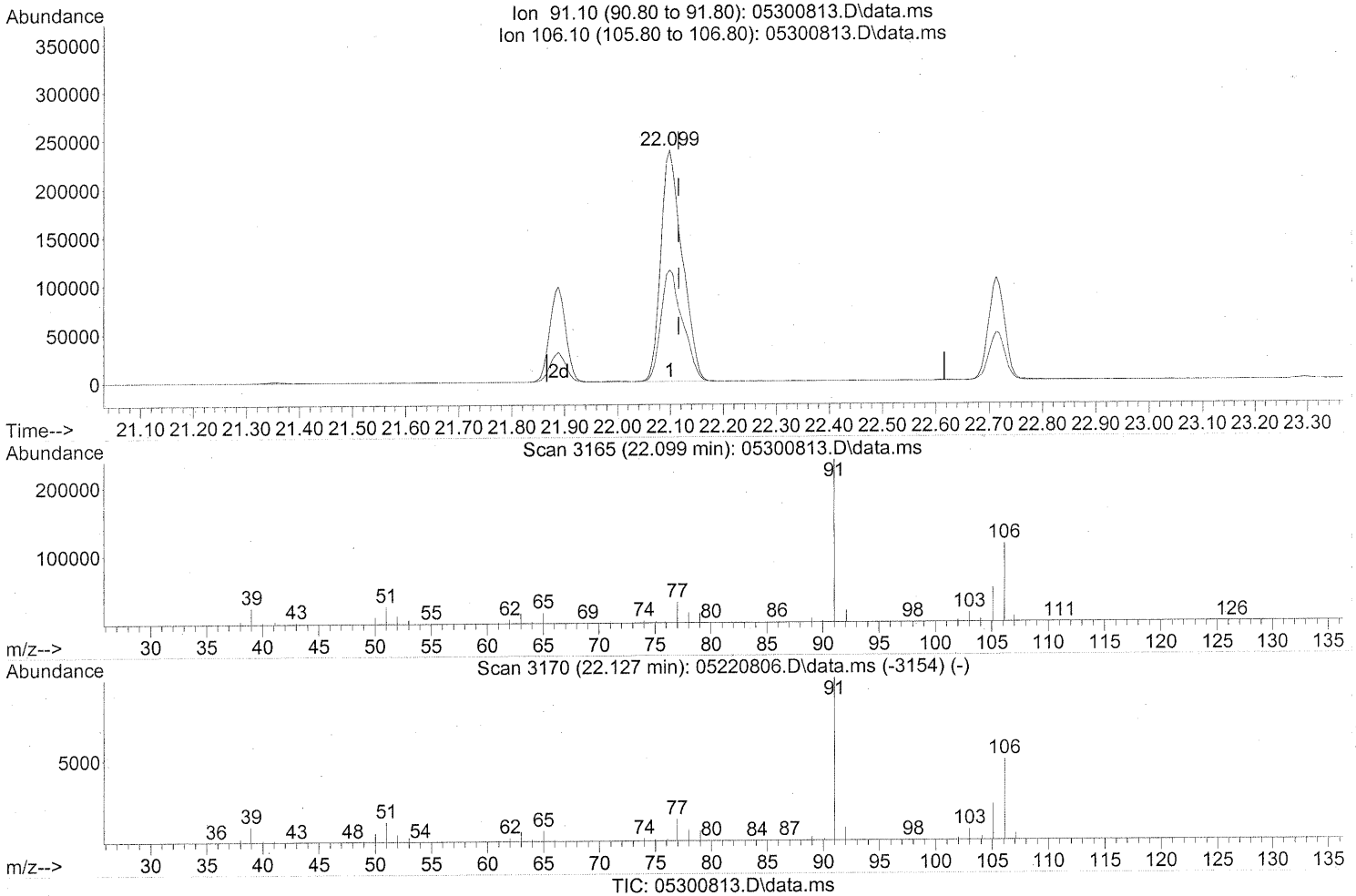
Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.84
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 11.25ng

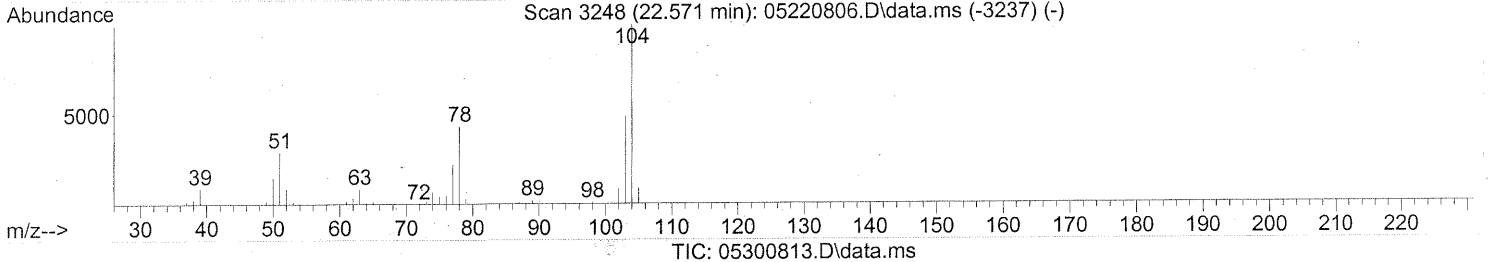
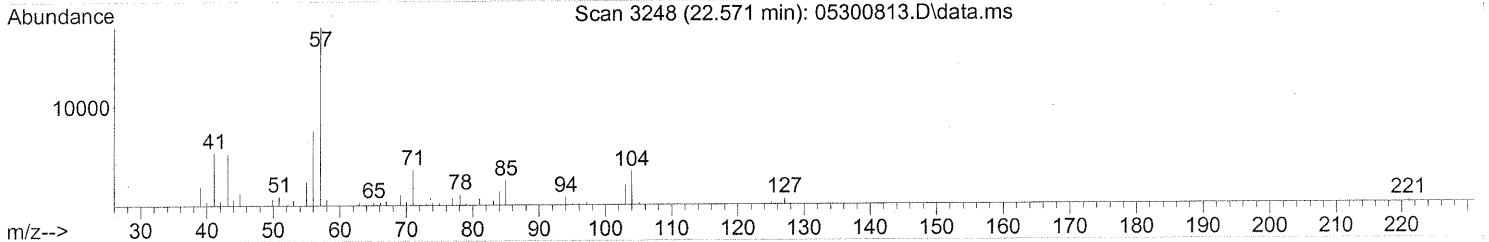
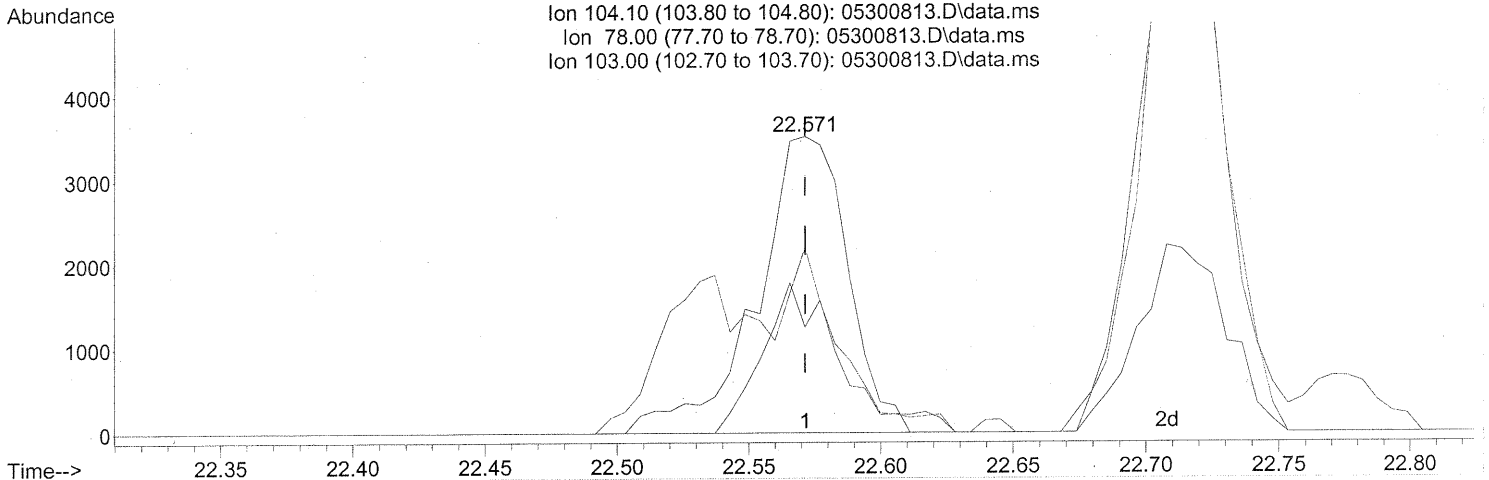
response 673220

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.16ng

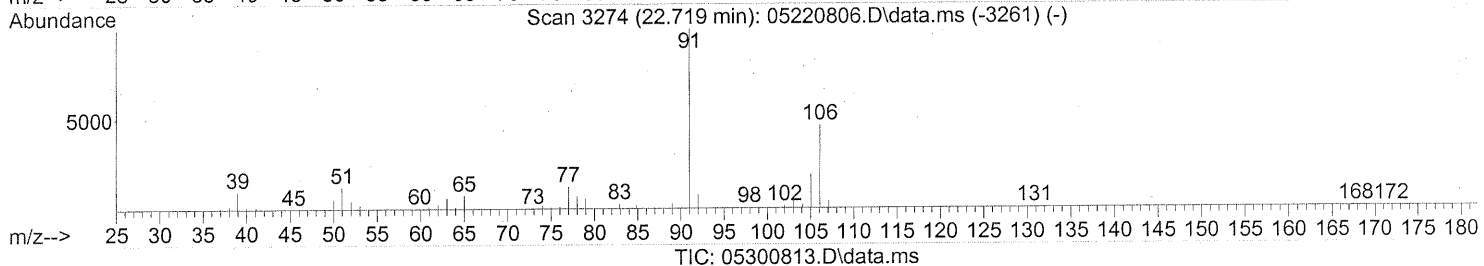
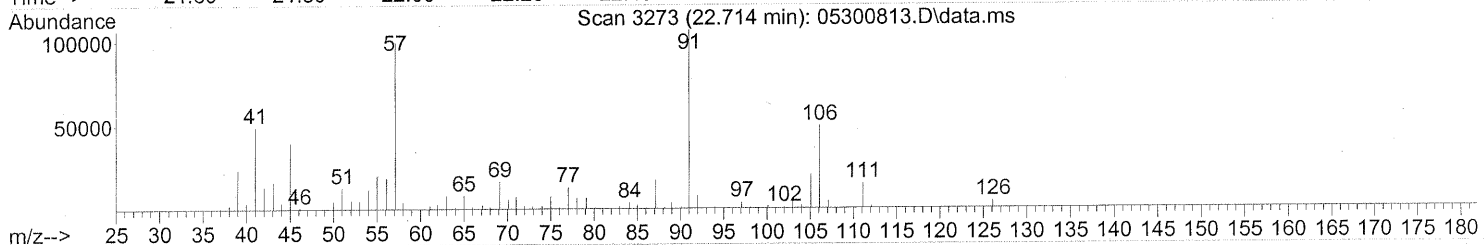
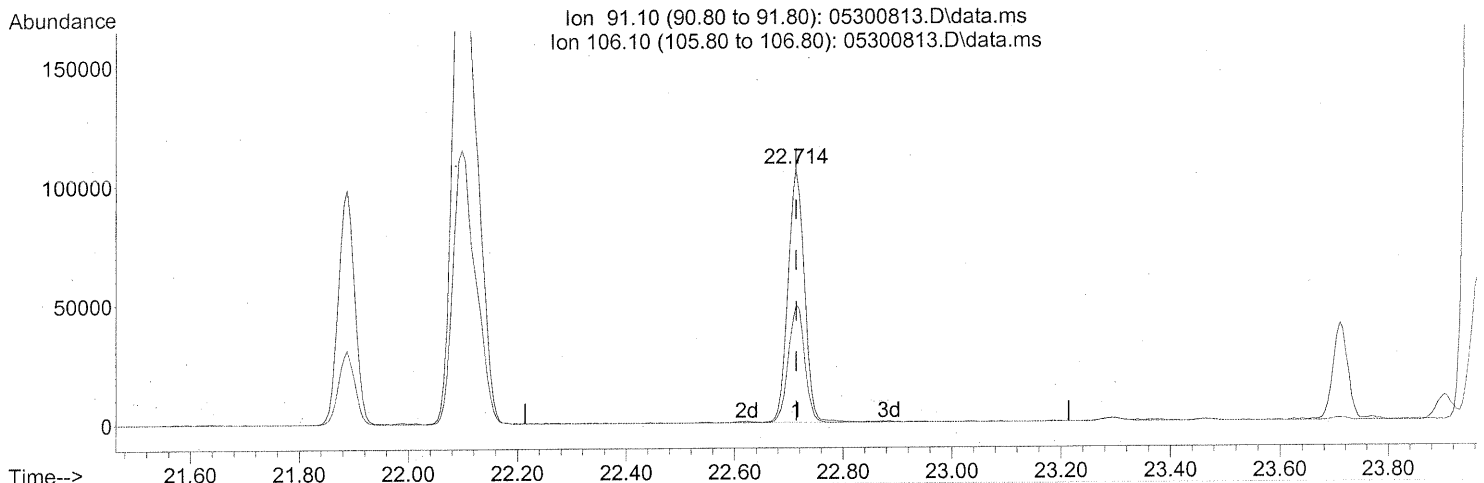
response 8425

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	43.18
103.00	47.10	36.26
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 3.47ng

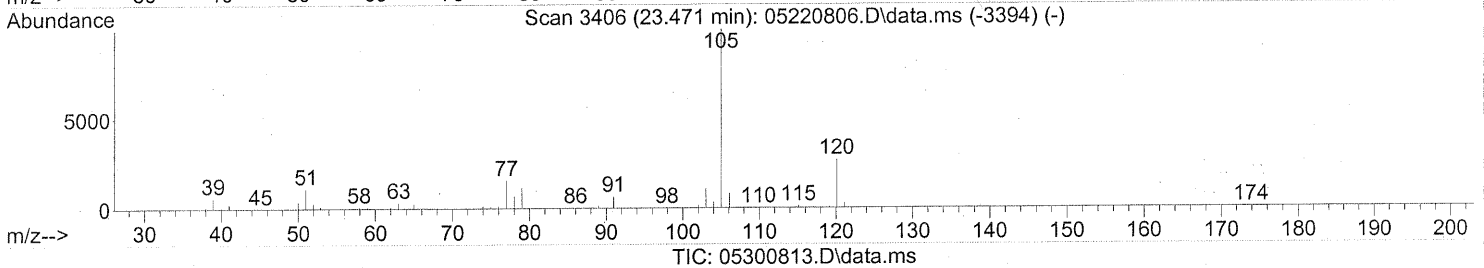
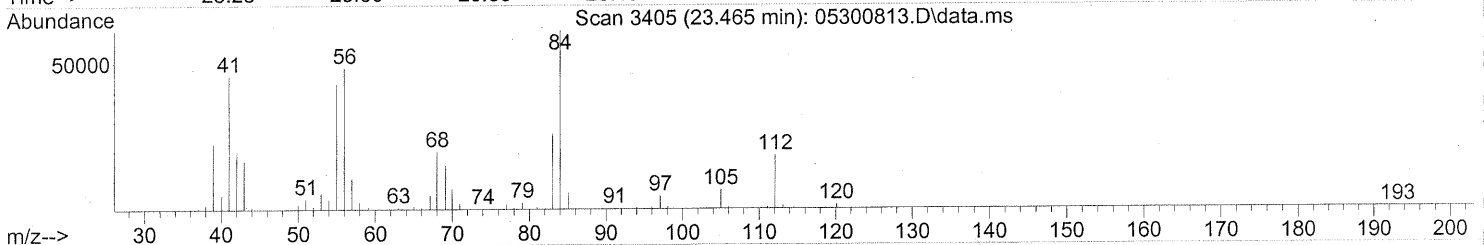
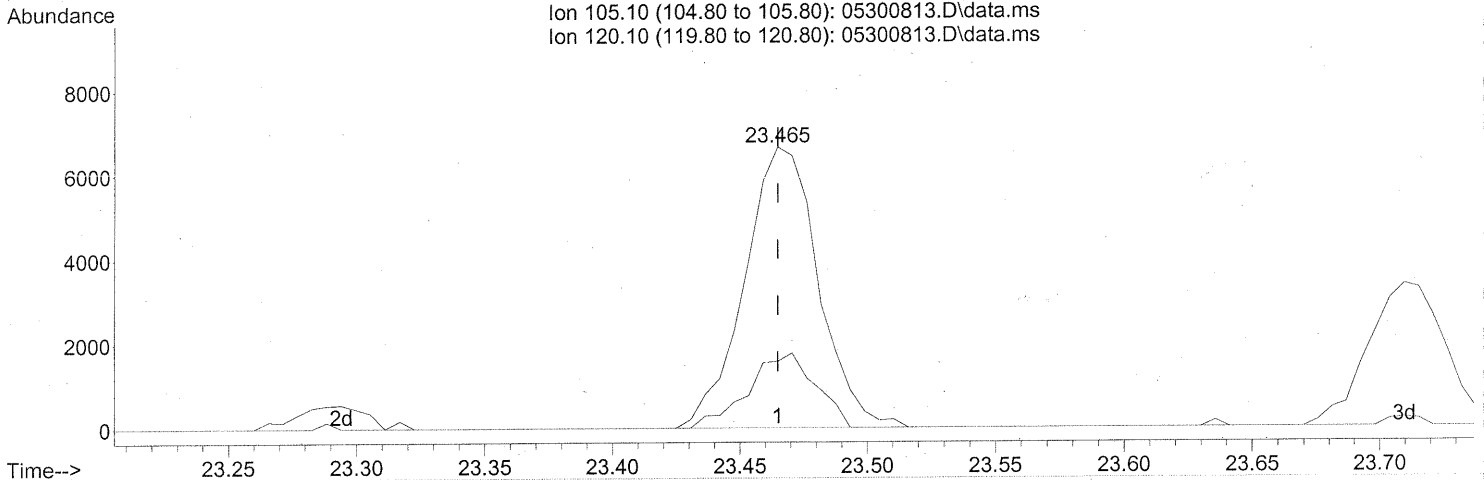
response 224364

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.16ng

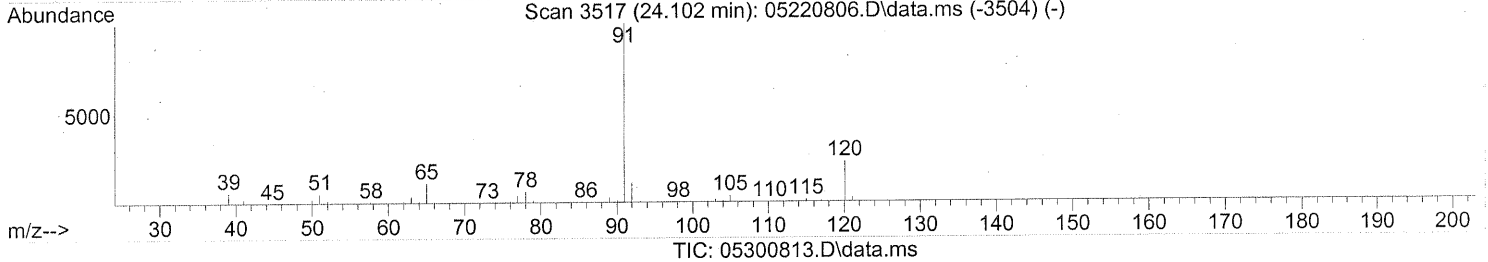
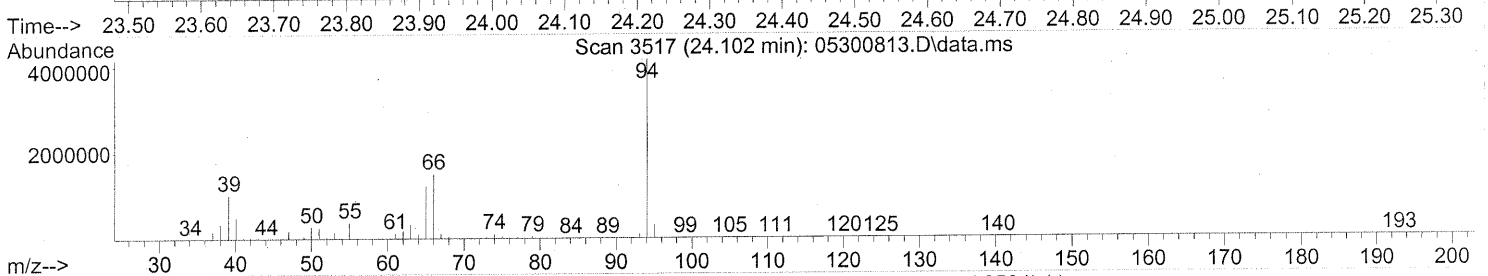
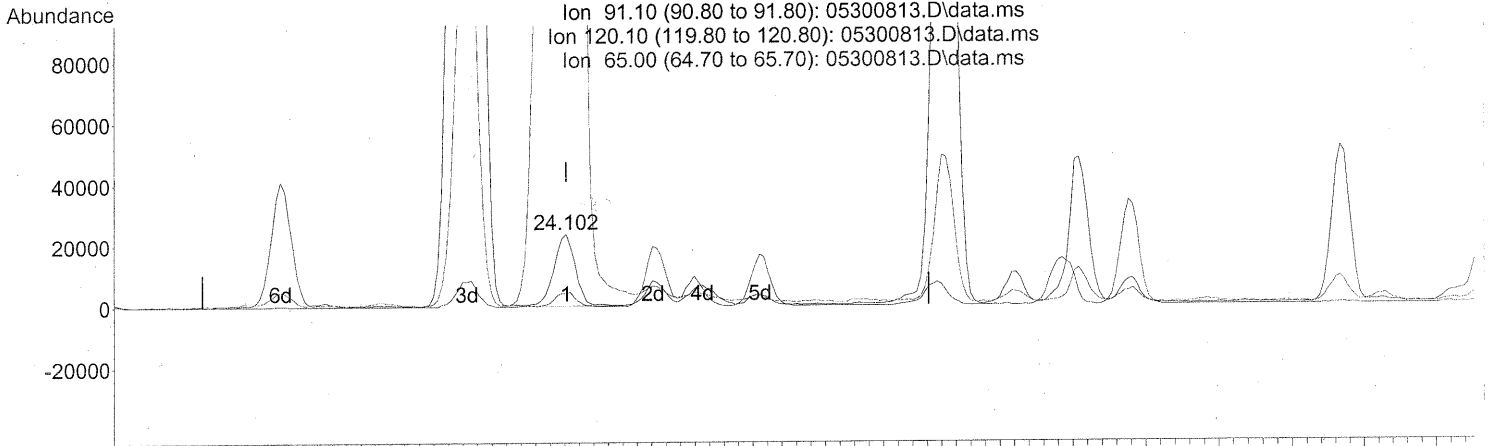
response 13336

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	24.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (-0.000) 0.44ng

response 48489

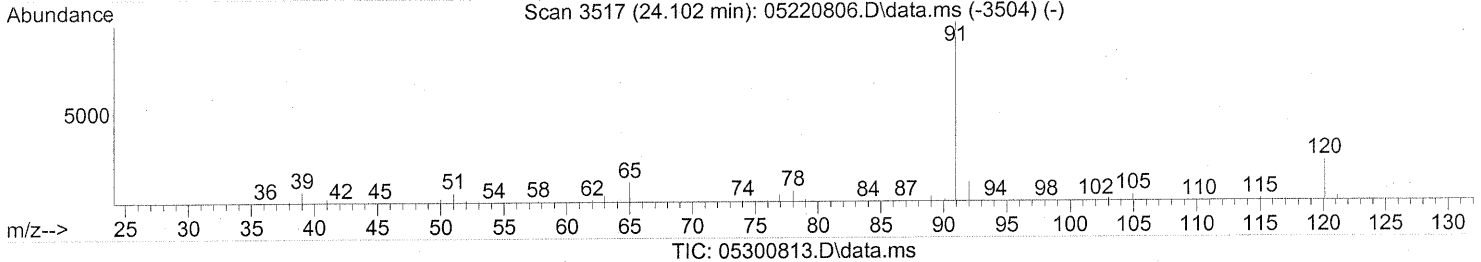
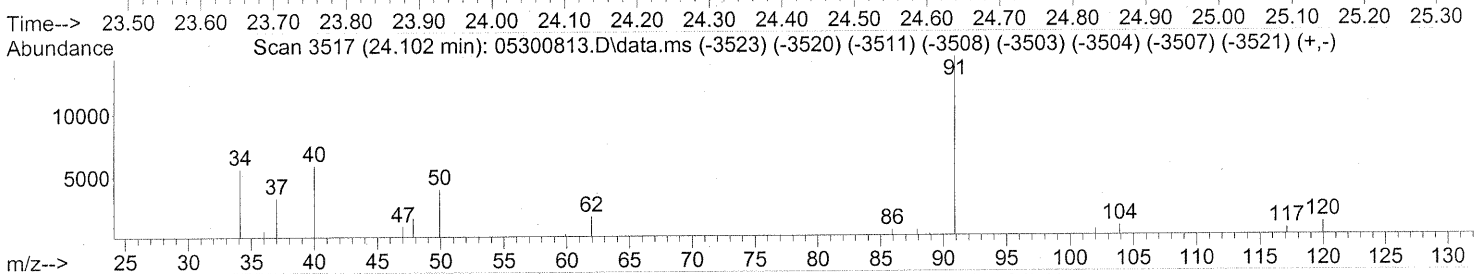
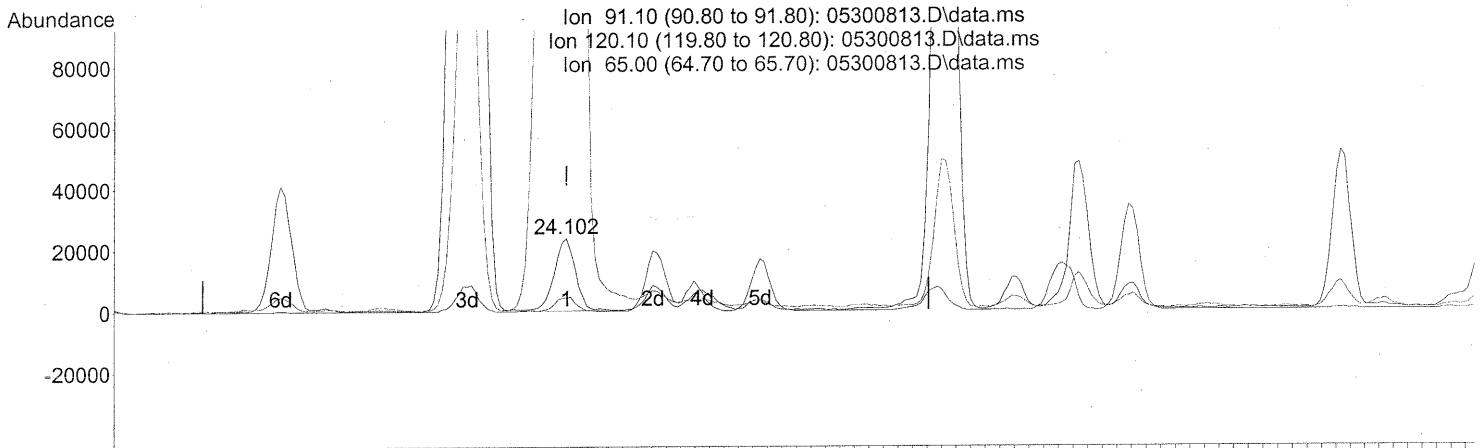
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.65
65.00	11.40	6290.53#
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.44ng  
 response 48489

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.65
65.00	11.40	6290.53#
0.00	0.00	0.00

AFTER SUBTRACTION

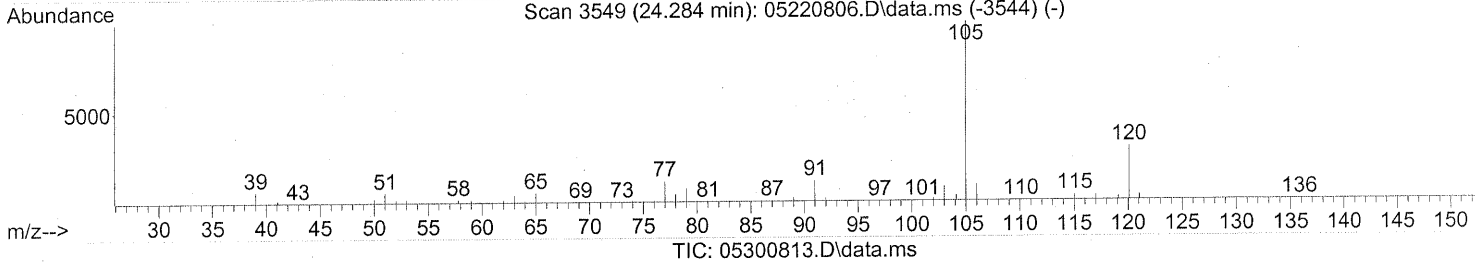
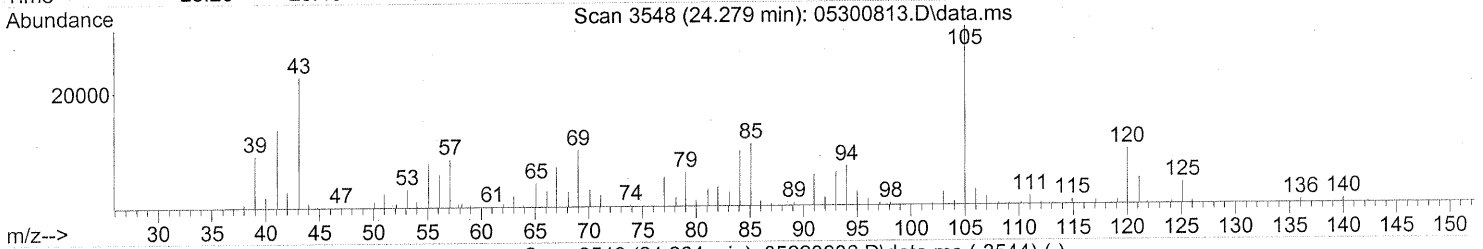
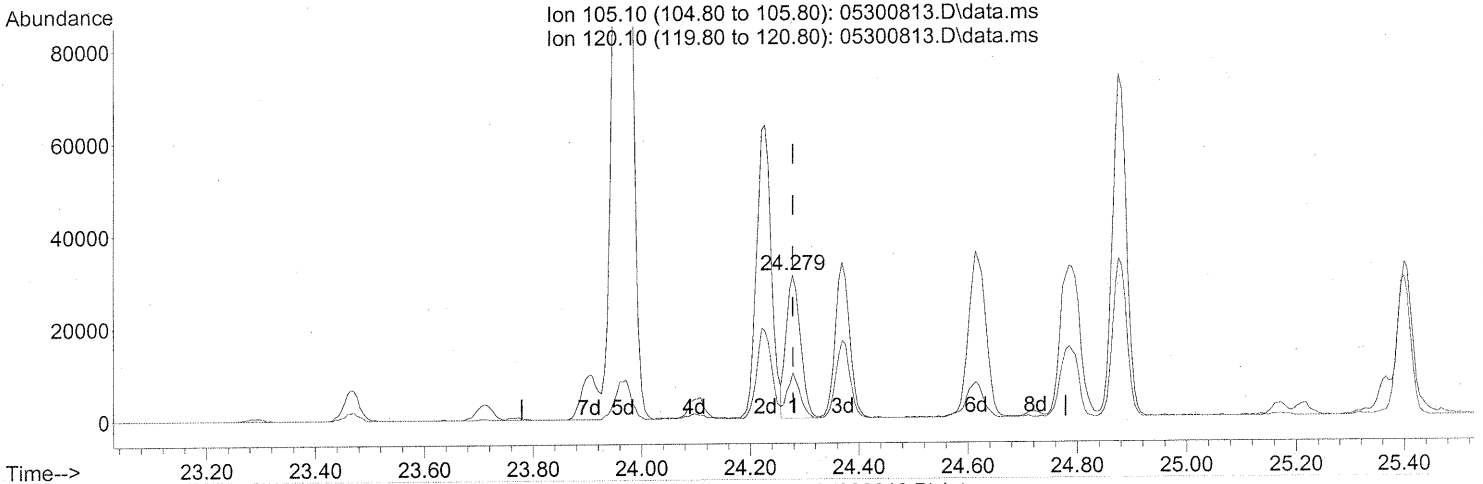
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.66ng

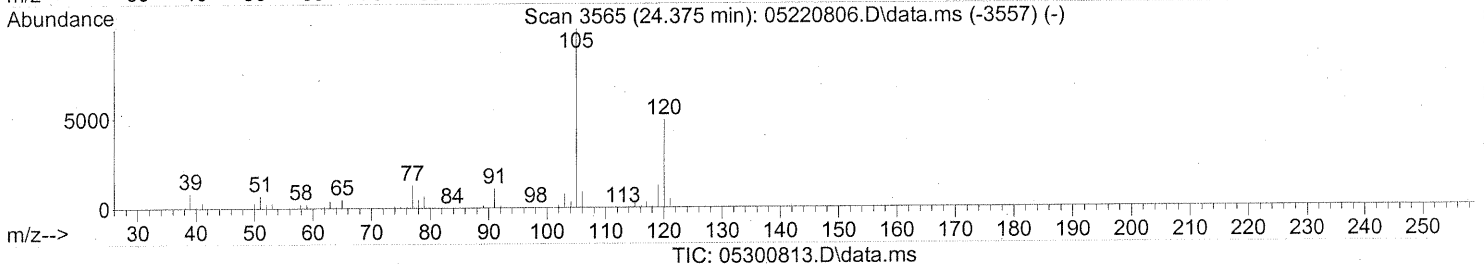
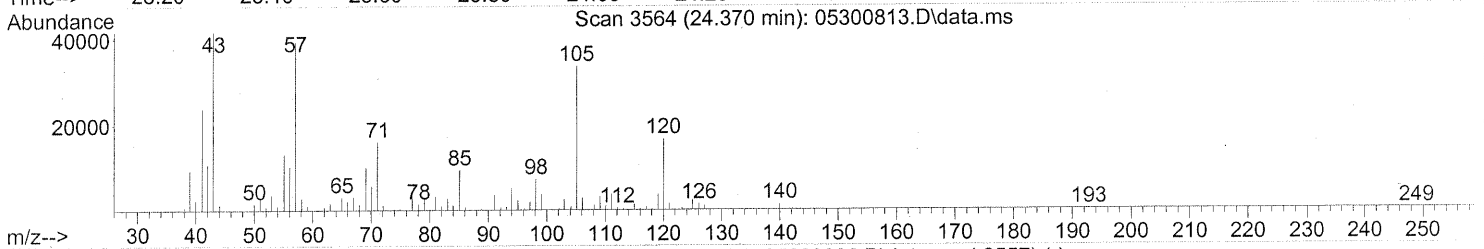
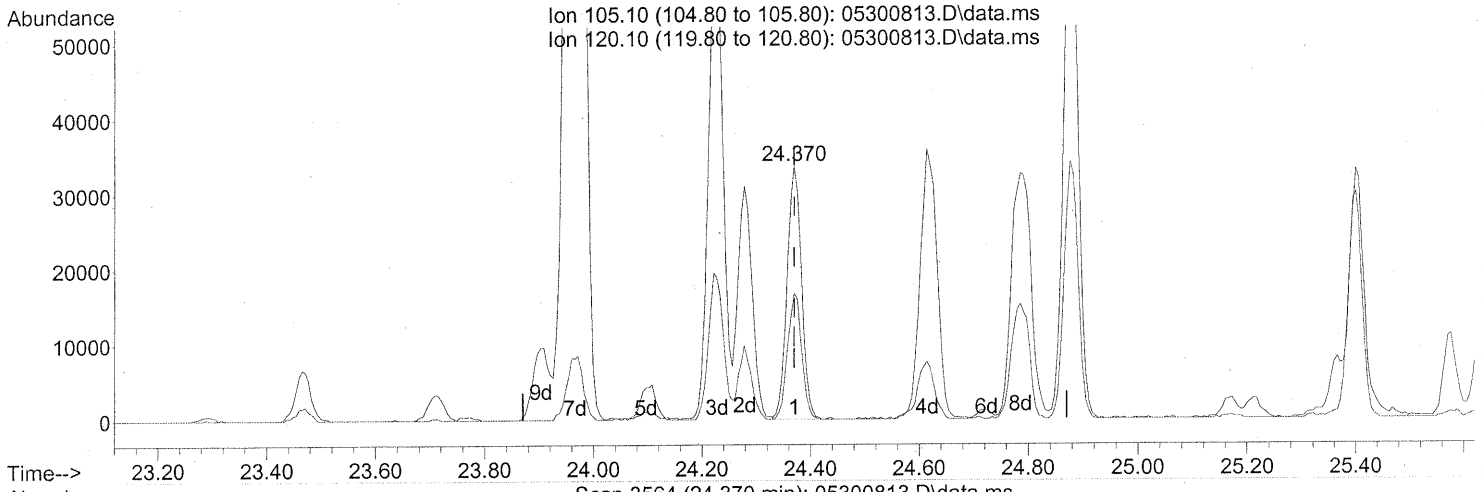
response 56045

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	28.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.80ng

response 61633

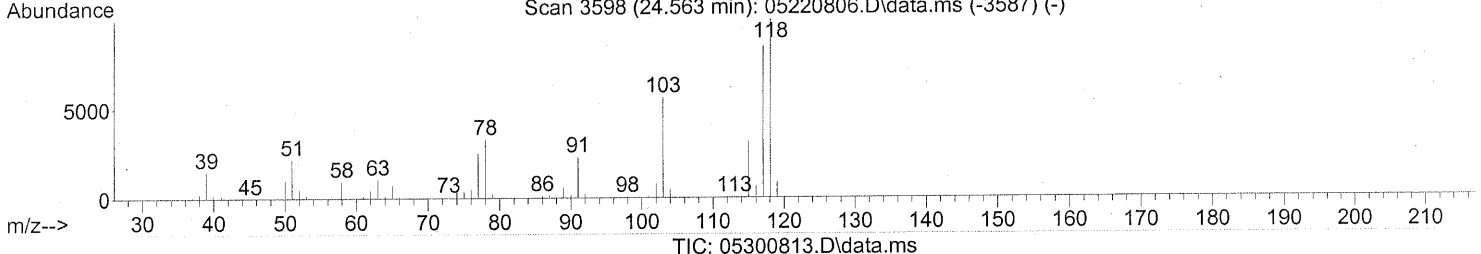
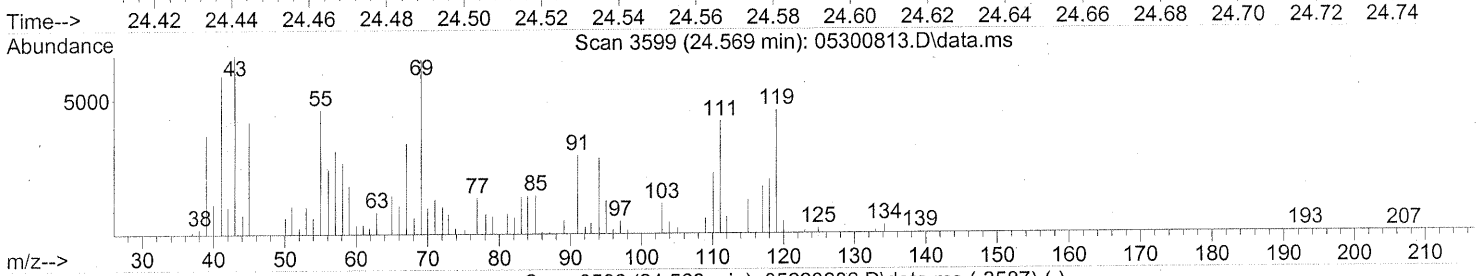
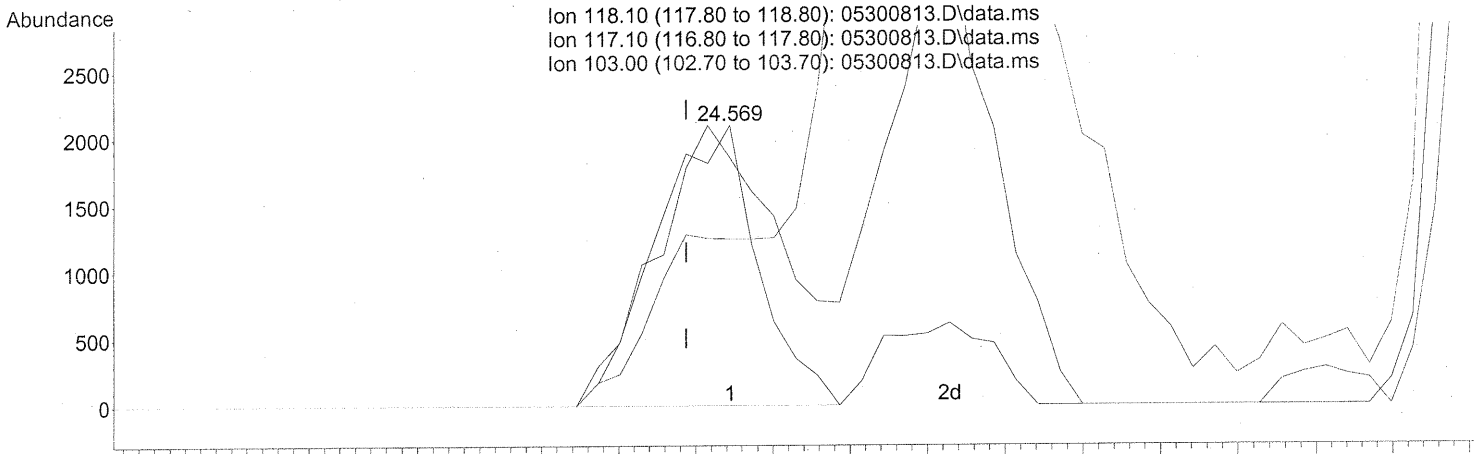
Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.65
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.569min (+0.011) 0.09ng

response 3837

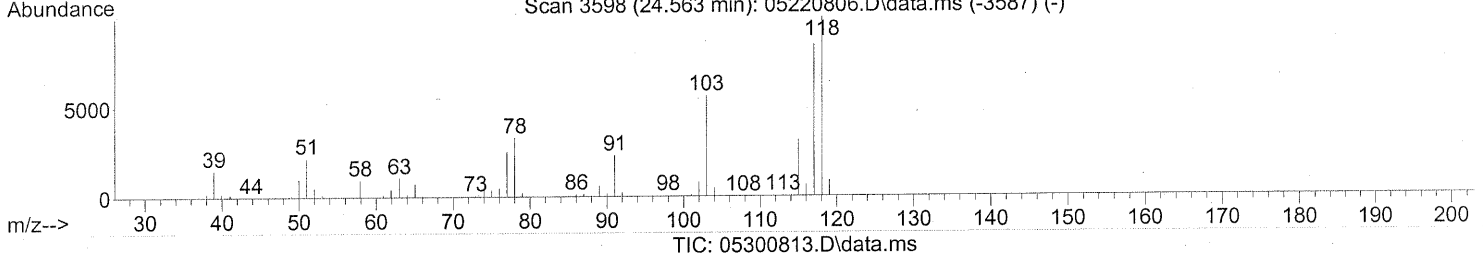
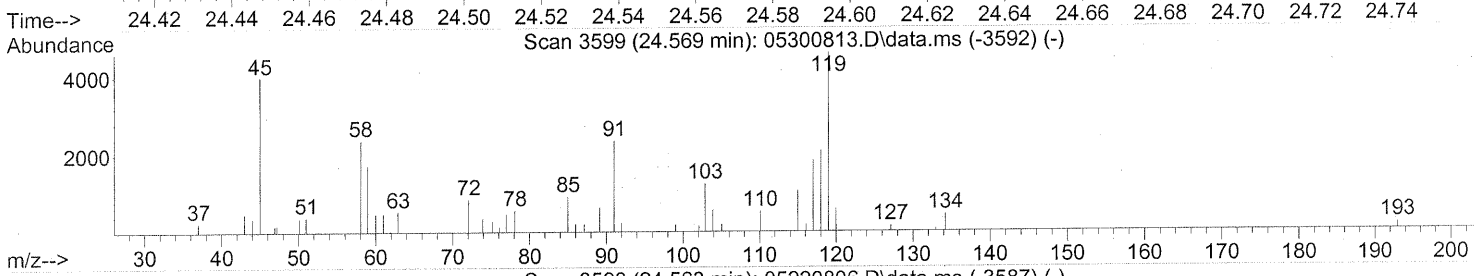
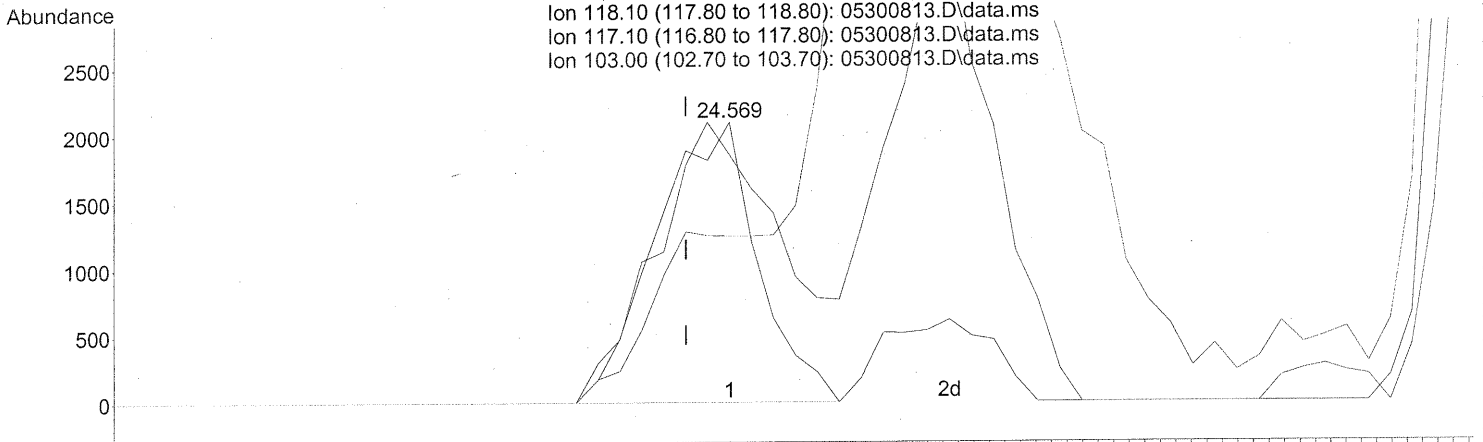
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	126.06#
103.00	55.30	61.53
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.569min (+0.011) 0.09ng

response 3837

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	126.06#
103.00	55.30	61.53
0.00	0.00	0.00

AFTER SUBTRACTION

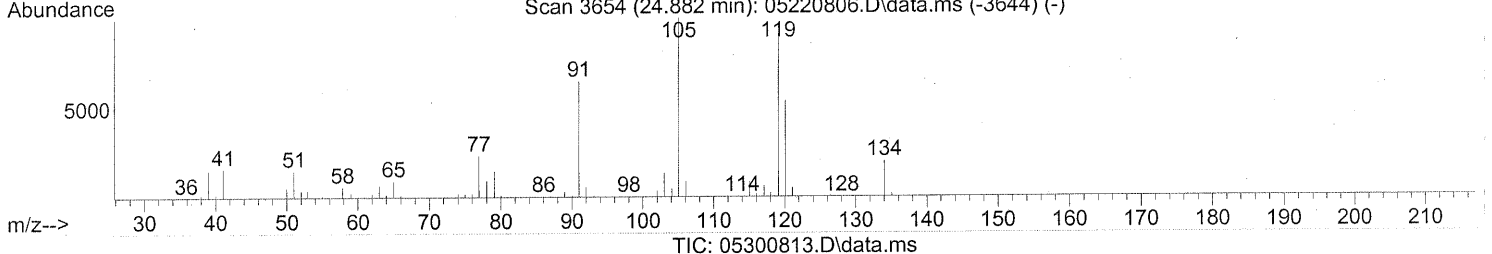
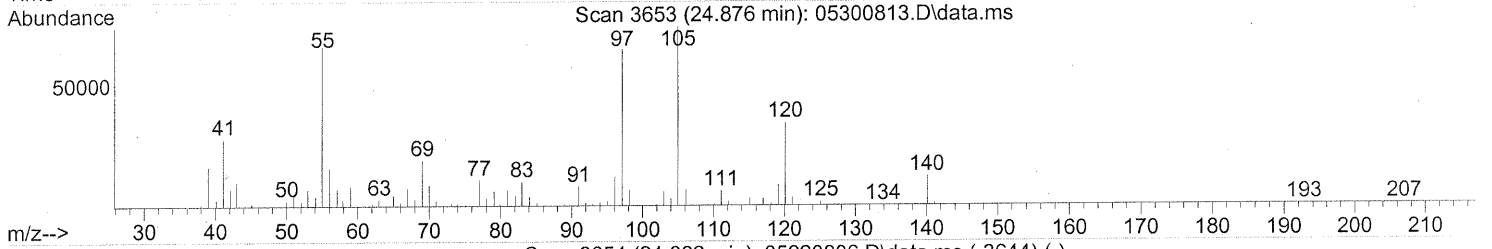
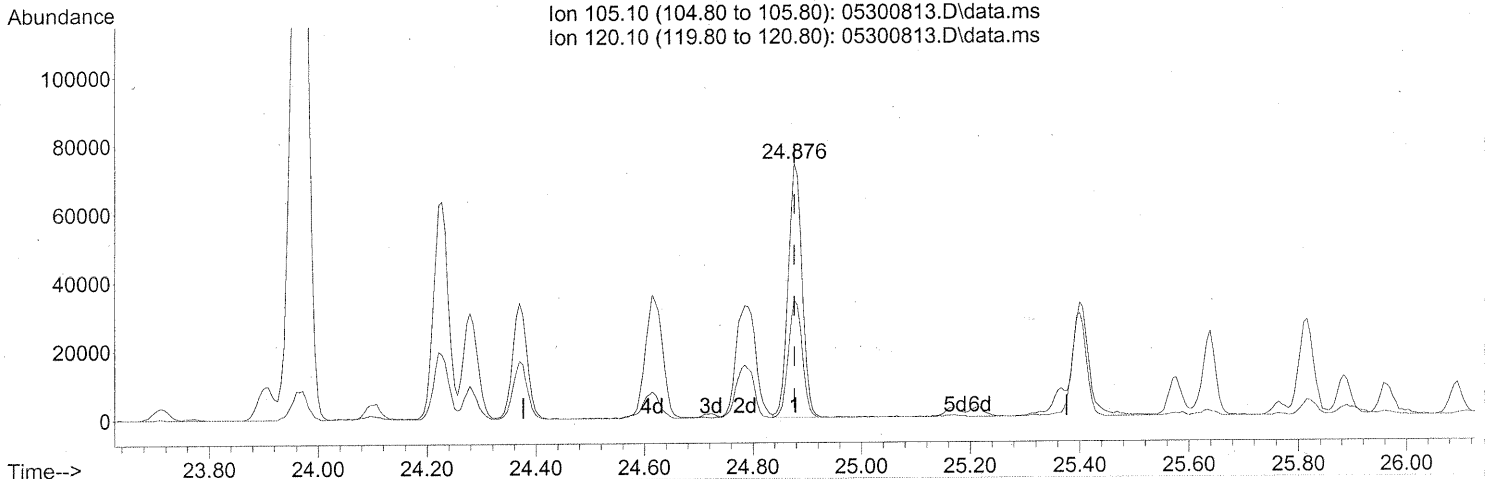
6/06/08

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 1.70ng

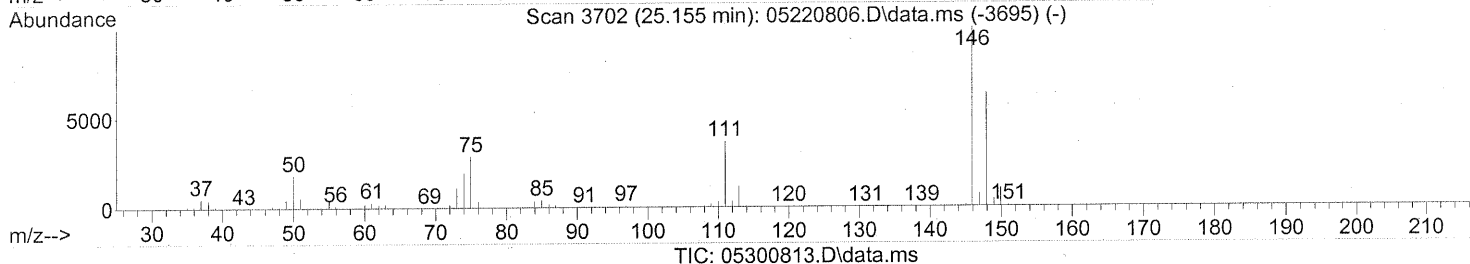
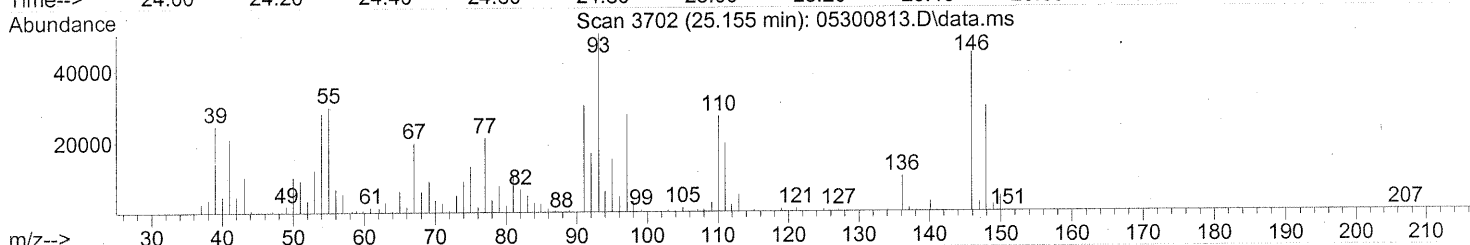
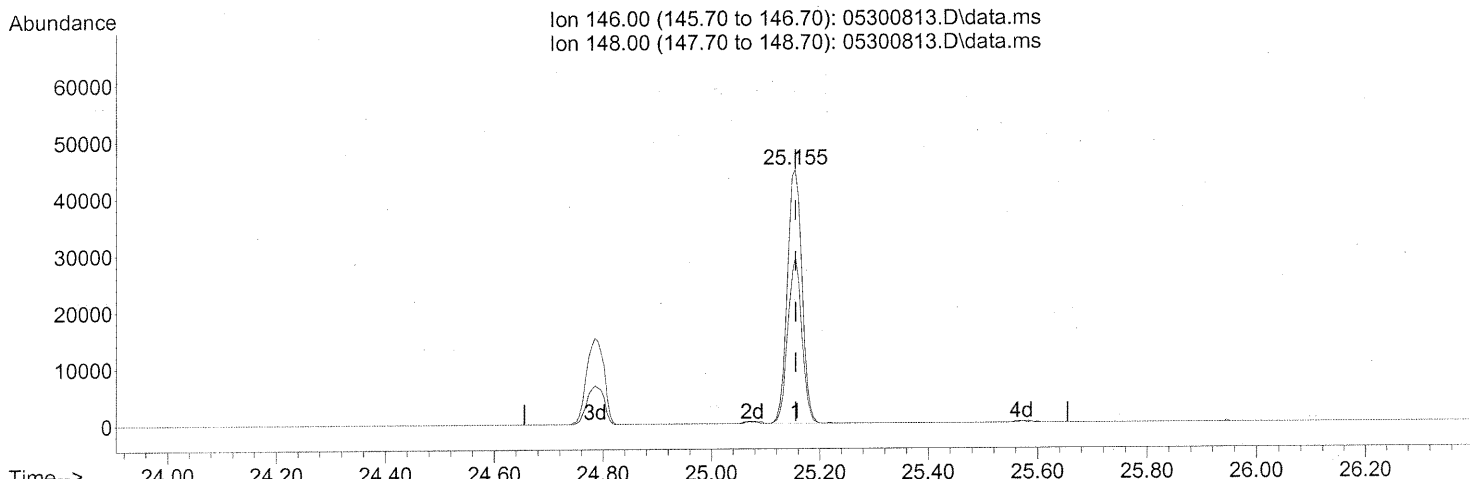
response 133148

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.76ng

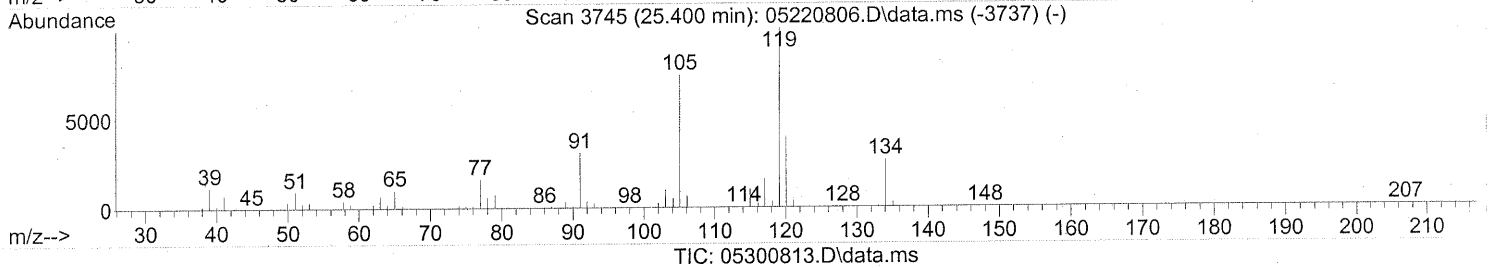
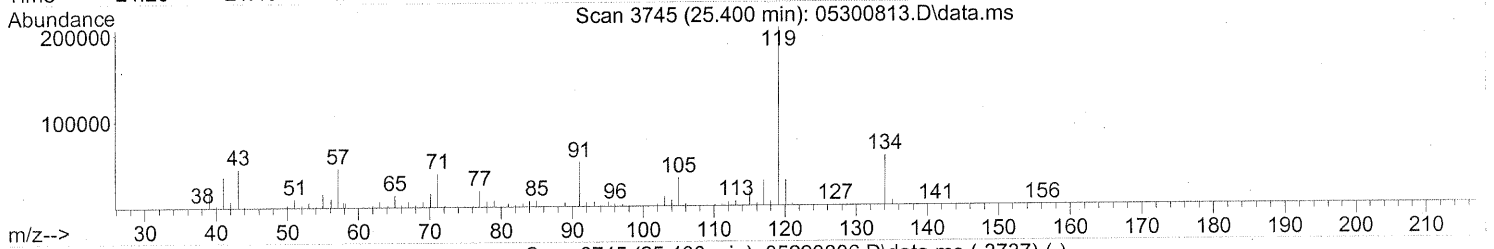
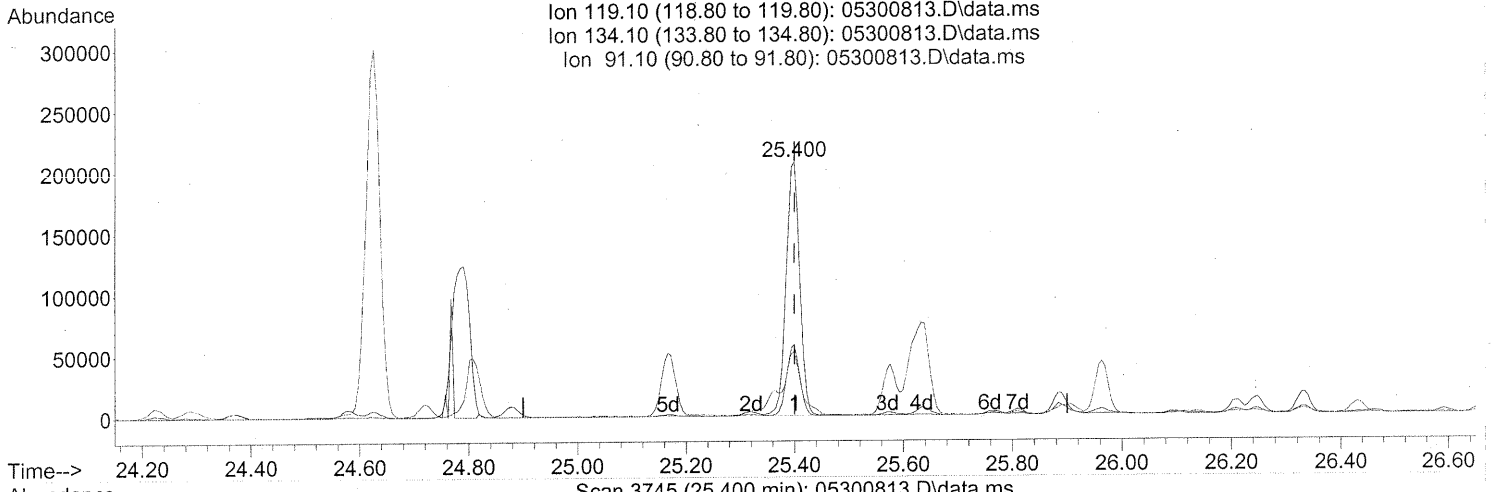
response 83623

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	62.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 4.38ng

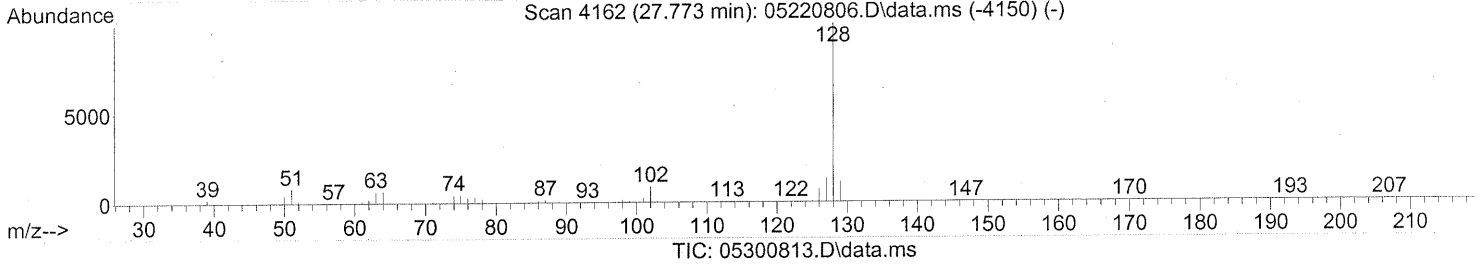
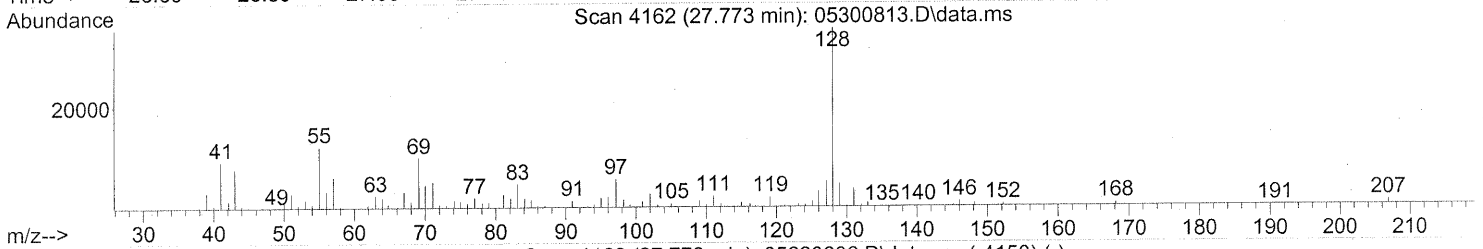
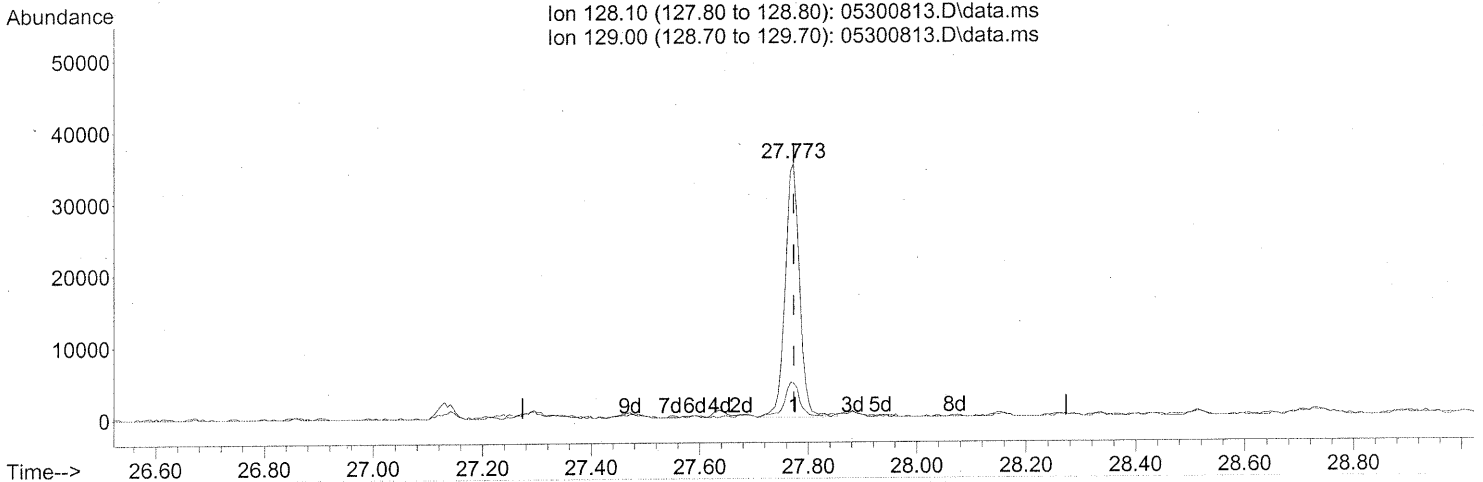
response 361731

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	27.11
91.10	27.10	38.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



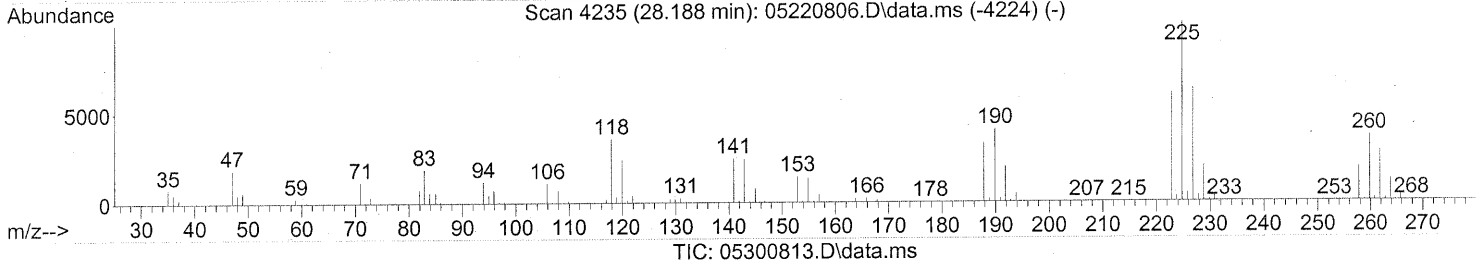
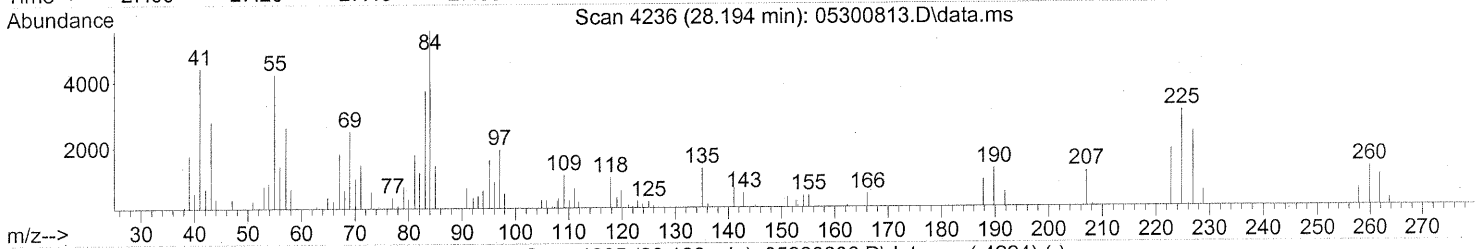
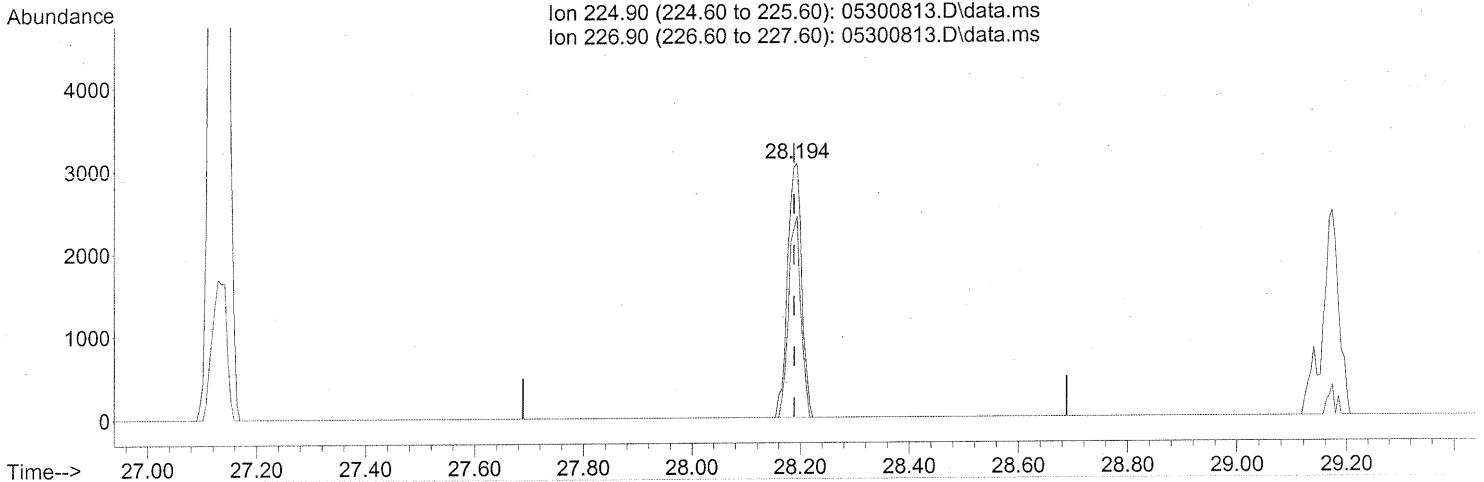
(95) Naphthalene (T)  
27.773min (-0.000) 0.63ng  
response 65012

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	15.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 20:06:34 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

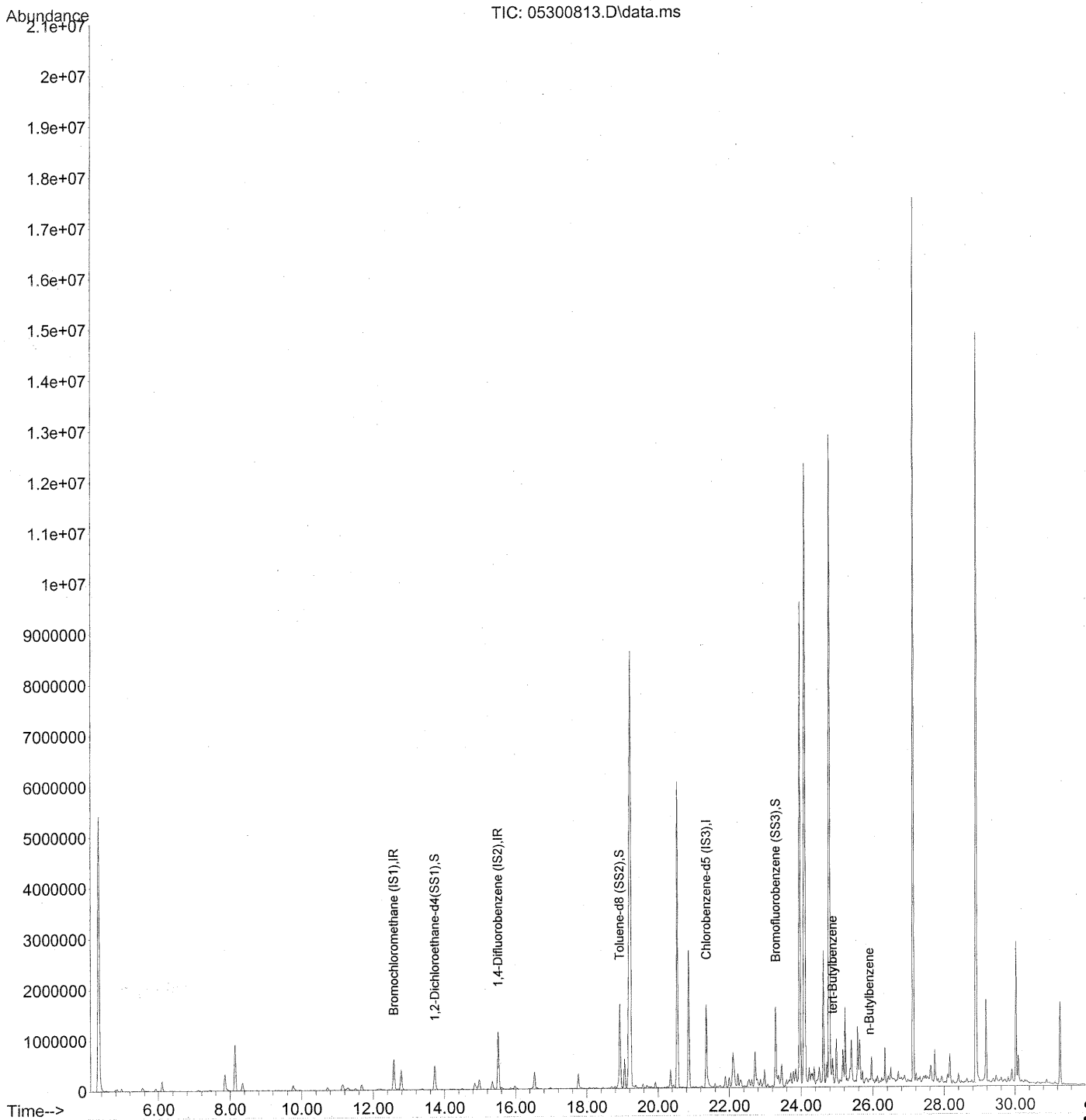
28.194min (+0.006) 0.24ng

response 5519

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	68.83
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300813.D  
Acq On : 30 May 2008 5:27 pm  
Operator : WA  
Sample : P0801548-004 (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5) ✓  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:36 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:36 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	316100	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1368107	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	638908	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	505118	23.062	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.24%	✓
5) Toluene-d8 (SS2)	18.92	98	1439626	25.089	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.36%	✓
6) Bromofluorobenzene (SS3)	23.29	174	613988	26.313	ng	0.00
Spiked Amount	25.000		Recovery	=	105.24%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	16225	<del>0.216</del>	ng	# No; NF 54
8) n-Butylbenzene	25.90	91	20452	0.246	ng	# 61

*Fac/08/08*

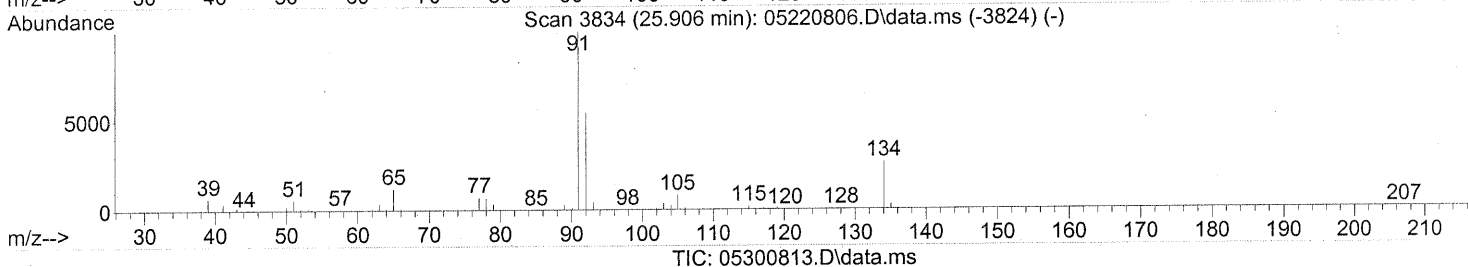
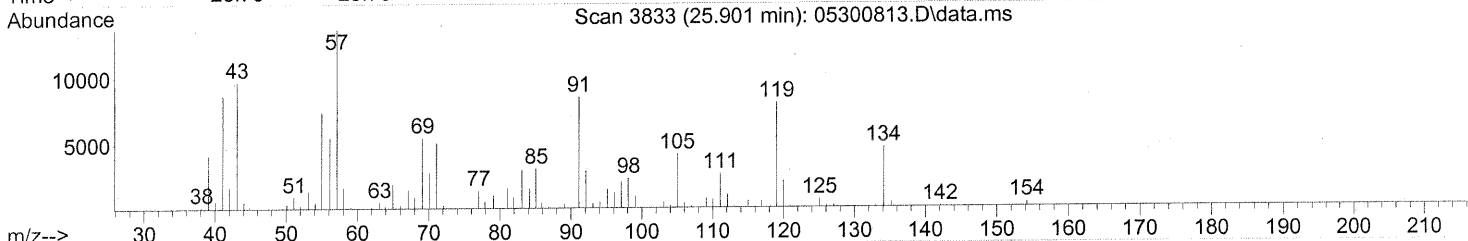
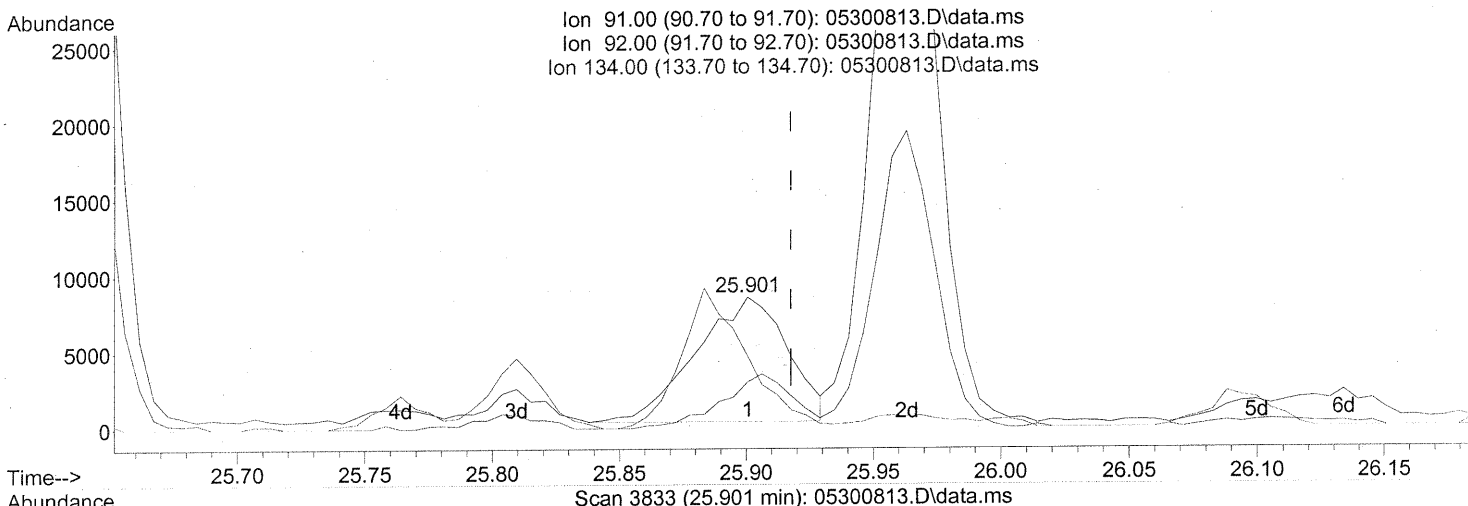
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Fac/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300813.D  
 Acq On : 30 May 2008 5:27 pm  
 Operator : WA  
 Sample : P0801548-004 (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:36 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.901min (-0.017) 0.25ng

response 20452

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	32.91#
134.00	28.80	0.00#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG67B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-005

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00533

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	0.84	0.084	0.43	0.17	0.017	
74-87-3	Chloromethane	0.13	0.17	0.084	0.064	0.081	0.040	J
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.84	0.084	ND	0.12	0.012	
75-01-4	Vinyl Chloride	0.52	0.17	0.084	0.20	0.065	0.033	
74-83-9	Bromomethane	0.25	0.17	0.084	0.064	0.043	0.022	
75-00-3	Chloroethane	0.44	0.17	0.084	0.17	0.063	0.032	
64-17-5	Ethanol	2.8	8.4	0.084	1.5	4.4	0.044	J
67-64-1	Acetone	41	8.4	0.12	17	3.5	0.051	B
75-69-4	Trichlorofluoromethane	5.7	0.17	0.084	1.0	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.84	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	9.0	0.17	0.084	2.3	0.042	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	5.9	0.84	0.12	1.9	0.28	0.041	
75-09-2	Methylene Chloride	0.34	0.84	0.084	0.098	0.24	0.024	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.084	ND	0.053	0.027	
76-13-1	Trichlorotrifluoroethane	0.56	0.17	0.094	0.073	0.022	0.012	
75-15-0	Carbon Disulfide	5.4	0.84	0.20	1.7	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
75-34-3	1,1-Dichloroethane	77	0.17	0.084	19	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	0.19	0.17	0.084	0.053	0.046	0.023	
108-05-4	Vinyl Acetate	12	8.4	0.27	3.5	2.4	0.076	
78-93-3	2-Butanone (MEK)	9.3	0.84	0.084	3.2	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.084	ND	0.042	0.021	
108-20-3	Diisopropyl Ether	ND	0.84	0.099	ND	0.20	0.024	
67-66-3	Chloroform	62	0.17	0.099	13	0.034	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR

**Client Sample ID:** SG67B-05

**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

CAS Sample ID: P0801548-005

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00533

Date Collected: 5/21/08

Date Received: 5/23/08

Date Analyzed: 5/31/08

Volume(s) Analyzed: 1.00 Liter(s)

0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.84	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.084	ND	0.041	0.021	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>9.3</b>	0.17	0.084	<b>1.7</b>	0.031	0.015	
71-43-2	<b>Benzene</b>	<b>6.6</b>	0.17	0.084	<b>2.1</b>	0.052	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.47</b>	0.17	0.084	<b>0.075</b>	0.027	0.013	
994-05-8	tert-Amyl Methyl Ether	ND	0.84	0.084	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.084	ND	0.036	0.018	
75-27-4	<b>Bromodichloromethane</b>	<b>0.16</b>	0.17	0.084	<b>0.024</b>	0.025	0.012	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>23</b>	0.17	0.084	<b>4.2</b>	0.031	0.016	
123-91-1	<b>1,4-Dioxane</b>	<b>4.2</b>	0.84	0.10	<b>1.2</b>	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.84	0.13	ND	0.20	0.031	
142-82-5	<b>n-Heptane</b>	<b>2.0</b>	0.84	0.11	<b>0.49</b>	0.20	0.026	
10061-01-5	cis-1,3-Dichloropropene	ND	0.84	0.087	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>4.5</b>	0.84	0.094	<b>1.1</b>	0.20	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.84	0.11	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.084	ND	0.031	0.015	
108-88-3	<b>Toluene</b>	<b>13</b>	0.84	0.084	<b>3.5</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>1.1</b>	0.84	0.13	<b>0.26</b>	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.020	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	<b>n-Octane</b>	<b>4.7</b>	0.84	0.084	<b>1.0</b>	0.18	0.018	
127-18-4	<b>Tetrachloroethene</b>	<b>230</b>	0.17	0.084	<b>34</b>	0.025	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>1.9</b>	0.17	0.085	<b>0.42</b>	0.036	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG67B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-005

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00533

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.10 Liter(s)

Initial Pressure (psig): -3.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.8	0.84	0.10	0.87	0.19	0.024	
179601-23-1	m,p-Xylenes	18	0.84	0.22	4.2	0.19	0.050	
75-25-2	Bromoform	ND	0.84	0.13	ND	0.081	0.012	
100-42-5	Styrene	0.42	0.84	0.13	0.099	0.20	0.030	J
95-47-6	o-Xylene	7.8	0.84	0.11	1.8	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.016	
98-82-8	Cumene	0.60	0.84	0.094	0.12	0.17	0.019	J
103-65-1	n-Propylbenzene	ND	0.84	0.087	ND	0.17	0.018	
622-96-8	4-Ethyltoluene	0.76	0.84	0.095	0.16	0.17	0.019	J
108-67-8	1,3,5-Trimethylbenzene	3.1	0.84	0.10	0.64	0.17	0.020	
98-83-9	alpha-Methylstyrene	0.51	0.84	0.12	0.10	0.17	0.025	J
95-63-6	1,2,4-Trimethylbenzene	6.3	0.84	0.12	1.3	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	1,3-Dichlorobenzene	0.19	0.17	0.10	0.032	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	7.1	0.17	0.094	1.2	0.028	0.016	
135-98-8	sec-Butylbenzene	0.80	0.84	0.097	0.15	0.15	0.018	J
99-87-6	4-Isopropyltoluene (p-Cymene)	5.2	0.84	0.11	0.95	0.15	0.020	
95-50-1	1,2-Dichlorobenzene	0.93	0.17	0.11	0.15	0.028	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.84	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.023	0.017	
91-20-3	Naphthalene	ND	0.33	0.12	ND	0.064	0.024	
87-68-3	Hexachlorobutadiene	0.15	0.17	0.15	0.014	0.016	0.014	J
98-06-6	tert-Butylbenzene	1.0	0.33	0.084	0.18	0.061	0.015	
104-51-8	n-Butylbenzene	ND	0.33	0.084	ND	0.061	0.015	

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

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

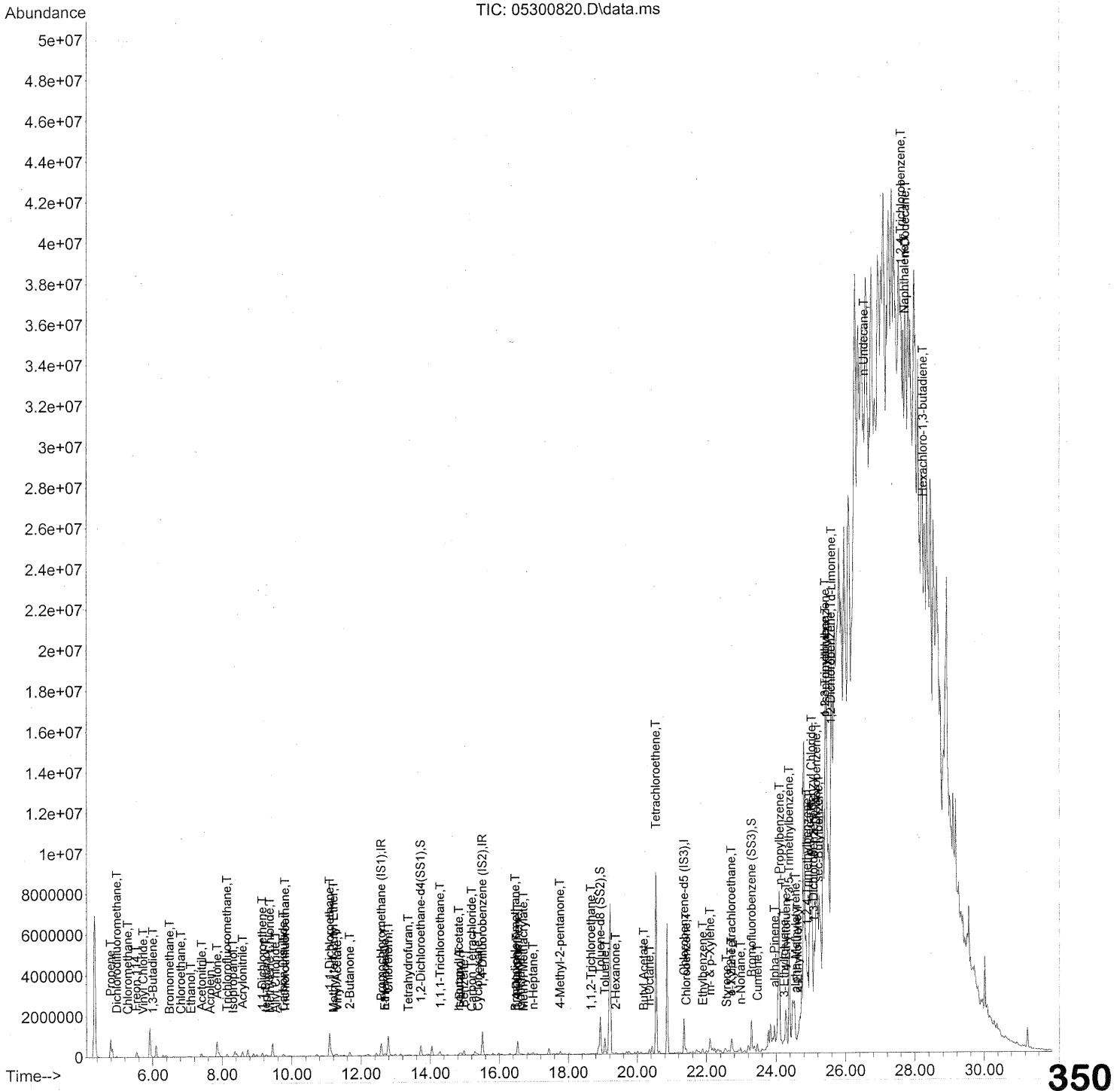
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/16/08

**349**

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	319747	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1364863	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	649247	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	511152	23.071	ng	0.00
Spiked Amount	25.000		Recovery	=	92.28%	✓
57) Toluene-d8 (SS2)	18.93	98	1451074	24.886	ng	0.00
Spiked Amount	25.000		Recovery	=	99.56%	✓
73) Bromofluorobenzene (SS3)	23.29	174	611782	25.801	ng	0.00
Spiked Amount	25.000		Recovery	=	103.20%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	457303	18.109	ng	# 87
3) Dichlorodifluoromethane	4.96	85	59871	1.286	ng	99
4) Chloromethane	5.28	50	2368	0.079	ng	83
5) Freon 114	5.52	135	933	<del>0.041</del>	<del>ng</del>	80
6) Vinyl Chloride	5.72	62	9390	0.311	ng	90
7) 1,3-Butadiene	6.00	54	8970	0.400	ng	# 50
8) Bromomethane	6.48	94	2508	0.149	ng	97
9) Chloroethane	6.81	64	3772	0.263	ng	100
10) Ethanol	7.10	45	28143m	1.674	ng	
11) Acetonitrile	7.41	41	67571	1.390	ng	# 26
12) Acrolein	7.65	56	8111	0.675	ng	77
13) Acetone	7.85	58	424605	24.668	ng	# 64
14) Trichlorofluoromethane	8.14	101	137115	3.433	ng	99
15) Isopropanol	8.31	45	70232	1.279	ng	87
16) Acrylonitrile	8.59	53	28444	<del>1.085</del>	<del>ng</del>	# 26
17) 1,1-Dichloroethene	9.15	96	95010	5.409	ng	# 76
18) tert-Butanol	9.25	59	164659	3.526	ng	86
19) Methylene Chloride	9.36	84	3930	0.204	ng	91
20) Allyl Chloride	9.53	41	5097	<del>0.199</del>	<del>ng</del>	# 44
21) Trichlorotrifluoroethane	9.81	151	6060	0.334	ng	89
22) Carbon Disulfide	9.76	76	235843	3.231	ng	98
23) trans-1,2-Dichloroethene	10.72	61	1125	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	1545056	46.288	ng	95
25) Methyl tert-Butyl Ether	11.21	73	6340m	0.114	ng	
26) Vinyl Acetate	11.31	86	23737	7.462	ng	# 1
27) 2-Butanone	11.67	72	70097	5.580	ng	93
28) cis-1,2-Dichloroethene	12.45	61	400	N.D.	✓	
29) Diisopropyl Ether	12.70	87	277	N.D.	✓	
30) Ethyl Acetate	12.69	61	6797	1.002	ng	# 66
31) n-Hexane	12.70	57	51739	1.512	ng	87

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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	1083556	37.163	ng	100
34) Tetrahydrofuran	13.36	72	12638	1.052	ng #	87
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.90	62	500	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	172766	5.558	ng	95
39) Isopropyl Acetate	14.83	61	3630	0.311	ng #	1
40) 1-Butanol	14.85	56	109515	5.838	ng	99
41) Benzene	14.98	78	280377	3.923	ng	100
42) Carbon Tetrachloride	15.21	117	7753	0.282	ng	99
43) Cyclohexane	15.39	84	5075	0.183	ng #	1
44) tert-Amyl Methyl Ether	15.87	73	1823	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	58	N.D.	✓	
46) Bromodichloromethane	16.46	83	2357	0.098	ng	83
47) Trichloroethene	16.53	130	296331	13.517	ng	100
48) 1,4-Dioxane	16.49	88	33964	2.520	ng	86
49) Isooctane	16.62	57	35167	0.429	ng	47
50) Methyl Methacrylate	16.70	100	4675	0.655	ng	1
51) n-Heptane	16.98	71	22811	1.201	ng #	83
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.76	58	51075	2.692	ng	78
54) trans-1,3-Dichloropropene	18.43	75	174	N.D.	✓	
55) 1,1,2-Trichloroethane	18.67	97	746	0.042	ng	7
58) Toluene	19.06	91	630890	7.960	ng	97
59) 2-Hexanone	19.37	43	34957	0.640	ng	80
60) Dibromochloromethane	19.61	129	231	N.D.	✓	
61) 1,2-Dibromoethane	19.75	107	53	N.D.	✓	
62) Butyl Acetate	20.19	43	6605	0.119	ng #	62
63) n-Octane	20.35	57	49696	2.835	ng	88
64) Tetrachloroethene	20.55	166	3420901	145.861	ng	100
65) Chlorobenzene	21.41	112	61823	1.163	ng	100
66) Ethylbenzene	21.89	91	205231	2.258	ng	94
67) m- & p-Xylene	22.10	91	668607	10.998	ng	91
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	13717	0.252	ng	93
70) o-Xylene	22.71	91	306549	4.671	ng	93
71) n-Nonane	22.98	43	200075	4.294	ng #	53
72) 1,1,2,2-Tetrachloroethane	22.71	83	3145	0.115	ng	17
74) Cumene	23.46	105	31237	0.357	ng	98
75) alpha-Pinene	23.96	93	166317	3.681	ng	98
76) n-Propylbenzene	24.10	91	37139	0.334	ng	1
77) 3-Ethyltoluene	24.23	105	95651	1.028	ng	99
78) 4-Ethyltoluene	24.28	105	39669	0.457	ng	98
79) 1,3,5-Trimethylbenzene	24.38	105	147349	1.881	ng	99

NOT NEEDED  
 NR  
 YES  
 Foc/15/08

See data

Foc/15/08



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	12843	0.303	ng	# 70
81) 2-Ethyltoluene	24.61	105	133643	1.418	ng	99
82) 1,2,4-Trimethylbenzene	24.89	105	302250	3.790	ng	90
83) n-Decane	24.96	57	1873172	42.685	ng	# 76
84) Benzyl Chloride	25.02	91	113933	2.129	ng	# 1
85) 1,3-Dichlorobenzene	25.08	146	5779	0.116	ng	97
86) 1,4-Dichlorobenzene	25.16	146	206638	4.275	ng	99
87) sec-Butylbenzene	25.22	105	48723	0.478	ng	# 82
88) p-Isopropyltoluene	25.42	119	263225	3.137	ng	# 1
89) 1,2,3-Trimethylbenzene	25.42	105	1686913	21.616	ng	86
90) 1,2-Dichlorobenzene	25.58	146	26267	0.555	ng	98
91) d-Limonene	25.60	68	1198811	37.727	ng	# 61
92) 1,2-Dibromo-3-Chloropr...	26.09	157	362	N.D.	✓	
93) n-Undecane	26.54	57	5802827	126.348	ng	# 23
94) 1,2,4-Trichlorobenzene	27.61	180	24611	0.710	ng	# 82
95) Naphthalene	27.72	128	56904	0.541	ng	# 1
96) n-Dodecane	27.74	57	4944040	108.245	ng	# 1
97) Hexachloro-1,3-butadiene	28.24	225	2073	0.090	ng	84

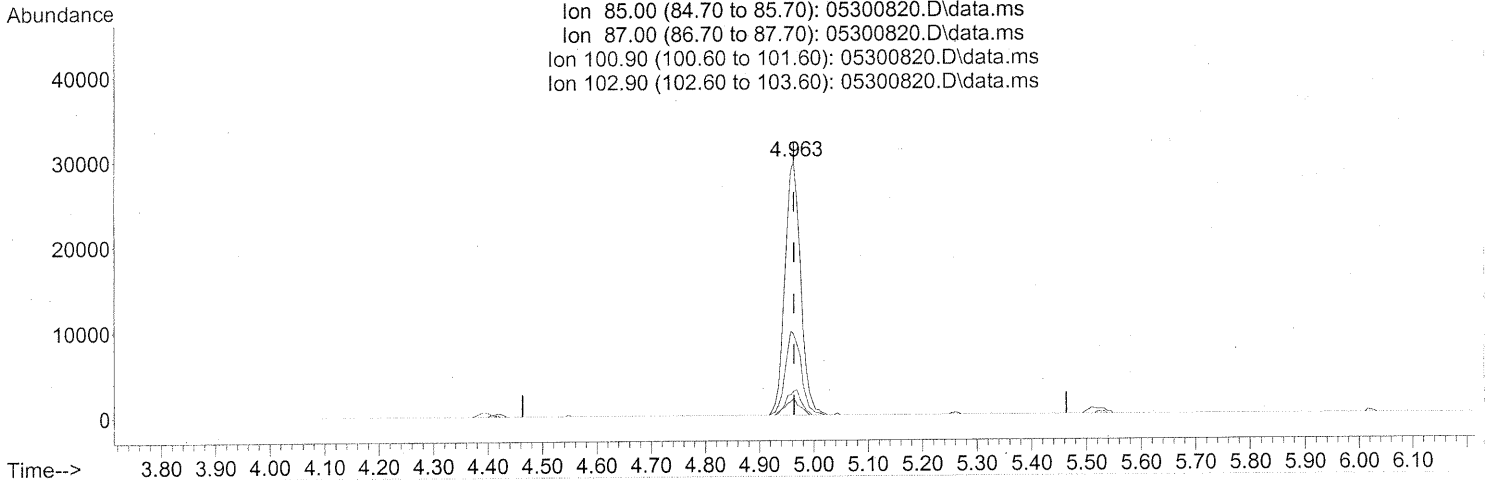
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*FOC/04/08*

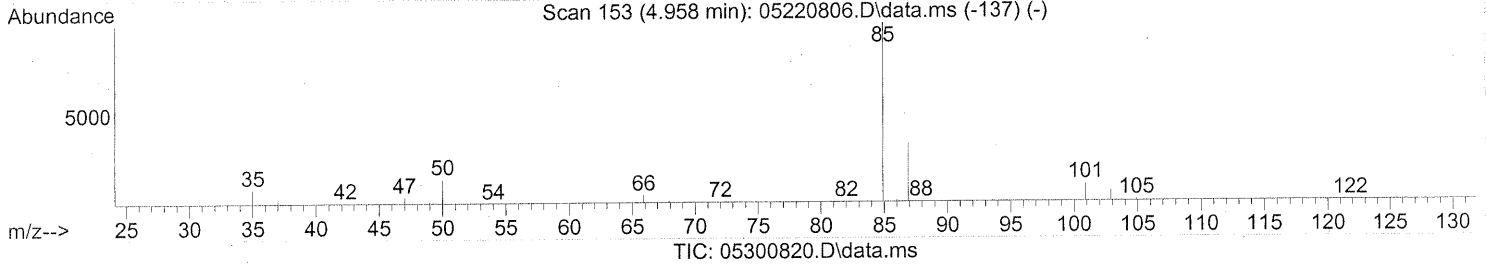
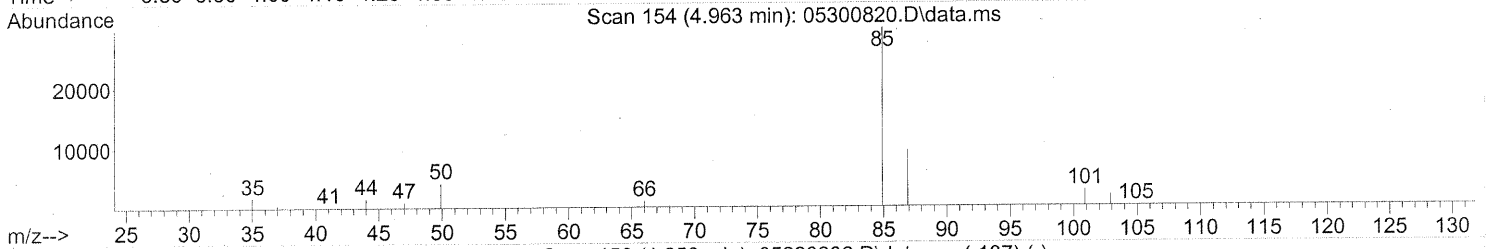
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 85.00 (84.70 to 85.70): 05300820.D\data.ms  
 Ion 87.00 (86.70 to 87.70): 05300820.D\data.ms  
 Ion 100.90 (100.60 to 101.60): 05300820.D\data.ms  
 Ion 102.90 (102.60 to 103.60): 05300820.D\data.ms



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.29ng

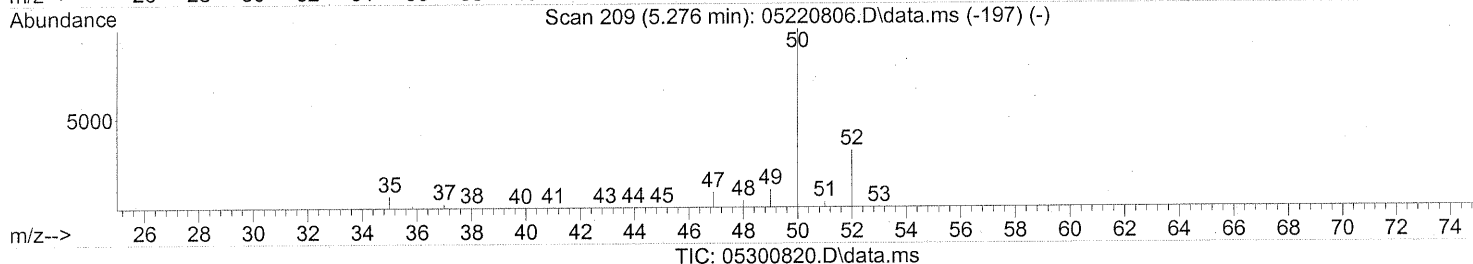
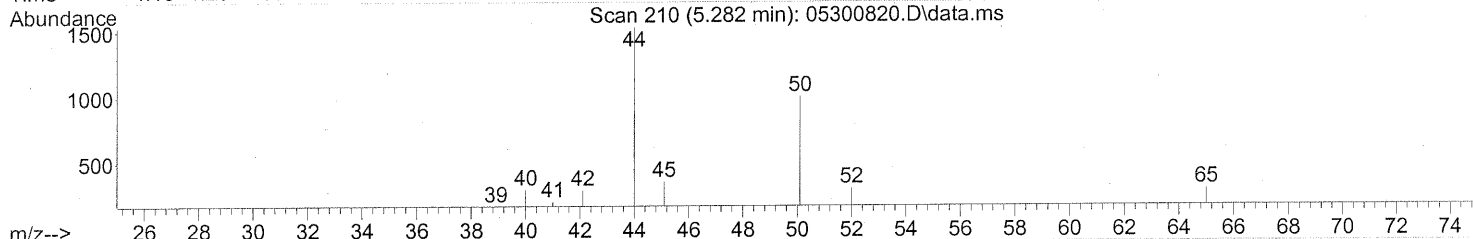
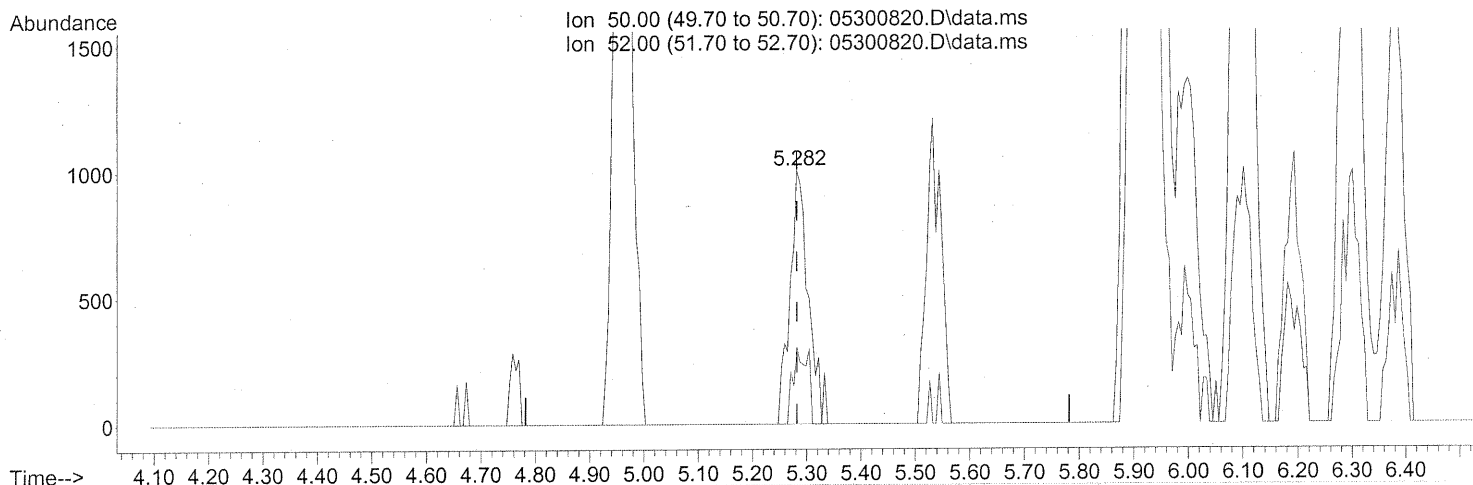
response 59871

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	33.44
100.90	9.30	9.42
102.90	6.00	5.73

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
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 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(4) Chloromethane (T)

5.282min (-0.000) 0.08ng

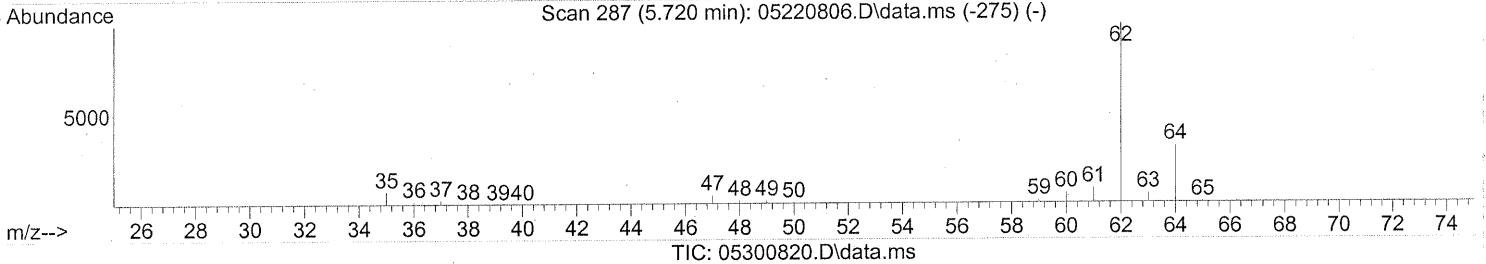
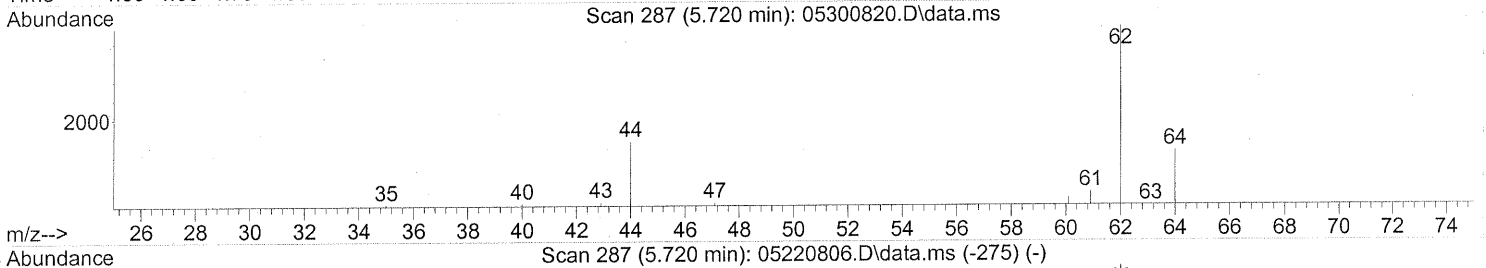
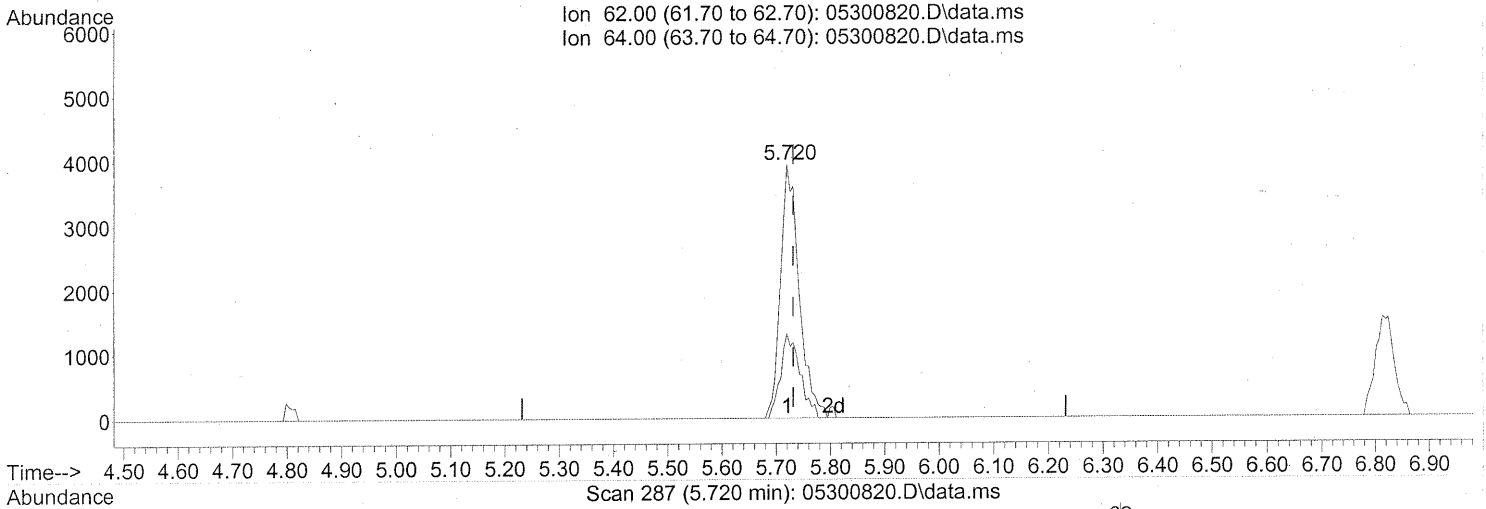
response 2368

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	24.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
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 Response via : Initial Calibration



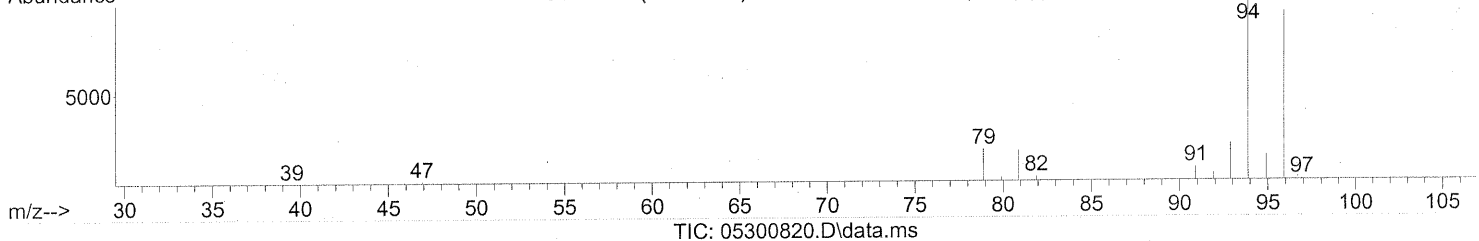
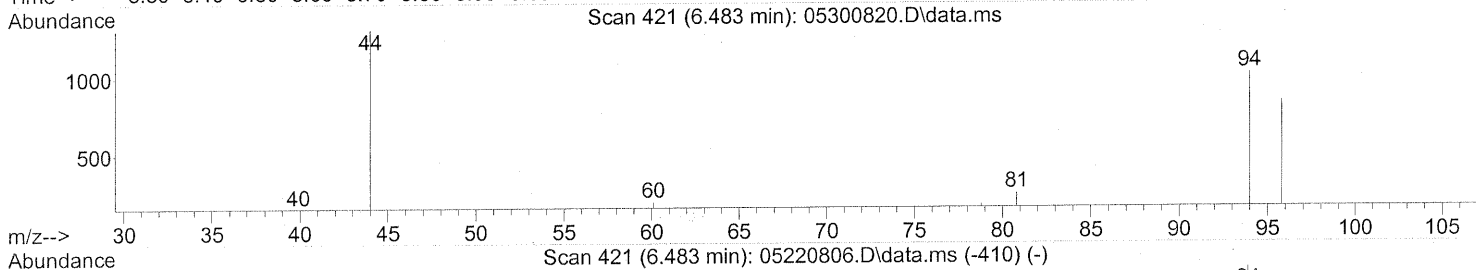
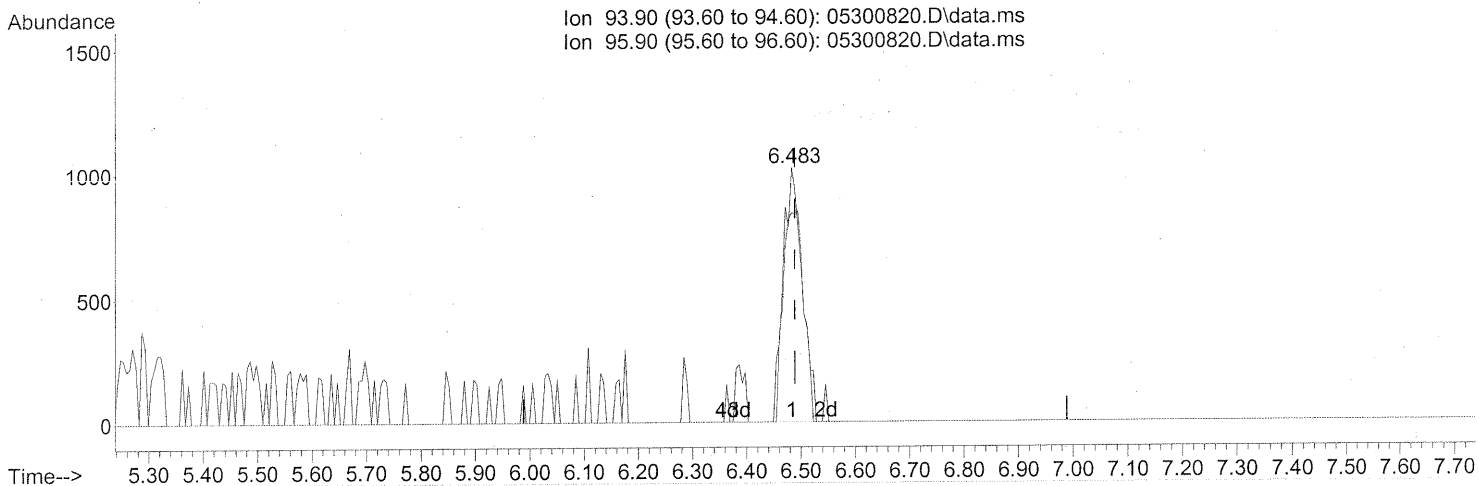
(6) Vinyl Chloride (T)  
 5.720min (-0.011) 0.31ng  
 response 9390

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	34.44
0.00	0.00	0.00
0.00	0.00	0.00

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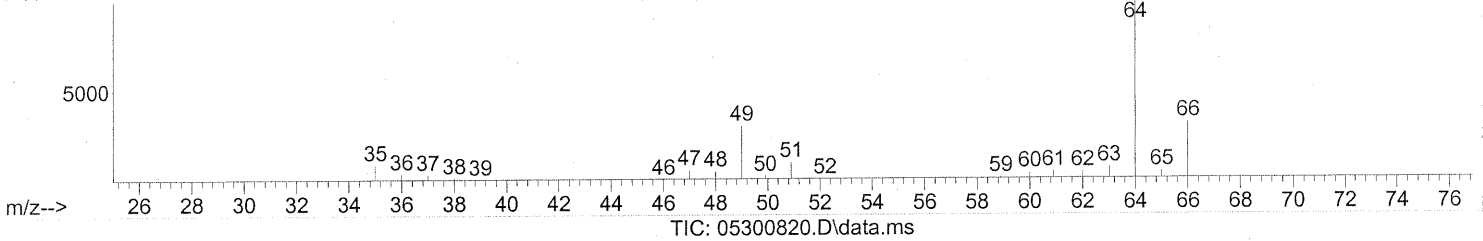
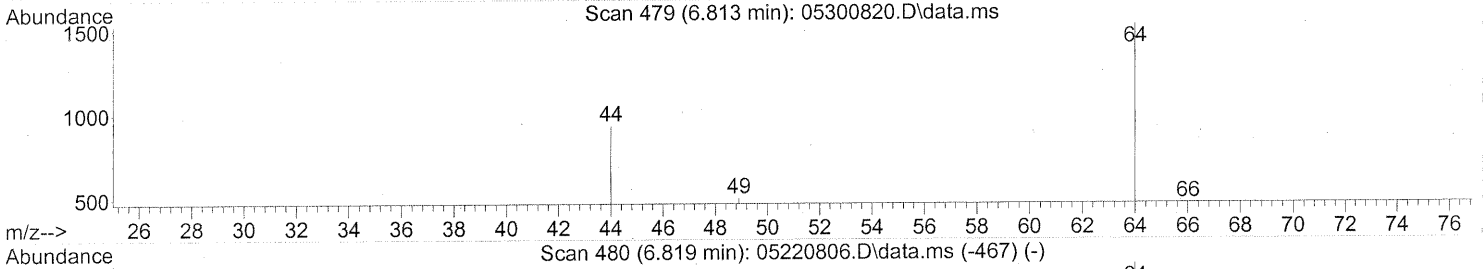
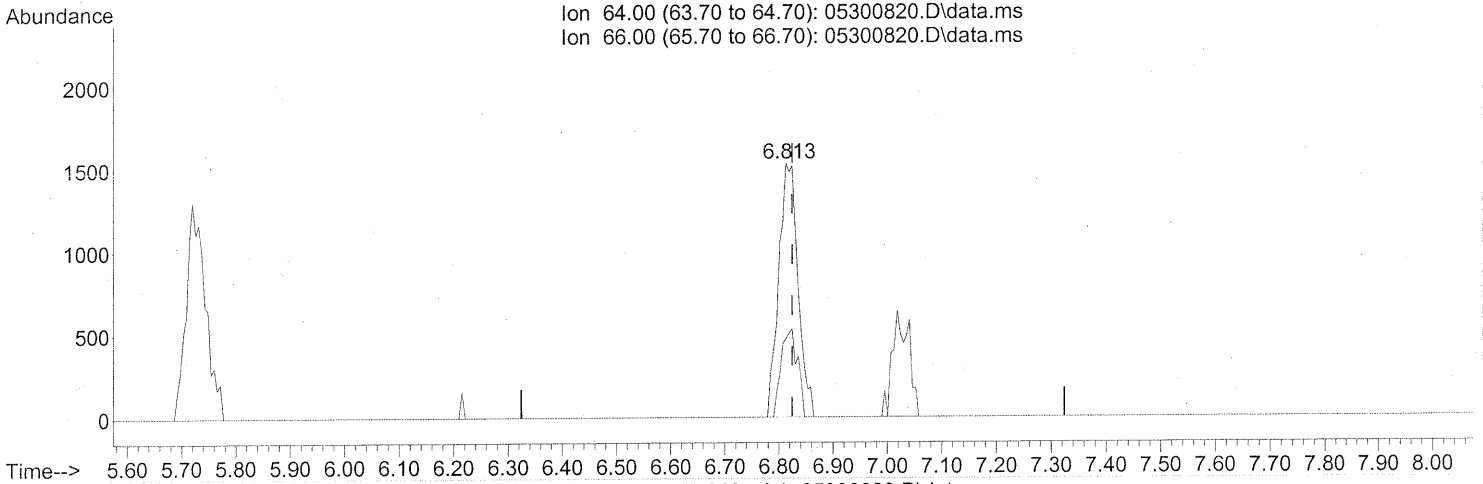
(8) Bromomethane (T)  
 6.483min (-0.006) 0.15ng  
 response 2508

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	89.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



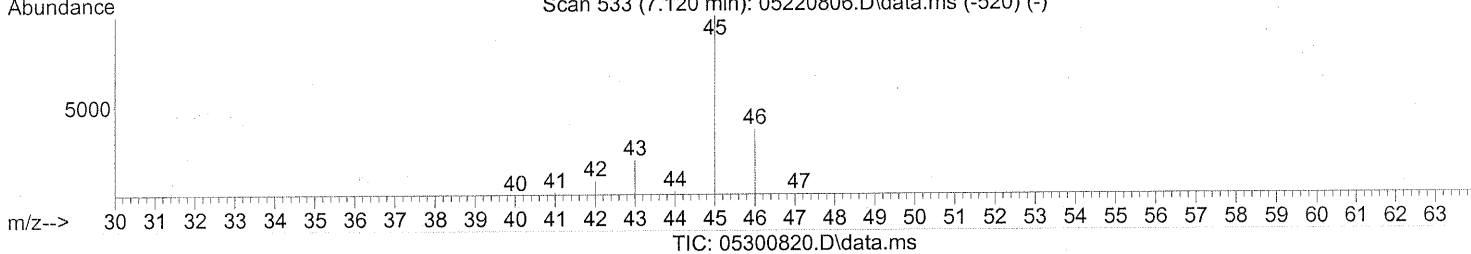
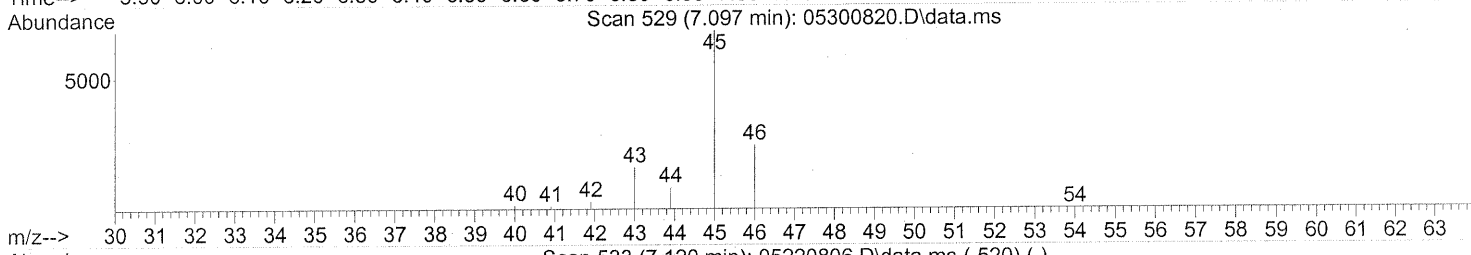
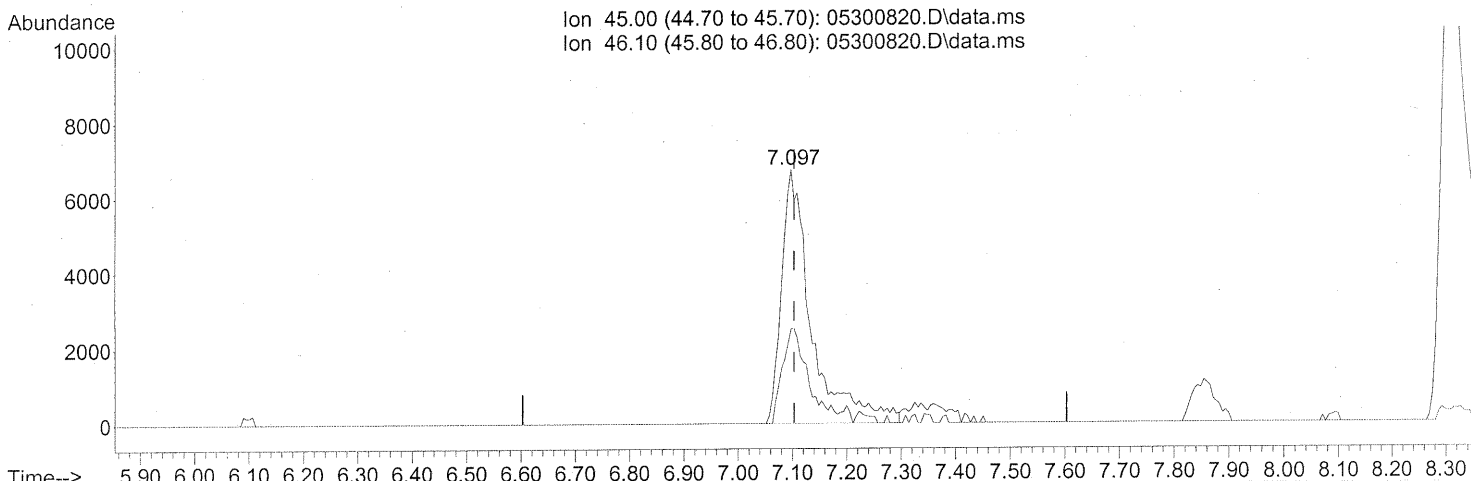
(9) Chloroethane (T)  
 6.813min (-0.011) 0.26ng  
 response 3772

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	29.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:07:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.097min (-0.006) 1.53ng  
response 25647

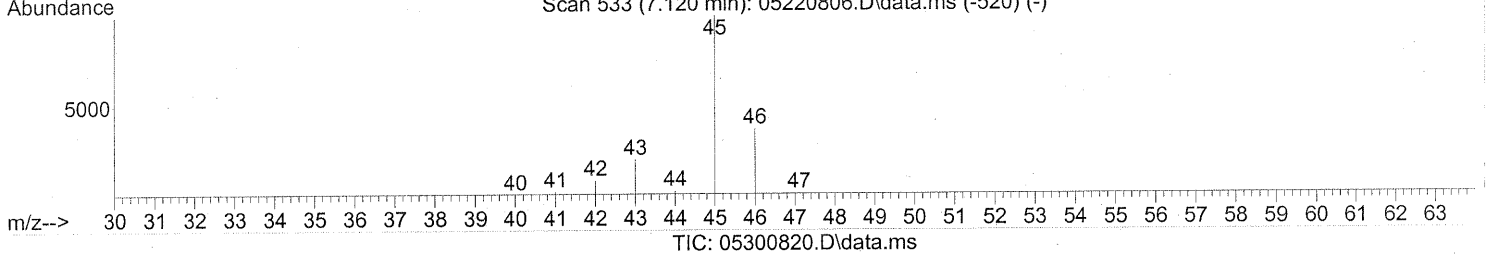
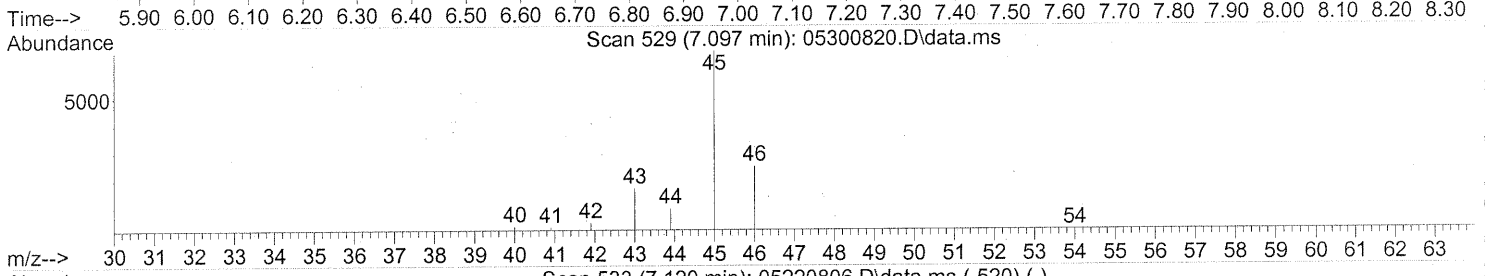
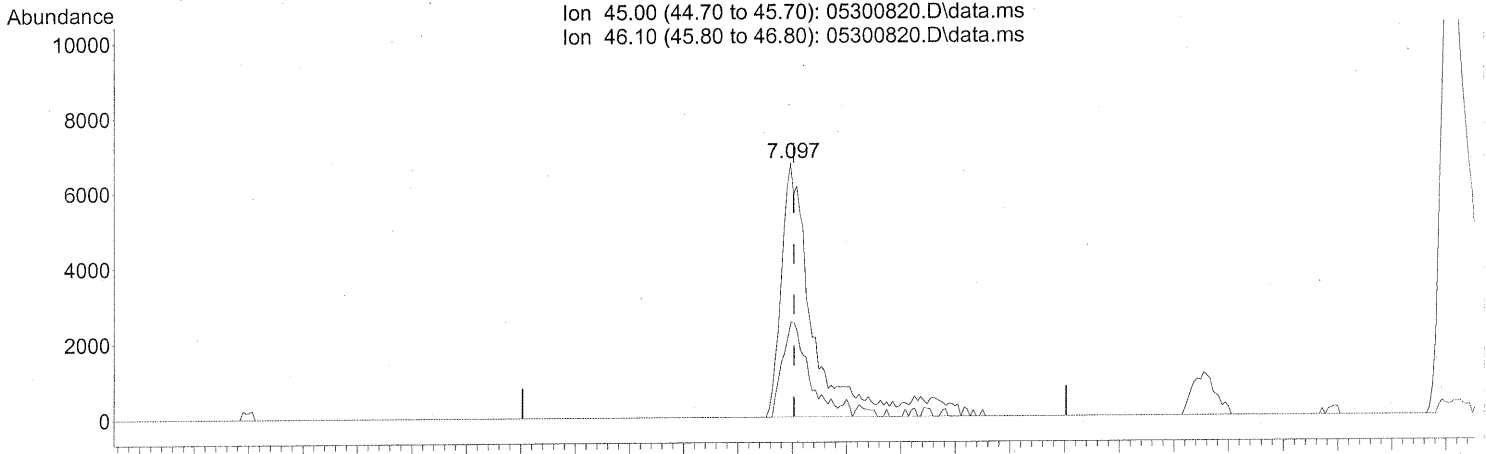
TAILING

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

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Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:07:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.097min (-0.006) 1.67ng m  
response 28143

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.39
0.00	0.00	0.00
0.00	0.00	0.00

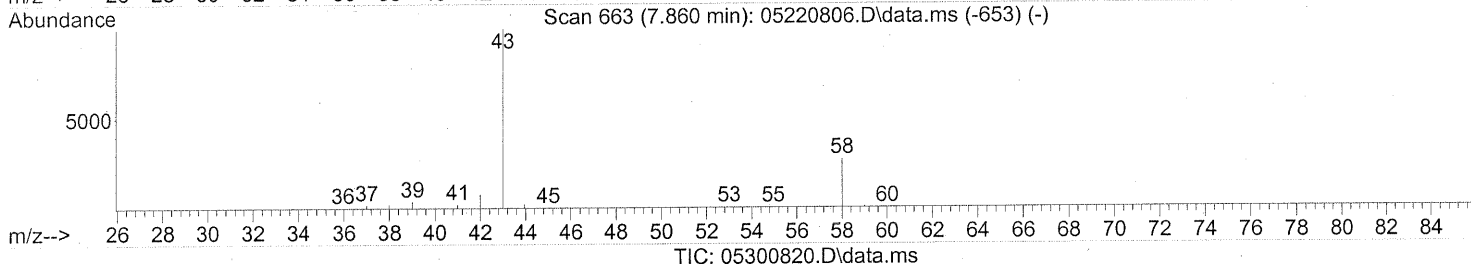
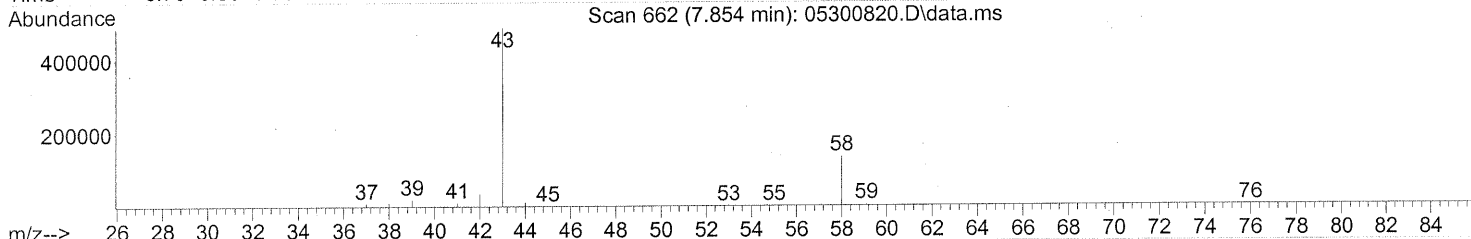
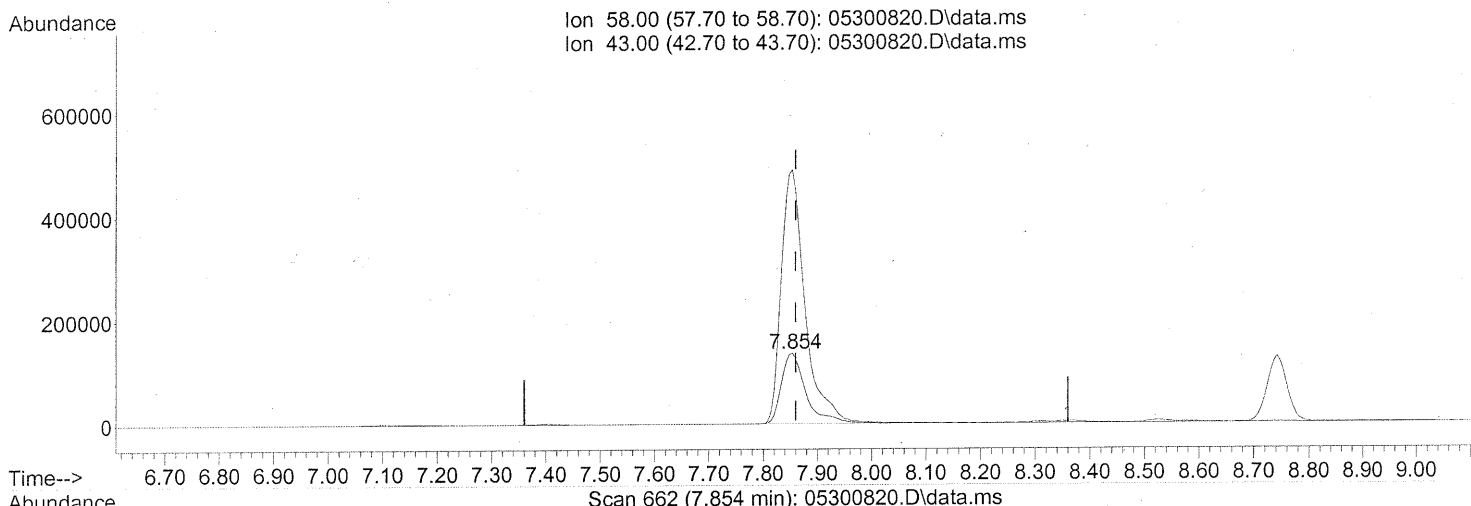
ADDED TAILING  
P06/05/08  
C. 6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 24.67ng

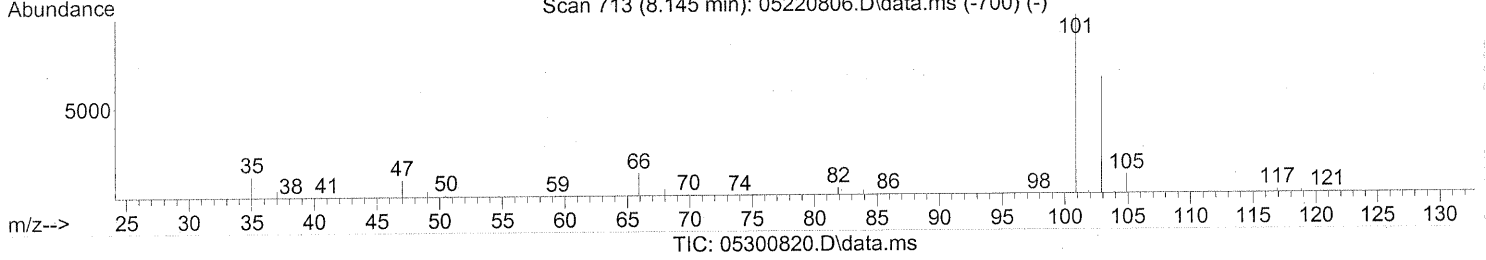
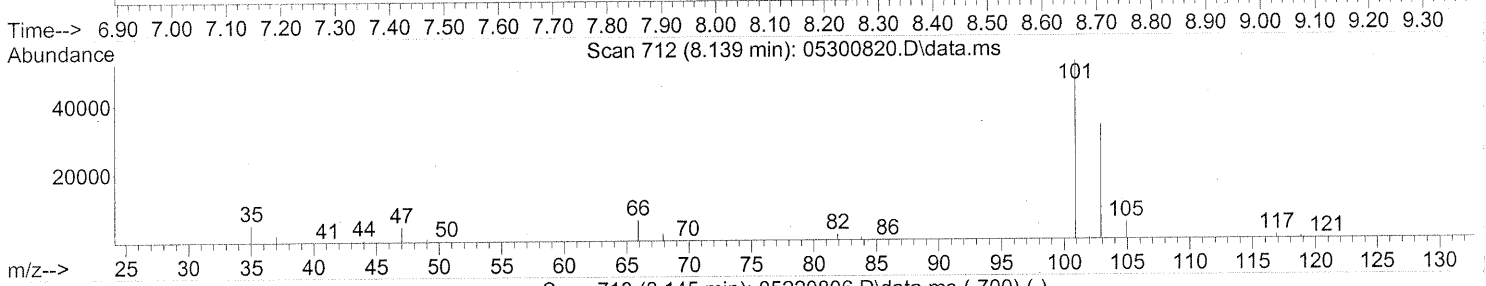
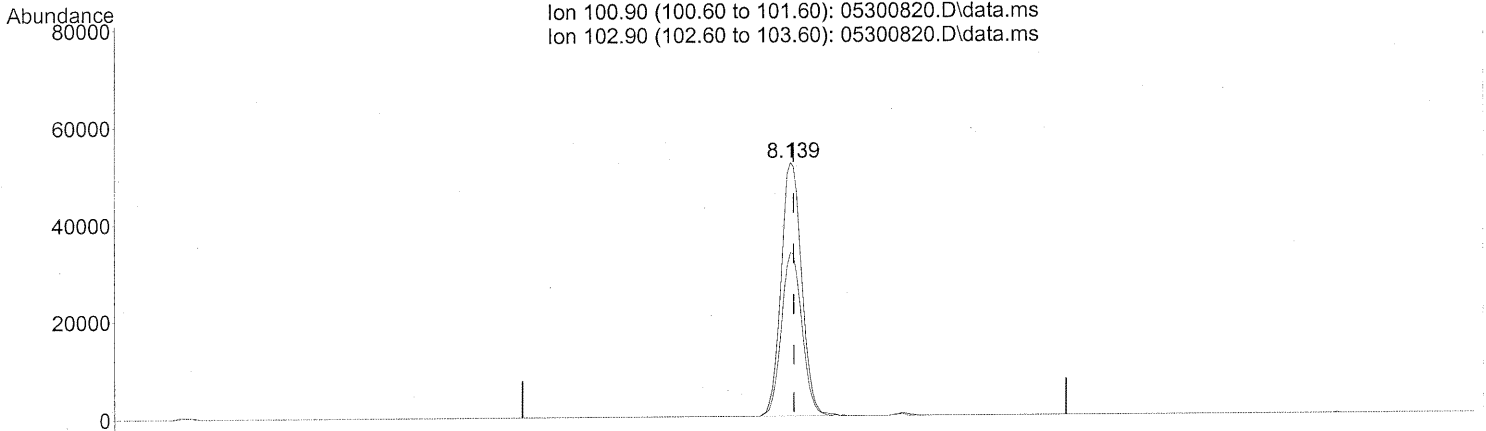
response 424605

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	351.99#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 3.43ng

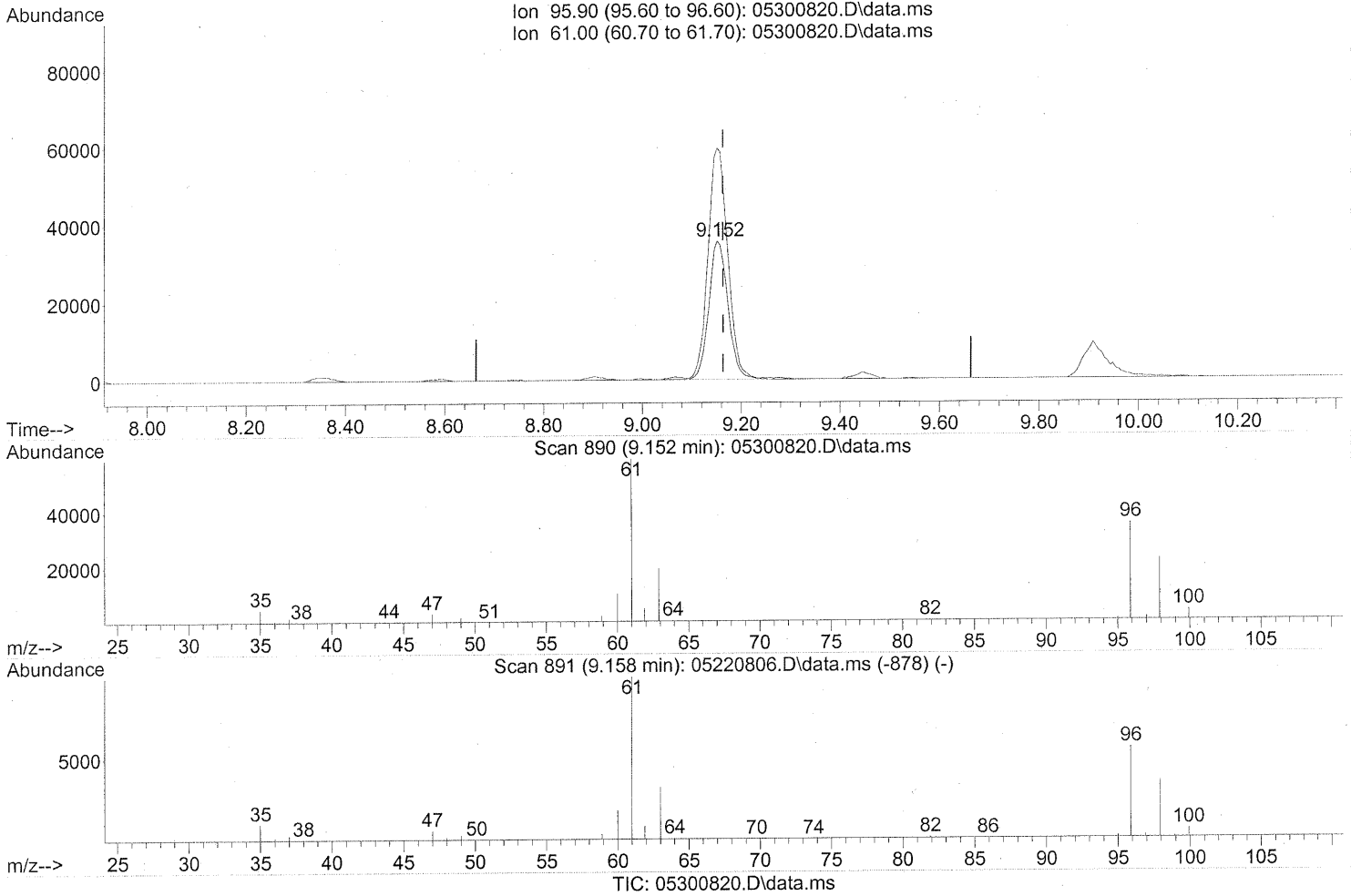
response 137115

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.152min (-0.011) 5.41ng

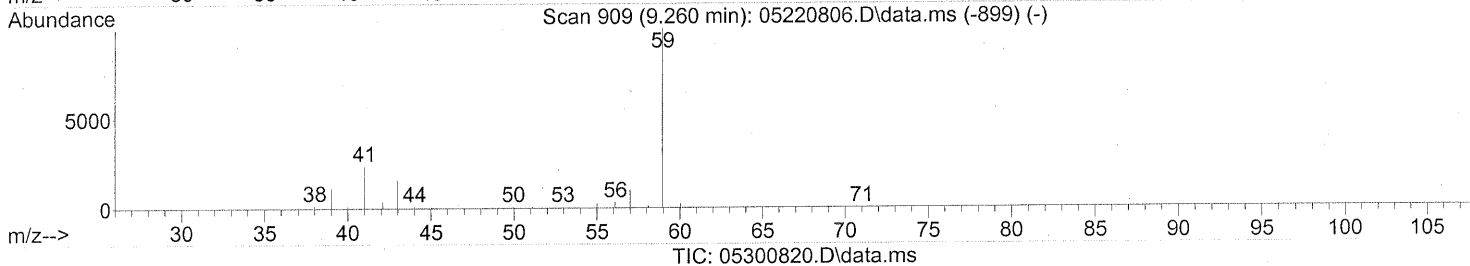
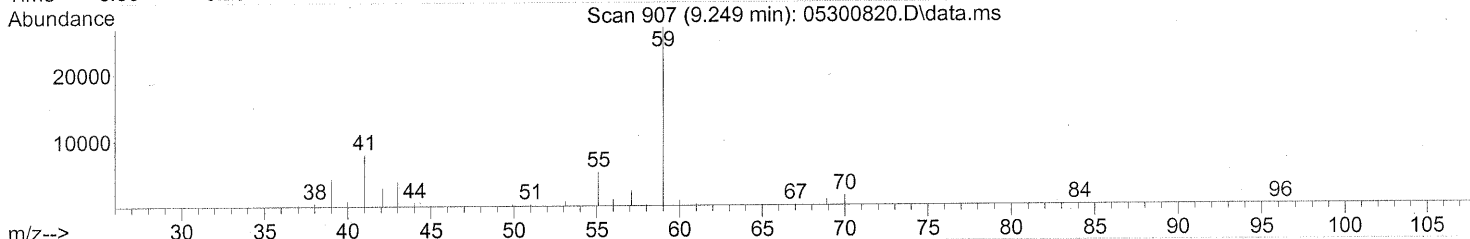
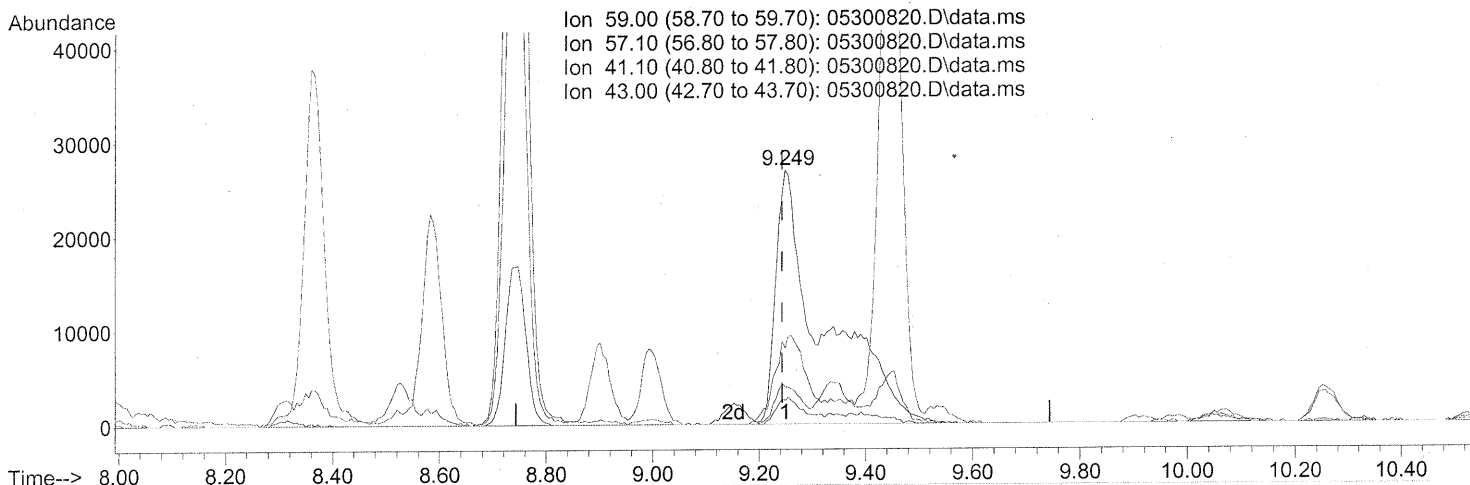
response 95010

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	173.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



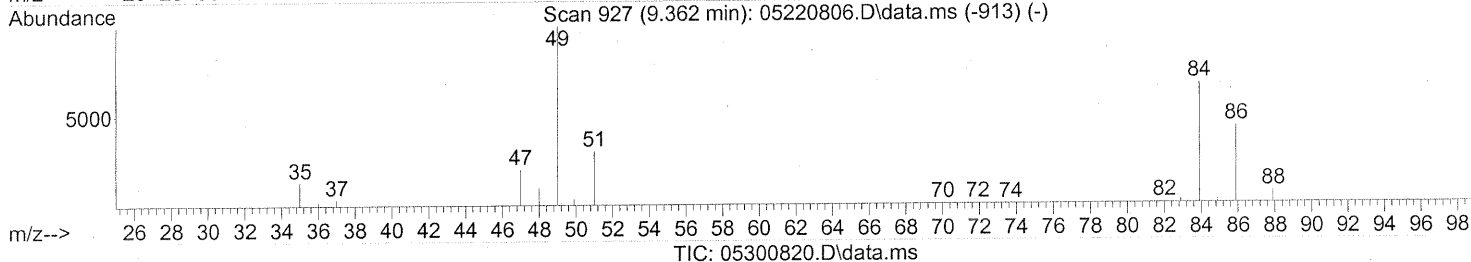
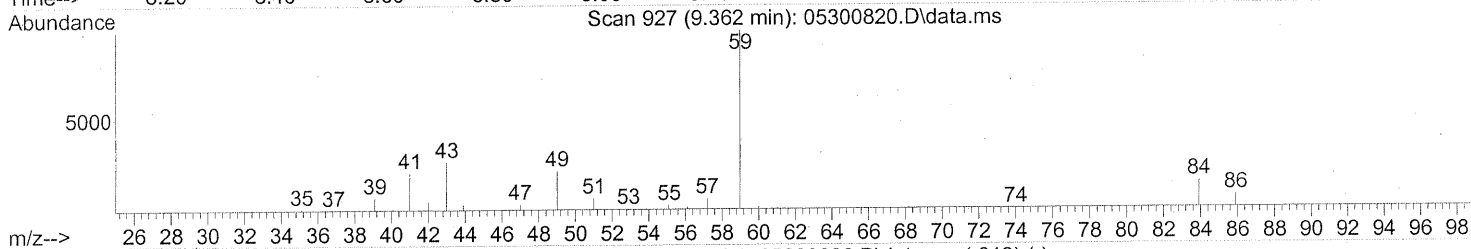
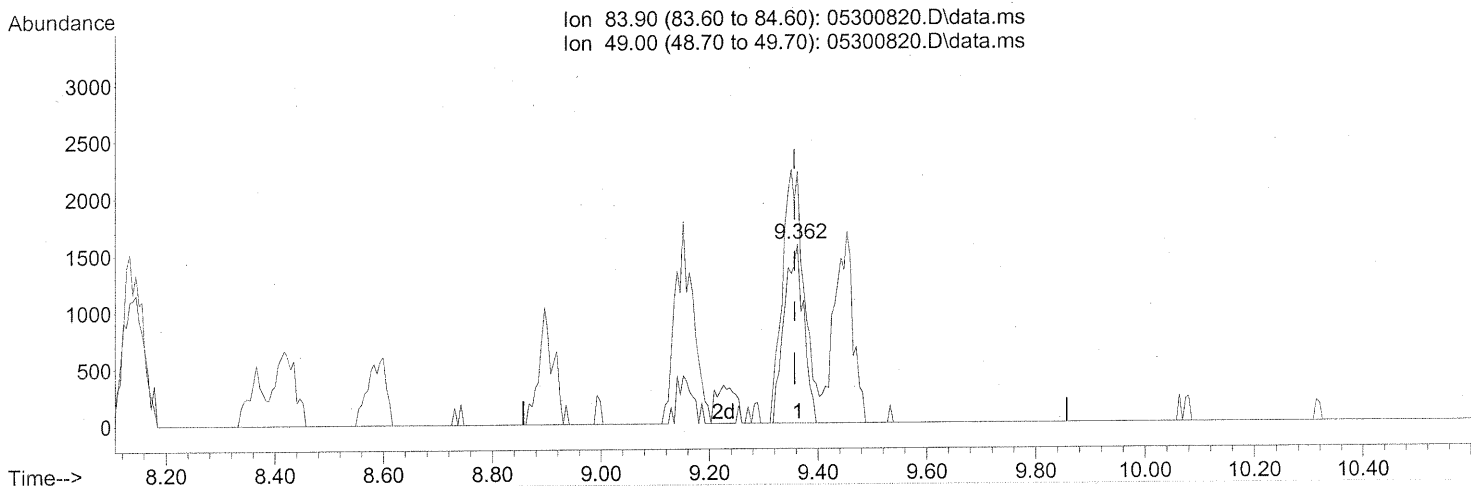
(18) tert-Butanol (T)  
 9.249min (+0.006) 3.53ng  
 response 164659

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.15
41.10	20.10	28.44
43.00	12.30	8.87

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.20ng

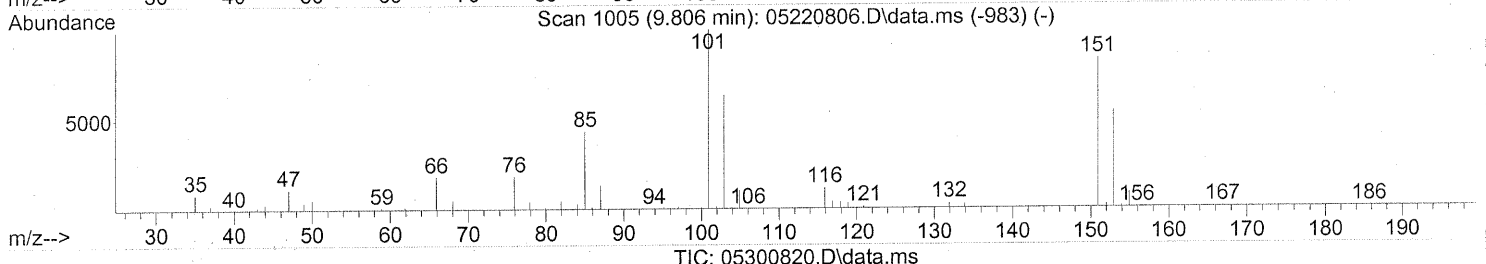
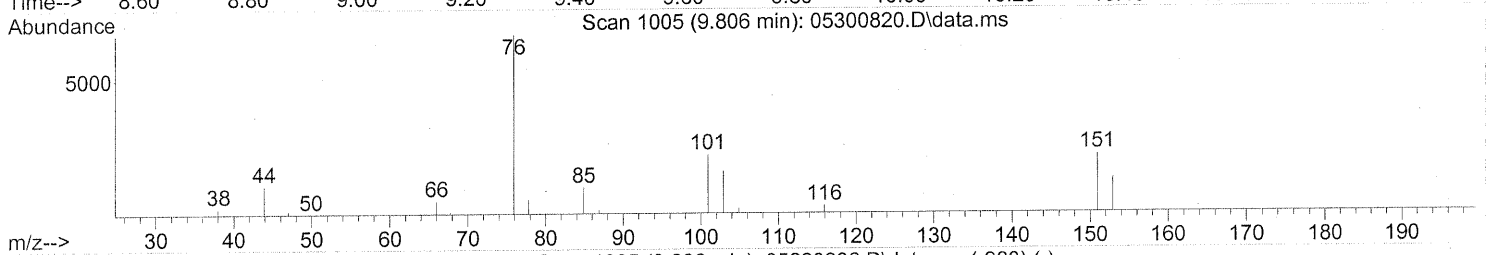
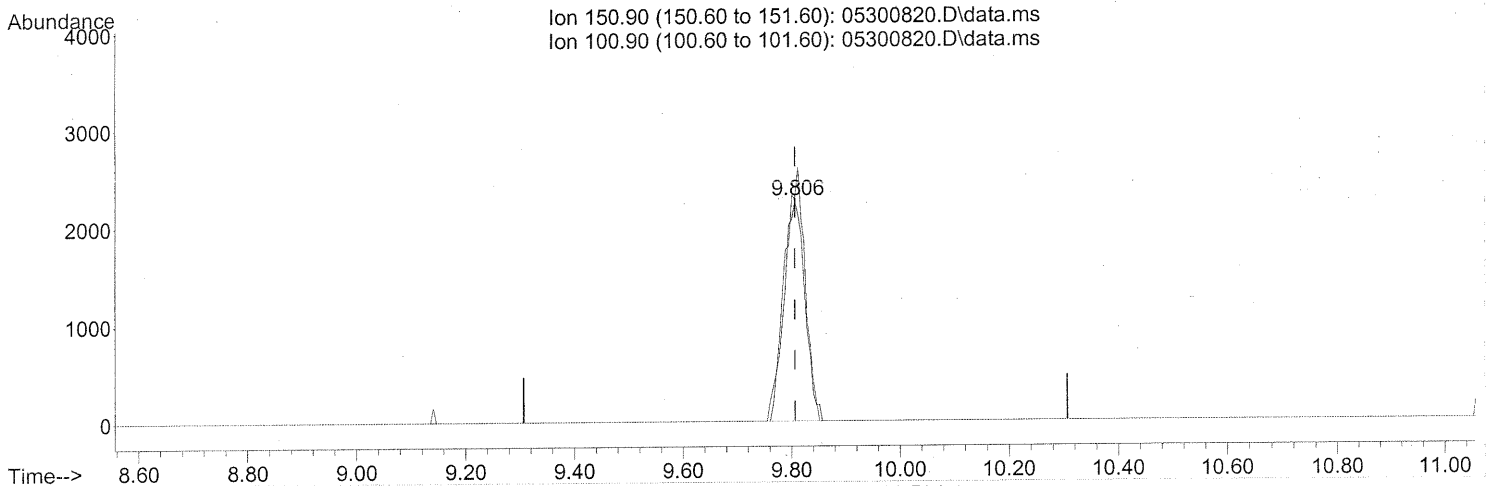
response 3930

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	160.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.33ng

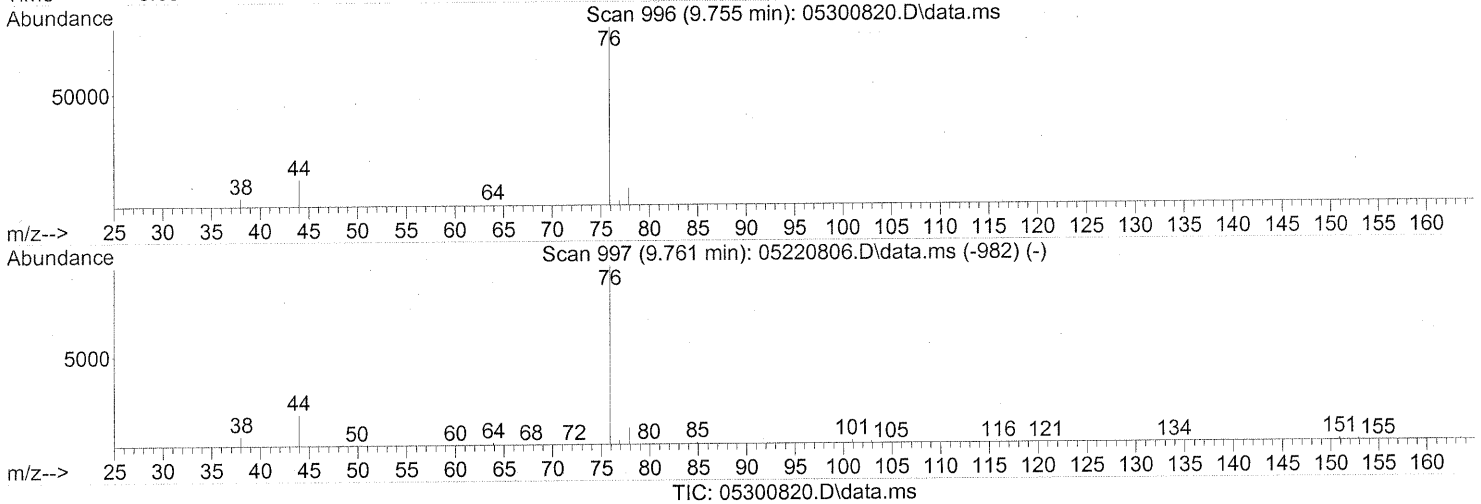
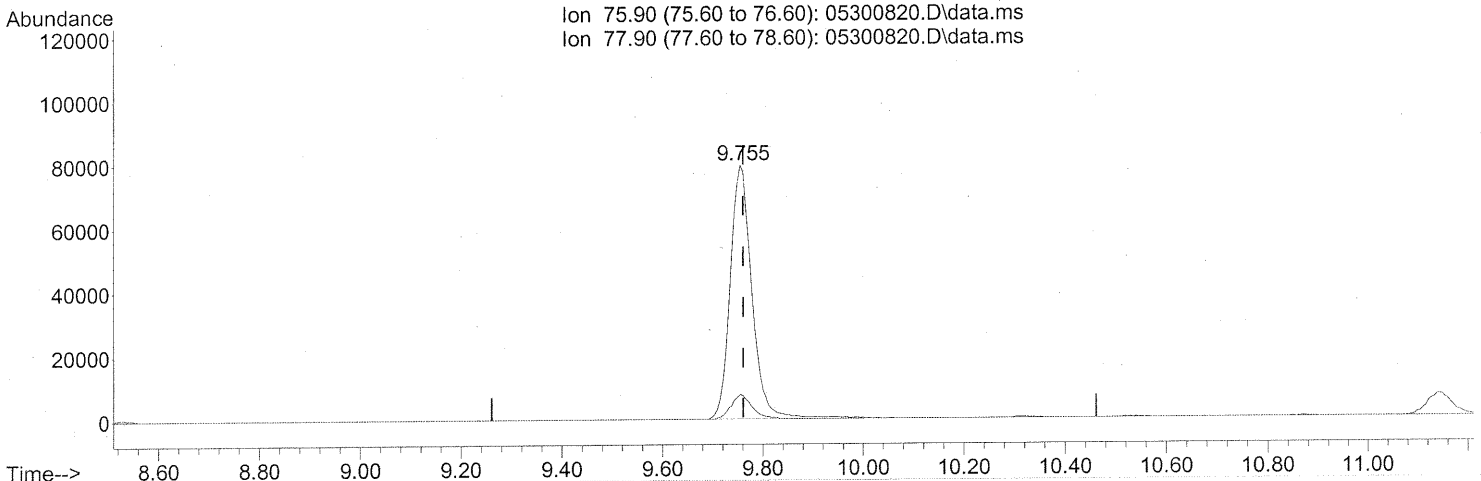
response 6060

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	114.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 3.23ng

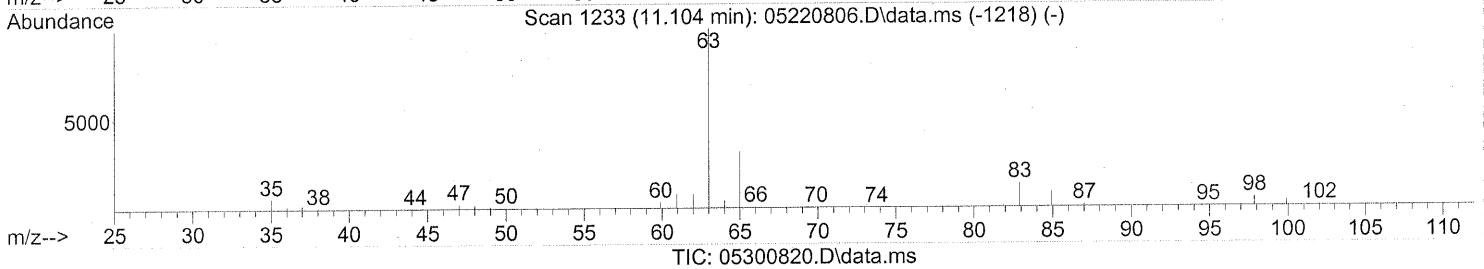
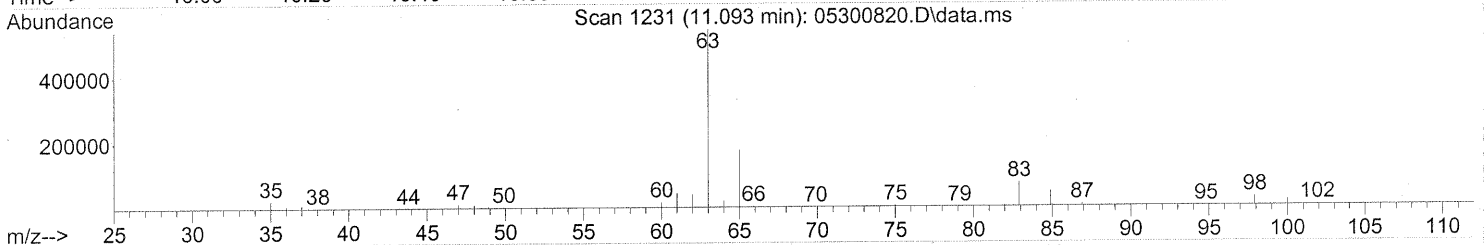
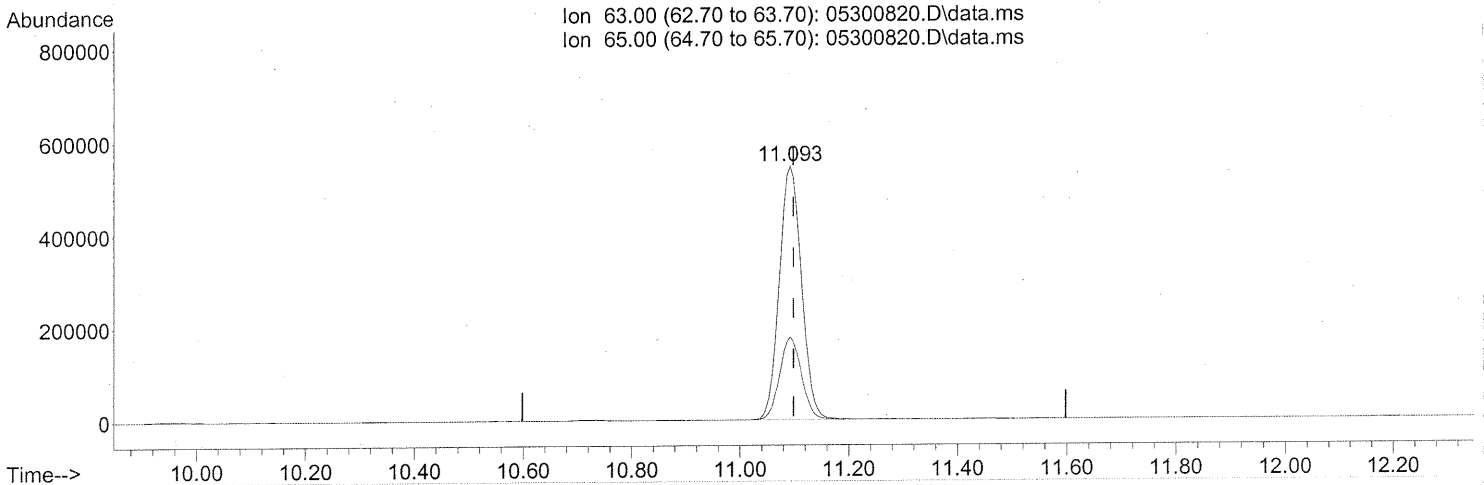
response 235843

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.093min (-0.006) 46.29ng

response 1545056

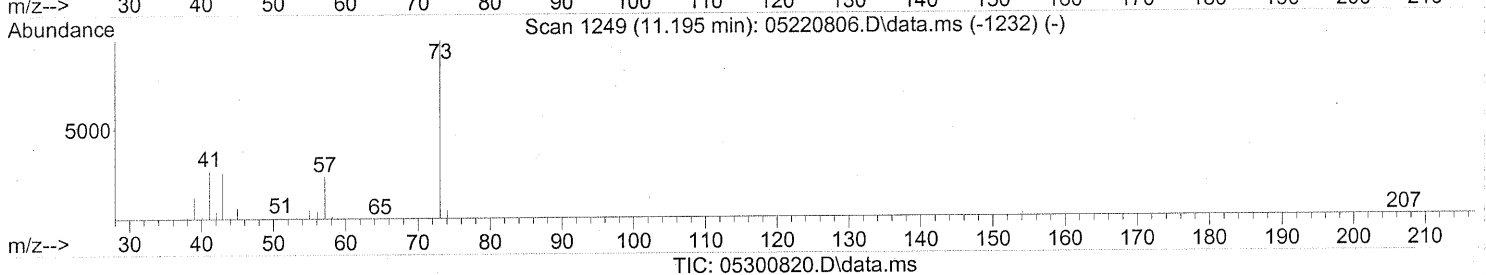
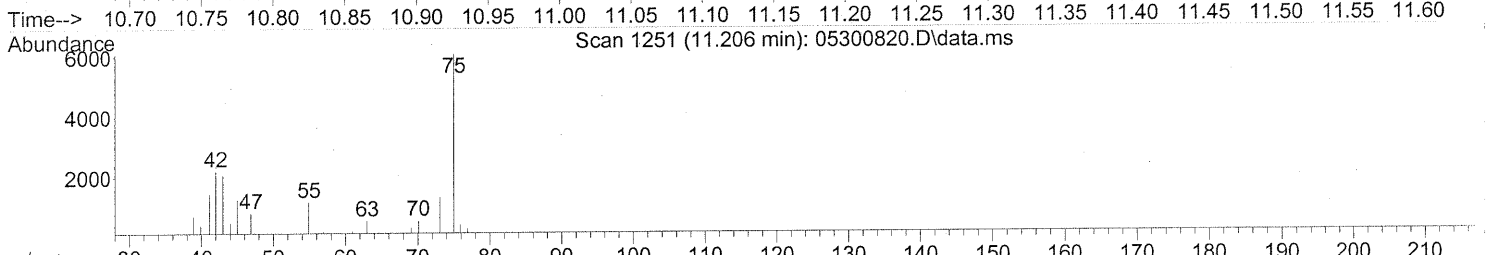
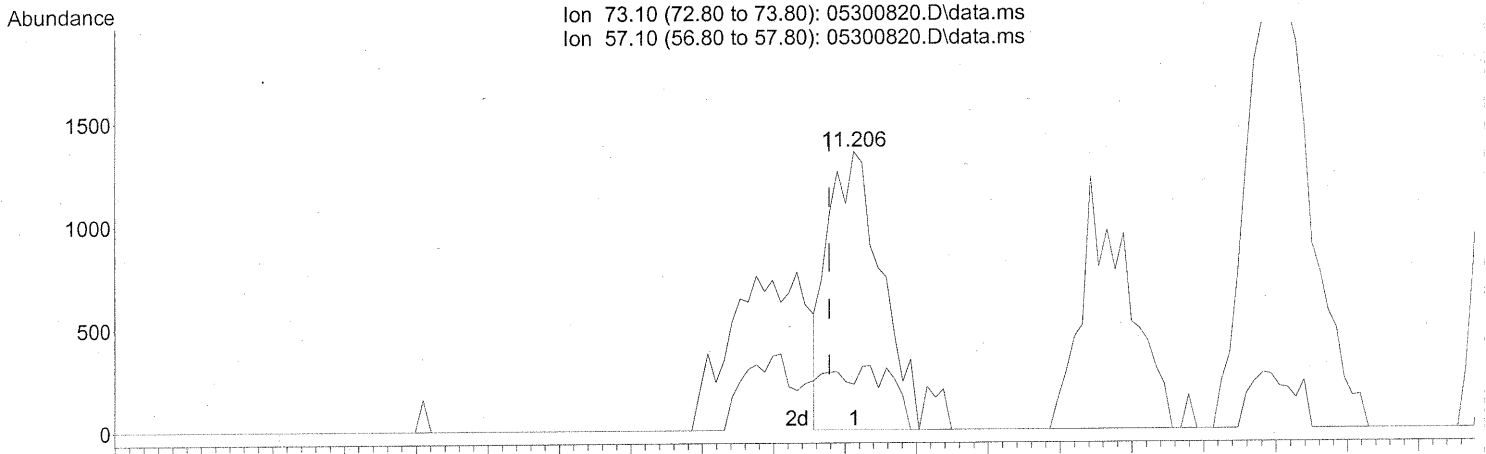
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.94
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

SPLIT PEAK

11.206min (+0.017) 0.06ng

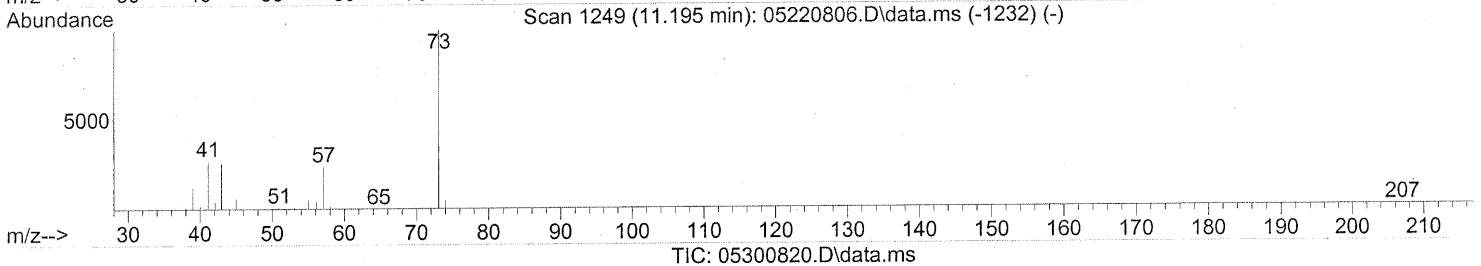
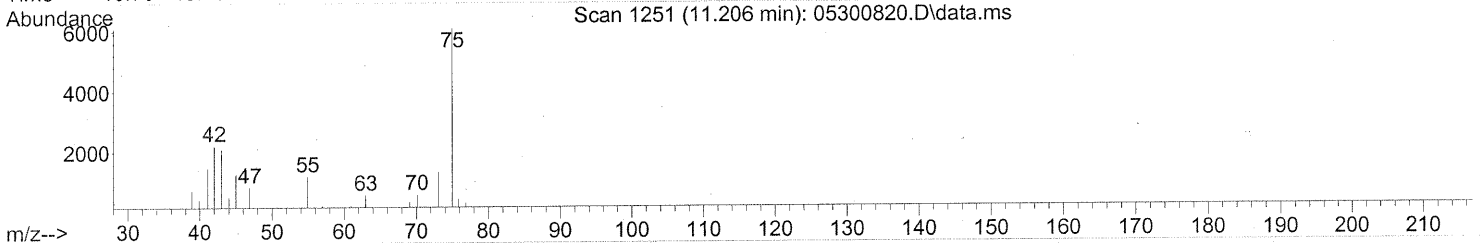
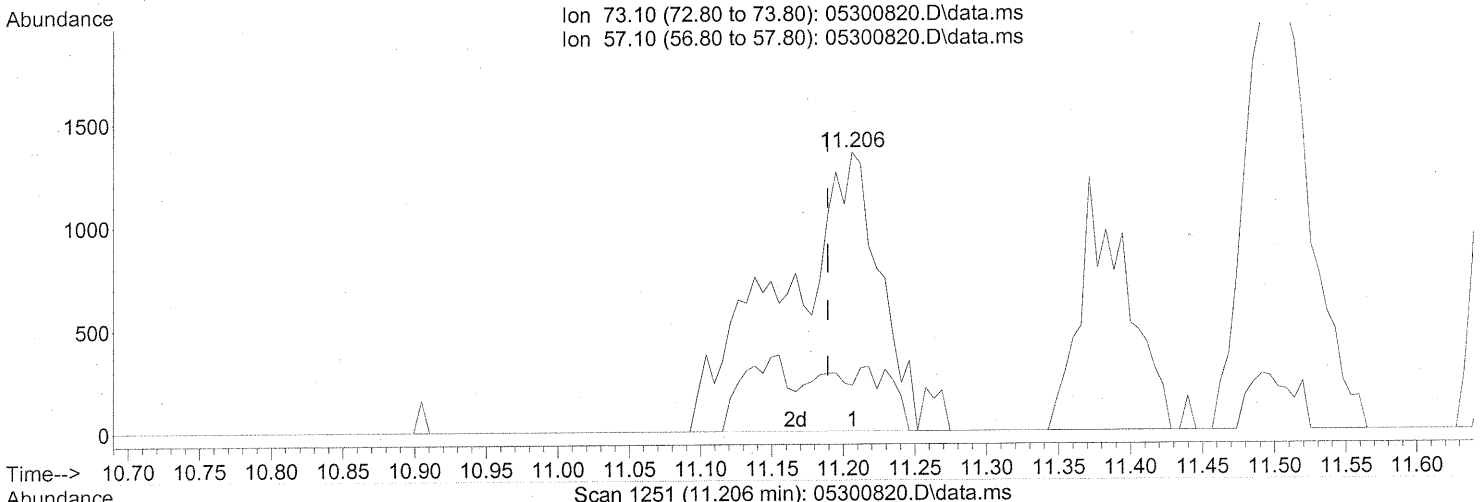
response 3498

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	14.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.206min (+0.017) 0.11ng m

response 6340

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	8.26#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK,  
 BEFORE SUBTRACTION

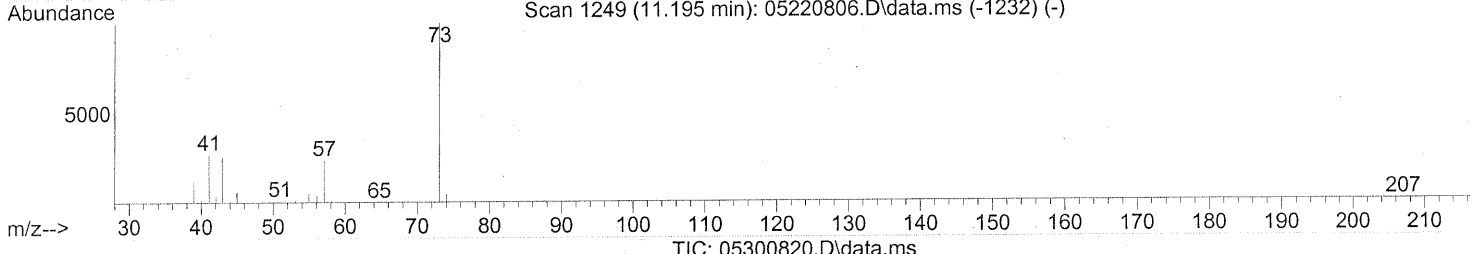
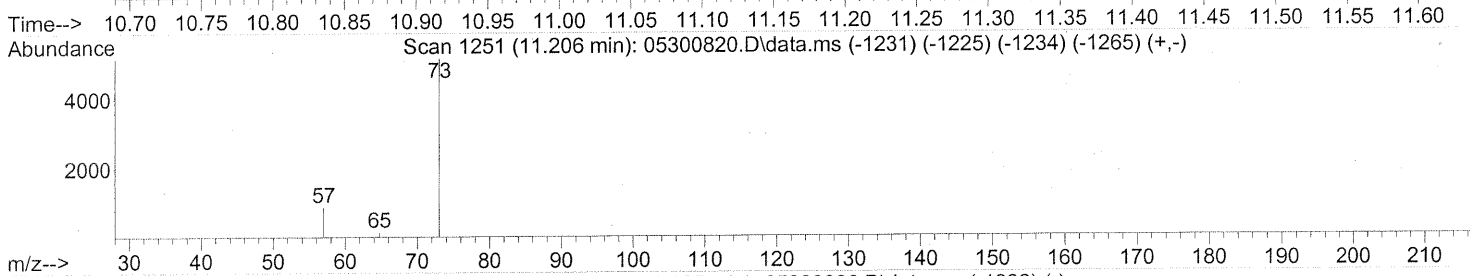
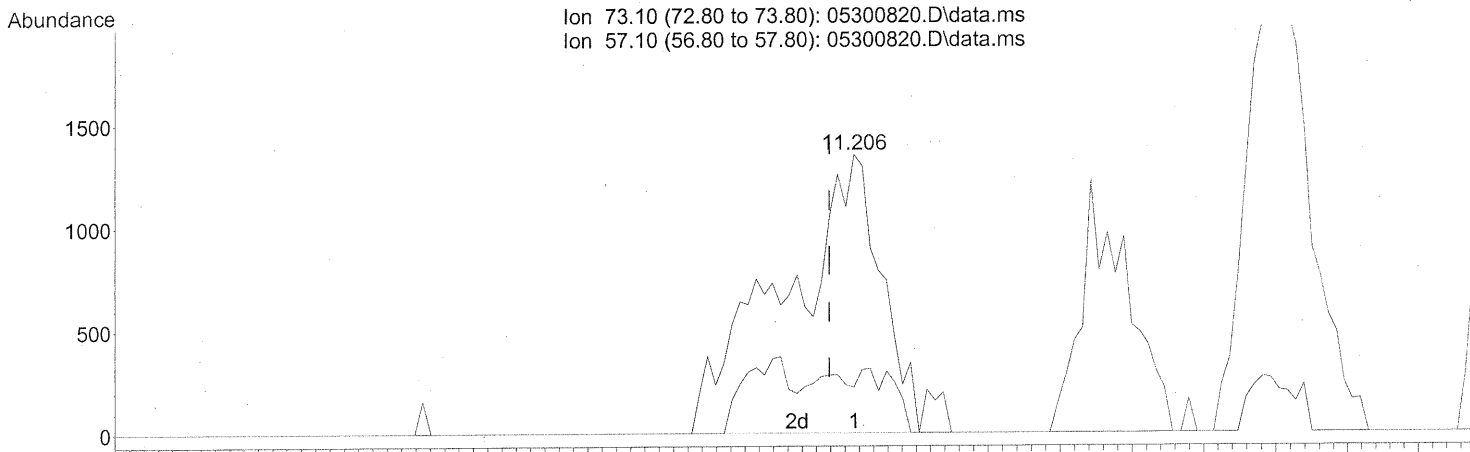
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:23:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.206min (+0.017) 0.11ng m

response 6340

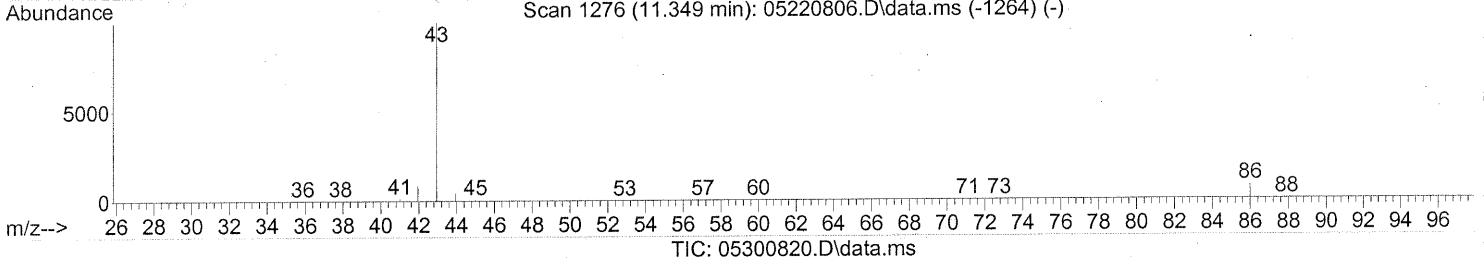
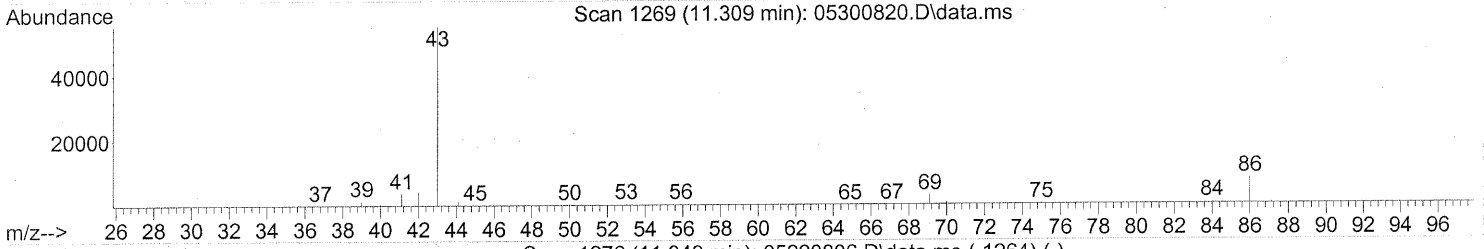
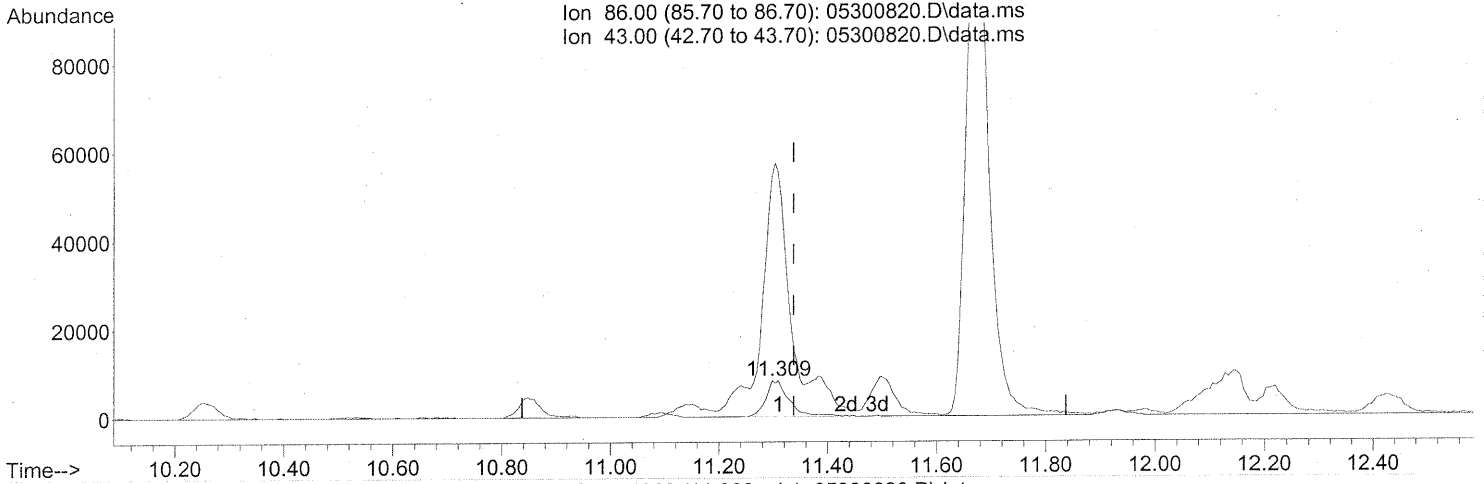
Ion	Exp%	Act%
73.10	100	100
57.10	31.40	8.26#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 Fog/ostor  
 E. 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.309min (-0.028) 7.46ng

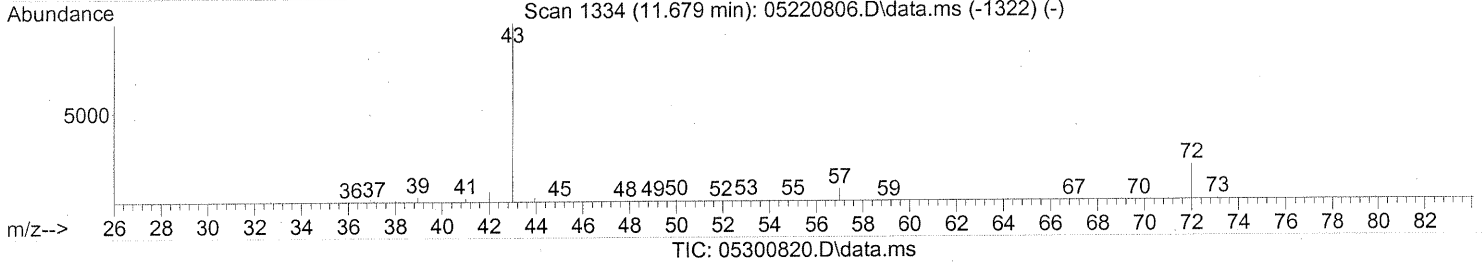
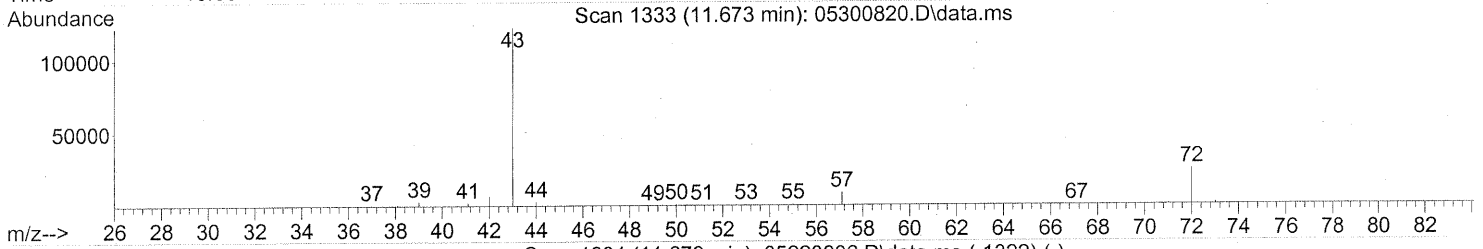
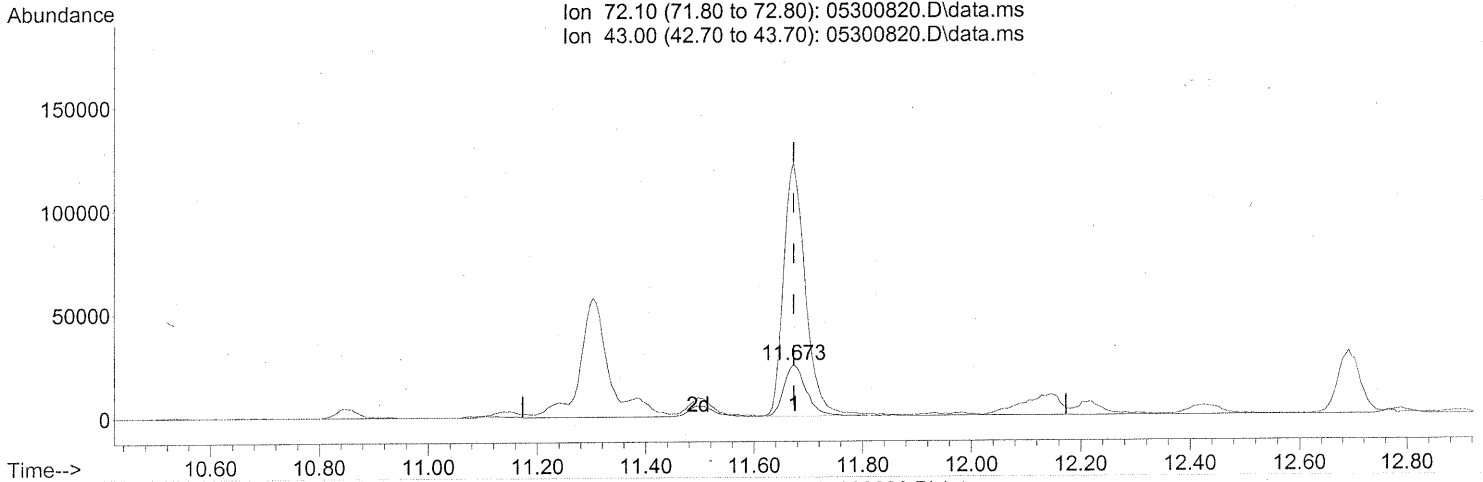
response 23737

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	817.99#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.673min (-0.000) 5.58ng

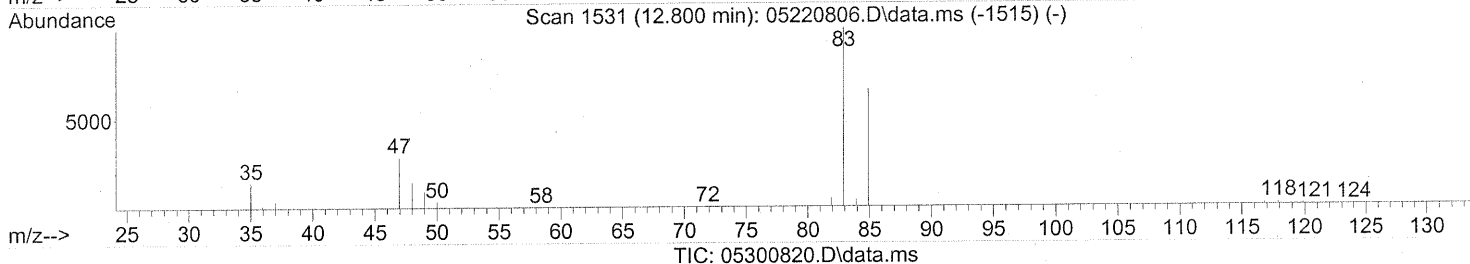
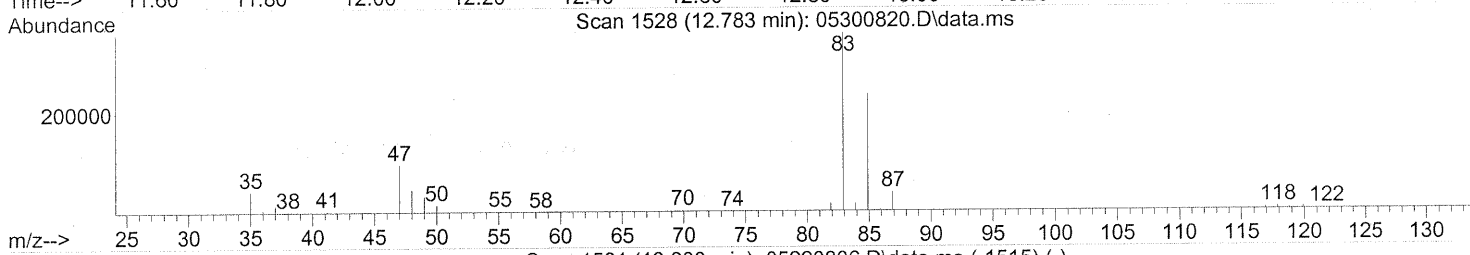
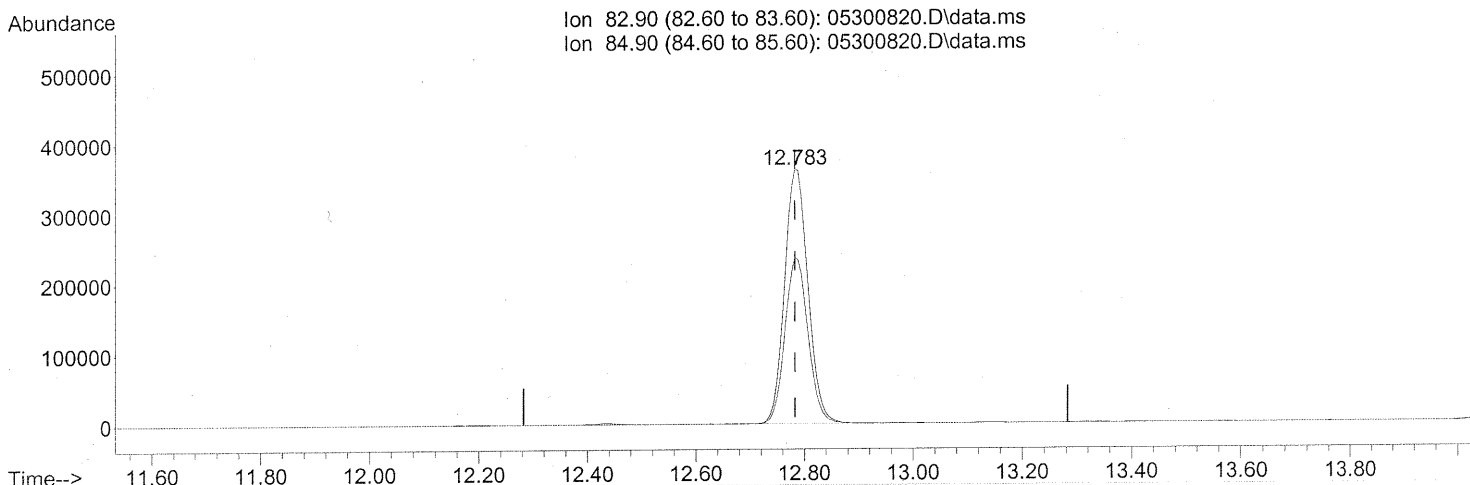
response 70097

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	487.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.783min (-0.000) 37.16ng

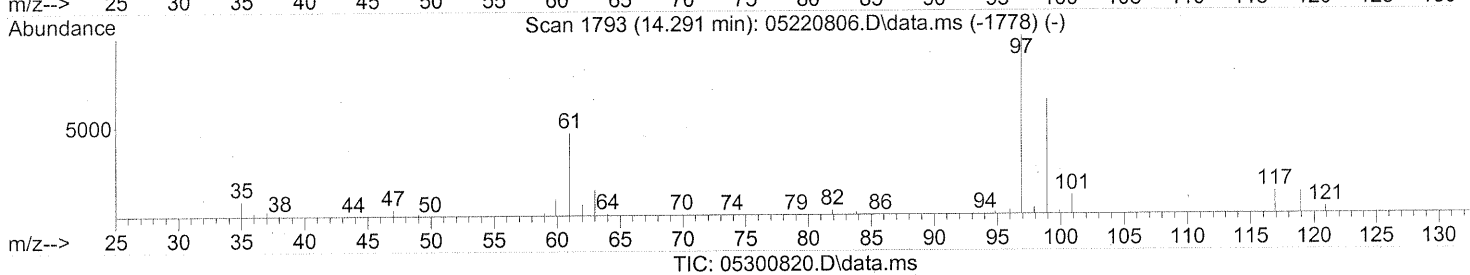
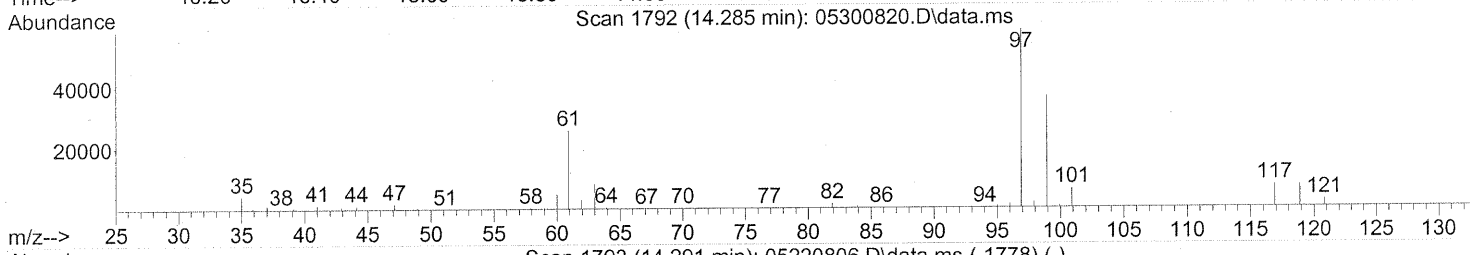
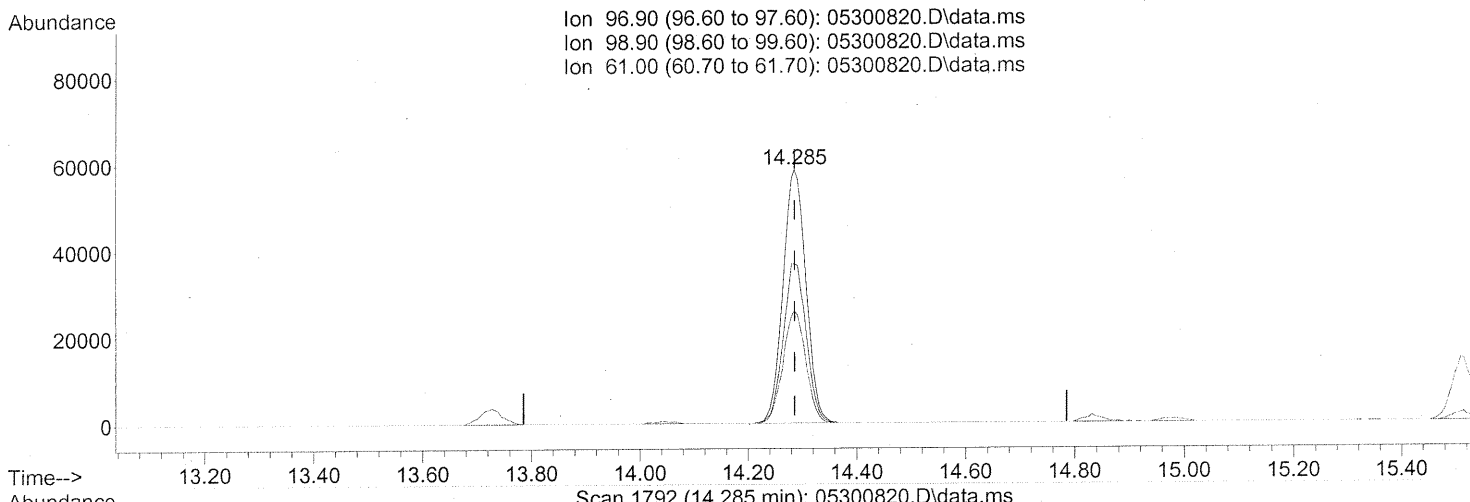
response 1083556

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 5.56ng

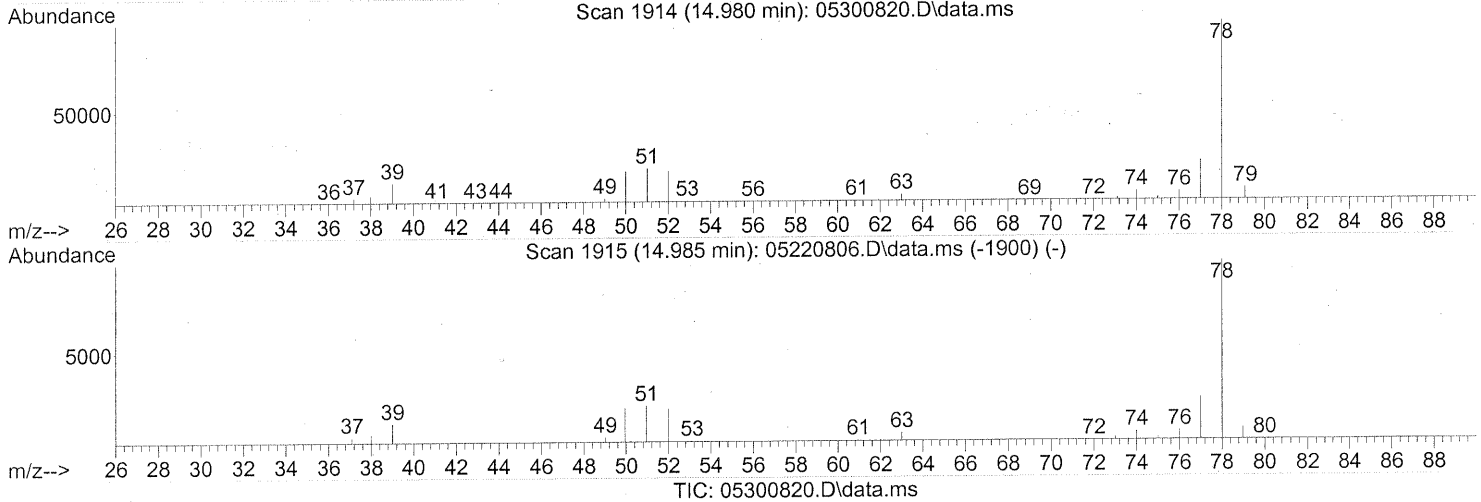
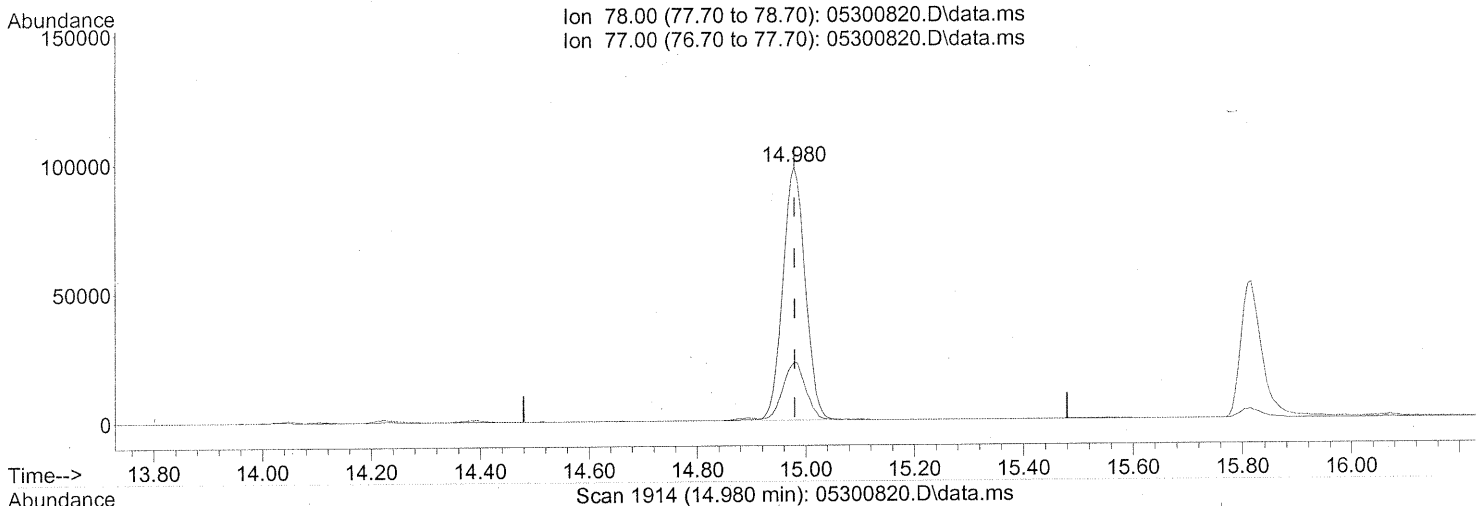
response 172766

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	62.99
61.00	50.50	43.84
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



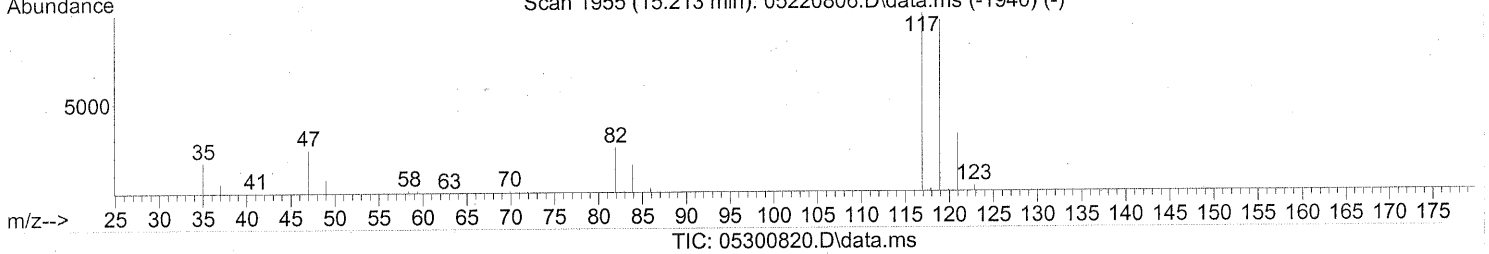
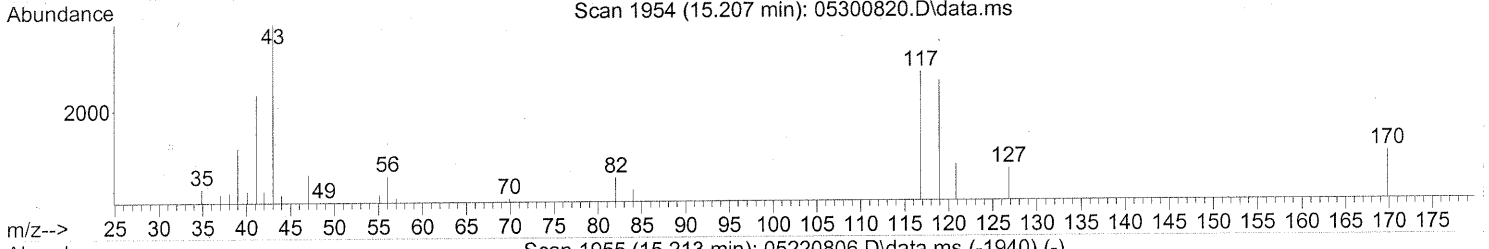
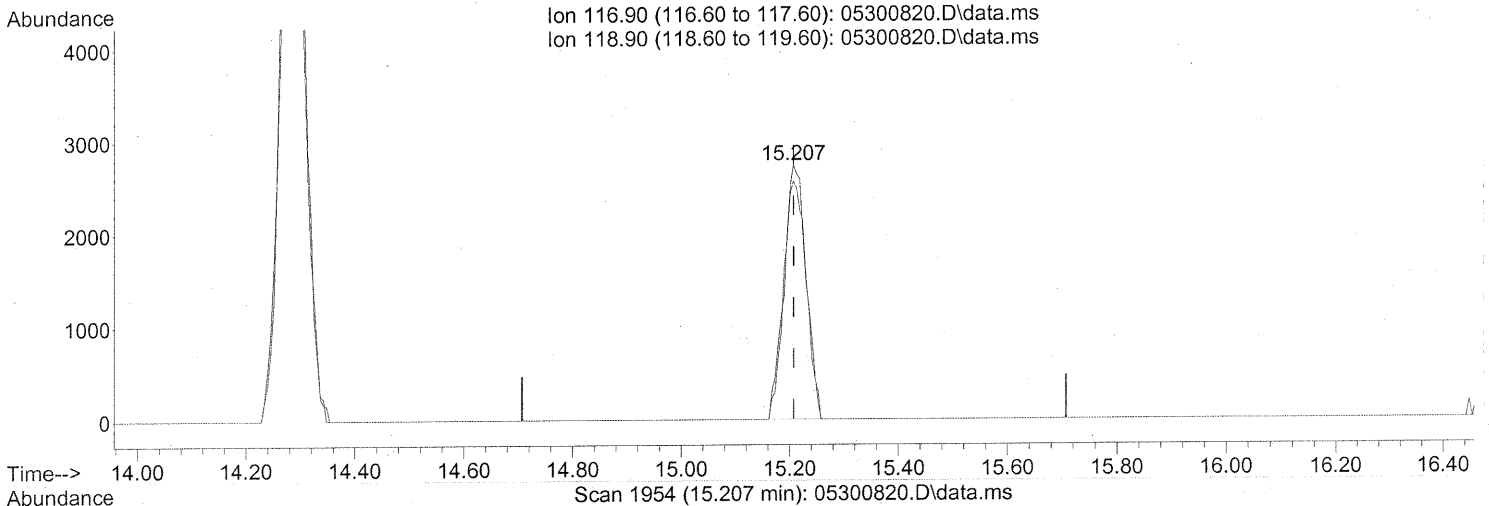
(41) Benzene (T)  
14.980min (-0.000) 3.92ng  
response 280377

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.33
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.28ng

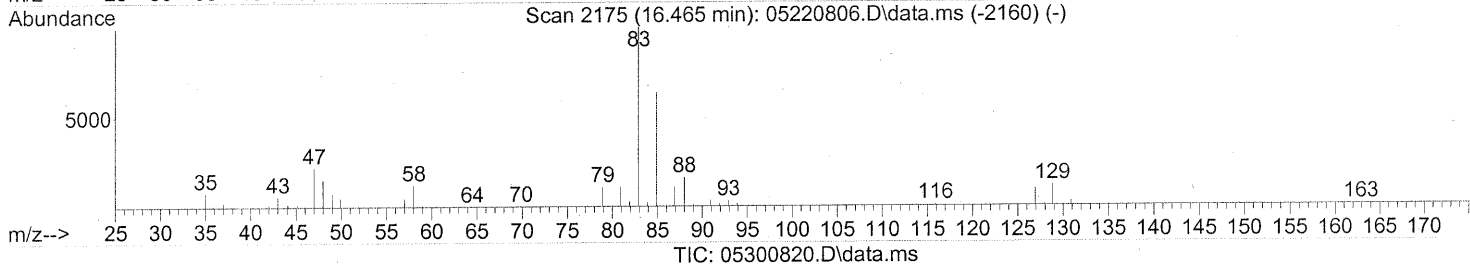
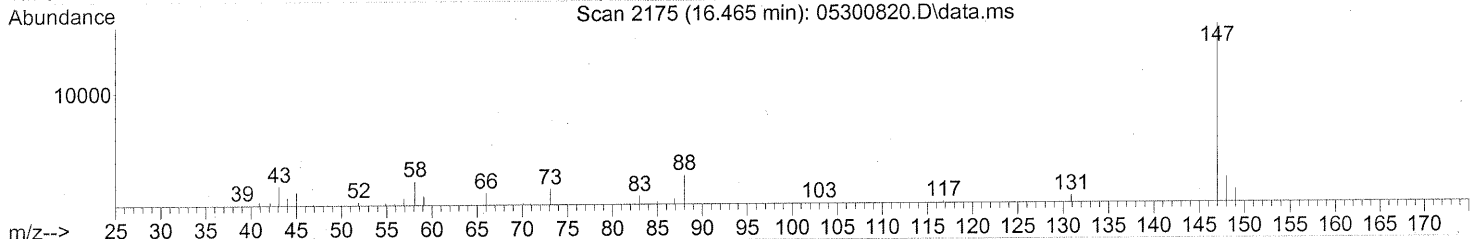
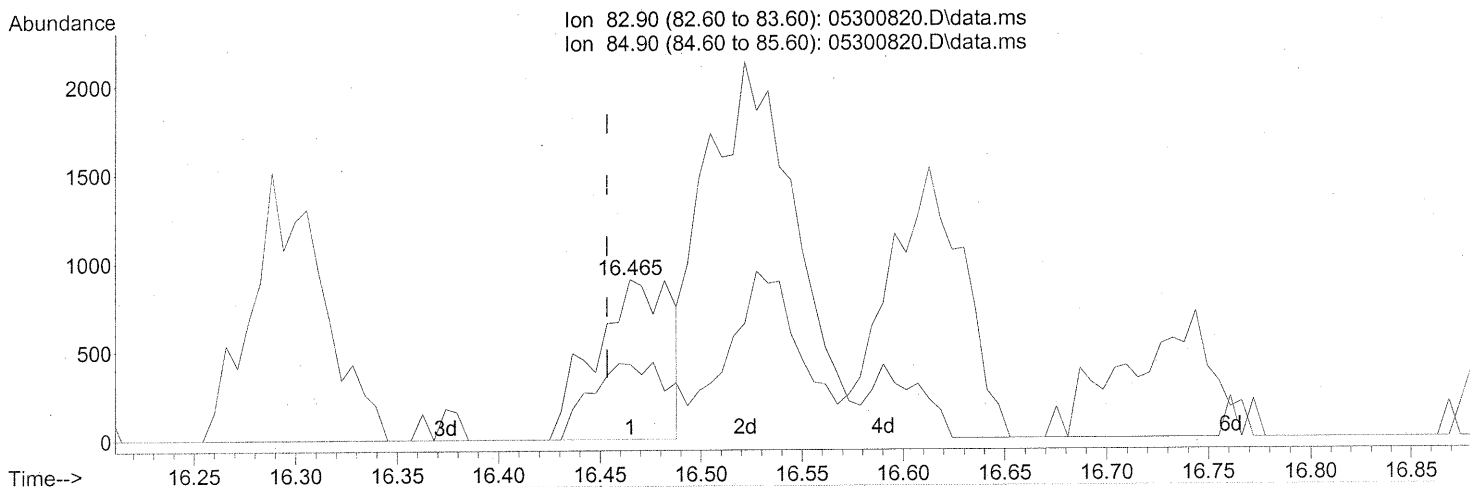
response 7753

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.10ng

response 2357

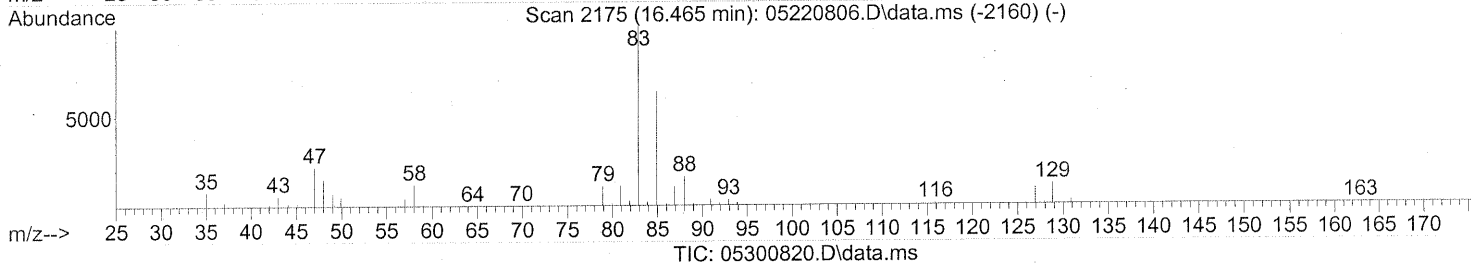
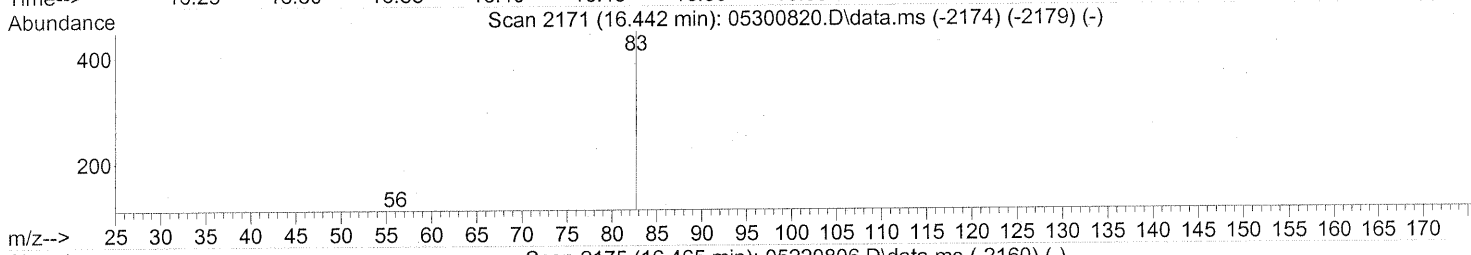
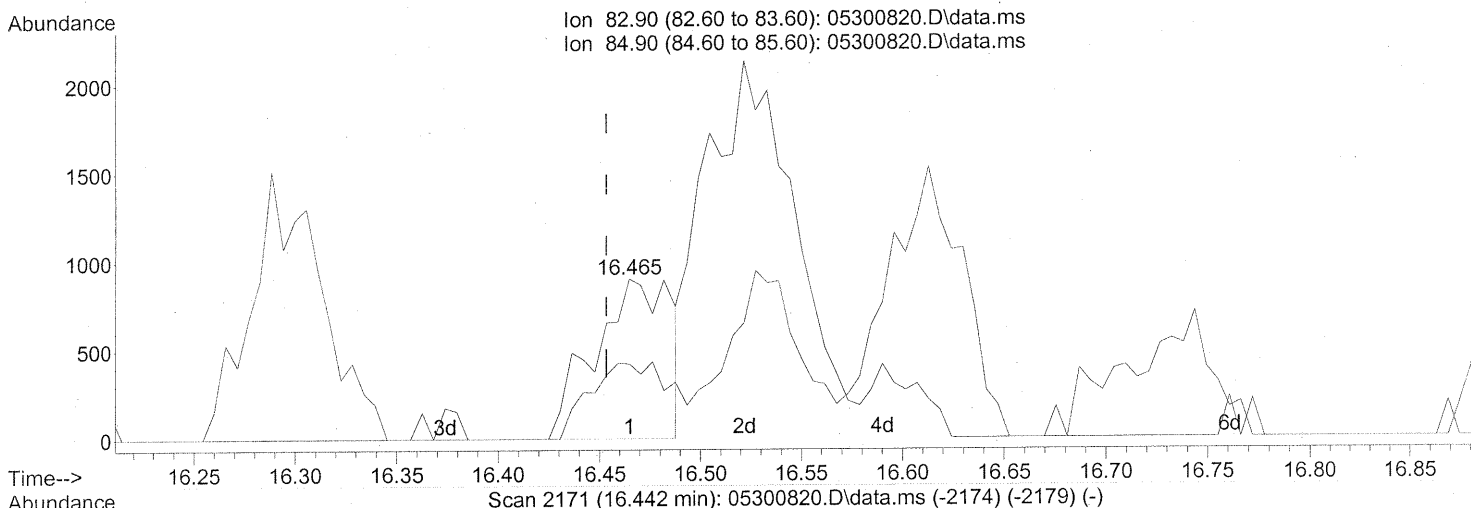
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	50.40
0.00	0.00	0.00
0.00	0.00	0.00

~~BEFORE~~ SUBTRACTION

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.10ng

response 2357

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	50.40
0.00	0.00	0.00
0.00	0.00	0.00

ATFER SUBTRACTION

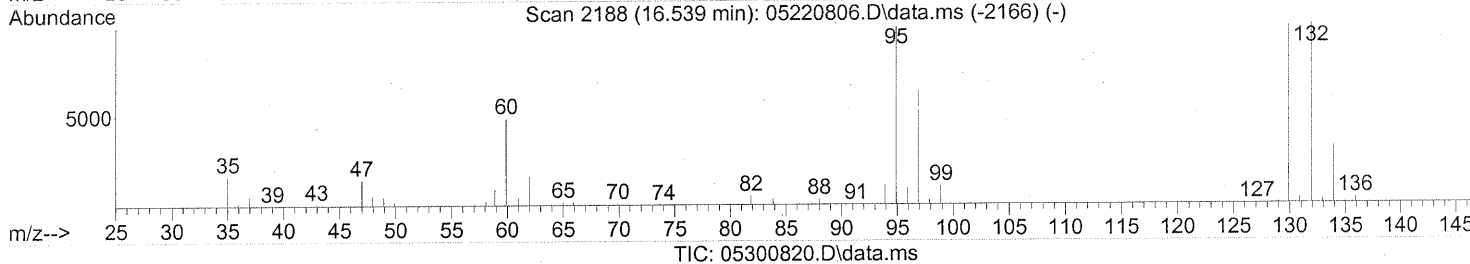
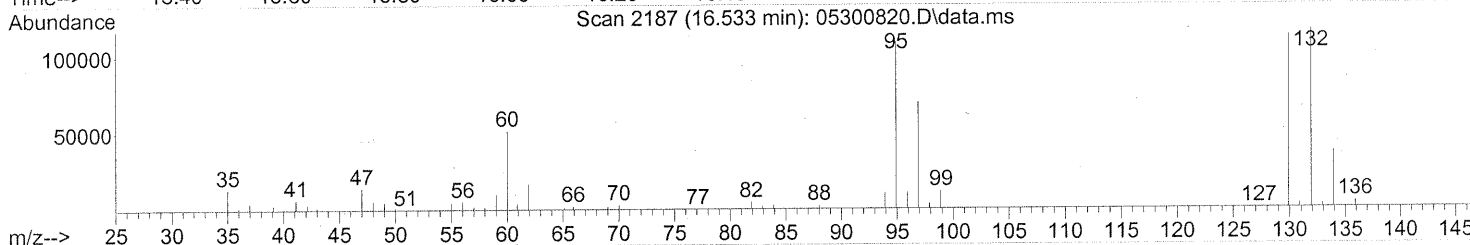
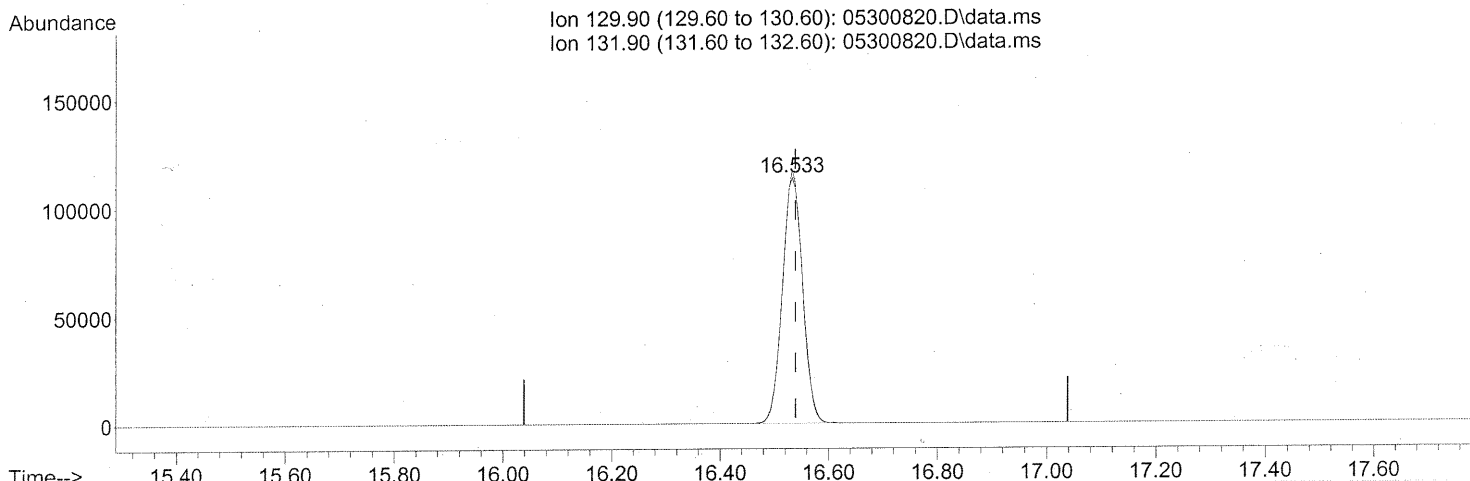
6/9/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)  
 16.533min (-0.006) 13.52ng

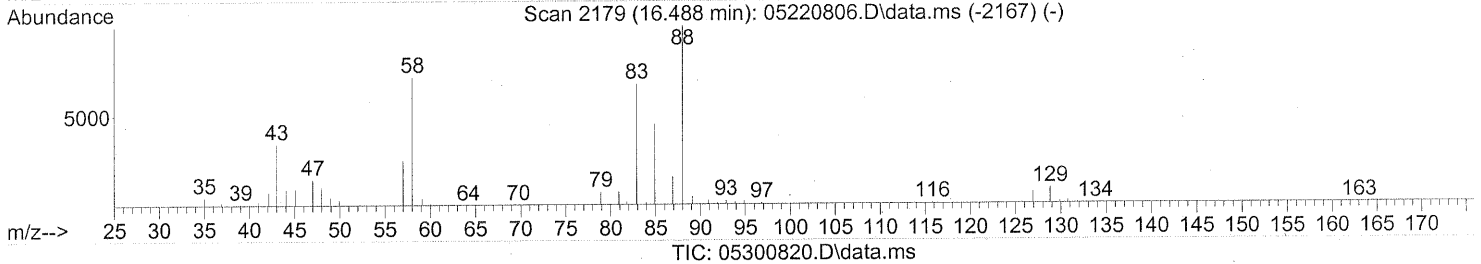
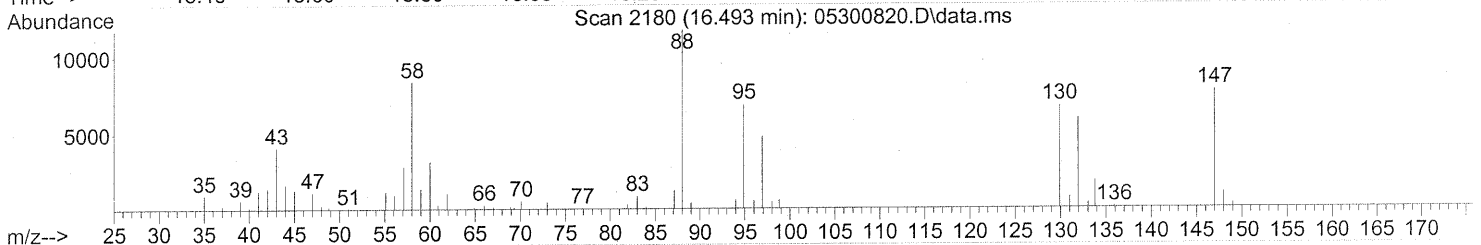
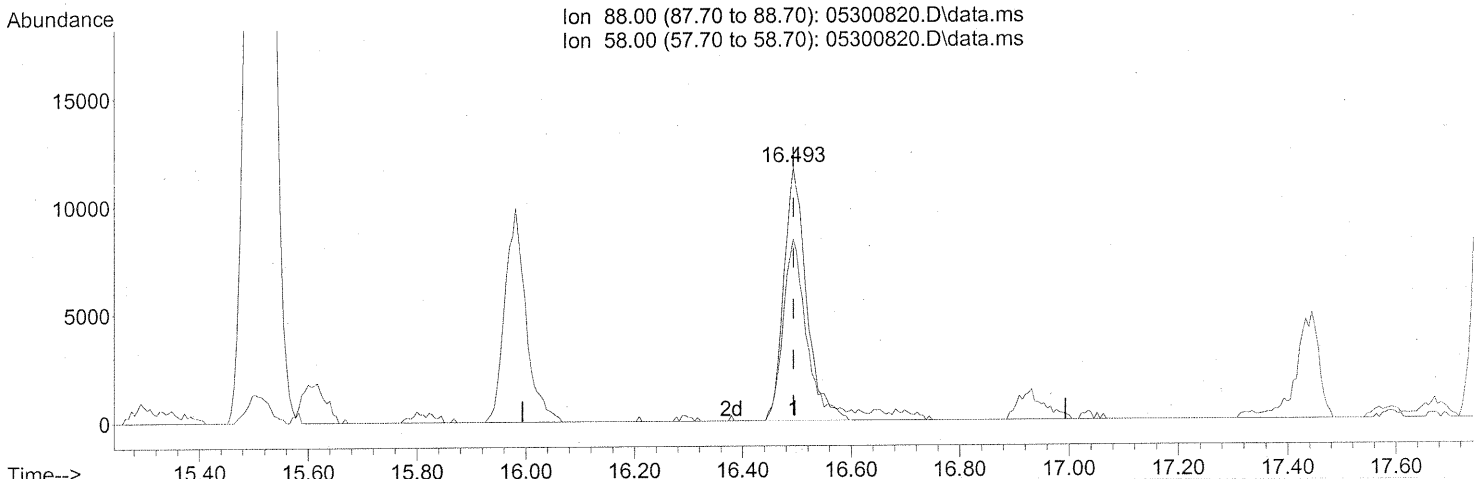
response 296331

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.493min (-0.000) 2.52ng

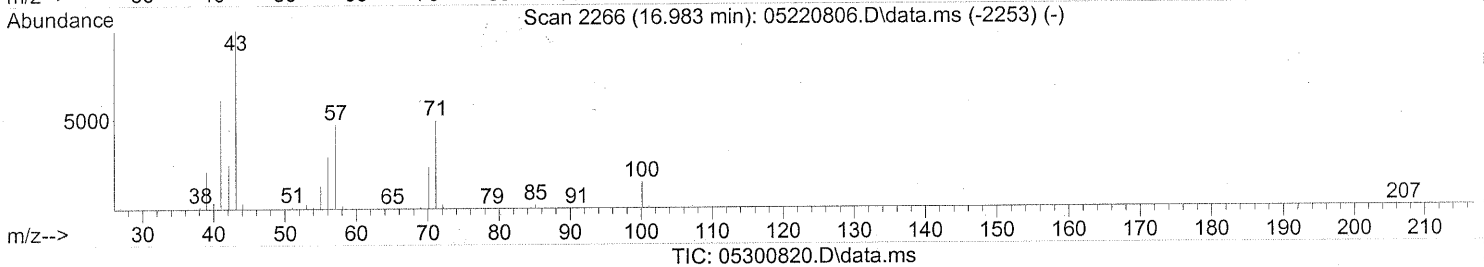
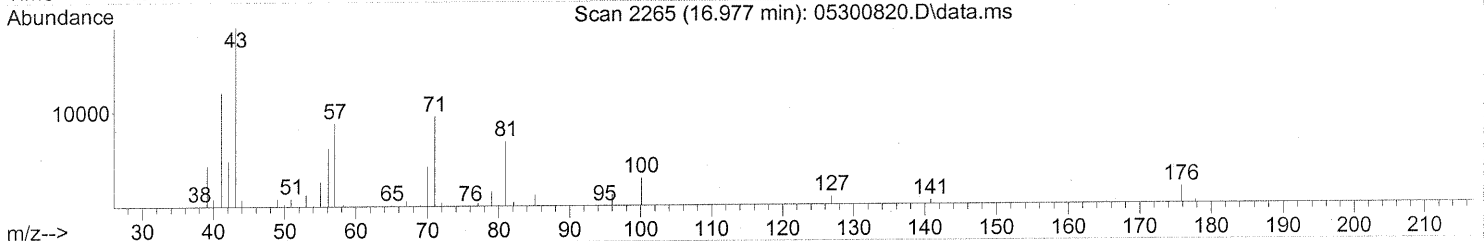
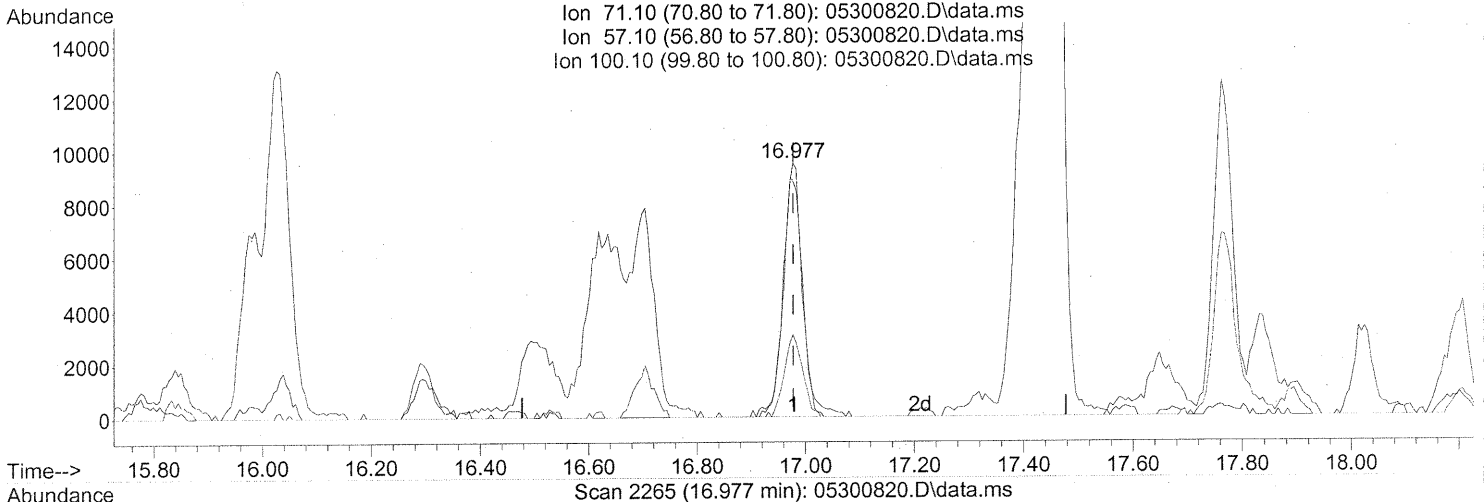
response 33964

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	77.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.977min (-0.000) 1.20ng

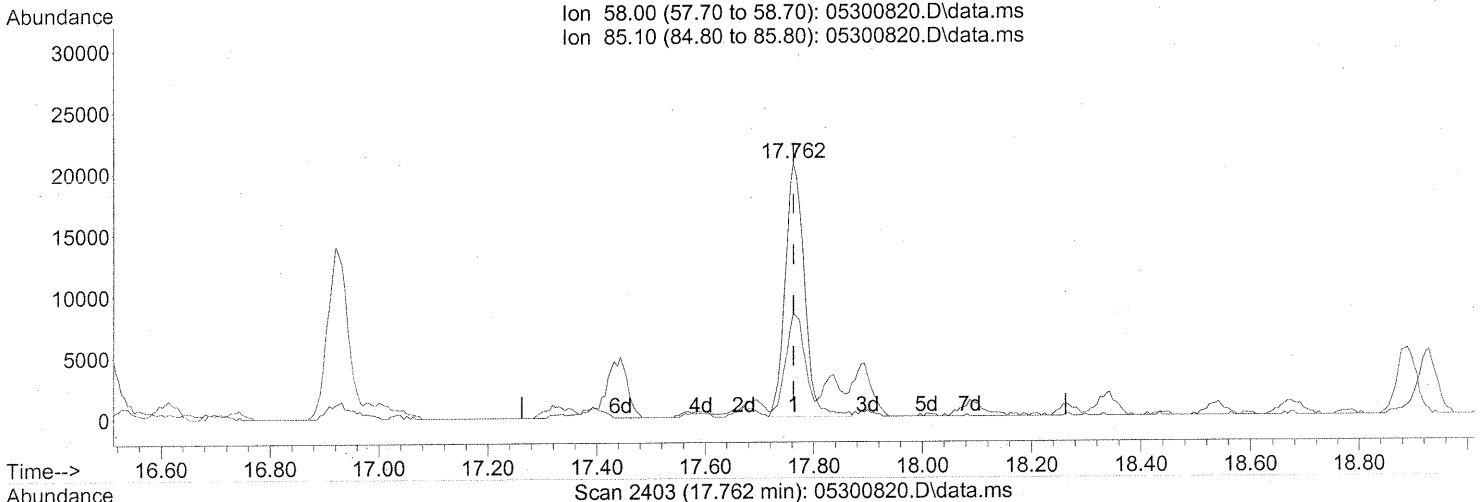
response 22811

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	101.72#
100.10	30.10	32.09
0.00	0.00	0.00

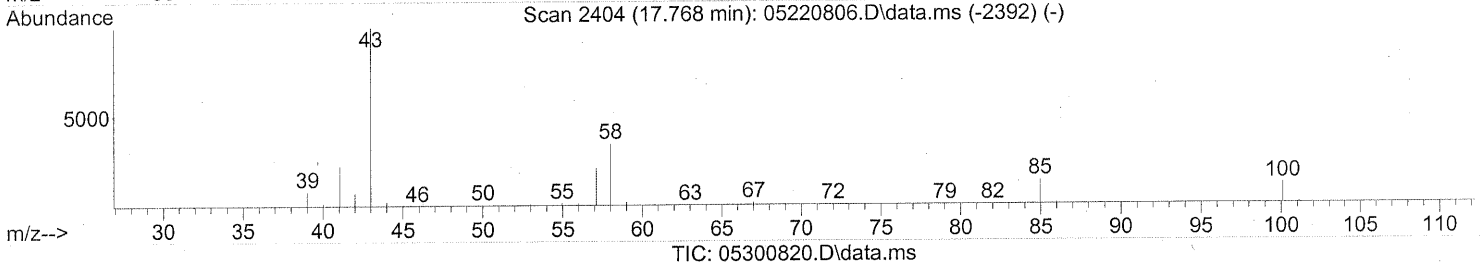
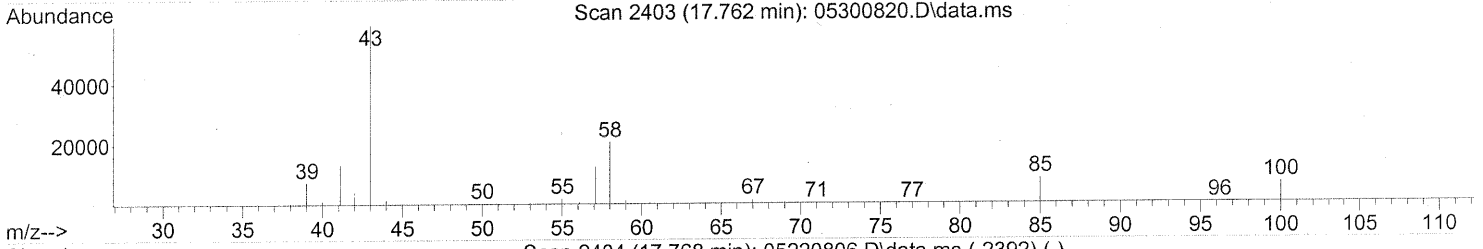
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 58.00 (57.70 to 58.70): 05300820.D\data.ms  
 Ion 85.10 (84.80 to 85.80): 05300820.D\data.ms



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

17.762min (-0.000) 2.69ng

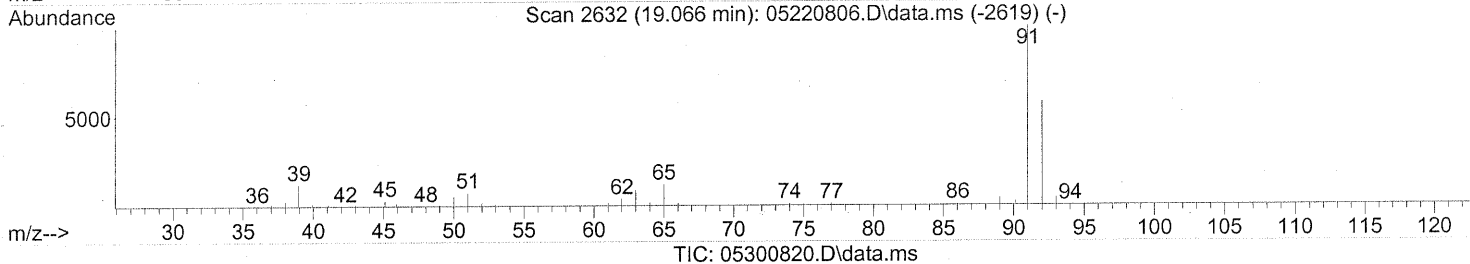
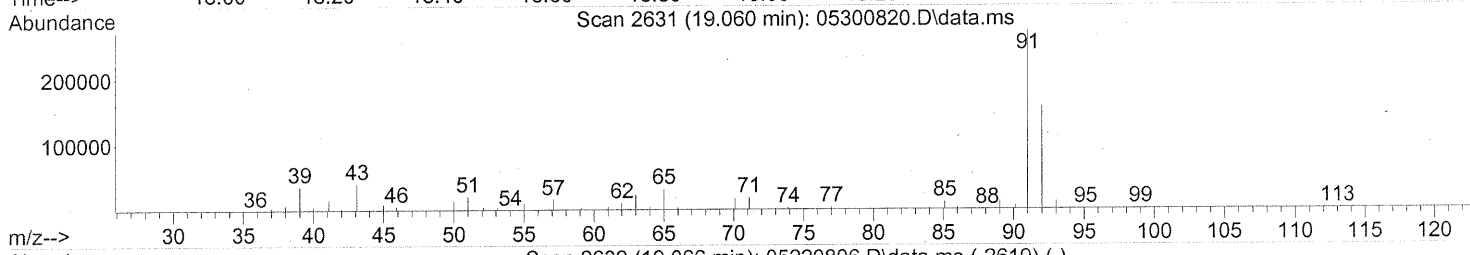
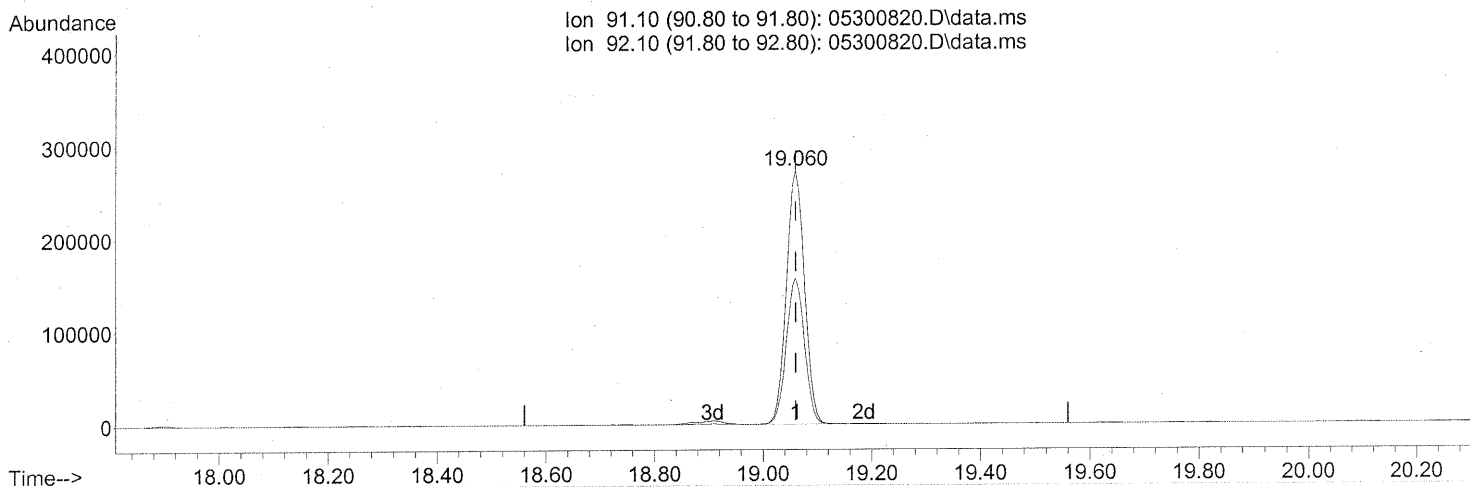
response 51075

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	42.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 7.96ng

response 630890

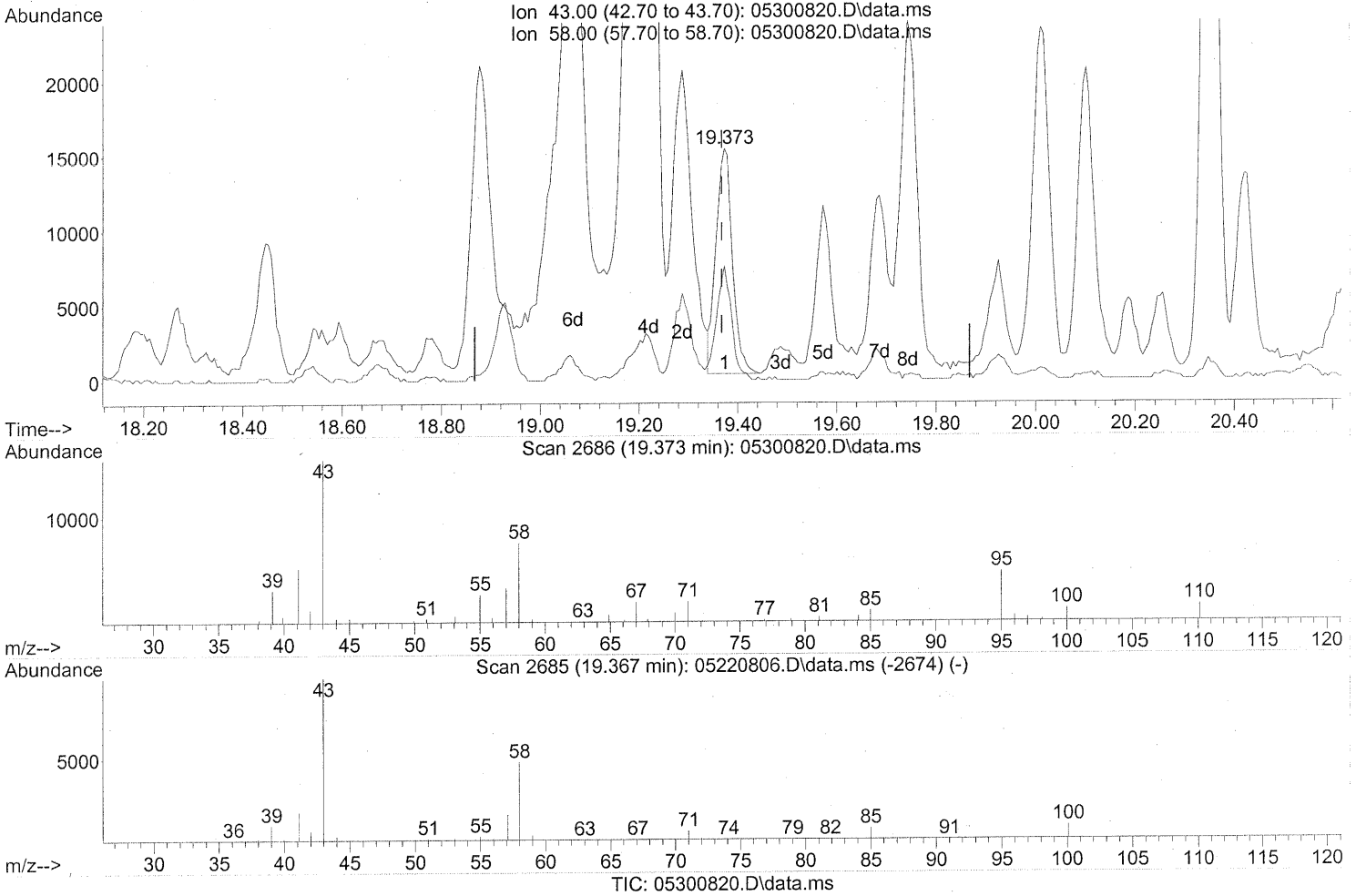
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.71
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)

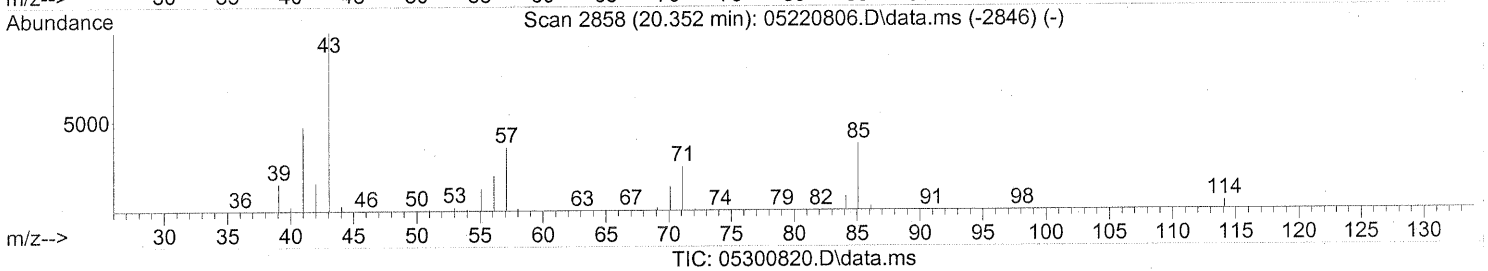
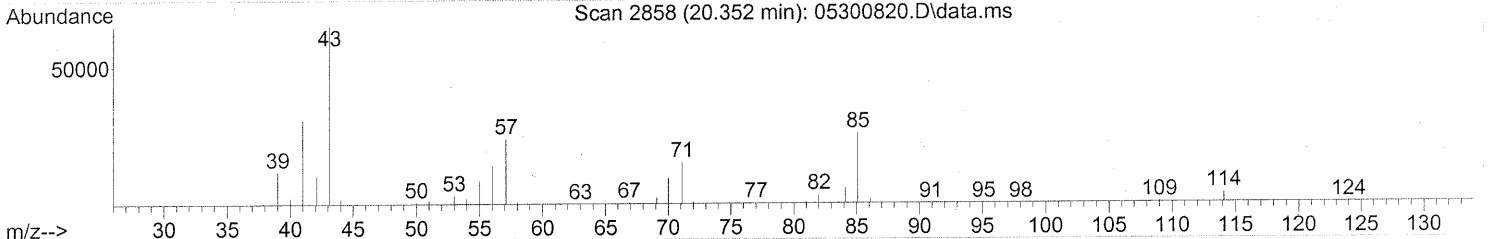
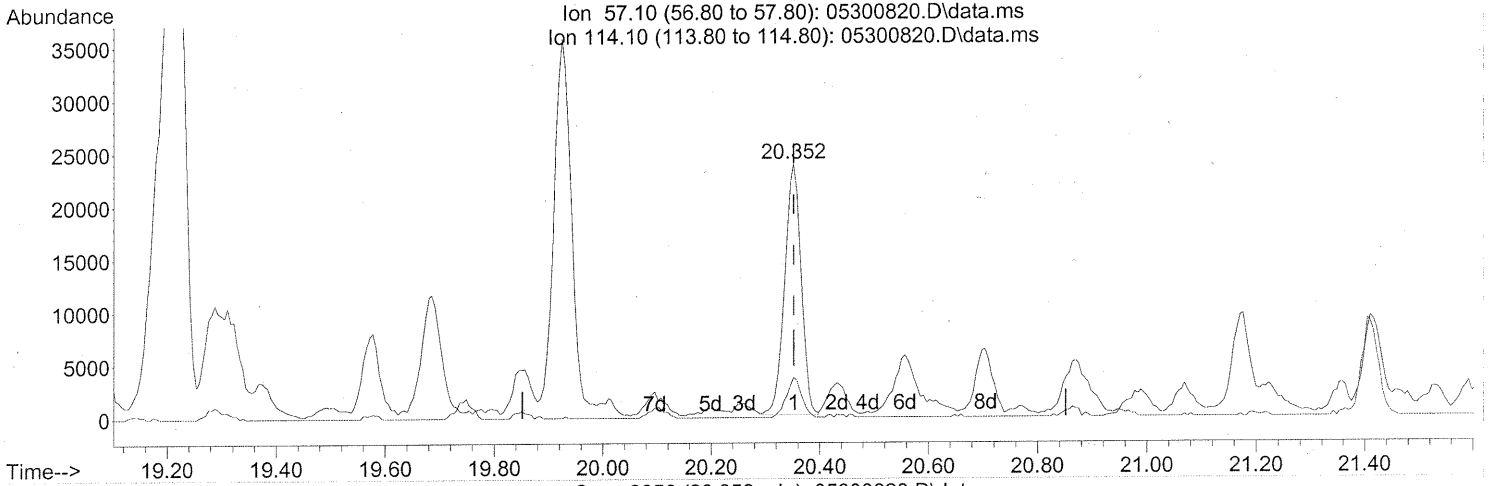
19.373min (+0.006) 0.64ng

response 34957

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	46.66
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 2.84ng

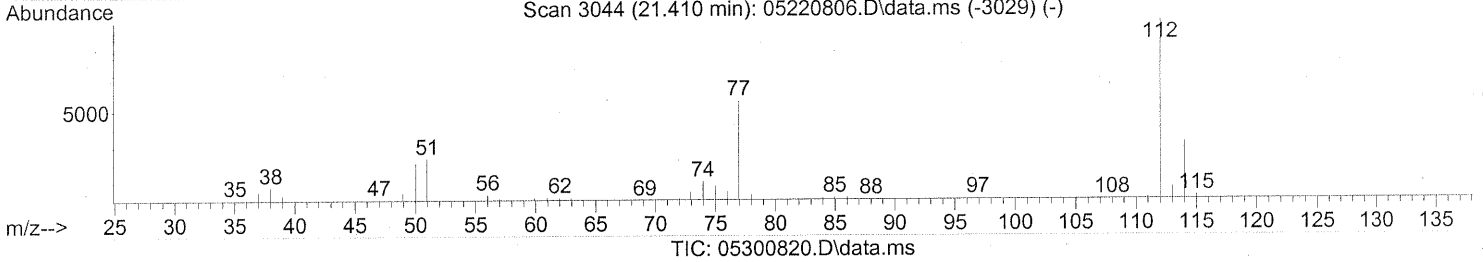
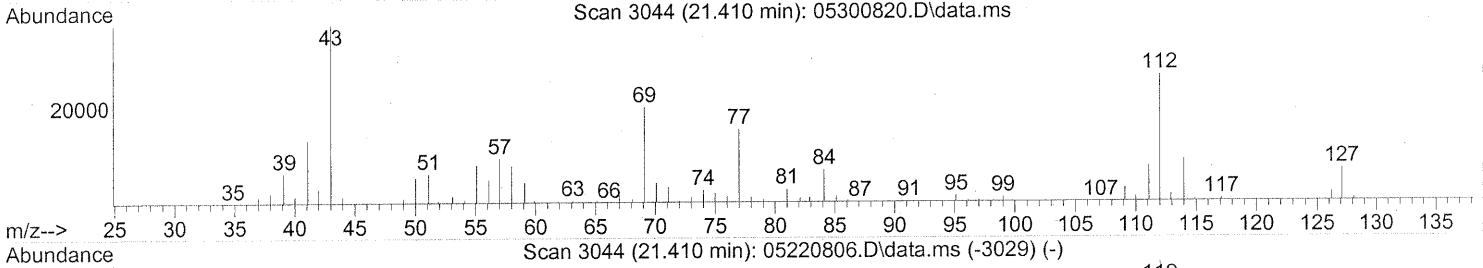
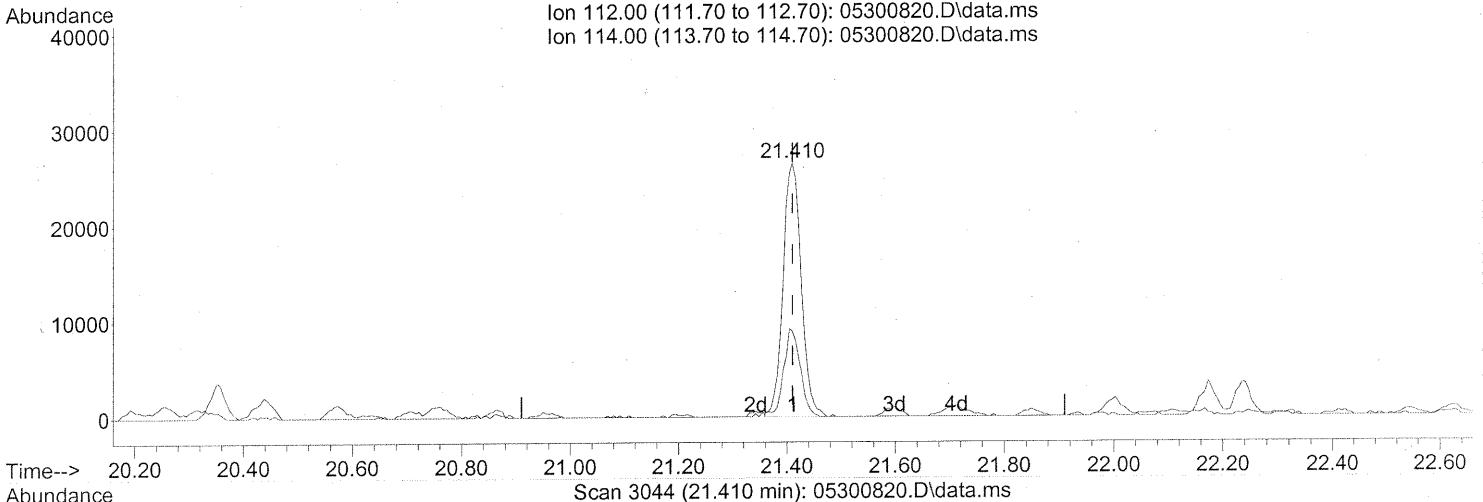
response 49696

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.410min (-0.000) 1.16ng

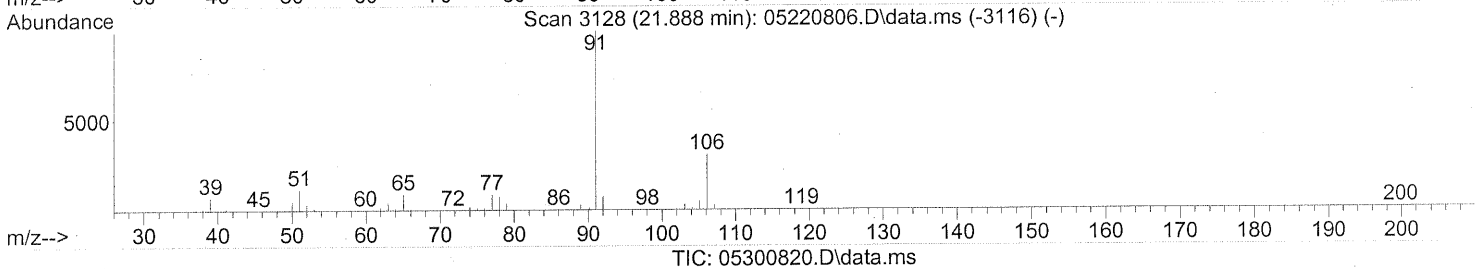
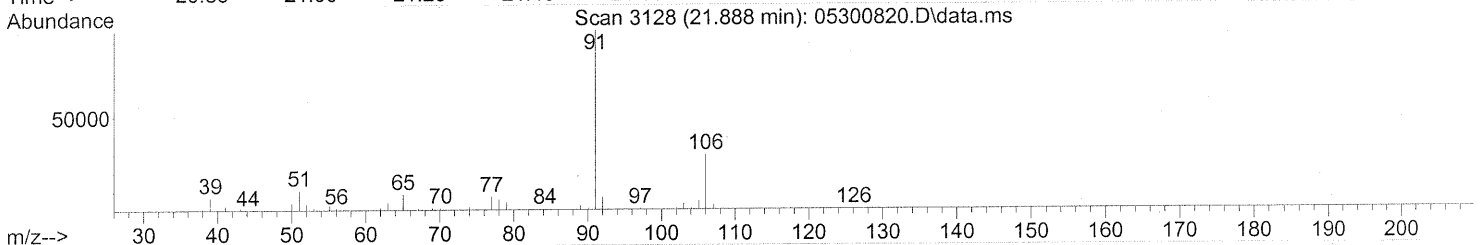
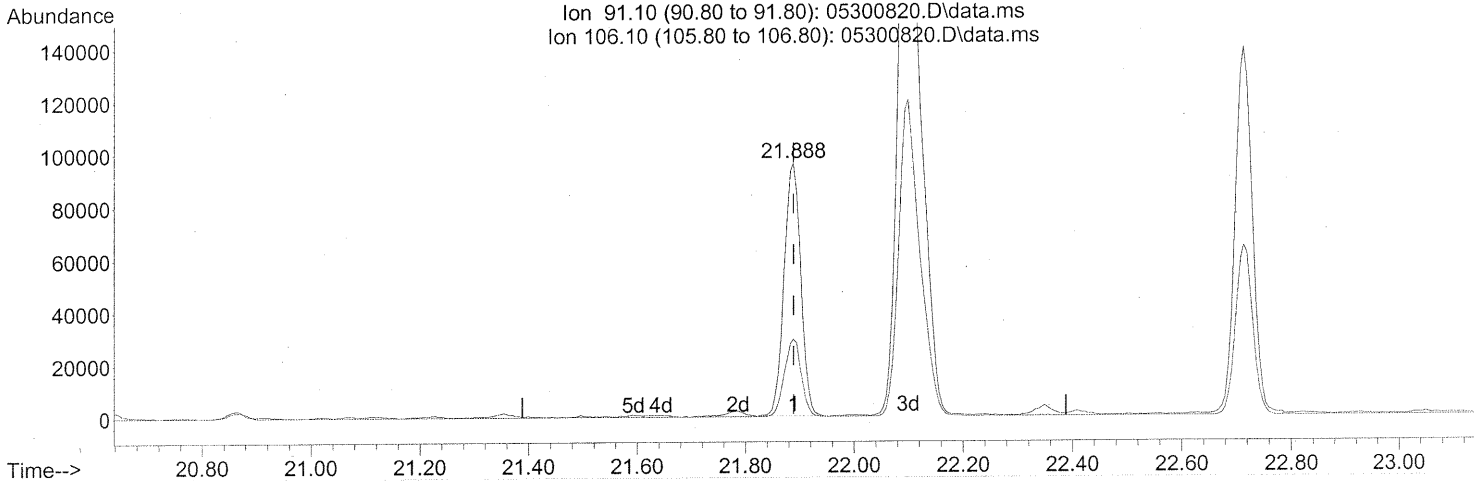
response 61823

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	32.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 2.26ng

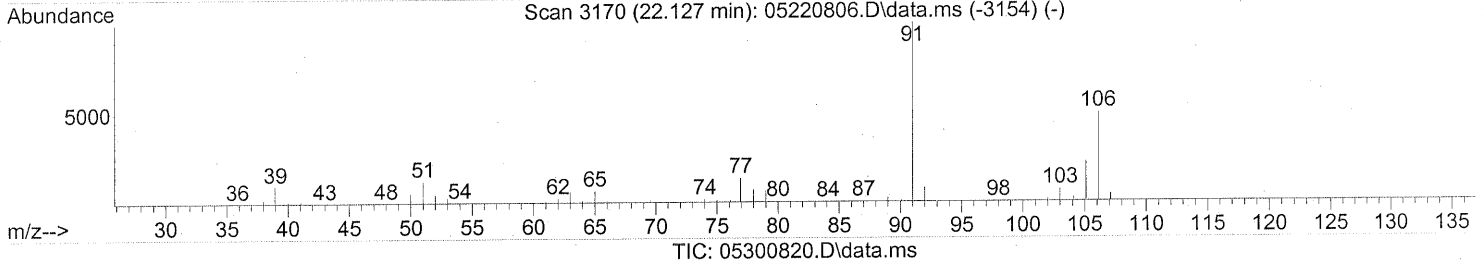
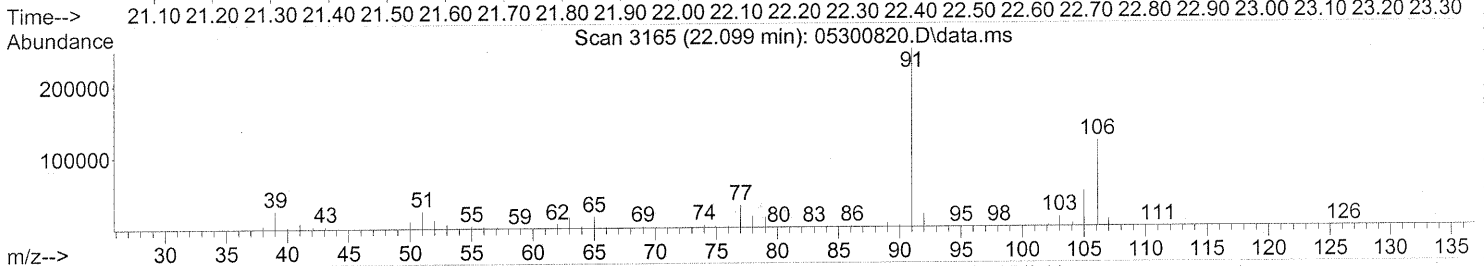
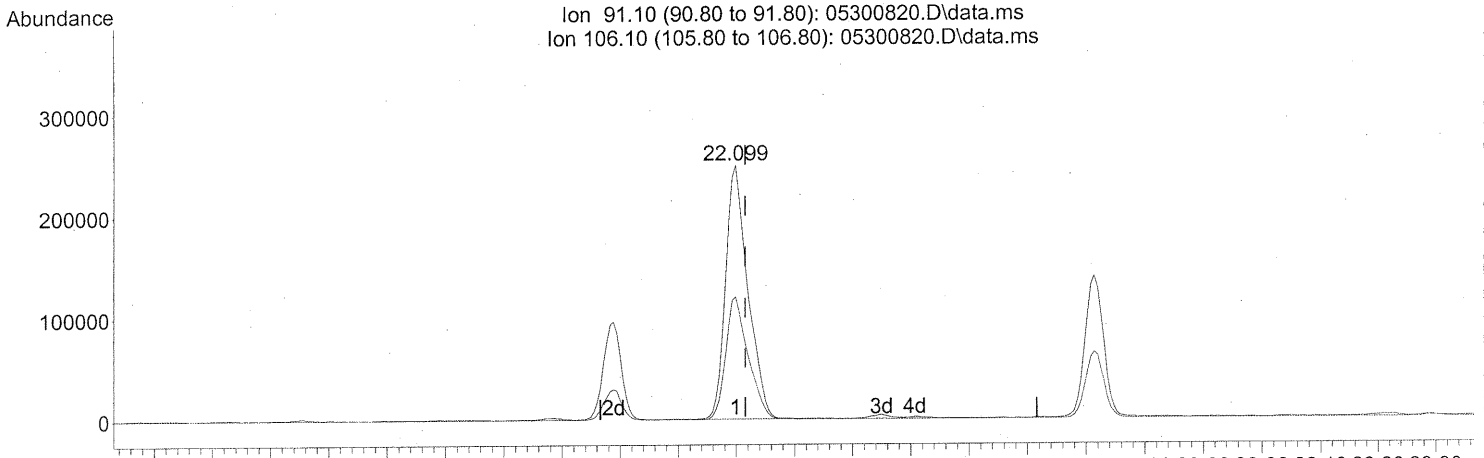
response 205231

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Total)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

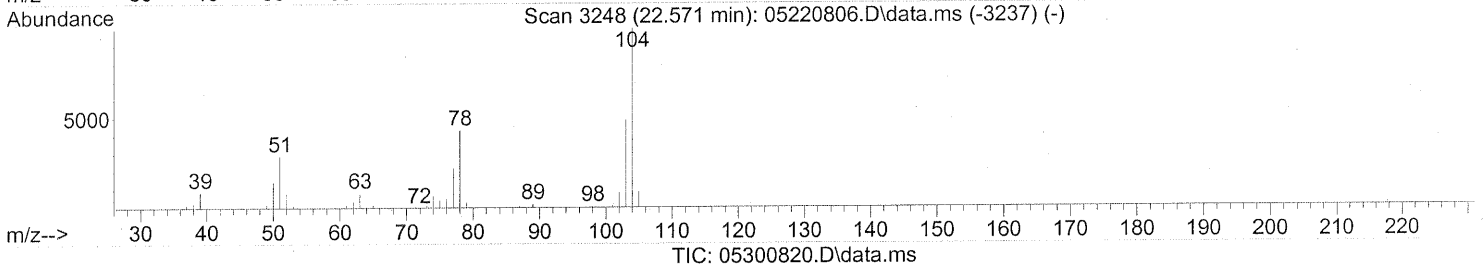
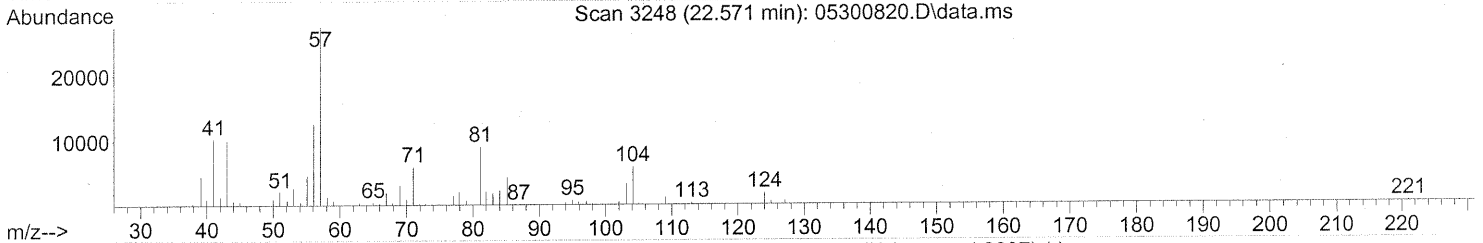
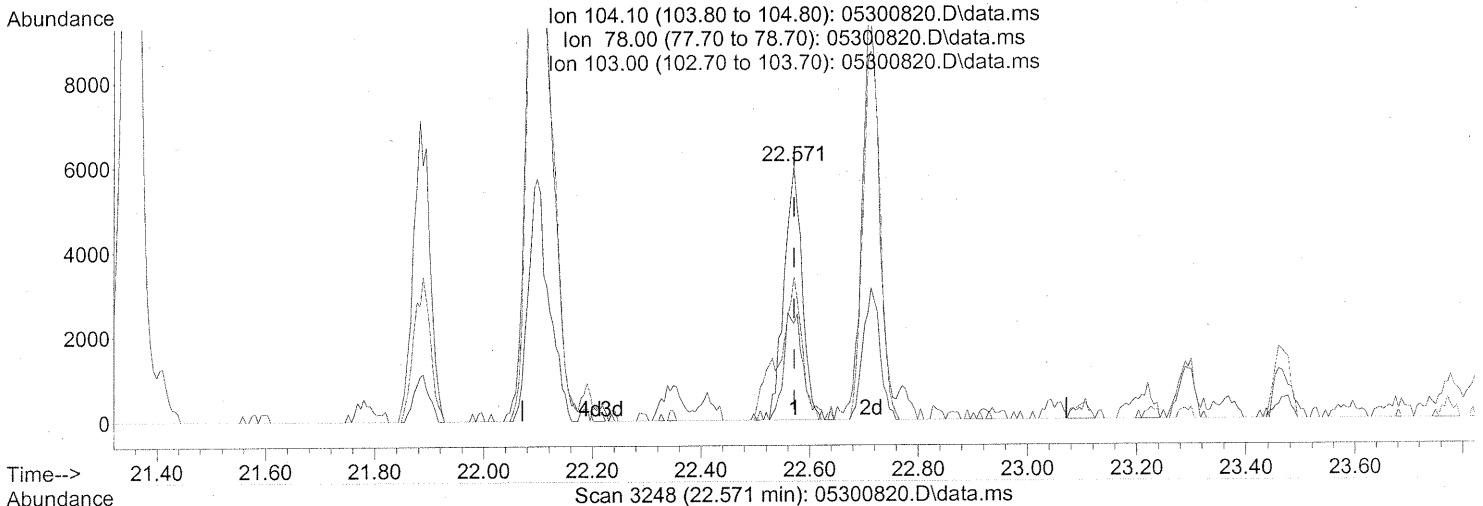
22.099min (-0.017) 11.00ng

response 668607

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.44
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



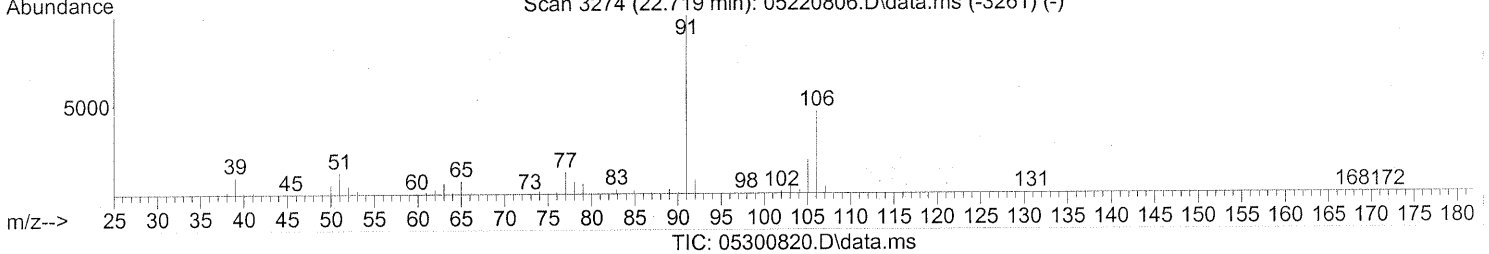
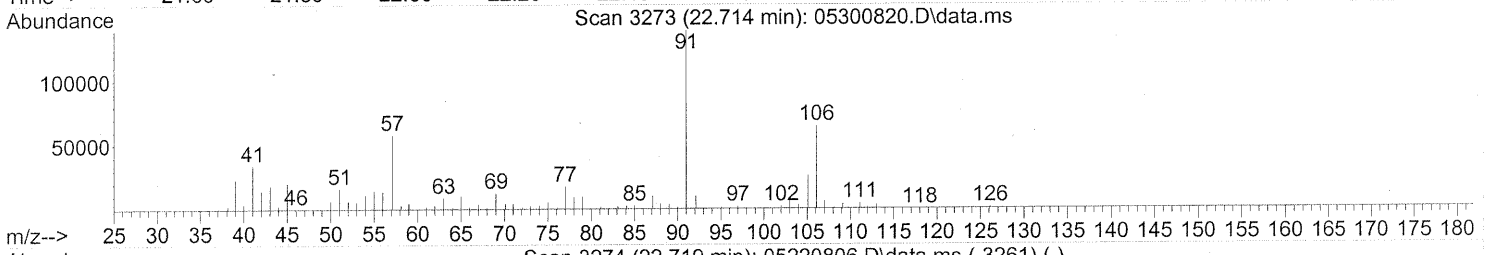
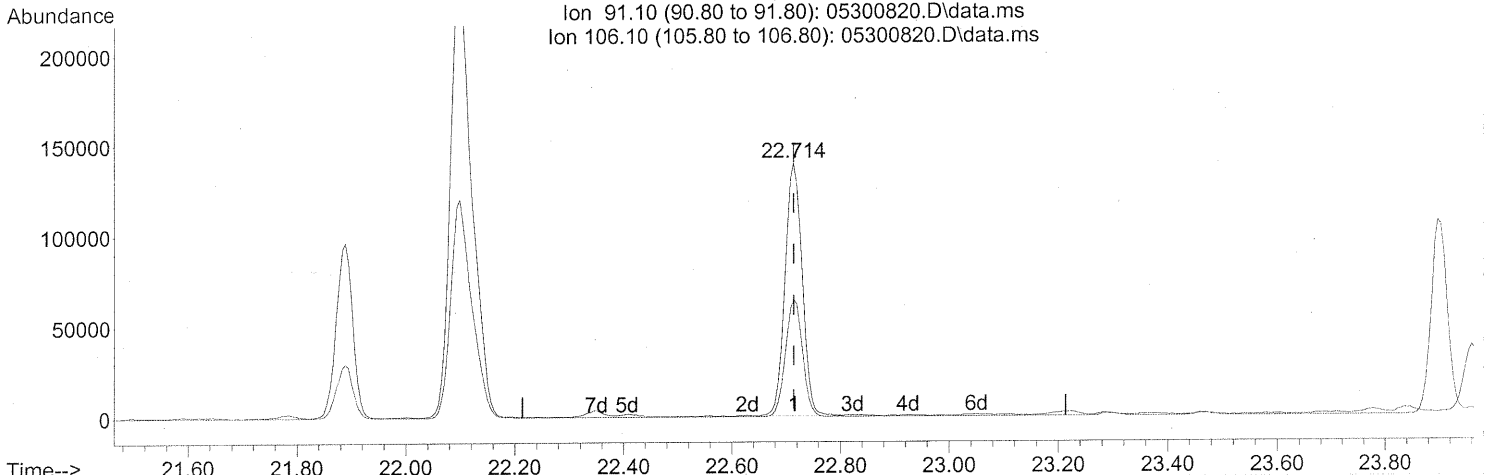
(69) Styrene (T)  
 22.571min (-0.000) 0.25ng  
 response 13717

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	45.18
103.00	47.10	50.62
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 4.67ng

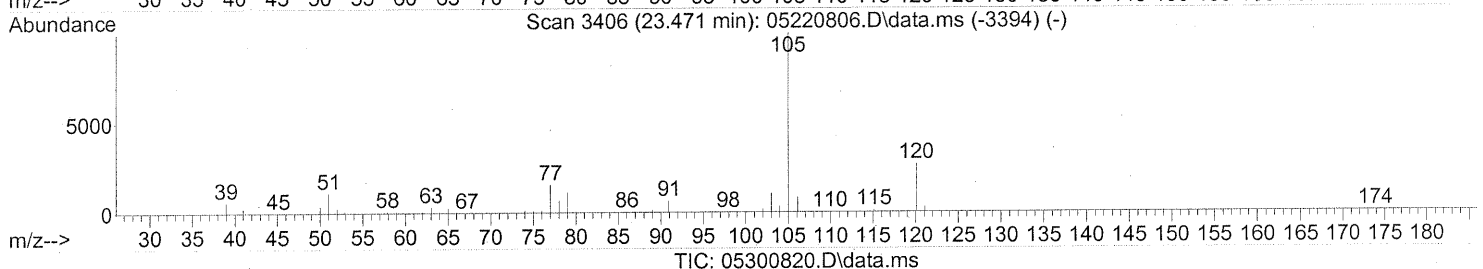
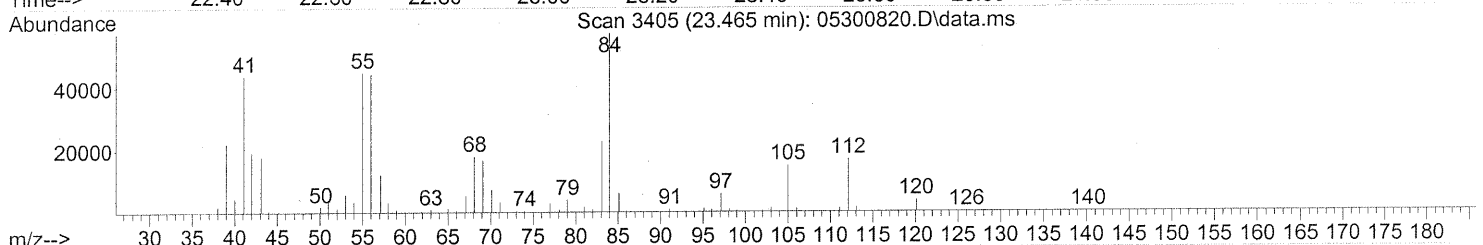
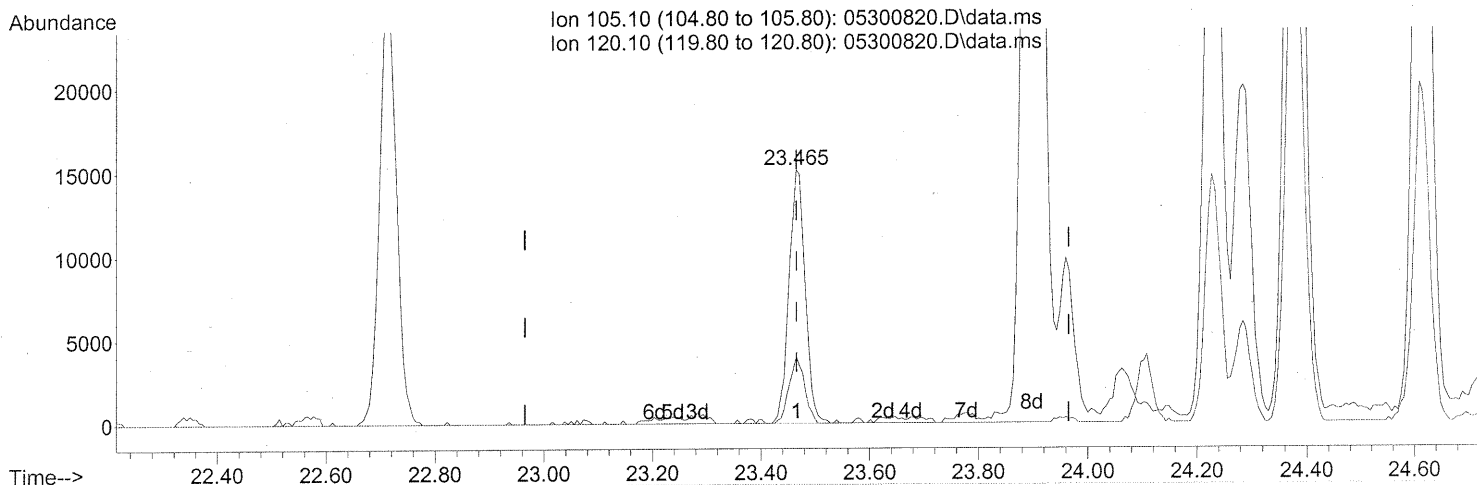
response 306549

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.36ng

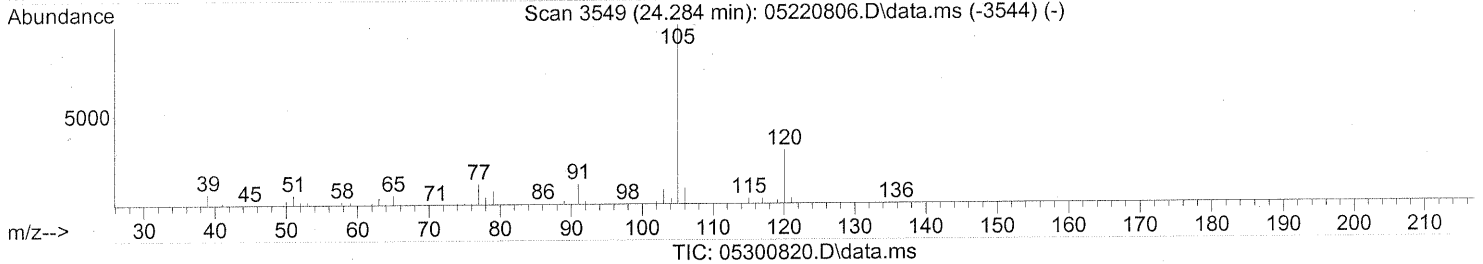
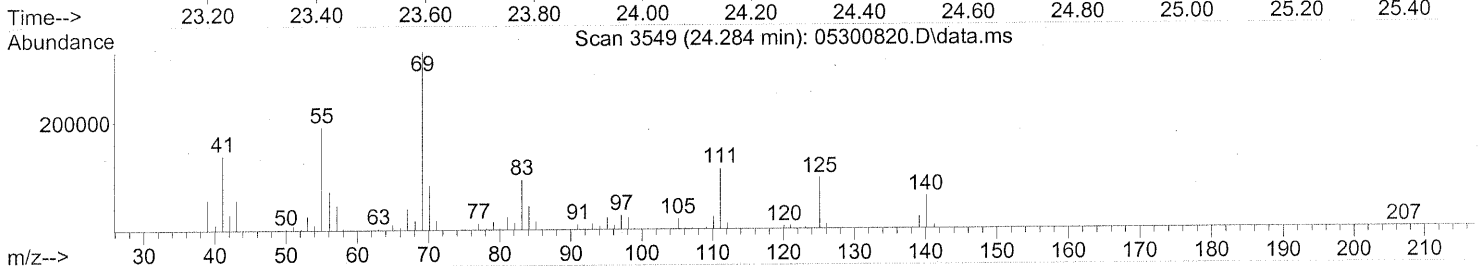
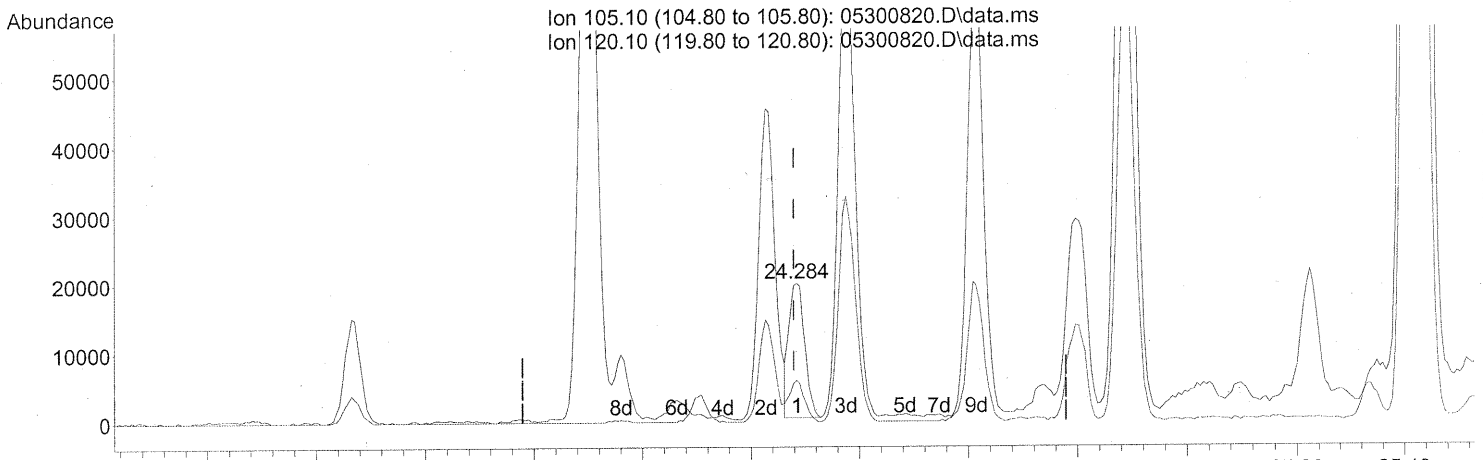
response 31237

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.16
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



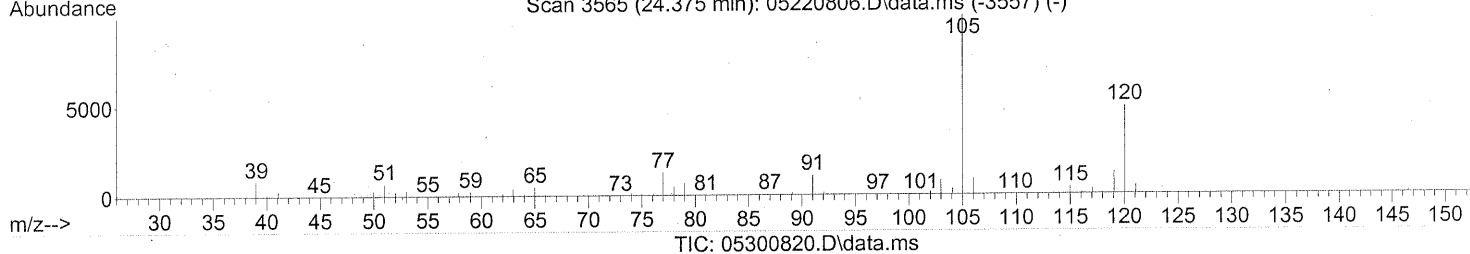
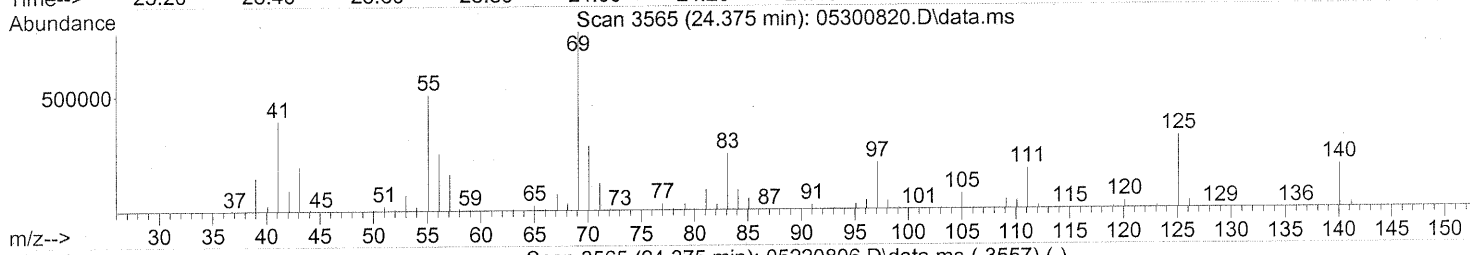
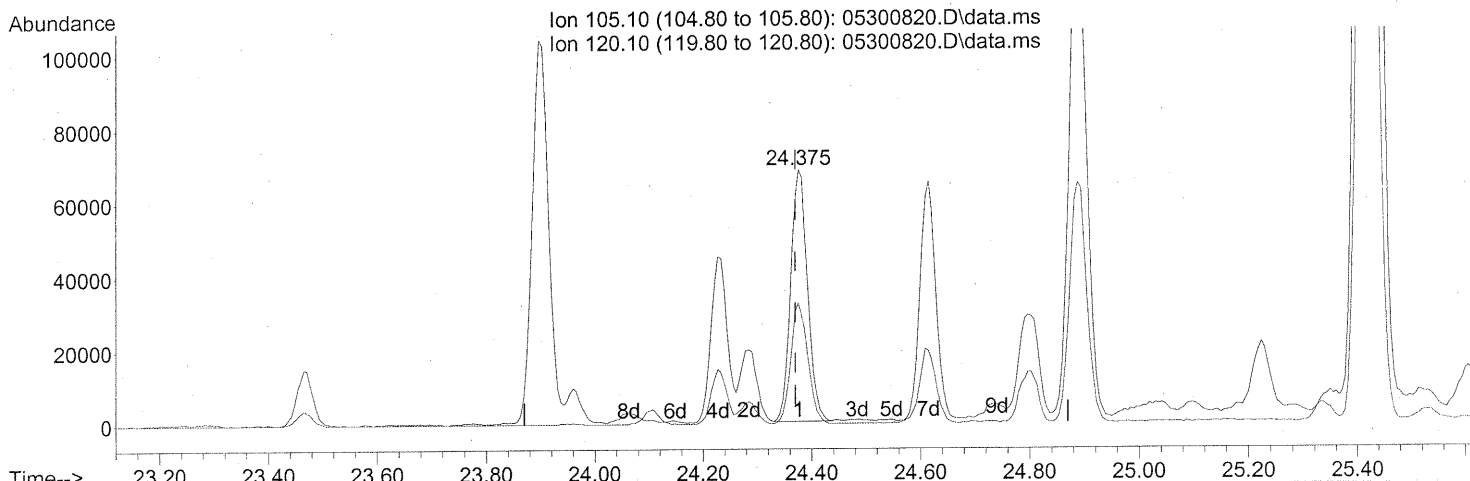
(78) 4-Ethyltoluene (T)  
 24.284min (+0.006) 0.46ng  
 response 39669

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.375min (+0.006) 1.88ng

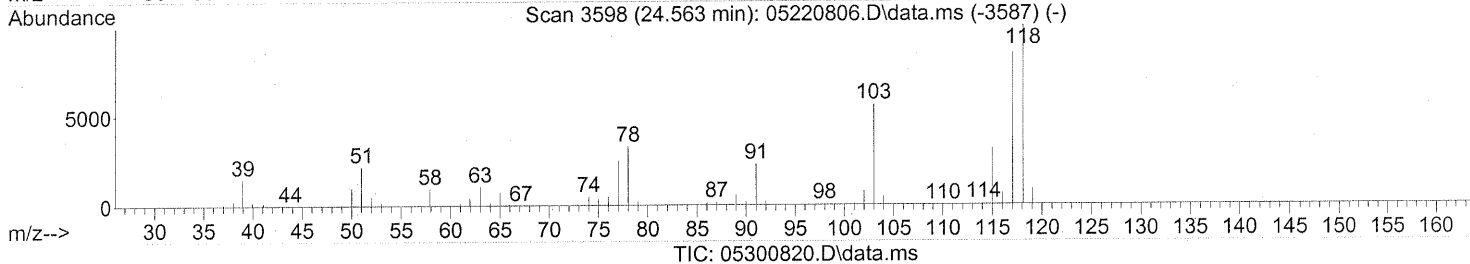
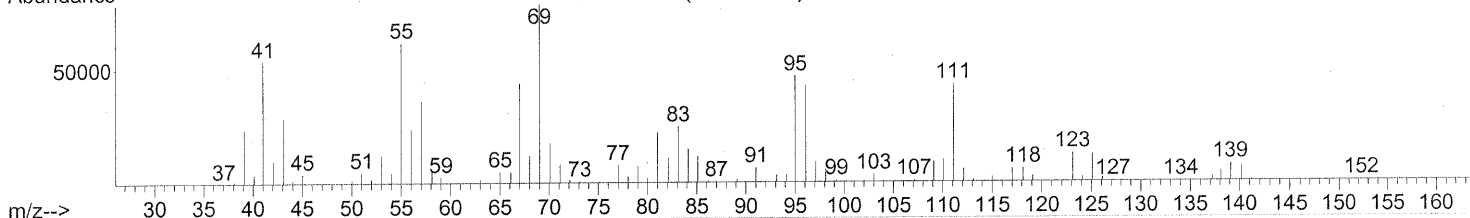
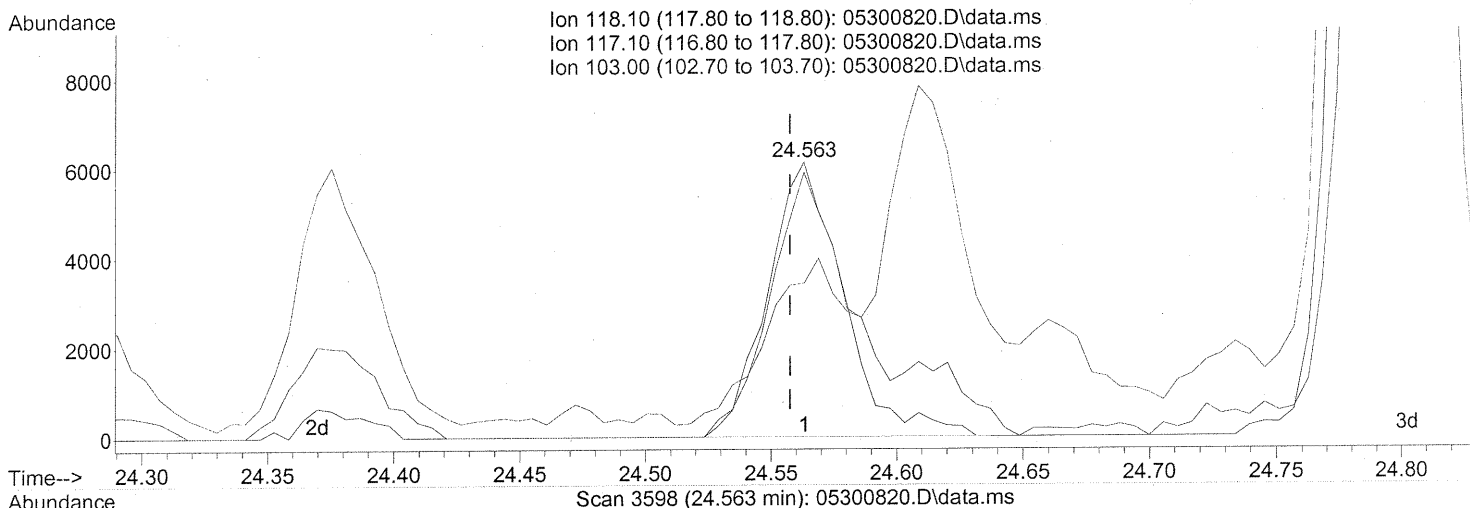
response 147349

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.30ng

response 12843

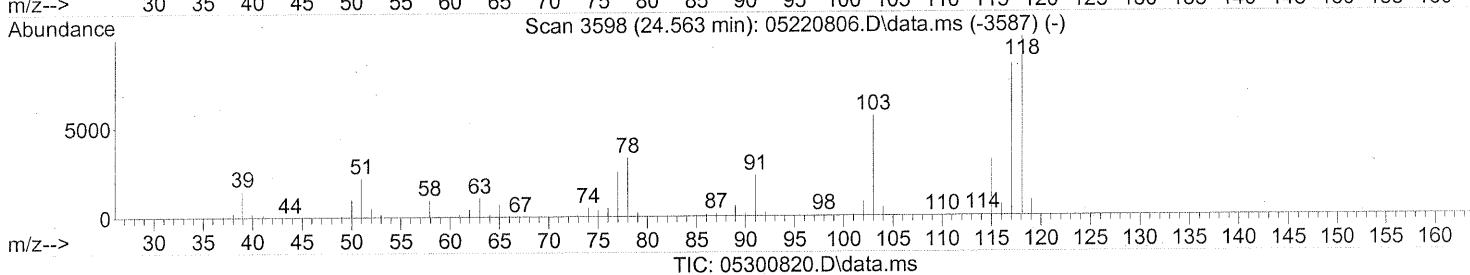
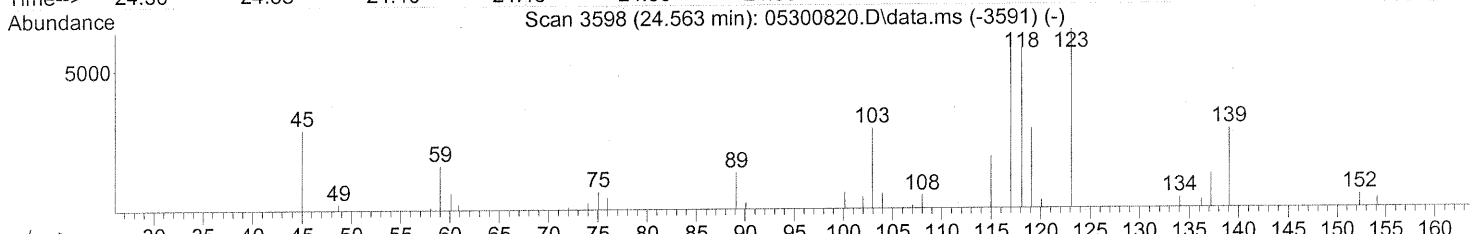
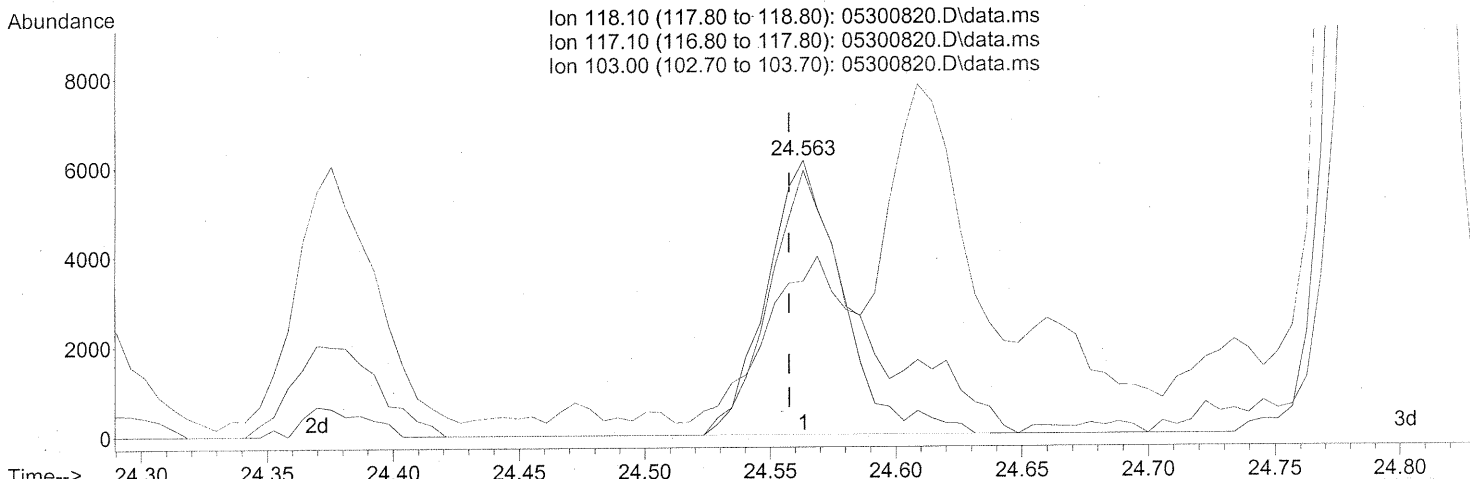
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	120.70#
103.00	55.30	65.77
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.30ng

response 12843

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	120.70#
103.00	55.30	65.77
0.00	0.00	0.00

AFTER SUBTRACTION

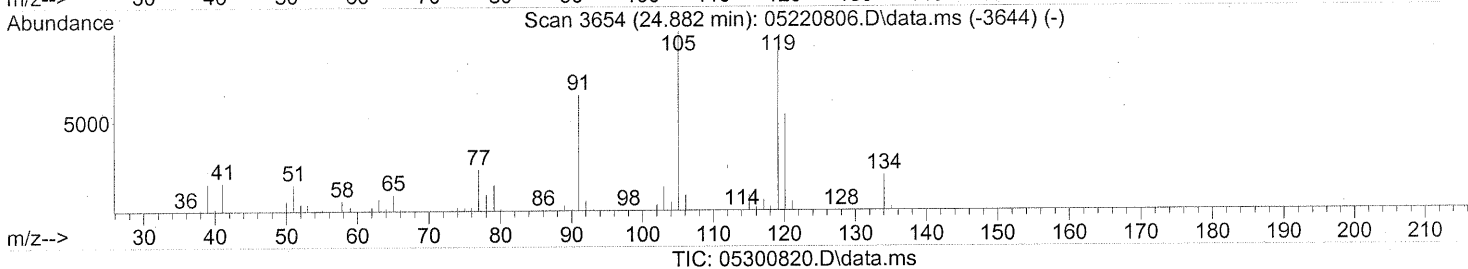
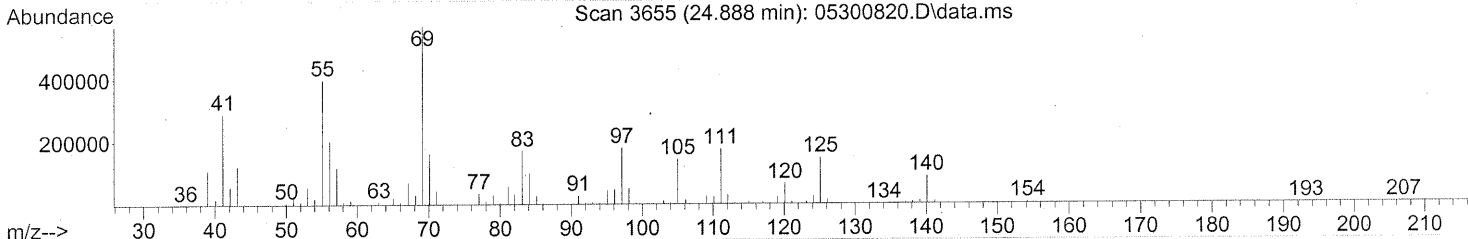
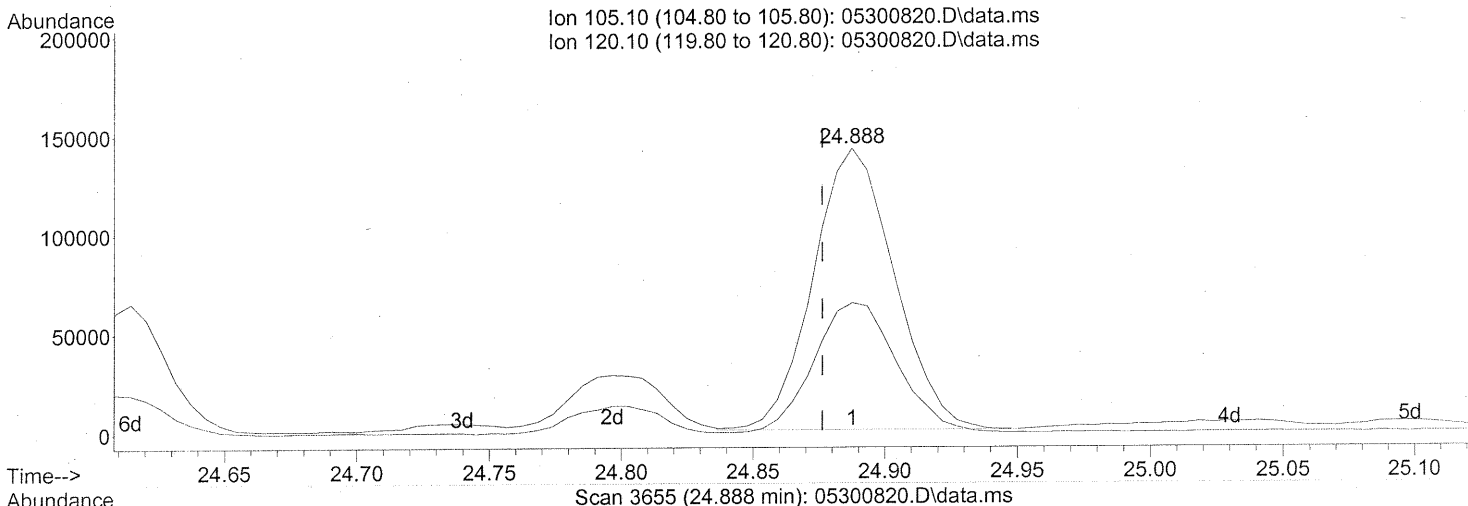
*Bo 6/5/08*

*E. 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.888min (+0.011) 3.79ng

response 302250

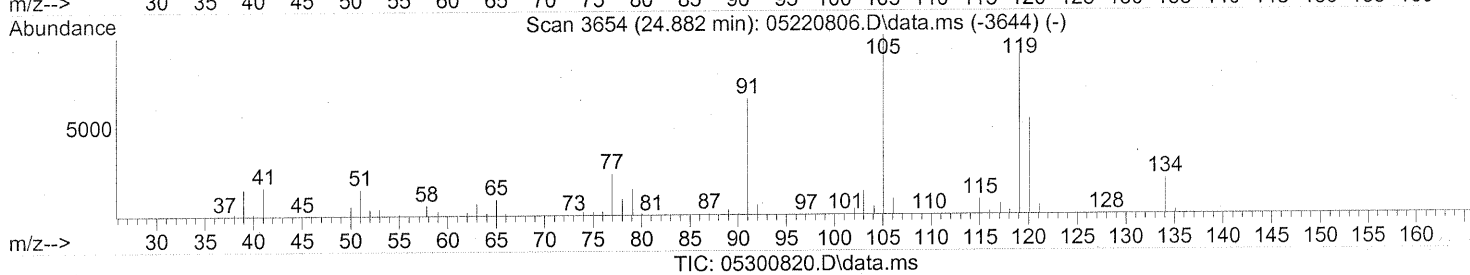
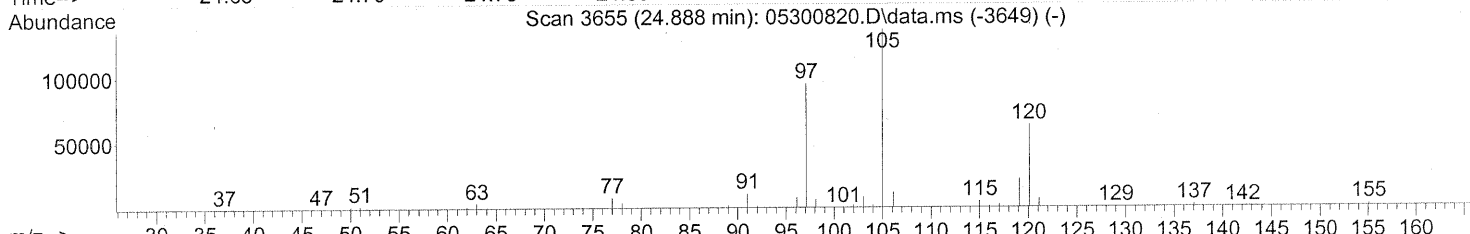
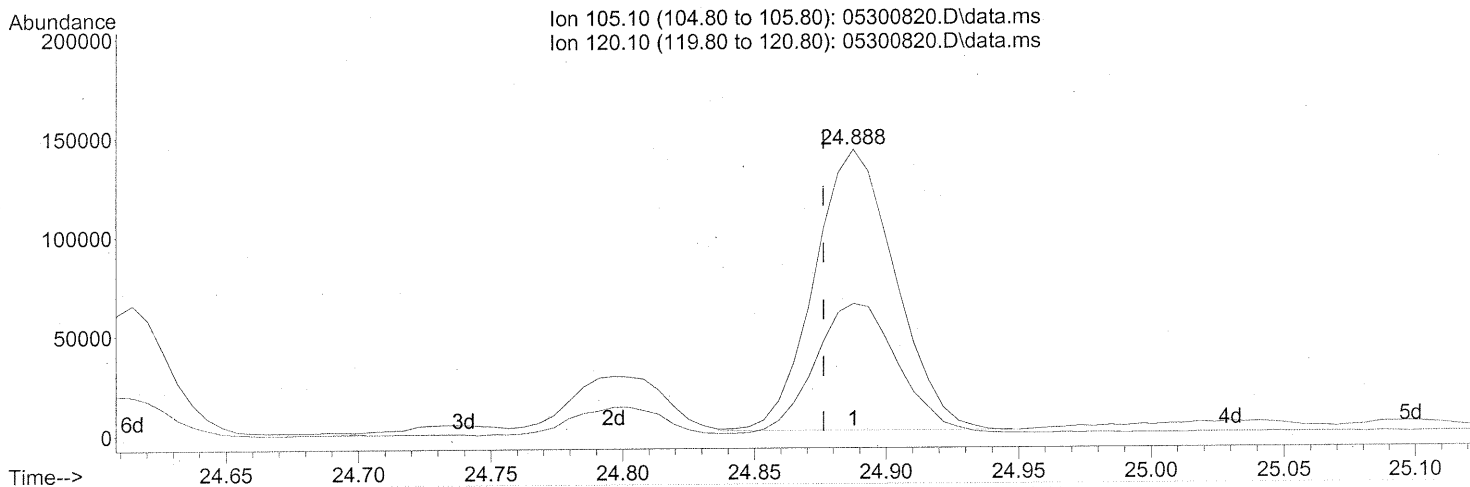
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.16
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

24.888min (+0.011) 3.79ng

response 302250

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.16
0.00	0.00	0.00
0.00	0.00	0.00

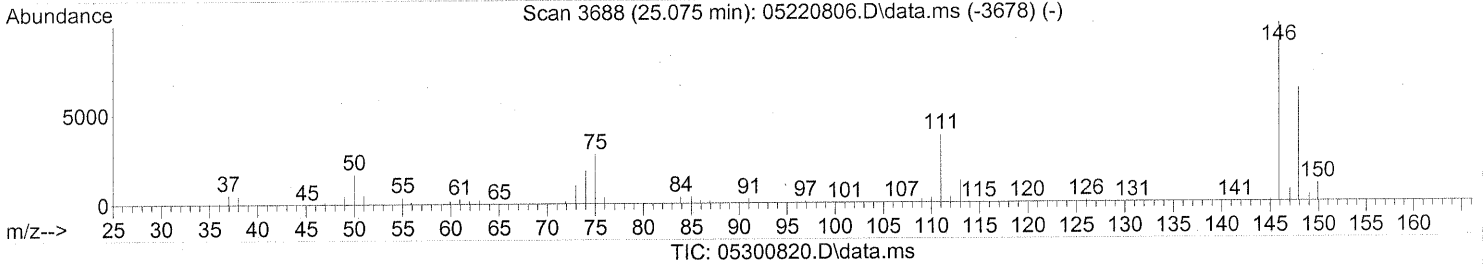
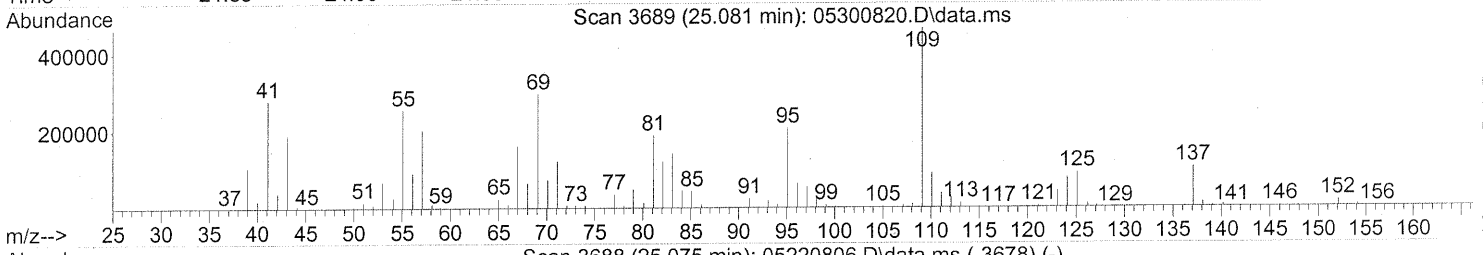
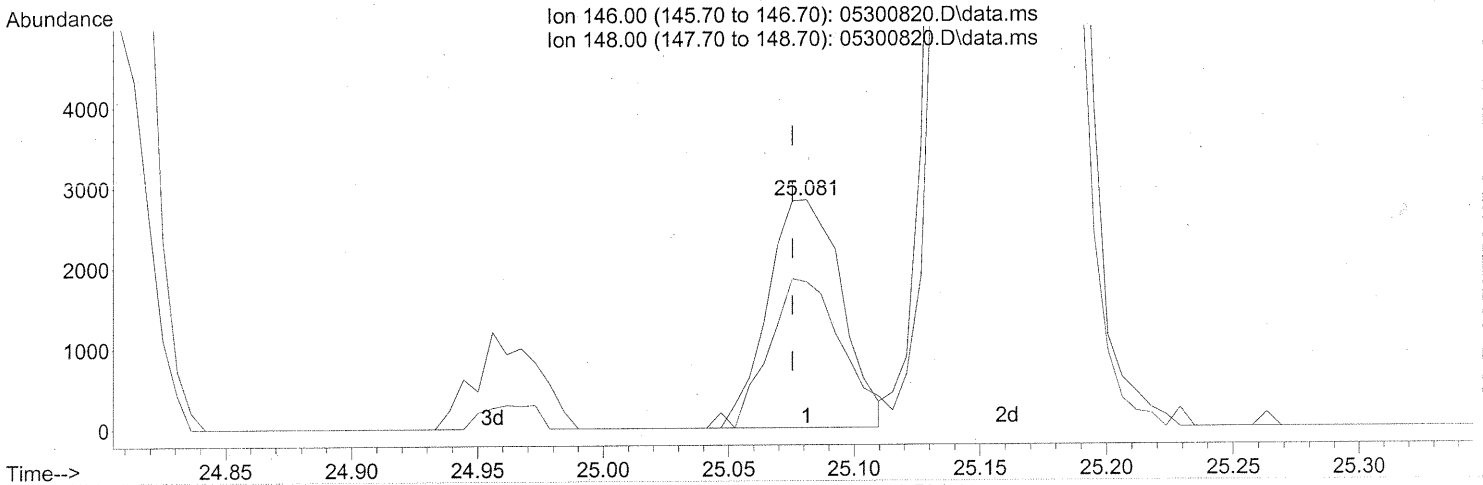
AFTER SUBTRACTION  
6/9/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.081min (+0.006) 0.12ng

response 5779

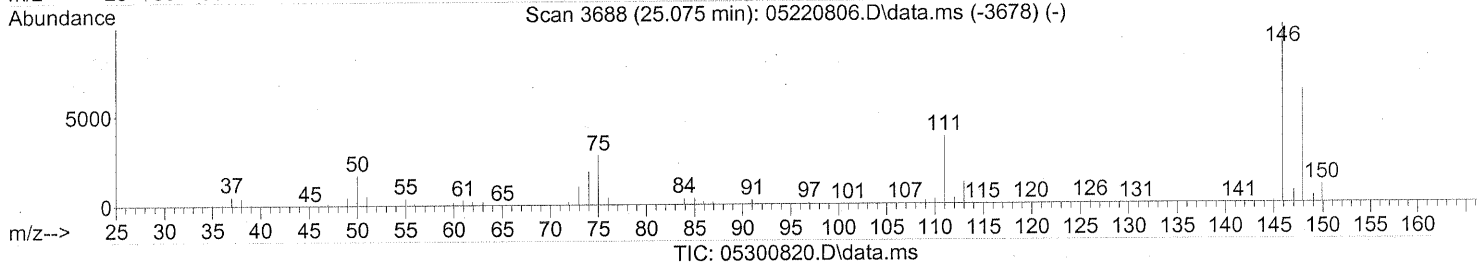
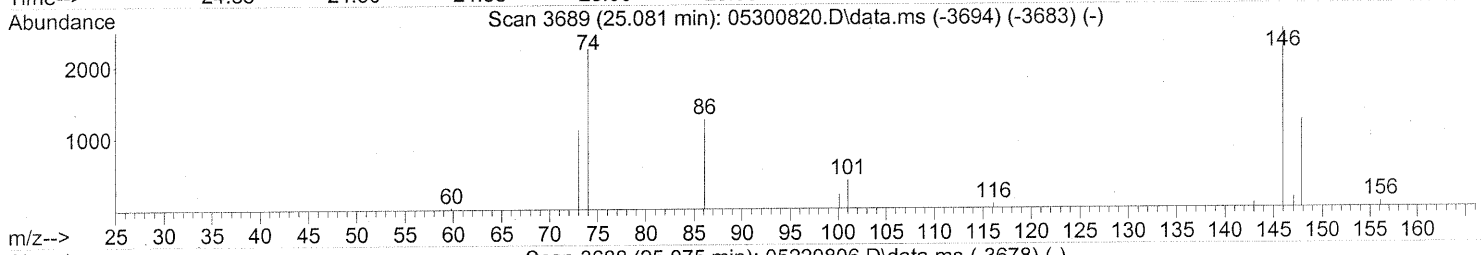
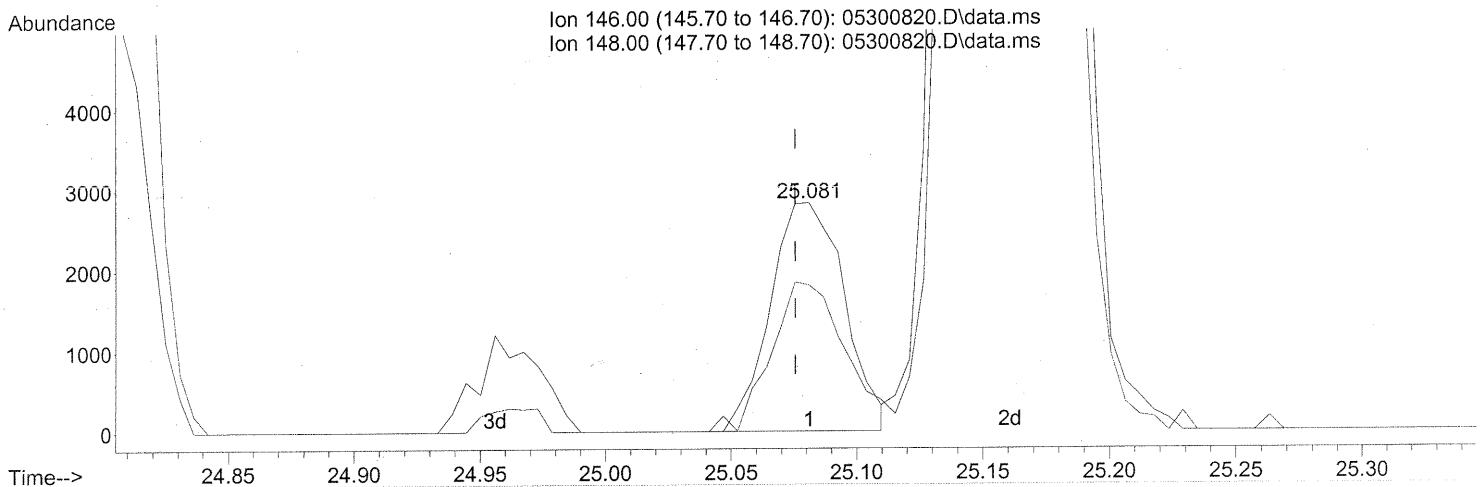
Ion	Exp%	Act%
146.00	100	100
148.00	64.00	66.34
0.00	0.00	0.00
0.00	0.00	0.00

**BEFORE SUBTRACTION**

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.081min (+0.006) 0.12ng

response 5779

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	66.34
0.00	0.00	0.00
0.00	0.00	0.00

~~BEFORE~~ AFTER SUBTRACTION

*Fog/05/08*

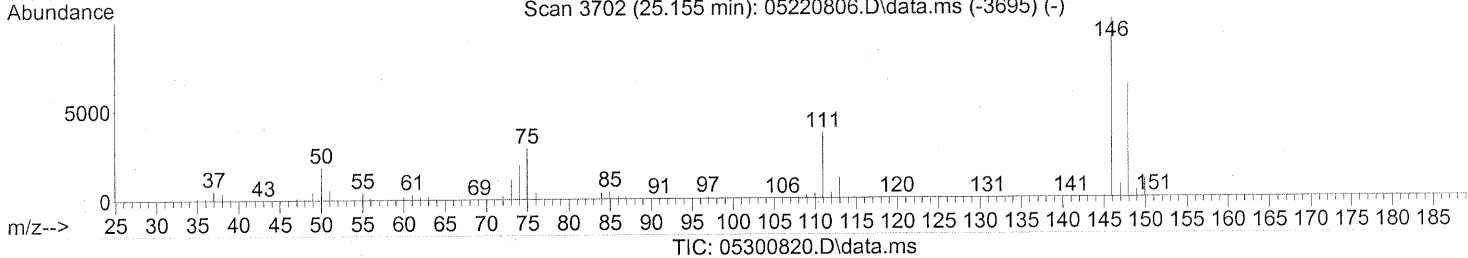
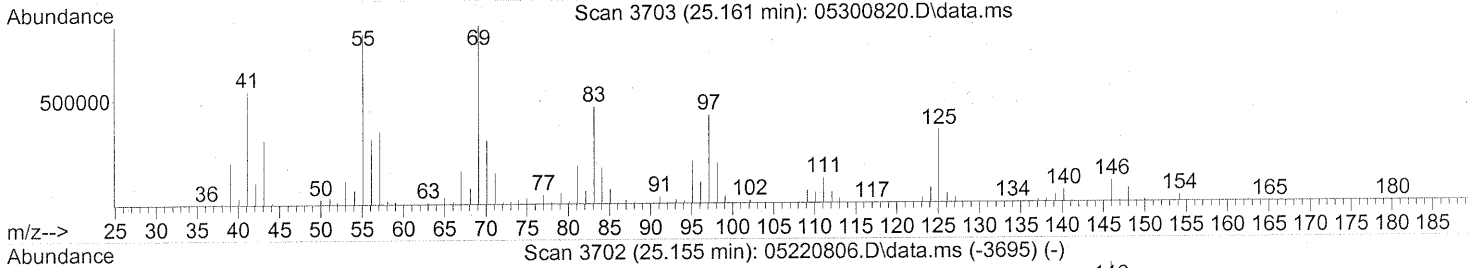
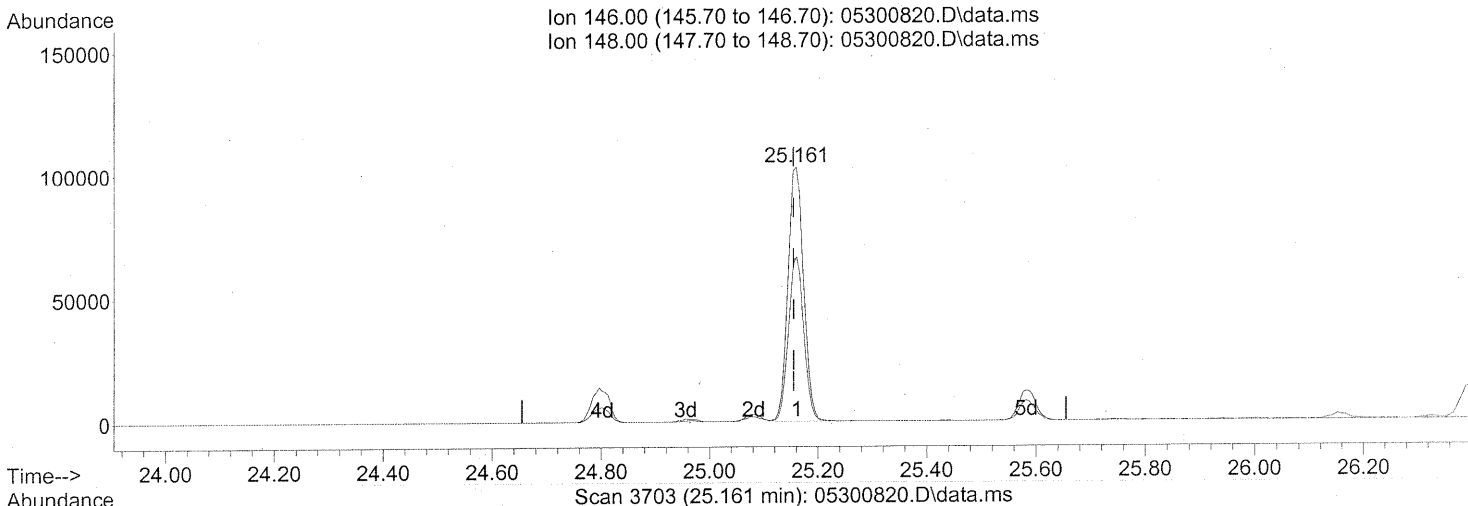
*6/9/08*



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.161min (+0.006) 4.27ng

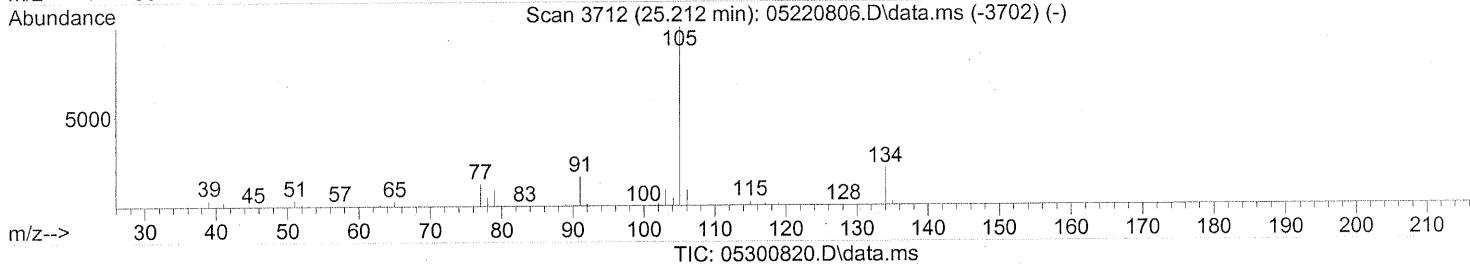
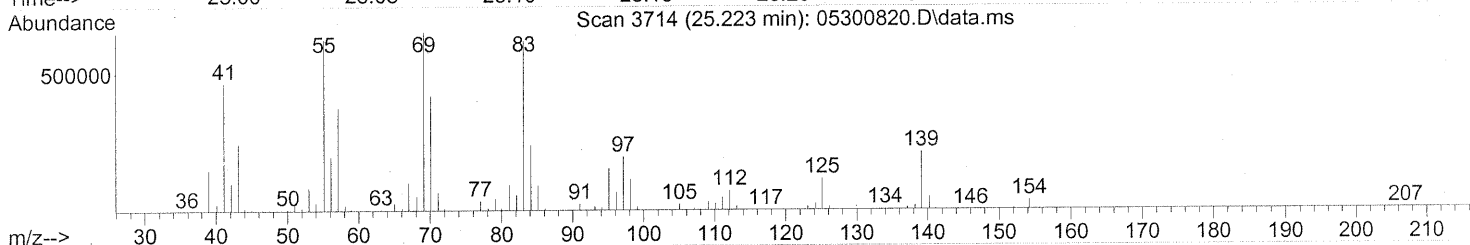
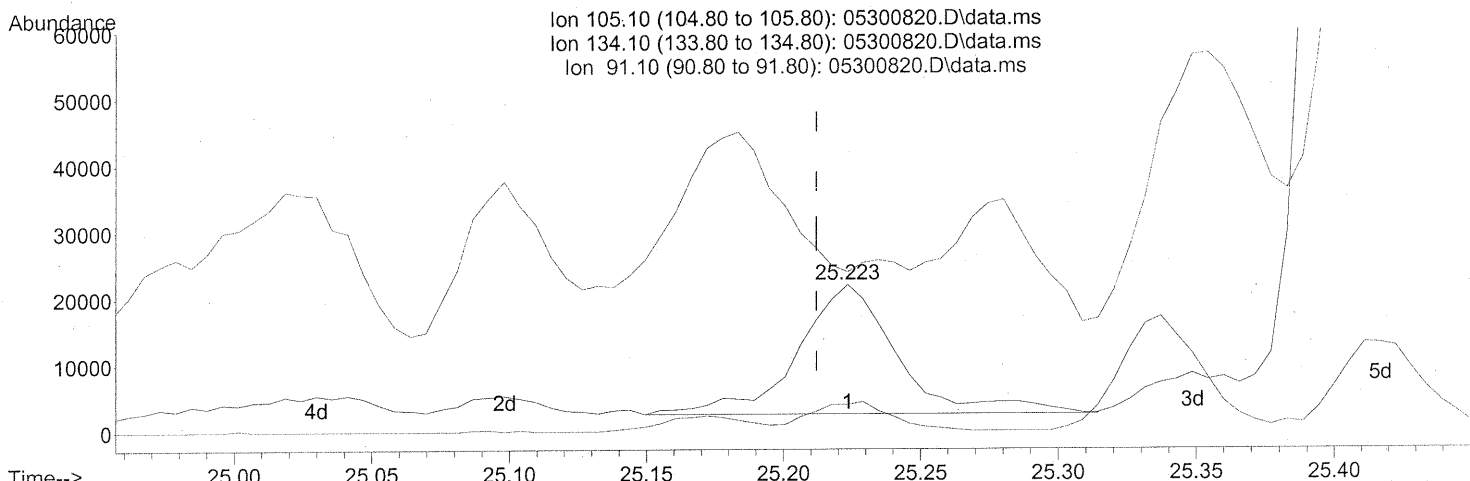
response 206638

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.223min (+0.011) 0.48ng

response 48723

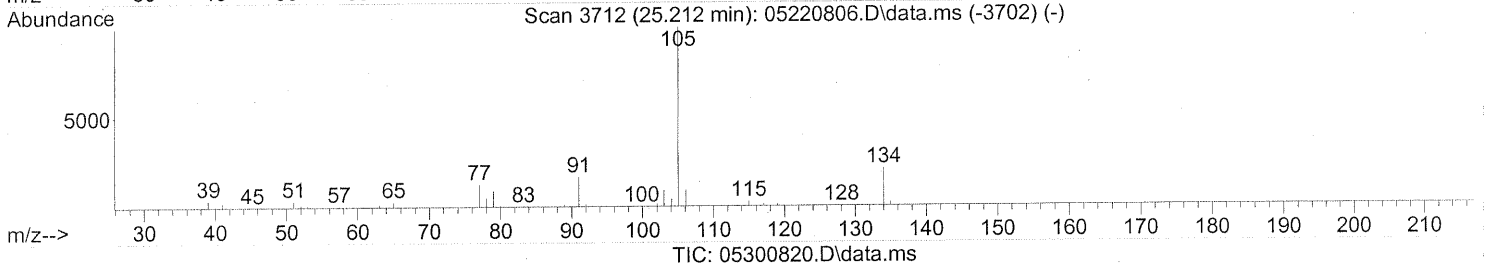
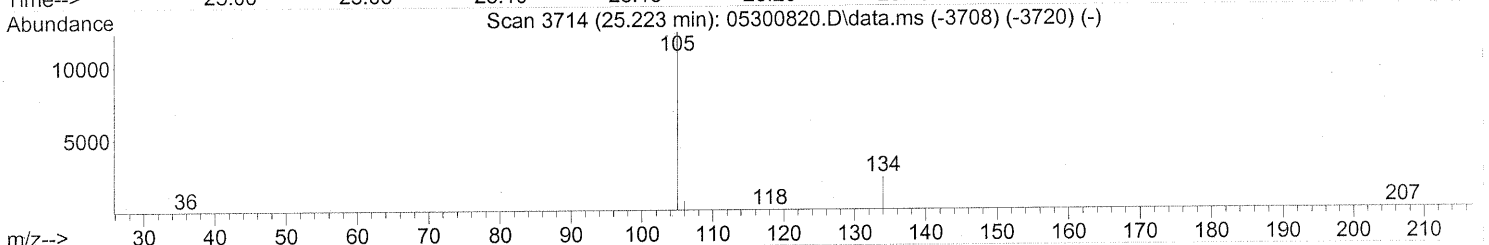
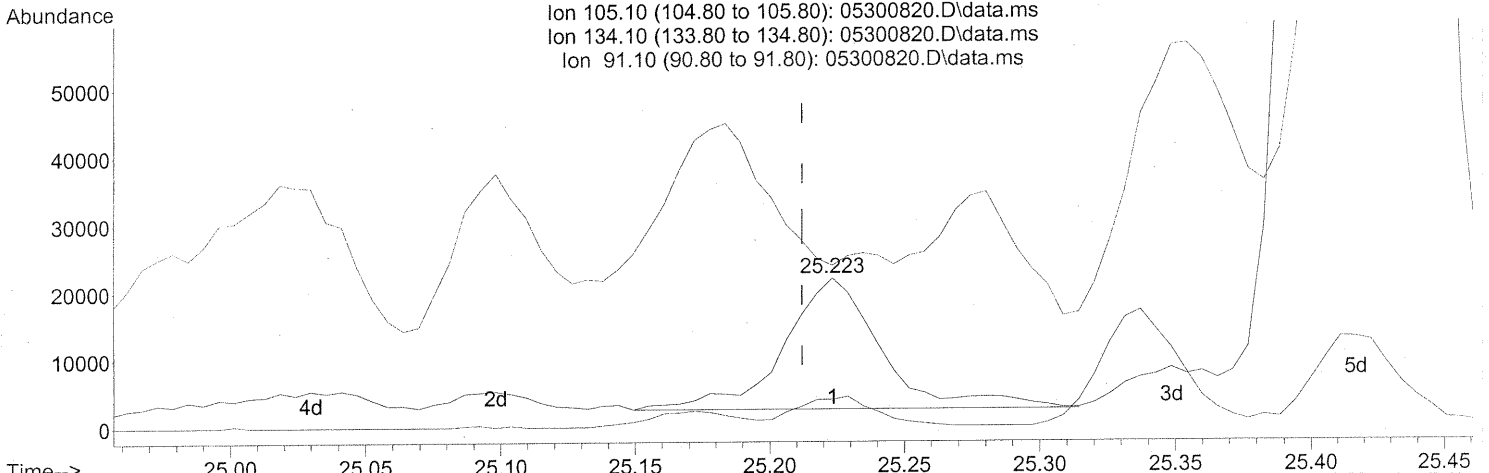
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	18.01
91.10	14.60	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(87) sec-Butylbenzene (T)  
25.223min (+0.011) 0.48ng  
response 48723

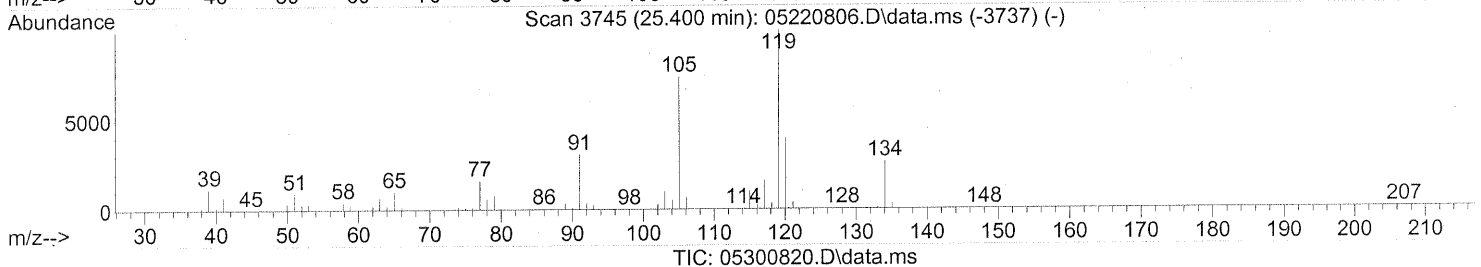
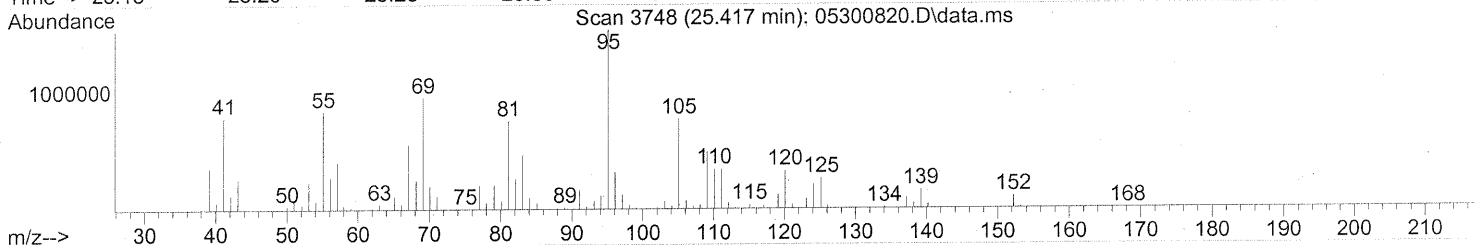
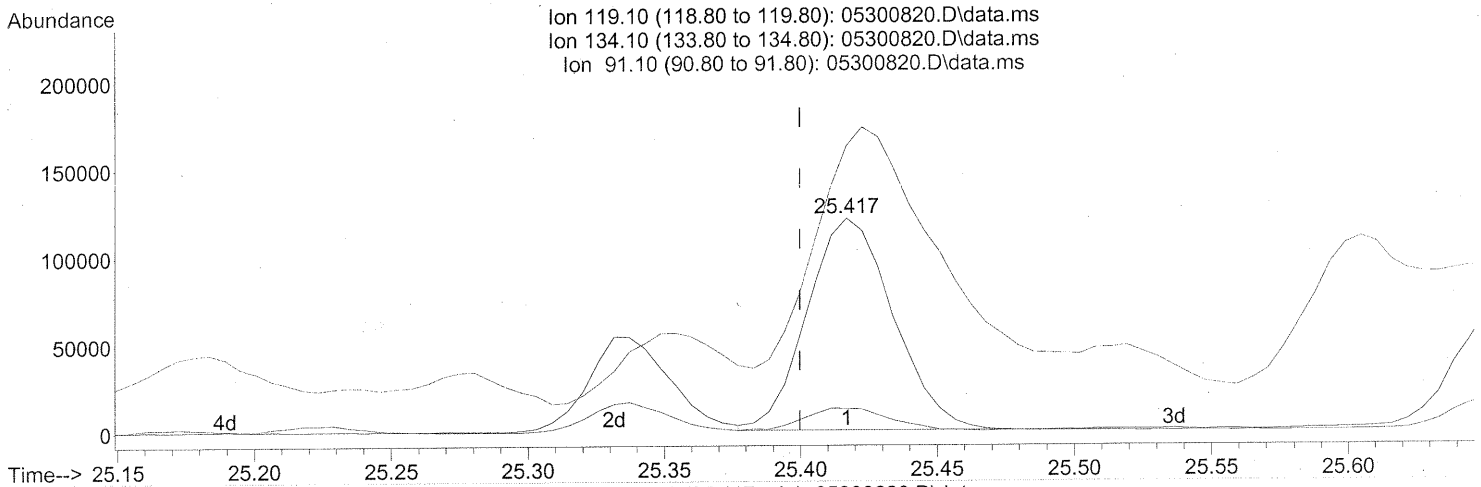
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	18.01
91.10	14.60	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
F 06/05/08  
E. 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.417min (+0.017) 3.14ng

response 263225

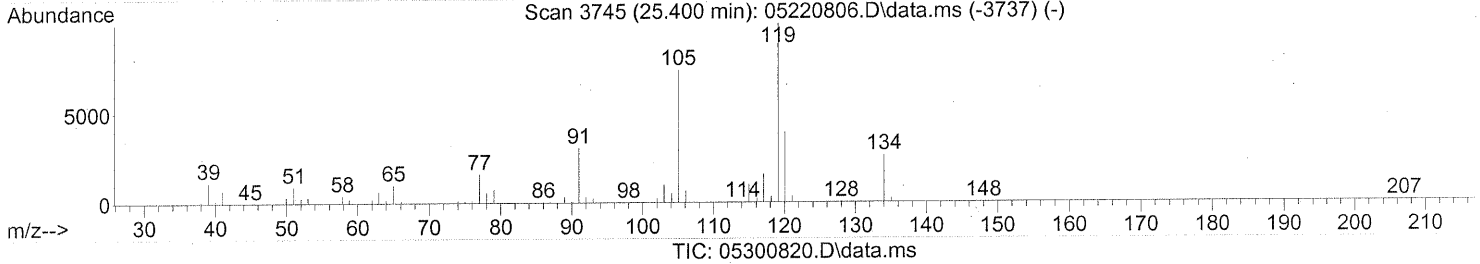
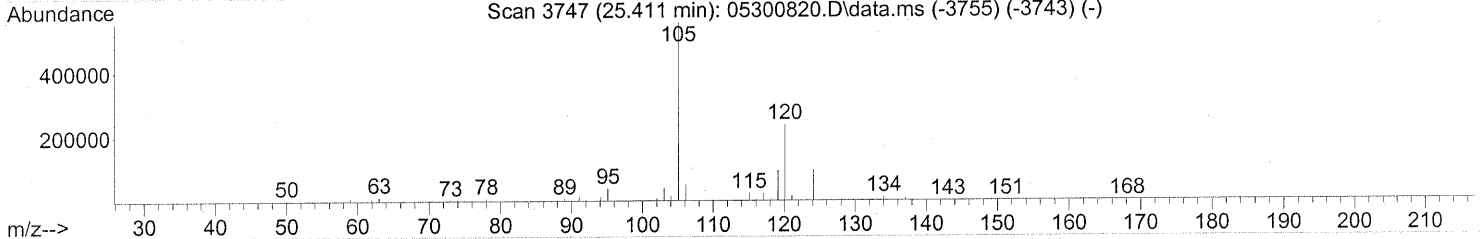
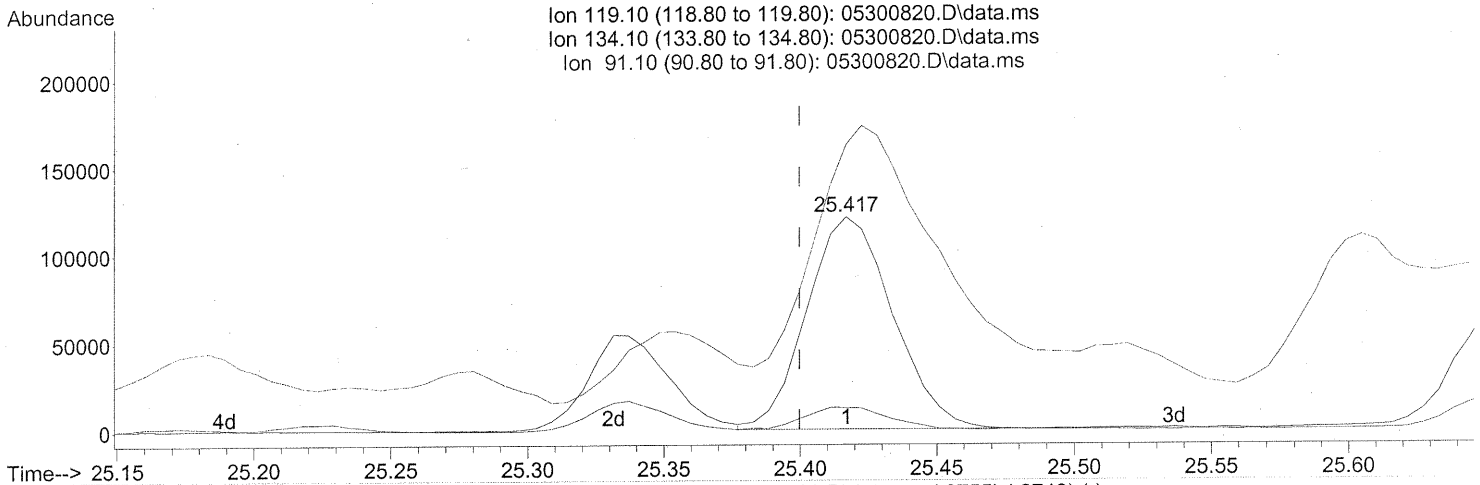
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	10.74
91.10	27.10	196.81#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Cont)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.417min (+0.017) 3.14ng

response 263225

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	10.74
91.10	27.10	196.81#
0.00	0.00	0.00

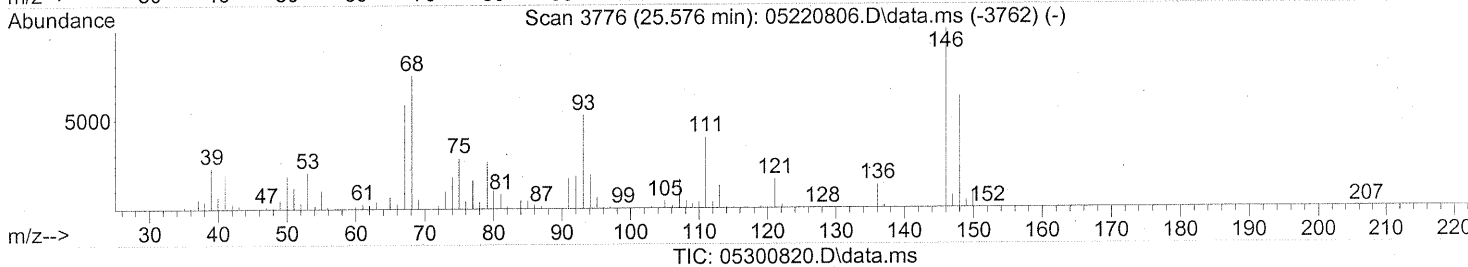
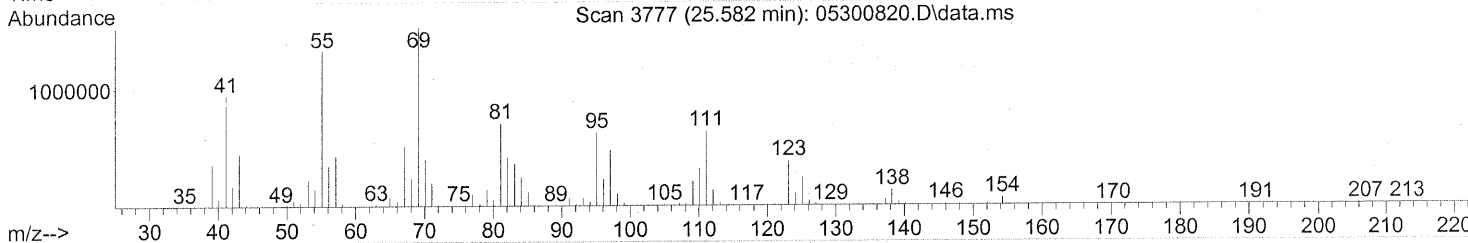
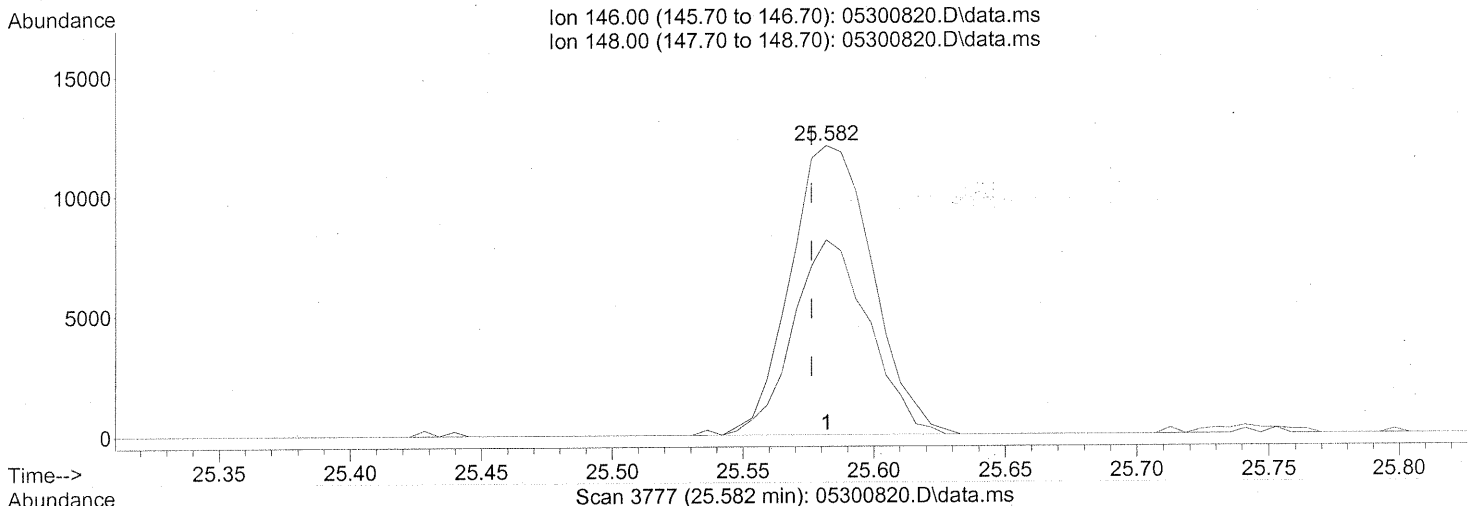
AFTER SUBTRACTION

*Handwritten signature*

*Handwritten date: 6/9/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.582min (+0.006) 0.56ng

response 26267

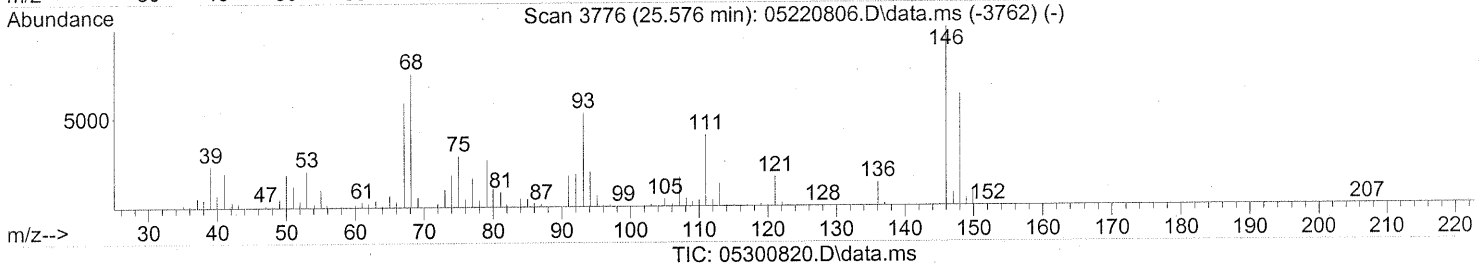
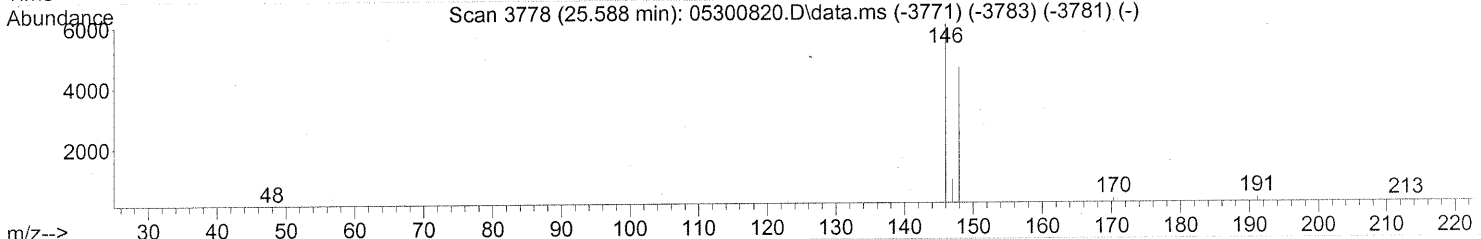
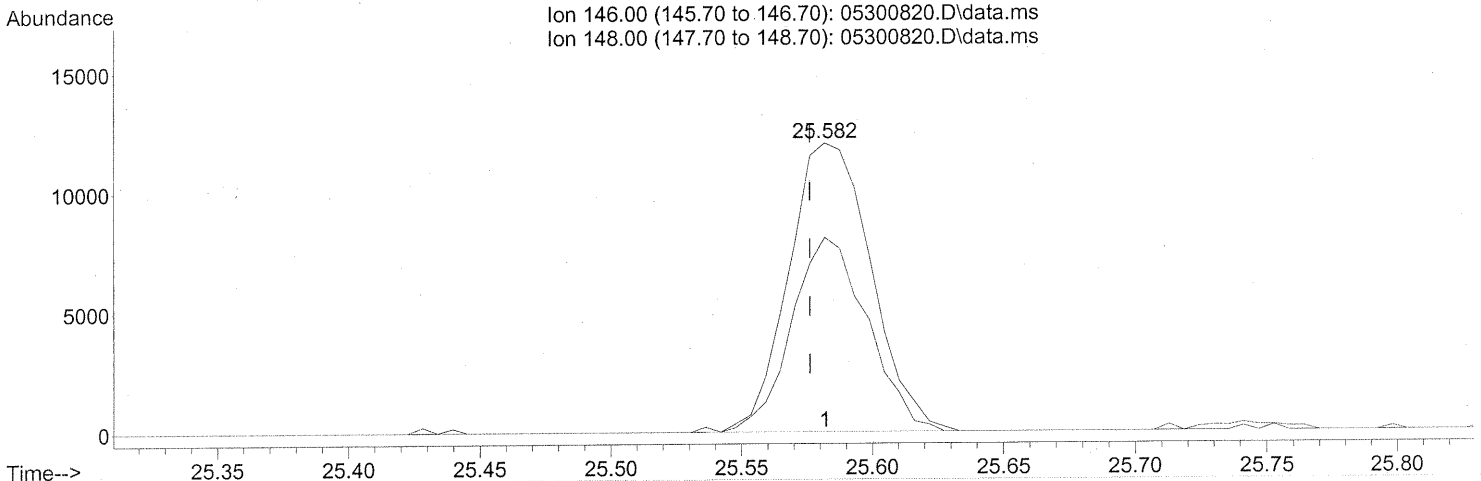
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.15
0.00	0.00	0.00
0.00	0.00	0.00

**BEFORE SUBTRACTION**

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.582min (+0.006) 0.56ng

response 26267

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.15
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

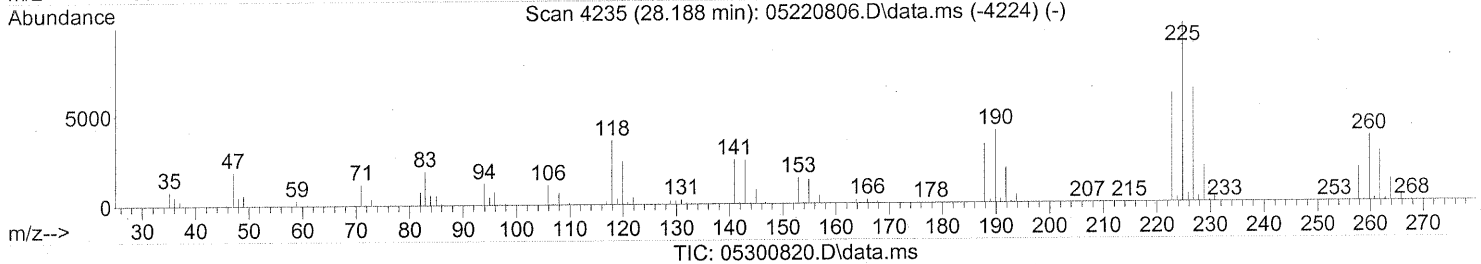
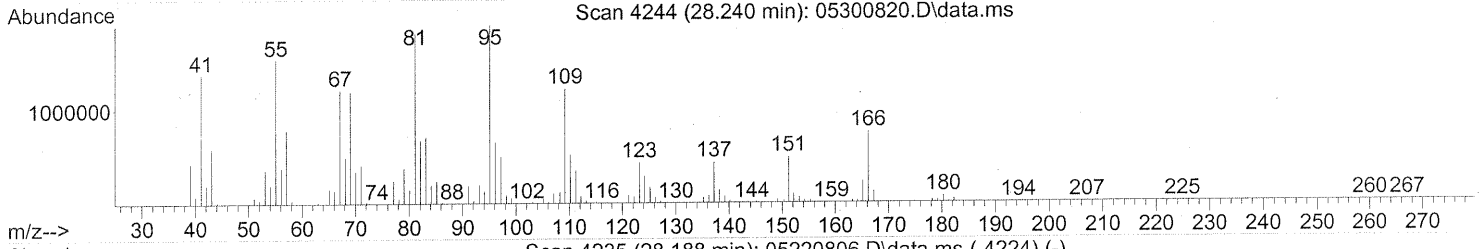
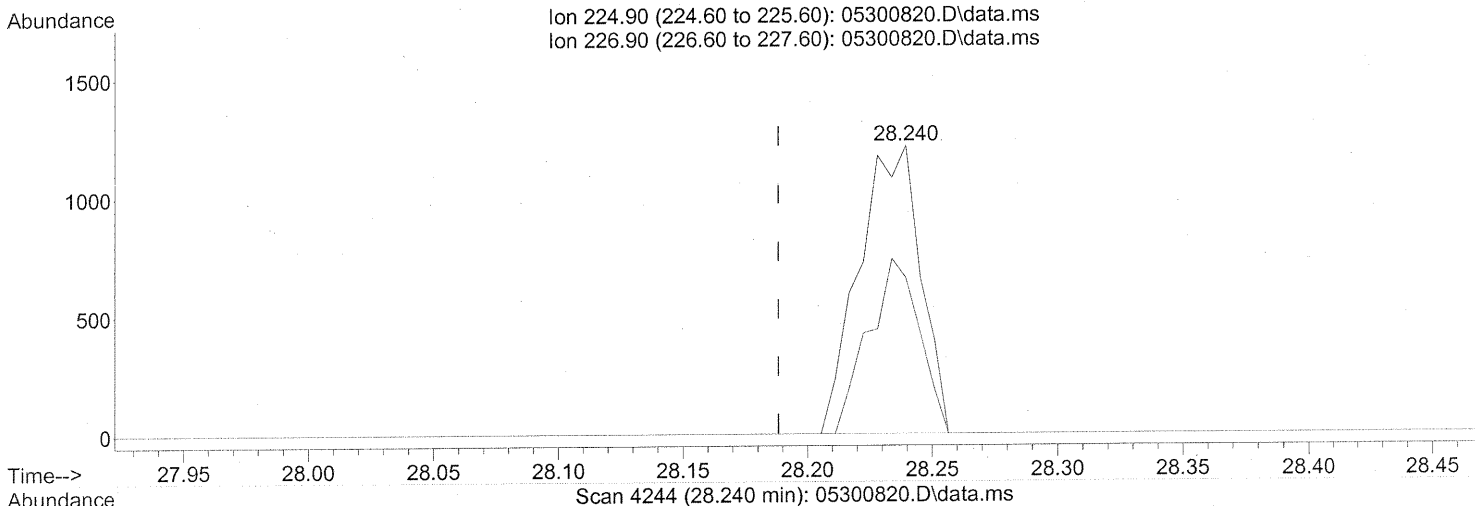
6/5/08

E. G. (signature)

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

28.240min (+0.051) 0.09ng

response 2073

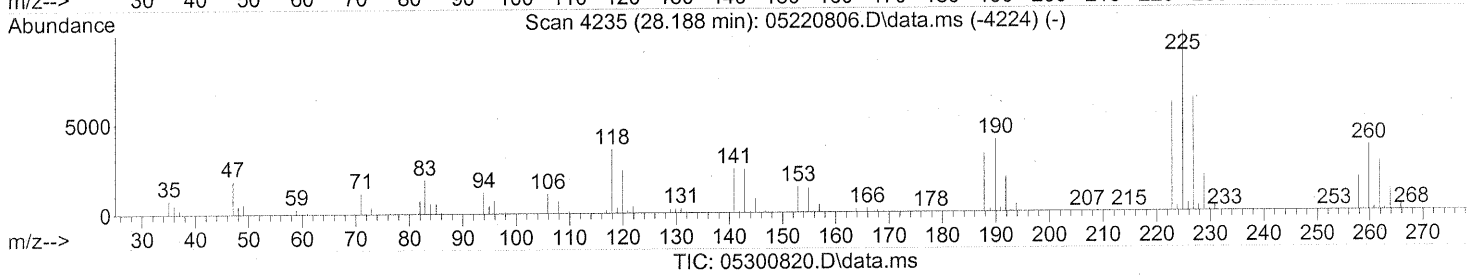
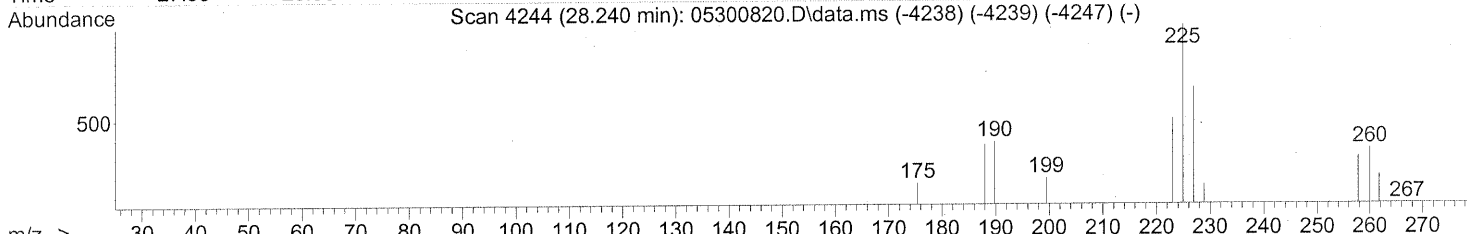
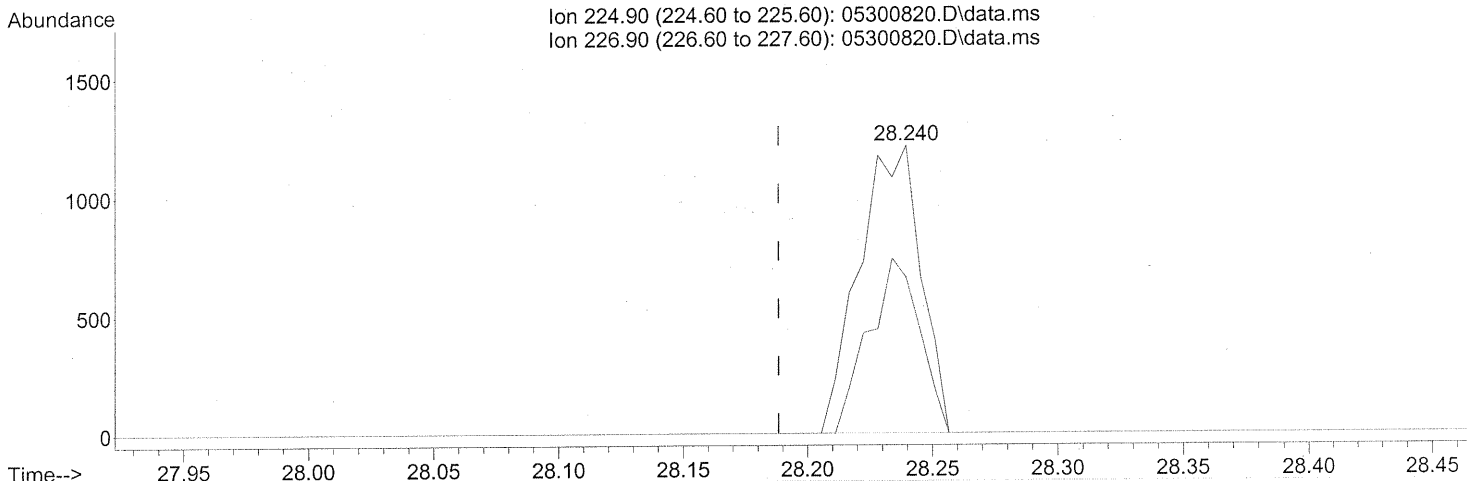
Ion	Exp%	Act%
224.90	100	100
226.90	62.80	50.51
0.00	0.00	0.00
0.00	0.00	0.00

**BEFORE SUBTRACTION**



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 05 11:32:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

28.240min (+0.051) 0.09ng

response 2073

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	50.51
0.00	0.00	0.00
0.00	0.00	0.00

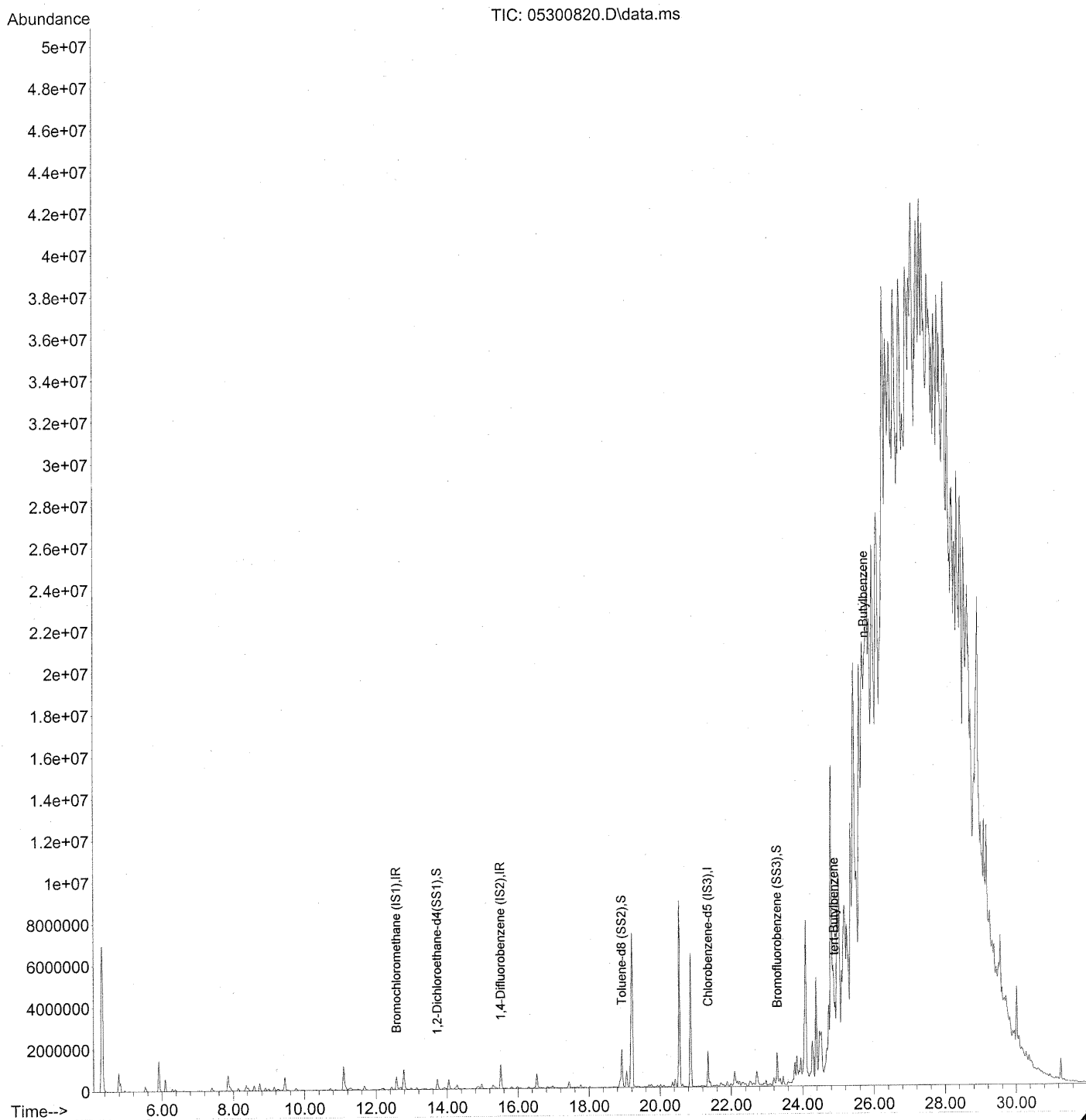
AFTER SUBTRACTION

6/05/08

6/19/08

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300820.D  
Acq On : 31 May 2008 12:37 am  
Operator : WA  
Sample : P0801548-005 (1000ml)  
Misc : ENSR SG67B-05 (-3.8,3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:22:44 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:22:44 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

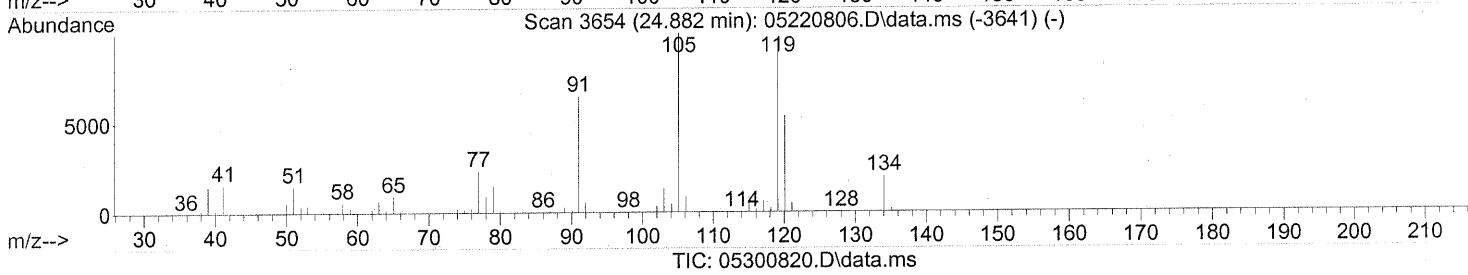
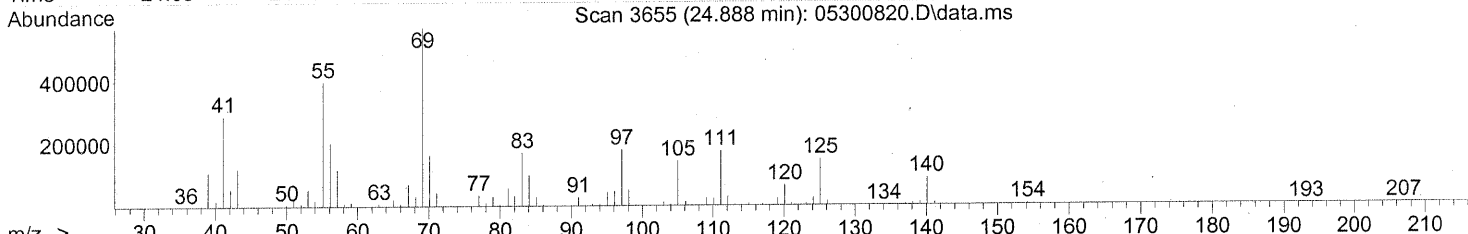
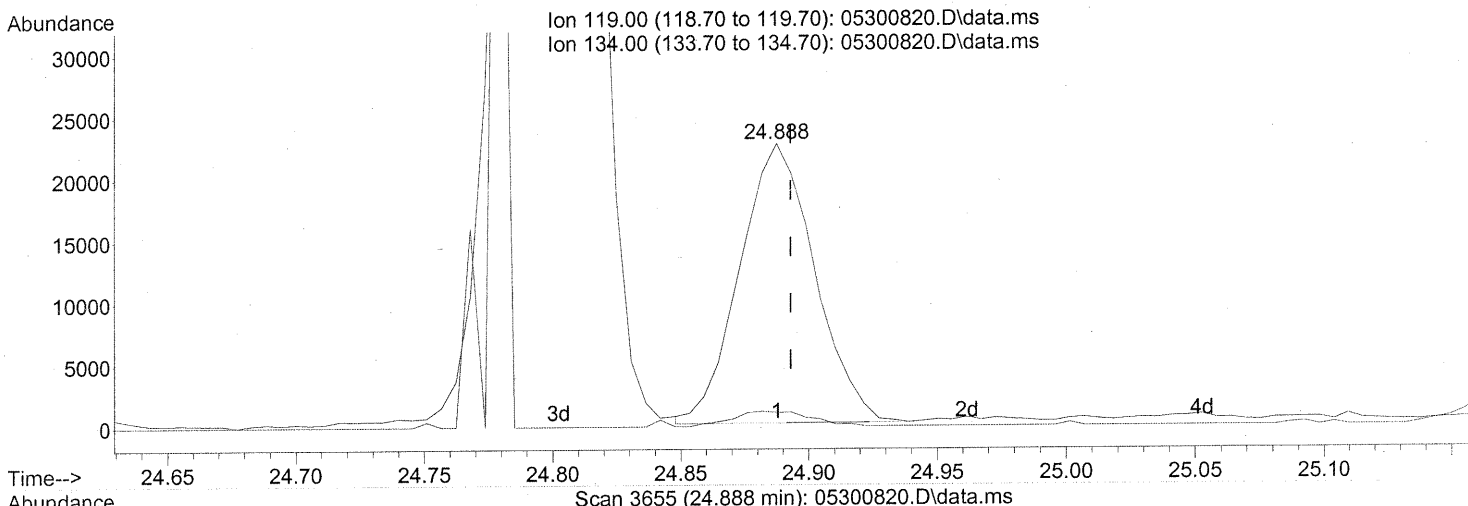
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	319747	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1364863	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	649247	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	511152	23.071	ng	-0.02
Spiked Amount	25.000		Recovery	=	92.28%	✓
5) Toluene-d8 (SS2)	18.93	98	1451074	24.886	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.56%	✓
6) Bromofluorobenzene (SS3)	23.29	174	611782	25.801	ng	0.00
Spiked Amount	25.000		Recovery	=	103.20%	✓
Target Compounds						
7) tert-Butylbenzene	24.89	119	45736	0.600	ng	# 65
8) n-Butylbenzene	25.74	91	1327352	<del>15.743</del>	ng	# 33

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

*Fac/08/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:22:44 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(7) tert-Butylbenzene

24.888min (-0.006) 0.60ng

response 45736

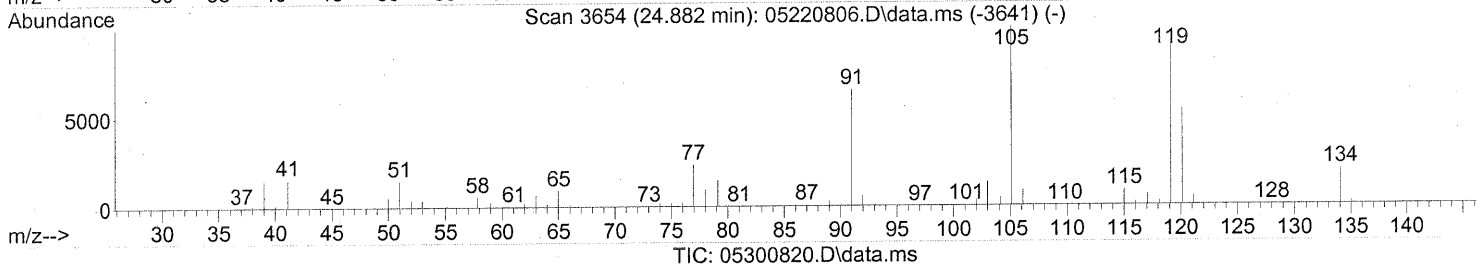
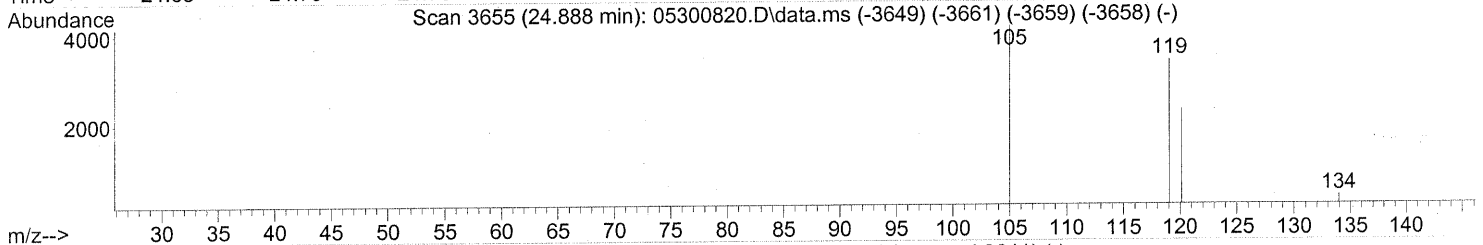
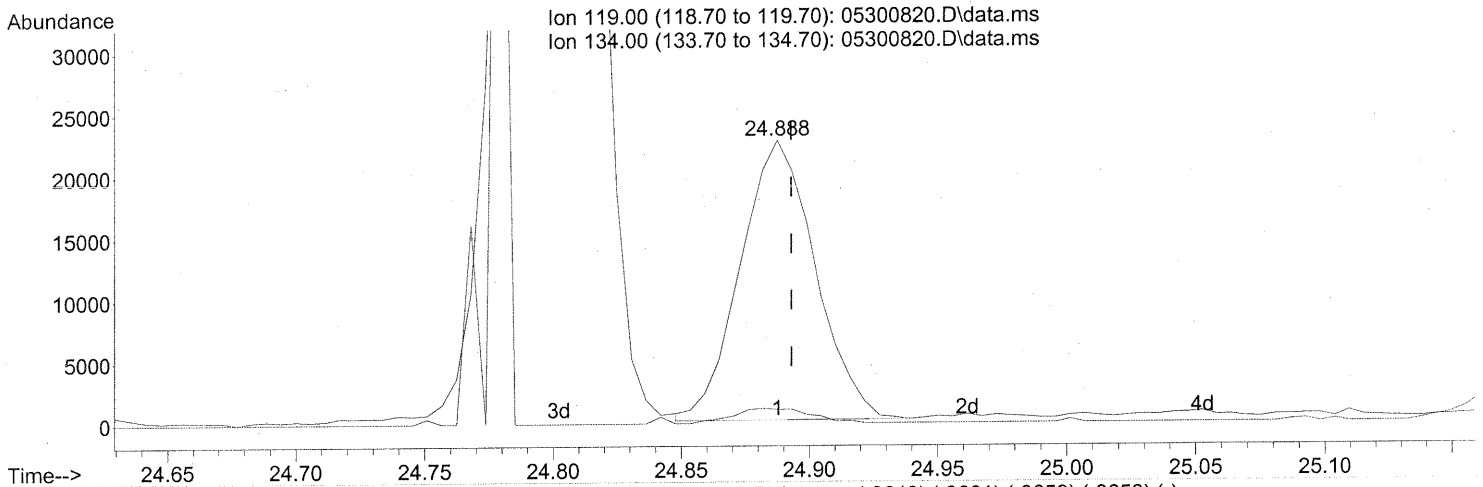
Ion	Exp%	Act%
119.00	100	100
134.00	22.10	5.45#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Total)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300820.D  
 Acq On : 31 May 2008 12:37 am  
 Operator : WA  
 Sample : P0801548-005 (1000ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:22:44 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



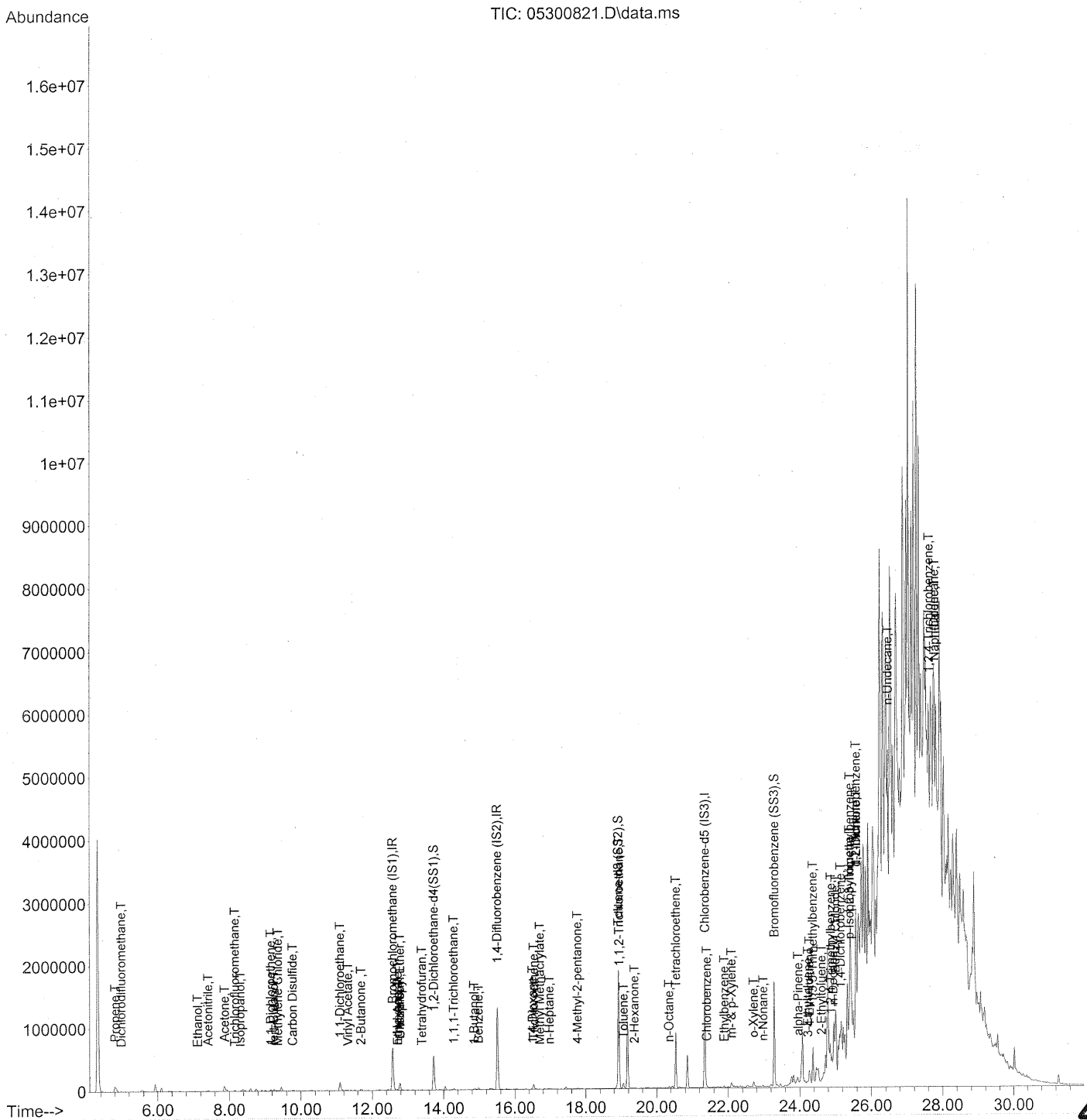
(7) tert-Butylbenzene  
 24.888min (-0.006) 0.60ng  
 response 45736

Ion	Exp%	Act%
119.00	100	100
134.00	22.10	5.45#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 6/8/08  
 6/9/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300821.D  
 Acq On : 31 May 2008 1:18  
 Operator : WA  
 Sample : P0801548-005 Dil (100ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:09:08 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300821.D  
 Acq On : 31 May 2008 1:18  
 Operator : WA  
 Sample : P0801548-005 Dil (100ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:09:08 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	374640	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1577147	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	709766	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	562783	21.680	ng	0.00
Spiked Amount	25.000		Recovery	=	86.72%	✓
57) Toluene-d8 (SS2)	18.92	98	1609454	25.249	ng	0.00
Spiked Amount	25.000		Recovery	=	101.00%	✓
73) Bromofluorobenzene (SS3)	23.29	174	664762	25.645	ng	0.00
Spiked Amount	25.000		Recovery	=	102.60%	✓

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	53632	1.813	ng	# 79
3) Dichlorodifluoromethane	4.98	85	6763	0.124	ng	97
4) Chloromethane	5.30	50	1240	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.75	62	1329	N.D.		
7) 1,3-Butadiene	6.02	54	788	N.D.		
8) Bromomethane	6.51	94	186	N.D.		
9) Chloroethane	6.84	64	334	N.D.		
10) Ethanol	7.11	45	2698	0.137	ng	93
11) Acetonitrile	7.41	41	8815	0.155	ng	# 40
12) Acrolein	7.65	56	373	N.D.		
13) Acetone	7.87	58	51176	2.538	ng	# 75
14) Trichlorofluoromethane	8.15	101	15079	0.322	ng	96
15) Isopropanol	8.32	45	5517	0.086	ng	81
16) Acrylonitrile	8.67	53	60	N.D.		
17) 1,1-Dichloroethene	9.16	96	11169	0.543	ng	# 68
18) tert-Butanol	9.24	59	40531	0.741	ng	89
19) Methylene Chloride	9.36	84	1155	0.051	ng	# 81
20) Allyl Chloride	9.54	41	995	N.D.		
21) Trichlorotrifluoroethane	9.81	151	684	N.D.		
22) Carbon Disulfide	9.77	76	27229	0.318	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.10	63	172067	4.400	ng	96
25) Methyl tert-Butyl Ether	11.22	73	62	N.D.		
26) Vinyl Acetate	11.31	86	2891	0.776	ng	# 5
27) 2-Butanone	11.68	72	8612	0.585	ng	# 86
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	12312	0.683	ng	# 1
30) Ethyl Acetate	12.71	61	643	0.081	ng	# 39
31) n-Hexane	12.71	57	6322	0.158	ng	88

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300821.D  
 Acq On : 31 May 2008 1:18  
 Operator : WA  
 Sample : P0801548-005 Dil (100ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:09:08 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	121983	3.571	ng	100
34) Tetrahydrofuran	13.39	72	1595	0.113	ng	96
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.77	62	51	N.D.		
38) 1,1,1-Trichloroethane	14.28	97	19931	0.555	ng	94
39) Isopropyl Acetate	14.83	61	128	N.D.		
40) 1-Butanol	14.85	56	12969	0.598	ng	88
41) Benzene	14.98	78	33769	0.409	ng	99
42) Carbon Tetrachloride	15.20	117	608	N.D.		
43) Cyclohexane	15.39	84	1094	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	16.44	83	183	N.D.		
47) Trichloroethene	16.53	130	33664	1.329	ng	98
48) 1,4-Dioxane	16.50	88	3807	0.244	ng	88
49) Isooctane	16.65	57	3504	N.D.		
50) Methyl Methacrylate	16.71	100	576	0.070	ng	# 1
51) n-Heptane	16.97	71	2435	0.111	ng	# 84
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	5440	0.248	ng	67
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	141004	6.910	ng	# 9
58) Toluene	19.06	91	69933	0.807	ng	99
59) 2-Hexanone	19.37	43	4262	0.071	ng	# 70
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	19.78	107	51	N.D.		
62) Butyl Acetate	20.19	43	1105	N.D.		
63) n-Octane	20.35	57	5489	0.286	ng	96
64) Tetrachloroethene	20.54	106	352511	13.749	ng	100
65) Chlorobenzene	21.40	112	7284	0.125	ng	100
66) Ethylbenzene	21.89	91	23924	0.241	ng	93
67) m- & p-Xylene	22.09	91	74750	1.125	ng	91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.57	104	1464	N.D.		
70) o-Xylene	22.71	91	33559	0.468	ng	94
71) n-Nonane	22.98	43	20738	0.407	ng	# 52
72) 1,1,2,2-Tetrachloroethane	22.70	83	445	N.D.		
74) Cumene	23.47	105	3719	N.D.		
75) alpha-Pinene	23.96	93	17758	0.360	ng	93
76) n-Propylbenzene	24.10	91	3695	N.D.		
77) 3-Ethyltoluene	24.23	105	11103	0.109	ng	99
78) 4-Ethyltoluene	24.27	105	4740	0.050	ng	85
79) 1,3,5-Trimethylbenzene	24.37	105	16615	0.194	ng	98



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300821.D  
 Acq On : 31 May 2008 1:18  
 Operator : WA  
 Sample : P0801548-005 Dil (100ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:09:08 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	1411	N.D.		
81) 2-Ethyltoluene	24.61	105	14081	0.137	ng	95
82) 1,2,4-Trimethylbenzene	24.88	105	31700	0.364	ng	91
83) n-Decane	24.94	57	207004	4.315	ng	# 79
84) Benzyl Chloride	25.01	91	12356	0.211	ng	# 25
85) 1,3-Dichlorobenzene	25.07	146	723	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	21903	0.414	ng	98
87) sec-Butylbenzene	25.21	105	4539	N.D.		
88) p-Isopropyltoluene	25.40	119	30378	0.331	ng	# 1
89) 1,2,3-Trimethylbenzene	25.41	105	184674	2.165	ng	88
90) 1,2-Dichlorobenzene	25.58	146	3217	0.062	ng	95
91) d-Limonene	25.58	68	114775	3.304	ng	# 55
92) 1,2-Dibromo-3-Chloropr...	25.64	157	418	N.D.		
93) n-Undecane	26.47	57	418589	8.337	ng	# 19
94) 1,2,4-Trichlorobenzene	27.62	180	17994	0.475	ng	# 12
95) Naphthalene	27.78	128	32779	0.285	ng	# 26
96) n-Dodecane	27.78	57	510765	10.229	ng	# 65
97) Hexachloro-1,3-butadiene	28.19	225	75	N.D.		

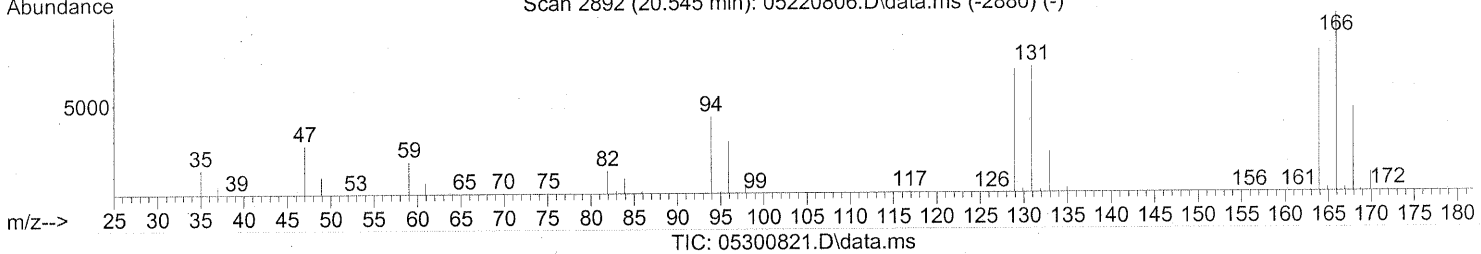
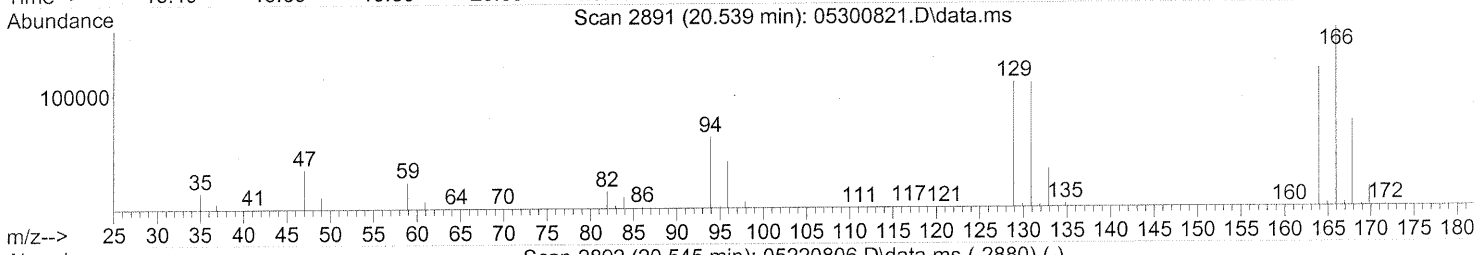
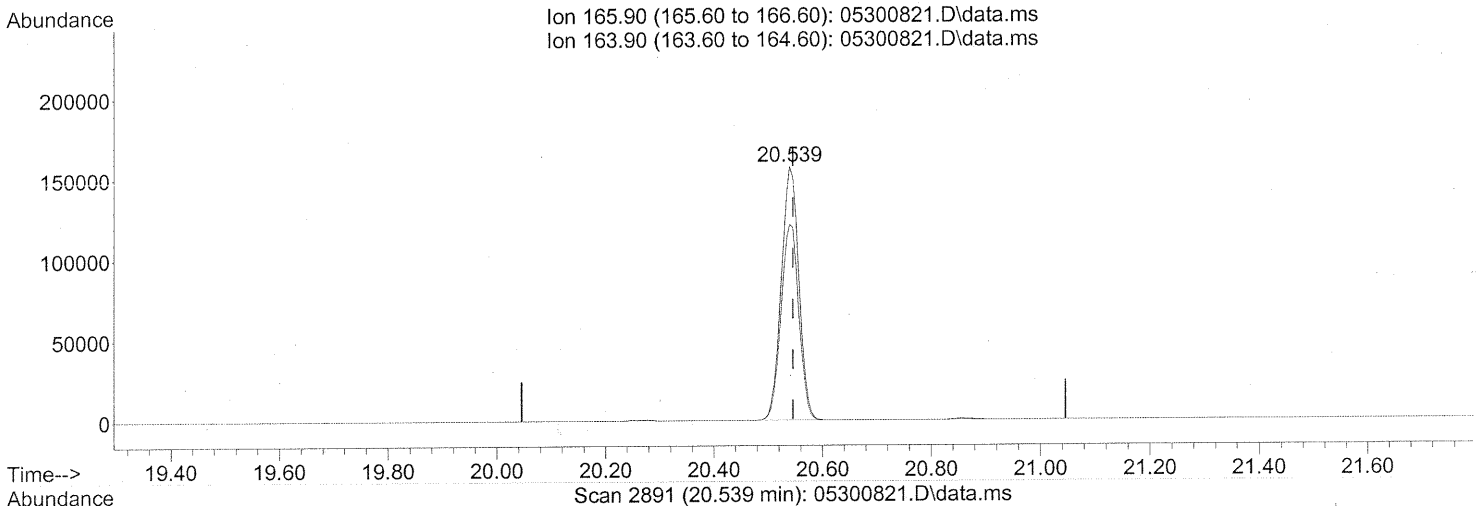
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*206/04/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300821.D  
 Acq On : 31 May 2008 1:18 am  
 Operator : WA  
 Sample : P0801548-005 Dil (100ml)  
 Misc : ENSR SG67B-05 (-3.8,3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 31 05:09:08 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.539min (-0.006) 13.75ng

response 352511

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.40
0.00	0.00	0.00
0.00	0.00	0.00



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-006

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo/Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00105

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08 & 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.77	0.078	ND	0.18	0.019	
107-06-2	<b>1,2-Dichloroethane</b>	<b>7.3</b>	0.15	0.077	<b>1.8</b>	0.038	0.019	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.41</b>	0.15	0.077	<b>0.075</b>	0.028	0.014	
71-43-2	<b>Benzene</b>	<b>160</b>	0.15	0.077	<b>51</b>	0.048	0.024	
56-23-5	<b>Carbon Tetrachloride</b>	<b>79</b>	0.15	0.077	<b>13</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.77	0.077	ND	0.18	0.018	
78-87-5	<b>1,2-Dichloropropane</b>	<b>2.6</b>	0.15	0.077	<b>0.56</b>	0.033	0.017	
75-27-4	<b>Bromodichloromethane</b>	<b>7.3</b>	0.15	0.077	<b>1.1</b>	0.023	0.011	
79-01-6	<b>Trichloroethene</b>	<b>35</b>	0.15	0.077	<b>6.5</b>	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.093	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.11	ND	0.19	0.028	
142-82-5	<b>n-Heptane</b>	<b>19</b>	0.77	0.098	<b>4.7</b>	0.19	0.024	
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>3.1</b>	0.77	0.086	<b>0.76</b>	0.19	0.021	
10061-02-6	trans-1,3-Dichloropropene	ND	0.77	0.096	ND	0.17	0.021	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.13</b>	0.15	0.077	<b>0.023</b>	0.028	0.014	<b>J</b>
108-88-3	<b>Toluene</b>	<b>50</b>	0.77	0.077	<b>13</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>2.0</b>	0.77	0.12	<b>0.49</b>	0.19	0.028	<b>M</b>
124-48-1	<b>Dibromochloromethane</b>	<b>4.1</b>	0.15	0.10	<b>0.48</b>	0.018	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	<b>n-Octane</b>	<b>17</b>	0.77	0.077	<b>3.6</b>	0.16	0.016	
127-18-4	<b>Tetrachloroethene</b>	<b>490</b>	0.15	0.077	<b>72</b>	0.023	0.011	
108-90-7	<b>Chlorobenzene</b>	<b>32</b>	0.15	0.078	<b>7.0</b>	0.033	0.017	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

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

Verified By: CA      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-006

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo/Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00105

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08 & 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.8	0.77	0.095	0.87	0.18	0.022	
179601-23-1	m,p-Xylenes	27	0.77	0.20	6.2	0.18	0.046	
75-25-2	Bromoform	4.6	0.77	0.12	0.44	0.074	0.011	
100-42-5	Styrene	0.19	0.77	0.12	0.043	0.18	0.027	J
95-47-6	o-Xylene	9.7	0.77	0.096	2.2	0.18	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.098	ND	0.022	0.014	
98-82-8	Cumene	1.2	0.77	0.086	0.24	0.16	0.017	
103-65-1	n-Propylbenzene	0.79	0.77	0.080	0.16	0.16	0.016	
622-96-8	4-Ethyltoluene	0.83	0.77	0.087	0.17	0.16	0.018	
108-67-8	1,3,5-Trimethylbenzene	5.3	0.77	0.092	1.1	0.16	0.019	
98-83-9	alpha-Methylstyrene	0.16	0.77	0.11	0.033	0.16	0.023	J
95-63-6	1,2,4-Trimethylbenzene	4.0	0.77	0.11	0.80	0.16	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.030	0.025	
541-73-1	1,3-Dichlorobenzene	0.43	0.15	0.095	0.071	0.025	0.016	
106-46-7	1,4-Dichlorobenzene	5.0	0.15	0.086	0.84	0.025	0.014	
135-98-8	sec-Butylbenzene	0.23	0.77	0.089	0.043	0.14	0.016	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.1	0.77	0.099	0.20	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	0.94	0.15	0.10	0.16	0.025	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.77	0.12	ND	0.079	0.012	
120-82-1	1,2,4-Trichlorobenzene	0.37	0.15	0.12	0.049	0.021	0.016	
91-20-3	Naphthalene	1.1	0.31	0.11	0.21	0.058	0.022	
87-68-3	Hexachlorobutadiene	2.9	0.15	0.14	0.28	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	n-Butylbenzene	0.59	0.31	0.077	0.11	0.056	0.014	

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

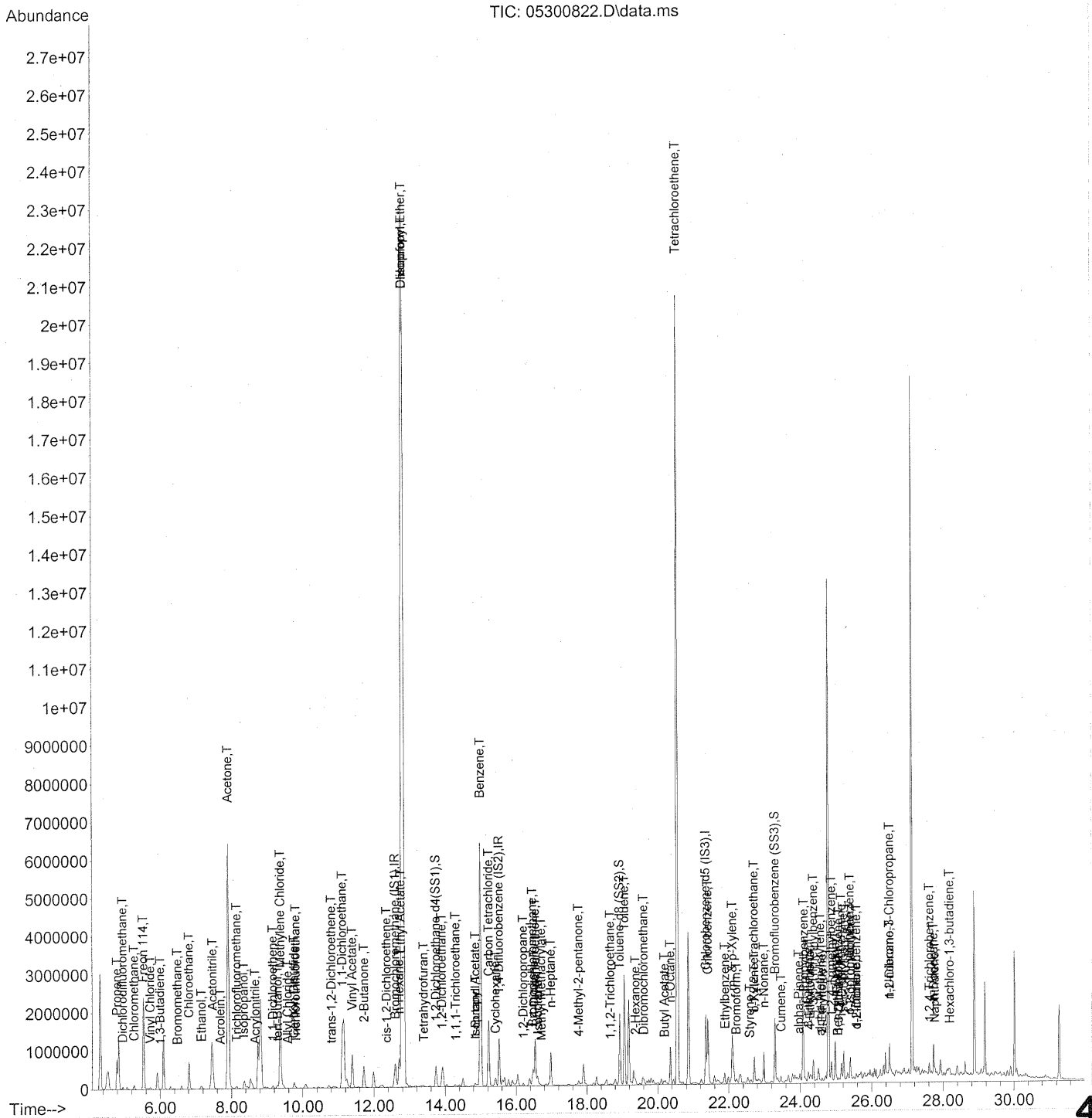
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



422

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.60	130	376350	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.52	114	1497616	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	693630	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.74	65	542869	20.818	ng	0.01
Spiked Amount	25.000		Recovery	=	83.28%	✓
57) Toluene-d8 (SS2)	18.93	98	1576613	25.309	ng	0.00
Spiked Amount	25.000		Recovery	=	101.24%	✓
73) Bromofluorobenzene (SS3)	23.29	174	654283	25.828	ng	0.00
Spiked Amount	25.000		Recovery	=	103.32%	✓

## Target Compounds

						Qvalue
2) Propene	4.79	42	396138	13.327	ng	98
3) Dichlorodifluoromethane	4.95	85	71166	1.299	ng	99
4) Chloromethane	5.27	50	149778	4.222	ng	97
5) Freon 114	5.52	135	1420	0.053	ng	67
6) Vinyl Chloride	5.72	62	44496	1.254	ng	94
7) 1,3-Butadiene	6.00	54	2062	0.078	ng	# 49
8) Bromomethane	6.48	94	3053	0.154	ng	98
9) Chloroethane	6.81	64	828825	49.154	ng	95
10) Ethanol	7.15	45	147034	7.431	ng	95
11) Acetonitrile	7.47	41	1243094	21.724	ng	98
12) Acrolein	7.69	56	1743	0.123	ng	# 15
13) Acetone	7.91	58	3071397	<del>151.602</del>	ng	<del>58</del> See diln
14) Trichlorofluoromethane	8.14	101	65303	1.389	ng	100
15) Isopropanol	8.35	45	243866	3.774	ng	94
16) Acrylonitrile	8.67	53	2175	0.071	ng	# 37
17) 1,1-Dichloroethene	9.16	96	43155	2.087	ng	# 71
18) tert-Butanol	9.29	59	131421	2.391	ng	96
19) Methylene Chloride	9.37	84	1336333	59.020	ng	# 74
20) Allyl Chloride	9.57	41	6060	0.201	ng	75
21) Trichlorotrifluoroethane	9.80	151	6984	0.327	ng	87
22) Carbon Disulfide	9.76	76	313529	3.649	ng	99
23) trans-1,2-Dichloroethene	10.80	61	2738	0.082	ng	95
24) 1,1-Dichloroethane	11.11	63	2168864	55.204	ng	95
25) Methyl tert-Butyl Ether	11.23	73	2865	N.D.	✓	
26) Vinyl Acetate	11.39	86	34474	<del>9.207</del>	ng	# 1
27) 2-Butanone	11.72	72	245540	16.605	ng	# 80
28) cis-1,2-Dichloroethene	12.36	61	4763	0.149	ng	78
29) Diisopropyl Ether	12.83	87	5519662	<del>304.636</del>	ng	# 1
30) Ethyl Acetate	12.75	61	15222	1.907	ng	# 22
31) n-Hexane	12.71	57	534935	13.281	ng	90

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.83	83	38764213	<del>1129.542</del> ng	See data	87
34) Tetrahydrofuran	13.40	72	7548	0.534	ng #	1
35) Ethyl tert-Butyl Ether	13.51	87	320	N.D. ✓		
36) 1,2-Dichloroethane	13.90	62	157905	4.762	ng	98
38) 1,1,1-Trichloroethane	14.30	97	9179	0.269	ng	93
39) Isopropyl Acetate	14.85	61	1107	0.087	ng #	1
40) 1-Butanol	14.85	56	67525	3.280	ng	91
41) Benzene	15.00	78	8295031	105.783	ng	99
42) Carbon Tetrachloride	15.22	117	1566193	51.862	ng	99
43) Cyclohexane	15.42	84	118174	3.874	ng #	77
44) tert-Amyl Methyl Ether	15.88	73	121	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	35320	1.683	ng	99
46) Bromodichloromethane	16.46	83	126571	4.775	ng	80
47) Trichloroethene	16.54	130	549335	22.837	ng	99
48) 1,4-Dioxane	16.50	88	2546	<del>0.172</del> ng	# NR	4
49) Isooctane	16.62	57	47758	0.531	ng #	1
50) Methyl Methacrylate	16.72	100	3731	<del>0.476</del> ng	# NR	1
51) n-Heptane	16.98	71	262118	12.580	ng #	77
52) cis-1,3-Dichloropropene	17.81	75	413	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	42523	2.042	ng	81
54) trans-1,3-Dichloropropene	18.51	75	646	N.D. ✓		
55) 1,1,2-Trichloroethane	18.67	97	1597	0.082	ng #	1
58) Toluene	19.07	91	2740102	32.359	ng	99
59) 2-Hexanone	19.37	43	76988	1.319	ng #	55
60) Dibromochloromethane	19.60	129	60785	2.658	ng #	99
61) 1,2-Dibromoethane	20.10	107	500	N.D. ✓		
62) Butyl Acetate	20.19	43	15157	0.256	ng #	43
63) n-Octane	20.35	57	206916	11.049	ng	88
64) Tetrachloroethene	20.56	166	9153630	<del>365.321</del> ng	See data	97
65) Chlorobenzene	21.41	112	1195880	21.066	ng	99
66) Ethylbenzene	21.89	91	240737	2.479	ng	95
67) m- & p-Xylene	22.10	91	1133550	17.453	ng	92
68) Bromoform	22.21	173	51078	3.001	ng	98
69) Styrene	22.58	104	7009	0.121	ng #	52
70) o-Xylene	22.71	91	443324	6.323	ng	95
71) n-Nonane	22.98	43	377914	7.592	ng	85
72) 1,1,2,2-Tetrachloroethane	22.71	83	1472	<del>0.050</del> ng	#	17
74) Cumene	23.46	105	71292	0.764	ng	100
75) alpha-Pinene	23.96	93	33812	0.700	ng	92
76) n-Propylbenzene	24.10	91	61362	0.517	ng #	84
77) 3-Ethyltoluene	24.23	105	142628	1.435	ng	100
78) 4-Ethyltoluene	24.28	105	50187	0.542	ng	97
79) 1,3,5-Trimethylbenzene	24.37	105	291643	3.485	ng	98



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

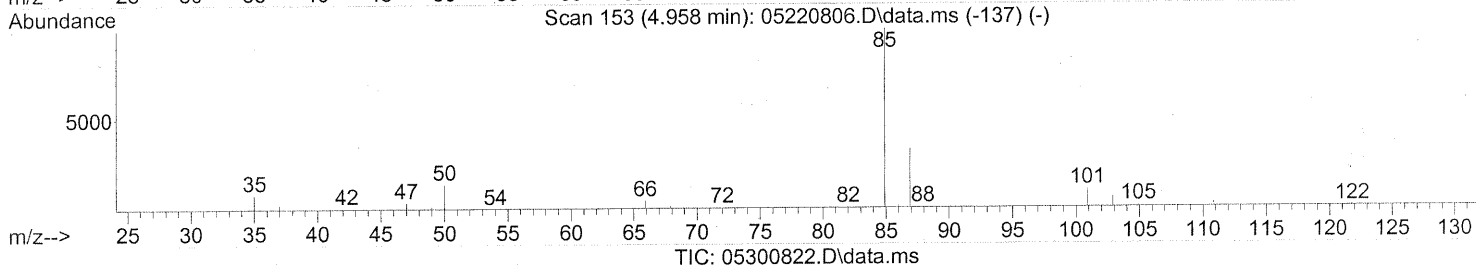
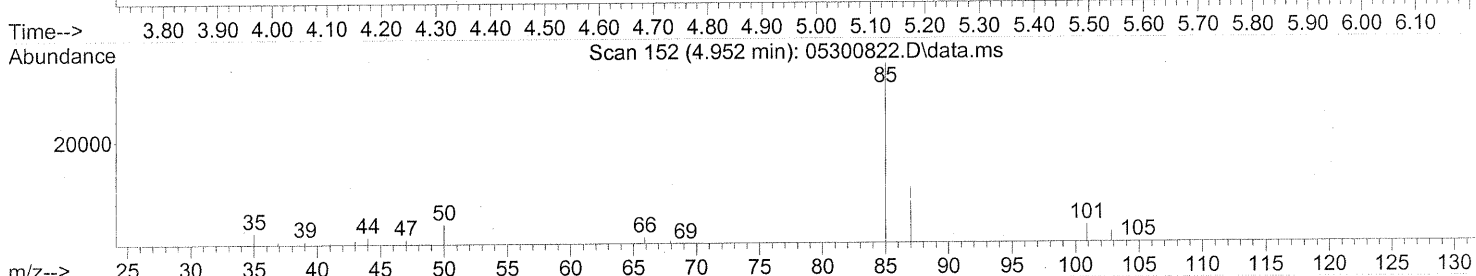
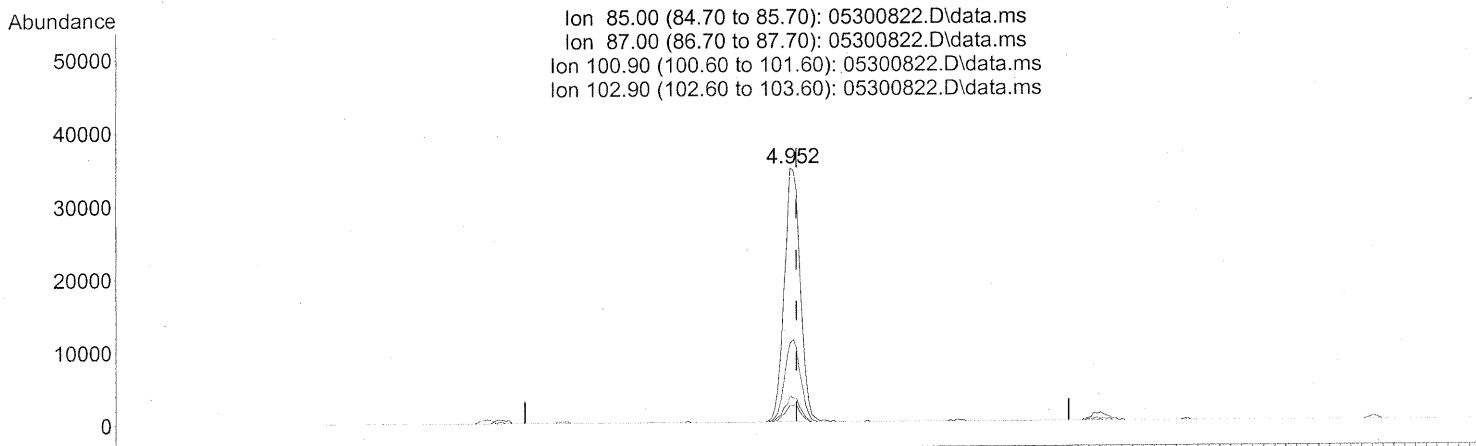
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	4691	0.104	ng	94
81) 2-Ethyltoluene	24.61	105	60867	0.604	ng	97
82) 1,2,4-Trimethylbenzene	24.88	105	220060	2.583	ng	91
83) n-Decane	24.98	57	367944	7.848	ng	82
84) Benzyl Chloride	25.05	91	3459	<del>0.060</del>	ng #	53
85) 1,3-Dichlorobenzene	25.08	146	14911	0.280	ng	95
86) 1,4-Dichlorobenzene	25.16	146	169702	3.286	ng	99
87) sec-Butylbenzene	25.21	105	16624	0.153	ng	94
88) p-Isopropyltoluene	25.40	119	65036	0.725	ng	87
89) 1,2,3-Trimethylbenzene	25.40	105	95328	1.143	ng	94
90) 1,2-Dichlorobenzene	25.58	146	30905	0.612	ng	98
91) d-Limonene	25.58	68	19088	0.562	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.50	157	1742	<del>0.111</del>	ng MR	1
93) n-Undecane	26.50	57	318365	6.488	ng	76
94) 1,2,4-Trichlorobenzene	27.63	180	8892	0.240	ng	91
95) Naphthalene	27.77	128	79663	0.709	ng	93
96) n-Dodecane	27.73	57	249518	5.113	ng	77
97) Hexachloro-1,3-butadiene	28.19	225	47407	1.924	ng	100

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.952min (-0.011) 1.30ng

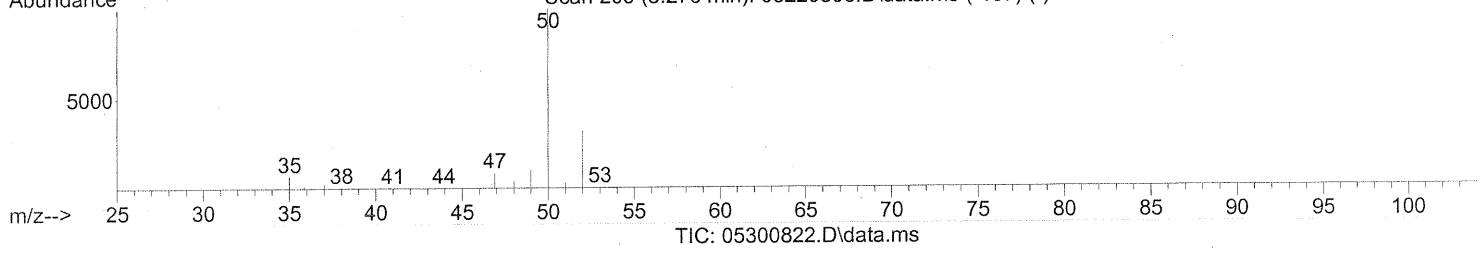
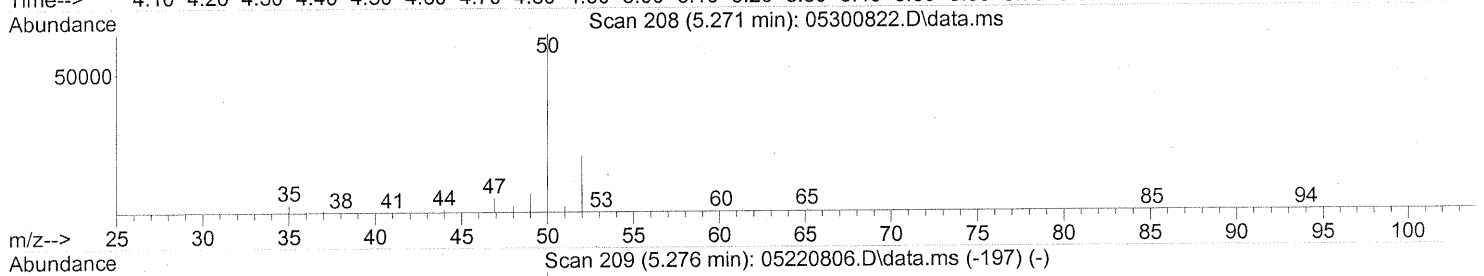
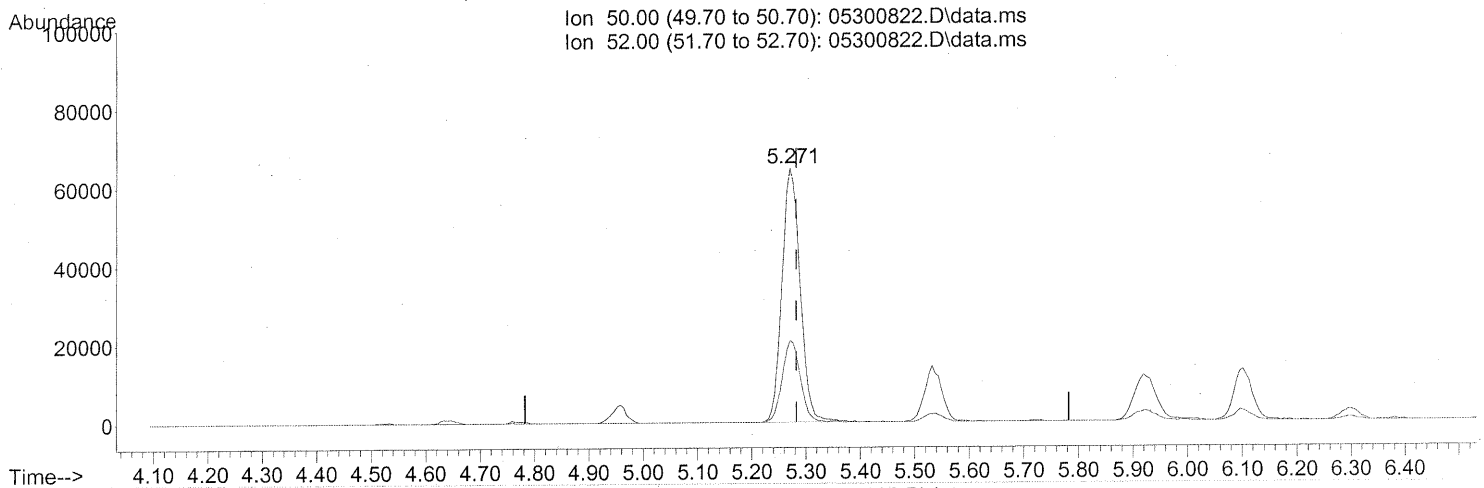
response 71166

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.40
100.90	9.30	9.82
102.90	6.00	6.47

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(4) Chloromethane (T)

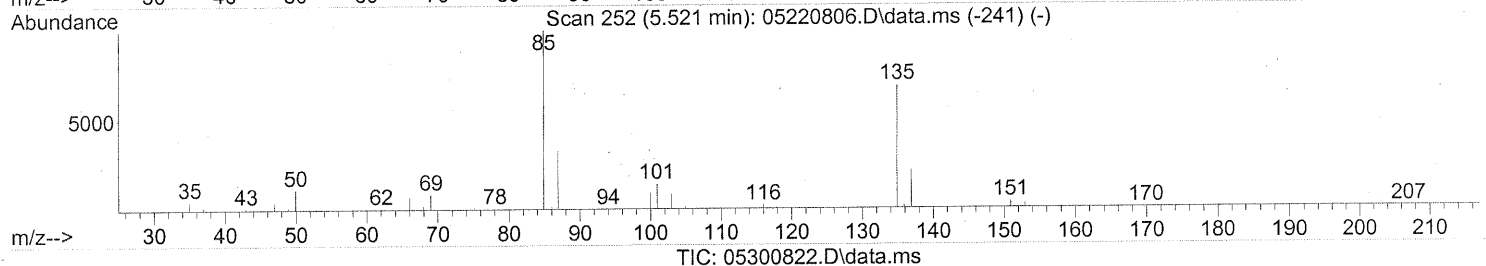
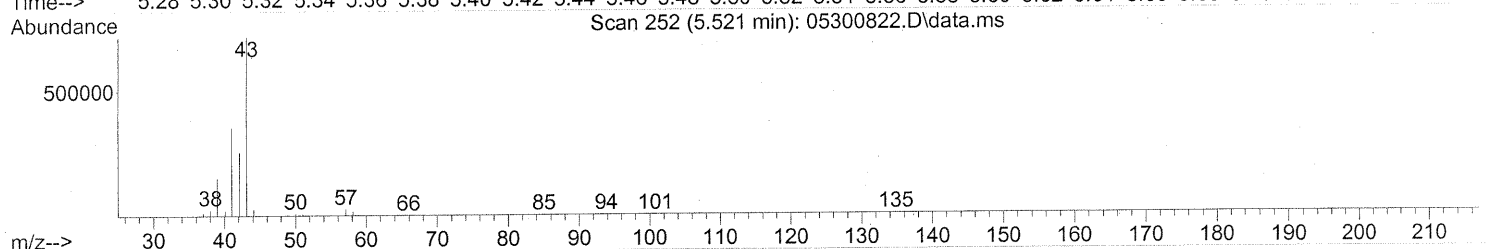
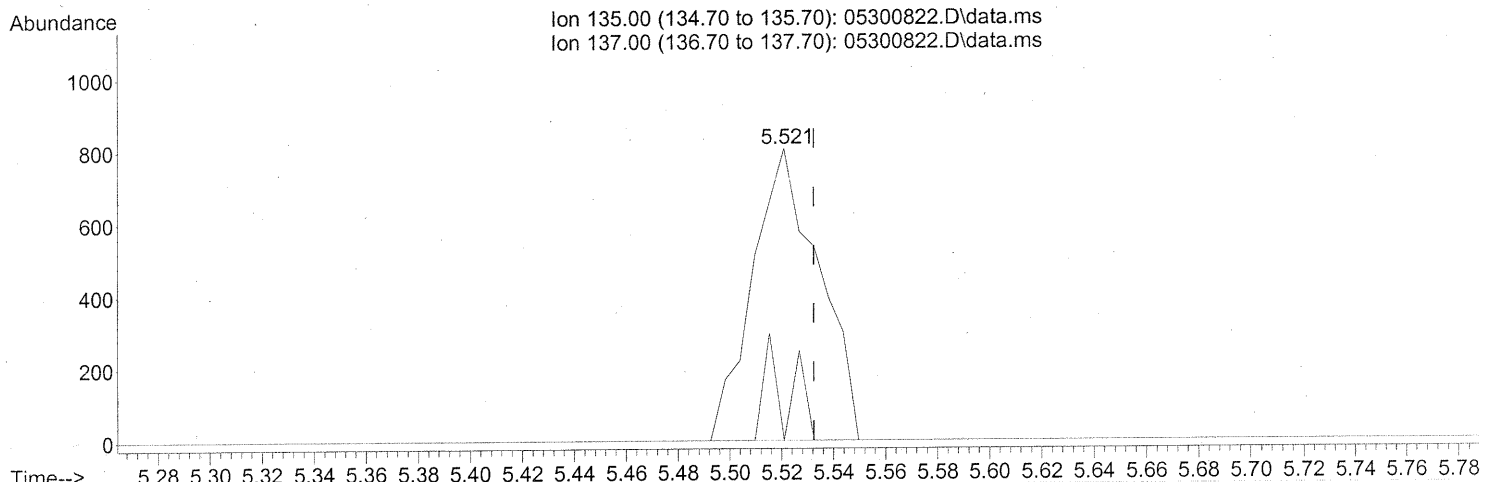
5.271min (-0.011) 4.22ng  
 response 149778

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	31.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)

5.521min (-0.011) 0.05ng

response 1420

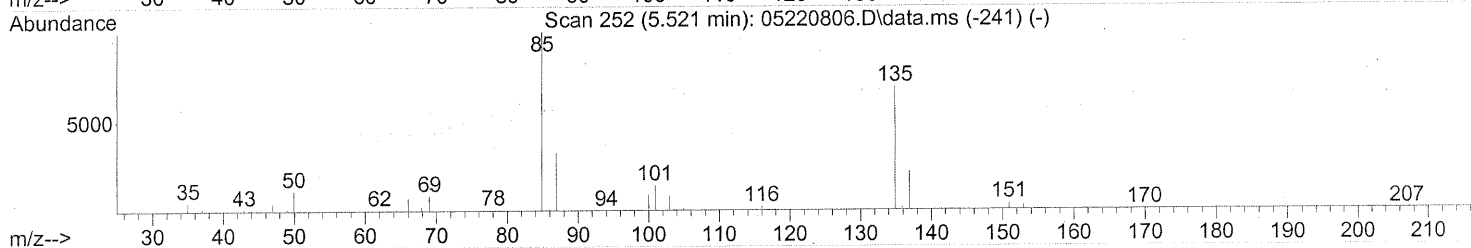
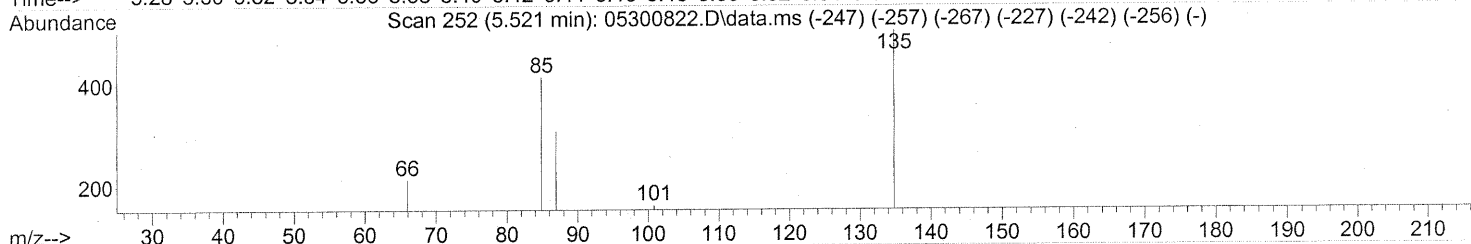
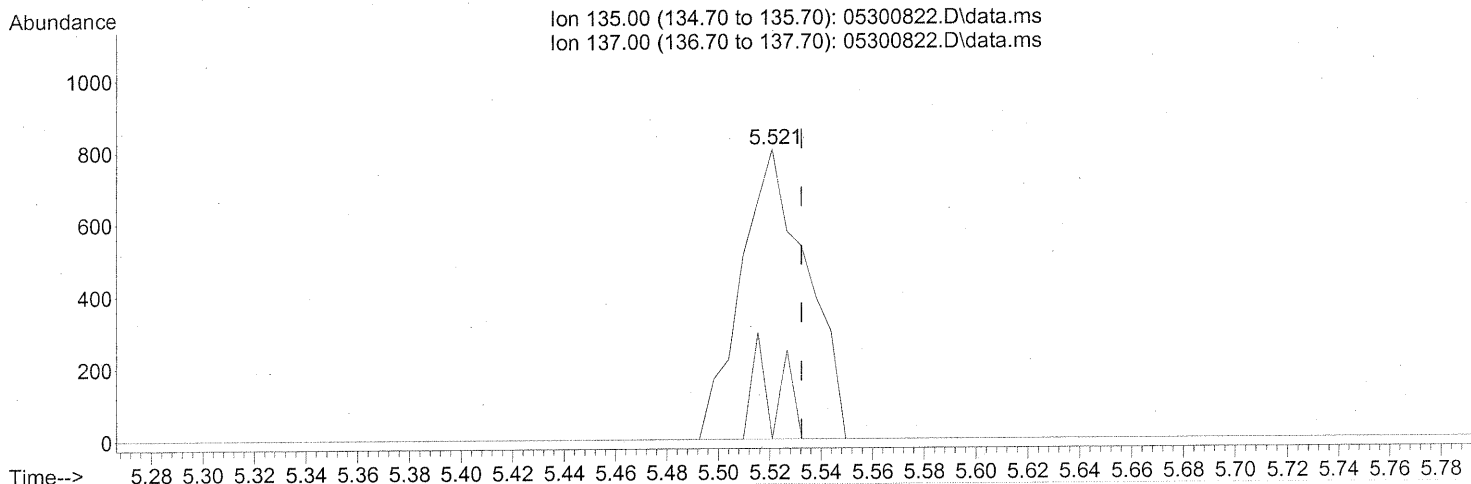
Ion	Exp%	Act%
135.00	100	100
137.00	31.50	13.03
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.521min (-0.011) 0.05ng  
 response 1420

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	13.03
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

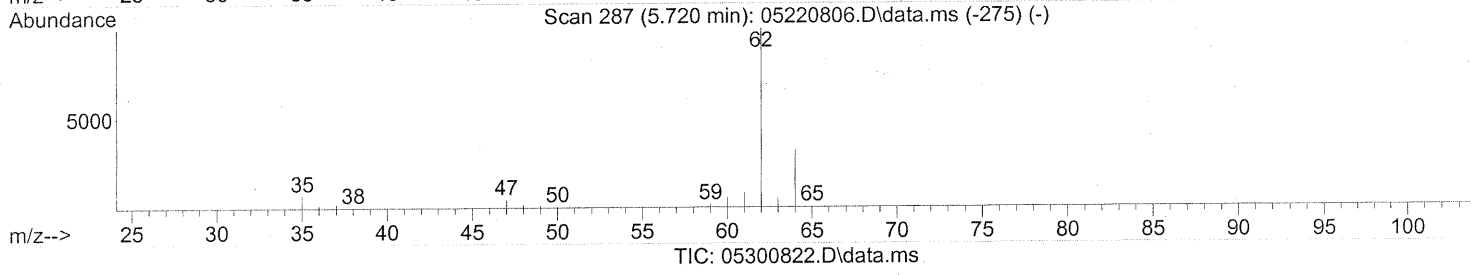
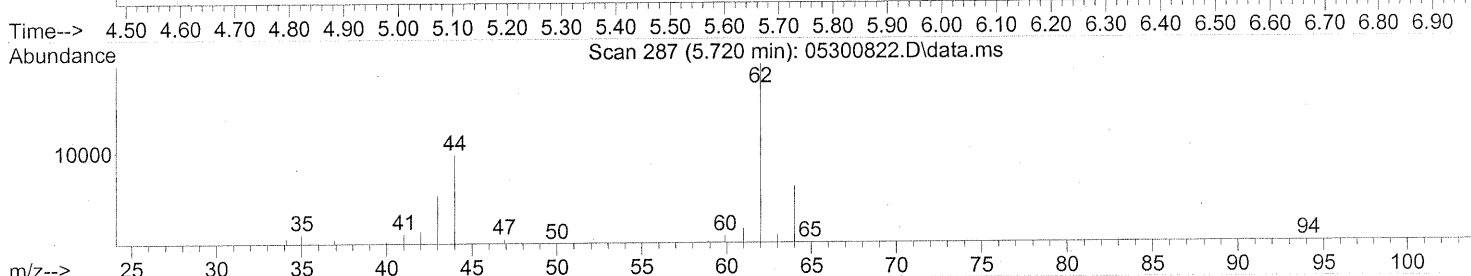
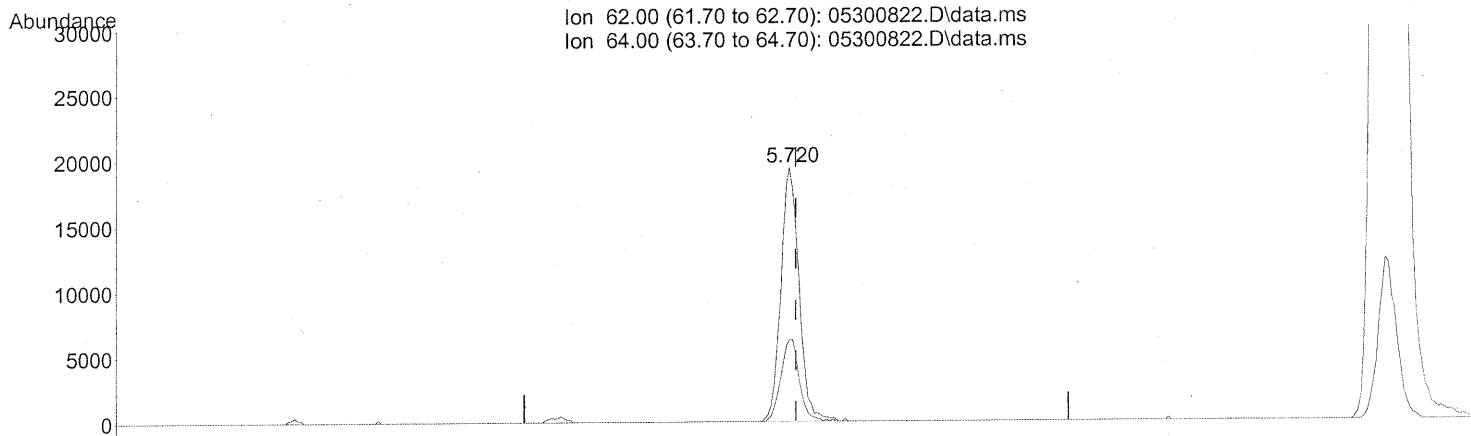
6/6/08

Act 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



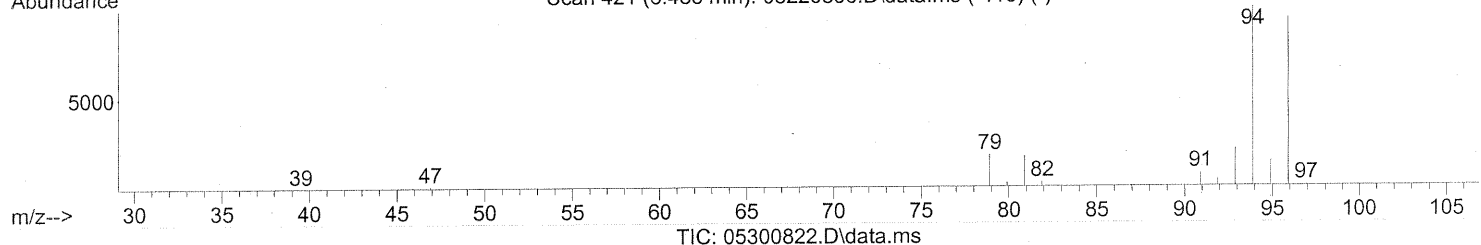
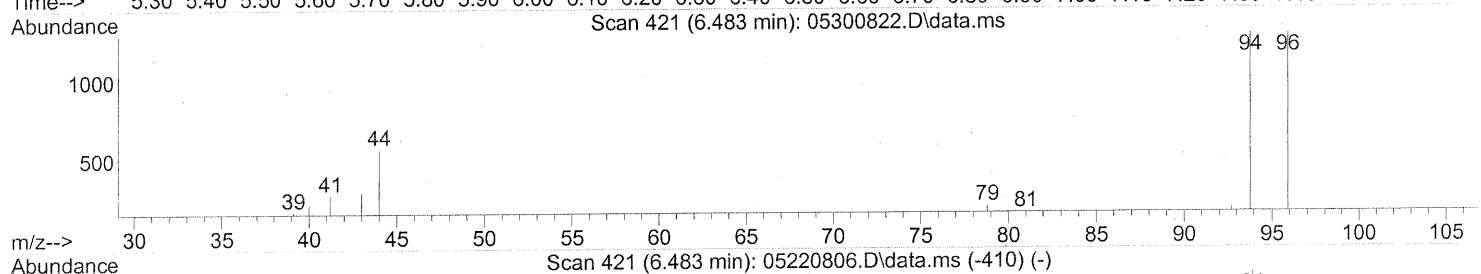
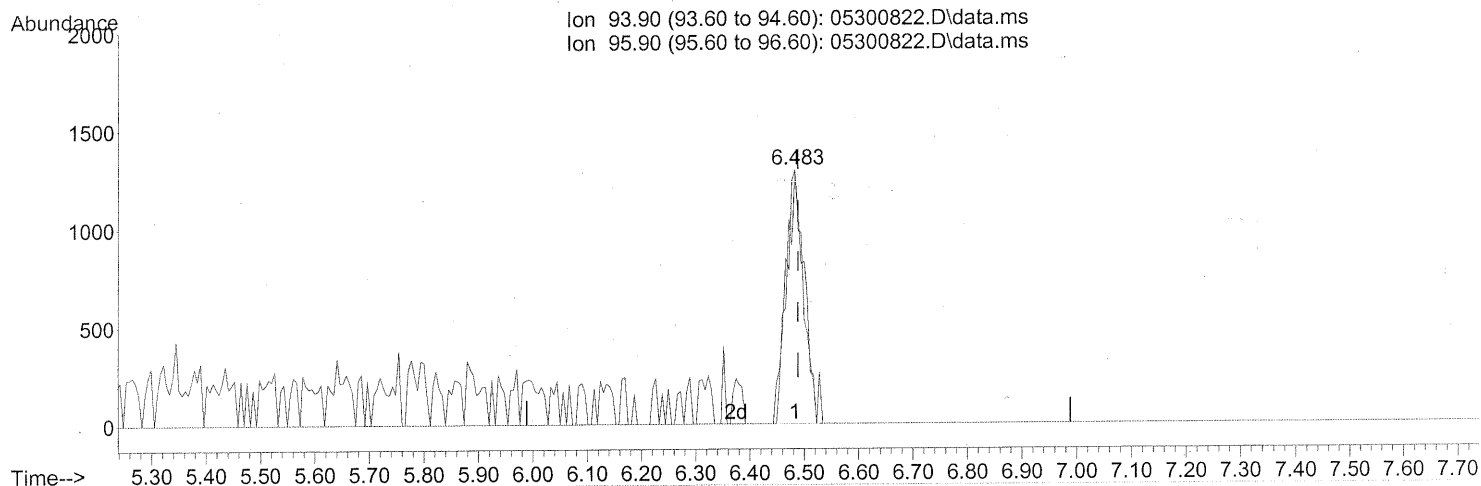
(6) Vinyl Chloride (T)  
 5.720min (-0.011) 1.25ng  
 response 44496

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	32.73
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



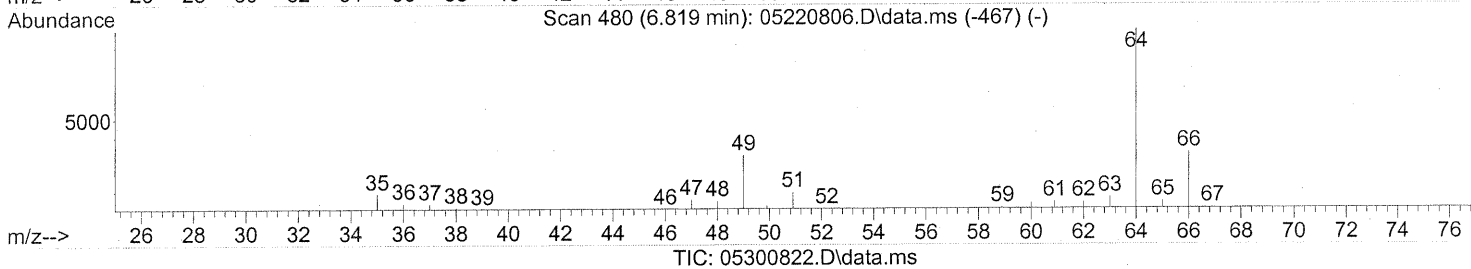
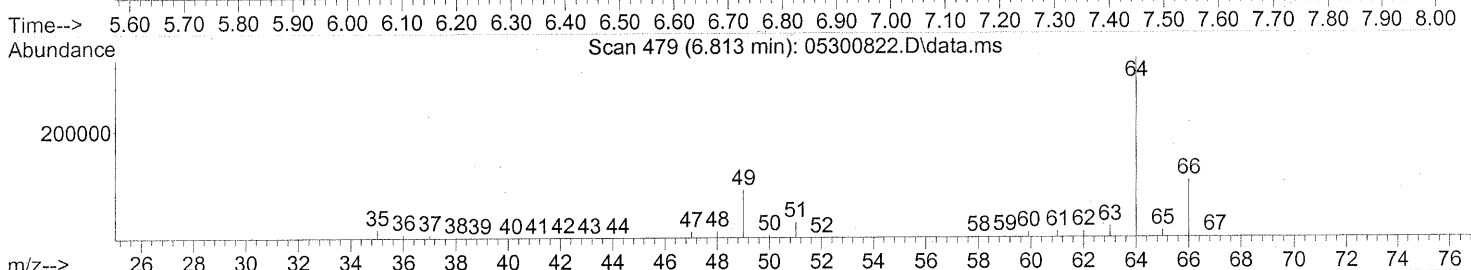
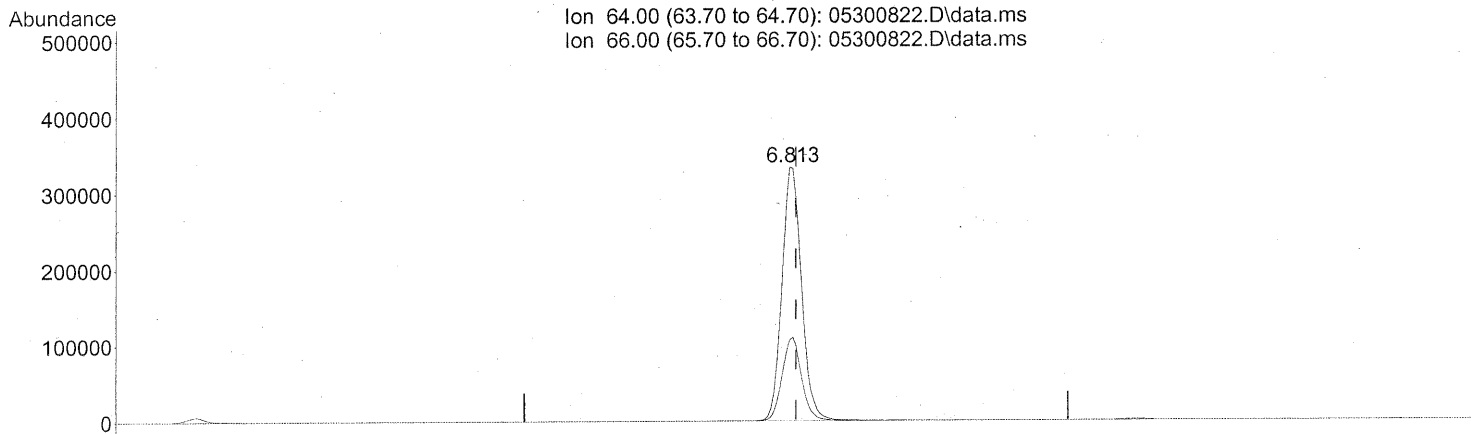
(8) Bromomethane (T)  
 6.483min (-0.006) 0.15ng  
 response 3053

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	89.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)  
 6.813min (-0.011) 49.15ng  
 response 828825

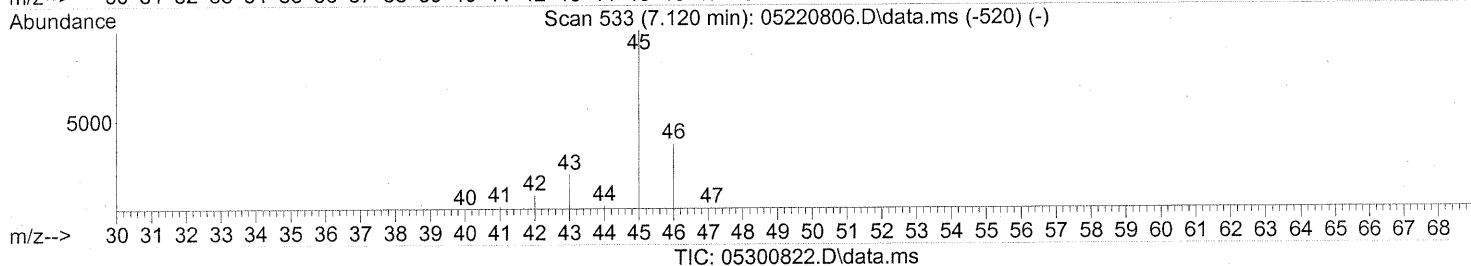
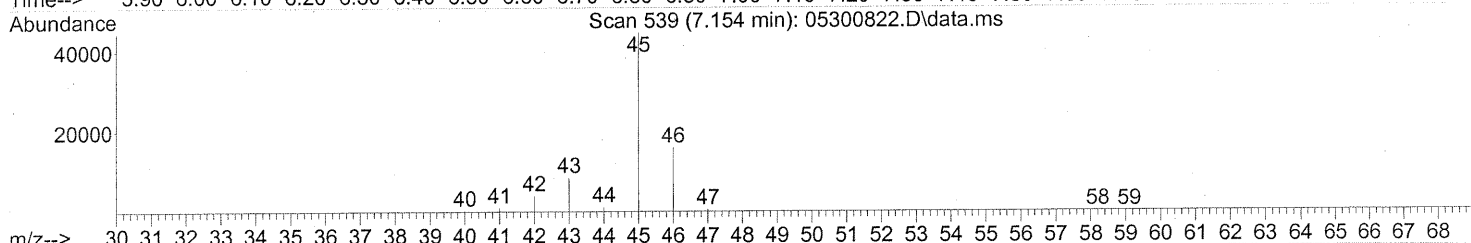
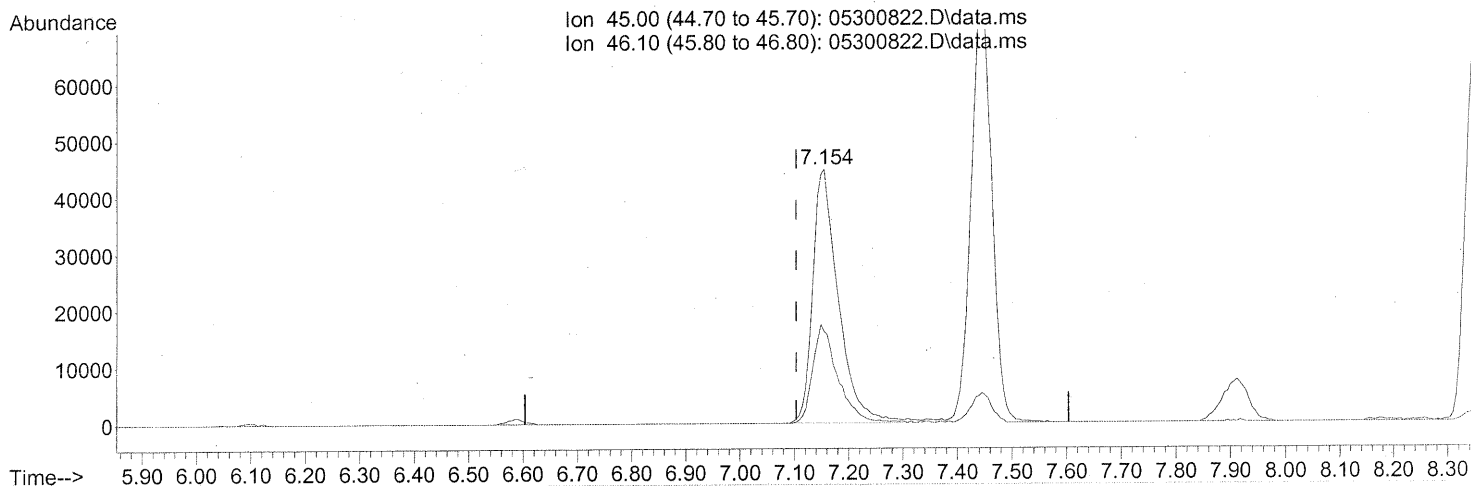
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	32.52
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.154min (+0.051) 7.43ng

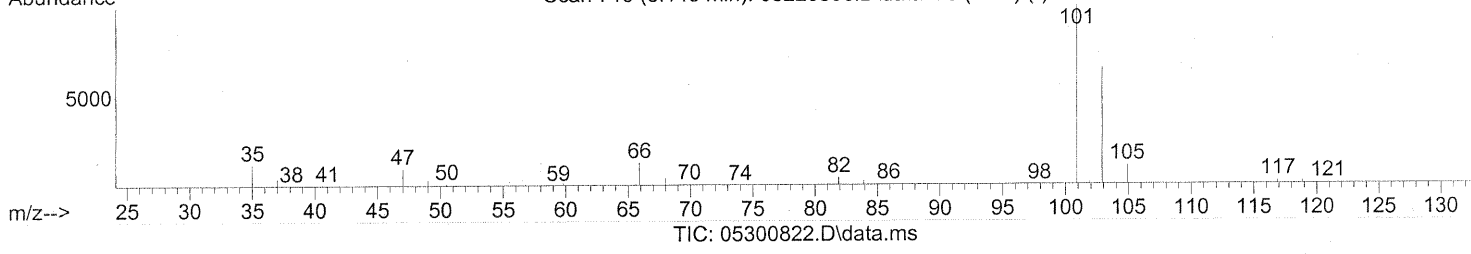
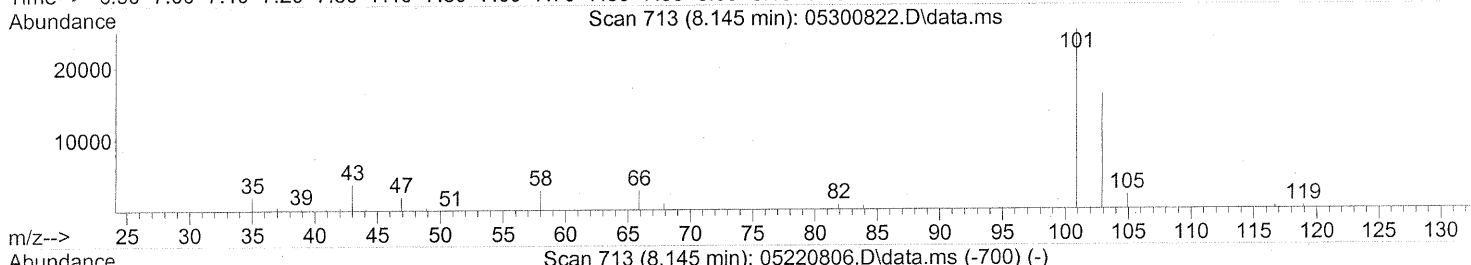
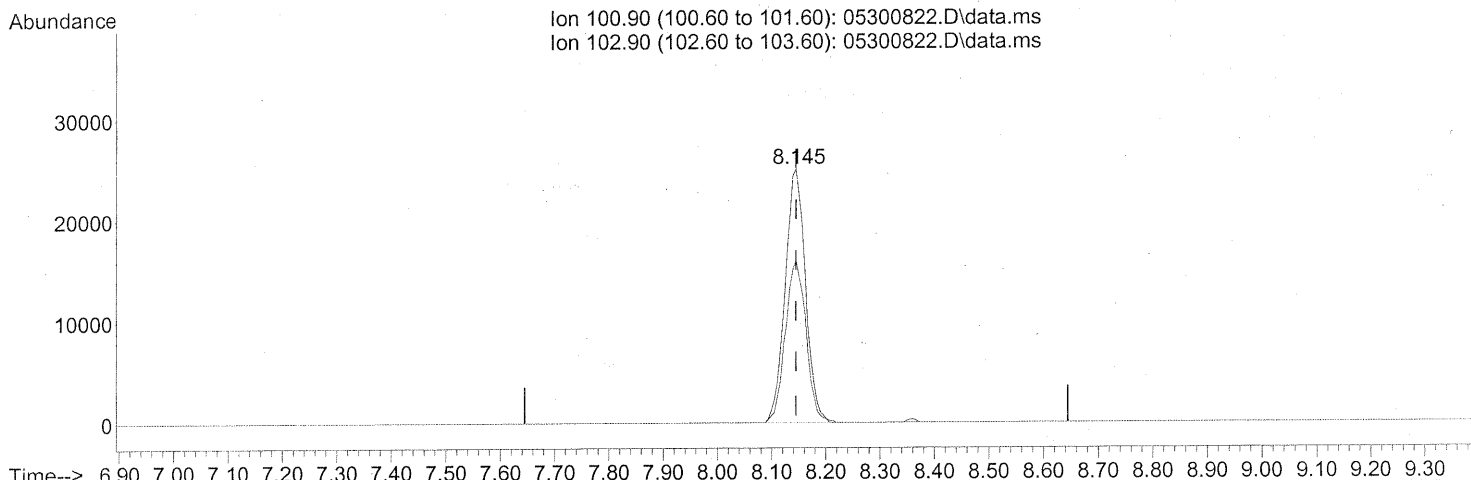
response 147034

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.58
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00 am  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (+0.000) 1.39ng

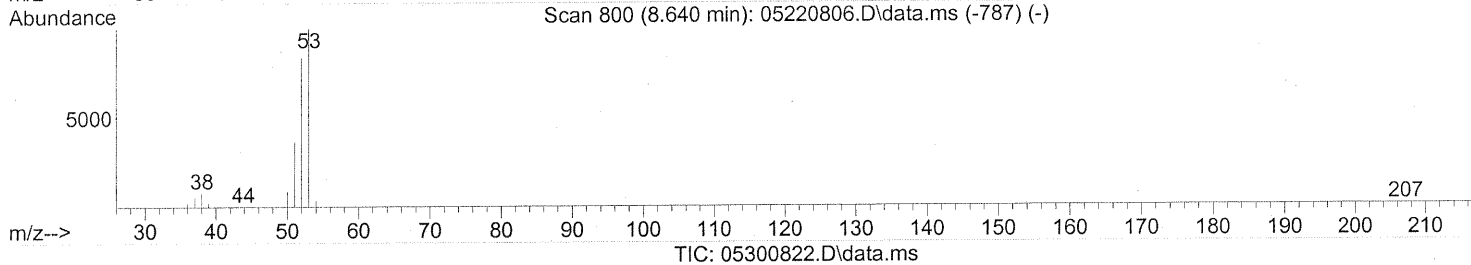
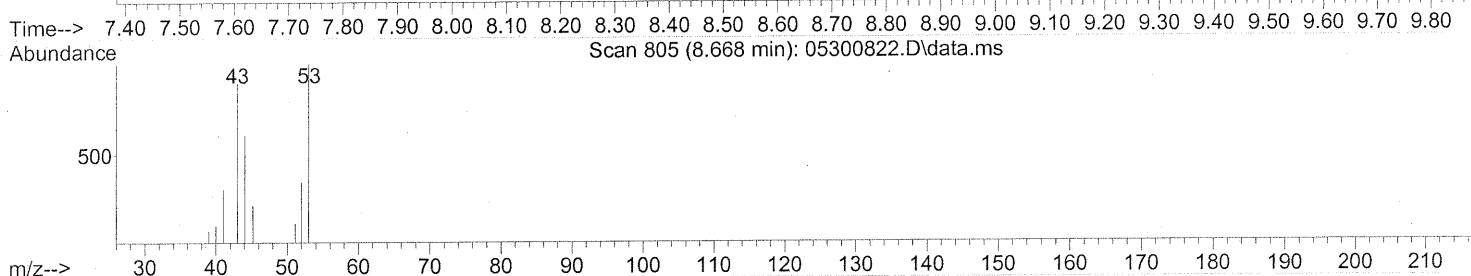
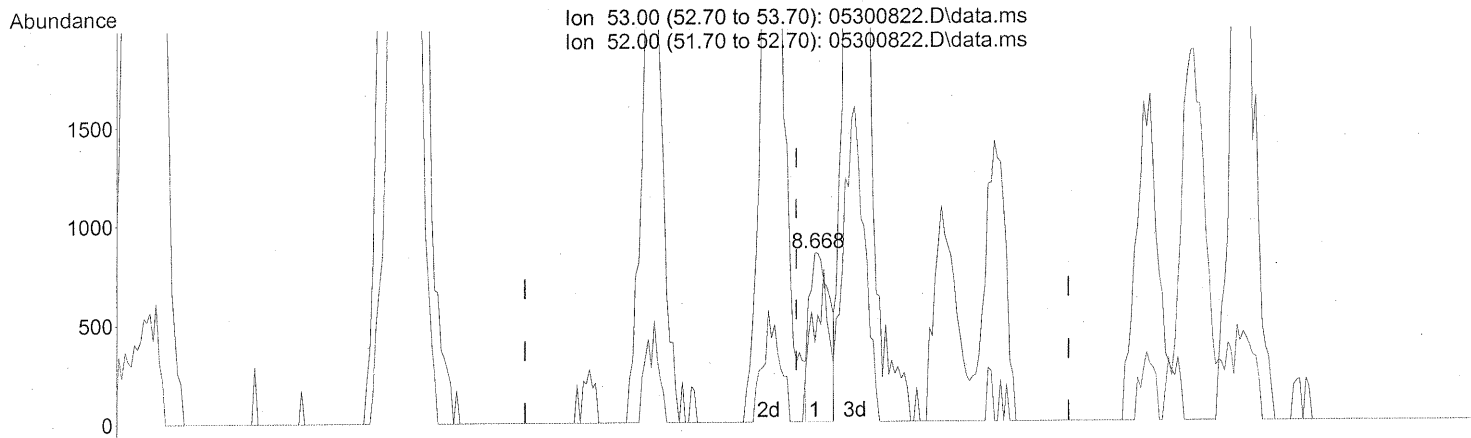
response 65303

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.668min (+0.034) 0.07ng

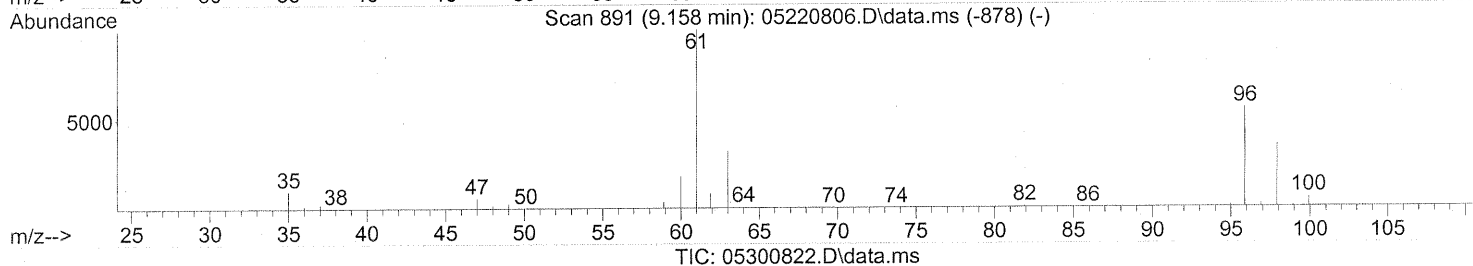
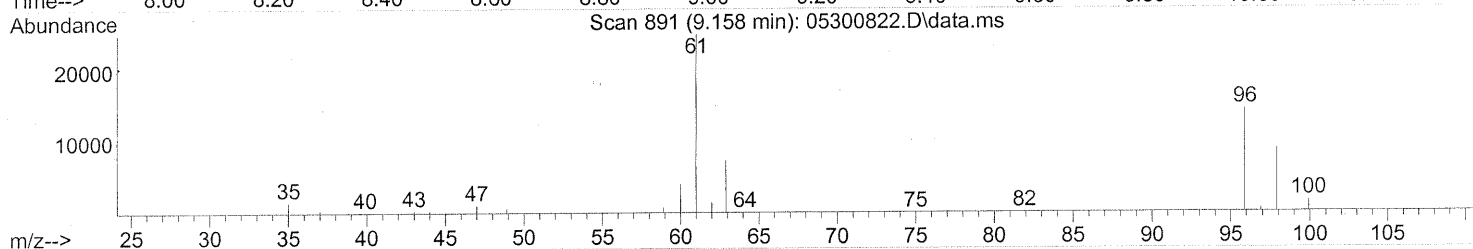
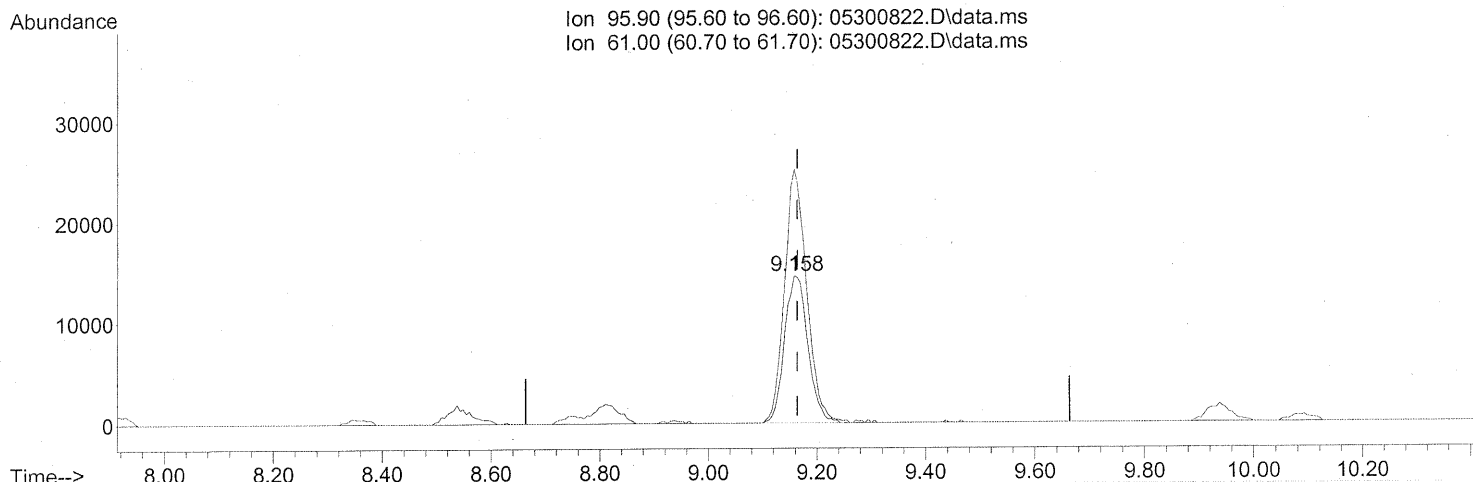
response 2175

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	25.70#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 2.09ng

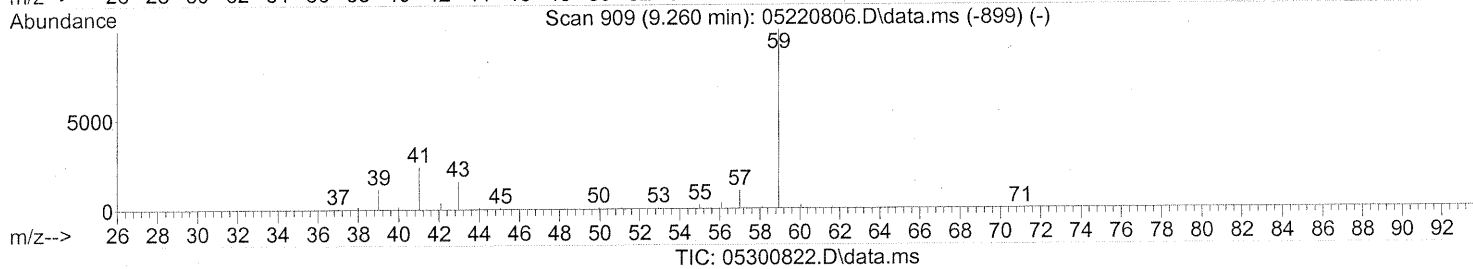
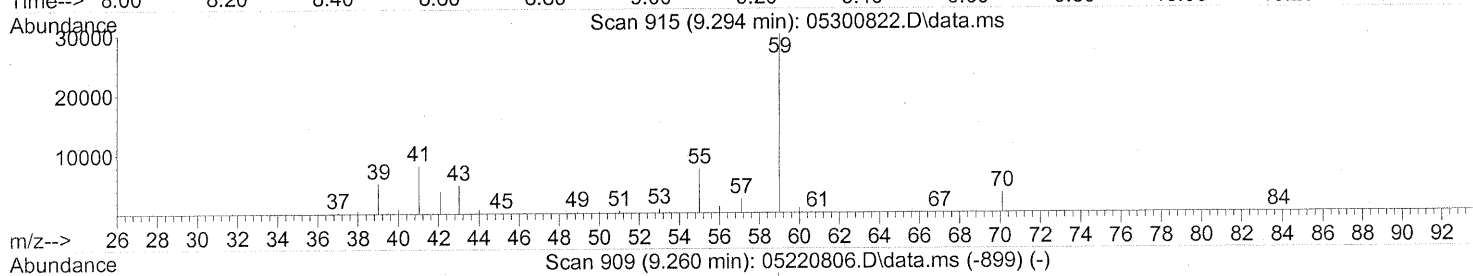
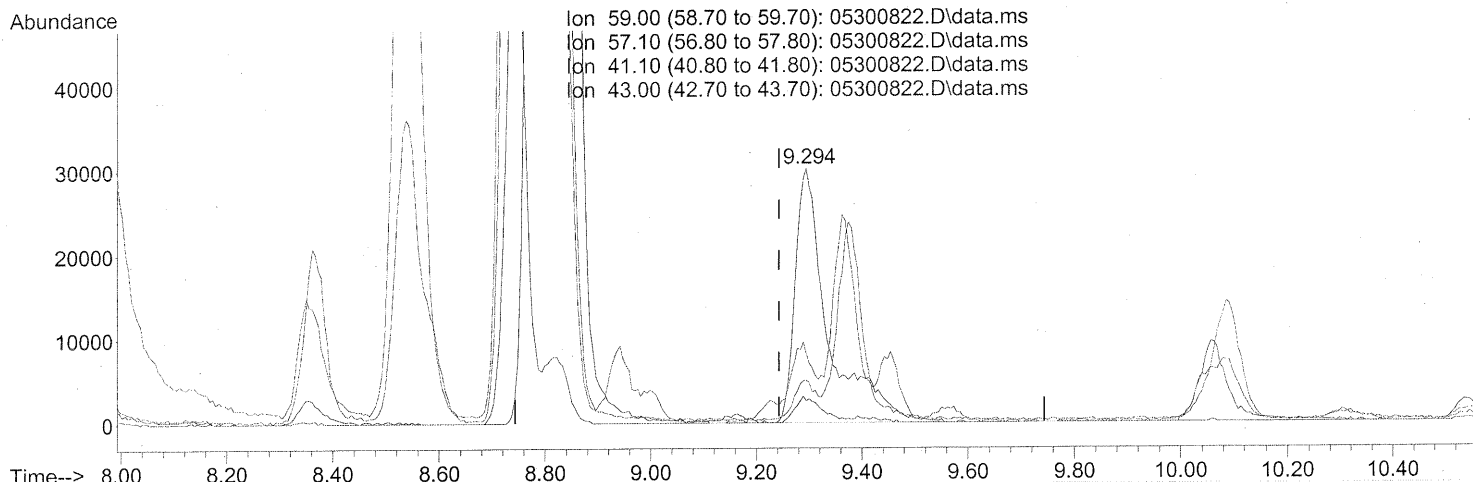
response 43155

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	164.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



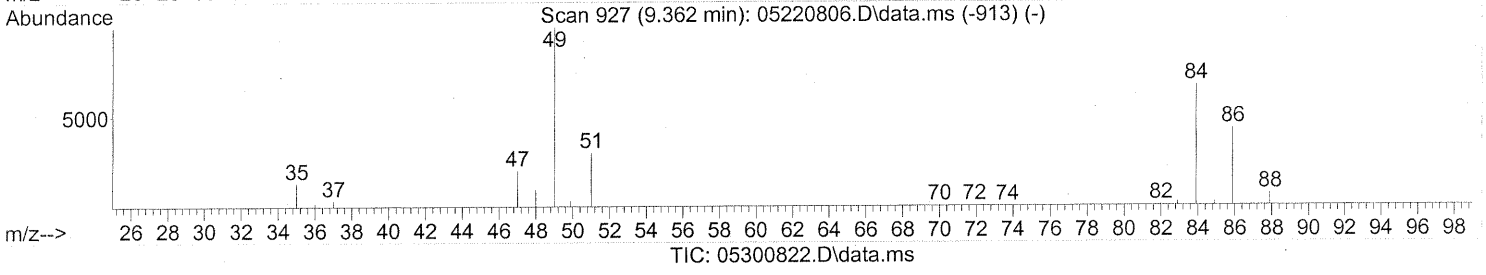
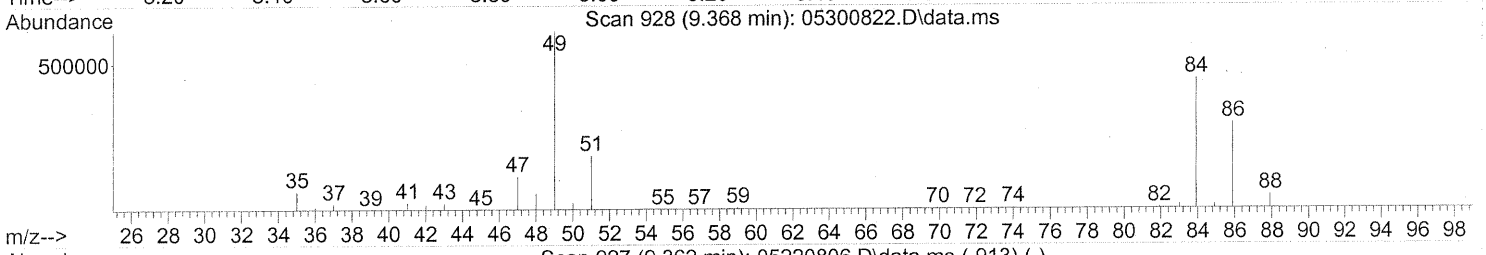
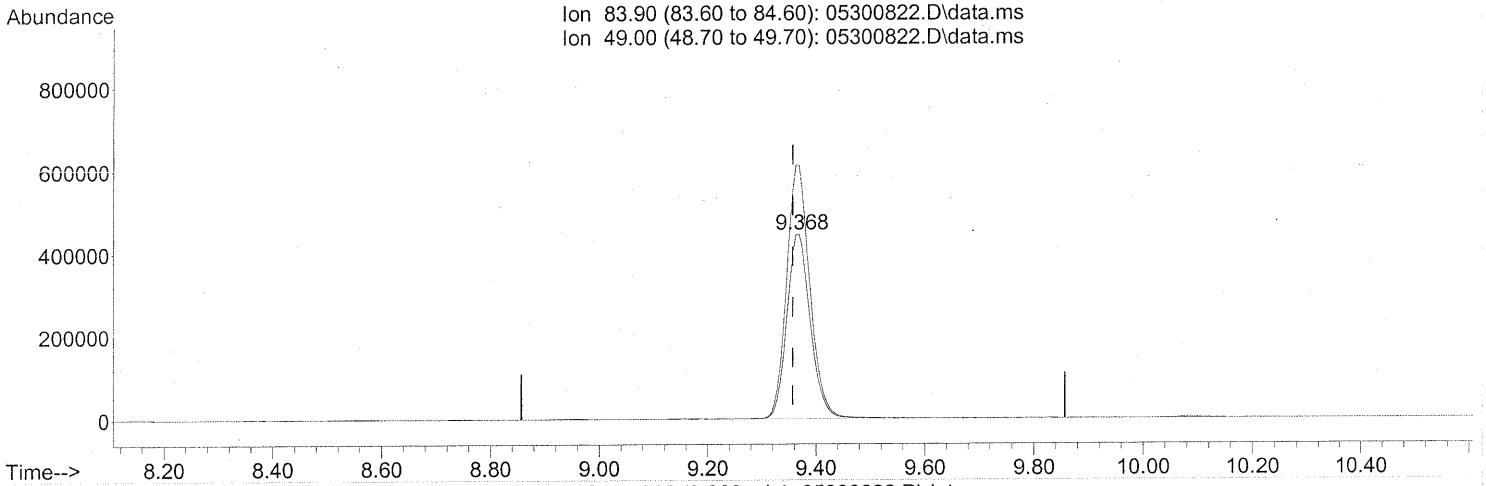
(18) tert-Butanol (T)  
 9.294min (+0.051) 2.39ng  
 response 131421

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.23
41.10	20.10	21.51
43.00	12.30	10.35

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.368min (+0.011) 59.02ng

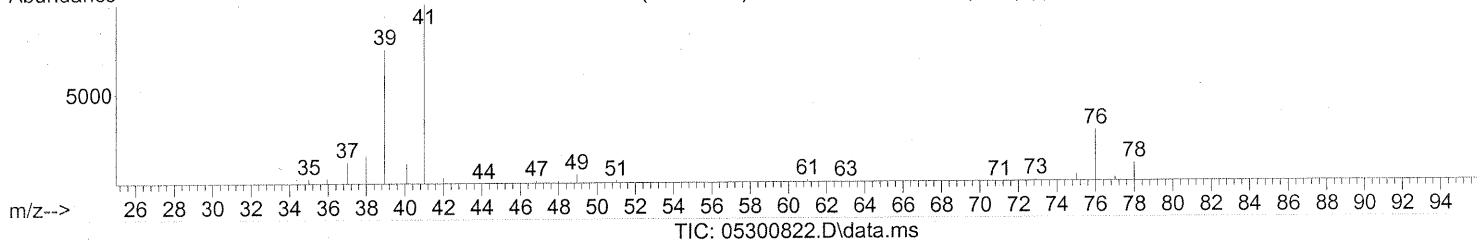
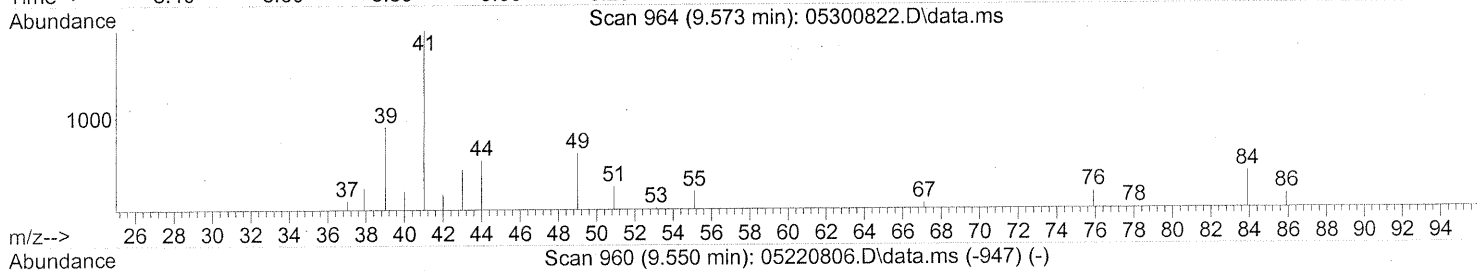
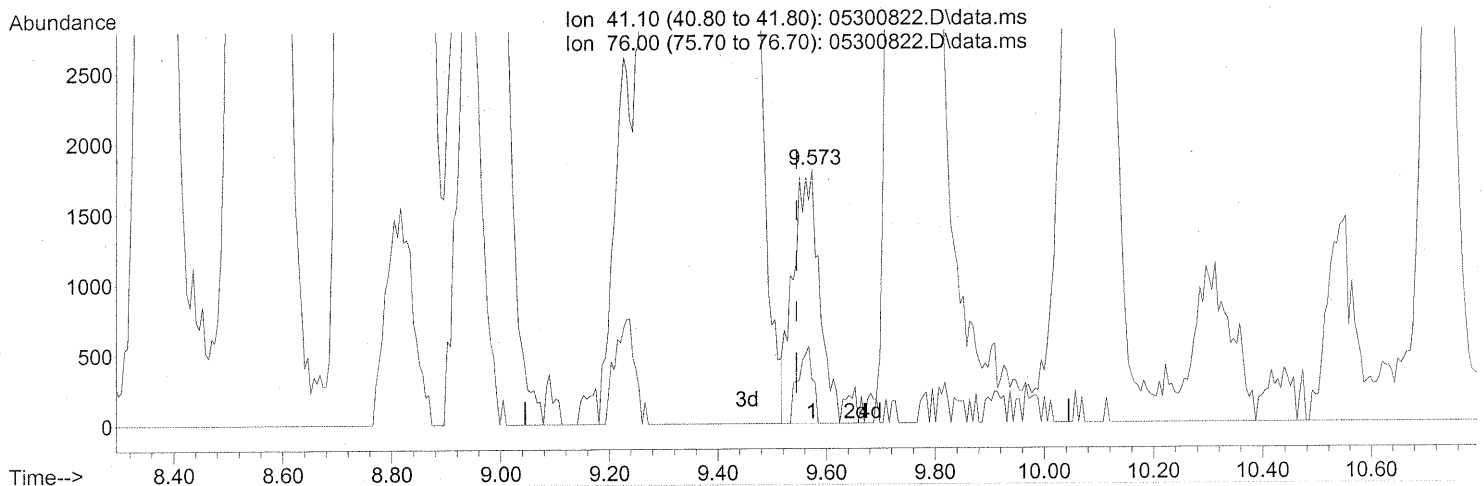
response 1336333

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	136.72#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(20) Allyl Chloride (T)

9.573min (+0.028) 0.20ng

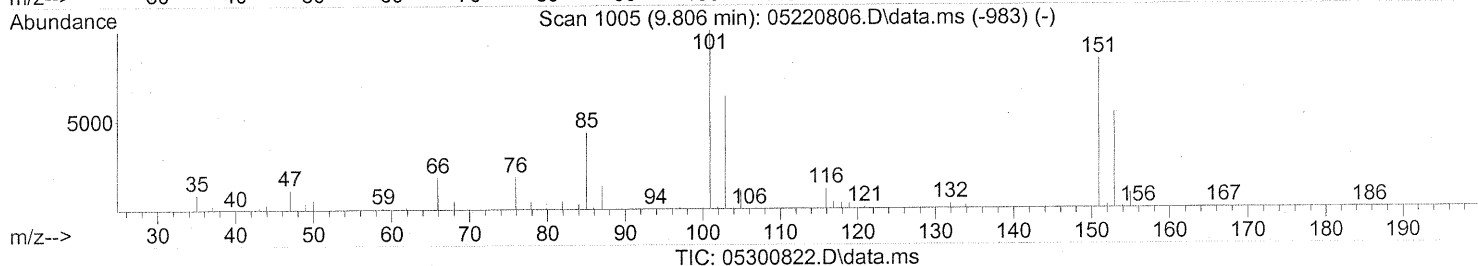
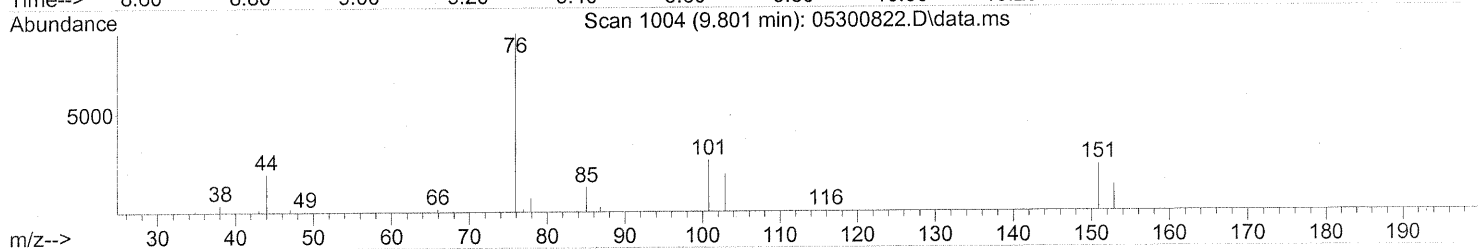
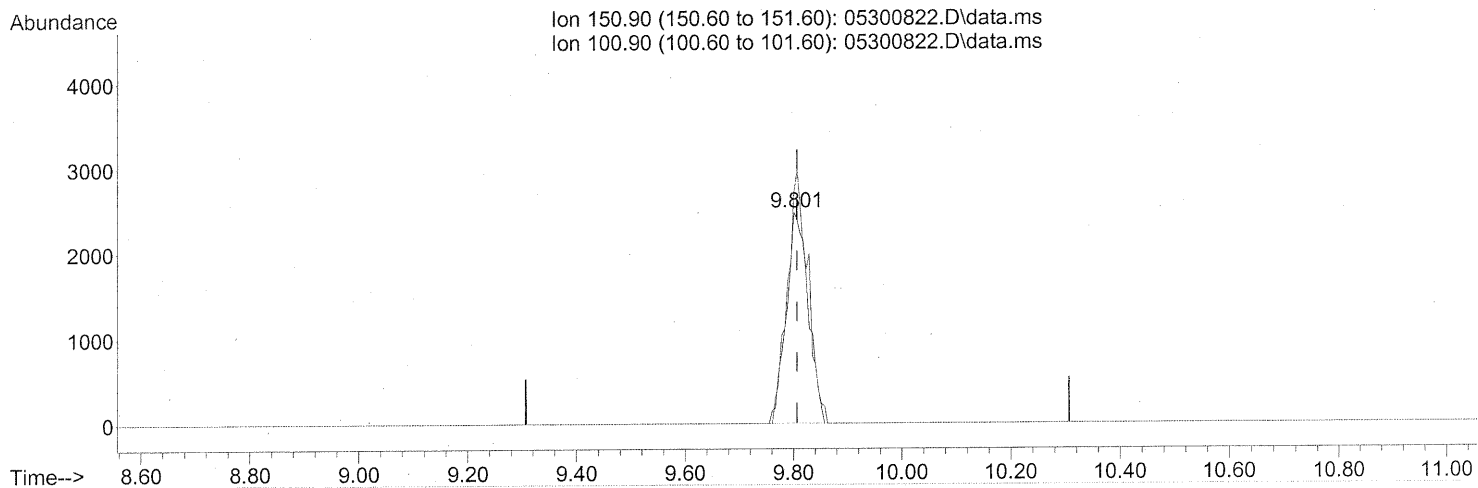
response 6060

Ion	Exp%	Act%
41.10	100	100
76.00	30.20	16.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00 am  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.33ng

response 6984

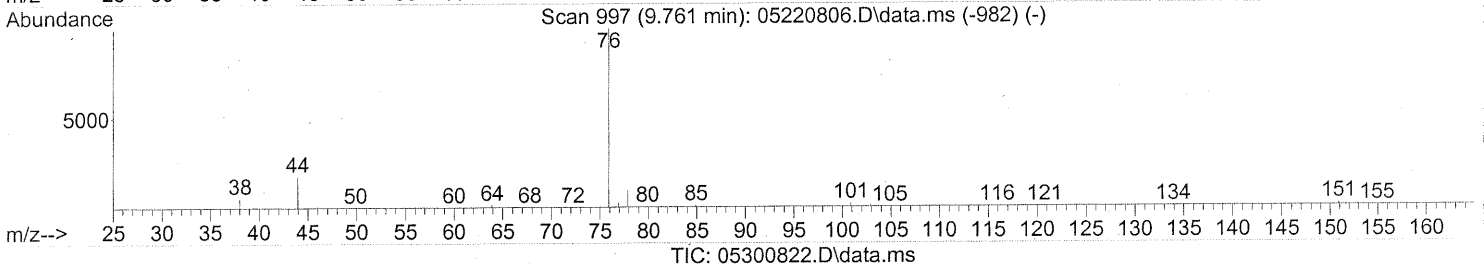
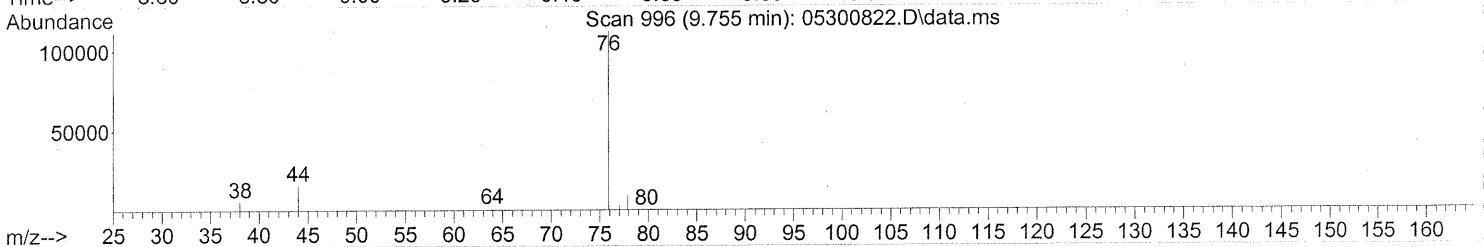
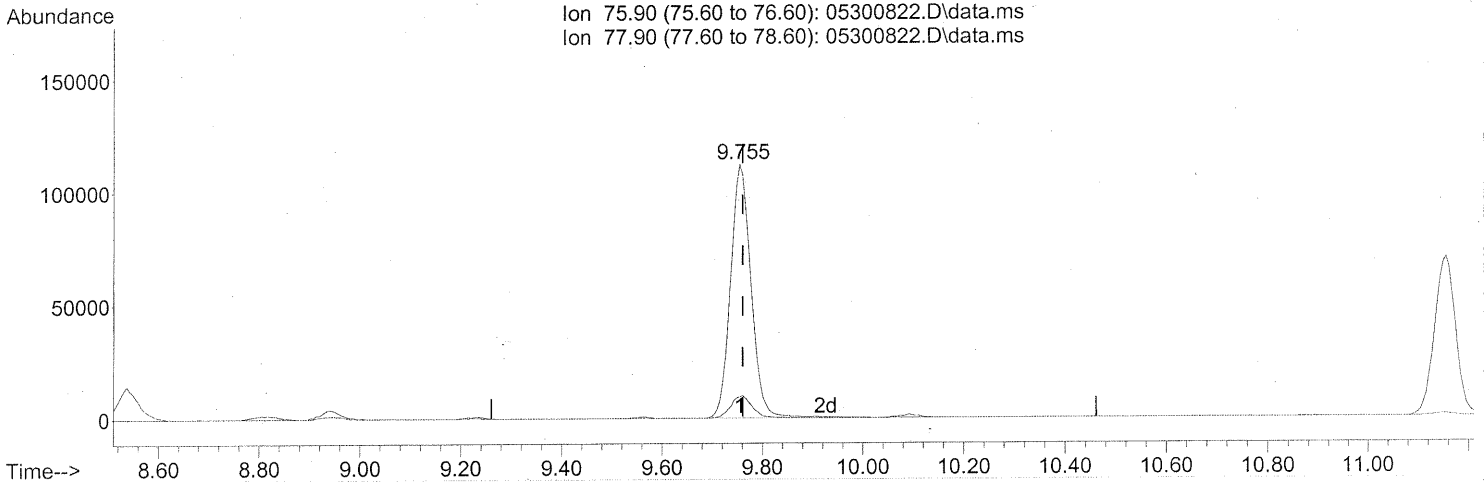
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	111.88
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 3.65ng

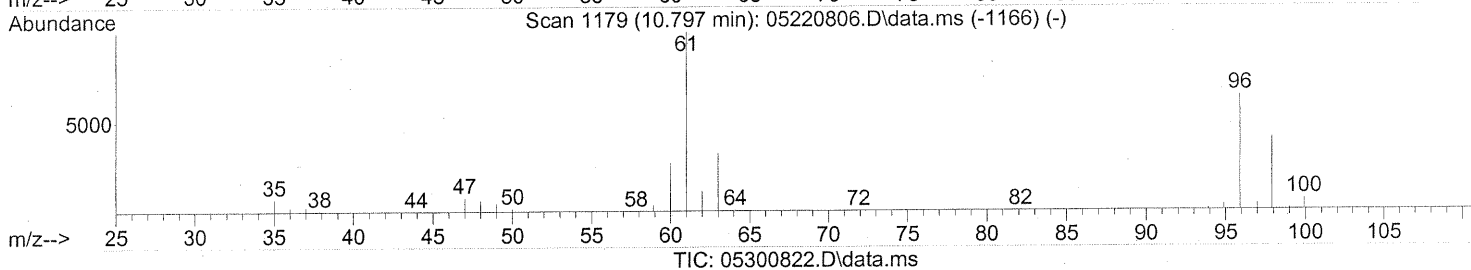
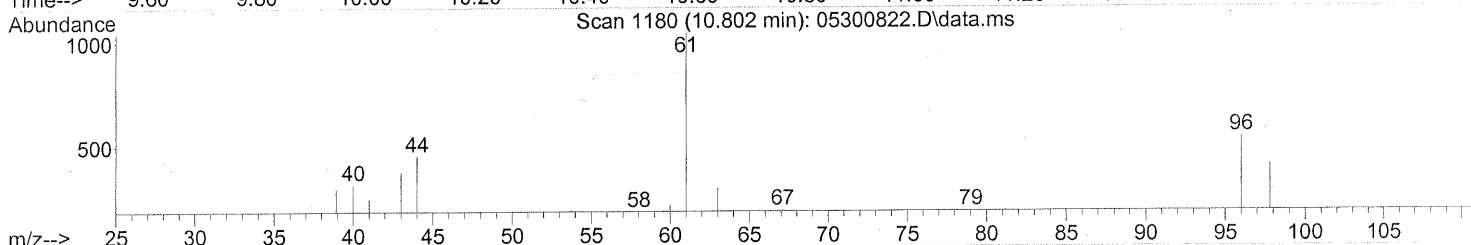
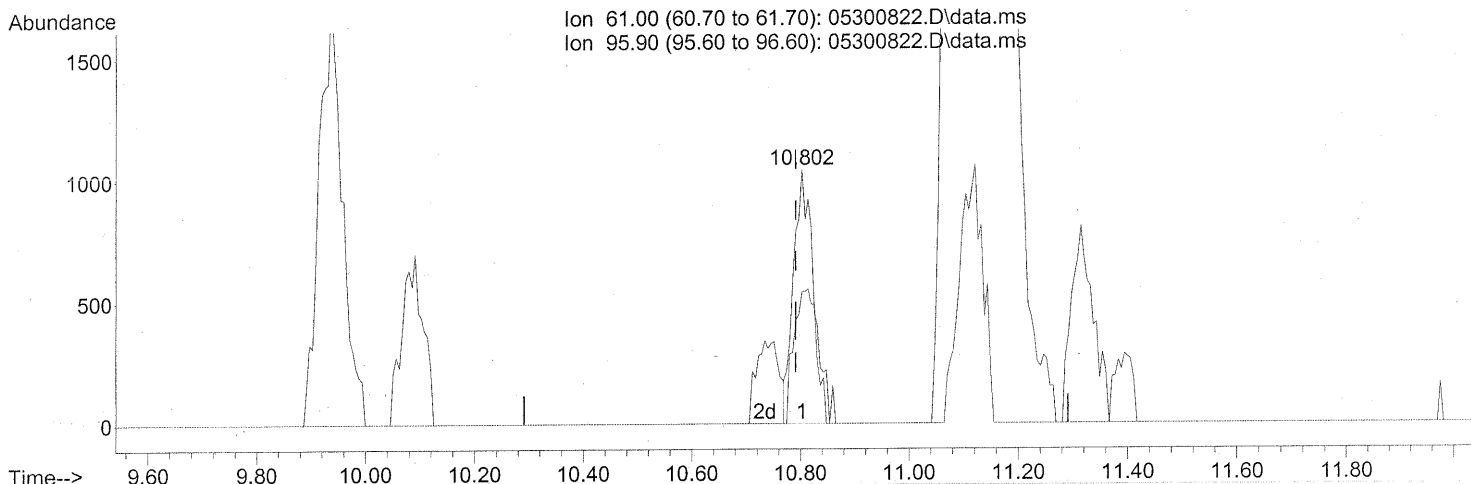
response 313529

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(23) trans-1,2-Dichloroethene (T)

10.802min (+0.011) 0.08ng

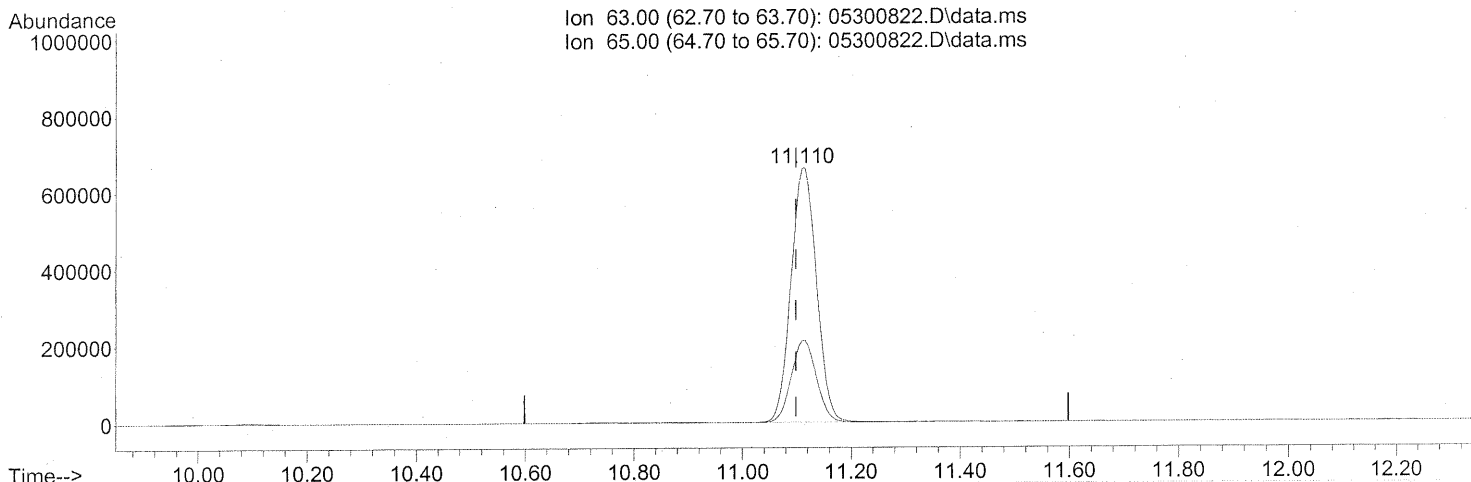
response 2738

Ion	Exp%	Act%
61.00	100	100
95.90	54.20	58.07
0.00	0.00	0.00
0.00	0.00	0.00

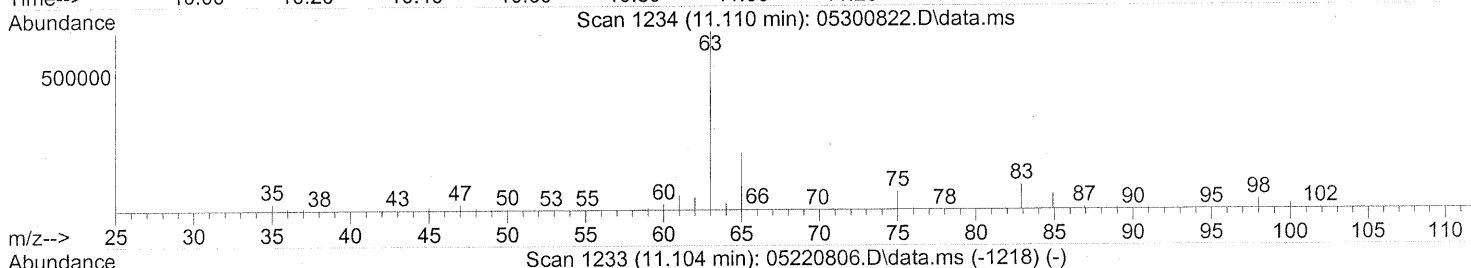
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

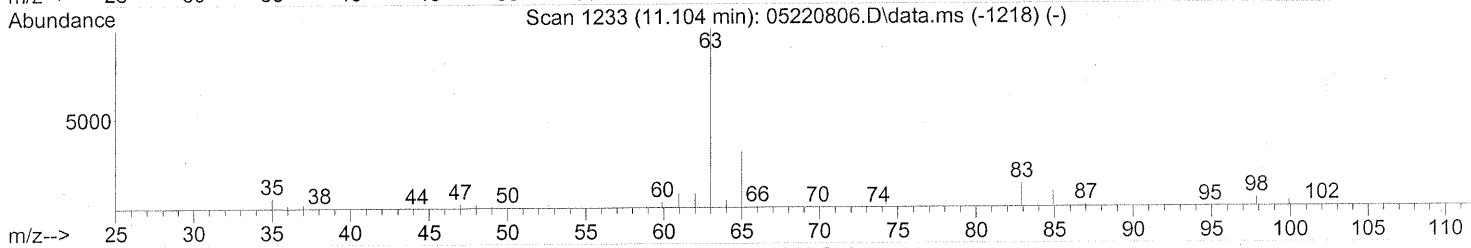
Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 63.00 (62.70 to 63.70): 05300822.D\data.ms  
 Ion 65.00 (64.70 to 65.70): 05300822.D\data.ms



Scan 1234 (11.110 min): 05300822.D\data.ms



Scan 1233 (11.104 min): 05220806.D\data.ms (-1218) (-)

TIC: 05300822.D\data.ms

(24) 1,1-Dichloroethane (T)

11.110min (+0.011) 55.20ng

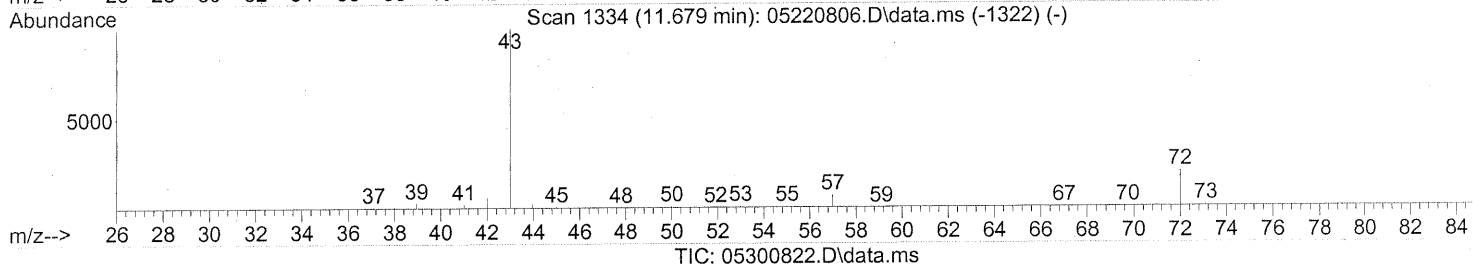
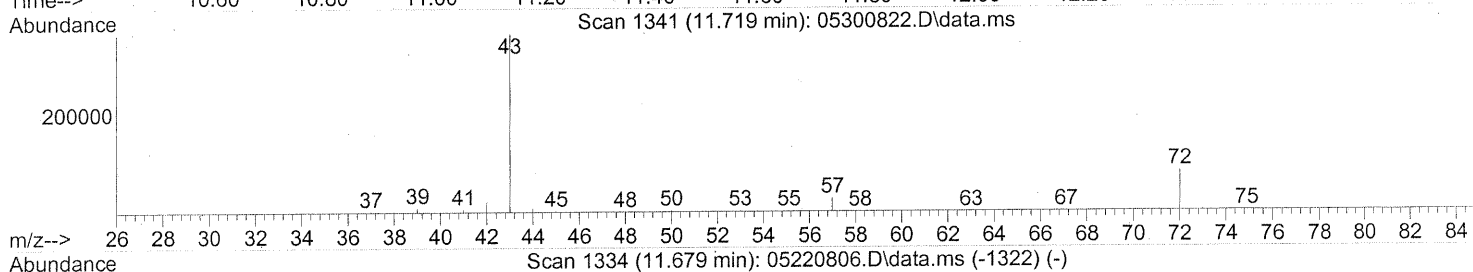
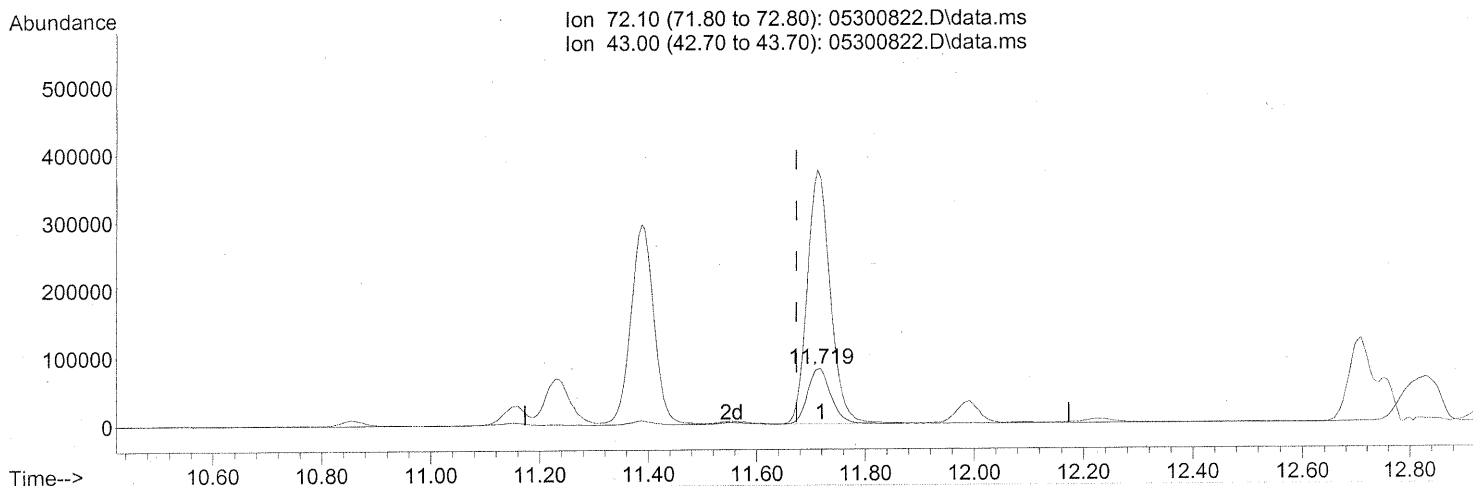
response 2168864

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



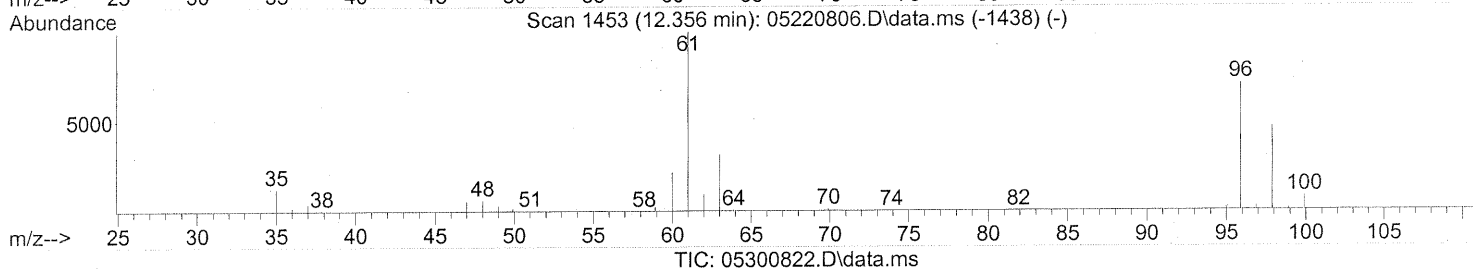
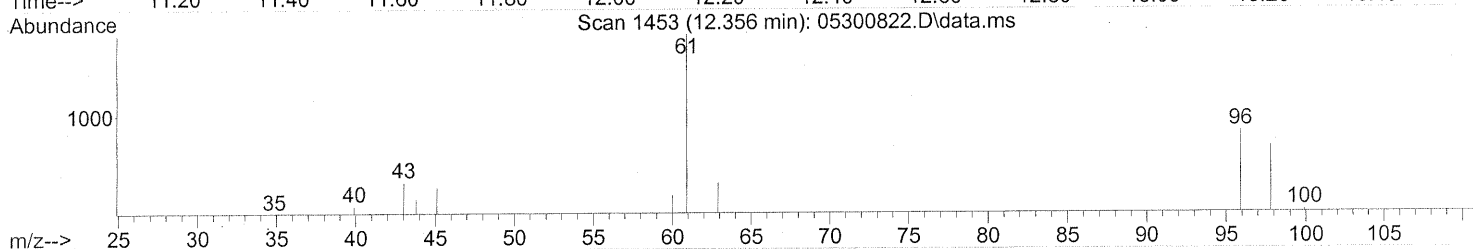
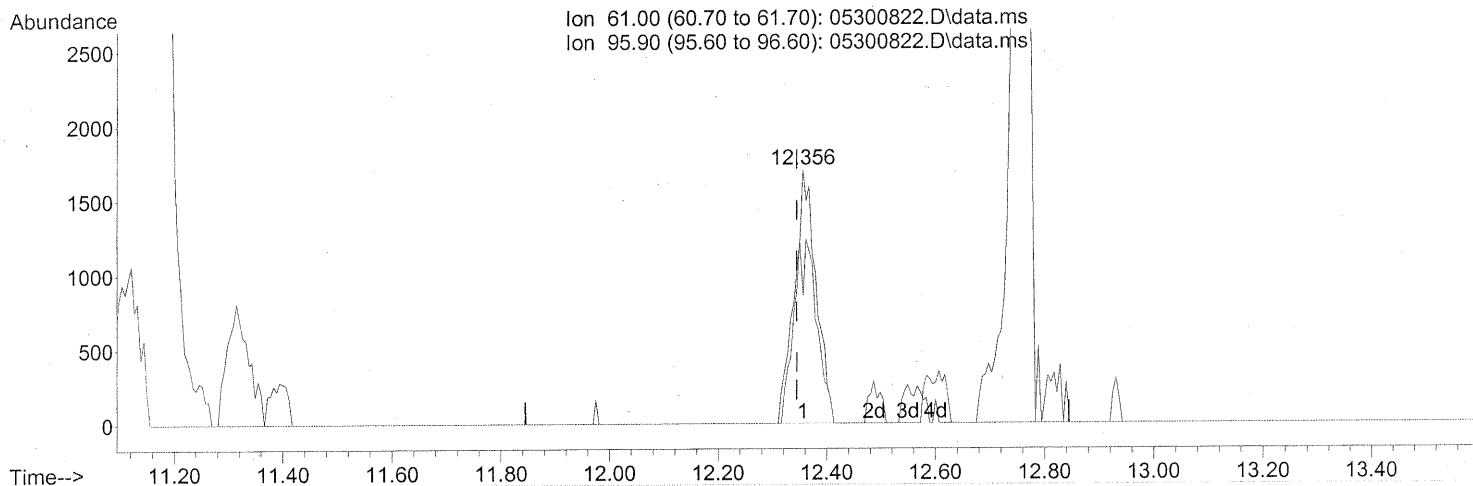
(27) 2-Butanone (T)  
 11.719min (+0.046) 16.61ng  
 response 245540

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	449.86#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.356min (+0.011) 0.15ng

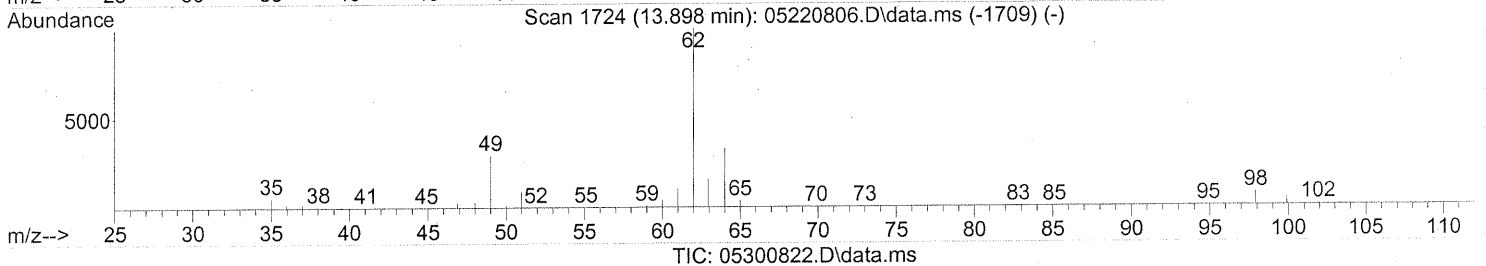
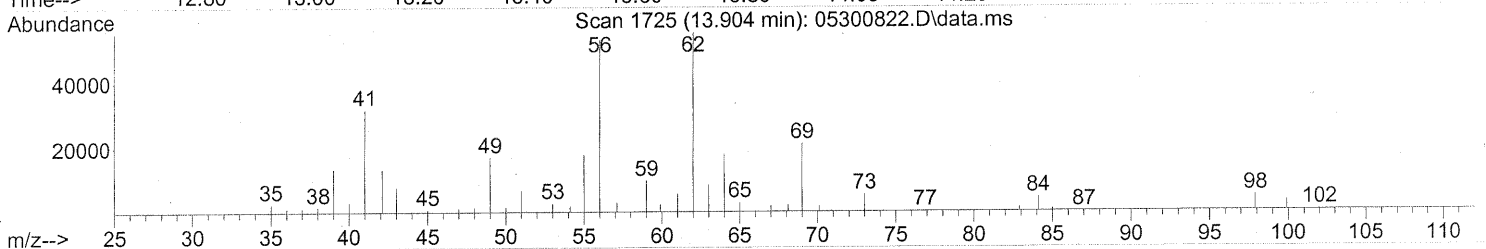
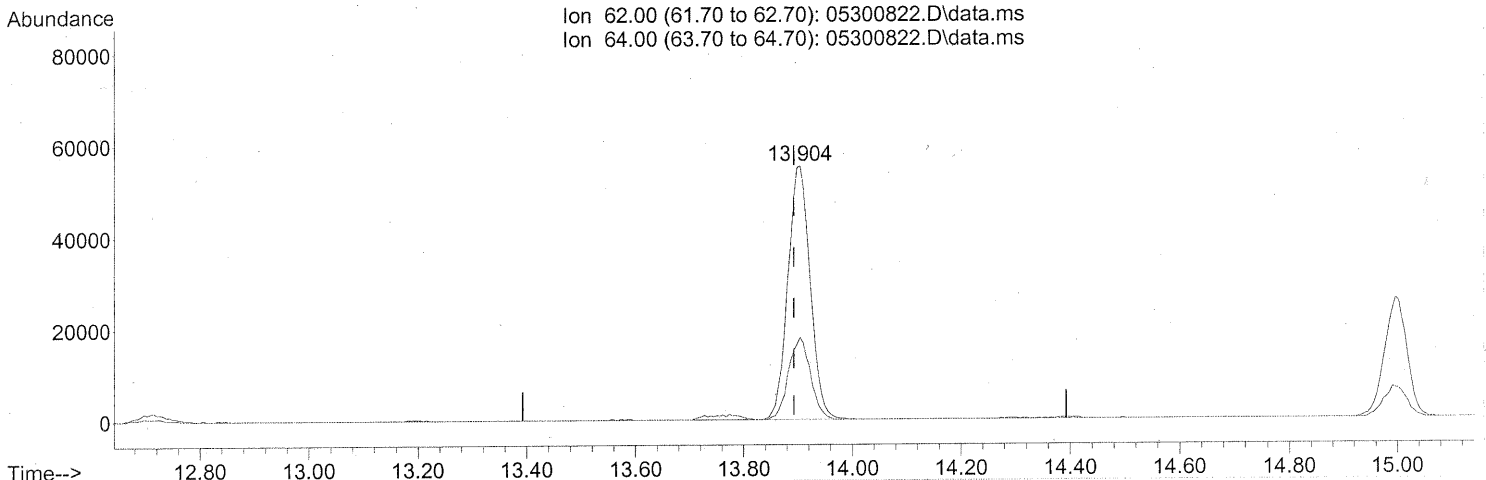
response 4763

Ion	Exp%	Act%
61.00	100	100
95.90	59.60	76.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.904min (+0.011) 4.76ng

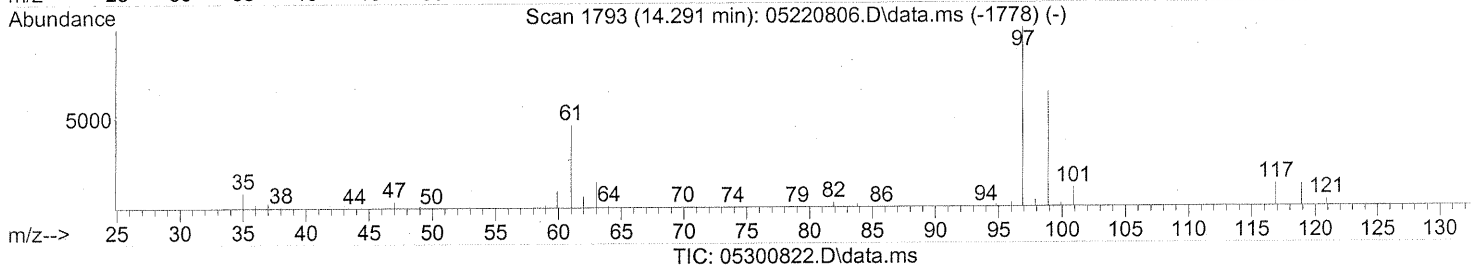
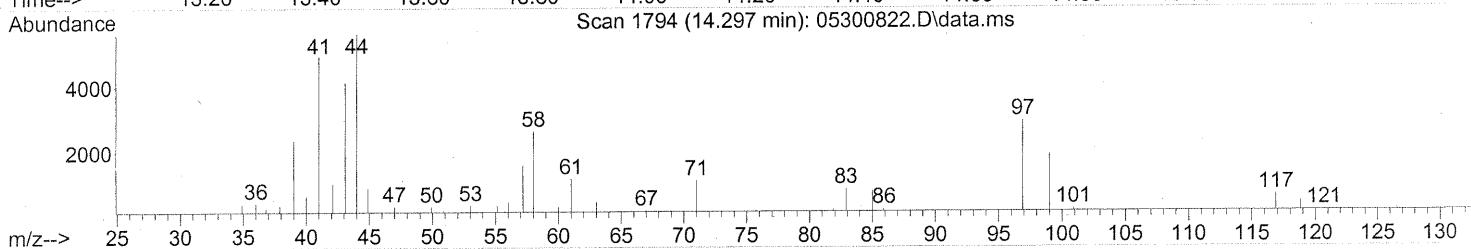
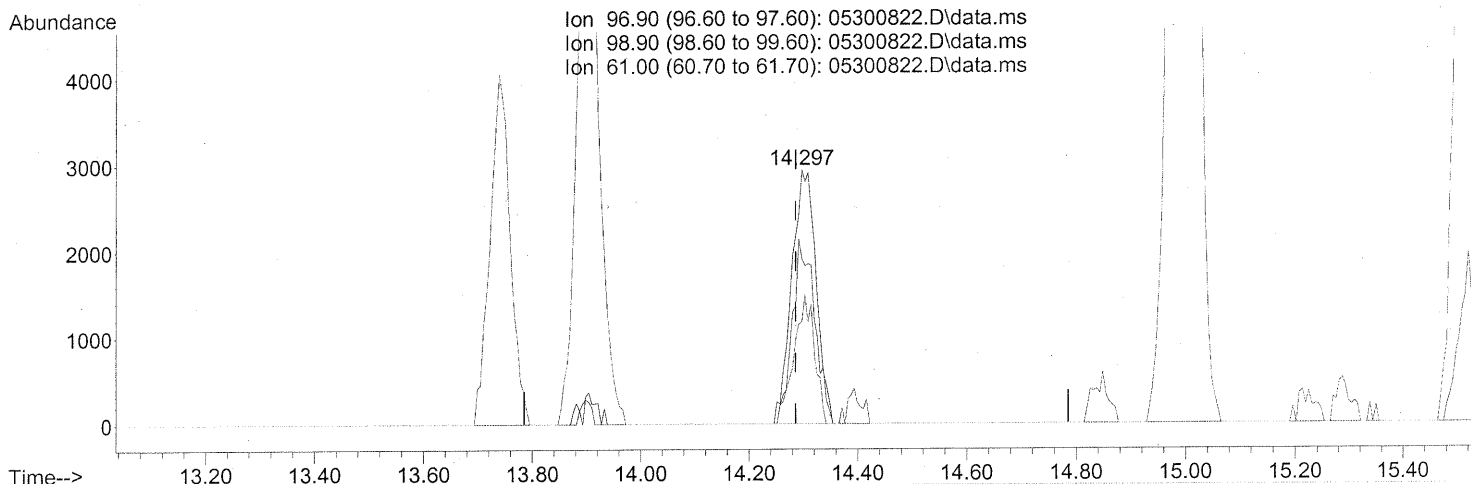
response 157905

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	31.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.297min (+0.011) 0.27ng

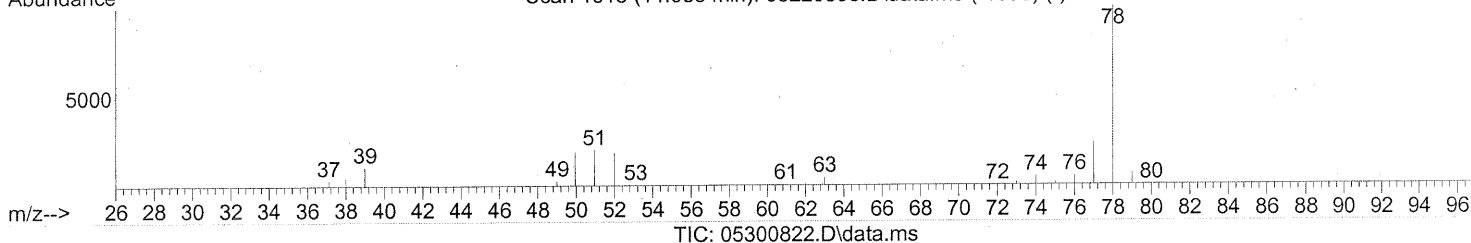
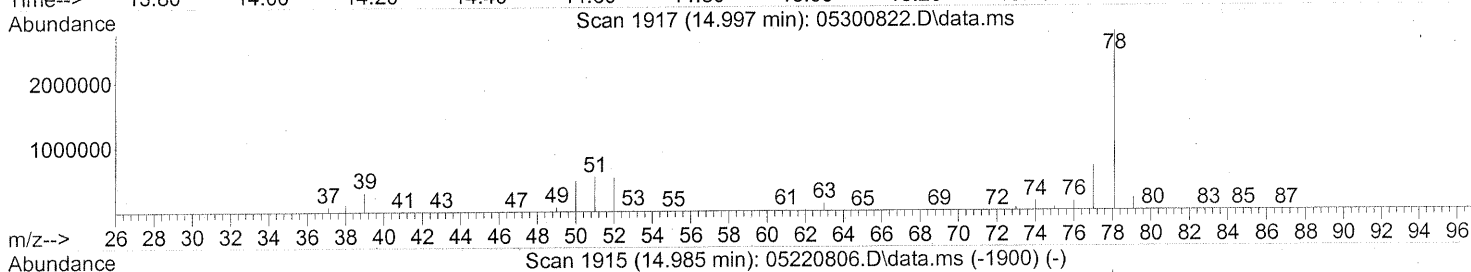
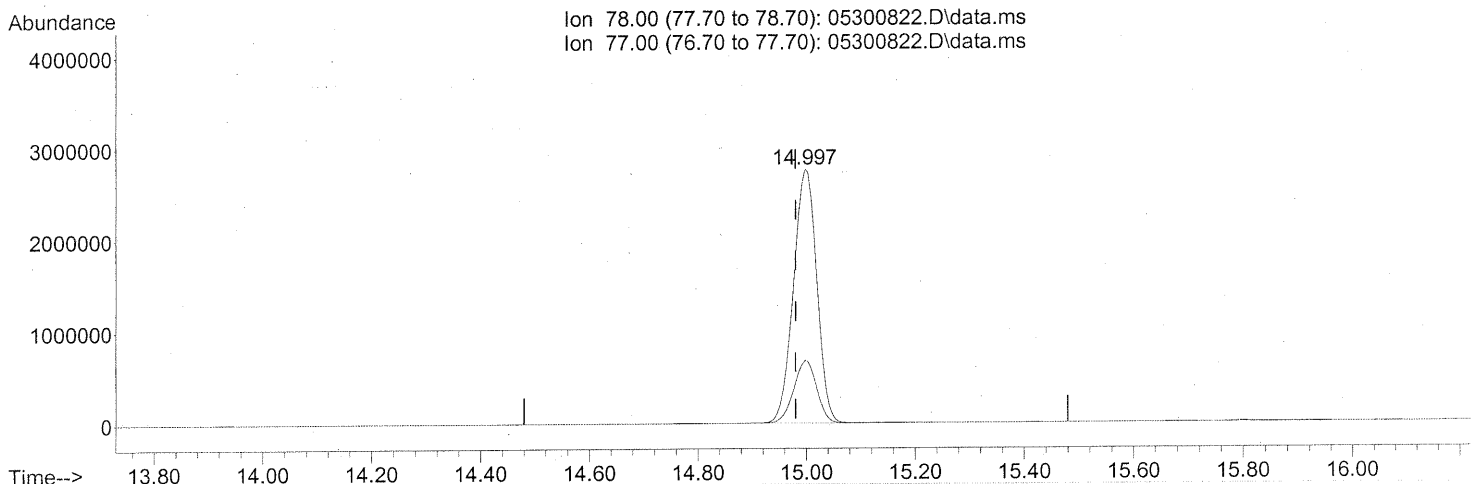
response 9179

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	66.45
61.00	50.50	42.68
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)  
 14.997min (+0.017) 105.78ng  
 response 8295031

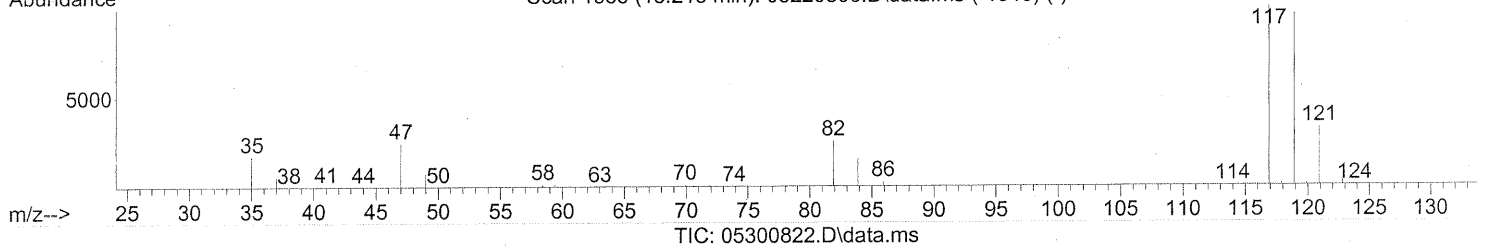
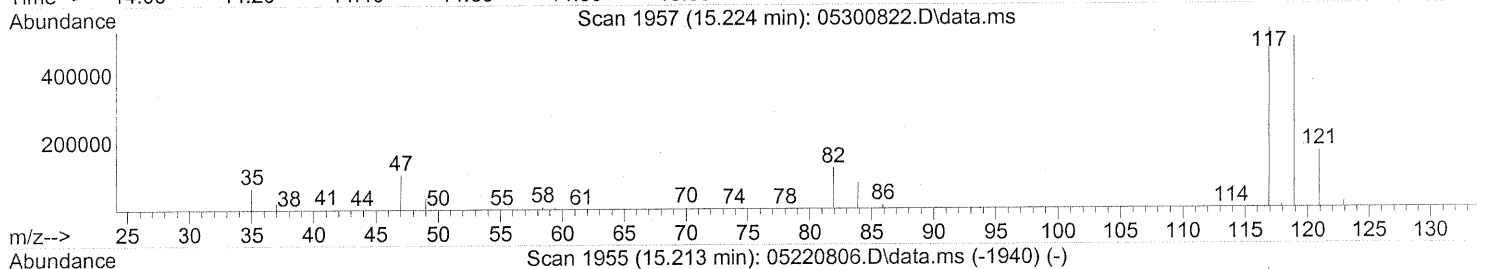
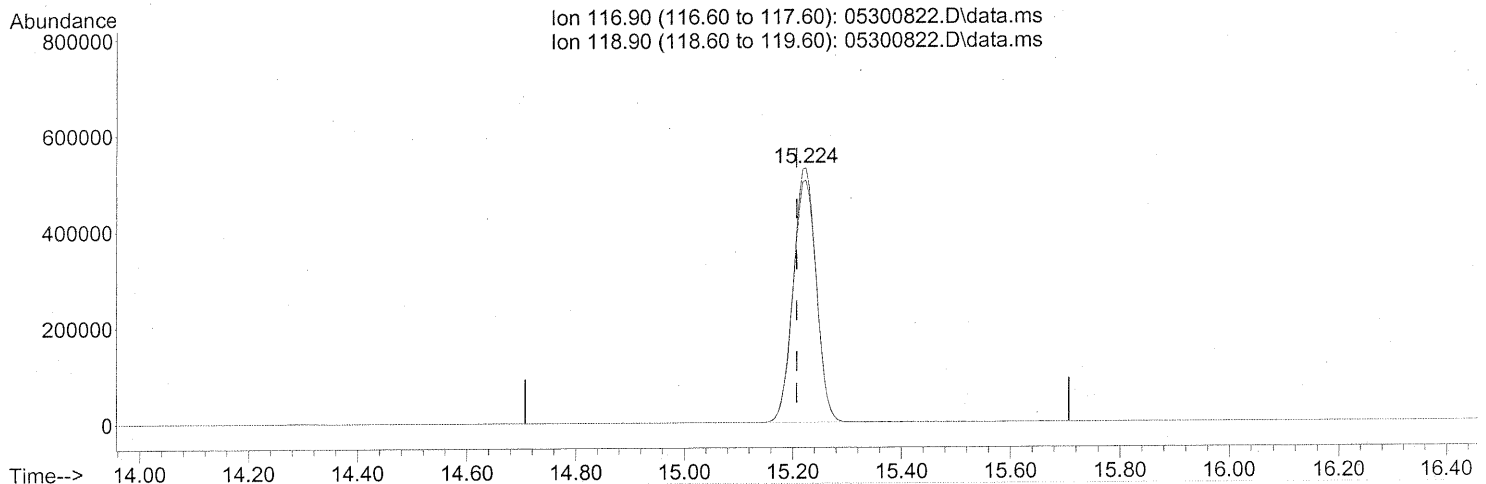
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.20
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.224min (+0.017) 51.86ng

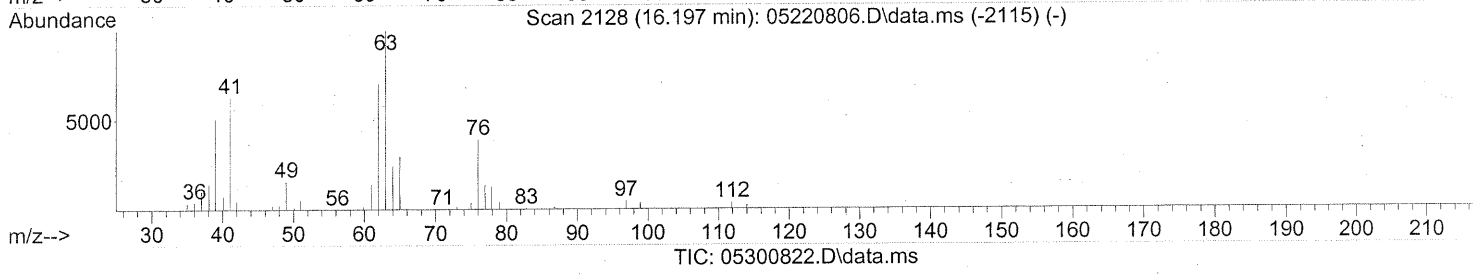
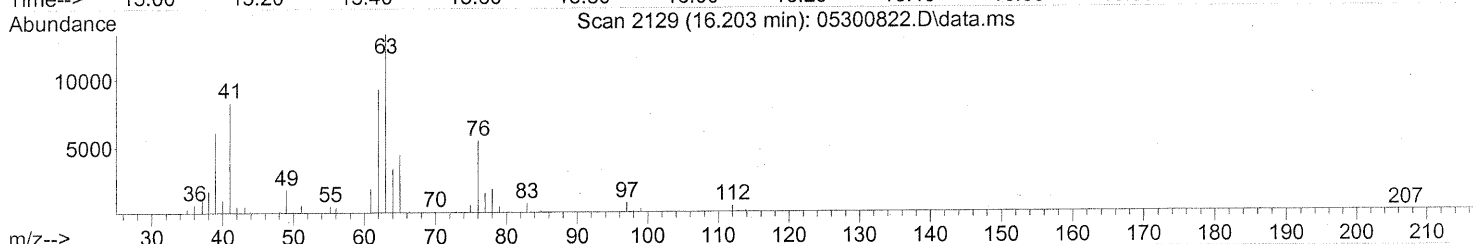
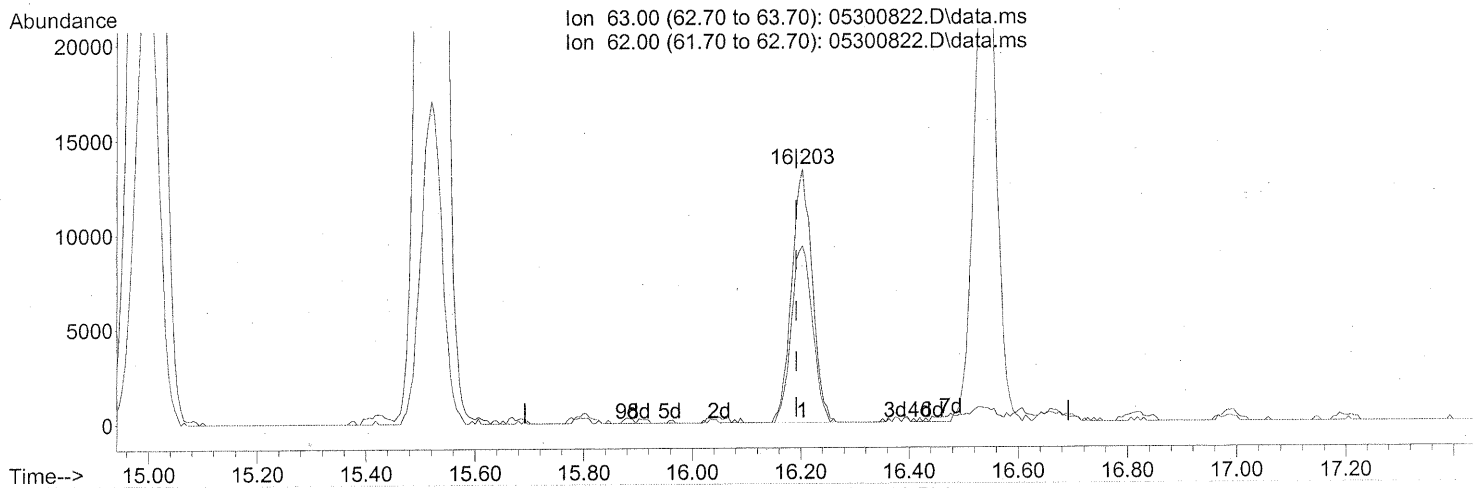
response 1566193

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.203min (+0.011) 1.68ng

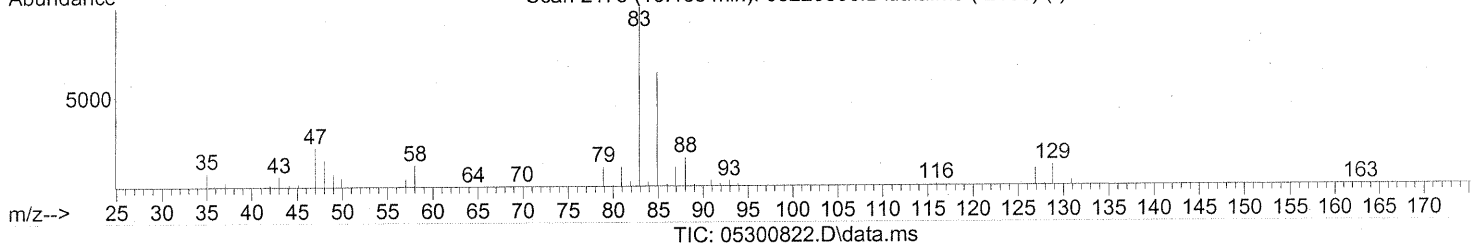
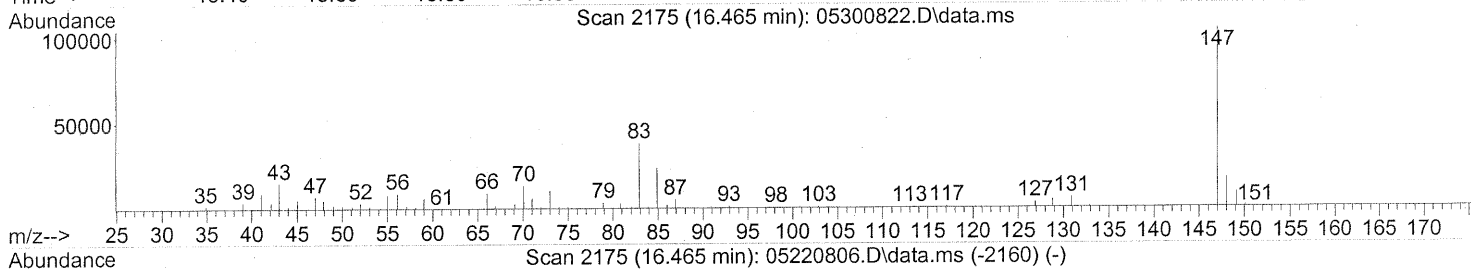
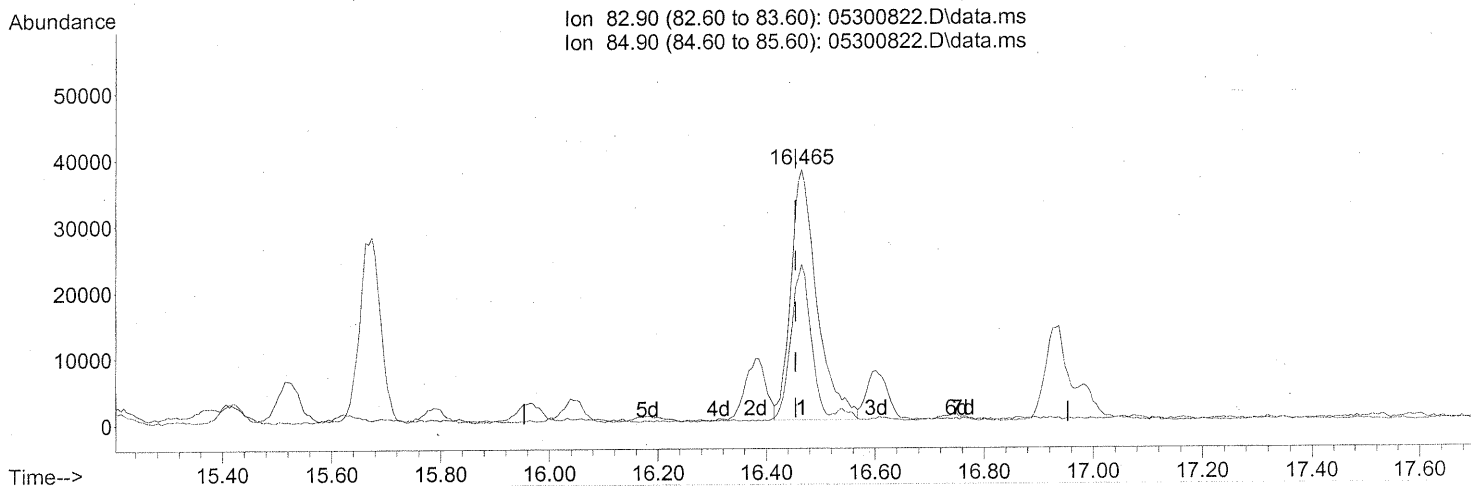
response 35320

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	71.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 4.78ng

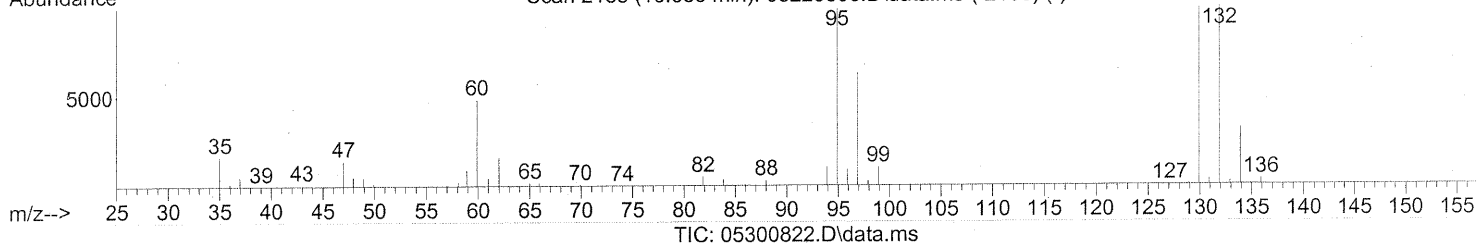
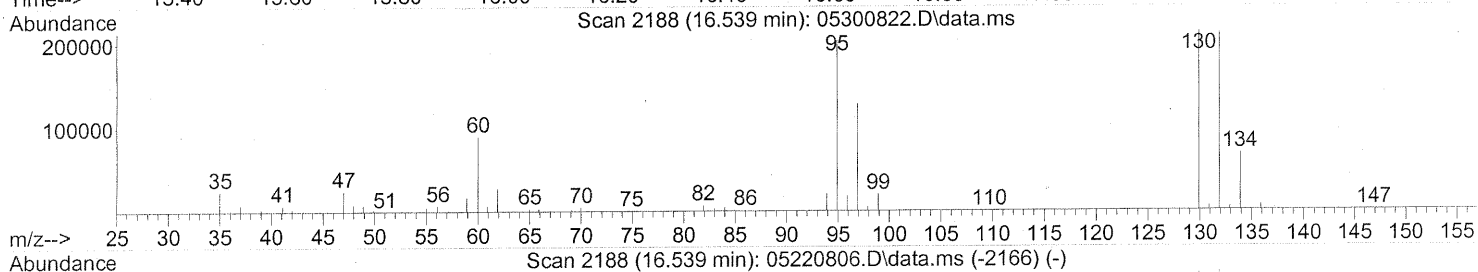
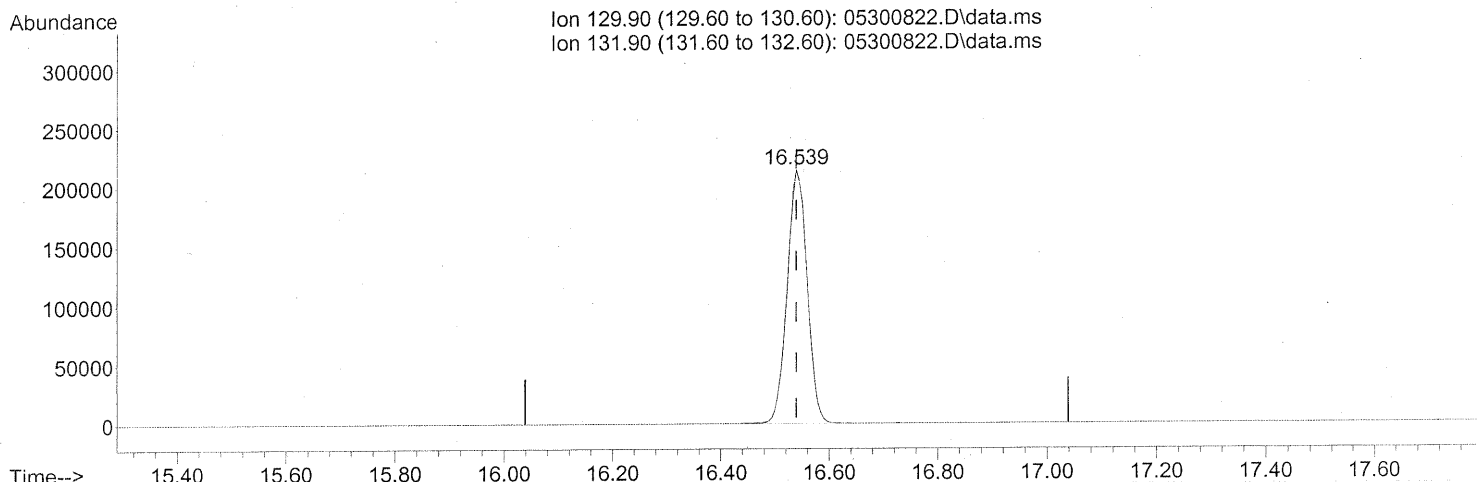
response 126571

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	48.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



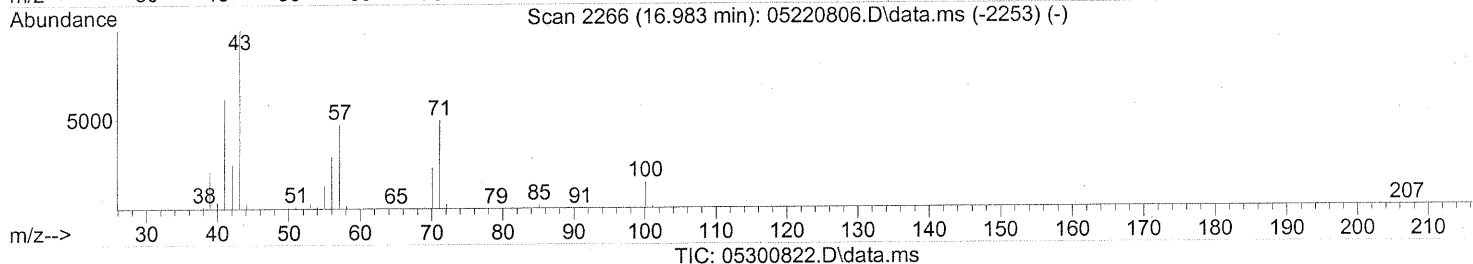
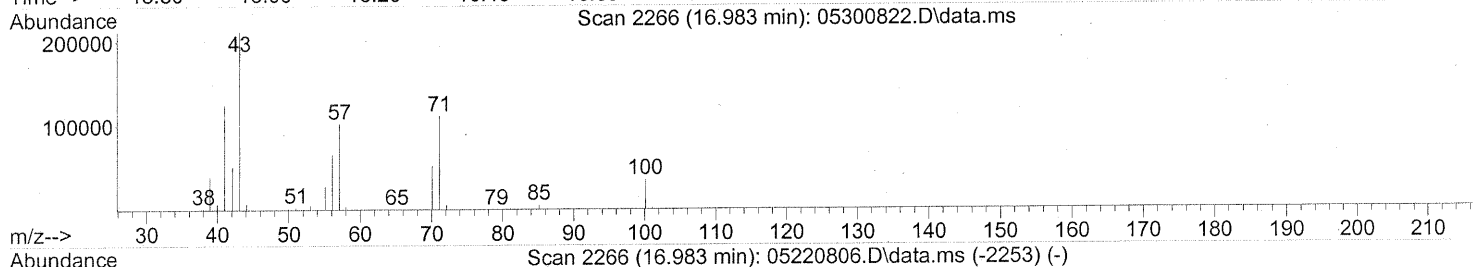
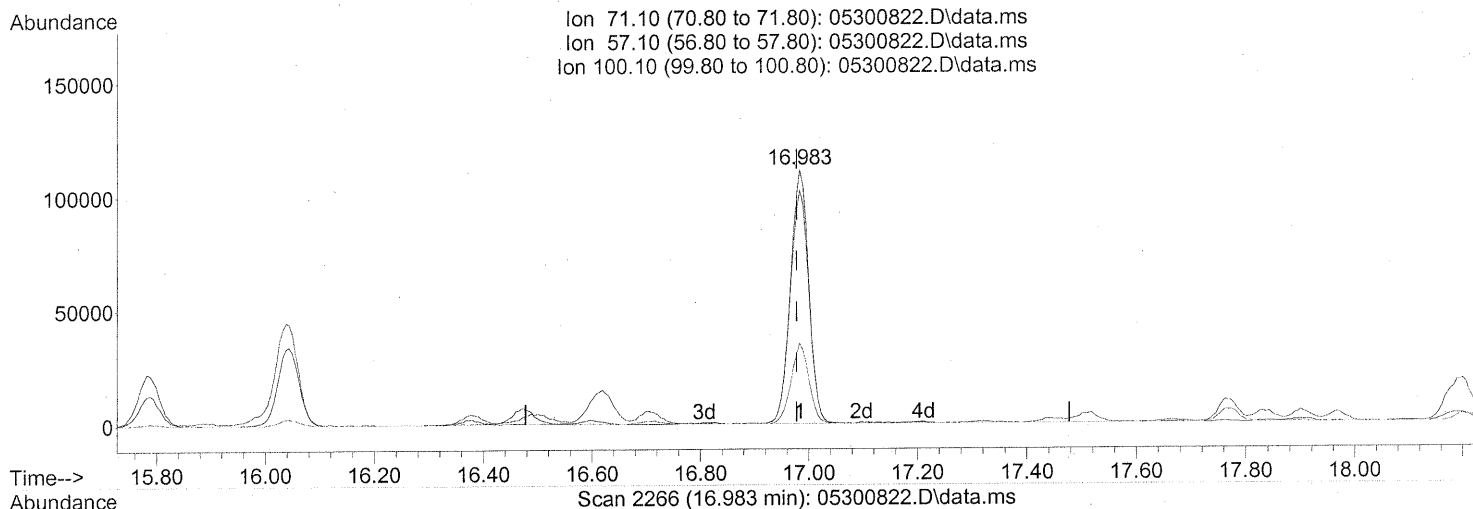
(47) Trichloroethene (T)  
 16.539min (+0.000) 22.84ng  
 response 549335

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.983min (+0.006) 12.58ng

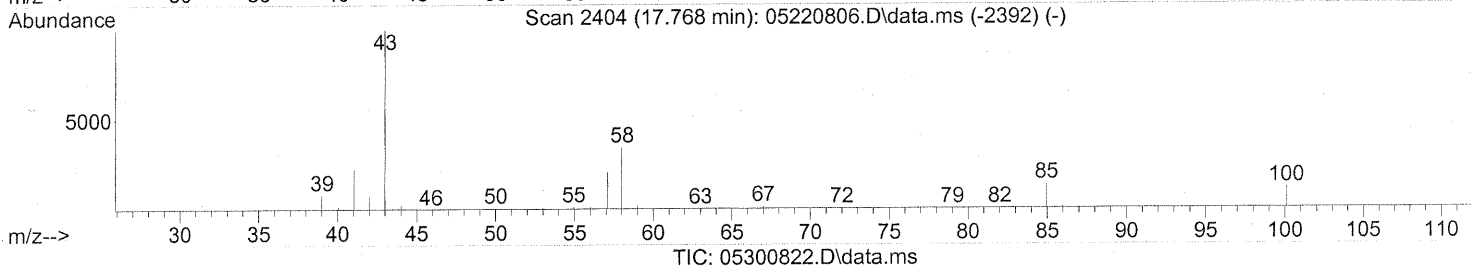
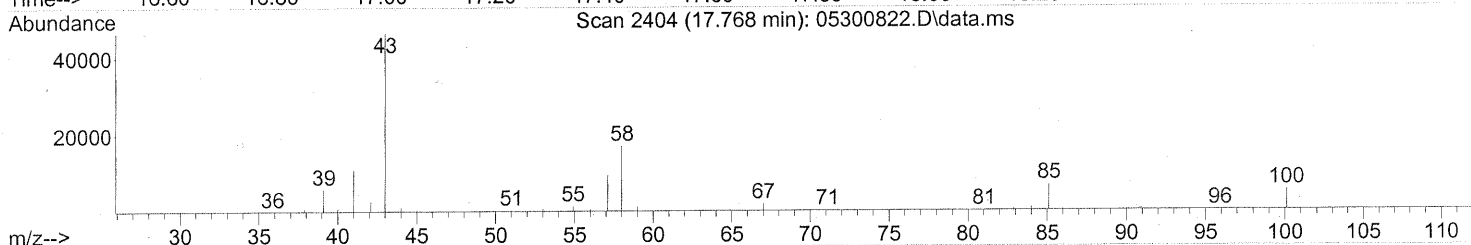
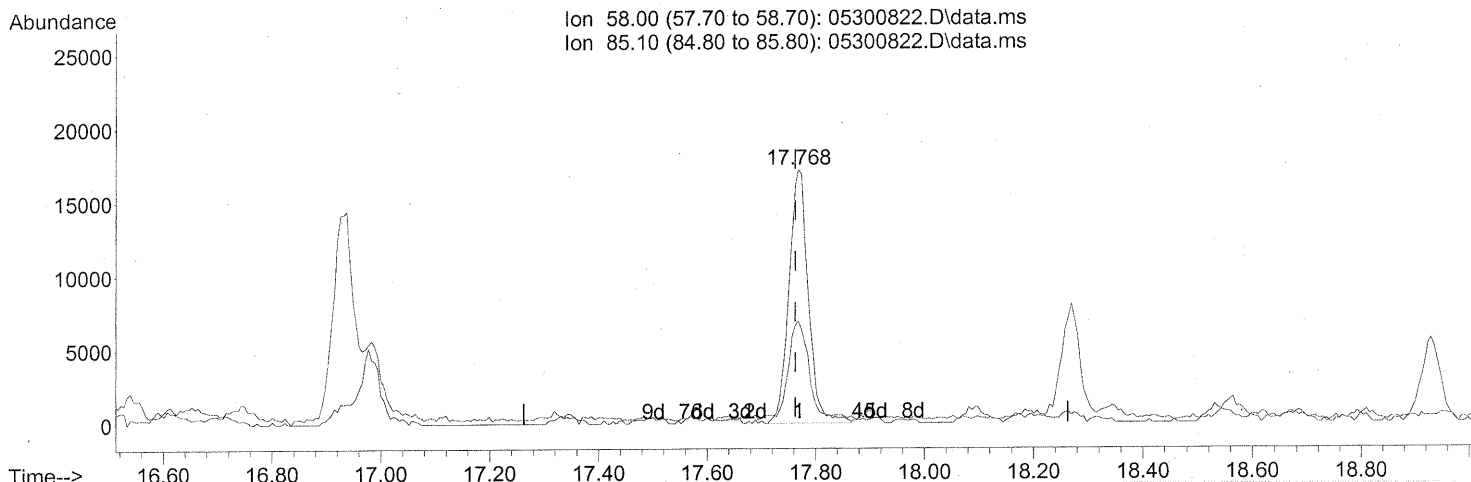
response 262118

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	93.26#
100.10	30.10	30.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.768min (+0.006) 2.04ng

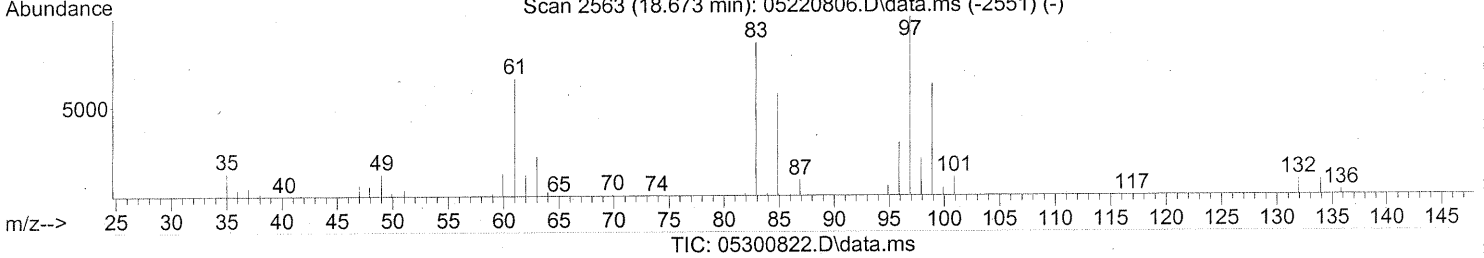
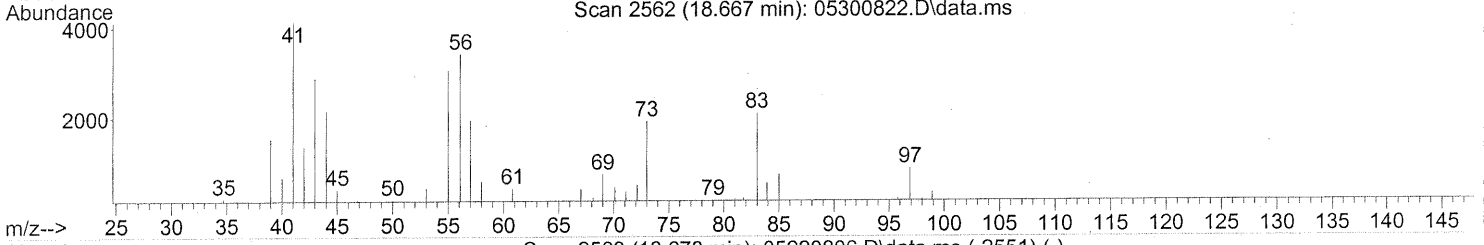
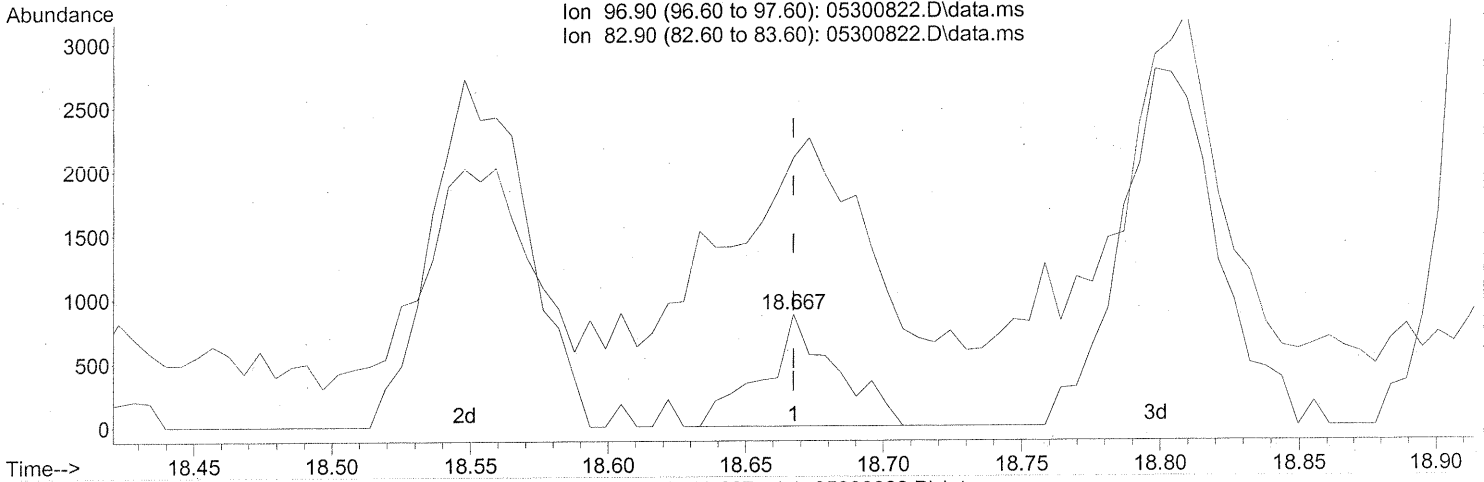
response 42523

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	40.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.667min (+0.000) 0.08ng

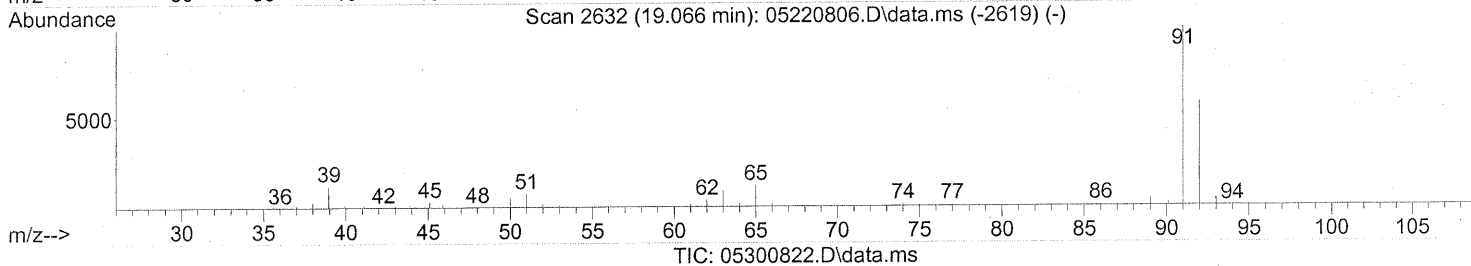
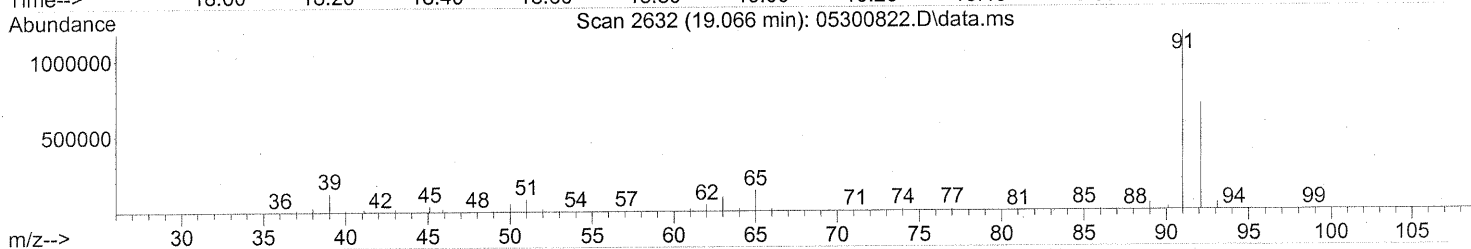
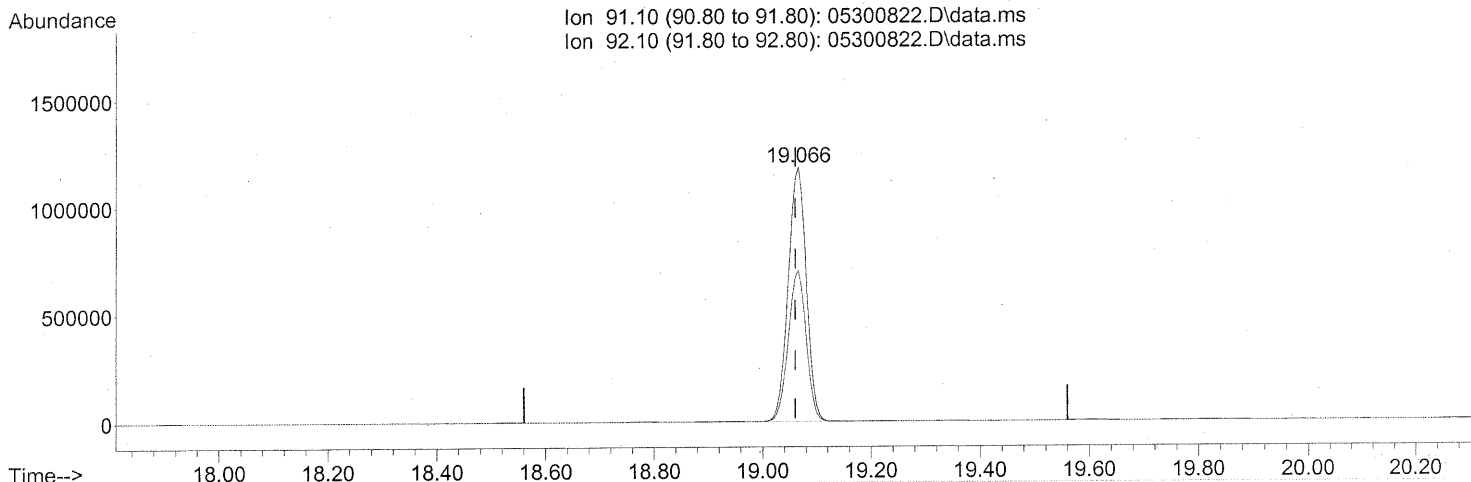
response 1597

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	325.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.066min (+0.006) 32.36ng

response 2740102

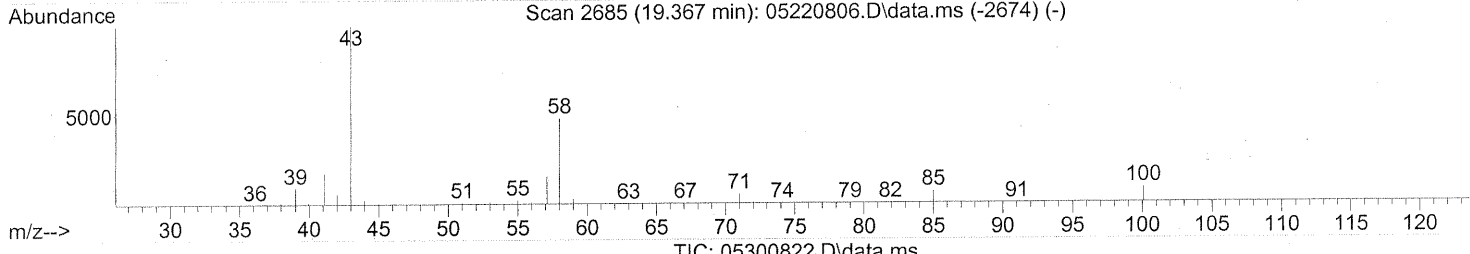
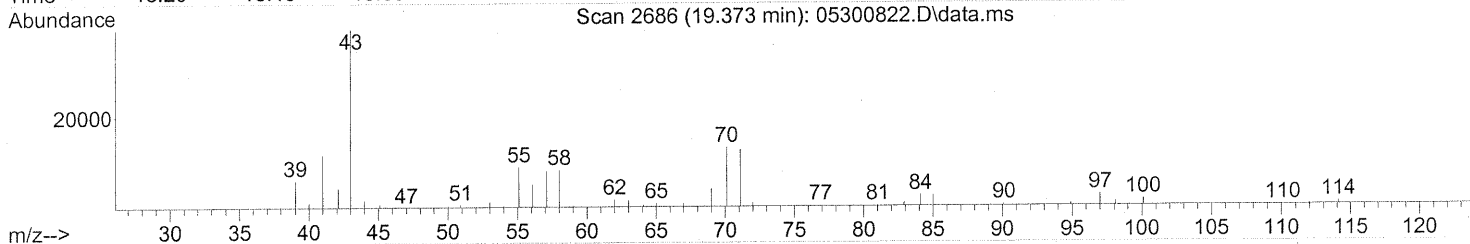
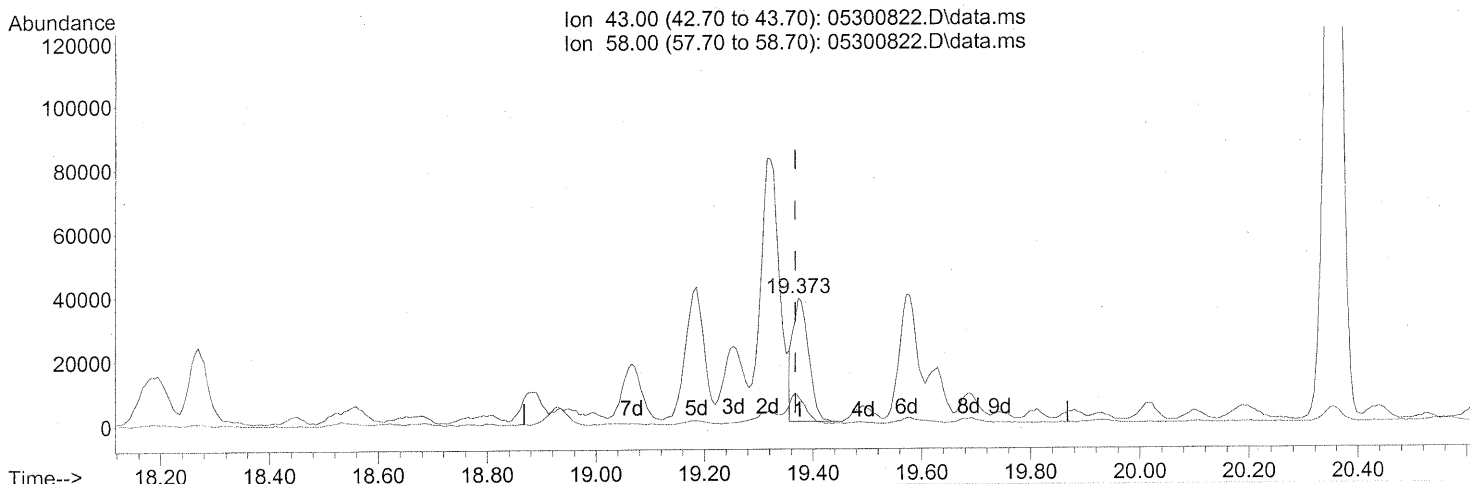
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.77
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



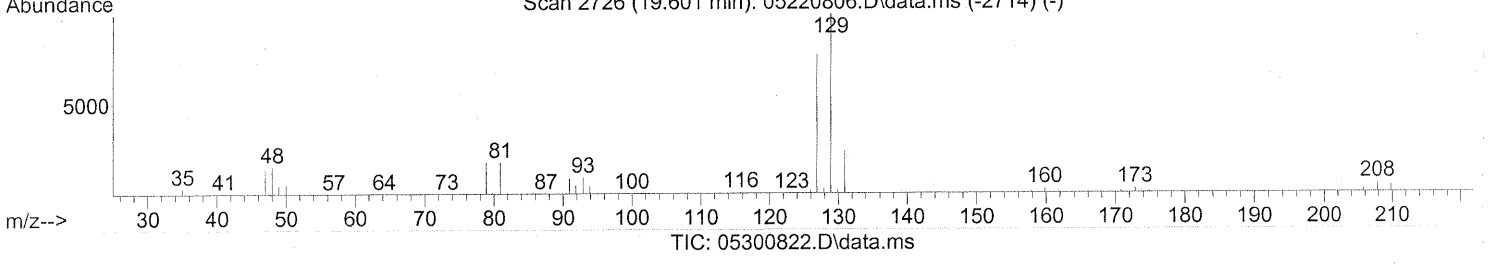
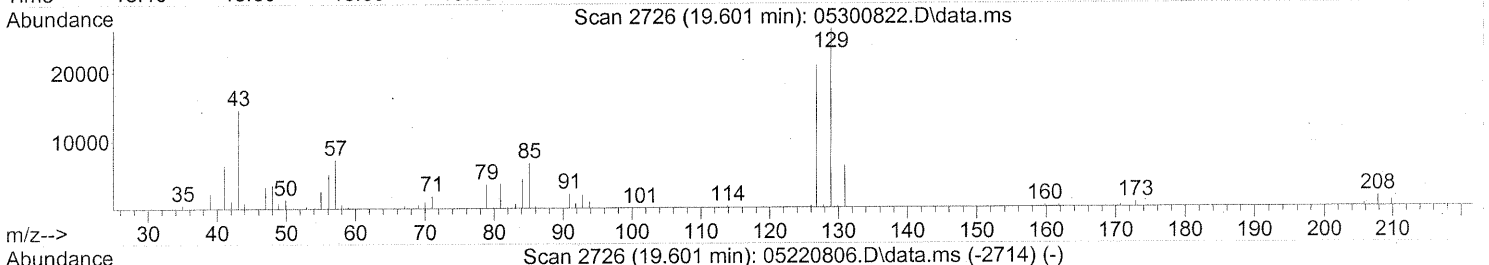
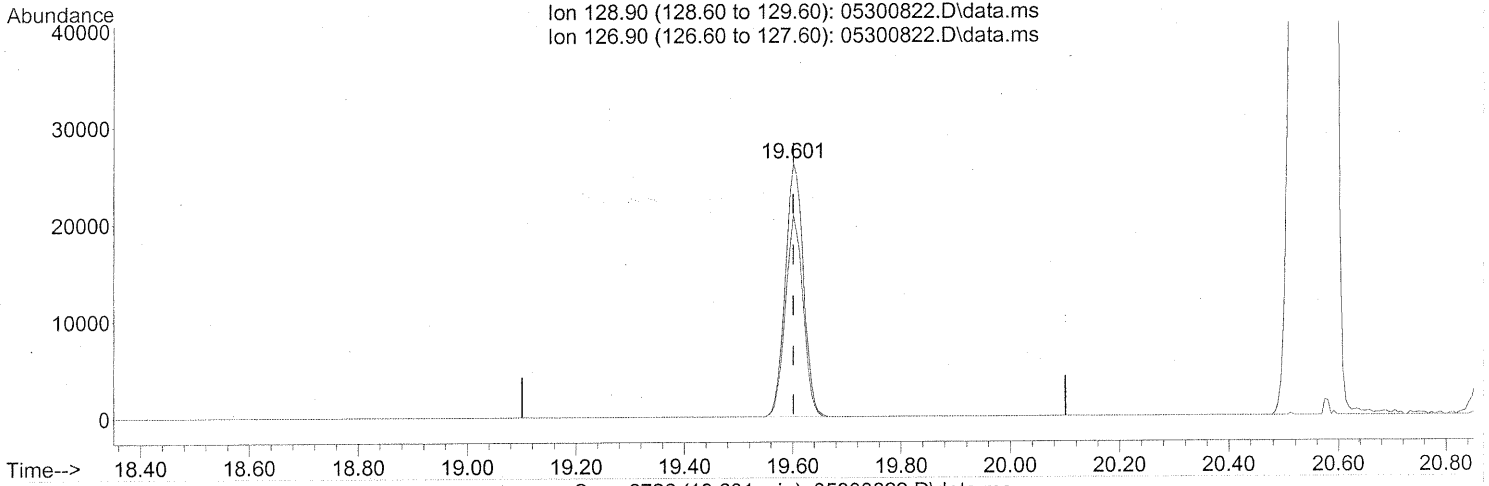
(59) 2-Hexanone (T)  
 19.373min (+0.006) 1.32ng  
 response 76988

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	26.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.601min (+0.000) 2.66ng

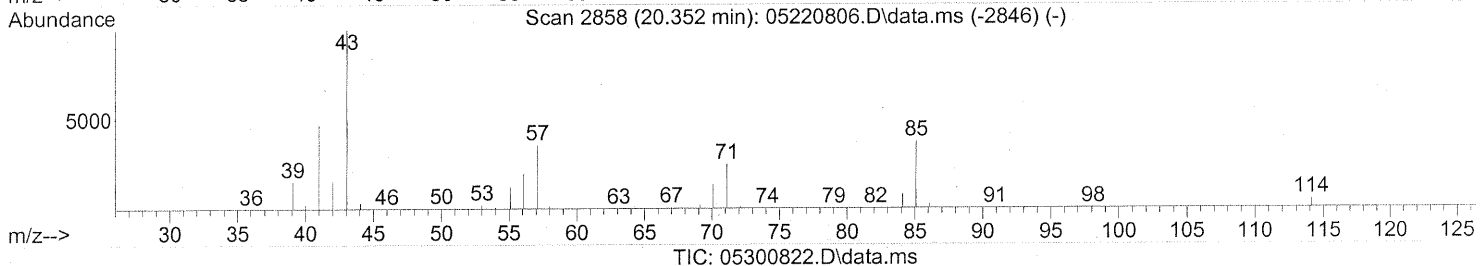
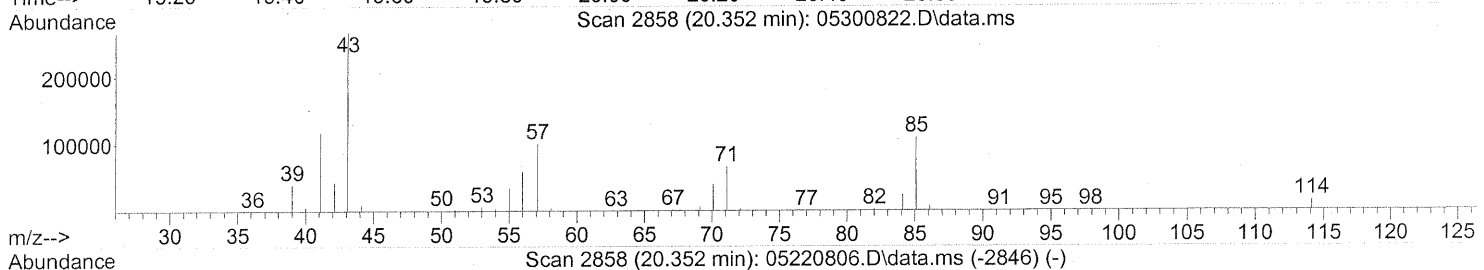
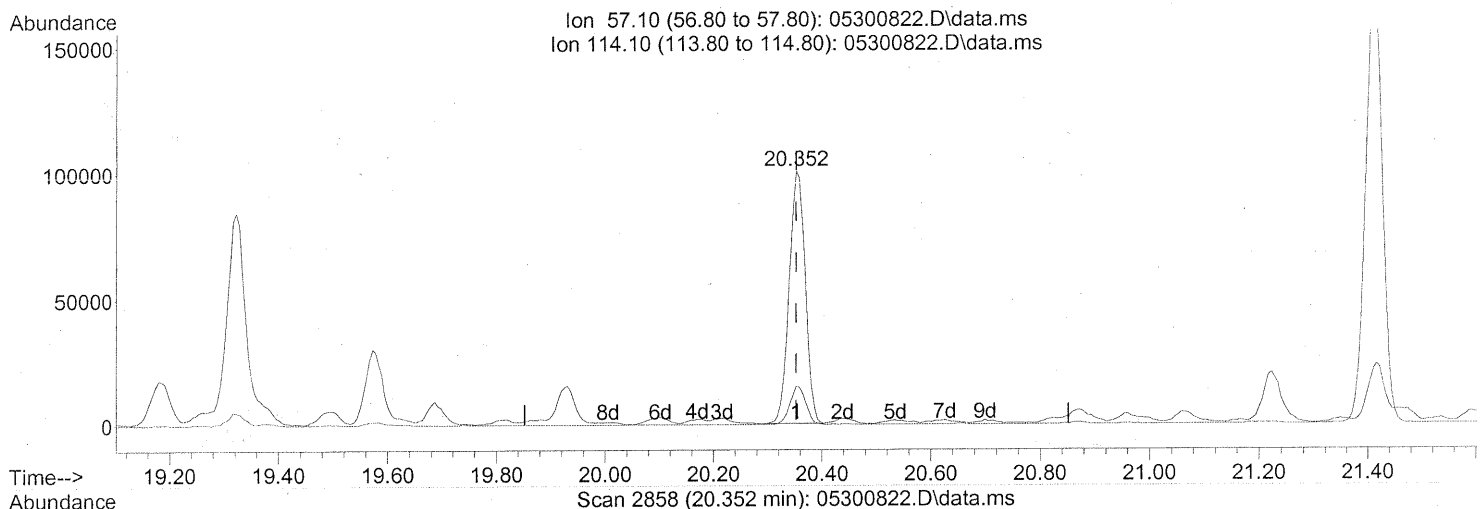
response 60785

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	77.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



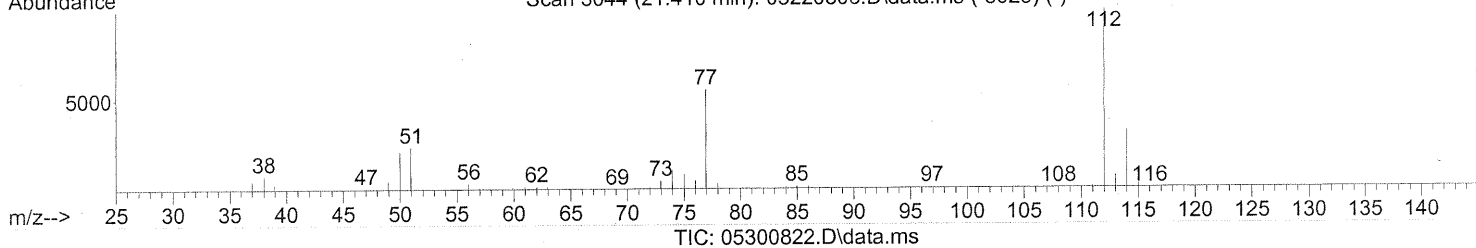
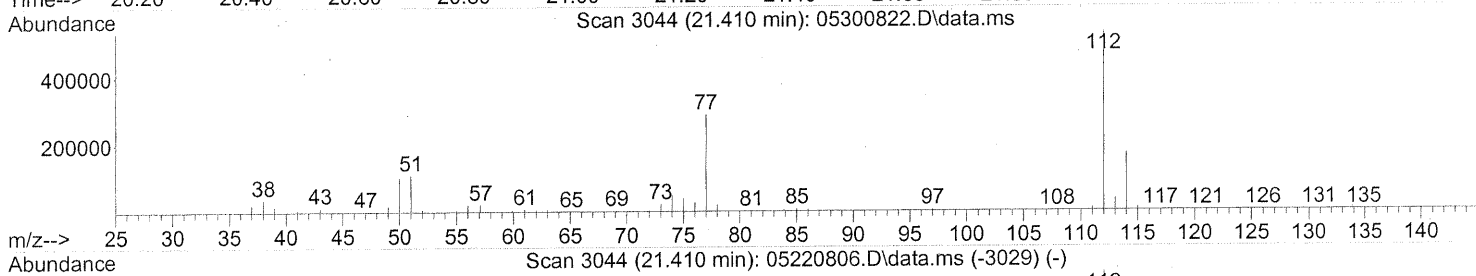
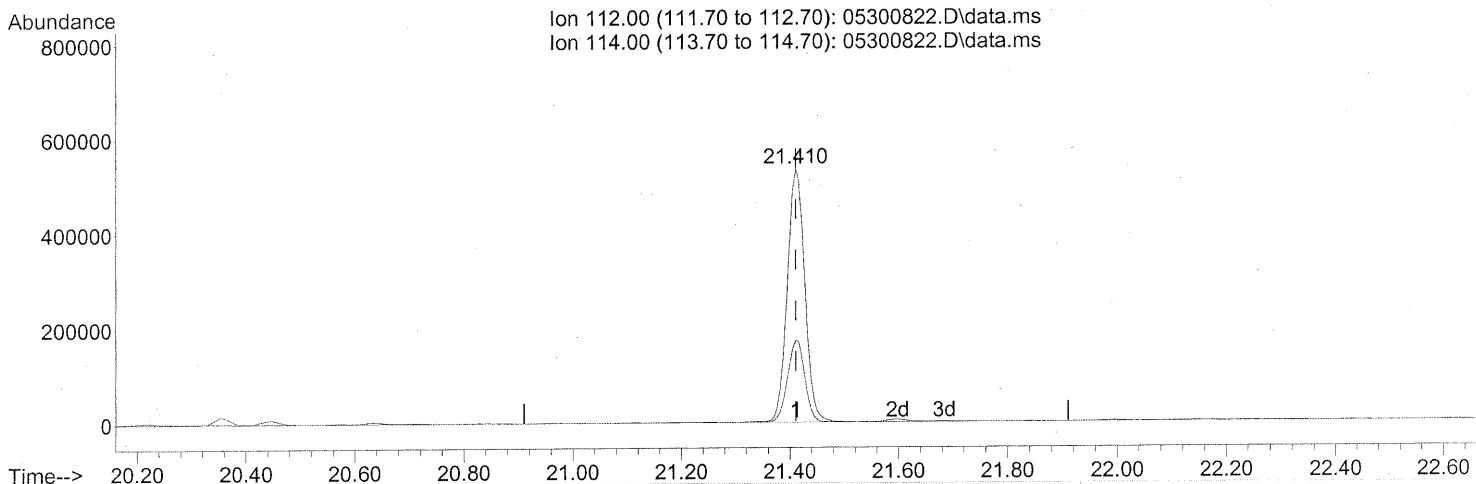
(63) n-Octane (T)  
 20.352min (+0.000) 11.05ng  
 response 206916

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.410min (+0.000) 21.07ng

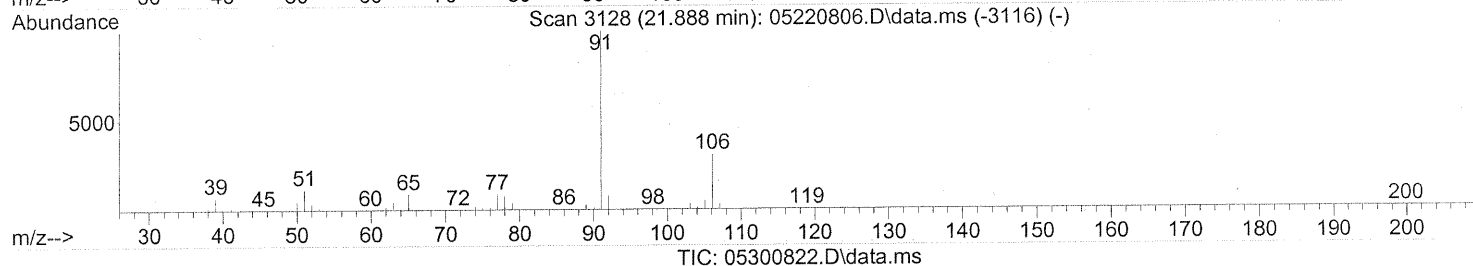
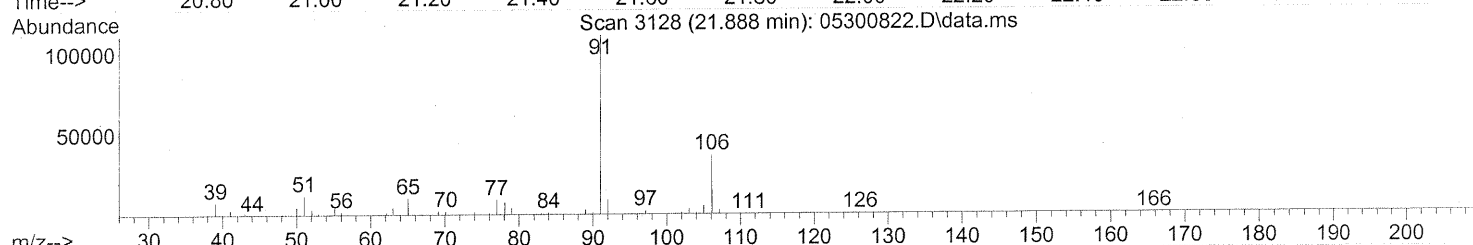
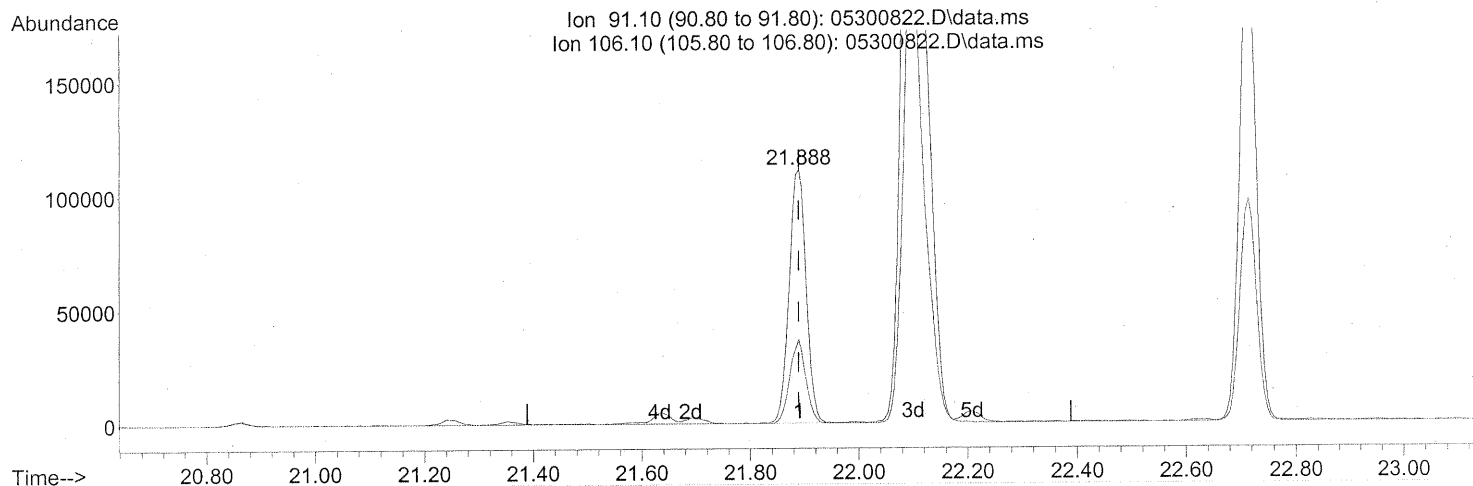
response 1195880

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



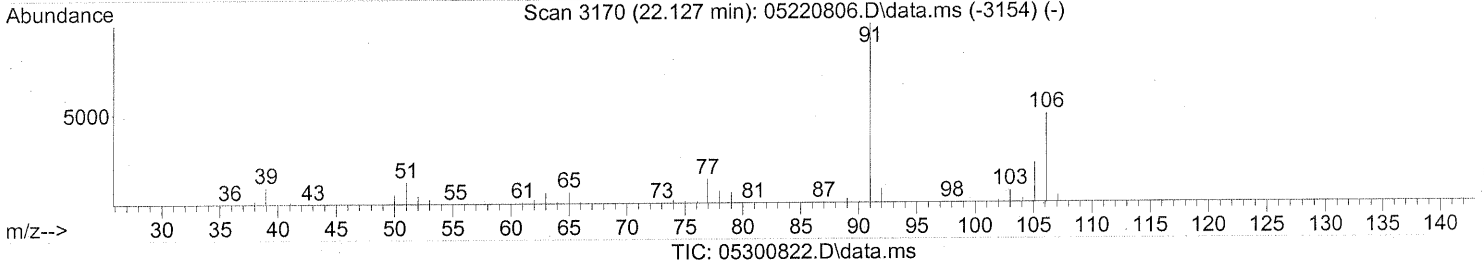
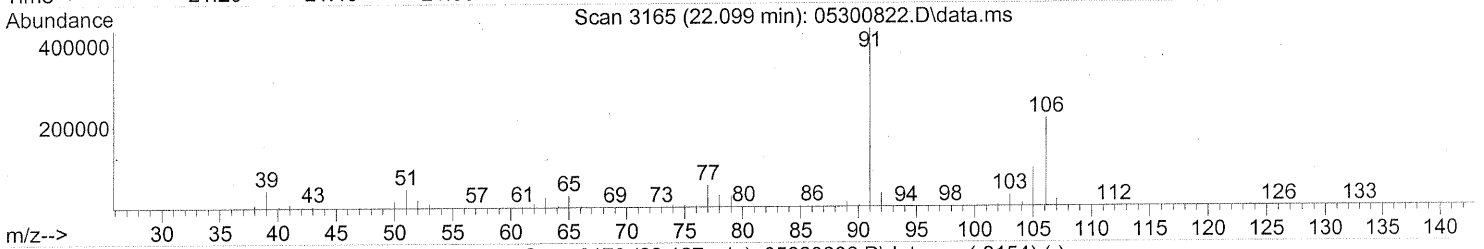
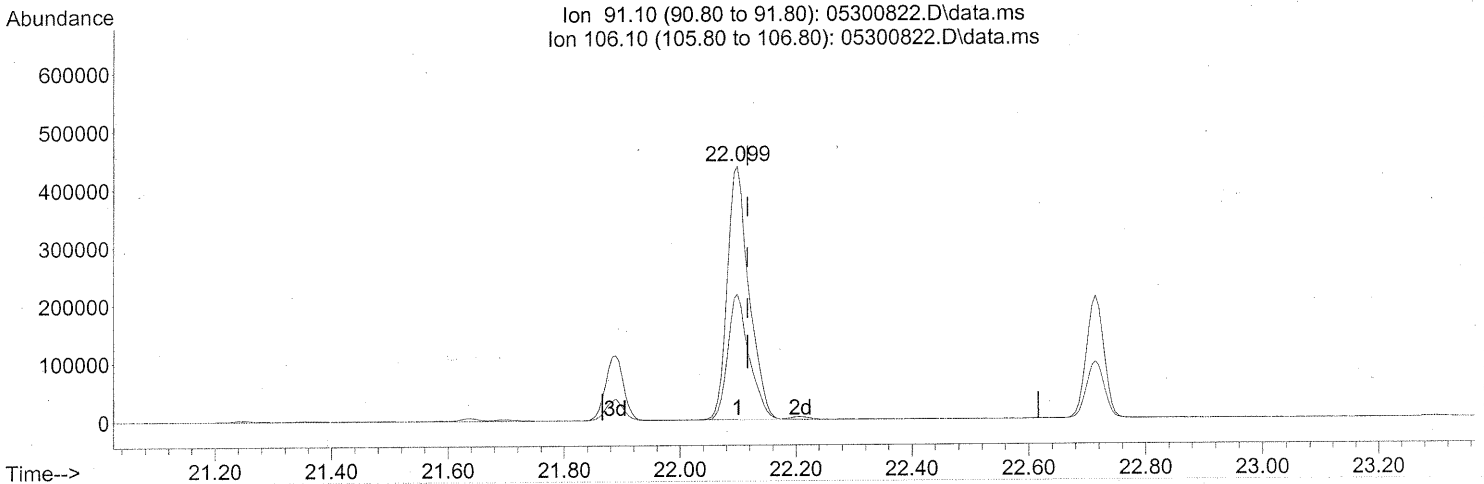
(66) Ethylbenzene (T)  
 21.888min (+0.000) 2.48ng  
 response 240737

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



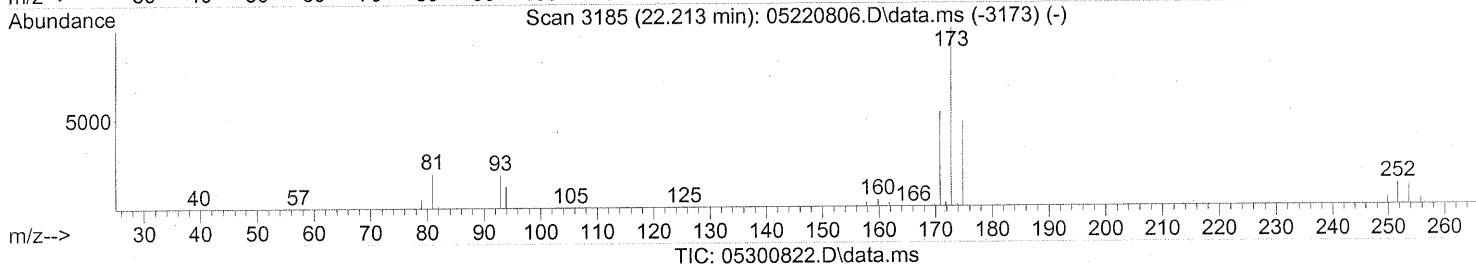
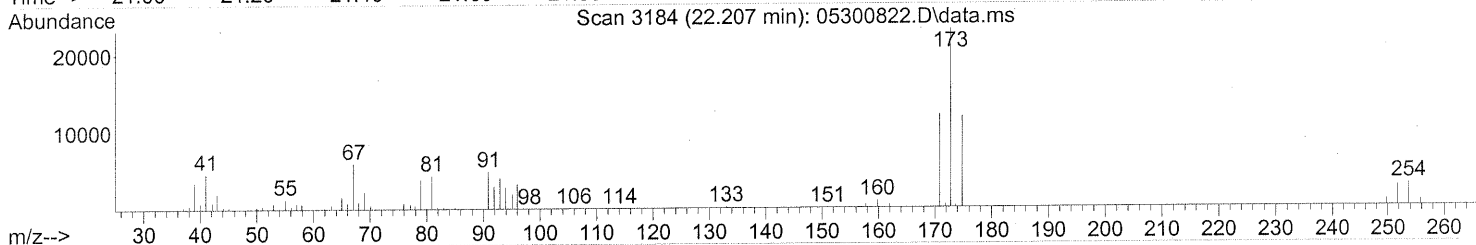
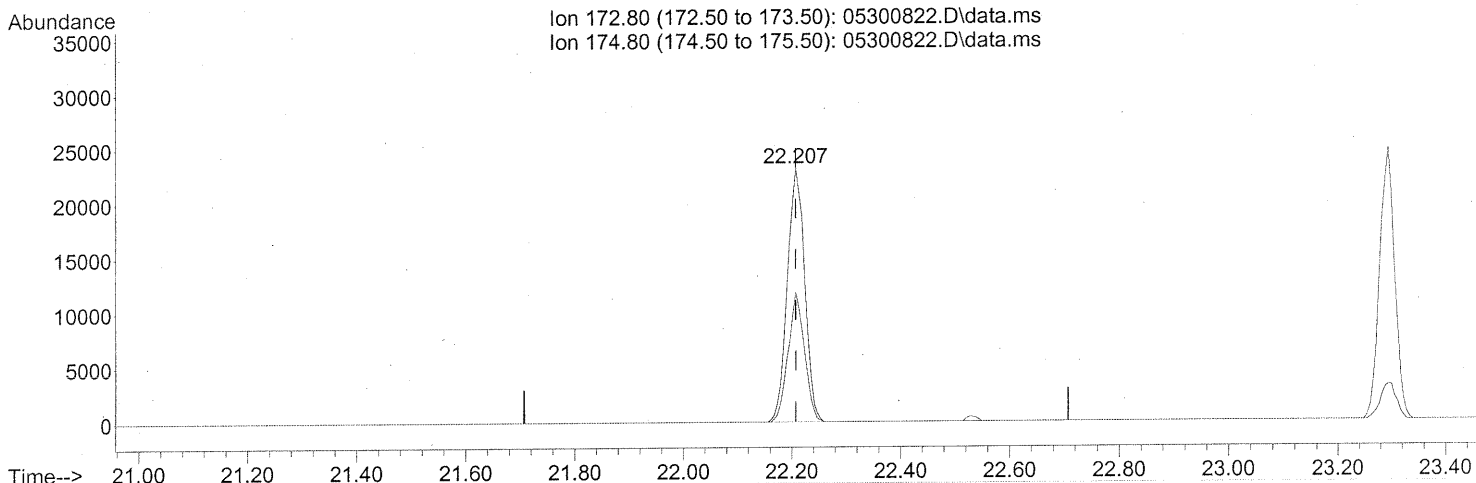
(67) m- & p-Xylene (T)  
 22.099min (-0.017) 17.45ng  
 response 1133550

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(68) Bromoform (T)

22.207min (+0.000) 3.00ng

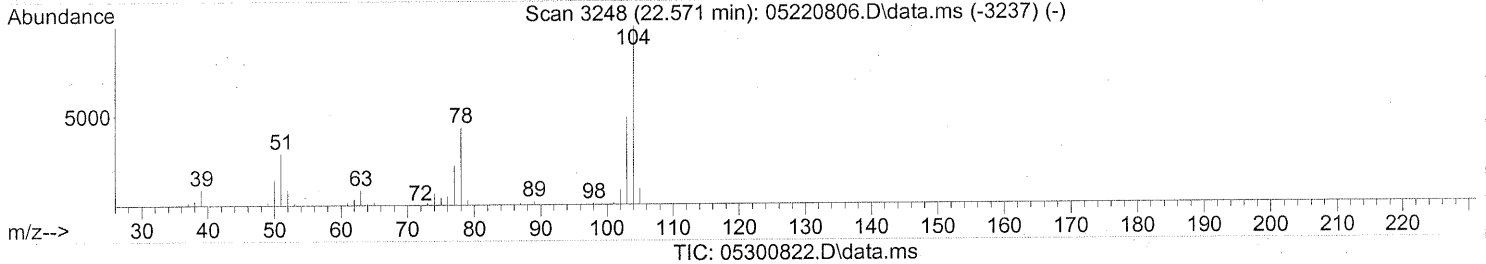
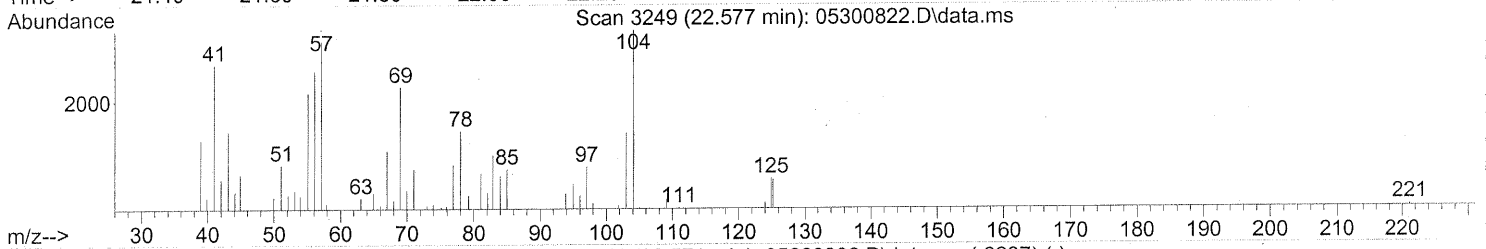
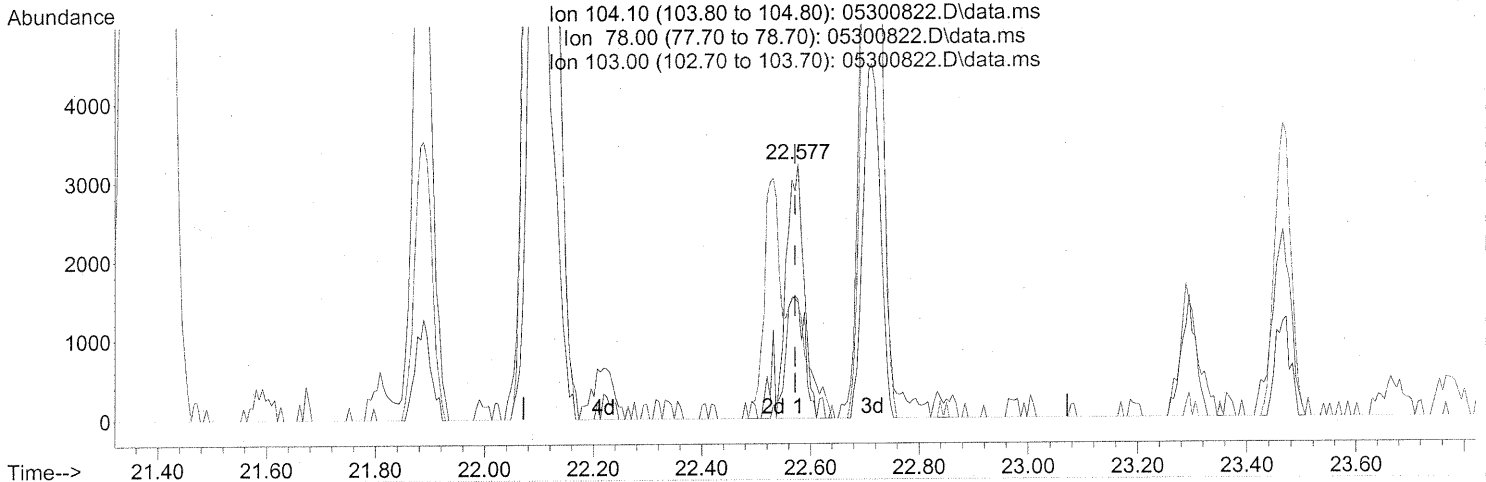
response 51078

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	48.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)  
 22.577min (+0.006) 0.12ng  
 response 7009

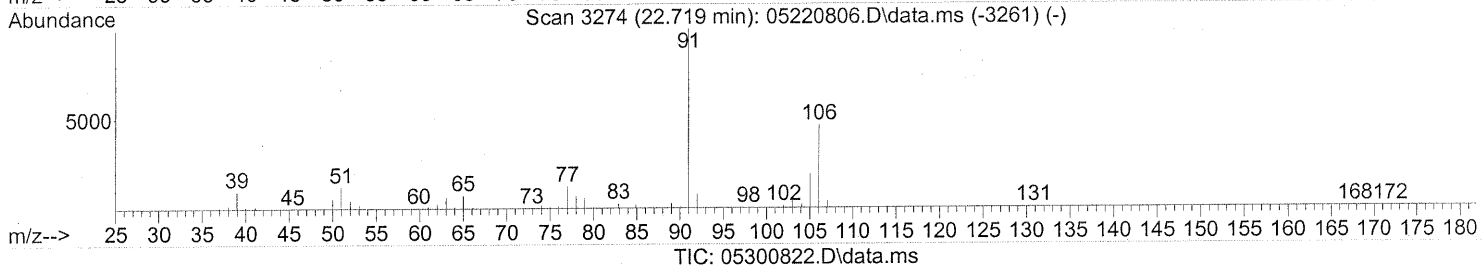
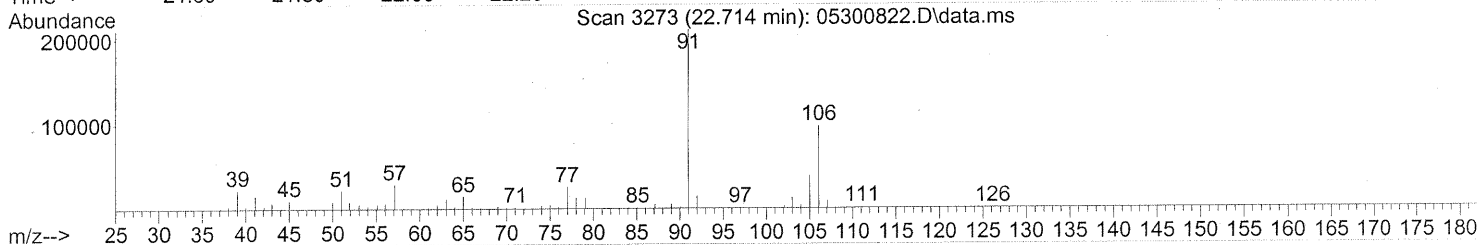
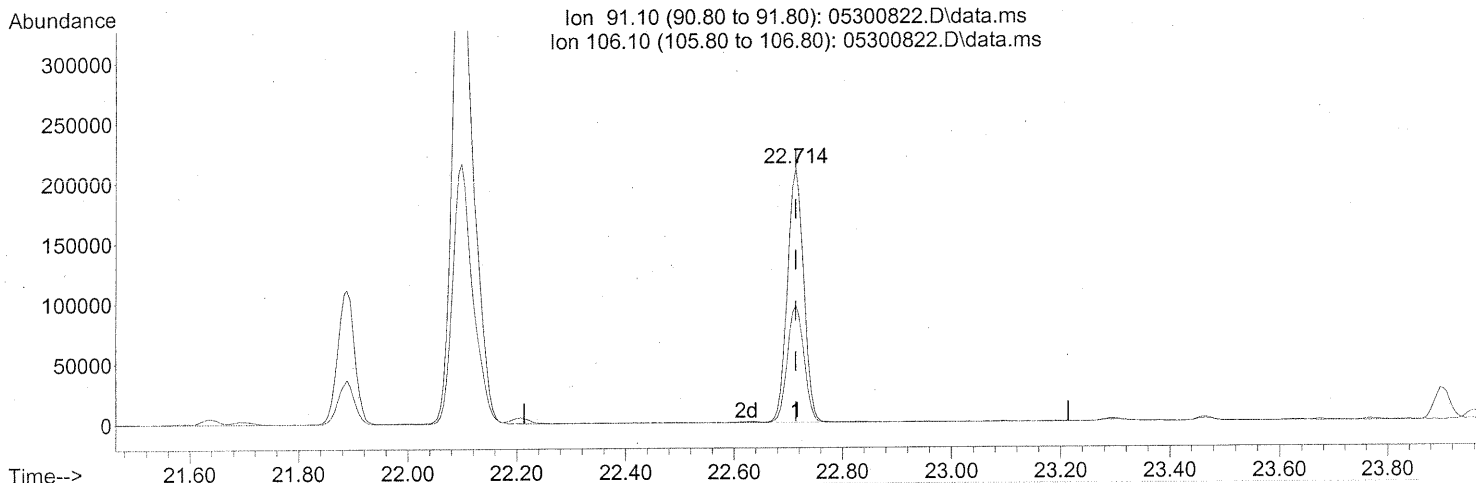
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	53.03
103.00	47.10	0.00#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



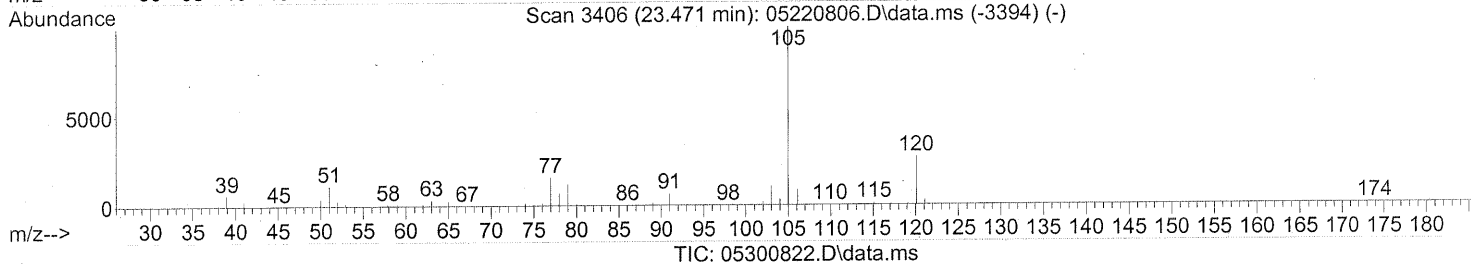
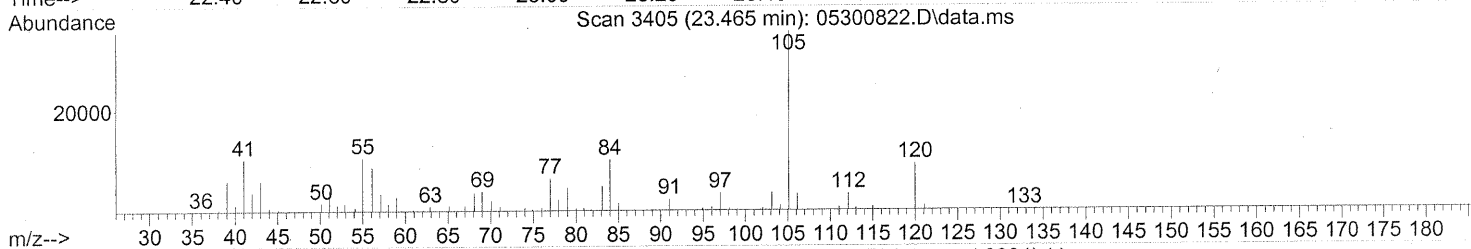
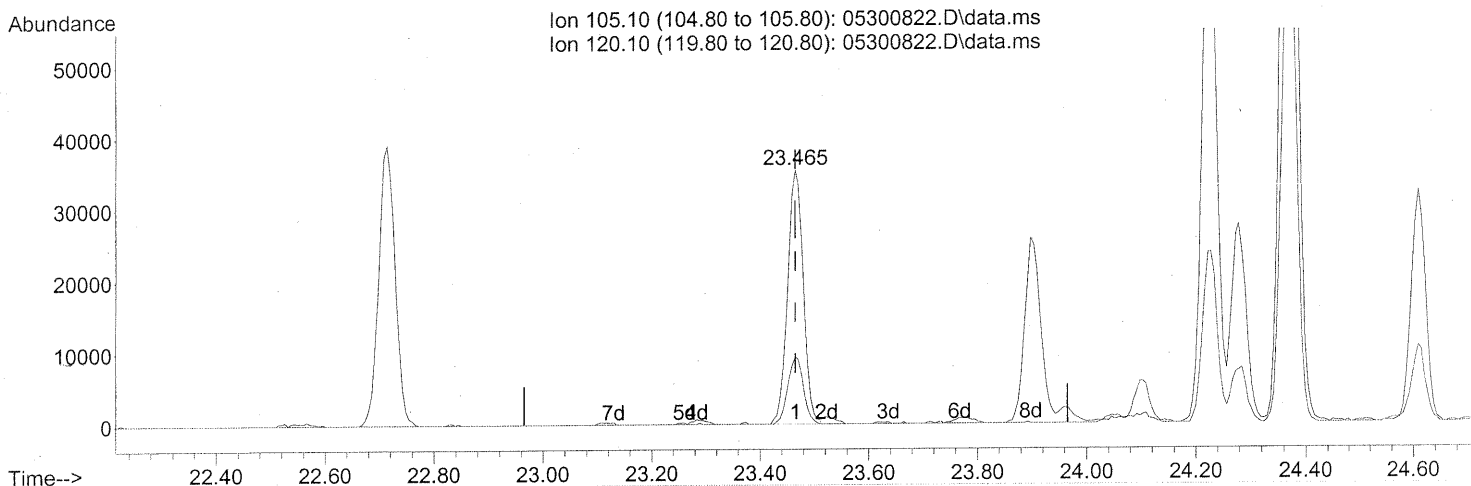
(70) o-Xylene (T)  
 22.714min (+0.000) 6.32ng  
 response 443324

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



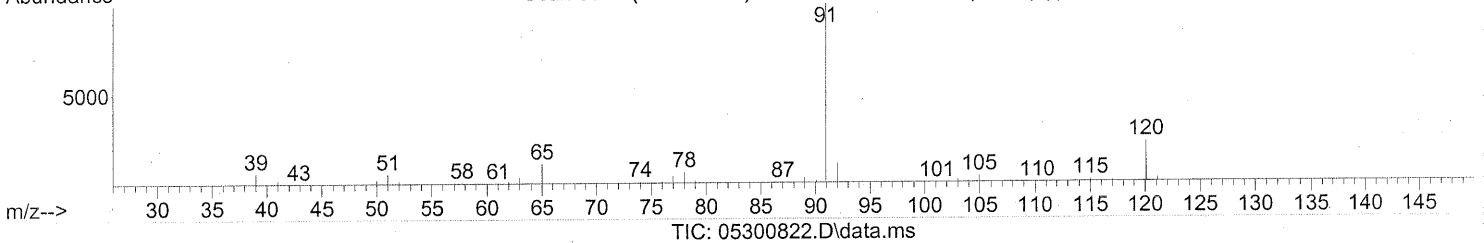
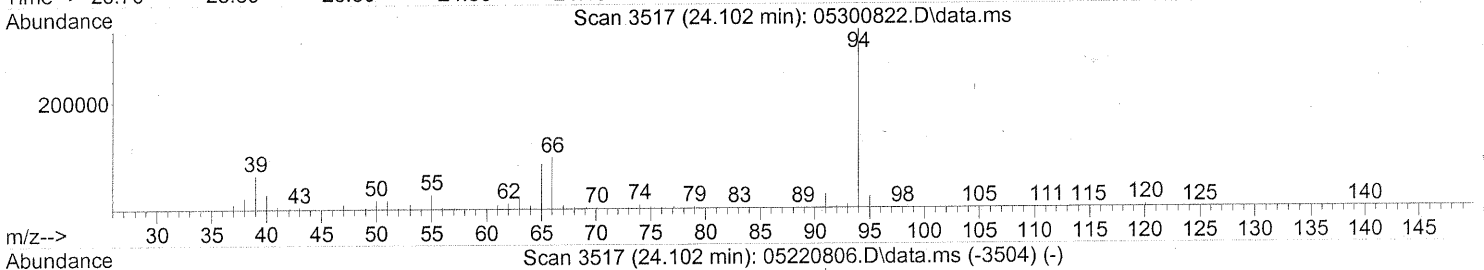
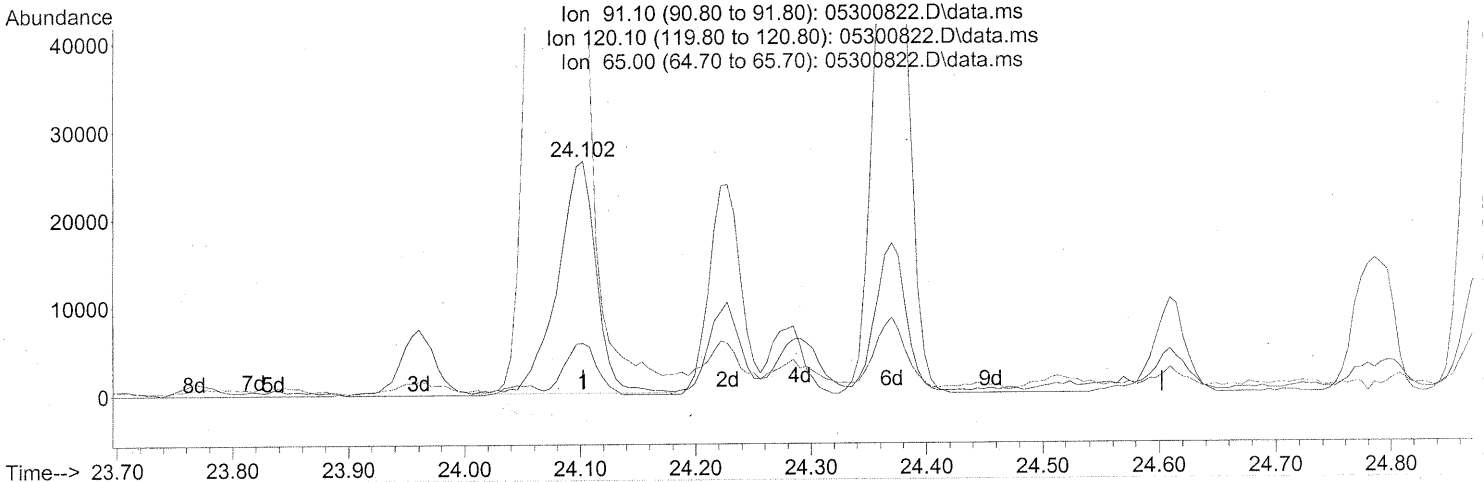
(74) Cumene (T)  
 23.465min (+0.000) 0.76ng  
 response 71292

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	26.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (+0.000) 0.52ng  
 response 61362

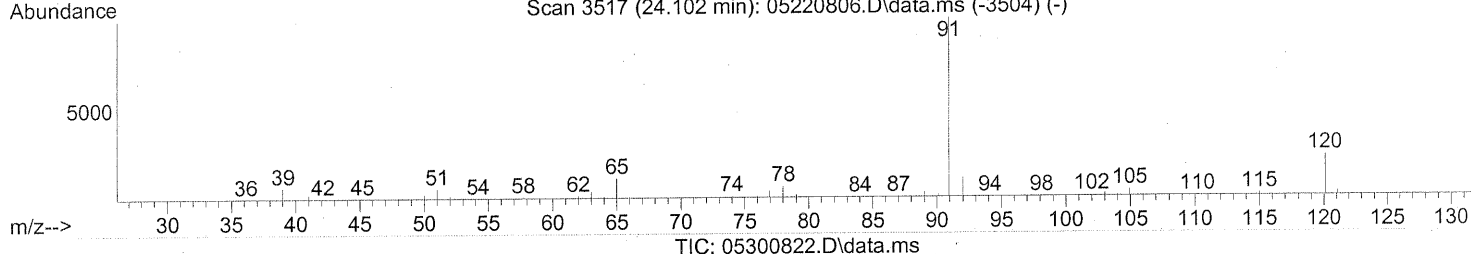
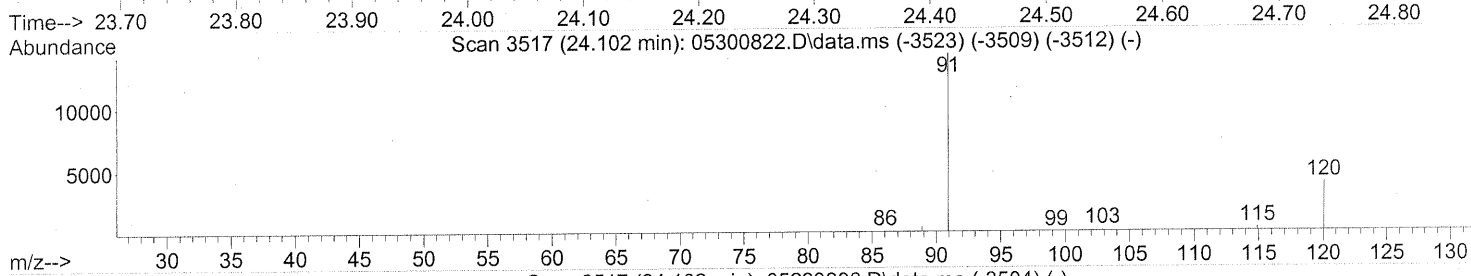
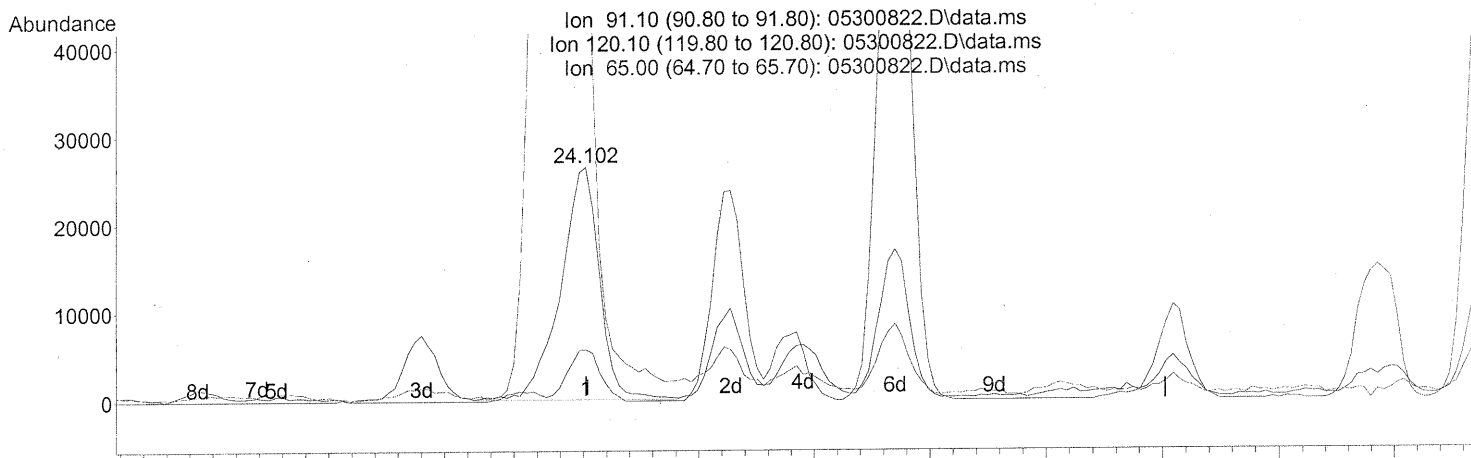
**BEFORE SUBTRACTION**

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.58
65.00	11.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (+0.000) 0.52ng

response 61362

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.58
65.00	11.40	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

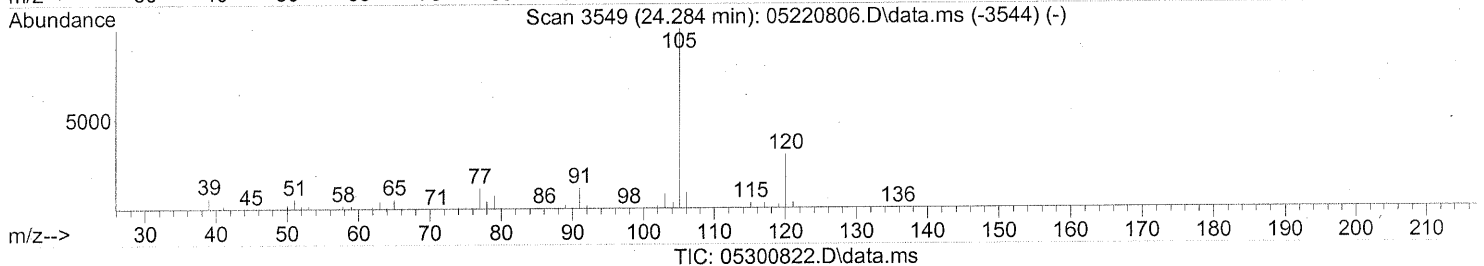
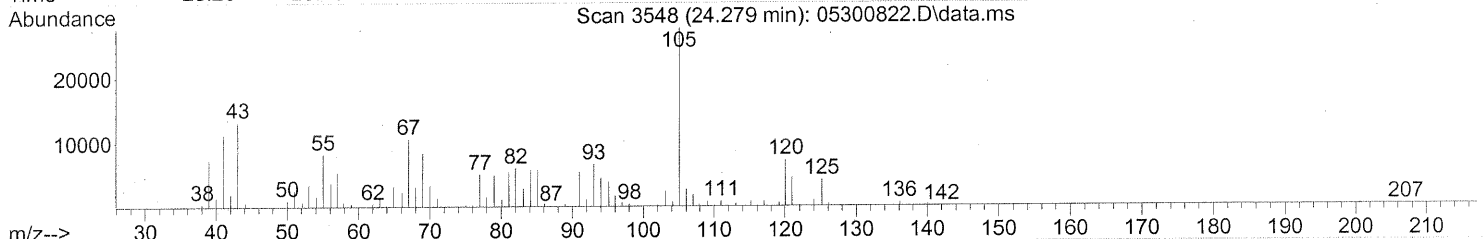
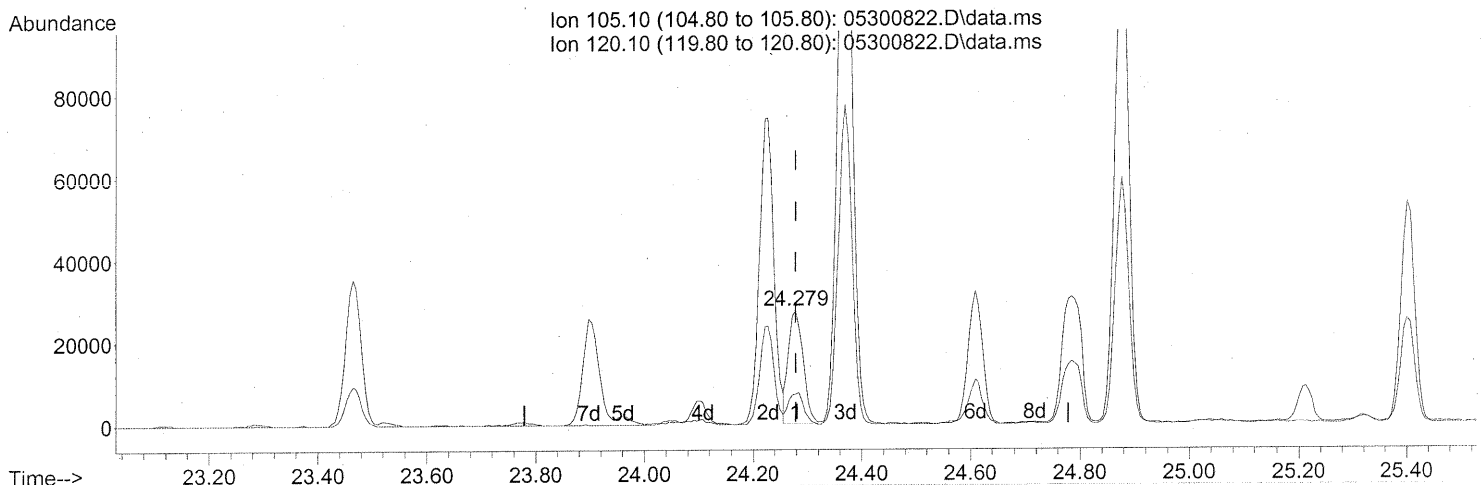
Fed/5/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



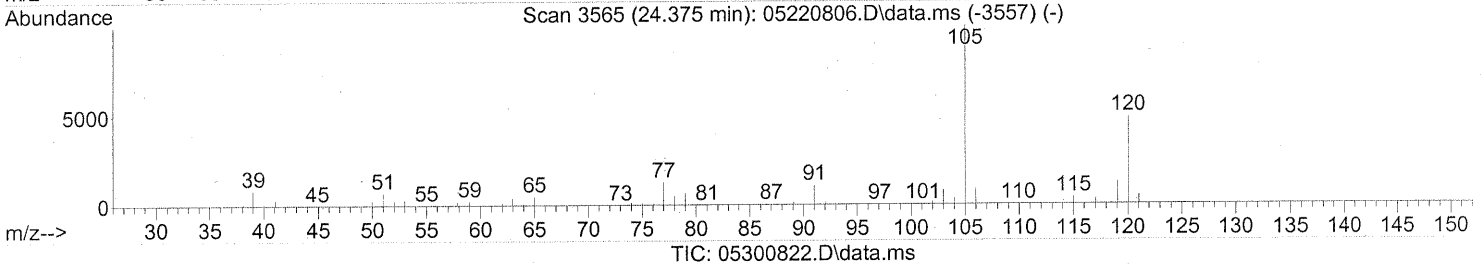
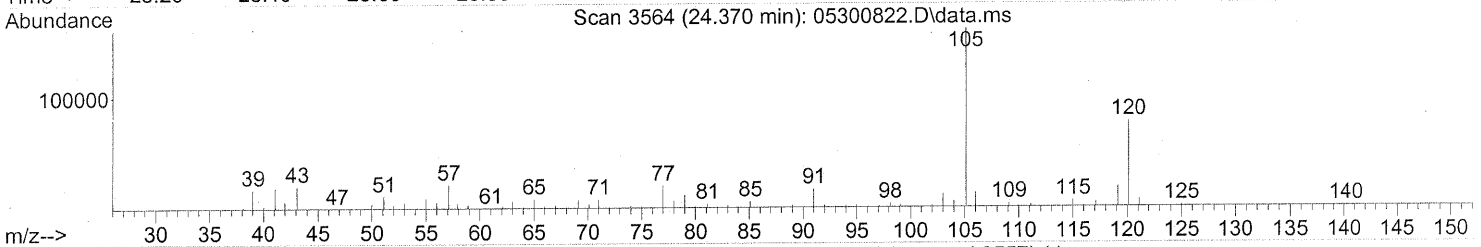
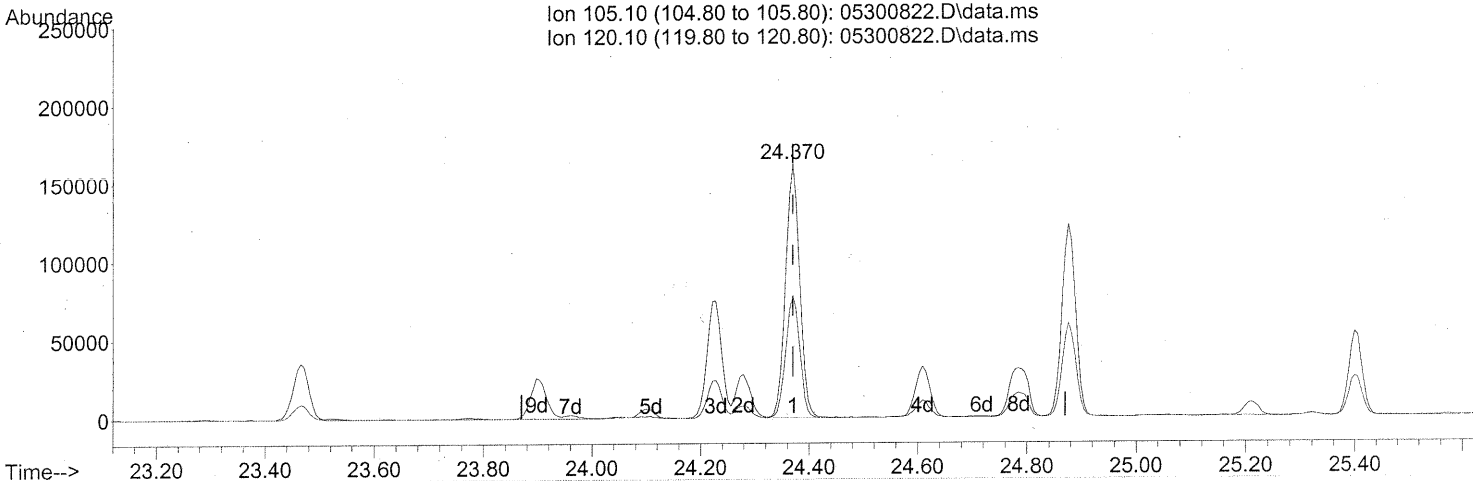
(78) 4-Ethyltoluene (T)  
 24.279min (+0.000) 0.54ng  
 response 50187

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	28.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00 am  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

24.370min (+0.000) 3.48ng

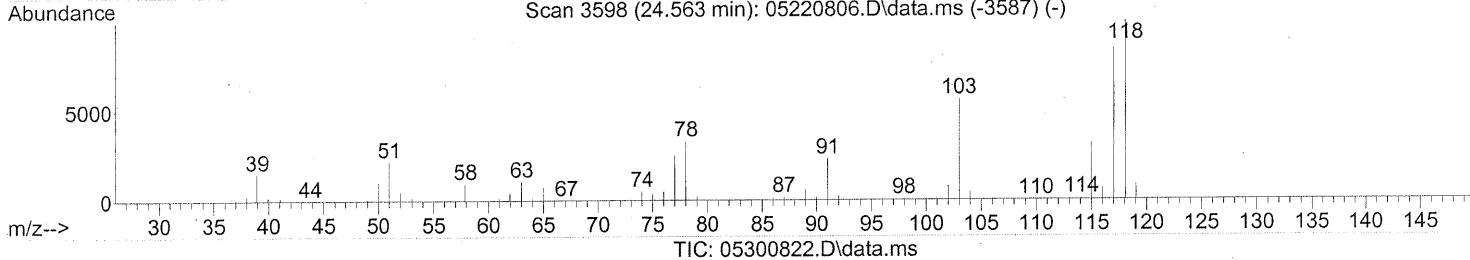
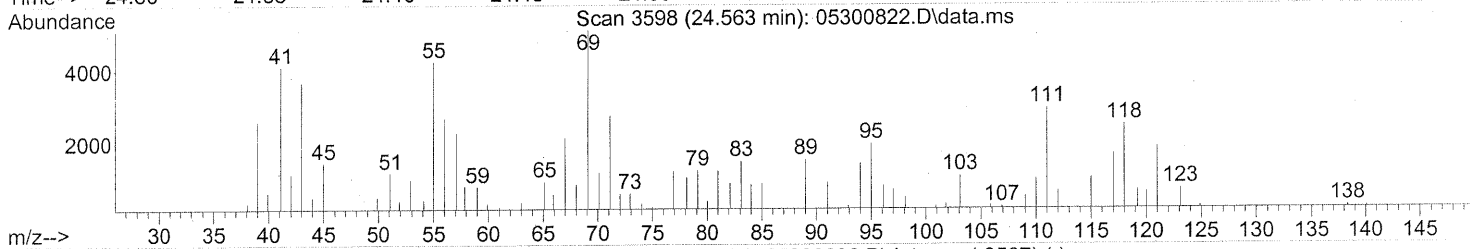
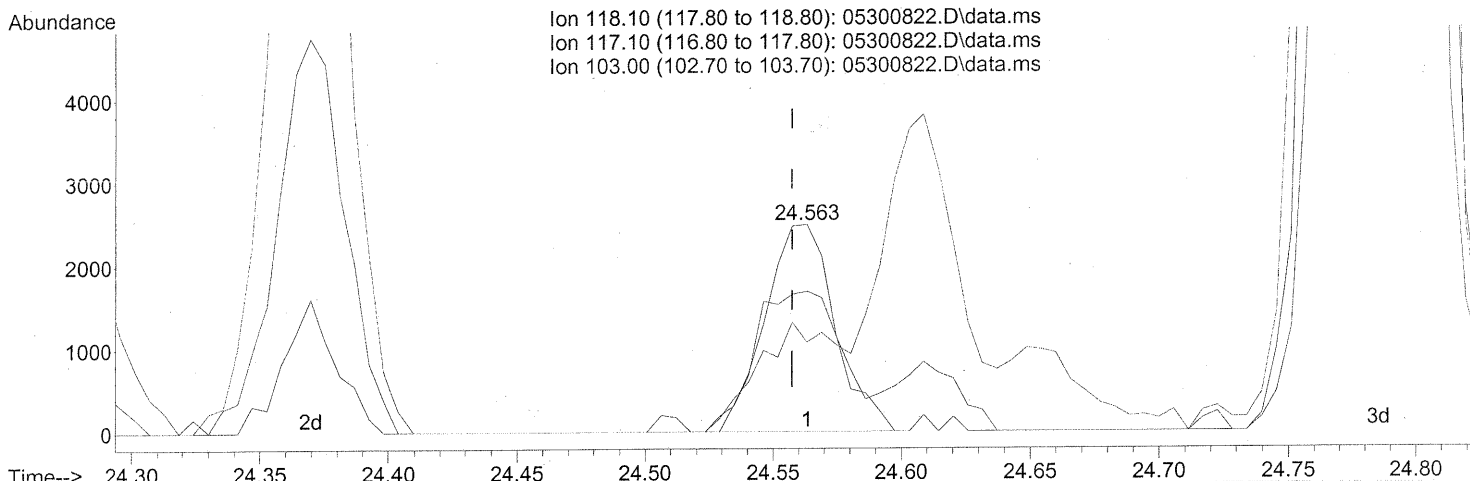
response 291643

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	47.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4691

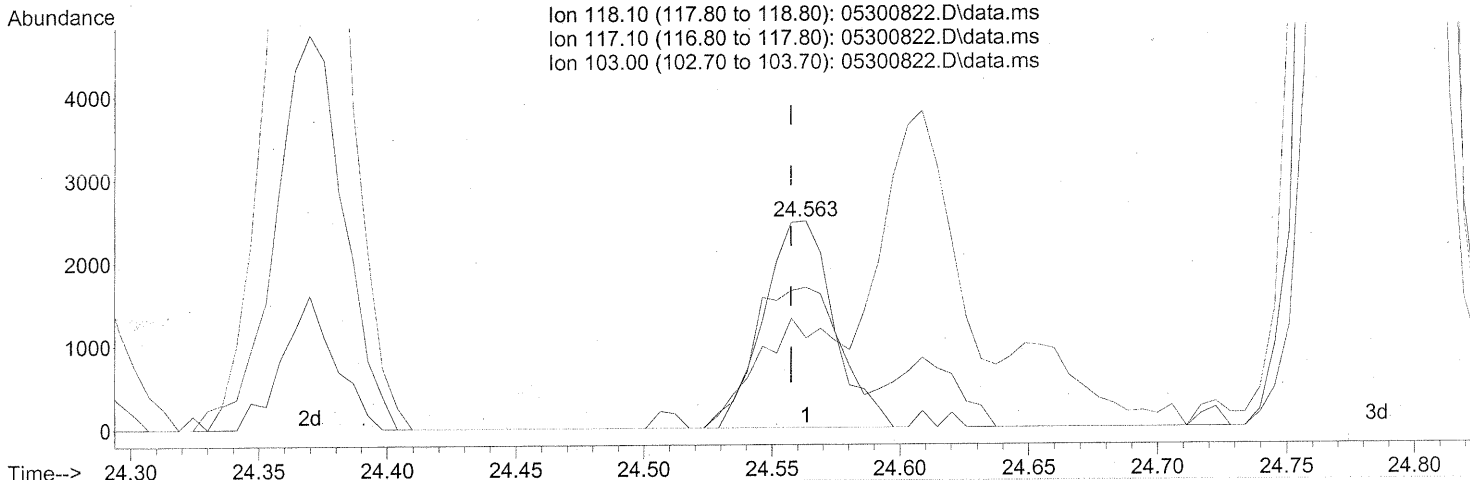
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	86.80
103.00	55.30	62.29
0.00	0.00	0.00

BEFORE SUBTRACTION

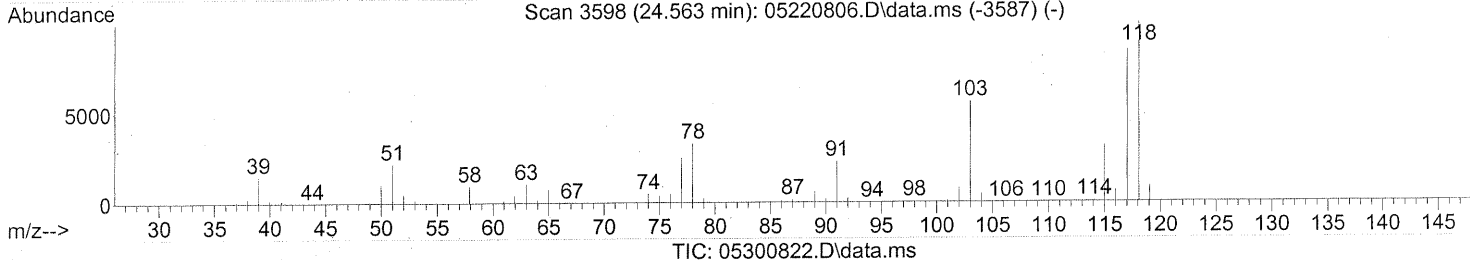
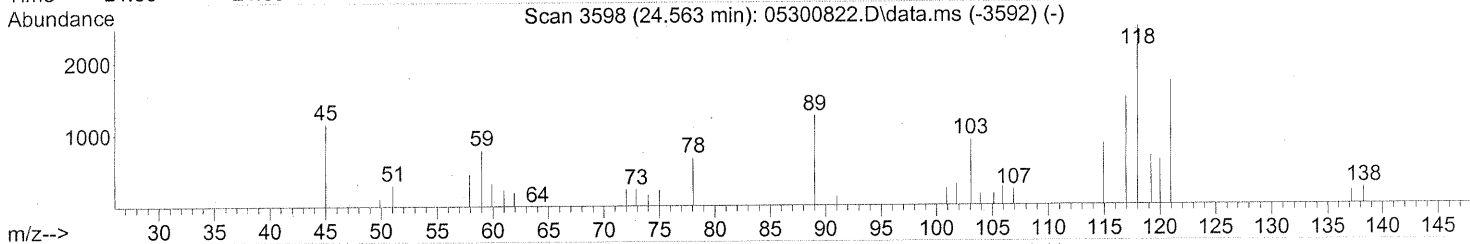
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 118.10 (117.80 to 118.80): 05300822.D\data.ms  
 Ion 117.10 (116.80 to 117.80): 05300822.D\data.ms  
 Ion 103.00 (102.70 to 103.70): 05300822.D\data.ms



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4691

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	86.80
103.00	55.30	62.29
0.00	0.00	0.00

AFTER SUBTRACTION

2006/05/08

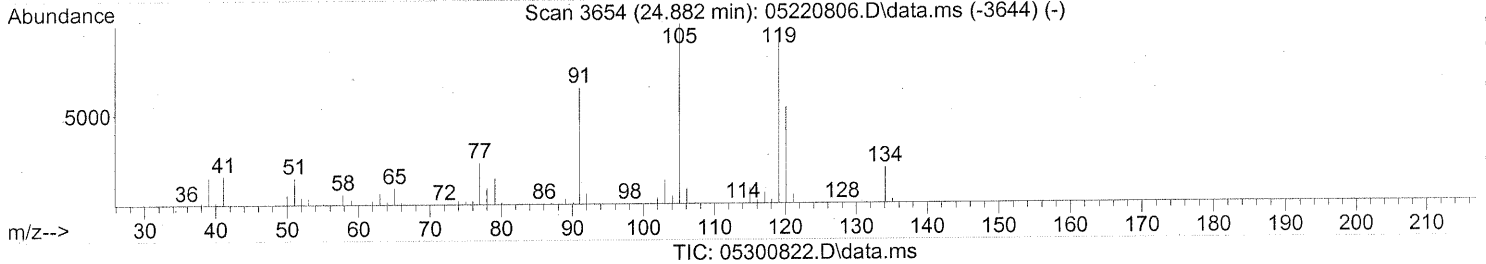
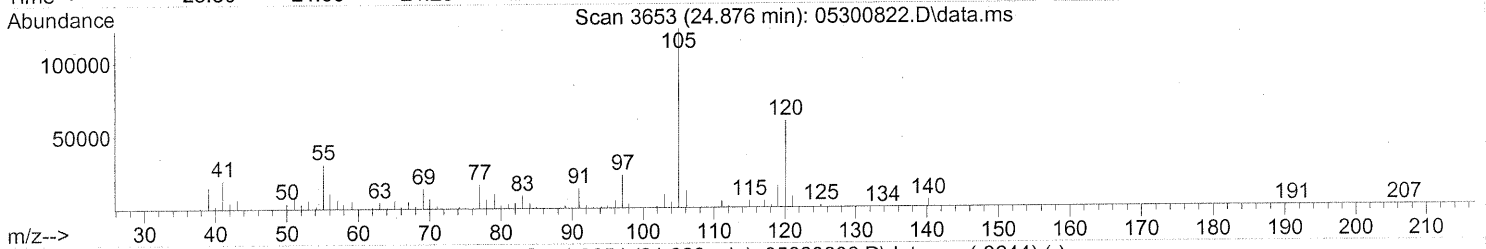
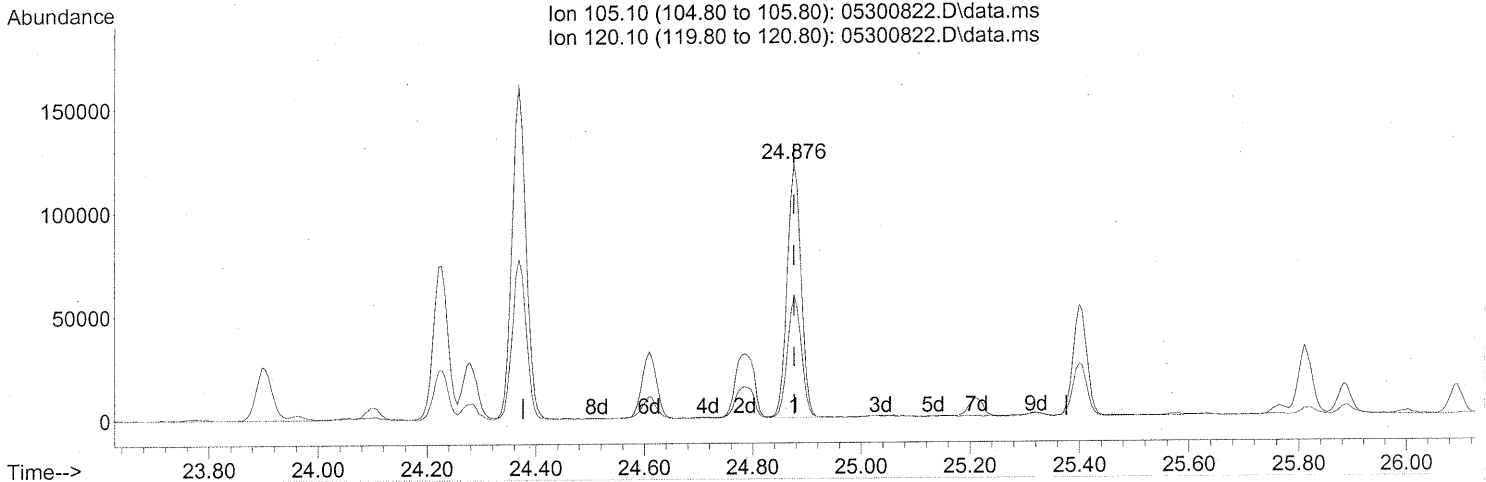
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (+0.000) 2.58ng

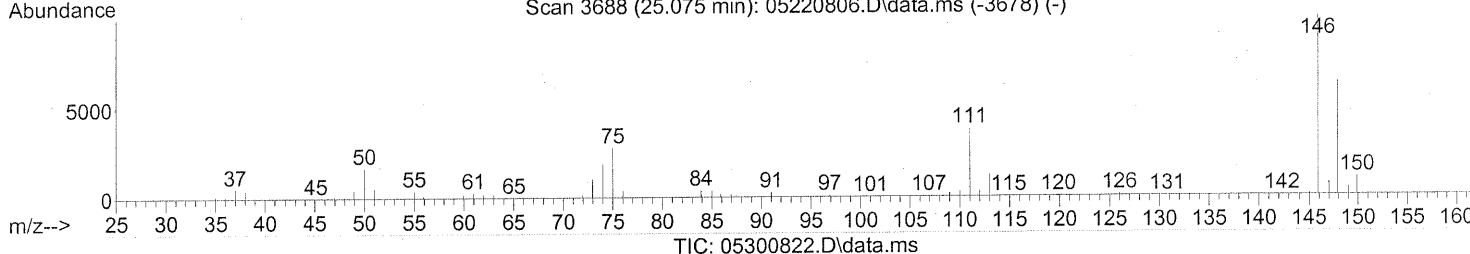
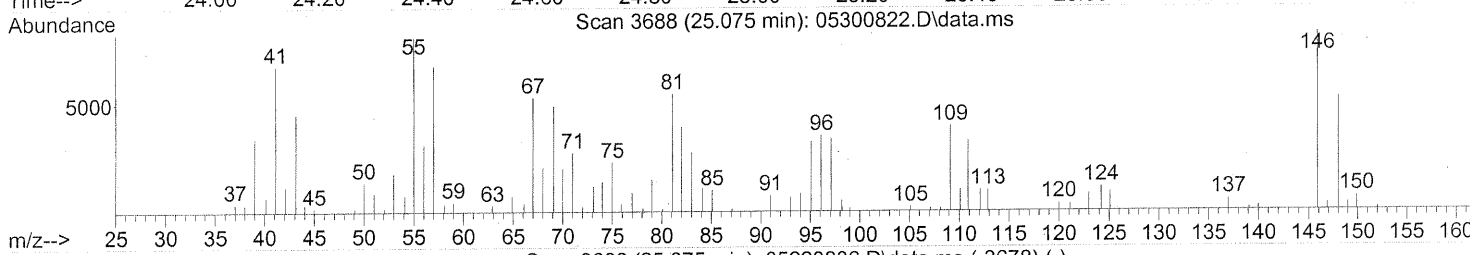
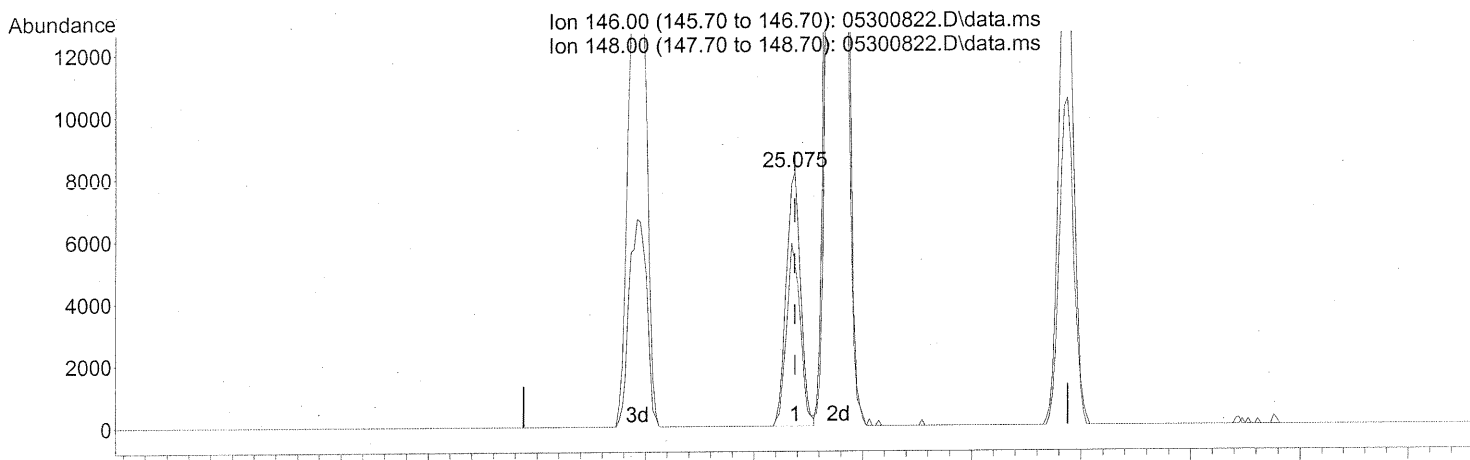
response 220060

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	48.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.075min (+0.000) 0.28ng

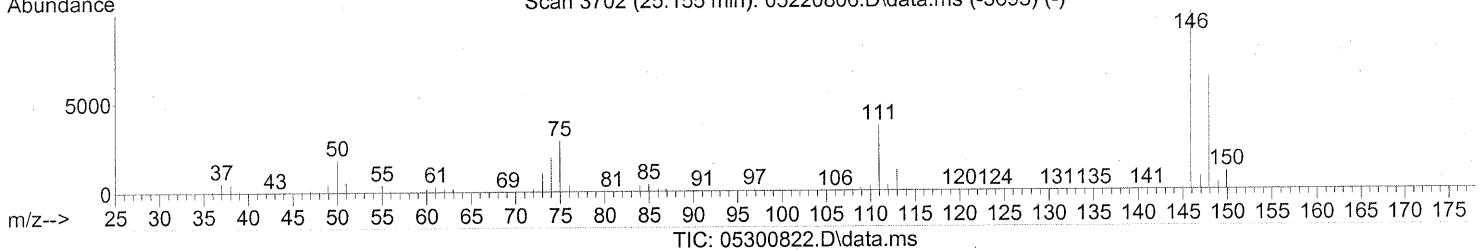
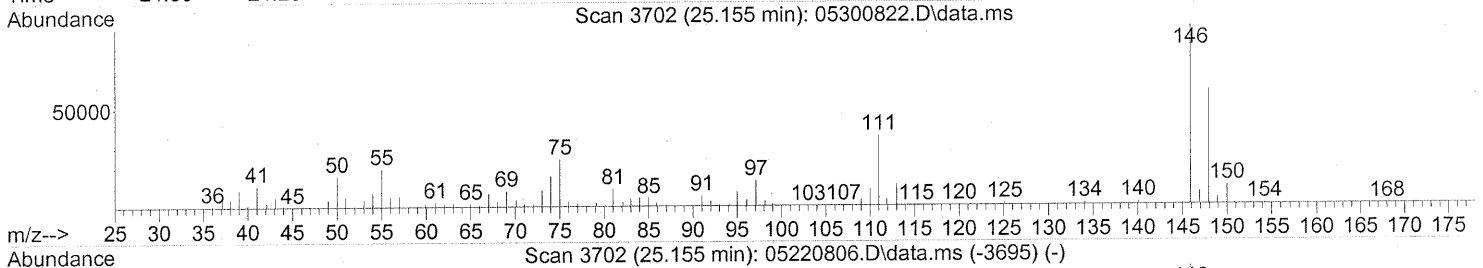
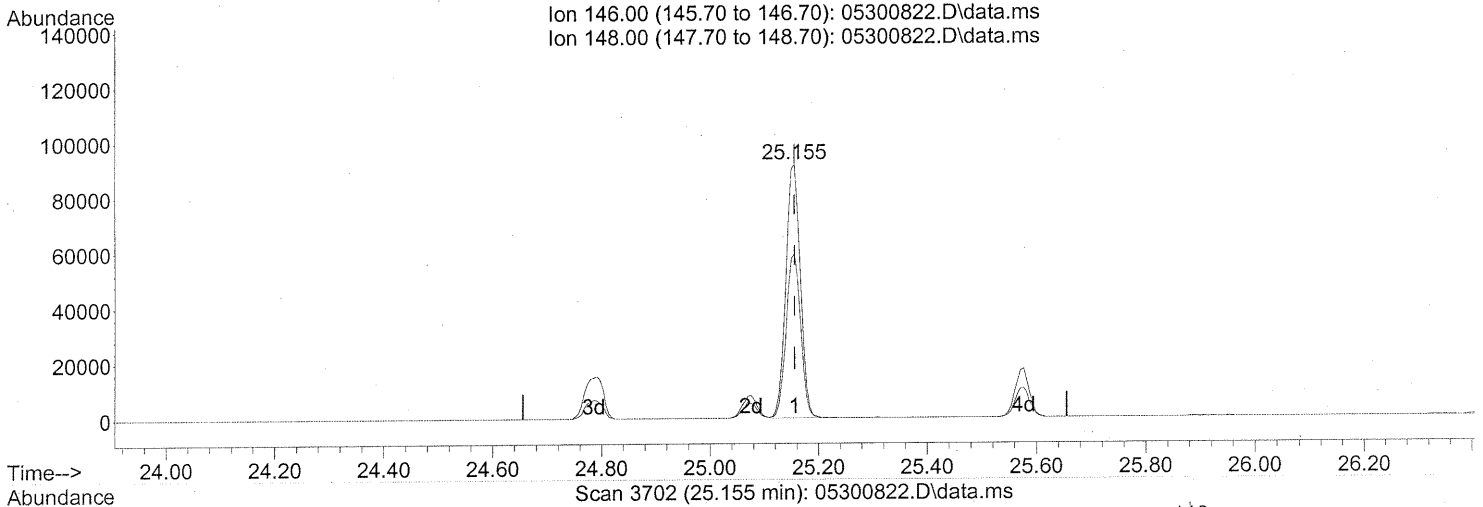
response 14911

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	68.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00 am  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 3.29ng

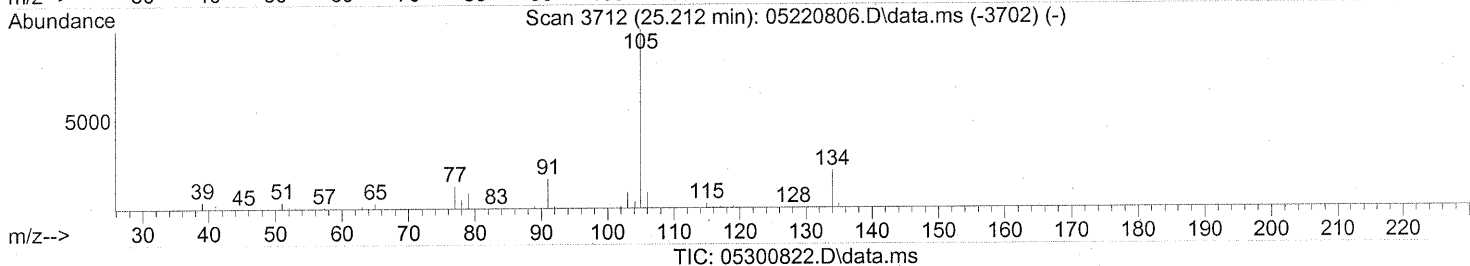
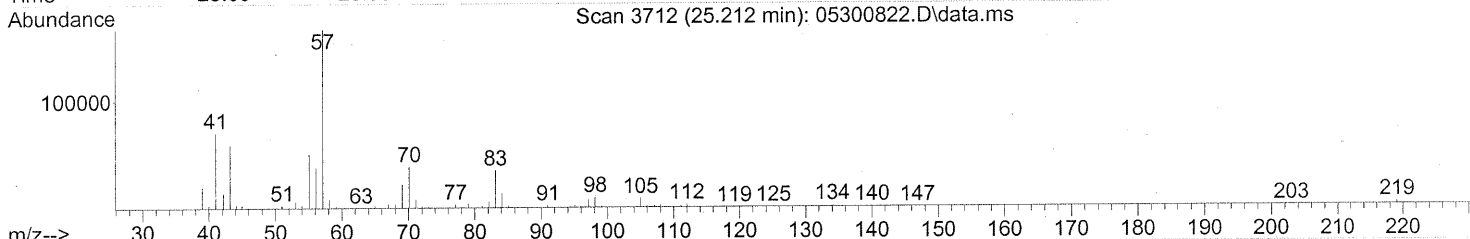
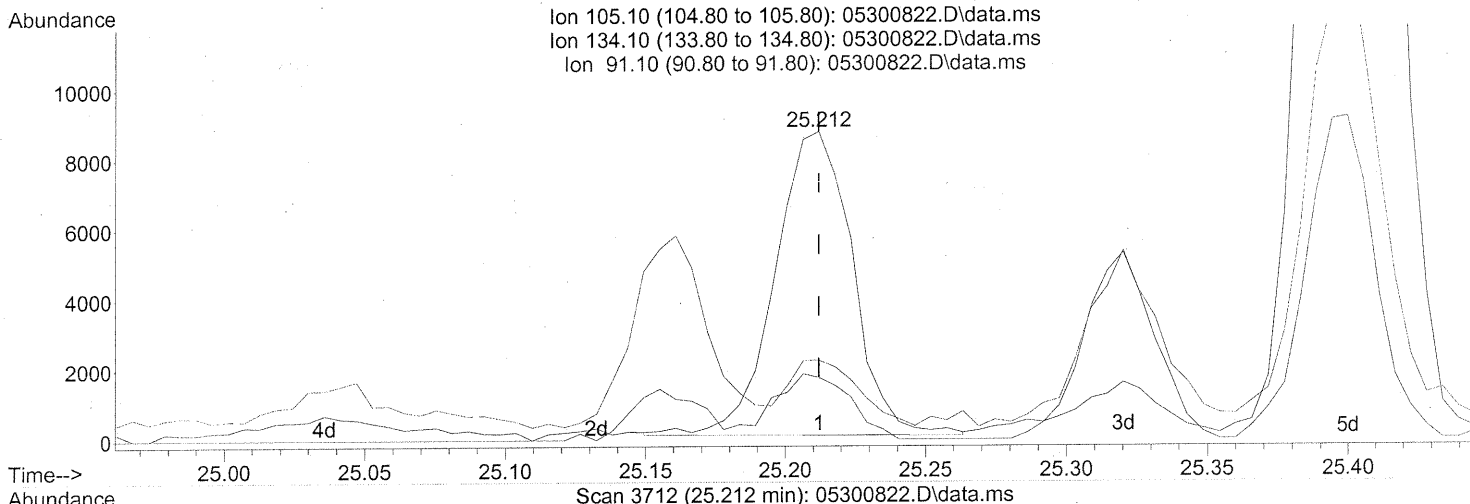
response 169702

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)  
 25.212min (+0.000) 0.15ng  
 response 16624

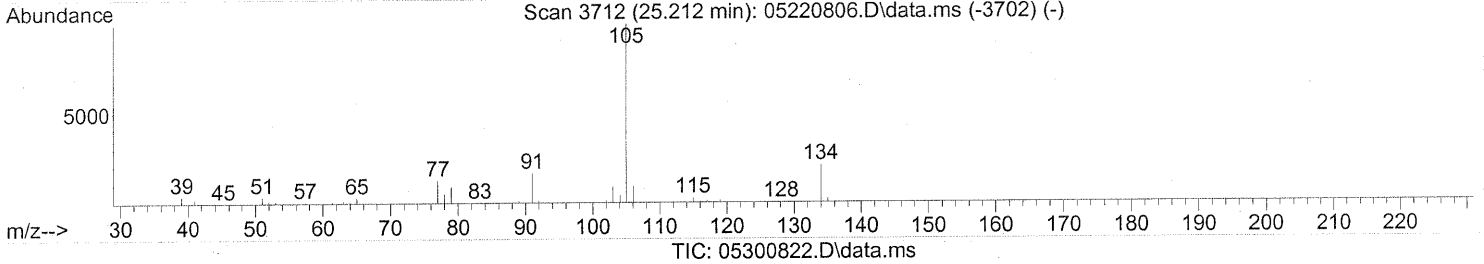
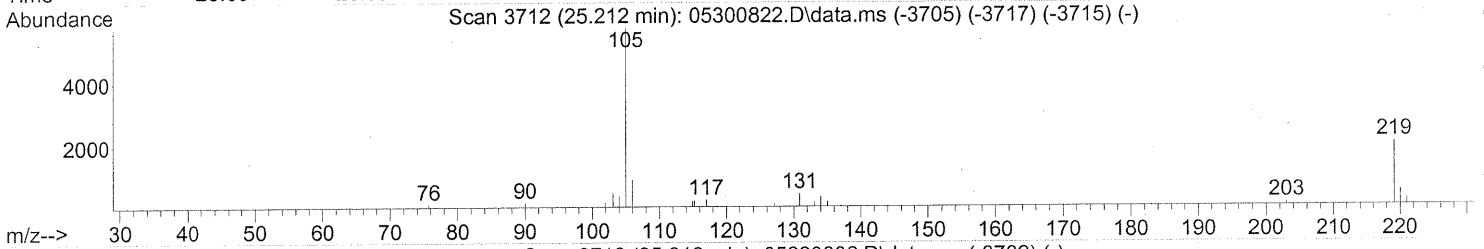
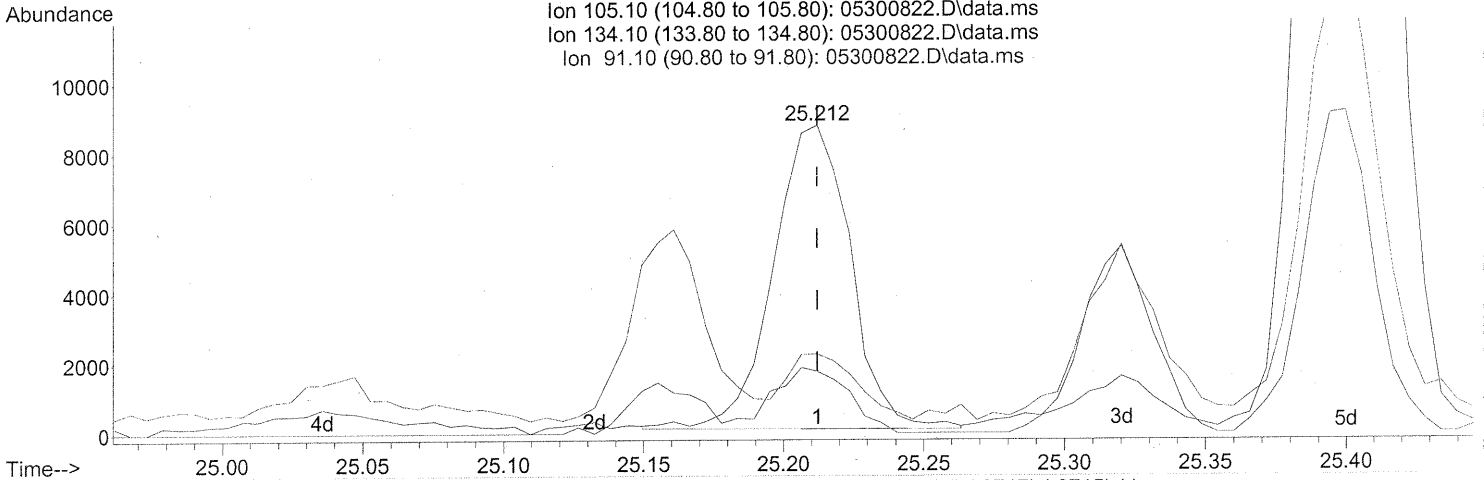
**BEFORE SUBTRACTION**

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.87
91.10	14.60	19.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (+0.000) 0.15ng

response 16624

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.87
91.10	14.60	19.06
0.00	0.00	0.00

AFter SUBTRACTION

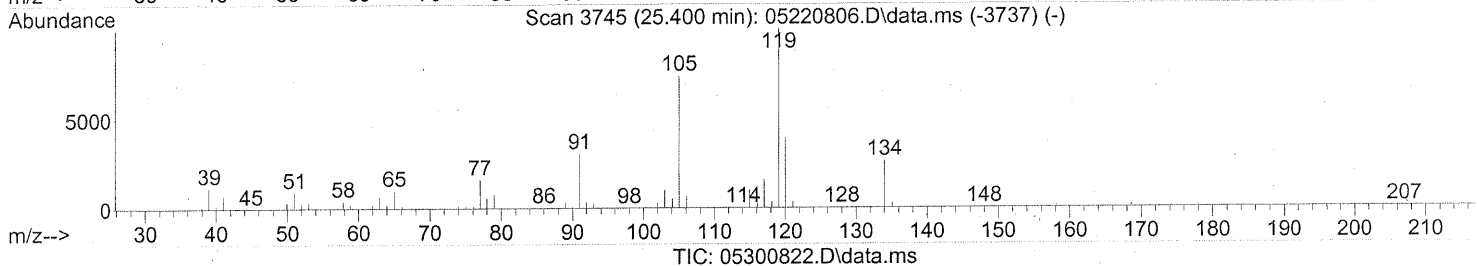
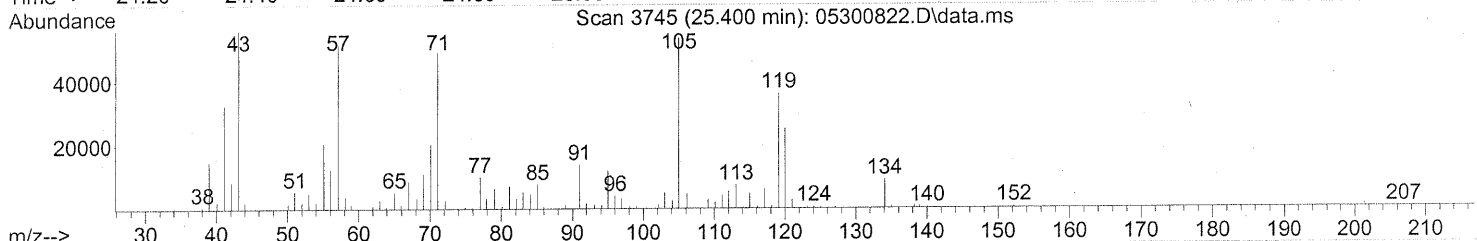
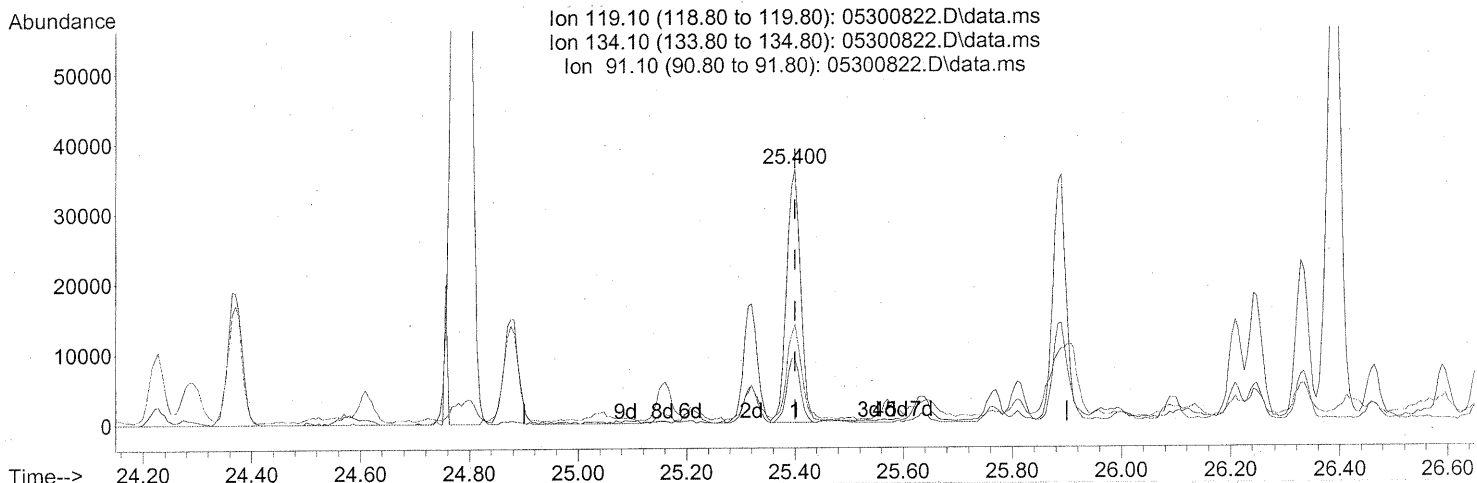
*Handwritten signature*

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.73ng

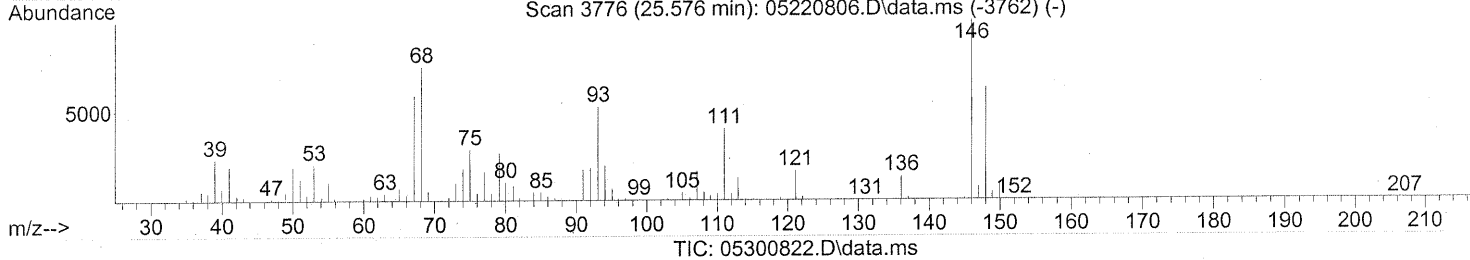
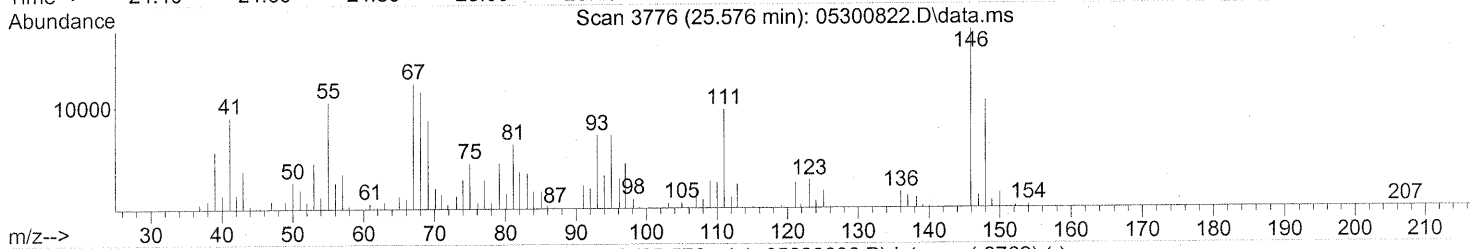
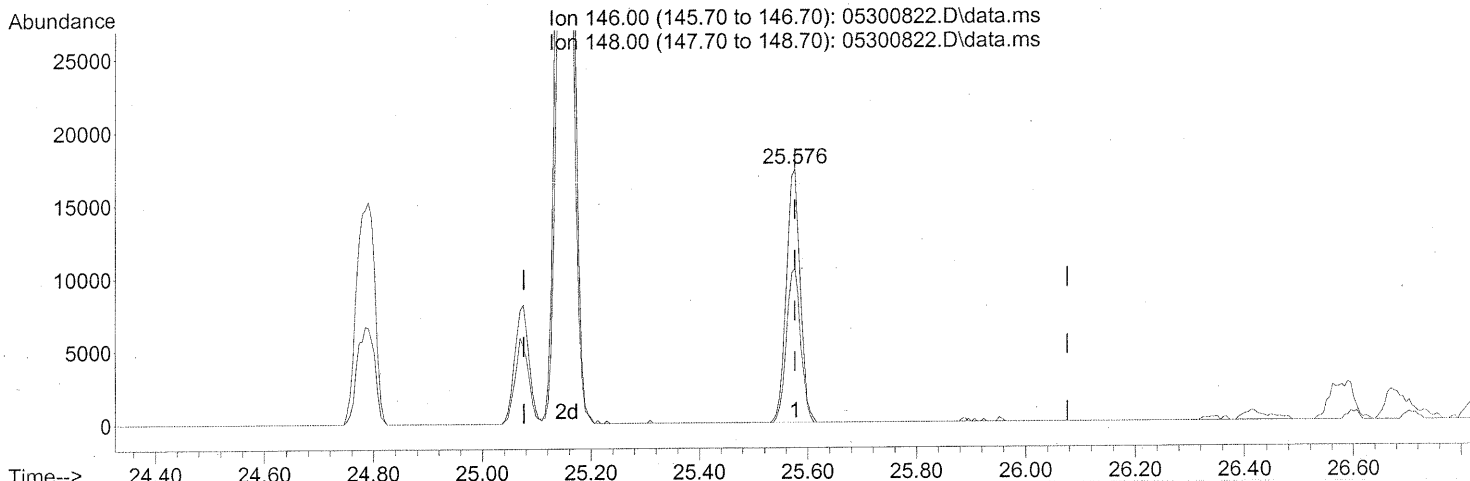
response 65036

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	24.51
91.10	27.10	38.17
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.576min (+0.000) 0.61ng

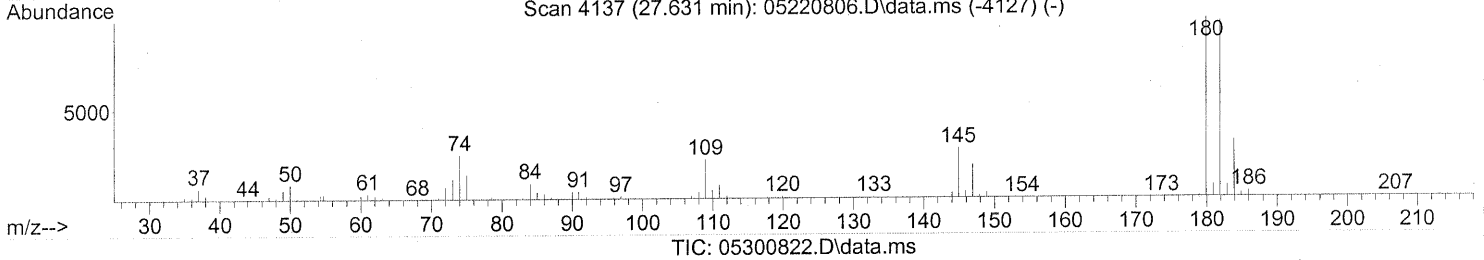
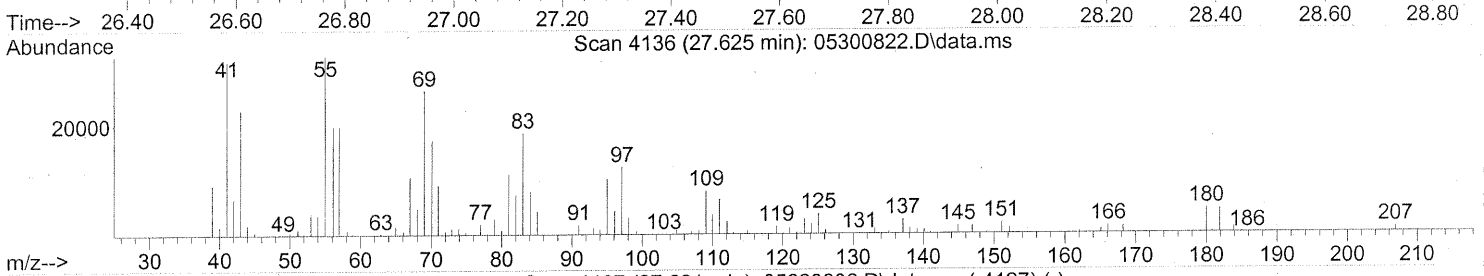
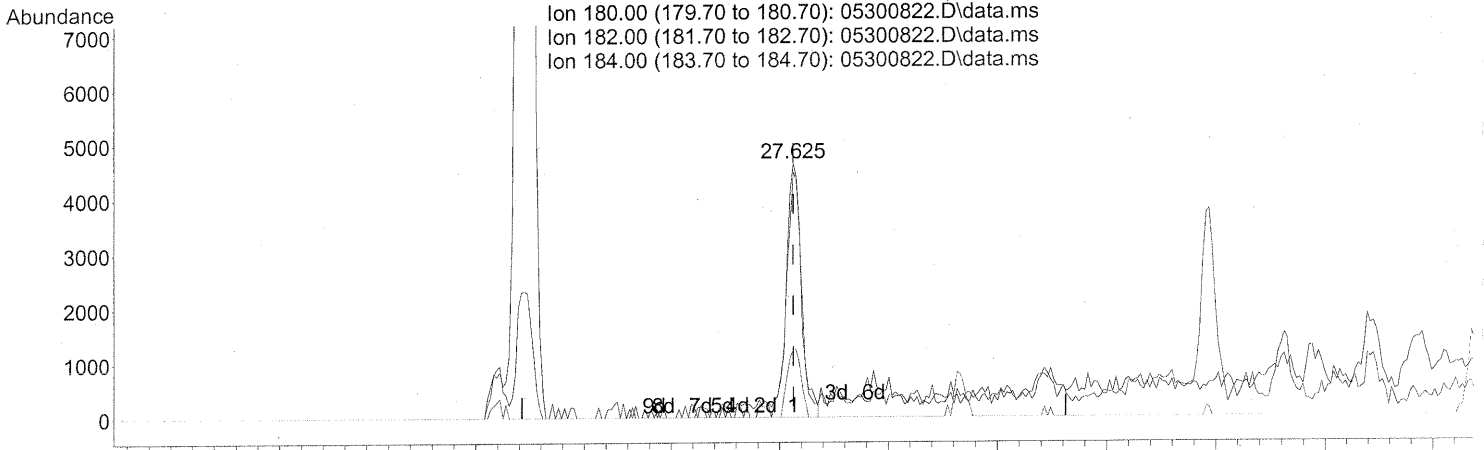
response 30905

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	61.90
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (+0.000) 0.24ng

response 8892

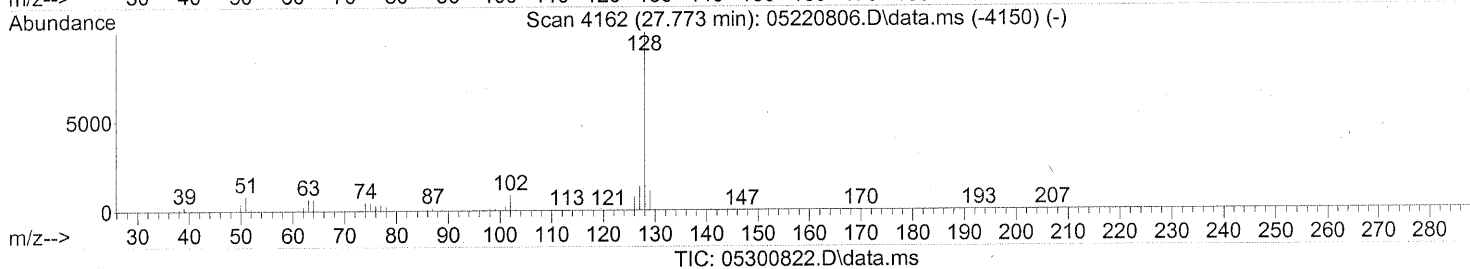
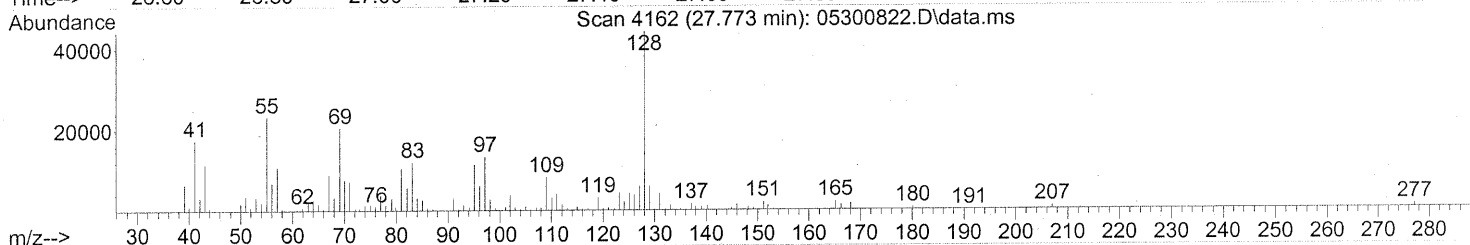
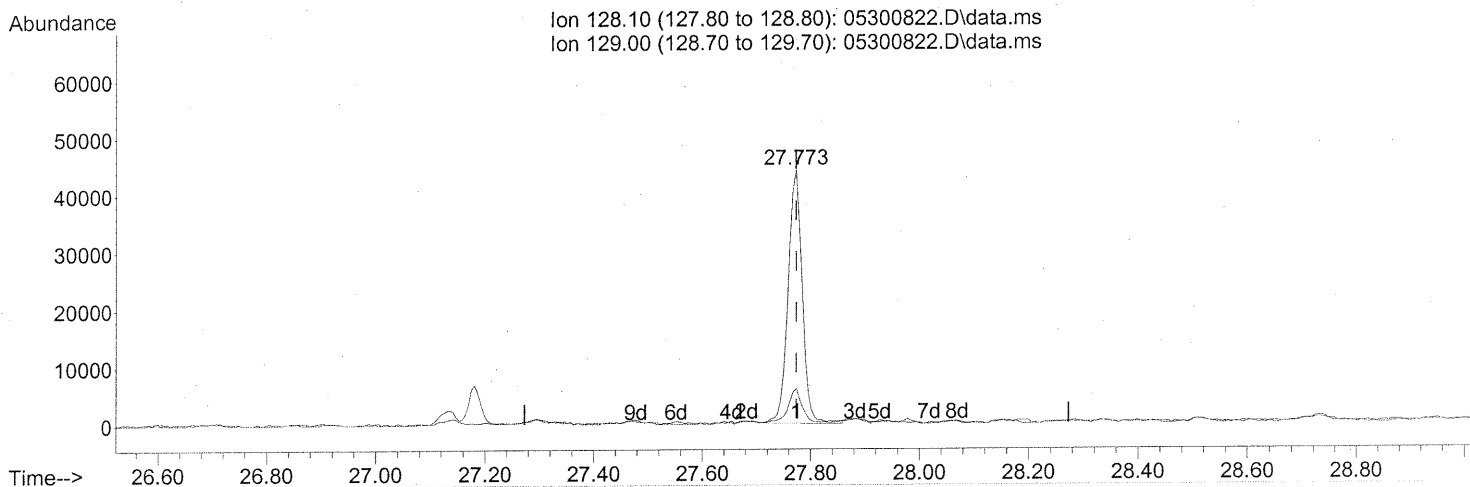
Ion	Exp%	Act%
180.00	100	100
182.00	95.20	86.59
184.00	30.30	25.02
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



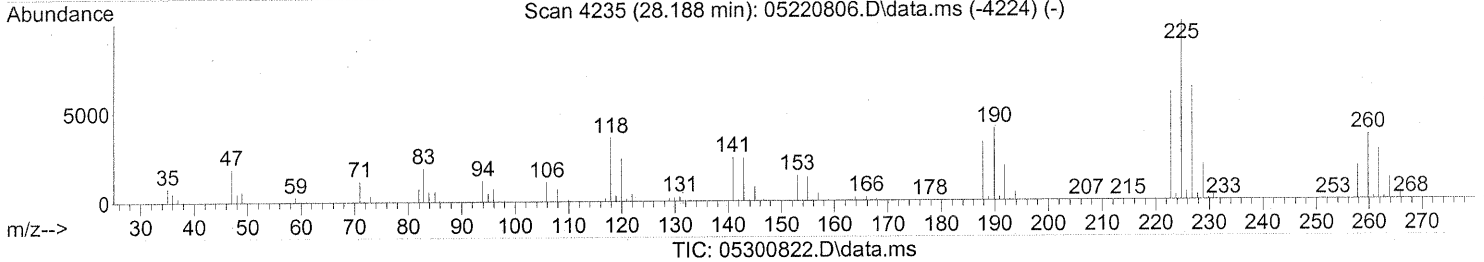
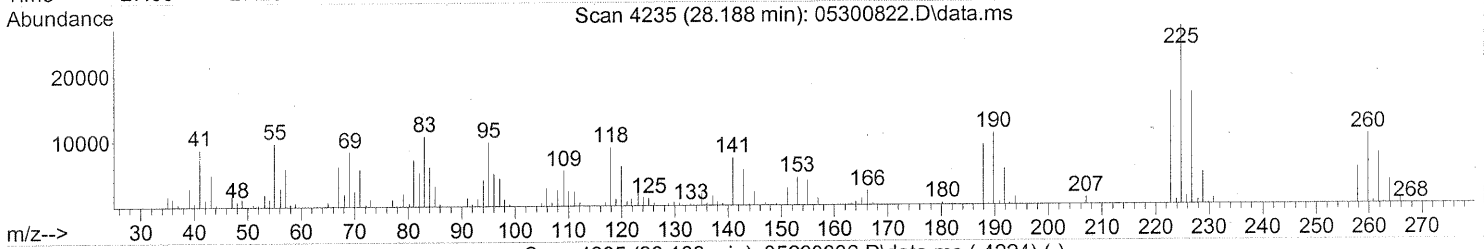
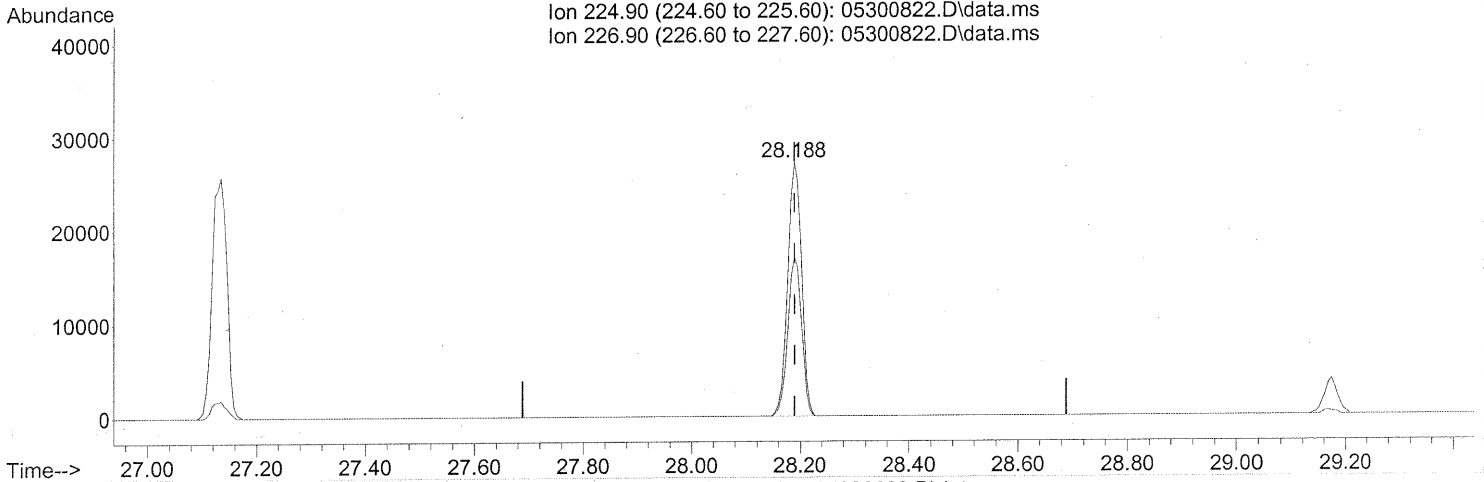
(95) Naphthalene (T)  
 27.773min (+0.000) 0.71ng  
 response 79663

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.37
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 31 05:10:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

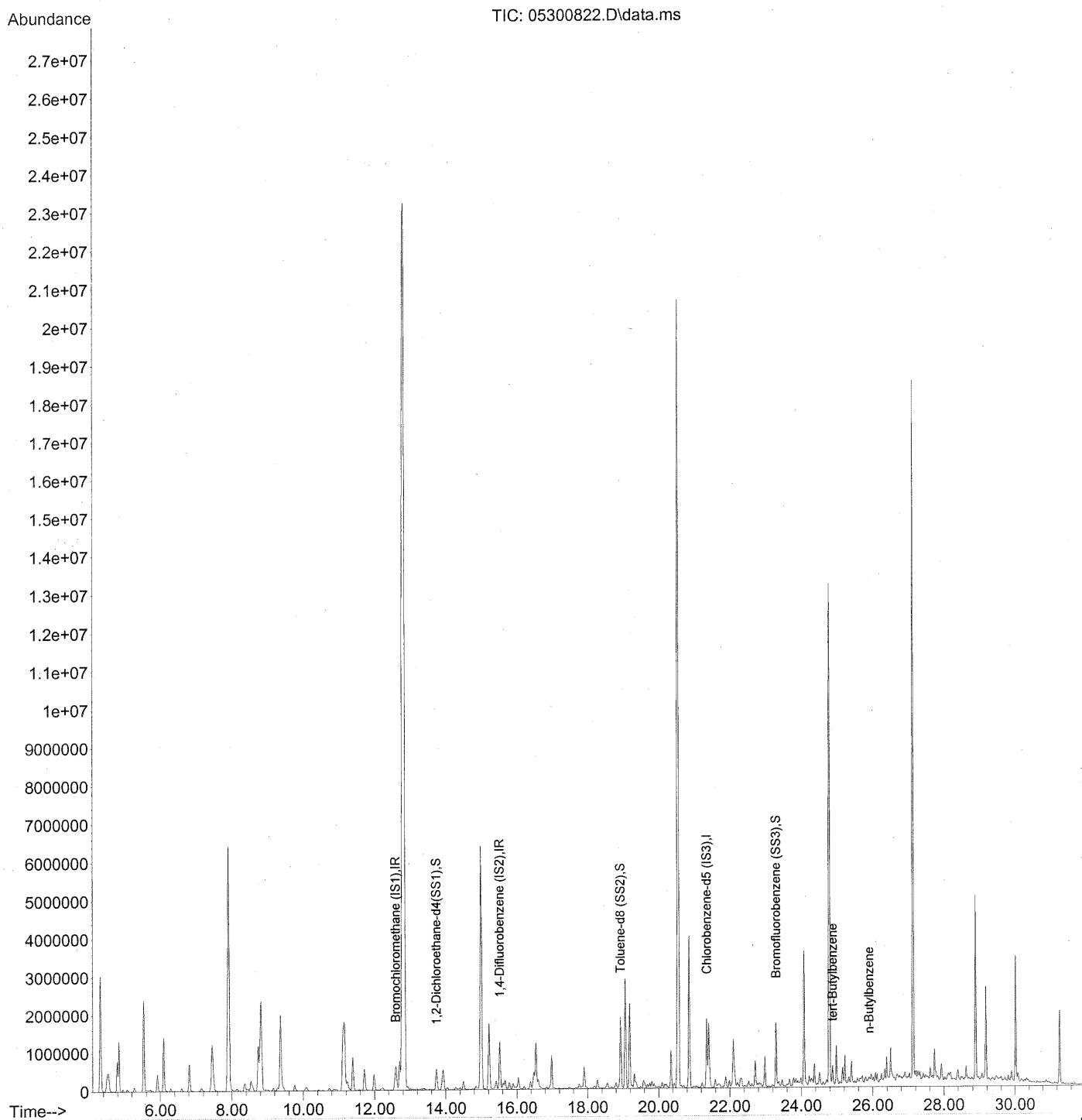
28.188min (+0.000) 1.92ng

response 47407

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	62.54
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300822.D  
Acq On : 31 May 2008 2:00 am  
Operator : WA  
Sample : P0801548-006 (1000ml)  
Misc : ENSR SG51B-05 (-2.8,3.5)  
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 08 17:22:46 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 08 17:22:46 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.60	130	376350	25.000	ng	0.00
3) 1,4-Difluorobenzene (IS2)	15.52	114	1497616	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	693630	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.74	65	542869	20.818	ng	-0.01
Spiked Amount	25.000		Recovery	=	83.28%	✓
5) Toluene-d8 (SS2)	18.93	98	1576613	25.309	ng	-0.01
Spiked Amount	25.000		Recovery	=	101.24%	✓
6) Bromofluorobenzene (SS3)	23.29	174	654283	25.828	ng	0.00
Spiked Amount	25.000		Recovery	=	103.32%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	28159	<del>0.346</del>	ng	# 60
8) n-Butylbenzene	25.90	91	34557	0.384	ng	# 45

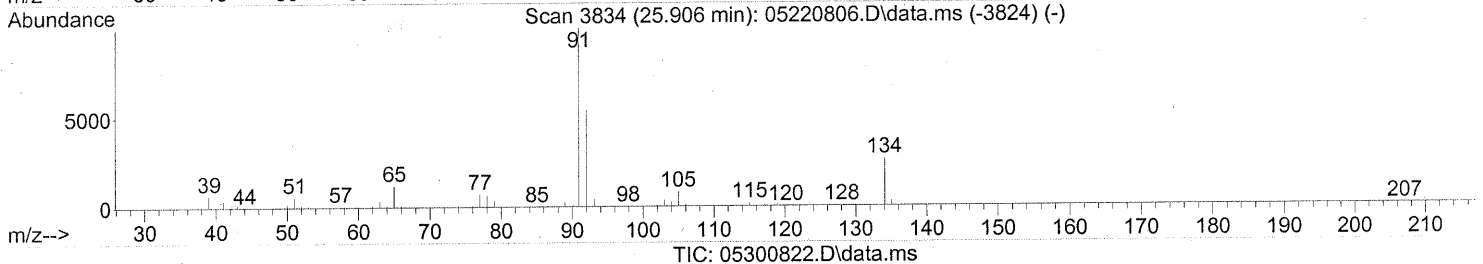
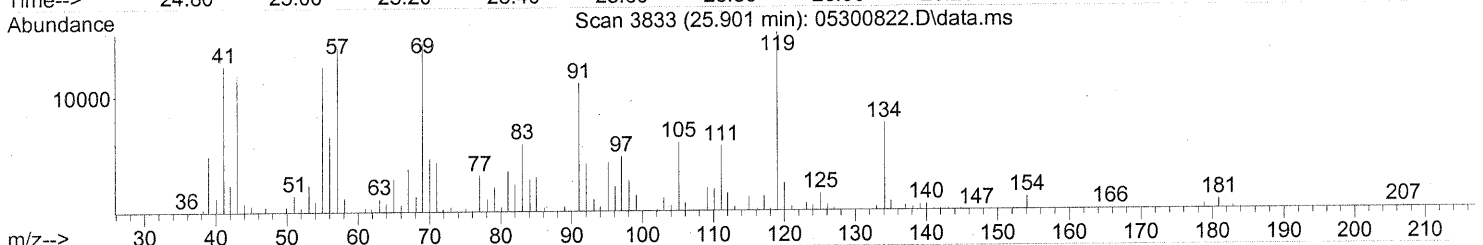
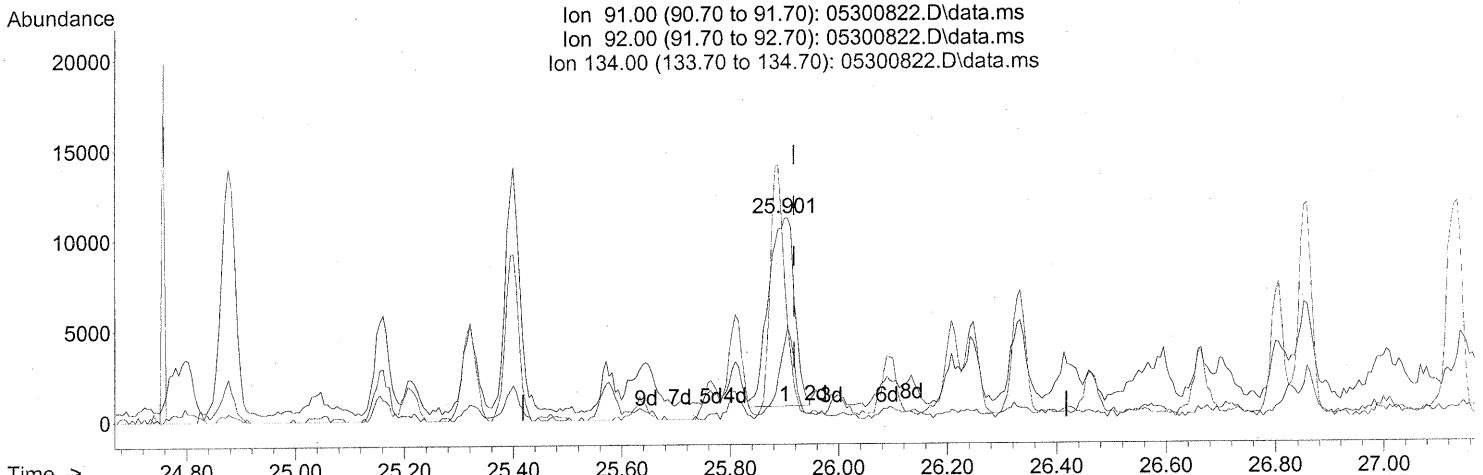
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/08/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300822.D  
 Acq On : 31 May 2008 2:00 am  
 Operator : WA  
 Sample : P0801548-006 (1000ml)  
 Misc : ENSR SG51B-05 (-2.8,3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 08 17:22:46 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

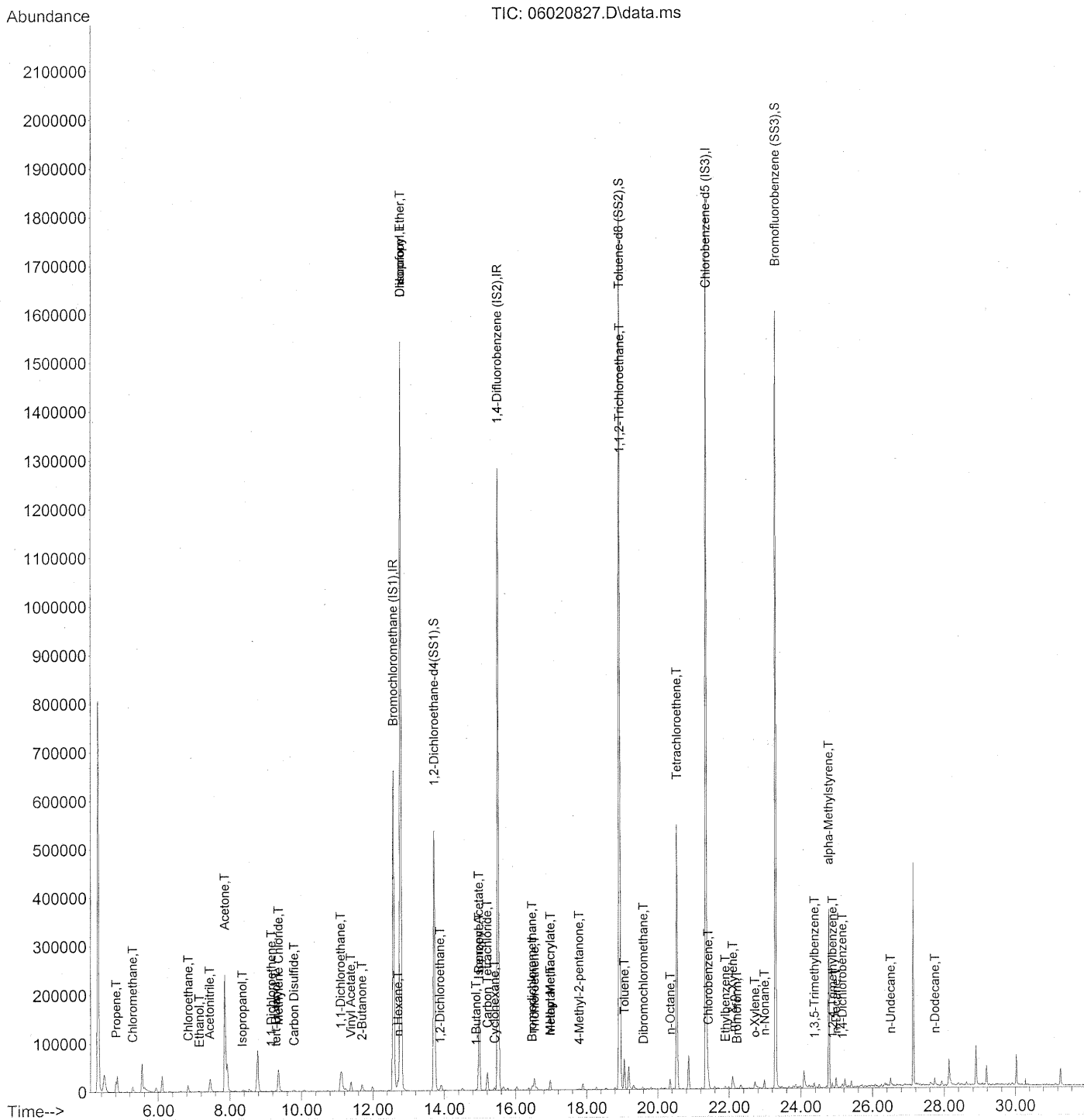
25.901min (-0.017) 0.38ng

response 34557

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	30.69#
134.00	28.80	79.82#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	353340	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1529179	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	717129	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	555561	22.692	ng	0.00
Spiked Amount	25.000		Recovery	=	90.76%	✓
57) Toluene-d8 (SS2)	18.93	98	1576592	24.479	ng	0.00
Spiked Amount	25.000		Recovery	=	97.92%	✓
73) Bromofluorobenzene (SS3)	23.29	174	628441	23.995	ng	0.00
Spiked Amount	25.000		Recovery	=	96.00%	✓

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	12900	0.462	ng	# 80
3) Dichlorodifluoromethane	4.96	85	1603	N.D.		
4) Chloromethane	5.28	50	18441	0.554	ng	94
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.76	62	1015	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	6.84	64	18351	1.159	ng	98
10) Ethanol	7.14	45	2464	0.133	ng	84
11) Acetonitrile	7.43	41	22531	0.419	ng	95
12) Acrolein	7.66	56	55	N.D.		
13) Acetone	7.85	58	125704	6.609	ng	# 54
14) Trichlorofluoromethane	8.16	101	1406	N.D.		
15) Isopropanol	8.35	45	5125	0.084	ng	# 61
16) Acrylonitrile	8.74	53	116	N.D.		
17) 1,1-Dichloroethene	9.16	96	867	0.045	ng	# 74
18) tert-Butanol	9.29	59	2539	0.049	ng	# 84
19) Methylene Chloride	9.36	84	28764	1.353	ng	# 79
20) Allyl Chloride	9.47	41	197	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	6249	0.077	ng	92
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	46476	1.260	ng	97
25) Methyl tert-Butyl Ether	11.13	73	236	N.D.		
26) Vinyl Acetate	11.38	86	299	0.085	ng	# 1
27) 2-Butanone	11.70	72	6041	0.435	ng	94
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	173513	10.200	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	11864	0.314	ng	92

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P 06/05/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	1644612	51.043	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.89	62	3424	0.110	ng	95
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.97	61	1275	0.098	ng	# 1
40) 1-Butanol	14.89	56	1897	0.090	ng	92
41) Benzene	14.97	78	192604	2.406	ng	100
42) Carbon Tetrachloride	15.21	117	33502	1.086	ng	97
43) Cyclohexane	15.41	84	2644	0.085	ng	# 74
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.20	63	669	N.D.		
46) Bromodichloromethane	16.46	83	2836	0.105	ng	80
47) Trichloroethene	16.53	130	11789	0.480	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.61	57	1021	N.D.		
50) Methyl Methacrylate	16.98	100	1853	0.232	ng	# 1
51) n-Heptane	16.98	71	5668	0.266	ng	# 78
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.79	58	853	0.040	ng	# 57
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	135803	6.864	ng	# 8
58) Toluene	19.06	91	59140	0.676	ng	99
59) 2-Hexanone	19.39	43	2046	N.D.		
60) Dibromochloromethane	19.59	129	1165	0.049	ng	98
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.17	43	62	N.D.		
63) n-Octane	20.35	57	4394	0.227	ng	86
64) Tetrachloroethene	20.54	166	207145	7.996	ng	100
65) Chlorobenzene	21.41	112	26113	0.445	ng	99
66) Ethylbenzene	21.89	91	5129	0.051	ng	97
67) m- & p-Xylene	22.10	91	24311	0.362	ng	90
68) Bromoform	22.21	173	908	0.052	ng	76
69) Styrene	22.58	104	59	N.D.		
70) o-Xylene	22.71	91	9261	0.128	ng	96
71) n-Nonane	22.98	43	8808	0.171	ng	89
72) 1,1,2,2-Tetrachloroethane	22.78	83	365	N.D.		
74) Cumene	23.46	105	1562	N.D.		
75) alpha-Pinene	23.96	93	654	N.D.		
76) n-Propylbenzene	24.10	91	1249	N.D.		
77) 3-Ethyltoluene	24.23	105	3180	N.D.		
78) 4-Ethyltoluene	24.28	105	1183	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	6133	0.071	ng	96



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

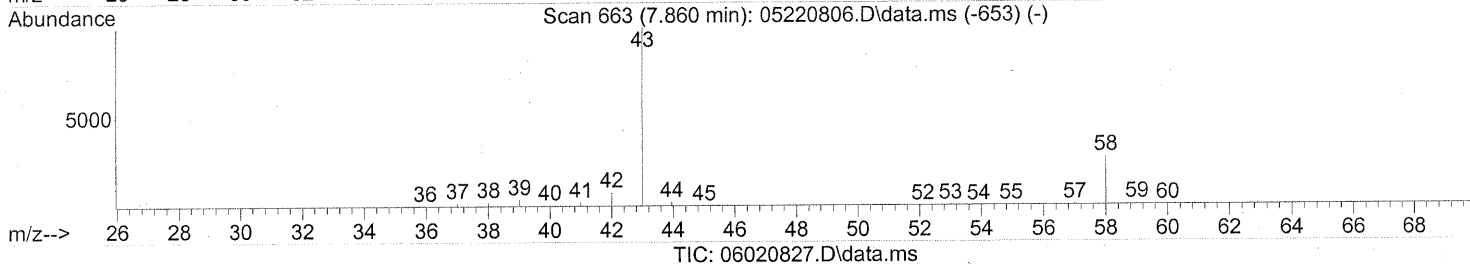
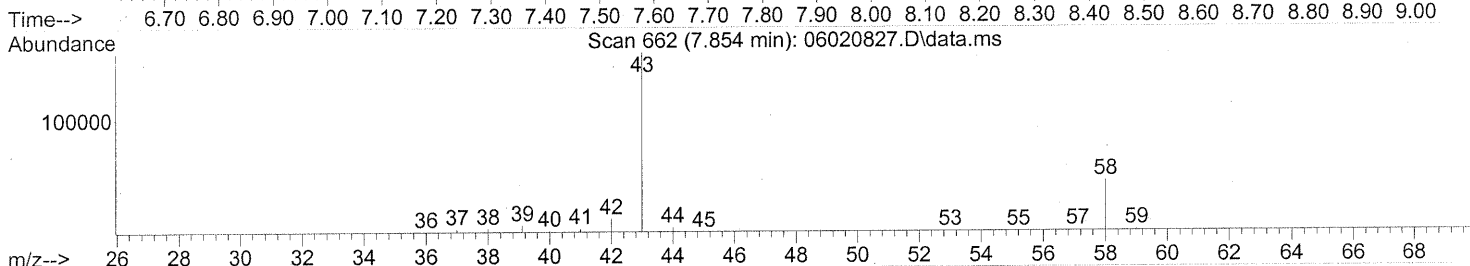
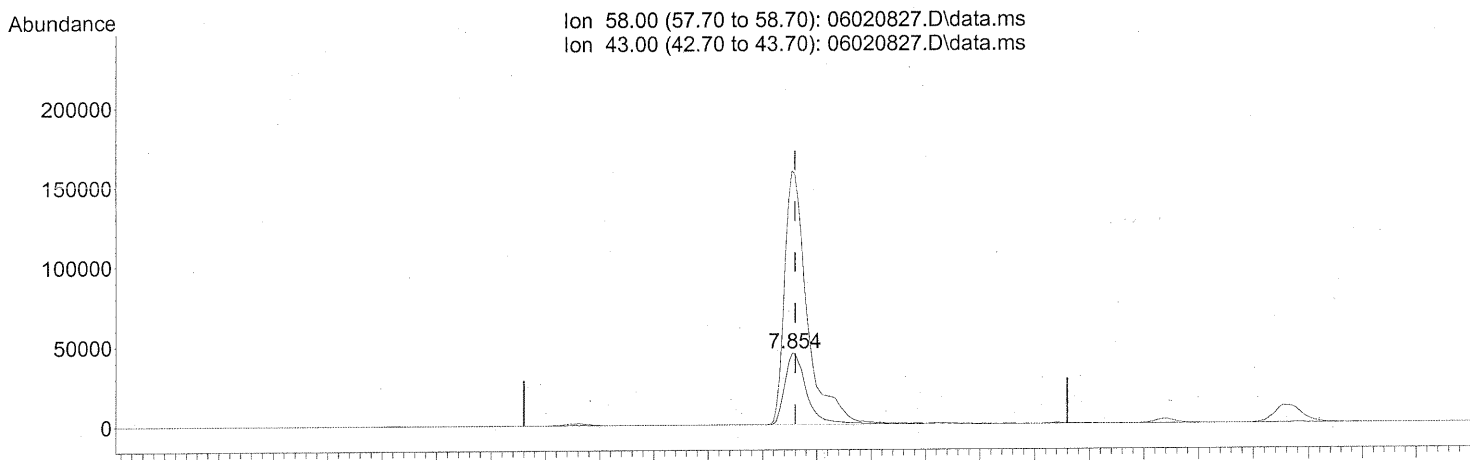
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	4289	0.092	ng	# 5
81) 2-Ethyltoluene	24.60	105	1352	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	4363	0.050	ng	95
83) n-Decane	24.98	57	8012	0.165	ng	83
84) Benzyl Chloride	24.88	91	577	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	137	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	3540	0.066	ng	98
87) sec-Butylbenzene	25.21	105	238	N.D.		
88) p-Isopropyltoluene	25.39	119	1415	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	2047	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	568	N.D.		
91) d-Limonene	25.58	68	415	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	6426	0.127	ng	# 74
94) 1,2,4-Trichlorobenzene	27.62	180	54	N.D.		
95) Naphthalene	27.78	128	2185	N.D.		
96) n-Dodecane	27.74	57	5144	0.102	ng	# 74
97) Hexachloro-1,3-butadiene	28.18	225	925	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 6.61ng

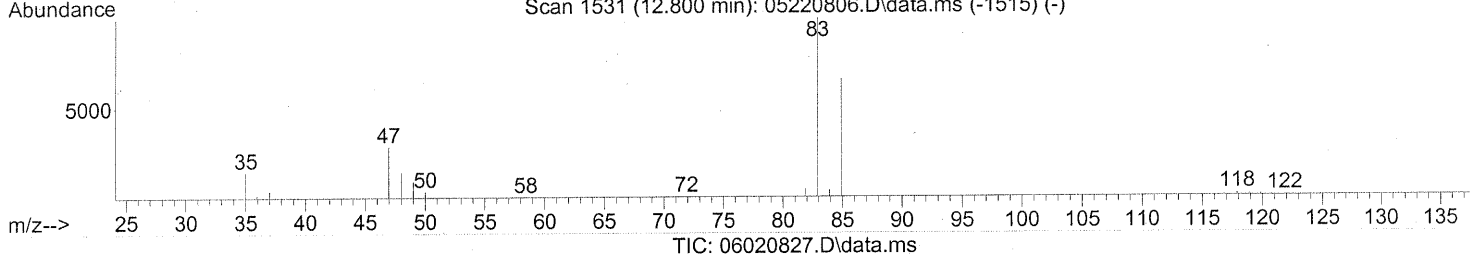
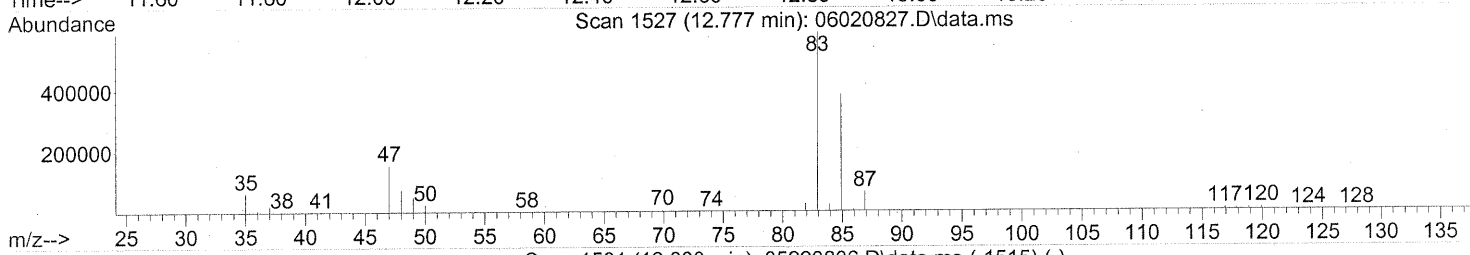
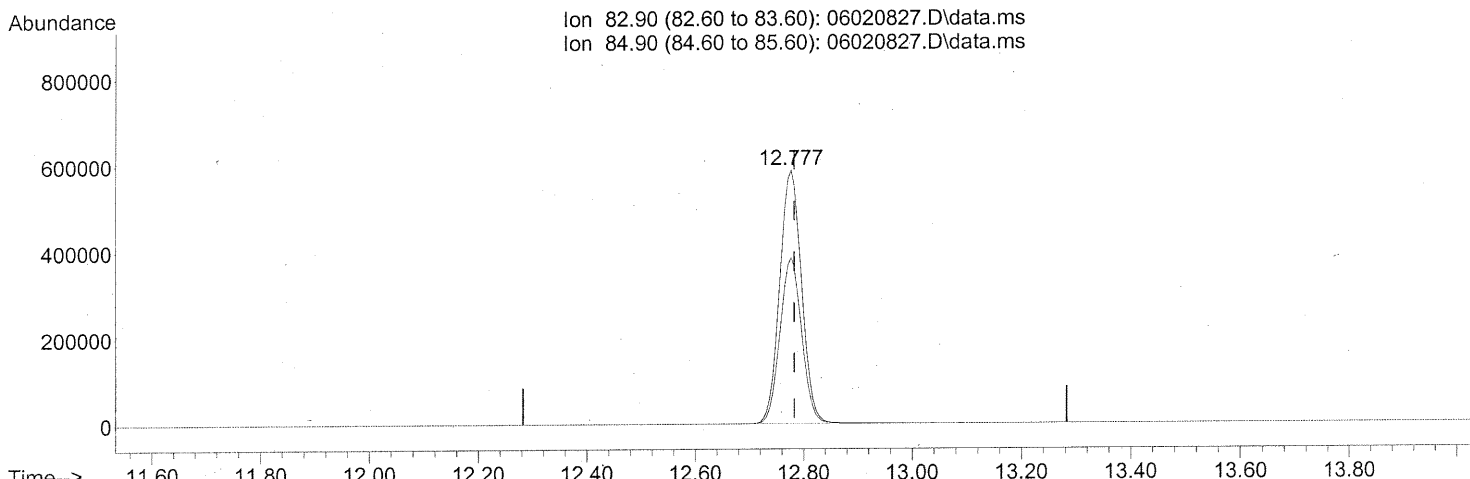
response 125704

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	370.73#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 51.04ng

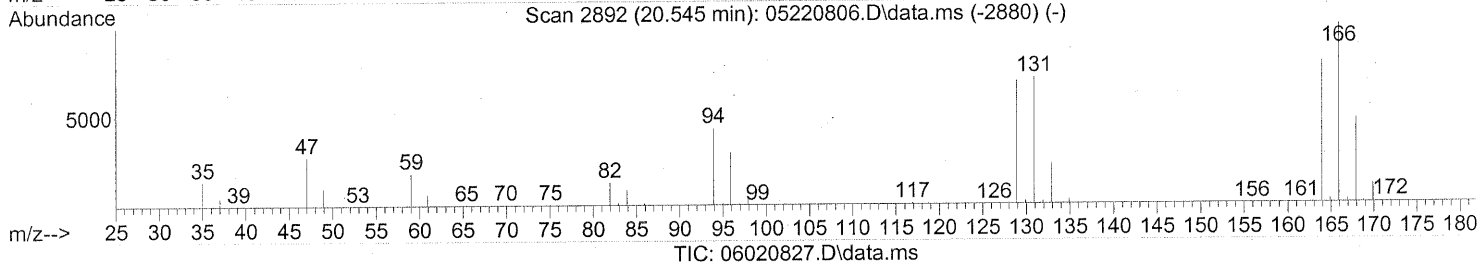
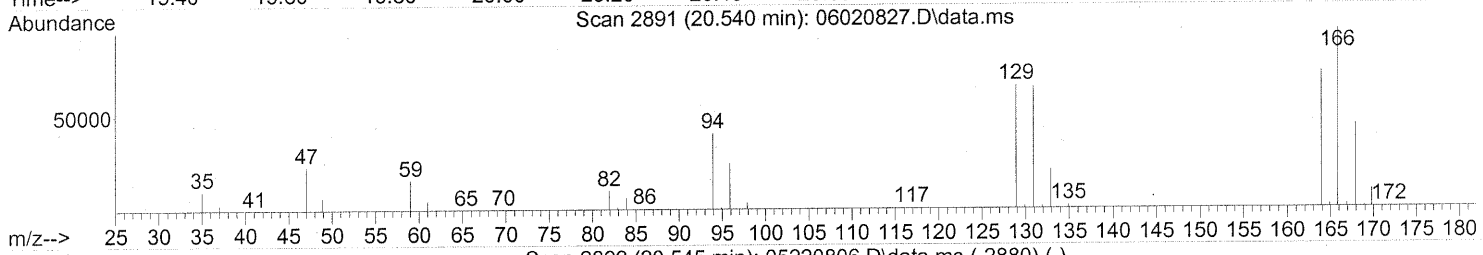
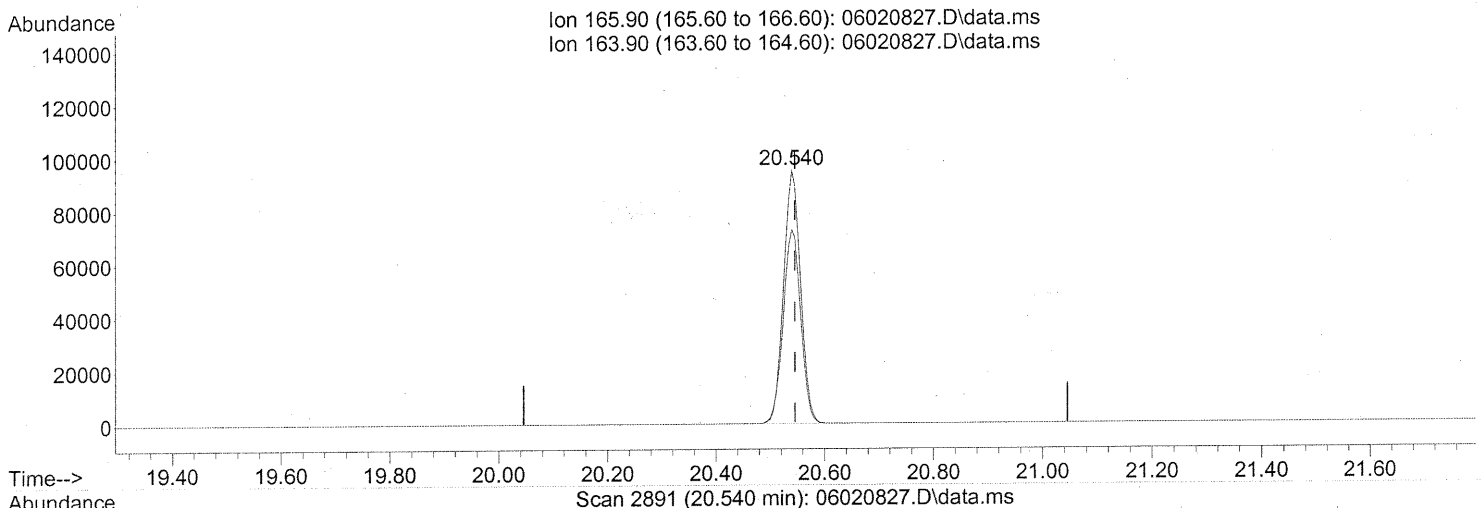
response 1644612

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020827.D  
 Acq On : 3 Jun 2008 3:54 am  
 Operator : RTB  
 Sample : P0801548-006 DIL (25mL)  
 Misc : ENSR SG51B-05 (-2.8, 3.5)  
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 03 10:53:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 8.00ng

response 207145

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.42
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo/Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00292

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08 & 6/2/08  
 Volume(s) Analyzed: 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.1	3.1	0.31	0.42	0.63	0.063	J
74-87-3	Chloromethane	27	0.62	0.31	13	0.30	0.15	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.1	0.31	ND	0.44	0.044	
75-01-4	Vinyl Chloride	2.0	0.62	0.31	0.79	0.24	0.12	
74-83-9	Bromomethane	0.61	0.62	0.31	0.16	0.16	0.080	J
75-00-3	Chloroethane	76	0.62	0.31	29	0.24	0.12	
64-17-5	Ethanol	14	31	0.31	7.7	16	0.16	J
67-64-1	Acetone	330	31	0.45	140	13	0.19	B
75-69-4	Trichlorofluoromethane	2.1	0.62	0.31	0.38	0.11	0.055	
107-13-1	Acrylonitrile	ND	3.1	0.43	ND	1.4	0.20	
75-35-4	1,1-Dichloroethene	3.0	0.62	0.31	0.75	0.16	0.078	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	5.5	3.1	0.46	1.8	1.0	0.15	
75-09-2	Methylene Chloride	90	3.1	0.31	26	0.89	0.089	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.62	0.31	ND	0.20	0.099	
76-13-1	Trichlorotrifluoroethane	0.47	0.62	0.35	0.061	0.081	0.045	J
75-15-0	Carbon Disulfide	6.5	3.1	0.74	2.1	1.0	0.24	
156-60-5	trans-1,2-Dichloroethene	ND	0.62	0.31	ND	0.16	0.078	
75-34-3	1,1-Dichloroethane	84	0.62	0.31	21	0.15	0.077	
1634-04-4	Methyl tert-Butyl Ether	ND	0.62	0.31	ND	0.17	0.086	
108-05-4	Vinyl Acetate	ND	31	0.99	ND	8.8	0.28	
78-93-3	2-Butanone (MEK)	33	3.1	0.31	11	1.1	0.11	
156-59-2	cis-1,2-Dichloroethene	ND	0.62	0.31	ND	0.16	0.078	
108-20-3	Diisopropyl Ether	ND	3.1	0.37	ND	0.74	0.088	
67-66-3	Chloroform	3,100	0.62	0.37	640	0.13	0.075	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00292

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08 & 6/2/08  
**Volume(s) Analyzed:** 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	3.1	0.32	ND	0.74	0.076	
107-06-2	<b>1,2-Dichloroethane</b>	<b>7.3</b>	0.62	0.31	<b>1.8</b>	0.15	0.077	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.45</b>	0.62	0.31	<b>0.083</b>	0.11	0.057	<b>J</b>
71-43-2	<b>Benzene</b>	<b>150</b>	0.62	0.31	<b>48</b>	0.19	0.097	
56-23-5	<b>Carbon Tetrachloride</b>	<b>78</b>	0.62	0.31	<b>12</b>	0.099	0.049	
994-05-8	tert-Amyl Methyl Ether	ND	3.1	0.31	ND	0.74	0.074	
78-87-5	<b>1,2-Dichloropropane</b>	<b>2.4</b>	0.62	0.31	<b>0.51</b>	0.13	0.067	
75-27-4	<b>Bromodichloromethane</b>	<b>7.2</b>	0.62	0.31	<b>1.1</b>	0.093	0.046	
79-01-6	<b>Trichloroethene</b>	<b>33</b>	0.62	0.31	<b>6.1</b>	0.12	0.058	
123-91-1	<b>1,4-Dioxane</b>	<b>0.92</b>	3.1	0.38	<b>0.26</b>	0.86	0.10	<b>J</b>
80-62-6	Methyl Methacrylate	ND	3.1	0.47	ND	0.76	0.11	
142-82-5	<b>n-Heptane</b>	<b>15</b>	3.1	0.40	<b>3.6</b>	0.76	0.097	
10061-01-5	cis-1,3-Dichloropropene	ND	3.1	0.32	ND	0.68	0.071	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>1.8</b>	3.1	0.35	<b>0.43</b>	0.76	0.085	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	3.1	0.39	ND	0.68	0.086	
79-00-5	1,1,2-Trichloroethane	ND	0.62	0.31	ND	0.11	0.057	
108-88-3	<b>Toluene</b>	<b>26</b>	3.1	0.31	<b>6.9</b>	0.82	0.082	
591-78-6	2-Hexanone	ND	3.1	0.47	ND	0.76	0.12	
124-48-1	<b>Dibromochloromethane</b>	<b>3.4</b>	0.62	0.42	<b>0.40</b>	0.073	0.050	
106-93-4	1,2-Dibromoethane	ND	0.62	0.33	ND	0.081	0.044	
111-65-9	<b>n-Octane</b>	<b>4.4</b>	3.1	0.31	<b>0.93</b>	0.66	0.066	
127-18-4	<b>Tetrachloroethene</b>	<b>440</b>	0.62	0.31	<b>64</b>	0.091	0.046	
108-90-7	<b>Chlorobenzene</b>	<b>8.1</b>	0.62	0.32	<b>1.8</b>	0.13	0.069	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG51B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-007

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo/Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00292

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08 & 6/2/08  
 Volume(s) Analyzed: 0.25 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.9      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.55

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.77	3.1	0.38	0.18	0.71	0.089	J
179601-23-1	m,p-Xylenes	2.4	3.1	0.81	0.56	0.71	0.19	J
75-25-2	Bromoform	2.6	3.1	0.47	0.26	0.30	0.046	J
100-42-5	Styrene	ND	3.1	0.47	ND	0.73	0.11	
95-47-6	o-Xylene	0.58	3.1	0.39	0.13	0.71	0.090	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.62	0.40	ND	0.090	0.058	
98-82-8	Cumene	ND	3.1	0.35	ND	0.63	0.071	
103-65-1	n-Propylbenzene	ND	3.1	0.32	ND	0.63	0.066	
622-96-8	4-Ethyltoluene	ND	3.1	0.35	ND	0.63	0.072	
108-67-8	1,3,5-Trimethylbenzene	ND	3.1	0.37	ND	0.63	0.076	
98-83-9	alpha-Methylstyrene	ND	3.1	0.45	ND	0.64	0.094	
95-63-6	1,2,4-Trimethylbenzene	ND	3.1	0.43	ND	0.63	0.087	
100-44-7	Benzyl Chloride	ND	0.62	0.53	ND	0.12	0.10	
541-73-1	1,3-Dichlorobenzene	ND	0.62	0.38	ND	0.10	0.064	
106-46-7	1,4-Dichlorobenzene	ND	0.62	0.35	ND	0.10	0.058	
135-98-8	sec-Butylbenzene	ND	3.1	0.36	ND	0.56	0.066	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	3.1	0.40	ND	0.56	0.073	
95-50-1	1,2-Dichlorobenzene	ND	0.62	0.41	ND	0.10	0.068	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.1	0.47	ND	0.32	0.049	
120-82-1	1,2,4-Trichlorobenzene	ND	0.62	0.47	ND	0.084	0.064	
91-20-3	Naphthalene	ND	1.2	0.46	ND	0.24	0.088	
87-68-3	Hexachlorobutadiene	ND	0.62	0.56	ND	0.058	0.052	
98-06-6	tert-Butylbenzene	ND	1.2	0.31	ND	0.23	0.056	
104-51-8	n-Butylbenzene	ND	1.2	0.31	ND	0.23	0.056	

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

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

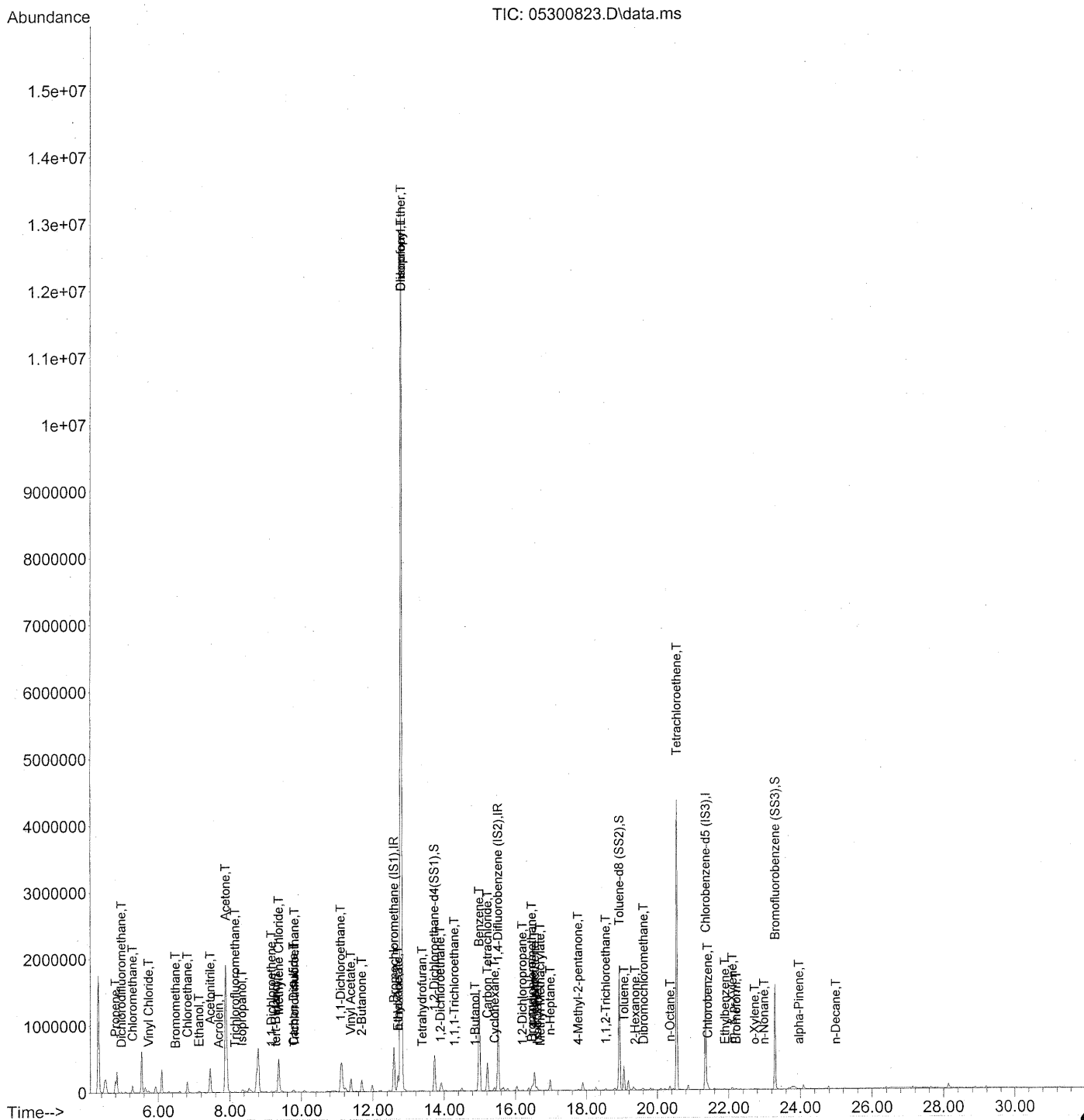
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**495**

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	364581	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1495095	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	670683	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	548566	21.715	ng	0.00
Spiked Amount				25.000		
				Recovery =	86.88%	✓
57) Toluene-d8 (SS2)	18.93	98	1537117	25.519	ng	0.00
Spiked Amount				25.000		
				Recovery =	102.08%	✓
73) Bromofluorobenzene (SS3)	23.29	174	630848	25.755	ng	0.00
Spiked Amount				25.000		
				Recovery =	103.04%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	123206	4.279	ng	# 79
3) Dichlorodifluoromethane	4.96	85	17923	0.338	ng	99
4) Chloromethane	5.28	50	148889	4.332	ng	98
5) Freon 114	5.53	135	332	N.D.	✓	
6) Vinyl Chloride	5.73	62	11208	0.326	ng	93
7) 1,3-Butadiene	6.00	54	249	N.D.		
8) Bromomethane	6.48	94	1882	0.098	ng	95
9) Chloroethane	6.82	64	199576	12.218	ng	95
10) Ethanol	7.14	45	44762	2.335	ng	95
11) Acetonitrile	7.45	41	286073	5.161	ng	99
12) Acrolein	7.69	56	1373	0.100	ng	90
13) Acetone	7.88	58	1053618	53.685	ng	# 57
14) Trichlorofluoromethane	8.14	101	15691	0.345	ng	98
15) Isopropanol	8.34	45	77537	1.239	ng	100
16) Acrylonitrile	8.66	53	660	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	9571	0.478	ng	# 73
18) tert-Butanol	9.28	59	47519m	0.893	ng	
19) Methylene Chloride	9.36	84	318201	14.507	ng	# 74
20) Allyl Chloride	9.54	41	164	N.D.	✓	
21) Trichlorotrifluoroethane	9.80	151	1548	0.075	ng	96
22) Carbon Disulfide	9.77	76	86698	1.042	ng	97
23) trans-1,2-Dichloroethene	10.80	61	431	N.D.	✓	
24) 1,1-Dichloroethane	11.10	63	514963	13.530	ng	95
25) Methyl tert-Butyl Ether	11.22	73	380	N.D.	✓	
26) Vinyl Acetate	11.38	86	6812	1.878	ng	# 1
27) 2-Butanone	11.68	72	75376	5.262	ng	# 80
28) cis-1,2-Dichloroethene	12.37	61	942	N.D.	✓	
29) Diisopropyl Ether	12.79	87	1757719	100.142	ng	# 1
30) Ethyl Acetate	12.70	61	12154	1.572	ng	# 73
31) n-Hexane	12.70	57	124515	3.191	ng	87

*Page 1 of 8*  
 06/05/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.79	83	15304814	<del>460.360</del>	ng	96
34) Tetrahydrofuran	13.38	72	3192	0.233	ng	75
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.89	62	37669	1.173	ng	96
38) 1,1,1-Trichloroethane	14.29	97	2492	0.073	ng	91
39) Isopropyl Acetate	14.85	61	112	N.D.		
40) 1-Butanol	14.87	56	12362	0.602	ng	95
41) Benzene	14.99	78	1929895	24.653	ng	100
42) Carbon Tetrachloride	15.21	117	377573	12.524	ng	99
43) Cyclohexane	15.41	84	28256	0.928	ng	75
44) tert-Amyl Methyl Ether	15.70	73	64	N.D.	✓	
45) 1,2-Dichloropropane	16.19	63	7962	0.380	ng	98
46) Bromodichloromethane	16.46	83	30728	1.161	ng	82
47) Trichloroethene	16.54	130	127337	5.302	ng	98
48) 1,4-Dioxane	16.51	88	2200	0.149	ng	83
49) Isooctane	16.62	57	10884	0.121	ng	1
50) Methyl Methacrylate	16.70	100	867	<del>0.111</del>	ng	1
51) n-Heptane	16.98	71	48992	2.355	ng	78
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	5873	0.283	ng	65
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.55	97	1231	<del>0.064</del>	ng	54
58) Toluene	19.06	91	343541	4.196	ng	97
59) 2-Hexanone	19.37	43	8544	<del>0.151</del>	ng	45
60) Dibromochloromethane	19.61	129	12298	0.556	ng	99
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.20	43	2045	N.D.		
63) n-Octane	20.35	57	12729	0.703	ng	87
64) Tetrachloroethene	20.55	166	1708360	70.513	ng	99
65) Chlorobenzene	21.41	112	71599	1.304	ng	98
66) Ethylbenzene	21.89	91	11673	0.124	ng	93
67) m- & p-Xylene	22.10	91	24422	0.389	ng	91
68) Bromoform	22.21	173	7022	0.427	ng	100
69) Styrene	22.59	104	157	N.D.	✓	
70) o-Xylene	22.72	91	6309	0.093	ng	90
71) n-Nonane	22.98	43	6055	0.126	ng	76
72) 1,1,2,2-Tetrachloroethane	22.69	83	332	N.D.	✓	
74) Cumene	23.46	105	1958	N.D.	✓	
75) alpha-Pinene	23.96	93	2164	0.046	ng	2
76) n-Propylbenzene	24.10	91	657	N.D.	✓	
77) 3-Ethyltoluene	24.23	105	1492	N.D.		
78) 4-Ethyltoluene	24.28	105	915	N.D.	✓	
79) 1,3,5-Trimethylbenzene	24.36	105	2025	N.D.	✓	

See det. #

NR

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Fedora

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.78	118	413	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	301	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	1224	N.D.	✓	
83) n-Decane	24.98	57	1852	0.041	ng	83
84) Benzyl Chloride	25.05	91	130	N.D.	✓	
85) 1,3-Dichlorobenzene	25.16	146	971	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	971	N.D.	✓	
87) sec-Butylbenzene	25.22	105	124	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	1037	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.40	105	708	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	63	N.D.	✓	
91) d-Limonene	25.59	68	344	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.50	57	469	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	180	0	N.D.	✓	
95) Naphthalene	27.78	128	1313	N.D.	✓	
96) n-Dodecane	27.73	57	1131	N.D.		
97) Hexachloro-1,3-butadiene	28.19	225	53	N.D.	✓	

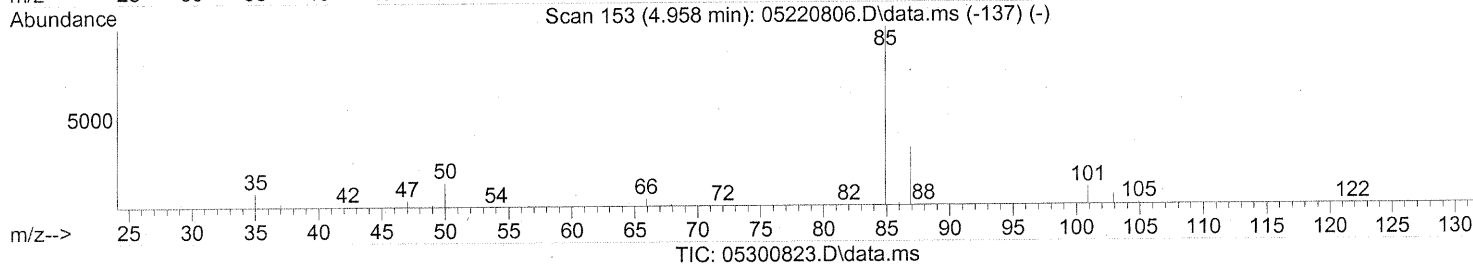
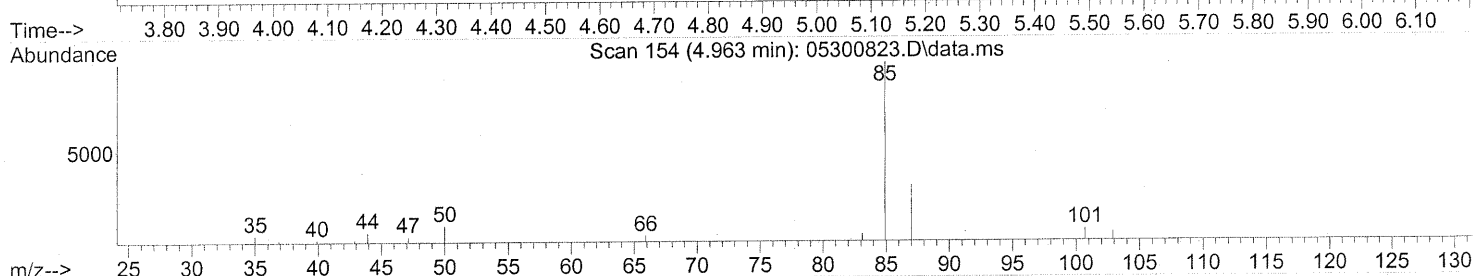
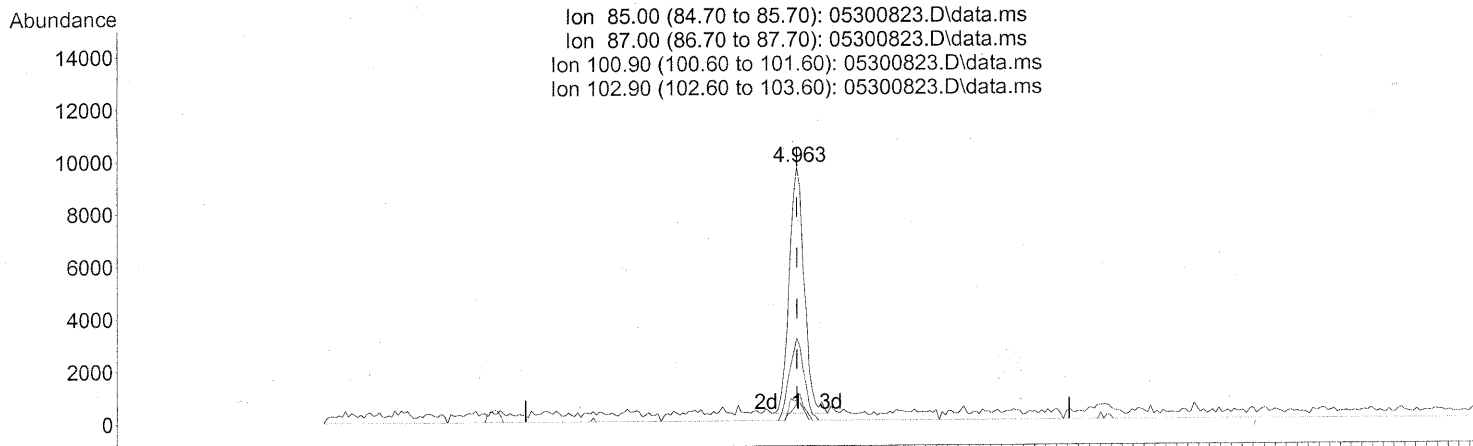
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 0.34ng

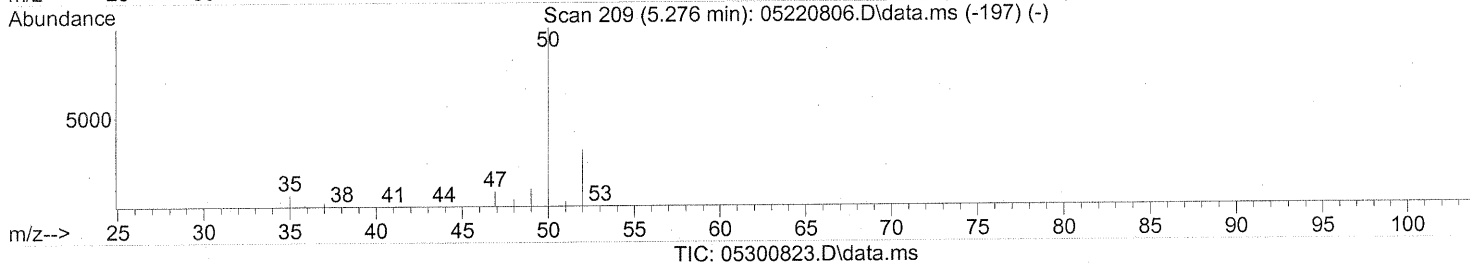
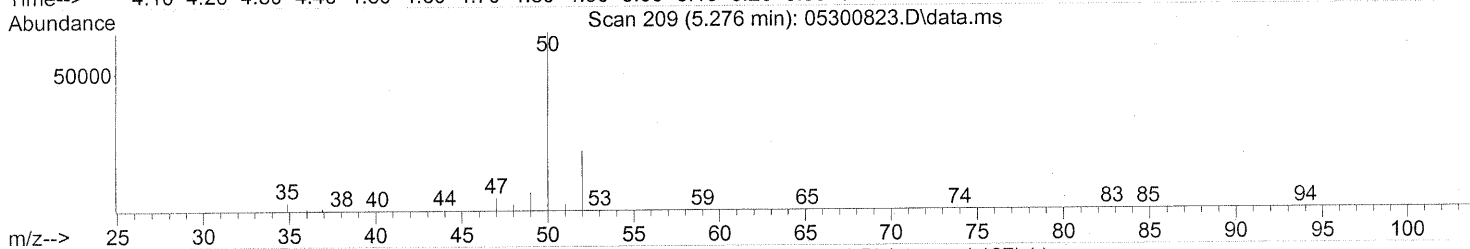
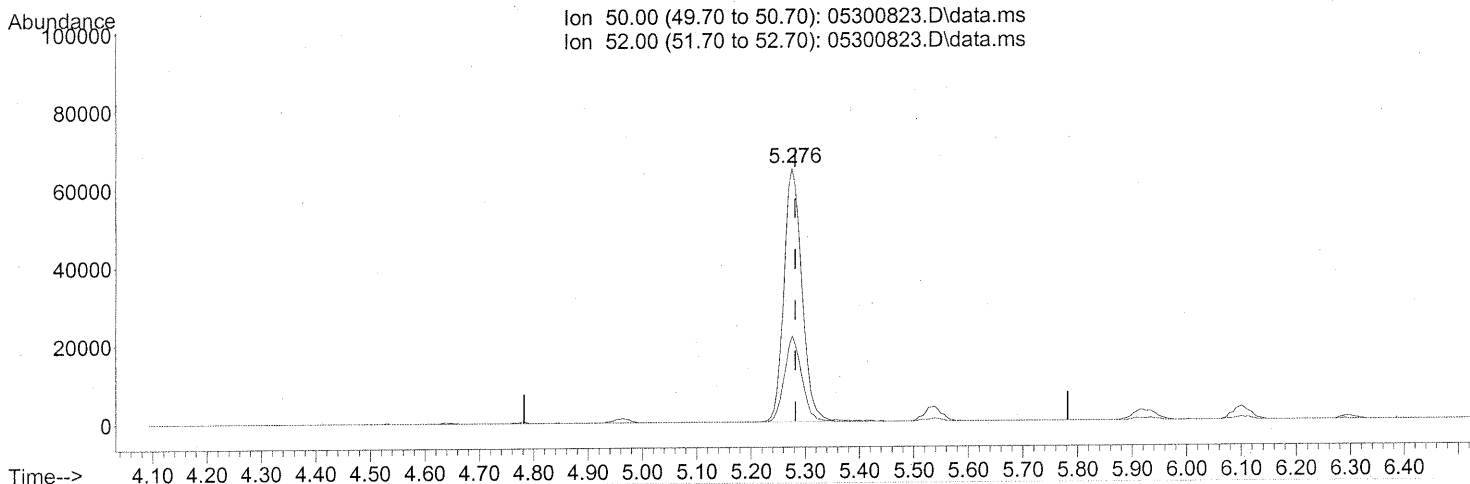
response 17923

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.78
100.90	9.30	9.00
102.90	6.00	5.54

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
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 Response via : Initial Calibration



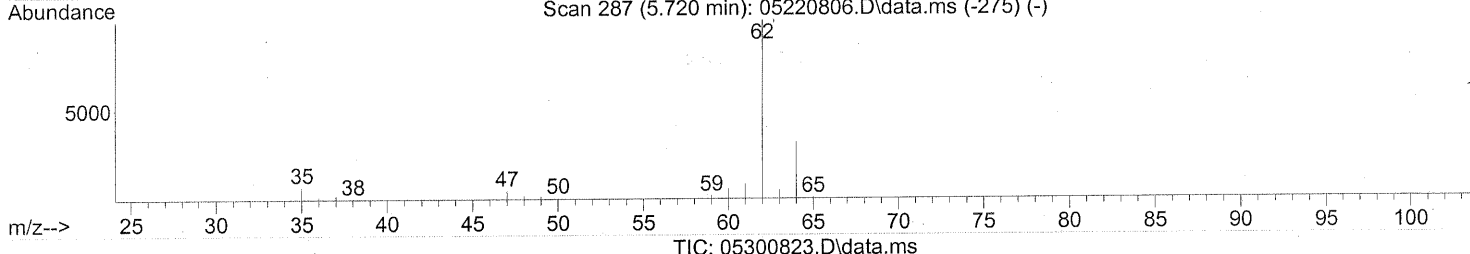
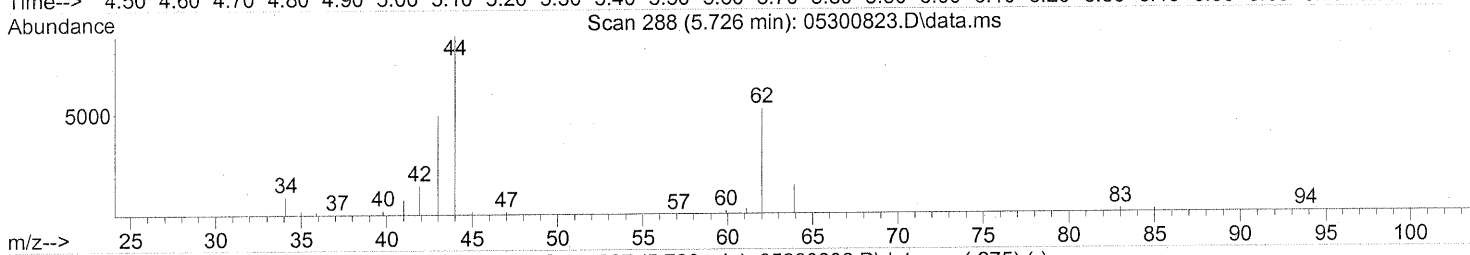
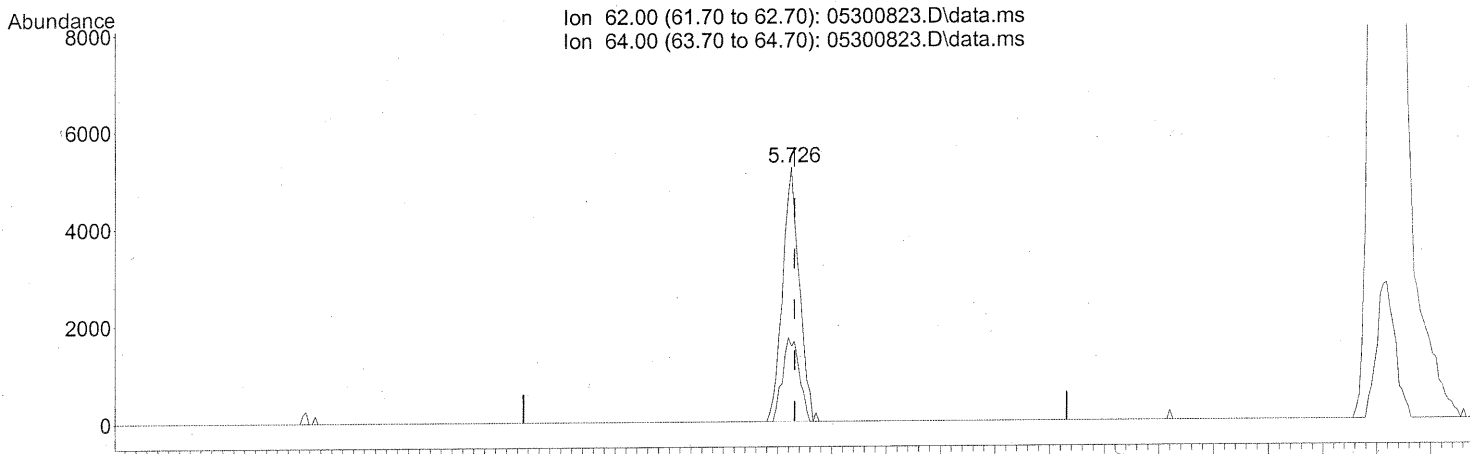
(4) Chloromethane (T)  
 5.276min (-0.006) 4.33ng  
 response 148889

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	32.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



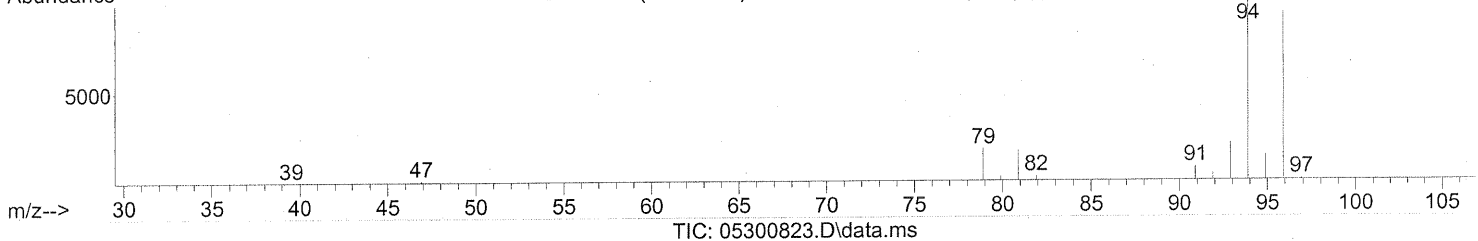
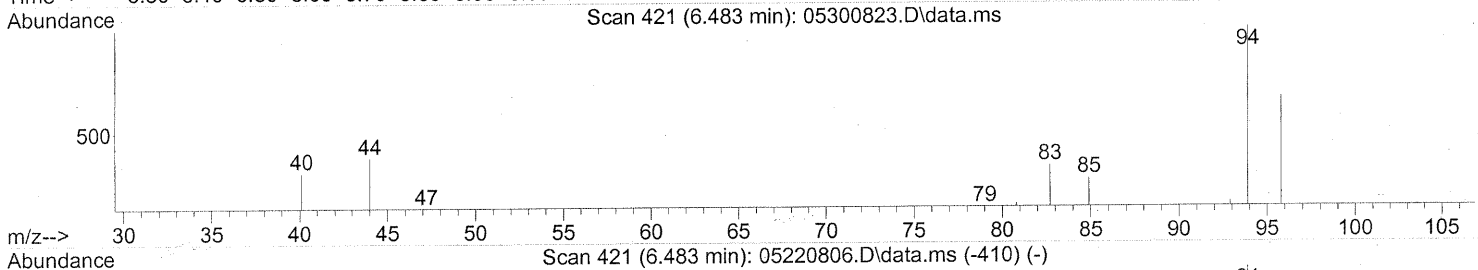
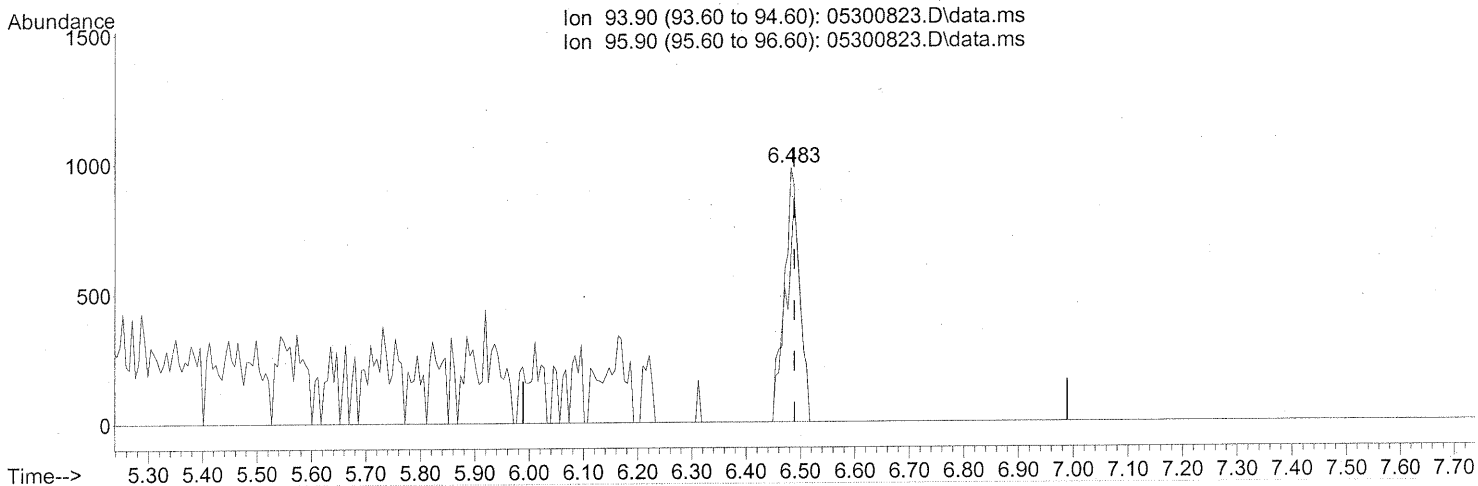
(6) Vinyl Chloride (T)  
 5.726min (-0.006) 0.33ng  
 response 11208

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	32.94
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
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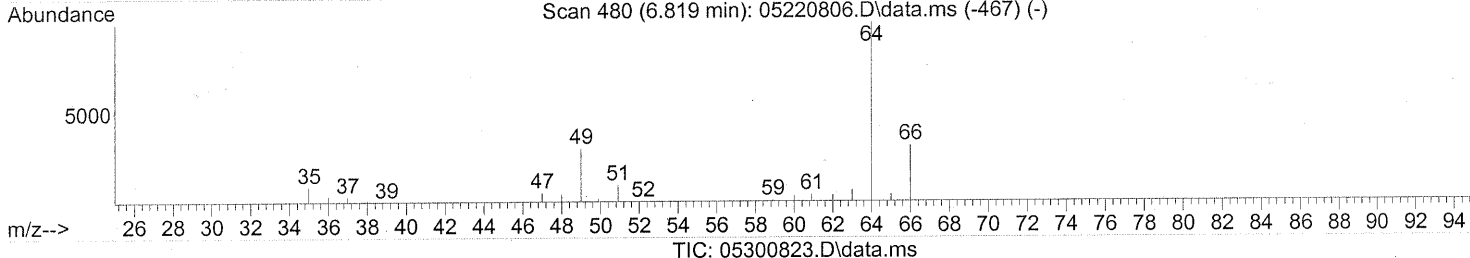
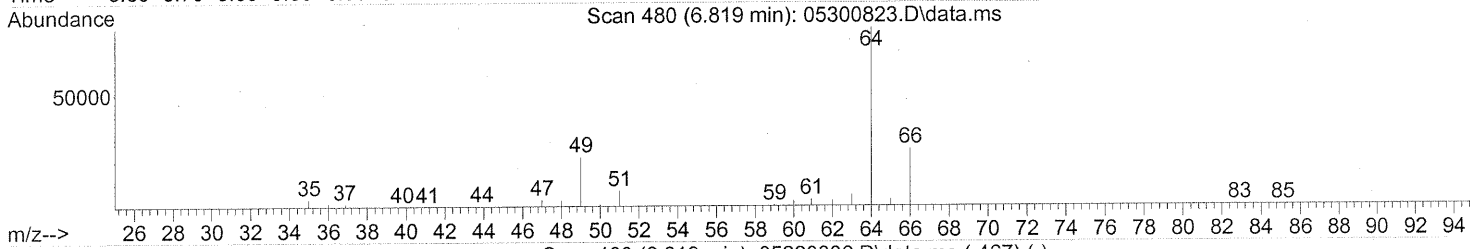
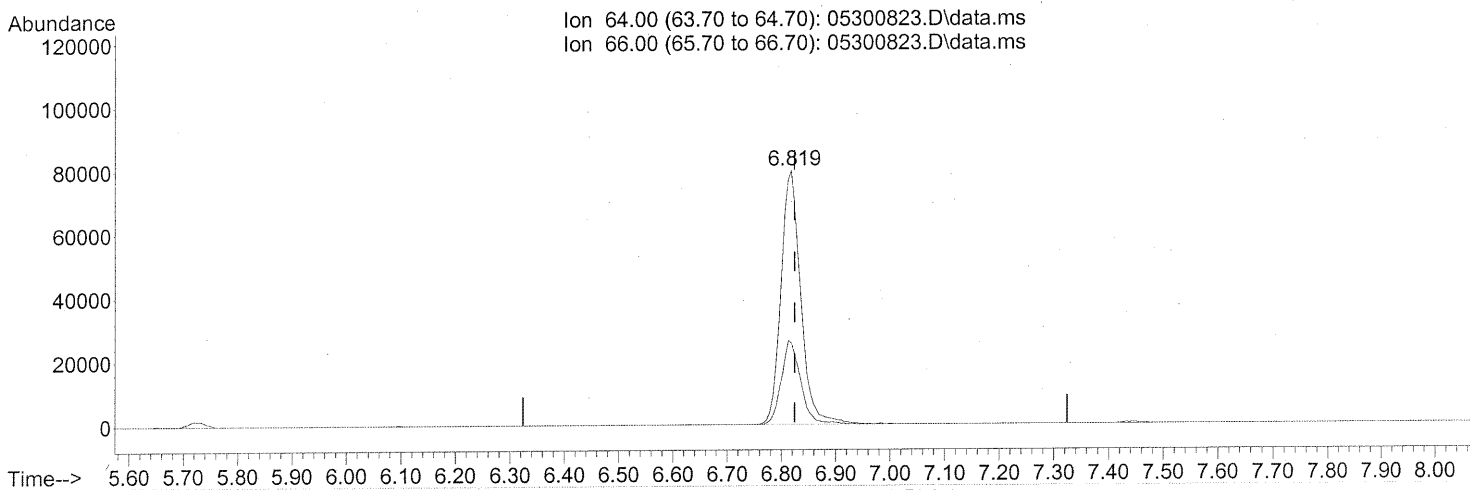
(8) Bromomethane (T)  
 6.483min (-0.006) 0.10ng  
 response 1882

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	87.25
0.00	0.00	0.00
0.00	0.00	0.00

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(9) Chloroethane (T)

6.819min (-0.006) 12.22ng

response 199576

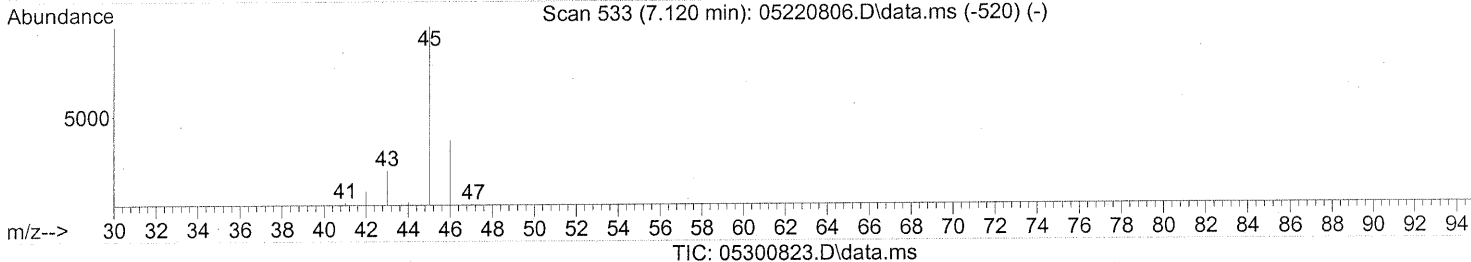
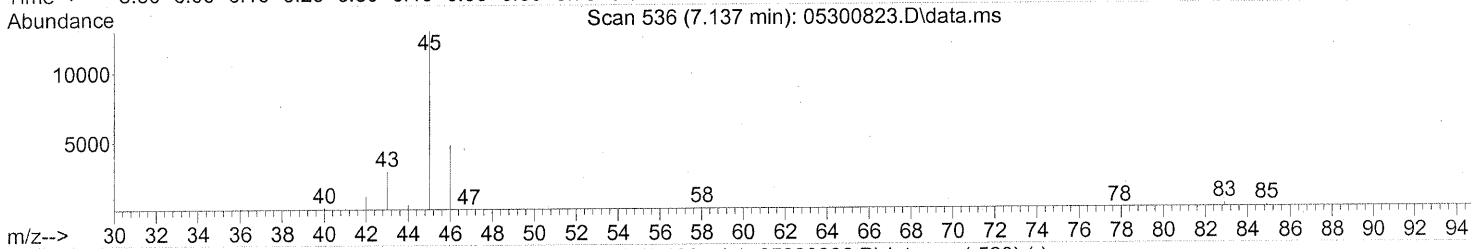
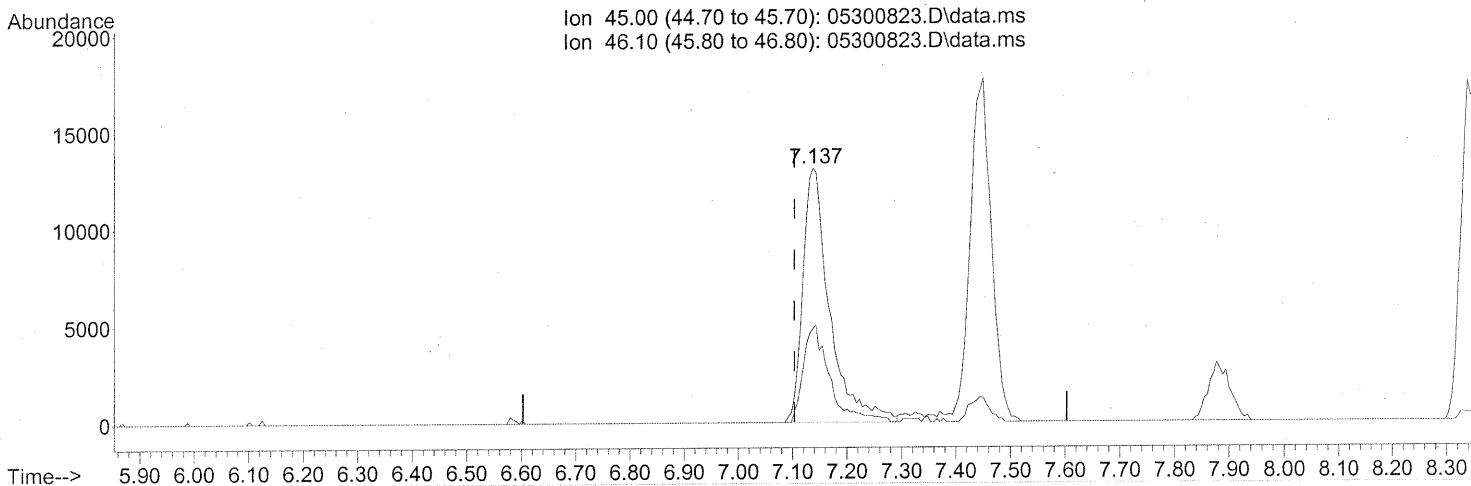
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	32.19
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

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 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.137min (+0.034) 2.34ng

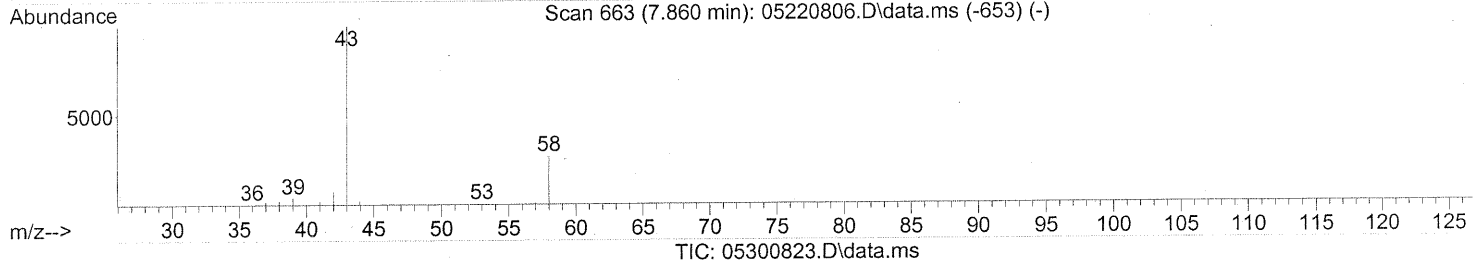
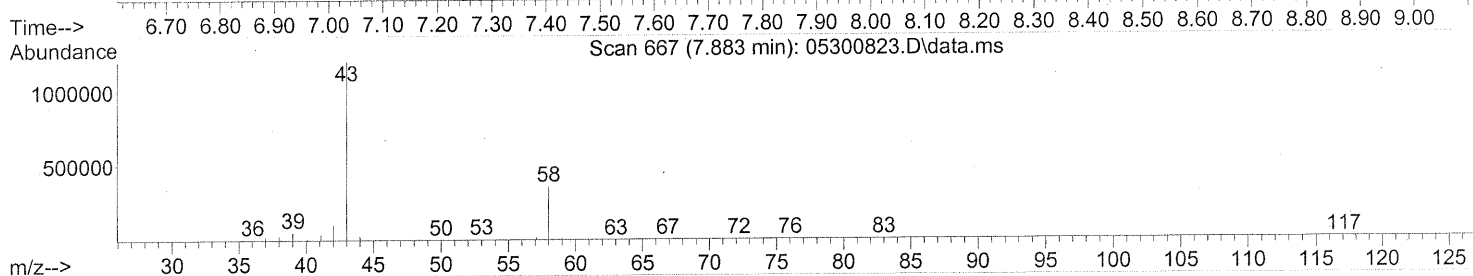
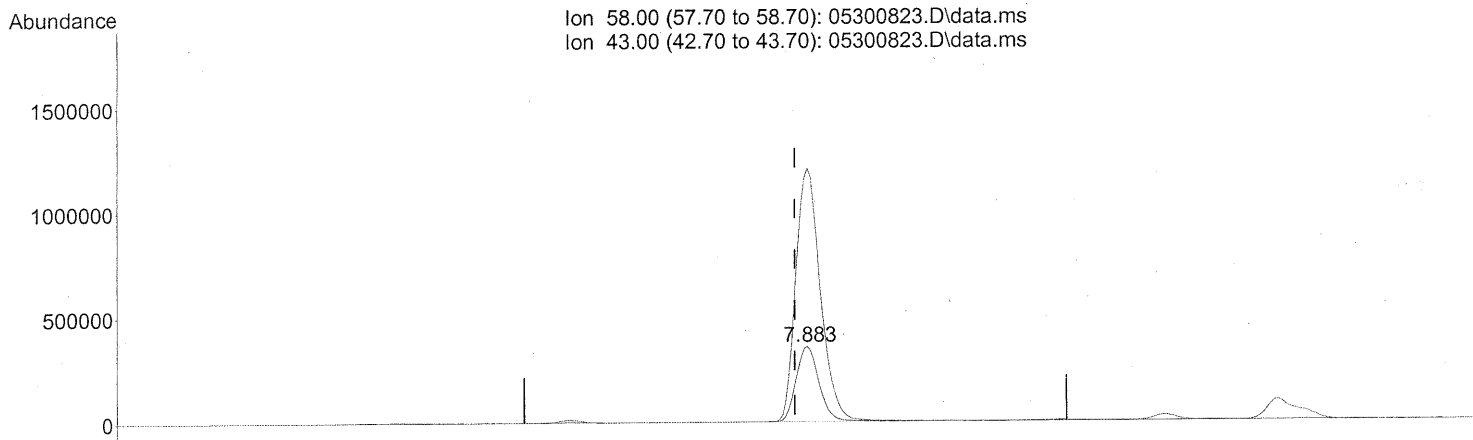
response 44762

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



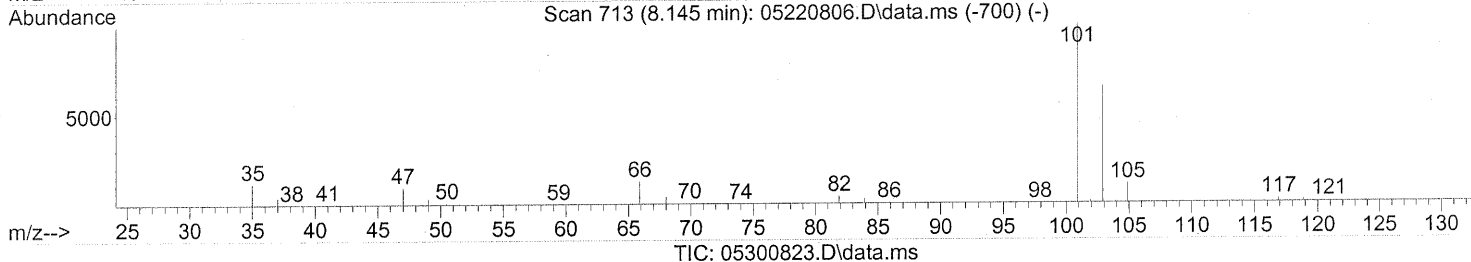
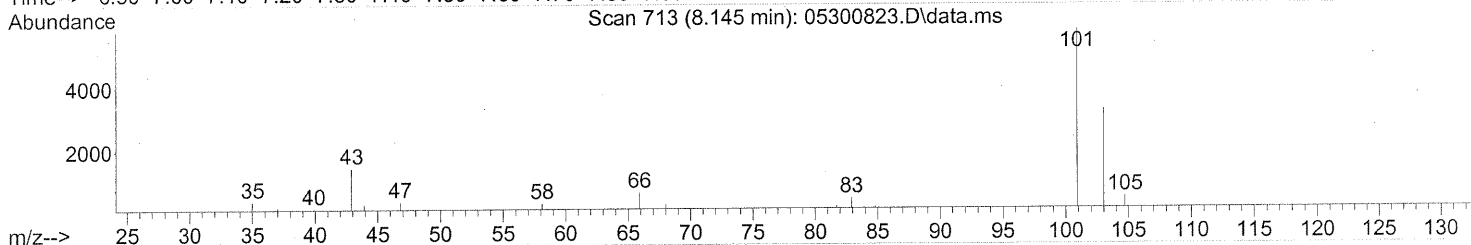
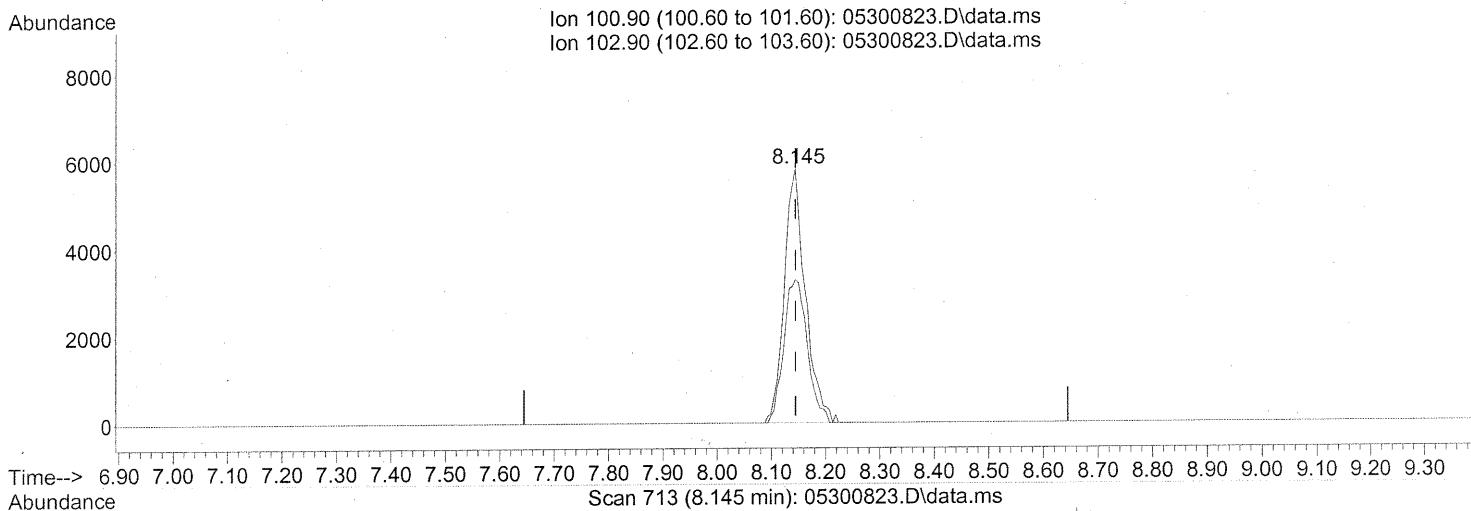
(13) Acetone (T)  
 7.883min (+0.023) 53.68ng  
 response 1053618

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	365.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.34ng

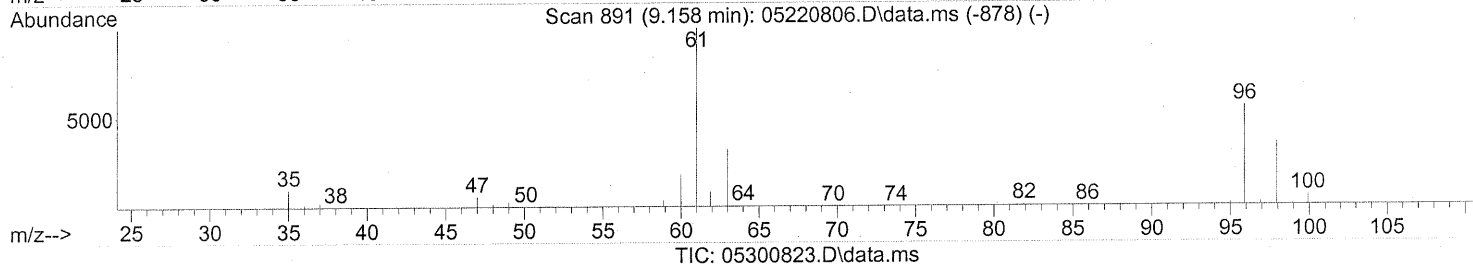
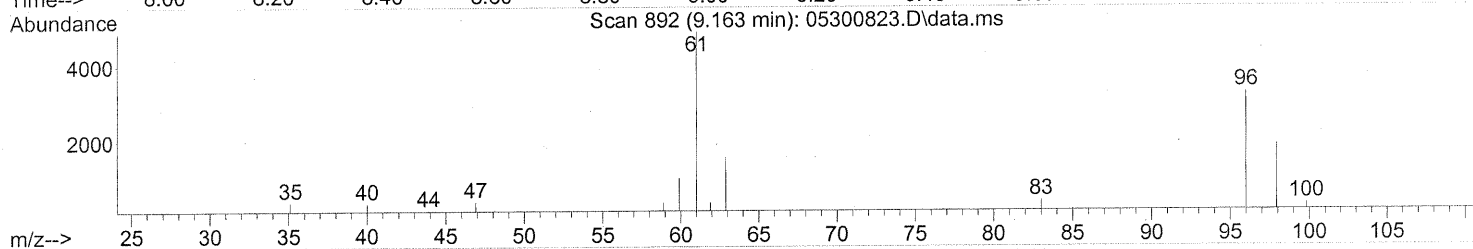
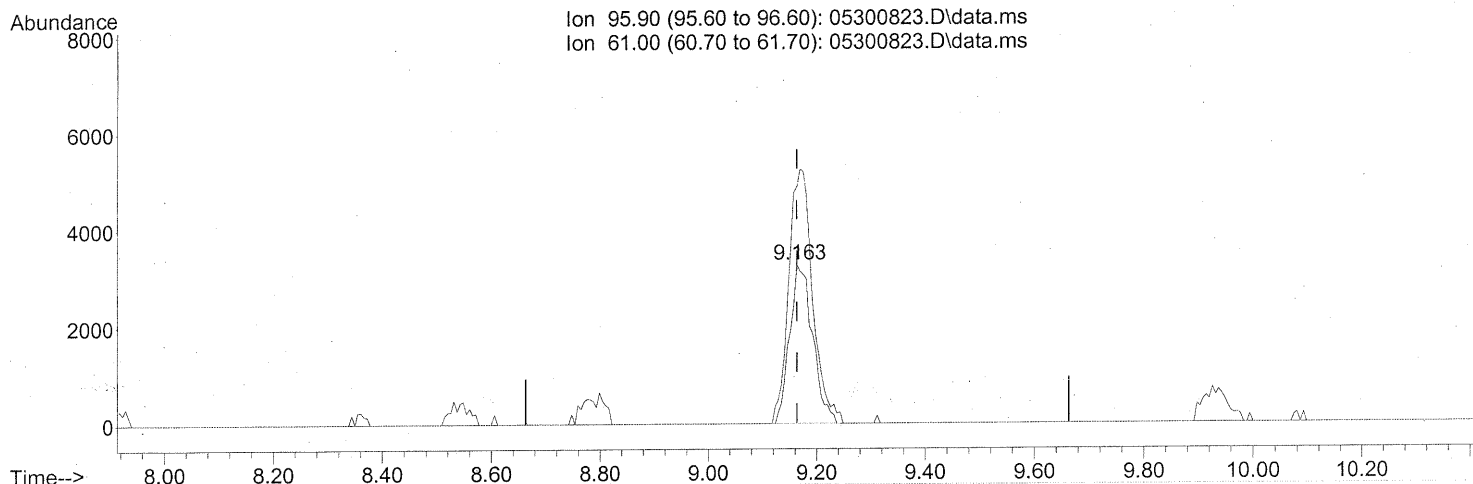
response 15691

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	62.95
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.163min (0.000) 0.48ng

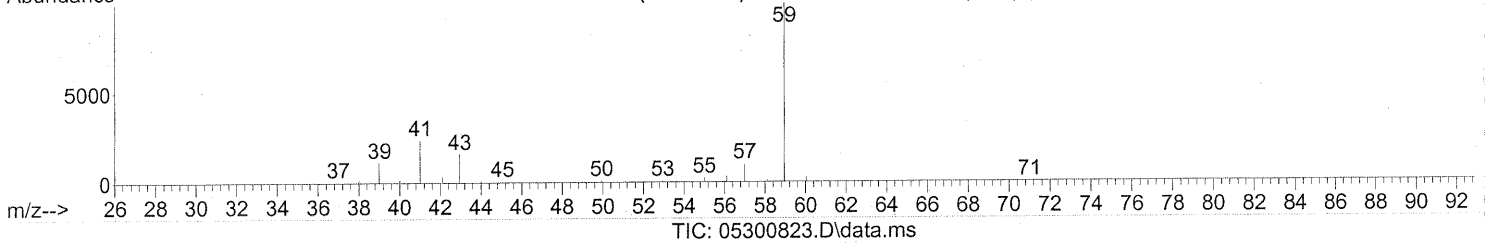
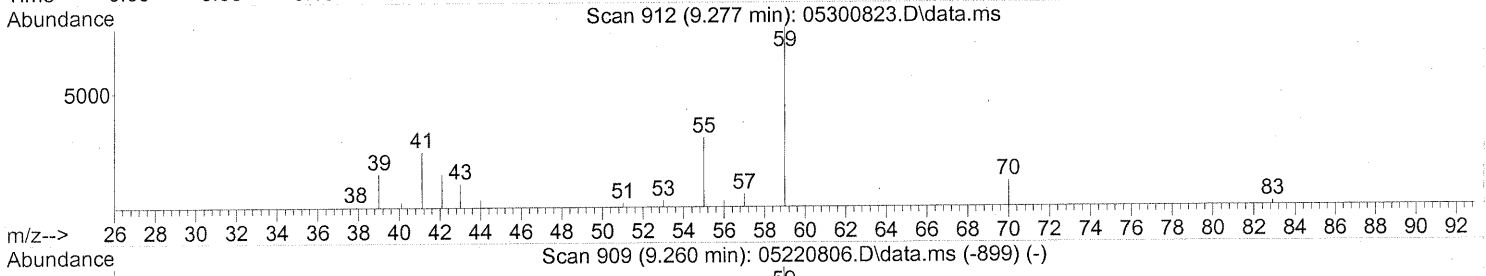
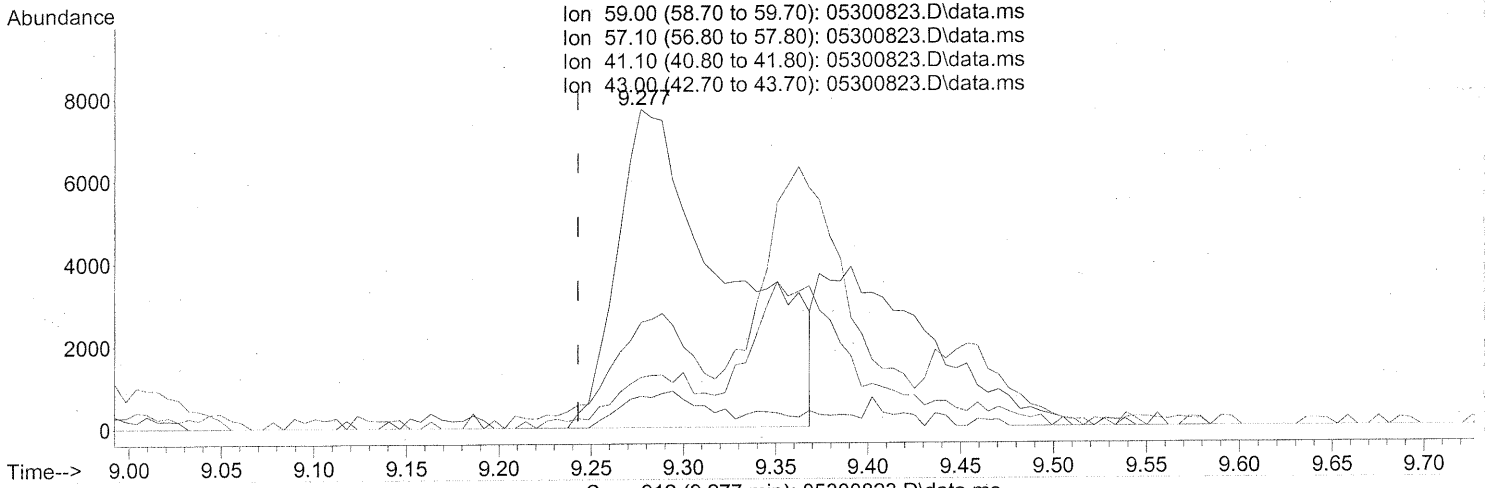
response 9571

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	167.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 05:11:44 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.277min (+0.034) 0.59ng  
 response 31676

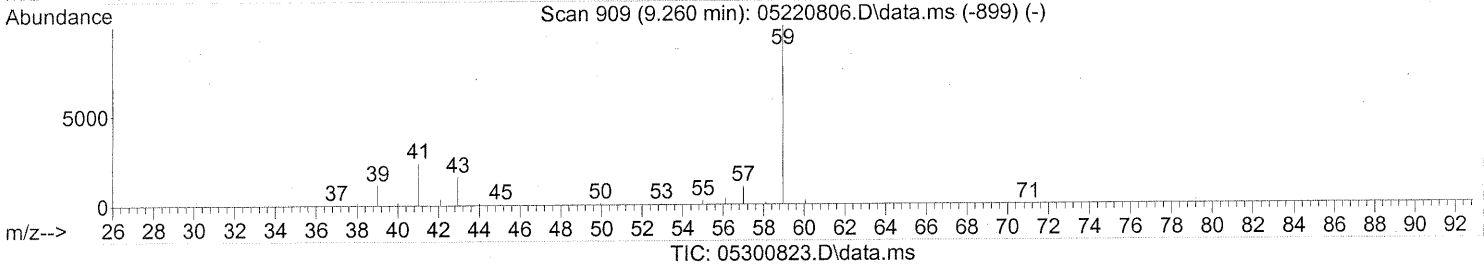
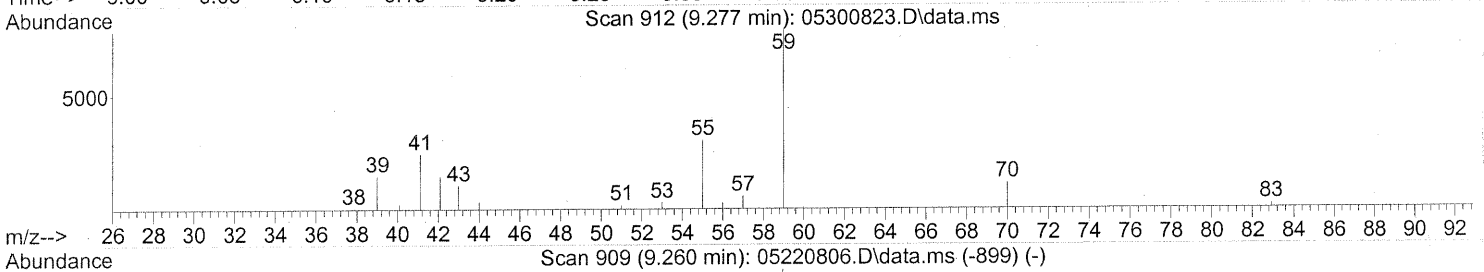
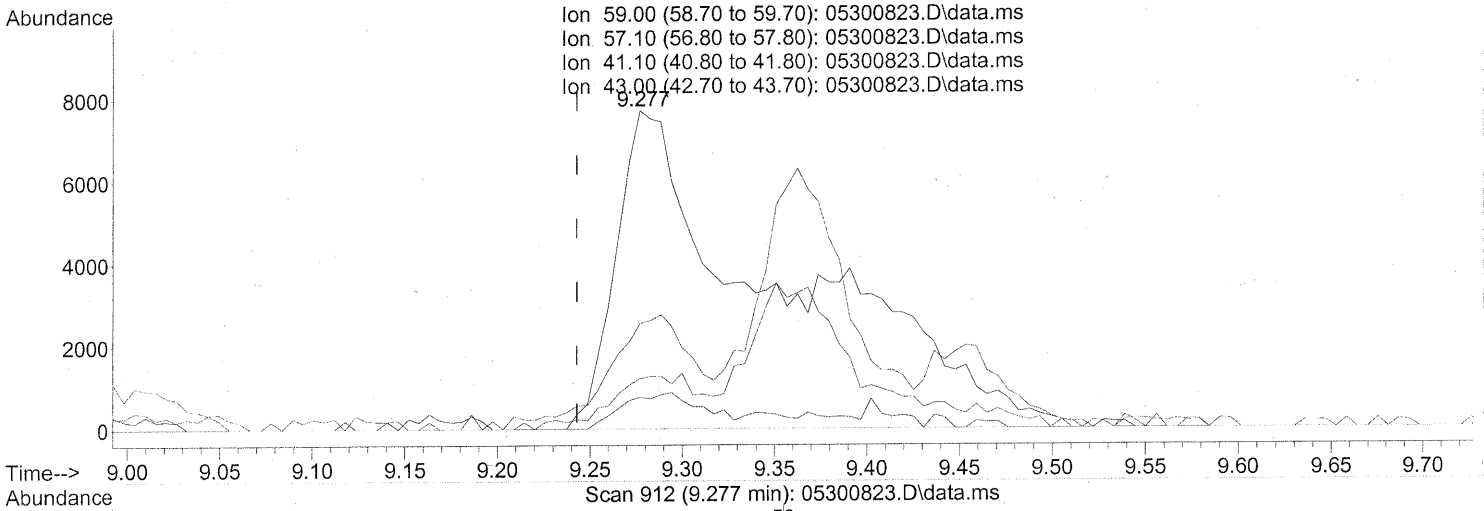
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	0.00#
43.00	12.30	0.00

*TAILING/SPLIT PEAK*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 31 05:11:44 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.277min (+0.034) 0.89ng m  
response 47519

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	0.00#
43.00	12.30	0.00

INT. THE WHOLE PEAK

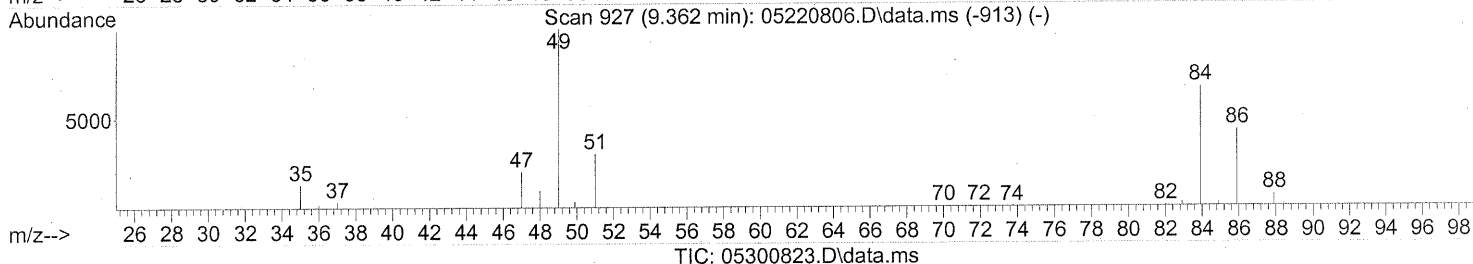
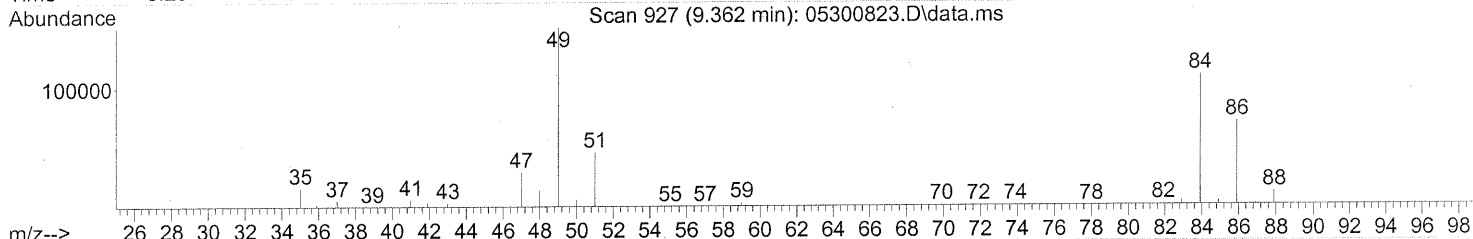
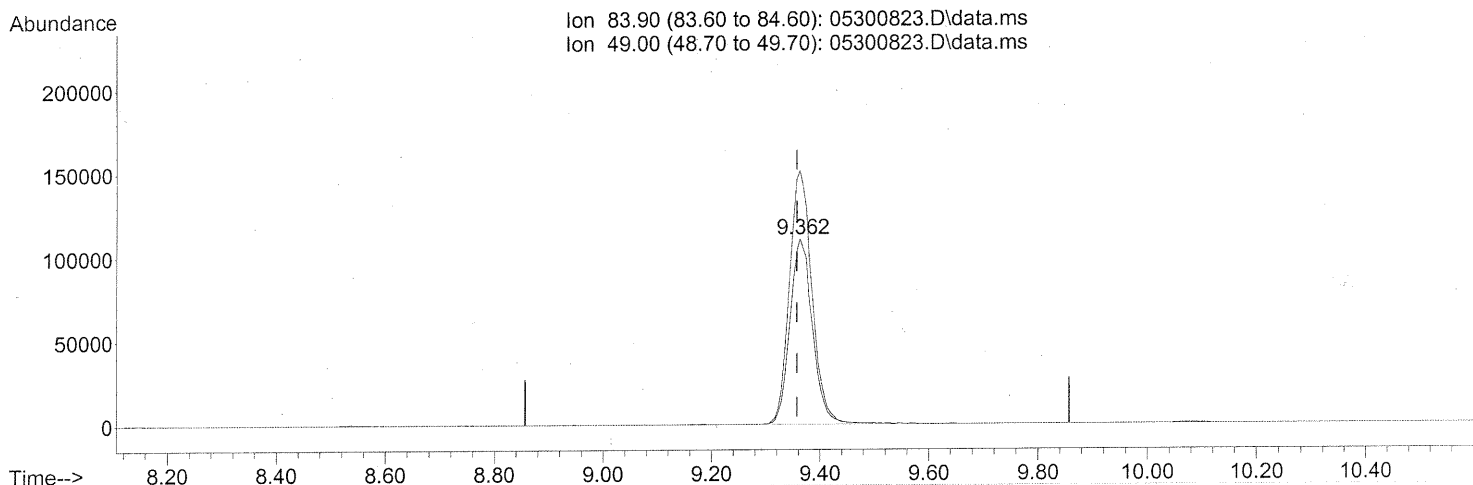
6/05/06

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 14.51ng

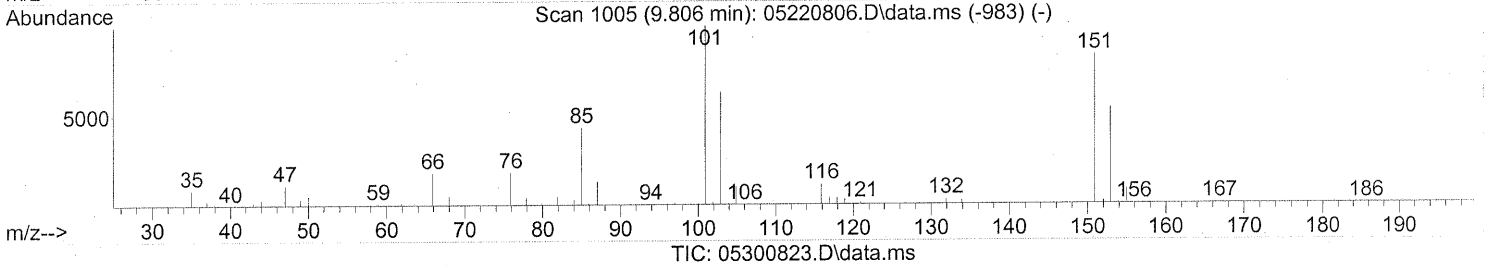
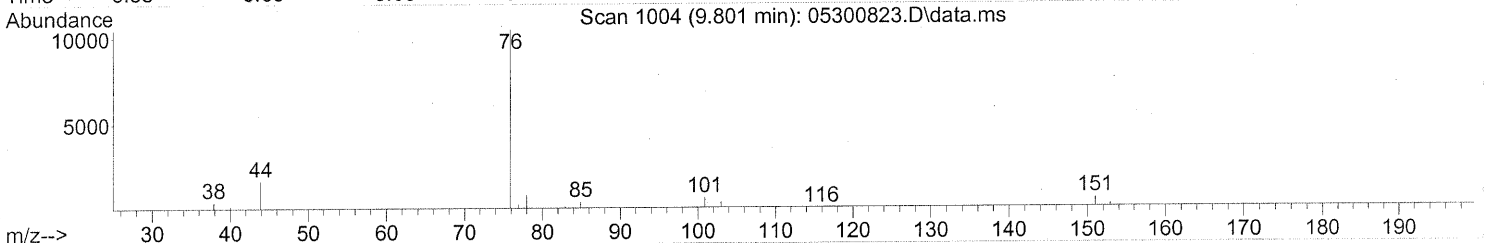
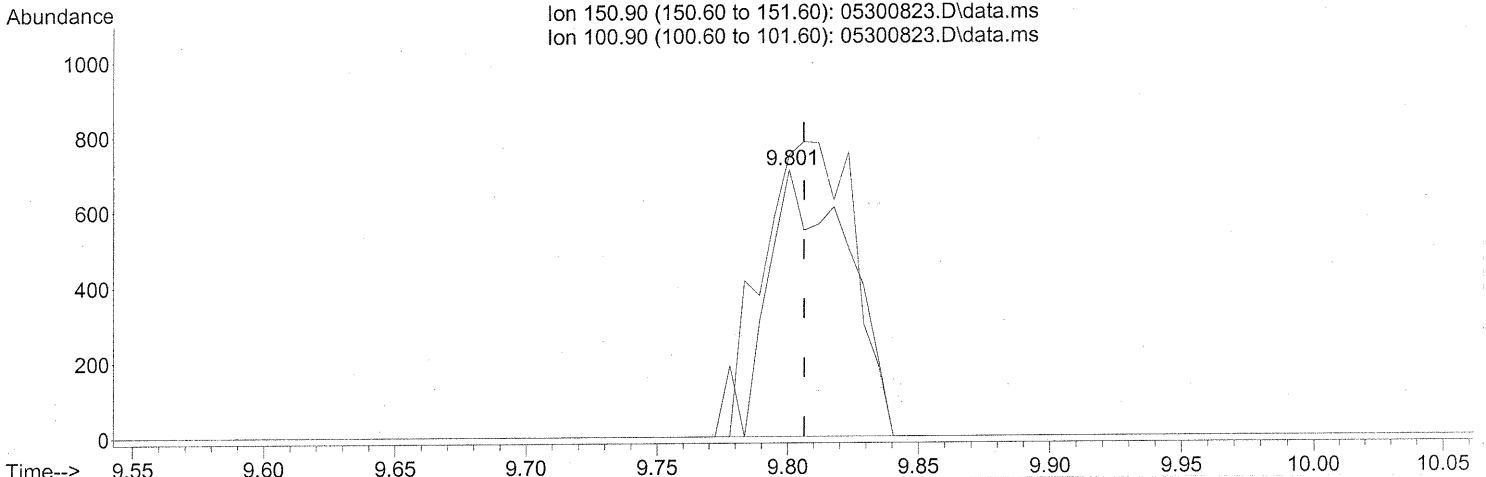
response 318201

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	137.57#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.07ng

response 1548

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	122.42
0.00	0.00	0.00
0.00	0.00	0.00

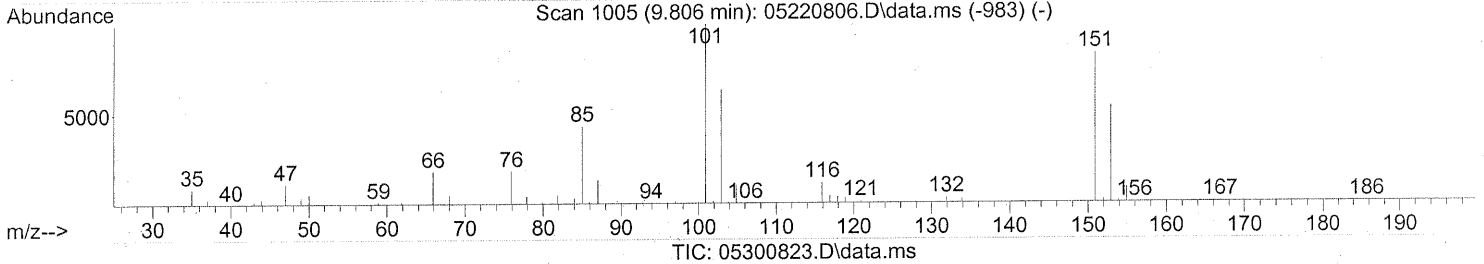
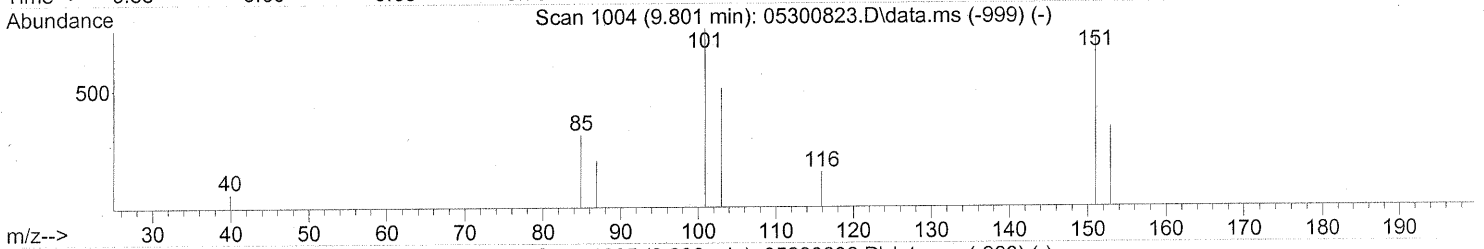
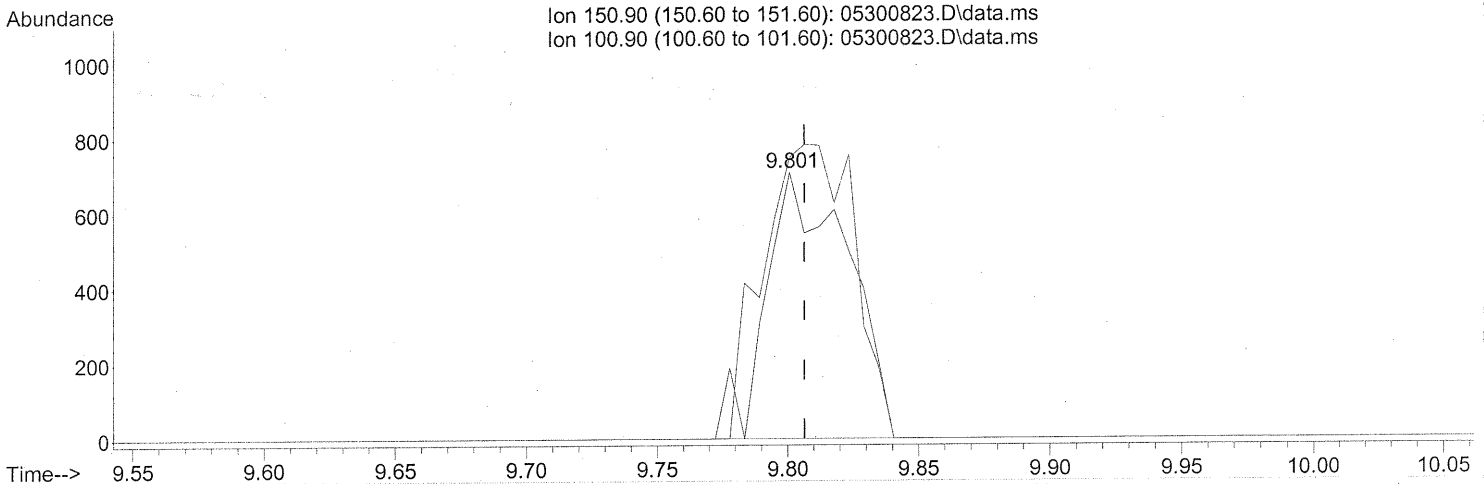
**BEFORE SUBTRACTION**



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.801min (-0.006) 0.07ng

response 1548

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	122.42
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

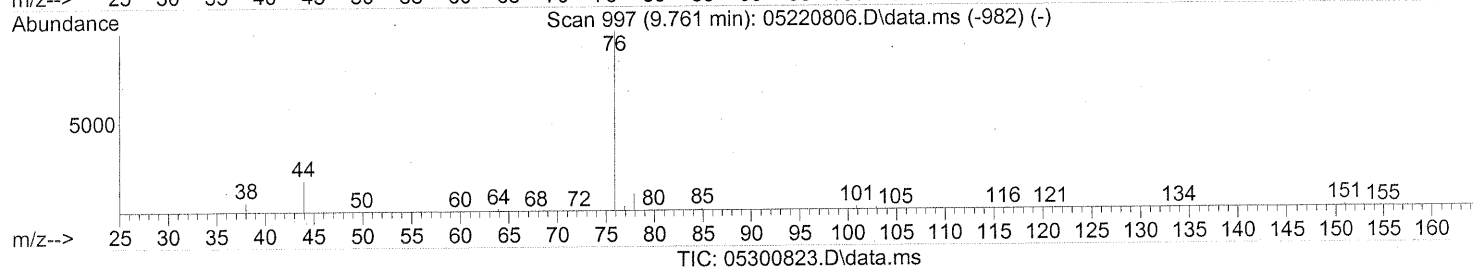
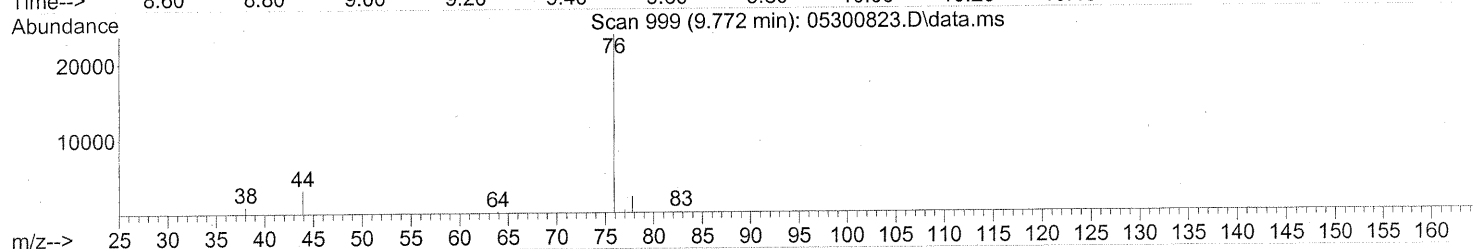
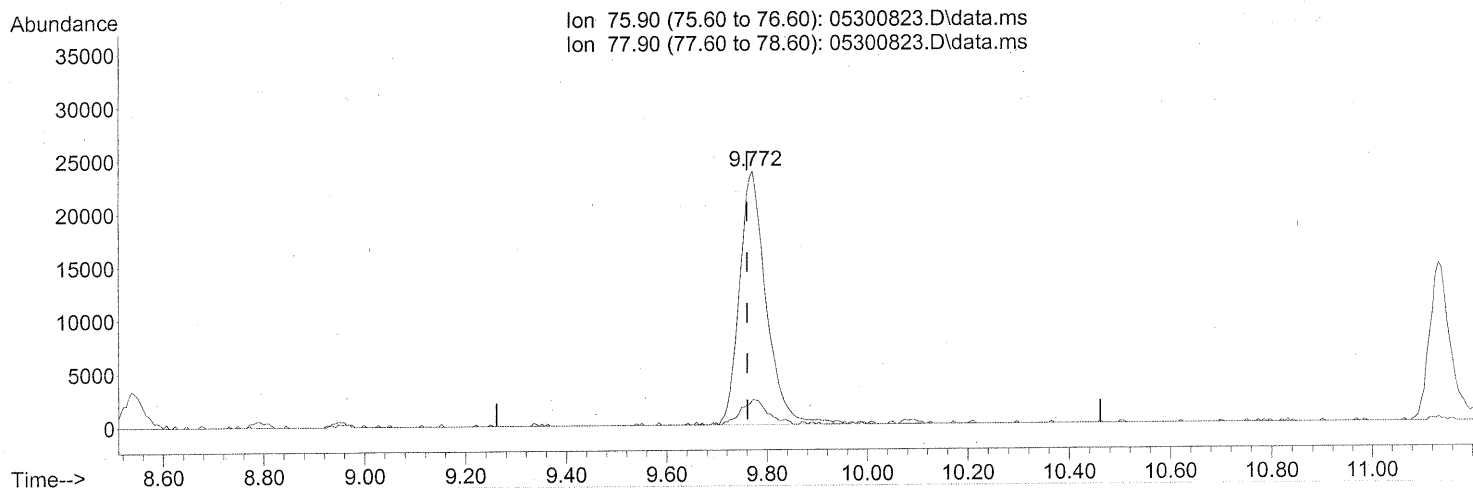
*FOG/05/08*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.772min (+0.011) 1.04ng

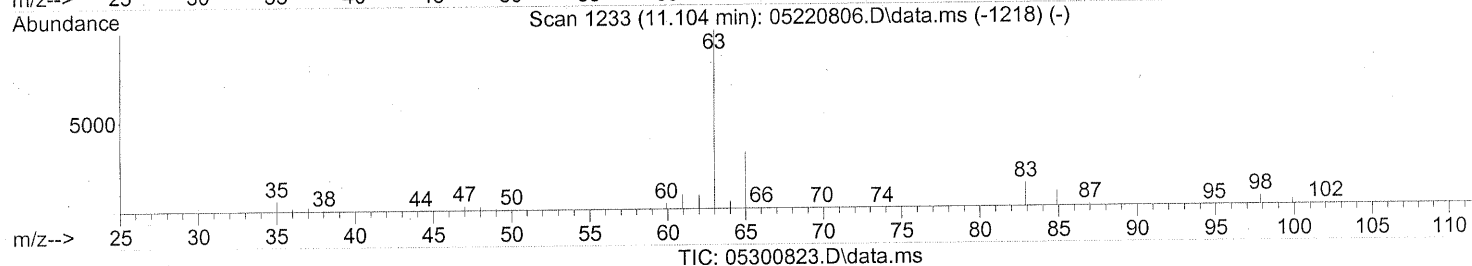
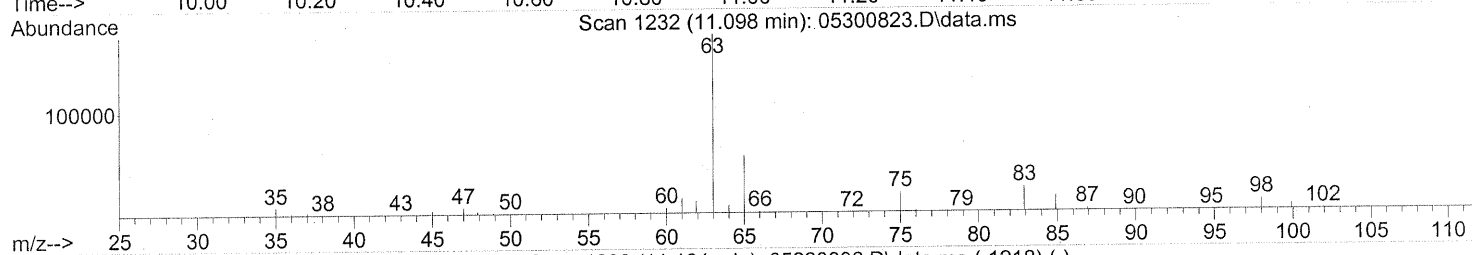
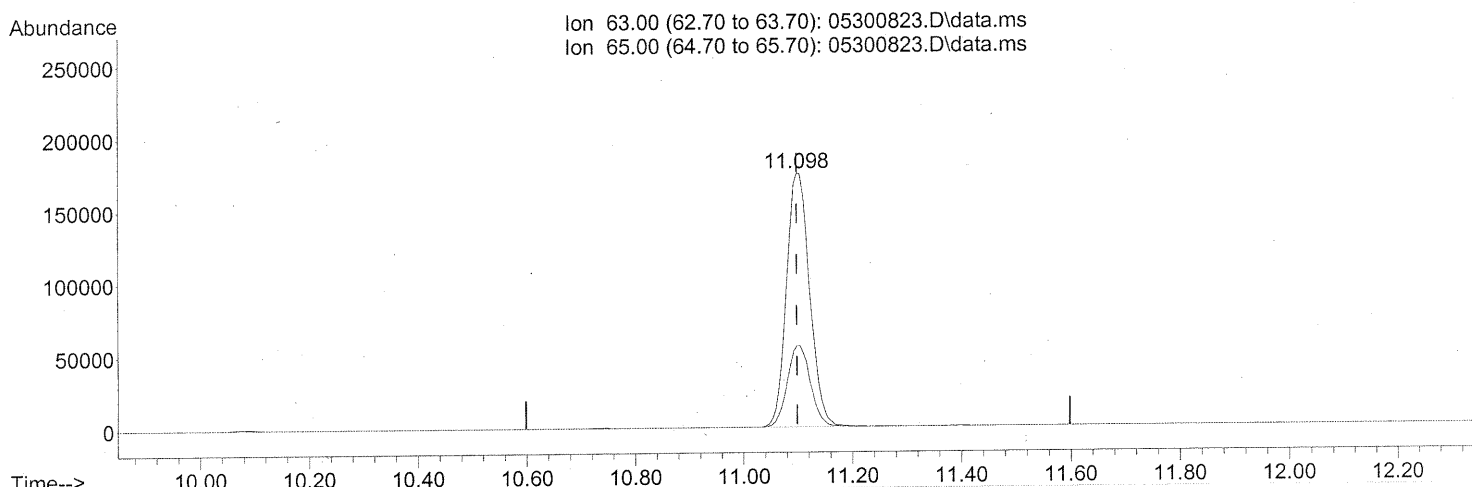
response 86698

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (0.000) 13.53ng

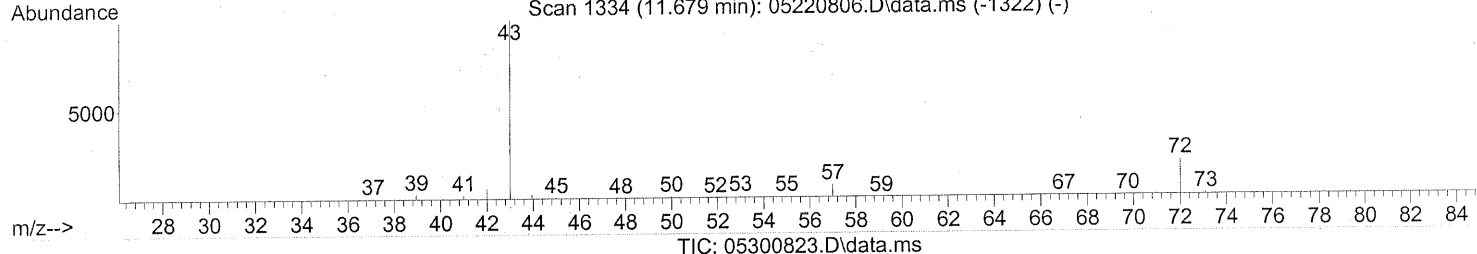
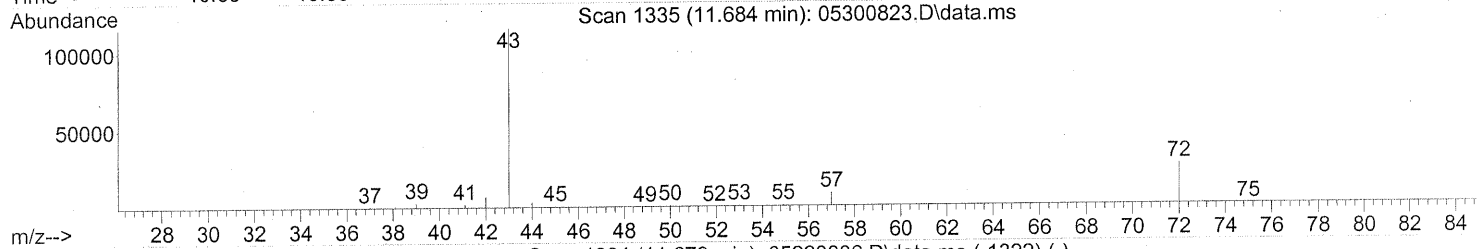
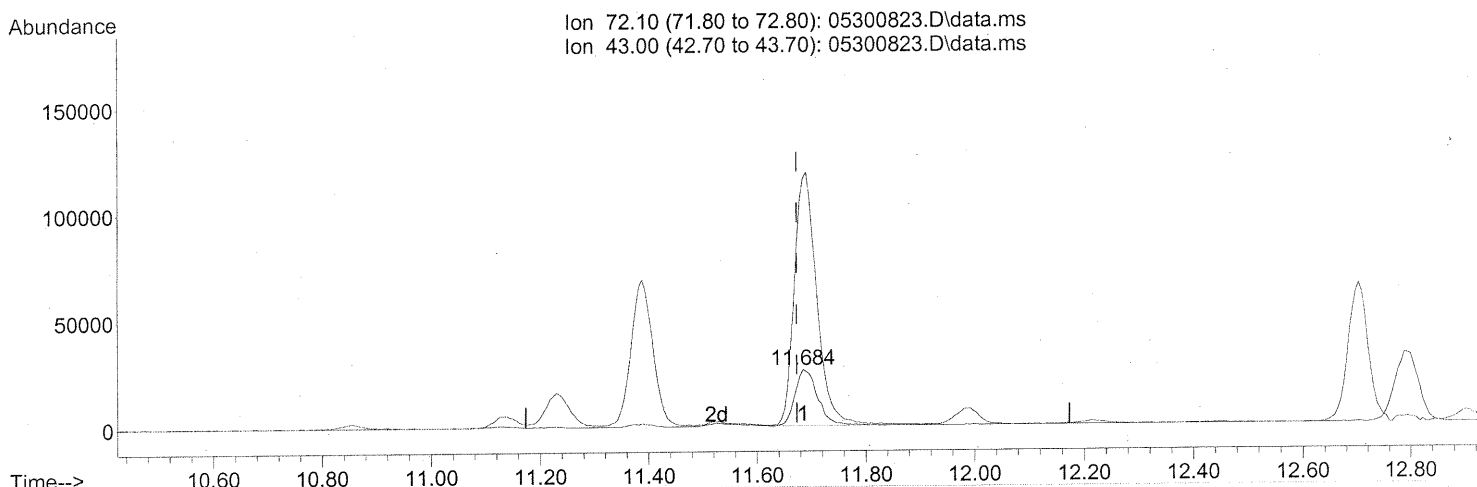
response 514963

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.684min (+0.011) 5.26ng

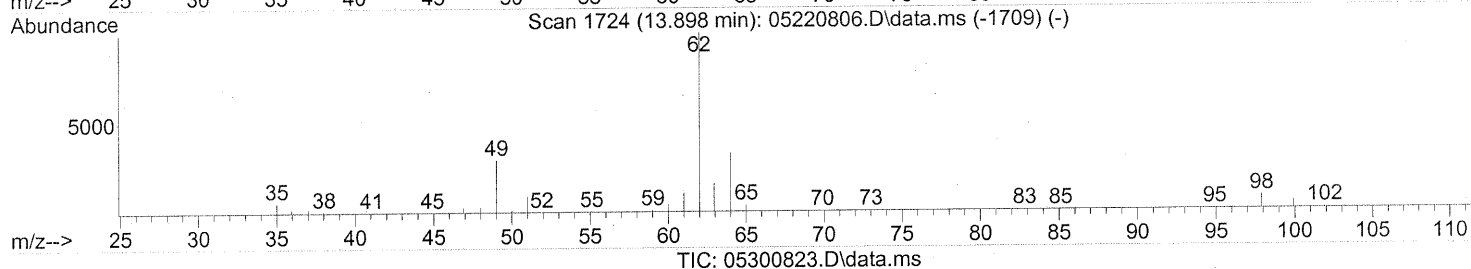
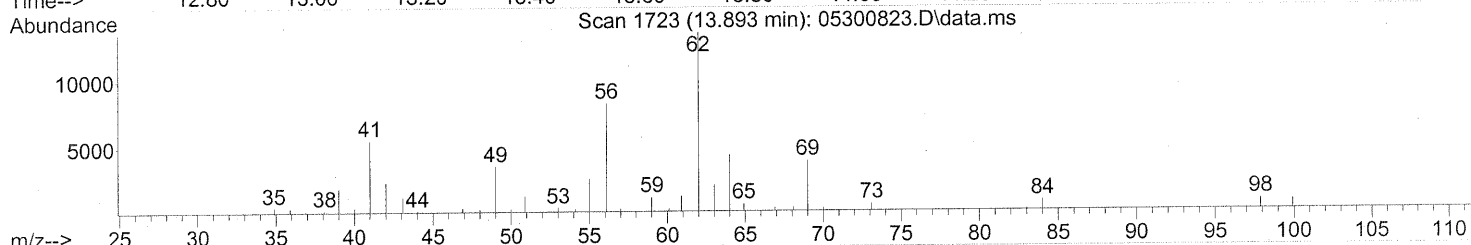
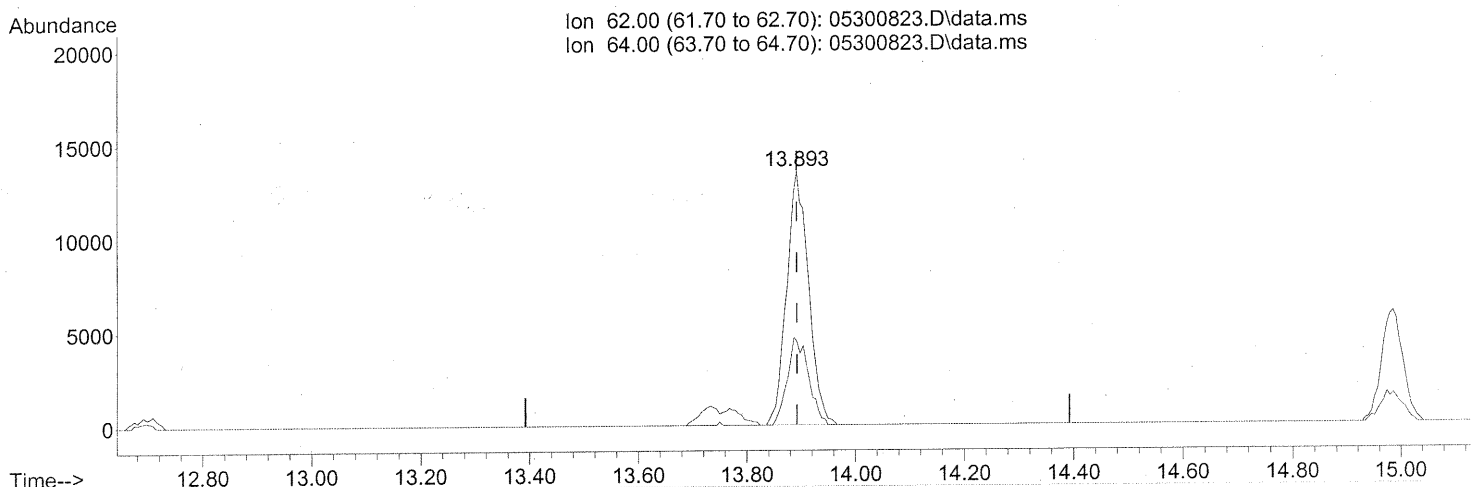
response 75376

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	451.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.893min (0.000) 1.17ng

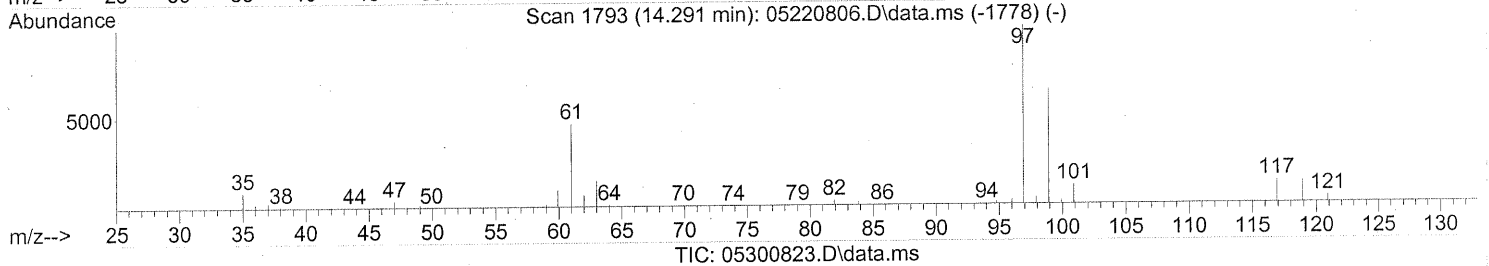
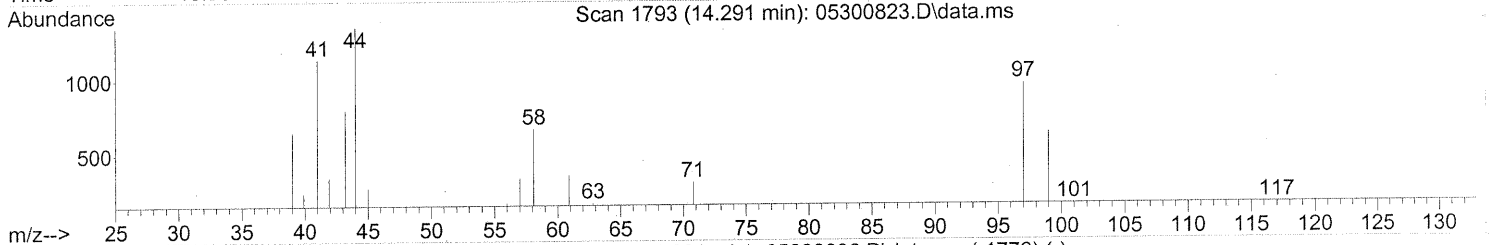
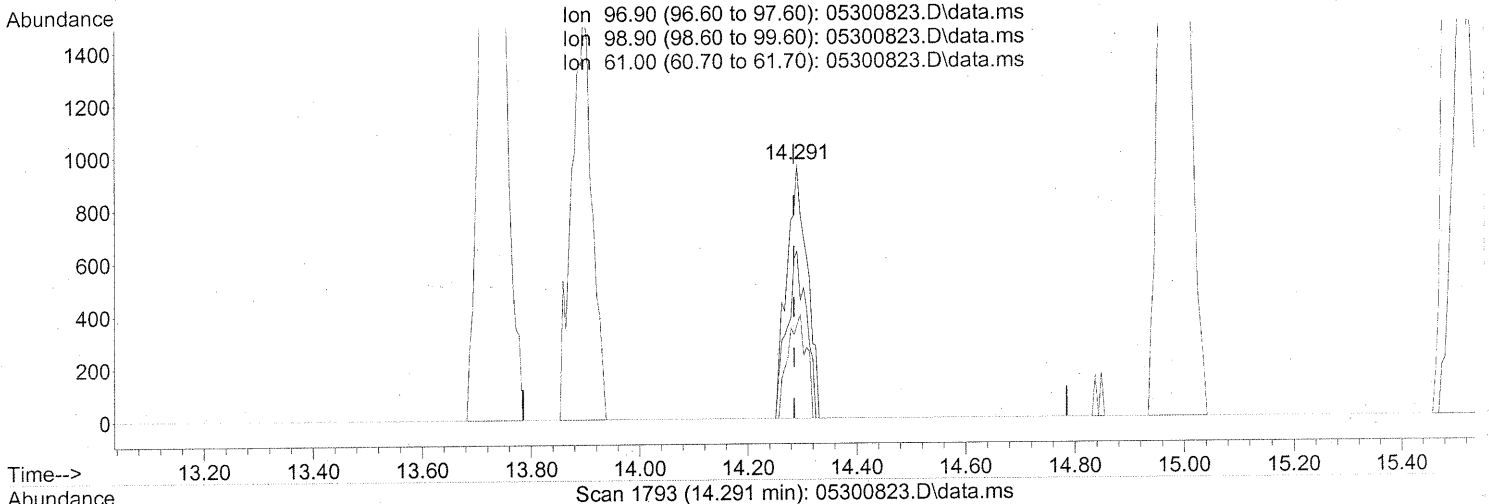
response 37669

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	33.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.07ng

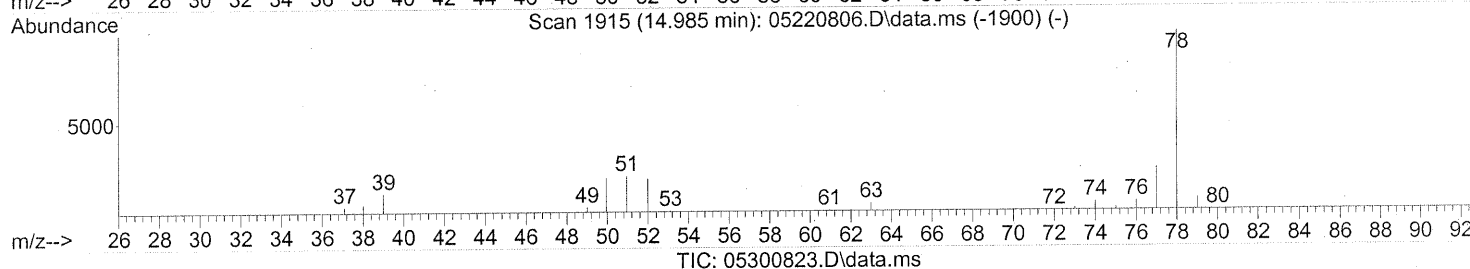
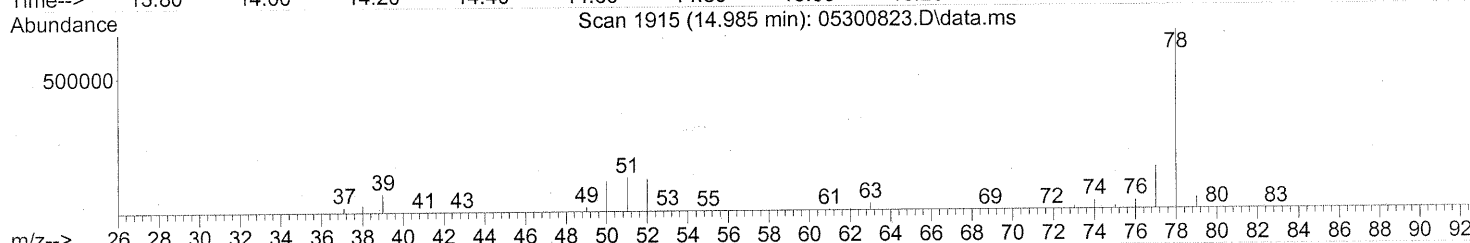
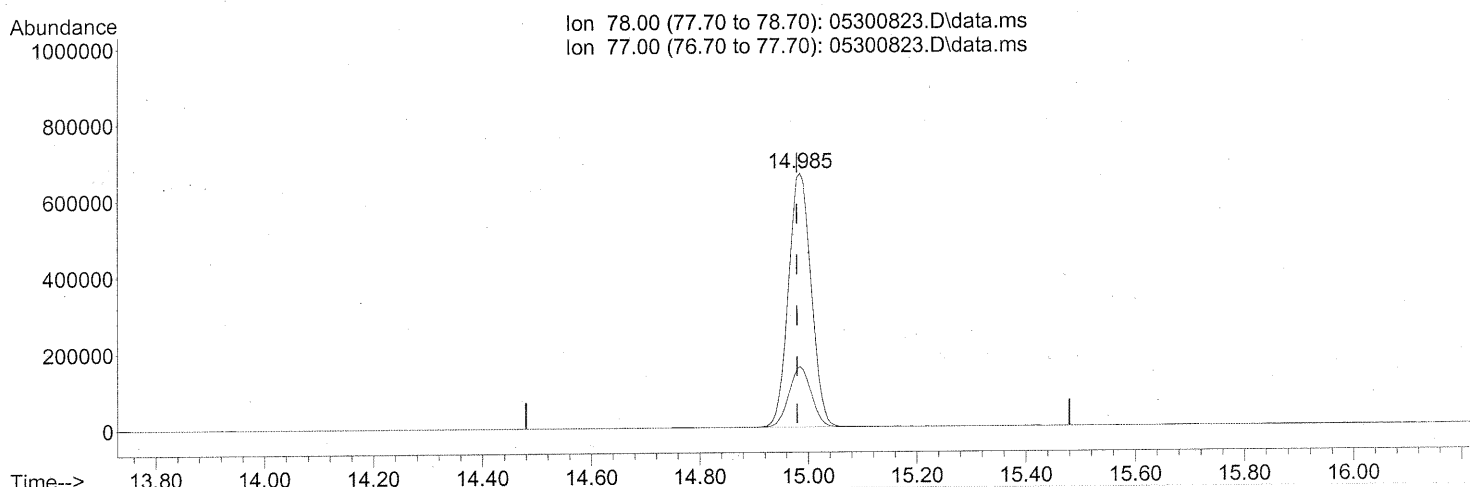
response 2492

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	63.08
61.00	50.50	37.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



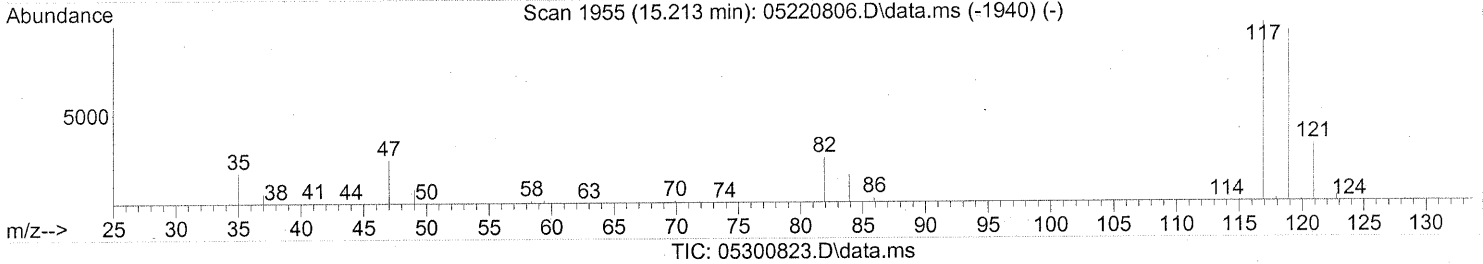
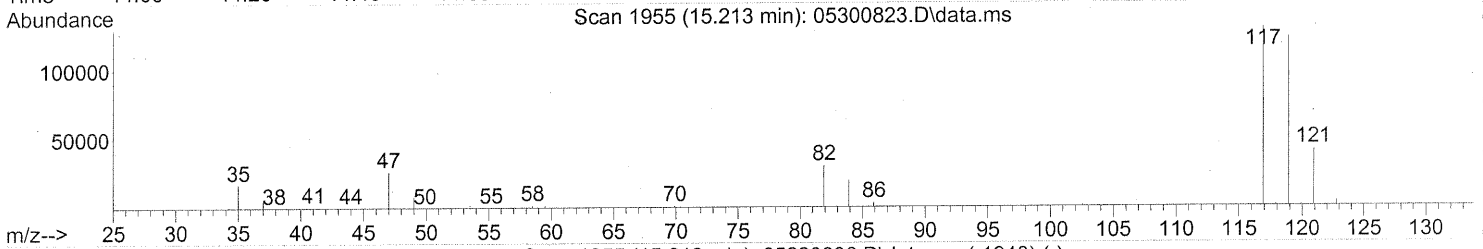
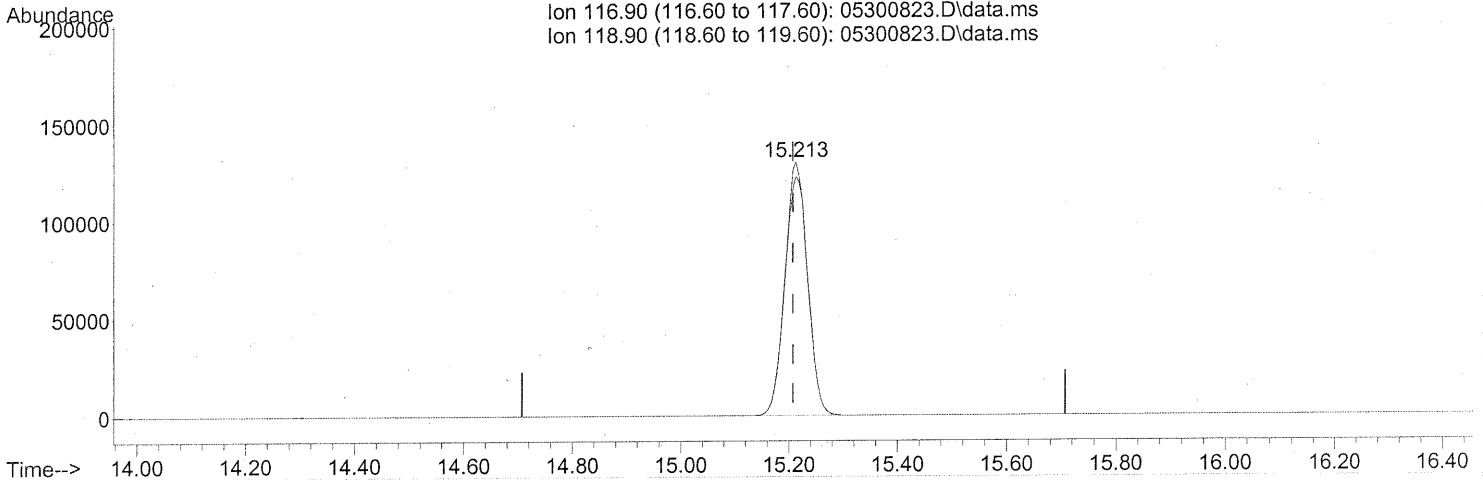
(41) Benzene (T)  
14.985min (+0.006) 24.65ng  
response 1929895

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 12.52ng

response 377573

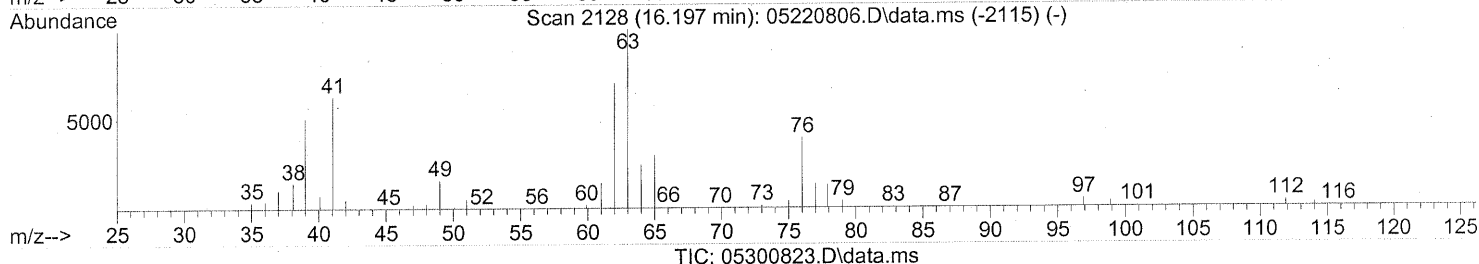
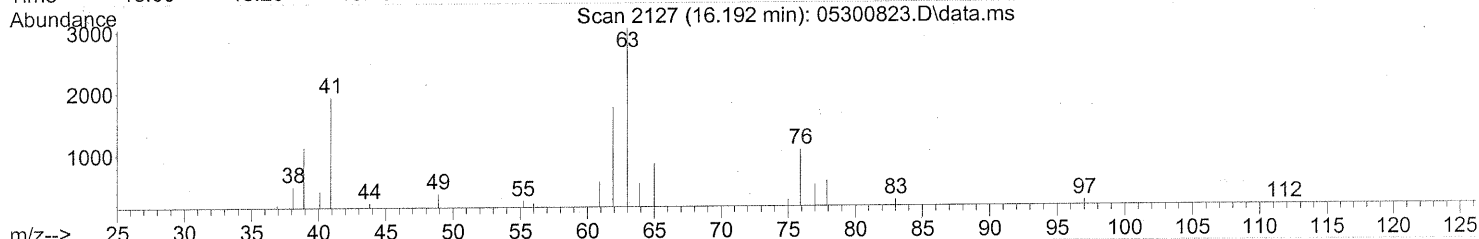
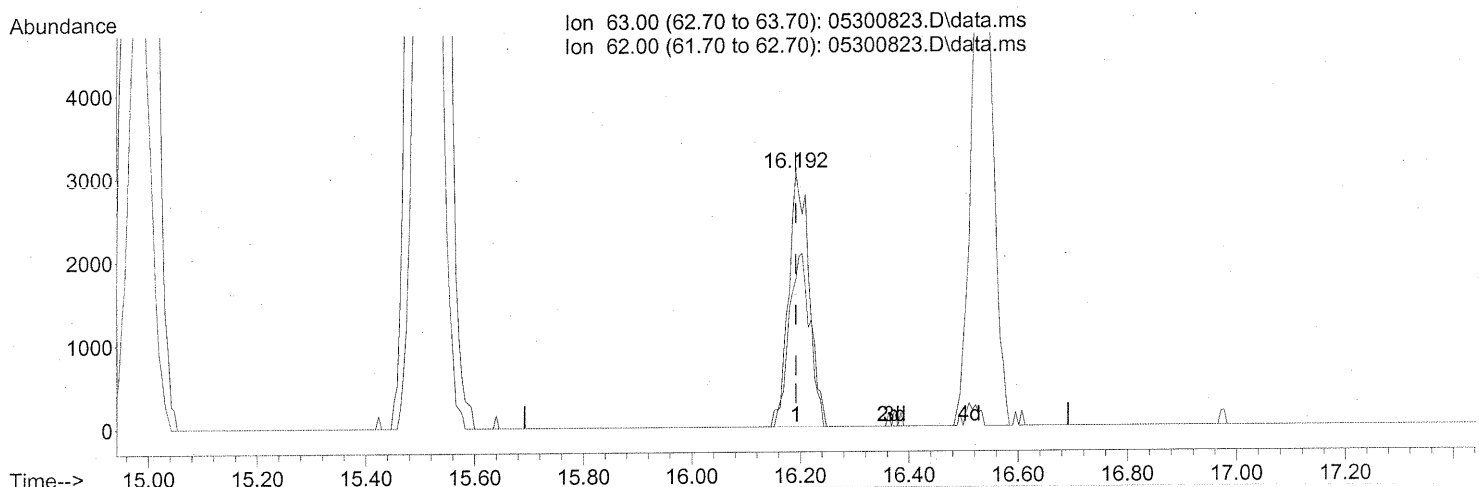
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.41
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.192min (0.000) 0.38ng

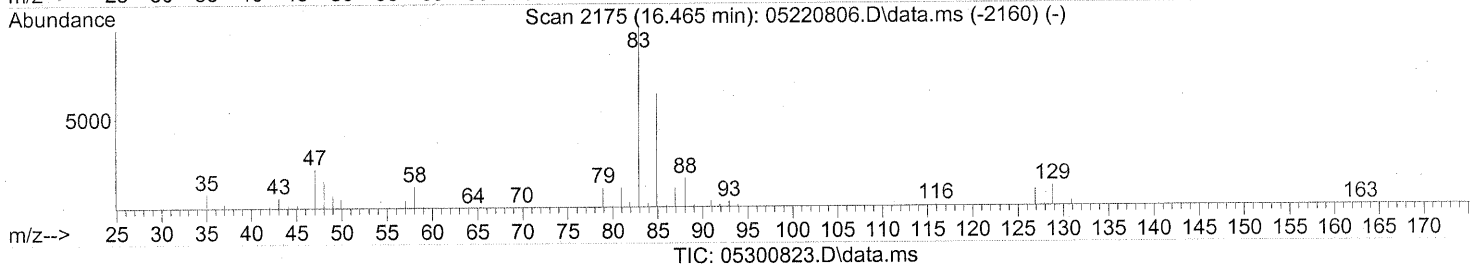
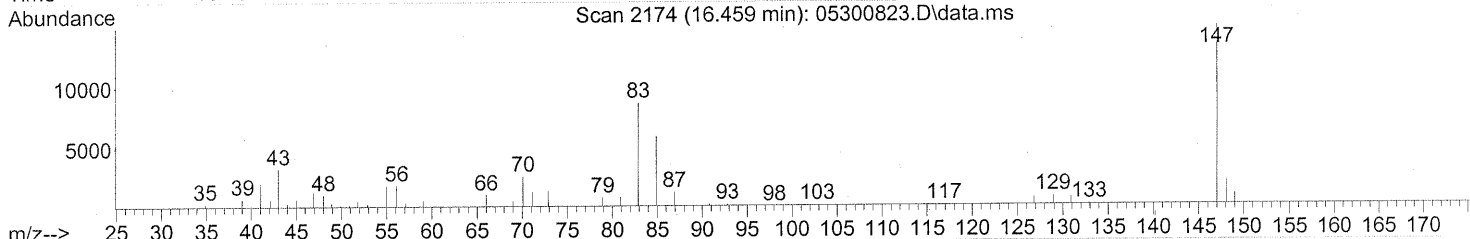
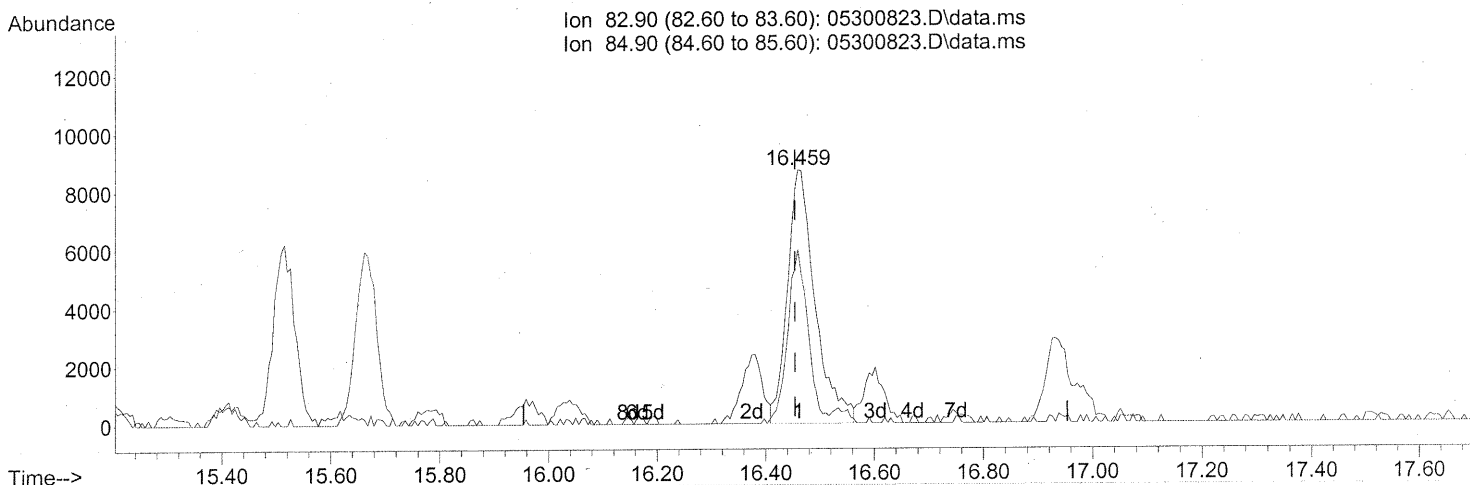
response 7962

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	69.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 1.16ng

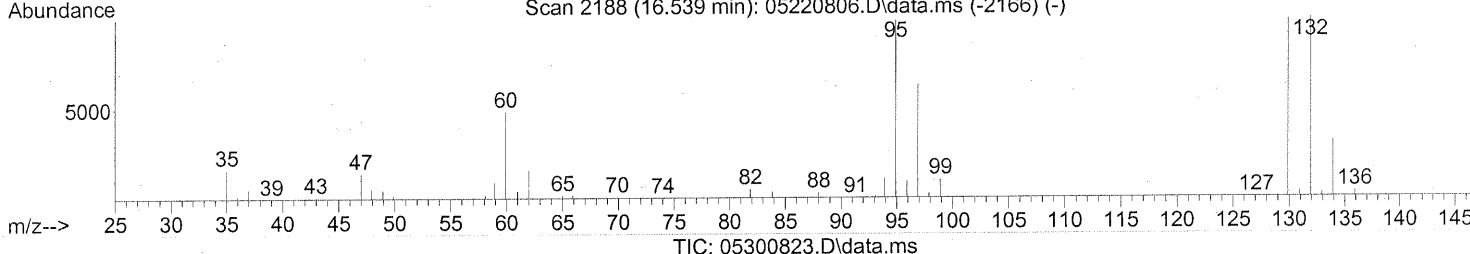
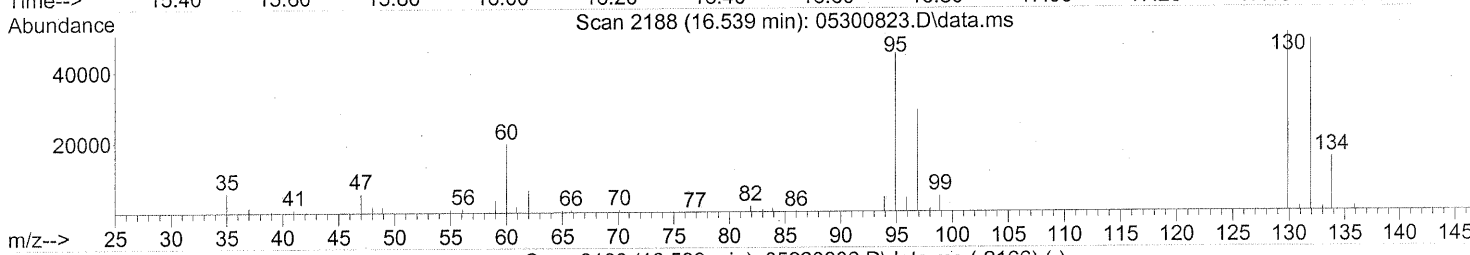
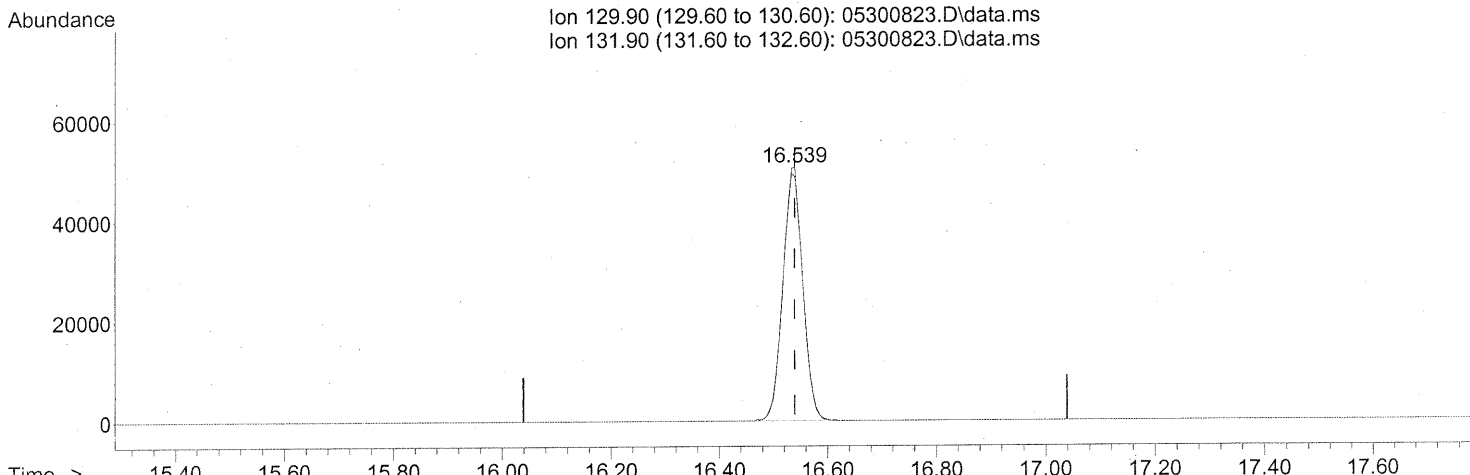
response 30728

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	49.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.539min (0.000) 5.30ng

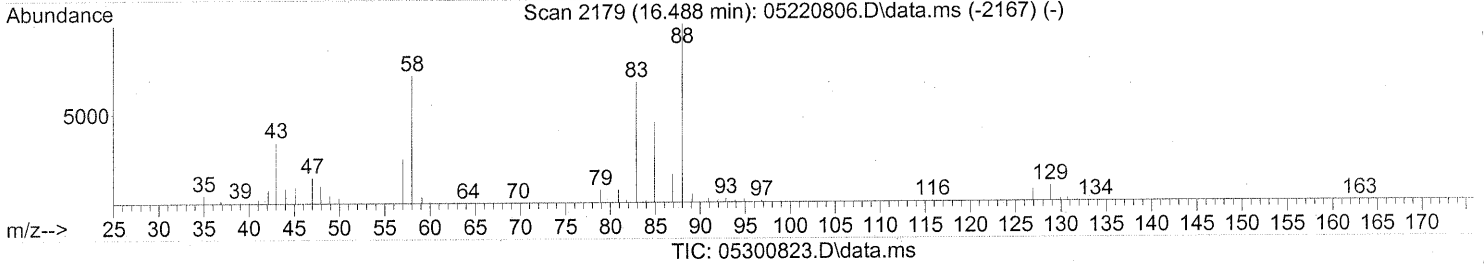
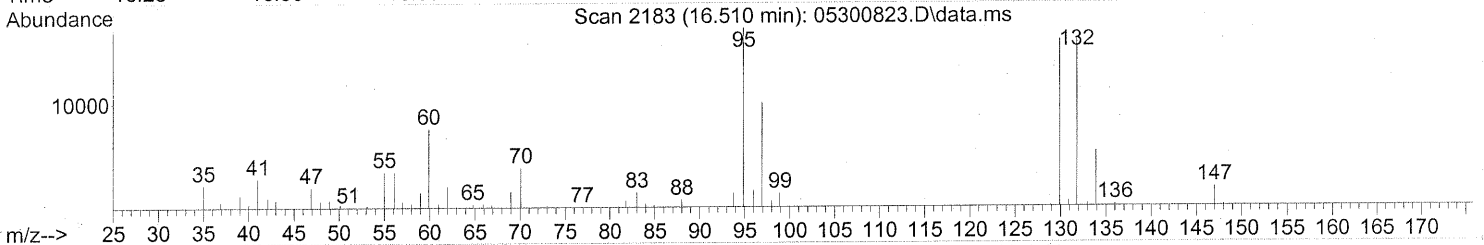
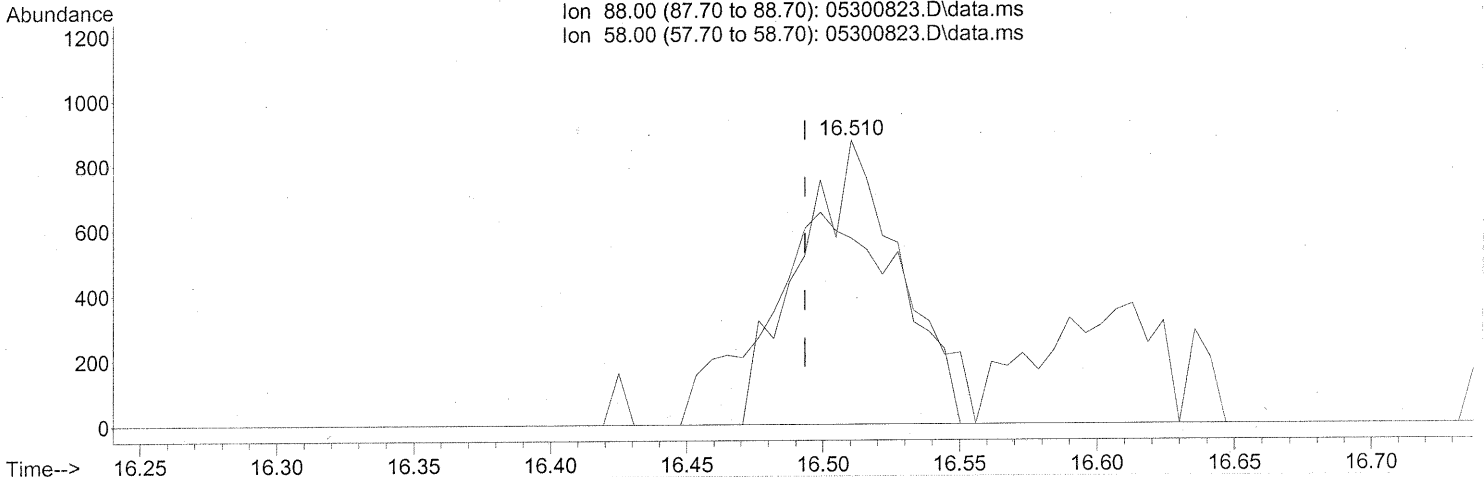
response 127337

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	99.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.510min (+0.017) 0.15ng  
 response 2200

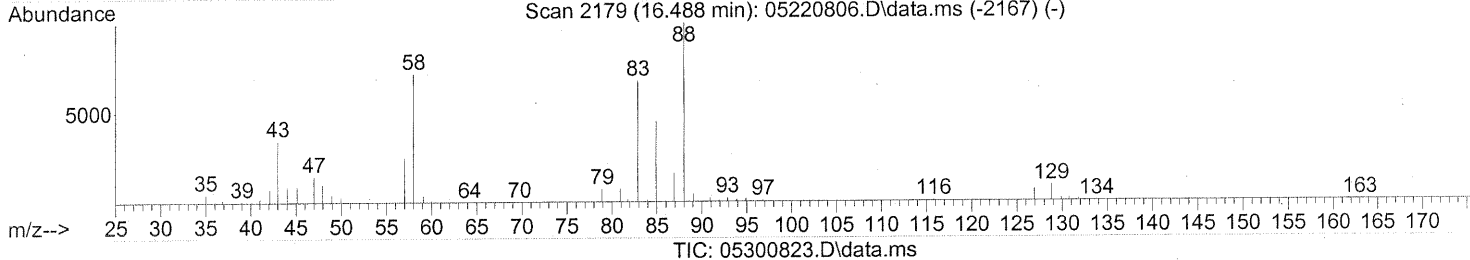
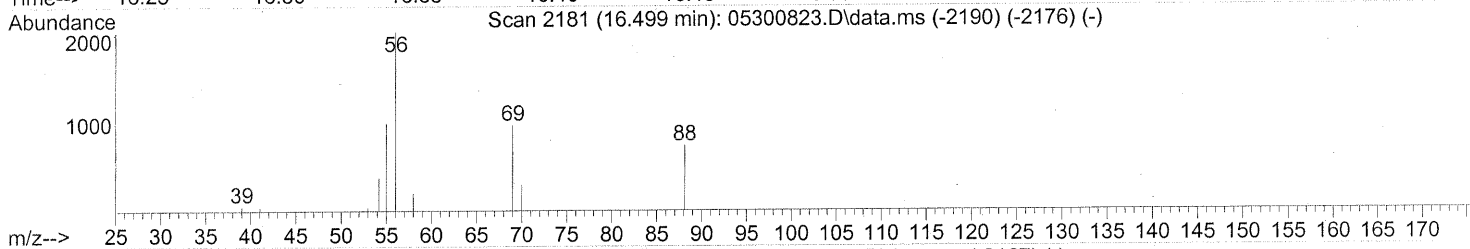
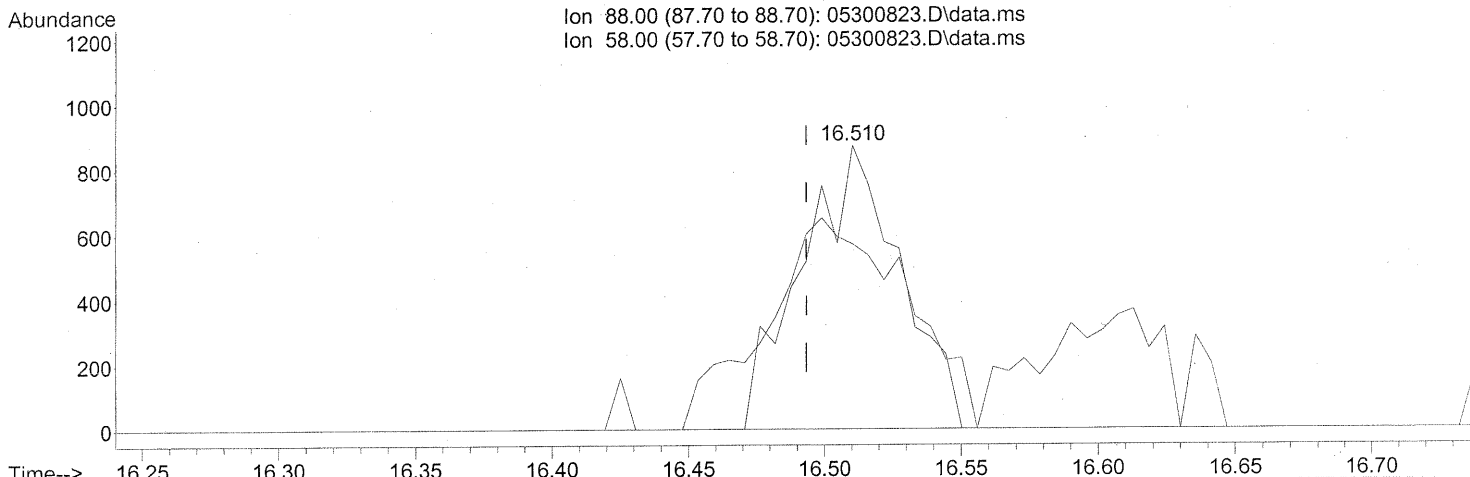
BEFORE SUBTRACTION

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	106.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.510min (+0.017) 0.15ng  
 response 2200

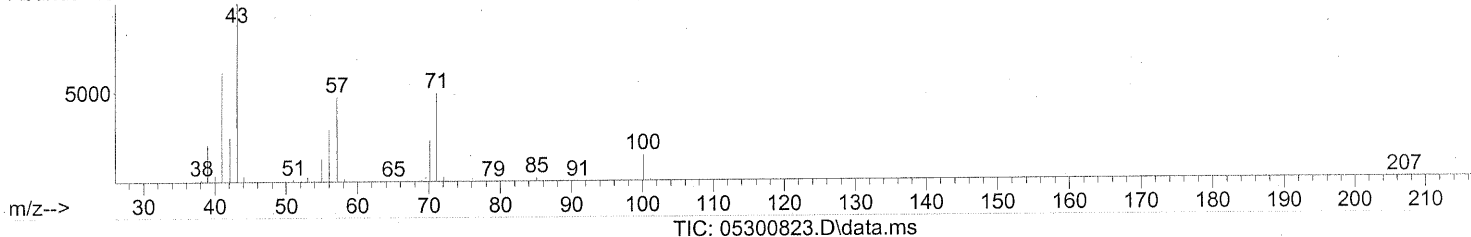
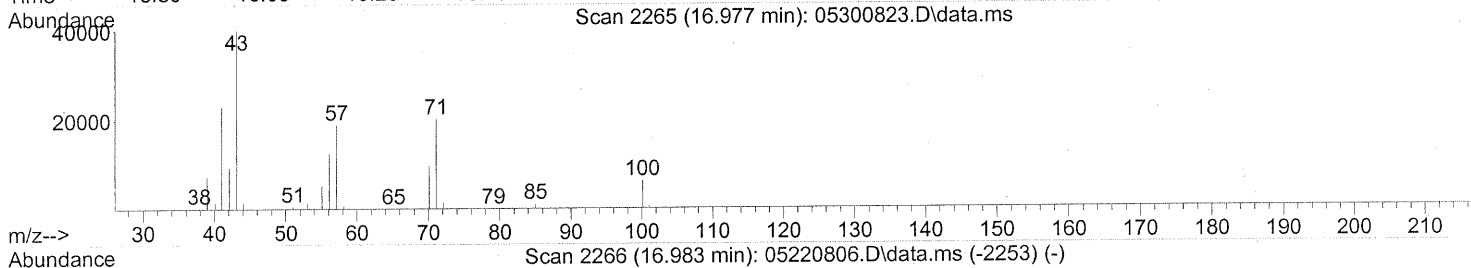
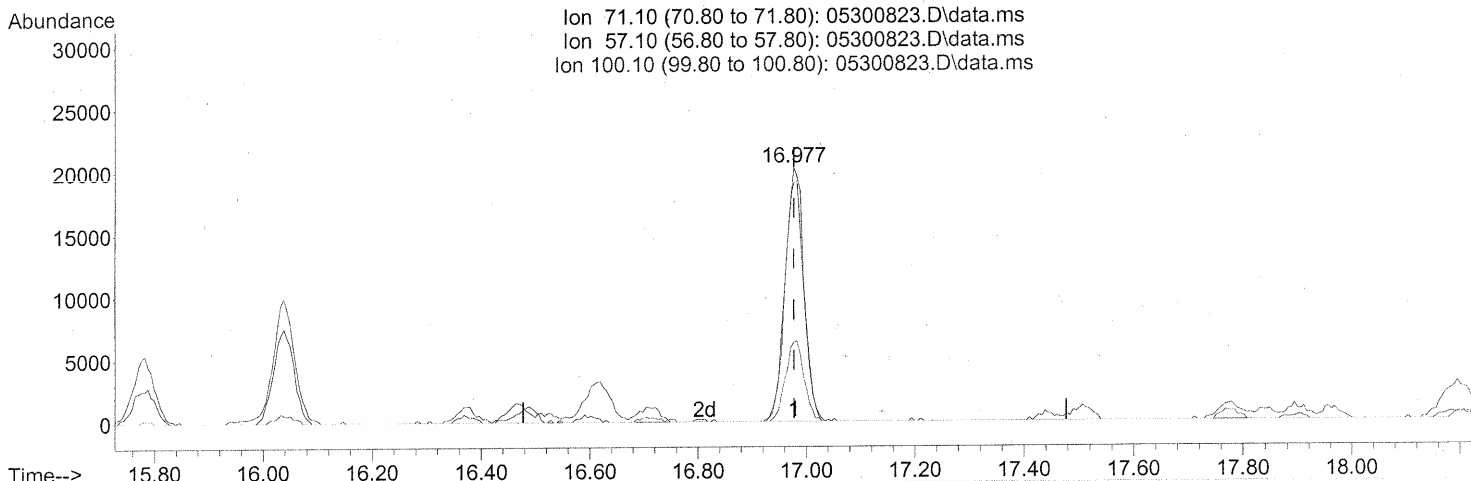
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	106.55
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 6/6/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.977min (-0.000) 2.36ng

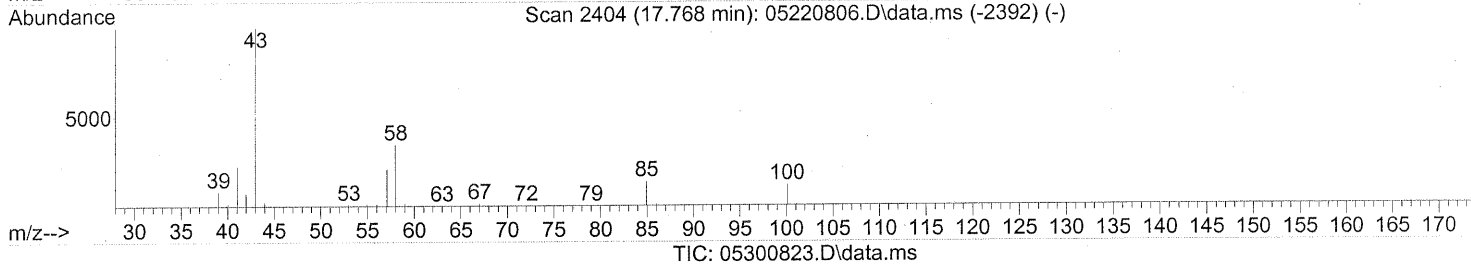
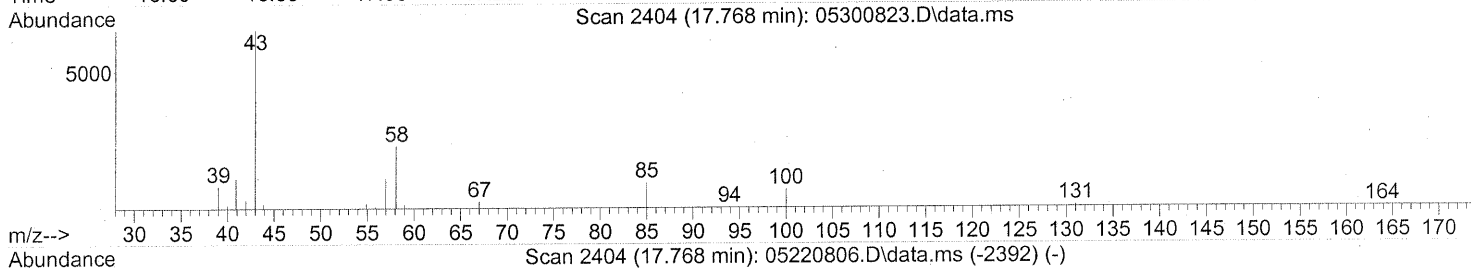
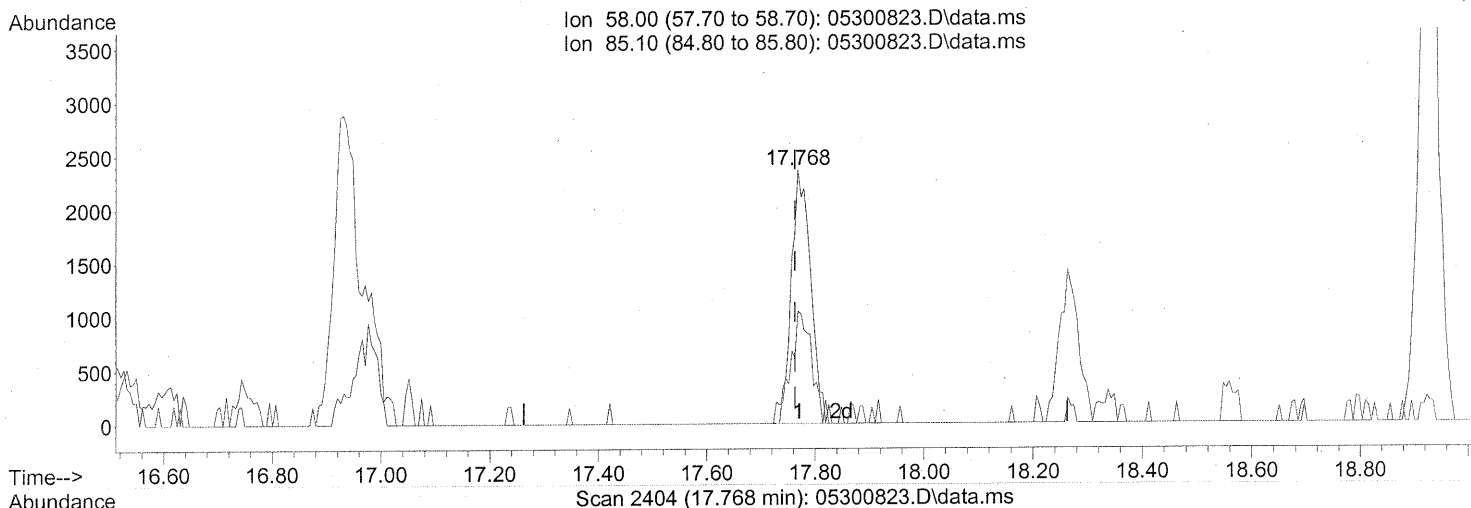
response 48992

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	93.93#
100.10	30.10	30.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.768min (+0.006) 0.28ng

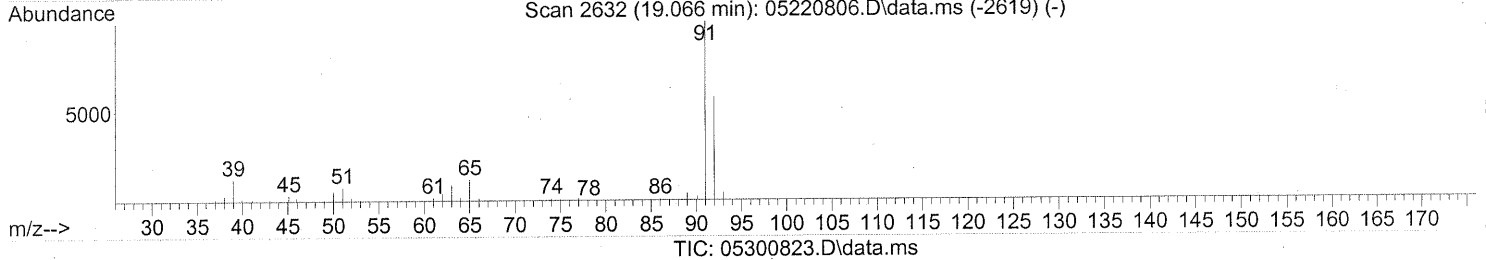
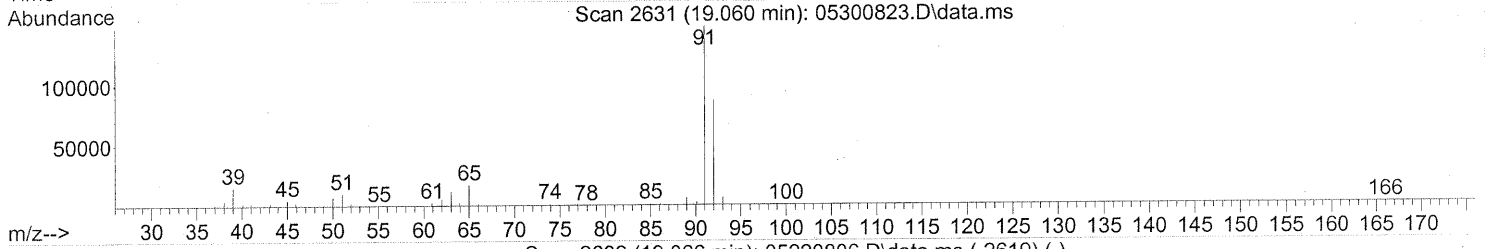
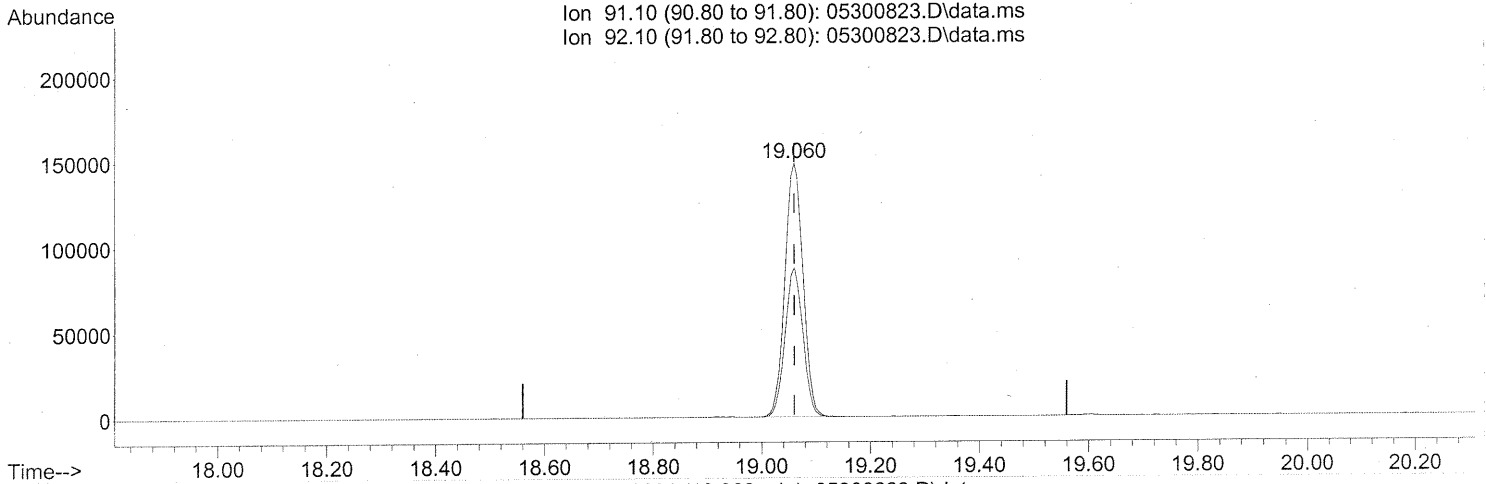
response 5873

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	48.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(58) Toluene (T)  
19.060min (0.000) 4.20ng  
response 343541

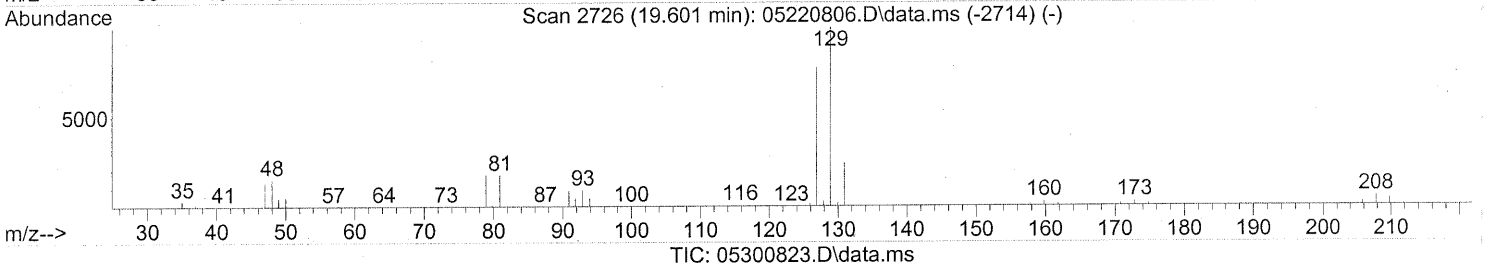
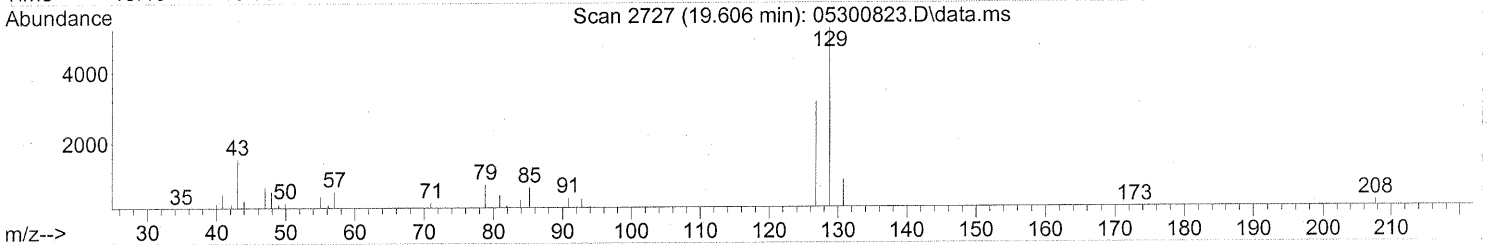
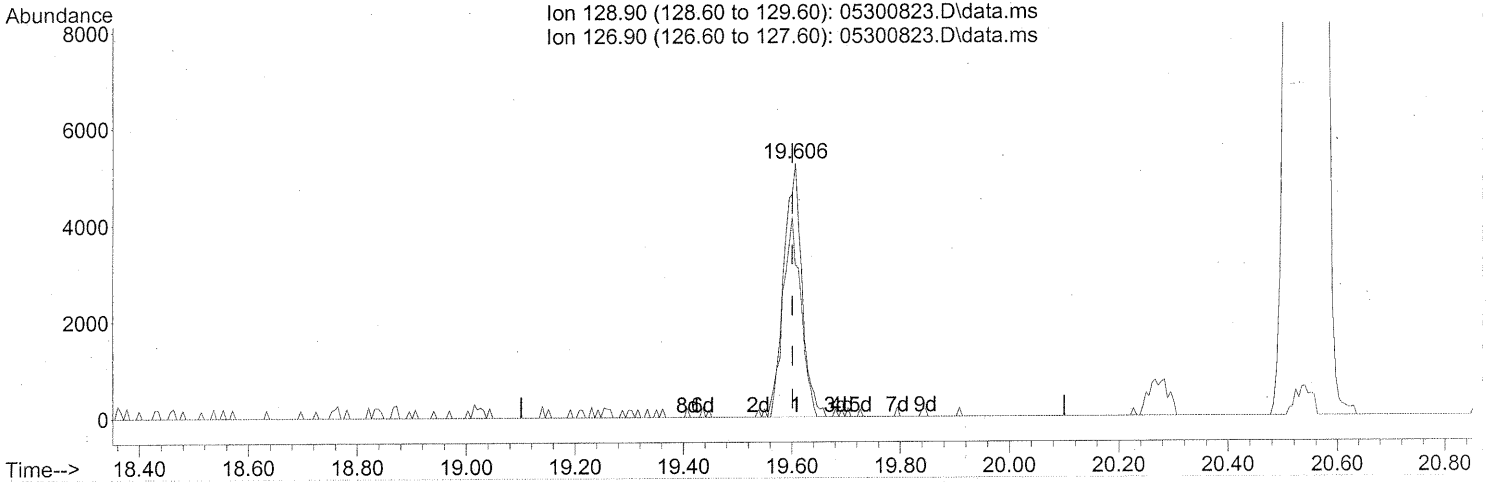
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.86
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.606min (+0.006) 0.56ng

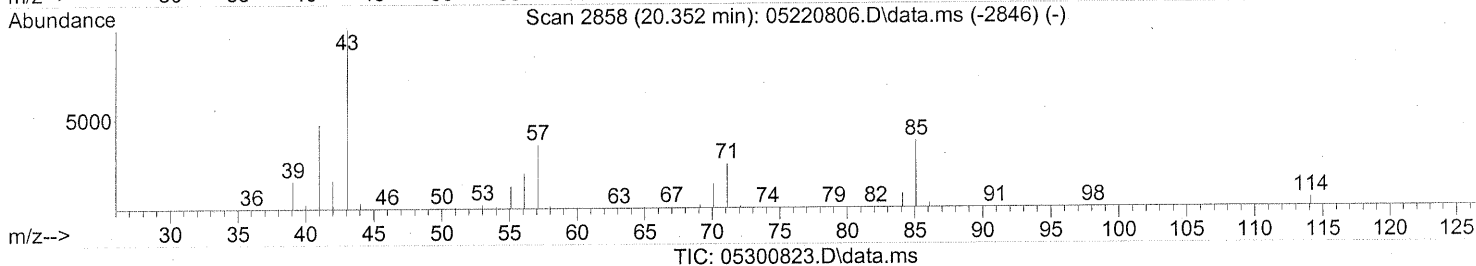
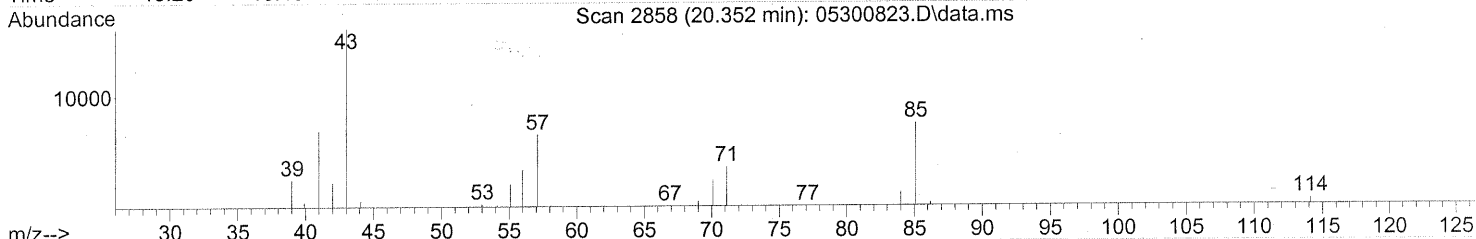
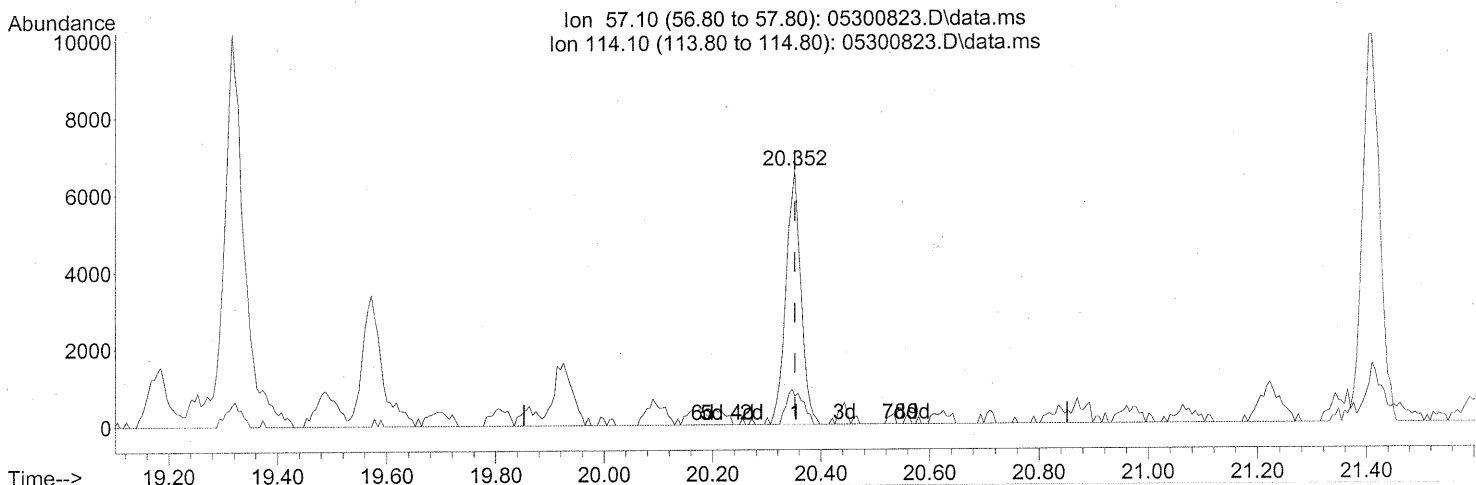
response 12298

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	75.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 0.70ng

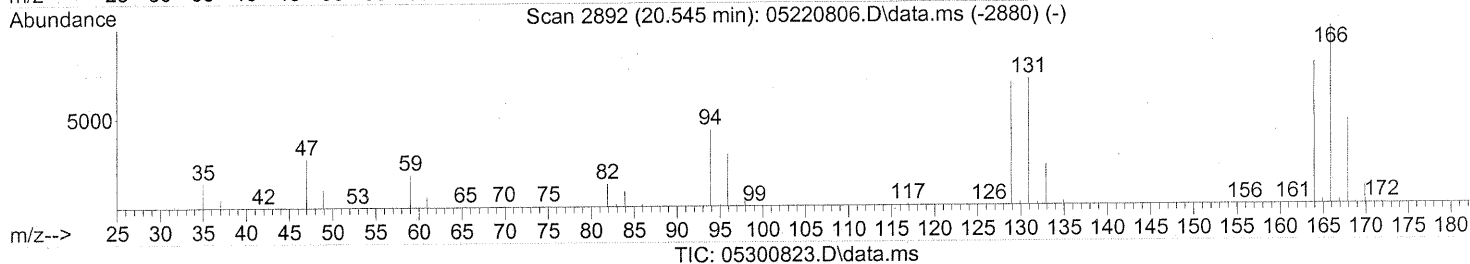
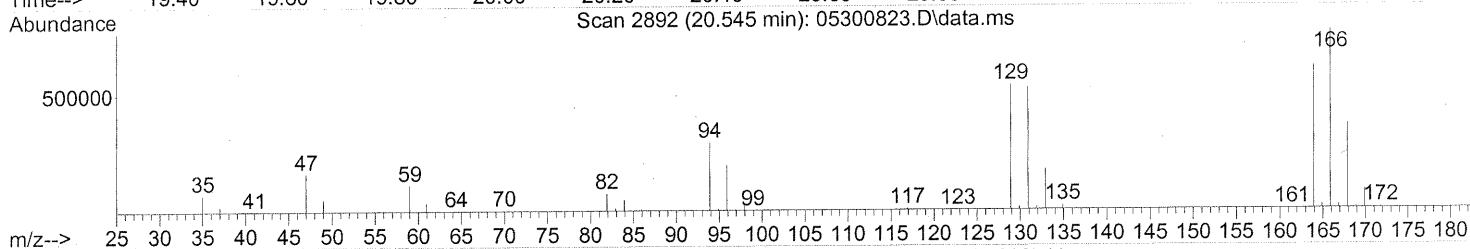
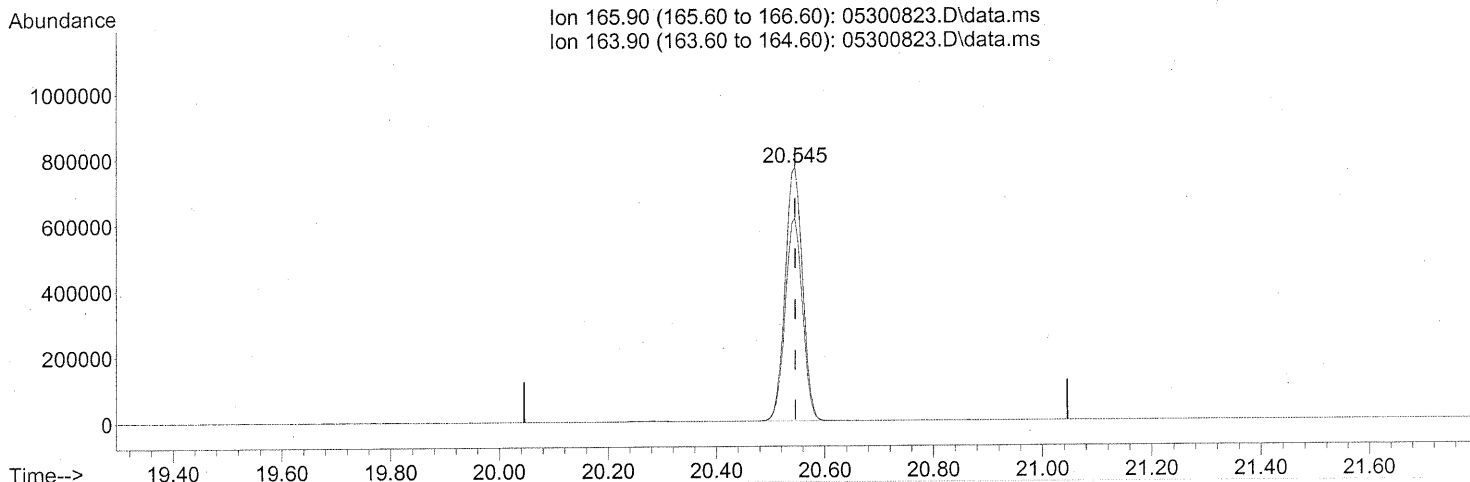
response 12729

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	15.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.545min (-0.000) 70.51ng

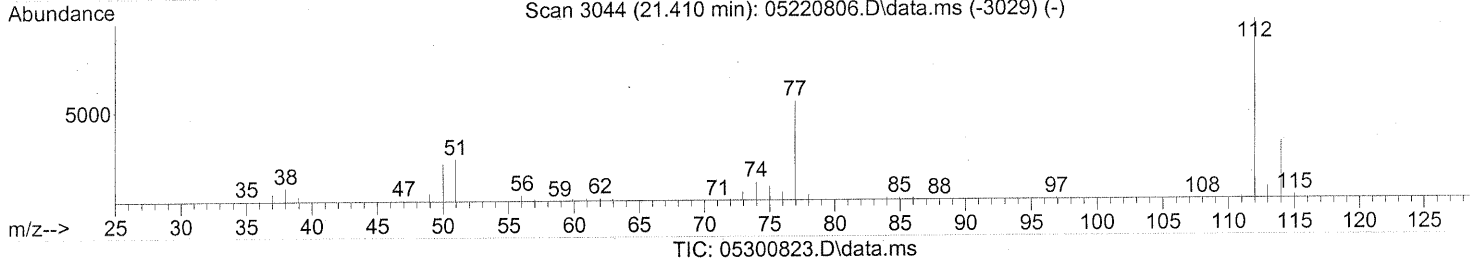
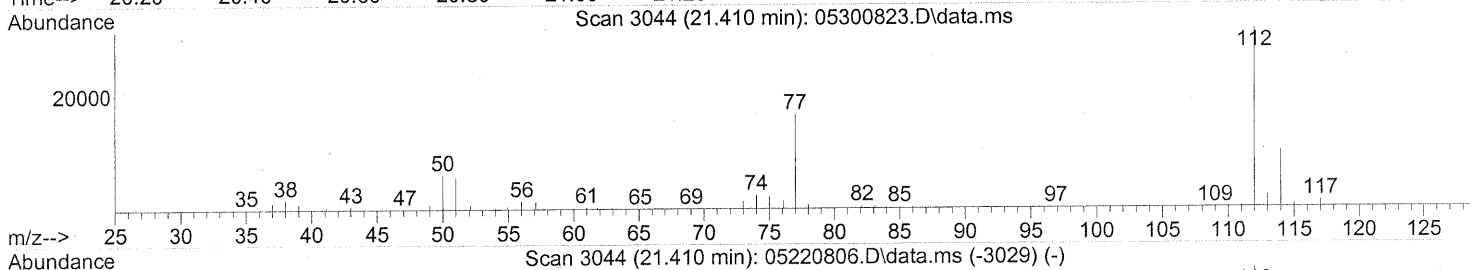
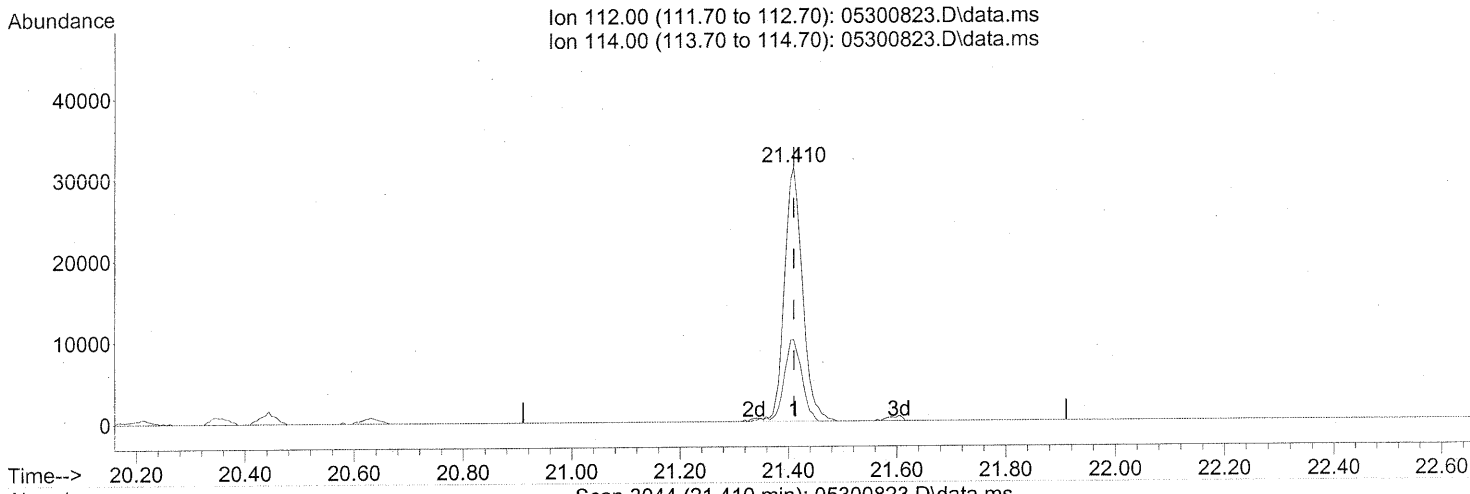
response 1708360

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



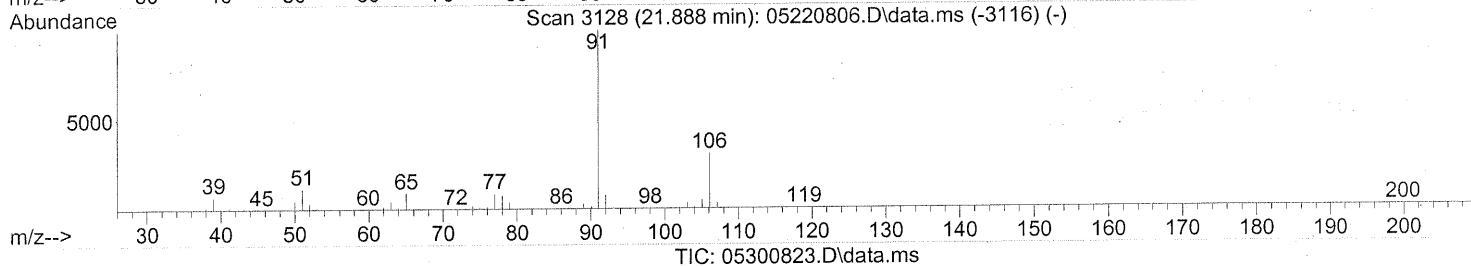
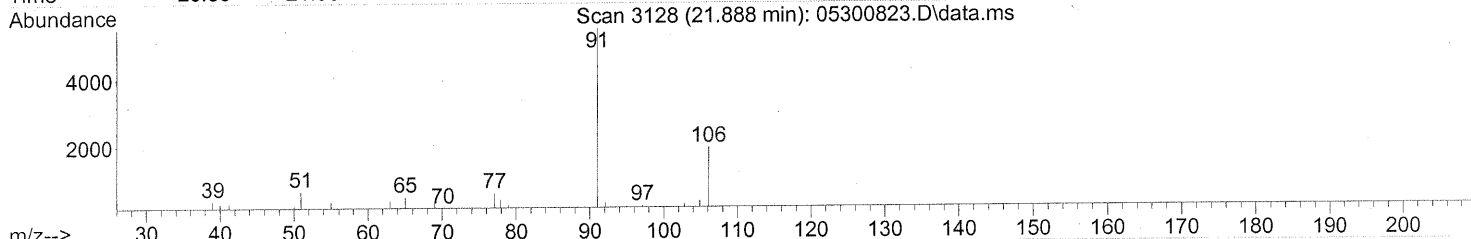
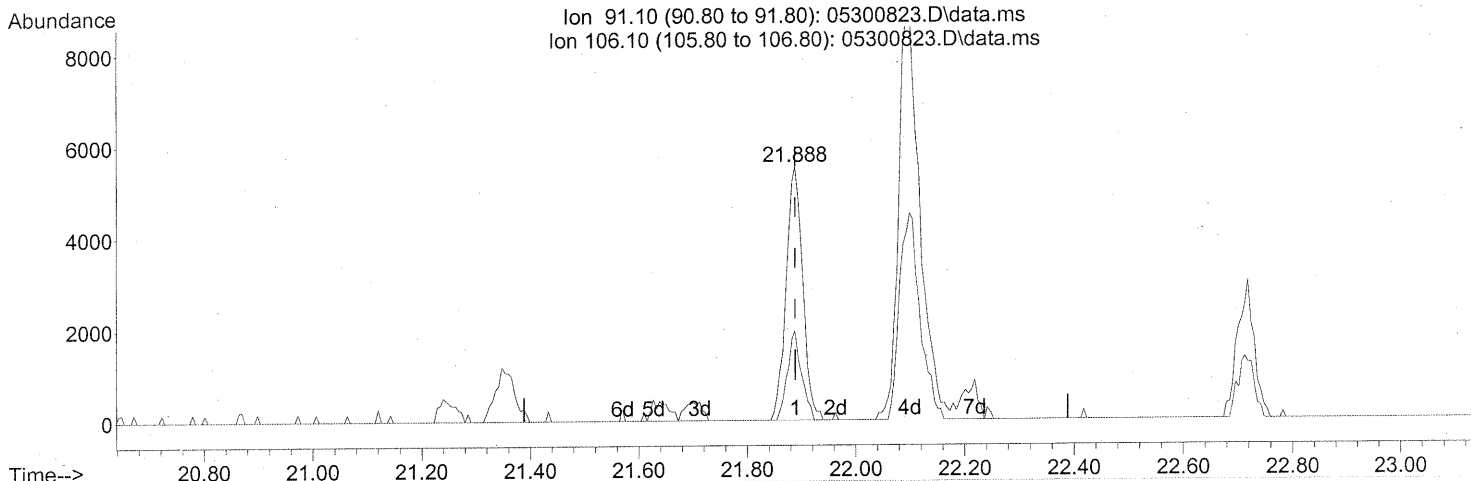
(65) Chlorobenzene (T)  
 21.410min (-0.000) 1.30ng  
 response 71599

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 0.12ng

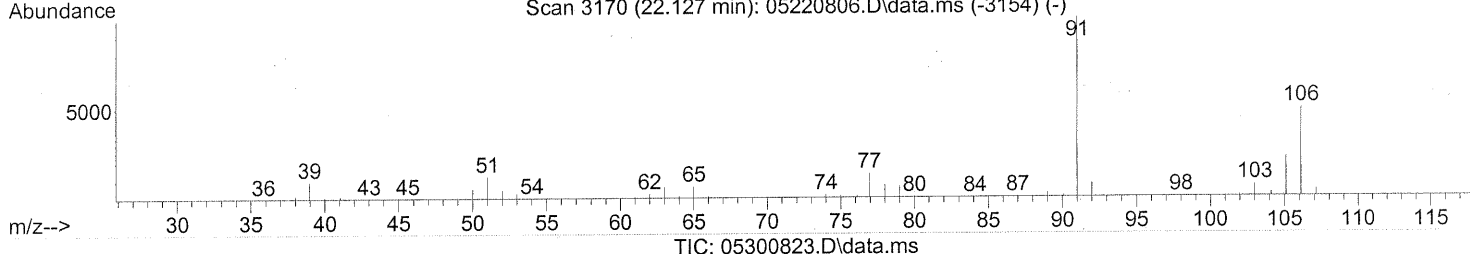
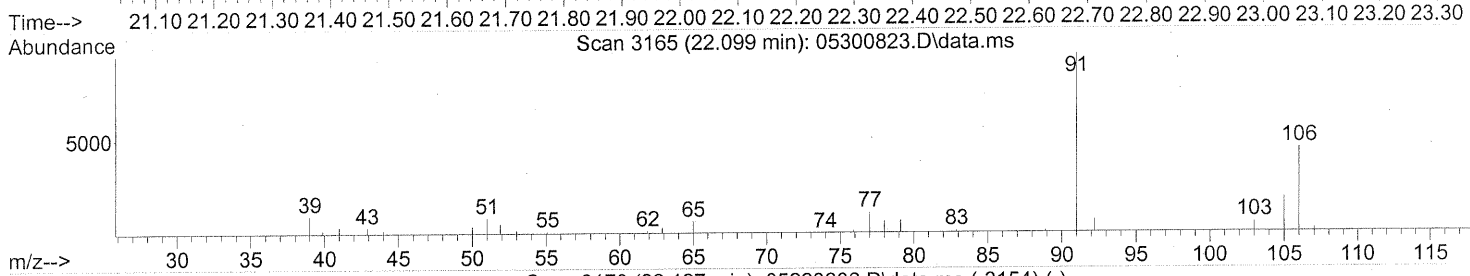
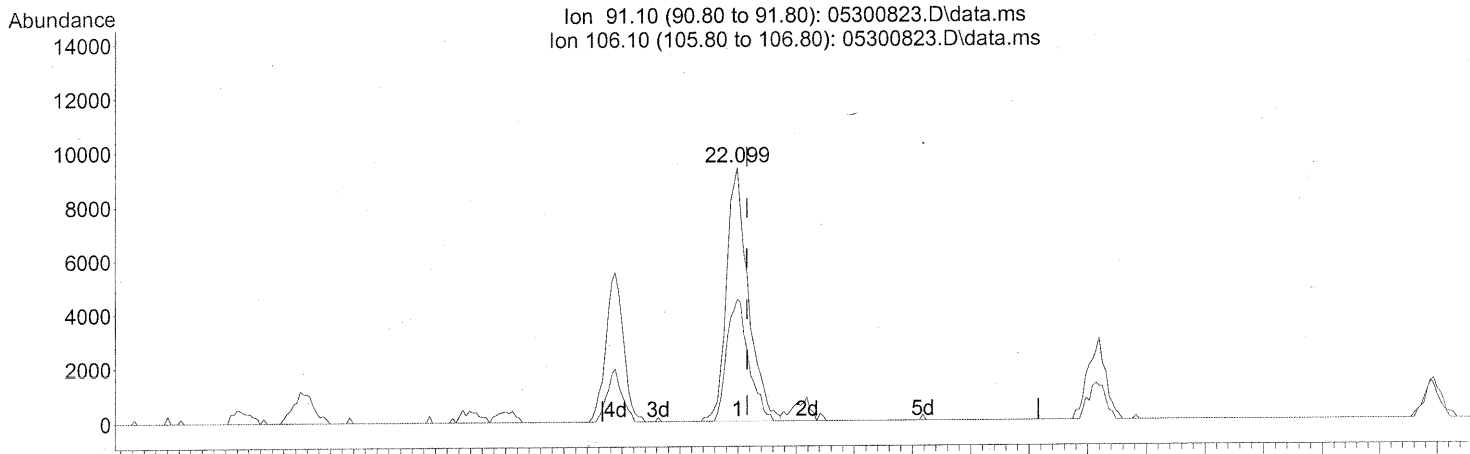
response 11673

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	29.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 0.39ng

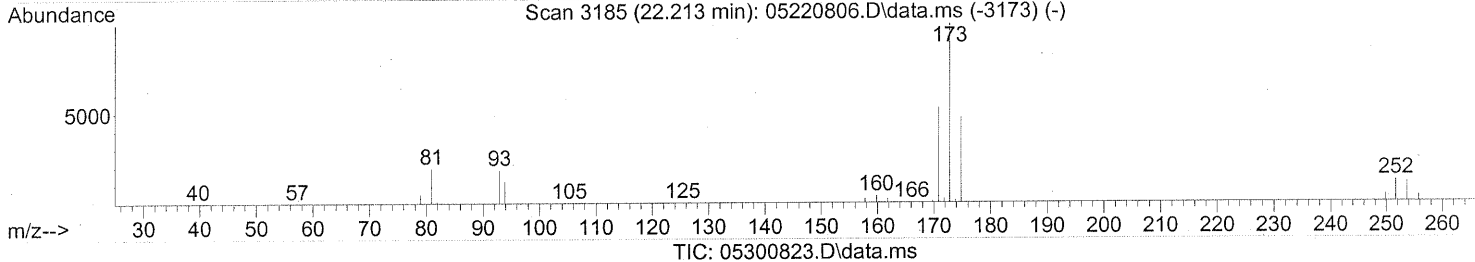
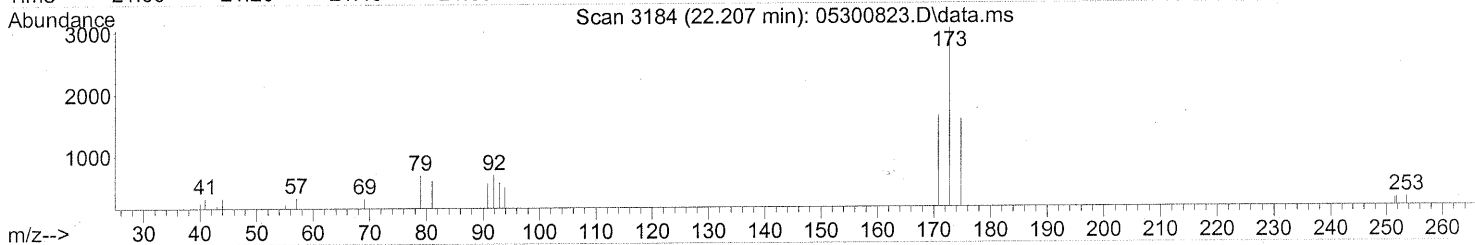
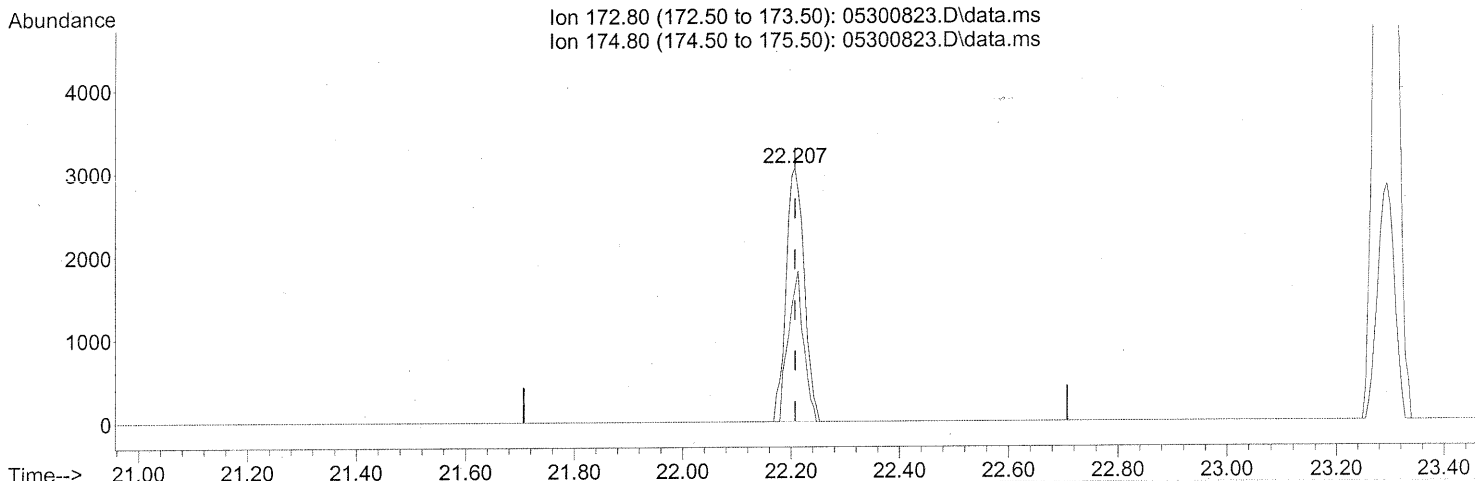
response 24422

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(68) Bromoform (T)

22.207min (-0.000) 0.43ng

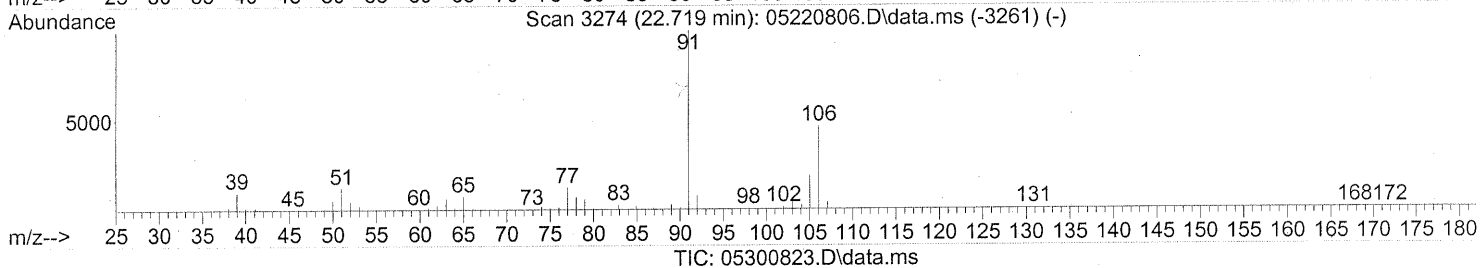
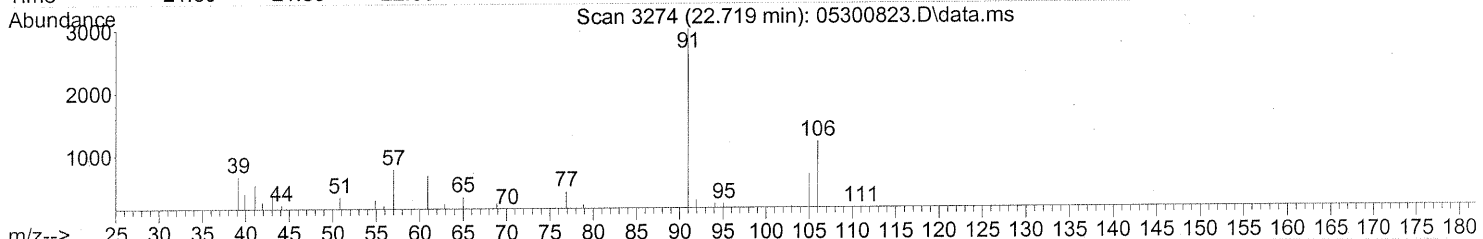
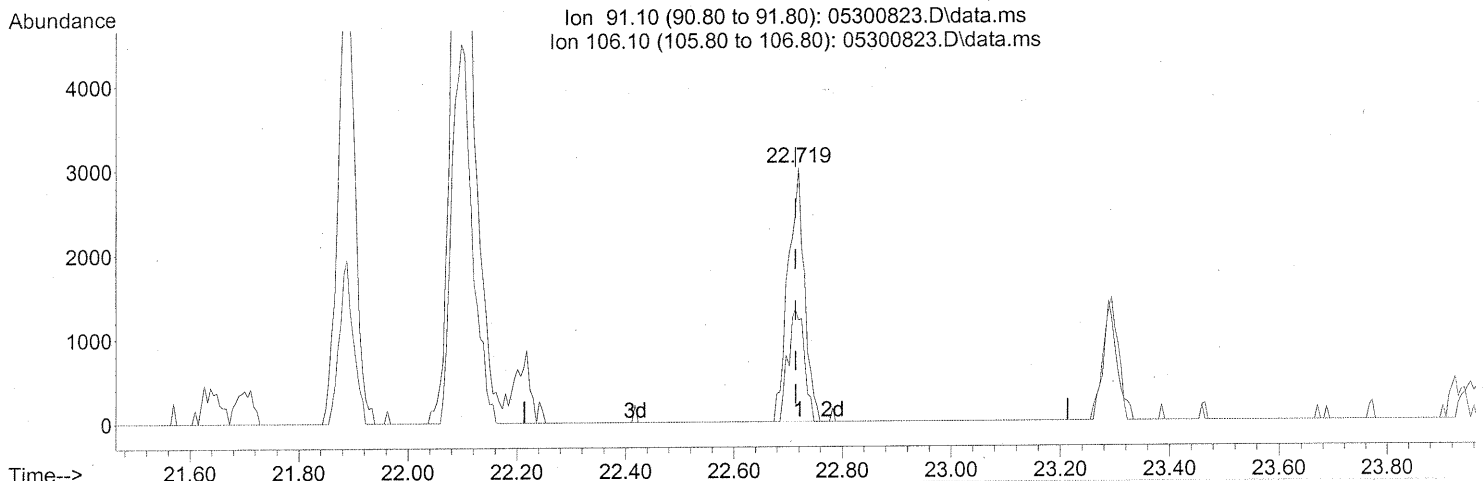
response 7022

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	49.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 05 15:53:21 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(70) o-Xylene (T)

22.719min (+0.006) 0.09ng

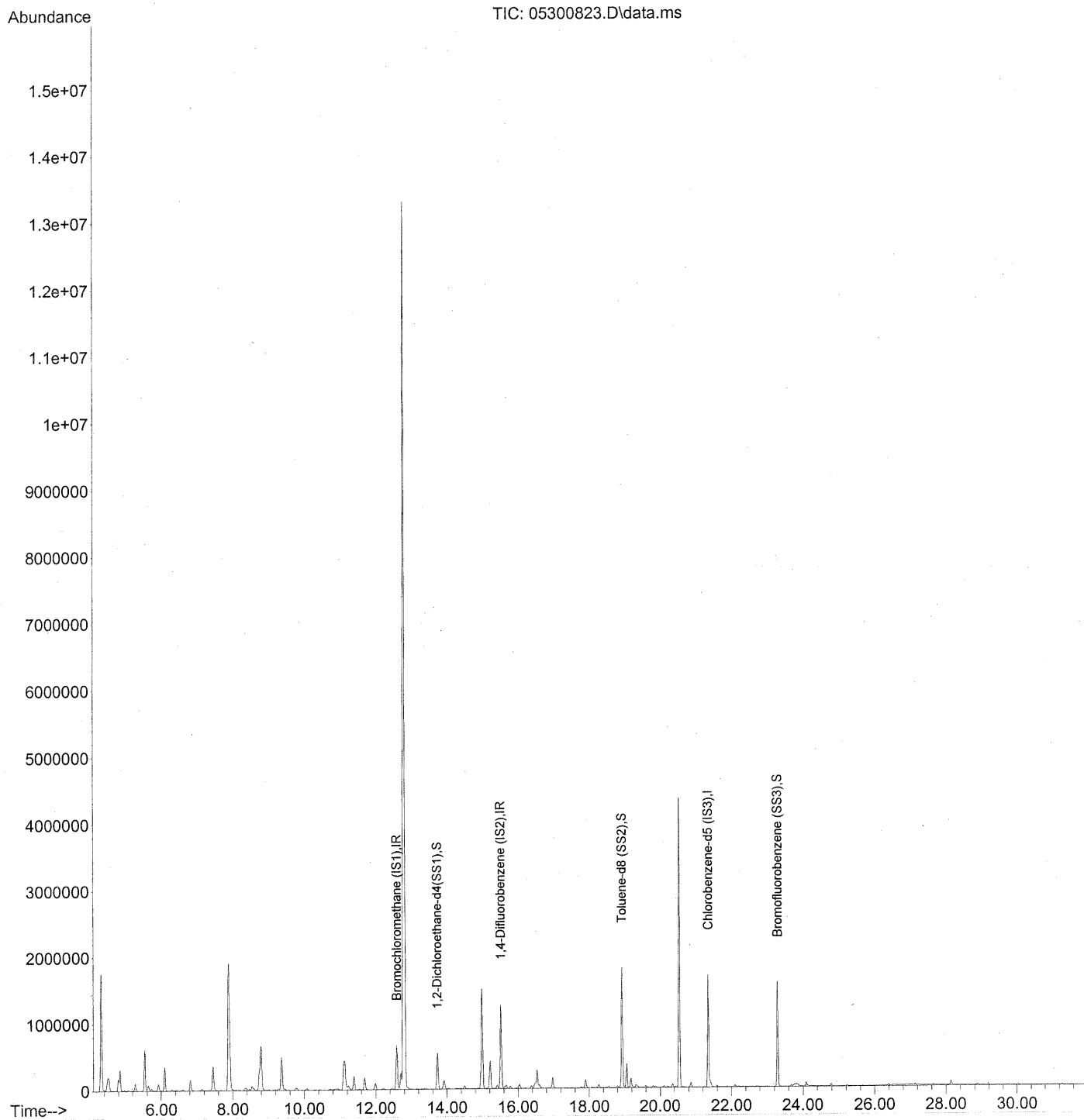
response 6309

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	43.91
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300823.D  
Acq On : 31 May 2008 2:41 am  
Operator : WA  
Sample : P0801548-007 (250ml)  
Misc : ENSR SG51B-05D (-2.9,3.6)  
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 08 17:22:48 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300823.D  
 Acq On : 31 May 2008 2:41 am  
 Operator : WA  
 Sample : P0801548-007 (250ml)  
 Misc : ENSR SG51B-05D (-2.9,3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 08 17:22:48 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

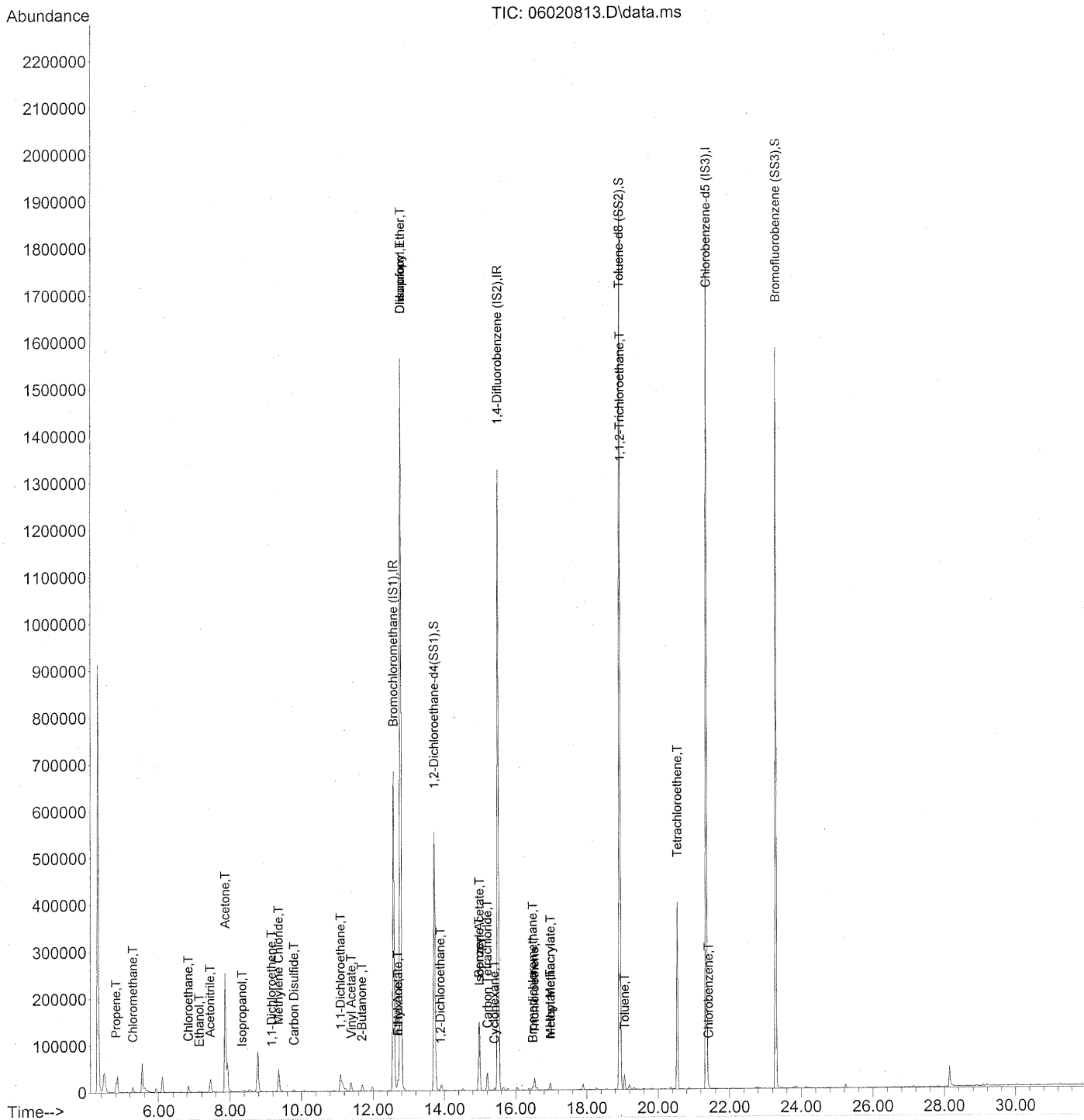
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	364581	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.51	114	1495095	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	670683	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	548566	21.715	ng	-0.02
Spiked Amount	25.000		Recovery	=	86.88%	✓
5) Toluene-d8 (SS2)	18.93	98	1537117	25.519	ng	-0.01
Spiked Amount	25.000		Recovery	=	102.08%	✓
6) Bromofluorobenzene (SS3)	23.29	174	630848	25.755	ng	0.00
Spiked Amount	25.000		Recovery	=	103.04%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	129		N.D.	✓
8) n-Butylbenzene	25.91	91	198		N.D.	✓

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

*Fac/08/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020813.D  
 Acq On : 2 Jun 2008 5:56 pm  
 Operator : RTB  
 Sample : P0801548-007 DIL (25mL)  
 Misc : ENSR SG51B-05D (-2.9, 3.6) ✓  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:23:09 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020813.D  
 Acq On : 2 Jun 2008 5:56 pm  
 Operator : RTB  
 Sample : P0801548-007 DIL (25mL)  
 Misc : ENSR SG51B-05D (-2.9, 3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:23:09 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	364982	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1569312	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	722078	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	574913	22.733	ng	-0.01
Spiked Amount				25.000		
				Recovery =		90.92% ✓
57) Toluene-d8 (SS2)	18.92	98	1619123	24.967	ng	0.00
Spiked Amount				25.000		
				Recovery =		99.88% ✓
73) Bromofluorobenzene (SS3)	23.29	174	625280	23.711	ng	0.00
Spiked Amount				25.000		
				Recovery =		94.84% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	12615	0.438	ng	# 83
3) Dichlorodifluoromethane	4.97	85	1787	N.D.		
4) Chloromethane	5.29	50	18589	0.540	ng	96
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.75	62	1109	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	51	N.D.		
9) Chloroethane	6.84	64	17788	1.088	ng	94
10) Ethanol	7.14	45	4429	0.231	ng	96
11) Acetonitrile	7.44	41	24617	0.444	ng	89
12) Acrolein	7.67	56	52	N.D.		
13) Acetone	7.86	58	130673	6.651	ng	# 53
14) Trichlorofluoromethane	8.17	101	1496	N.D.		
15) Isopropanol	8.34	45	6309	0.101	ng	81
16) Acrylonitrile	8.74	53	130	N.D.		
17) 1,1-Dichloroethene	9.16	96	1010	0.050	ng	# 54
18) tert-Butanol	9.31	59	1400	N.D.		
19) Methylene Chloride	9.36	84	30157	1.373	ng	# 77
20) Allyl Chloride	9.45	41	490	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	8578	0.103	ng	94
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	46993	1.233	ng	94
25) Methyl tert-Butyl Ether	11.13	73	119	N.D.		
26) Vinyl Acetate	11.39	86	341	0.094	ng	# 1
27) 2-Butanone	11.68	72	6559	0.457	ng	# 89
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	177604	10.107	ng	# 1
30) Ethyl Acetate	12.70	61	622	0.080	ng	# 66
31) n-Hexane	12.70	57	12223	0.313	ng	# 85

*7/06/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020813.D  
 Acq On : 2 Jun 2008 5:56 pm  
 Operator : RTB  
 Sample : P0801548-007 DIL (25mL)  
 Misc : ENSR SG51B-05D (-2.9, 3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:23:09 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	1682571	50.555	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.89	62	3884	0.121	ng	96
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	14.99	61	1304	0.097	ng	# 1
40) 1-Butanol	14.91	56	818	N.D.		
41) Benzene	14.98	78	181752	2.212	ng	100
42) Carbon Tetrachloride	15.21	117	33415	1.056	ng	99
43) Cyclohexane	15.40	84	2853	0.089	ng	# 63
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	16.20	63	705	N.D.		
46) Bromodichloromethane	16.48	83	2654	0.096	ng	82
47) Trichloroethene	16.53	130	12425	0.493	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.60	57	281	N.D.		
50) Methyl Methacrylate	16.98	100	1640	0.200	ng	# 1
51) n-Heptane	16.97	71	4659	0.213	ng	# 75
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.79	58	150	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	140648	6.927	ng	# 8
58) Toluene	19.06	91	31203	0.354	ng	97
59) 2-Hexanone	19.37	43	599	N.D.		
60) Dibromochloromethane	19.60	129	972	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.34	43	2605	N.D.		
63) n-Octane	20.34	57	669	N.D.		
64) Tetrachloroethene	20.54	166	152953	5.864	ng	99
65) Chlorobenzene	21.41	112	6356	0.108	ng	100
66) Ethylbenzene	21.89	91	1112	N.D.		
67) m- & p-Xylene	22.10	91	2029	N.D.		
68) Bromoform	22.21	173	152	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	440	N.D.		
71) n-Nonane	22.98	43	224	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.29	105	735	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D.		
77) 3-Ethyltoluene	24.22	105	54	N.D.		
78) 4-Ethyltoluene	24.24	105	54	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	53	N.D.		

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020813.D  
 Acq On : 2 Jun 2008 5:56 pm  
 Operator : RTB  
 Sample : P0801548-007 DIL (25mL)  
 Misc : ENSR SG51B-05D (-2.9, 3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:23:09 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

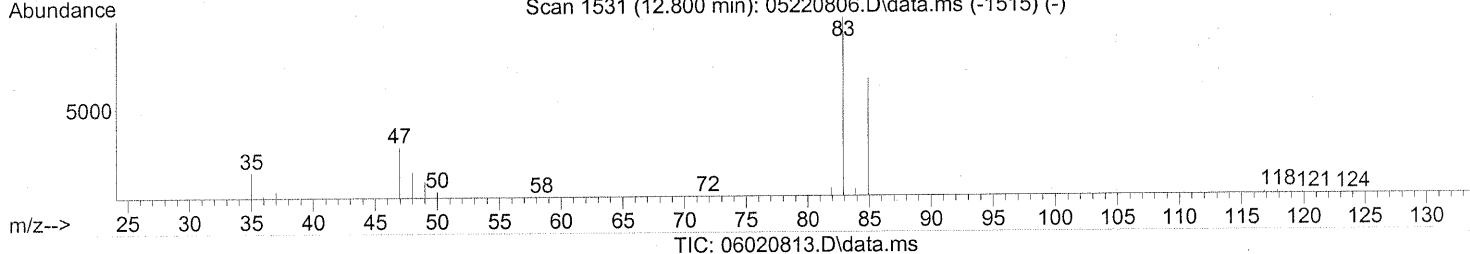
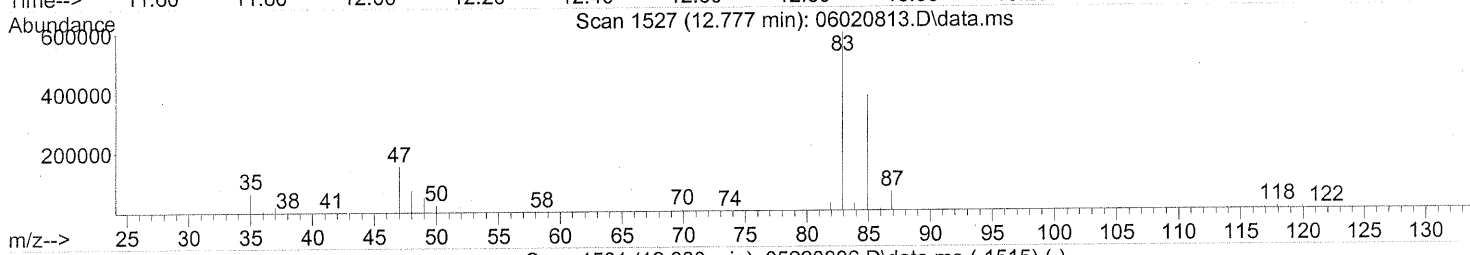
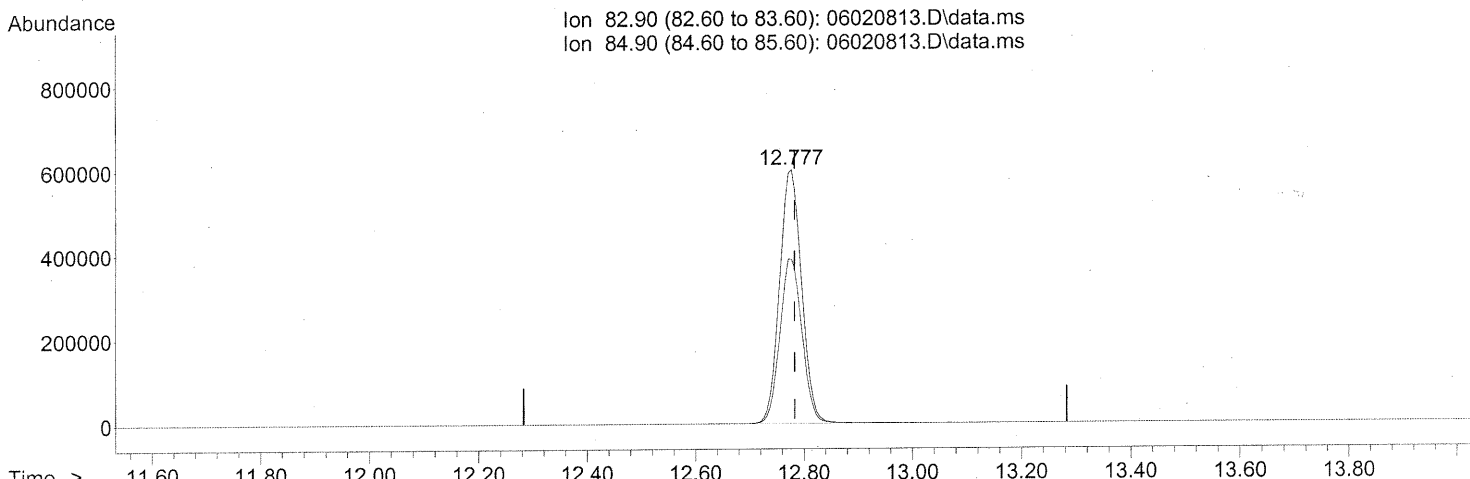
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0			N.D.
81) 2-Ethyltoluene	24.37	105	53			N.D.
82) 1,2,4-Trimethylbenzene	0.00	105	0			N.D.
83) n-Decane	24.98	57	56			N.D.
84) Benzyl Chloride	0.00	91	0			N.D.
85) 1,3-Dichlorobenzene	0.00	146	0			N.D.
86) 1,4-Dichlorobenzene	0.00	146	0			N.D.
87) sec-Butylbenzene	0.00	105	0			N.D.
88) p-Isopropyltoluene	0.00	119	0			N.D.
89) 1,2,3-Trimethylbenzene	0.00	105	0			N.D.
90) 1,2-Dichlorobenzene	0.00	146	0			N.D.
91) d-Limonene	0.00	68	0			N.D.
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0			N.D.
93) n-Undecane	26.52	57	68			N.D.
94) 1,2,4-Trichlorobenzene	0.00	180	0			N.D.
95) Naphthalene	27.78	128	1548			N.D.
96) n-Dodecane	27.65	57	66			N.D.
97) Hexachloro-1,3-butadiene	0.00	225	0			N.D.

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020813.D  
 Acq On : 2 Jun 2008 5:56 pm  
 Operator : RTB  
 Sample : P0801548-007 DIL (25mL)  
 Misc : ENSR SG51B-05D (-2.9, 3.6)  
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 03 10:23:09 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 50.56ng

response 1682571

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.86
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG42B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-008

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00510

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -5.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.9	0.19	0.39	0.39	0.039	J
74-87-3	Chloromethane	ND	0.39	0.19	ND	0.19	0.094	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.9	0.19	ND	0.28	0.028	
75-01-4	Vinyl Chloride	ND	0.39	0.19	ND	0.15	0.076	
74-83-9	Bromomethane	ND	0.39	0.19	ND	0.10	0.050	
75-00-3	Chloroethane	ND	0.39	0.19	ND	0.15	0.074	
64-17-5	Ethanol	6.1	19	0.19	3.2	10	0.10	J
67-64-1	Acetone	38	19	0.28	16	8.2	0.12	B, M
75-69-4	Trichlorofluoromethane	1.3	0.39	0.19	0.23	0.069	0.035	
107-13-1	Acrylonitrile	ND	1.9	0.27	ND	0.89	0.13	
75-35-4	1,1-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	1.2	1.9	0.29	0.38	0.64	0.095	J
75-09-2	Methylene Chloride	0.26	1.9	0.19	0.075	0.56	0.056	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.39	0.19	ND	0.12	0.062	
76-13-1	Trichlorotrifluoroethane	0.50	0.39	0.22	0.065	0.051	0.028	
75-15-0	Carbon Disulfide	1.2	1.9	0.47	0.40	0.62	0.15	J
156-60-5	trans-1,2-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
75-34-3	1,1-Dichloroethane	ND	0.39	0.19	ND	0.096	0.048	
1634-04-4	Methyl tert-Butyl Ether	ND	0.39	0.19	ND	0.11	0.054	
108-05-4	Vinyl Acetate	2.9	19	0.62	0.84	5.5	0.18	J
78-93-3	2-Butanone (MEK)	14	1.9	0.19	4.6	0.66	0.066	
156-59-2	cis-1,2-Dichloroethene	ND	0.39	0.19	ND	0.098	0.049	
108-20-3	Diisopropyl Ether	ND	1.9	0.23	ND	0.46	0.055	
67-66-3	Chloroform	83	0.39	0.23	17	0.079	0.047	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:                      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG42B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
CAS Sample ID: P0801548-008

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
Analyst: Wida Ang  
Sampling Media: 6.0 L Summa Canister  
Test Notes:  
Container ID: SC00510

Date Collected: 5/21/08  
Date Received: 5/23/08  
Date Analyzed: 5/31/08  
Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -5.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.9	0.20	ND	0.46	0.047	
107-06-2	1,2-Dichloroethane	ND	0.39	0.19	ND	0.096	0.048	
71-55-6	1,1,1-Trichloroethane	ND	0.39	0.19	ND	0.071	0.036	
71-43-2	<b>Benzene</b>	<b>2.6</b>	0.39	0.19	<b>0.82</b>	0.12	0.061	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.47</b>	0.39	0.19	<b>0.075</b>	0.062	0.031	
994-05-8	tert-Amyl Methyl Ether	ND	1.9	0.19	ND	0.46	0.046	
78-87-5	1,2-Dichloropropane	ND	0.39	0.19	ND	0.084	0.042	
75-27-4	<b>Bromodichloromethane</b>	<b>20</b>	0.39	0.19	<b>3.0</b>	0.058	0.029	
79-01-6	Trichloroethene	ND	0.39	0.19	ND	0.072	0.036	
123-91-1	1,4-Dioxane	ND	1.9	0.24	ND	0.54	0.066	
80-62-6	Methyl Methacrylate	ND	1.9	0.29	ND	0.47	0.071	
142-82-5	<b>n-Heptane</b>	<b>0.71</b>	1.9	0.25	<b>0.17</b>	0.47	0.061	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.9	0.20	ND	0.43	0.044	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.2</b>	1.9	0.22	<b>0.53</b>	0.47	0.053	
10061-02-6	trans-1,3-Dichloropropene	ND	1.9	0.24	ND	0.43	0.054	
79-00-5	1,1,2-Trichloroethane	ND	0.39	0.19	ND	0.071	0.036	
108-88-3	<b>Toluene</b>	<b>160</b>	1.9	0.19	<b>42</b>	0.52	0.052	
591-78-6	<b>2-Hexanone</b>	<b>3.9</b>	1.9	0.29	<b>0.95</b>	0.47	0.072	
124-48-1	<b>Dibromochloromethane</b>	<b>1.2</b>	0.39	0.26	<b>0.14</b>	0.046	0.031	
106-93-4	1,2-Dibromoethane	ND	0.39	0.21	ND	0.051	0.027	
111-65-9	<b>n-Octane</b>	<b>2.0</b>	1.9	0.19	<b>0.42</b>	0.42	0.042	
127-18-4	<b>Tetrachloroethene</b>	<b>1.1</b>	0.39	0.19	<b>0.16</b>	0.057	0.029	
108-90-7	Chlorobenzene	ND	0.39	0.20	ND	0.084	0.043	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CAH      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG42B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-008

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00510

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 0.50 Liter(s)

Initial Pressure (psig): -5.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.94

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	5.5	1.9	0.24	1.3	0.45	0.055	
179601-23-1	m,p-Xylenes	36	1.9	0.50	8.2	0.45	0.12	
75-25-2	Bromoform	ND	1.9	0.29	ND	0.19	0.029	
100-42-5	Styrene	0.83	1.9	0.29	0.19	0.46	0.069	J
95-47-6	o-Xylene	12	1.9	0.24	2.7	0.45	0.056	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.39	0.25	ND	0.057	0.036	
98-82-8	Cumene	0.58	1.9	0.22	0.12	0.39	0.044	J
103-65-1	n-Propylbenzene	3.0	1.9	0.20	0.61	0.39	0.041	
622-96-8	4-Ethyltoluene	5.4	1.9	0.22	1.1	0.39	0.045	
108-67-8	1,3,5-Trimethylbenzene	4.5	1.9	0.23	0.91	0.39	0.047	
98-83-9	alpha-Methylstyrene	0.33	1.9	0.28	0.068	0.40	0.059	J
95-63-6	1,2,4-Trimethylbenzene	14	1.9	0.27	2.9	0.39	0.054	
100-44-7	Benzyl Chloride	ND	0.39	0.33	ND	0.075	0.064	
541-73-1	1,3-Dichlorobenzene	ND	0.39	0.24	ND	0.065	0.040	
106-46-7	1,4-Dichlorobenzene	3.4	0.39	0.22	0.56	0.065	0.036	
135-98-8	sec-Butylbenzene	0.45	1.9	0.23	0.082	0.35	0.041	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.7	1.9	0.25	0.31	0.35	0.046	J
95-50-1	1,2-Dichlorobenzene	ND	0.39	0.26	ND	0.065	0.043	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.9	0.29	ND	0.20	0.031	
120-82-1	1,2,4-Trichlorobenzene	ND	0.39	0.29	ND	0.052	0.040	
91-20-3	Naphthalene	1.5	0.78	0.29	0.29	0.15	0.055	
87-68-3	Hexachlorobutadiene	ND	0.39	0.35	ND	0.036	0.033	
98-06-6	tert-Butylbenzene	ND	0.78	0.19	ND	0.14	0.035	
104-51-8	n-Butylbenzene	2.4	0.78	0.19	0.44	0.14	0.035	

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

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

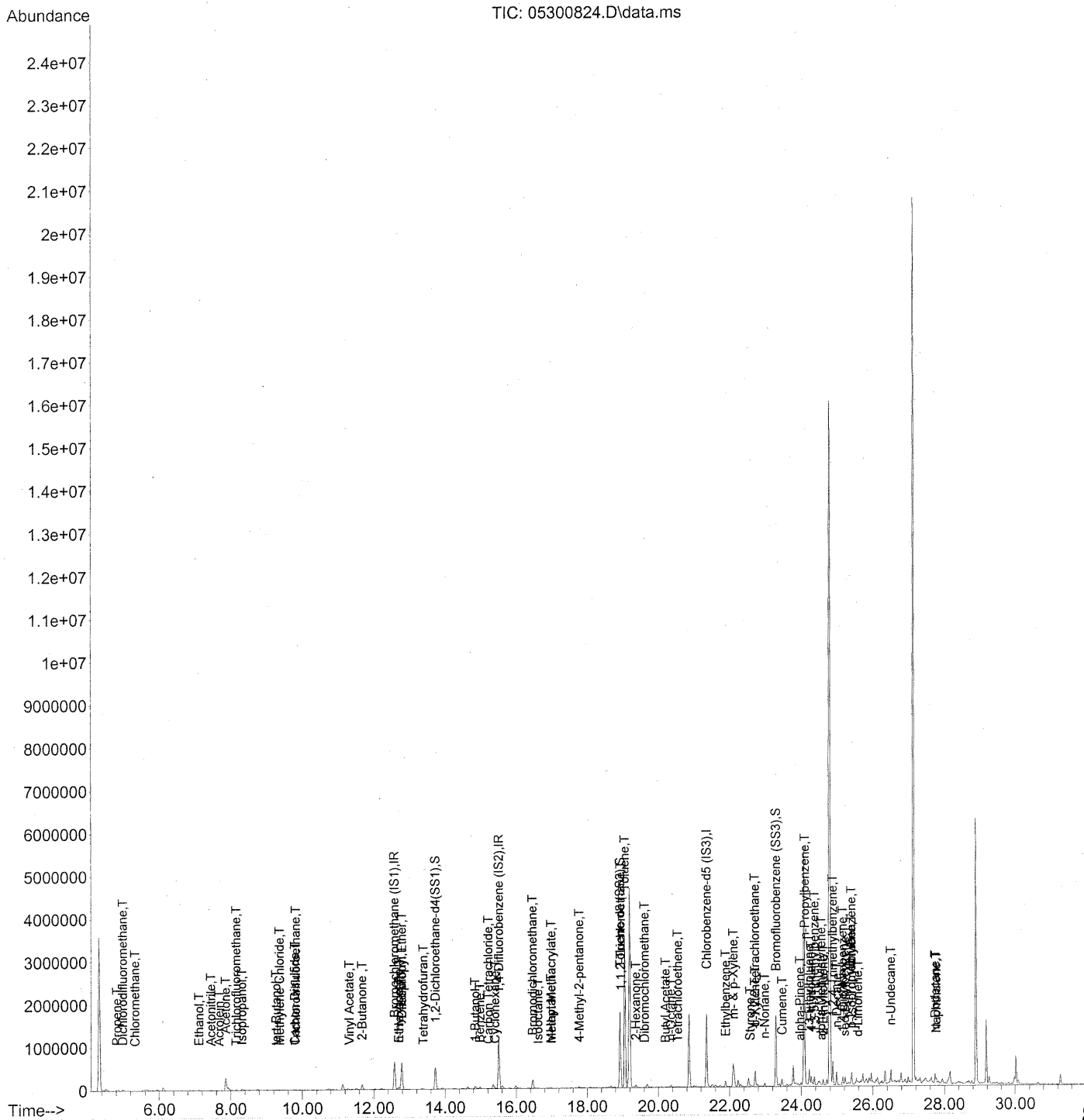
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**546**

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5) ✓  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
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Quant Time: Jun 05 16:33:37 2008  
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	347882	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1464807	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	674312	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	533126	22.117	ng	0.00
Spiked Amount				25.000		
				Recovery =	88.48%	✓
57) Toluene-d8 (SS2)	18.93	98	1515219	25.020	ng	0.00
Spiked Amount				25.000		
				Recovery =	100.08%	✓
73) Bromofluorobenzene (SS3)	23.29	174	637967	25.906	ng	0.00
Spiked Amount				25.000		
				Recovery =	103.64%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	16205	0.590	ng	# 67
3) Dichlorodifluoromethane	4.98	85	25176	0.497	ng	98
4) Chloromethane	5.32	50	1377	<del>0.042</del>	ng	# 57
5) Freon 114	5.53	135	61	N.D.	✓	
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	409	N.D.		
8) Bromomethane	0.00	94	0	N.D.	✓	
9) Chloroethane	6.81	64	61	N.D.	✓	
10) Ethanol	7.11	45	28799m	1.574	ng	
11) Acetonitrile	7.44	41	10668	0.202	ng	78
12) Acrolein	7.67	56	2735	0.209	ng	96
13) Acetone	7.85	58	183964	9.823	ng	M# 81
14) Trichlorofluoromethane	8.15	101	14360	0.331	ng	96
15) Isopropanol	8.32	45	64253	1.076	ng	93
16) Acrylonitrile	8.62	53	108	N.D.	✓	
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	9.27	59	15125m	0.298	ng	
19) Methylene Chloride	9.36	84	1393	0.067	ng	92
20) Allyl Chloride	9.54	41	61	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	2521	0.128	ng	93
22) Carbon Disulfide	9.78	76	25424	0.320	ng	97
23) trans-1,2-Dichloroethene	10.73	61	198	N.D.	✓	
24) 1,1-Dichloroethane	0.00	63	0	N.D.	✓	
25) Methyl tert-Butyl Ether	11.19	73	65	N.D.	✓	
26) Vinyl Acetate	11.32	86	2627	0.759	ng	# 1
27) 2-Butanone	11.67	72	48040	3.515	ng	# 82
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	71057	<del>4.243</del>	ng	M# 1
30) Ethyl Acetate	12.70	61	1778	0.241	ng	78
31) n-Hexane	12.70	57	26883	0.722	ng	90

*Prody/18*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	679537	21.421 ng		100
34) Tetrahydrofuran	13.38	72	894	0.068 ng	#	12
35) Ethyl tert-Butyl Ether	13.49	87	177	N.D. ✓		
36) 1,2-Dichloroethane	13.74	62	57	N.D. ✓		
38) 1,1,1-Trichloroethane	14.30	97	624	N.D. ✓		
39) Isopropyl Acetate	14.98	61	239	N.D.		
40) 1-Butanol	14.84	56	61886	3.074 ng		86
41) Benzene	14.98	78	51664	0.674 ng		99
42) Carbon Tetrachloride	15.21	117	3565	0.121 ng		98
43) Cyclohexane	15.40	84	4656	0.156 ng	#	1
44) tert-Amyl Methyl Ether	15.84	73	688	N.D. ✓		
45) 1,2-Dichloropropane	0.00	63	0	N.D. ✓		
46) Bromodichloromethane	16.46	83	133216	5.138 ng		99
47) Trichloroethene	16.54	130	607	N.D. ✓		
48) 1,4-Dioxane	16.50	88	56	N.D. ✓		
49) Isooctane	16.62	57	6479	0.074 ng		63
50) Methyl Methacrylate	16.99	100	1017	<del>0.133 ng</del> NR	#	1
51) n-Heptane	16.98	71	3752	0.184 ng	#	80
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	11394	0.560 ng		77
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	134127	<del>7.077 ng</del> NR		7
58) Toluene	19.06	91	3370153	40.940 ng		99
59) 2-Hexanone	19.37	43	56865	1.002 ng		77
60) Dibromochloromethane	19.61	129	7011	0.315 ng		97
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.20	43	3522	0.061 ng	#	60
63) n-Octane	20.35	57	9224	0.507 ng		86
64) Tetrachloroethene	20.54	166	6843	0.281 ng		94
65) Chlorobenzene	21.43	112	1282	N.D. ✓		
66) Ethylbenzene	21.88	91	133662	1.416 ng		94
67) m- & p-Xylene	22.10	91	580534	9.195 ng		92
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	12043	0.213 ng	#	60
70) o-Xylene	22.71	91	202496	2.971 ng		94
71) n-Nonane	22.98	43	41111	0.849 ng	#	79
72) 1,1,2,2-Tetrachloroethane	22.71	83	2068	<del>0.073 ng</del> NR		17
74) Cumene	23.46	105	13597	0.150 ng	#	95
75) alpha-Pinene	23.97	93	5857	0.125 ng	#	46
76) n-Propylbenzene	24.10	91	89757	0.777 ng	#	1
77) 3-Ethyltoluene	24.22	105	249540	2.583 ng		99
78) 4-Ethyltoluene	24.28	105	124216	1.379 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	93295	1.147 ng		100

*6/6/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	3743	0.085	ng	# 83
81) 2-Ethyltoluene	24.61	105	98989	1.011	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	308833	3.728	ng	89
83) n-Decane	24.98	57	113838	2.498	ng	82
84) Benzyl Chloride	25.04	91	832	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	113	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	43457	0.866	ng	99
87) sec-Butylbenzene	25.21	105	12332	0.116	ng	91
88) p-Isopropyltoluene	25.40	119	37875	0.435	ng	79
89) 1,2,3-Trimethylbenzene	25.40	105	88178	1.088	ng	89
90) 1,2-Dichlorobenzene	25.58	146	136	N.D.	✓	
91) d-Limonene	25.58	68	23497	0.712	ng	95
92) 1,2-Dibromo-3-Chloropr...	26.50	157	510	N.D.	✓	
93) n-Undecane	26.50	57	125241	2.626	ng	# 69
94) 1,2,4-Trichlorobenzene	27.64	180	261	N.D.	✓	
95) Naphthalene	27.77	128	42322	0.387	ng	94
96) n-Dodecane	27.74	57	81957	1.728	ng	78
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

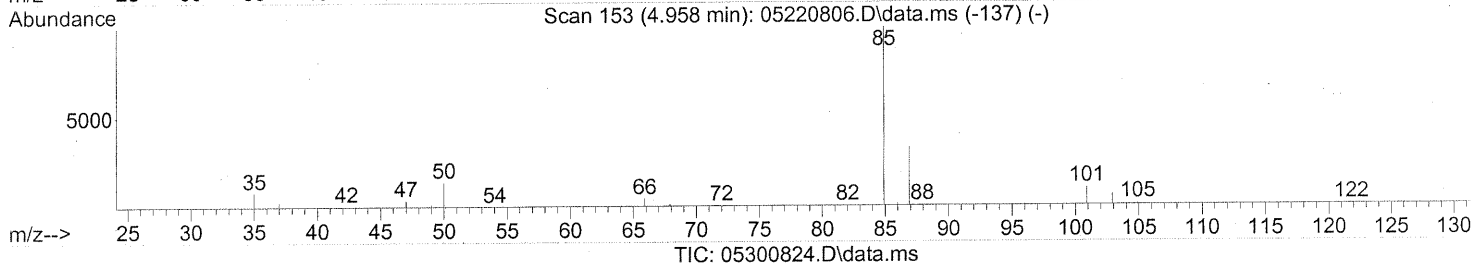
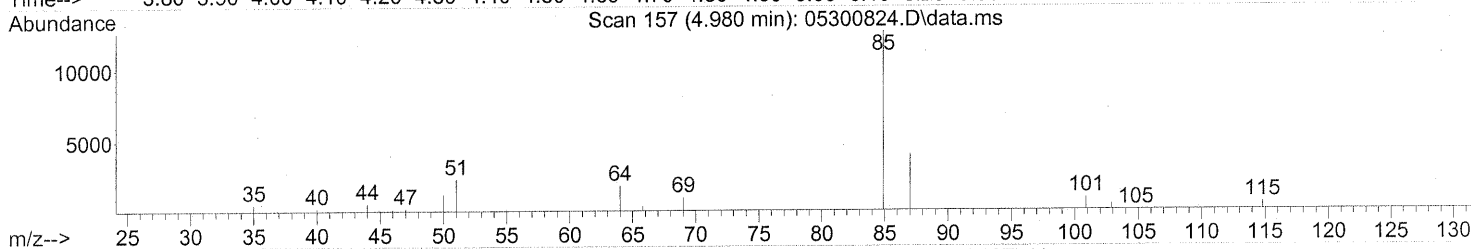
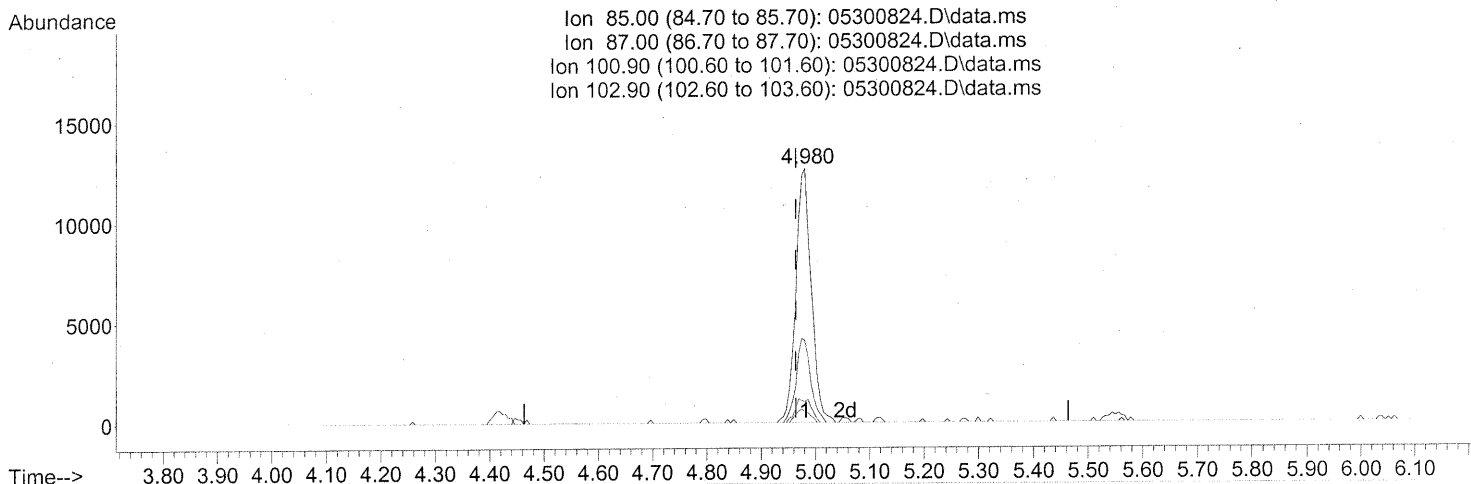
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Fedosto*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.980min (+0.017) 0.50ng

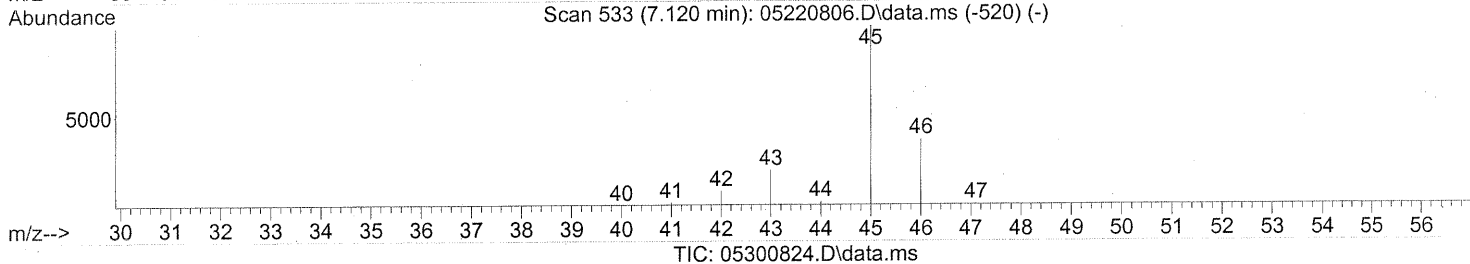
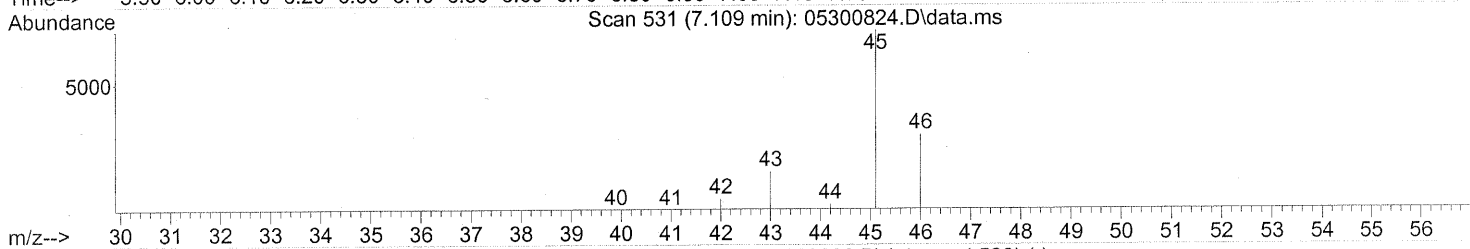
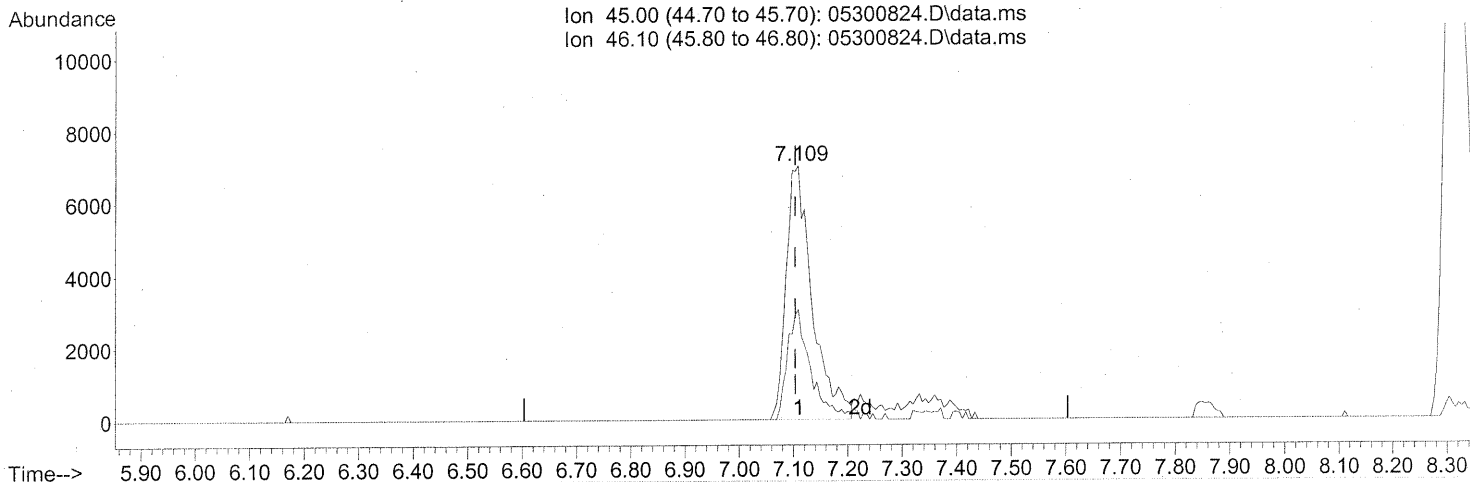
response 25176

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.19
100.90	9.30	9.50
102.90	6.00	4.57

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 05:12:48 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (+0.006) 1.28ng

response 23421

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	39.02
0.00	0.00	0.00
0.00	0.00	0.00

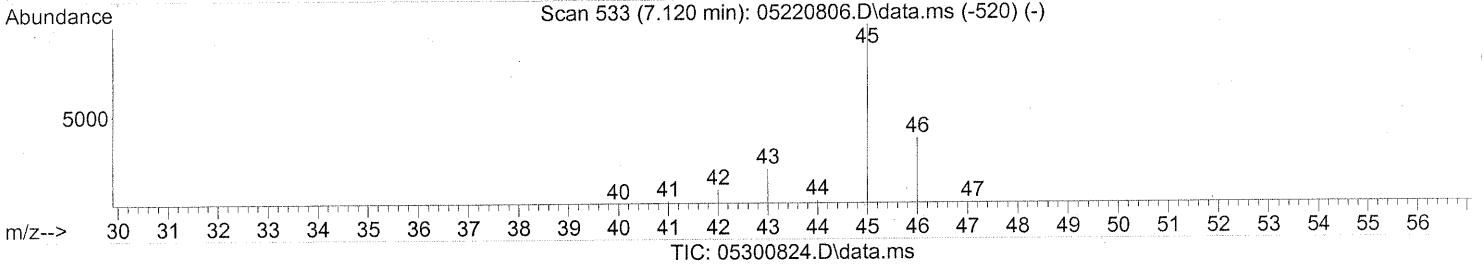
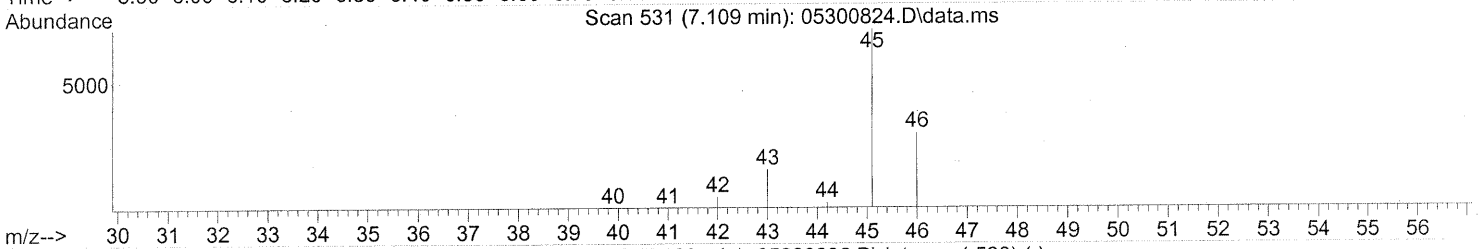
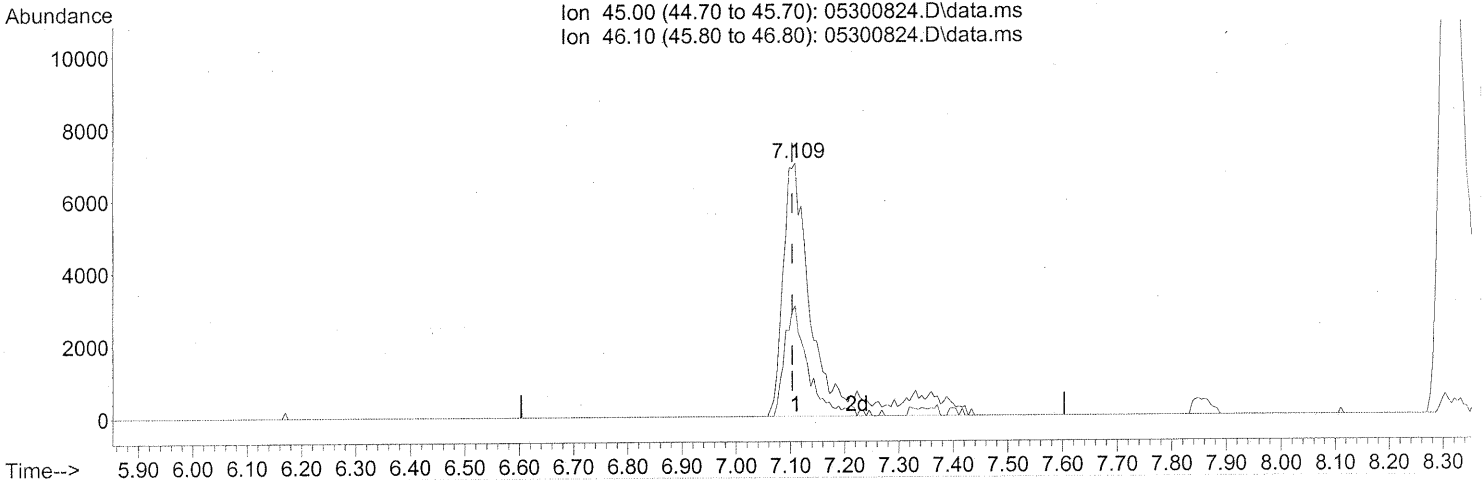
TAILING



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 05:12:48 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.109min (+0.006) 1.57ng m  
 response 28799

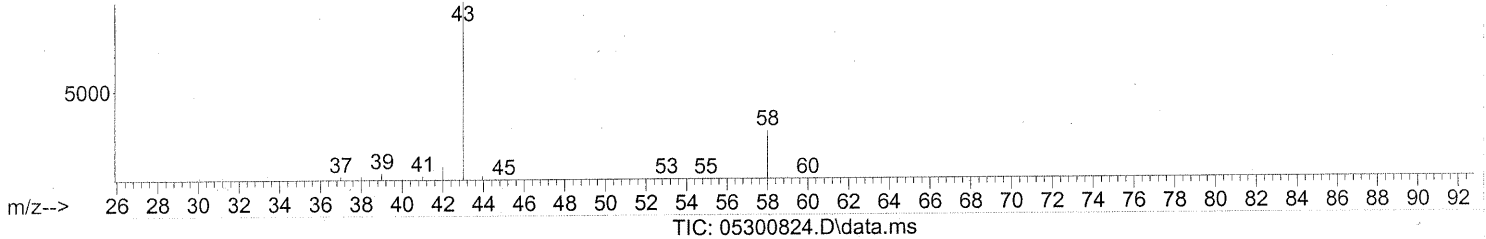
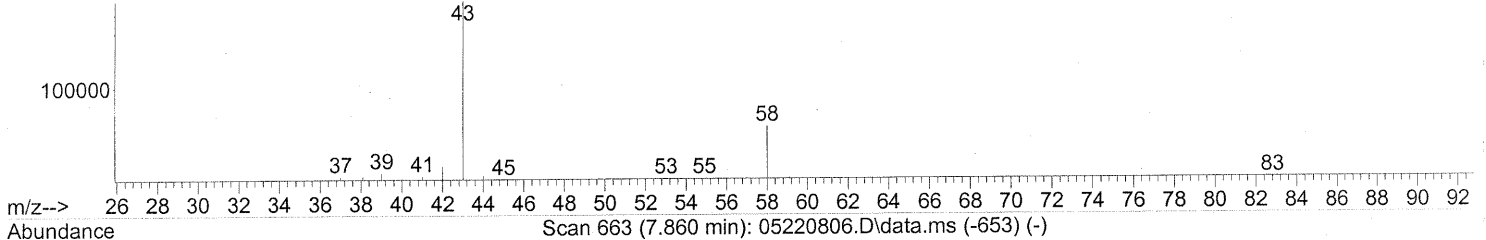
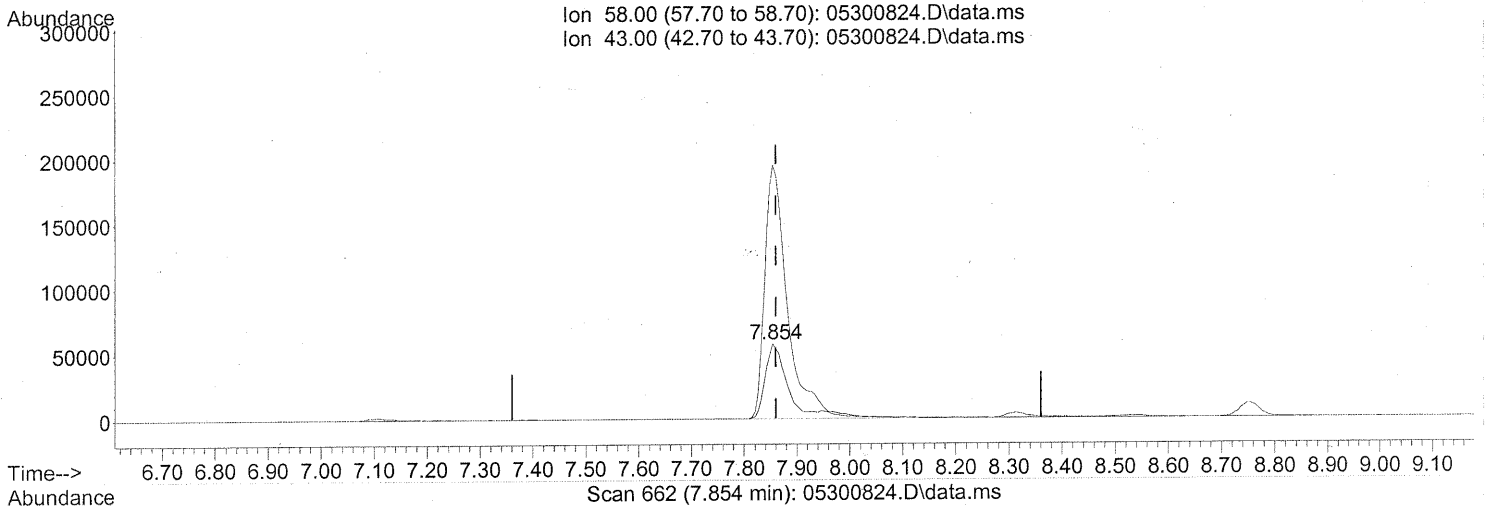
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.73
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
 6/5/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
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Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 9.82ng

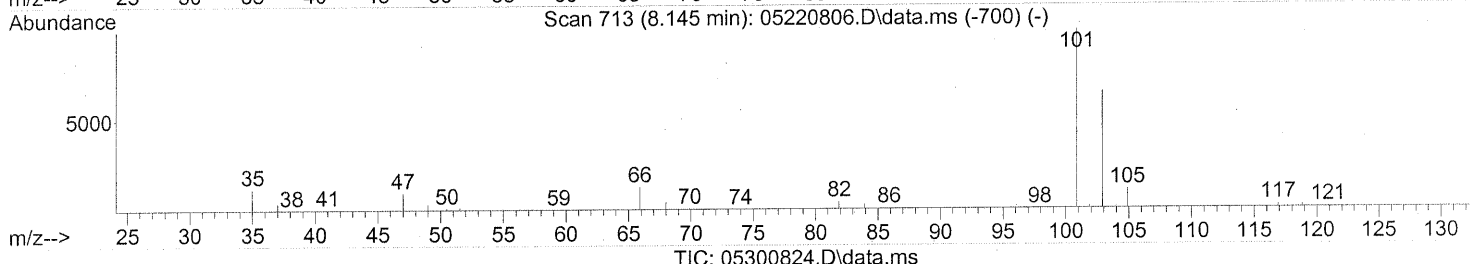
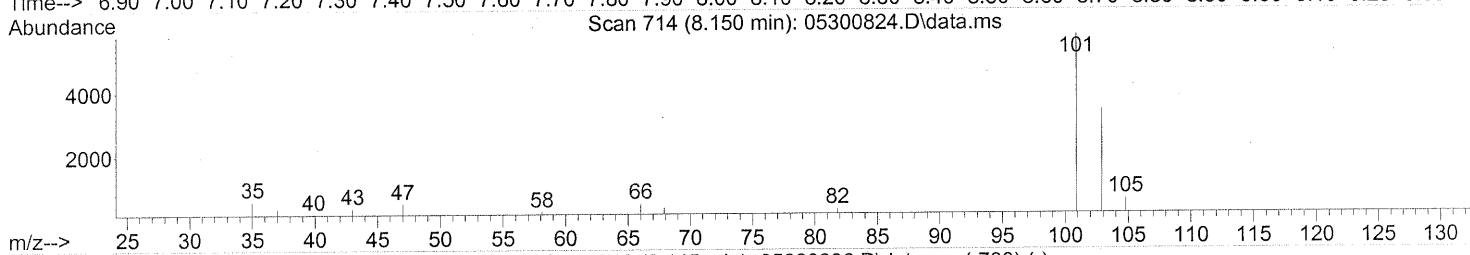
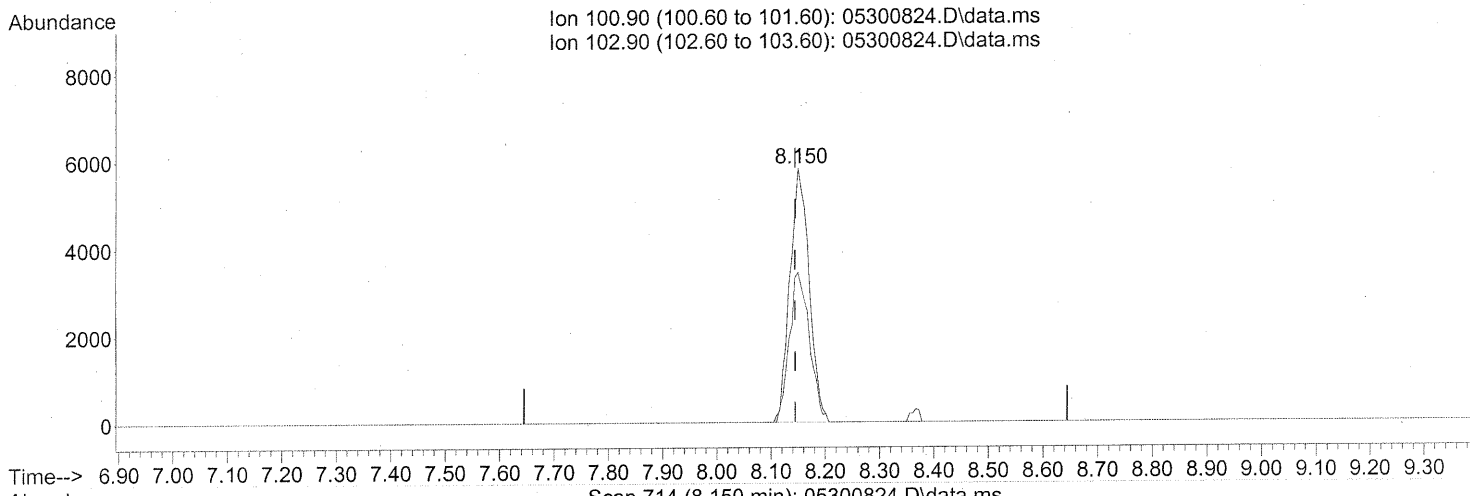
response 183964

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	318.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Acq On : 31 May 2008 3:22 am  
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 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 0.33ng

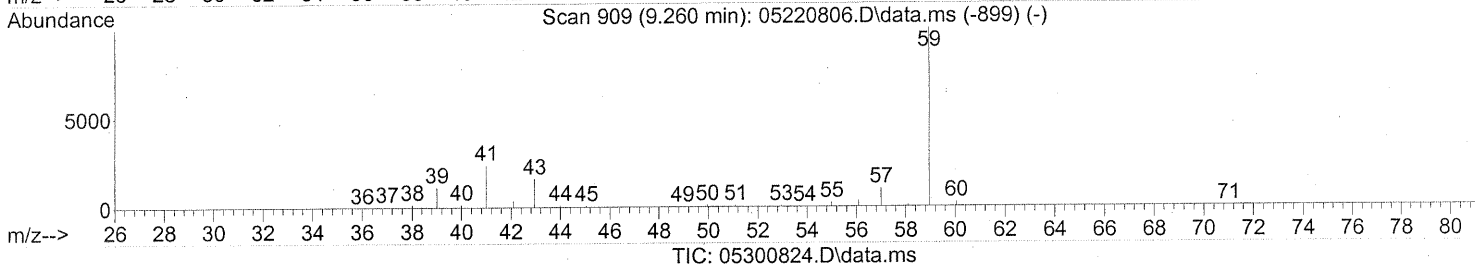
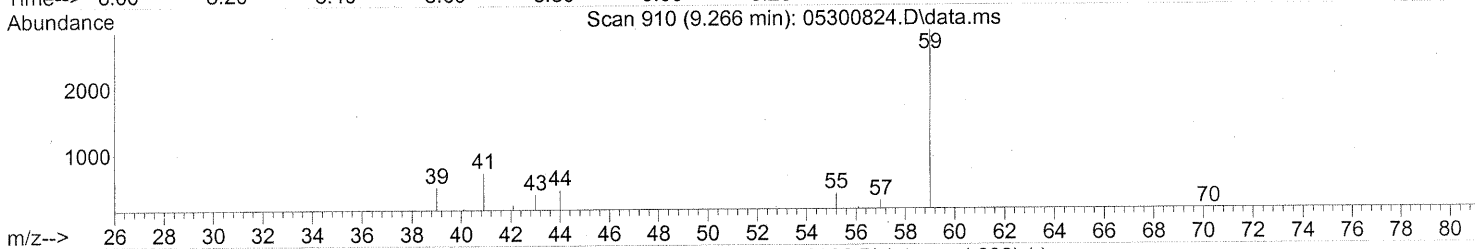
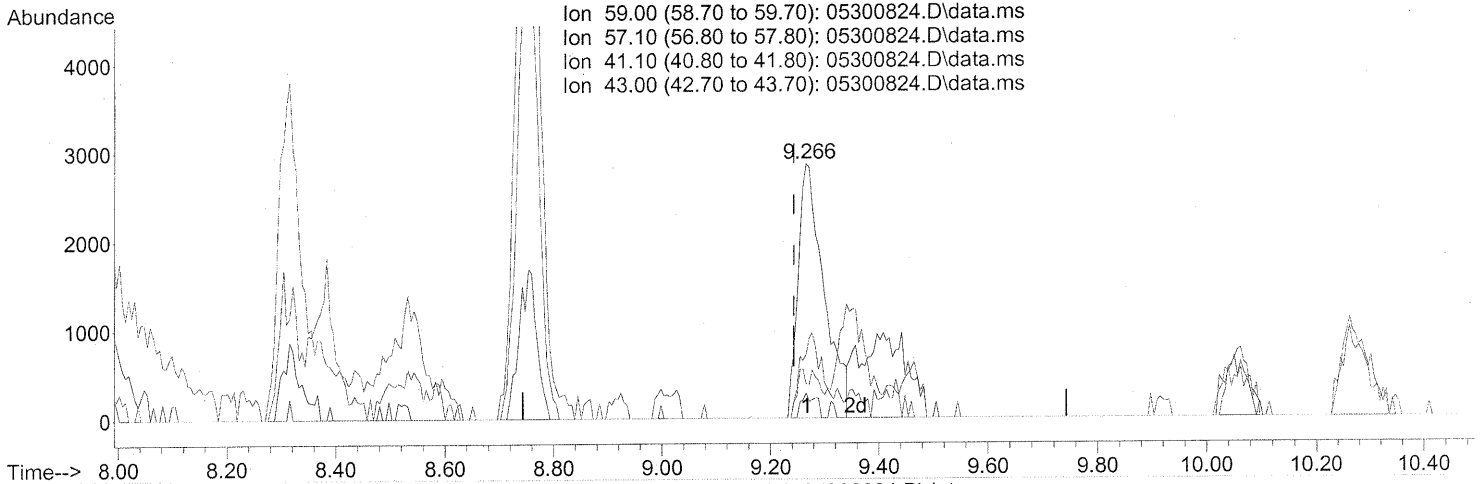
response 14360

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	61.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 05:12:48 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.19ng  
 response 9429

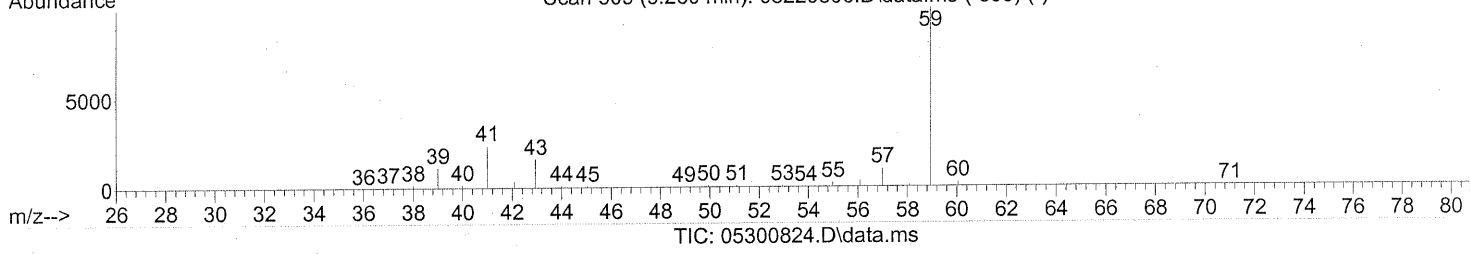
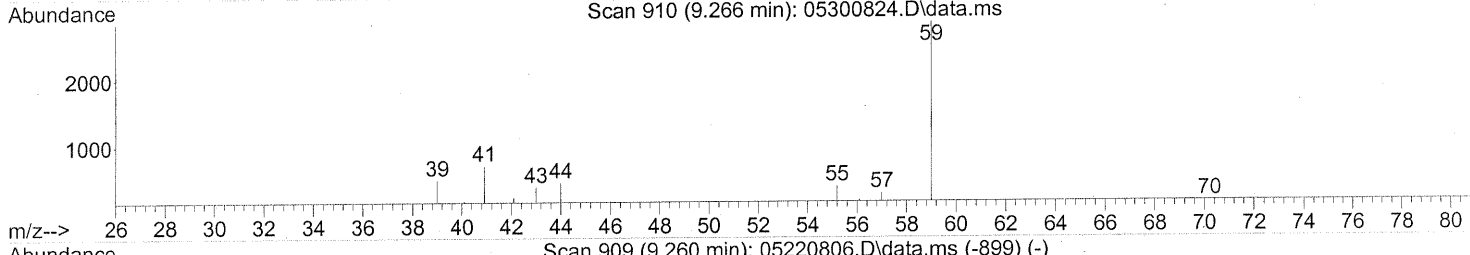
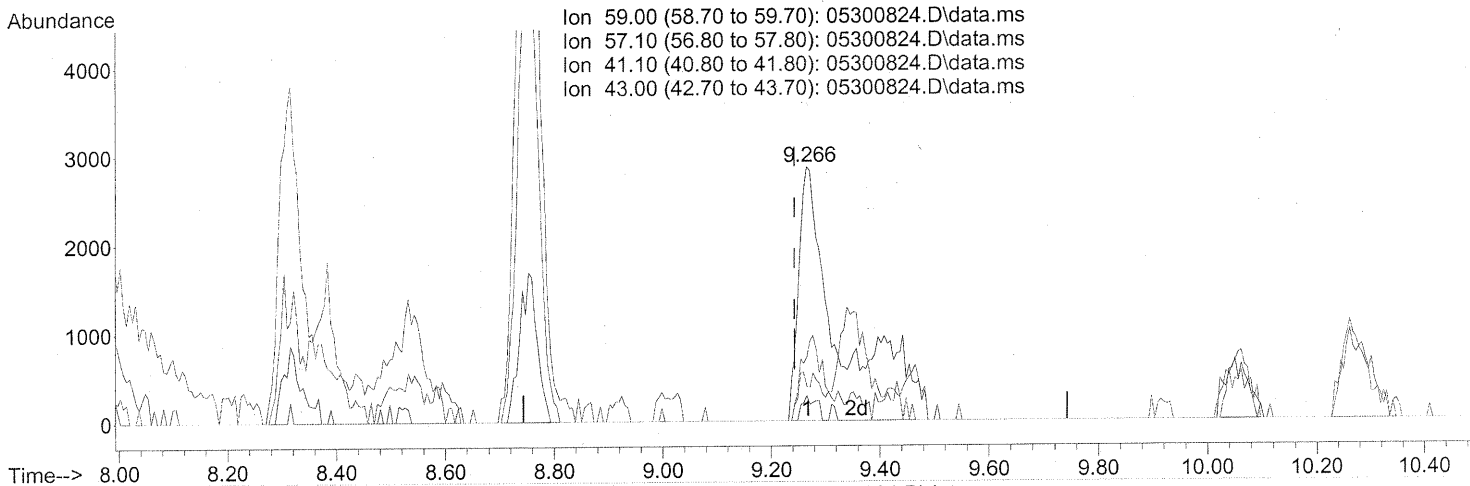
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.41
41.10	20.10	30.33
43.00	12.30	7.17

*TAILING/SPLIT PEAK*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 31 05:12:48 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.266min (+0.023) 0.30ng m  
response 15125

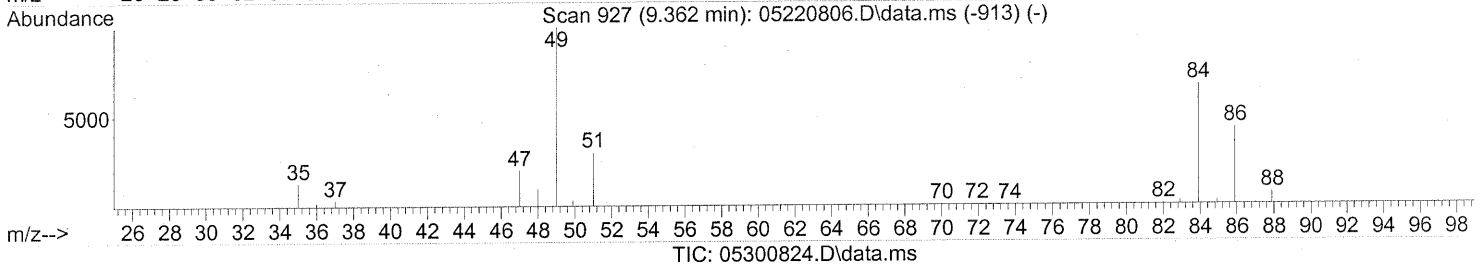
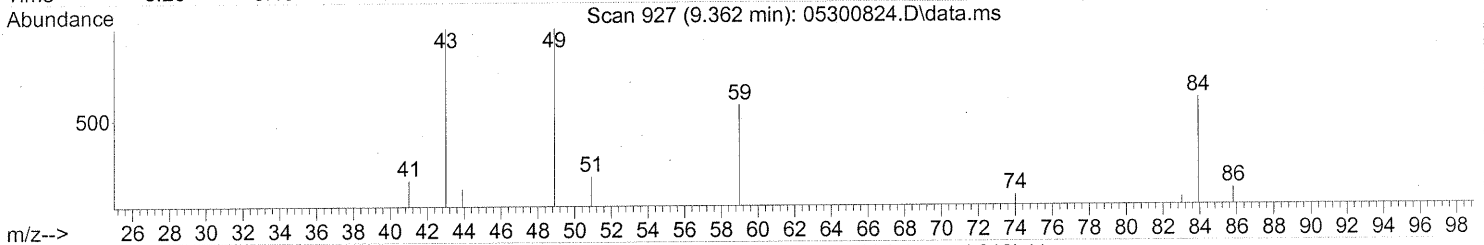
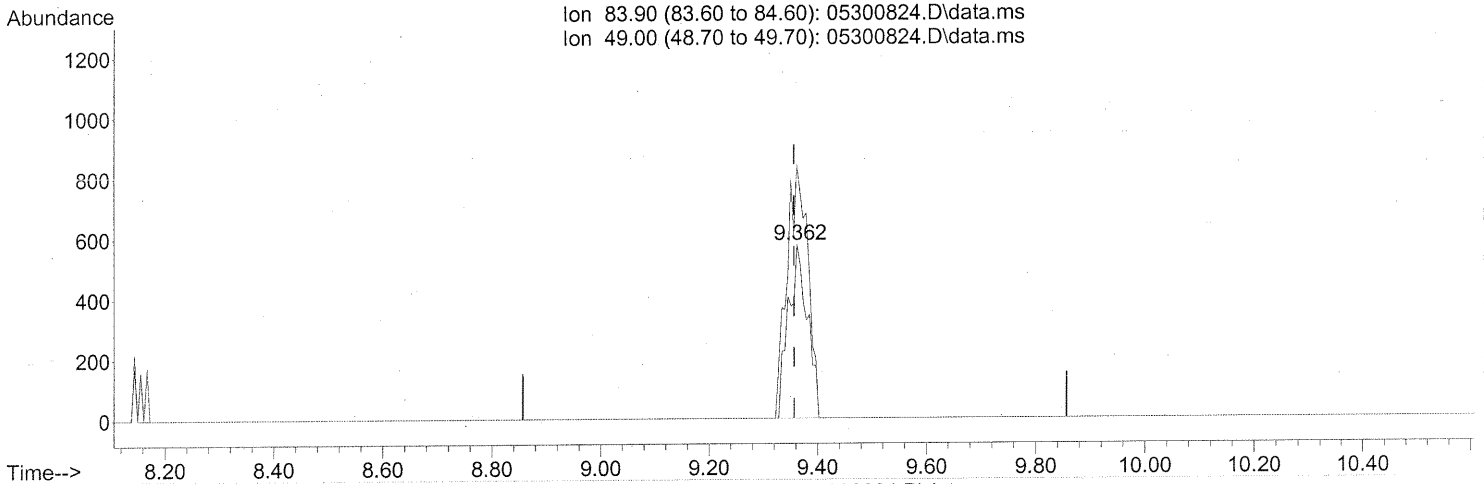
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.37
41.10	20.10	18.91
43.00	12.30	4.47

INT. THE WHOLE PEAK  
6/6/08  
6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.07ng

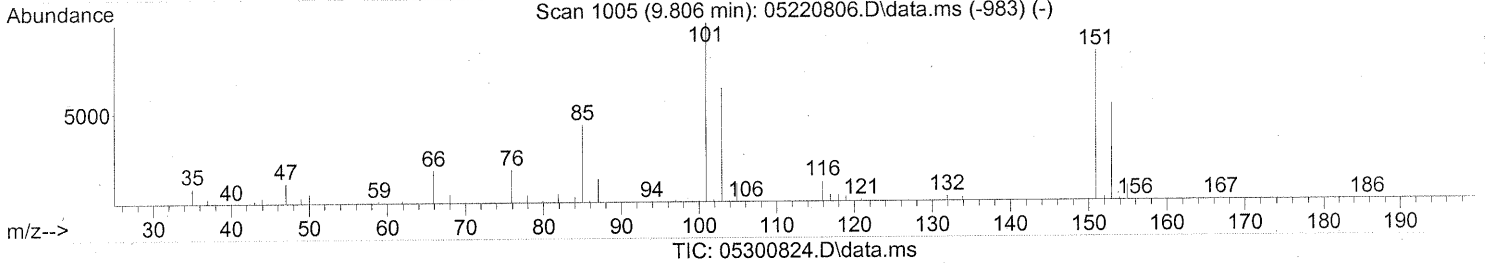
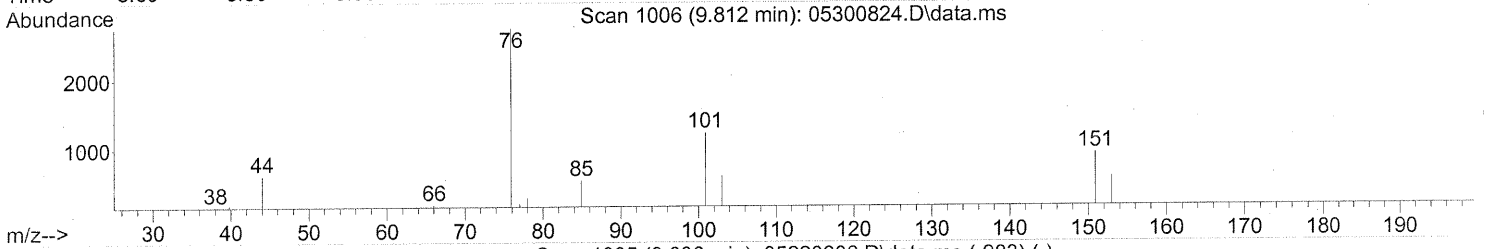
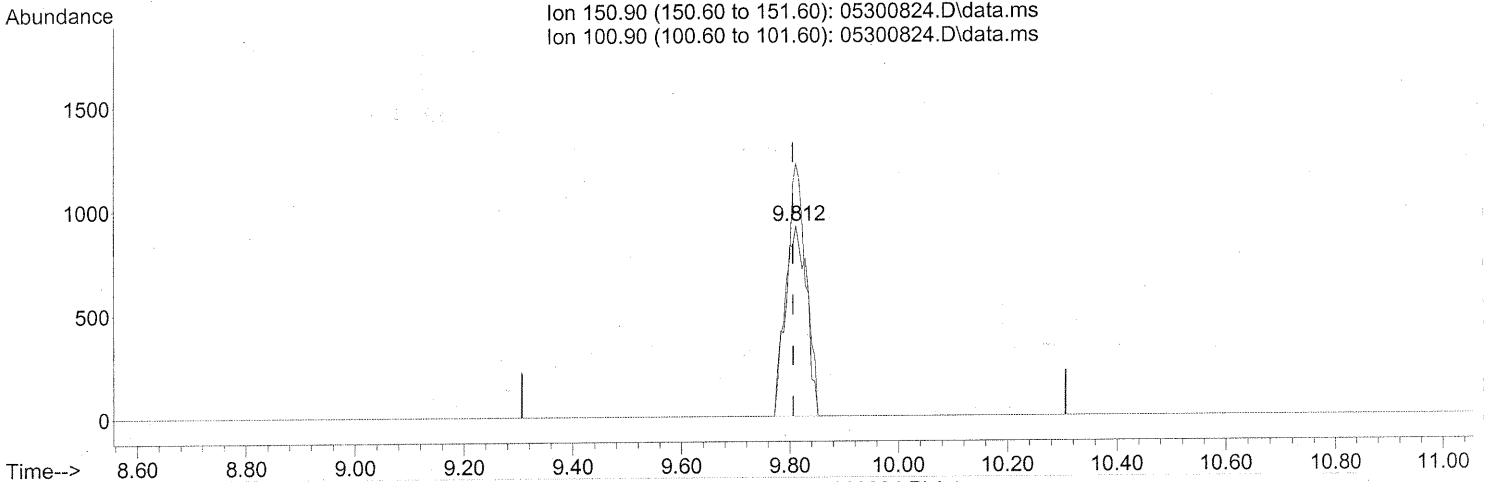
response 1393

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	162.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.13ng

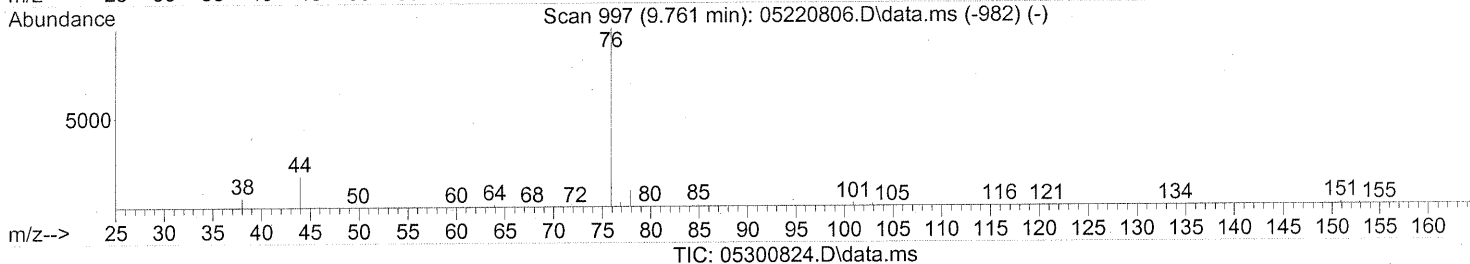
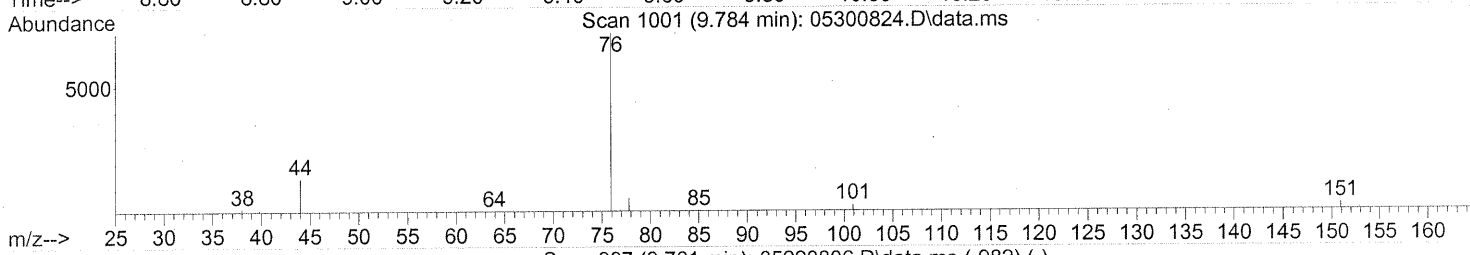
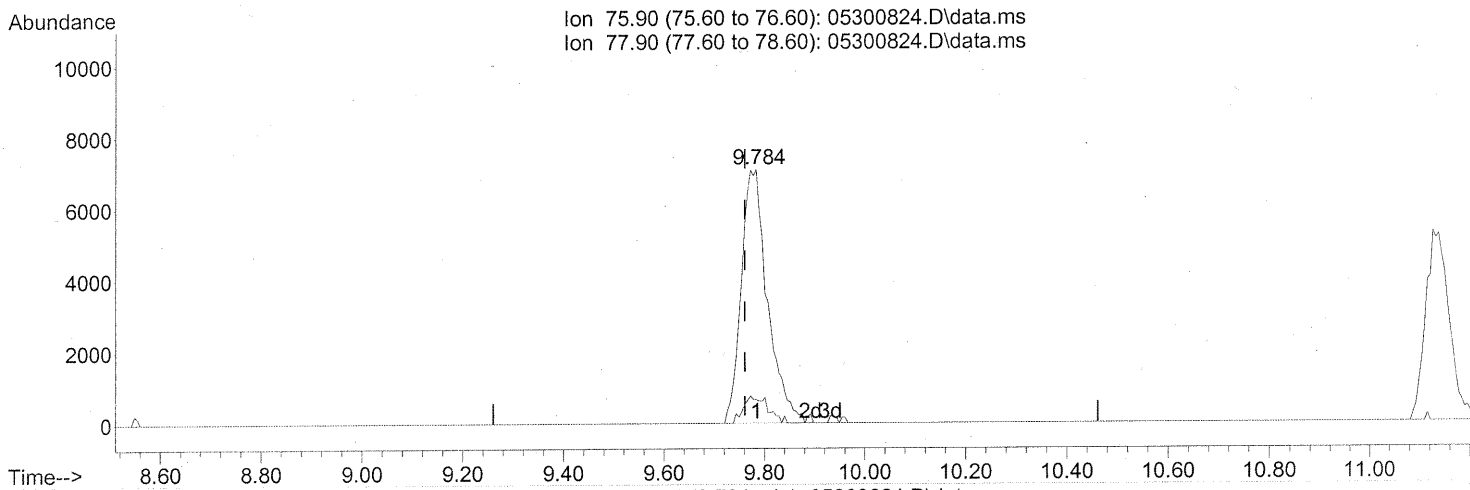
response 2521

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	117.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.784min (+0.023) 0.32ng

response 25424

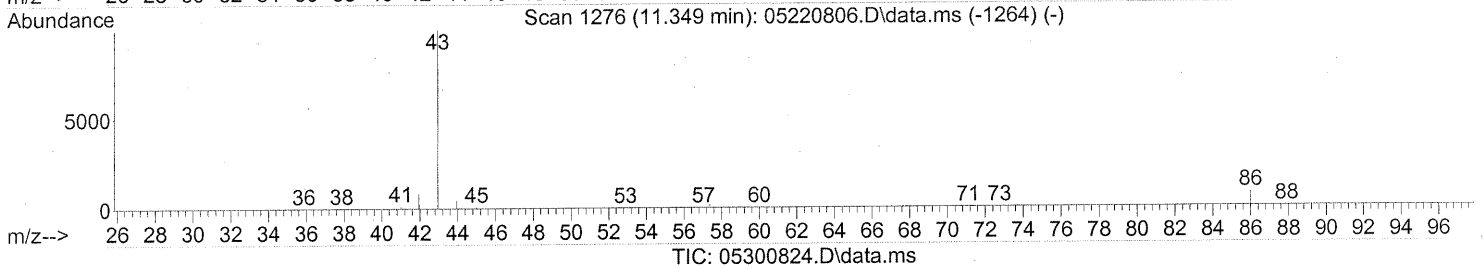
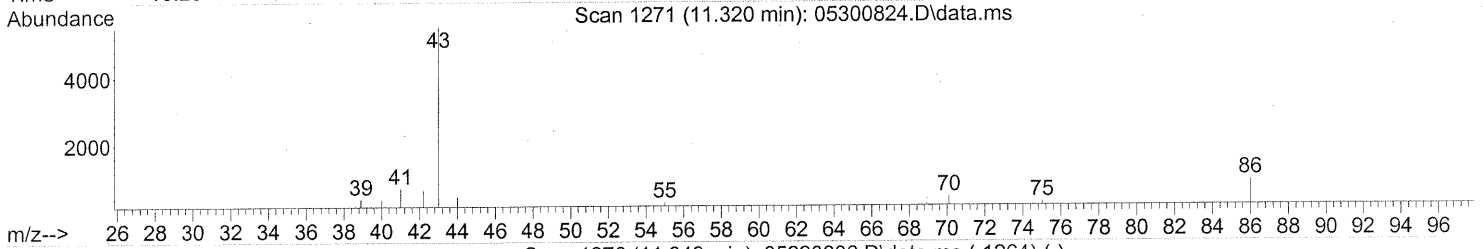
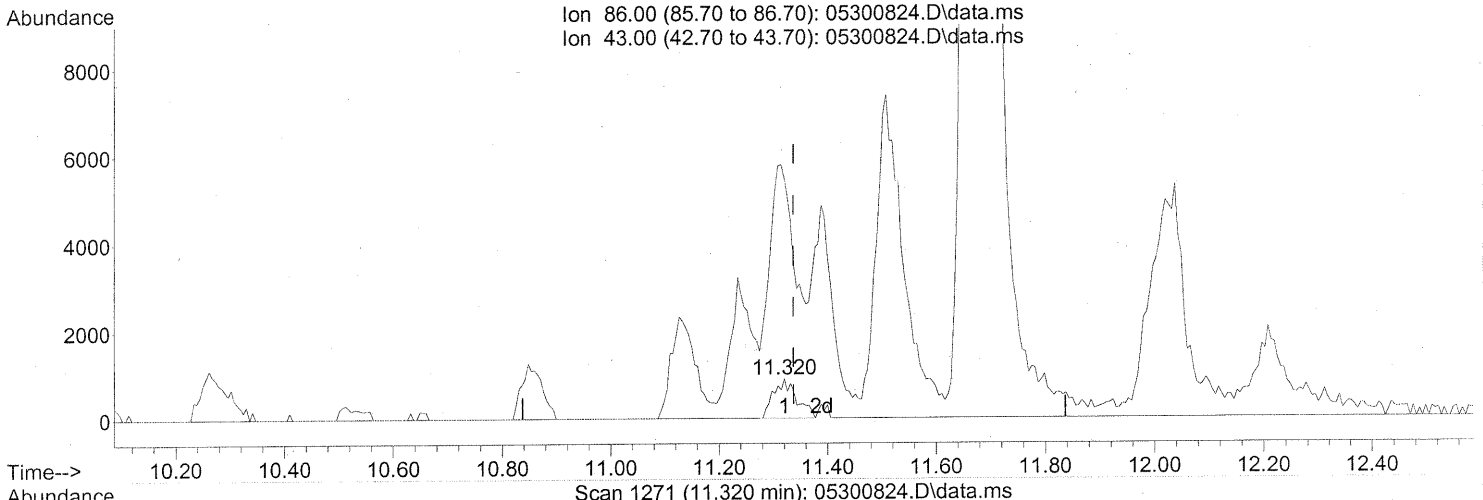
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.89
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 0.76ng

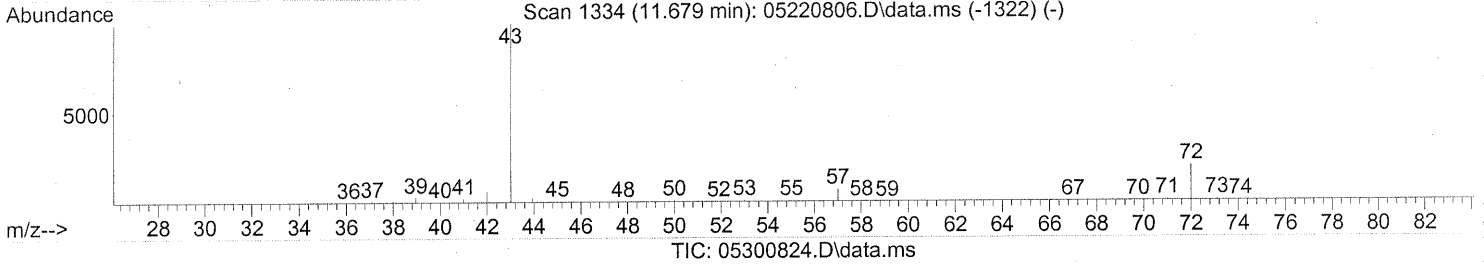
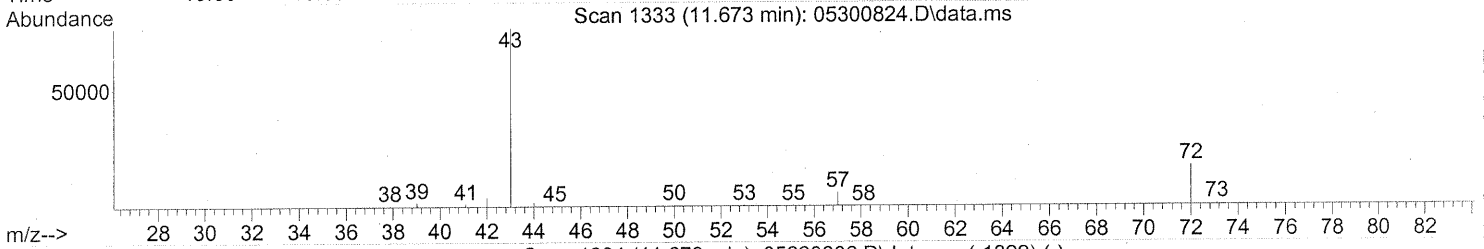
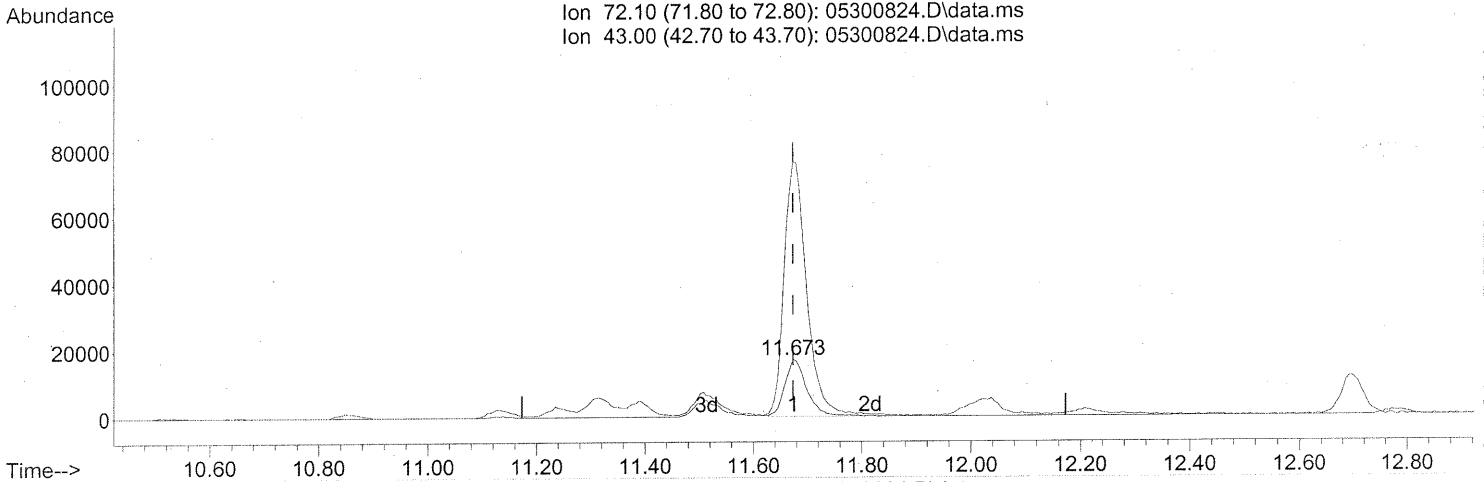
response 2627

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	761.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.673min (-0.000) 3.51ng

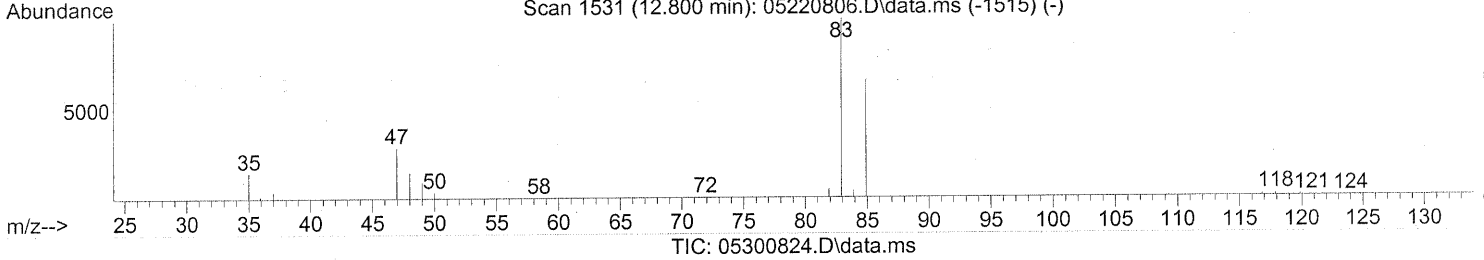
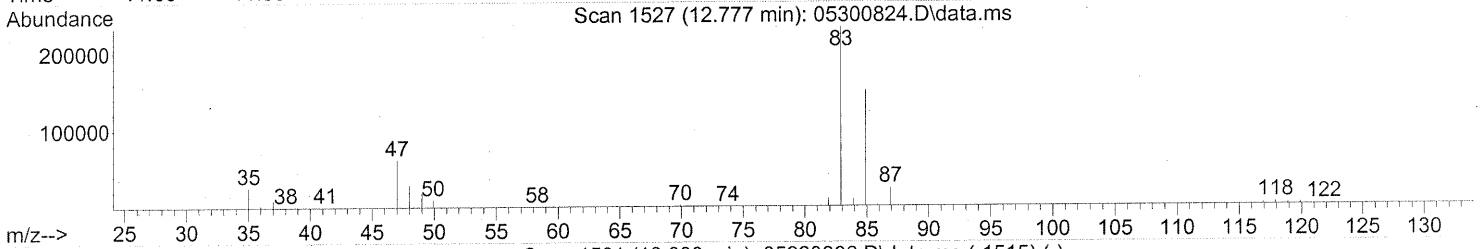
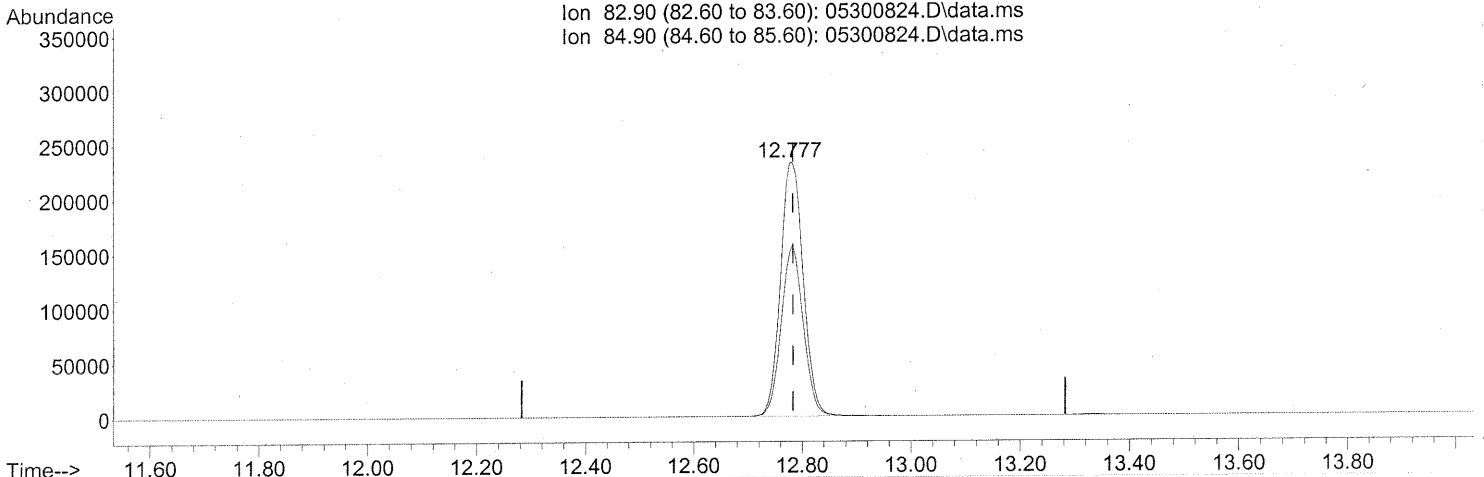
response 48040

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	456.15#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



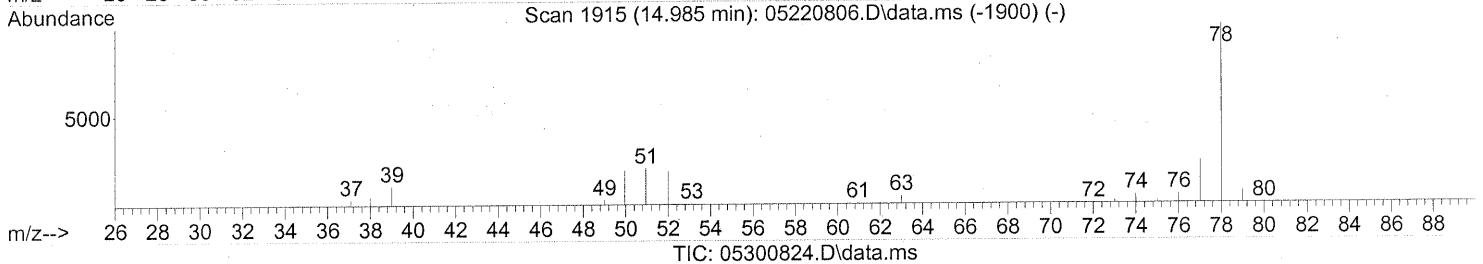
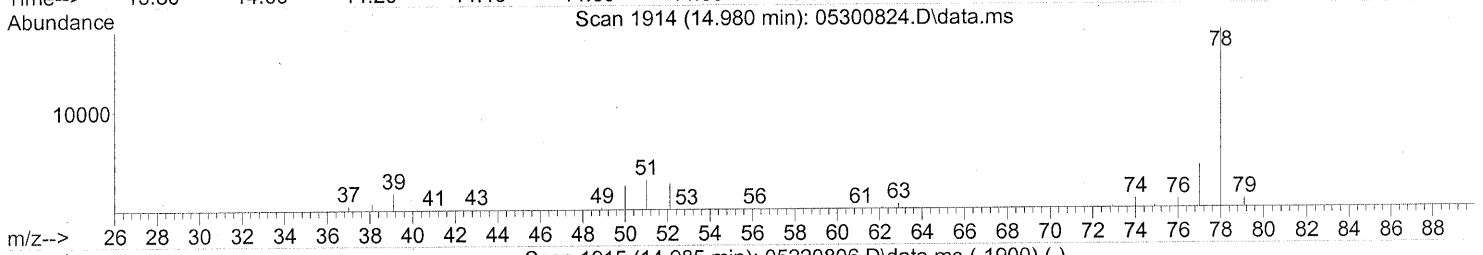
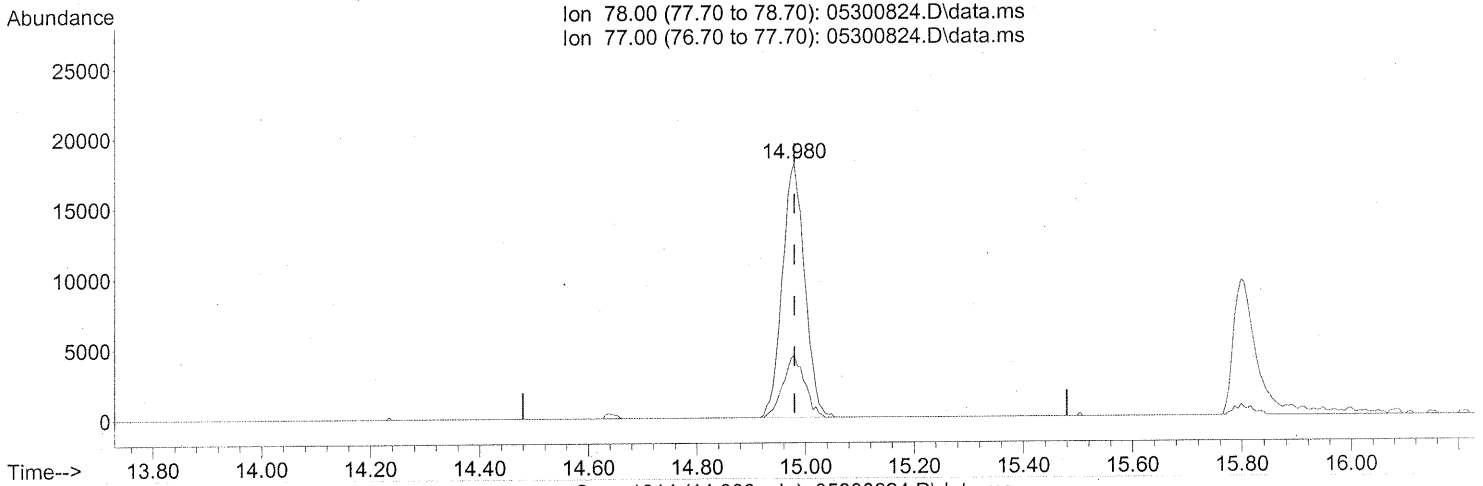
(32) Chloroform (T)  
 12.777min (-0.006) 21.42ng  
 response 679537

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.980min (-0.000) 0.67ng

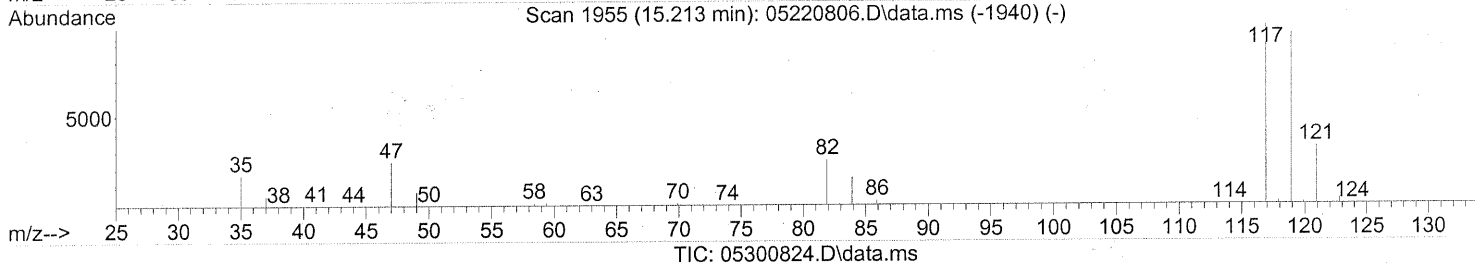
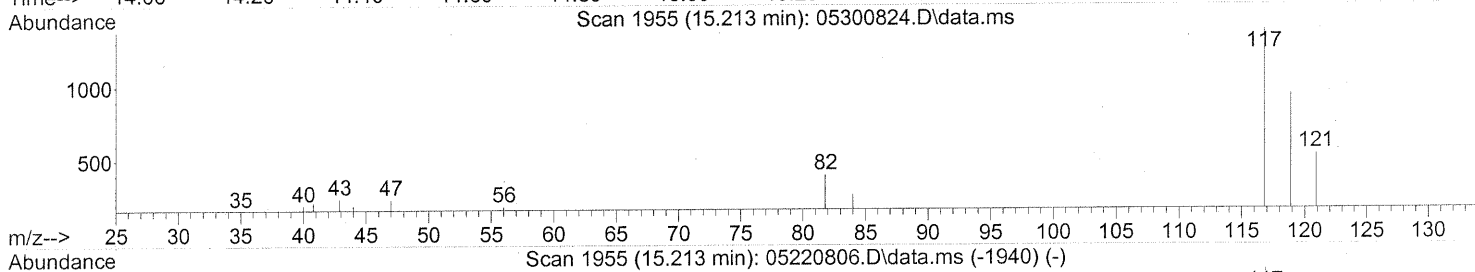
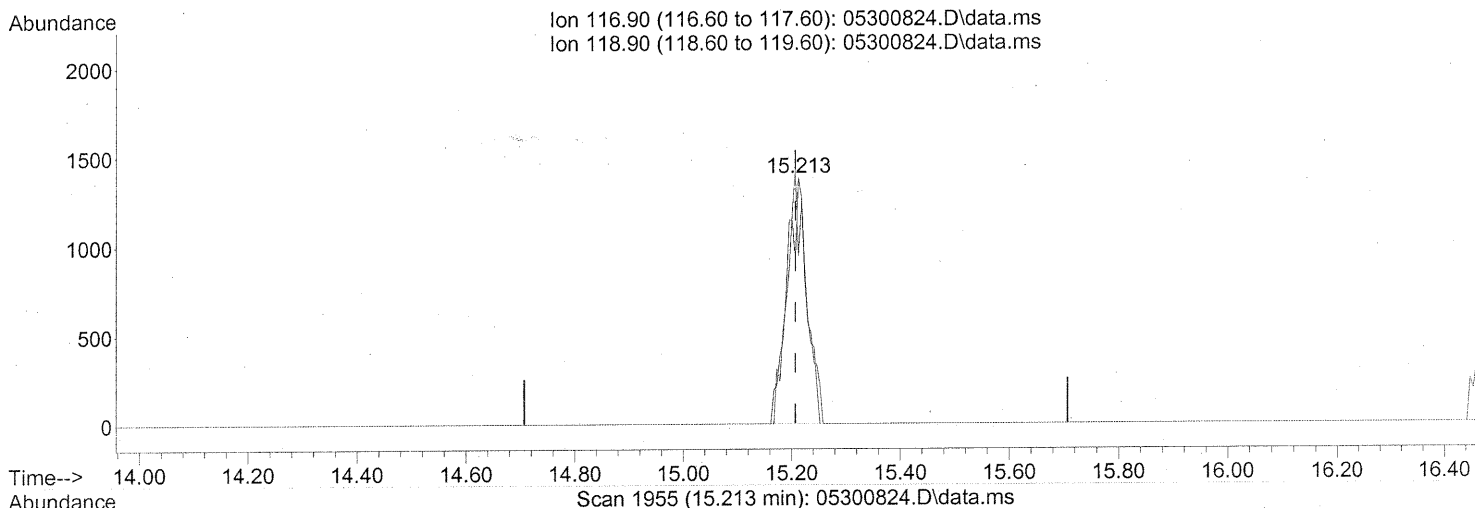
response 51664

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.12ng

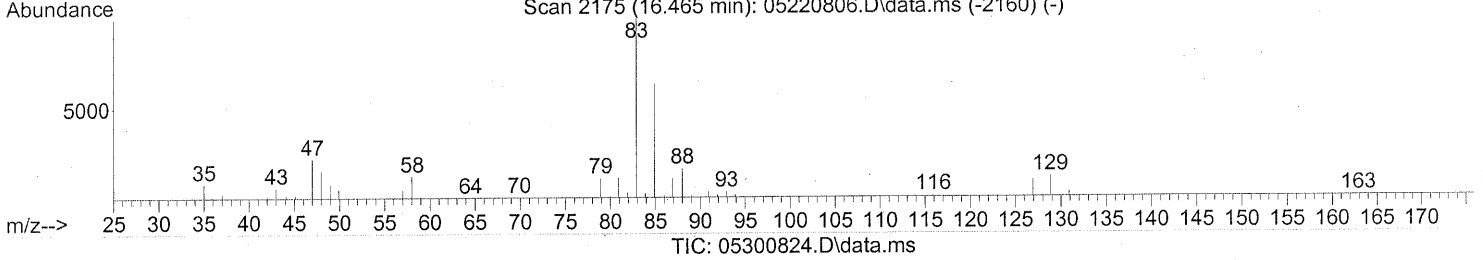
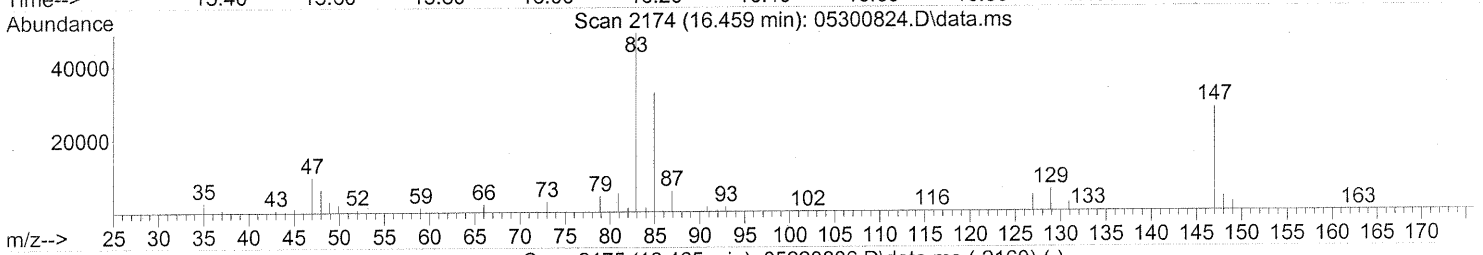
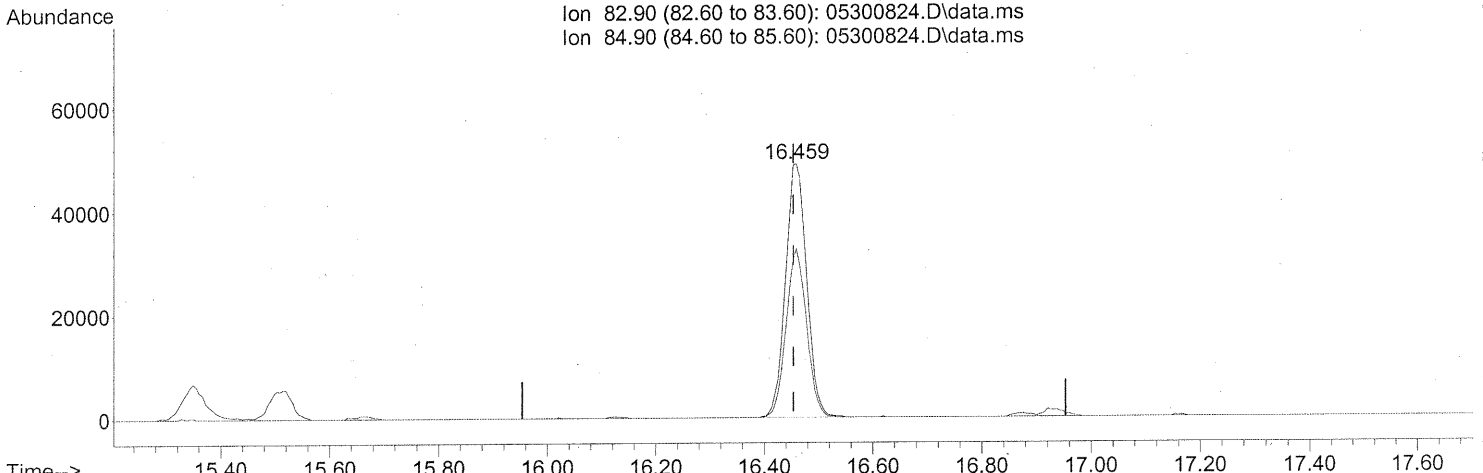
response 3565

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	98.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 5.14ng

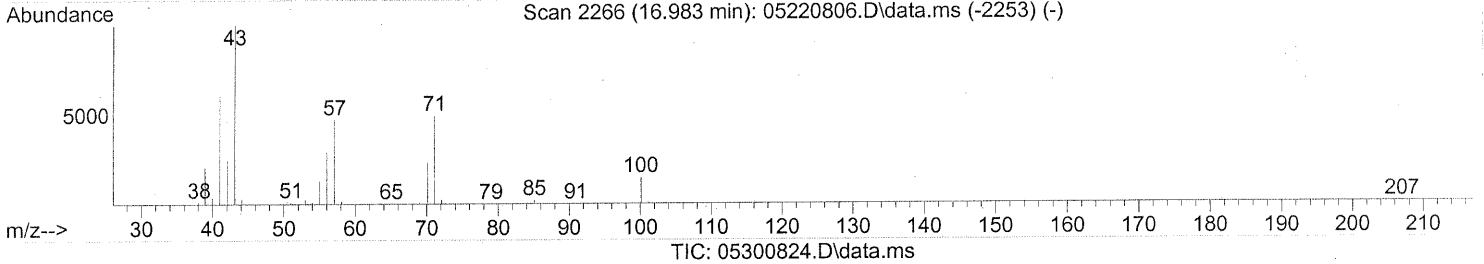
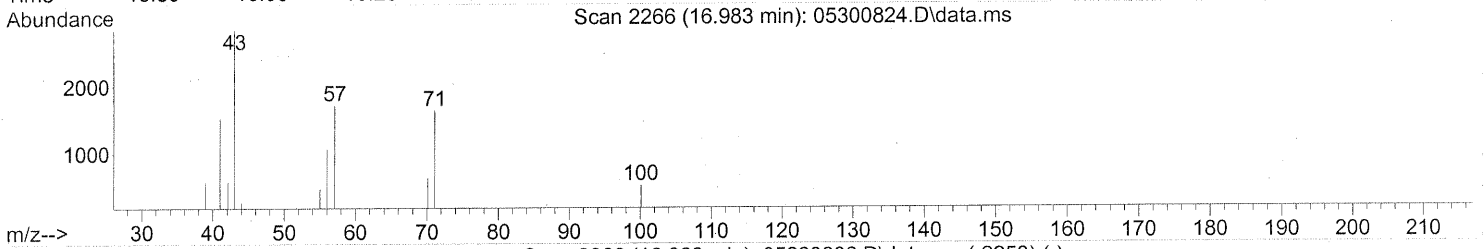
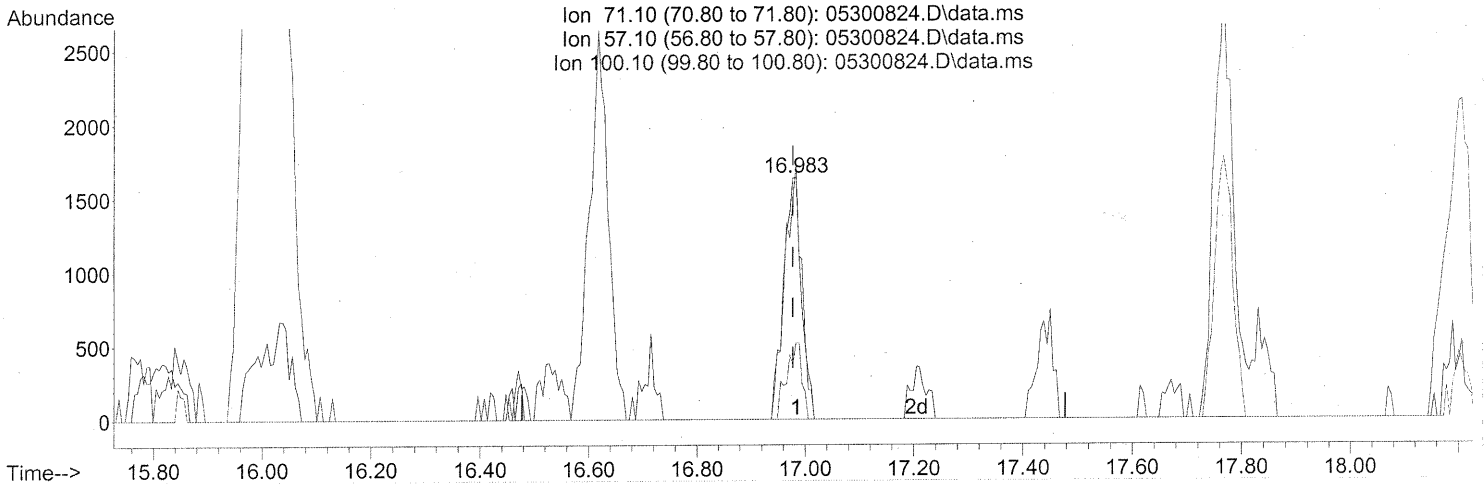
response 133216

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	64.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.983min (+0.006) 0.18ng

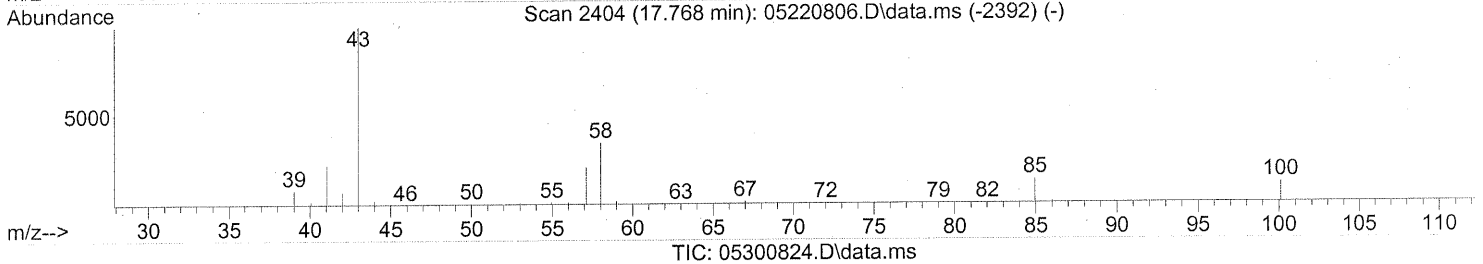
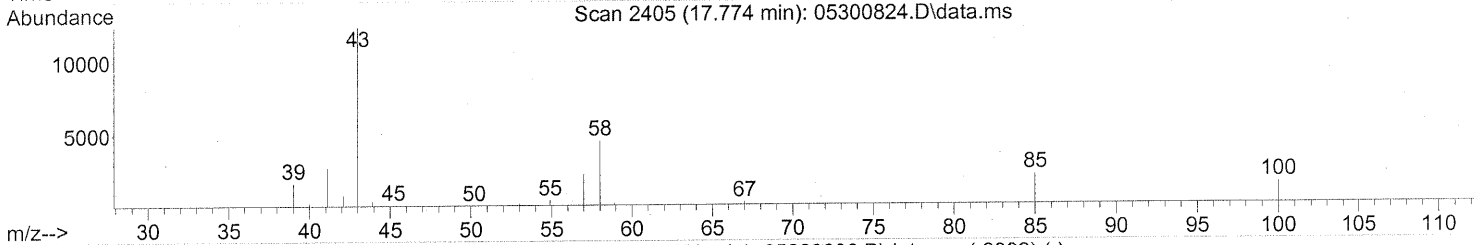
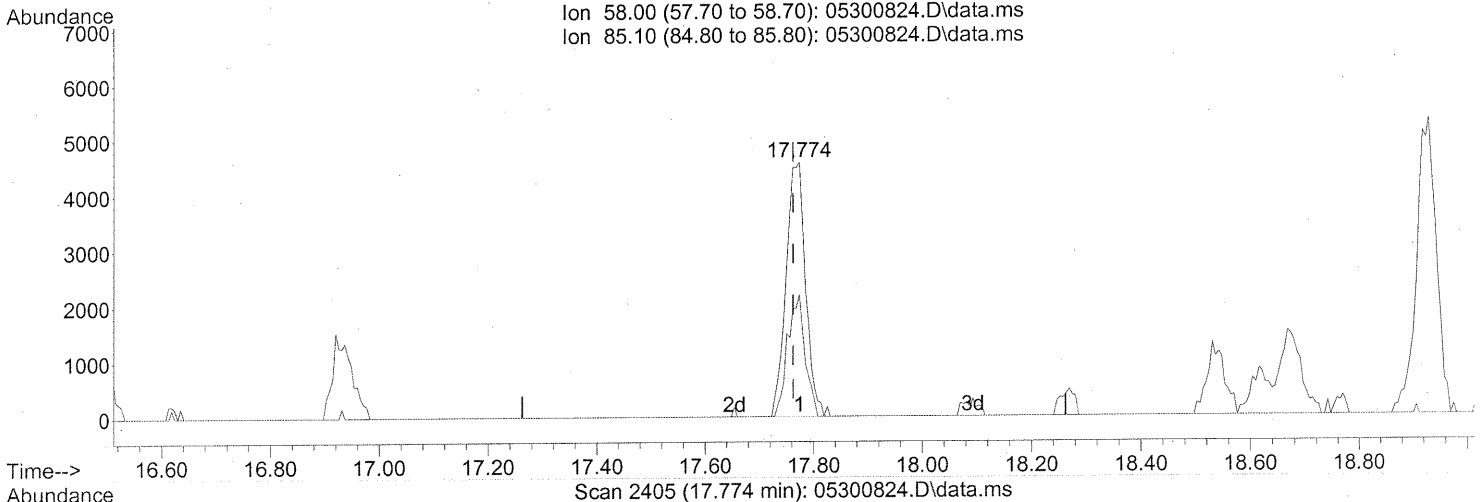
response 3752

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	98.43#
100.10	30.10	27.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.774min (+0.011) 0.56ng

response 11394

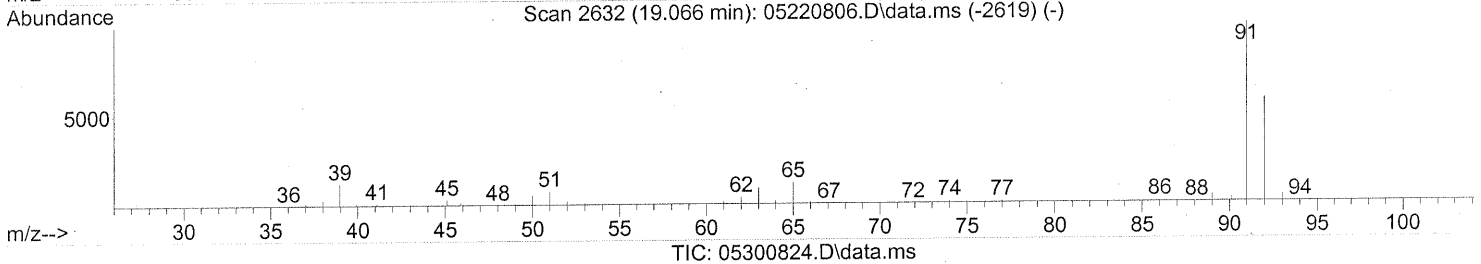
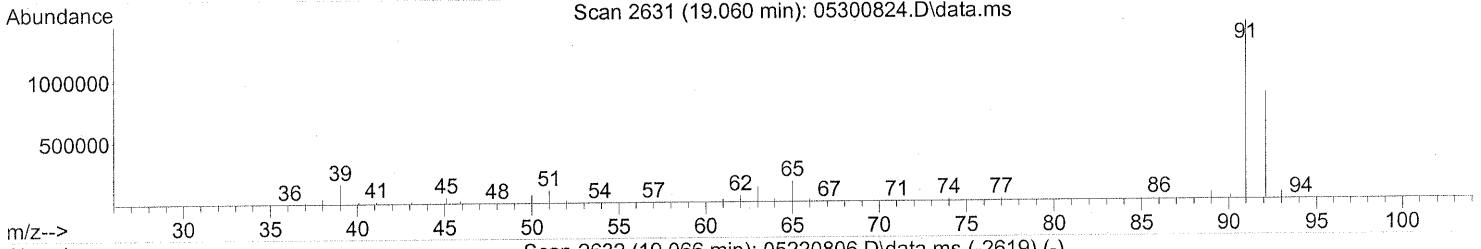
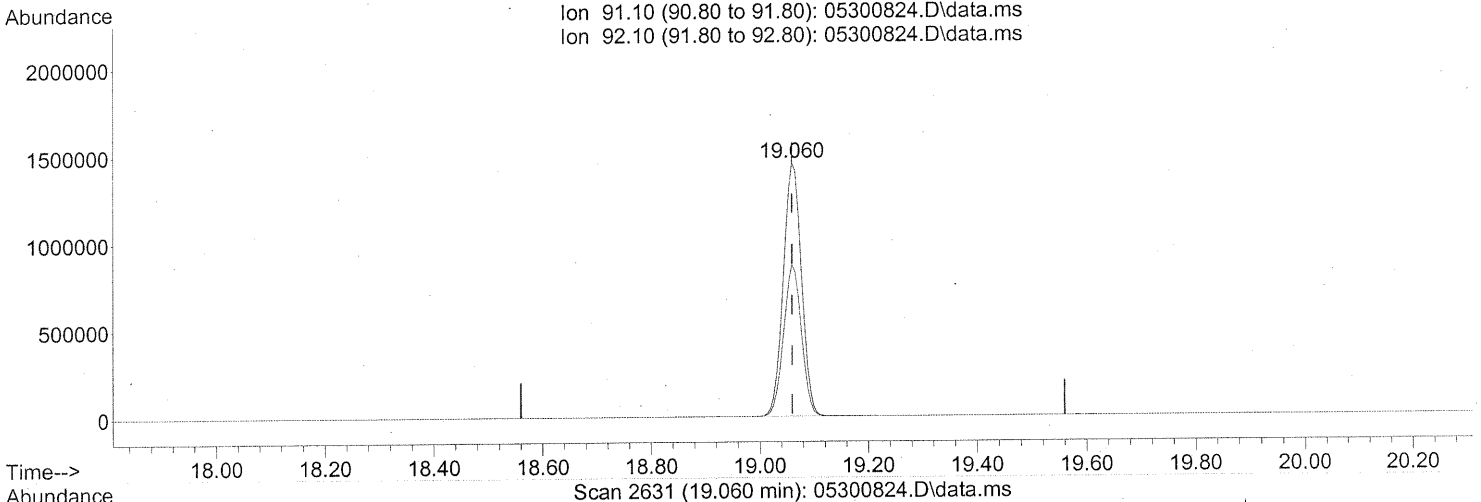
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	42.62
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

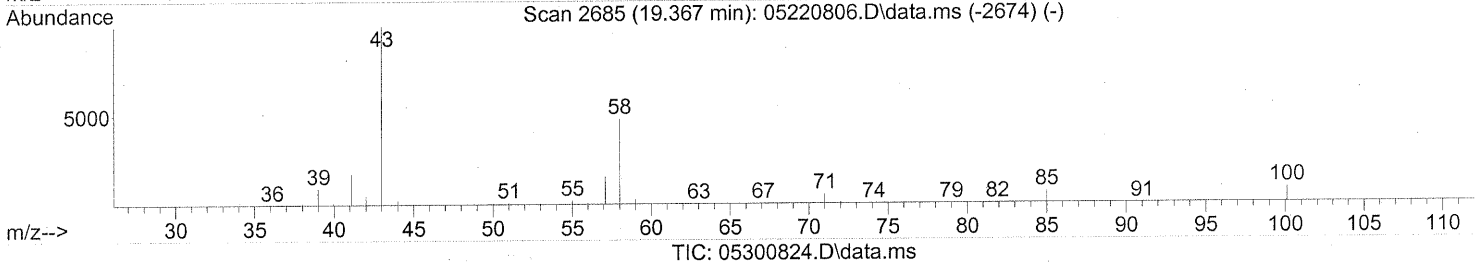
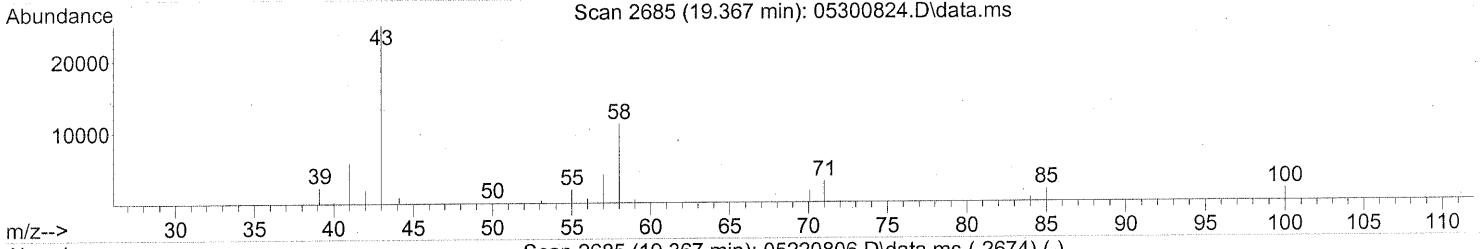
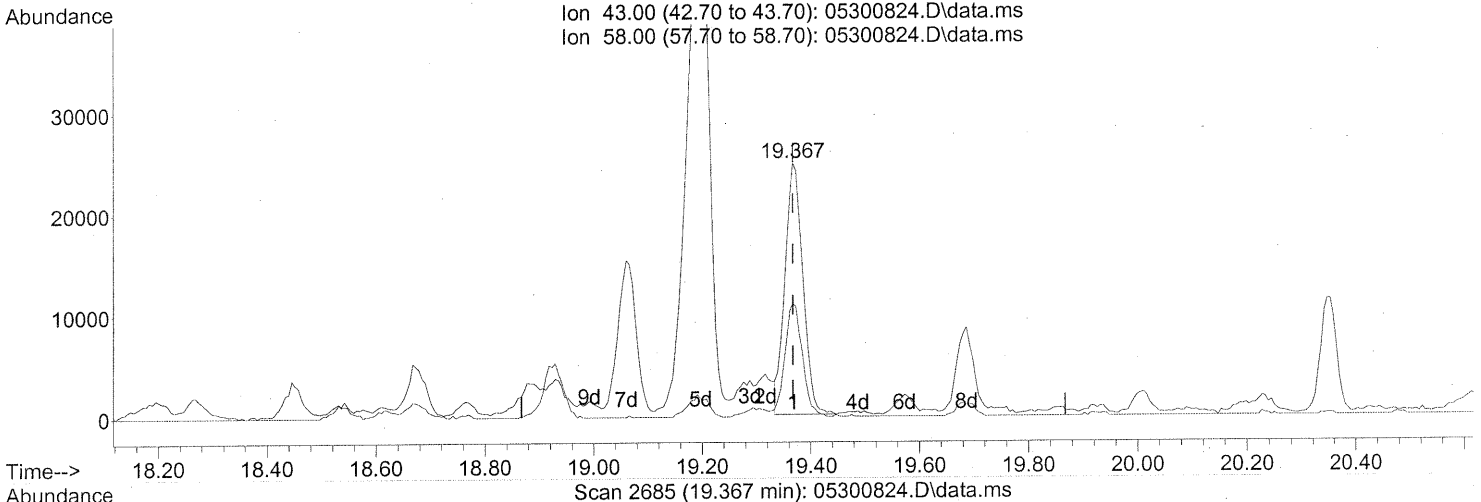
19.060min (-0.000) 40.94ng

response 3370153

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.81
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



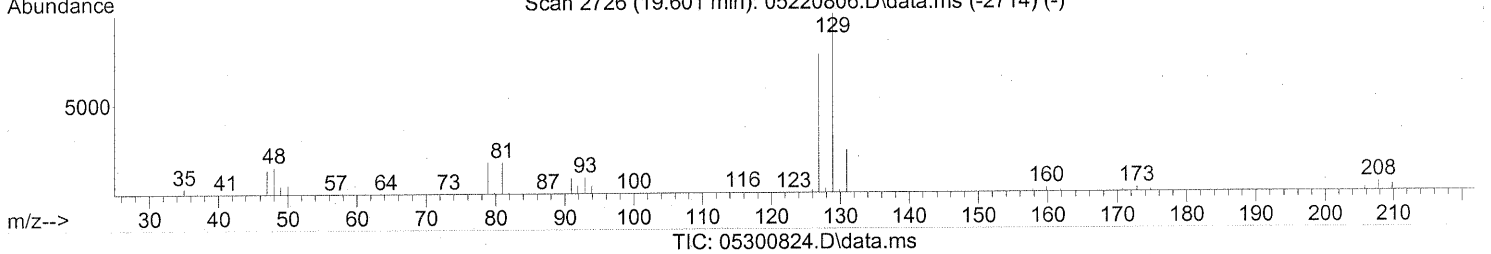
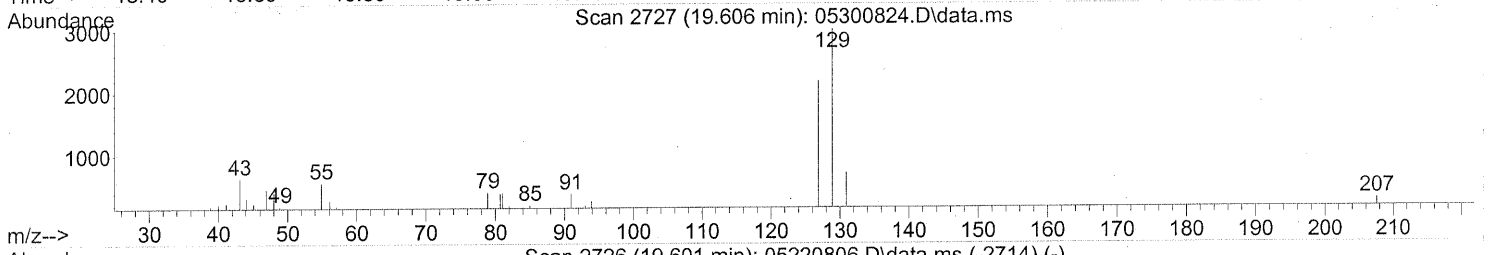
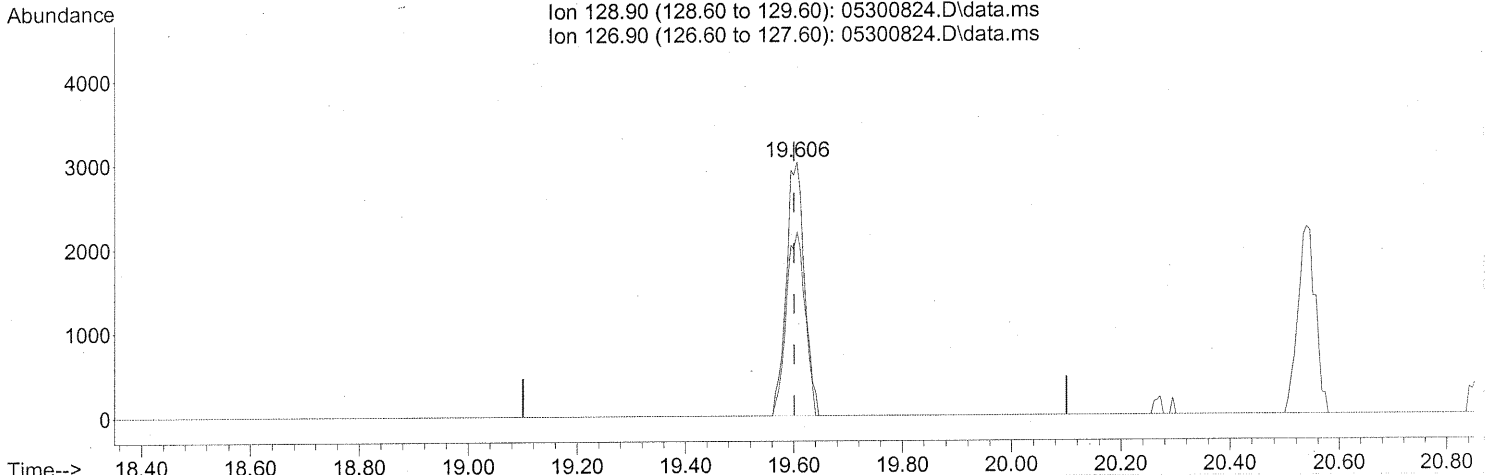
(59) 2-Hexanone (T)  
 19.367min (-0.000) 1.00ng  
 response 56865

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(60) Dibromochloromethane (T)

19.606min (+0.006) 0.32ng

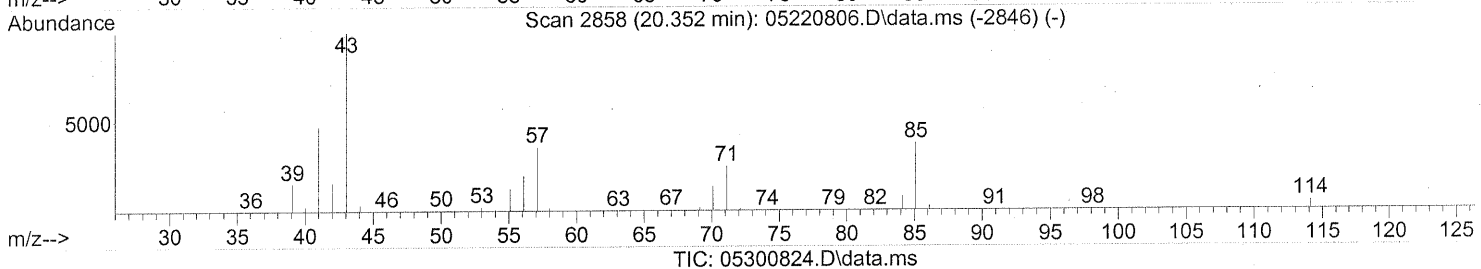
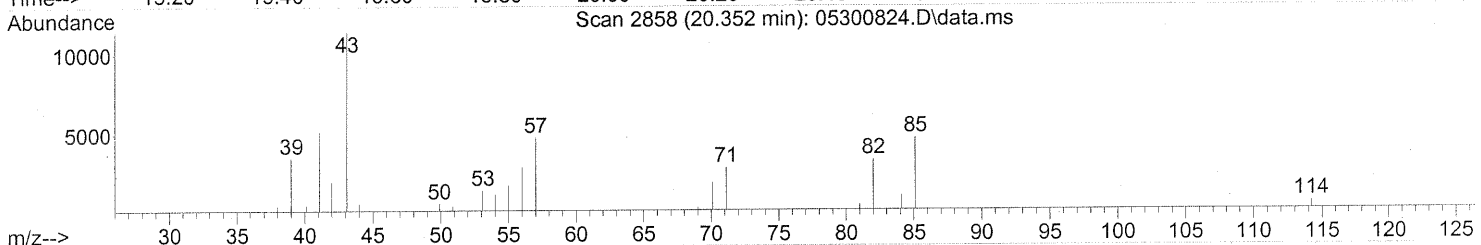
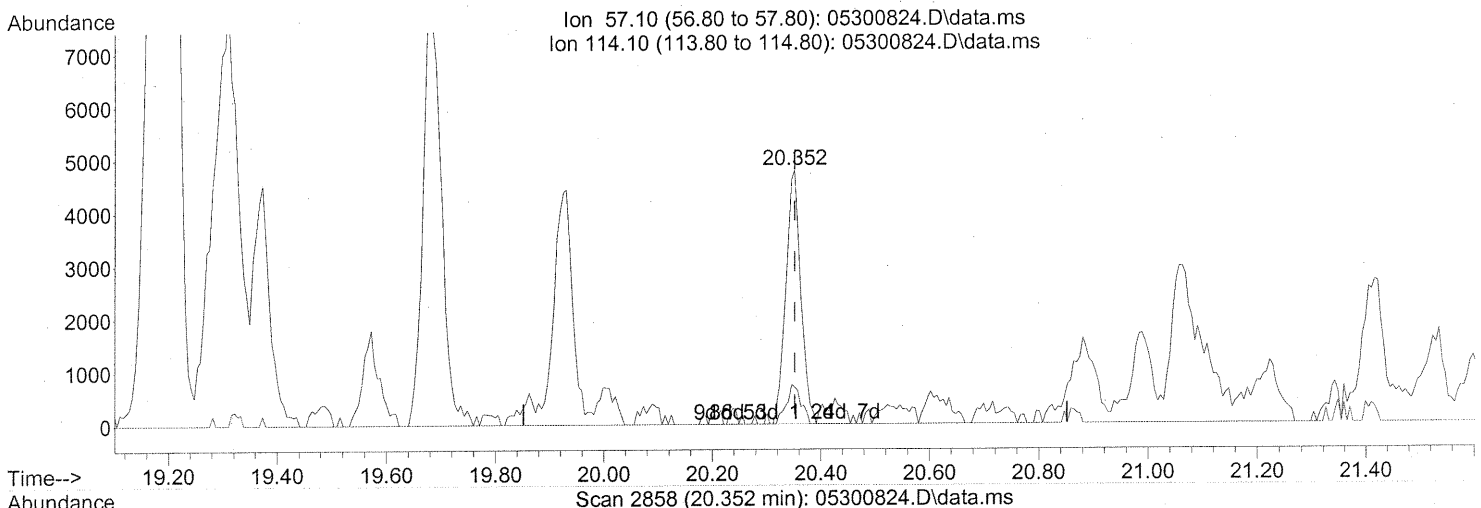
response 7011

Ion	Exp%	Act%
128.90	100	100
126.90	76.90	74.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (-0.000) 0.51ng

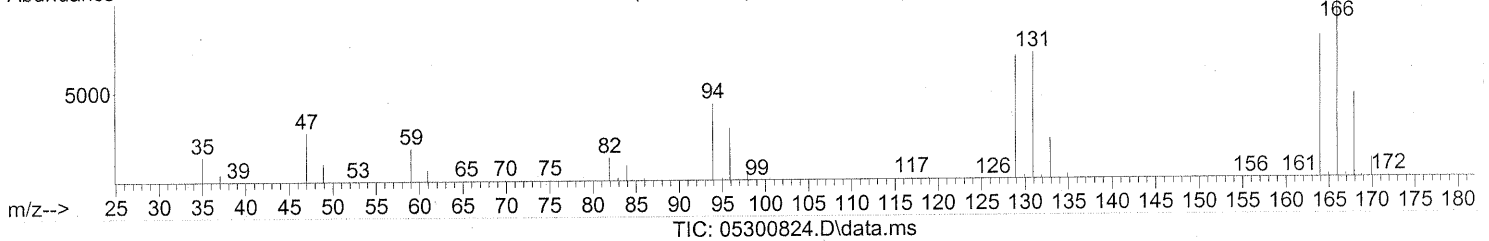
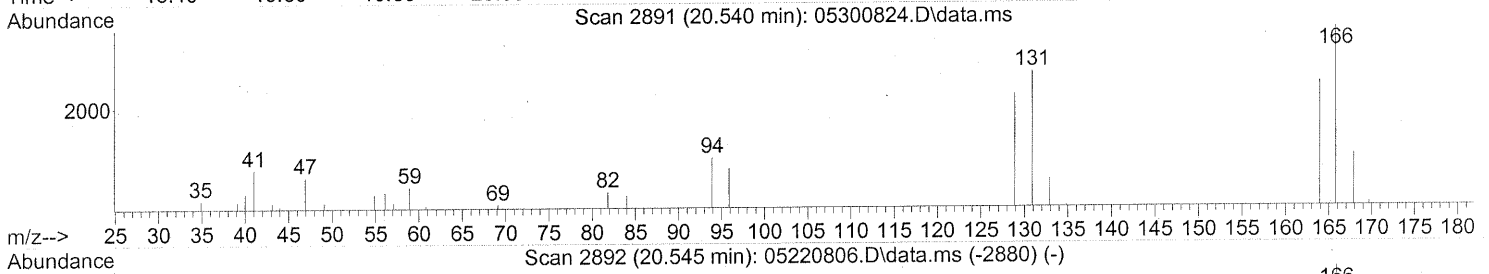
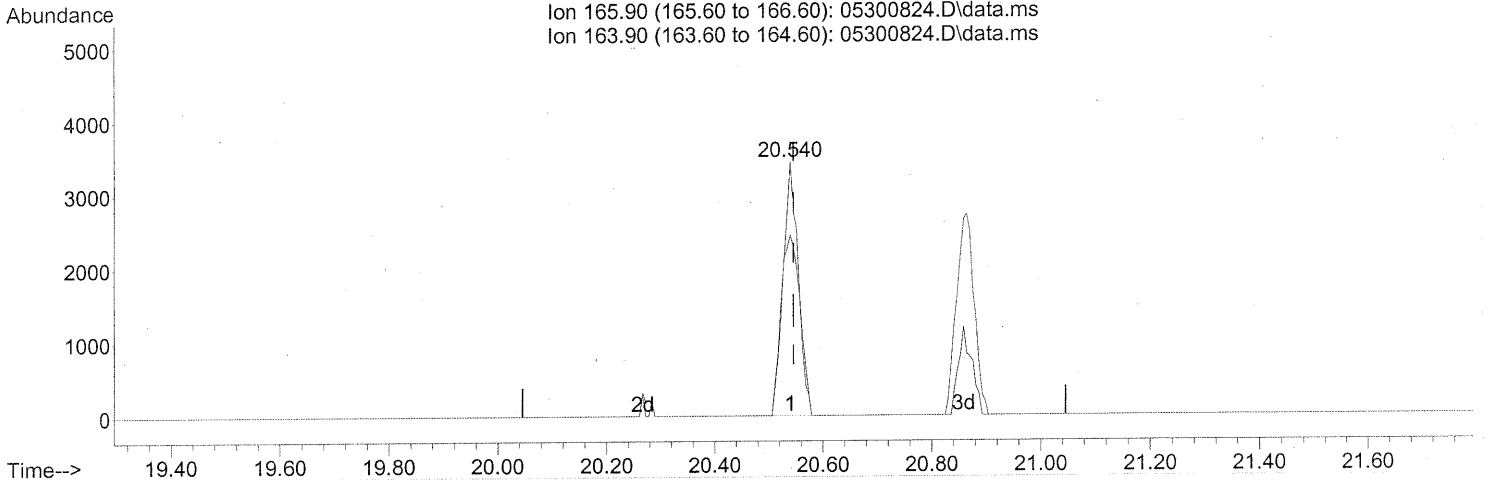
response 9224

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	15.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 0.28ng

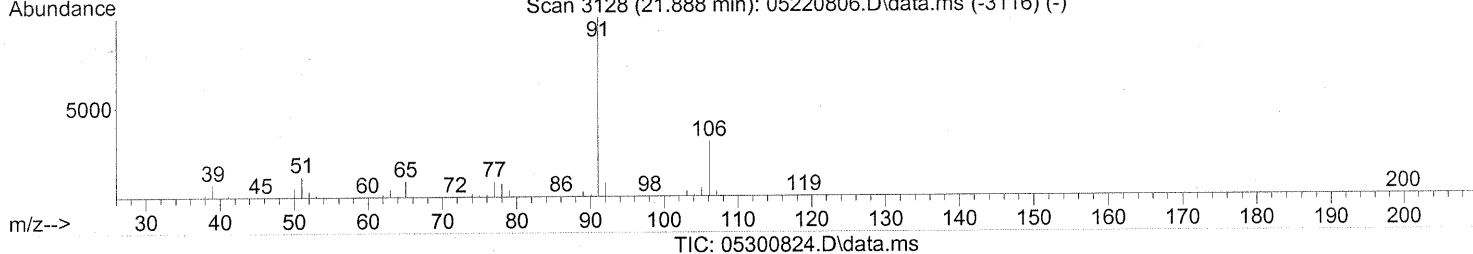
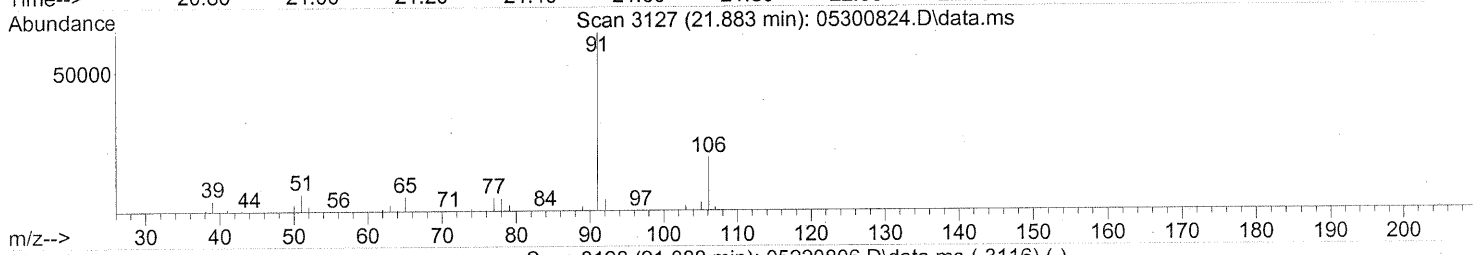
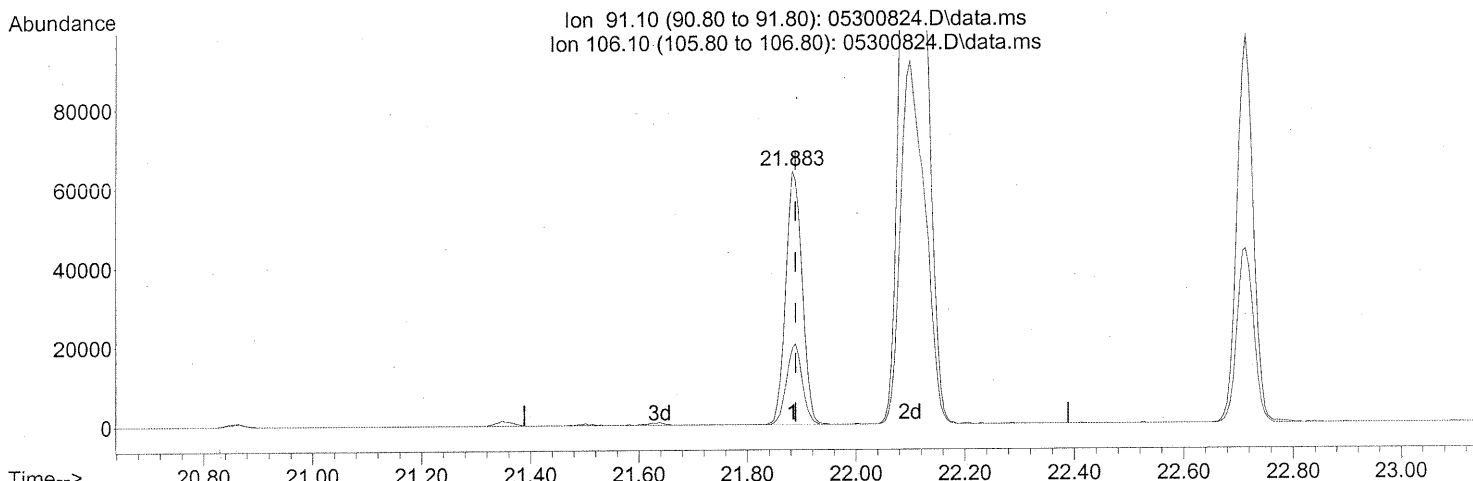
response 6843

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	83.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



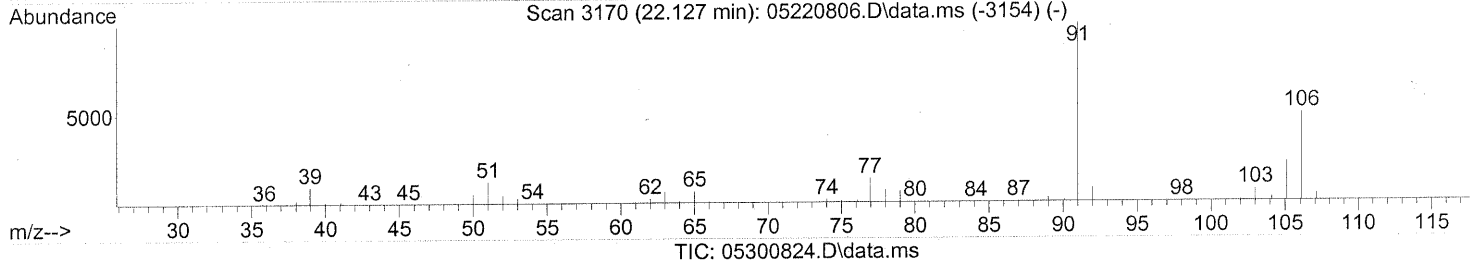
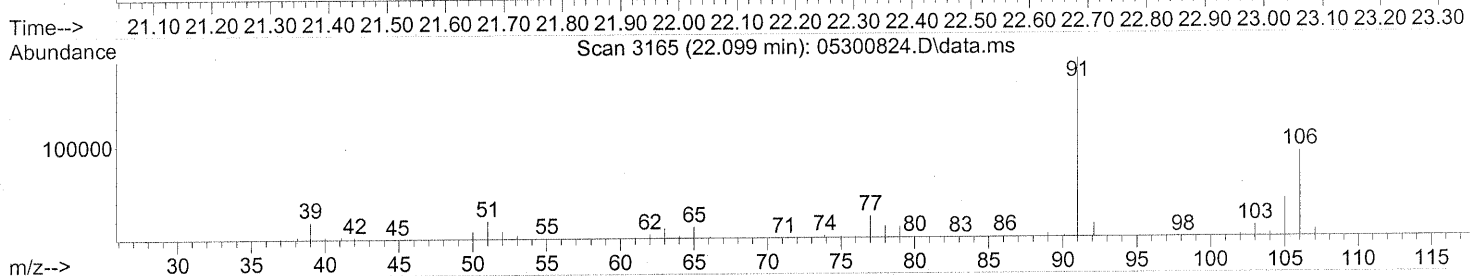
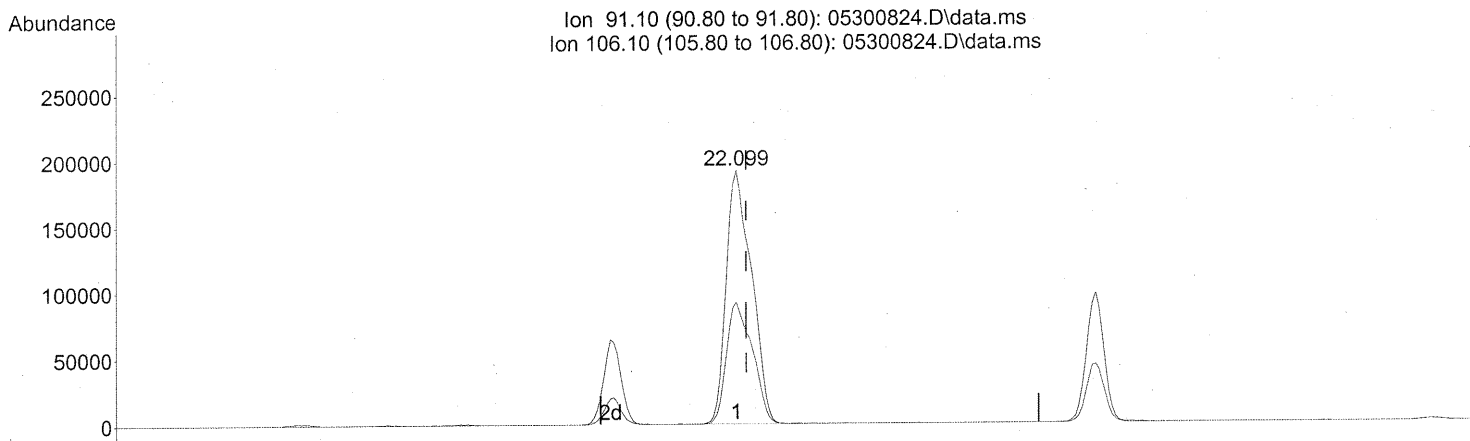
(66) Ethylbenzene (T)  
 21.883min (-0.006) 1.42ng  
 response 133662

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

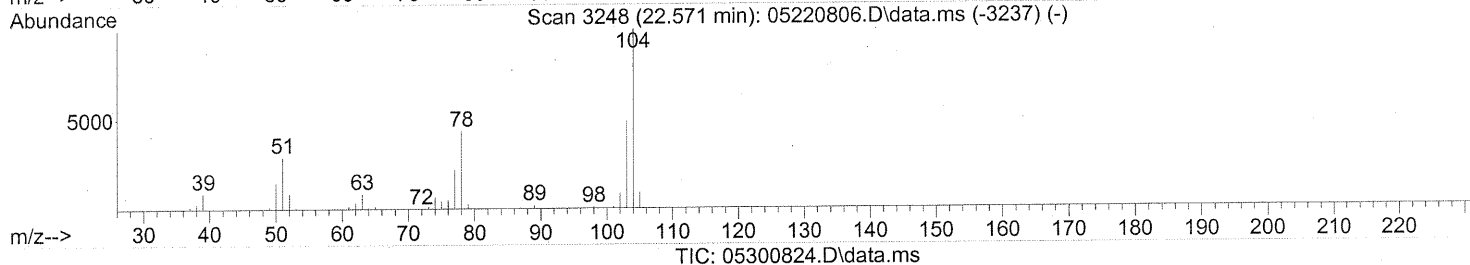
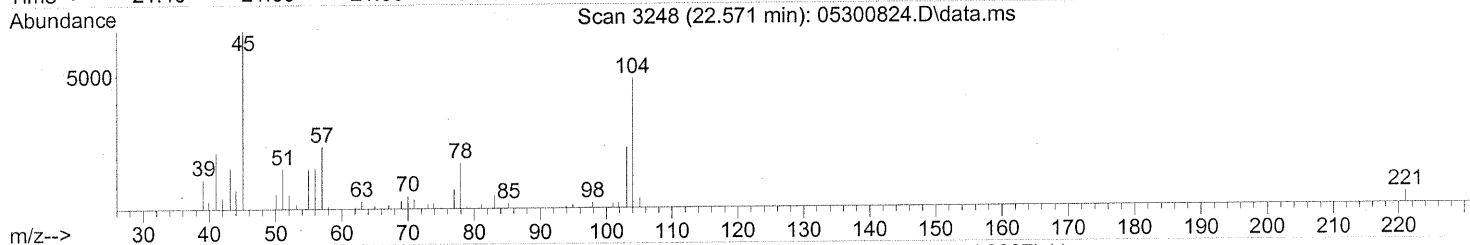
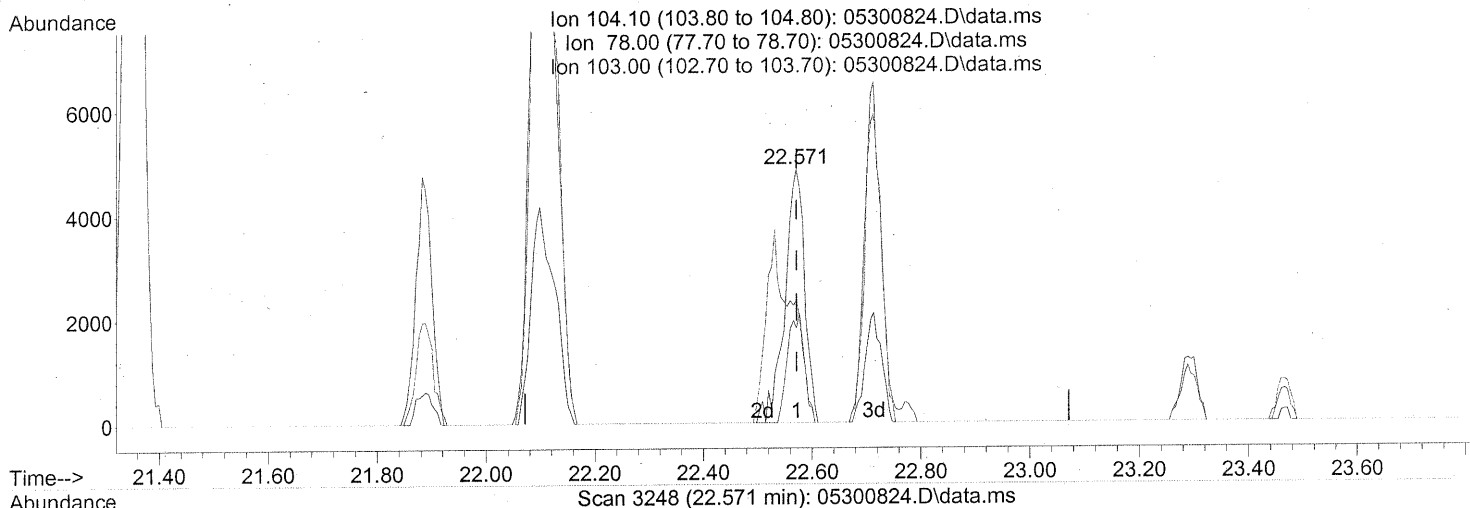
22.099min (-0.017) 9.19ng

response 580534

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.87
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)  
 22.571min (-0.000) 0.21ng  
 response 12043

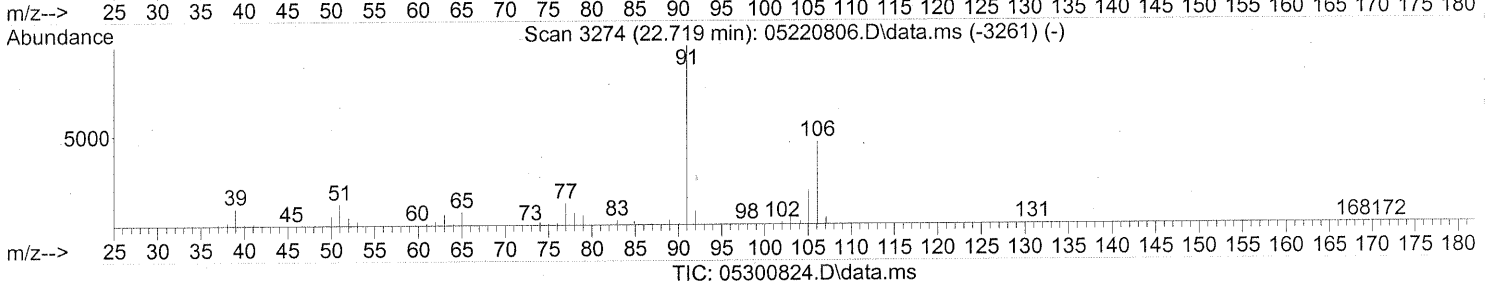
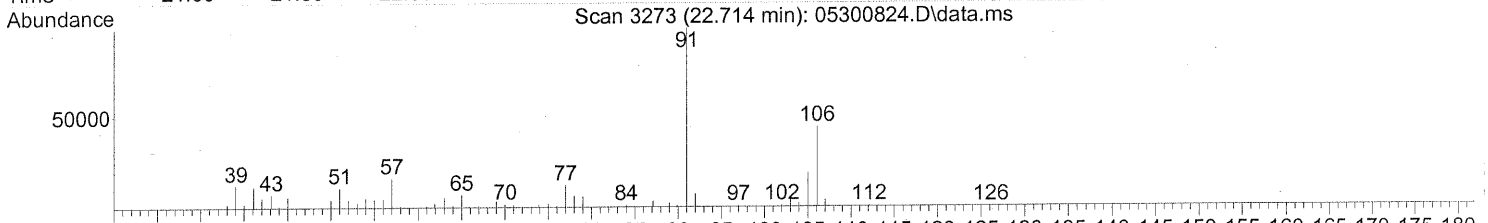
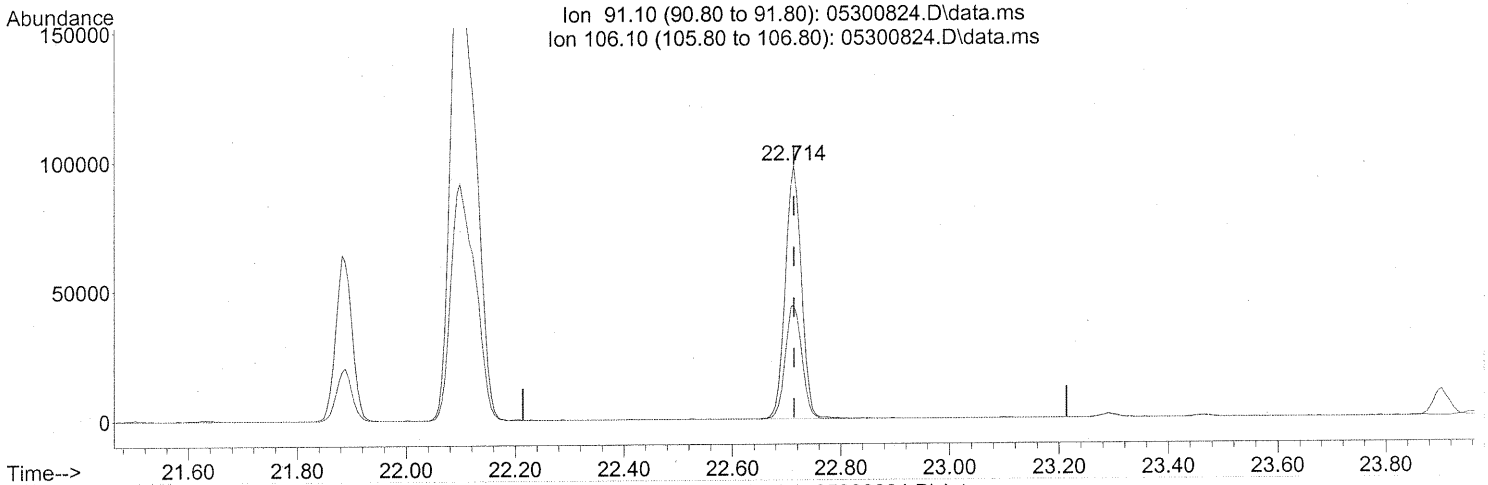
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	36.78
103.00	47.10	0.00#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 2.97ng

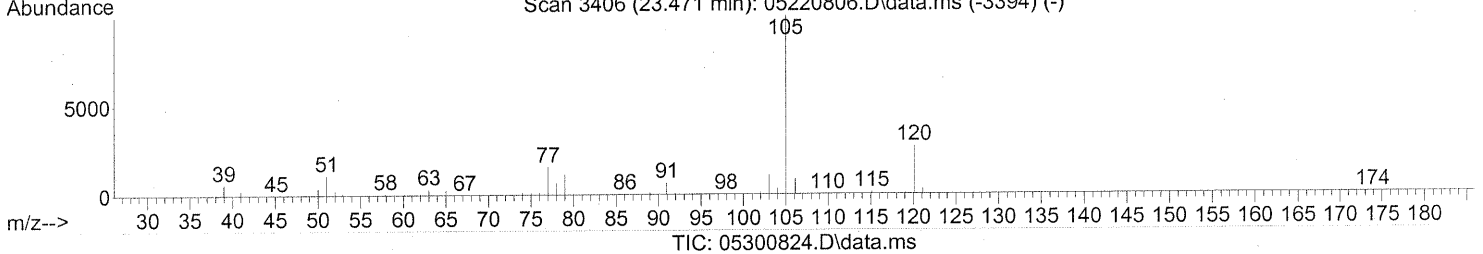
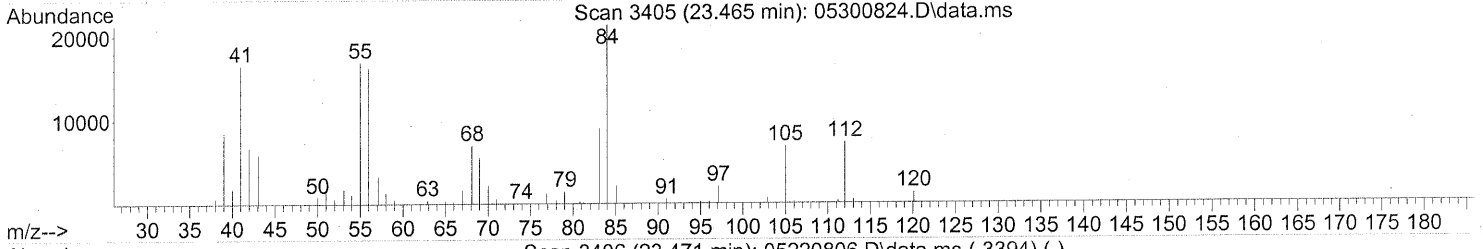
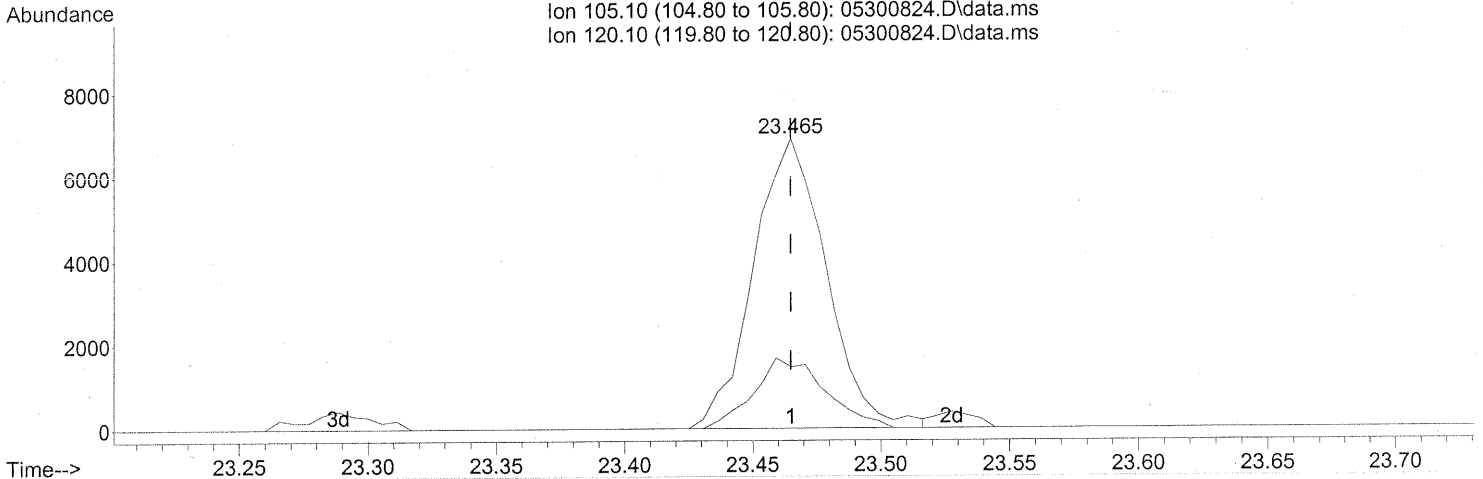
response 202496

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.15ng

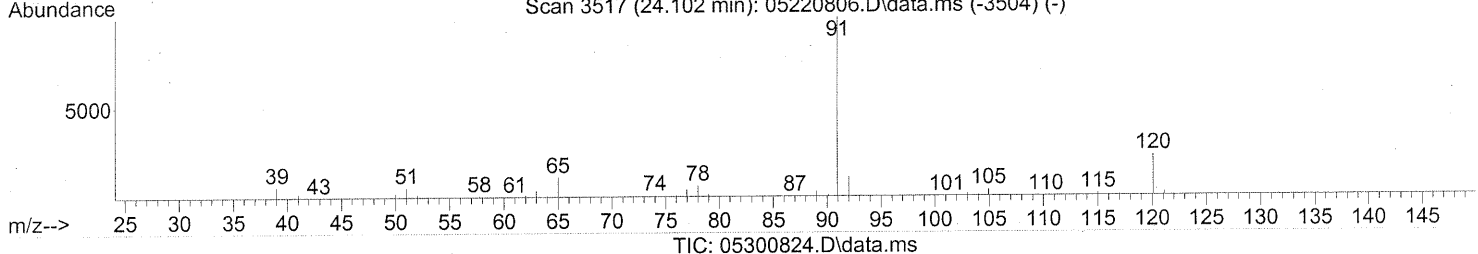
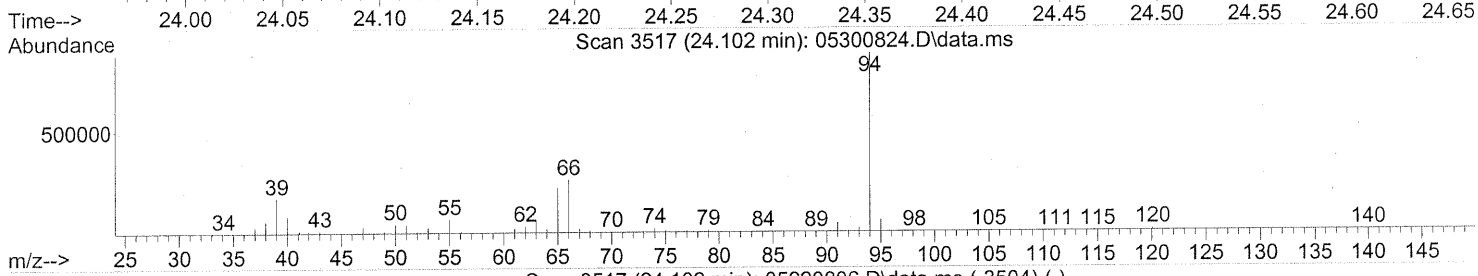
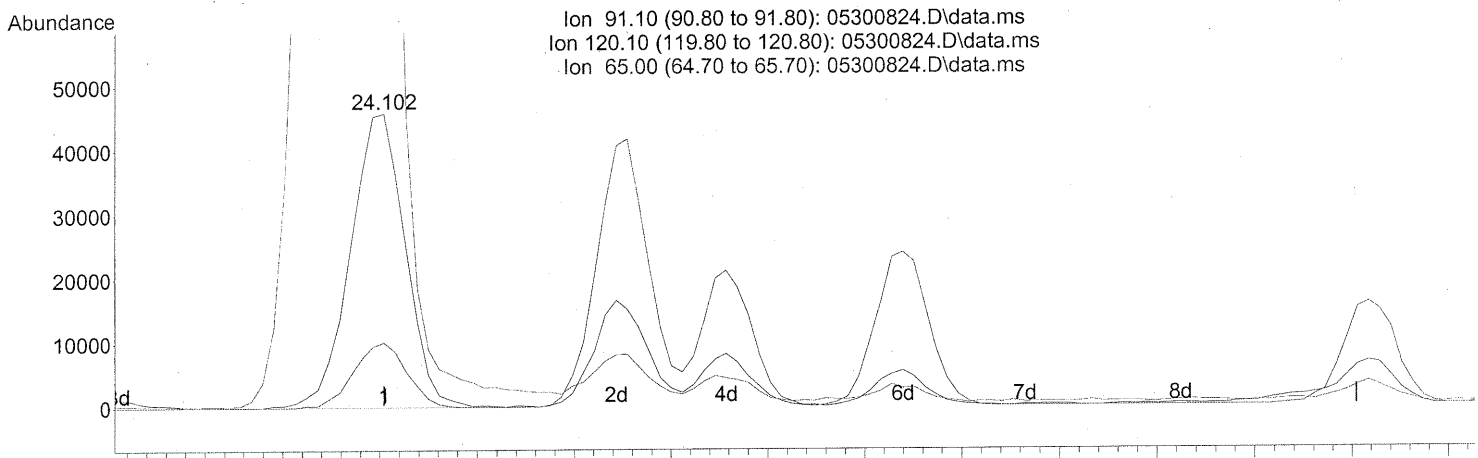
response 13597

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	23.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (-0.000) 0.78ng

response 89757

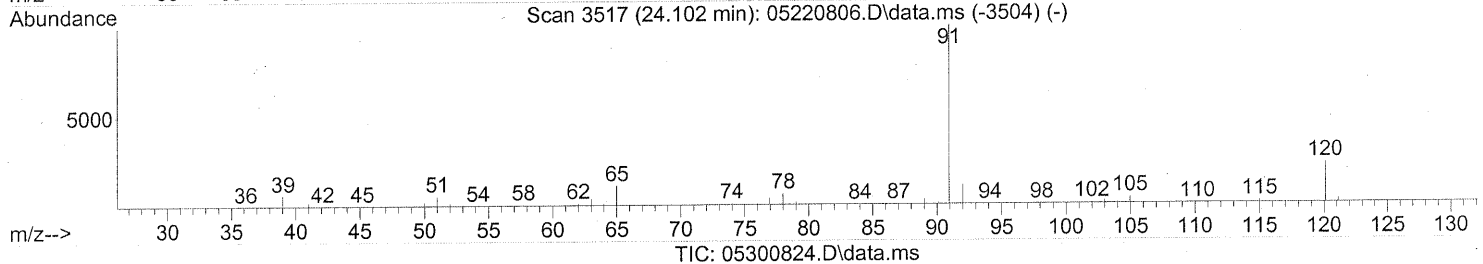
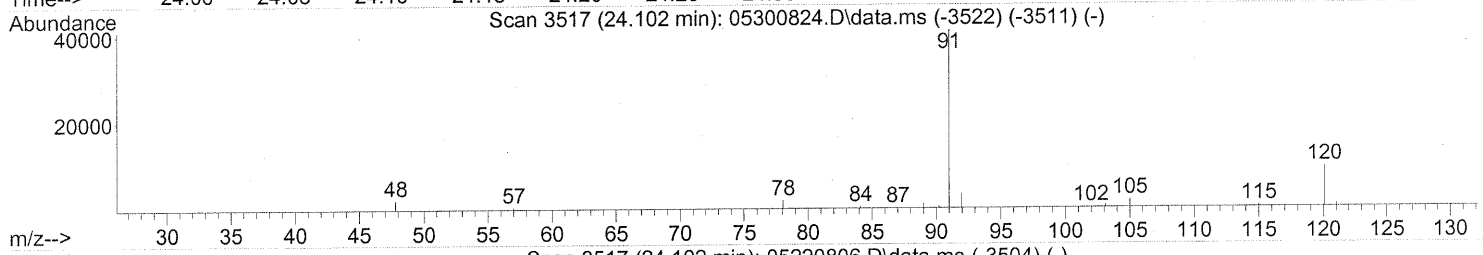
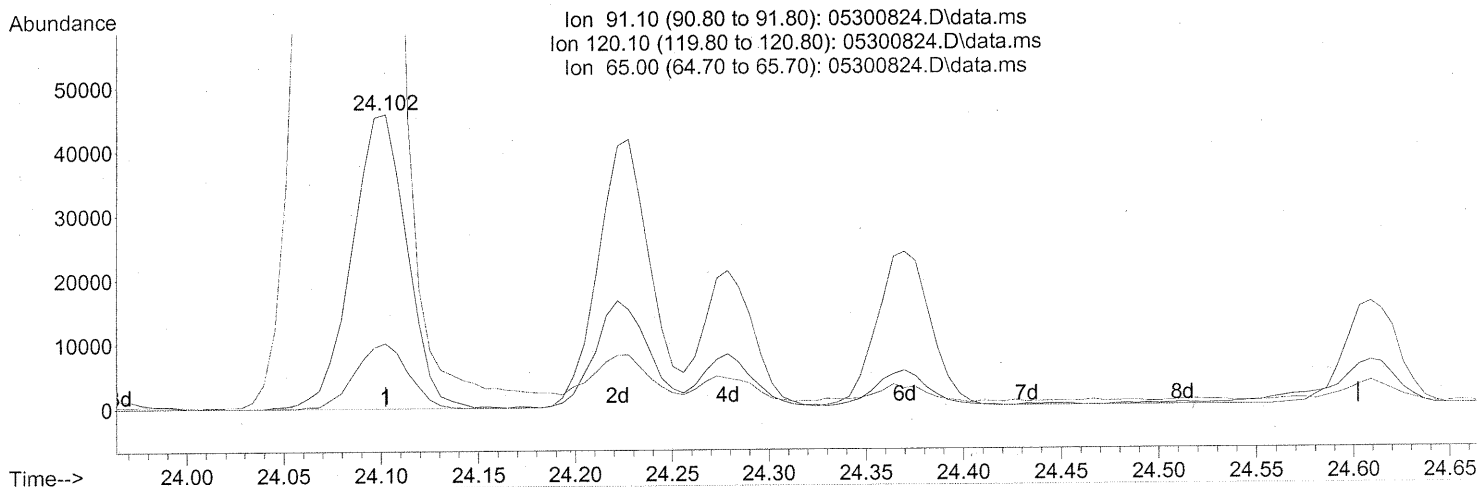
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.35
65.00	11.40	1230.25#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.78ng  
 response 89757

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	21.35
65.00	11.40	1230.25#
0.00	0.00	0.00

AFTER SUBTRACTION

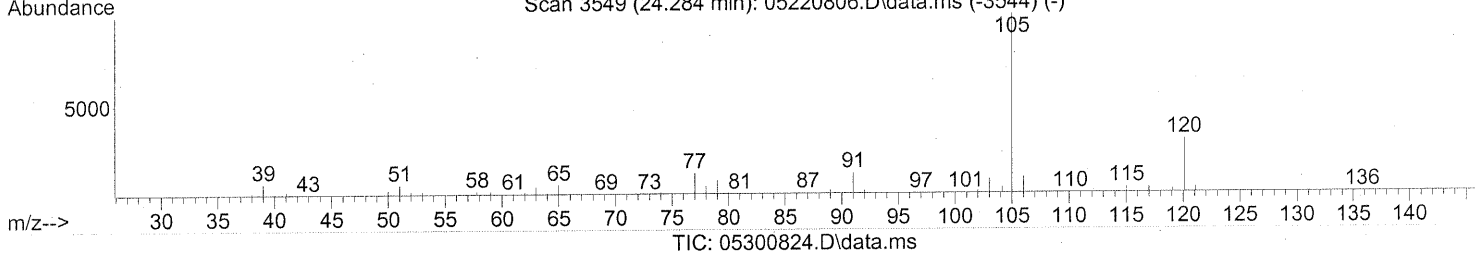
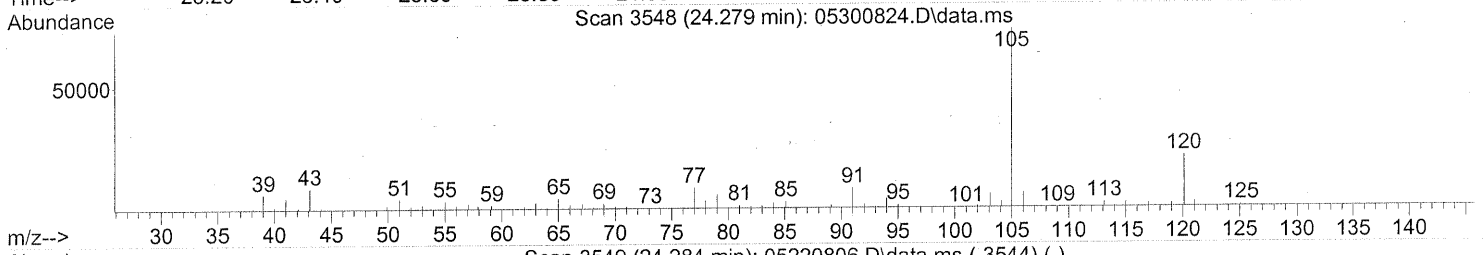
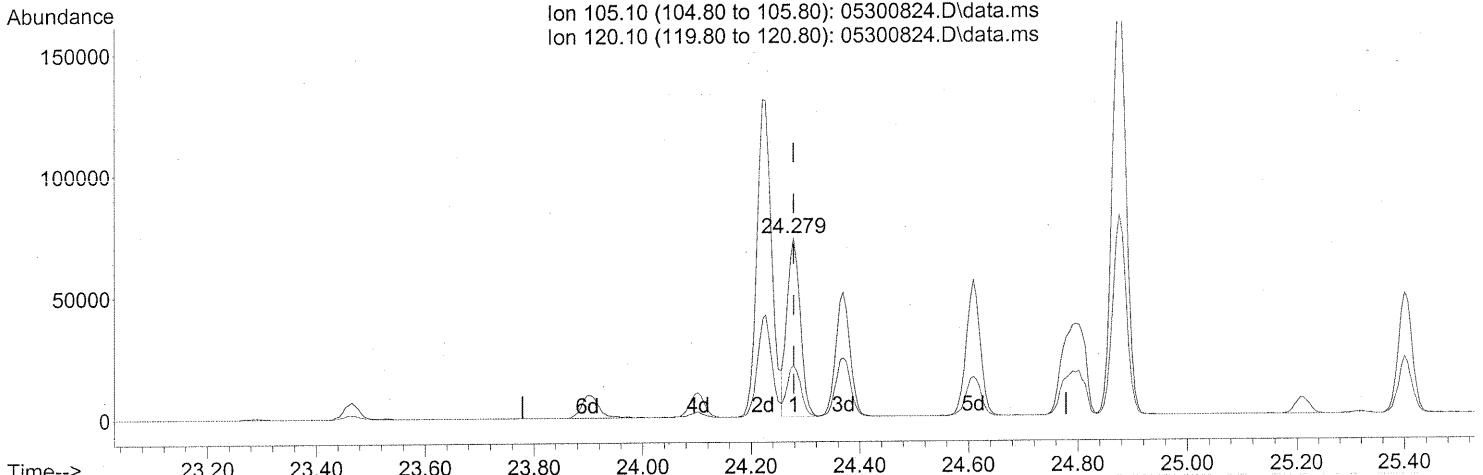
4/06/05/04

6/9/08

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

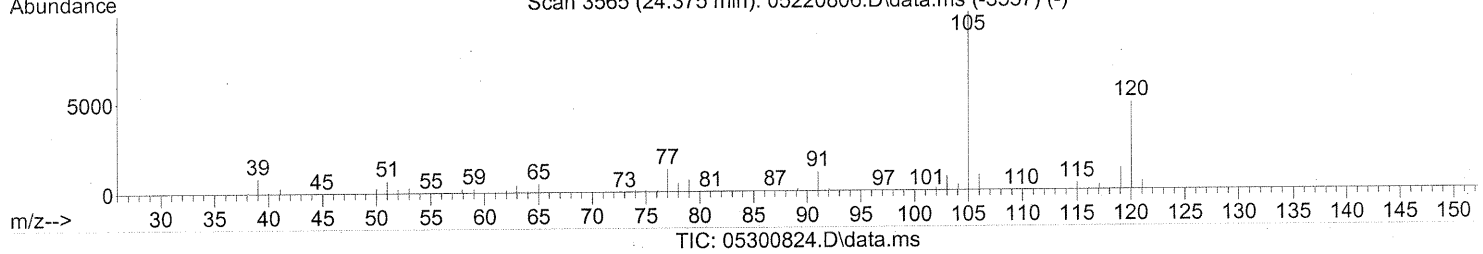
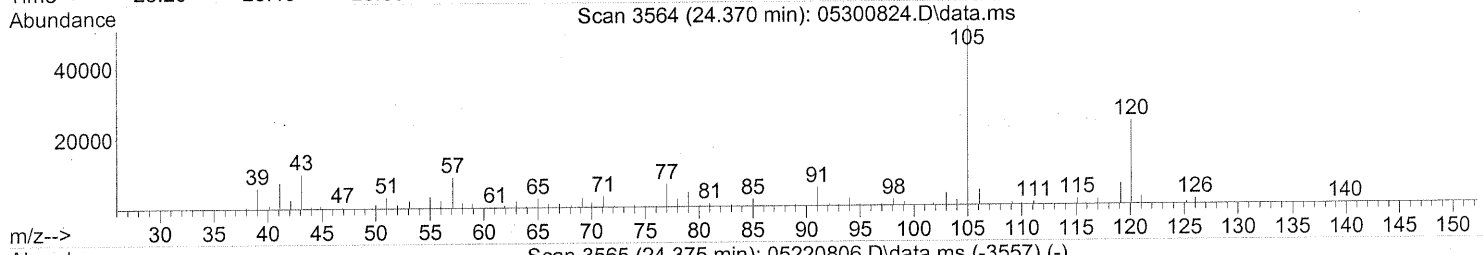
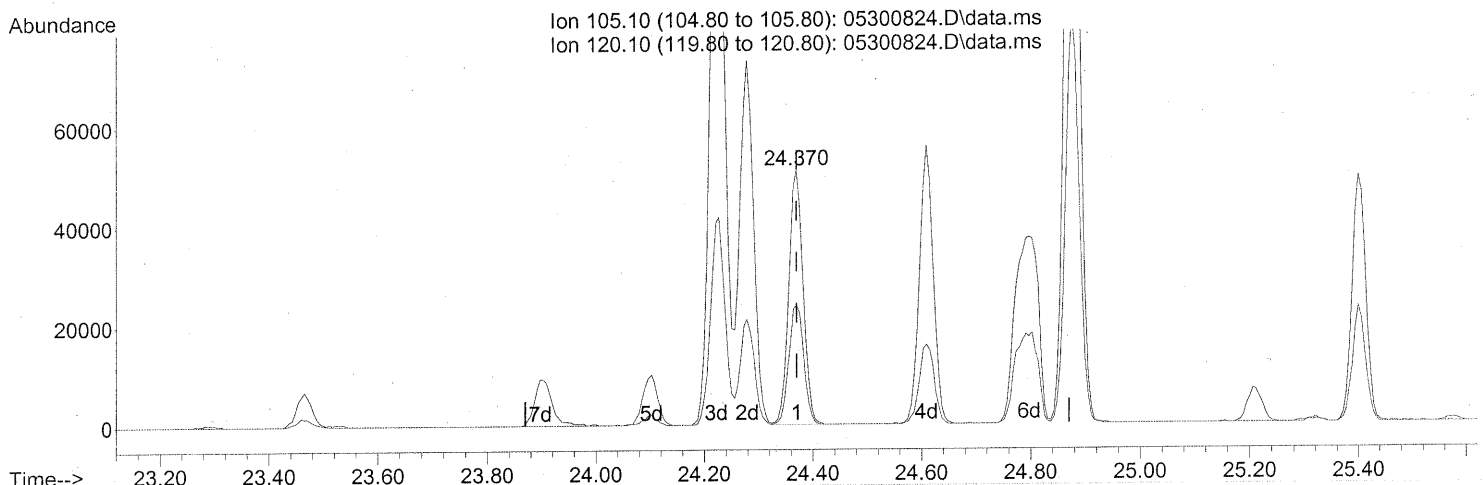


(78) 4-Ethyltoluene (T)  
 24.279min (-0.000) 1.38ng  
 response 124216

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 1.15ng

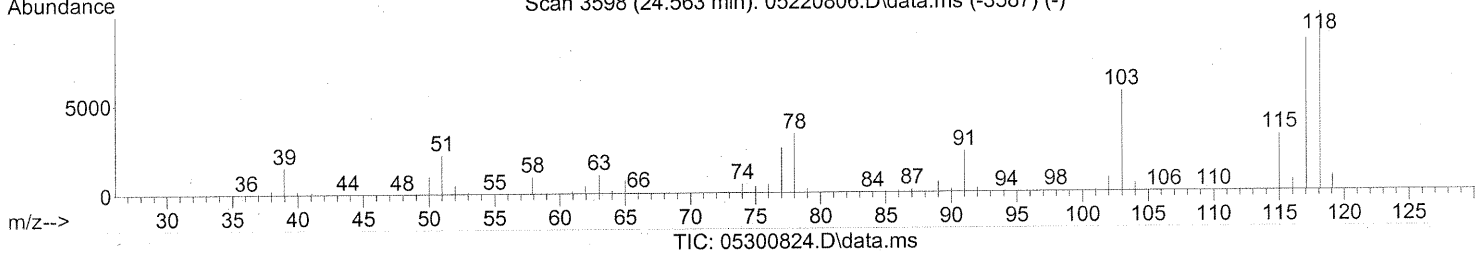
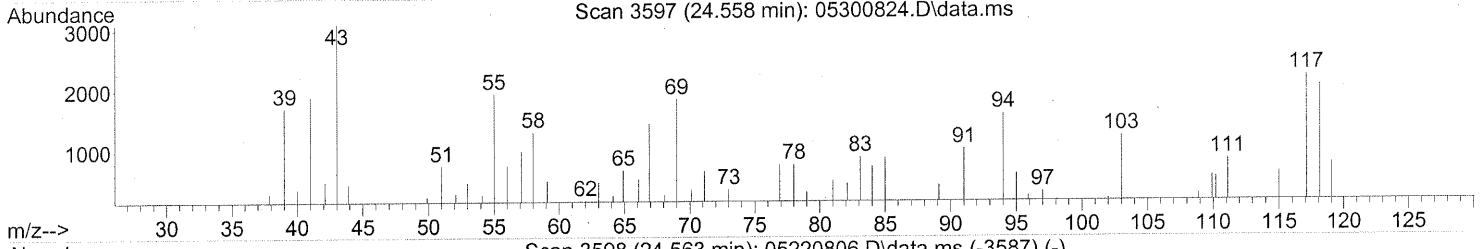
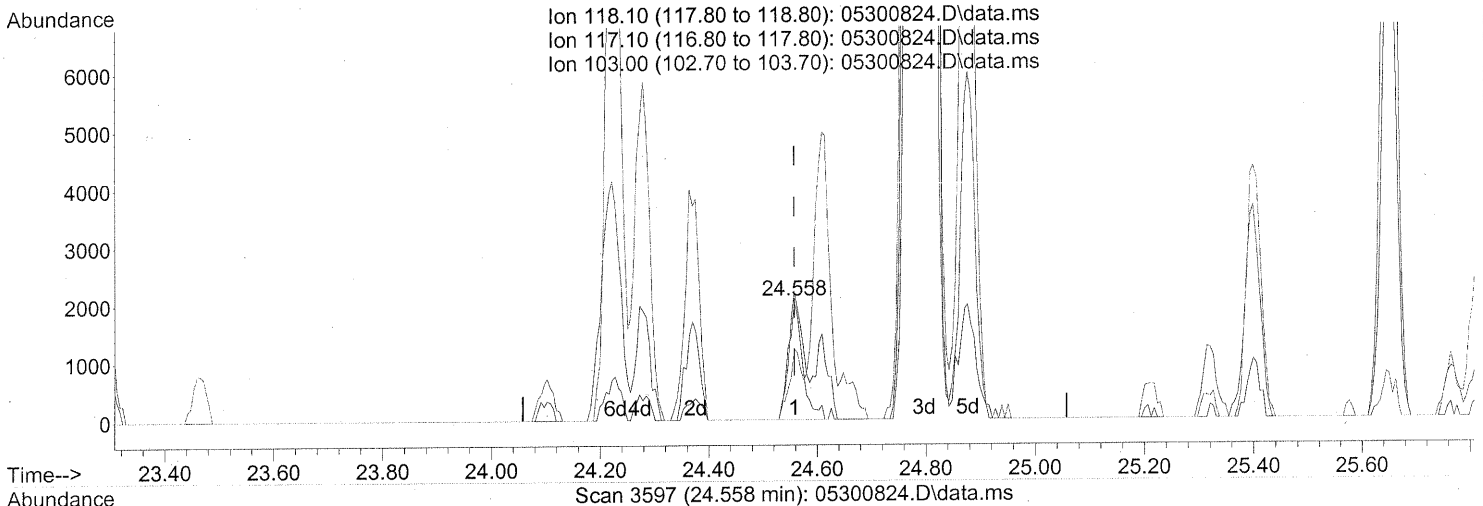
response 93295

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

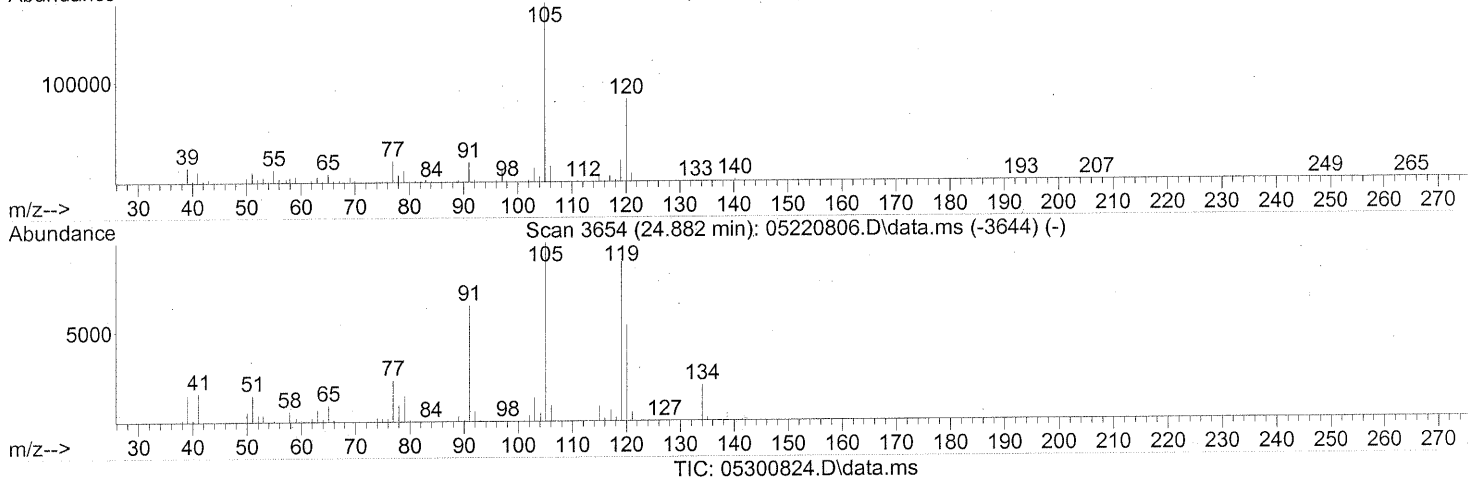
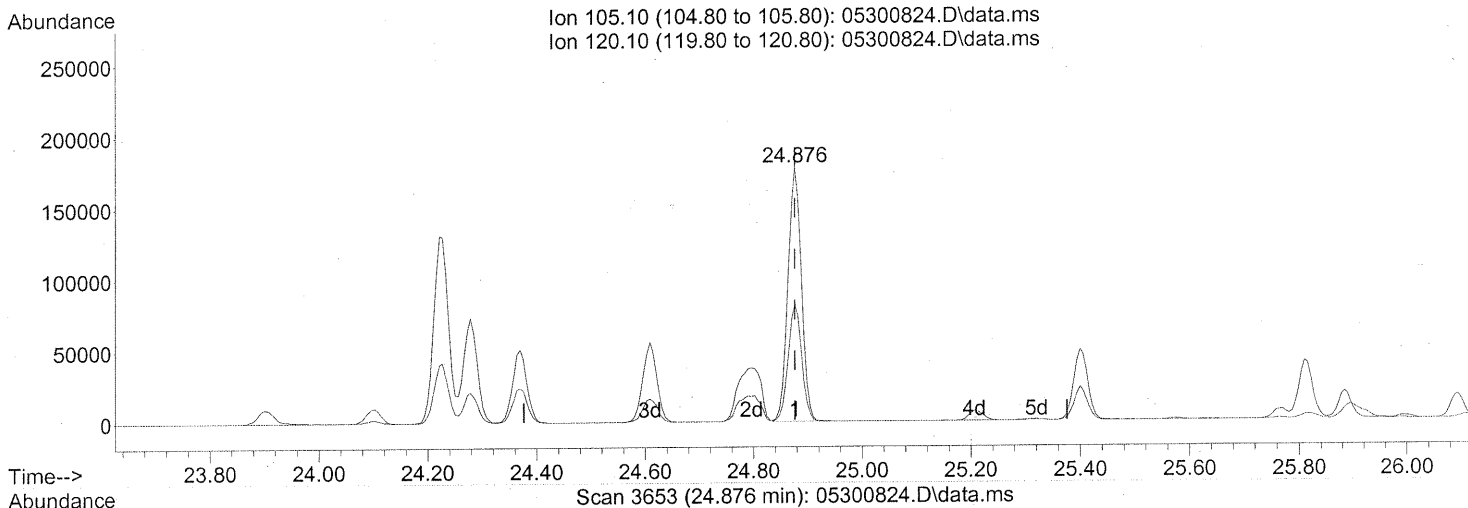
24.558min (-0.000) 0.08ng

response 3743

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	108.15#
103.00	55.30	52.95
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 3.73ng

response 308833

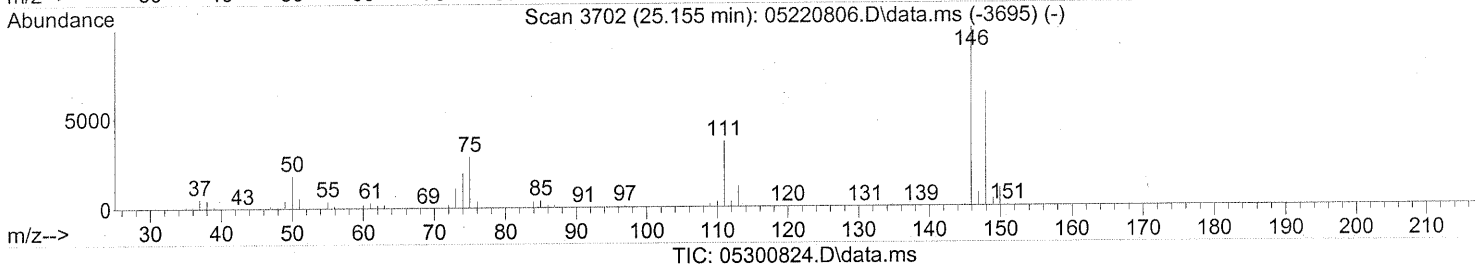
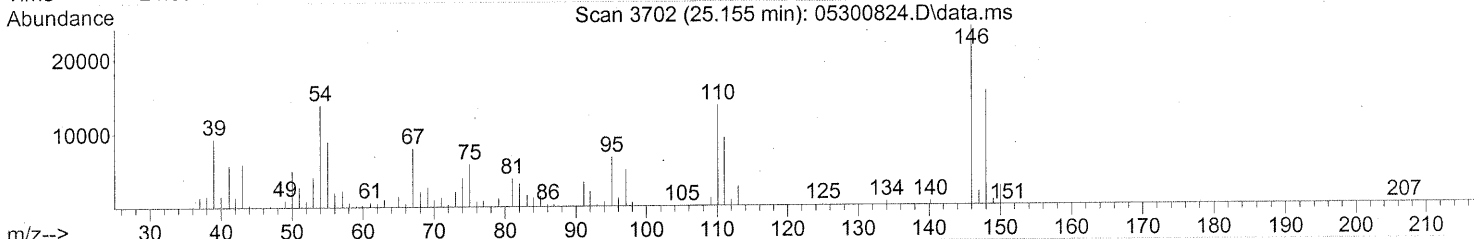
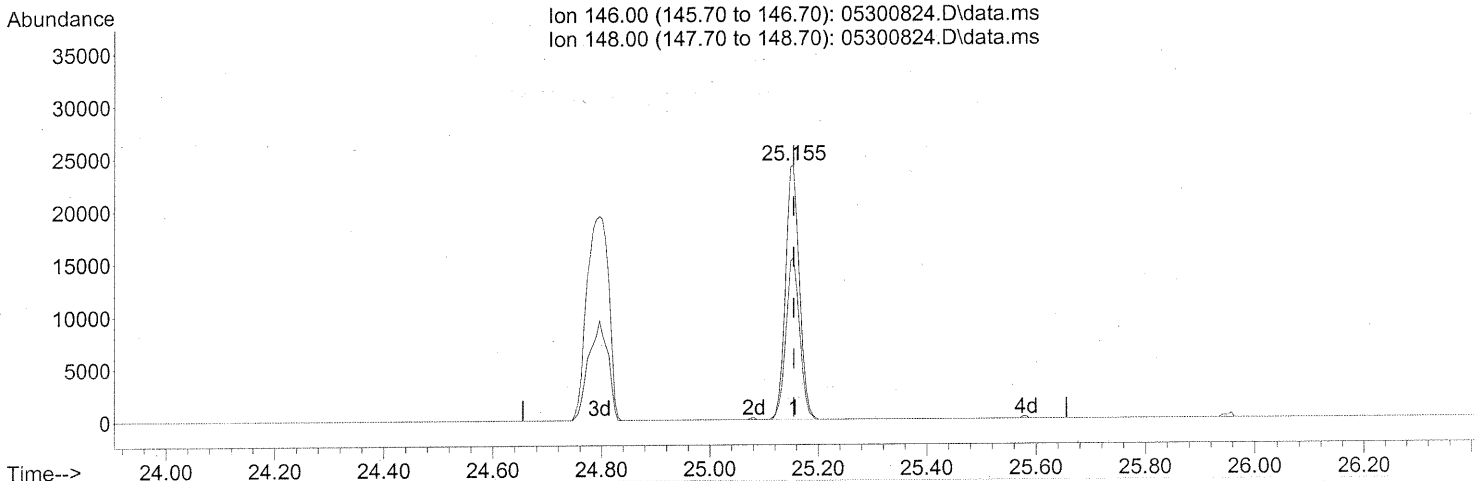
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.45
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.87ng

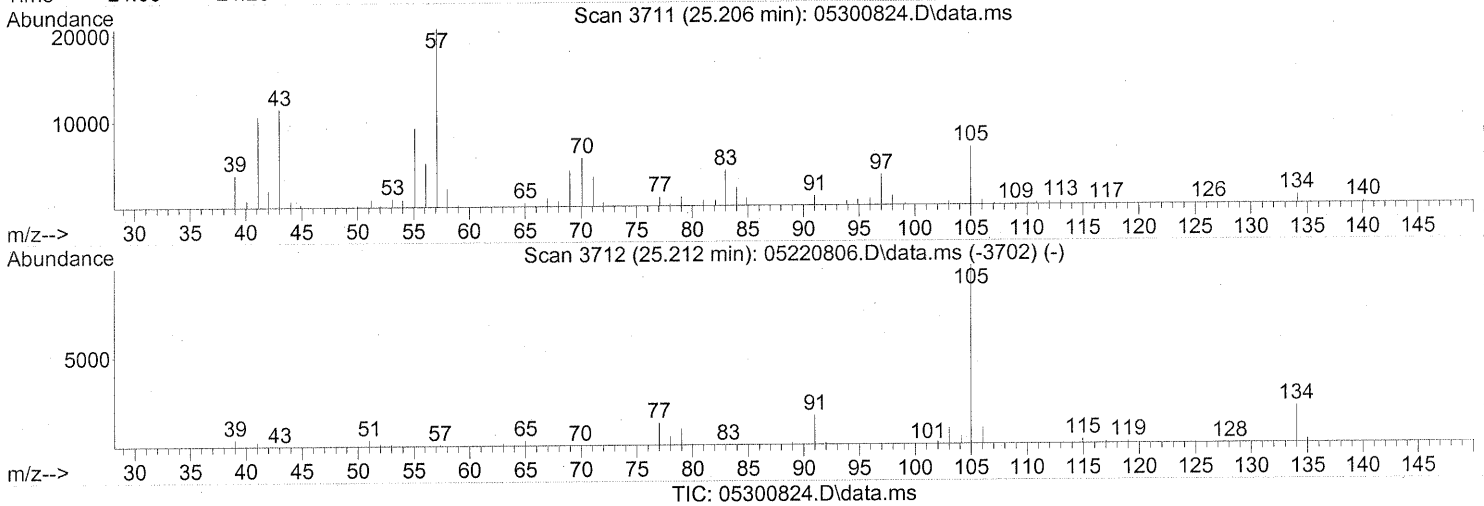
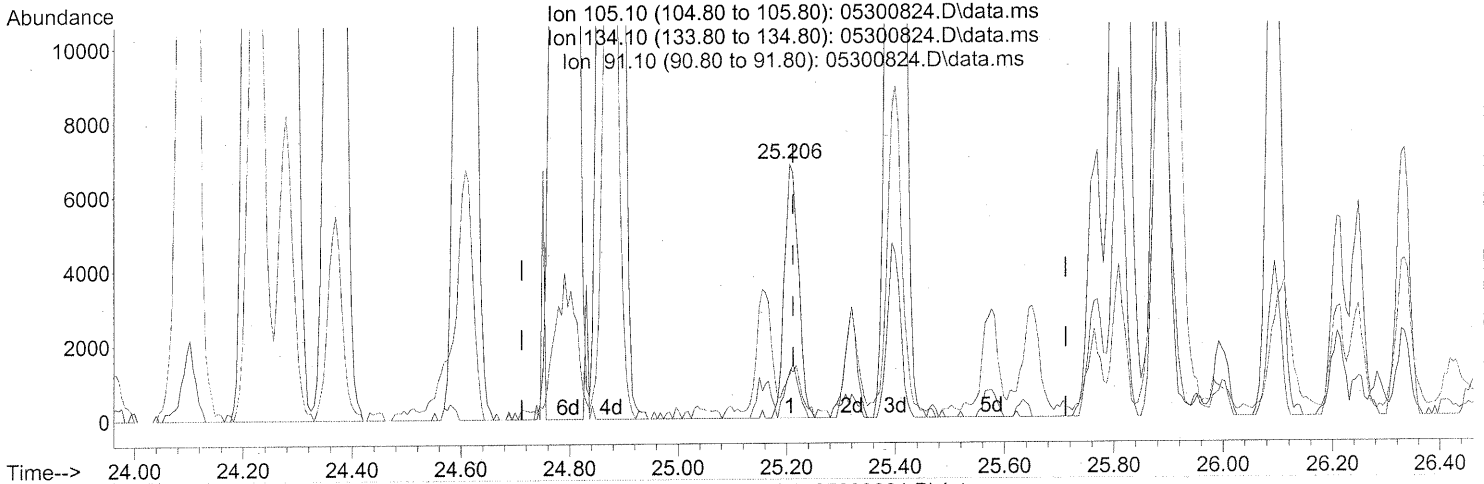
response 43457

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.12ng

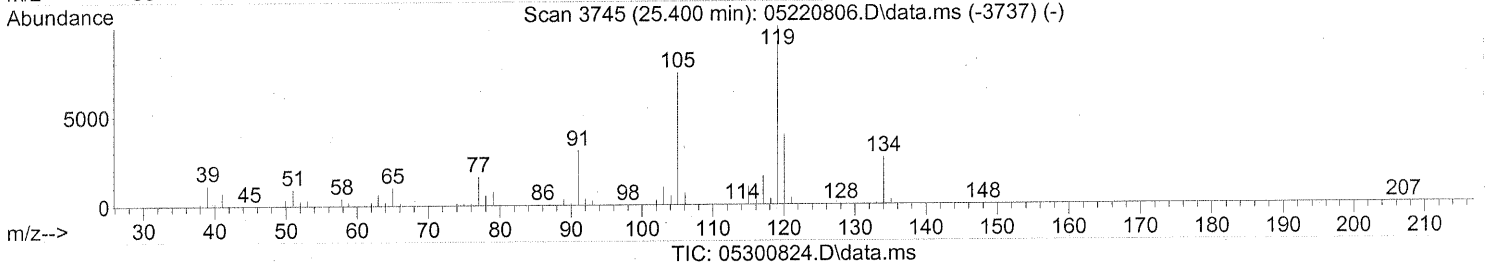
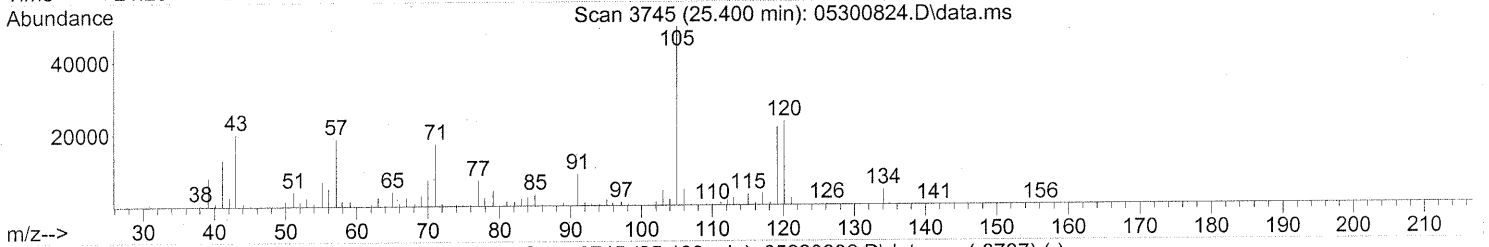
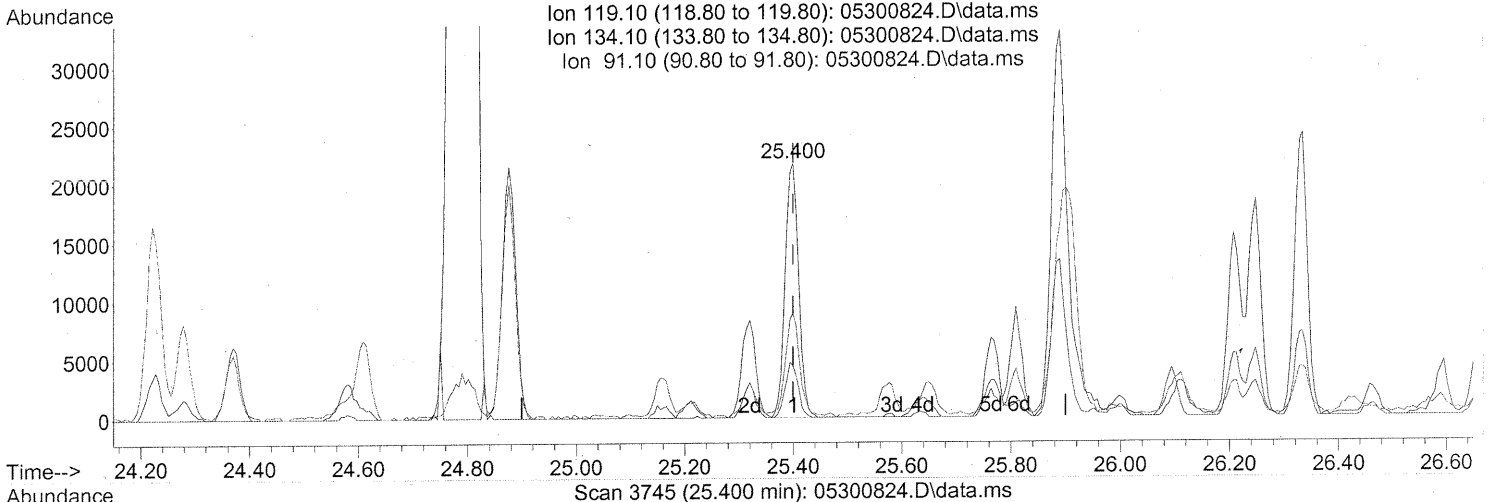
response 12332

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	19.70
91.10	14.60	22.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.43ng

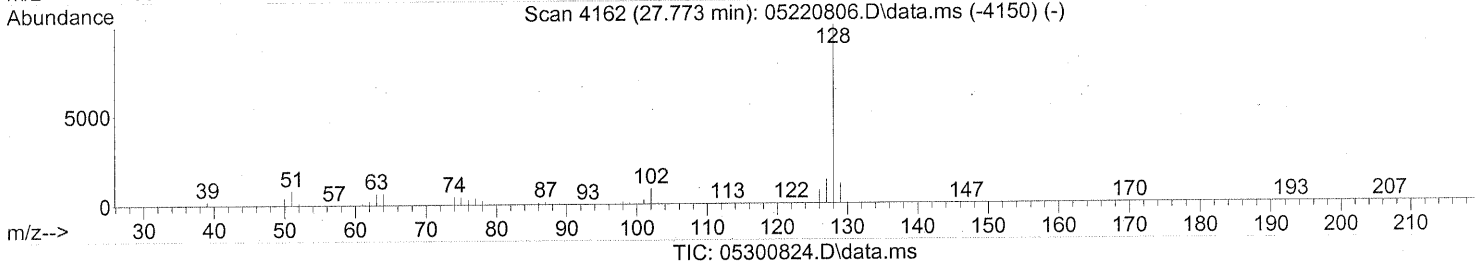
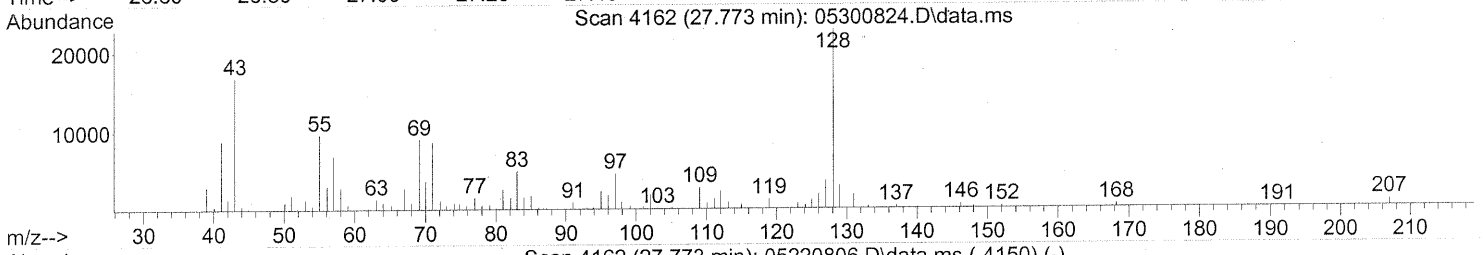
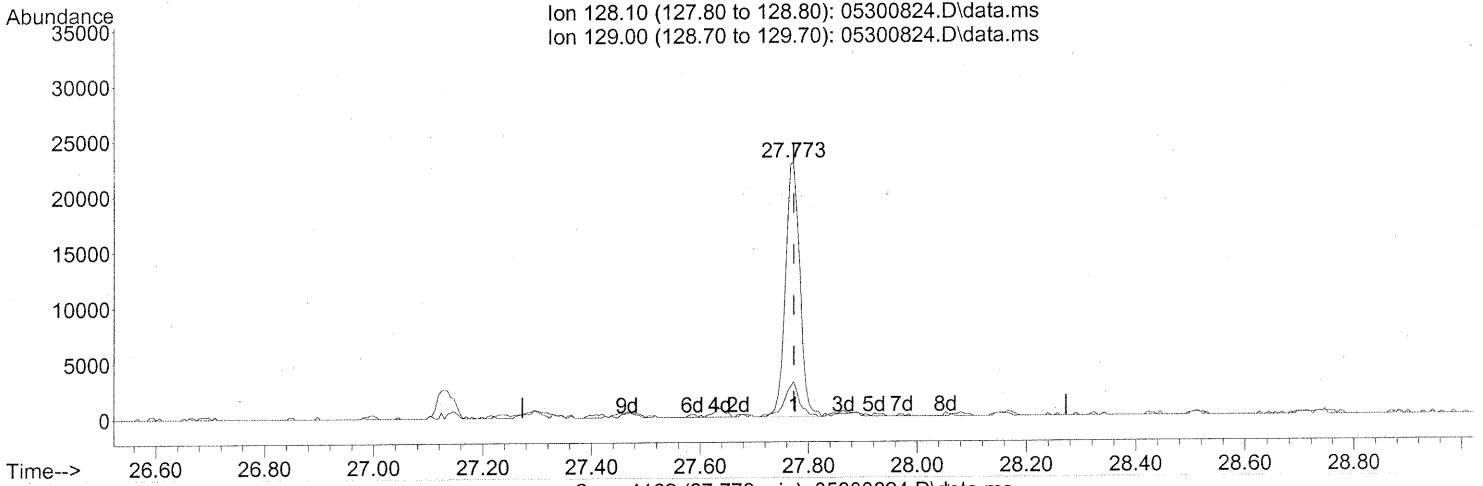
response 37875

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	20.58
91.10	27.10	41.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300824.D  
Acq On : 31 May 2008 3:22 am  
Operator : WA  
Sample : P0801548-008 (500ml)  
Misc : ENSR SG42B-05 (-5.3,3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 05 16:33:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



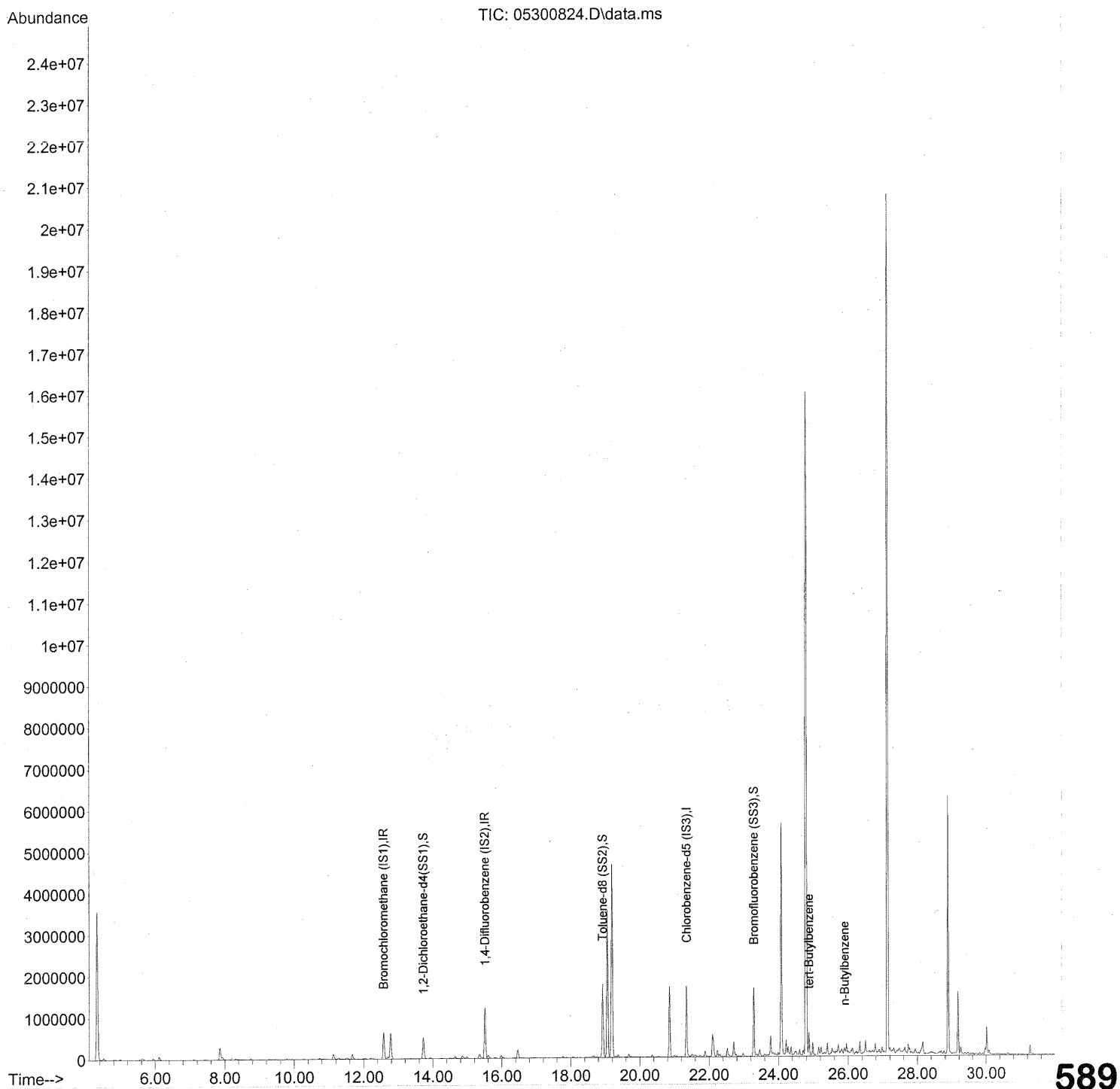
(95) Naphthalene (T)  
27.773min (-0.000) 0.39ng

response 42322

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.85
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:22:50 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:22:50 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	347882	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1464807	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	674312	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	533126	22.117	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.48%	✓
5) Toluene-d8 (SS2)	18.93	98	1515219	25.020	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.08%	✓
6) Bromofluorobenzene (SS3)	23.29	174	637967	25.906	ng	0.00
Spiked Amount	25.000		Recovery	=	103.64%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	37696	<del>0.476</del>	ng	# 55
8) n-Butylbenzene	25.90	91	54323	0.620	ng	# 59

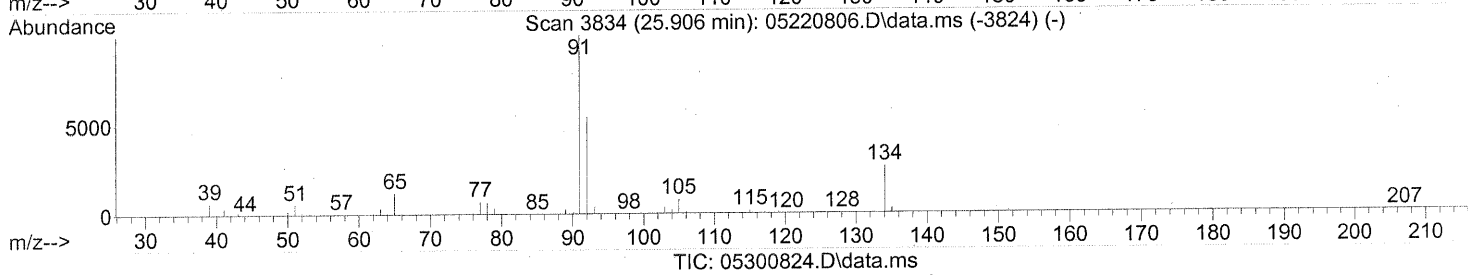
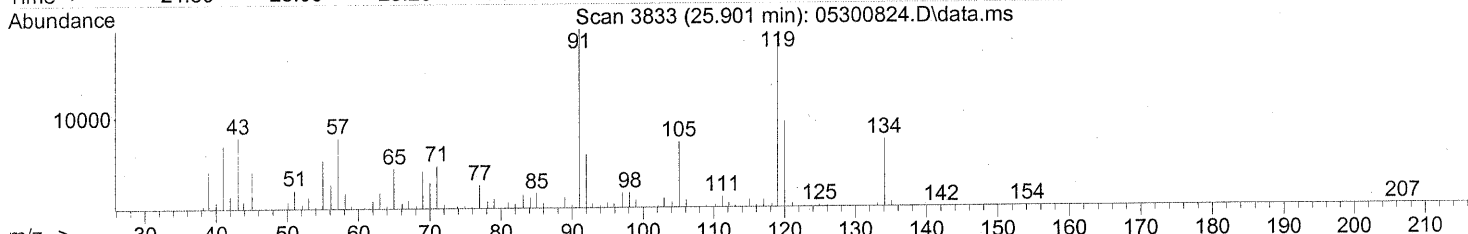
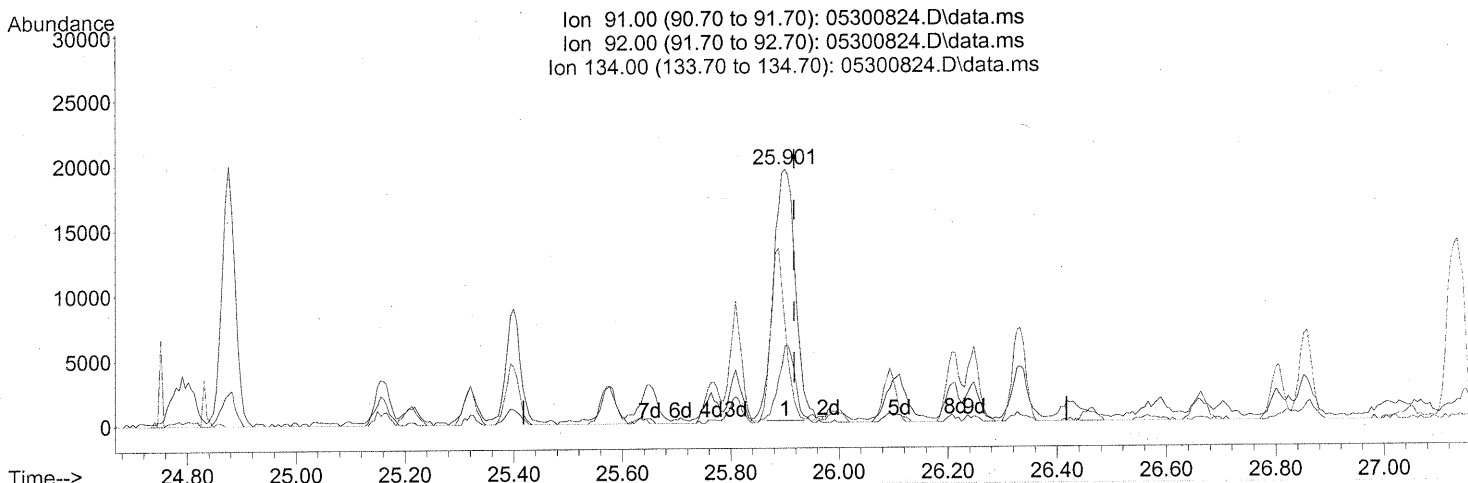
(#) = qualifier out of range (m) = manual integration (+) = signals summed

206/08/08

Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300824.D  
 Acq On : 31 May 2008 3:22 am  
 Operator : WA  
 Sample : P0801548-008 (500ml)  
 Misc : ENSR SG42B-05 (-5.3,3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:22:50 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene  
 25.901min (-0.017) 0.62ng  
 response 54323

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	24.21#
134.00	28.80	48.16#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00834

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	160	16	ND	33	3.3	
74-87-3	Chloromethane	ND	33	16	ND	16	7.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	160	16	ND	23	2.3	
75-01-4	Vinyl Chloride	ND	33	16	ND	13	6.4	
74-83-9	Bromomethane	ND	33	16	ND	8.4	4.2	
75-00-3	Chloroethane	ND	33	16	ND	12	6.2	
64-17-5	Ethanol	ND	1,600	16	ND	870	8.7	
67-64-1	<b>Acetone</b>	<b>54</b>	1,600	24	<b>23</b>	690	10	<b>J, B</b>
75-69-4	Trichlorofluoromethane	ND	33	16	ND	5.8	2.9	
107-13-1	Acrylonitrile	ND	160	23	ND	75	11	
75-35-4	1,1-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	160	24	ND	54	8.0	
75-09-2	<b>Methylene Chloride</b>	<b>32</b>	160	16	<b>9.1</b>	47	4.7	<b>J</b>
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	16	ND	10	5.2	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	160	39	ND	52	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
75-34-3	1,1-Dichloroethane	ND	33	16	ND	8.1	4.0	
1634-04-4	Methyl tert-Butyl Ether	ND	33	16	ND	9.0	4.5	
108-05-4	Vinyl Acetate	ND	1,600	52	ND	460	15	
78-93-3	2-Butanone (MEK)	ND	160	16	ND	55	5.5	
156-59-2	cis-1,2-Dichloroethene	ND	33	16	ND	8.2	4.1	
108-20-3	Diisopropyl Ether	ND	160	19	ND	39	4.6	
67-66-3	<b>Chloroform</b>	<b>130,000</b>	33	19	<b>26,000</b>	6.7	3.9	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:     *CA*          Date:     6/10/08    

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00834

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	160	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	16	ND	8.1	4.0	
71-55-6	1,1,1-Trichloroethane	ND	33	16	ND	6.0	3.0	
71-43-2	Benzene	ND	33	16	ND	10	5.1	
56-23-5	Carbon Tetrachloride	ND	33	16	ND	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	160	16	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	16	ND	7.1	3.5	
75-27-4	<b>Bromodichloromethane</b>	<b>55</b>	33	16	<b>8.2</b>	4.9	2.4	
79-01-6	<b>Trichloroethene</b>	<b>51</b>	33	16	<b>9.4</b>	6.1	3.0	
123-91-1	1,4-Dioxane	ND	160	20	ND	45	5.5	
80-62-6	Methyl Methacrylate	ND	160	24	ND	40	6.0	
142-82-5	n-Heptane	ND	160	21	ND	40	5.1	
10061-01-5	cis-1,3-Dichloropropene	ND	160	17	ND	36	3.7	
108-10-1	4-Methyl-2-pentanone	ND	160	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	160	21	ND	36	4.5	
79-00-5	1,1,2-Trichloroethane	ND	33	16	ND	6.0	3.0	
108-88-3	<b>Toluene</b>	<b>51</b>	160	16	<b>14</b>	43	4.3	<b>J</b>
591-78-6	2-Hexanone	ND	160	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.8	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.2	2.3	
111-65-9	n-Octane	ND	160	16	ND	35	3.5	
127-18-4	<b>Tetrachloroethene</b>	<b>240</b>	33	16	<b>35</b>	4.8	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.1	3.6	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         *CA*              Date:         6/10/08        

**593**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG69B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-009

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00834

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 0.0050 Liter(s)  
 0.00050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	31	160	20	7.2	38	4.7	J
179601-23-1	m,p-Xylenes	140	160	42	32	38	9.8	J
75-25-2	Bromoform	ND	160	25	ND	16	2.4	
100-42-5	Styrene	ND	160	25	ND	38	5.8	
95-47-6	o-Xylene	48	160	21	11	38	4.7	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.7	3.0	
98-82-8	Cumene	ND	160	18	ND	33	3.7	
103-65-1	n-Propylbenzene	ND	160	17	ND	33	3.4	
622-96-8	4-Ethyltoluene	ND	160	19	ND	33	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	160	20	ND	33	4.0	
98-83-9	alpha-Methylstyrene	ND	160	24	ND	34	4.9	
95-63-6	1,2,4-Trimethylbenzene	ND	160	22	ND	33	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.3	5.4	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.4	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.4	3.0	
135-98-8	sec-Butylbenzene	ND	160	19	ND	30	3.4	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	160	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.4	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	160	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.3	
91-20-3	Naphthalene	ND	65	24	ND	12	4.6	
87-68-3	Hexachlorobutadiene	ND	33	29	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	65	16	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	65	16	ND	12	3.0	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

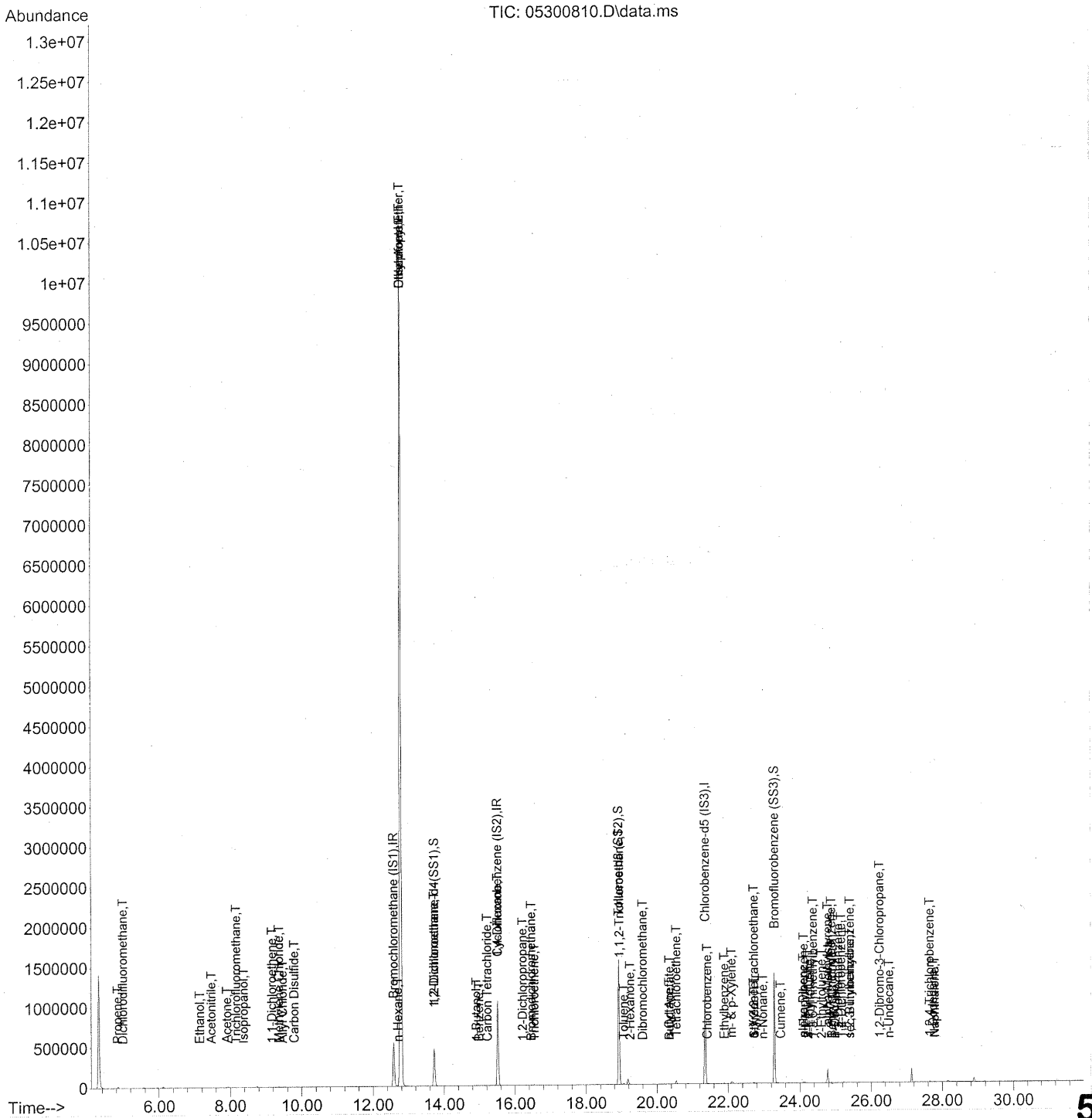
Verified By:         

Date: 6/10/08

**594**

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 15:06  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 15:06  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	290674	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1228713	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	577037	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	472207	23.445	ng	0.00
Spiked Amount	25.000			Recovery =	93.80%	✓
57) Toluene-d8 (SS2)	18.92	98	1297156	25.030	ng	0.00
Spiked Amount	25.000			Recovery =	100.12%	✓
73) Bromofluorobenzene (SS3)	23.29	174	526426	24.980	ng	0.00
Spiked Amount	25.000			Recovery =	99.92%	✓

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	2955	0.129	ng	# 1
3) Dichlorodifluoromethane	4.99	85	171	<del>0.004</del>	ng	# 53
4) Chloromethane	0.00	50	0	N.D.	✓	
5) Freon 114	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	7.14	45	85	<del>0.006</del>	ng	# 34
11) Acetonitrile	7.47	41	951	0.022	ng	# 1
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.90	58	2596	0.166	ng	# 1
14) Trichlorofluoromethane	8.16	101	176	<del>0.005</del>	ng	# 18
15) Isopropanol	8.37	45	53	0.001	ng	# 61
16) Acrylonitrile	0.00	53	0	N.D.	✓	
17) 1,1-Dichloroethene	9.17	96	489	<del>0.031</del>	ng	99
18) tert-Butanol	0.00	59	0	N.D.	✓	
19) Methylene Chloride	9.36	84	1692	0.097	ng	# 89
20) Allyl Chloride	9.46	41	60	<del>0.003</del>	ng	# 44
21) Trichlorotrifluoroethane	0.00	151	0	N.D.	✓	
22) Carbon Disulfide	9.78	76	1069	<del>0.016</del>	ng	# 76
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	0.00	72	0	N.D.	✓	
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	1309837	<del>93.599</del>	ng	# 1
30) Ethyl Acetate	12.79	61	62	0.010	ng	# 1
31) n-Hexane	12.70	57	743	0.024	ng	# 71

*Handwritten signature:* P. 05/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 15:06  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	11810075	<del>445.564</del>	ng	98 <i>see di.</i>
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.72	62	110	<del>0.004</del>	ng #	1
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	142	0.008	ng #	1
41) Benzene	14.99	78	2041	<del>0.032</del>	ng	77
42) Carbon Tetrachloride	15.21	117	336	<del>0.014</del>	ng #	69
43) Cyclohexane	15.51	84	609	0.024	ng #	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	16.21	63	59	<del>0.003</del>	ng #	14
46) Bromodichloromethane	16.46	83	3683	0.169	ng	97
47) Trichloroethene	16.54	130	3057	0.155	ng	97
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	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	18.94	97	111921	<del>7.040</del>	ng <i>MR</i>	7
58) Toluene	19.06	91	10984	0.156	ng	96
59) 2-Hexanone	19.24	43	83	<del>0.002</del>	ng #	20
60) Dibromochloromethane	19.59	129	774	<del>0.041</del>	ng	87
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.35	43	708	0.014	ng #	38
63) n-Octane	20.34	57	55	<del>0.004</del>	ng #	73
64) Tetrachloroethene	20.55	166	15259	0.732	ng	98
65) Chlorobenzene	21.41	112	187	<del>0.004</del>	ng #	42
66) Ethylbenzene	21.89	91	7766	0.096	ng	89
67) m- & p-Xylene	22.09	91	23294	0.431	ng	90
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.72	104	57	<del>0.001</del>	ng #	1
70) o-Xylene	22.71	91	8617	0.148	ng	89
71) n-Nonane	22.97	43	989	0.024	ng #	78
72) 1,1,2,2-Tetrachloroethane	22.72	83	52	<del>0.002</del>	ng #	17
74) Cumene	23.46	105	352	<del>0.005</del>	ng #	49
75) alpha-Pinene	24.10	93	73	0.002	ng #	46
76) n-Propylbenzene	24.11	91	529	<del>0.005</del>	ng #	1
77) 3-Ethyltoluene	24.23	105	1086	0.013	ng #	43
78) 4-Ethyltoluene	24.29	105	729	<del>0.009</del>	ng #	44
79) 1,3,5-Trimethylbenzene	24.37	105	302	<del>0.004</del>	ng #	65

597

*Paolo 10/8*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 15:06  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

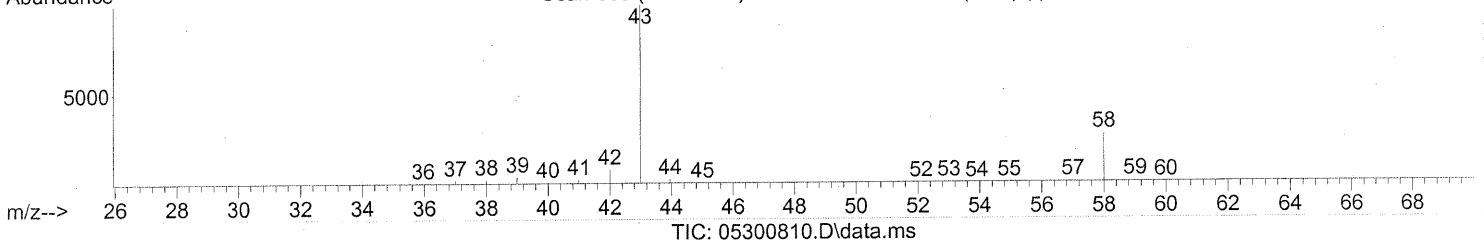
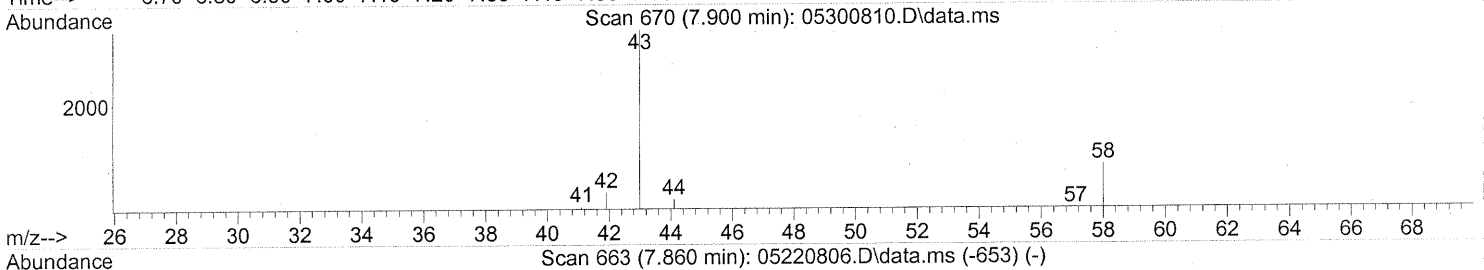
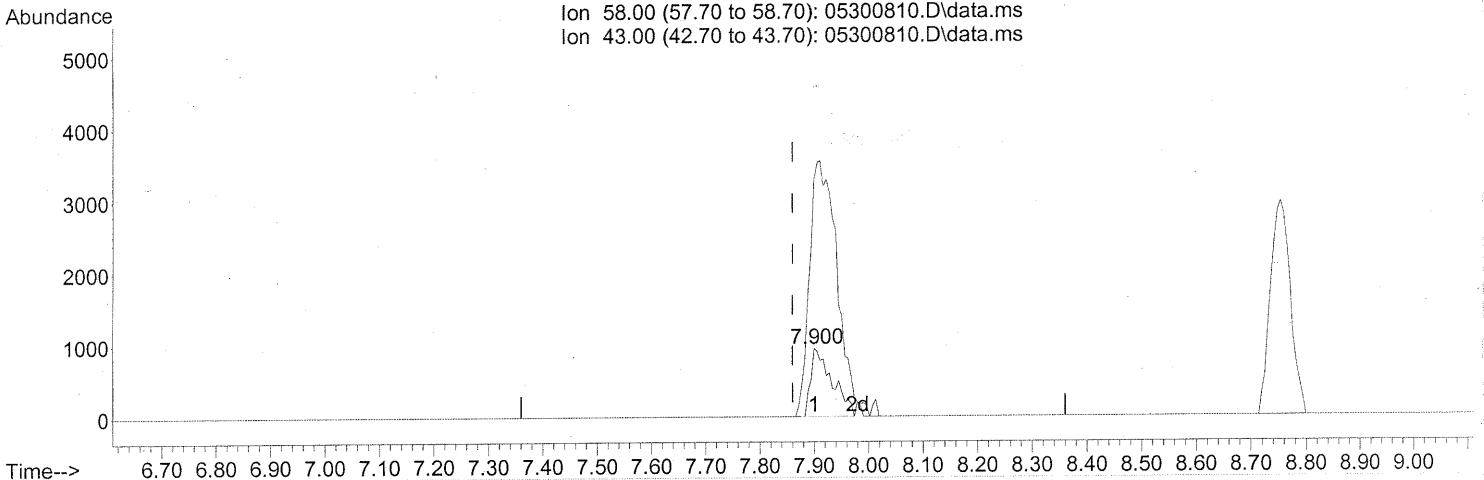
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.79	118	2533	<del>0.067</del>	ng	# 8
81) 2-Ethyltoluene	24.61	105	312	0.004	ng	# 43
82) 1,2,4-Trimethylbenzene	24.88	105	1002	<del>0.014</del>	ng	# 83
83) n-Decane	24.98	57	356	0.009	ng	# 50
84) Benzyl Chloride	24.90	91	540	<del>0.011</del>	ng	# 53
85) 1,3-Dichlorobenzene	25.08	146	116	<del>0.003</del>	ng	# 18
86) 1,4-Dichlorobenzene	25.16	146	546	<del>0.013</del>	ng	# 33
87) sec-Butylbenzene	25.41	105	271	<del>0.003</del>	ng	# 59
88) p-Isopropyltoluene	0.00	119	0	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	271	0.004	ng	# 82
90) 1,2-Dichlorobenzene	25.16	146	546	<del>0.013</del>	ng	# 33
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	26.24	157	120	<del>0.009</del>	ng	# 18
93) n-Undecane	26.50	57	767	0.019	ng	# 93
94) 1,2,4-Trichlorobenzene	27.64	180	214	<del>0.007</del>	ng	# 75
95) Naphthalene	27.78	128	1935	<del>0.021</del>	ng	# 70
96) n-Dodecane	27.73	57	1070	0.026	ng	# 86
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.900min (+0.040) 0.17ng

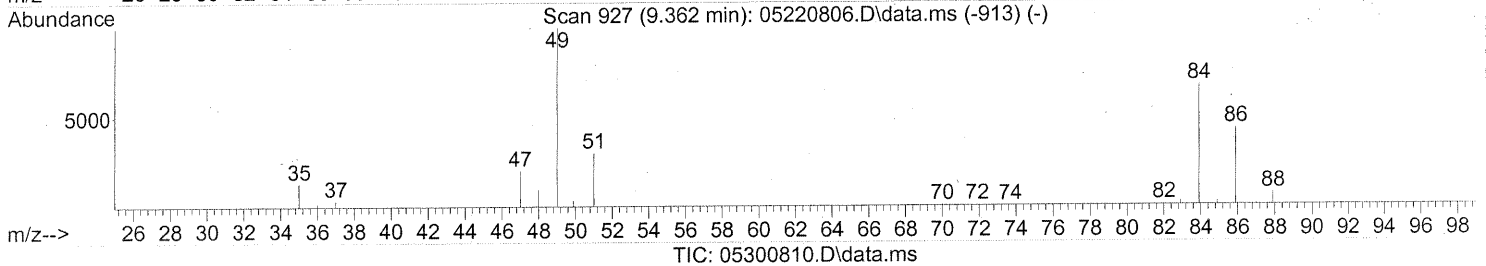
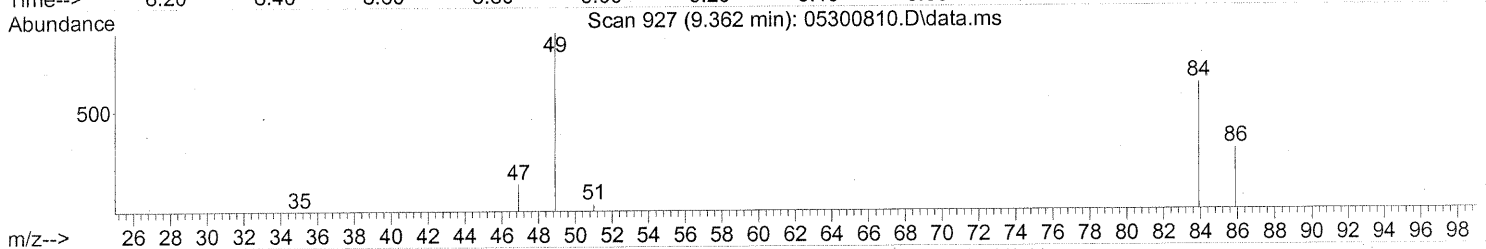
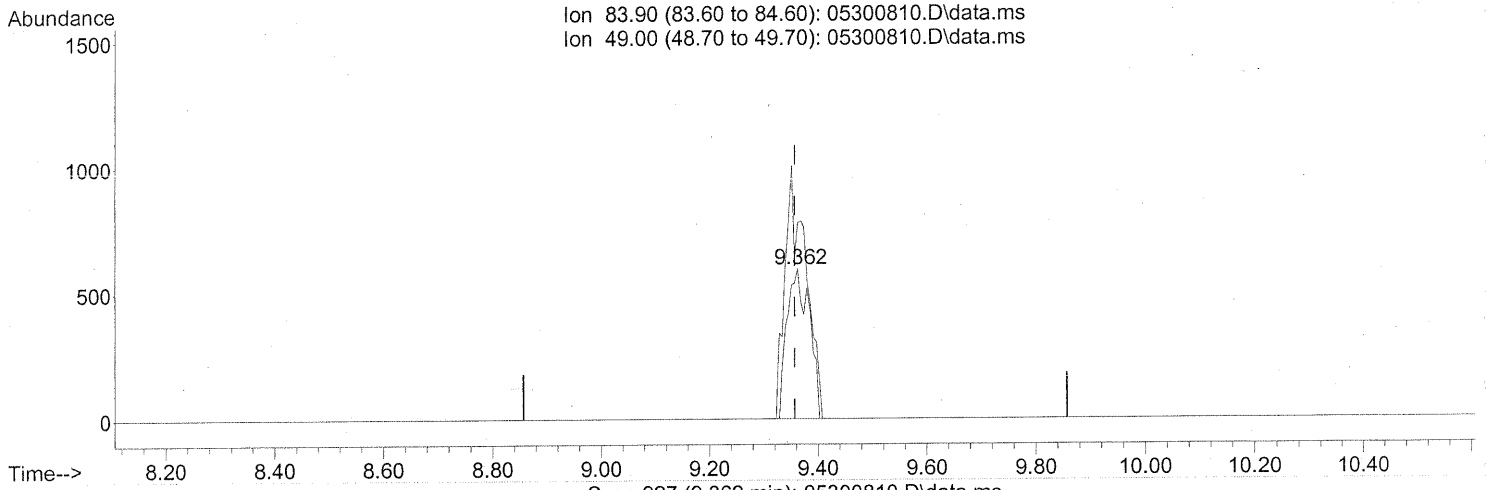
response 2596

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	483.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300810.D  
Acq On : 30 May 2008 3:06 pm  
Operator : WA  
Sample : P0801548-009 (5.0ml)  
Misc : ENSR SG69B-05 (-3.5,3.5)  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.10ng

response 1692

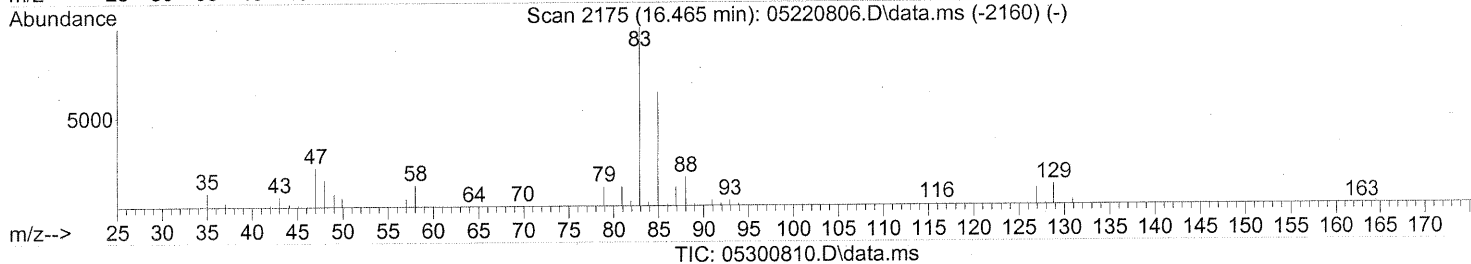
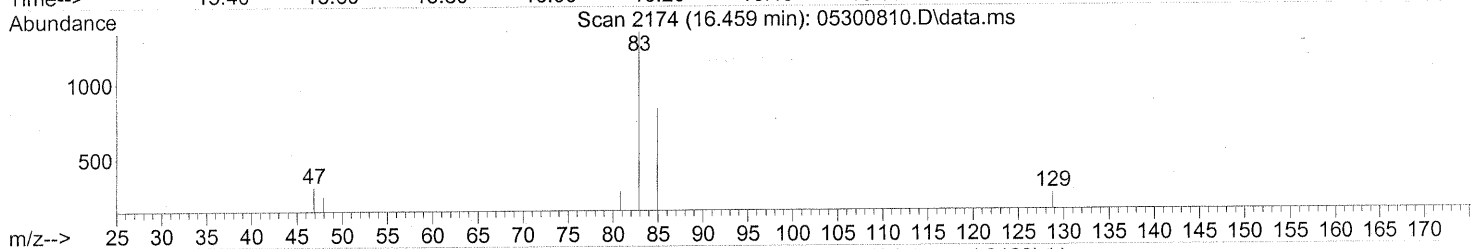
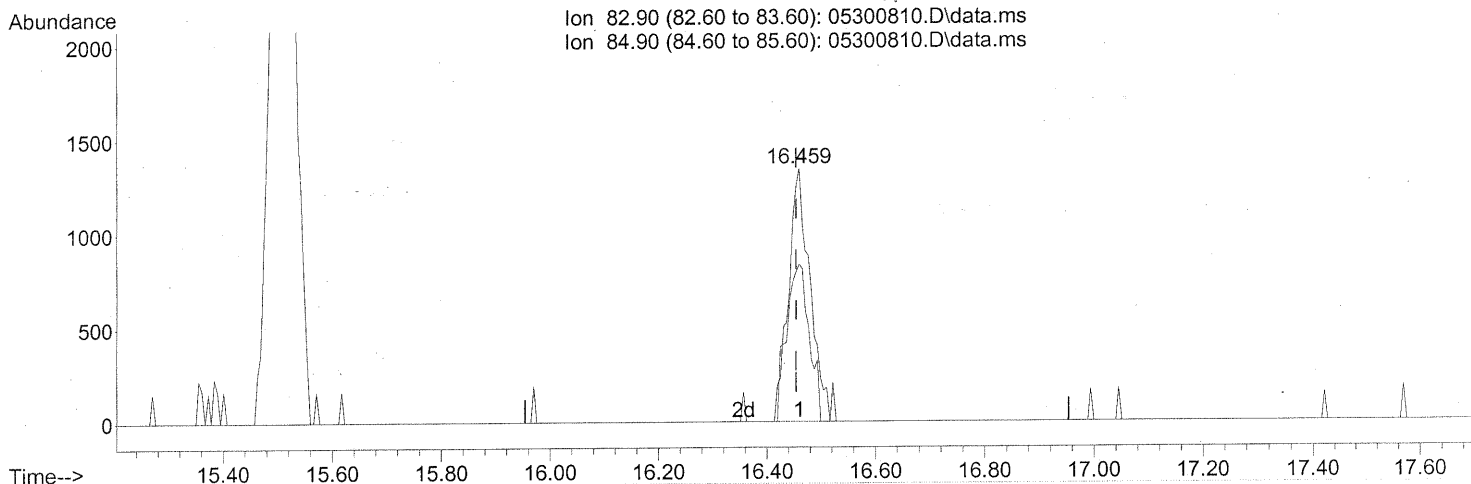
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	157.62
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.17ng

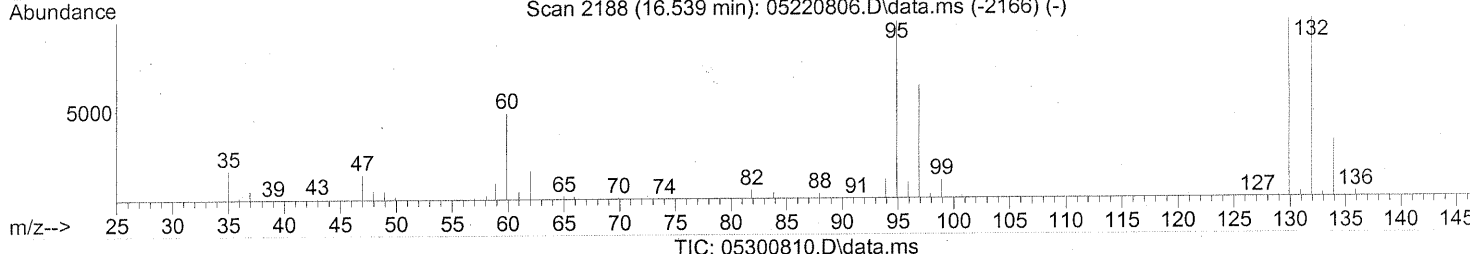
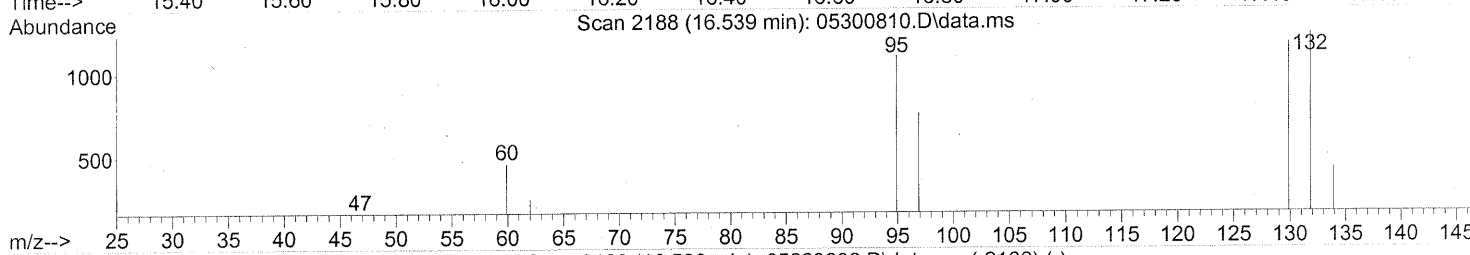
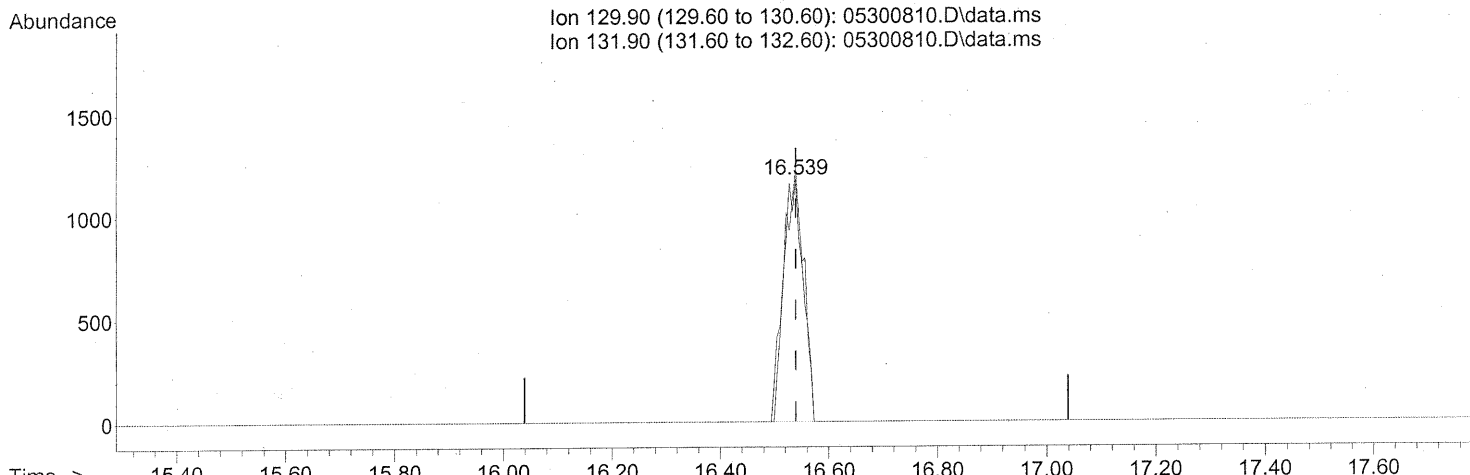
response 3683

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	65.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300810.D  
Acq On : 30 May 2008 3:06 pm  
Operator : WA  
Sample : P0801548-009 (5.0ml)  
Misc : ENSR SG69B-05 (-3.5,3.5)  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



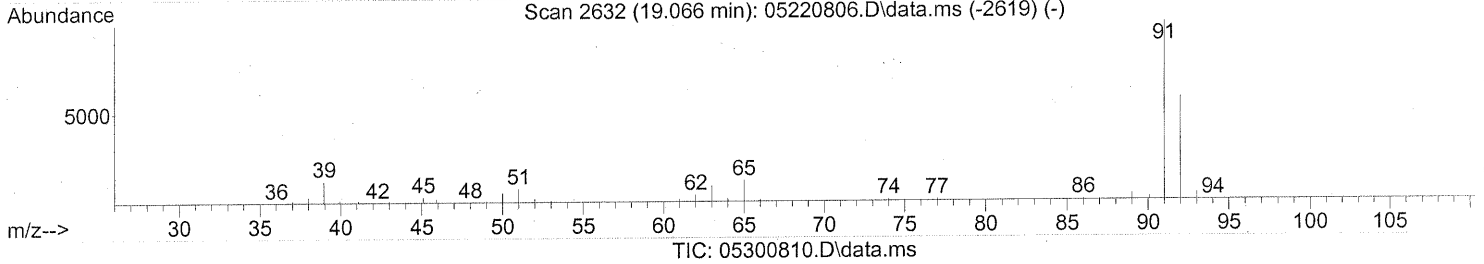
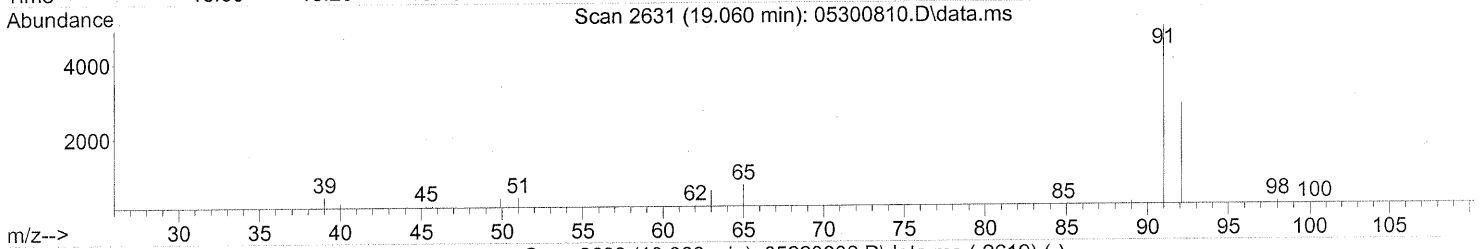
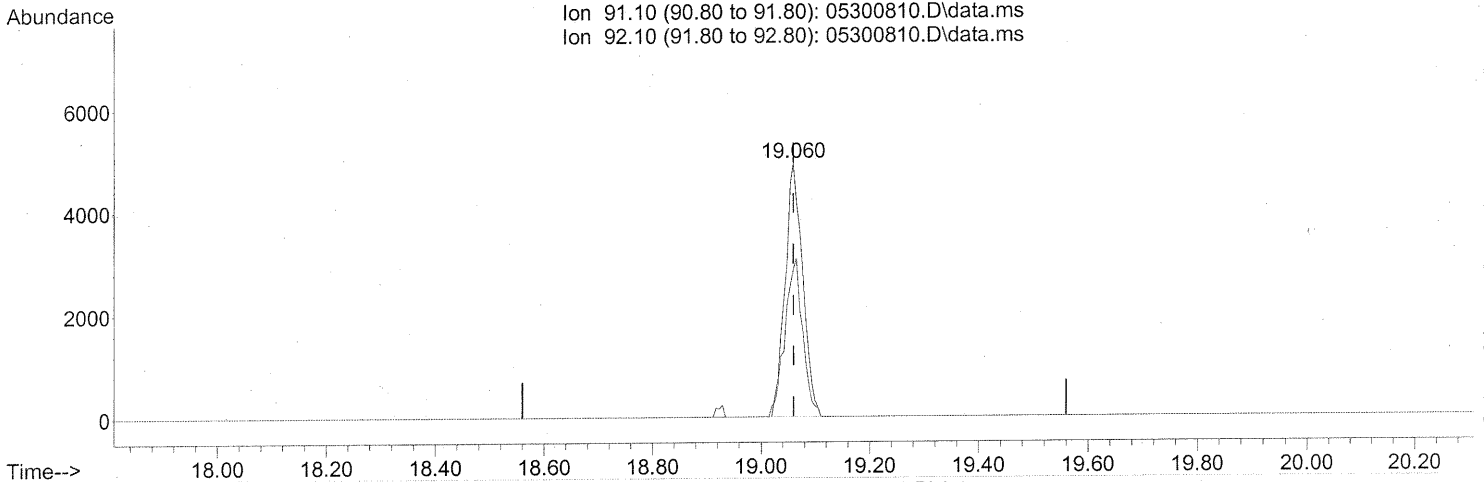
(47) Trichloroethene (T)  
16.539min (-0.000) 0.15ng  
response 3057

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	98.27
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 0.16ng

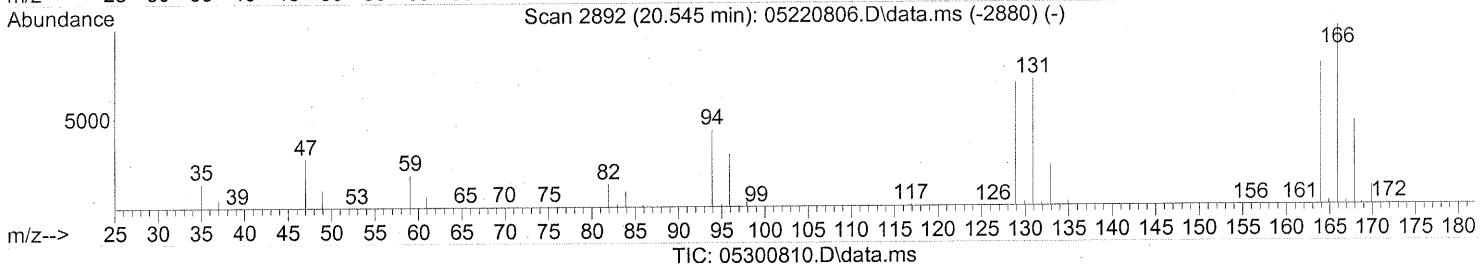
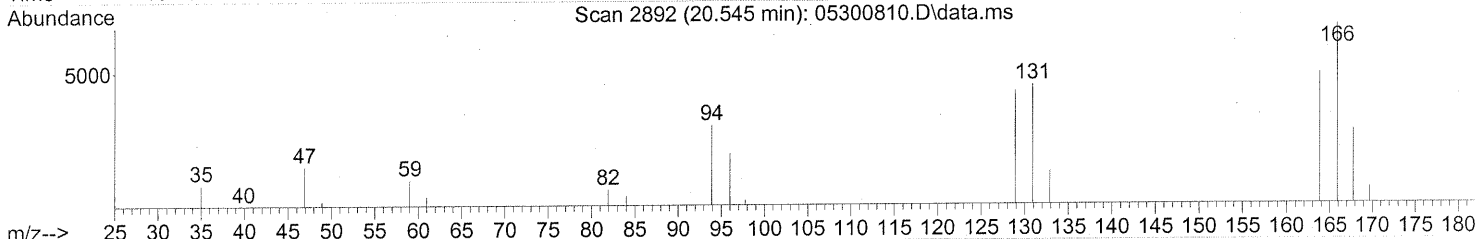
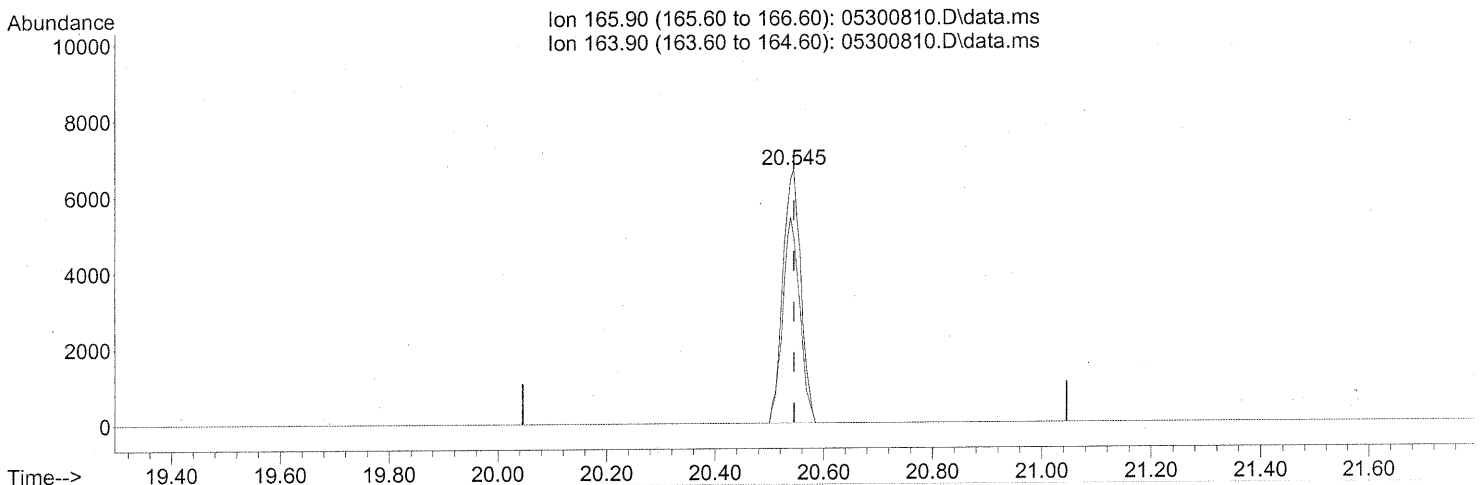
response 10984

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	62.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300810.D  
Acq On : 30 May 2008 3:06 pm  
Operator : WA  
Sample : P0801548-009 (5.0ml)  
Misc : ENSR SG69B-05 (-3.5,3.5)  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.545min (-0.000) 0.73ng

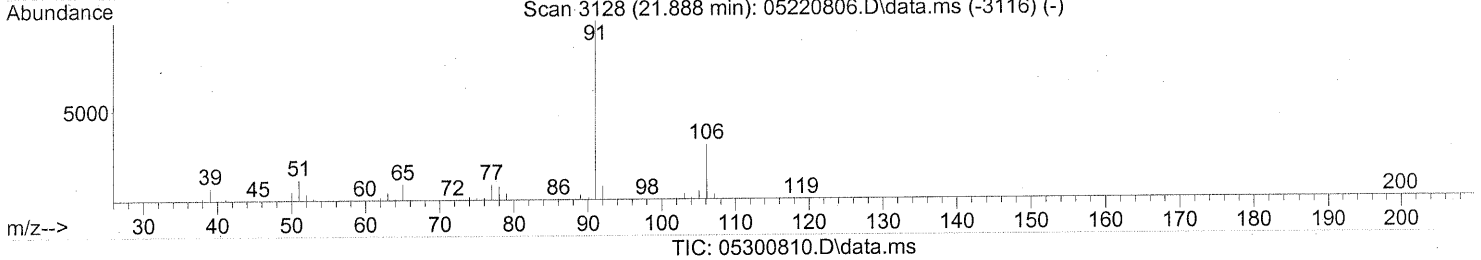
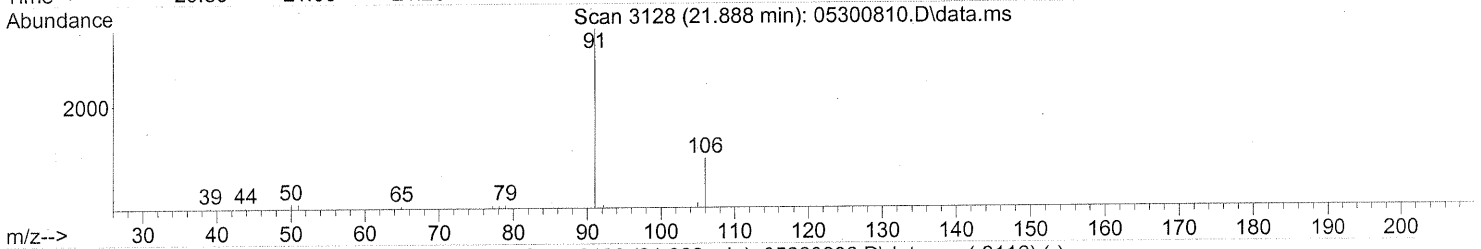
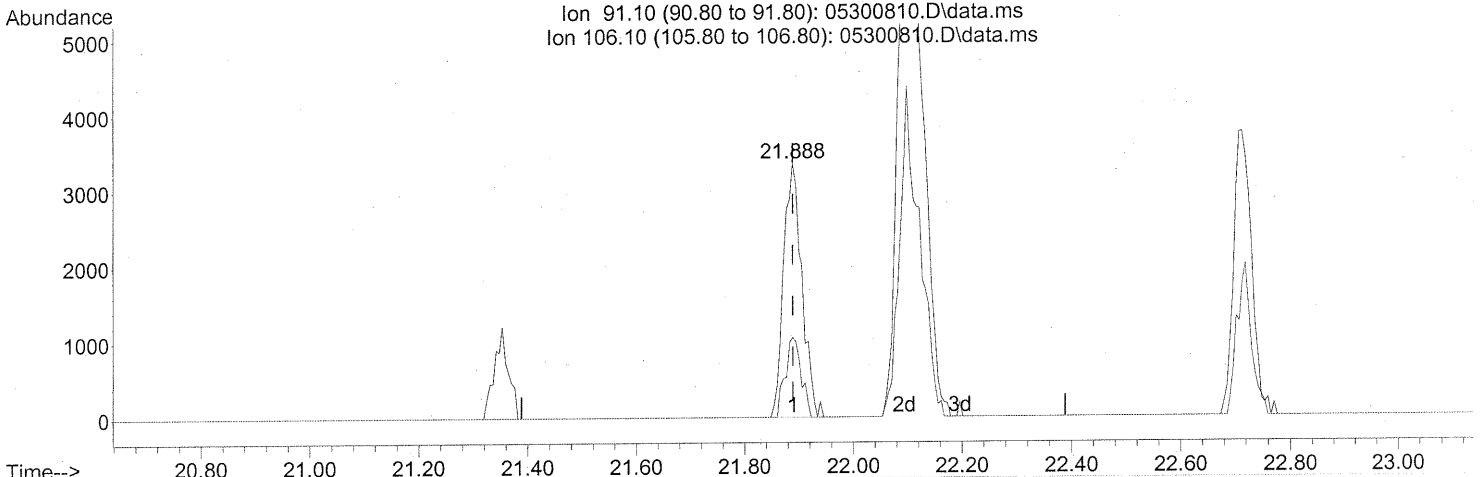
response 15259

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	76.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 0.10ng

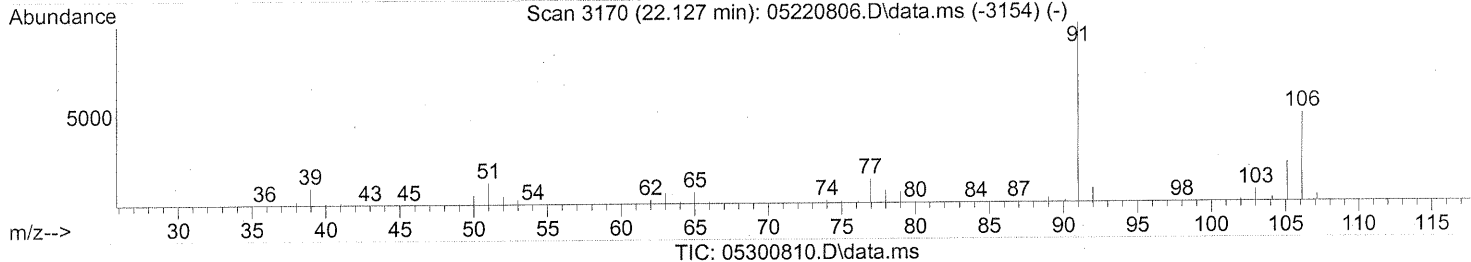
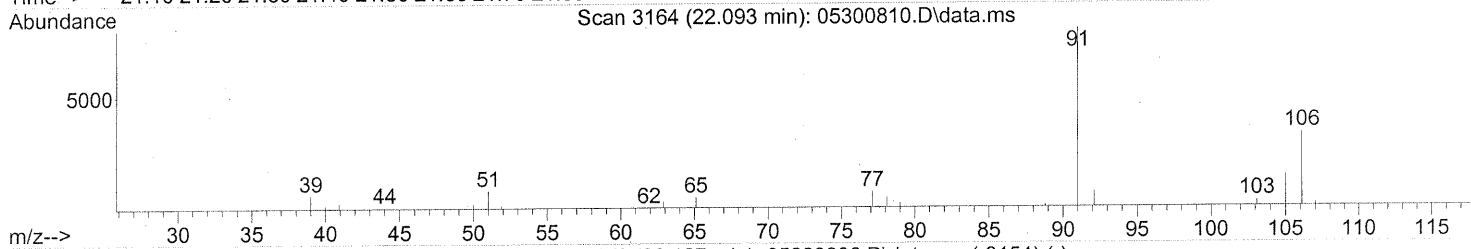
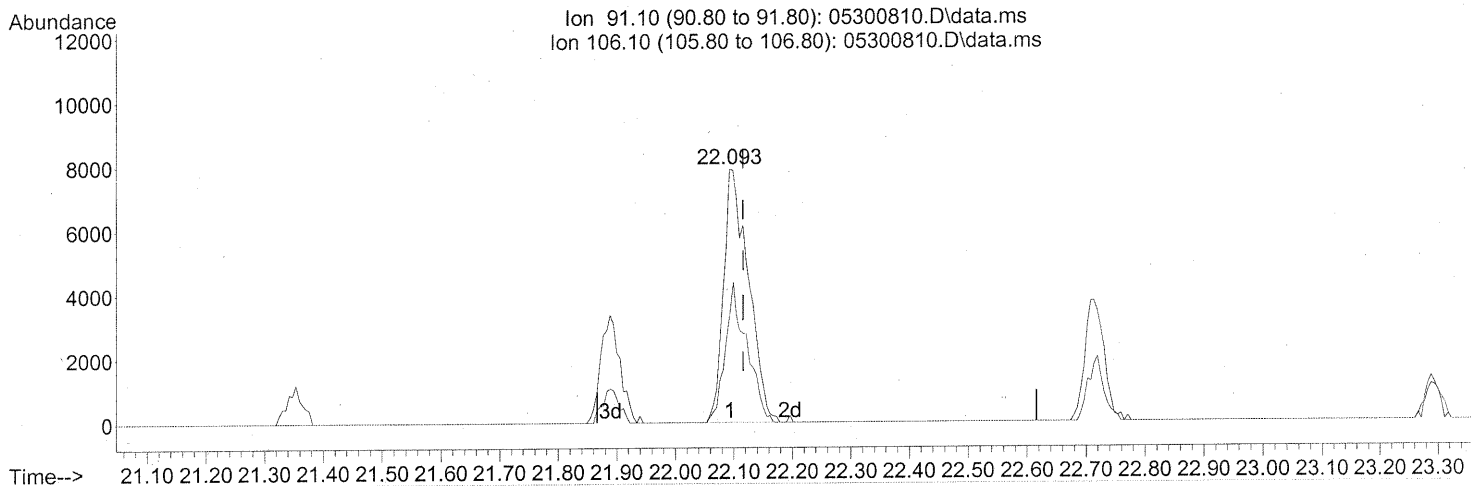
response 7766

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	27.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.093min (-0.023) 0.43ng

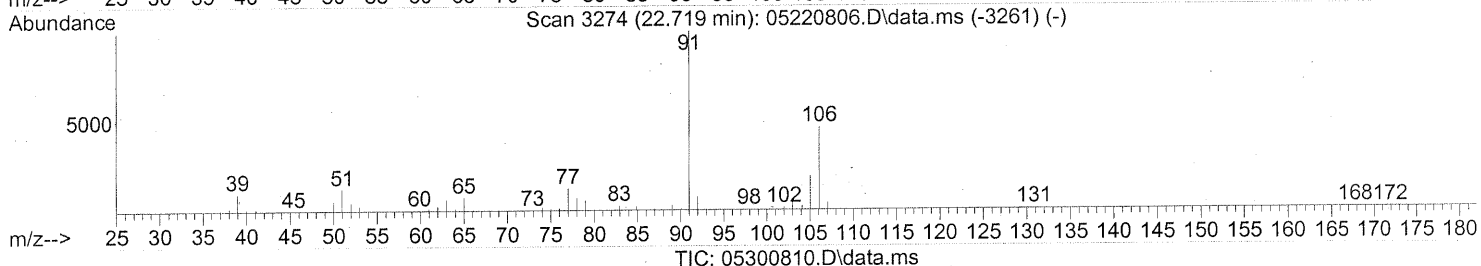
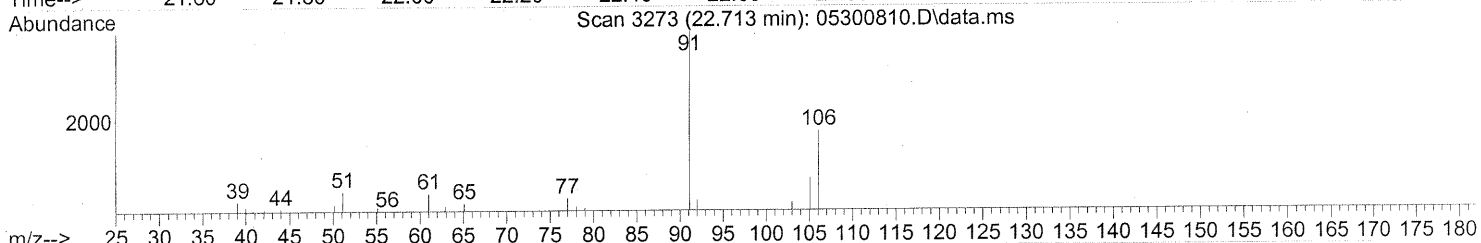
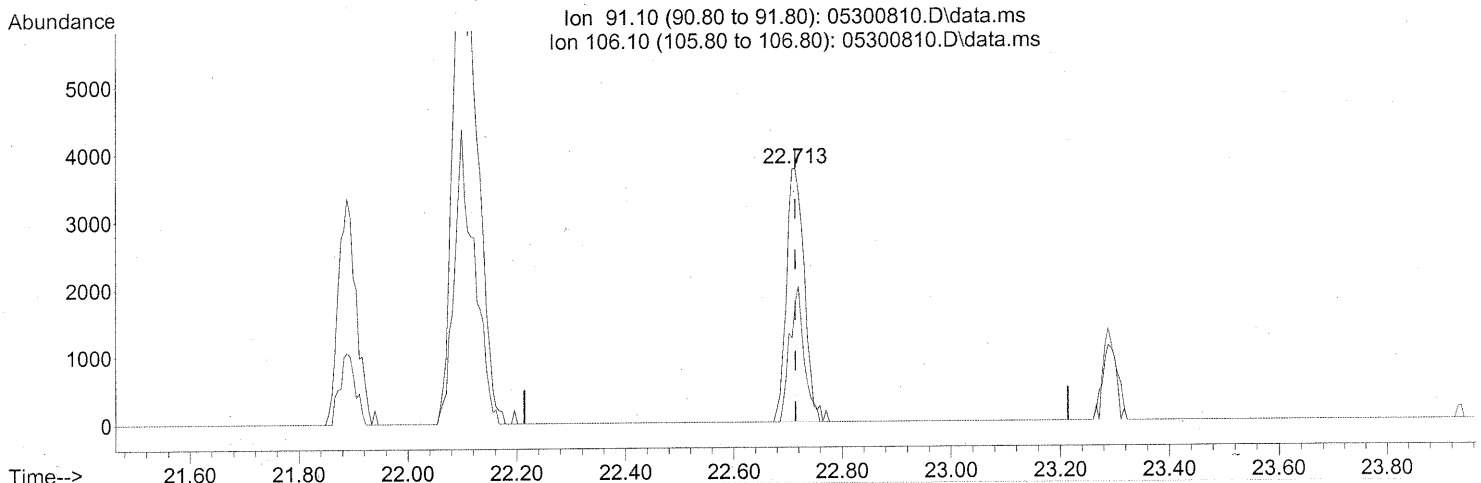
response 23294

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	47.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 15:51:14 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

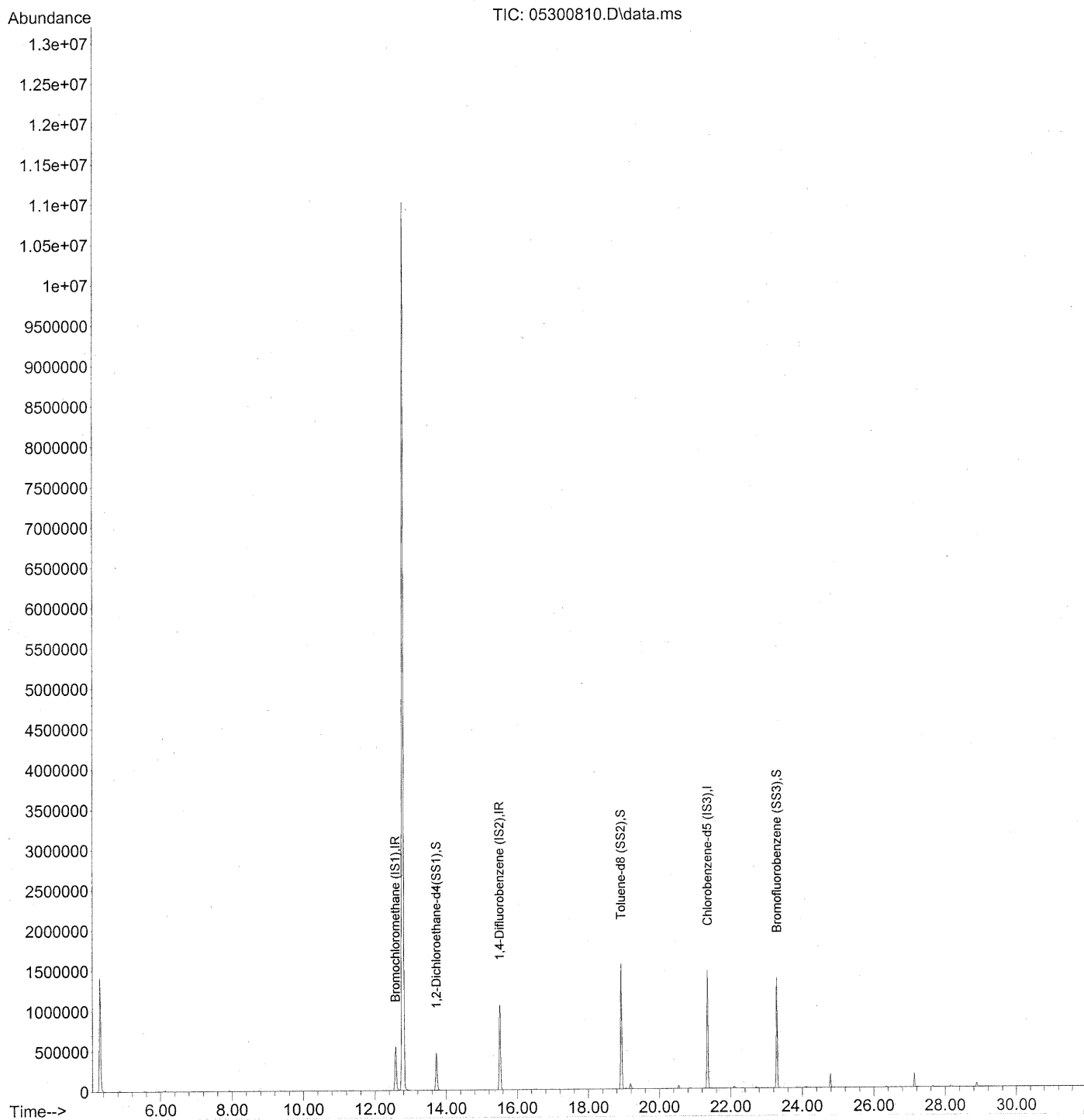
22.713min (-0.000) 0.15ng

response 8617

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	42.96
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5) ✓  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 08 17:22:32 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300810.D  
 Acq On : 30 May 2008 3:06 pm  
 Operator : WA  
 Sample : P0801548-009 (5.0ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 08 17:22:32 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

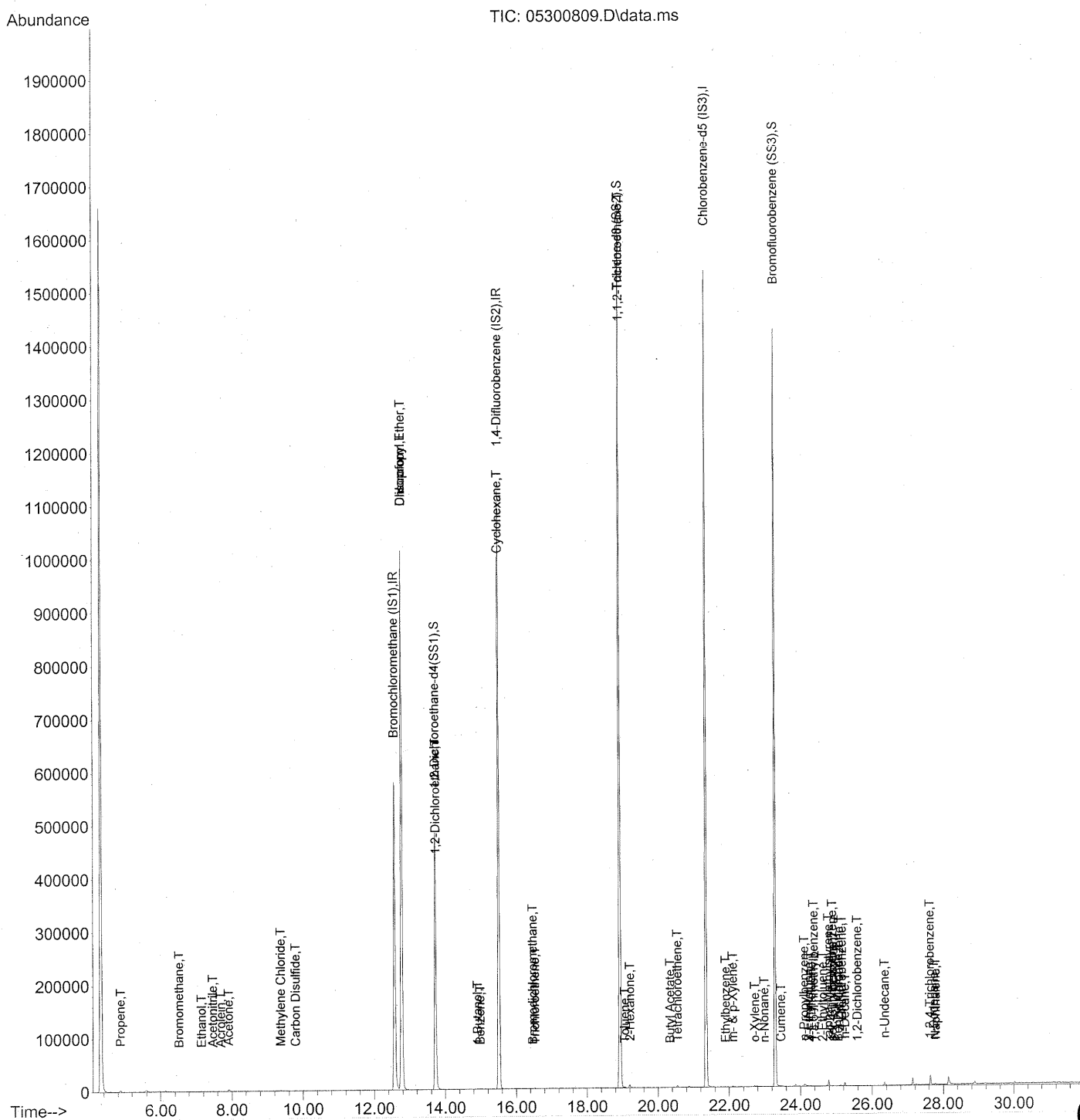
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	290674	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1228713	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	577037	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	472207	23.445	ng	-0.03
Spiked Amount	25.000		Recovery	=	93.80%	✓
5) Toluene-d8 (SS2)	18.92	98	1297156	25.030	ng	-0.02
Spiked Amount	25.000		Recovery	=	100.12%	✓
6) Bromofluorobenzene (SS3)	23.29	174	526426	24.980	ng	0.00
Spiked Amount	25.000		Recovery	=	99.92%	✓
Target Compounds						
7) tert-Butylbenzene	24.89	119	53		N.D.	✓
8) n-Butylbenzene	0.00	91	0		N.D.	✓

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

*6/26/08/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300809.D  
 Acq On : 30 May 2008 14:25  
 Operator : WA  
 Sample : P0801548-009 Dil (0.50ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:58:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300809.D  
 Acq On : 30 May 2008 14:25  
 Operator : WA  
 Sample : P0801548-009 Dil (0.50ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:58:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	305619	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1299488	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	599302	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	501947	23.703	ng	-0.01
Spiked Amount	25.000		Recovery	=	94.80%	✓
57) Toluene-d8 (SS2)	18.92	98	1372207	25.495	ng	0.00
Spiked Amount	25.000		Recovery	=	101.96%	✓
73) Bromofluorobenzene (SS3)	23.29	174	547630	25.021	ng	0.00
Spiked Amount	25.000		Recovery	=	100.08%	✓

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	682	0.028	ng	# 1
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	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	6.52	94	54	0.003	ng	98
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.14	45	58	0.004	ng	# 34
11) Acetonitrile	7.47	41	829	0.018	ng	# 39
12) Acrolein	7.68	56	66	0.006	ng	# 15
13) Acetone	7.90	58	2224	0.135	ng	# 78
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	0.00	45	0	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	0.00	59	0	N.D.		
19) Methylene Chloride	9.37	84	668	0.036	ng	# 26
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	944	0.014	ng	# 76
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	0.00	72	0	N.D.		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	112415	7.640	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300809.D  
 Acq On : 30 May 2008 14:25  
 Operator : WA  
 Sample : P0801548-009 Dil (0.50ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:58:47 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	1089267	39.086 ng		99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	163	0.006 ng	#	1
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.91	56	134	0.008 ng	#	4
41) Benzene	14.97	78	1058	0.016 ng	#	52
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.50	84	867	0.033 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	16.46	83	121	0.005 ng		84
47) Trichloroethene	16.53	130	560	0.027 ng	#	23
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	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	18.93	97	120821	7.186 ng	#	8
58) Toluene	19.06	91	1653	0.023 ng		81
59) 2-Hexanone	19.21	43	61	0.001 ng	#	20
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.34	43	52	0.001 ng	#	38
63) n-Octane	0.00	57	0	N.D.		
64) Tetrachloroethene	20.55	166	1607	0.074 ng		85
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.90	91	778	0.009 ng	#	41
67) m- & p-Xylene	22.10	91	2380	0.042 ng		93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.72	91	1158	0.019 ng	#	52
71) n-Nonane	22.99	43	52	0.001 ng	#	57
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.45	105	51	0.001 ng	#	49
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.10	91	144	0.001 ng	#	58
77) 3-Ethyltoluene	24.23	105	327	0.004 ng	#	43
78) 4-Ethyltoluene	24.31	105	729	0.009 ng	#	61
79) 1,3,5-Trimethylbenzene	24.37	105	57	0.001 ng	#	28

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300809.D  
 Acq On : 30 May 2008 14:25  
 Operator : WA  
 Sample : P0801548-009 Dil (0.50ml)  
 Misc : ENSR SG69B-05 (-3.5,3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:58:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.78	118	55	0.001	ng	# 1
81) 2-Ethyltoluene	24.62	105	195	0.002	ng	# 43
82) 1,2,4-Trimethylbenzene	24.89	105	506	0.007	ng	# 24
83) n-Decane	25.23	57	4032	0.100	ng	# 50
84) Benzyl Chloride	25.05	91	321	0.006	ng	# 53
85) 1,3-Dichlorobenzene	25.08	146	64	0.001	ng	# 18
86) 1,4-Dichlorobenzene	25.16	146	195	0.004	ng	# 8
87) sec-Butylbenzene	24.89	105	506	0.005	ng	# 65
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	0.00	105	0	N.D.		
90) 1,2-Dichlorobenzene	25.59	146	52	0.001	ng	# 19
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.35	57	1538	0.036	ng	# 56
94) 1,2,4-Trichlorobenzene	27.63	180	628	0.020	ng	# 61
95) Naphthalene	27.78	128	3426	0.035	ng	# 81
96) n-Dodecane	27.73	57	52	0.001	ng	# 41
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

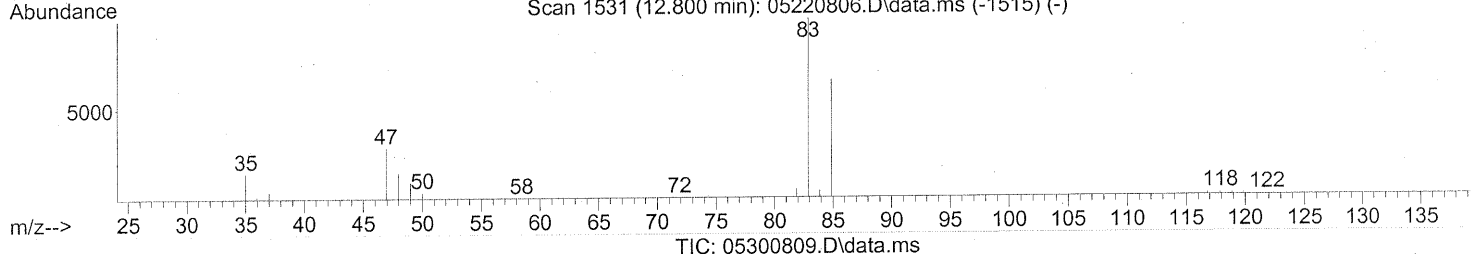
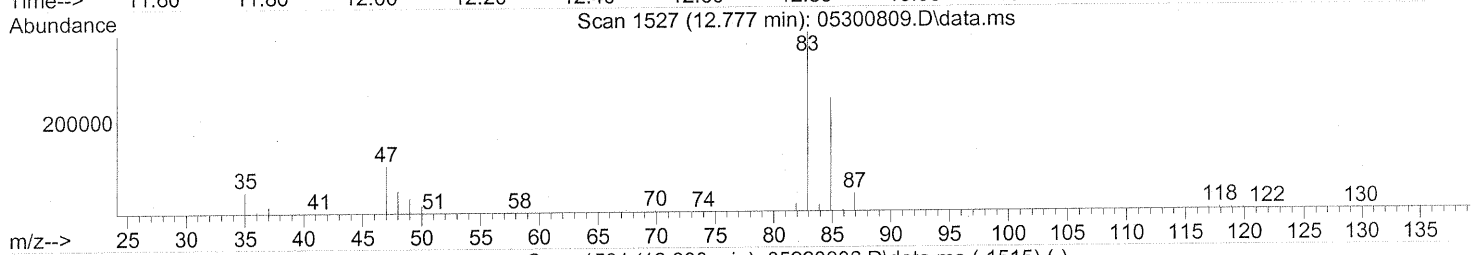
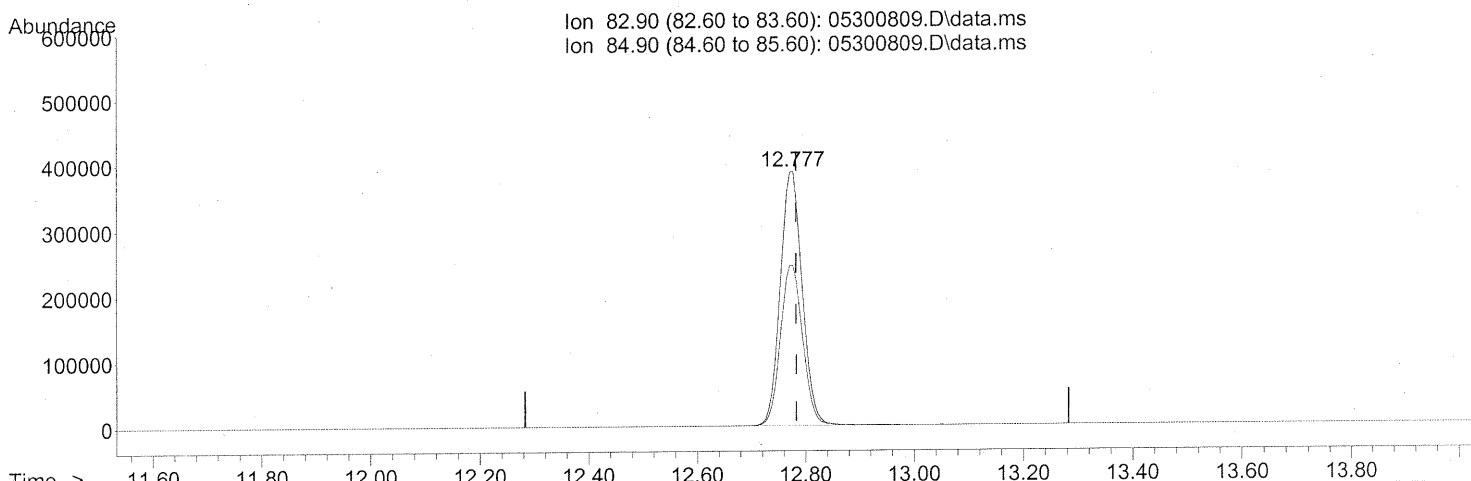
(#) = qualifier out of range (m) = manual integration (+) = signals summed

CA 5/30/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300809.D  
Acq On : 30 May 2008 14:25  
Operator : WA  
Sample : P0801548-009 Dil (0.50ml)  
Misc : ENSR SG69B-05 (-3.5,3.5)  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 14:58:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 39.09ng

response 1089267

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.81
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00786

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.79	0.079	0.40	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.079	ND	0.077	0.038	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.092	0.79	0.079	0.013	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.16	0.079	ND	0.062	0.031	
74-83-9	Bromomethane	ND	0.16	0.079	ND	0.041	0.020	
75-00-3	Chloroethane	ND	0.16	0.079	ND	0.060	0.030	
64-17-5	Ethanol	1.4	7.9	0.079	0.76	4.2	0.042	J
67-64-1	Acetone	4.0	7.9	0.12	1.7	3.3	0.049	J, B
75-69-4	Trichlorofluoromethane	2.1	0.16	0.079	0.38	0.028	0.014	
107-13-1	Acrylonitrile	ND	0.79	0.11	ND	0.36	0.051	
75-35-4	1,1-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.40	0.79	0.12	0.13	0.26	0.039	J
75-09-2	Methylene Chloride	ND	0.79	0.079	ND	0.23	0.023	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.079	ND	0.050	0.025	
76-13-1	Trichlorotrifluoroethane	0.50	0.16	0.088	0.065	0.021	0.012	
75-15-0	Carbon Disulfide	0.65	0.79	0.19	0.21	0.25	0.061	J
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
75-34-3	1,1-Dichloroethane	ND	0.16	0.079	ND	0.039	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.079	ND	0.044	0.022	
108-05-4	Vinyl Acetate	1.3	7.9	0.25	0.36	2.2	0.072	J
78-93-3	2-Butanone (MEK)	2.0	0.79	0.079	0.67	0.27	0.027	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.079	ND	0.040	0.020	
108-20-3	Diisopropyl Ether	ND	0.79	0.093	ND	0.19	0.022	
67-66-3	Chloroform	14	0.16	0.093	2.9	0.032	0.019	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08 **615**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00786

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.79	0.081	ND	0.19	0.019	
107-06-2	1,2-Dichloroethane	ND	0.16	0.079	ND	0.039	0.020	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.10</b>	0.16	0.079	<b>0.018</b>	0.029	0.014	<b>J</b>
71-43-2	<b>Benzene</b>	<b>2.9</b>	0.16	0.079	<b>0.89</b>	0.049	0.025	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.11</b>	0.16	0.079	<b>0.017</b>	0.025	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.79	0.079	ND	0.19	0.019	
78-87-5	1,2-Dichloropropane	ND	0.16	0.079	ND	0.034	0.017	
75-27-4	Bromodichloromethane	ND	0.16	0.079	ND	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>0.92</b>	0.16	0.079	<b>0.17</b>	0.029	0.015	
123-91-1	1,4-Dioxane	ND	0.79	0.096	ND	0.22	0.027	
80-62-6	Methyl Methacrylate	ND	0.79	0.12	ND	0.19	0.029	
142-82-5	n-Heptane	ND	0.79	0.10	ND	0.19	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.79	0.082	ND	0.17	0.018	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.19</b>	0.79	0.088	<b>0.047</b>	0.19	0.022	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	0.79	0.10	ND	0.17	0.022	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.079	ND	0.029	0.014	
108-88-3	<b>Toluene</b>	<b>2.0</b>	0.79	0.079	<b>0.52</b>	0.21	0.021	
591-78-6	<b>2-Hexanone</b>	<b>0.29</b>	0.79	0.12	<b>0.070</b>	0.19	0.029	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.085	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>0.22</b>	0.79	0.079	<b>0.047</b>	0.17	0.017	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>11</b>	0.16	0.079	<b>1.6</b>	0.023	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.081	ND	0.034	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:                      Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG48B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-010

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00786

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -3.2      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.58

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.63	0.79	0.098	0.15	0.18	0.023	J
179601-23-1	m,p-Xylenes	4.4	0.79	0.21	1.0	0.18	0.047	
75-25-2	Bromoform	0.35	0.79	0.12	0.034	0.076	0.012	J
100-42-5	Styrene	4.7	0.79	0.12	1.1	0.19	0.028	
95-47-6	o-Xylene	2.6	0.79	0.10	0.60	0.18	0.023	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.023	0.015	
98-82-8	Cumene	0.10	0.79	0.088	0.021	0.16	0.018	J
103-65-1	n-Propylbenzene	0.36	0.79	0.082	0.072	0.16	0.017	J
622-96-8	4-Ethyltoluene	0.45	0.79	0.090	0.092	0.16	0.018	J
108-67-8	1,3,5-Trimethylbenzene	0.43	0.79	0.095	0.086	0.16	0.019	J
98-83-9	alpha-Methylstyrene	0.74	0.79	0.12	0.15	0.16	0.024	J
95-63-6	1,2,4-Trimethylbenzene	1.7	0.79	0.11	0.36	0.16	0.022	
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.026	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.098	ND	0.026	0.016	
106-46-7	1,4-Dichlorobenzene	3.1	0.16	0.088	0.51	0.026	0.015	
135-98-8	sec-Butylbenzene	ND	0.79	0.092	ND	0.14	0.017	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.42	0.79	0.10	0.077	0.14	0.019	J
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.10	ND	0.026	0.017	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.79	0.12	ND	0.082	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.16	0.12	ND	0.021	0.016	
91-20-3	Naphthalene	1.8	0.32	0.12	0.34	0.060	0.022	
87-68-3	Hexachlorobutadiene	ND	0.16	0.14	ND	0.015	0.013	
98-06-6	tert-Butylbenzene	ND	0.32	0.079	ND	0.058	0.014	
104-51-8	n-Butylbenzene	0.48	0.32	0.079	0.087	0.058	0.014	

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

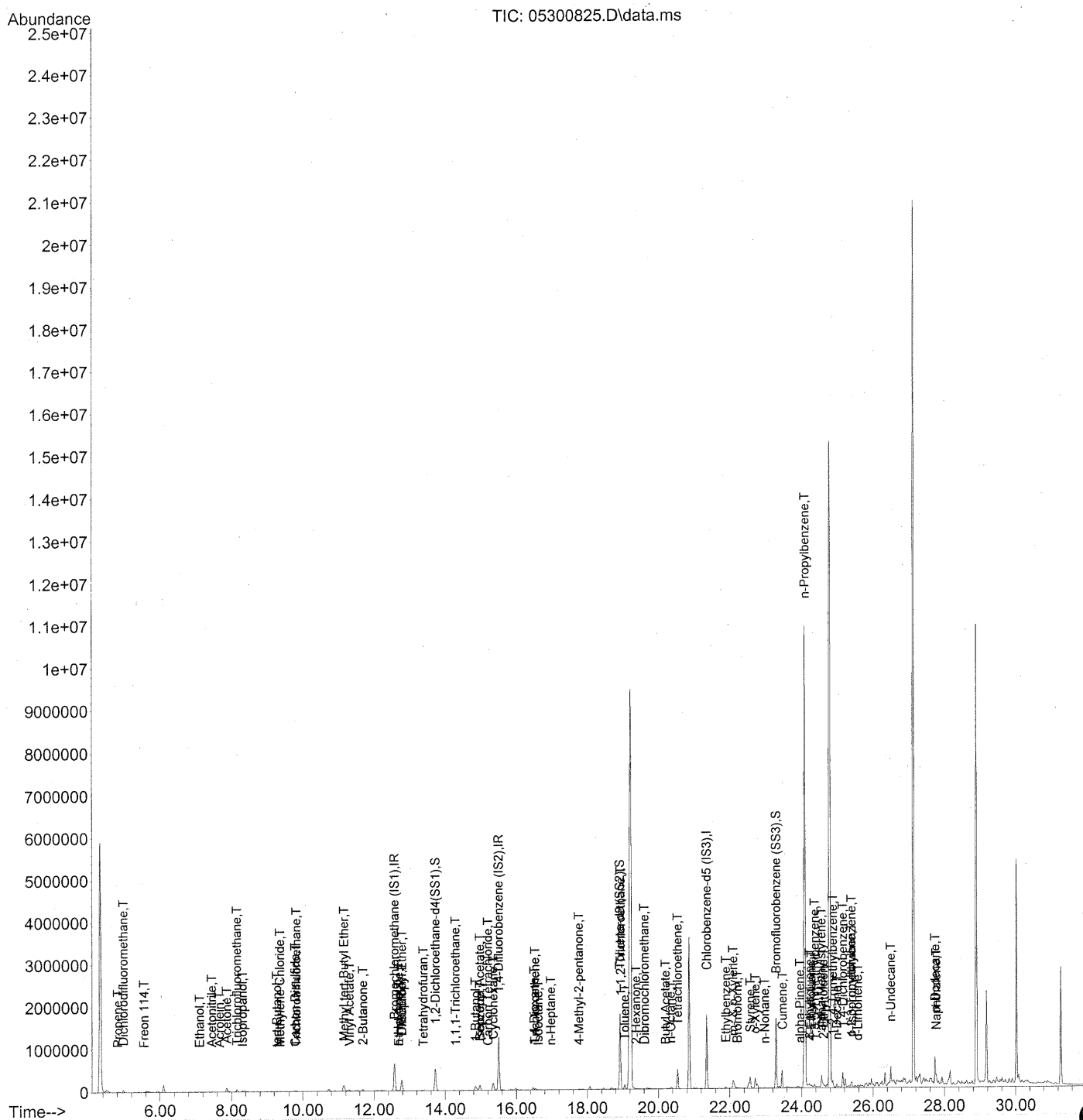
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	354460	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1487537	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	691971	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	540265	21.997	ng	0.00
Spiked Amount				25.000		
Recovery					=	88.00% ✓
57) Toluene-d8 (SS2)	18.92	98	1532692	24.663	ng	0.00
Spiked Amount				25.000		
Recovery					=	98.64% ✓
73) Bromofluorobenzene (SS3)	23.29	174	646341	25.576	ng	0.00
Spiked Amount				25.000		
Recovery					=	102.32% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	9103	0.325	ng	# 68
3) Dichlorodifluoromethane	4.97	85	64526	1.250	ng	99
4) Chloromethane	5.33	50	557	N.D.	✓	
5) Freon 114	5.55	135	1469	0.058	ng	89
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.04	54	790	N.D.		
8) Bromomethane	6.51	94	64	N.D.	✓	
9) Chloroethane	0.00	64	0	N.D.	✓	
10) Ethanol	7.11	45	16791m	0.901	ng	
11) Acetonitrile	7.45	41	18049	0.335	ng	88
12) Acrolein	7.67	56	3620	0.272	ng	81
13) Acetone	7.87	58	48064m	2.519	ng	
14) Trichlorofluoromethane	8.15	101	59369	1.341	ng	100
15) Isopropanol	8.32	45	54158	0.890	ng	97
16) Acrylonitrile	8.62	53	56	N.D.	✓	
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	9.27	59	13252m	0.256	ng	
19) Methylene Chloride	9.36	84	956	<del>0.045</del>	ng	87
20) Allyl Chloride	9.46	41	855	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	6330	0.314	ng	94
22) Carbon Disulfide	9.78	76	33506	0.414	ng	99
23) trans-1,2-Dichloroethene	10.73	61	570	N.D.	✓	
24) 1,1-Dichloroethane	0.00	63	0	N.D.	✓	
25) Methyl tert-Butyl Ether	11.15	73	2654	<del>0.043</del>	ng	94
26) Vinyl Acetate	11.30	86	2802	0.795	ng	# 1
27) 2-Butanone	11.68	72	17476	1.255	ng	# 83
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	29238	<del>1.713</del>	ng	# 1
30) Ethyl Acetate	12.69	61	565	0.075	ng	80
31) n-Hexane	12.69	57	1980	0.052	ng	# 71

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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	285208	8.824	ng	99
34) Tetrahydrofuran	13.38	72	1673	0.126	ng #	74
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.72	62	275	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	2146	0.063	ng #	61
39) Isopropyl Acetate	14.97	61	2093	0.165	ng #	1
40) 1-Butanol	14.85	56	103882	5.081	ng	85
41) Benzene	14.97	78	140586	1.805	ng	100
42) Carbon Tetrachloride	15.20	117	2063	0.069	ng	98
43) Cyclohexane	15.35	84	9612	0.317	ng #	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	✓	
46) Bromodichloromethane	16.46	83	521	N.D.	✓	
47) Trichloroethene	16.53	130	13872	0.581	ng	96
48) 1,4-Dioxane	16.50	88	697	<del>0.047</del>	ng	93
49) Isooctane	16.62	57	3825	0.043	ng #	5
50) Methyl Methacrylate	16.98	100	71	N.D.	✓	
51) n-Heptane	<del>16.97</del>	71	1227	<del>0.059</del>	ng #	NO: 62
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	Podstos
53) 4-Methyl-2-pentanone	17.77	58	2531	0.122	ng	95
54) trans-1,3-Dichloropropene	18.45	75	53	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	134002	<del>6.962</del>	ng #	8
58) Toluene	19.05	91	105291	1.246	ng	98
59) 2-Hexanone	19.37	43	10523	0.181	ng #	63
60) Dibromochloromethane	19.61	129	1180	0.052	ng	<mol 97
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.20	43	2964	0.050	ng #	39
63) n-Octane	20.35	57	2577	0.138	ng	98
64) Tetrachloroethene	20.54	166	176873	7.076	ng	99
65) Chlorobenzene	21.41	112	1252	N.D.	✓	
66) Ethylbenzene	21.89	91	38647	0.399	ng	94
67) m- & p-Xylene	22.09	91	182174	2.812	ng	91
68) Bromoform	22.21	173	3766	0.222	ng	92
69) Styrene	22.57	104	172371	2.976	ng	97
70) o-Xylene	22.71	91	114921	1.643	ng	95
71) n-Nonane	22.98	43	4973	0.100	ng	93
72) 1,1,2,2-Tetrachloroethane	22.71	83	567	N.D.	✓	
74) Cumene	23.47	105	6048	0.065	ng	96
75) alpha-Pinene	23.96	93	3357	0.070	ng #	46
76) n-Propylbenzene	24.10	91	26695	0.225	ng #	1
77) 3-Ethyltoluene	24.23	105	56105	0.566	ng	99
78) 4-Ethyltoluene	24.28	105	26490	0.287	ng	97
79) 1,3,5-Trimethylbenzene	24.37	105	22496	0.269	ng	99

*Podstos*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	21251	0.470	ng	# 76
81) 2-Ethyltoluene	24.61	105	32259	0.321	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	94044	1.106	ng	86
83) n-Decane	24.98	57	28105	0.601	ng	66
84) Benzyl Chloride	25.04	91	1164	N.D.	✓	
85) 1,3-Dichlorobenzene	25.07	146	542	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	99766	1.936	ng	99
87) sec-Butylbenzene	25.22	105	2499	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	23797	0.266	ng	85
89) 1,2,3-Trimethylbenzene	25.40	105	42209	0.507	ng	94
90) 1,2-Dichlorobenzene	25.58	146	634	N.D.	✓	
91) d-Limonene	25.57	68	11529	0.340	ng	97
92) 1,2-Dibromo-3-Chloropr...	26.24	157	56	N.D.	✓	
93) n-Undecane	26.50	57	172509	3.524	ng	71
94) 1,2,4-Trichlorobenzene	27.62	180	735	N.D.	✓	
95) Naphthalene	27.77	128	127612	1.138	ng	94
96) n-Dodecane	27.74	57	214927	4.415	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	186	N.D.	✓	

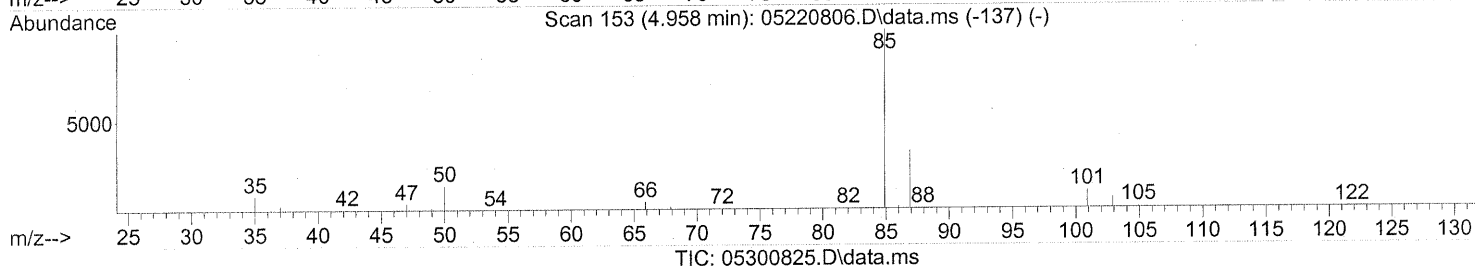
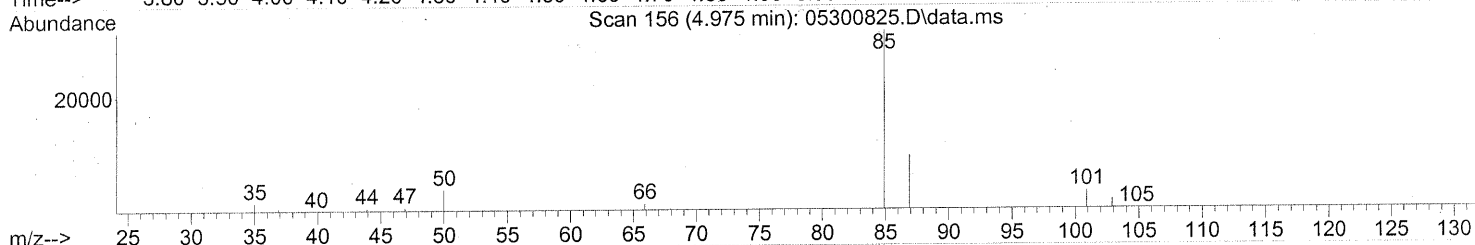
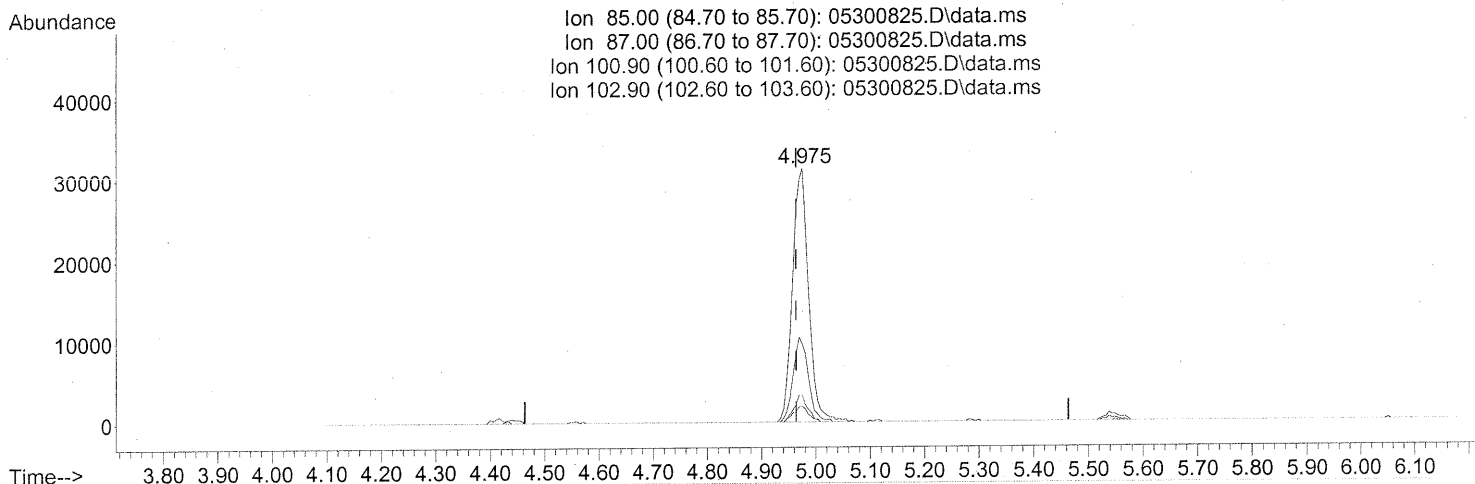
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*406/05/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:08:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 1.25ng

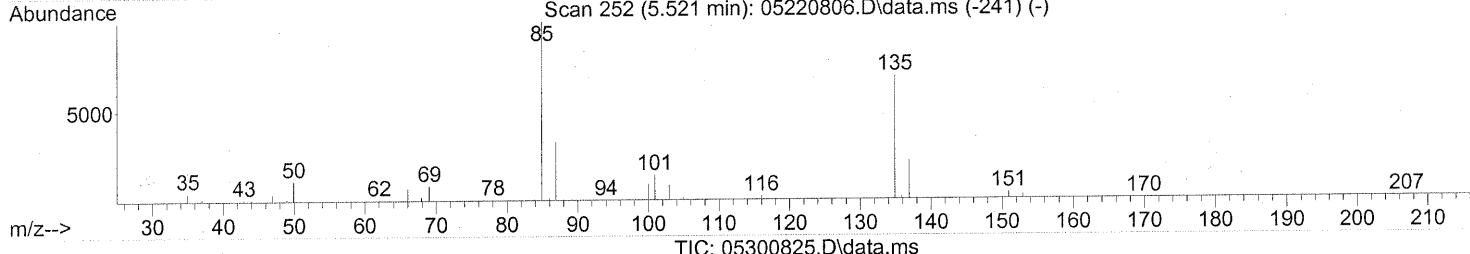
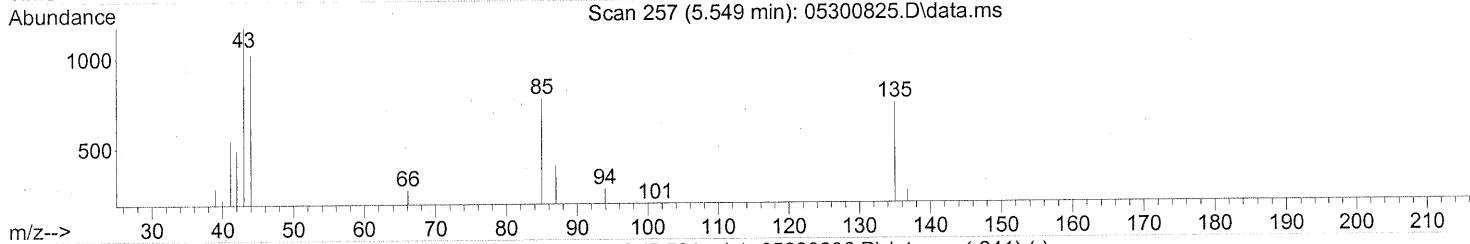
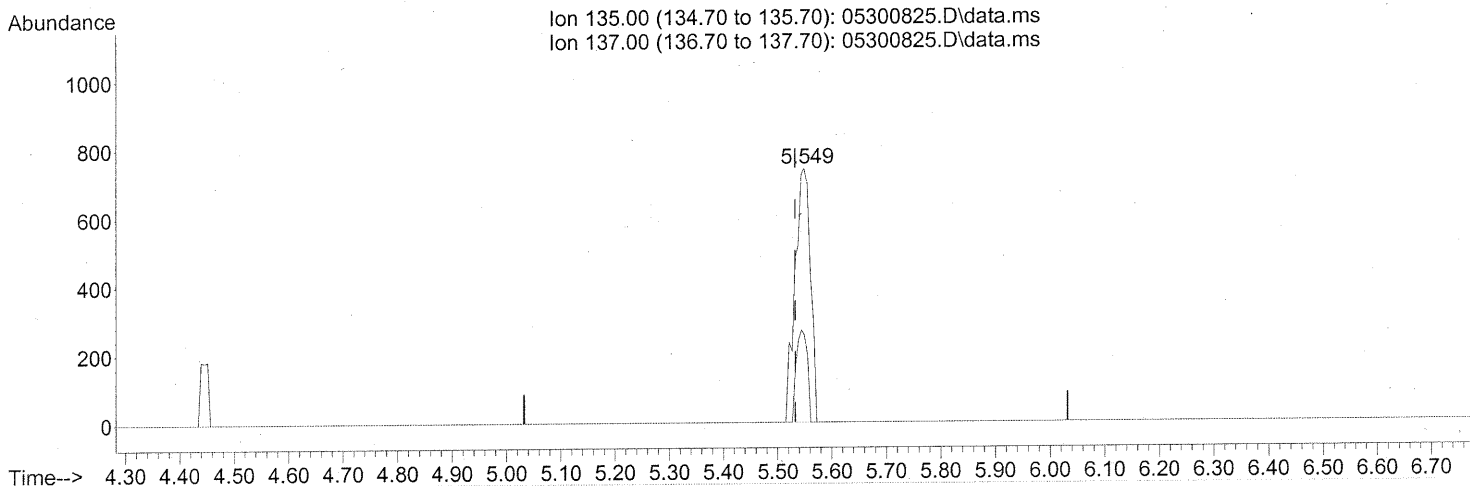
response 64526

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.66
100.90	9.30	9.01
102.90	6.00	5.72

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:08:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)

5.549min (+0.017) 0.06ng

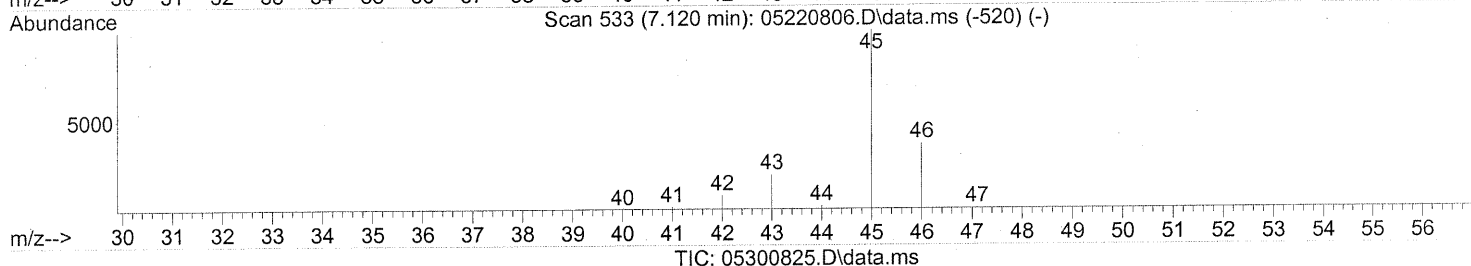
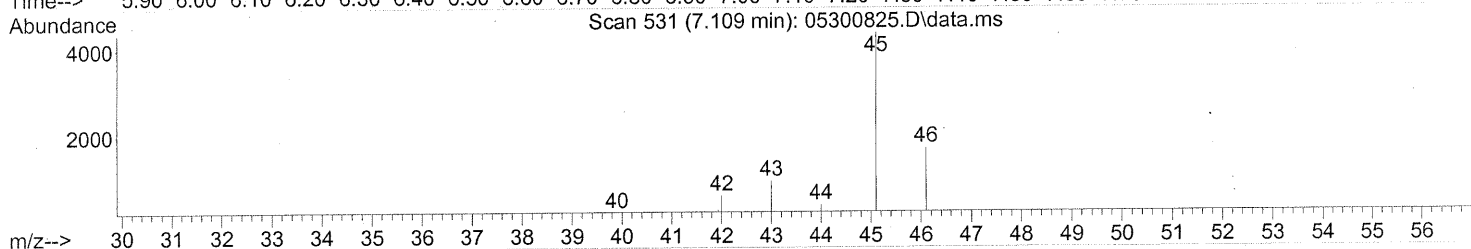
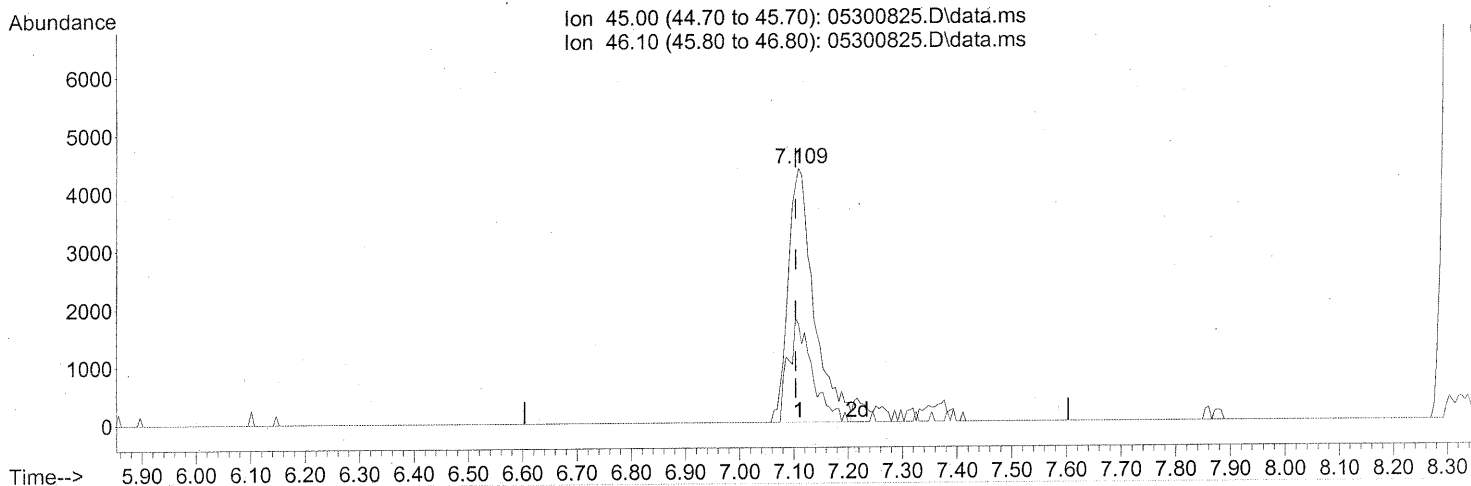
response 1469

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	25.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 05:13:46 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (+0.006) 0.77ng

response 14428

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.97
0.00	0.00	0.00
0.00	0.00	0.00

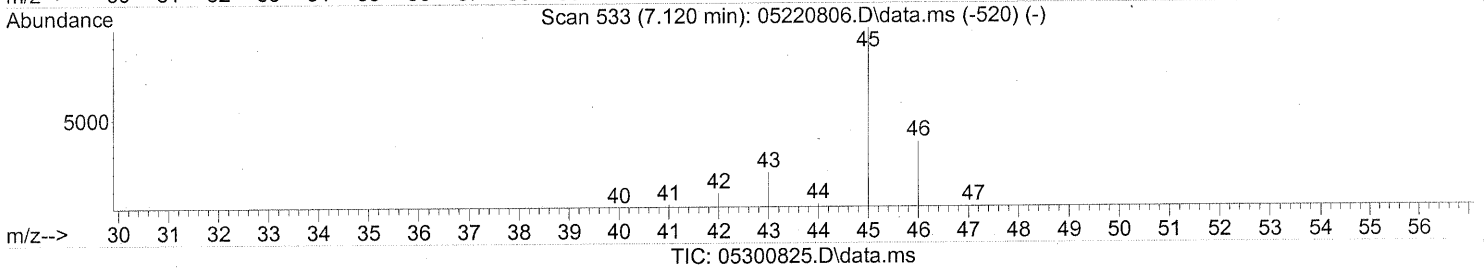
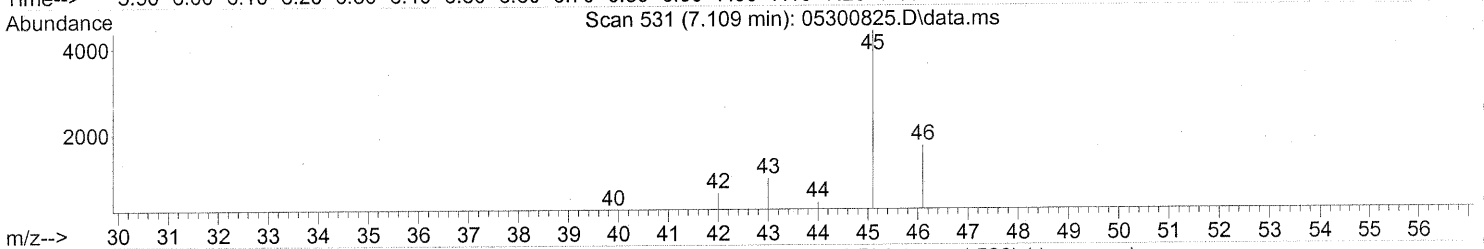
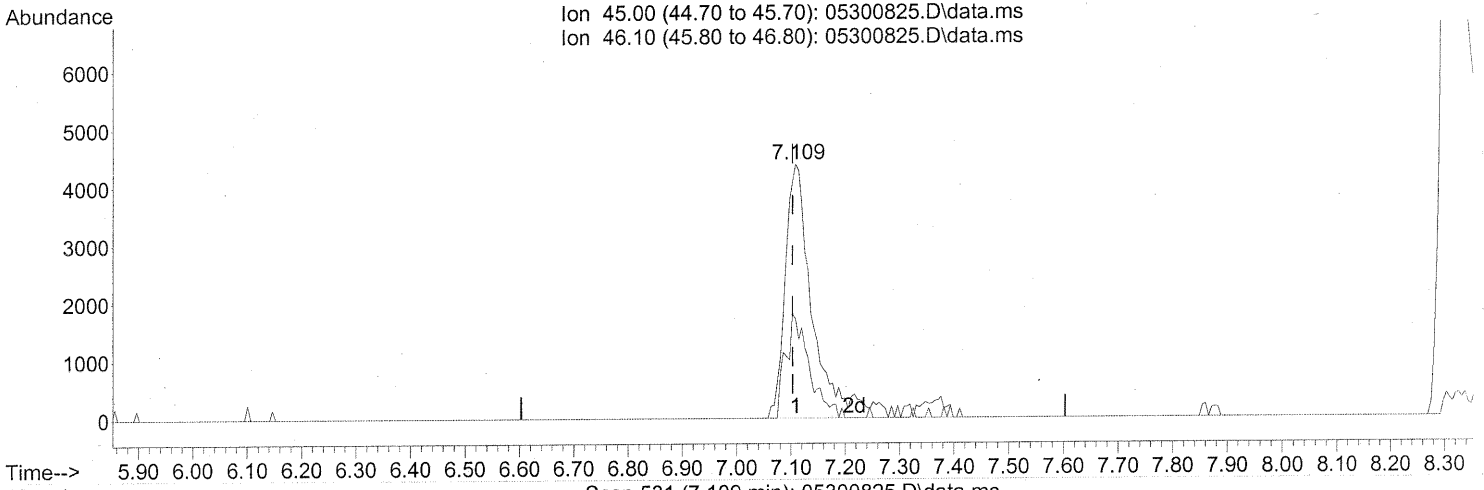
TAILING



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 05:13:46 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.109min (+0.006) 0.90ng m  
 response 16791

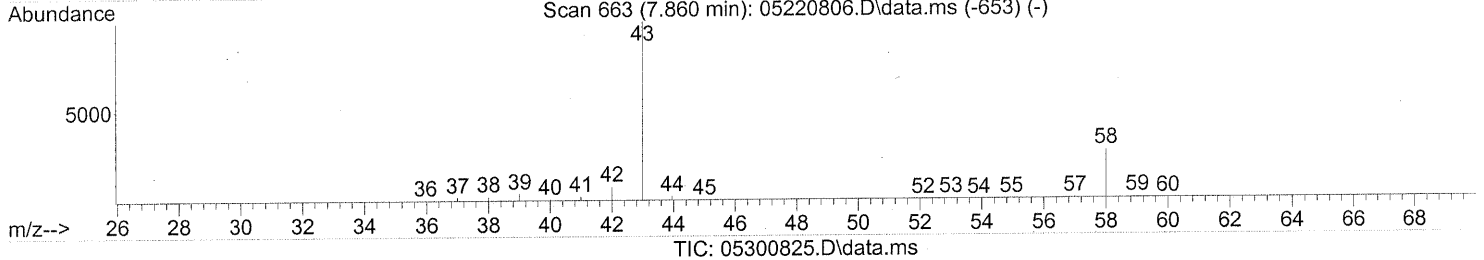
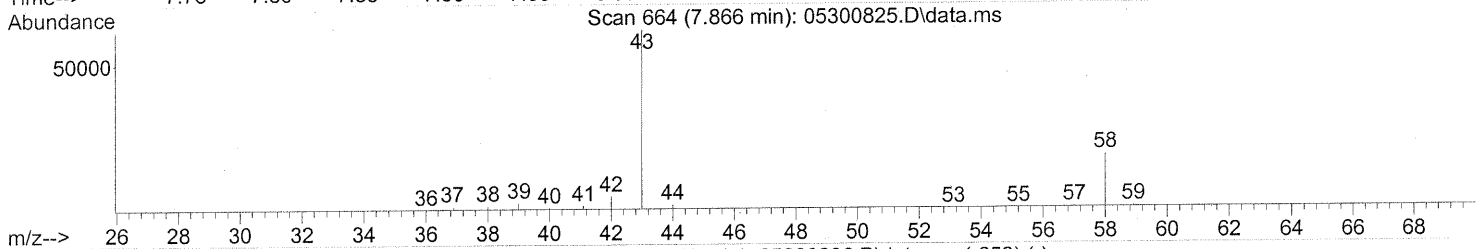
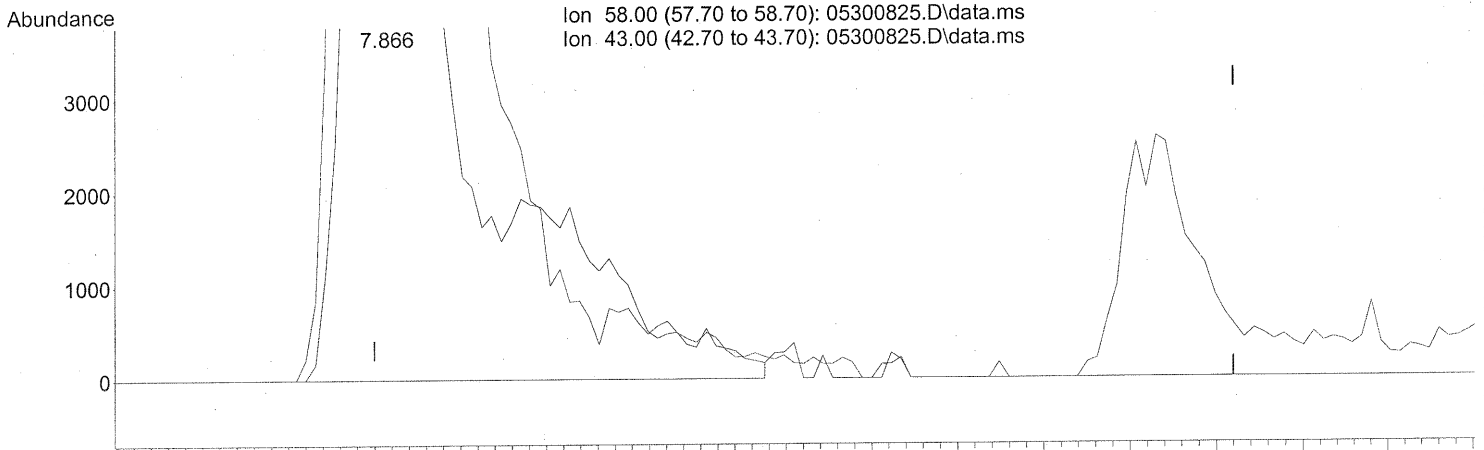
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.63
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
 6/2/08  
 E. 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:08:37 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)  
7.866min (+0.006) 2.97ng  
response 56701

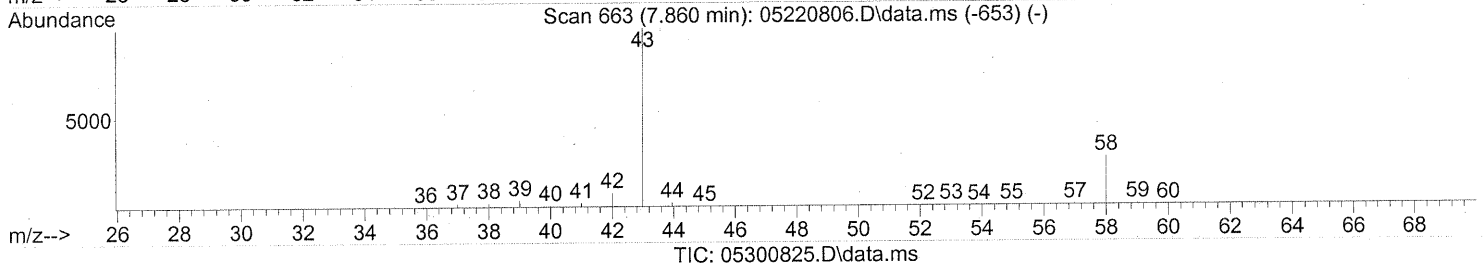
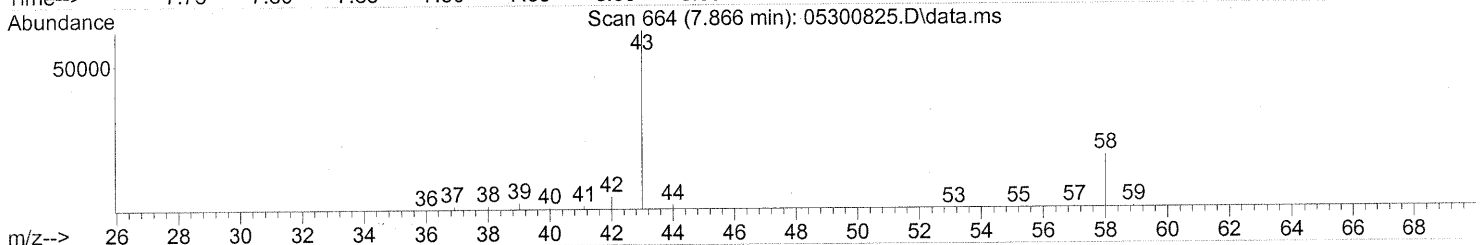
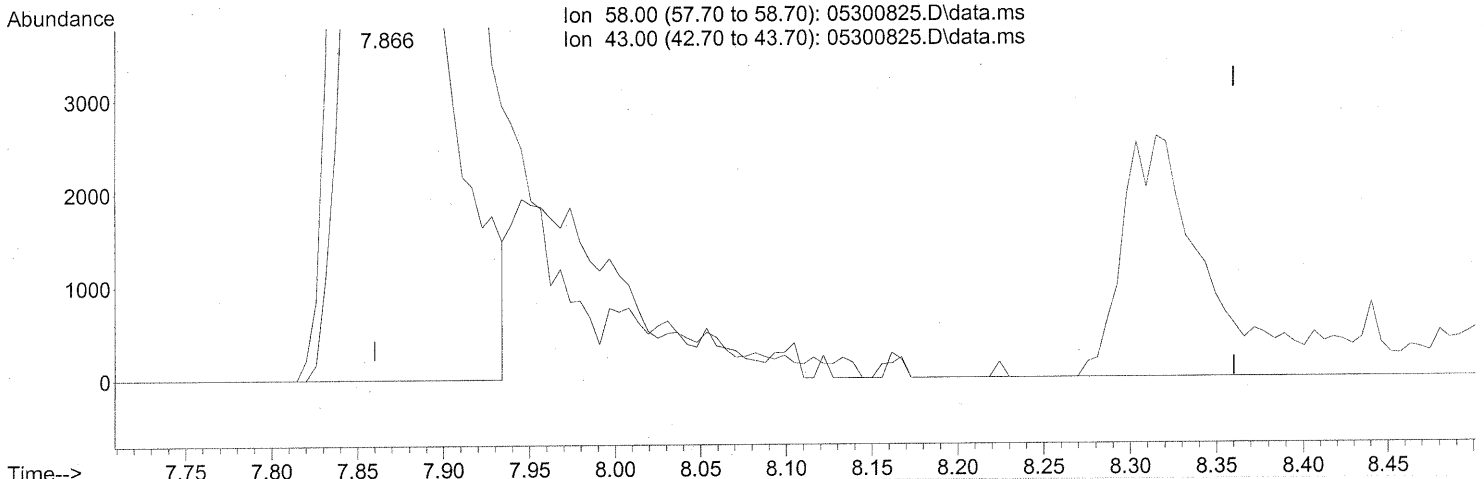
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	298.10
0.00	0.00	0.00
0.00	0.00	0.00

EXCLUDED INTERF. PEAK  
F06/05/08  
6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:08:37 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)  
 7.866min (+0.006) 2.52ng m  
 response 48064

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	351.67#
0.00	0.00	0.00
0.00	0.00	0.00

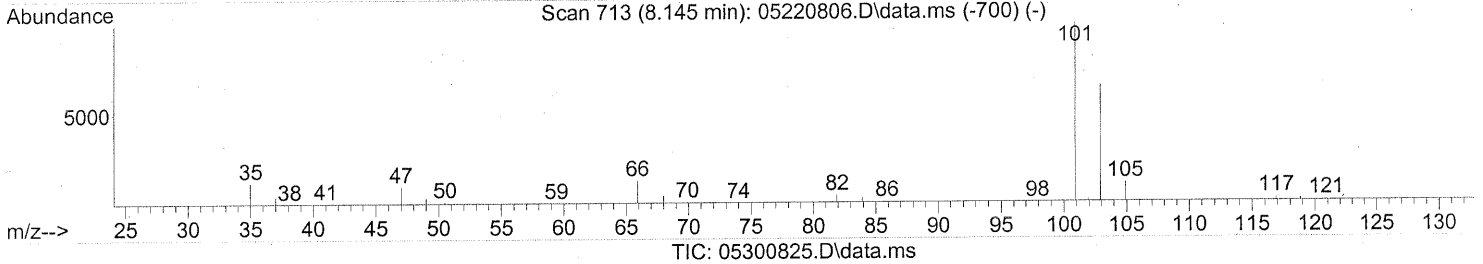
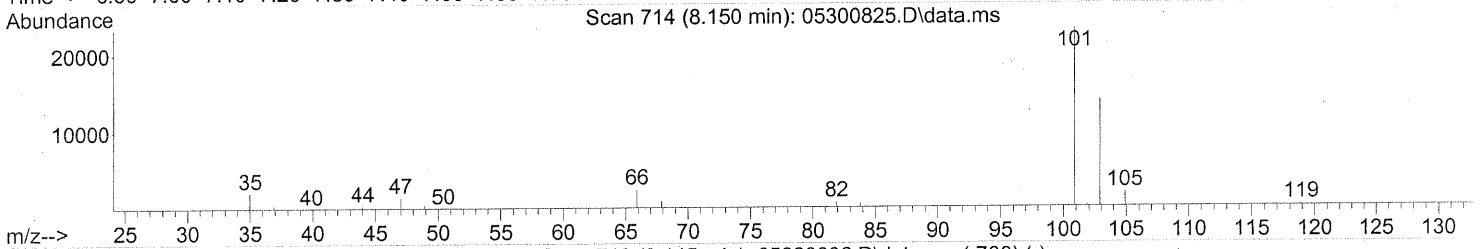
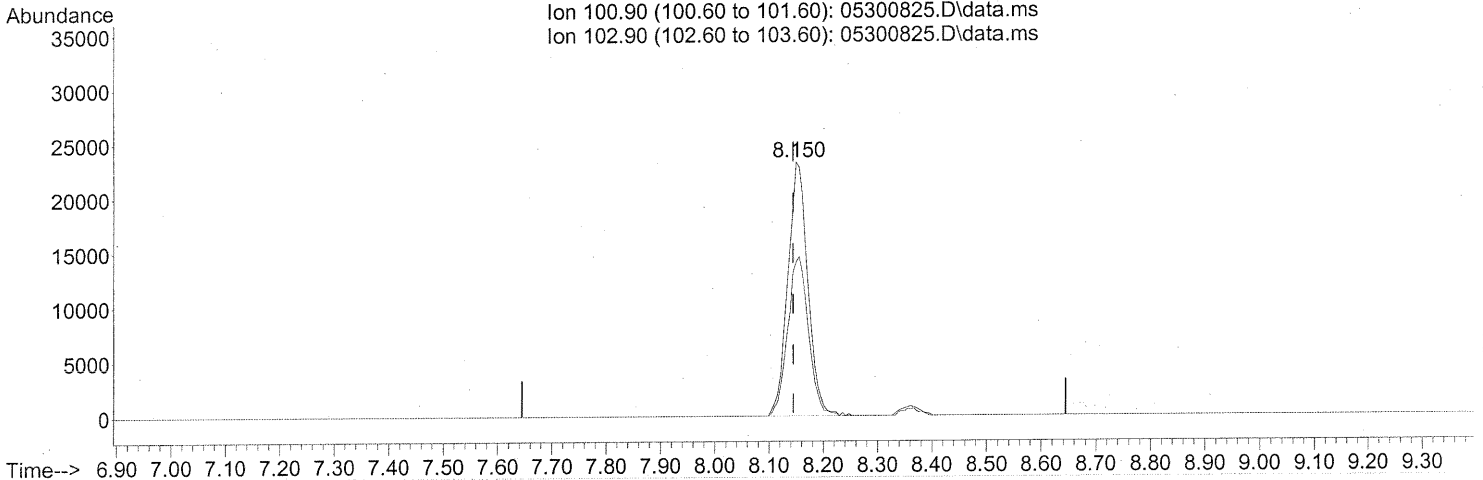
INTERF. PEAK

*C. 6/9/08*  
*R. 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.150min (+0.006) 1.34ng

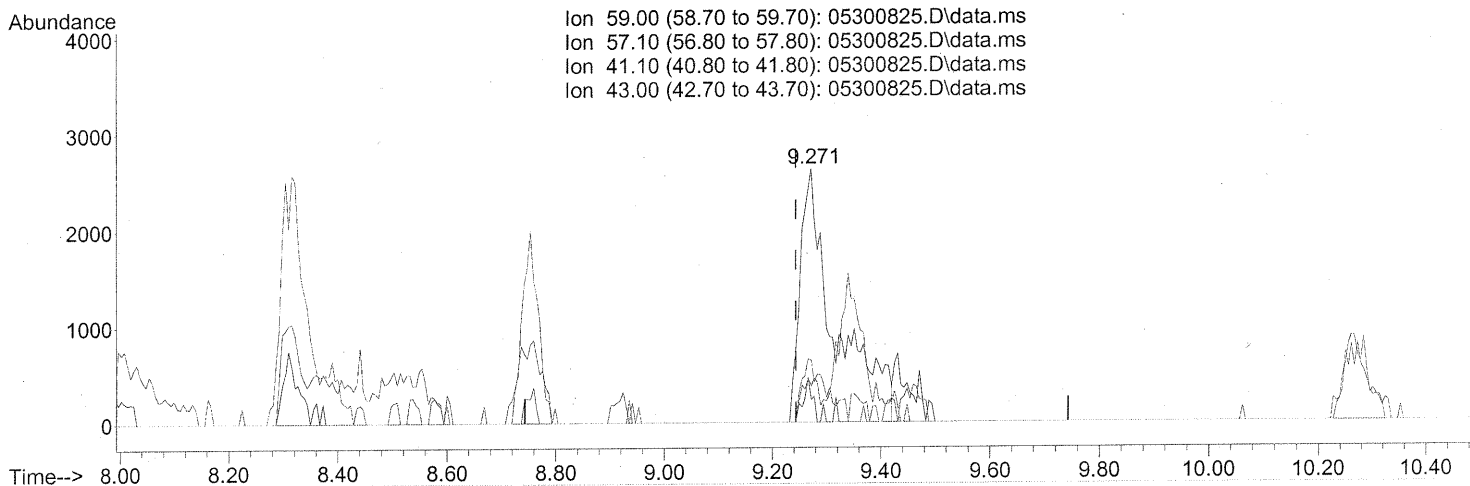
response 59369

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.19
0.00	0.00	0.00
0.00	0.00	0.00

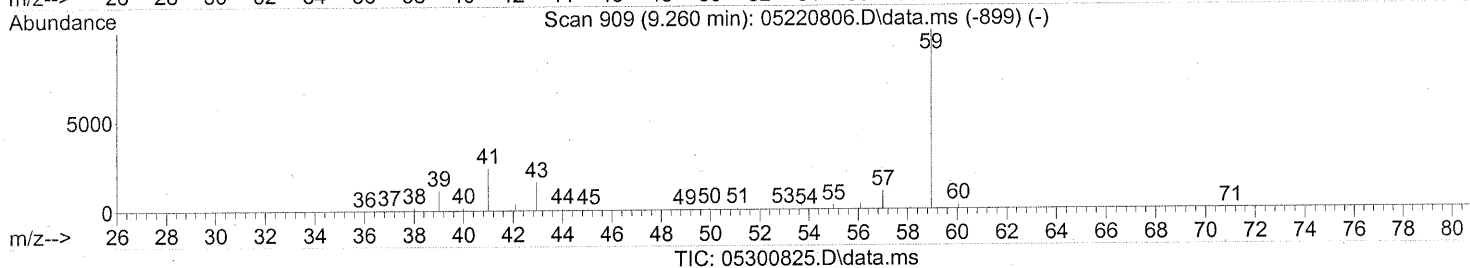
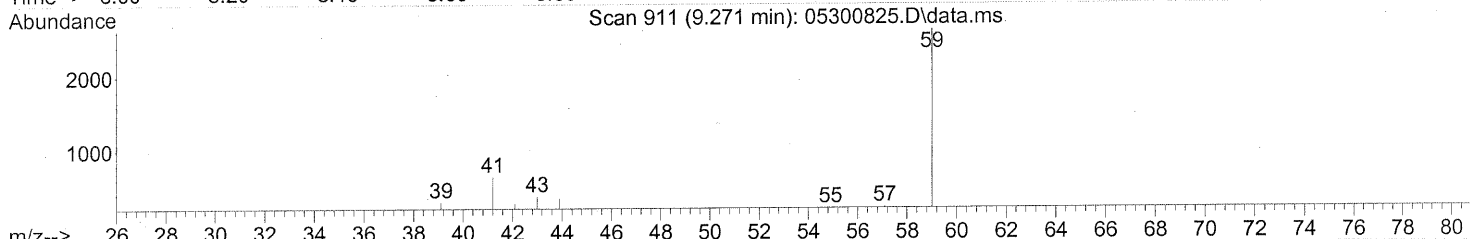
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 05:13:46 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Ion 59.00 (58.70 to 59.70): 05300825.D\data.ms  
Ion 57.10 (56.80 to 57.80): 05300825.D\data.ms  
Ion 41.10 (40.80 to 41.80): 05300825.D\data.ms  
Ion 43.00 (42.70 to 43.70): 05300825.D\data.ms



(18) tert-Butanol (T)  
9.271min (+0.028) 0.23ng  
response 11765

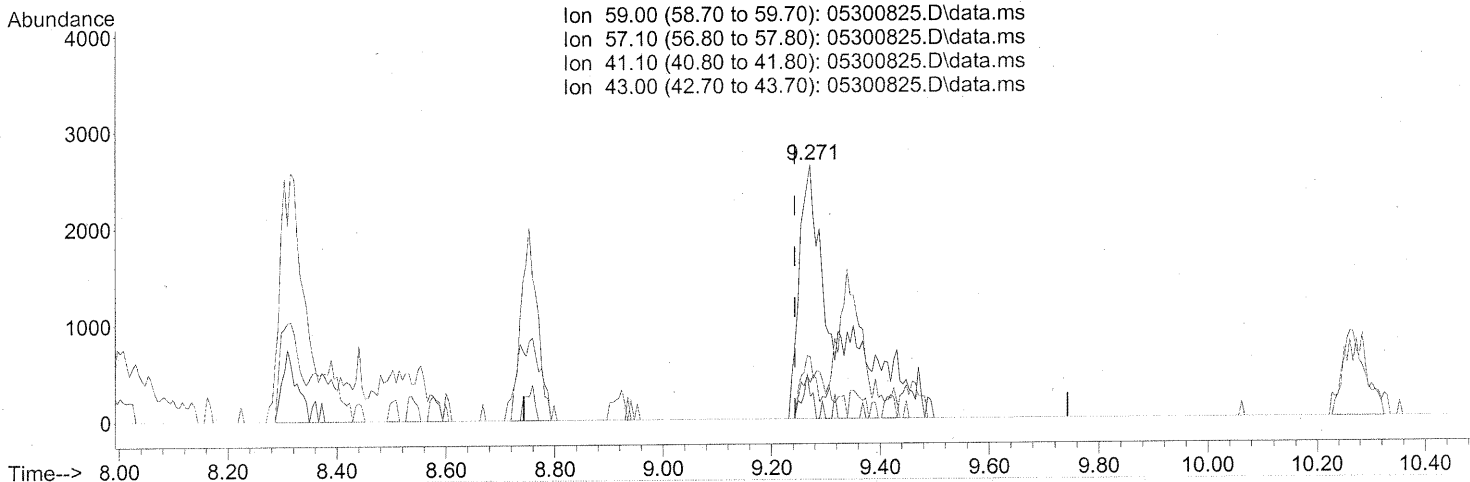
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	4.50
41.10	20.10	15.32
43.00	12.30	9.38

SPLIT PEAK/TAILING

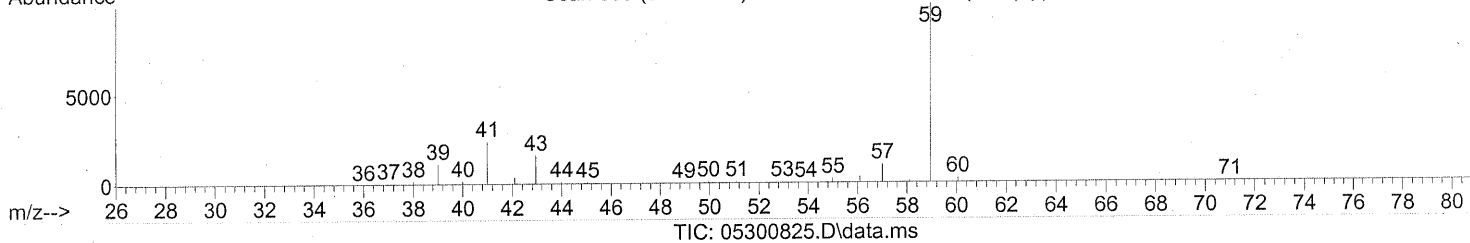
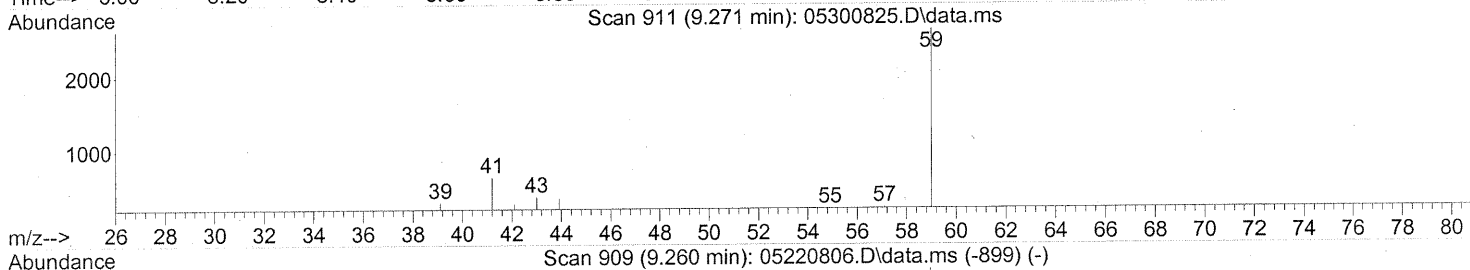
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 31 05:13:46 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 59.00 (58.70 to 59.70): 05300825.D\data.ms  
 Ion 57.10 (56.80 to 57.80): 05300825.D\data.ms  
 Ion 41.10 (40.80 to 41.80): 05300825.D\data.ms  
 Ion 43.00 (42.70 to 43.70): 05300825.D\data.ms



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.26ng m  
 response 13252

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.99
41.10	20.10	13.60
43.00	12.30	8.33

INT. THE WHOLE PEAK

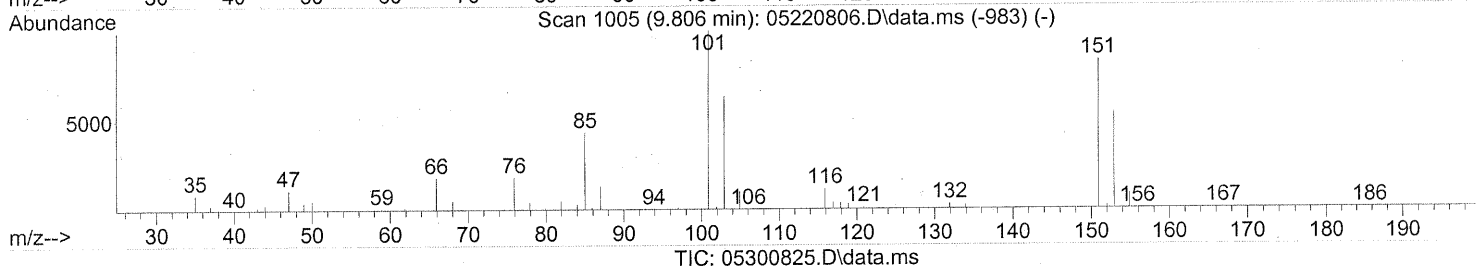
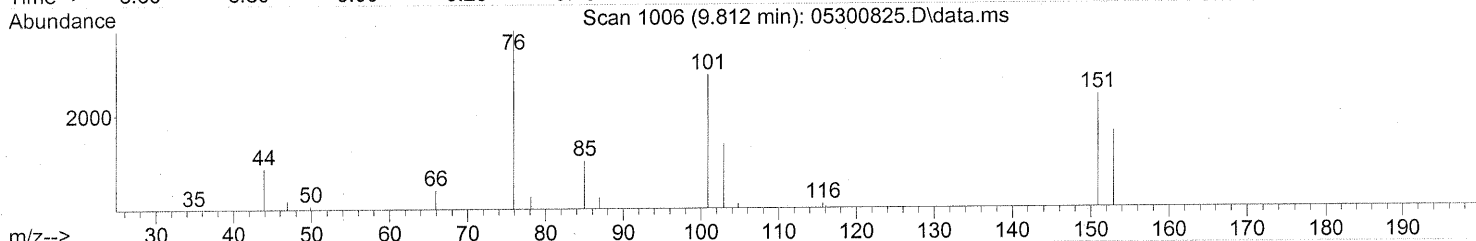
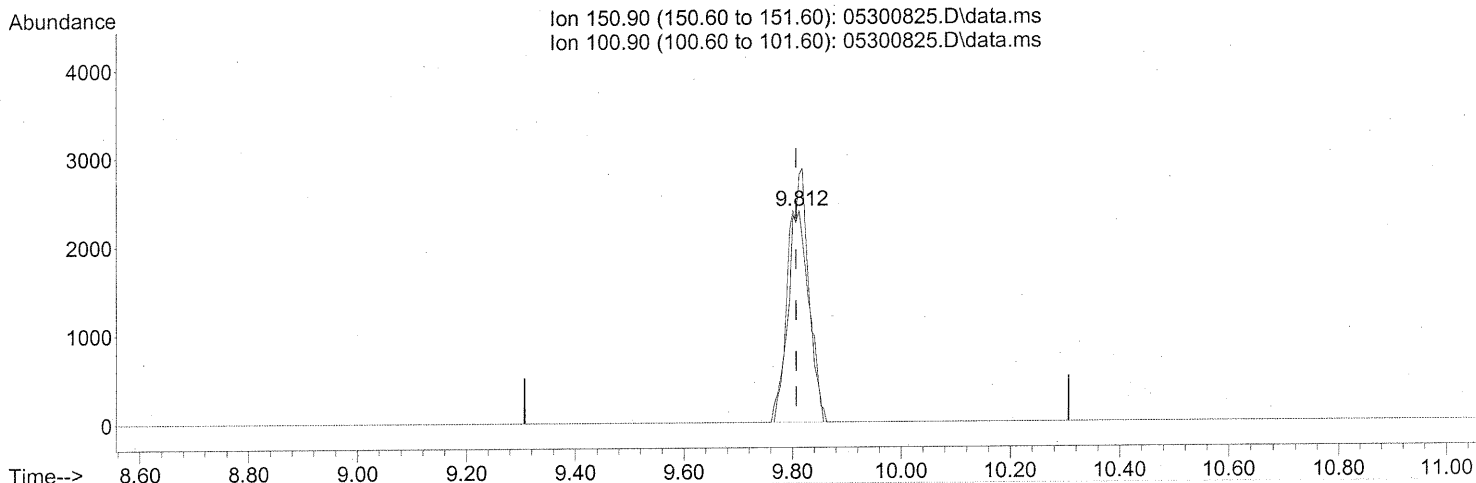
06/05/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.31ng

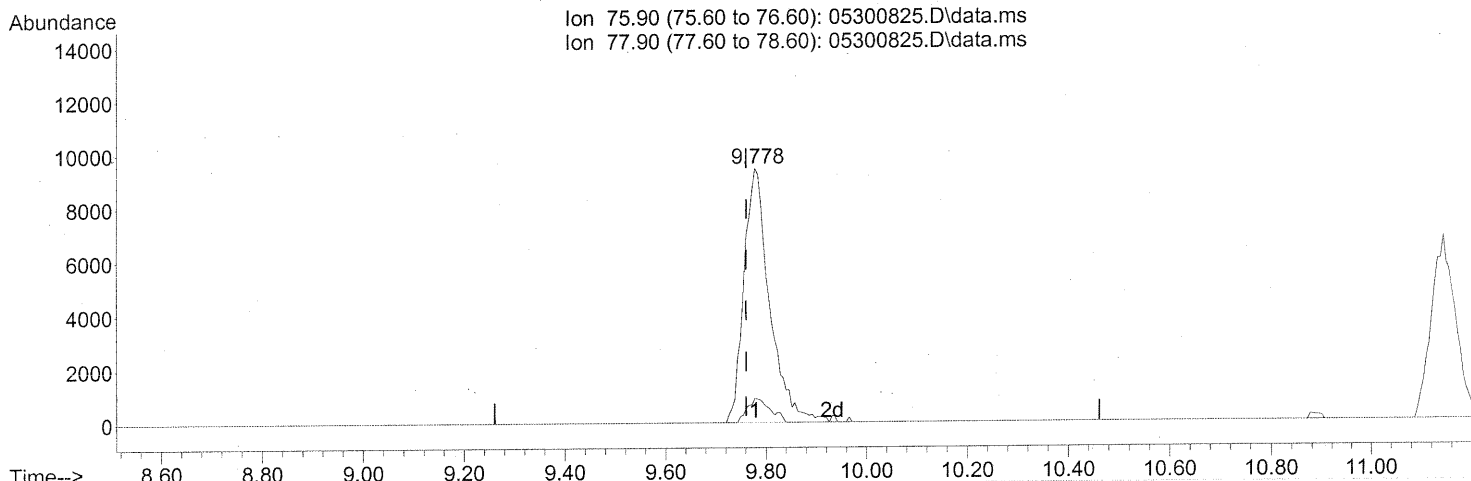
response 6330

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	120.17
0.00	0.00	0.00
0.00	0.00	0.00

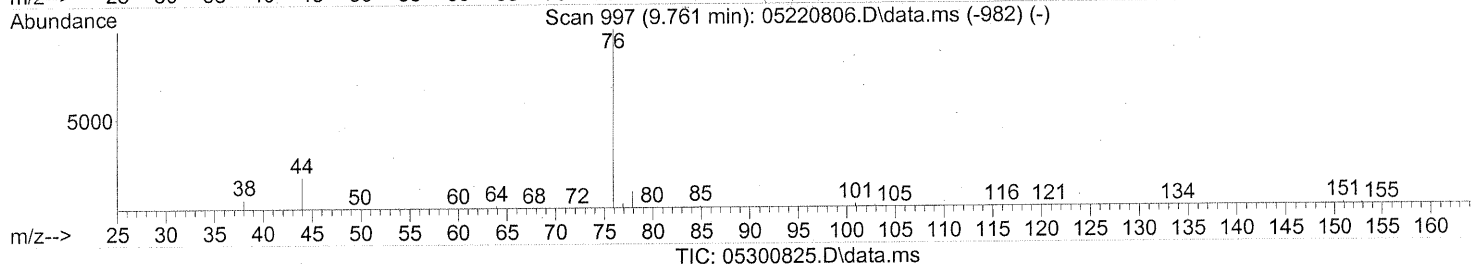
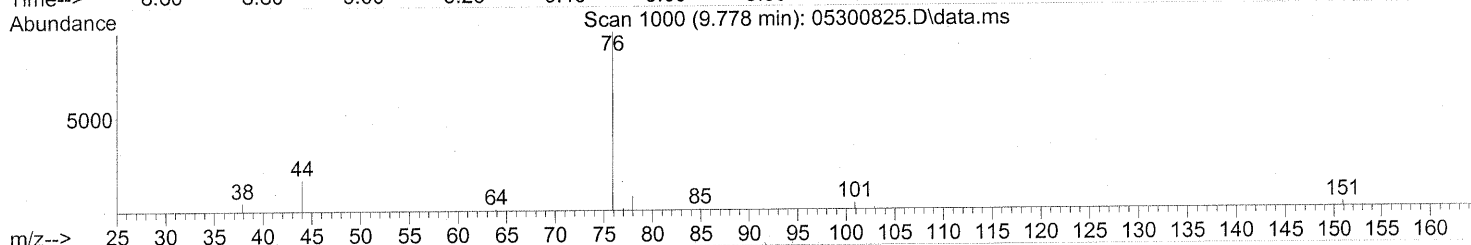
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 75.90 (75.60 to 76.60): 05300825.D\data.ms  
 Ion 77.90 (77.60 to 78.60): 05300825.D\data.ms



(22) Carbon Disulfide (T)

9.778min (+0.017) 0.41ng

response 33506

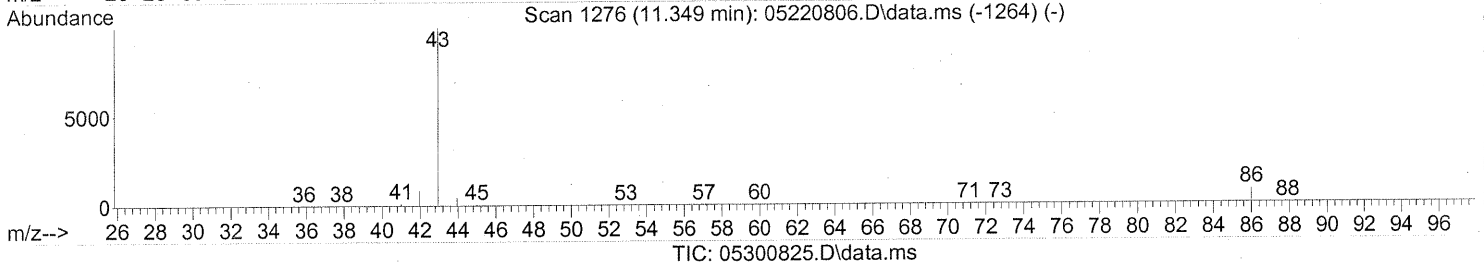
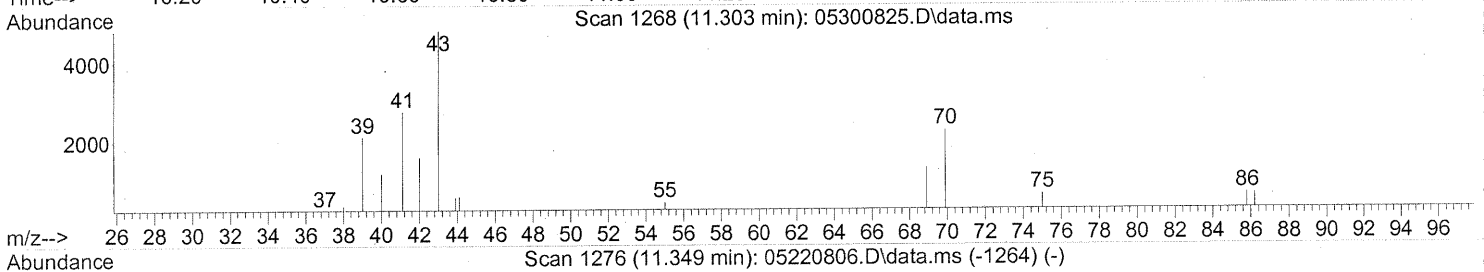
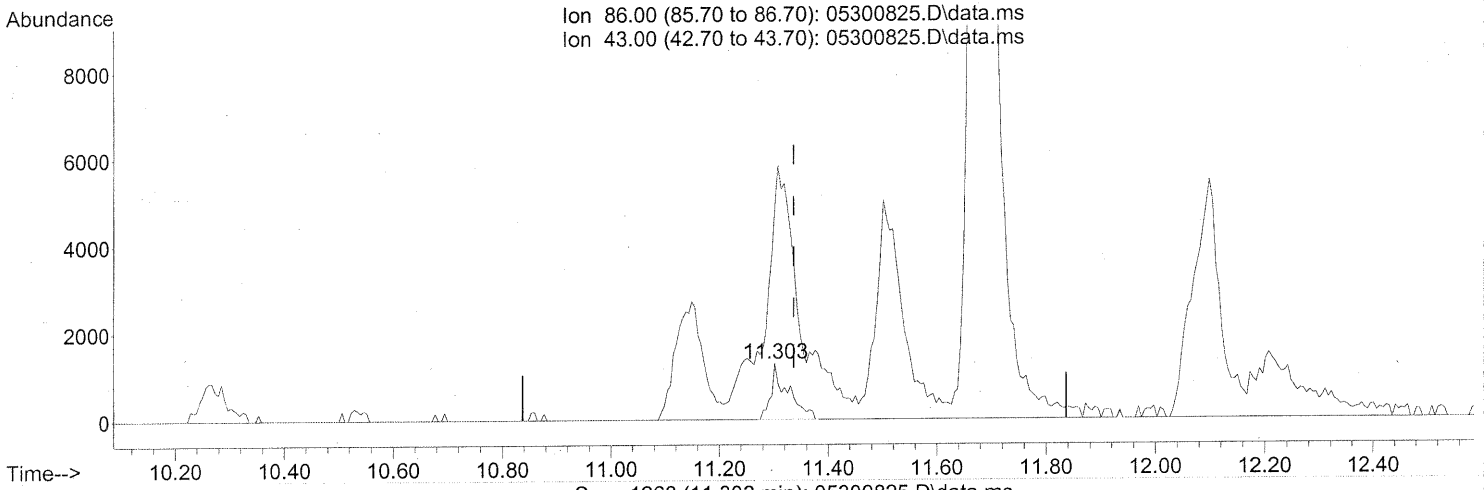
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.46
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



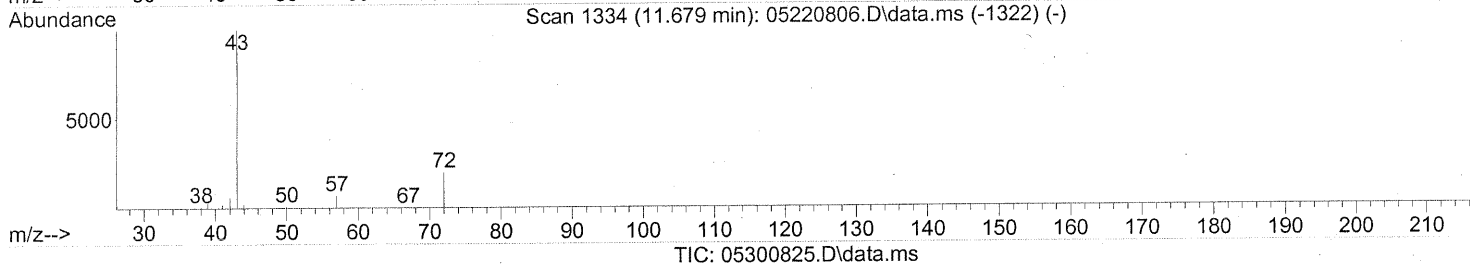
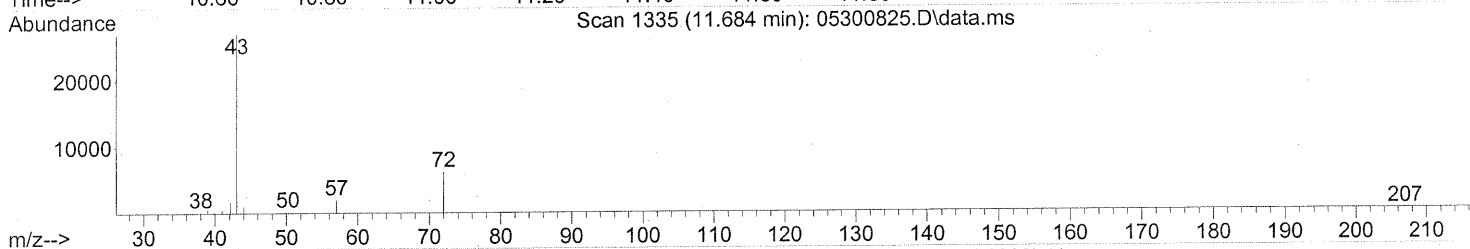
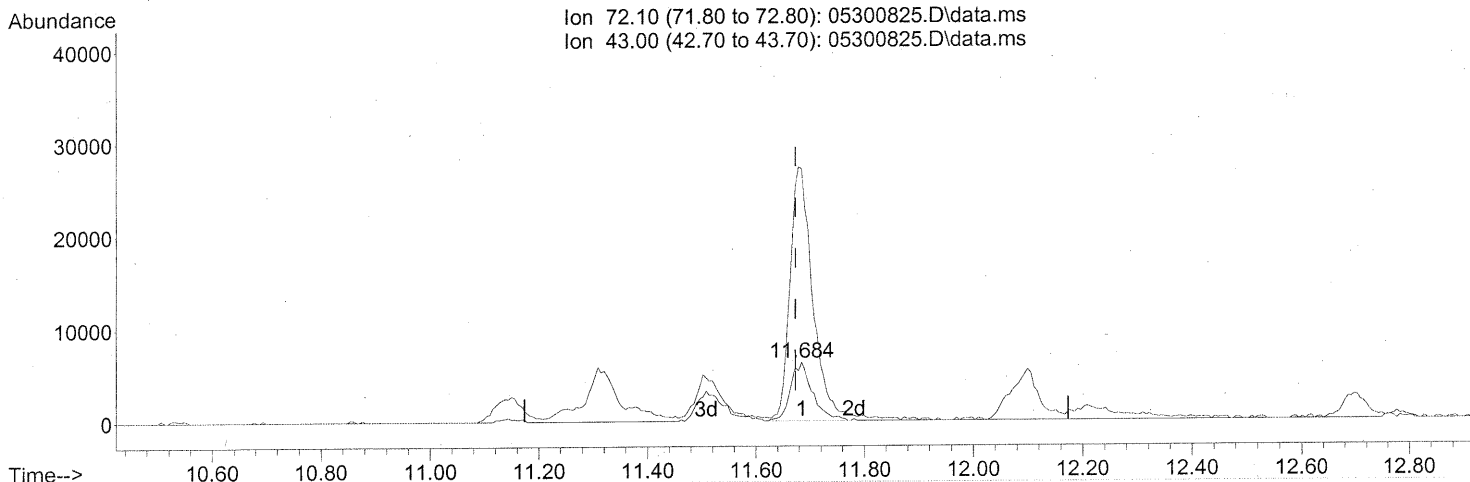
(26) Vinyl Acetate (T)  
 11.303min (-0.034) 0.79ng  
 response 2802

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	815.77#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



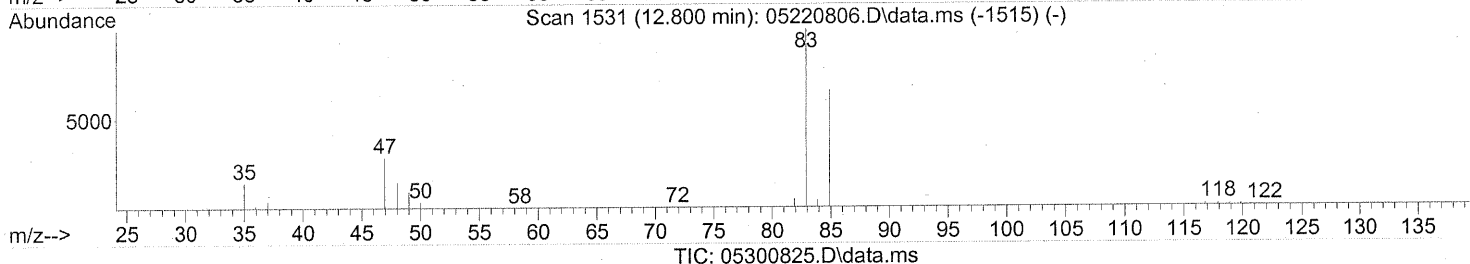
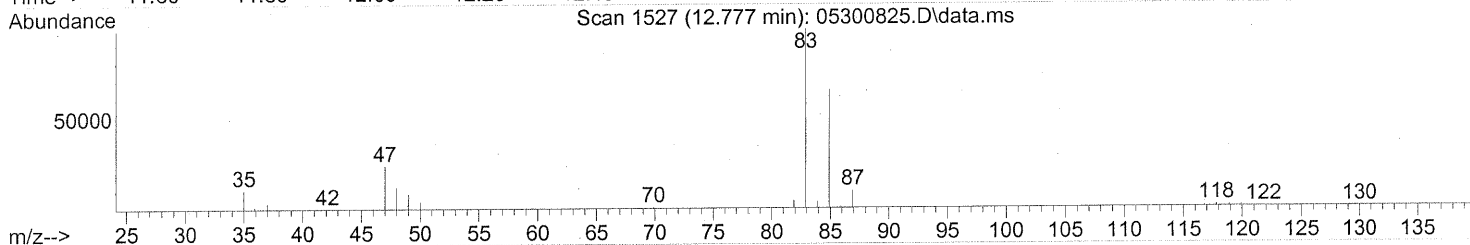
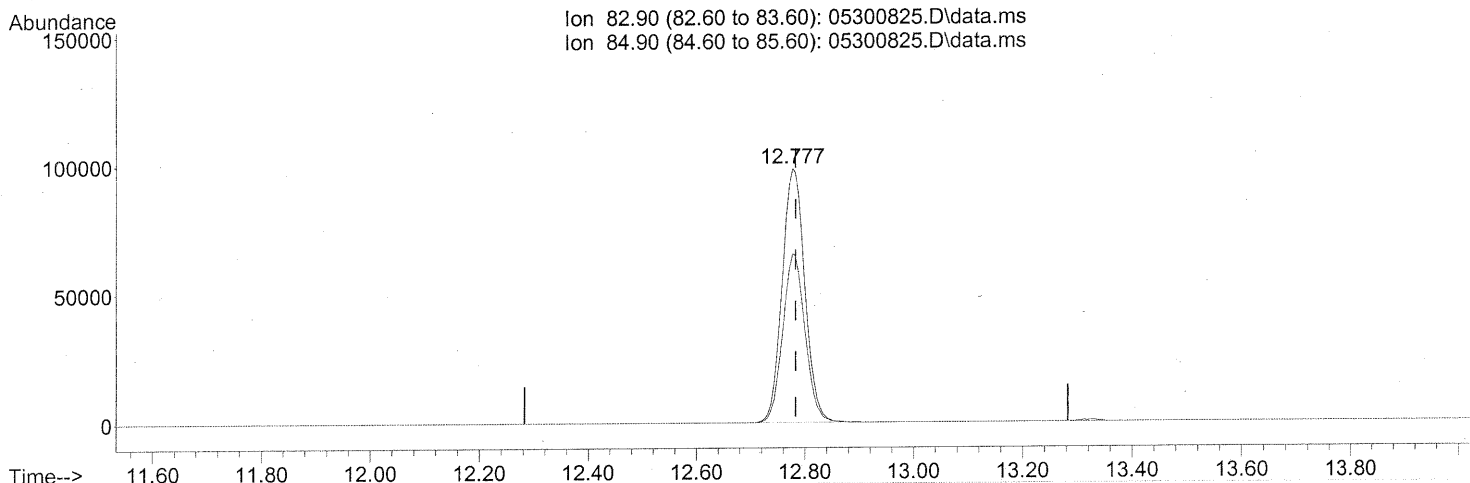
(27) 2-Butanone (T)  
 11.684min (+0.011) 1.25ng  
 response 17476

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	459.22#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 8.82ng

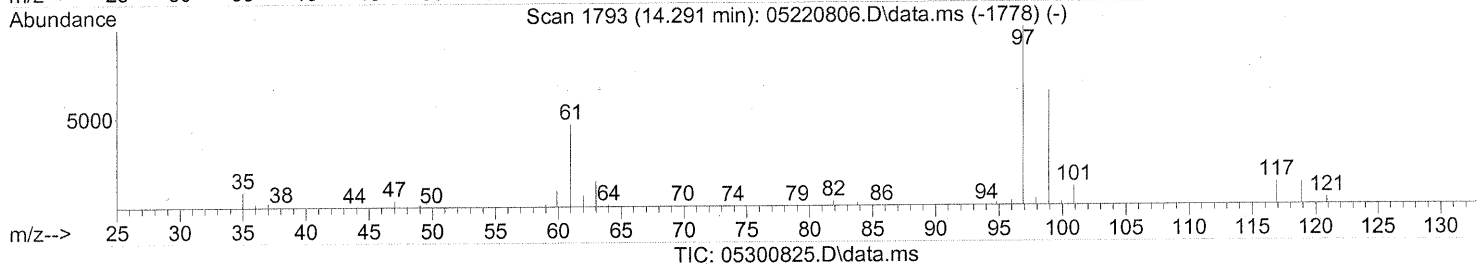
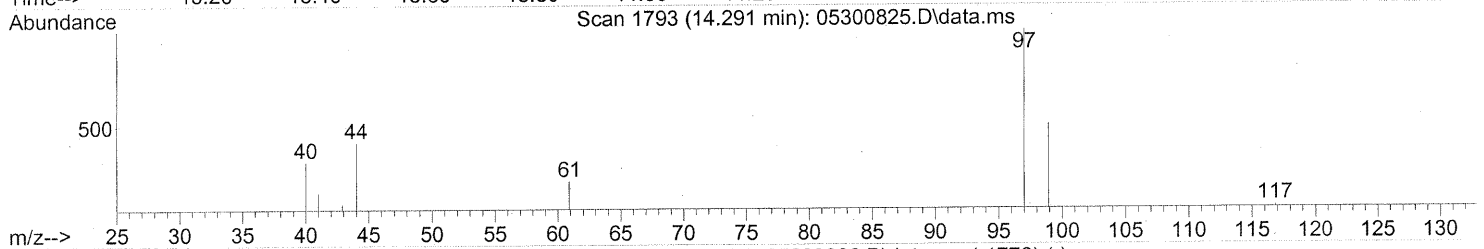
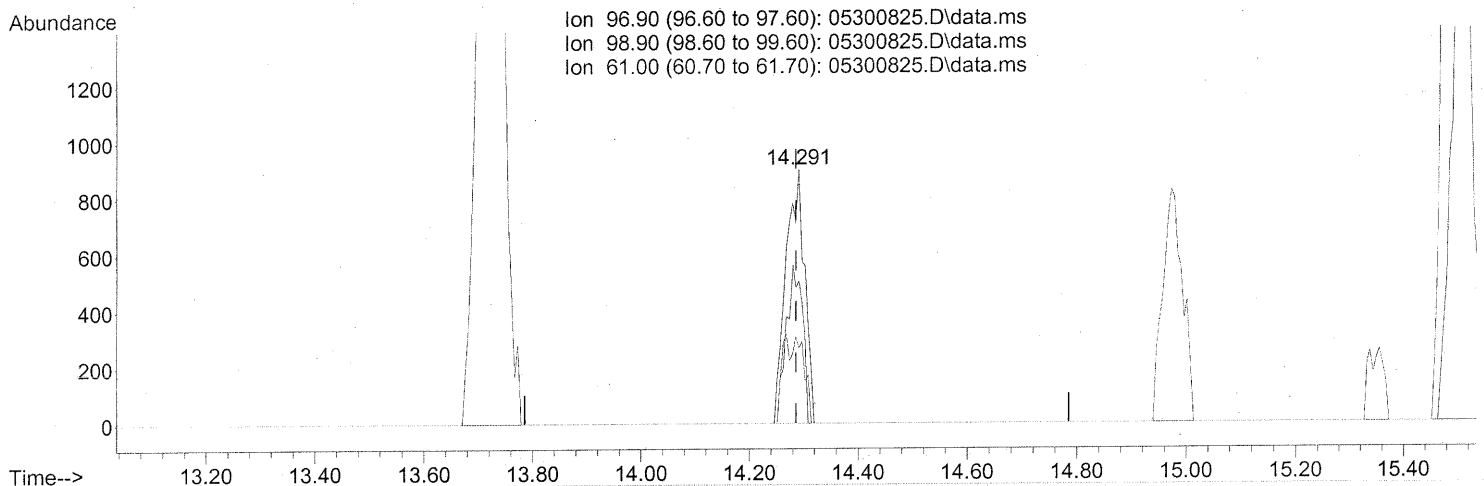
response 285208

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.291min (+0.006) 0.06ng

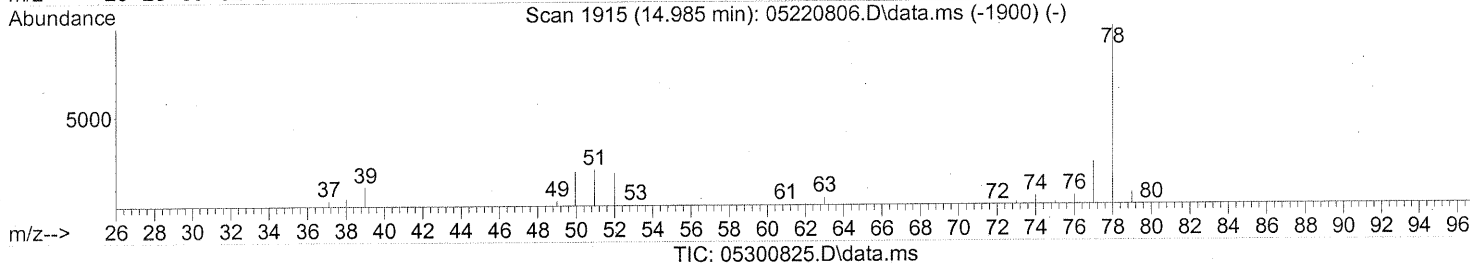
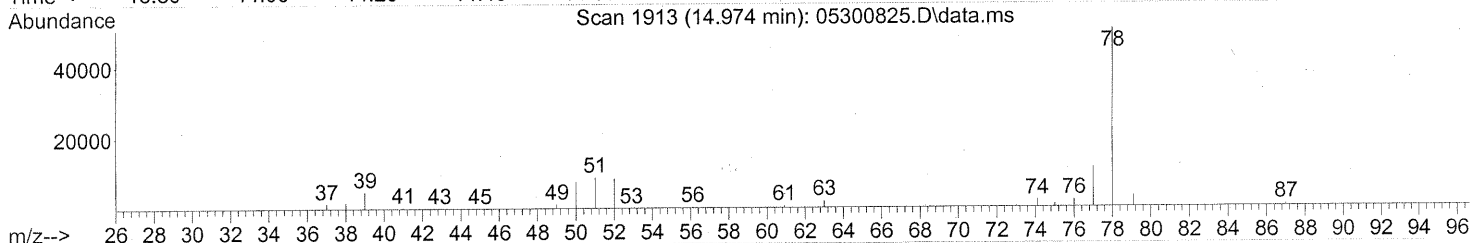
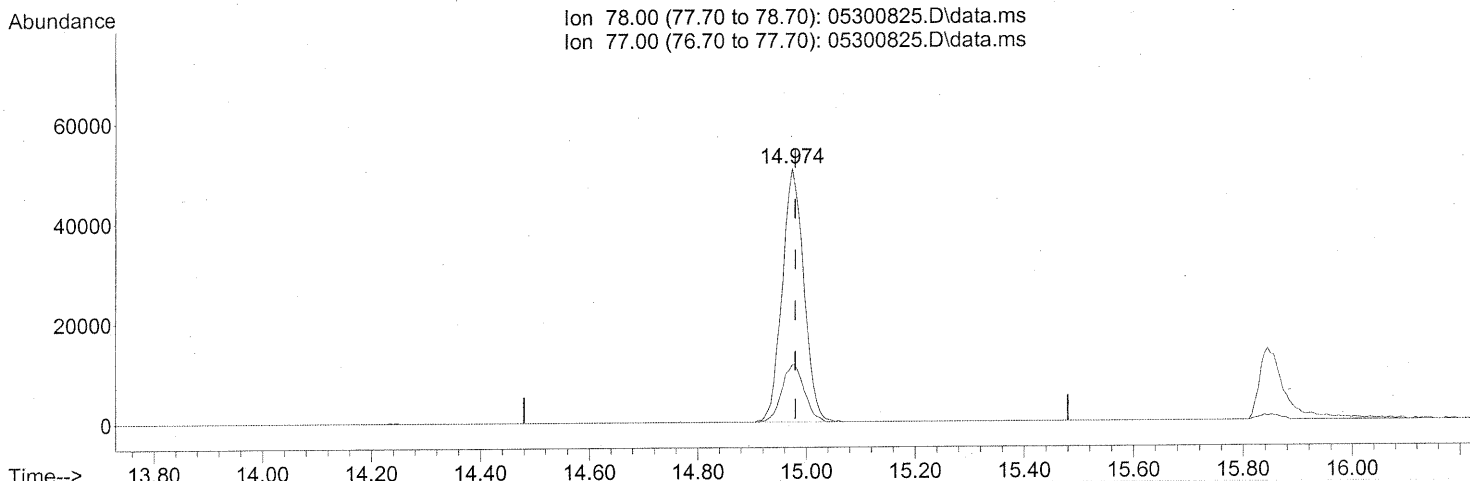
response 2146

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	53.91
61.00	50.50	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(41) Benzene (T)

14.974min (-0.006) 1.80ng

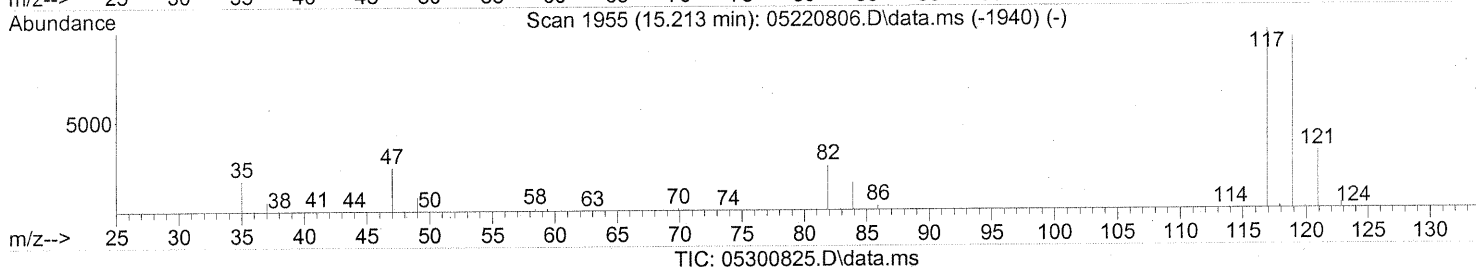
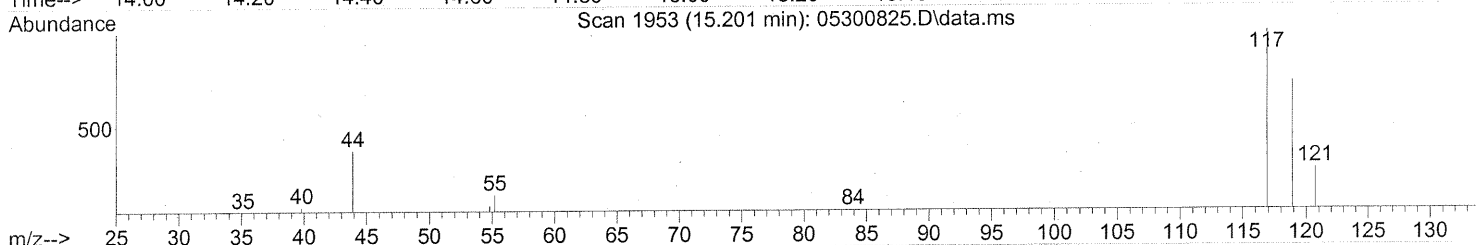
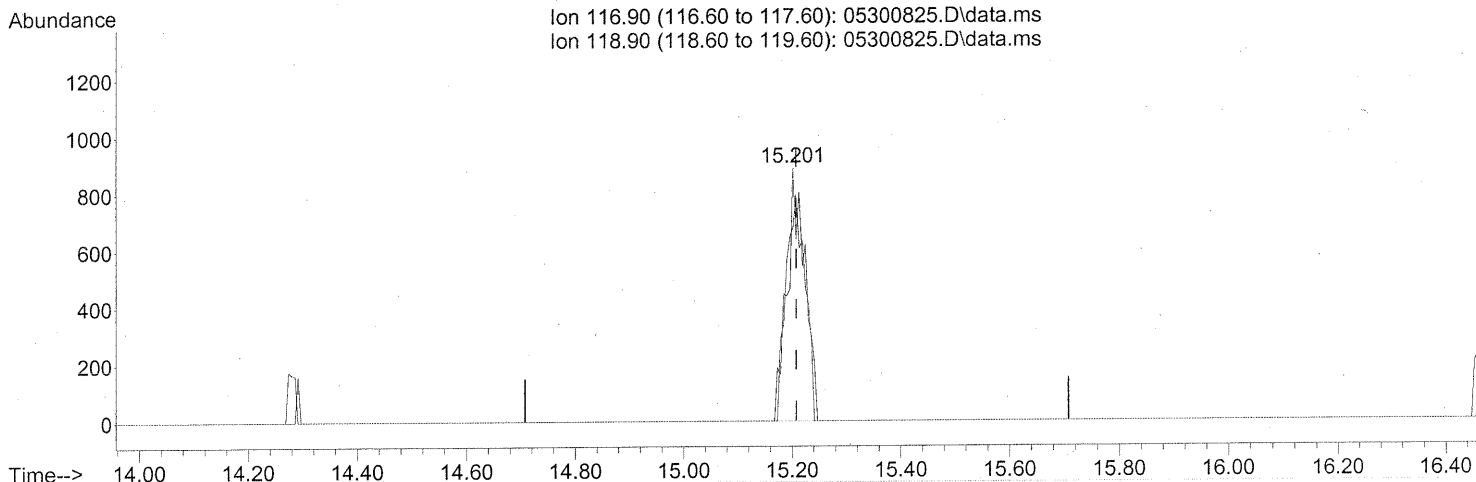
response 140586

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.201min (-0.006) 0.07ng

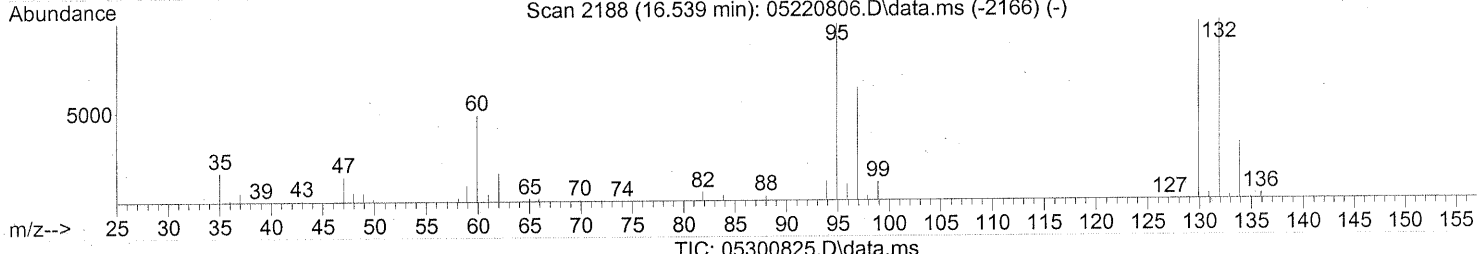
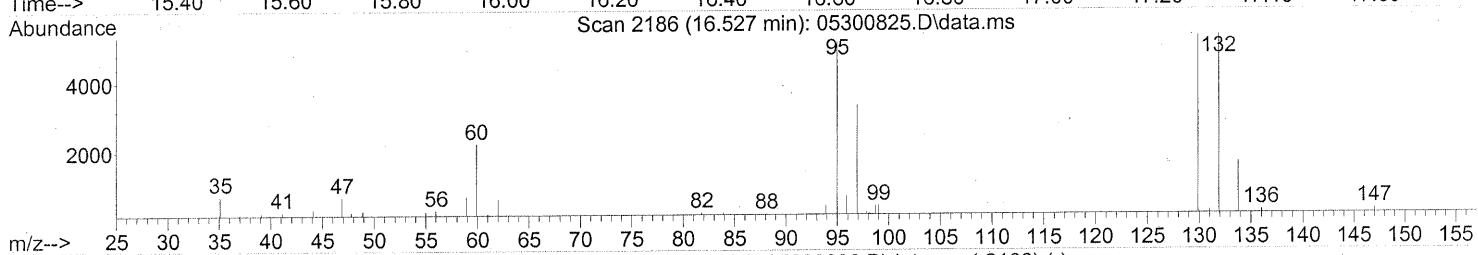
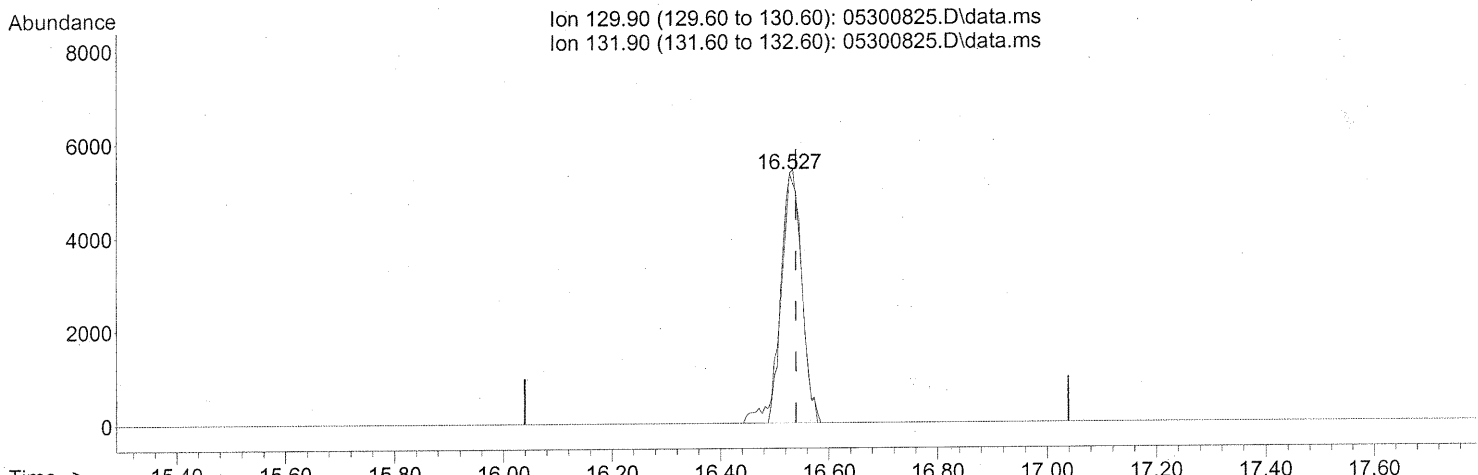
response 2063

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	94.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



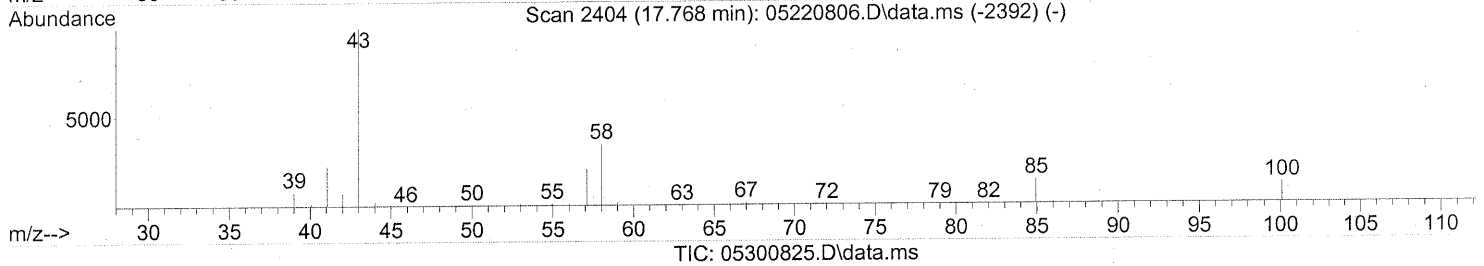
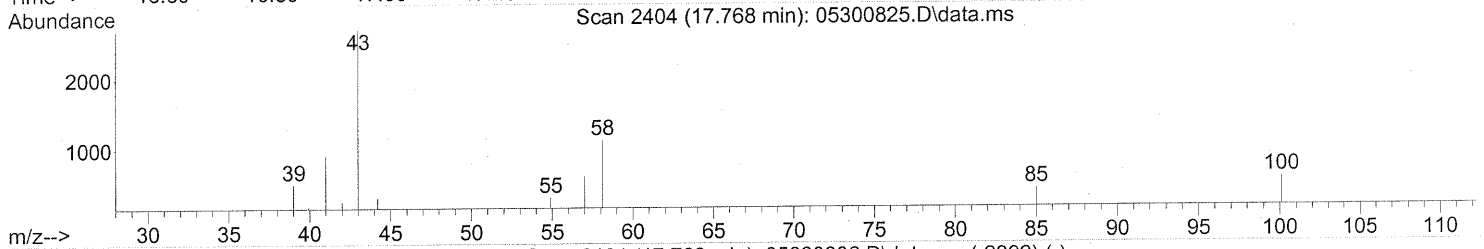
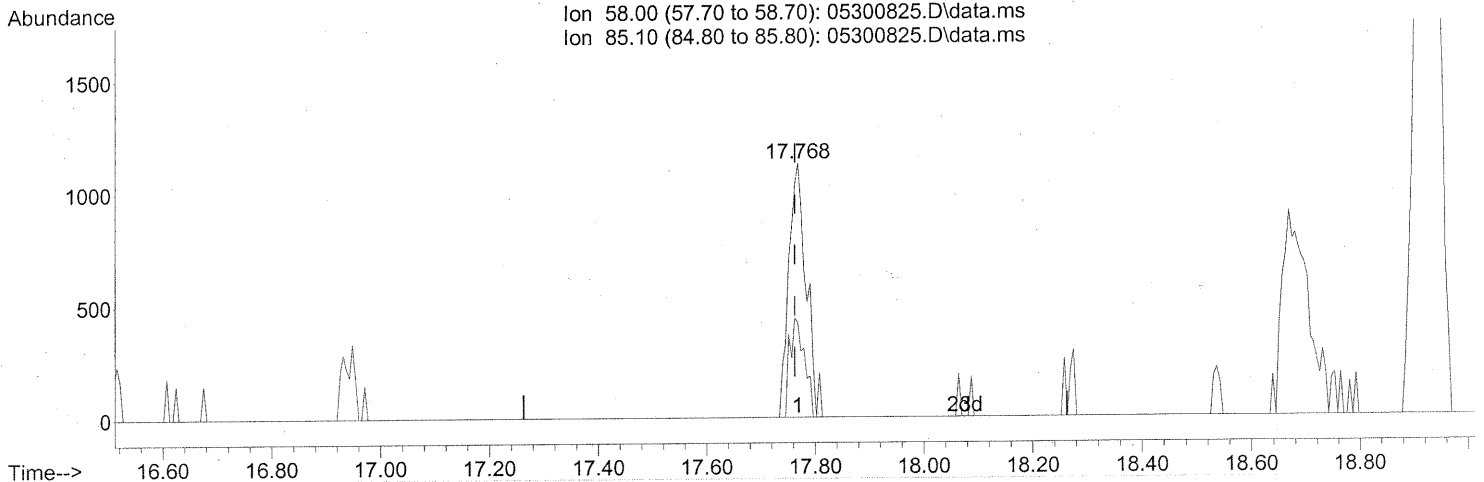
(47) Trichloroethene (T)  
 16.527min (-0.012) 0.58ng  
 response 13872

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	104.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.768min (+0.006) 0.12ng

response 2531

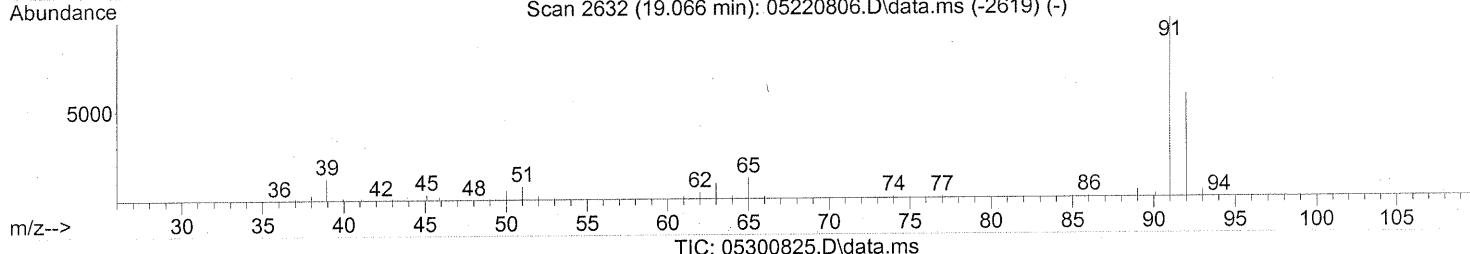
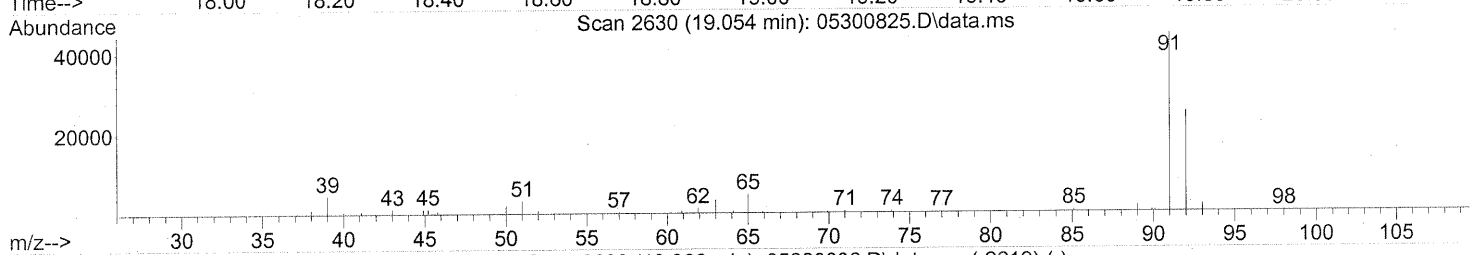
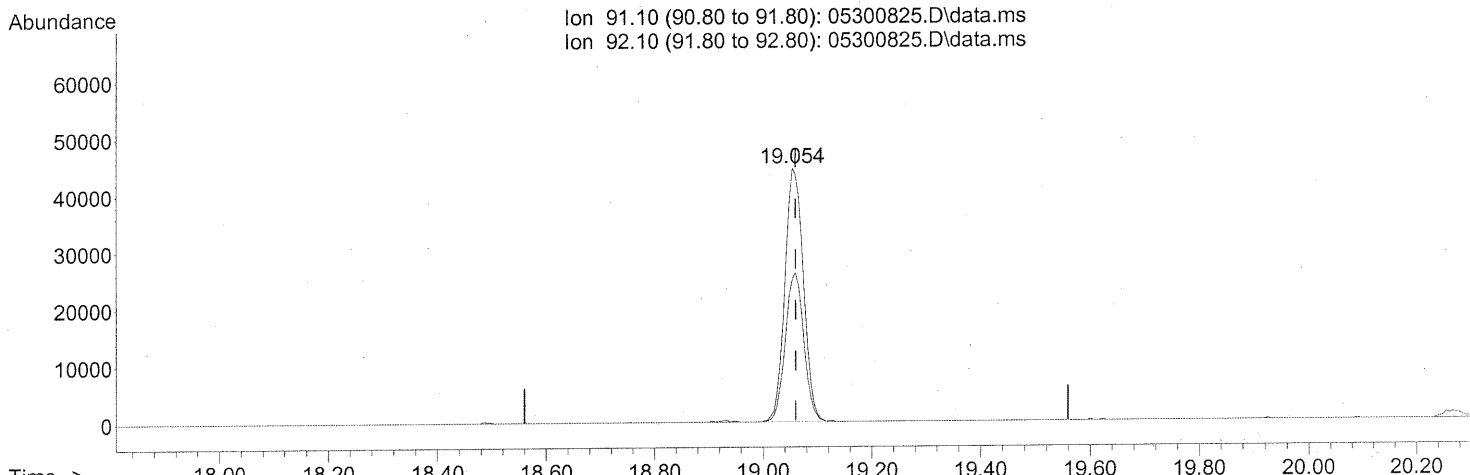
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	33.07
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



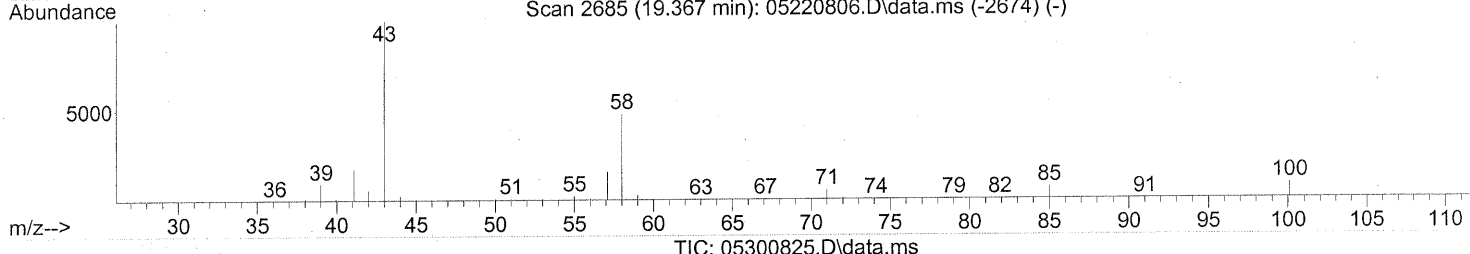
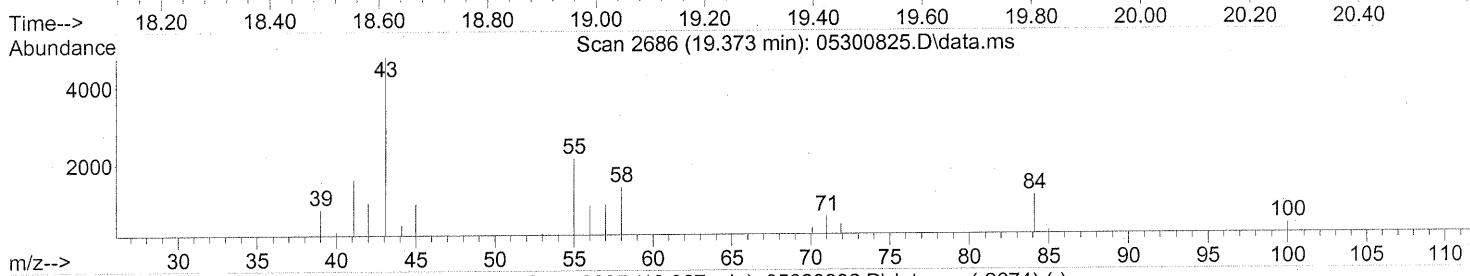
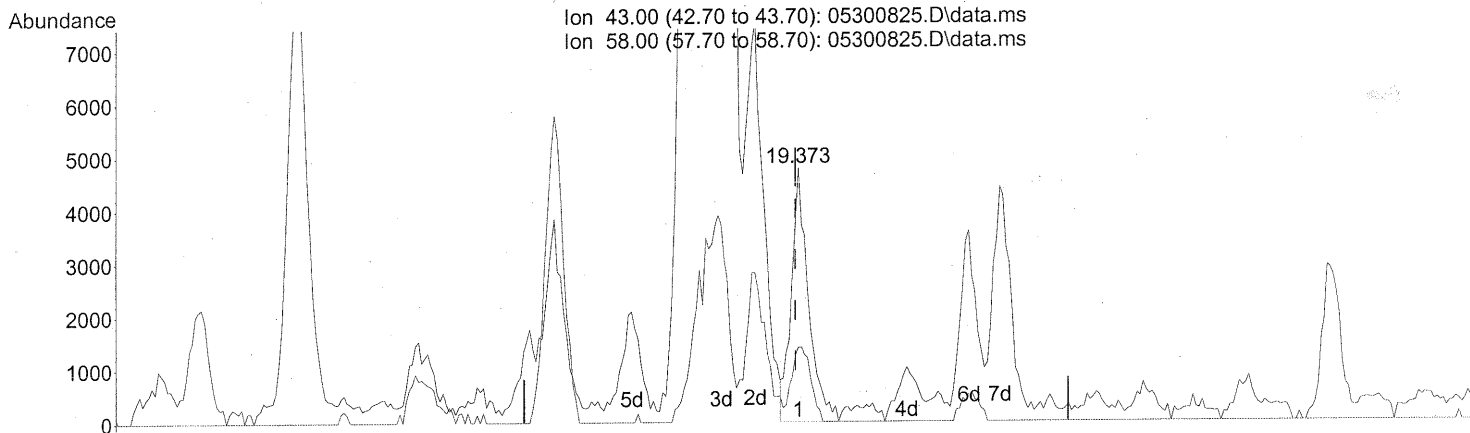
(58) Toluene (T)  
 19.054min (-0.006) 1.25ng  
 response 105291

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



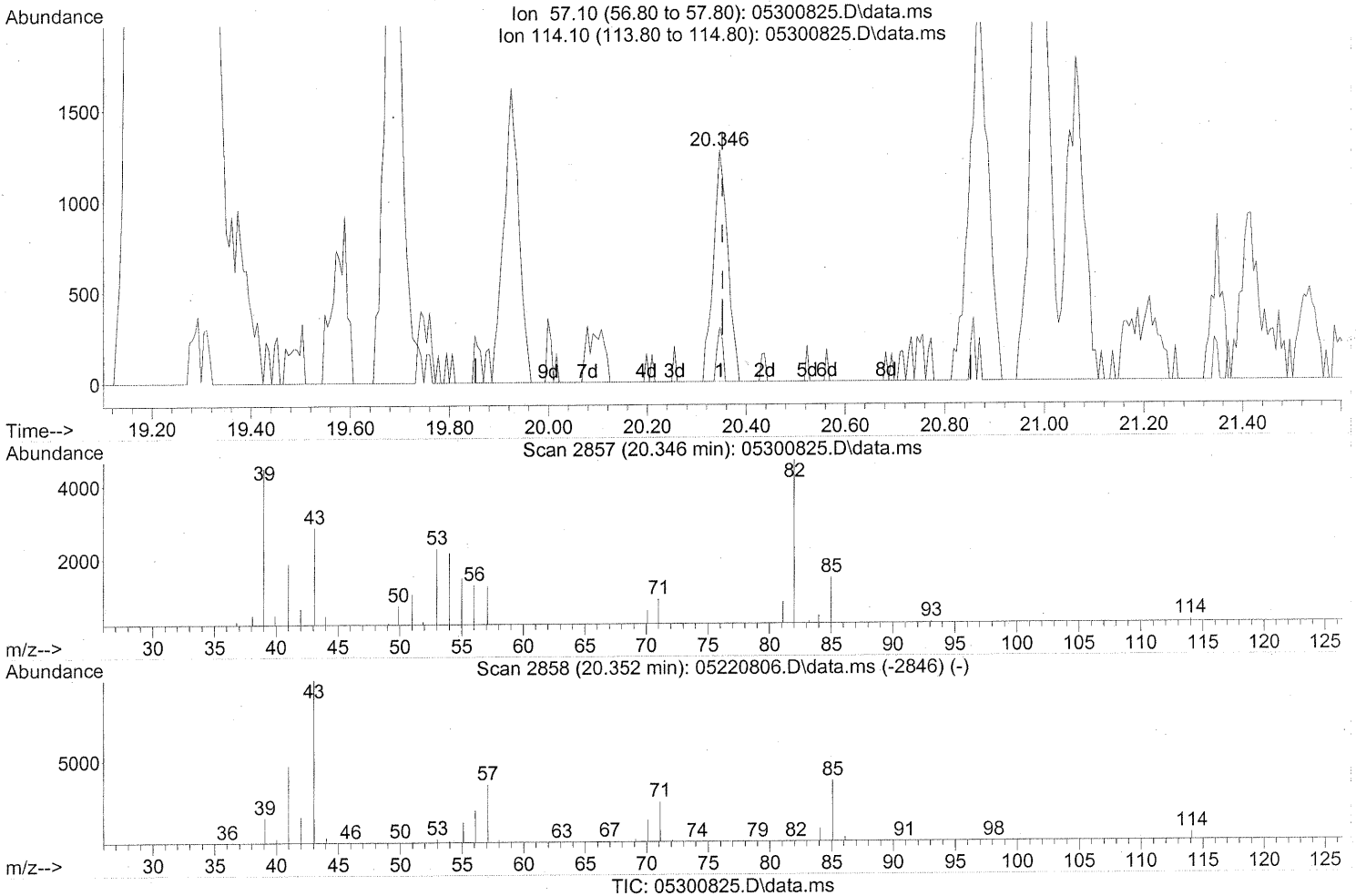
(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.18ng  
 response 10523

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	32.98#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.346min (-0.006) 0.14ng

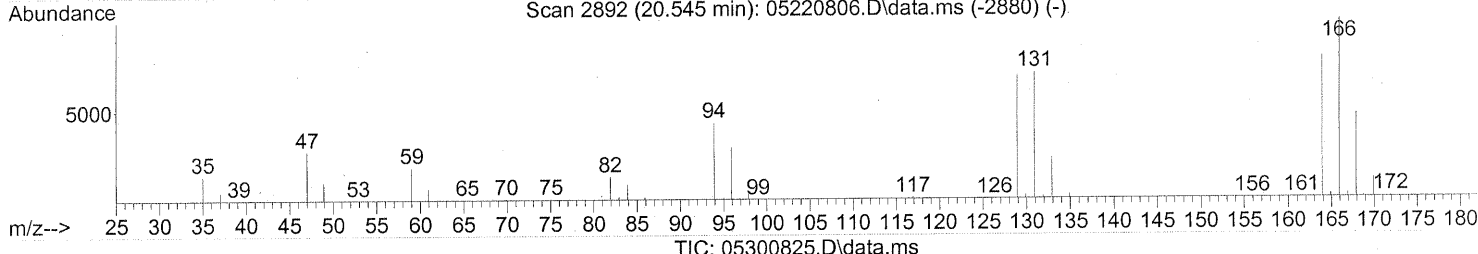
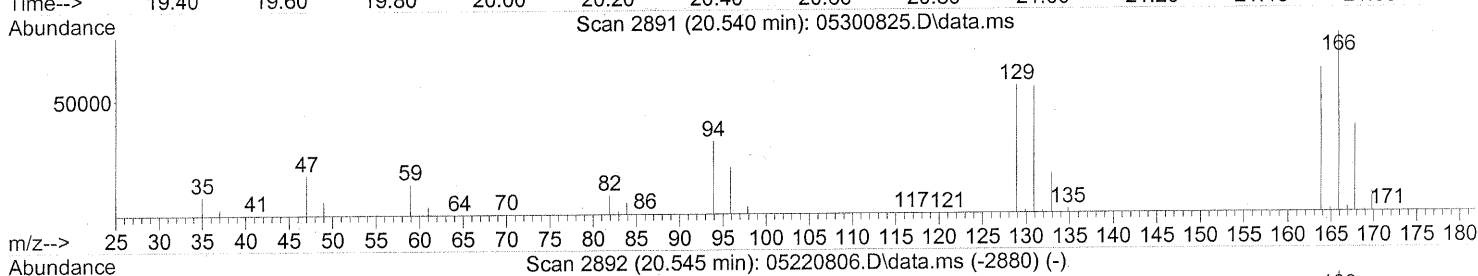
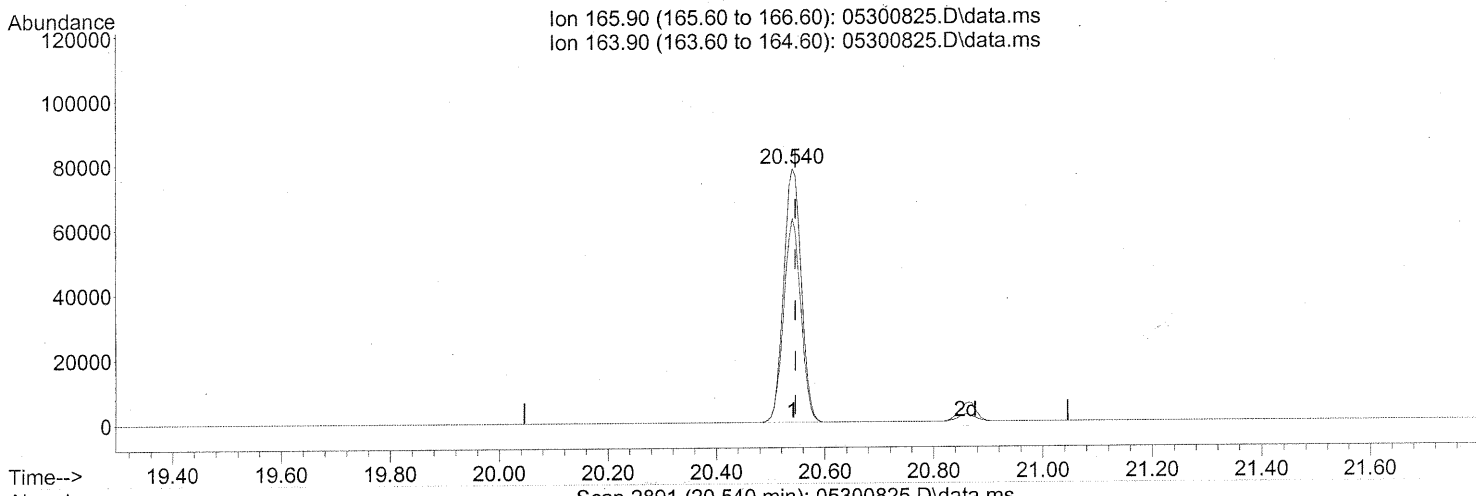
response 2577

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	9.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 7.08ng

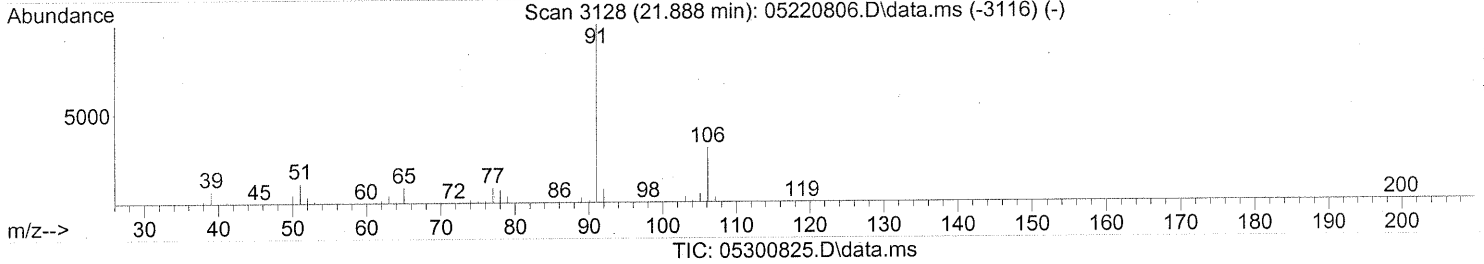
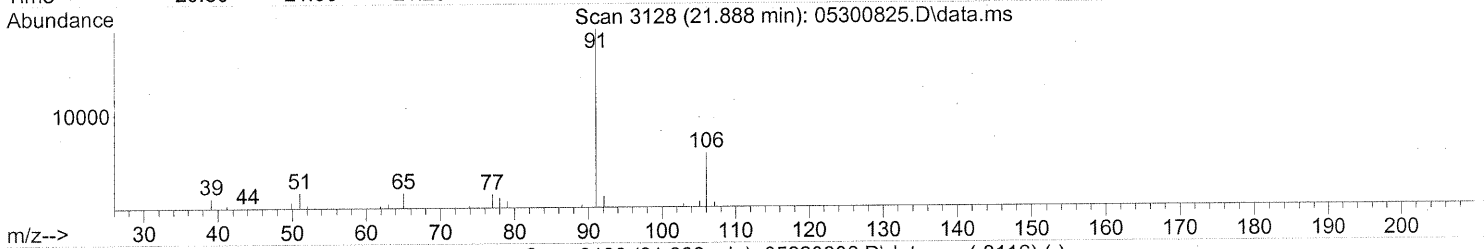
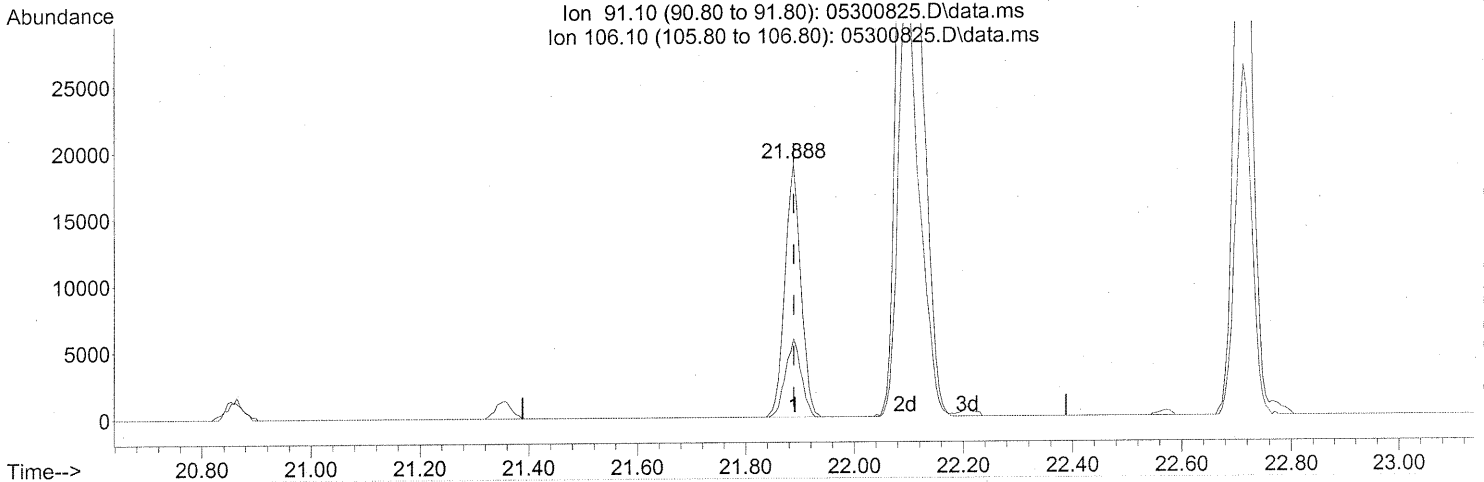
response 176873

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



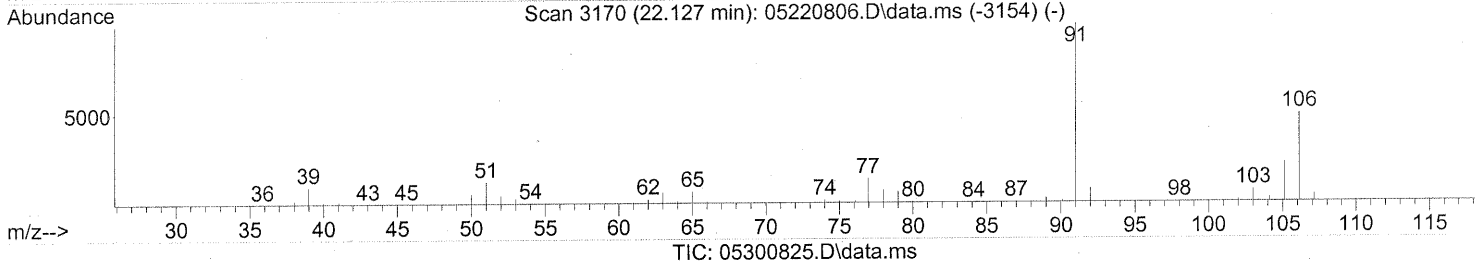
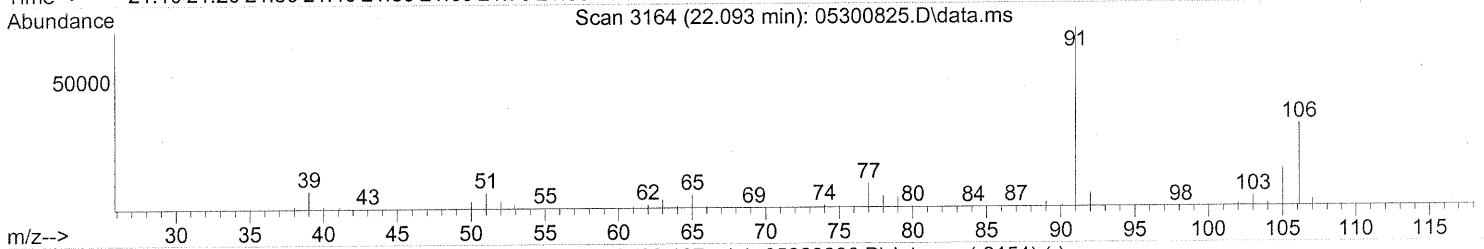
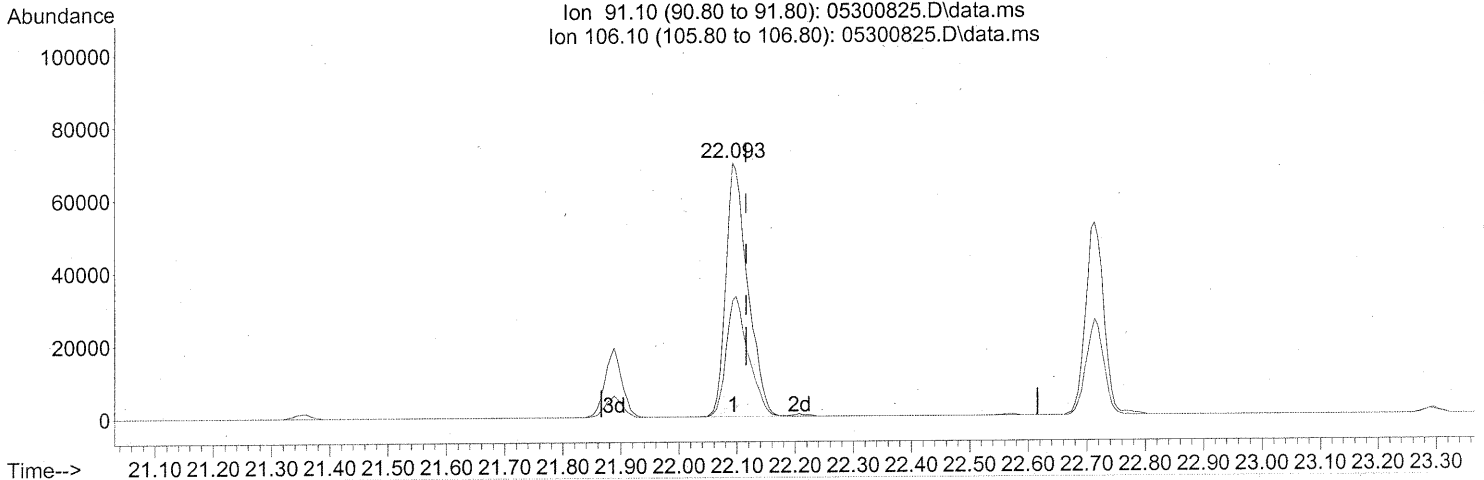
(66) Ethylbenzene (T)  
 21.888min (-0.000) 0.40ng  
 response 38647

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.093min (-0.023) 2.81ng

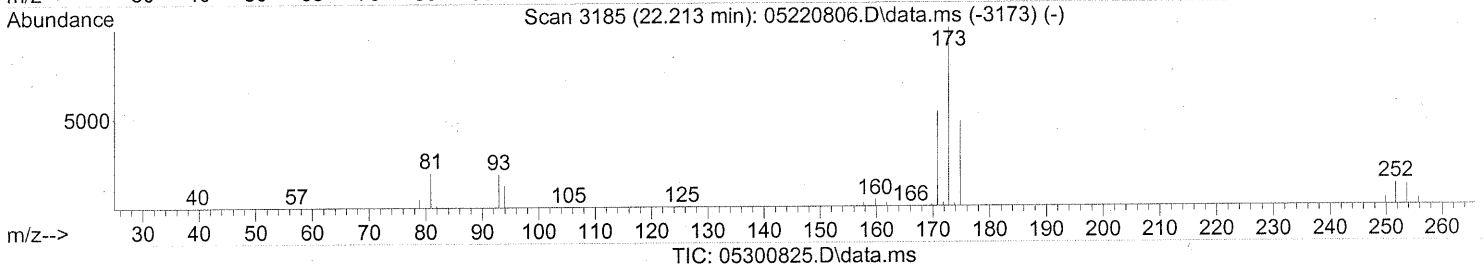
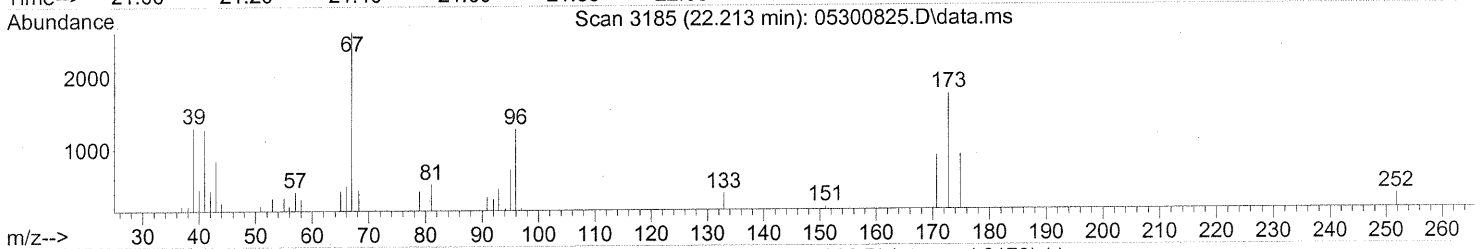
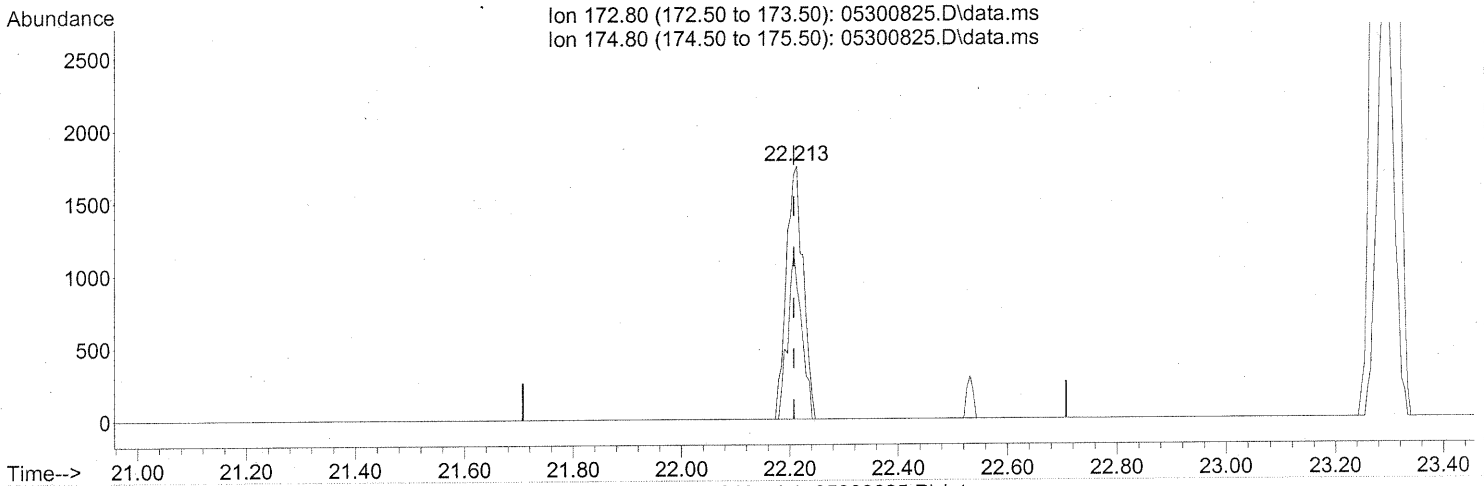
response 182174

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	47.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



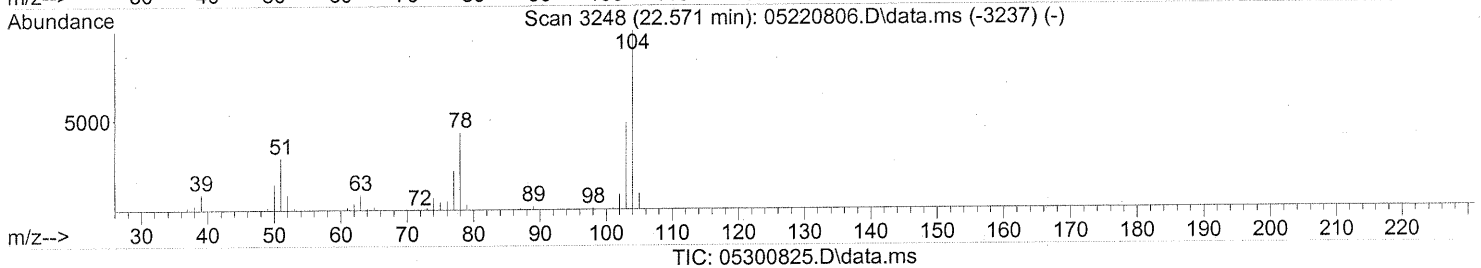
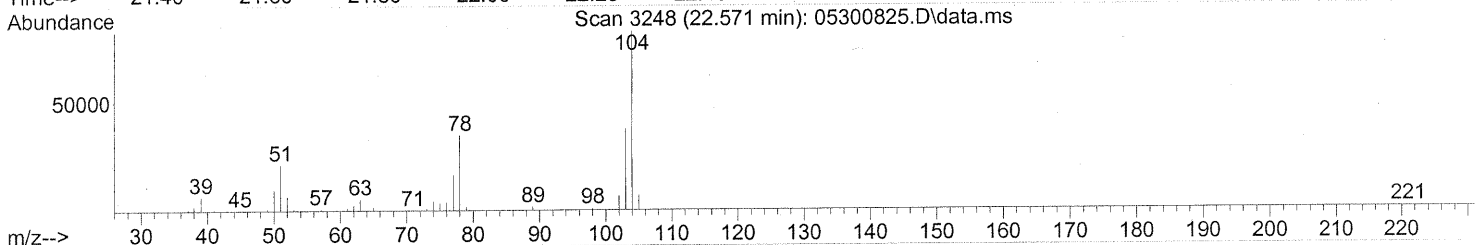
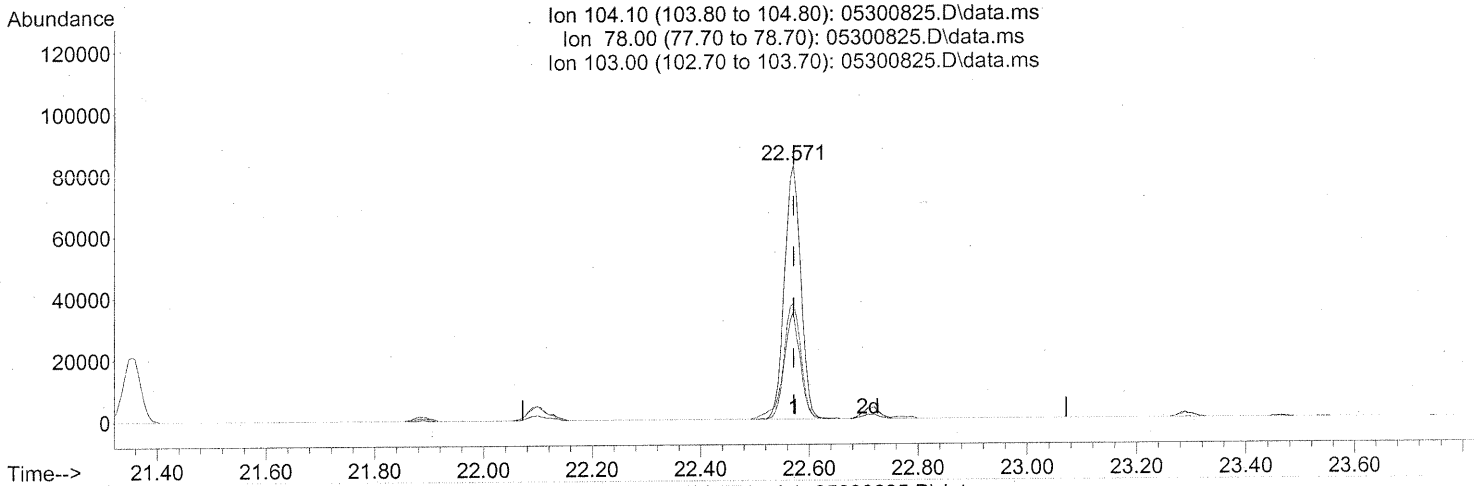
(68) Bromoform (T)  
 22.213min (+0.006) 0.22ng  
 response 3766

Ion	Exp%	Act%
172.80	100	100
174.80	49.40	54.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 2.98ng

response 172371

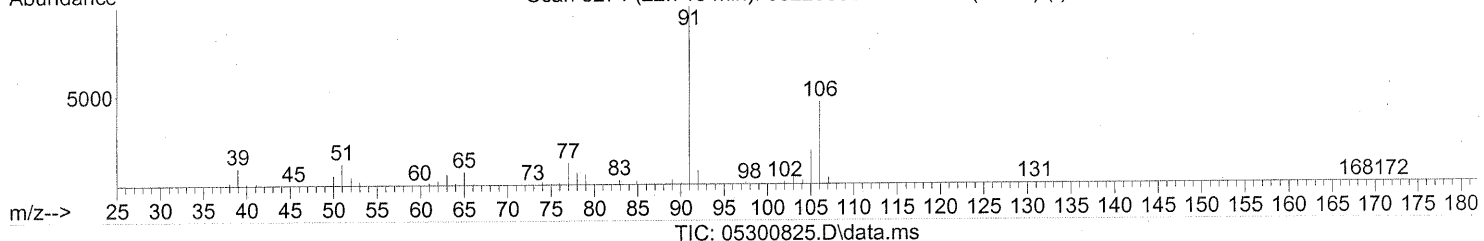
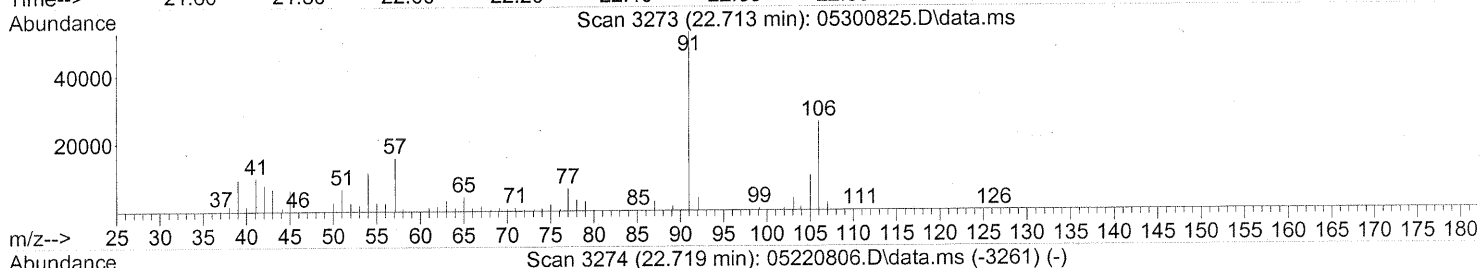
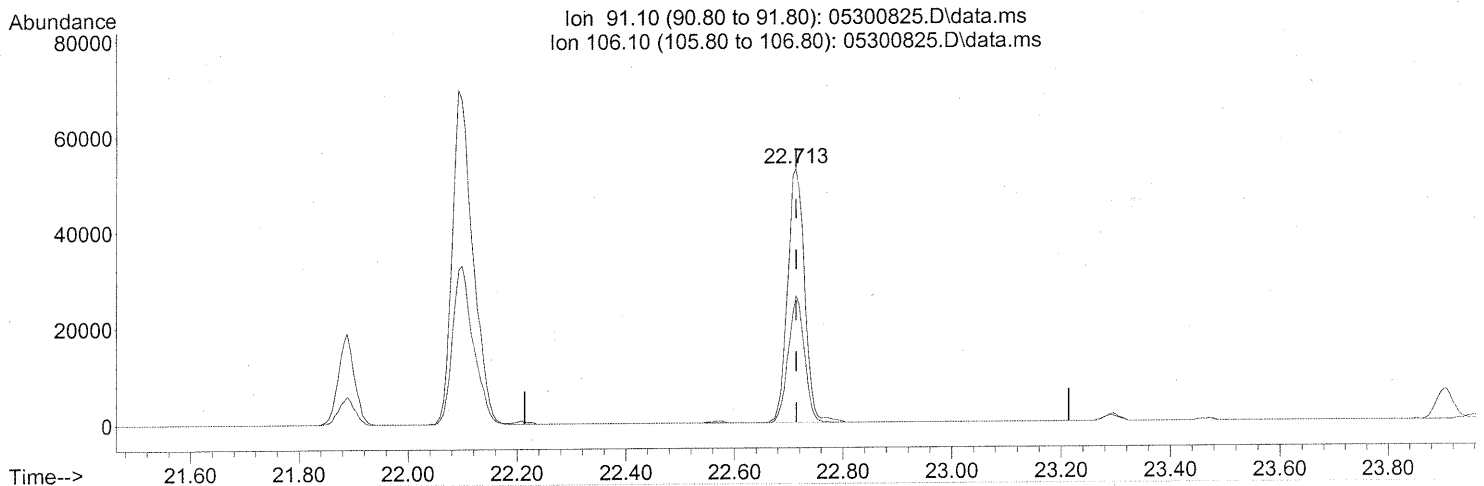
Ion	Exp%	Act%
104.10	100	100
78.00	39.40	40.24
103.00	47.10	49.70
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.713min (-0.000) 1.64ng

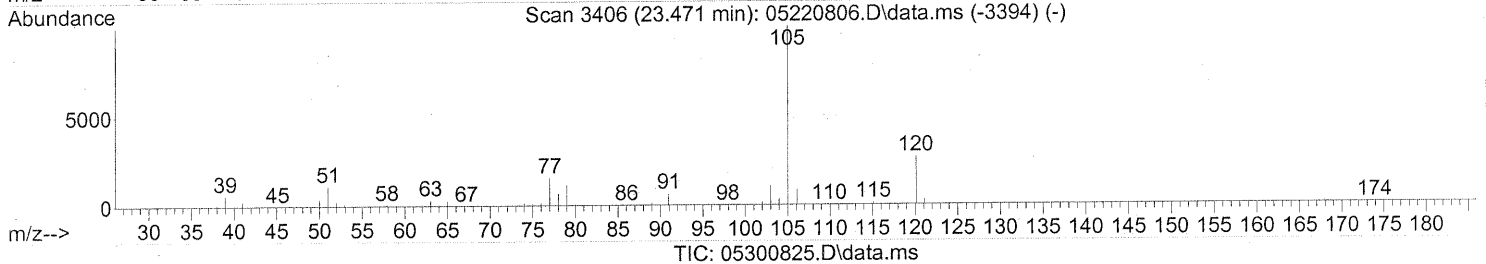
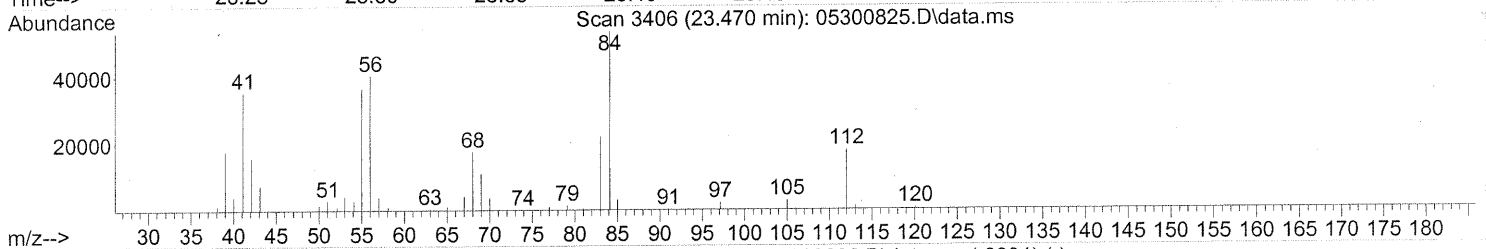
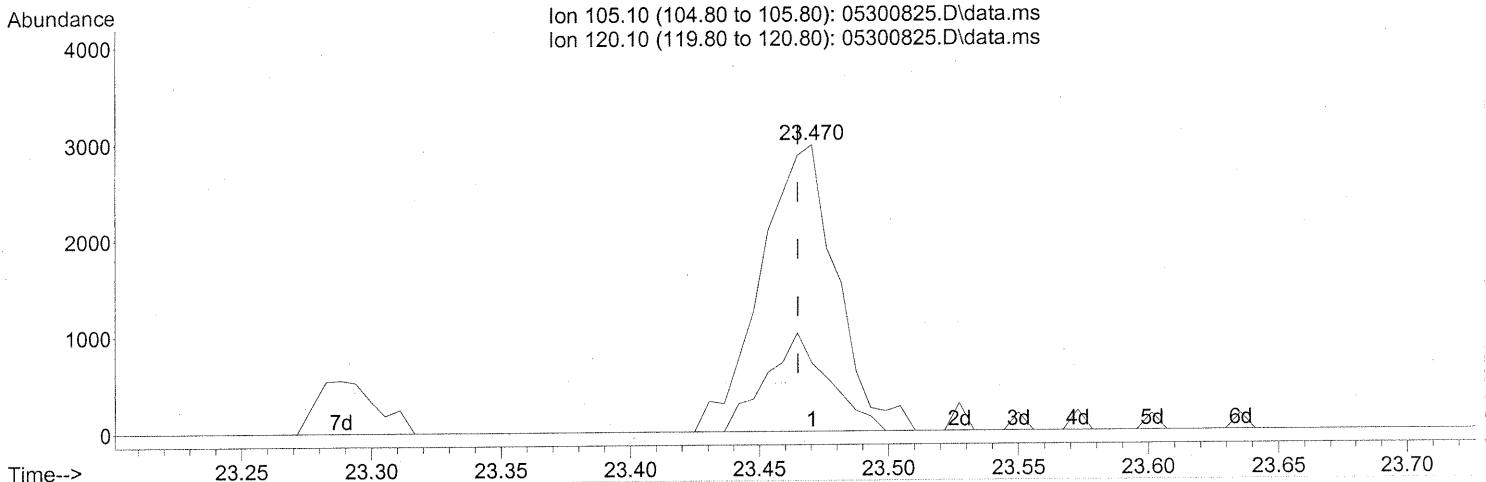
response 114921

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300825.D  
Acq On : 31 May 2008 4:04 am  
Operator : WA  
Sample : P0801548-010 (1000ml)  
Misc : ENSR SG48B-05 (-3.2,3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



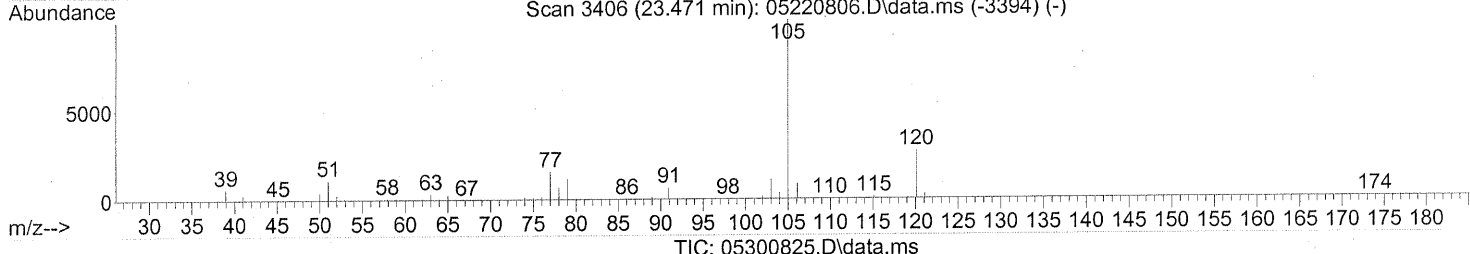
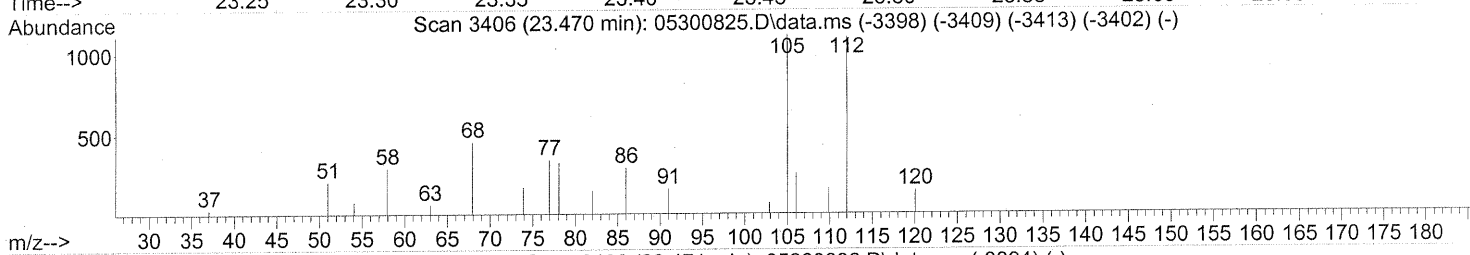
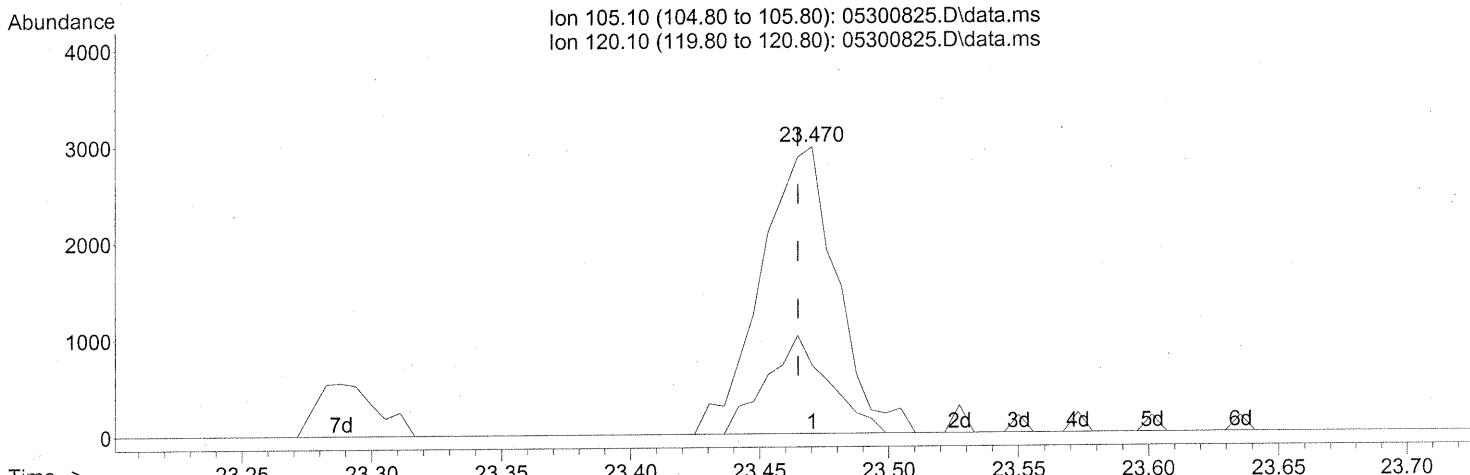
(74) Cumene (T)  
23.470min (+0.006) 0.06ng  
response 6048  
Ion Exp% Act%  
105.10 100 100  
120.10 26.30 28.11  
0.00 0.00 0.00  
0.00 0.00 0.00

~~BEFORE~~ SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)  
 23.470min (+0.006) 0.06ng  
 response 6048

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	28.11
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

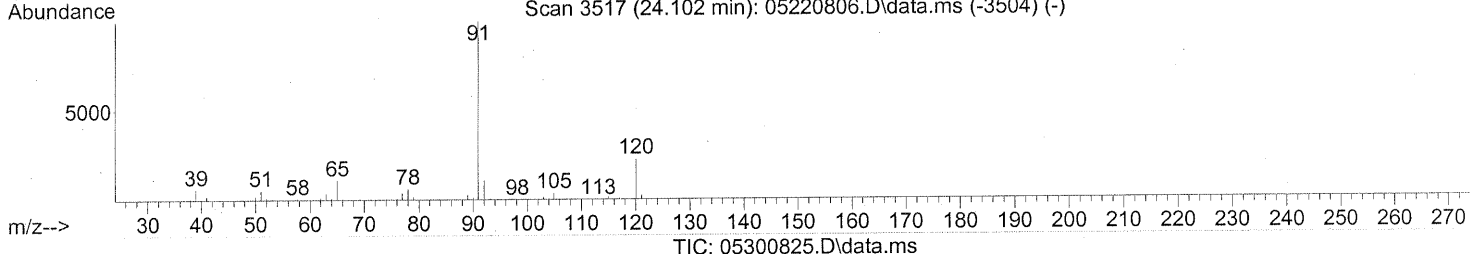
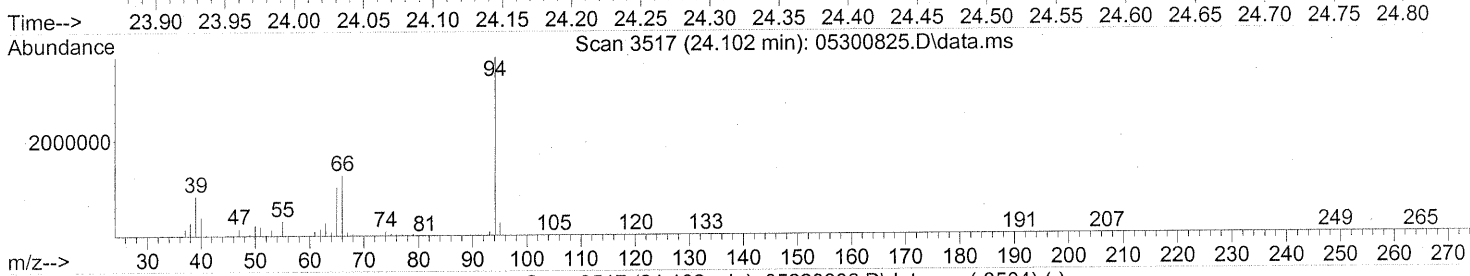
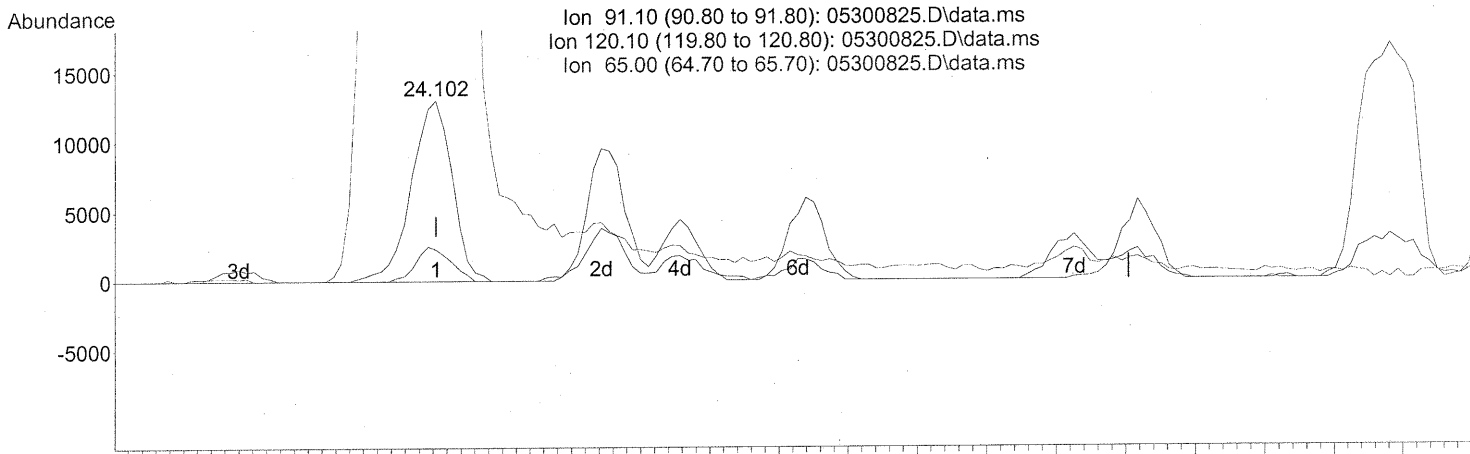
*P06/05/08*

*E-6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.23ng  
 response 26695

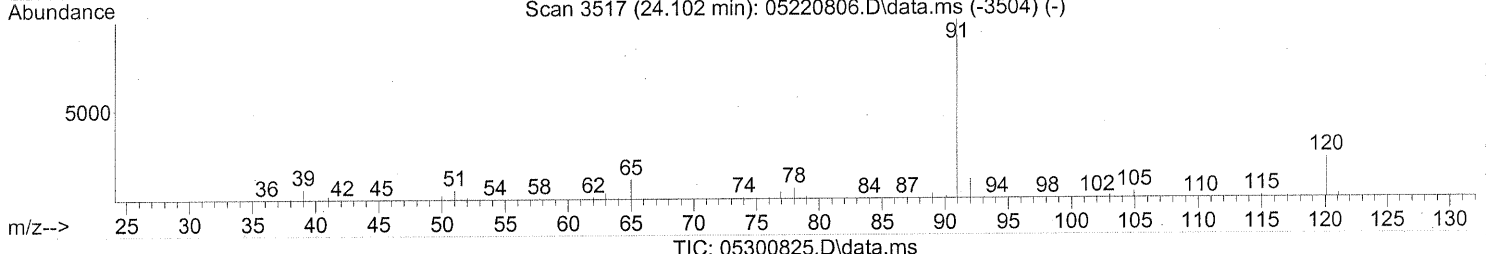
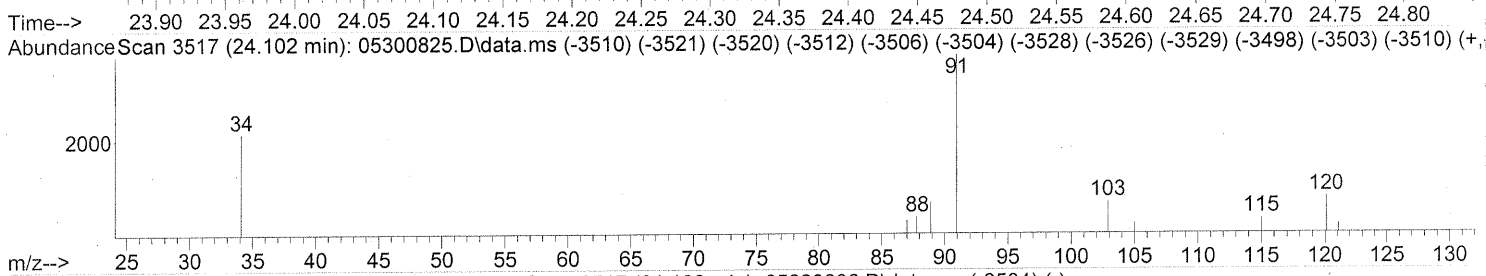
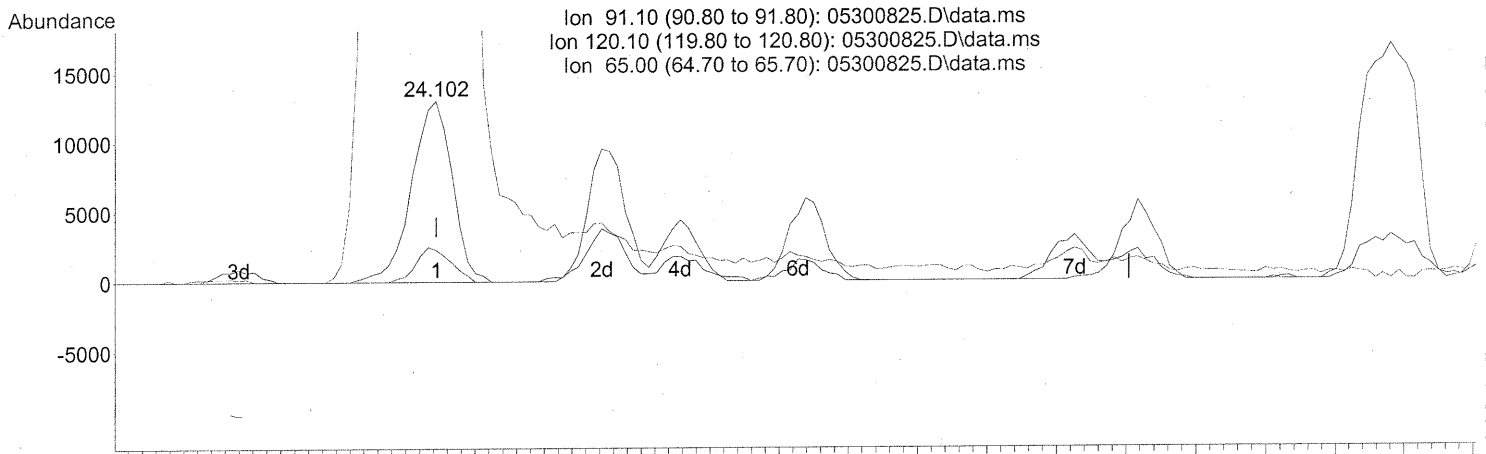
*BEFORE SUBTRACTION*

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	16.34
65.00	11.40	9626.14#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.23ng  
 response 26695

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	16.34
65.00	11.40	9626.14#
0.00	0.00	0.00

AFTER SUBTRACTION

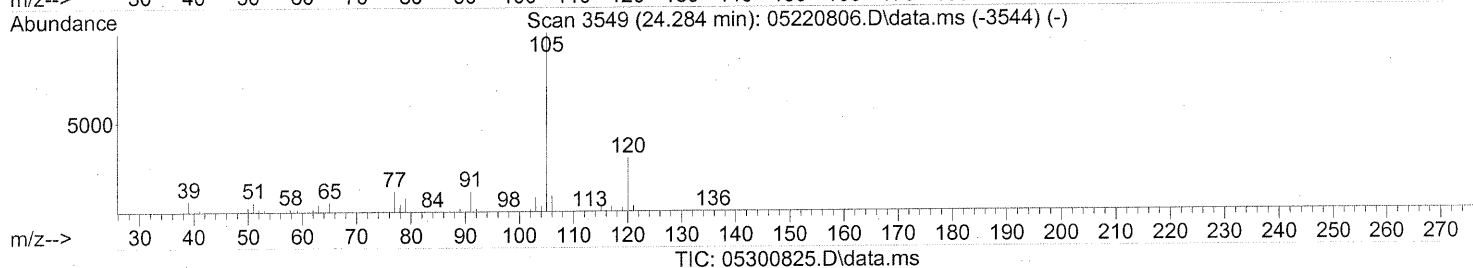
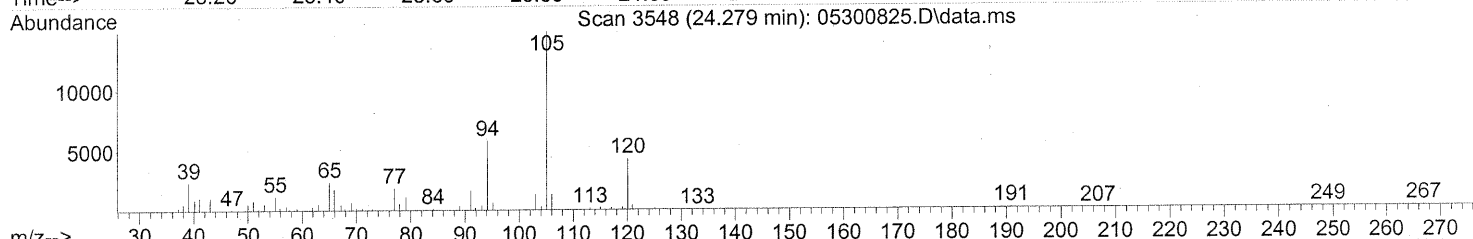
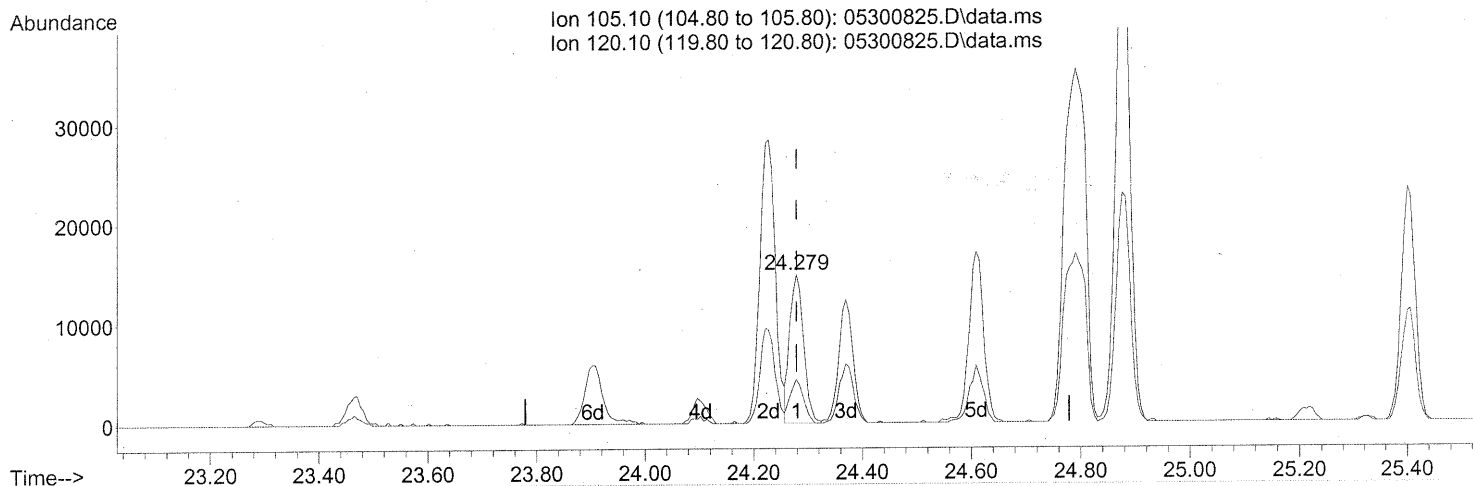
*Post*

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.29ng

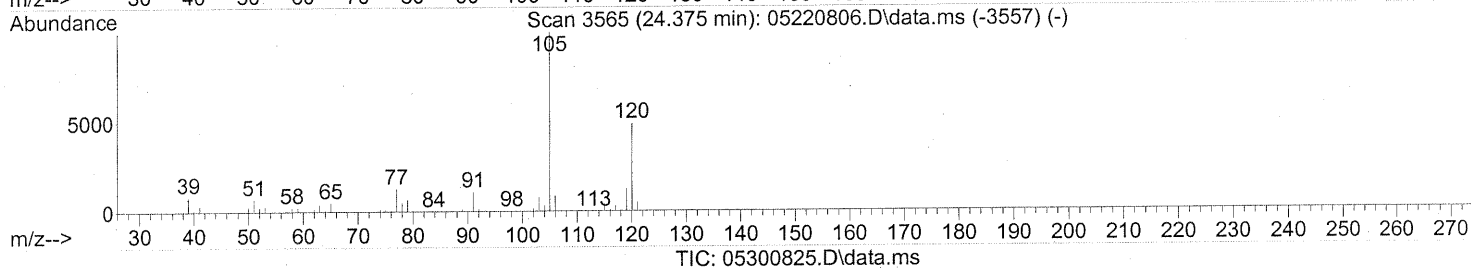
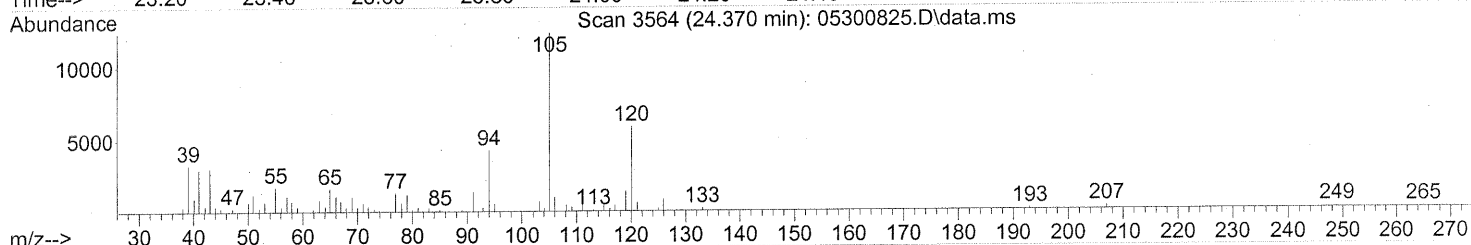
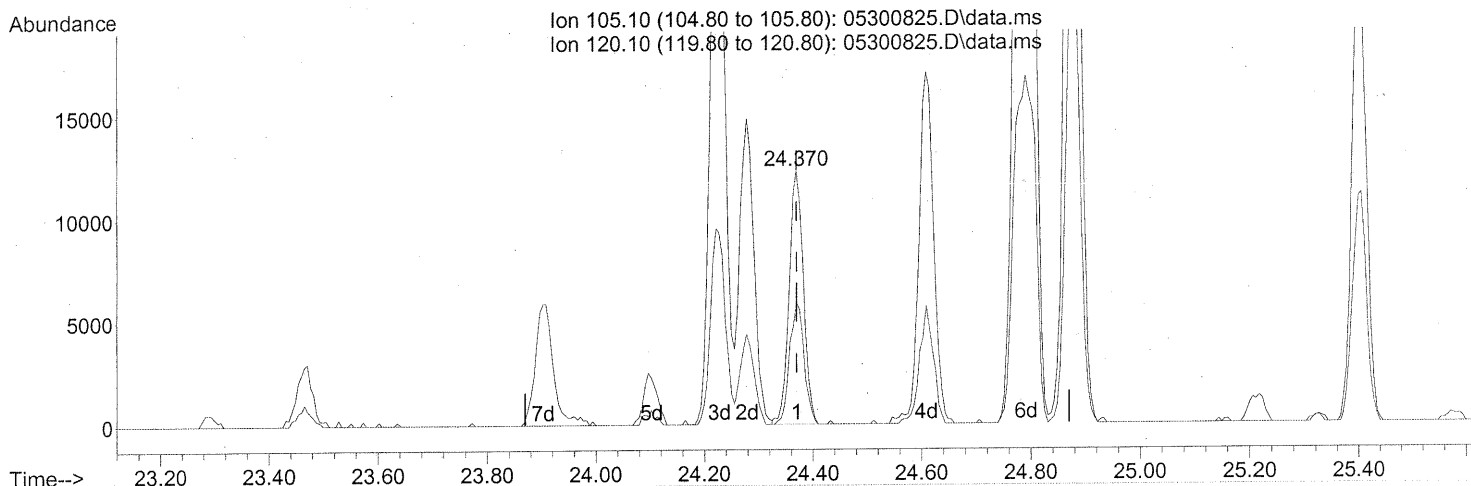
response 26490

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	28.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.27ng

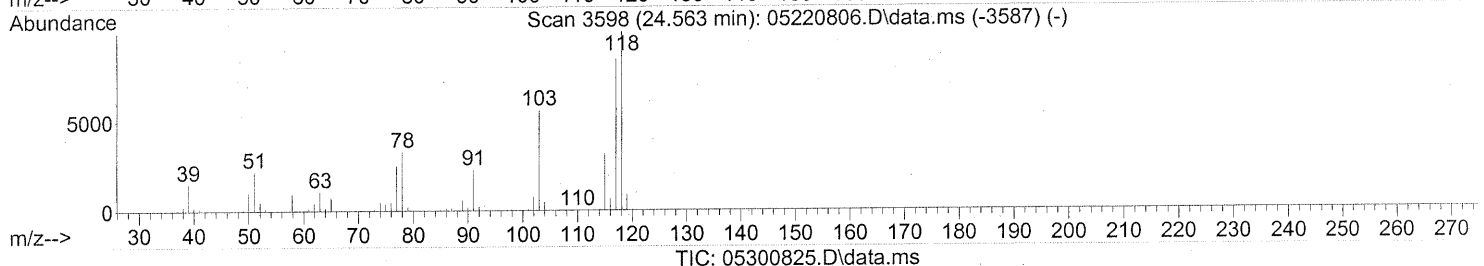
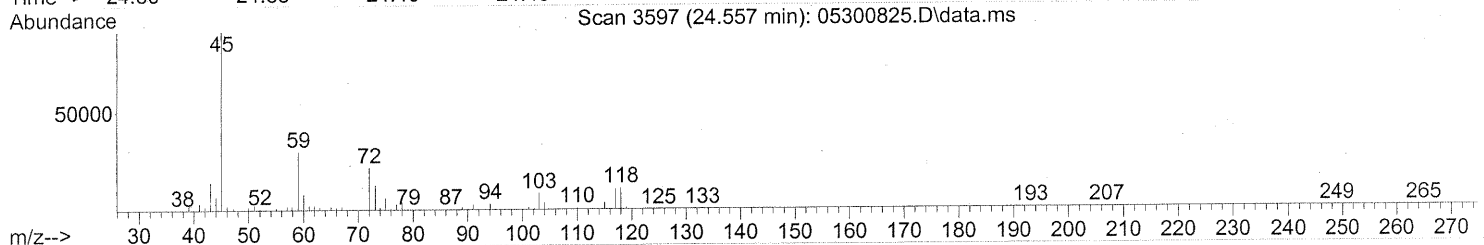
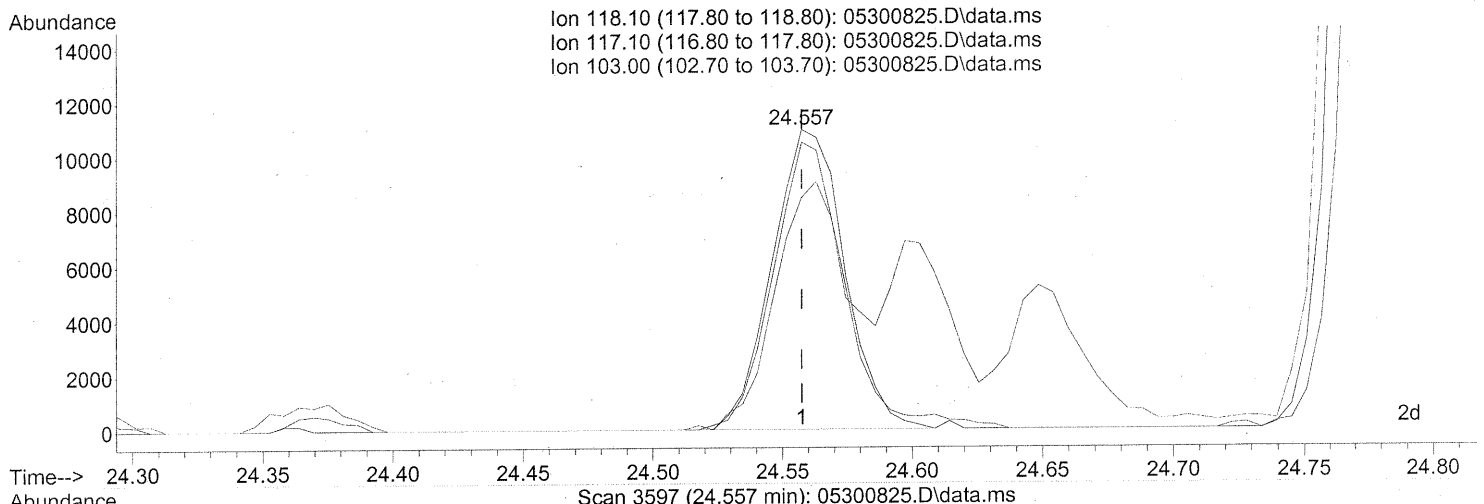
response 22496

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.557min (-0.000) 0.47ng

response 21251

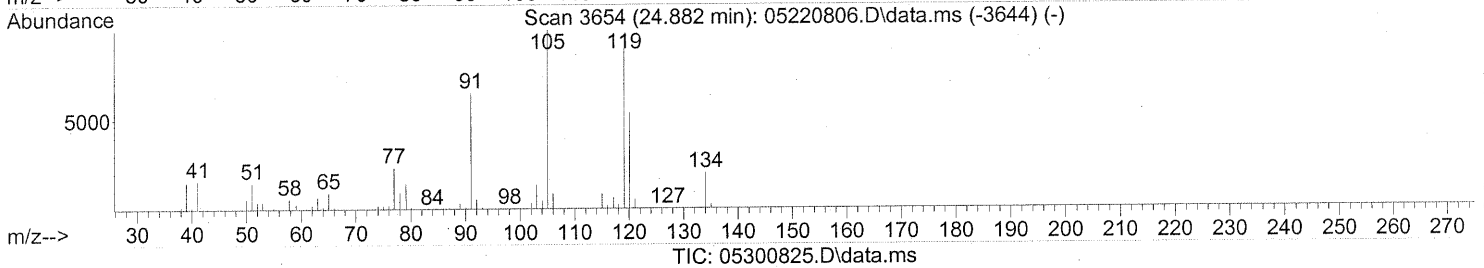
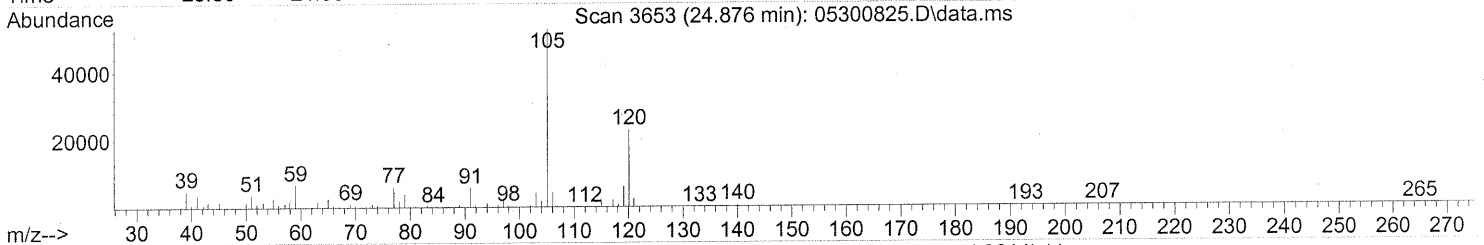
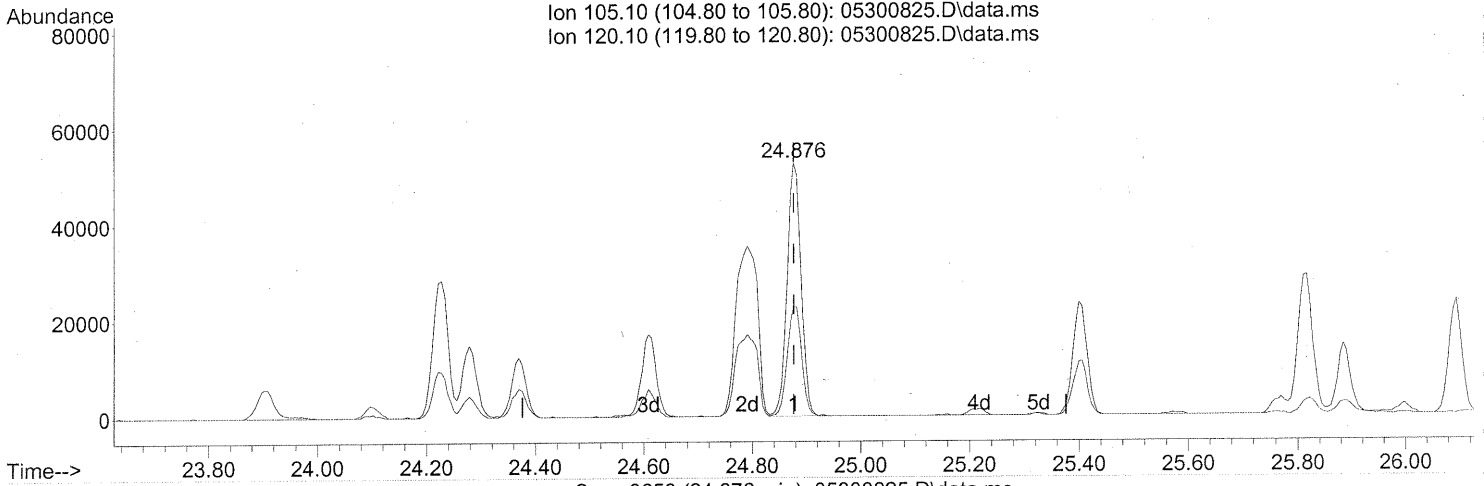
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	94.89
103.00	55.30	85.86#
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 1.11ng

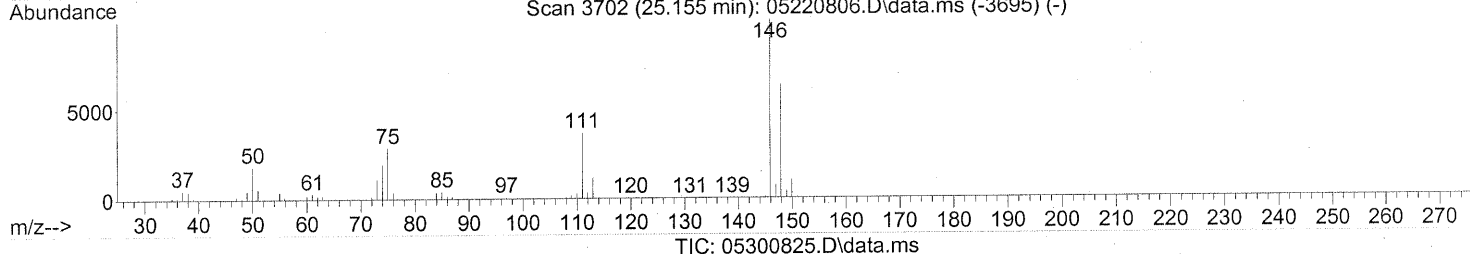
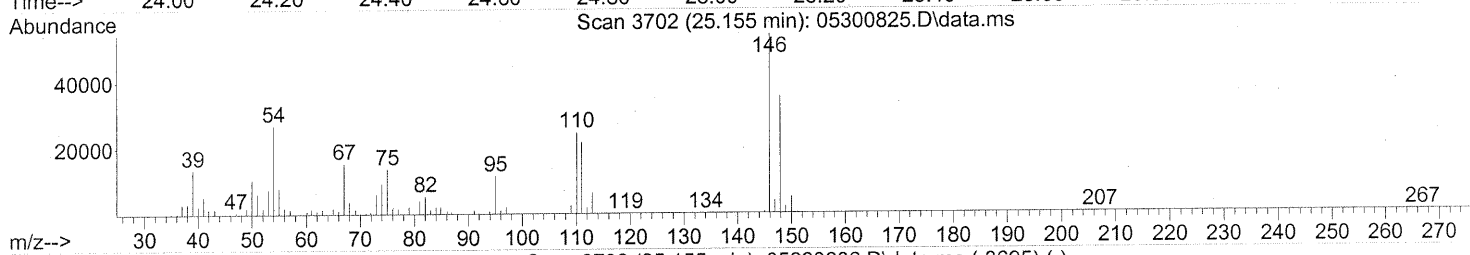
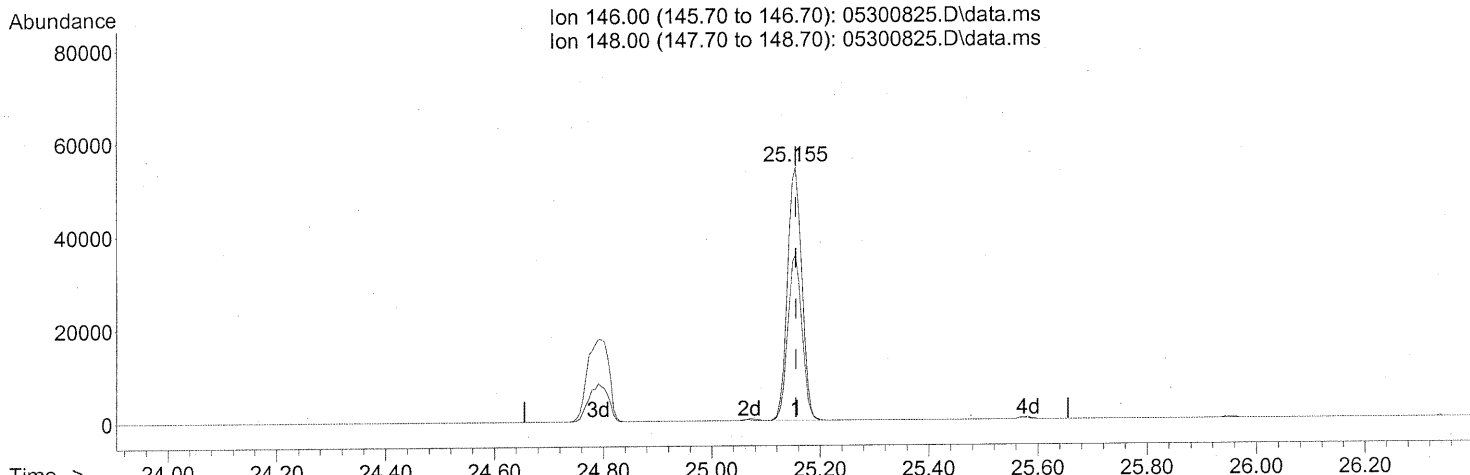
response 94044

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	44.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.94ng

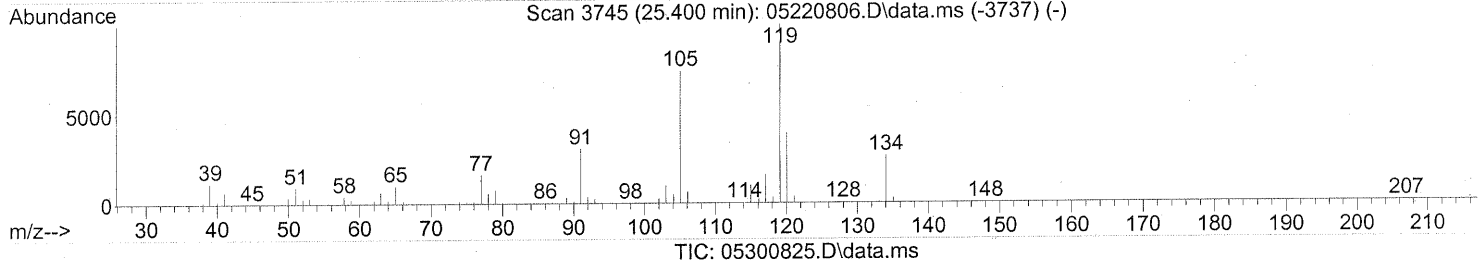
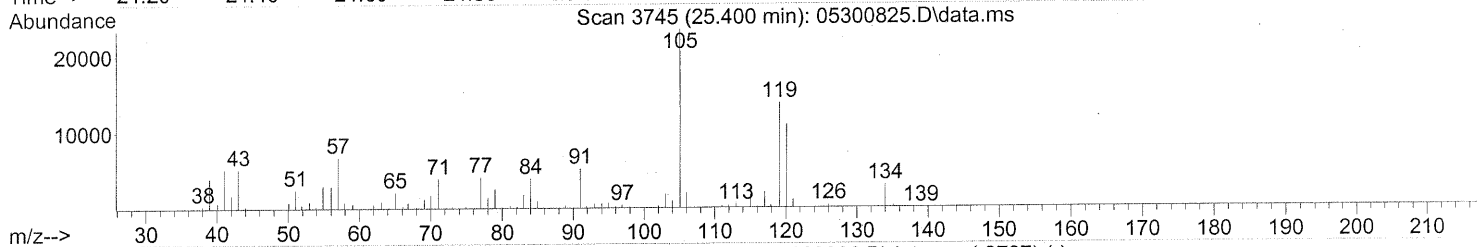
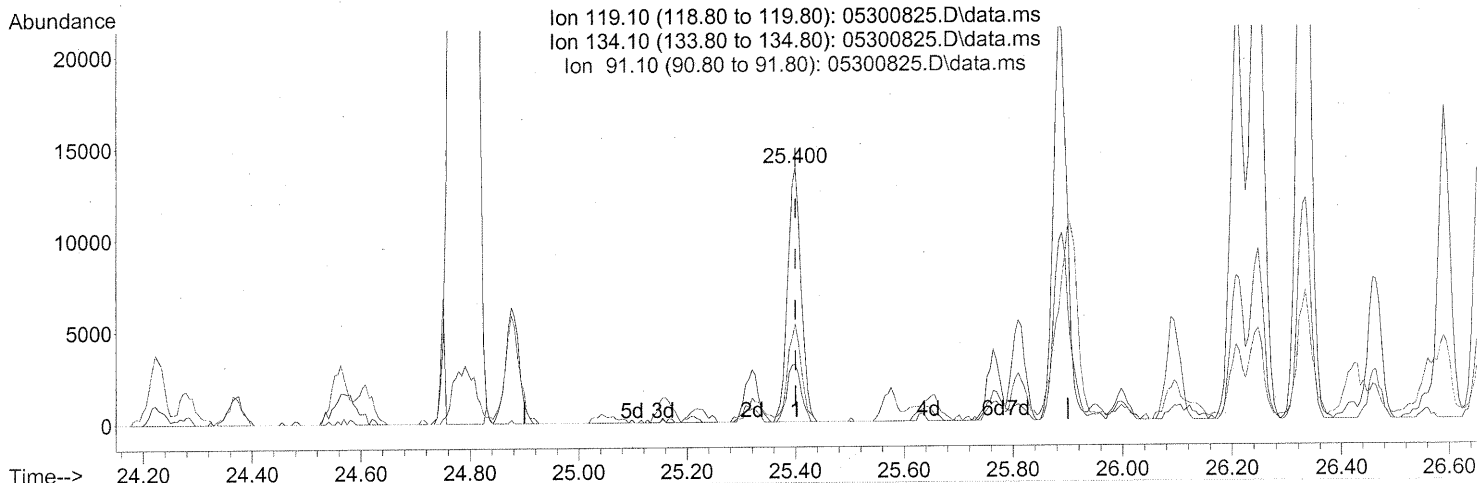
response 99766

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.27ng

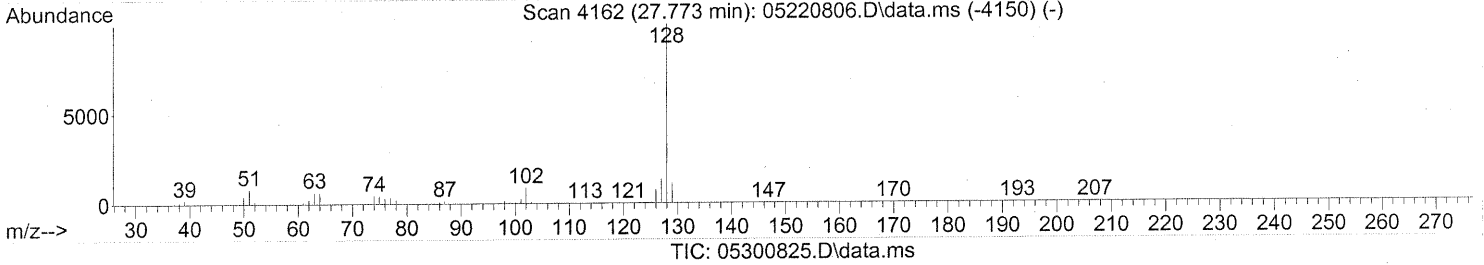
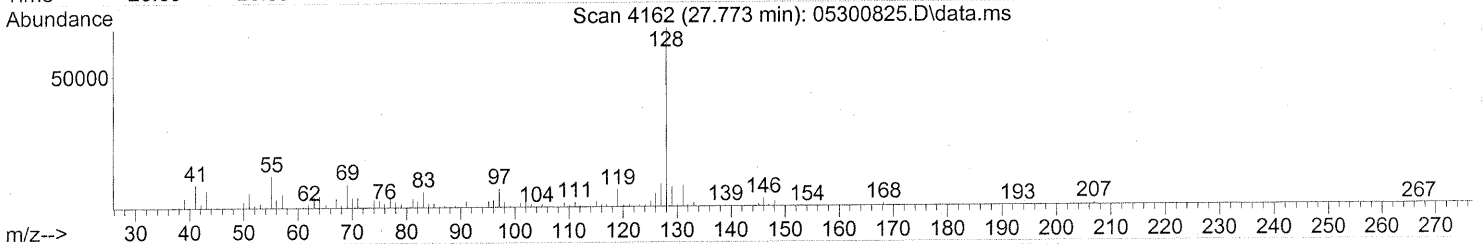
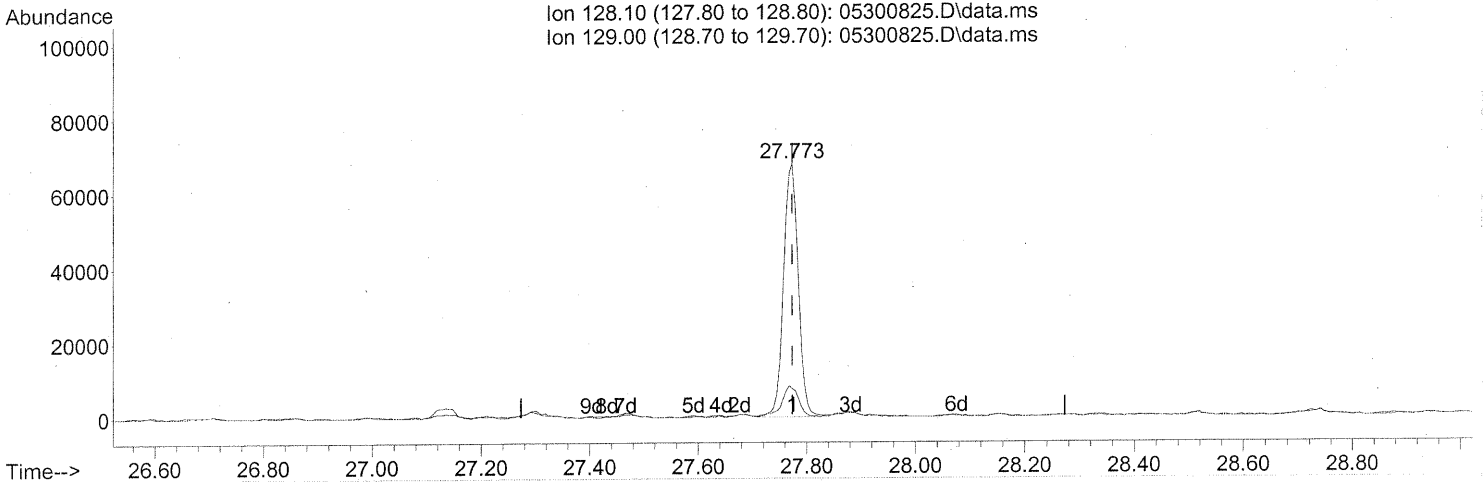
response 23797

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	23.63
91.10	27.10	39.18
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 05 17:11:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

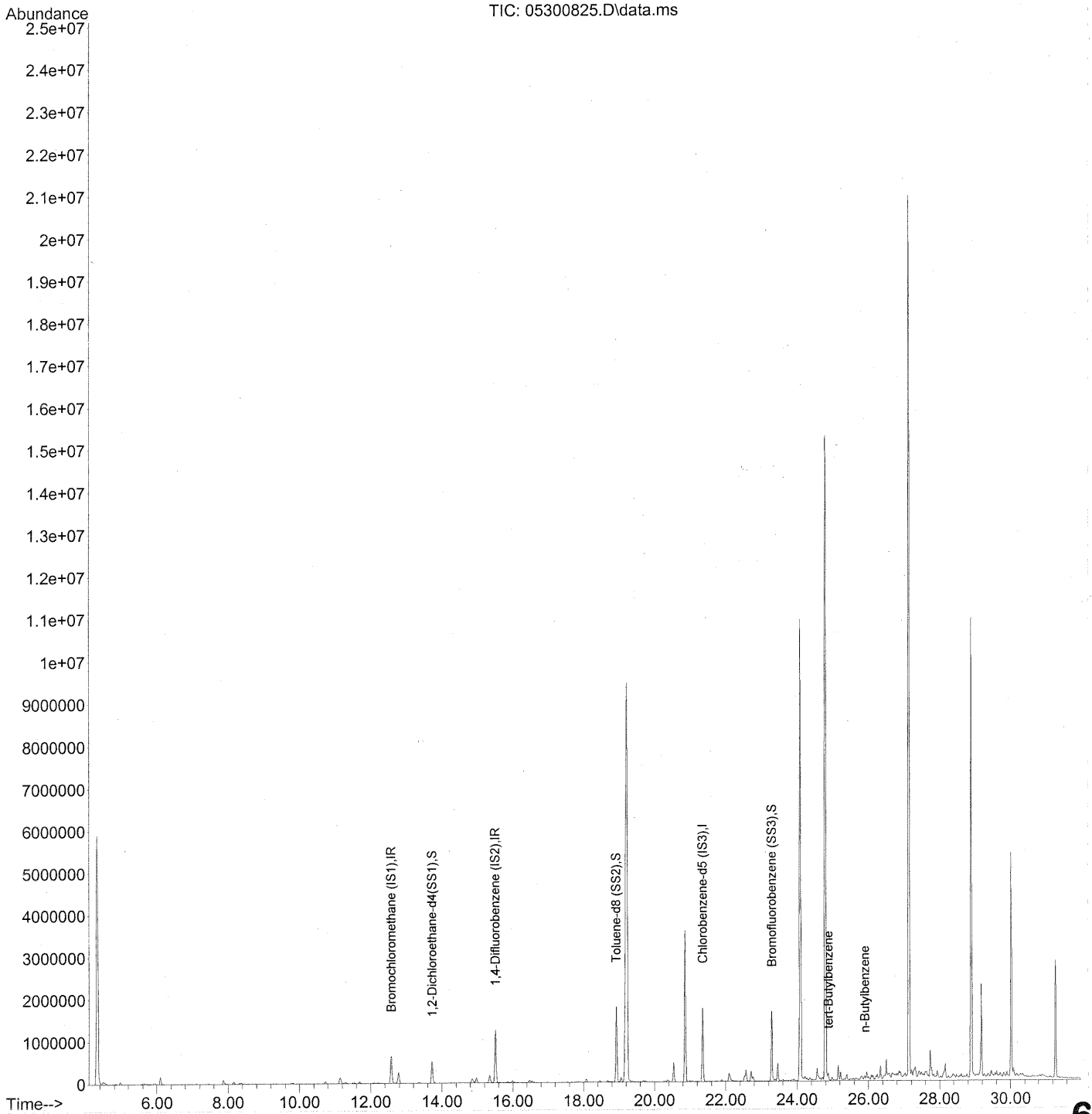


(95) Naphthalene (T)  
 27.773min (-0.000) 1.14ng  
 response 127612

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.95
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:22:52 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:22:52 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	354460	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1487537	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	691971	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	540265	21.997	ng	-0.03
Spiked Amount	25.000		Recovery	=	88.00%	✓
5) Toluene-d8 (SS2)	18.92	98	1532692	24.663	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.64%	✓
6) Bromofluorobenzene (SS3)	23.29	174	646341	25.576	ng	0.00
Spiked Amount	25.000		Recovery	=	102.32%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	10990	<del>0.135</del>	ng	NR # 55
8) n-Butylbenzene	25.90	91	27151	0.302	ng	# 50

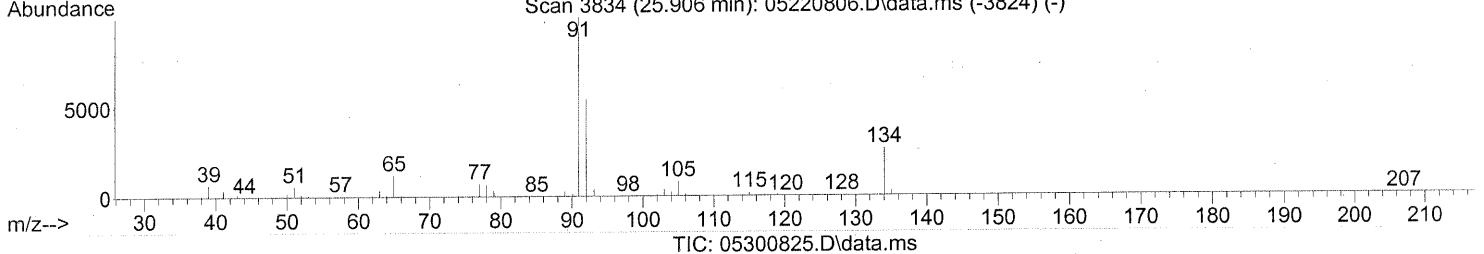
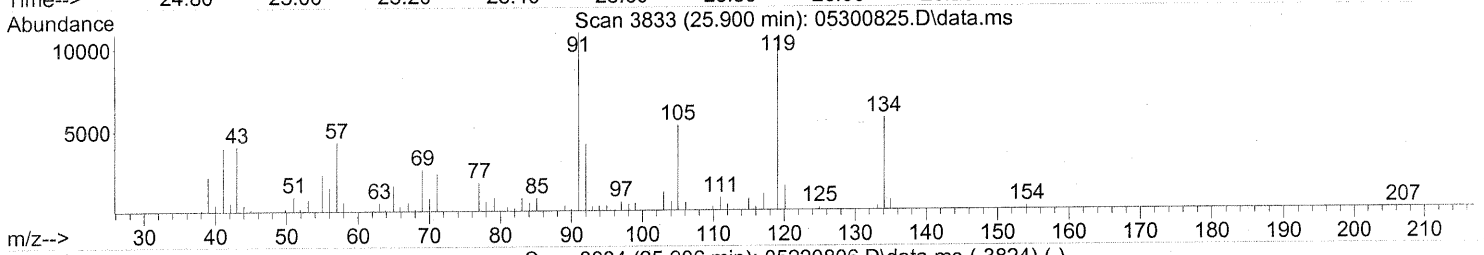
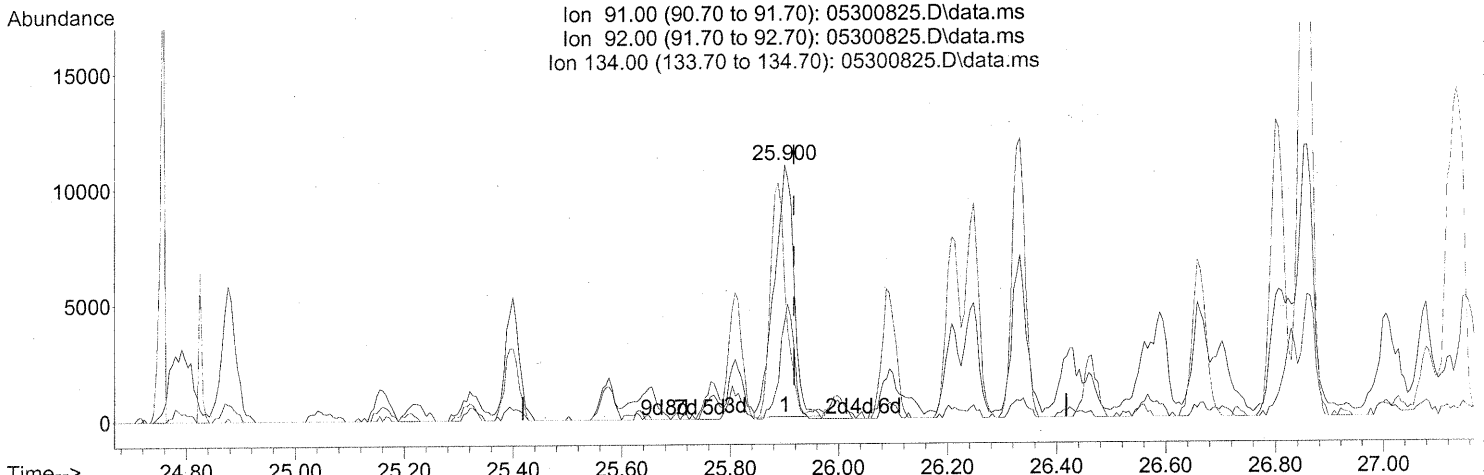
(#) = qualifier out of range (m) = manual integration (+) = signals summed

8/06/08/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300825.D  
 Acq On : 31 May 2008 4:04 am  
 Operator : WA  
 Sample : P0801548-010 (1000ml)  
 Misc : ENSR SG48B-05 (-3.2,3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:22:52 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene  
 25.900min (-0.017) 0.30ng  
 response 27151

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	33.19#
134.00	28.80	75.70#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00995

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.5	0.83	0.083	0.51	0.17	0.017	
74-87-3	Chloromethane	ND	0.17	0.083	ND	0.080	0.040	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.83	0.083	ND	0.12	0.012	
75-01-4	Vinyl Chloride	ND	0.17	0.083	ND	0.065	0.032	
74-83-9	Bromomethane	0.085	0.17	0.083	0.022	0.043	0.021	J
75-00-3	Chloroethane	ND	0.17	0.083	ND	0.063	0.031	
64-17-5	Ethanol	3.3	8.3	0.083	1.8	4.4	0.044	J
67-64-1	Acetone	29	8.3	0.12	12	3.5	0.051	B, M
75-69-4	Trichlorofluoromethane	61	0.17	0.083	11	0.030	0.015	
107-13-1	Acrylonitrile	ND	0.83	0.12	ND	0.38	0.054	
75-35-4	1,1-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.76	0.83	0.12	0.25	0.27	0.041	J
75-09-2	Methylene Chloride	0.13	0.83	0.083	0.038	0.24	0.024	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.17	0.083	ND	0.053	0.027	
76-13-1	Trichlorotrifluoroethane	1.9	0.17	0.093	0.25	0.022	0.012	
75-15-0	Carbon Disulfide	2.1	0.83	0.20	0.67	0.27	0.064	
156-60-5	trans-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
75-34-3	1,1-Dichloroethane	0.21	0.17	0.083	0.051	0.041	0.021	
1634-04-4	Methyl tert-Butyl Ether	ND	0.17	0.083	ND	0.046	0.023	
108-05-4	Vinyl Acetate	16	8.3	0.27	4.4	2.4	0.075	
78-93-3	2-Butanone (MEK)	7.3	0.83	0.083	2.5	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.17	0.083	ND	0.042	0.021	
108-20-3	Diisopropyl Ether	ND	0.83	0.098	ND	0.20	0.023	
67-66-3	Chloroform	33	0.17	0.098	6.8	0.034	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00995

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/31/08  
**Volume(s) Analyzed:** 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.83	0.085	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.17	0.083	ND	0.041	0.021	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>0.80</b>	0.17	0.083	<b>0.15</b>	0.030	0.015	
71-43-2	<b>Benzene</b>	<b>4.8</b>	0.17	0.083	<b>1.5</b>	0.052	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.11</b>	0.17	0.083	<b>0.017</b>	0.026	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.83	0.083	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.17	0.083	ND	0.036	0.018	
75-27-4	Bromodichloromethane	ND	0.17	0.083	ND	0.025	0.012	
79-01-6	<b>Trichloroethene</b>	<b>1,700</b>	0.17	0.083	<b>320</b>	0.031	0.015	
123-91-1	1,4-Dioxane	ND	0.83	0.10	ND	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.83	0.12	ND	0.20	0.030	
142-82-5	<b>n-Heptane</b>	<b>1.4</b>	0.83	0.11	<b>0.33</b>	0.20	0.026	
10061-01-5	cis-1,3-Dichloropropene	ND	0.83	0.086	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.9</b>	0.83	0.093	<b>0.72</b>	0.20	0.023	
10061-02-6	trans-1,3-Dichloropropene	ND	0.83	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.17	0.083	ND	0.030	0.015	
108-88-3	<b>Toluene</b>	<b>17</b>	0.83	0.083	<b>4.6</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>1.4</b>	0.83	0.13	<b>0.35</b>	0.20	0.031	
124-48-1	Dibromochloromethane	ND	0.17	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.17	0.090	ND	0.022	0.012	
111-65-9	<b>n-Octane</b>	<b>18</b>	0.83	0.083	<b>3.8</b>	0.18	0.018	
127-18-4	<b>Tetrachloroethene</b>	<b>630</b>	0.17	0.083	<b>94</b>	0.024	0.012	
108-90-7	<b>Chlorobenzene</b>	<b>1.2</b>	0.17	0.085	<b>0.26</b>	0.036	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG47B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-011

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Wida Ang  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00995

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 5/31/08  
 Volume(s) Analyzed: 1.00 Liter(s)  
 0.050 Liter(s)

Initial Pressure (psig): -3.7      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.66

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	6.7	0.83	0.10	1.5	0.19	0.024	
179601-23-1	m,p-Xylenes	28	0.83	0.22	6.4	0.19	0.050	
75-25-2	Bromoform	ND	0.83	0.13	ND	0.080	0.012	
100-42-5	Styrene	0.20	0.83	0.13	0.047	0.20	0.030	J
95-47-6	o-Xylene	8.1	0.83	0.10	1.9	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.17	0.11	ND	0.024	0.015	
98-82-8	Cumene	0.39	0.83	0.093	0.079	0.17	0.019	J
103-65-1	n-Propylbenzene	0.96	0.83	0.086	0.20	0.17	0.018	
622-96-8	4-Ethyltoluene	1.4	0.83	0.095	0.29	0.17	0.019	
108-67-8	1,3,5-Trimethylbenzene	1.6	0.83	0.10	0.33	0.17	0.020	
98-83-9	alpha-Methylstyrene	0.20	0.83	0.12	0.041	0.17	0.025	J
95-63-6	1,2,4-Trimethylbenzene	3.1	0.83	0.11	0.64	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.17	0.14	ND	0.032	0.028	
541-73-1	1,3-Dichlorobenzene	ND	0.17	0.10	ND	0.028	0.017	
106-46-7	1,4-Dichlorobenzene	5.8	0.17	0.093	0.96	0.028	0.015	
135-98-8	sec-Butylbenzene	ND	0.83	0.096	ND	0.15	0.018	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.2	0.83	0.11	0.23	0.15	0.020	
95-50-1	1,2-Dichlorobenzene	0.12	0.17	0.11	0.020	0.028	0.018	J
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.83	0.13	ND	0.086	0.013	
120-82-1	1,2,4-Trichlorobenzene	ND	0.17	0.13	ND	0.022	0.017	
91-20-3	Naphthalene	2.5	0.33	0.12	0.47	0.063	0.023	
87-68-3	Hexachlorobutadiene	ND	0.17	0.15	ND	0.016	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.083	ND	0.061	0.015	
104-51-8	n-Butylbenzene	0.79	0.33	0.083	0.14	0.061	0.015	

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

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

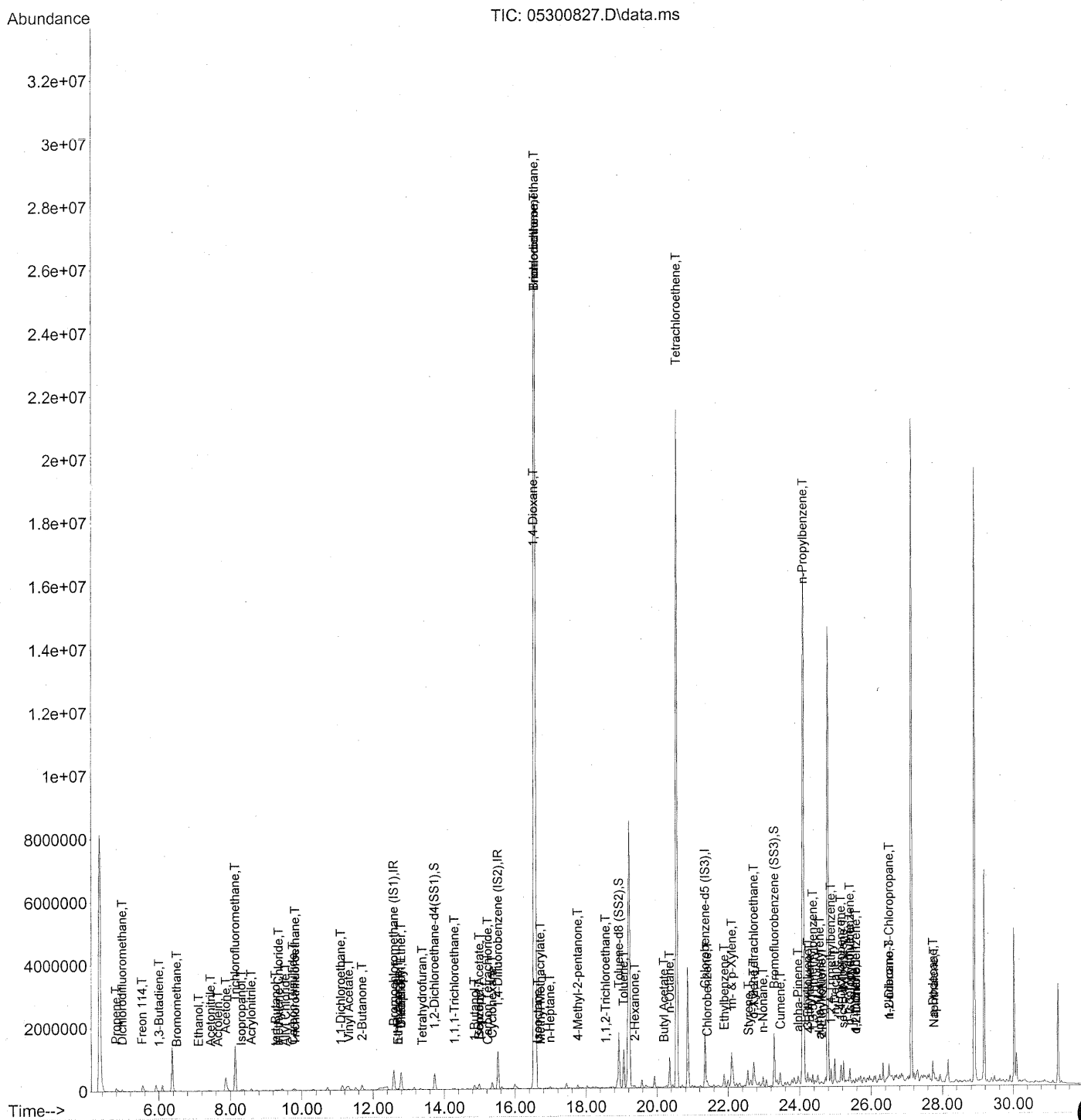
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	349563	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	1475986	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	672064	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	539061	22.256	ng	0.00
Spiked Amount				25.000		
				Recovery =	89.04%	✓
57) Toluene-d8 (SS2)	18.93	98	1507235	24.972	ng	0.00
Spiked Amount				25.000		
				Recovery =	99.88%	✓
73) Bromofluorobenzene (SS3)	23.29	174	644229	26.247	ng	0.00
Spiked Amount				25.000		
				Recovery =	105.00%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	54231	1.964	ng	# 75
3) Dichlorodifluoromethane	4.96	85	76695	1.507	ng	99
4) Chloromethane	5.29	50	522	N.D.✓		
5) Freon 114	5.52	135	1232	<del>0.049</del>	ng	78
6) Vinyl Chloride	0.00	62	0	N.D.✓		
7) 1,3-Butadiene	6.00	54	2820	0.115	ng	# 49
8) Bromomethane	6.50	94	941	0.051	ng	# 15
9) Chloroethane	0.00	64	0	N.D.✓		
10) Ethanol	7.11	45	36649m	1.994	ng	
11) Acetonitrile	7.45	41	23308	0.439	ng	96
12) Acrolein	7.66	56	15132	1.153	ng	95
13) Acetone	7.87	58	334253	17.763	ng	M 98
14) Trichlorofluoromethane	8.14	101	1609173	36.858	ng	100
15) Isopropanol	8.31	45	82316	1.372	ng	99
16) Acrylonitrile	8.59	53	6815	<del>0.238</del>	ng	NR 14
17) 1,1-Dichloroethene	9.16	96	156	N.D.✓		
18) tert-Butanol	9.27	59	23423m	0.459	ng	
19) Methylene Chloride	9.36	84	1677	0.080	ng	# 72
20) Allyl Chloride	9.54	41	1192	<del>0.042</del>	ng	# 44
21) Trichlorotrifluoroethane	9.81	151	23186	1.168	ng	92
22) Carbon Disulfide	9.76	76	99823	1.251	ng	97
23) trans-1,2-Dichloroethene	10.72	61	1027	N.D.✓		
24) 1,1-Dichloroethane	11.10	63	4578	0.125	ng	99
25) Methyl tert-Butyl Ether	11.21	73	467	N.D.✓		
26) Vinyl Acetate	11.31	86	32676	9.396	ng	# 1
27) 2-Butanone	11.69	72	60232	4.386	ng	96
28) cis-1,2-Dichloroethene	12.33	61	829	N.D.✓		
29) Diisopropyl Ether	12.79	87	67370	<del>4.003</del>	ng	NR # 1
30) Ethyl Acetate	12.70	61	1404	0.189	ng	# 71
31) n-Hexane	12.70	57	13323	0.356	ng	92

*Fac/05/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	634746	19.913 ng		100
34) Tetrahydrofuran	13.39	72	1988	0.151 ng	#	33
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.73	62	110	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	16120	0.480 ng		97
39) Isopropyl Acetate	14.99	61	1454	0.115 ng	#	1
40) 1-Butanol	14.85	56	130811	6.448 ng		86
41) Benzene	14.99	78	221936	2.872 ng		100
42) Carbon Tetrachloride	15.22	117	1959	0.066 ng		90
43) Cyclohexane	15.36	84	13576	0.452 ng	#	1
44) tert-Amyl Methyl Ether	15.79	73	2161	N.D.	✓	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	✓	
46) Bromodichloromethane	16.57	83	255905	<del>9.796 ng</del>		99
47) Trichloroethene	16.57	130	19814699	<del>835.796 ng</del>	See data	99
48) 1,4-Dioxane	16.53	88	6723	<del>0.461 ng</del>		27
49) Isooctane	16.64	57	32079	0.362 ng	#	54
50) Methyl Methacrylate	16.72	100	593	<del>0.077 ng</del>		1
51) n-Heptane	16.98	71	16781	0.817 ng	#	75
52) cis-1,3-Dichloropropene	17.85	75	140	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	36341	1.771 ng		82
54) trans-1,3-Dichloropropene	18.42	75	360	N.D.	✓	
55) 1,1,2-Trichloroethane	18.55	97	1274	<del>0.067 ng</del>		1
58) Toluene	19.06	91	859139	10.472 ng		98
59) 2-Hexanone	19.37	43	49112	0.869 ng	#	67
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	8099	0.141 ng	#	25
63) n-Octane	20.35	57	194546	10.722 ng		88
64) Tetrachloroethene	20.56	166	9508882	<del>391.677 ng</del>	See data	97
65) Chlorobenzene	21.41	112	39189	0.712 ng		93
66) Ethylbenzene	21.89	91	379176	4.031 ng		95
67) m- & p-Xylene	22.10	91	1056906	16.796 ng		92
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.57	104	6733	0.120 ng	#	58
70) o-Xylene	22.71	91	331521	4.880 ng		93
71) n-Nonane	22.98	43	150633	3.123 ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.72	83	2419	<del>0.085 ng</del>	NR #	1
74) Cumene	23.46	105	21250	0.235 ng		98
75) alpha-Pinene	23.96	93	132894	2.841 ng		100
76) n-Propylbenzene	24.10	91	66621	0.579 ng	#	1
77) 3-Ethyltoluene	24.23	105	172440	1.791 ng		100
78) 4-Ethyltoluene	24.28	105	76324	0.850 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	79538	0.981 ng		98

*See data*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	5239	0.119	ng	# 54
81) 2-Ethyltoluene	24.61	105	54517	0.559	ng	96
82) 1,2,4-Trimethylbenzene	24.88	105	156305	1.893	ng	88
83) n-Decane	24.98	57	310397	6.833	ng	76
84) Benzyl Chloride	25.05	91	1613	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	1591	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	173554	3.468	ng	100
87) sec-Butylbenzene	25.21	105	5913	0.056	ng	89
88) p-Isopropyltoluene	25.40	119	64775	0.746	ng	94
89) 1,2,3-Trimethylbenzene	25.41	105	58154	0.720	ng	97
90) 1,2-Dichlorobenzene	25.58	146	3570	0.073	ng	100
91) d-Limonene	25.58	68	35255	1.072	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.50	157	1003	0.066	ng	46
93) n-Undecane	26.50	57	272643	5.735	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	1203	N.D.	✓	
95) Naphthalene	27.77	128	162124	1.489	ng	90
96) n-Dodecane	27.74	57	220116	4.656	ng	78
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

NO: 100  
 89  
 94  
 97  
 100  
 99  
 46  
 85  
 90  
 78

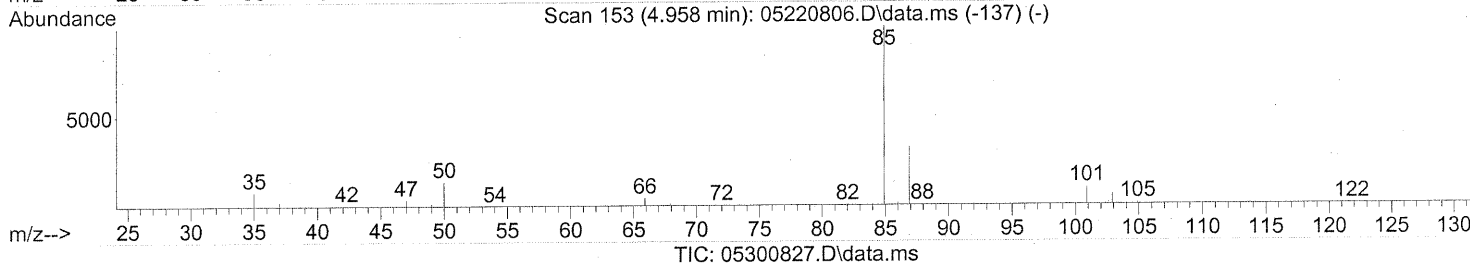
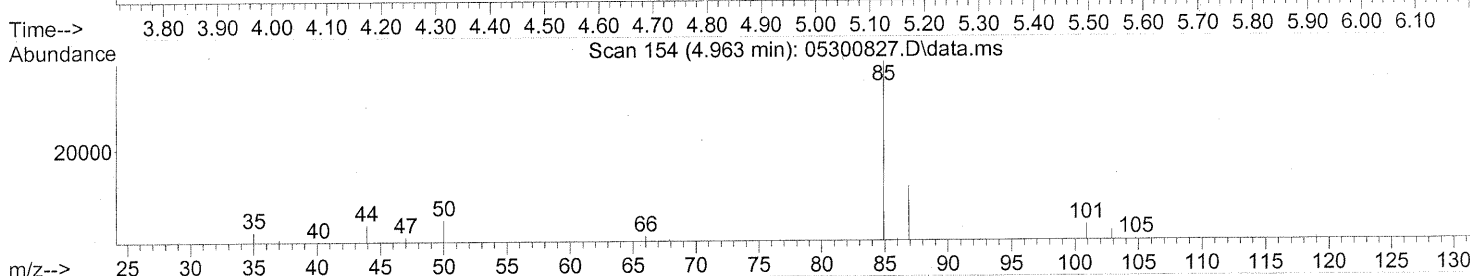
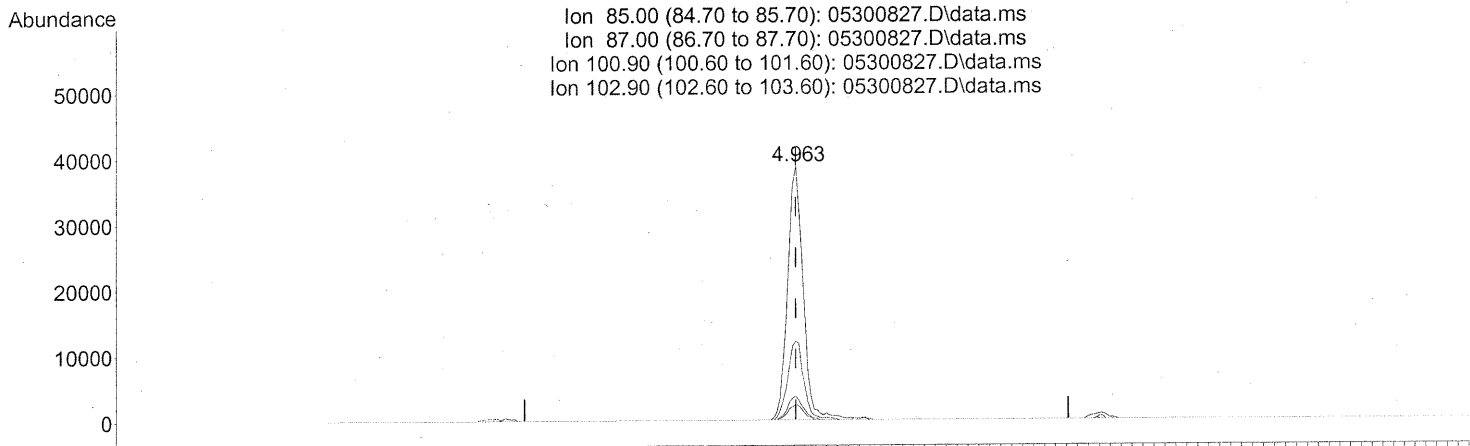
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Fac/05/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (+0.000) 1.51ng

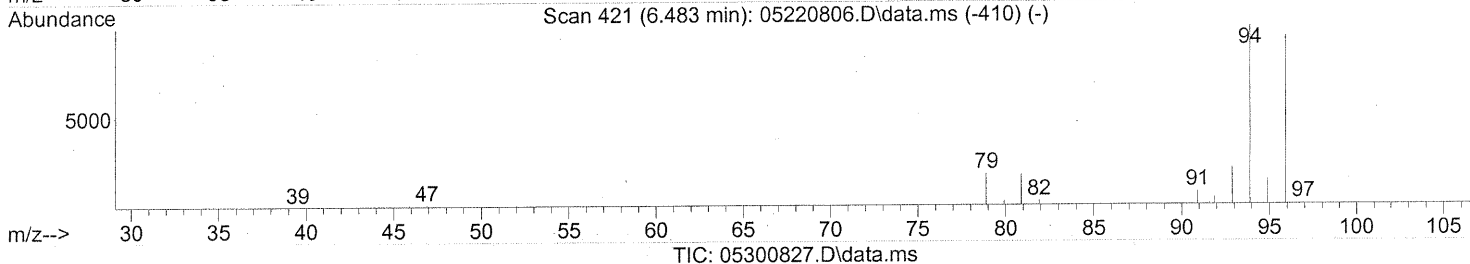
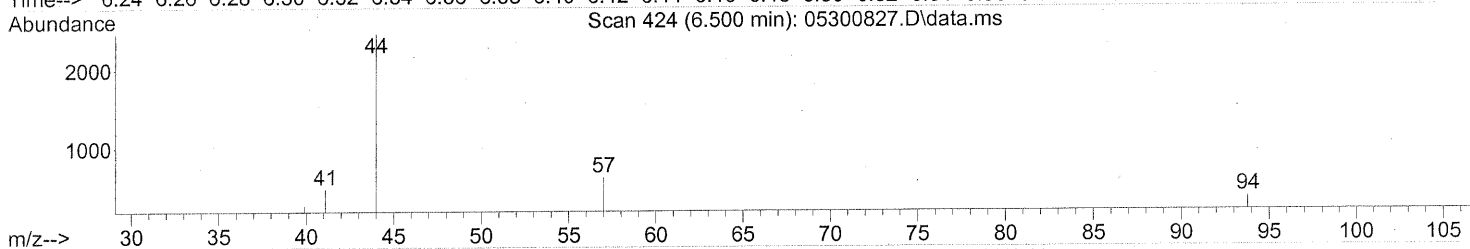
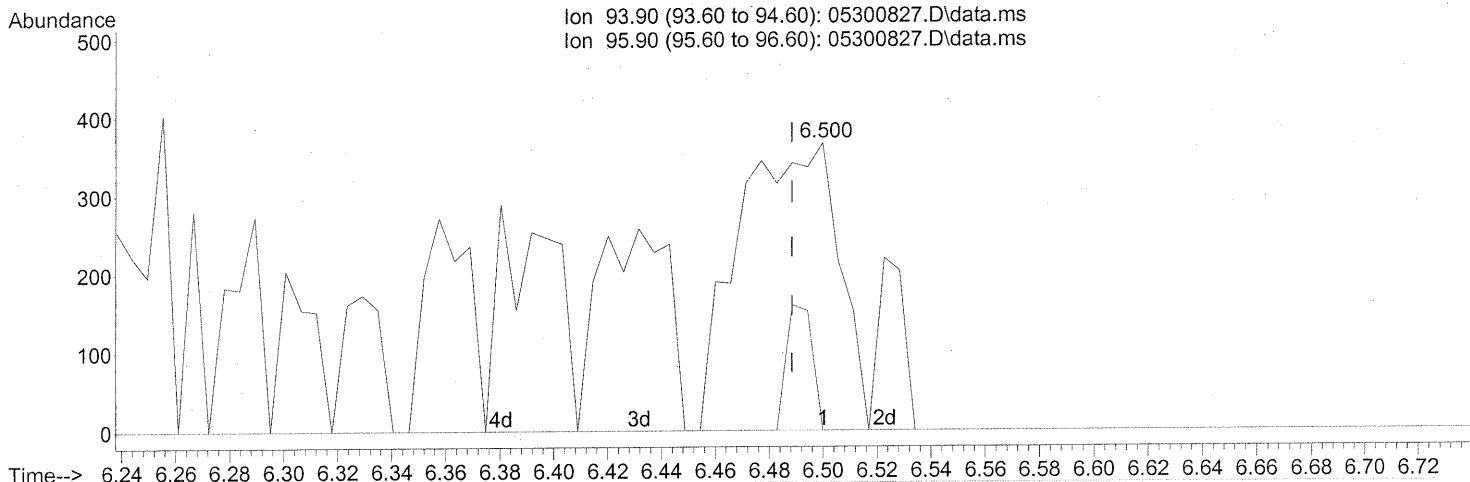
response 76695

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.00
100.90	9.30	8.99
102.90	6.00	5.77

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(8) Bromomethane (T)  
 6.500min (+0.011) 0.05ng  
 response 941

Ion	Exp%	Act%
93.90	100	100
95.90	92.30	11.26#
0.00	0.00	0.00
0.00	0.00	0.00

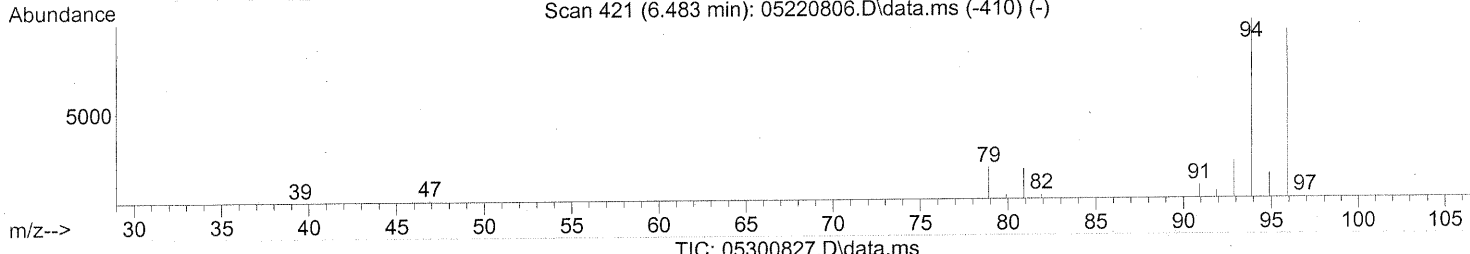
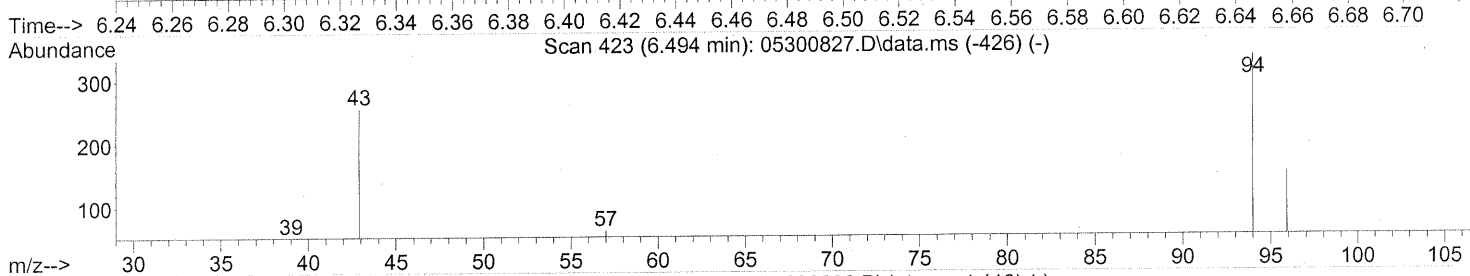
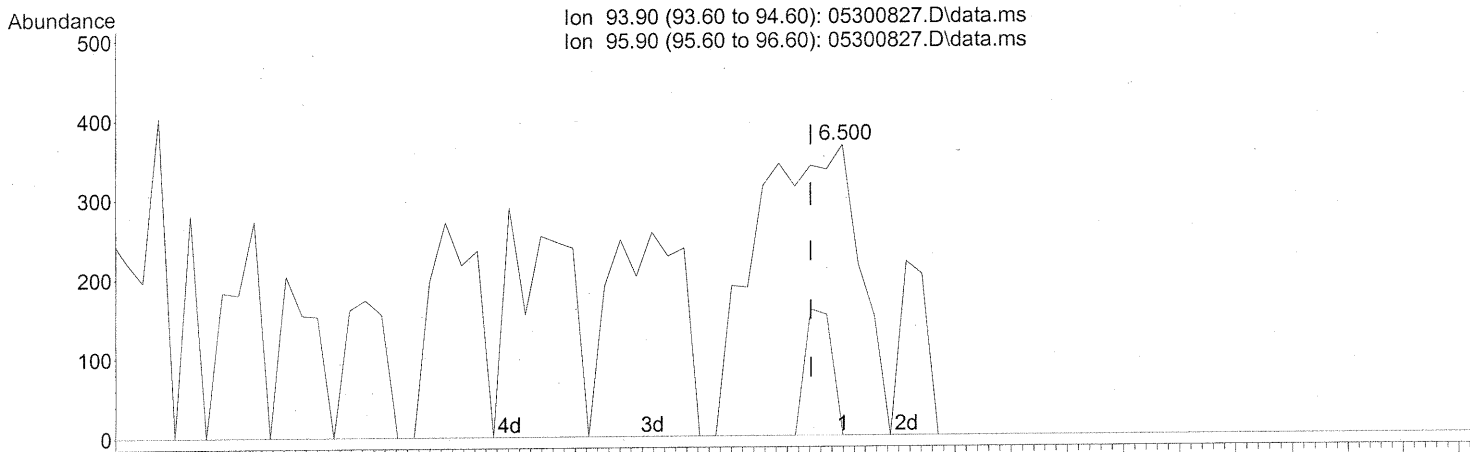
*BEFORE SUBTRACTION*



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(8) Bromomethane (T)  
 6.500min (+0.011) 0.05ng  
 response 941

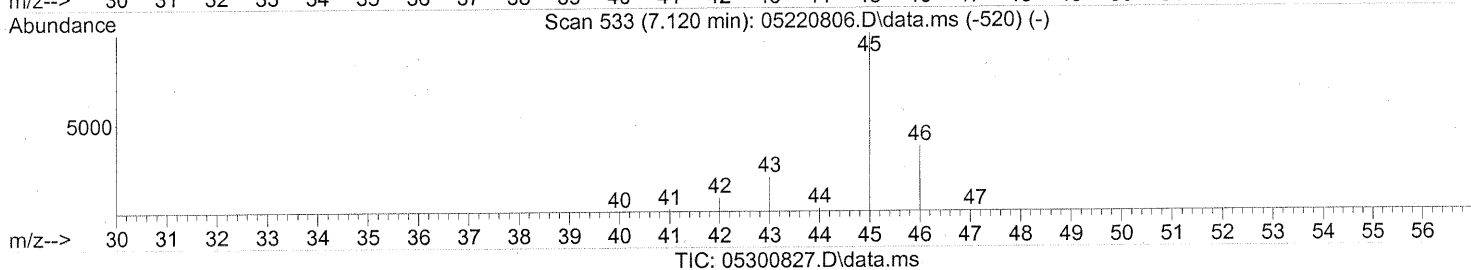
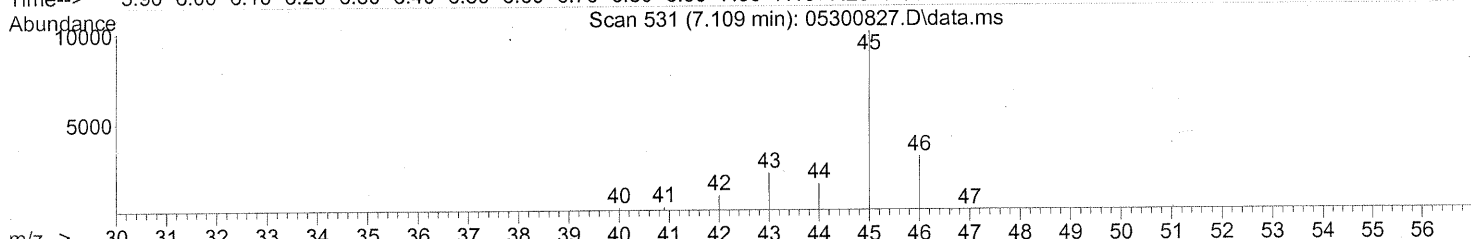
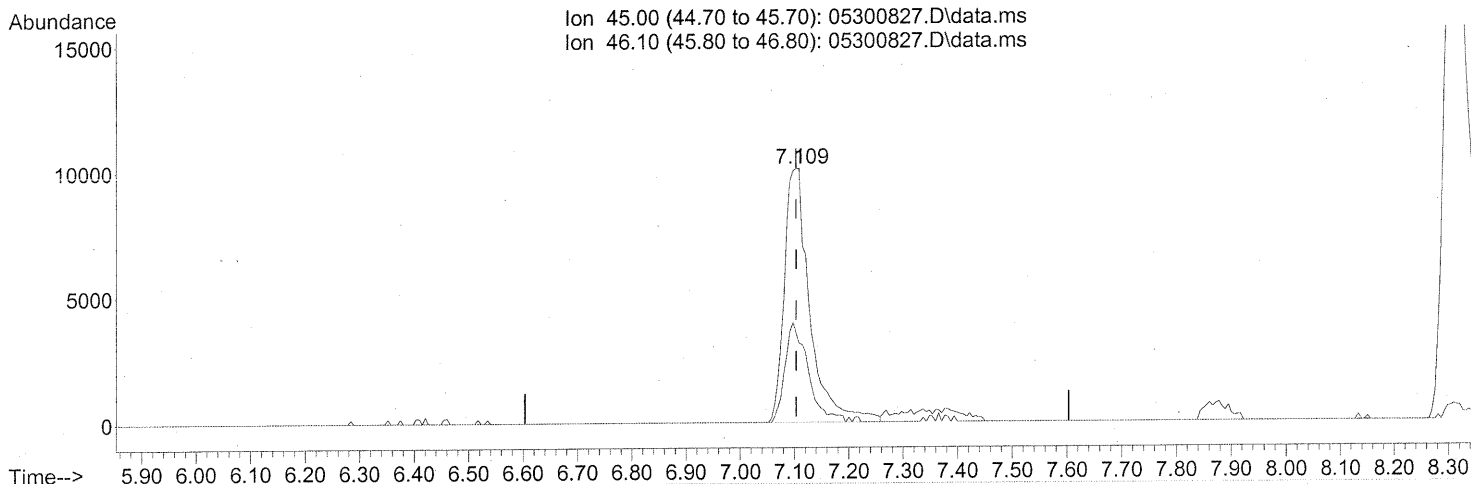
Ion	Exp%	Act%
93.90	100	100
95.90	92.30	11.26#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 6/5/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300827.D  
Acq On : 31 May 2008 5:28 am  
Operator : WA  
Sample : P0801548-011 (1000ml)  
Misc : ENSR SG47B-05 (-3.7,3.6)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:33 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



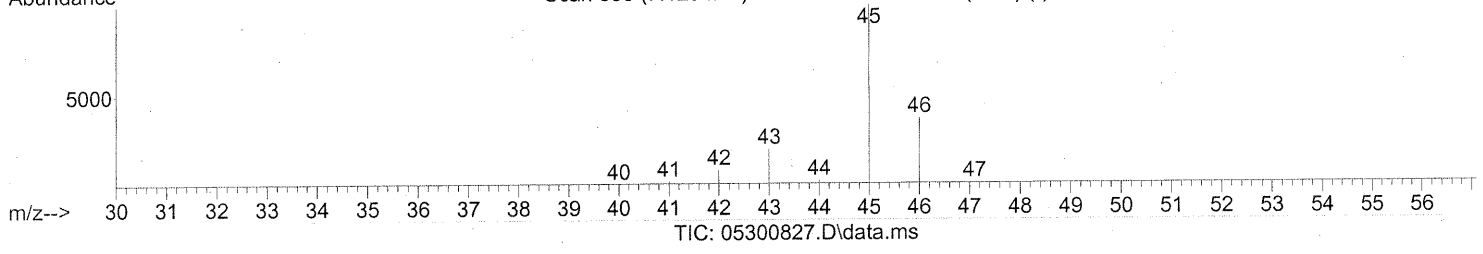
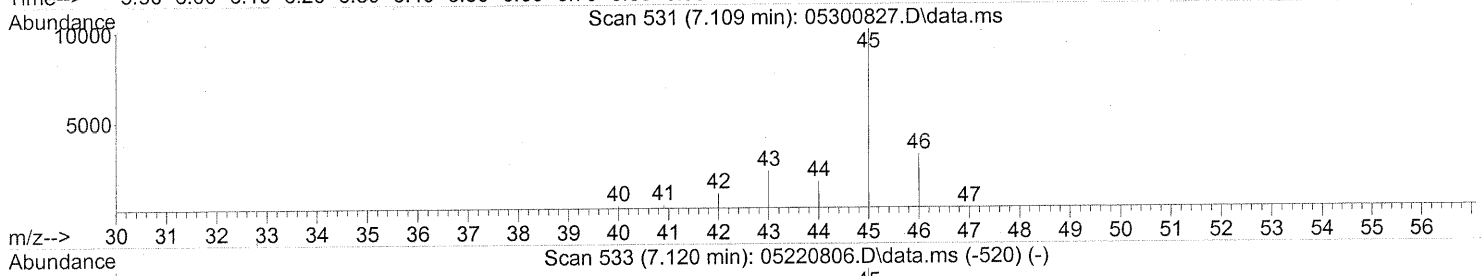
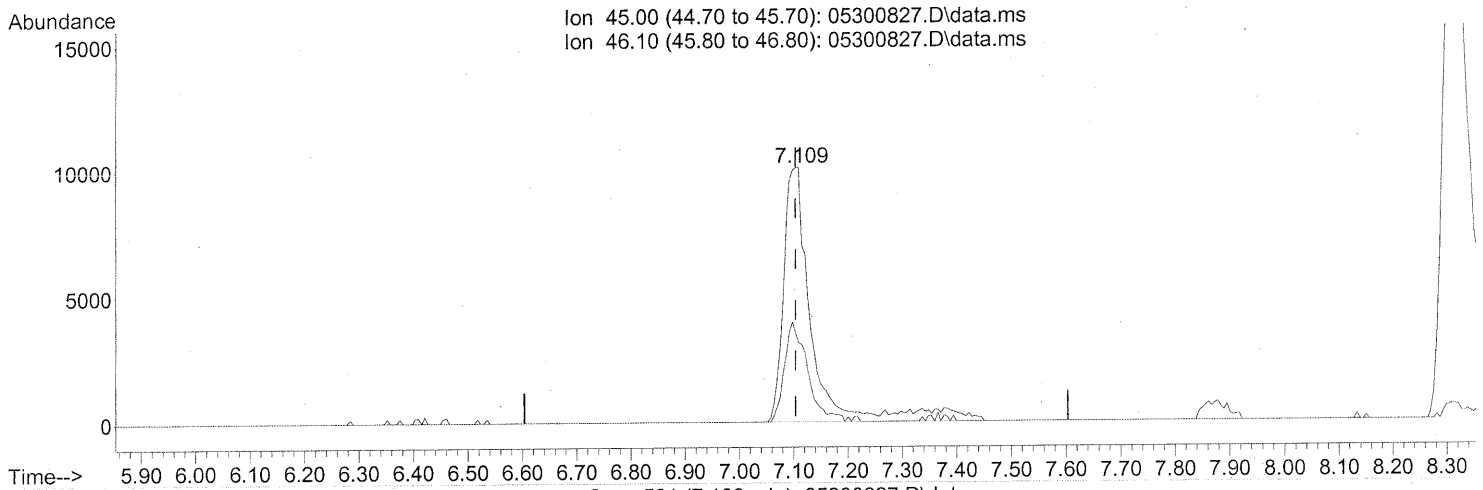
(10) Ethanol (T)  
7.109min (+0.006) 1.78ng  
response 32799  
Ion Exp% Act%  
45.00 100 100  
46.10 41.00 35.49  
0.00 0.00 0.00  
0.00 0.00 0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:33 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.109min (+0.006) 1.99ng m  
 response 36649

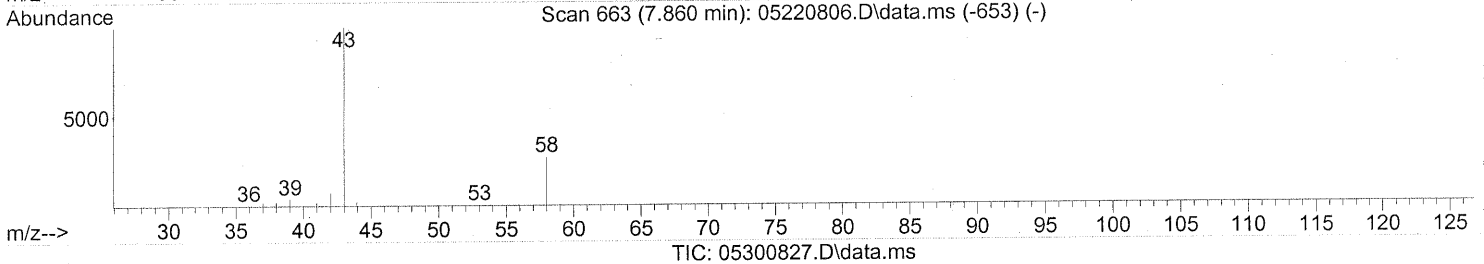
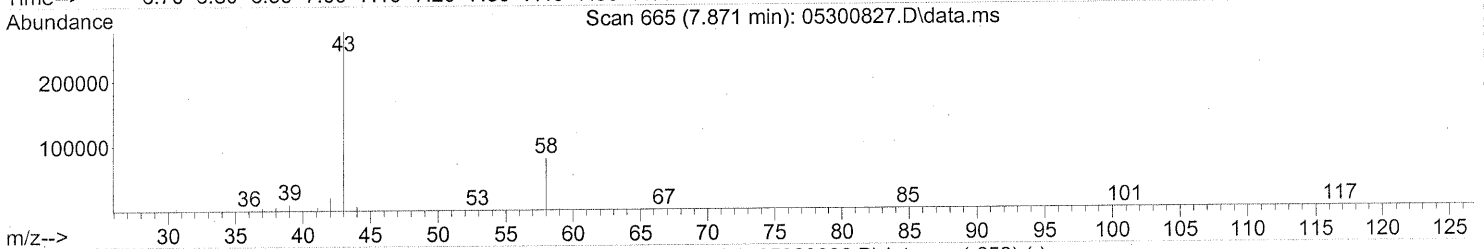
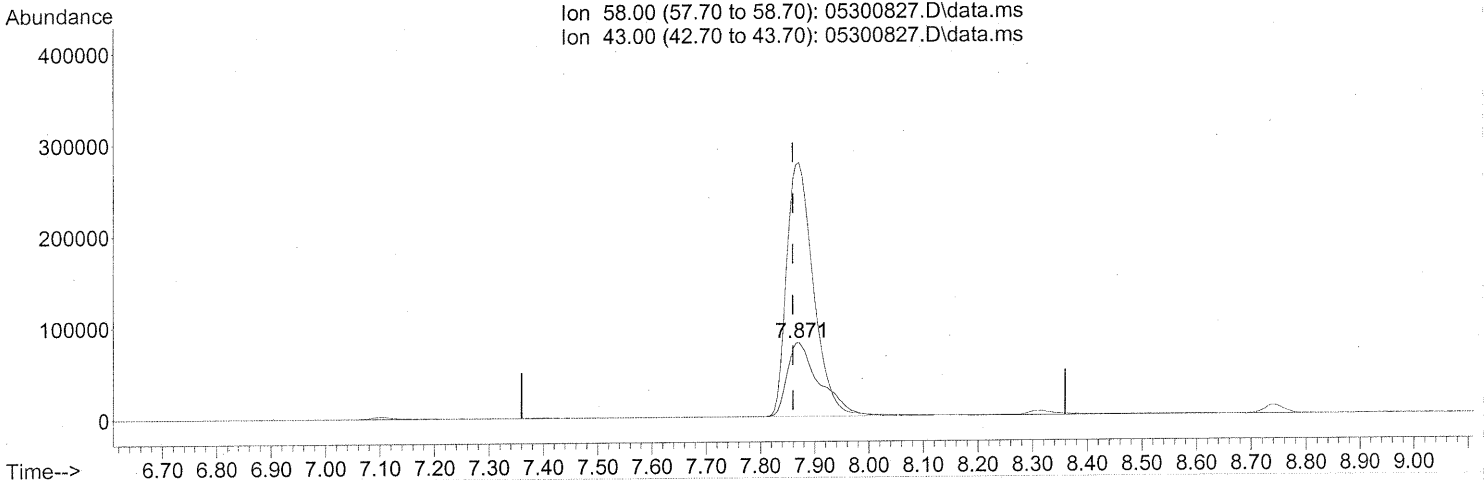
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.76
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
 6/5/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



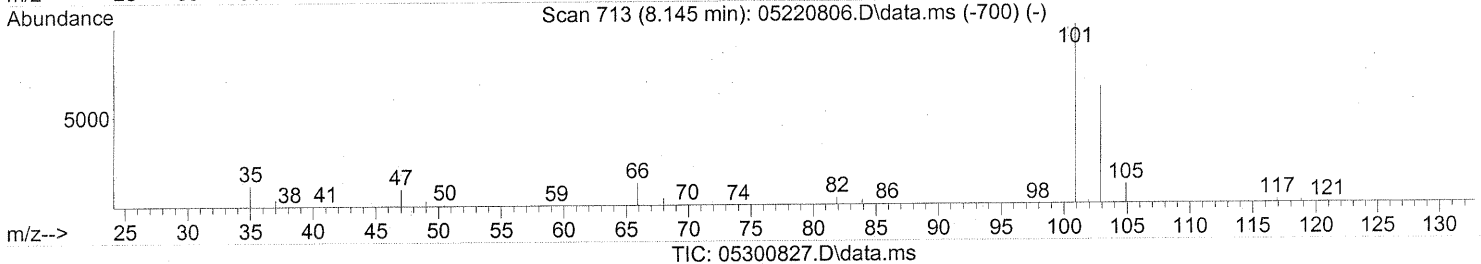
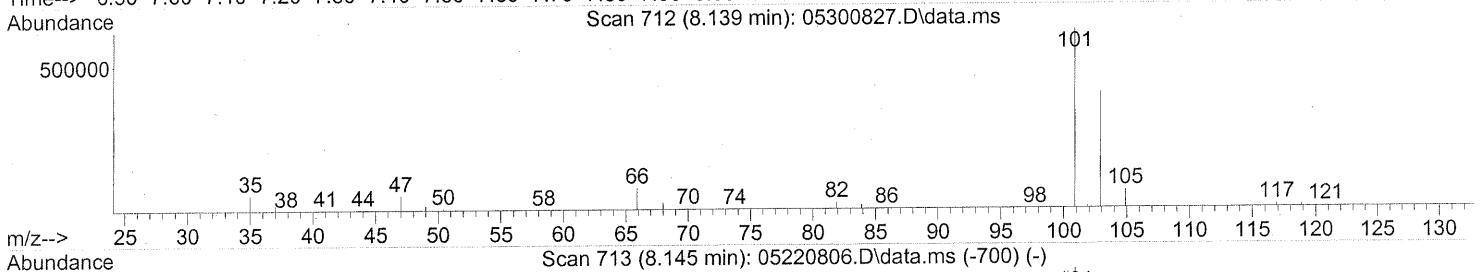
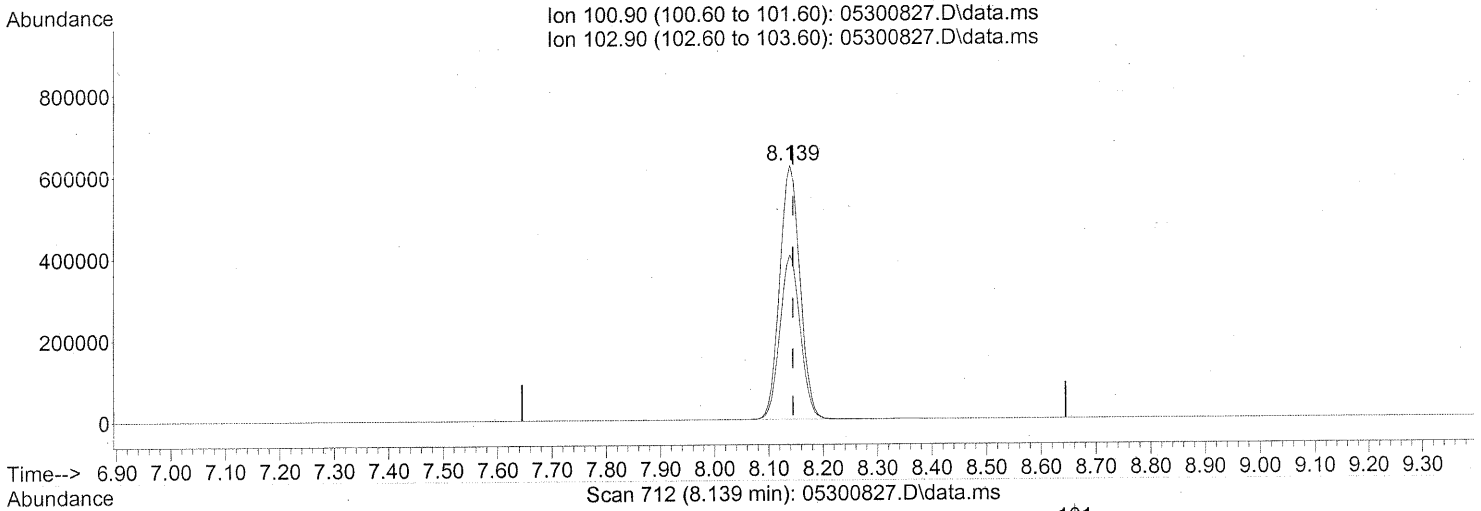
(13) Acetone (T)  
 7.871min (+0.011) 17.76ng  
 response 334253

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	286.81
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 36.86ng

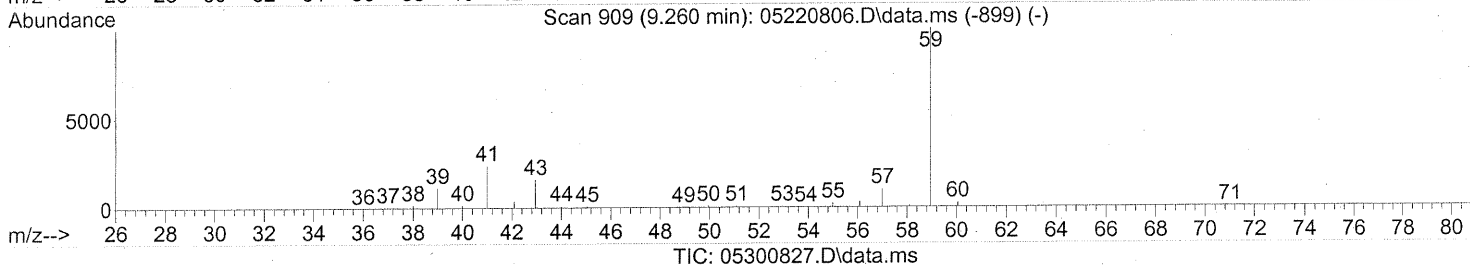
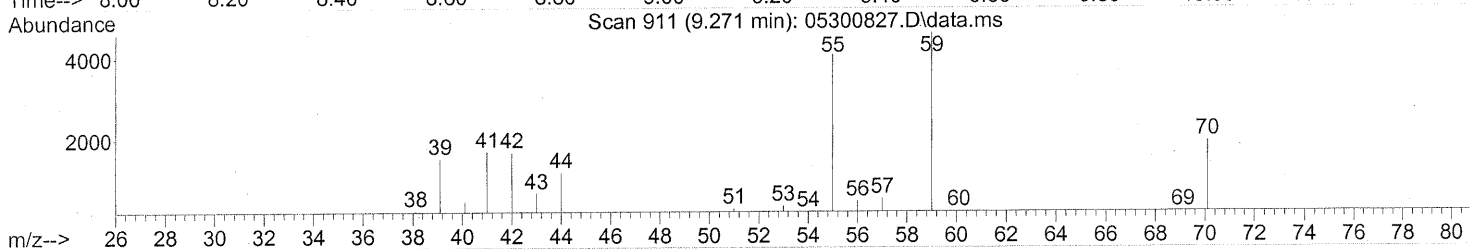
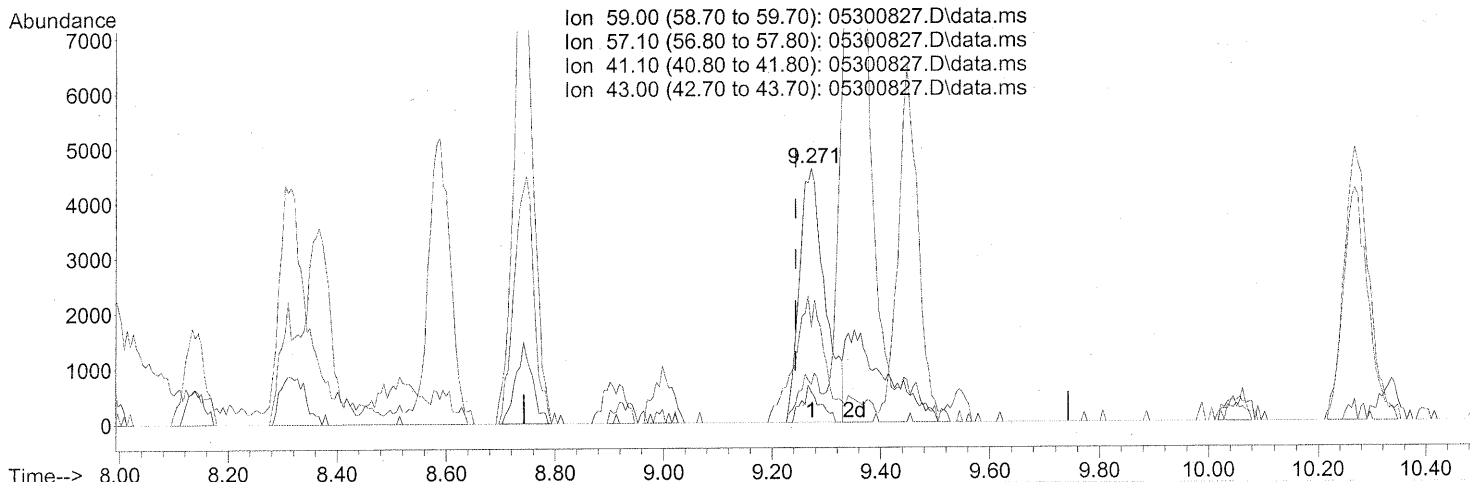
response 1609173

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:33 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.29ng  
 response 14944

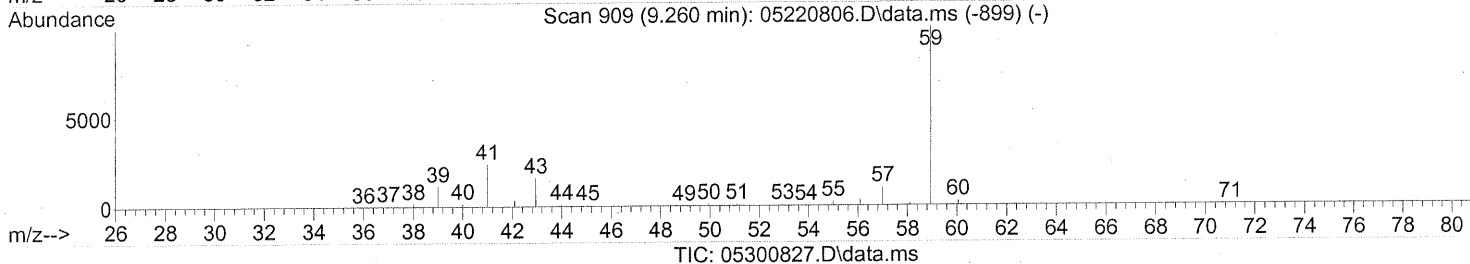
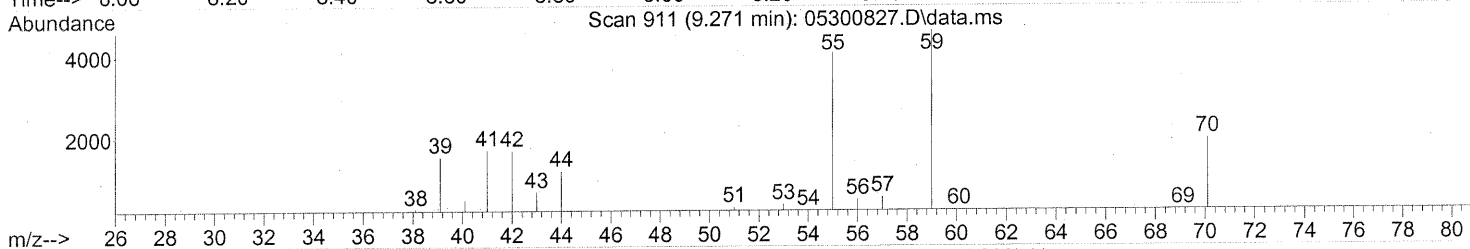
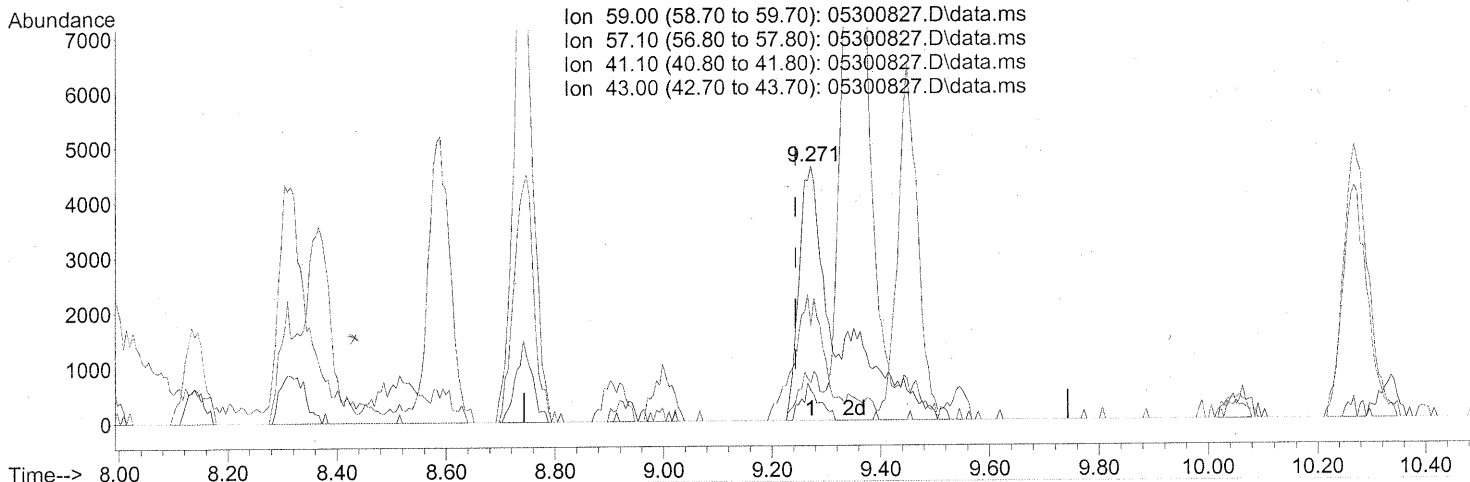
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	10.17
41.10	20.10	58.38#
43.00	12.30	15.82

SPLIT PEAK/TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:33 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.46ng m

response 23423

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.49
41.10	20.10	37.25
43.00	12.30	10.09

INT: THE WHOLE PEAK

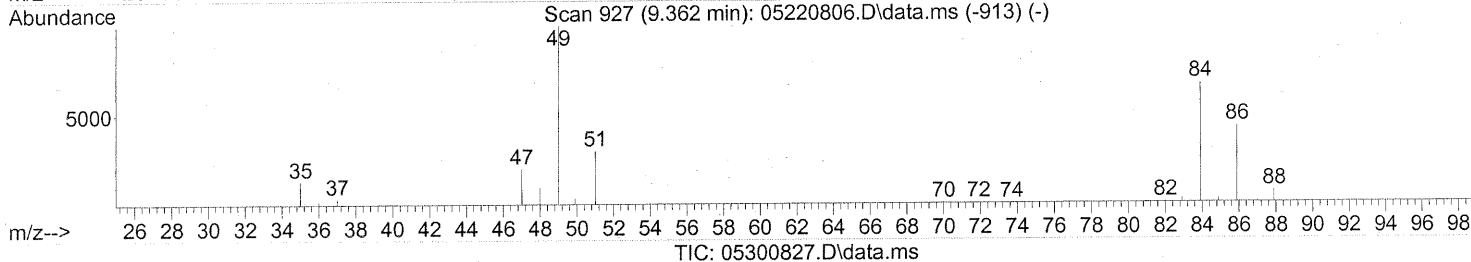
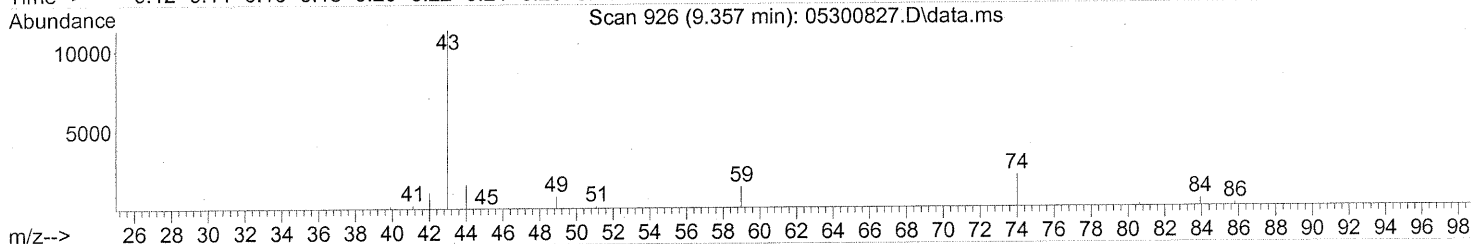
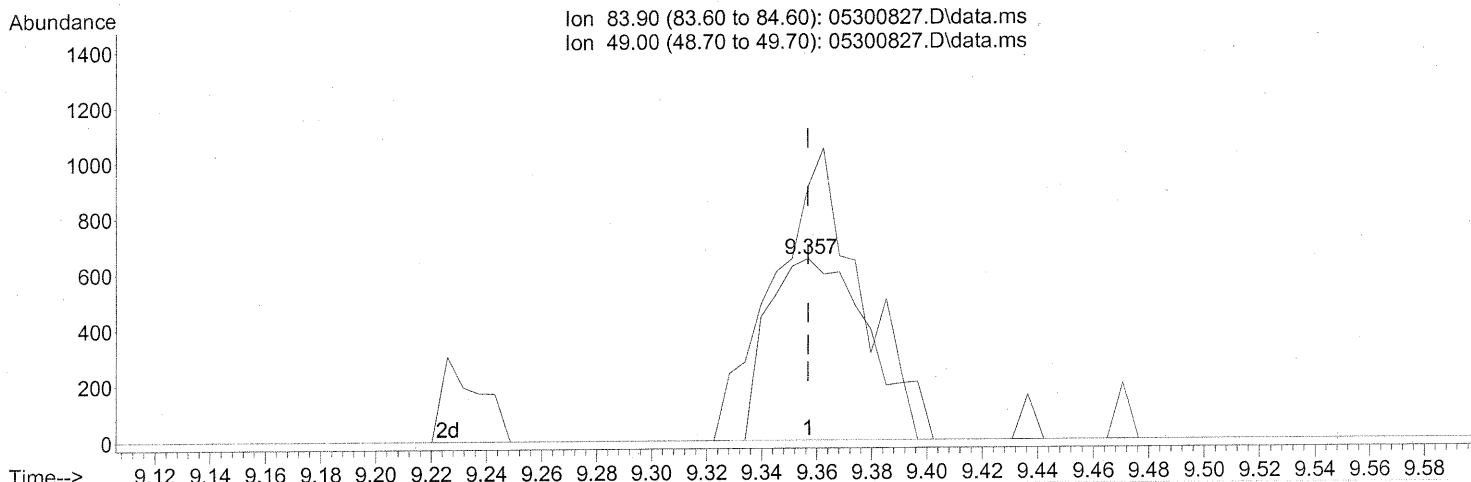
*Handwritten signature*

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (+0.000) 0.08ng

response 1677

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	133.51#
0.00	0.00	0.00
0.00	0.00	0.00

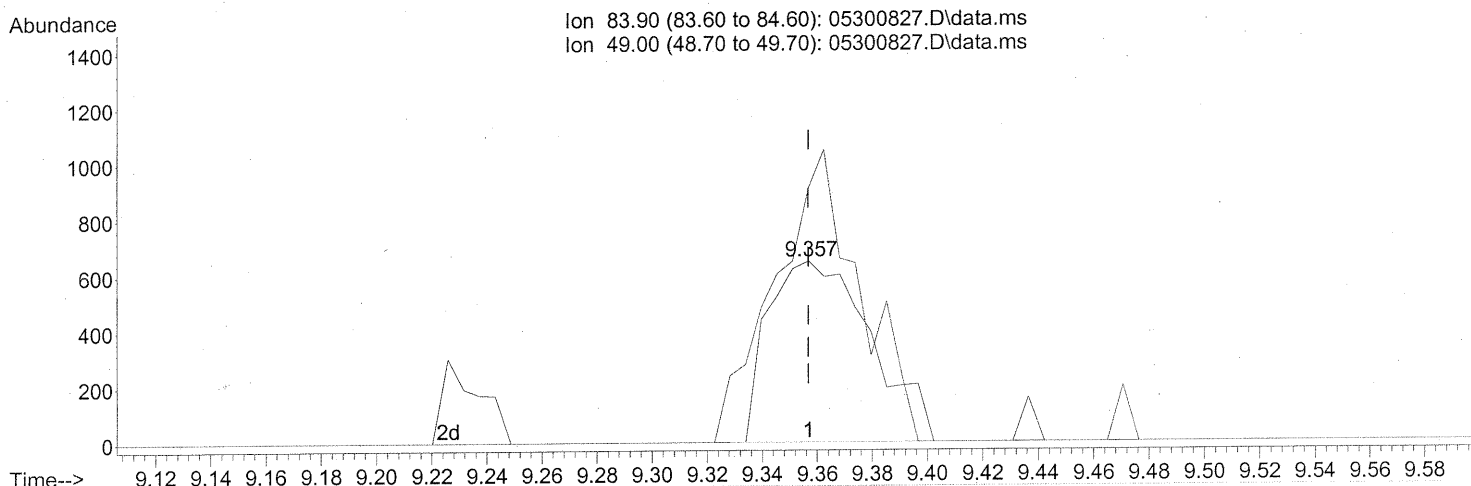
~~BEFORE~~ SUBTRACTION



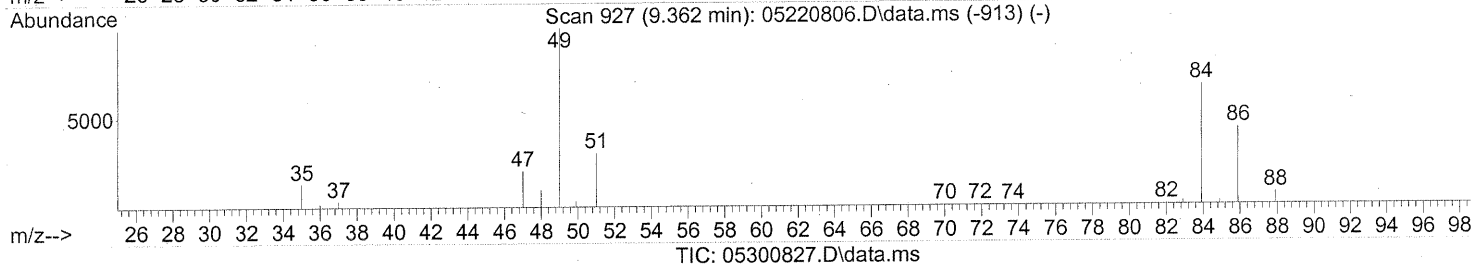
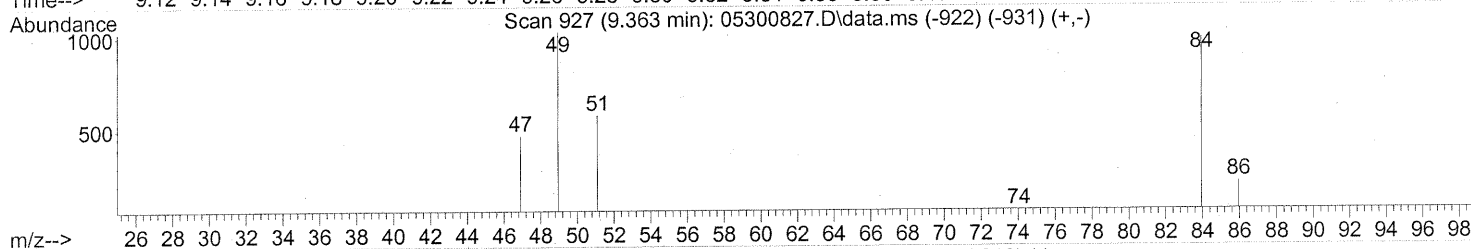
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 83.90 (83.60 to 84.60): 05300827.D\data.ms  
 Ion 49.00 (48.70 to 49.70): 05300827.D\data.ms



(19) Methylene Chloride (T)

9.357min (+0.000) 0.08ng

response 1677

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	133.51#
0.00	0.00	0.00
0.00	0.00	0.00

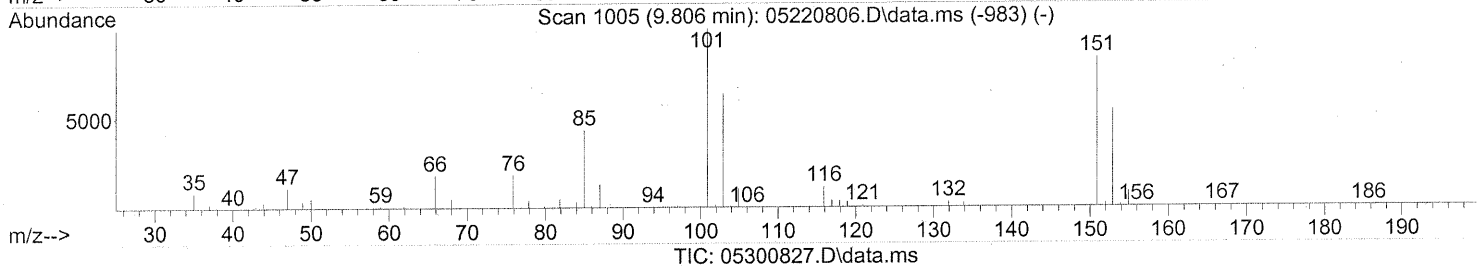
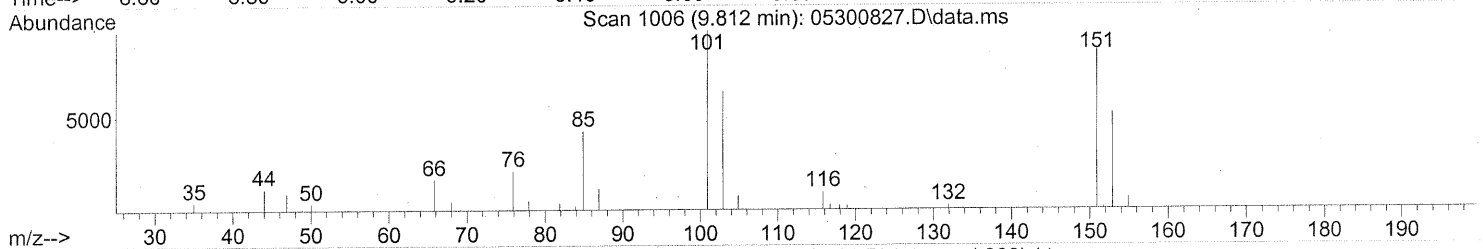
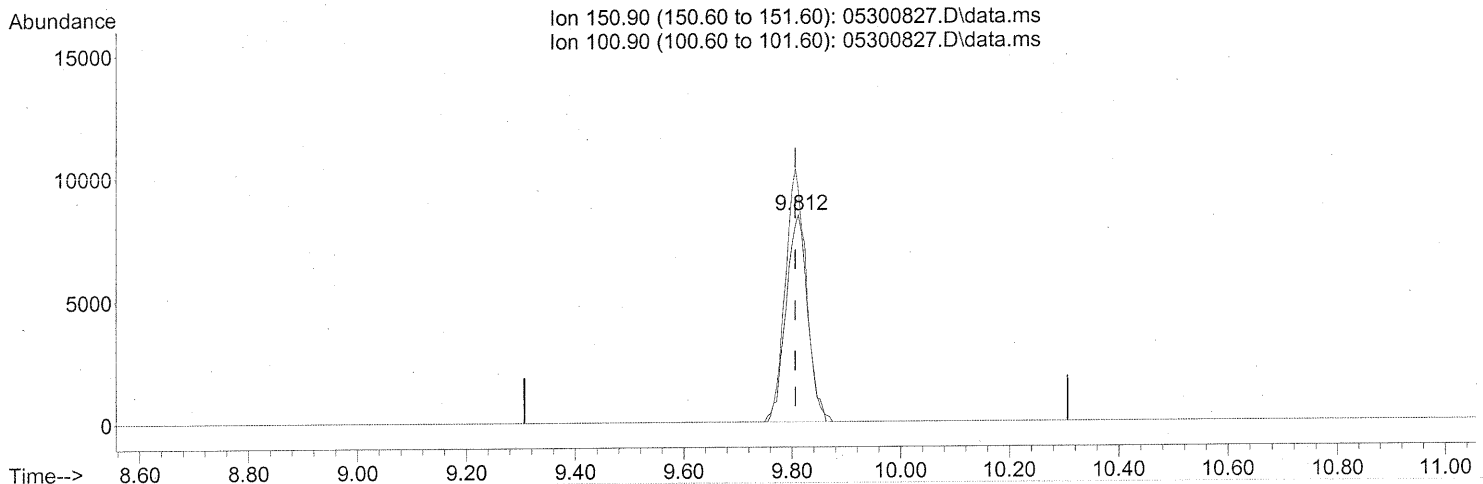
*AFTER SUBTRACTION*  
*6/6/08*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 1.17ng

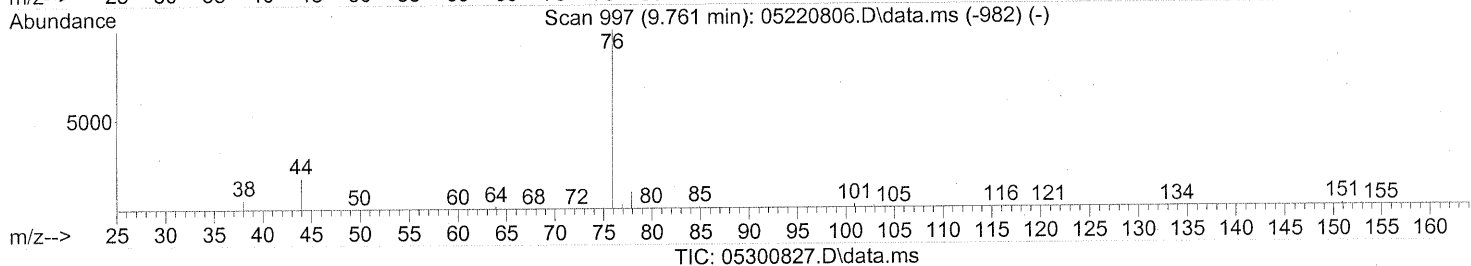
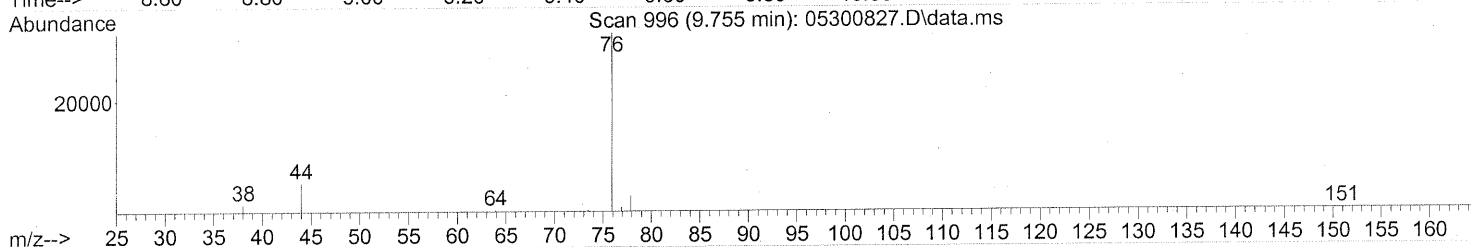
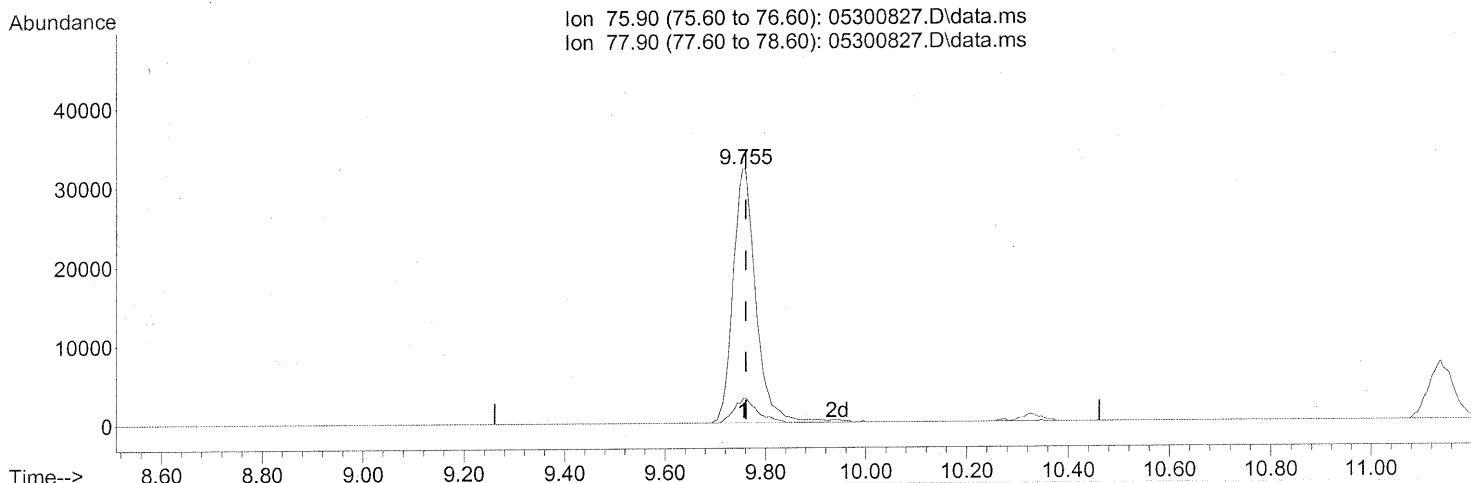
response 23186

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	117.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 1.25ng

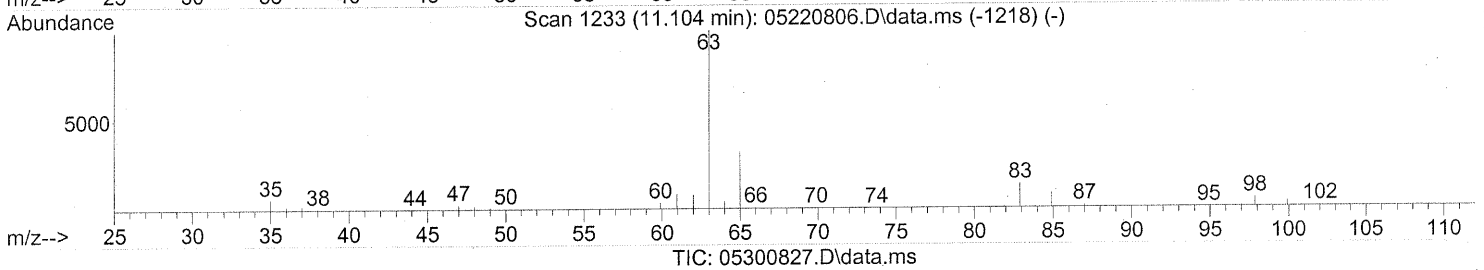
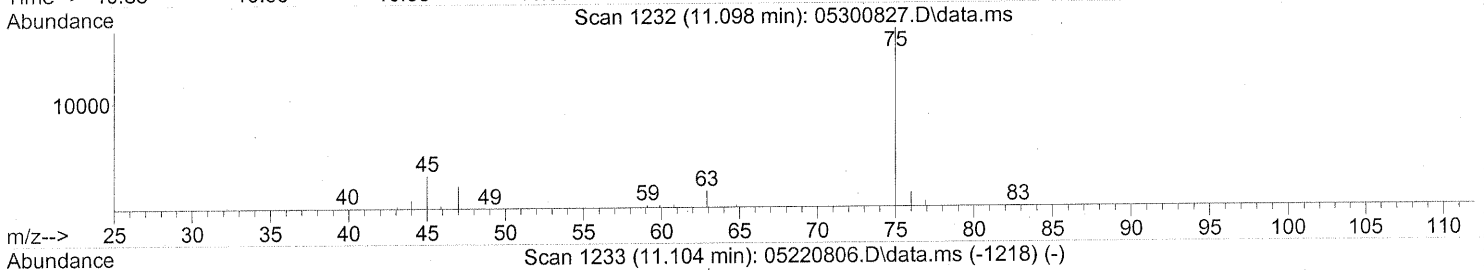
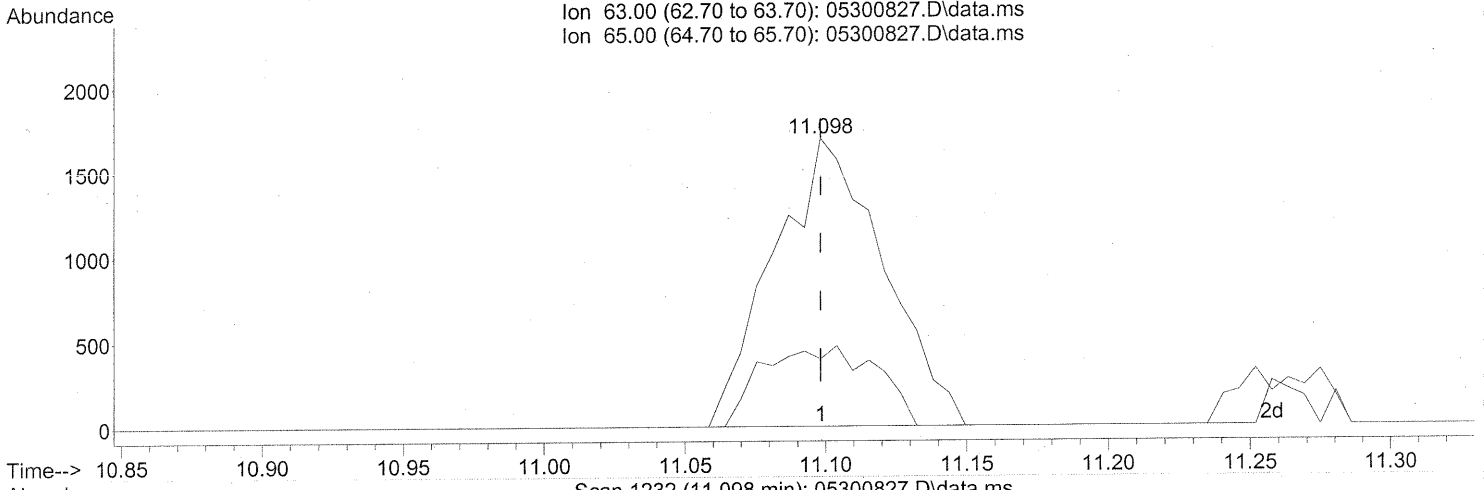
response 99823

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (+0.000) 0.13ng

response 4578

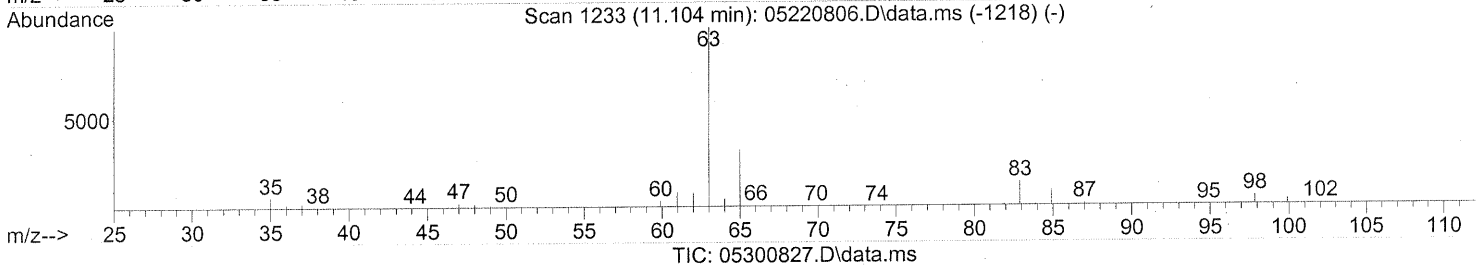
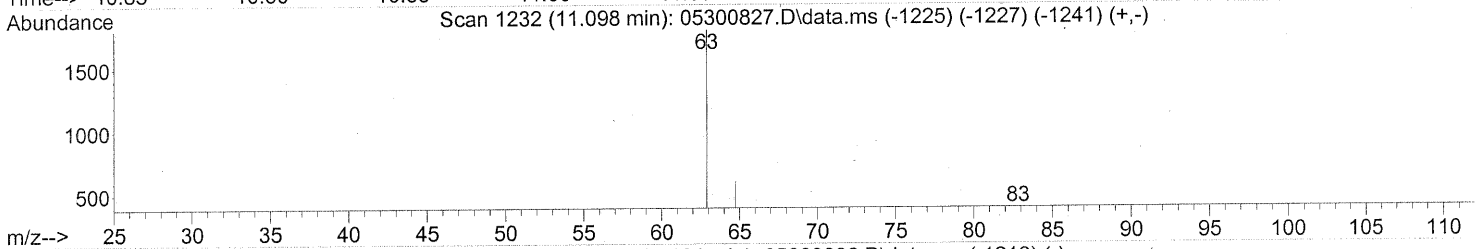
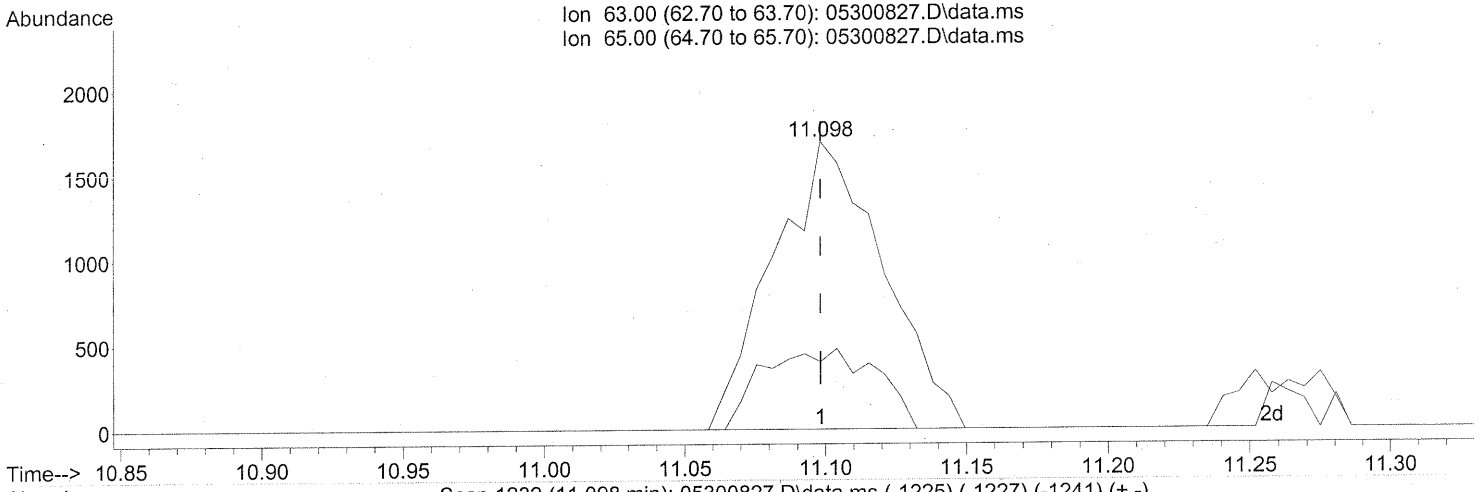
Ion	Exp%	Act%
63.00	100	100
65.00	29.10	28.59
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (+0.000) 0.13ng

response 4578

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	28.59
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

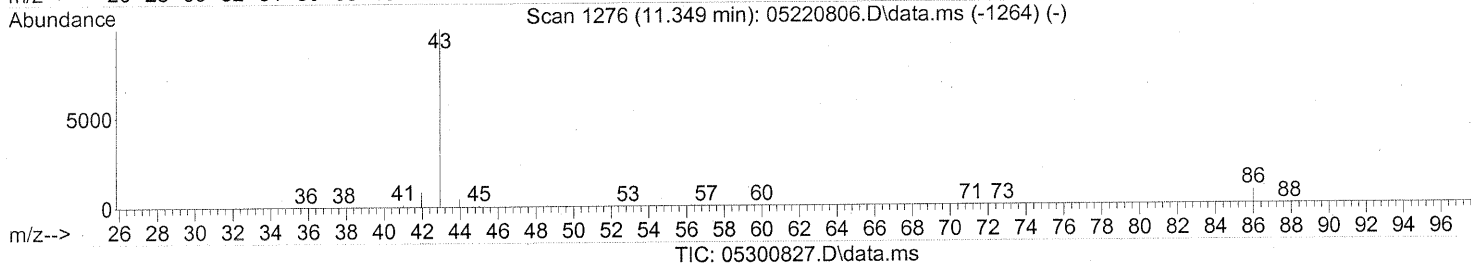
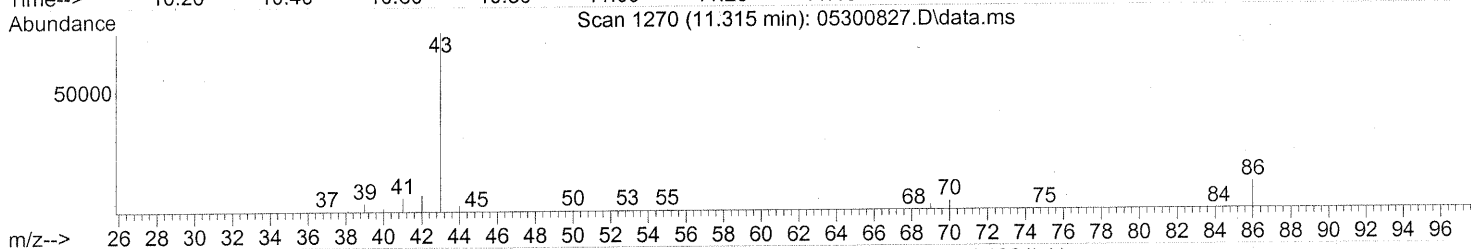
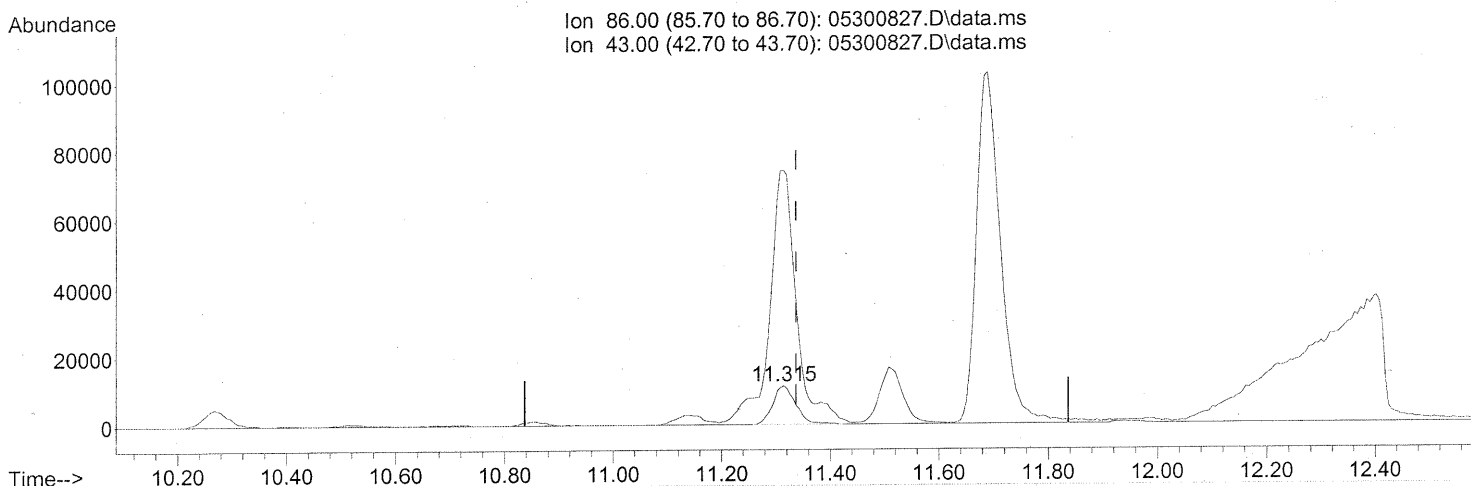
*B 06/05/08*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.315min (-0.022) 9.40ng

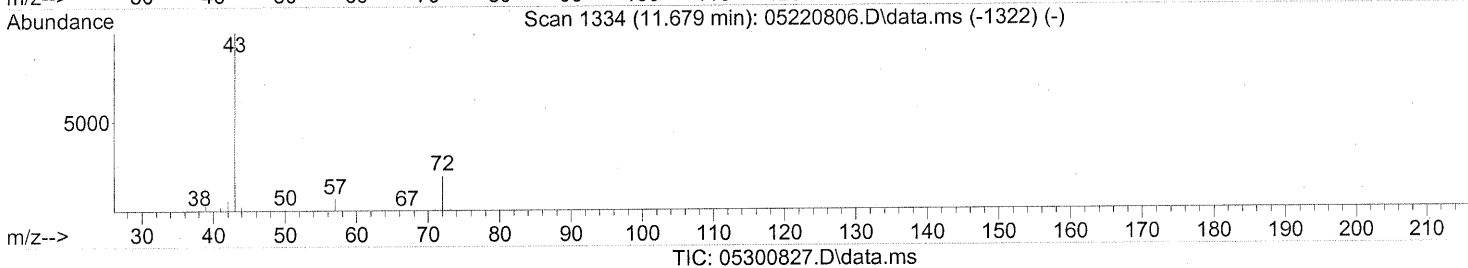
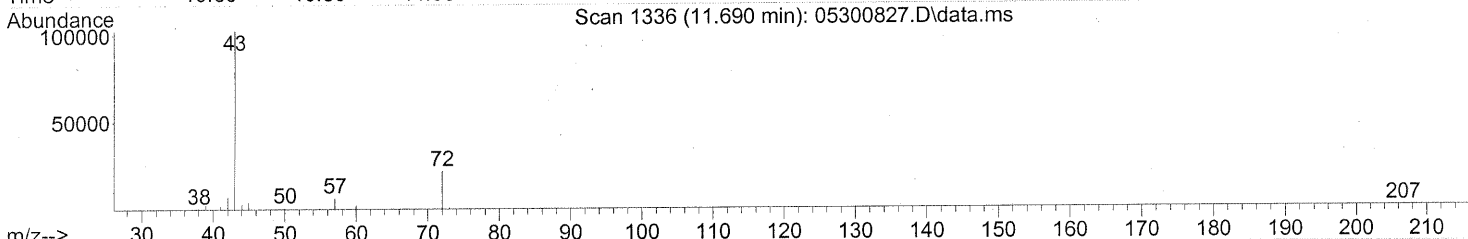
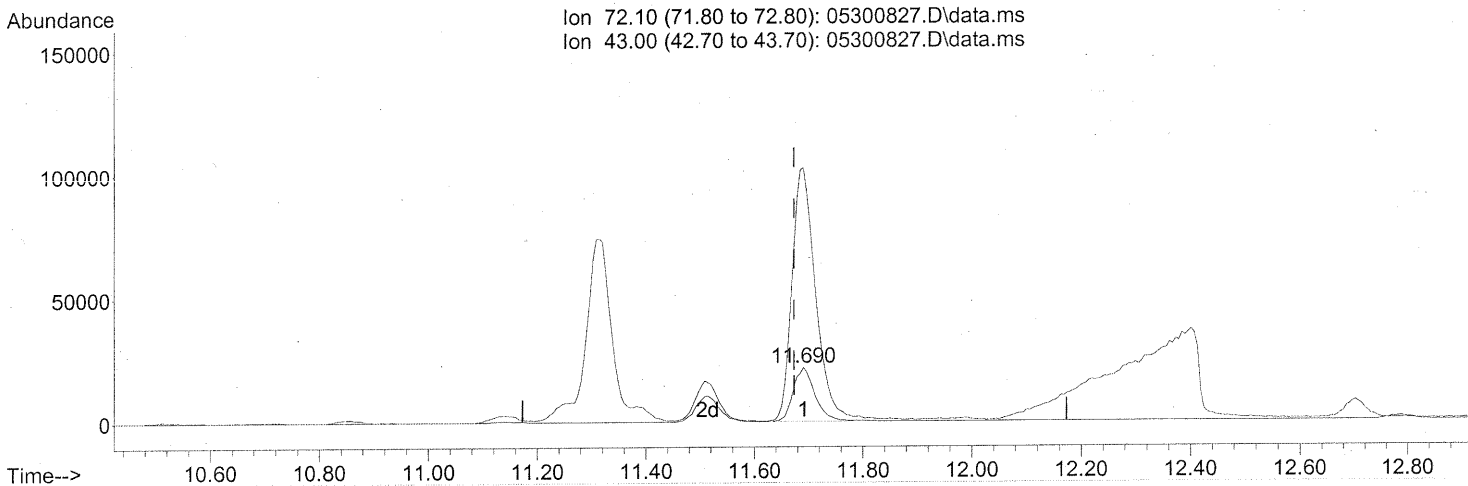
response 32676

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	766.41#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



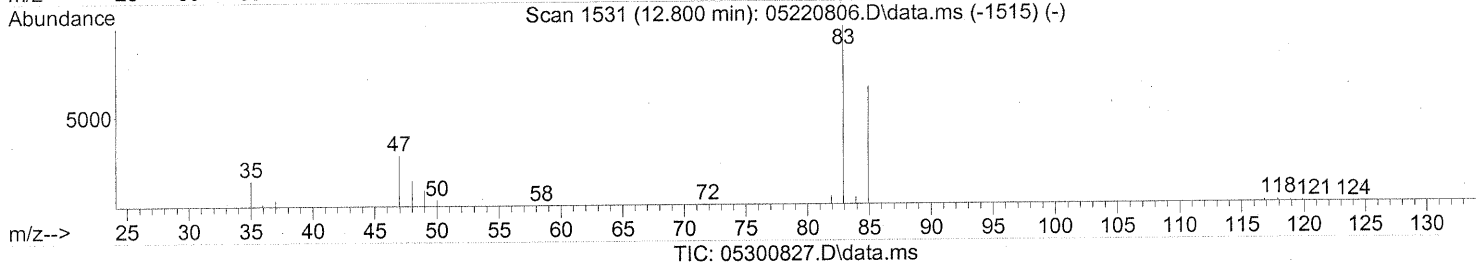
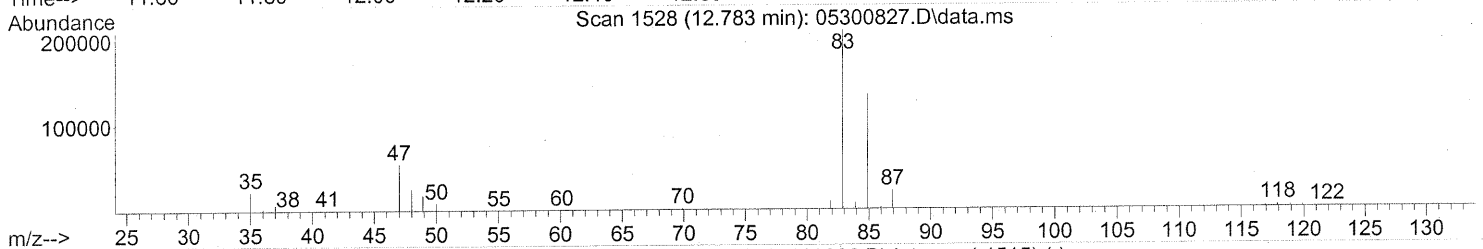
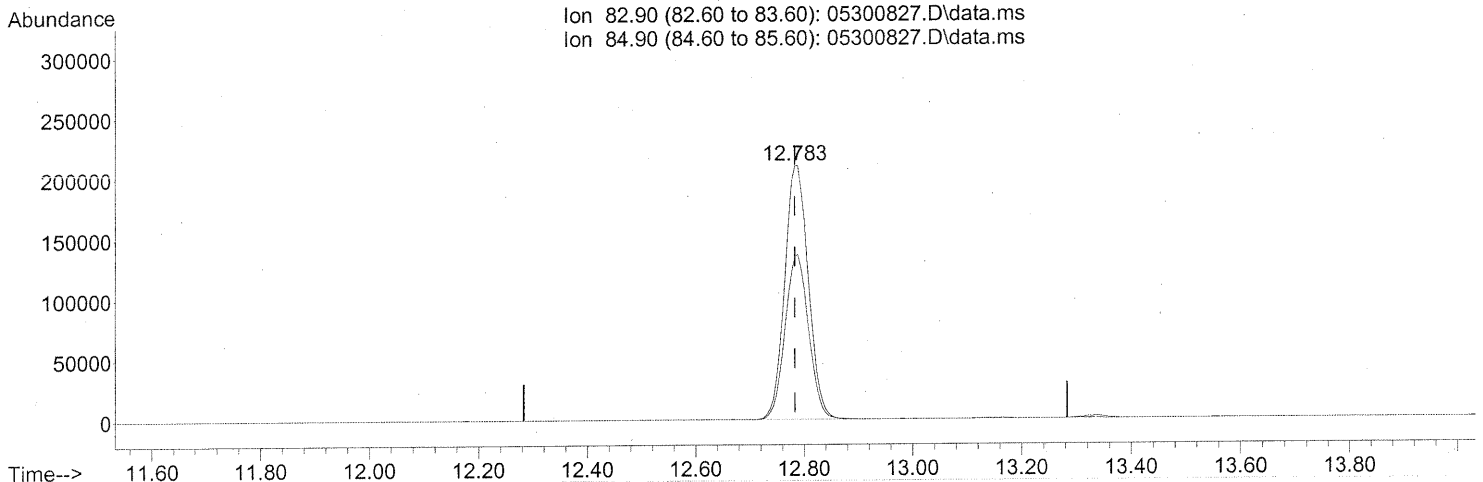
(27) 2-Butanone (T)  
 11.690min (+0.017) 4.39ng  
 response 60232

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	517.68
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300827.D  
Acq On : 31 May 2008 5:28 am  
Operator : WA  
Sample : P0801548-011 (1000ml)  
Misc : ENSR SG47B-05 (-3.7,3.6)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(32) Chloroform (T)

12.783min (+0.000) 19.91ng

response 634746

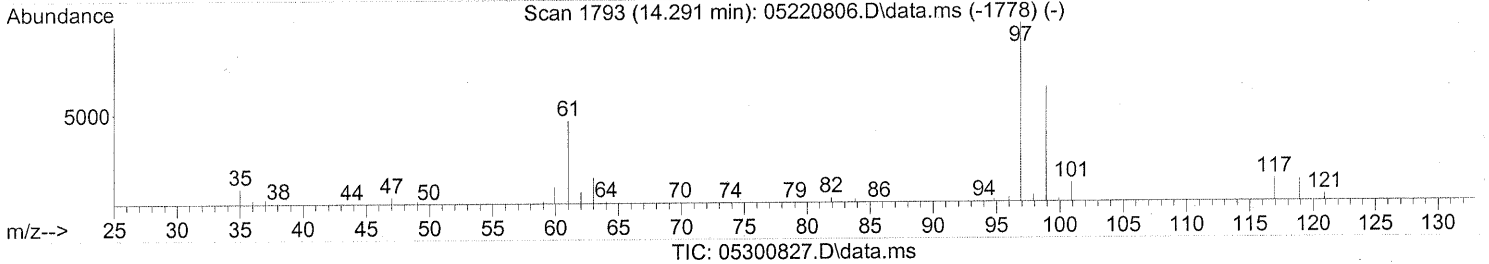
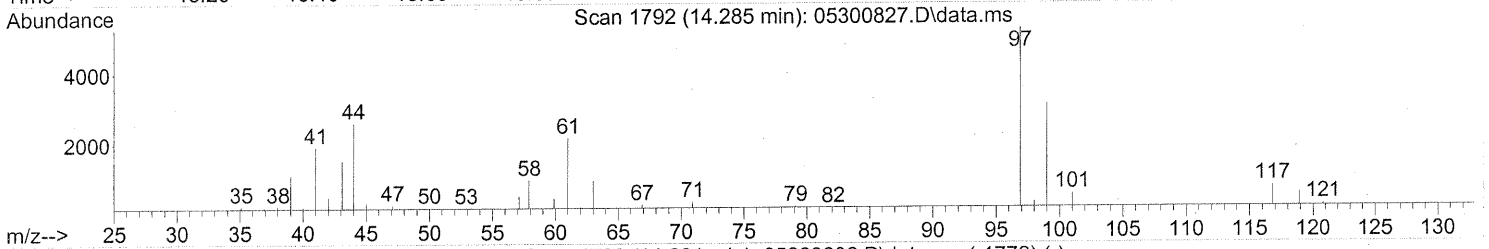
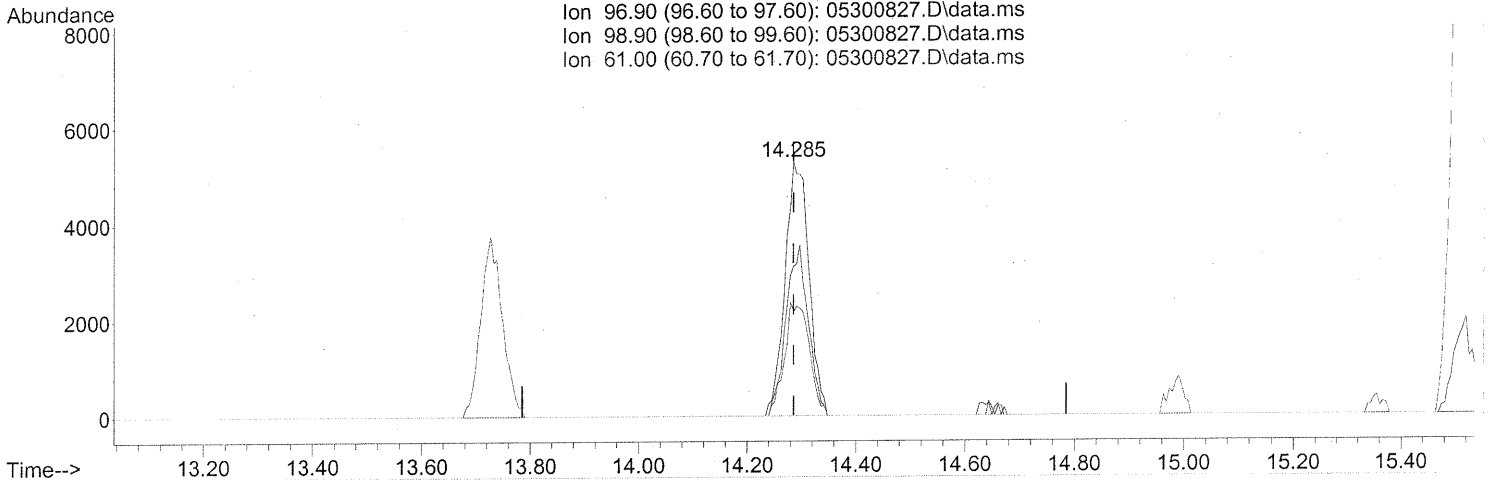
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.49
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.285min (+0.000) 0.48ng

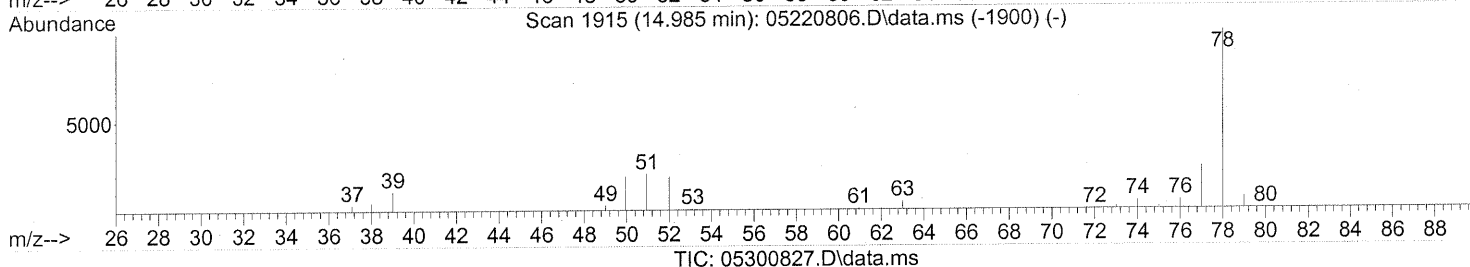
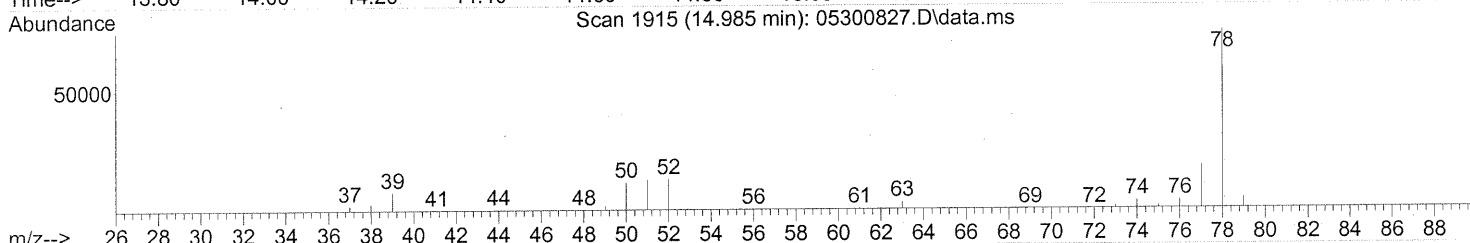
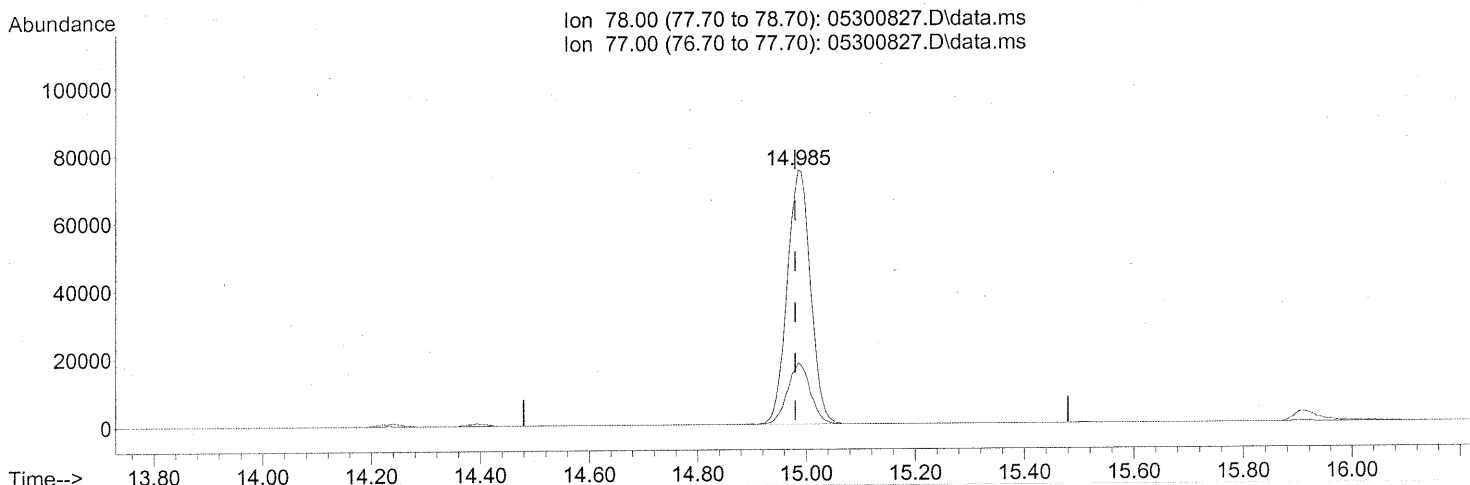
response 16120

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	62.83
61.00	50.50	45.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 2.87ng

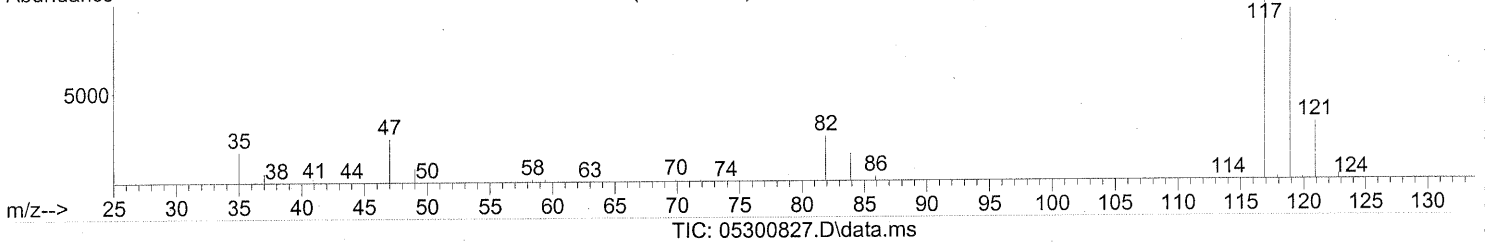
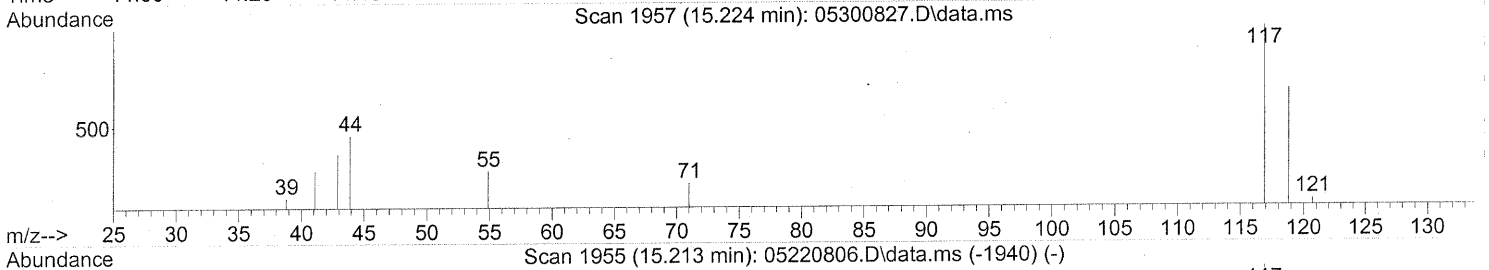
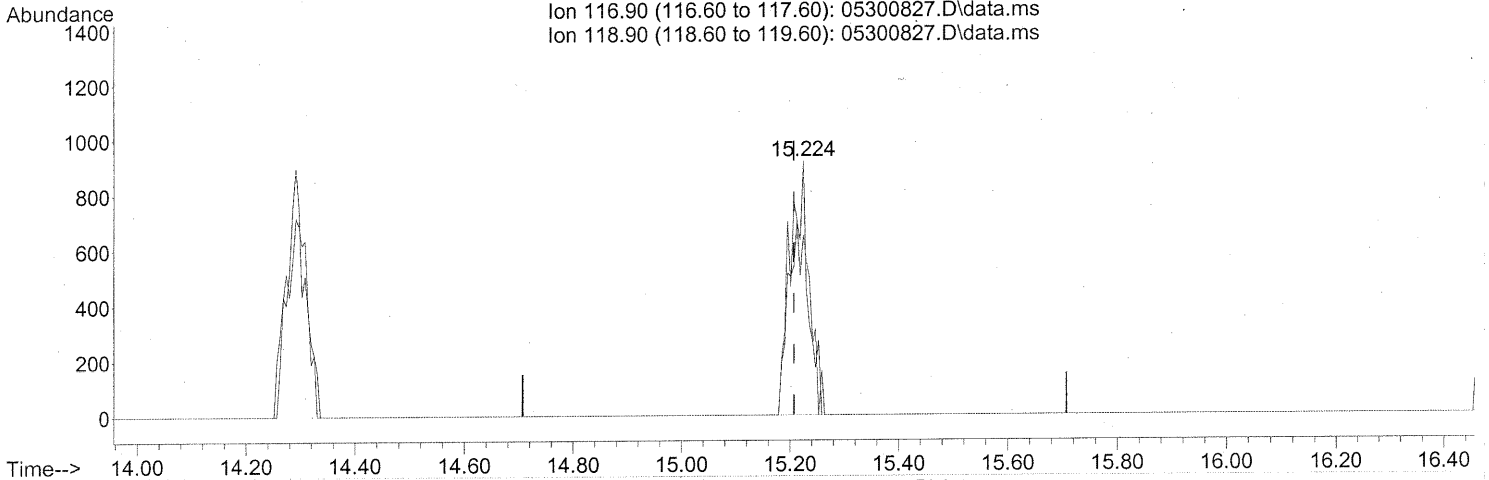
response 221936

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.53
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.224min (+0.017) 0.07ng

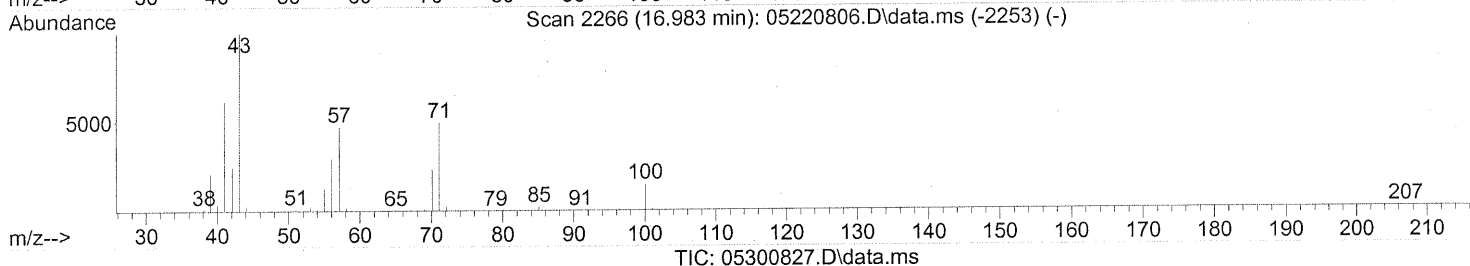
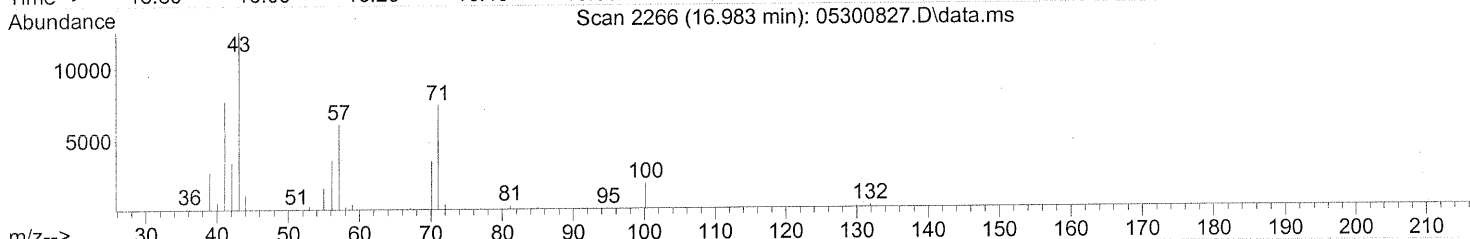
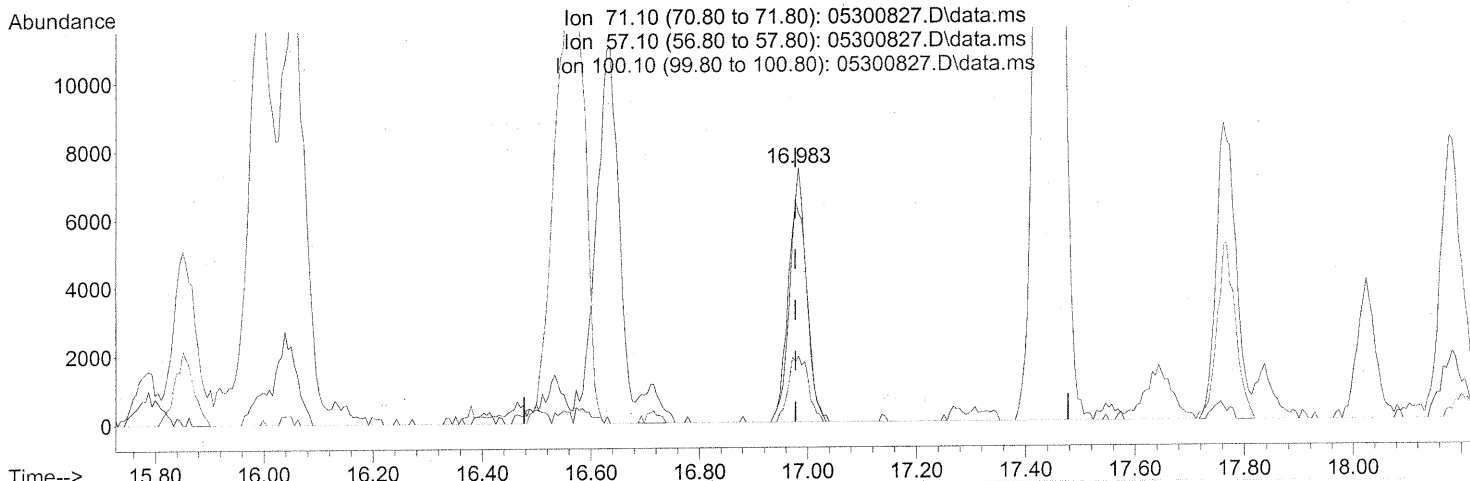
response 1959

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	106.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



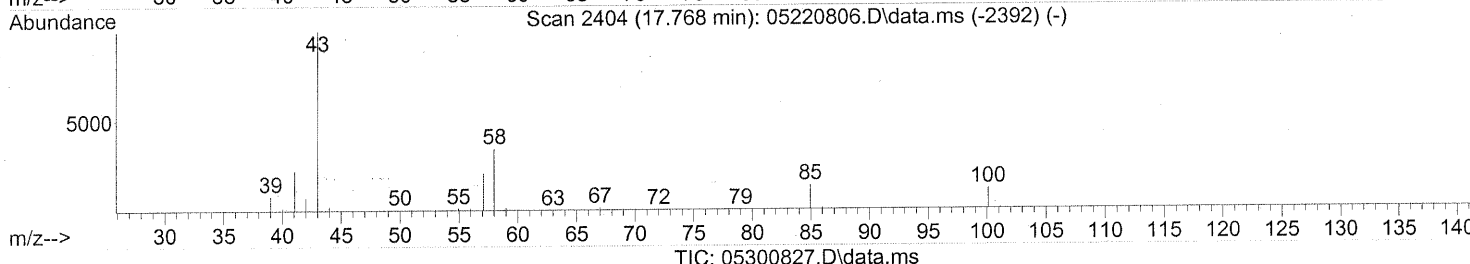
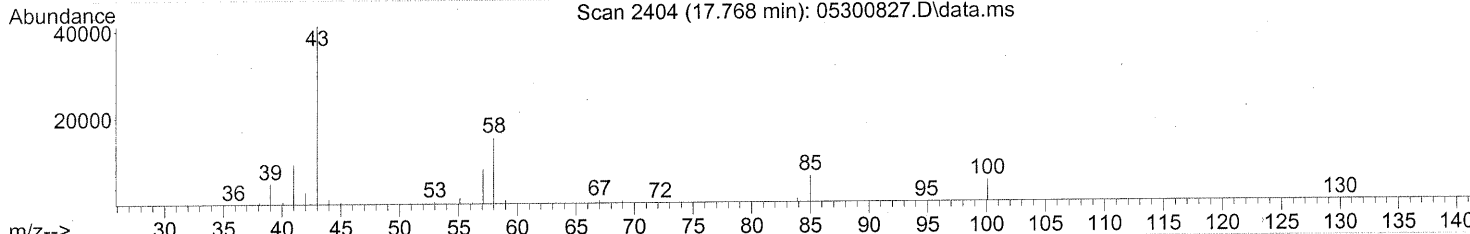
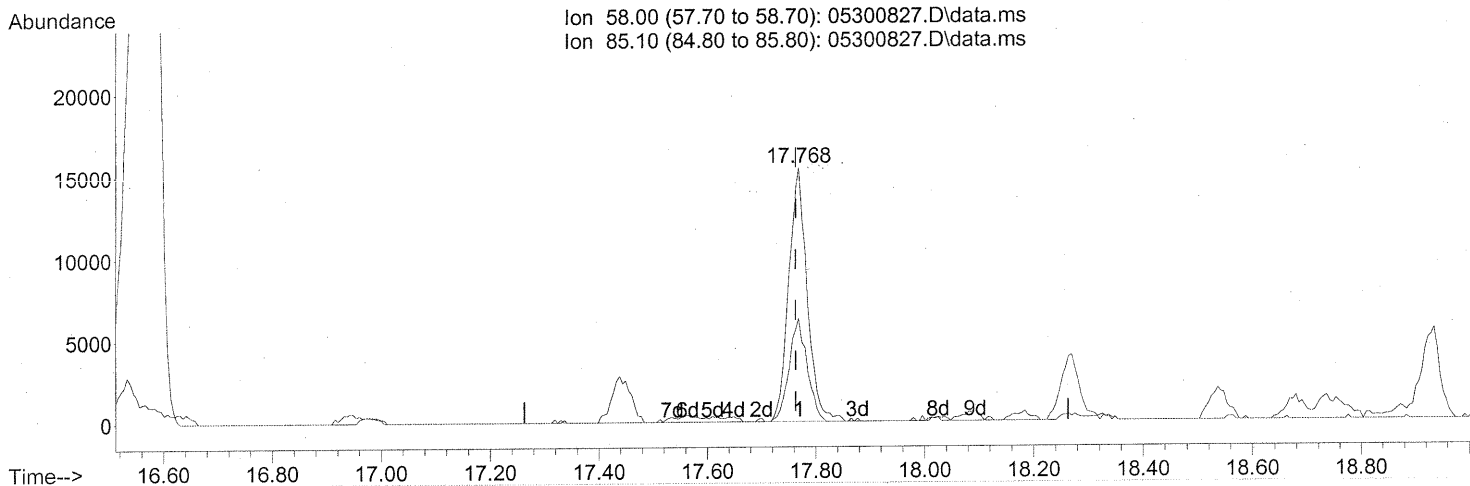
(51) n-Heptane (T)  
 16.983min (+0.006) 0.82ng  
 response 16781

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	90.24#
100.10	30.10	29.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.768min (+0.006) 1.77ng

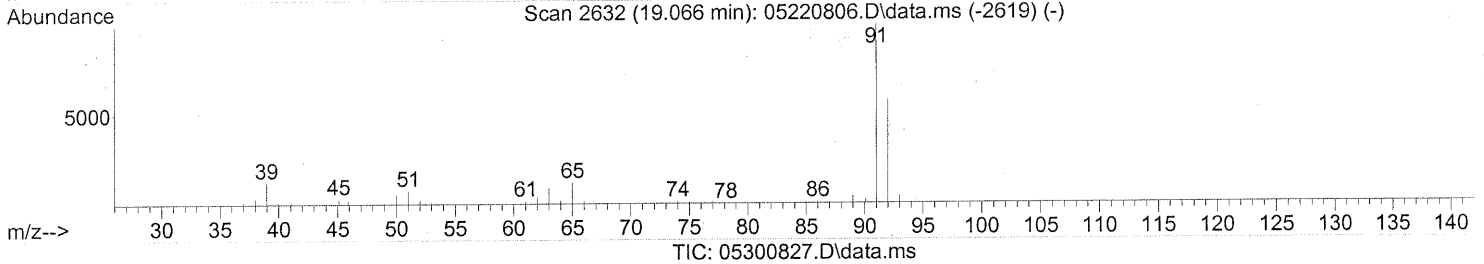
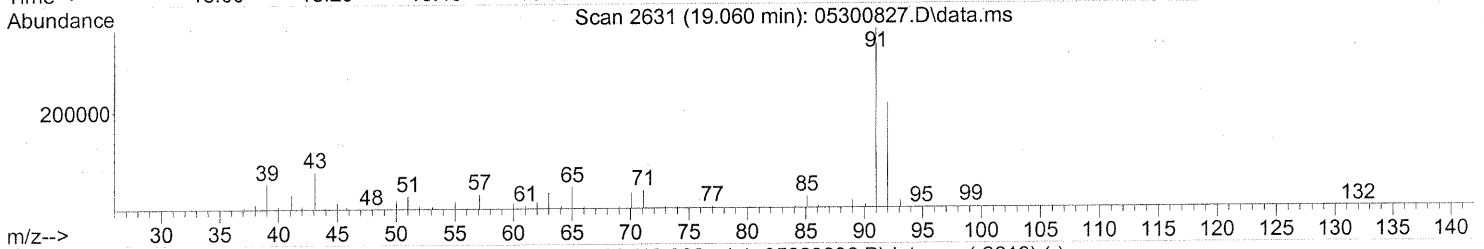
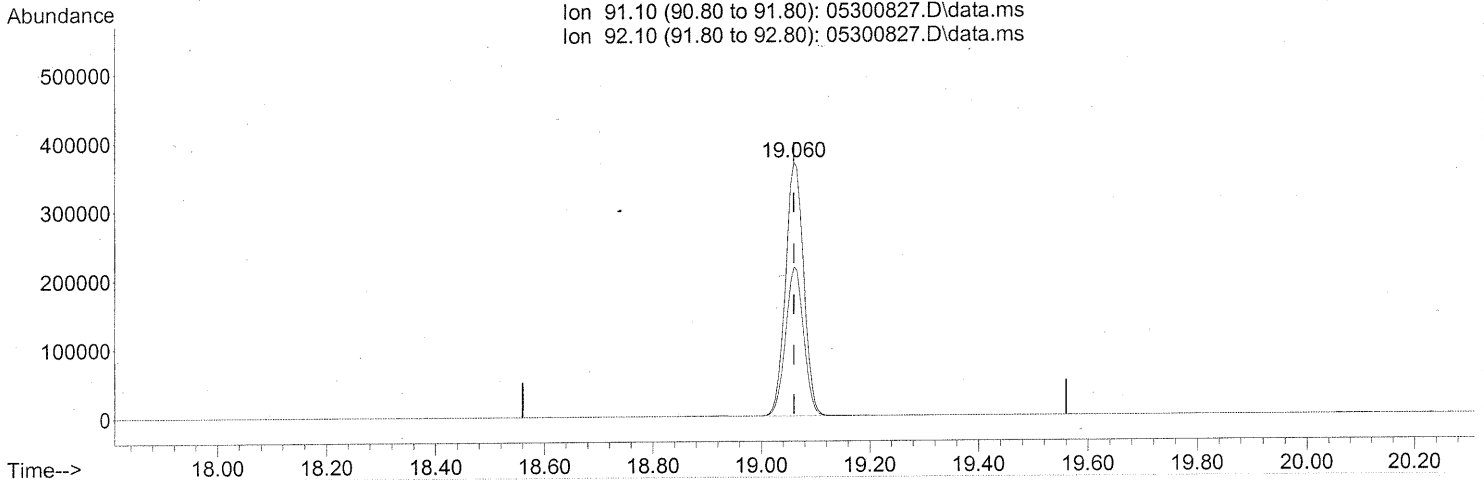
response 36341

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)  
 19.060min (+0.000) 10.47ng

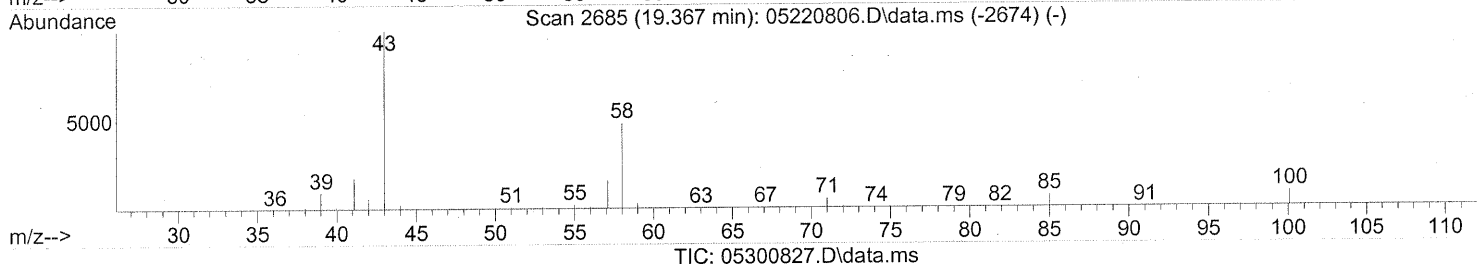
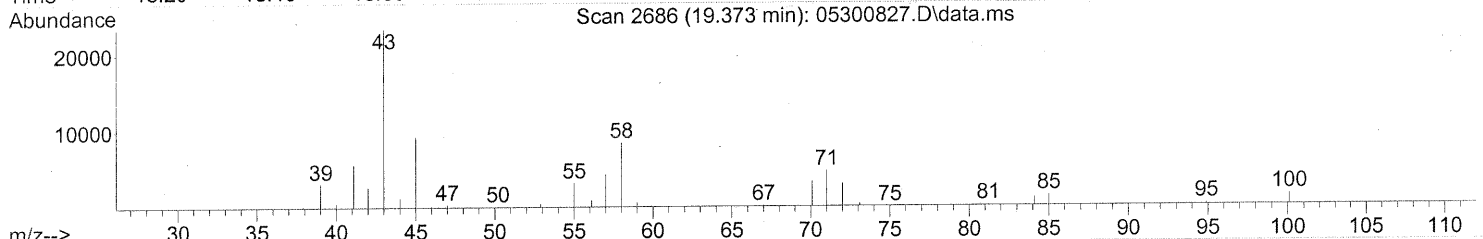
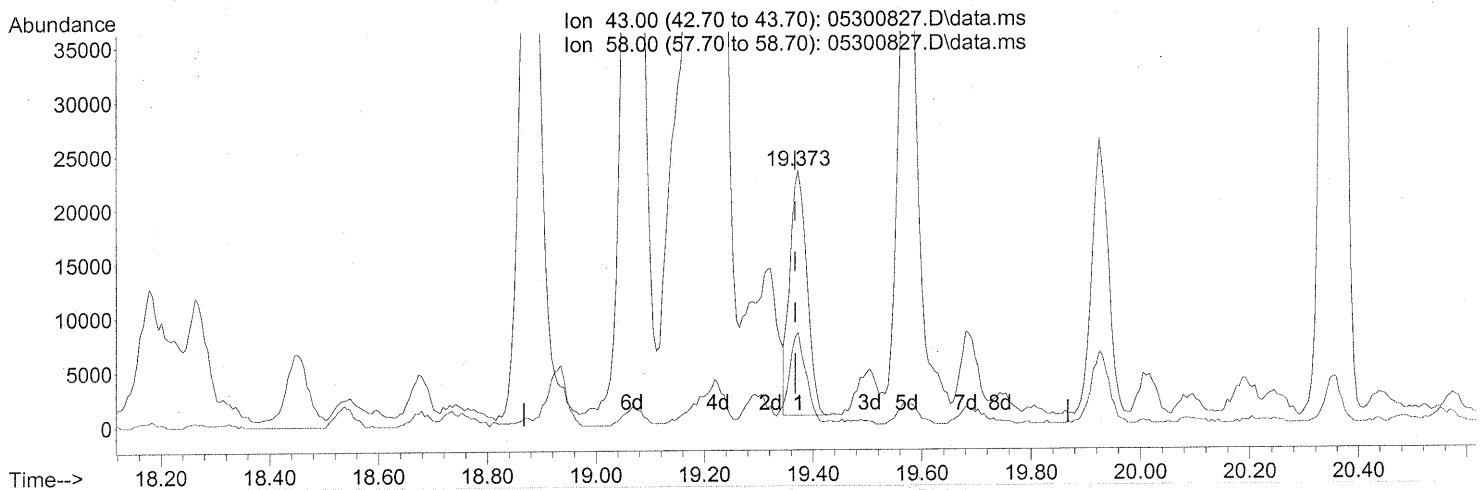
response 859139

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



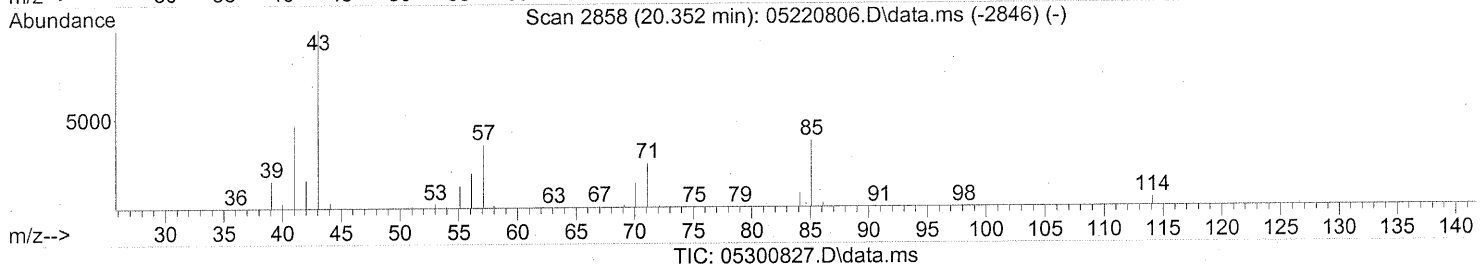
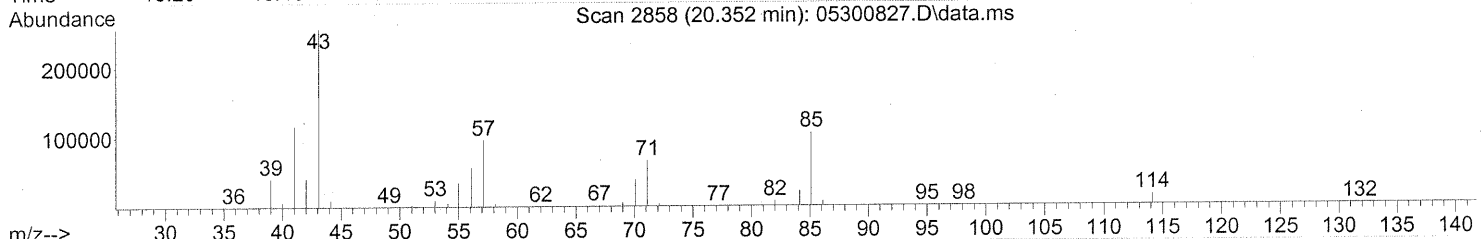
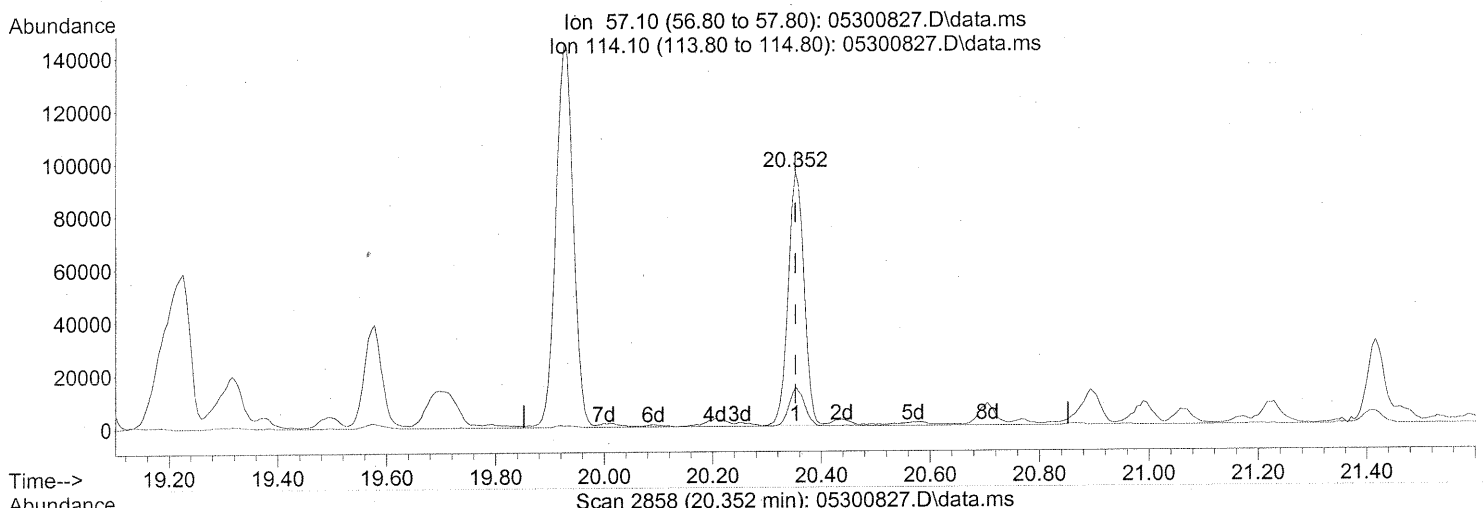
(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.87ng  
 response 49112

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	36.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.352min (+0.000) 10.72ng

response 194546

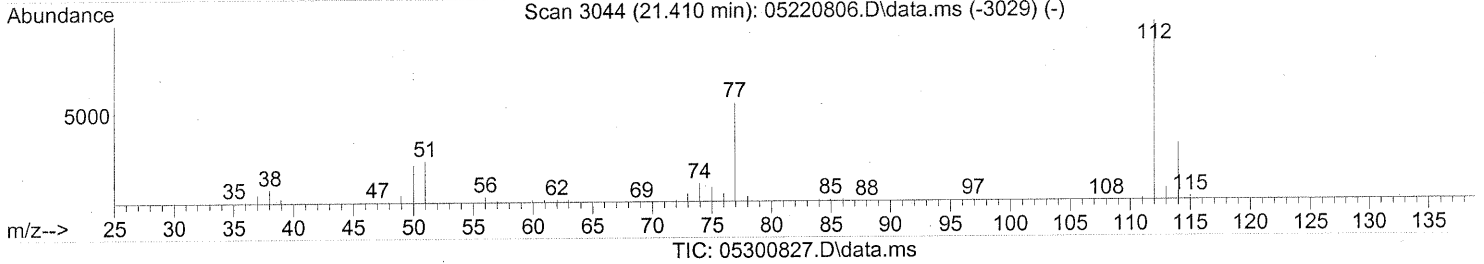
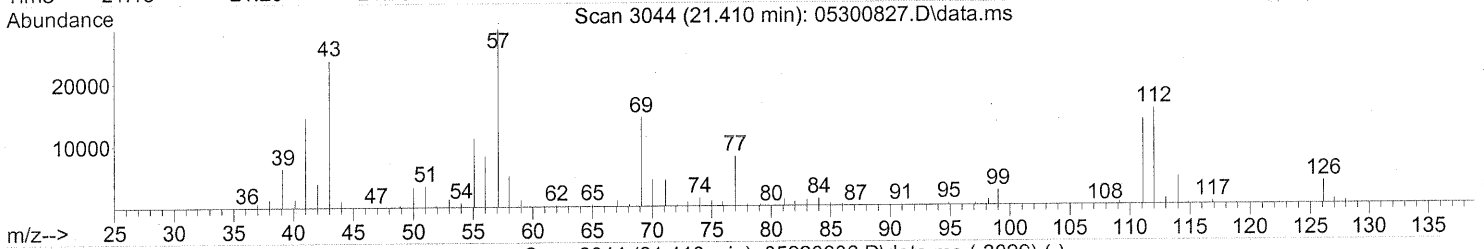
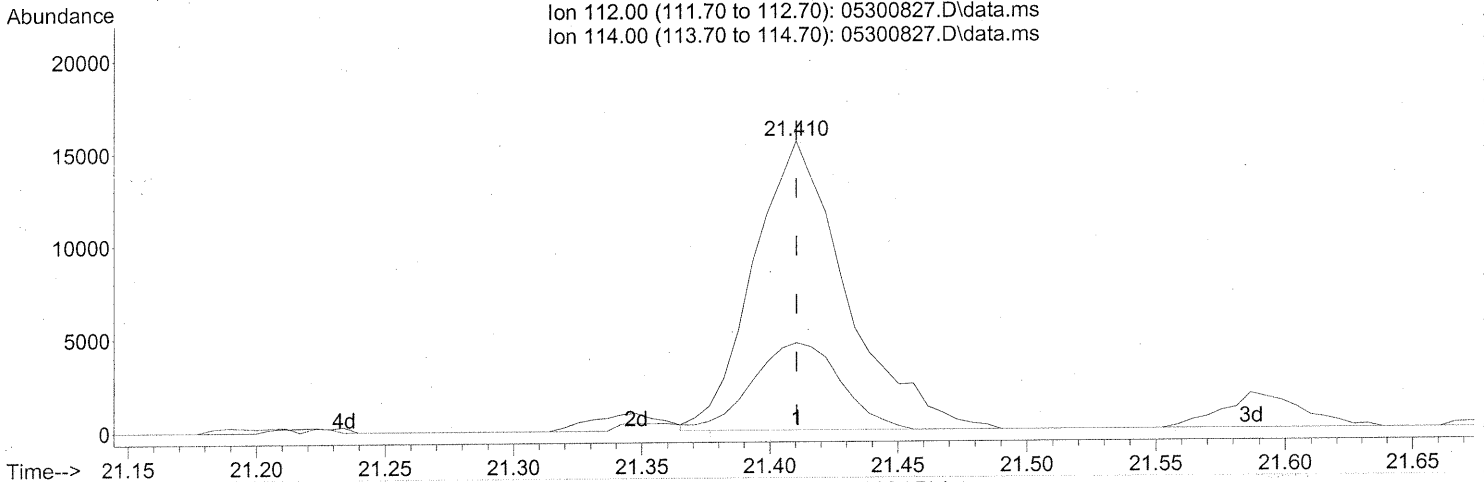
Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.74
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



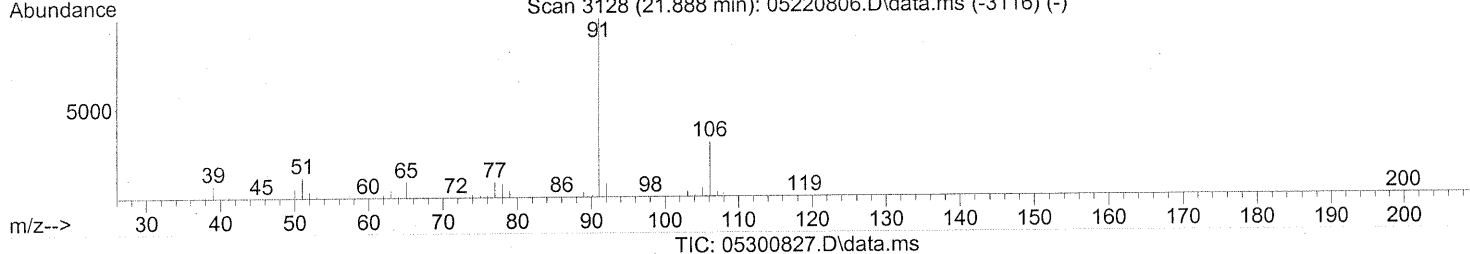
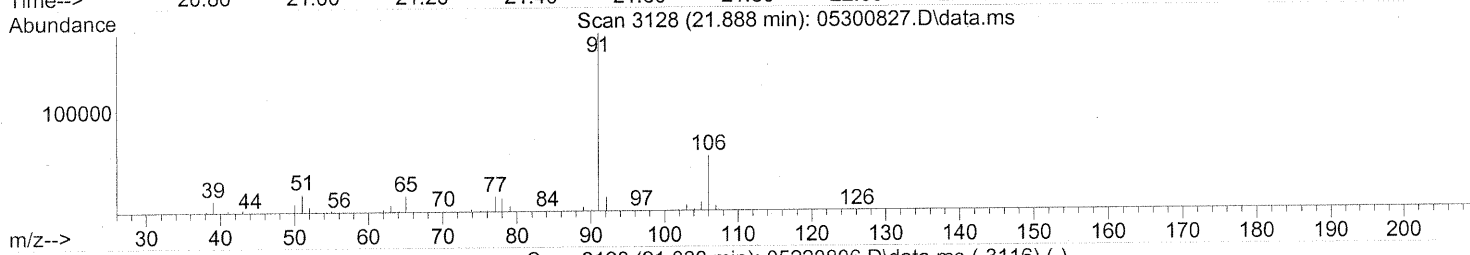
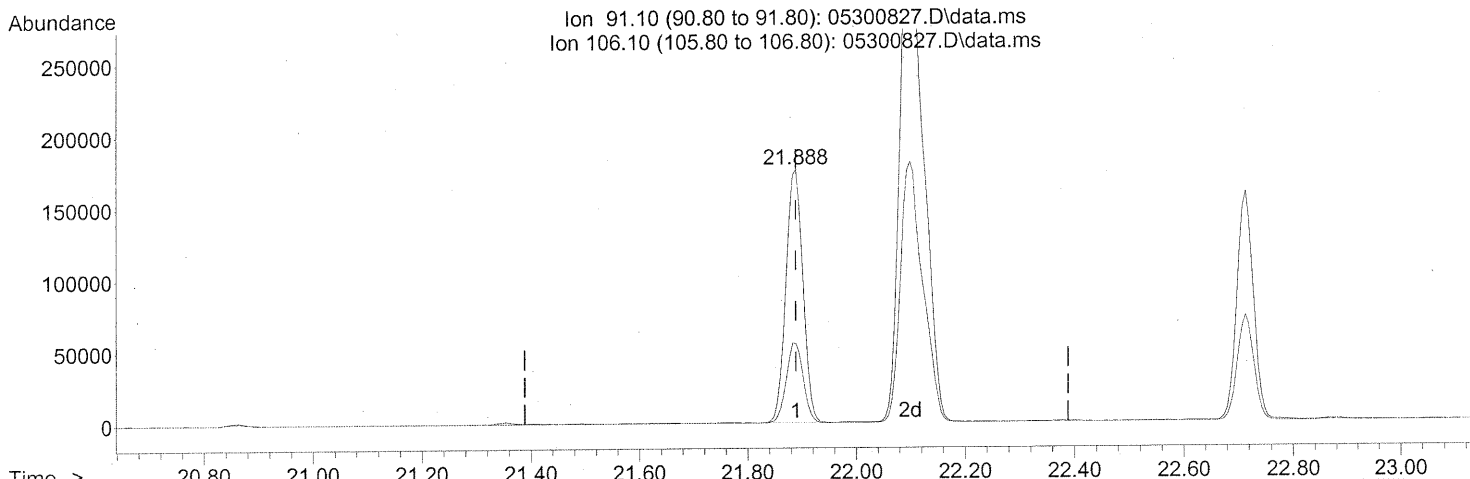
(65) Chlorobenzene (T)  
 21.410min (+0.000) 0.71ng  
 response 39189

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	28.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



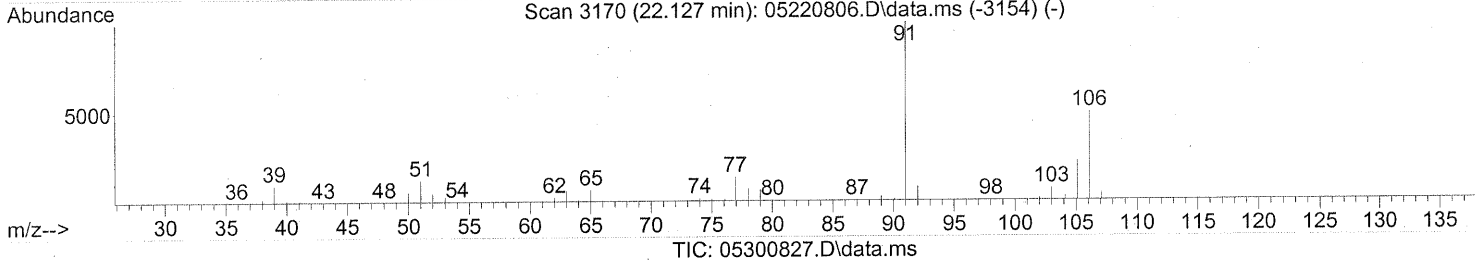
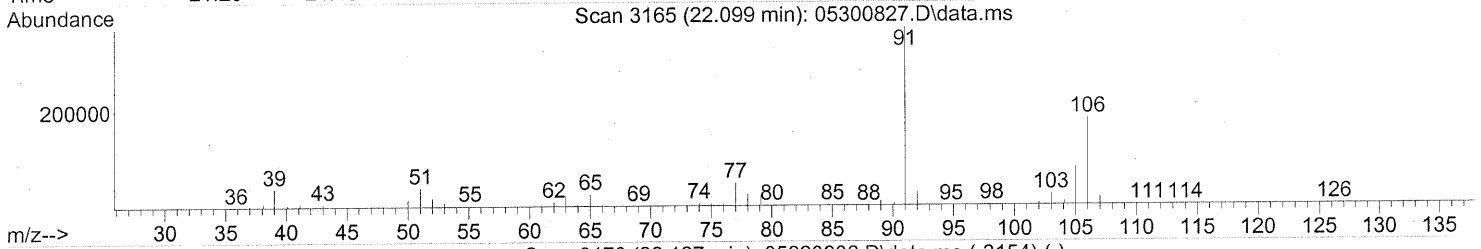
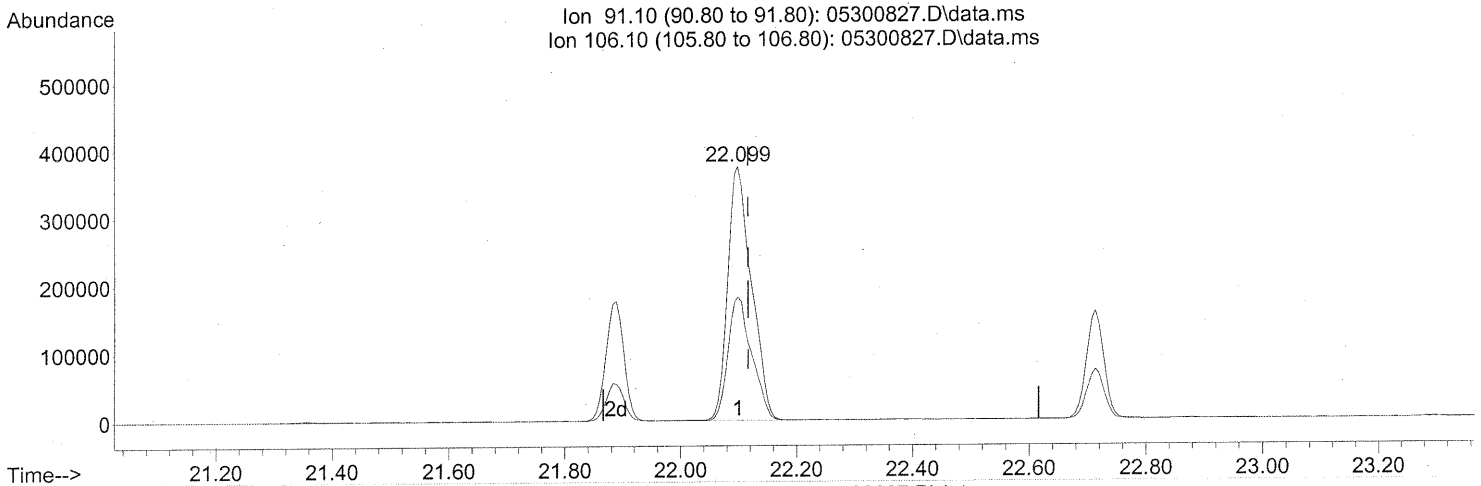
(66) Ethylbenzene (T)  
 21.888min (+0.000) 4.03ng  
 response 379176

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 16.80ng

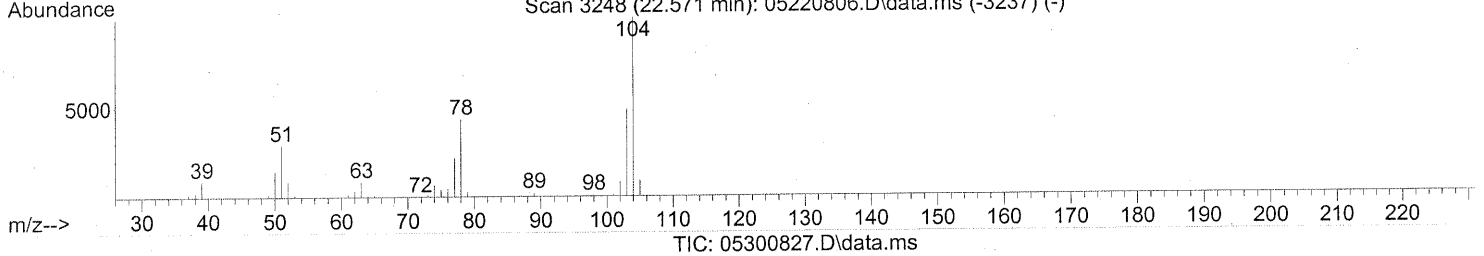
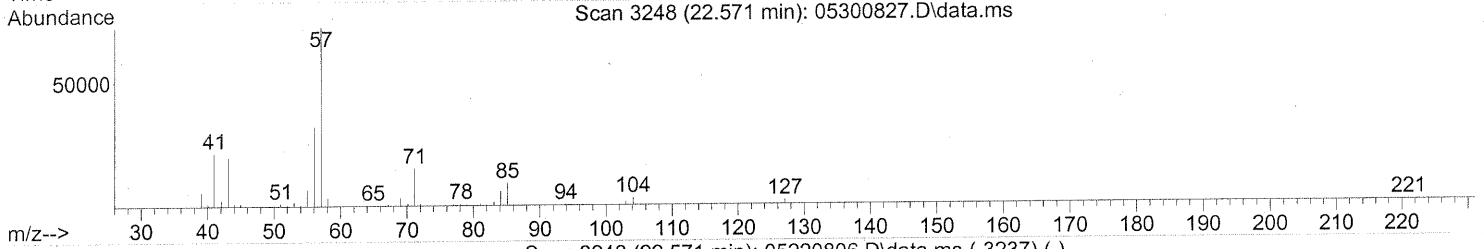
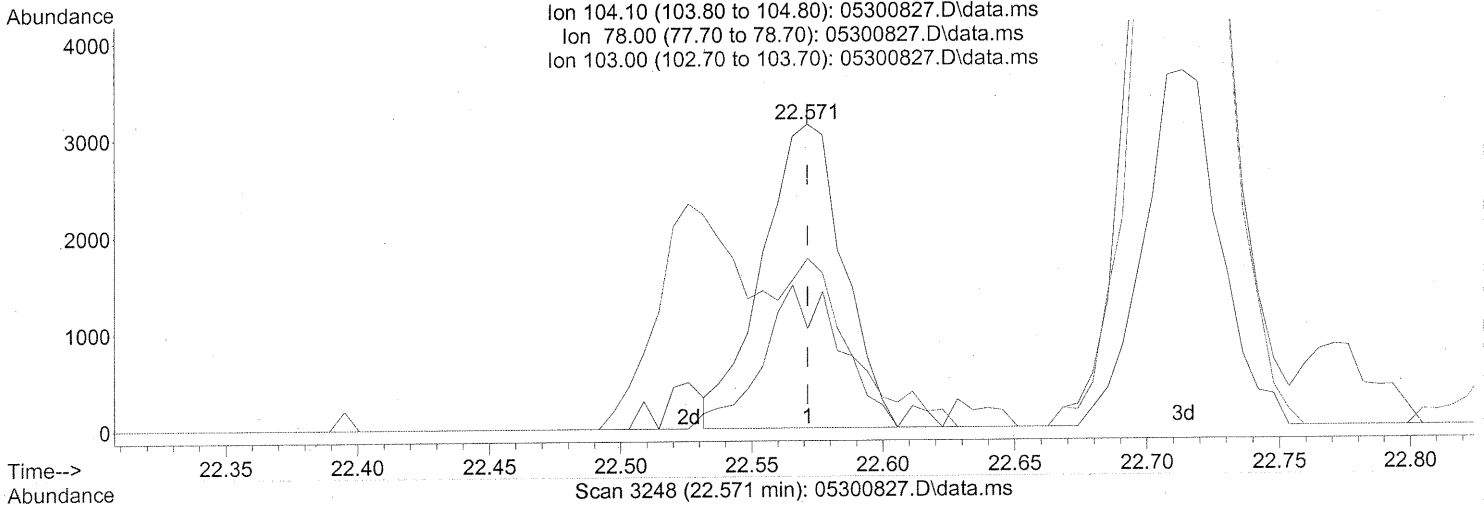
response 1056906

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300827.D  
Acq On : 31 May 2008 5:28 am  
Operator : WA  
Sample : P0801548-011 (1000ml)  
Misc : ENSR SG47B-05 (-3.7,3.6)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(69) Styrene (T)  
22.571min (+0.000) 0.12ng  
response 6733

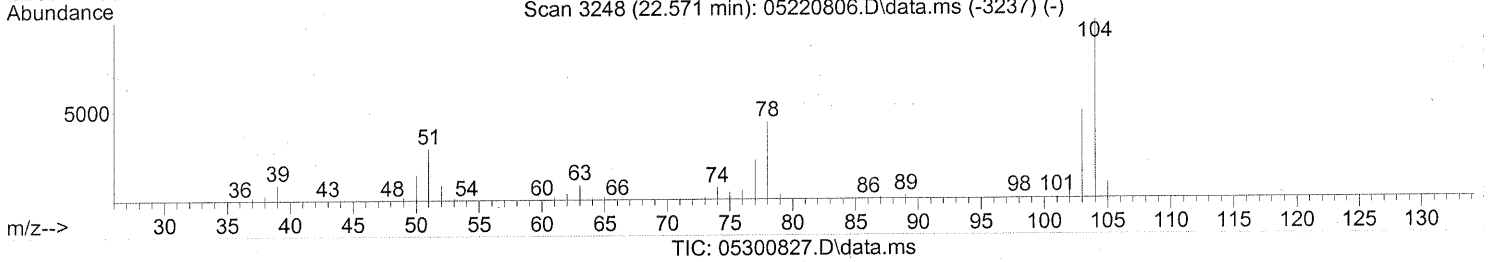
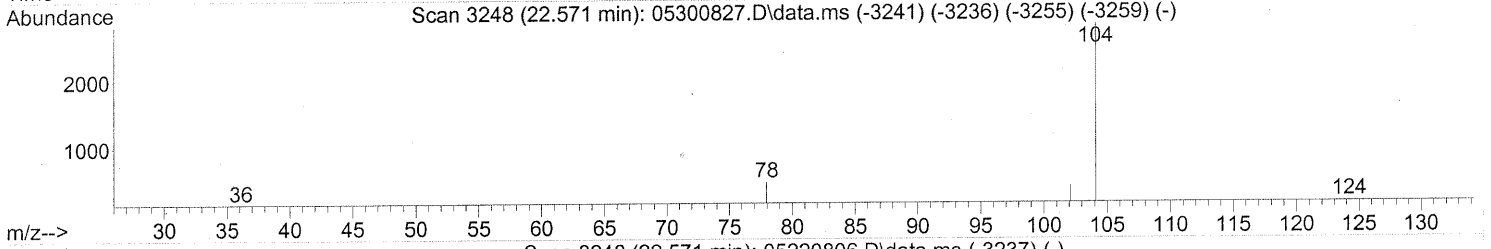
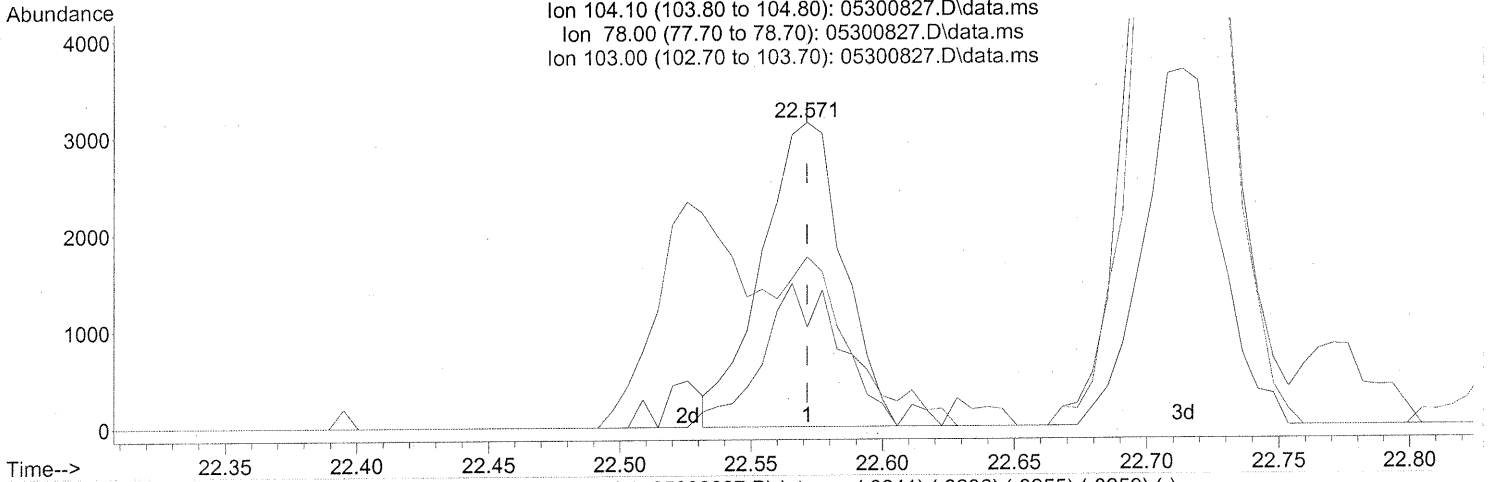
*BEFORE SUBTRACTION*

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	44.97
103.00	47.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)  
 22.571min (+0.000) 0.12ng

response 6733

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	44.97
103.00	47.10	0.00#
0.00	0.00	0.00

AFTER SUBTRACTION

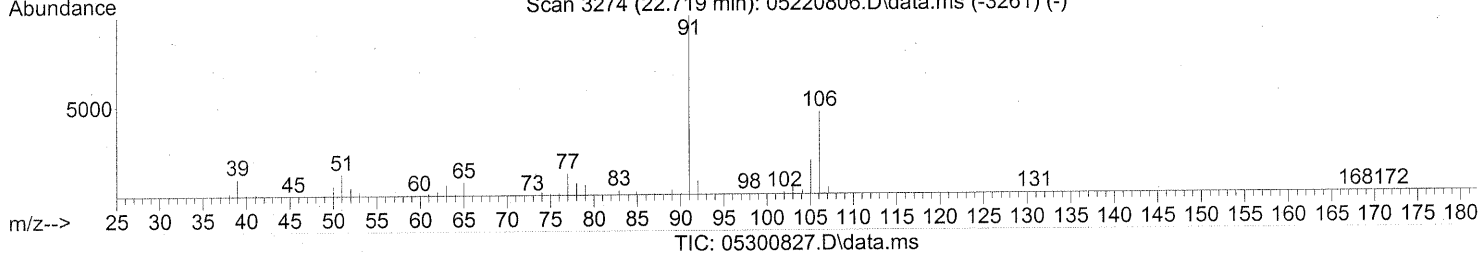
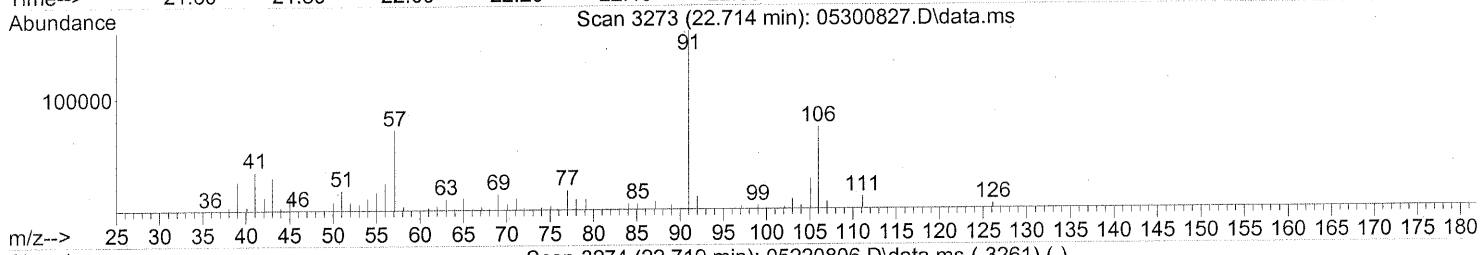
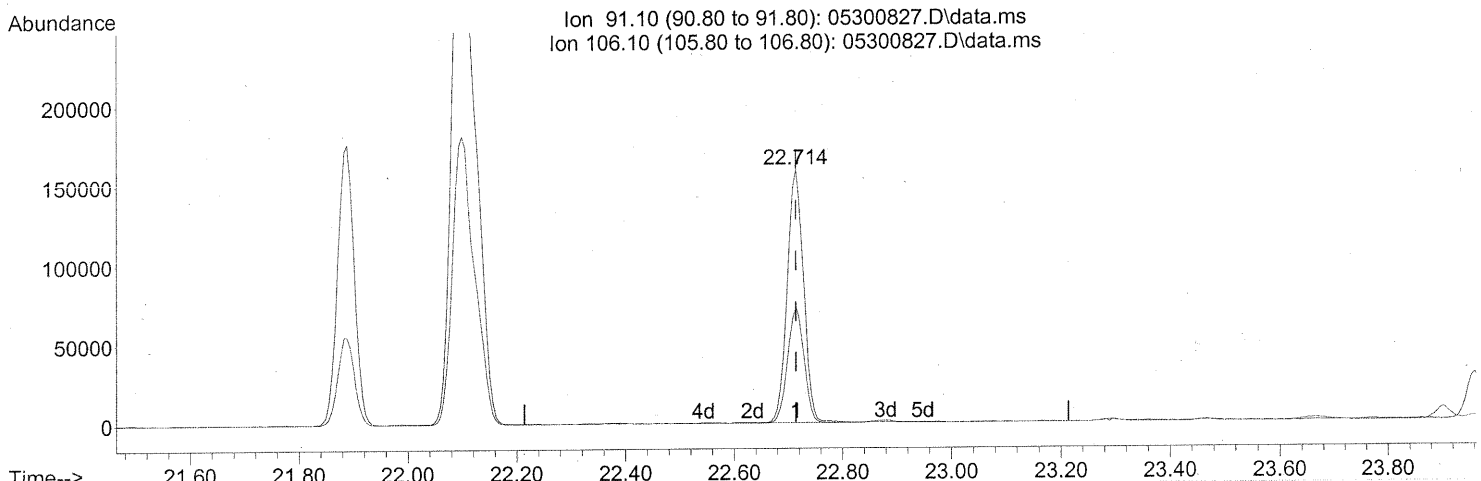
*Handwritten signature*  
 6/6/08

*Handwritten signature*  
 6/9/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (+0.000) 4.88ng

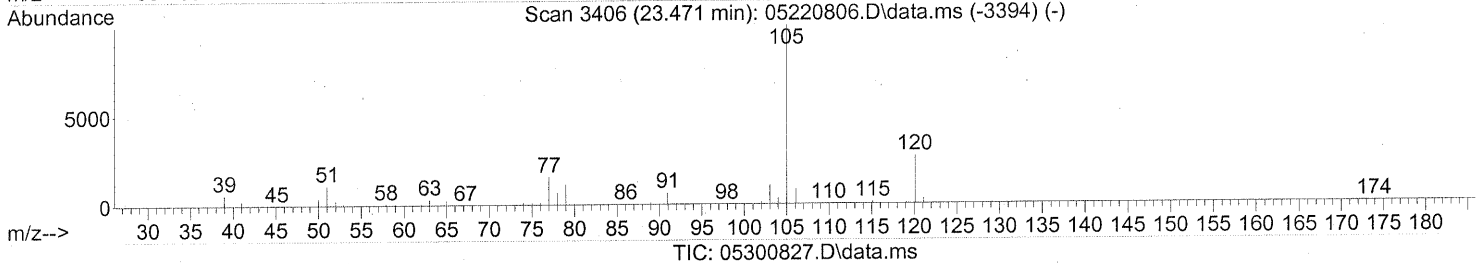
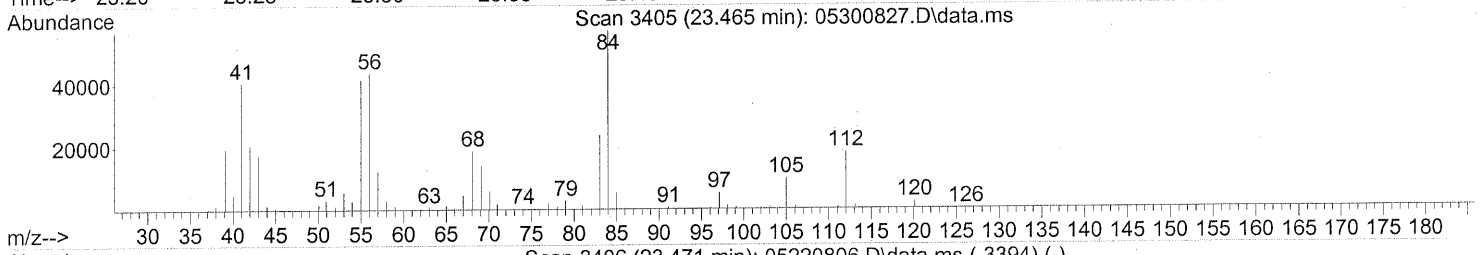
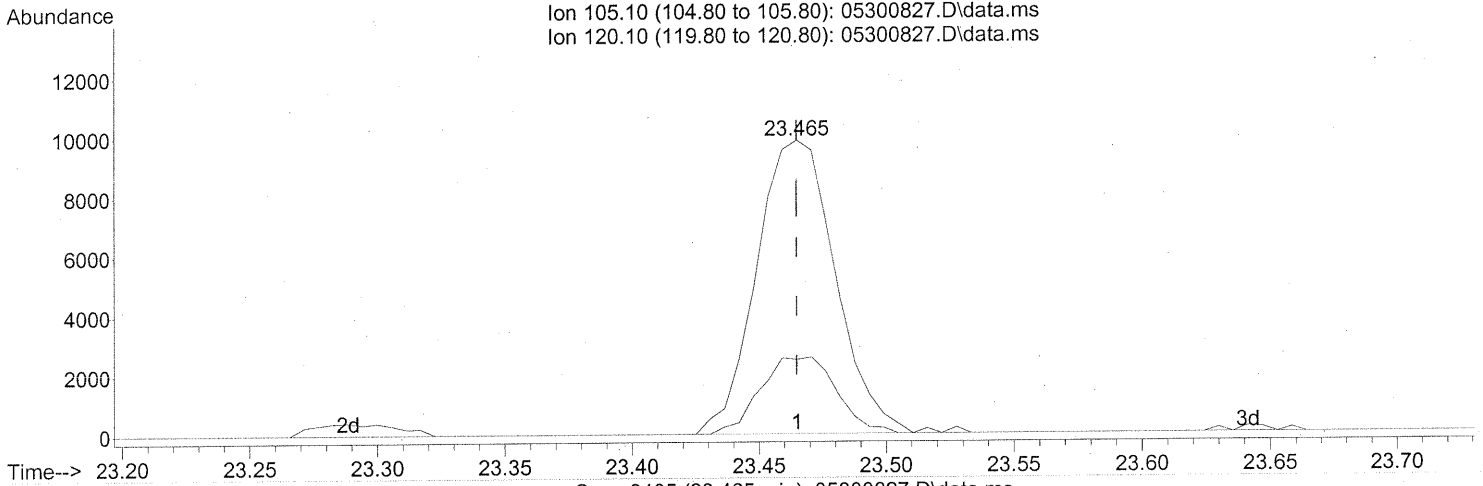
response 331521

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	45.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (+0.000) 0.23ng

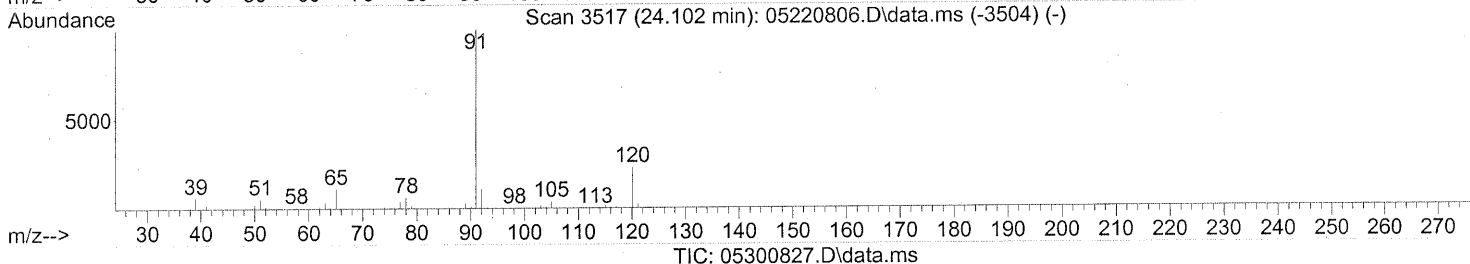
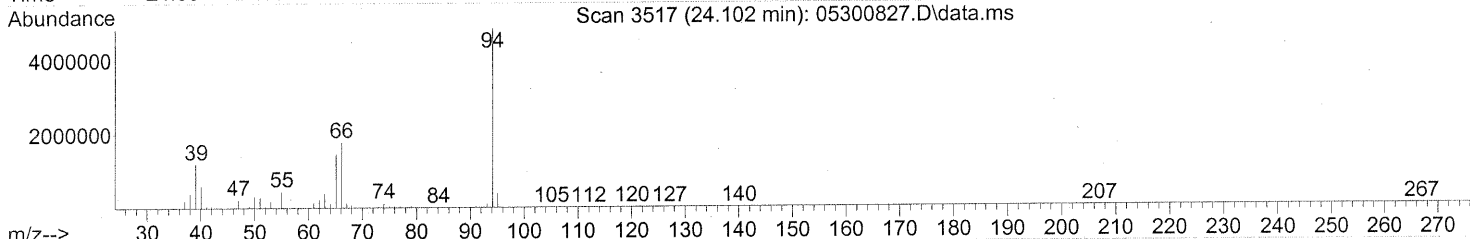
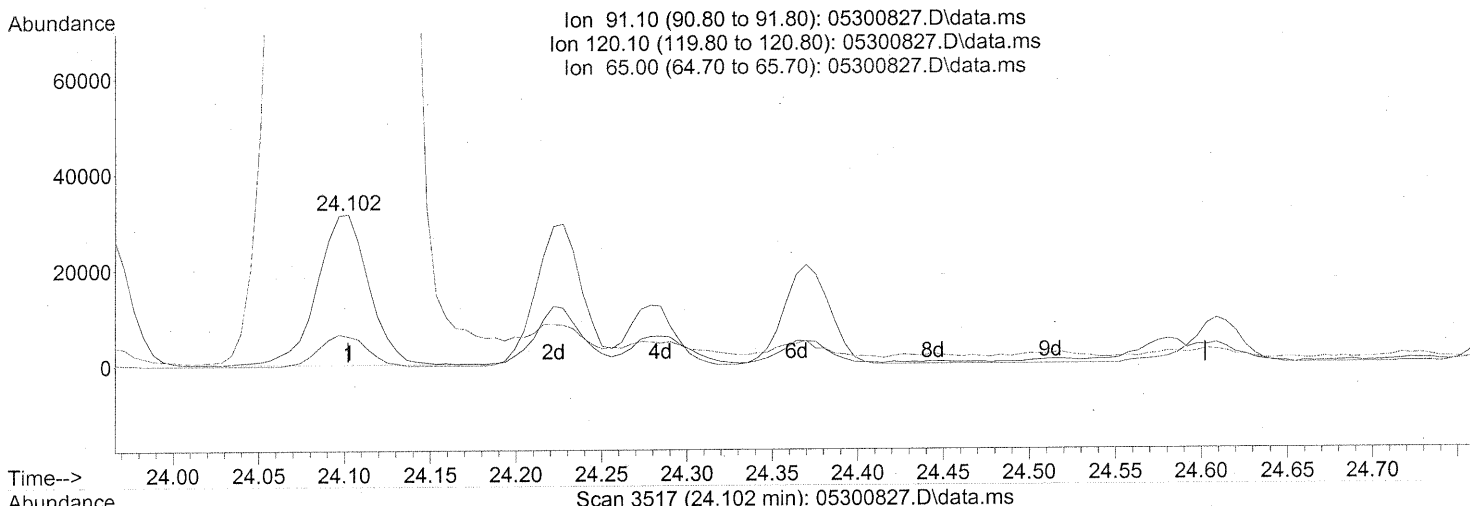
response 21250

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (+0.000) 0.58ng

response 66621

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.06
65.00	11.40	6959.29#
0.00	0.00	0.00

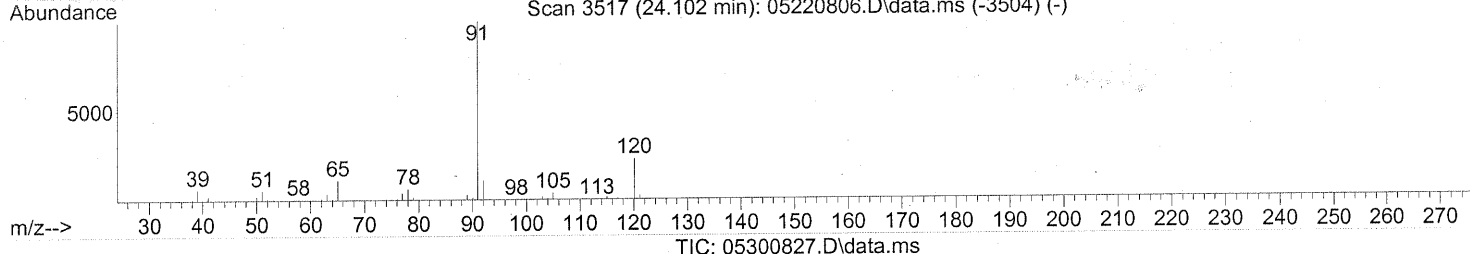
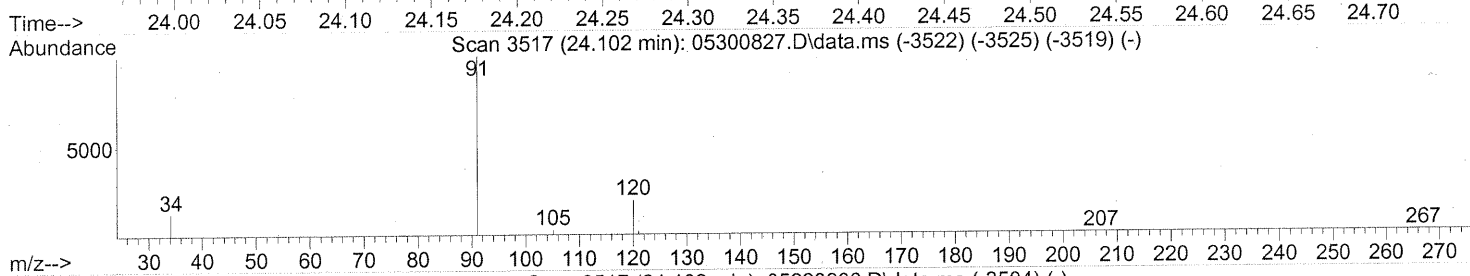
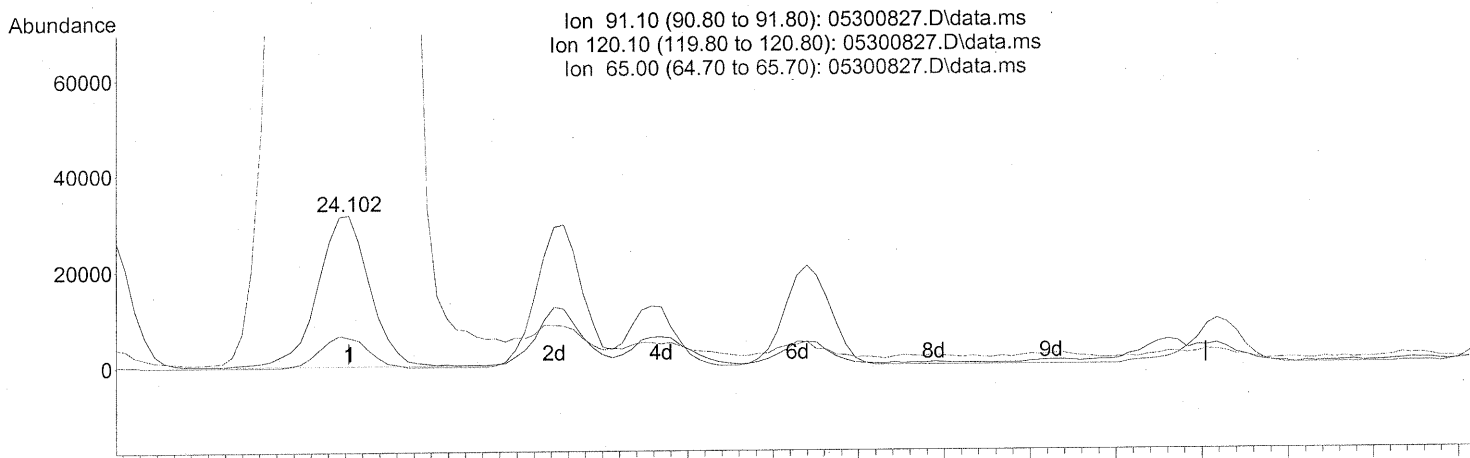
BEFORE SUBTRACTION



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (+0.000) 0.58ng  
 response 66621

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.06
65.00	11.40	6959.29#
0.00	0.00	0.00

AFTER SUBTRACTION

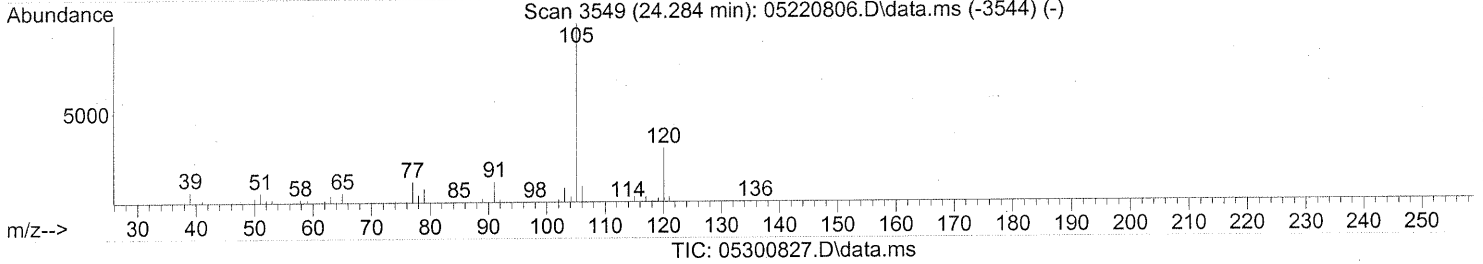
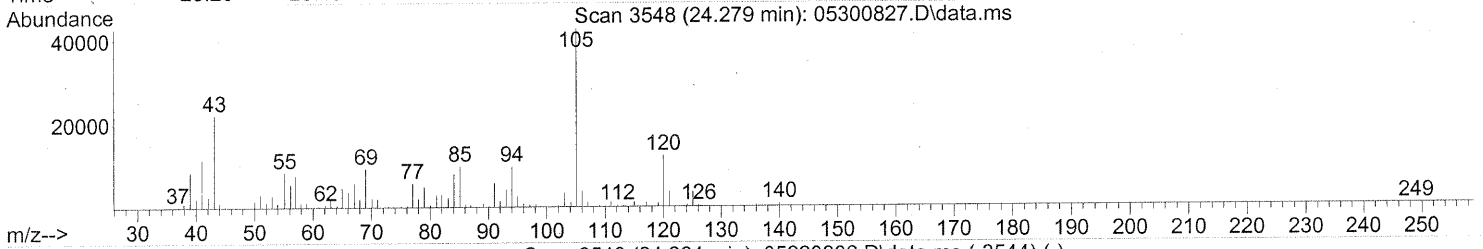
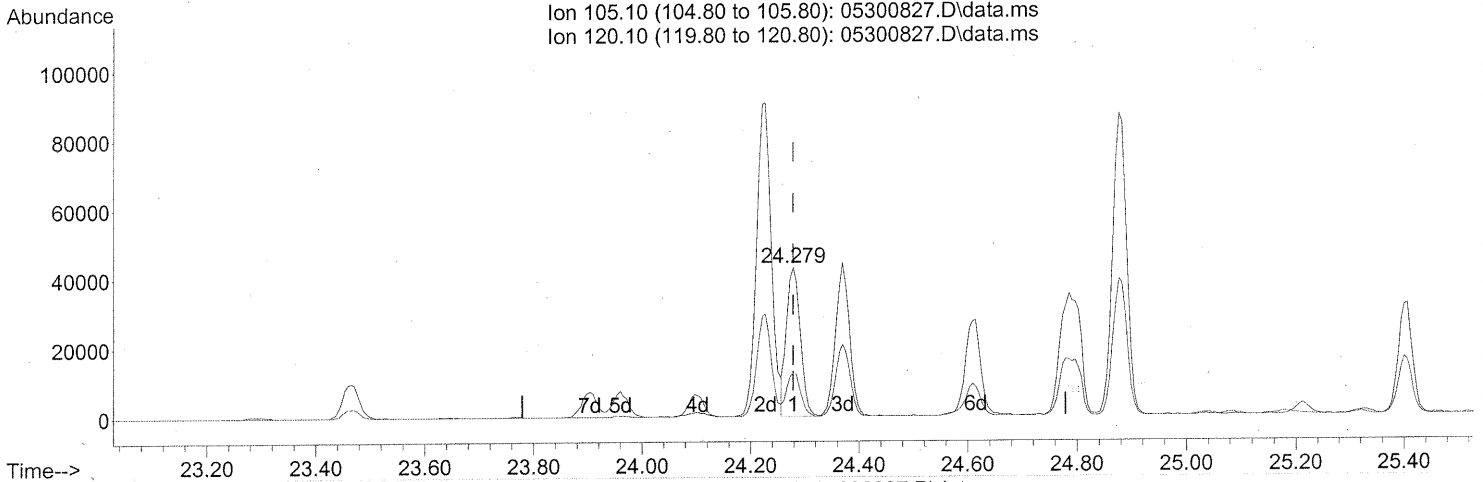
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



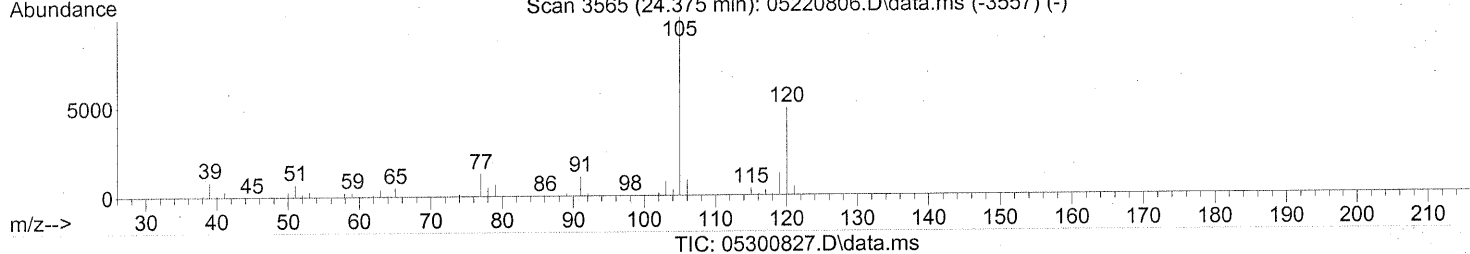
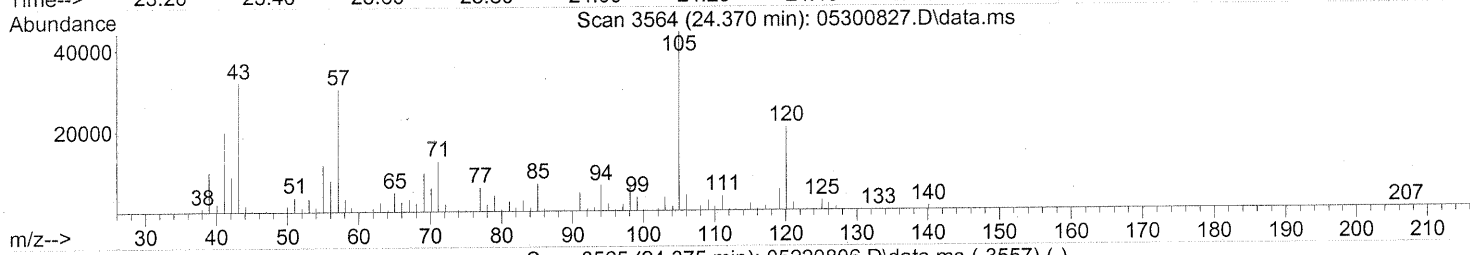
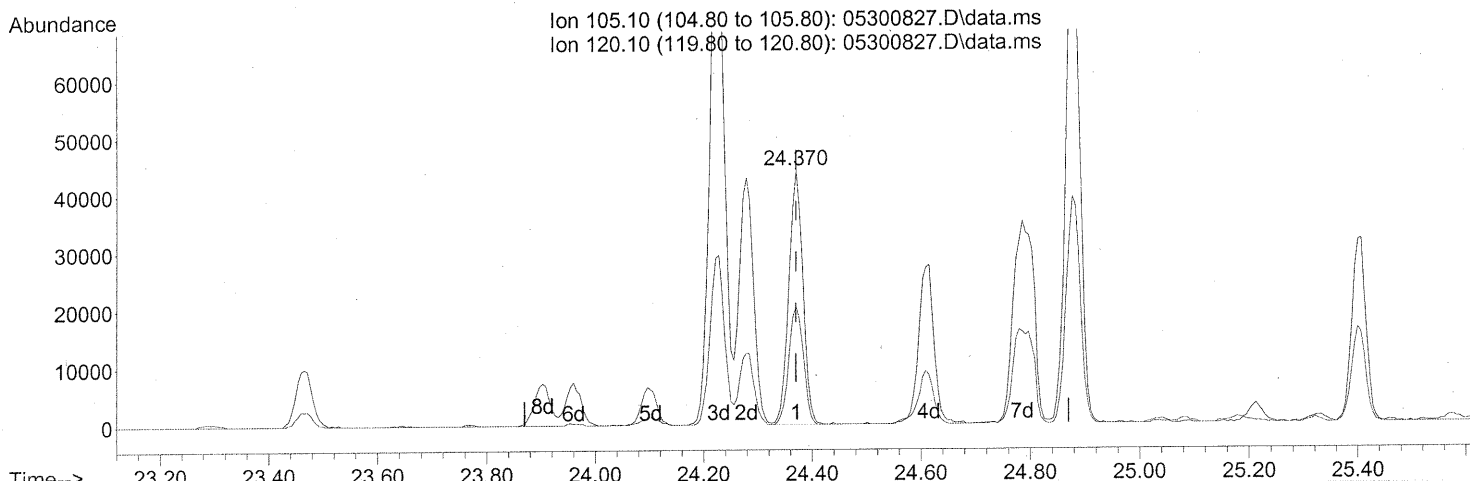
(78) 4-Ethyltoluene (T)  
 24.279min (+0.000) 0.85ng  
 response 76324

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (+0.000) 0.98ng

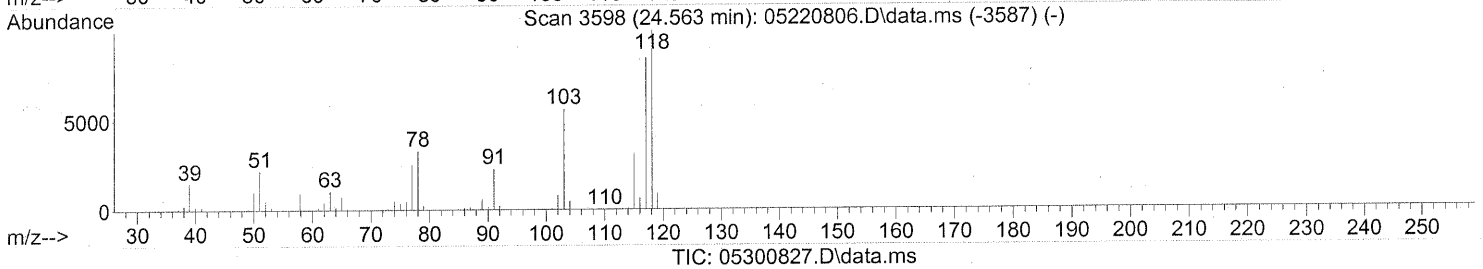
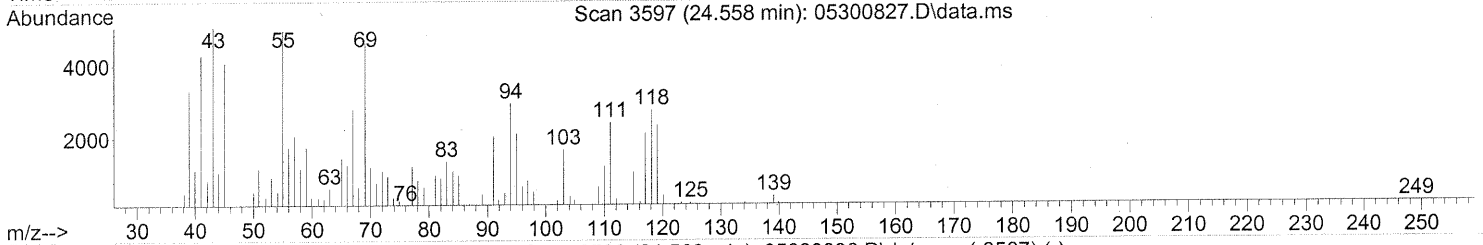
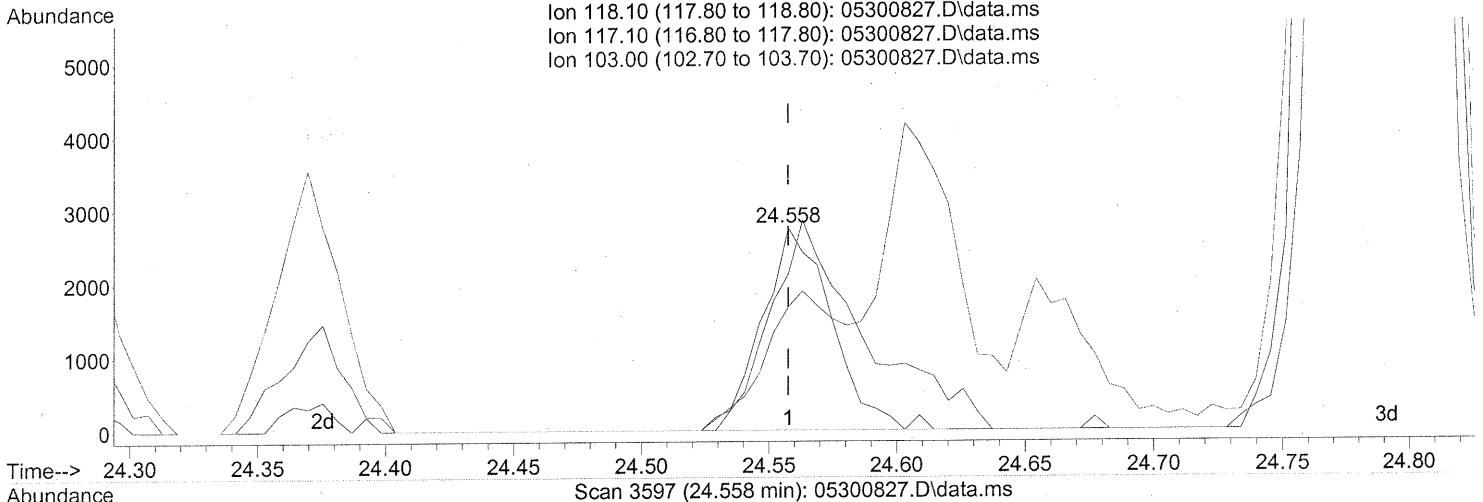
response 79538

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.558min (+0.000) 0.12ng

response 5239

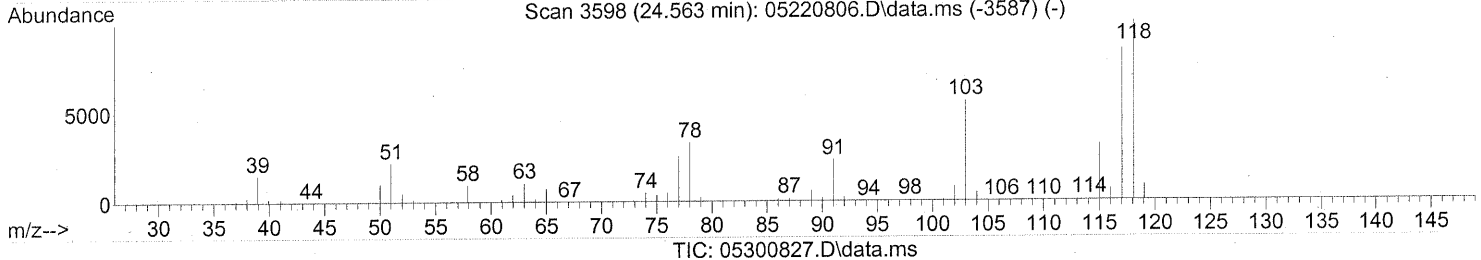
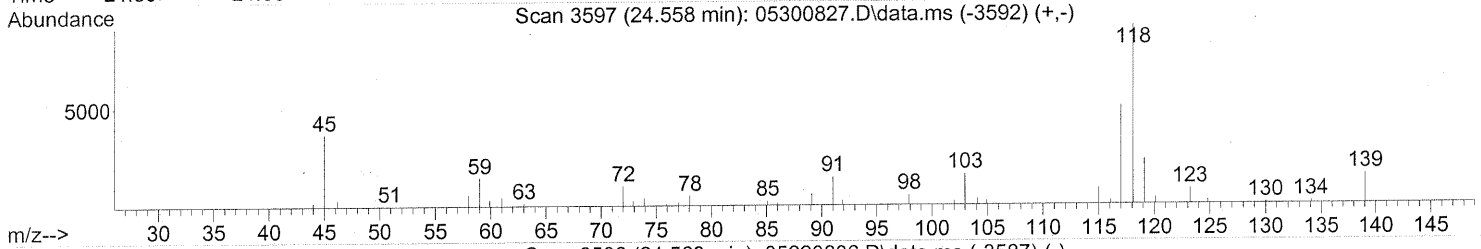
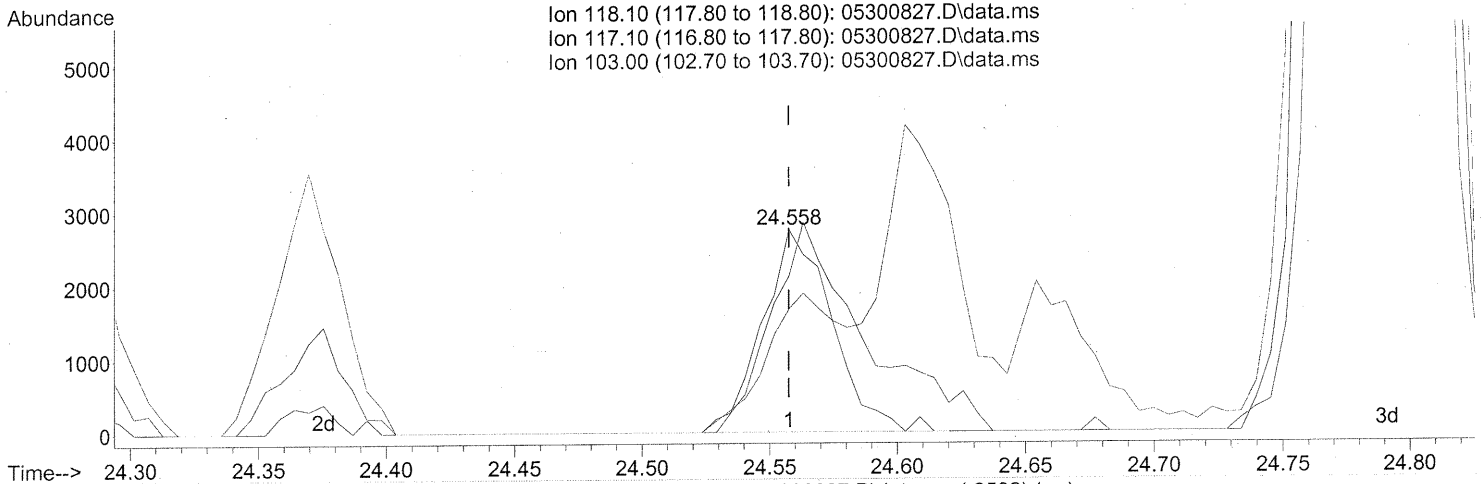
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	139.28#
103.00	55.30	72.97
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.558min (+0.000) 0.12ng

response 5239

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	139.28#
103.00	55.30	72.97
0.00	0.00	0.00

AFTER SUBTRACTION

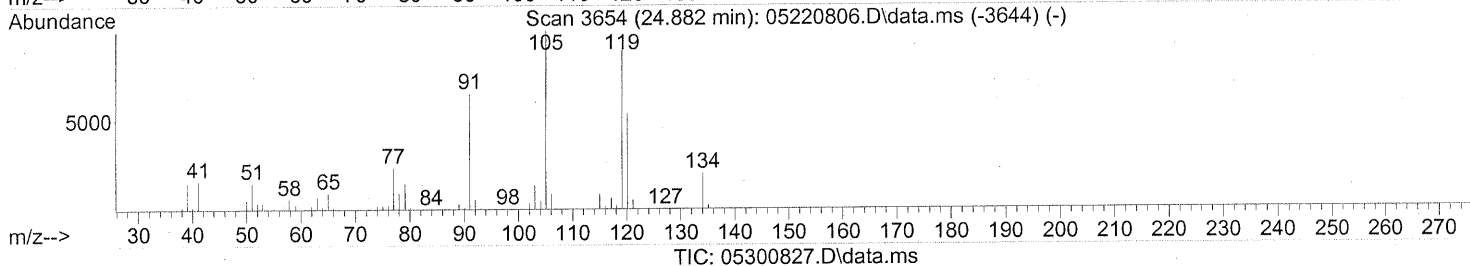
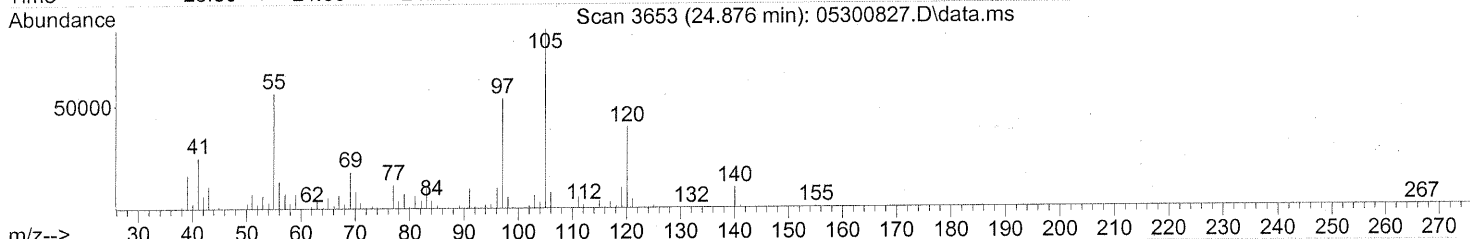
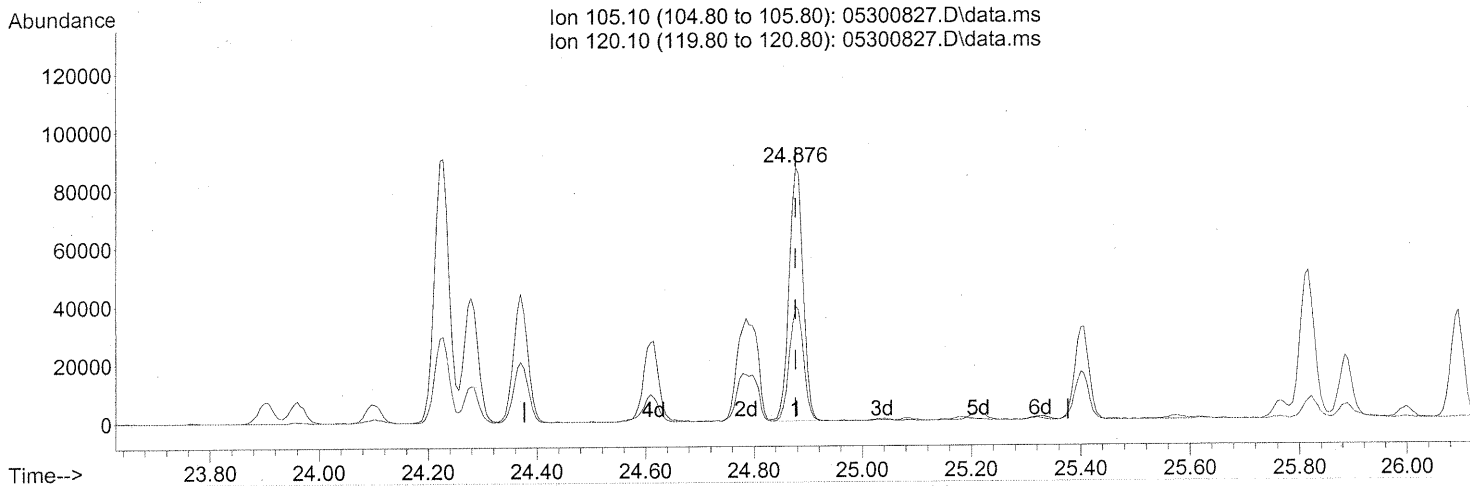
F06/15/08

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (+0.000) 1.89ng

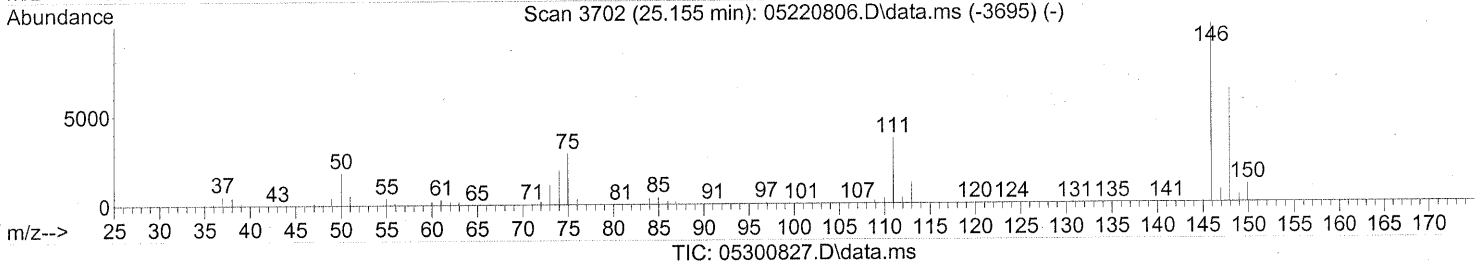
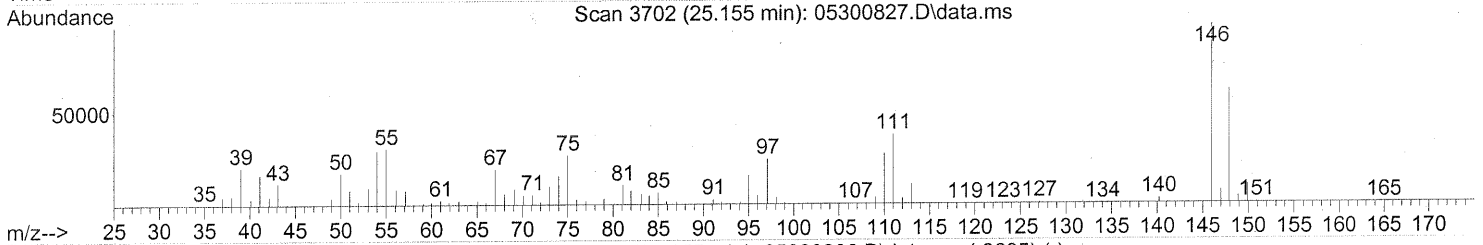
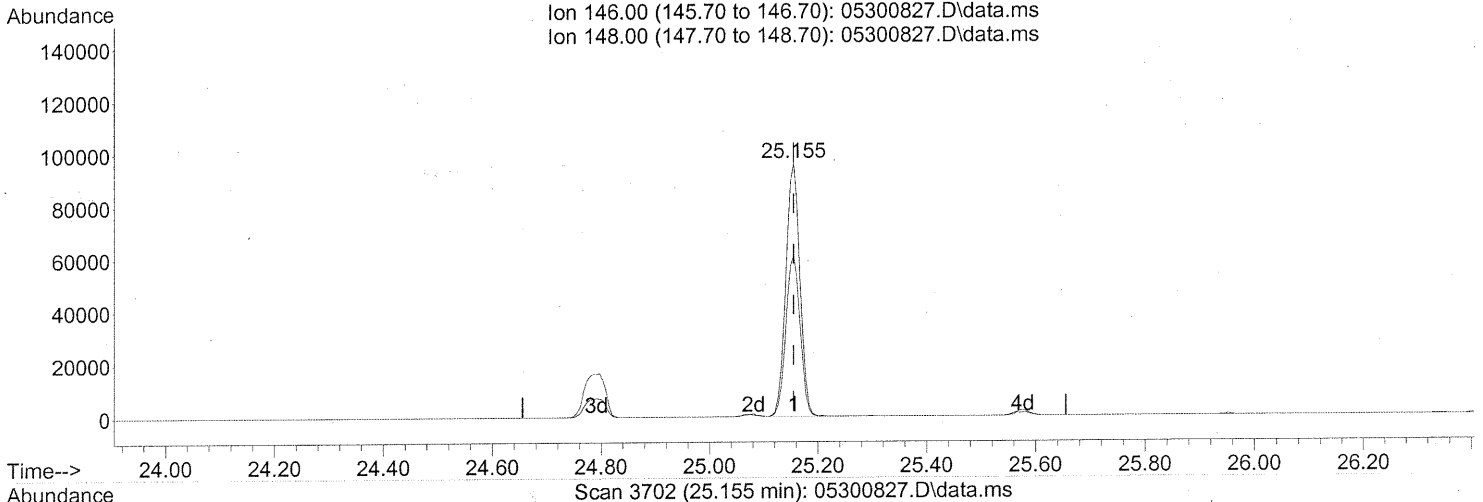
response 156305

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 3.47ng

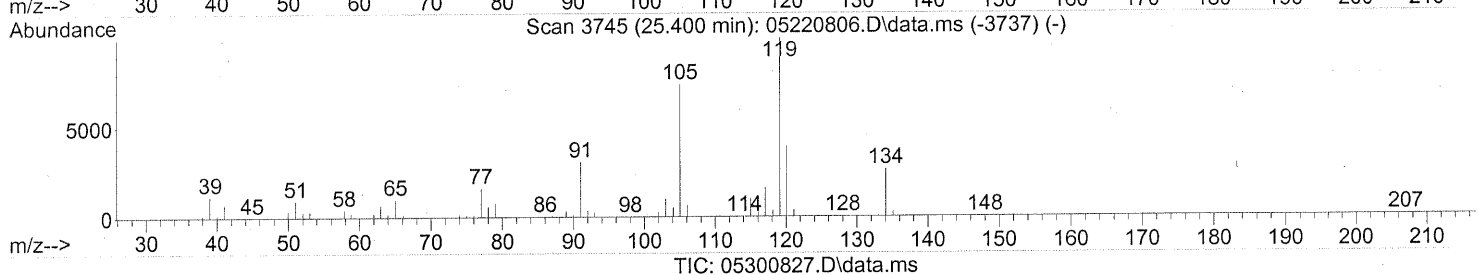
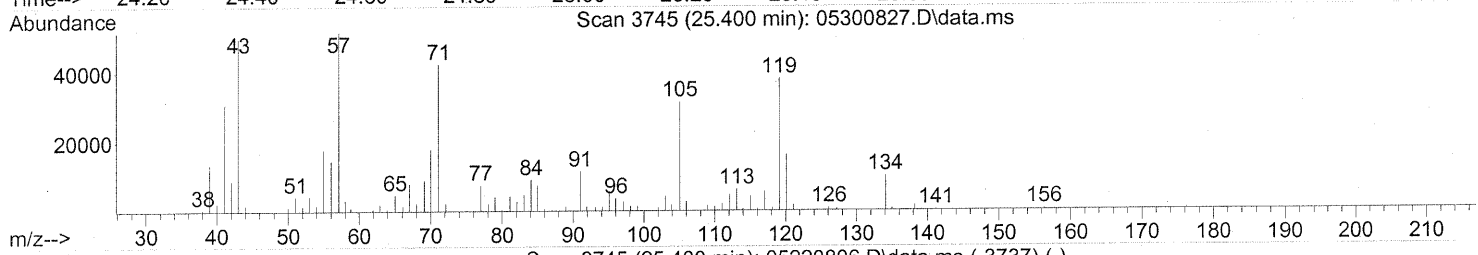
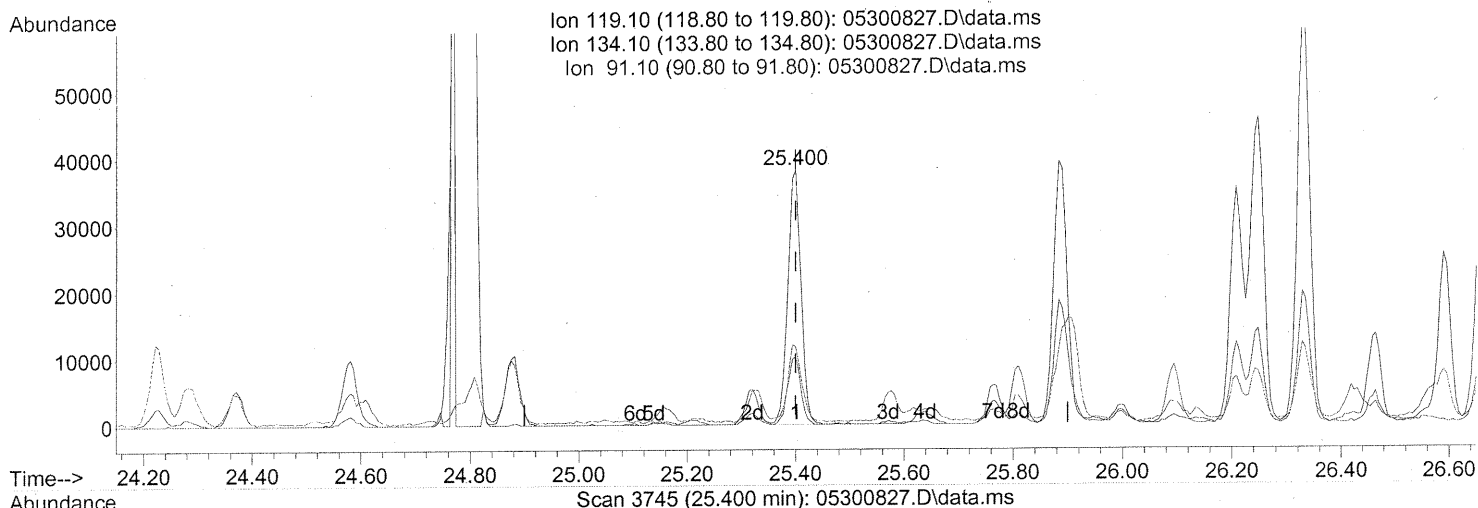
response 173554

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.75ng

response 64775

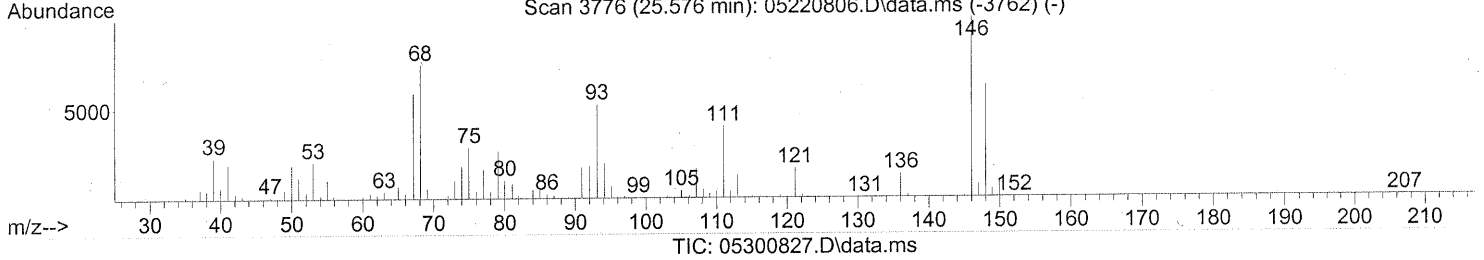
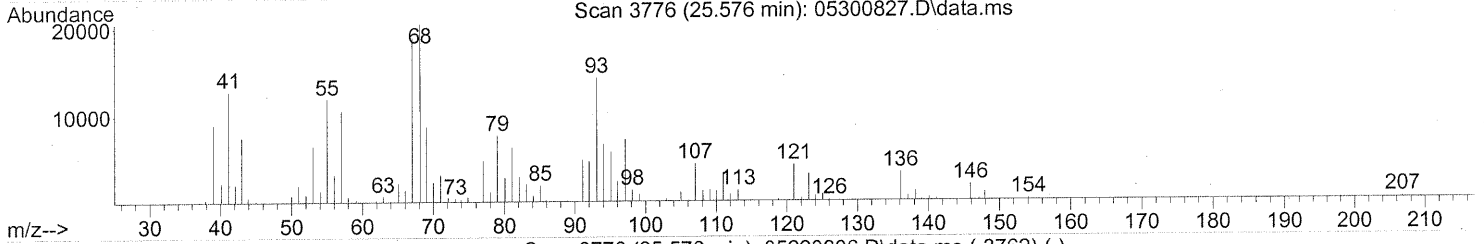
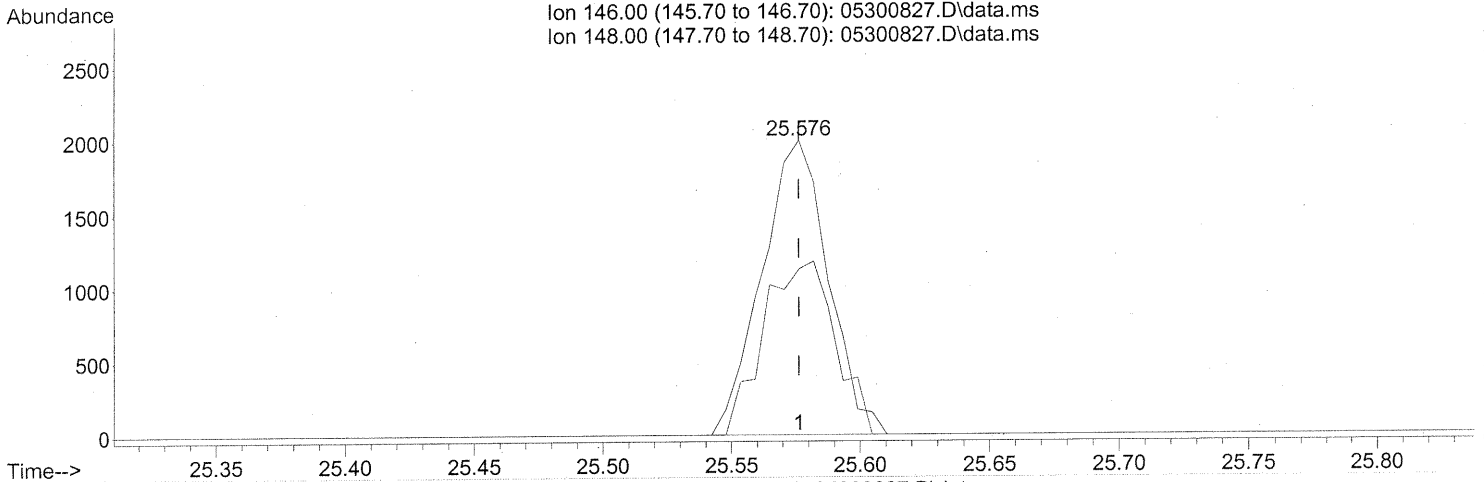
Ion	Exp%	Act%
119.10	100	100
134.10	27.20	26.52
91.10	27.10	32.23
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.576min (+0.000) 0.07ng

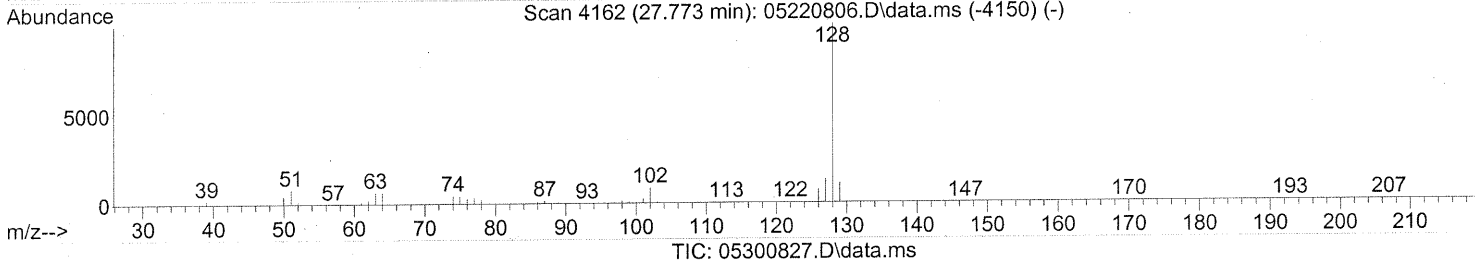
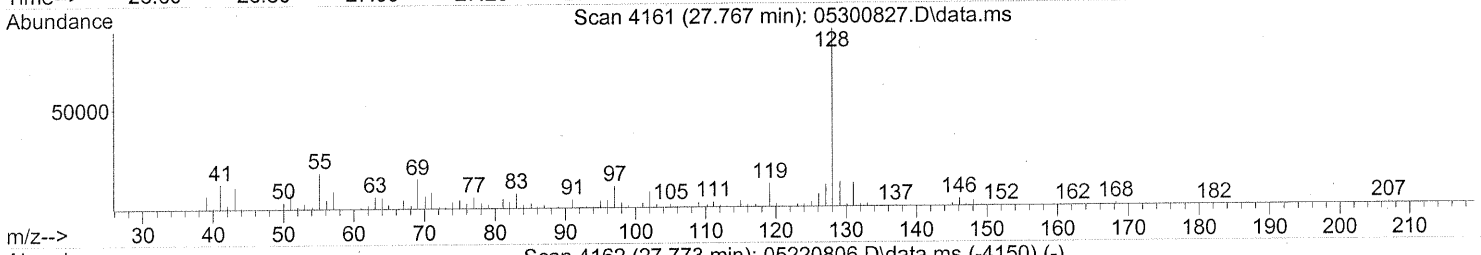
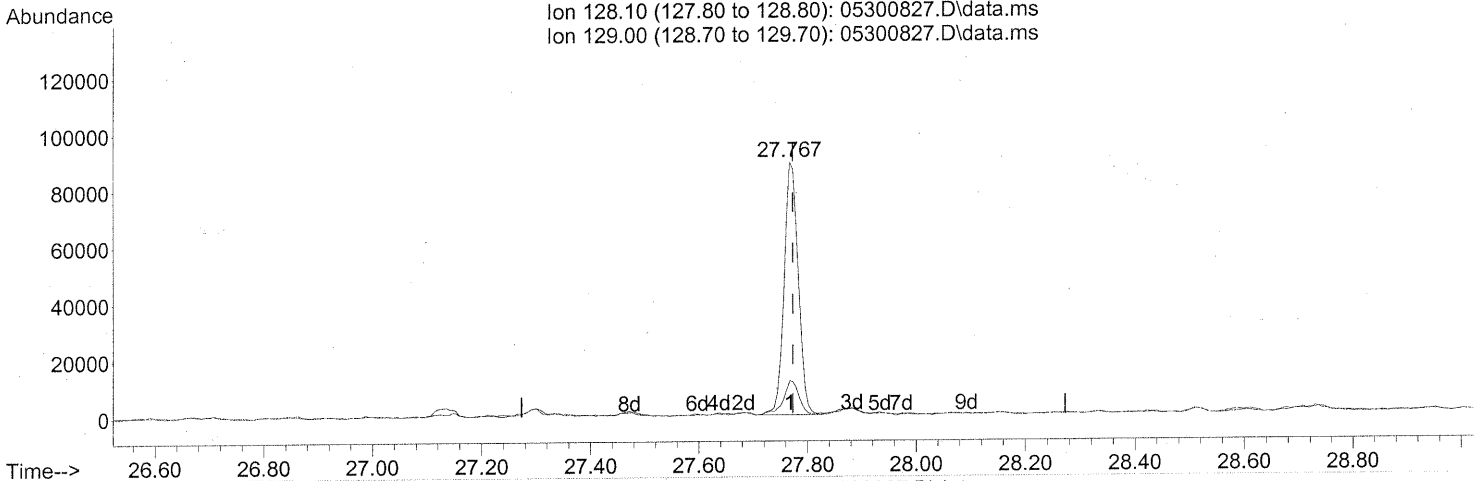
response 3570

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	63.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Cont)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 05 19:04:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

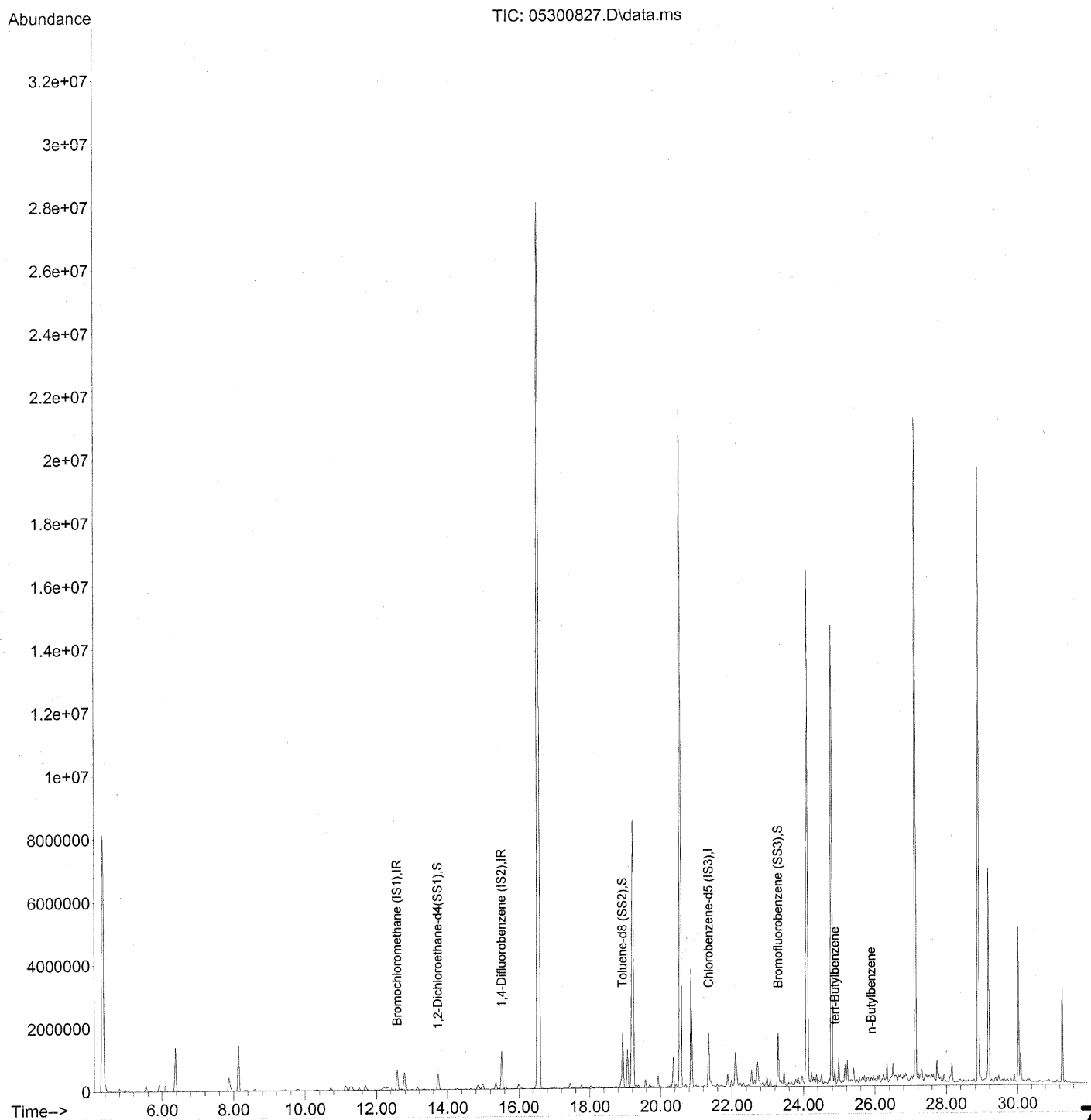


(95) Naphthalene (T)  
 27.767min (-0.006) 1.49ng  
 response 162124

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	15.40
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:22:54 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:22:54 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	349563	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.52	114	1475986	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	672064	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	539061	22.256	ng	-0.02
Spiked Amount	25.000		Recovery	=	89.04%	✓
5) Toluene-d8 (SS2)	18.93	98	1507235	24.972	ng	-0.01
Spiked Amount	25.000		Recovery	=	99.88%	✓
6) Bromofluorobenzene (SS3)	23.29	174	644229	26.247	ng	0.00
Spiked Amount	25.000		Recovery	=	105.00%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	19306	<del>0.245</del>	ng	# 54
8) n-Butylbenzene	25.90	91	41654	0.477	ng	# 64

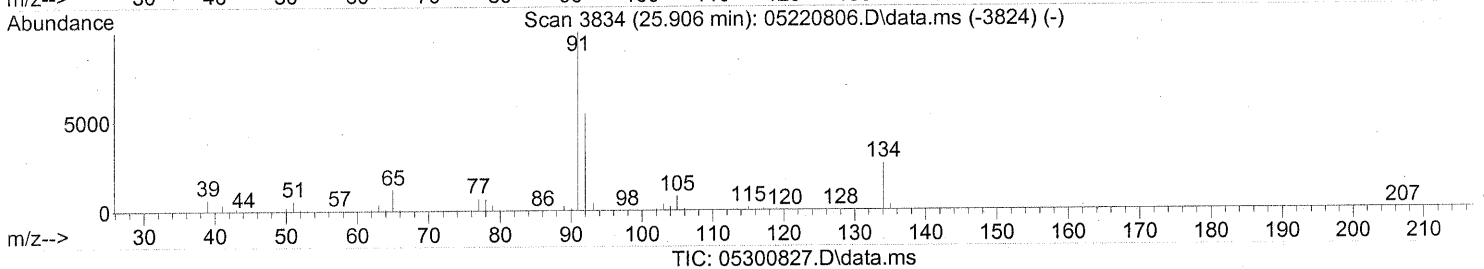
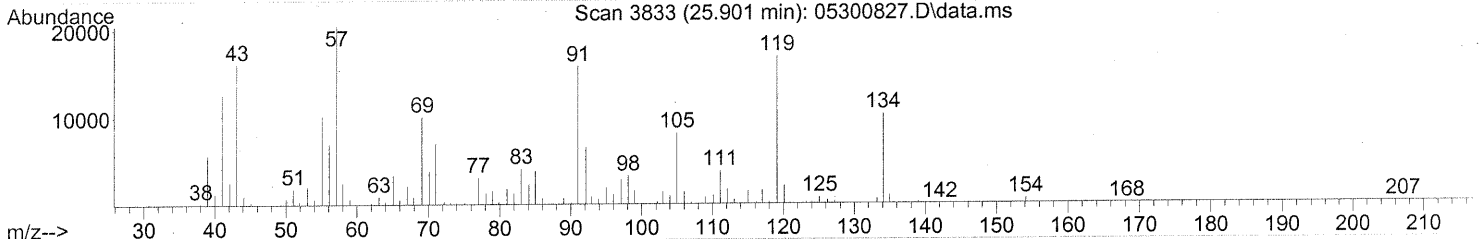
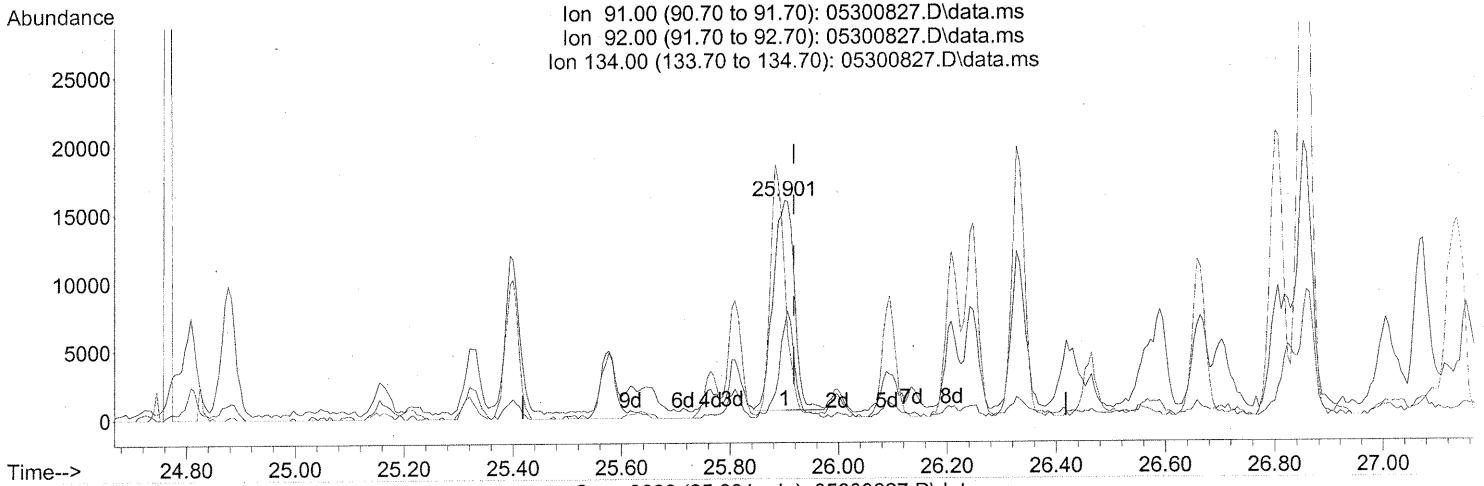
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*206/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300827.D  
 Acq On : 31 May 2008 5:28 am  
 Operator : WA  
 Sample : P0801548-011 (1000ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:22:54 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

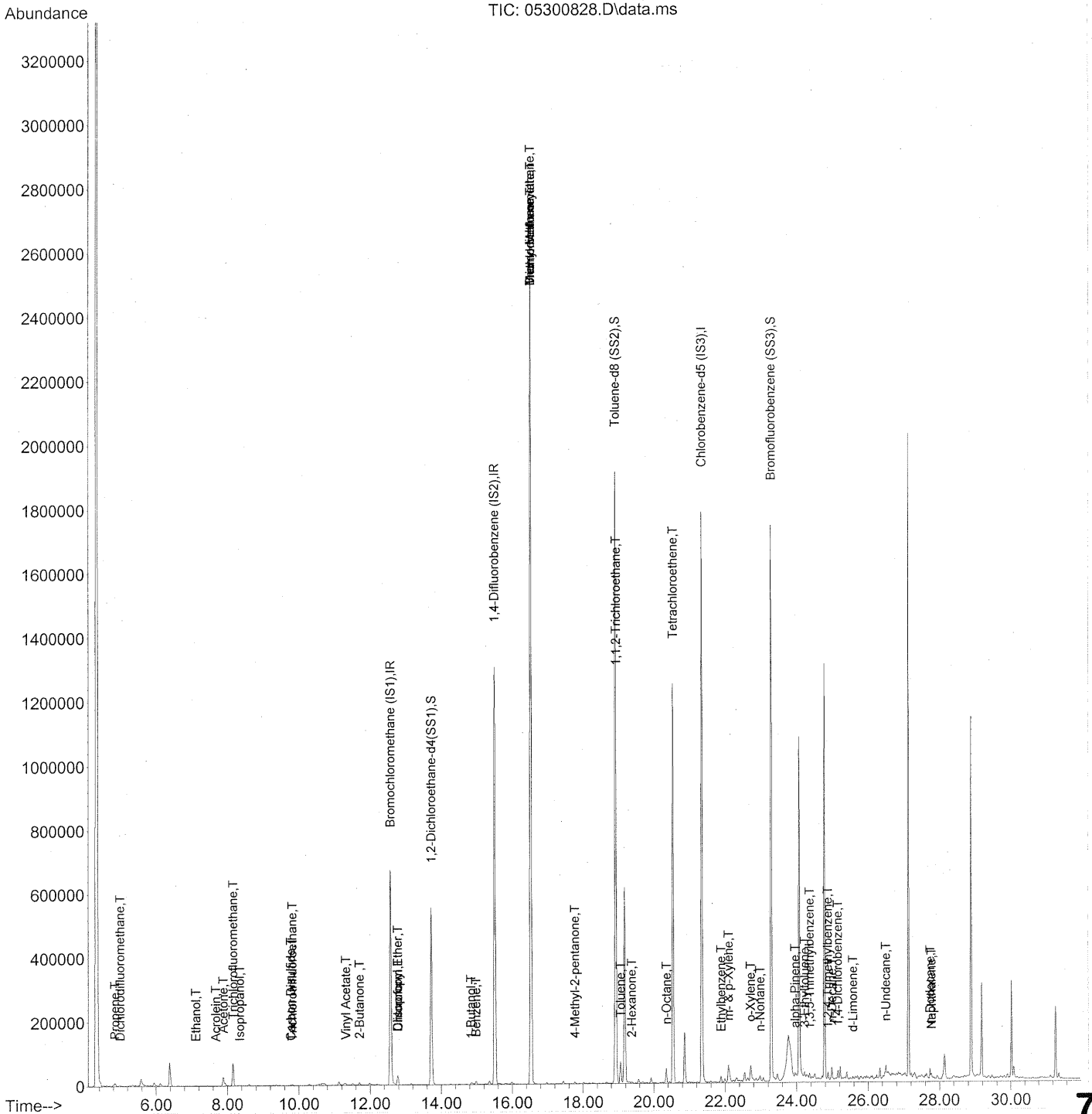
25.901min (-0.017) 0.48ng

response 41654

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	36.55#
134.00	28.80	0.00#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



718

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	369040	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1560529	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	710901	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	574418	22.464	ng	0.00
Spiked Amount	25.000		Recovery =	89.84%	✓	
57) Toluene-d8 (SS2)	18.92	98	1626664	25.478	ng	0.00
Spiked Amount	25.000		Recovery =	101.92%	✓	
73) Bromofluorobenzene (SS3)	23.29	174	674575	25.982	ng	0.00
Spiked Amount	25.000		Recovery =	103.92%	✓	

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	4197	0.144	ng	# 74
3) Dichlorodifluoromethane	4.99	85	3768	0.070	ng	# 96
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	5.94	54	52	N.D.		
8) Bromomethane	6.52	94	176	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.11	45	1858	0.096	ng	75
11) Acetonitrile	7.46	41	953	N.D.		
12) Acrolein	7.67	56	928	0.067	ng	93
13) Acetone	7.88	58	20924	1.053	ng	93
14) Trichlorofluoromethane	8.16	101	83925	1.821	ng	98
15) Isopropanol	8.34	45	4769	0.075	ng	95
16) Acrylonitrile	8.60	53	467	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.28	59	1951	N.D.		
19) Methylene Chloride	9.36	84	912	N.D.		
20) Allyl Chloride	9.49	41	52	N.D.		
21) Trichlorotrifluoroethane	9.82	151	1252	0.060	ng	96
22) Carbon Disulfide	9.77	76	6237	0.074	ng	87
23) trans-1,2-Dichloroethene	10.67	61	53	N.D.		
24) 1,1-Dichloroethane	0.00	63	0	N.D.		
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.32	86	1735	0.473	ng	# 1
27) 2-Butanone	11.70	72	3426	0.236	ng	# 91
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	3077	0.173	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	353	N.D.		

4/06/05/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	32149	0.955	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.76	62	71	N.D.		
38) 1,1,1-Trichloroethane	14.27	97	744	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.84	56	6971	0.325	ng	97
41) Benzene	14.98	78	12102	0.148	ng	98
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.35	84	1044	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	16.53	83	14402	0.521	ng	98
47) Trichloroethene	16.53	130	1296596	51.728	ng	99
48) 1,4-Dioxane	16.51	88	111	N.D.		
49) Isooctane	16.61	57	1874	N.D.		
50) Methyl Methacrylate	16.53	100	2623	0.321	ng	# 1
51) n-Heptane	16.98	71	898	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1646	0.076	ng	80
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	143750	7.119	ng	# 9
58) Toluene	19.06	91	45293	0.522	ng	97
59) 2-Hexanone	19.37	43	3372	0.056	ng	# 55
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.19	43	688	N.D.		
63) n-Octane	20.35	57	9847	0.513	ng	86
64) Tetrachloroethene	20.54	166	490648	19.106	ng	99
65) Chlorobenzene	21.40	112	1990	N.D.		
66) Ethylbenzene	21.88	91	19459	0.196	ng	94
67) m- & p-Xylene	22.09	91	53046	0.797	ng	93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	321	N.D.		
70) o-Xylene	22.71	91	17334	0.241	ng	88
71) n-Nonane	22.98	43	8465	0.166	ng	84
72) 1,1,2,2-Tetrachloroethane	22.70	83	570	N.D.		
74) Cumene	23.46	105	1220	N.D.		
75) alpha-Pinene	23.96	93	7708	0.156	ng	93
76) n-Propylbenzene	24.10	91	4107	N.D.		
77) 3-Ethyltoluene	24.22	105	8795	0.086	ng	98
78) 4-Ethyltoluene	24.28	105	3950	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	4893	0.057	ng	90

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Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	228	N.D.		
81) 2-Ethyltoluene	24.61	105	2977	N.D.		
82) 1,2,4-Trimethylbenzene	24.87	105	7918	0.091	ng	83
83) n-Decane	24.98	57	14478	0.301	ng	67
84) Benzyl Chloride	25.03	91	384	N.D.		
85) 1,3-Dichlorobenzene	25.05	146	55	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	8788	0.166	ng	96
87) sec-Butylbenzene	25.21	105	493	N.D.		
88) p-Isopropyltoluene	25.39	119	3402	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	2969	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	57	N.D.		
91) d-Limonene	25.57	68	2282	0.066	ng	99
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	11483	0.228	ng	70
94) 1,2,4-Trichlorobenzene	27.63	180	62	N.D.		
95) Naphthalene	27.77	128	9654	0.084	ng	99
96) n-Dodecane	27.73	57	9574	0.191	ng	# 60
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

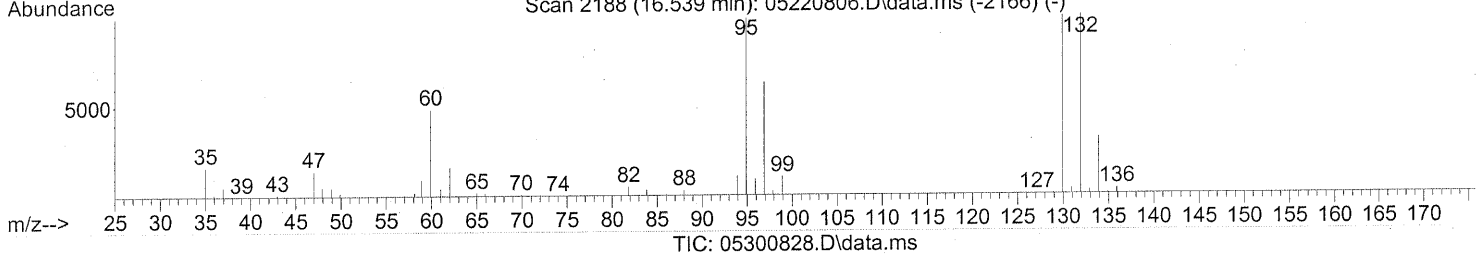
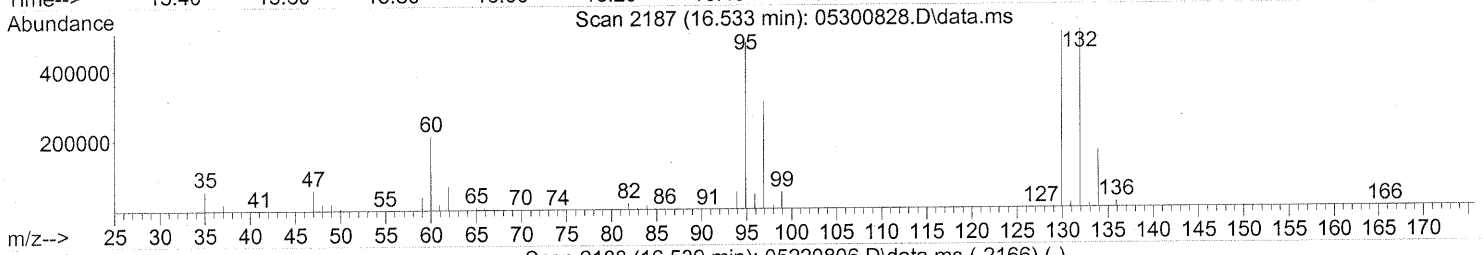
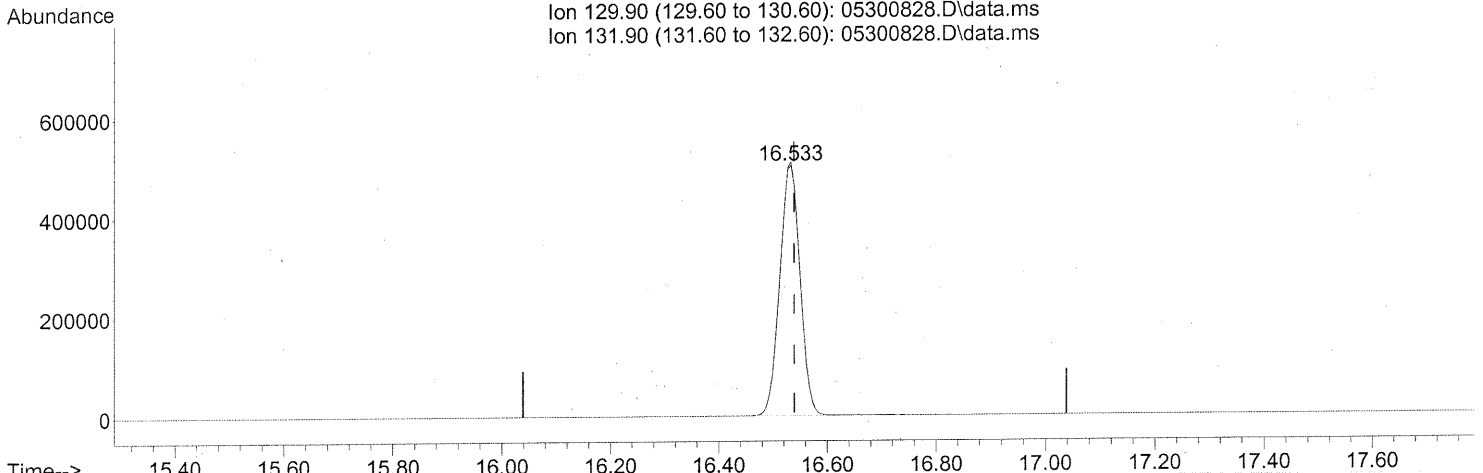
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Probst*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31 am  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



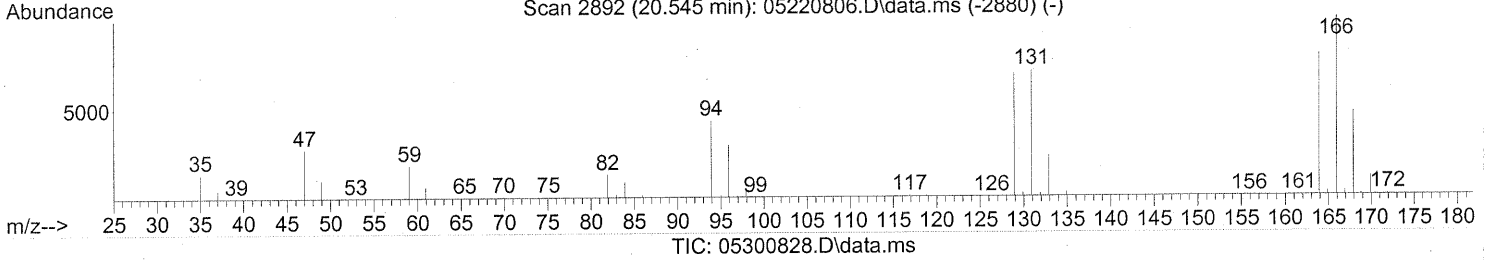
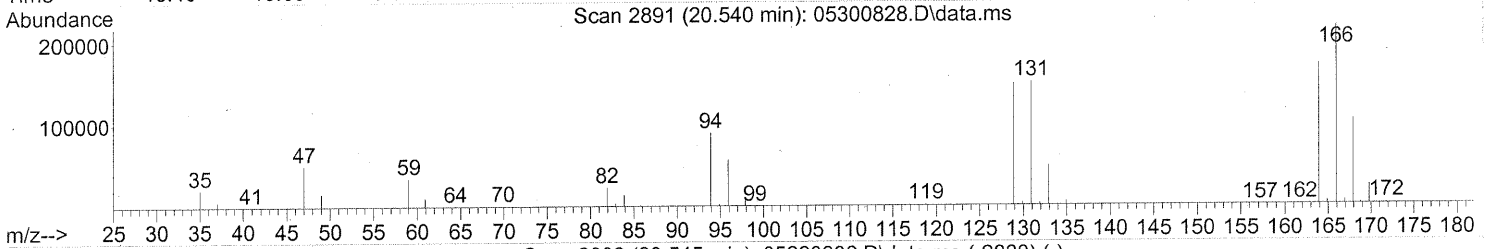
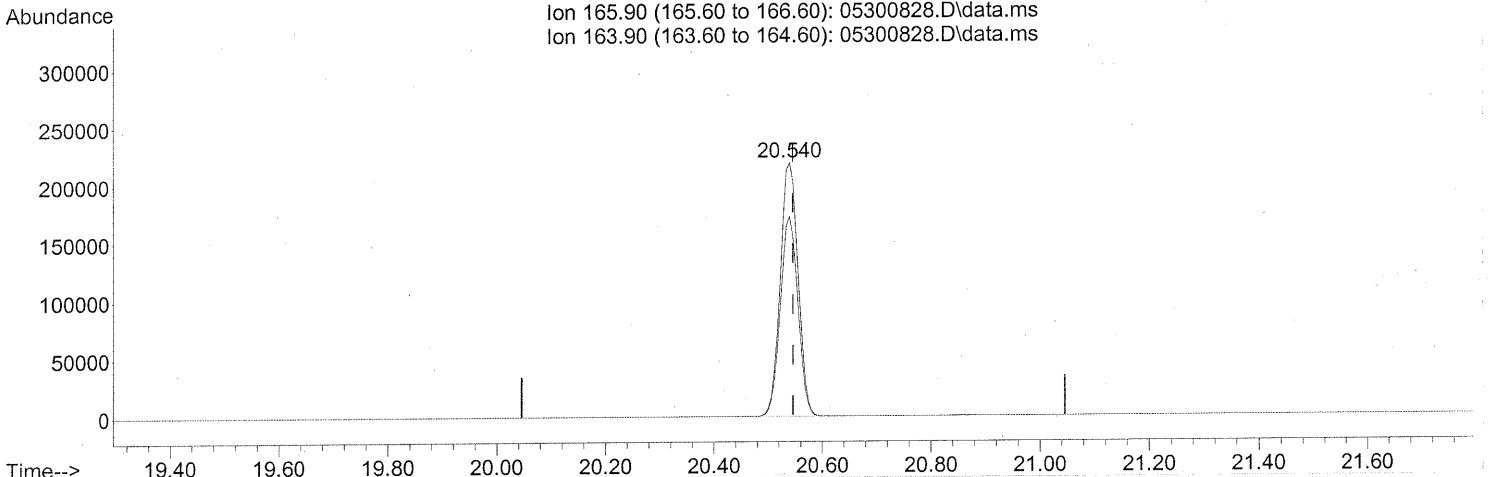
(47) Trichloroethene (T)  
 16.533min (-0.006) 51.73ng  
 response 1296596

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300828.D  
 Acq On : 31 May 2008 6:31 am  
 Operator : WA  
 Sample : P0801548-011 Dil (50ml)  
 Misc : ENSR SG47B-05 (-3.7,3.6)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 31 07:30:29 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 19.11ng

response 490648

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.81
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-012

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00627

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	1.7	0.17	0.40	0.33	0.033	
74-87-3	Chloromethane	ND	0.33	0.17	ND	0.16	0.080	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.7	0.17	ND	0.24	0.024	
75-01-4	Vinyl Chloride	0.52	0.33	0.17	0.20	0.13	0.065	
74-83-9	Bromomethane	ND	0.33	0.17	ND	0.085	0.043	
75-00-3	Chloroethane	100	0.33	0.17	39	0.13	0.063	
64-17-5	Ethanol	2.4	17	0.17	1.3	8.8	0.088	J, B
67-64-1	Acetone	14	17	0.24	5.7	6.9	0.10	J, B, M
75-69-4	Trichlorofluoromethane	1.0	0.33	0.17	0.19	0.059	0.029	
107-13-1	Acrylonitrile	ND	1.7	0.23	ND	0.76	0.11	
75-35-4	1,1-Dichloroethene	3.5	0.33	0.17	0.88	0.083	0.042	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.77	1.7	0.24	0.25	0.54	0.081	J
75-09-2	Methylene Chloride	12	1.7	0.17	3.5	0.48	0.048	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.17	ND	0.11	0.053	
76-13-1	Trichlorotrifluoroethane	0.48	0.33	0.18	0.062	0.043	0.024	
75-15-0	Carbon Disulfide	1.1	1.7	0.40	0.35	0.53	0.13	J
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.17	ND	0.083	0.042	
75-34-3	1,1-Dichloroethane	130	0.33	0.17	32	0.082	0.041	
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.17	ND	0.092	0.046	
108-05-4	Vinyl Acetate	4.9	17	0.53	1.4	4.7	0.15	J, B
78-93-3	2-Butanone (MEK)	4.2	1.7	0.17	1.4	0.56	0.056	B
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.17	ND	0.083	0.042	
108-20-3	Diisopropyl Ether	ND	1.7	0.19	ND	0.39	0.047	
67-66-3	Chloroform	1,400	0.33	0.19	280	0.068	0.040	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
CAS Sample ID: P0801548-012

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
Analyst: Rusty Bravo  
Sampling Media: 6.0 L Summa Canister  
Test Notes:  
Container ID: SC00627

Date Collected: 5/21/08  
Date Received: 5/23/08  
Date Analyzed: 6/2/08  
Volume(s) Analyzed: 0.50 Liter(s)  
0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.7	0.17	ND	0.39	0.040	
107-06-2	<b>1,2-Dichloroethane</b>	<b>13</b>	0.33	0.17	<b>3.2</b>	0.082	0.041	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.17	ND	0.061	0.030	
71-43-2	<b>Benzene</b>	<b>5.0</b>	0.33	0.17	<b>1.6</b>	0.10	0.052	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.46</b>	0.33	0.17	<b>0.073</b>	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.7	0.17	ND	0.39	0.039	
78-87-5	1,2-Dichloropropane	ND	0.33	0.17	ND	0.071	0.036	
75-27-4	<b>Bromodichloromethane</b>	<b>0.24</b>	0.33	0.17	<b>0.036</b>	0.049	0.025	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>1.1</b>	0.33	0.17	<b>0.21</b>	0.061	0.031	
123-91-1	1,4-Dioxane	ND	1.7	0.20	ND	0.46	0.056	
80-62-6	Methyl Methacrylate	ND	1.7	0.25	ND	0.40	0.060	
142-82-5	<b>n-Heptane</b>	<b>0.52</b>	1.7	0.21	<b>0.13</b>	0.40	0.052	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.7	0.17	ND	0.36	0.038	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.85</b>	1.7	0.18	<b>0.21</b>	0.40	0.045	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	1.7	0.21	ND	0.36	0.046	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>5.4</b>	0.33	0.17	<b>0.99</b>	0.061	0.030	
108-88-3	<b>Toluene</b>	<b>8.4</b>	1.7	0.17	<b>2.2</b>	0.44	0.044	
591-78-6	<b>2-Hexanone</b>	<b>0.77</b>	1.7	0.25	<b>0.19</b>	0.40	0.061	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.039	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.043	0.023	
111-65-9	<b>n-Octane</b>	<b>0.71</b>	1.7	0.17	<b>0.15</b>	0.35	0.035	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>65</b>	0.33	0.17	<b>9.5</b>	0.049	0.024	
108-90-7	<b>Chlorobenzene</b>	<b>1.5</b>	0.33	0.17	<b>0.32</b>	0.072	0.037	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:                           Date: 6/10/08      **725**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-012

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00627

Date Collected: 5/21/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.030 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.4	1.7	0.20	0.56	0.38	0.047	
179601-23-1	m,p-Xylenes	11	1.7	0.43	2.5	0.38	0.099	
75-25-2	Bromoform	ND	1.7	0.25	ND	0.16	0.024	
100-42-5	Styrene	ND	1.7	0.25	ND	0.39	0.059	
95-47-6	o-Xylene	3.5	1.7	0.21	0.81	0.38	0.048	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.048	0.031	
98-82-8	Cumene	ND	1.7	0.18	ND	0.34	0.038	
103-65-1	n-Propylbenzene	0.56	1.7	0.17	0.11	0.34	0.035	J
622-96-8	4-Ethyltoluene	0.88	1.7	0.19	0.18	0.34	0.038	J
108-67-8	1,3,5-Trimethylbenzene	0.93	1.7	0.20	0.19	0.34	0.040	J
98-83-9	alpha-Methylstyrene	ND	1.7	0.24	ND	0.34	0.050	
95-63-6	1,2,4-Trimethylbenzene	2.2	1.7	0.23	0.45	0.34	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.064	0.055	
541-73-1	1,3-Dichlorobenzene	0.25	0.33	0.20	0.041	0.055	0.034	J
106-46-7	1,4-Dichlorobenzene	11	0.33	0.18	1.8	0.055	0.031	
135-98-8	sec-Butylbenzene	ND	1.7	0.19	ND	0.30	0.035	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.47	1.7	0.21	0.085	0.30	0.039	J
95-50-1	1,2-Dichlorobenzene	0.33	0.33	0.22	0.055	0.055	0.036	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.7	0.25	ND	0.17	0.026	
120-82-1	1,2,4-Trichlorobenzene	1.9	0.33	0.25	0.25	0.044	0.034	
91-20-3	Naphthalene	6.9	0.66	0.24	1.3	0.13	0.047	B
87-68-3	Hexachlorobutadiene	4.8	0.33	0.30	0.45	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.66	0.17	ND	0.12	0.030	
104-51-8	n-Butylbenzene	1.7	0.66	0.17	0.31	0.12	0.030	

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

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

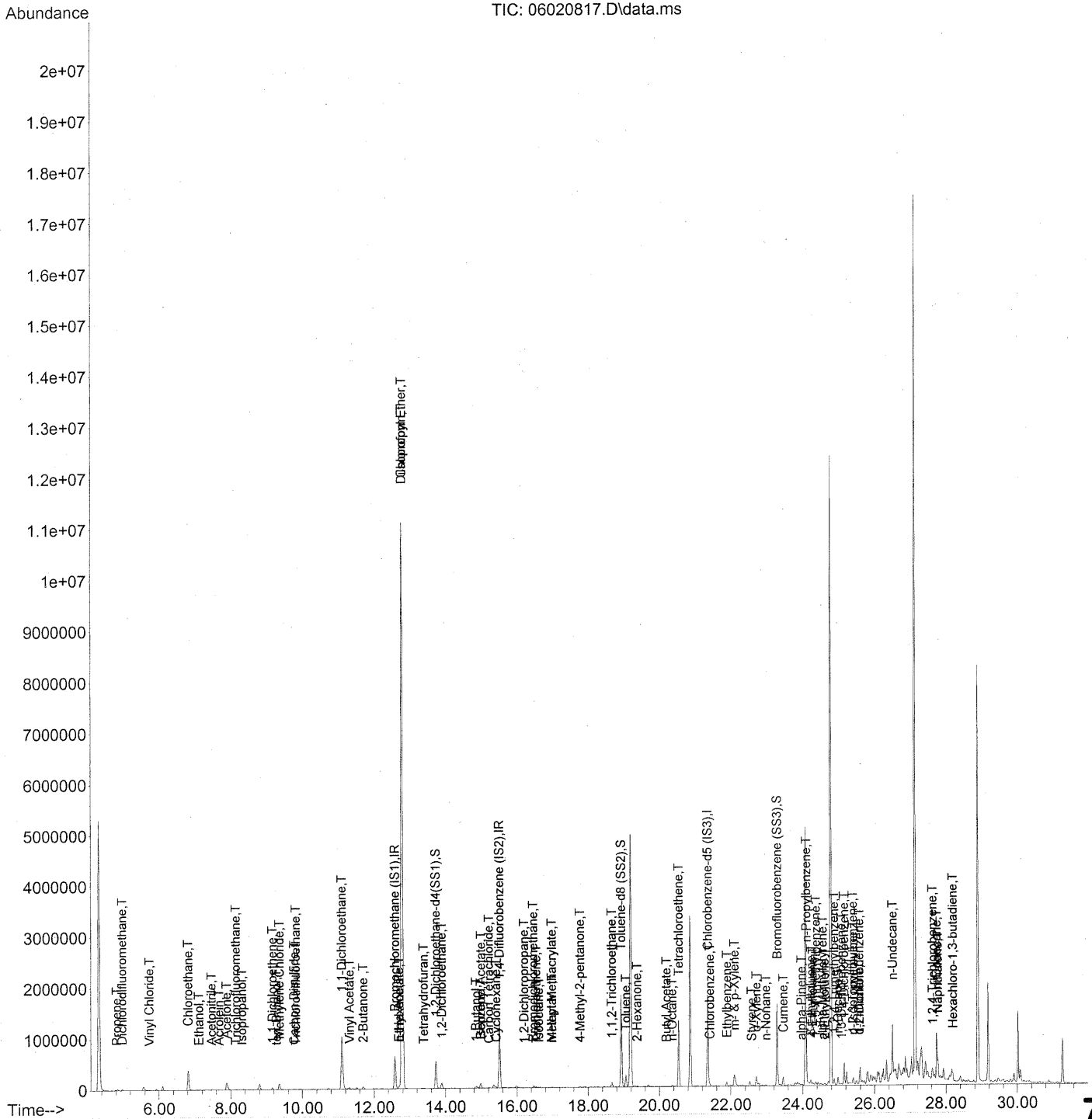
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA      Date: 6/16/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	344464	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1500022	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	705477	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	538778	22.573	ng	0.00
Spiked Amount			Recovery =	25.000		90.28% ✓
57) Toluene-d8 (SS2)	18.93	98	1542515	24.346	ng	0.00
Spiked Amount			Recovery =	25.000		97.40% ✓
73) Bromofluorobenzene (SS3)	23.29	174	625625	24.282	ng	0.00
Spiked Amount			Recovery =	25.000		97.12% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	9525	0.350	ng	# 82
3) Dichlorodifluoromethane	4.97	85	30171	0.602	ng	97
4) Chloromethane	5.29	50	448	N.D. ✓		
5) Freon 114	5.54	135	530	N.D. ✓		
6) Vinyl Chloride	5.73	62	5141	0.158	ng	99
7) 1,3-Butadiene	5.99	54	527	N.D.		
8) Bromomethane	0.00	94	0	N.D. ✓		
9) Chloroethane	6.81	64	484416	31.388	ng	96
10) Ethanol	7.11	45	13172	0.727	ng	95
11) Acetonitrile	7.46	41	11022	0.210	ng	76
12) Acrolein	7.67	56	4595	0.355	ng	87
13) Acetone	7.88	58	75939	4.095	ng	M# 70
14) Trichlorofluoromethane	8.14	101	13665	0.318	ng	96
15) Isopropanol	8.32	45	34389	0.581	ng	89
16) Acrylonitrile	8.66	53	198	N.D. ✓		
17) 1,1-Dichloroethene	9.16	96	20095	1.062	ng	# 76
18) tert-Butanol	9.27	59	11748m	0.234	ng	
19) Methylene Chloride	9.36	84	76541	3.693	ng	# 78
20) Allyl Chloride	9.48	41	204	N.D. ✓		
21) Trichlorotrifluoroethane	9.81	151	2811	0.144	ng	89
22) Carbon Disulfide	9.77	76	26006	0.331	ng	98
23) trans-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
24) 1,1-Dichloroethane	11.10	63	1414593	39.338	ng	95
25) Methyl tert-Butyl Ether	11.23	73	2042	N.D. ✓		
26) Vinyl Acetate	11.31	86	5070	1.479	ng	# 1
27) 2-Butanone	11.69	72	17031	1.258	ng	93
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.79	87	1403587	<del>84.636</del>	ng	# 1
30) Ethyl Acetate	12.70	61	6961	0.953	ng	83
31) n-Hexane	12.69	57	11962	0.324	ng	# 7

*Ex 06/08*



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	12426110	<del>395.599</del>	ng	97
34) Tetrahydrofuran	13.39	72	2252	0.174	ng	93
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.89	62	120114	3.958	ng	96
38) 1,1,1-Trichloroethane	14.28	97	149	N.D.	✓	
39) Isopropyl Acetate	14.99	61	523	0.041	ng	# 1
40) 1-Butanol	14.85	56	46071	2.234	ng	88
41) Benzene	14.99	78	118759	1.512	ng	100
42) Carbon Tetrachloride	15.21	117	4210	0.139	ng	94
43) Cyclohexane	15.41	84	13589	0.445	ng	# 60
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	✓	
45) 1,2-Dichloropropane	16.20	63	1037	<del>0.049</del>	ng	89
46) Bromodichloromethane	16.46	83	1929m	0.073	ng	
47) Trichloroethene	16.54	130	8045	0.334	ng	95
48) 1,4-Dioxane	0.00	88	0	N.D.	✓	
49) Isooctane	16.62	57	20603	0.229	ng	# 55
50) Methyl Methacrylate	16.98	100	1020	<del>0.130</del>	ng	# 1
51) n-Heptane	16.98	71	3282	0.157	ng	# 85
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
53) 4-Methyl-2-pentanone	17.77	58	5349	0.257	ng	81
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	✓	
55) 1,1,2-Trichloroethane	18.67	97	31703	1.633	ng	96
58) Toluene	19.06	91	220187	2.557	ng	98
59) 2-Hexanone	19.37	43	13897	0.234	ng	# 63
60) Dibromochloromethane	0.00	129	0	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	4308	0.072	ng	96
63) n-Octane	20.35	57	4121	0.216	ng	98
64) Tetrachloroethene	20.54	166	499033	19.582	ng	99
65) Chlorobenzene	21.41	112	25570	0.443	ng	97
66) Ethylbenzene	21.89	91	72903	0.738	ng	94
67) m- & p-Xylene	22.10	91	221198	3.349	ng	92
68) Bromoform	0.00	173	0	N.D.	✓	
69) Styrene	22.58	104	3237	<del>0.055</del>	ng	88
70) o-Xylene	22.71	91	75830	1.063	ng	96
71) n-Nonane	22.98	43	11471	0.227	ng	# 76
72) 1,1,2,2-Tetrachloroethane	22.71	83	985	N.D.	✓	
74) Cumene	23.46	105	4646	<del>0.049</del>	ng	94
75) alpha-Pinene	23.97	93	8107	0.165	ng	98
76) n-Propylbenzene	24.10	91	20413	0.169	ng	# 1
77) 3-Ethyltoluene	24.23	105	52963	0.524	ng	99
78) 4-Ethyltoluene	24.28	105	25091	0.266	ng	98
79) 1,3,5-Trimethylbenzene	24.37	105	24003	0.282	ng	95

*See dir*

**729**

*8/06/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	2913	0.063	ng	79
81) 2-Ethyltoluene	24.61	105	20154	0.197	ng	98
82) 1,2,4-Trimethylbenzene	24.88	105	58355	0.673	ng	88
83) n-Decane	24.98	57	59831	1.255	ng	68
84) Benzyl Chloride	25.04	91	913	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	4087	0.075	ng	90
86) 1,4-Dichlorobenzene	25.16	146	169401	3.225	ng	99
87) sec-Butylbenzene	25.21	105	2459	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	12825	0.141	ng	74
89) 1,2,3-Trimethylbenzene	25.40	105	29329	0.346	ng	90
90) 1,2-Dichlorobenzene	25.57	146	5211	0.101	ng	91
91) d-Limonene	25.57	68	13702	0.397	ng	78
92) 1,2-Dibromo-3-Chloropr...	26.24	157	216	N.D.	✓	
93) n-Undecane	26.50	57	443935	8.896	ng	83
94) 1,2,4-Trichlorobenzene	27.62	180	21117	0.561	ng	96
95) Naphthalene	27.77	128	240660	2.105	ng	92
96) n-Dodecane	27.73	57	296859	5.981	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	36491	1.456	ng	98

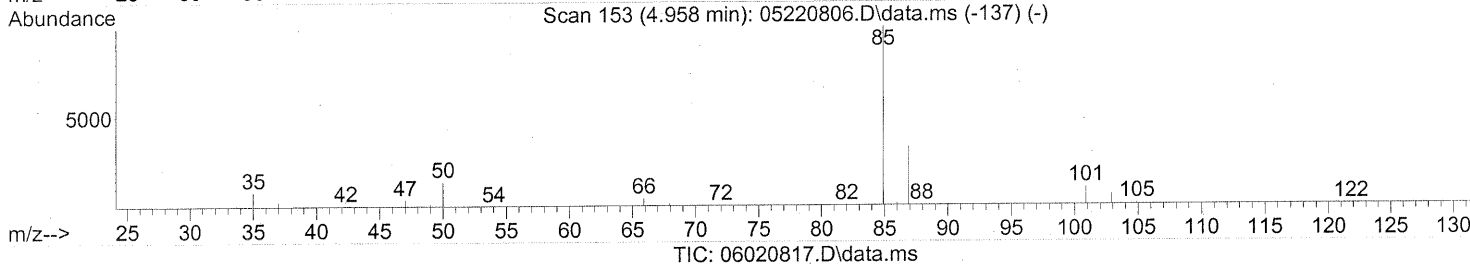
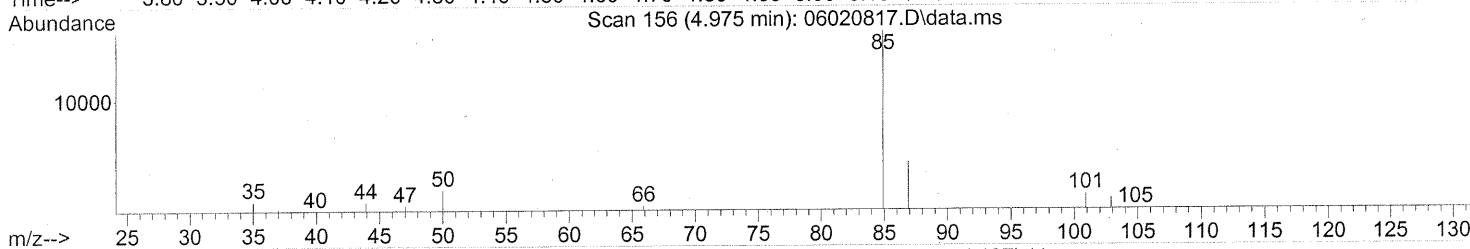
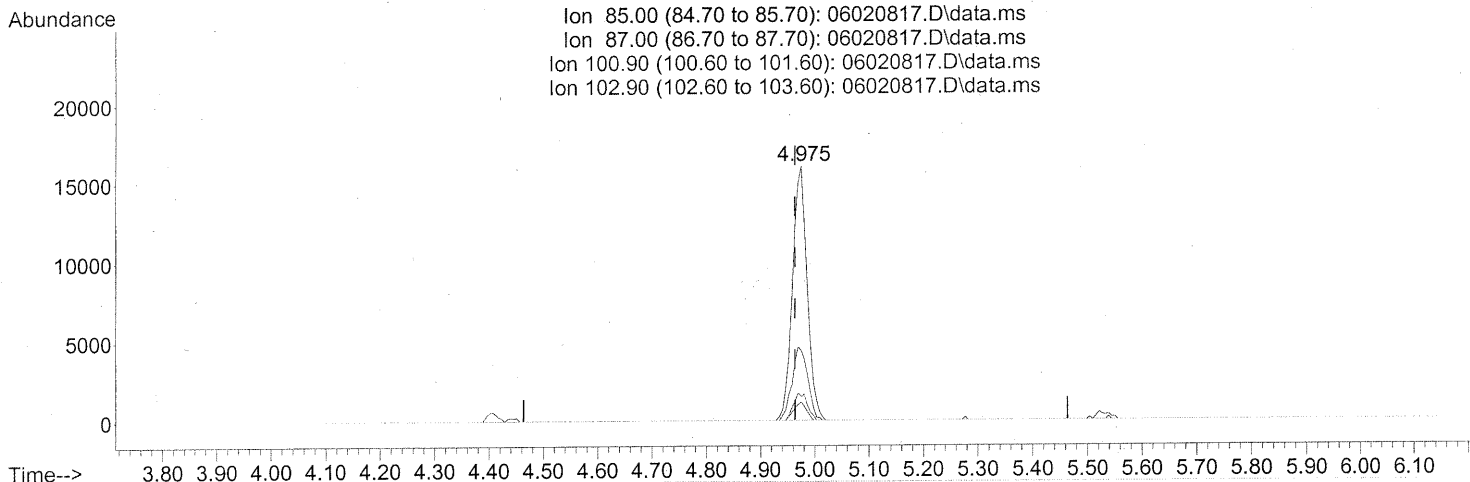
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Podolov*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.60ng

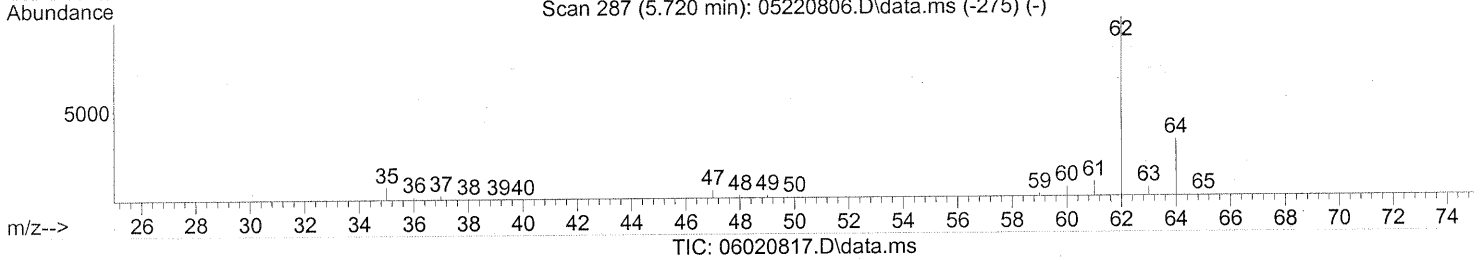
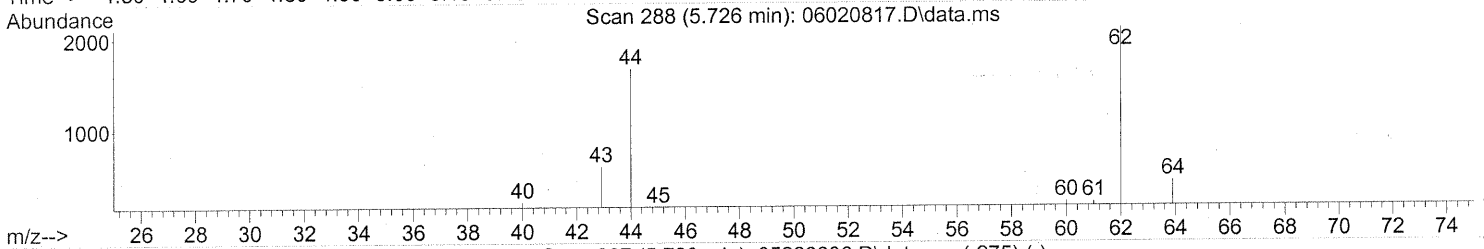
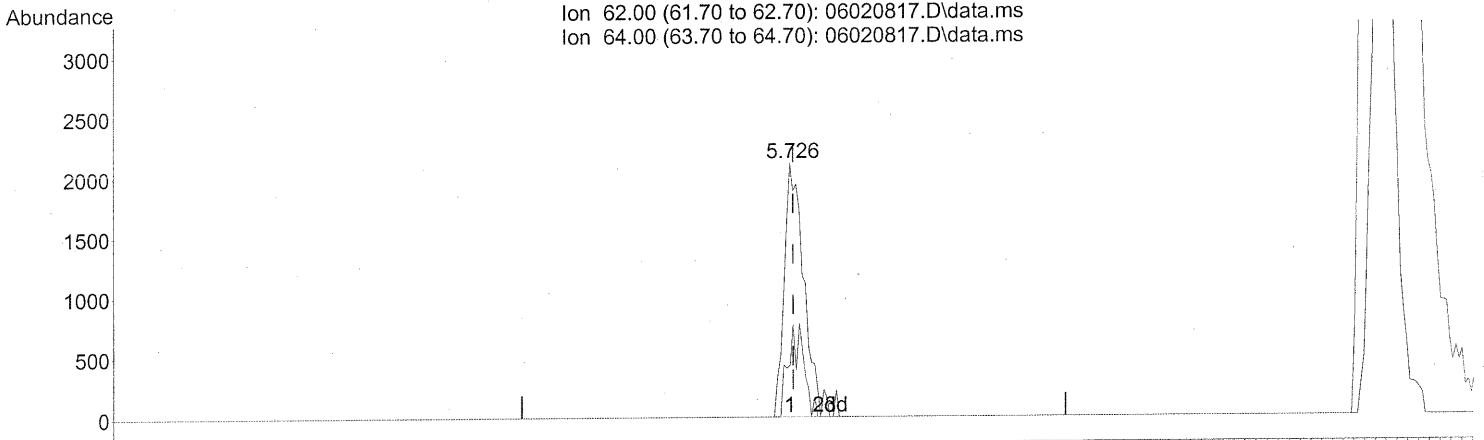
response 30171

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	30.63
100.90	9.30	10.04
102.90	6.00	5.99

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(6) Vinyl Chloride (T)

5.726min (-0.006) 0.16ng

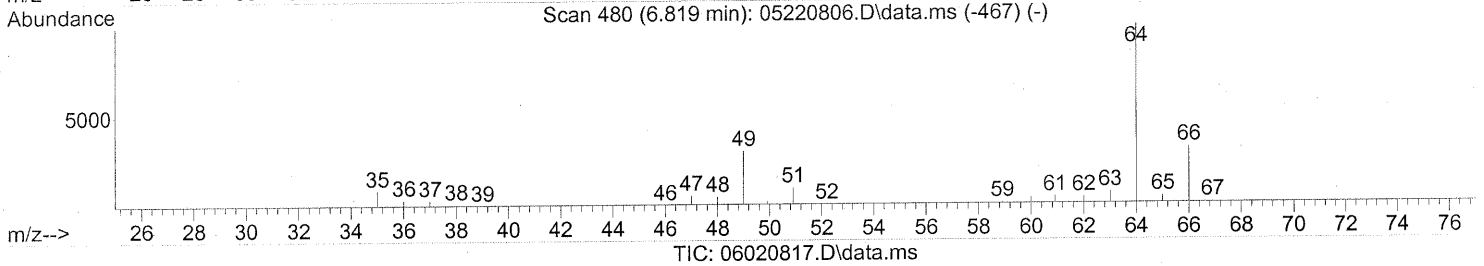
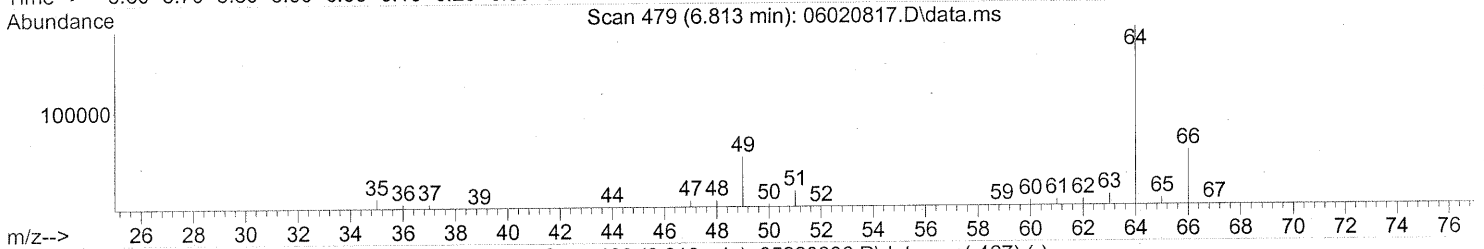
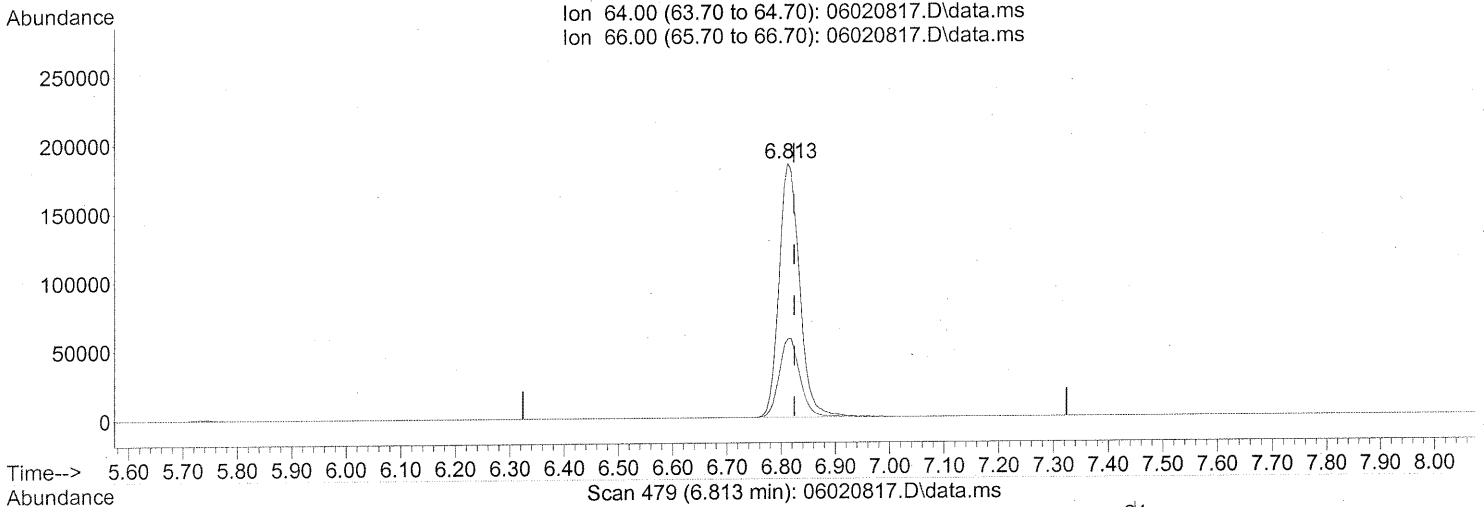
response 5141

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	29.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)

6.813min (-0.011) 31.39ng

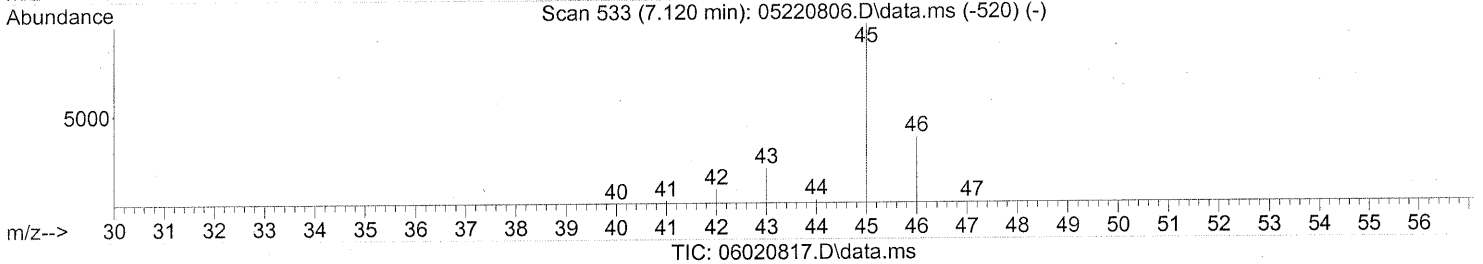
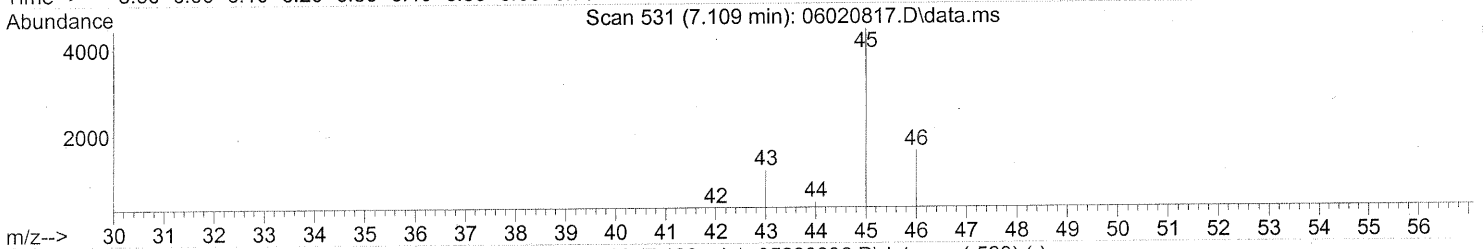
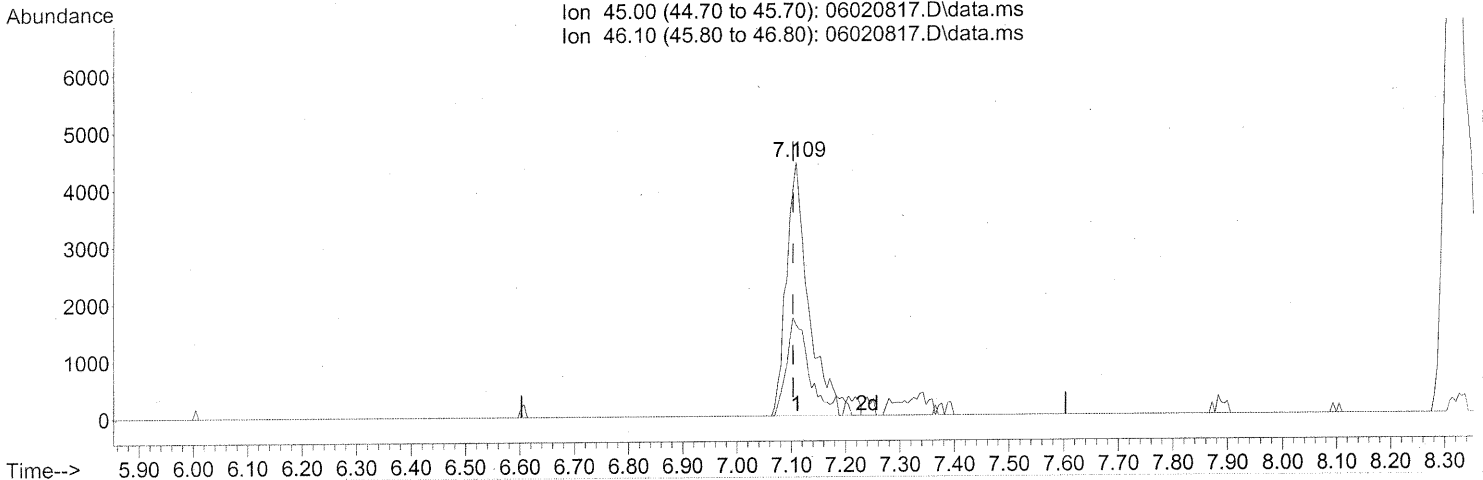
response 484416

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	31.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.109min (+0.006) 0.73ng

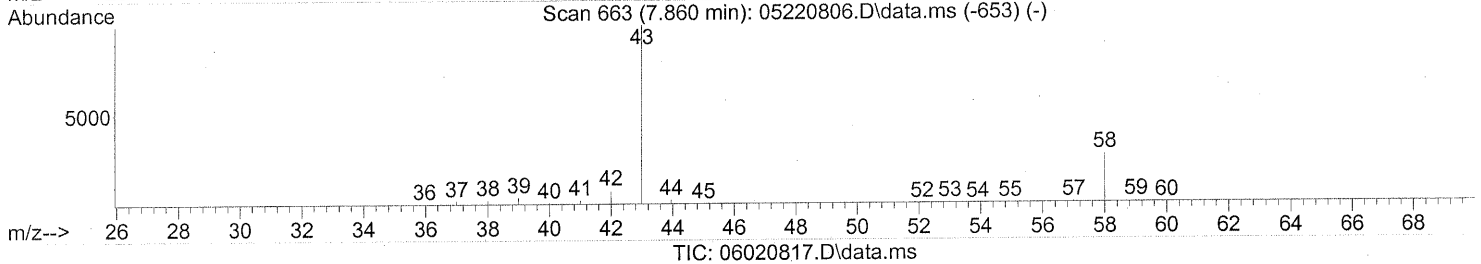
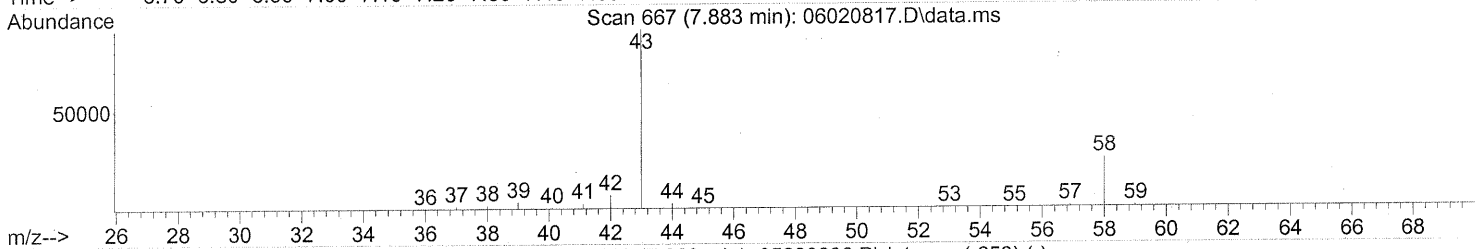
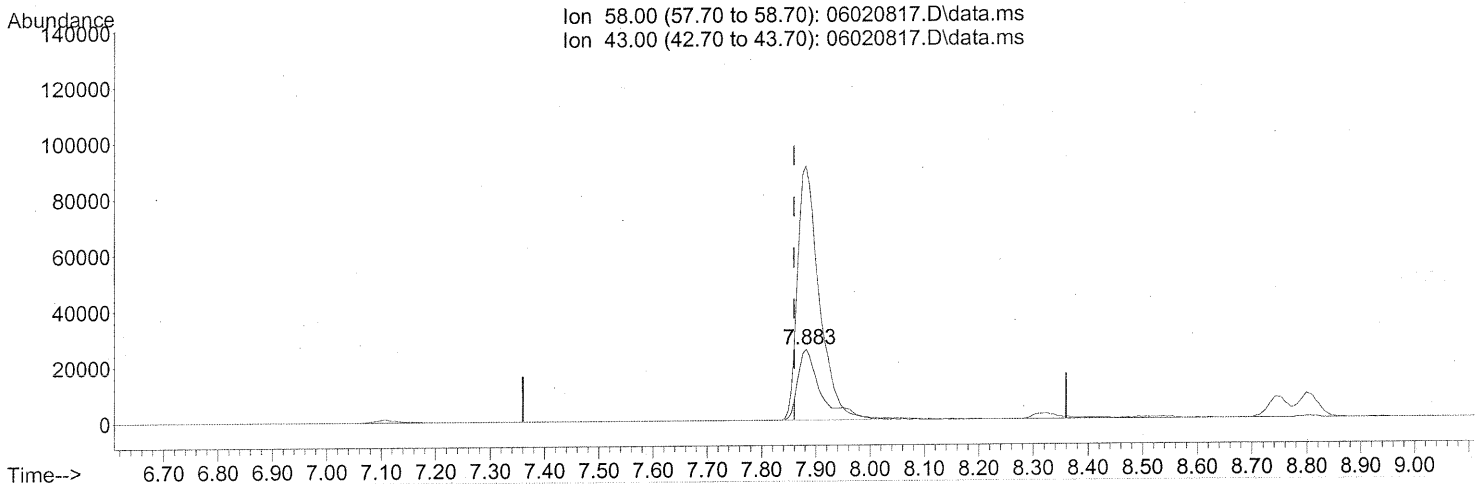
response 13172

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.883min (+0.023) 4.10ng

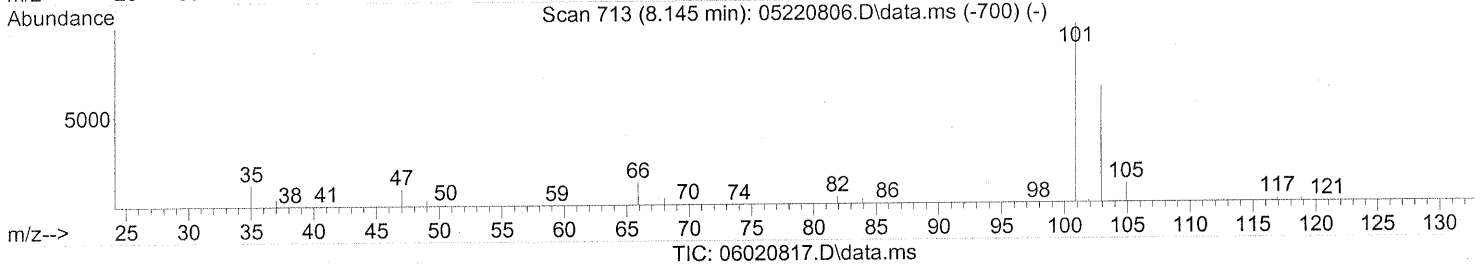
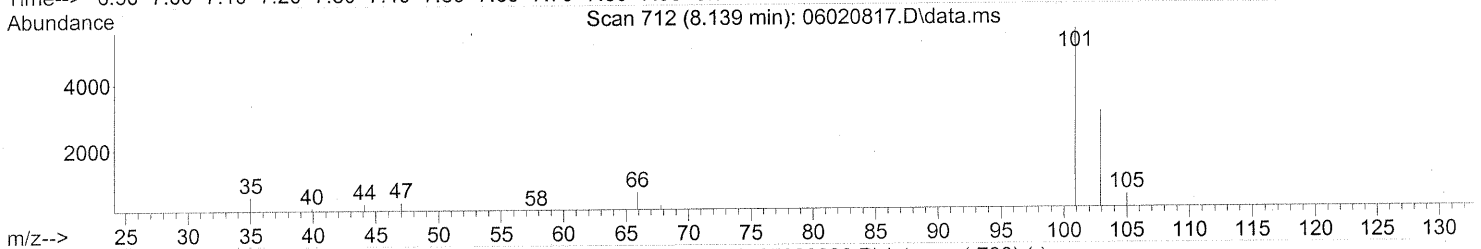
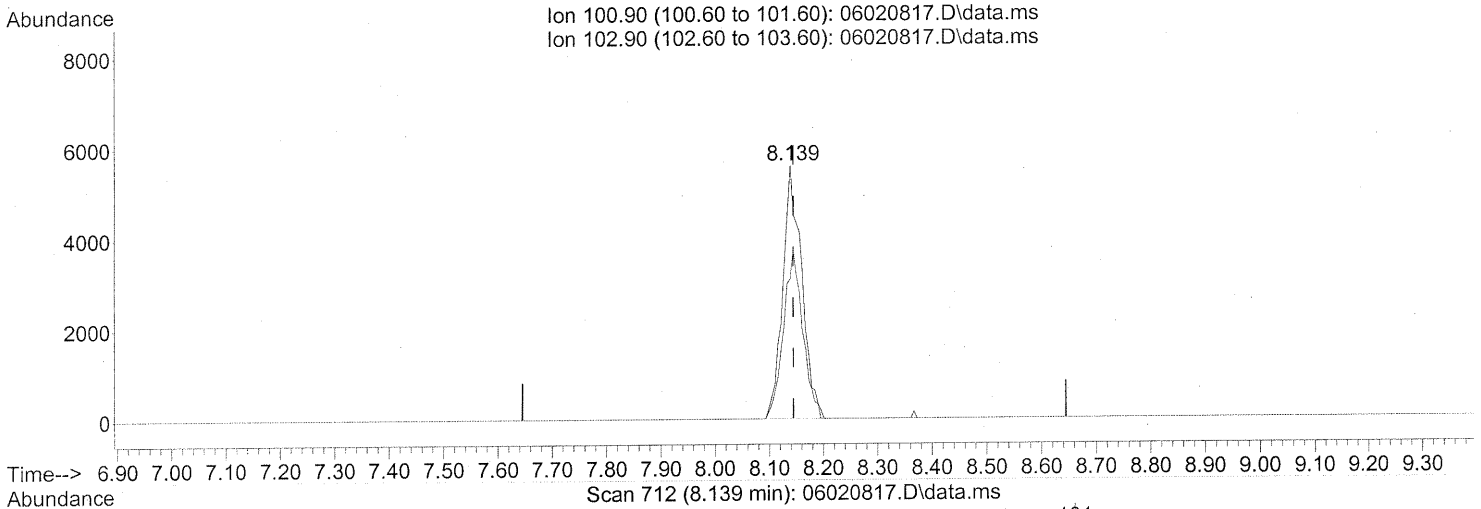
response 75939

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	340.59#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 0.32ng

response 13665

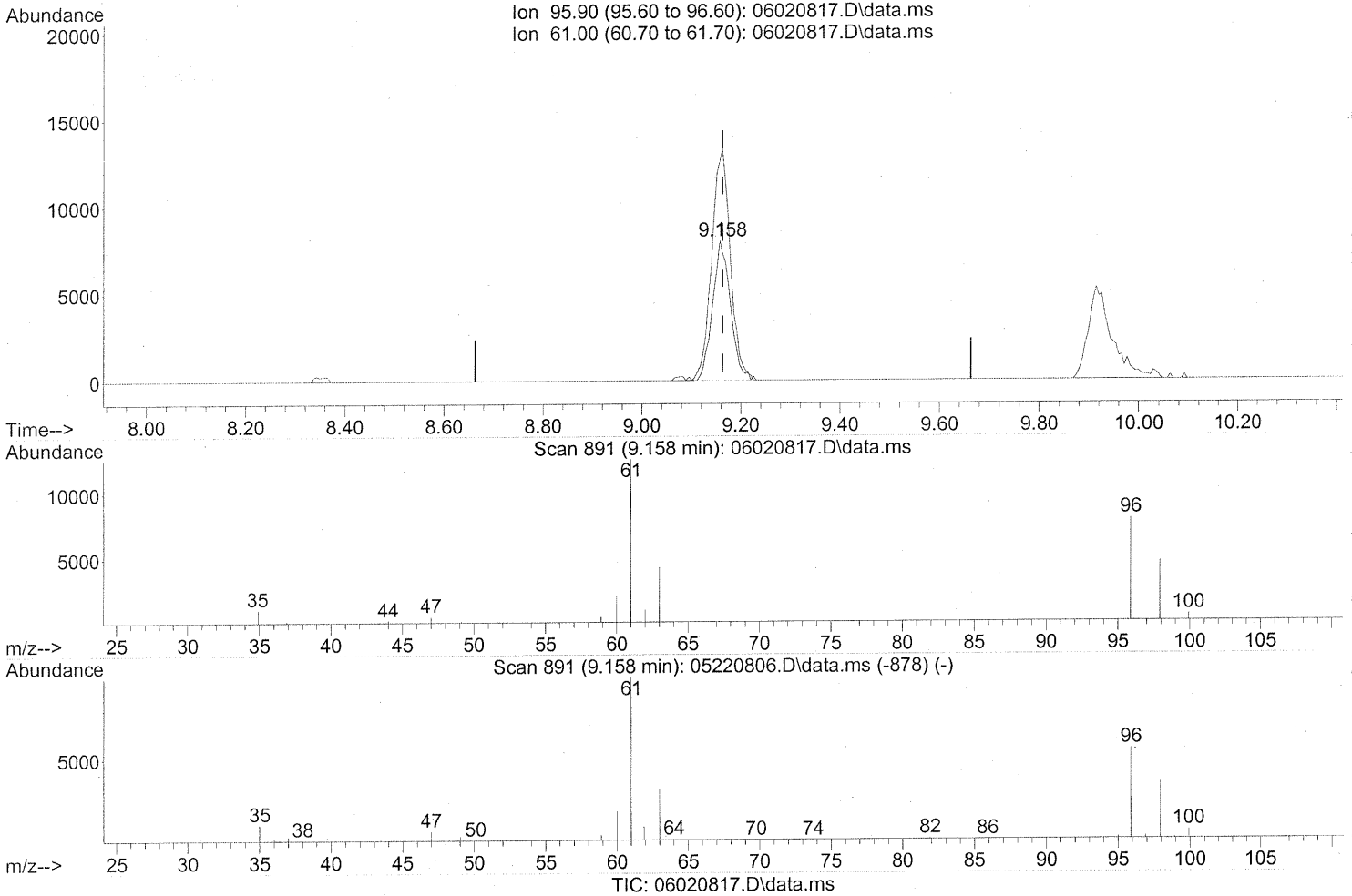
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	67.65
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 1.06ng

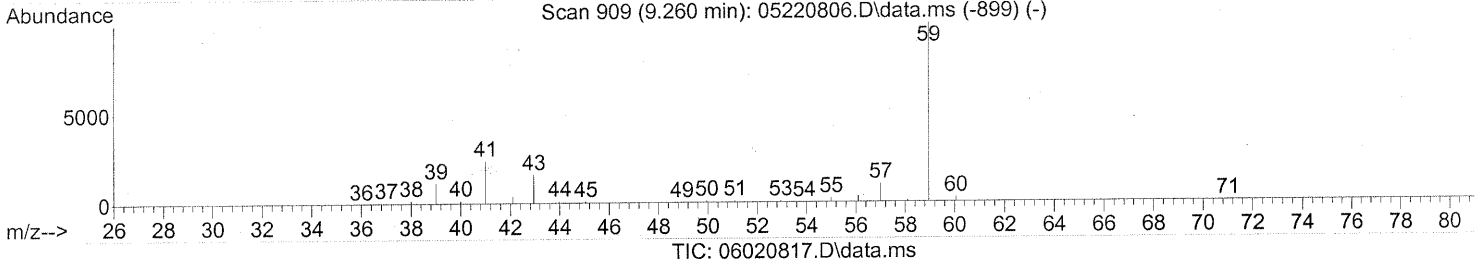
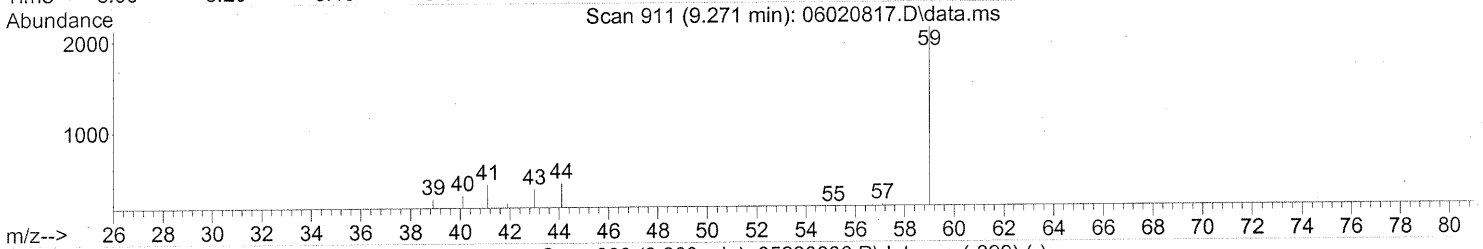
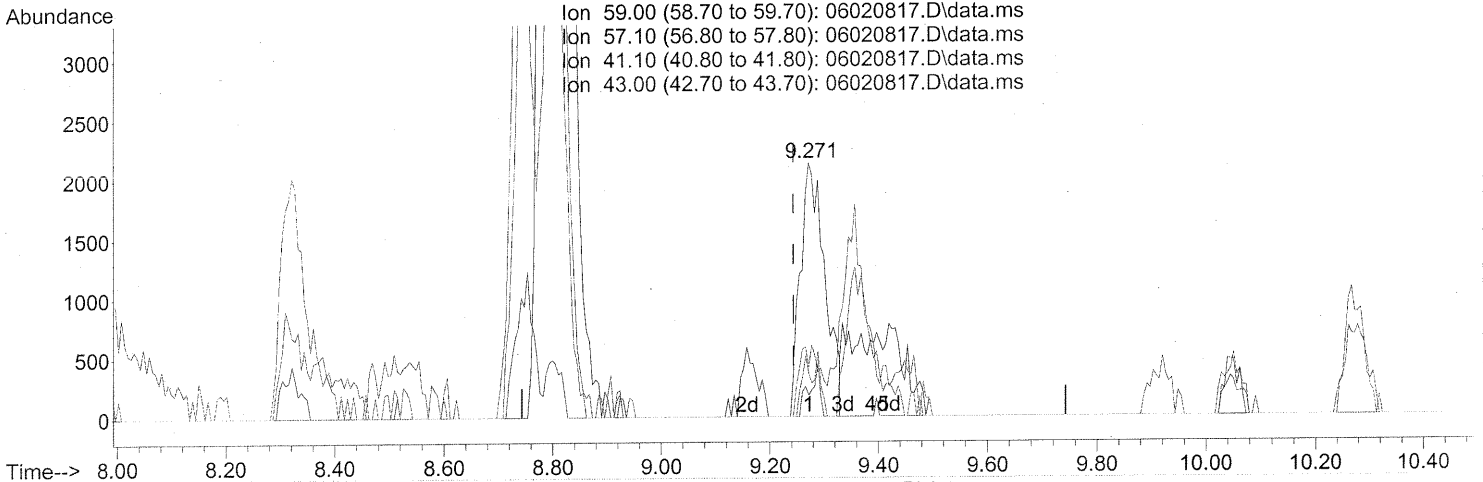
response 20095

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	172.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.028) 0.13ng  
response 6723

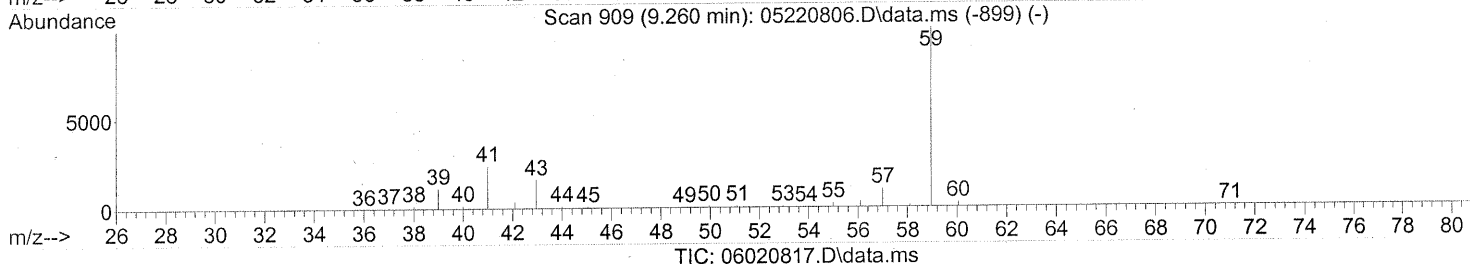
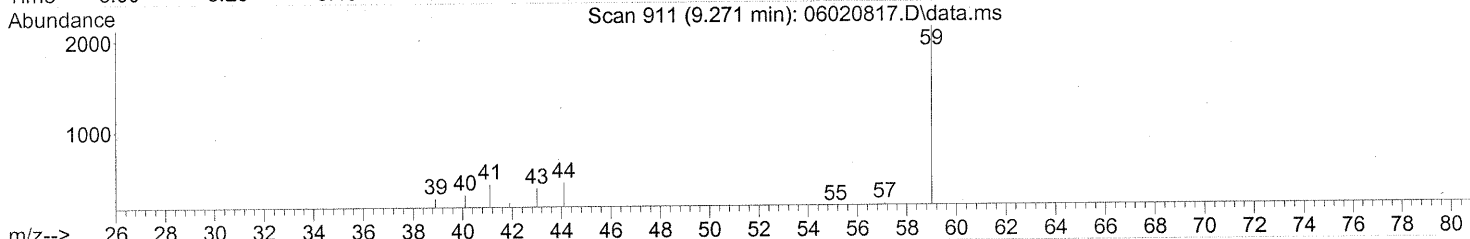
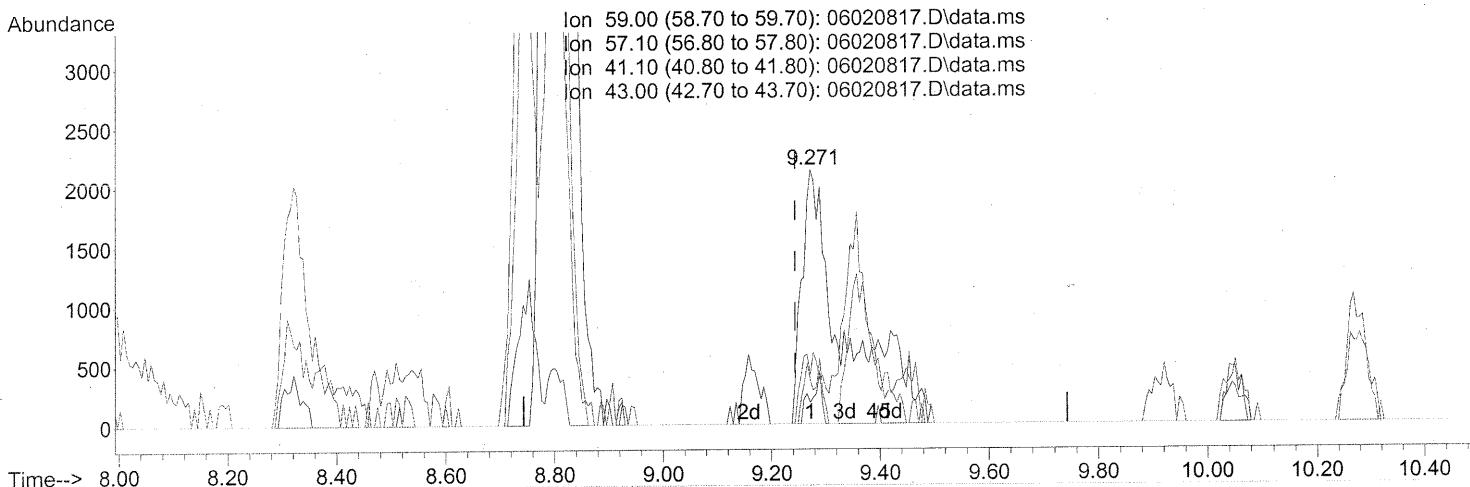
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.23
41.10	20.10	23.69
43.00	12.30	8.55

SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 03 10:23:18 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.028) 0.23ng m  
response 11749

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	1.85
41.10	20.10	13.56
43.00	12.30	4.89

INT. THE WHOLE PEAK

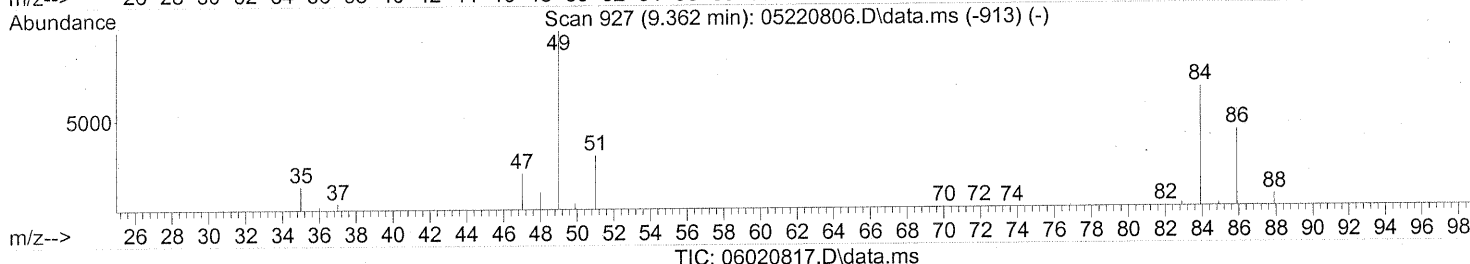
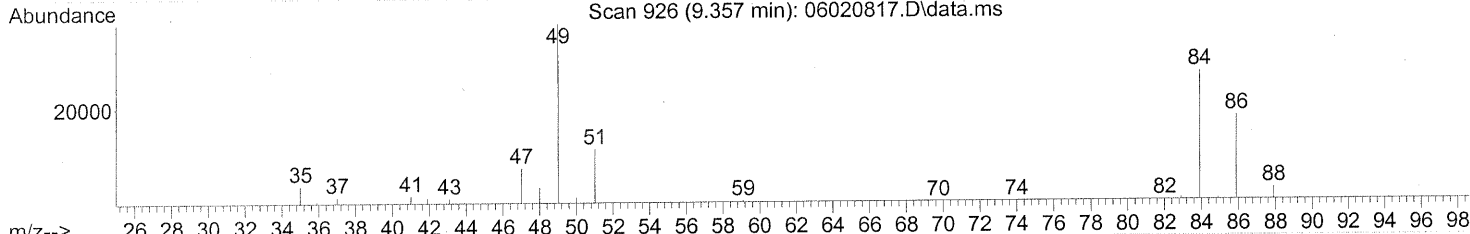
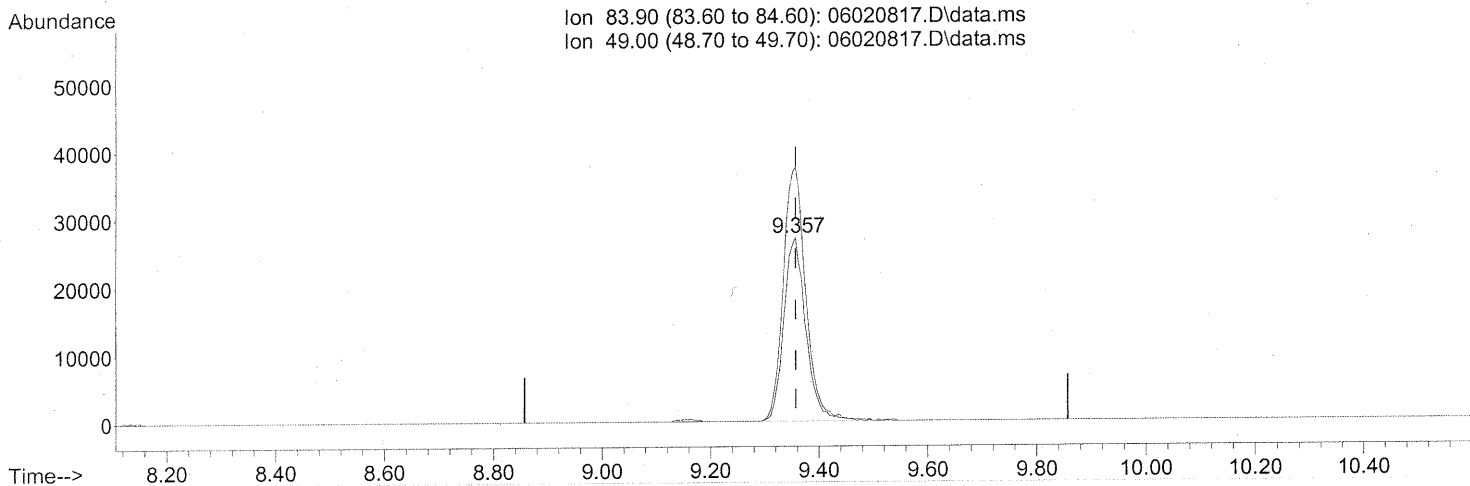
R 06/06/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 3.69ng

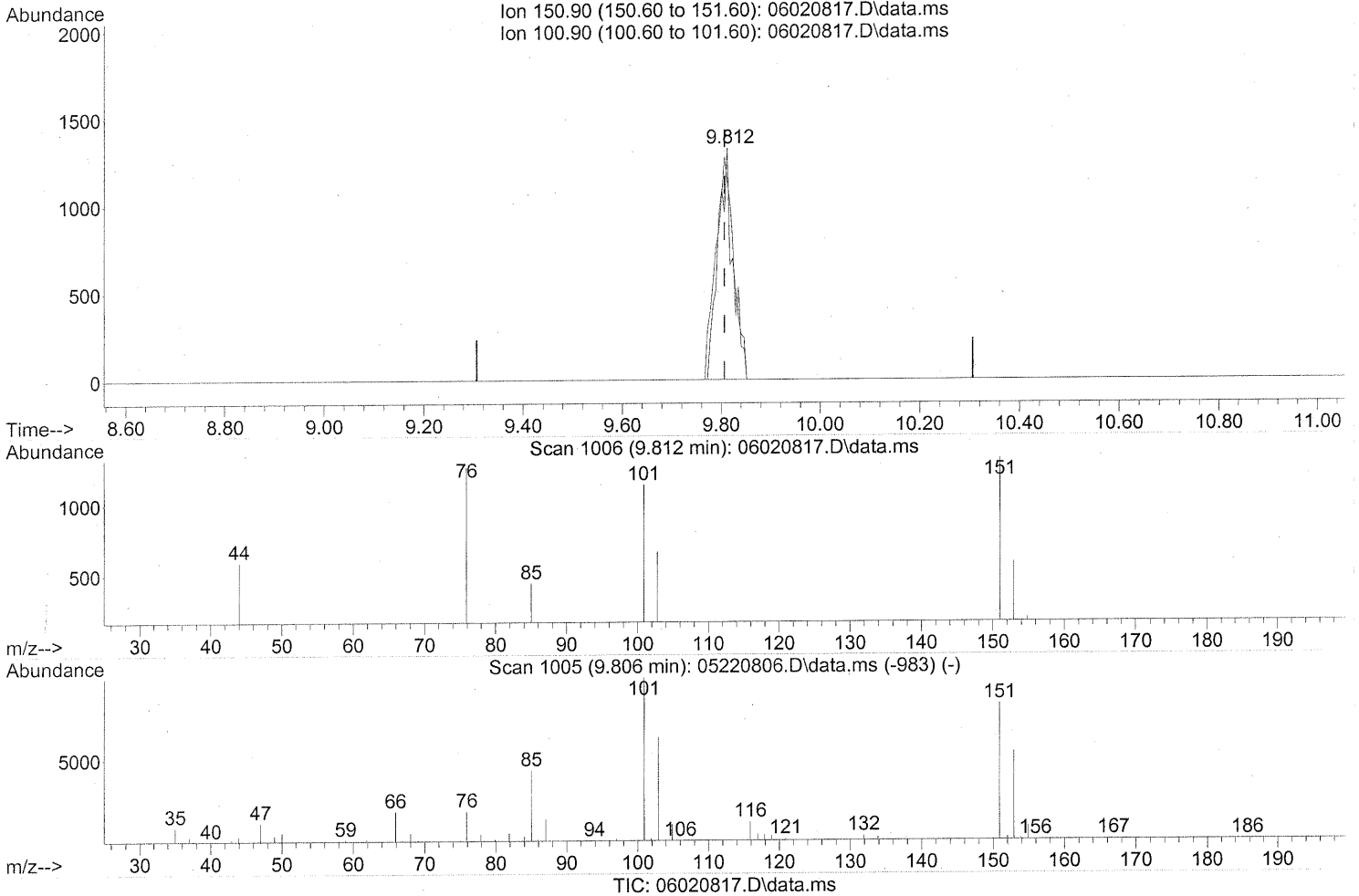
response 76541

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	141.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.14ng

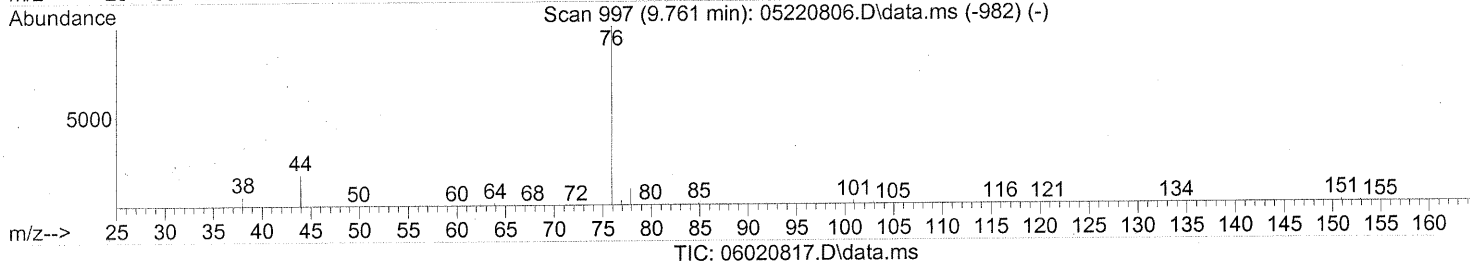
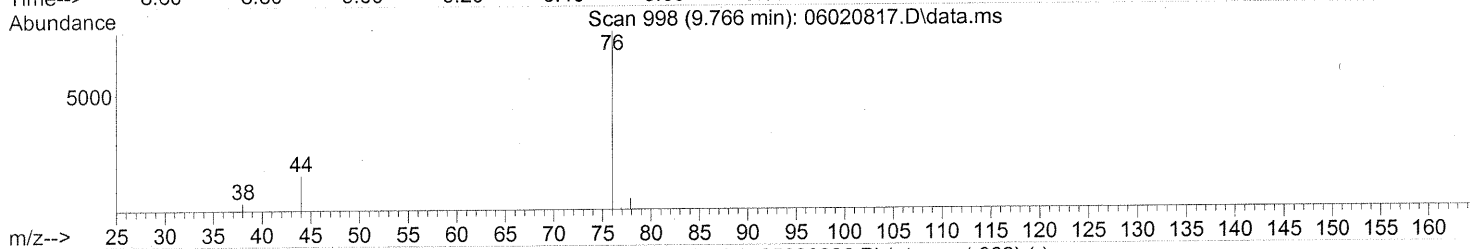
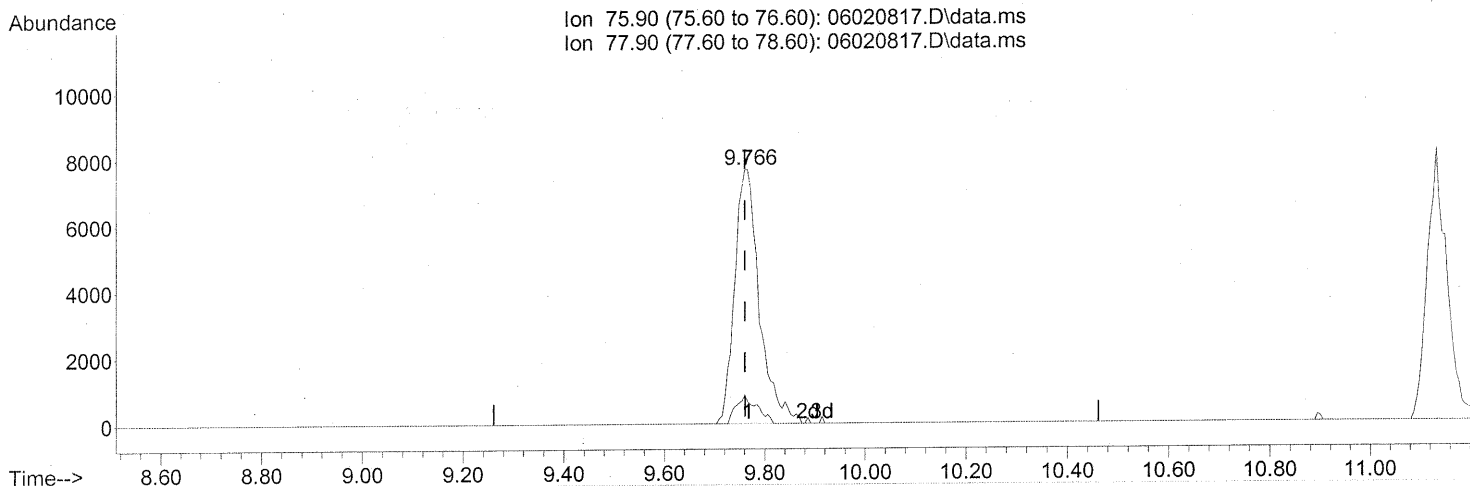
response 2811

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	114.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.766min (+0.006) 0.33ng

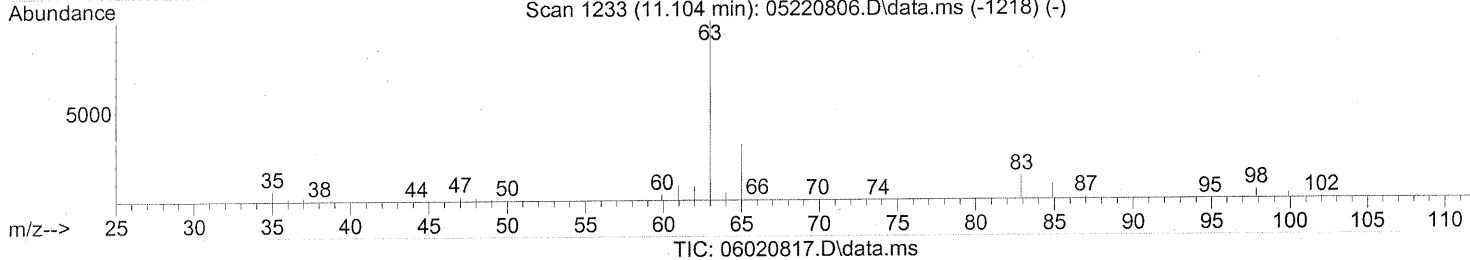
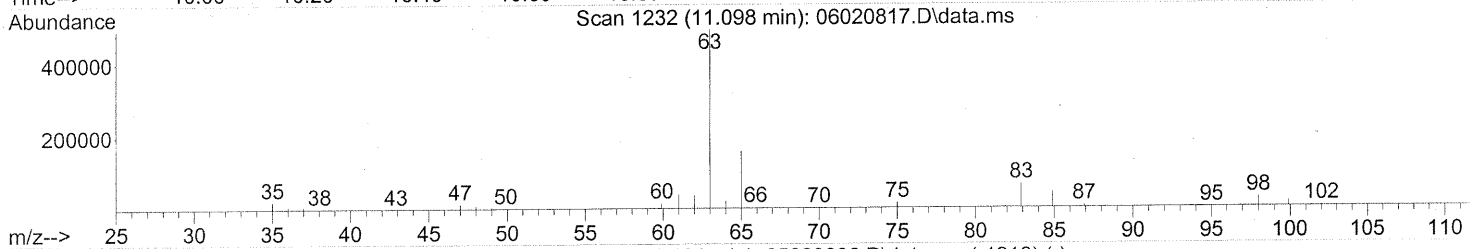
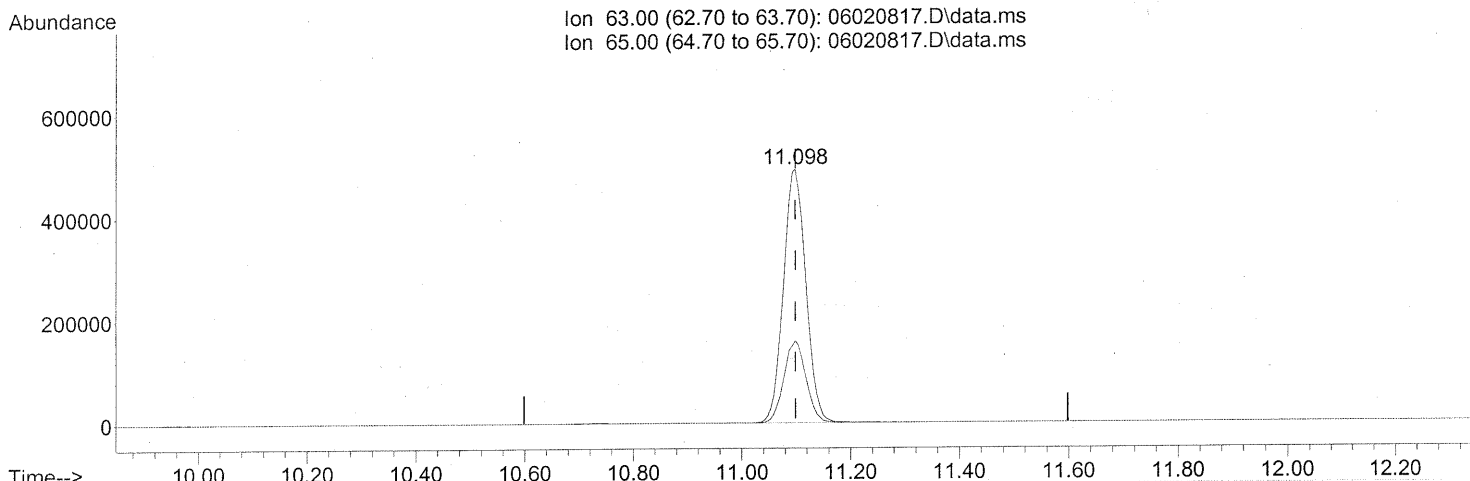
response 26006

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



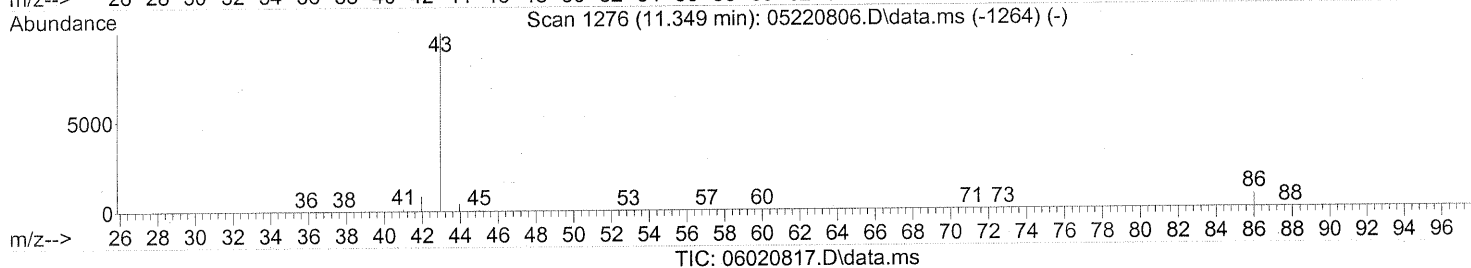
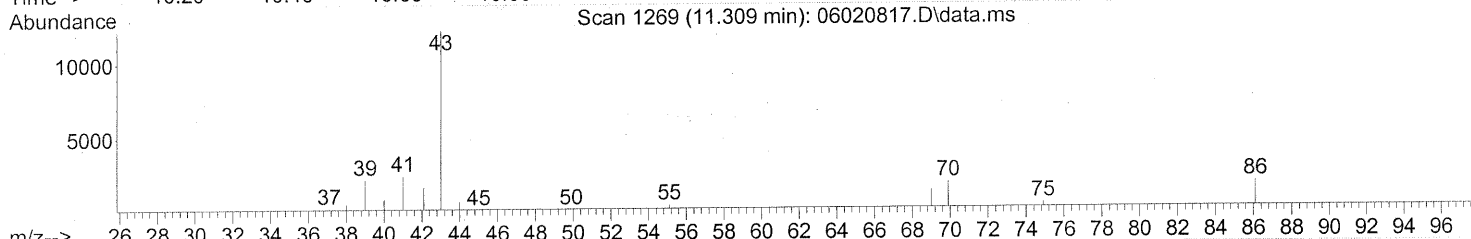
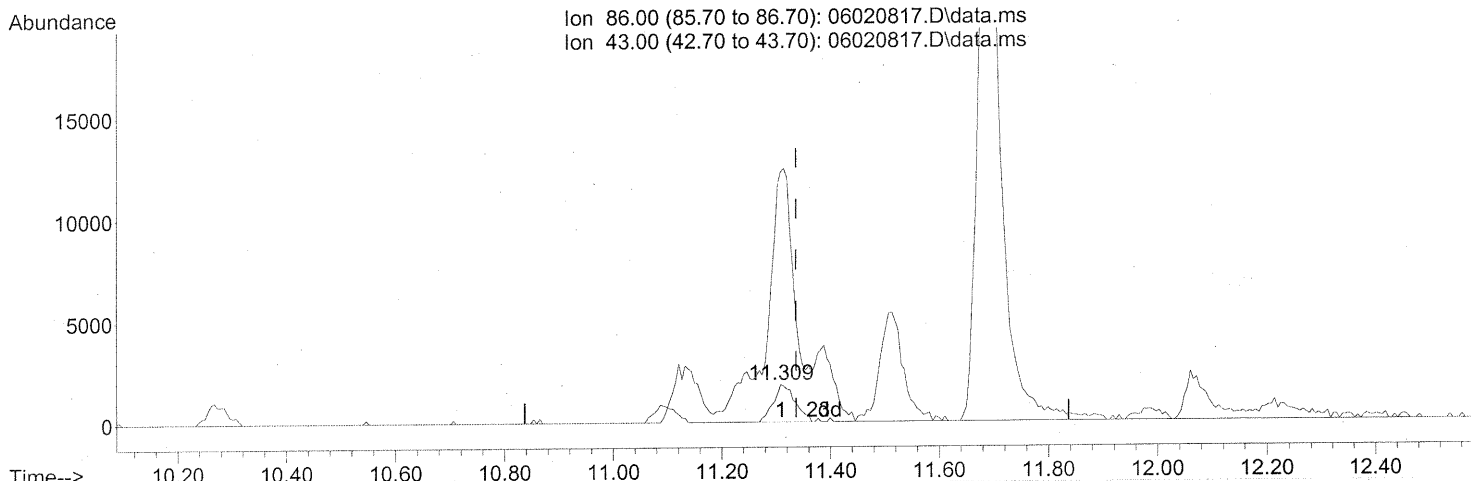
(24) 1,1-Dichloroethane (T)  
 11.098min (-0.000) 39.34ng  
 response 1414593

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.309min (-0.028) 1.48ng

response 5070

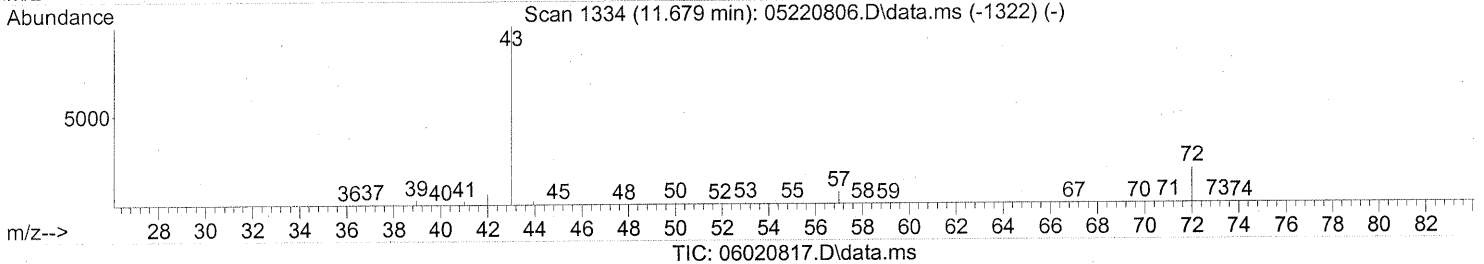
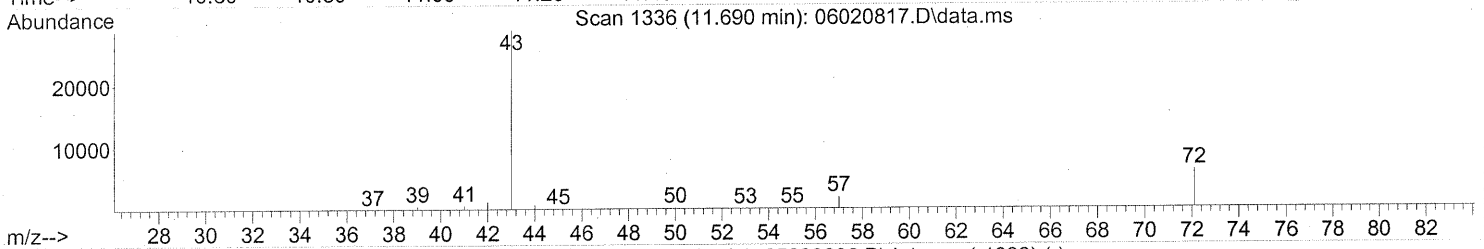
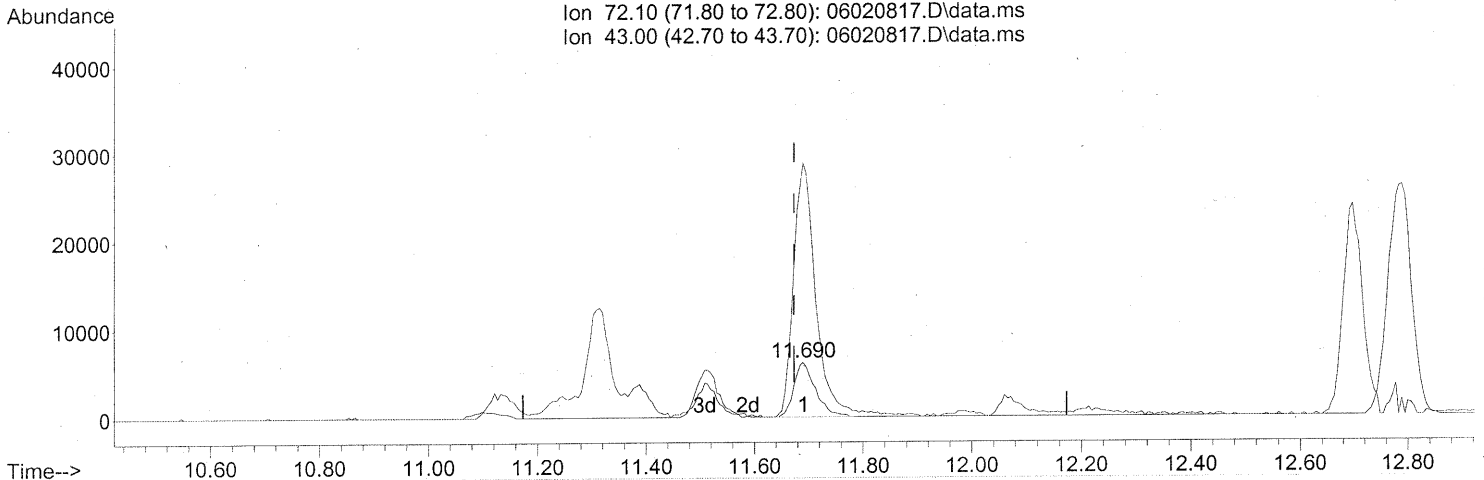
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	724.06#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration

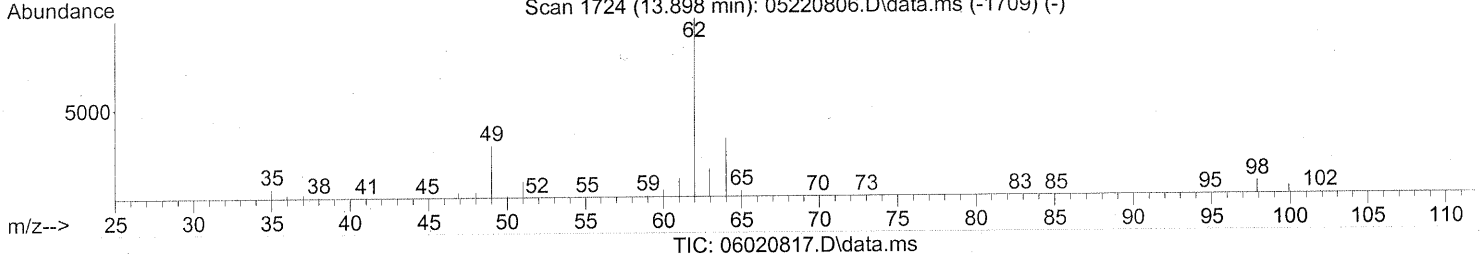
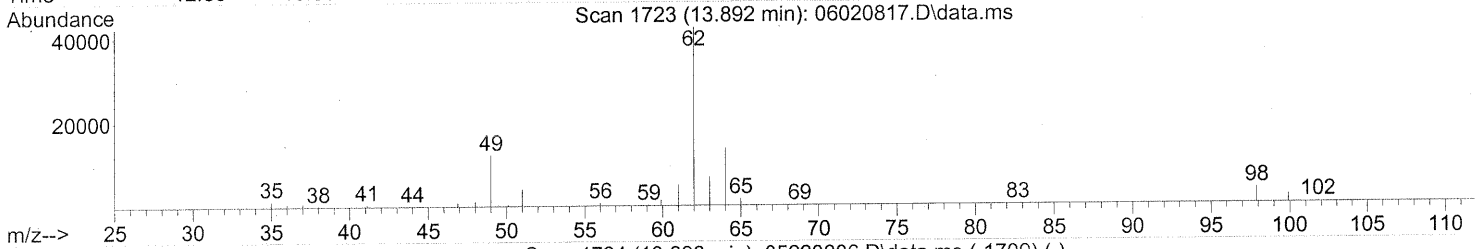
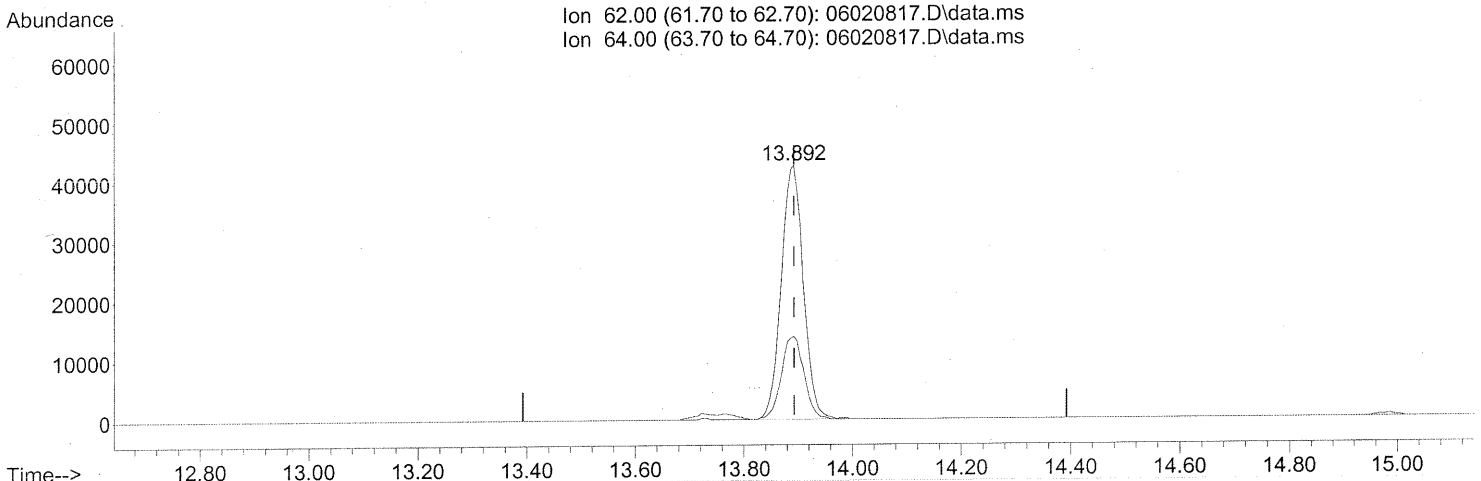


(27) 2-Butanone (T)  
11.690min (+0.017) 1.26ng  
response 17031  
Ion Exp% Act%  
72.10 100 100  
43.00 506.80 487.22  
0.00 0.00 0.00  
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.892min (-0.000) 3.96ng

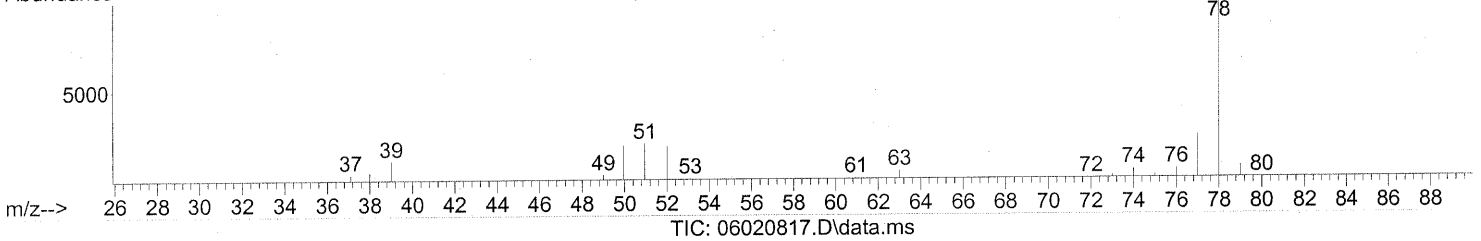
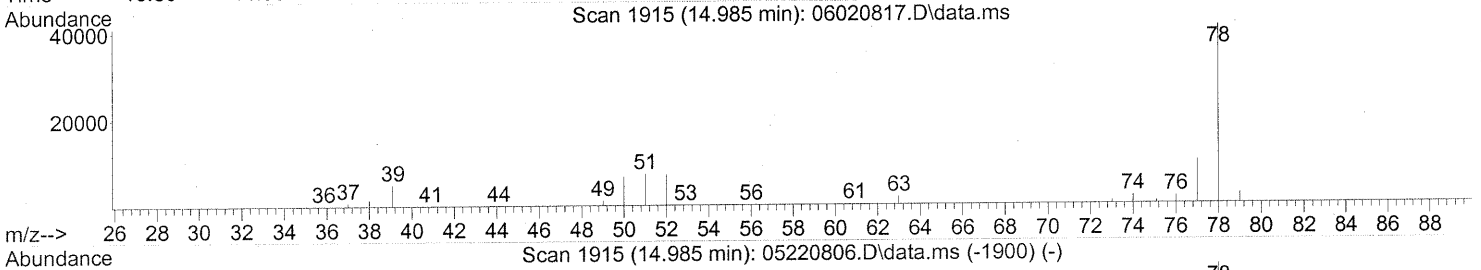
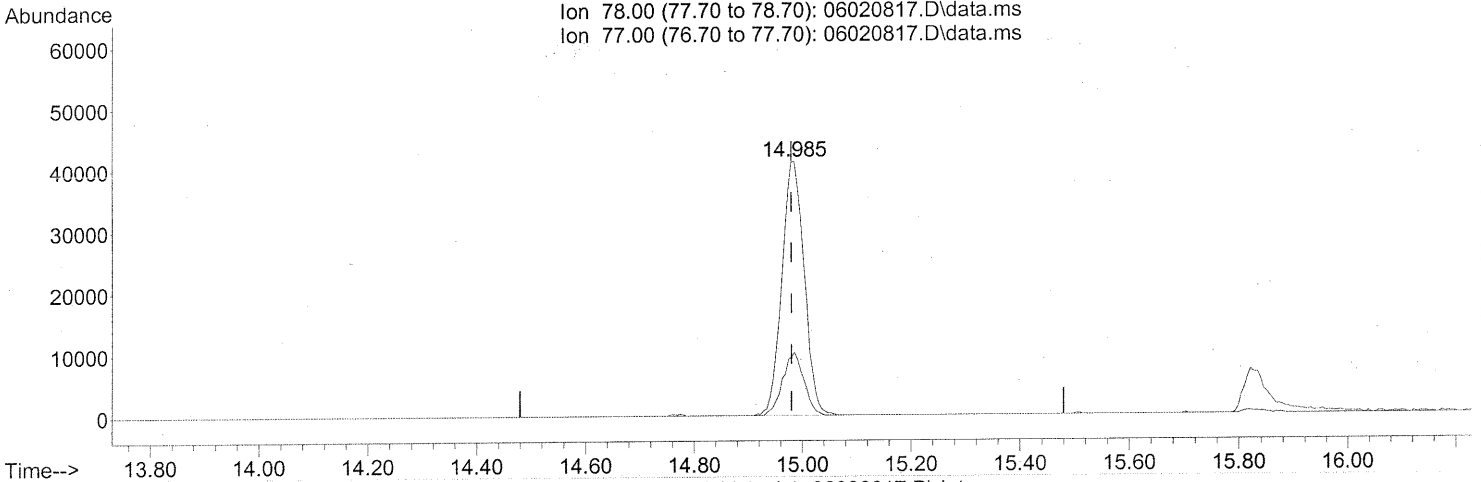
response 120114

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	33.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 1.51ng

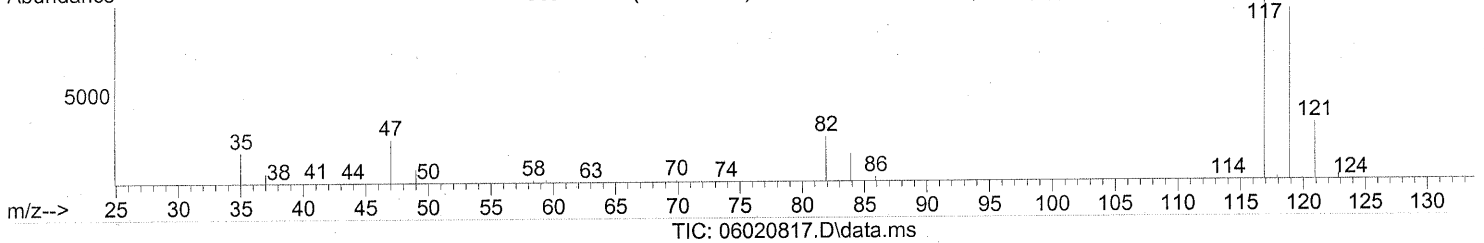
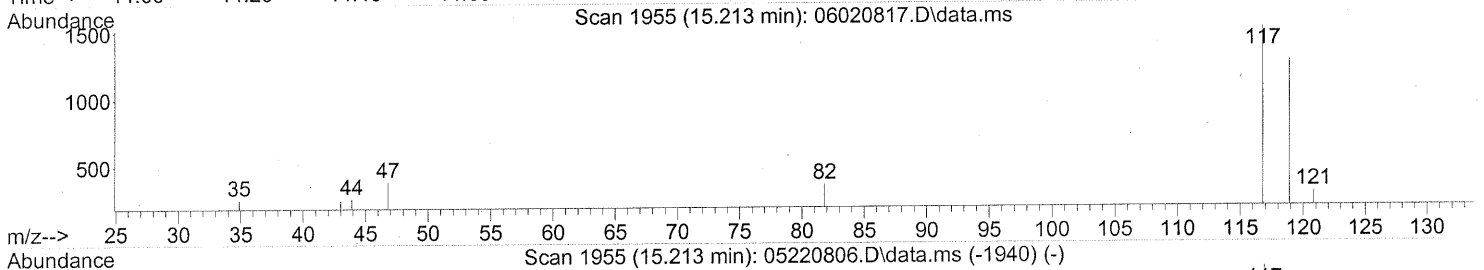
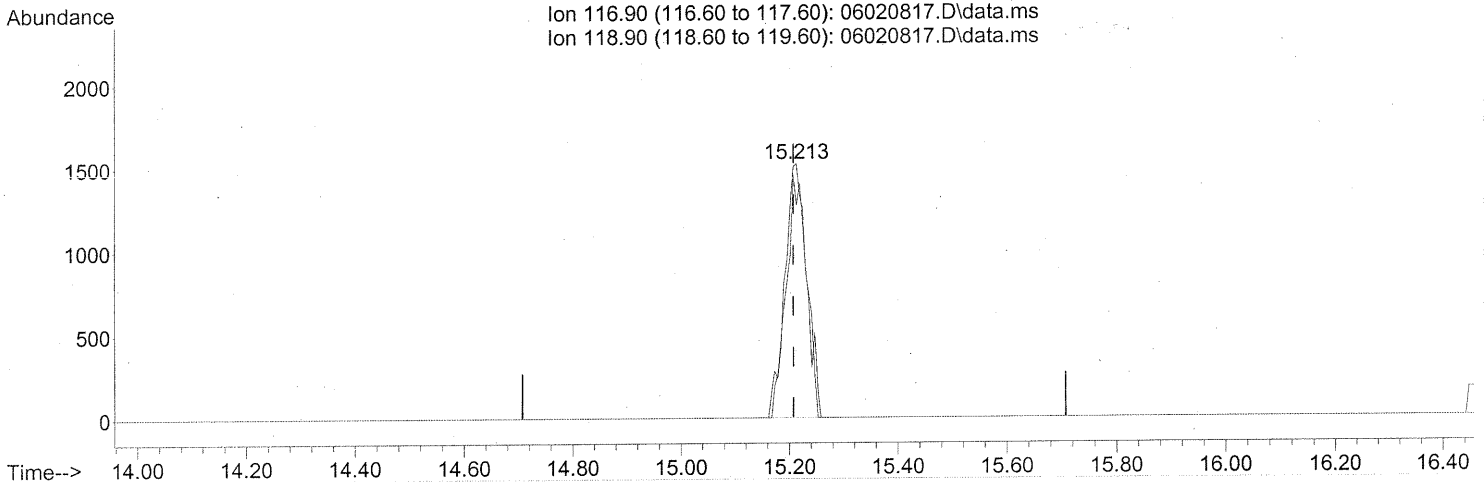
response 118759

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.14ng

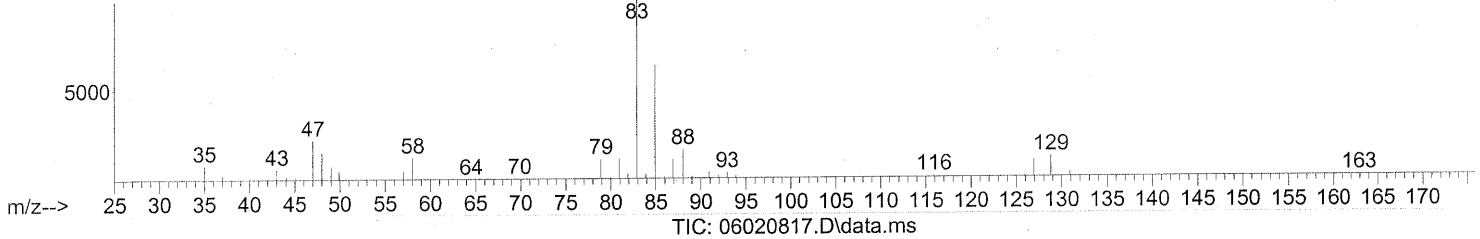
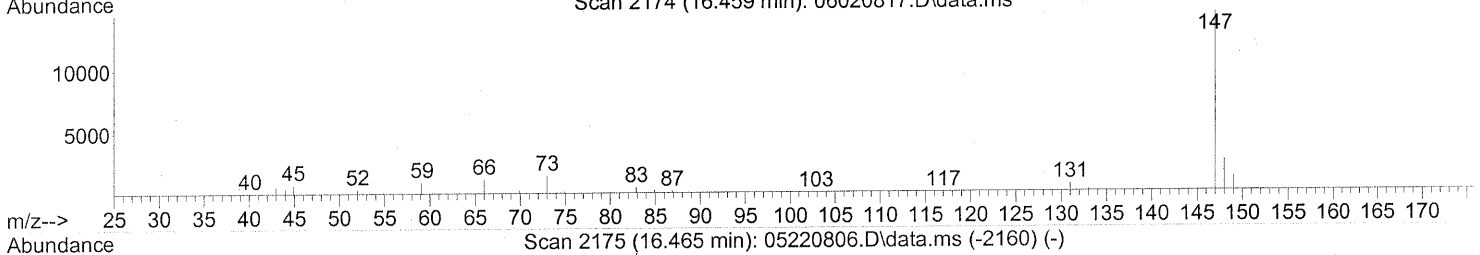
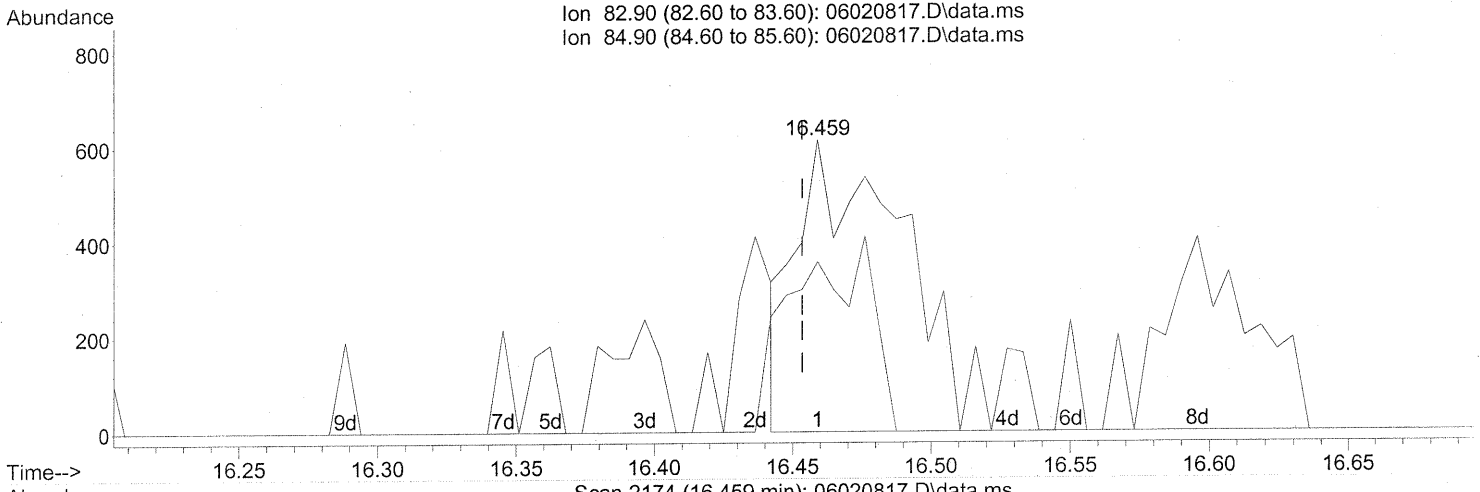
response 4210

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	90.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.06ng

response 1646

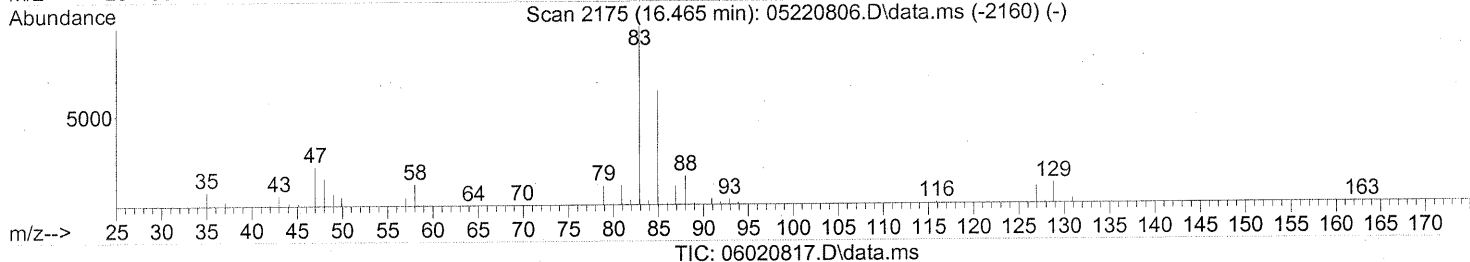
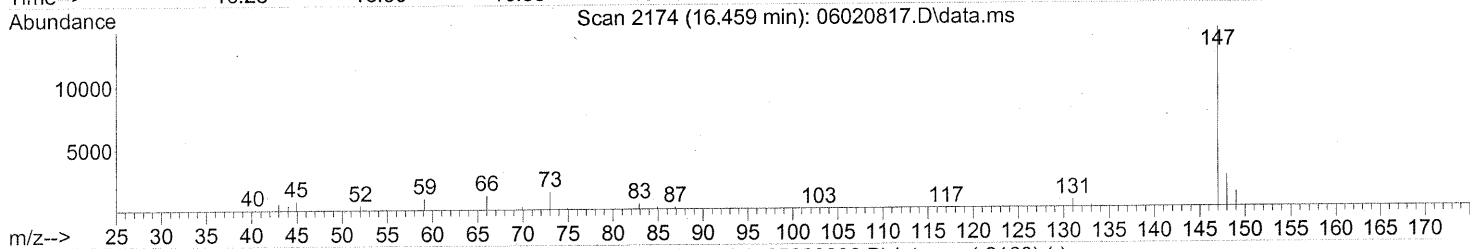
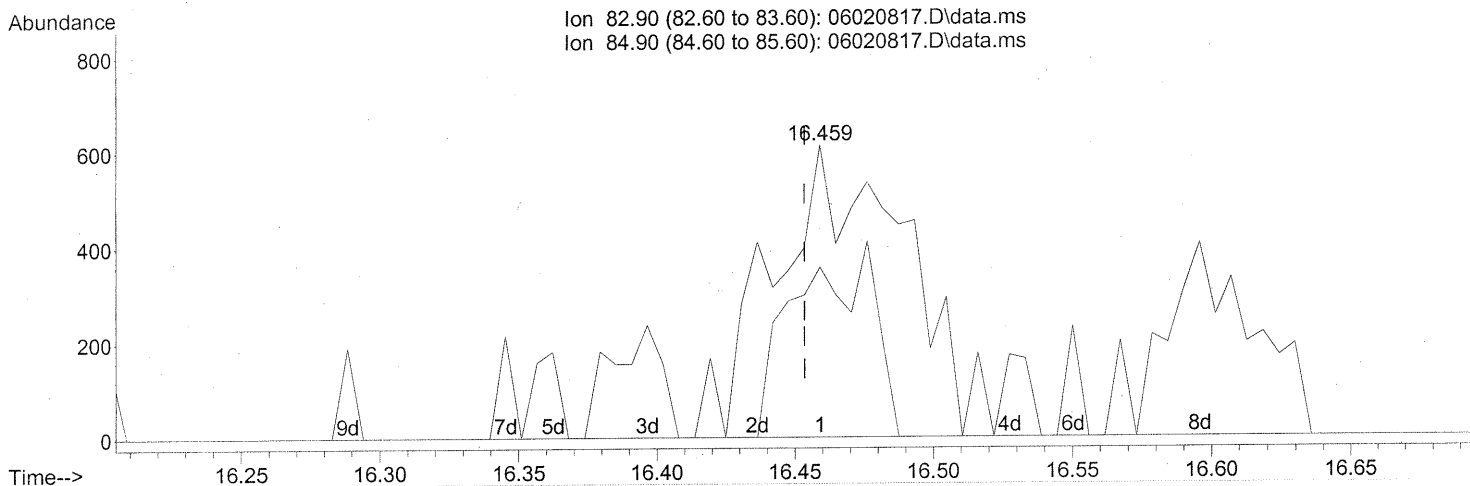
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	48.78
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.07ng m

response 1929

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	41.63#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK,  
 BEFORE SUBTRACTION

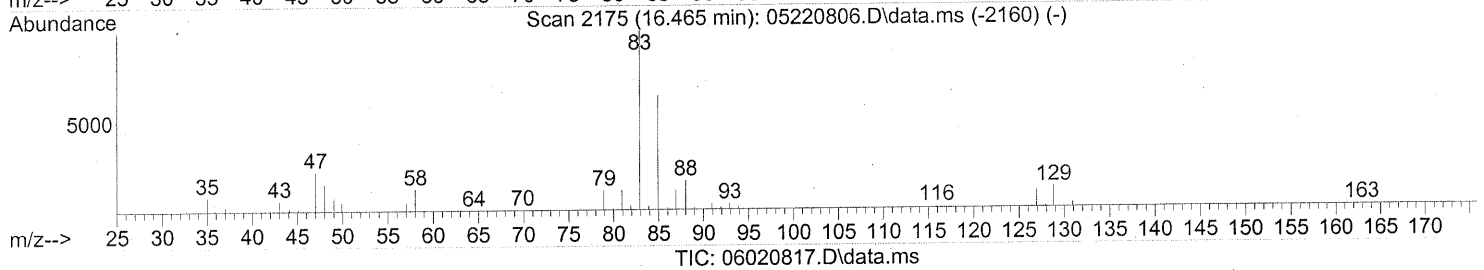
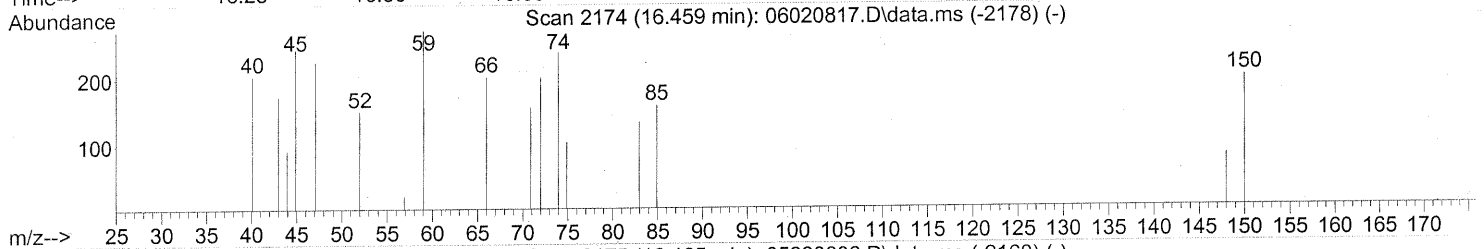
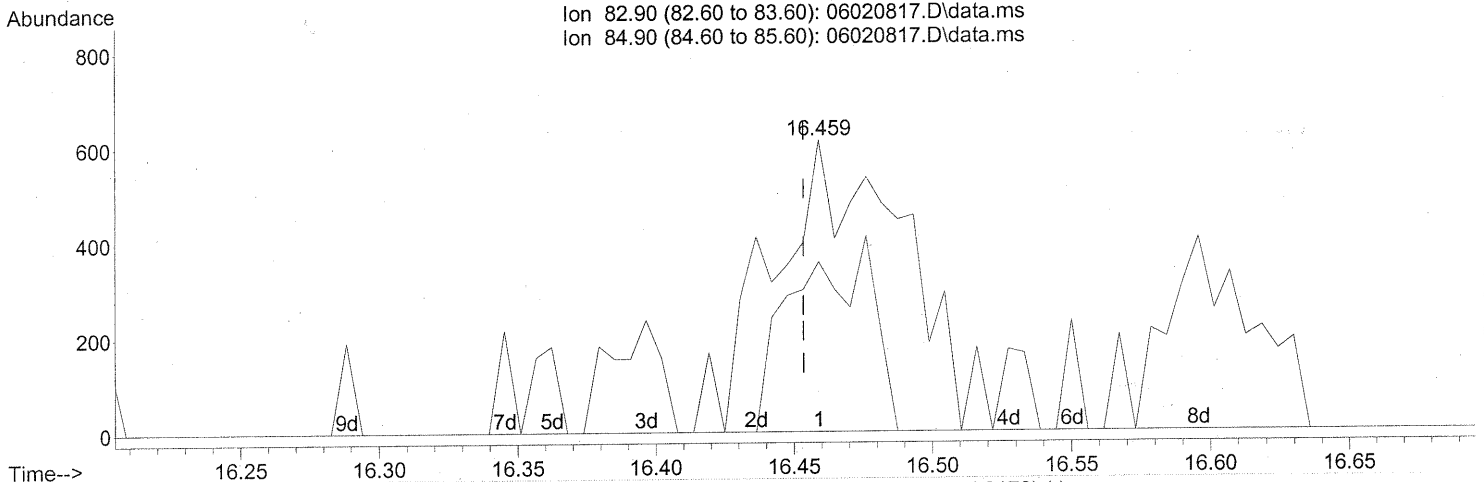
6/06/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:02:25 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.07ng m

response 1929

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	41.63#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

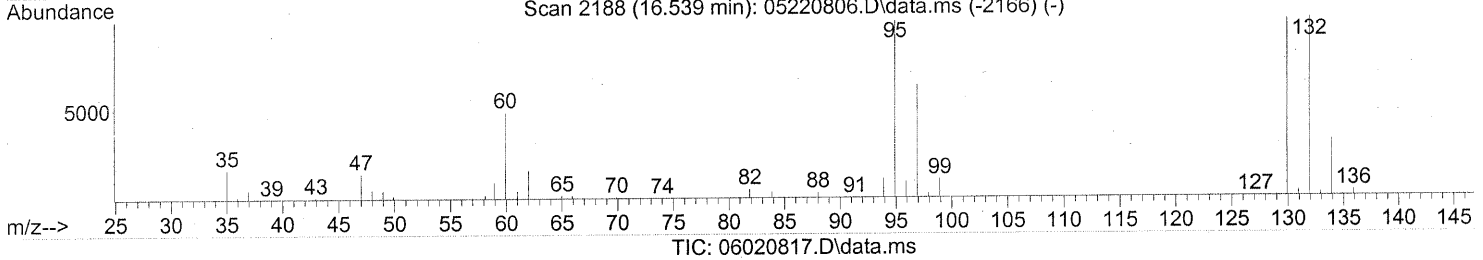
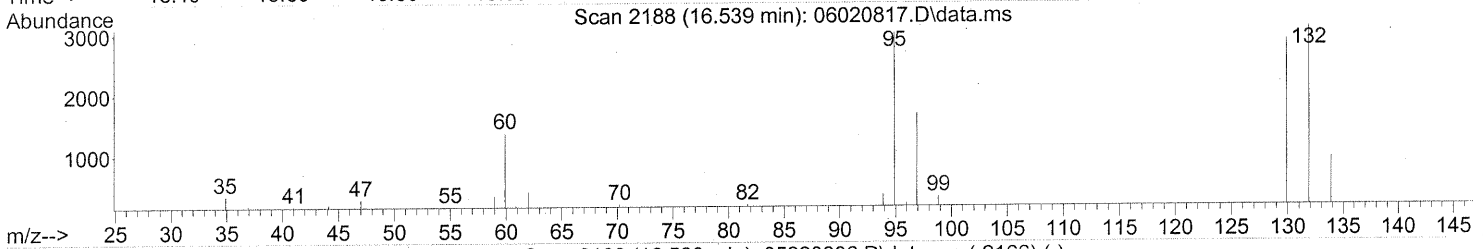
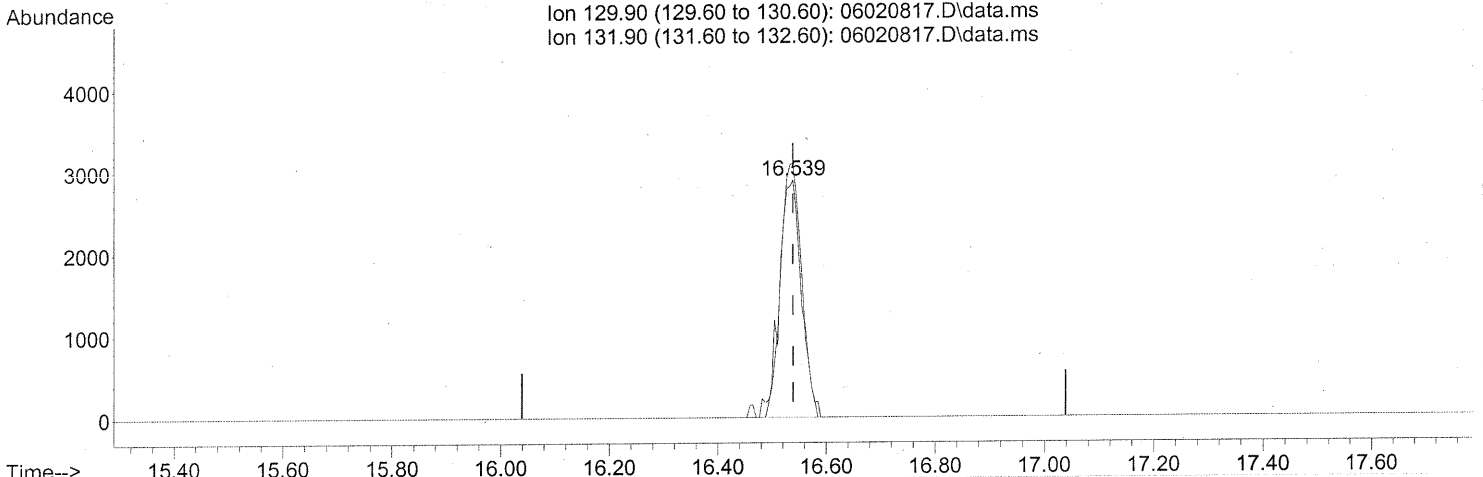
P06/06/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.539min (-0.000) 0.33ng

response 8045

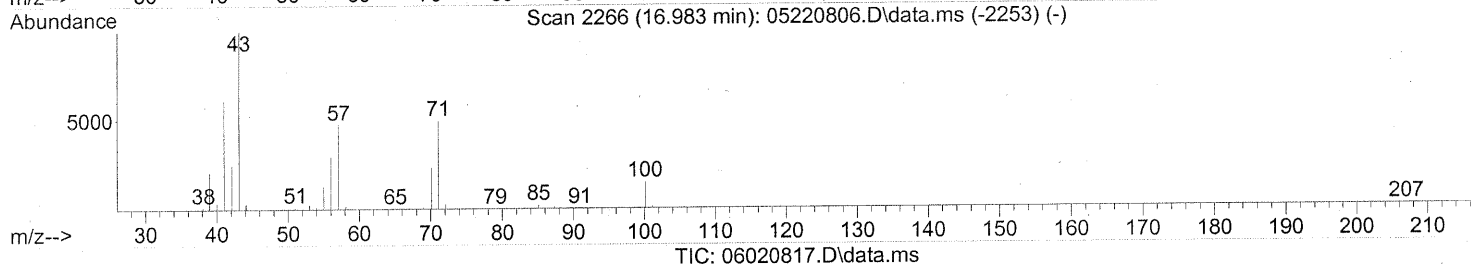
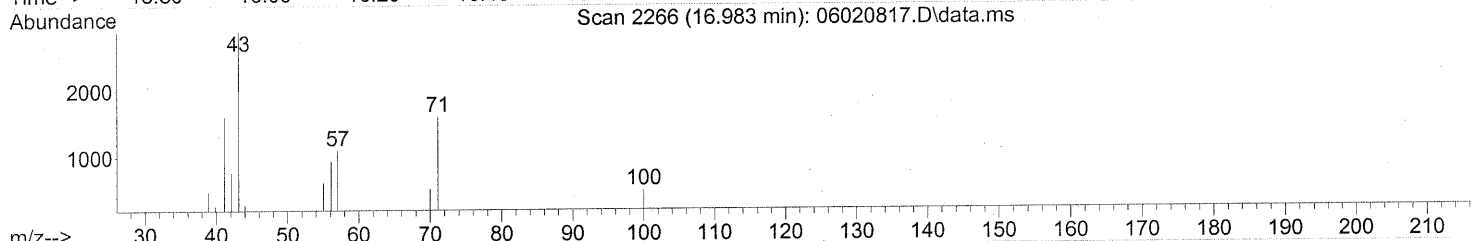
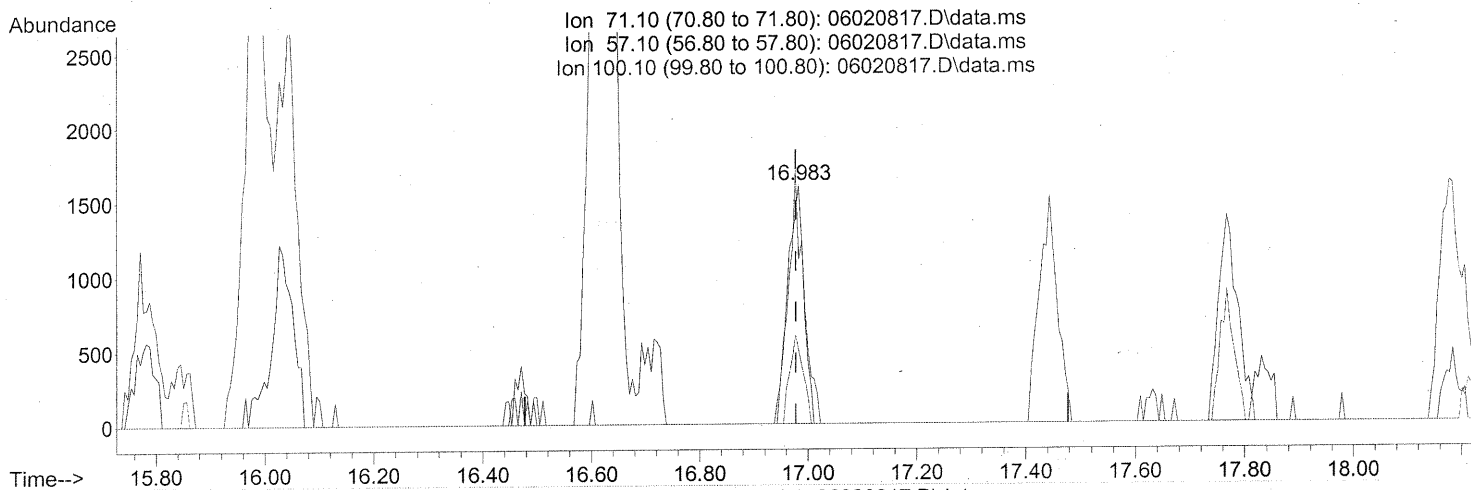
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	106.18
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



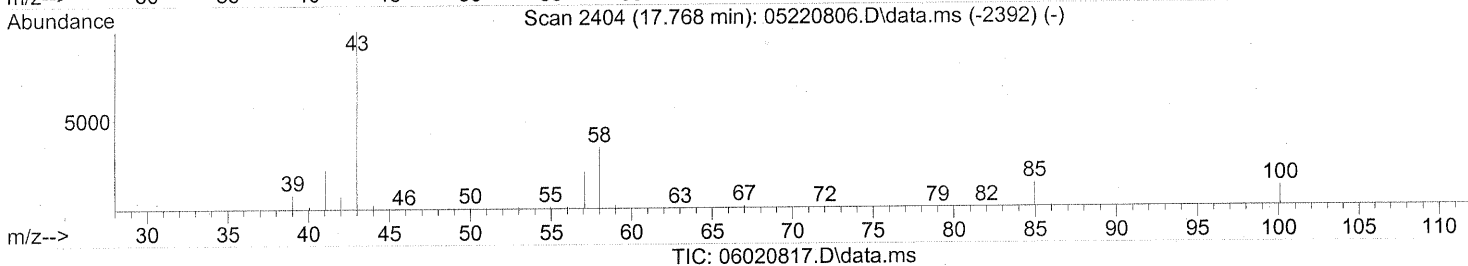
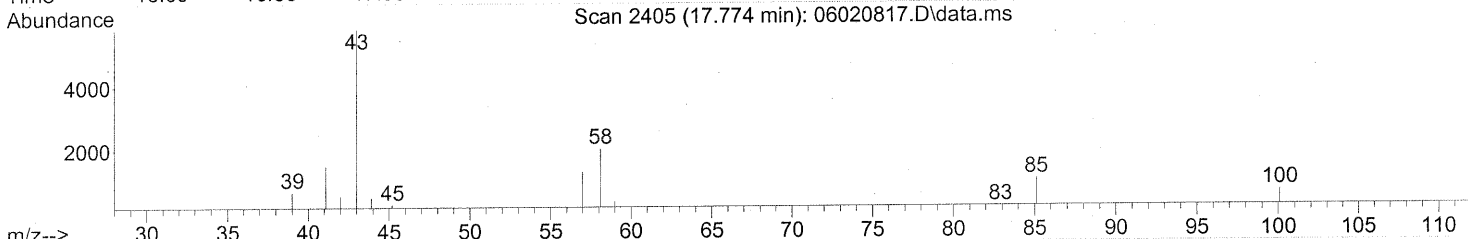
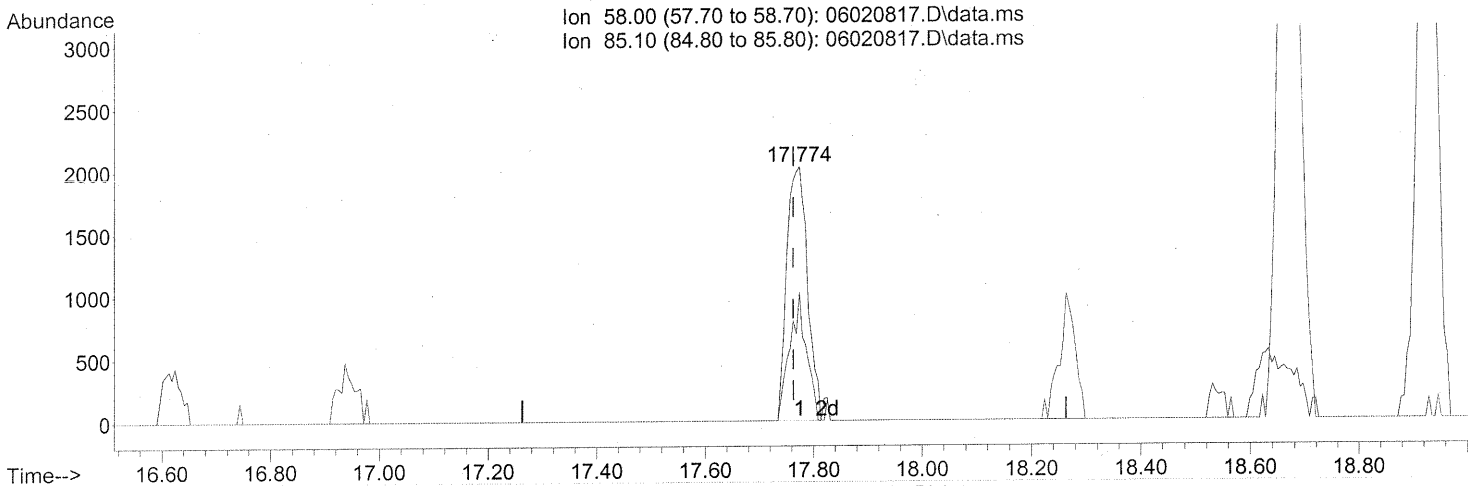
(51) n-Heptane (T)  
16.983min (+0.006) 0.16ng  
response 3282

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	103.99#
100.10	30.10	31.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.774min (+0.011) 0.26ng

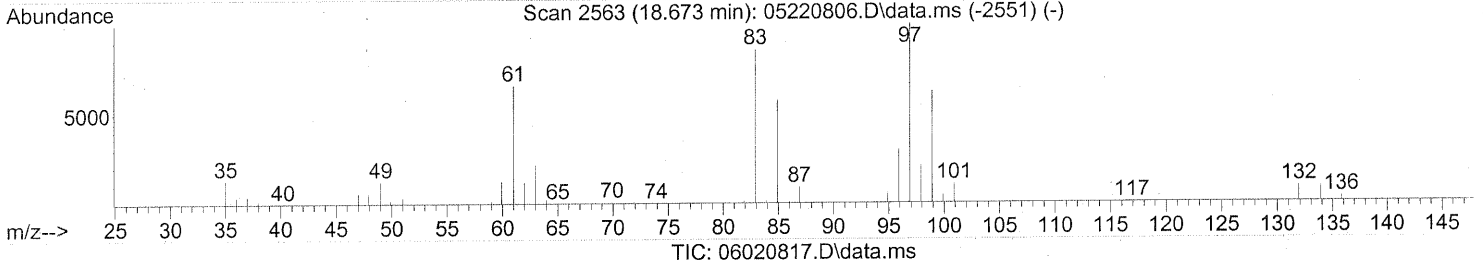
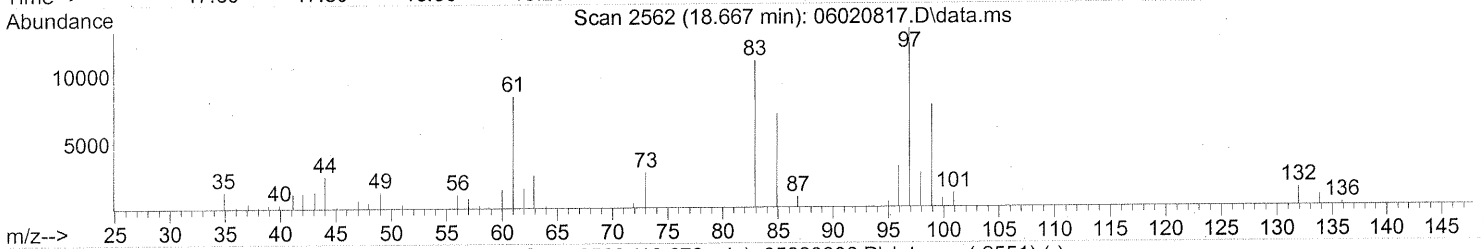
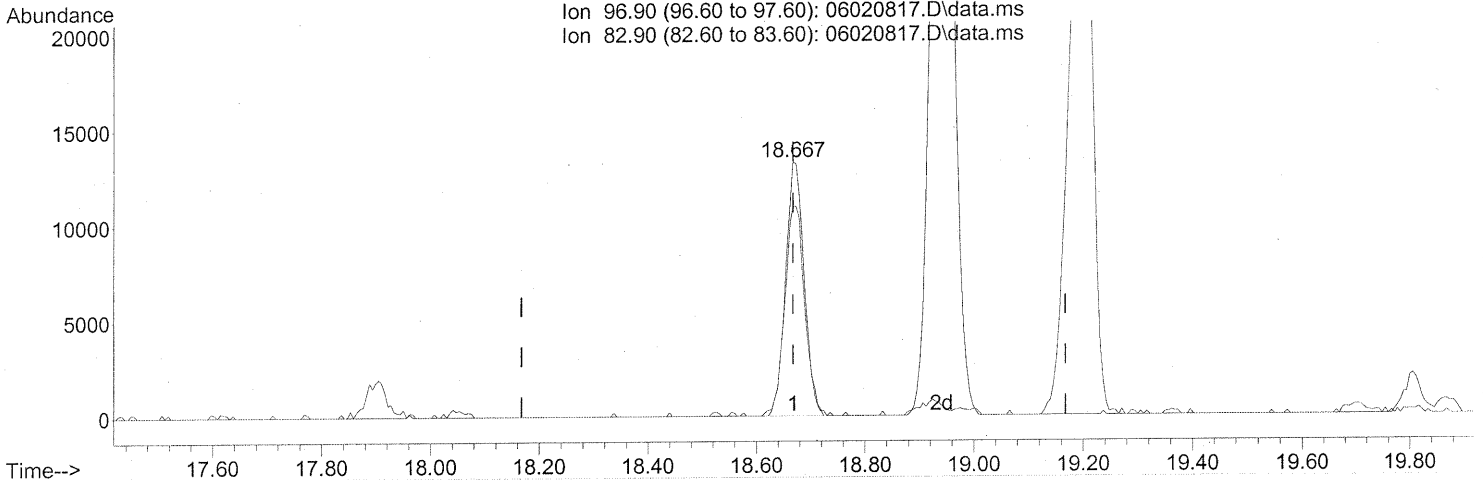
response 5349

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	40.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.667min (-0.000) 1.63ng

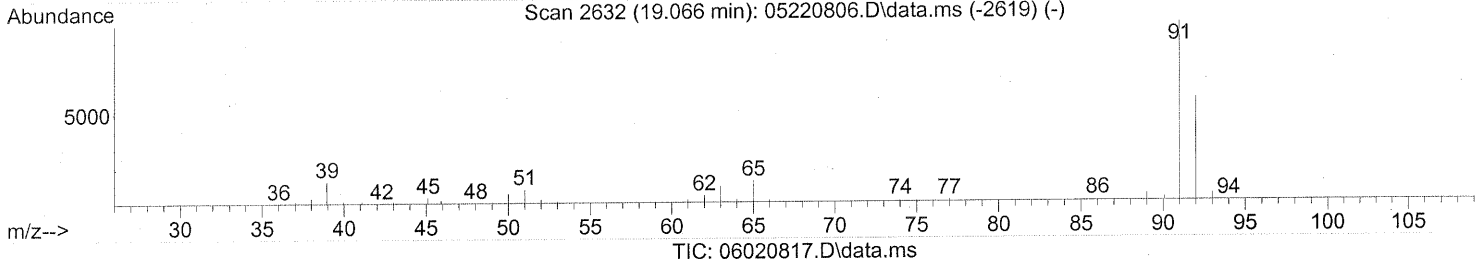
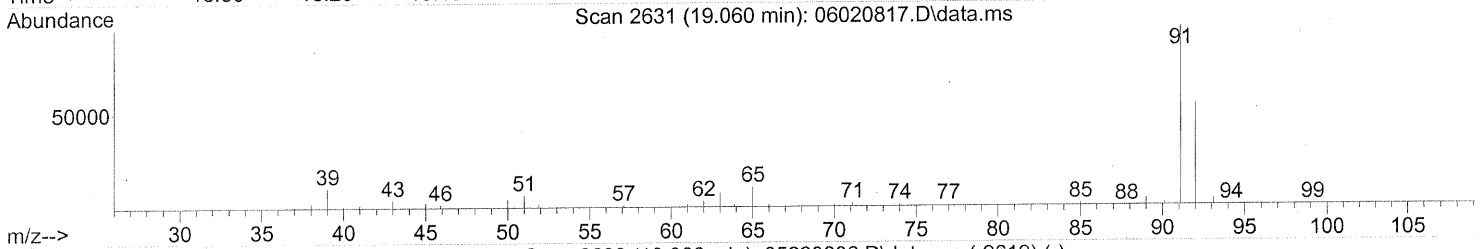
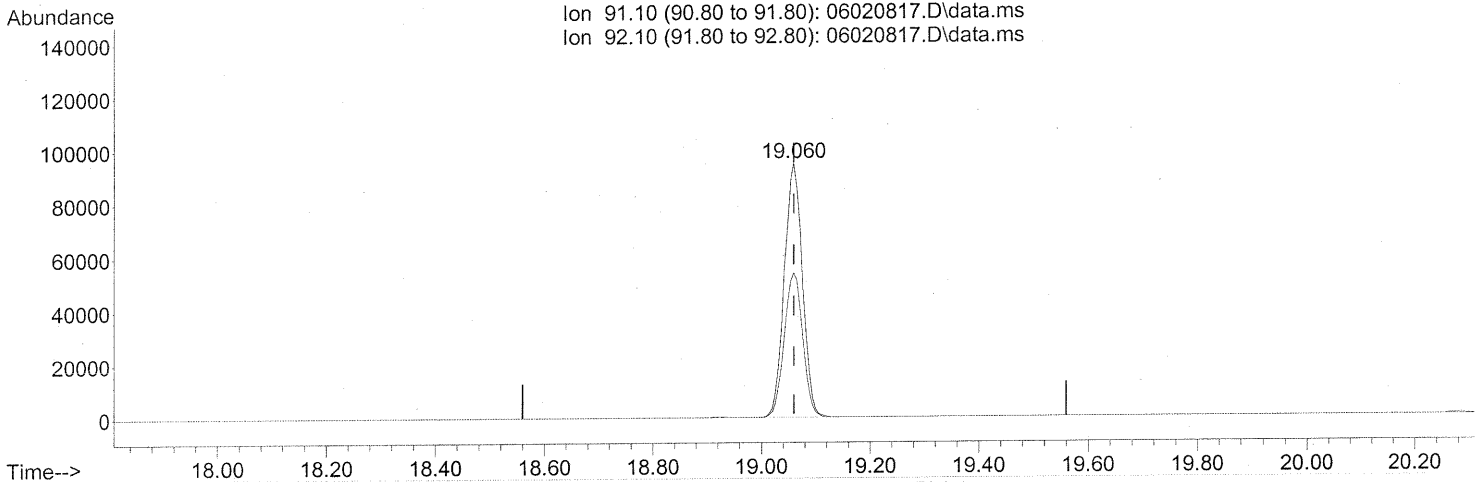
response 31703

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	88.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



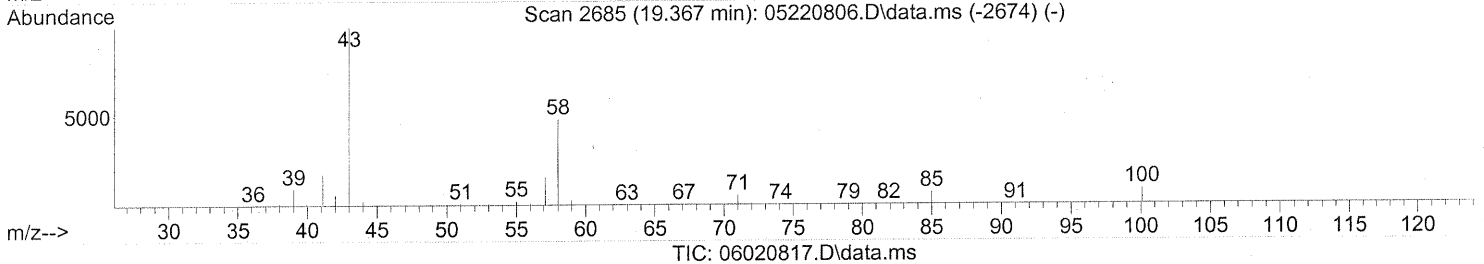
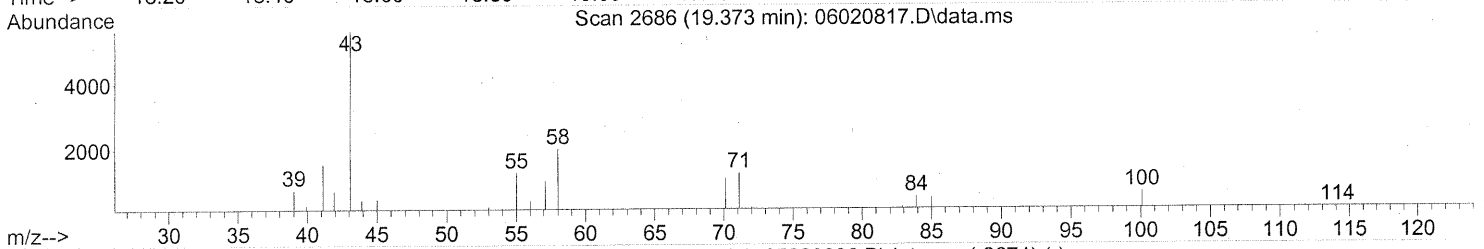
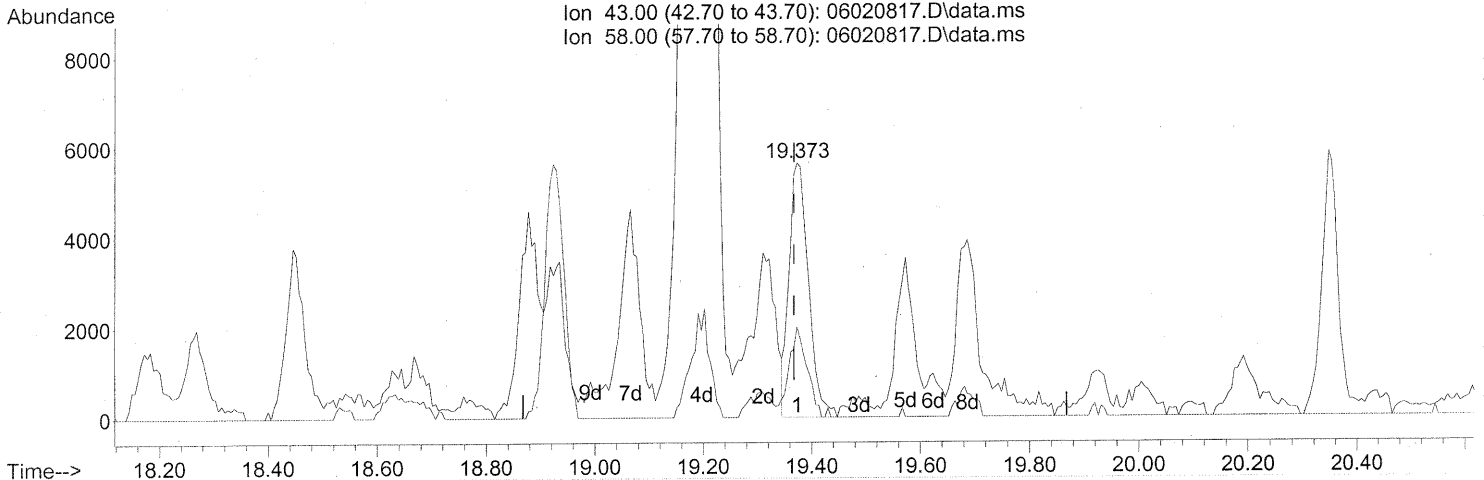
(58) Toluene (T)  
19.060min (-0.000) 2.56ng  
response 220187

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.373min (+0.006) 0.23ng

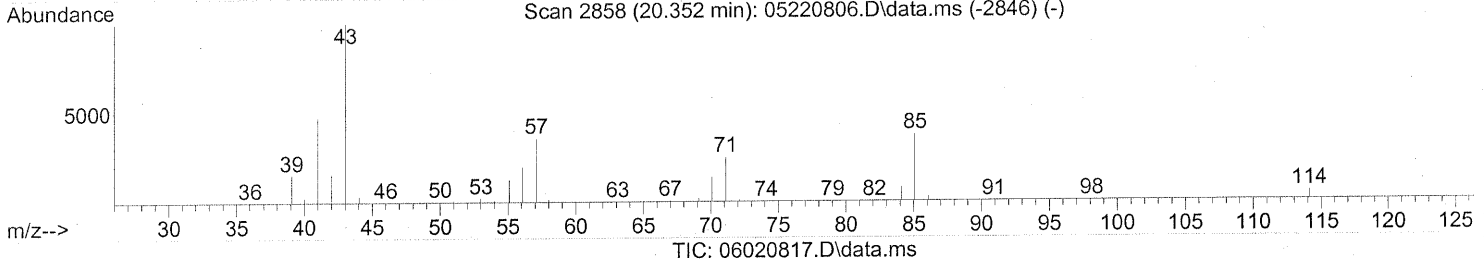
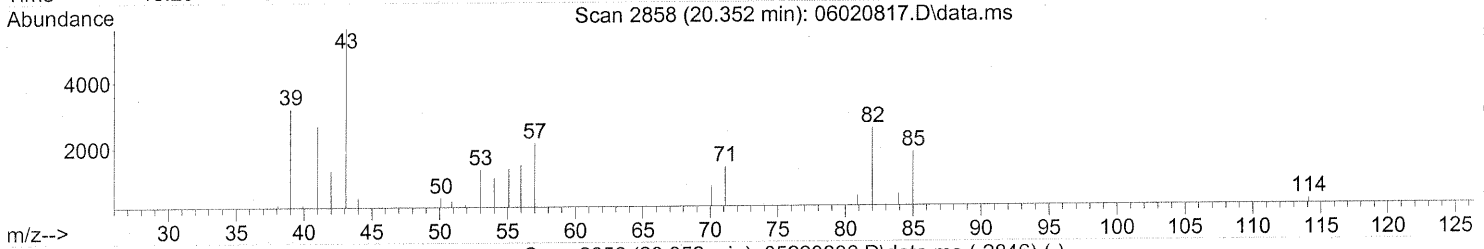
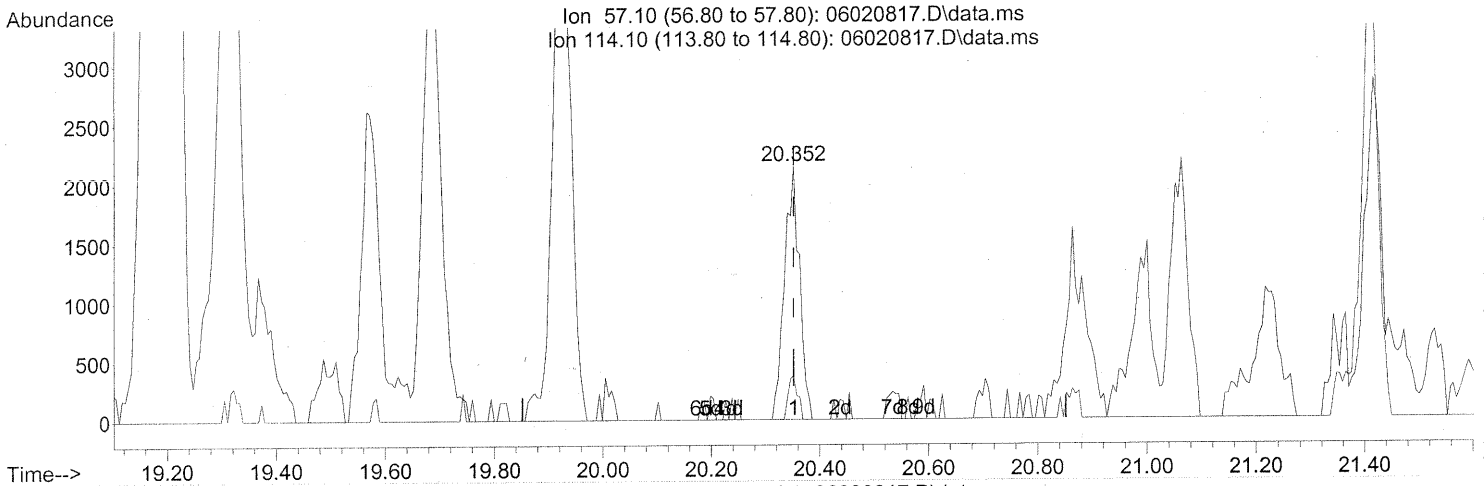
response 13897

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	33.28#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



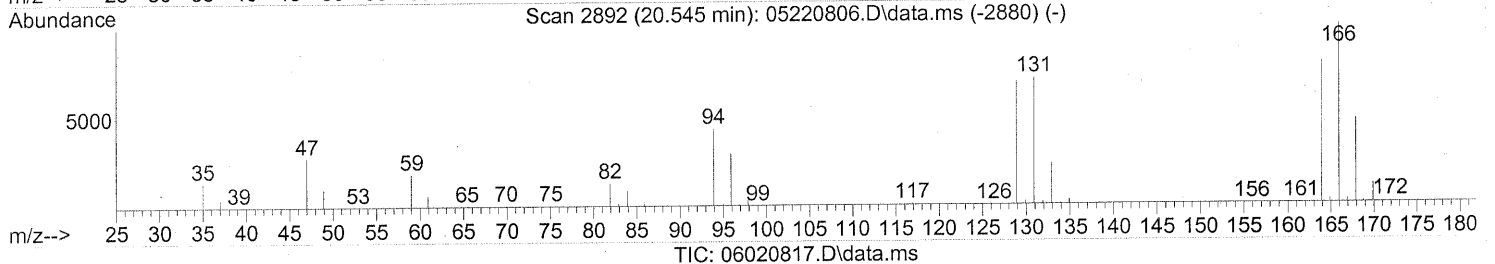
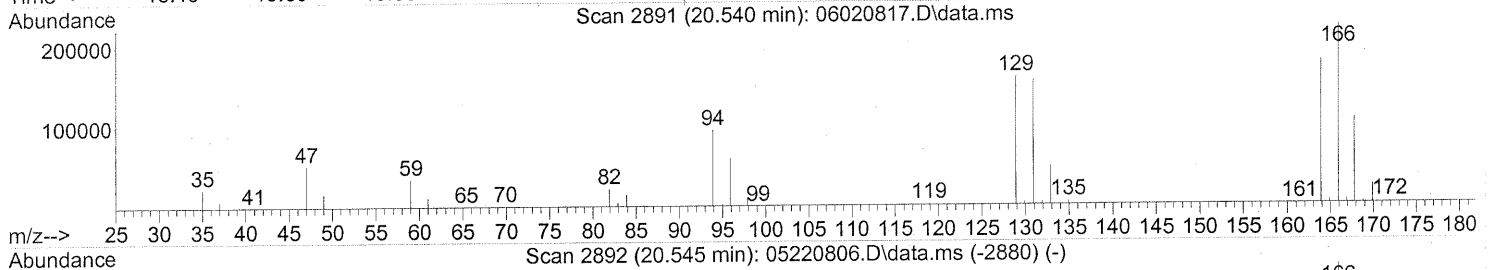
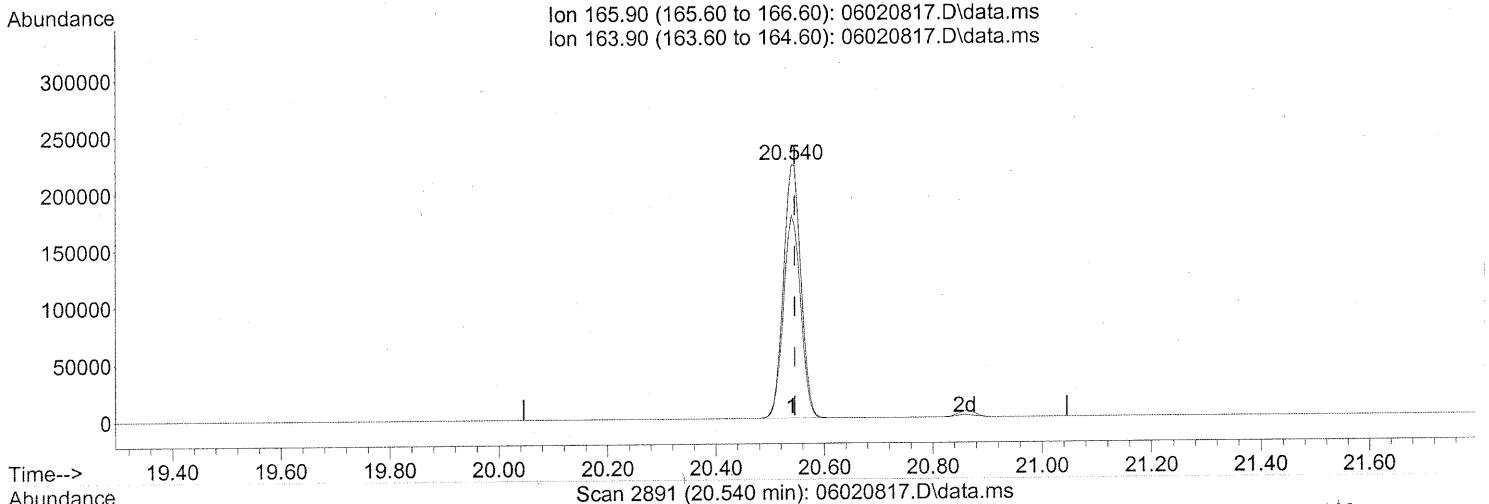
(63) n-Octane (T)  
 20.352min (-0.000) 0.22ng  
 response 4121

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	10.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 19.58ng

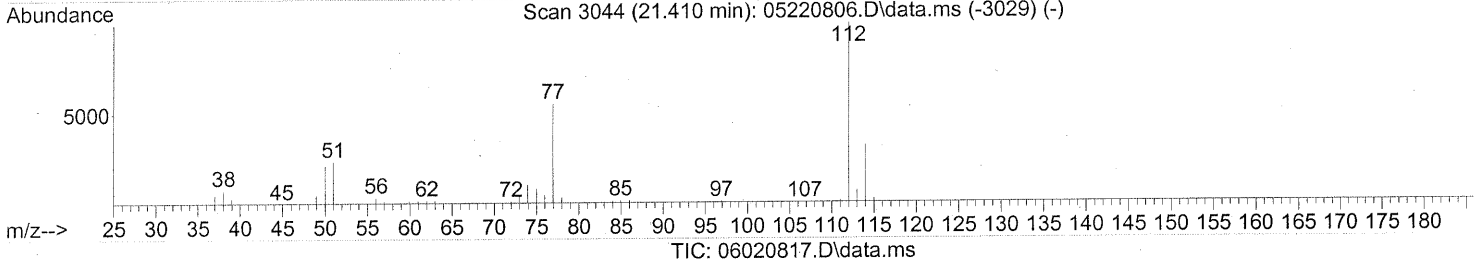
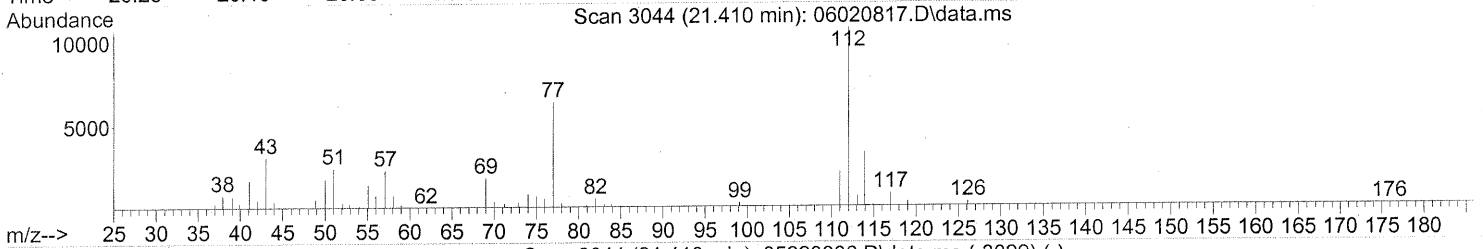
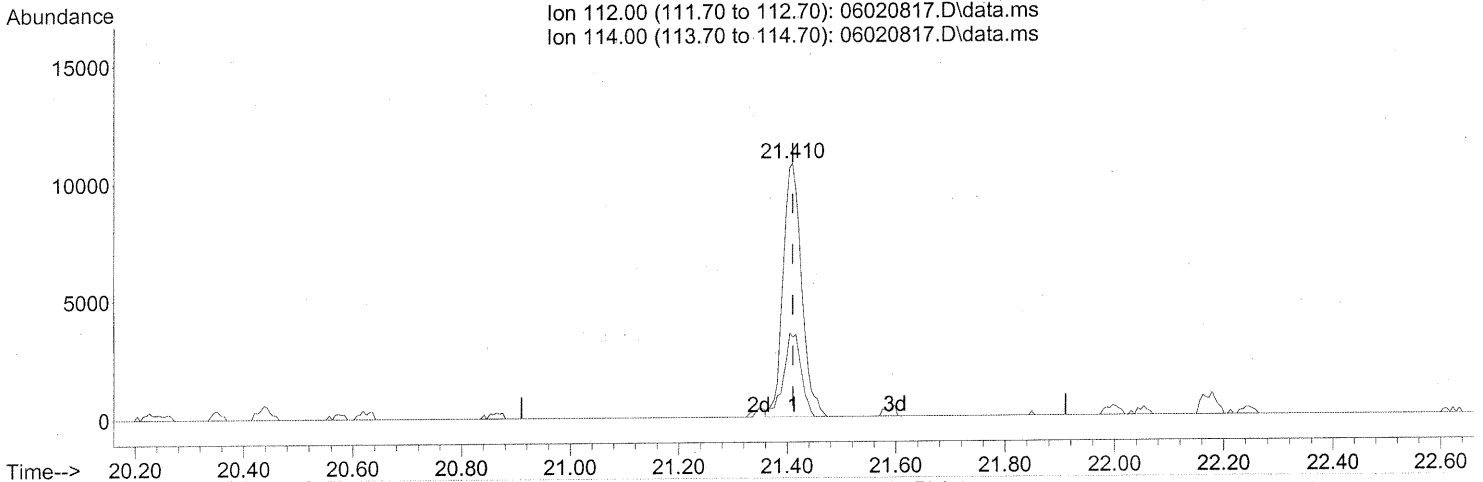
response 499033

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(65) Chlorobenzene (T)  
 21.410min (-0.000) 0.44ng

response 25570

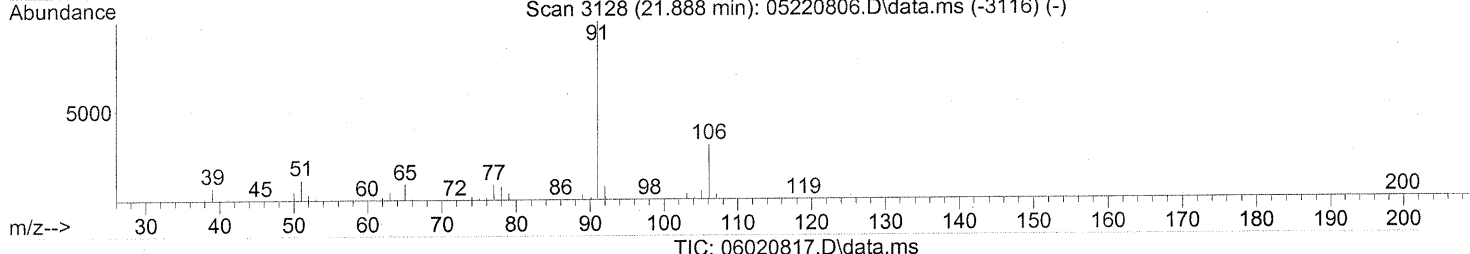
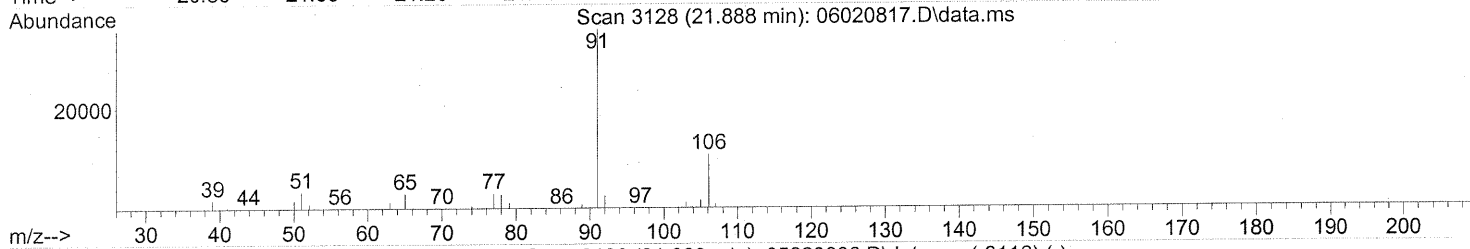
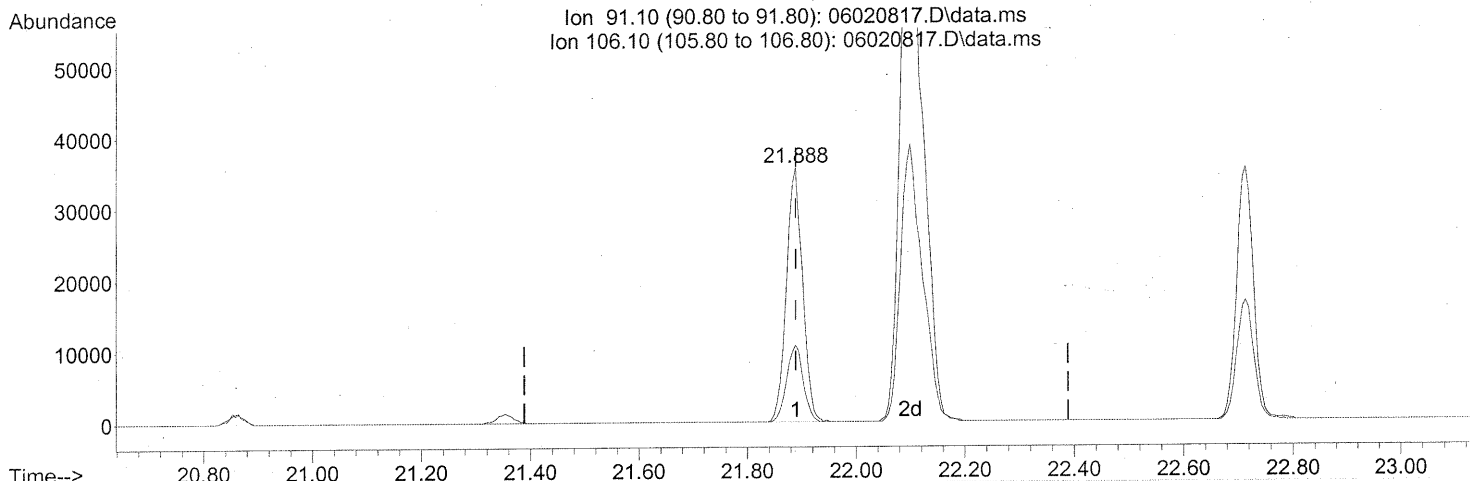
Ion	Exp%	Act%
112.00	100	100
114.00	32.40	30.48
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 0.74ng

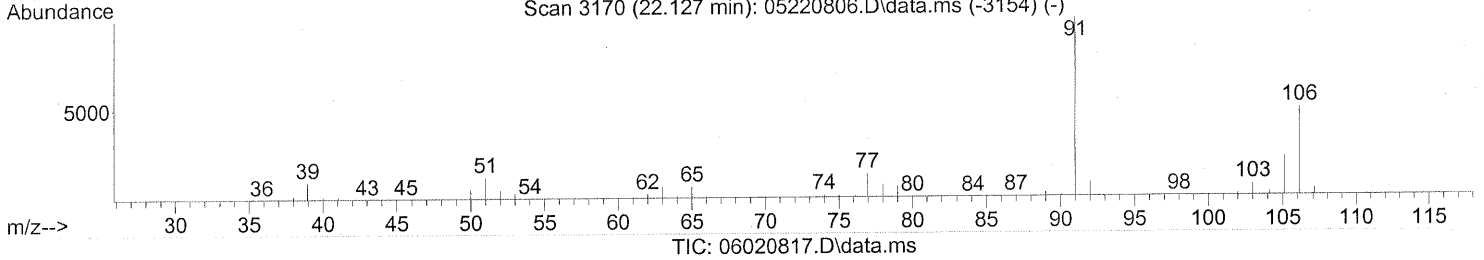
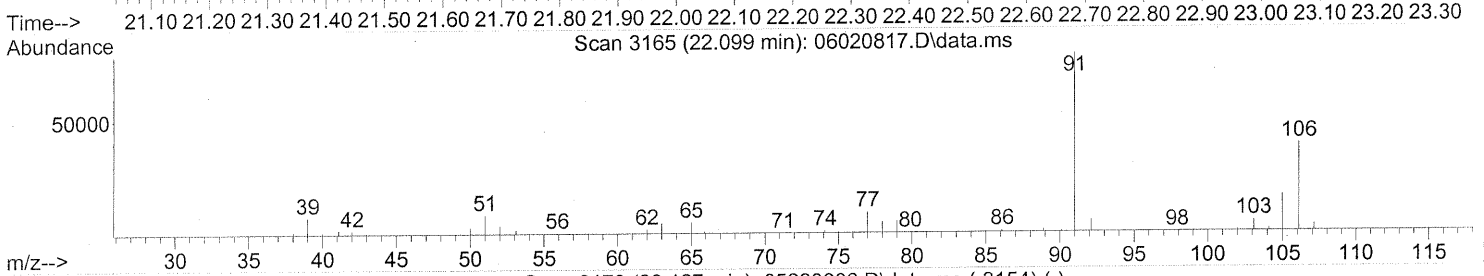
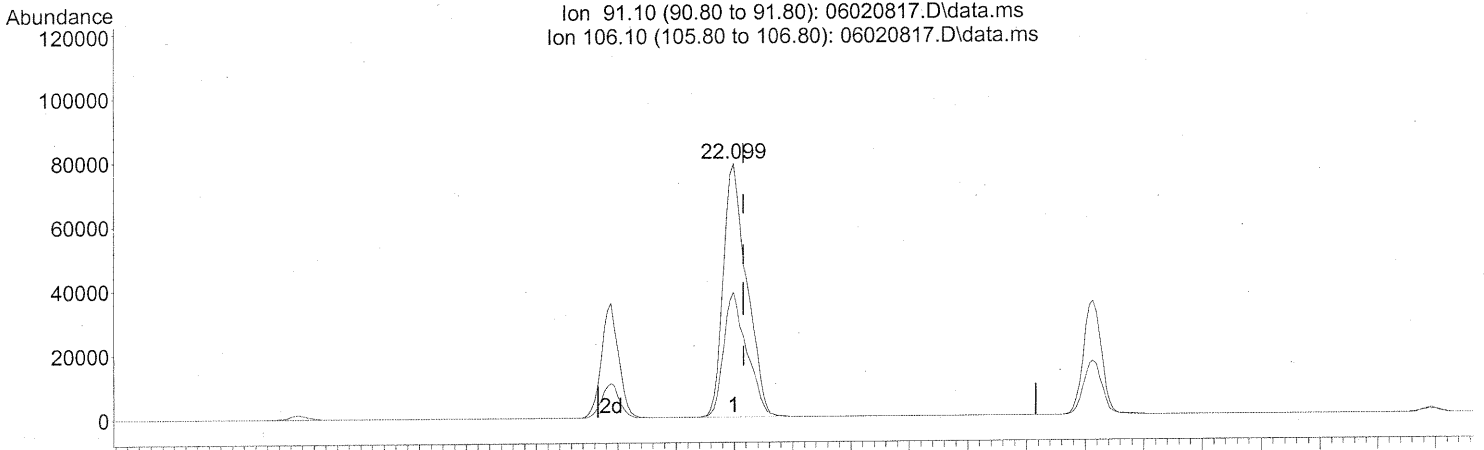
response 72903

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

22.099min (-0.017) 3.35ng

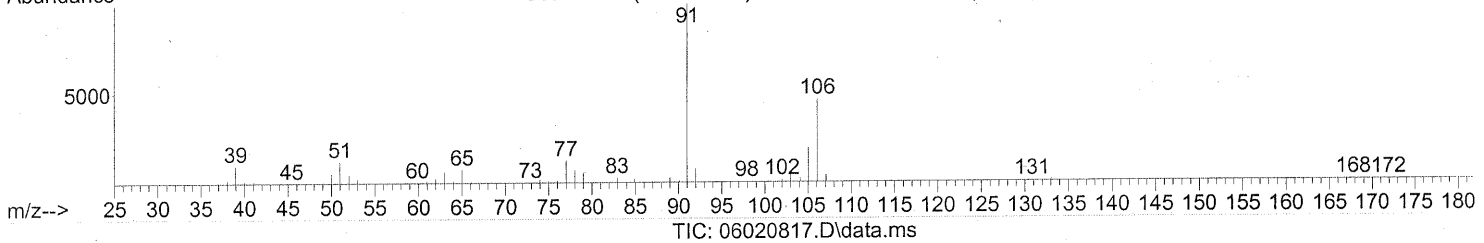
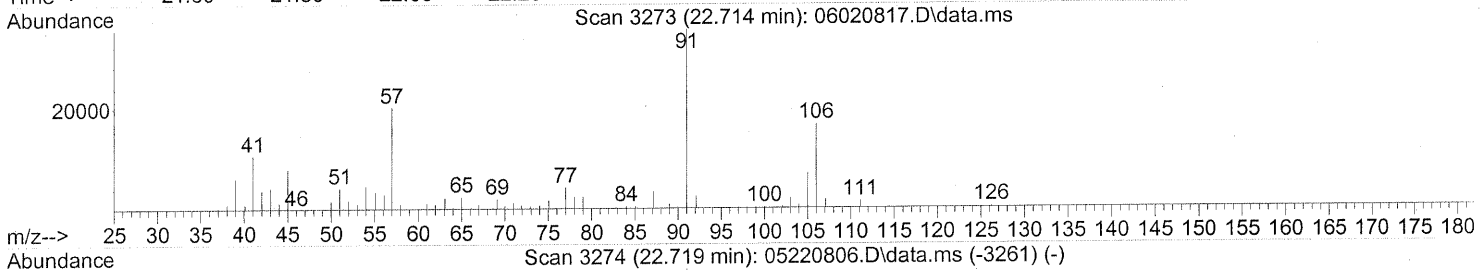
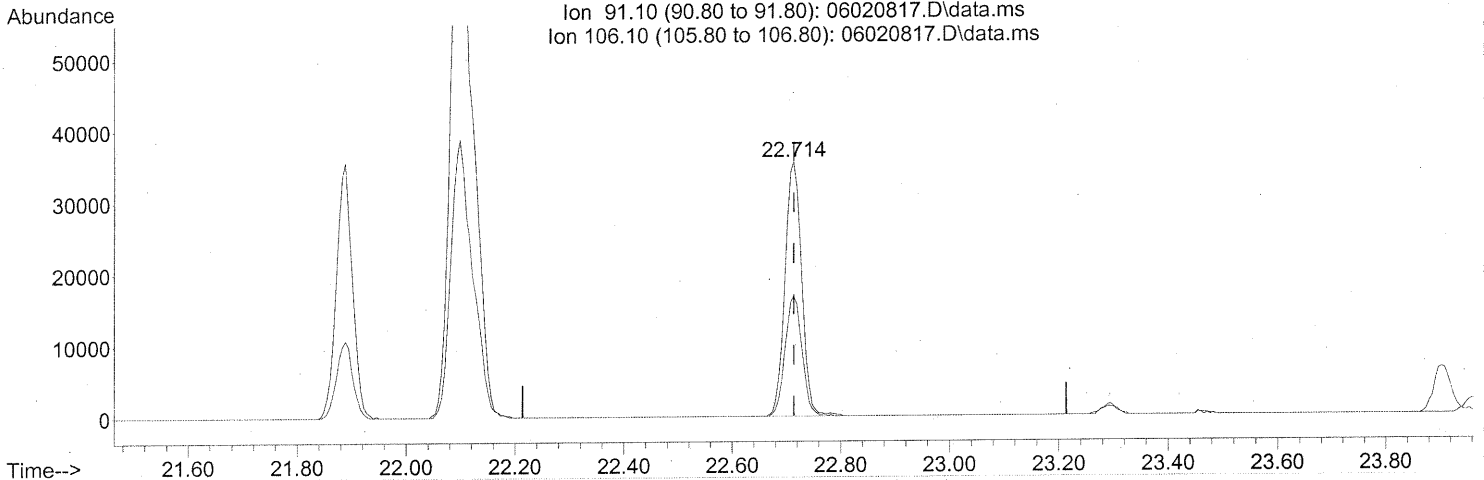
response 221198

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.89
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 1.06ng

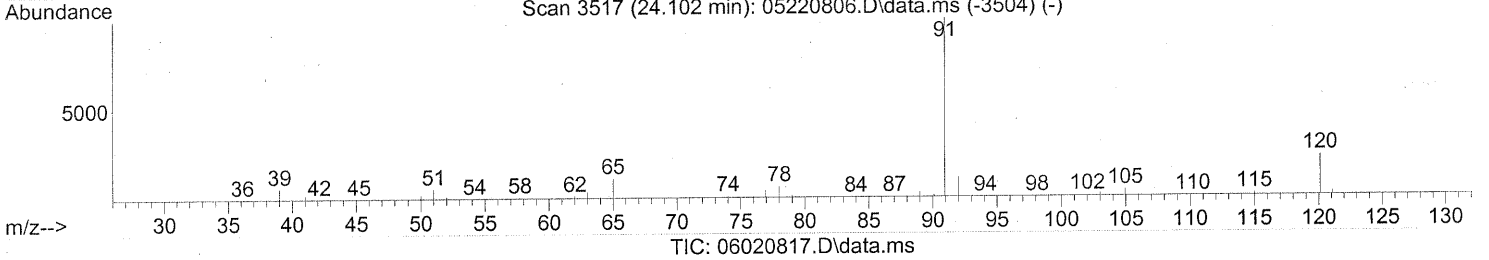
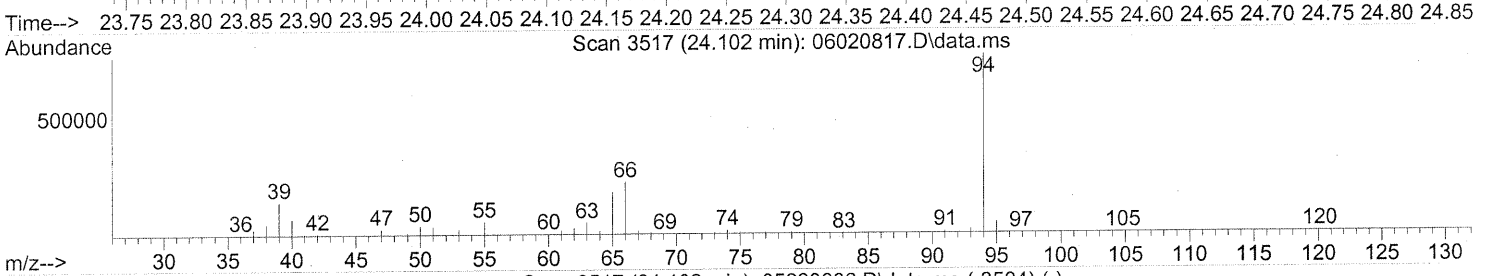
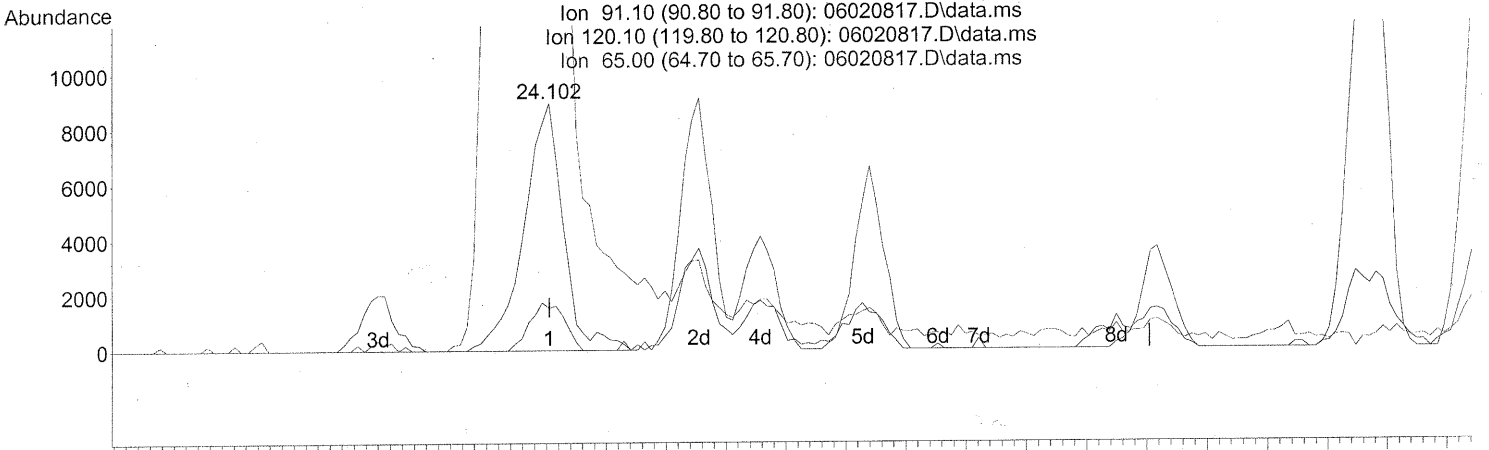
response 75830

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	48.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.17ng  
 response 20413

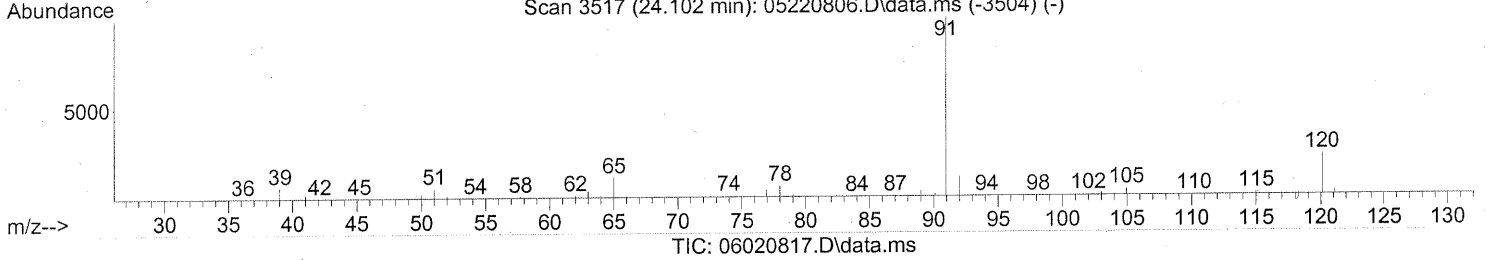
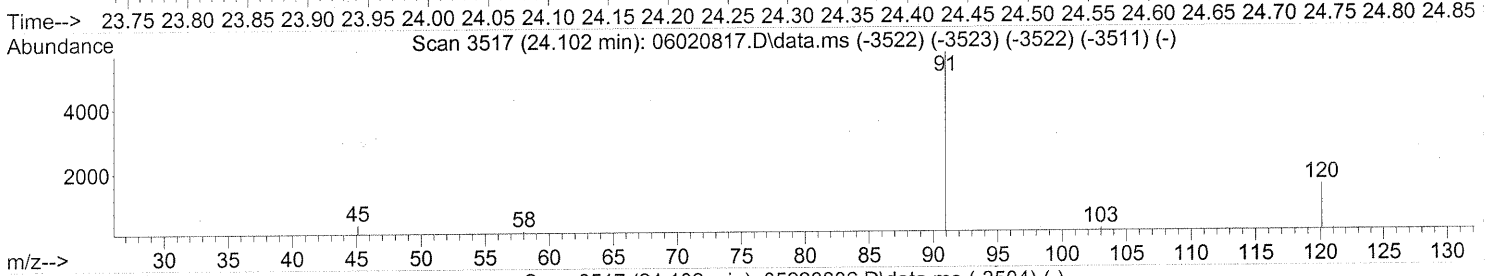
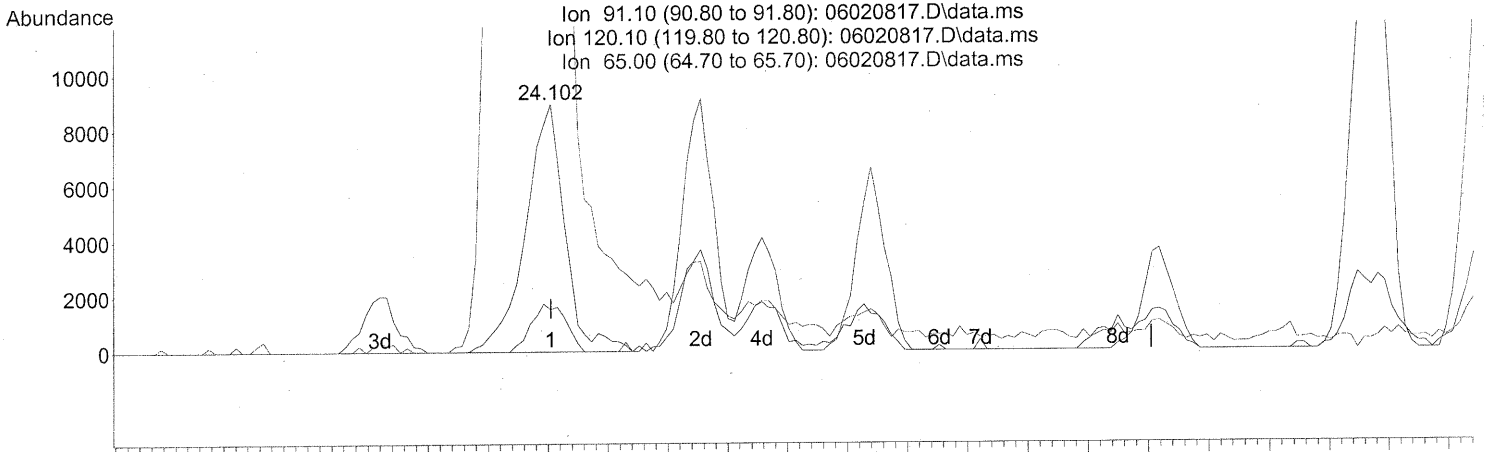
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	17.01
65.00	11.40	4936.68#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.17ng  
 response 20413

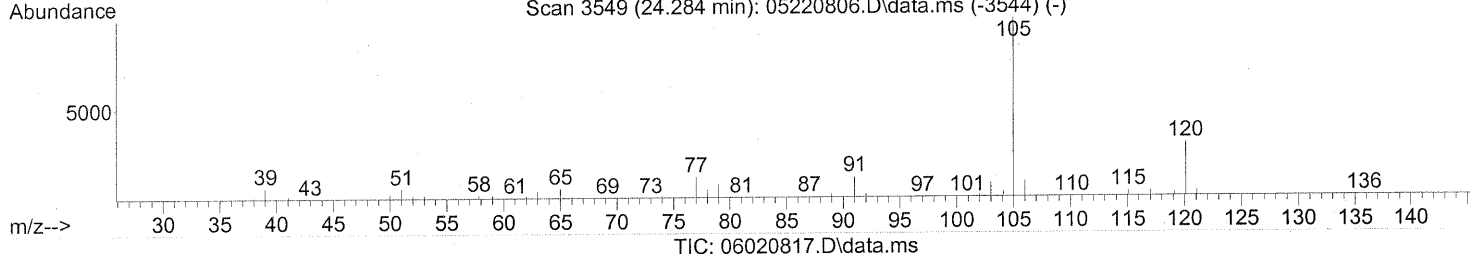
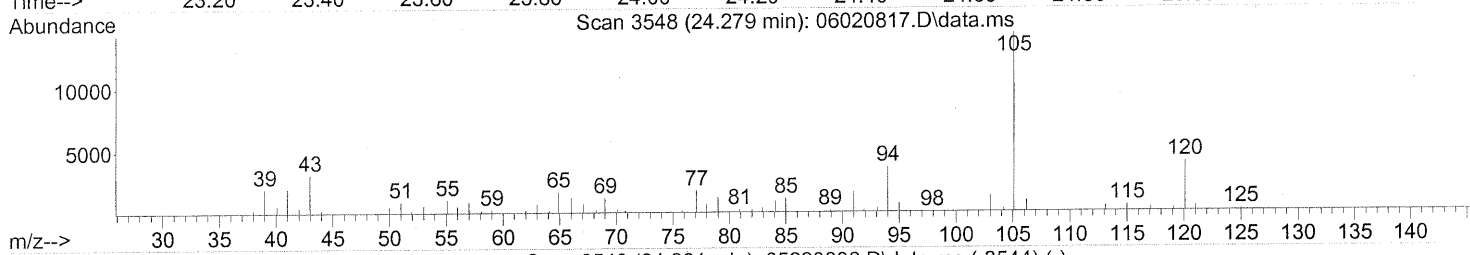
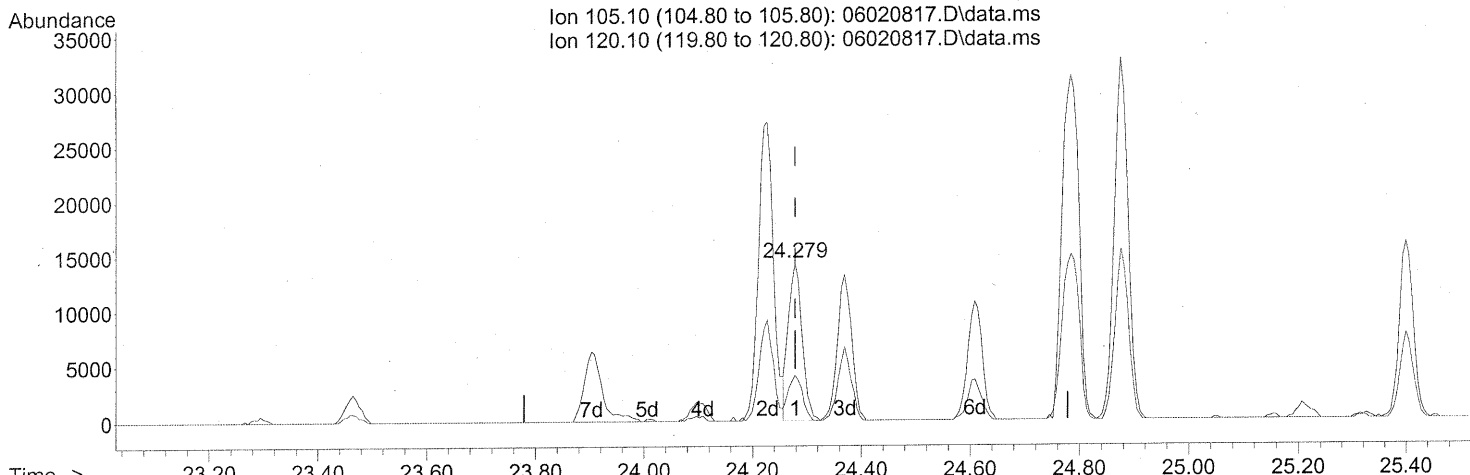
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	17.01
65.00	11.40	4936.68#
0.00	0.00	0.00

AFTER SUBTRACTION  
 P 06/06/08  
 L 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.27ng

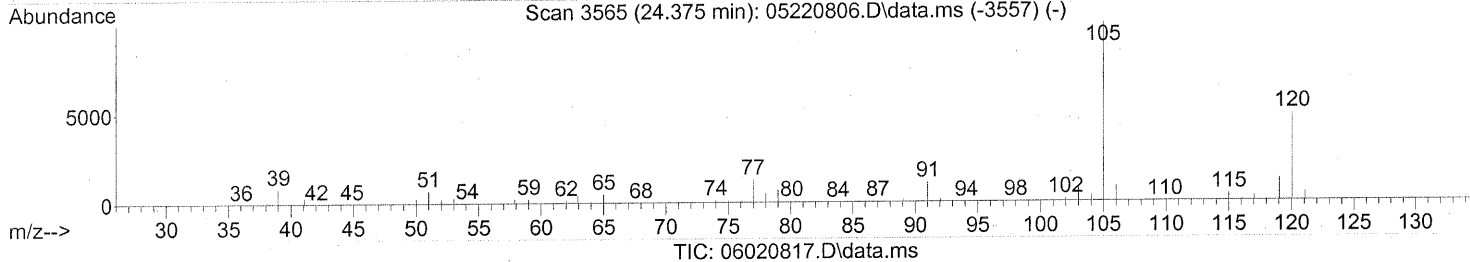
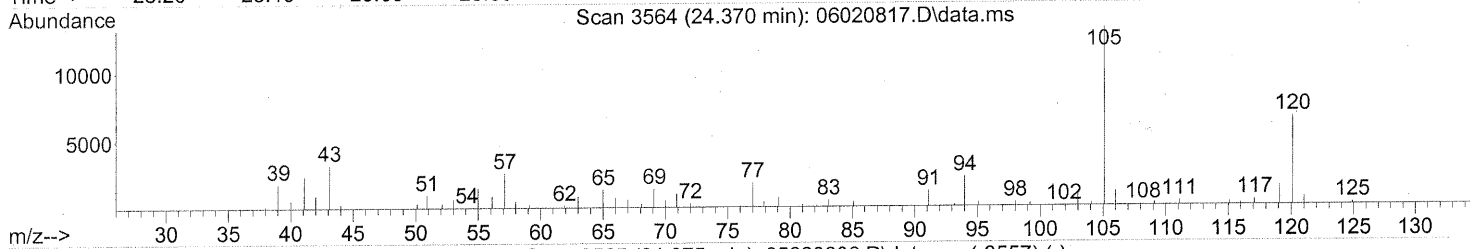
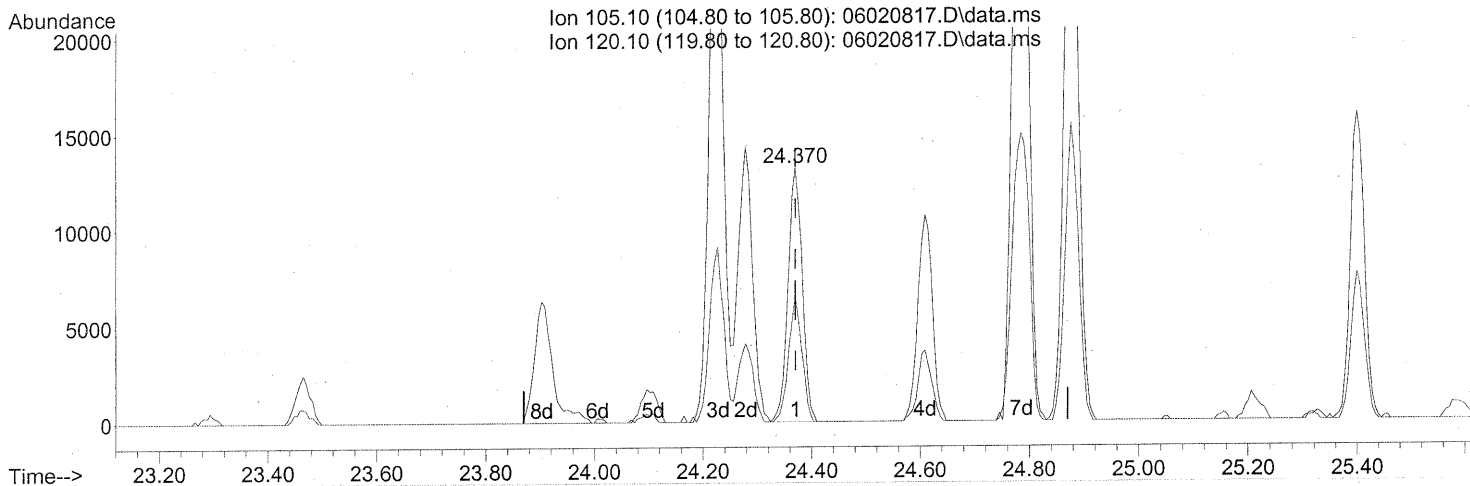
response 25091

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.28ng

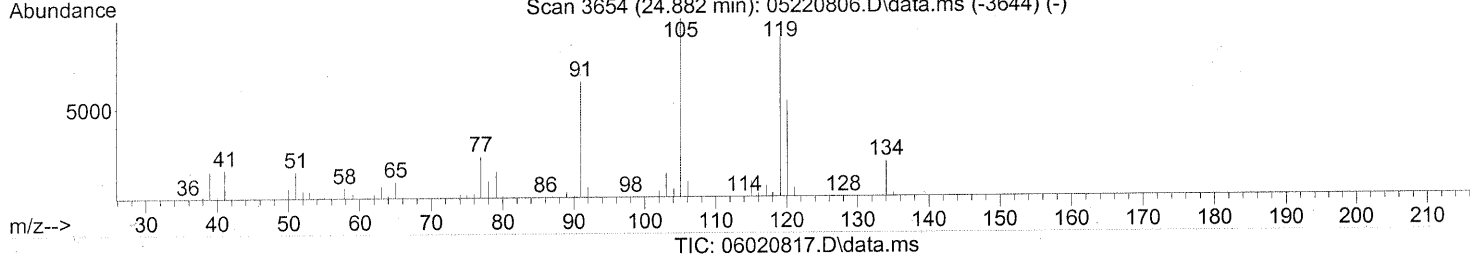
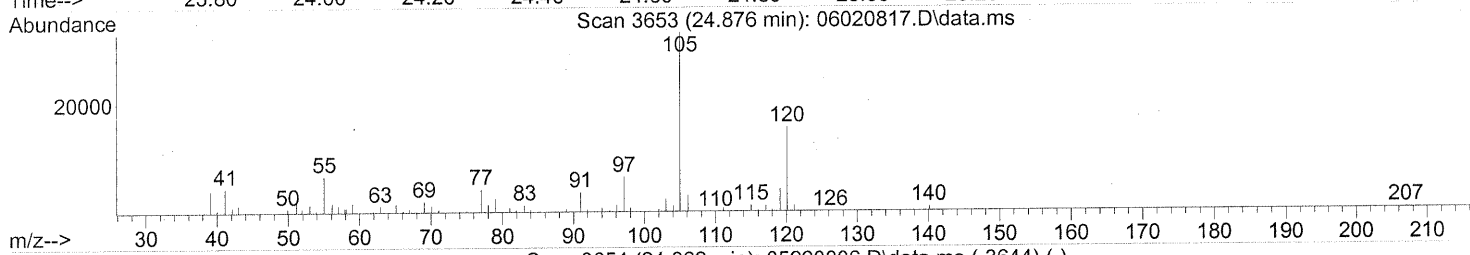
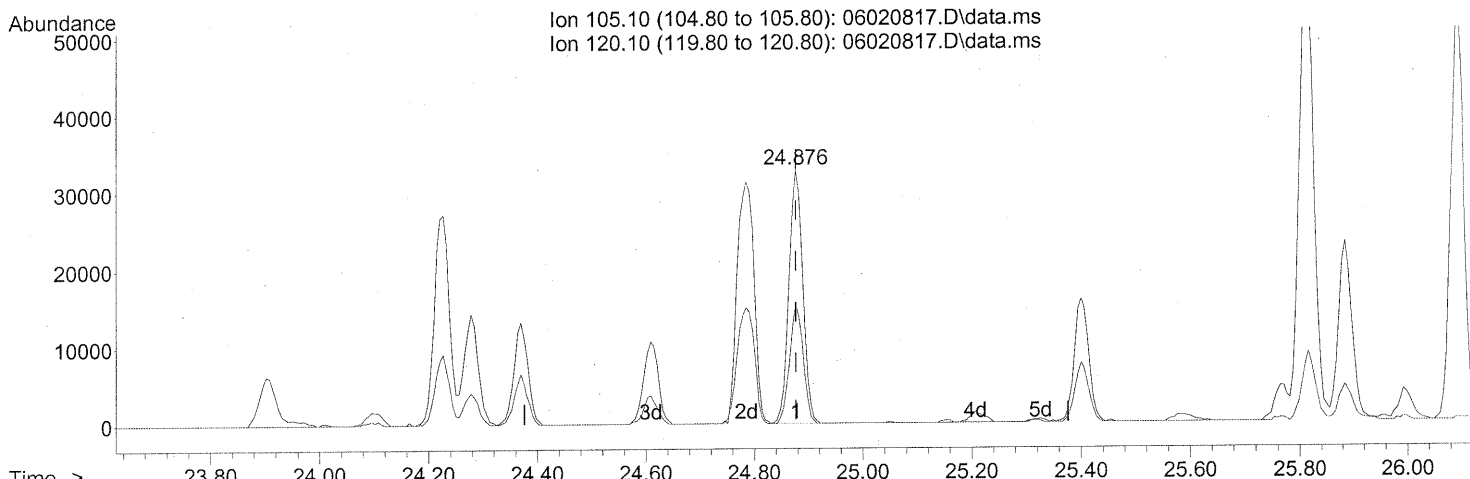
response 24003

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	46.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 0.67ng

response 58355

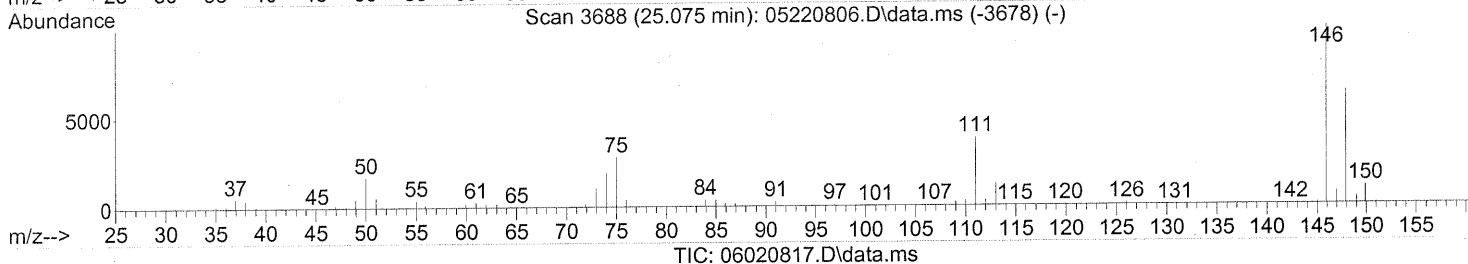
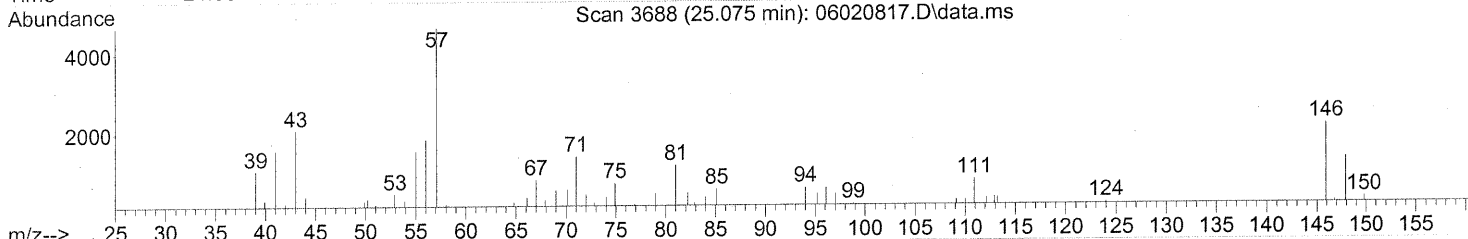
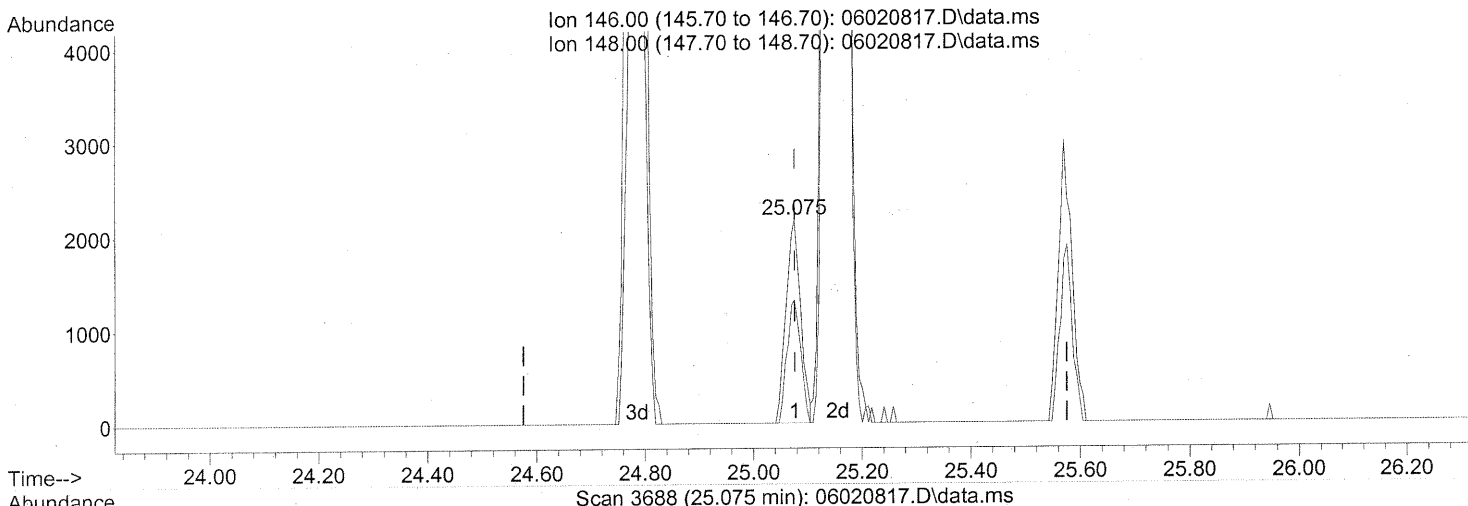
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.93
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.075min (-0.000) 0.08ng

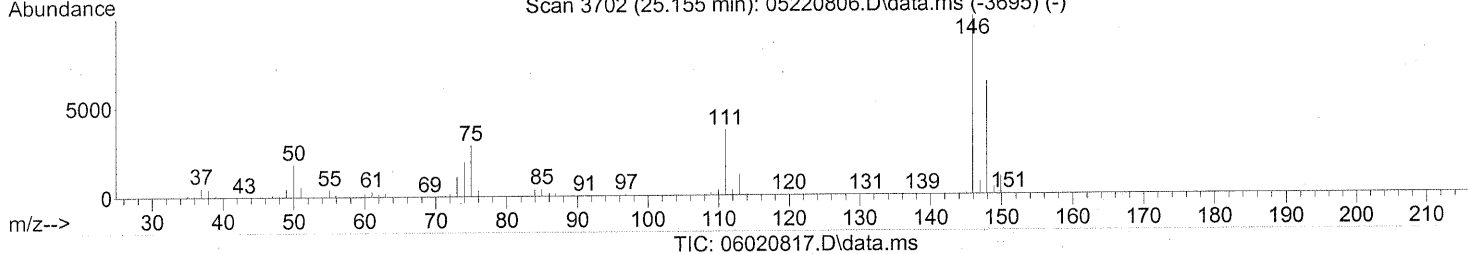
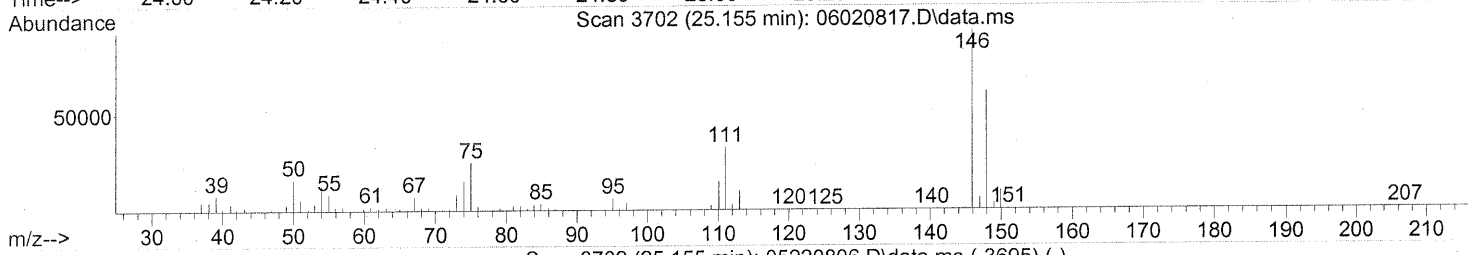
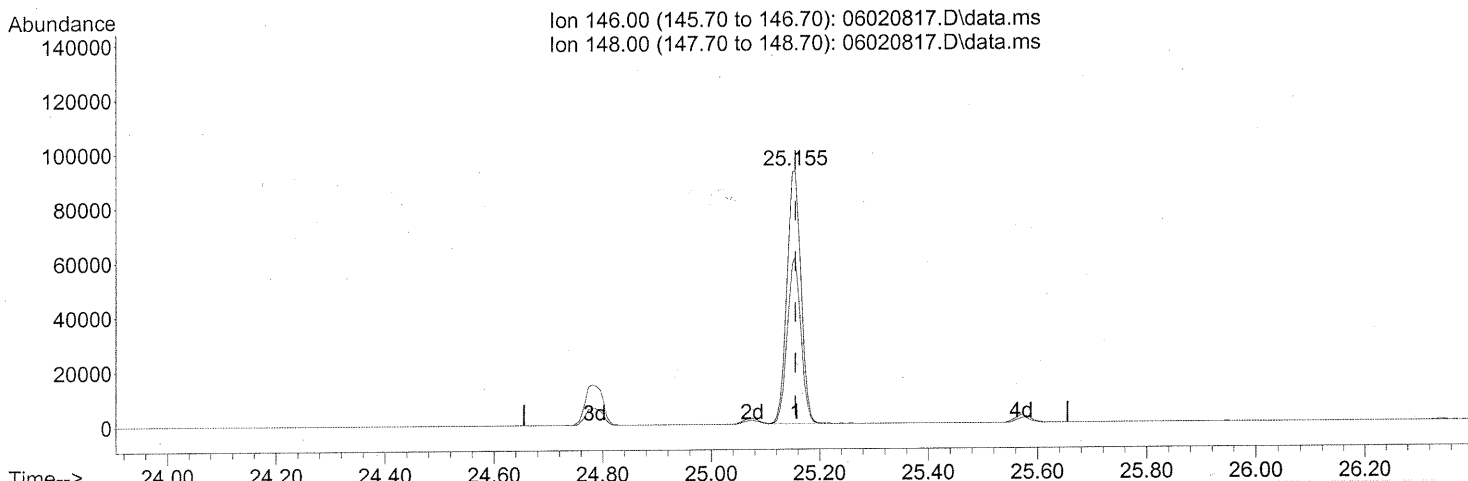
response 4087

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	56.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 3.22ng

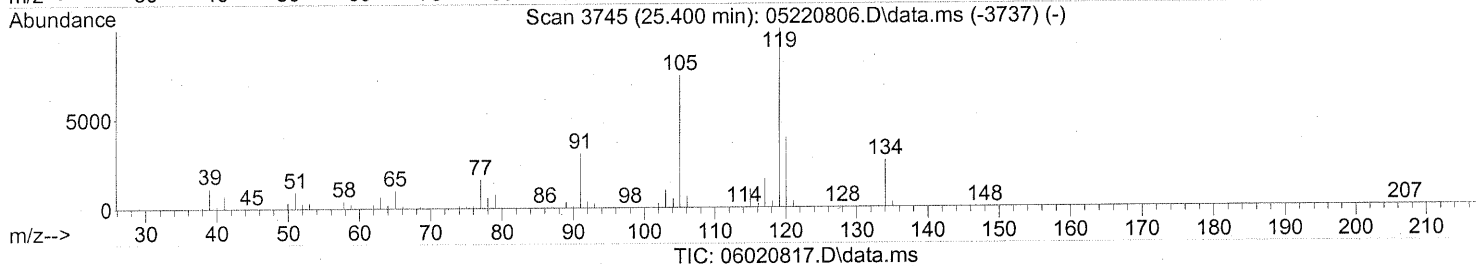
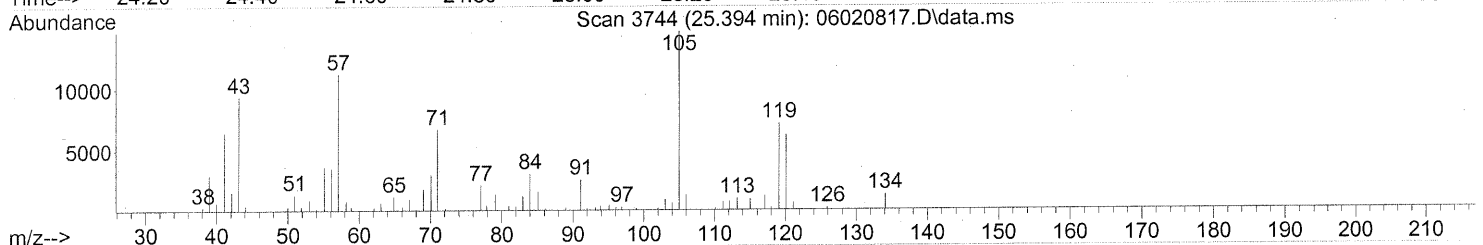
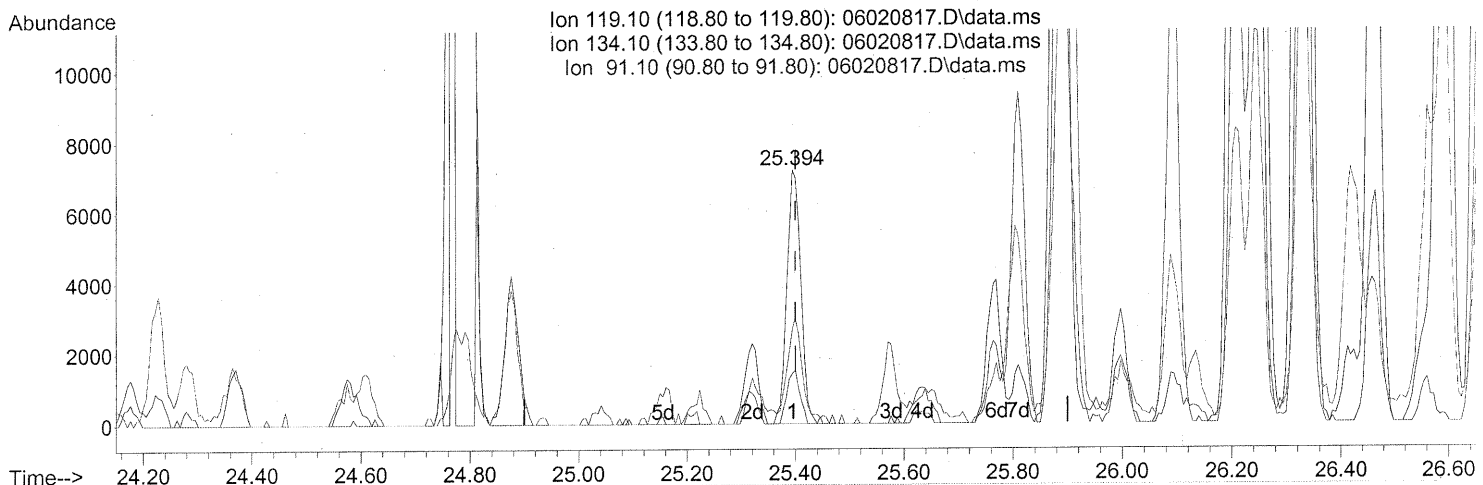
response 169401

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.14ng

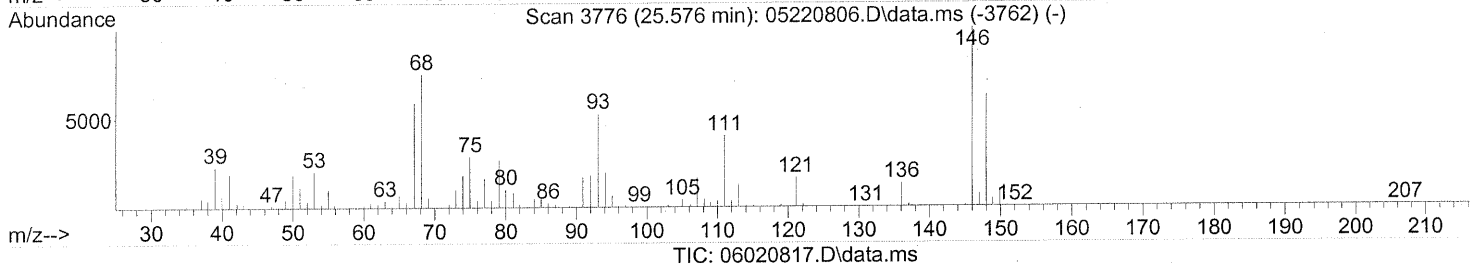
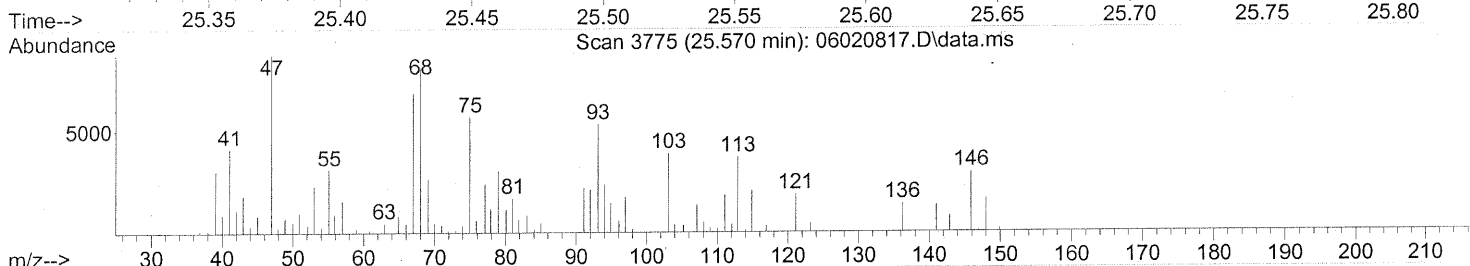
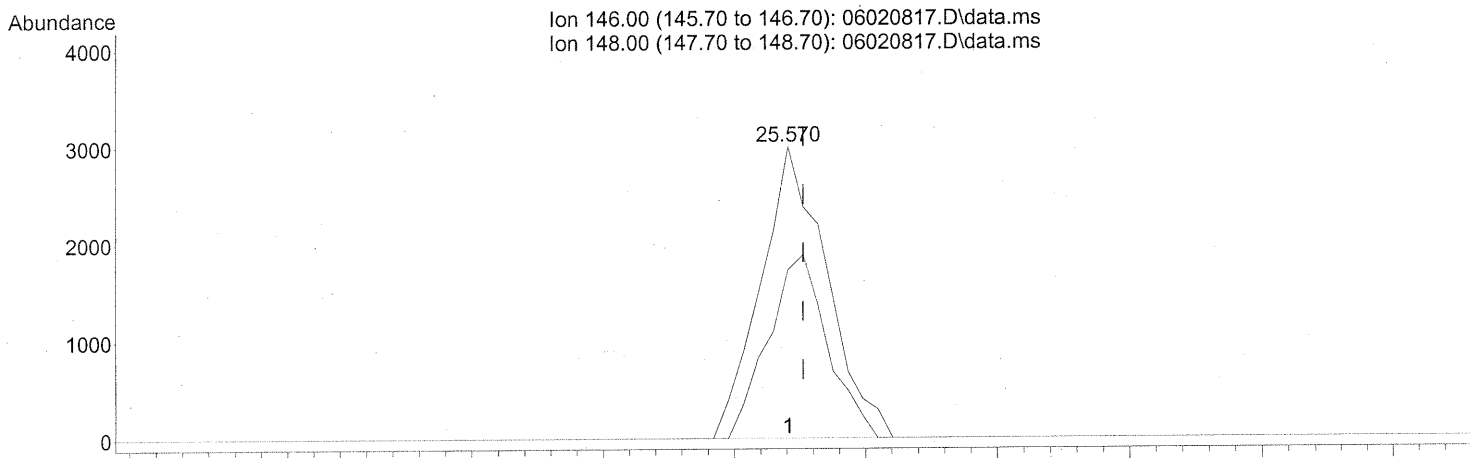
response 12825

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	19.46
91.10	27.10	46.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.570min (-0.006) 0.10ng

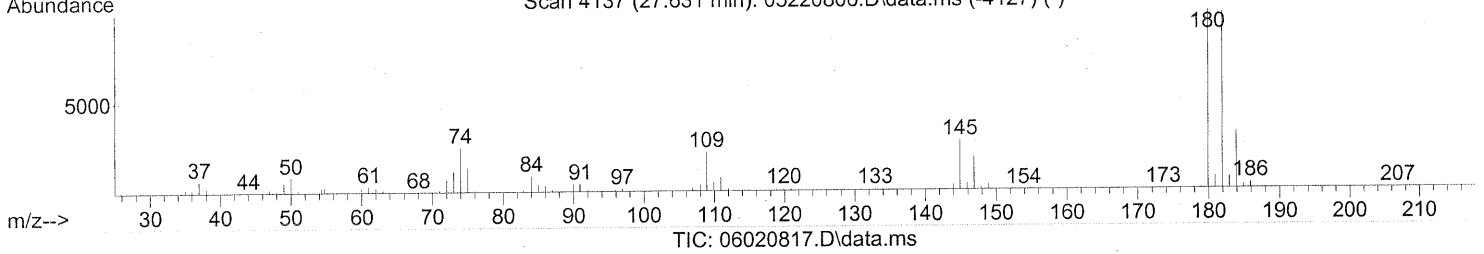
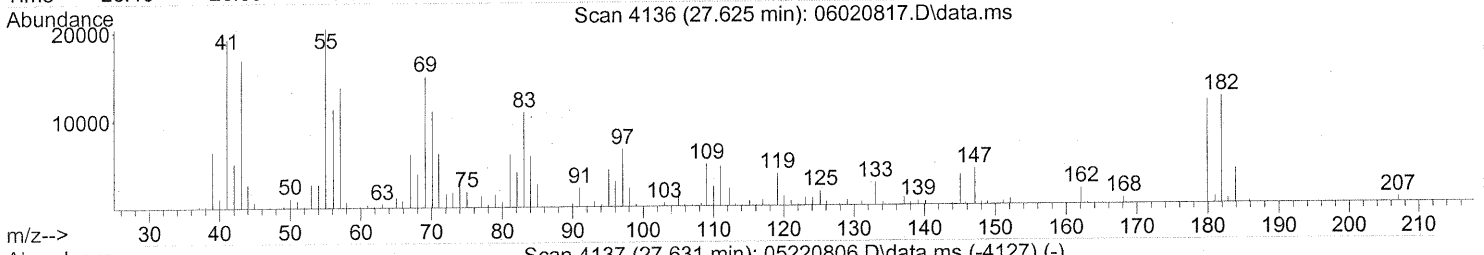
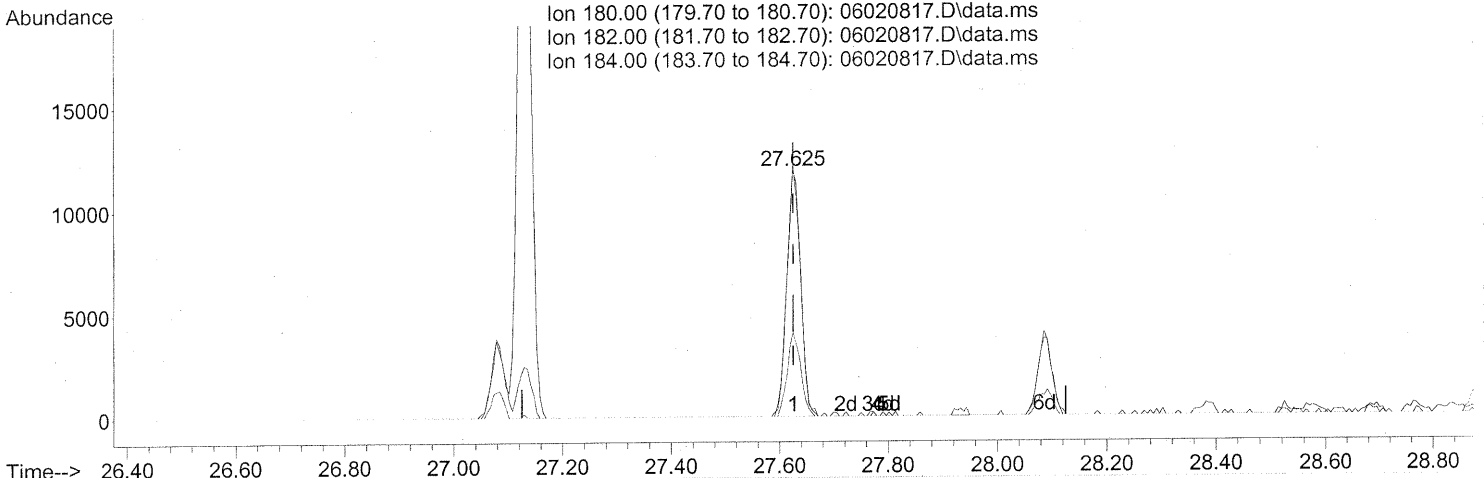
response 5211

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	56.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.56ng

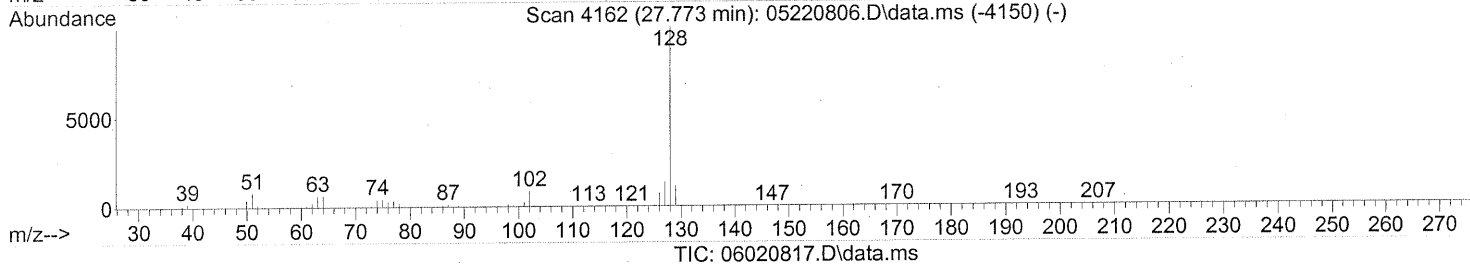
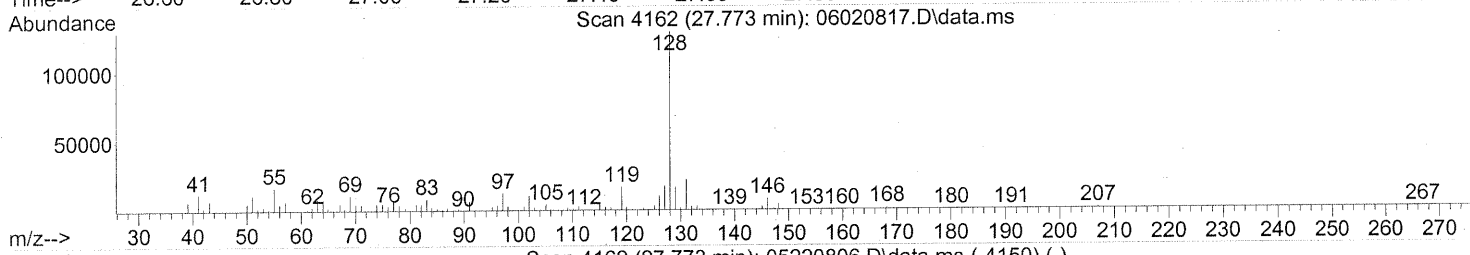
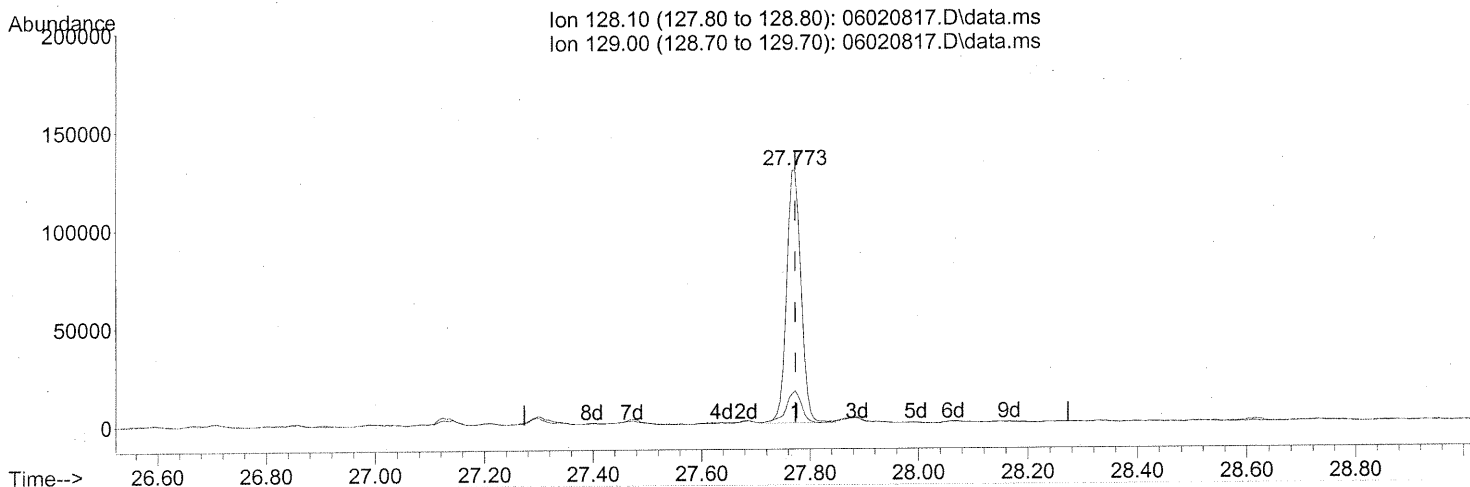
response 21117

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	99.27
184.00	30.30	33.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(95) Naphthalene (T)

27.773min (-0.000) 2.11ng

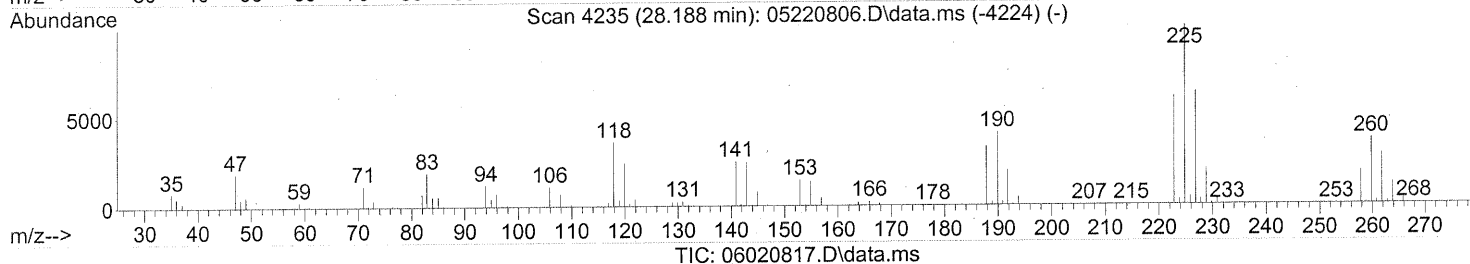
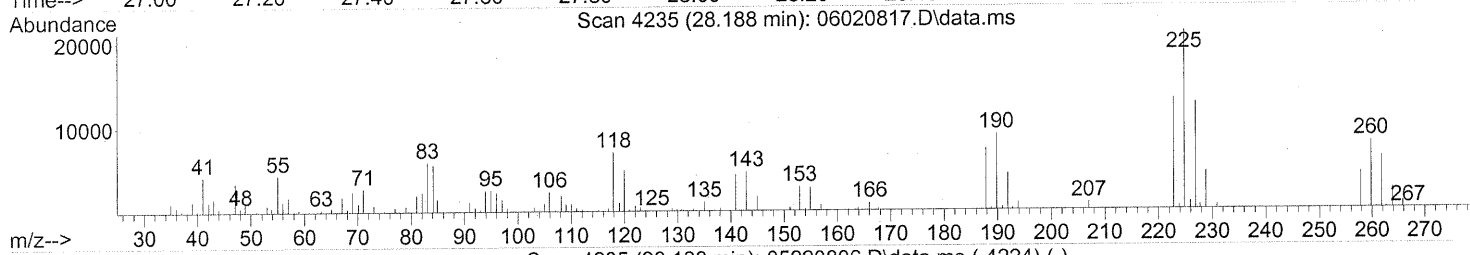
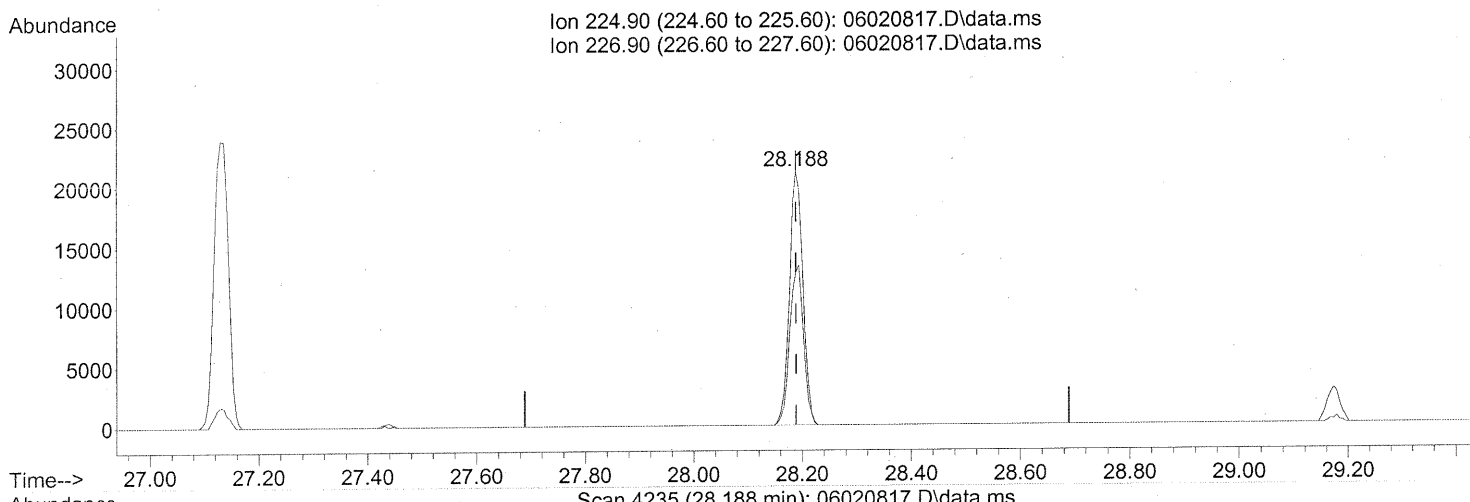
response 240660

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020817.D  
Acq On : 2 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-012 (500mL)  
Misc : ENSR SG53B-05 (-3.7, 3.5)  
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 06 17:14:07 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

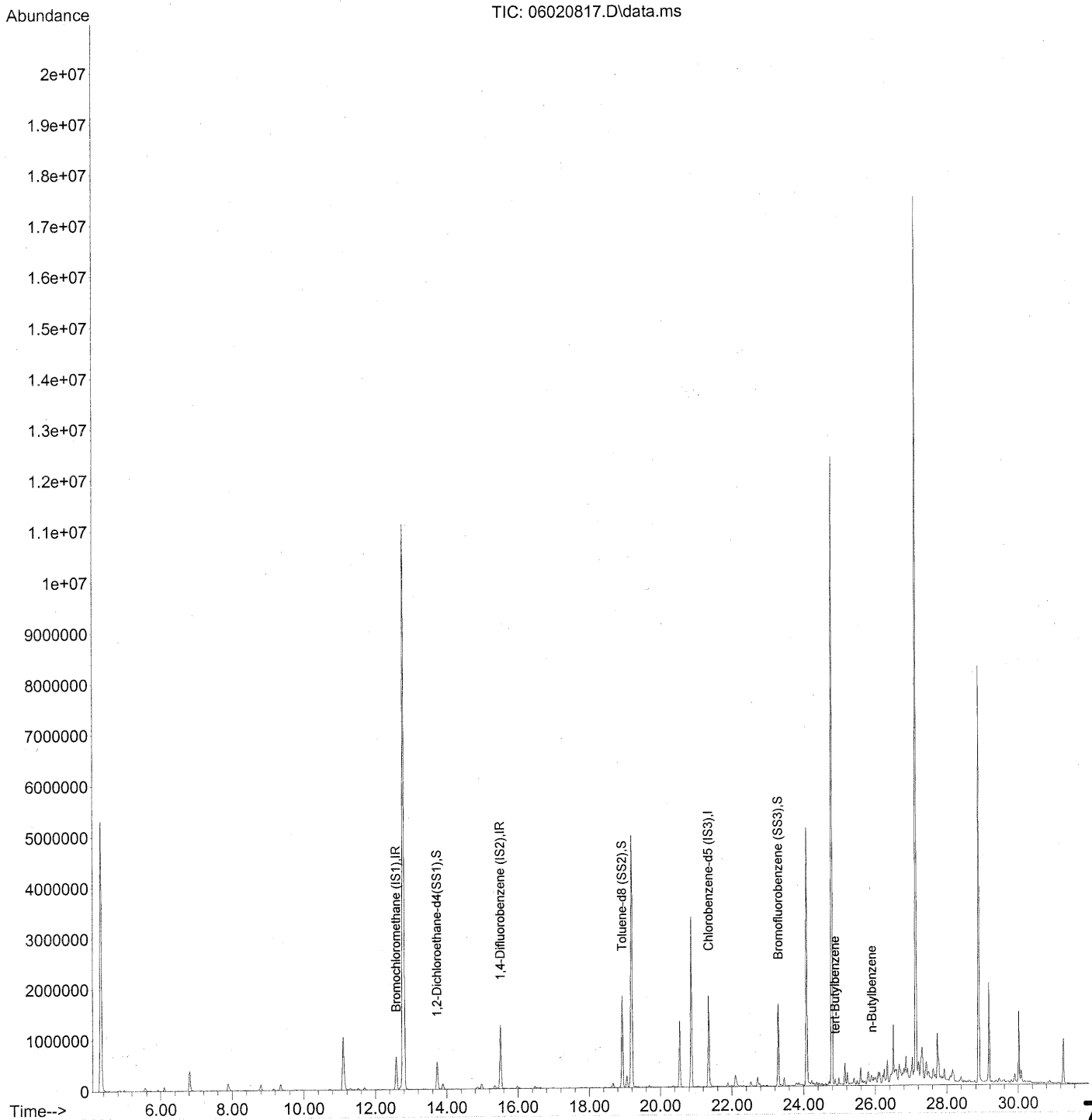
28.188min (-0.000) 1.46ng

response 36491

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	64.45
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 08 17:22:58 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 08 17:22:58 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	344464	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1500022	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	705477	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	538778	22.573	ng	-0.02
Spiked Amount	25.000		Recovery	=	90.28%	✓
5) Toluene-d8 (SS2)	18.93	98	1542515	24.346	ng	-0.01
Spiked Amount	25.000		Recovery	=	97.40%	✓
6) Bromofluorobenzene (SS3)	23.29	174	625625	24.282	ng	0.00
Spiked Amount	25.000		Recovery	=	97.12%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	7556	<del>0.091</del>	ng	# 54
8) n-Butylbenzene	25.91	91	46597	0.509	ng	# 46

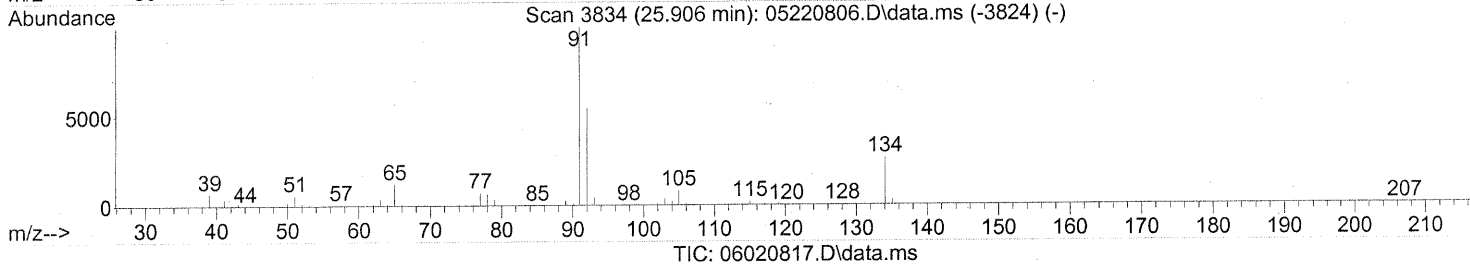
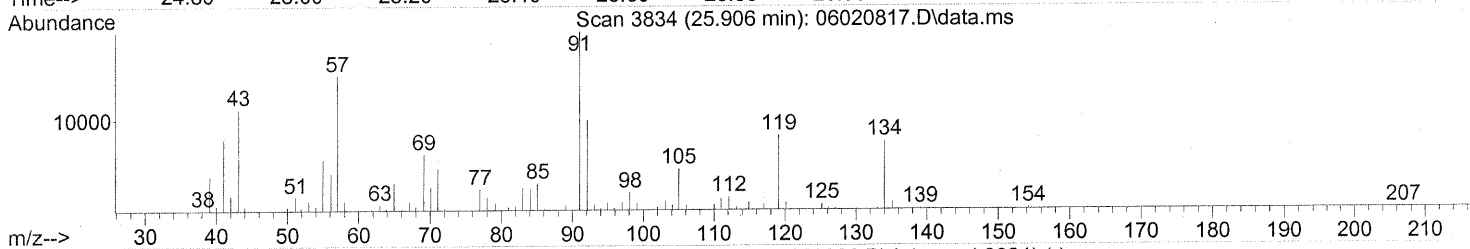
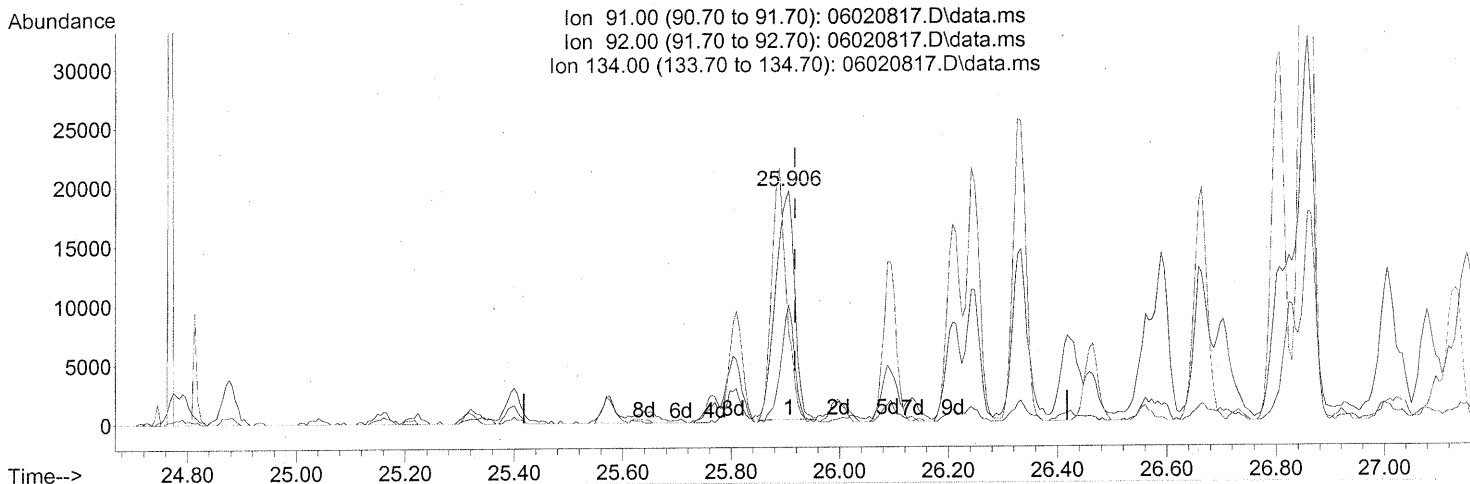
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 6/08/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020817.D  
 Acq On : 2 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-012 (500mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 08 17:22:58 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

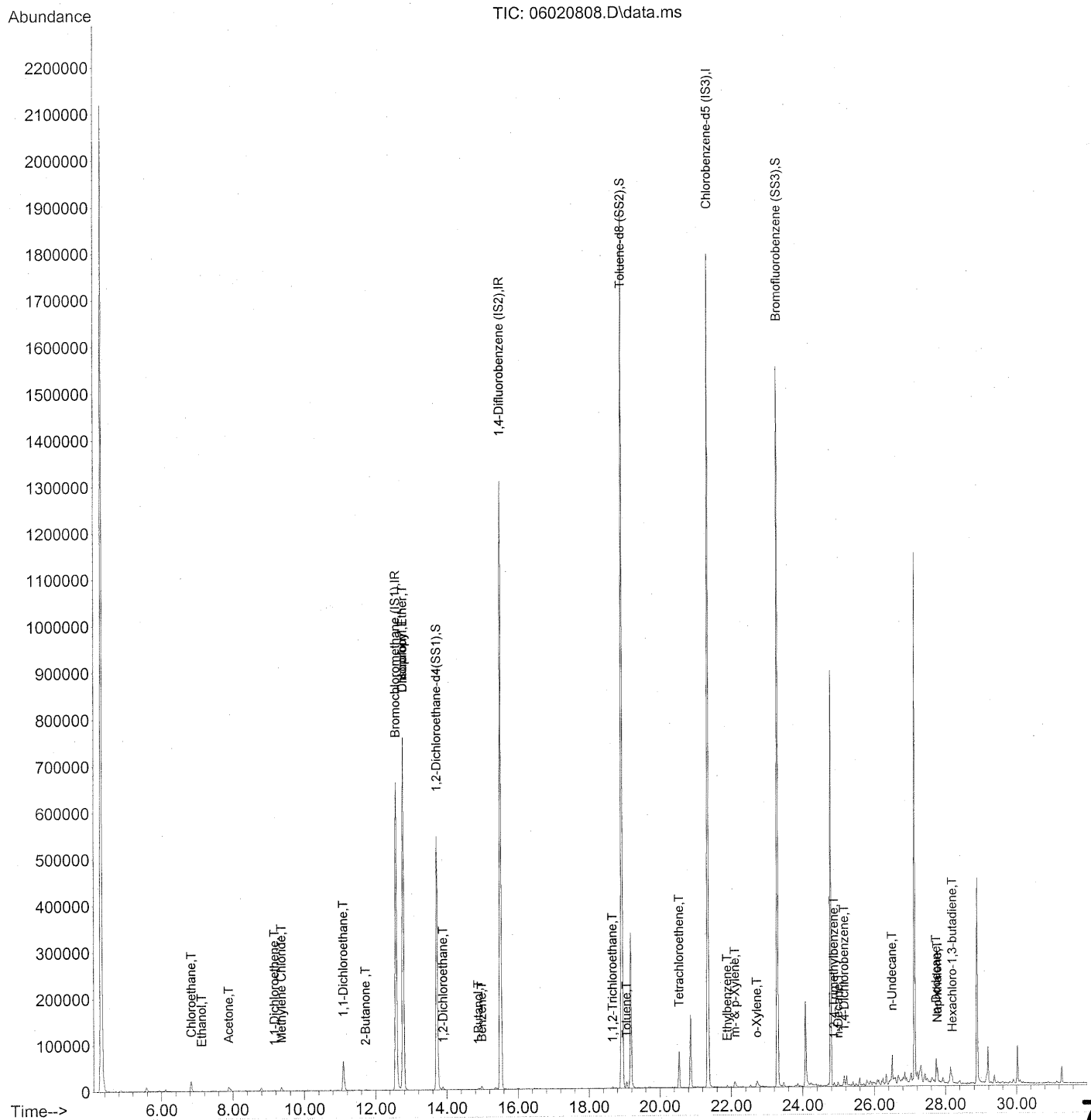
25.906min (-0.011) 0.51ng

response 46597

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	38.15#
134.00	28.80	87.85#
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020808.D  
 Acq On : 2 Jun 2008 2:24 pm  
 Operator : RTB  
 Sample : P0801548-012 DIL (30mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 15:18:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020808.D  
 Acq On : 2 Jun 2008 2:24 pm  
 Operator : RTB  
 Sample : P0801548-012 DIL (30mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 15:18:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	355279	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1548339	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	709750	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	572772	23.267	ng	-0.01
Spiked Amount	25.000		Recovery	=	93.08%	✓
57) Toluene-d8 (SS2)	18.92	98	1599310	25.090	ng	0.00
Spiked Amount	25.000		Recovery	=	100.36%	✓
73) Bromofluorobenzene (SS3)	23.29	174	609722	23.522	ng	0.00
Spiked Amount	25.000		Recovery	=	94.08%	✓

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.83	42	922	N.D.		
3) Dichlorodifluoromethane	4.98	85	1911	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.74	62	943	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.51	94	237	N.D.		
9) Chloroethane	6.84	64	28425	1.786	ng	93
10) Ethanol	7.13	45	954	0.051	ng	# 34
11) Acetonitrile	7.47	41	1308	N.D.		
12) Acrolein	7.68	56	52	N.D.		
13) Acetone	7.88	58	5619	0.294	ng	# 63
14) Trichlorofluoromethane	8.16	101	744	N.D.		
15) Isopropanol	8.34	45	2198	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.16	96	1212	0.062	ng	# 71
18) tert-Butanol	9.29	59	450	N.D.		
19) Methylene Chloride	9.36	84	5424	0.254	ng	# 81
20) Allyl Chloride	9.45	41	55	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	2065	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	84266	2.272	ng	95
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.71	72	879	0.063	ng	# 73
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	84964	4.967	ng	# 1
30) Ethyl Acetate	12.73	61	55	N.D.		
31) n-Hexane	12.70	57	822	N.D.		

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Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020808.D  
 Acq On : 2 Jun 2008 2:24 pm  
 Operator : RTB  
 Sample : P0801548-012 DIL (30mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 15:18:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	12.77	83	818786	25.273 ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	13.89	62	7617	0.243 ng	99
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	14.88	56	3010	0.141 ng	86
41) Benzene	14.98	78	8802	0.109 ng	100
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	15.40	84	855	N.D.	
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.	
45) 1,2-Dichloropropane	0.00	63	0	N.D.	
46) Bromodichloromethane	0.00	83	0	N.D.	
47) Trichloroethene	16.53	130	681	N.D.	
48) 1,4-Dioxane	0.00	88	0	N.D.	
49) Isooctane	16.62	57	1250	N.D.	
50) Methyl Methacrylate	0.00	100	0	N.D.	
51) n-Heptane	0.00	71	0	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	17.79	58	115	N.D.	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	18.67	97	1850	0.092 ng	97
58) Toluene	19.05	91	14362	0.166 ng	94
59) 2-Hexanone	19.38	43	1227	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	20.18	43	70	N.D.	
63) n-Octane	20.12	57	54	N.D.	
64) Tetrachloroethene	20.54	166	30371	1.185 ng	100
65) Chlorobenzene	21.40	112	1437	N.D.	
66) Ethylbenzene	21.88	91	5467	0.055 ng	86
67) m- & p-Xylene	22.10	91	14545	0.219 ng	90
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	22.58	104	255	N.D.	
70) o-Xylene	22.71	91	5068	0.071 ng	93
71) n-Nonane	22.99	43	796	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	23.45	105	930	N.D.	
75) alpha-Pinene	23.97	93	455	N.D.	
76) n-Propylbenzene	24.10	91	1462	N.D.	
77) 3-Ethyltoluene	24.23	105	3966	N.D.	
78) 4-Ethyltoluene	24.28	105	2539	N.D.	
79) 1,3,5-Trimethylbenzene	24.37	105	3463	N.D.	

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Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020808.D  
 Acq On : 2 Jun 2008 2:24 pm  
 Operator : RTB  
 Sample : P0801548-012 DIL (30mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 15:18:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

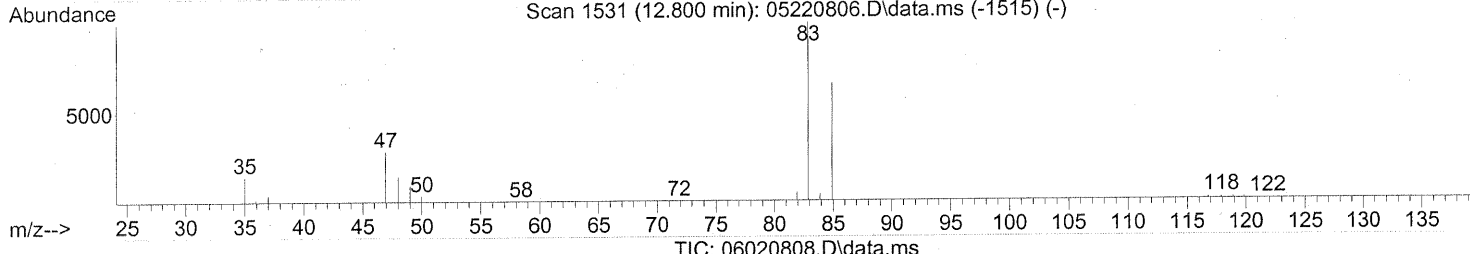
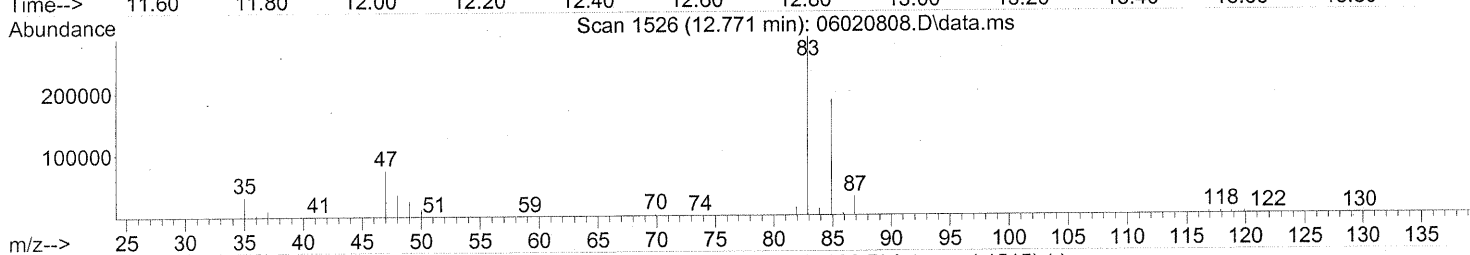
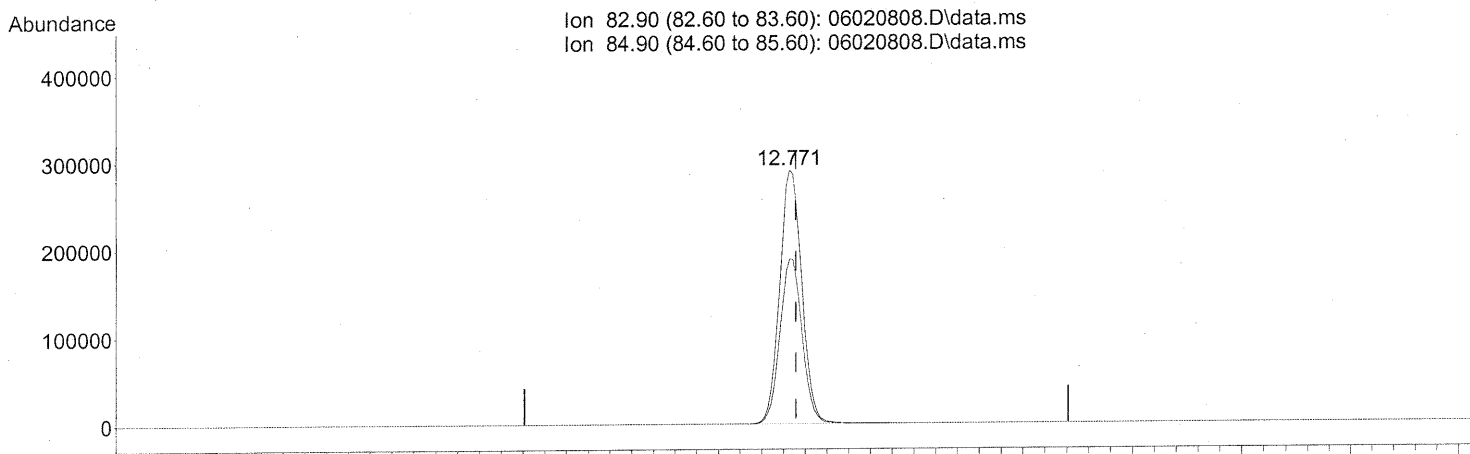
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	71	N.D.		
81) 2-Ethyltoluene	24.62	105	1702	N.D.		
82) 1,2,4-Trimethylbenzene	24.87	105	4669	0.054	ng	85
83) n-Decane	24.99	57	4263	0.089	ng	91
84) Benzyl Chloride	25.05	91	414	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	164	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	10067	0.190	ng	97
87) sec-Butylbenzene	25.20	105	886	N.D.		
88) p-Isopropyltoluene	25.39	119	1476	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	2425	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	239	N.D.		
91) d-Limonene	25.58	68	818	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	22464	0.447	ng	82
94) 1,2,4-Trichlorobenzene	27.63	180	1663	N.D.		
95) Naphthalene	27.77	128	23989	0.209	ng	100
96) n-Dodecane	27.73	57	17220	0.345	ng	76
97) Hexachloro-1,3-butadiene	28.19	225	2184	0.087	ng	89

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020808.D  
 Acq On : 2 Jun 2008 2:24 pm  
 Operator : RTB  
 Sample : P0801548-012 DIL (30mL)  
 Misc : ENSR SG53B-05 (-3.7, 3.5)  
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 02 15:18:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)  
 12.771min (-0.011) 25.27ng  
 response 818786

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.04
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-013

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00043

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.4	0.14	0.39	0.28	0.028	
74-87-3	Chloromethane	ND	0.28	0.14	ND	0.13	0.067	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.4	0.14	ND	0.20	0.020	
75-01-4	Vinyl Chloride	0.50	0.28	0.14	0.19	0.11	0.054	
74-83-9	Bromomethane	ND	0.28	0.14	ND	0.072	0.036	
75-00-3	Chloroethane	100	0.28	0.14	39	0.11	0.053	
64-17-5	Ethanol	2.5	14	0.14	1.3	7.4	0.074	J, B
67-64-1	Acetone	13	14	0.20	5.4	5.9	0.085	J, B, M
75-69-4	Trichlorofluoromethane	1.1	0.28	0.14	0.19	0.049	0.025	
107-13-1	Acrylonitrile	ND	1.4	0.19	ND	0.64	0.090	
75-35-4	1,1-Dichloroethene	3.6	0.28	0.14	0.92	0.070	0.035	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	1.4	1.4	0.21	0.46	0.46	0.068	
75-09-2	Methylene Chloride	12	1.4	0.14	3.5	0.40	0.040	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.28	0.14	ND	0.089	0.044	
76-13-1	Trichlorotrifluoroethane	0.49	0.28	0.16	0.064	0.036	0.020	
75-15-0	Carbon Disulfide	18	1.4	0.33	5.7	0.45	0.11	
156-60-5	trans-1,2-Dichloroethene	ND	0.28	0.14	ND	0.070	0.035	
75-34-3	1,1-Dichloroethane	130	0.28	0.14	32	0.069	0.034	
1634-04-4	Methyl tert-Butyl Ether	ND	0.28	0.14	ND	0.077	0.039	
108-05-4	Vinyl Acetate	4.3	14	0.44	1.2	3.9	0.13	J, B
78-93-3	2-Butanone (MEK)	4.9	1.4	0.14	1.7	0.47	0.047	B
156-59-2	cis-1,2-Dichloroethene	ND	0.28	0.14	ND	0.070	0.035	
108-20-3	Diisopropyl Ether	ND	1.4	0.16	ND	0.33	0.039	
67-66-3	Chloroform	1,300	0.28	0.16	270	0.057	0.034	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:   Cat        Date:   6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

Test Code: EPA TO-15  
Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
Analyst: Rusty Bravo  
Sampling Media: 6.0 L Summa Canister  
Test Notes:  
Container ID: SC00043

CAS Project ID: P0801548  
CAS Sample ID: P0801548-013

Date Collected: 5/21/08  
Date Received: 5/23/08  
Date Analyzed: 6/2 - 6/3/08  
Volume(s) Analyzed: 0.50 Liter(s)  
0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.4	0.14	ND	0.33	0.034	
107-06-2	<b>1,2-Dichloroethane</b>	<b>13</b>	0.28	0.14	<b>3.2</b>	0.069	0.034	
71-55-6	1,1,1-Trichloroethane	ND	0.28	0.14	ND	0.051	0.025	
71-43-2	<b>Benzene</b>	<b>3.4</b>	0.28	0.14	<b>1.1</b>	0.087	0.044	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.44</b>	0.28	0.14	<b>0.070</b>	0.044	0.022	
994-05-8	tert-Amyl Methyl Ether	ND	1.4	0.14	ND	0.33	0.033	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.17</b>	0.28	0.14	<b>0.037</b>	0.060	0.030	<b>J</b>
75-27-4	<b>Bromodichloromethane</b>	<b>0.27</b>	0.28	0.14	<b>0.040</b>	0.042	0.021	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>0.69</b>	0.28	0.14	<b>0.13</b>	0.052	0.026	
123-91-1	<b>1,4-Dioxane</b>	<b>0.39</b>	1.4	0.17	<b>0.11</b>	0.39	0.047	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.4	0.21	ND	0.34	0.051	
142-82-5	<b>n-Heptane</b>	<b>0.44</b>	1.4	0.18	<b>0.11</b>	0.34	0.043	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.4	0.14	ND	0.31	0.032	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>1.4</b>	1.4	0.16	<b>0.34</b>	0.34	0.038	
10061-02-6	trans-1,3-Dichloropropene	ND	1.4	0.18	ND	0.31	0.039	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>5.6</b>	0.28	0.14	<b>1.0</b>	0.051	0.025	
108-88-3	<b>Toluene</b>	<b>8.4</b>	1.4	0.14	<b>2.2</b>	0.37	0.037	
591-78-6	<b>2-Hexanone</b>	<b>0.61</b>	1.4	0.21	<b>0.15</b>	0.34	0.052	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.28	0.19	ND	0.033	0.022	
106-93-4	1,2-Dibromoethane	ND	0.28	0.15	ND	0.036	0.020	
111-65-9	<b>n-Octane</b>	<b>0.63</b>	1.4	0.14	<b>0.13</b>	0.30	0.030	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>66</b>	0.28	0.14	<b>9.7</b>	0.041	0.021	
108-90-7	<b>Chlorobenzene</b>	<b>1.5</b>	0.28	0.14	<b>0.32</b>	0.060	0.031	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG53B-05D  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-013

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00043

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -1.6      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.39

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	3.3	1.4	0.17	0.75	0.32	0.040	
179601-23-1	m,p-Xylenes	16	1.4	0.36	3.7	0.32	0.083	
75-25-2	Bromoform	ND	1.4	0.21	ND	0.13	0.020	
100-42-5	Styrene	0.28	1.4	0.21	0.067	0.33	0.050	J
95-47-6	o-Xylene	5.2	1.4	0.18	1.2	0.32	0.040	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.28	0.18	ND	0.040	0.026	
98-82-8	Cumene	0.21	1.4	0.16	0.042	0.28	0.032	J
103-65-1	n-Propylbenzene	0.84	1.4	0.14	0.17	0.28	0.029	J
622-96-8	4-Ethyltoluene	1.5	1.4	0.16	0.31	0.28	0.032	
108-67-8	1,3,5-Trimethylbenzene	1.5	1.4	0.17	0.31	0.28	0.034	
98-83-9	alpha-Methylstyrene	ND	1.4	0.20	ND	0.29	0.042	
95-63-6	1,2,4-Trimethylbenzene	4.5	1.4	0.19	0.91	0.28	0.039	
100-44-7	Benzyl Chloride	ND	0.28	0.24	ND	0.054	0.046	
541-73-1	1,3-Dichlorobenzene	0.24	0.28	0.17	0.040	0.046	0.029	J
106-46-7	1,4-Dichlorobenzene	4.5	0.28	0.16	0.75	0.046	0.026	
135-98-8	sec-Butylbenzene	ND	1.4	0.16	ND	0.25	0.029	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.2	1.4	0.18	0.21	0.25	0.033	J
95-50-1	1,2-Dichlorobenzene	0.30	0.28	0.18	0.049	0.046	0.031	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.4	0.21	ND	0.14	0.022	
120-82-1	1,2,4-Trichlorobenzene	2.0	0.28	0.21	0.27	0.037	0.028	
91-20-3	Naphthalene	7.2	0.56	0.21	1.4	0.11	0.039	B
87-68-3	Hexachlorobutadiene	5.6	0.28	0.25	0.52	0.026	0.023	
98-06-6	tert-Butylbenzene	ND	0.56	0.14	ND	0.10	0.025	
104-51-8	n-Butylbenzene	1.0	0.56	0.14	0.19	0.10	0.025	

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

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

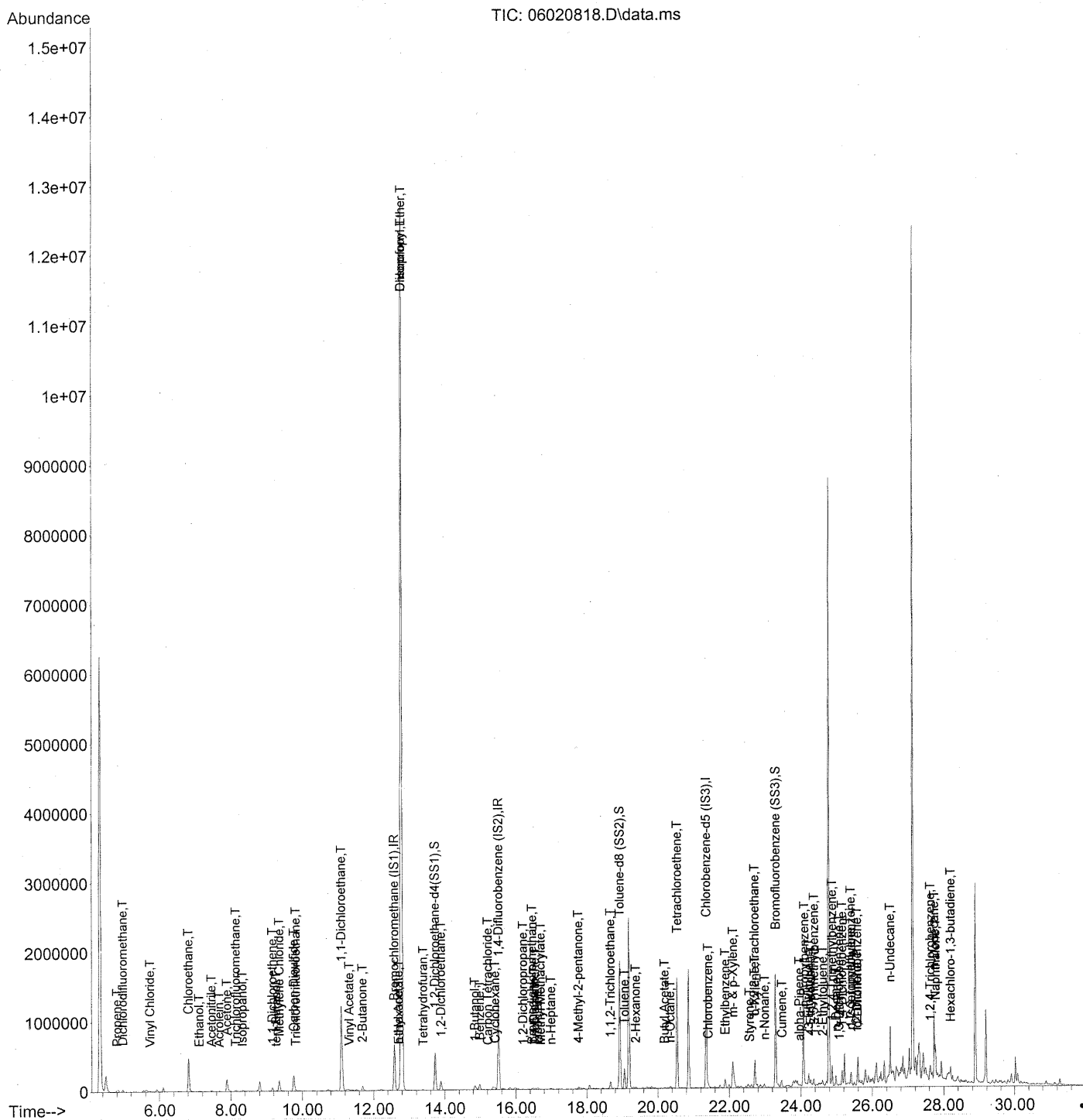
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:   lat        Date:   6/10/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5) ✓  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
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 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	355603	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1517332	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	719424	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	543108	22.042	ng	0.00
Spiked Amount	25.000		Recovery	= 88.16% ✓		
57) Toluene-d8 (SS2)	18.93	98	1577991	24.423	ng	0.00
Spiked Amount	25.000		Recovery	= 97.68% ✓		
73) Bromofluorobenzene (SS3)	23.29	174	642351	24.448	ng	0.00
Spiked Amount	25.000		Recovery	= 97.80% ✓		

## Target Compounds

					Qvalue
2) Propene	4.80	42	10538	0.375 ng	# 79
3) Dichlorodifluoromethane	4.97	85	35532	0.686 ng	98
4) Chloromethane	5.30	50	857	N.D. ✓	
5) Freon 114	5.52	135	564	N.D. ✓	
6) Vinyl Chloride	5.73	62	6005	0.179 ng	96
7) 1,3-Butadiene	6.01	54	230	N.D.	
8) Bromomethane	6.48	94	621	N.D. ✓	
9) Chloroethane	6.81	64	593265	37.237 ng	95
10) Ethanol	7.11	45	16816	0.899 ng	92
11) Acetonitrile	7.46	41	15222	0.282 ng	89
12) Acrolein	7.67	56	4504	0.337 ng	76
13) Acetone	7.89	58	88270	4.611 ng	M# 67
14) Trichlorofluoromethane	8.14	101	17169	0.387 ng	98
15) Isopropanol	8.33	45	29012	0.475 ng	95
16) Acrylonitrile	8.62	53	61	N.D. ✓	
17) 1,1-Dichloroethene	9.16	96	25591	1.310 ng	# 74
18) tert-Butanol	9.27	59	25998m	0.501 ng	
19) Methylene Chloride	9.36	84	94154	4.401 ng	# 76
20) Allyl Chloride	9.56	41	182	N.D. ✓	
21) Trichlorotrifluoroethane	9.82	151	3574	0.177 ng	89
22) Carbon Disulfide	9.76	76	513957	6.331 ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D. ✓	
24) 1,1-Dichloroethane	11.10	63	1719037	46.307 ng	95
25) Methyl tert-Butyl Ether	11.23	73	2221	N.D. ✓	
26) Vinyl Acetate	11.31	86	5513	1.558 ng	# 1
27) 2-Butanone	11.68	72	24504	1.754 ng	# 92
28) cis-1,2-Dichloroethene	12.35	61	65	N.D. ✓	
29) Diisopropyl Ether	12.79	87	1670131	<del>97.554 ng</del>	M# 1
30) Ethyl Acetate	12.70	61	2101	0.279 ng	# 62
31) n-Hexane	12.70	57	10459	0.275 ng	# 71

9/06/07/08

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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.79	83	14462664	<del>446.012</del> ng	<i>See det.</i>	96
34) Tetrahydrofuran	13.39	72	1383	0.104	ng #	42
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	145401	4.641	ng	97
38) 1,1,1-Trichloroethane	14.27	97	587	N.D. ✓		
39) Isopropyl Acetate	14.96	61	312	N.D.		
40) 1-Butanol	14.84	56	63698	3.054	ng	88
41) Benzene	14.99	78	96915	1.220	ng	99
42) Carbon Tetrachloride	15.21	117	4874	0.159	ng	94
43) Cyclohexane	15.41	84	15477	0.501	ng #	64
44) tert-Amyl Methyl Ether	15.88	73	154	N.D. ✓		
45) 1,2-Dichloropropane	16.20	63	1317	0.062	ng	80
46) Bromodichloromethane	16.46	83	2616	0.097	ng	77
47) Trichloroethene	16.53	130	6043	0.248	ng	98
48) 1,4-Dioxane	16.51	88	2088	0.139	ng	82
49) Isooctane	16.62	57	23644	0.260	ng #	56
50) Methyl Methacrylate	16.70	100	355	<del>0.045</del> ng	#	1
51) n-Heptane	16.99	71	3350	0.159	ng #	83
52) cis-1,3-Dichloropropene	17.83	75	119	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	10541	0.500	ng	73
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.67	97	39536	2.014	ng	99
58) Toluene	19.06	91	266856	3.038	ng	98
59) 2-Hexanone	19.37	43	13397	0.221	ng #	72
60) Dibromochloromethane	19.59	129	180	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	8261	0.134	ng	97
63) n-Octane	20.35	57	4394	0.226	ng	96
64) Tetrachloroethene	20.54	166	614828	23.658	ng	100
65) Chlorobenzene	21.40	112	31611	0.537	ng	98
66) Ethylbenzene	21.88	91	118272	1.174	ng	93
67) m- & p-Xylene	22.10	91	386094	5.732	ng	94
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	6154	0.102	ng	97
70) o-Xylene	22.71	91	135931	1.869	ng	99
71) n-Nonane	22.98	43	24688	0.478	ng	84
72) 1,1,2,2-Tetrachloroethane	22.71	83	1660	<del>0.055</del> ng	#	1
74) Cumene	23.47	105	7139	0.074	ng	98
75) alpha-Pinene	23.96	93	11299	0.226	ng	89
76) n-Propylbenzene	24.10	91	37151	0.302	ng #	1
77) 3-Ethyltoluene	24.22	105	111886	1.086	ng	100
78) 4-Ethyltoluene	24.28	105	52241	0.544	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	46941	0.541	ng	100

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 Acq On : 2 Jun 2008 9:46 pm  
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 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1791	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	42153	0.404	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	142328	1.610	ng	88
83) n-Decane	24.98	57	57049	1.173	ng	76
84) Benzyl Chloride	25.04	91	970	N.D.	✓	
85) 1,3-Dichlorobenzene	25.07	146	4813	0.087	ng	95
86) 1,4-Dichlorobenzene	25.16	146	86322	1.612	ng	100
87) sec-Butylbenzene	25.21	105	3637	N.D.	✓	
88) p-Isopropyltoluene	25.39	119	39339	0.423	ng	89
89) 1,2,3-Trimethylbenzene	25.40	105	51362	0.594	ng	94
90) 1,2-Dichlorobenzene	25.57	146	5591	0.107	ng	98
91) d-Limonene	25.58	68	13425	0.381	ng	# 63
92) 1,2-Dibromo-3-Chloropr...	26.24	157	475	N.D.	✓	
93) n-Undecane	26.50	57	334442	6.572	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	28098	0.732	ng	94
95) Naphthalene	27.77	128	301063	2.583	ng	95
96) n-Dodecane	27.73	57	320766	6.338	ng	84
97) Hexachloro-1,3-butadiene	28.19	225	51088	1.999	ng	98

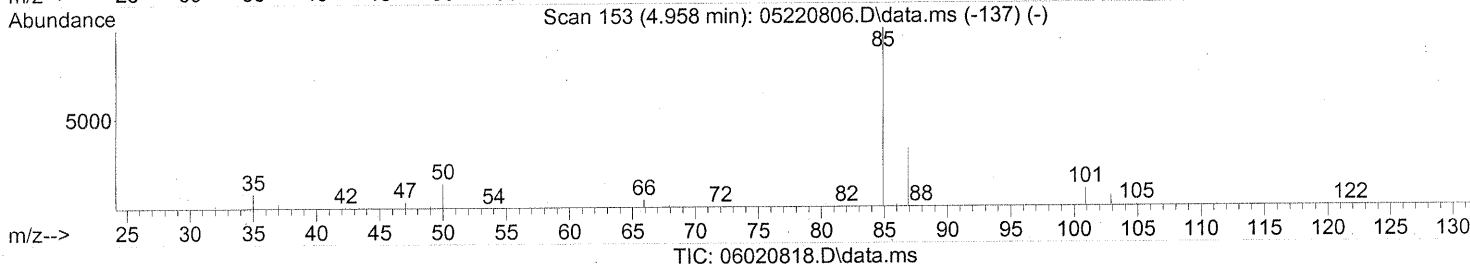
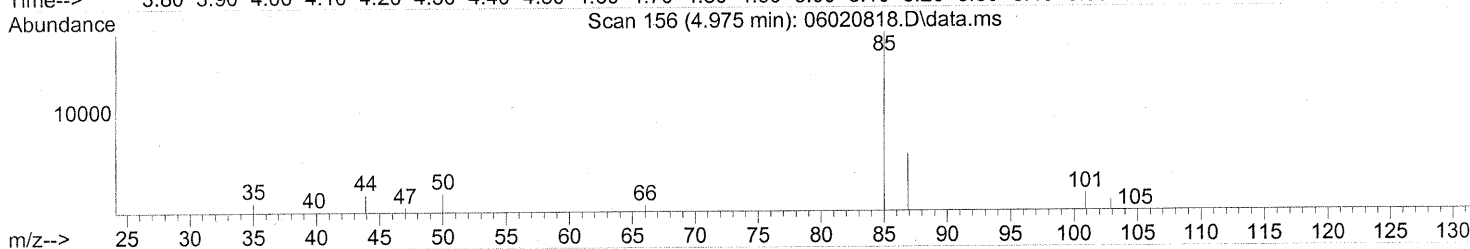
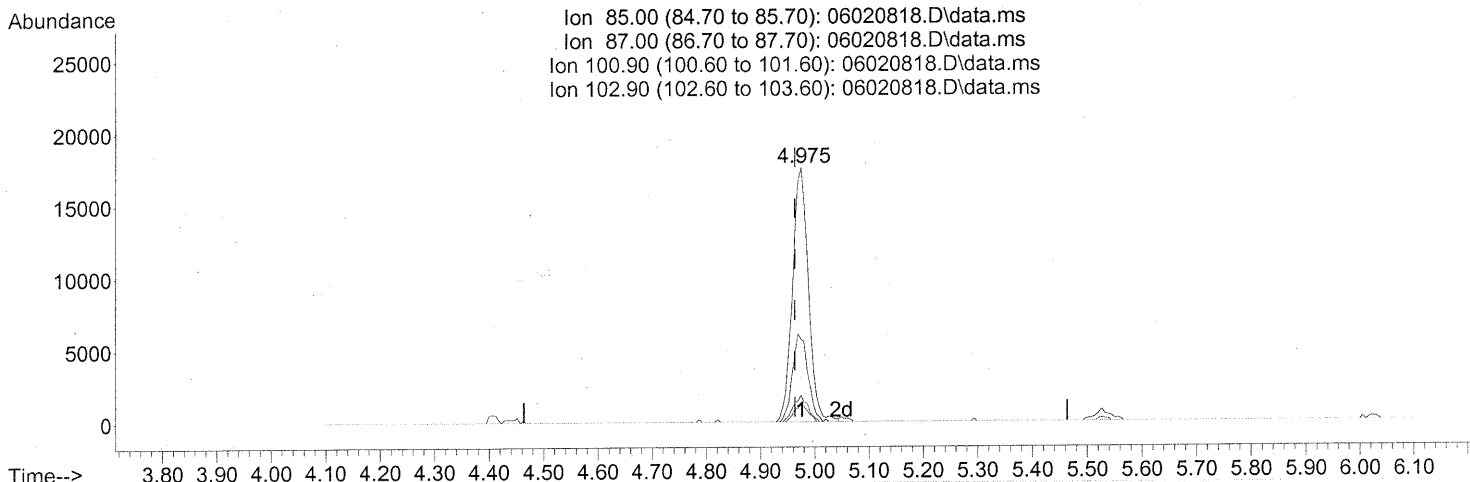
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Podolost*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.975min (+0.011) 0.69ng

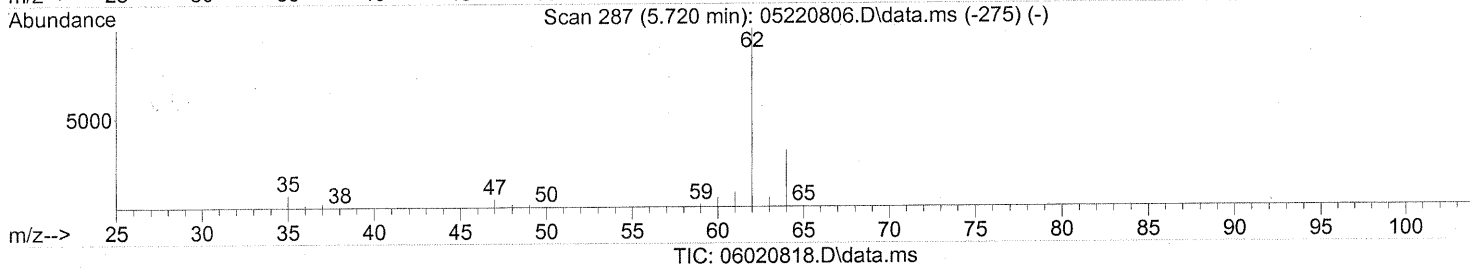
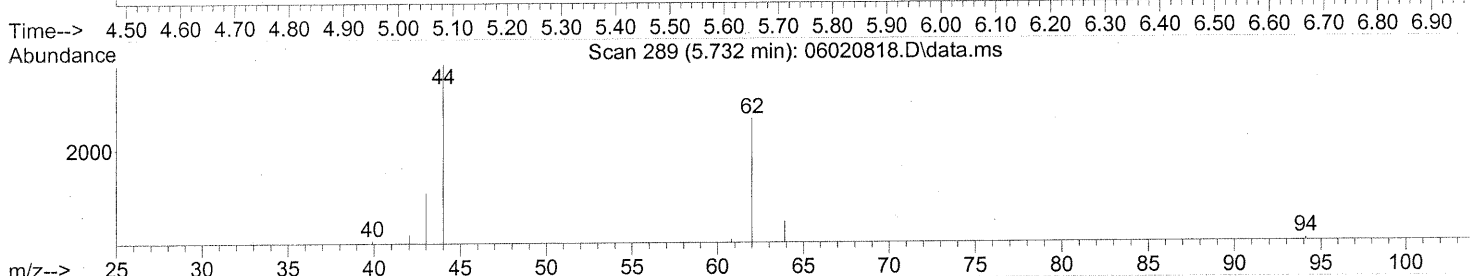
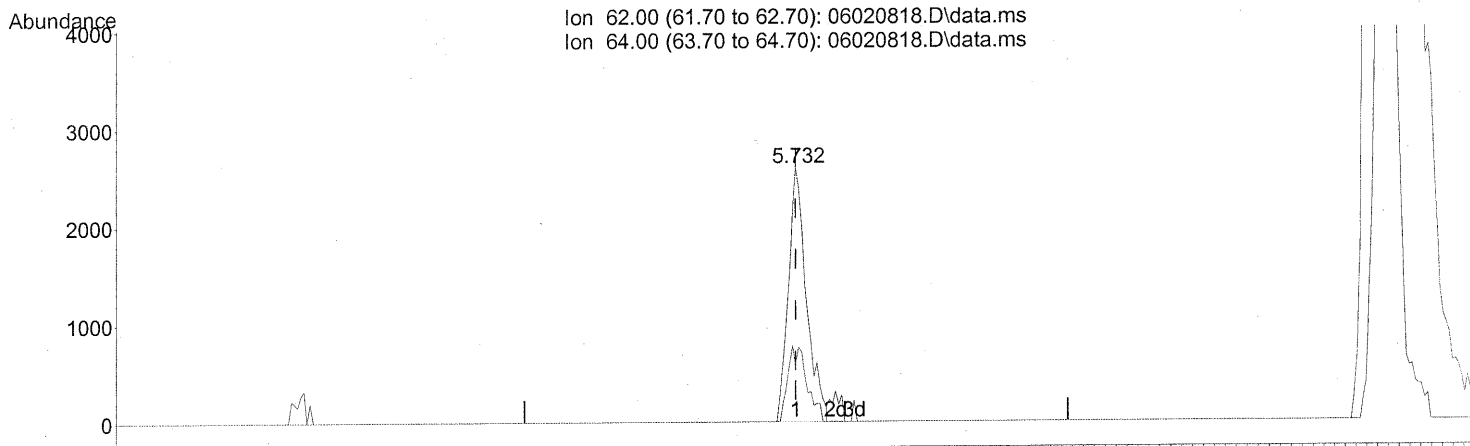
response 35532

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	33.77
100.90	9.30	9.34
102.90	6.00	5.83

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(6) Vinyl Chloride (T)  
 5.732min (-0.000) 0.18ng  
 response 6005

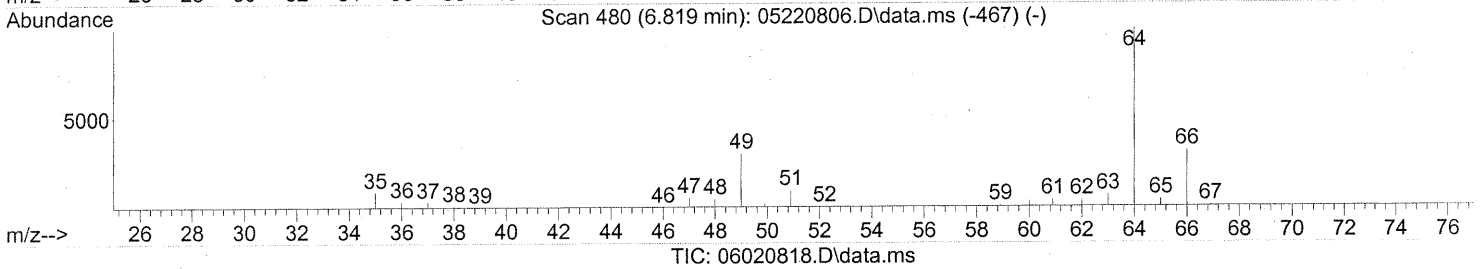
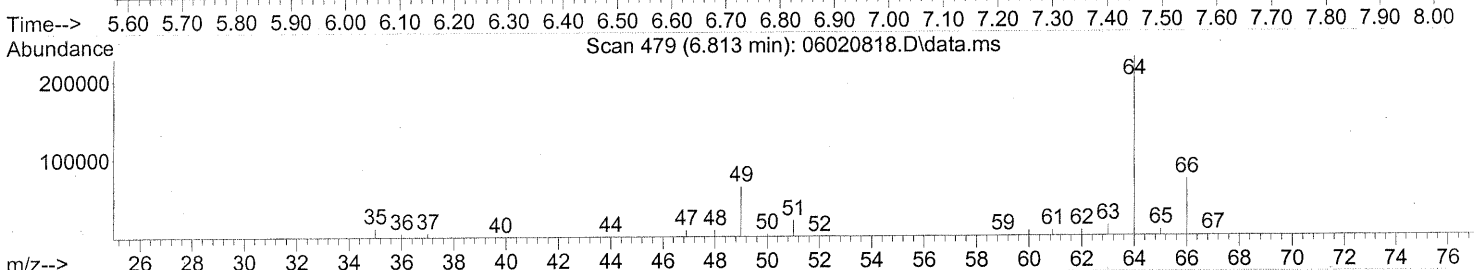
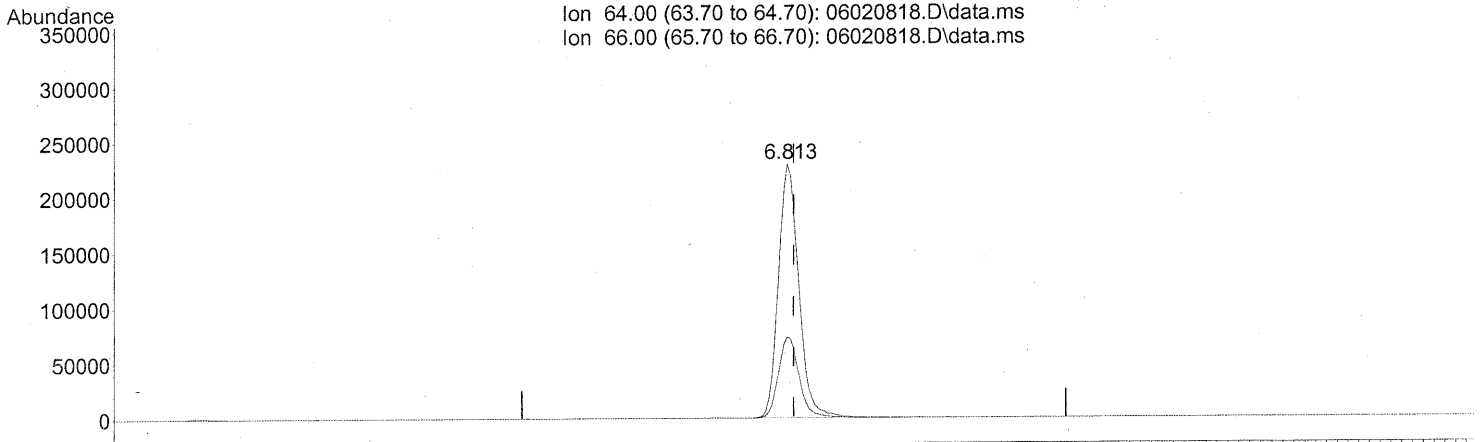
Ion	Exp%	Act%
62.00	100	100
64.00	29.30	31.49
0.00	0.00	0.00
0.00	0.00	0.00



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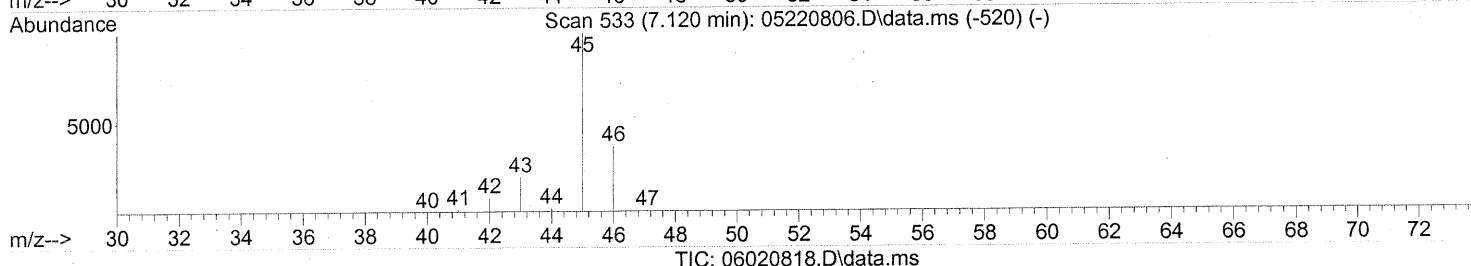
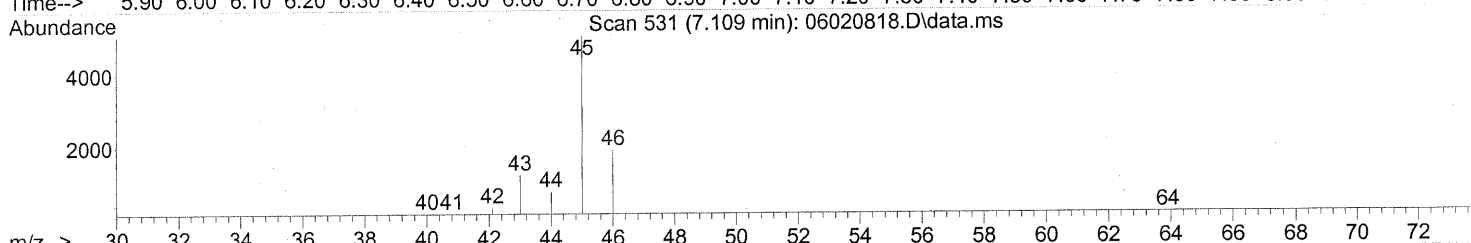
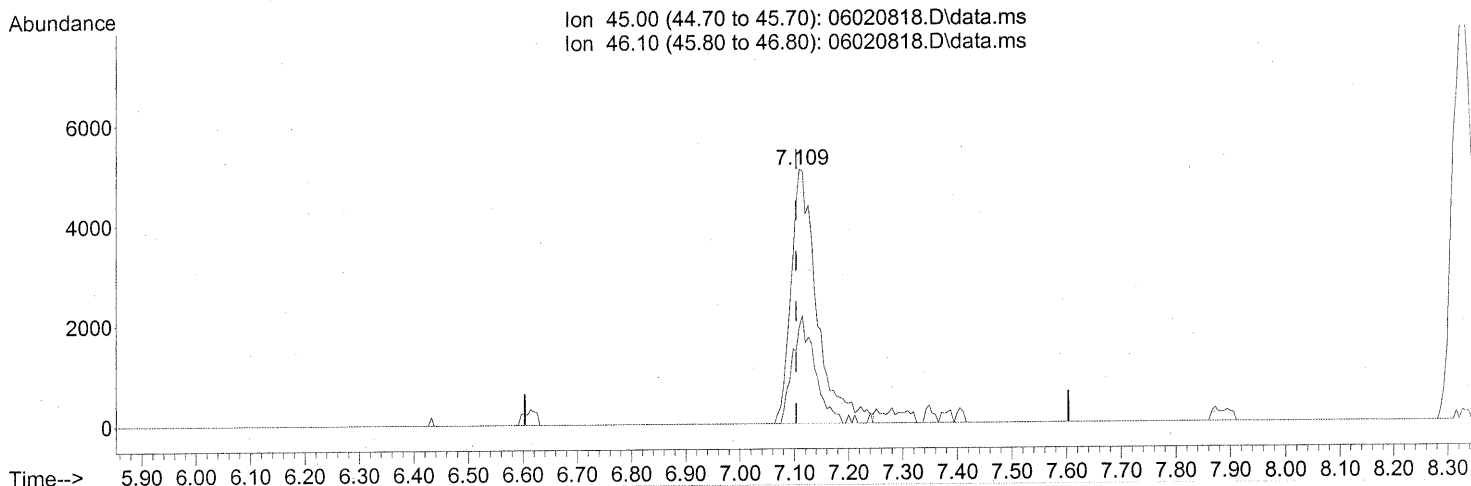
(9) Chloroethane (T)  
 6.813min (-0.011) 37.24ng  
 response 593265

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	32.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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(10) Ethanol (T)

7.109min (+0.006) 0.90ng

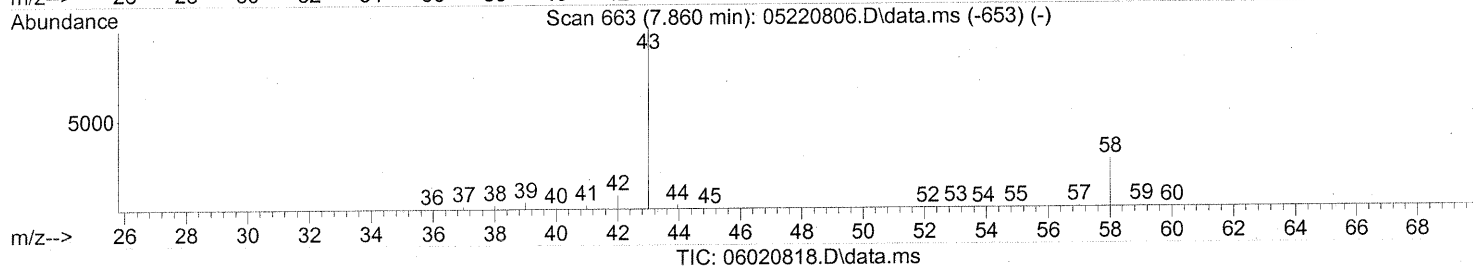
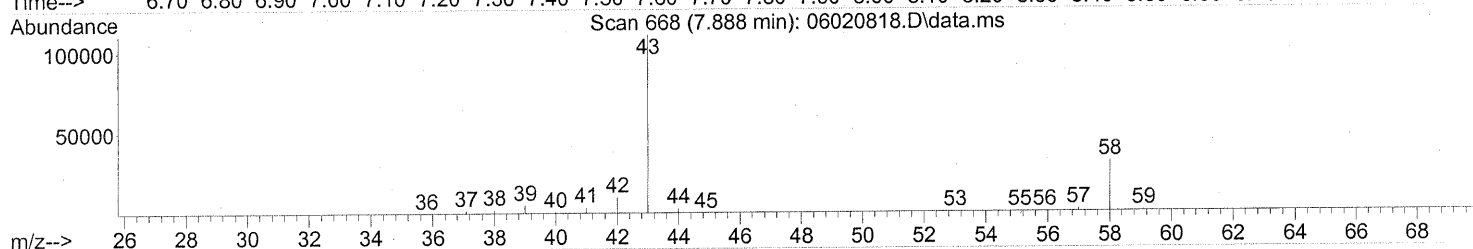
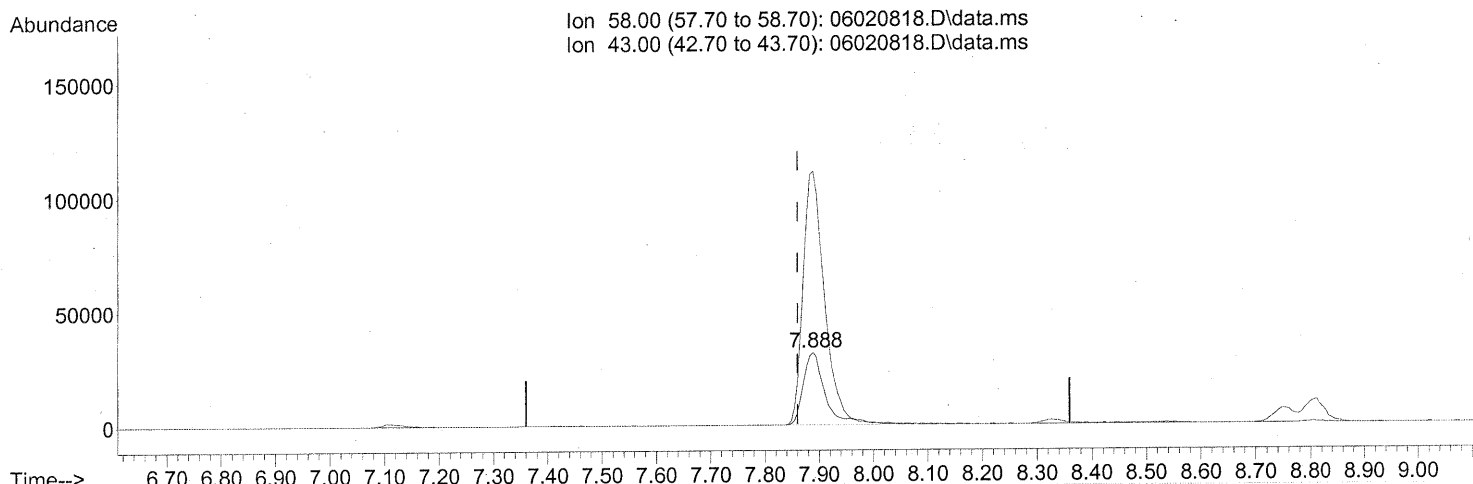
response 16816

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.23
0.00	0.00	0.00
0.00	0.00	0.00

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Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



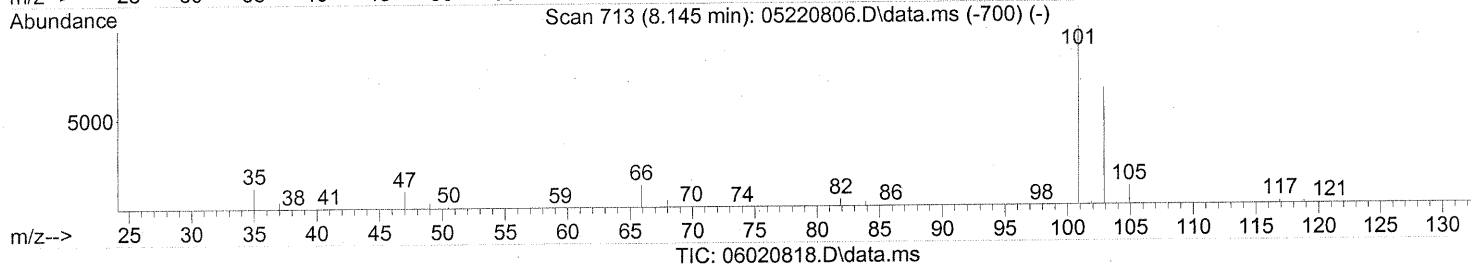
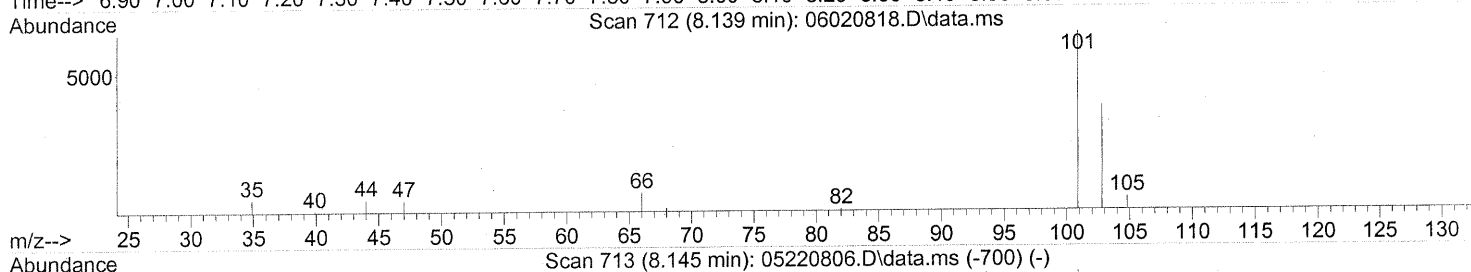
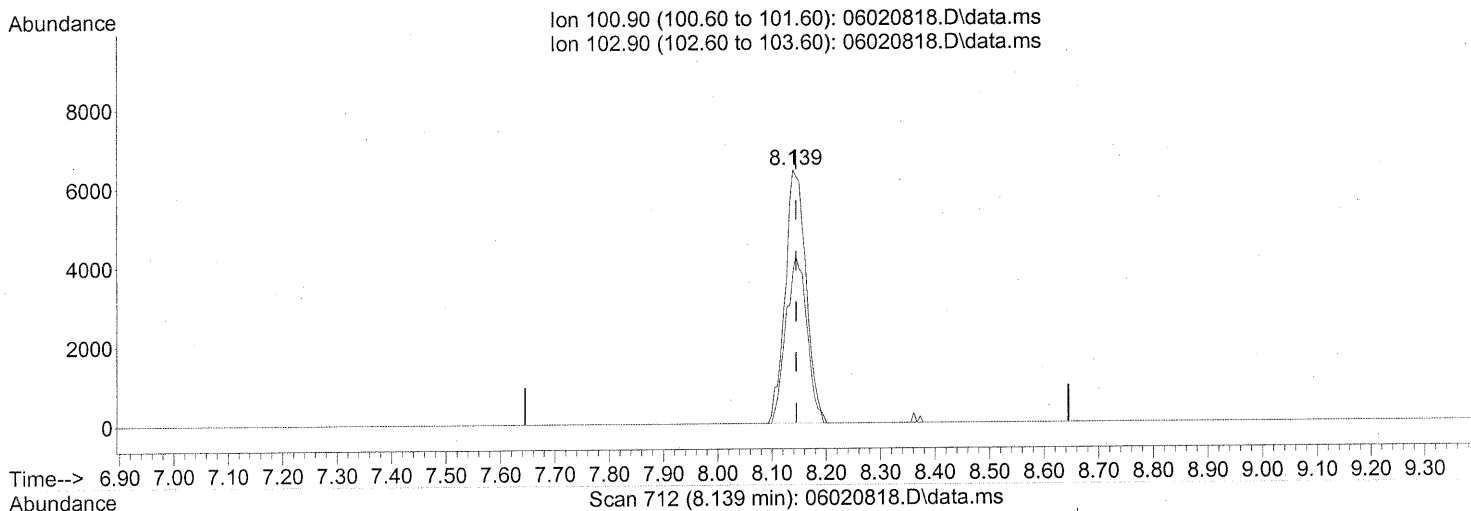
(13) Acetone (T)  
 7.888min (+0.028) 4.61ng  
 response 88270

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	345.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 0.39ng

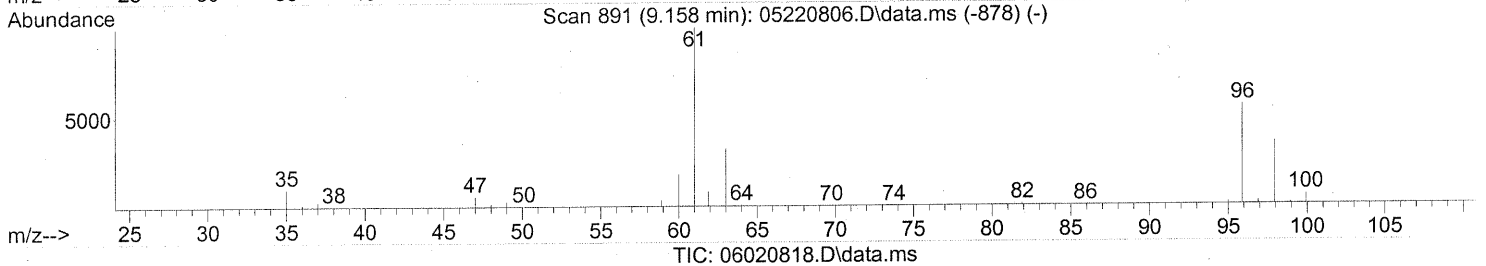
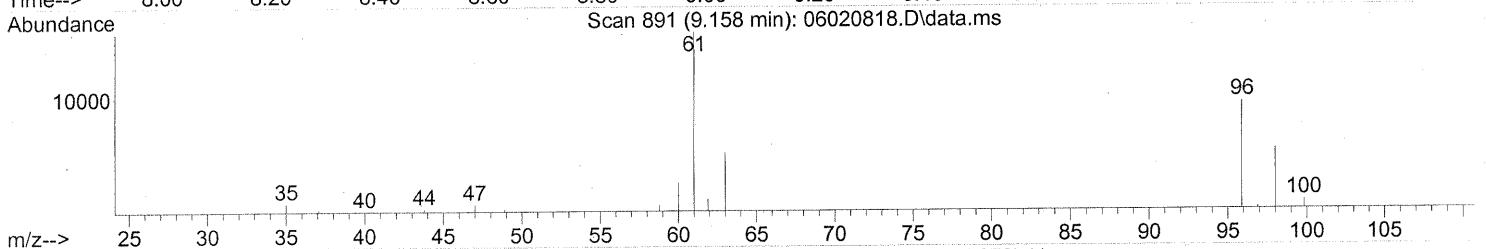
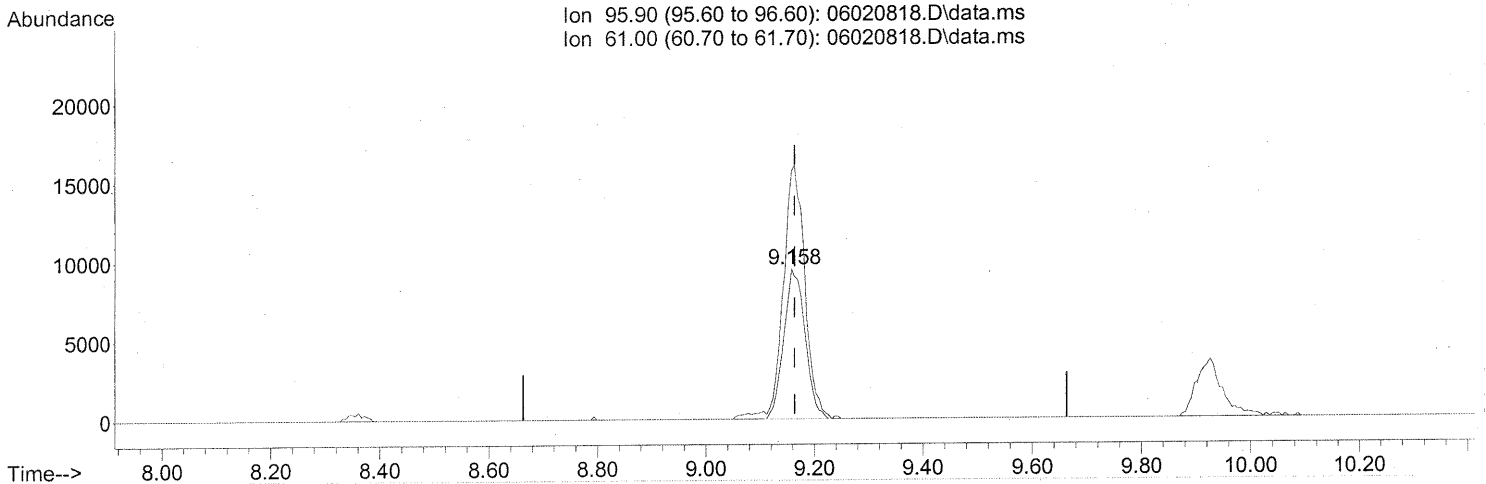
response 17169

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	66.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.158min (-0.006) 1.31ng

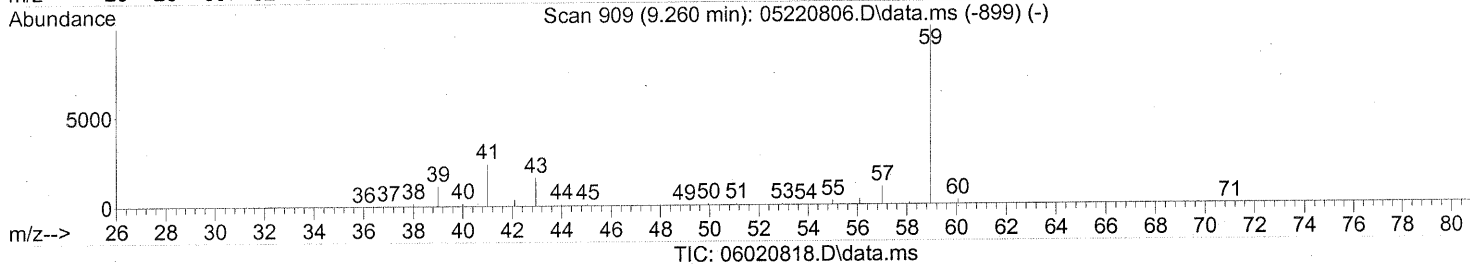
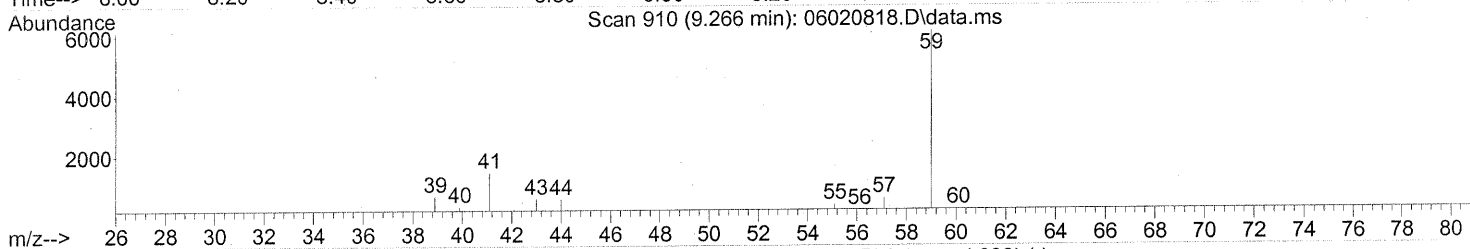
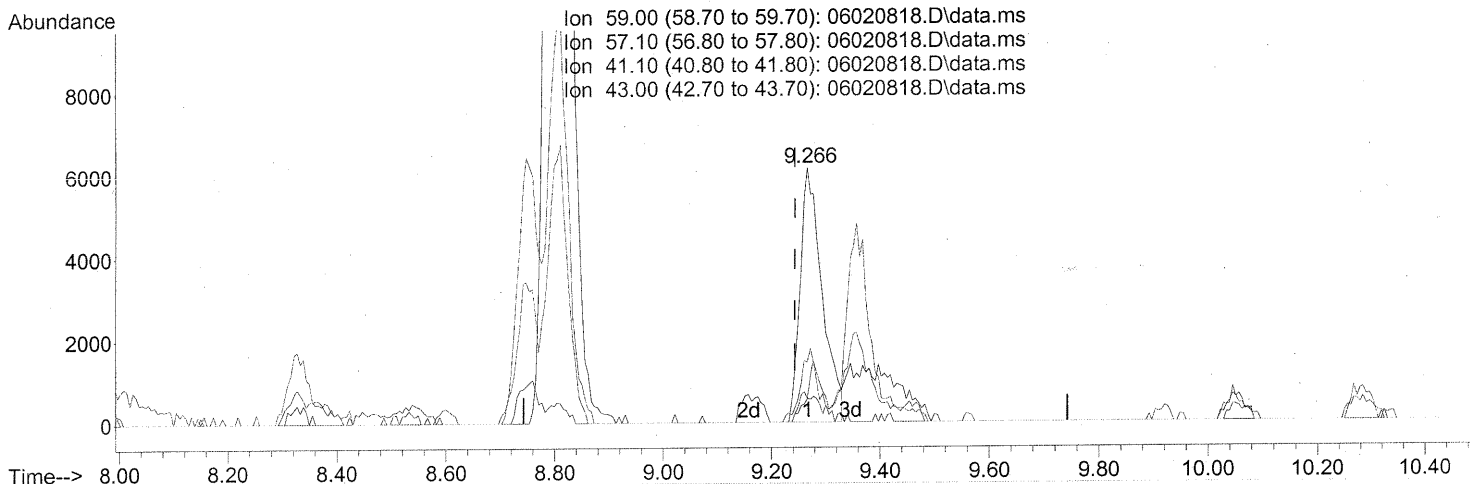
response 25591

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	170.17#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.33ng  
 response 17207

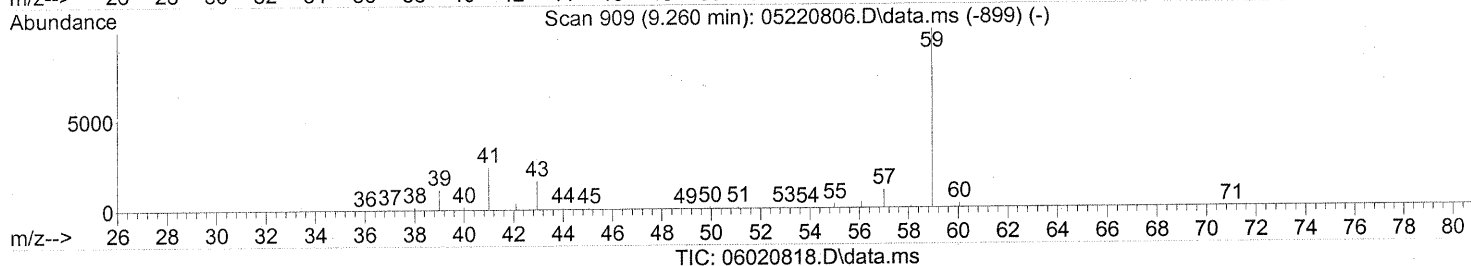
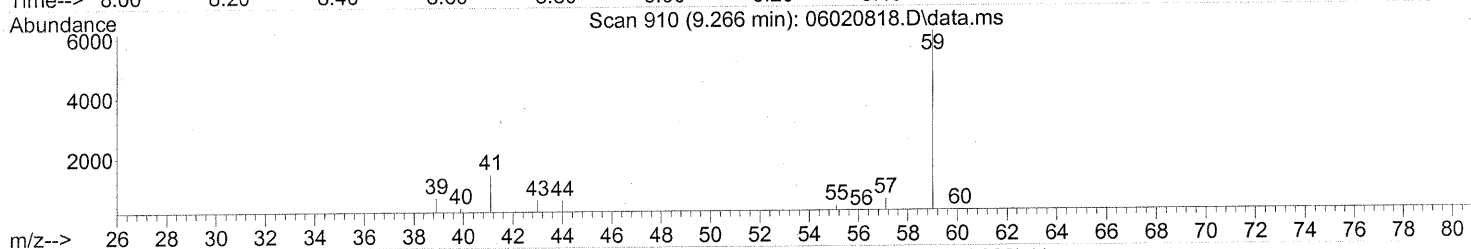
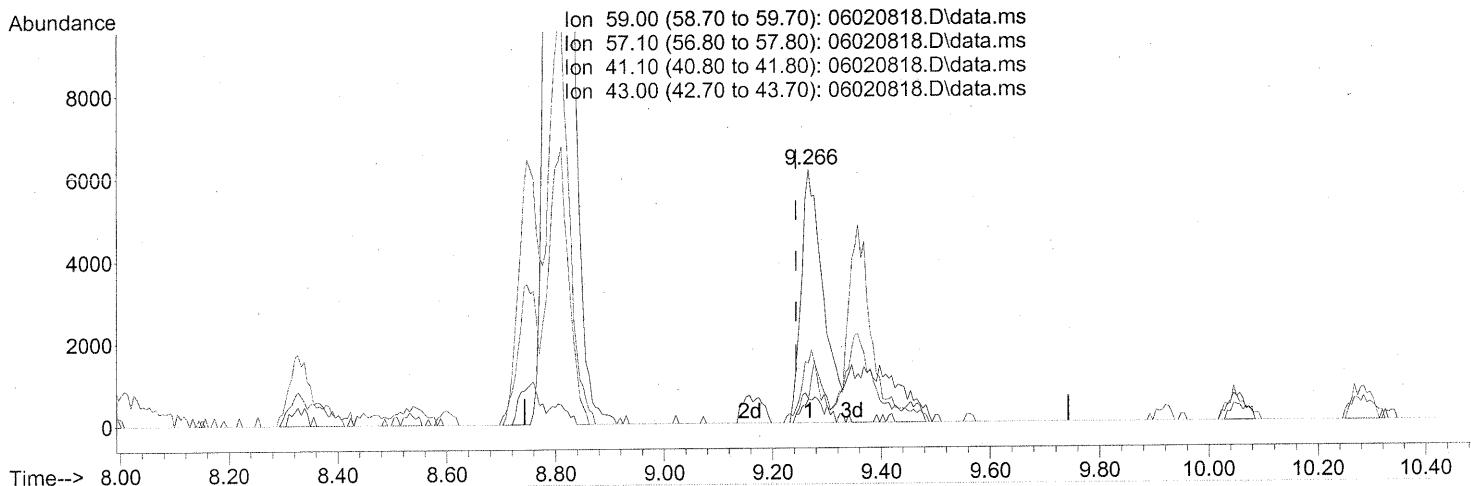
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	9.97
41.10	20.10	24.57
43.00	12.30	15.96

TAILING/SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:23:22 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.50ng m  
 response 25998

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	6.60
41.10	20.10	16.26
43.00	12.30	10.56

INT. THE WHOLE PEAK

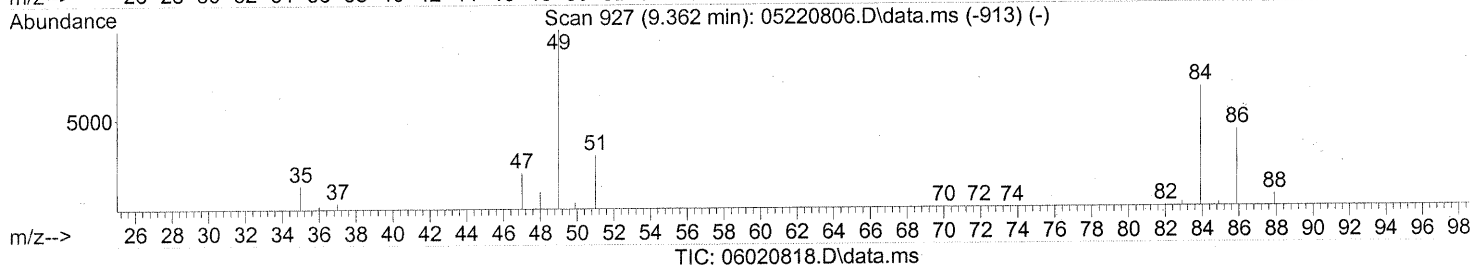
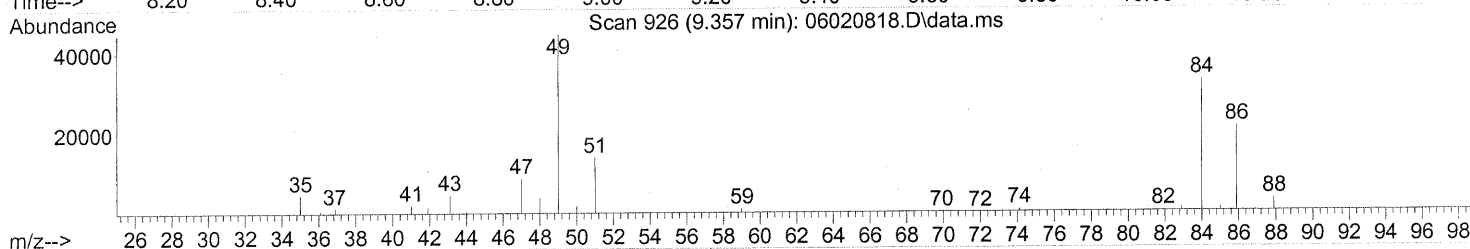
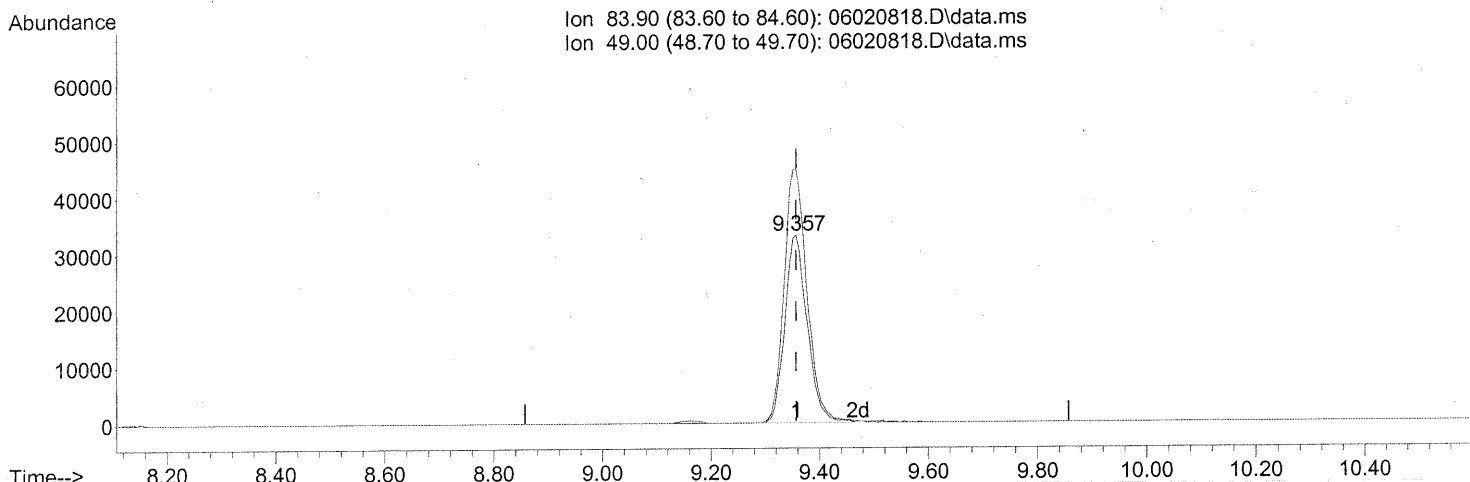
6/7/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 4.40ng

response 94154

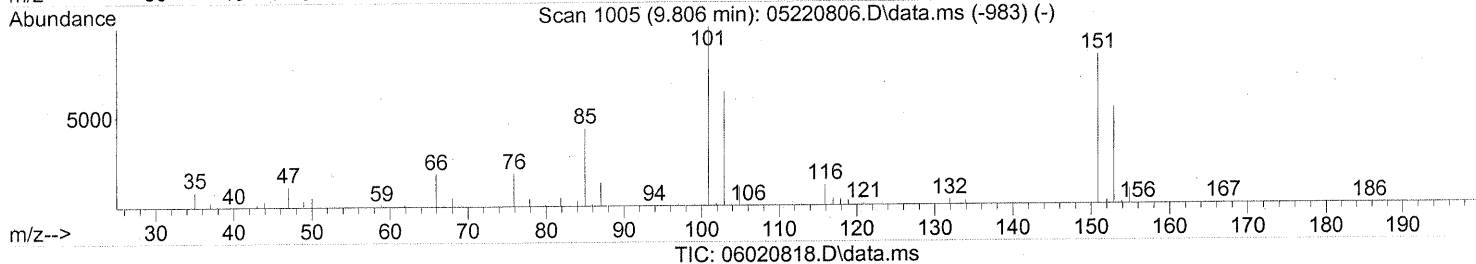
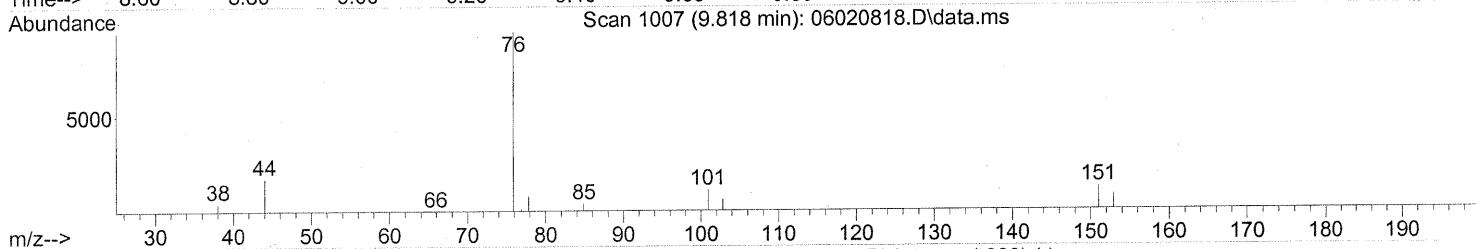
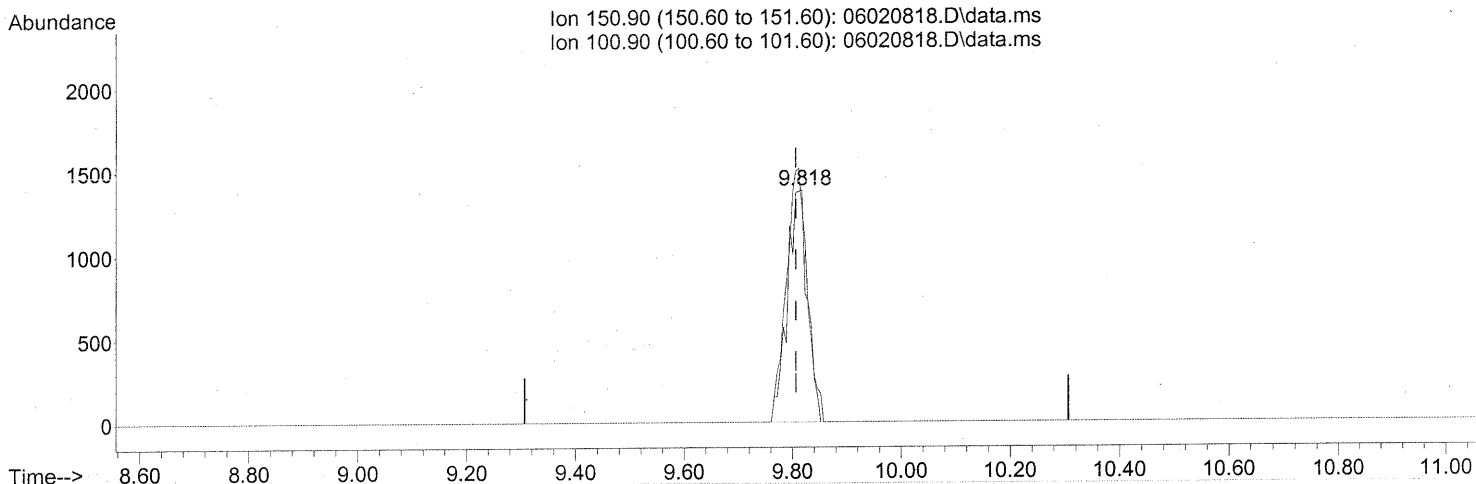
Ion	Exp%	Act%
83.90	100	100
49.00	172.90	139.83#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.18ng

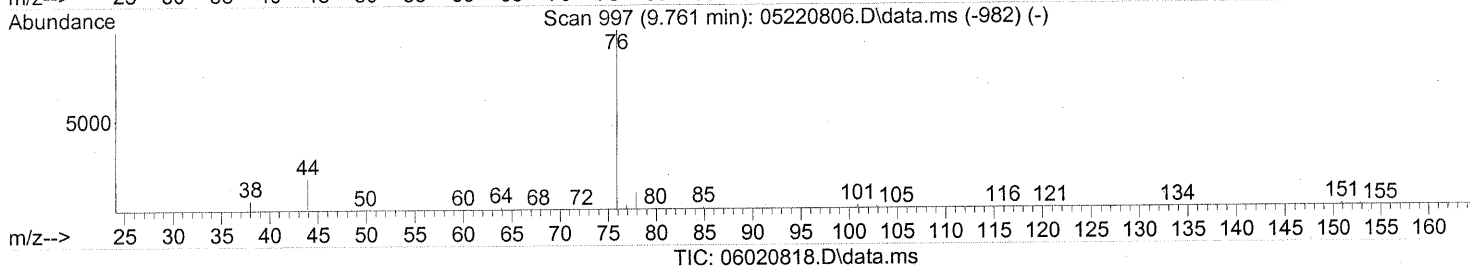
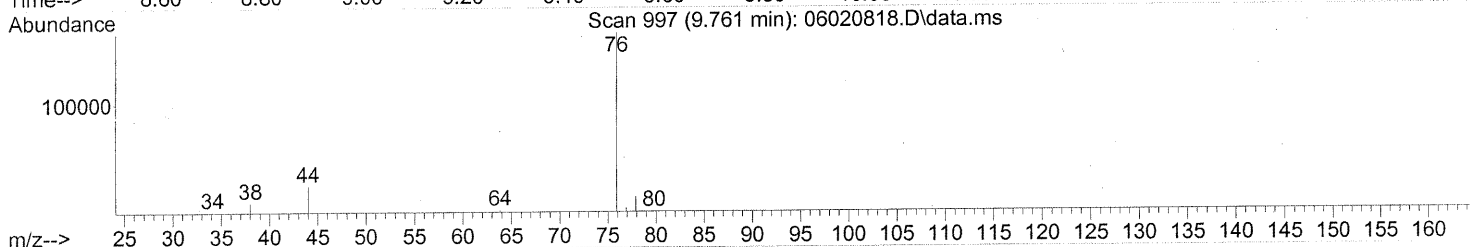
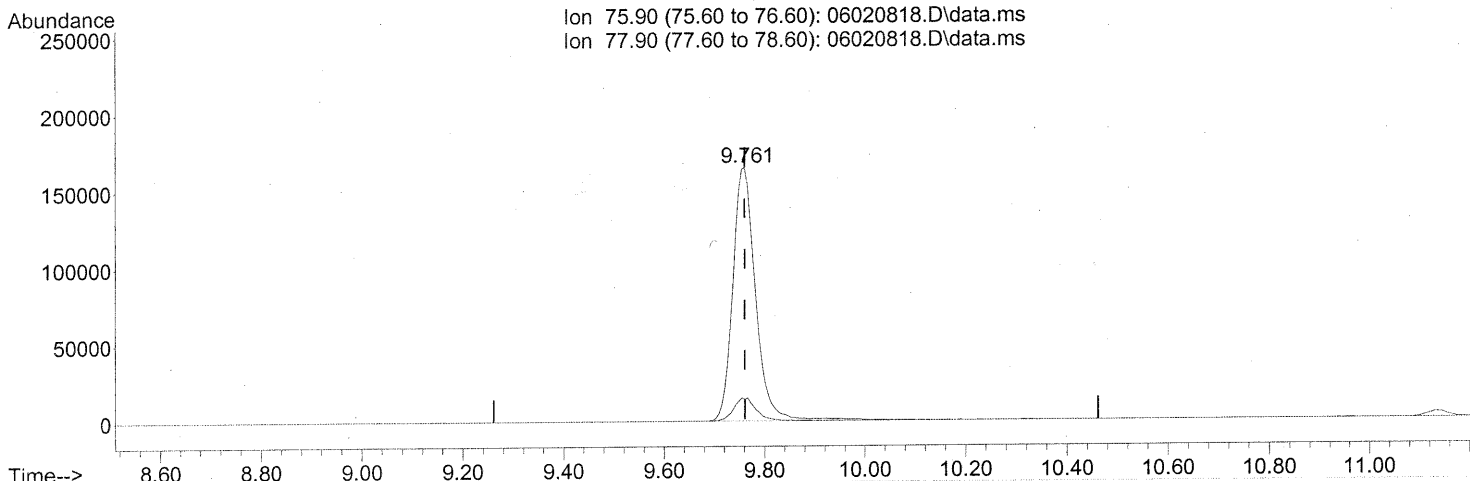
response 3574

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	114.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020818.D  
Acq On : 2 Jun 2008 9:46 pm  
Operator : RTB  
Sample : P0801548-013 (500mL)  
Misc : ENSR SG53B-05D (-1.6, 3.5)  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.761min (-0.000) 6.33ng

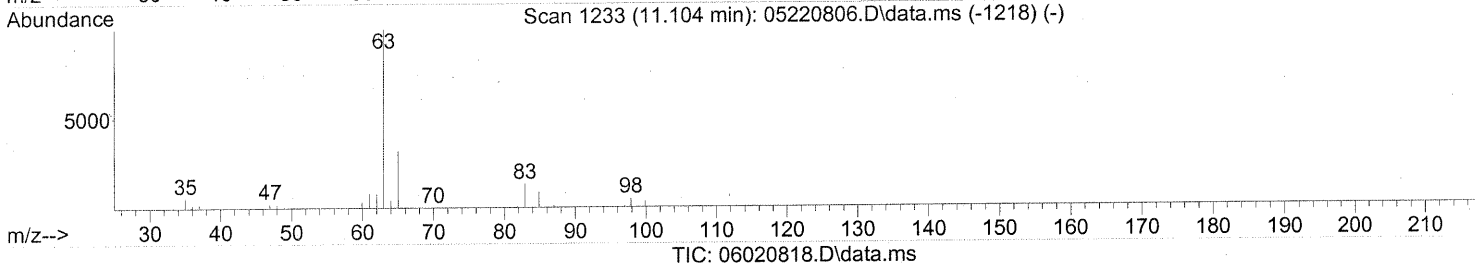
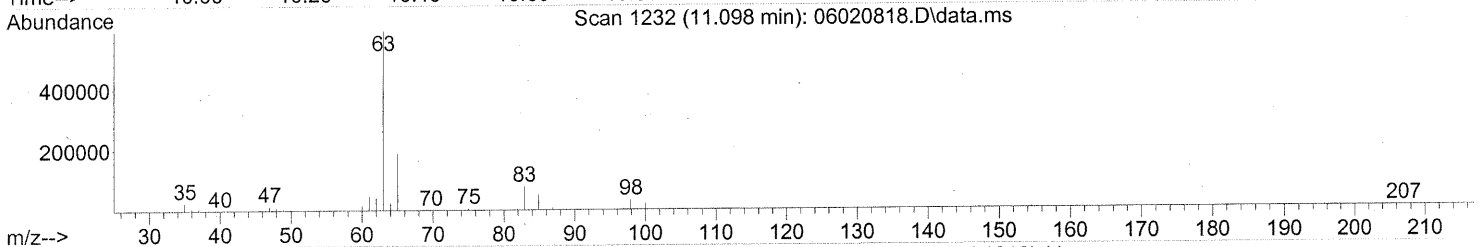
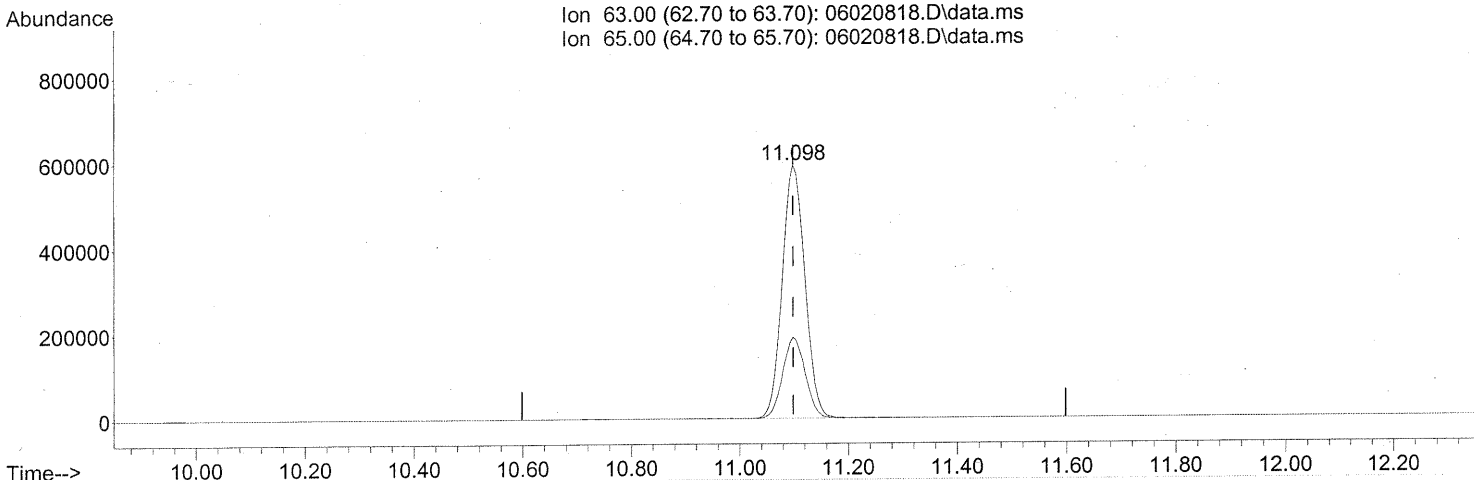
response 513957

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.098min (-0.000) 46.31ng

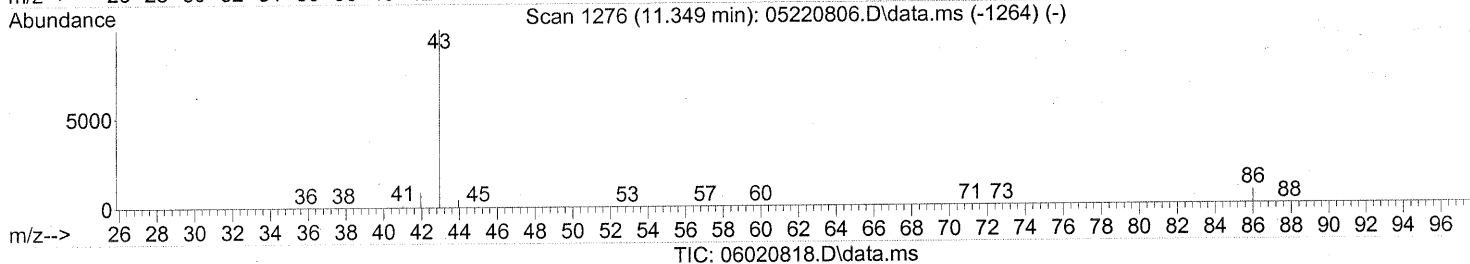
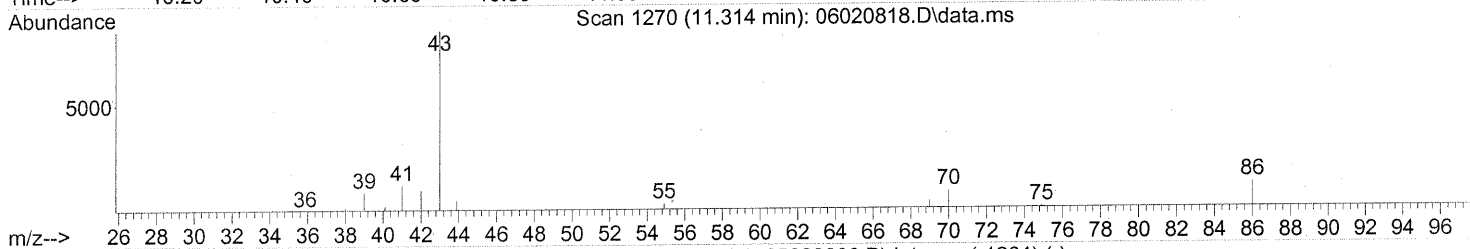
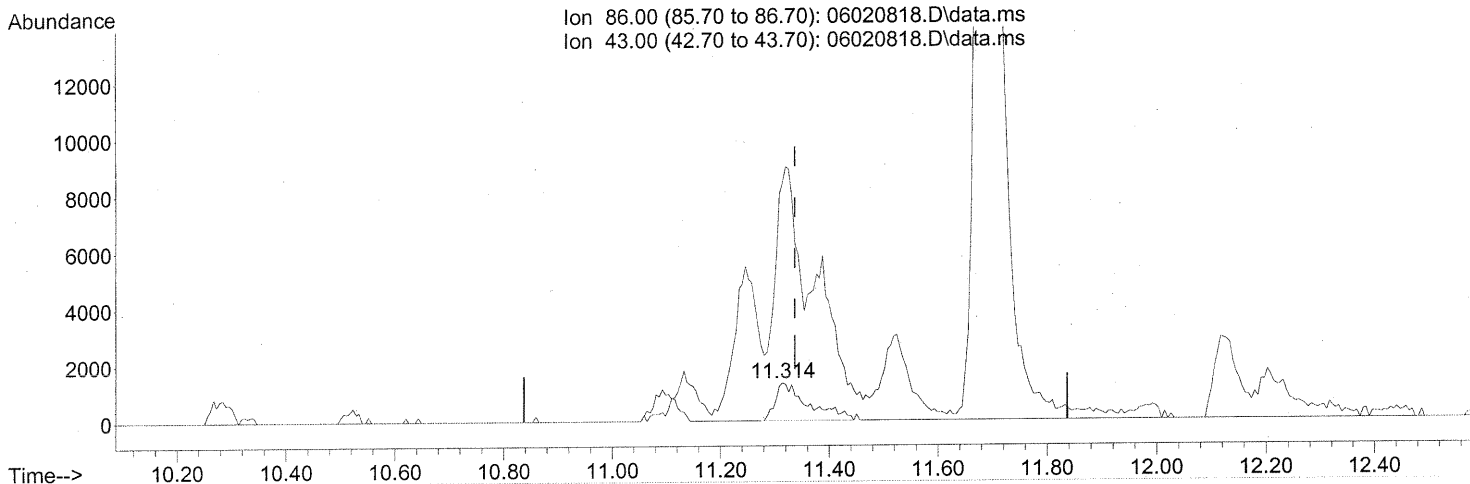
response 1719037

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	31.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)  
 11.314min (-0.023) 1.56ng

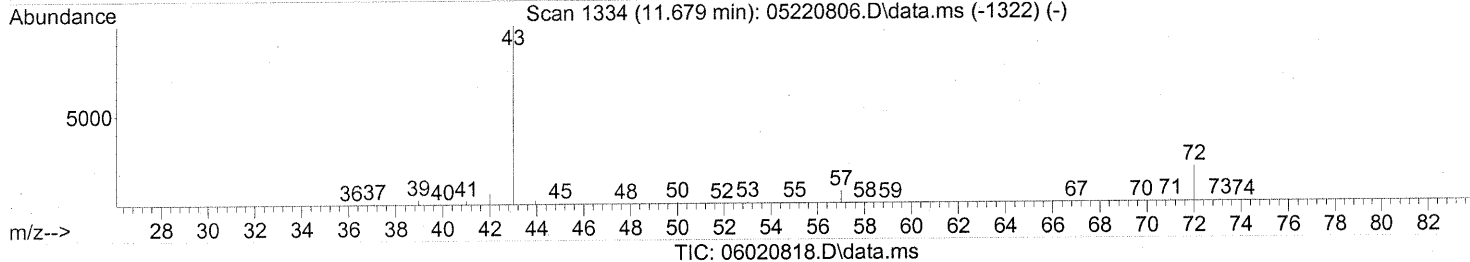
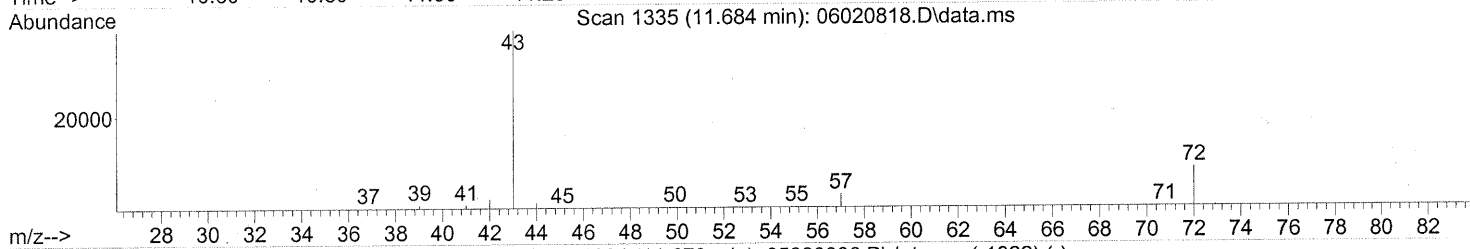
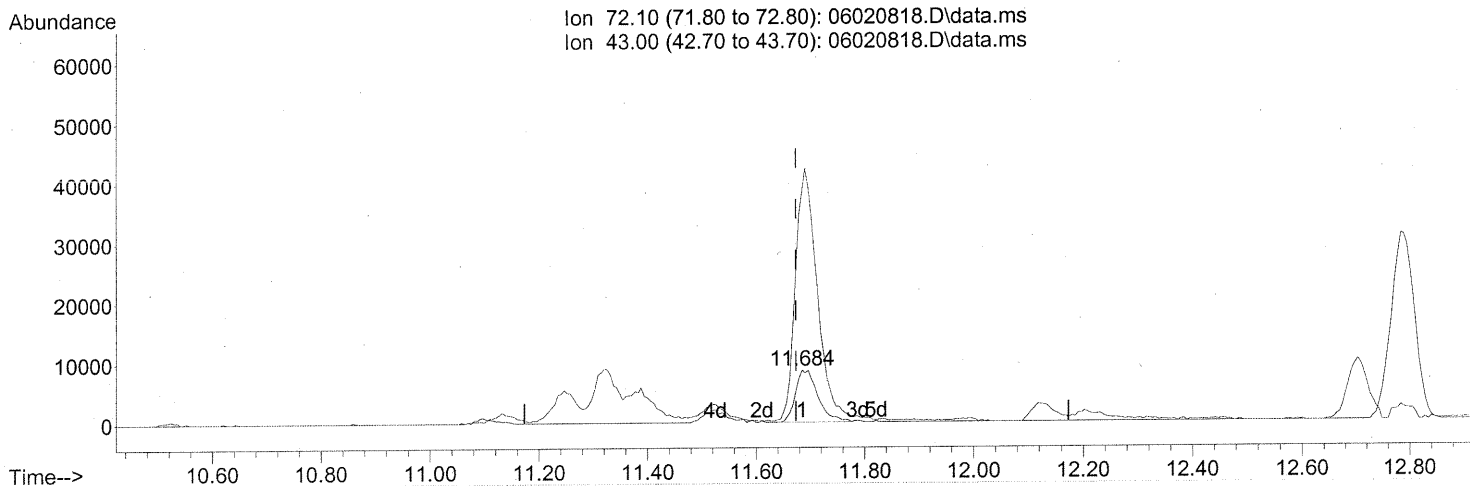
response 5513

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	821.89#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.684min (+0.011) 1.75ng

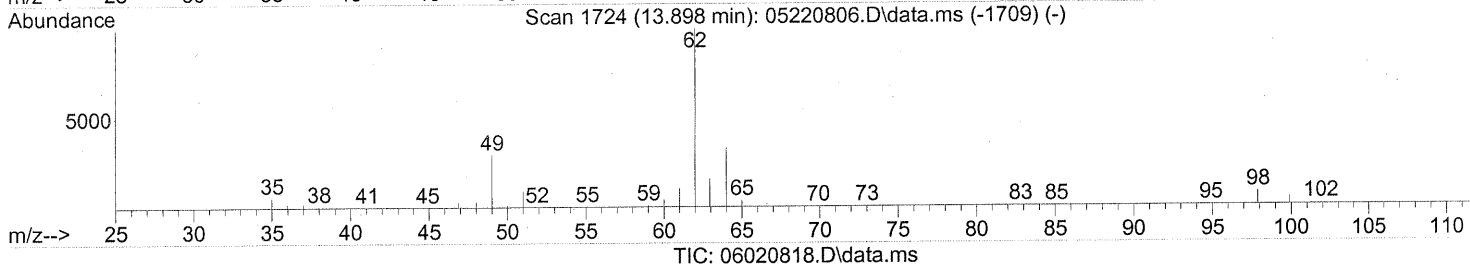
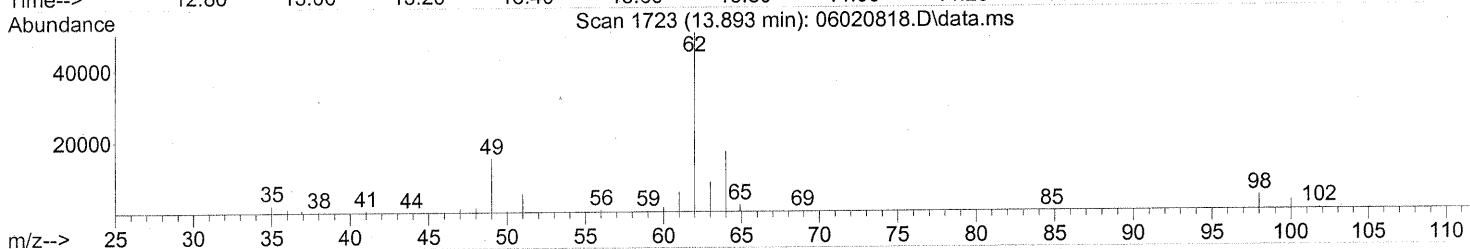
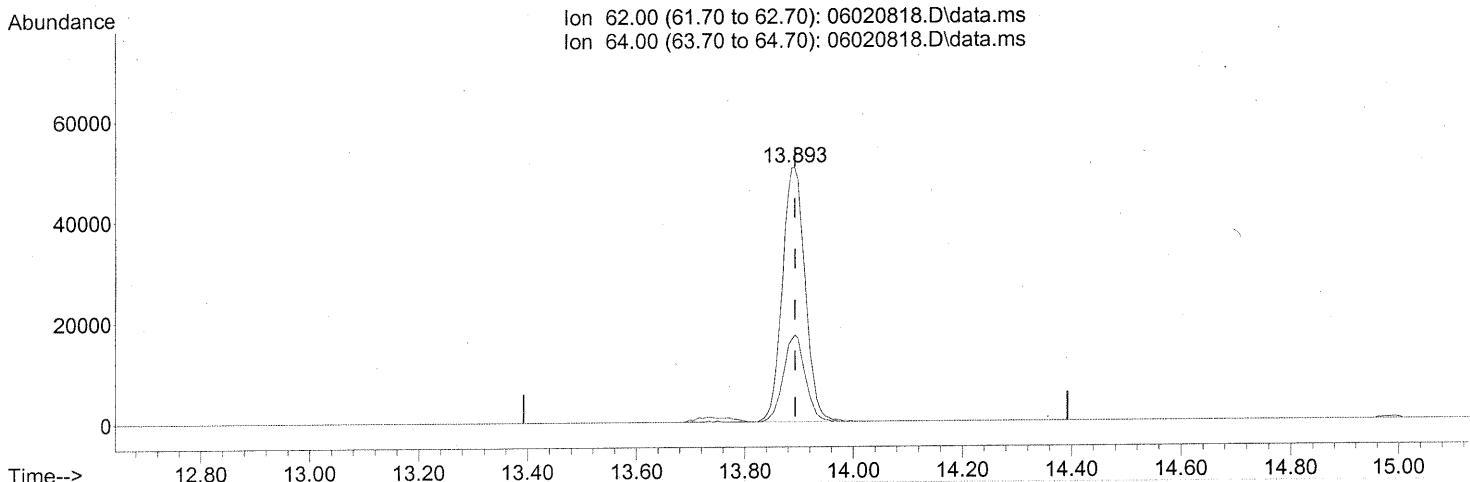
response 24504

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	484.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.893min (-0.000) 4.64ng

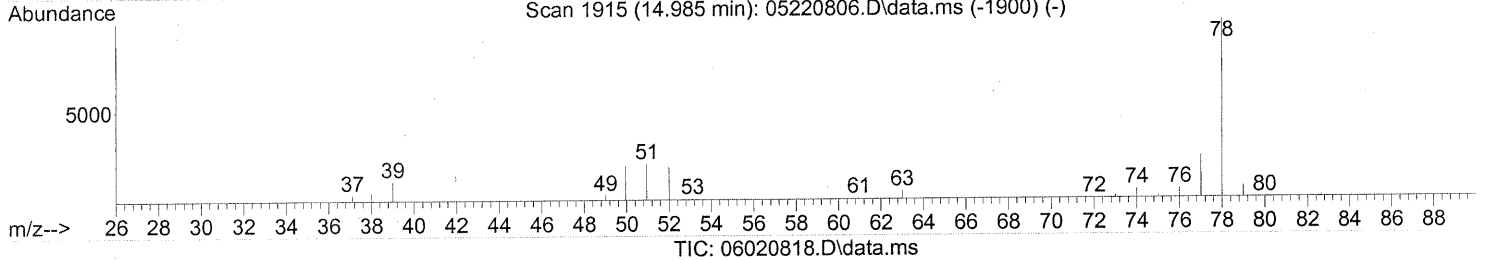
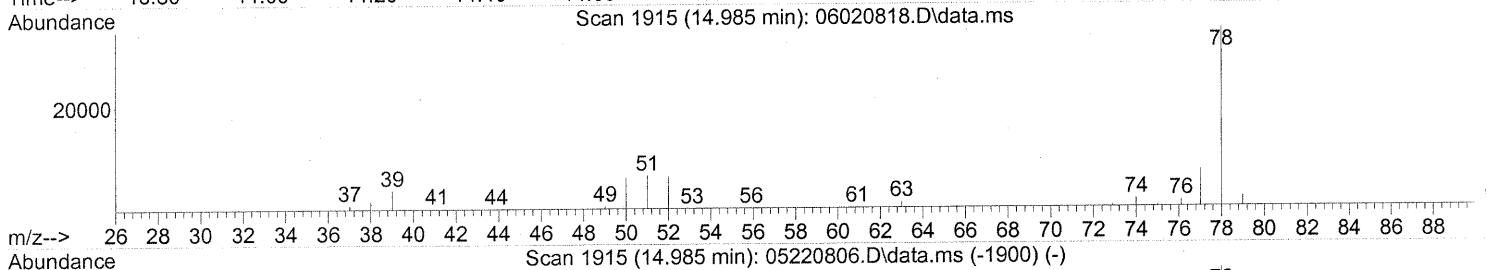
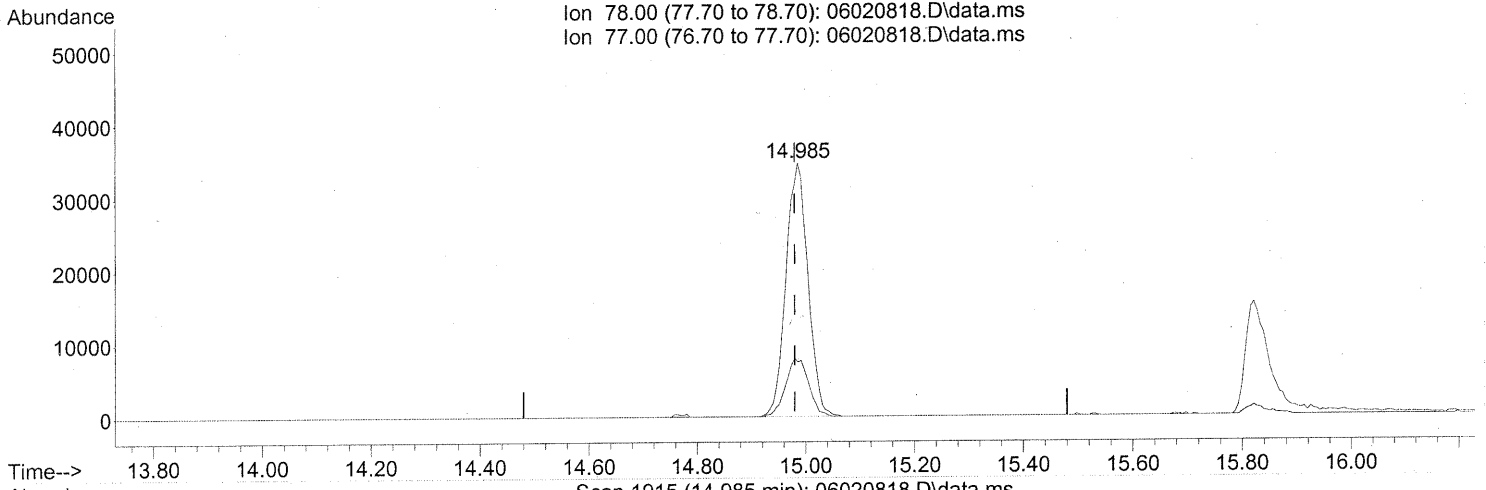
response 145401

Ion	Exp%	Act%
62.00	100	100
64.00	30.90	32.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.985min (+0.006) 1.22ng

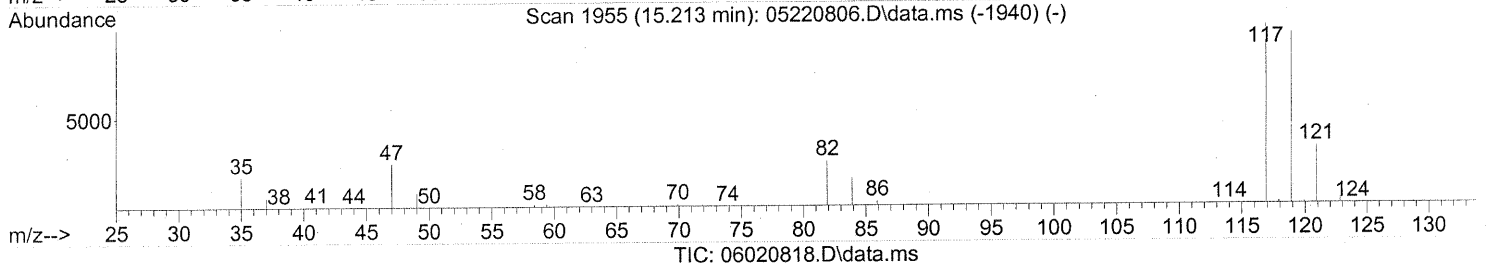
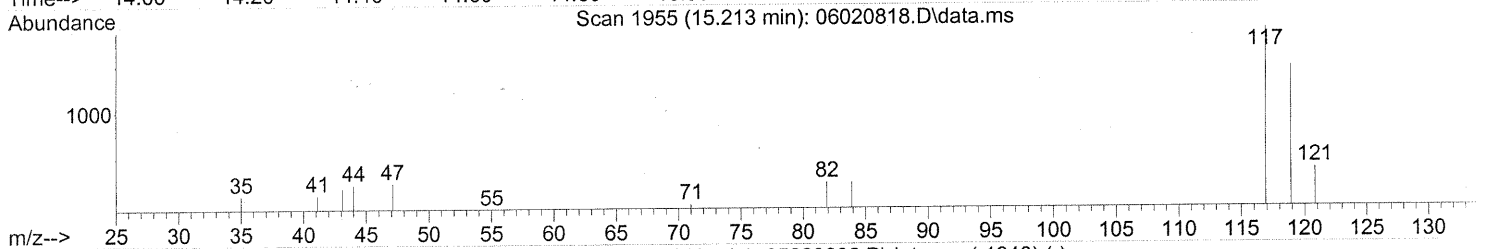
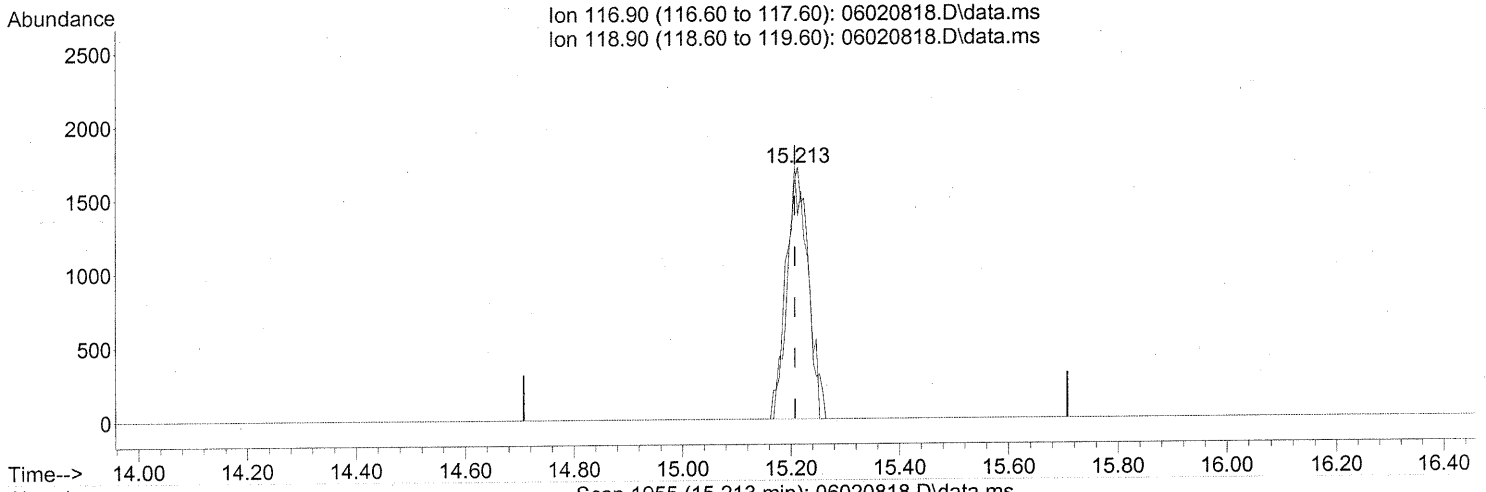
response 96915

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.213min (+0.006) 0.16ng

response 4874

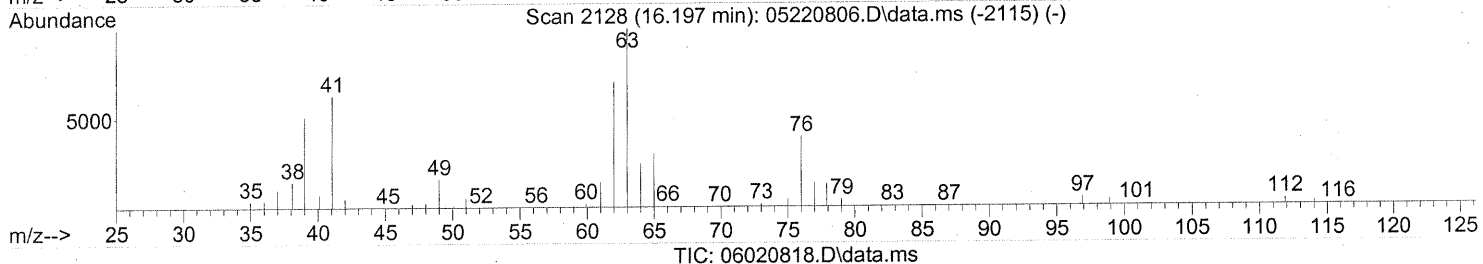
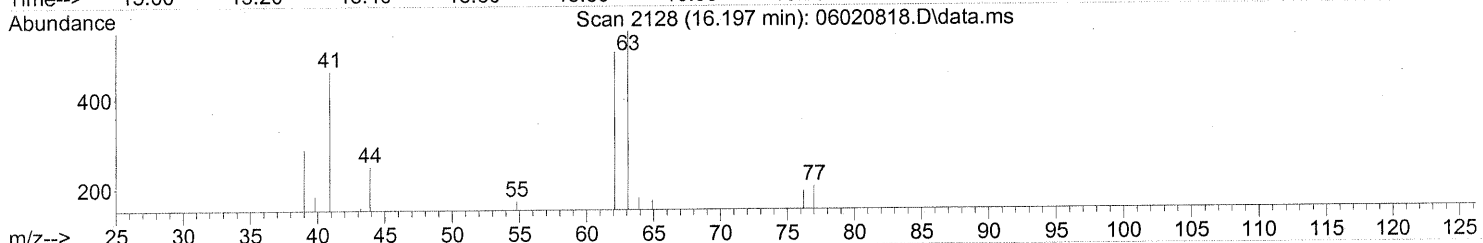
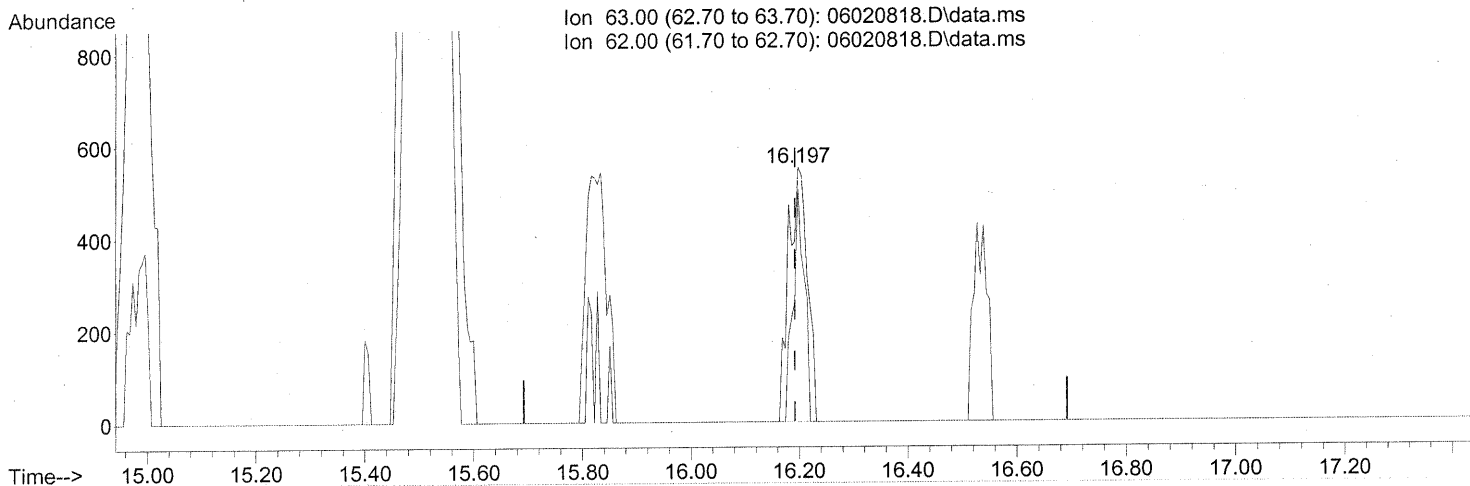
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	90.62
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.197min (+0.006) 0.06ng

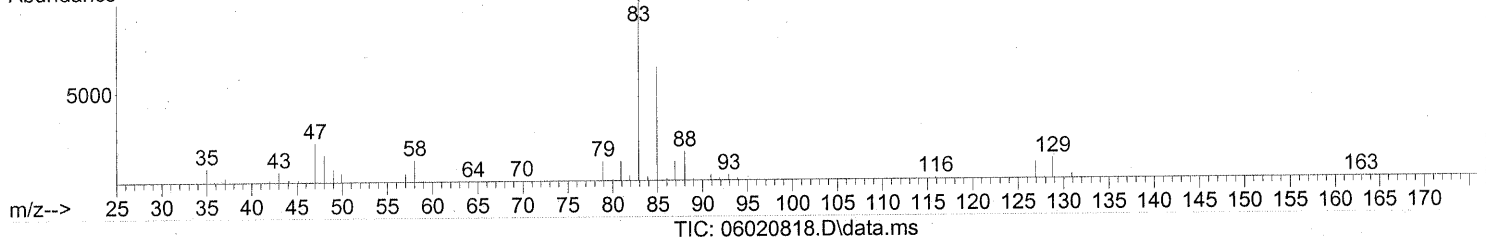
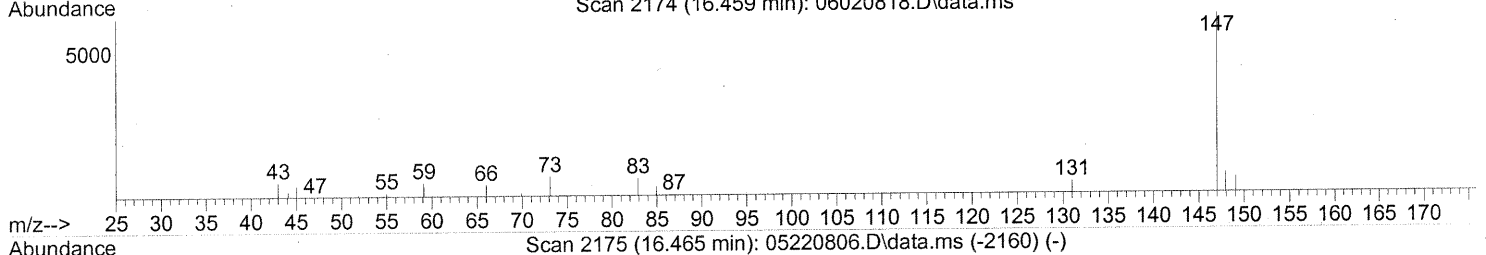
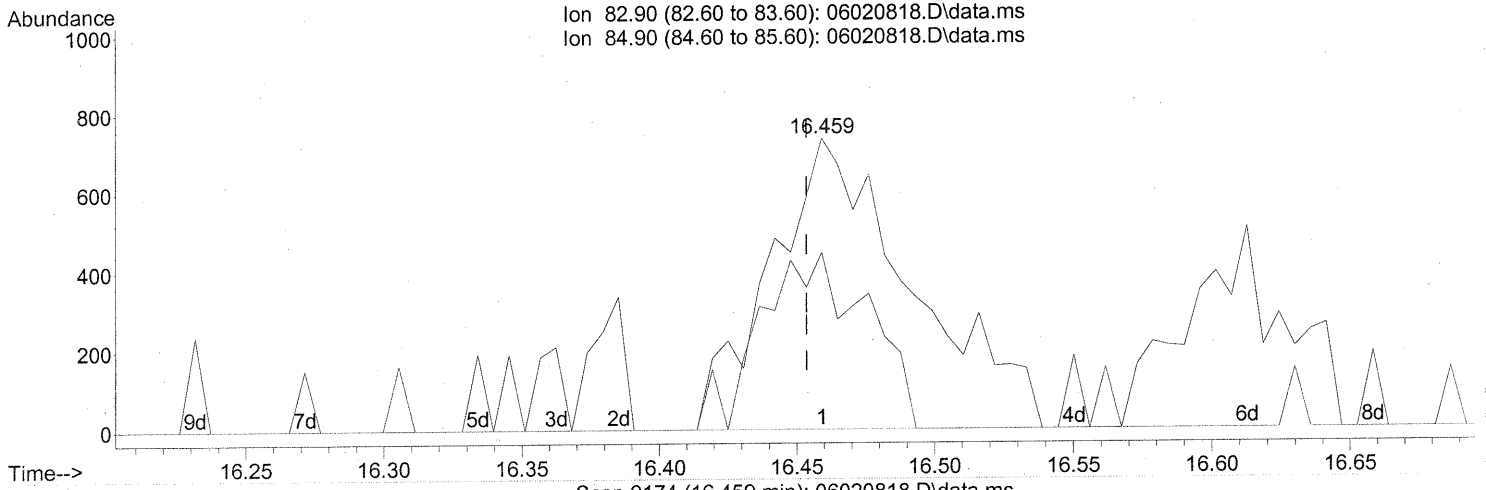
response 1317

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	55.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.459min (+0.006) 0.10ng

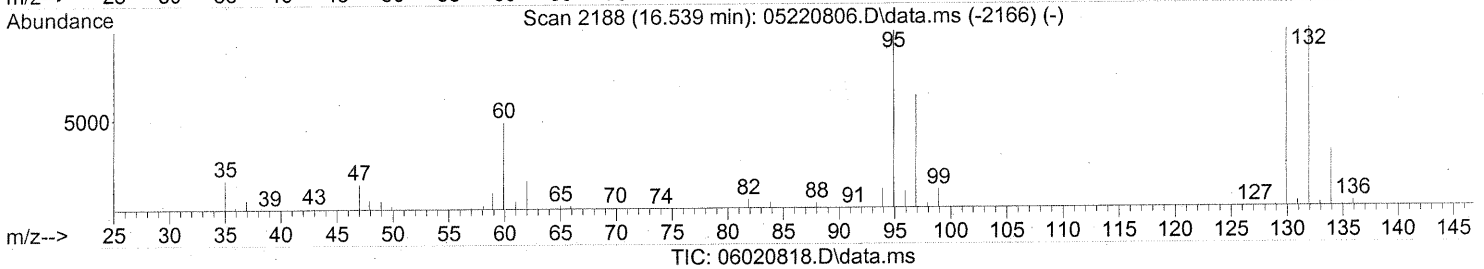
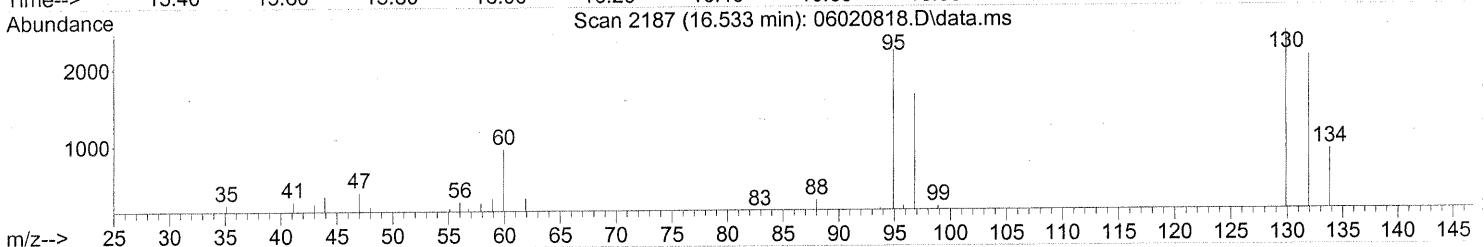
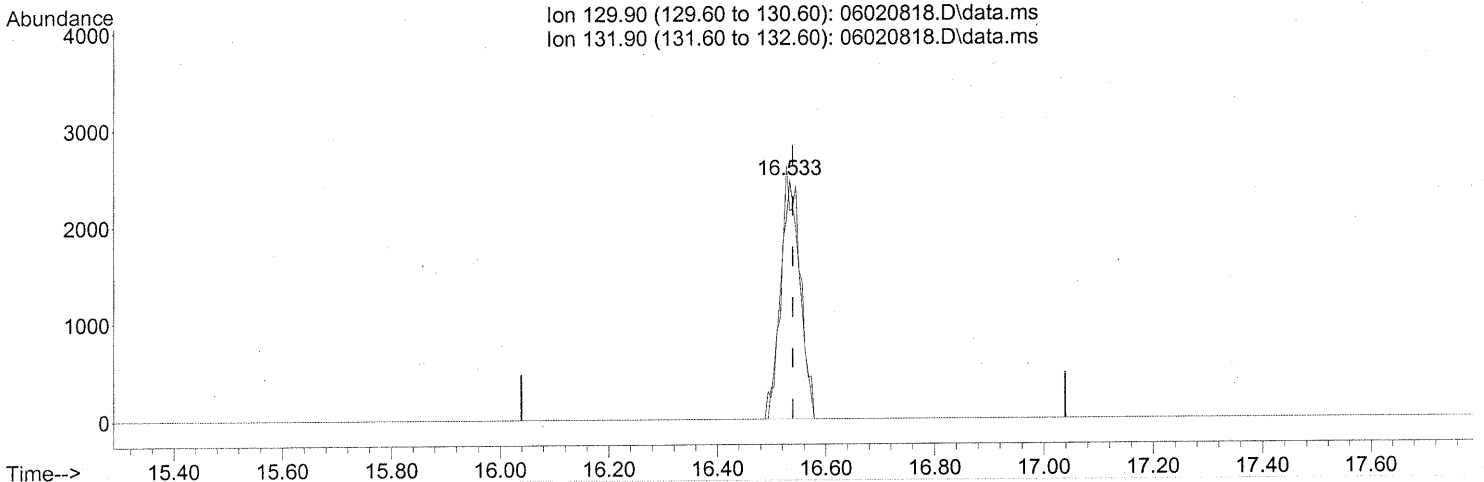
response 2616

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	46.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.533min (-0.006) 0.25ng

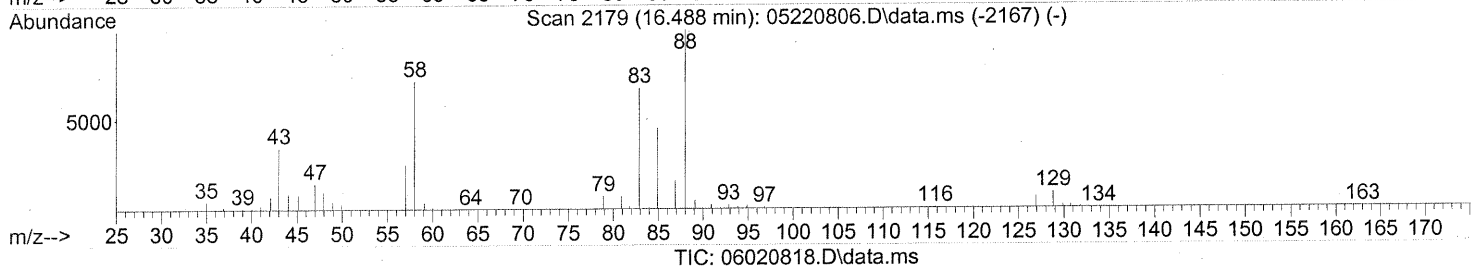
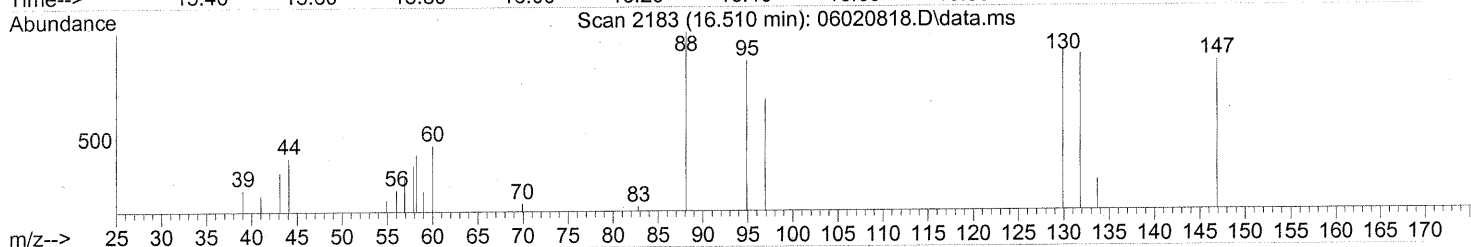
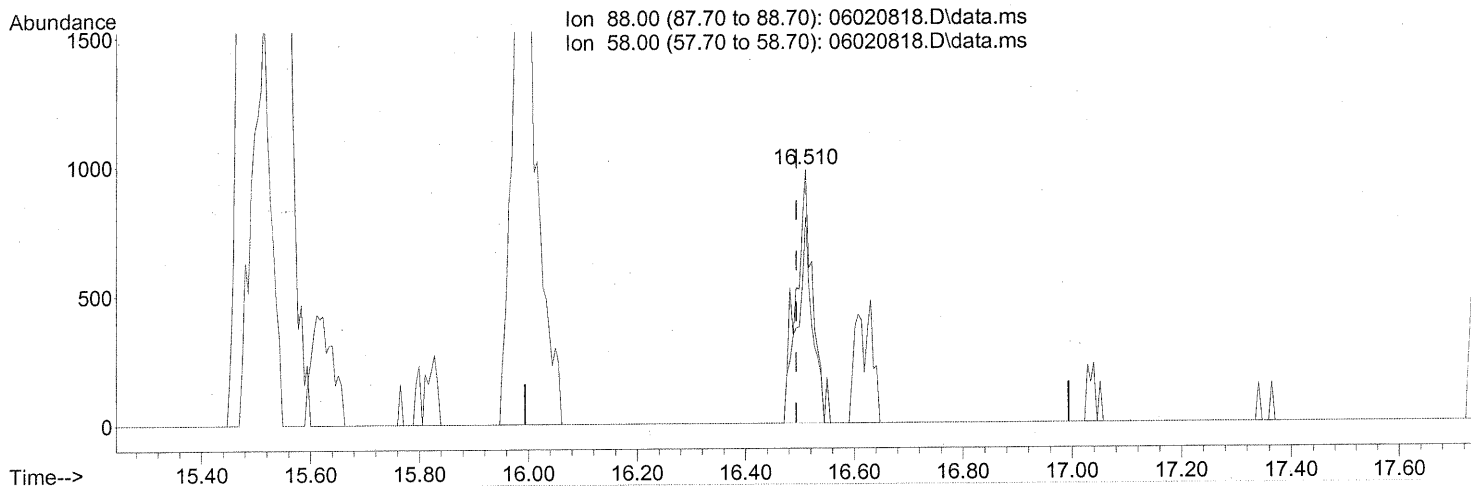
response 6043

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	103.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



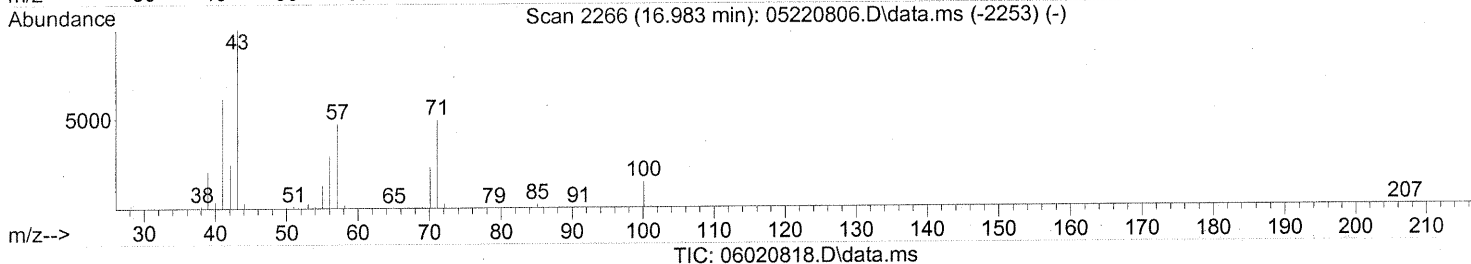
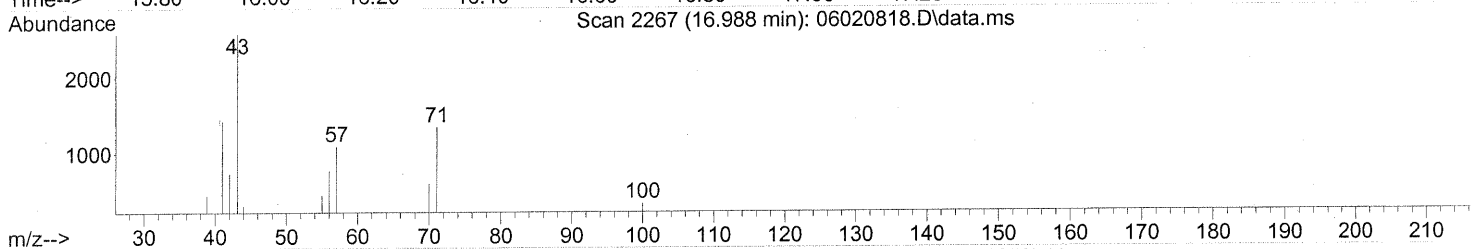
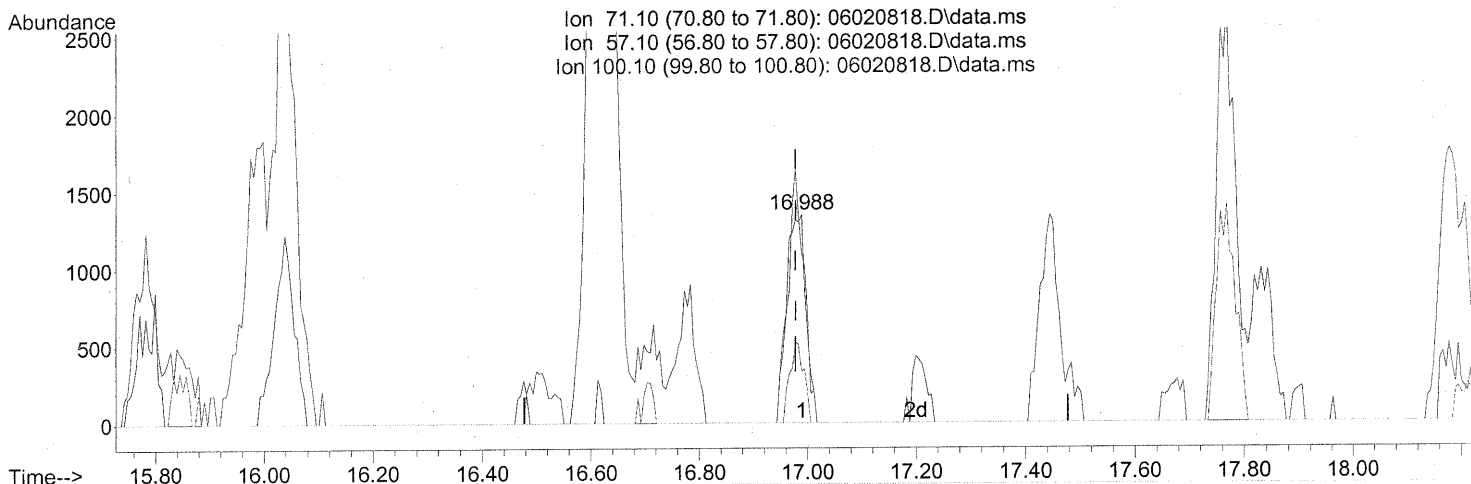
(48) 1,4-Dioxane (T)  
 16.510min (+0.017) 0.14ng  
 response 2088

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	73.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



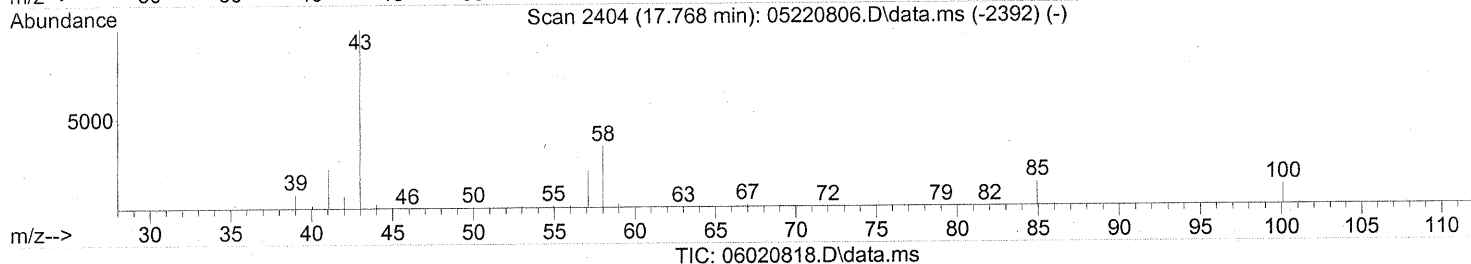
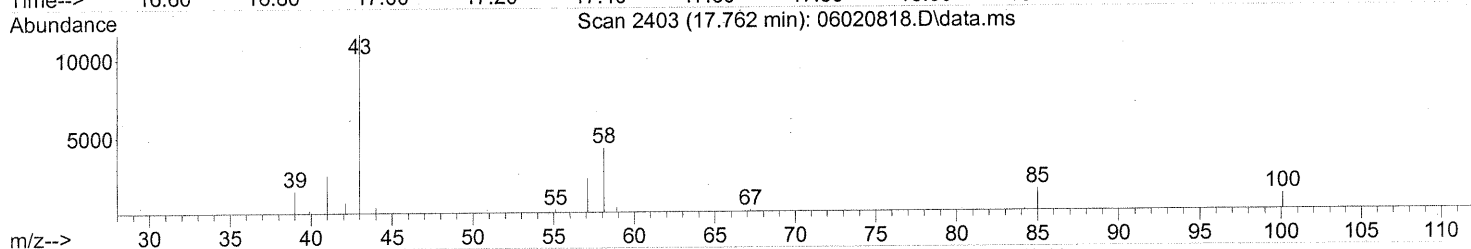
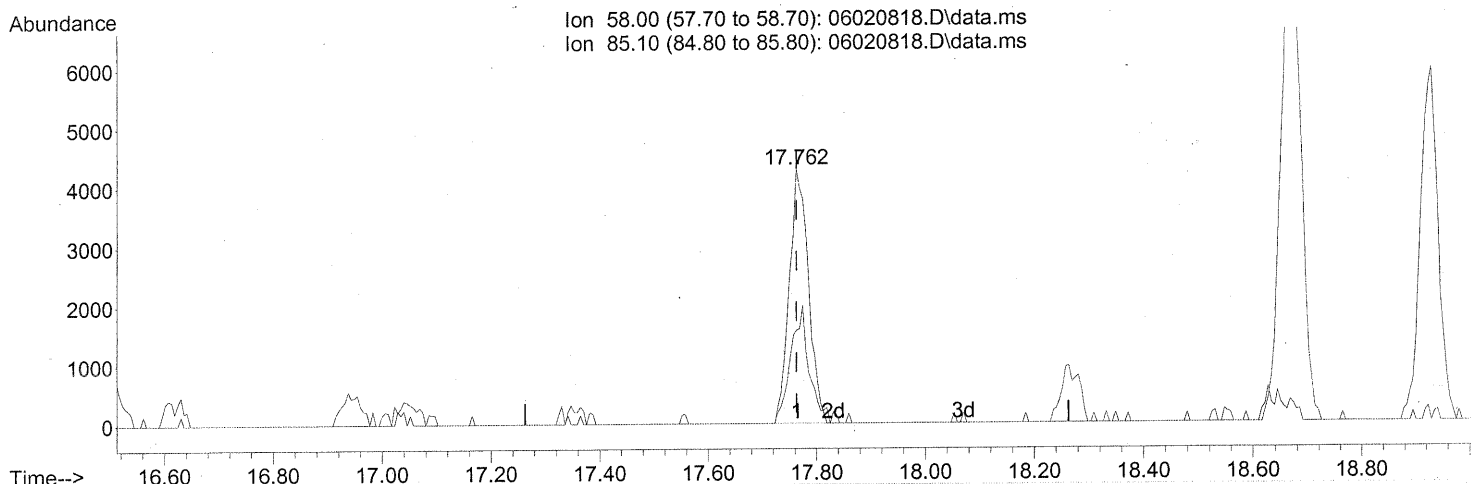
(51) n-Heptane (T)  
 16.988min (+0.011) 0.16ng  
 response 3350

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	102.18#
100.10	30.10	28.21
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.762min (-0.000) 0.50ng

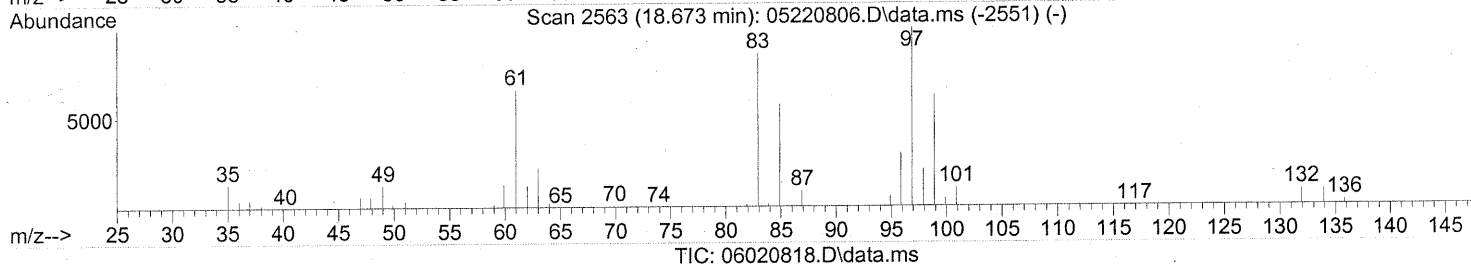
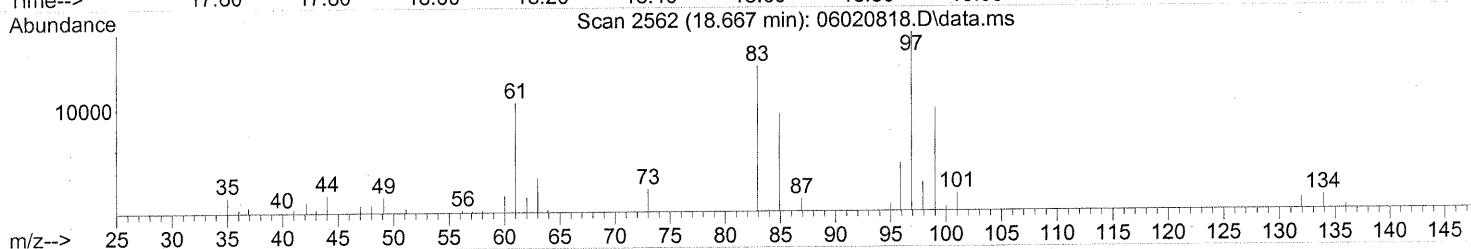
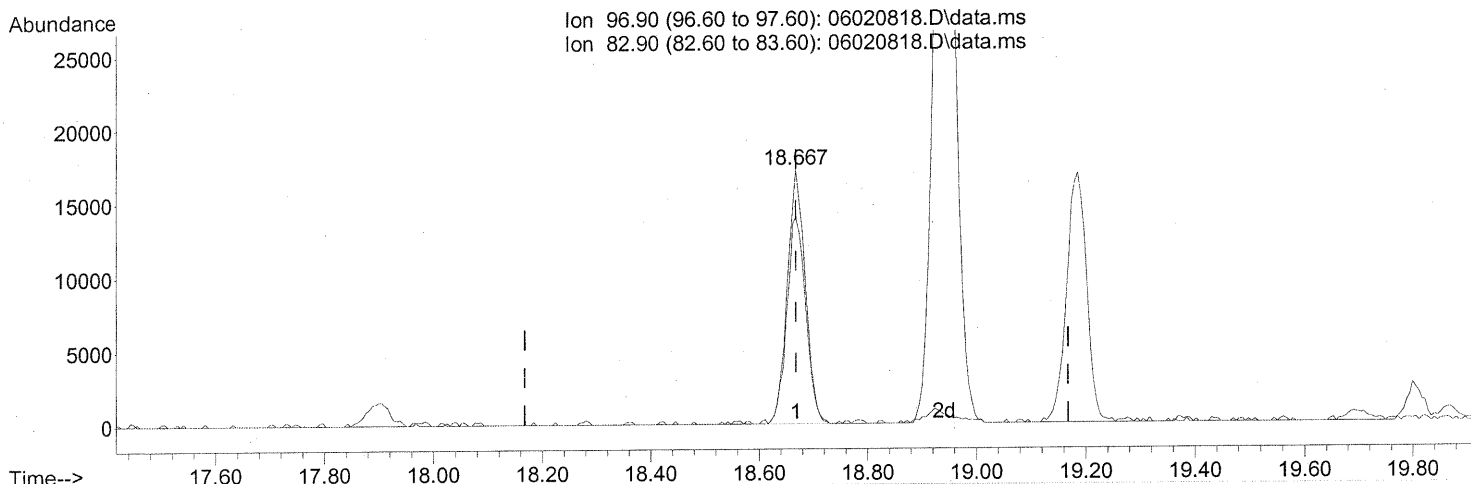
response 10541

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	44.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.667min (-0.000) 2.01ng

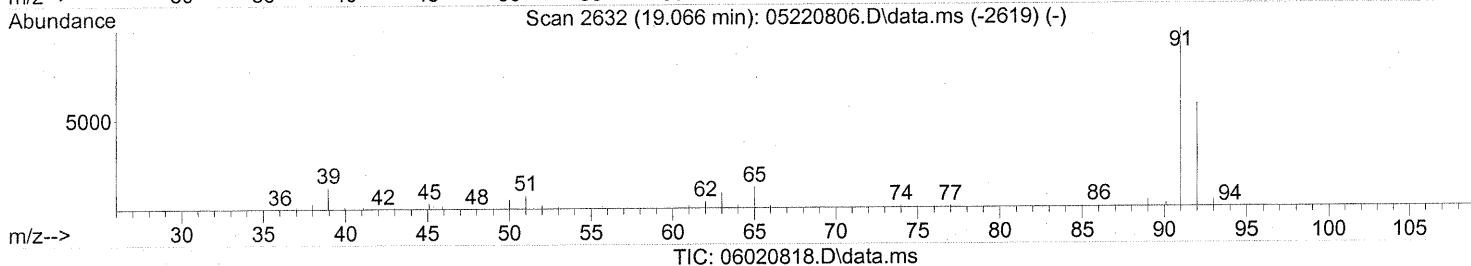
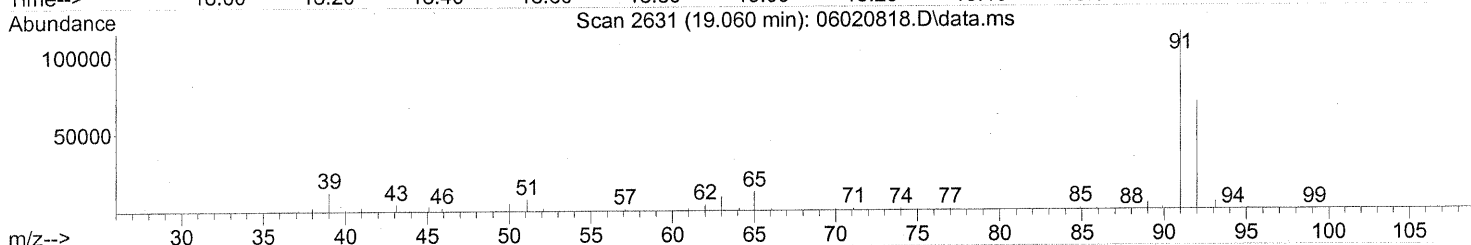
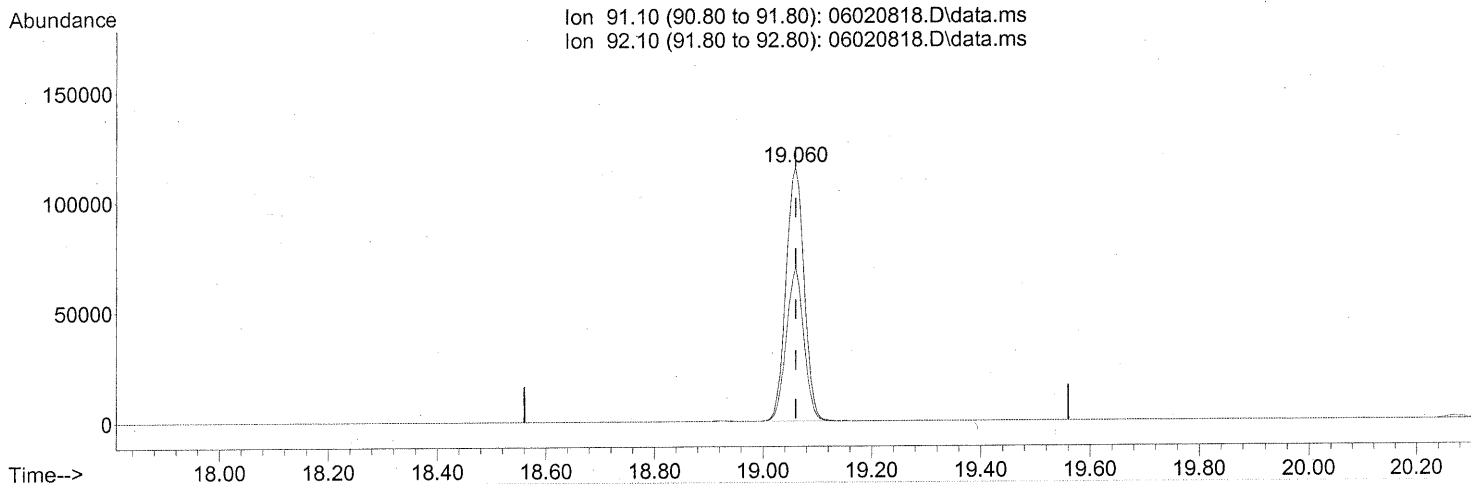
response 39536

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	85.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)  
 19.060min (-0.000) 3.04ng  
 response 266856

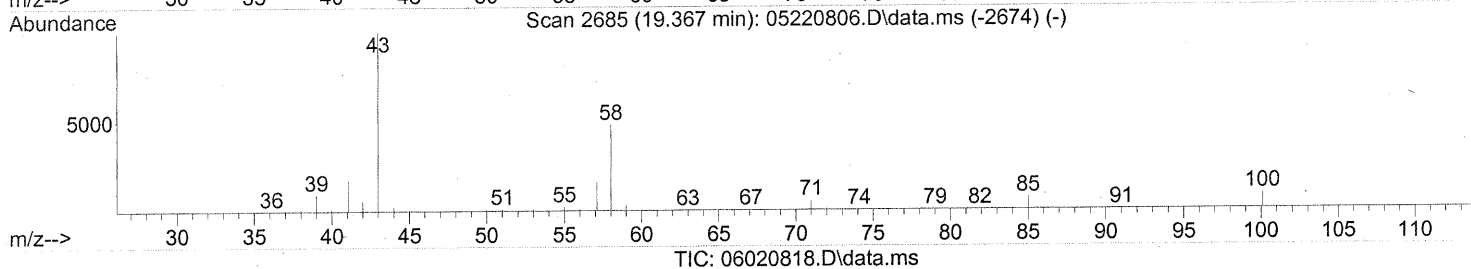
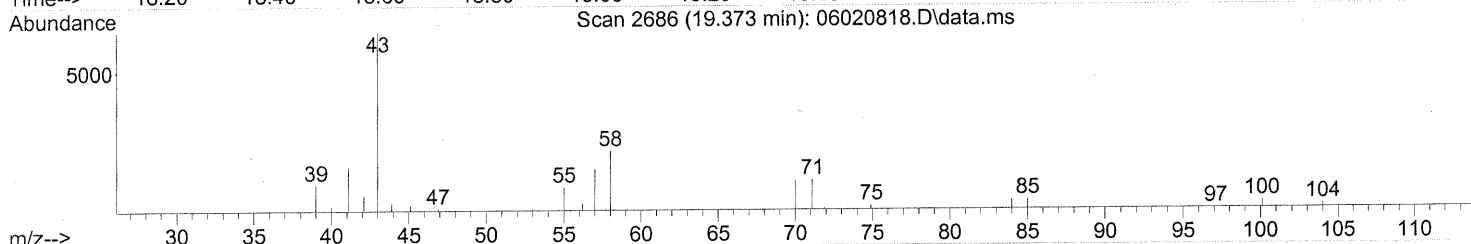
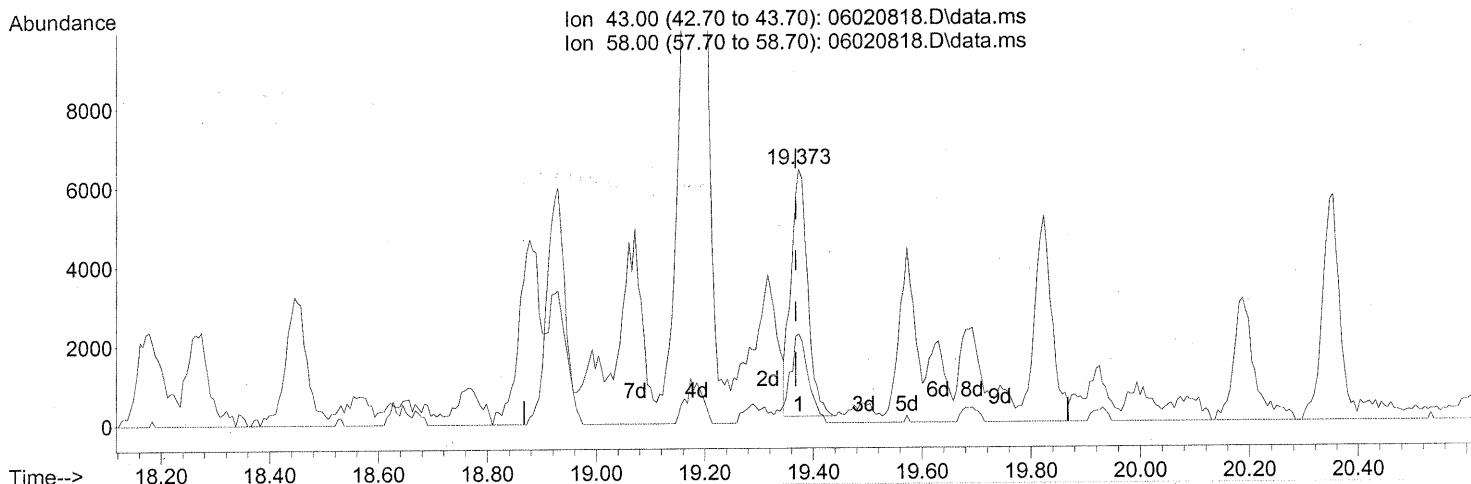
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.35
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.22ng

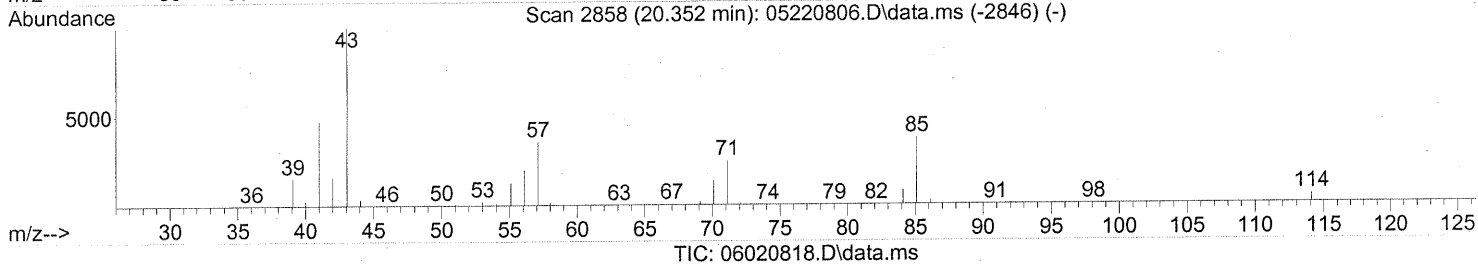
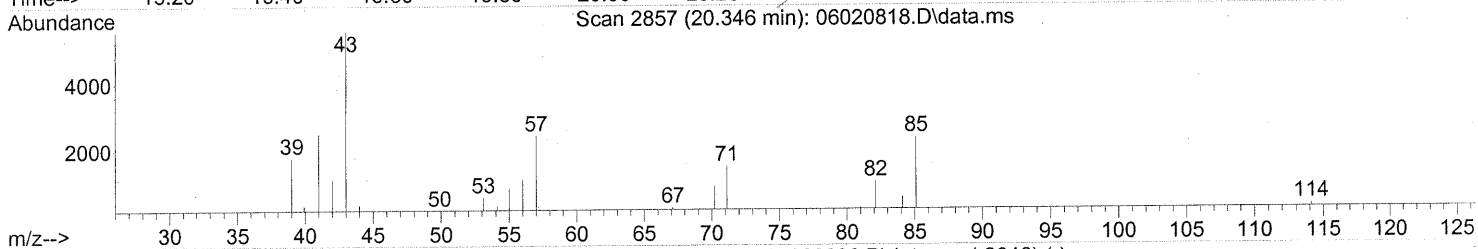
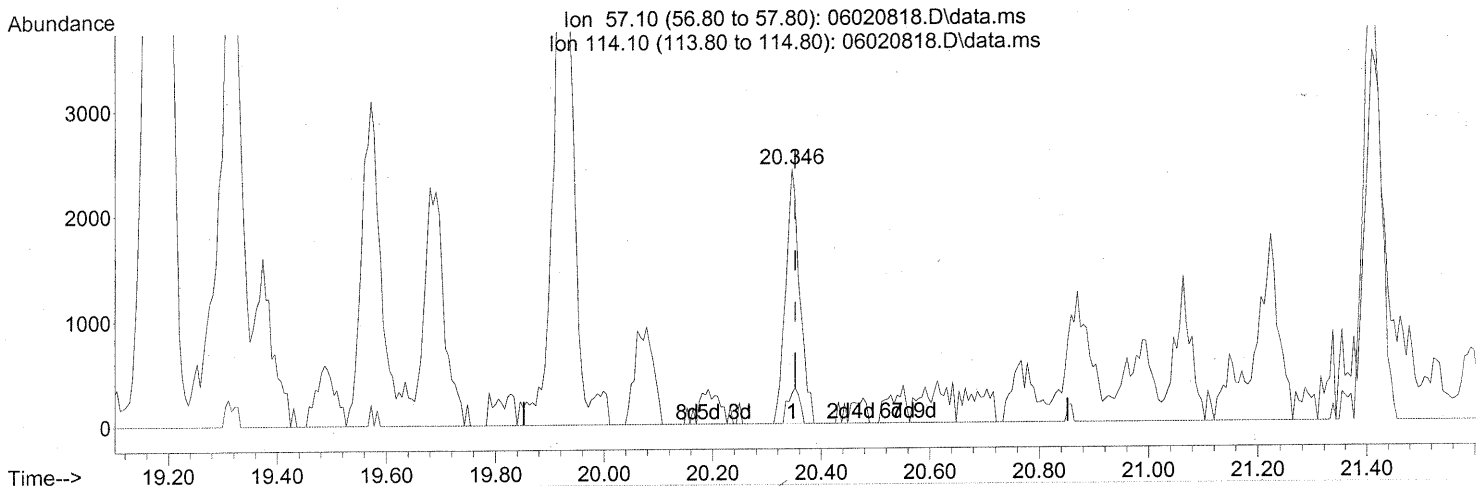
response 13397

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	40.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.346min (-0.006) 0.23ng

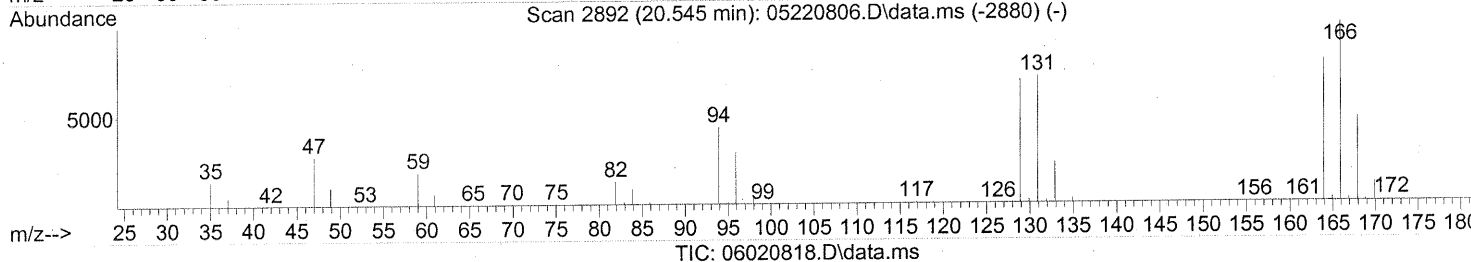
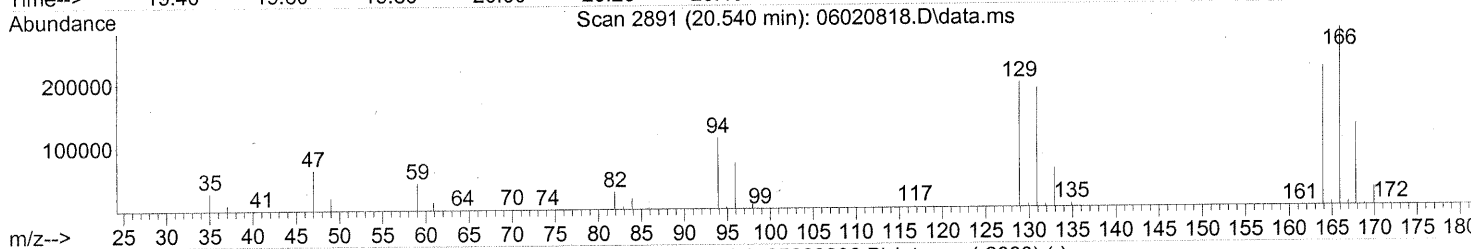
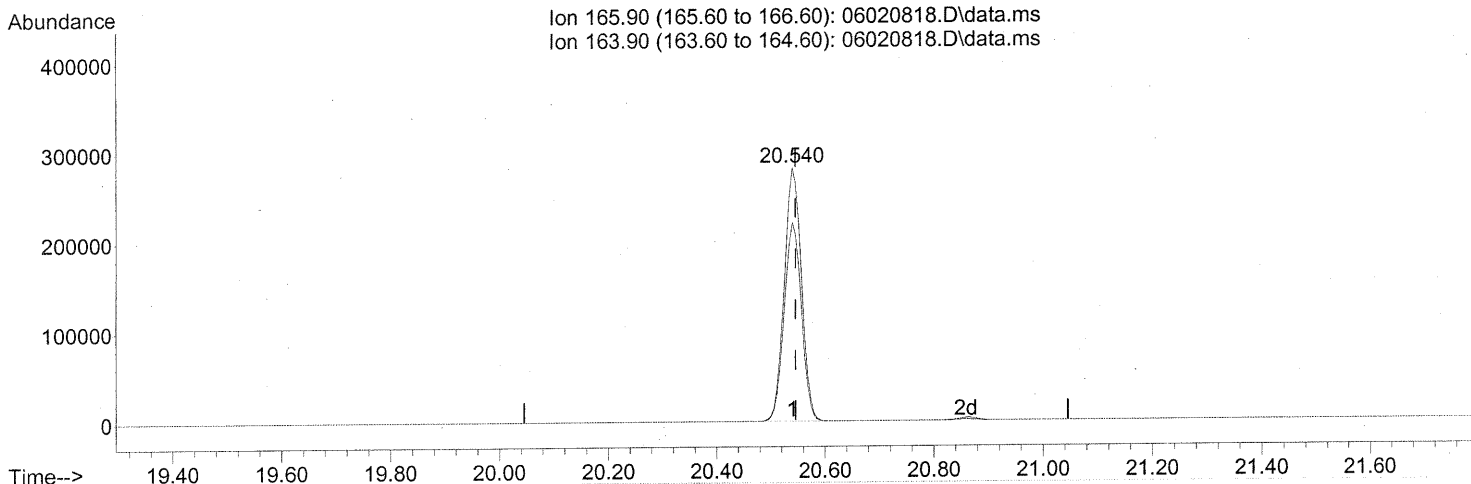
response 4394

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	11.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 23.66ng

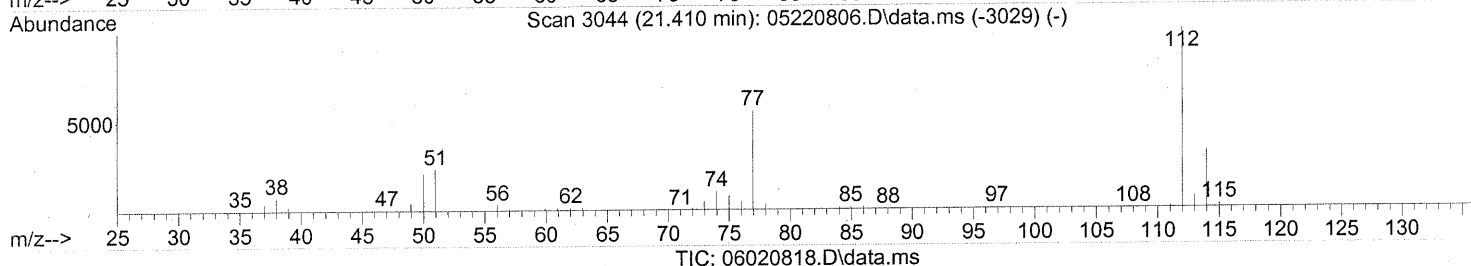
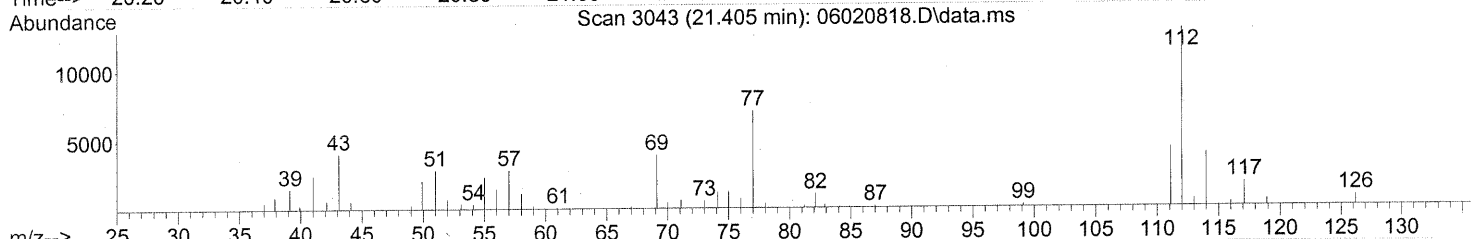
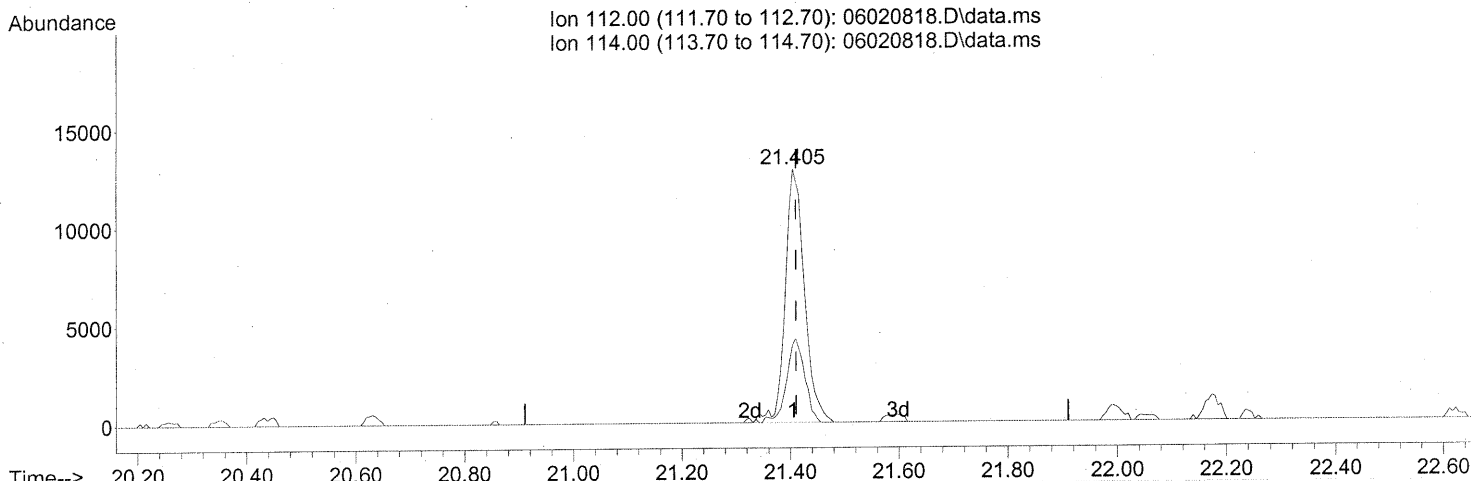
response 614828

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.405min (-0.006) 0.54ng

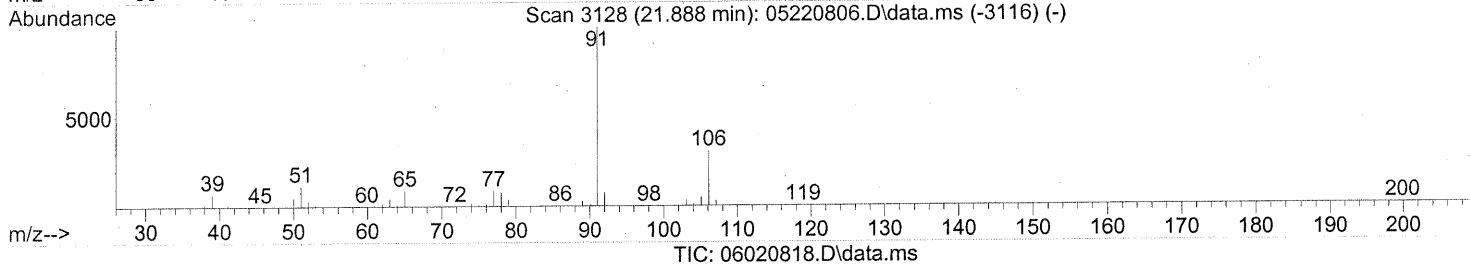
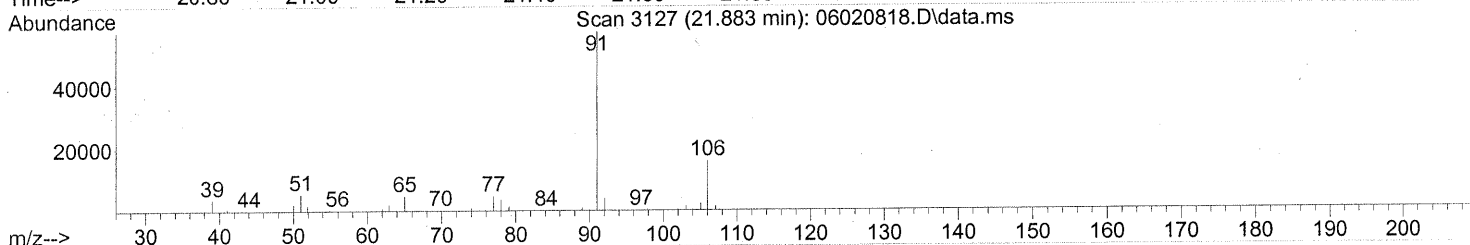
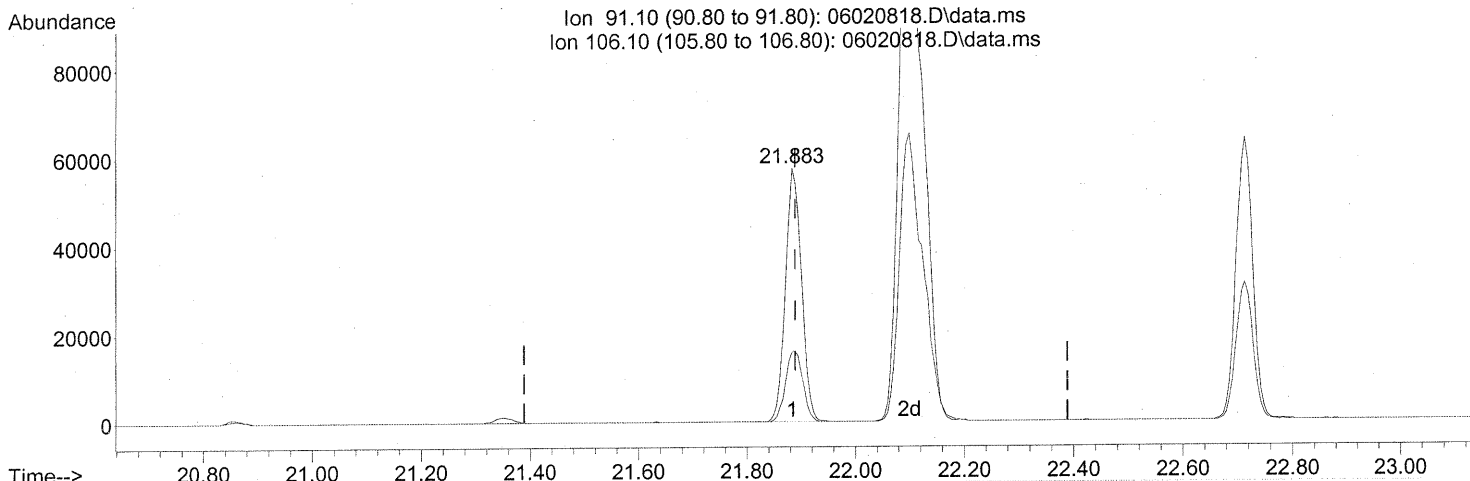
response 31611

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	31.10
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020818.D  
Acq On : 2 Jun 2008 9:46 pm  
Operator : RTB  
Sample : P0801548-013 (500mL)  
Misc : ENSR SG53B-05D (-1.6, 3.5)  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(66) Ethylbenzene (T)

21.883min (-0.006) 1.17ng

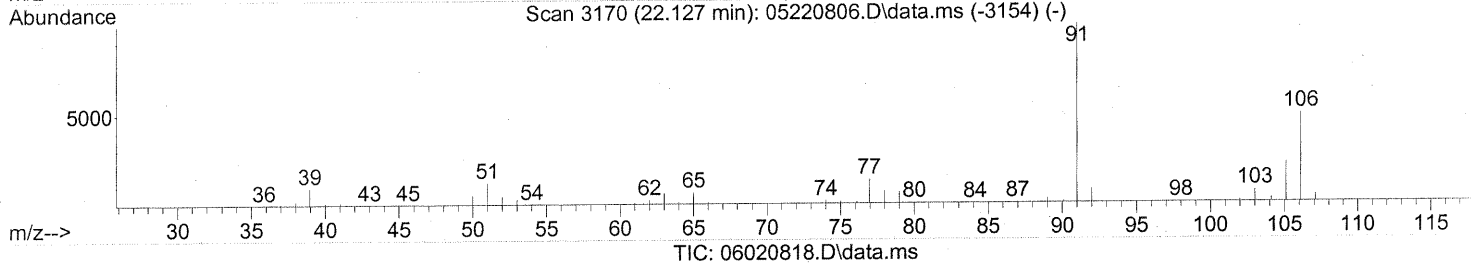
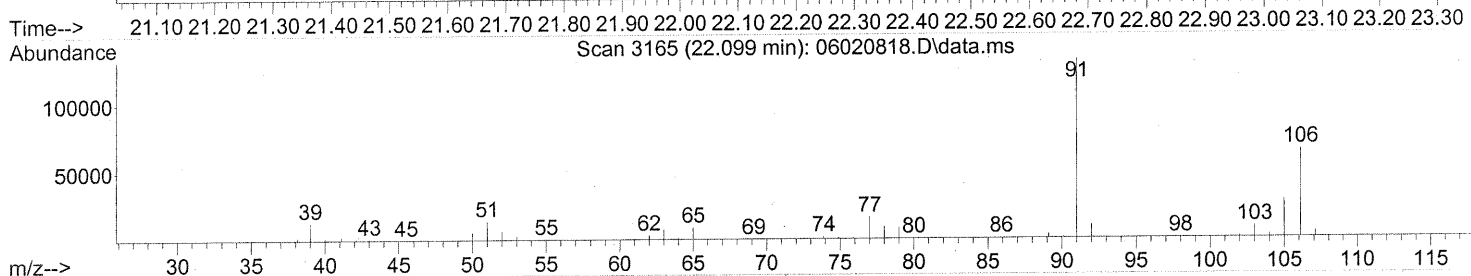
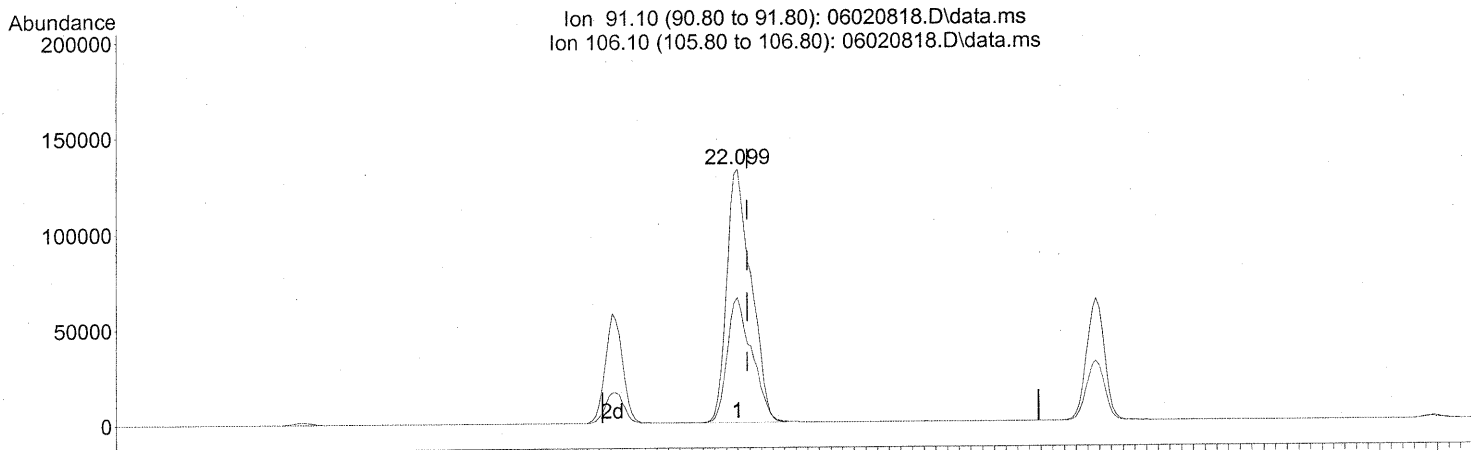
response 118272

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 5.73ng

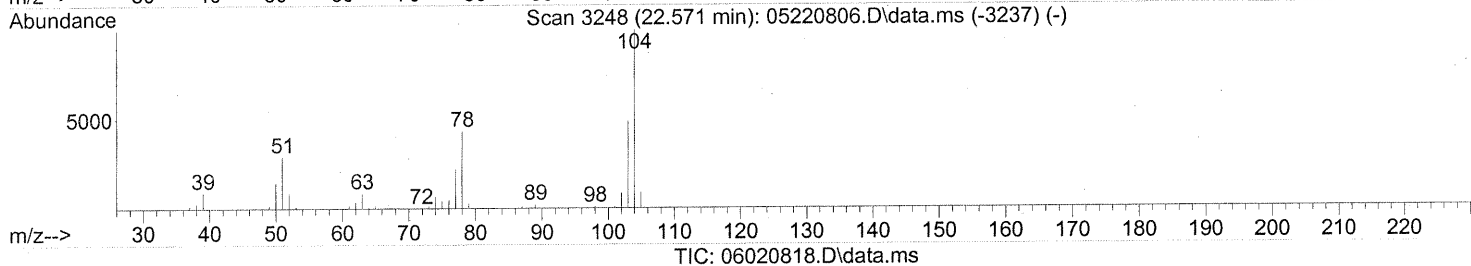
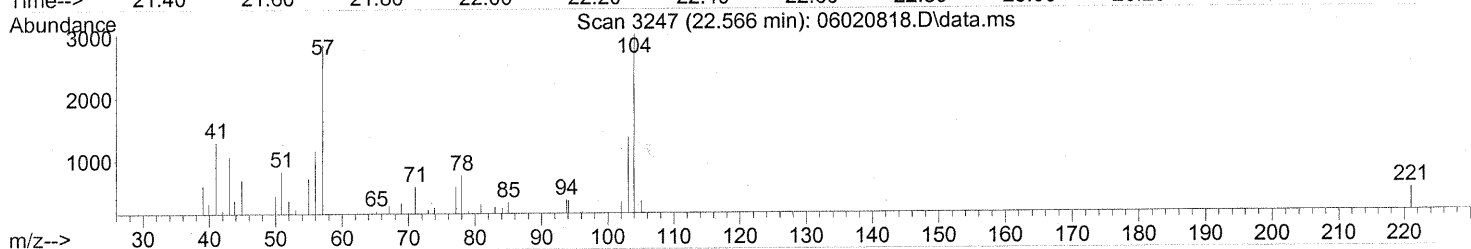
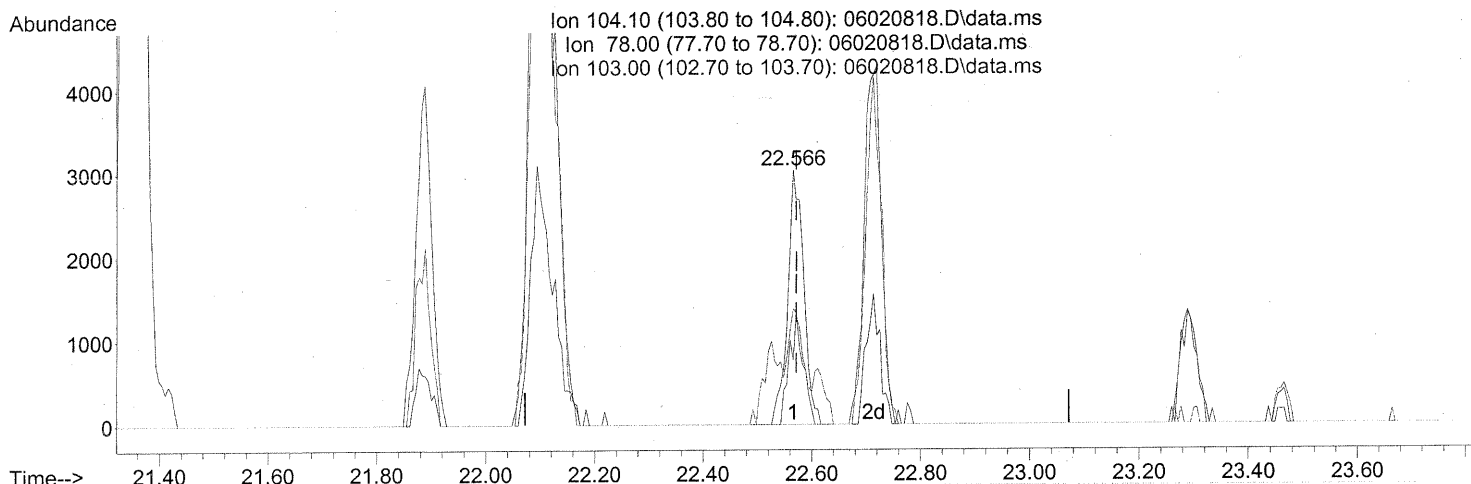
response 386094

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	50.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.566min (-0.006) 0.10ng

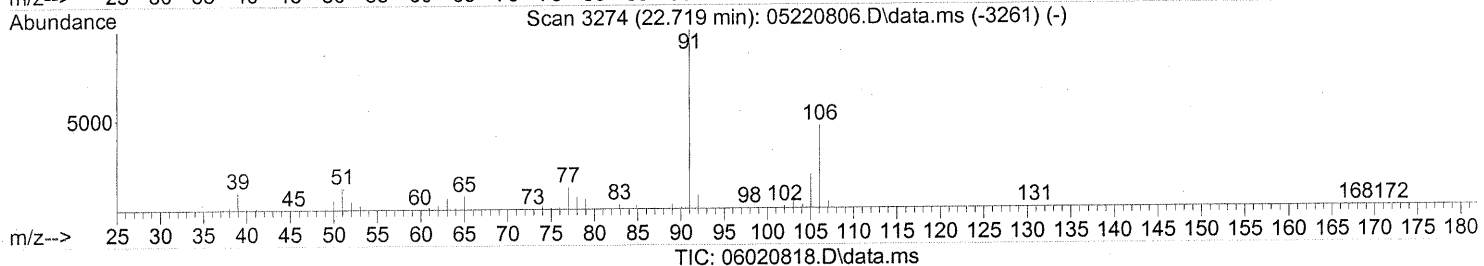
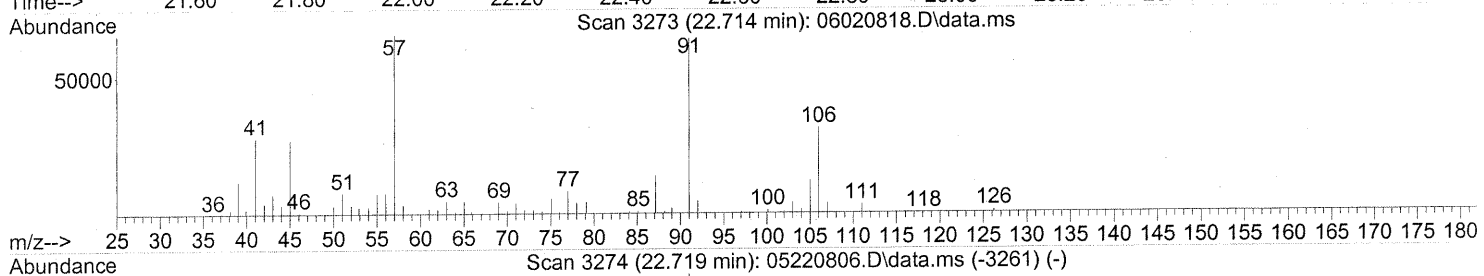
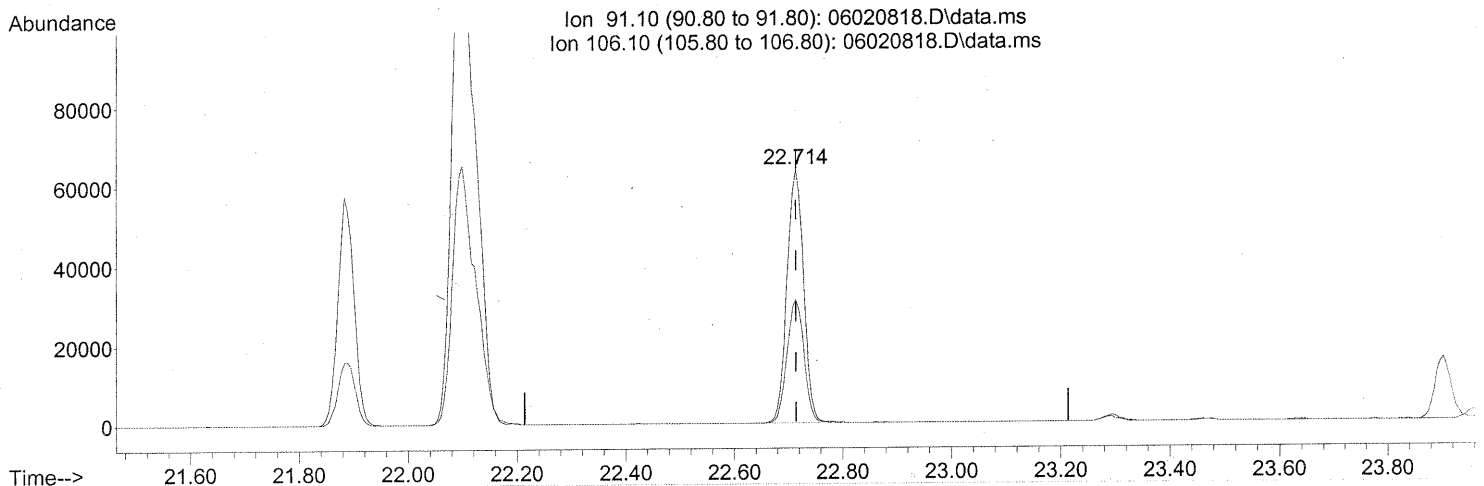
response 6154

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	37.60
103.00	47.10	44.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 1.87ng

response 135931

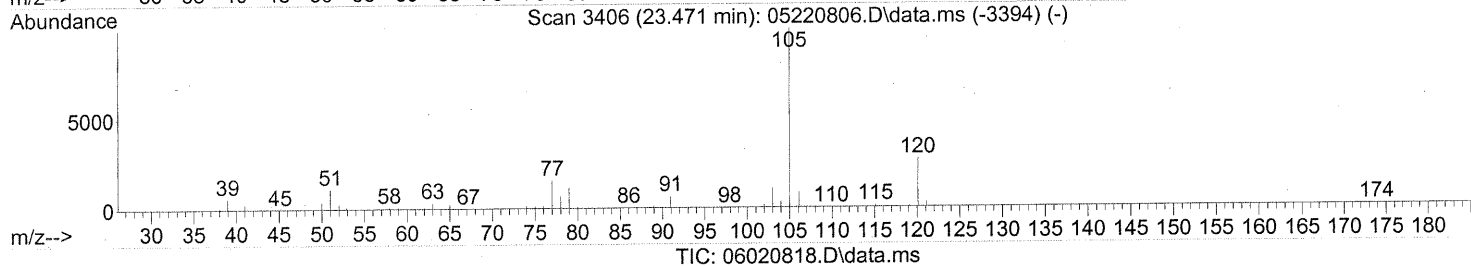
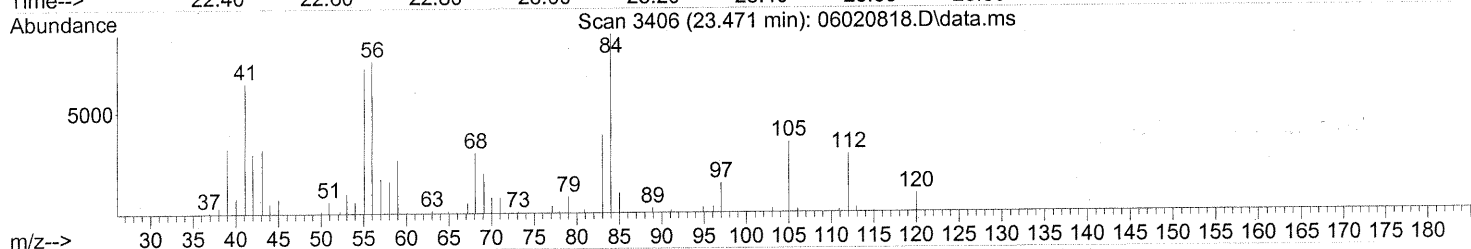
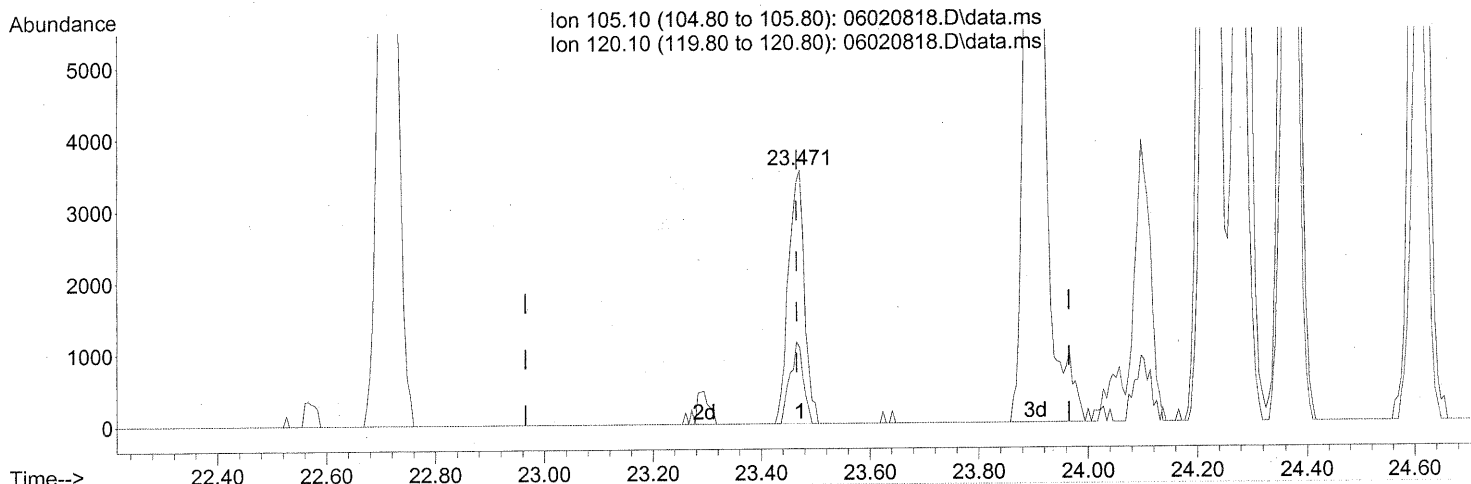
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	49.66
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.471min (+0.006) 0.07ng

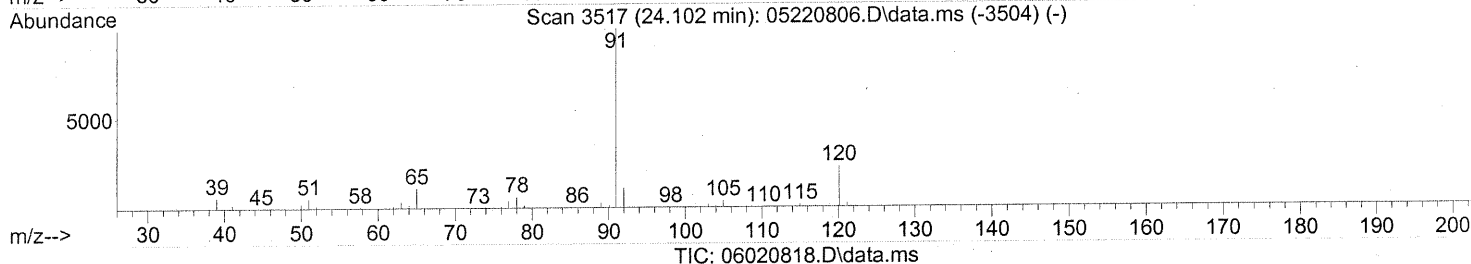
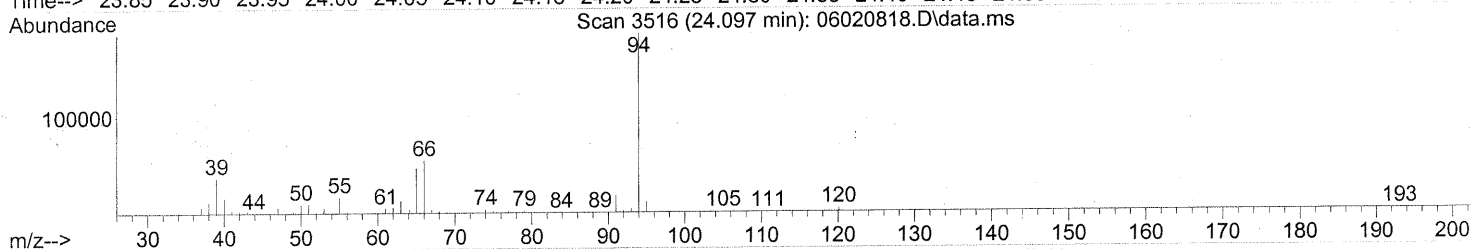
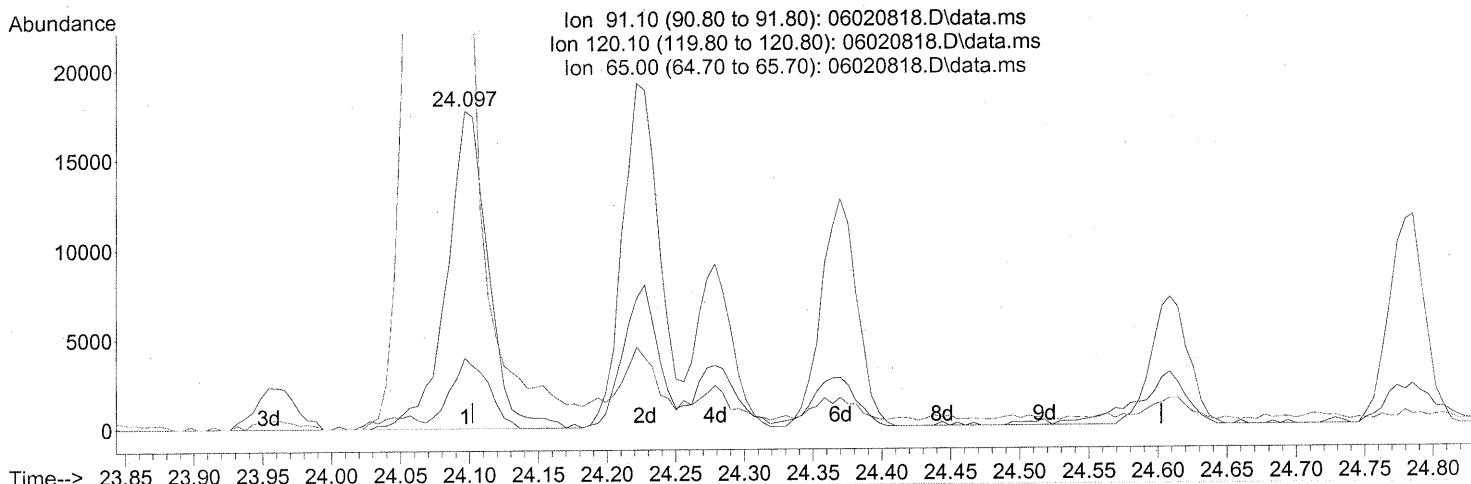
response 7139

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	27.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.097min (-0.006) 0.30ng

response 37151

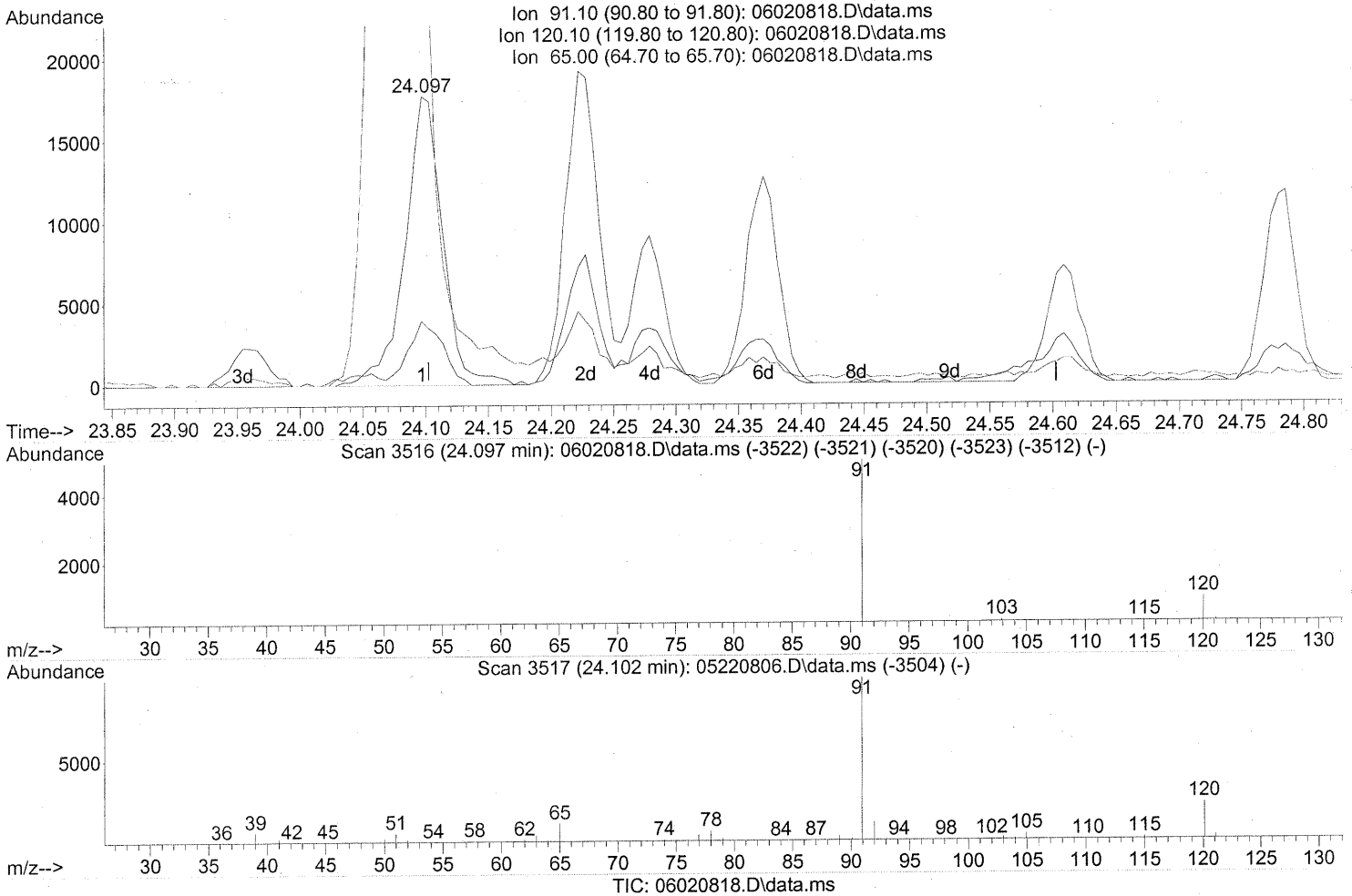
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	20.39
65.00	11.40	786.67#
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.097min (-0.006) 0.30ng  
 response 37151

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	20.39
65.00	11.40	786.67#
0.00	0.00	0.00

AFTER SUBTRACTION

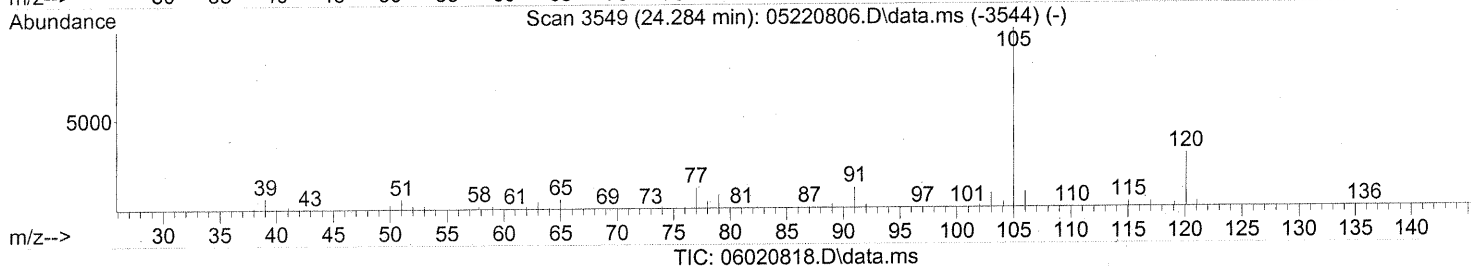
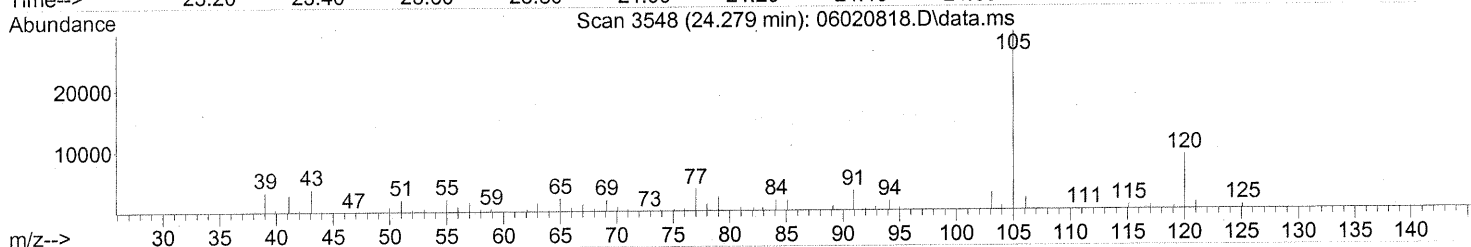
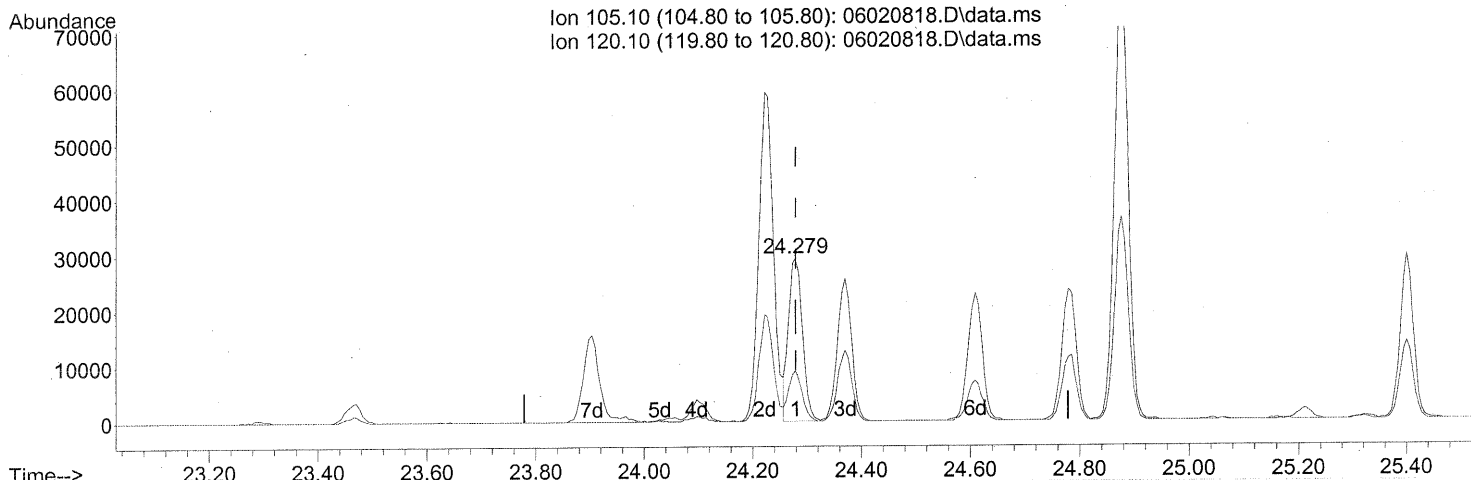
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



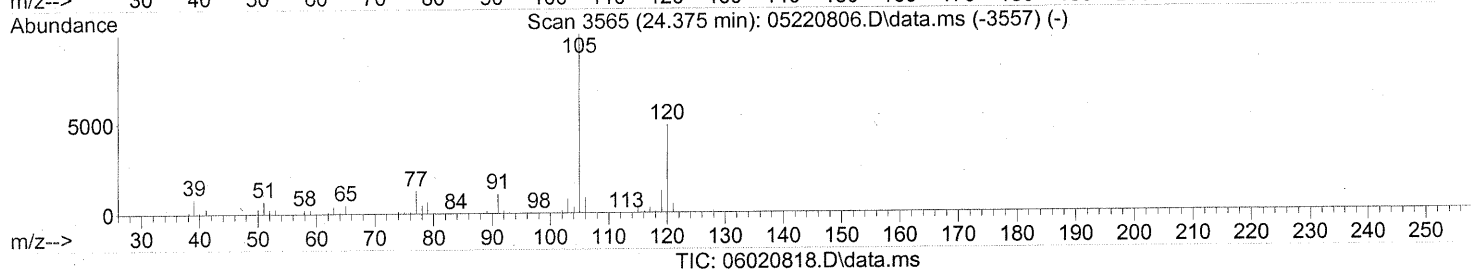
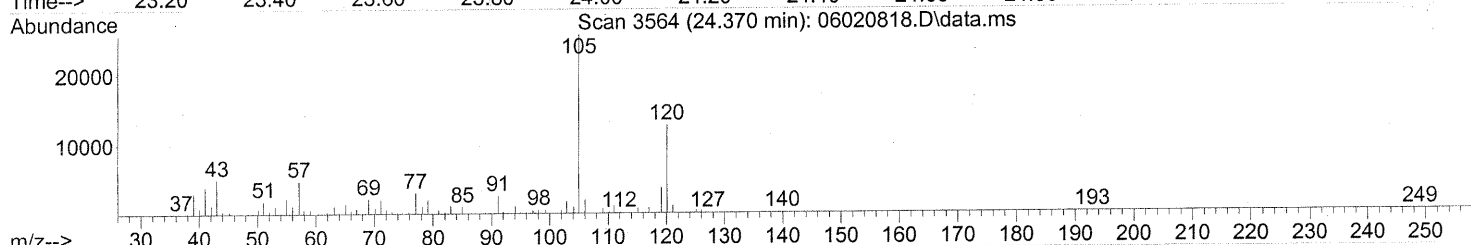
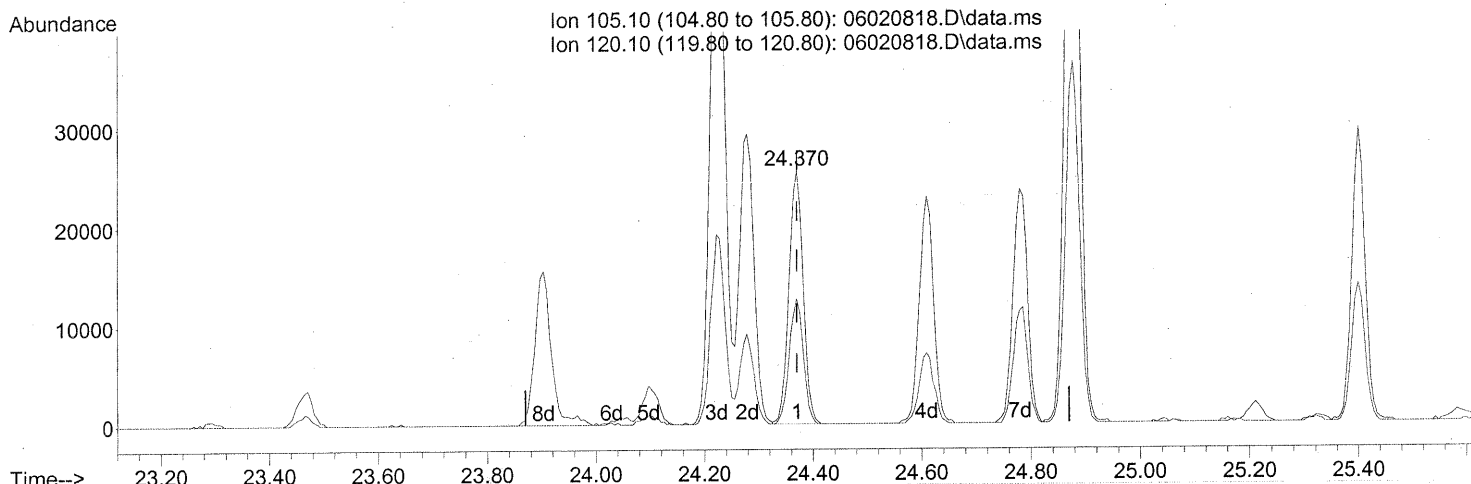
(78) 4-Ethyltoluene (T)  
 24.279min (-0.000) 0.54ng  
 response 52241

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.54ng

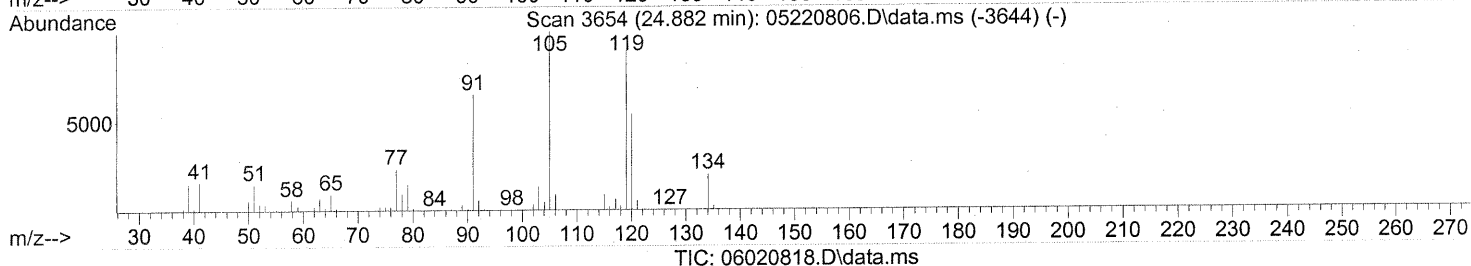
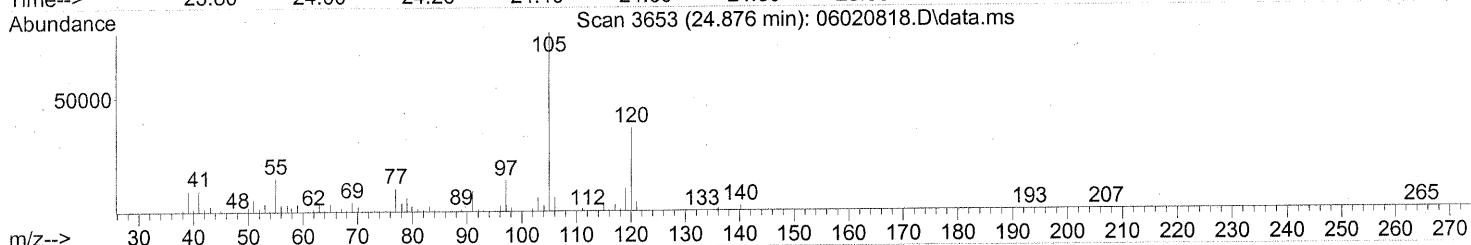
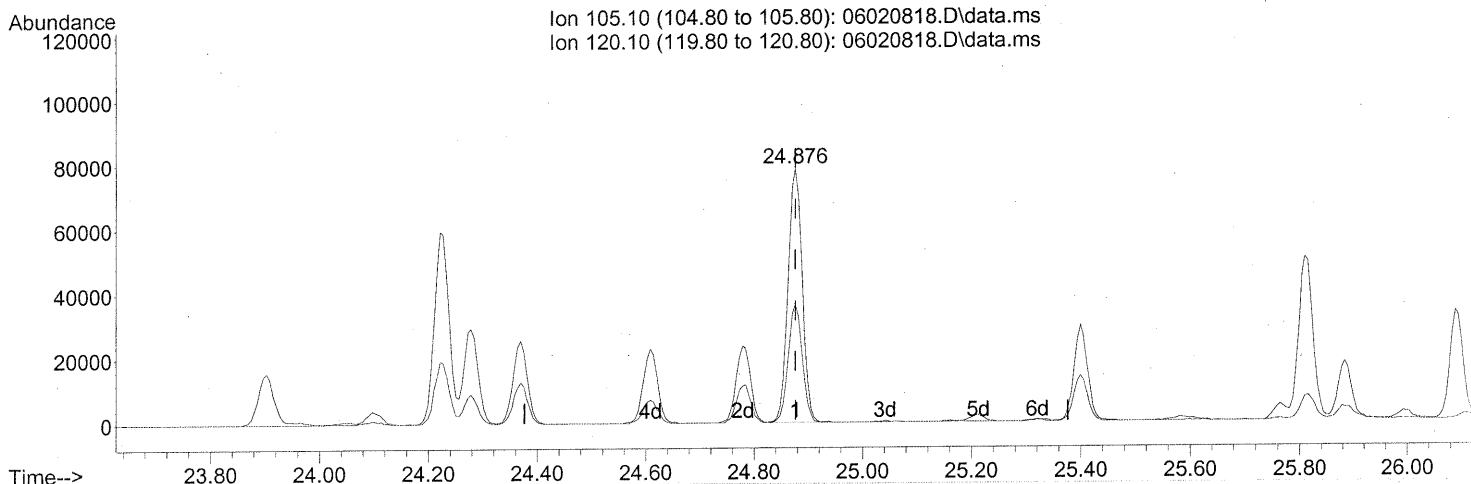
response 46941

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 1.61ng

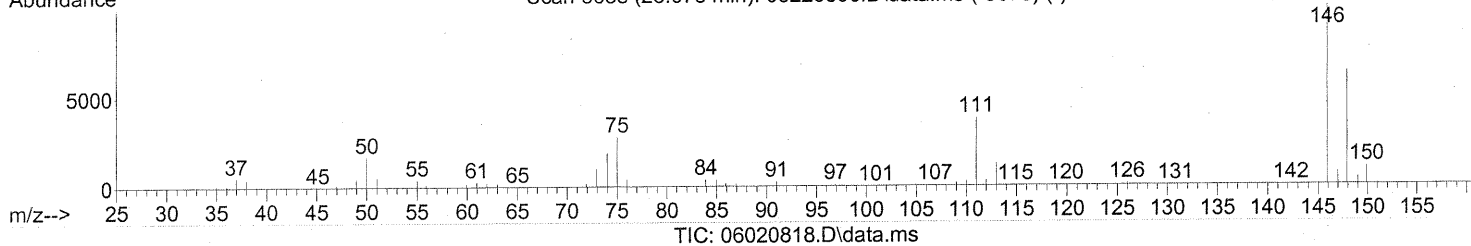
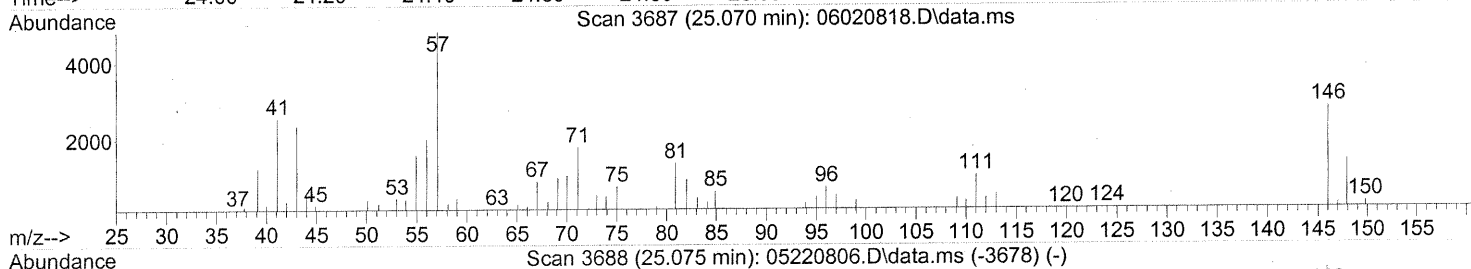
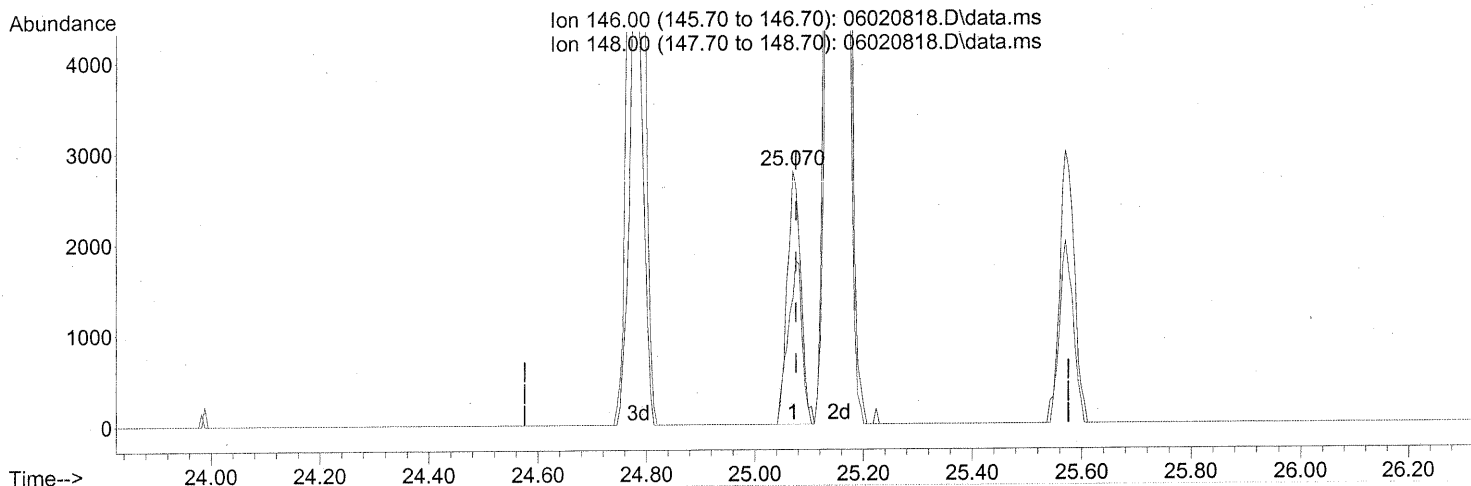
response 142328

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

25.070min (-0.006) 0.09ng

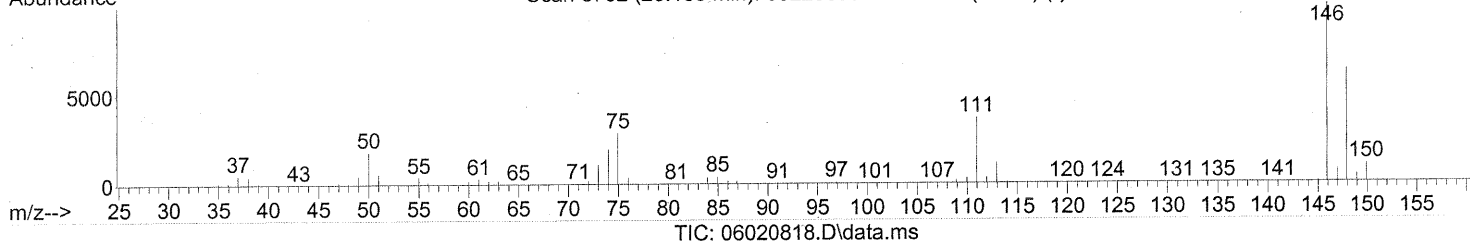
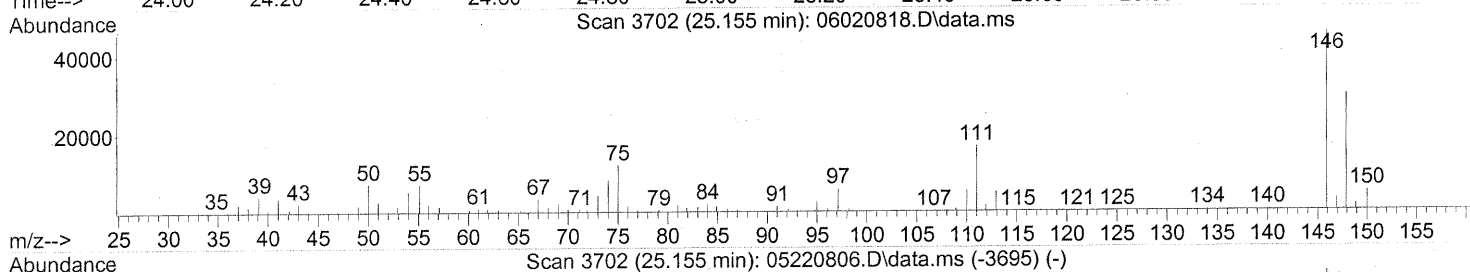
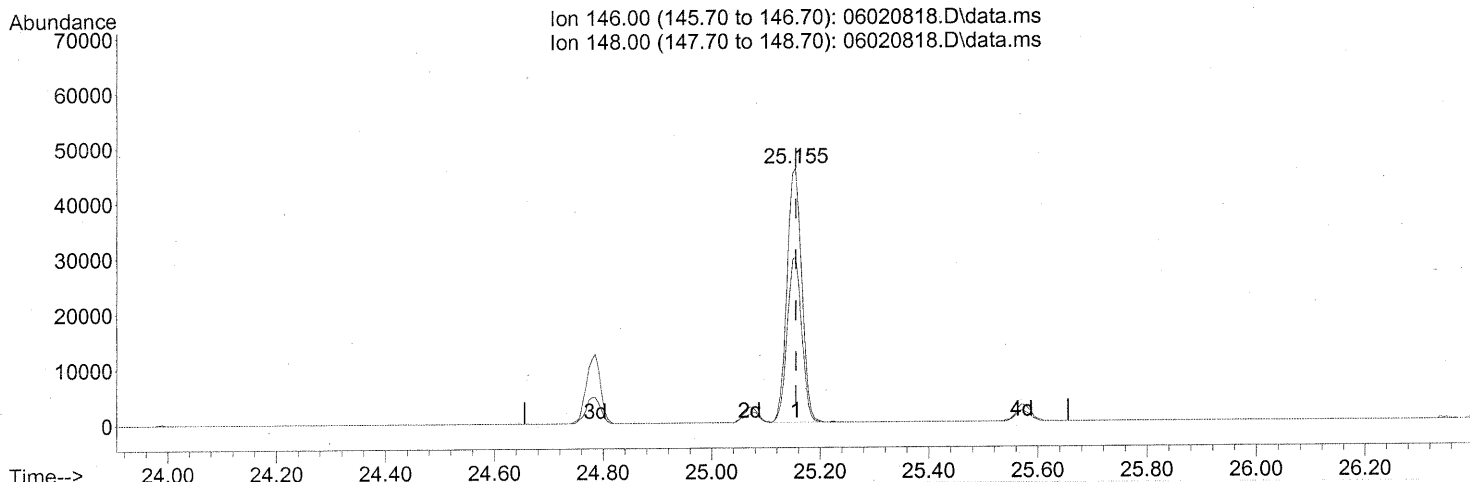
response 4813

Ion	Exp%	Act%
146.00	100	100
148.00	64.00	67.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.61ng

response 86322

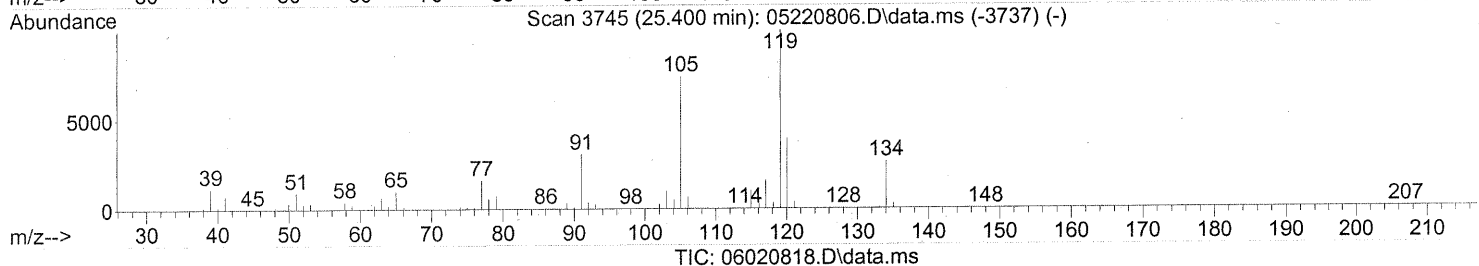
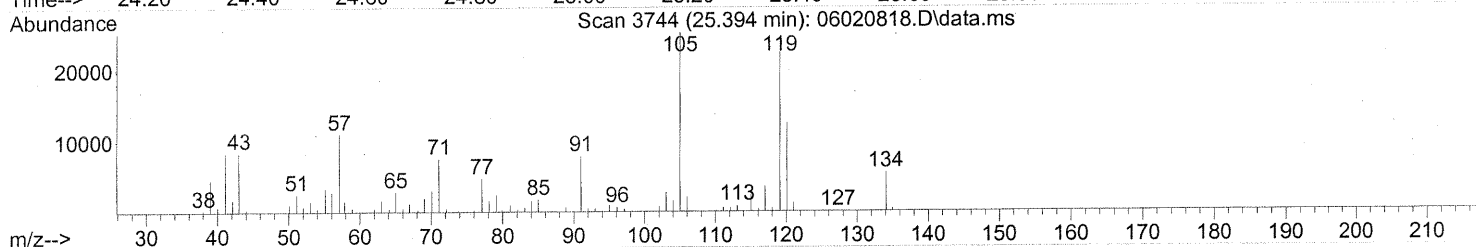
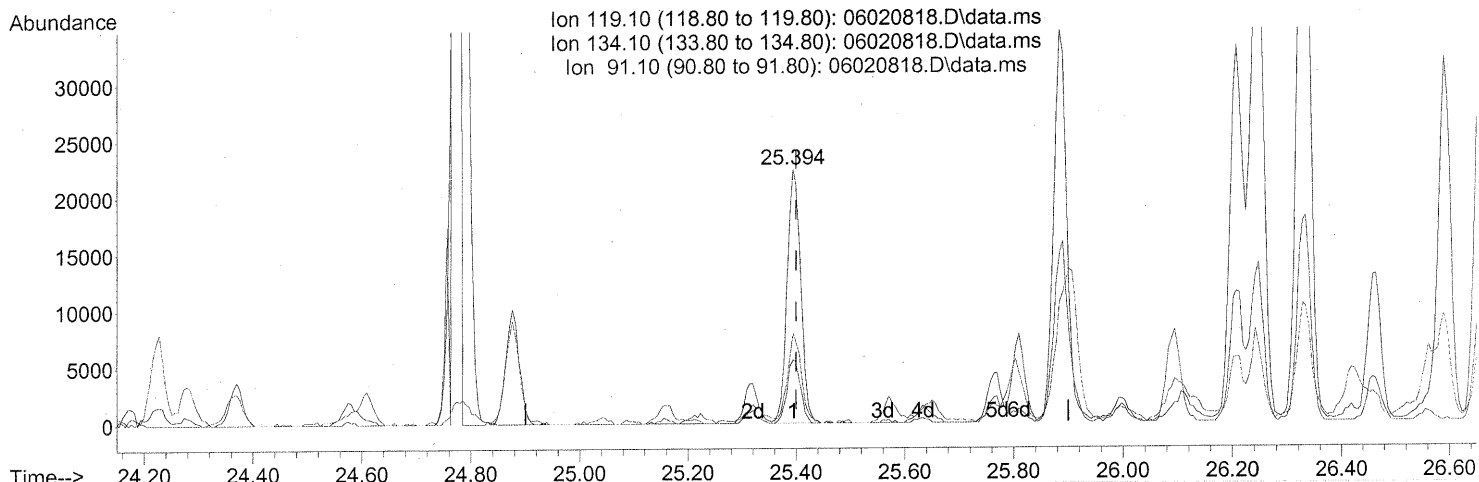
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.01
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 0.42ng

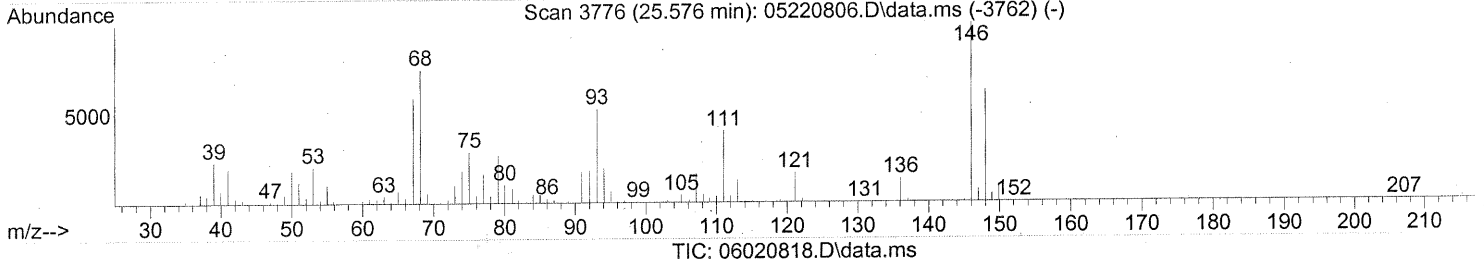
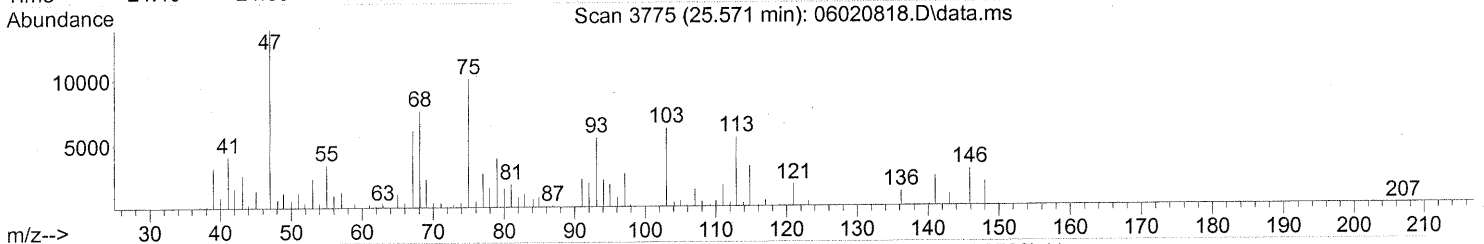
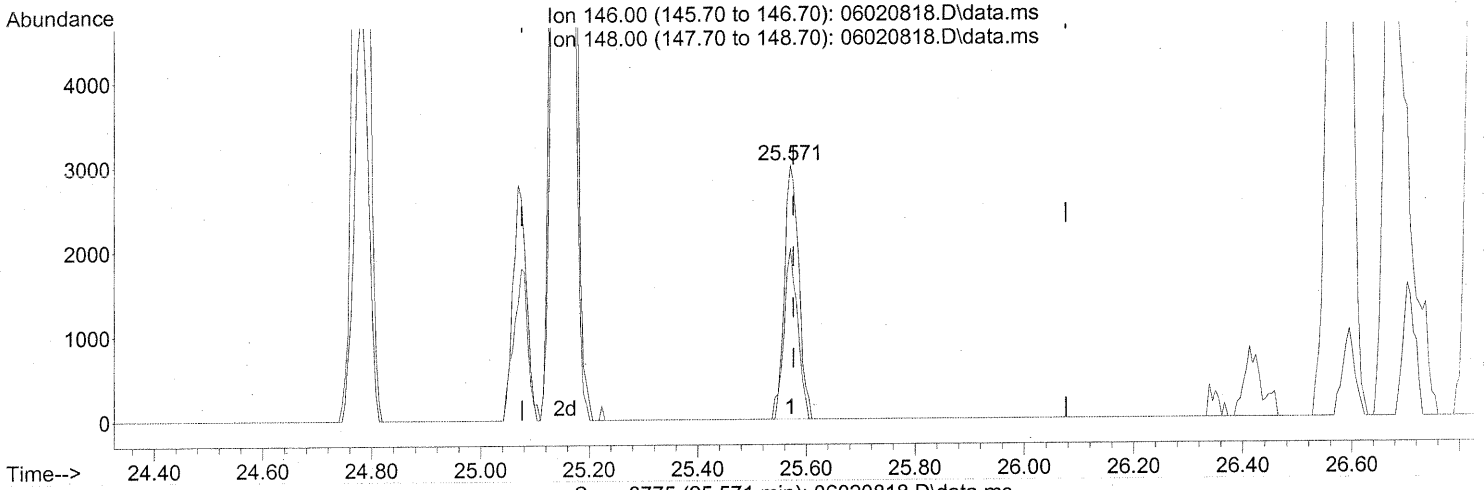
response 39339

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	24.79
91.10	27.10	36.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.571min (-0.006) 0.11ng

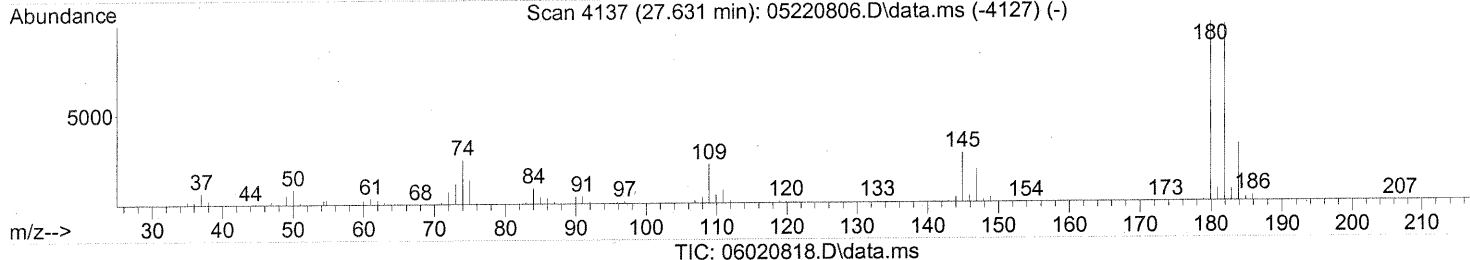
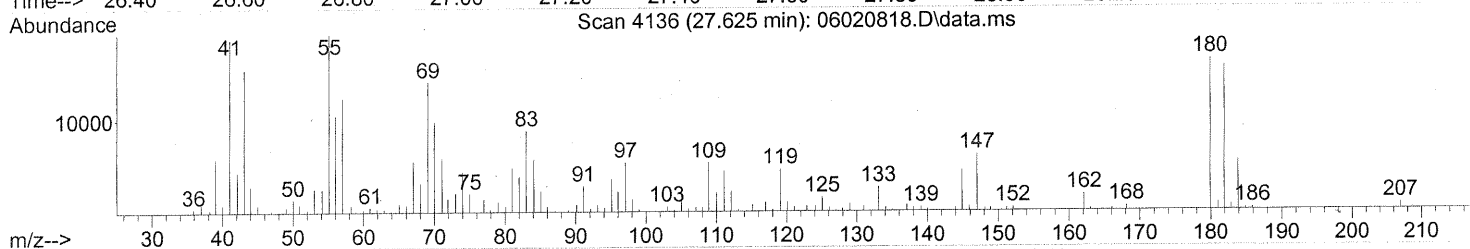
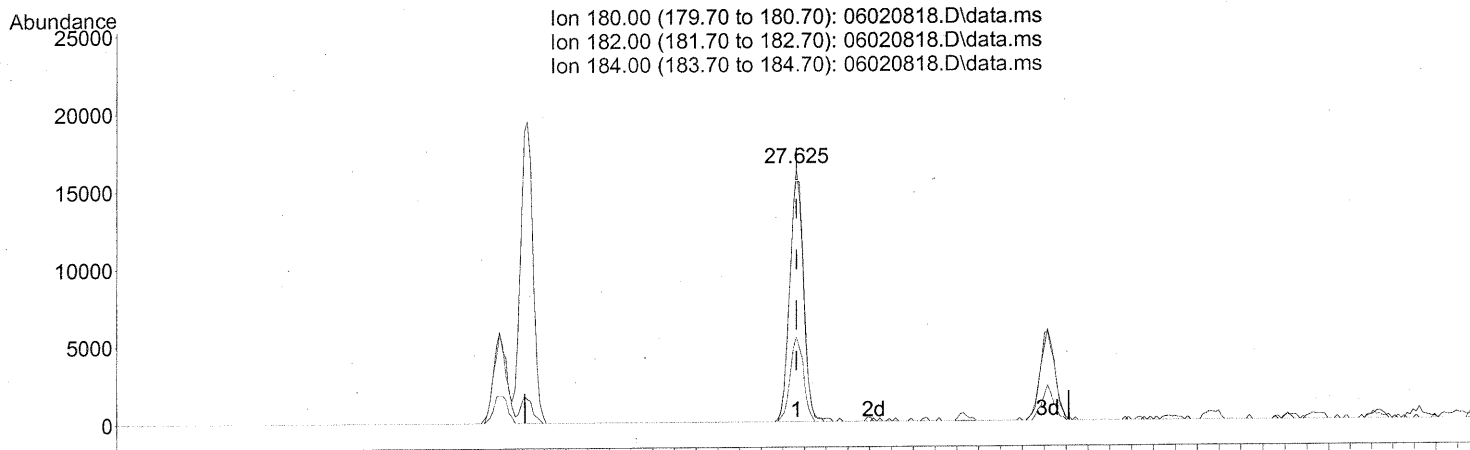
response 5591

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.625min (-0.000) 0.73ng

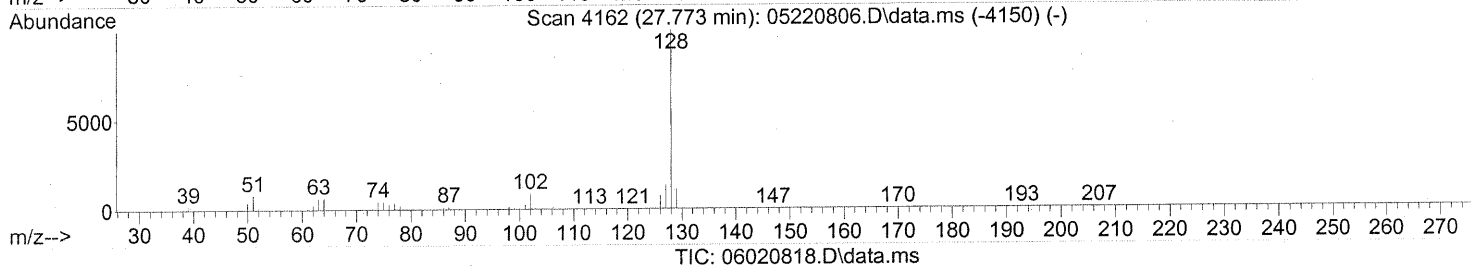
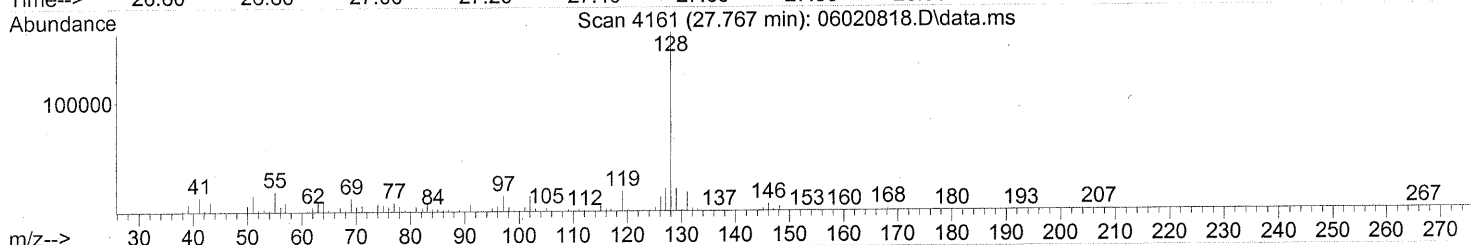
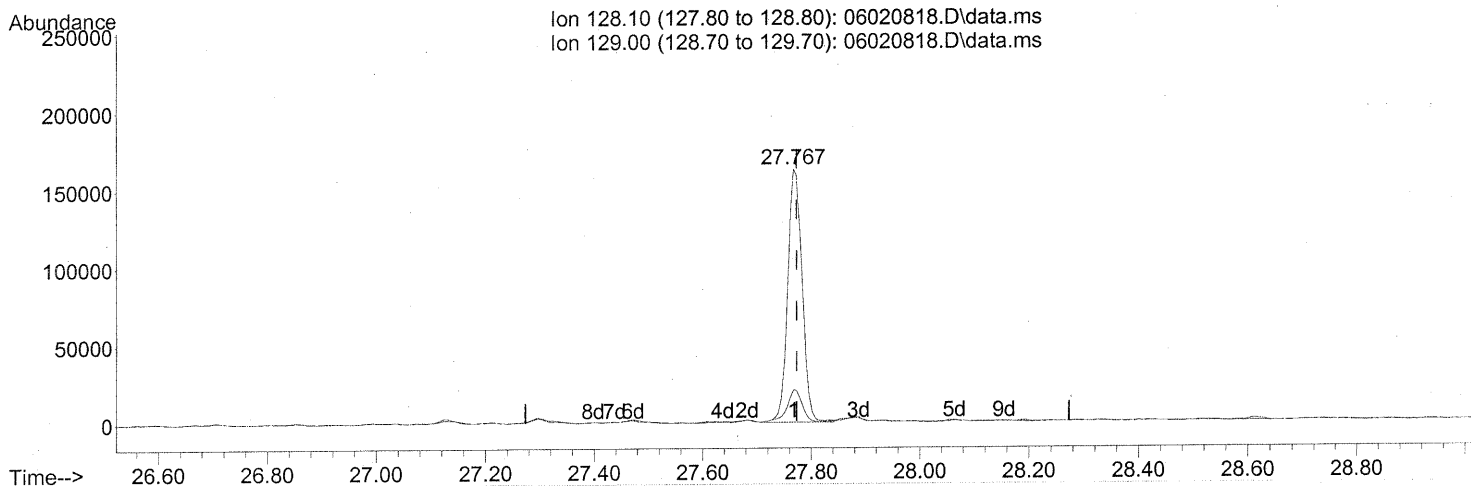
response 28098

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	101.61
184.00	30.30	33.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020818.D  
Acq On : 2 Jun 2008 9:46 pm  
Operator : RTB  
Sample : P0801548-013 (500mL)  
Misc : ENSR SG53B-05D (-1.6, 3.5)  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(95) Naphthalene (T)

27.767min (-0.006) 2.58ng

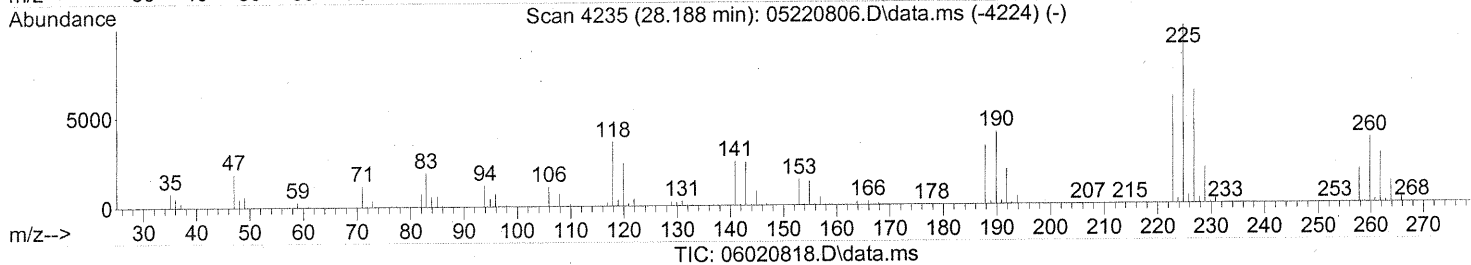
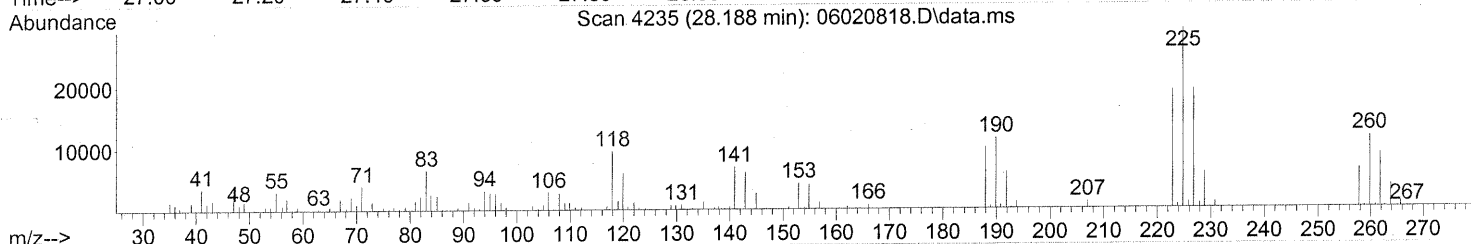
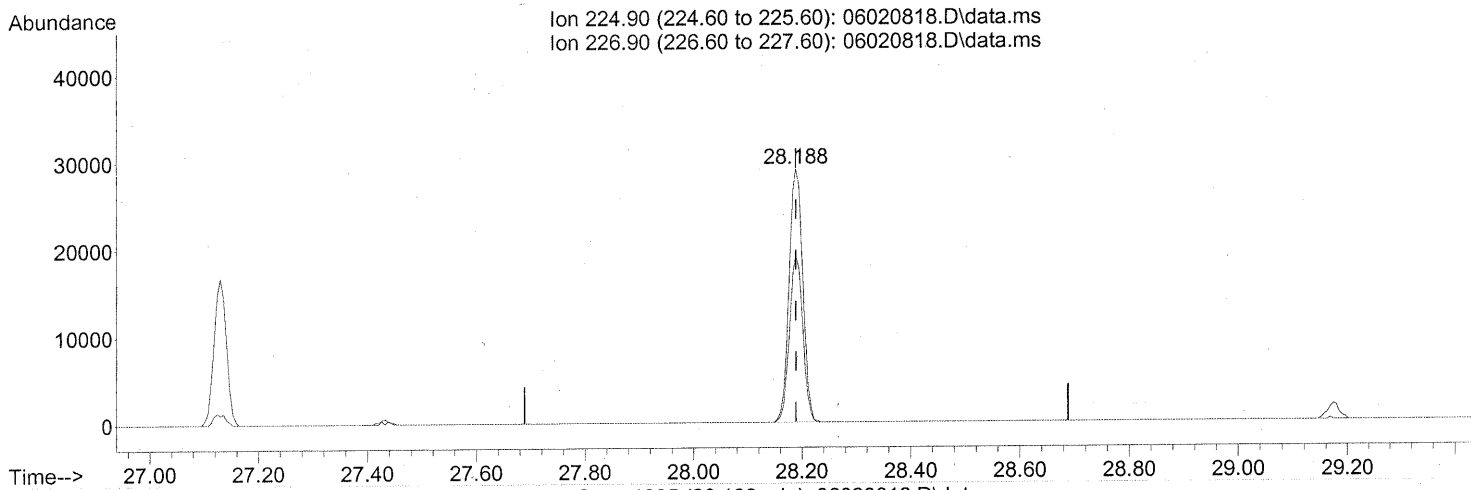
response 301063

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 07 18:19:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

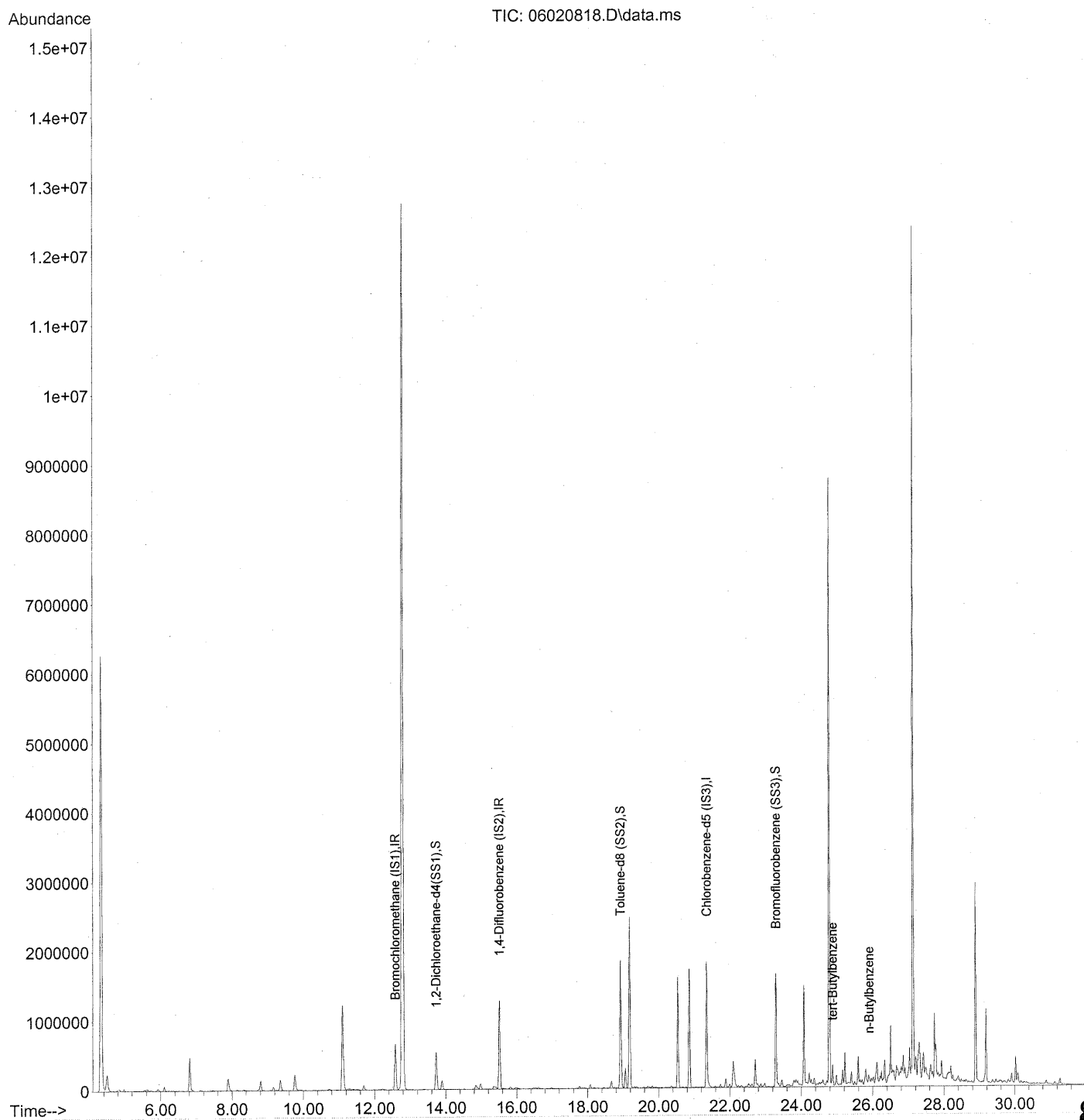
28.188min (-0.000) 2.00ng

response 51088

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	64.11
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020818.D  
Acq On : 2 Jun 2008 9:46 pm  
Operator : RTB  
Sample : P0801548-013 (500mL)  
Misc : ENSR SG53B-05D (-1.6, 3.5)  
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 17:23:00 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 17:23:00 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	355603	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1517332	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	719424	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	543108	22.042	ng	-0.02
Spiked Amount	25.000			Recovery	=	88.16% ✓
5) Toluene-d8 (SS2)	18.93	98	1577991	24.423	ng	-0.01
Spiked Amount	25.000			Recovery	=	97.68% ✓
6) Bromofluorobenzene (SS3)	23.29	174	642351	24.448	ng	0.00
Spiked Amount	25.000			Recovery	=	97.80% ✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	17478	<del>0.207</del>	ng	# 54
8) n-Butylbenzene	25.90	91	34207	0.366	ng	# 44

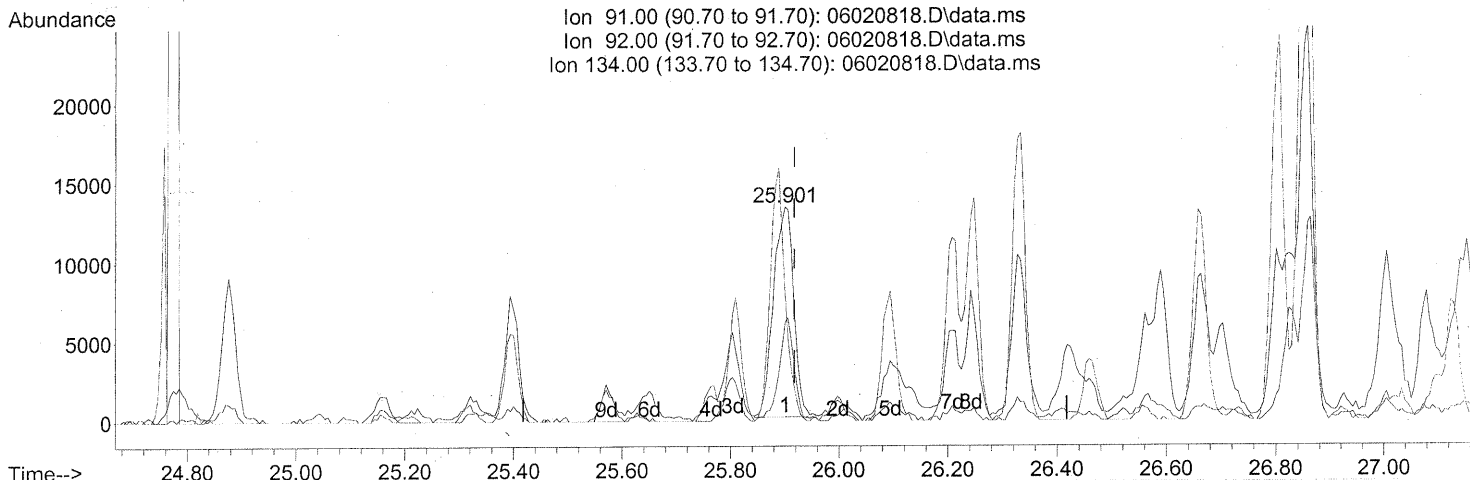
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/8/08

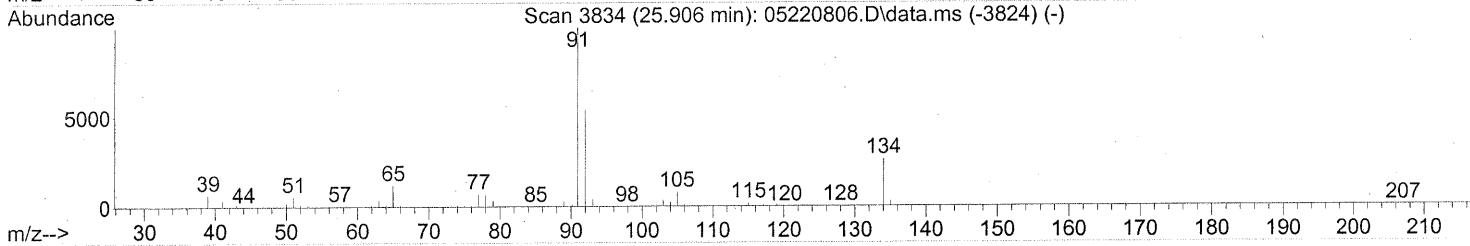
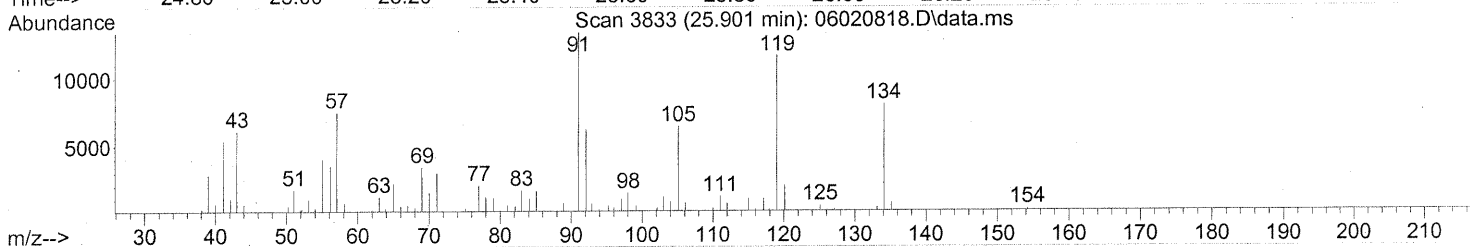
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020818.D  
 Acq On : 2 Jun 2008 9:46 pm  
 Operator : RTB  
 Sample : P0801548-013 (500mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 08 17:23:00 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Ion 91.00 (90.70 to 91.70): 06020818.D\data.ms  
 Ion 92.00 (91.70 to 92.70): 06020818.D\data.ms  
 Ion 134.00 (133.70 to 134.70): 06020818.D\data.ms



TIC: 06020818.D\data.ms

(8) n-Butylbenzene  
 25.901min (-0.017) 0.37ng  
 response 34207

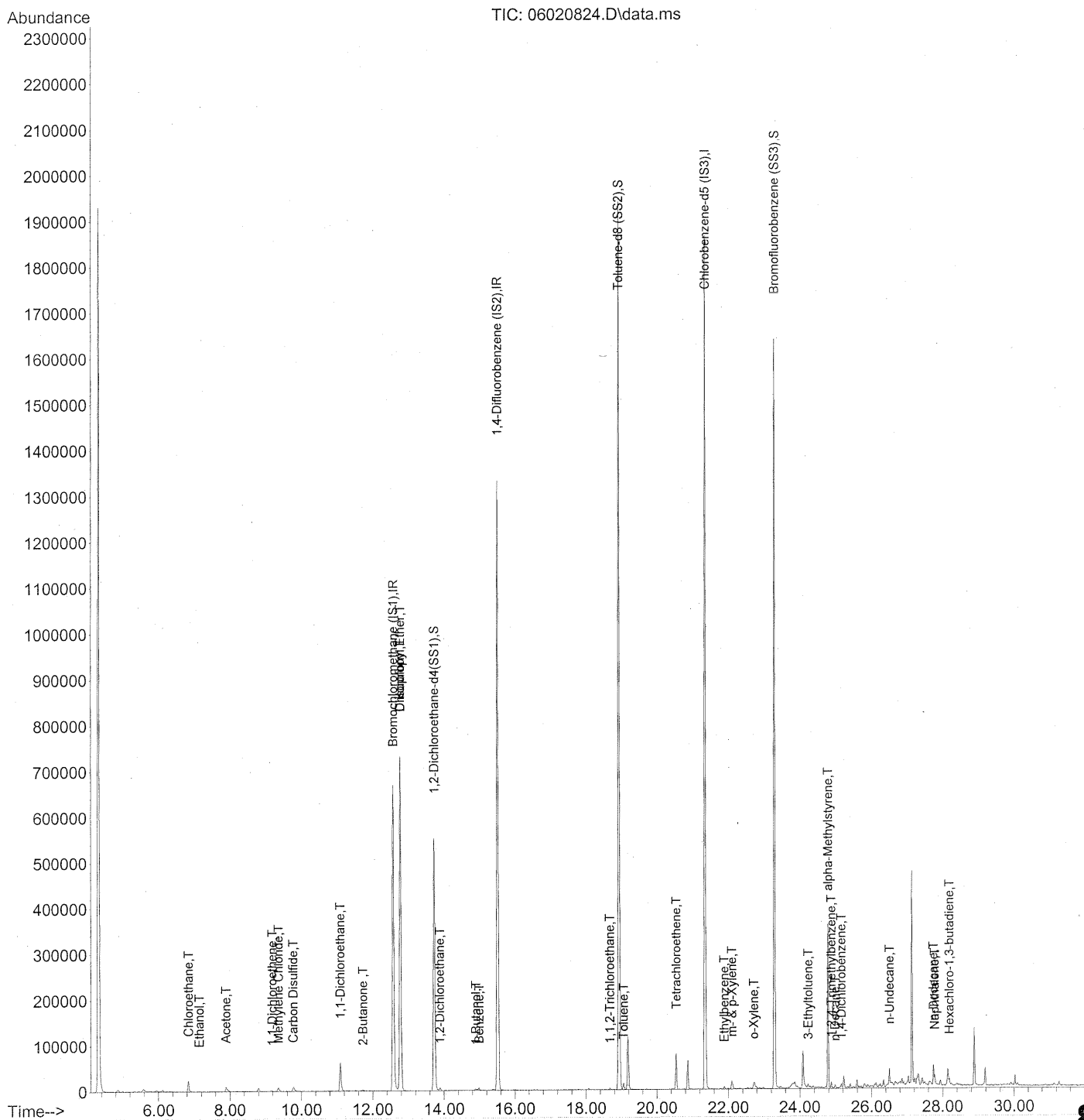
Ion	Exp%	Act%
91.00	100	100
92.00	55.70	37.33#
134.00	28.80	90.24#
0.00	0.00	0.00



Quantitation Report (Not Reviewed)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020824.D  
 Acq On : 3 Jun 2008 1:51 am  
 Operator : RTB  
 Sample : P0801548-013 DIL (25mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:52:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020824.D  
 Acq On : 3 Jun 2008 1:51 am  
 Operator : RTB  
 Sample : P0801548-013 DIL (25mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:52:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	372723	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1610601	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	748261	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	577691	22.369	ng	0.00
Spiked Amount	25.000		Recovery	=	89.48%	✓
57) Toluene-d8 (SS2)	18.92	98	1655774	24.639	ng	0.00
Spiked Amount	25.000		Recovery	=	98.56%	✓
73) Bromofluorobenzene (SS3)	23.29	174	651030	23.823	ng	0.00
Spiked Amount	25.000		Recovery	=	95.28%	✓

## Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.84	42	979	N.D.		
3) Dichlorodifluoromethane	4.99	85	1953	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.77	62	685	N.D.		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.50	94	56	N.D.		
9) Chloroethane	6.84	64	29618	1.774	ng	98
10) Ethanol	7.14	45	819	0.042	ng	# 46
11) Acetonitrile	7.47	41	1498	N.D.		
12) Acrolein	0.00	56	0	N.D.		
13) Acetone	7.88	58	5832	0.291	ng	# 70
14) Trichlorofluoromethane	8.17	101	778	N.D.		
15) Isopropanol	8.34	45	1292	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.18	96	1364	0.067	ng	# 66
18) tert-Butanol	9.28	59	1495	N.D.		
19) Methylene Chloride	9.36	84	5340	0.238	ng	# 77
20) Allyl Chloride	9.39	41	67	N.D.		
21) Trichlorotrifluoroethane	9.81	151	53	N.D.		
22) Carbon Disulfide	9.77	76	25267	0.297	ng	99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	81807	2.102	ng	94
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.72	72	727	0.050	ng	# 5
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.77	87	83959	4.679	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	462	N.D.		

*P08/07/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020824.D  
 Acq On : 3 Jun 2008 1:51 am  
 Operator : RTB  
 Sample : P0801548-013 DIL (25mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:52:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.77	83	794565	23.378	ng	100
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.88	62	6953	0.212	ng	95
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.89	56	3594	0.162	ng	# 4
41) Benzene	14.99	78	5967	0.071	ng	95
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.40	84	678	N.D.		
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	0.00	63	0	N.D.		
46) Bromodichloromethane	0.00	83	0	N.D.		
47) Trichloroethene	16.53	130	224	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	1100	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	0.00	71	0	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	394	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.67	97	1890	0.091	ng	92
58) Toluene	19.05	91	13468	0.147	ng	96
59) 2-Hexanone	19.36	43	89	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.19	43	54	N.D.		
63) n-Octane	20.35	57	56	N.D.		
64) Tetrachloroethene	20.54	166	29842	1.104	ng	99
65) Chlorobenzene	21.41	112	1528	N.D.		
66) Ethylbenzene	21.88	91	5879	0.056	ng	98
67) m- & p-Xylene	22.10	91	18354	0.262	ng	94
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.59	104	106	N.D.		
70) o-Xylene	22.71	91	6881	0.091	ng	86
71) n-Nonane	22.98	43	1693	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.76	83	60	N.D.		
74) Cumene	23.46	105	231	N.D.		
75) alpha-Pinene	23.95	93	527	N.D.		
76) n-Propylbenzene	24.10	91	1687	N.D.		
77) 3-Ethyltoluene	24.23	105	5281	0.049	ng	98
78) 4-Ethyltoluene	24.28	105	2631	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	2477	N.D.		

*7/06/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020824.D  
 Acq On : 3 Jun 2008 1:51 am  
 Operator : RTB  
 Sample : P0801548-013 DIL (25mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:52:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.79	118	4358	0.089	ng	# 12
81) 2-Ethyltoluene	24.61	105	2131	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	7002	0.076	ng	81
83) n-Decane	24.98	57	3286	0.065	ng	91
84) Benzyl Chloride	25.15	91	51	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	55	N.D.		
86) 1,4-Dichlorobenzene	25.15	146	4148	0.074	ng	96
87) sec-Butylbenzene	25.41	105	2314	N.D.		
88) p-Isopropyltoluene	25.40	119	1932	N.D.		
89) 1,2,3-Trimethylbenzene	25.41	105	2314	N.D.		
90) 1,2-Dichlorobenzene	25.58	146	128	N.D.		
91) d-Limonene	25.58	68	727	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	14789	0.279	ng	79
94) 1,2,4-Trichlorobenzene	27.62	180	1168	N.D.		
95) Naphthalene	27.77	128	14516	0.120	ng	94
96) n-Dodecane	27.73	57	13986	0.266	ng	# 67
97) Hexachloro-1,3-butadiene	28.18	225	2438	0.092	ng	97

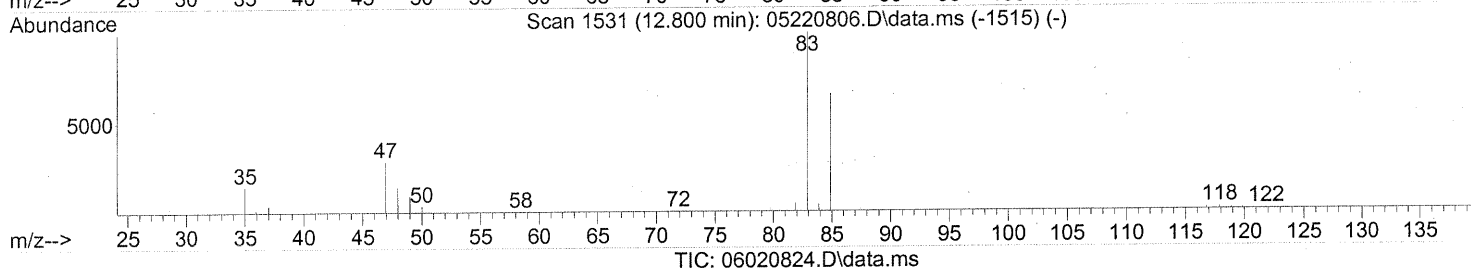
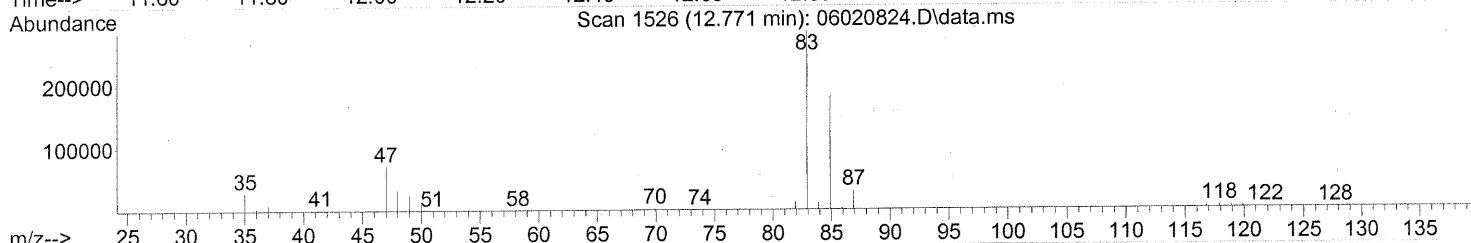
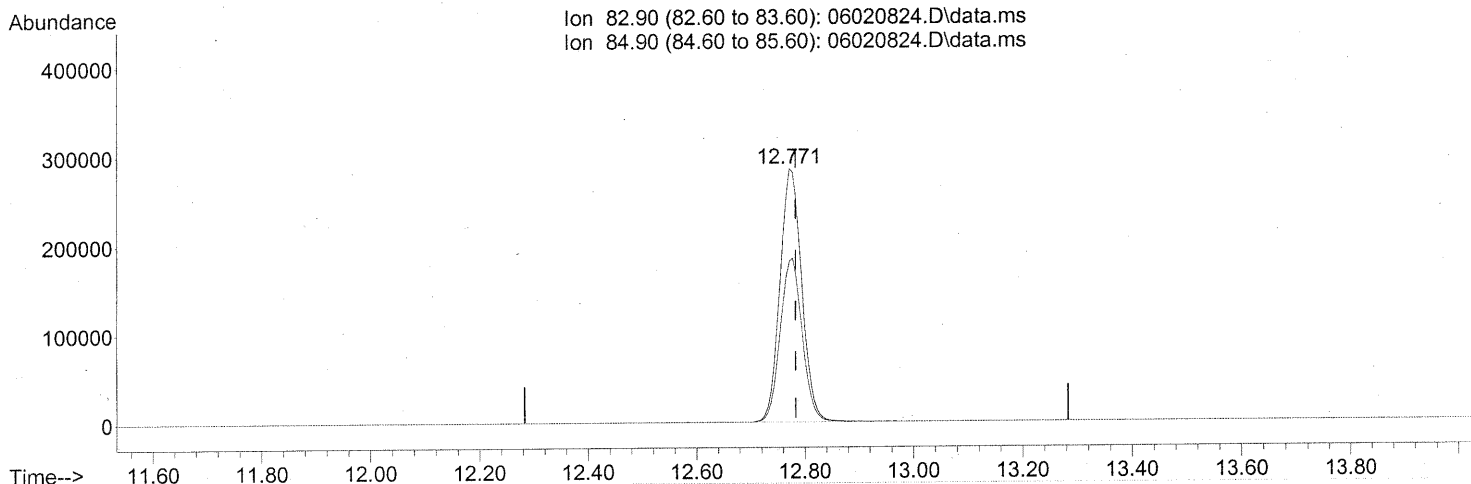
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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 6/07/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020824.D  
 Acq On : 3 Jun 2008 1:51 am  
 Operator : RTB  
 Sample : P0801548-013 DIL (25mL)  
 Misc : ENSR SG53B-05D (-1.6, 3.5)  
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 03 10:52:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)  
 12.771min (-0.012) 23.38ng  
 response 794565

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.97
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00547

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.82	0.082	0.40	0.16	0.016	
74-87-3	Chloromethane	ND	0.16	0.082	ND	0.079	0.039	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.093	0.82	0.082	0.013	0.12	0.012	J
75-01-4	Vinyl Chloride	ND	0.16	0.082	ND	0.064	0.032	
74-83-9	Bromomethane	ND	0.16	0.082	ND	0.042	0.021	
75-00-3	Chloroethane	ND	0.16	0.082	ND	0.062	0.031	
64-17-5	Ethanol	4.1	8.2	0.082	2.2	4.3	0.043	J
67-64-1	Acetone	16	8.2	0.12	6.6	3.4	0.050	B, M
75-69-4	Trichlorofluoromethane	1.1	0.16	0.082	0.19	0.029	0.015	
107-13-1	Acrylonitrile	0.11	0.82	0.11	0.053	0.38	0.053	J
75-35-4	1,1-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.46	0.82	0.12	0.15	0.27	0.040	J
75-09-2	Methylene Chloride	0.15	0.82	0.082	0.043	0.23	0.023	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.082	ND	0.052	0.026	
76-13-1	Trichlorotrifluoroethane	0.49	0.16	0.091	0.064	0.021	0.012	
75-15-0	Carbon Disulfide	2.5	0.82	0.20	0.80	0.26	0.063	
156-60-5	trans-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
75-34-3	1,1-Dichloroethane	ND	0.16	0.082	ND	0.040	0.020	
1634-04-4	Methyl tert-Butyl Ether	ND	0.16	0.082	ND	0.045	0.023	
108-05-4	Vinyl Acetate	7.4	8.2	0.26	2.1	2.3	0.074	J
78-93-3	2-Butanone (MEK)	3.3	0.82	0.082	1.1	0.28	0.028	
156-59-2	cis-1,2-Dichloroethene	ND	0.16	0.082	ND	0.041	0.021	
108-20-3	Diisopropyl Ether	ND	0.82	0.096	ND	0.20	0.023	
67-66-3	Chloroform	1.3	0.16	0.096	0.27	0.033	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00547

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.82	0.083	ND	0.20	0.020	
107-06-2	1,2-Dichloroethane	ND	0.16	0.082	ND	0.040	0.020	
71-55-6	1,1,1-Trichloroethane	ND	0.16	0.082	ND	0.030	0.015	
71-43-2	<b>Benzene</b>	<b>2.9</b>	0.16	0.082	<b>0.90</b>	0.051	0.026	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.12</b>	0.16	0.082	<b>0.019</b>	0.026	0.013	<b>J</b>
994-05-8	tert-Amyl Methyl Ether	ND	0.82	0.082	ND	0.20	0.020	
78-87-5	1,2-Dichloropropane	ND	0.16	0.082	ND	0.035	0.018	
75-27-4	Bromodichloromethane	ND	0.16	0.082	ND	0.024	0.012	
79-01-6	<b>Trichloroethene</b>	<b>0.14</b>	0.16	0.082	<b>0.026</b>	0.030	0.015	<b>J</b>
123-91-1	<b>1,4-Dioxane</b>	<b>0.83</b>	0.82	0.099	<b>0.23</b>	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.82	0.12	ND	0.20	0.030	
142-82-5	<b>n-Heptane</b>	<b>0.16</b>	0.82	0.10	<b>0.040</b>	0.20	0.025	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.085	ND	0.18	0.019	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.51</b>	0.82	0.091	<b>0.13</b>	0.20	0.022	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	0.82	0.10	ND	0.18	0.023	
79-00-5	1,1,2-Trichloroethane	ND	0.16	0.082	ND	0.030	0.015	
108-88-3	<b>Toluene</b>	<b>3.2</b>	0.82	0.082	<b>0.85</b>	0.22	0.022	
591-78-6	<b>2-Hexanone</b>	<b>0.47</b>	0.82	0.12	<b>0.11</b>	0.20	0.030	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.16	0.11	ND	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.088	ND	0.021	0.011	
111-65-9	<b>n-Octane</b>	<b>0.34</b>	0.82	0.082	<b>0.073</b>	0.17	0.017	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>0.52</b>	0.16	0.082	<b>0.076</b>	0.024	0.012	
108-90-7	Chlorobenzene	ND	0.16	0.083	ND	0.035	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG49B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-014

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00547

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	1.1	0.82	0.10	0.24	0.19	0.023	
179601-23-1	m,p-Xylenes	6.1	0.82	0.21	1.4	0.19	0.049	
75-25-2	Bromoform	ND	0.82	0.12	ND	0.079	0.012	
100-42-5	Styrene	0.15	0.82	0.12	0.034	0.19	0.029	J
95-47-6	o-Xylene	2.9	0.82	0.10	0.68	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	0.17	0.16	0.10	0.024	0.024	0.015	
98-82-8	Cumene	0.14	0.82	0.091	0.029	0.17	0.019	J
103-65-1	n-Propylbenzene	0.68	0.82	0.085	0.14	0.17	0.017	J
622-96-8	4-Ethyltoluene	0.86	0.82	0.093	0.17	0.17	0.019	
108-67-8	1,3,5-Trimethylbenzene	0.77	0.82	0.098	0.16	0.17	0.020	J
98-83-9	alpha-Methylstyrene	ND	0.82	0.12	ND	0.17	0.025	
95-63-6	1,2,4-Trimethylbenzene	3.1	0.82	0.11	0.63	0.17	0.023	
100-44-7	Benzyl Chloride	ND	0.16	0.14	ND	0.031	0.027	
541-73-1	1,3-Dichlorobenzene	ND	0.16	0.10	ND	0.027	0.017	
106-46-7	1,4-Dichlorobenzene	0.35	0.16	0.091	0.058	0.027	0.015	
135-98-8	sec-Butylbenzene	0.12	0.82	0.095	0.021	0.15	0.017	J
99-87-6	4-Isopropyltoluene (p-Cymene)	1.0	0.82	0.11	0.19	0.15	0.019	
95-50-1	1,2-Dichlorobenzene	ND	0.16	0.11	ND	0.027	0.018	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.82	0.12	ND	0.084	0.013	
120-82-1	1,2,4-Trichlorobenzene	0.14	0.16	0.12	0.019	0.022	0.017	J
91-20-3	Naphthalene	1.3	0.33	0.12	0.25	0.062	0.023	
87-68-3	Hexachlorobutadiene	ND	0.16	0.15	ND	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.082	ND	0.059	0.015	
104-51-8	n-Butylbenzene	0.39	0.33	0.082	0.071	0.059	0.015	

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

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

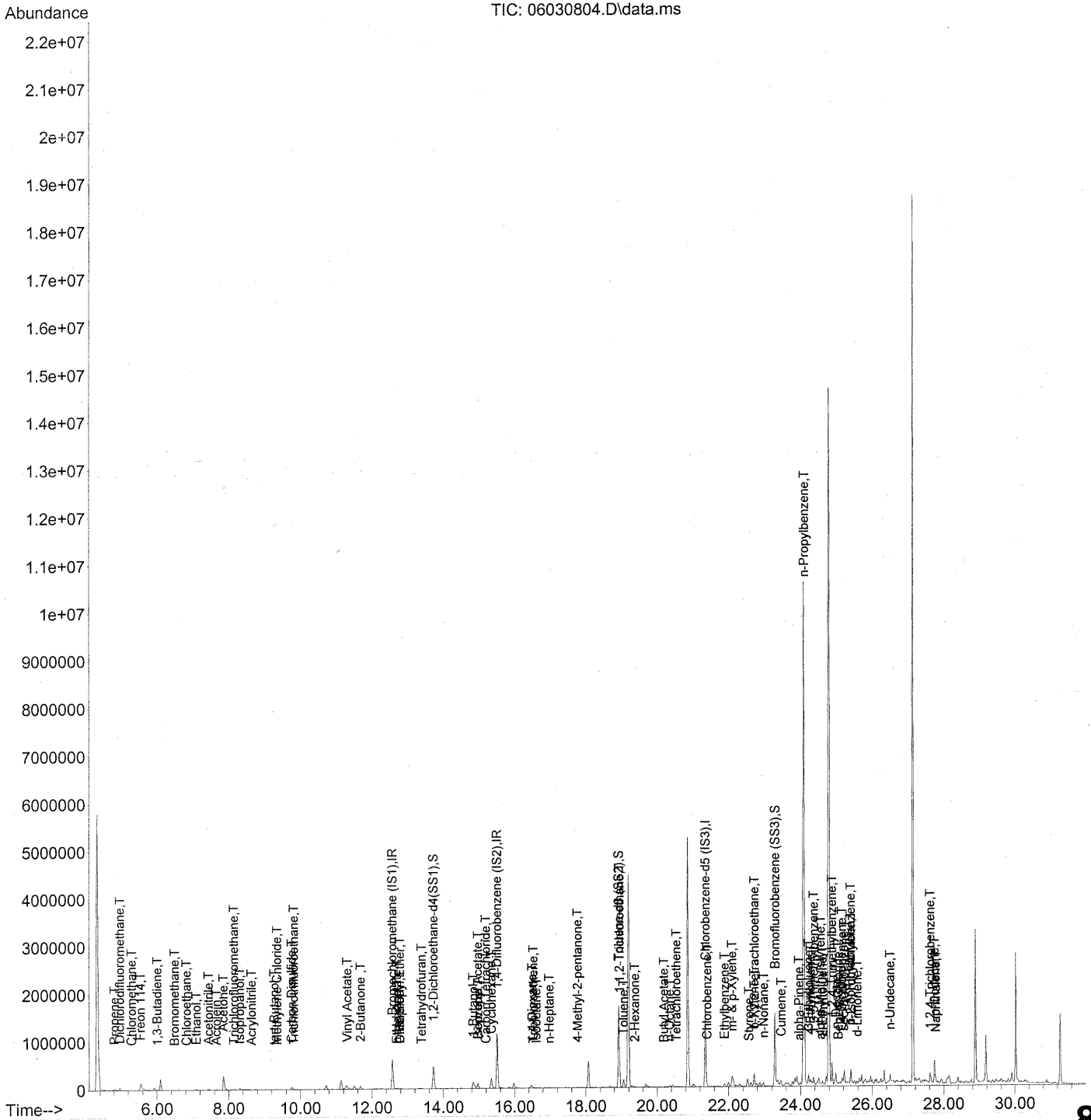
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	322556	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1372542	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	672270	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	500336	22.387	ng	-0.01
Spiked Amount				25.000		
				Recovery =		89.56% ✓
57) Toluene-d8 (SS2)	18.92	98	1436562	23.793	ng	0.00
Spiked Amount				25.000		
				Recovery =		95.16% ✓
73) Bromofluorobenzene (SS3)	23.29	174	597043	24.317	ng	0.00
Spiked Amount				25.000		
				Recovery =		97.28% ✓

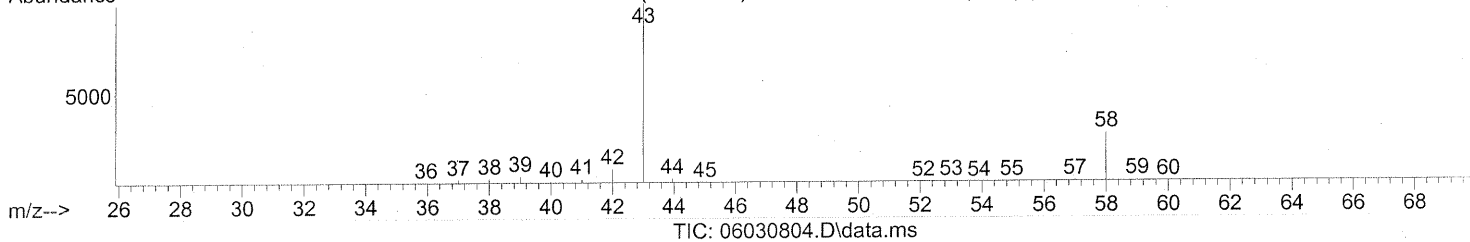
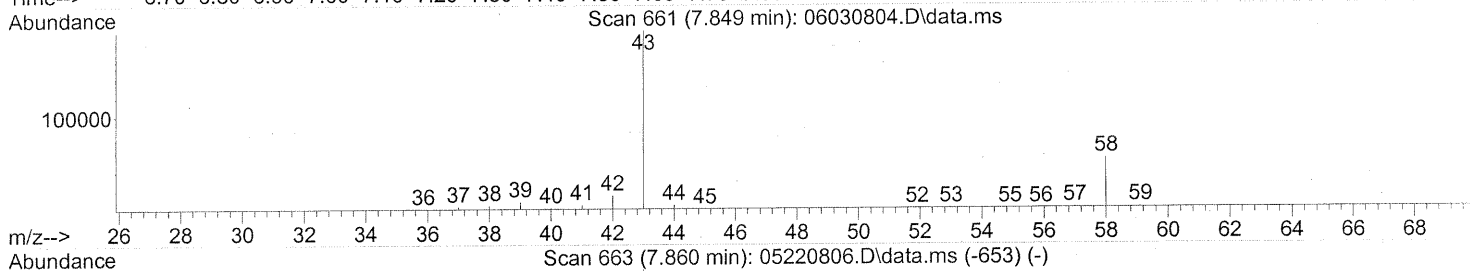
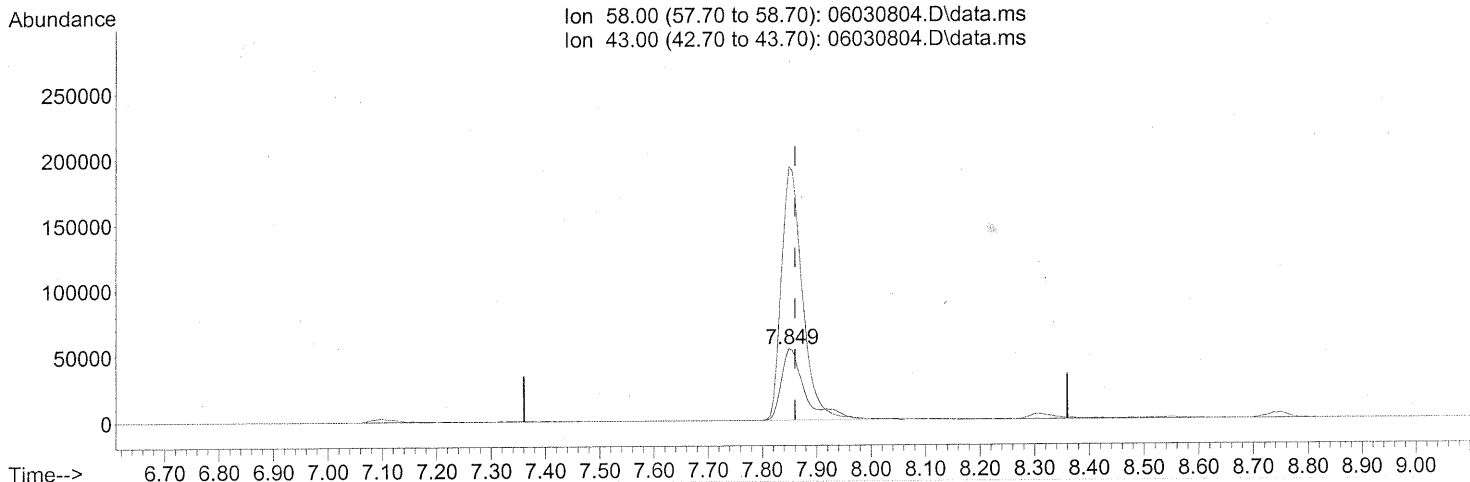
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	13327	0.523	ng	# 70
3) Dichlorodifluoromethane	4.96	85	57139	1.217	ng	99
4) Chloromethane	5.29	50	1372	<del>0.045</del>	ng	88
5) Freon 114	5.54	135	1311	0.057	ng	# 52
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.01	54	1493	0.066	ng	# 63
8) Bromomethane	6.49	94	729	<del>0.043</del>	ng	94
9) Chloroethane	6.82	64	681	<del>0.047</del>	ng	# 45
10) Ethanol	7.10	45	42765m	2.522	ng	
11) Acetonitrile	7.43	41	36772	0.750	ng	94
12) Acrolein	7.65	56	11675	0.964	ng	99
13) Acetone	7.85	58	167758	9.661	ng	M 85
14) Trichlorofluoromethane	8.14	101	26331	0.654	ng	100
15) Isopropanol	8.31	45	63599	1.148	ng	93
16) Acrylonitrile	8.64	53	1859	0.070	ng	88
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	9.27	59	13447m	0.285	ng	
19) Methylene Chloride	9.35	84	1779	0.092	ng	90
20) Allyl Chloride	9.54	41	188	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	5491	0.300	ng	# 83
22) Carbon Disulfide	9.76	76	112698	1.530	ng	100
23) trans-1,2-Dichloroethene	10.72	61	879	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	329	N.D.	✓	
25) Methyl tert-Butyl Ether	11.20	73	72	N.D.	✓	
26) Vinyl Acetate	11.30	86	14507	4.521	ng	# 1
27) 2-Butanone	11.68	72	25708	2.029	ng	# 88
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	2350	<del>0.151</del>	ng	MR 1
30) Ethyl Acetate	12.69	61	1520	0.222	ng	95
31) n-Hexane	12.70	57	4015	0.116	ng	97

06/07/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



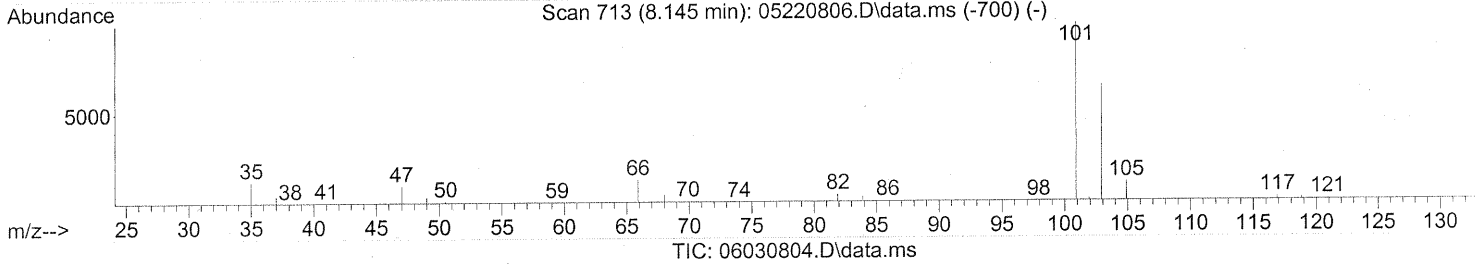
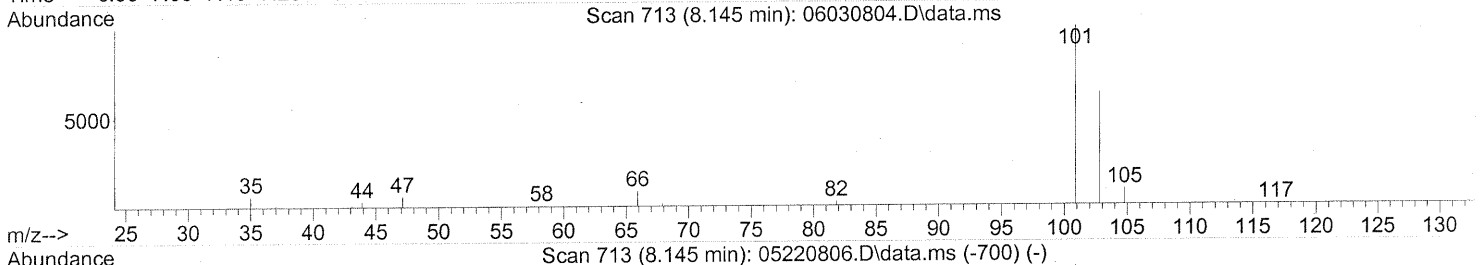
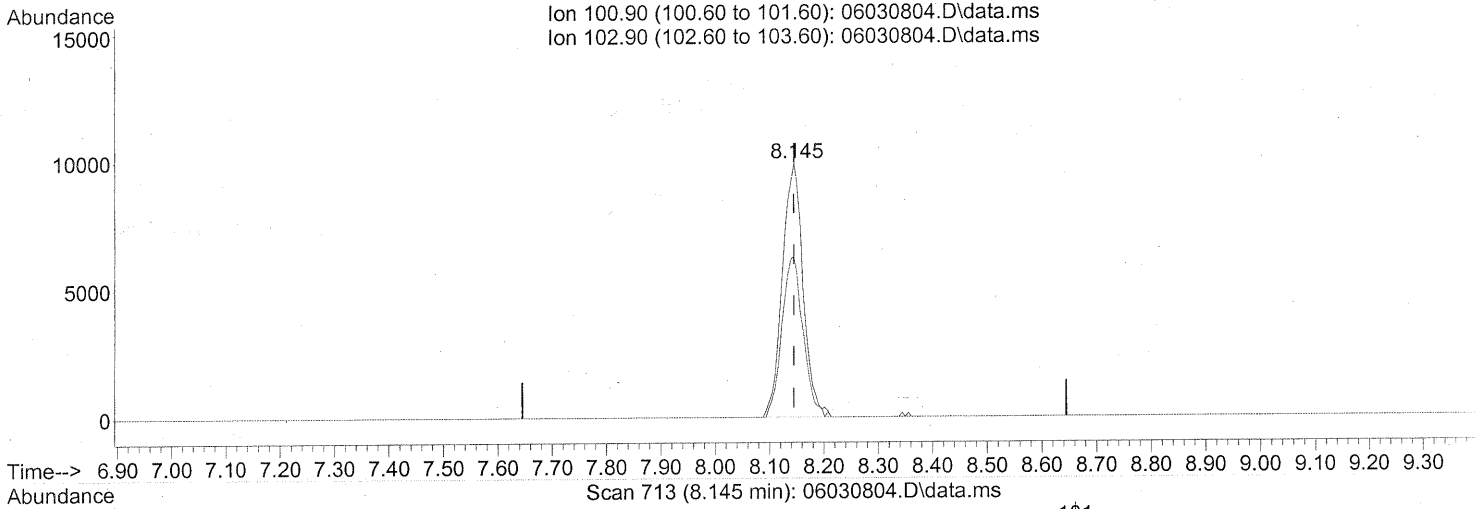
(13) Acetone (T)  
7.849min (-0.011) 9.66ng  
response 167758

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	311.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
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Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (+0.000) 0.65ng

response 26331

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
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 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	23907	0.813 ng		99
34) Tetrahydrofuran	13.38	72	3172	0.262 ng	#	75
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.73	62	198	N.D. ✓		
38) 1,1,1-Trichloroethane	14.30	97	846	N.D. ✓		
39) Isopropyl Acetate	14.97	61	1122	0.096 ng	#	1
40) 1-Butanol	14.84	56	148643	7.879 ng		87
41) Benzene	14.97	78	127037	1.768 ng		100
42) Carbon Tetrachloride	15.19	117	2053	0.074 ng		97
43) Cyclohexane	15.34	84	11181	0.400 ng	#	1
44) tert-Amyl Methyl Ether	15.86	73	756	N.D. ✓		
45) 1,2-Dichloropropane	0.00	63	0	N.D. ✓		
46) Bromodichloromethane	16.46	83	670	N.D. ✓		
47) Trichloroethene	16.53	130	1897	0.086 ng		93
48) 1,4-Dioxane	16.49	88	6933	0.511 ng		89
49) Isooctane	16.61	57	5620	0.068 ng	#	16
50) Methyl Methacrylate	16.70	100	203	N.D. ✓		
51) n-Heptane	16.97	71	1910	0.100 ng	#	76
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	6006	0.315 ng		89
54) trans-1,3-Dichloropropene	18.43	75	230	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	127643	<del>7.187 ng</del>	#	8
58) Toluene	19.05	91	161289	1.965 ng		97
59) 2-Hexanone	19.37	43	16185	0.286 ng		74
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	4228	0.074 ng		88
63) n-Octane	20.35	57	3773	0.208 ng		93
64) Tetrachloroethene	20.53	166	7697	0.317 ng		99
65) Chlorobenzene	21.40	112	4662	<del>0.085 ng</del>	#	55
66) Ethylbenzene	21.88	91	60952	0.648 ng		95
67) m- & p-Xylene	22.09	91	234090	3.719 ng		91
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	5026	0.089 ng	#	57
70) o-Xylene	22.71	91	122672	1.805 ng		91
71) n-Nonane	22.98	43	41435	0.859 ng		86
72) 1,1,2,2-Tetrachloroethane	22.72	83	2931	0.103 ng		92
74) Cumene	23.46	105	7988	0.088 ng		99
75) alpha-Pinene	23.96	93	2853	0.061 ng	#	46
76) n-Propylbenzene	24.10	91	47947	0.416 ng	#	1
77) 3-Ethyltoluene	24.22	105	98813	1.026 ng		100
78) 4-Ethyltoluene	24.28	105	47272	0.526 ng		99
79) 1,3,5-Trimethylbenzene	24.37	105	38363	0.473 ng		99

*Fac/07.0*

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	2797	<del>0.064</del>	ng	#NO; < 69
81) 2-Ethyltoluene	24.61	105	55023	0.564	ng	Excl. 100
82) 1,2,4-Trimethylbenzene	24.88	105	157698	1.909	ng	88
83) n-Decane	24.98	57	84945	1.869	ng	83
84) Benzyl Chloride	25.05	91	3065	<del>0.055</del>	ng	91
85) 1,3-Dichlorobenzene	25.07	146	1488	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	10766	0.215	ng	98
87) sec-Butylbenzene	25.21	105	7445	0.071	ng	# 10
88) p-Isopropyltoluene	25.40	119	55257	0.636	ng	91
89) 1,2,3-Trimethylbenzene	25.40	105	61090	0.756	ng	96
90) 1,2-Dichlorobenzene	25.57	146	998	N.D.	✓	
91) d-Limonene	25.58	68	10630	0.323	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.10	157	336	N.D.	✓	
93) n-Undecane	26.50	57	77980	1.640	ng	67
94) 1,2,4-Trichlorobenzene	27.62	180	3153	0.088	ng	# 79
95) Naphthalene	27.77	128	87421	0.803	ng	96
96) n-Dodecane	27.73	57	158282	3.347	ng	82
97) Hexachloro-1,3-butadiene	28.18	225	571	N.D.	✓	

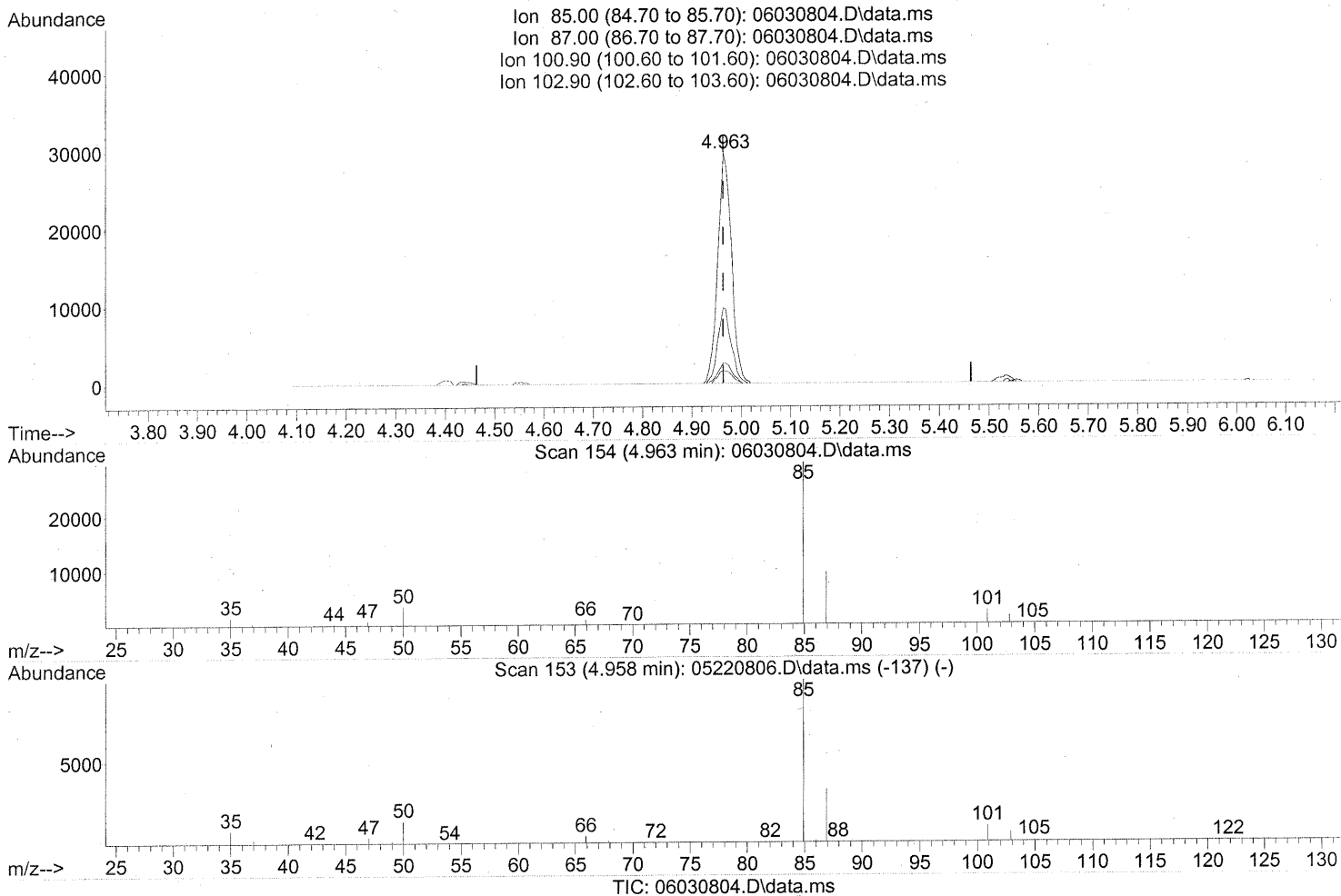
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/7/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (+0.000) 1.22ng

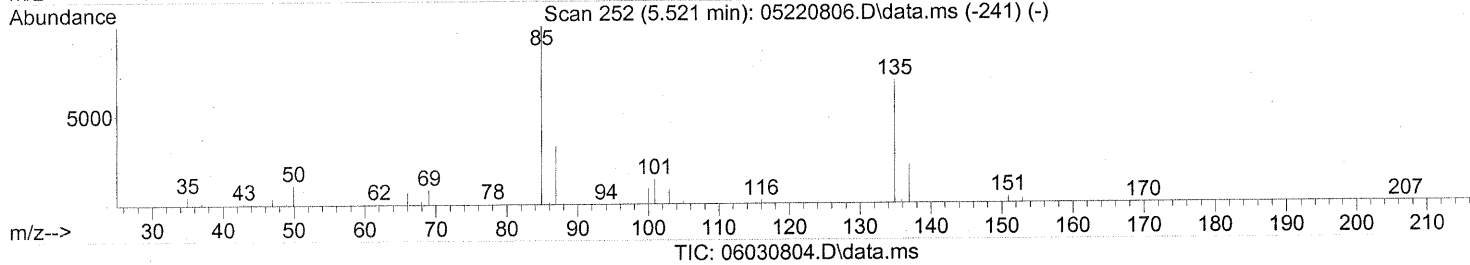
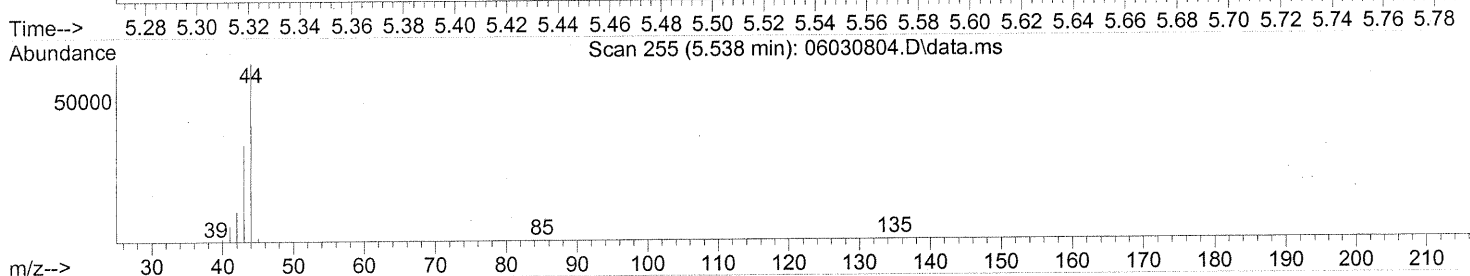
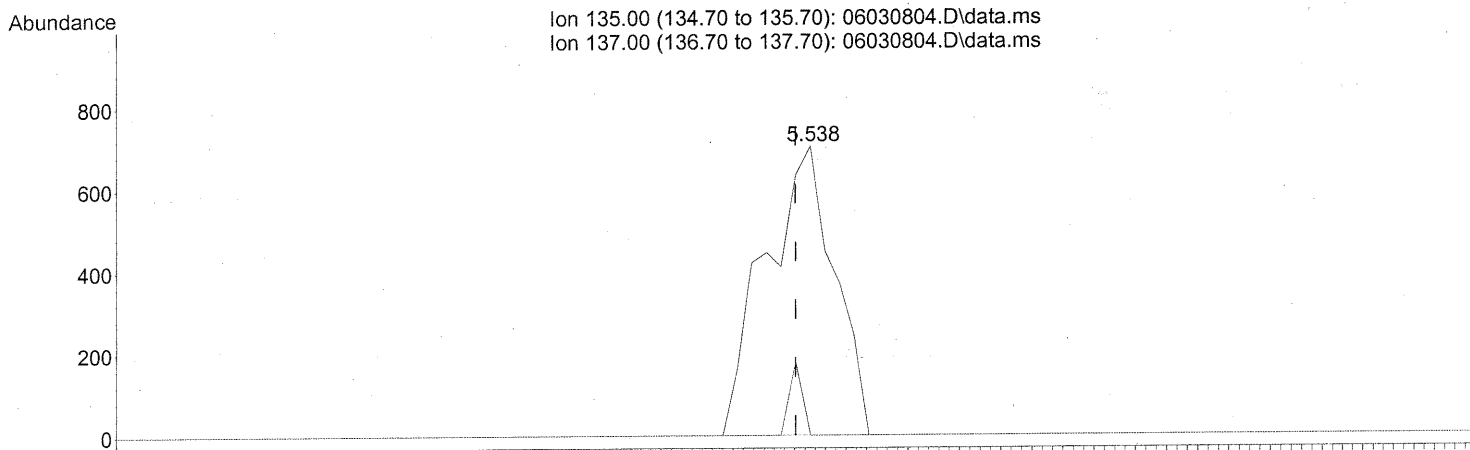
response 57139

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.92
100.90	9.30	9.09
102.90	6.00	5.74

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(5) Freon 114 (T)

5.538min (+0.006) 0.06ng

response 1311

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	4.65#
0.00	0.00	0.00
0.00	0.00	0.00

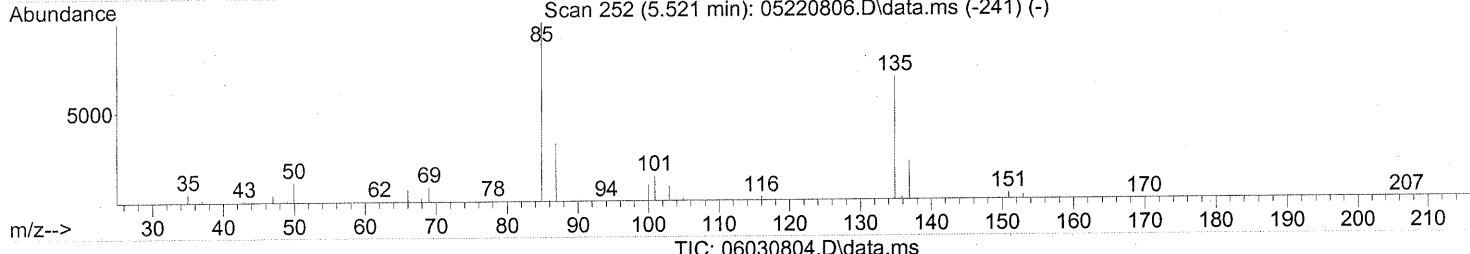
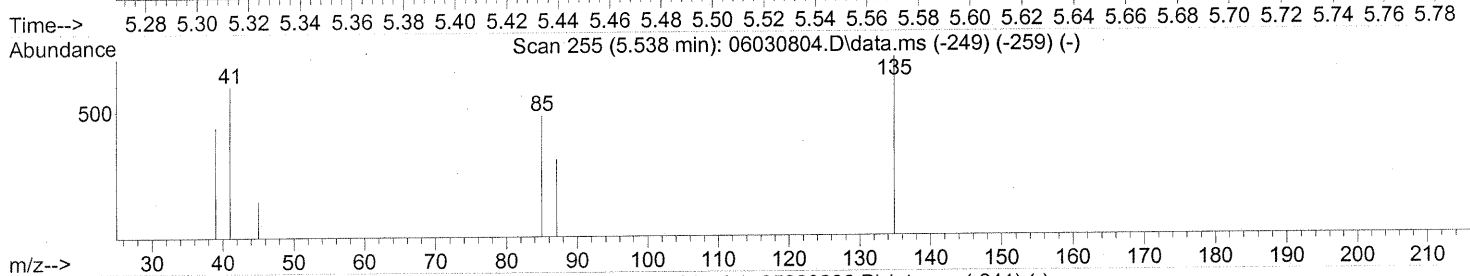
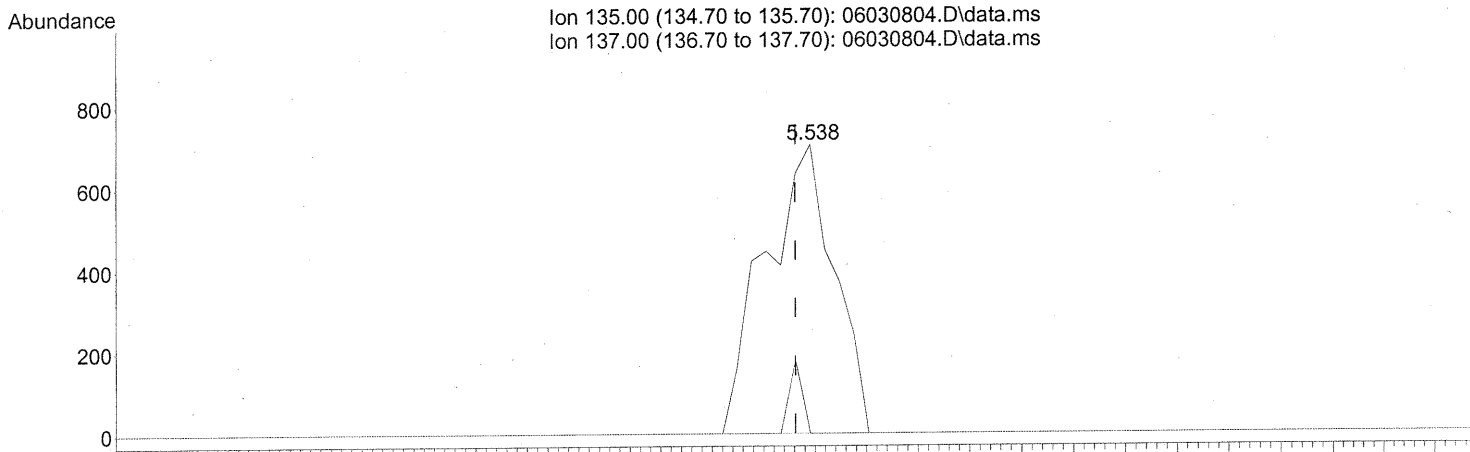
BEFORE SUBTRACTION



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)

5.538min (+0.006) 0.06ng

response 1311

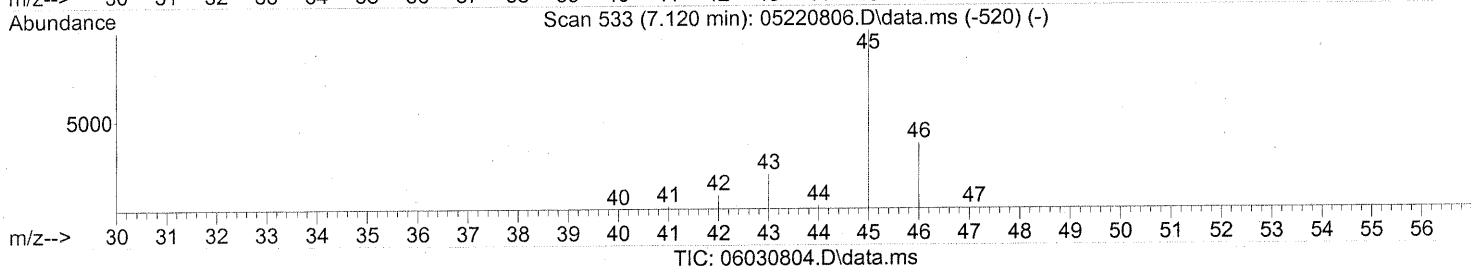
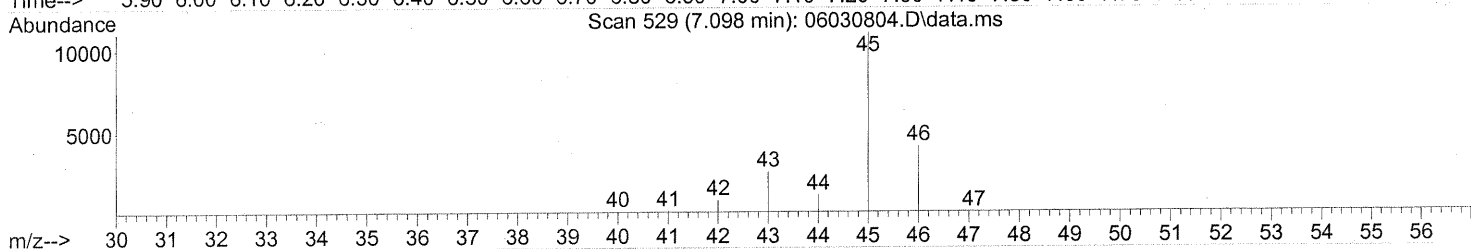
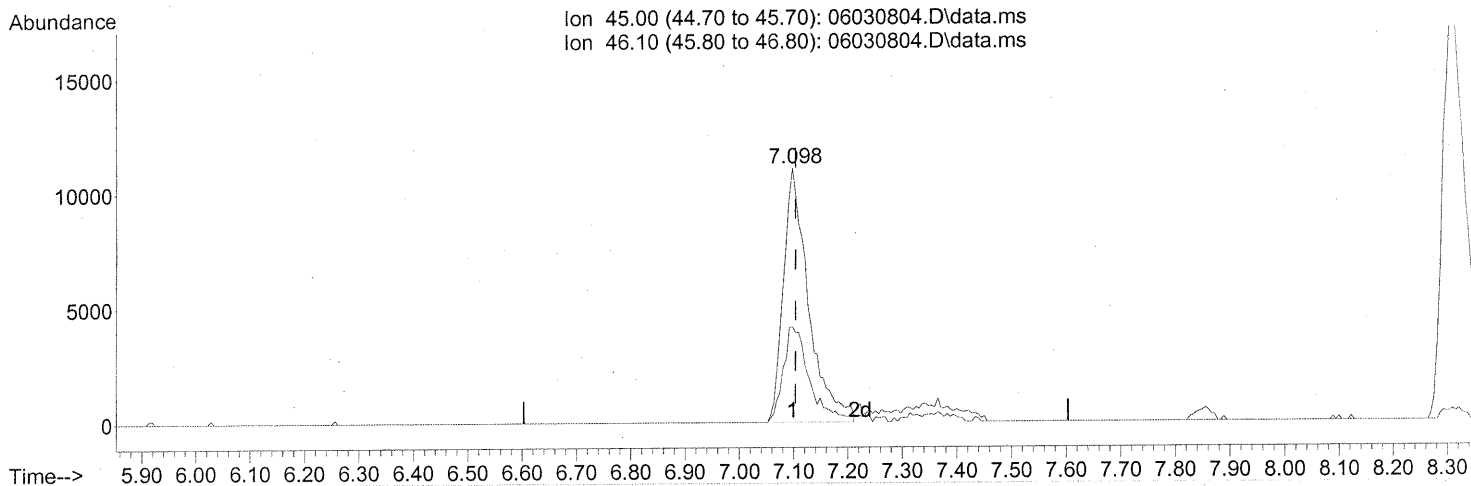
Ion	Exp%	Act%
135.00	100	100
137.00	31.50	4.65#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 6/6/07/08  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 12:29:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.098min (-0.006) 2.09ng  
 response 35391

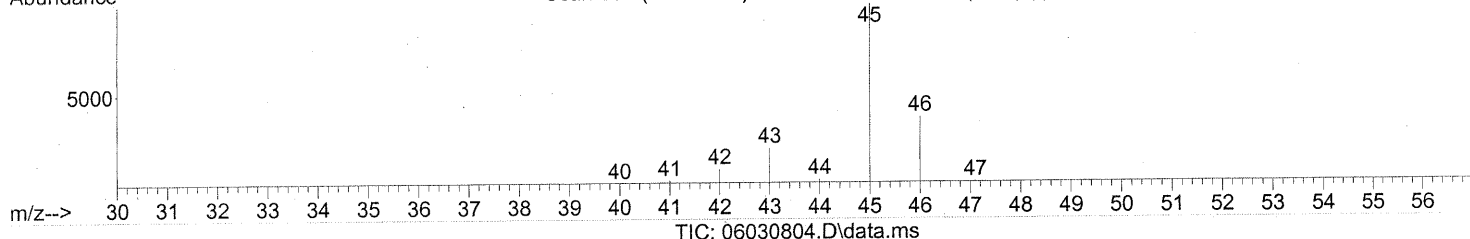
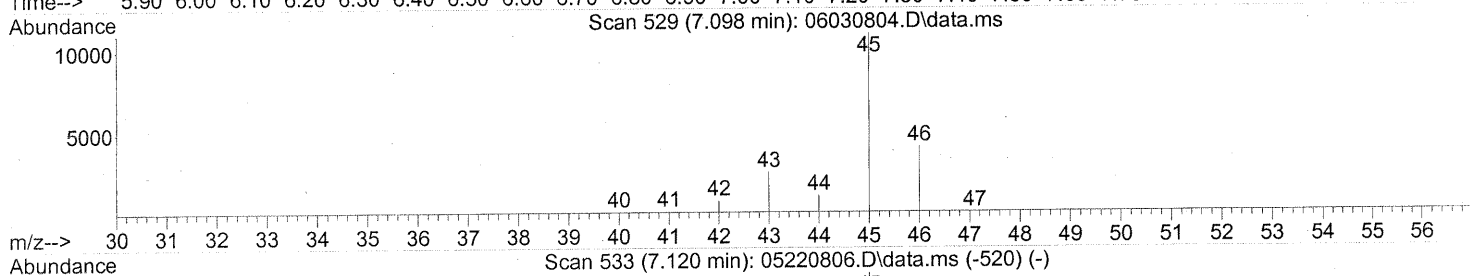
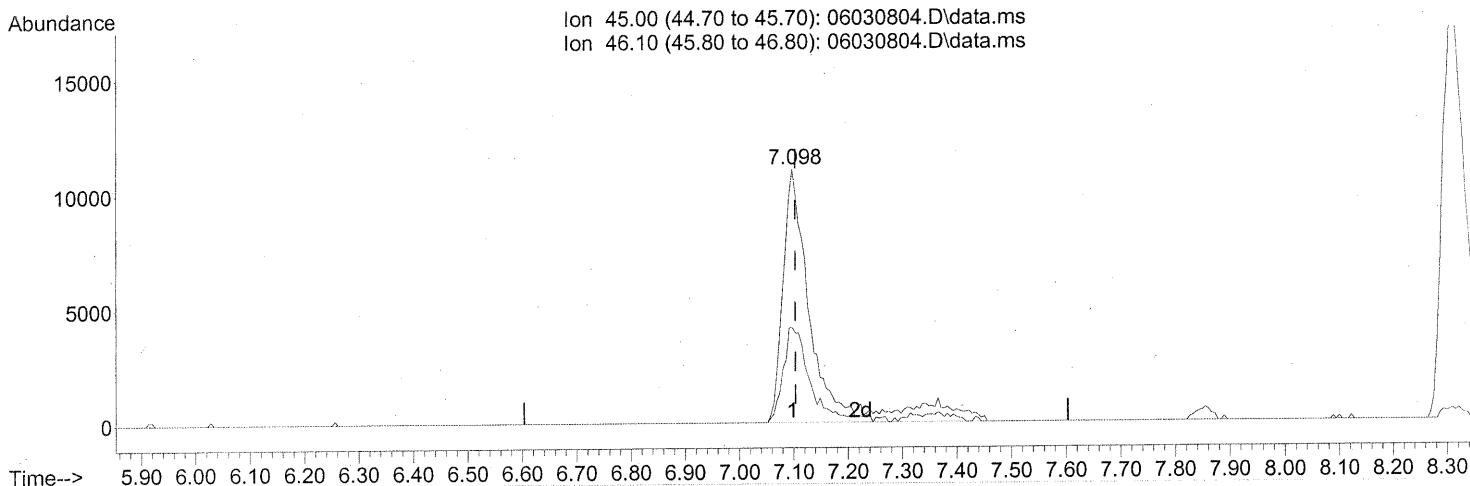
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	38.83
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 12:29:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.098min (-0.006) 2.52ng m  
response 42765

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.13
0.00	0.00	0.00
0.00	0.00	0.00

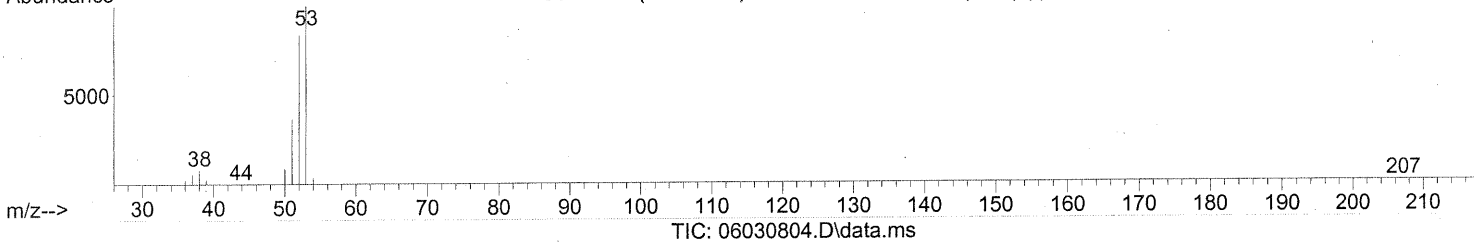
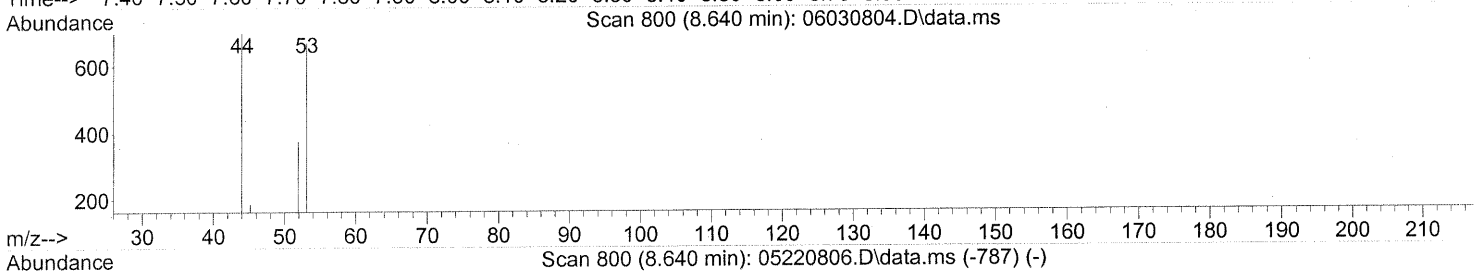
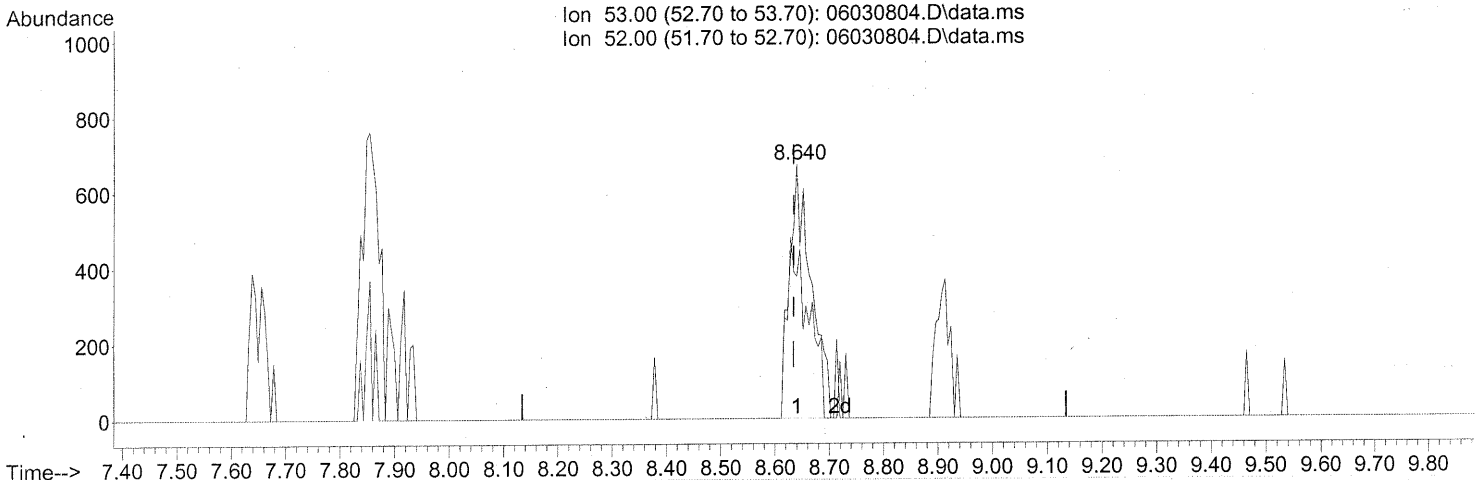
ADDED TAILING  
6/07/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(16) Acrylonitrile (T)

8.640min (+0.006) 0.07ng

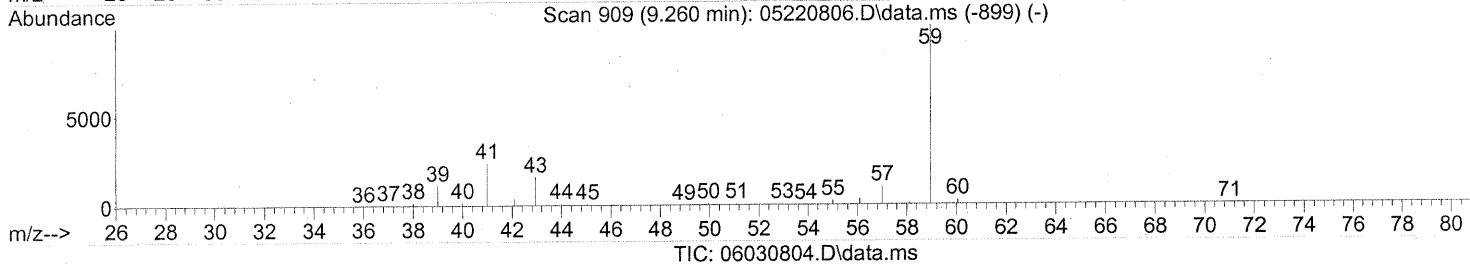
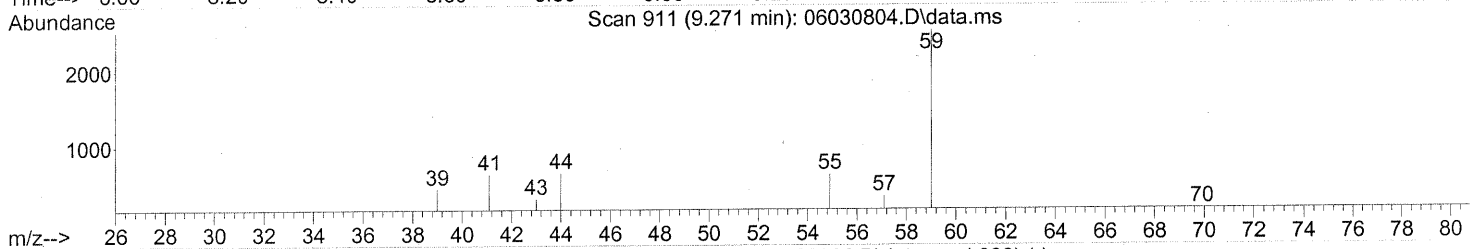
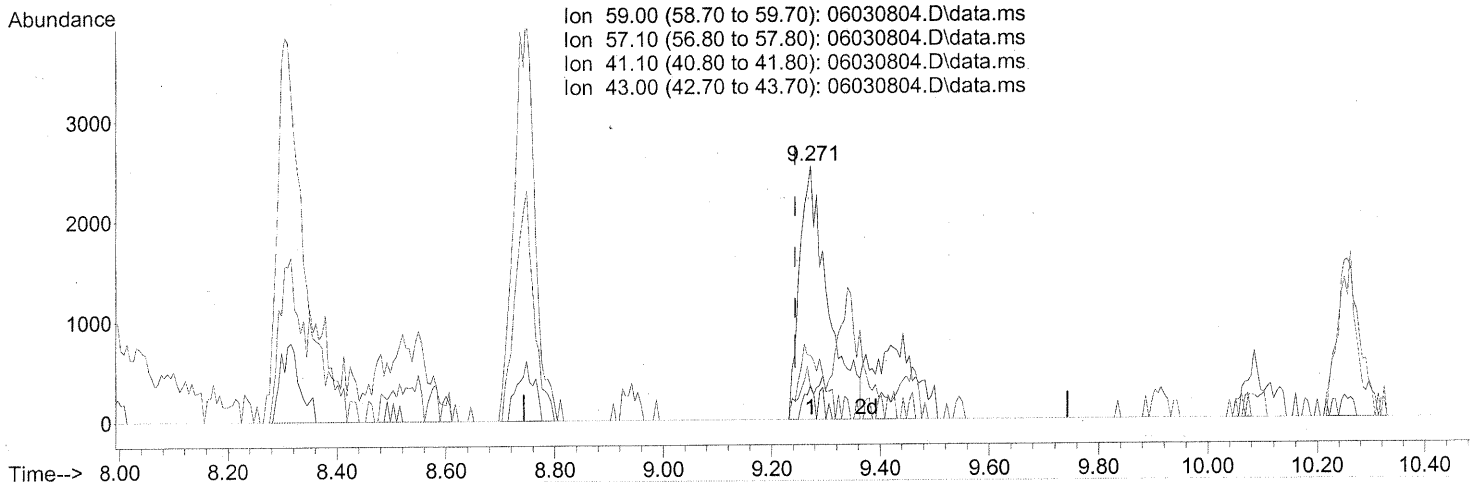
response 1859

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	71.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 12:29:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.029) 0.20ng  
 response 9213

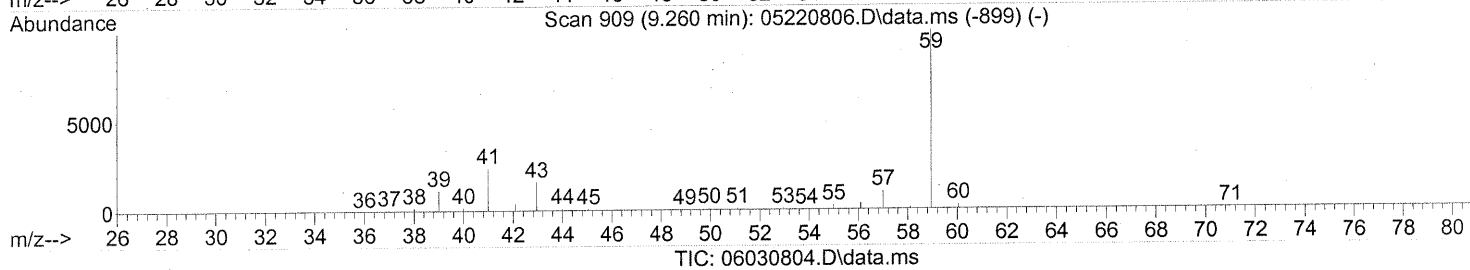
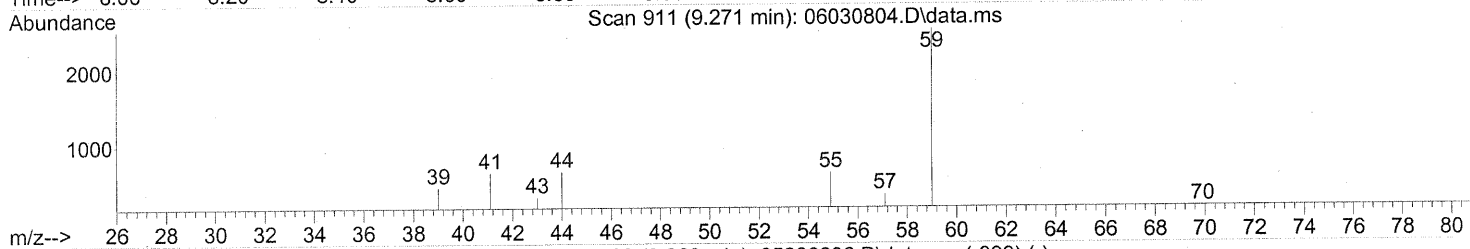
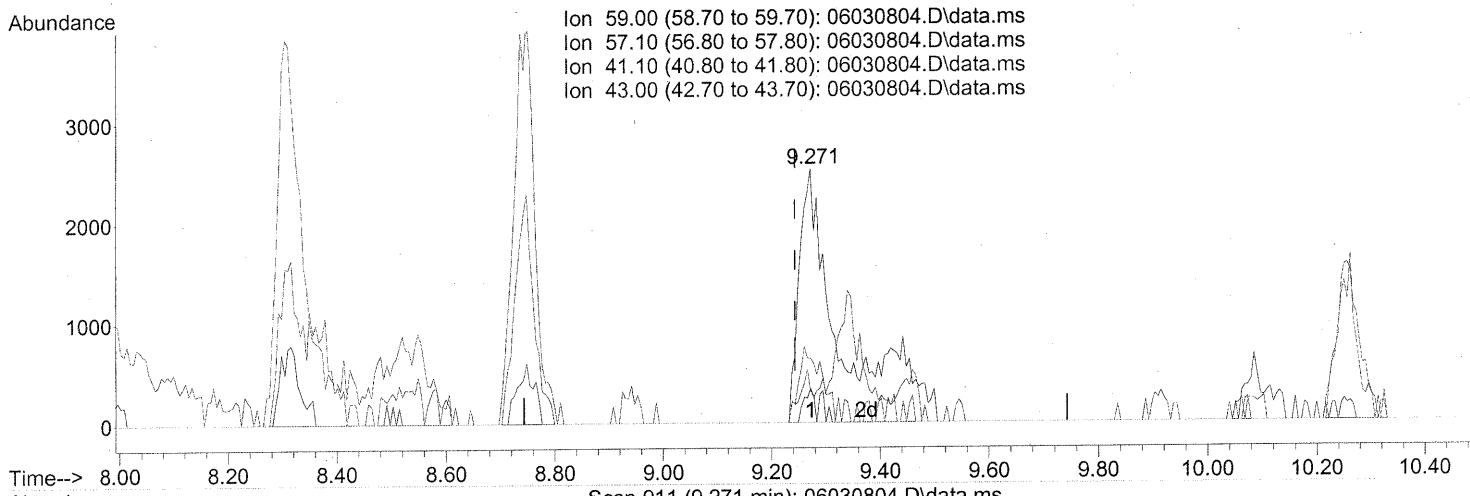
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	4.59
41.10	20.10	23.34
43.00	12.30	8.78

*TAILING/SPLIT PEAK*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 03 12:29:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.029) 0.29ng m  
response 13447

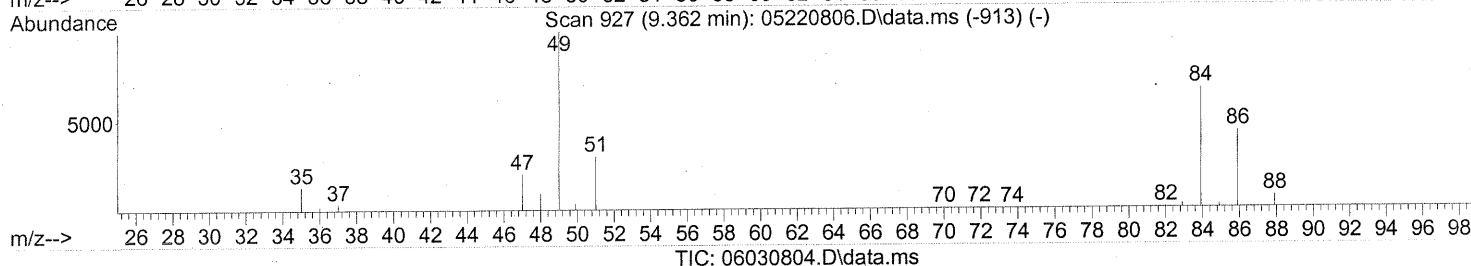
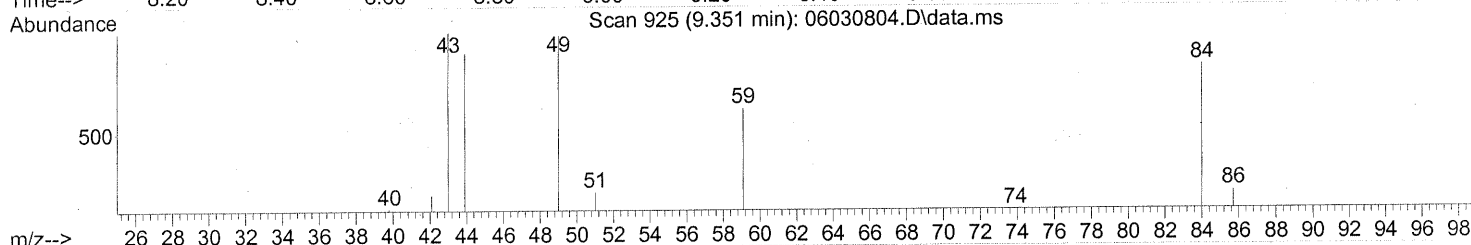
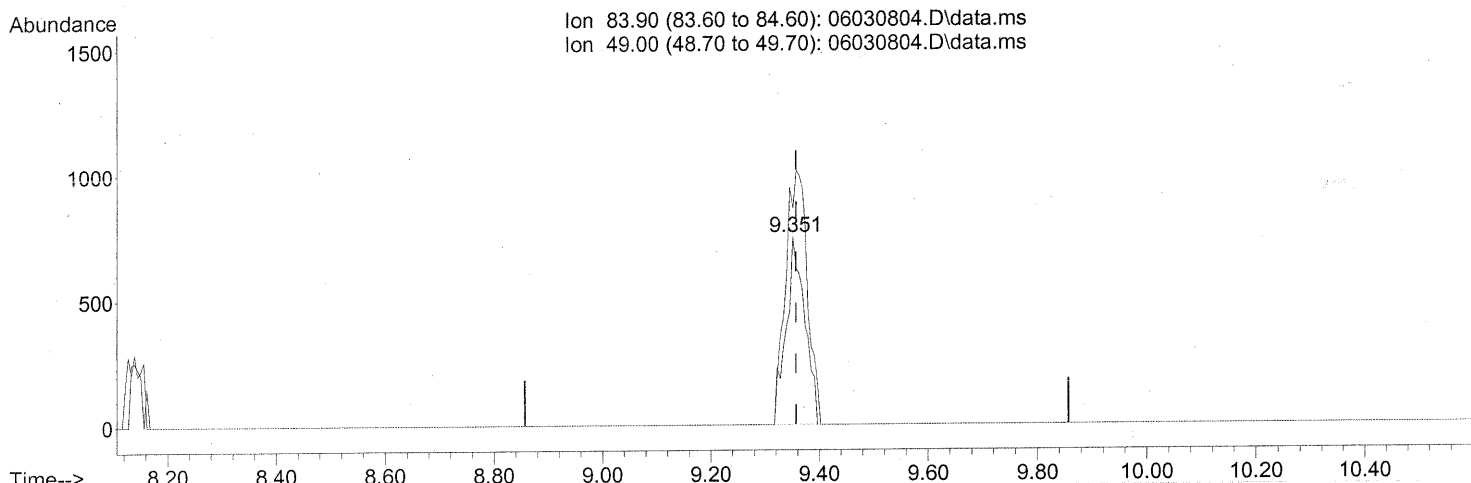
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.15
41.10	20.10	15.99
43.00	12.30	6.02

INT. THE WHOLE PEAK  
P 06/07/08  
6/18/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.351min (-0.006) 0.09ng

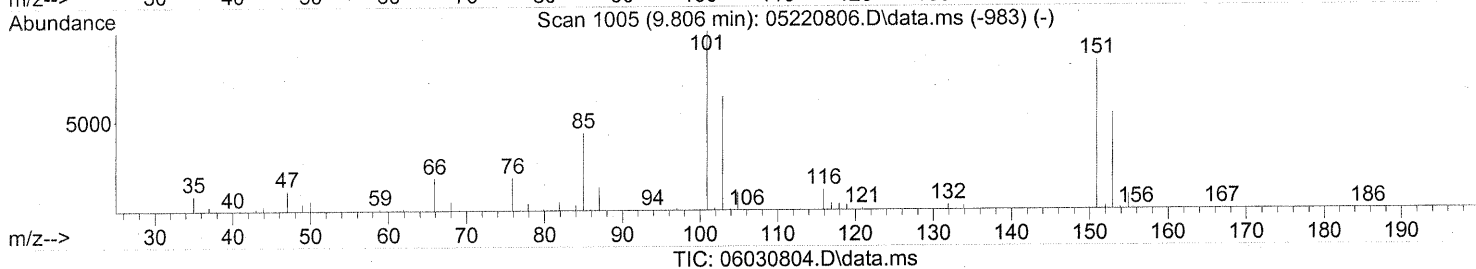
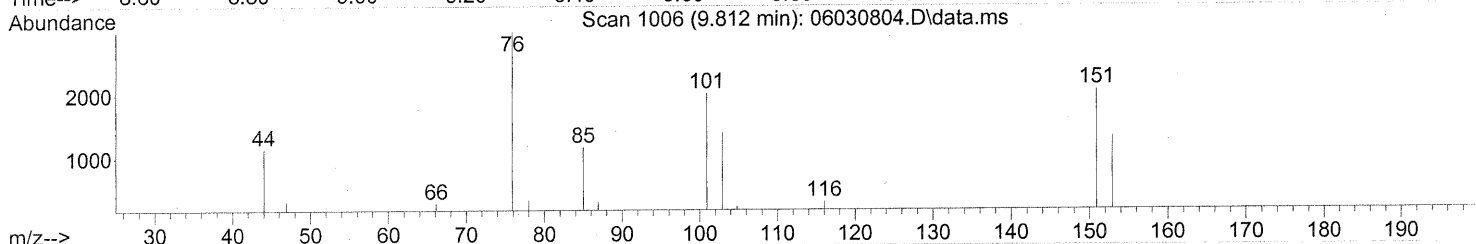
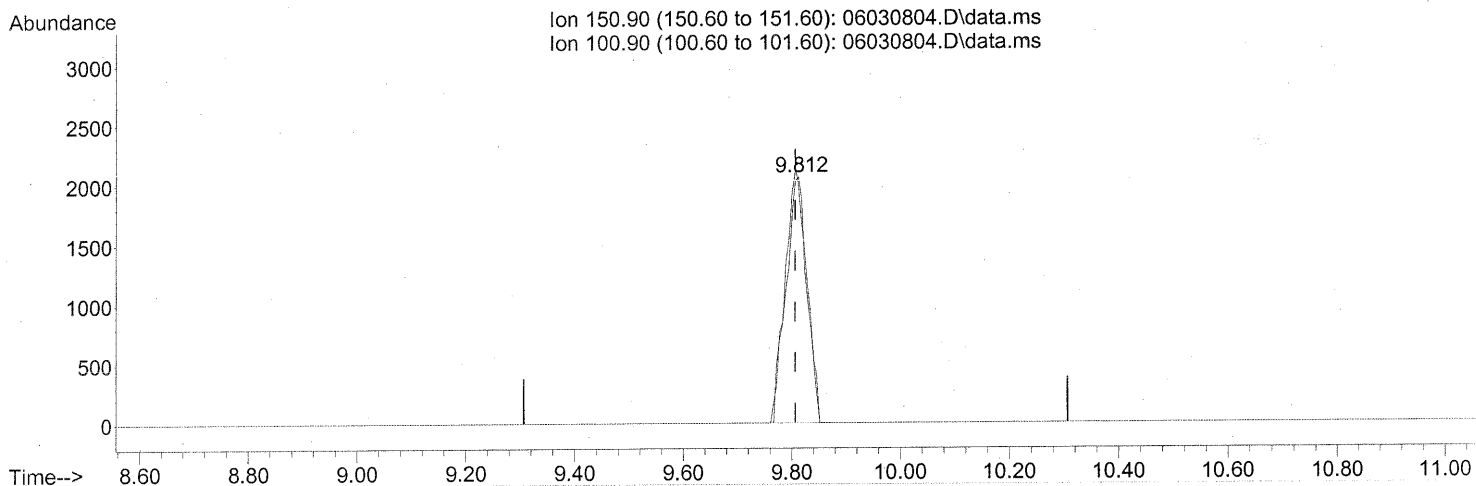
response 1779

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	159.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.30ng

response 5491

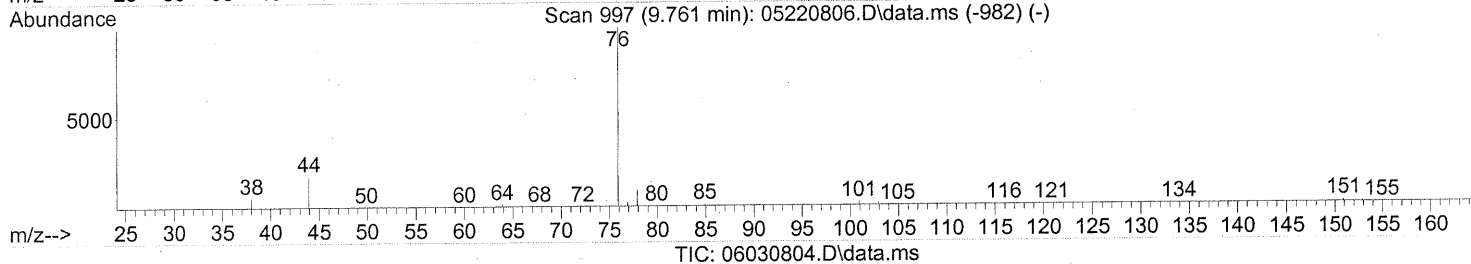
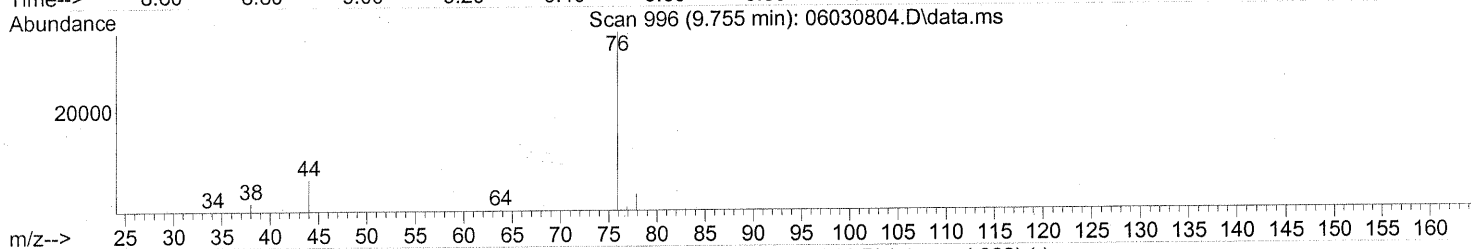
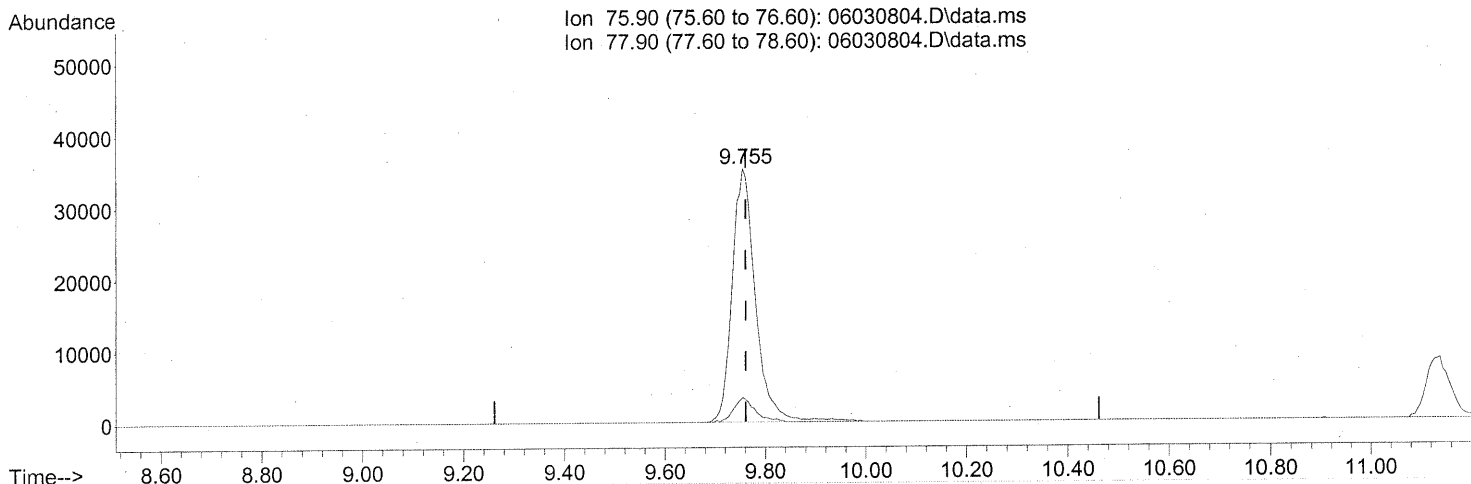
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	106.45#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 1.53ng

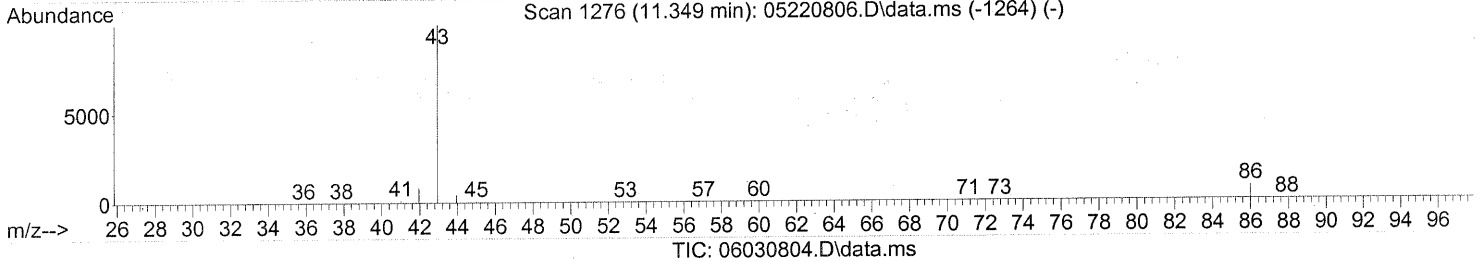
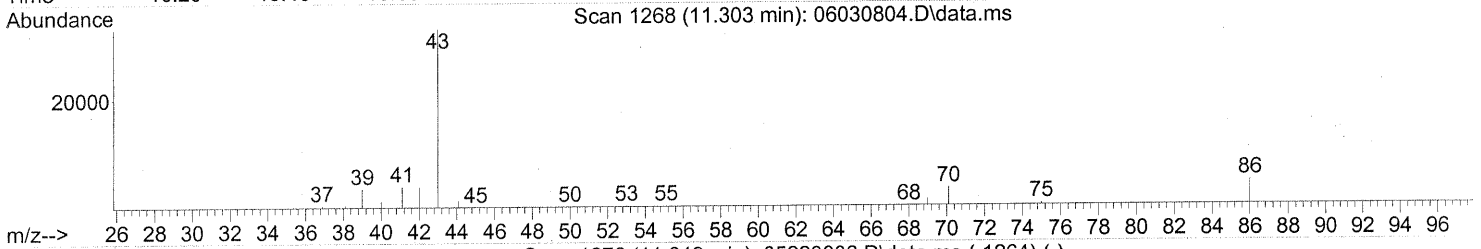
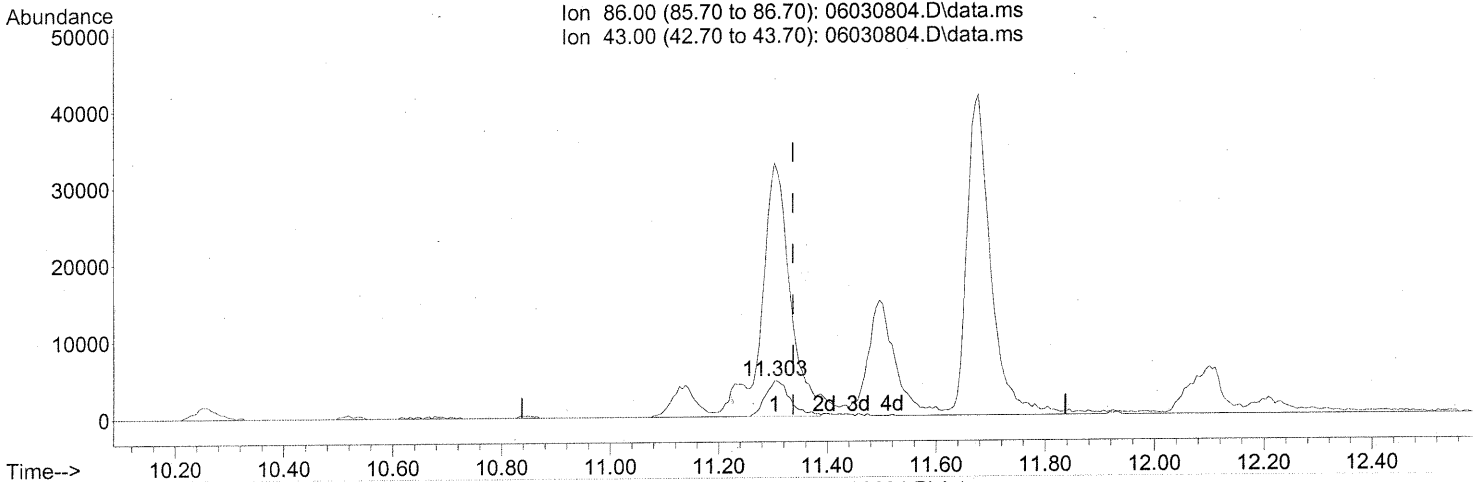
response 112698

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



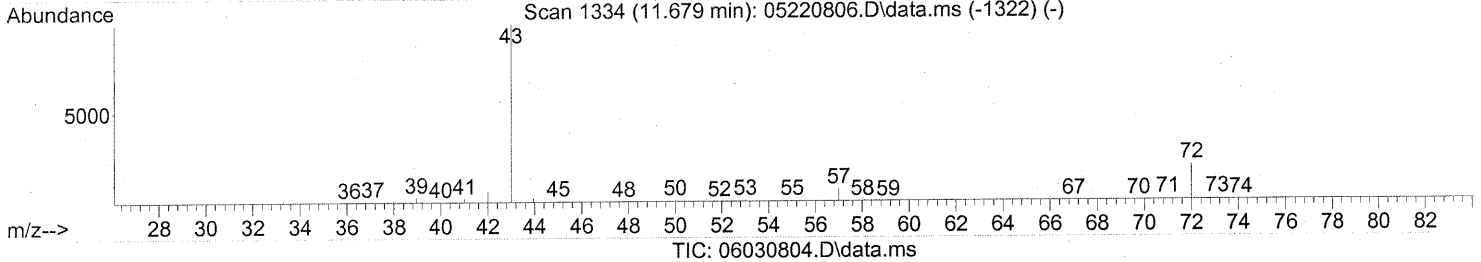
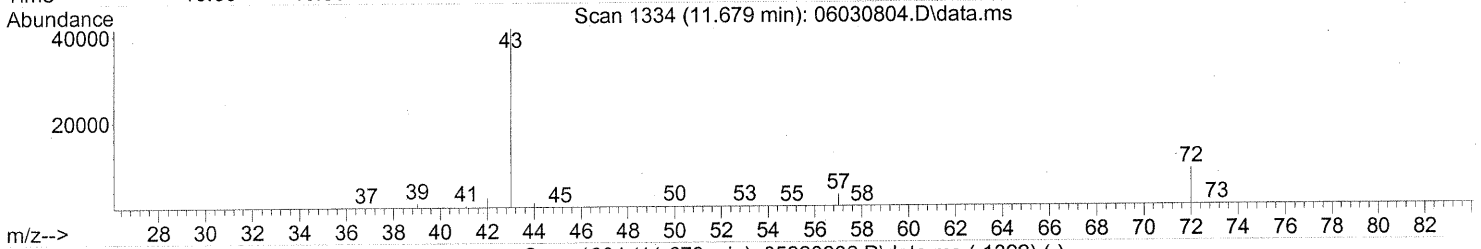
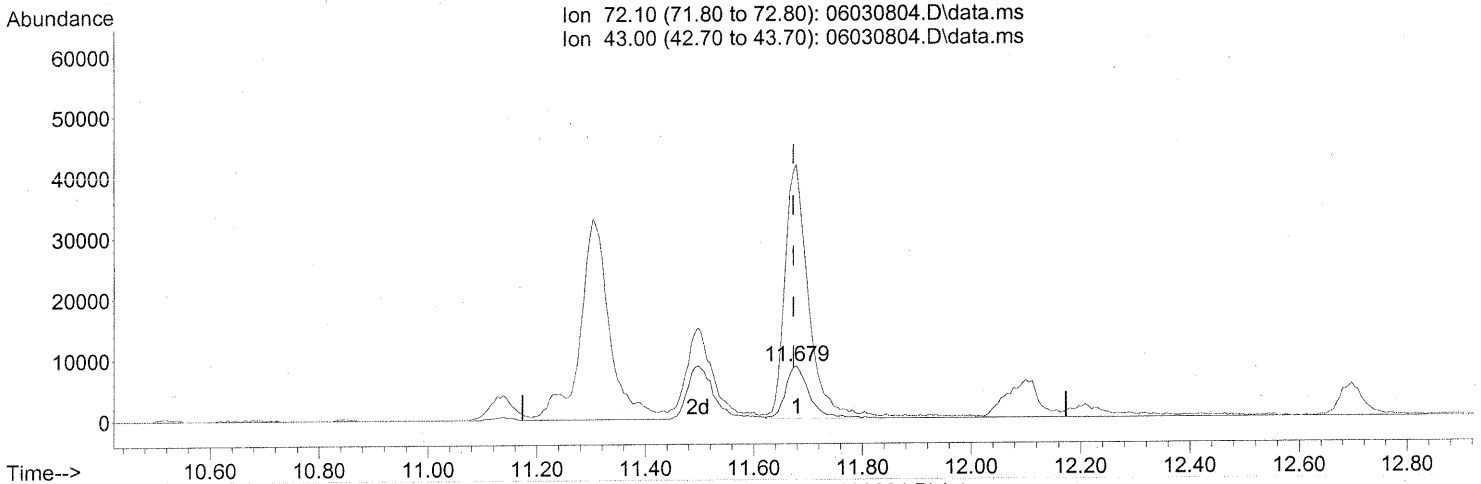
(26) Vinyl Acetate (T)  
 11.303min (-0.034) 4.52ng  
 response 14507

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	772.54#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration

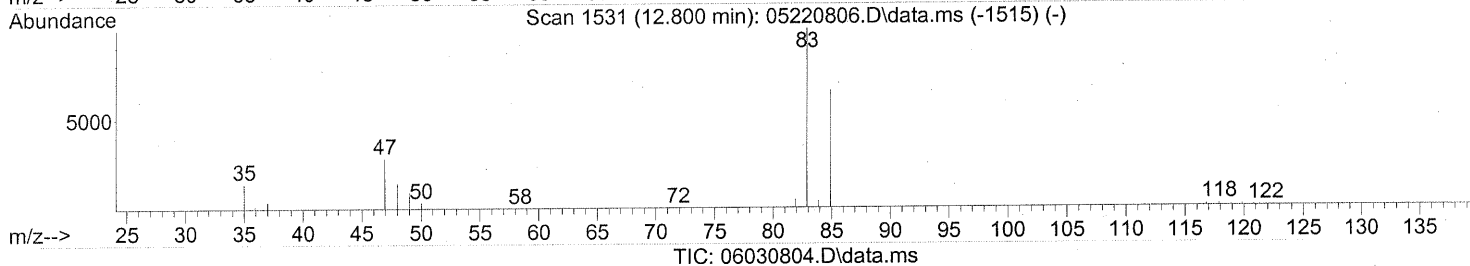
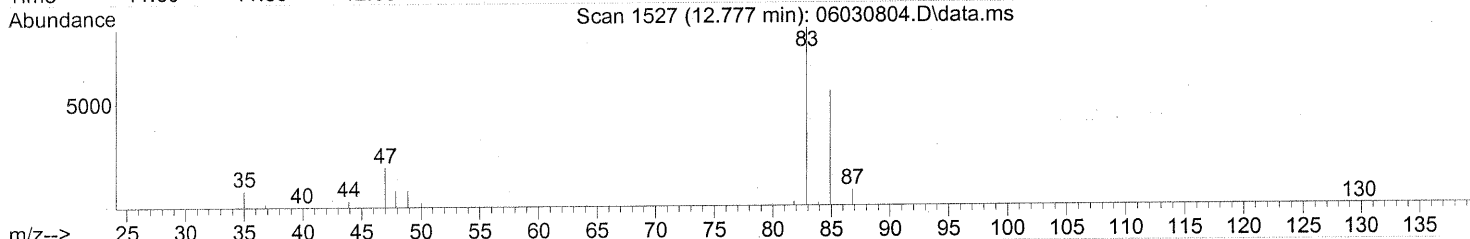
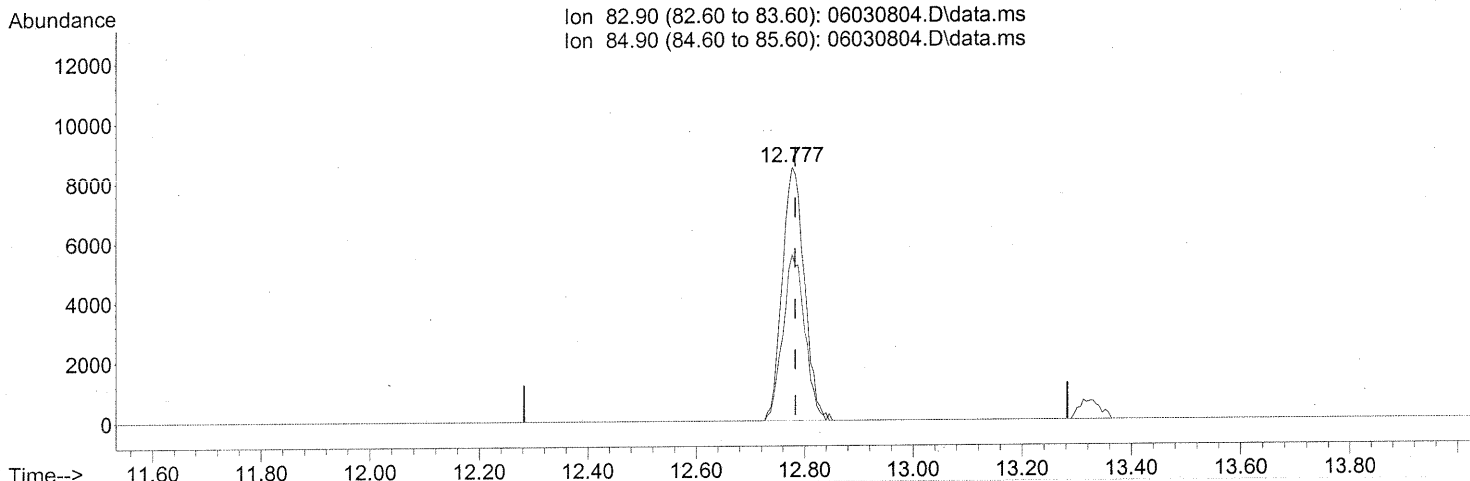


(27) 2-Butanone (T)  
11.679min (+0.006) 2.03ng  
response 25708  
Ion Exp% Act%  
72.10 100 100  
43.00 506.80 472.23#  
0.00 0.00 0.00  
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 0.81ng

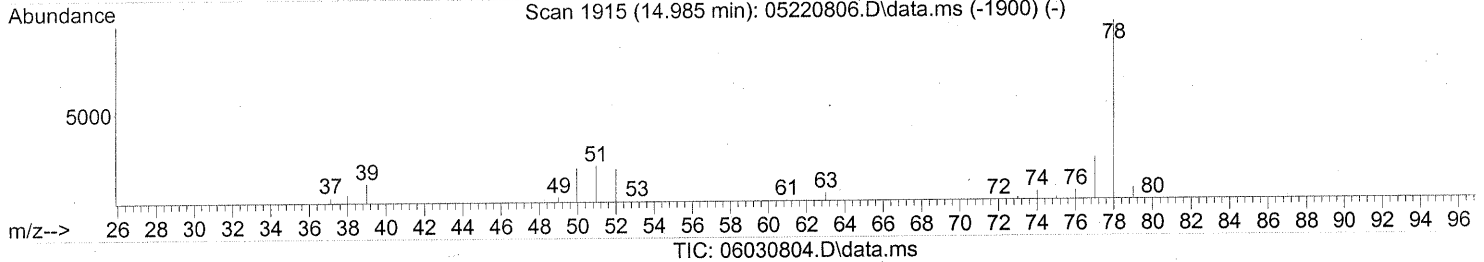
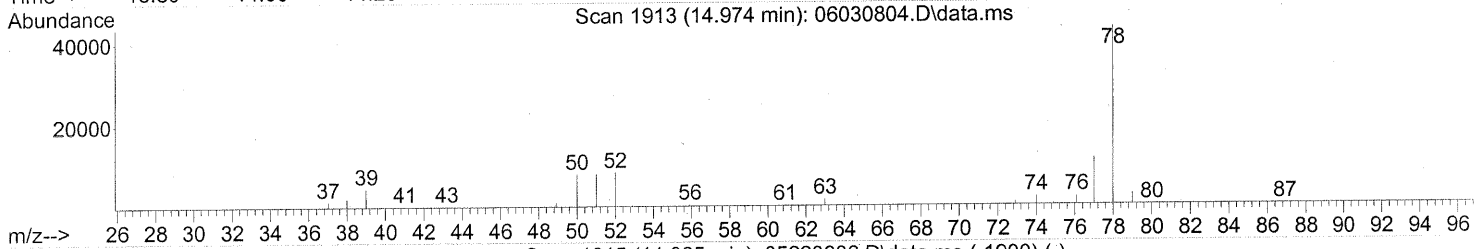
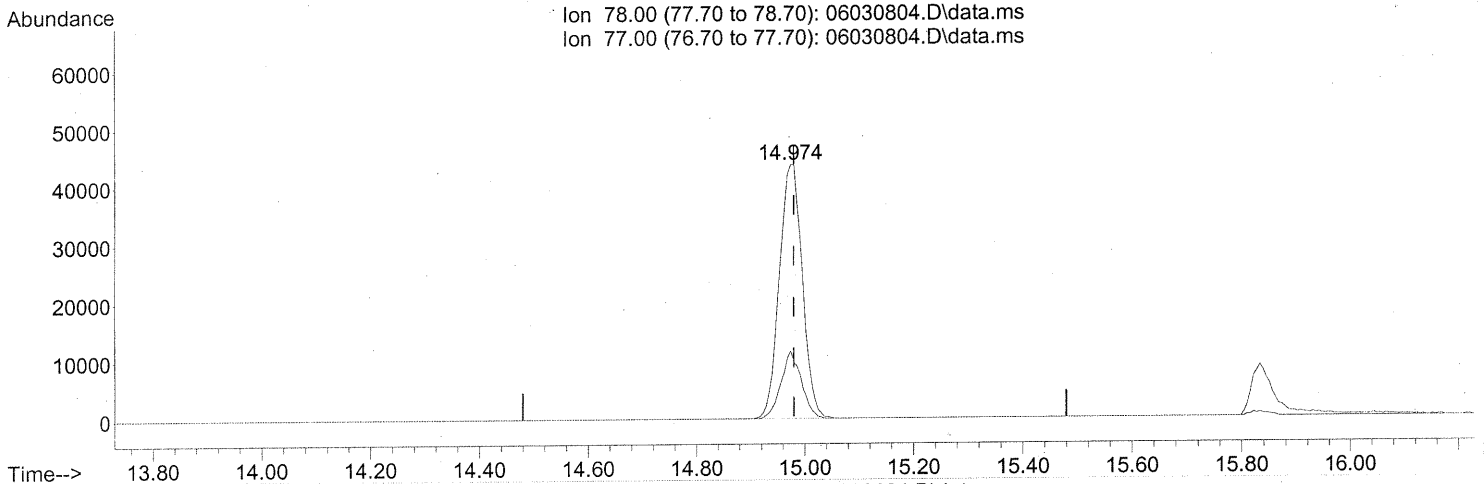
response 23907

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	65.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.974min (-0.006) 1.77ng

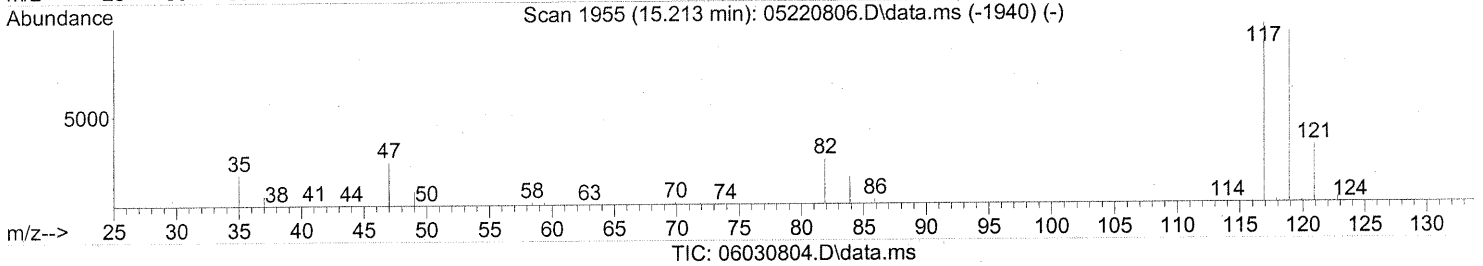
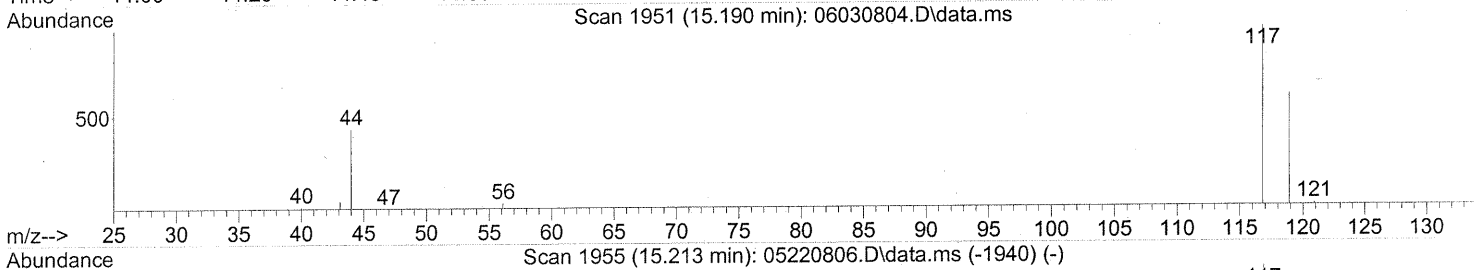
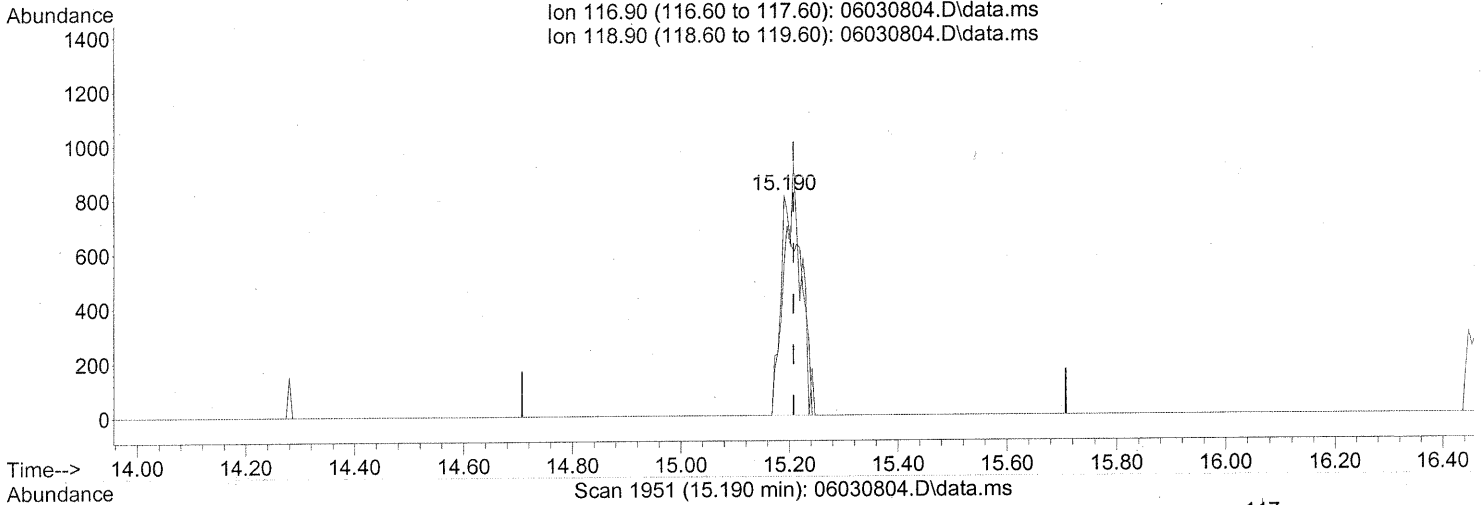
response 127037

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.190min (-0.017) 0.07ng

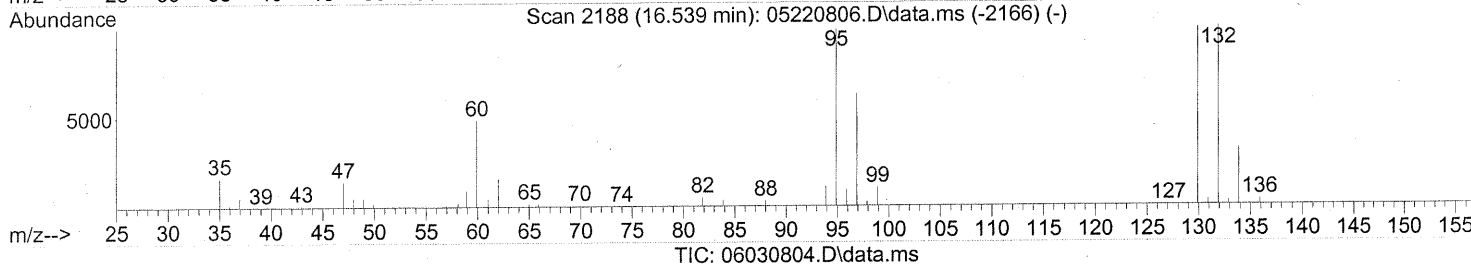
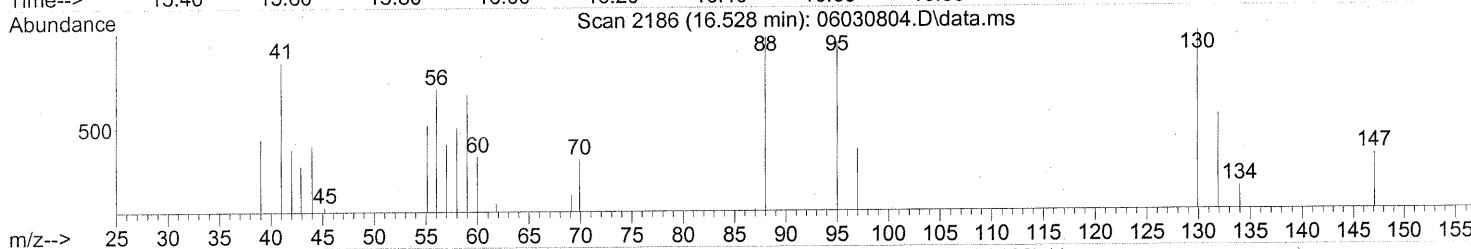
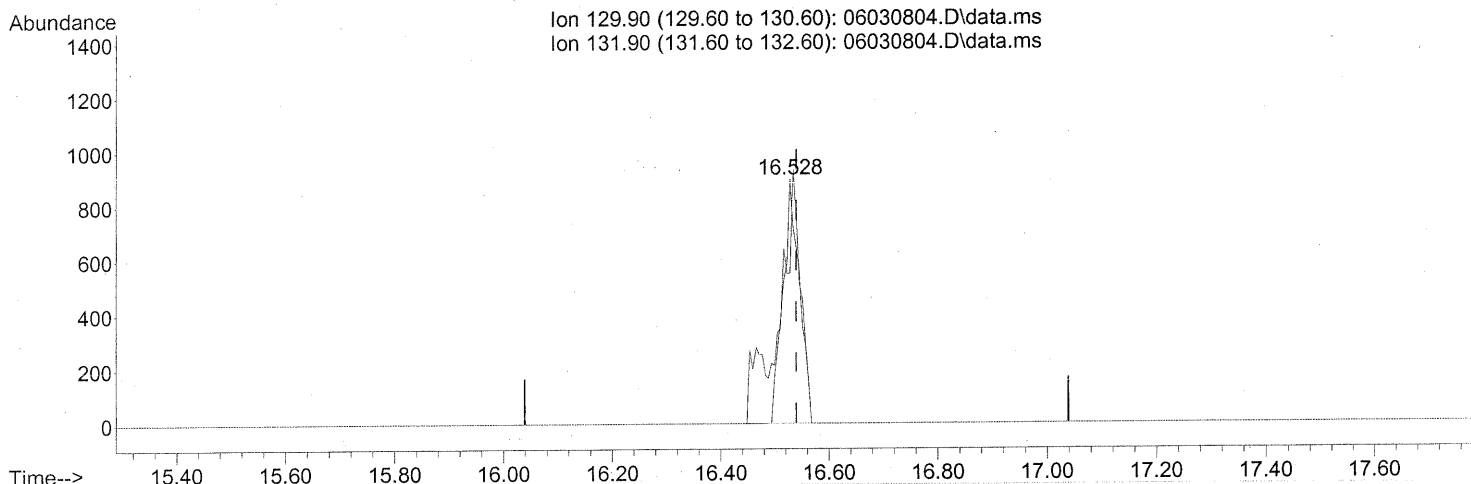
response 2053

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	99.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.528min (-0.011) 0.09ng

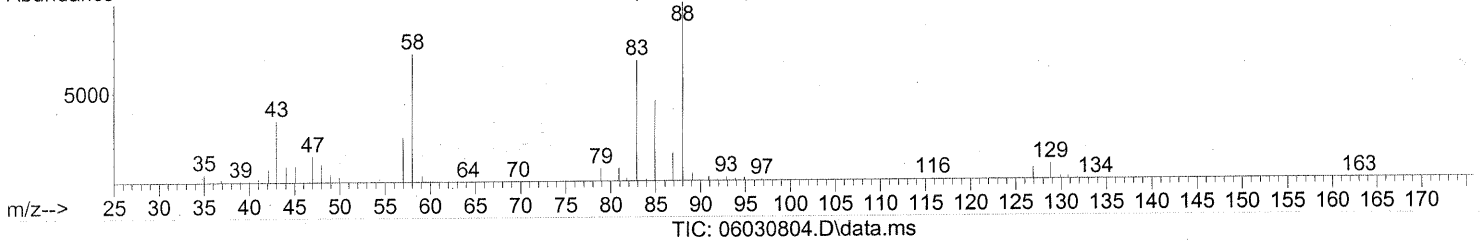
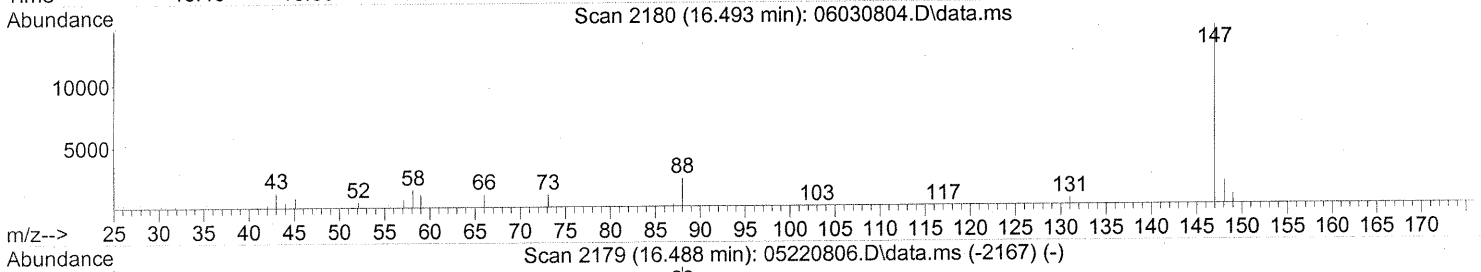
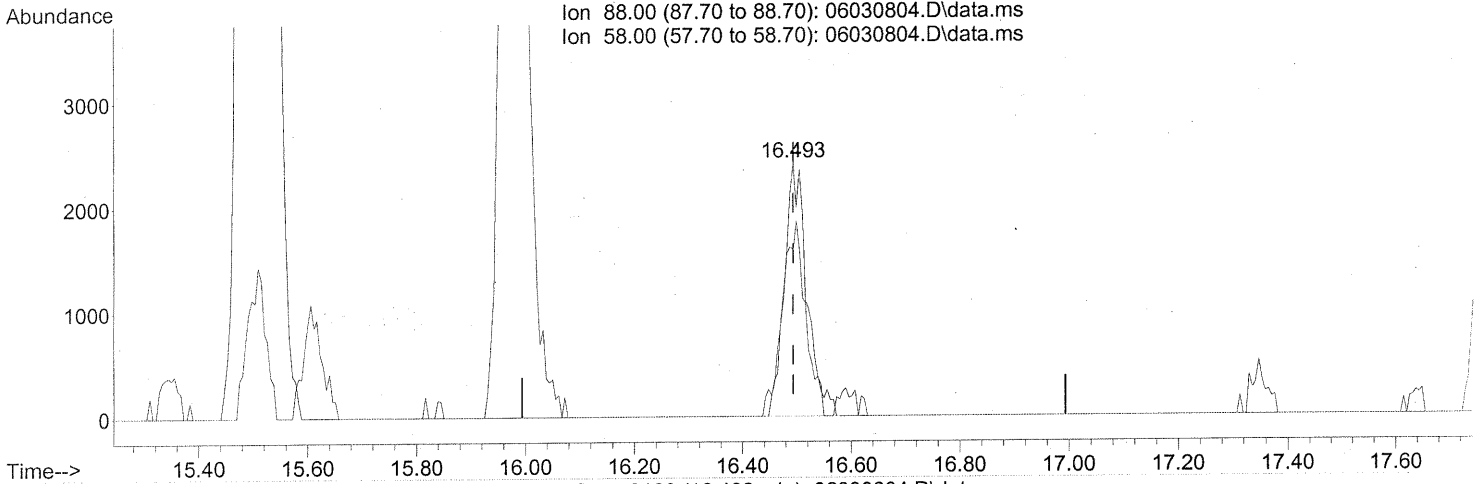
response 1897

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	107.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.493min (+0.000) 0.51ng  
 response 6933

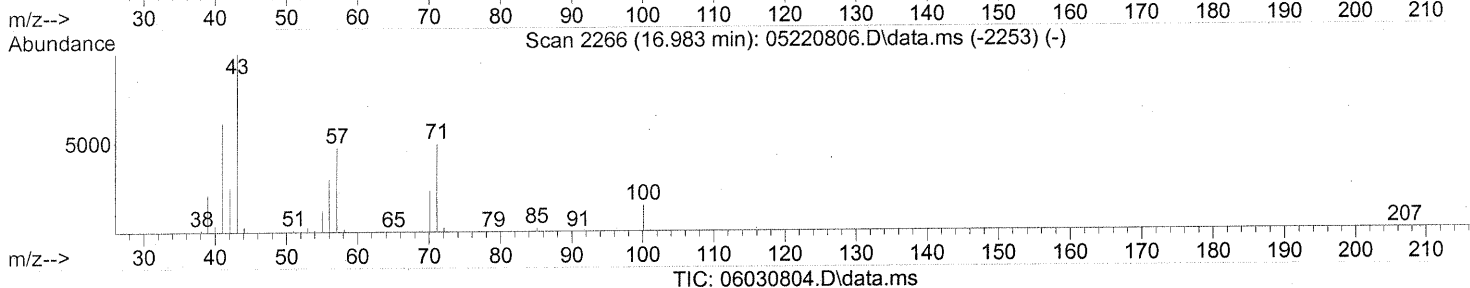
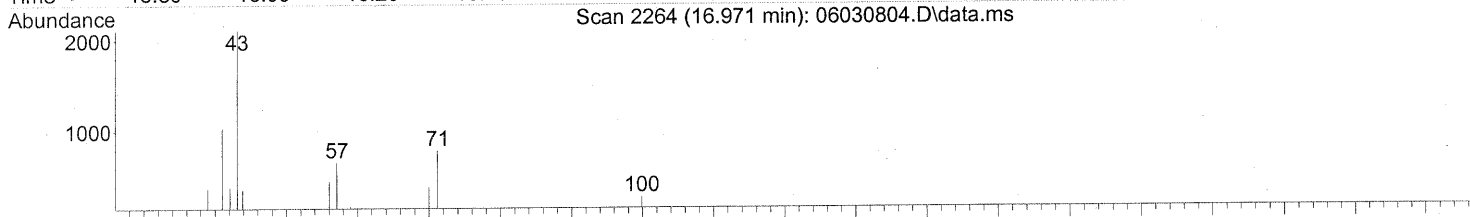
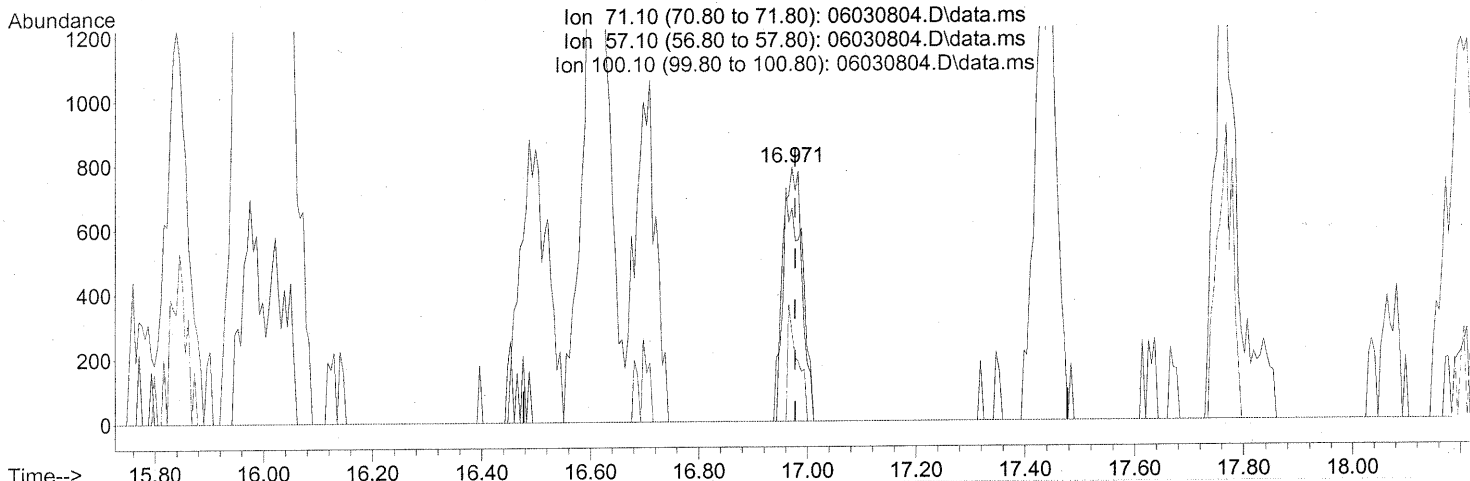
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	79.27
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(51) n-Heptane (T)

16.971min (-0.006) 0.10ng

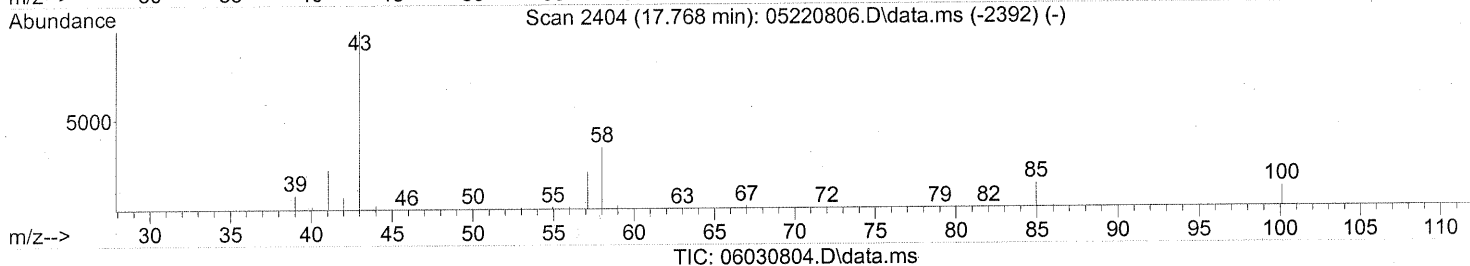
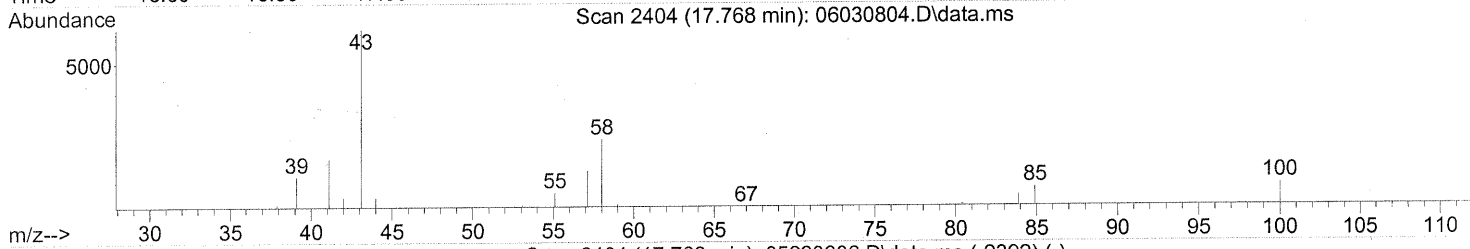
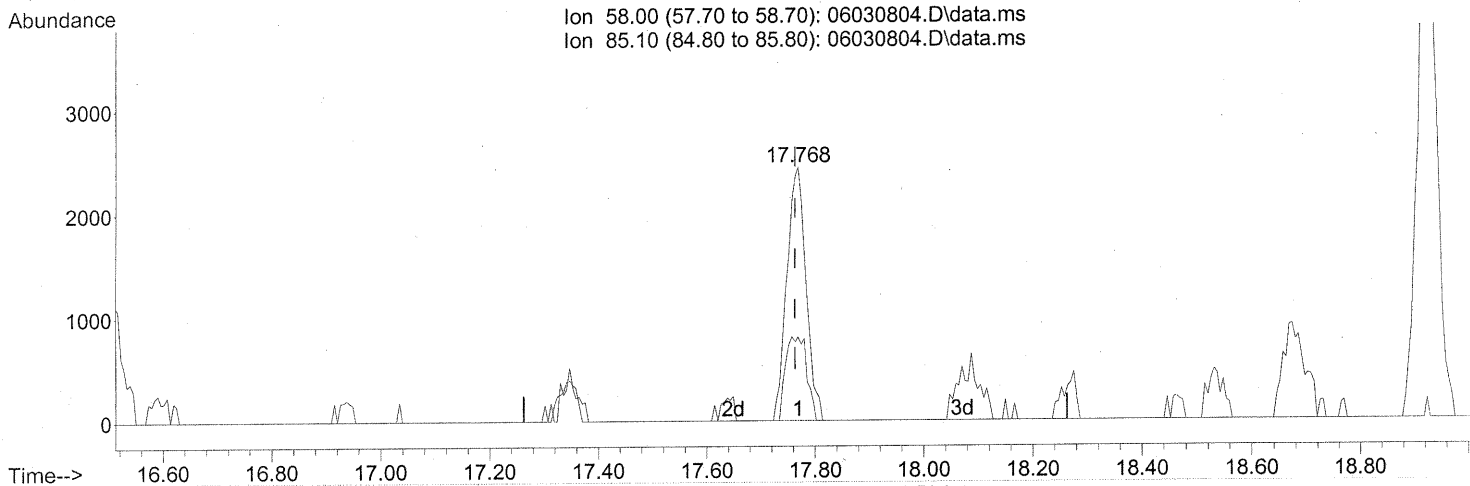
response 1910

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	94.82#
100.10	30.10	23.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.768min (+0.006) 0.31ng

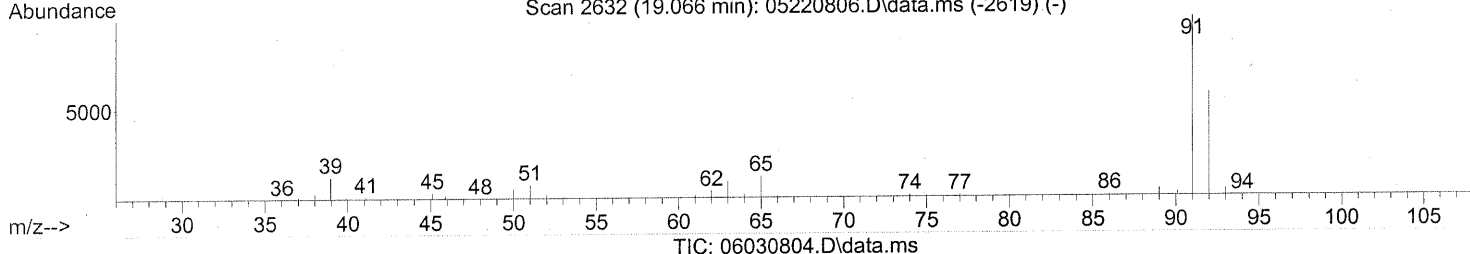
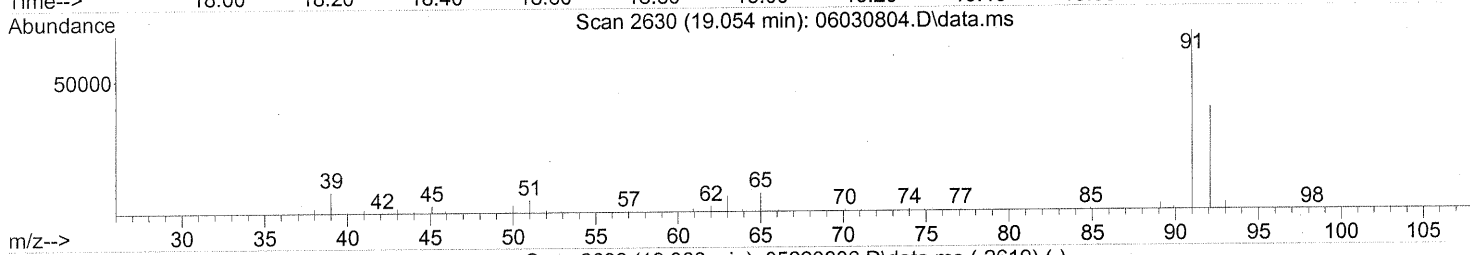
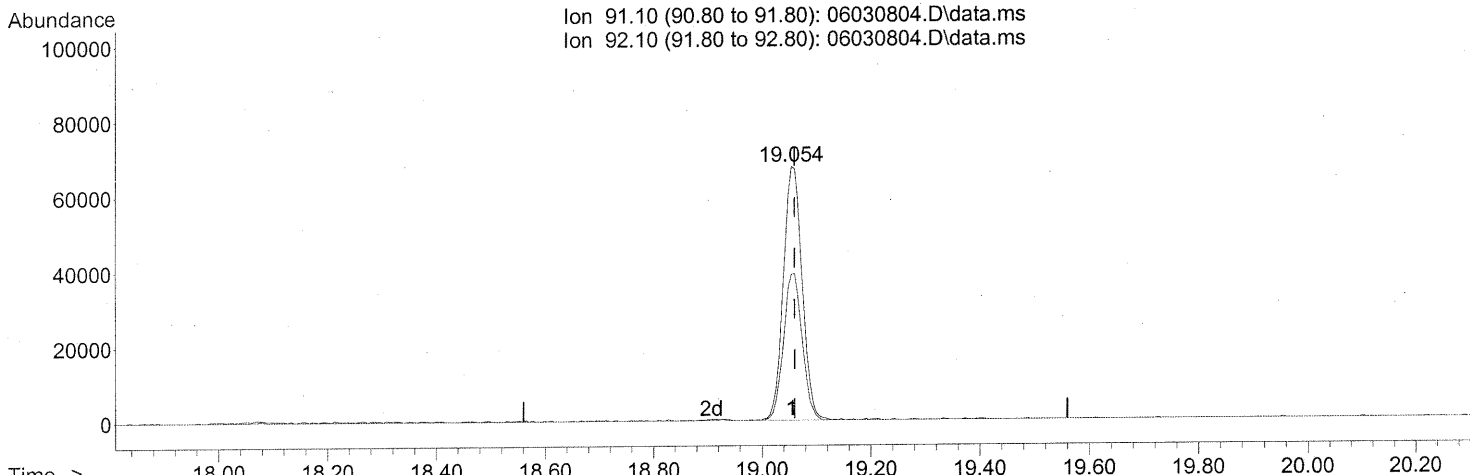
response 6006

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	36.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.054min (-0.006) 1.97ng

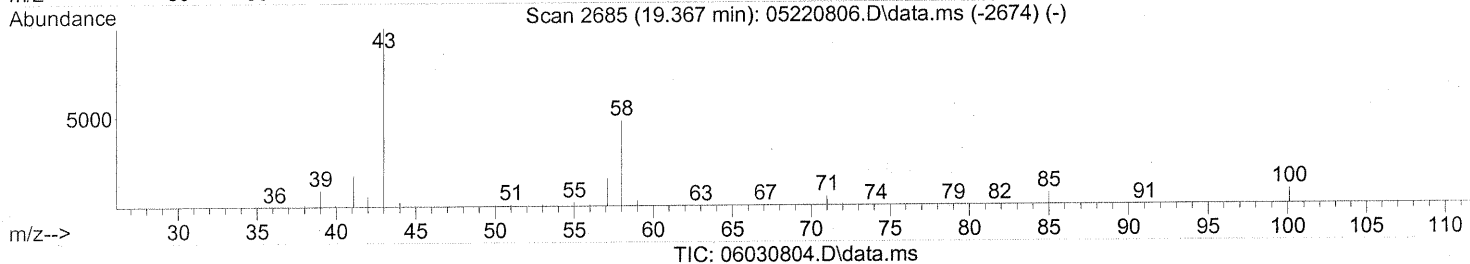
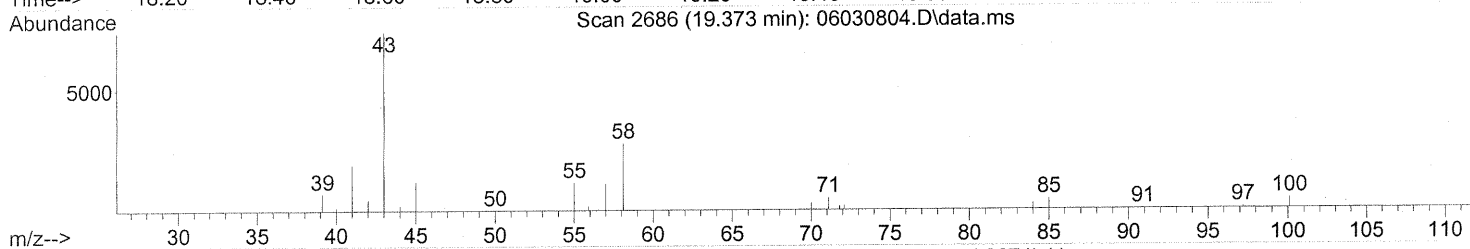
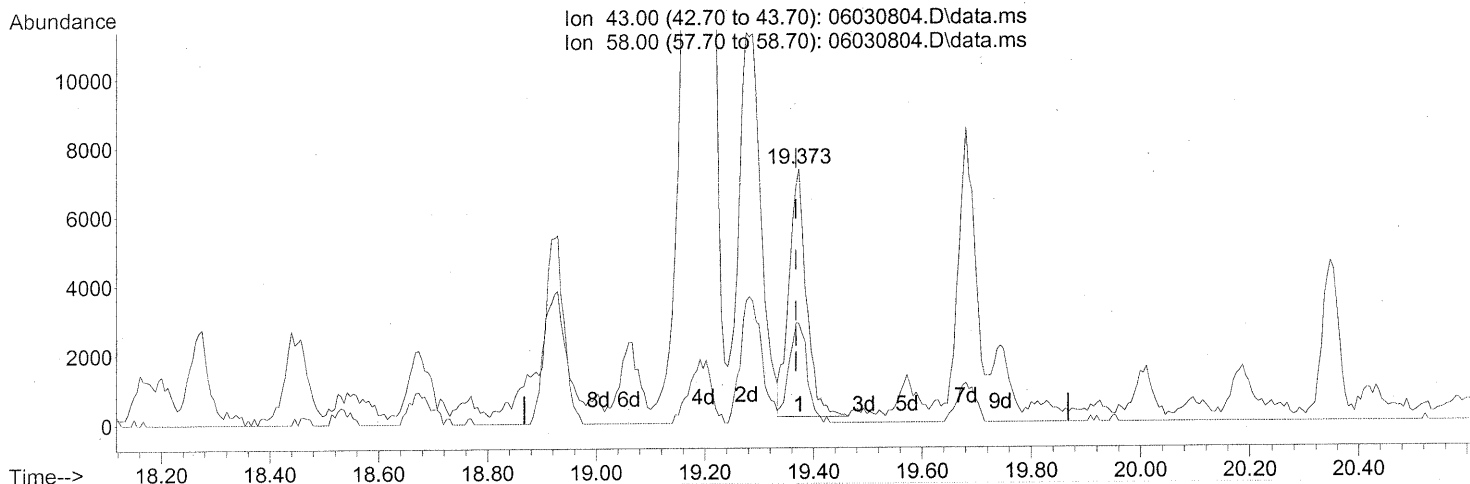
response 161289

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)

19.373min (+0.006) 0.29ng

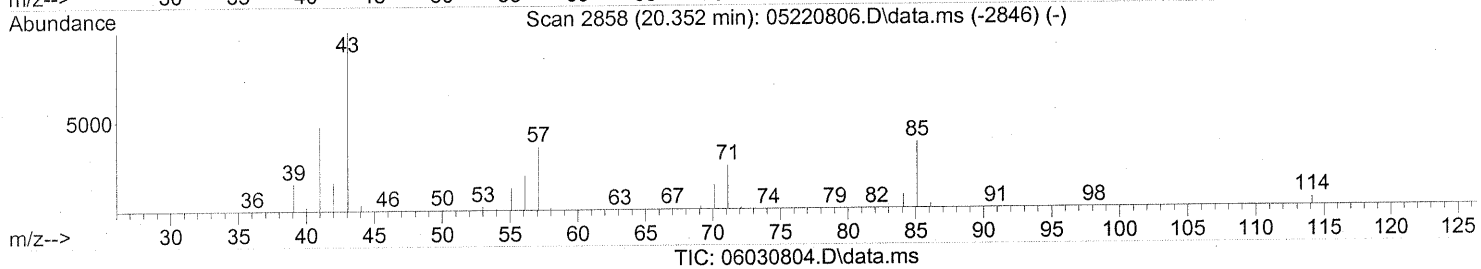
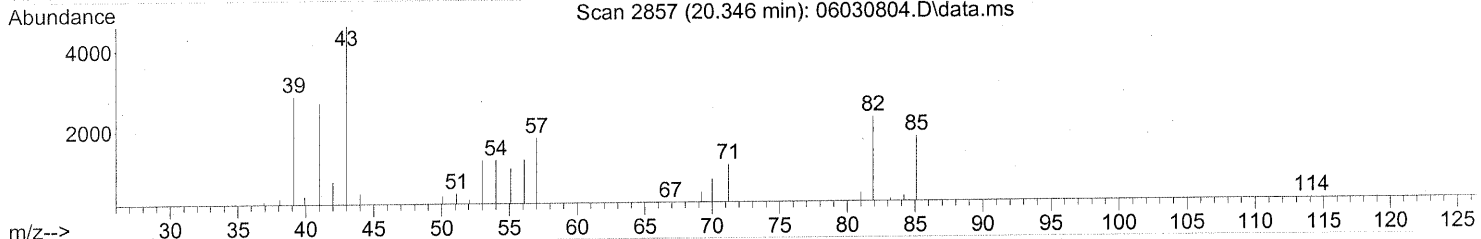
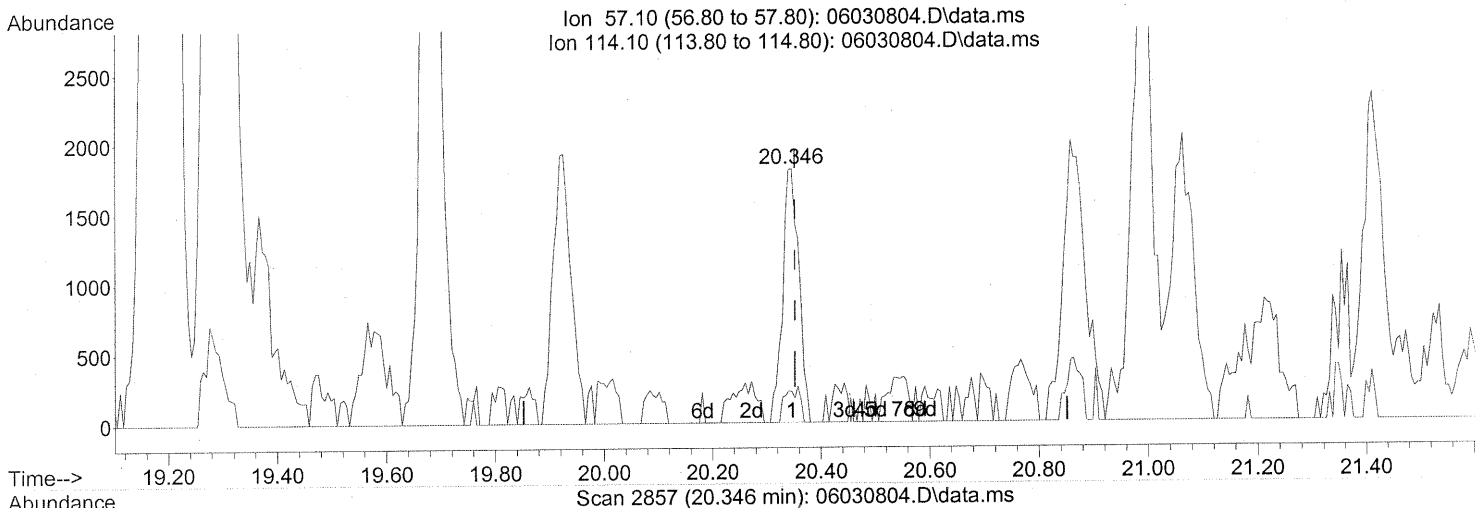
response 16185

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	41.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



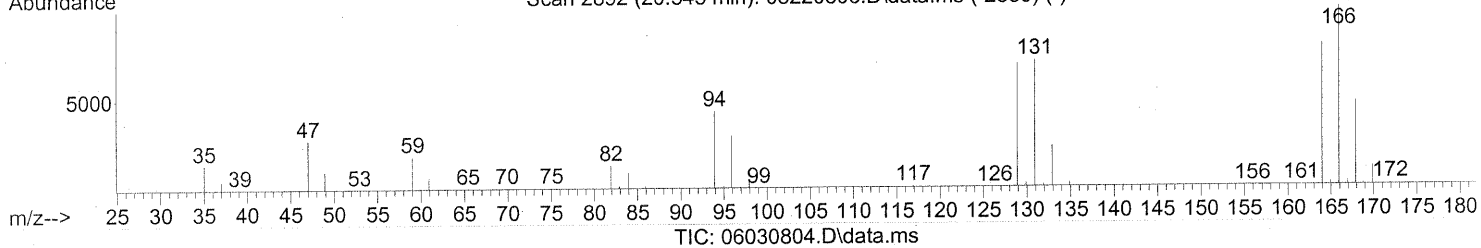
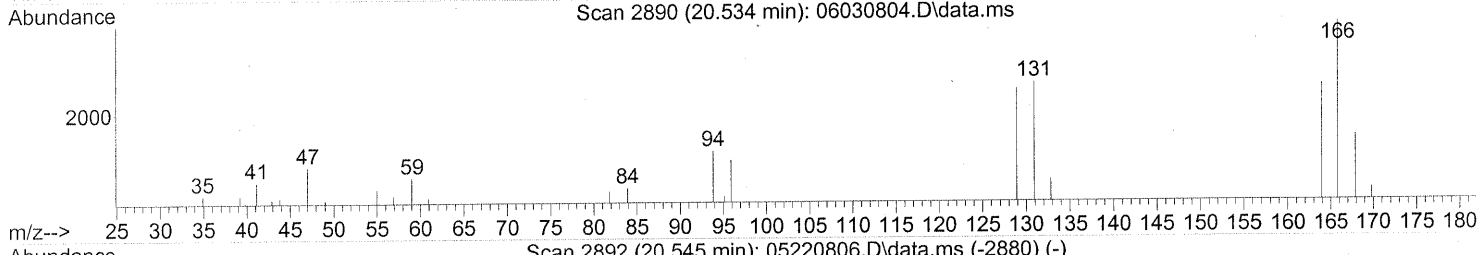
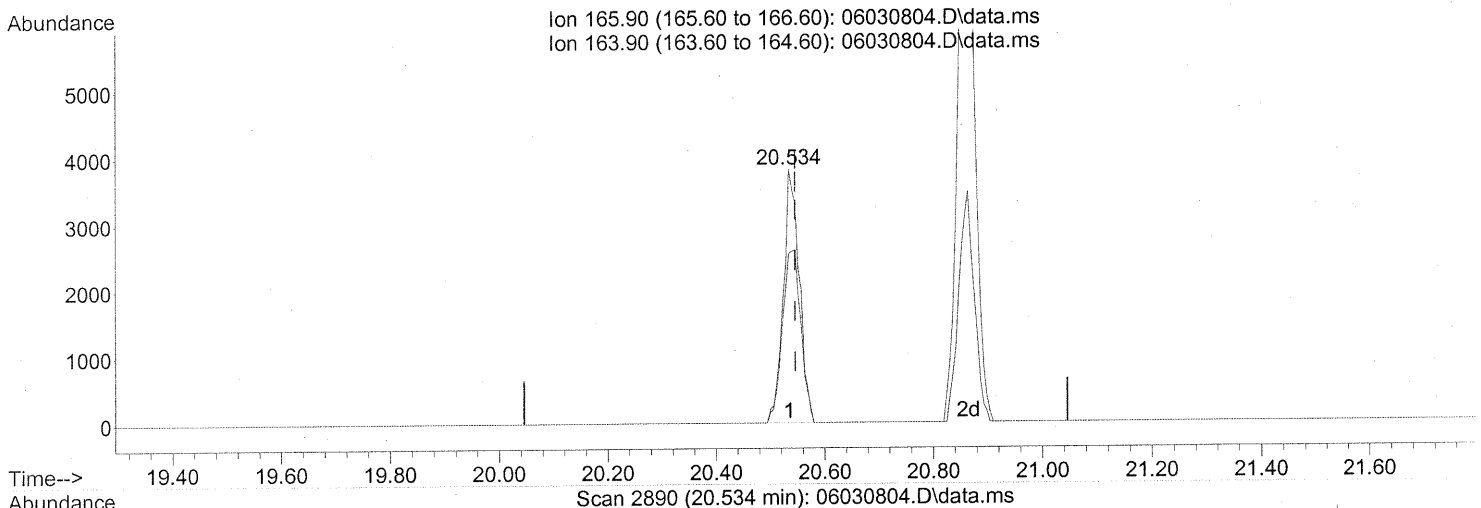
(63) n-Octane (T)  
 20.346min (-0.006) 0.21ng  
 response 3773

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	12.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.534min (-0.011) 0.32ng

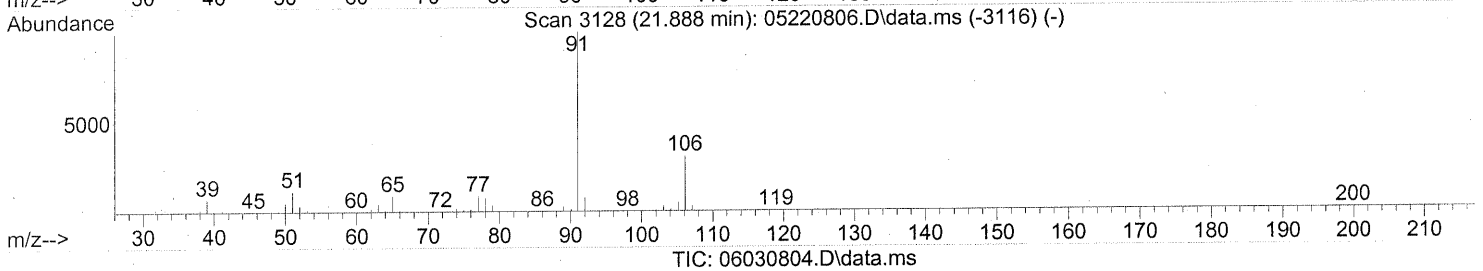
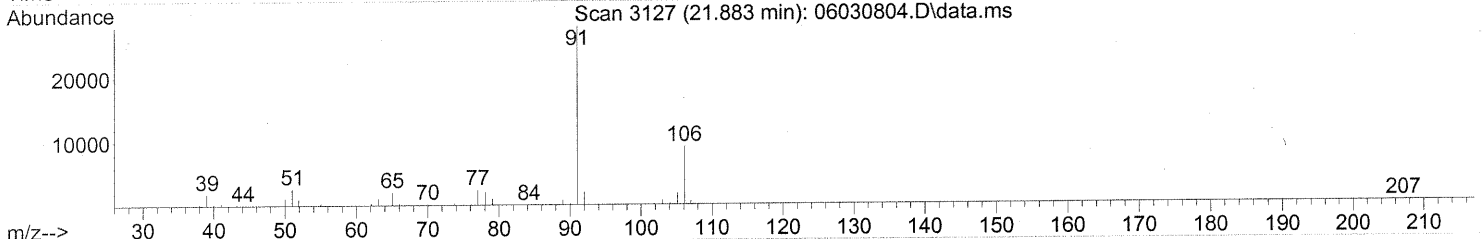
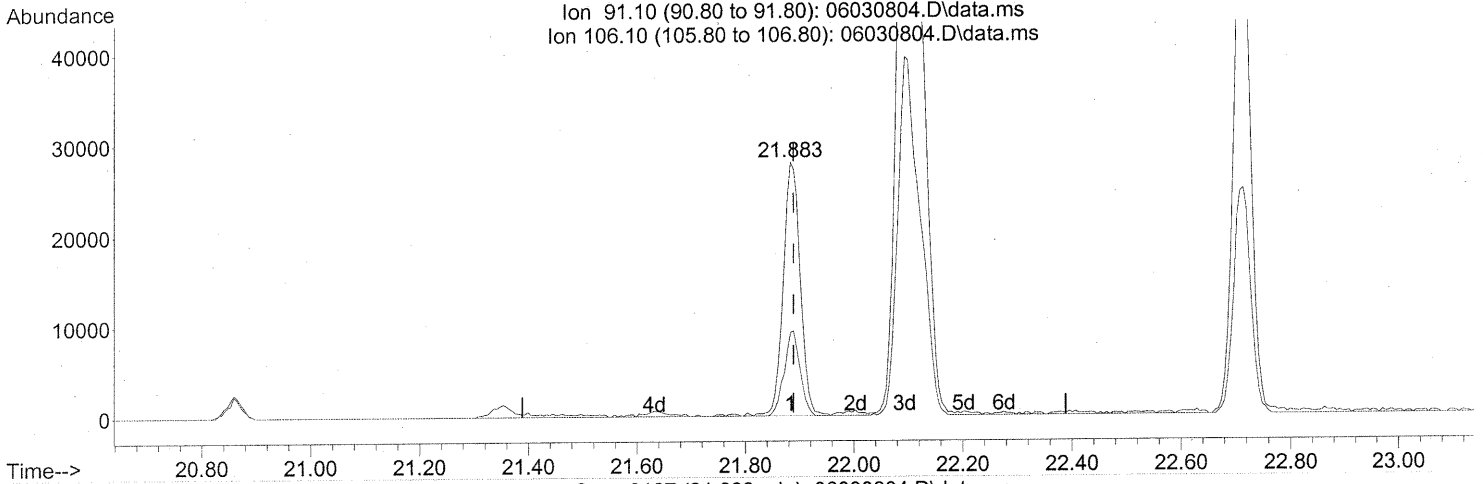
response 7697

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.883min (-0.006) 0.65ng

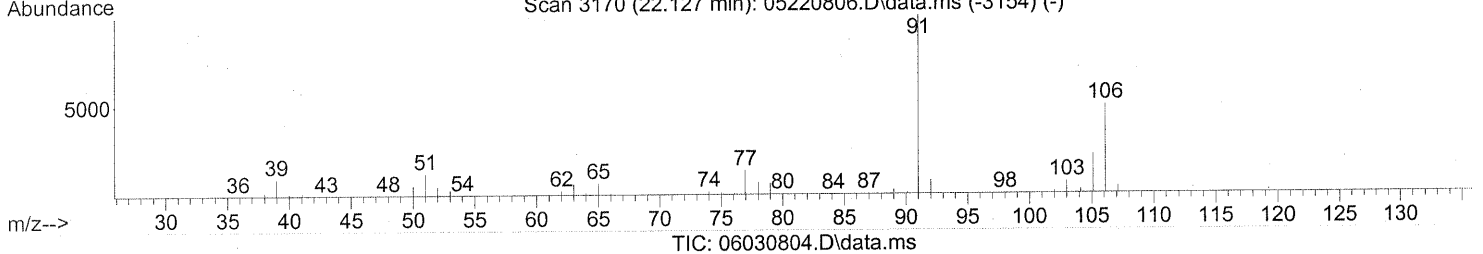
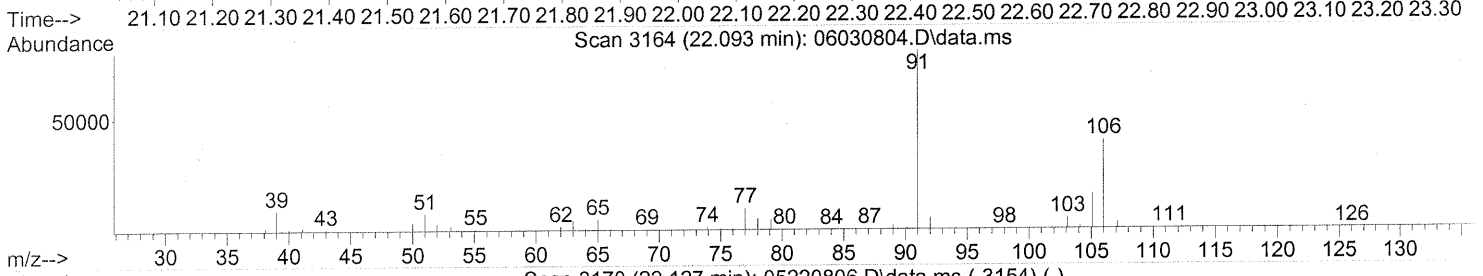
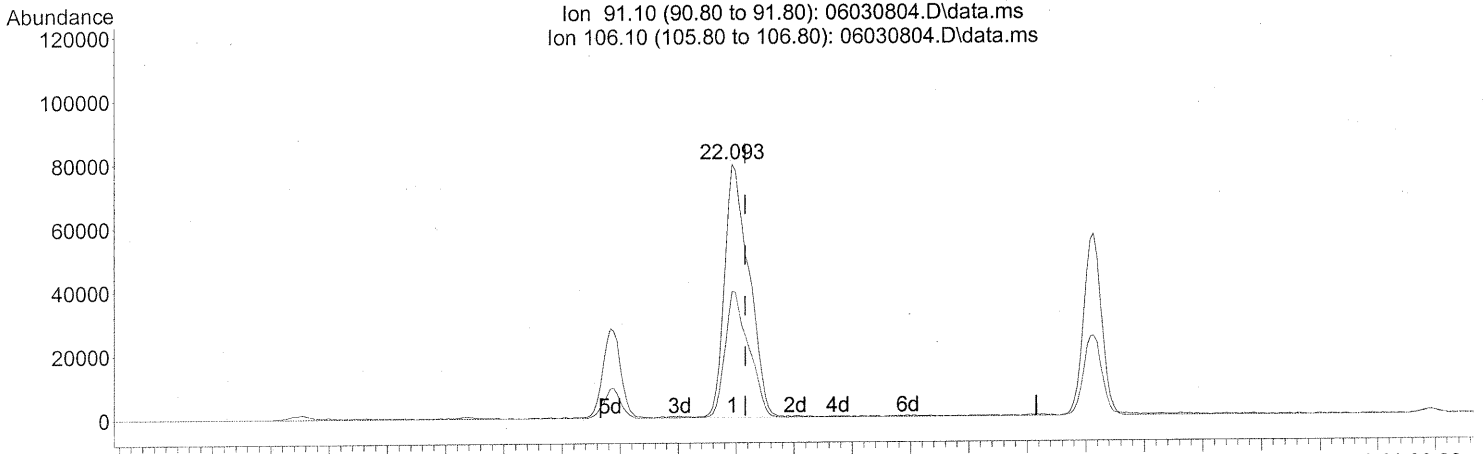
response 60952

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.093min (-0.023) 3.72ng

response 234090

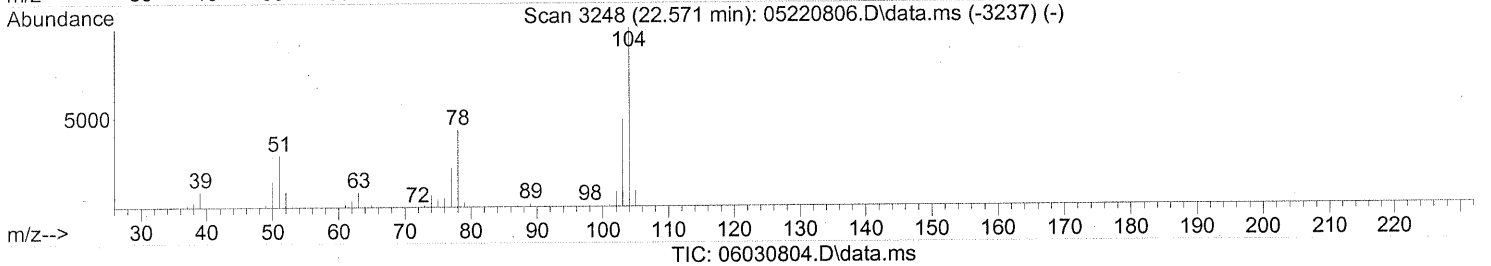
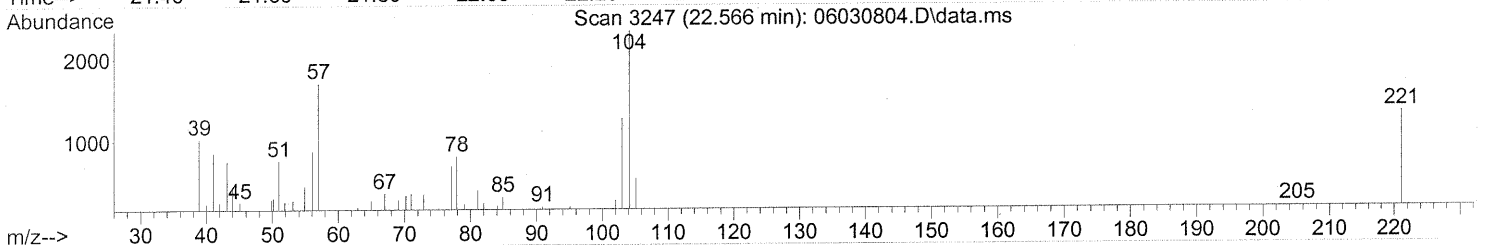
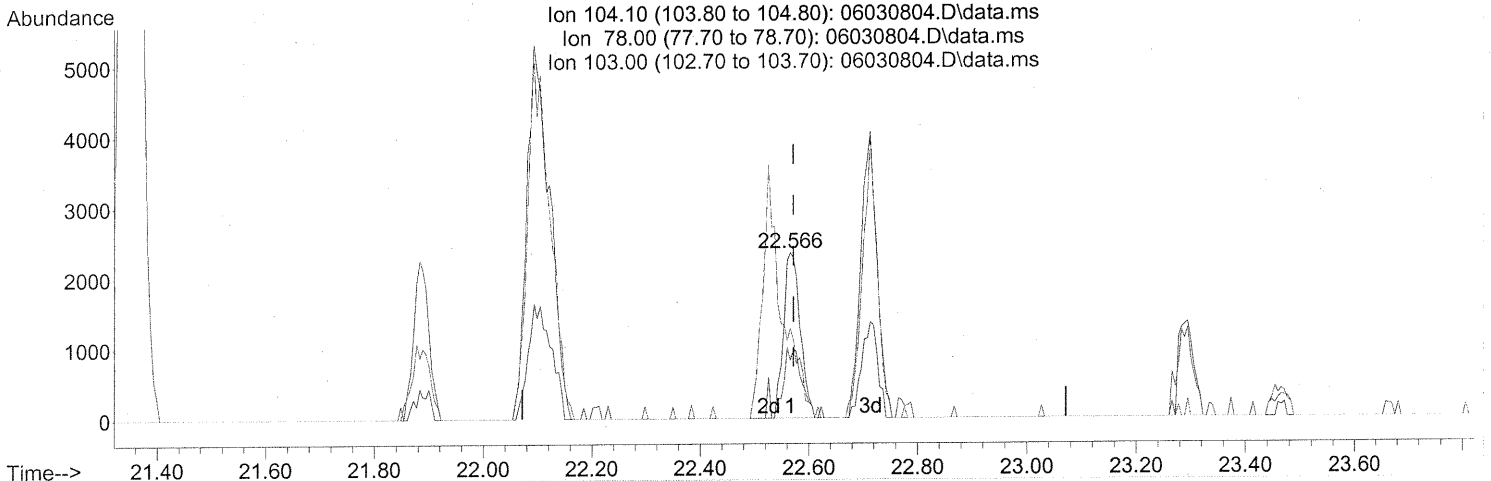
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.24
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.566min (-0.006) 0.09ng

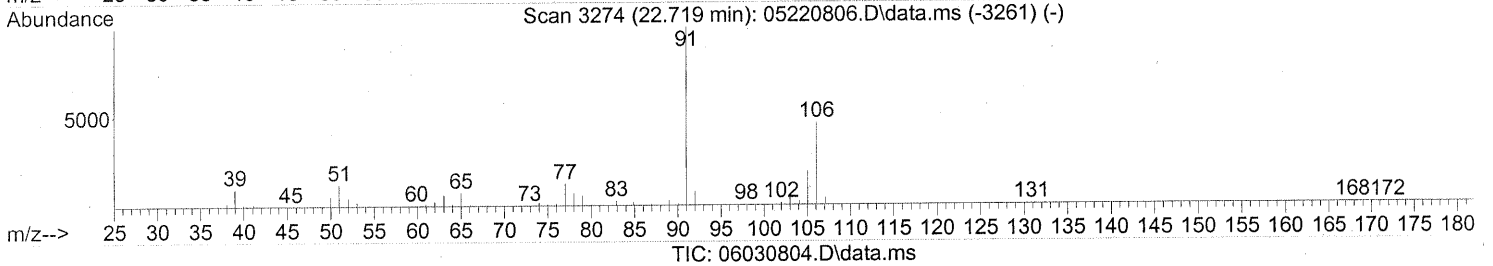
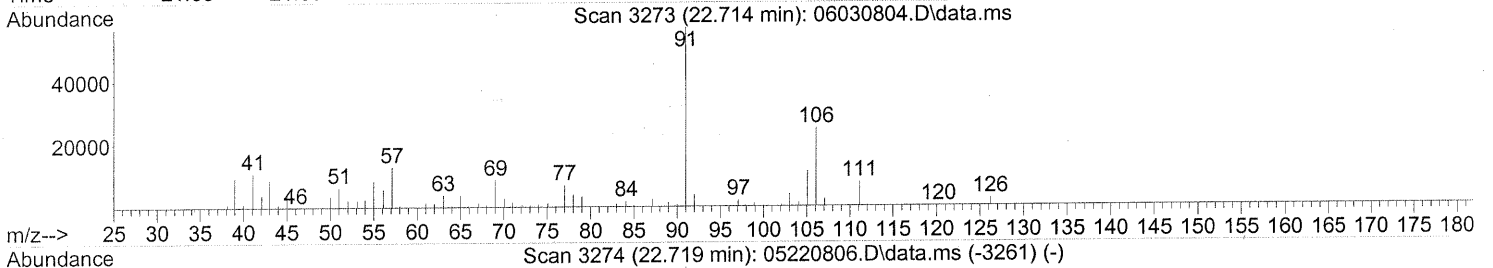
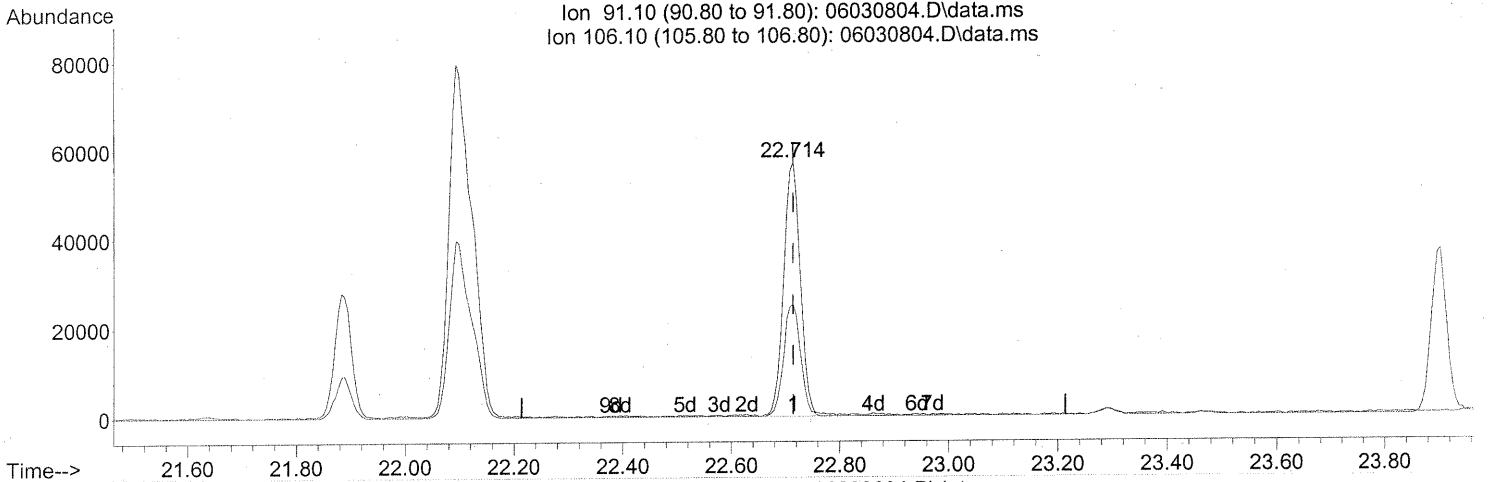
response 5026

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	45.26
103.00	47.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



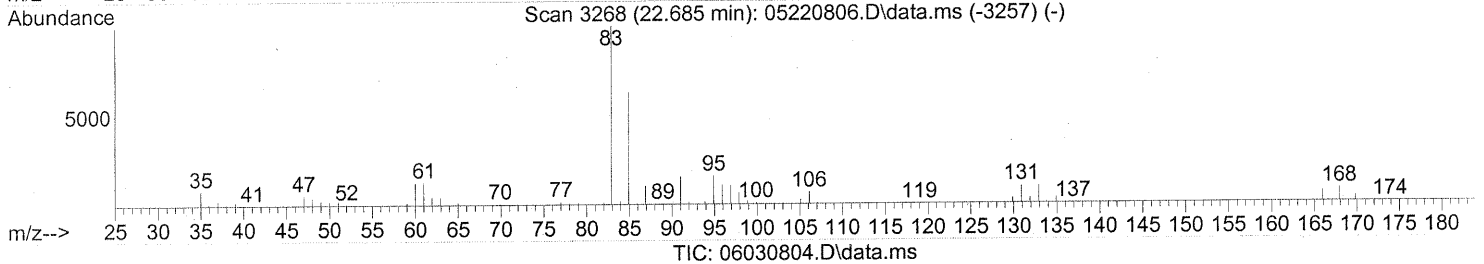
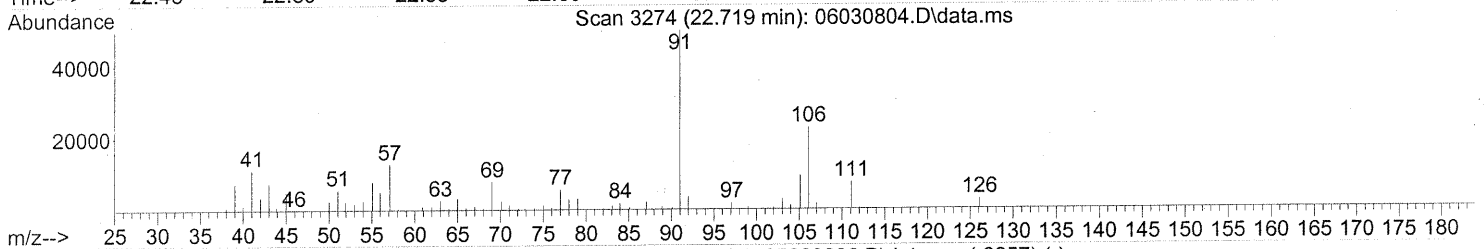
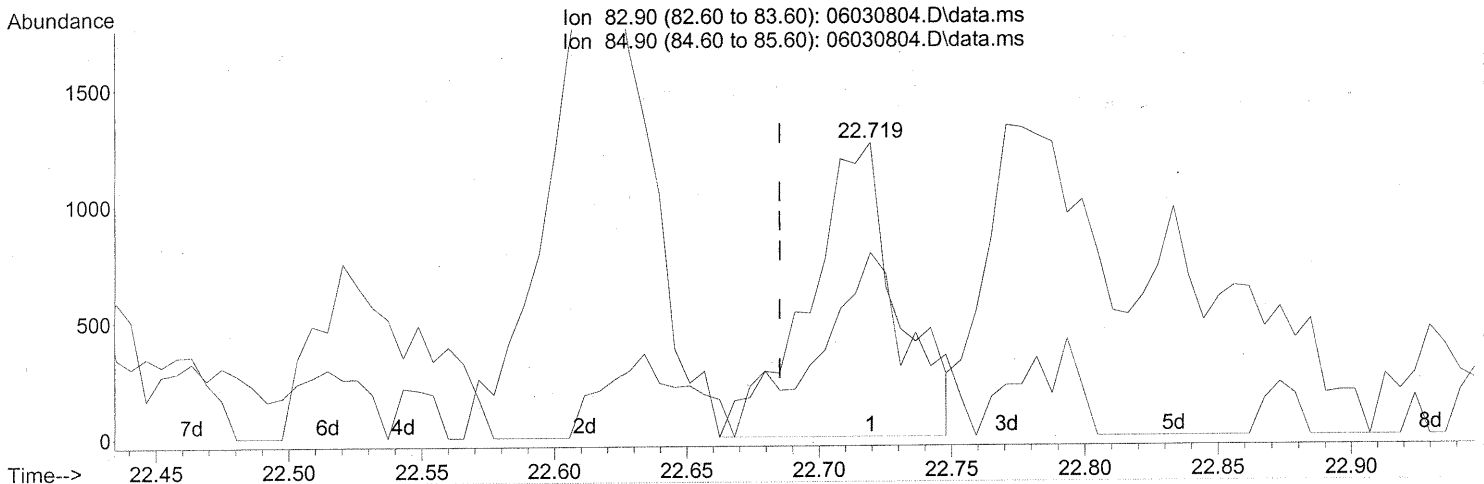
(70) o-Xylene (T)  
 22.714min (+0.000) 1.81ng  
 response 122672

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	44.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.719min (+0.034) 0.10ng

response 2931

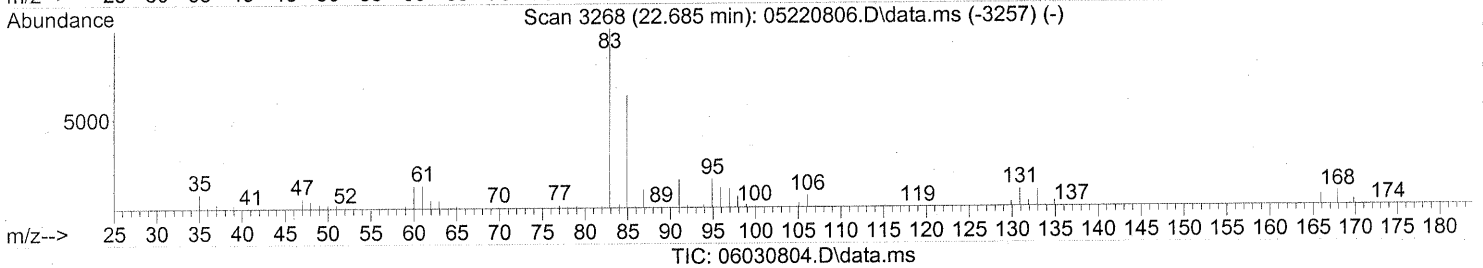
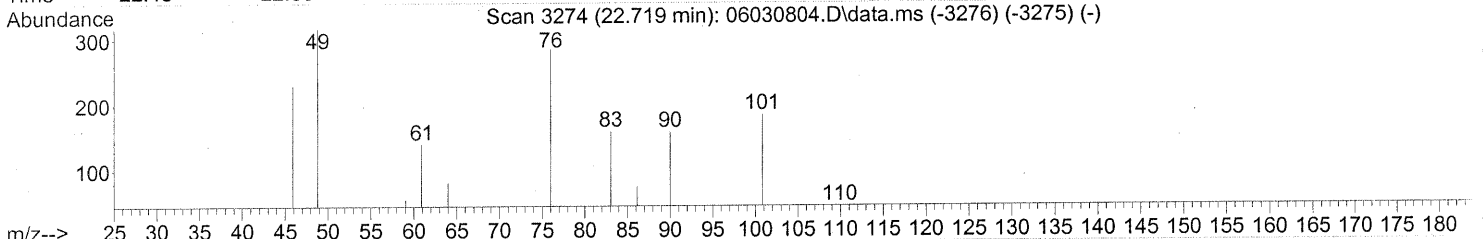
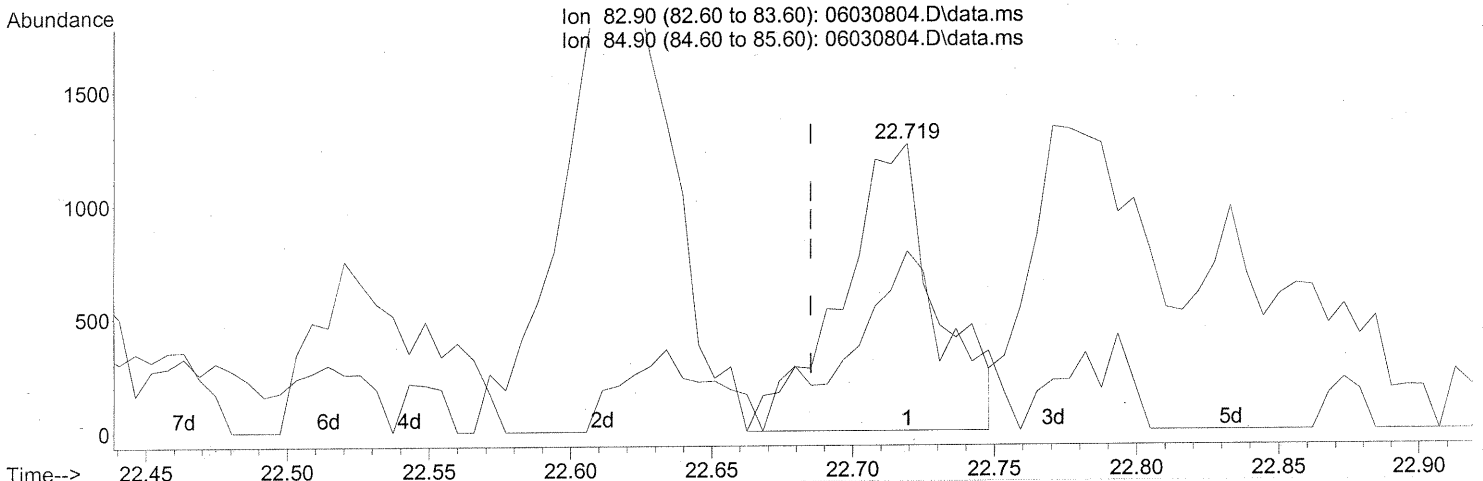
Ion	Exp%	Act%
82.90	100	100
84.90	66.10	59.37
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.719min (+0.034) 0.10ng

response 2931

Ion	Exp%	Act%
82.90	100	100
84.90	66.10	59.37
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

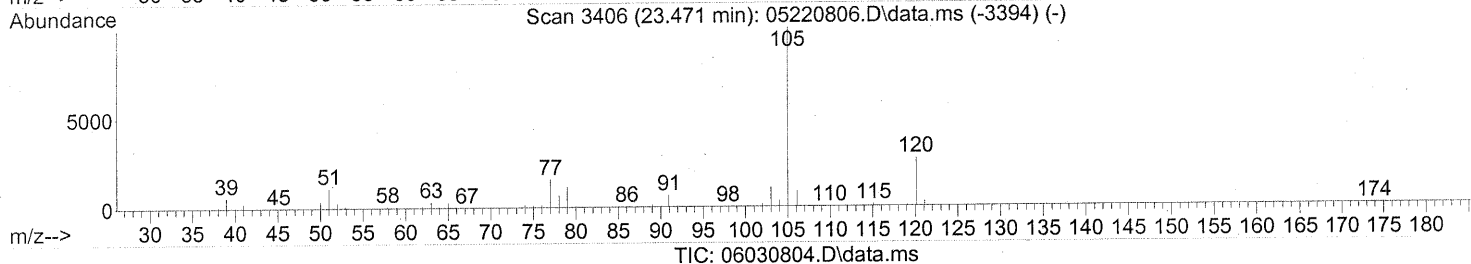
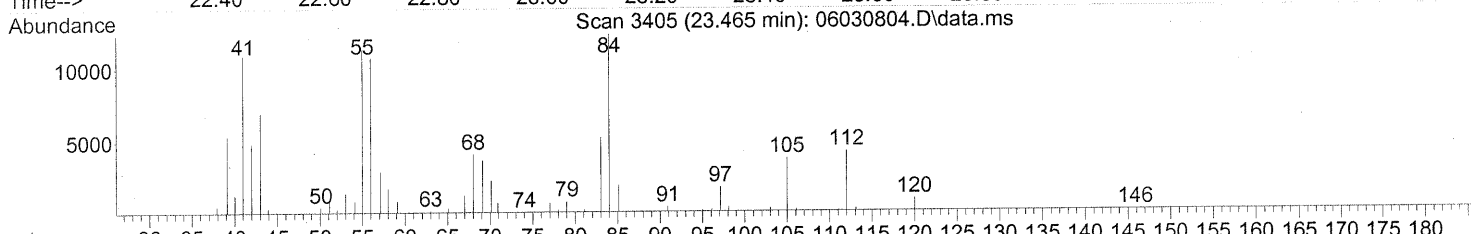
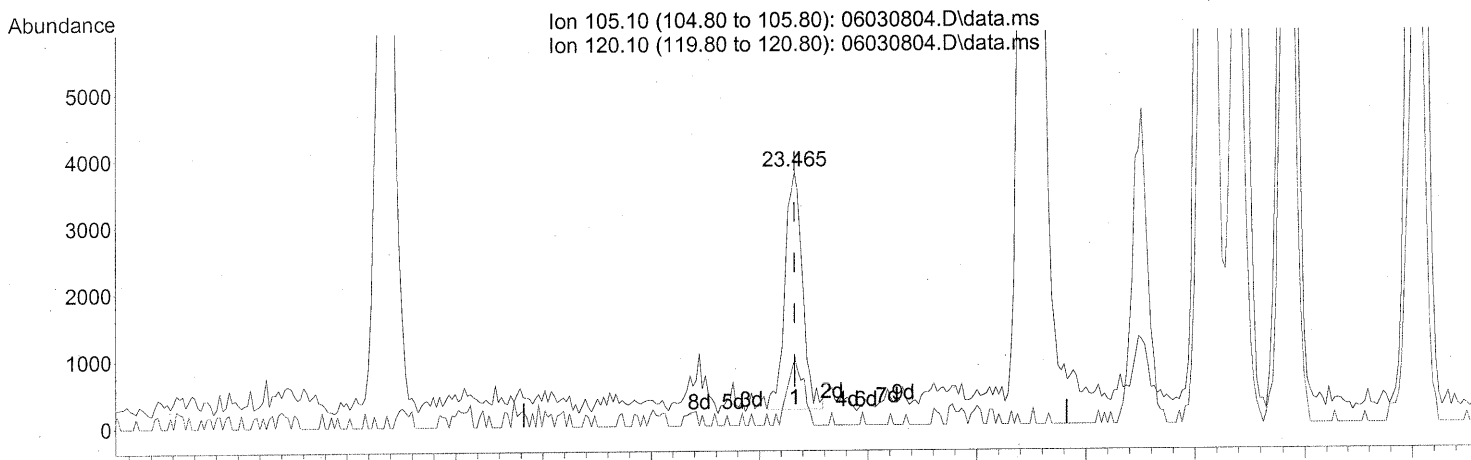
*F. 06/07/08*

*E. 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (+0.000) 0.09ng

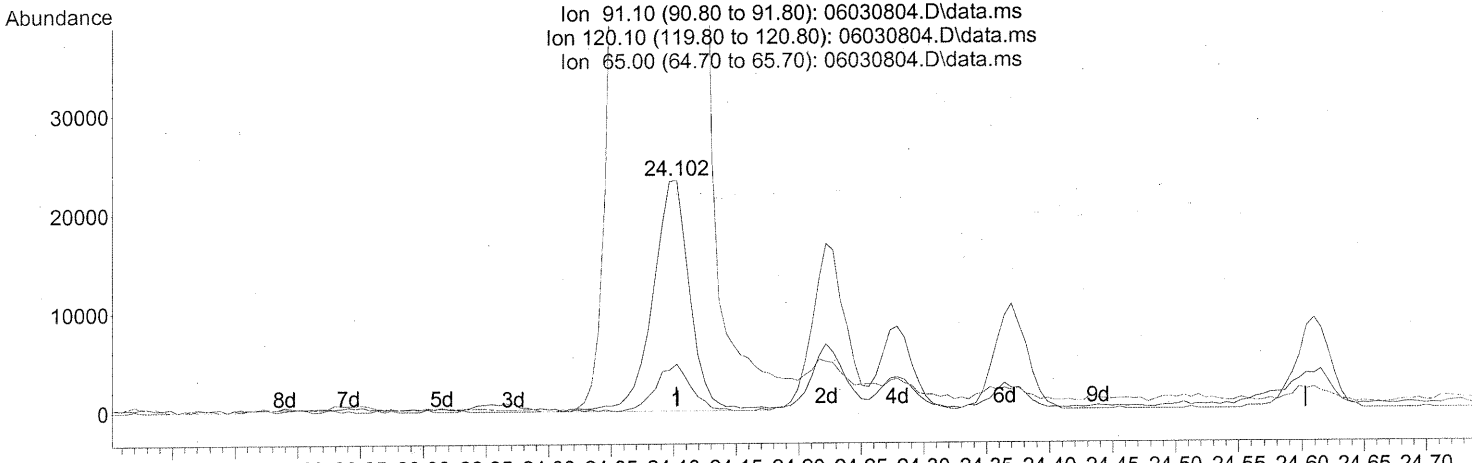
response 7988

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (+0.000) 0.42ng  
 response 47947

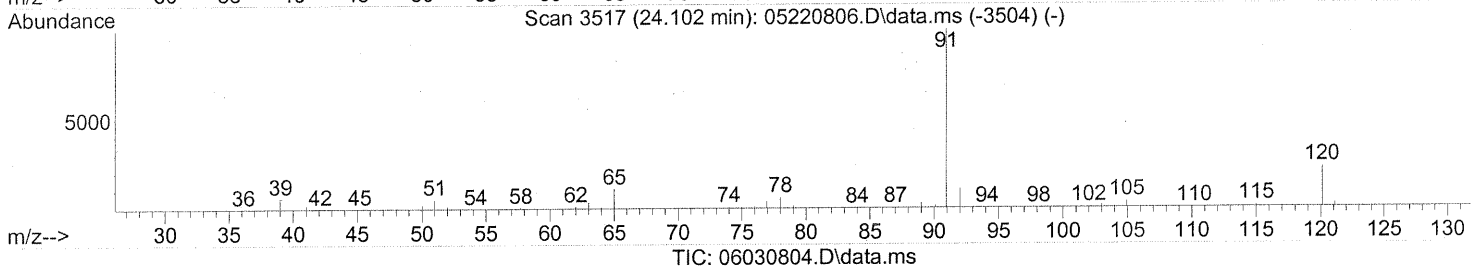
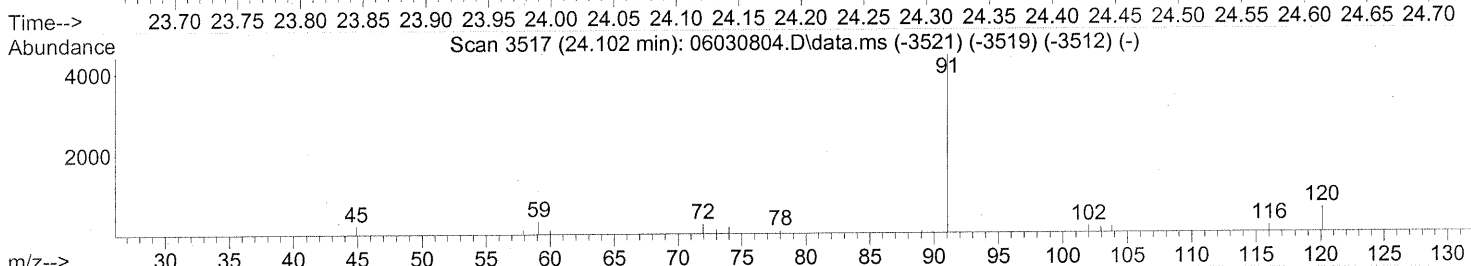
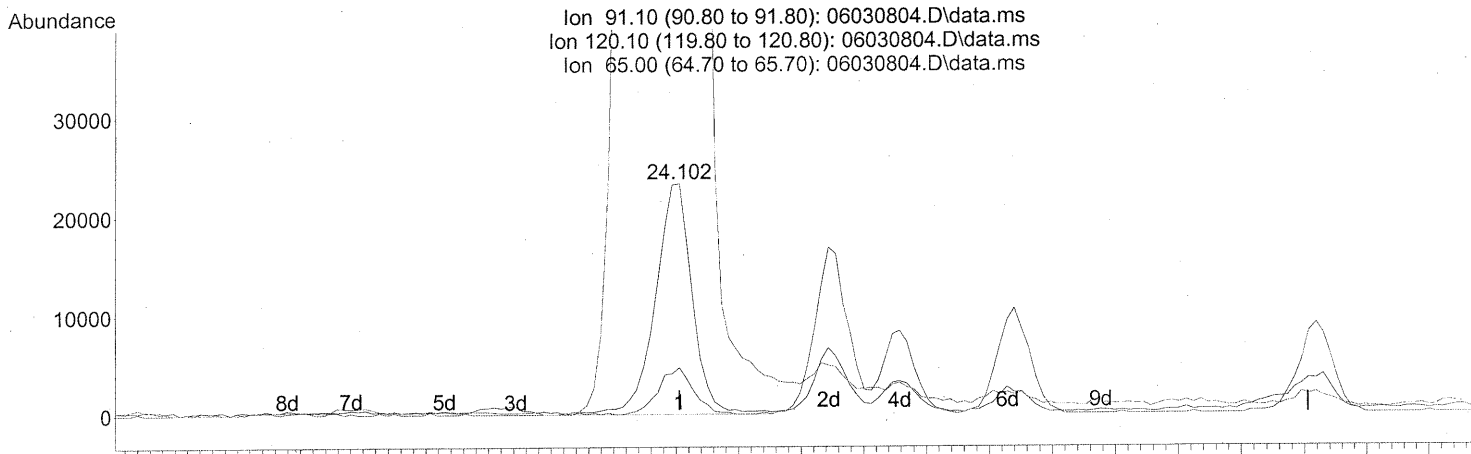
BEFORE SUBTRACTION

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.05
65.00	11.40	5168.81#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (+0.000) 0.42ng  
 response 47947

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.05
65.00	11.40	5168.81#
0.00	0.00	0.00

AFTER SUBTRACTION

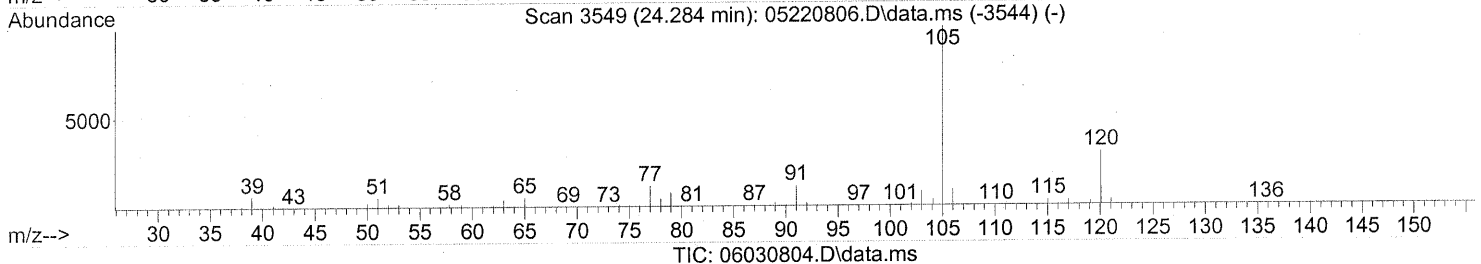
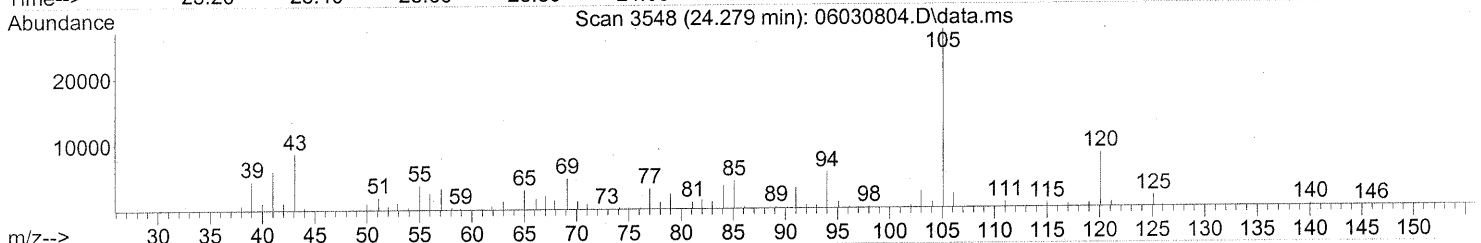
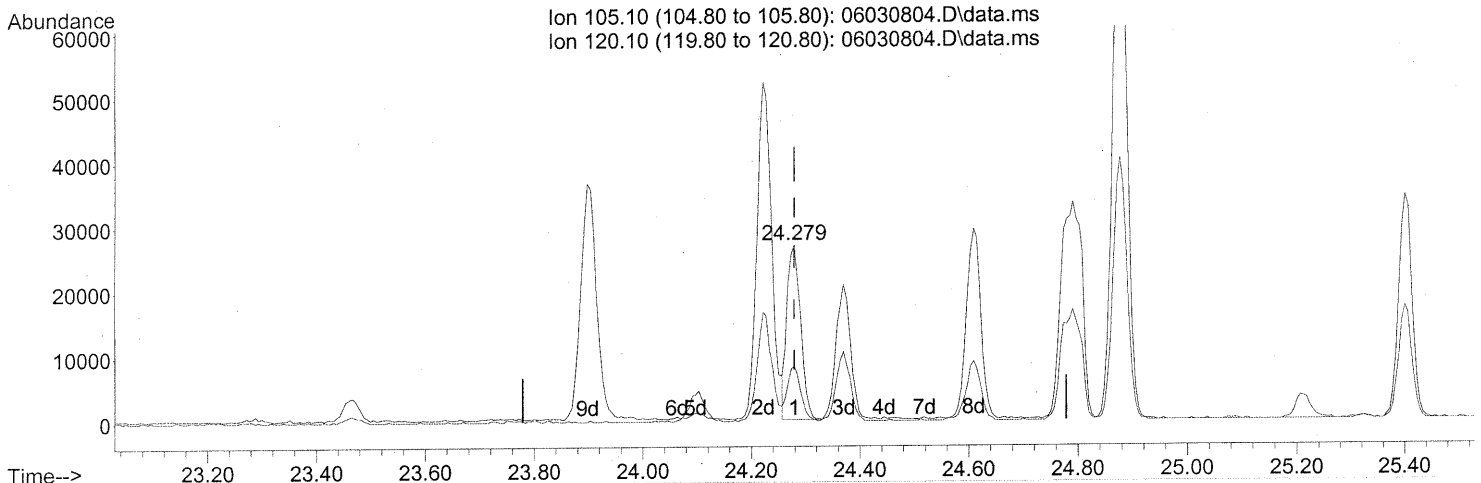
*Signature*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)  
 24.279min (+0.000) 0.53ng  
 response 47272

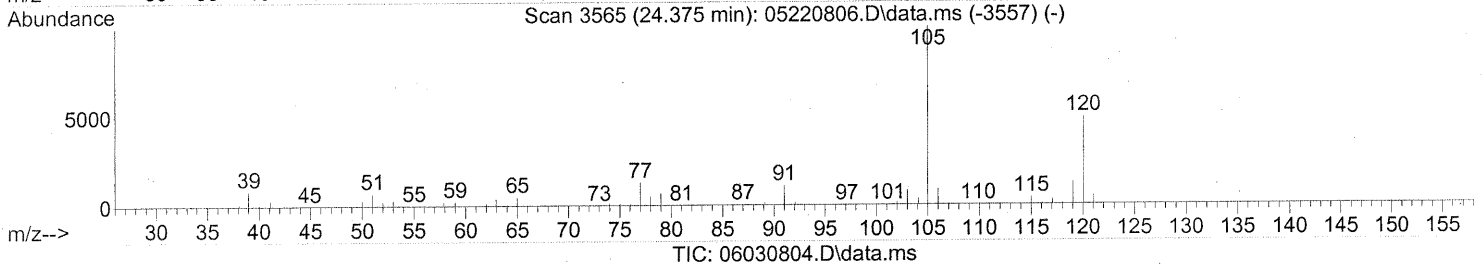
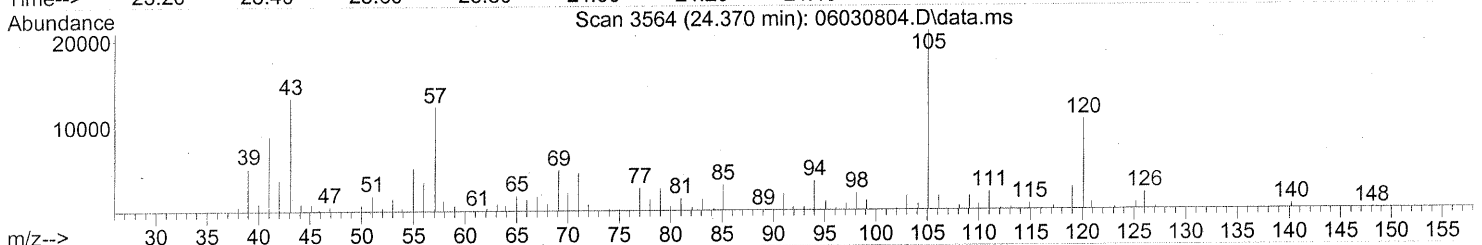
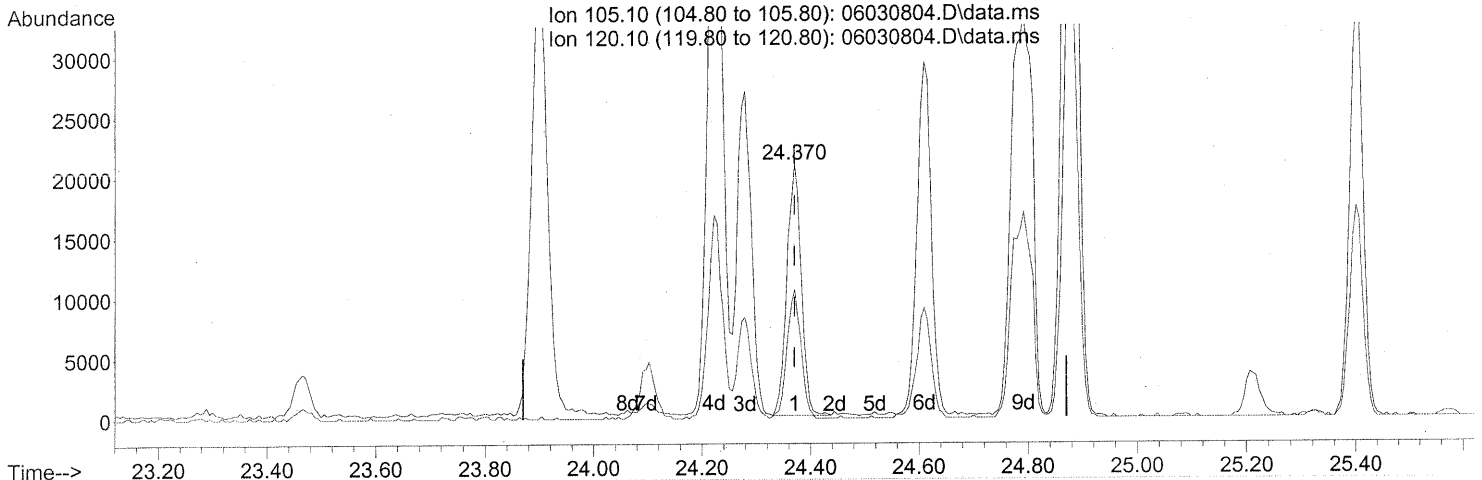
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	30.80
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (+0.000) 0.47ng

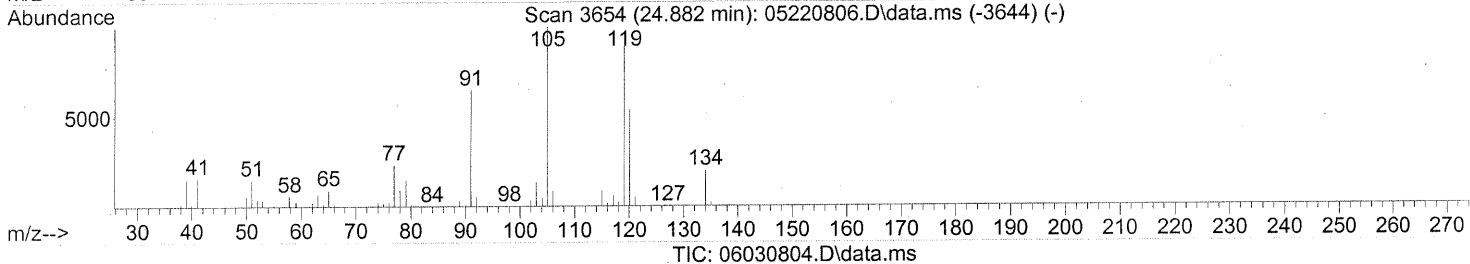
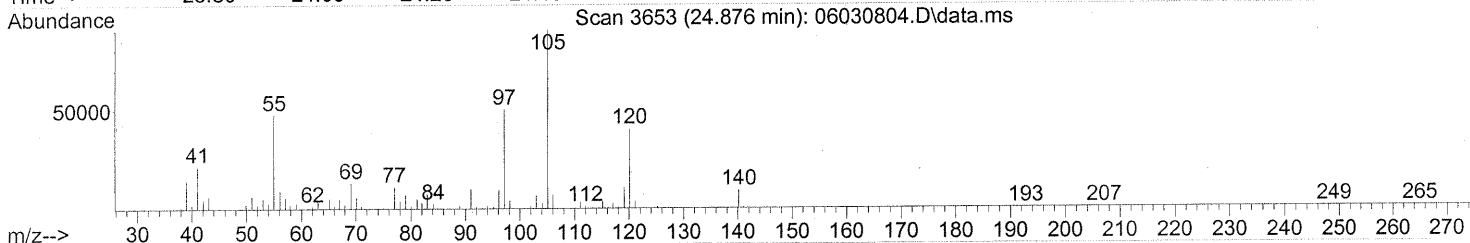
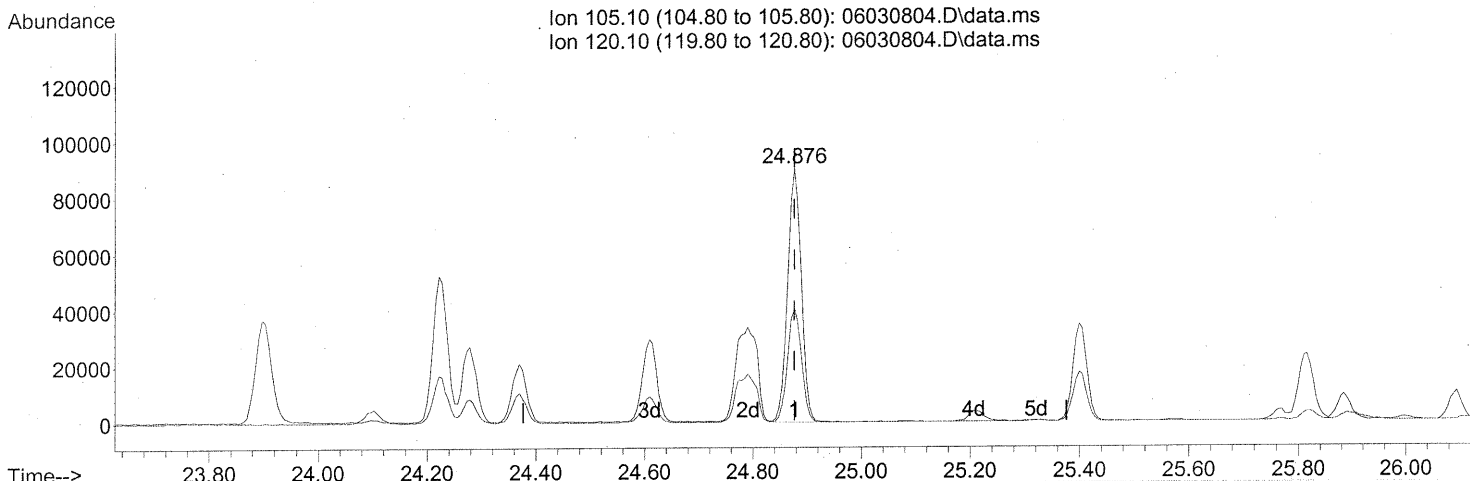
response 38363

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (+0.000) 1.91ng

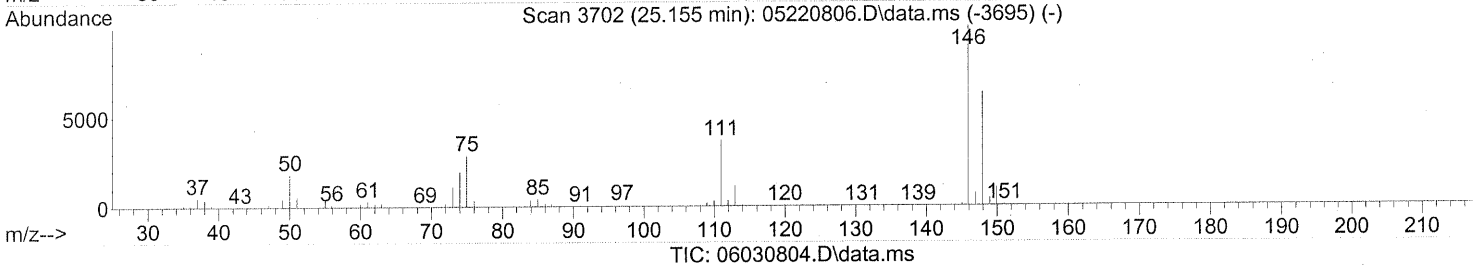
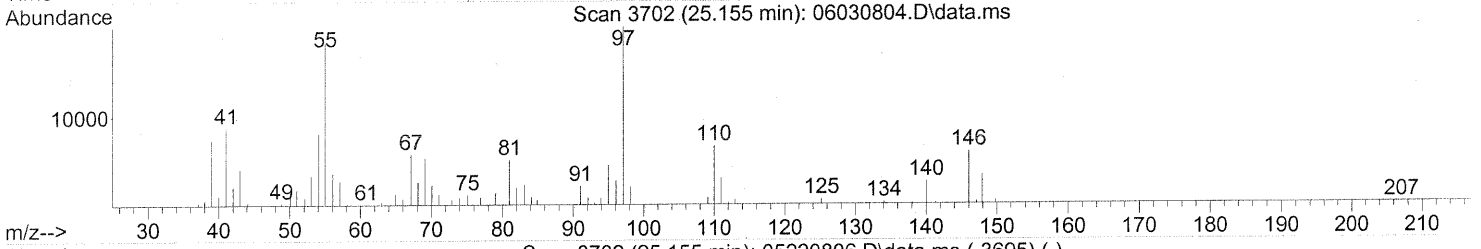
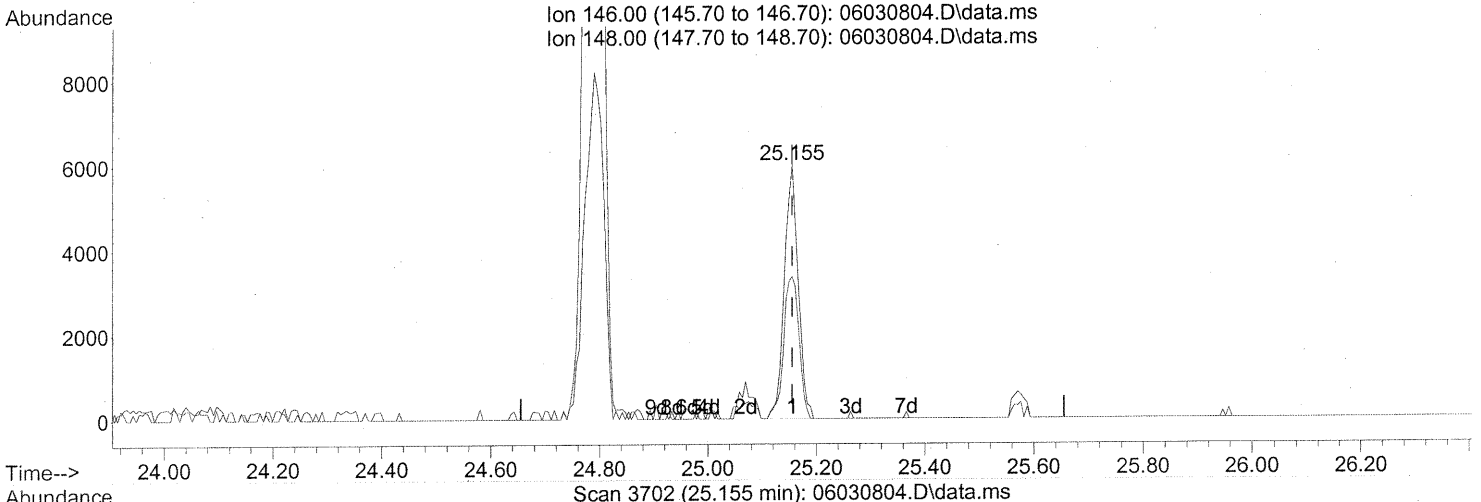
response 157698

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.71
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 0.22ng

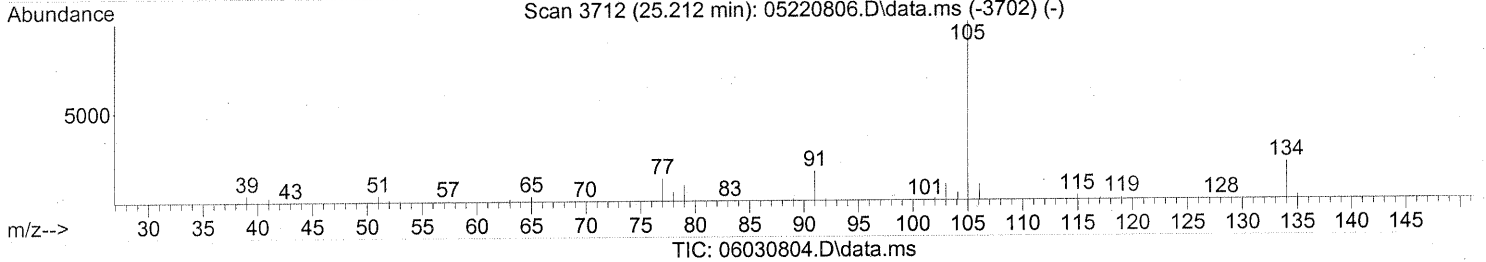
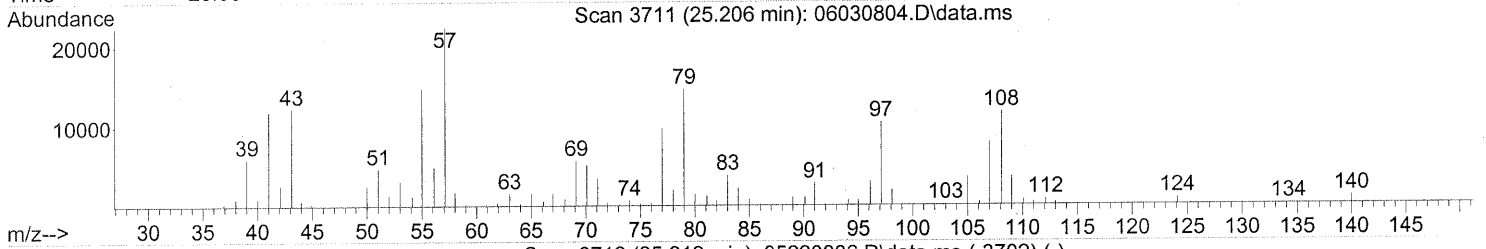
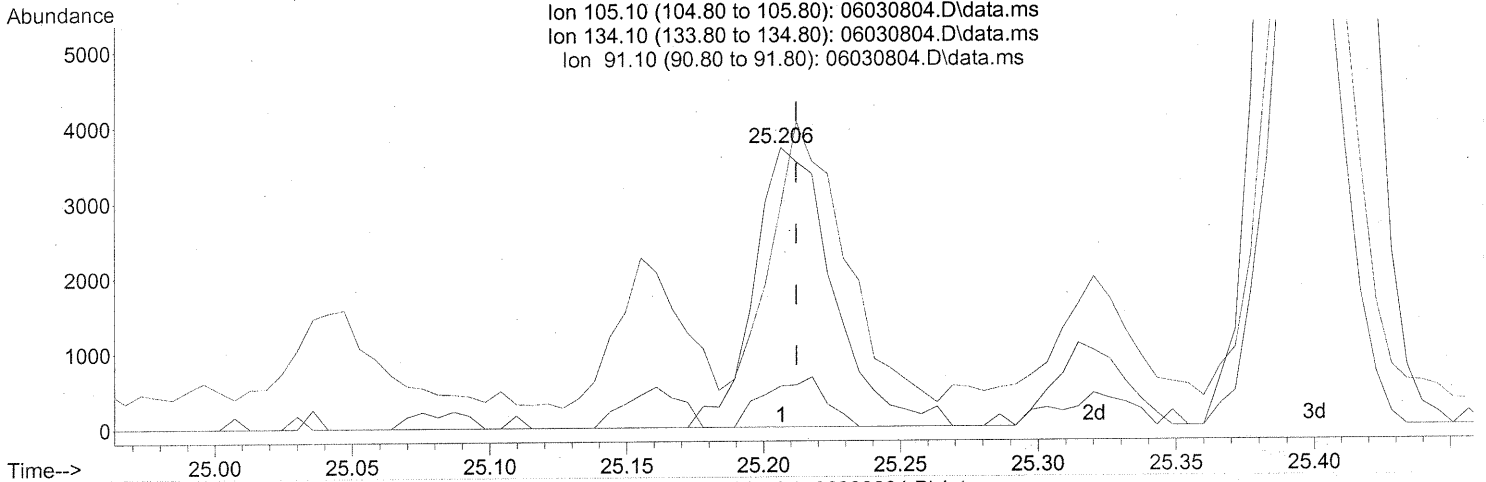
response 10766

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	62.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.07ng

response 7445

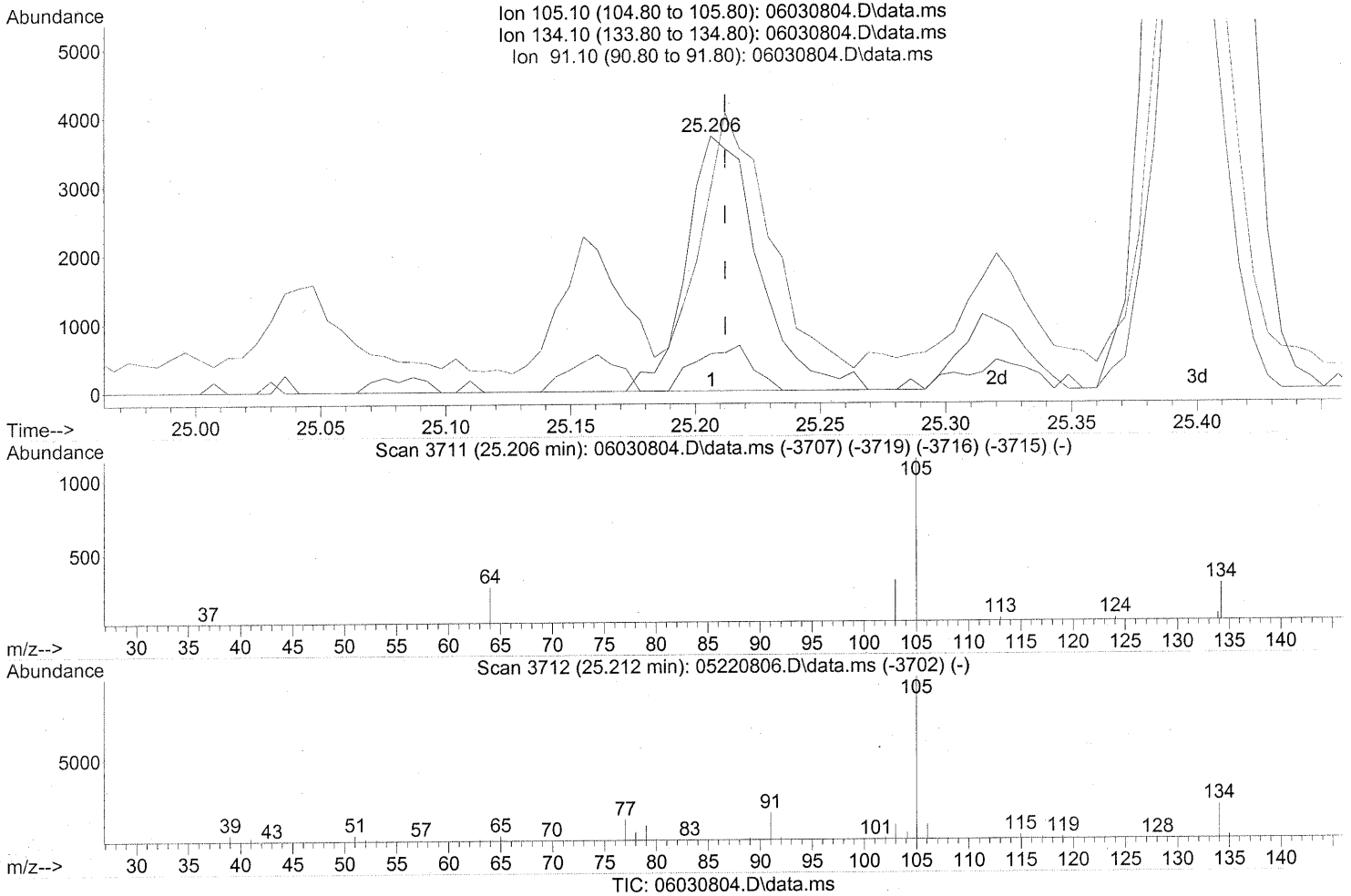
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	13.70
91.10	14.60	95.26#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.206min (-0.006) 0.07ng

response 7445

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	13.70
91.10	14.60	95.26#
0.00	0.00	0.00

AFTER SUBTRACTION

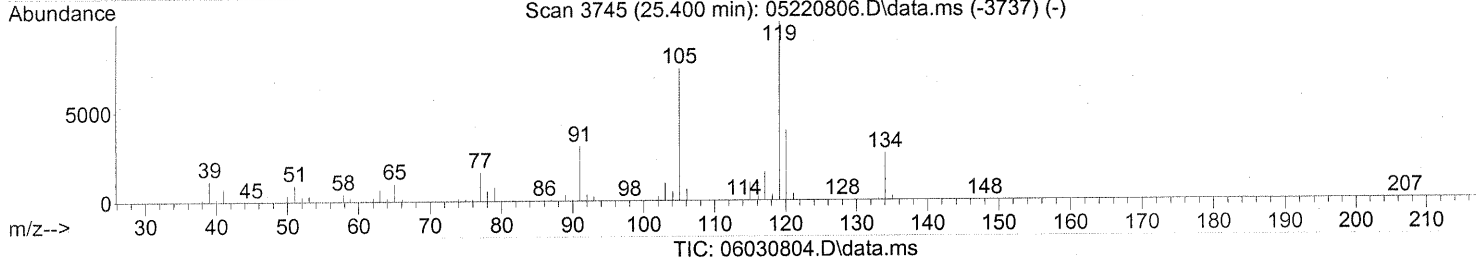
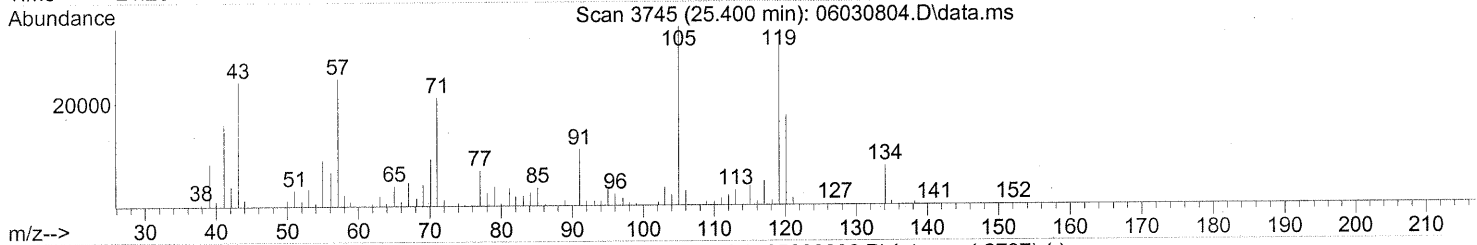
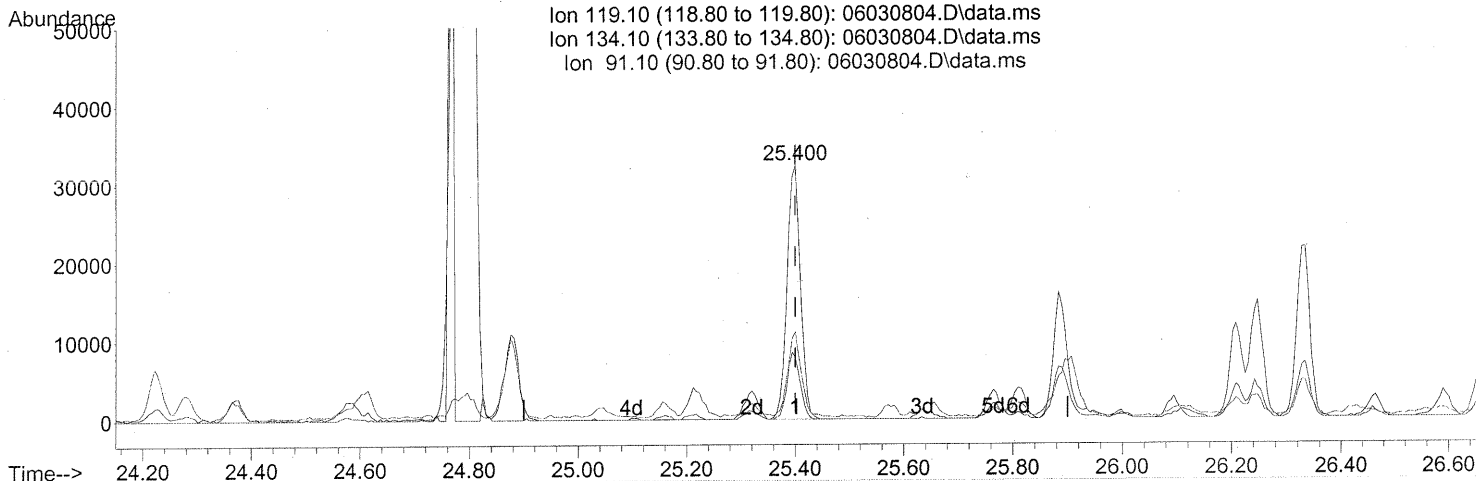
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 0.64ng

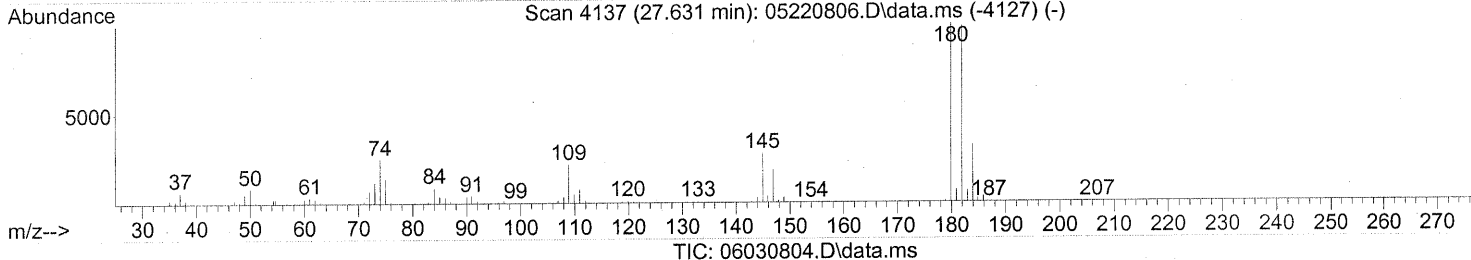
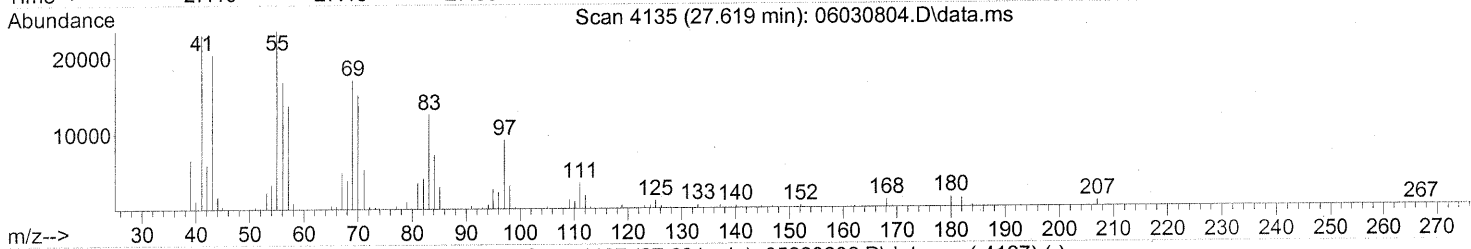
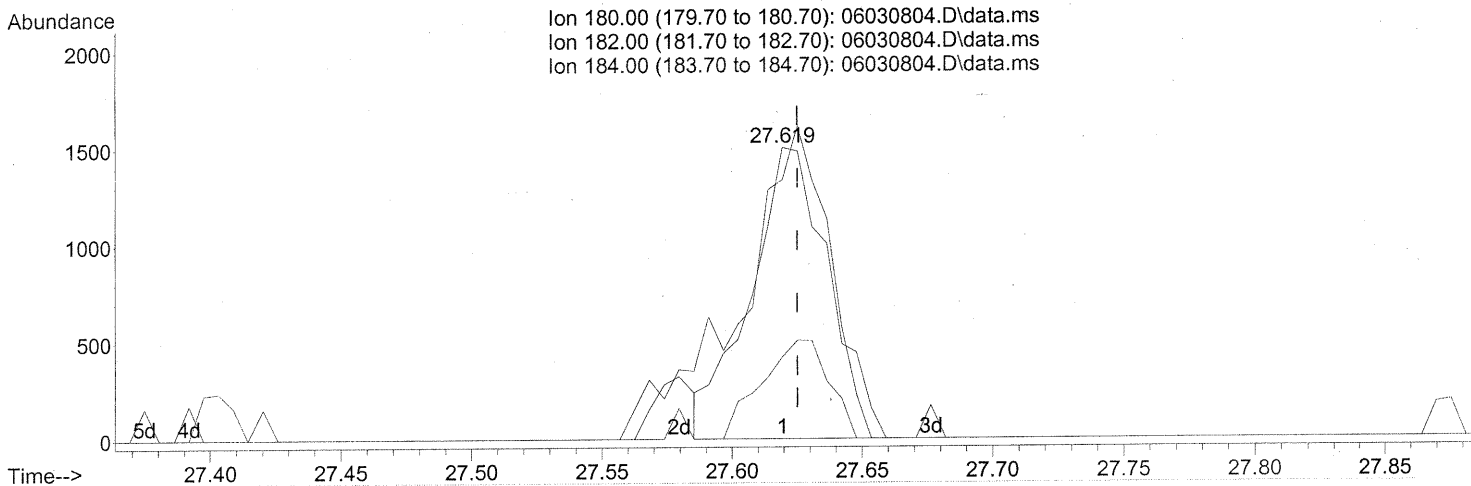
response 55257

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	25.43
91.10	27.10	34.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(94) 1,2,4-Trichlorobenzene (T)

27.619min (-0.006) 0.09ng

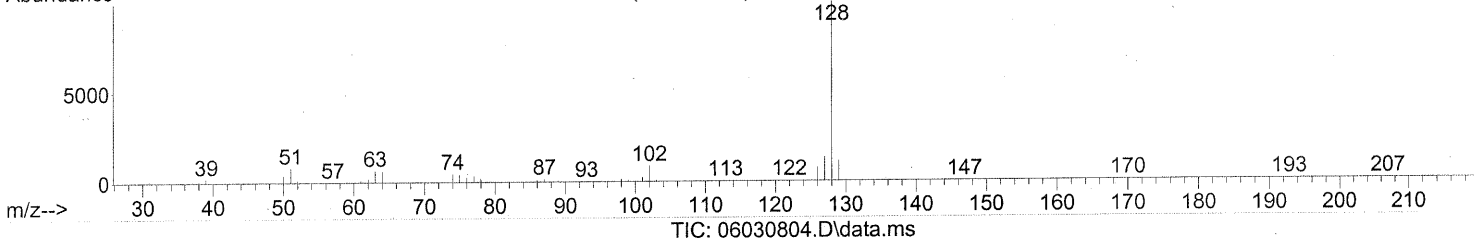
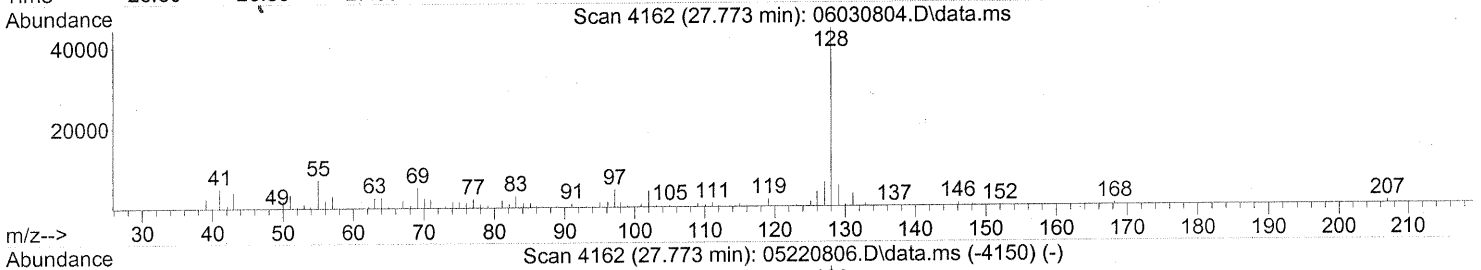
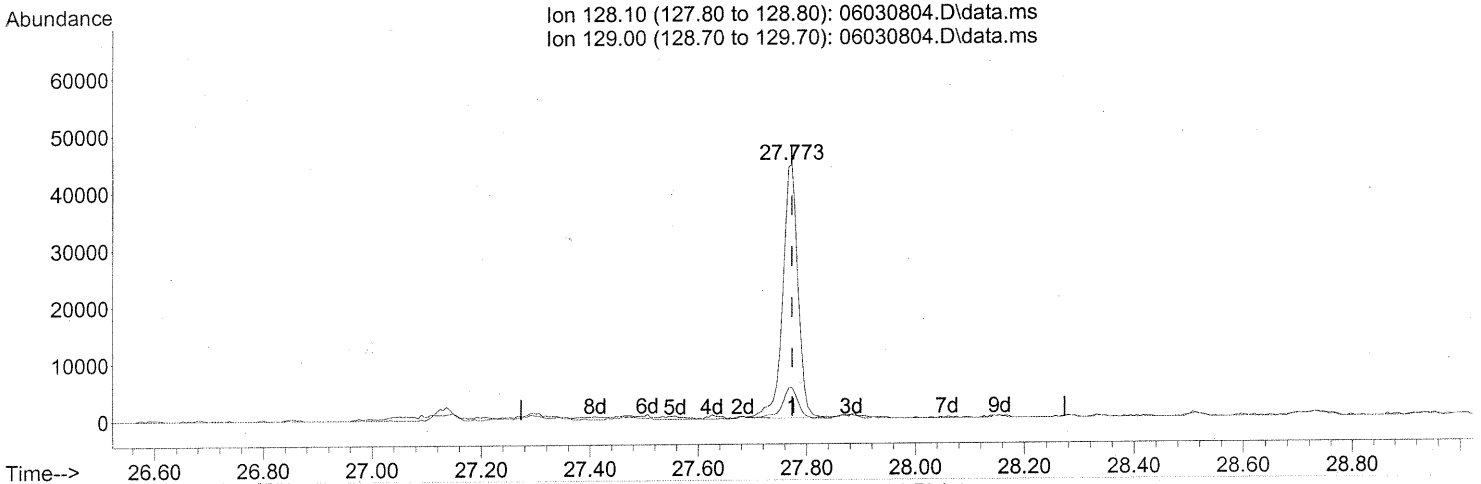
response 3153

Ion	Exp%	Act%
180.00	100	100
182.00	95.20	121.44#
184.00	30.30	28.96
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 07 18:46:58 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(95) Naphthalene (T)  
27.773min (+0.000) 0.80ng

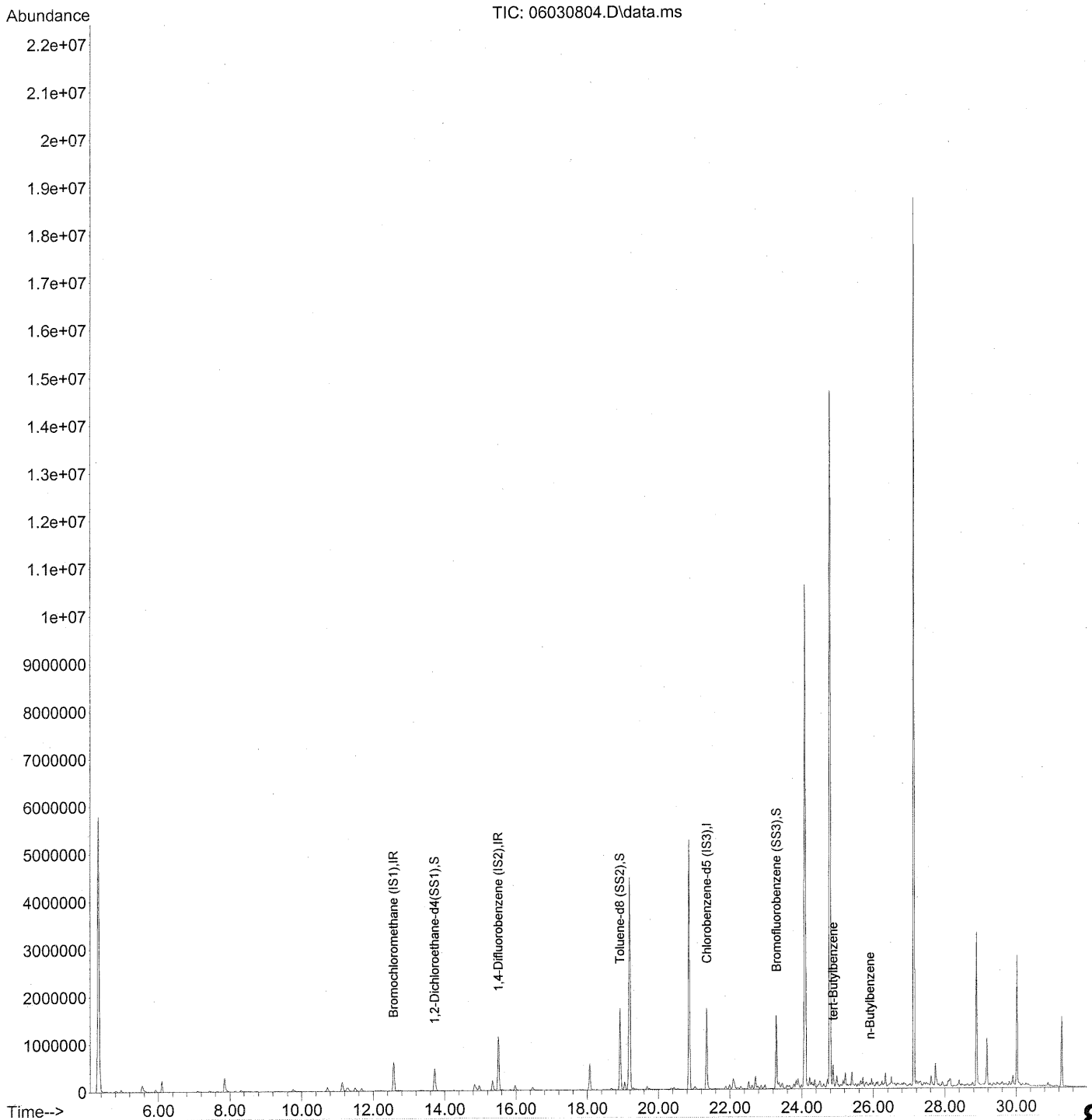
response 87421

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.05
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030804.D  
Acq On : 3 Jun 2008 11:45 am  
Operator : RTB  
Sample : P0801548-014 (1000mL)  
Misc : ENSR SG49B-05 (-3.5, 3.5)  
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:23:04 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:23:04 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	322556	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1372542	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	672270	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	500336	22.387	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.56%	✓
5) Toluene-d8 (SS2)	18.92	98	1436562	23.793	ng	-0.02
Spiked Amount	25.000		Recovery	=	95.16%	✓
6) Bromofluorobenzene (SS3)	23.29	174	597043	24.317	ng	0.00
Spiked Amount	25.000		Recovery	=	97.28%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	20225	<del>0.256</del>	ng	# 54
8) n-Butylbenzene	25.91	91	20925	0.240	ng	# 56

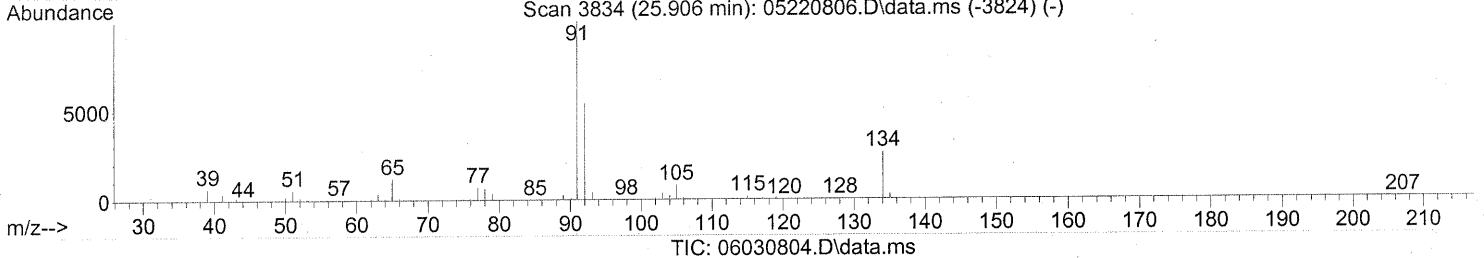
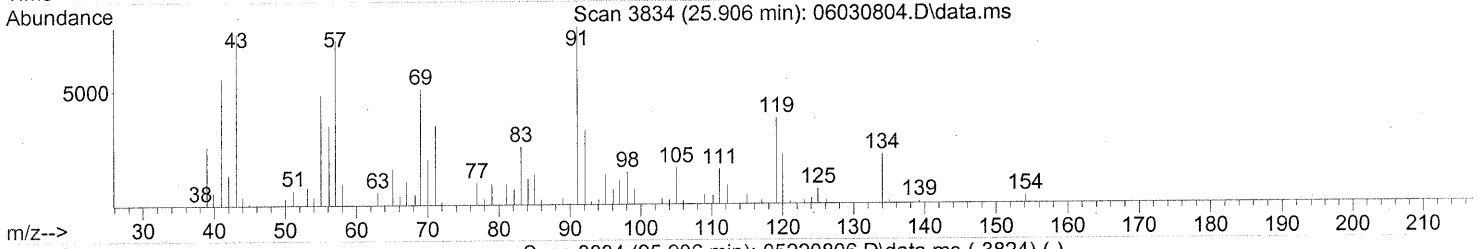
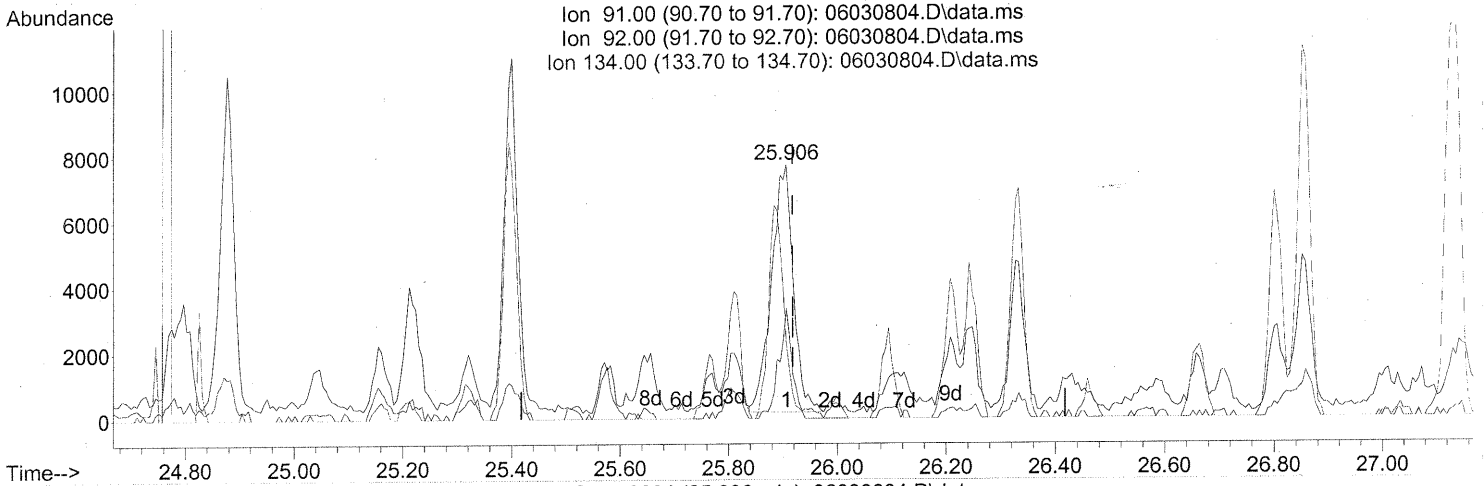
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/8/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030804.D  
 Acq On : 3 Jun 2008 11:45 am  
 Operator : RTB  
 Sample : P0801548-014 (1000mL)  
 Misc : ENSR SG49B-05 (-3.5, 3.5)  
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 08 17:23:04 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.906min (-0.011) 0.24ng

response 20925

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	27.01#
134.00	28.80	0.00#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00042

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2 - 6/3/08  
**Volume(s) Analyzed:** 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.5	0.15	0.38	0.31	0.031	
74-87-3	Chloromethane	0.46	0.31	0.15	0.22	0.15	0.074	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.5	0.15	ND	0.22	0.022	
75-01-4	Vinyl Chloride	1.3	0.31	0.15	0.51	0.12	0.060	
74-83-9	Bromomethane	0.50	0.31	0.15	0.13	0.079	0.039	
75-00-3	Chloroethane	1.5	0.31	0.15	0.57	0.12	0.058	
64-17-5	Ethanol	11	15	0.15	5.9	8.1	0.081	J, B
67-64-1	Acetone	35	15	0.22	15	6.4	0.094	B
75-69-4	Trichlorofluoromethane	5.2	0.31	0.15	0.93	0.054	0.027	
107-13-1	Acrylonitrile	ND	1.5	0.21	ND	0.71	0.099	
75-35-4	1,1-Dichloroethene	51	0.31	0.15	13	0.077	0.039	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	17	1.5	0.23	5.7	0.50	0.075	
75-09-2	Methylene Chloride	0.89	1.5	0.15	0.26	0.44	0.044	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.31	0.15	ND	0.098	0.049	
76-13-1	Trichlorotrifluoroethane	0.68	0.31	0.17	0.089	0.040	0.022	
75-15-0	Carbon Disulfide	4.6	1.5	0.37	1.5	0.49	0.12	
156-60-5	trans-1,2-Dichloroethene	ND	0.31	0.15	ND	0.077	0.039	
75-34-3	1,1-Dichloroethane	290	0.31	0.15	73	0.076	0.038	
1634-04-4	Methyl tert-Butyl Ether	ND	0.31	0.15	ND	0.085	0.042	
108-05-4	Vinyl Acetate	4.3	15	0.49	1.2	4.3	0.14	J, B
78-93-3	2-Butanone (MEK)	10	1.5	0.15	3.4	0.52	0.052	B
156-59-2	cis-1,2-Dichloroethene	ND	0.31	0.15	ND	0.077	0.039	
108-20-3	Diisopropyl Ether	ND	1.5	0.18	ND	0.37	0.043	
67-66-3	Chloroform	65	0.31	0.18	13	0.063	0.037	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:         

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00042

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2 - 6/3/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.5	0.16	ND	0.37	0.037	
107-06-2	1,2-Dichloroethane	ND	0.31	0.15	ND	0.076	0.038	
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>14</b>	0.31	0.15	<b>2.6</b>	0.056	0.028	
71-43-2	<b>Benzene</b>	<b>6.8</b>	0.31	0.15	<b>2.1</b>	0.096	0.048	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.46</b>	0.31	0.15	<b>0.073</b>	0.049	0.024	
994-05-8	tert-Amyl Methyl Ether	ND	1.5	0.15	ND	0.37	0.037	
78-87-5	1,2-Dichloropropane	ND	0.31	0.15	ND	0.066	0.033	
75-27-4	Bromodichloromethane	ND	0.31	0.15	ND	0.046	0.023	
79-01-6	<b>Trichloroethene</b>	<b>180</b>	0.31	0.15	<b>33</b>	0.057	0.028	
123-91-1	<b>1,4-Dioxane</b>	<b>2.8</b>	1.5	0.19	<b>0.78</b>	0.42	0.052	
80-62-6	Methyl Methacrylate	ND	1.5	0.23	ND	0.37	0.056	
142-82-5	<b>n-Heptane</b>	<b>4.6</b>	1.5	0.20	<b>1.1</b>	0.37	0.048	
10061-01-5	cis-1,3-Dichloropropene	ND	1.5	0.16	ND	0.34	0.035	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>5.2</b>	1.5	0.17	<b>1.3</b>	0.37	0.042	
10061-02-6	trans-1,3-Dichloropropene	ND	1.5	0.19	ND	0.34	0.042	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.25</b>	0.31	0.15	<b>0.046</b>	0.056	0.028	<b>J</b>
108-88-3	<b>Toluene</b>	<b>23</b>	1.5	0.15	<b>6.0</b>	0.41	0.041	
591-78-6	<b>2-Hexanone</b>	<b>1.4</b>	1.5	0.23	<b>0.35</b>	0.37	0.057	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.31	0.21	ND	0.036	0.024	
106-93-4	1,2-Dibromoethane	ND	0.31	0.17	ND	0.040	0.022	
111-65-9	<b>n-Octane</b>	<b>4.9</b>	1.5	0.15	<b>1.1</b>	0.33	0.033	
127-18-4	<b>Tetrachloroethene</b>	<b>330</b>	0.31	0.15	<b>48</b>	0.045	0.023	
108-90-7	<b>Chlorobenzene</b>	<b>0.90</b>	0.31	0.16	<b>0.20</b>	0.066	0.034	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG66B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-015

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00042

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2 - 6/3/08  
 Volume(s) Analyzed: 0.50 Liter(s)  
 0.025 Liter(s)

Initial Pressure (psig): -2.8      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.53

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.62	1.5	0.19	0.14	0.35	0.044	J
179601-23-1	m,p-Xylenes	2.9	1.5	0.40	0.67	0.35	0.092	
75-25-2	Bromoform	ND	1.5	0.23	ND	0.15	0.023	
100-42-5	Styrene	0.33	1.5	0.23	0.077	0.36	0.055	J
95-47-6	o-Xylene	1.8	1.5	0.19	0.41	0.35	0.044	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.31	0.20	ND	0.045	0.029	
98-82-8	Cumene	0.40	1.5	0.17	0.081	0.31	0.035	J
103-65-1	n-Propylbenzene	ND	1.5	0.16	ND	0.31	0.032	
622-96-8	4-Ethyltoluene	0.31	1.5	0.17	0.064	0.31	0.035	J
108-67-8	1,3,5-Trimethylbenzene	5.7	1.5	0.18	1.2	0.31	0.037	
98-83-9	alpha-Methylstyrene	0.32	1.5	0.22	0.066	0.32	0.046	J
95-63-6	1,2,4-Trimethylbenzene	2.1	1.5	0.21	0.42	0.31	0.043	
100-44-7	Benzyl Chloride	ND	0.31	0.26	ND	0.059	0.051	
541-73-1	1,3-Dichlorobenzene	ND	0.31	0.19	ND	0.051	0.032	
106-46-7	1,4-Dichlorobenzene	2.8	0.31	0.17	0.46	0.051	0.029	
135-98-8	sec-Butylbenzene	0.44	1.5	0.18	0.080	0.28	0.032	J
99-87-6	4-Isopropyltoluene (p-Cymene)	2.6	1.5	0.20	0.47	0.28	0.036	
95-50-1	1,2-Dichlorobenzene	1.1	0.31	0.20	0.18	0.051	0.034	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.5	0.23	ND	0.16	0.024	
120-82-1	1,2,4-Trichlorobenzene	ND	0.31	0.23	ND	0.041	0.031	
91-20-3	Naphthalene	ND	0.61	0.23	ND	0.12	0.043	
87-68-3	Hexachlorobutadiene	ND	0.31	0.28	ND	0.029	0.026	
98-06-6	tert-Butylbenzene	0.35	0.61	0.15	0.065	0.11	0.028	J
104-51-8	n-Butylbenzene	ND	0.61	0.15	ND	0.11	0.028	

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

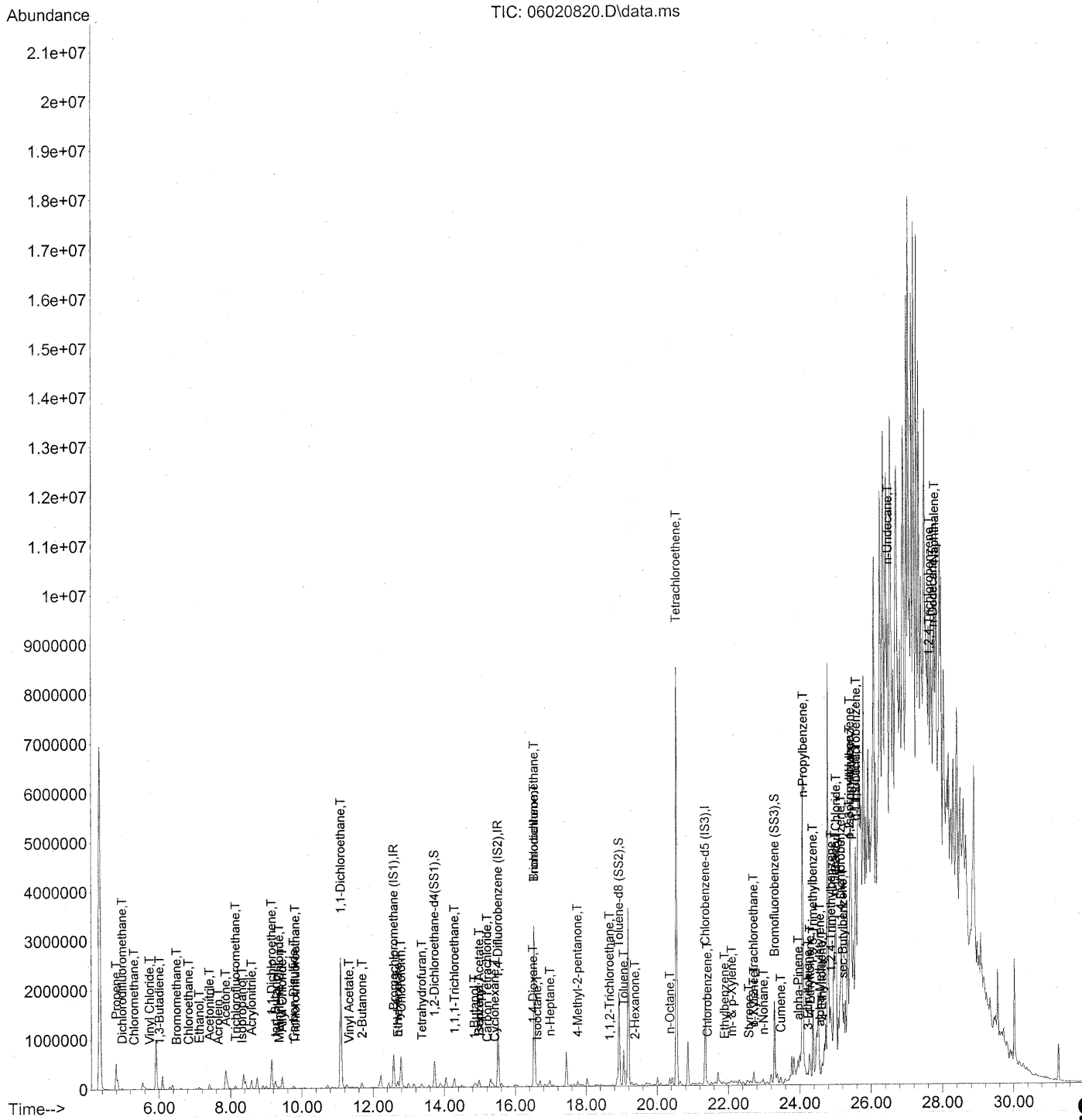
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020820.D  
Acq On : 2 Jun 2008 11:08 pm  
Operator : RTB  
Sample : P0801548-015 (500mL)  
Misc : ENSR SG66B-05 (-2.8, 3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



903

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	362866	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1563667	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	737826	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	553751	22.024	ng	0.00
Spiked Amount				25.000		
				Recovery =	88.08%	✓
57) Toluene-d8 (SS2)	18.93	98	1613599	24.351	ng	0.00
Spiked Amount				25.000		
				Recovery =	97.40%	✓
73) Bromofluorobenzene (SS3)	23.29	174	658070	24.422	ng	0.00
Spiked Amount				25.000		
				Recovery =	97.68%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	270089	9.424	ng	# 79
3) Dichlorodifluoromethane	4.96	85	32311	0.612	ng	99
4) Chloromethane	5.30	50	5125	0.150	ng	87
5) Freon 114	5.53	135	528	N.D.	✓	
6) Vinyl Chloride	5.73	62	14442	0.422	ng	98
7) 1,3-Butadiene	6.01	54	3092	0.121	ng	# 47
8) Bromomethane	6.49	94	3144	0.165	ng	84
9) Chloroethane	6.82	64	8003	0.492	ng	98
10) Ethanol	7.12	45	68923m	3.613	ng	
11) Acetonitrile	7.41	41	36184	0.656	ng	# 26
12) Acrolein	7.66	56	3553	0.261	ng	# 67
13) Acetone	7.86	58	225161	11.527	ng	# 63
14) Trichlorofluoromethane	8.14	101	77116	1.702	ng	98
15) Isopropanol	8.33	45	35416	0.568	ng	# 61
16) Acrylonitrile	8.59	53	20321	0.683	ng	# 24
17) 1,1-Dichloroethene	9.15	96	332689	16.688	ng	# 73
18) tert-Butanol	9.26	59	297177	5.608	ng	92
19) Methylene Chloride	9.36	84	6329	0.290	ng	# 76
20) Allyl Chloride	9.45	41	73659	2.529	ng	# 44
21) Trichlorotrifluoroethane	9.82	151	4593	0.223	ng	96
22) Carbon Disulfide	9.77	76	123793	1.494	ng	100
23) trans-1,2-Dichloroethene	10.73	61	1010	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	3649815	96.350	ng	94
25) Methyl tert-Butyl Ether	11.22	73	2277	N.D.	✓	
26) Vinyl Acetate	11.33	86	5083	1.408	ng	# 31
27) 2-Butanone	11.68	72	46871	3.288	ng	# 82
28) cis-1,2-Dichloroethene	12.36	61	52	N.D.	✓	
29) Diisopropyl Ether	12.70	87	524	N.D.	✓	
30) Ethyl Acetate	12.69	61	3307	0.430	ng	# 27
31) n-Hexane	12.70	57	74555	1.920	ng	88

*Signature*



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	702291	21.224 ng		100
34) Tetrahydrofuran	13.37	72	12451	0.914 ng	#	6
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	940	N.D. ✓		
38) 1,1,1-Trichloroethane	14.29	97	165819	4.656 ng		95
39) Isopropyl Acetate	14.99	61	1263	0.095 ng	#	1
40) 1-Butanol	14.84	56	67448	3.138 ng		99
41) Benzene	14.98	78	183003	2.235 ng		100
42) Carbon Tetrachloride	15.21	117	4721	0.150 ng		99
43) Cyclohexane	15.41	84	6308	0.198 ng	#	1
44) tert-Amyl Methyl Ether	15.67	73	414	N.D. ✓		
45) 1,2-Dichloropropane	16.21	63	124	N.D. ✓		
46) Bromodichloromethane	16.53	83	24608	0.889 ng		75
47) Trichloroethene	16.53	130	1454554	57.914 ng		100
48) 1,4-Dioxane	16.50	88	14125	0.915 ng		90
49) Isooctane	16.62	57	32912	0.351 ng	#	53
50) Methyl Methacrylate	16.78	100	56	N.D. ✓		
51) n-Heptane	16.98	71	32802	1.508 ng	#	80
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	37233	1.713 ng		80
54) trans-1,3-Dichloropropene	18.26	75	68	N.D. ✓		
55) 1,1,2-Trichloroethane	18.67	97	1649	0.082 ng	#	1
58) Toluene	19.06	91	663852	7.370 ng		97
59) 2-Hexanone	19.37	43	29360	0.473 ng		81
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	20.09	107	200	N.D. ✓		
62) Butyl Acetate	20.19	43	1670	N.D.		
63) n-Octane	20.35	57	31941	1.603 ng		89
64) Tetrachloroethene	20.55	166	3344111	125.469 ng		100
65) Chlorobenzene	21.41	112	17843	0.295 ng		96
66) Ethylbenzene	21.89	91	20808	0.201 ng		92
67) m- & p-Xylene	22.09	91	65381	0.946 ng		89
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	6579	0.107 ng		92
70) o-Xylene	22.71	91	43086	0.578 ng		94
71) n-Nonane	22.98	43	64185	1.212 ng	#	74
72) 1,1,2,2-Tetrachloroethane	22.71	83	8152	0.262 ng		83
74) Cumene	23.46	105	12883	0.130 ng		100
75) alpha-Pinene	23.96	93	75028	1.461 ng		95
76) n-Propylbenzene	24.10	91	27979	0.221 ng	#	1
77) 3-Ethyltoluene	24.23	105	18619	0.176 ng		97
78) 4-Ethyltoluene	24.28	105	10060	0.102 ng		93
79) 1,3,5-Trimethylbenzene	24.37	105	166170	1.866 ng		100

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Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	4994	0.104	ng	# 82
81) 2-Ethyltoluene	24.61	105	56527	0.528	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	61690	0.681	ng	90
83) n-Decane	25.00	57	246115	4.935	ng	# 58
84) Benzyl Chloride	25.02	91	22680	0.373	ng	# 1
85) 1,3-Dichlorobenzene	25.09	146	1039	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	49495	0.901	ng	99
87) sec-Butylbenzene	25.21	105	16607	0.143	ng	# 81
88) p-Isopropyltoluene	25.41	119	80127	0.840	ng	# 1
89) 1,2,3-Trimethylbenzene	25.41	105	694553	7.831	ng	87
90) 1,2-Dichlorobenzene	25.58	146	19046	0.354	ng	99
91) d-Limonene	25.59	68	175238	4.853	ng	# 51
92) 1,2-Dibromo-3-Chloropr...	25.87	157	56	N.D.	✓	
93) n-Undecane	26.48	57	848861	16.264	ng	# 20
94) 1,2,4-Trichlorobenzene	27.64	180	28377	0.721	ng	# 16
95) Naphthalene	27.78	128	90935	0.761	ng	# 24
96) n-Dodecane	27.75	57	1339043	25.797	ng	# 66
97) Hexachloro-1,3-butadiene	28.19	225	359	N.D.	✓	

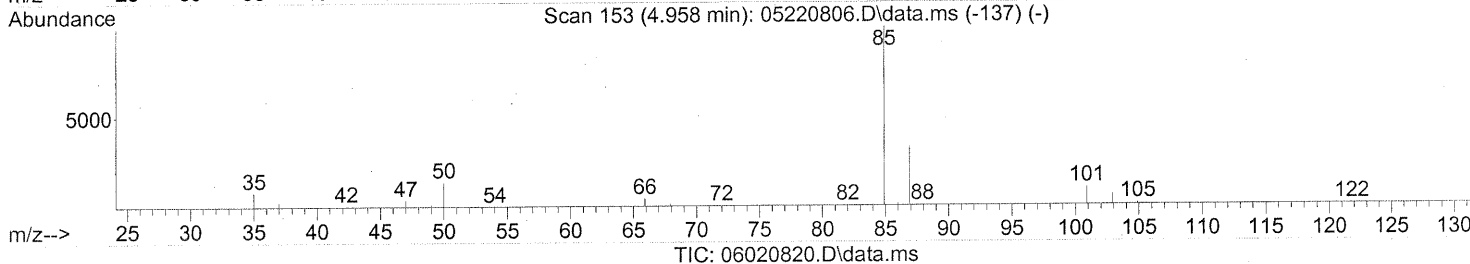
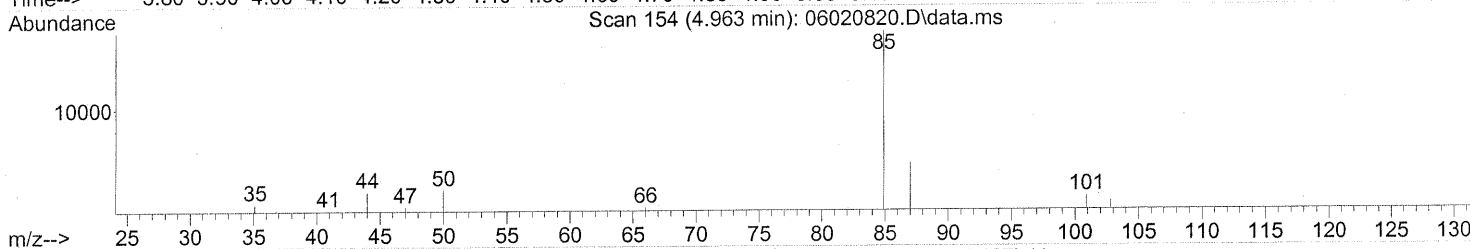
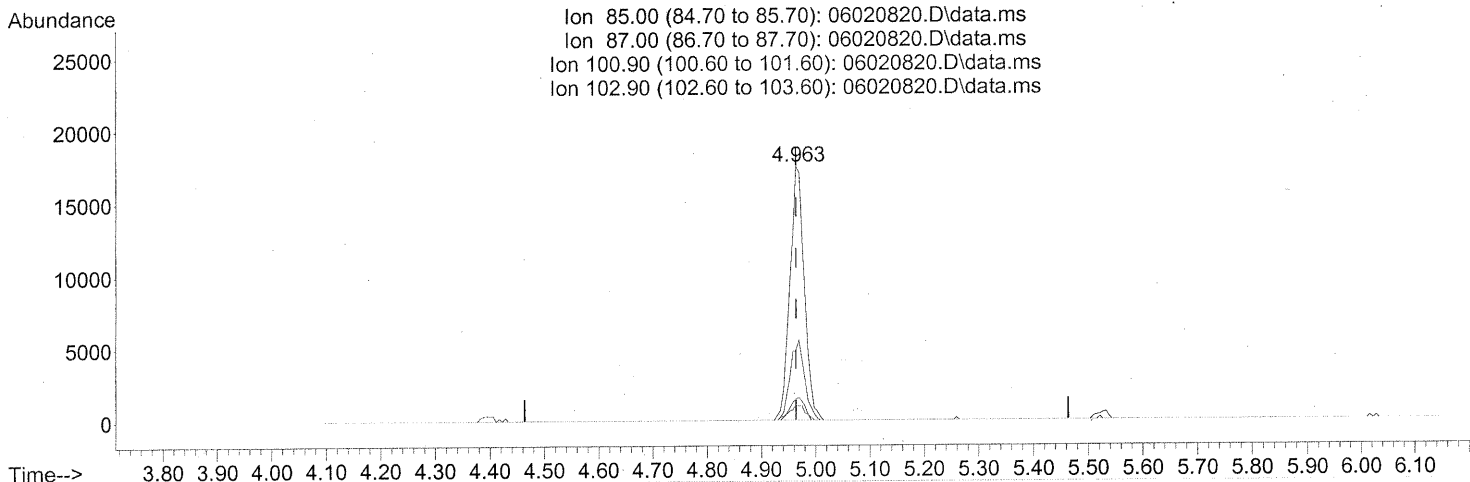
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Podolski*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020820.D  
Acq On : 2 Jun 2008 11:08 pm  
Operator : RTB  
Sample : P0801548-015 (500mL)  
Misc : ENSR SG66B-05 (-2.8, 3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 0.61ng

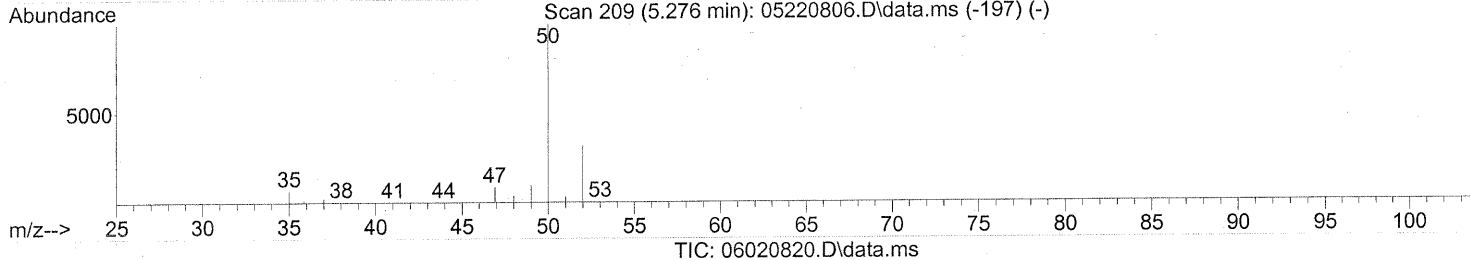
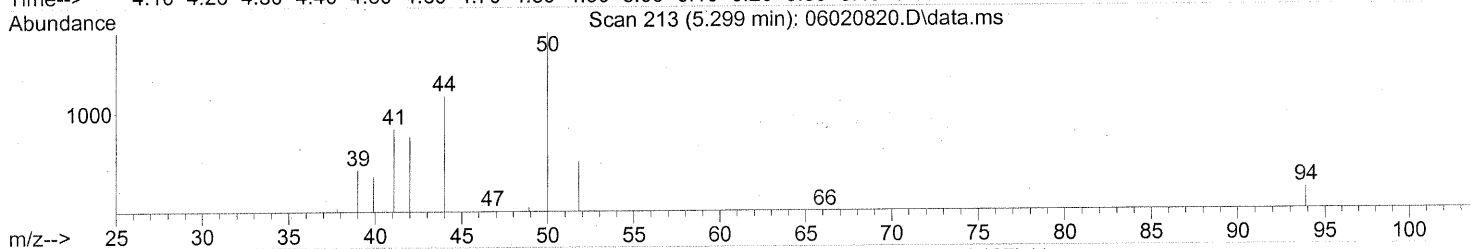
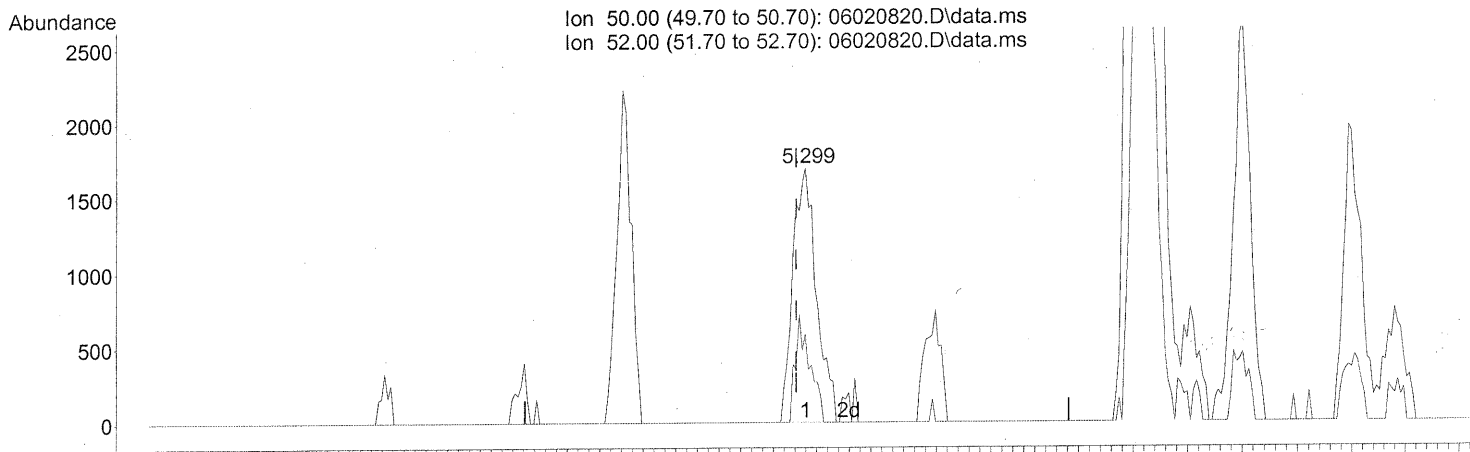
response 32311

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.80
100.90	9.30	9.22
102.90	6.00	6.07

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
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 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(4) Chloromethane (T)

5.299min (+0.017) 0.15ng

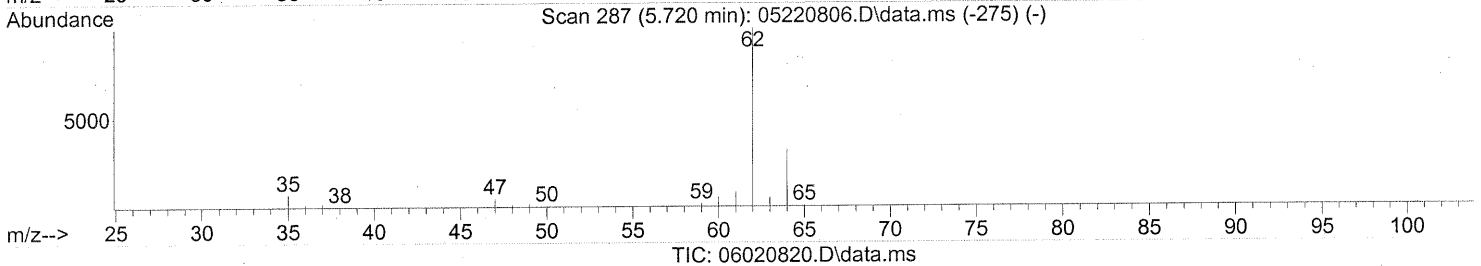
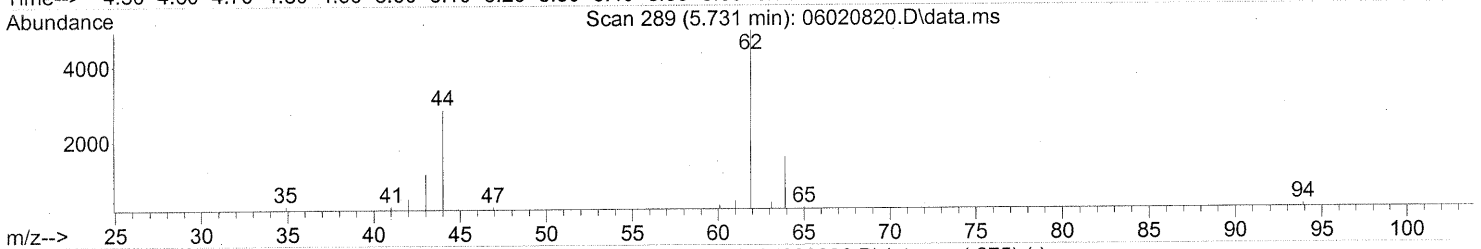
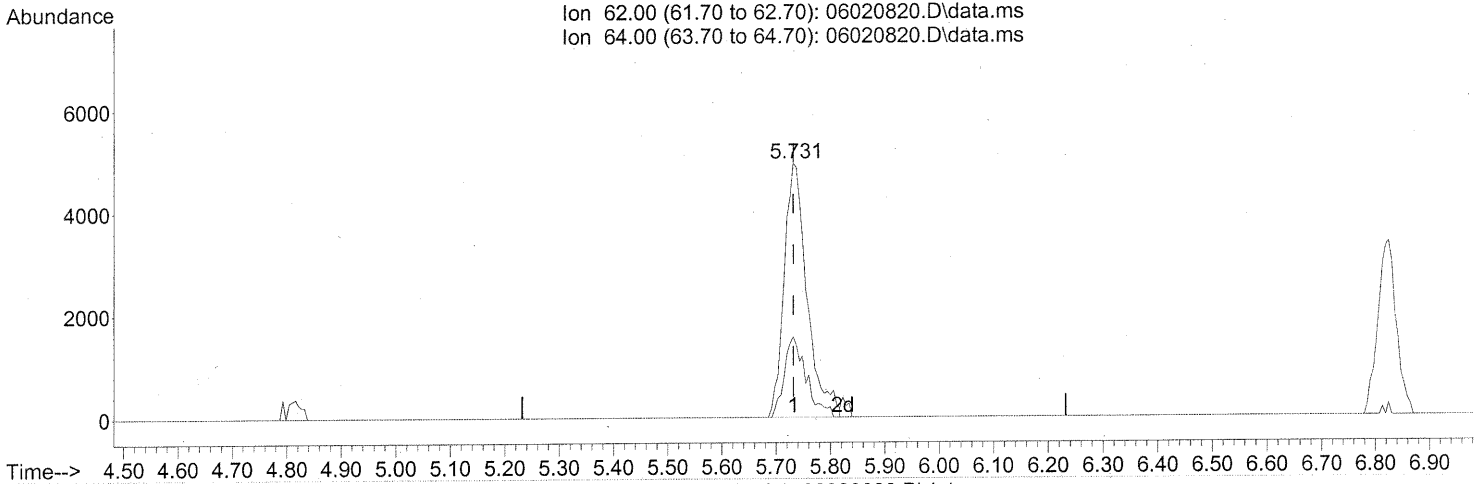
response 5125

Ion	Exp%	Act%
50.00	100	100
52.00	33.70	26.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
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 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(6) Vinyl Chloride (T)

5.731min (-0.000) 0.42ng

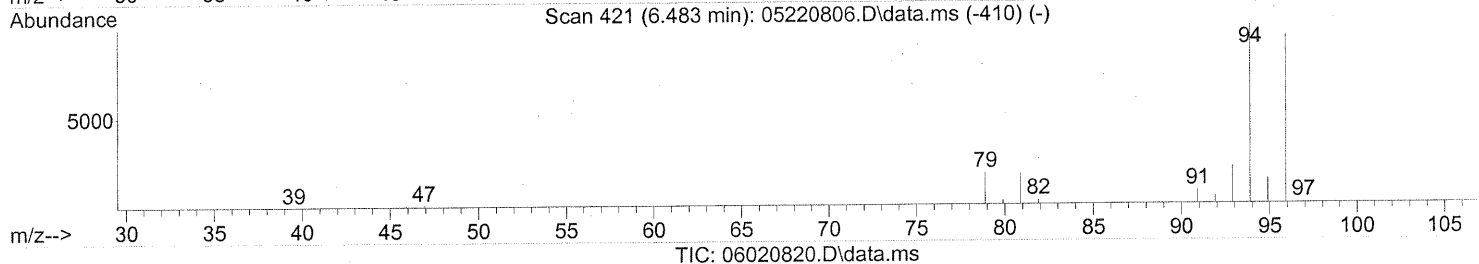
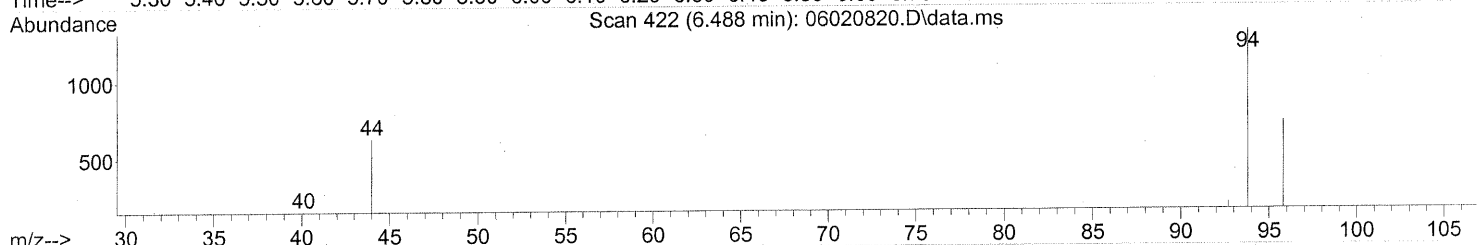
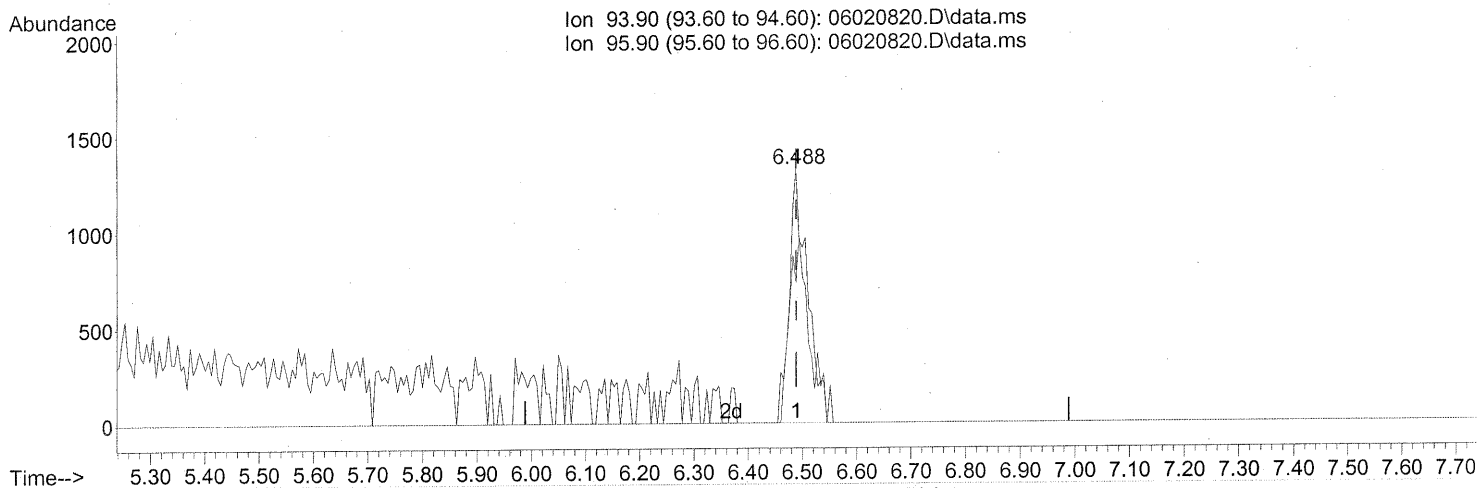
response 14442

Ion	Exp%	Act%
62.00	100	100
64.00	29.30	30.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020820.D  
Acq On : 2 Jun 2008 11:08 pm  
Operator : RTB  
Sample : P0801548-015 (500mL)  
Misc : ENSR SG66B-05 (-2.8, 3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration

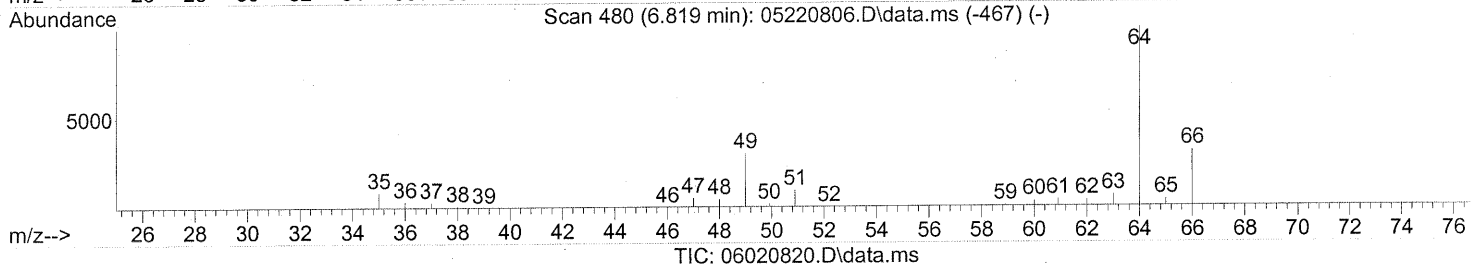
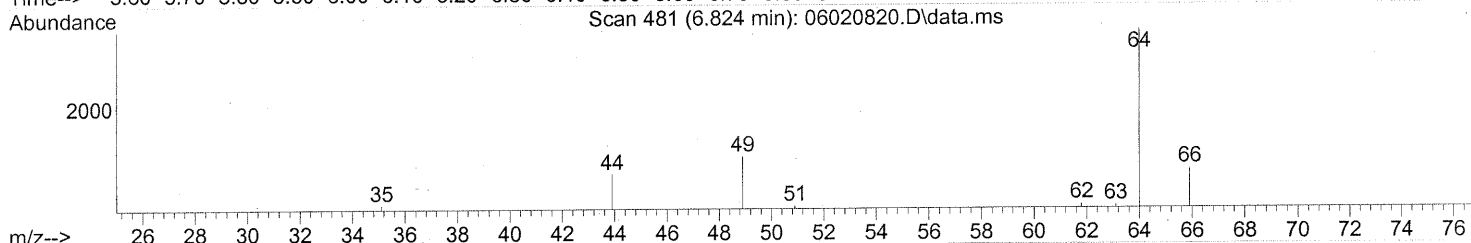
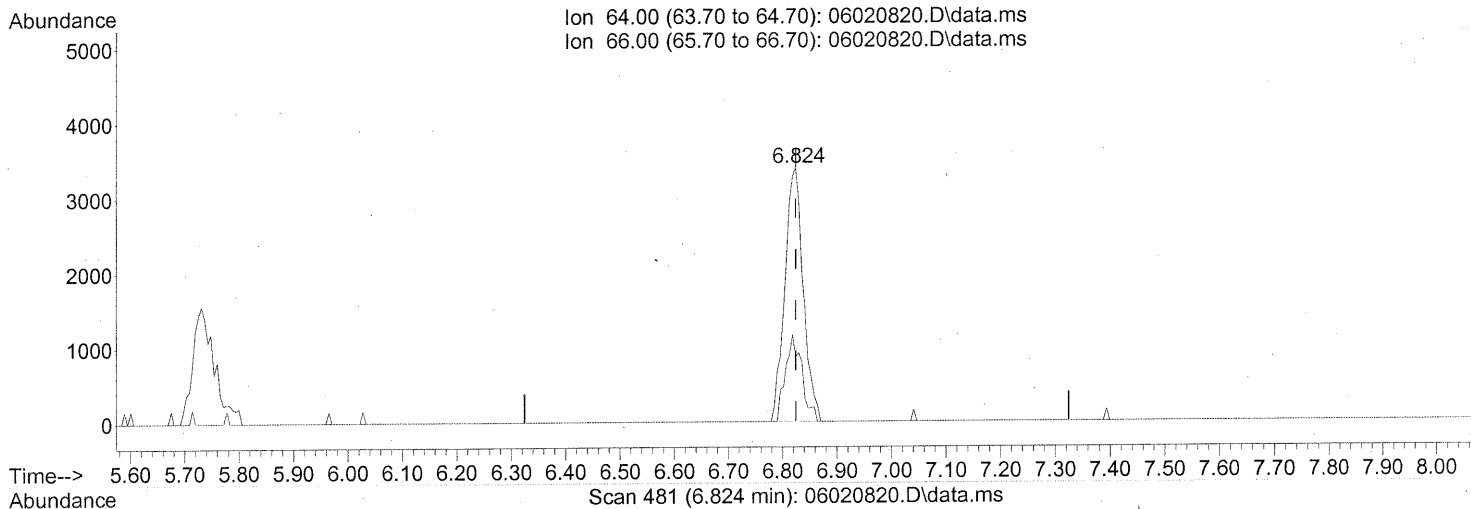


(8) Bromomethane (T)  
6.488min (-0.000) 0.16ng  
response 3144  
Ion Exp% Act%  
93.90 100 100  
95.90 92.30 76.78  
0.00 0.00 0.00  
0.00 0.00 0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)

6.824min (-0.000) 0.49ng

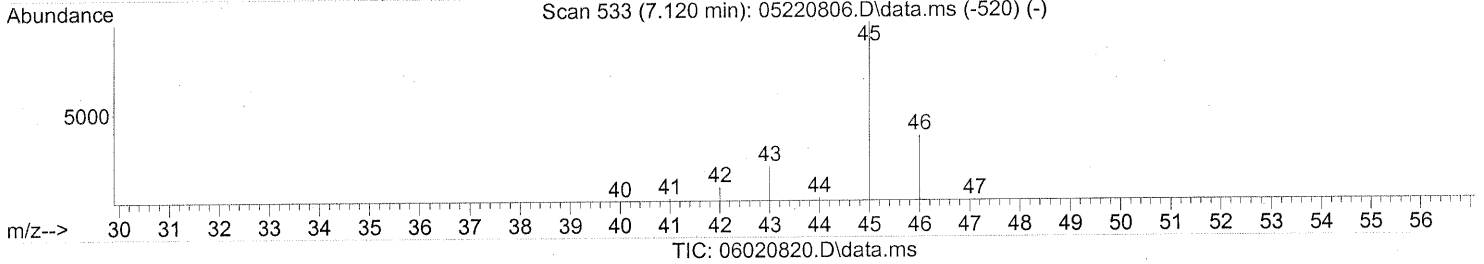
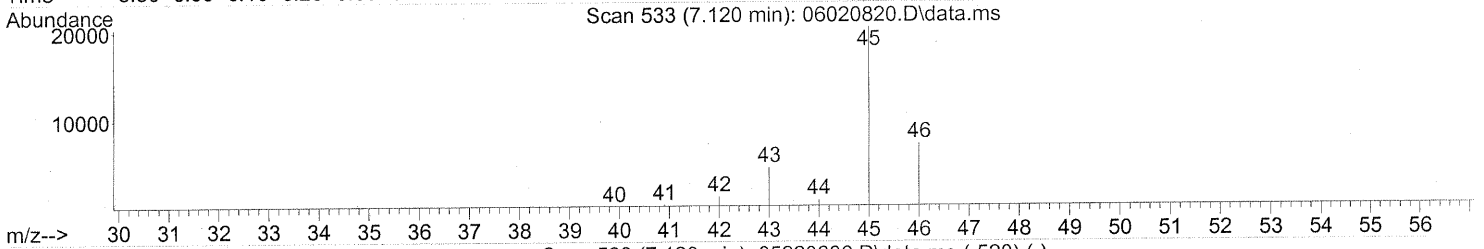
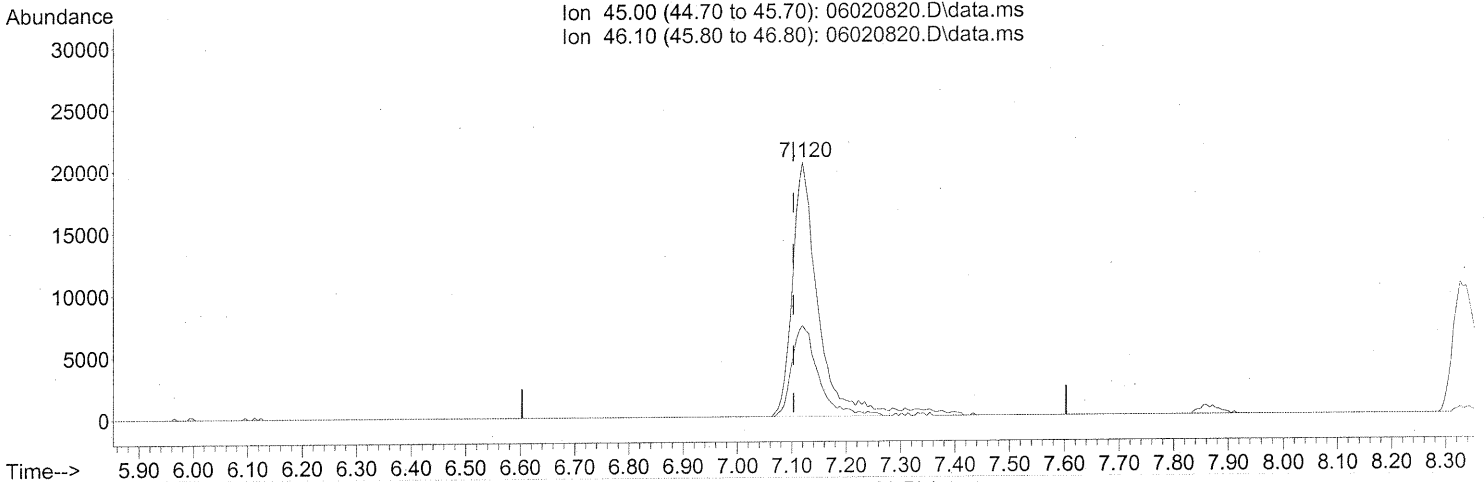
response 8003

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	30.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:23:35 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.120min (+0.017) 3.45ng

response 65839

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.17
0.00	0.00	0.00
0.00	0.00	0.00

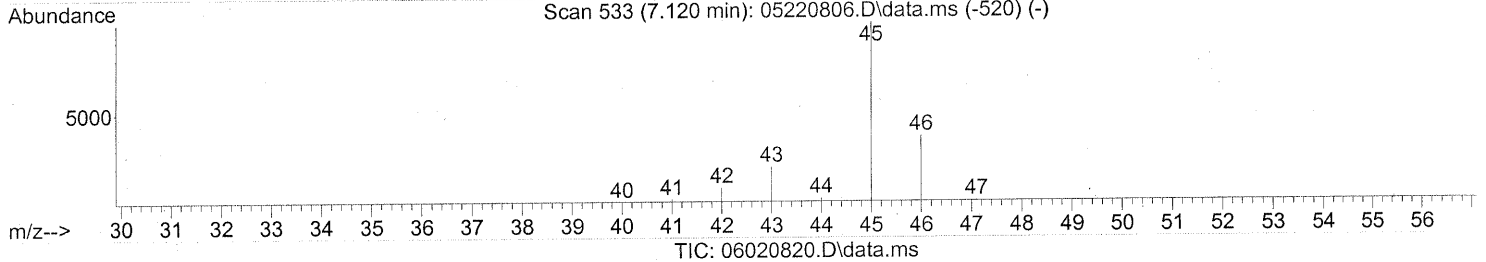
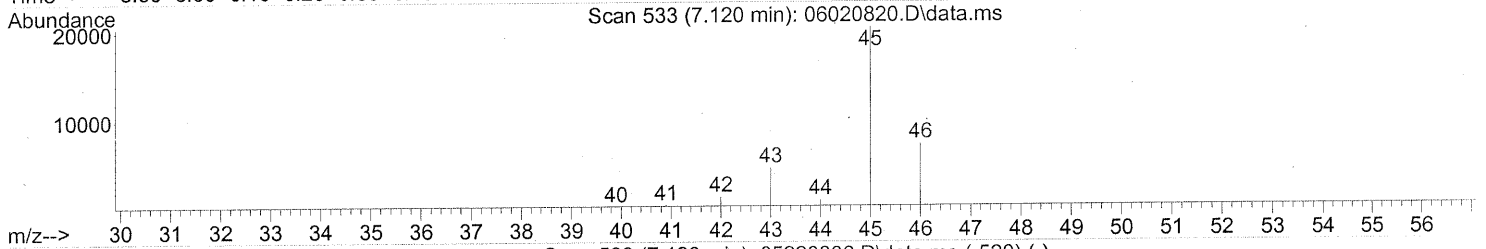
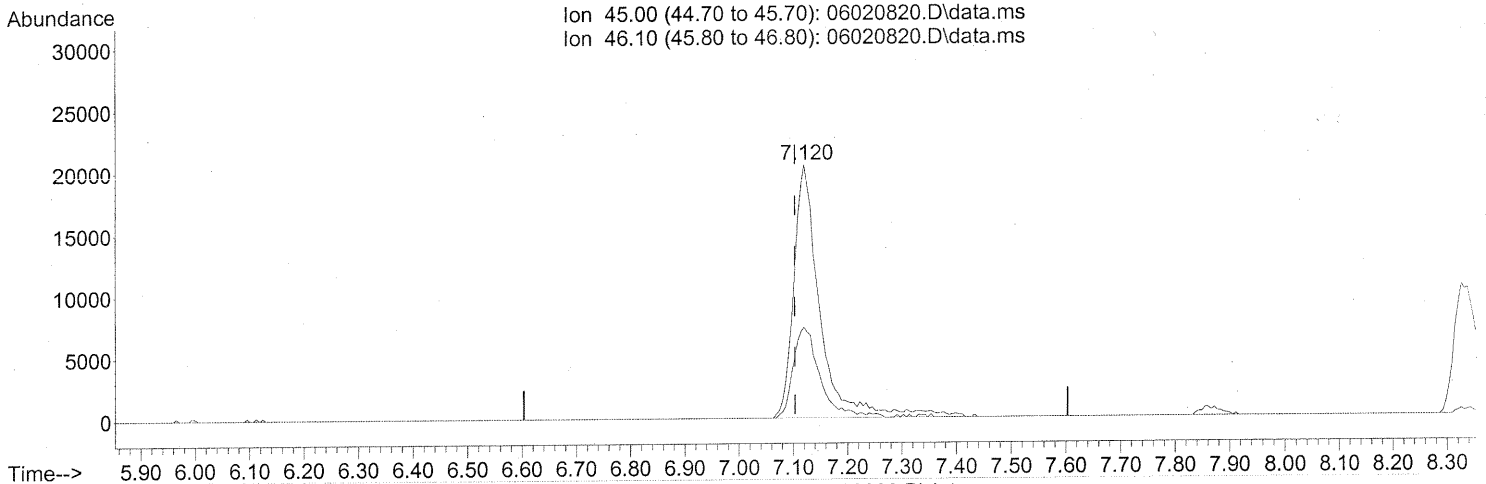
TAILING



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:23:35 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.120min (+0.017) 3.61ng m  
 response 68923

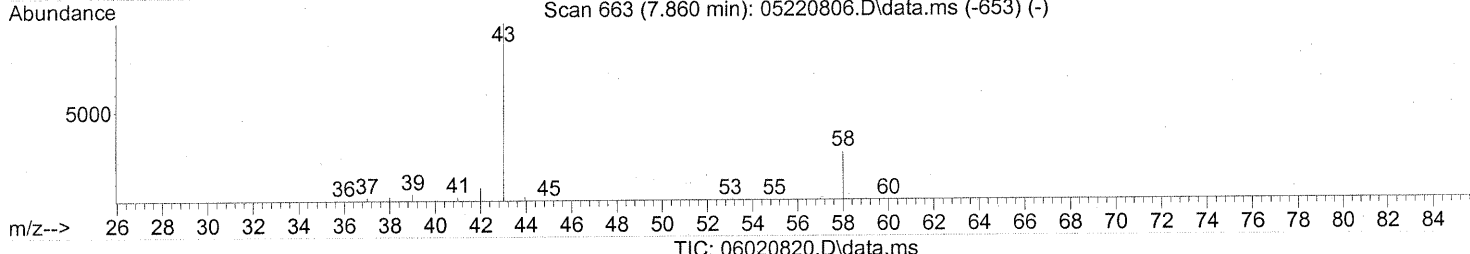
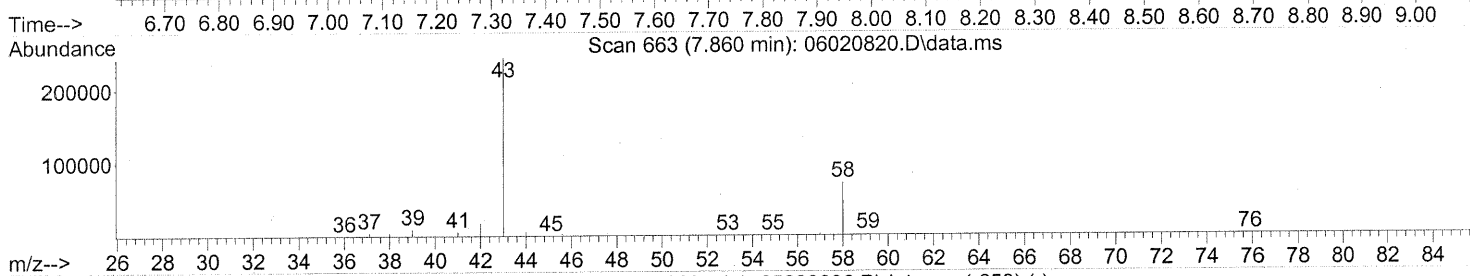
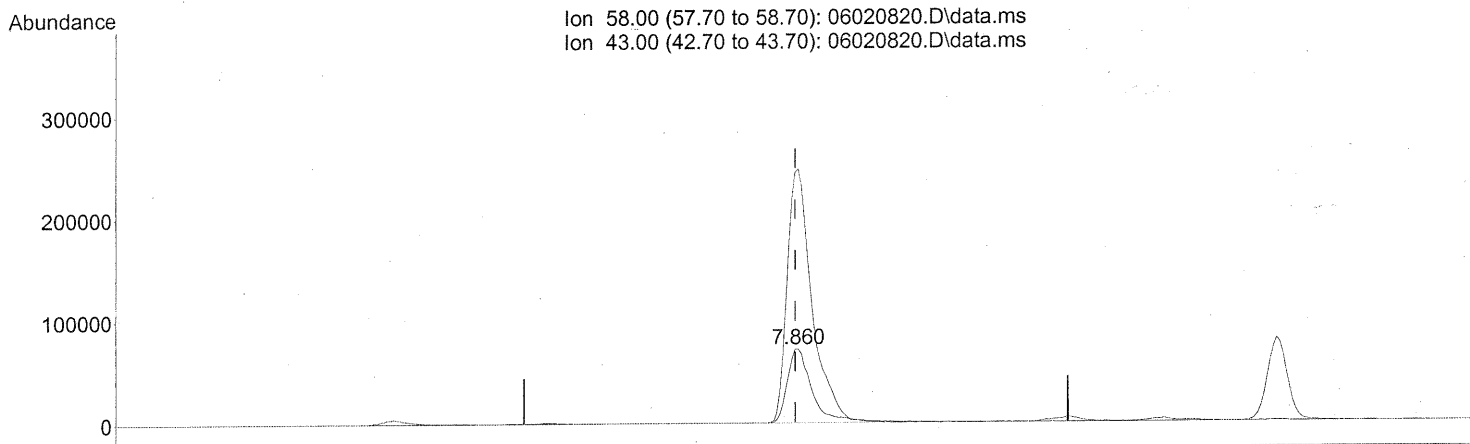
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	35.50
0.00	0.00	0.00
0.00	0.00	0.00

*ADDED TAILING*  
*6/6/08*  
*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



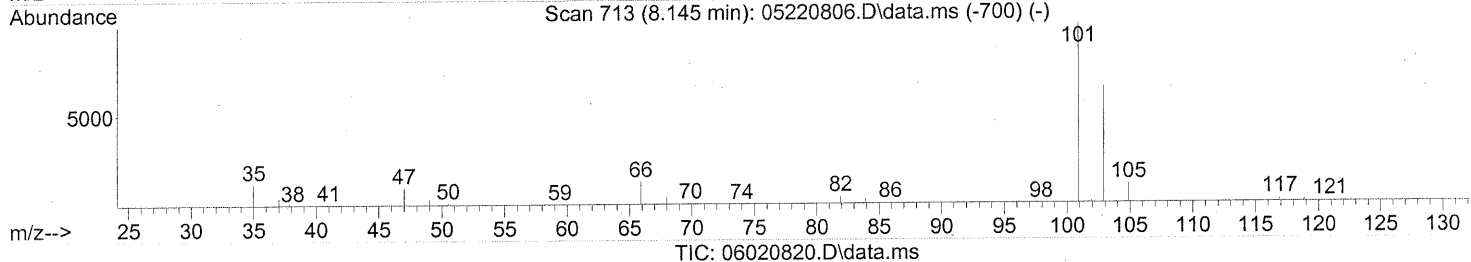
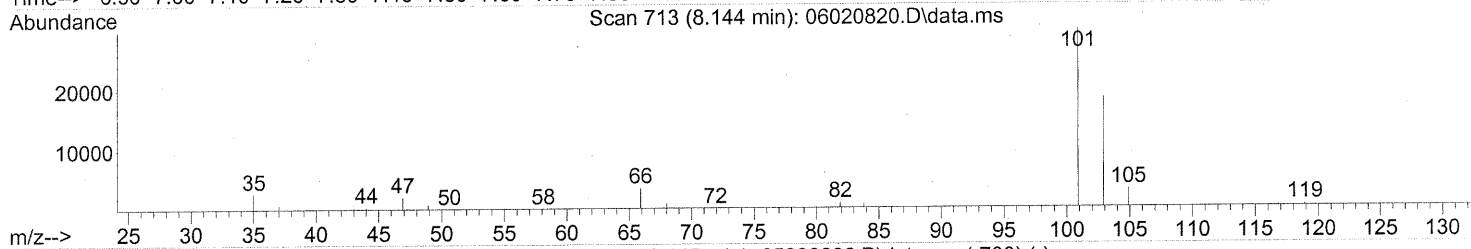
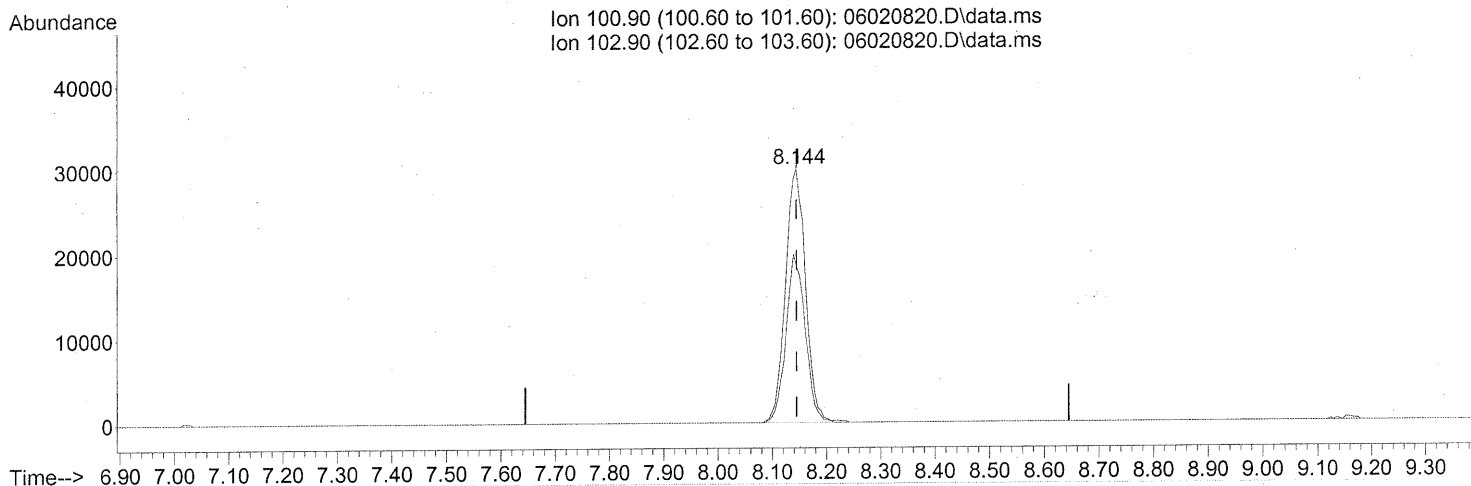
(13) Acetone (T)  
 7.860min (-0.000) 11.53ng  
 response 225161

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	352.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 1.70ng

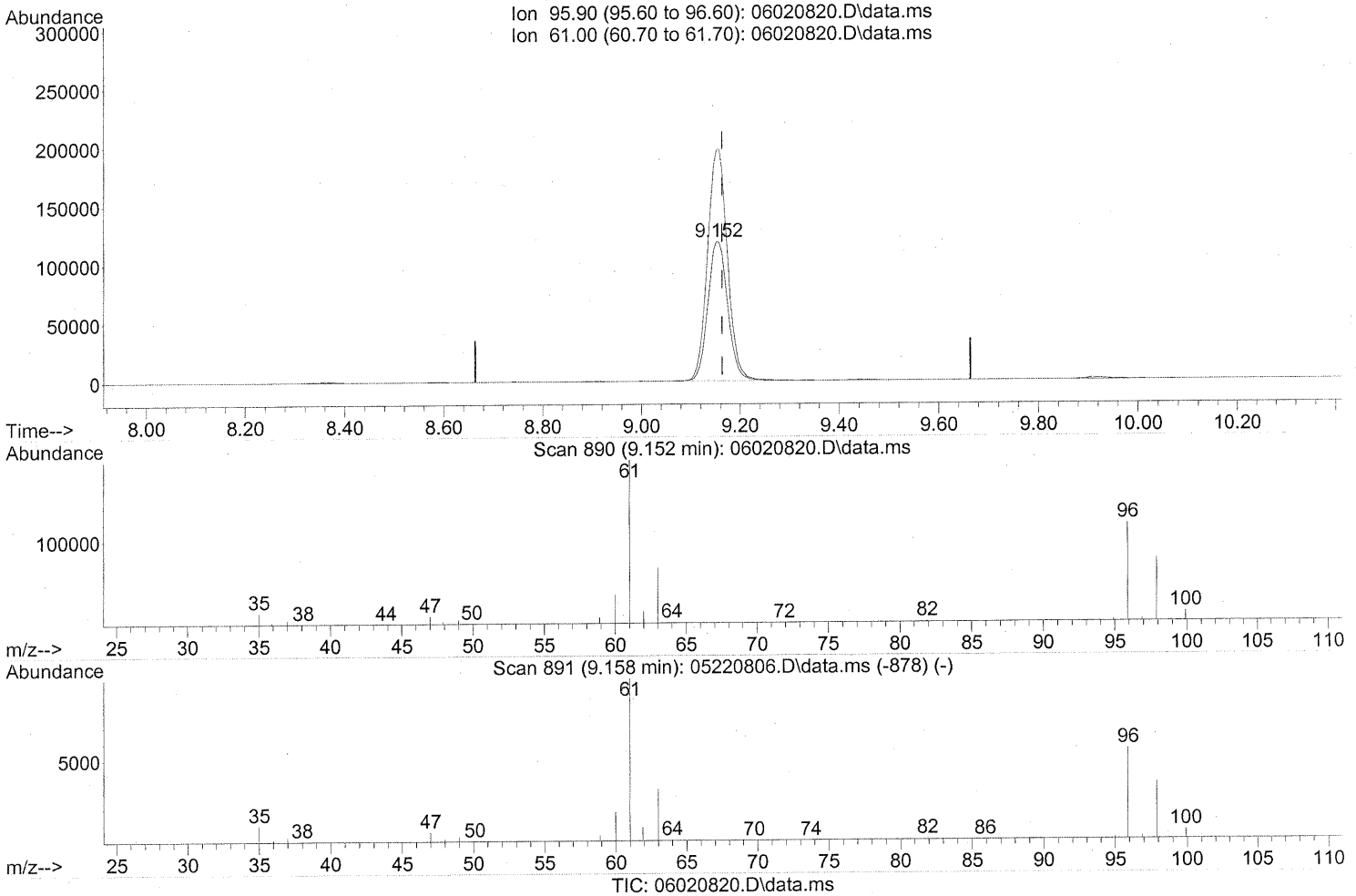
response 77116

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	63.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.152min (-0.012) 16.69ng

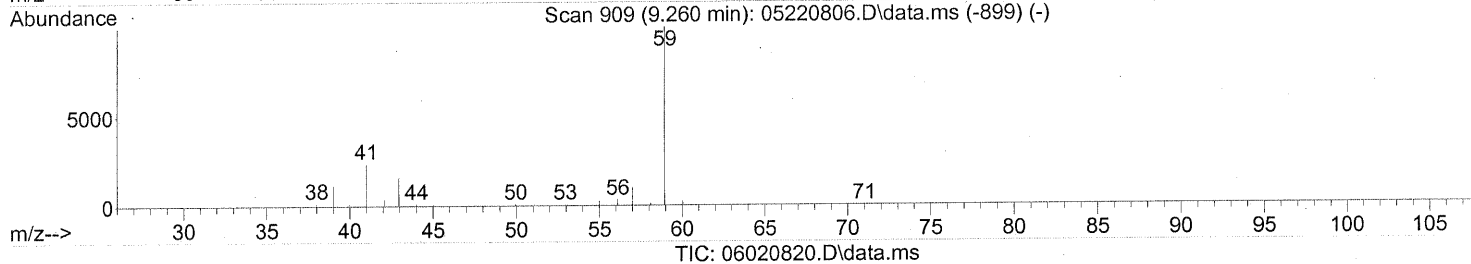
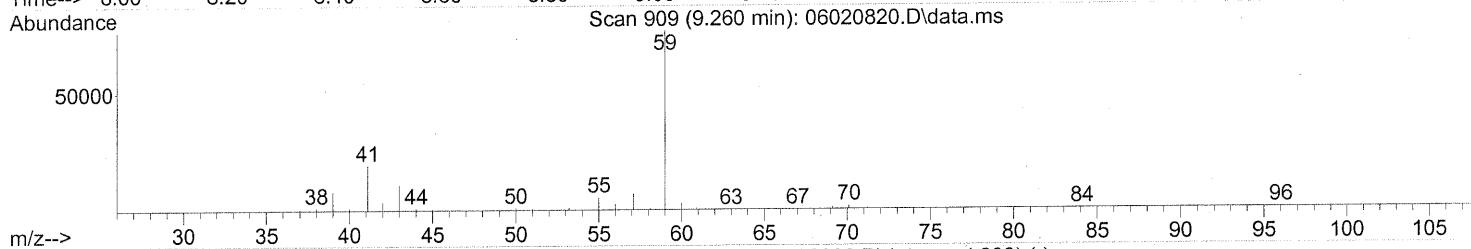
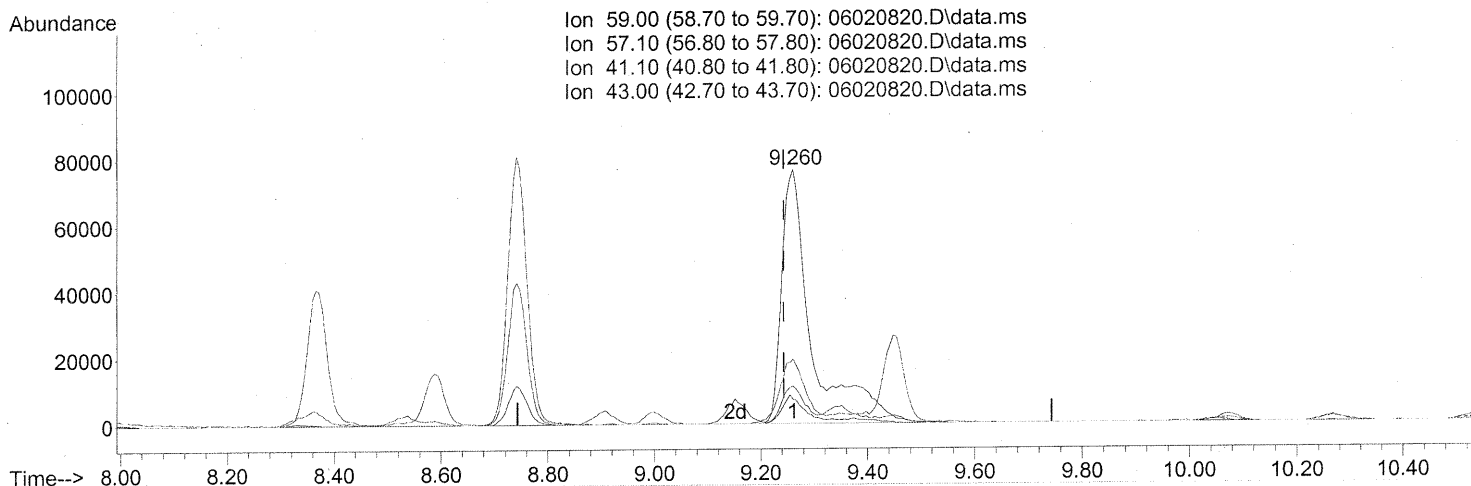
response 332689

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	167.13#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



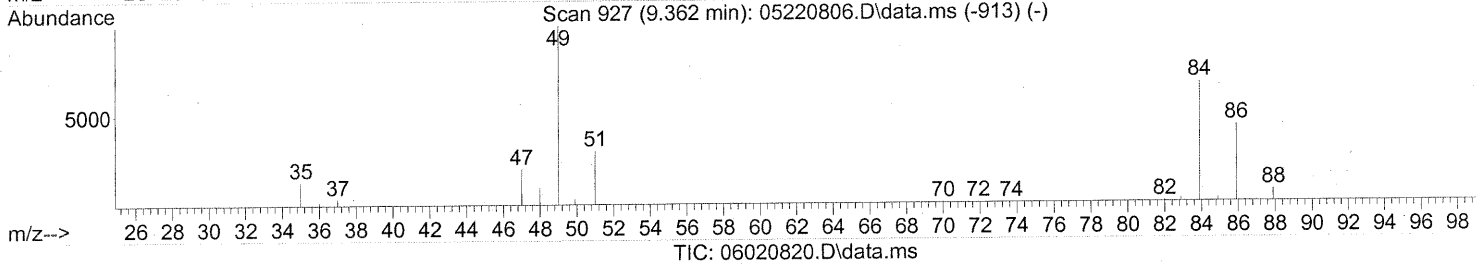
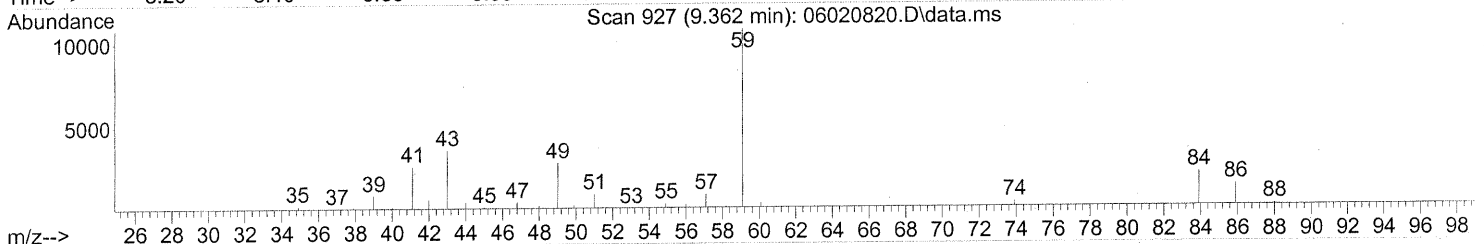
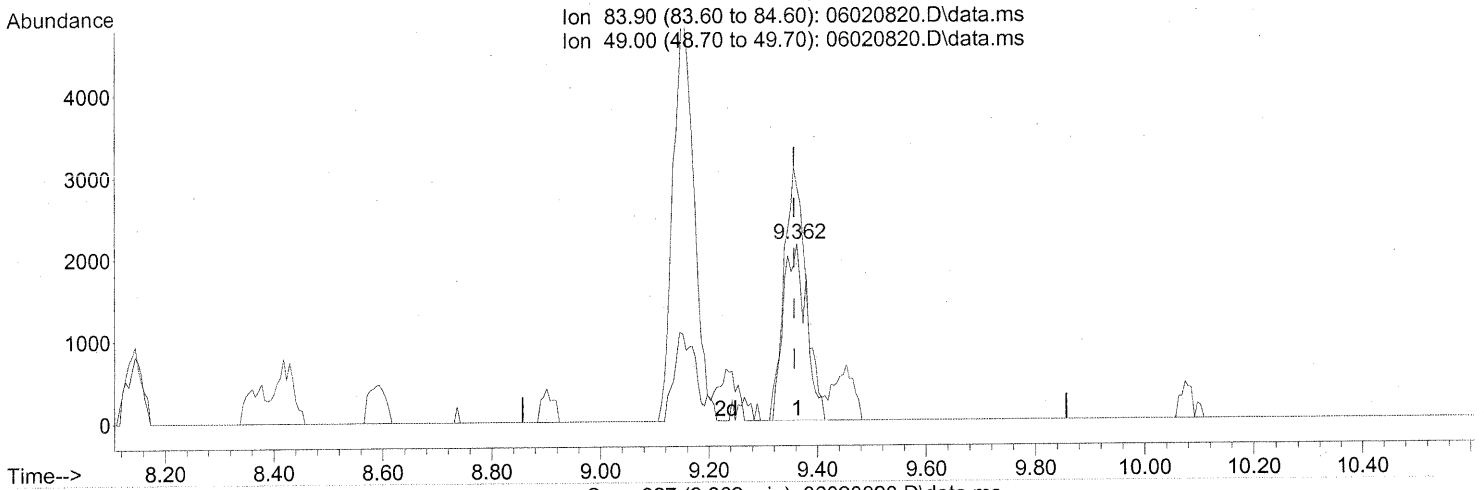
(18) tert-Butanol (T)  
 9.260min (+0.017) 5.61ng  
 response 297177

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.85
41.10	20.10	25.92
43.00	12.30	11.41

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.362min (+0.006) 0.29ng

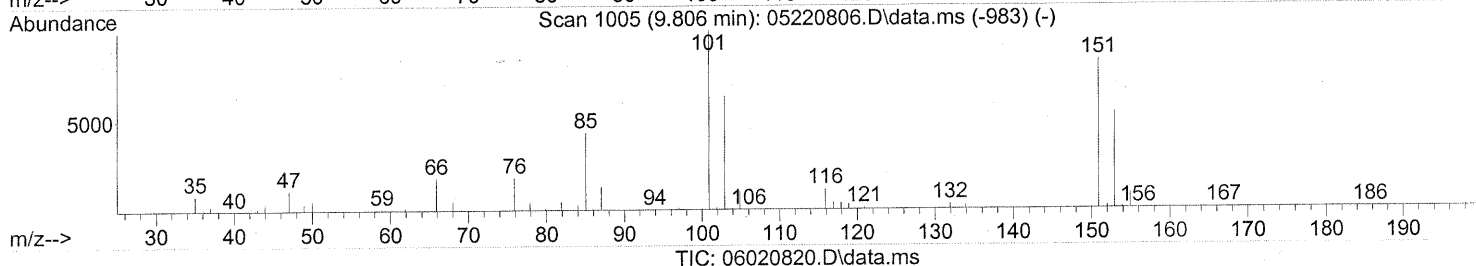
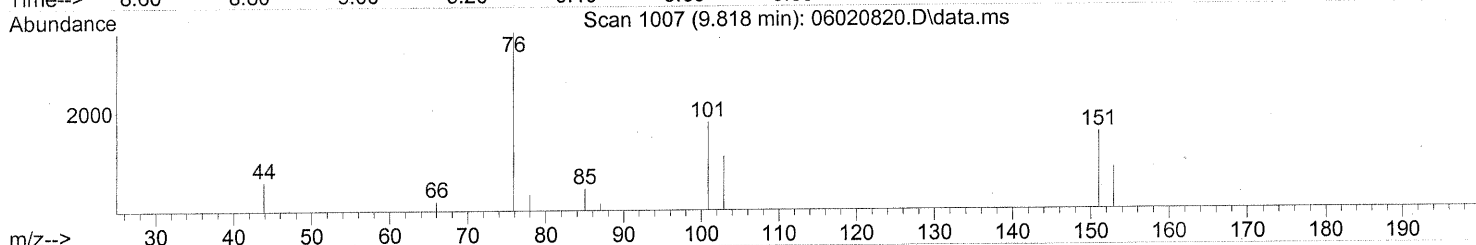
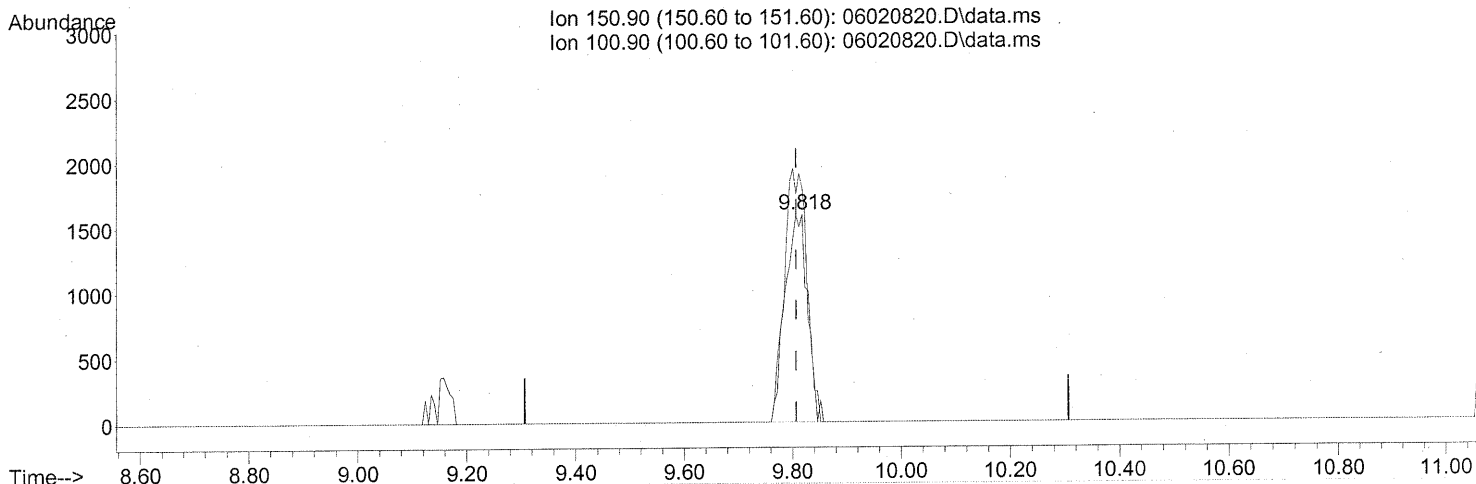
response 6329

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	139.74#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.22ng

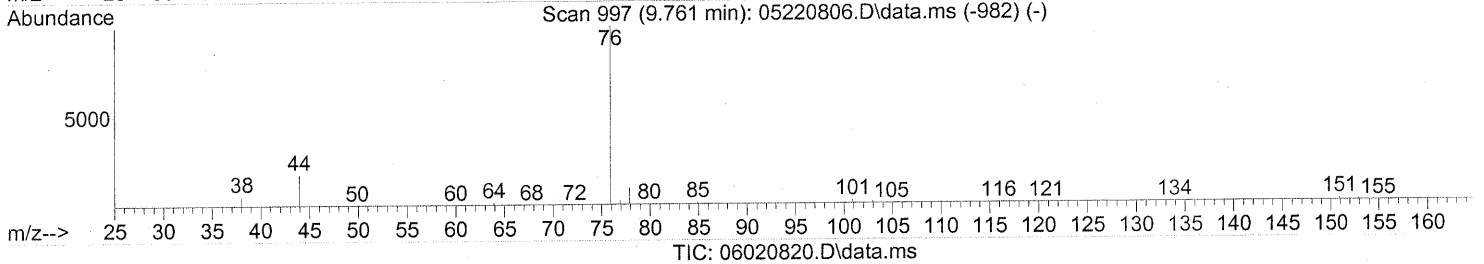
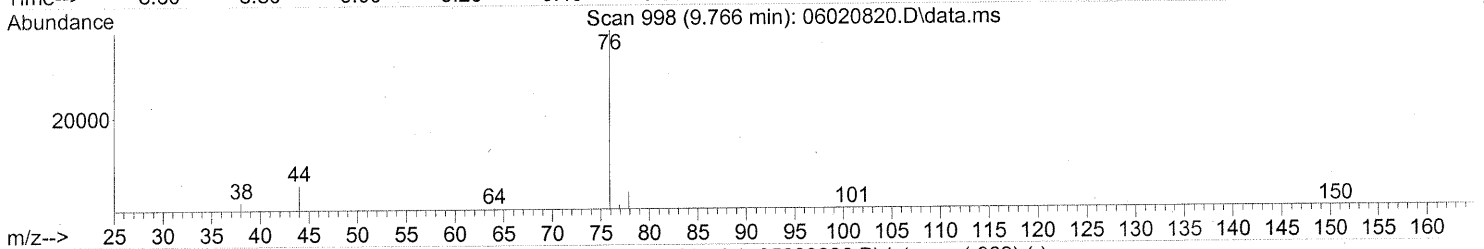
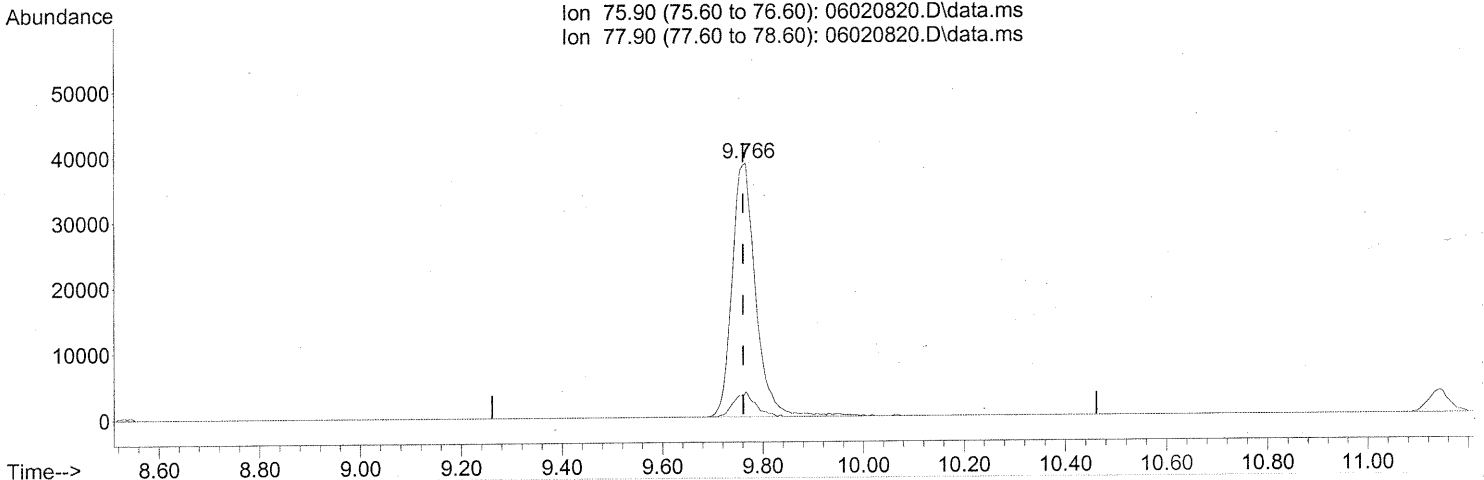
response 4593

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.49
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.766min (+0.006) 1.49ng

response 123793

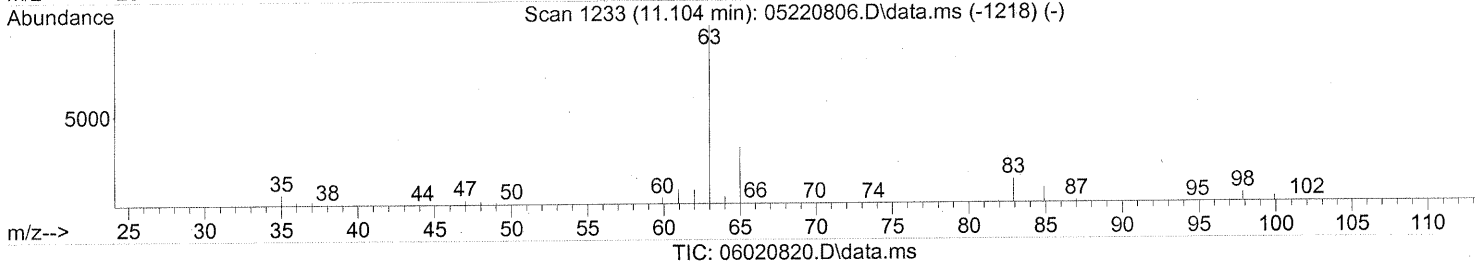
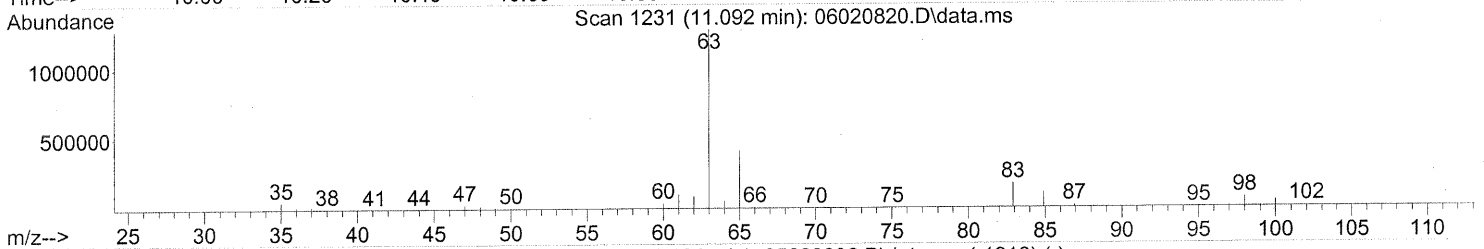
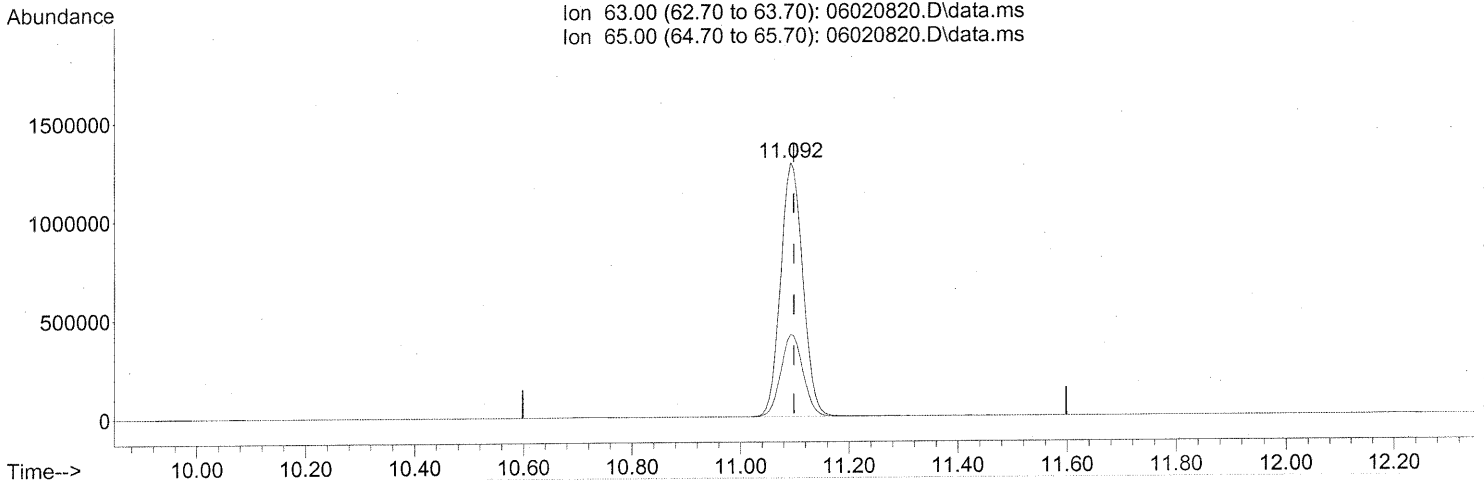
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	8.86
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.092min (-0.006) 96.35ng

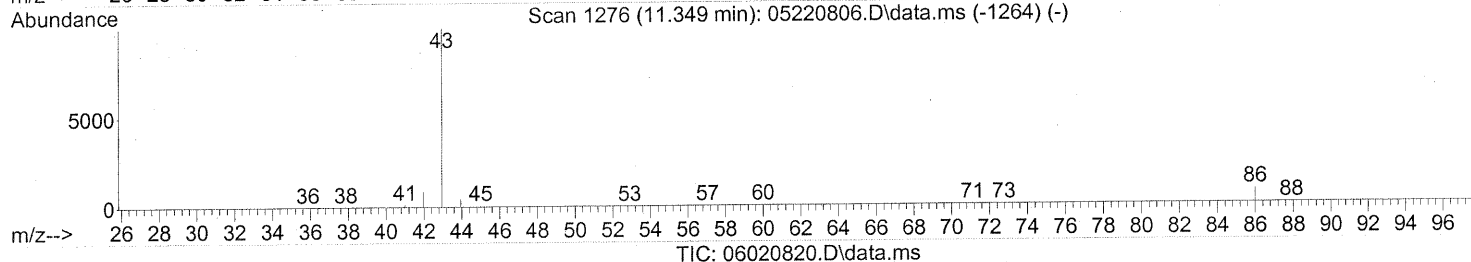
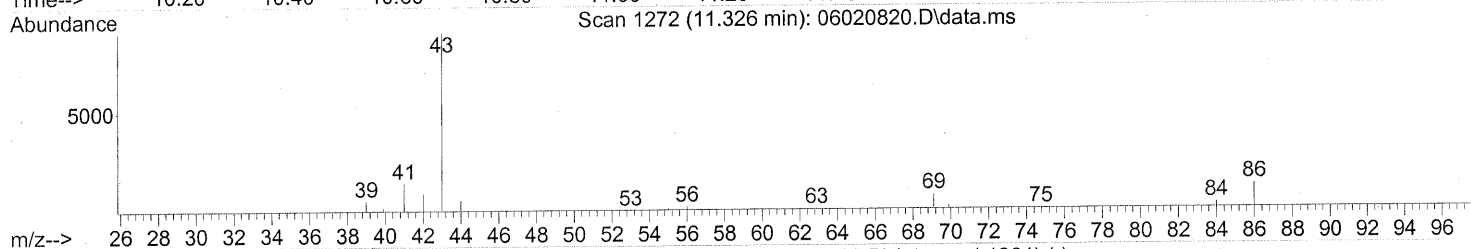
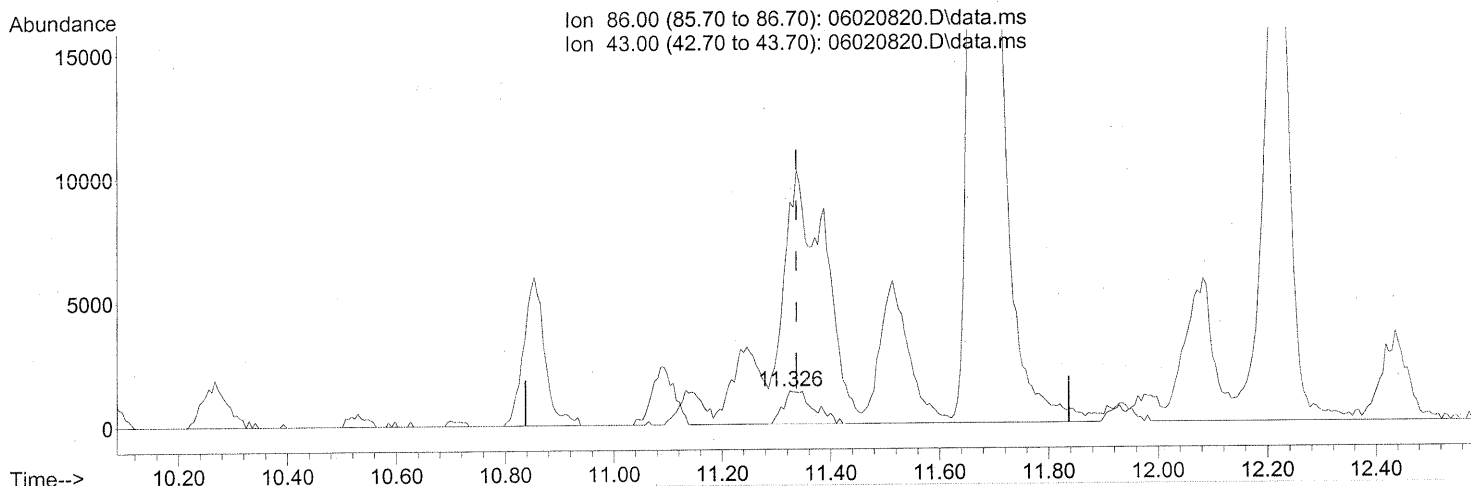
response 3649815

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	32.20
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



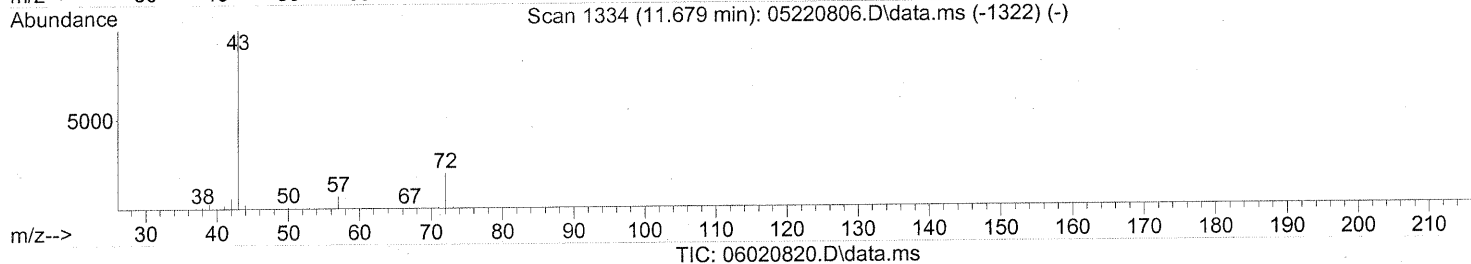
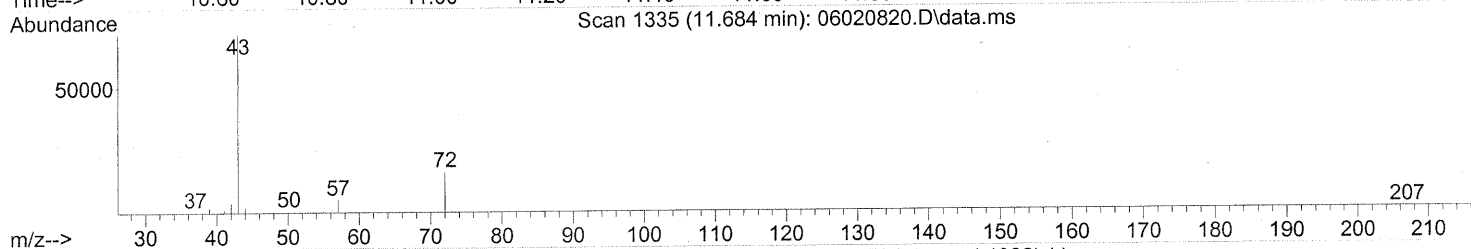
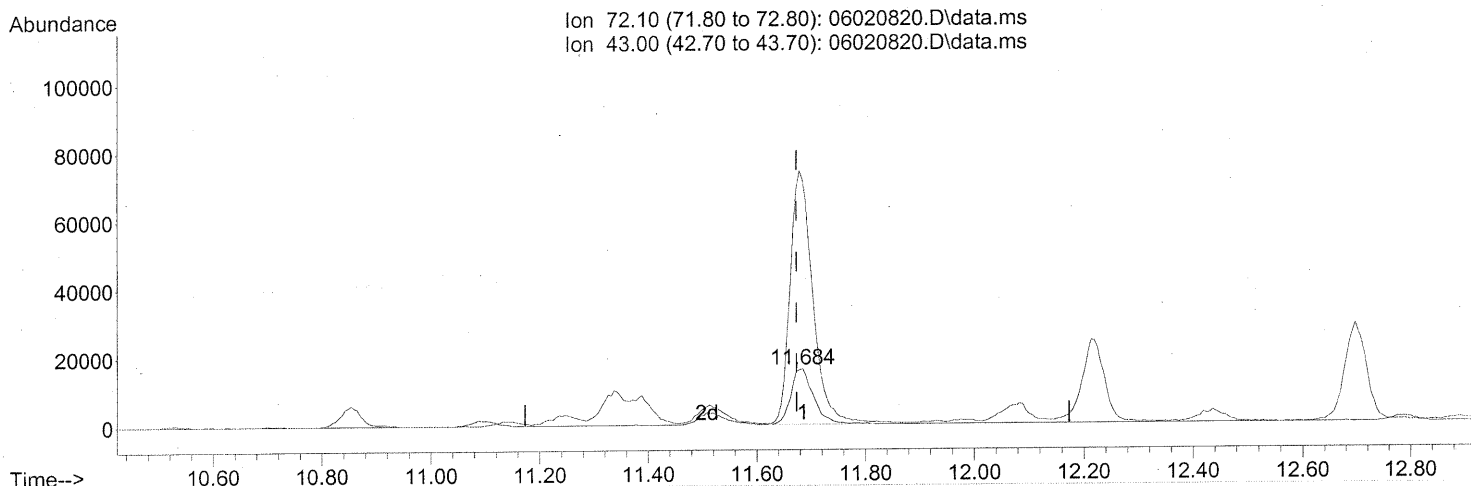
(26) Vinyl Acetate (T)  
 11.326min (-0.011) 1.41ng  
 response 5083

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	994.71#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



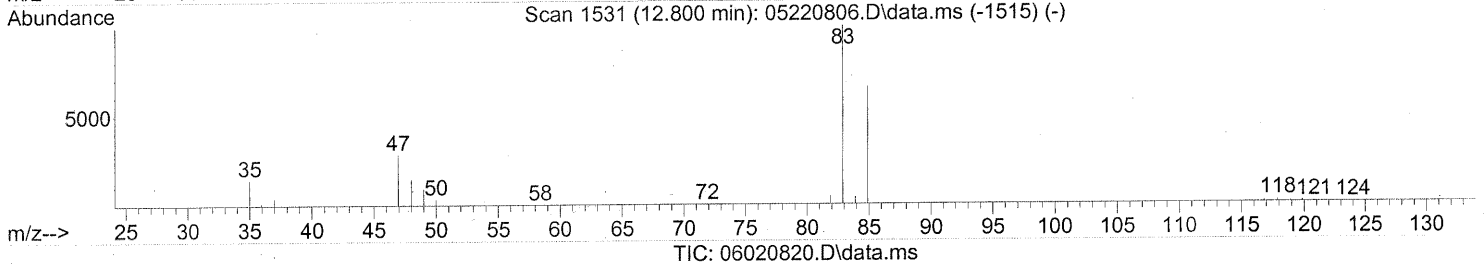
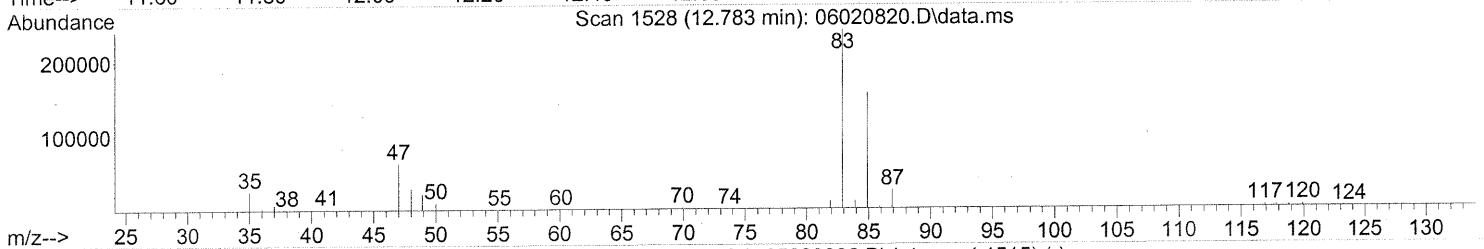
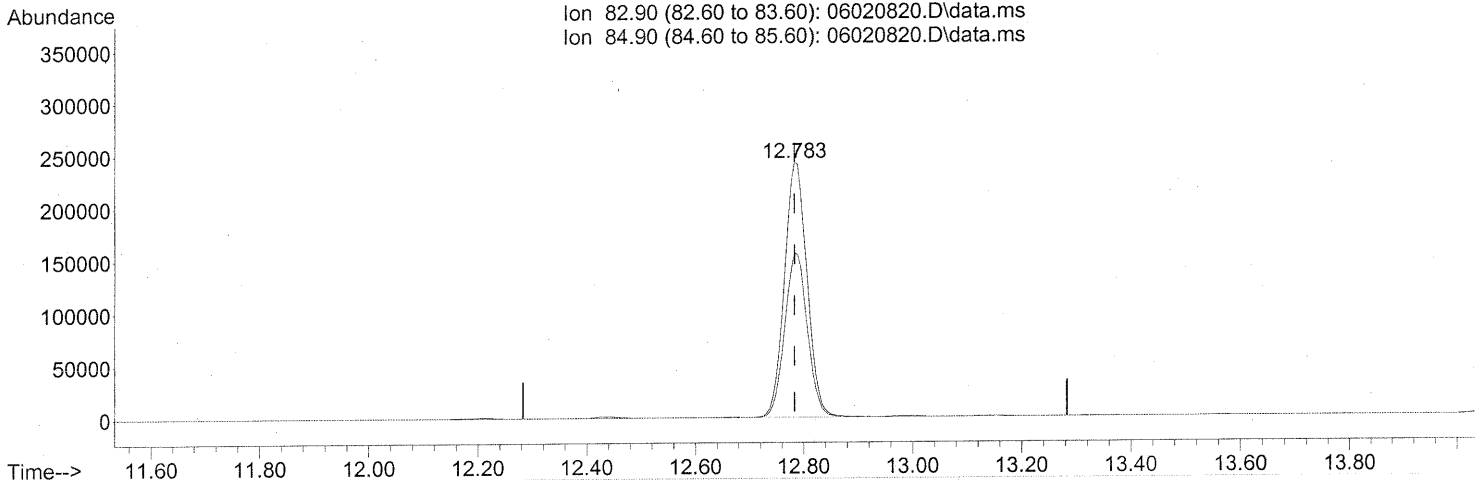
(27) 2-Butanone (T)  
 11.684min (+0.011) 3.29ng  
 response 46871

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	457.20#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



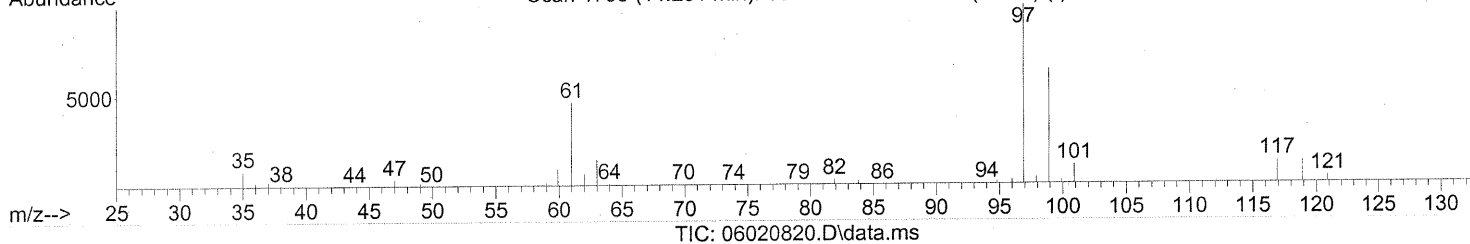
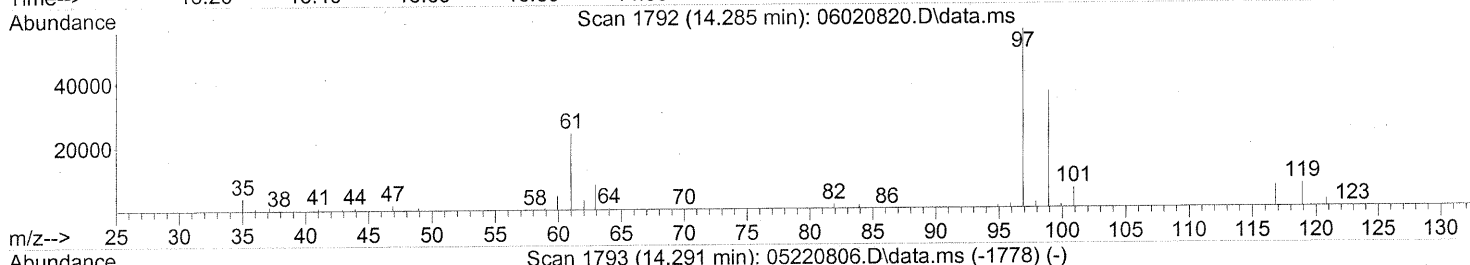
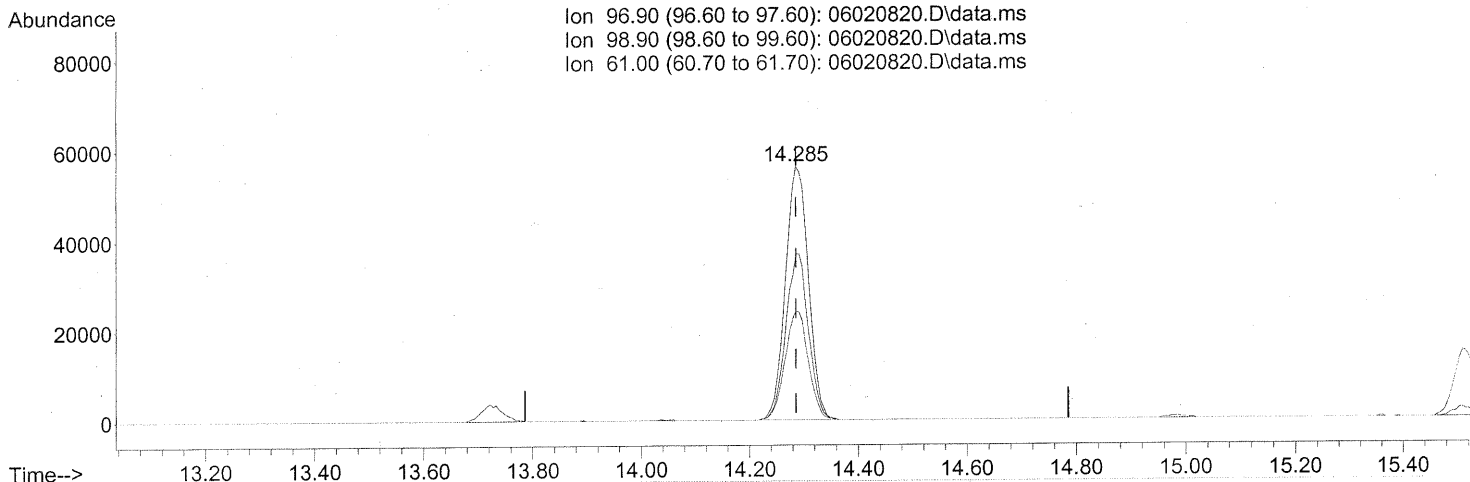
(32) Chloroform (T)  
 12.783min (-0.000) 21.22ng  
 response 702291

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.285min (-0.000) 4.66ng

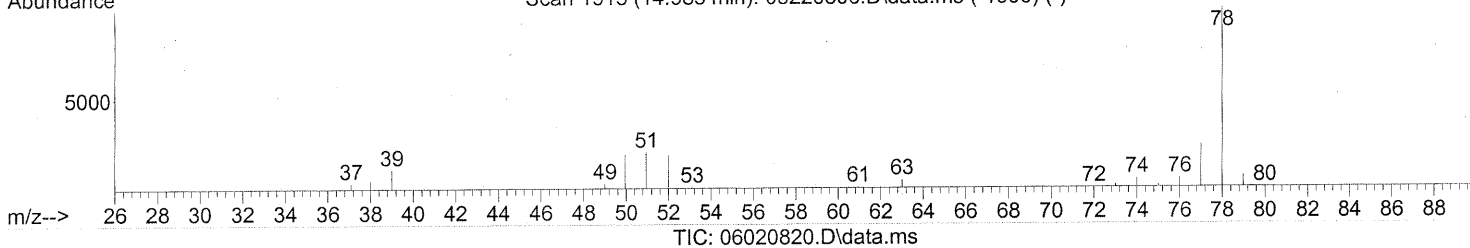
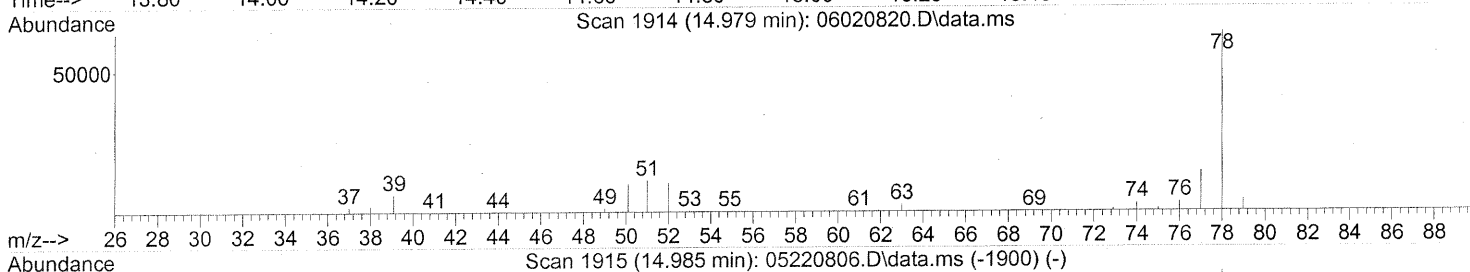
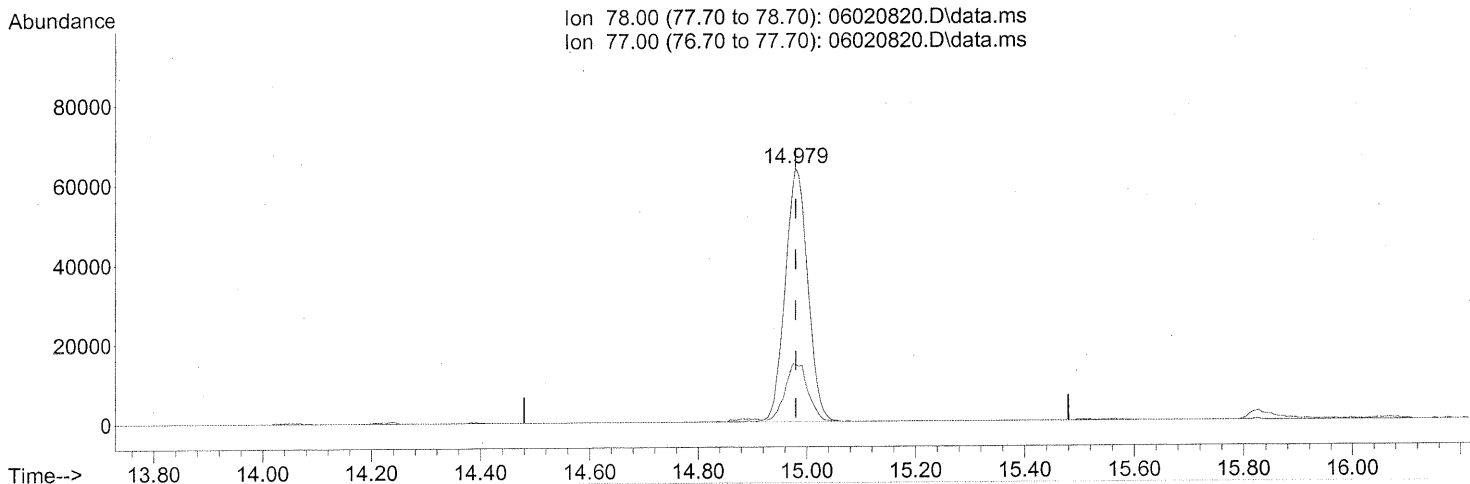
response 165819

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	64.51
61.00	50.50	43.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.979min (-0.000) 2.24ng

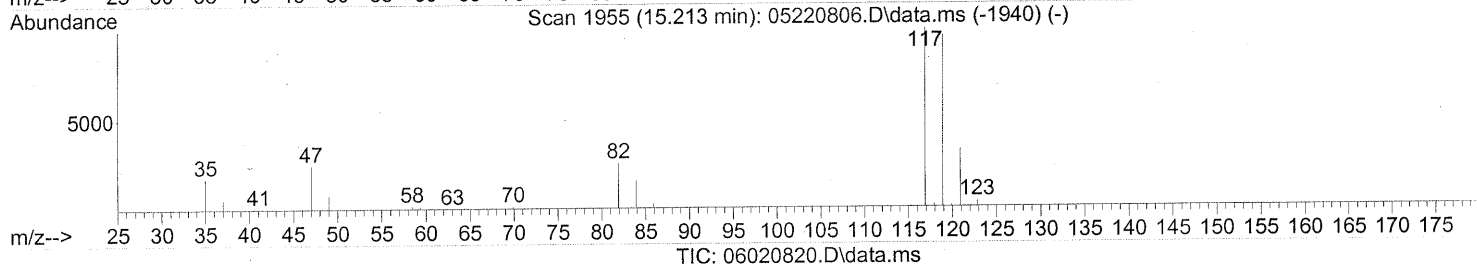
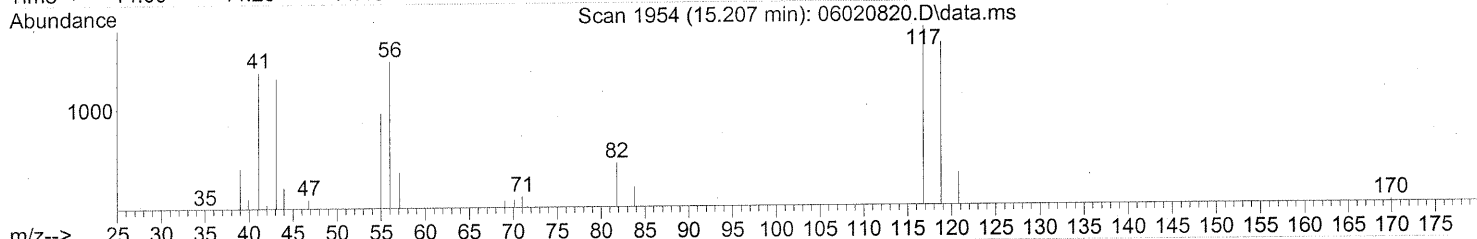
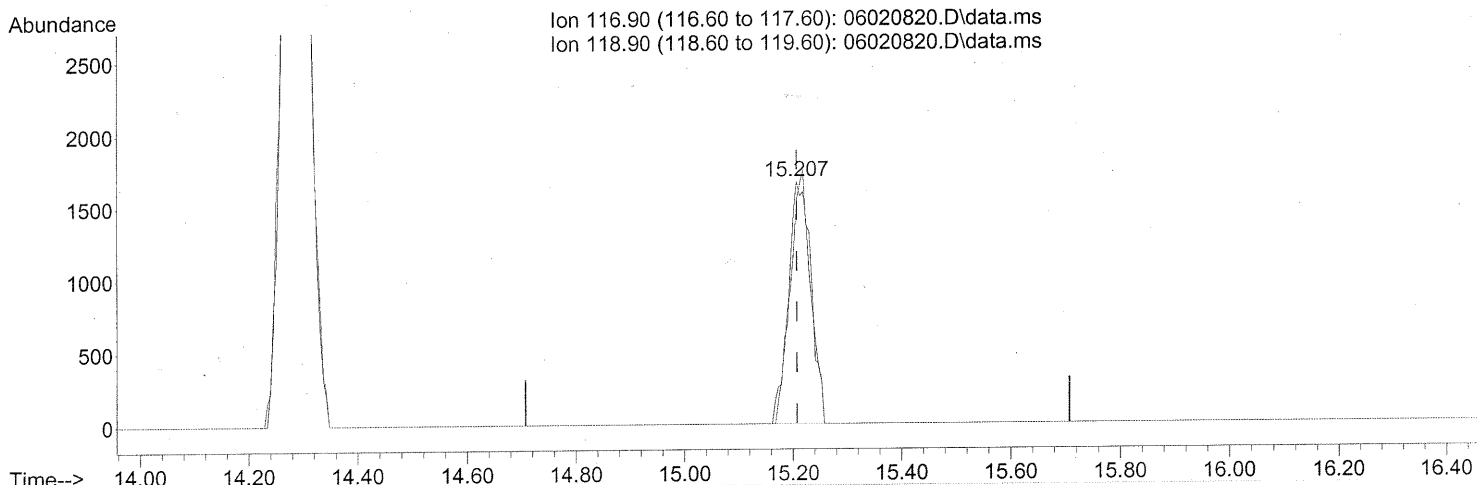
response 183003

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.15ng

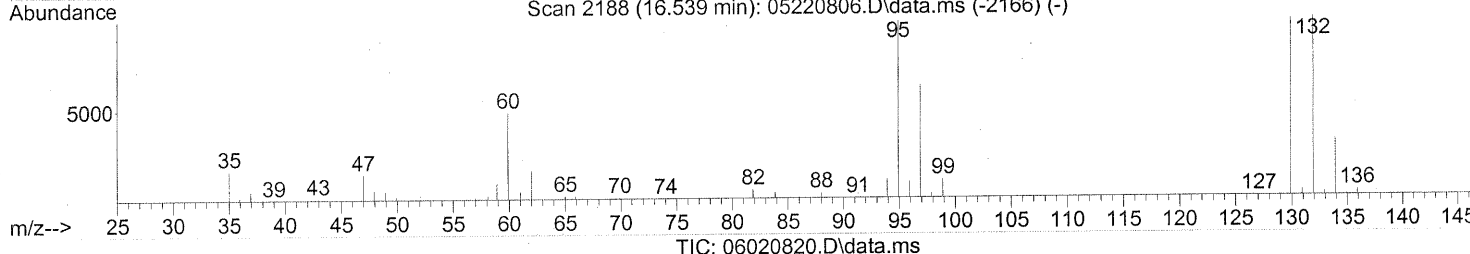
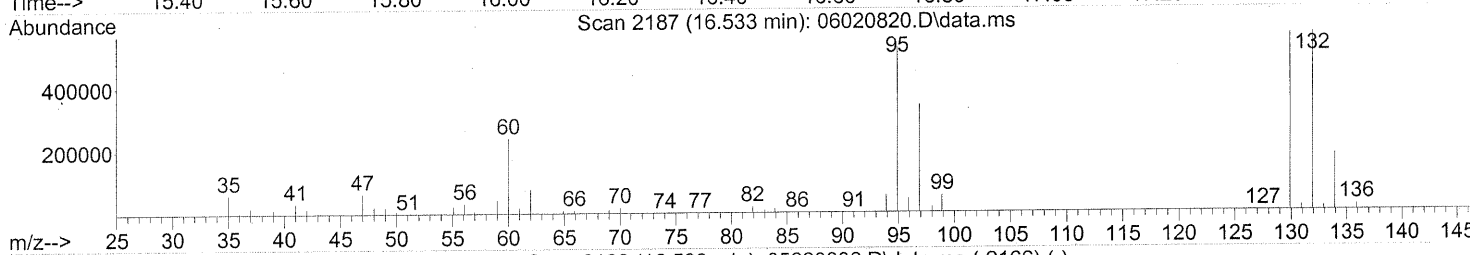
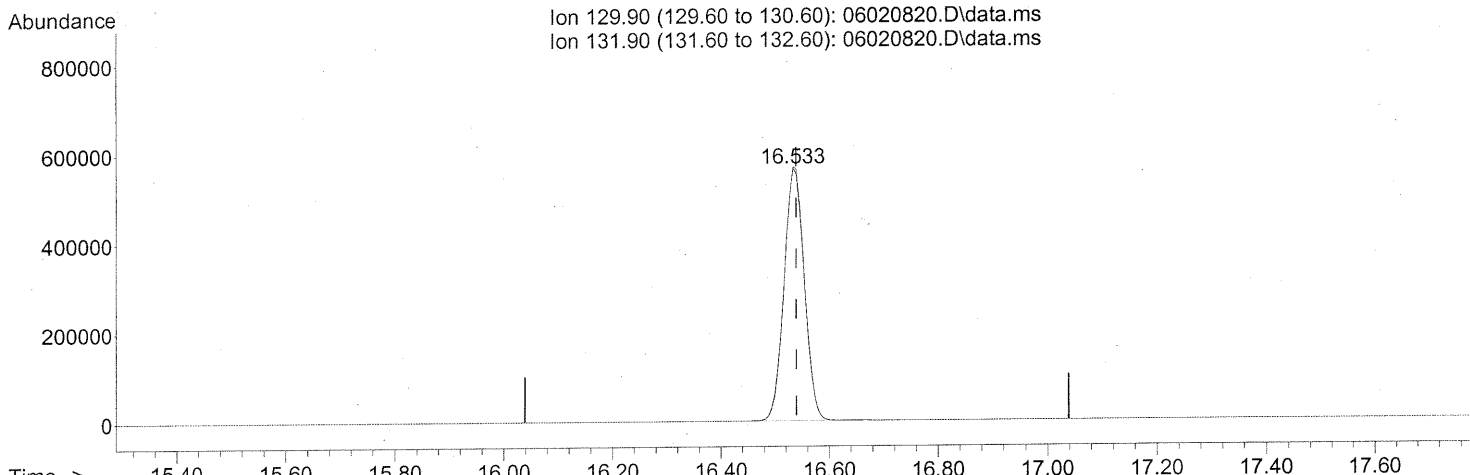
response 4721

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	97.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)  
 16.533min (-0.006) 57.91ng

response 1454554

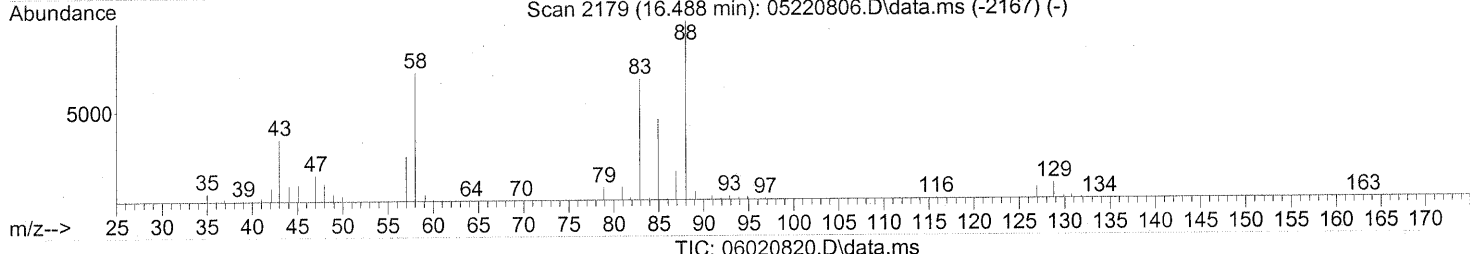
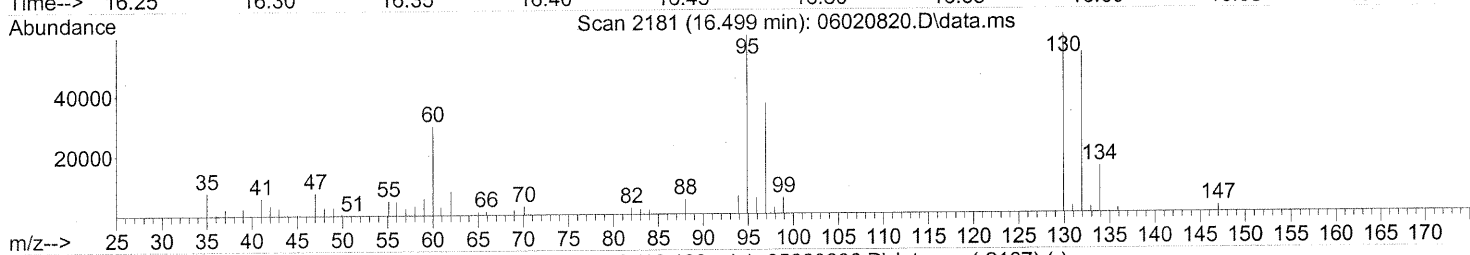
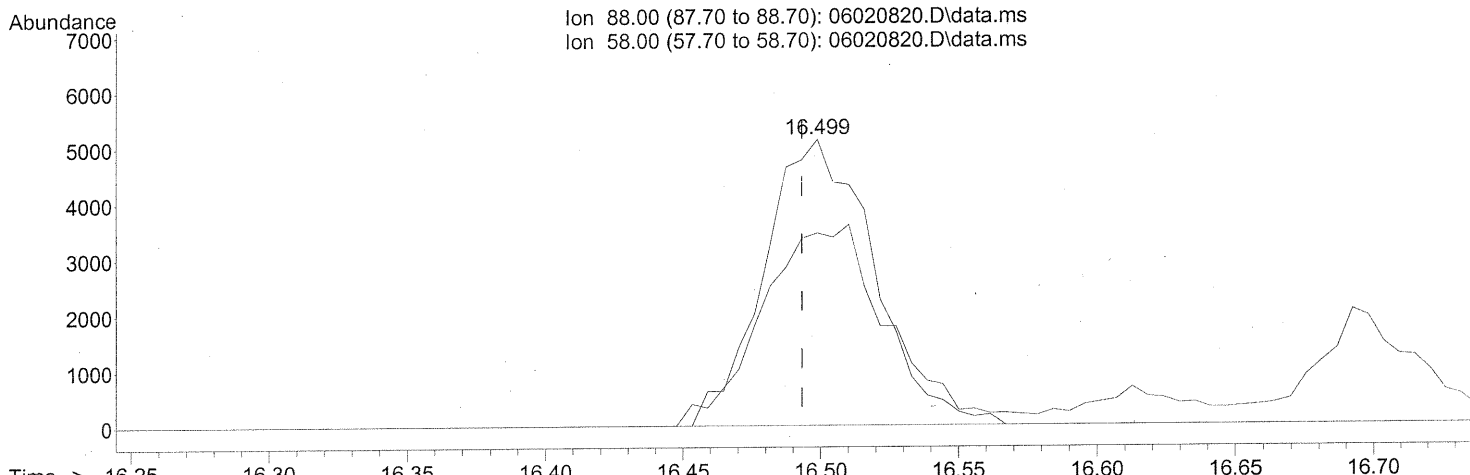
Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.77
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.91ng  
 response 14125

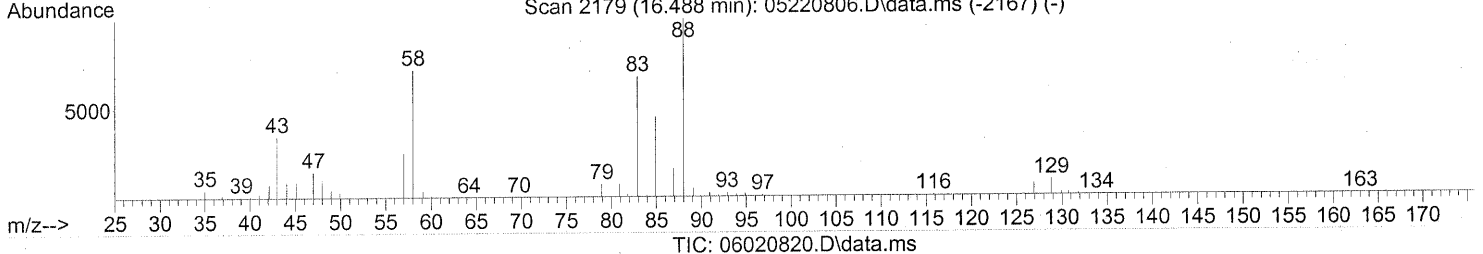
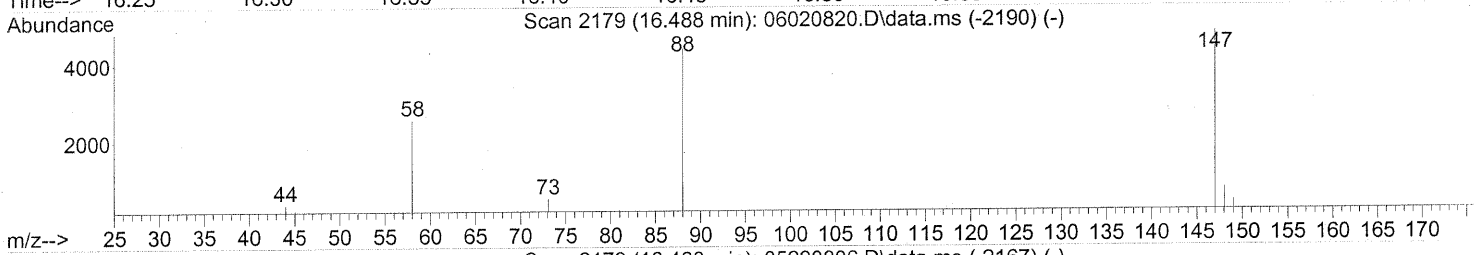
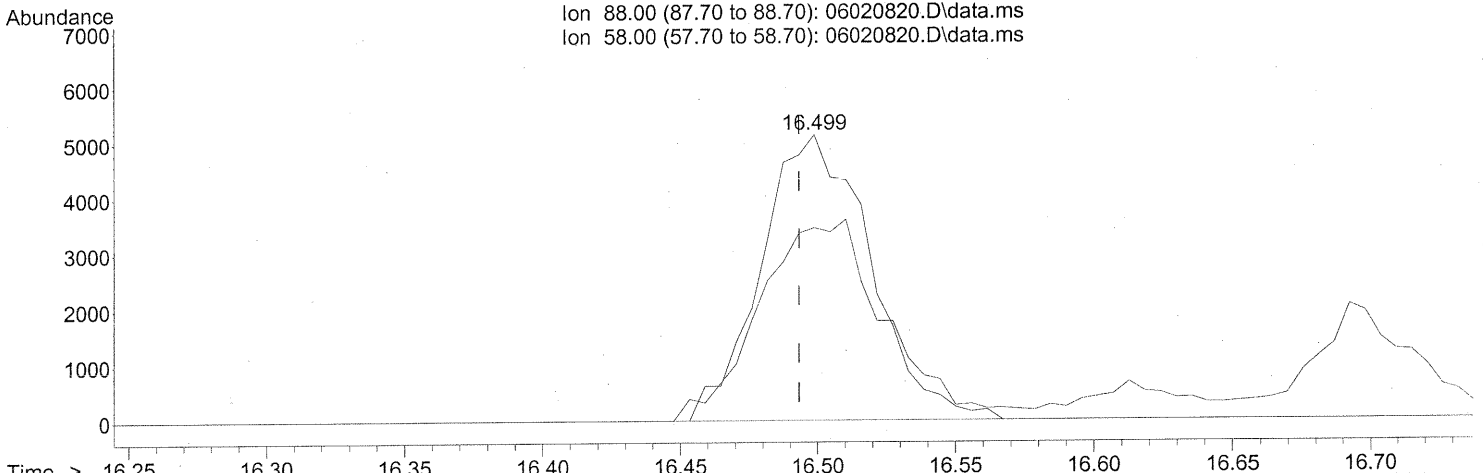
*BEFORE SUBTRACTION*

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	80.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.91ng  
 response 14125

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	80.78
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

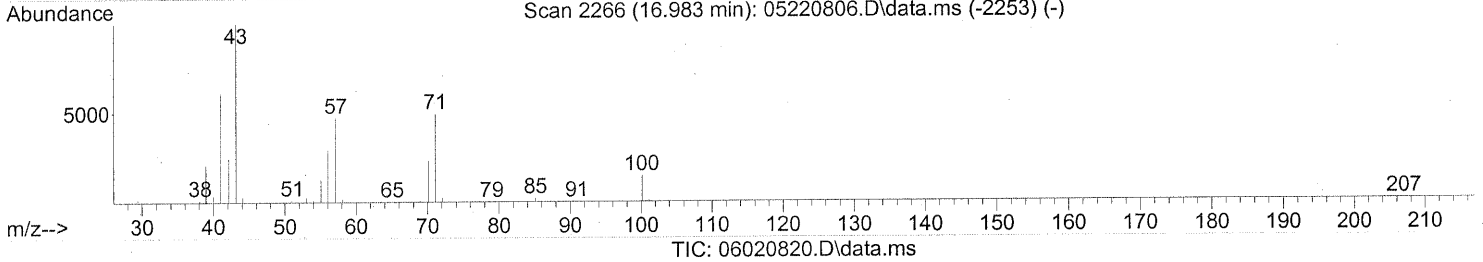
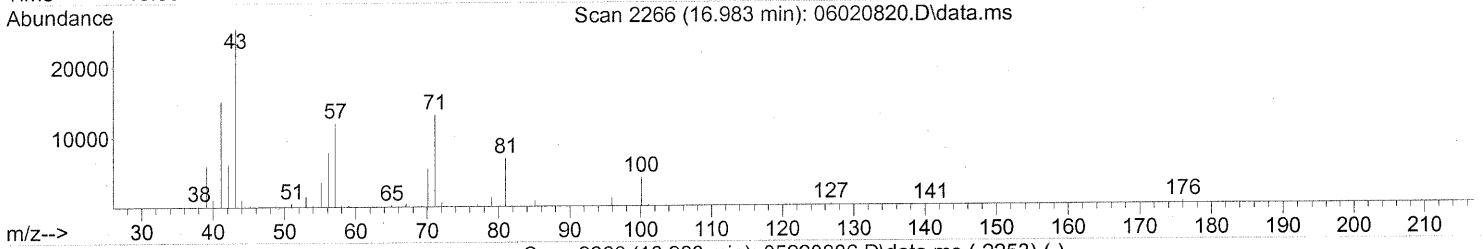
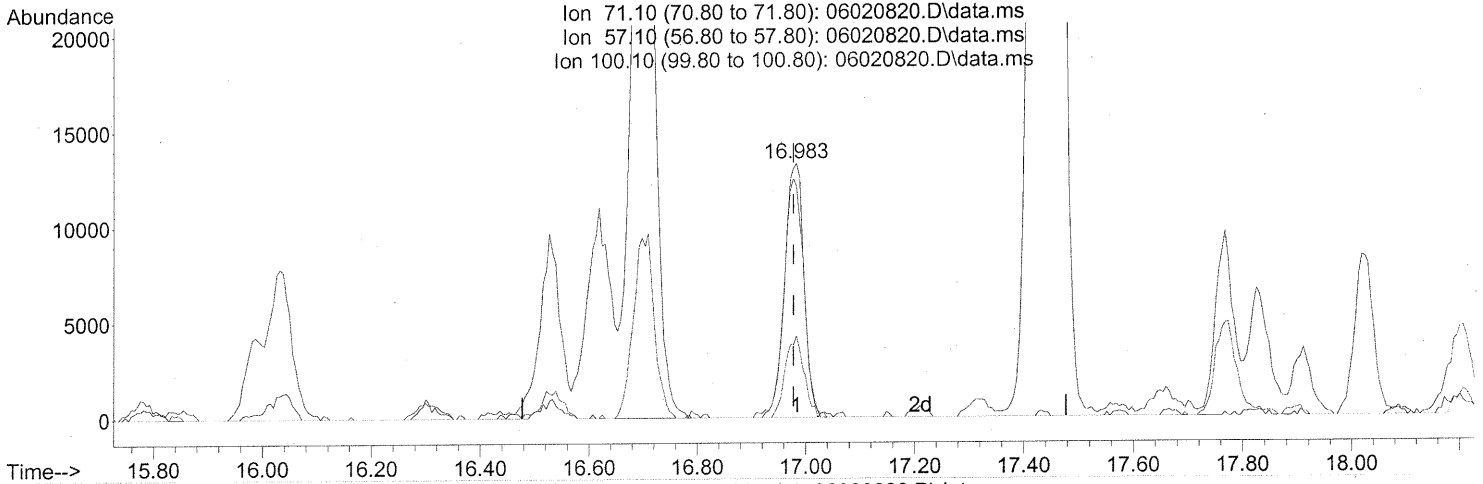
Pos/08/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



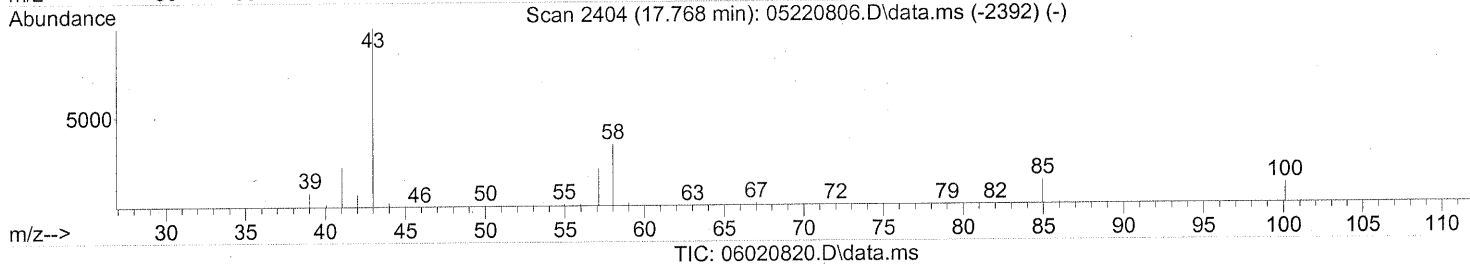
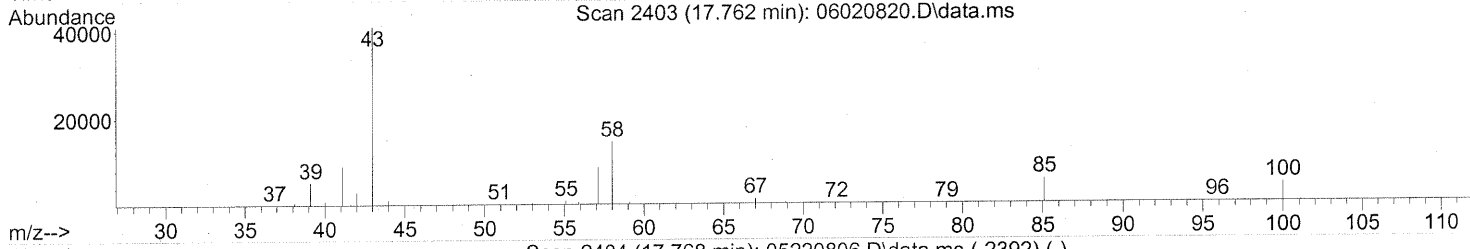
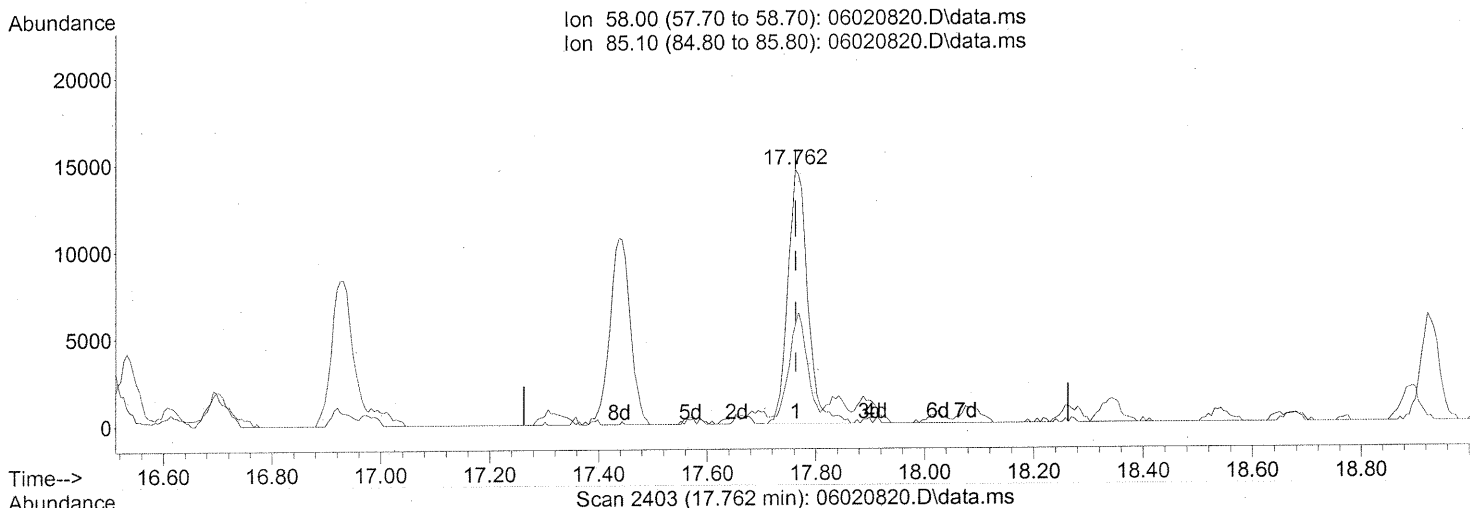
(51) n-Heptane (T)  
 16.983min (+0.006) 1.51ng  
 response 32802

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	96.77#
100.10	30.10	31.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.762min (-0.000) 1.71ng

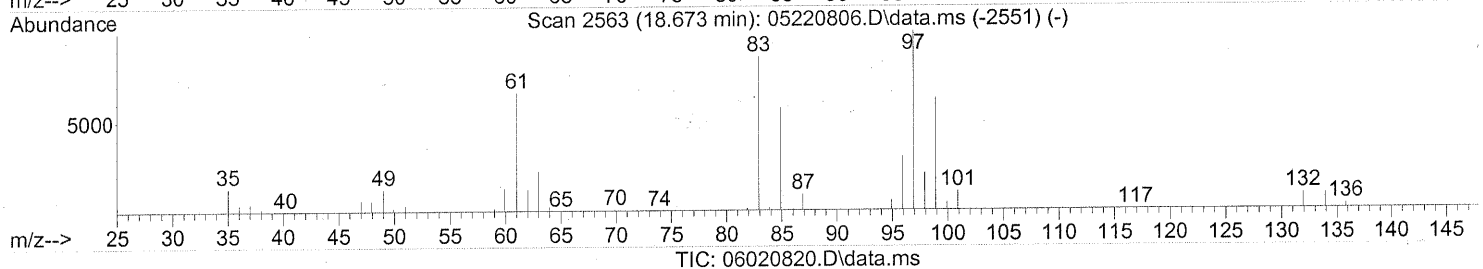
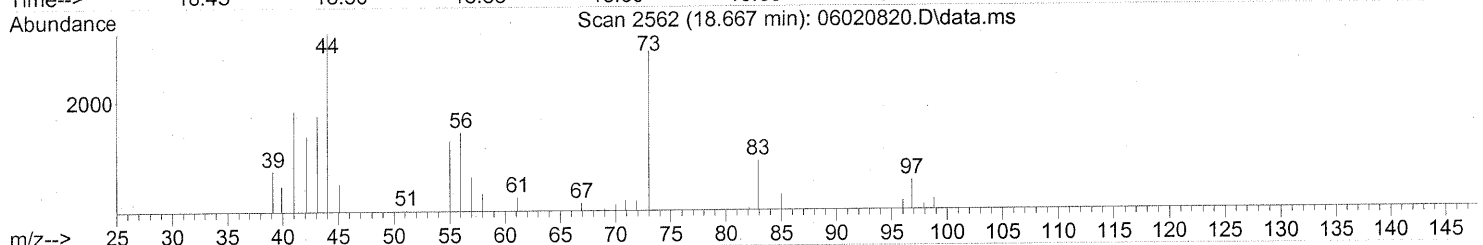
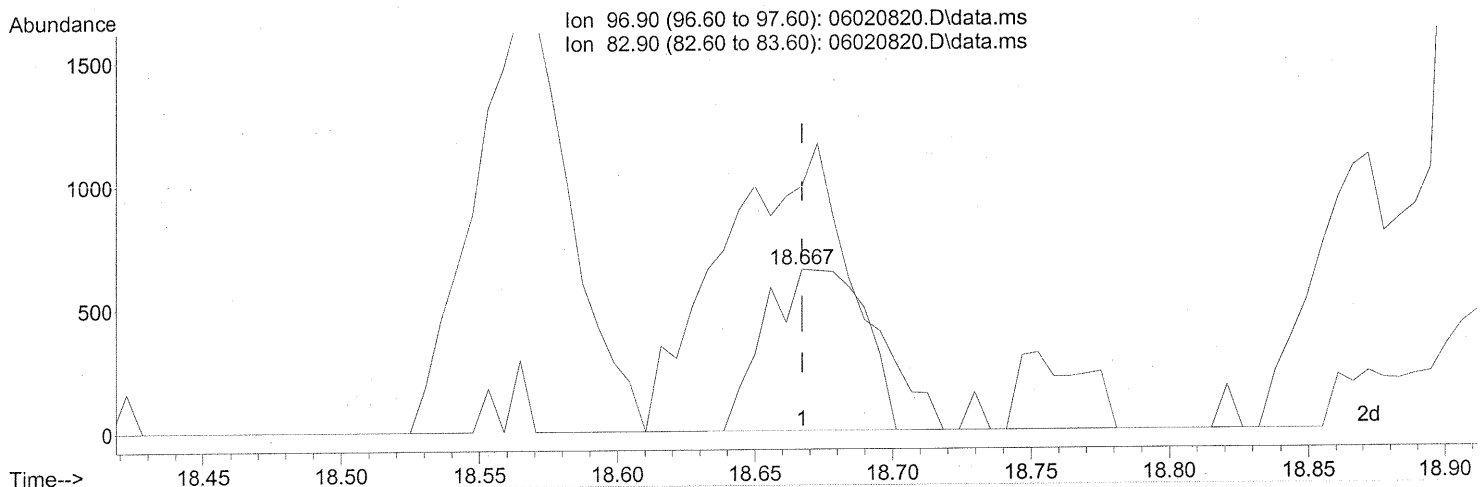
response 37233

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	40.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.667min (-0.000) 0.08ng

response 1649

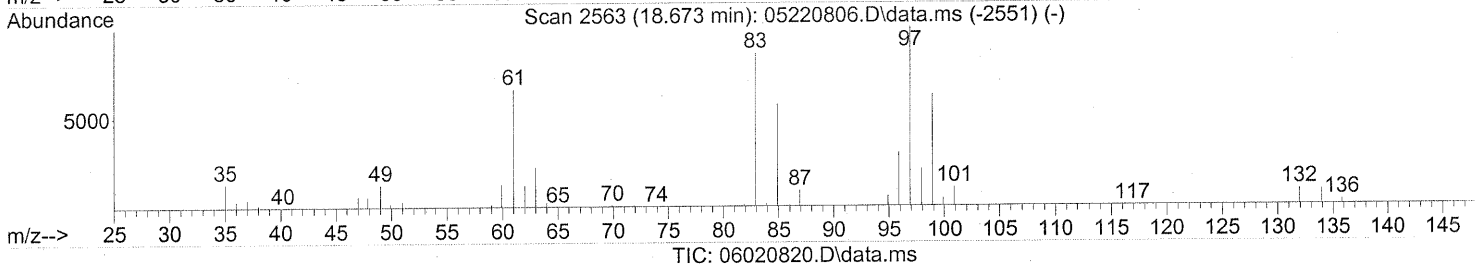
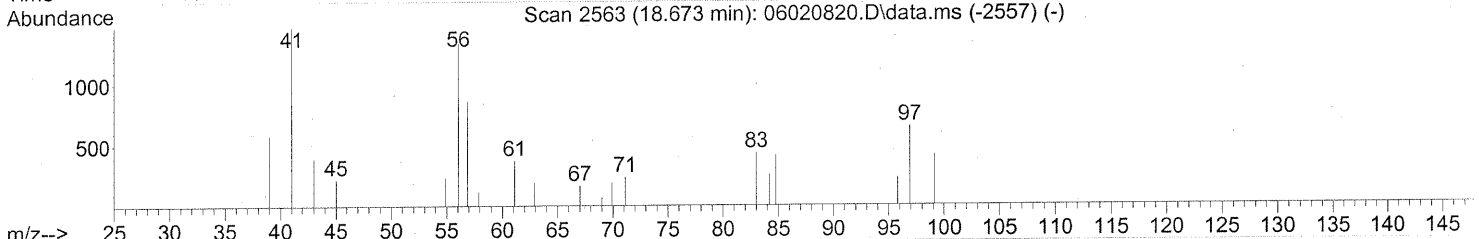
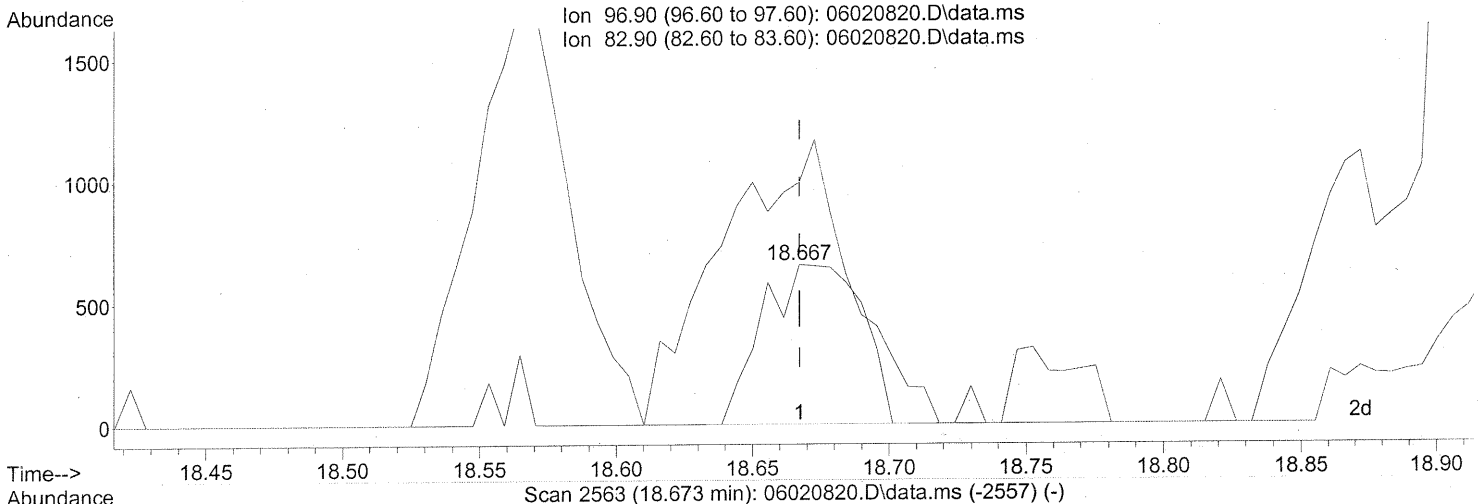
Ion	Exp%	Act%
96.90	100	100
82.90	84.80	233.78#
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.667min (-0.000) 0.08ng

response 1649

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	233.78#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

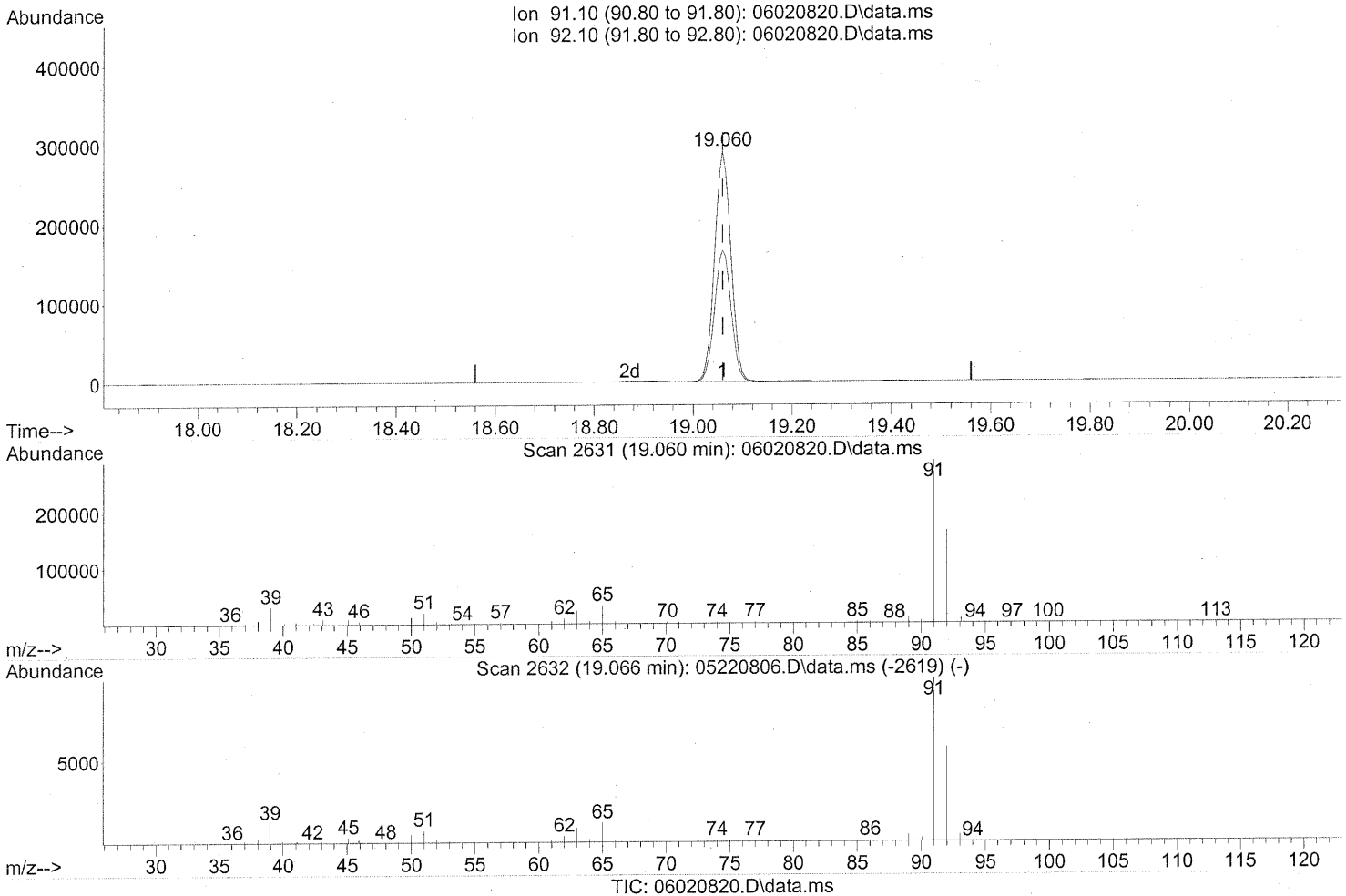
*Handwritten signature*  
 6/8/08

*Handwritten signature*  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 7.37ng

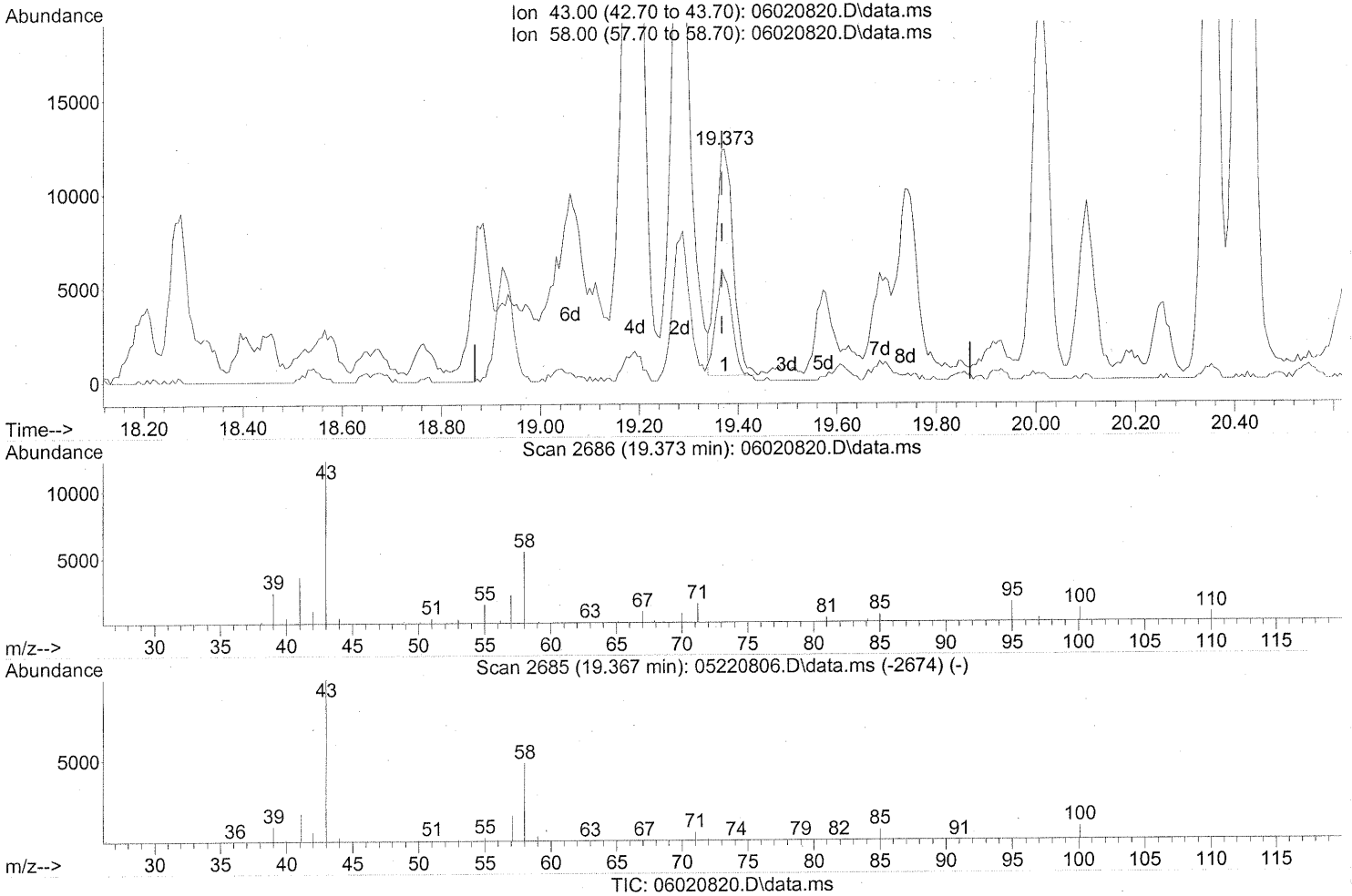
response 663852

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.47ng

response 29360

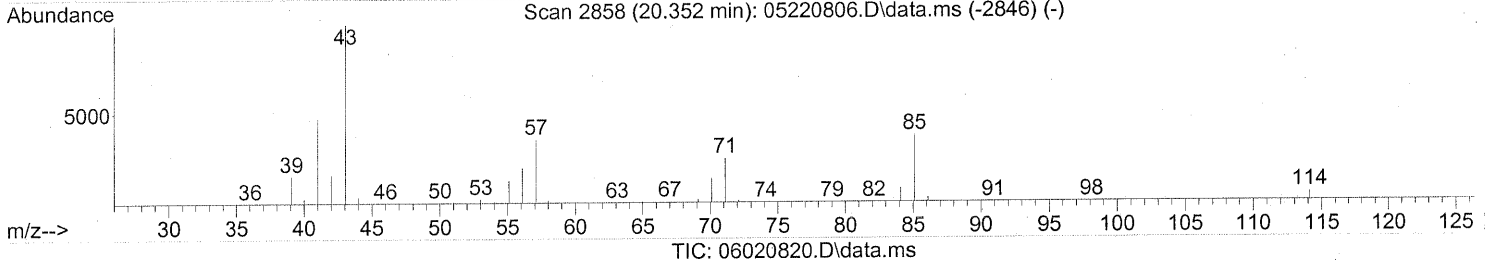
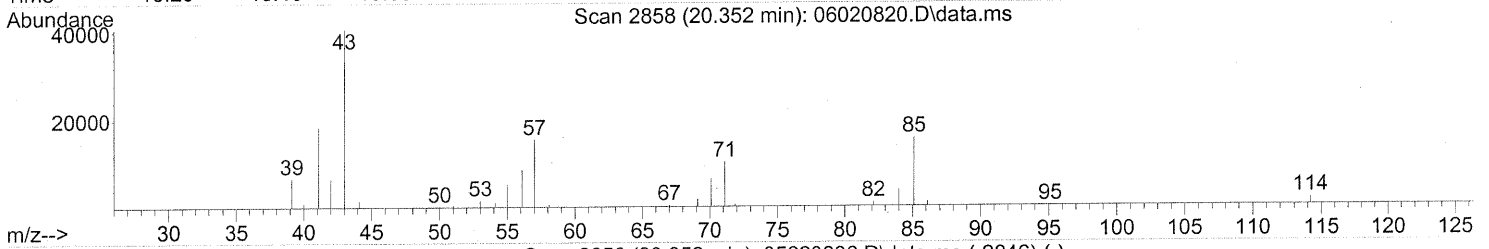
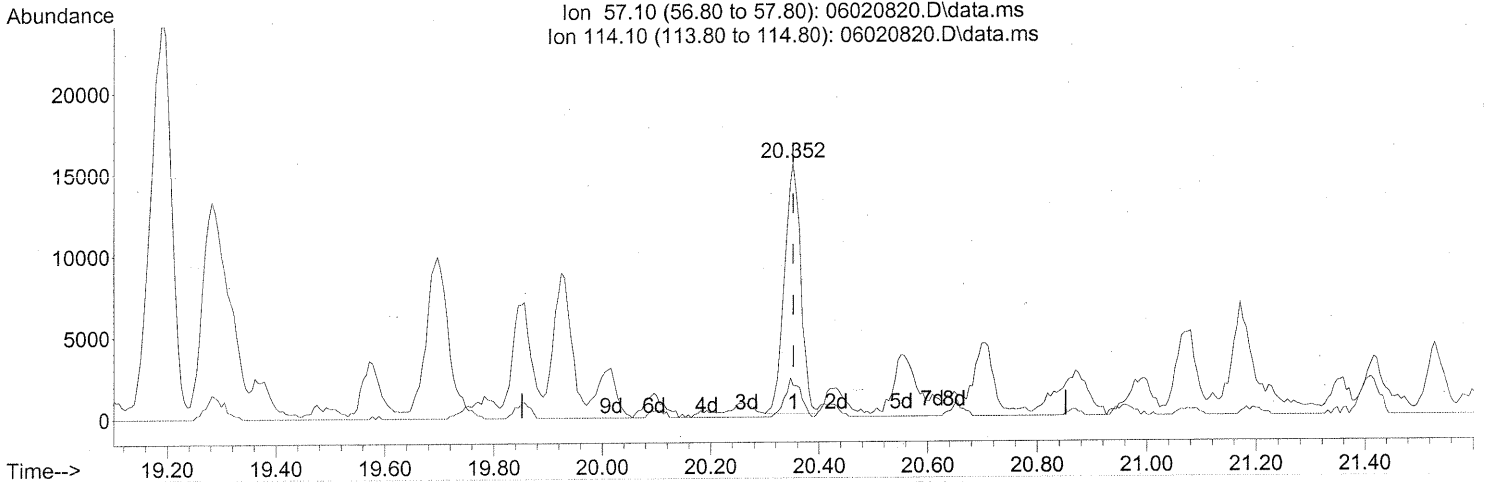
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	47.37
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



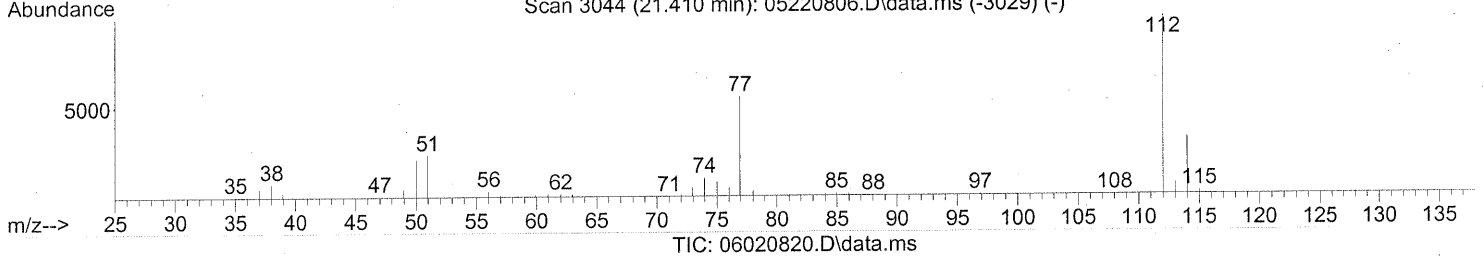
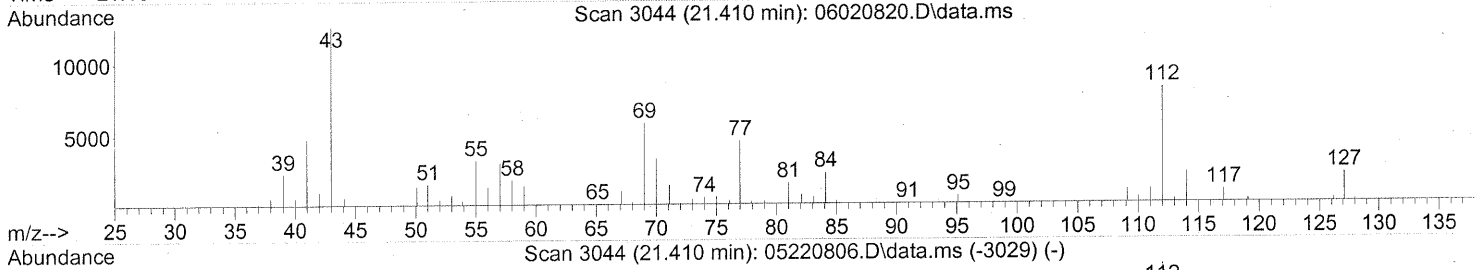
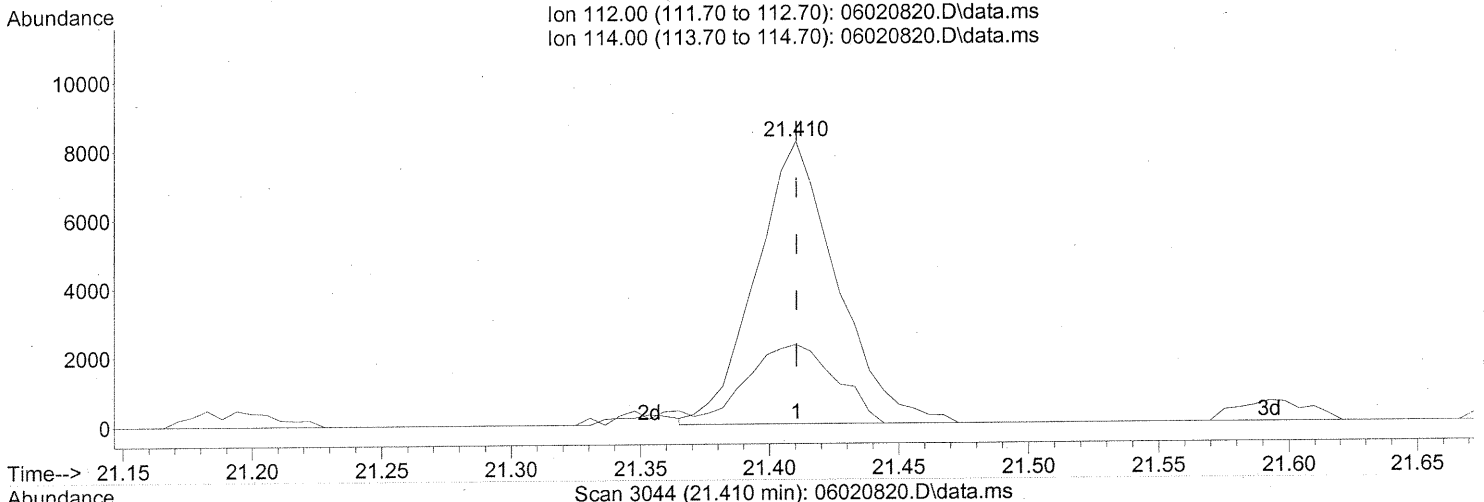
(63) n-Octane (T)  
 20.352min (-0.000) 1.60ng  
 response 31941

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020820.D  
Acq On : 2 Jun 2008 11:08 pm  
Operator : RTB  
Sample : P0801548-015 (500mL)  
Misc : ENSR SG66B-05 (-2.8, 3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(65) Chlorobenzene (T)  
21.410min (-0.000) 0.30ng

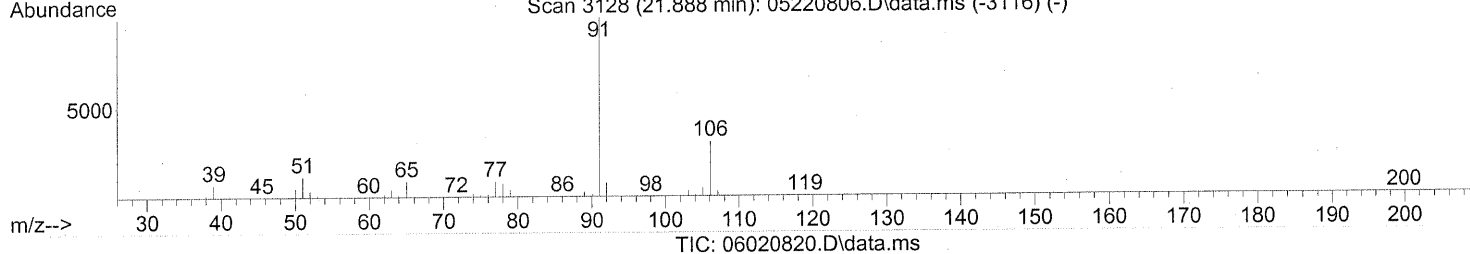
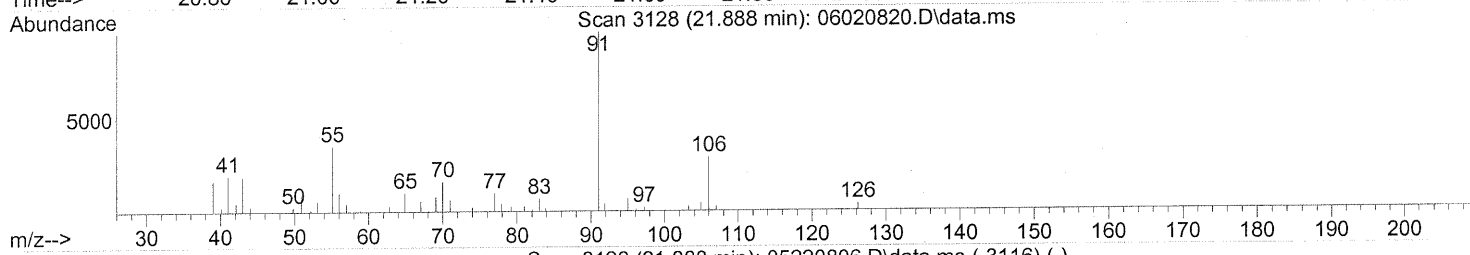
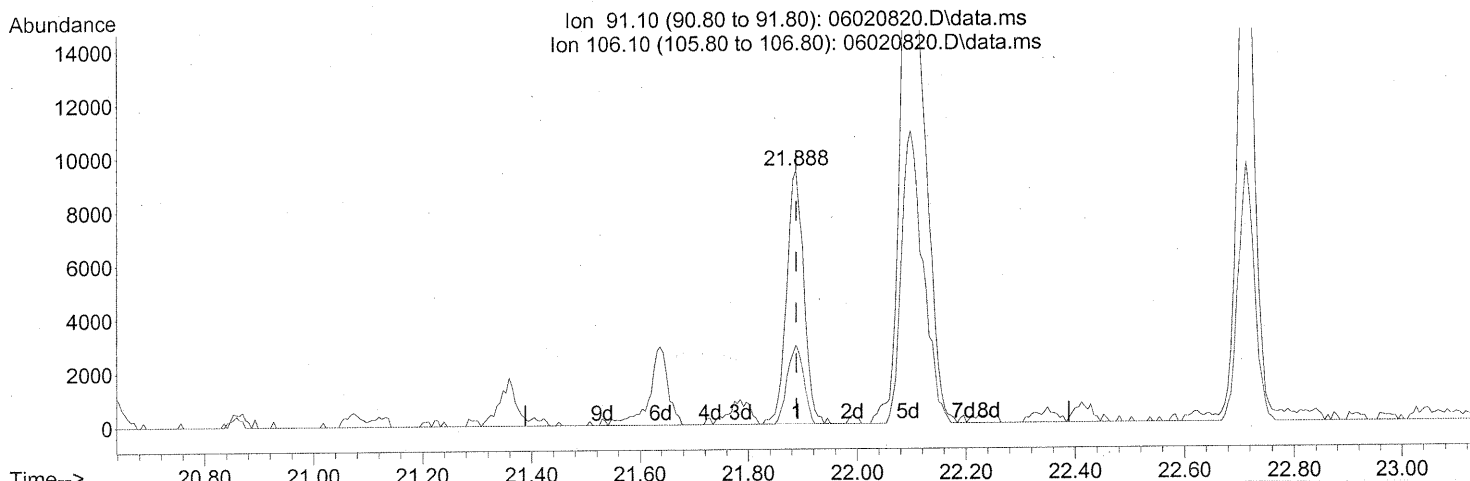
response 17843

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	30.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)  
 21.888min (-0.000) 0.20ng

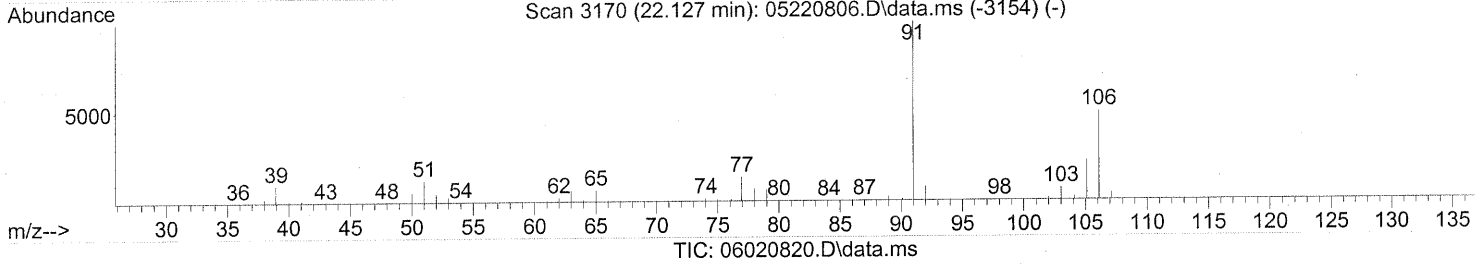
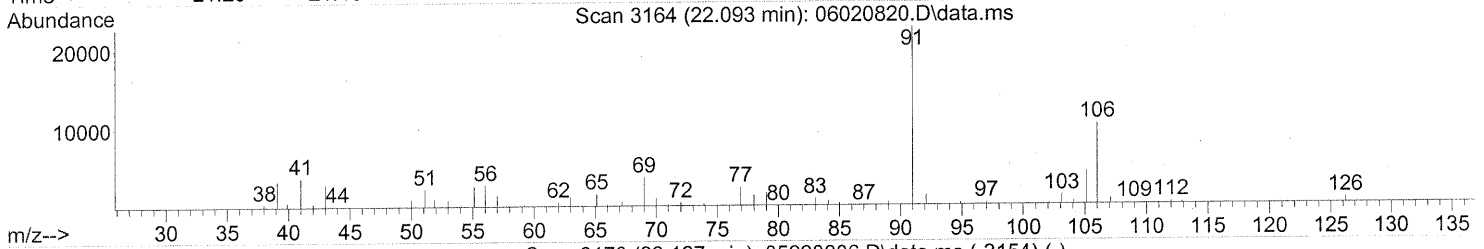
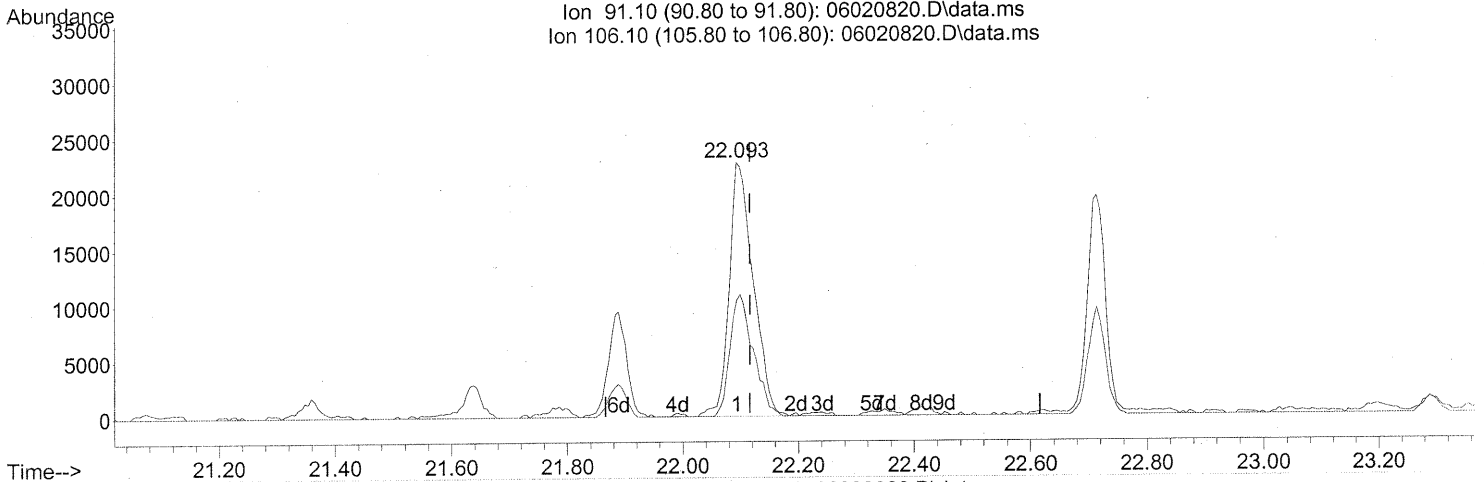
response 20808

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	29.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.093min (-0.023) 0.95ng

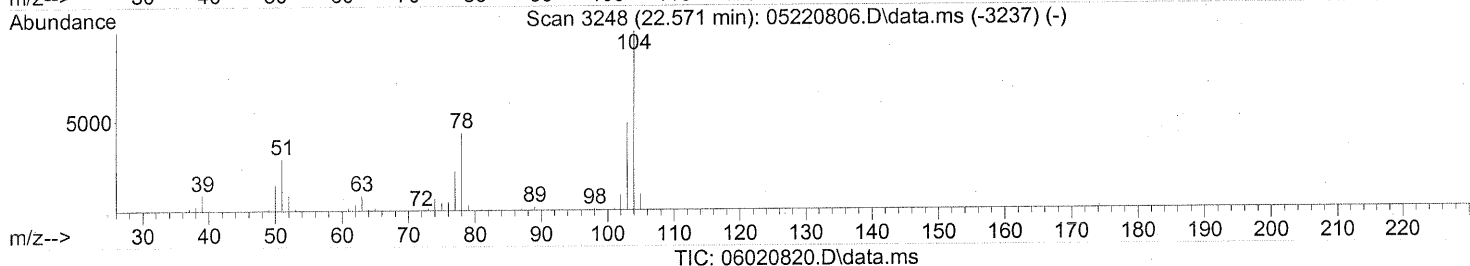
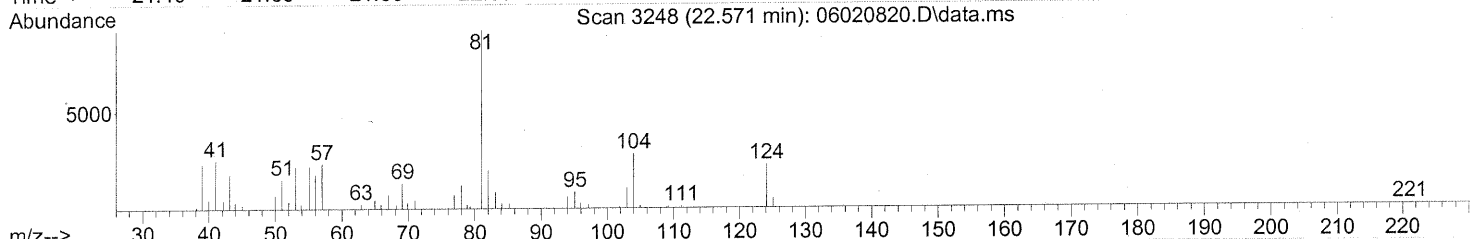
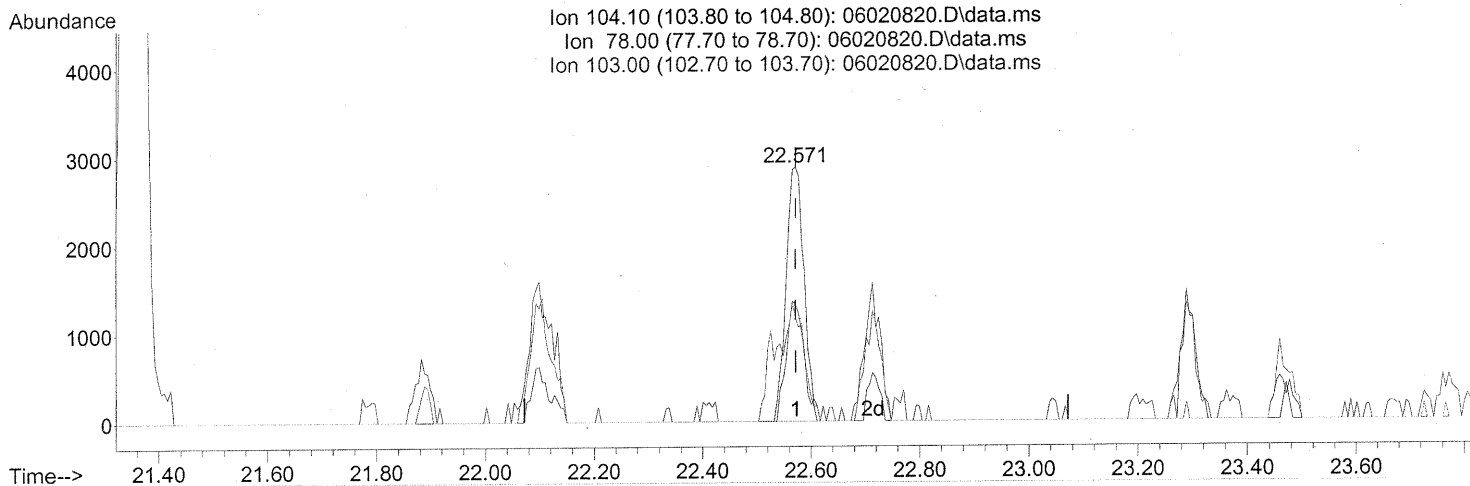
response 65381

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	46.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



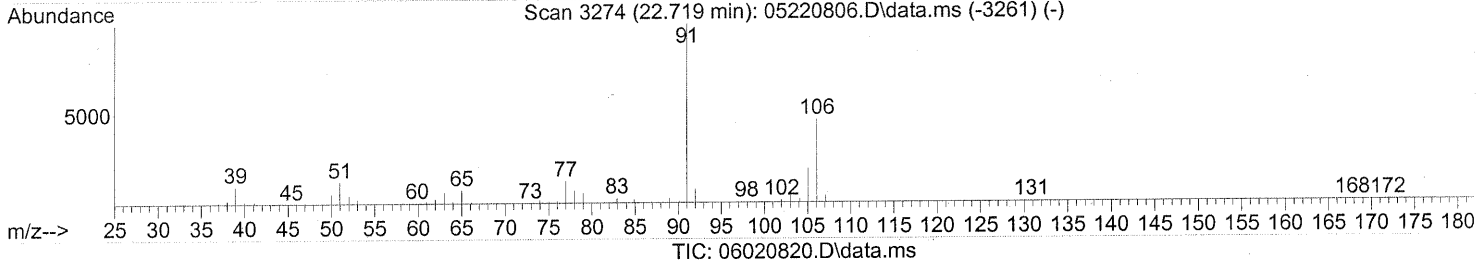
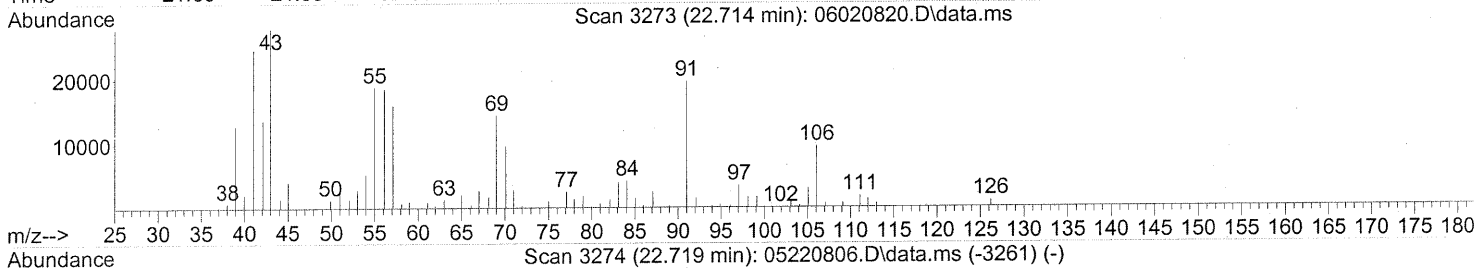
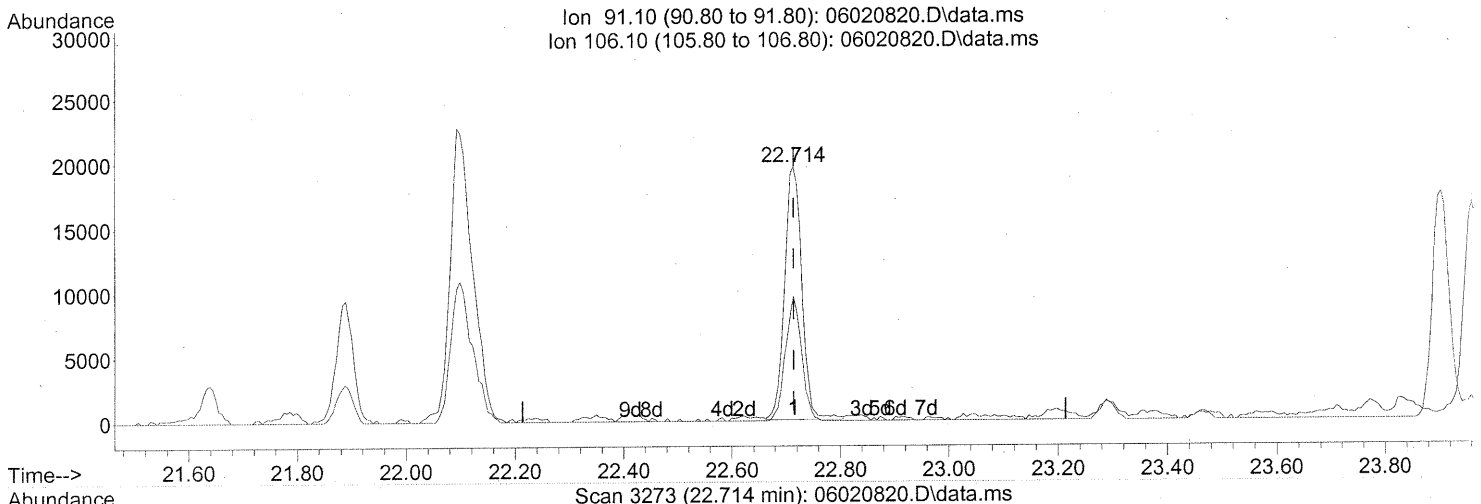
(69) Styrene (T)  
 22.571min (-0.000) 0.11ng  
 response 6579

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	47.68
103.00	47.10	44.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 0.58ng

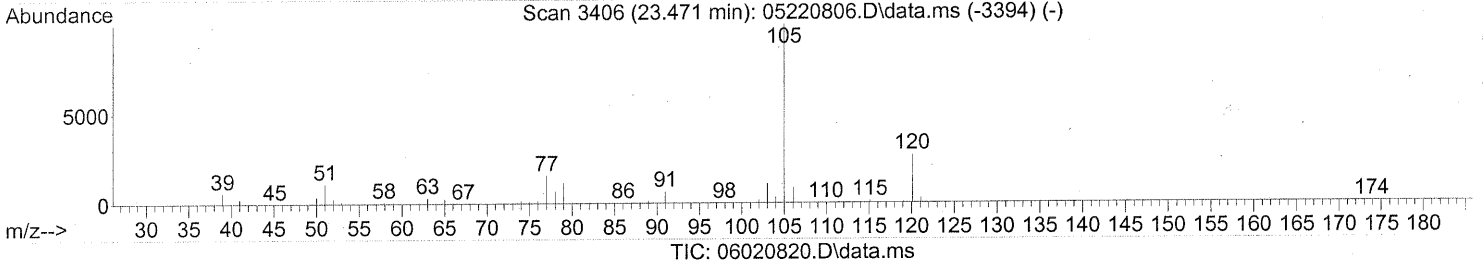
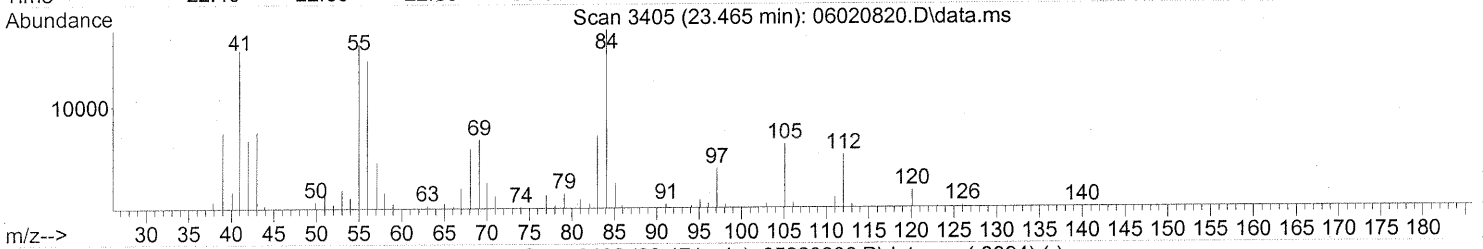
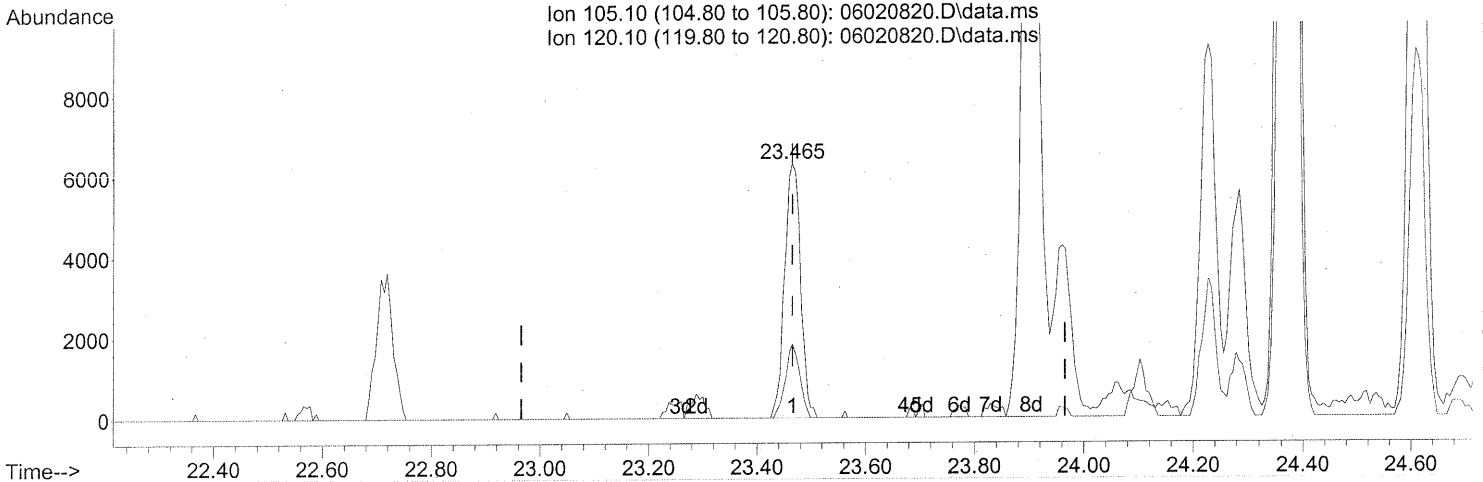
response 43086

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.13ng

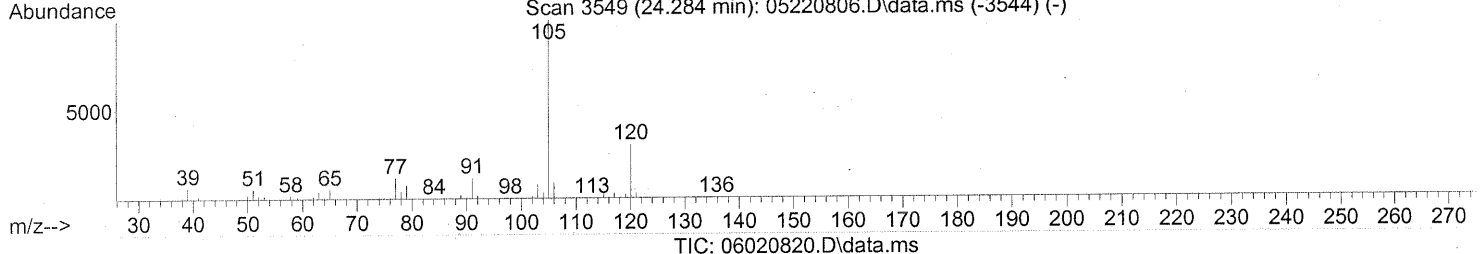
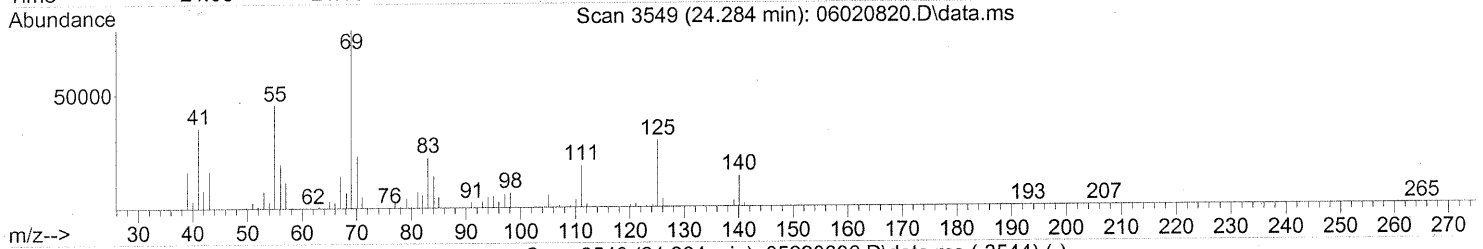
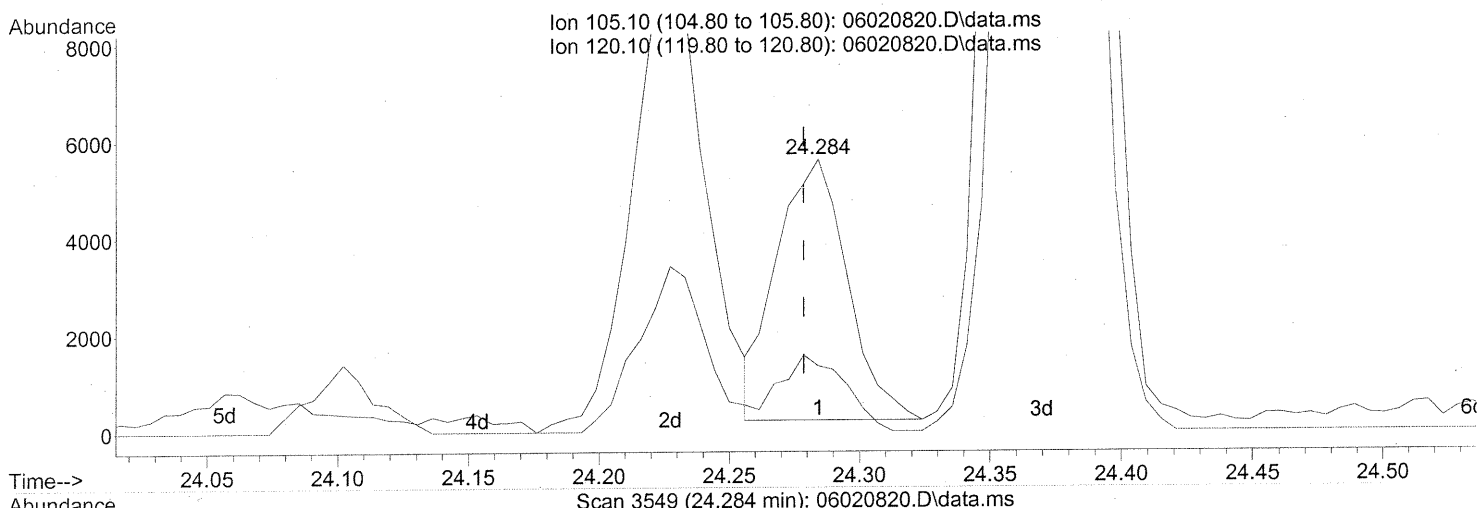
response 12883

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	26.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)  
 24.284min (+0.006) 0.10ng  
 response 10060

BEFORE SUBTRACTION

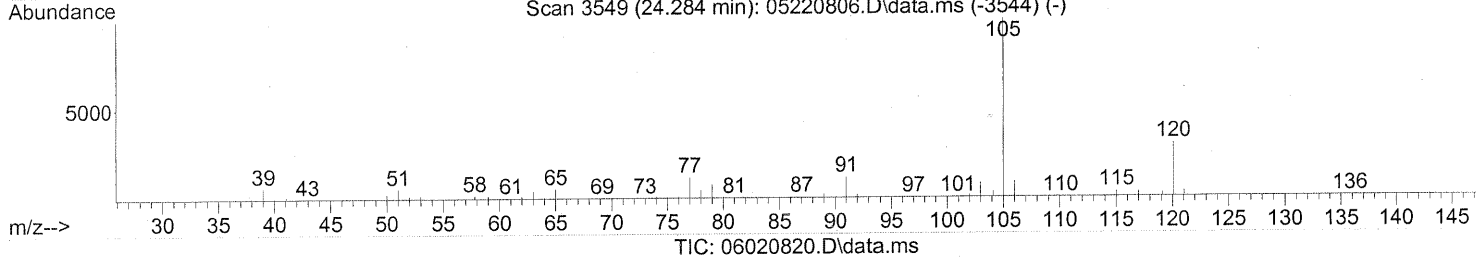
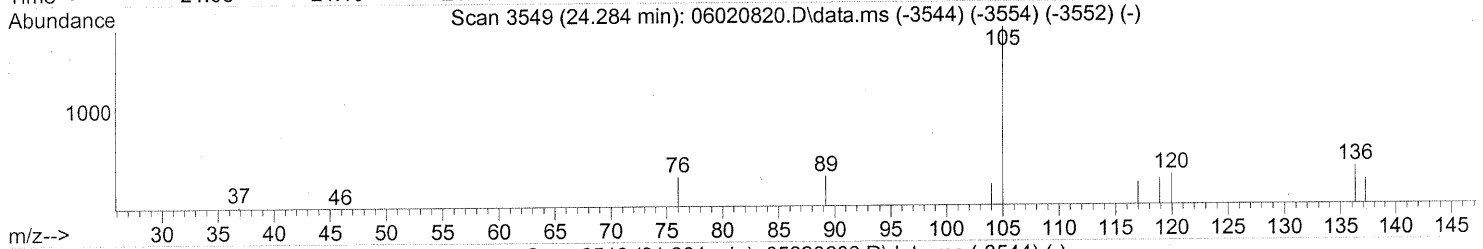
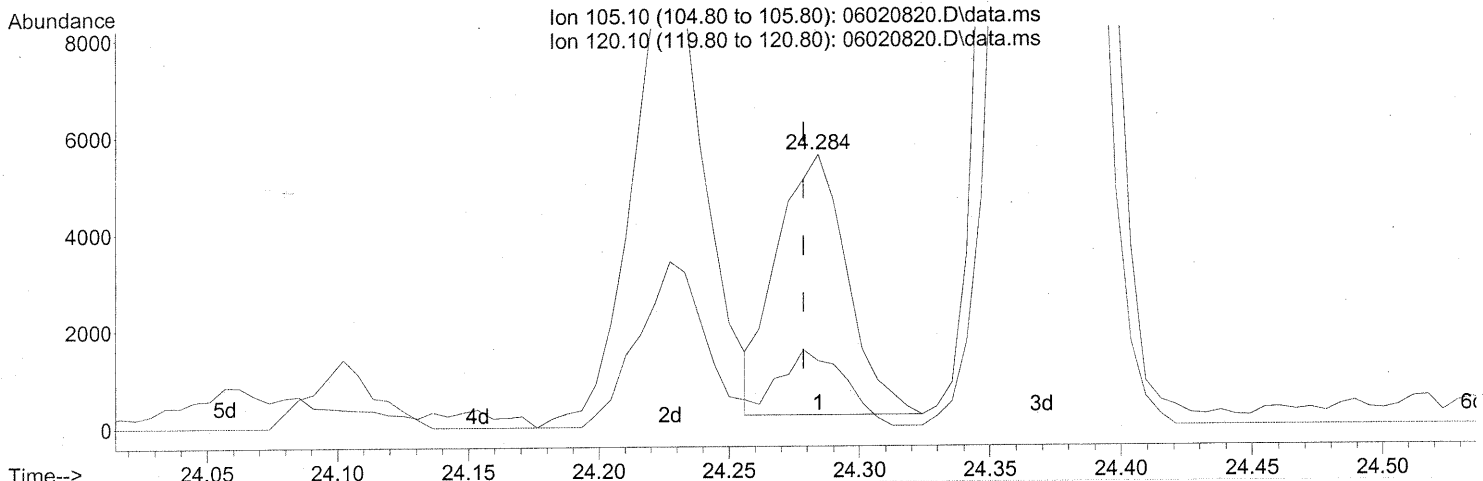
Ion	Exp%	Act%
105.10	100	100
120.10	30.40	26.35
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)  
 24.284min (+0.006) 0.10ng  
 response 10060

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	26.35
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

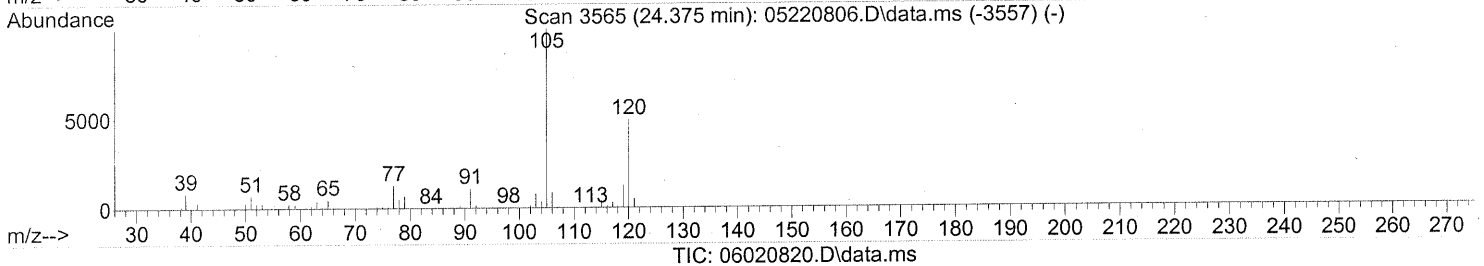
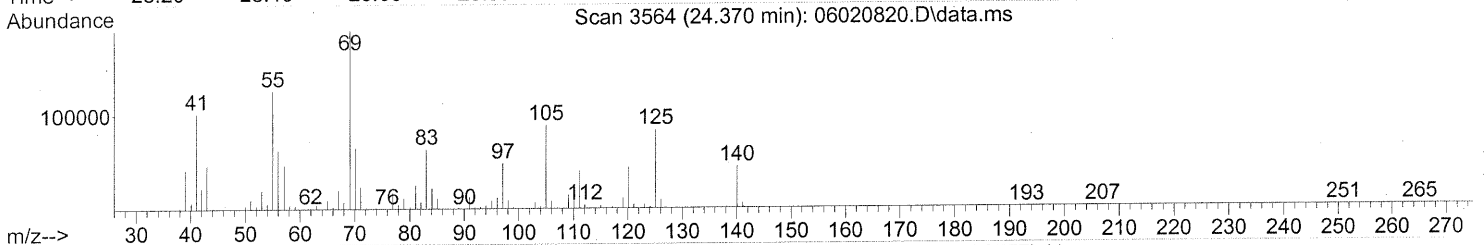
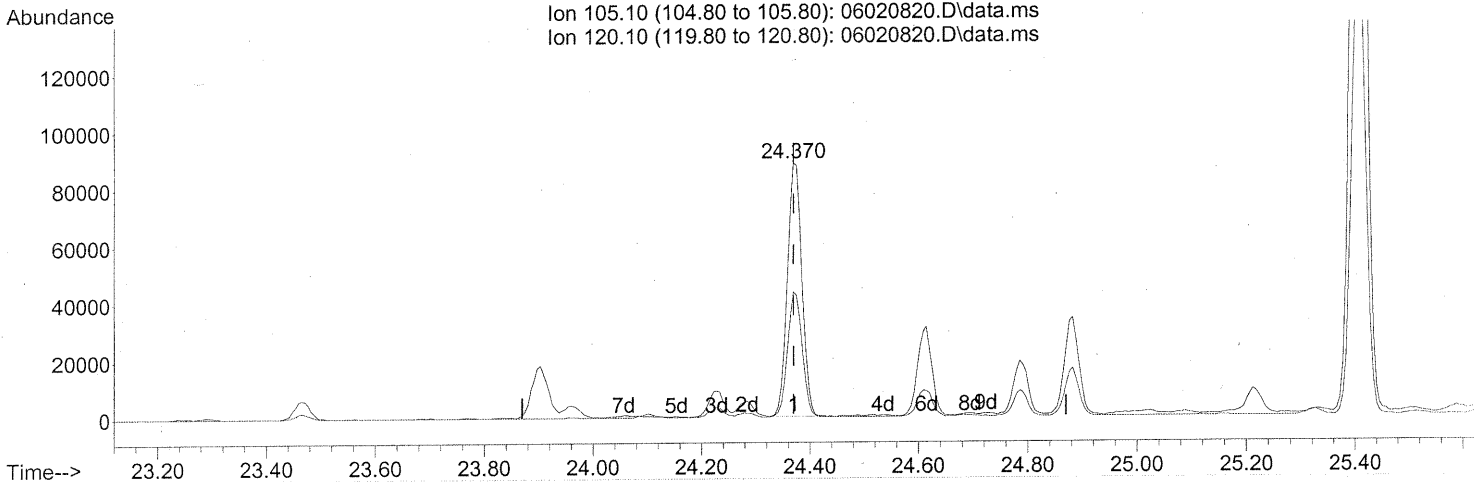
*Handwritten signature*  
 6/6/08

*Handwritten signature*  
 6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 1.87ng

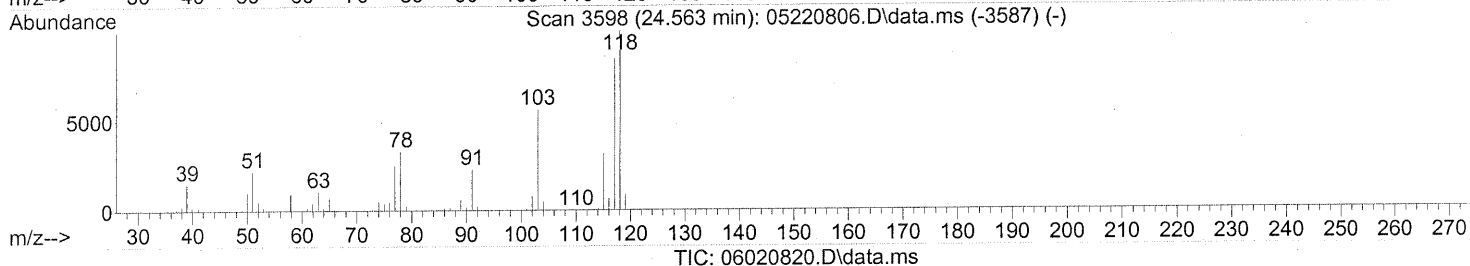
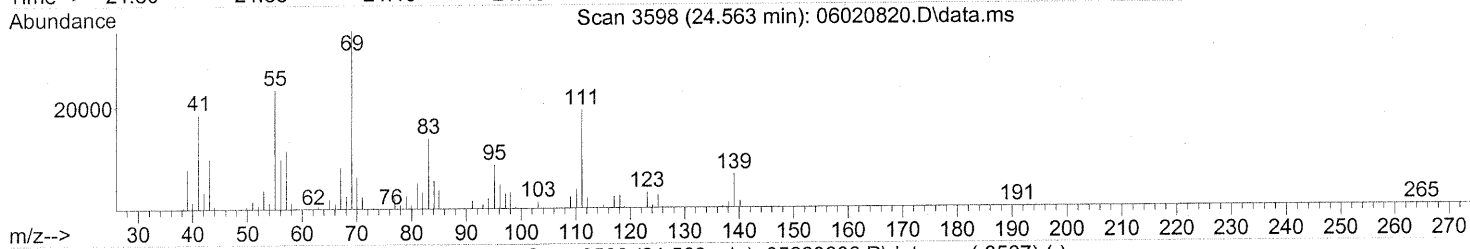
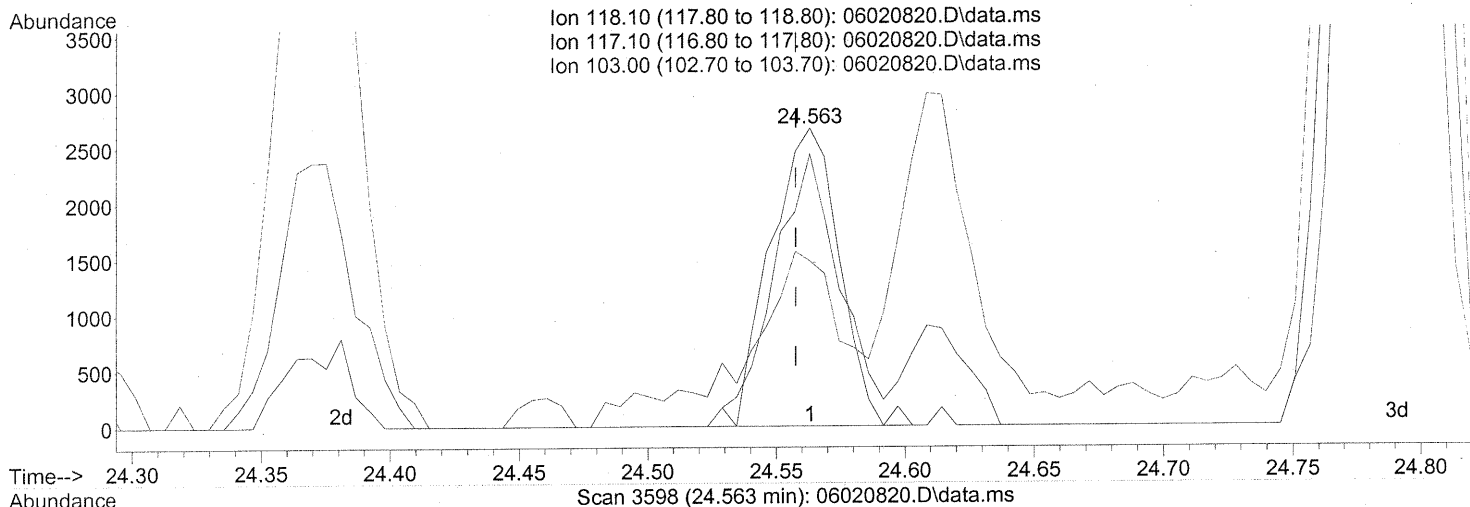
response 166170

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4994

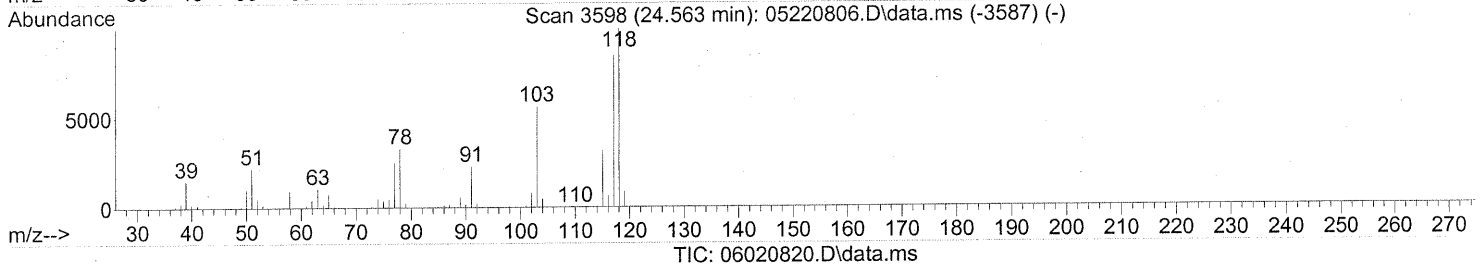
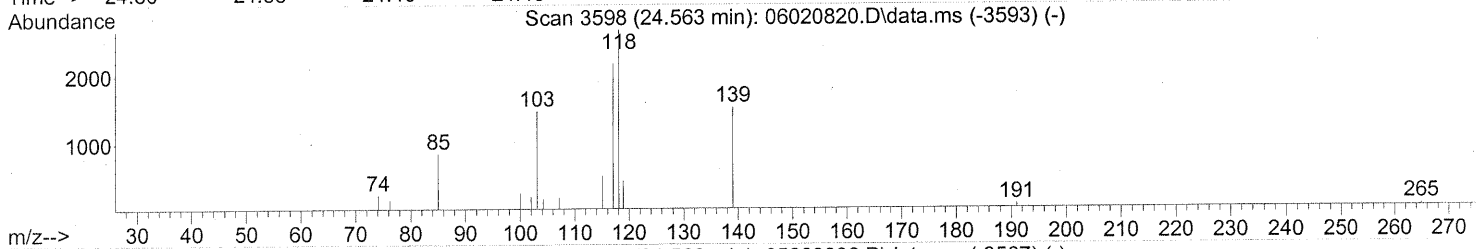
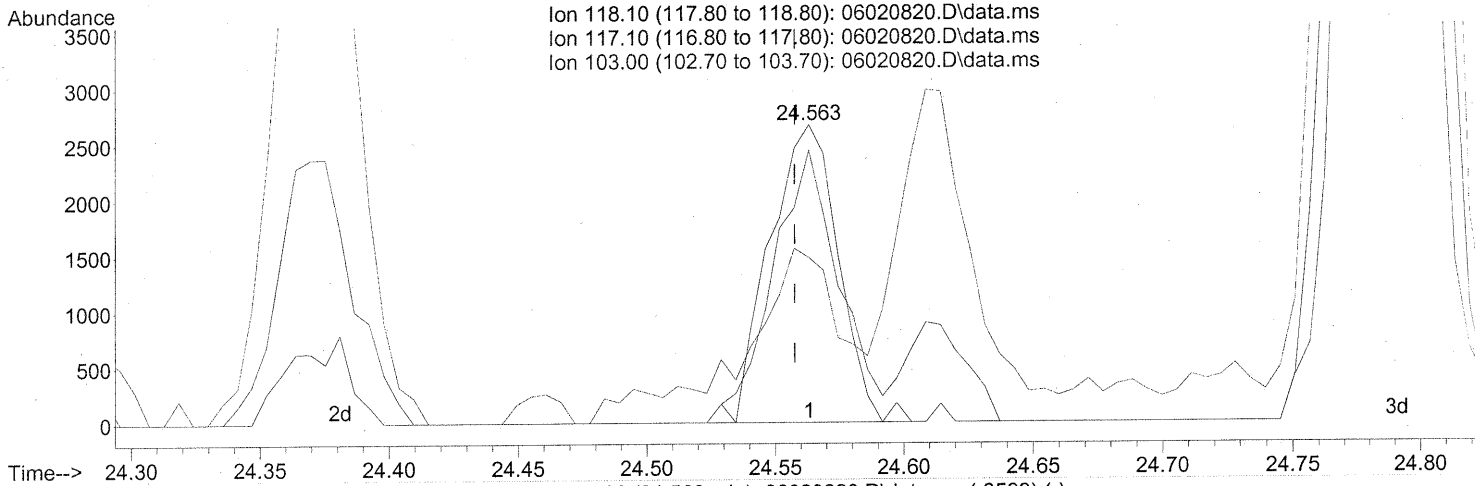
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	87.89
103.00	55.30	83.50#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4994

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	87.89
103.00	55.30	83.50#
0.00	0.00	0.00

AFTER SUBTRACTION

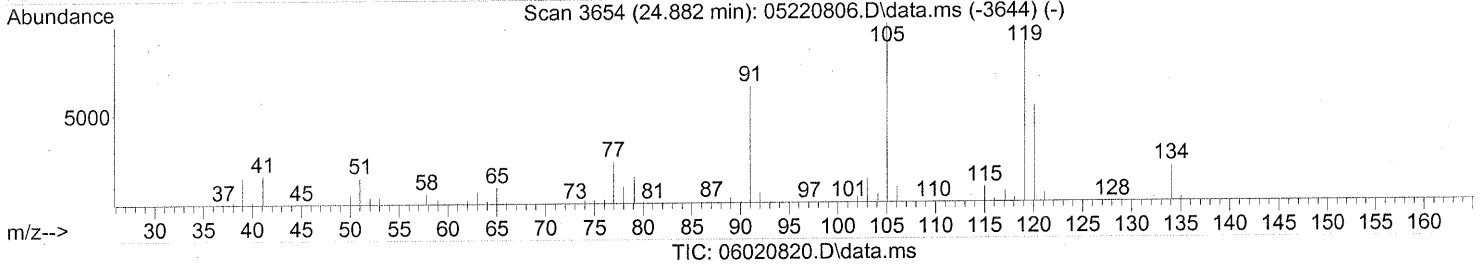
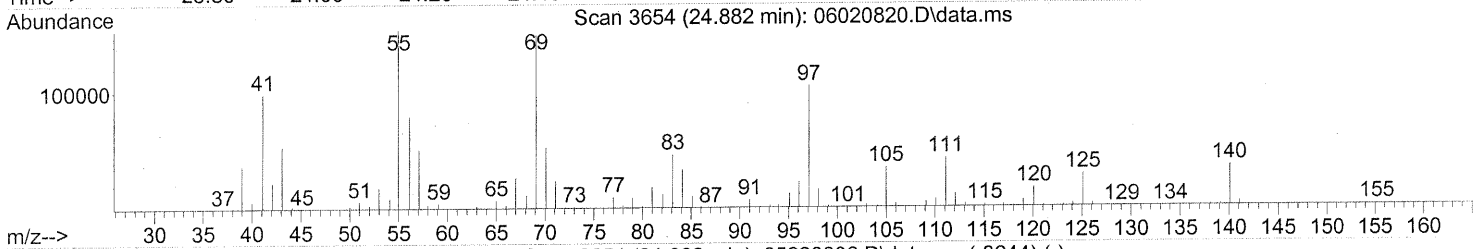
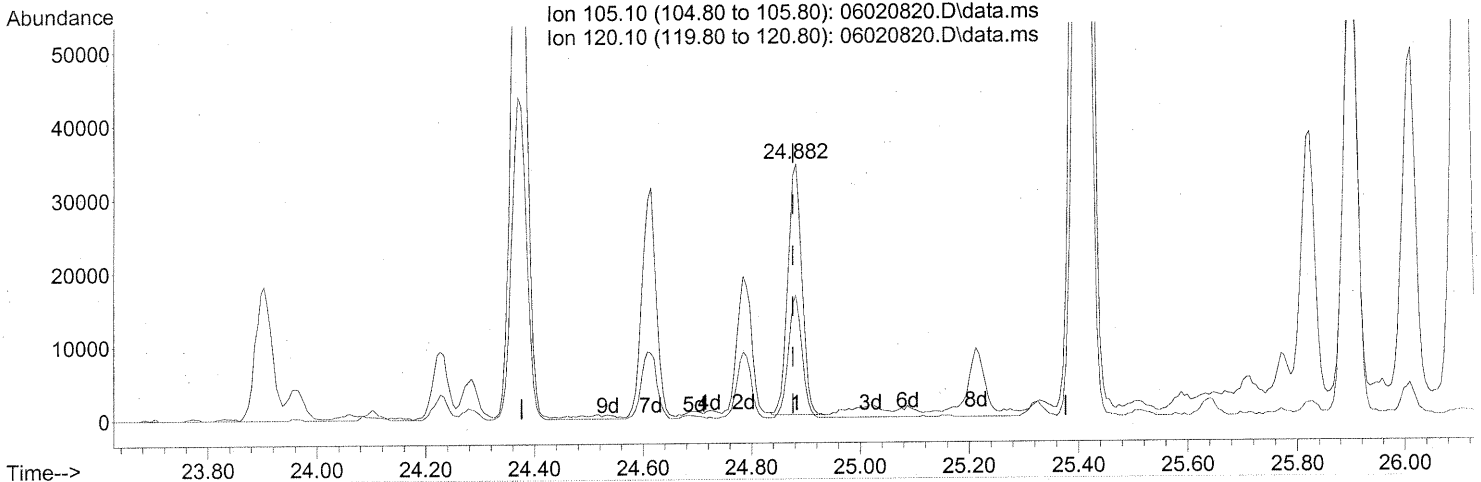
P0801548

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.882min (+0.006) 0.68ng

response 61690

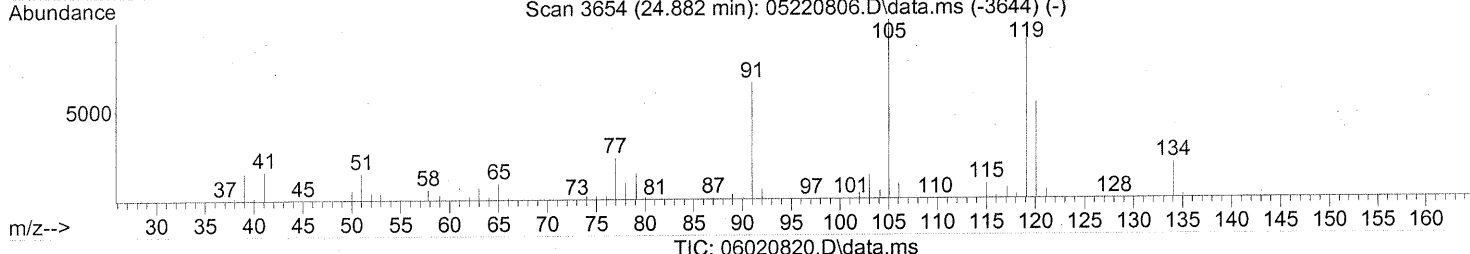
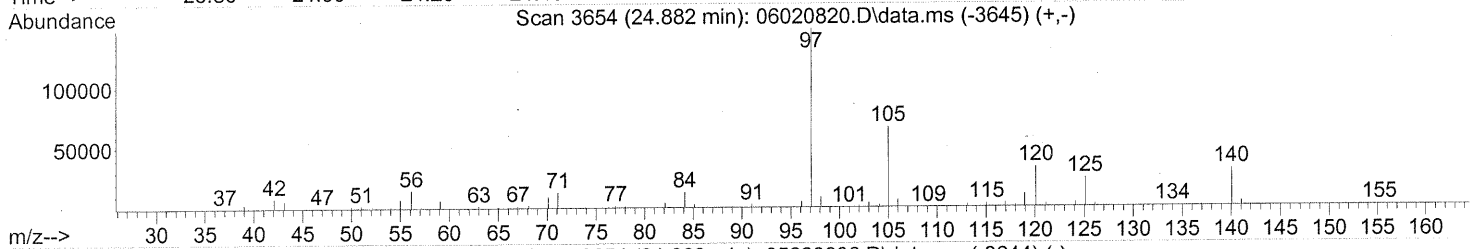
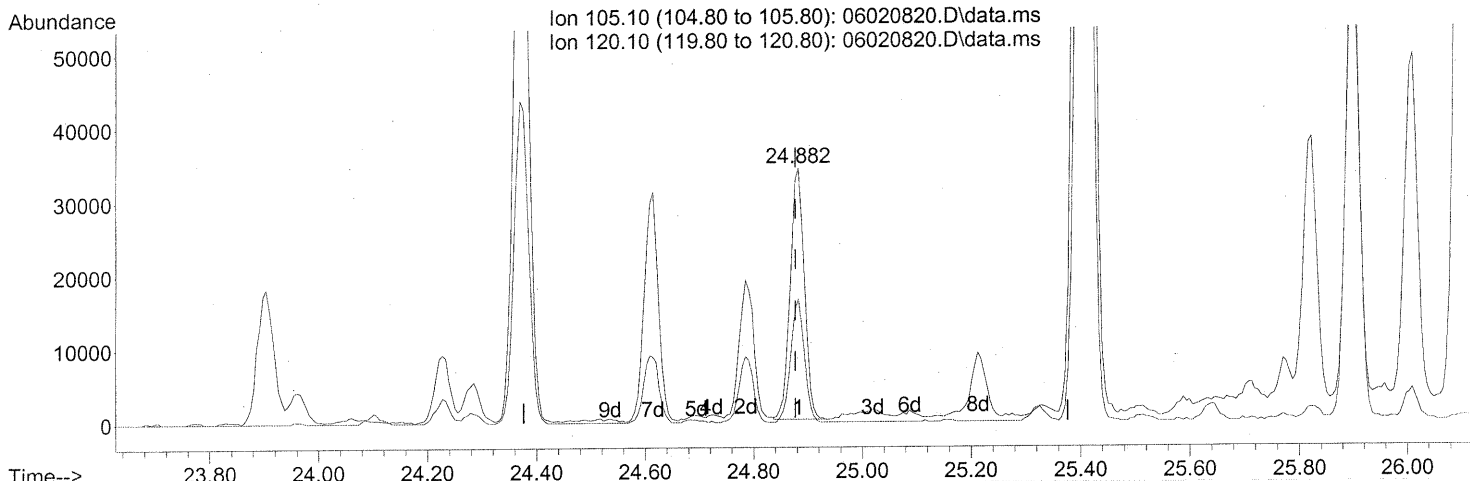
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.27
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.882min (+0.006) 0.68ng

response 61690

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	47.27
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

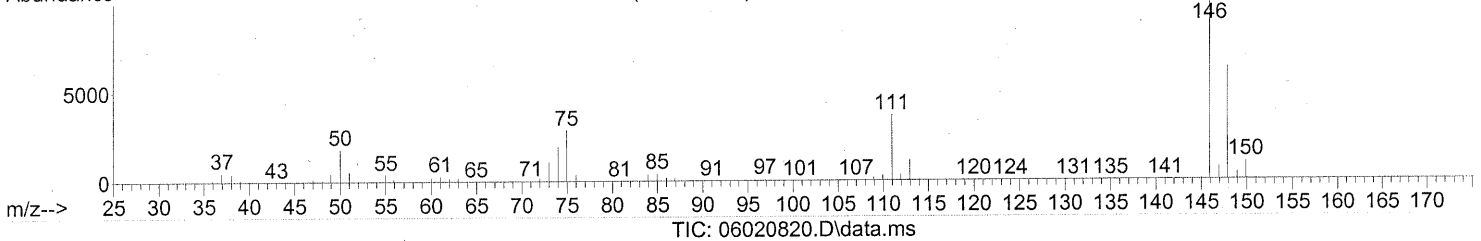
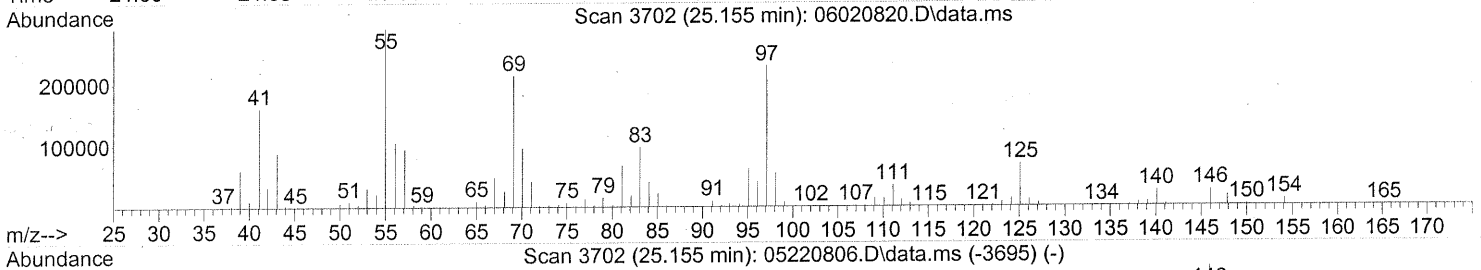
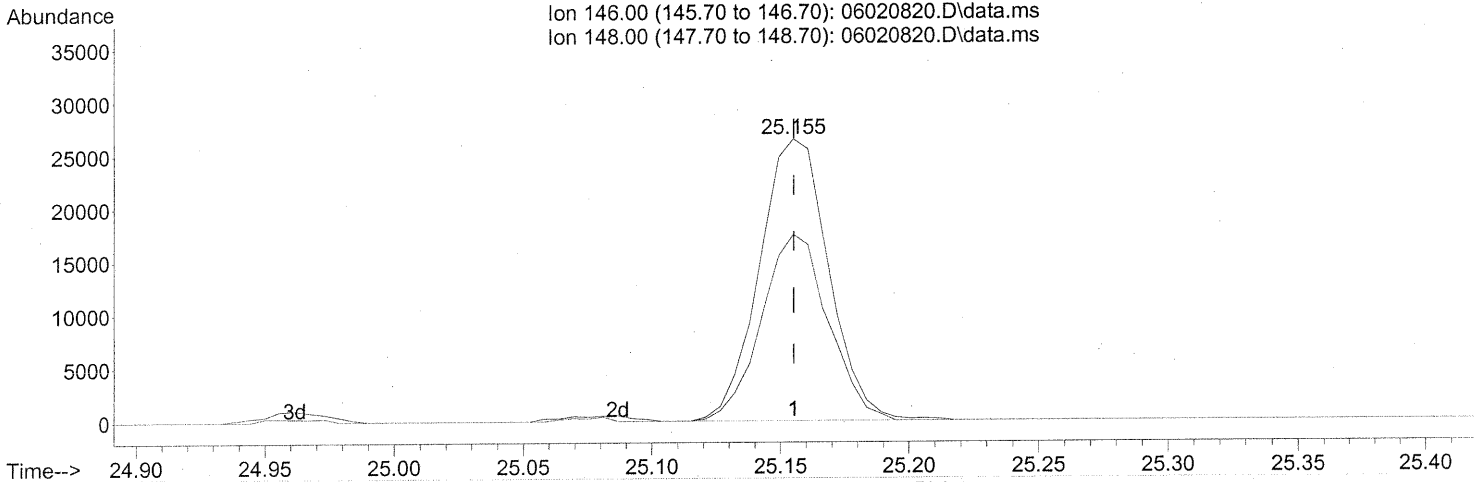
*Handwritten signature*  
 6/19/08

*Handwritten signature*  
 6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020820.D  
Acq On : 2 Jun 2008 11:08 pm  
Operator : RTB  
Sample : P0801548-015 (500mL)  
Misc : ENSR SG66B-05 (-2.8, 3.5)  
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.90ng

response 49495

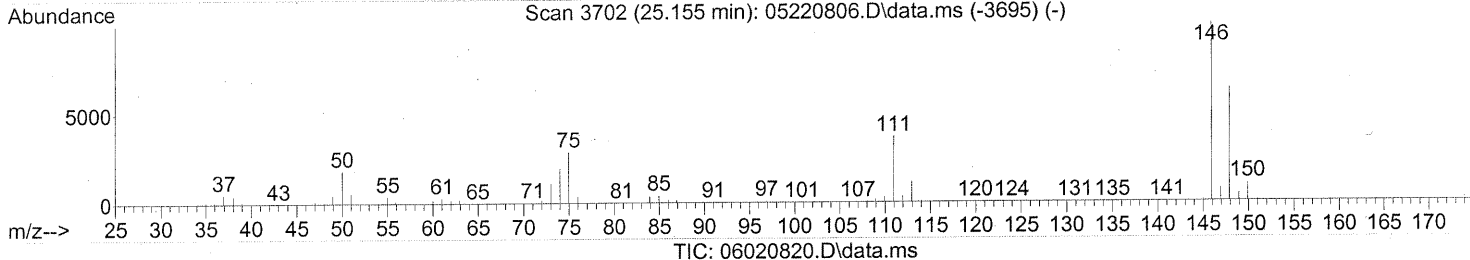
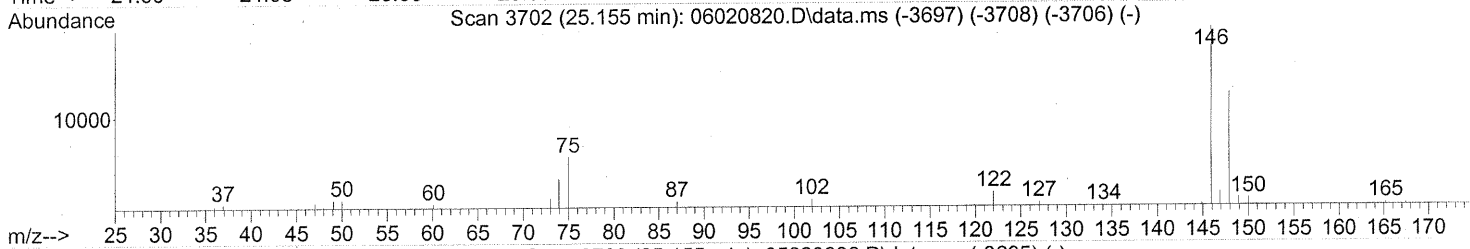
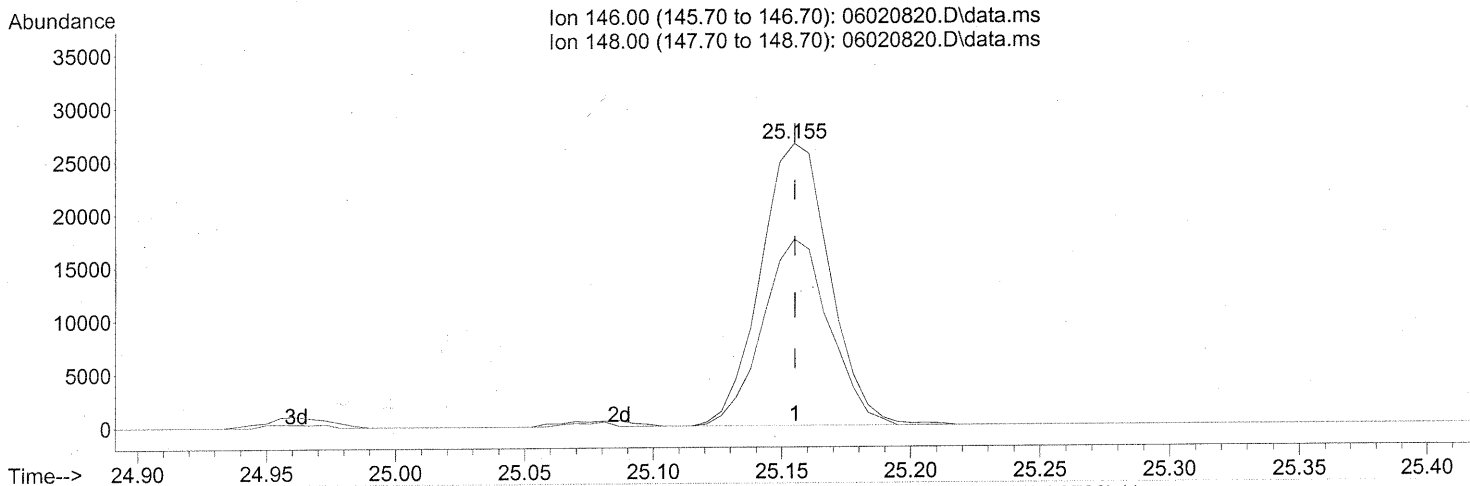
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.64
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 0.90ng

response 49495

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.64
0.00	0.00	0.00
0.00	0.00	0.00

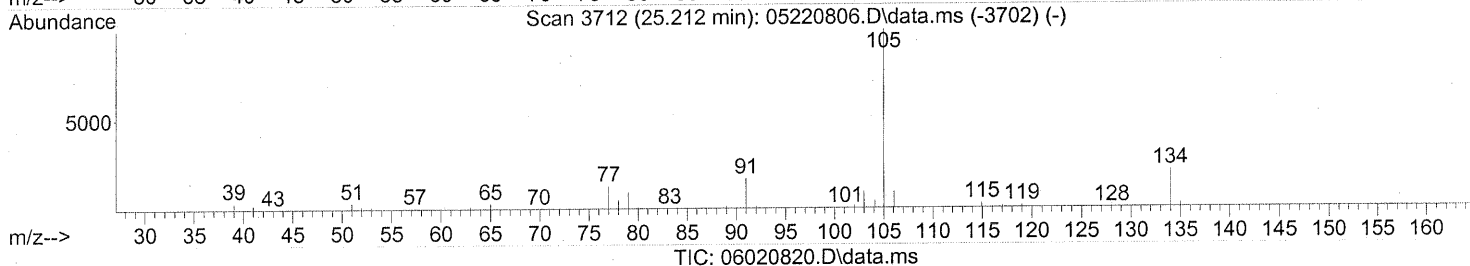
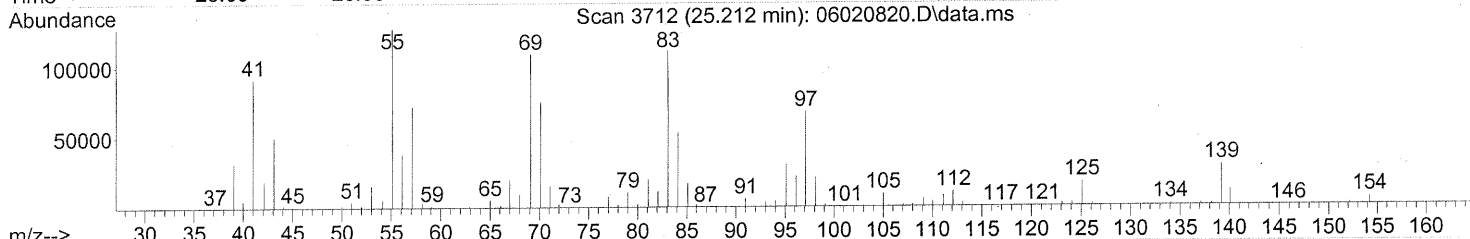
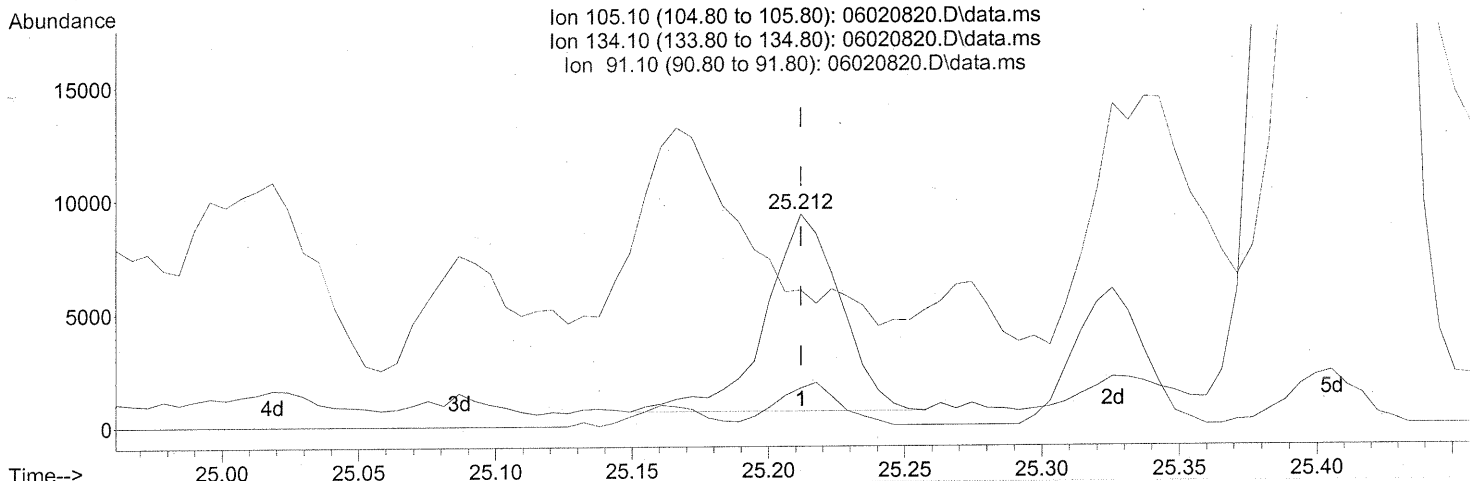
AFTER SUBTRACTION  
 P 06/08/08  
 E 6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.14ng

response 16607

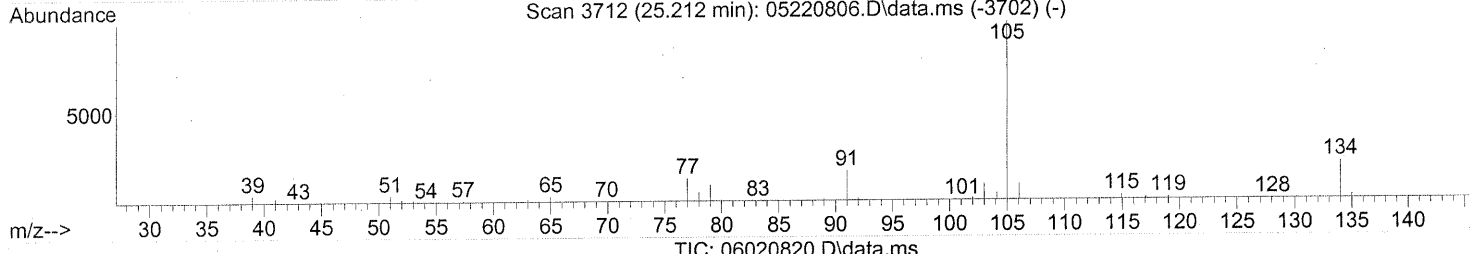
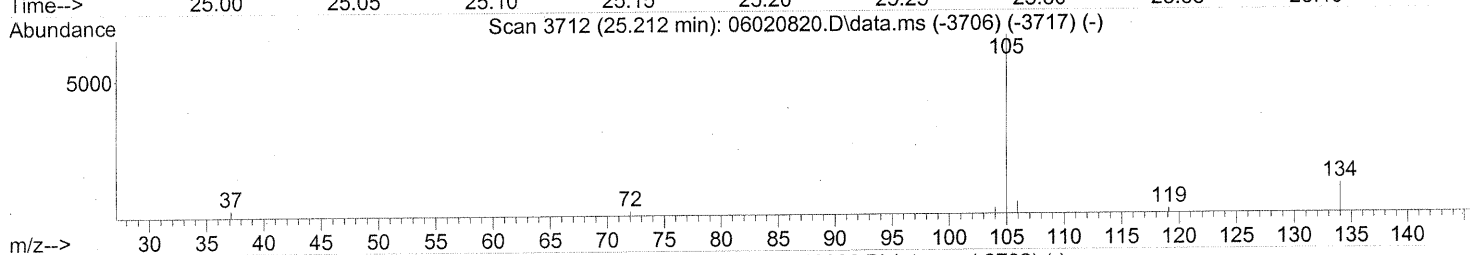
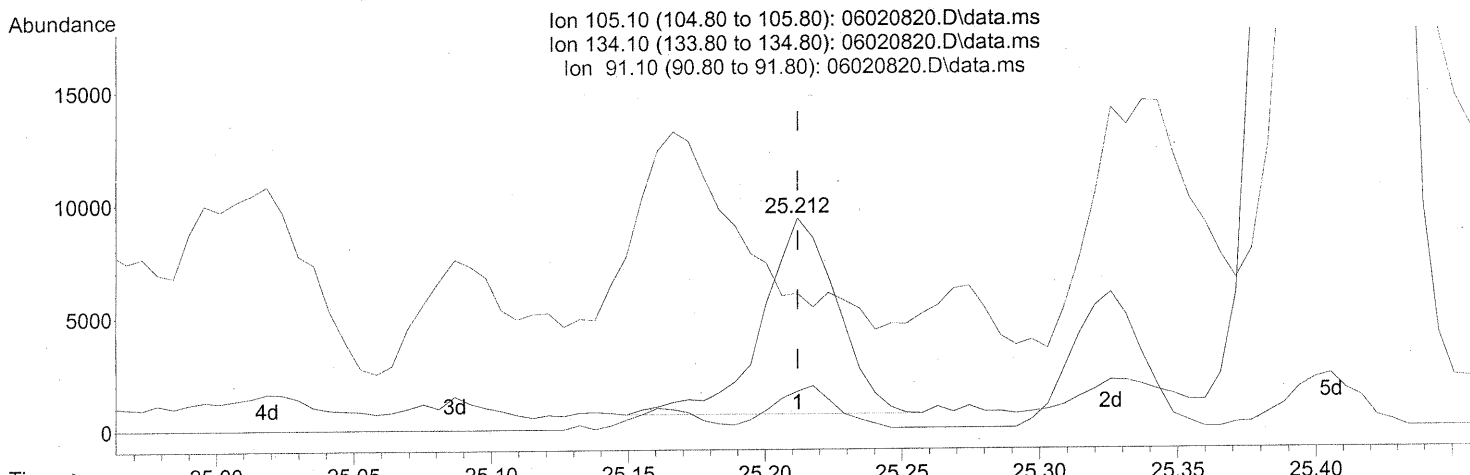
Ion	Exp%	Act%
105.10	100	100
134.10	20.90	17.75
91.10	14.60	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(87) sec-Butylbenzene (T)

25.212min (-0.000) 0.14ng

response 16607

Ion	Exp%	Act%
105.10	100	100
134.10	20.90	17.75
91.10	14.60	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

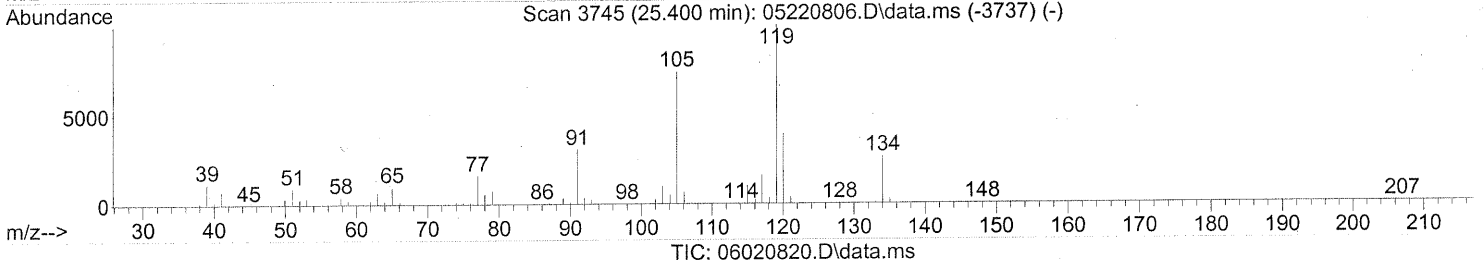
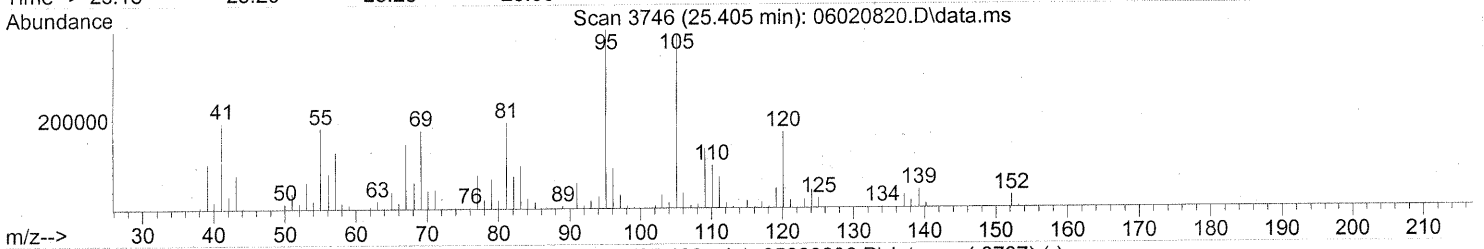
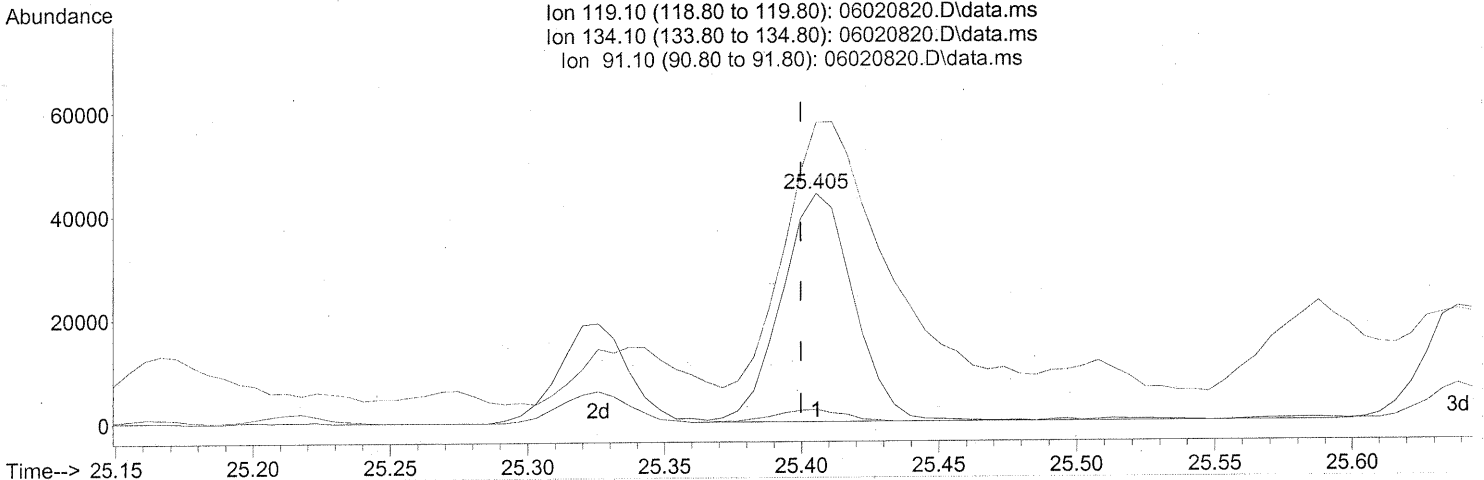
6/8/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.405min (+0.006) 0.84ng

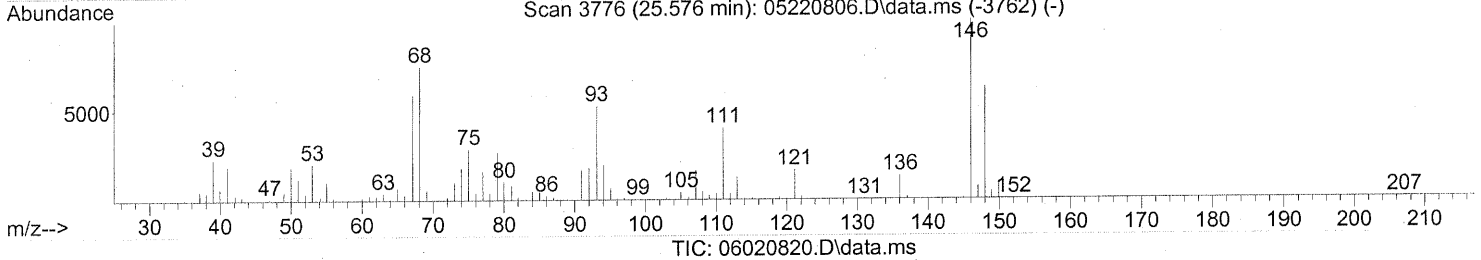
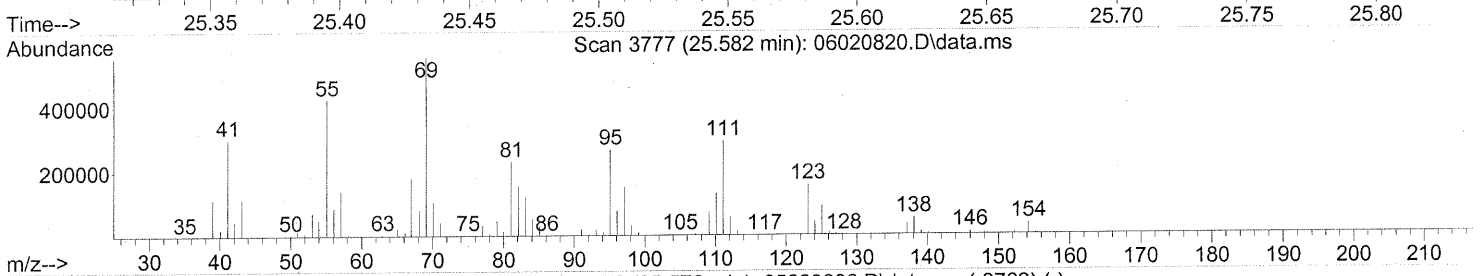
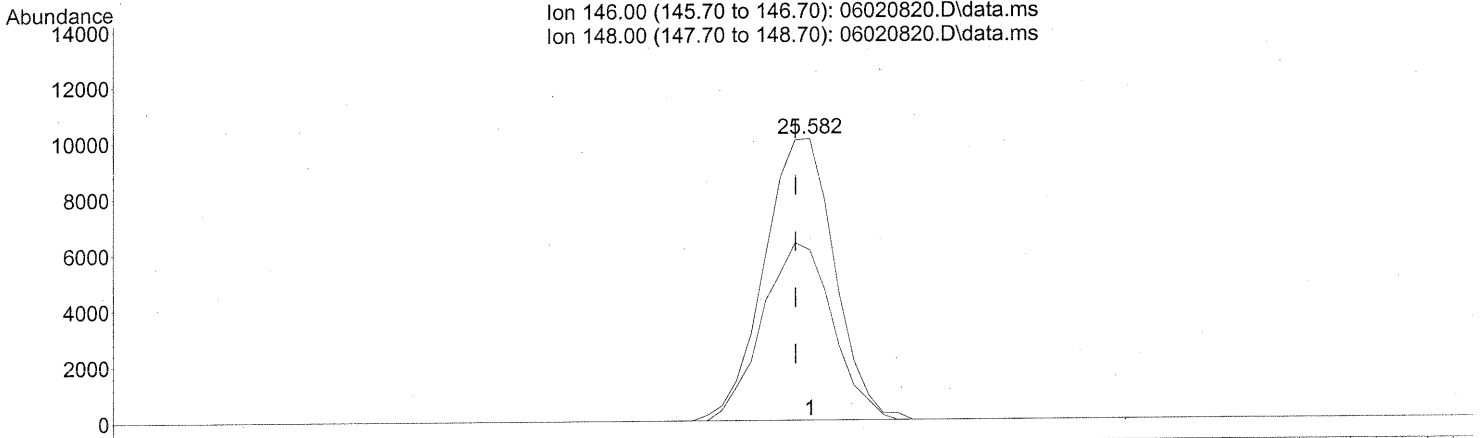
response 80127

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	5.17#
91.10	27.10	182.74#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.582min (+0.006) 0.35ng

response 19046

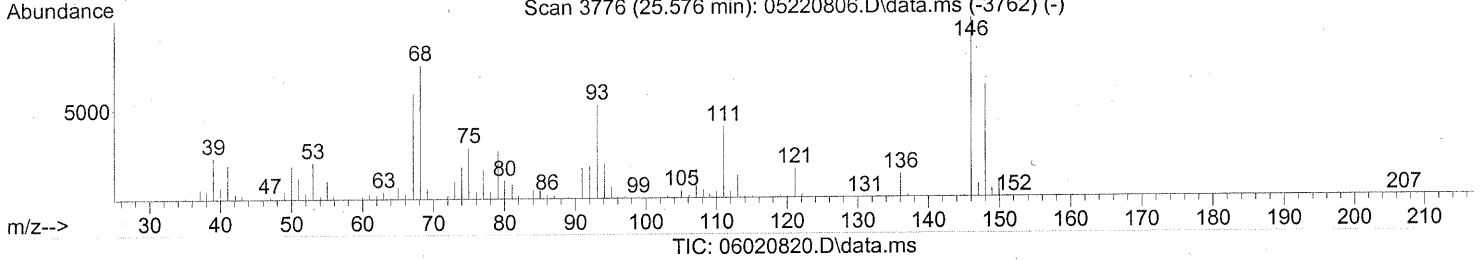
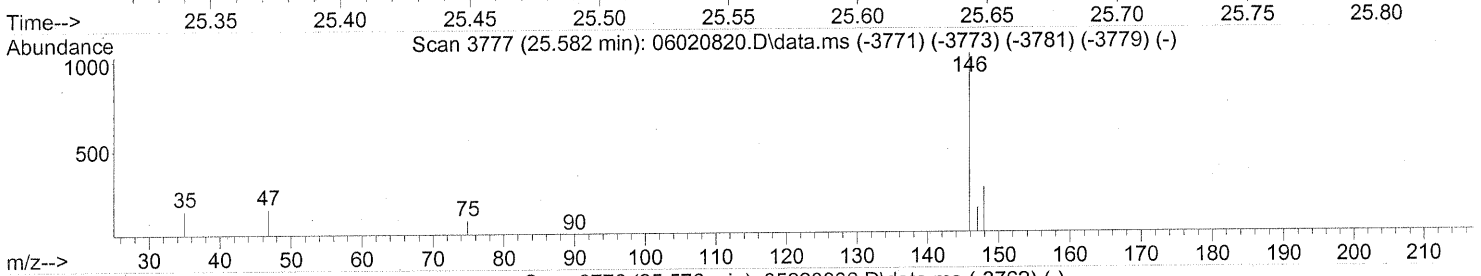
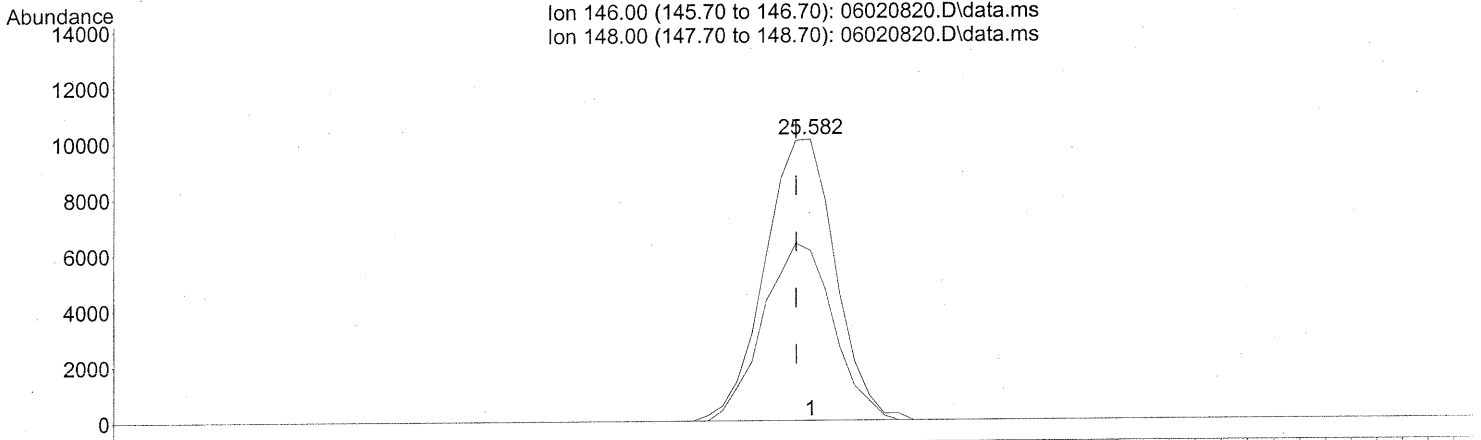
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.89
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 14:16:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(90) 1,2-Dichlorobenzene (T)

25.582min (+0.006) 0.35ng

response 19046

Ion	Exp%	Act%
146.00	100	100
148.00	63.40	62.89
0.00	0.00	0.00
0.00	0.00	0.00

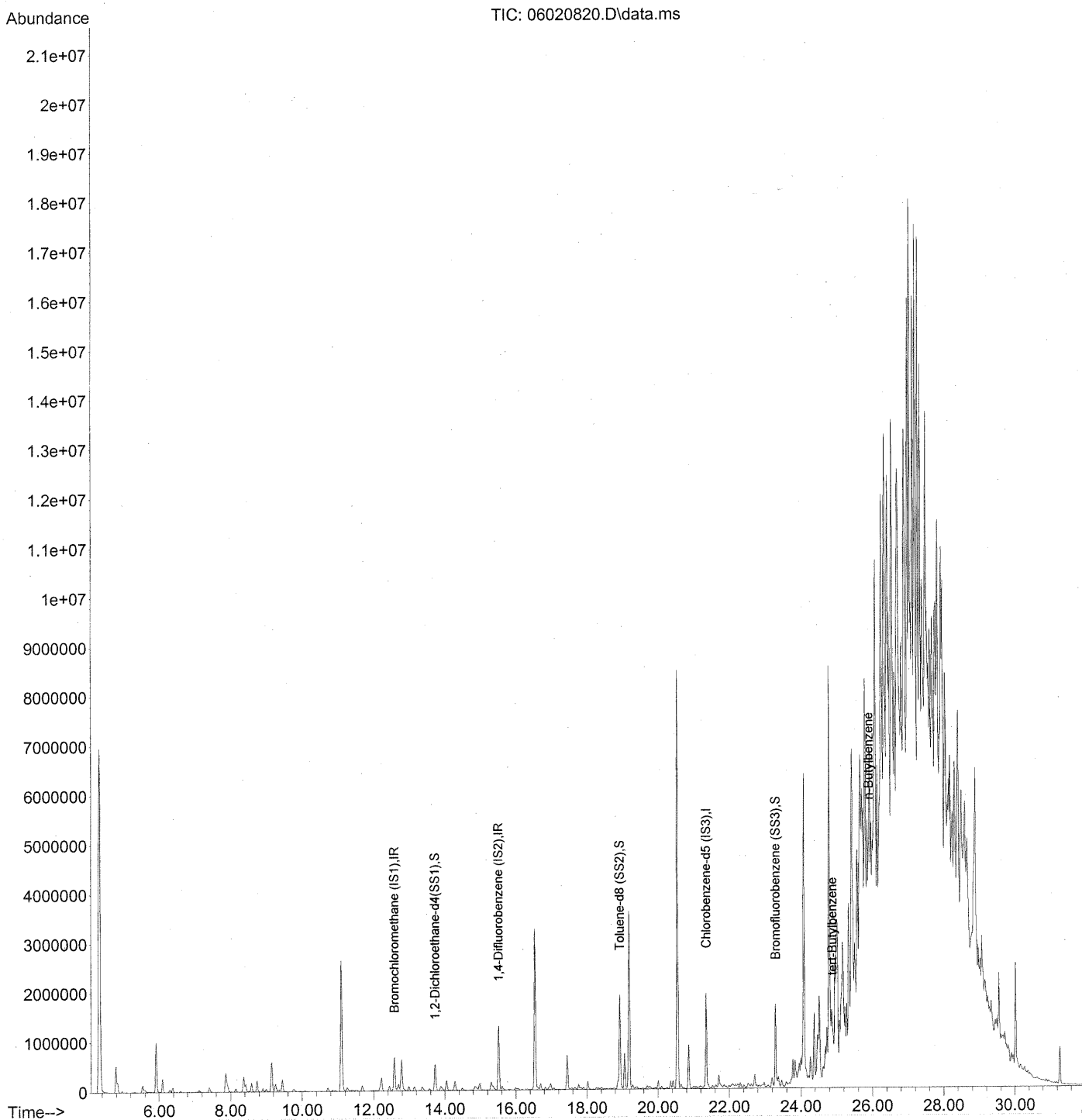
AFTER SUBTRACTION

*Handwritten signature*  
 6/6/08

*Handwritten signature*  
 6/9/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:23:02 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:23:02 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	362866	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1563667	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	737826	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	553751	22.024	ng	-0.02
Spiked Amount	25.000		Recovery =	88.08%	✓	
5) Toluene-d8 (SS2)	18.93	98	1613599	24.351	ng	-0.01
Spiked Amount	25.000		Recovery =	97.40%	✓	
6) Bromofluorobenzene (SS3)	23.29	174	658070	24.422	ng	0.00
Spiked Amount	25.000		Recovery =	97.68%	✓	
Target Compounds						
7) tert-Butylbenzene	24.88	119	10028	0.116	ng	# 64
8) n-Butylbenzene	25.90	91	251712	<del>2.627</del>	ng	# 1

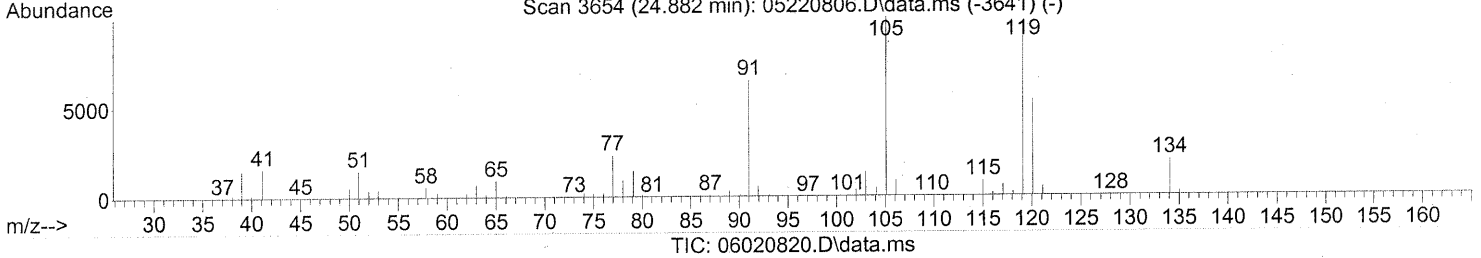
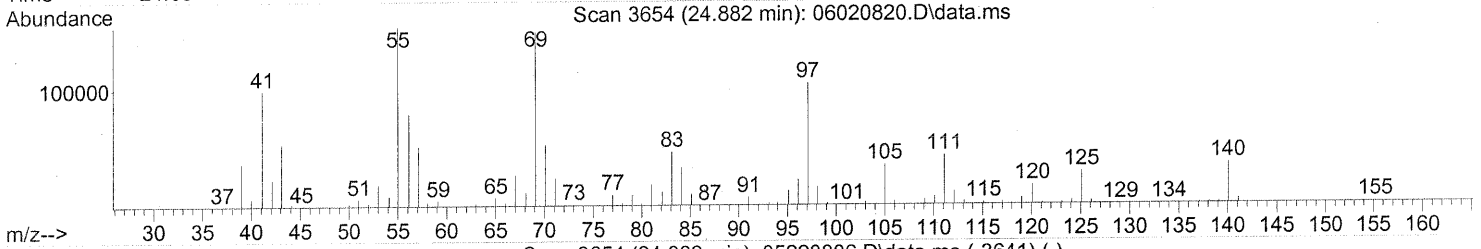
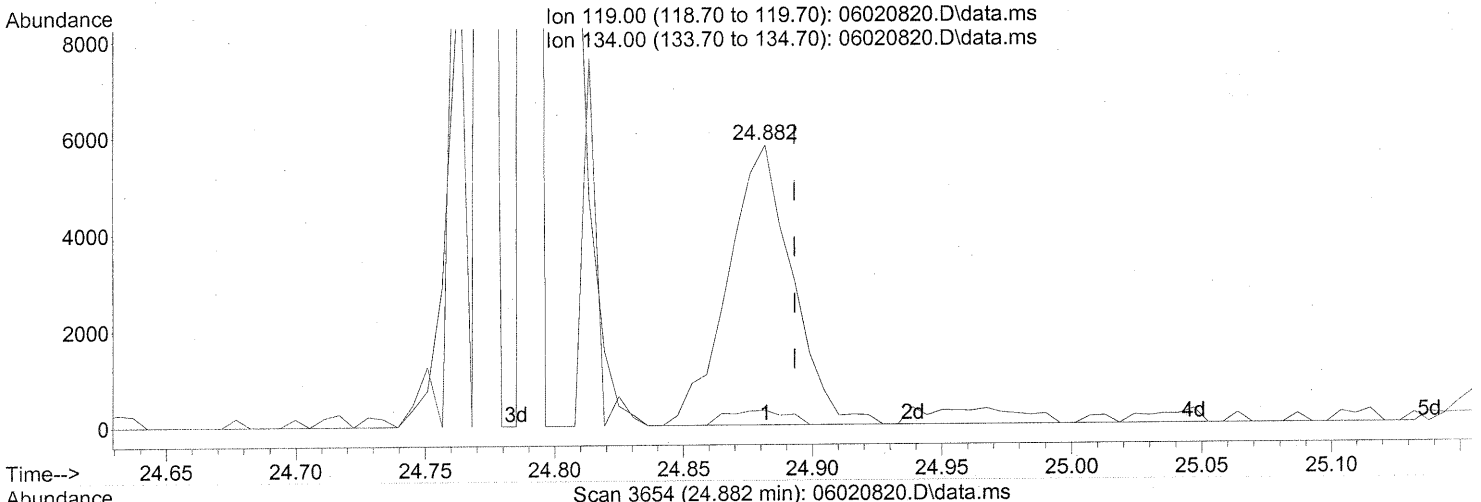
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Rob/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:23:02 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(7) tert-Butylbenzene

24.882min (-0.011) 0.12ng

response 10028

Ion	Exp%	Act%
119.00	100	100
134.00	22.10	5.03#
0.00	0.00	0.00
0.00	0.00	0.00

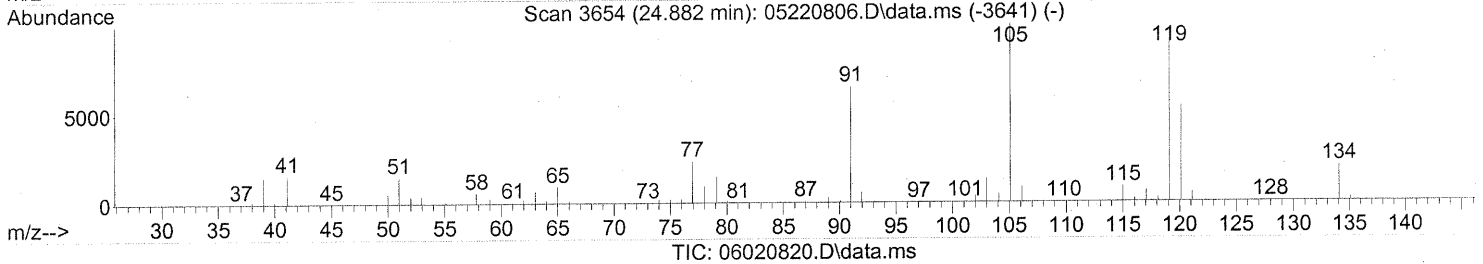
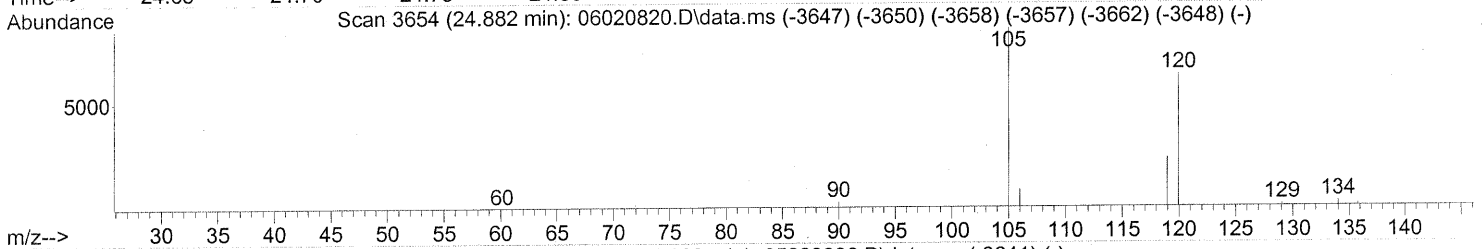
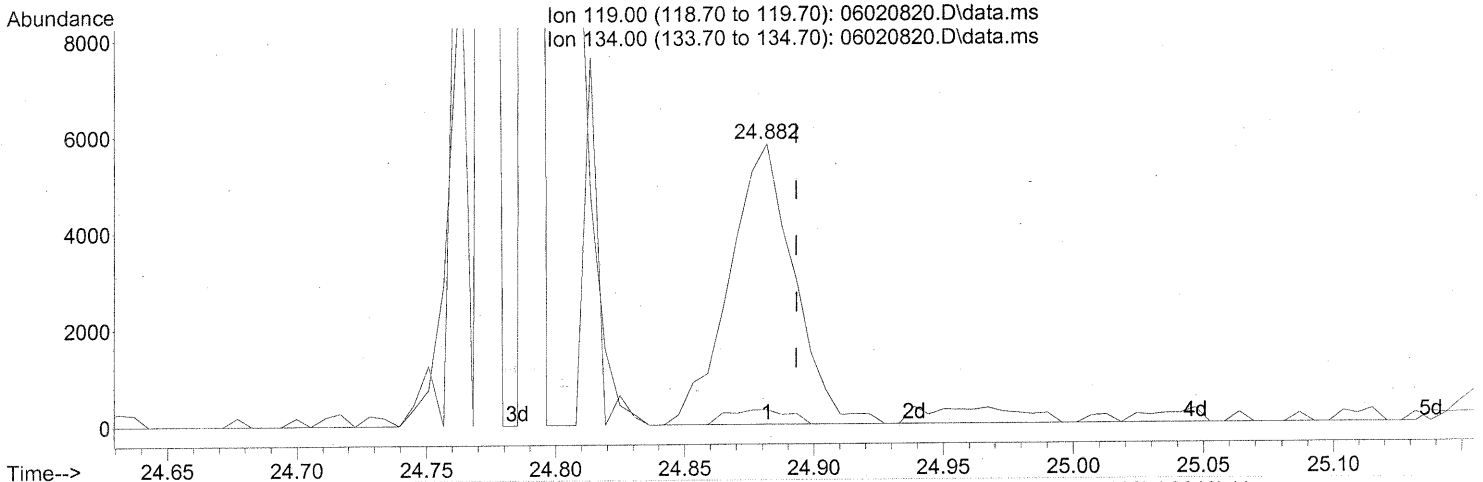
**BEFORE SUBTRACTION**



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020820.D  
 Acq On : 2 Jun 2008 11:08 pm  
 Operator : RTB  
 Sample : P0801548-015 (500mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 08 17:23:02 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



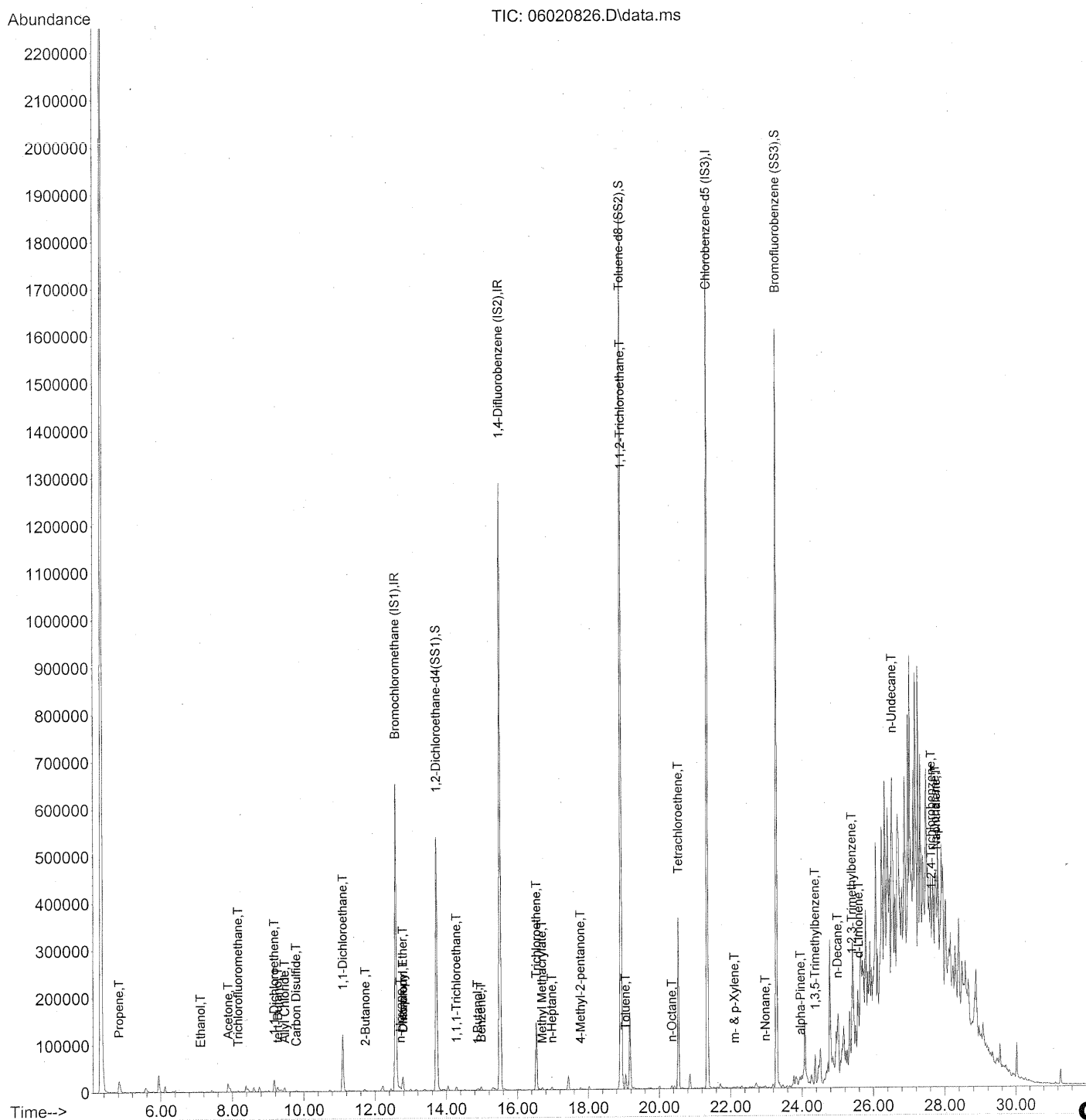
(7) tert-Butylbenzene  
 24.882min (-0.011) 0.12ng  
 response 10028

Ion	Exp%	Act%
119.00	100	100
134.00	22.10	5.03#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
 P0801548  
 E. 6/19/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020826.D  
 Acq On : 3 Jun 2008 3:13 am  
 Operator : RTB  
 Sample : P0801548-015 DIL (25mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020826.D  
 Acq On : 3 Jun 2008 3:13 am  
 Operator : RTB  
 Sample : P0801548-015 DIL (25mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	353358	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1537040	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	724867	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	559610	22.856	ng	0.00
Spiked Amount	25.000		Recovery	=	91.44%	✓
57) Toluene-d8 (SS2)	18.92	98	1595917	24.515	ng	0.00
Spiked Amount	25.000		Recovery	=	98.04%	✓
73) Bromofluorobenzene (SS3)	23.29	174	631722	23.863	ng	0.00
Spiked Amount	25.000		Recovery	=	95.44%	✓

## Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	12862	0.461	ng	# 78
3) Dichlorodifluoromethane	4.99	85	1492	N.D.		
4) Chloromethane	5.32	50	481	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	5.75	62	1307	N.D.		
7) 1,3-Butadiene	5.96	54	146	N.D.		
8) Bromomethane	0.00	94	0	N.D.		
9) Chloroethane	6.85	64	87	N.D.		
10) Ethanol	7.11	45	2707	0.146	ng	89
11) Acetonitrile	7.43	41	1081	N.D.		
12) Acrolein	7.68	56	69	N.D.		
13) Acetone	7.88	58	11092	0.583	ng	# 66
14) Trichlorofluoromethane	8.16	101	3340	0.076	ng	98
15) Isopropanol	8.34	45	1349	N.D.		
16) Acrylonitrile	8.61	53	923	N.D.		
17) 1,1-Dichloroethene	9.17	96	14790	0.762	ng	# 77
18) tert-Butanol	9.27	59	16793	0.325	ng	86
19) Methylene Chloride	9.36	84	793	N.D.		
20) Allyl Chloride	9.46	41	2840	0.100	ng	# 44
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	5883	0.073	ng	83
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	162822	4.414	ng	95
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.73	72	1543	0.111	ng	# 1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	3122	0.184	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.71	57	3368	0.089	ng	87

*6/3/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020826.D  
 Acq On : 3 Jun 2008 3:13 am  
 Operator : RTB  
 Sample : P0801548-015 DIL (25mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	31245	0.970	ng	99
34) Tetrahydrofuran	13.39	72	377	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.72	62	246	N.D.		
38) 1,1,1-Trichloroethane	14.28	97	7867	0.225	ng	91
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	2950	0.140	ng	96
41) Benzene	14.98	78	9516	0.118	ng	99
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.51	84	883	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	16.53	83	833	N.D.		
47) Trichloroethene	16.53	130	63087	2.555	ng	99
48) 1,4-Dioxane	16.51	88	309	N.D.		
49) Isooctane	16.62	57	1550	N.D.		
50) Methyl Methacrylate	16.70	100	1107	0.138	ng	# 1
51) n-Heptane	16.97	71	1418	0.066	ng	# 6
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.78	58	1582	0.074	ng	79
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	138680	6.973	ng	# 7
58) Toluene	19.05	91	29240	0.330	ng	98
59) 2-Hexanone	19.38	43	1549	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.23	43	60	N.D.		
63) n-Octane	20.36	57	1404	0.072	ng	# 73
64) Tetrachloroethene	20.54	166	139975	5.346	ng	100
65) Chlorobenzene	21.41	112	675	N.D.		
66) Ethylbenzene	21.89	91	798	N.D.		
67) m- & p-Xylene	22.11	91	2977	0.044	ng	80
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.59	104	196	N.D.		
70) o-Xylene	22.71	91	1900	N.D.		
71) n-Nonane	22.98	43	3370	0.065	ng	# 74
72) 1,1,2,2-Tetrachloroethane	22.72	83	209	N.D.		
74) Cumene	23.47	105	631	N.D.		
75) alpha-Pinene	23.96	93	3588	0.071	ng	80
76) n-Propylbenzene	24.10	91	392	N.D.		
77) 3-Ethyltoluene	24.23	105	887	N.D.		
78) 4-Ethyltoluene	24.28	105	351	N.D.		
79) 1,3,5-Trimethylbenzene	24.37	105	7418	0.085	ng	98

7/06/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020826.D  
 Acq On : 3 Jun 2008 3:13 am  
 Operator : RTB  
 Sample : P0801548-015 DIL (25mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.58	118	107	N.D.		
81) 2-Ethyltoluene	24.61	105	2650	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2693	N.D.		
83) n-Decane	25.00	57	10968	0.224	ng #	74
84) Benzyl Chloride	25.01	91	626	N.D.		
85) 1,3-Dichlorobenzene	25.16	146	2017	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	2017	N.D.		
87) sec-Butylbenzene	25.21	105	705	N.D.		
88) p-Isopropyltoluene	25.41	119	3405	N.D.		
89) 1,2,3-Trimethylbenzene	25.40	105	29911	0.343	ng	86
90) 1,2-Dichlorobenzene	25.57	146	930	N.D.		
91) d-Limonene	25.58	68	7651	0.216	ng #	53
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.53	57	52078	1.016	ng #	63
94) 1,2,4-Trichlorobenzene	27.63	180	2428	0.063	ng #	12
95) Naphthalene	27.78	128	5955	0.051	ng	50
96) n-Dodecane	27.74	57	58678	1.151	ng	72
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

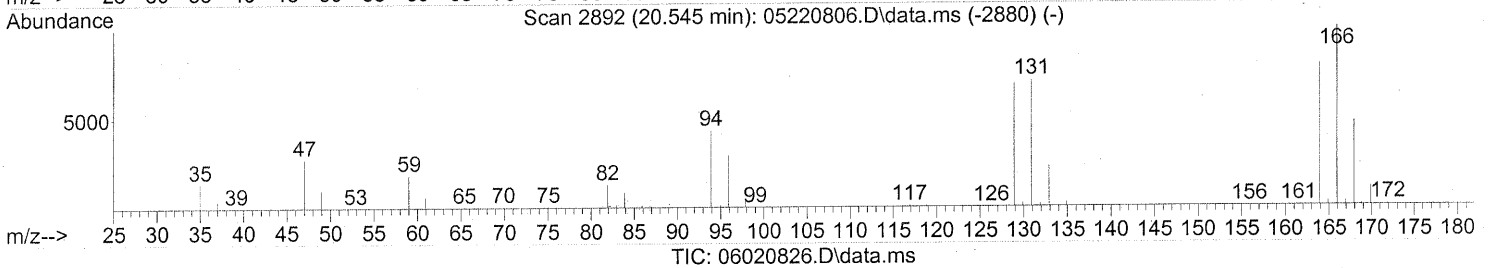
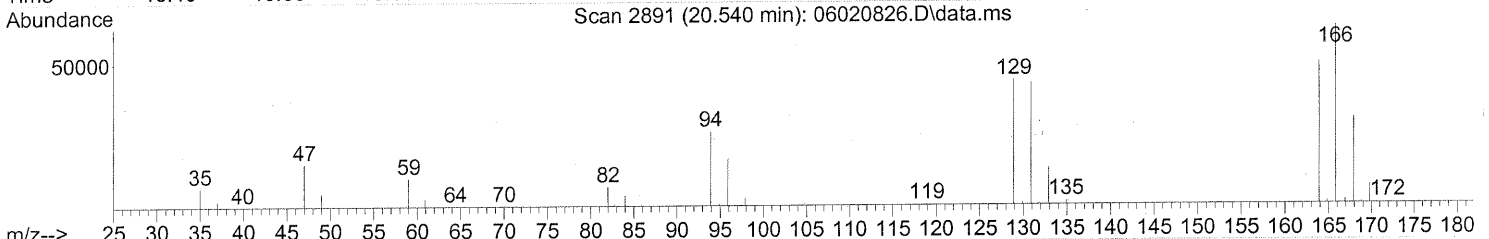
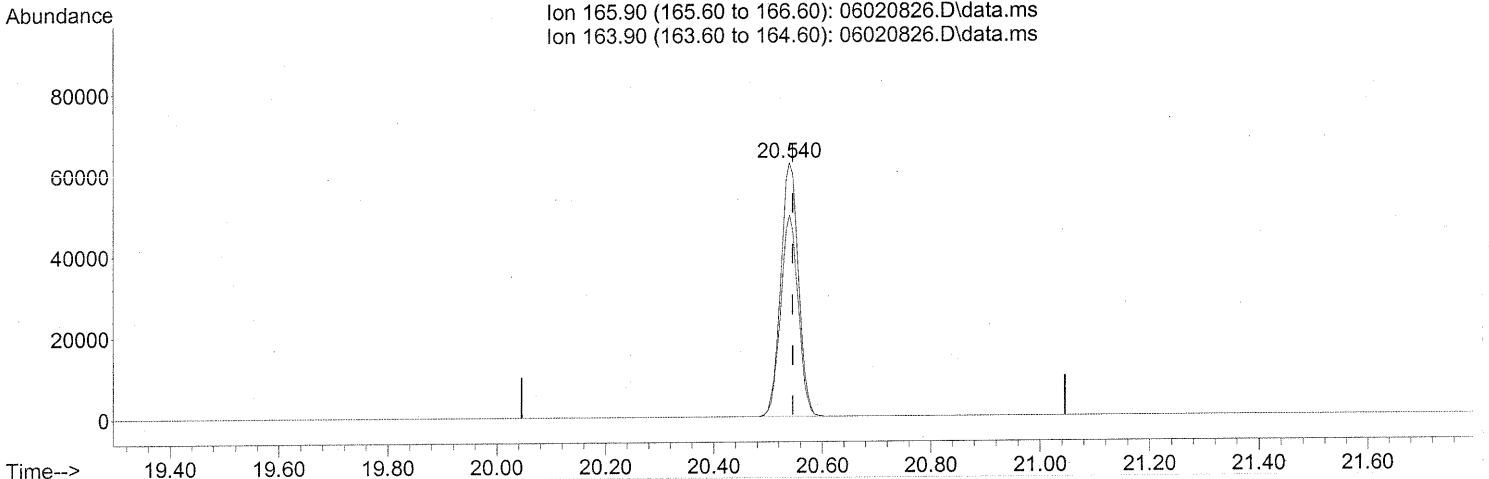
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*fac/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020826.D  
 Acq On : 3 Jun 2008 3:13 am  
 Operator : RTB  
 Sample : P0801548-015 DIL (25mL)  
 Misc : ENSR SG66B-05 (-2.8, 3.5)  
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 03 10:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 5.35ng

response 139975

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	78.27
0.00	0.00	0.00
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00553

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	0.89	0.089	0.37	0.18	0.018	
74-87-3	Chloromethane	ND	0.18	0.089	ND	0.086	0.043	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.89	0.089	ND	0.13	0.013	
75-01-4	Vinyl Chloride	ND	0.18	0.089	ND	0.070	0.035	
74-83-9	Bromomethane	ND	0.18	0.089	ND	0.046	0.023	
75-00-3	Chloroethane	0.14	0.18	0.089	0.053	0.067	0.034	J
64-17-5	Ethanol	5.5	8.9	0.089	2.9	4.7	0.047	J
67-64-1	Acetone	39	8.9	0.13	16	3.7	0.055	B
75-69-4	Trichlorofluoromethane	0.98	0.18	0.089	0.17	0.032	0.016	
107-13-1	Acrylonitrile	ND	0.89	0.12	ND	0.41	0.057	
75-35-4	1,1-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.70	0.89	0.13	0.23	0.29	0.043	J
75-09-2	Methylene Chloride	0.19	0.89	0.089	0.054	0.26	0.026	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.18	0.089	ND	0.057	0.028	
76-13-1	Trichlorotrifluoroethane	0.45	0.18	0.10	0.058	0.023	0.013	
75-15-0	Carbon Disulfide	32	0.89	0.21	10	0.29	0.069	
156-60-5	trans-1,2-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
75-34-3	1,1-Dichloroethane	ND	0.18	0.089	ND	0.044	0.022	
1634-04-4	Methyl tert-Butyl Ether	ND	0.18	0.089	ND	0.049	0.025	
108-05-4	Vinyl Acetate	16	8.9	0.28	4.4	2.5	0.081	
78-93-3	2-Butanone (MEK)	5.6	0.89	0.089	1.9	0.30	0.030	
156-59-2	cis-1,2-Dichloroethene	ND	0.18	0.089	ND	0.045	0.022	
108-20-3	Diisopropyl Ether	ND	0.89	0.11	ND	0.21	0.025	
67-66-3	Chloroform	0.83	0.18	0.11	0.17	0.036	0.022	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CM

Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00553

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.89	0.091	ND	0.21	0.022	
107-06-2	1,2-Dichloroethane	ND	0.18	0.089	ND	0.044	0.022	
71-55-6	1,1,1-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
71-43-2	<b>Benzene</b>	<b>4.1</b>	0.18	0.089	<b>1.3</b>	0.056	0.028	
56-23-5	<b>Carbon Tetrachloride</b>	<b>0.32</b>	0.18	0.089	<b>0.051</b>	0.028	0.014	
994-05-8	tert-Amyl Methyl Ether	ND	0.89	0.089	ND	0.21	0.021	
78-87-5	1,2-Dichloropropane	ND	0.18	0.089	ND	0.039	0.019	
75-27-4	Bromodichloromethane	ND	0.18	0.089	ND	0.027	0.013	
79-01-6	<b>Trichloroethene</b>	<b>0.16</b>	0.18	0.089	<b>0.029</b>	0.033	0.017	<b>J</b>
123-91-1	<b>1,4-Dioxane</b>	<b>0.49</b>	0.89	0.11	<b>0.14</b>	0.25	0.030	<b>J</b>
80-62-6	<b>Methyl Methacrylate</b>	<b>0.14</b>	0.89	0.13	<b>0.034</b>	0.22	0.033	<b>J</b>
142-82-5	<b>n-Heptane</b>	<b>0.16</b>	0.89	0.11	<b>0.038</b>	0.22	0.028	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.89	0.093	ND	0.20	0.020	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.89</b>	0.89	0.10	<b>0.22</b>	0.22	0.024	
10061-02-6	trans-1,3-Dichloropropene	ND	0.89	0.11	ND	0.20	0.025	
79-00-5	1,1,2-Trichloroethane	ND	0.18	0.089	ND	0.033	0.016	
108-88-3	<b>Toluene</b>	<b>5.1</b>	0.89	0.089	<b>1.4</b>	0.24	0.024	
591-78-6	<b>2-Hexanone</b>	<b>0.34</b>	0.89	0.14	<b>0.083</b>	0.22	0.033	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.18	0.12	ND	0.021	0.014	
106-93-4	1,2-Dibromoethane	ND	0.18	0.096	ND	0.023	0.013	
111-65-9	n-Octane	ND	0.89	0.089	ND	0.19	0.019	
127-18-4	<b>Tetrachloroethene</b>	<b>0.47</b>	0.18	0.089	<b>0.069</b>	0.026	0.013	
108-90-7	Chlorobenzene	ND	0.18	0.091	ND	0.039	0.020	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

**968**



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG50B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-016

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00553

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.62	0.89	0.11	0.14	0.20	0.025	J
179601-23-1	m,p-Xylenes	2.3	0.89	0.23	0.52	0.20	0.053	
75-25-2	Bromoform	ND	0.89	0.14	ND	0.086	0.013	
100-42-5	Styrene	0.20	0.89	0.14	0.047	0.21	0.032	J
95-47-6	o-Xylene	0.72	0.89	0.11	0.17	0.20	0.026	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.18	0.11	ND	0.026	0.017	
98-82-8	Cumene	ND	0.89	0.10	ND	0.18	0.020	
103-65-1	n-Propylbenzene	ND	0.89	0.093	ND	0.18	0.019	
622-96-8	4-Ethyltoluene	0.17	0.89	0.10	0.034	0.18	0.021	J
108-67-8	1,3,5-Trimethylbenzene	0.18	0.89	0.11	0.037	0.18	0.022	J
98-83-9	alpha-Methylstyrene	0.21	0.89	0.13	0.043	0.18	0.027	J
95-63-6	1,2,4-Trimethylbenzene	1.5	0.89	0.12	0.30	0.18	0.025	
100-44-7	Benzyl Chloride	ND	0.18	0.15	ND	0.034	0.030	
541-73-1	1,3-Dichlorobenzene	ND	0.18	0.11	ND	0.030	0.018	
106-46-7	1,4-Dichlorobenzene	2.2	0.18	0.10	0.37	0.030	0.017	
135-98-8	sec-Butylbenzene	ND	0.89	0.10	ND	0.16	0.019	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.9	0.89	0.12	0.34	0.16	0.021	
95-50-1	1,2-Dichlorobenzene	ND	0.18	0.12	ND	0.030	0.020	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.89	0.14	ND	0.092	0.014	
120-82-1	1,2,4-Trichlorobenzene	ND	0.18	0.14	ND	0.024	0.018	
91-20-3	Naphthalene	0.83	0.36	0.13	0.16	0.068	0.025	
87-68-3	Hexachlorobutadiene	ND	0.18	0.16	ND	0.017	0.015	
98-06-6	tert-Butylbenzene	ND	0.36	0.089	ND	0.065	0.016	
104-51-8	n-Butylbenzene	0.61	0.36	0.089	0.11	0.065	0.016	

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

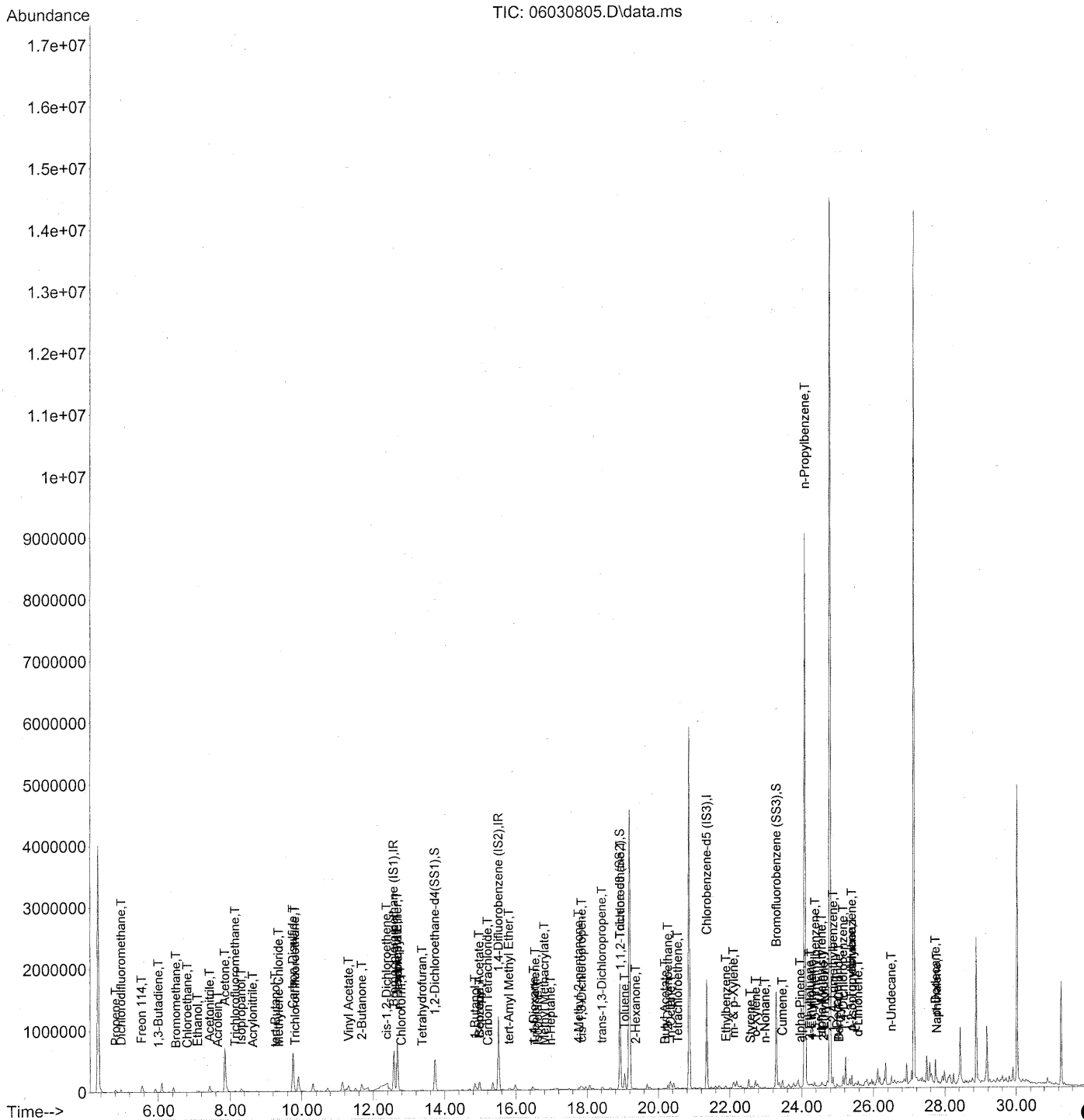
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5) ✓  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	339626	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1435581	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	687240	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4(...)	13.73	65	521009	22.140	ng	0.00
Spiked Amount				25.000		
				Recovery =	88.56%	✓
57) Toluene-d8 (SS2)	18.93	98	1472517	23.858	ng	0.00
Spiked Amount				25.000		
				Recovery =	95.44%	✓
73) Bromofluorobenzene (SS3)	23.29	174	608272	24.235	ng	0.00
Spiked Amount				25.000		
				Recovery =	96.96%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	17701	0.660	ng	# 78
3) Dichlorodifluoromethane	4.96	85	51404	1.040	ng	99
4) Chloromethane	5.28	50	1146	N.D.	✓	
5) Freon 114	5.53	135	1198	<del>0.049</del>	ng	80
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.00	54	1731	0.073	ng	# 65
8) Bromomethane	6.49	94	758	<del>0.042</del>	ng	# 68
9) Chloroethane	6.81	64	1208	0.079	ng	72
10) Ethanol	7.09	45	54725m	3.065	ng	
11) Acetonitrile	7.43	41	171526	3.322	ng	97
12) Acrolein	7.65	56	14093	1.105	ng	94
13) Acetone	7.85	58	396864	21.707	ng	# 71
14) Trichlorofluoromethane	8.14	101	23388	0.551	ng	99
15) Isopropanol	8.31	45	123896	2.125	ng	97
16) Acrylonitrile	<del>8.63</del>	53	1880	<del>0.068</del>	ng	NO, < 99
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓	
18) tert-Butanol	9.27	59	19375m	0.391	ng	
19) Methylene Chloride	9.36	84	2136	0.105	ng	# 77
20) Allyl Chloride	9.54	41	198	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	4826	0.250	ng	92
22) Carbon Disulfide	9.76	76	1382656	17.832	ng	99
23) trans-1,2-Dichloroethene	10.76	61	166	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	70	N.D.	✓	
25) Methyl tert-Butyl Ether	11.21	73	390	N.D.	✓	
26) Vinyl Acetate	11.31	86	29634	8.770	ng	# 1
27) 2-Butanone	11.68	72	42092	3.154	ng	# 1
28) cis-1,2-Dichloroethene	12.37	61	1299	<del>0.045</del>	ng	# 21
29) Diisopropyl Ether	12.68	87	3039	<del>0.186</del>	ng	# 1
30) Ethyl Acetate	12.68	61	177221	24.603	ng	85
31) n-Hexane	12.69	57	3149	0.087	ng	93

NO, <  
 6/6/08/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.79	83	14414	0.465	ng	99
34) Tetrahydrofuran	13.37	72	3005	0.236	ng #	67
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.89	62	353	N.D.	✓	
38) 1,1,1-Trichloroethane	14.28	97	701	N.D.	✓	
39) Isopropyl Acetate	14.97	61	1222	0.100	ng #	1
40) 1-Butanol	14.85	56	115898	5.873	ng	88
41) Benzene	14.97	78	173270	2.305	ng	100
42) Carbon Tetrachloride	15.21	117	5179	0.179	ng	98
43) Cyclohexane	15.47	84	104	N.D.		
44) tert-Amyl Methyl Ether	15.80	73	7251	<del>0.134</del>	ng MR	49
45) 1,2-Dichloropropane	16.19	63	391	N.D.	✓	
46) Bromodichloromethane	16.45	83	329	N.D.	✓	
47) Trichloroethene	16.54	130	2041	0.089	ng	94
48) 1,4-Dioxane	16.50	88	3903	0.275	ng	87
49) Isooctane	16.61	57	11742	0.136	ng	85
50) Methyl Methacrylate	16.80	100	590	0.079	ng	91
51) n-Heptane	16.97	71	1748	0.088	ng #	60
52) cis-1,3-Dichloropropene	17.85	75	1359	<del>0.045</del>	ng #	57
53) 4-Methyl-2-pentanone	17.77	58	9992	0.501	ng	87
54) trans-1,3-Dichloropropene	18.42	75	1522	<del>0.059</del>	ng MR	67
55) 1,1,2-Trichloroethane	18.94	97	130295	<del>7.015</del>	ng MR	8
58) Toluene	19.06	91	241957	2.884	ng	97
59) 2-Hexanone	19.37	43	11104	0.192	ng	92
60) Dibromochloromethane	19.61	129	271	N.D.	✓	
61) 1,2-Dibromoethane	20.27	107	3002	<del>0.137</del>	ng MR #	3
62) Butyl Acetate	20.19	43	5294	0.090	ng #	86
63) n-Octane	20.35	57	2275	<del>0.123</del>	ng MR	73
64) Tetrachloroethene	20.54	166	6513	0.262	ng	95
65) Chlorobenzene	21.40	112	1752	N.D.	✓	
66) Ethylbenzene	21.89	91	33505	0.348	ng	96
67) m- & p-Xylene	22.10	91	81980	1.274	ng	93
68) Bromoform	22.21	173	52	N.D.	✓	
69) Styrene	22.57	104	6524	0.113	ng #	61
70) o-Xylene	22.72	91	28054	0.404	ng	99
71) n-Nonane	22.98	43	5318	0.108	ng #	70
72) 1,1,2,2-Tetrachloroethane	22.72	83	710	N.D.	✓	
74) Cumene	23.46	105	4035	<del>0.044</del>	ng	99
75) alpha-Pinene	23.96	93	4138	0.087	ng	46
76) n-Propylbenzene	24.10	91	14127	<del>0.120</del>	ng MR #	1
77) 3-Ethyltoluene	24.22	105	15802	0.160	ng #	43
78) 4-Ethyltoluene	24.28	105	8491	0.093	ng	100
79) 1,3,5-Trimethylbenzene	24.38	105	8493	0.102	ng	92

06/08/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	5198	0.116 ng	#	82
81) 2-Ethyltoluene	24.61	105	11356	0.114 ng		94
82) 1,2,4-Trimethylbenzene	24.88	105	70730	0.838 ng		92
83) n-Decane	24.98	57	20925	0.450 ng		72
84) Benzyl Chloride	25.04	91	2415	0.043 ng	#	53
85) 1,3-Dichlorobenzene	25.08	146	527	N.D. ✓		
86) 1,4-Dichlorobenzene	25.15	146	63126	1.234 ng		99
87) sec-Butylbenzene	25.22	105	2592	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	93599	1.054 ng		98
89) 1,2,3-Trimethylbenzene	25.40	105	18898	0.229 ng	#	50
90) 1,2-Dichlorobenzene	25.58	146	607	N.D. ✓		
91) d-Limonene	25.57	68	7675	0.228 ng		87
92) 1,2-Dibromo-3-Chloropr...	26.50	157	53	N.D. ✓		
93) n-Undecane	26.50	57	55928	1.150 ng		84
94) 1,2,4-Trichlorobenzene	27.63	180	824	N.D. ✓		
95) Naphthalene	27.77	128	52278	0.469 ng		95
96) n-Dodecane	27.73	57	135523	2.803 ng		82
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D. ✓		

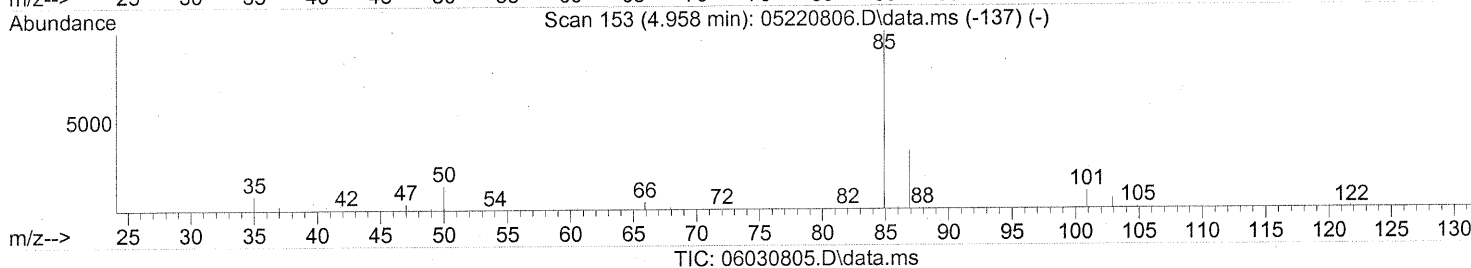
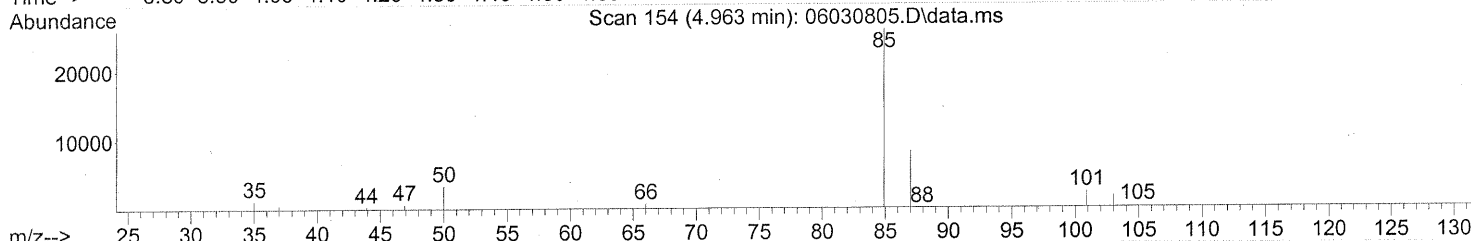
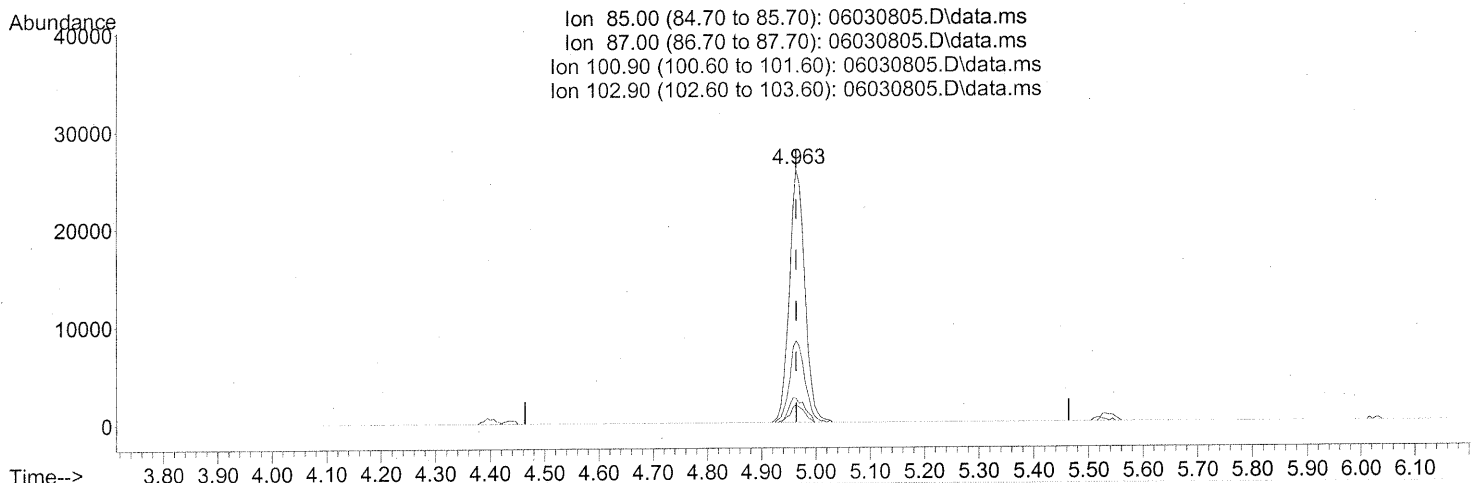
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*ESC/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.963min (-0.000) 1.04ng

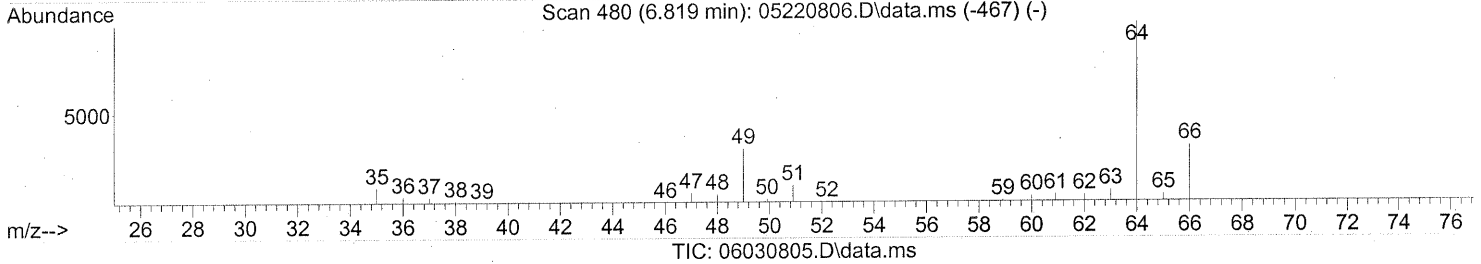
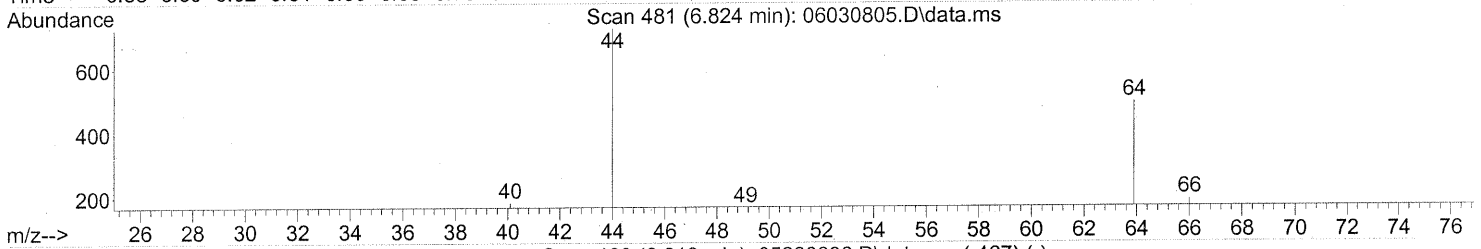
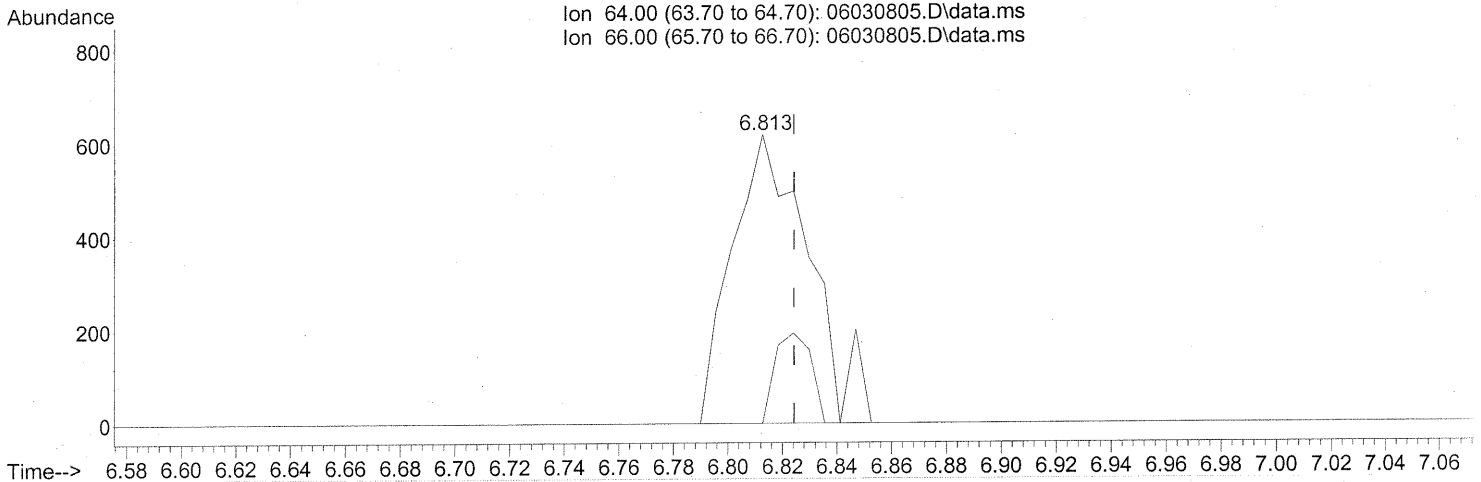
response 51404

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.20
100.90	9.30	10.10
102.90	6.00	6.28

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)

6.813min (-0.012) 0.08ng

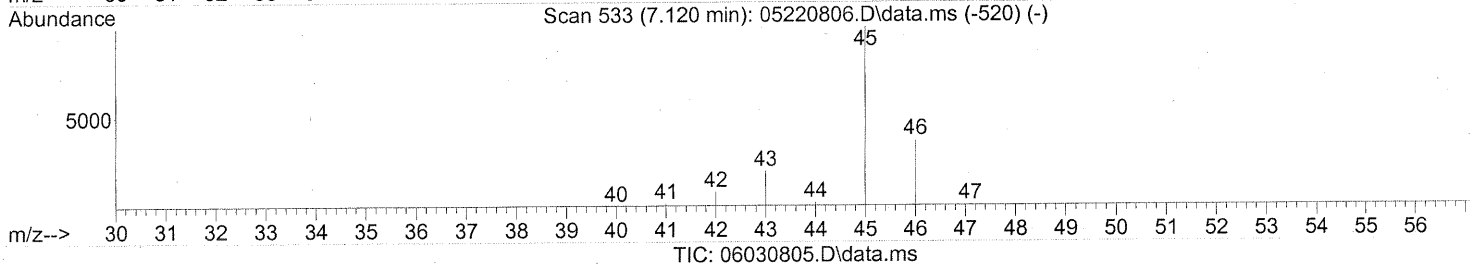
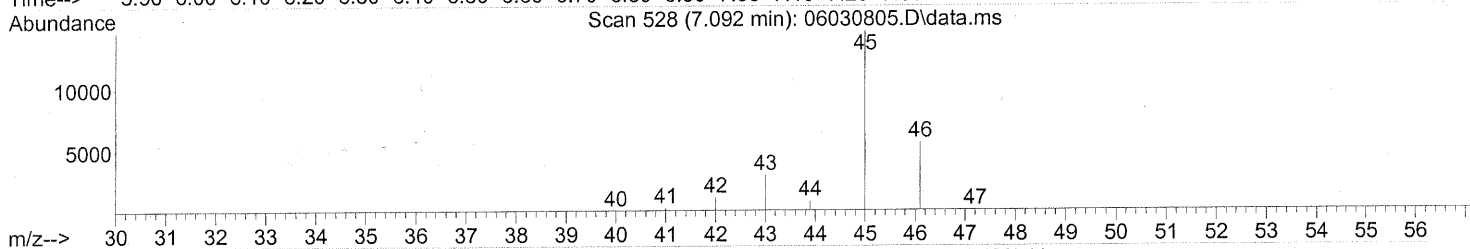
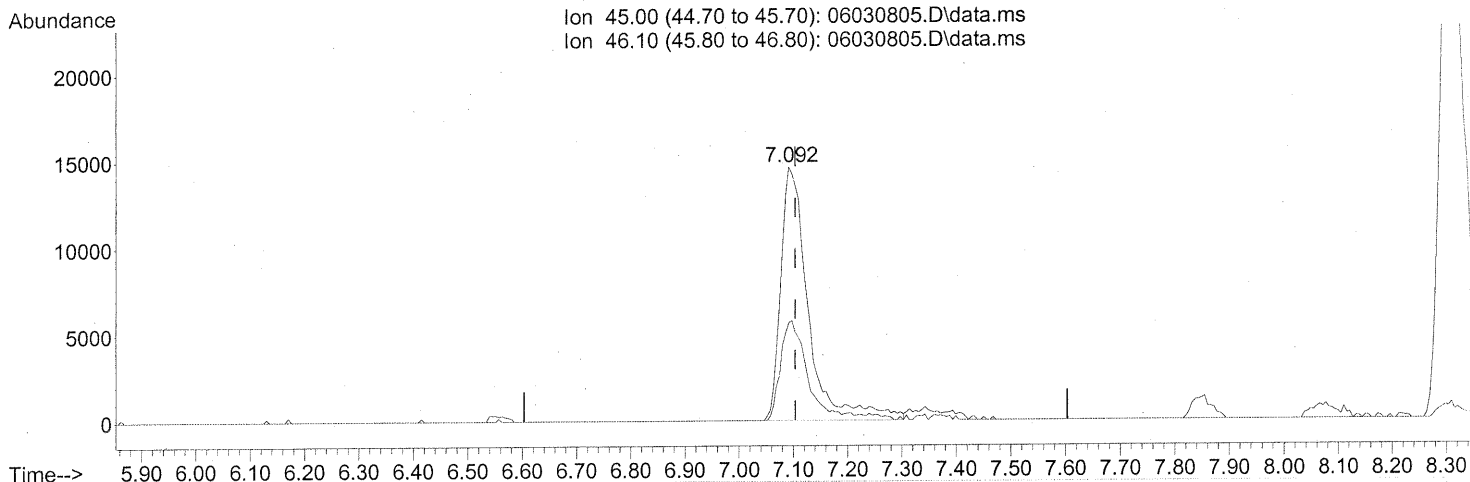
response 1208

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	14.57
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 12:59:15 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.092min (-0.012) 2.88ng  
response 51505  
Ion Exp% Act%  
45.00 100 100  
46.10 41.00 40.32  
0.00 0.00 0.00  
0.00 0.00 0.00

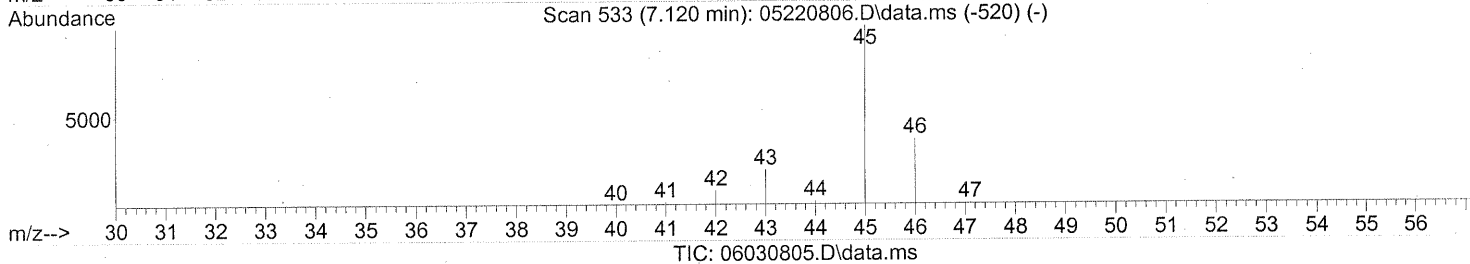
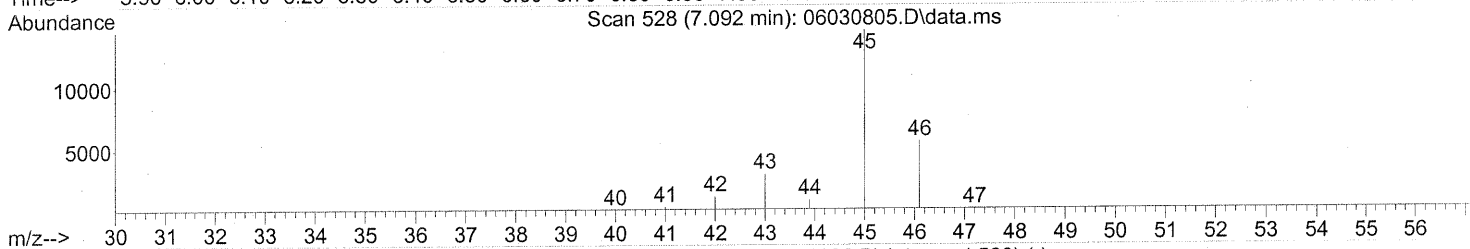
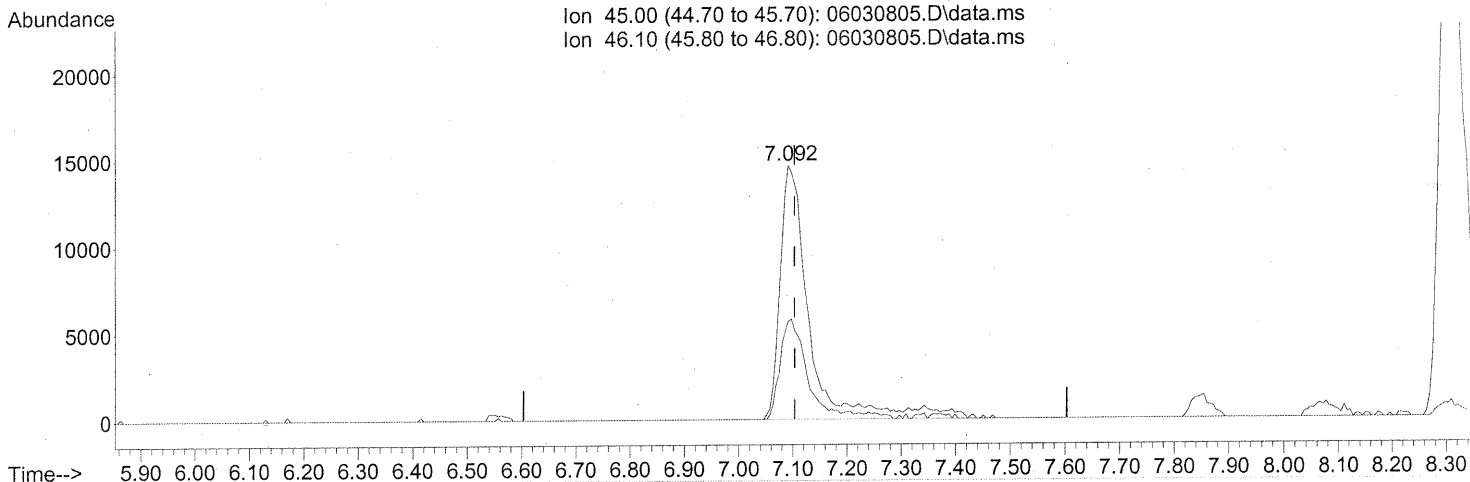
TAILING



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 12:59:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.092min (-0.012) 3.06ng m  
 response 54725

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.94
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING

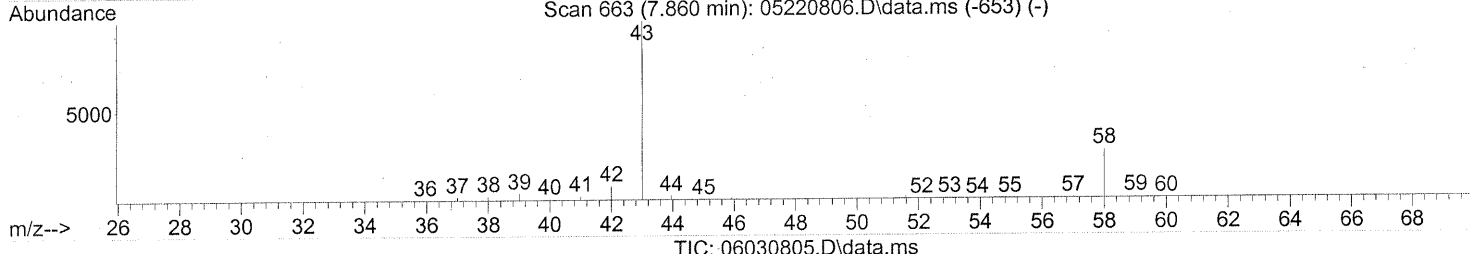
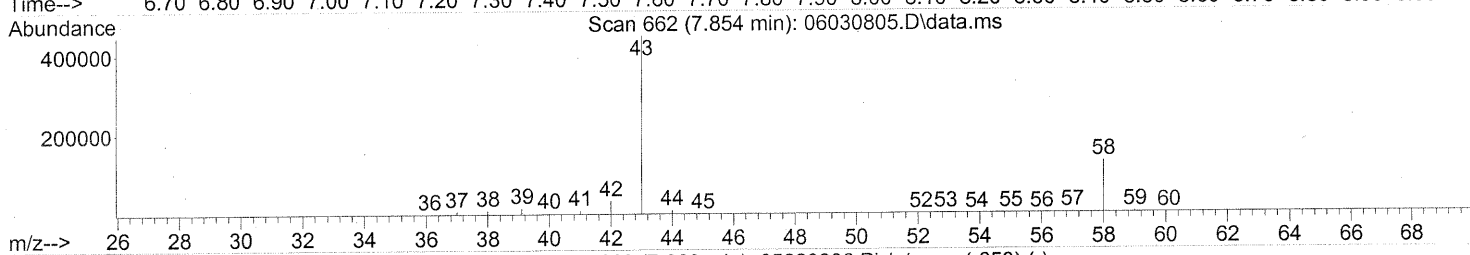
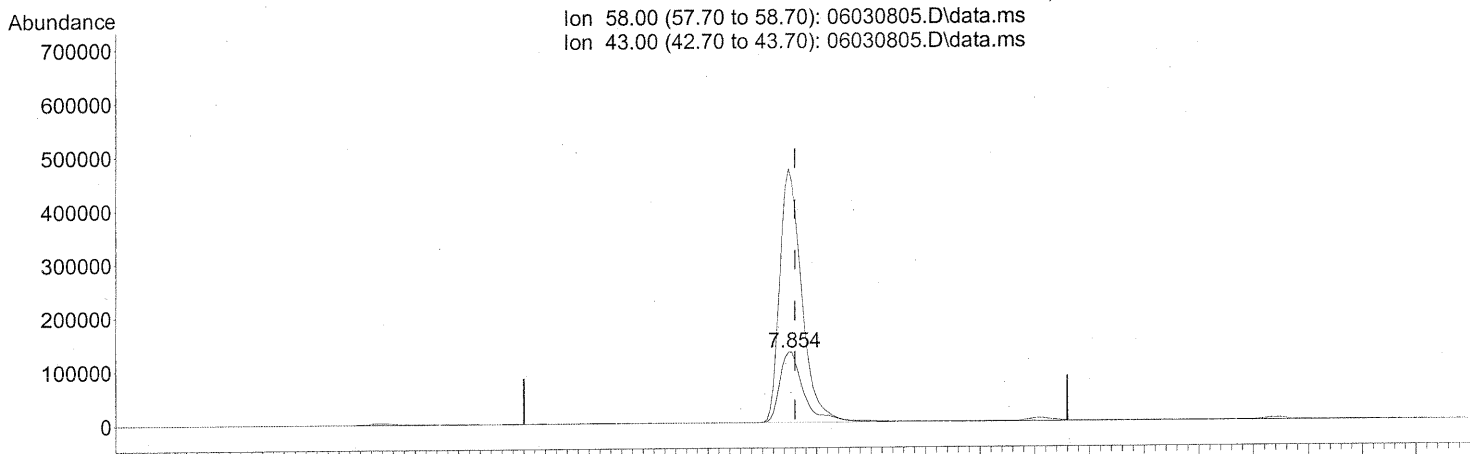
6/18/08

6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



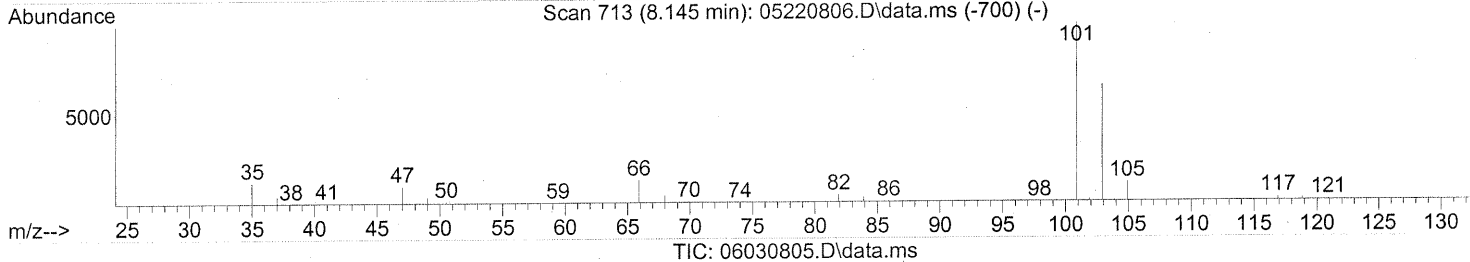
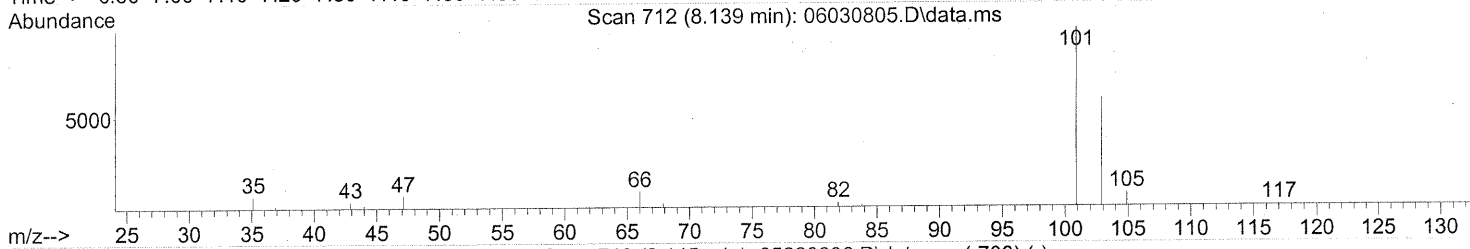
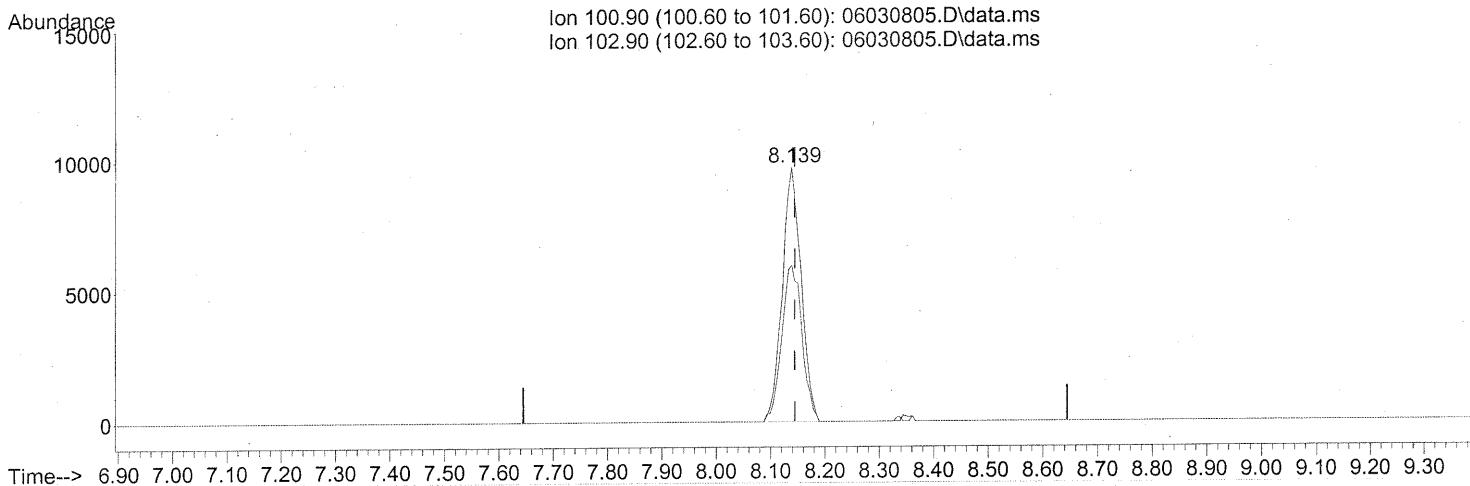
(13) Acetone (T)  
 7.854min (-0.006) 21.71ng  
 response 396864

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	337.94#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 0.55ng

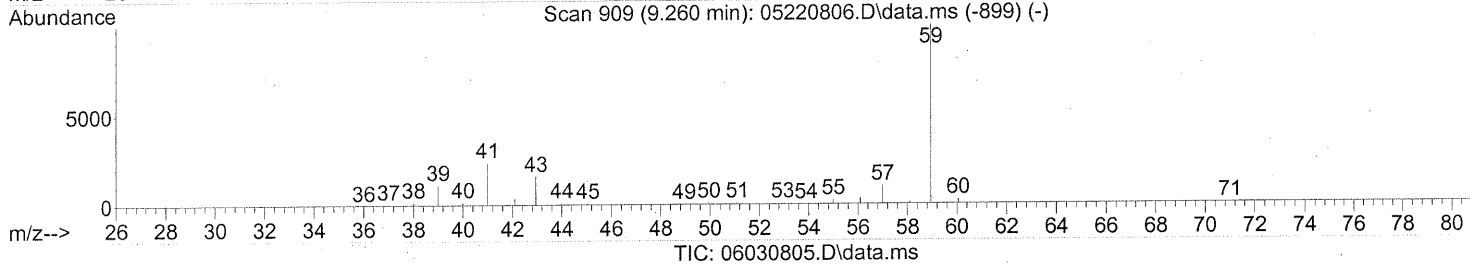
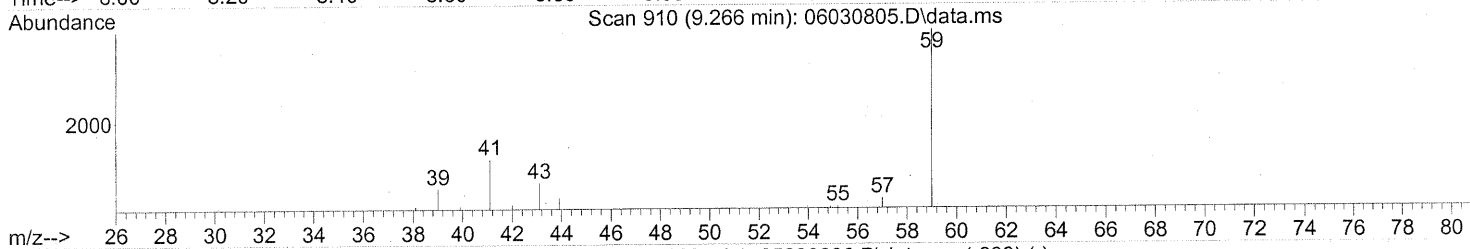
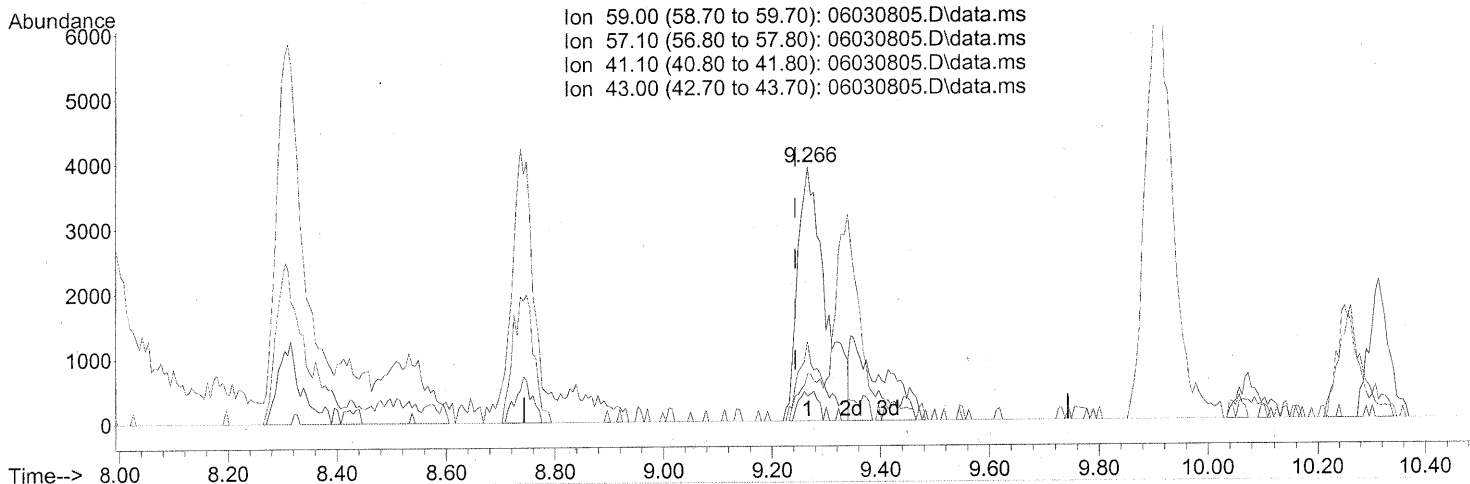
response 23388

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	65.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 12:59:15 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15. (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.266min (+0.023) 0.28ng  
response 13954

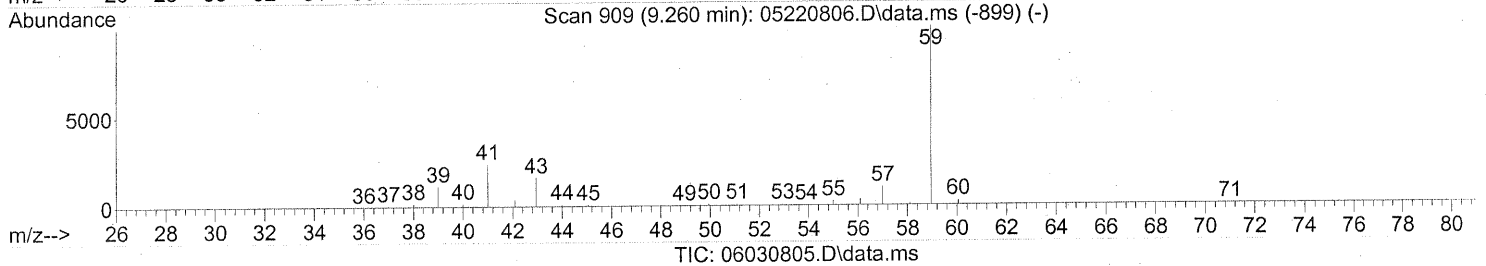
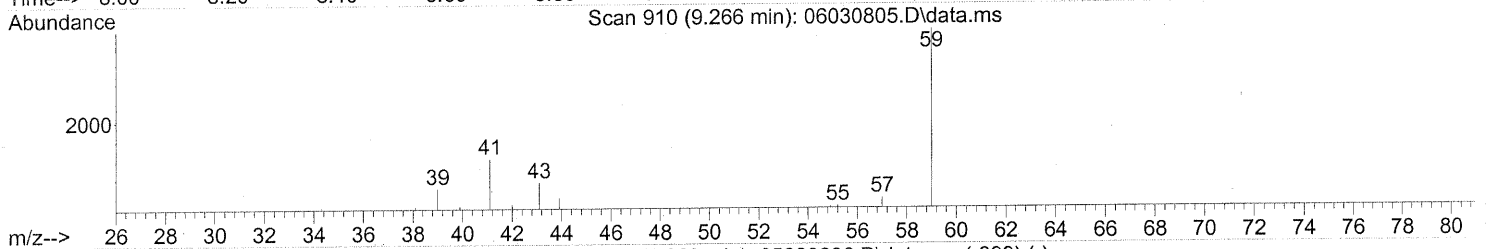
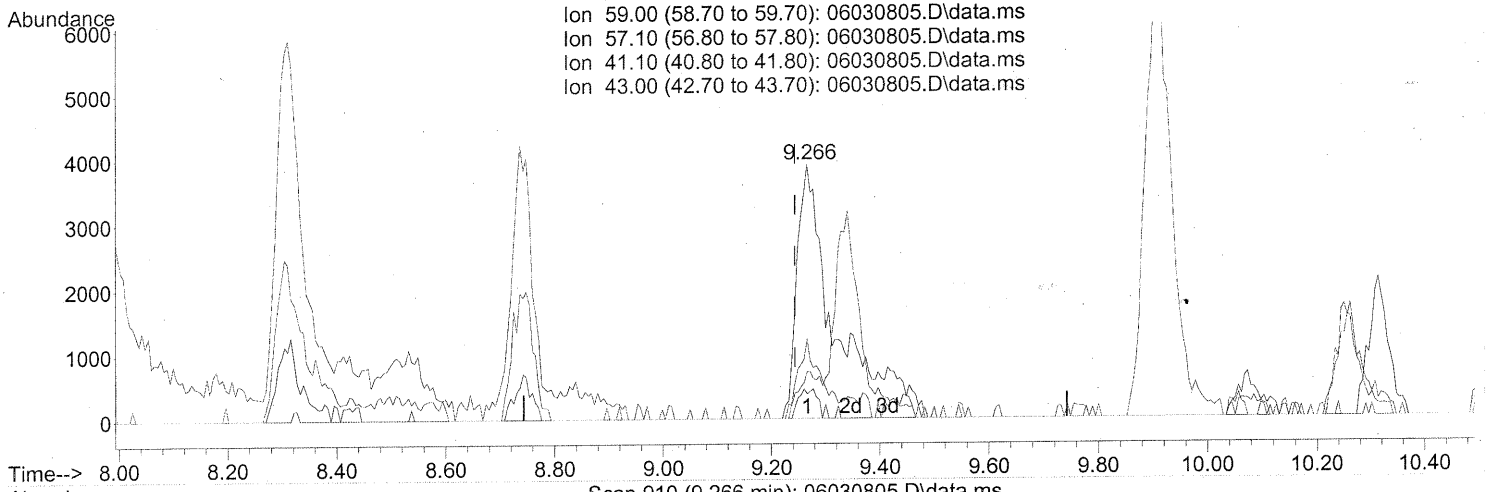
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	8.23
41.10	20.10	25.38
43.00	12.30	14.76

TAILING / SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 03 12:59:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.266min (+0.023) 0.39ng m  
 response 19375

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.93
41.10	20.10	18.28
43.00	12.30	10.63

INT. THE WHOLE PEAK

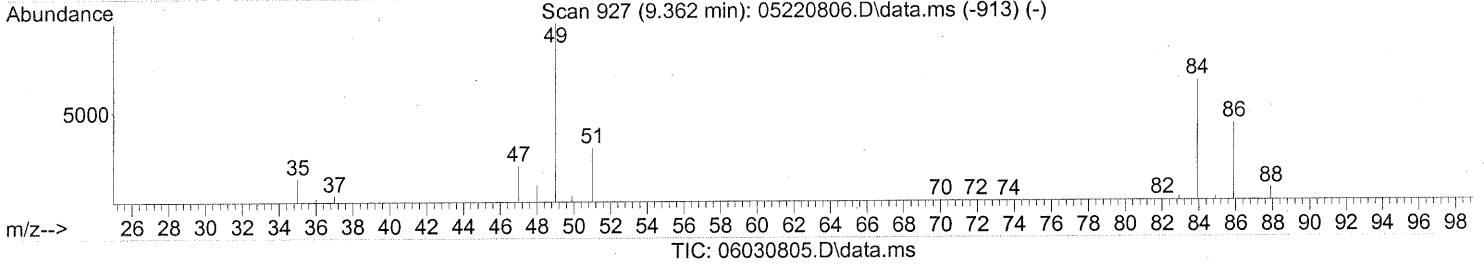
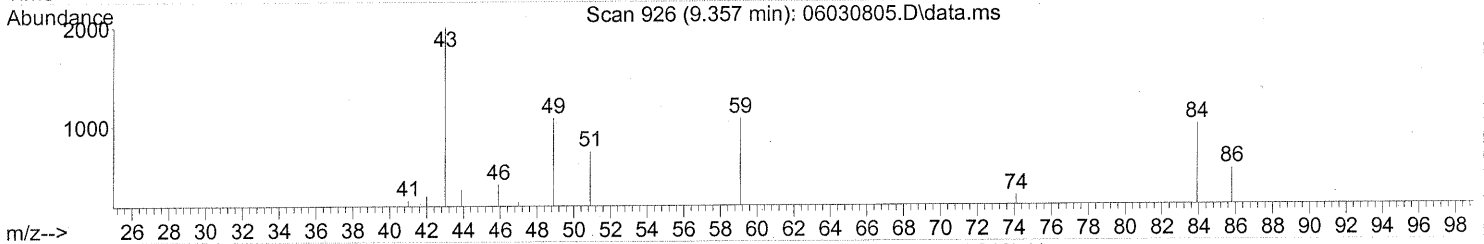
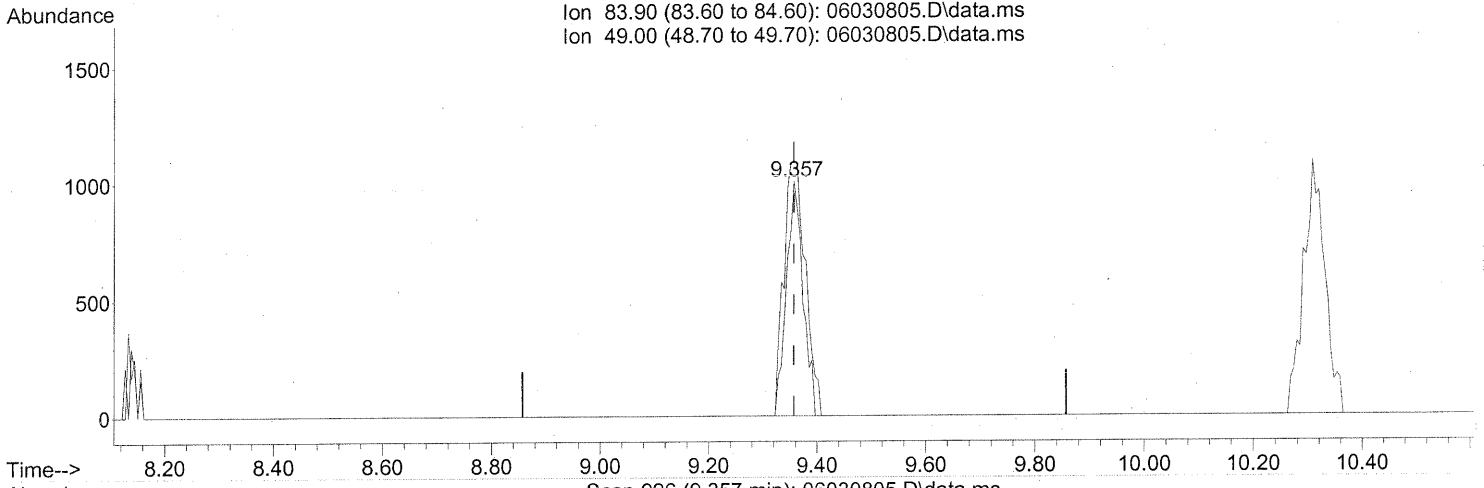
*4/06/08/08*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.10ng

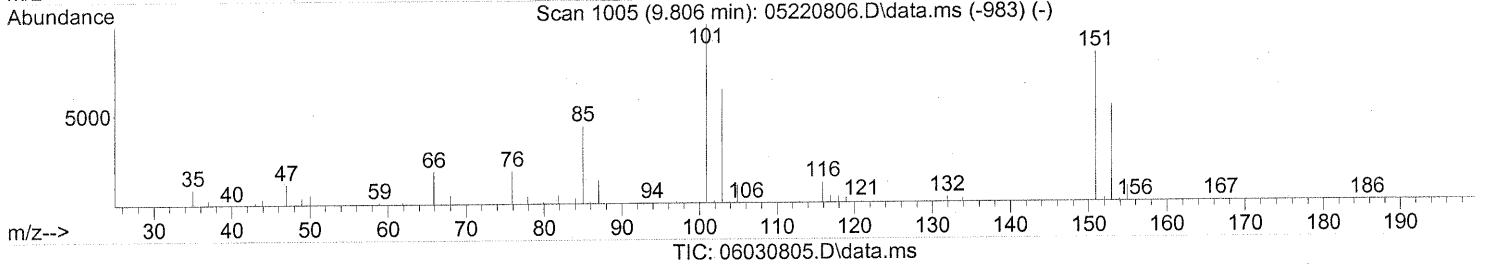
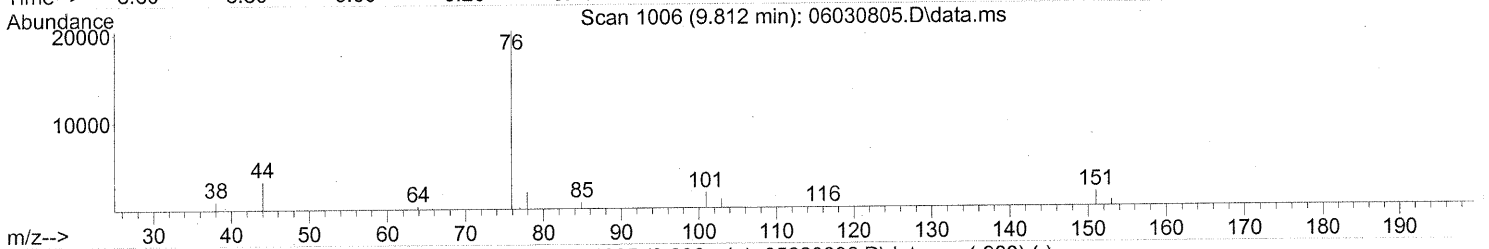
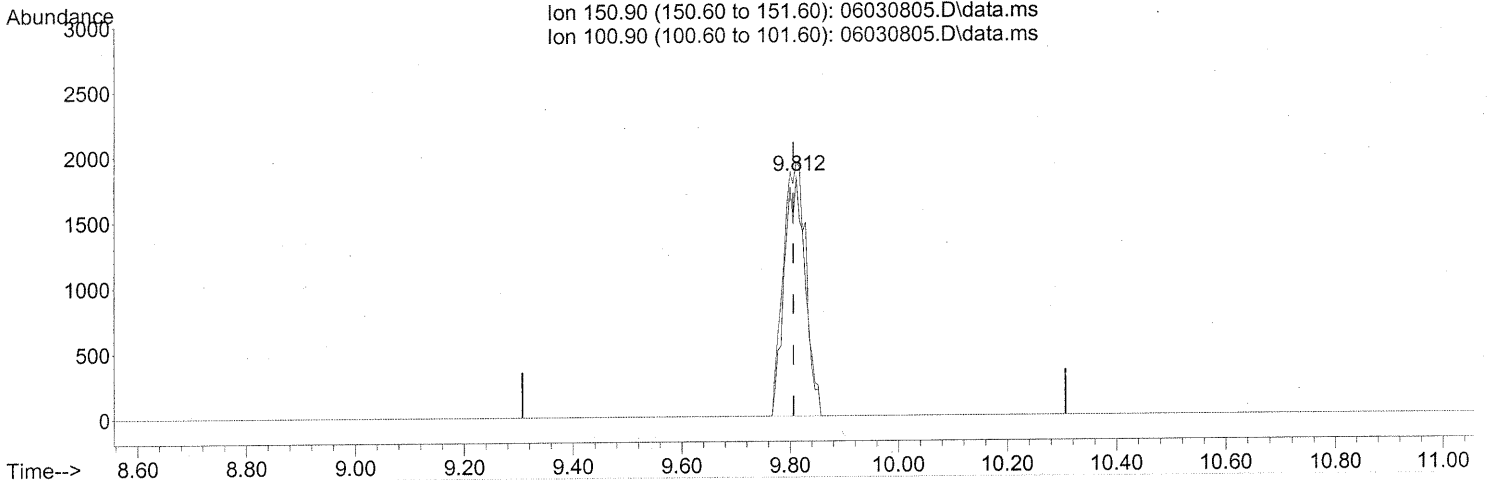
response 2136

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	141.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.812min (+0.006) 0.25ng

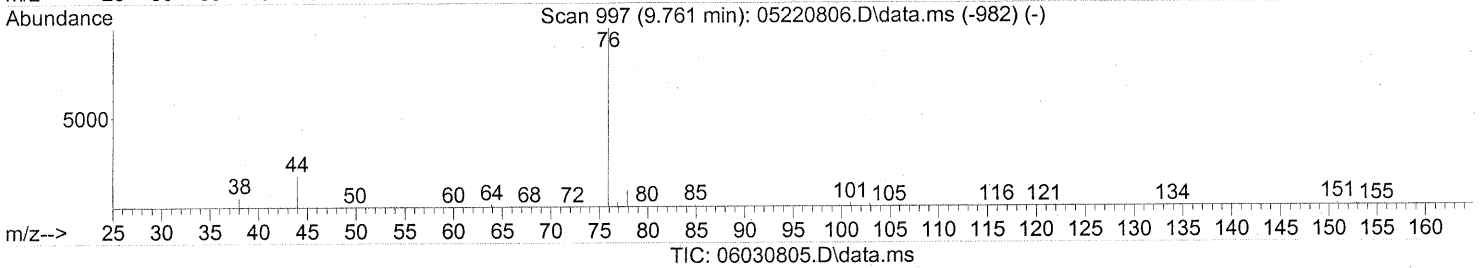
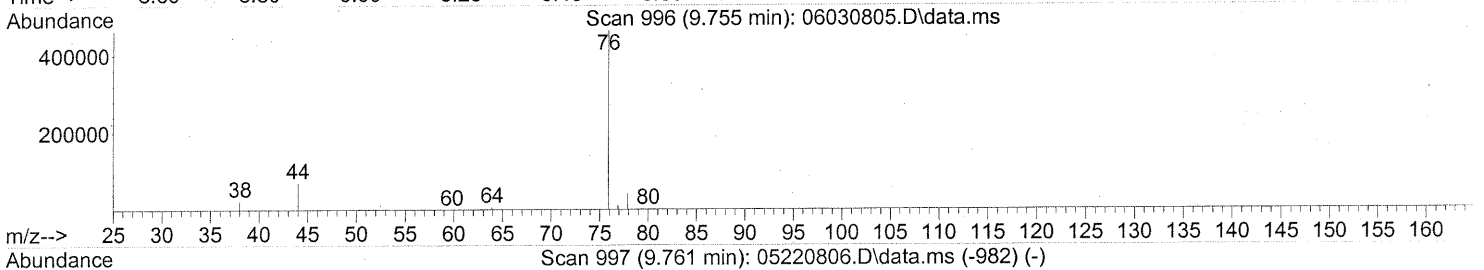
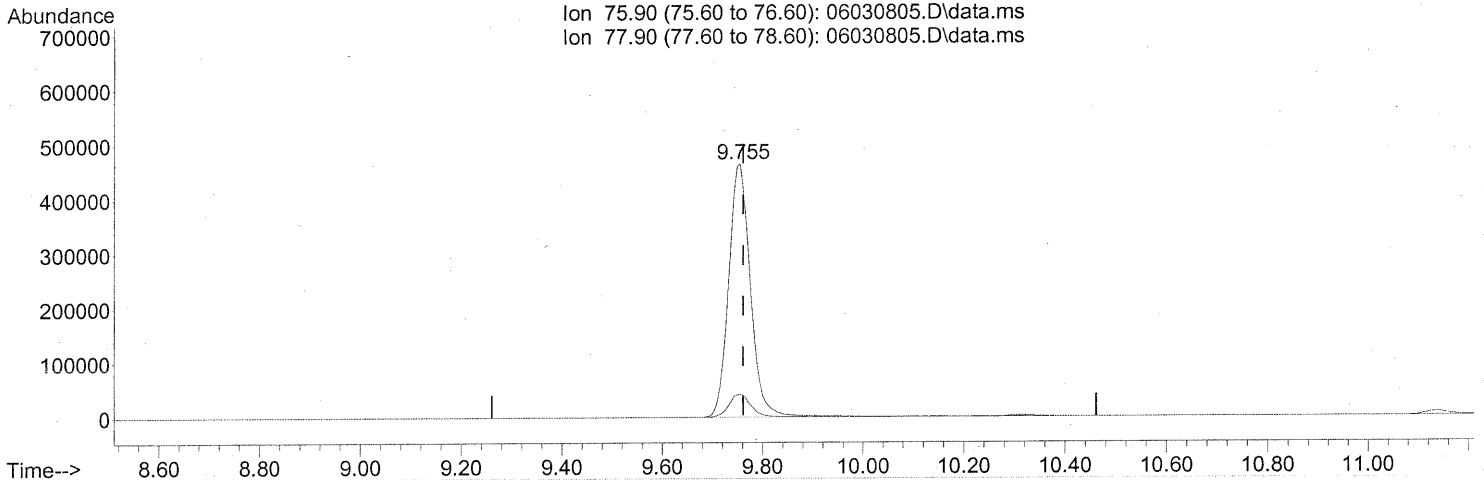
response 4826

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	116.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 17.83ng

response 1382656

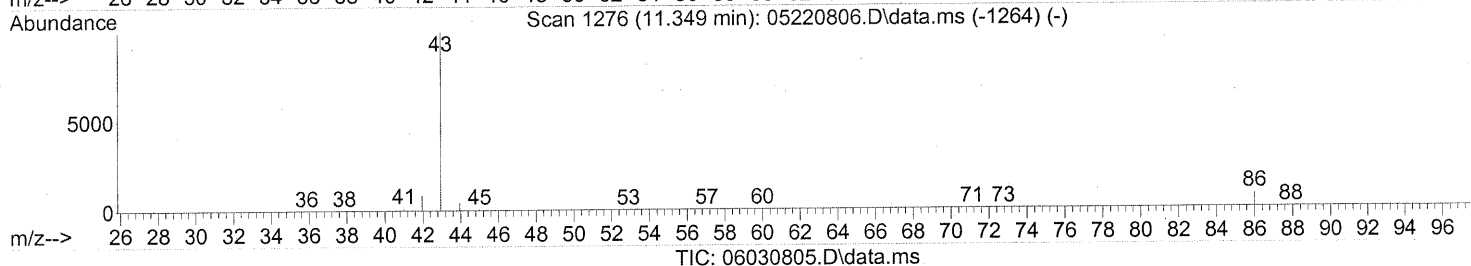
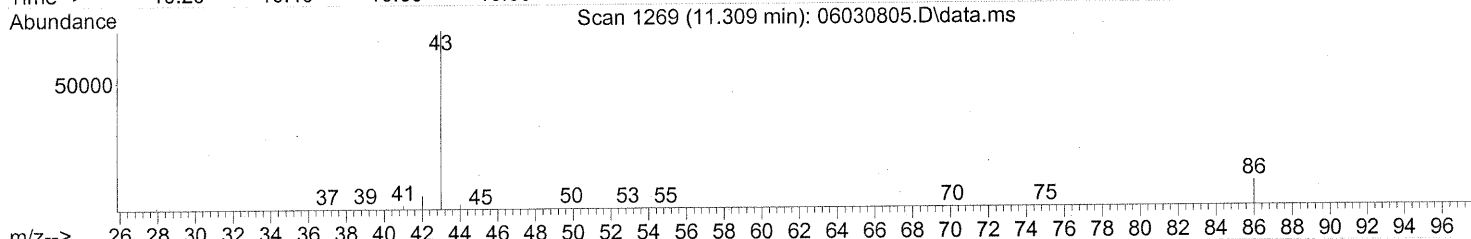
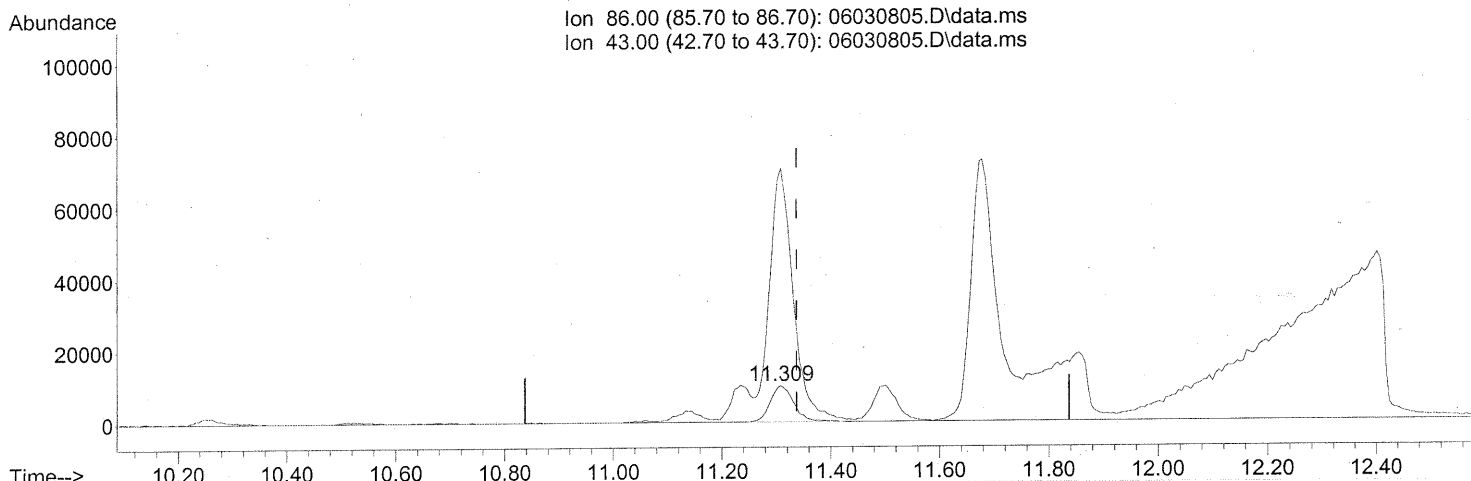
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.01
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.309min (-0.028) 8.77ng

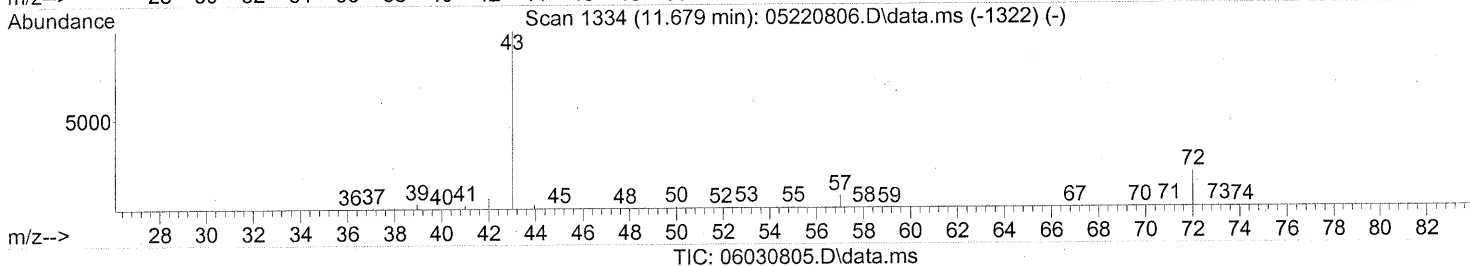
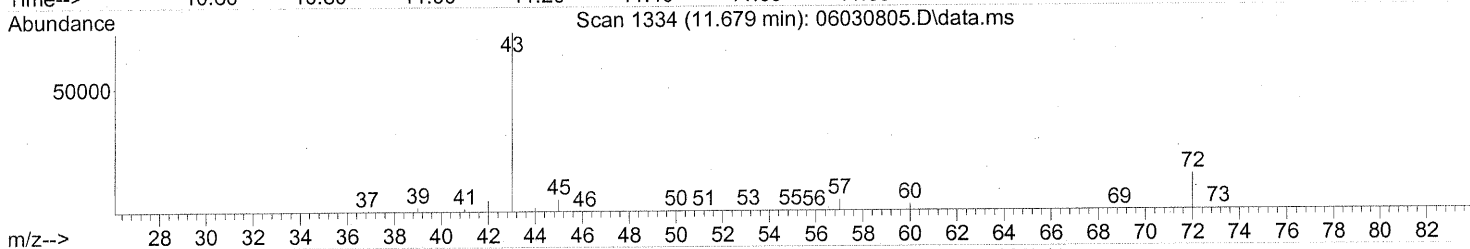
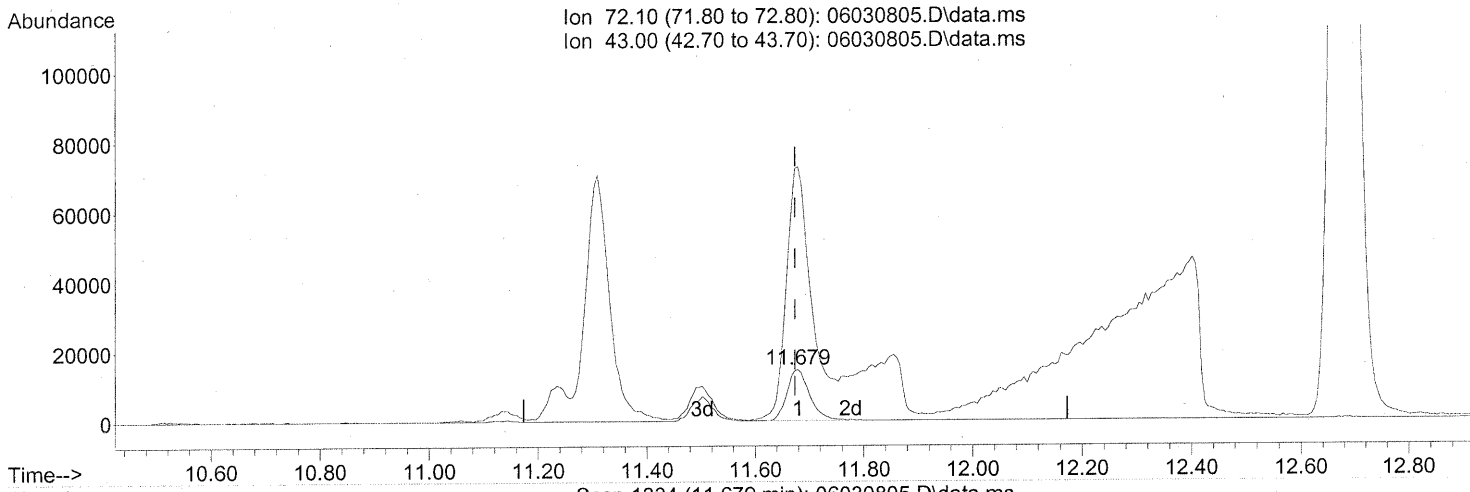
response 29634

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	703.34#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.679min (+0.006) 3.15ng

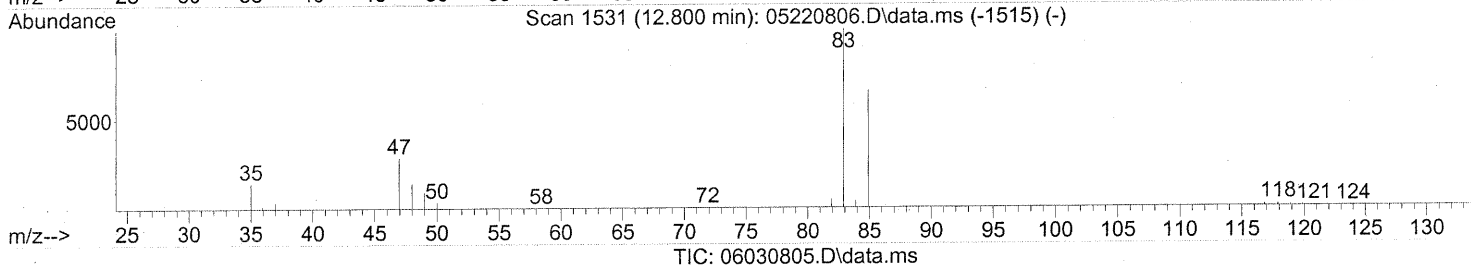
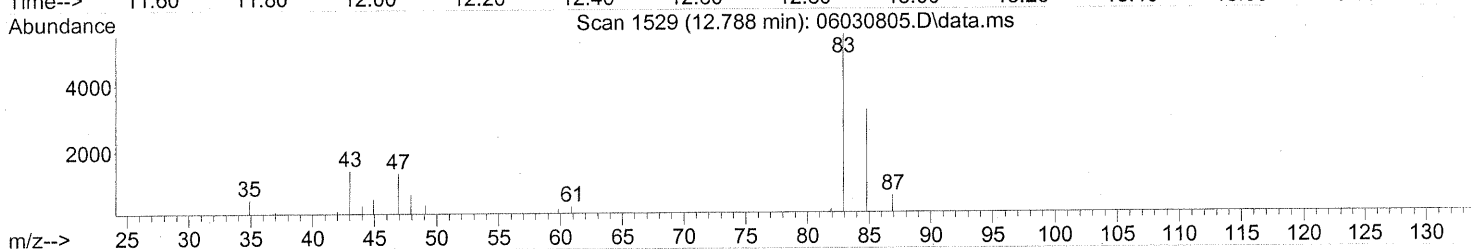
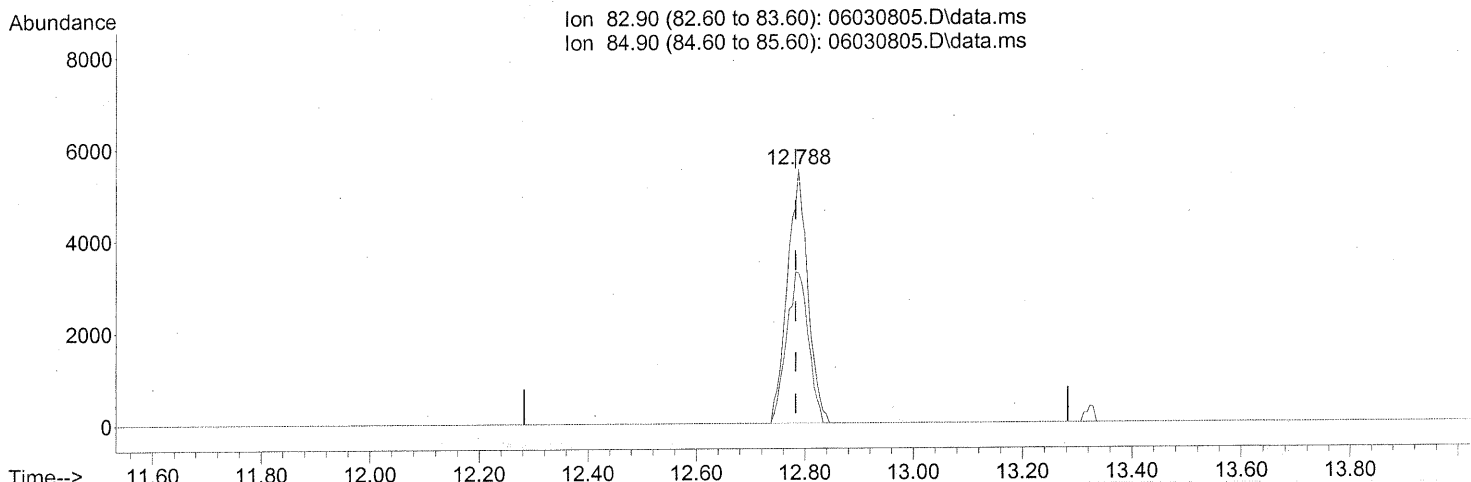
response 42092

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	836.24#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



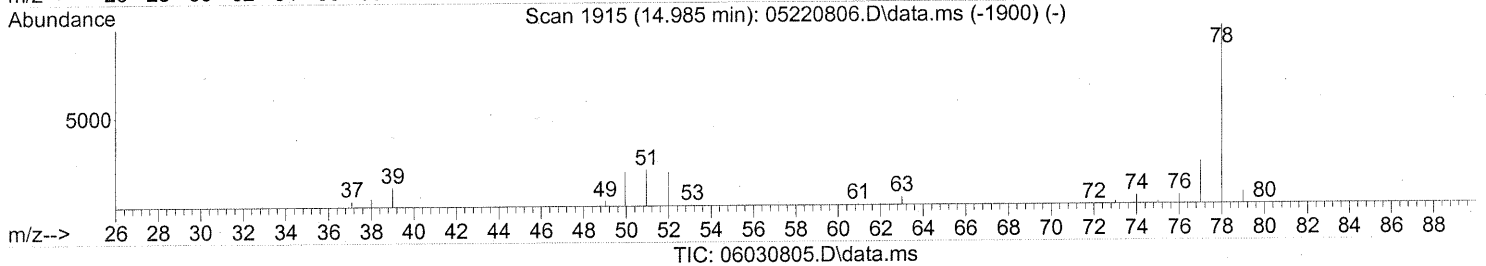
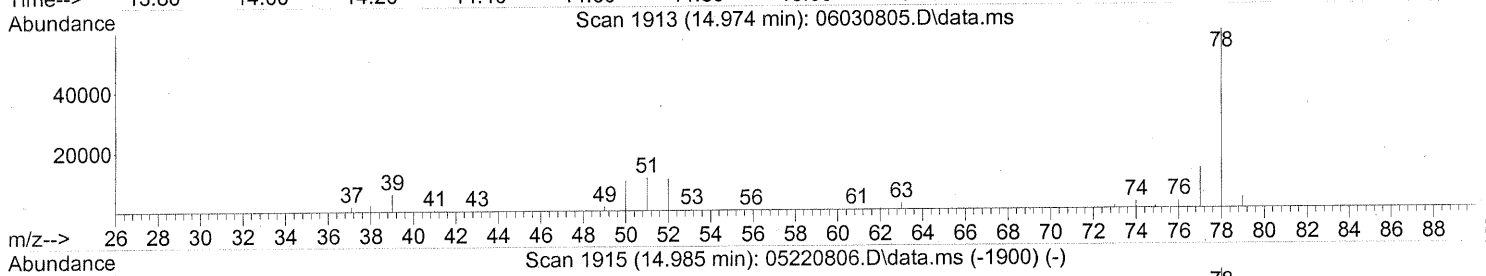
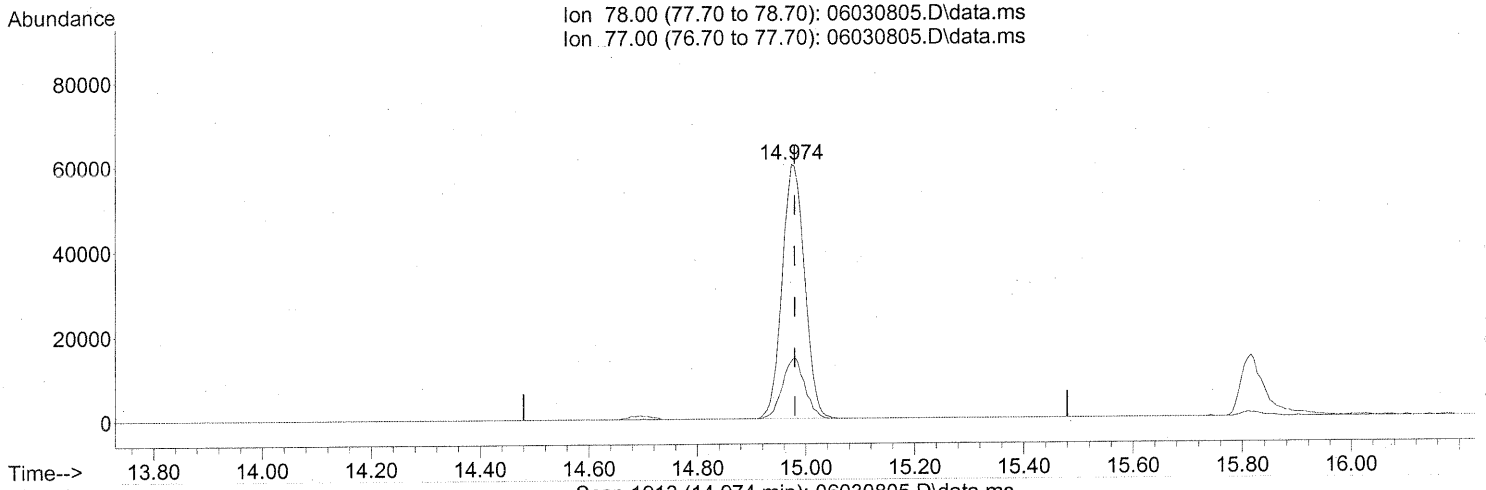
(32) Chloroform (T)  
 12.788min (+0.006) 0.47ng  
 response 14414

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	63.52
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.974min (-0.006) 2.31ng

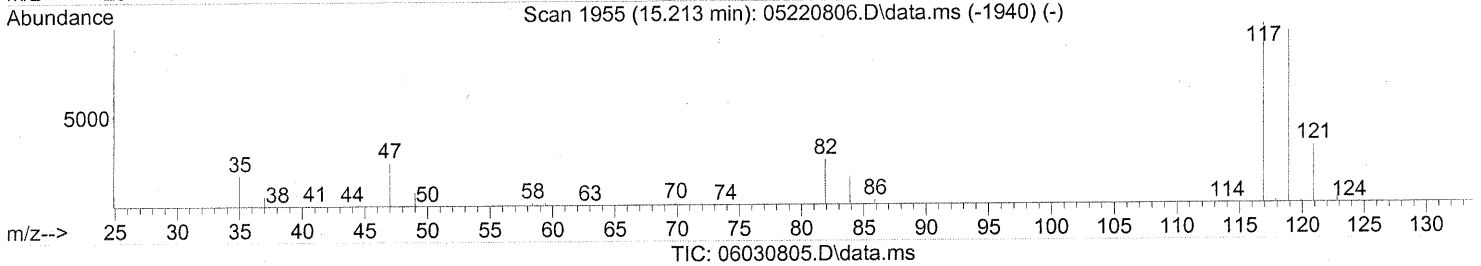
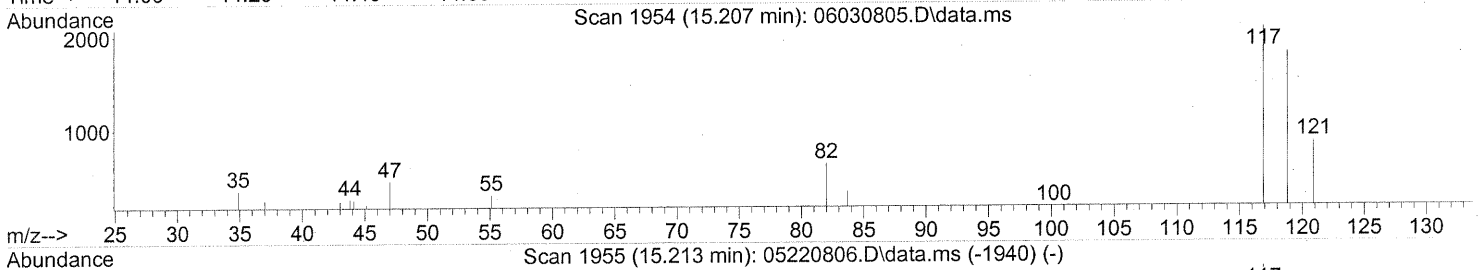
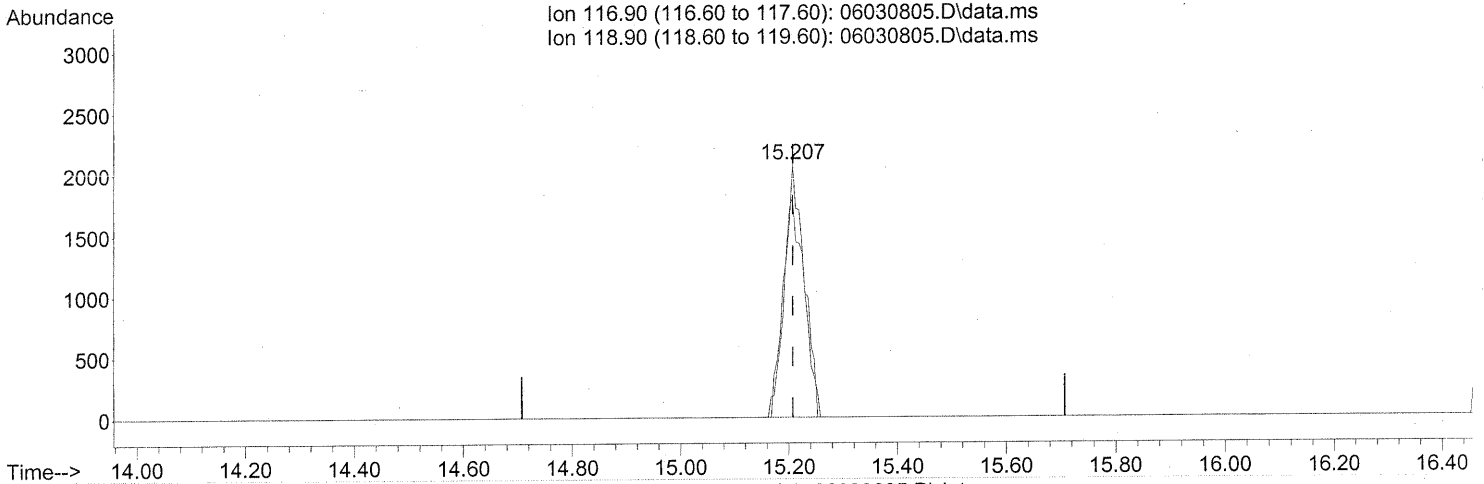
response 173270

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 0.18ng

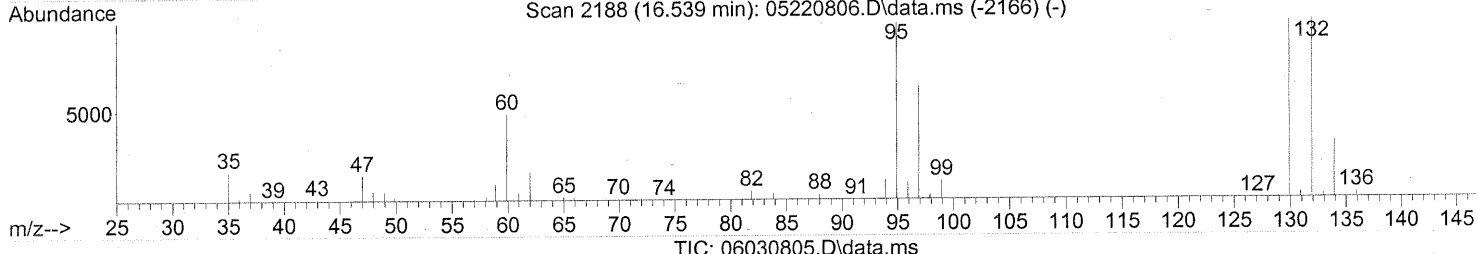
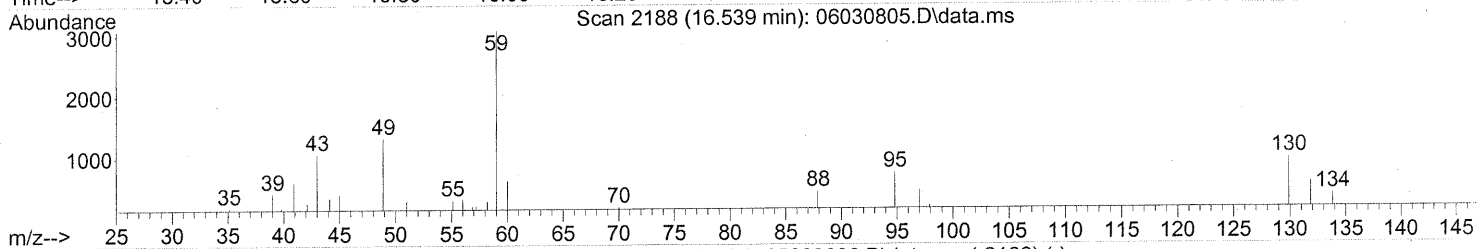
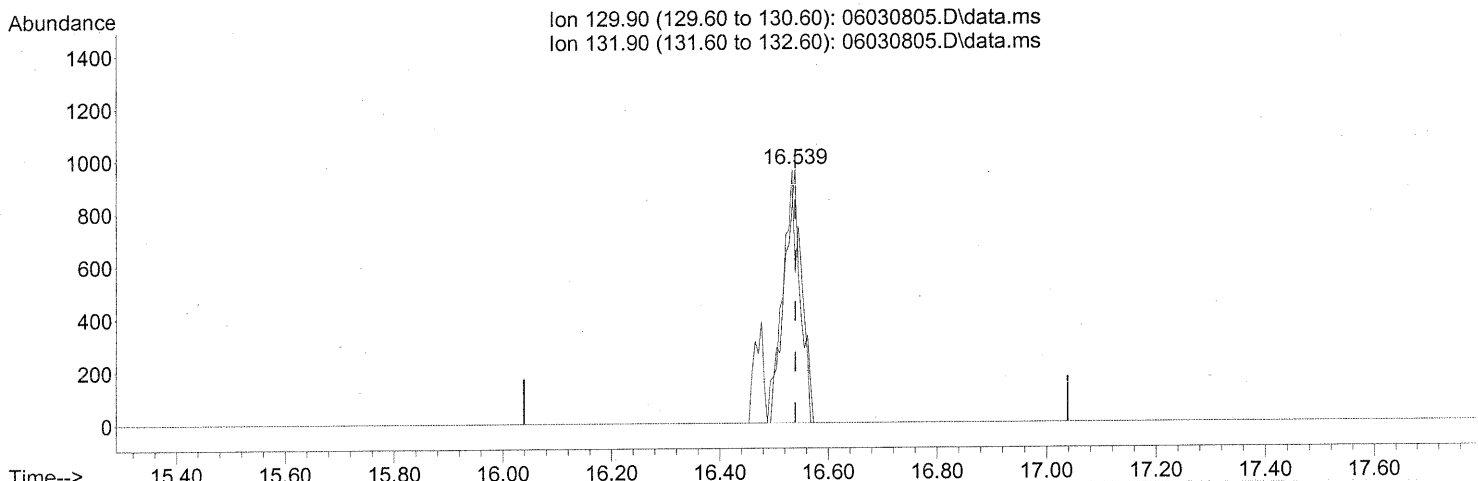
response 5179

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	94.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(47) Trichloroethene (T)

16.539min (-0.000) 0.09ng

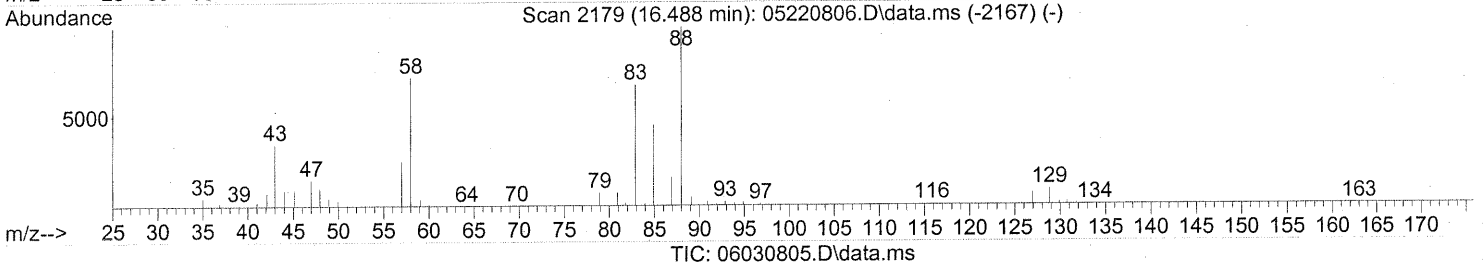
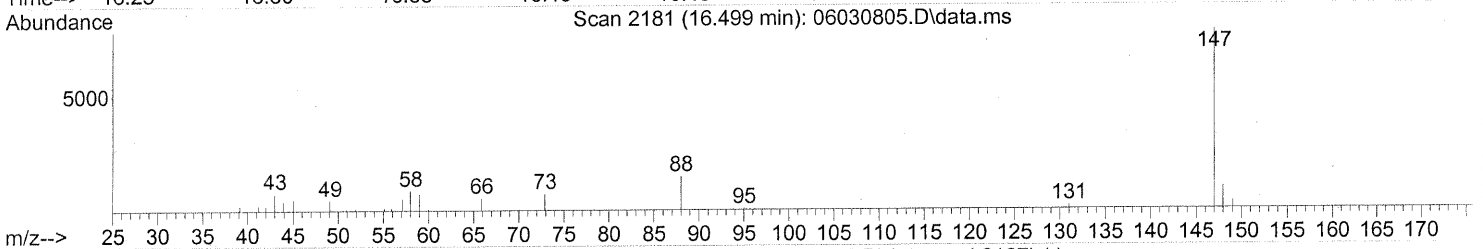
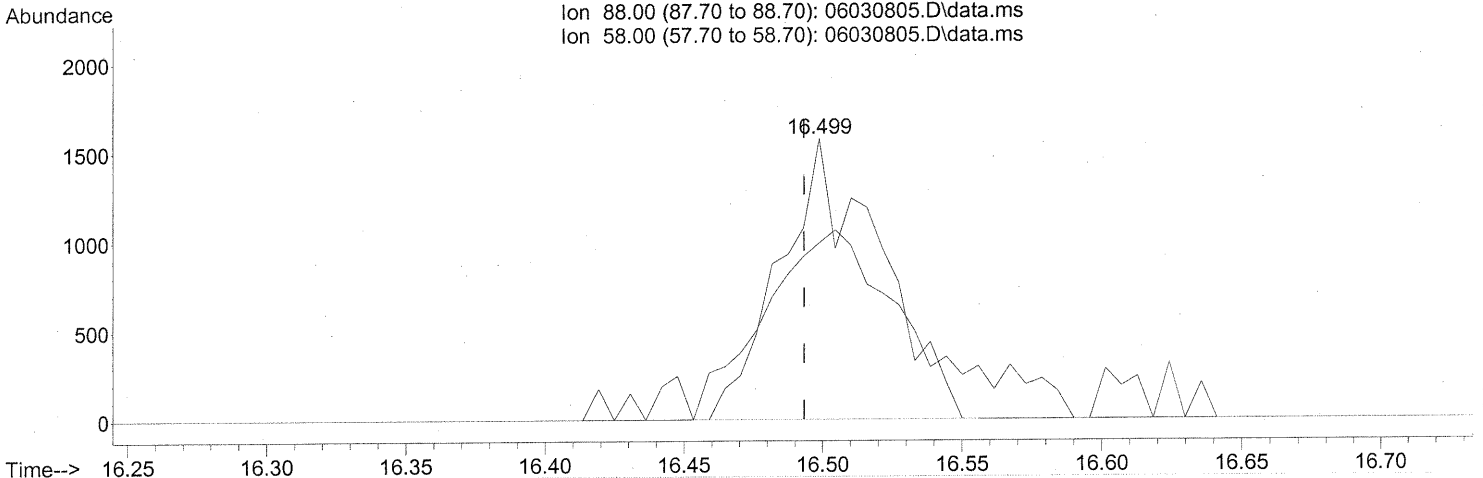
response 2041

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	107.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.28ng

BEFORE SUBTRACTION

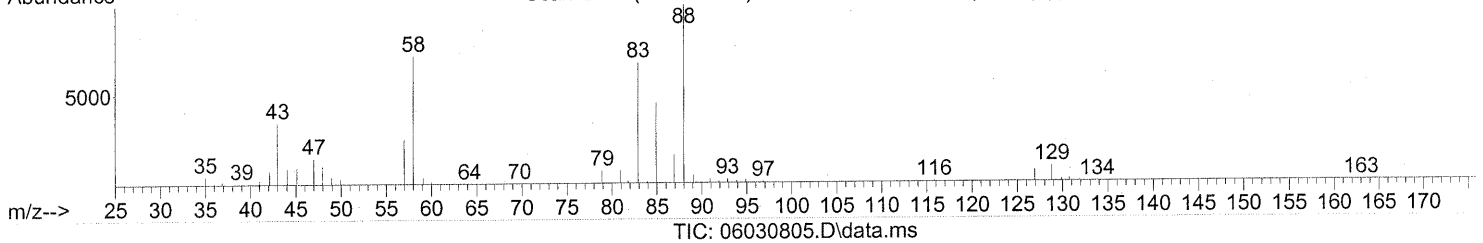
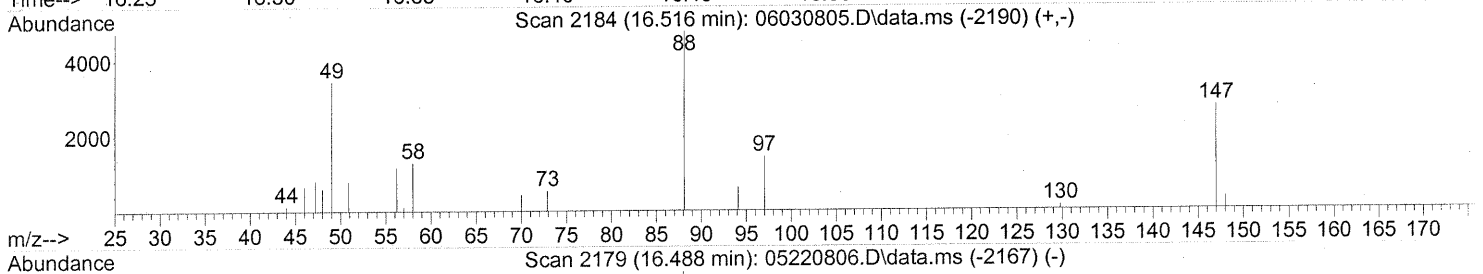
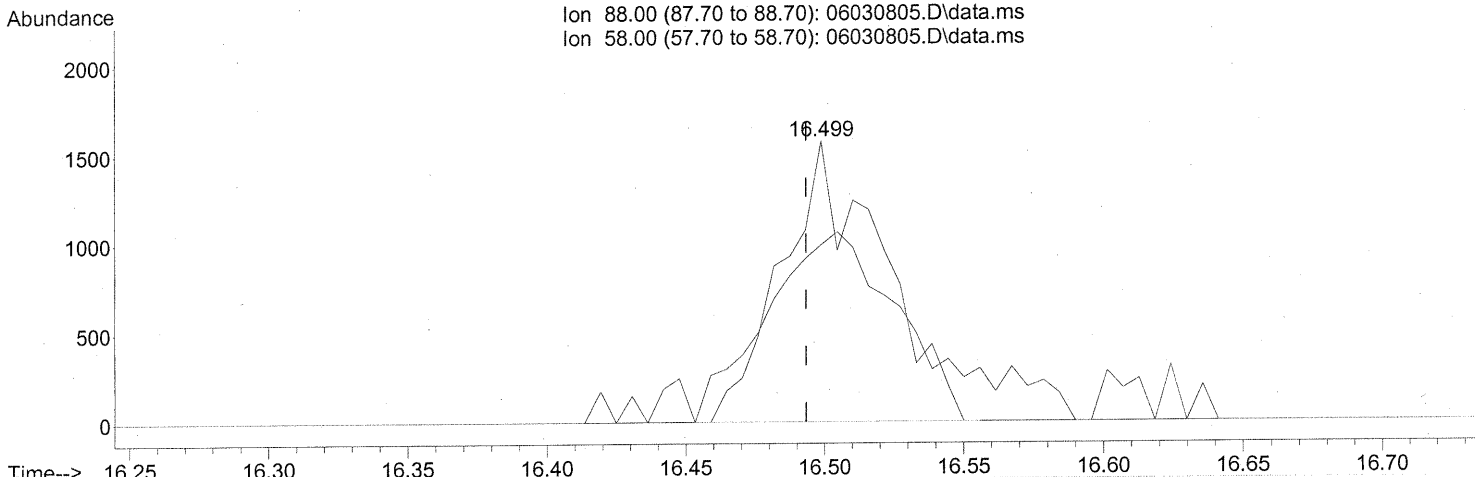
response 3903

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	102.61
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.499min (+0.006) 0.28ng

response 3903

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	102.61
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

6/8/08

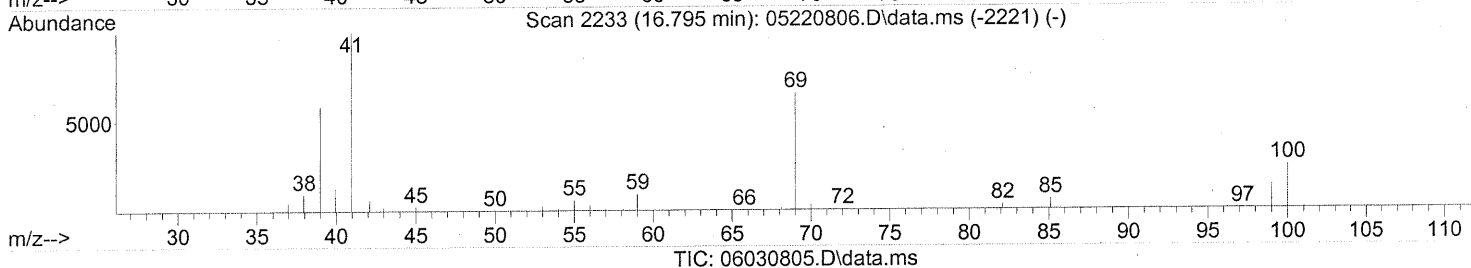
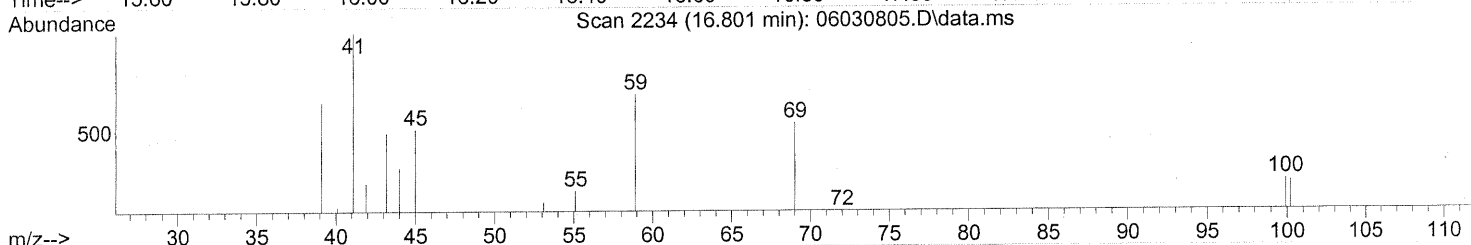
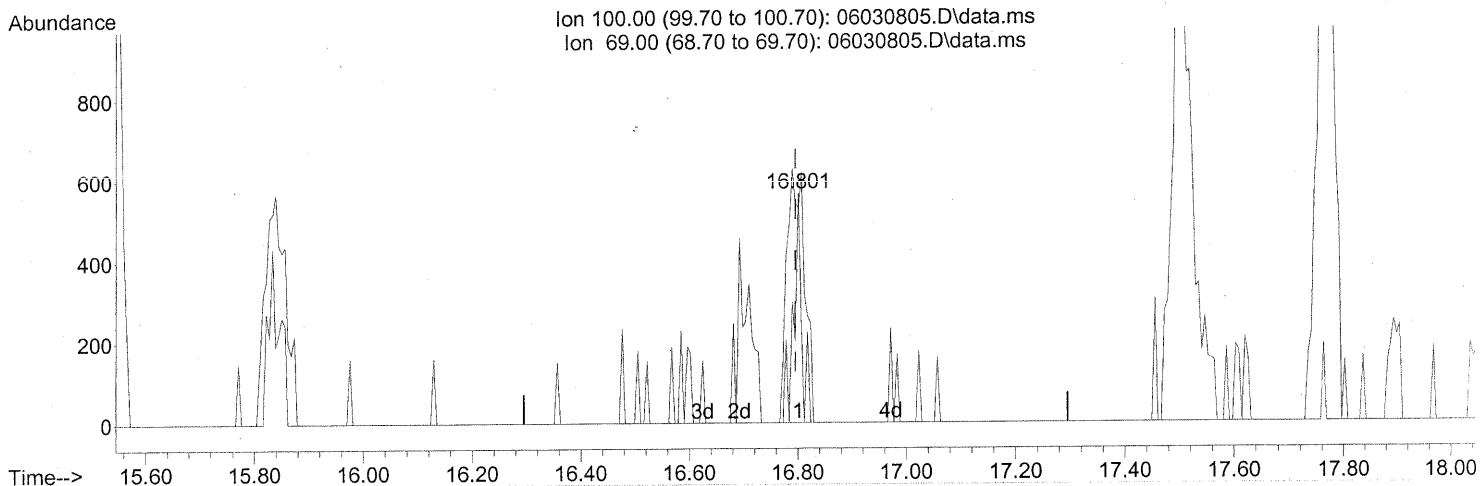
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.801min (+0.006) 0.08ng

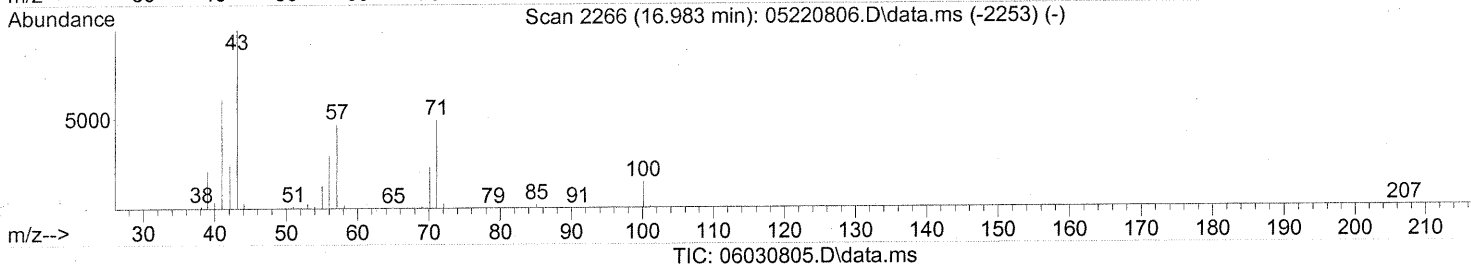
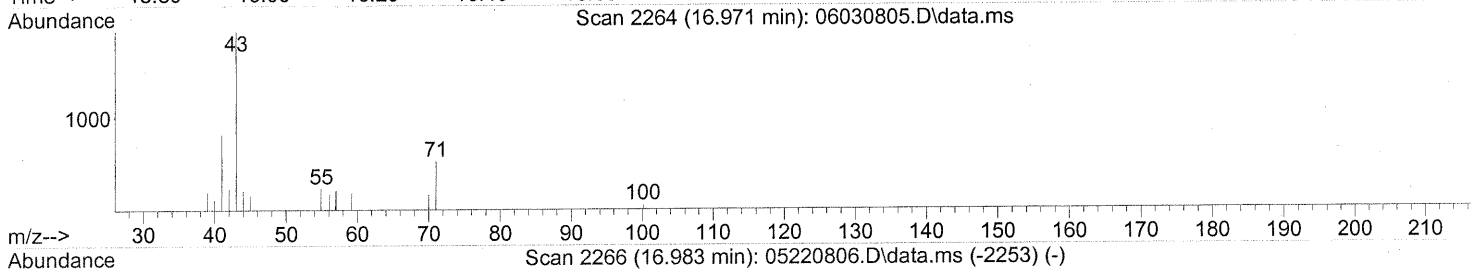
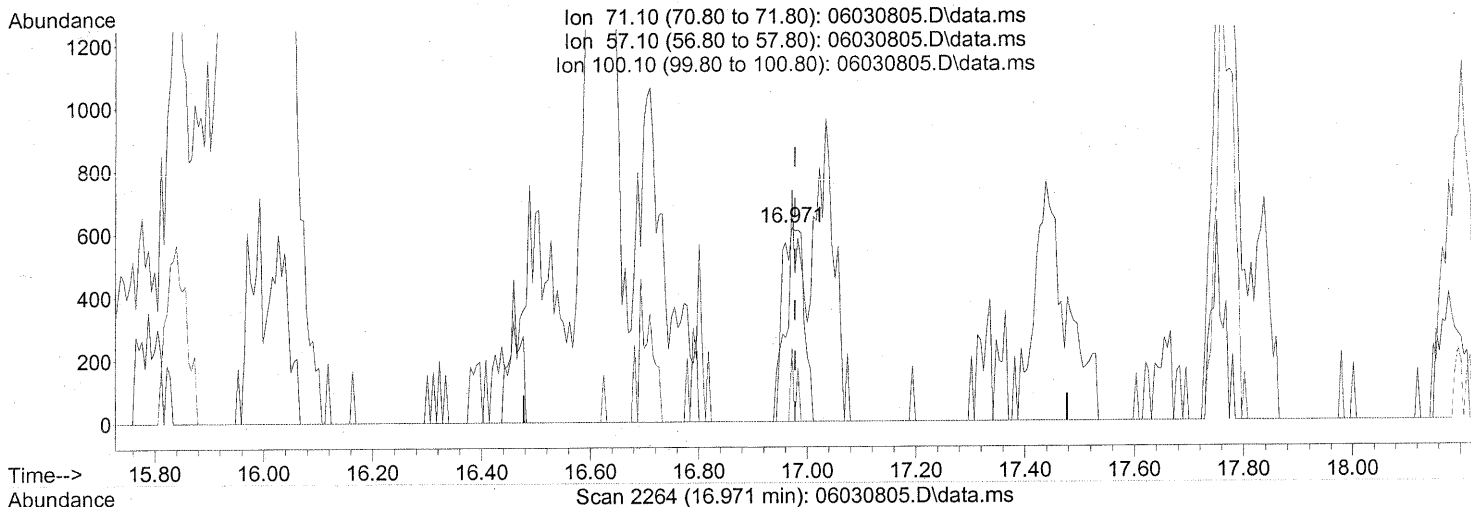
response 590

Ion	Exp%	Act%
100.00	100	100
69.00	259.70	242.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



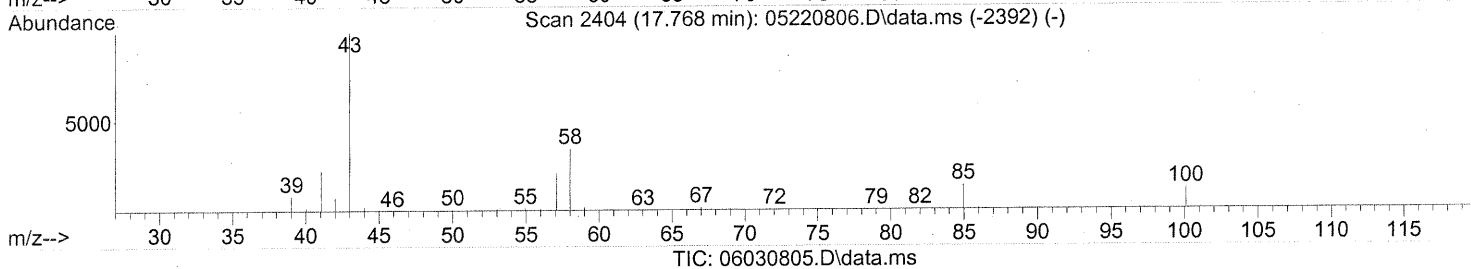
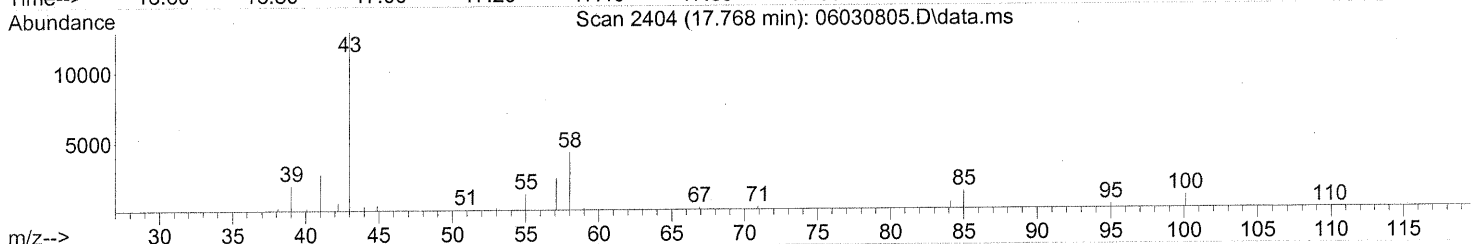
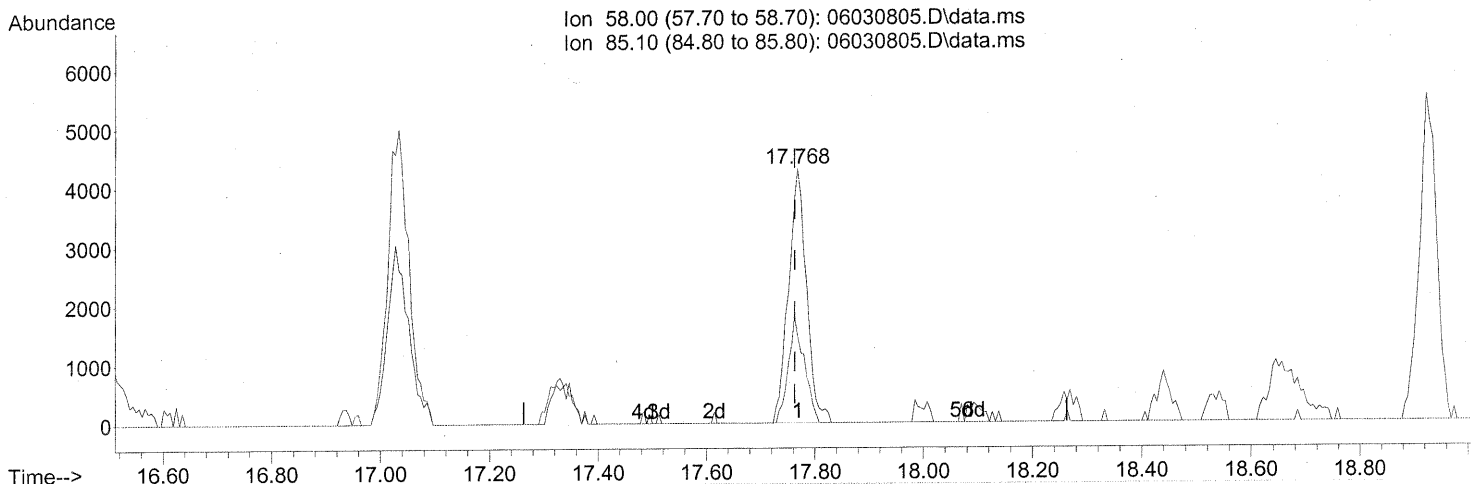
(51) n-Heptane (T)  
 16.971min (-0.006) 0.09ng  
 response 1748

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	79.46#
100.10	30.10	7.89#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

17.768min (+0.006) 0.50ng

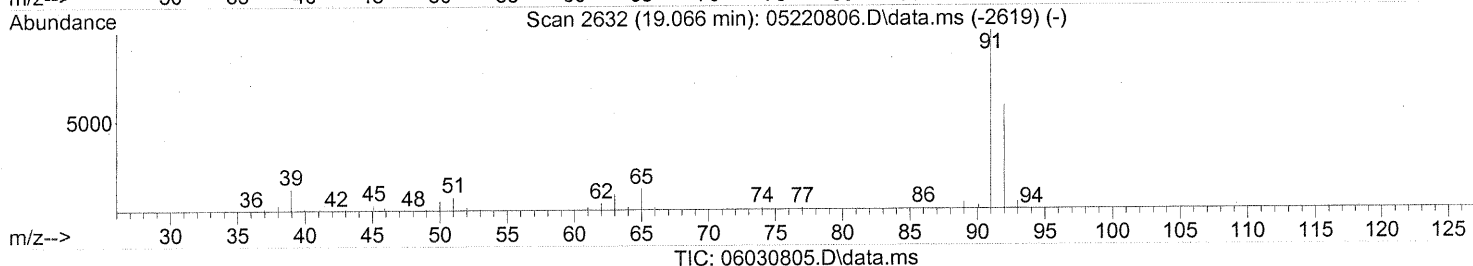
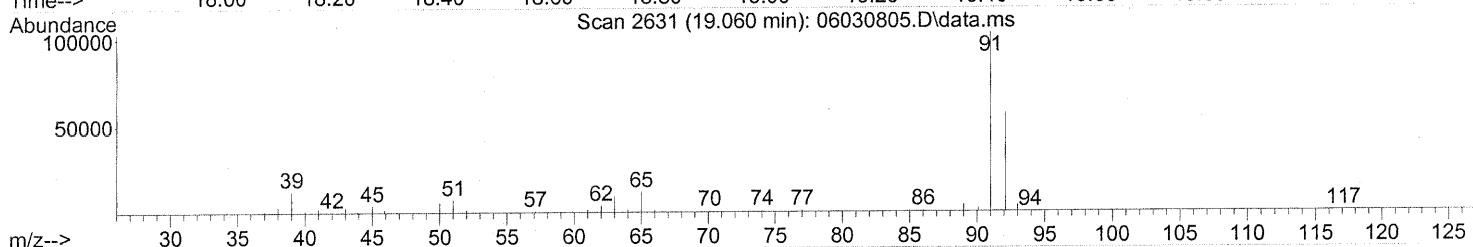
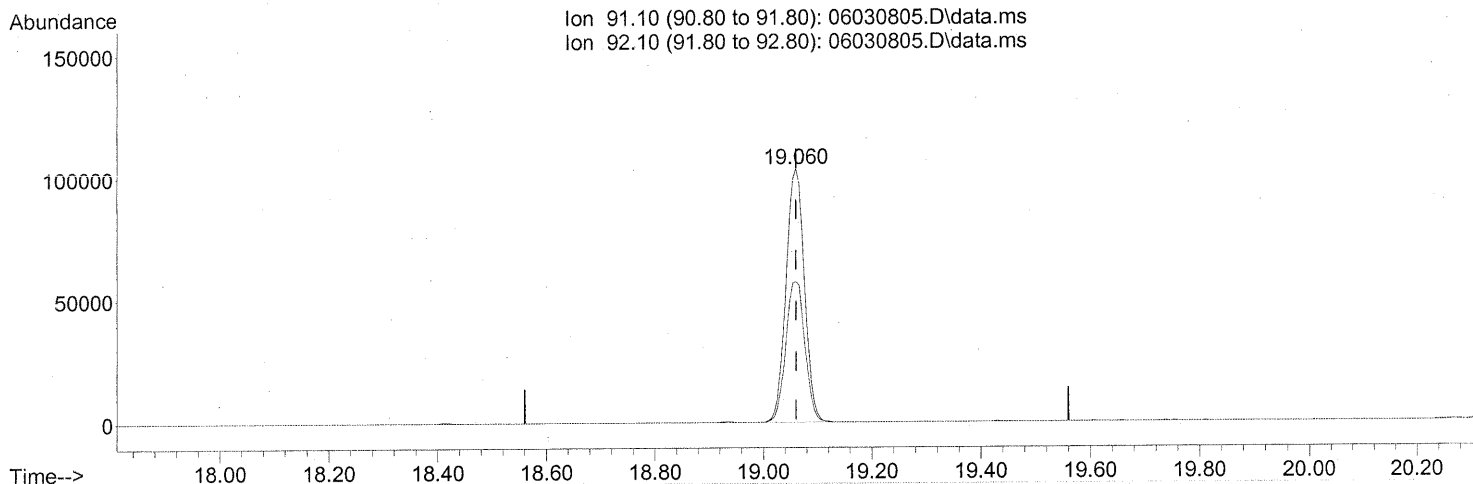
response 9992

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	37.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



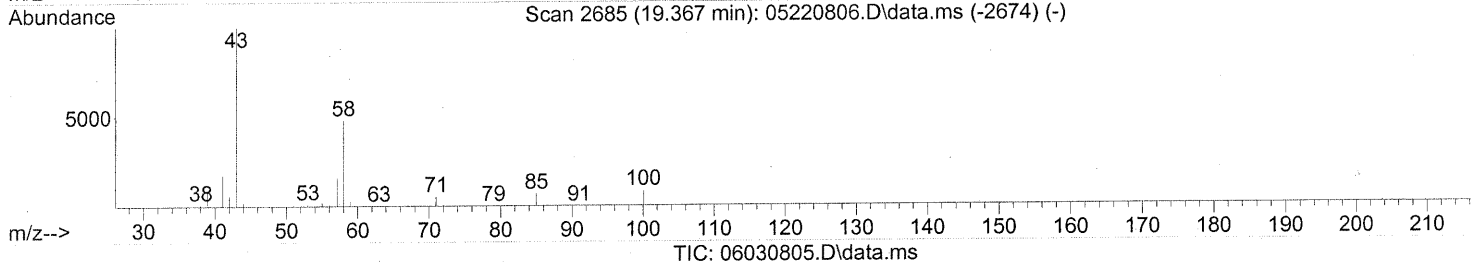
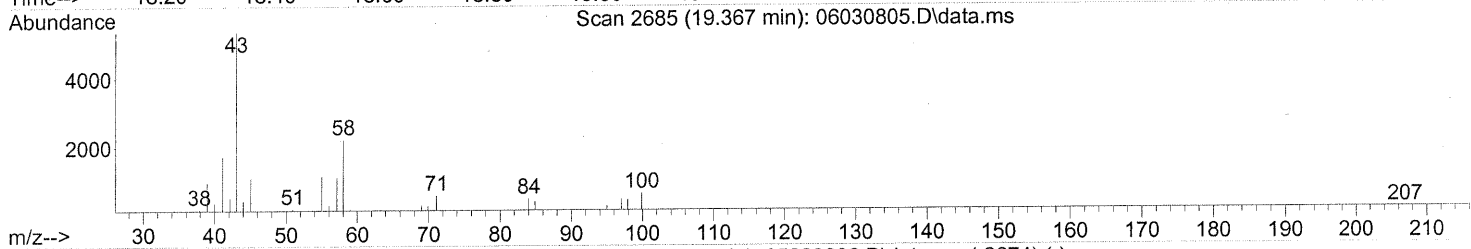
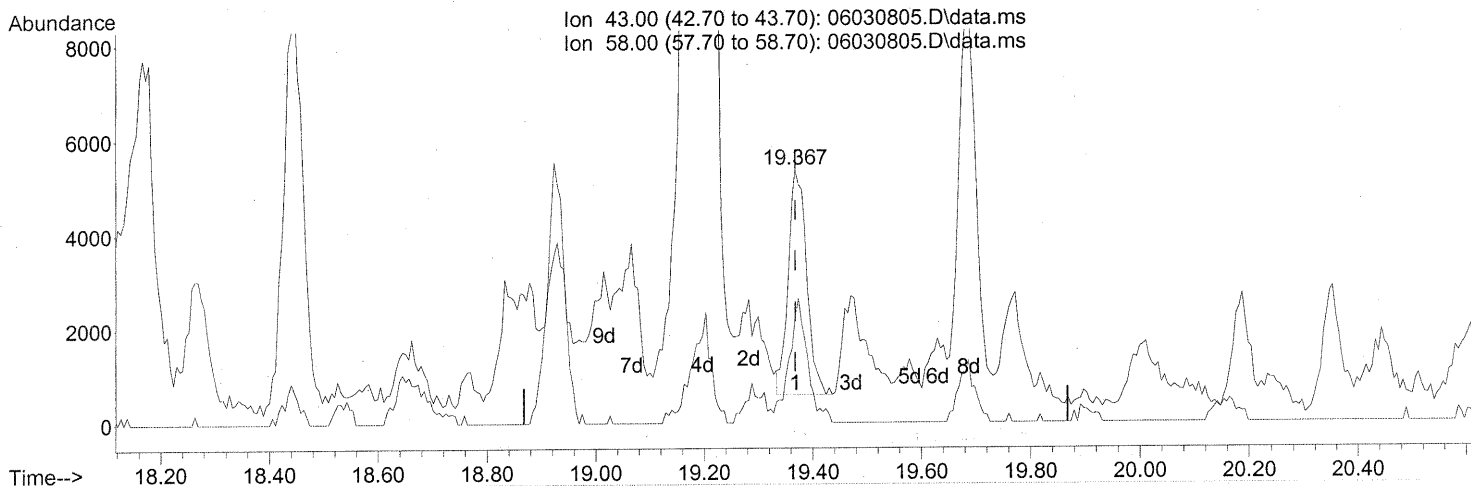
(58) Toluene (T)  
19.060min (-0.000) 2.88ng  
response 241957

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



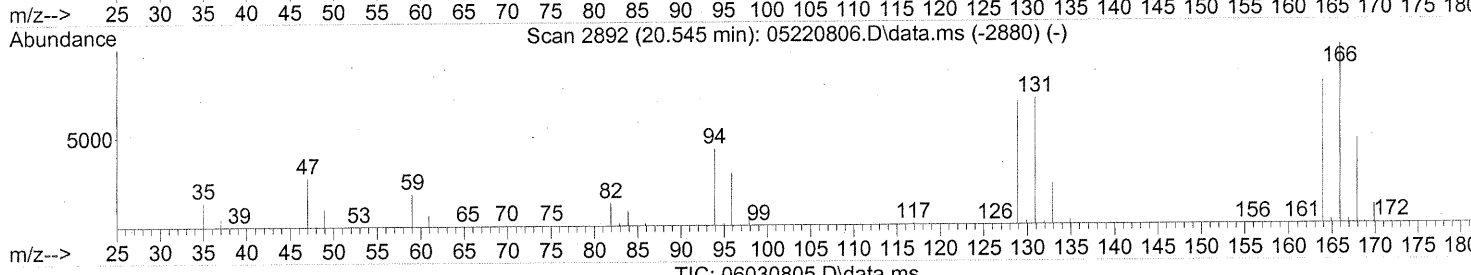
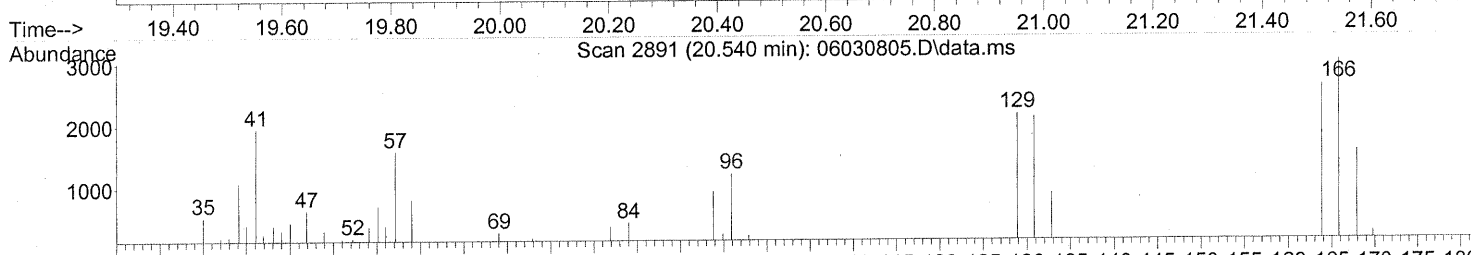
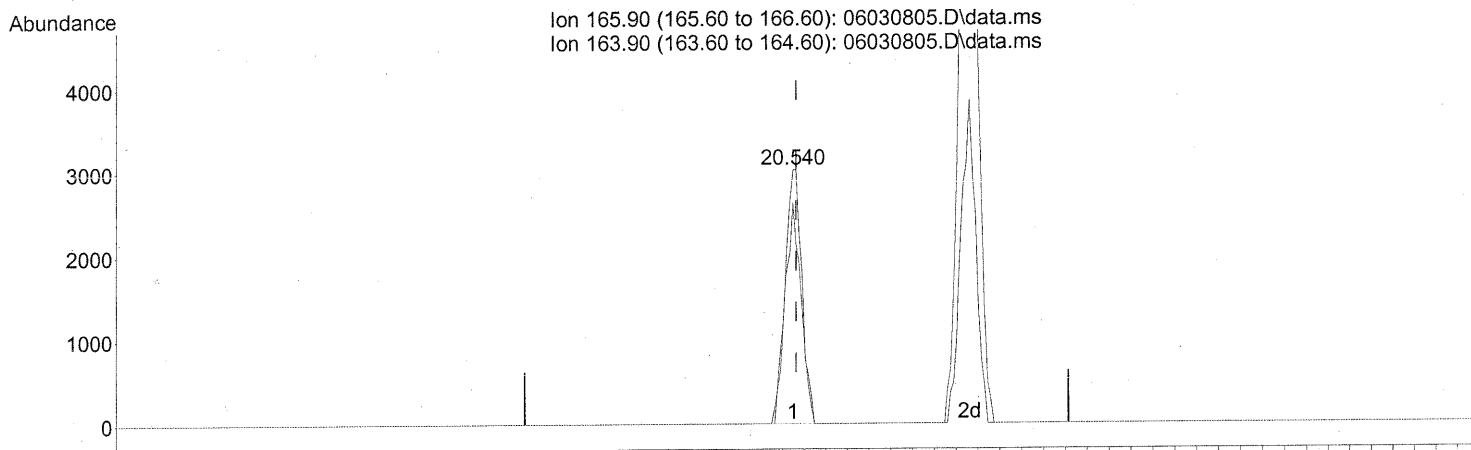
(59) 2-Hexanone (T)  
 19.367min (-0.000) 0.19ng  
 response 11104

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	55.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 0.26ng

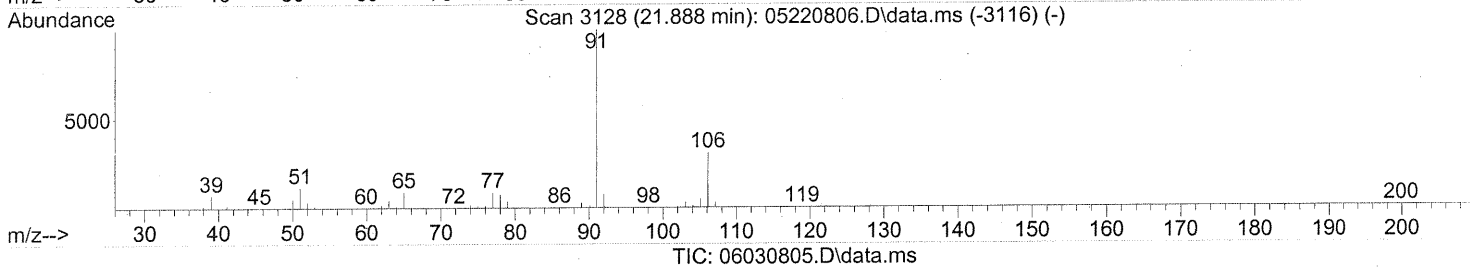
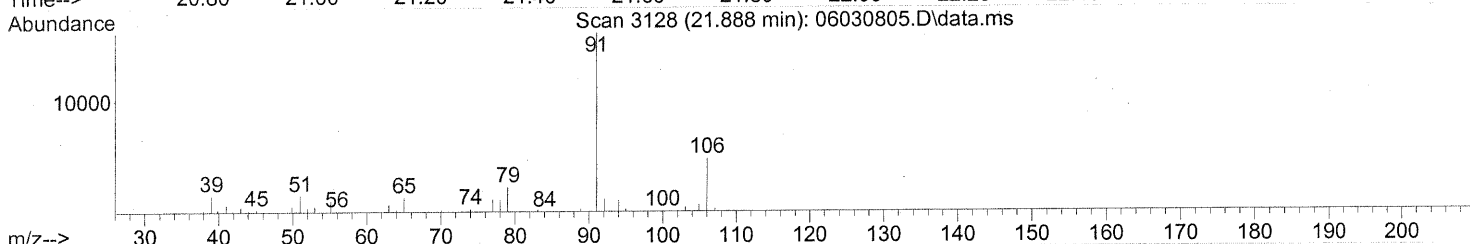
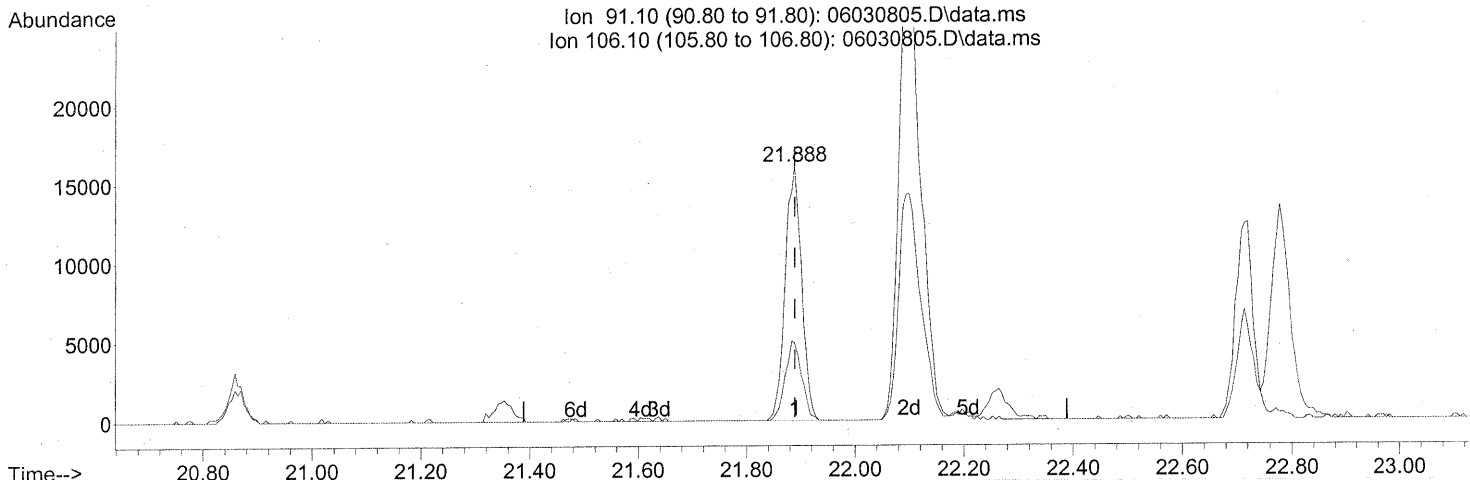
response 6513

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	83.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



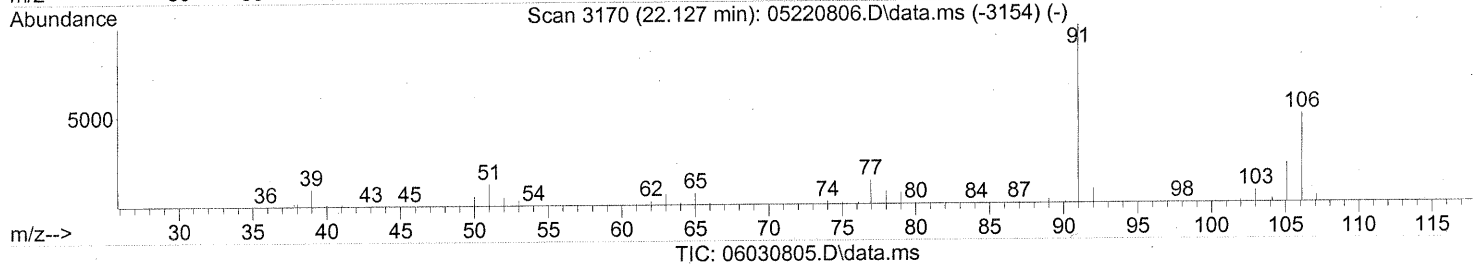
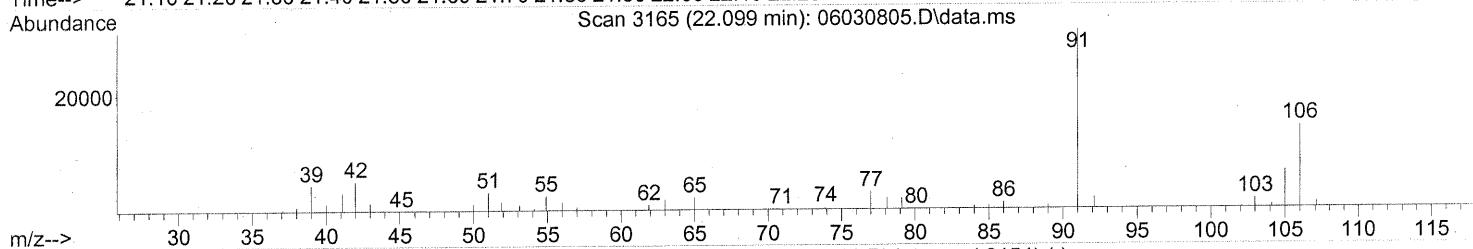
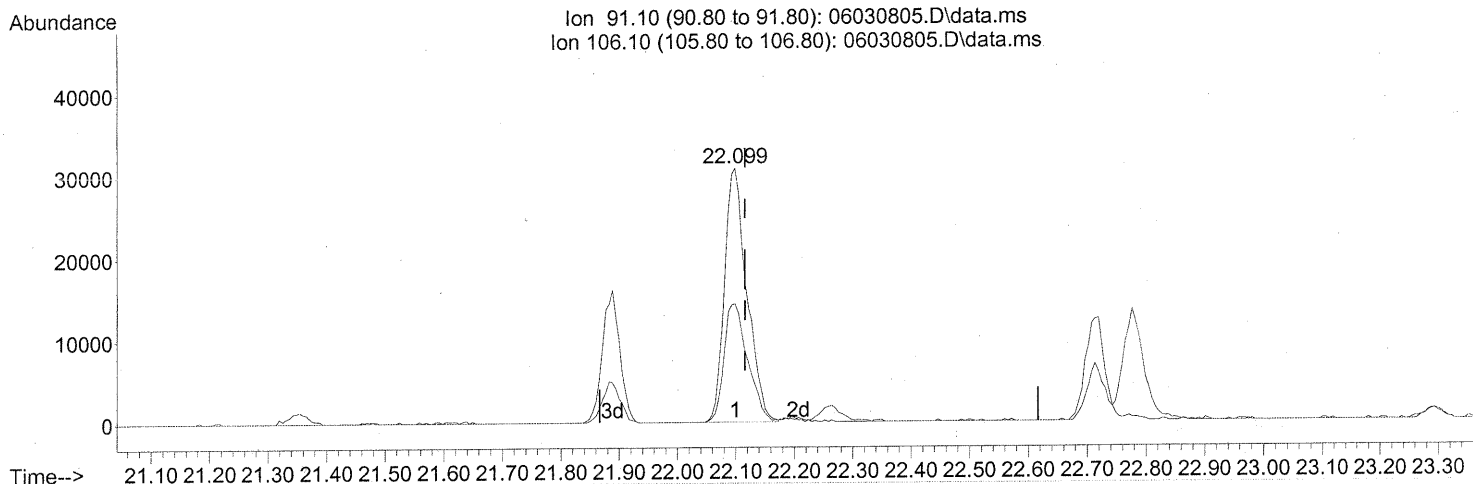
(66) Ethylbenzene (T)  
 21.888min (-0.000) 0.35ng  
 response 33505

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 1.27ng

response 81980

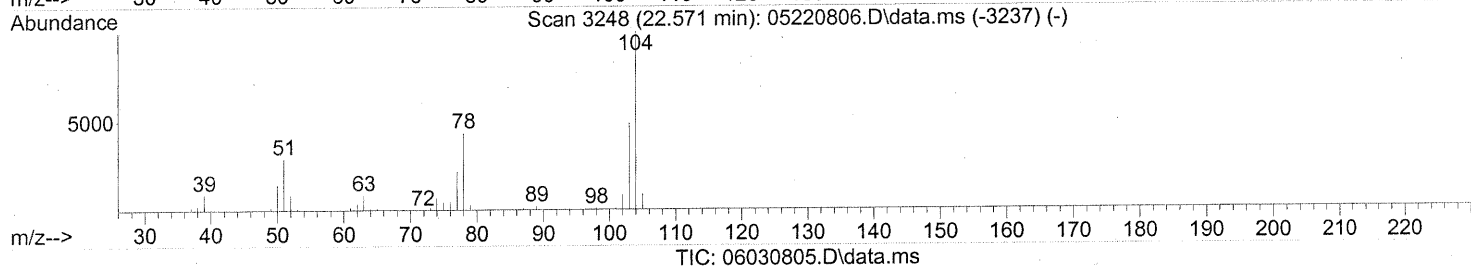
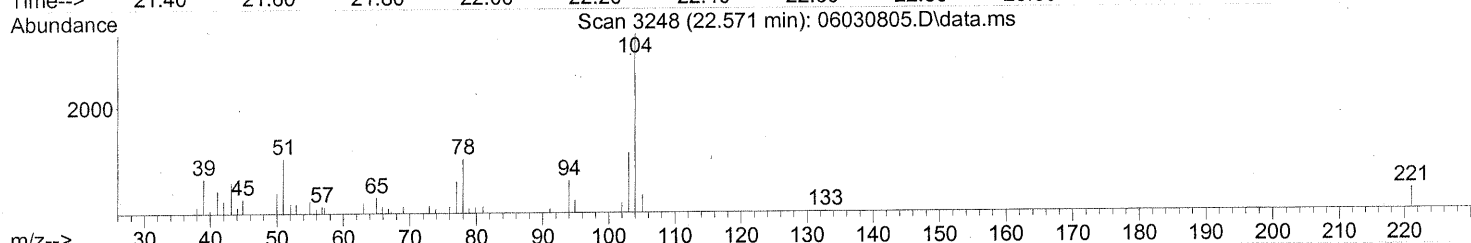
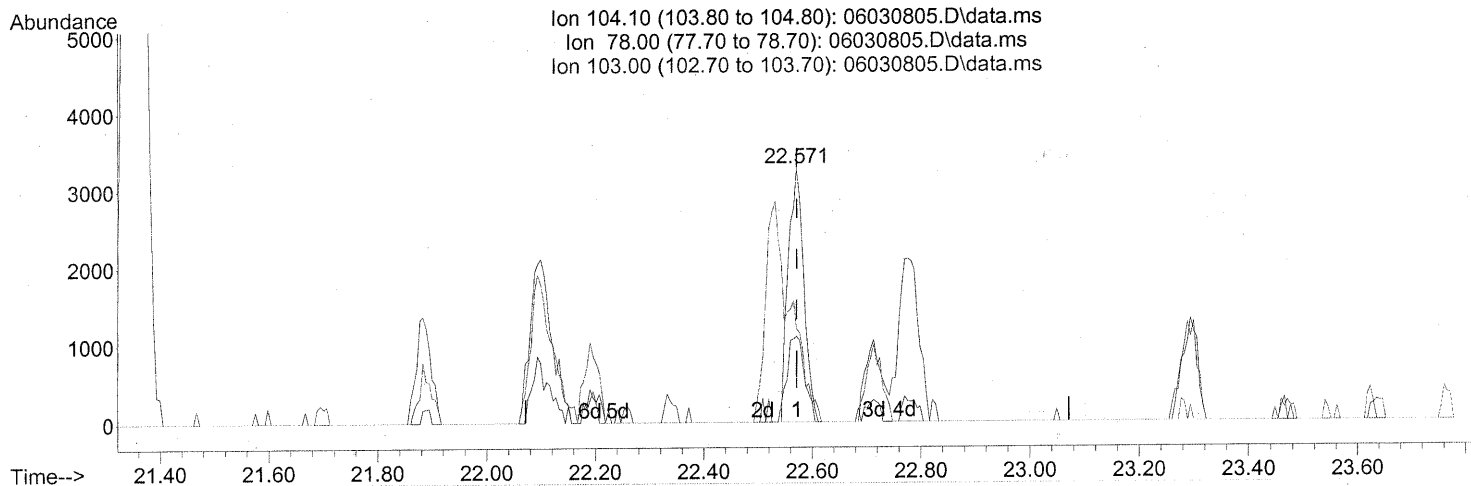
Ion	Exp%	Act%
91.10	100	100
106.10	54.60	49.32
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.11ng

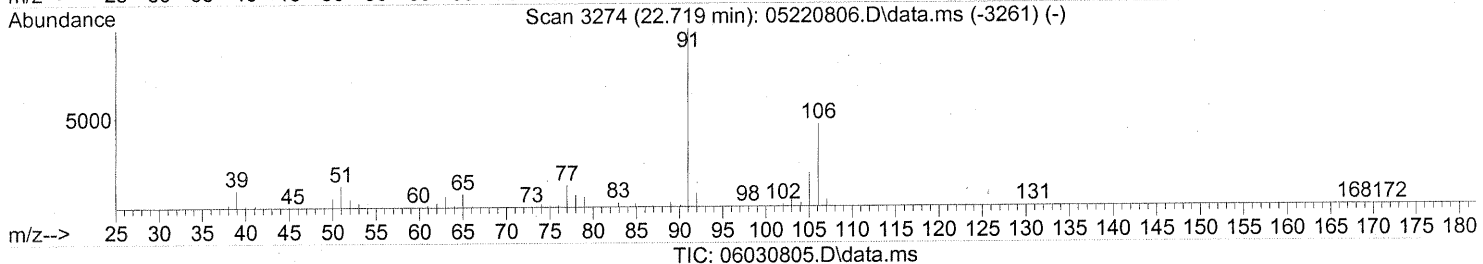
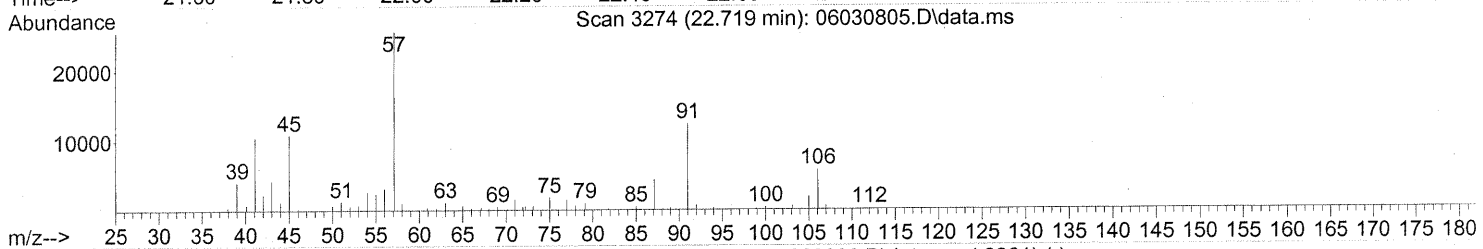
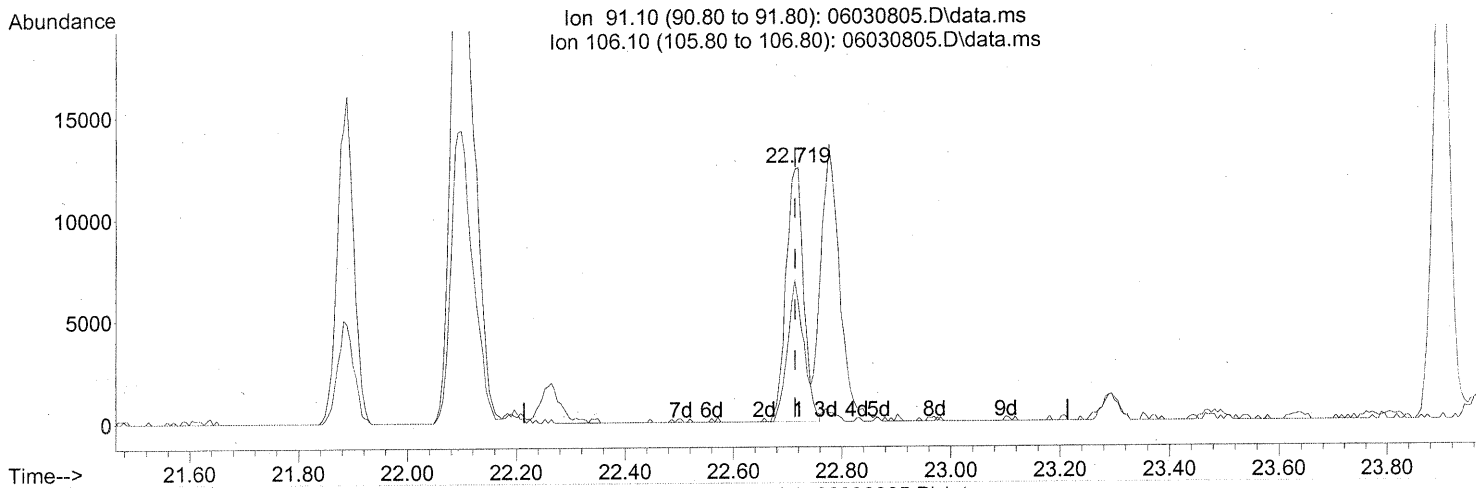
response 6524

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	38.55
103.00	47.10	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



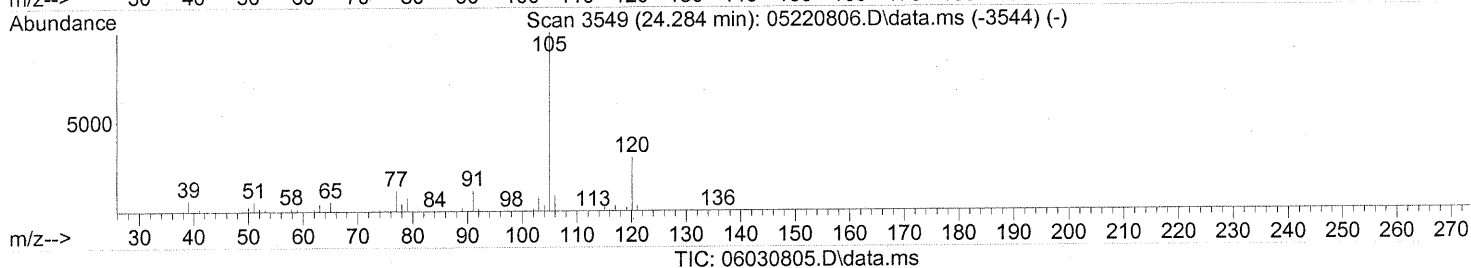
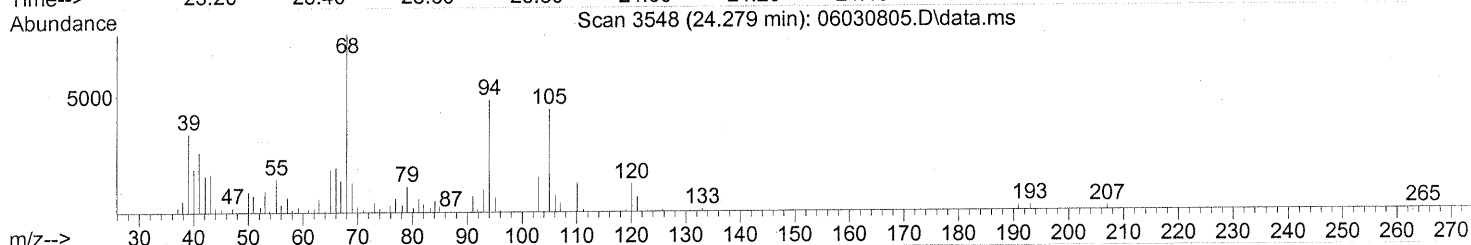
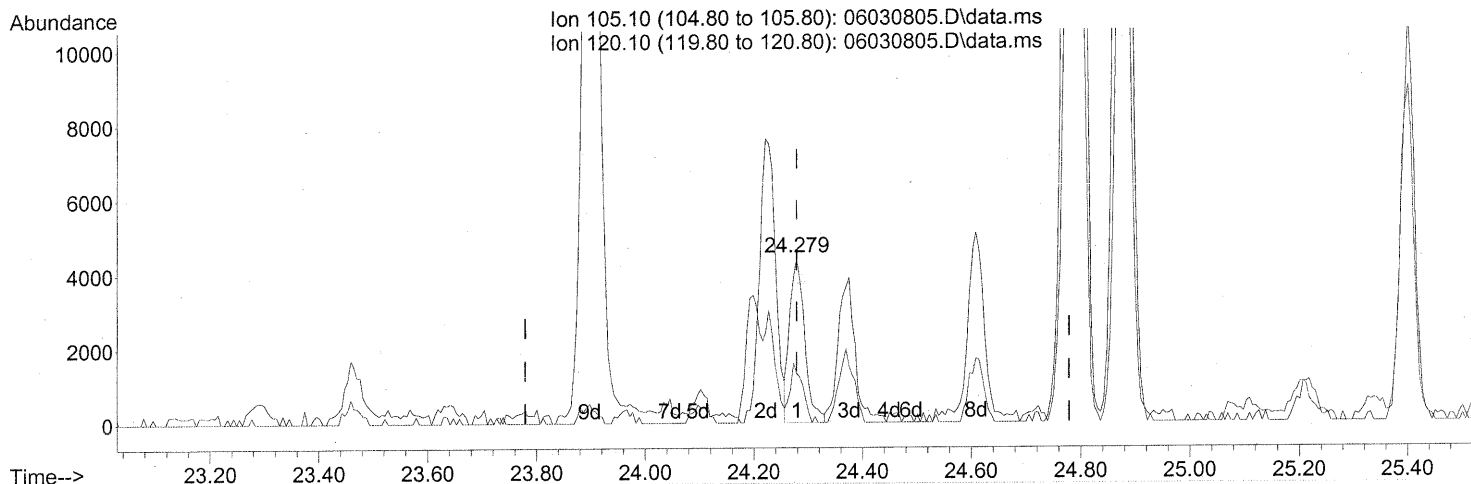
(70) o-Xylene (T)  
 22.719min (+0.006) 0.40ng  
 response 28054

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	50.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.09ng

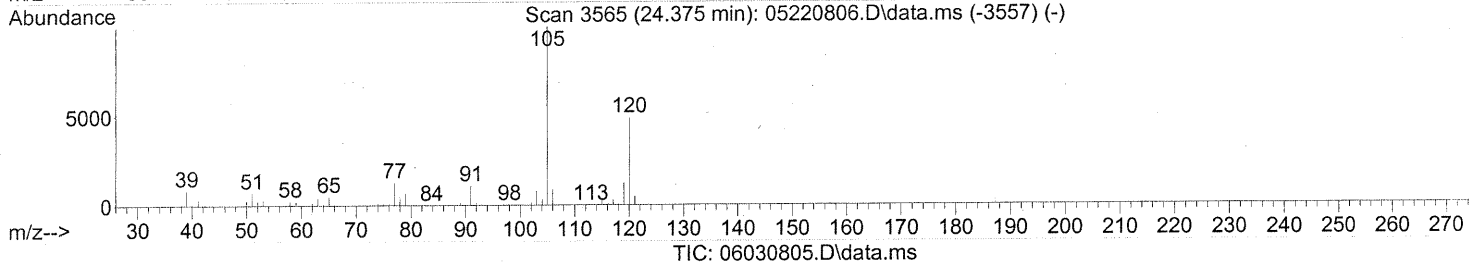
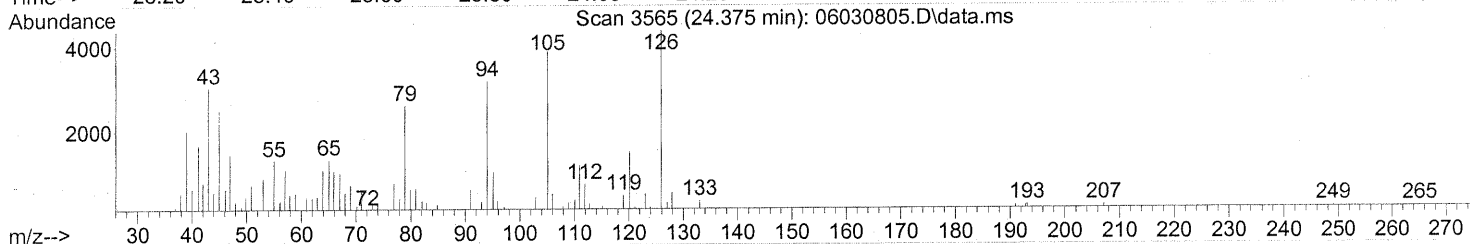
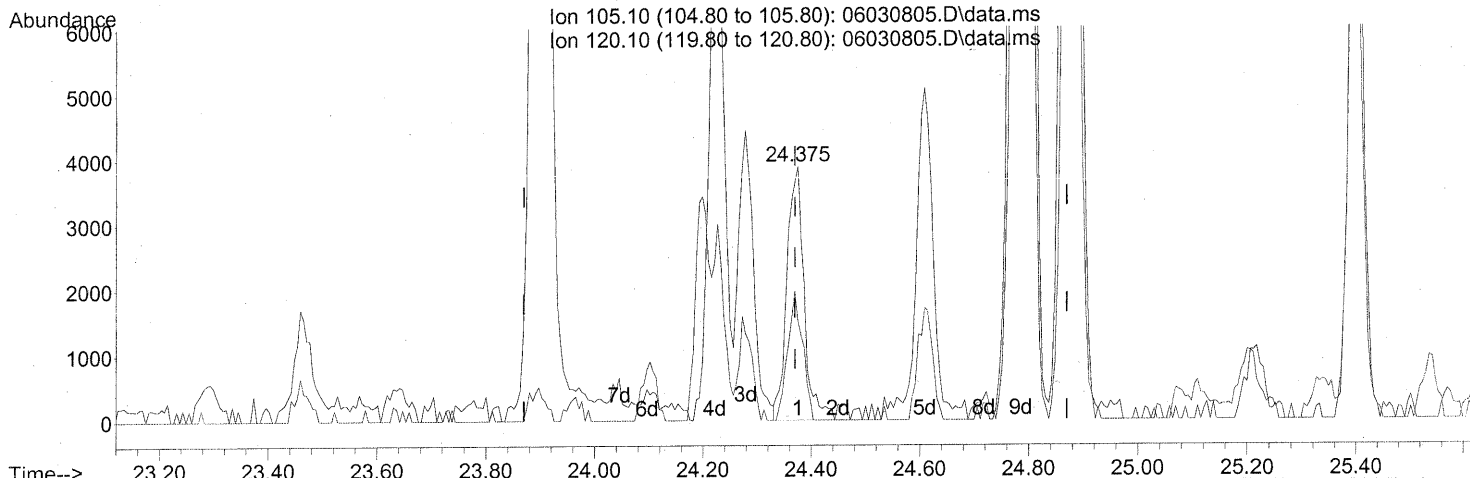
response 8491

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	30.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.375min (+0.006) 0.10ng

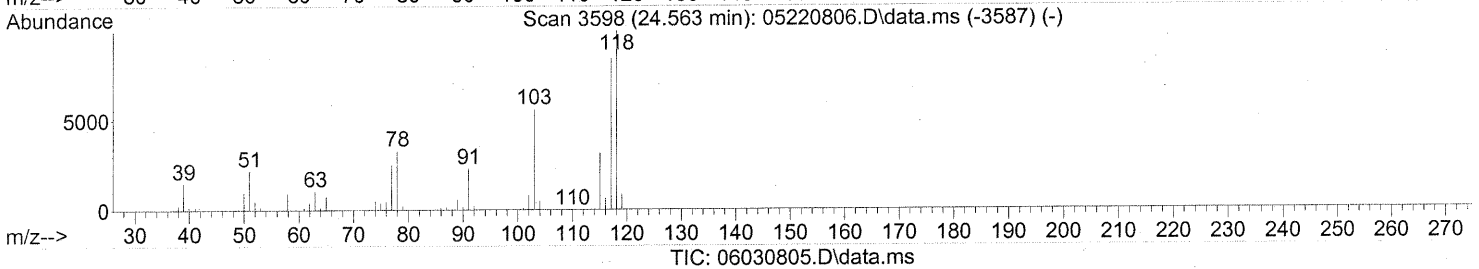
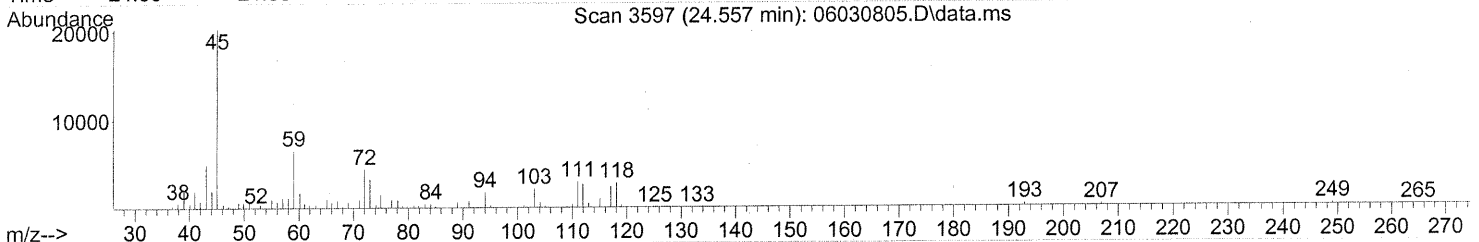
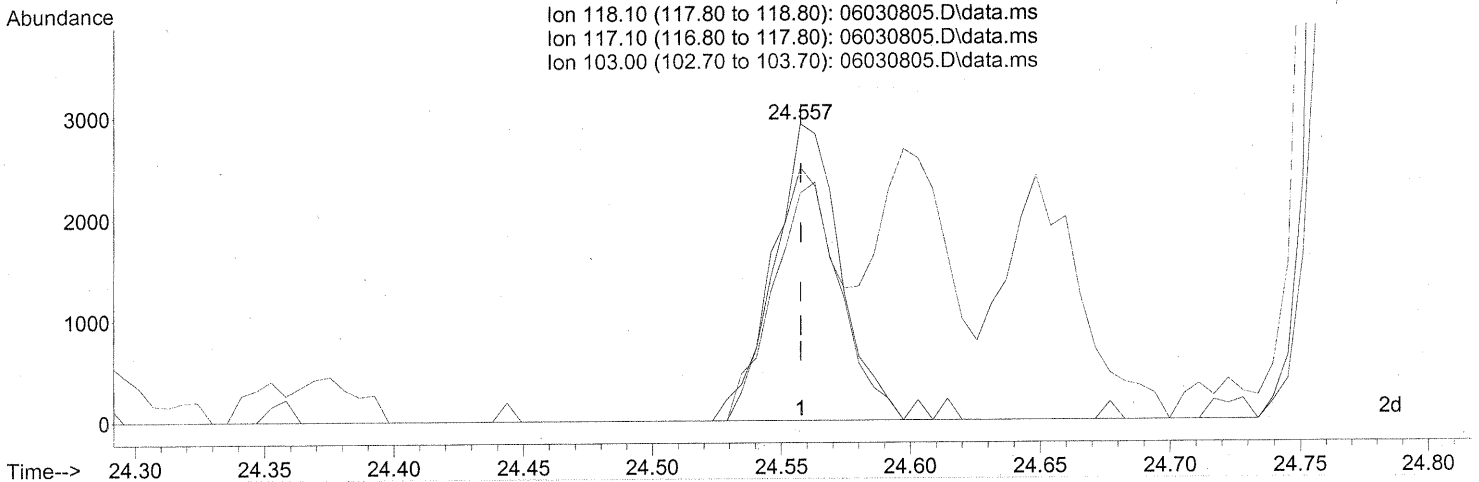
response 8493

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	44.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

BEFORE SUBTRACTION

24.557min (-0.000) 0.12ng

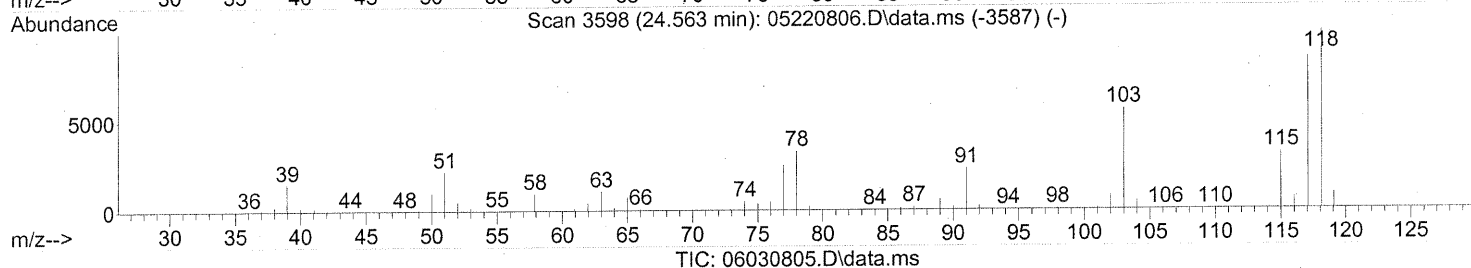
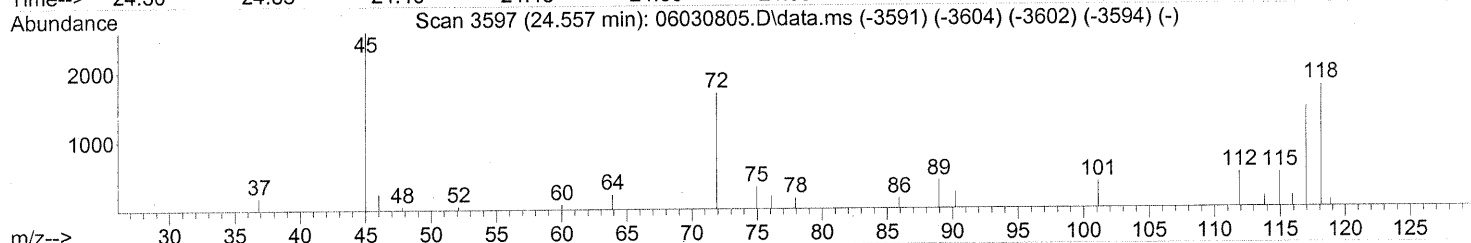
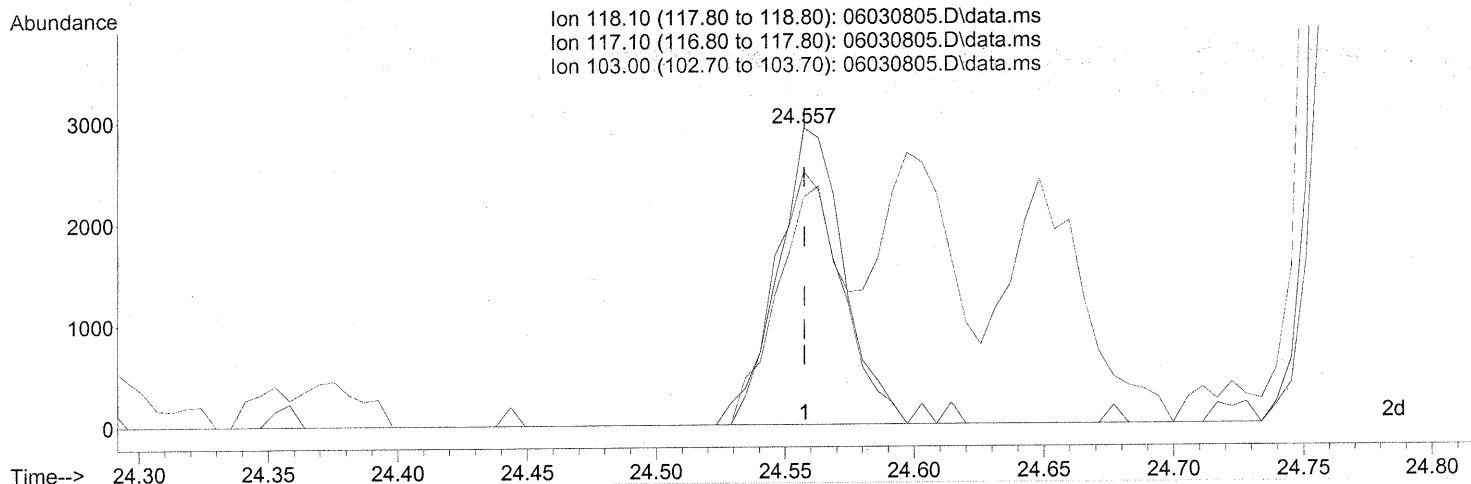
response 5198

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	87.63
103.00	55.30	84.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.557min (-0.000) 0.12ng

response 5198

Ion	Exp%	Act%
118.10	100	100
117.10	84.10	87.63
103.00	55.30	84.55#
0.00	0.00	0.00

AFTER SUBTRACTION

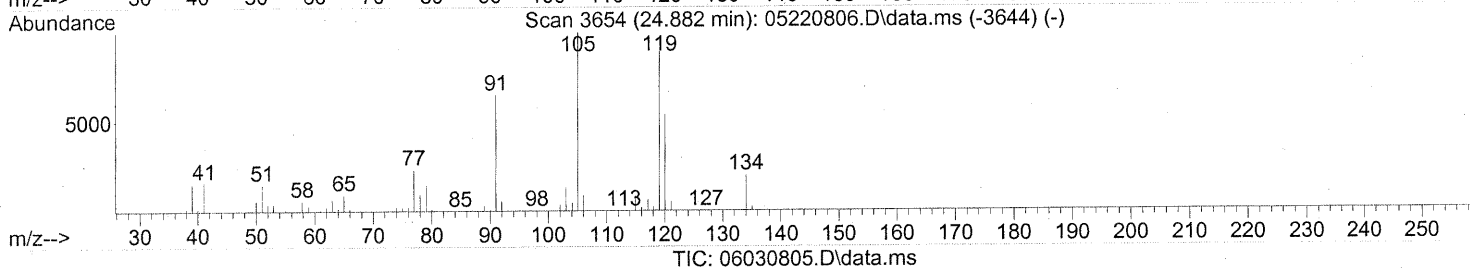
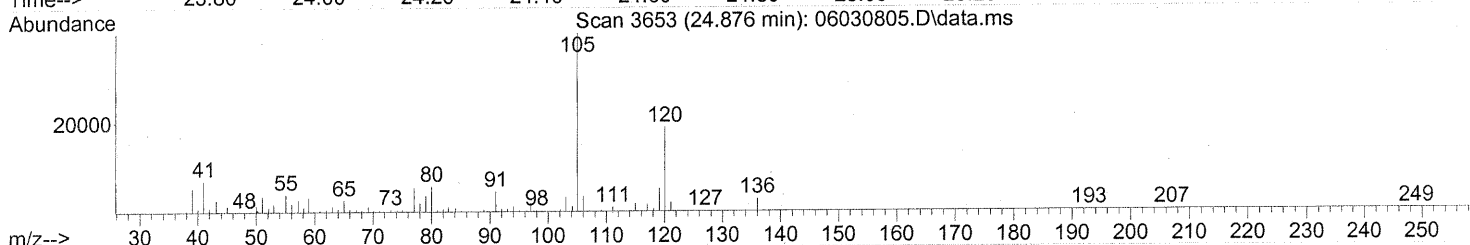
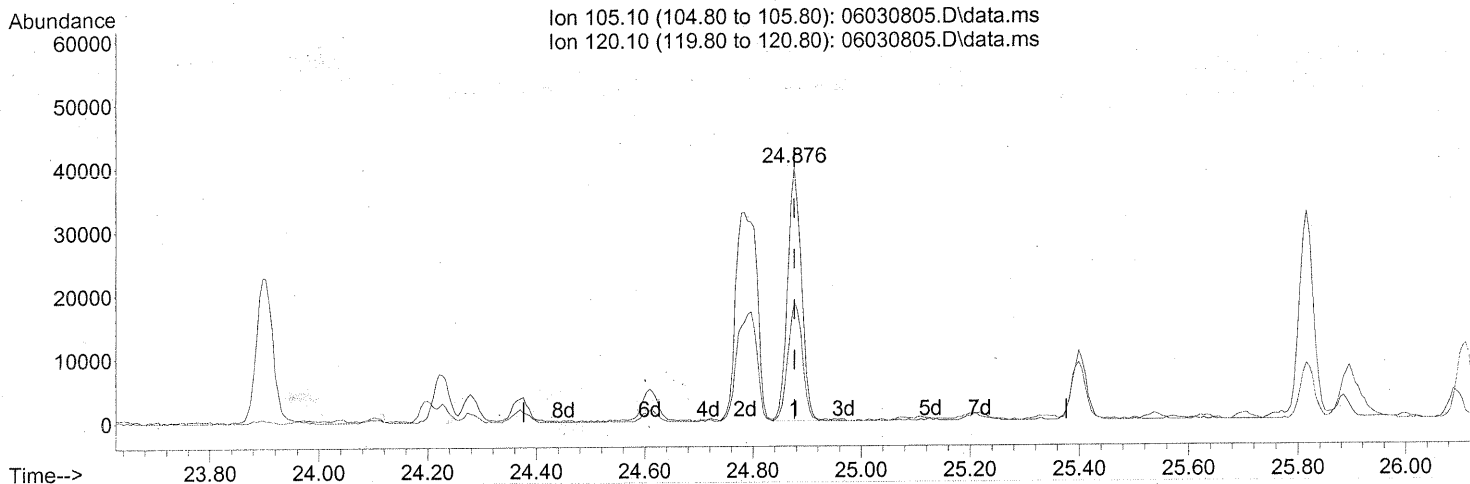
6/8/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 0.84ng

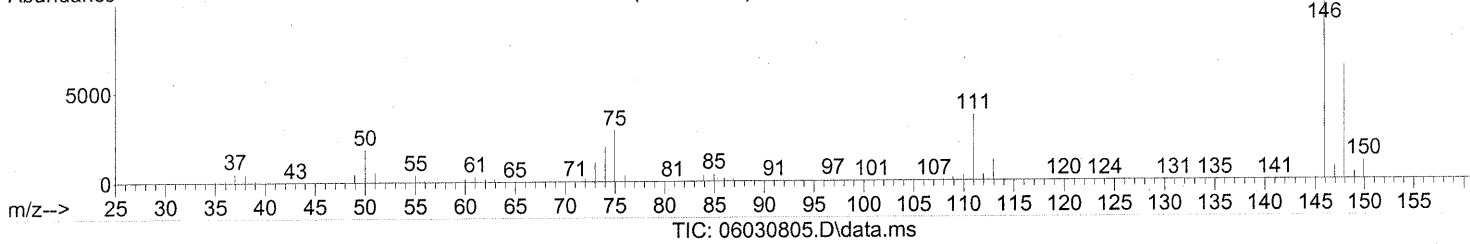
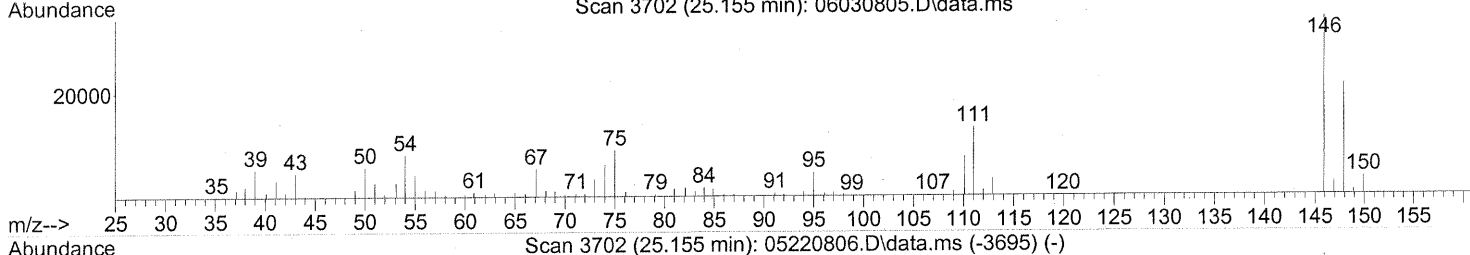
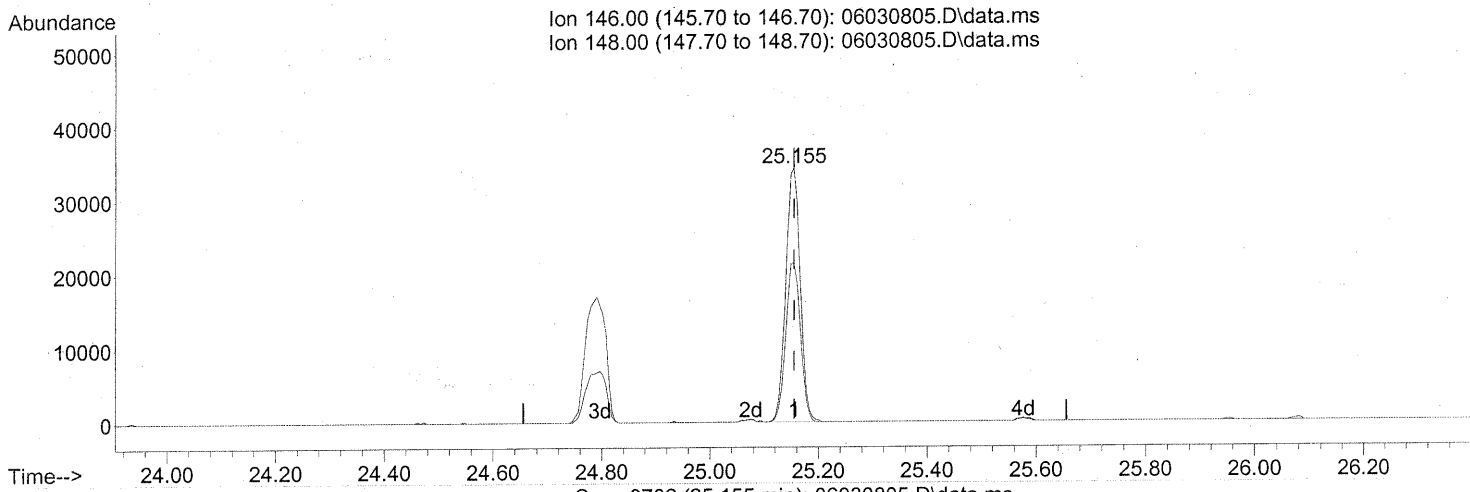
response 70730

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	48.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 1.23ng

response 63126

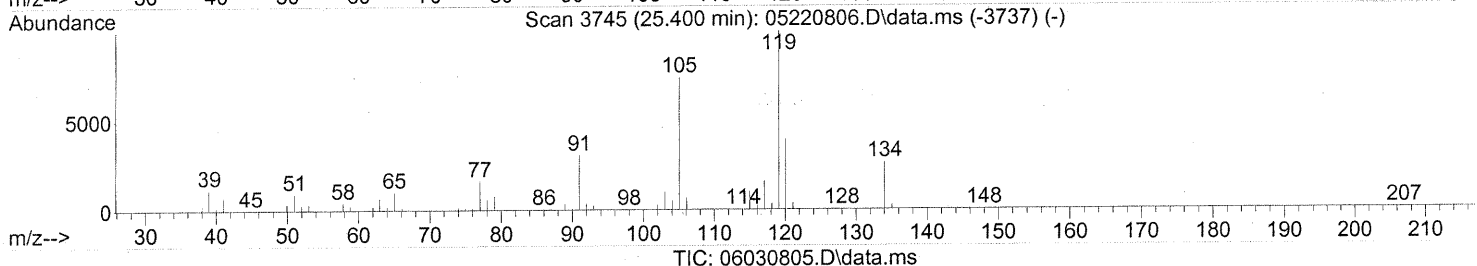
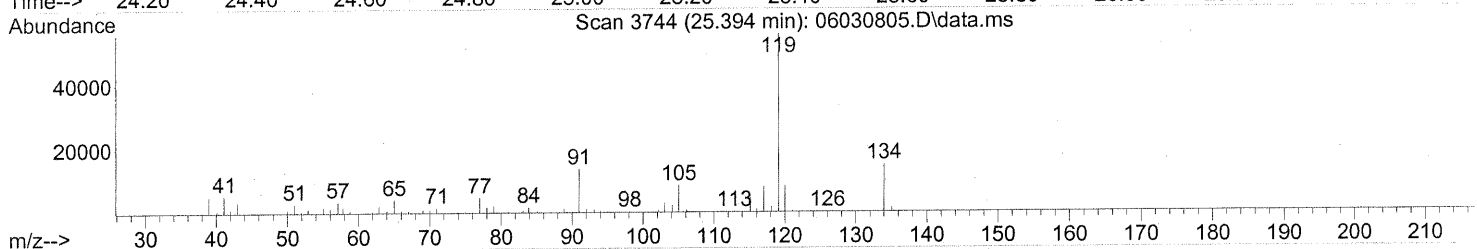
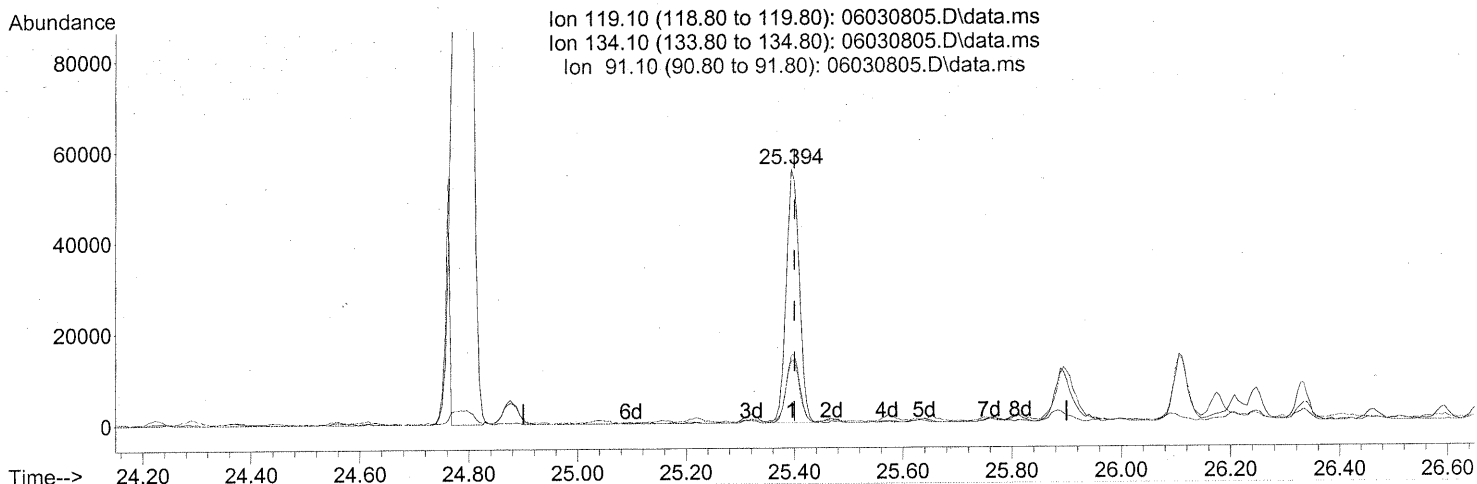
Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.77
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 1.05ng

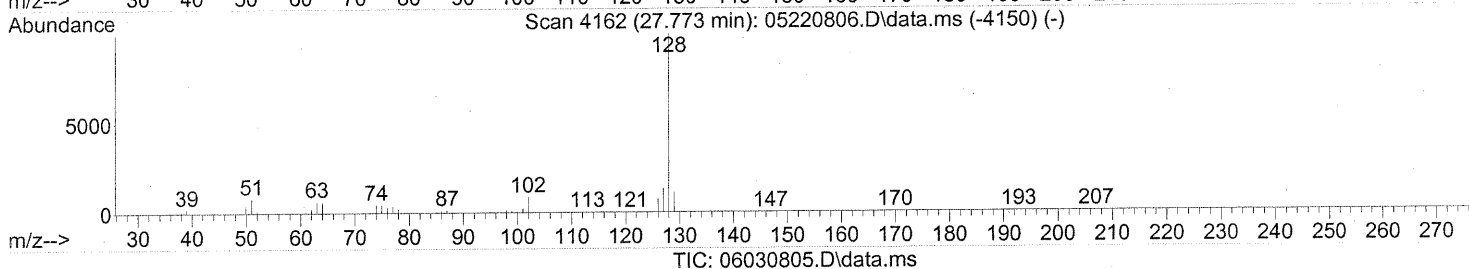
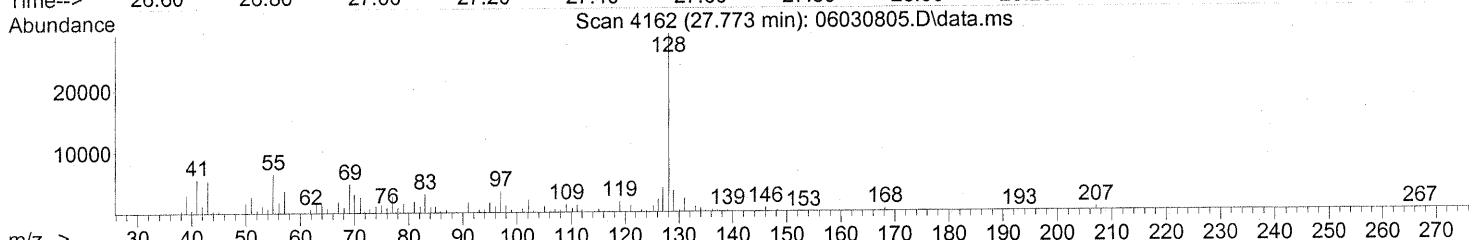
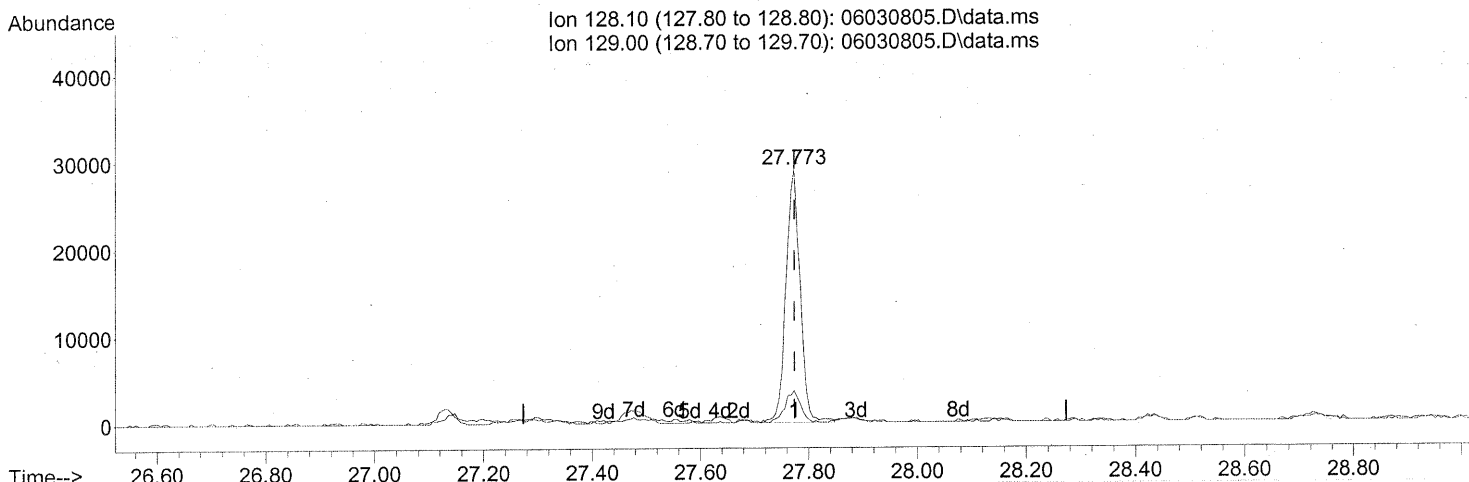
response 93599

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	27.73
91.10	27.10	25.31
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 15:10:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(95) Naphthalene (T)

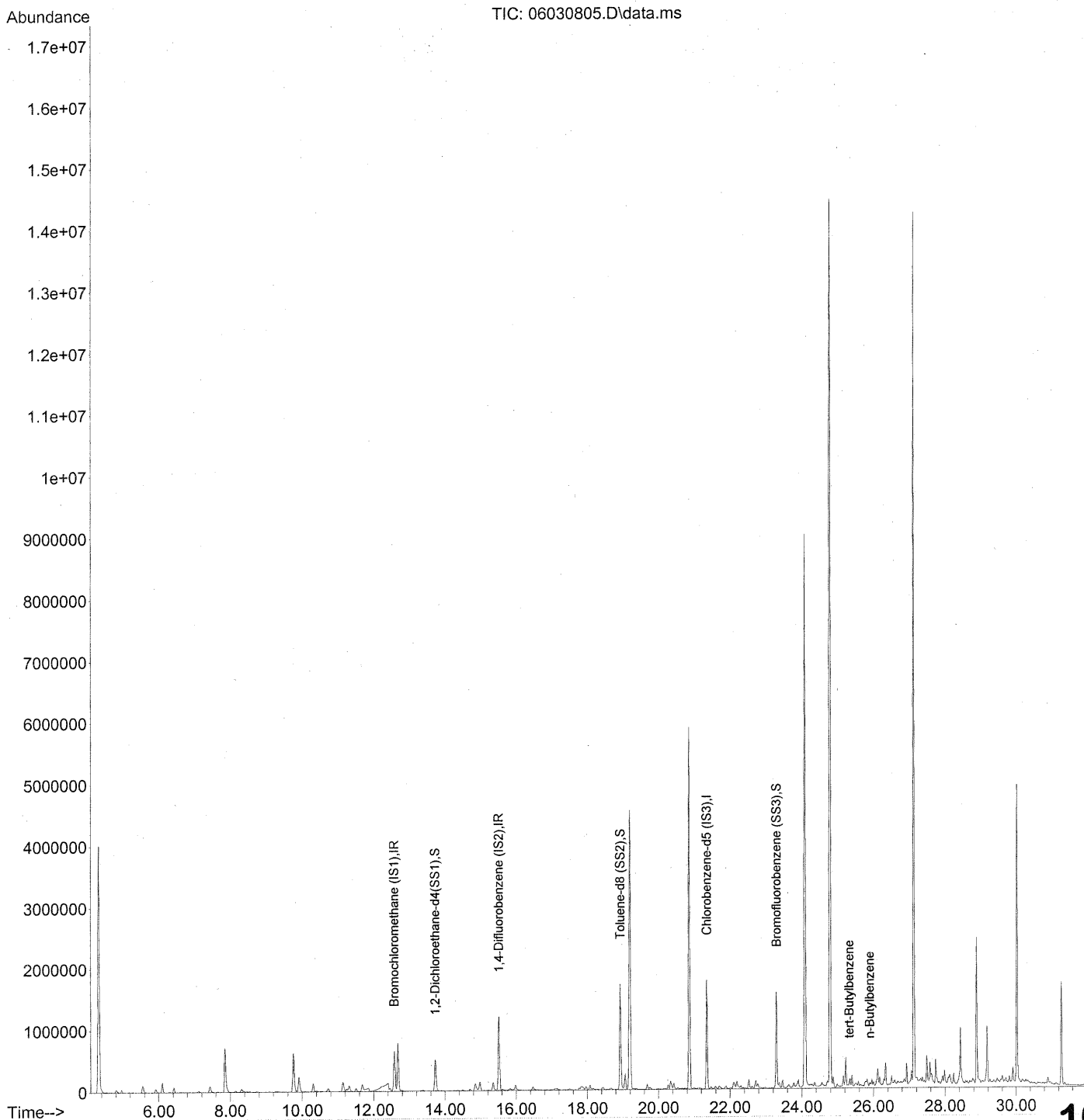
27.773min (-0.000) 0.47ng

response 52278

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	13.58
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030805.D  
Acq On : 3 Jun 2008 12:27 pm  
Operator : RTB  
Sample : P0801548-016 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, 3.5)  
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:23:06 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:23:06 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	339626	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1435581	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	687240	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	521009	22.140	ng	-0.02
Spiked Amount	25.000			Recovery	=	88.56% ✓
5) Toluene-d8 (SS2)	18.93	98	1472517	23.858	ng	-0.01
Spiked Amount	25.000			Recovery	=	95.44% ✓
6) Bromofluorobenzene (SS3)	23.29	174	608272	24.235	ng	0.00
Spiked Amount	25.000			Recovery	=	96.96% ✓
Target Compounds						
7) tert-Butylbenzene	25.32	119	3258	<del>0.040 ng</del>		92
8) n-Butylbenzene	25.89	91	30311	0.340 ng	#	57

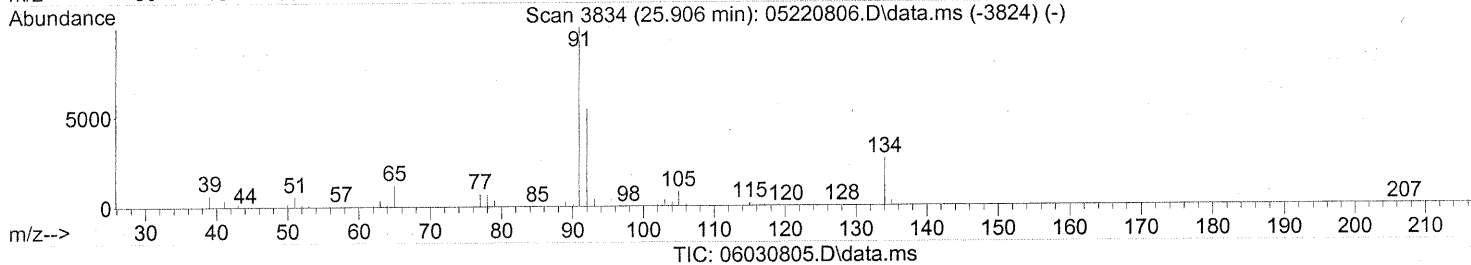
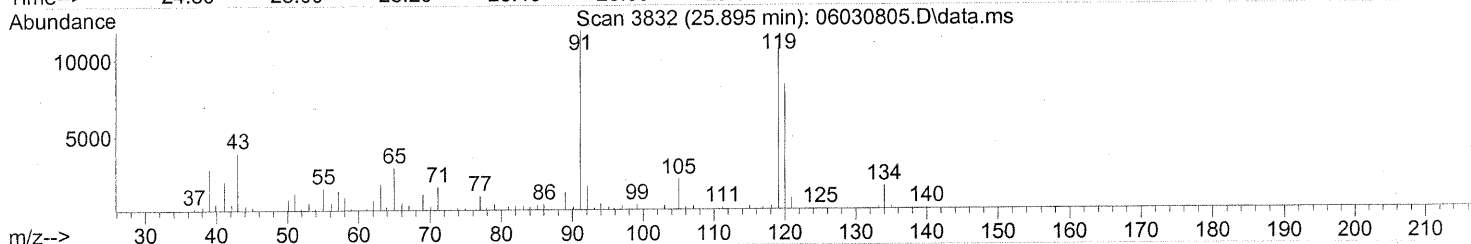
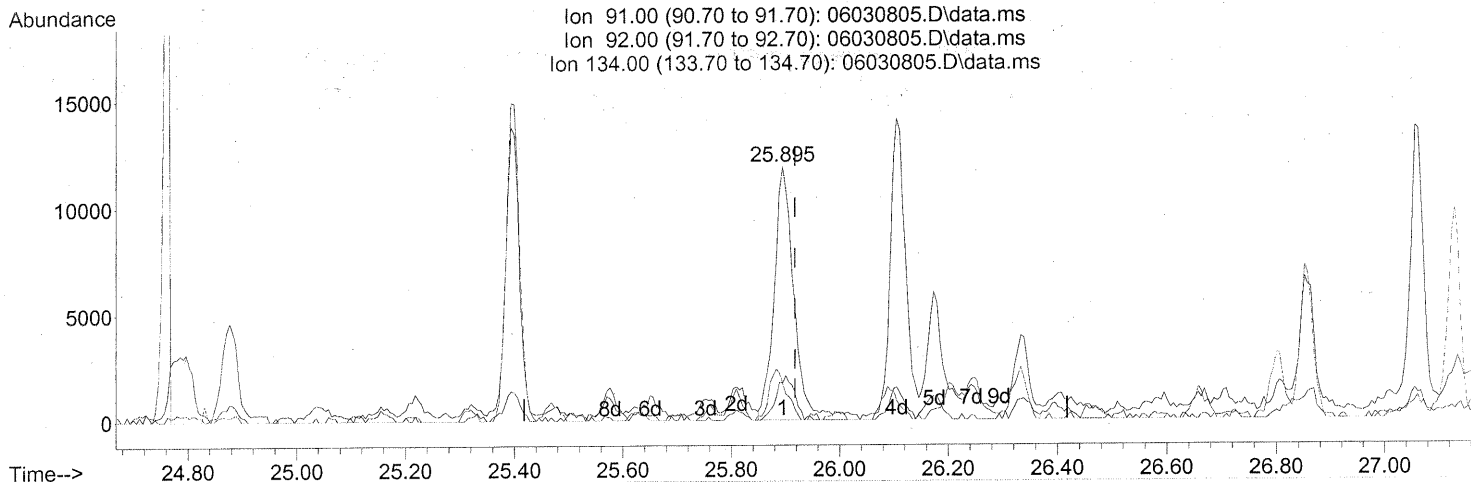
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*For 05/06*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030805.D  
 Acq On : 3 Jun 2008 12:27 pm  
 Operator : RTB  
 Sample : P0801548-016 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5)  
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 08 17:23:06 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.895min (-0.023) 0.34ng

response 30311

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	16.00#
134.00	28.80	17.39#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-017

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00908

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	2.0	0.75	0.075	0.40	0.15	0.015	
74-87-3	Chloromethane	ND	0.15	0.075	ND	0.072	0.036	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.085	0.75	0.075	0.012	0.11	0.011	J
75-01-4	Vinyl Chloride	ND	0.15	0.075	ND	0.058	0.029	
74-83-9	Bromomethane	ND	0.15	0.075	ND	0.038	0.019	
75-00-3	Chloroethane	ND	0.15	0.075	ND	0.056	0.028	
64-17-5	Ethanol	2.2	7.5	0.075	1.2	4.0	0.040	J
67-64-1	Acetone	12	7.5	0.11	5.2	3.1	0.046	B
75-69-4	Trichlorofluoromethane	1.3	0.15	0.075	0.23	0.027	0.013	
107-13-1	Acrylonitrile	ND	0.75	0.10	ND	0.34	0.048	
75-35-4	1,1-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.30	0.75	0.11	0.097	0.25	0.036	J
75-09-2	Methylene Chloride	0.097	0.75	0.075	0.028	0.21	0.021	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.075	ND	0.048	0.024	
76-13-1	Trichlorotrifluoroethane	0.46	0.15	0.083	0.060	0.019	0.011	
75-15-0	Carbon Disulfide	10	0.75	0.18	3.2	0.24	0.057	
156-60-5	trans-1,2-Dichloroethene	ND	0.15	0.075	ND	0.038	0.019	
75-34-3	1,1-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
1634-04-4	Methyl tert-Butyl Ether	ND	0.15	0.075	ND	0.041	0.021	
108-05-4	Vinyl Acetate	2.4	7.5	0.24	0.68	2.1	0.068	J
78-93-3	2-Butanone (MEK)	2.9	0.75	0.075	1.0	0.25	0.025	
156-59-2	cis-1,2-Dichloroethene	0.14	0.15	0.075	0.036	0.038	0.019	J
108-20-3	Diisopropyl Ether	ND	0.75	0.088	ND	0.18	0.021	
67-66-3	Chloroform	36	0.15	0.088	7.3	0.031	0.018	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:          Date: 6/10/08 **1014**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-017

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00908

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.75	0.076	ND	0.18	0.018	
107-06-2	1,2-Dichloroethane	ND	0.15	0.075	ND	0.037	0.018	
71-55-6	1,1,1-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
71-43-2	<b>Benzene</b>	<b>2.4</b>	0.15	0.075	<b>0.75</b>	0.047	0.023	
56-23-5	<b>Carbon Tetrachloride</b>	<b>3.5</b>	0.15	0.075	<b>0.56</b>	0.024	0.012	
994-05-8	tert-Amyl Methyl Ether	ND	0.75	0.075	ND	0.18	0.018	
78-87-5	1,2-Dichloropropane	ND	0.15	0.075	ND	0.032	0.016	
75-27-4	<b>Bromodichloromethane</b>	<b>0.14</b>	0.15	0.075	<b>0.020</b>	0.022	0.011	<b>J</b>
79-01-6	<b>Trichloroethene</b>	<b>18</b>	0.15	0.075	<b>3.3</b>	0.028	0.014	
123-91-1	1,4-Dioxane	ND	0.75	0.091	ND	0.21	0.025	
80-62-6	Methyl Methacrylate	ND	0.75	0.11	ND	0.18	0.027	
142-82-5	<b>n-Heptane</b>	<b>0.14</b>	0.75	0.095	<b>0.033</b>	0.18	0.023	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	0.75	0.077	ND	0.16	0.017	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>2.5</b>	0.75	0.083	<b>0.62</b>	0.18	0.020	
10061-02-6	trans-1,3-Dichloropropene	ND	0.75	0.094	ND	0.16	0.021	
79-00-5	1,1,2-Trichloroethane	ND	0.15	0.075	ND	0.027	0.014	
108-88-3	<b>Toluene</b>	<b>1.8</b>	0.75	0.075	<b>0.47</b>	0.20	0.020	
591-78-6	<b>2-Hexanone</b>	<b>0.42</b>	0.75	0.11	<b>0.10</b>	0.18	0.028	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.15	0.10	ND	0.017	0.012	
106-93-4	1,2-Dibromoethane	ND	0.15	0.080	ND	0.019	0.010	
111-65-9	<b>n-Octane</b>	<b>0.43</b>	0.75	0.075	<b>0.092</b>	0.16	0.016	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>9.1</b>	0.15	0.075	<b>1.3</b>	0.022	0.011	
108-90-7	Chlorobenzene	ND	0.15	0.076	ND	0.032	0.017	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08 **1015**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG45B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-017

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00908

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.4      Final Pressure (psig): 3.6

Canister Dilution Factor: 1.49

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	0.85	0.75	0.092	0.20	0.17	0.021	
179601-23-1	m,p-Xylenes	3.7	0.75	0.19	0.85	0.17	0.045	
75-25-2	Bromoform	ND	0.75	0.11	ND	0.072	0.011	
100-42-5	Styrene	0.13	0.75	0.11	0.031	0.18	0.027	J
95-47-6	o-Xylene	1.4	0.75	0.094	0.33	0.17	0.022	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.15	0.095	ND	0.022	0.014	
98-82-8	Cumene	ND	0.75	0.083	ND	0.15	0.017	
103-65-1	n-Propylbenzene	0.24	0.75	0.077	0.048	0.15	0.016	J
622-96-8	4-Ethyltoluene	0.25	0.75	0.085	0.051	0.15	0.017	J
108-67-8	1,3,5-Trimethylbenzene	0.38	0.75	0.089	0.078	0.15	0.018	J
98-83-9	alpha-Methylstyrene	ND	0.75	0.11	ND	0.15	0.023	
95-63-6	1,2,4-Trimethylbenzene	0.77	0.75	0.10	0.16	0.15	0.021	
100-44-7	Benzyl Chloride	ND	0.15	0.13	ND	0.029	0.025	
541-73-1	1,3-Dichlorobenzene	ND	0.15	0.092	ND	0.025	0.015	
106-46-7	1,4-Dichlorobenzene	4.2	0.15	0.083	0.70	0.025	0.014	
135-98-8	sec-Butylbenzene	ND	0.75	0.086	ND	0.14	0.016	
99-87-6	4-Isopropyltoluene (p-Cymene)	1.5	0.75	0.097	0.27	0.14	0.018	
95-50-1	1,2-Dichlorobenzene	ND	0.15	0.098	ND	0.025	0.016	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.75	0.11	ND	0.077	0.012	
120-82-1	1,2,4-Trichlorobenzene	ND	0.15	0.11	ND	0.020	0.015	
91-20-3	Naphthalene	1.3	0.30	0.11	0.26	0.057	0.021	
87-68-3	Hexachlorobutadiene	ND	0.15	0.13	ND	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.30	0.075	ND	0.054	0.014	
104-51-8	n-Butylbenzene	0.24	0.30	0.075	0.044	0.054	0.014	J

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

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

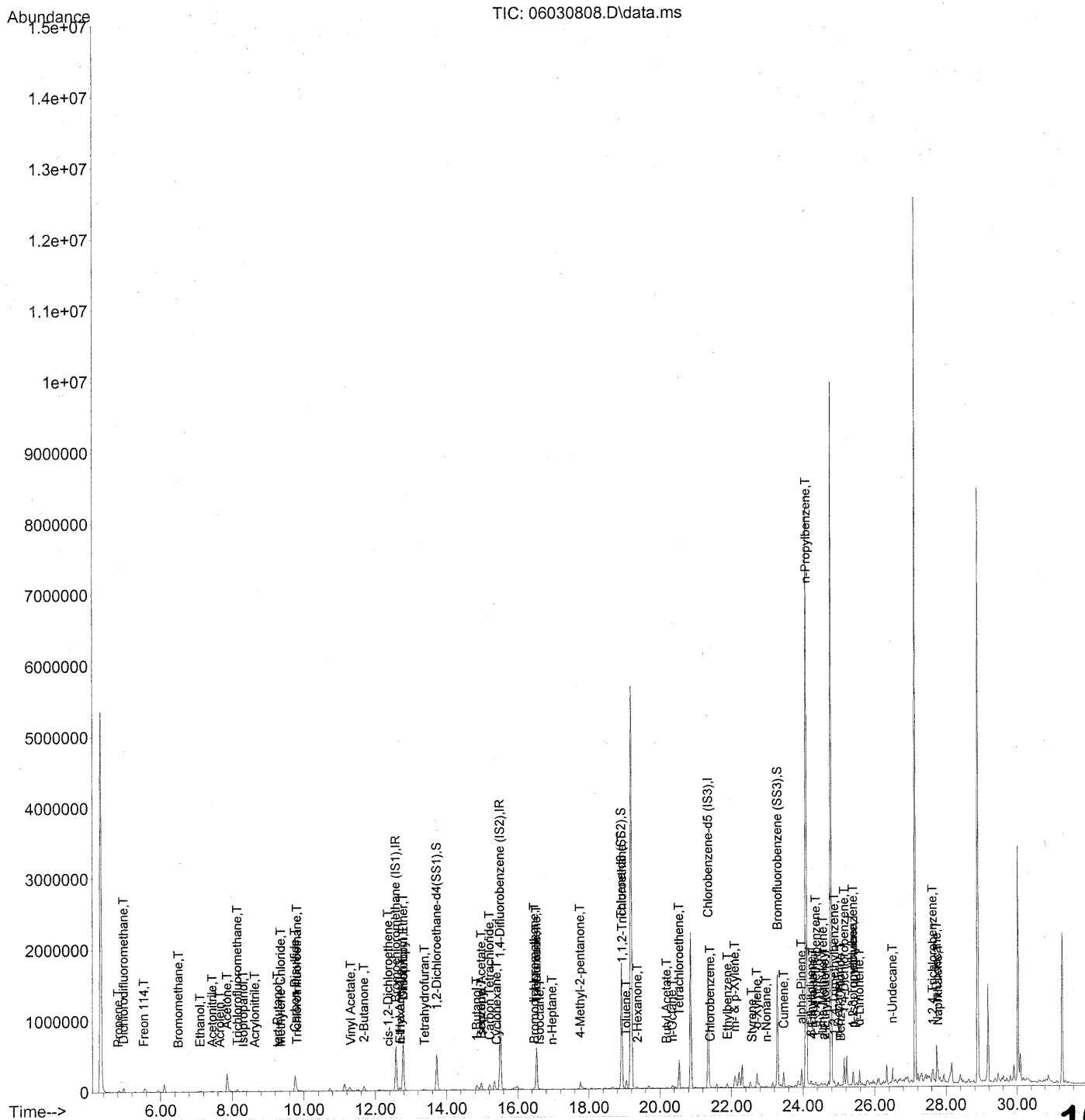
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08 **1016**



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SGB-05 (-4.5, 3.5)  
 ALS Vial : 1 Sample Multiplier: 1

(-2.4, 3.6)

45 on 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	330687	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1449298	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	693269	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	526466	22.977	ng	0.00
Spiked Amount	25.000		Recovery	=	91.92%	✓
57) Toluene-d8 (SS2)	18.92	98	1497769	24.056	ng	0.00
Spiked Amount	25.000		Recovery	=	96.24%	✓
73) Bromofluorobenzene (SS3)	23.29	174	626549	24.746	ng	0.00
Spiked Amount	25.000		Recovery	=	99.00%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.81	42	8473	0.324	ng	# 64
3) Dichlorodifluoromethane	4.97	85	64311	1.336	ng	98
4) Chloromethane	5.31	50	68	N.D.	✓	
5) Freon 114	5.53	135	1342	0.057	ng	95
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.02	54	780	N.D.		
8) Bromomethane	6.49	94	753	<del>0.043</del>	ng	# 56
9) Chloroethane	6.83	64	68	N.D.	✓	
10) Ethanol	7.10	45	25619m	1.473	ng	
11) Acetonitrile	7.44	41	15565	0.310	ng	74
12) Acrolein	7.65	56	8223	0.662	ng	94
13) Acetone	7.85	58	146714	8.242	ng	# 73
14) Trichlorofluoromethane	8.14	101	36146	0.875	ng	98
15) Isopropanol	8.32	45	22127	0.390	ng	91
16) Acrylonitrile	8.63	53	1114	<del>0.041</del>	ng	# 8
17) 1,1-Dichloroethene	9.17	96	149	N.D.	✓	
18) tert-Butanol	9.27	59	9557m	0.198	ng	
19) Methylene Chloride	9.36	84	1284	0.065	ng	84
20) Allyl Chloride	9.54	41	485	N.D.	✓	
21) Trichlorotrifluoroethane	9.81	151	5828	0.310	ng	96
22) Carbon Disulfide	9.76	76	511721	6.778	ng	99
23) trans-1,2-Dichloroethene	10.75	61	51	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	819	N.D.	✓	
25) Methyl tert-Butyl Ether	11.18	73	155	N.D.	✓	
26) Vinyl Acetate	11.31	86	5275	1.603	ng	# 10
27) 2-Butanone	11.68	72	25607	1.971	ng	# 88
28) cis-1,2-Dichloroethene	12.36	61	2742	0.097	ng	# 21
29) Diisopropyl Ether	12.78	87	73436	<del>4.613</del>	ng	# 1
30) Ethyl Acetate	12.69	61	8592	1.225	ng	79
31) n-Hexane	12.70	57	3179	0.090	ng	87

1018

6/6/08/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SGB-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1  
 45 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	720365	23.889	ng	99
34) Tetrahydrofuran	13.38	72	4293	0.346	ng #	76
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	✓	
36) 1,2-Dichloroethane	13.88	62	68	N.D.	✓	
38) 1,1,1-Trichloroethane	14.29	97	1304	N.D.	✓	
39) Isopropyl Acetate	14.98	61	588	0.047	ng #	1
40) 1-Butanol	14.84	56	74347	3.732	ng	87
41) Benzene	14.97	78	122539	1.615	ng	99
42) Carbon Tetrachloride	15.21	117	68923	2.358	ng	98
43) Cyclohexane	15.41	84	2327	0.079	ng #	1
44) tert-Amyl Methyl Ether	15.87	73	197	N.D.	✓	
45) 1,2-Dichloropropane	16.19	63	61	N.D.	✓	
46) Bromodichloromethane	16.46	83	2338	0.091	ng	88
47) Trichloroethene	16.53	130	274430	11.789	ng	100
48) 1,4-Dioxane	16.53	88	645	0.045	ng #	39
49) Isooctane	16.62	57	7388	0.085	ng #	18
50) Methyl Methacrylate	16.82	100	56	N.D.	✓	
51) n-Heptane	16.97	71	1858	0.092	ng #	80
52) cis-1,3-Dichloropropene	17.82	75	200	N.D.	✓	
53) 4-Methyl-2-pentanone	17.76	58	34366	1.706	ng	77
54) trans-1,3-Dichloropropene	18.43	75	374	N.D.	✓	
55) 1,1,2-Trichloroethane	18.94	97	130370	6.952	ng #	8
58) Toluene	19.05	91	101124	1.195	ng	98
59) 2-Hexanone	19.37	43	16474	0.282	ng	83
60) Dibromochloromethane	19.61	129	626	N.D.	✓	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	✓	
62) Butyl Acetate	20.19	43	7869	0.133	ng	93
63) n-Octane	20.35	57	5403	0.289	ng	86
64) Tetrachloroethene	20.54	166	152357	6.084	ng	99
65) Chlorobenzene	21.40	112	2503	0.044	ng	80
66) Ethylbenzene	21.89	91	55409	0.571	ng	95
67) m- & p-Xylene	22.09	91	160852	2.478	ng	91
68) Bromoform	22.22	173	180	N.D.	✓	
69) Styrene	22.57	104	5098	0.088	ng	93
70) o-Xylene	22.71	91	66705	0.952	ng	96
71) n-Nonane	22.98	43	9923	0.199	ng #	75
72) 1,1,2,2-Tetrachloroethane	22.69	83	91	N.D.	✓	
74) Cumene	23.46	105	5023	0.054	ng	72
75) alpha-Pinene	23.96	93	120280	2.493	ng	98
76) n-Propylbenzene	24.10	91	18732	0.158	ng #	1
77) 3-Ethyltoluene	24.23	105	35292	0.355	ng	100
78) 4-Ethyltoluene	24.28	105	15671	0.169	ng	93
79) 1,3,5-Trimethylbenzene	24.36	105	21436	0.256	ng	100

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6/6/08/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SGE0B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45 *ca 6/10/08*  
 Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	2614	<del>0.058 ng</del>	#	71
81) 2-Ethyltoluene	<del>24.61</del>	105	16534	0.164 ng		97
82) 1,2,4-Trimethylbenzene	24.88	105	43990	0.517 ng		89
83) n-Decane	24.98	57	23786	0.508 ng		71
84) Benzyl Chloride	25.05	91	2671	<del>0.047 ng</del>		82
85) 1,3-Dichlorobenzene	25.08	146	1822	N.D. ✓		
86) 1,4-Dichlorobenzene	25.16	146	145450	2.818 ng		99
87) sec-Butylbenzene	25.21	105	2759	N.D. ✓		
88) p-Isopropyltoluene	25.39	119	89792	1.002 ng		100
89) 1,2,3-Trimethylbenzene	25.40	105	27042	0.325 ng		76
90) 1,2-Dichlorobenzene	25.57	146	1643	N.D. ✓		
91) d-Limonene	25.57	68	56542	1.666 ng		93
92) 1,2-Dibromo-3-Chloropr...	26.11	157	271	N.D. ✓		
93) n-Undecane	26.50	57	85110	1.735 ng	#	66
94) 1,2,4-Trichlorobenzene	<del>27.62</del>	180	2629	<del>0.071 ng</del>		94
95) Naphthalene	27.77	128	101147	0.900 ng		92
96) n-Dodecane	27.73	57	177190	3.633 ng		81
97) Hexachloro-1,3-butadiene	28.19	225	329	N.D. ✓		

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

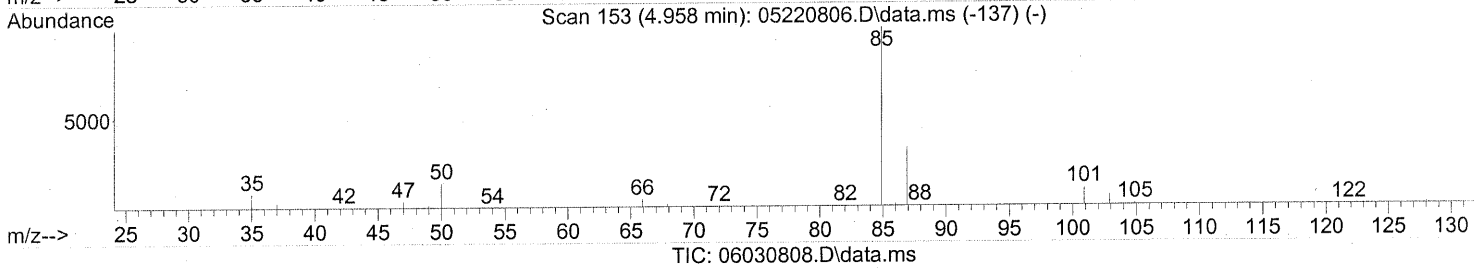
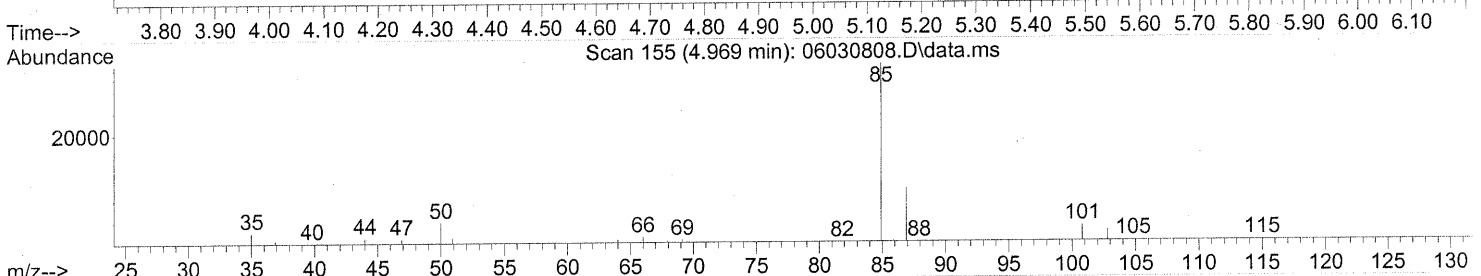
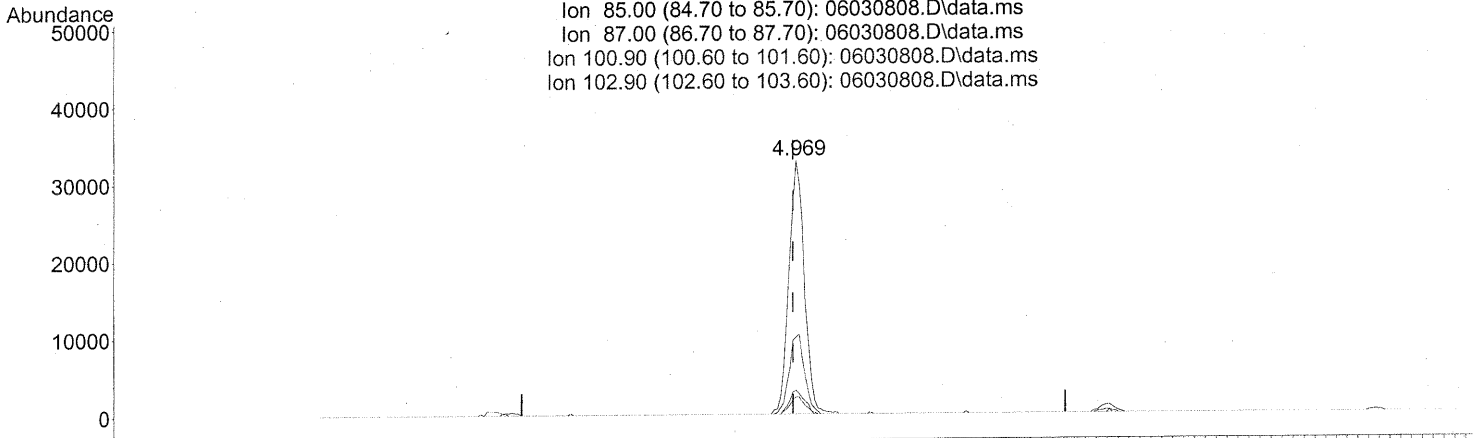
*6/10/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.34ng

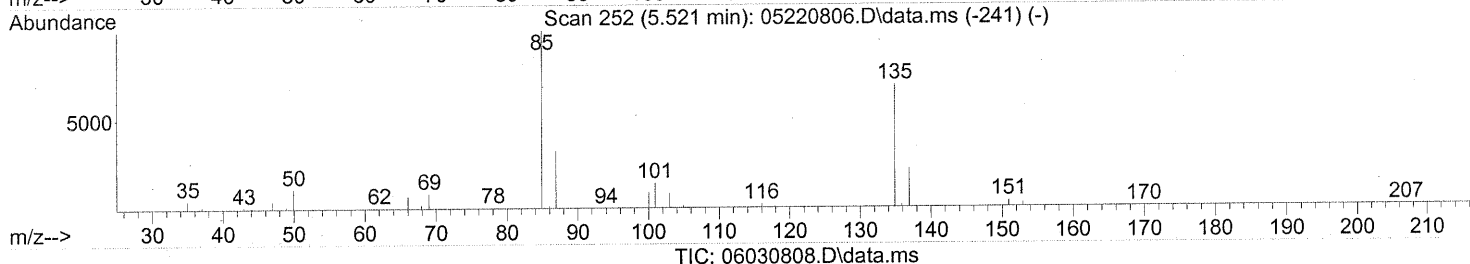
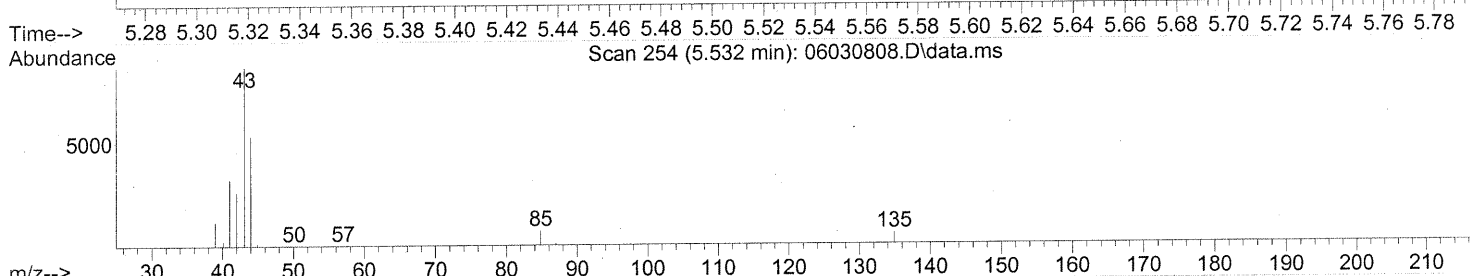
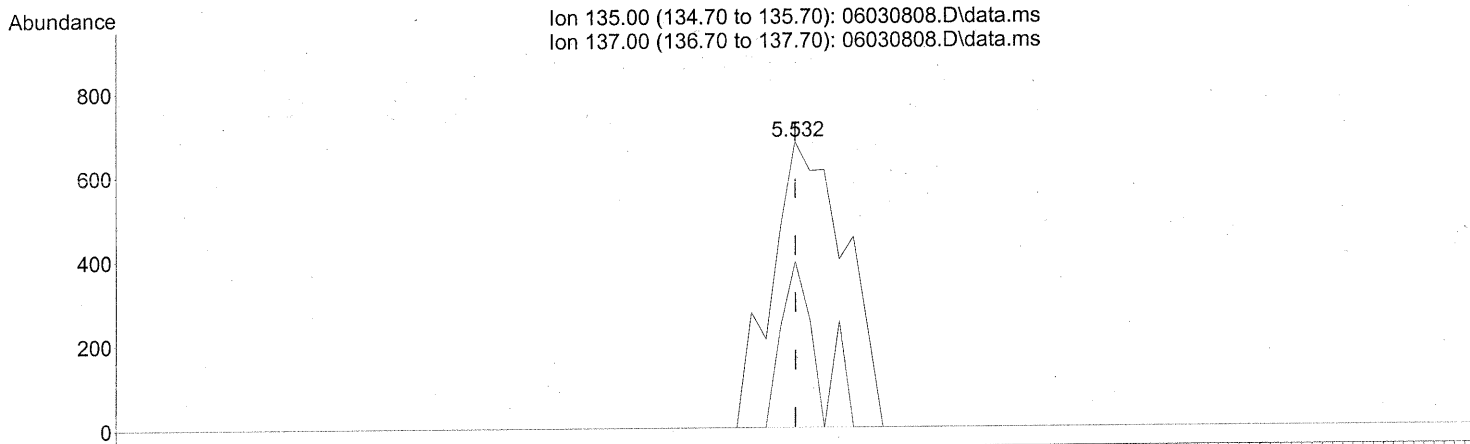
response 64311

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.27
100.90	9.30	9.07
102.90	6.00	6.35

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1  
*45* *Call 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)

5.532min (-0.000) 0.06ng

response 1342

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	28.91
0.00	0.00	0.00
0.00	0.00	0.00

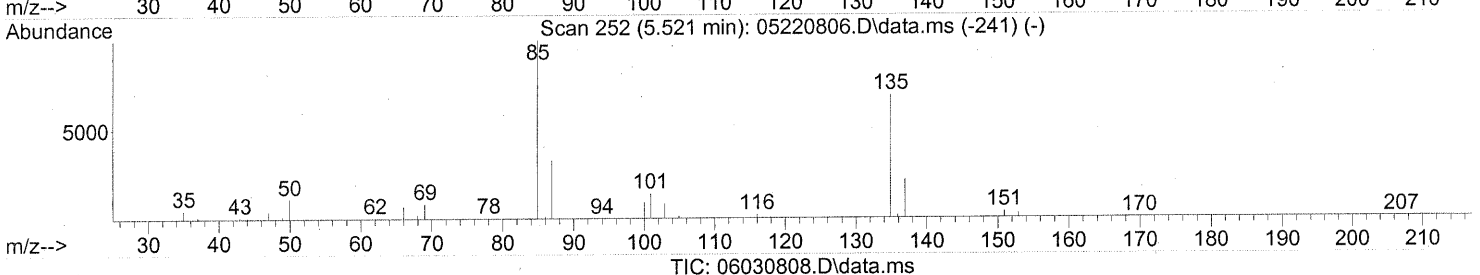
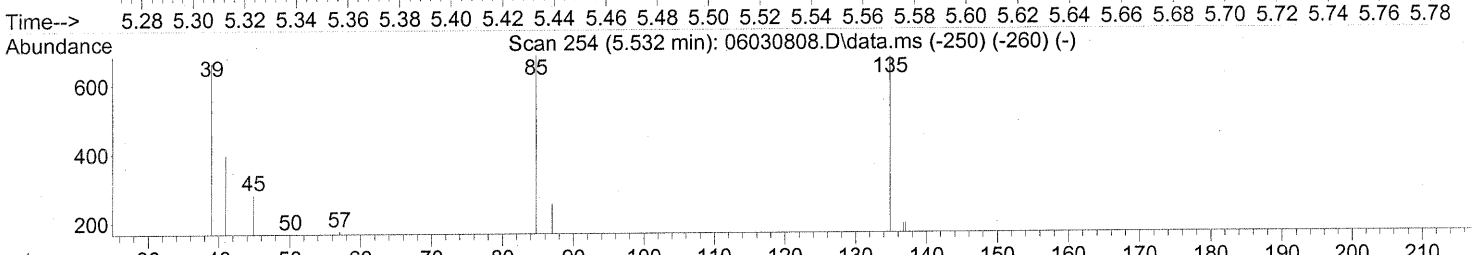
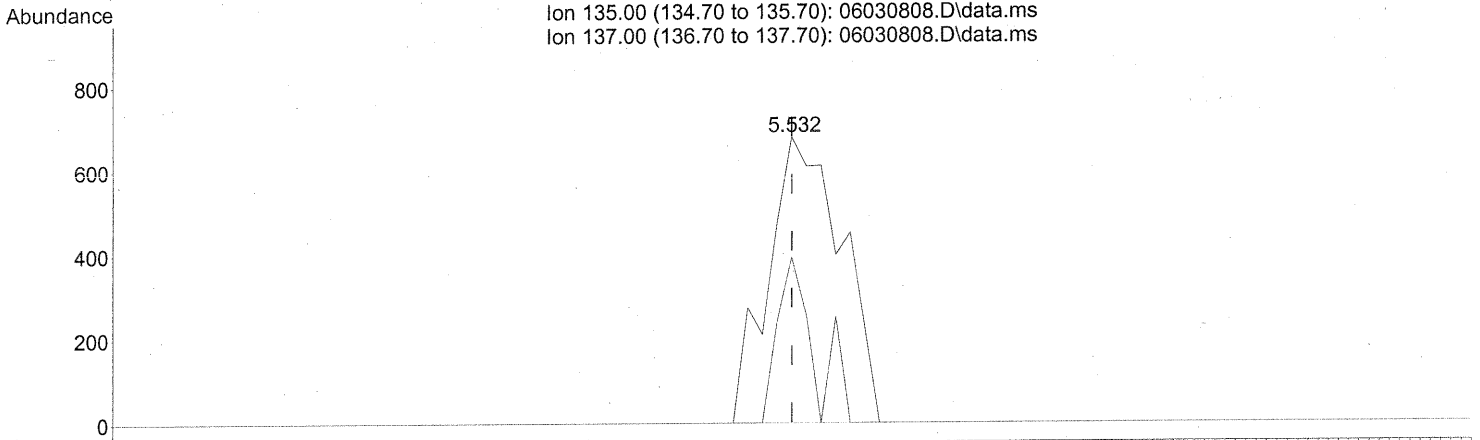
BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

*45* *6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)

5.532min (-0.000) 0.06ng

response 1342

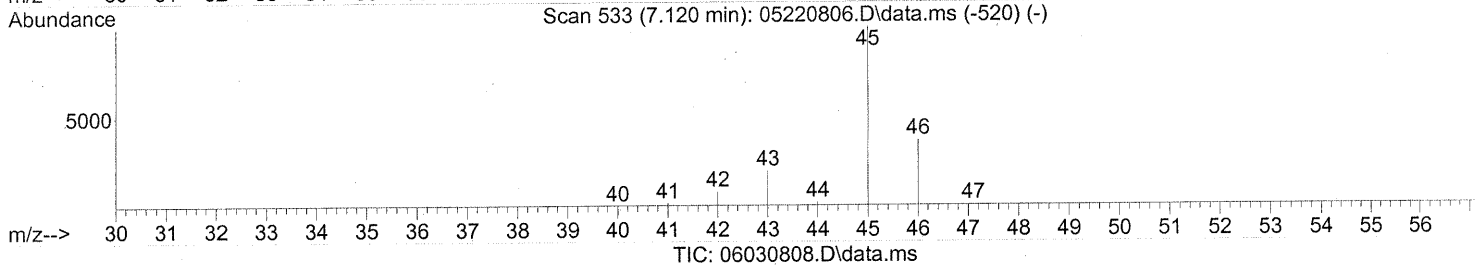
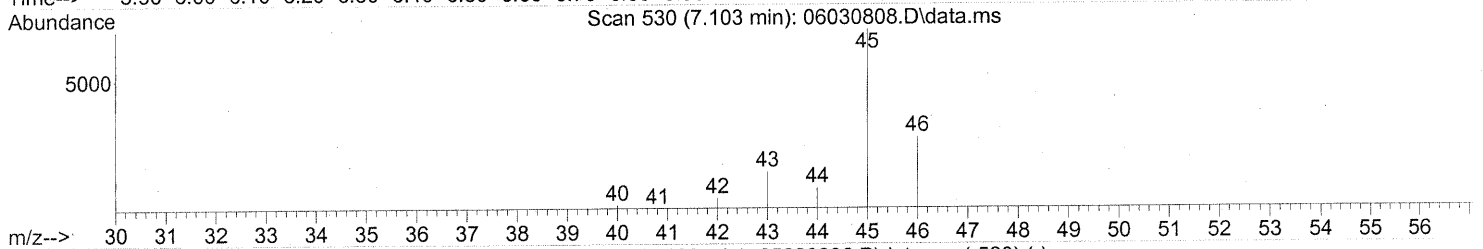
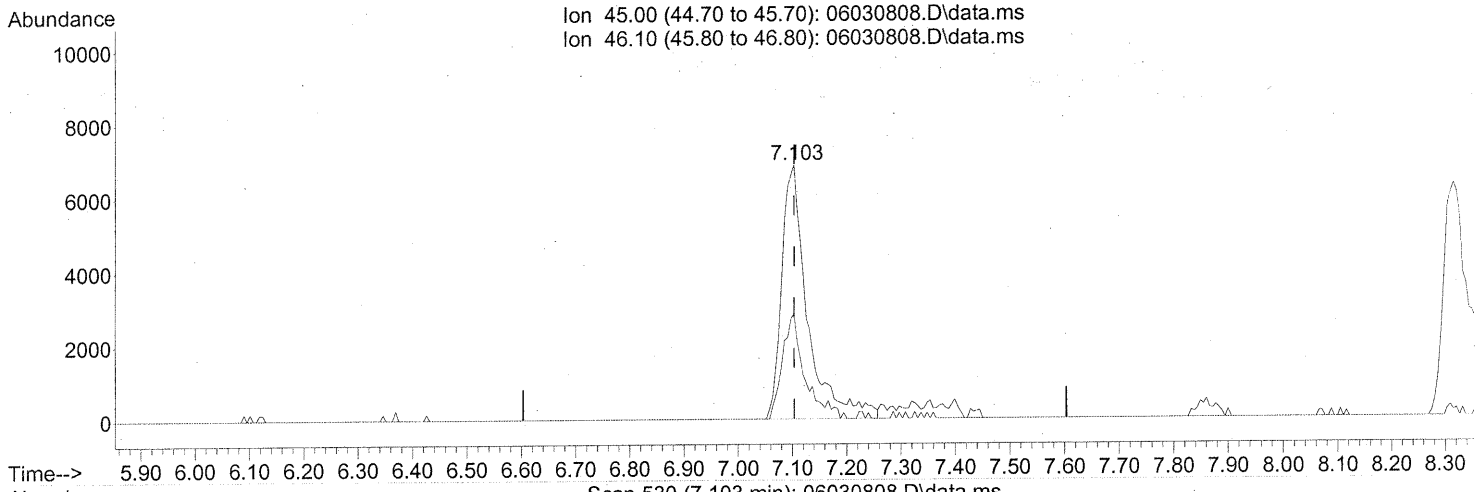
Ion	Exp%	Act%
135.00	100	100
137.00	31.50	28.91
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION  
*6/8/08*  
*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~-4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1  
*US* *6/10/08*

Quant Time: Jun 03 15:07:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 1.30ng

response 22673

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	35.92
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

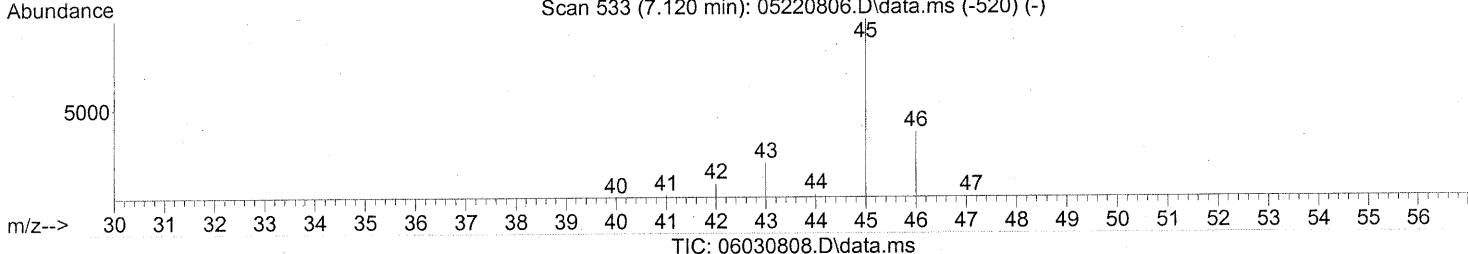
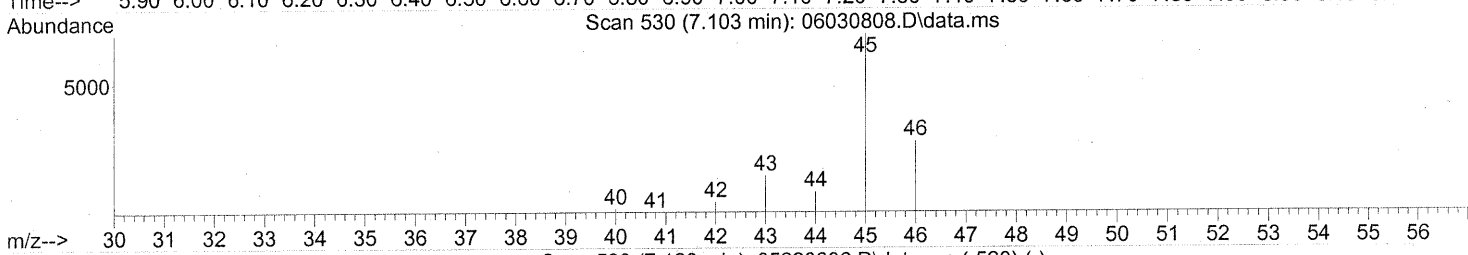
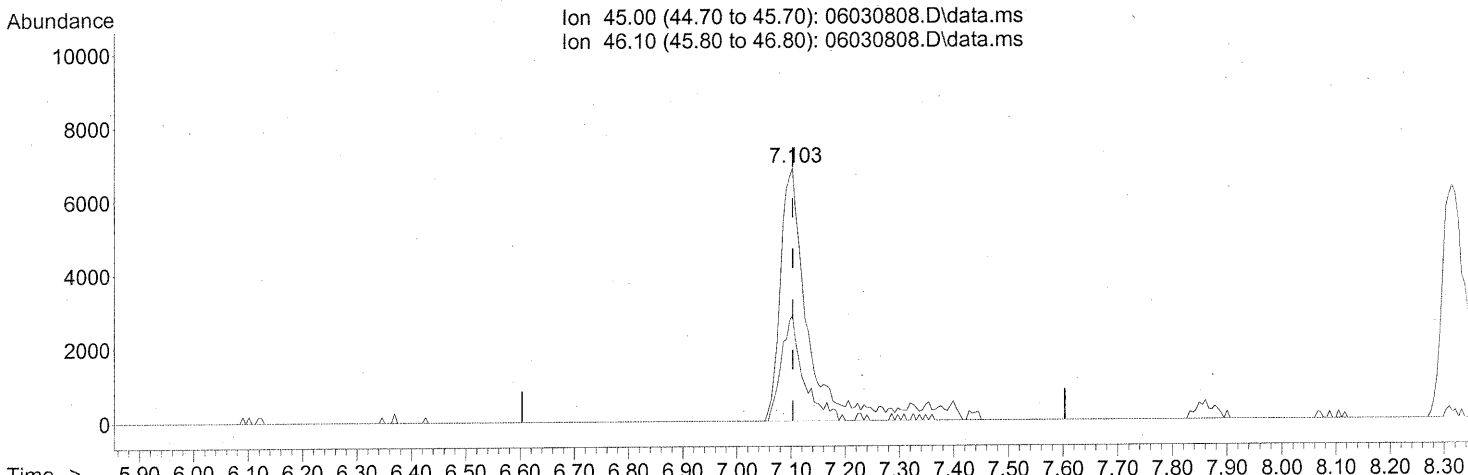


Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45 CA 6/10/08

Quant Time: Jun 03 15:07:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.000) 1.47ng m

response 25619

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	31.79
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING

6/08/08

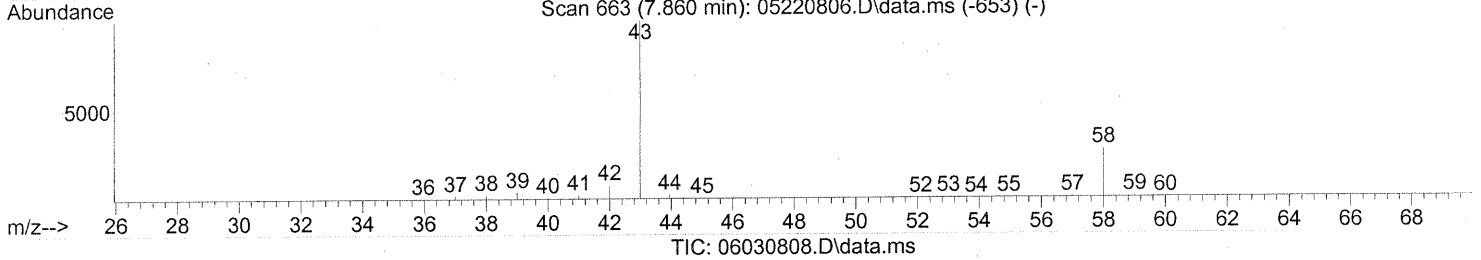
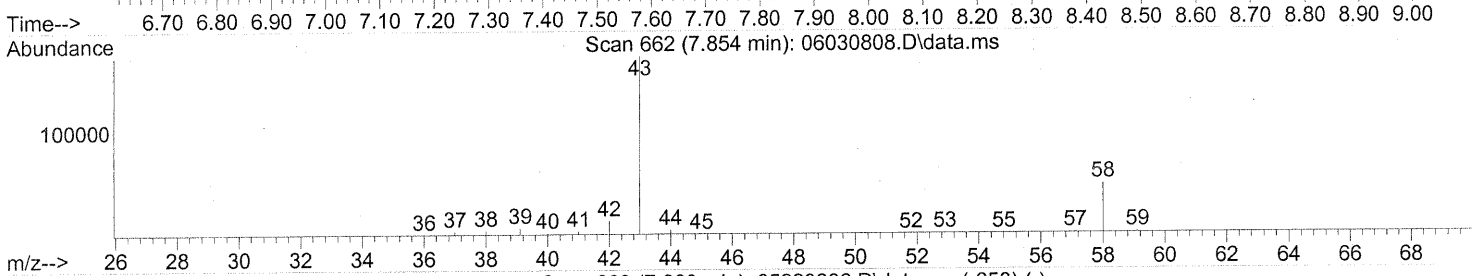
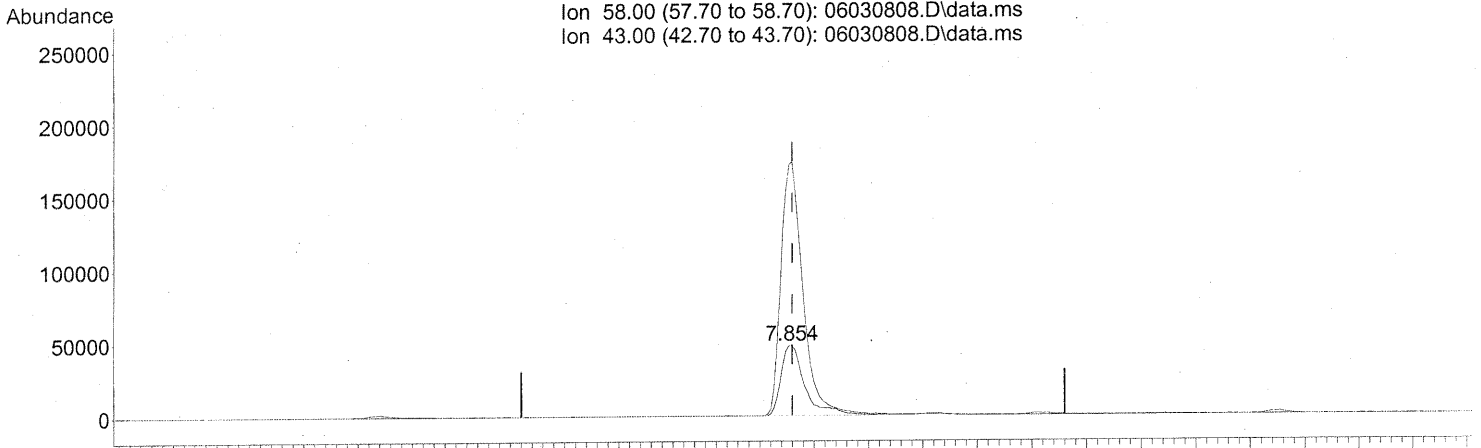
6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~-4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

*45*  
*6/10/08*

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.854min (-0.006) 8.24ng

response 146714

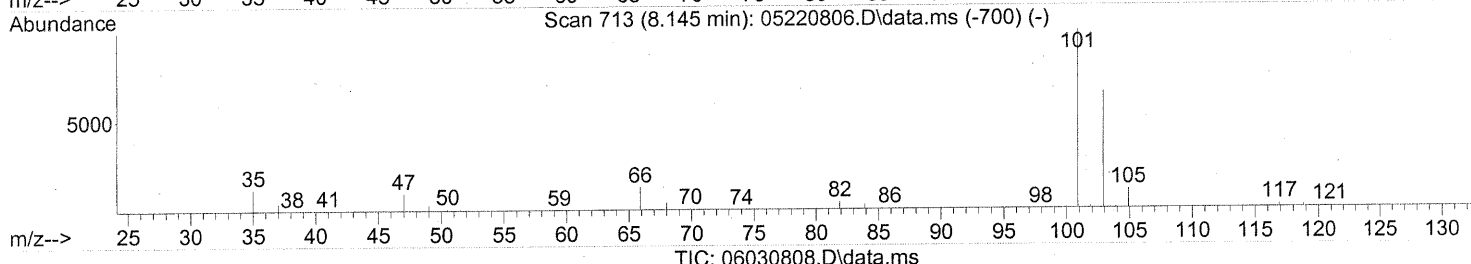
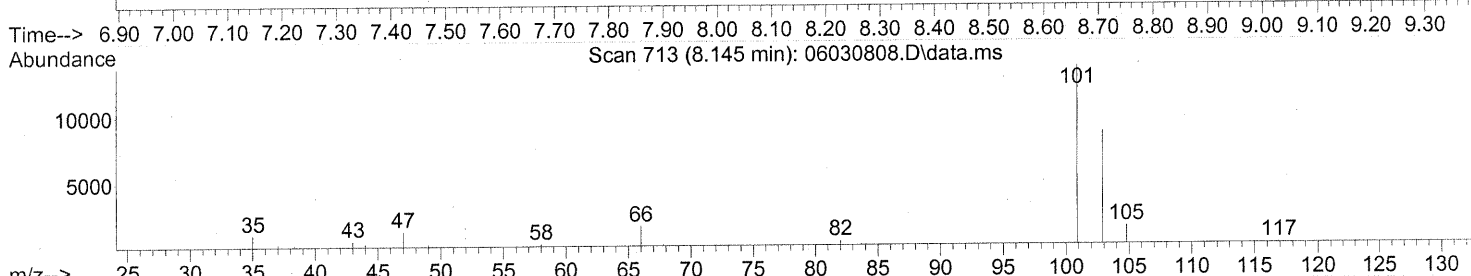
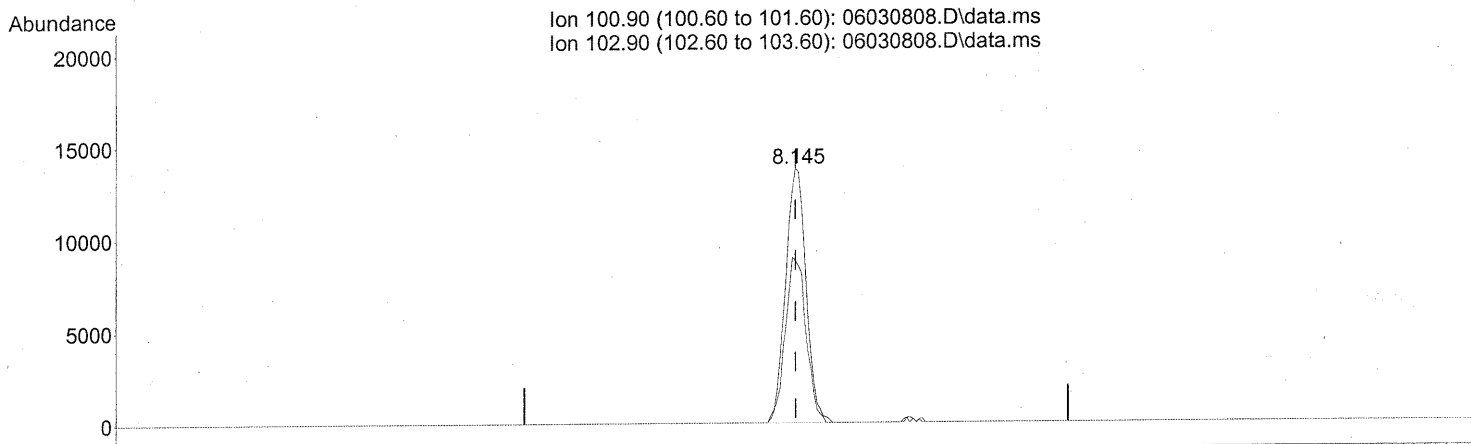
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	334.54#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45 CA 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.145min (-0.000) 0.88ng

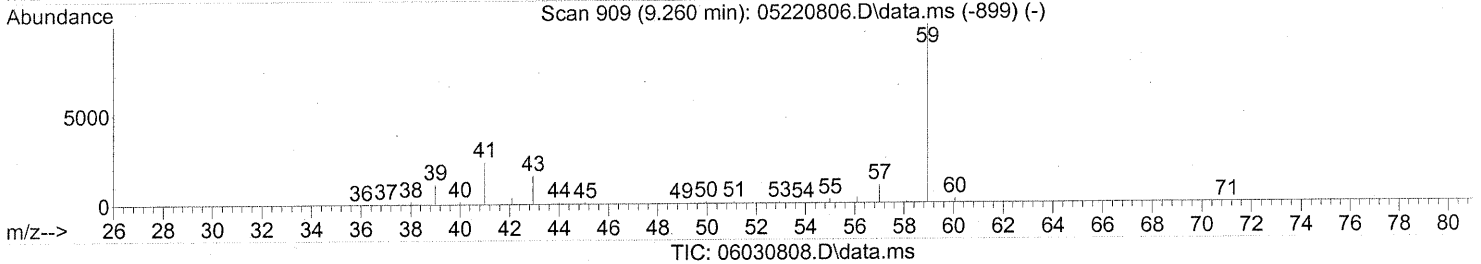
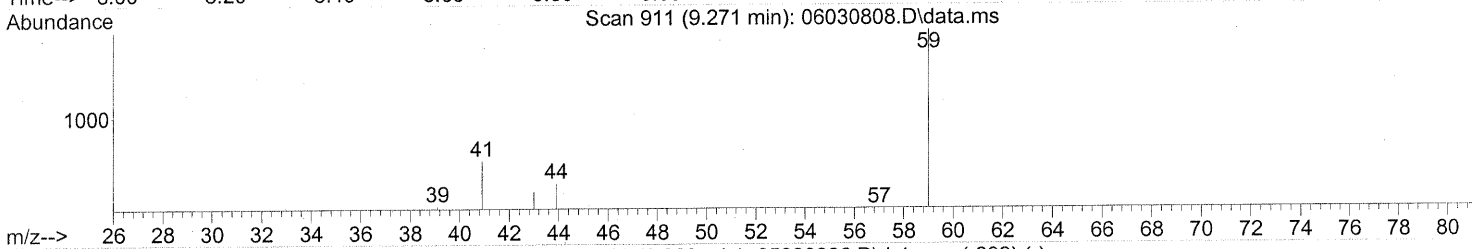
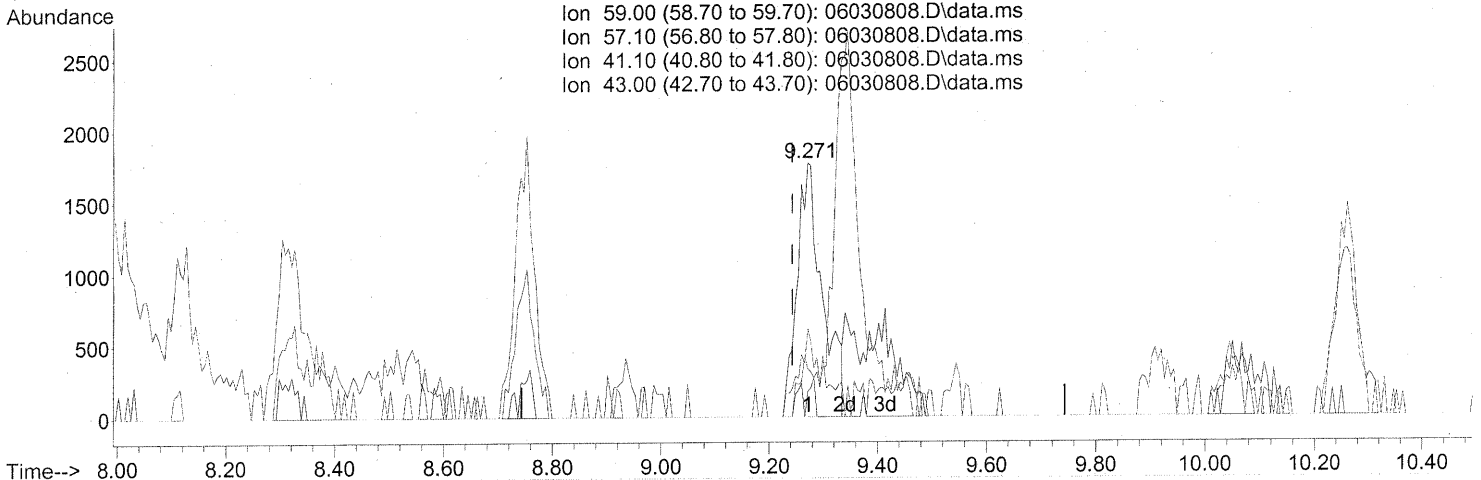
response 36146

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	66.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1  
45 6/10/08

Quant Time: Jun 03 15:07:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.028) 0.12ng  
response 5732

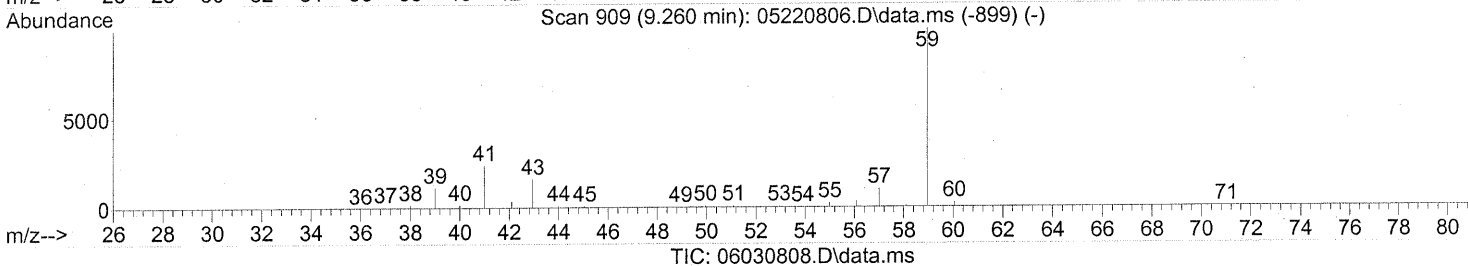
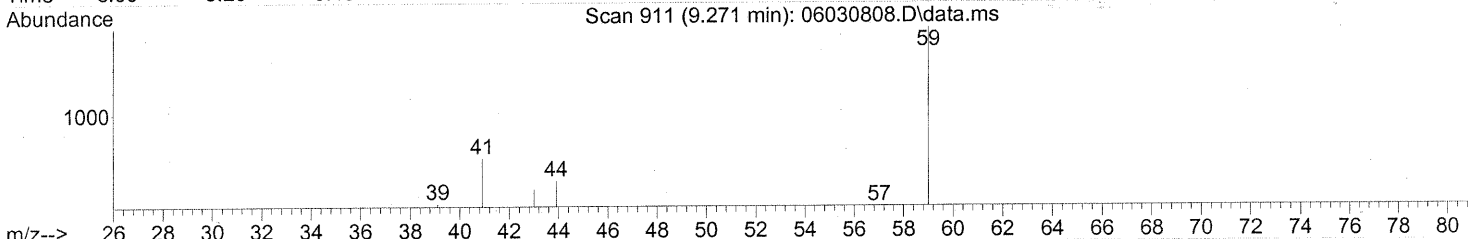
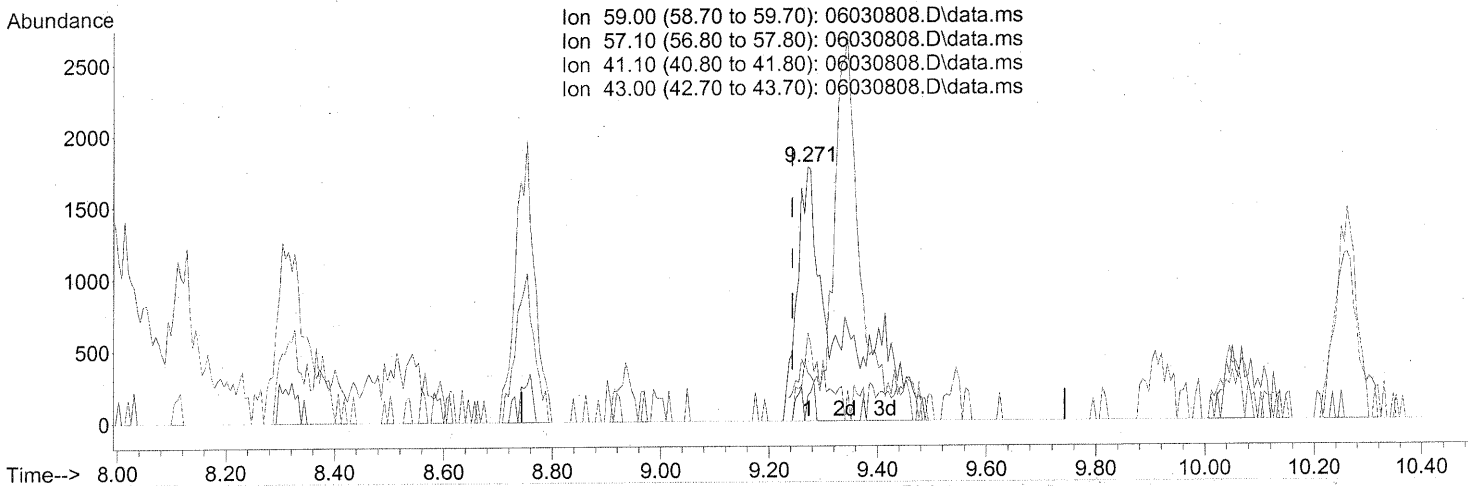
SPLIT PEAK/TAILING

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.44
41.10	20.10	33.74
43.00	12.30	15.20

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (-4.5, -3.5) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

45  
6/11/08  
Quant Time: Jun 03 15:07:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.028) 0.20ng m  
response 9557

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.06
41.10	20.10	20.24
43.00	12.30	9.11

INT. THE WHOLE PEAK

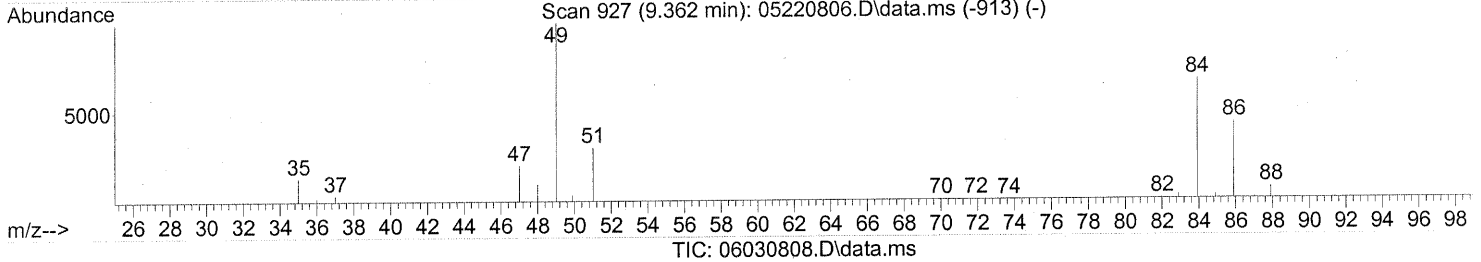
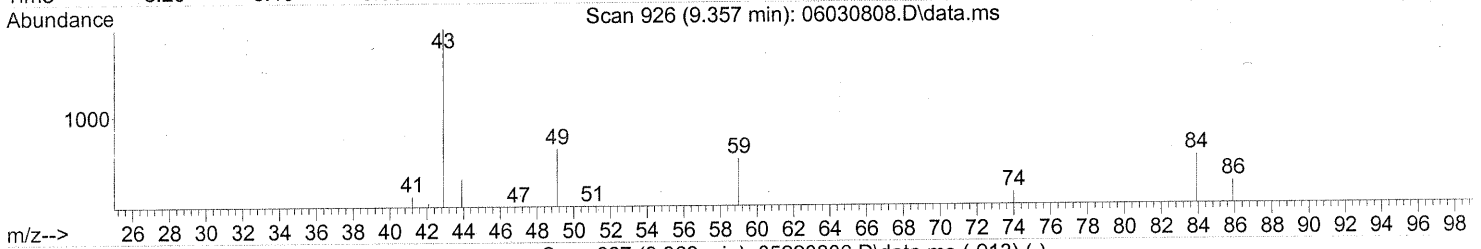
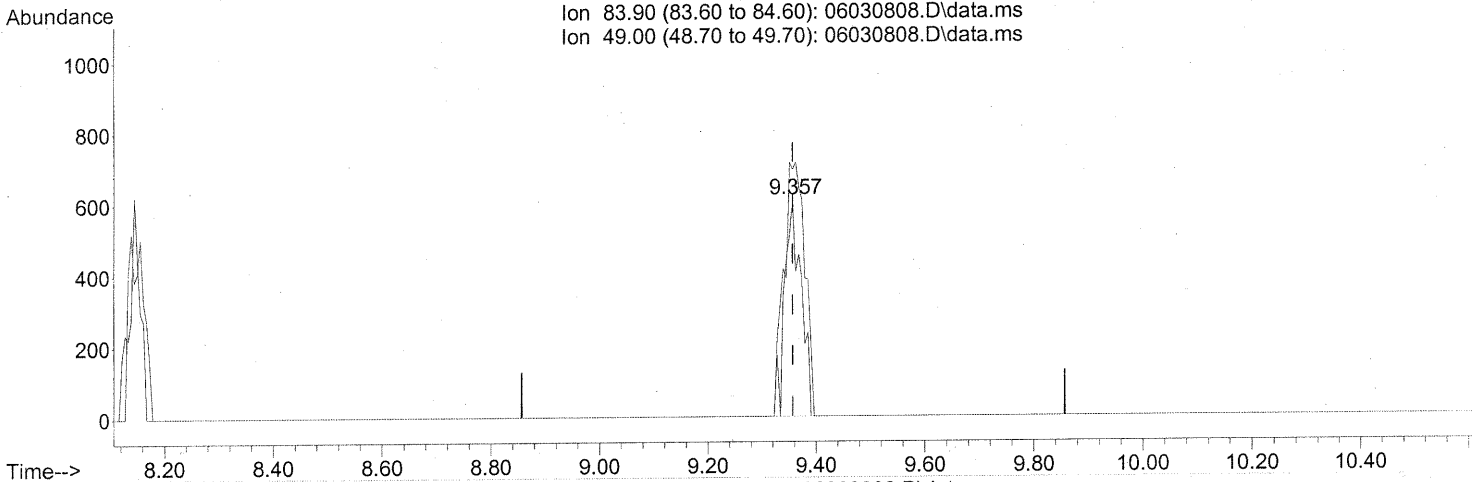
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1  
*45* *Ch 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.06ng

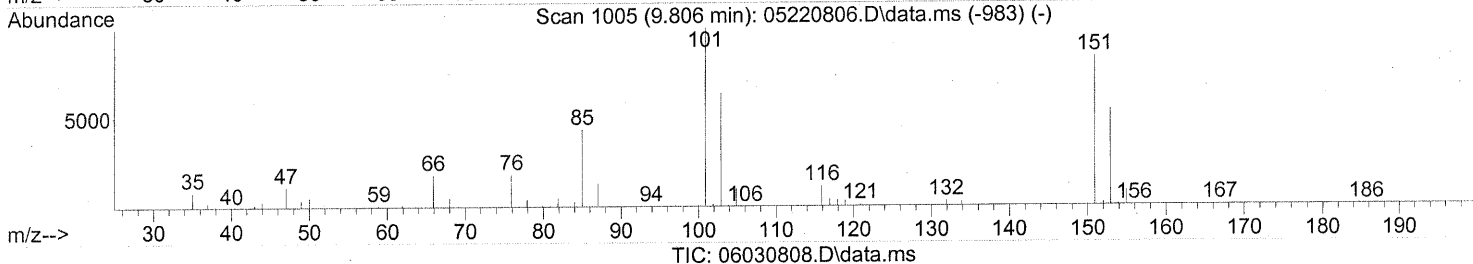
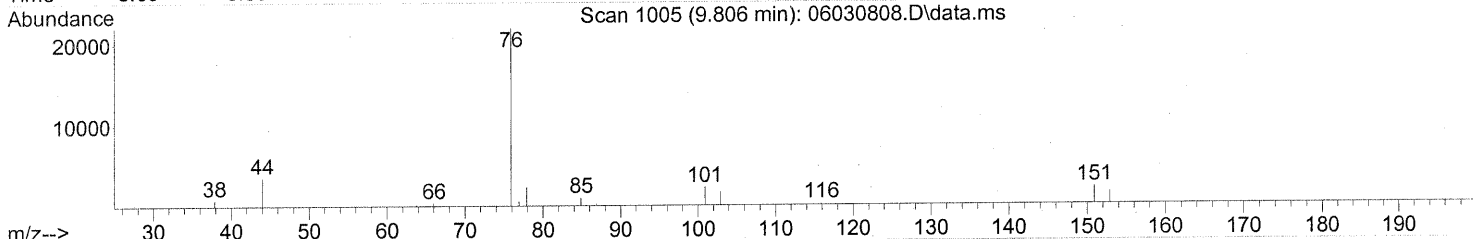
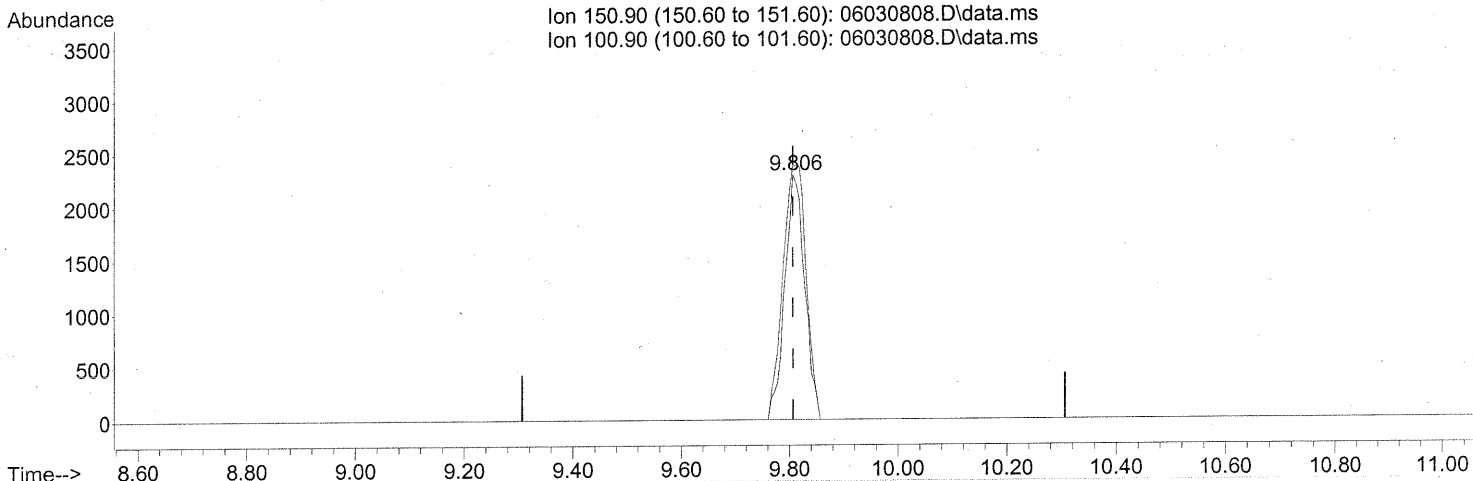
response 1284

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	151.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~-4.5, -3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.000) 0.31ng

response 5828

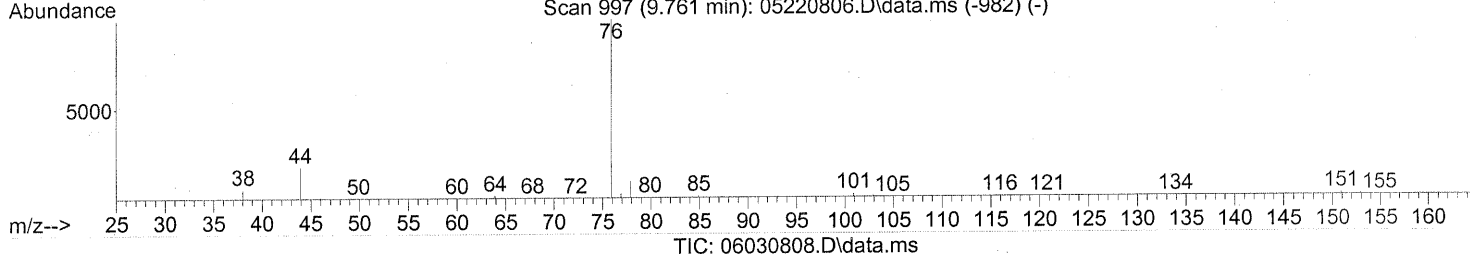
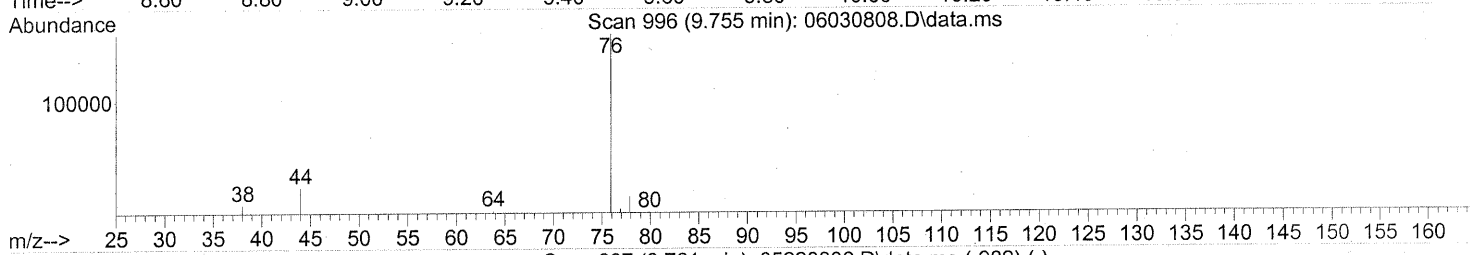
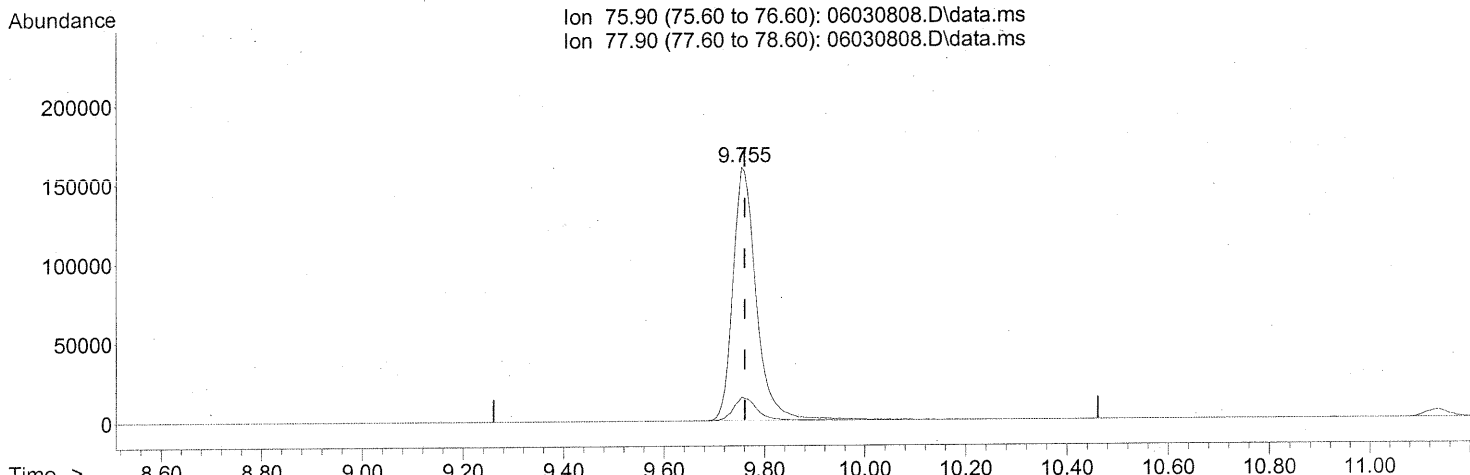
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	121.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

45  
6/10/08

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 6.78ng

response 511721

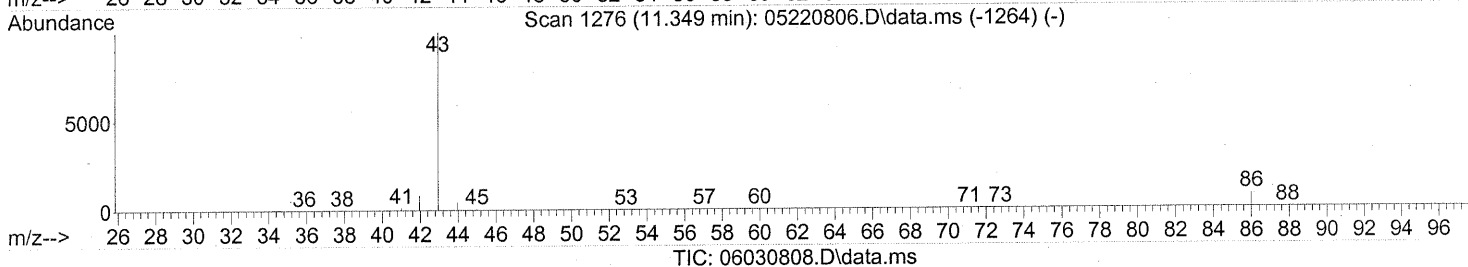
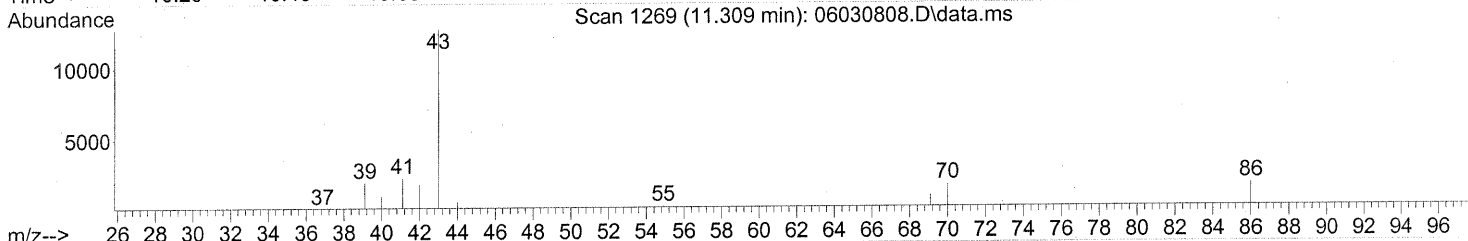
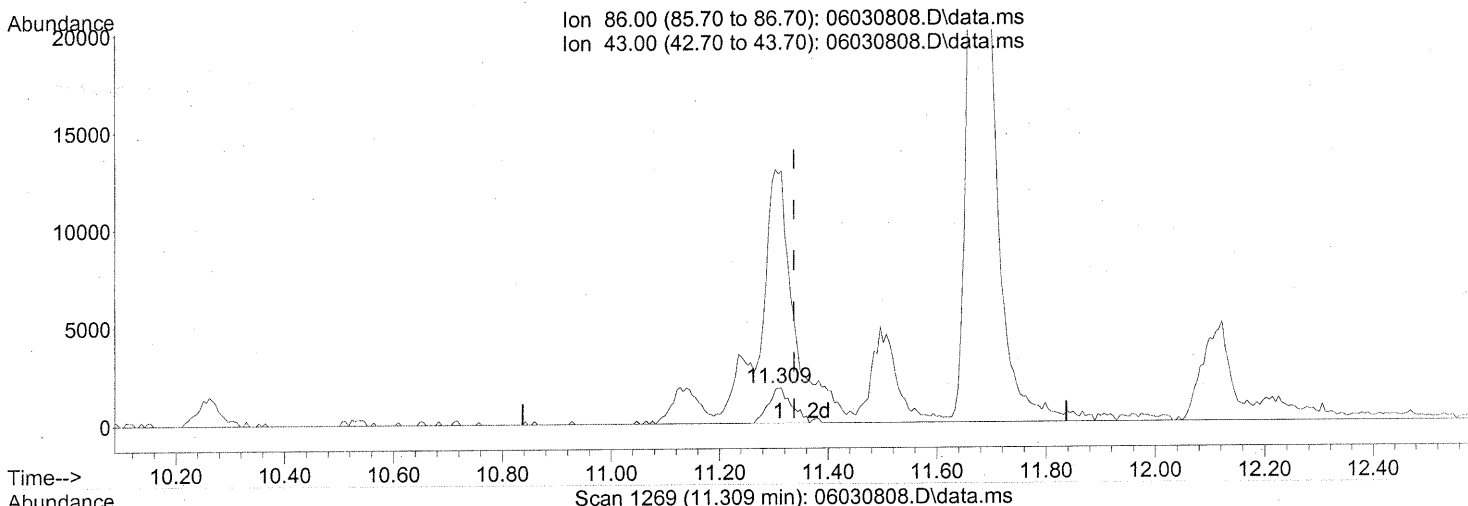
Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.11
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

45 6/10/08  
Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(26) Vinyl Acetate (T)  
11.309min (-0.028) 1.60ng

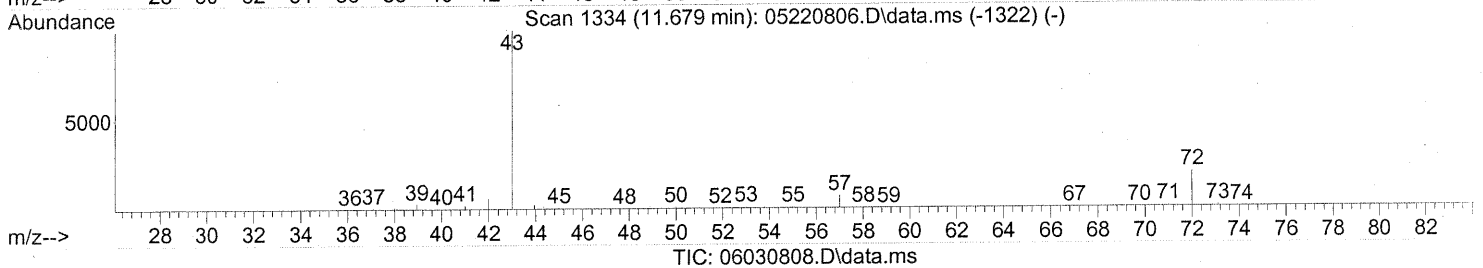
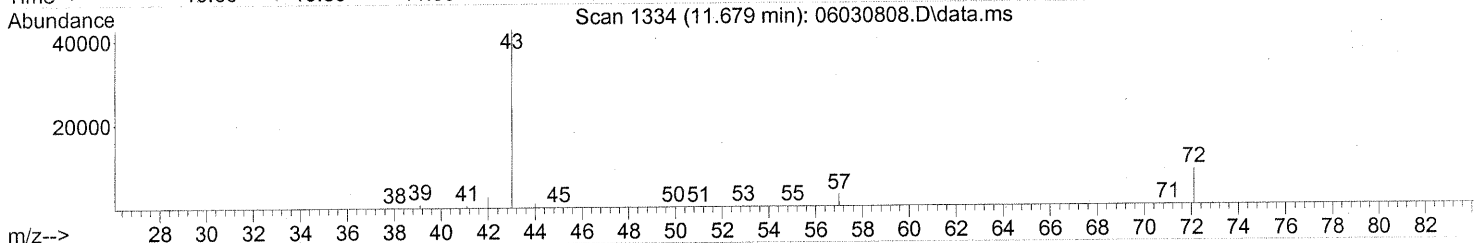
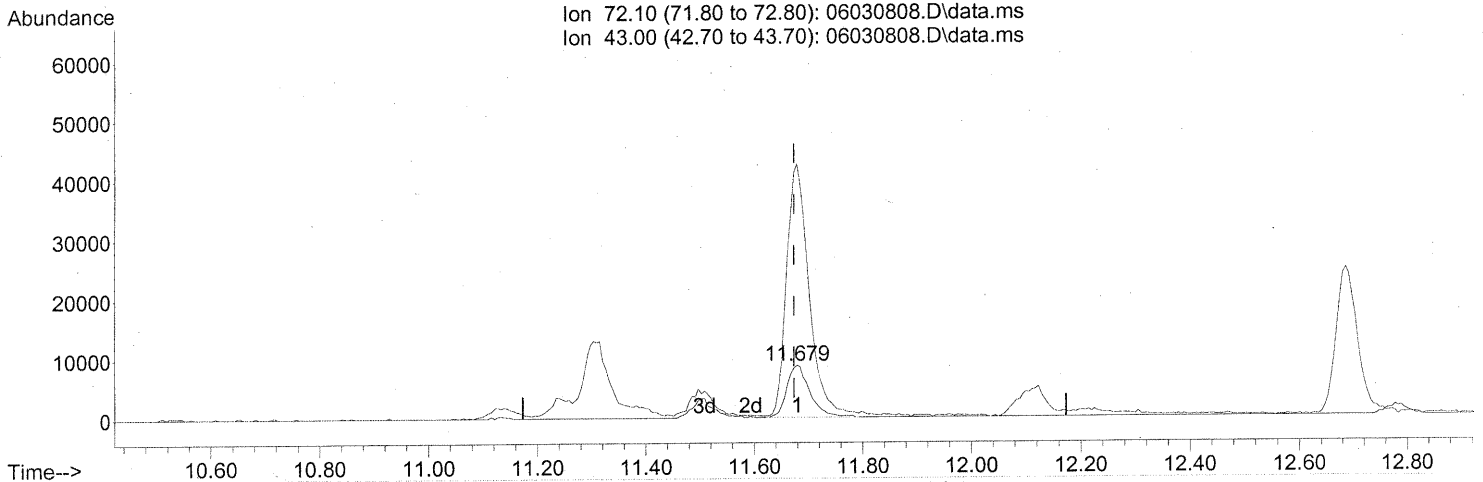
response 5275

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	875.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1  
*45* *CA 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



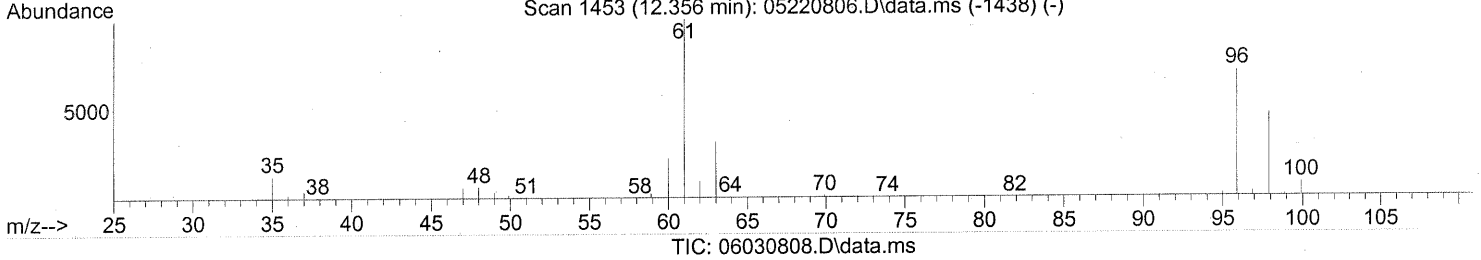
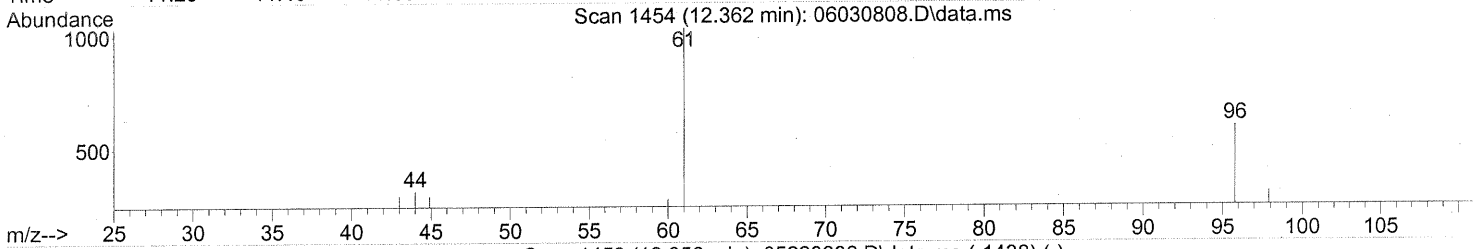
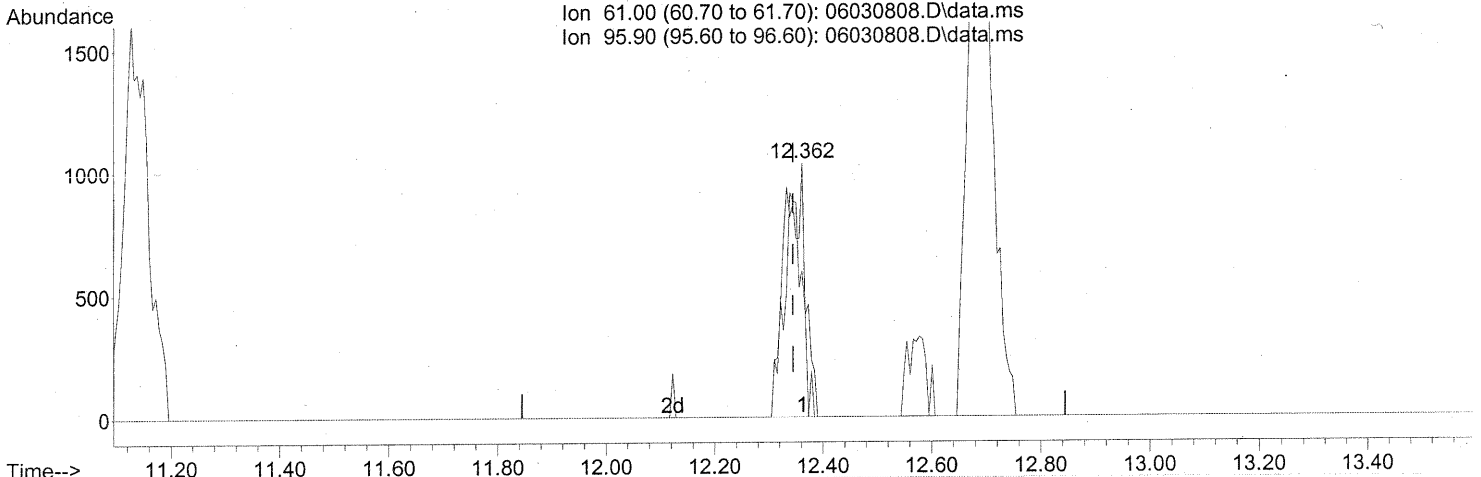
(27) 2-Butanone (T)  
 11.679min (+0.006) 1.97ng  
 response 25607

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	474.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1  
*47 CA 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(28) cis-1,2-Dichloroethene (T)

12.362min (+0.017) 0.10ng

response 2742

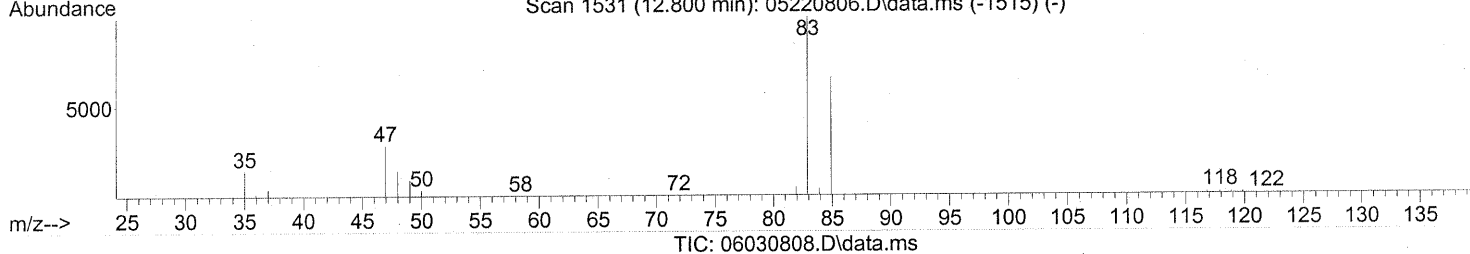
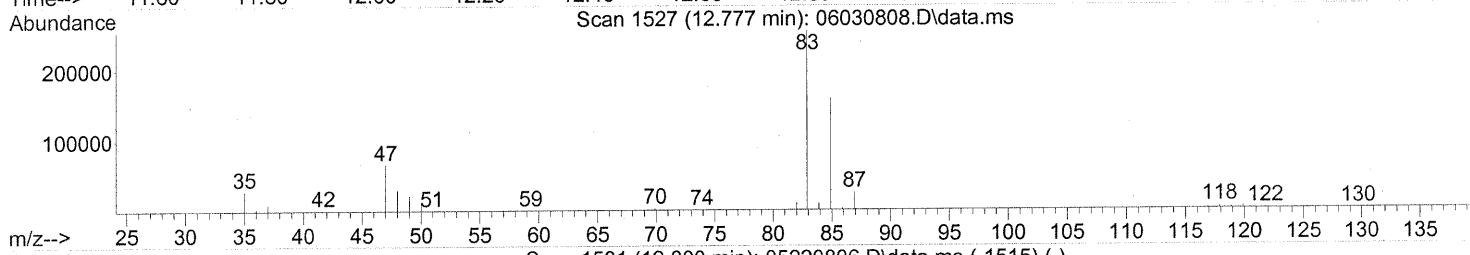
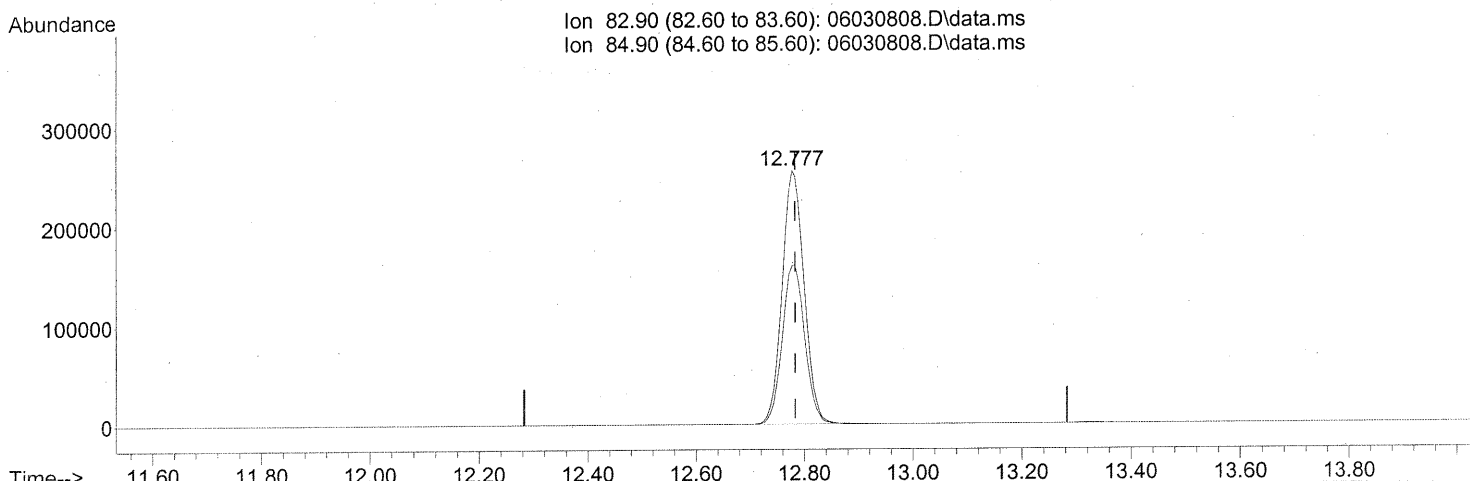
Ion	Exp%	Act%
61.00	100	100
95.90	59.60	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

45 6/10/08

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 23.89ng

response 720365

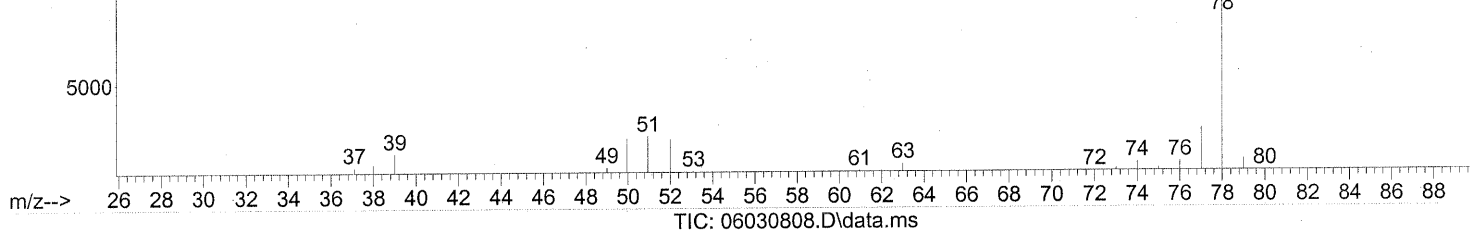
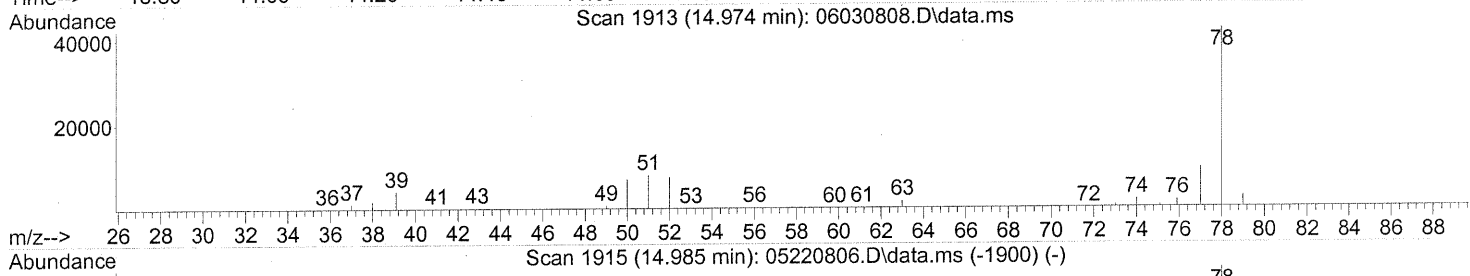
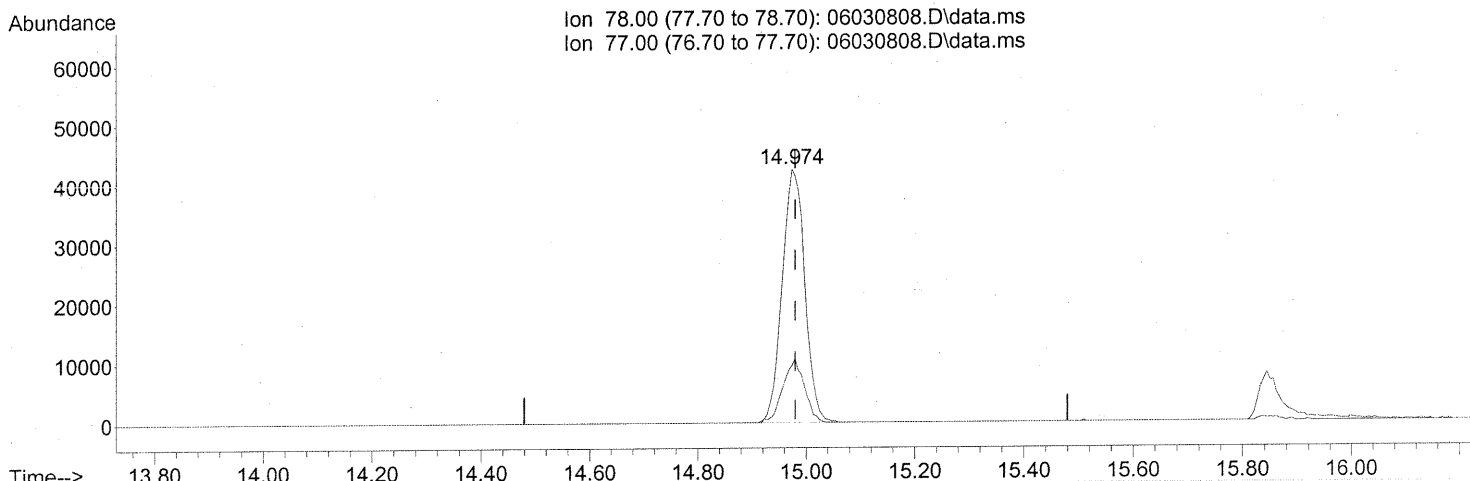
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

45 6/10/08

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(41) Benzene (T)

14.974min (-0.006) 1.61ng

response 122539

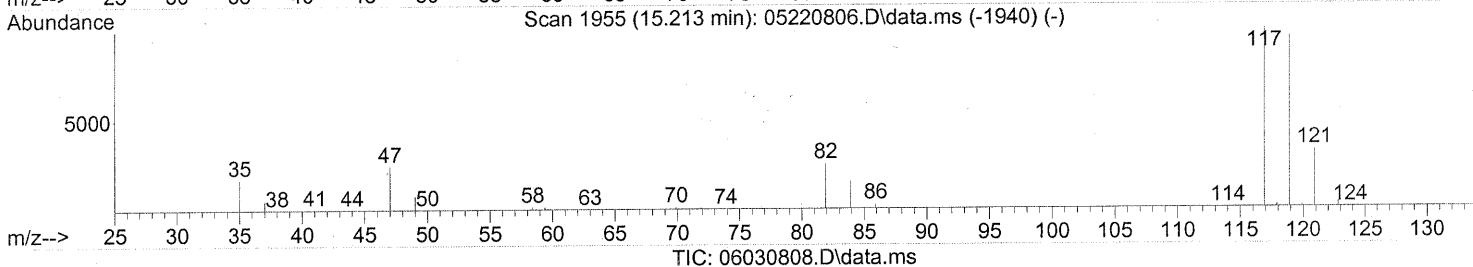
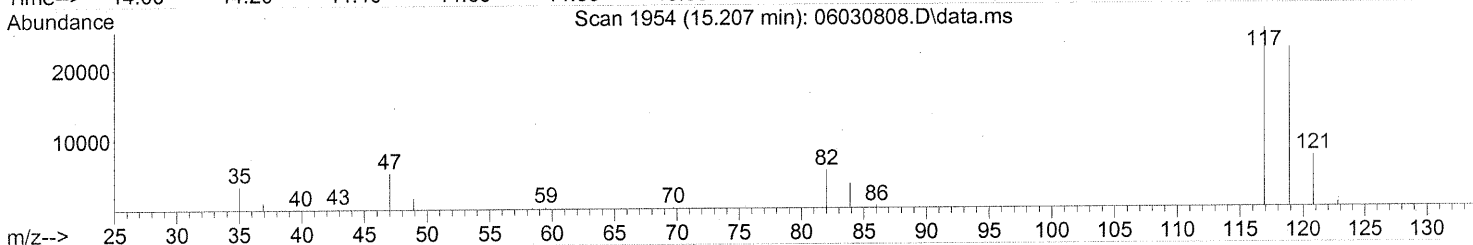
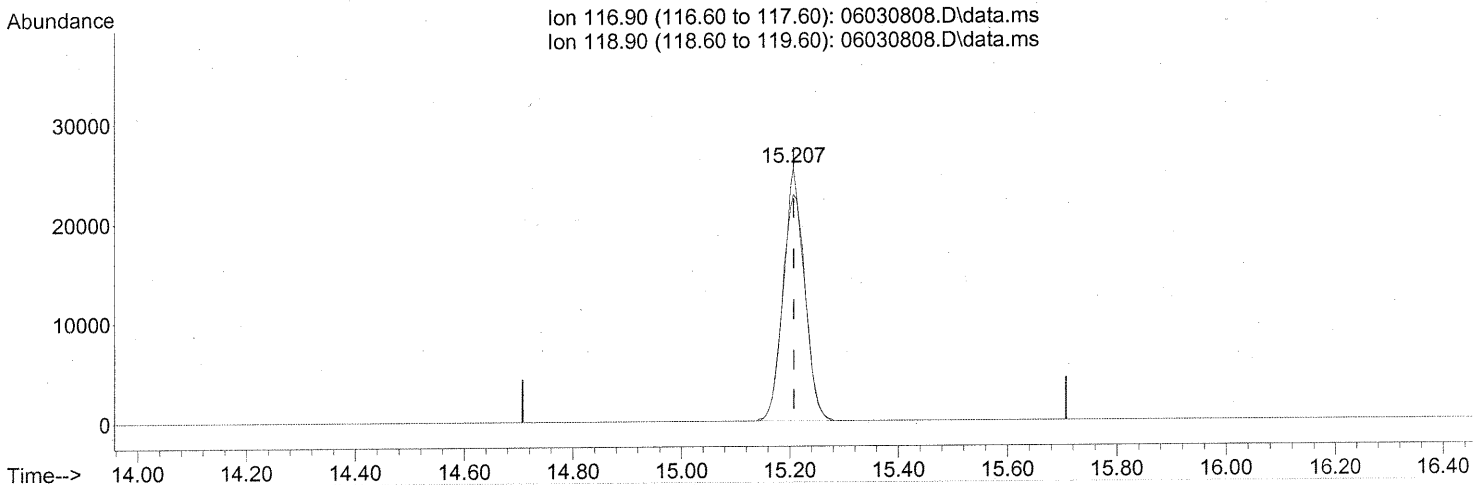
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45  
 on 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 2.36ng

response 68923

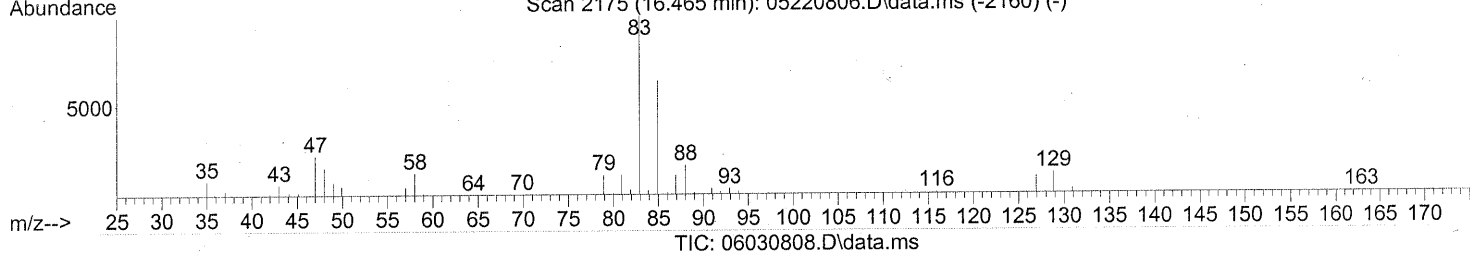
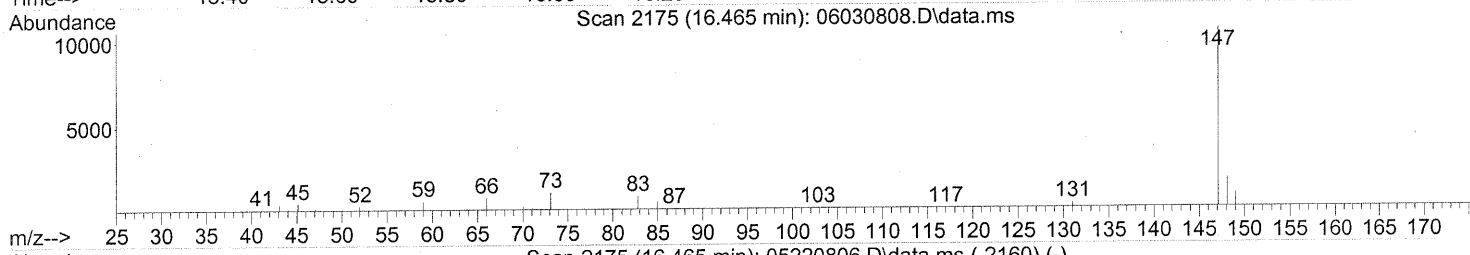
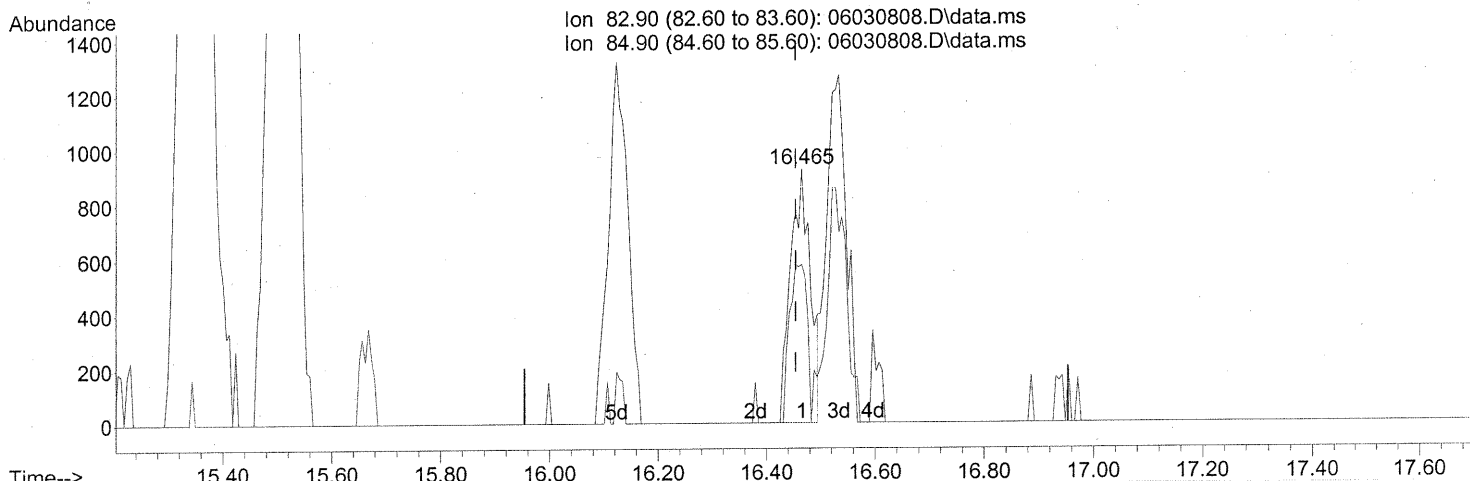
Ion	Exp%	Act%
116.90	100	100
118.90	96.60	94.79
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45  
 Cur 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.09ng

response 2338

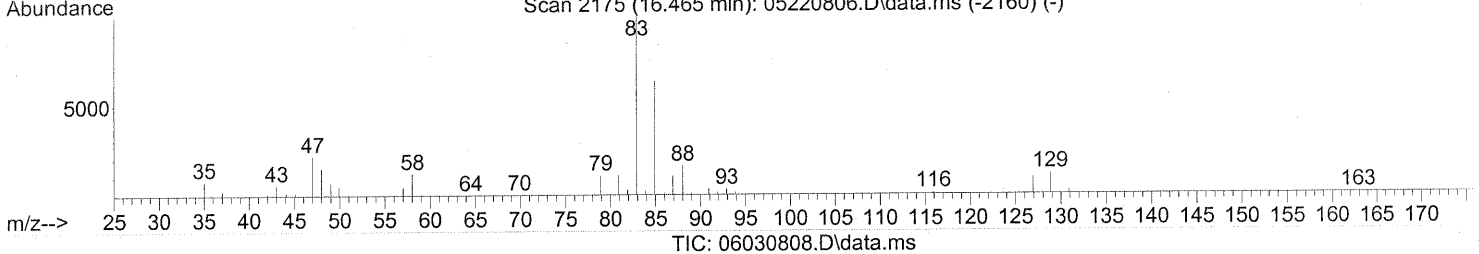
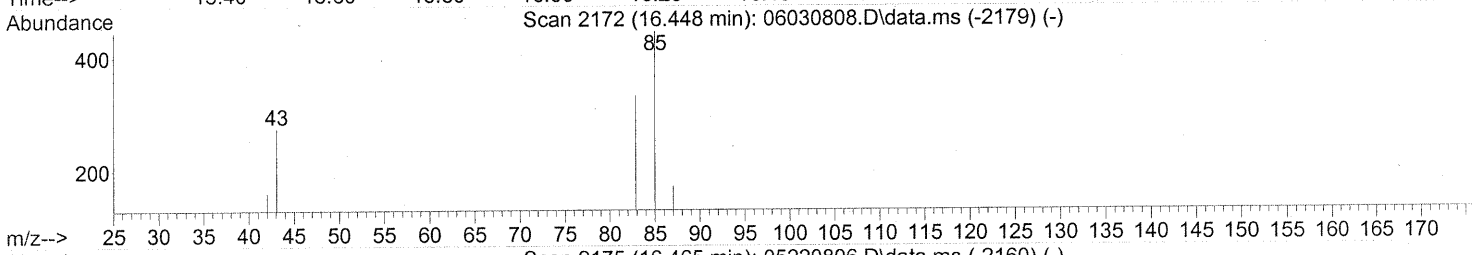
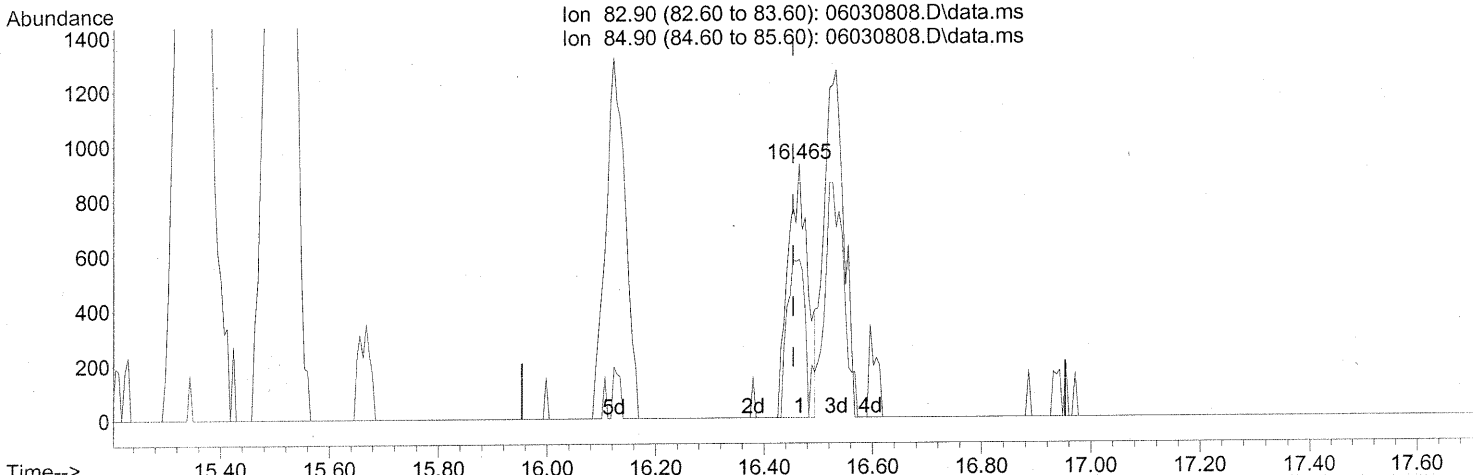
Ion	Exp%	Act%
82.90	100	100
84.90	63.70	54.58
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.09ng

response 2338

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	54.58
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

6/6/08

6/9/08

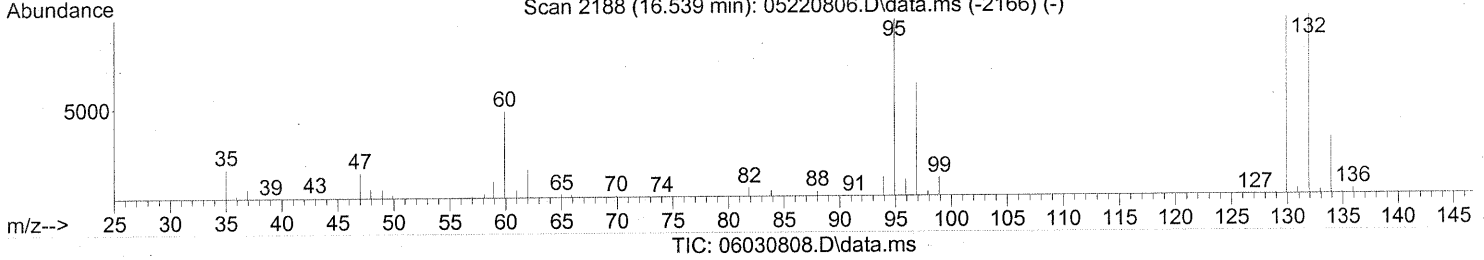
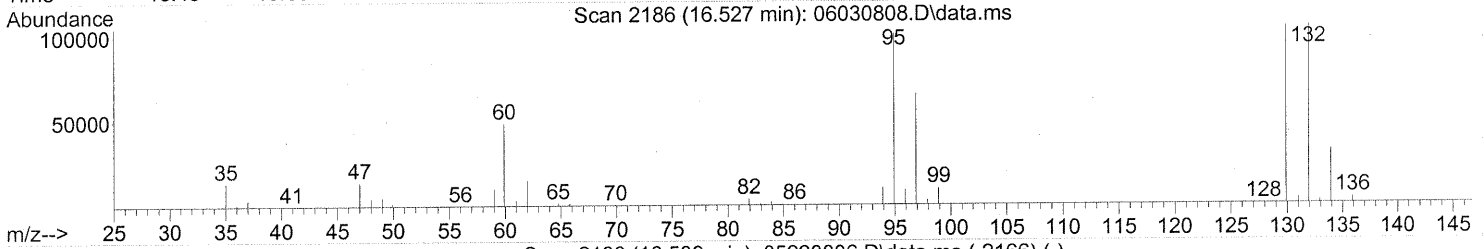
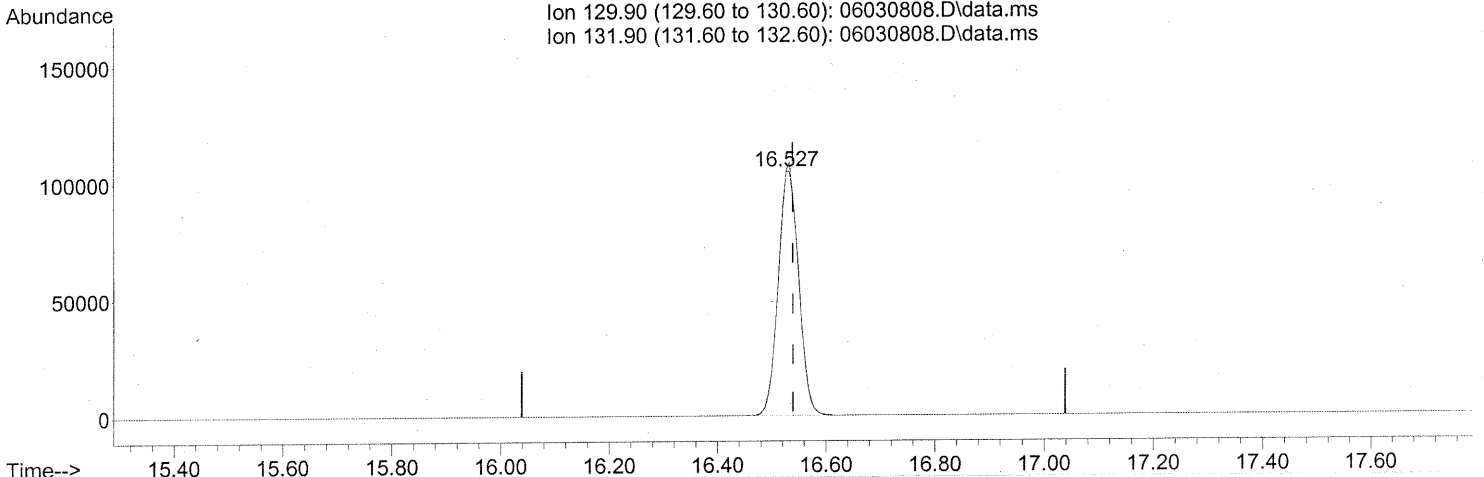


Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

*45 Ca 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



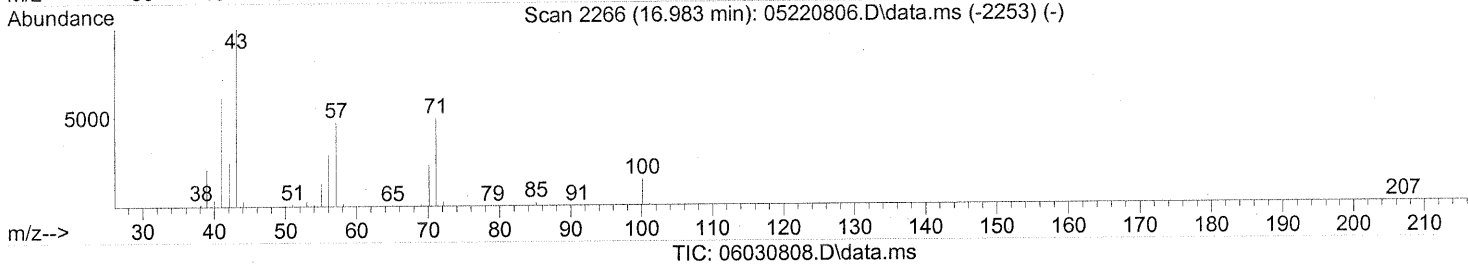
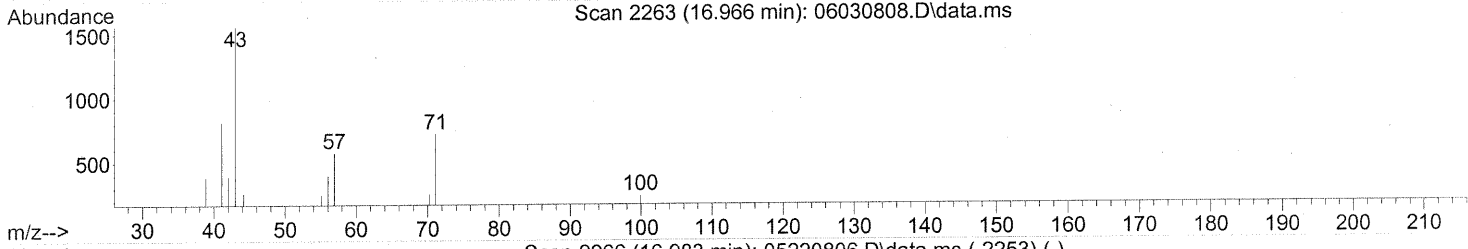
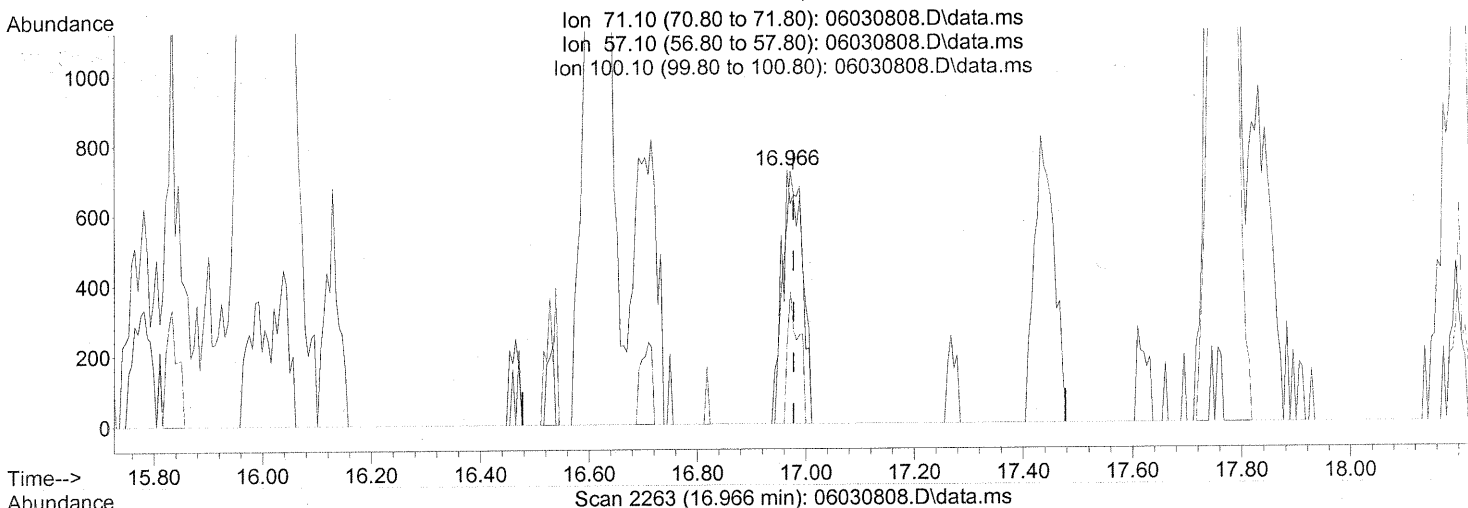
(47) Trichloroethene (T)  
 16.527min (-0.011) 11.79ng  
 response 274430

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	100.77
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(51) n-Heptane (T)

16.966min (-0.011) 0.09ng

response 1858

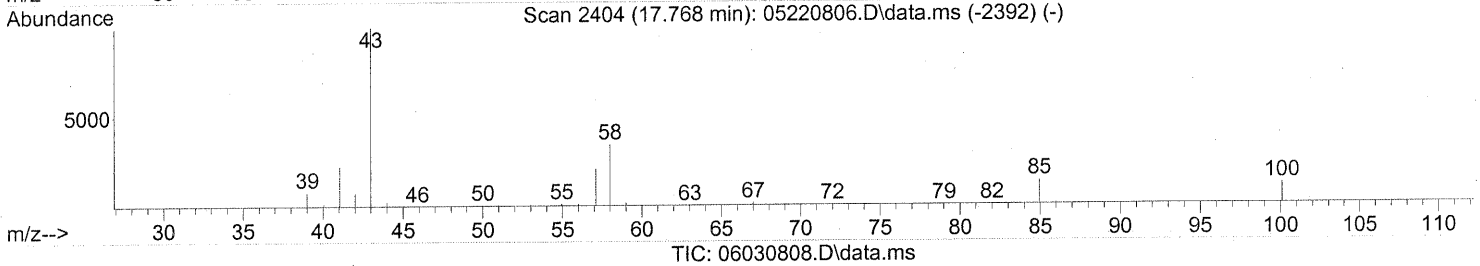
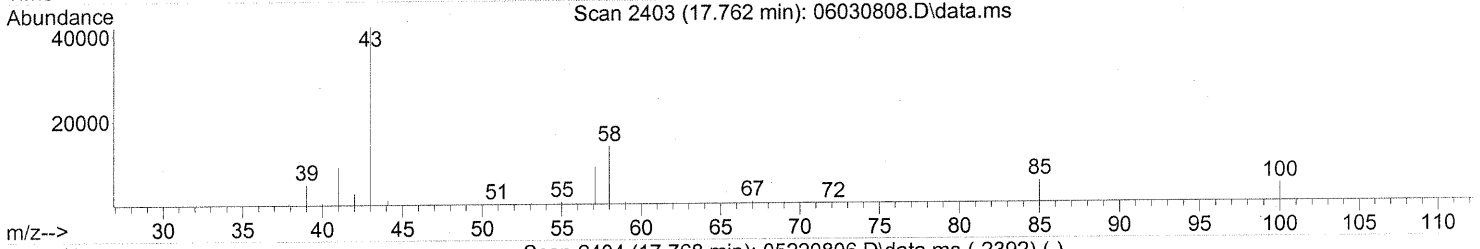
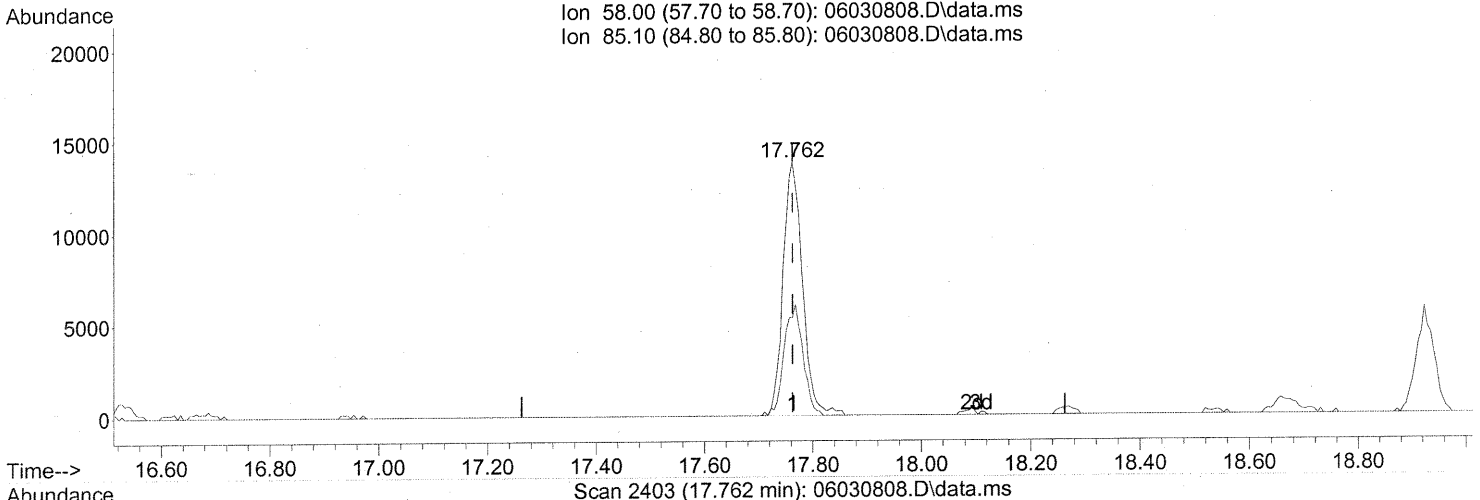
Ion	Exp%	Act%
71.10	100	100
57.10	124.90	96.50#
100.10	30.10	29.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

*45*  
*Co 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.762min (-0.000) 1.71ng

response 34366

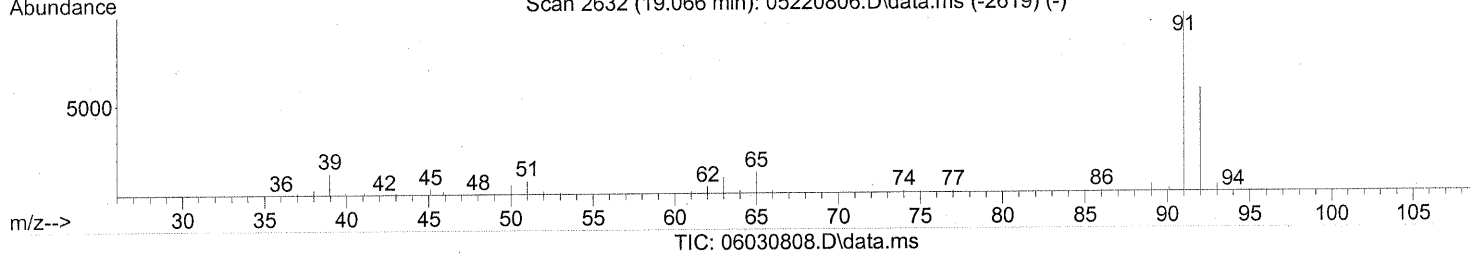
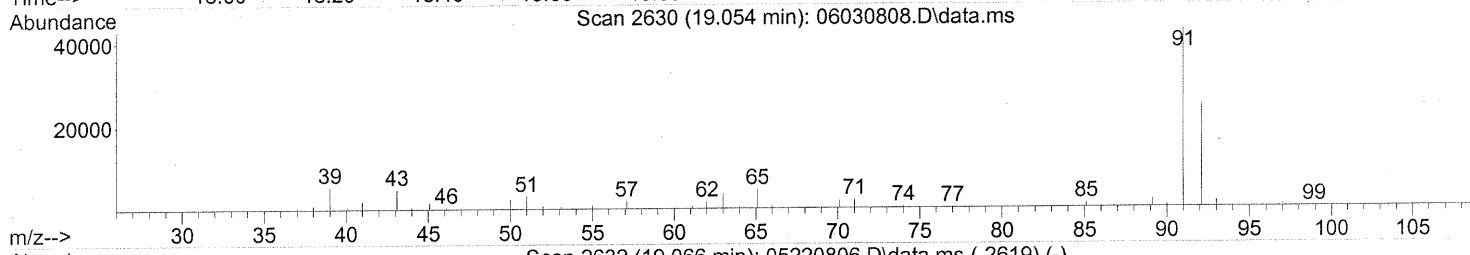
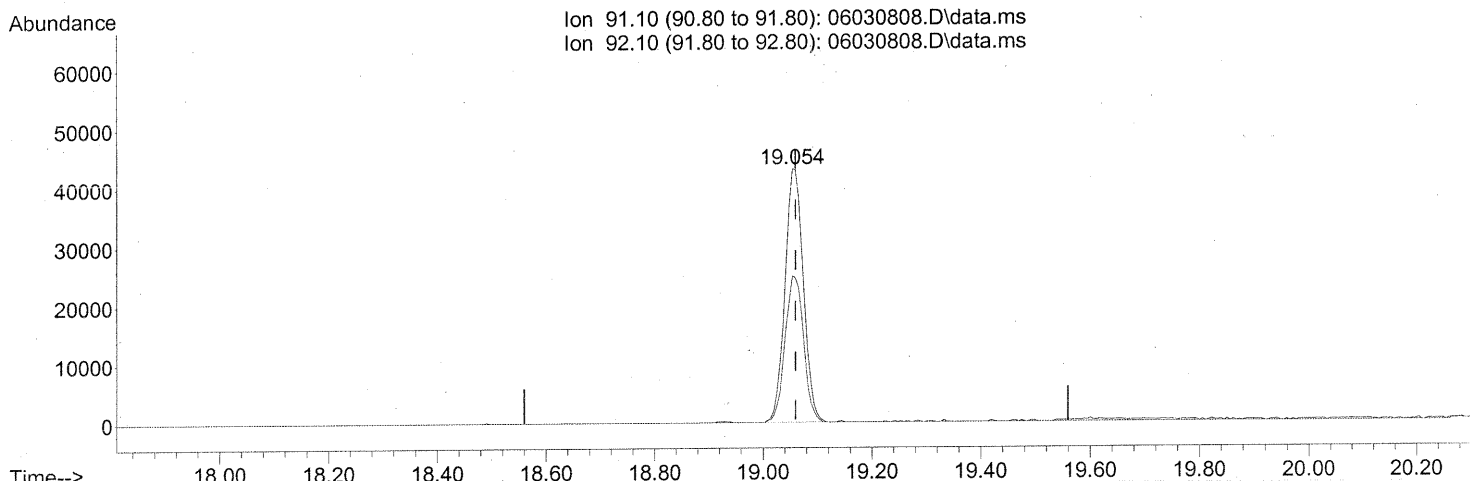
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	42.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2, 4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

45 CA 6/10/08

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.054min (-0.006) 1.19ng

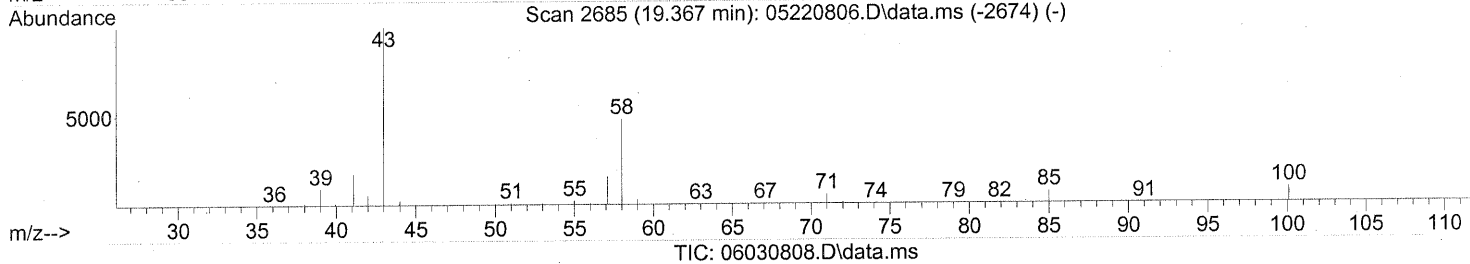
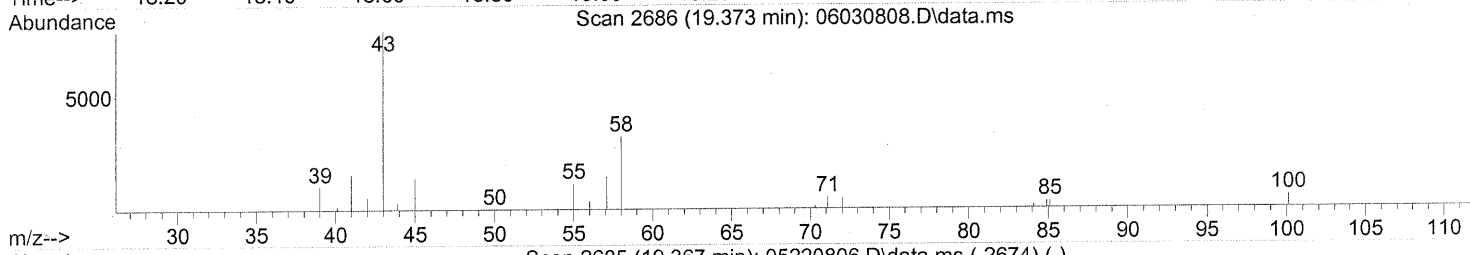
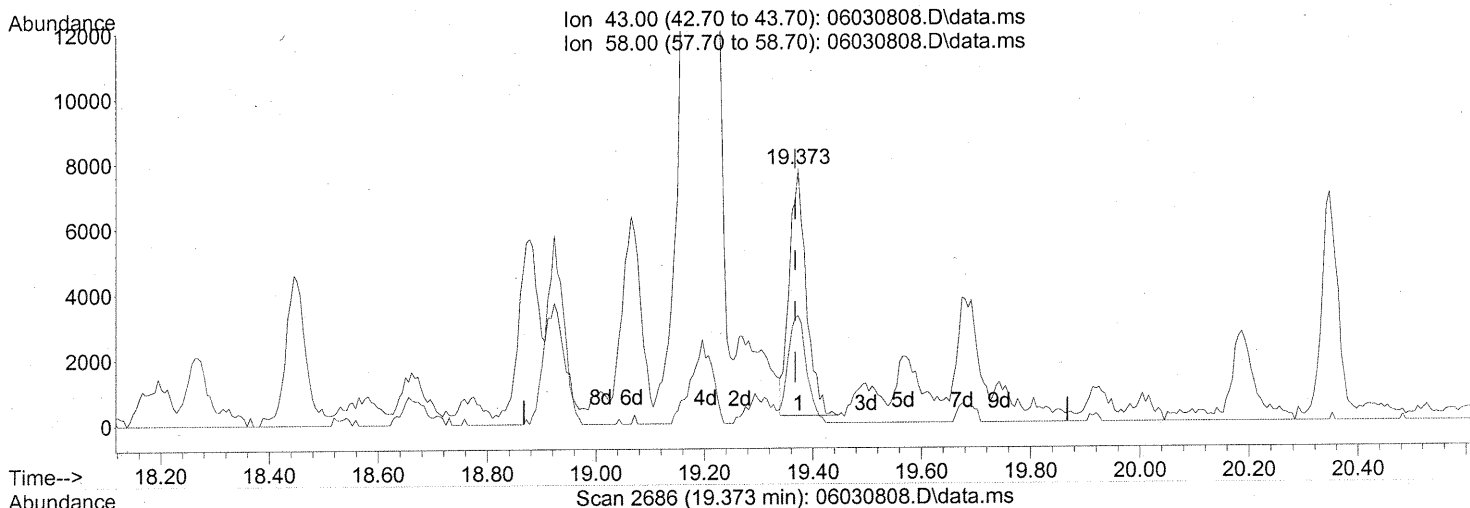
response 101124

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~-4.5, -3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.28ng  
 response 16474

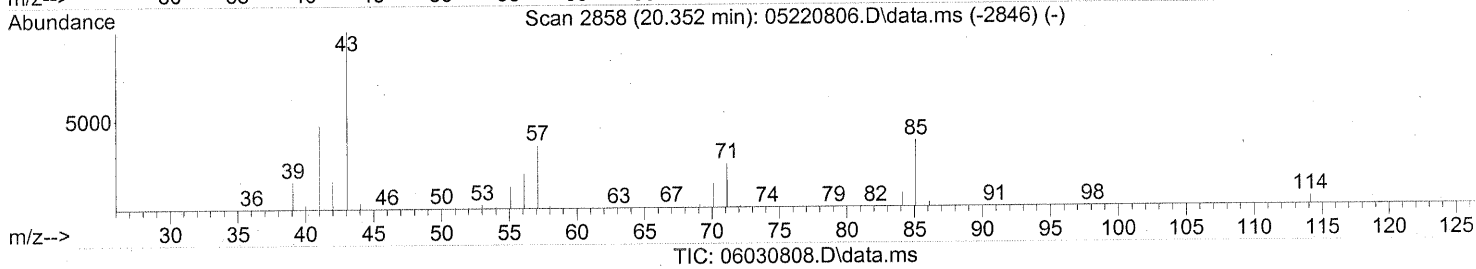
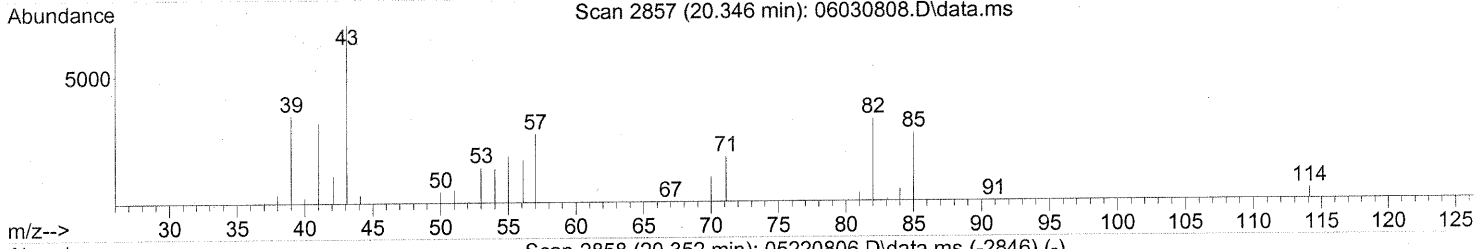
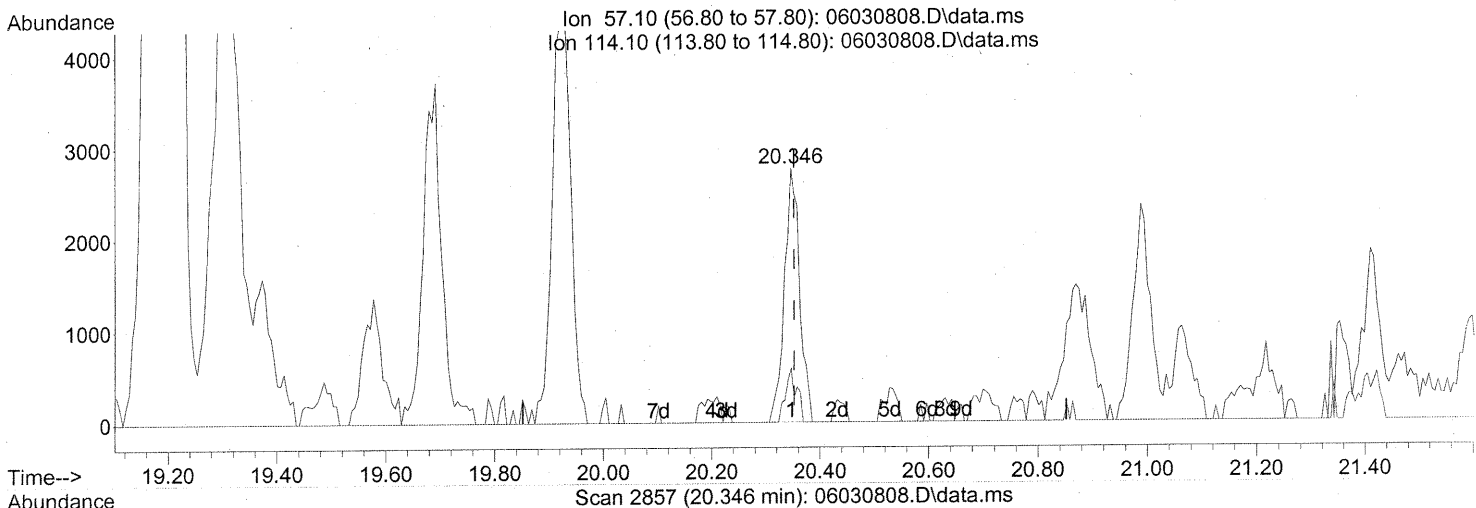
Ion	Exp%	Act%
43.00	100	100
58.00	61.70	48.33
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

*45 CA 6/10/08*

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.346min (-0.006) 0.29ng

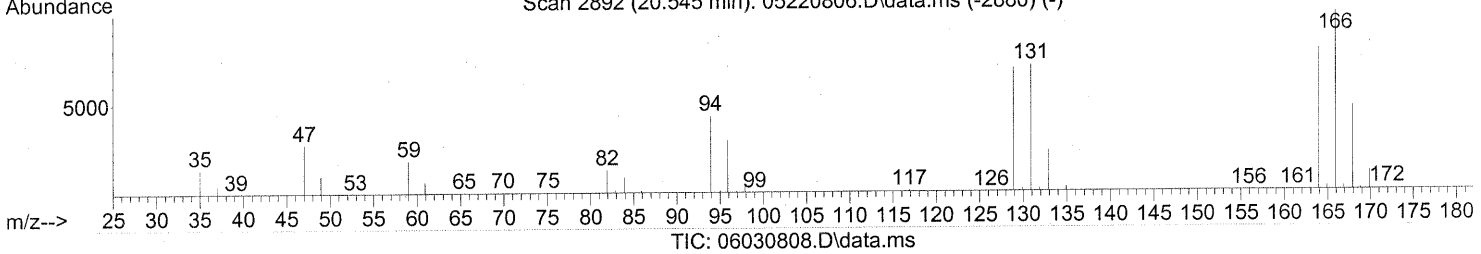
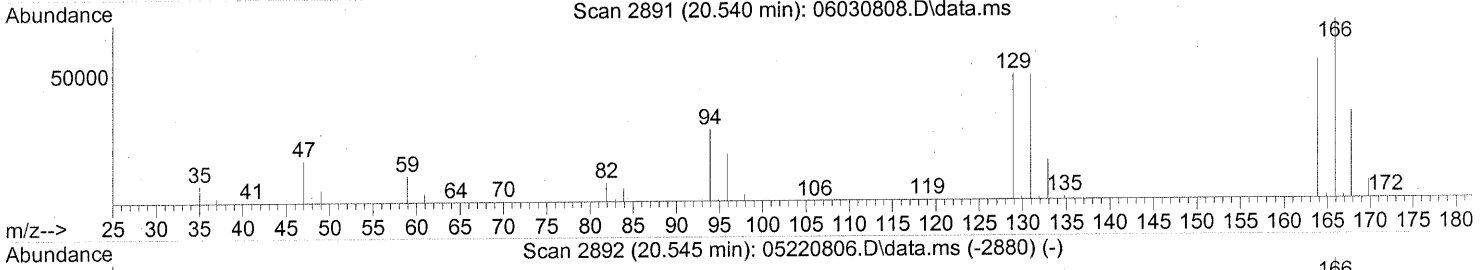
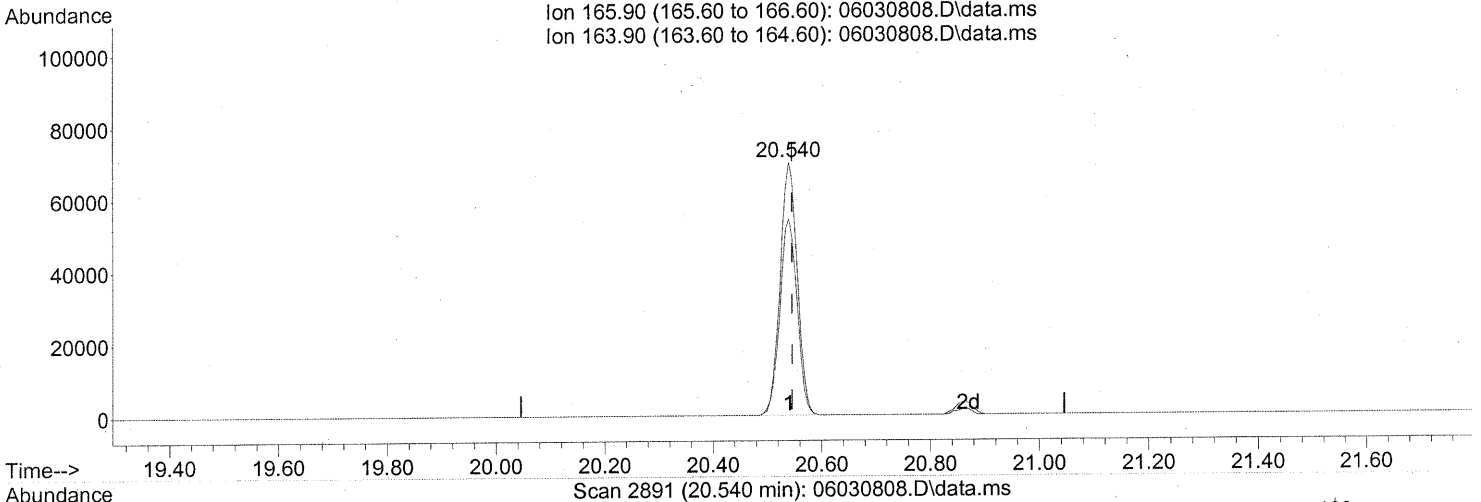
response 5403

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	15.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.540min (-0.006) 6.08ng

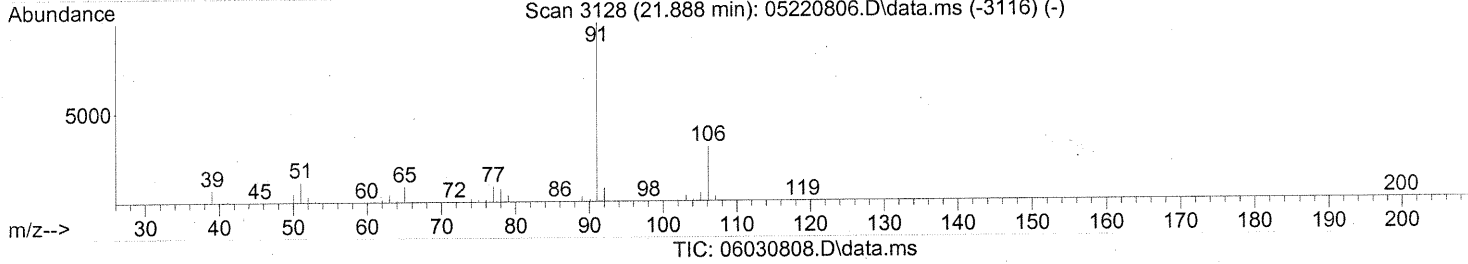
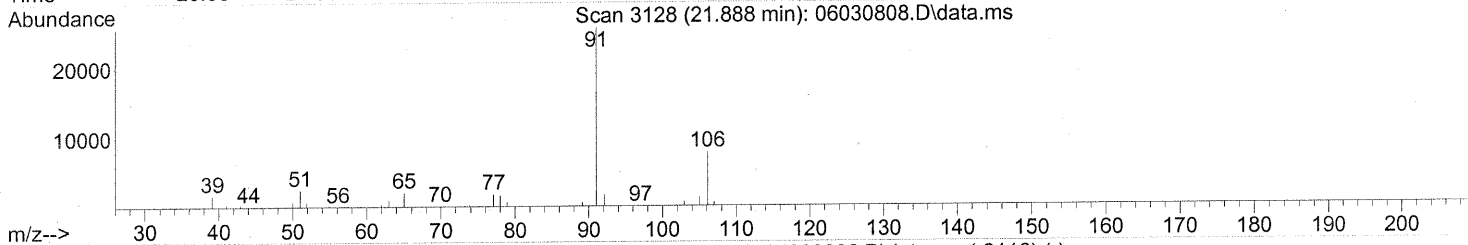
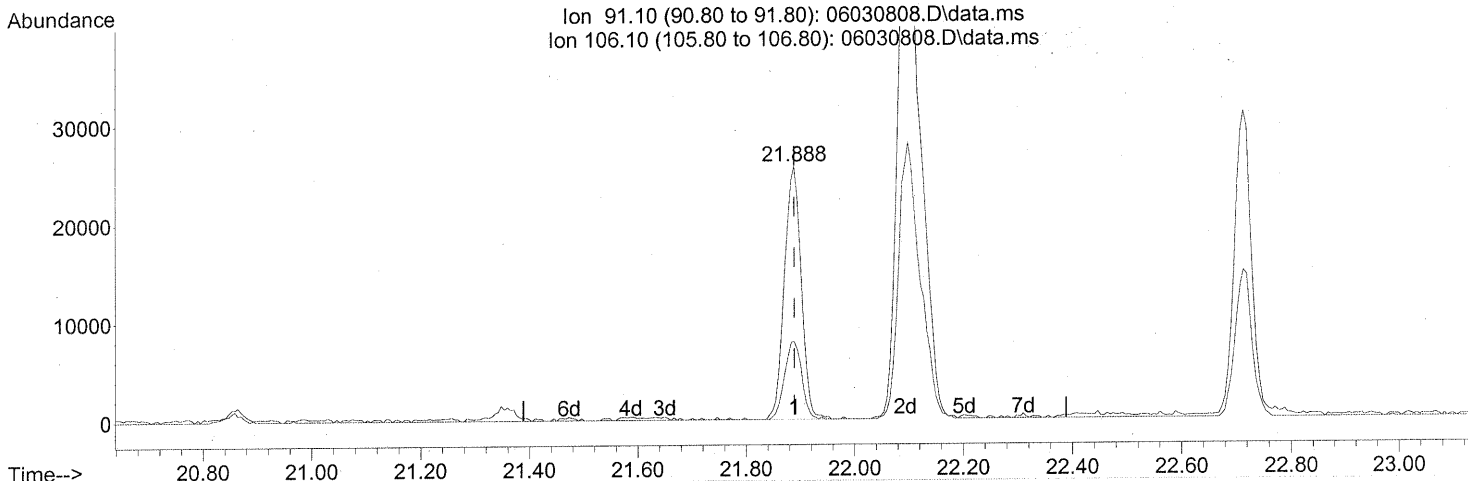
response 152357

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	77.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



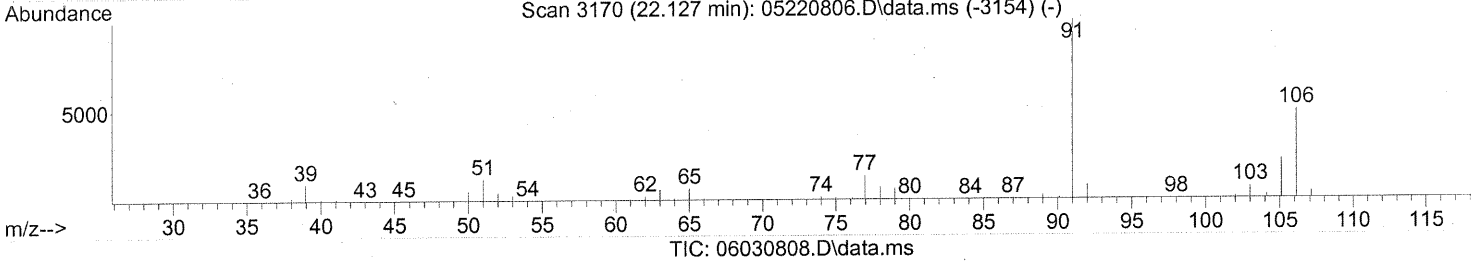
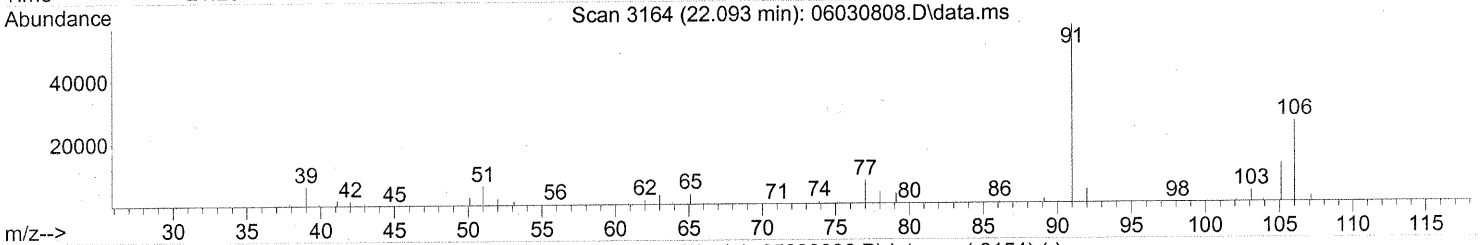
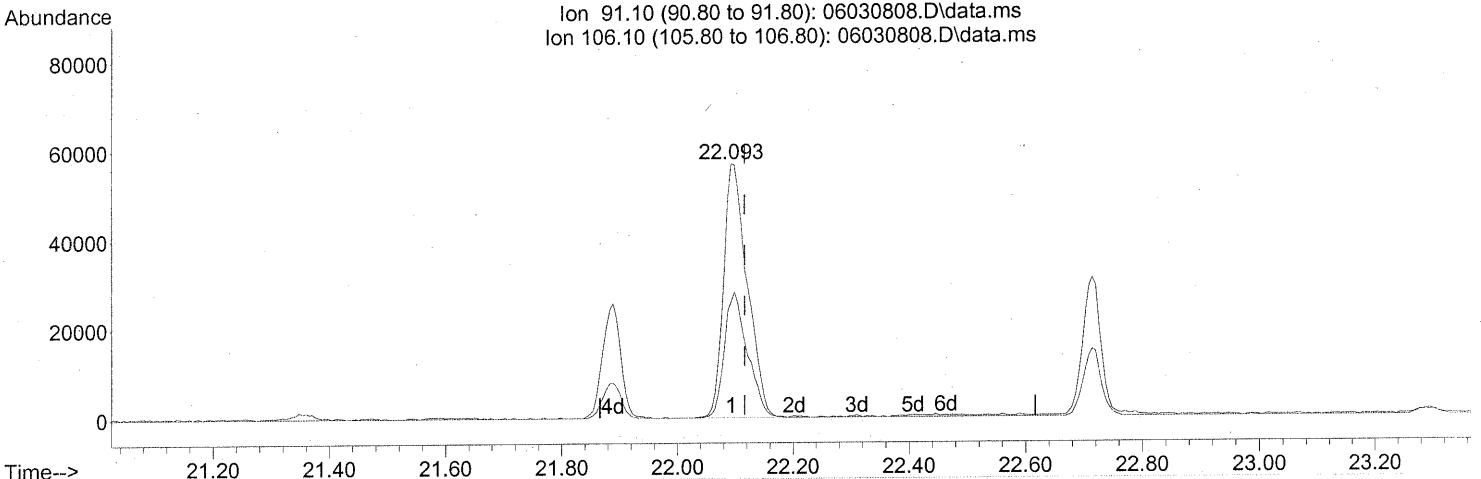
(66) Ethylbenzene (T)  
 21.888min (-0.000) 0.57ng  
 response 55409

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.41
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~-4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



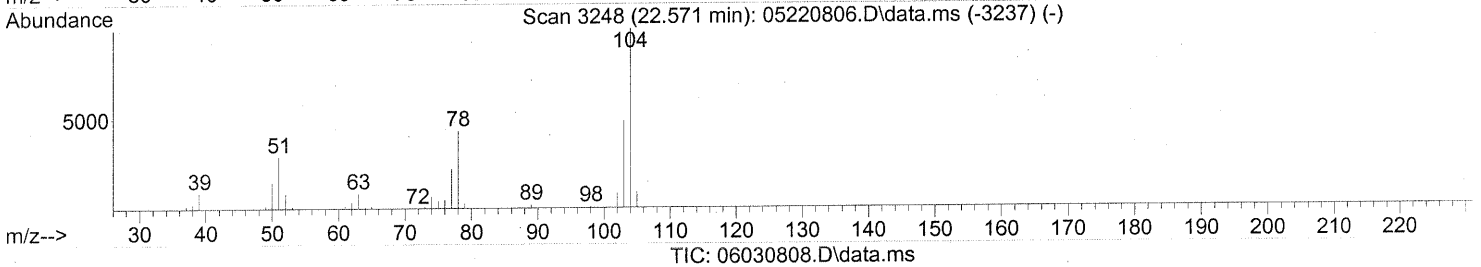
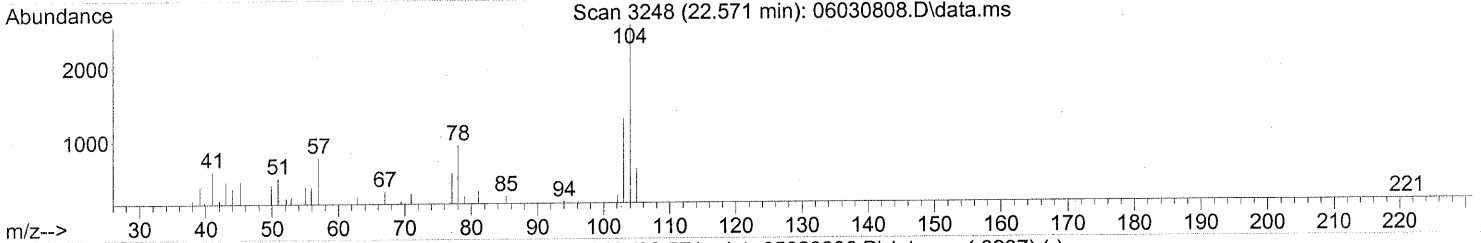
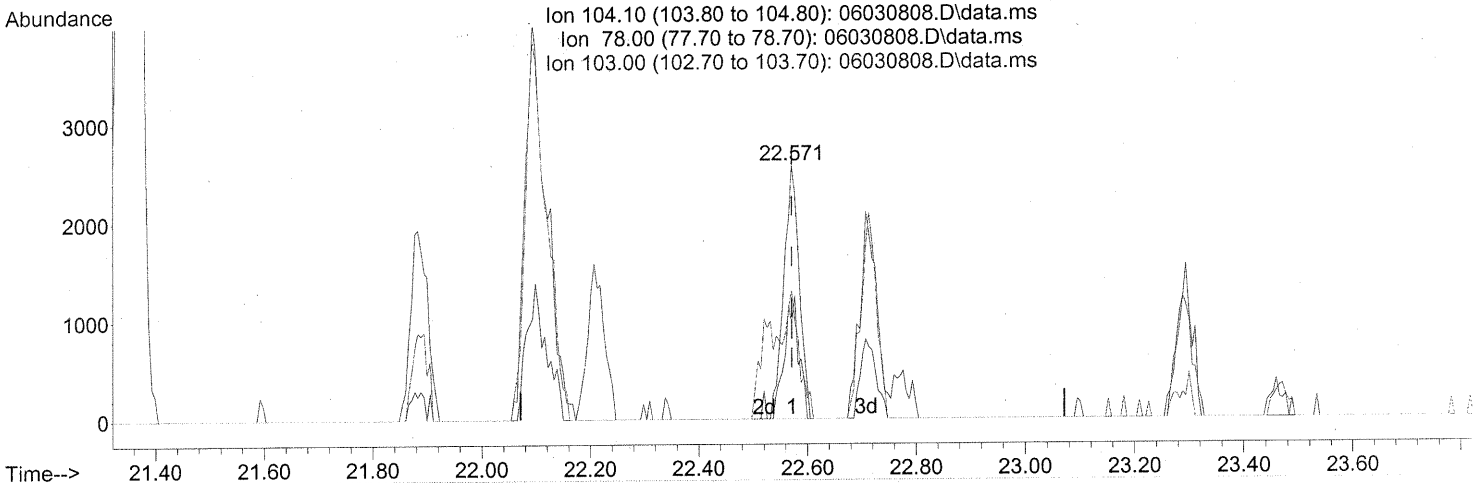
(67) m- & p-Xylene (T)  
 22.093min (-0.023) 2.48ng  
 response 160852

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(69) Styrene (T)

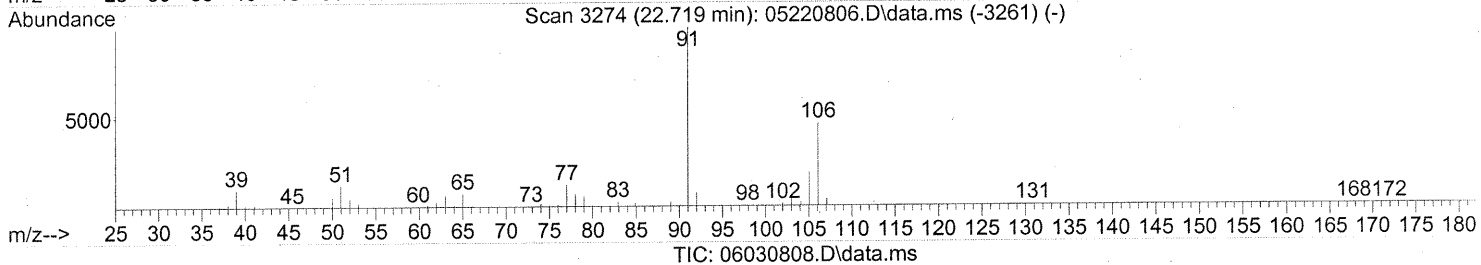
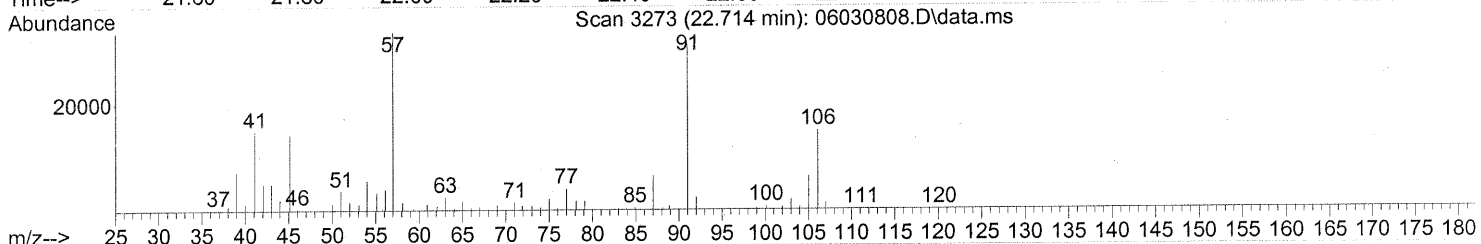
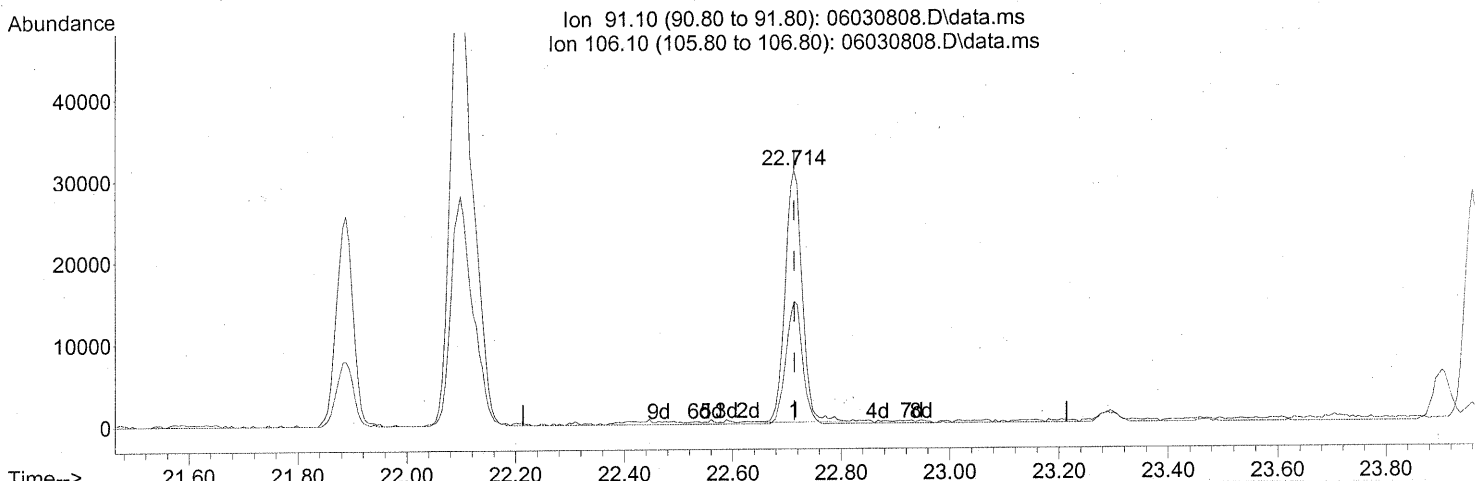
22.571min (-0.000) 0.09ng

response 5098

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	44.70
103.00	47.10	42.76
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (-0.000) 0.95ng

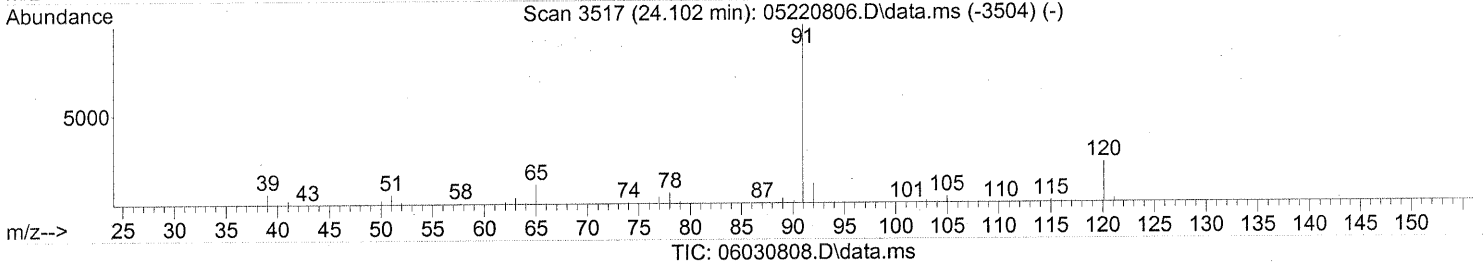
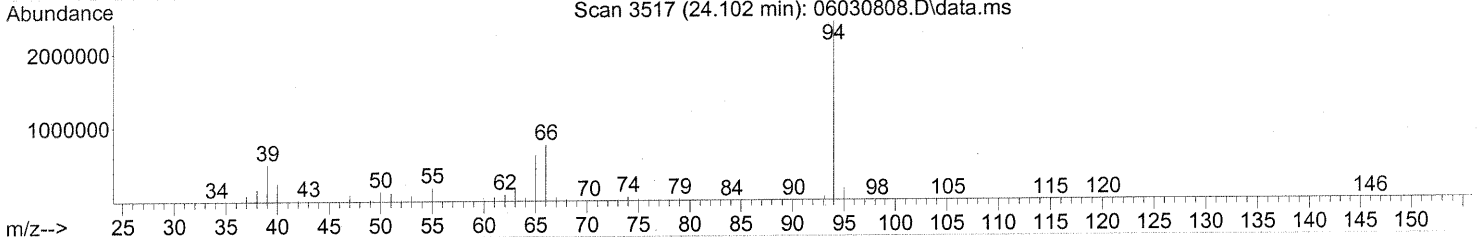
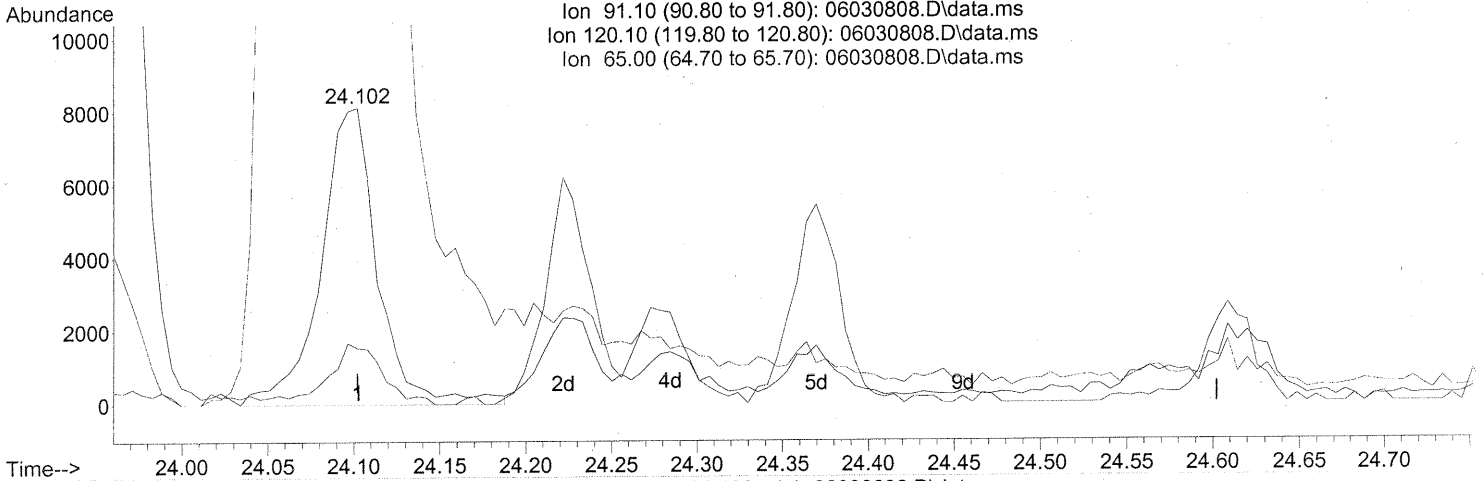
response 66705

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	47.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (-0.000) 0.16ng

response 18732

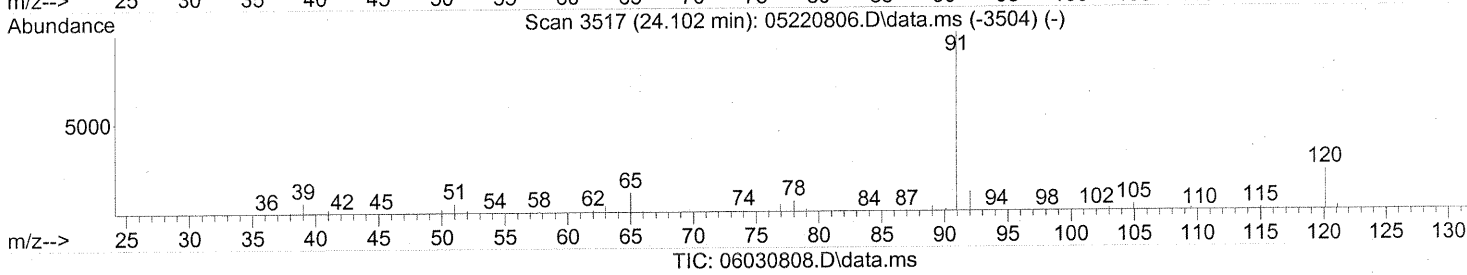
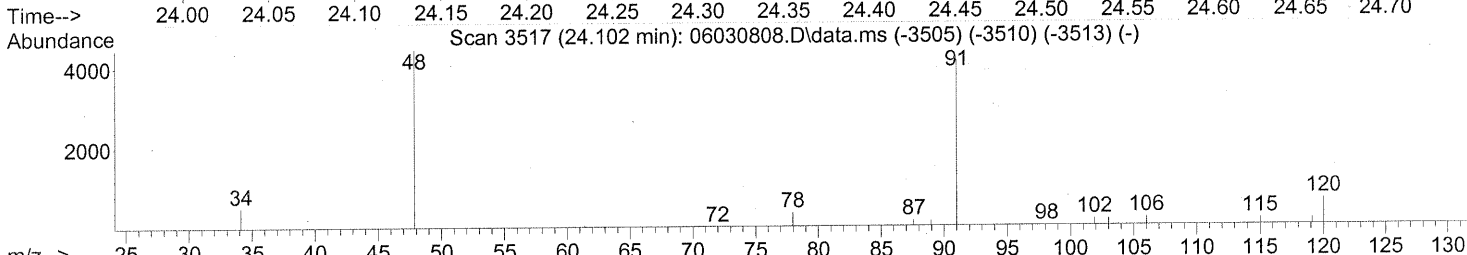
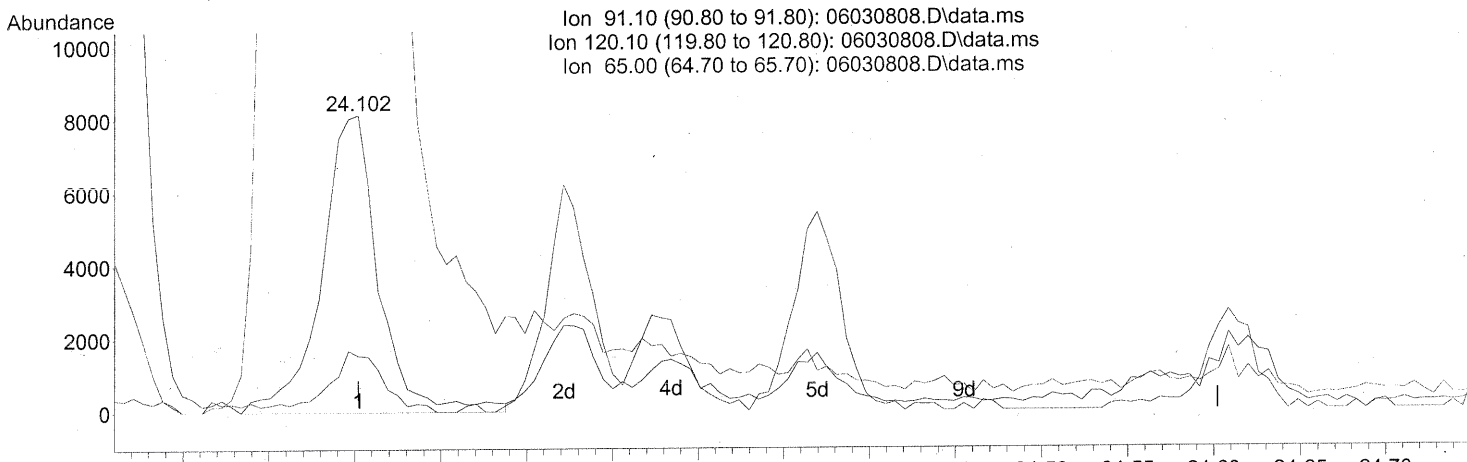
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.87
65.00	11.40	9828.32#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, -3.5) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)  
 24.102min (-0.000) 0.16ng  
 response 18732

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	19.87
65.00	11.40	9828.32#
0.00	0.00	0.00

AFTER SUBTRACTION

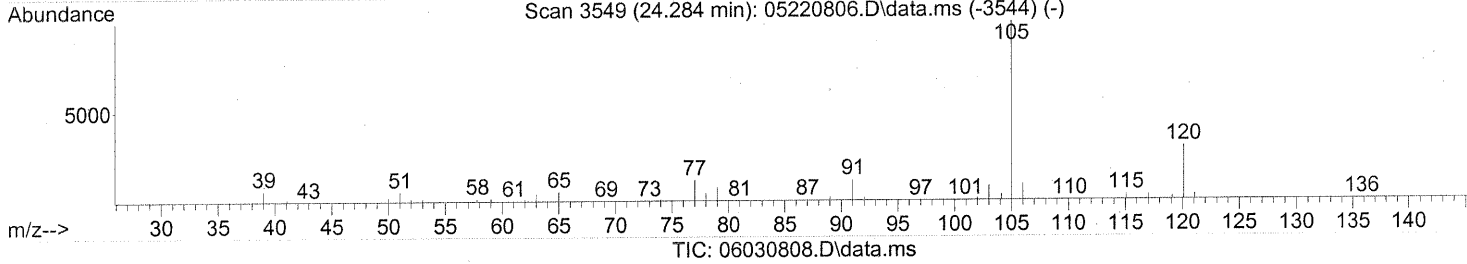
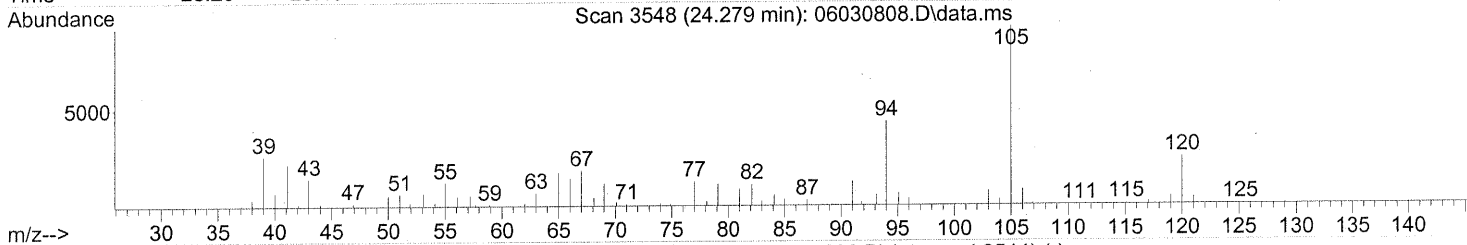
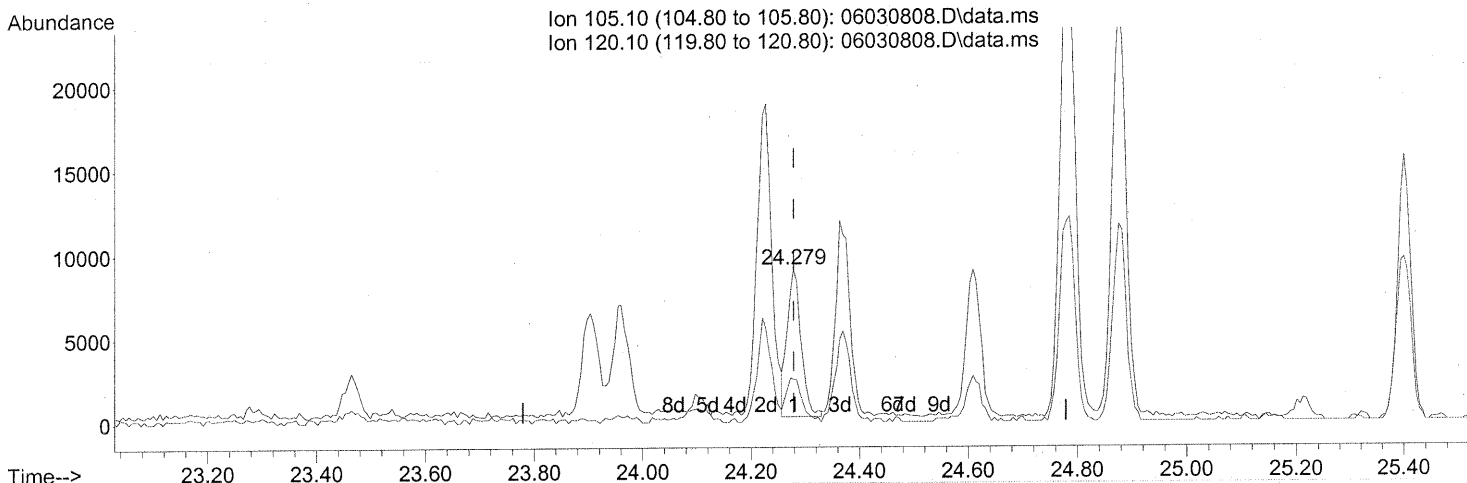
6/8/08

6/9/08

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.279min (-0.000) 0.17ng

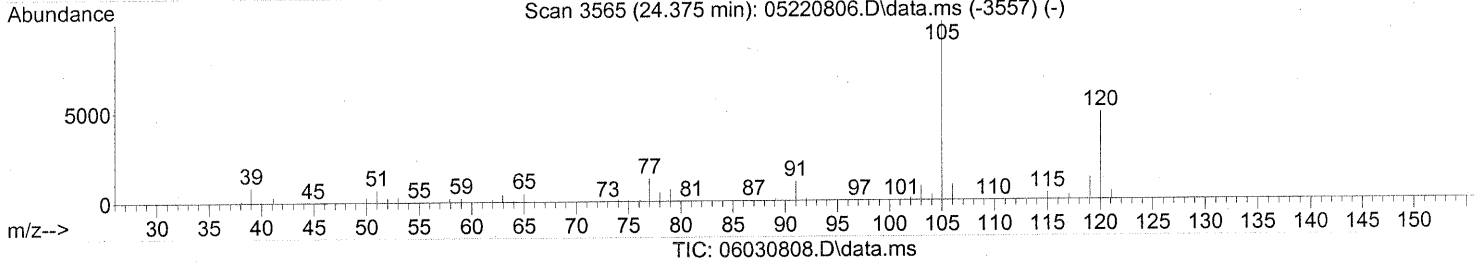
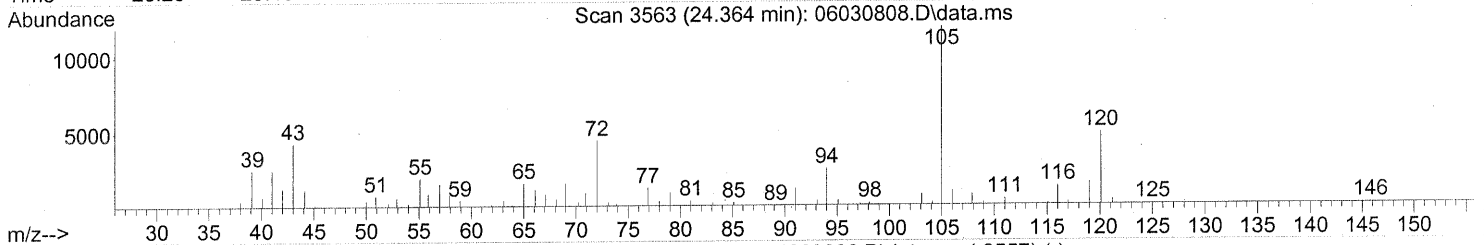
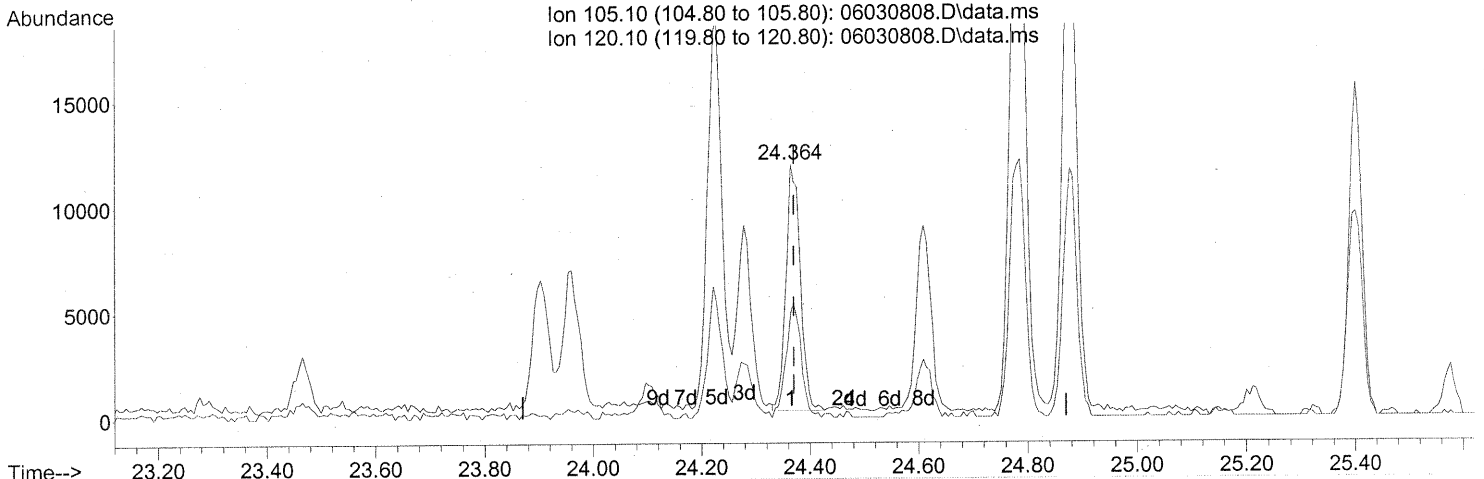
response 15671

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	34.30
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.364min (-0.006) 0.26ng

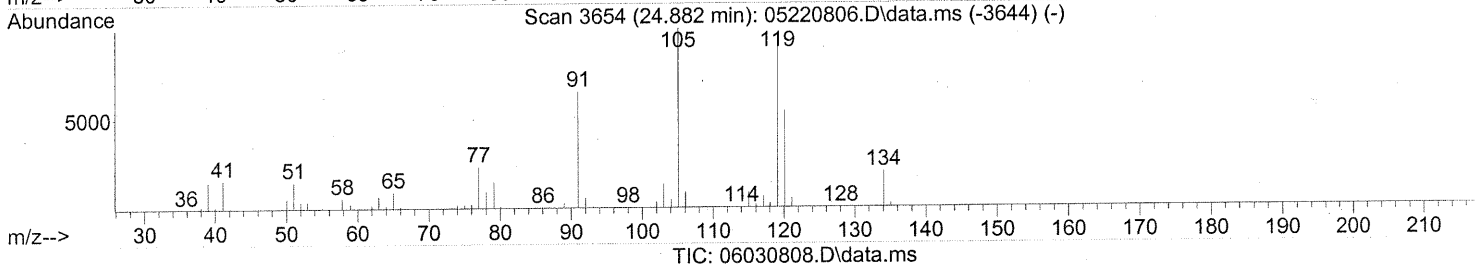
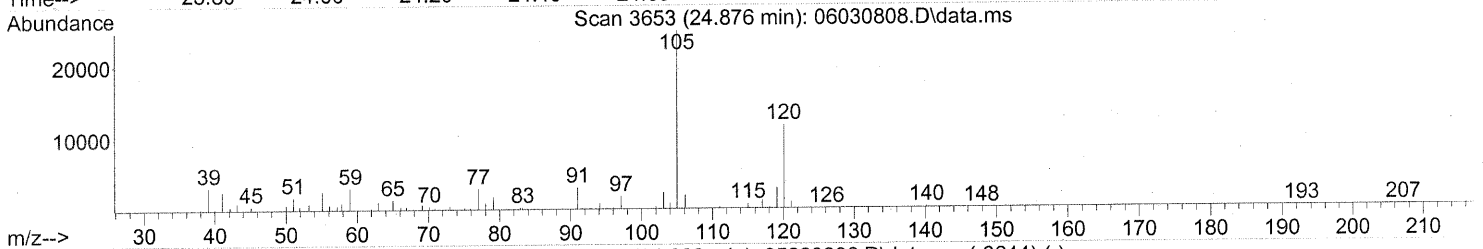
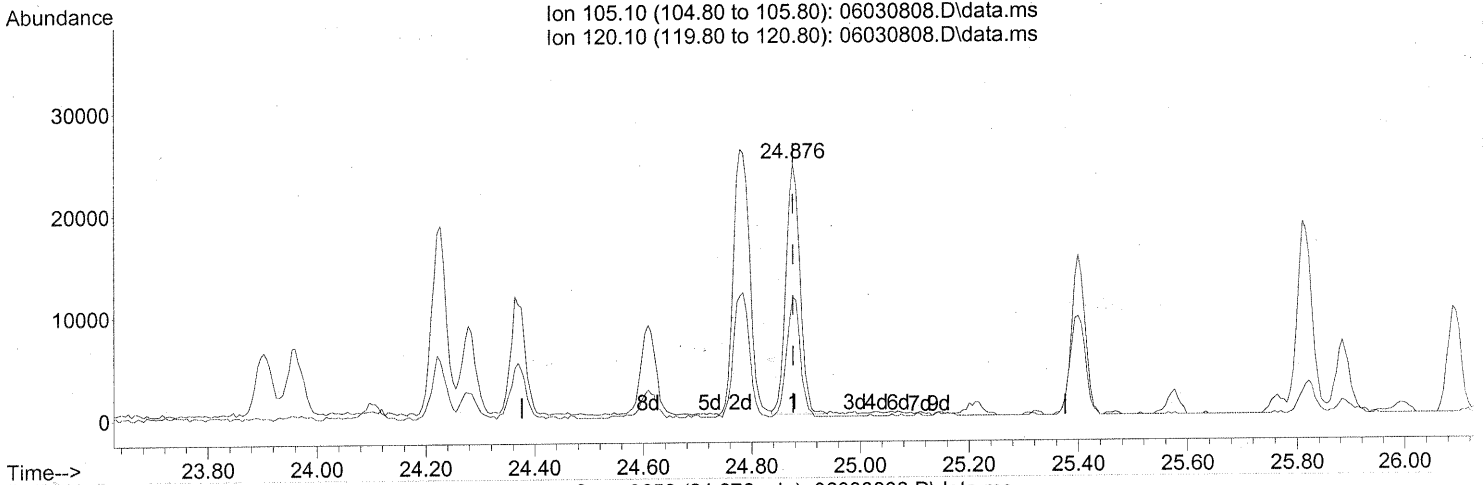
response 21436

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

24.876min (-0.000) 0.52ng

response 43990

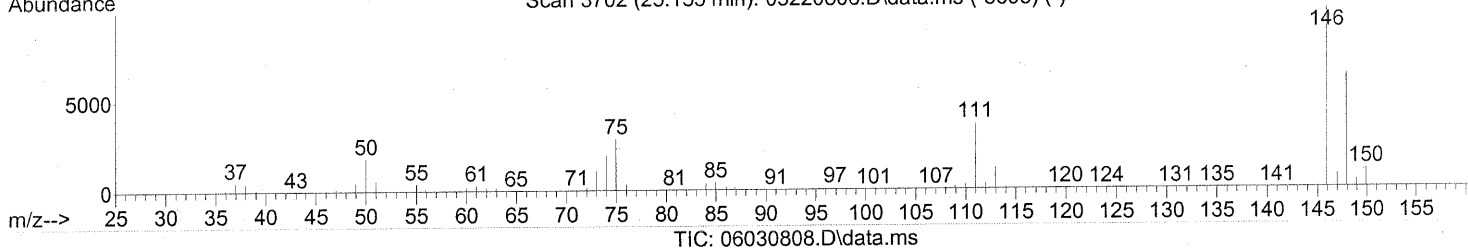
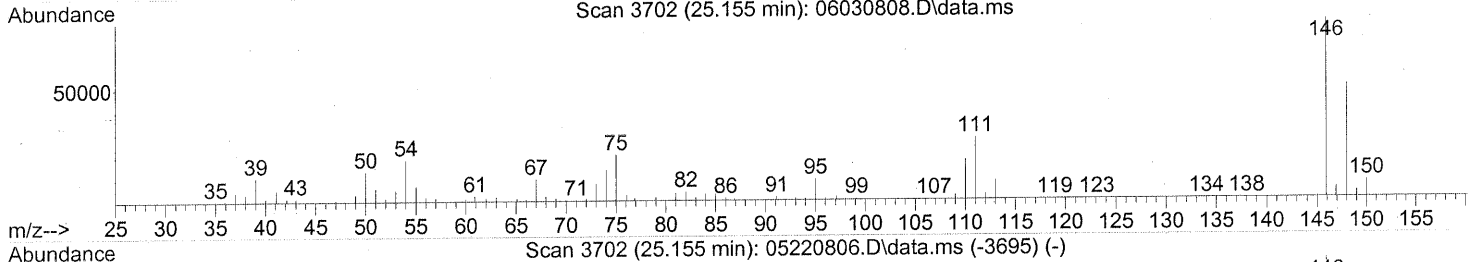
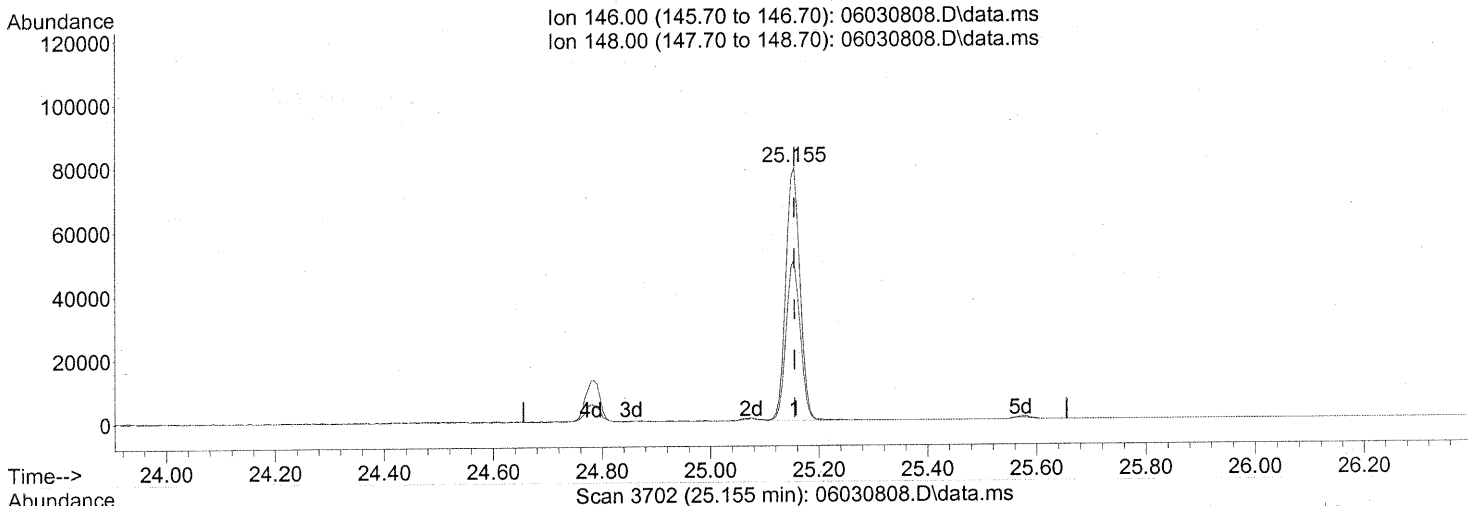
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	46.33
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qeal)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (-4.5, 3.5) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 2.82ng

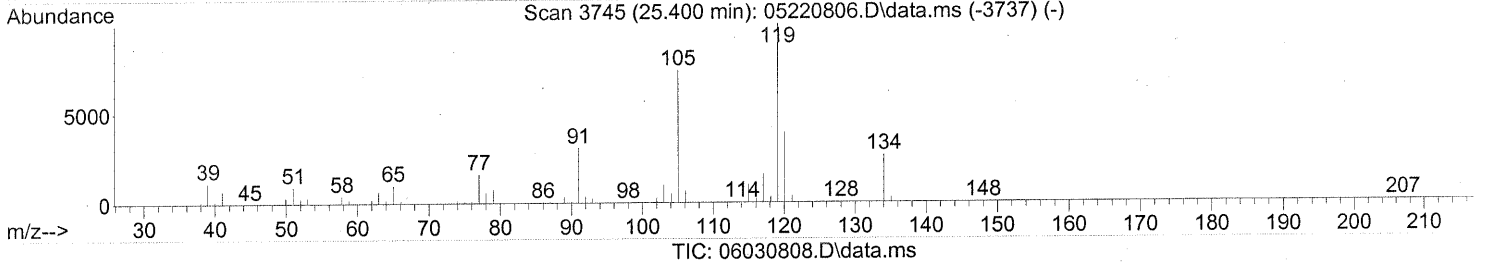
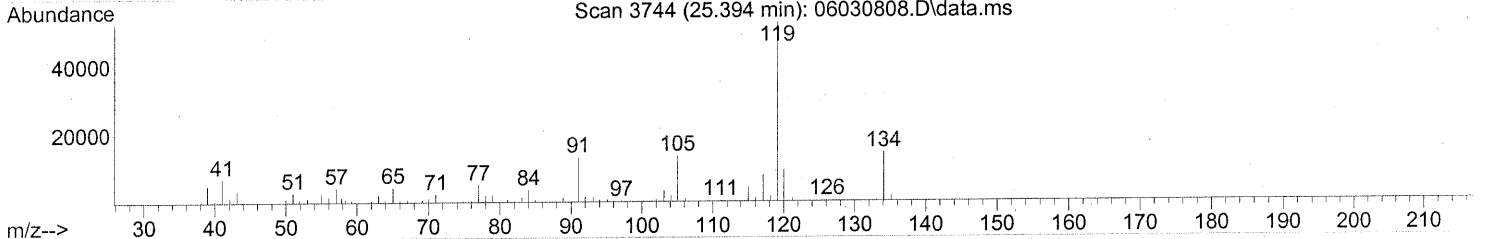
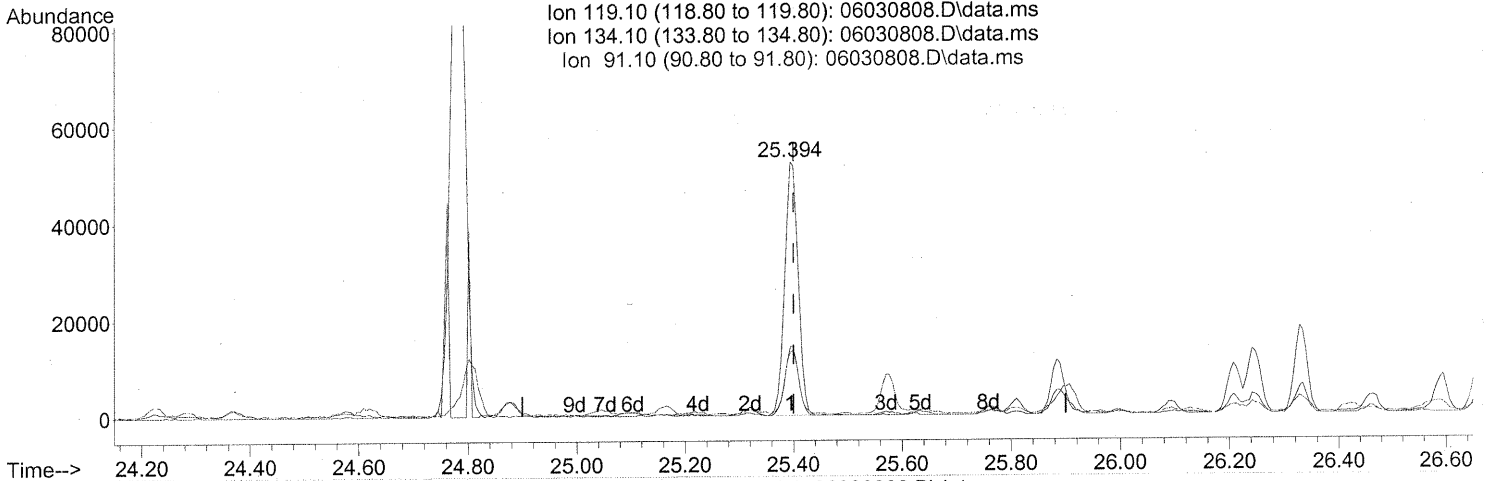
response 145450

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	63.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.394min (-0.006) 1.00ng

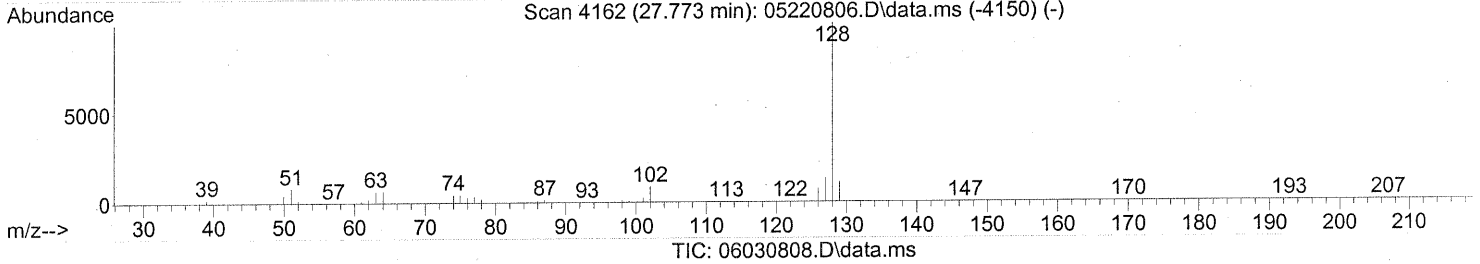
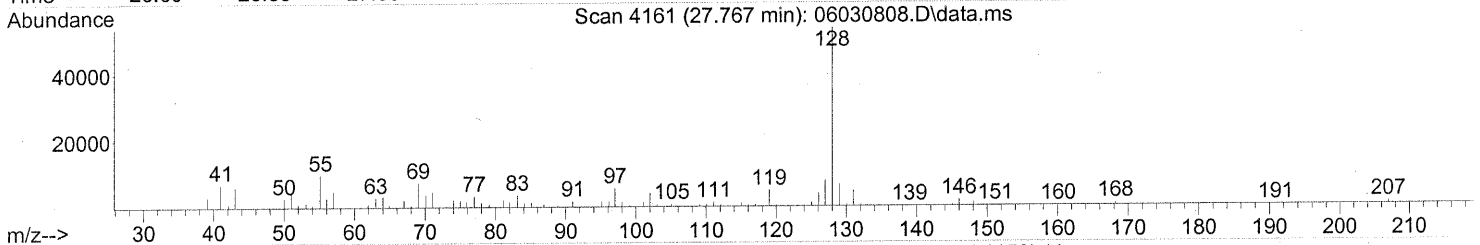
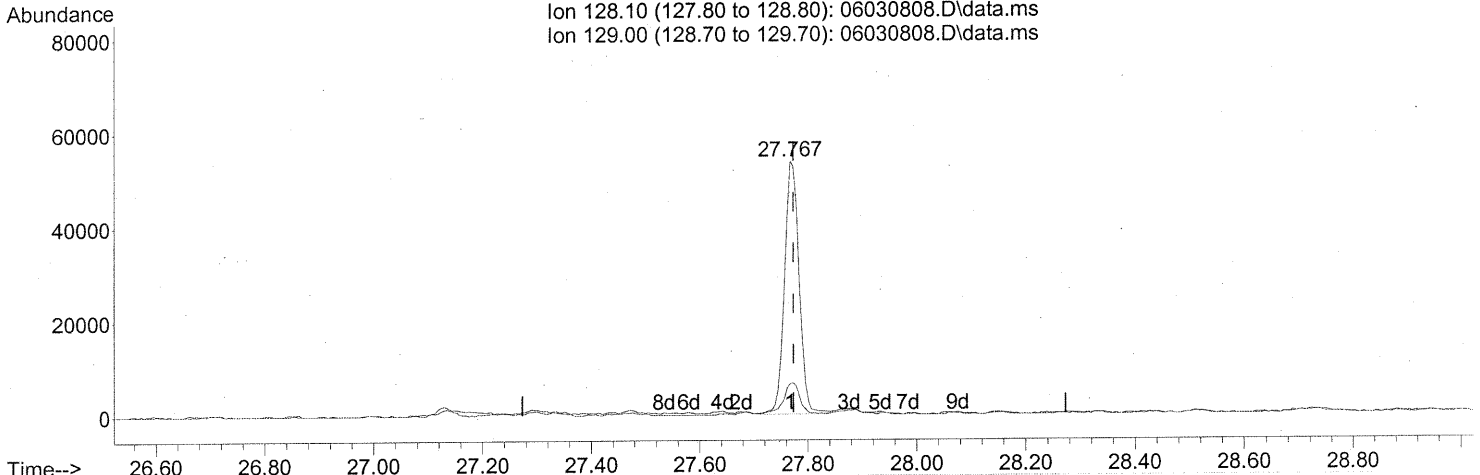
response 89792

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	27.30
91.10	27.10	27.29
0.00	0.00	0.00

Quantitation Report (Quant)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030808.D  
Acq On : 3 Jun 2008 2:32 pm  
Operator : RTB  
Sample : P0801548-017 (1000mL)  
Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 15:46:51 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(95) Naphthalene (T)

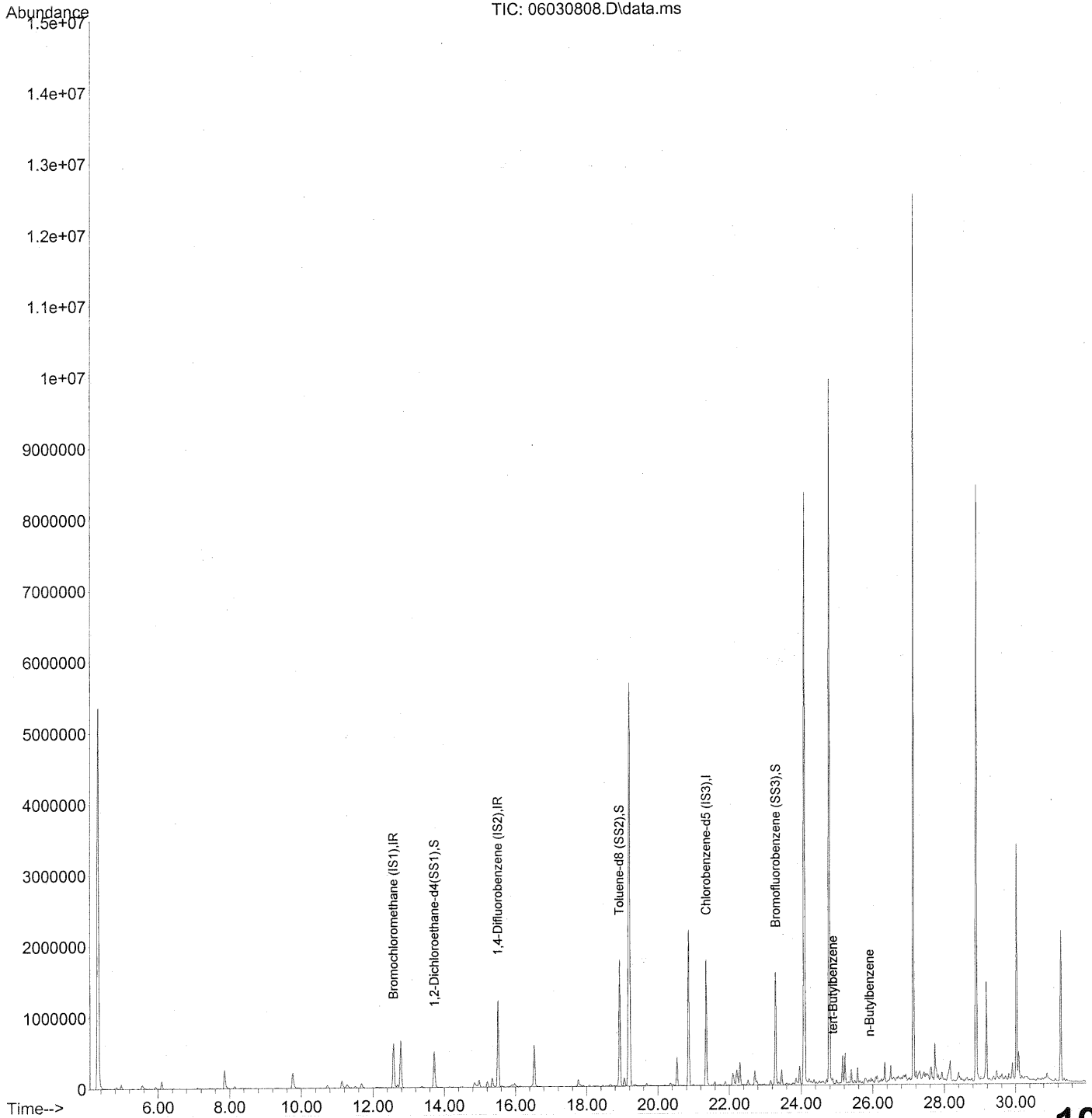
27.767min (-0.006) 0.90ng

response 101147

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.83
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:23:08 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~-4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:23:08 2008

Quant Method : J:\MS13\METHODS\S13052208.M

Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD

QLast Update : Sun May 25 20:32:30 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	330687	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1449298	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	693269	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	526466	22.977	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.92%	✓
5) Toluene-d8 (SS2)	18.92	98	1497769	24.056	ng	-0.02
Spiked Amount	25.000		Recovery	=	96.24%	✓
6) Bromofluorobenzene (SS3)	23.29	174	626549	24.746	ng	0.00
Spiked Amount	25.000		Recovery	=	99.00%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	6401	<del>0.079</del>	ng	MR# 67
8) n-Butylbenzene	25.91	91	14684	0.163	ng	# 55

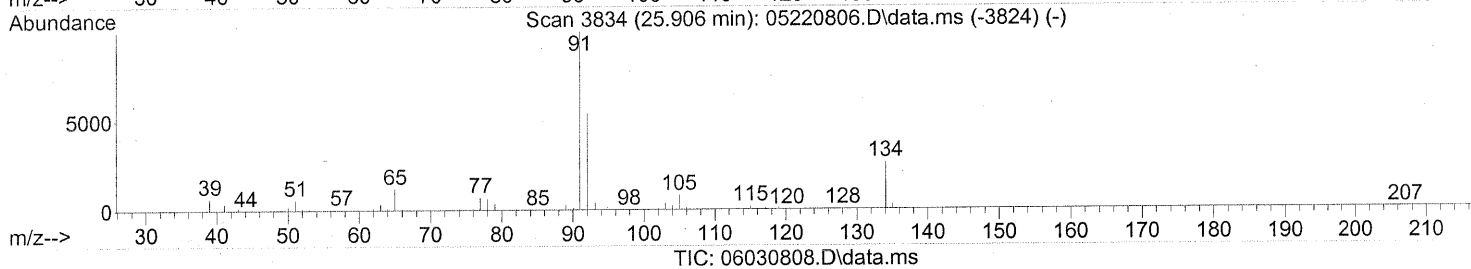
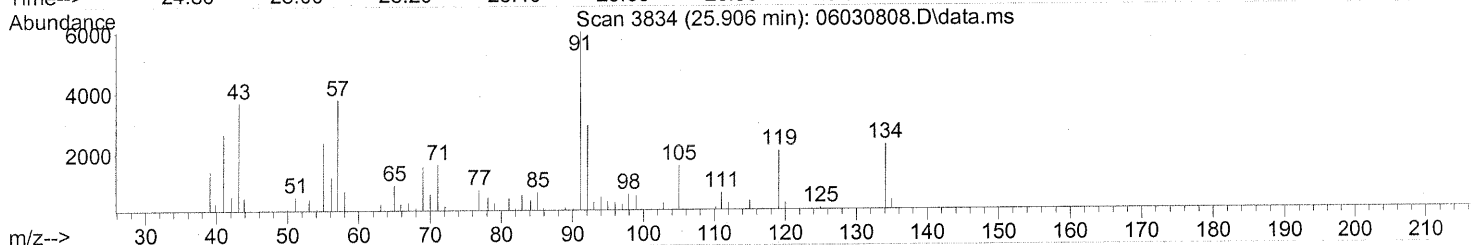
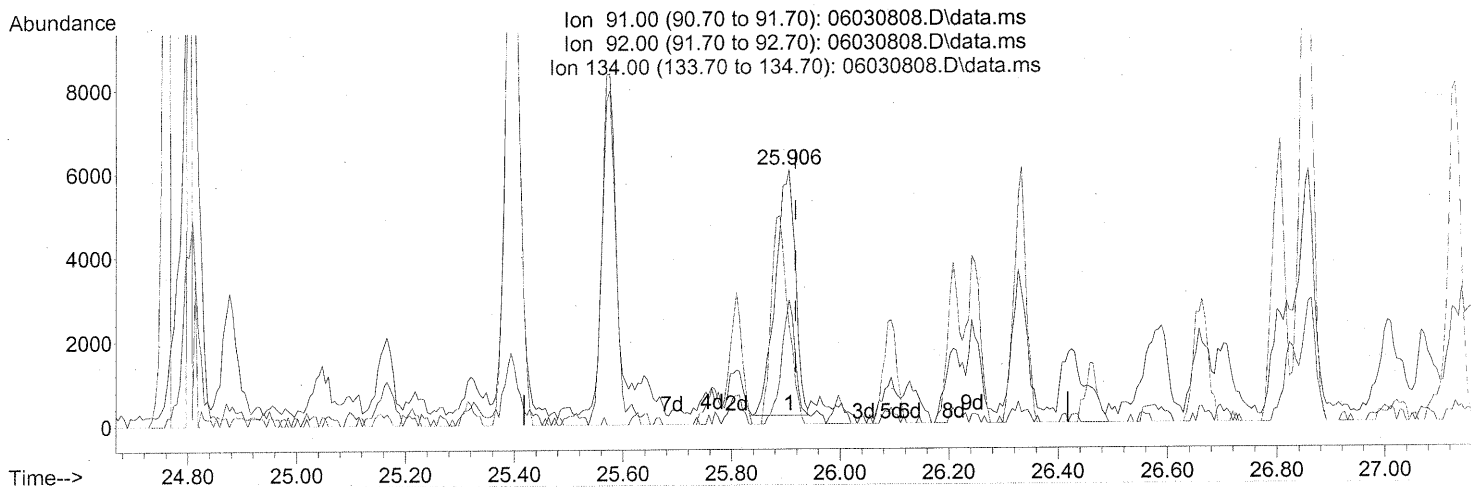
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/10/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030808.D  
 Acq On : 3 Jun 2008 2:32 pm  
 Operator : RTB  
 Sample : P0801548-017 (1000mL)  
 Misc : ENSR SG50B-05 (~~4.5, 3.5~~) (-2.4, 3.6)  
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 08 17:23:08 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.906min (-0.011) 0.16ng

response 14684

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	36.92#
134.00	28.80	72.38#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-018

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00295

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	36	3.6	ND	7.2	0.72	
74-87-3	Chloromethane	ND	7.1	3.6	ND	3.4	1.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	36	3.6	ND	5.1	0.51	
75-01-4	Vinyl Chloride	ND	7.1	3.6	ND	2.8	1.4	
74-83-9	Bromomethane	ND	7.1	3.6	ND	1.8	0.92	
75-00-3	Chloroethane	ND	7.1	3.6	ND	2.7	1.3	
64-17-5	<b>Ethanol</b>	<b>14</b>	360	3.6	<b>7.2</b>	190	1.9	<b>J, B</b>
67-64-1	<b>Acetone</b>	<b>23</b>	360	5.2	<b>9.6</b>	150	2.2	<b>J, B</b>
75-69-4	<b>Trichlorofluoromethane</b>	<b>3.8</b>	7.1	3.6	<b>0.68</b>	1.3	0.63	<b>J</b>
107-13-1	Acrylonitrile	ND	36	5.0	ND	16	2.3	
75-35-4	1,1-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	36	5.3	ND	12	1.7	
75-09-2	<b>Methylene Chloride</b>	<b>16</b>	36	3.6	<b>4.7</b>	10	1.0	<b>J</b>
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	7.1	3.6	ND	2.3	1.1	
76-13-1	Trichlorotrifluoroethane	ND	7.1	4.0	ND	0.93	0.52	
75-15-0	<b>Carbon Disulfide</b>	<b>14</b>	36	8.5	<b>4.4</b>	11	2.7	<b>J</b>
156-60-5	trans-1,2-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
75-34-3	<b>1,1-Dichloroethane</b>	<b>35</b>	7.1	3.6	<b>8.6</b>	1.8	0.88	
1634-04-4	Methyl tert-Butyl Ether	ND	7.1	3.6	ND	2.0	0.99	
108-05-4	Vinyl Acetate	ND	360	11	ND	100	3.2	
78-93-3	2-Butanone (MEK)	ND	36	3.6	ND	12	1.2	
156-59-2	cis-1,2-Dichloroethene	ND	7.1	3.6	ND	1.8	0.90	
108-20-3	Diisopropyl Ether	ND	36	4.2	ND	8.5	1.0	
67-66-3	<b>Chloroform</b>	<b>19,000</b>	7.1	4.2	<b>3,900</b>	1.5	0.86	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By:         

Date: 6/10/08

**1063**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-018

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00295

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	36	3.6	ND	8.5	0.87	
107-06-2	<b>1,2-Dichloroethane</b>	<b>5.8</b>	7.1	3.6	<b>1.4</b>	1.8	0.88	<b>J</b>
71-55-6	1,1,1-Trichloroethane	ND	7.1	3.6	ND	1.3	0.65	
71-43-2	<b>Benzene</b>	<b>3.8</b>	7.1	3.6	<b>1.2</b>	2.2	1.1	<b>J</b>
56-23-5	Carbon Tetrachloride	ND	7.1	3.6	ND	1.1	0.57	
994-05-8	tert-Amyl Methyl Ether	ND	36	3.6	ND	8.5	0.85	
78-87-5	1,2-Dichloropropane	ND	7.1	3.6	ND	1.5	0.77	
75-27-4	Bromodichloromethane	ND	7.1	3.6	ND	1.1	0.53	
79-01-6	Trichloroethene	ND	7.1	3.6	ND	1.3	0.66	
123-91-1	1,4-Dioxane	ND	36	4.3	ND	9.9	1.2	
80-62-6	Methyl Methacrylate	ND	36	5.3	ND	8.7	1.3	
142-82-5	n-Heptane	ND	36	4.6	ND	8.7	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	36	3.7	ND	7.8	0.82	
108-10-1	4-Methyl-2-pentanone	ND	36	4.0	ND	8.7	0.97	
10061-02-6	trans-1,3-Dichloropropene	ND	36	4.5	ND	7.8	0.99	
79-00-5	1,1,2-Trichloroethane	ND	7.1	3.6	ND	1.3	0.65	
108-88-3	<b>Toluene</b>	<b>13</b>	36	3.6	<b>3.4</b>	9.5	0.95	<b>J</b>
591-78-6	2-Hexanone	ND	36	5.4	ND	8.7	1.3	
124-48-1	Dibromochloromethane	ND	7.1	4.8	ND	0.84	0.57	
106-93-4	1,2-Dibromoethane	ND	7.1	3.8	ND	0.93	0.50	
111-65-9	n-Octane	ND	36	3.6	ND	7.6	0.76	
127-18-4	<b>Tetrachloroethene</b>	<b>20</b>	7.1	3.6	<b>2.9</b>	1.1	0.53	
108-90-7	Chlorobenzene	ND	7.1	3.6	ND	1.5	0.79	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

**1064**



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG54B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-018

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00295

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/2/08  
 Volume(s) Analyzed: 0.025 Liter(s)  
 0.0020 Liter(s)

Initial Pressure (psig): -4.5      Final Pressure (psig): 3.5

Canister Dilution Factor: 1.78

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	36	4.4	ND	8.2	1.0	
179601-23-1	m,p-Xylenes	ND	36	9.3	ND	8.2	2.1	
75-25-2	Bromoform	ND	36	5.4	ND	3.4	0.52	
100-42-5	Styrene	ND	36	5.4	ND	8.4	1.3	
95-47-6	o-Xylene	ND	36	4.5	ND	8.2	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	7.1	4.6	ND	1.0	0.66	
98-82-8	Cumene	ND	36	4.0	ND	7.2	0.81	
103-65-1	n-Propylbenzene	ND	36	3.7	ND	7.2	0.75	
622-96-8	4-Ethyltoluene	ND	36	4.1	ND	7.2	0.83	
108-67-8	1,3,5-Trimethylbenzene	ND	36	4.3	ND	7.2	0.87	
98-83-9	alpha-Methylstyrene	ND	36	5.2	ND	7.4	1.1	
95-63-6	1,2,4-Trimethylbenzene	ND	36	4.9	ND	7.2	1.0	
100-44-7	Benzyl Chloride	ND	7.1	6.1	ND	1.4	1.2	
541-73-1	1,3-Dichlorobenzene	ND	7.1	4.4	ND	1.2	0.73	
106-46-7	1,4-Dichlorobenzene	ND	7.1	4.0	ND	1.2	0.66	
135-98-8	sec-Butylbenzene	ND	36	4.1	ND	6.5	0.75	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	36	4.6	ND	6.5	0.84	
95-50-1	1,2-Dichlorobenzene	ND	7.1	4.7	ND	1.2	0.78	
96-12-8	1,2-Dibromo-3-chloropropane	ND	36	5.4	ND	3.7	0.56	
120-82-1	1,2,4-Trichlorobenzene	ND	7.1	5.4	ND	0.96	0.73	
91-20-3	Naphthalene	ND	14	5.3	ND	2.7	1.0	
87-68-3	Hexachlorobutadiene	ND	7.1	6.4	ND	0.67	0.60	
98-06-6	tert-Butylbenzene	ND	14	3.6	ND	2.6	0.65	
104-51-8	n-Butylbenzene	ND	14	3.6	ND	2.6	0.65	

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

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

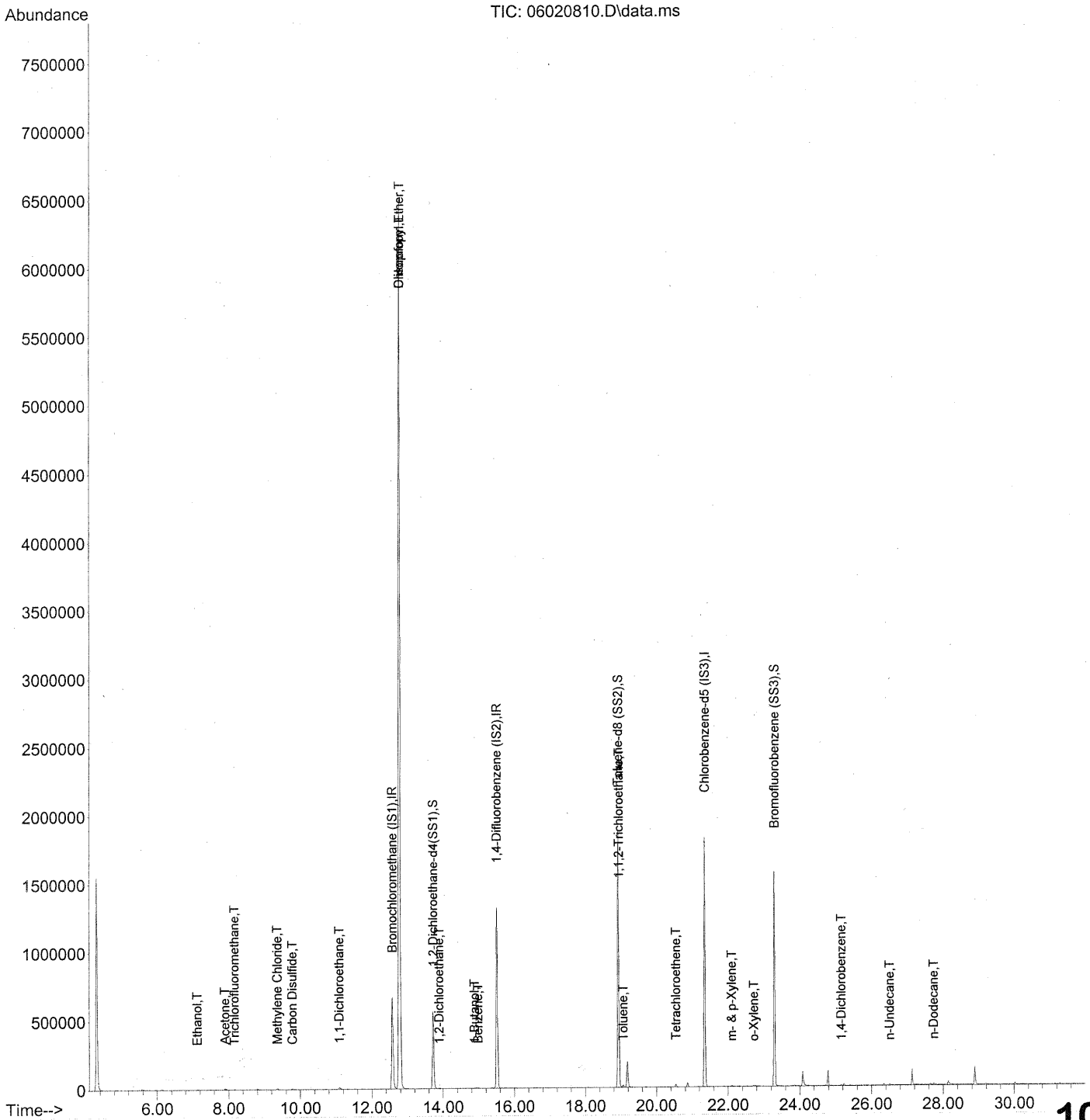
Verified By: *CA*

Date: *6/10/08*

**1065**

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020810.D  
Acq On : 2 Jun 2008 3:47 pm  
Operator : RTB  
Sample : P0801548-018 (25mL)  
Misc : ENSR SG54B-05 (-4.5, 3.5) ✓  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008

Quant Method : J:\MS13\METHODS\R13052208.M

Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

QLast Update : Thu May 22 11:37:04 2008

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	361649	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1563505	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	721320	25.000	ng	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...)	13.72	65	575205	22.954	ng	0.00
Spiked Amount	25.000		Recovery =	91.80%	✓	
57) Toluene-d8 (SS2)	18.92	98	1597248	24.656	ng	0.00
Spiked Amount	25.000		Recovery =	98.64%	✓	
73) Bromofluorobenzene (SS3)	23.29	174	621586	23.596	ng	0.00
Spiked Amount	25.000		Recovery =	94.40%	✓	
Target Compounds						
						Qvalue
2) Propene	4.83	42	667	N.D.		
3) Dichlorodifluoromethane	4.98	85	1552	N.D. ✓		
4) Chloromethane	5.33	50	206	N.D. ✓		
5) Freon 114	0.00	135	0	N.D. ✓		
6) Vinyl Chloride	5.77	62	1355	N.D. ✓		
7) 1,3-Butadiene	0.00	54	0	N.D.		
8) Bromomethane	6.52	94	178	N.D. ✓		
9) Chloroethane	0.00	64	0	N.D. ✓		
10) Ethanol	7.12	45	3619	0.190 ng		84
11) Acetonitrile	7.49	41	949	N.D.		
12) Acrolein	7.67	56	261	N.D.		
13) Acetone	7.89	58	6253m	0.321 ng		
14) Trichlorofluoromethane	8.16	101	2458	0.054 ng		95
15) Isopropanol	8.35	45	907	N.D.		
16) Acrylonitrile	0.00	53	0	N.D. ✓		
17) 1,1-Dichloroethene	9.16	96	58	N.D. ✓		
18) tert-Butanol	9.28	59	55	N.D. ✓		
19) Methylene Chloride	9.36	84	5029	0.231 ng		84
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D. ✓		
22) Carbon Disulfide	9.77	76	15843	0.192 ng		99
23) trans-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
24) 1,1-Dichloroethane	11.09	63	18432	0.488 ng		97
25) Methyl tert-Butyl Ether	0.00	73	0	N.D. ✓		
26) Vinyl Acetate	0.00	86	0	N.D. ✓		
27) 2-Butanone	11.72	72	293	N.D. ✓		
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.78	87	758609	<del>43.570 ng</del>	MR #	1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.71	57	322	N.D.		

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	7024298	<del>213.000</del>	ng	99
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	2596m	0.081	ng	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	14.88	56	2833	0.132	ng	94
41) Benzene	14.98	78	4365	0.053	ng	92
42) Carbon Tetrachloride	15.21	117	311	N.D. ✓		
43) Cyclohexane	15.42	84	856	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	16.48	83	894	N.D. ✓		
47) Trichloroethene	16.53	130	434	N.D. ✓		
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	16.62	57	1286	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D. ✓		
51) n-Heptane	16.98	71	56	N.D. ✓		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.80	58	56	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	139651	<del>6.903</del>	ng	8
58) Toluene	19.06	91	15931	0.181	ng	99
59) 2-Hexanone	19.38	43	772	N.D. ✓		
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.35	43	590	N.D.		
63) n-Octane	20.35	57	148	N.D. ✓		
64) Tetrachloroethene	20.54	166	7239	0.278	ng	99
65) Chlorobenzene	21.40	112	806	N.D. ✓		
66) Ethylbenzene	21.89	91	3480	N.D. ✓		
67) m- & p-Xylene	22.10	91	8398	<del>0.124</del>	ng	95
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	22.57	104	455	N.D. ✓		
70) o-Xylene	22.72	91	3401	<del>0.047</del>	ng	82
71) n-Nonane	22.98	43	557	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. ✓		
74) Cumene	23.52	105	55	N.D. ✓		
75) alpha-Pinene	23.96	93	229	N.D.		
76) n-Propylbenzene	24.10	91	663	N.D. ✓		
77) 3-Ethyltoluene	24.23	105	1715	N.D.		
78) 4-Ethyltoluene	24.28	105	1131	N.D. ✓		
79) 1,3,5-Trimethylbenzene	24.36	105	1030	N.D. ✓		

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	55	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	806	N.D.	✓	
82) 1,2,4-Trimethylbenzene	24.88	105	2236	N.D.	✓	
83) n-Decane	24.98	57	1204	N.D.	✓	
84) Benzyl Chloride	25.04	91	53	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	255	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	2249	<del>0.042 ng</del>		97
87) sec-Butylbenzene	25.41	105	1045	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	546	N.D.	✓	
89) 1,2,3-Trimethylbenzene	25.41	105	1045	N.D.	✓	
90) 1,2-Dichlorobenzene	25.58	146	1071	N.D.	✓	
91) d-Limonene	25.57	68	263	N.D.	✓	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	✓	
93) n-Undecane	26.50	57	3079	0.060 ng		# 39
94) 1,2,4-Trichlorobenzene	27.64	180	143	N.D.	✓	
95) Naphthalene	27.78	128	4552	N.D.	✓	
96) n-Dodecane	27.73	57	4920	0.097 ng		92
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	✓	

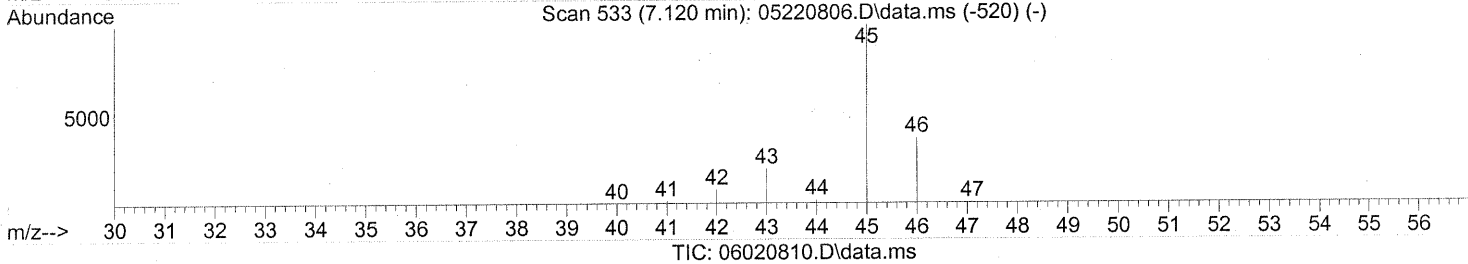
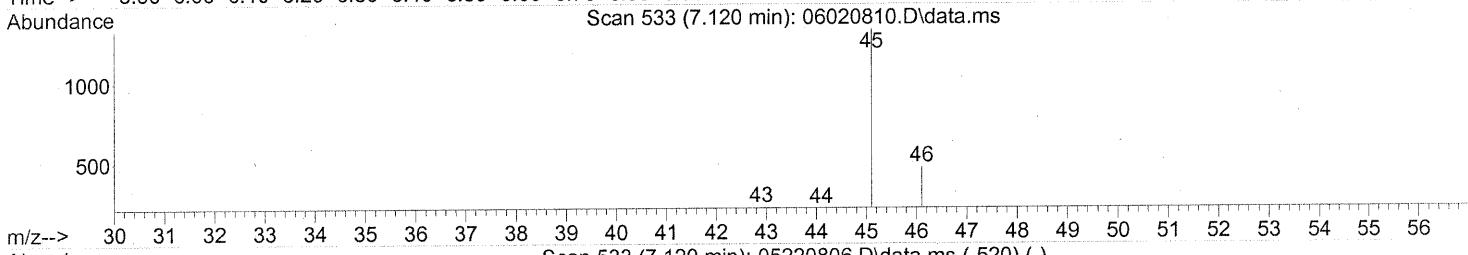
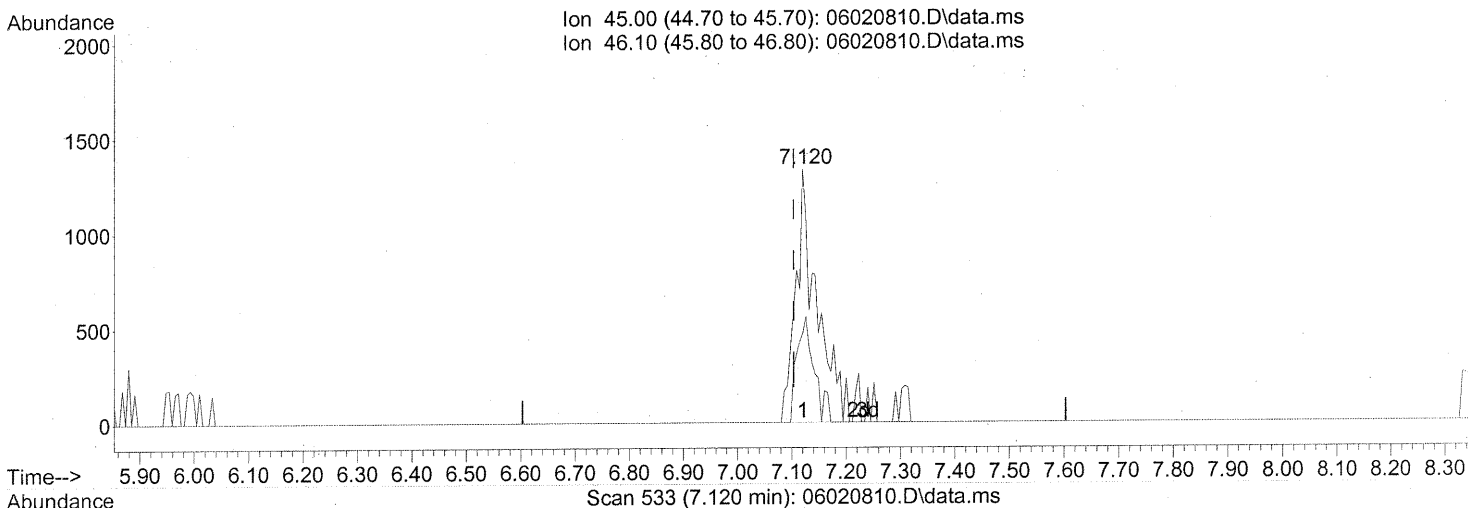
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*FOG/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020810.D  
Acq On : 2 Jun 2008 3:47 pm  
Operator : RTB  
Sample : P0801548-018 (25mL)  
Misc : ENSR SG54B-05 (-4.5, 3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 16:35:35 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



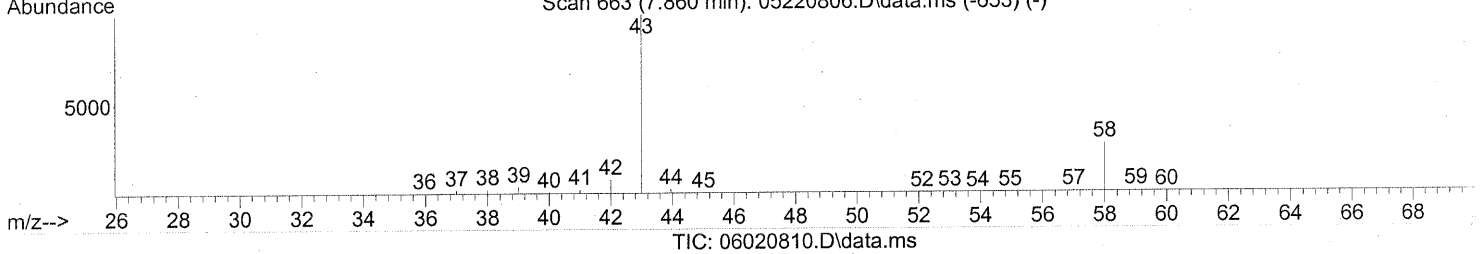
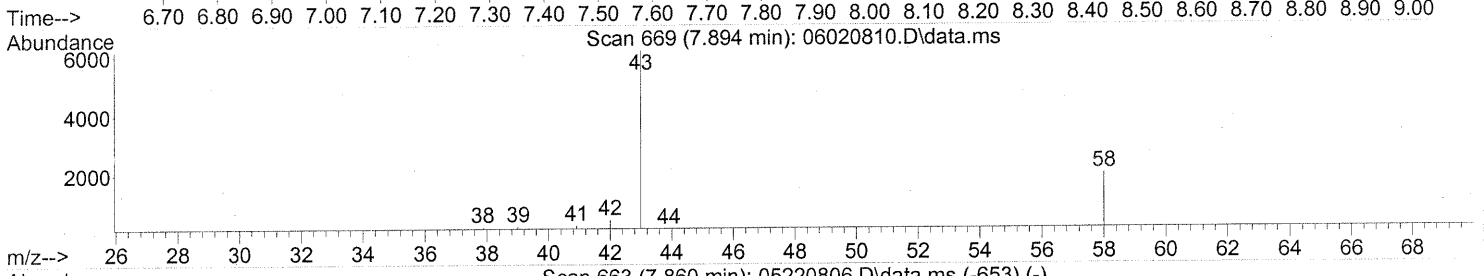
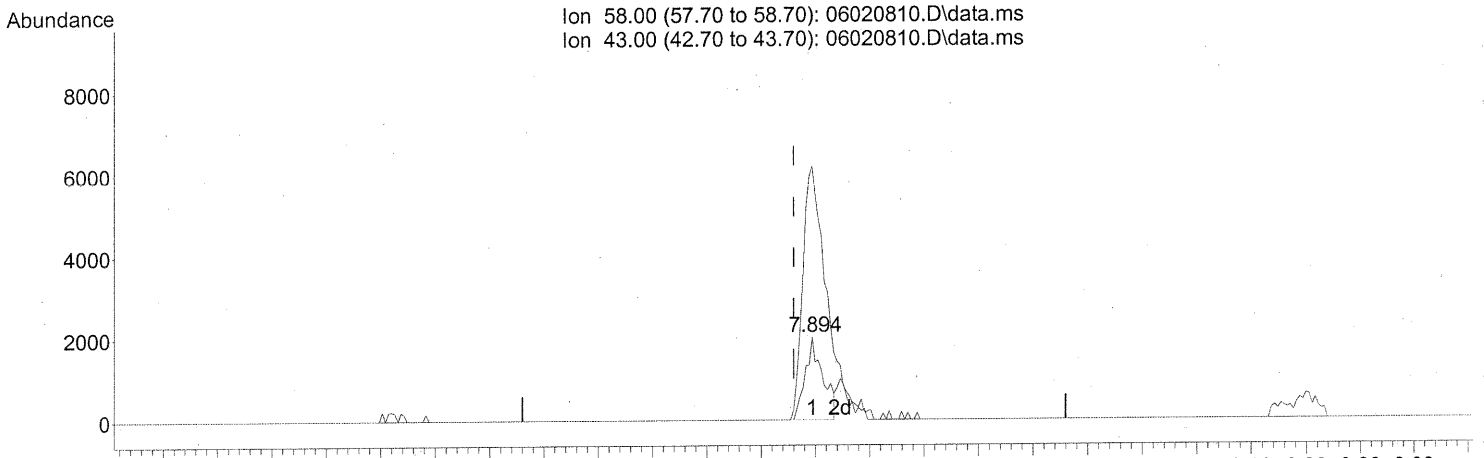
(10) Ethanol (T)  
7.120min (+0.017) 0.19ng  
response 3619

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	30.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020810.D  
Acq On : 2 Jun 2008 3:47 pm  
Operator : RTB  
Sample : P0801548-018 (25mL)  
Misc : ENSR SG54B-05 (-4.5, 3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 16:35:35 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.894min (+0.034) 0.24ng

response 4578

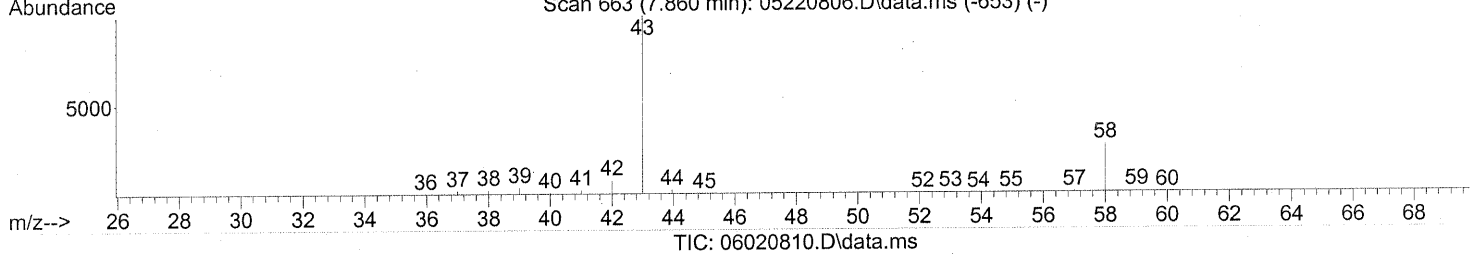
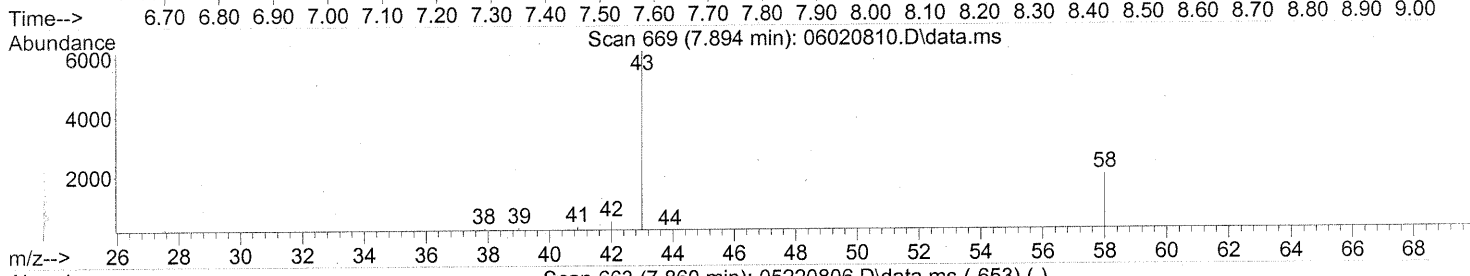
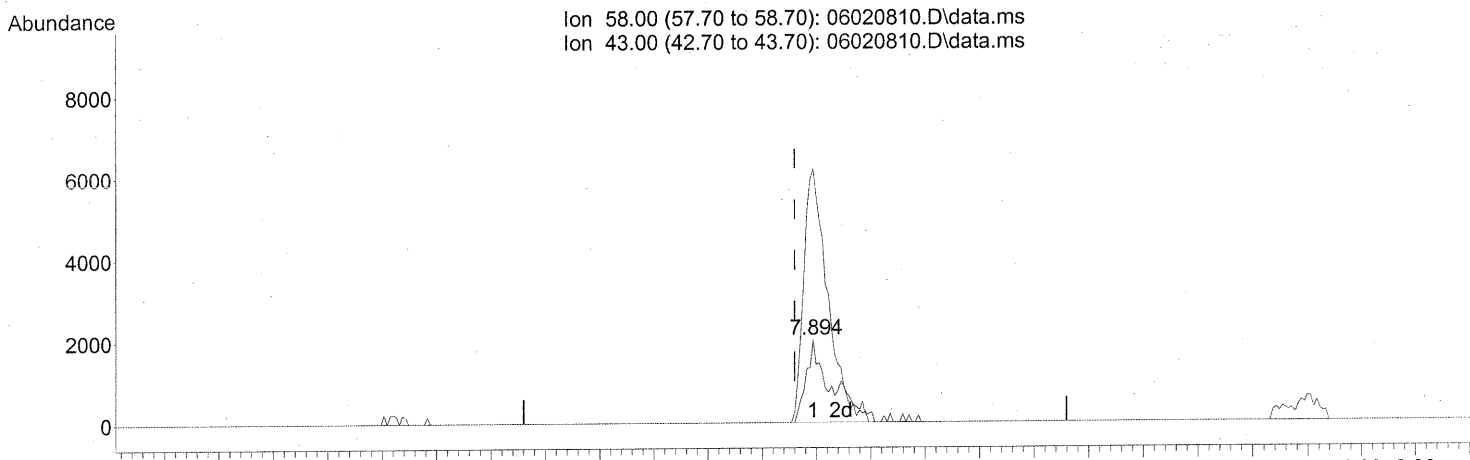
Ion	Exp%	Act%
58.00	100	100
43.00	283.10	423.00#
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Quantitation Report (Qealt)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 16:35:35 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.894min (+0.034) 0.32ng m

response 6253

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	309.69
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK

8/6/08/08

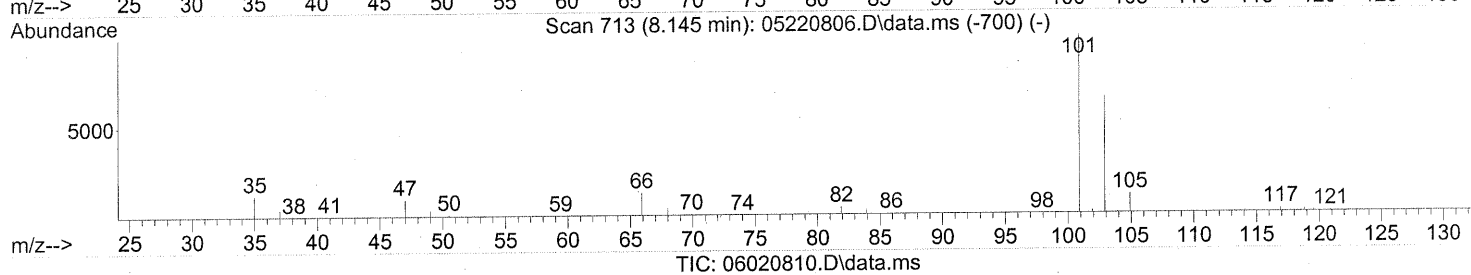
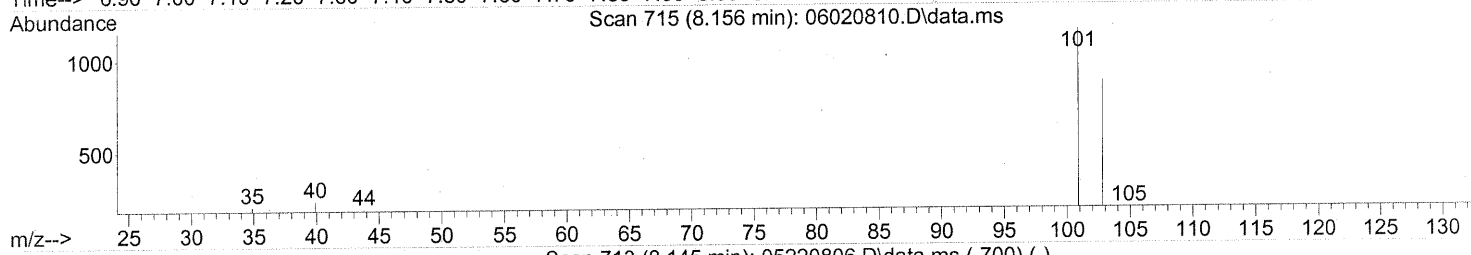
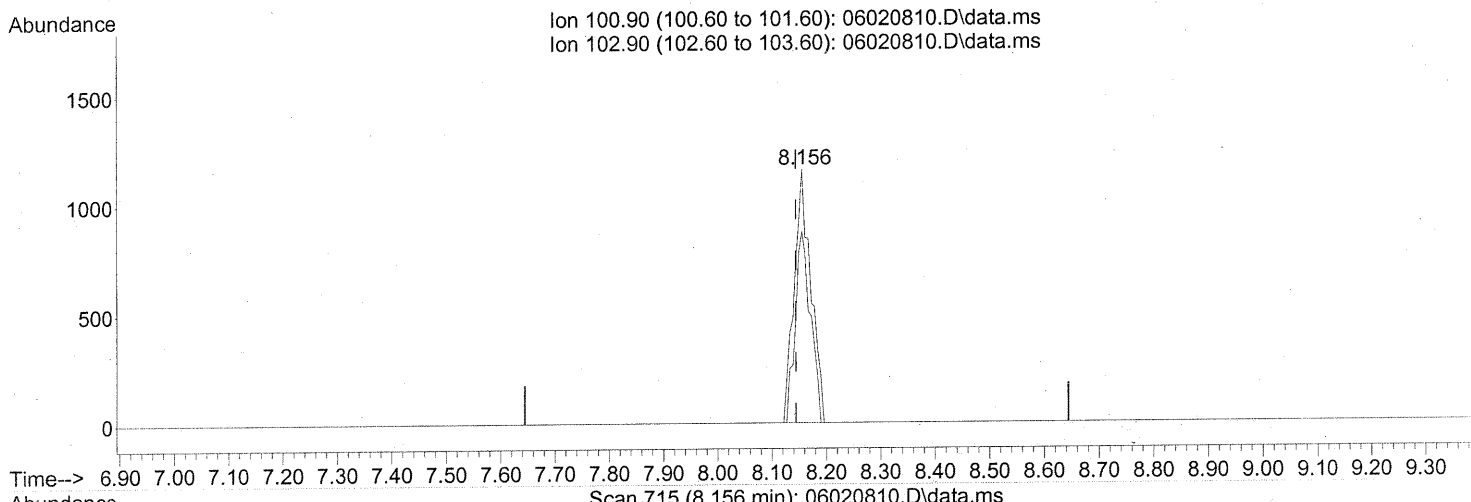
6/9/08



Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.156min (+0.011) 0.05ng

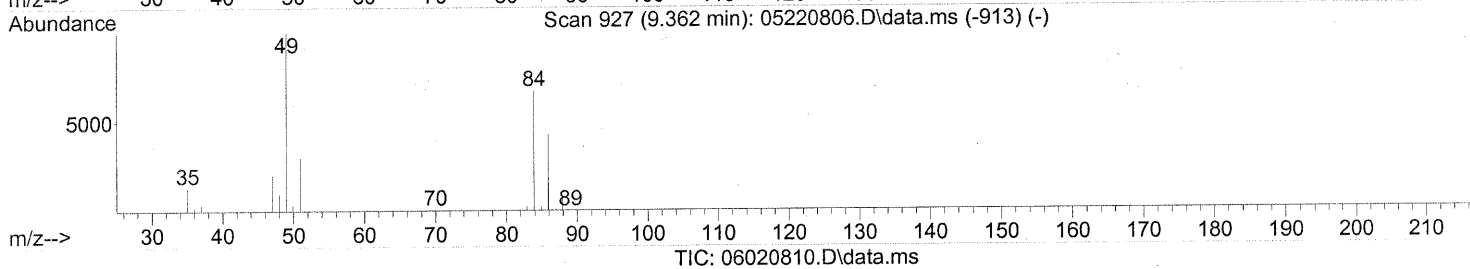
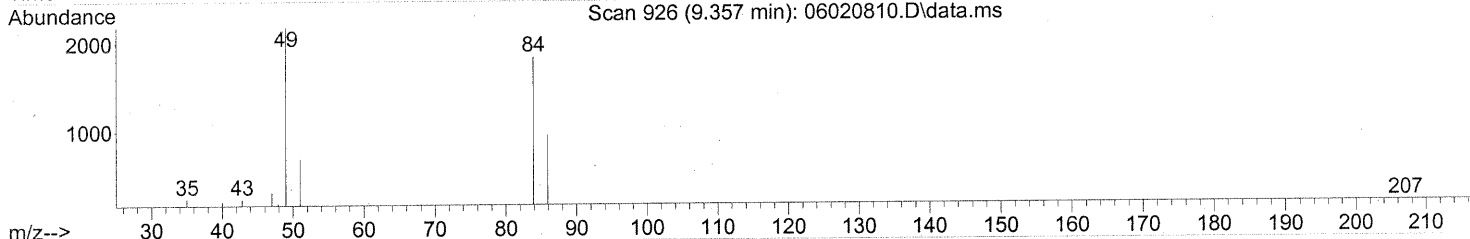
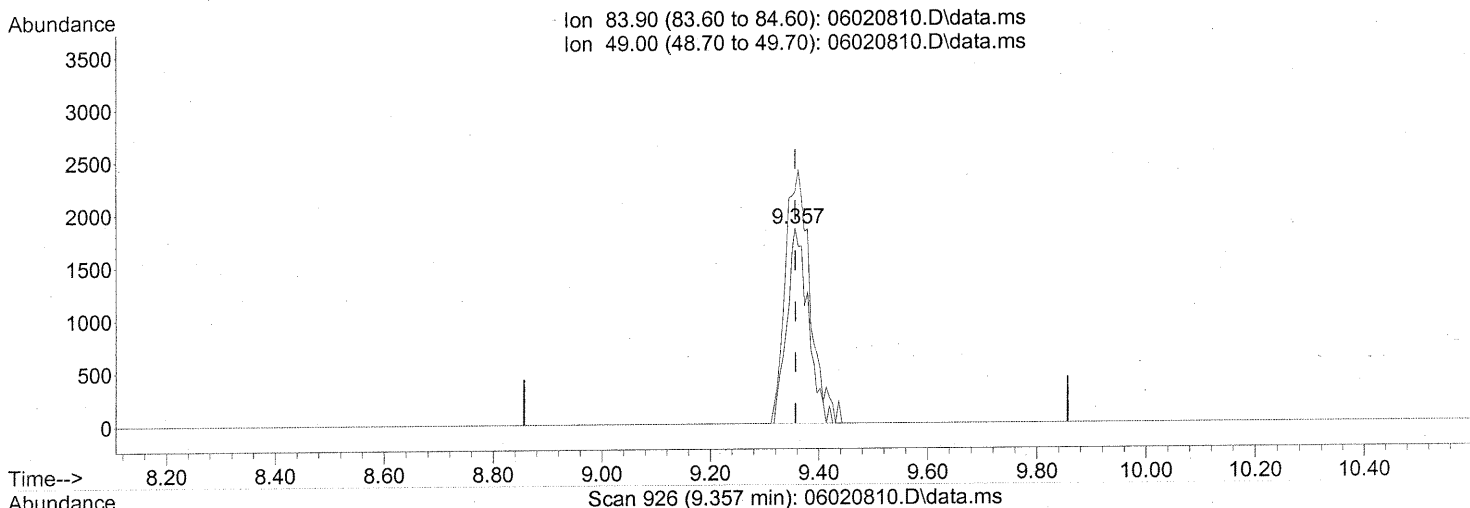
response 2458

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	68.92
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.23ng

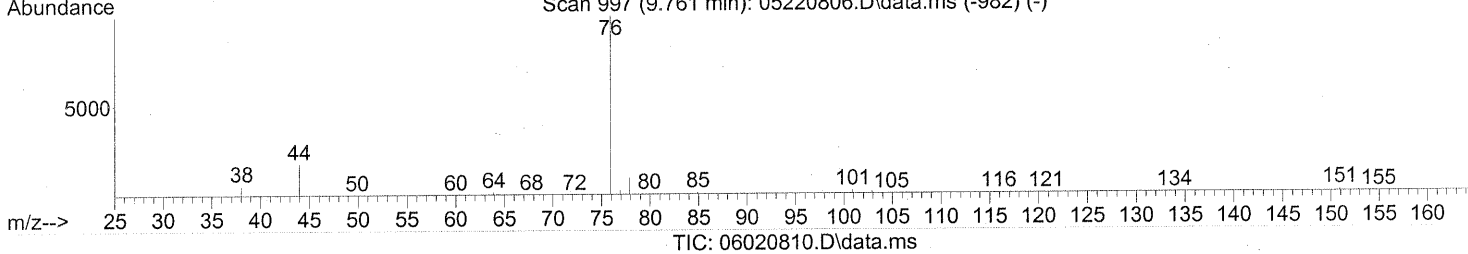
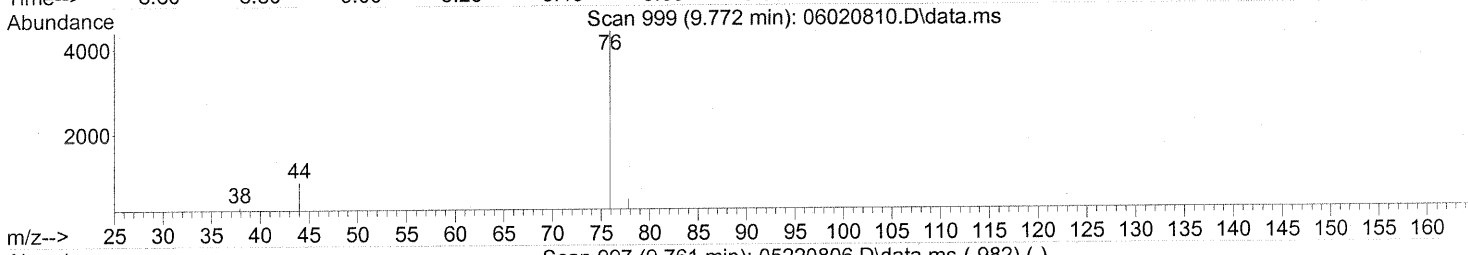
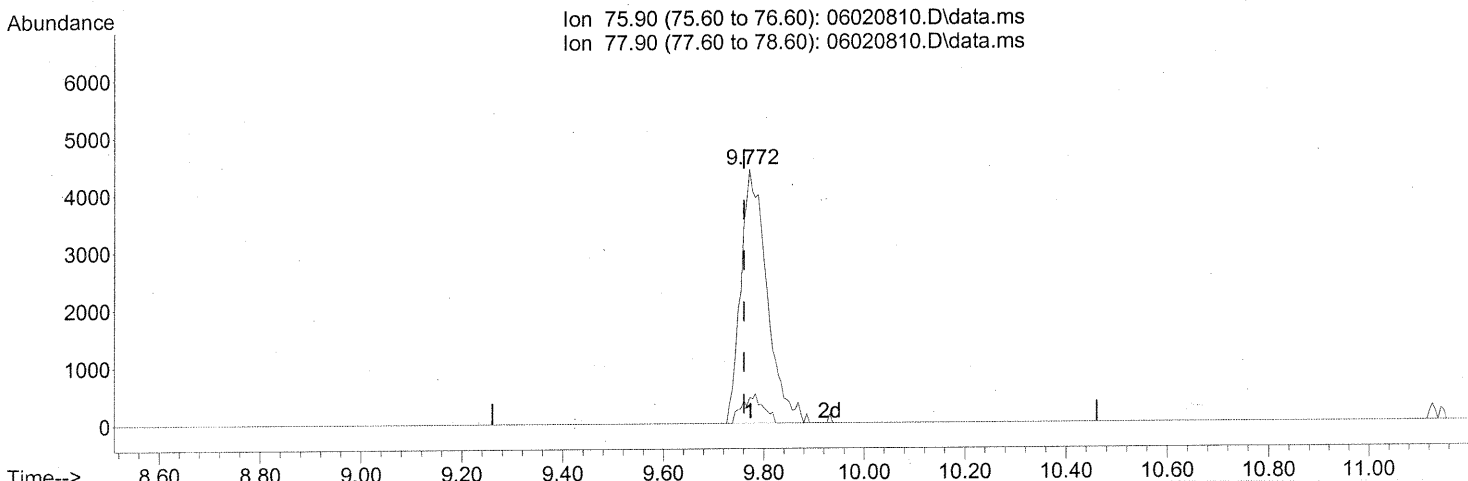
response 5029

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	150.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.772min (+0.011) 0.19ng

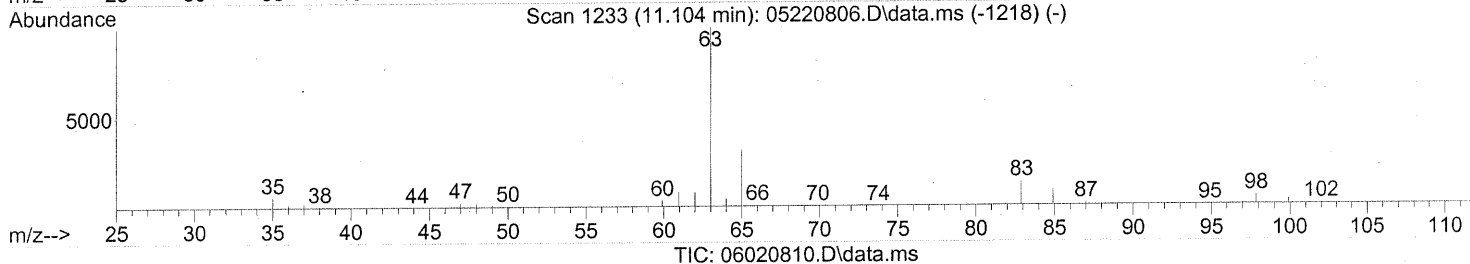
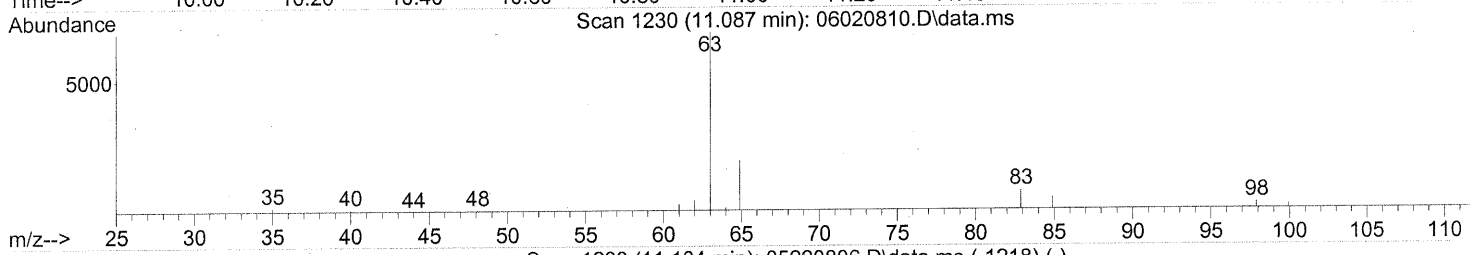
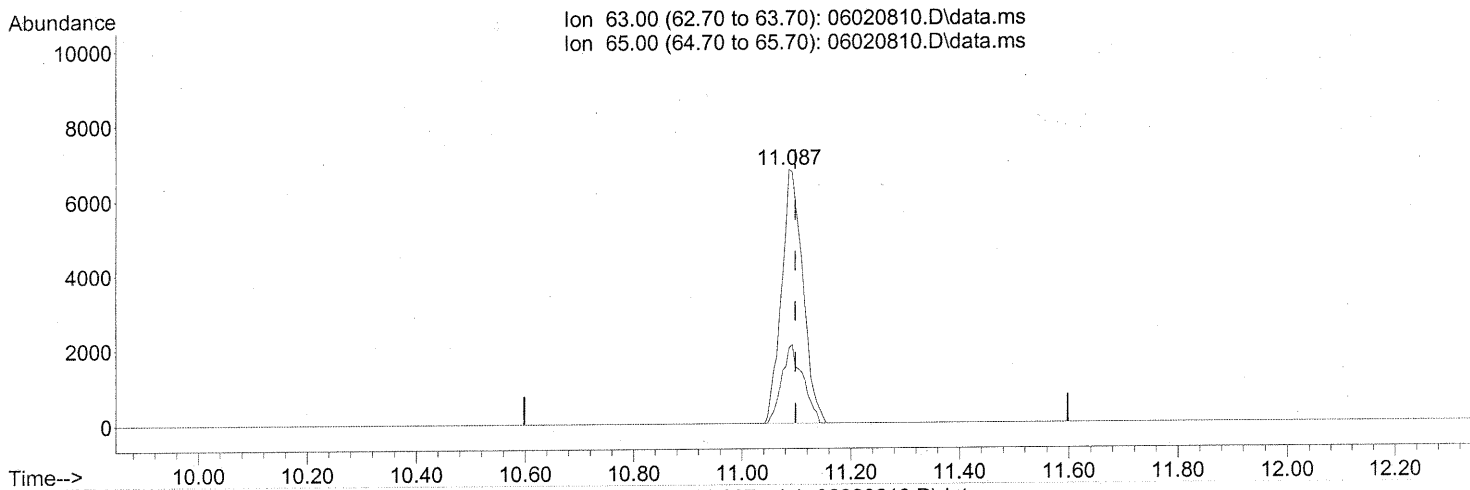
response 15843

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.06
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.087min (-0.011) 0.49ng

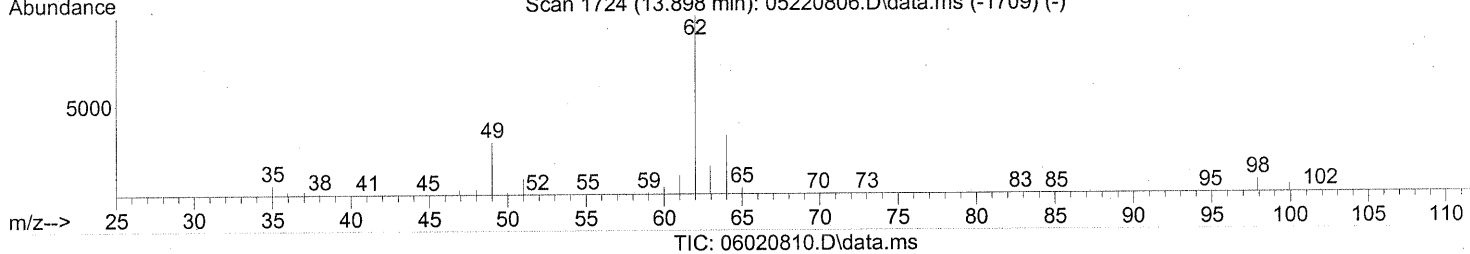
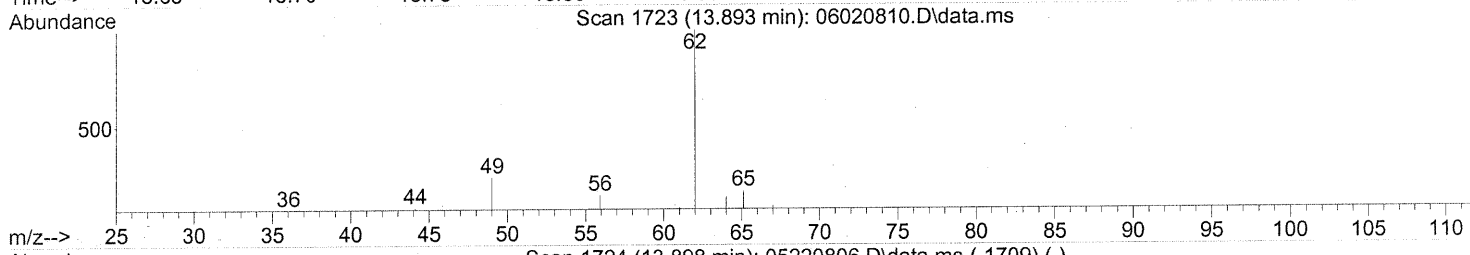
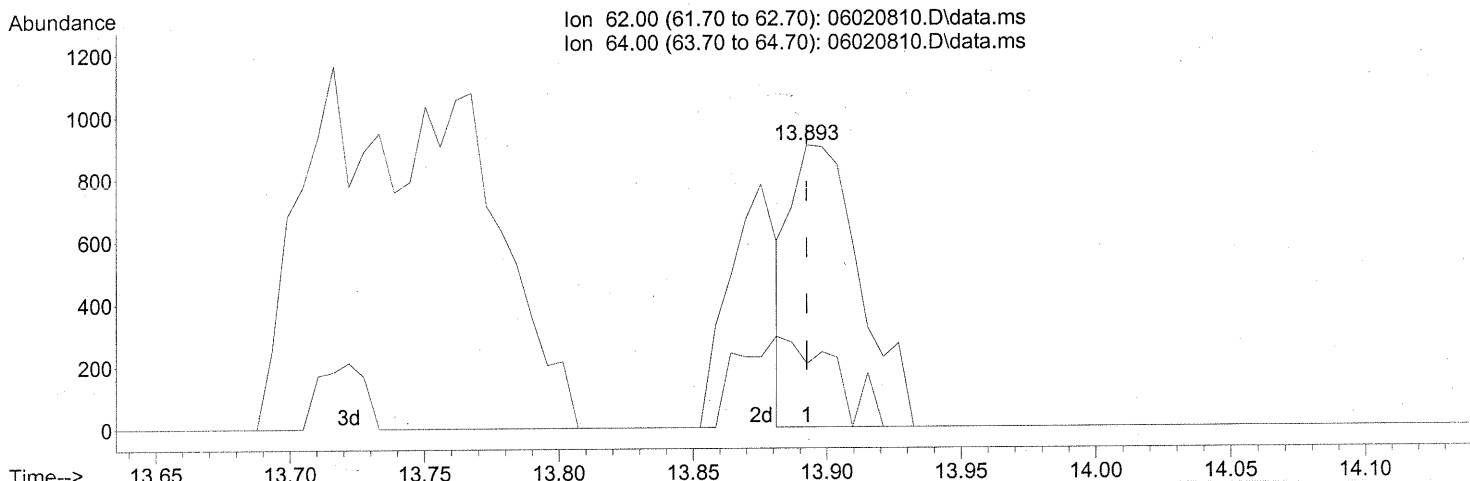
response 18432

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	30.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.893min (-0.000) 0.05ng

response 1622

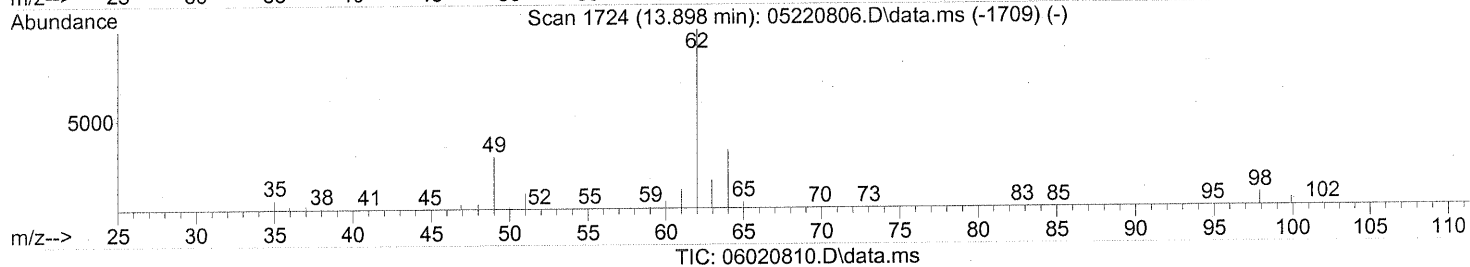
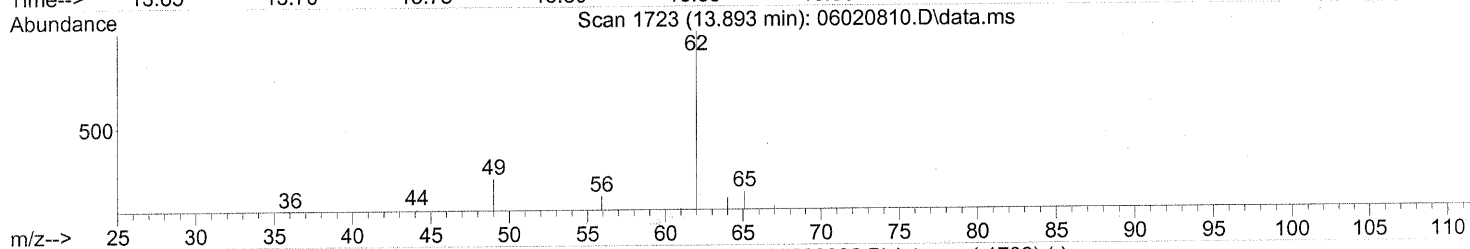
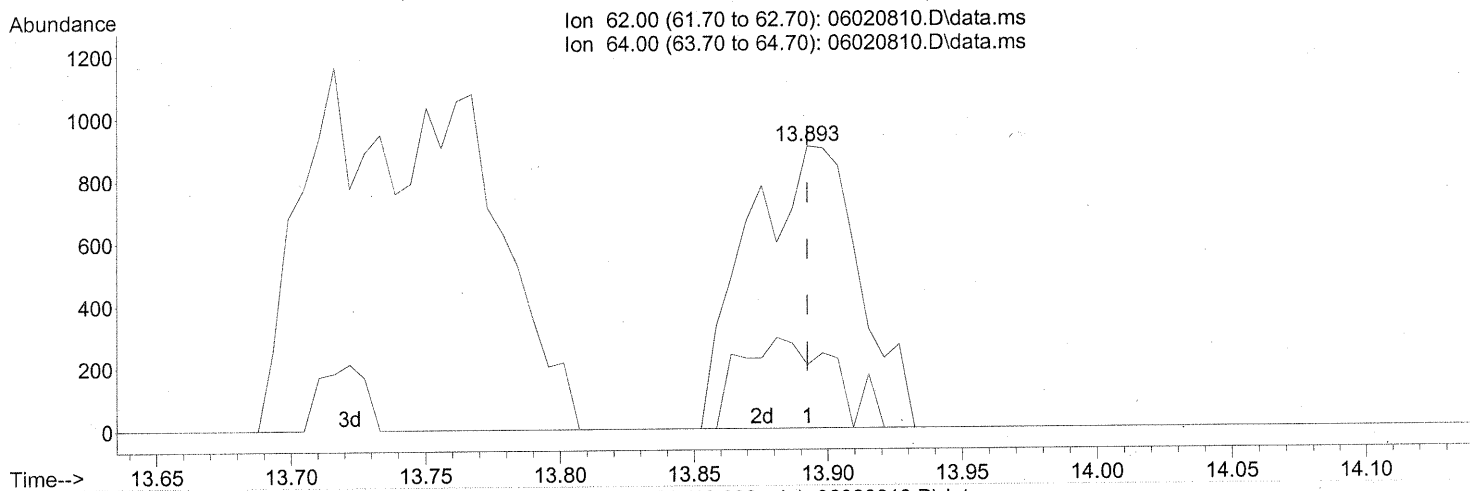
Ion	Exp%	Act%
62.00	100	100
64.00	30.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:29:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(36) 1,2-Dichloroethane (T)

13.893min (-0.000) 0.08ng m

response 2596

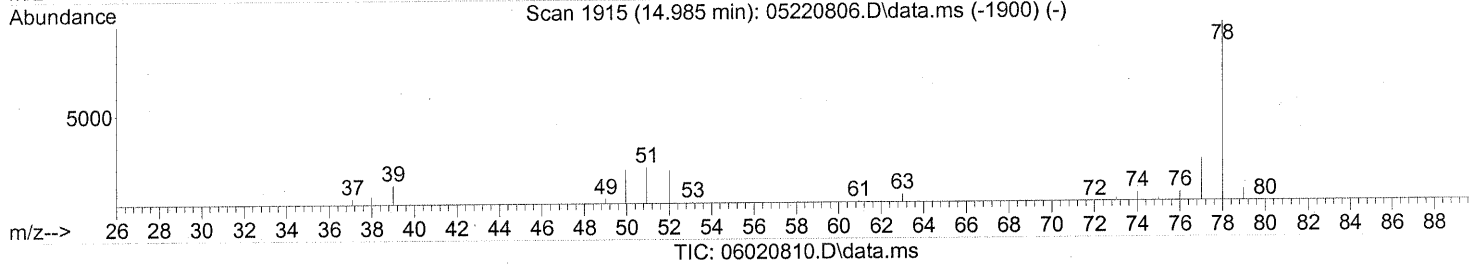
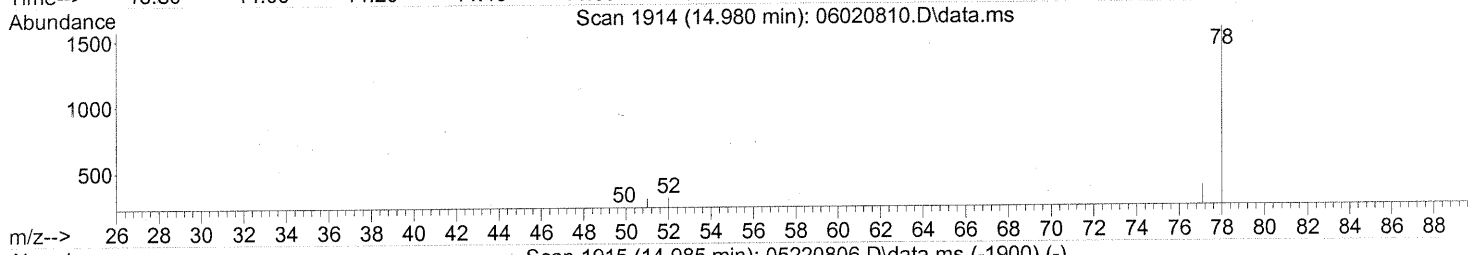
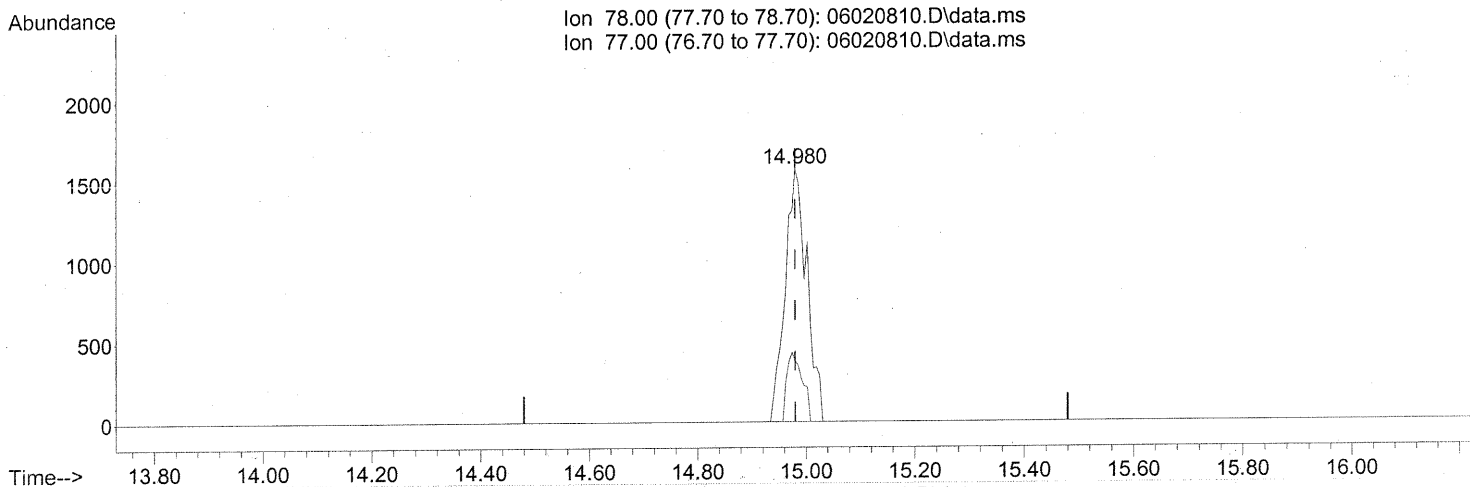
Ion	Exp%	Act%
62.00	100	100
64.00	30.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK  
 P06/08/08  
 C-6/9/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020810.D  
Acq On : 2 Jun 2008 3:47 pm  
Operator : RTB  
Sample : P0801548-018 (25mL)  
Misc : ENSR SG54B-05 (-4.5, 3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(41) Benzene (T)

14.980min (-0.000) 0.05ng

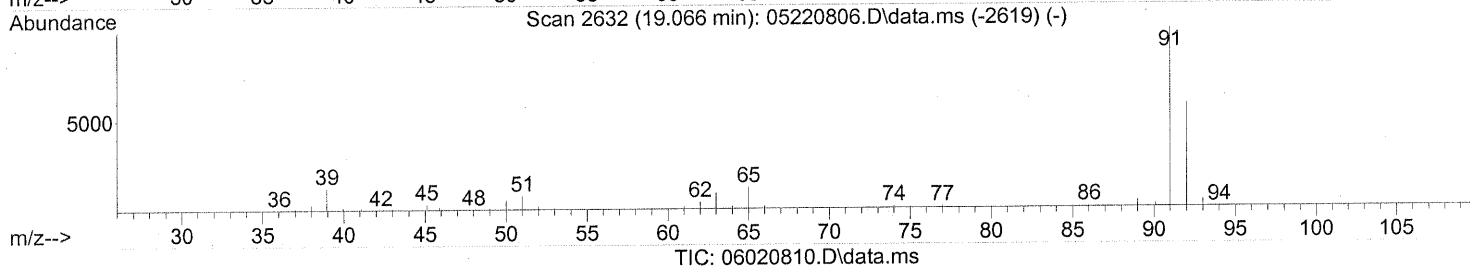
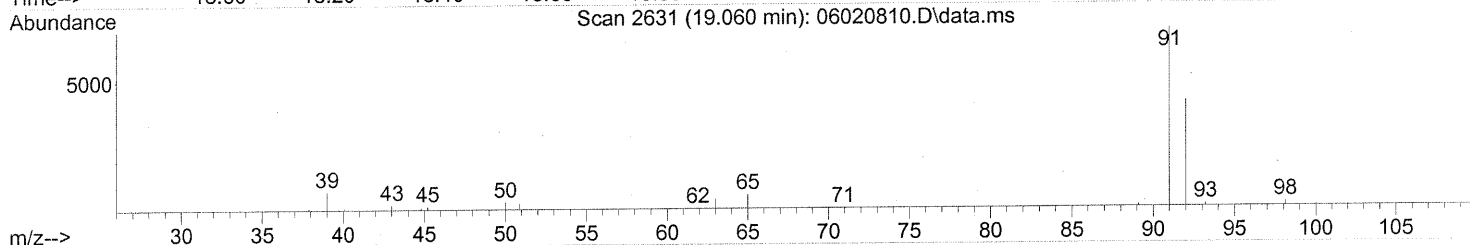
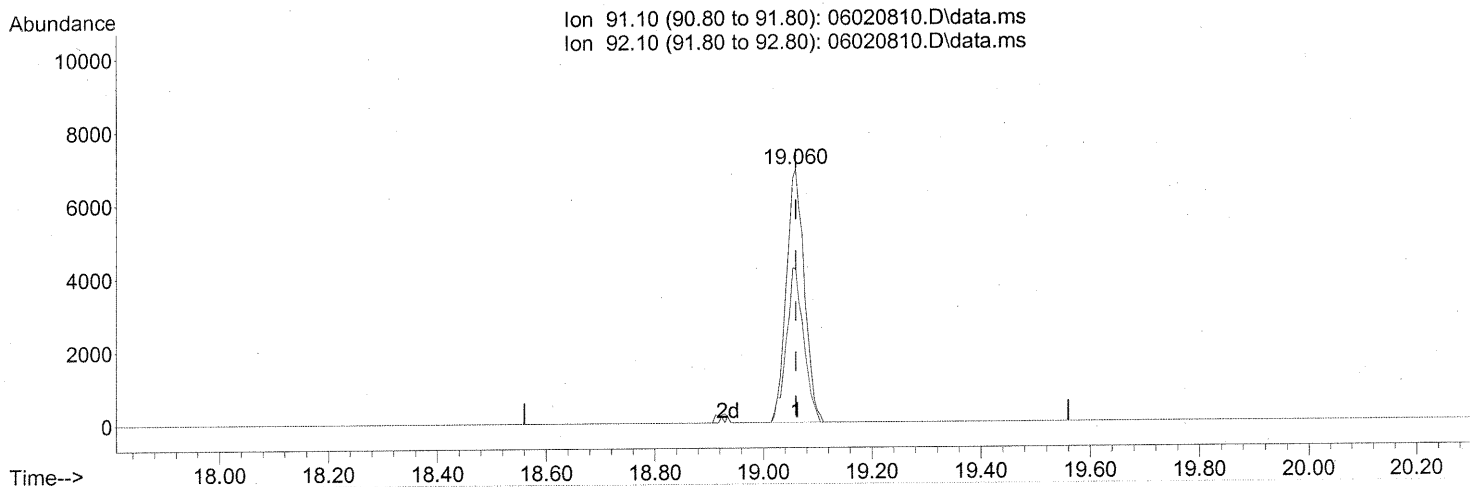
response 4365

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	19.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 0.18ng

response 15931

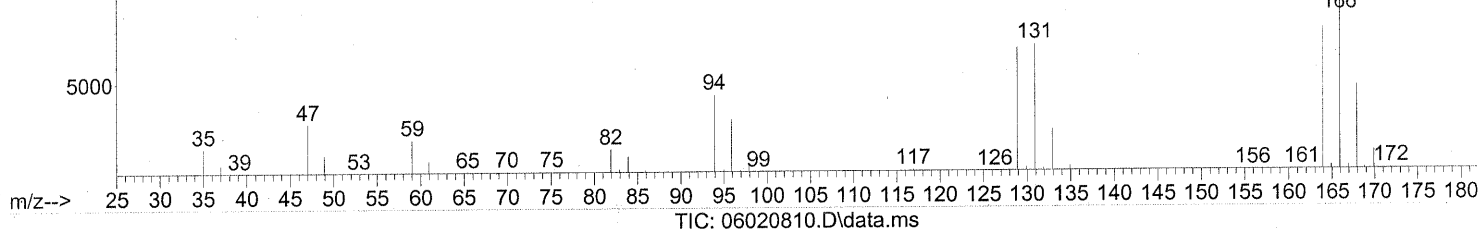
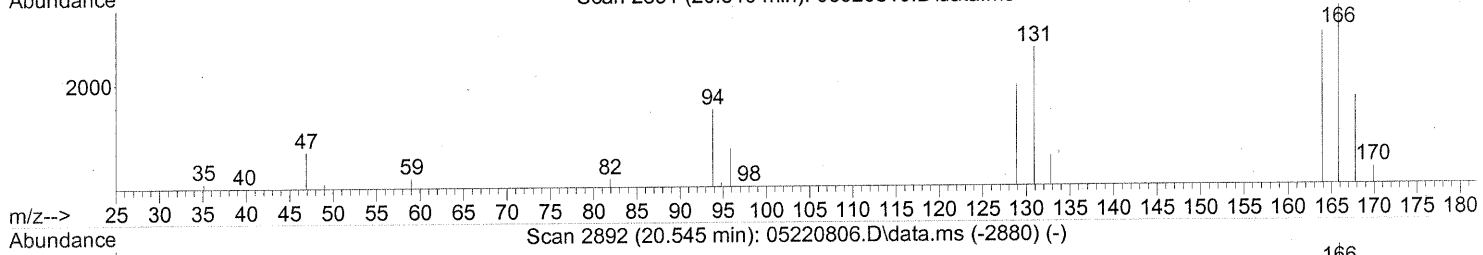
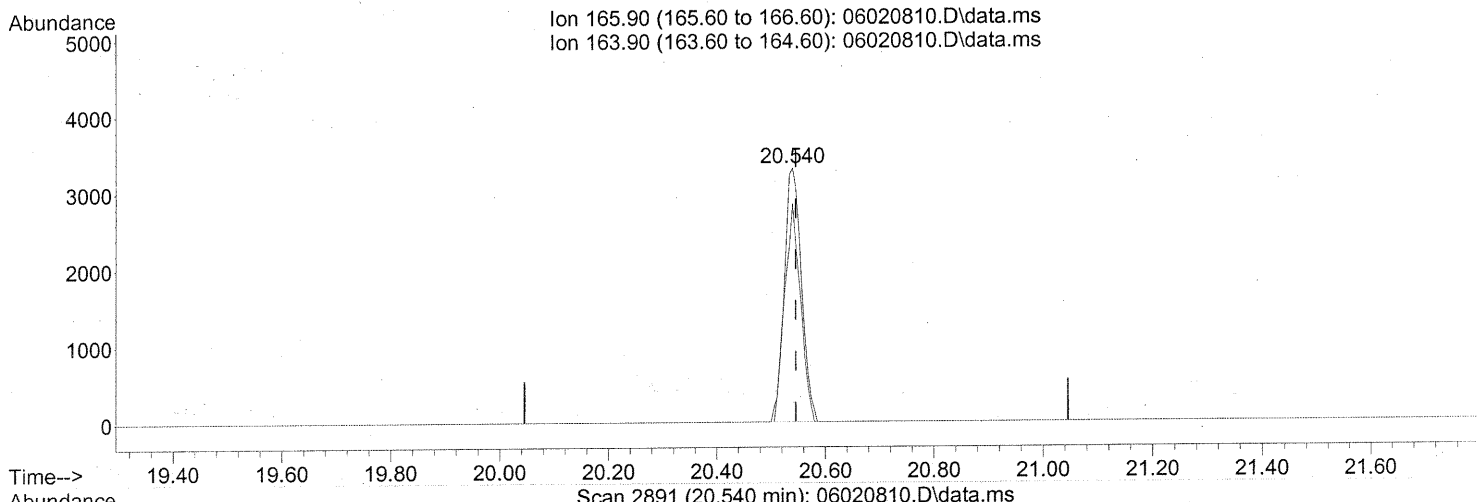
Ion	Exp%	Act%
91.10	100	100
92.10	59.80	58.70
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 16:32:42 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

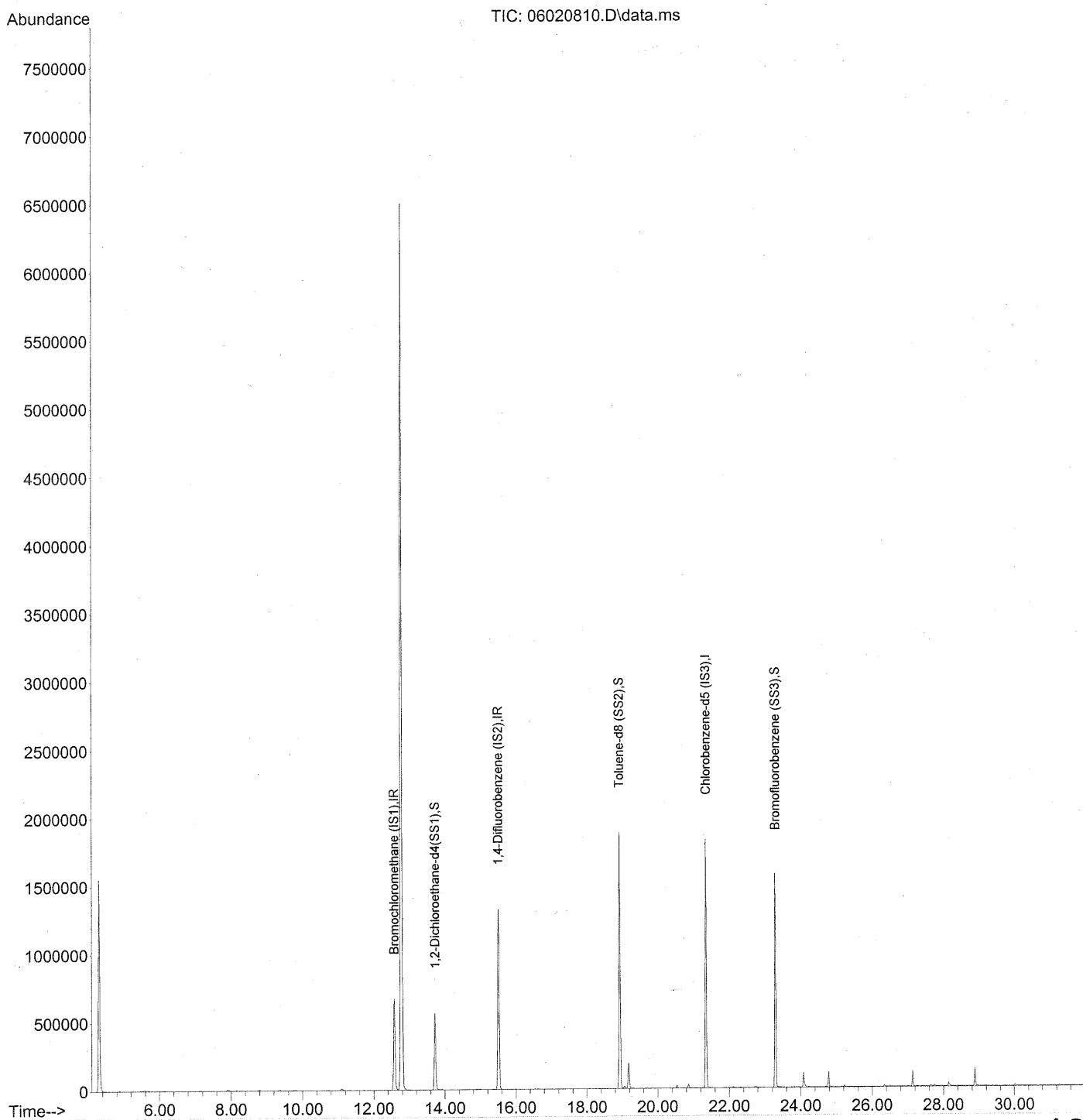
20.540min (-0.006) 0.28ng

response 7239

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020810.D  
Acq On : 2 Jun 2008 3:47 pm  
Operator : RTB  
Sample : P0801548-018 (25mL)  
Misc : ENSR SG54B-05 (-4.5, 3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:56 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020810.D  
 Acq On : 2 Jun 2008 3:47 pm  
 Operator : RTB  
 Sample : P0801548-018 (25mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 5 Sample Multiplier: 1

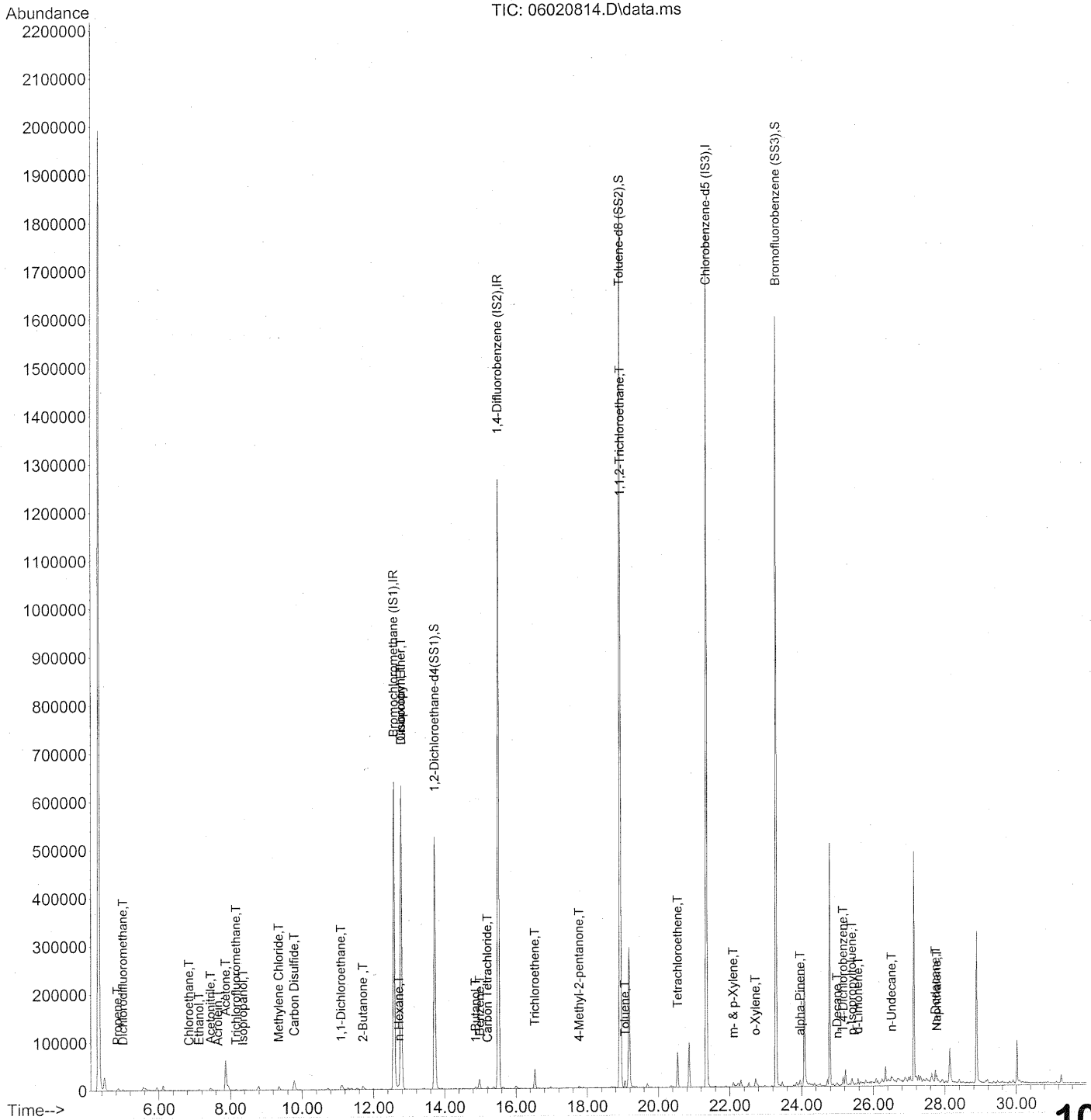
Quant Time: Jun 08 17:22:56 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	361649	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1563505	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	721320	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	575205	22.954	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.80%	✓
5) Toluene-d8 (SS2)	18.92	98	1597248	24.656	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.64%	✓
6) Bromofluorobenzene (SS3)	23.29	174	621586	23.596	ng	0.00
Spiked Amount	25.000		Recovery	=	94.40%	✓
Target Compounds						
7) tert-Butylbenzene	24.87	119	122		N.D.✓	Qvalue
8) n-Butylbenzene	25.91	91	731		N.D.✓	

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

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020814.D  
 Acq On : 2 Jun 2008 7:00 pm  
 Operator : RTB  
 Sample : P0801548-018 DIL (2mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:23:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020814.D  
 Acq On : 2 Jun 2008 7:00 pm  
 Operator : RTB  
 Sample : P0801548-018 DIL (2mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:23:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	348430	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1504472	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	703495	25.000	ng	0.00

## System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	549328	22.753	ng	-0.01
Spiked Amount	25.000		Recovery	=	91.00%	✓
57) Toluene-d8 (SS2)	18.92	98	1549188	24.520	ng	0.00
Spiked Amount	25.000		Recovery	=	98.08%	✓
73) Bromofluorobenzene (SS3)	23.29	174	619906	24.128	ng	0.00
Spiked Amount	25.000		Recovery	=	96.52%	✓

## Target Compounds

						Qvalue
2) Propene	4.84	42	1802	0.065	ng	# 68
3) Dichlorodifluoromethane	4.99	85	2909	0.057	ng	# 89
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	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	6.85	64	1679	0.108	ng	94
10) Ethanol	7.13	45	4181	0.228	ng	95
11) Acetonitrile	7.45	41	8883	0.168	ng	73
12) Acrolein	7.66	56	1236	0.094	ng	90
13) Acetone	7.87	58	34191	1.823	ng	# 67
14) Trichlorofluoromethane	8.16	101	2488	0.057	ng	100
15) Isopropanol	8.36	45	3048	0.051	ng	94
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	9.17	96	420	N.D.		
18) tert-Butanol	9.30	59	594	N.D.		
19) Methylene Chloride	9.35	84	4421	0.211	ng	# 77
20) Allyl Chloride	9.46	41	52	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	50970	0.641	ng	100
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	11.09	63	10463	0.288	ng	93
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	11.33	86	56	N.D.		
27) 2-Butanone	11.70	72	3437	0.251	ng	# 86
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	12.78	87	69754	4.158	ng	# 1
30) Ethyl Acetate	12.71	61	302	N.D.		
31) n-Hexane	12.71	57	2191	0.059	ng	78

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*Rob/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020814.D  
 Acq On : 2 Jun 2008 7:00 pm  
 Operator : RTB  
 Sample : P0801548-018 DIL (2mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:23:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.77	83	684386	21.540	ng	99
34) Tetrahydrofuran	13.39	72	135	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.88	62	311	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	14.87	56	5021	0.243	ng	86
41) Benzene	14.99	78	24972	0.317	ng	99
42) Carbon Tetrachloride	15.20	117	3498	0.115	ng	91
43) Cyclohexane	15.40	84	326	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	16.46	83	307	N.D.		
47) Trichloroethene	16.53	130	17502	0.724	ng	99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	16.62	57	1011	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.98	71	644	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	17.77	58	1553	0.074	ng	85
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	18.94	97	135035	6.937	ng	# 8
58) Toluene	19.06	91	13711	0.160	ng	97
59) 2-Hexanone	19.38	43	2741	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.20	43	255	N.D.		
63) n-Octane	20.36	57	669	N.D.		
64) Tetrachloroethene	20.54	166	28310	1.114	ng	98
65) Chlorobenzene	21.40	112	1557	N.D.		
66) Ethylbenzene	21.88	91	3647	N.D.		
67) m- & p-Xylene	22.09	91	10355	0.157	ng	94
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	22.58	104	584	N.D.		
70) o-Xylene	22.71	91	4358	0.061	ng	90
71) n-Nonane	22.98	43	1930	N.D.		
72) 1,1,2,2-Tetrachloroethane	22.73	83	52	N.D.		
74) Cumene	23.46	105	545	N.D.		
75) alpha-Pinene	23.95	93	5946	0.121	ng	98
76) n-Propylbenzene	24.10	91	1360	N.D.		
77) 3-Ethyltoluene	24.22	105	2448	N.D.		
78) 4-Ethyltoluene	24.28	105	1282	N.D.		
79) 1,3,5-Trimethylbenzene	24.36	105	1817	N.D.		

*Paulo*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020814.D  
 Acq On : 2 Jun 2008 7:00 pm  
 Operator : RTB  
 Sample : P0801548-018 DIL (2mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:23:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	66	N.D.		
81) 2-Ethyltoluene	24.61	105	946	N.D.		
82) 1,2,4-Trimethylbenzene	24.88	105	2849	N.D.		
83) n-Decane	24.98	57	2665	0.056	ng	97
84) Benzyl Chloride	25.04	91	323	N.D.		
85) 1,3-Dichlorobenzene	25.08	146	54	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	7081	0.135	ng	99
87) sec-Butylbenzene	25.21	105	58	N.D.		
88) p-Isopropyltoluene	25.39	119	4924	0.054	ng	95
89) 1,2,3-Trimethylbenzene	25.40	105	2639	N.D.		
90) 1,2-Dichlorobenzene	25.57	146	171	N.D.		
91) d-Limonene	25.57	68	2935	0.085	ng	94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.50	57	5202	0.105	ng	# 43
94) 1,2,4-Trichlorobenzene	27.64	180	374	N.D.		
95) Naphthalene	27.78	128	9647	0.085	ng	99
96) n-Dodecane	27.73	57	9822	0.198	ng	92
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

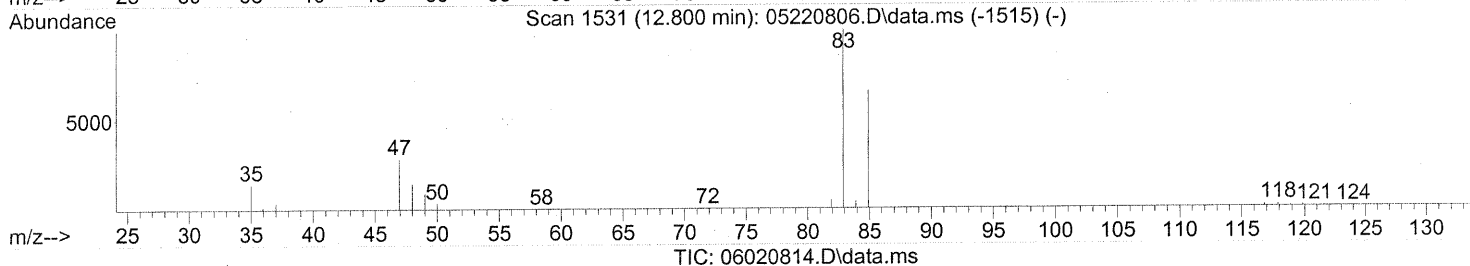
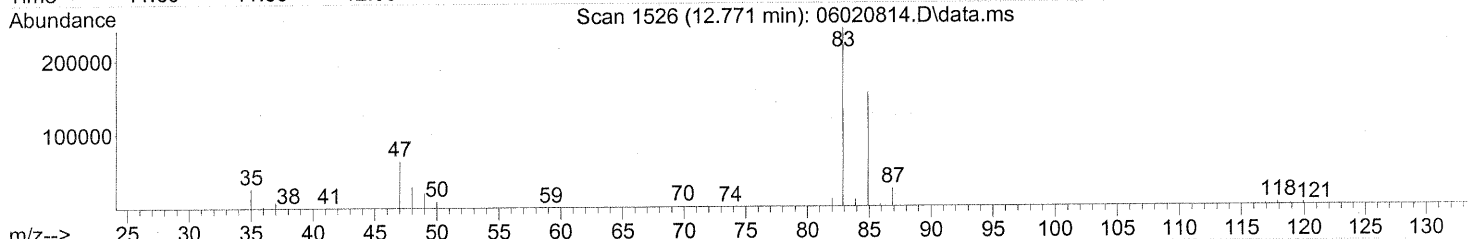
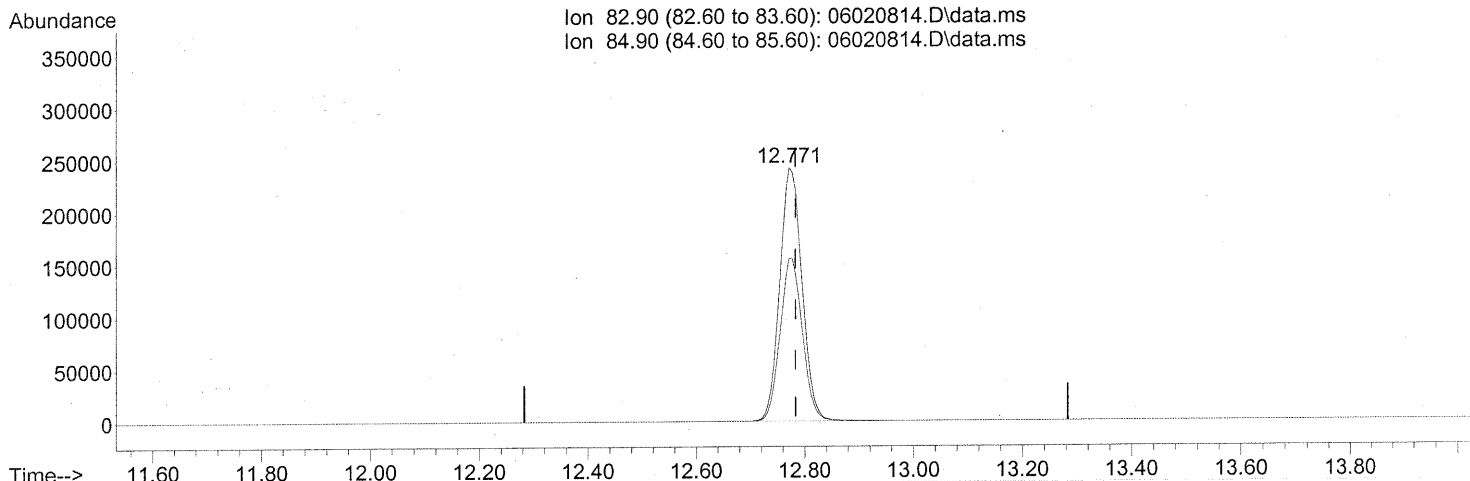
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*Handwritten signature*  
 6/3/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020814.D  
 Acq On : 2 Jun 2008 7:00 pm  
 Operator : RTB  
 Sample : P0801548-018 DIL (2mL)  
 Misc : ENSR SG54B-05 (-4.5, 3.5)  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 10:23:15 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.771min (-0.011) 21.54ng

response 684386

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.28
0.00	0.00	0.00
0.00	0.00	0.00



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-019

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00660

**Date Collected:** 5/22/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 6/3/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	1.9	1.1	0.11	0.39	0.22	0.022	
74-87-3	Chloromethane	ND	0.22	0.11	ND	0.11	0.053	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	1.1	0.11	ND	0.16	0.016	
75-01-4	Vinyl Chloride	ND	0.22	0.11	ND	0.085	0.042	
74-83-9	Bromomethane	ND	0.22	0.11	ND	0.056	0.028	
75-00-3	Chloroethane	0.14	0.22	0.11	0.053	0.082	0.041	J
64-17-5	Ethanol	4.9	11	0.11	2.6	5.8	0.058	J
67-64-1	Acetone	12	11	0.16	5.0	4.6	0.067	B
75-69-4	Trichlorofluoromethane	1.1	0.22	0.11	0.19	0.039	0.019	
107-13-1	Acrylonitrile	ND	1.1	0.15	ND	0.50	0.070	
75-35-4	1,1-Dichloroethene	0.46	0.22	0.11	0.12	0.055	0.027	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	0.41	1.1	0.16	0.14	0.36	0.053	J
75-09-2	Methylene Chloride	0.51	1.1	0.11	0.15	0.31	0.031	J
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.22	0.11	ND	0.069	0.035	
76-13-1	Trichlorotrifluoroethane	0.48	0.22	0.12	0.062	0.028	0.016	
75-15-0	Carbon Disulfide	2.4	1.1	0.26	0.76	0.35	0.084	
156-60-5	trans-1,2-Dichloroethene	ND	0.22	0.11	ND	0.055	0.027	
75-34-3	1,1-Dichloroethane	0.15	0.22	0.11	0.038	0.054	0.027	J
1634-04-4	Methyl tert-Butyl Ether	0.13	0.22	0.11	0.037	0.060	0.030	J
108-05-4	Vinyl Acetate	2.6	11	0.35	0.75	3.1	0.099	J, M
78-93-3	2-Butanone (MEK)	4.7	1.1	0.11	1.6	0.37	0.037	
156-59-2	cis-1,2-Dichloroethene	ND	0.22	0.11	ND	0.055	0.027	
108-20-3	Diisopropyl Ether	ND	1.1	0.13	ND	0.26	0.031	
67-66-3	Chloroform	230	0.22	0.13	47	0.044	0.026	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

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

Verified By: CA      Date: 6/10/08      **1089**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-019

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00660

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	1.1	0.11	ND	0.26	0.026	
107-06-2	1,2-Dichloroethane	ND	0.22	0.11	ND	0.054	0.027	
71-55-6	1,1,1-Trichloroethane	ND	0.22	0.11	ND	0.040	0.020	
71-43-2	<b>Benzene</b>	<b>3.5</b>	0.22	0.11	<b>1.1</b>	0.068	0.034	
56-23-5	<b>Carbon Tetrachloride</b>	<b>3.4</b>	0.22	0.11	<b>0.54</b>	0.035	0.017	
994-05-8	tert-Amyl Methyl Ether	ND	1.1	0.11	ND	0.26	0.026	
78-87-5	<b>1,2-Dichloropropane</b>	<b>0.36</b>	0.22	0.11	<b>0.078</b>	0.047	0.023	
75-27-4	<b>Bromodichloromethane</b>	<b>0.61</b>	0.22	0.11	<b>0.092</b>	0.032	0.016	
79-01-6	<b>Trichloroethene</b>	<b>1.7</b>	0.22	0.11	<b>0.31</b>	0.040	0.020	
123-91-1	<b>1,4-Dioxane</b>	<b>0.21</b>	1.1	0.13	<b>0.057</b>	0.30	0.037	<b>J</b>
80-62-6	Methyl Methacrylate	ND	1.1	0.16	ND	0.27	0.040	
142-82-5	<b>n-Heptane</b>	<b>0.30</b>	1.1	0.14	<b>0.073</b>	0.26	0.034	<b>J</b>
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.11	ND	0.24	0.025	
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>0.64</b>	1.1	0.12	<b>0.16</b>	0.26	0.030	<b>J</b>
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	ND	0.24	0.030	
79-00-5	<b>1,1,2-Trichloroethane</b>	<b>0.23</b>	0.22	0.11	<b>0.041</b>	0.040	0.020	
108-88-3	<b>Toluene</b>	<b>16</b>	1.1	0.11	<b>4.2</b>	0.29	0.029	
591-78-6	<b>2-Hexanone</b>	<b>0.62</b>	1.1	0.16	<b>0.15</b>	0.26	0.040	<b>J</b>
124-48-1	Dibromochloromethane	ND	0.22	0.15	ND	0.025	0.017	
106-93-4	1,2-Dibromoethane	ND	0.22	0.12	ND	0.028	0.015	
111-65-9	<b>n-Octane</b>	<b>0.68</b>	1.1	0.11	<b>0.15</b>	0.23	0.023	<b>J</b>
127-18-4	<b>Tetrachloroethene</b>	<b>16</b>	0.22	0.11	<b>2.3</b>	0.032	0.016	
108-90-7	<b>Chlorobenzene</b>	<b>0.26</b>	0.22	0.11	<b>0.056</b>	0.047	0.024	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/10/08

**1090**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG87B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-019

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister  
 Test Notes:  
 Container ID: SC00660

Date Collected: 5/22/08  
 Date Received: 5/23/08  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -6.3      Final Pressure (psig): 3.5

Canister Dilution Factor: 2.17

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	2.7	1.1	0.13	0.62	0.25	0.031	
179601-23-1	m,p-Xylenes	13	1.1	0.28	2.9	0.25	0.065	
75-25-2	Bromoform	ND	1.1	0.16	ND	0.10	0.016	
100-42-5	Styrene	0.21	1.1	0.16	0.049	0.25	0.039	J
95-47-6	o-Xylene	4.2	1.1	0.14	0.96	0.25	0.031	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.22	0.14	ND	0.032	0.020	
98-82-8	Cumene	0.15	1.1	0.12	0.031	0.22	0.025	J
103-65-1	n-Propylbenzene	0.52	1.1	0.11	0.11	0.22	0.023	J
622-96-8	4-Ethyltoluene	0.77	1.1	0.12	0.16	0.22	0.025	J
108-67-8	1,3,5-Trimethylbenzene	1.1	1.1	0.13	0.22	0.22	0.026	J
98-83-9	alpha-Methylstyrene	ND	1.1	0.16	ND	0.22	0.033	
95-63-6	1,2,4-Trimethylbenzene	2.6	1.1	0.15	0.52	0.22	0.030	
100-44-7	Benzyl Chloride	ND	0.22	0.19	ND	0.042	0.036	
541-73-1	1,3-Dichlorobenzene	ND	0.22	0.13	ND	0.036	0.022	
106-46-7	1,4-Dichlorobenzene	4.7	0.22	0.12	0.78	0.036	0.020	
135-98-8	sec-Butylbenzene	ND	1.1	0.13	ND	0.20	0.023	
99-87-6	4-Isopropyltoluene (p-Cymene)	0.29	1.1	0.14	0.053	0.20	0.026	J
95-50-1	1,2-Dichlorobenzene	ND	0.22	0.14	ND	0.036	0.024	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.1	0.16	ND	0.11	0.017	
120-82-1	1,2,4-Trichlorobenzene	ND	0.22	0.16	ND	0.029	0.022	
91-20-3	Naphthalene	0.87	0.43	0.16	0.17	0.083	0.031	
87-68-3	Hexachlorobutadiene	0.85	0.22	0.20	0.080	0.020	0.018	
98-06-6	tert-Butylbenzene	ND	0.43	0.11	ND	0.079	0.020	
104-51-8	n-Butylbenzene	0.38	0.43	0.11	0.070	0.079	0.020	J

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

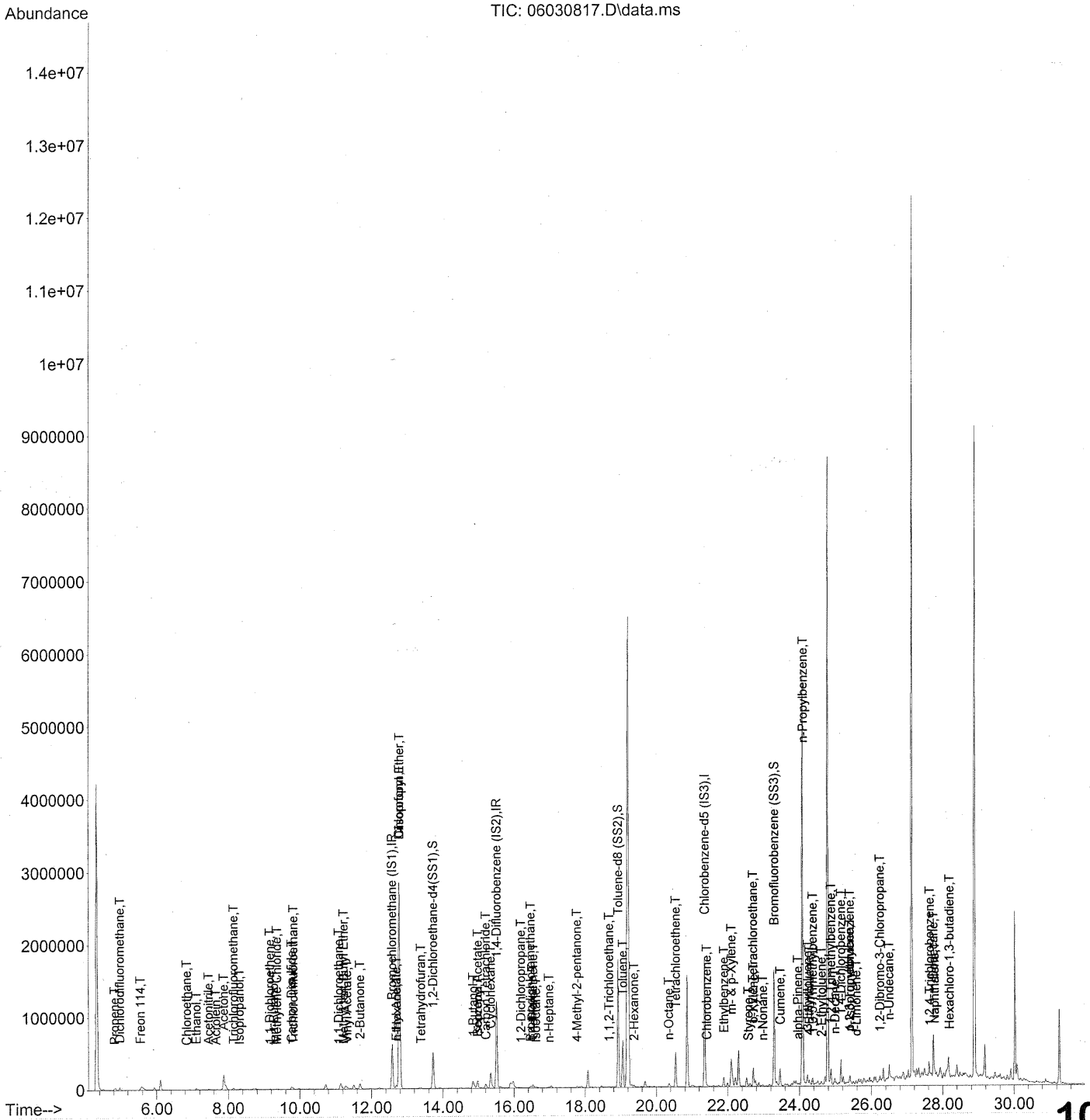
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA      Date: 6/10/08      **1091**

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
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 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	331666	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1461583	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	696423	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	519211	22.593	ng	0.00
Spiked Amount				25.000		
				Recovery =	90.36%	✓
57) Toluene-d8 (SS2)	18.93	98	1501473	24.006	ng	0.00
Spiked Amount				25.000		
				Recovery =	96.04%	✓
73) Bromofluorobenzene (SS3)	23.29	174	631005	24.809	ng	0.00
Spiked Amount				25.000		
				Recovery =	99.24%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.82	42	12195	0.466	ng	# 1
3) Dichlorodifluoromethane	4.97	85	42954	0.890	ng	99
4) Chloromethane	5.32	50	267	N.D.	✓	
5) Freon 114	5.54	135	970	<del>0.041</del>	ng	# 54
6) Vinyl Chloride	0.00	62	0	N.D.	✓	
7) 1,3-Butadiene	6.03	54	857	N.D.		
8) Bromomethane	6.51	94	64	N.D.	✓	
9) Chloroethane	6.84	64	961	0.065	ng	70
10) Ethanol	7.10	45	39776m	2.281	ng	
11) Acetonitrile	7.45	41	19582	0.388	ng	91
12) Acrolein	7.65	56	9955	0.799	ng	89
13) Acetone	7.87	58	97215	5.445	ng	# 40
14) Trichlorofluoromethane	8.14	101	20391	0.492	ng	95
15) Isopropanol	8.32	45	23365	0.410	ng	97
16) Acrylonitrile	8.63	53	55	N.D.	✓	
17) 1,1-Dichloroethene	9.16	96	3845	0.211	ng	# 76
18) tert-Butanol	9.27	59	9140m	0.189	ng	
19) Methylene Chloride	9.36	84	4736	0.237	ng	# 62
20) Allyl Chloride	9.54	41	605	N.D.	✓	
21) Trichlorotrifluoroethane	9.82	151	4126	0.219	ng	89
22) Carbon Disulfide	9.77	76	82929	1.095	ng	96
23) trans-1,2-Dichloroethene	10.72	61	843	N.D.	✓	
24) 1,1-Dichloroethane	11.09	63	2433	0.070	ng	99
25) Methyl tert-Butyl Ether	11.22	73	3539	0.061	ng	# 75
26) Vinyl Acetate	11.32	86	4006	1.214	ng	# 51
27) 2-Butanone	11.68	72	27961	2.146	ng	# 84
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓	
29) Diisopropyl Ether	12.78	87	339404	<del>21.256</del>	ng	# 1
30) Ethyl Acetate	12.69	61	9332	1.327	ng	# 69
31) n-Hexane	12.70	57	7443	0.210	ng	# 71

706/08/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
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 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	3210658	106.159	ng	100
34) Tetrahydrofuran	13.39	72	4327	0.347	ng #	74
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.89	62	151	N.D. ✓		
38) 1,1,1-Trichloroethane	14.27	97	550	N.D. ✓		
39) Isopropyl Acetate	14.99	61	810	0.065	ng #	1
40) 1-Butanol	14.85	56	104152	5.184	ng	85
41) Benzene	14.98	78	123451	1.613	ng	99
42) Carbon Tetrachloride	15.21	117	46079	1.563	ng	99
43) Cyclohexane	15.34	84	16275	0.547	ng #	1
44) tert-Amyl Methyl Ether	15.89	73	57	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	3378	0.165	ng	97
46) Bromodichloromethane	16.46	83	7316	0.283	ng	99
47) Trichloroethene	16.54	130	18101	0.771	ng	100
48) 1,4-Dioxane	16.50	88	1378	0.095	ng #	77
49) Isooctane	16.62	57	14302	0.163	ng	60
50) Methyl Methacrylate	16.70	100	276	N.D. ✓		
51) n-Heptane	16.98	71	2793	0.137	ng	95
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.77	58	5955	0.293	ng	72
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	18.67	97	1964	0.104	ng #	71
58) Toluene	19.06	91	615512	7.240	ng	97
59) 2-Hexanone	19.37	43	16634	0.284	ng	80
60) Dibromochloromethane	19.60	129	605	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	2160	N.D.		
63) n-Octane	20.35	57	5911	0.314	ng	95
64) Tetrachloroethene	20.54	166	181938	7.232	ng	99
65) Chlorobenzene	21.41	112	6765	0.119	ng	81
66) Ethylbenzene	21.89	91	121104	1.242	ng	95
67) m- & p-Xylene	22.10	91	376368	5.772	ng	92
68) Bromoform	22.21	173	435	N.D. ✓		
69) Styrene	22.57	104	5641	0.097	ng	98
70) o-Xylene	22.71	91	135161	1.920	ng	95
71) n-Nonane	22.98	43	11749	0.235	ng #	82
72) 1,1,2,2-Tetrachloroethane	22.71	83	1488	0.051	ng #	17
74) Cumene	23.46	105	6566	0.070	ng	98
75) alpha-Pinene	23.96	93	10743	0.222	ng #	46
76) n-Propylbenzene	24.10	91	28624	0.240	ng #	1
77) 3-Ethyltoluene	24.23	105	87186	0.874	ng	100
78) 4-Ethyltoluene	24.28	105	32909	0.354	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	41445	0.493	ng	98

6/8/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1758	N.D.	✓	
81) 2-Ethyltoluene	24.61	105	33799	0.334	ng	98
82) 1,2,4-Trimethylbenzene	24.88	105	101111	1.182	ng	88
83) n-Decane	24.98	57	37188	0.790	ng	80
84) Benzyl Chloride	25.04	91	1345	N.D.	✓	
85) 1,3-Dichlorobenzene	25.07	146	1354	N.D.	✓	
86) 1,4-Dichlorobenzene	25.15	146	112672	2.173	ng	99
87) sec-Butylbenzene	25.21	105	2684	N.D.	✓	
88) p-Isopropyltoluene	25.40	119	11927	0.133	ng	# 62
89) 1,2,3-Trimethylbenzene	25.40	105	36175	0.432	ng	89
90) 1,2-Dichlorobenzene	25.57	146	658	N.D.	✓	
91) d-Limonene	25.58	68	9244	0.271	ng	# 76
92) 1,2-Dibromo-3-Chloropr...	26.24	157	1241	<del>0.079</del>	ng	1
93) n-Undecane	26.50	57	96952	1.968	ng	77
94) 1,2,4-Trichlorobenzene	27.63	180	2018	<del>0.054</del>	ng	95
95) Naphthalene	27.77	128	45248	0.401	ng	93
96) n-Dodecane	27.73	57	201151	4.106	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	9731	0.393	ng	98

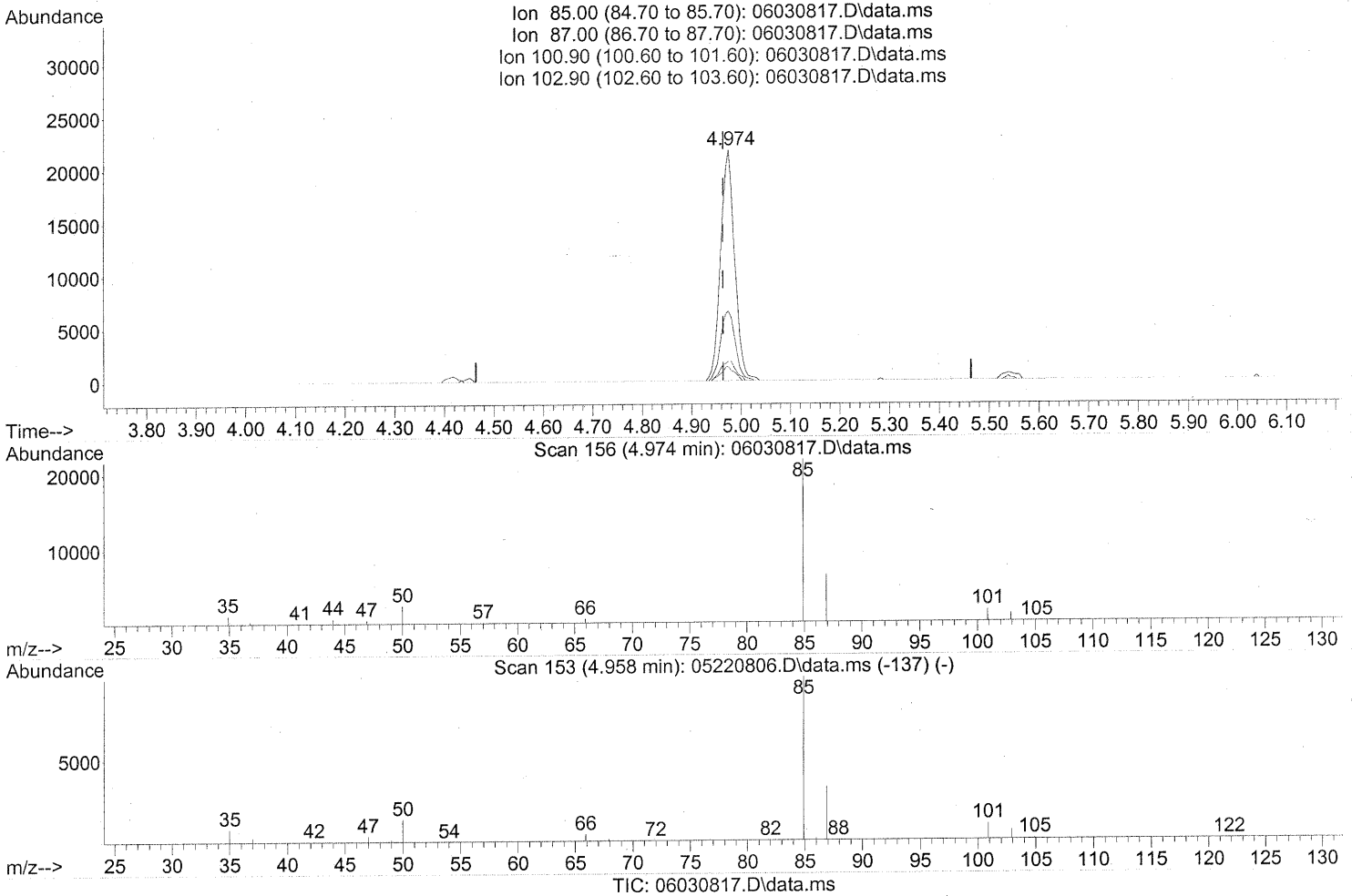
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*For 06/08/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:42:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.974min (+0.011) 0.89ng

response 42954

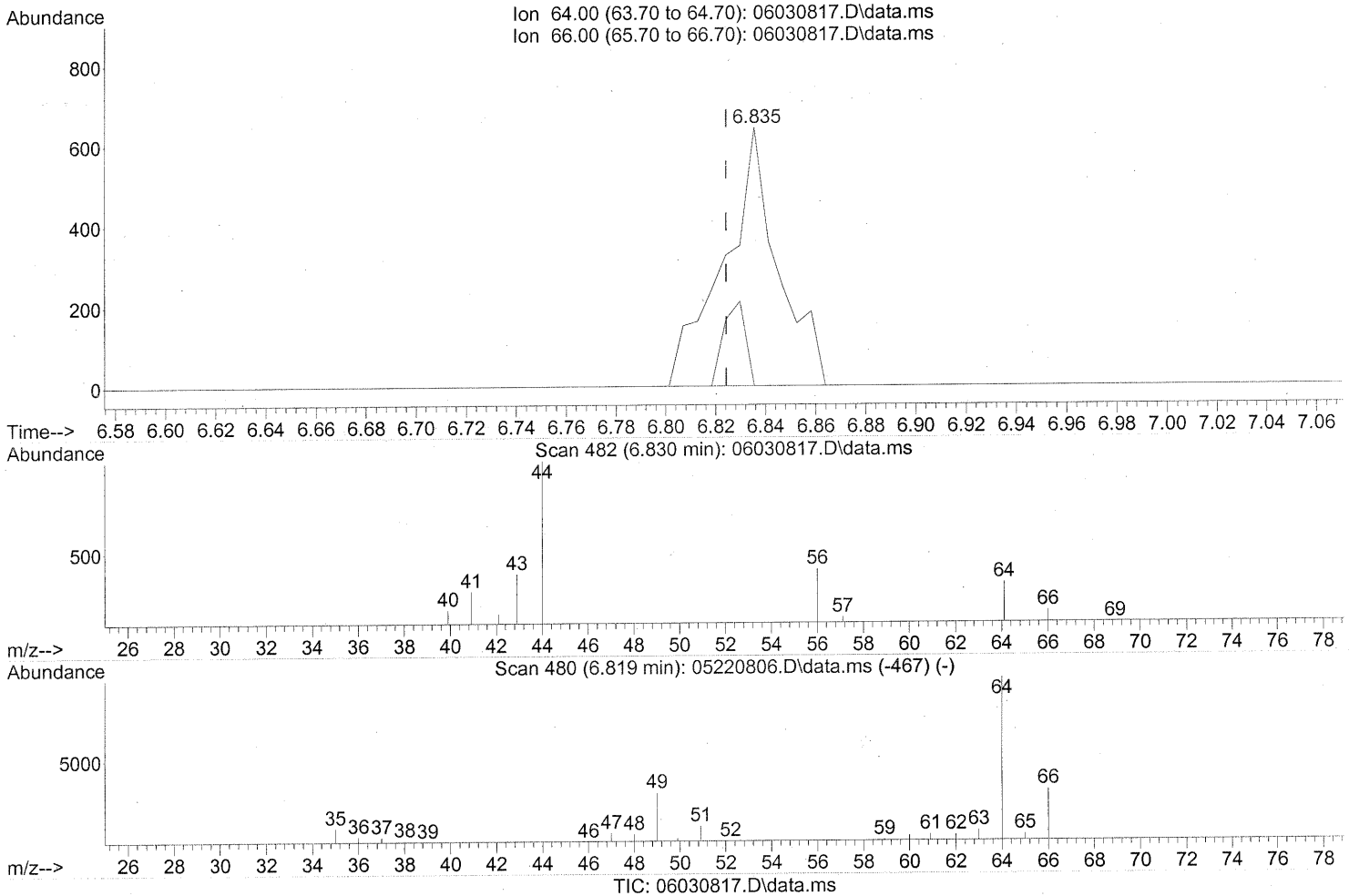
Ion	Exp%	Act%
85.00	100	100
87.00	32.50	31.53
100.90	9.30	8.95
102.90	6.00	5.67



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:42:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(9) Chloroethane (T)

6.835min (+0.011) 0.06ng

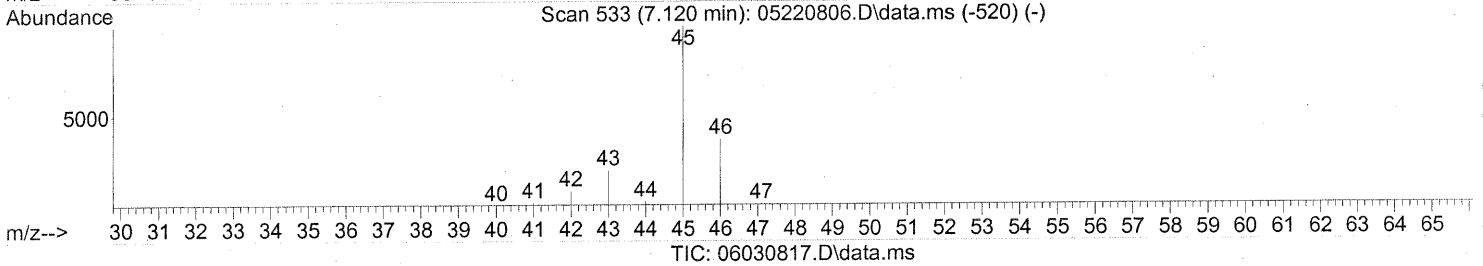
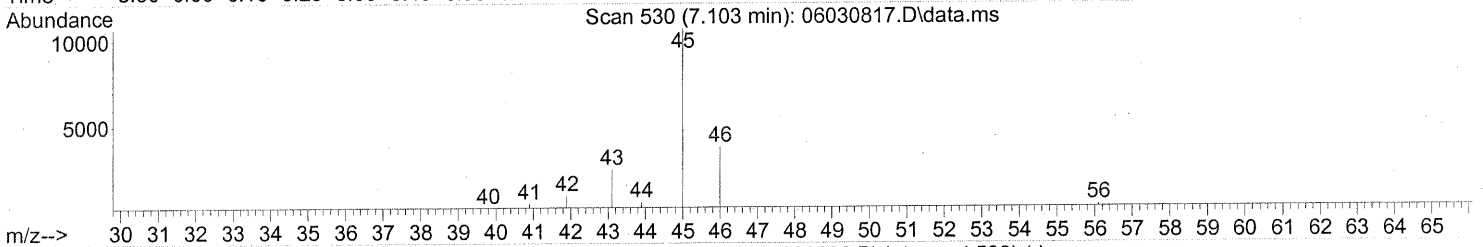
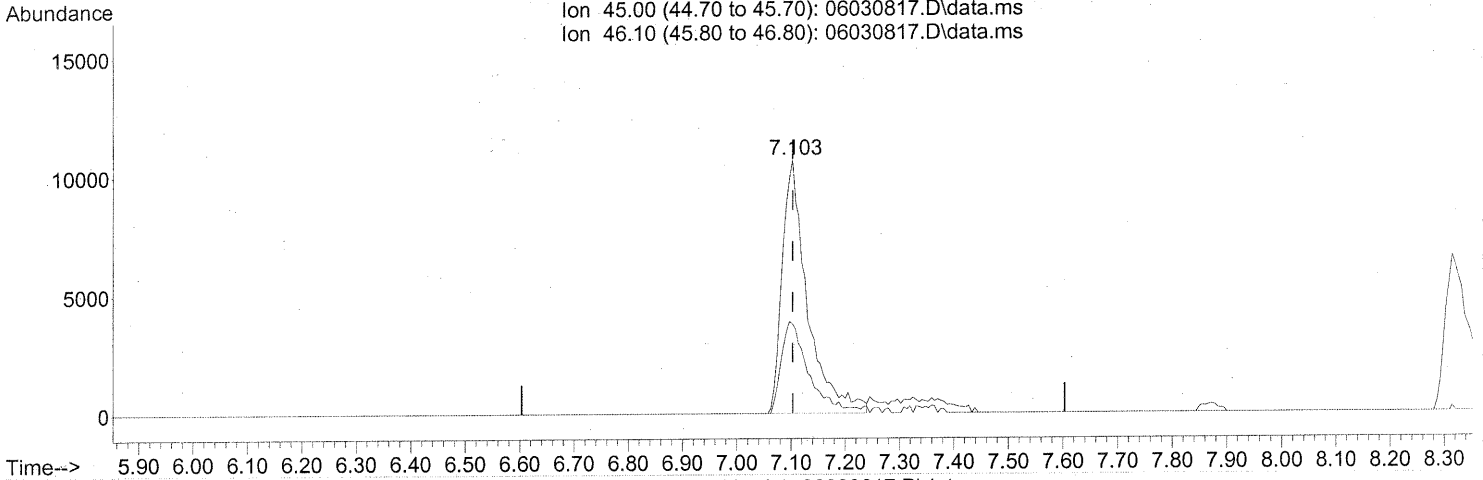
response 961

Ion	Exp%	Act%
64.00	100	100
66.00	29.60	13.32
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 04 10:42:53 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.103min (-0.000) 1.98ng  
response 34565

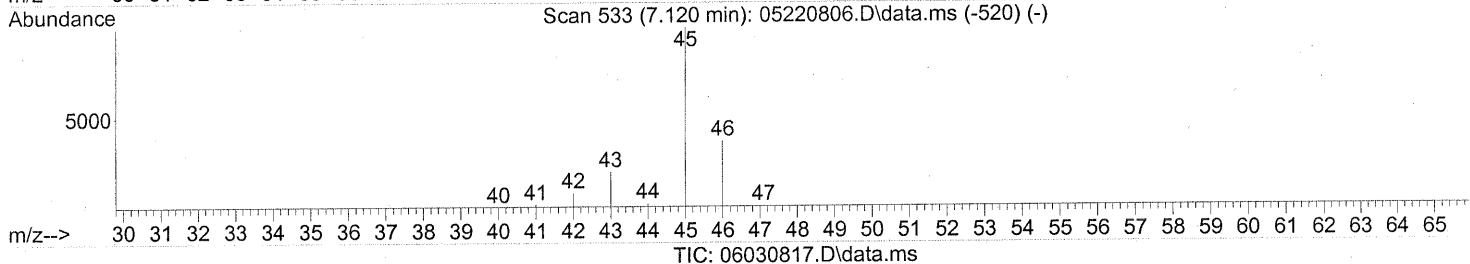
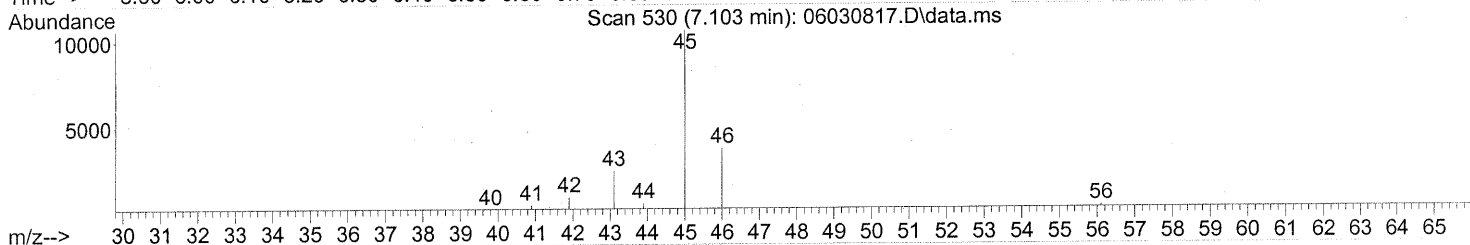
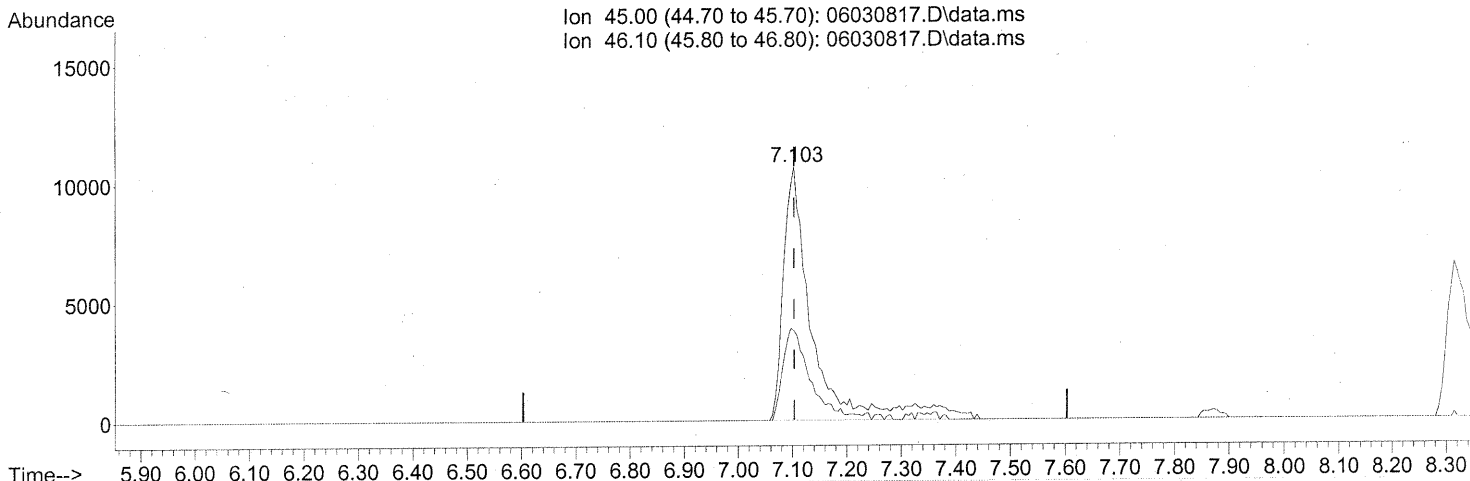
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	39.15
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 04 10:42:53 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)  
 7.103min (-0.000) 2.28ng m  
 response 39777

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.02
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING

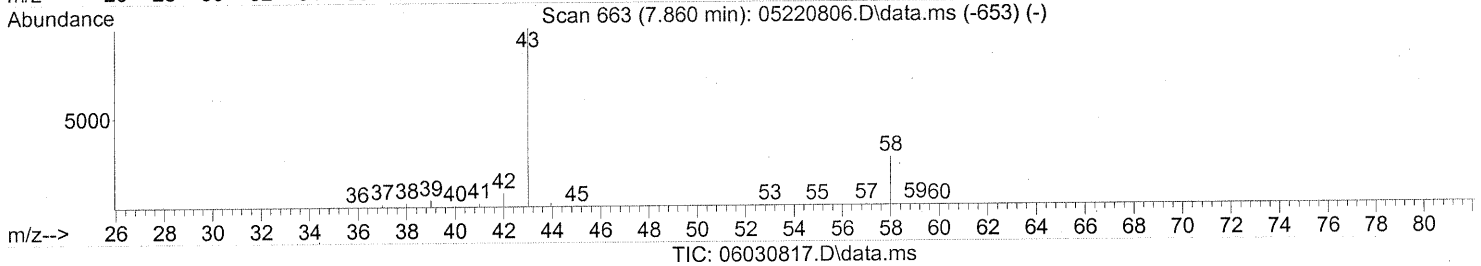
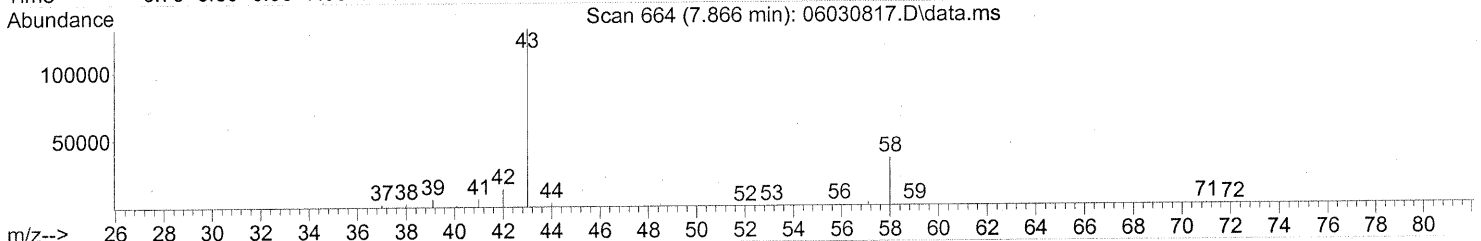
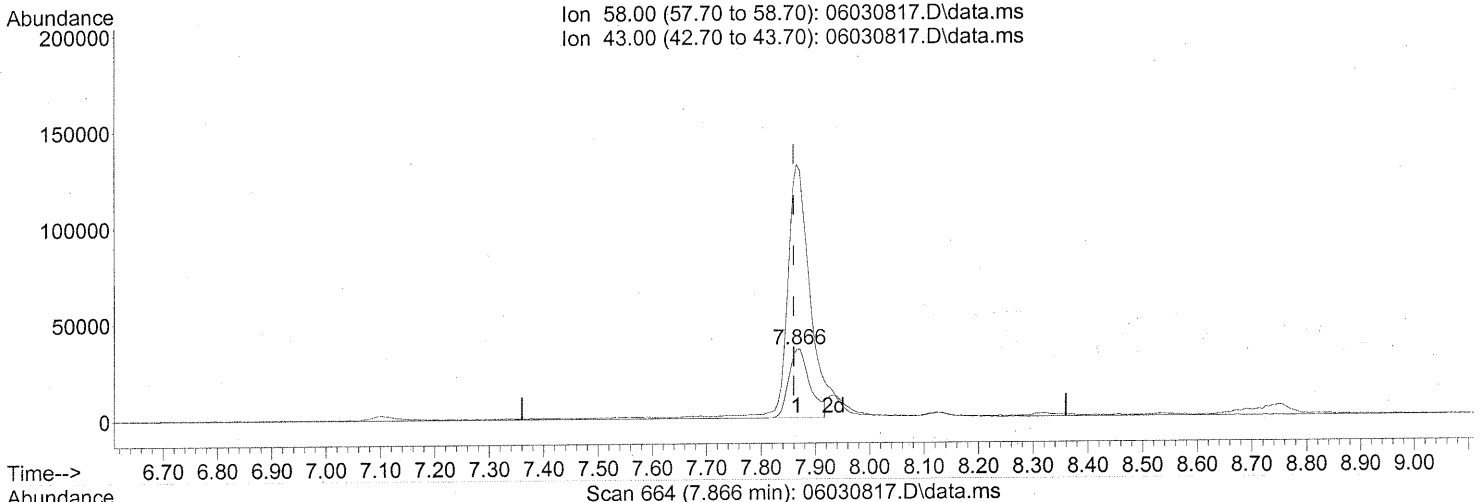
P06/08/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:42:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.866min (+0.006) 5.44ng

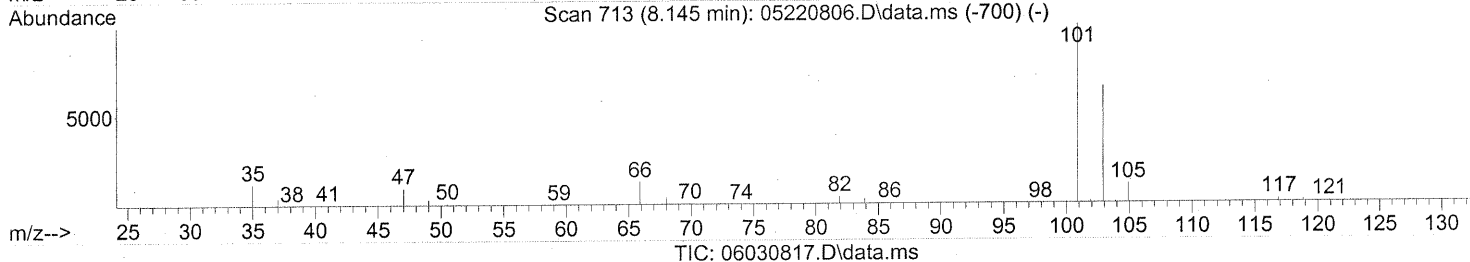
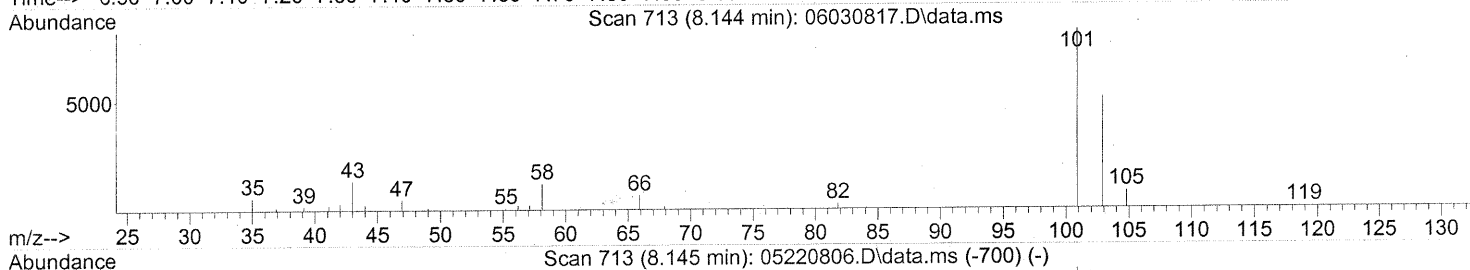
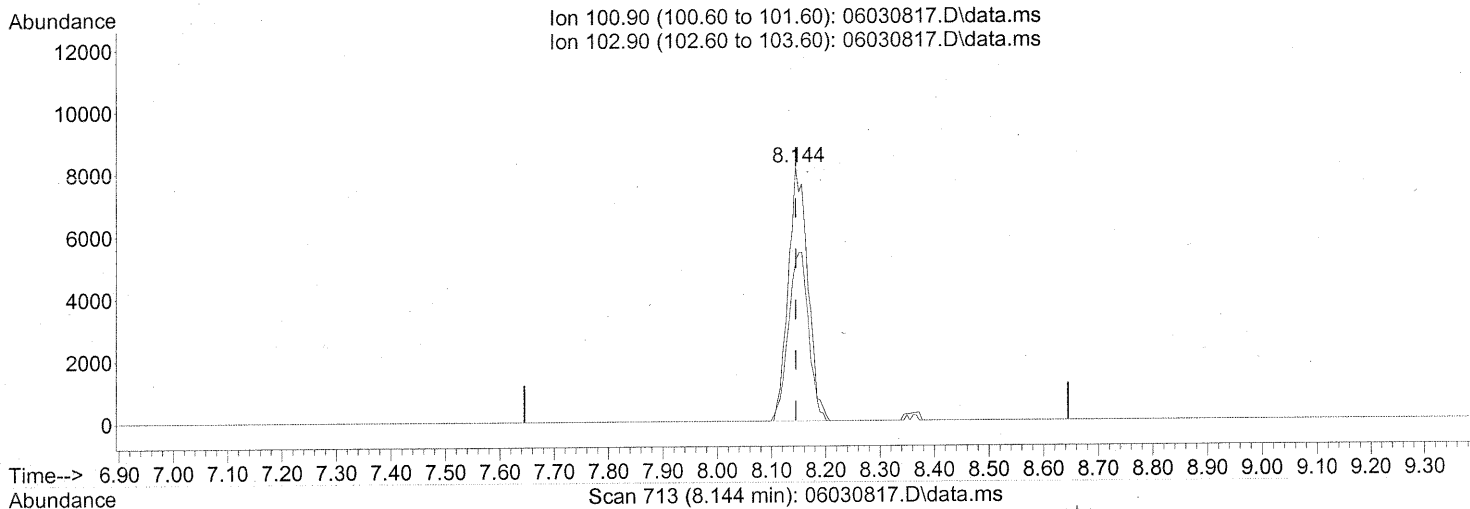
response 97215

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	396.69#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:42:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.144min (-0.000) 0.49ng

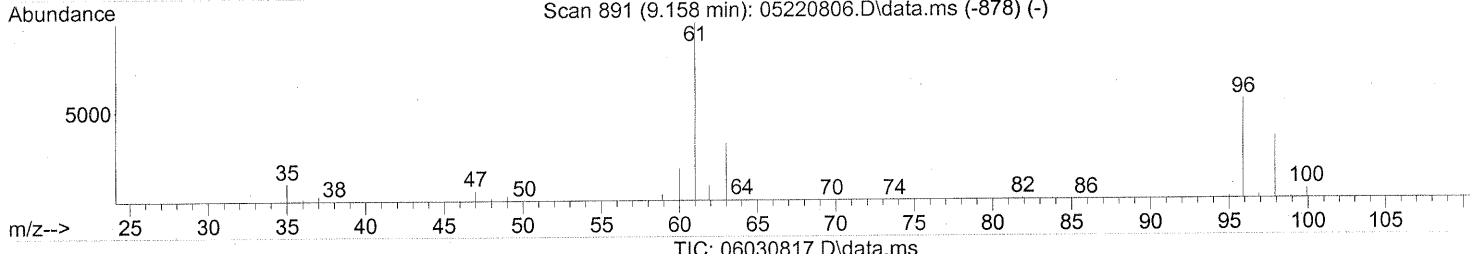
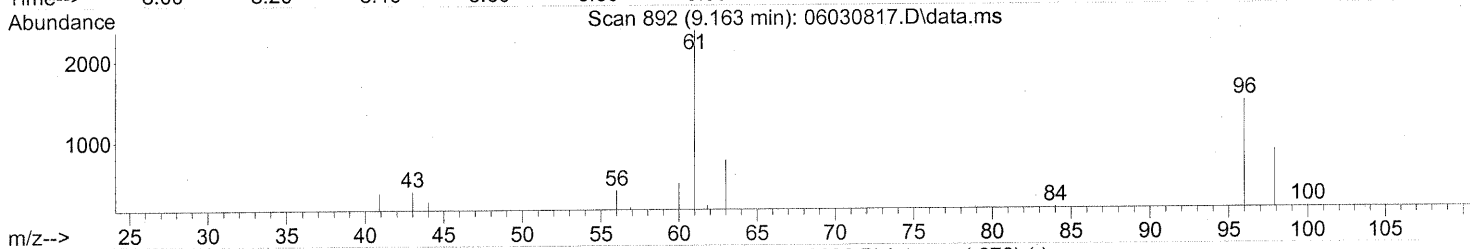
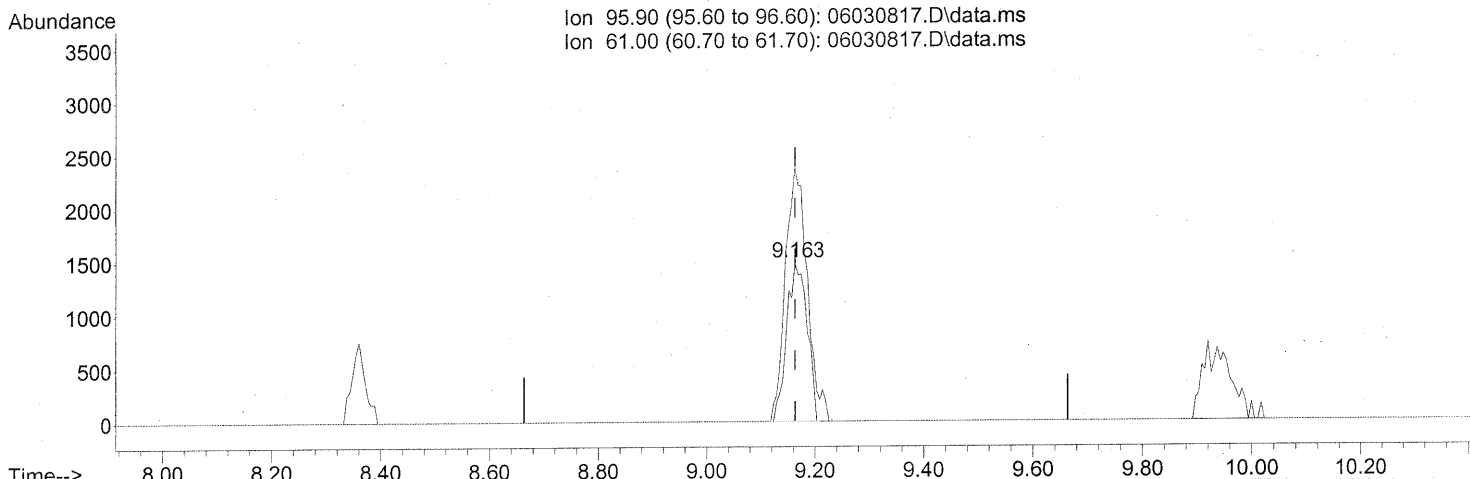
response 20391

Ion	Exp%	Act%
100.90	100	100
102.90	64.80	68.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:42:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(17) 1,1-Dichloroethene (T)

9.163min (-0.000) 0.21ng

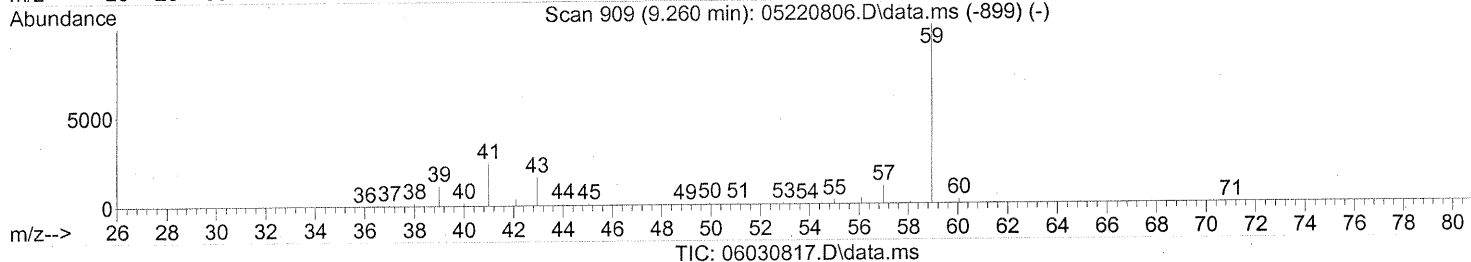
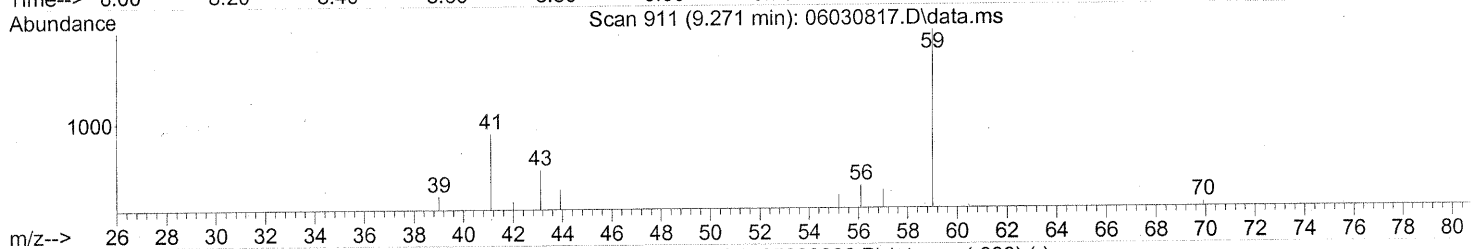
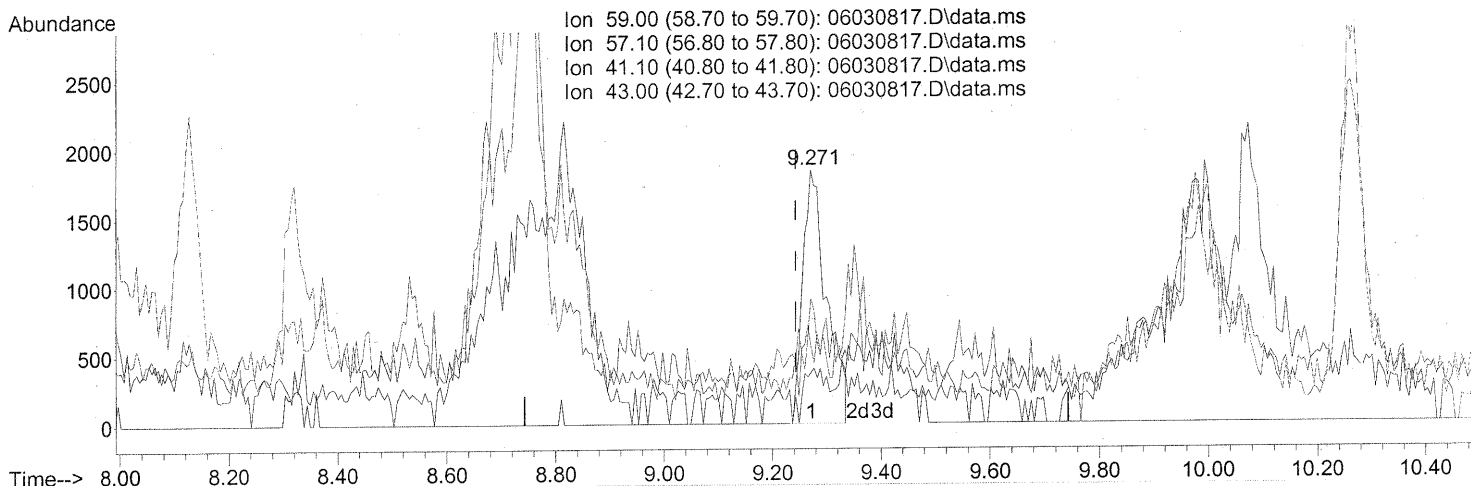
response 3845

Ion	Exp%	Act%
95.90	100	100
61.00	210.00	171.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:46:48 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.12ng  
 response 5584

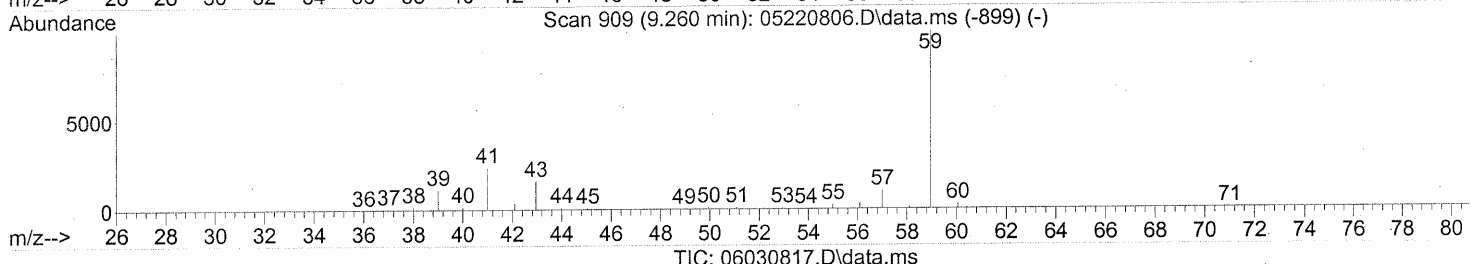
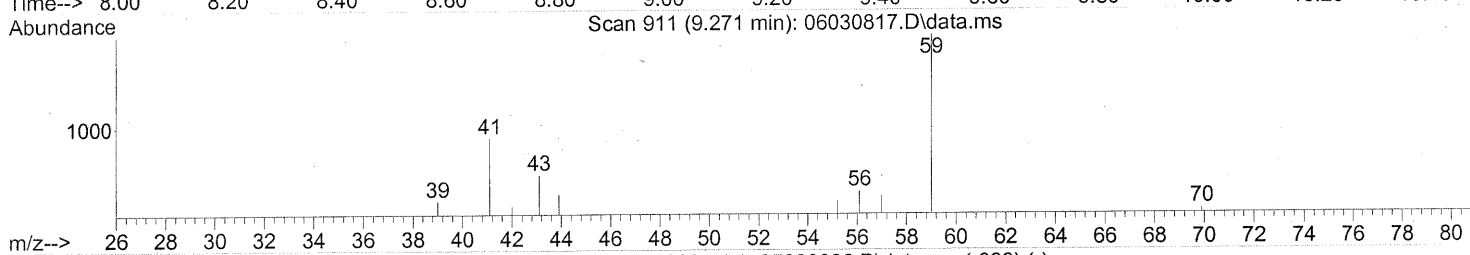
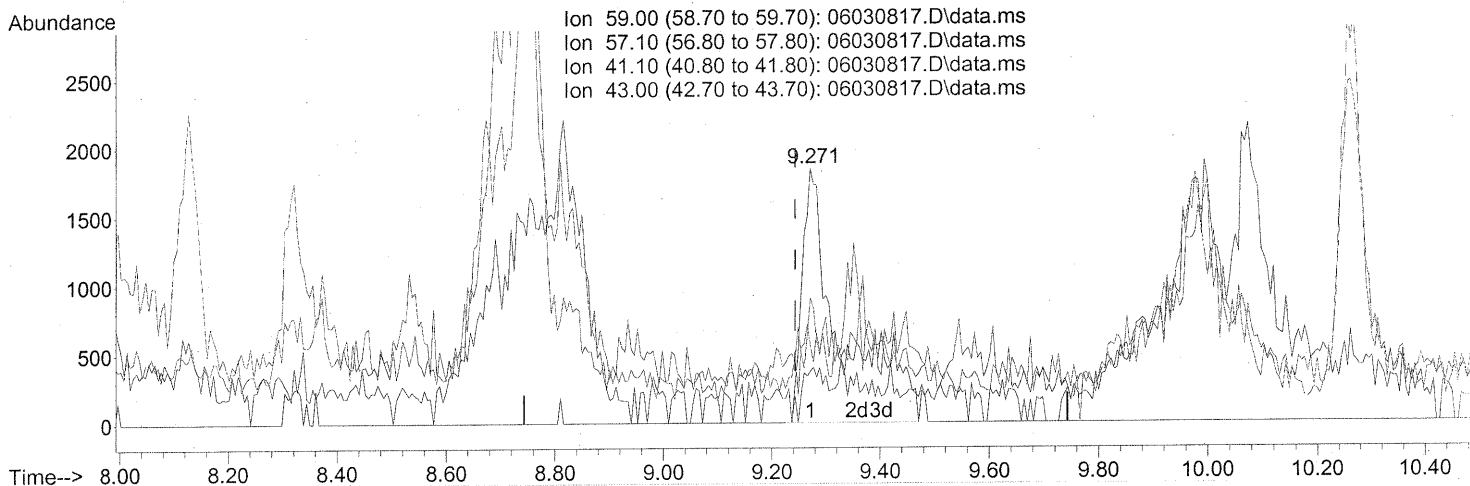
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	11.94
43.00	12.30	11.26

TAILING/SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:46:48 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.271min (+0.028) 0.19ng m

response 9140

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	7.30
43.00	12.30	6.88

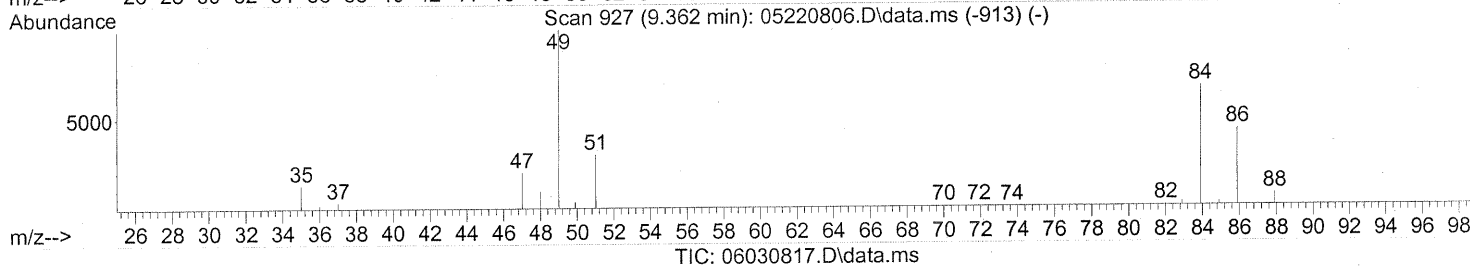
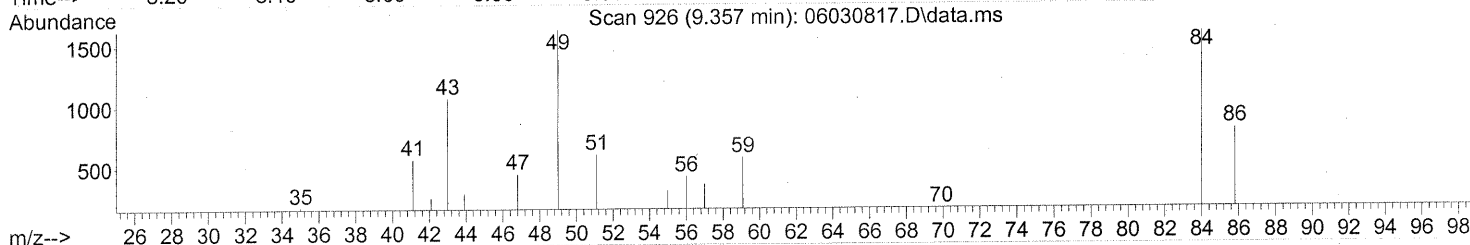
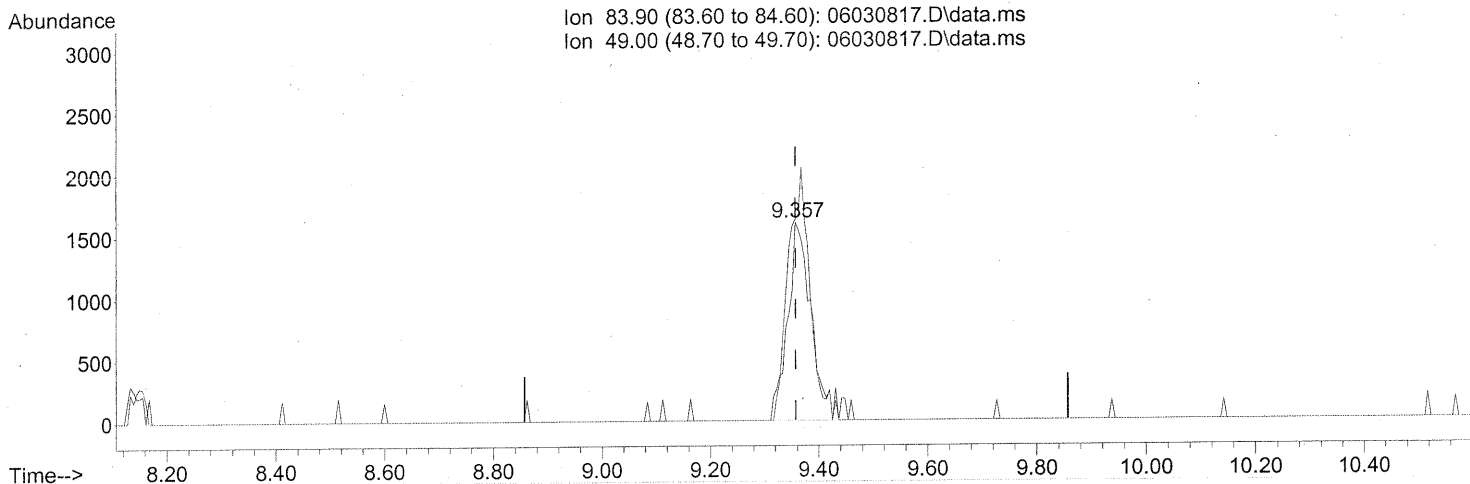
INT. THE WHOLE PEAK  
6/8/08  
6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.357min (-0.000) 0.24ng

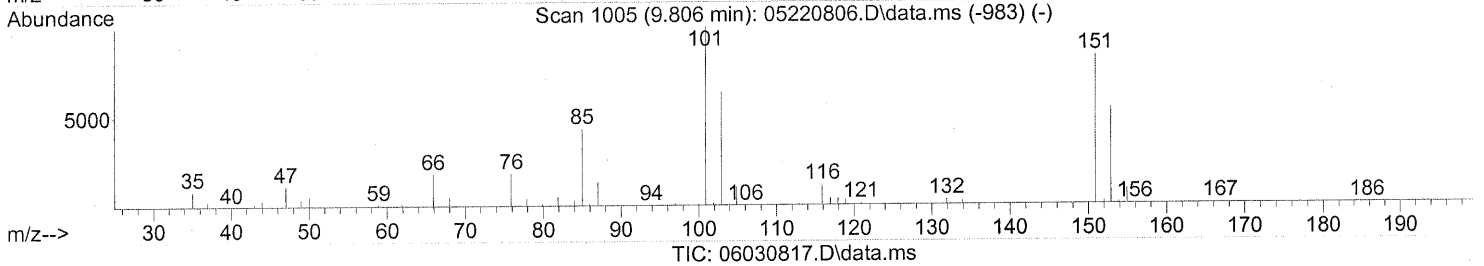
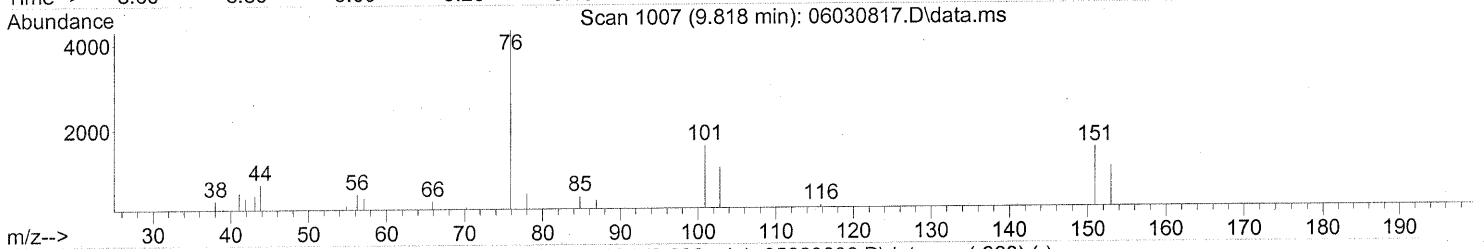
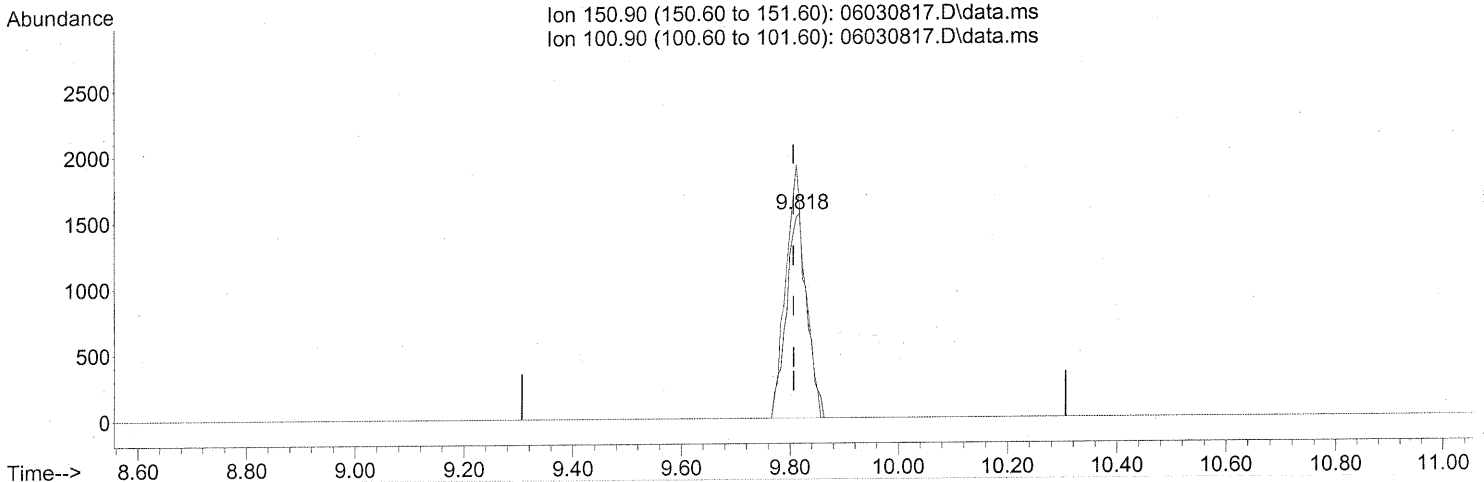
response 4736

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	120.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.818min (+0.011) 0.22ng

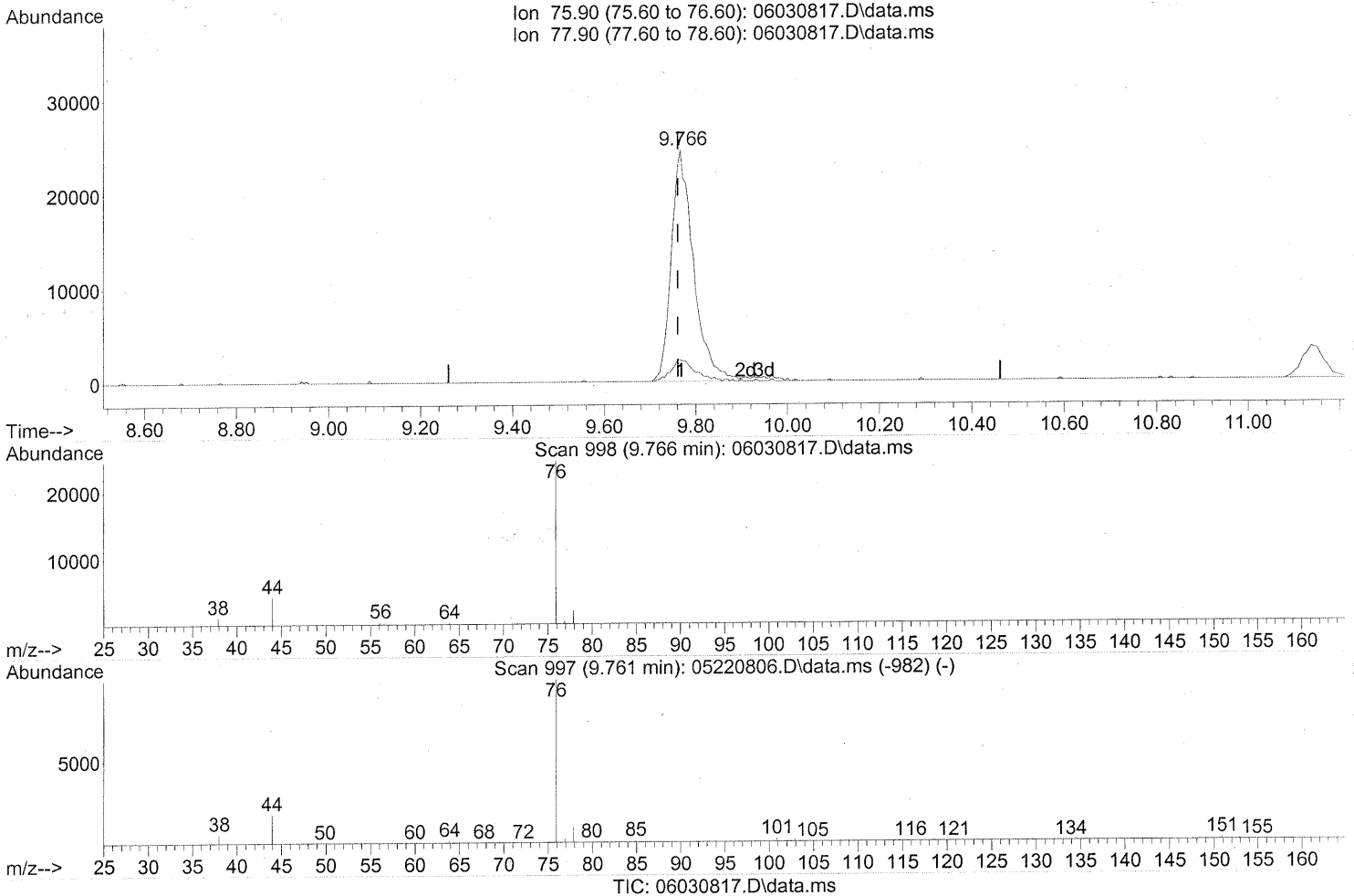
response 4126

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	113.65
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.766min (+0.005) 1.10ng

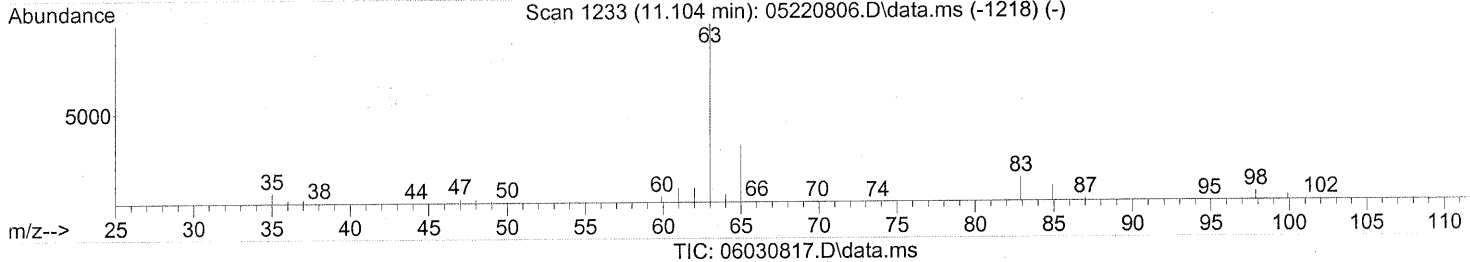
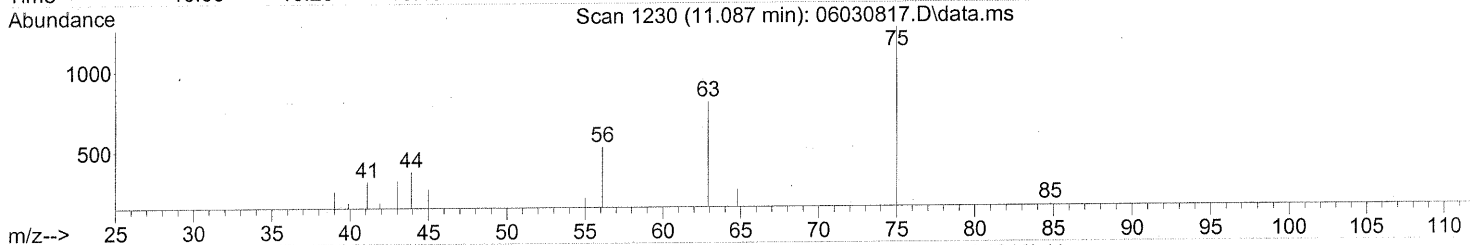
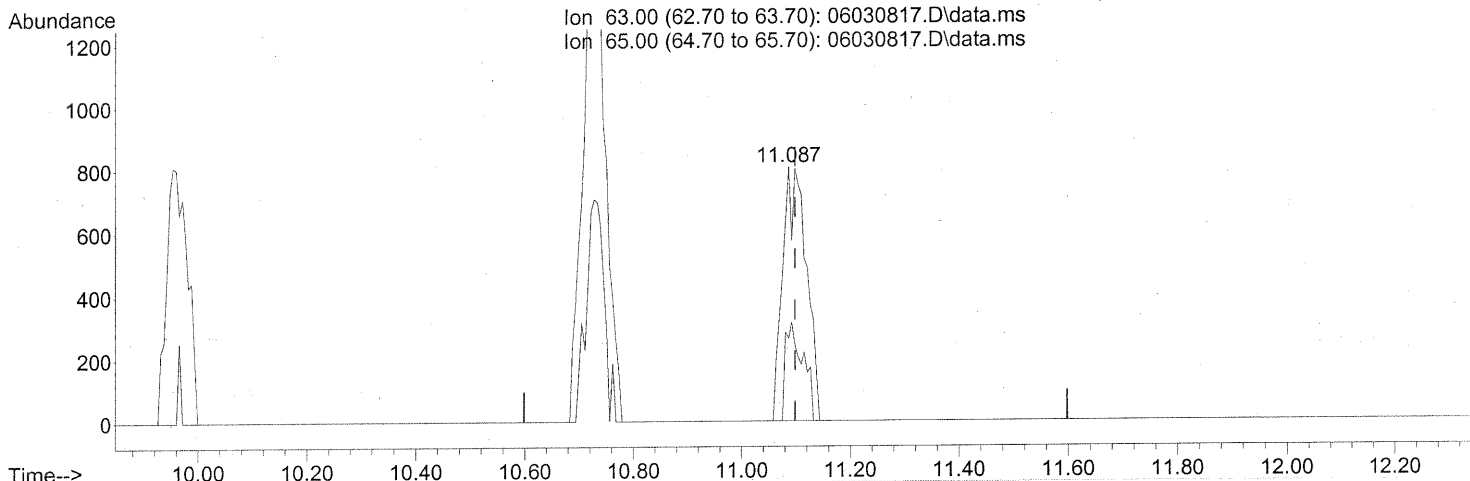
response 82929

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	10.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(24) 1,1-Dichloroethane (T)

11.087min (-0.012) 0.07ng

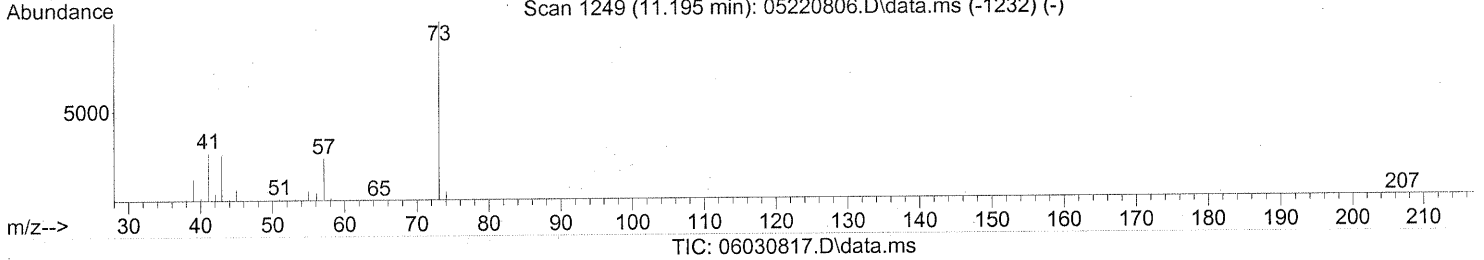
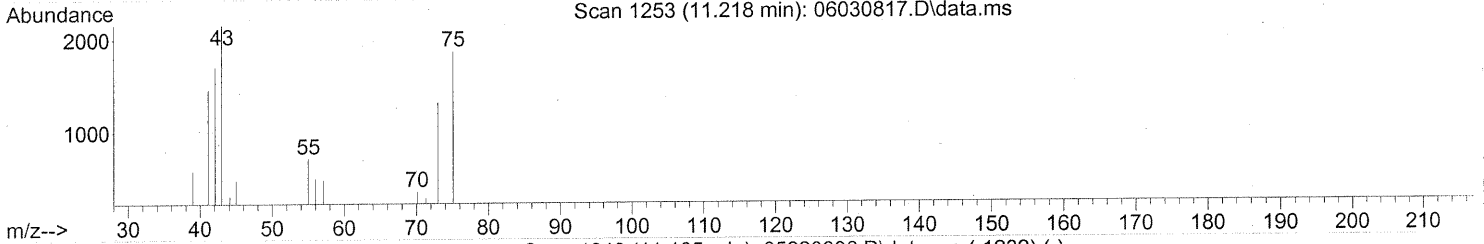
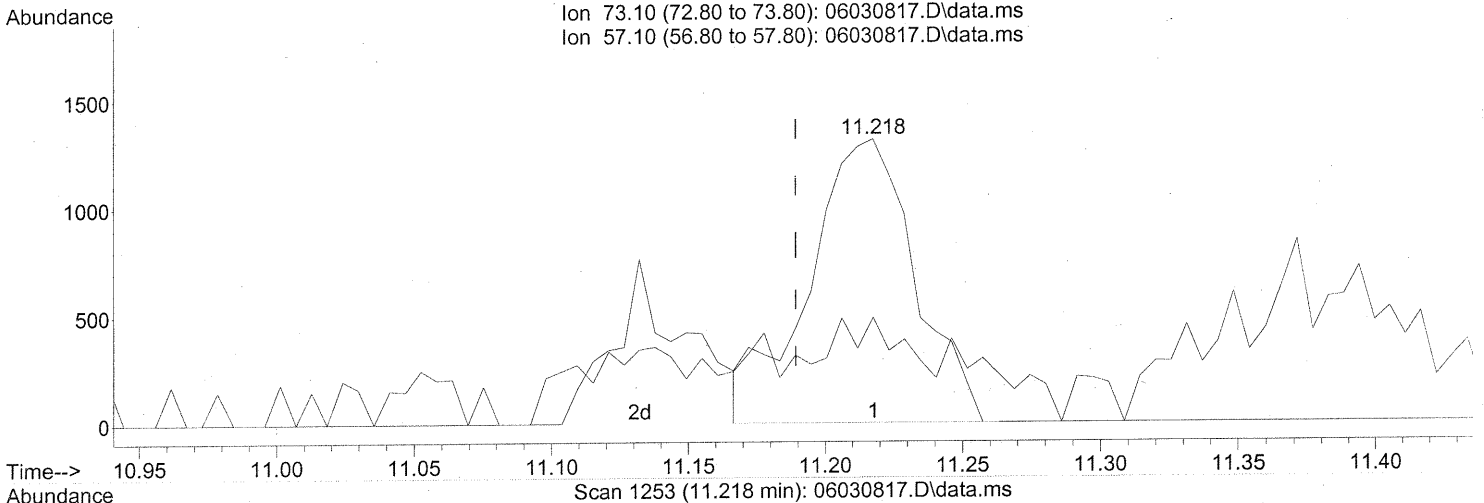
response 2433

Ion	Exp%	Act%
63.00	100	100
65.00	29.10	28.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.218min (+0.028) 0.06ng

response 3539

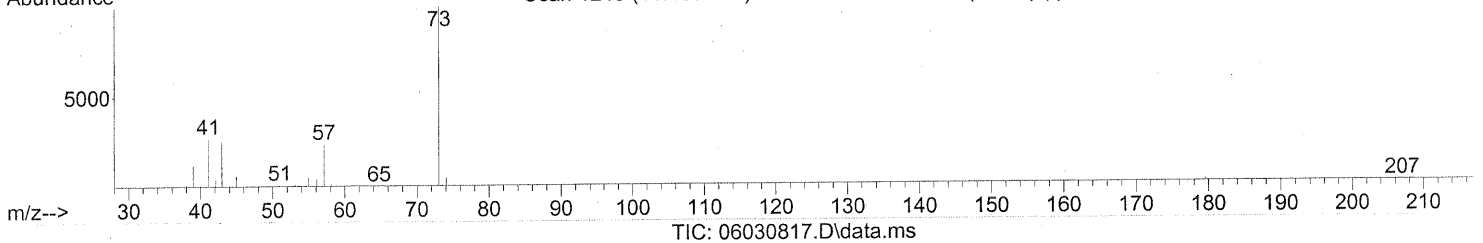
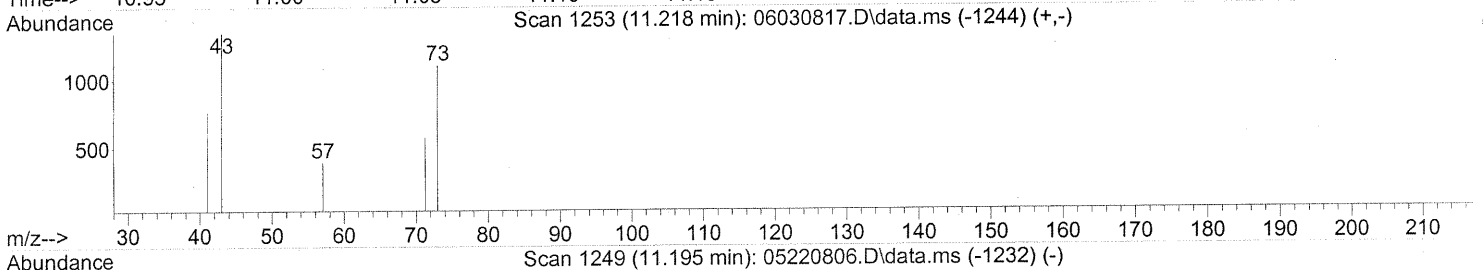
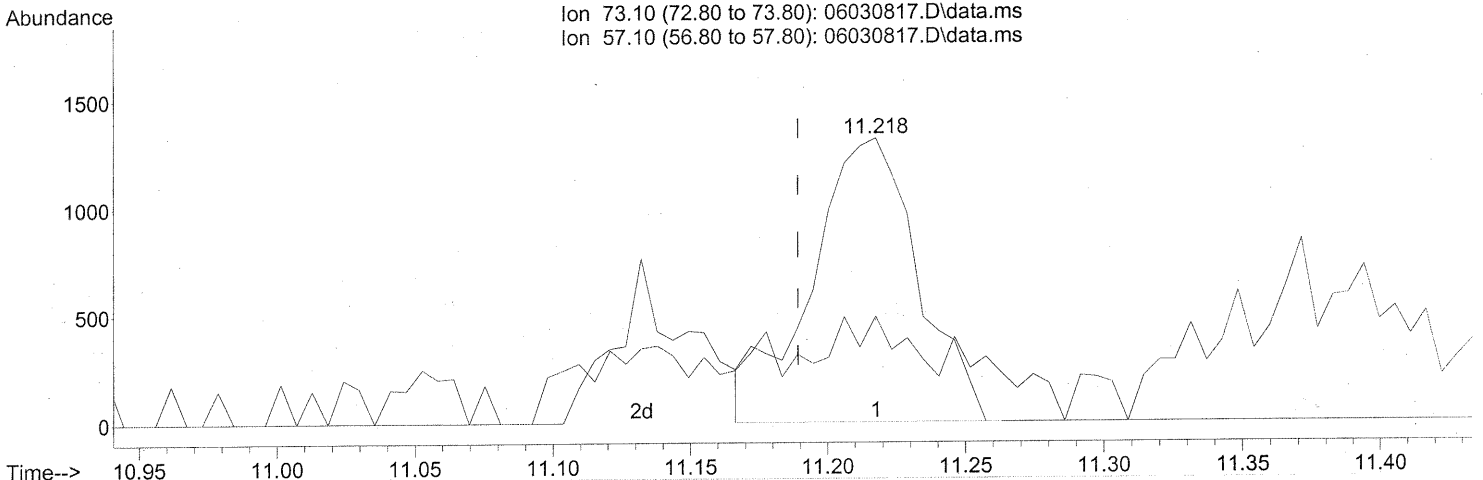
Ion	Exp%	Act%
73.10	100	100
57.10	31.40	17.58
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(25) Methyl tert-Butyl Ether (T)

11.218min (+0.028) 0.06ng

response 3539

Ion	Exp%	Act%
73.10	100	100
57.10	31.40	17.58
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

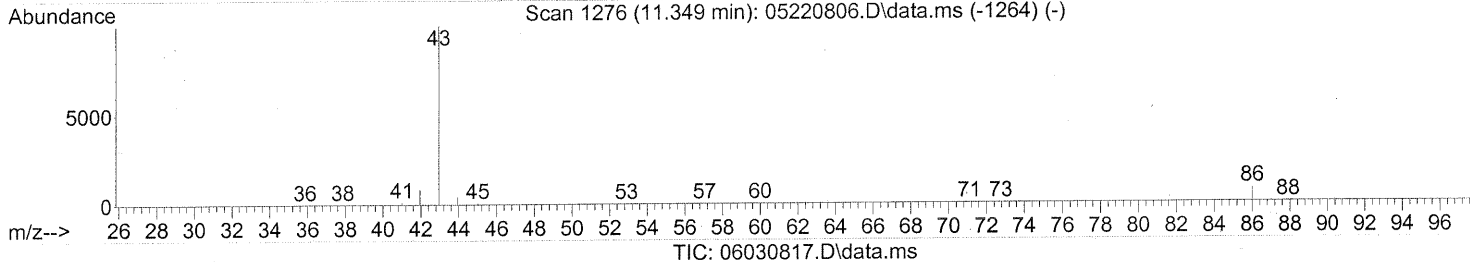
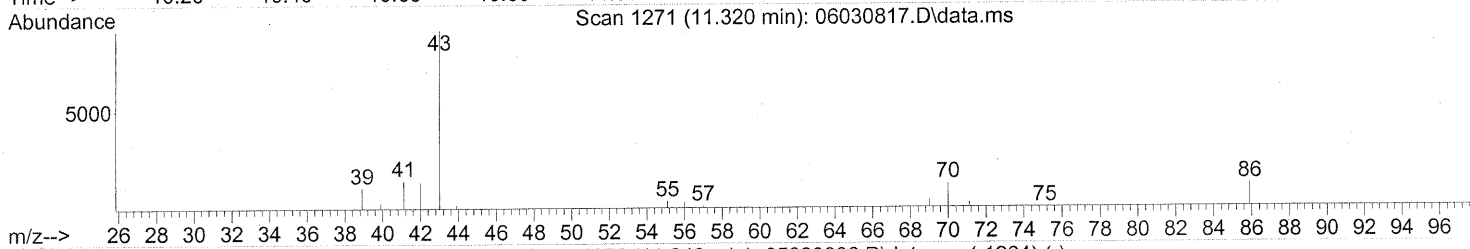
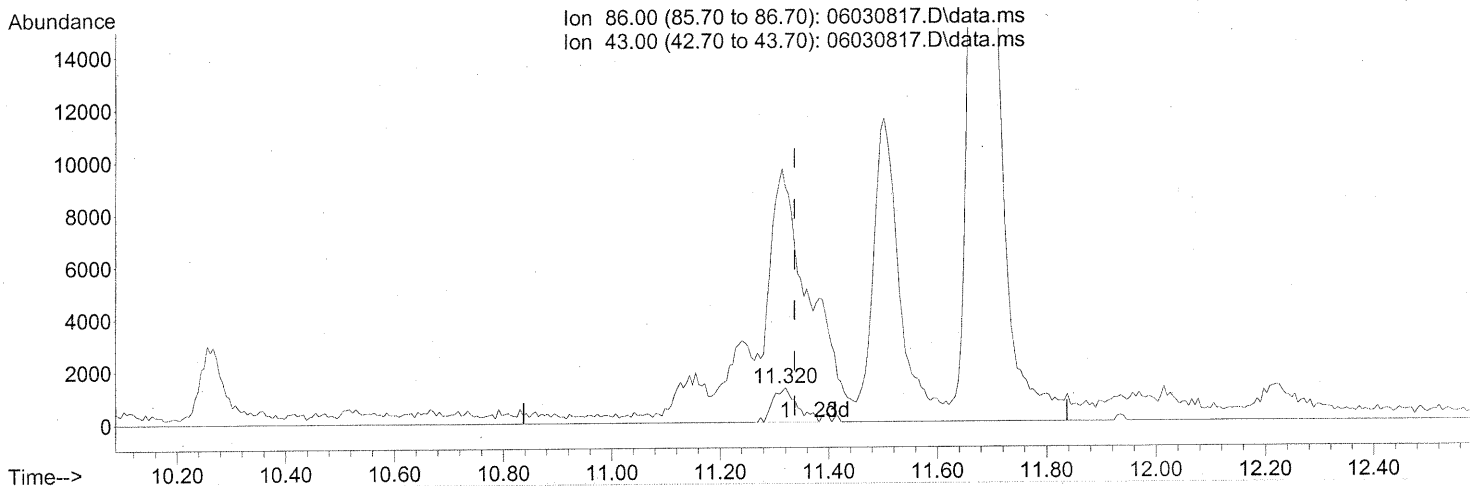
*Fogel*

*6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.320min (-0.017) 1.21ng

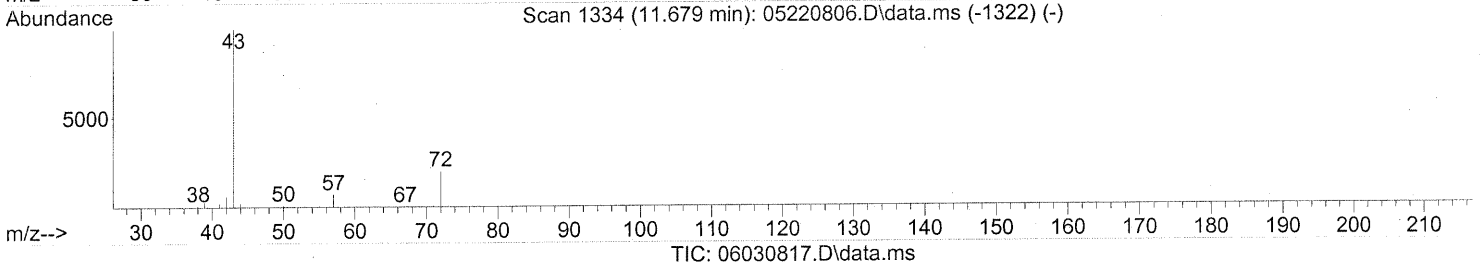
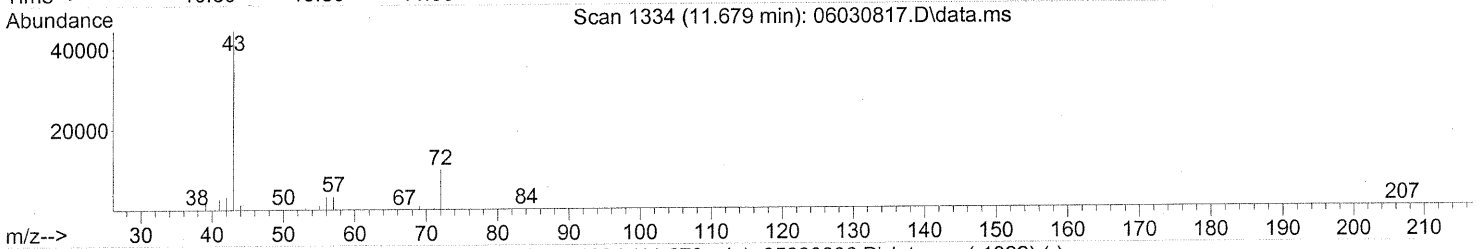
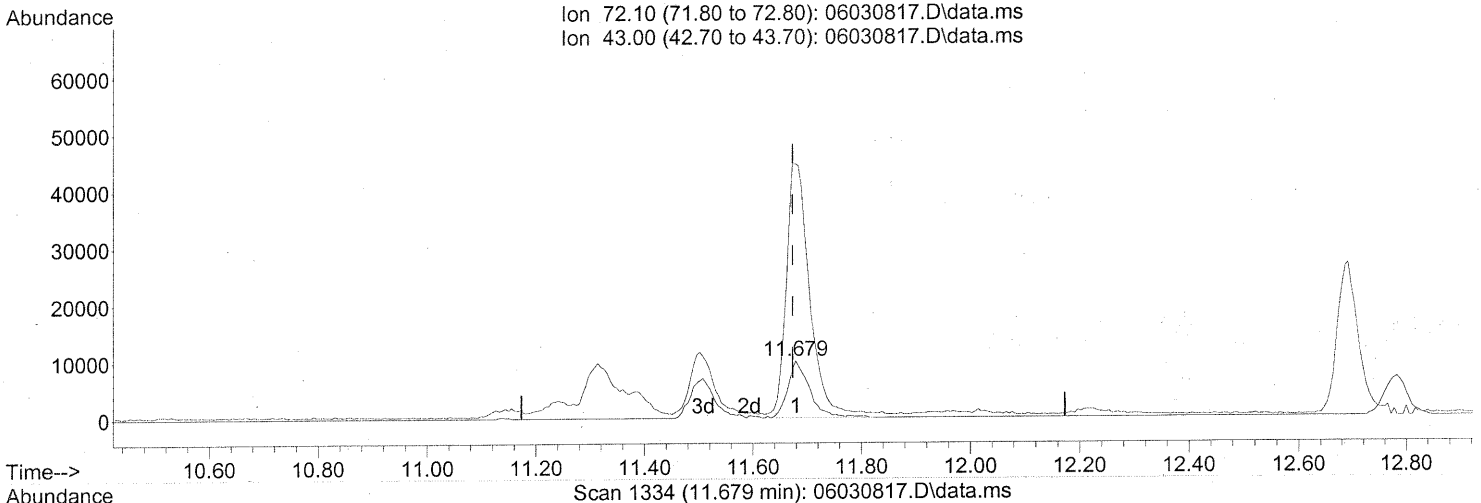
response 4006

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	1104.42#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)  
 11.679min (+0.006) 2.15ng

response 27961

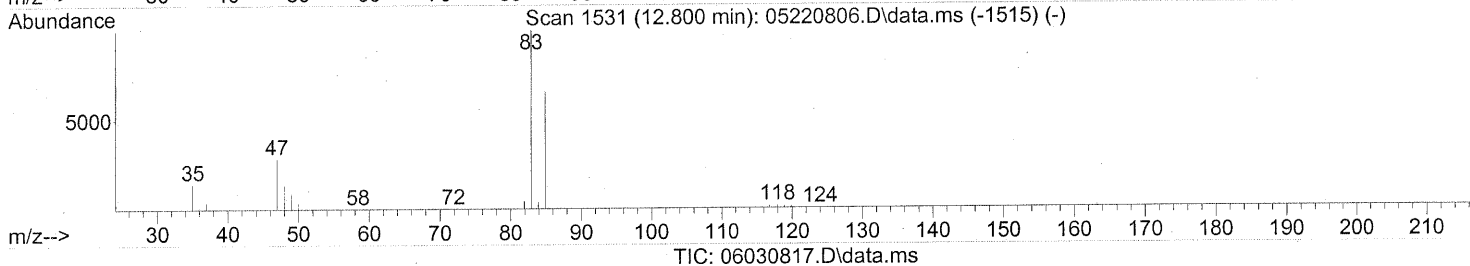
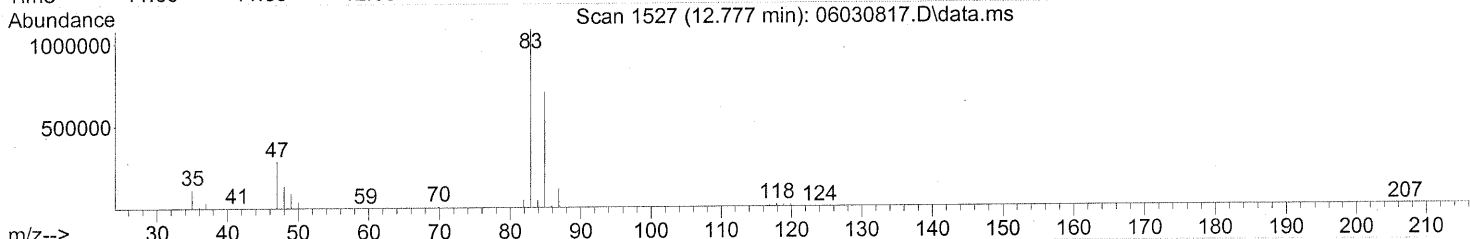
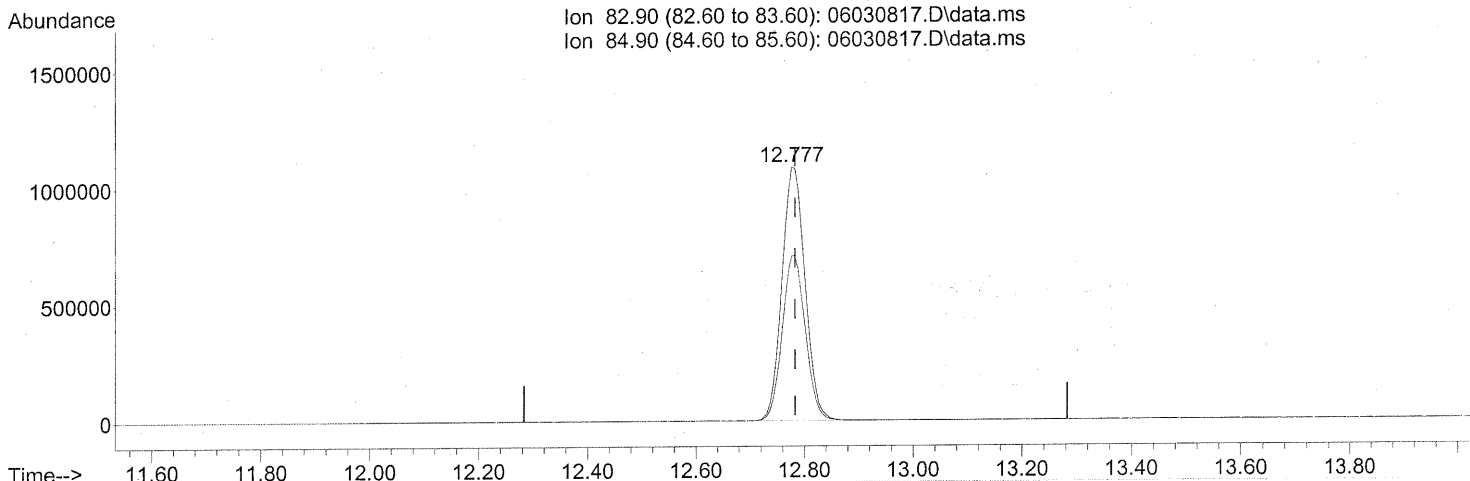
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	463.32#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.777min (-0.006) 106.16ng

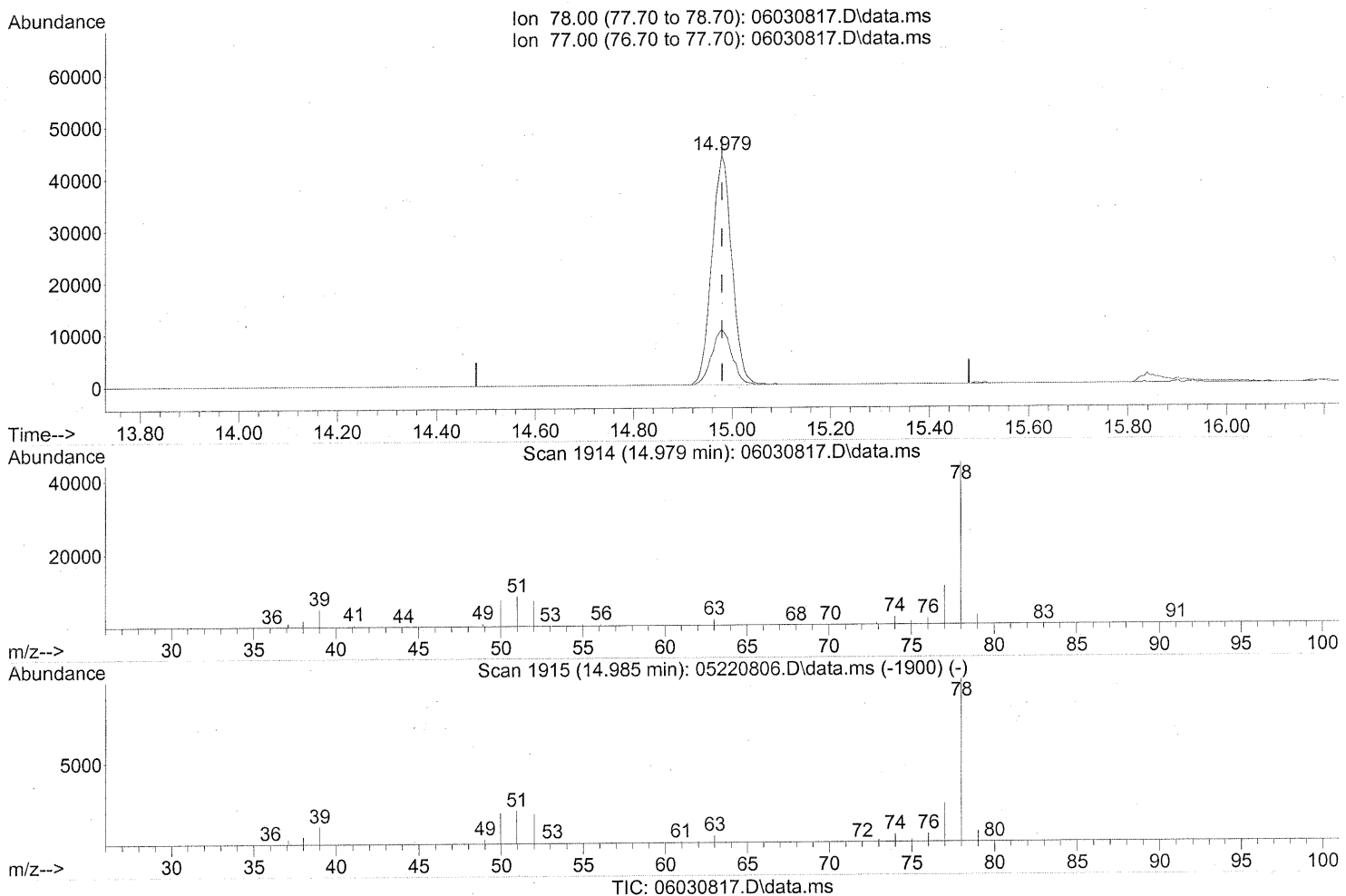
response 3210658

Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(41) Benzene (T)

14.979min (-0.000) 1.61ng

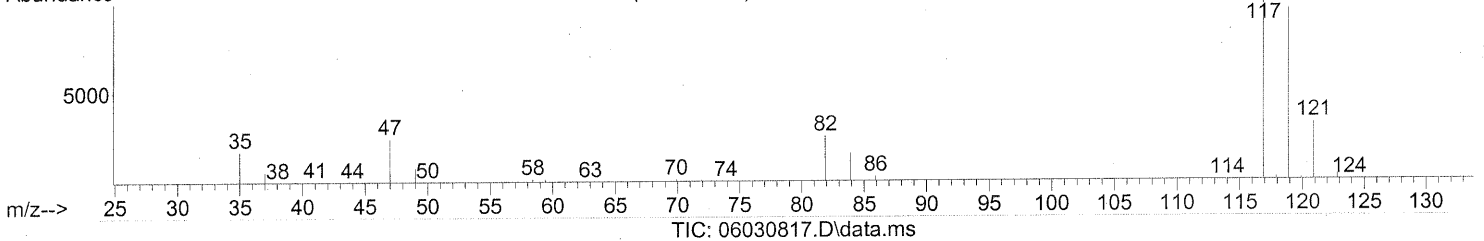
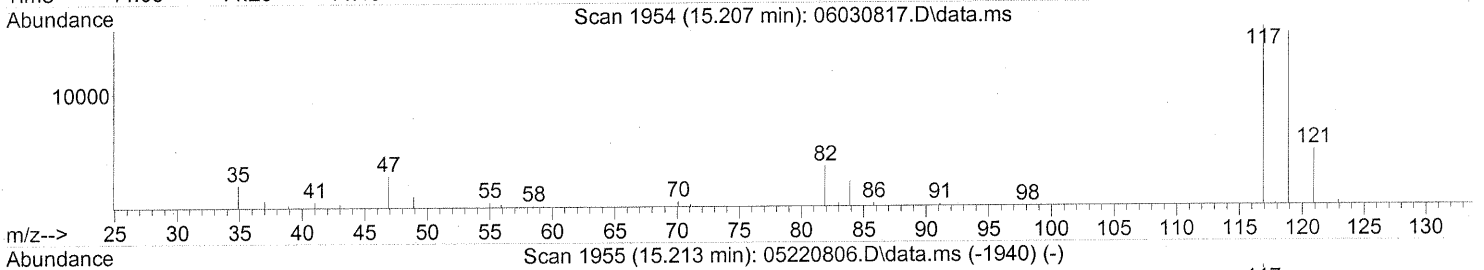
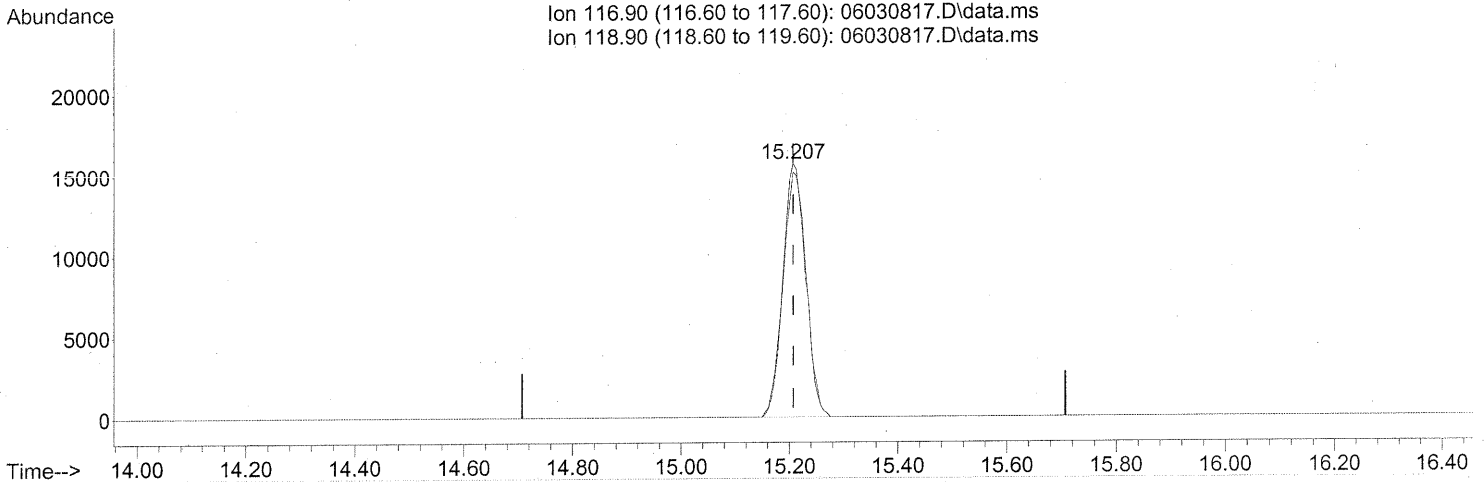
response 123451

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (-0.000) 1.56ng

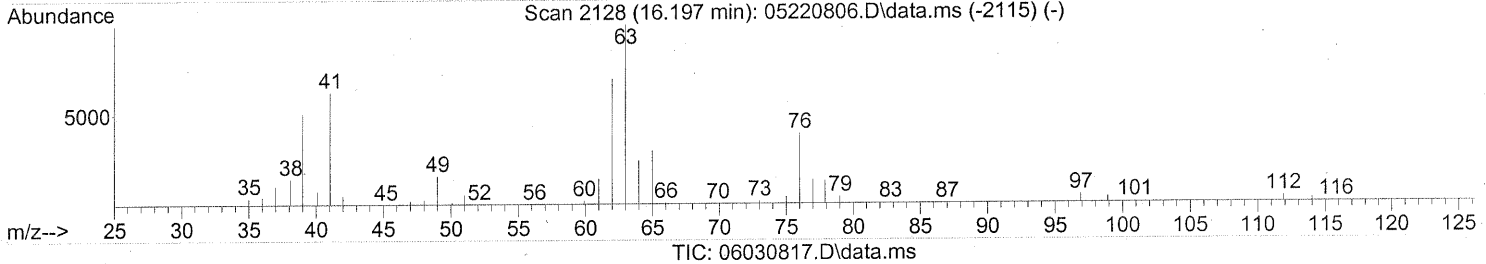
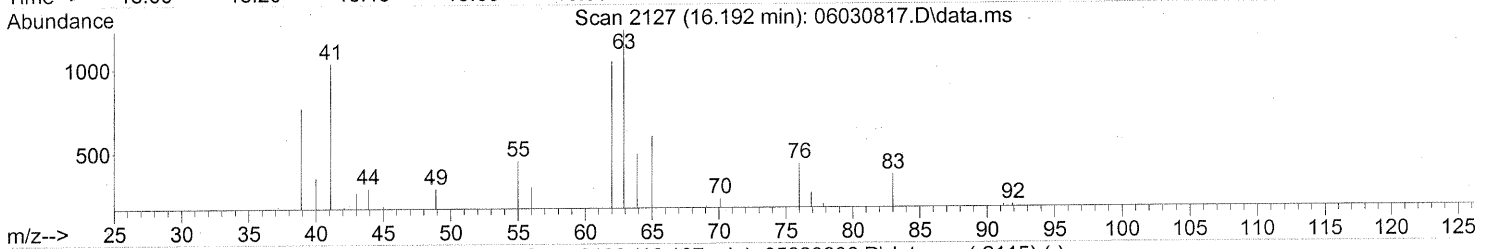
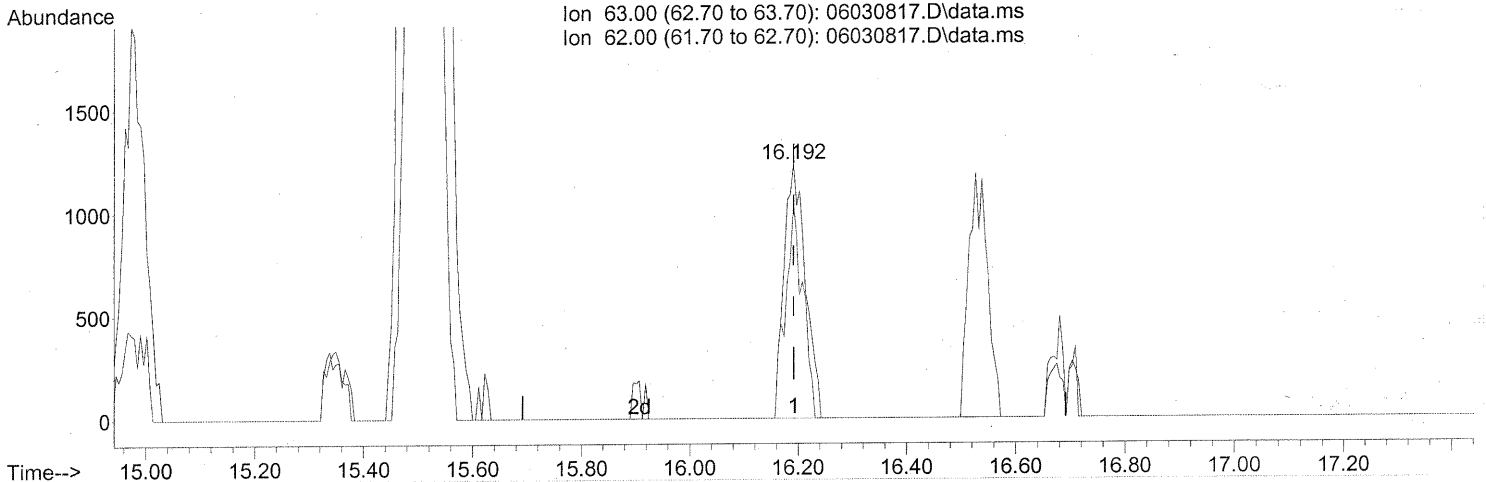
response 46079

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	95.35
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(45) 1,2-Dichloropropane (T)

16.192min (-0.000) 0.16ng

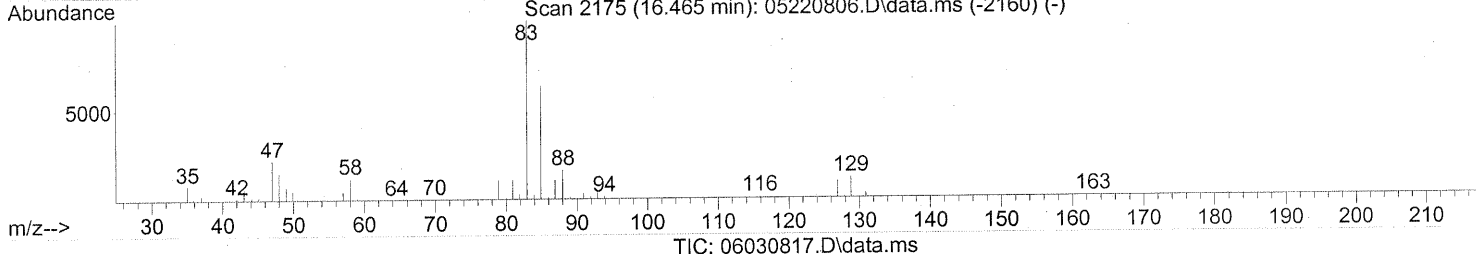
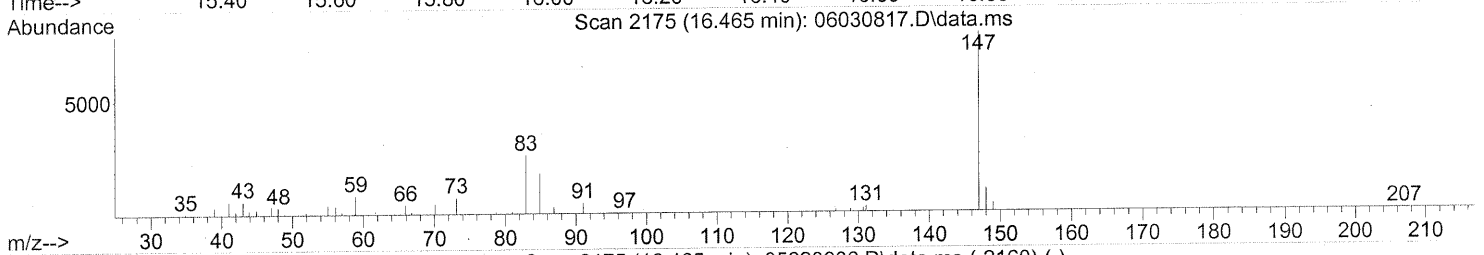
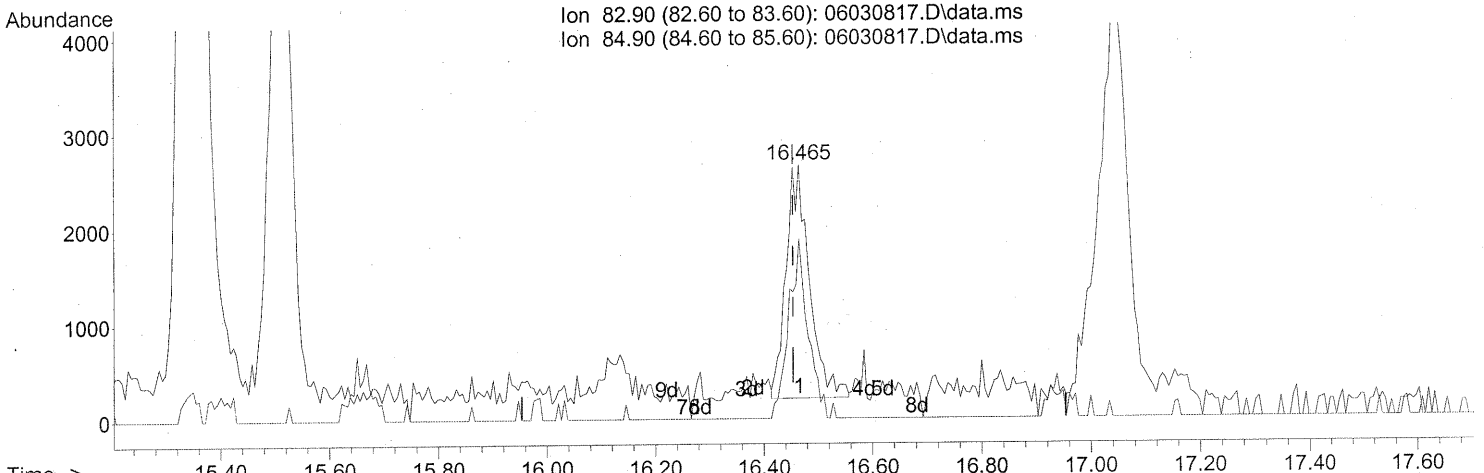
response 3378

Ion	Exp%	Act%
63.00	100	100
62.00	71.30	69.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(46) Bromodichloromethane (T)

16.465min (+0.011) 0.28ng

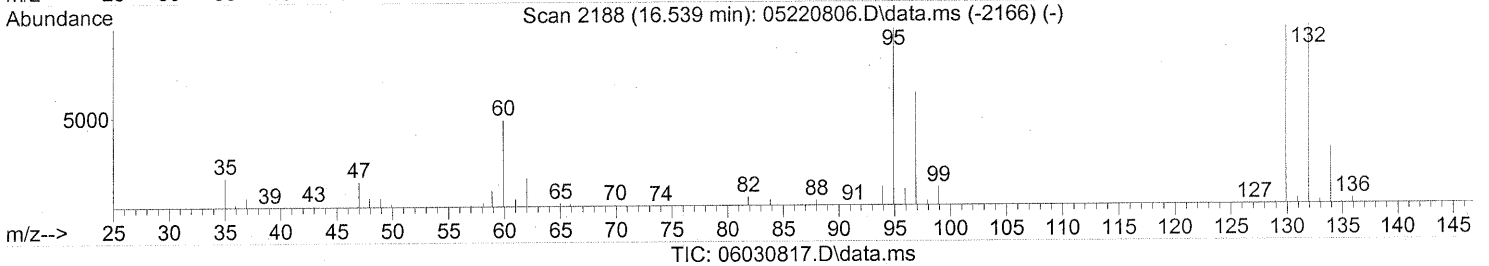
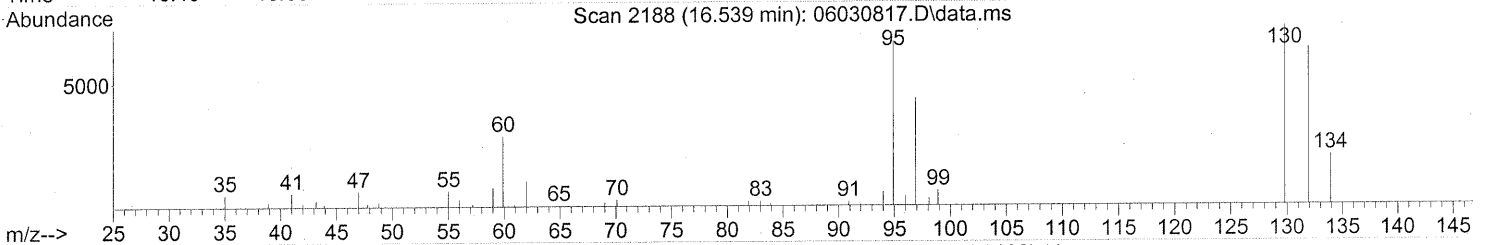
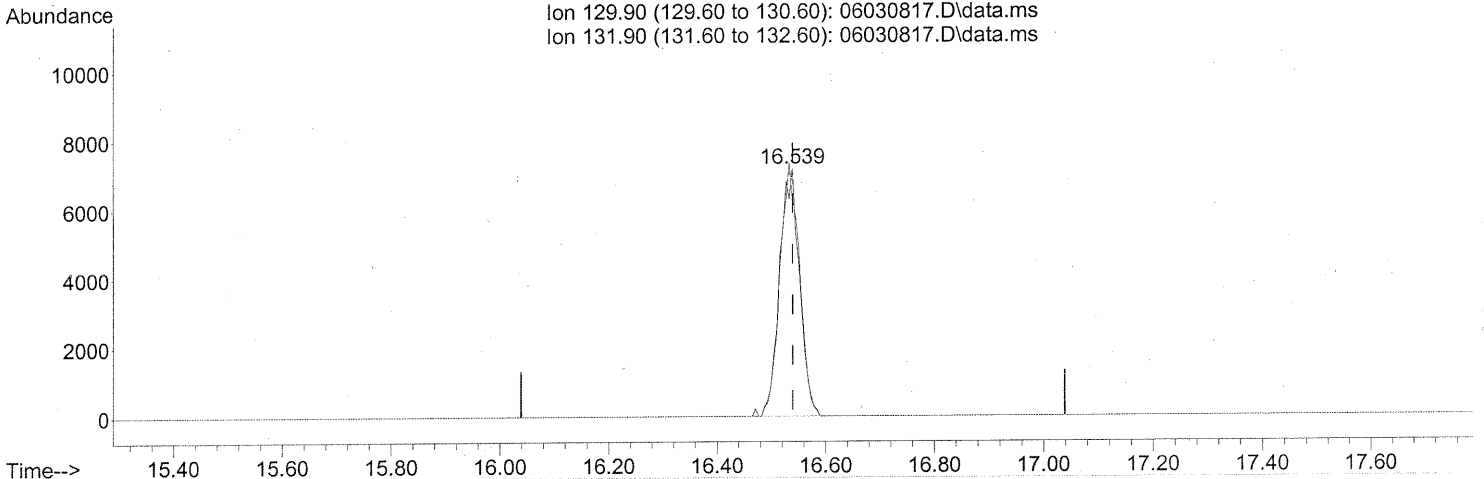
response 7316

Ion	Exp%	Act%
82.90	100	100
84.90	63.70	63.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(47) Trichloroethene (T)

16.539min (-0.000) 0.77ng

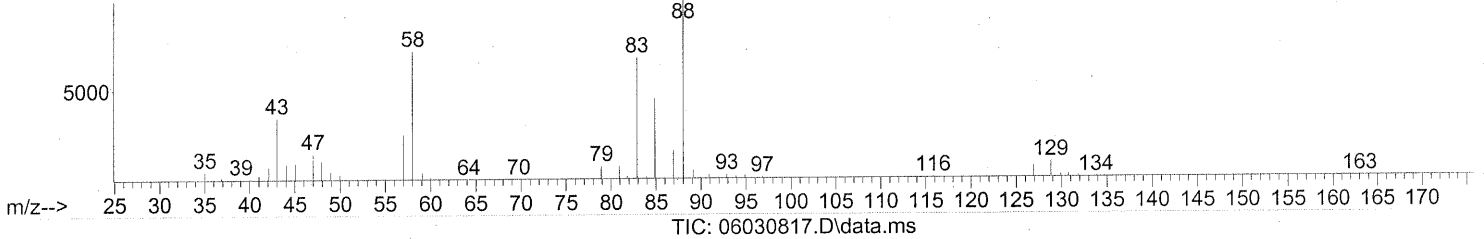
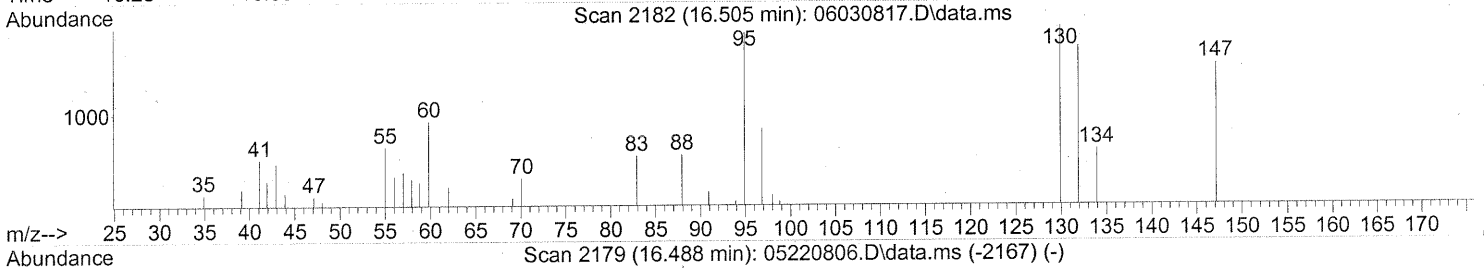
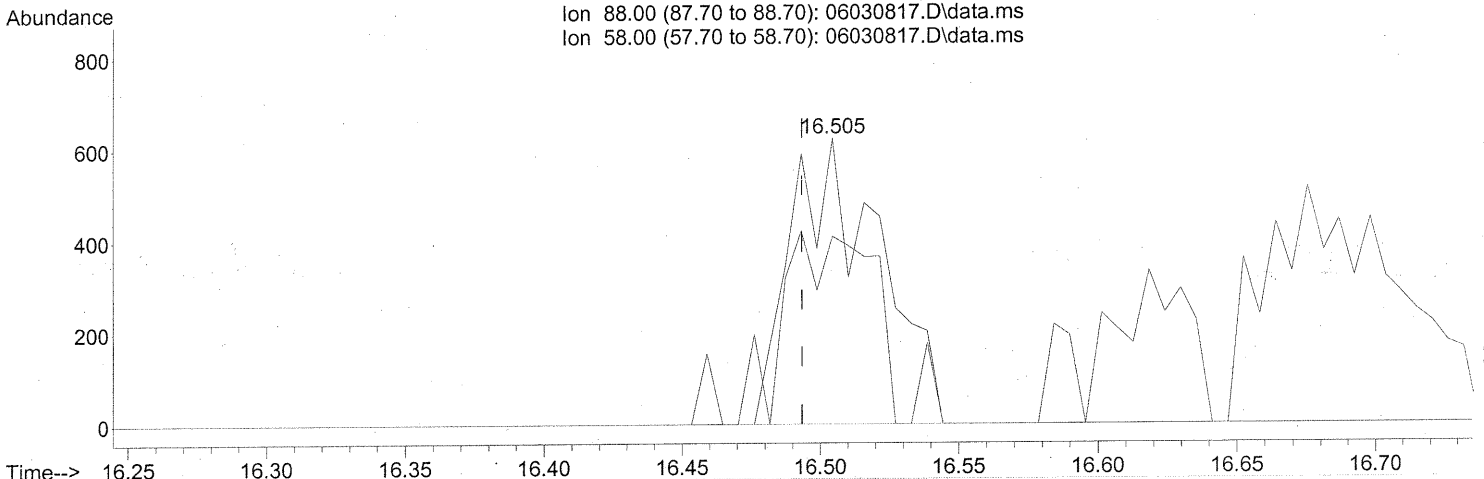
response 18101

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.13
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
16.505min (+0.011) 0.10ng  
response 1378

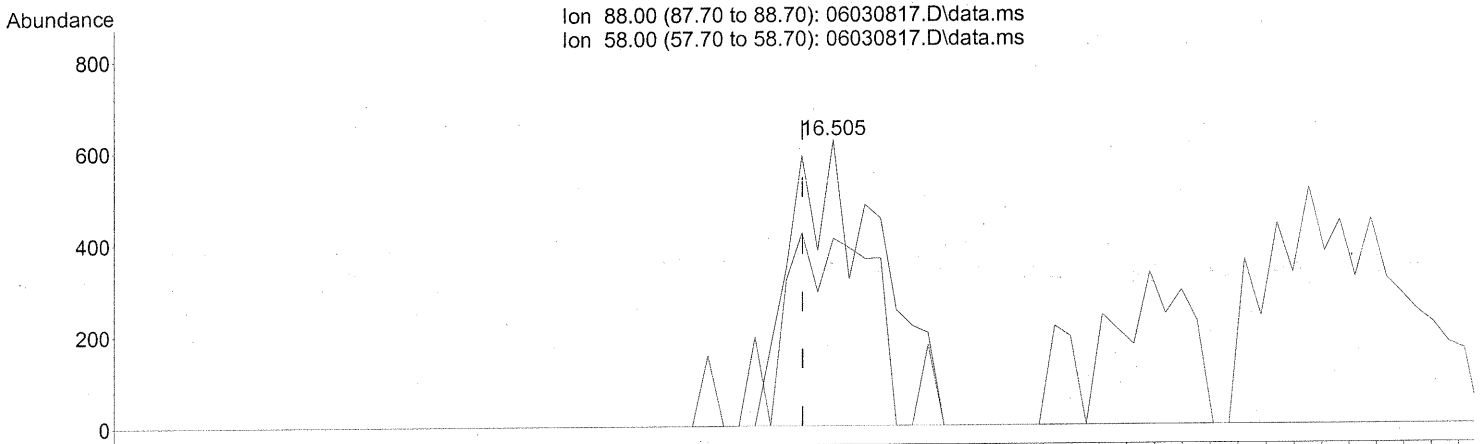
BEFORE SUBTRACTION

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	68.21#
0.00	0.00	0.00
0.00	0.00	0.00

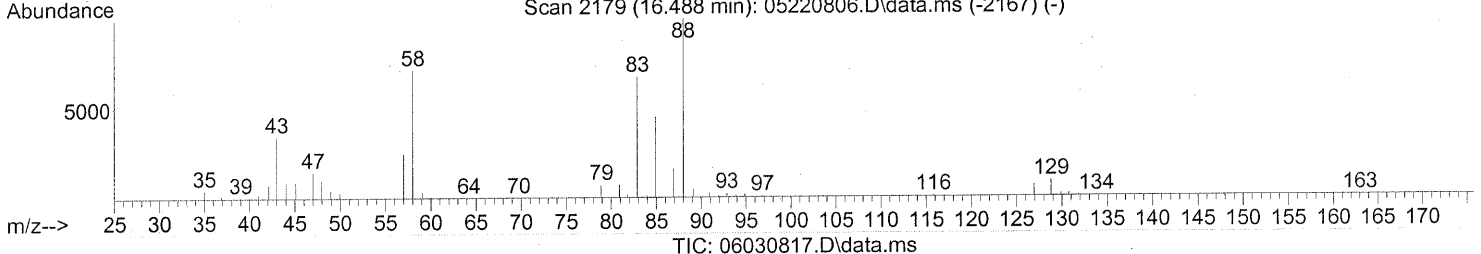
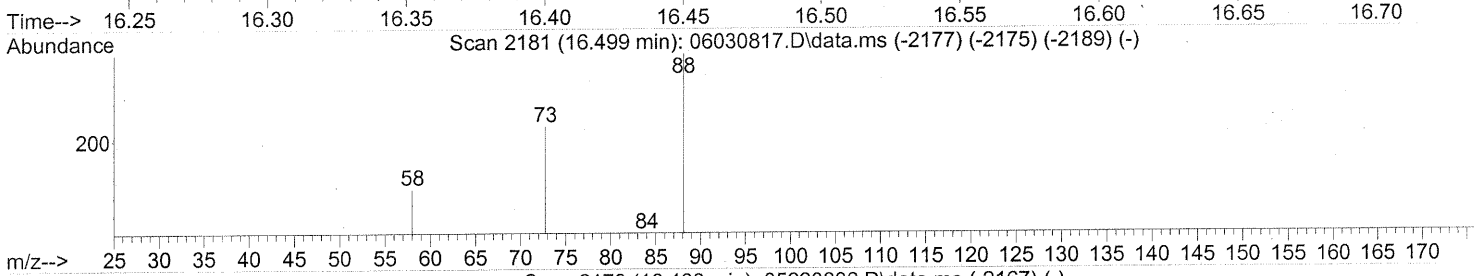
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Ion 88.00 (87.70 to 88.70): 06030817.D\data.ms  
 Ion 58.00 (57.70 to 58.70): 06030817.D\data.ms



(48) 1,4-Dioxane (T)  
 16.505min (+0.011) 0.10ng  
 response 1378

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	68.21#
0.00	0.00	0.00
0.00	0.00	0.00

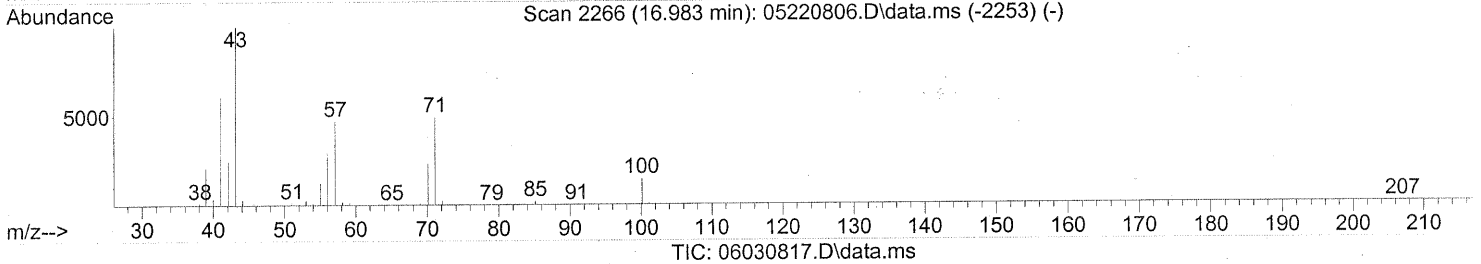
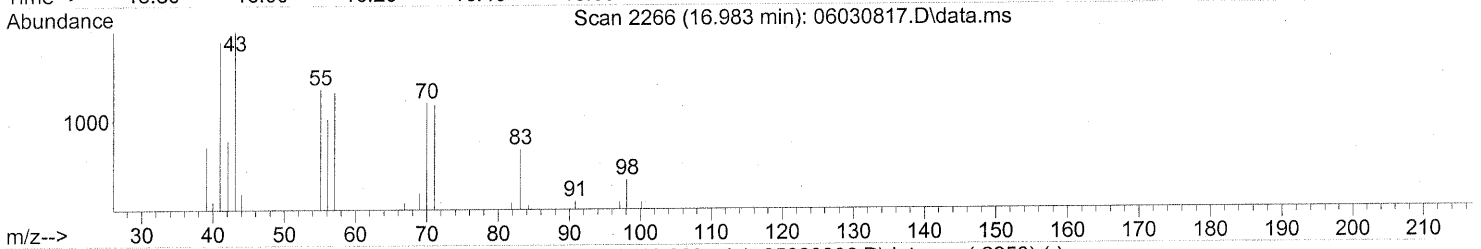
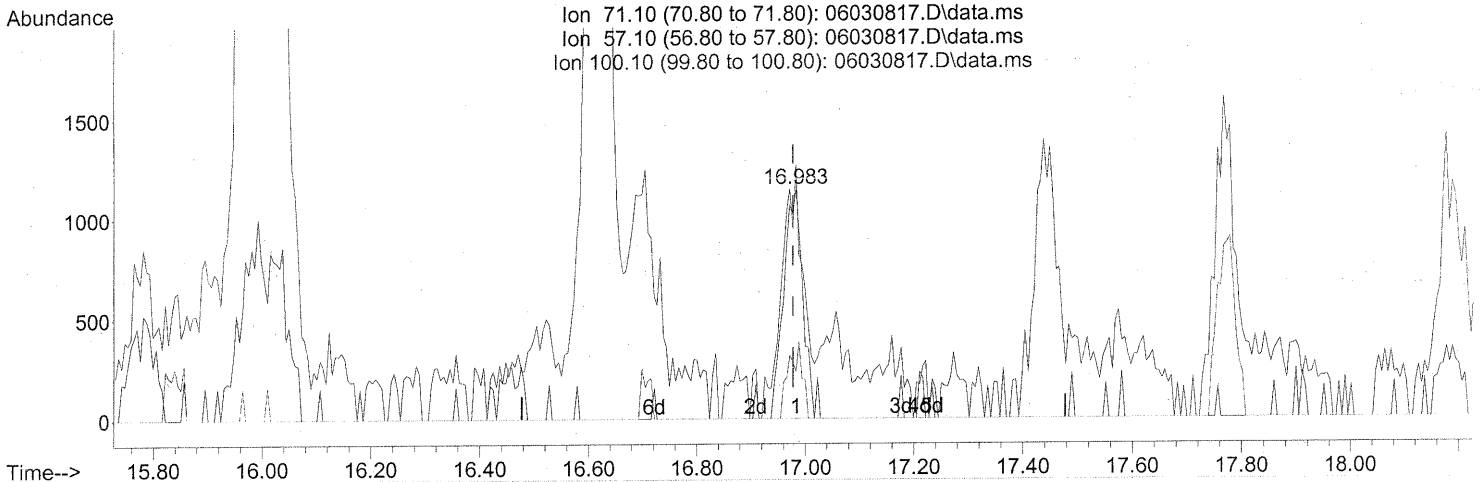
ATFER SUBTRACTION  
 P06/07/08  
 6/9/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



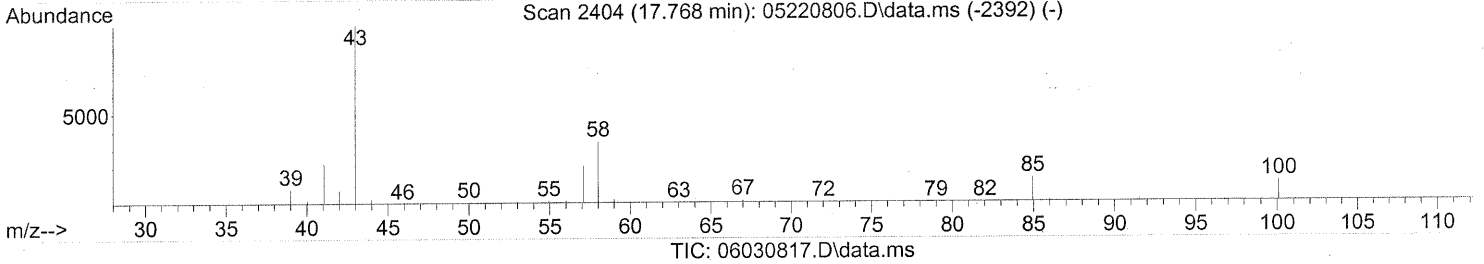
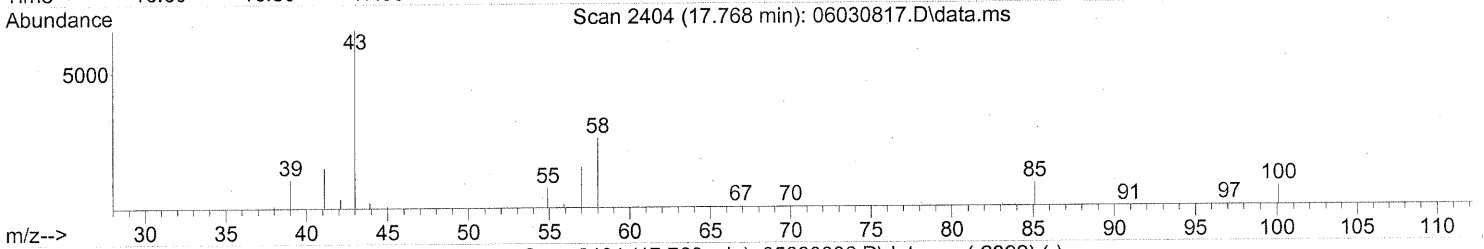
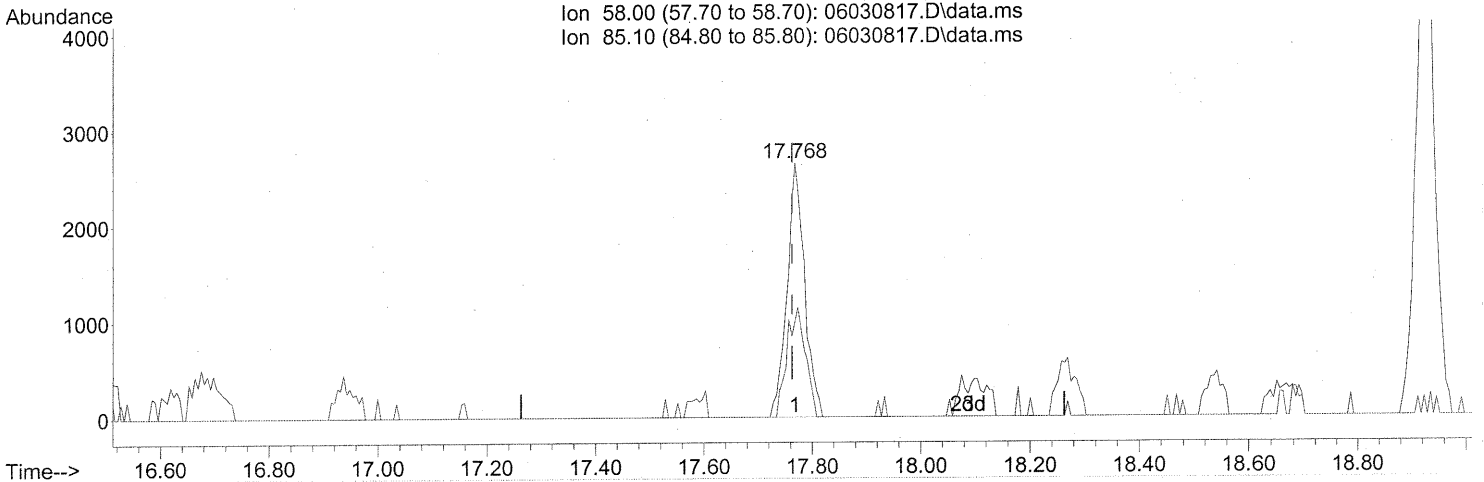
(51) n-Heptane (T)  
 16.983min (+0.006) 0.14ng  
 response 2793

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	129.11
100.10	30.10	24.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030817.D  
Acq On : 3 Jun 2008 9:05 pm  
Operator : RTB  
Sample : P0801548-019 (1000mL)  
Misc : ENSR SG87B-05 (-6.3, 3.5)  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.768min (+0.005) 0.29ng

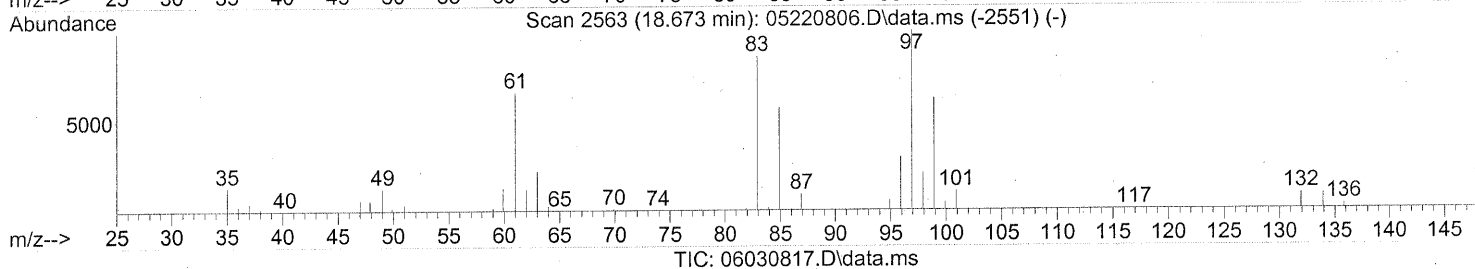
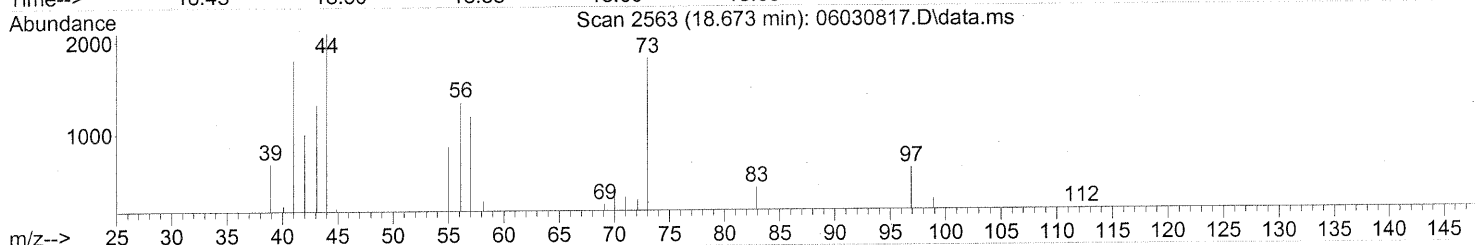
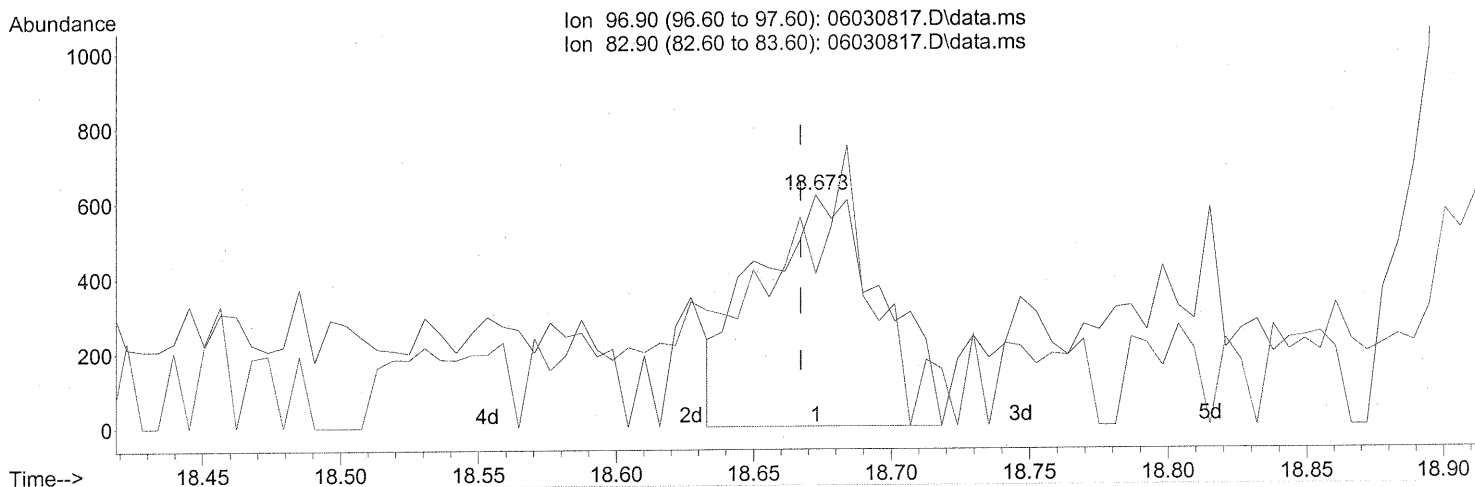
response 5955

Ion	Exp%	Act%
58.00	100	100
85.10	30.10	45.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.673min (+0.005) 0.10ng

response 1964

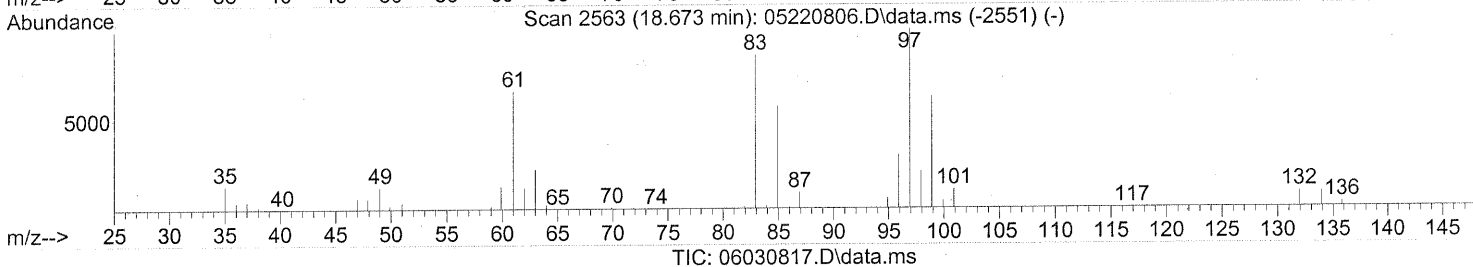
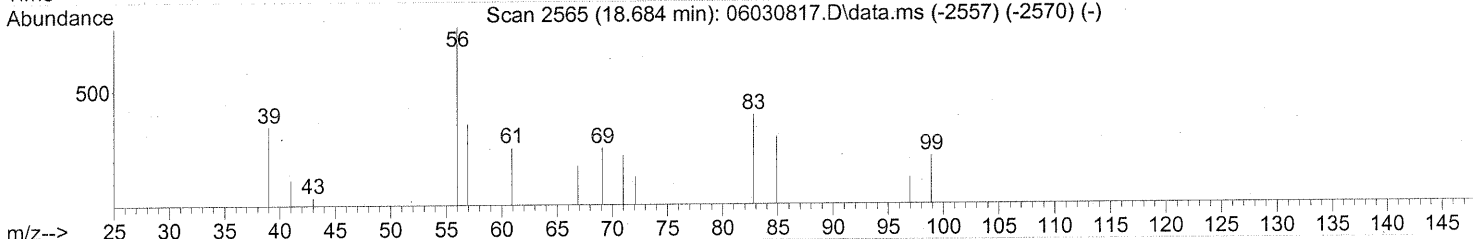
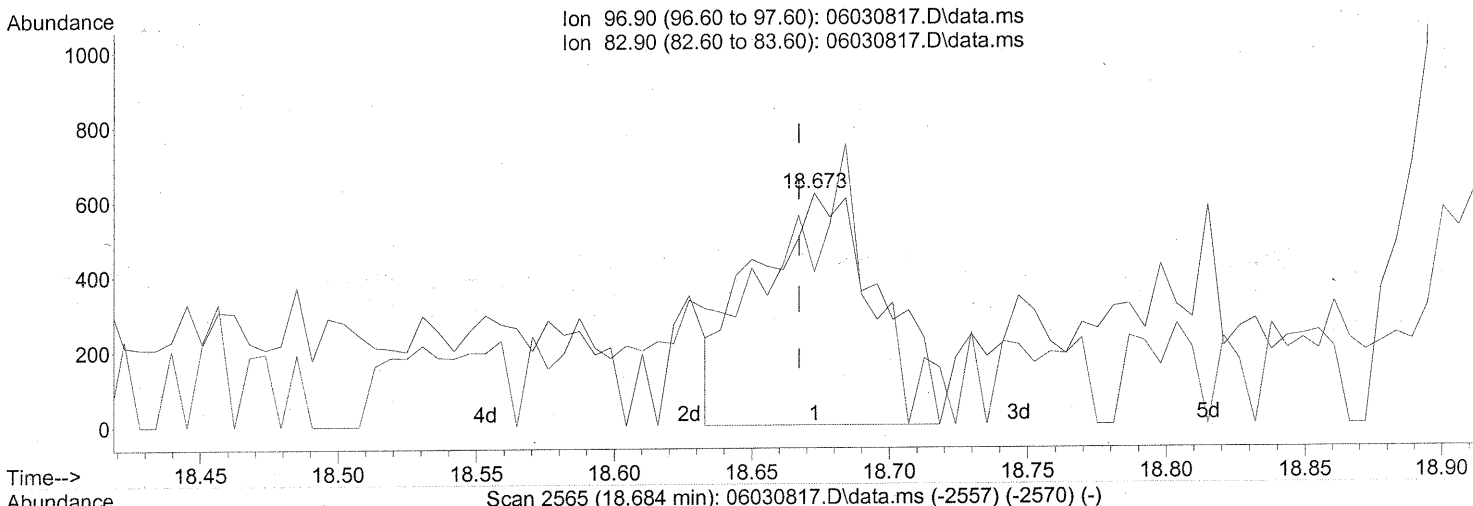
Ion	Exp%	Act%
96.90	100	100
82.90	84.80	111.46#
0.00	0.00	0.00
0.00	0.00	0.00

*BEFORE SUBTRACTION*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

18.673min (+0.005) 0.10ng

response 1964

Ion	Exp%	Act%
96.90	100	100
82.90	84.80	111.46#
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

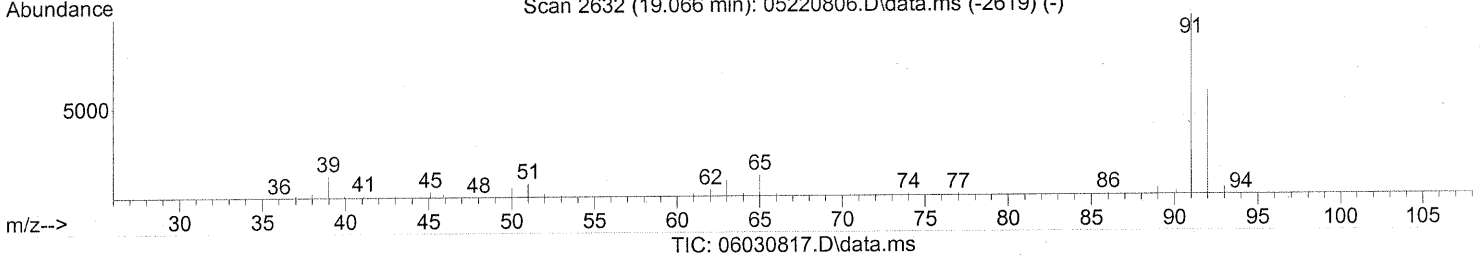
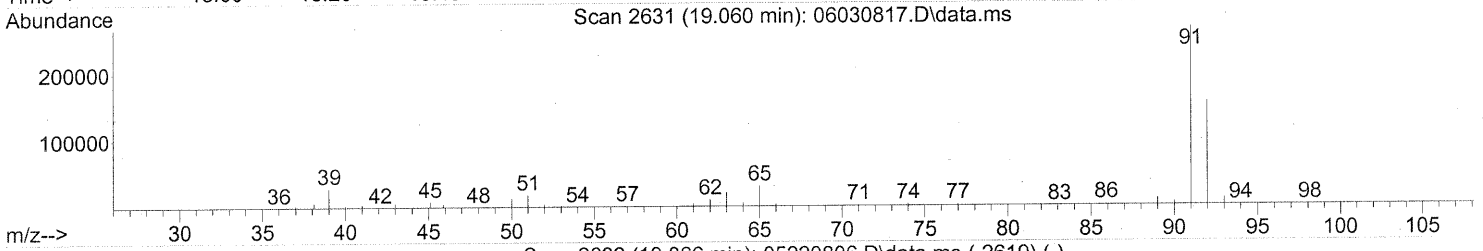
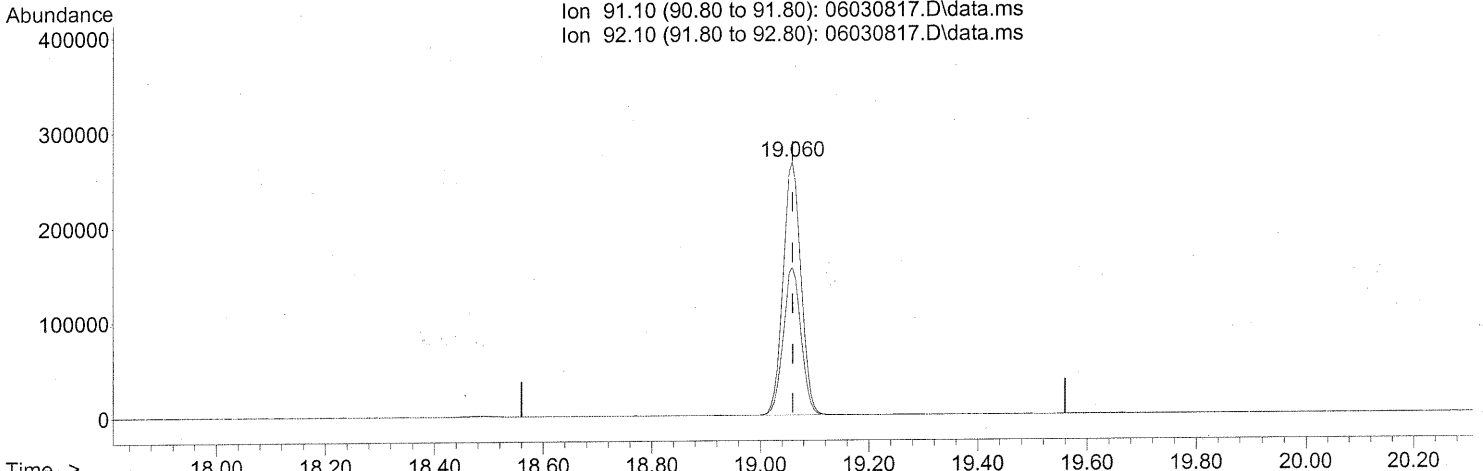
*Handwritten signature*  
6/8/08

*Handwritten signature*  
6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(58) Toluene (T)

19.060min (-0.000) 7.24ng

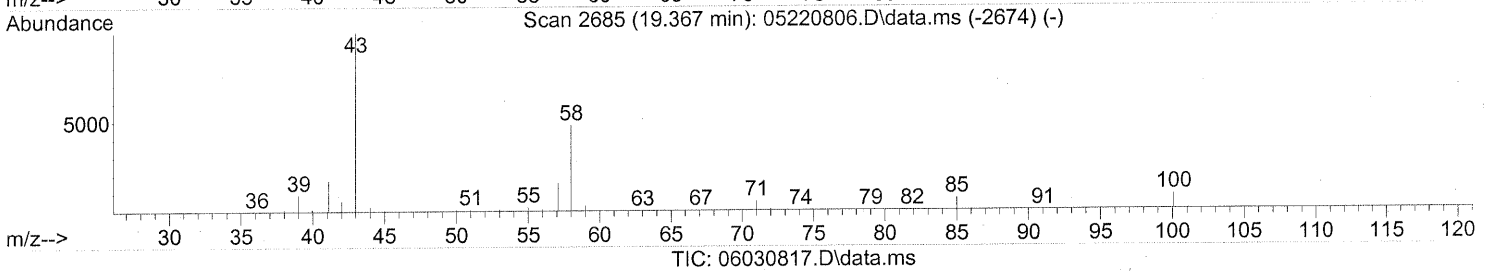
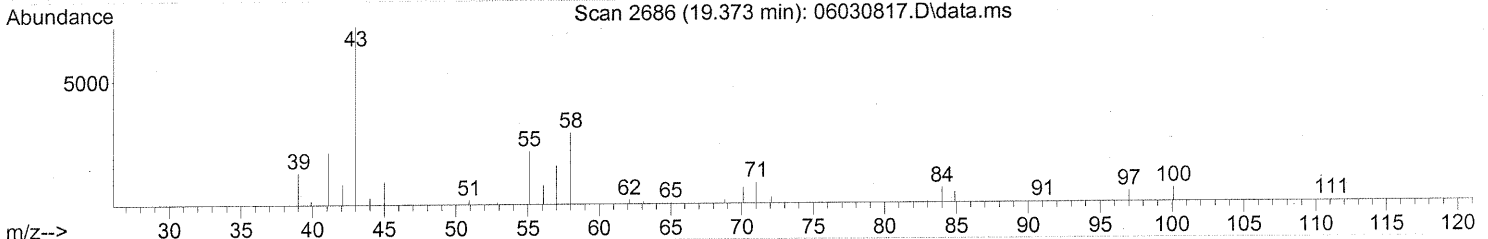
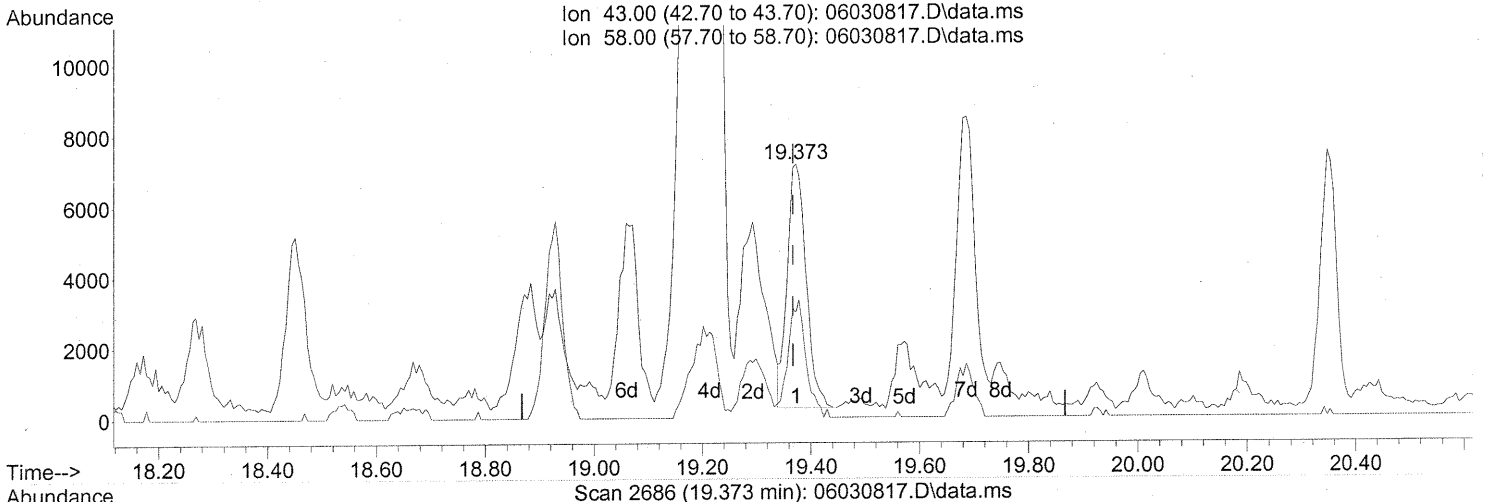
response 615512

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.83
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(59) 2-Hexanone (T)  
 19.373min (+0.005) 0.28ng

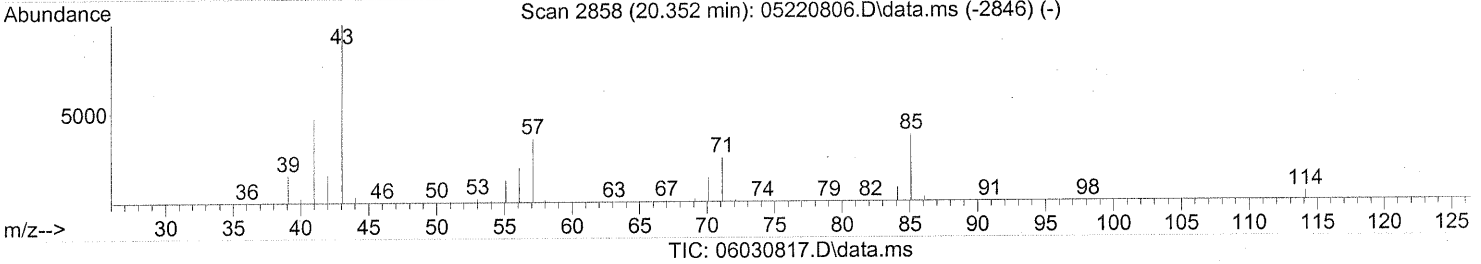
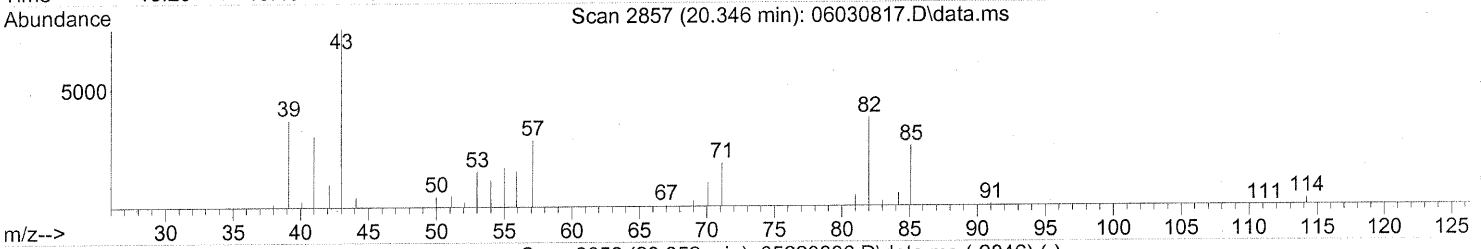
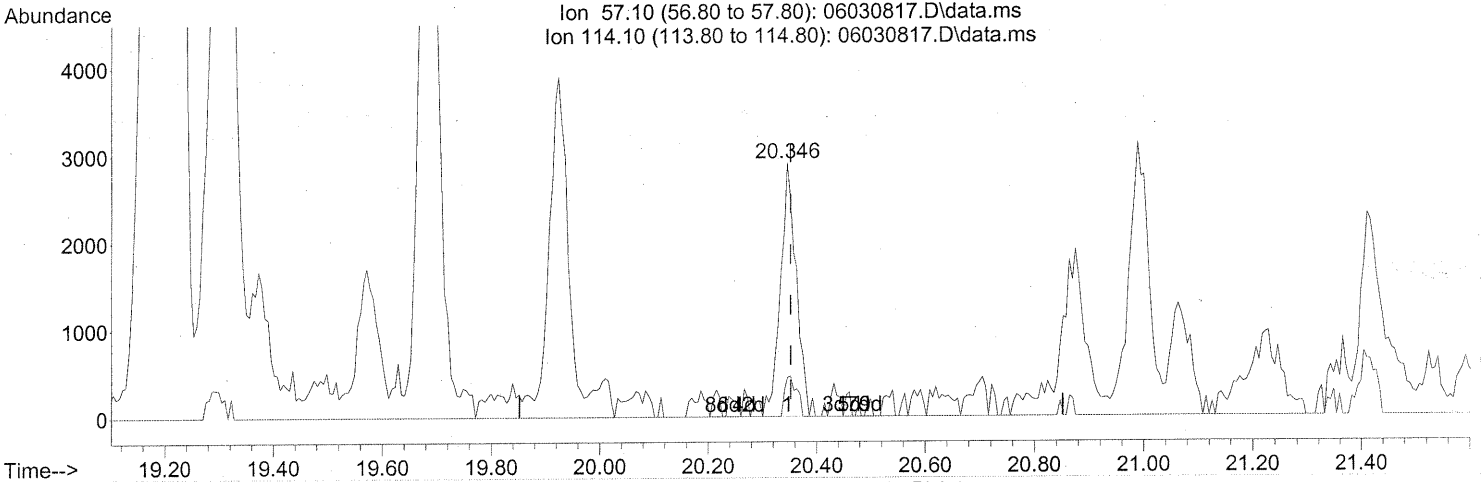
response 16634

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	46.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(63) n-Octane (T)

20.346min (-0.006) 0.31ng

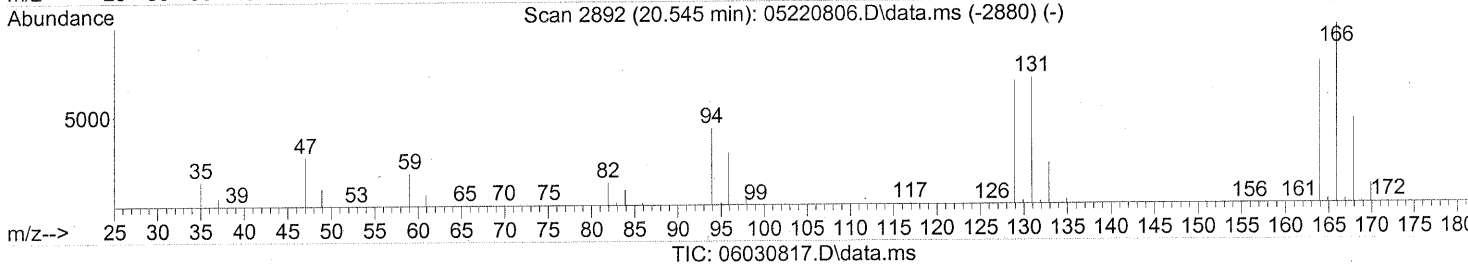
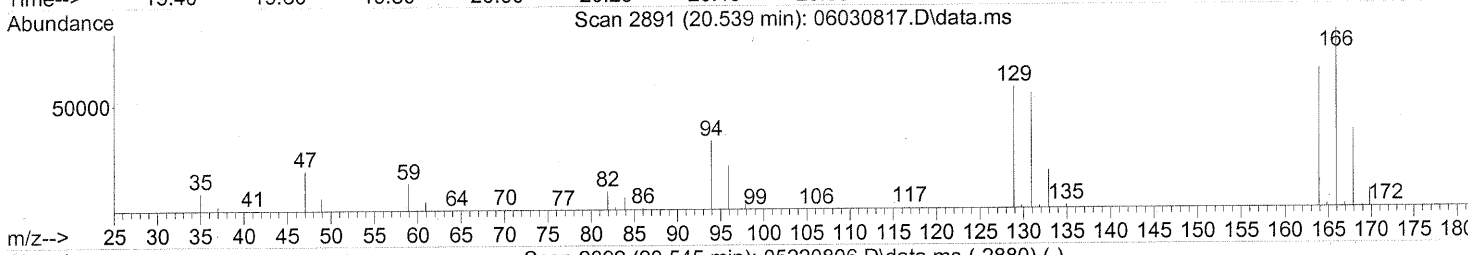
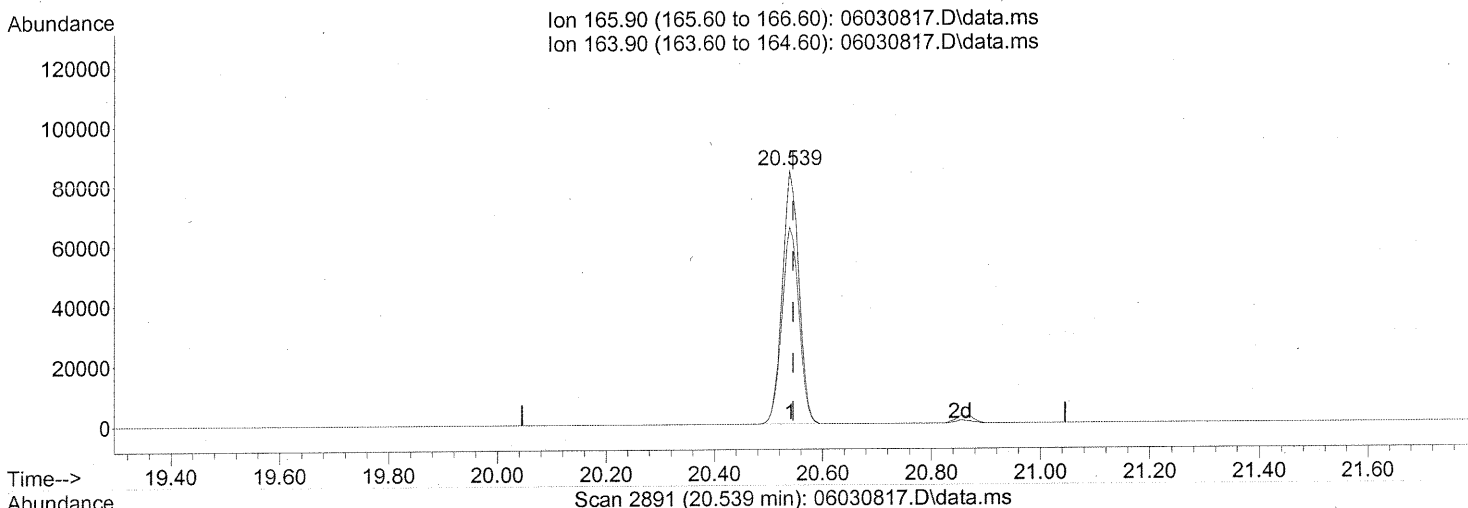
response 5911

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	12.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.539min (-0.006) 7.23ng

response 181938

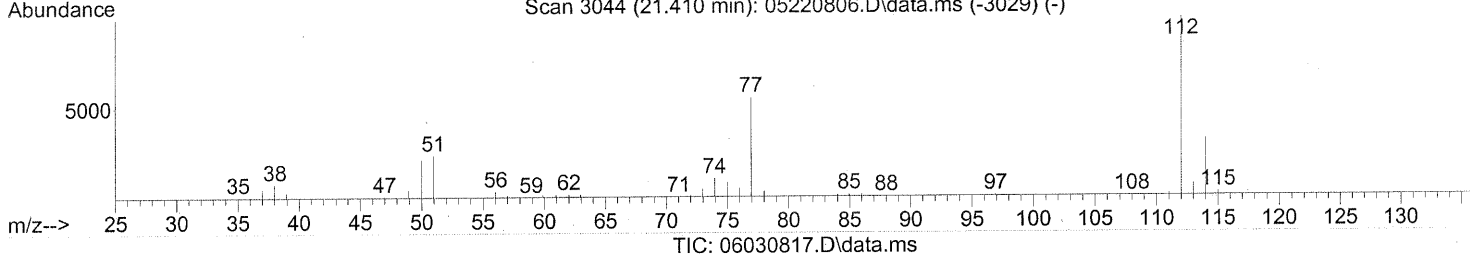
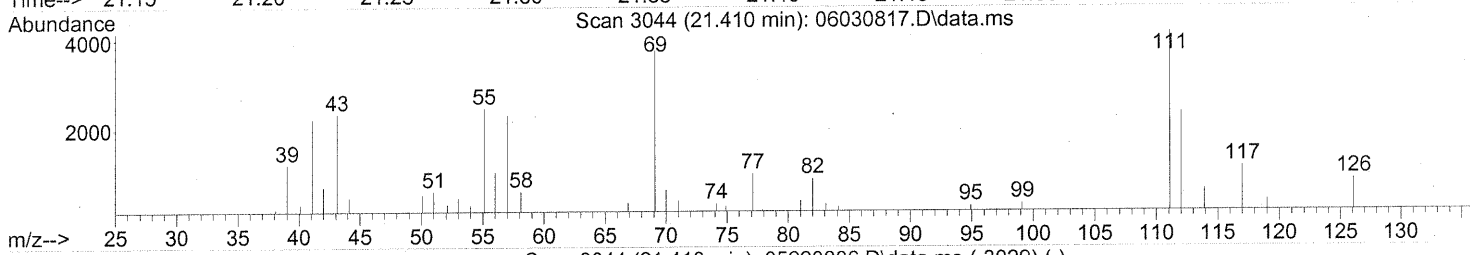
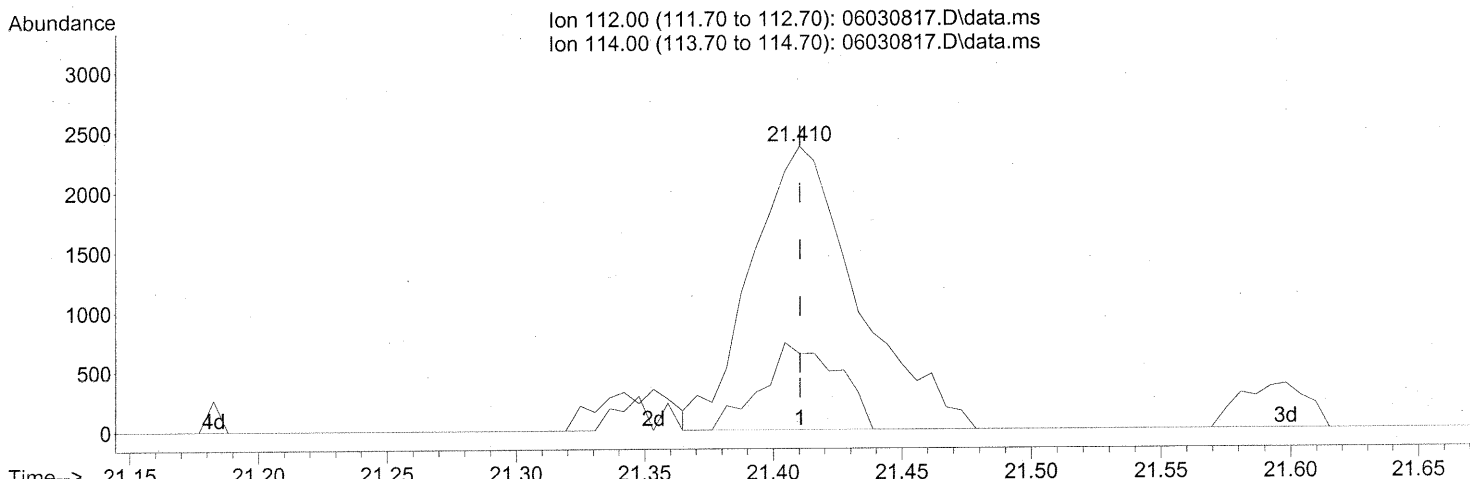
Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.72
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(65) Chlorobenzene (T)

21.410min (-0.000) 0.12ng

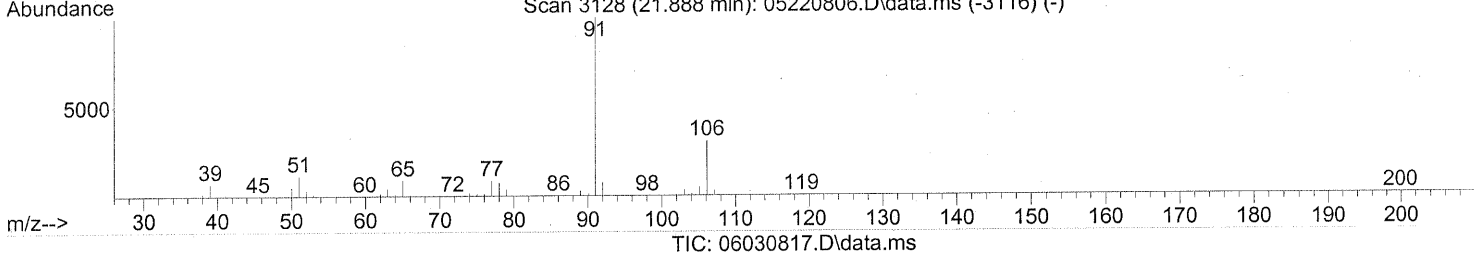
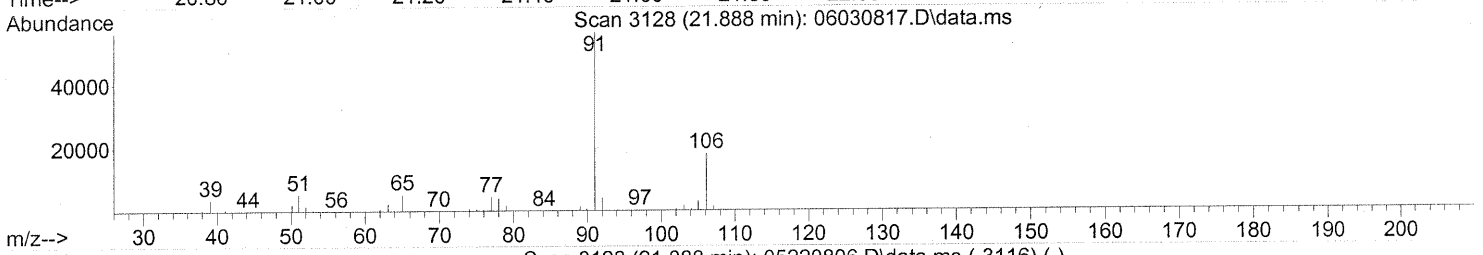
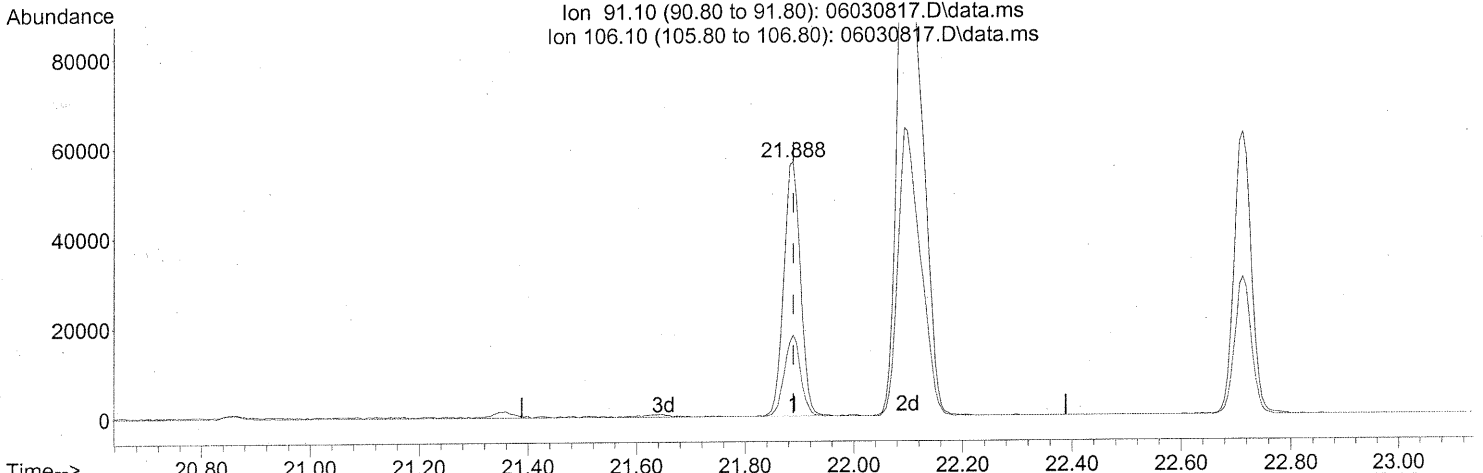
response 6765

Ion	Exp%	Act%
112.00	100	100
114.00	32.40	21.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(66) Ethylbenzene (T)

21.888min (-0.000) 1.24ng

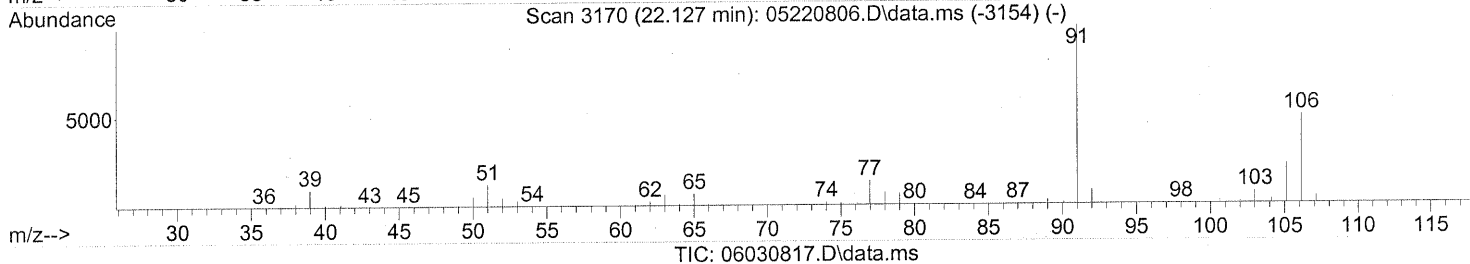
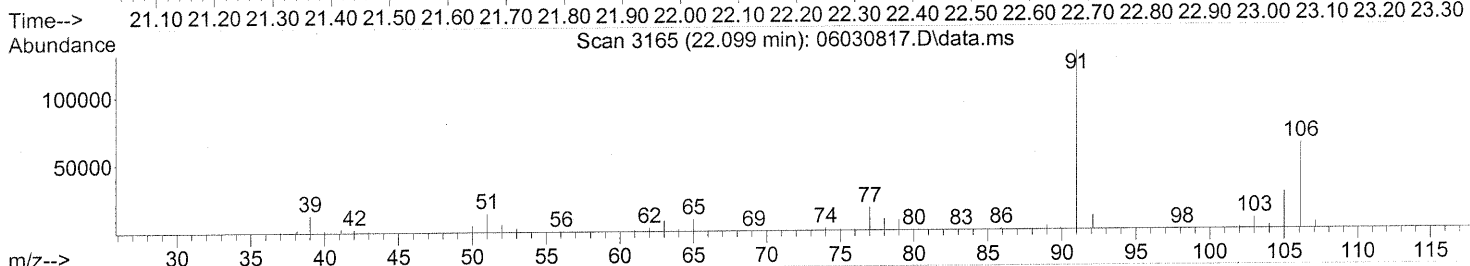
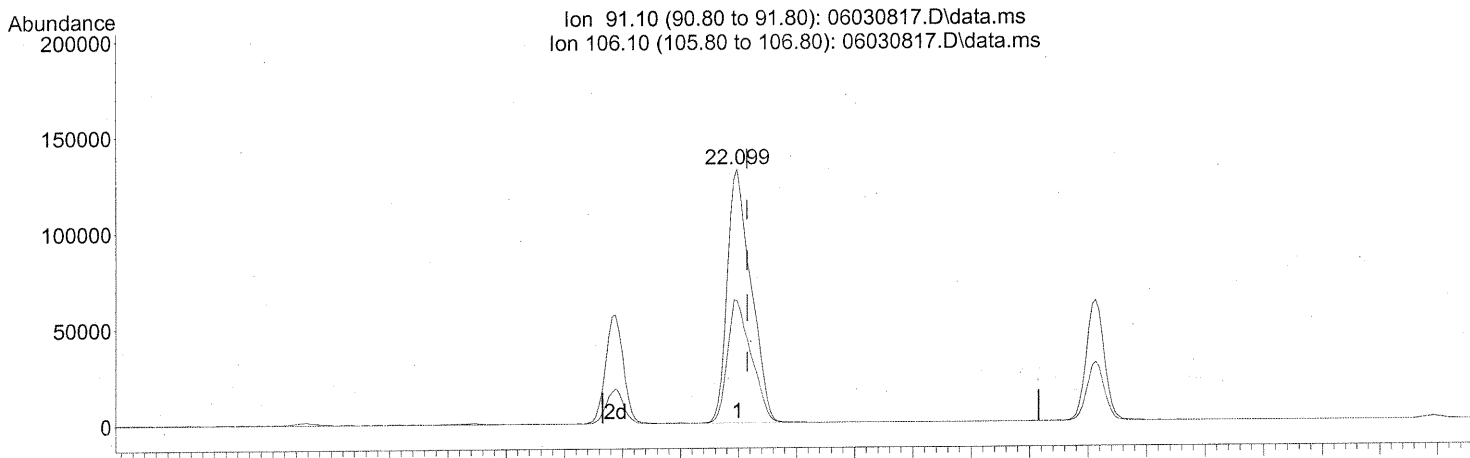
response 121104

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	31.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.099min (-0.017) 5.77ng

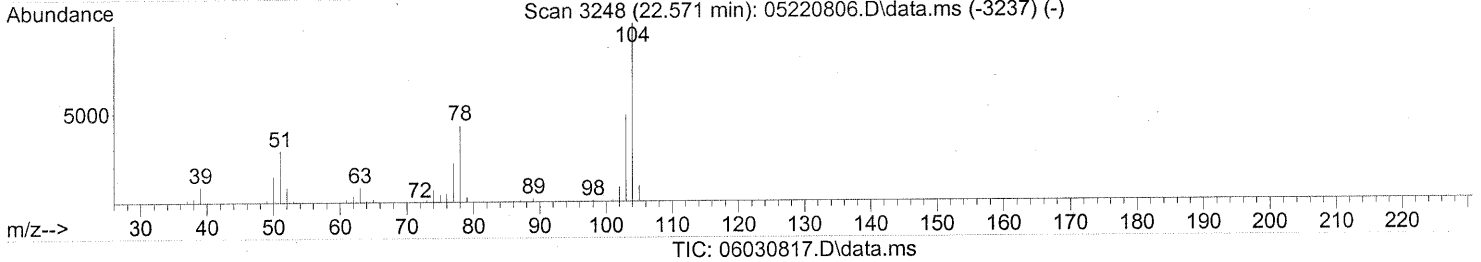
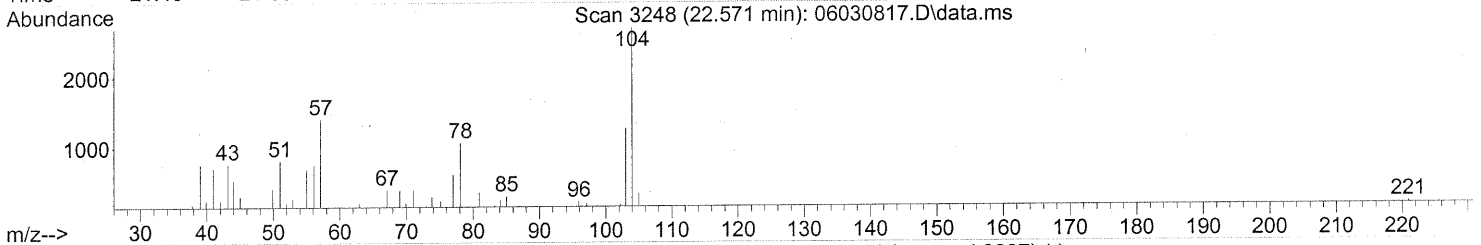
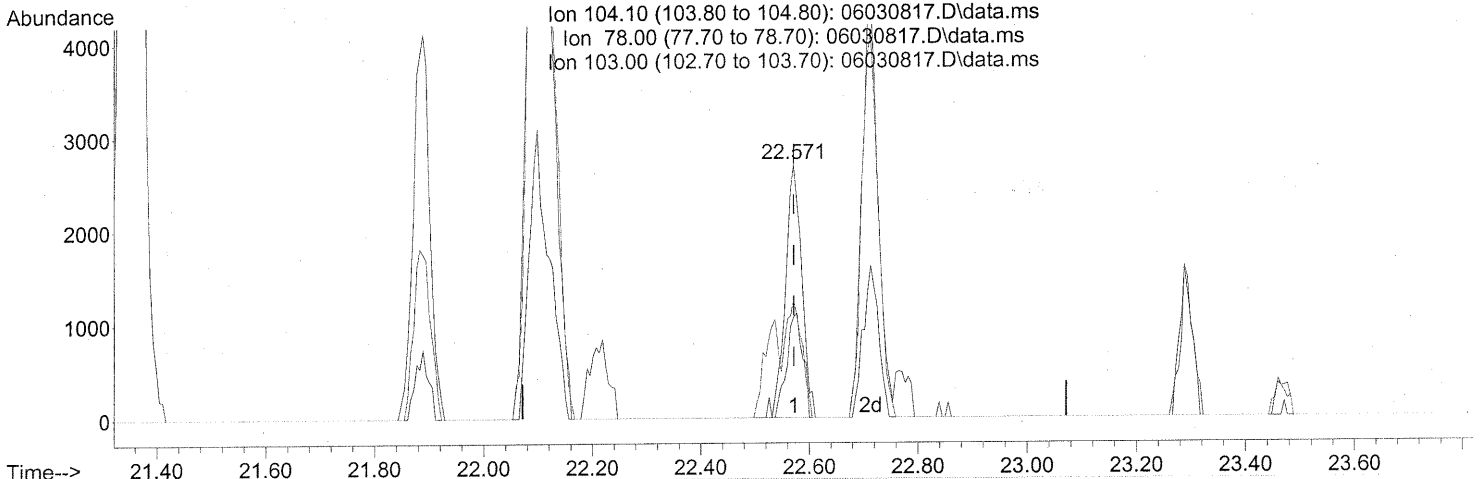
response 376368

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(69) Styrene (T)

22.571min (-0.000) 0.10ng

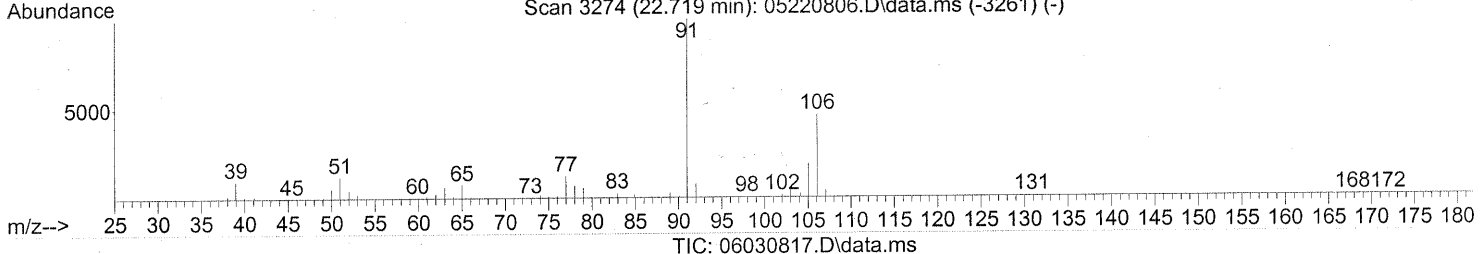
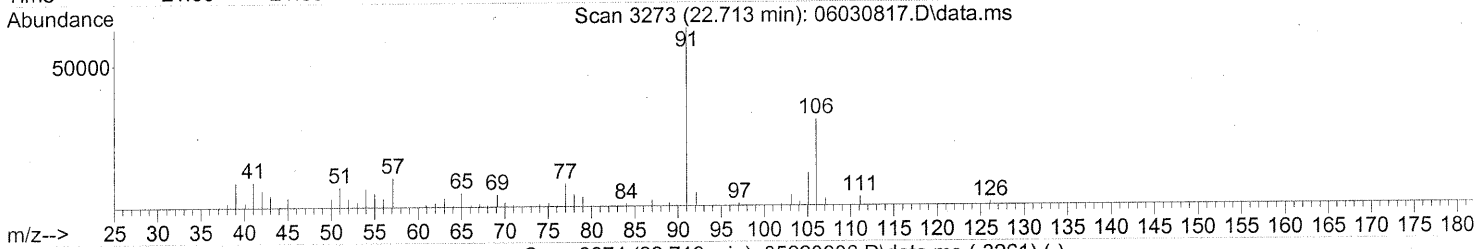
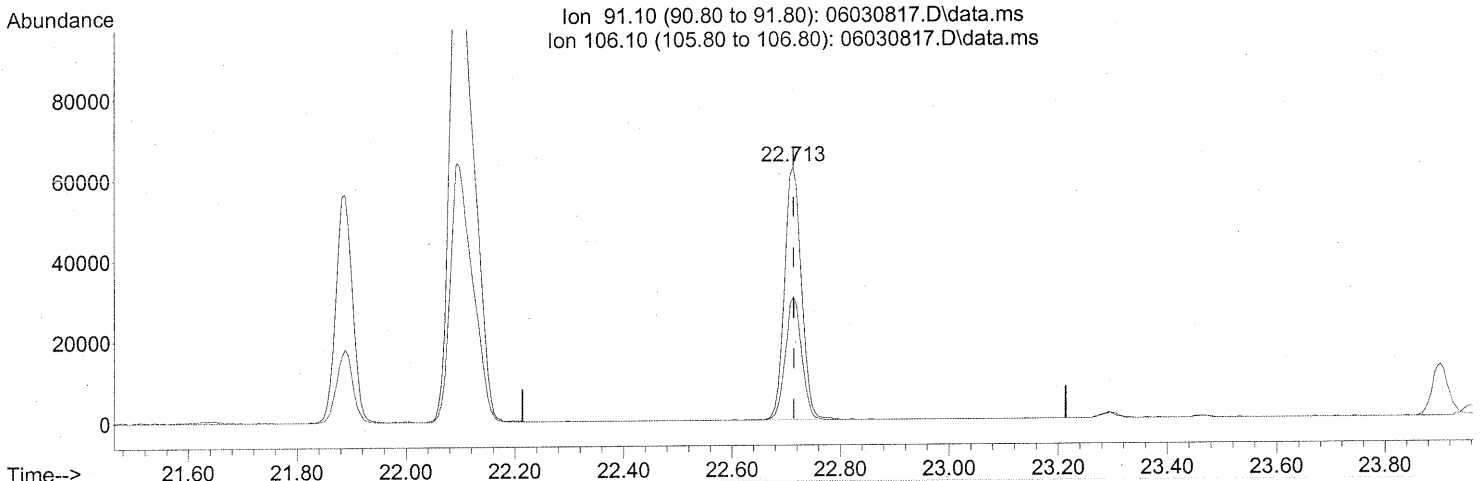
response 5641

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	40.08
103.00	47.10	45.38
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.713min (-0.000) 1.92ng

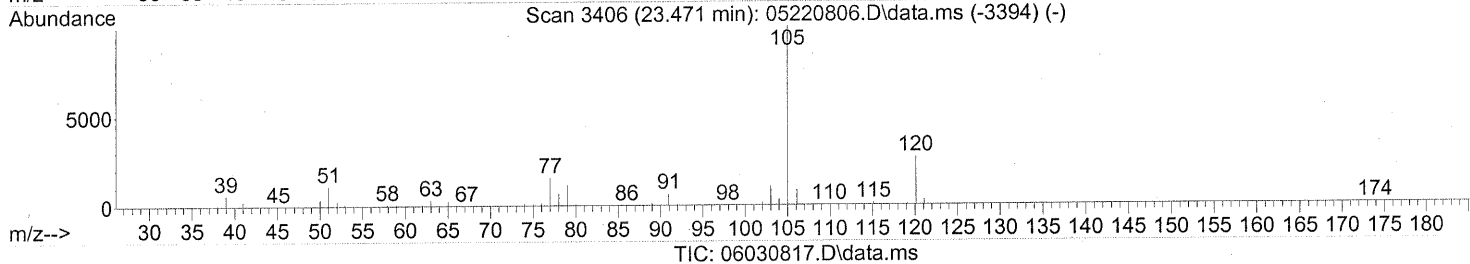
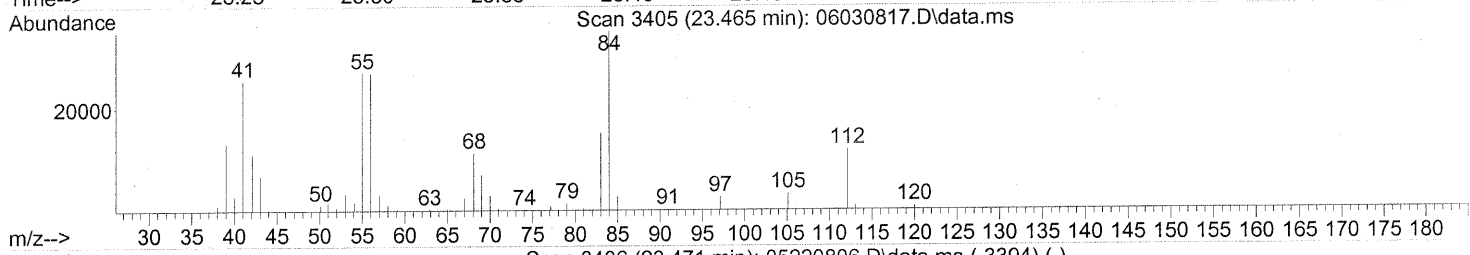
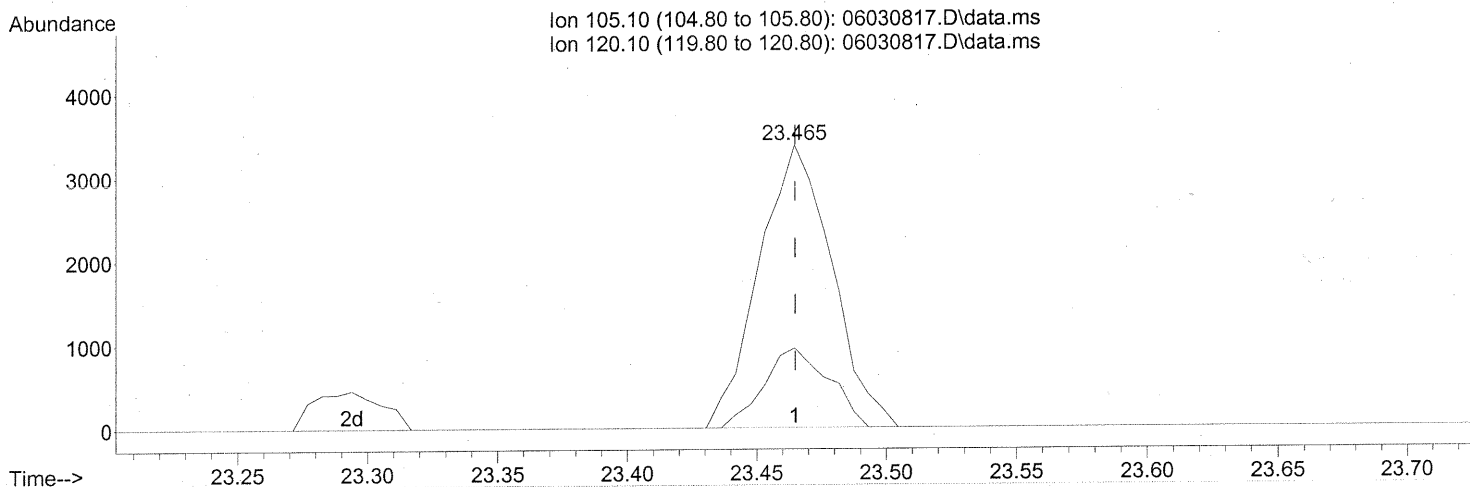
response 135161

Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.07ng

response 6566

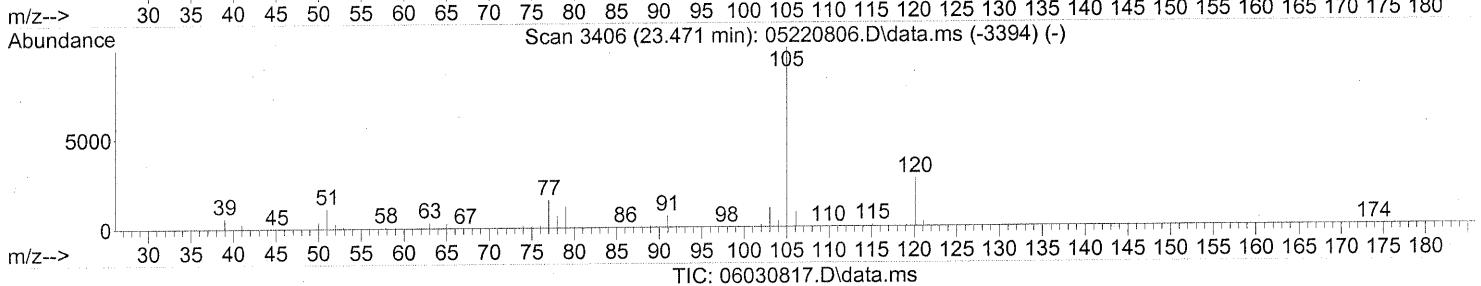
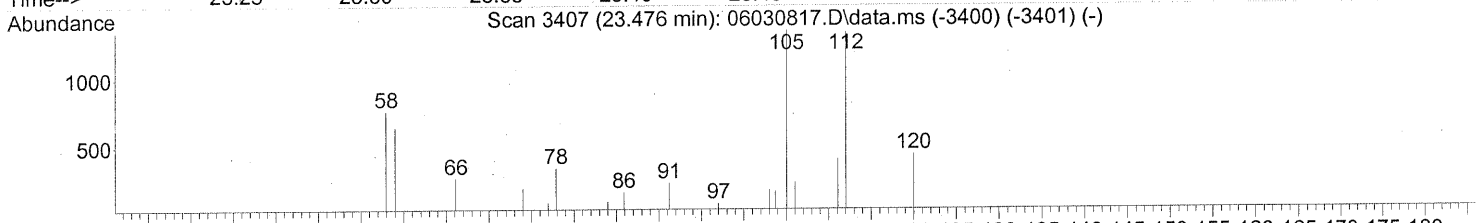
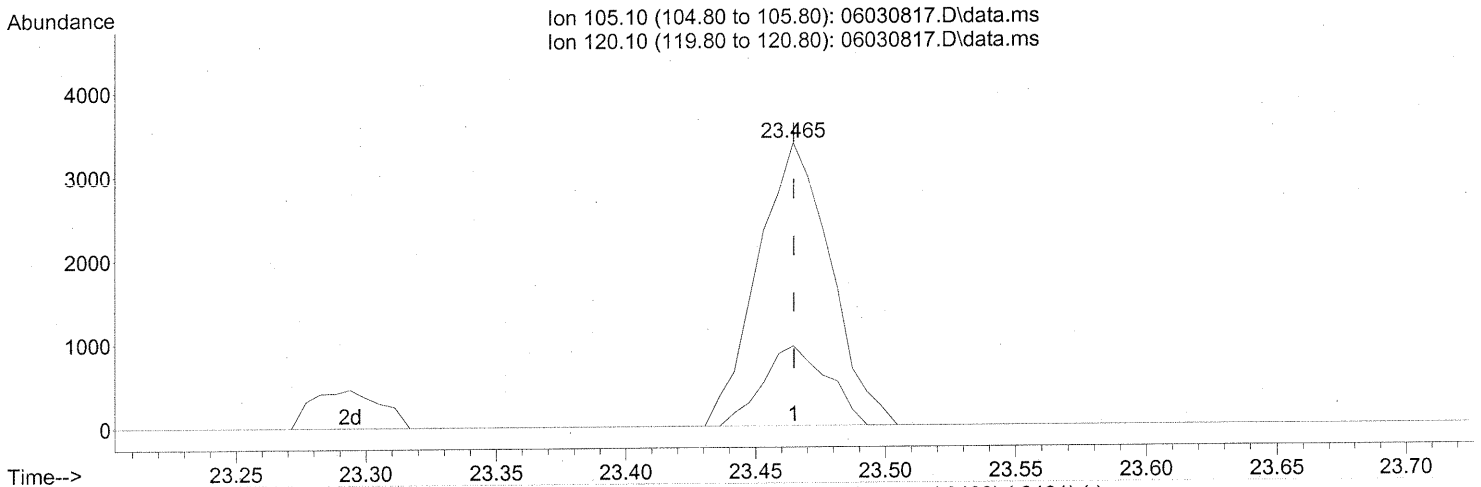
Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.07
0.00	0.00	0.00
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.465min (-0.000) 0.07ng

response 6566

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	25.07
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

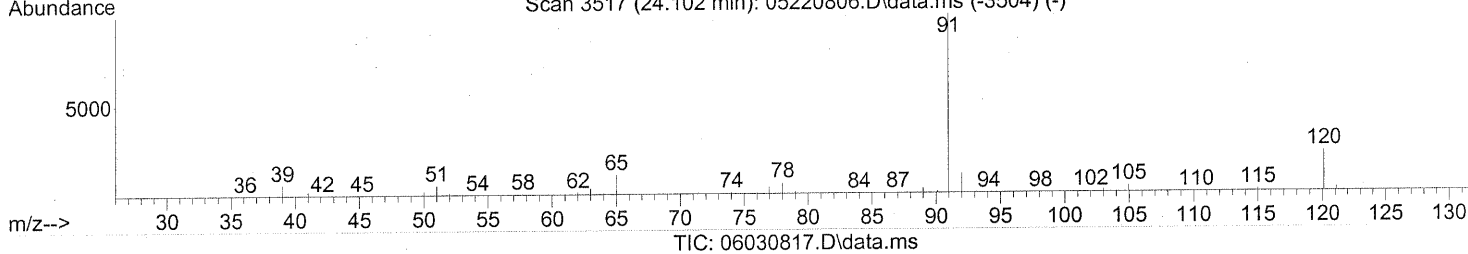
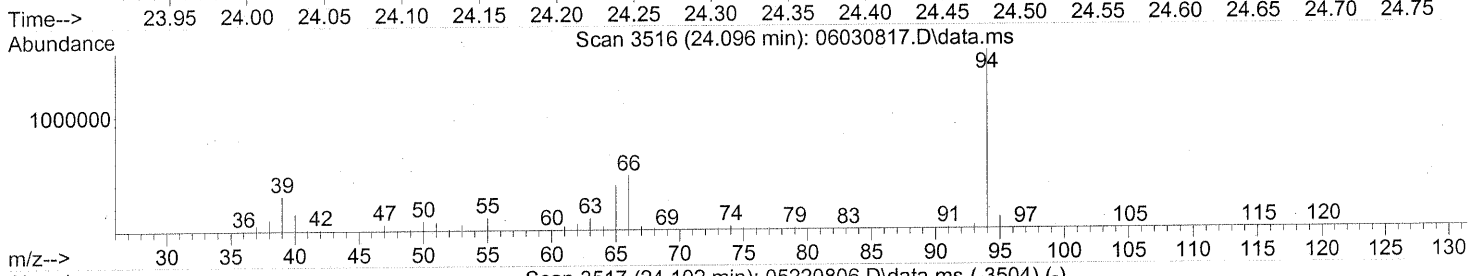
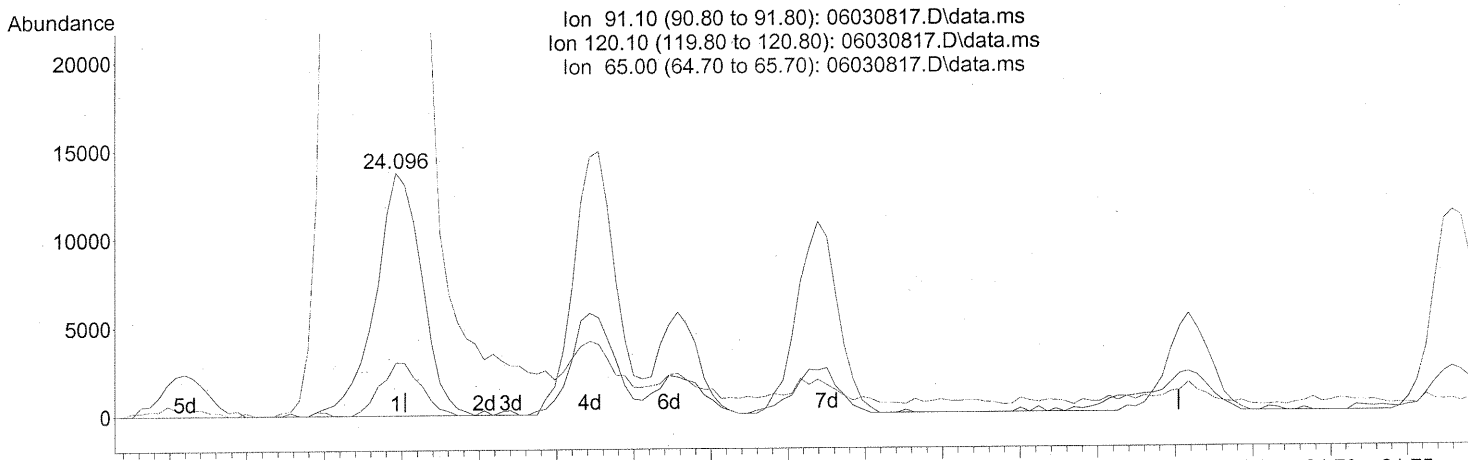
P 06/08/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.24ng

response 28624

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.94
65.00	11.40	4008.44#
0.00	0.00	0.00

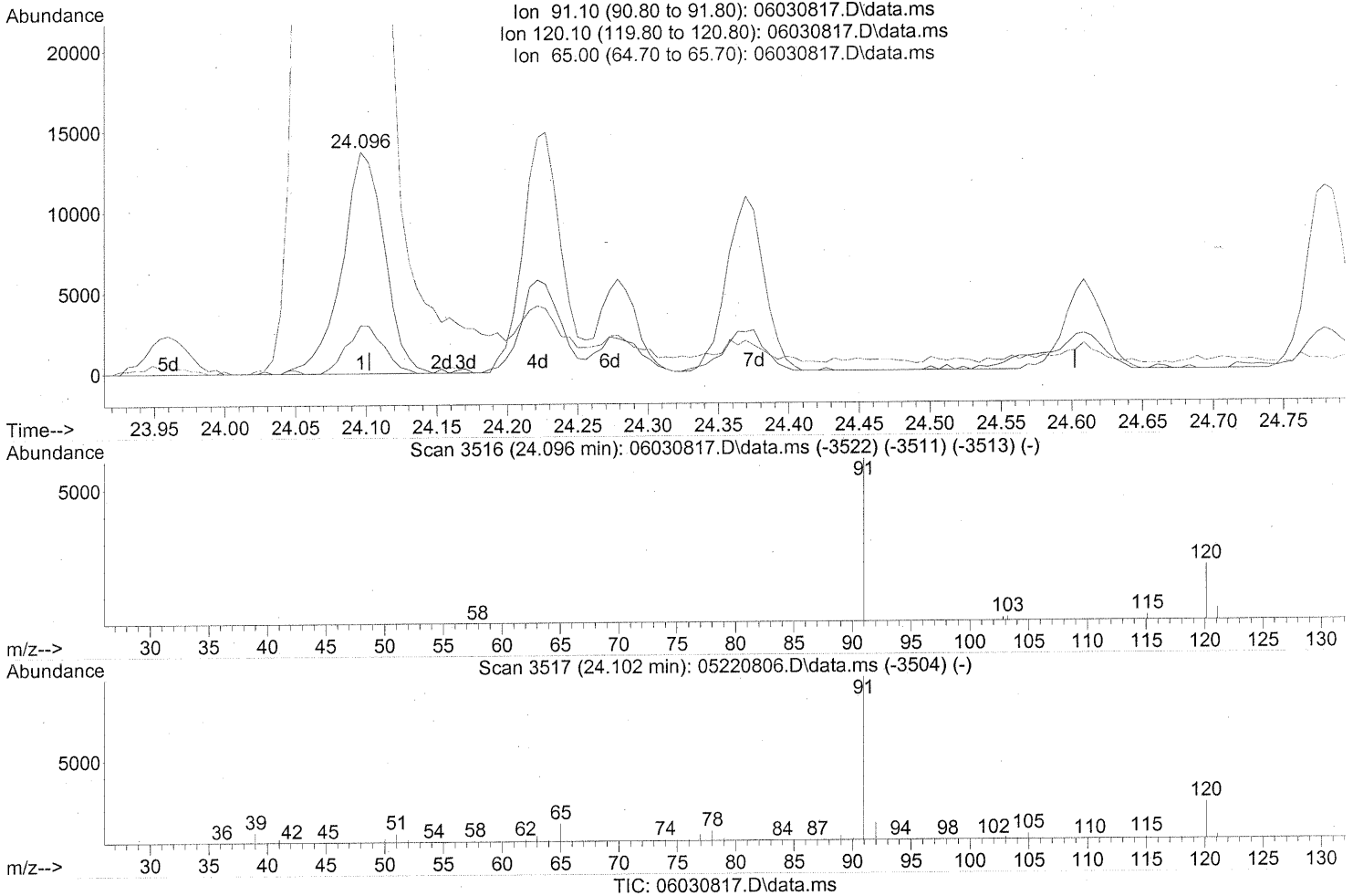
**BEFORE SUBTRACTION**



Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.096min (-0.006) 0.24ng

response 28624

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	18.94
65.00	11.40	4008.44#
0.00	0.00	0.00

AFTER SUBTRACTION

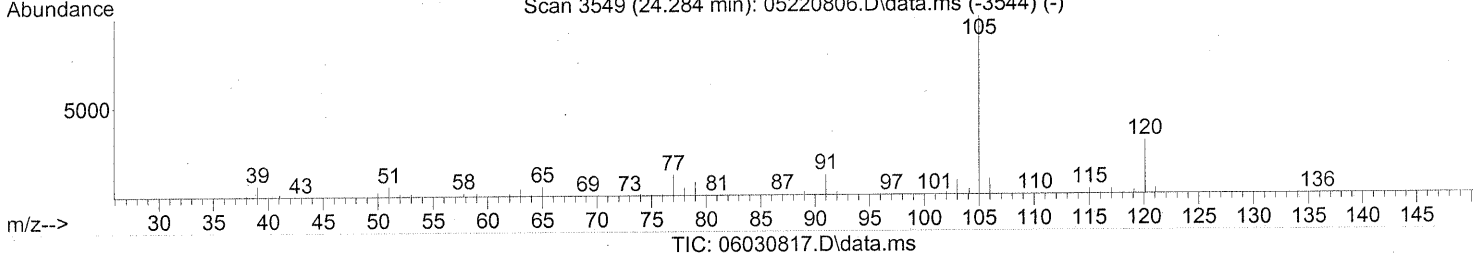
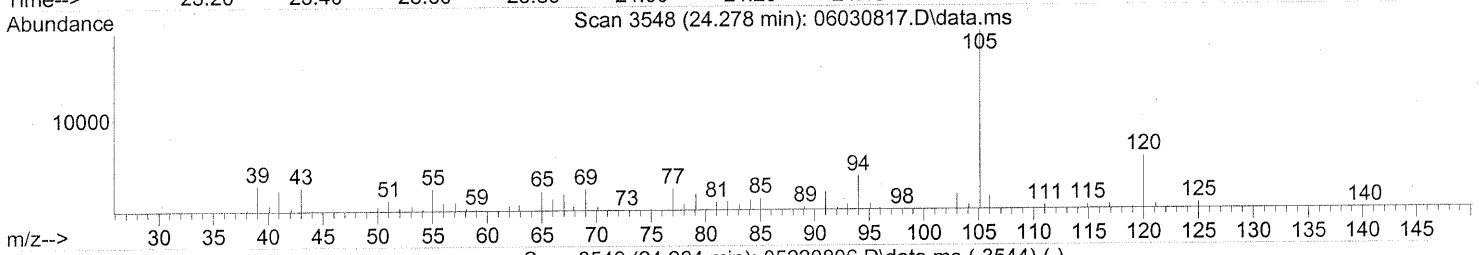
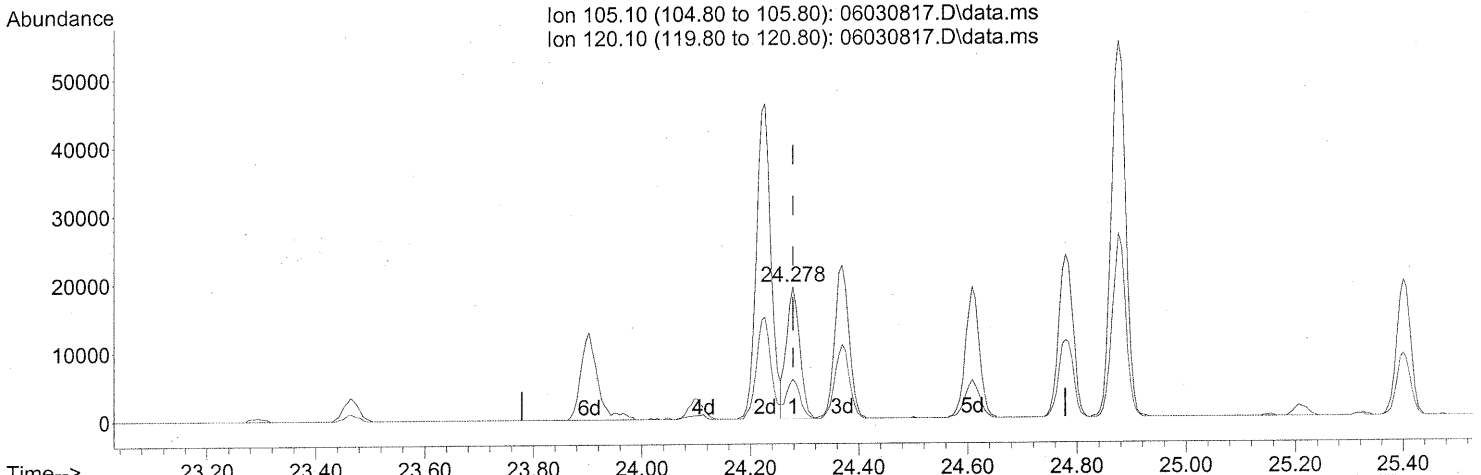
6/6/08/18

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(78) 4-Ethyltoluene (T)

24.278min (-0.000) 0.35ng

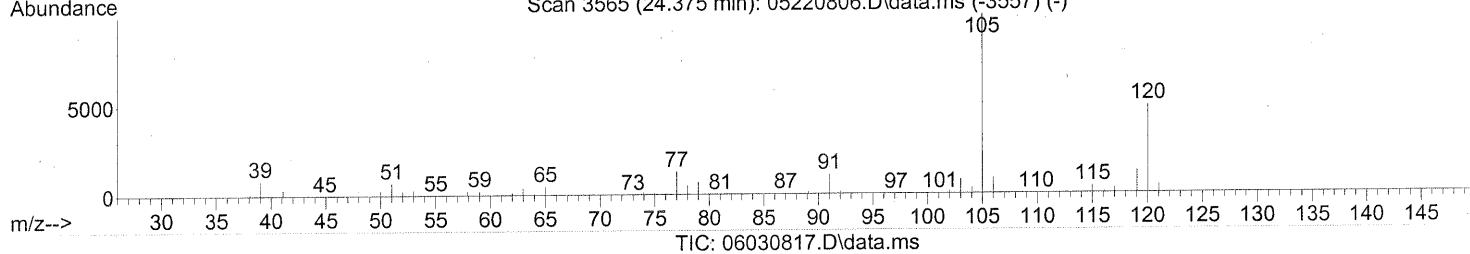
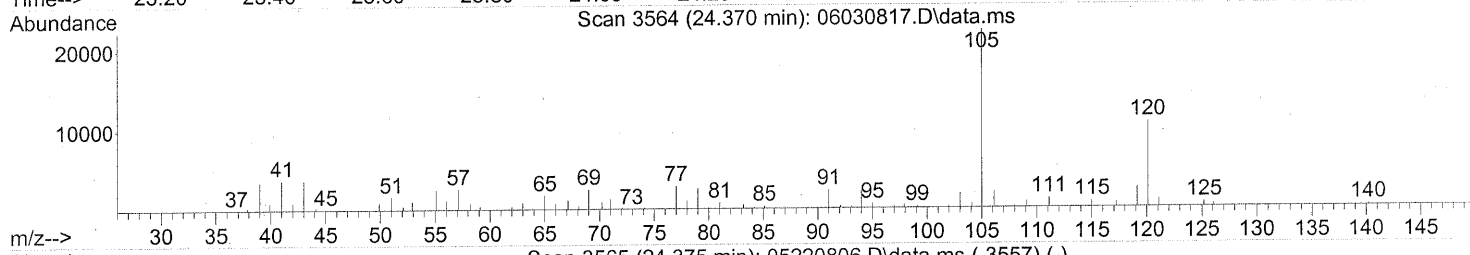
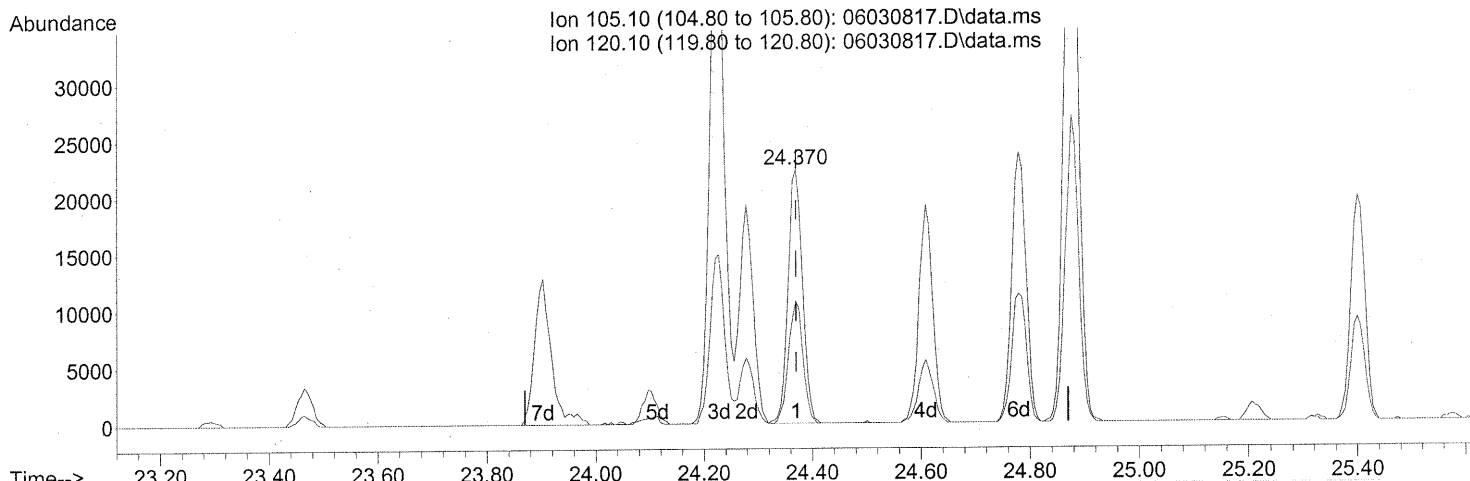
response 32909

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	30.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (-0.000) 0.49ng

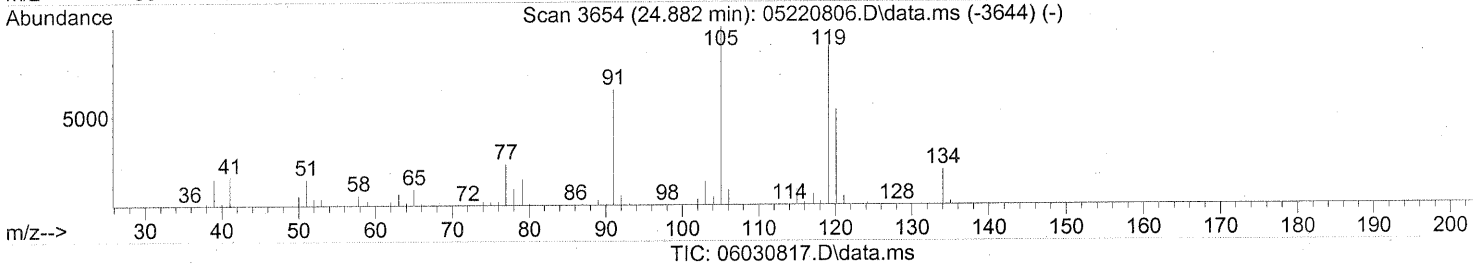
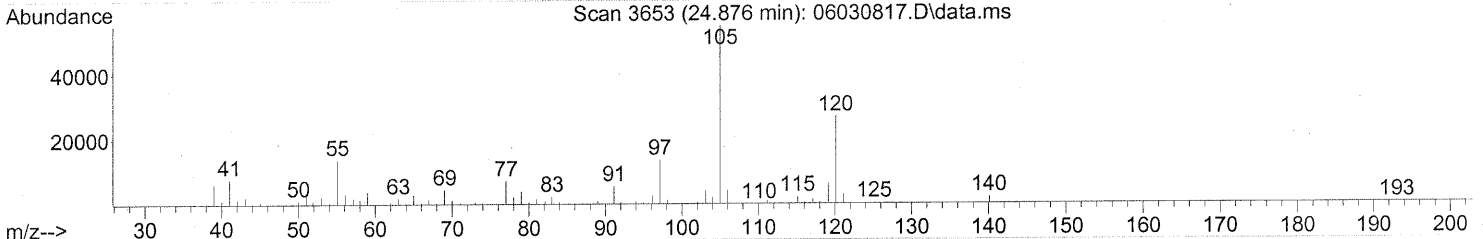
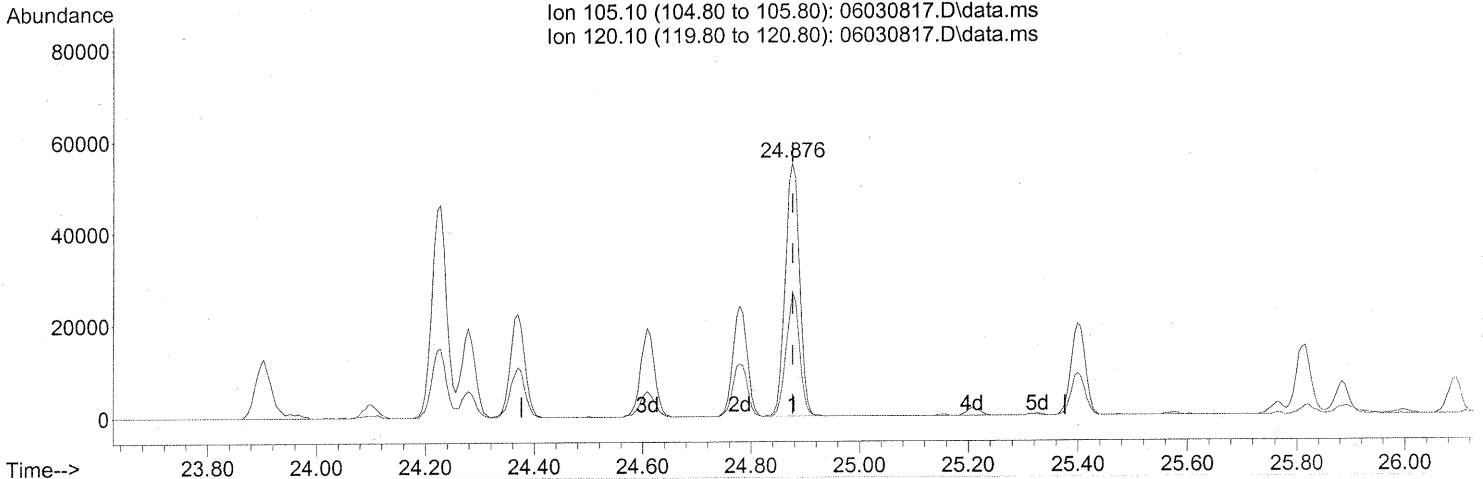
response 41445

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	48.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (-0.000) 1.18ng

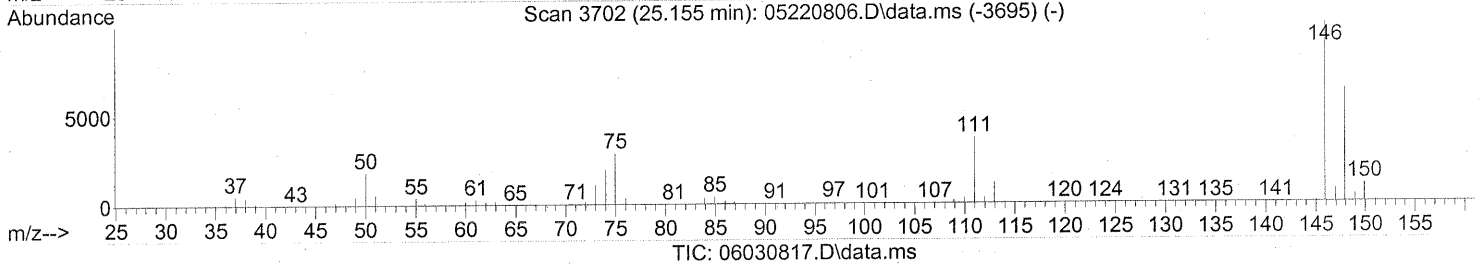
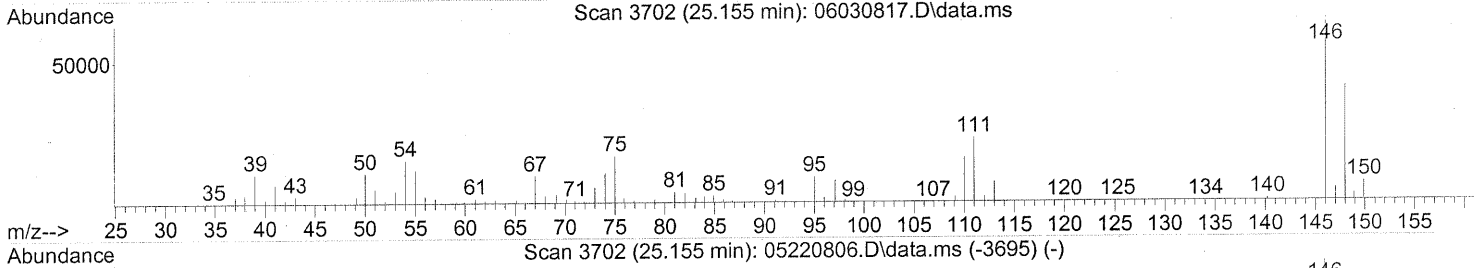
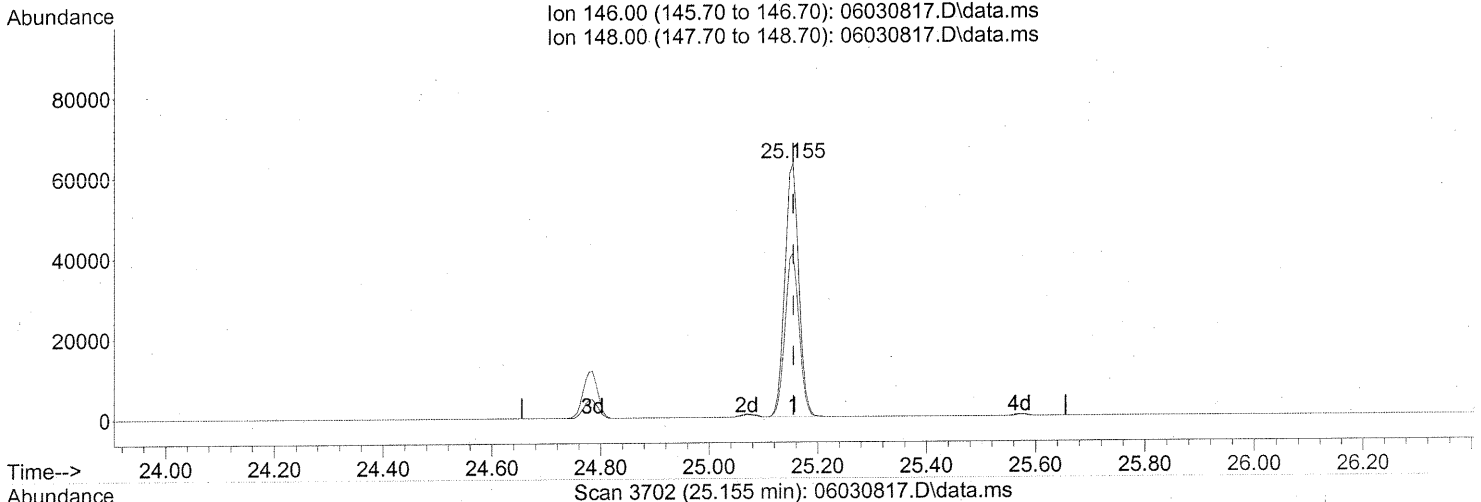
response 101111

Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (-0.000) 2.17ng

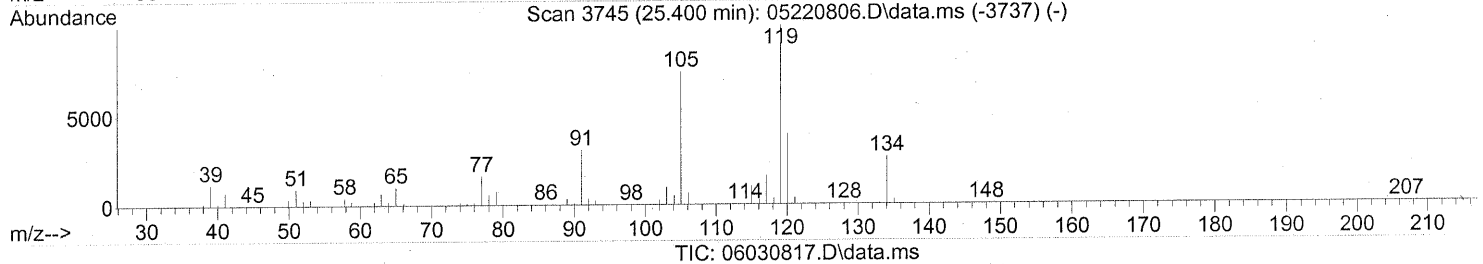
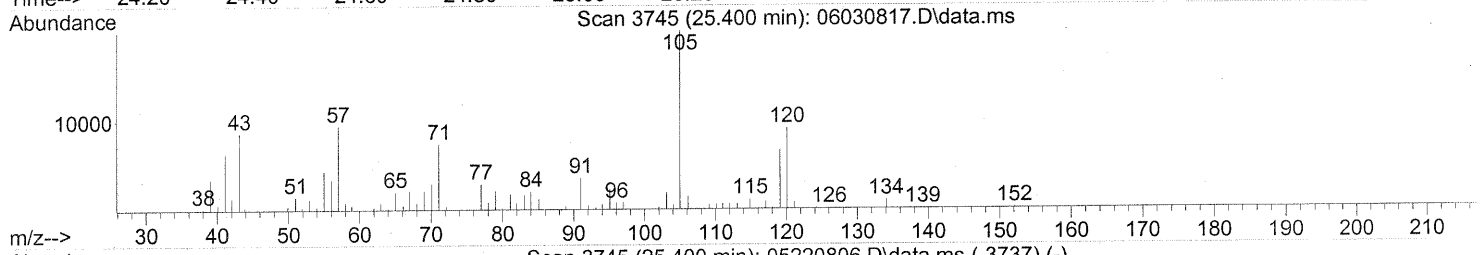
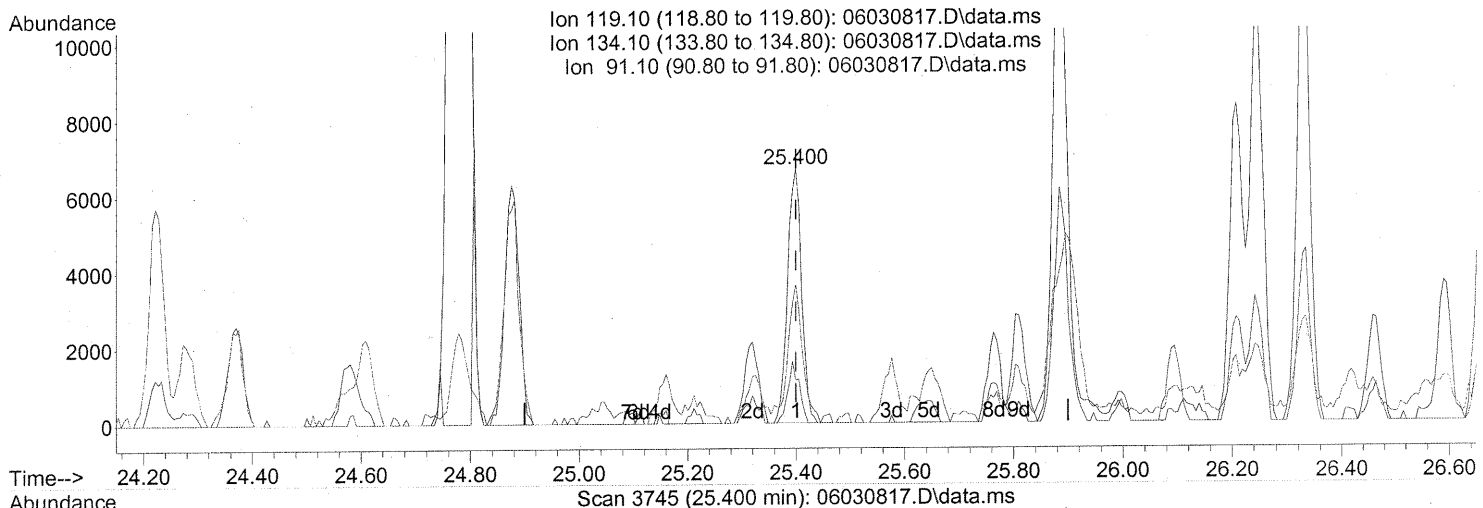
response 112672

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	65.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (-0.000) 0.13ng

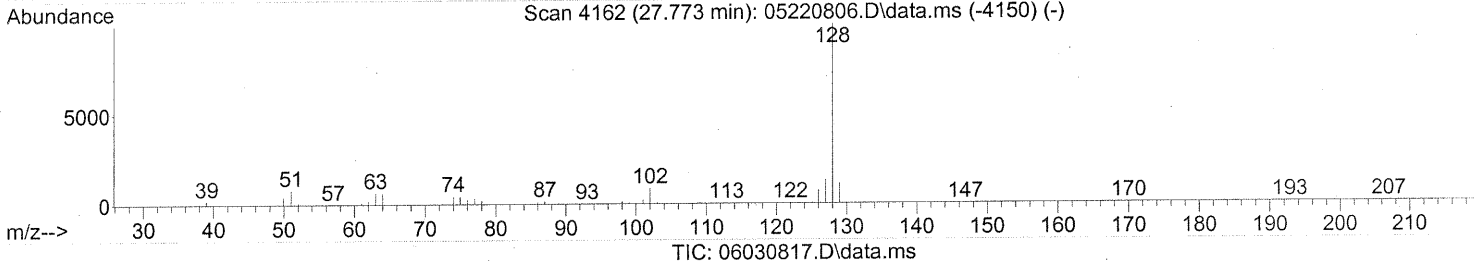
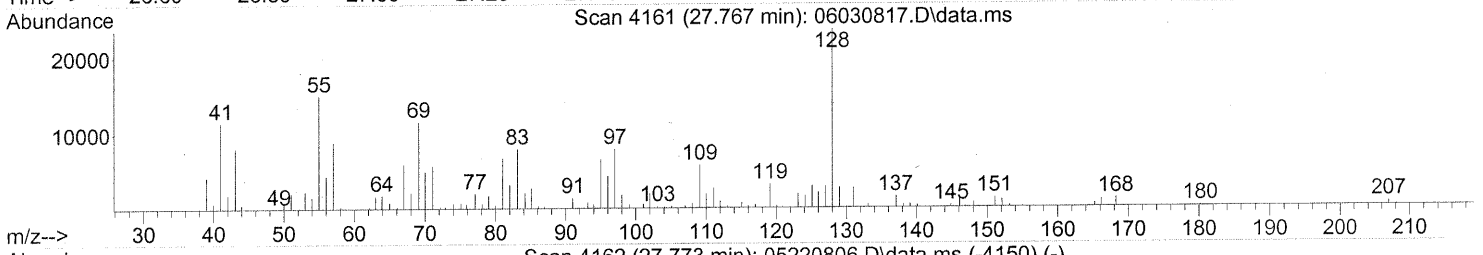
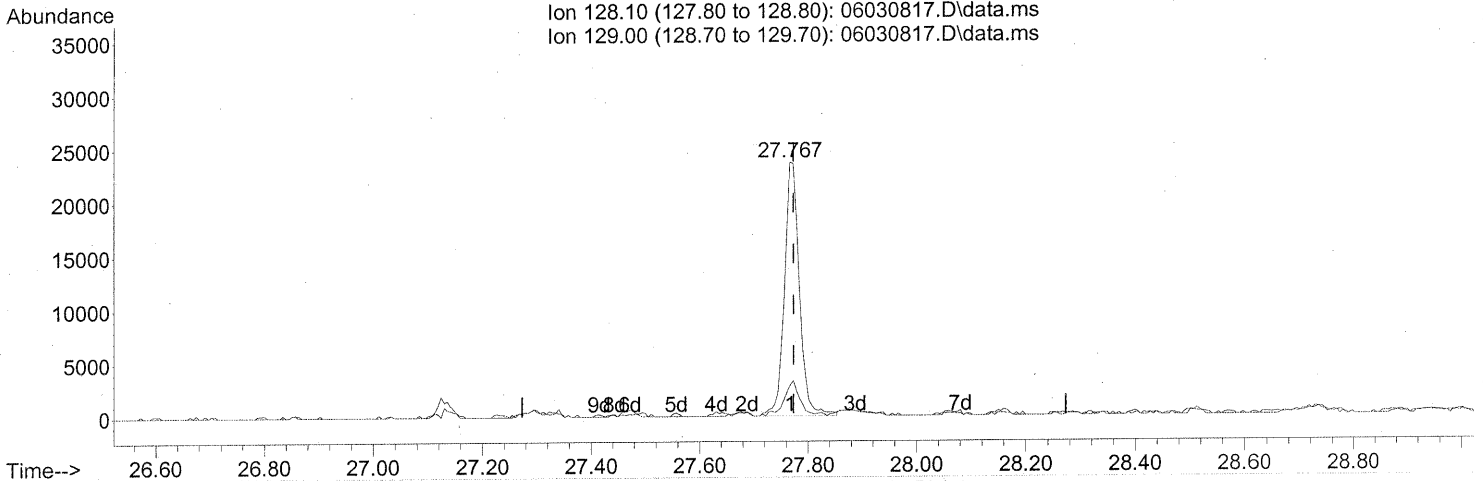
response 11927

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	19.68
91.10	27.10	58.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



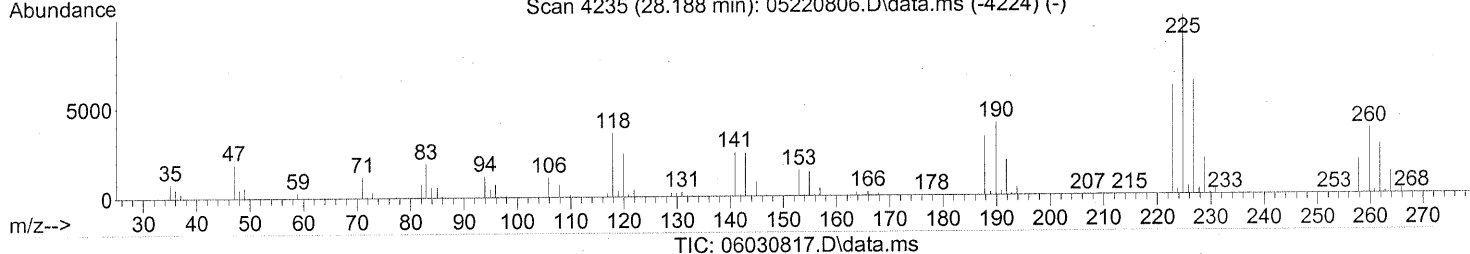
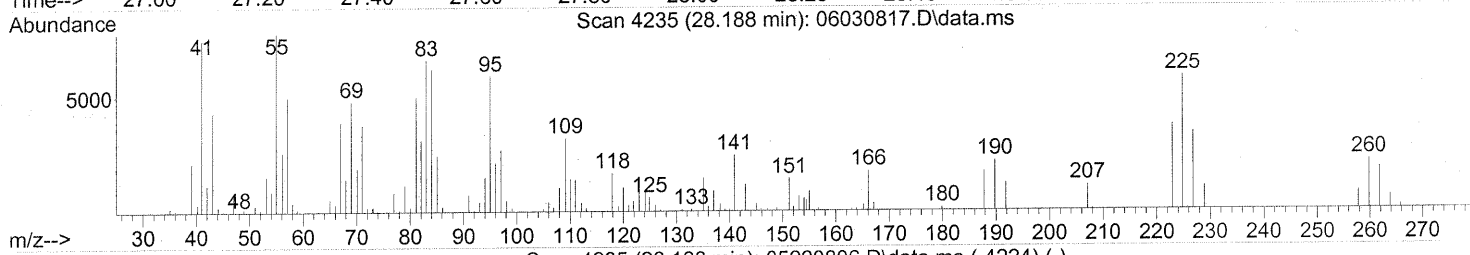
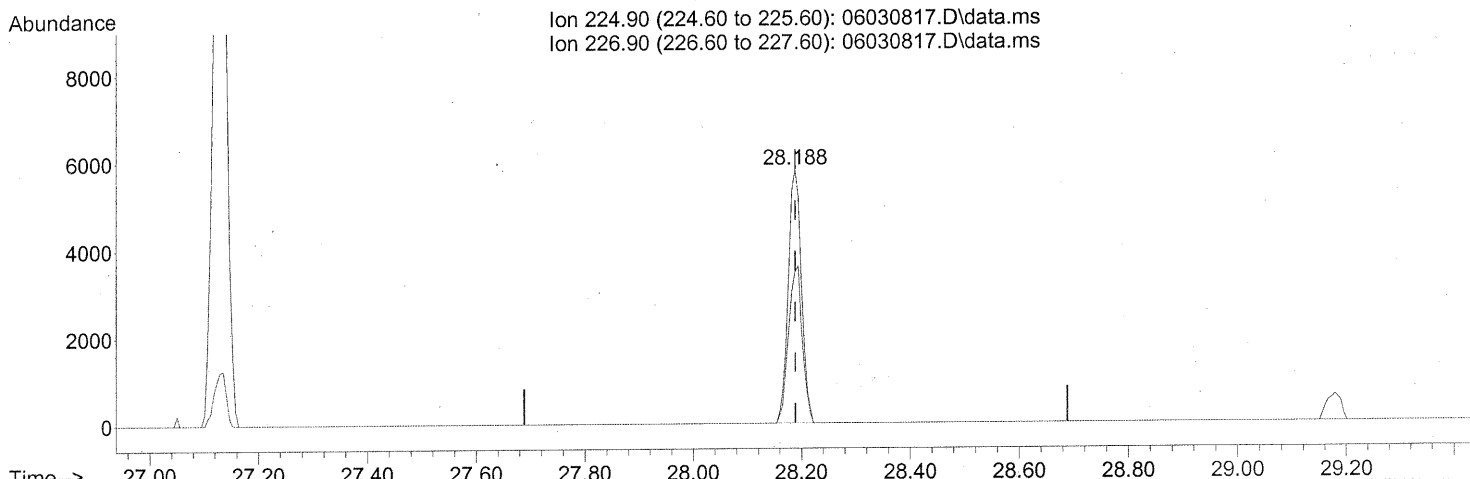
(95) Naphthalene (T)  
 27.767min (-0.006) 0.40ng  
 response 45248

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	14.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 16:47:24 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

28.188min (-0.000) 0.39ng

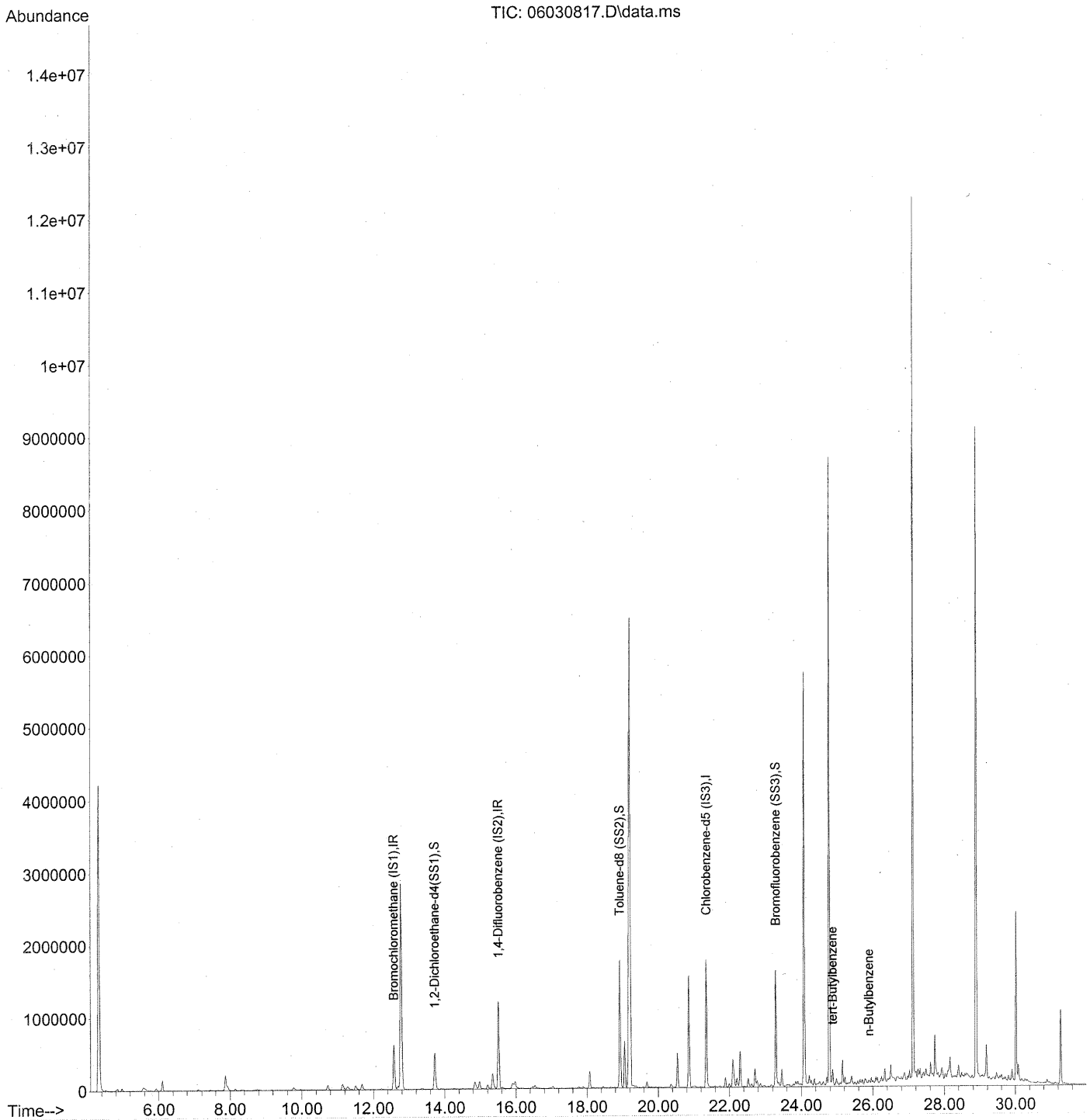
response 9731

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	64.52
0.00	0.00	0.00
0.00	0.00	0.00



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:23:10 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:23:10 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

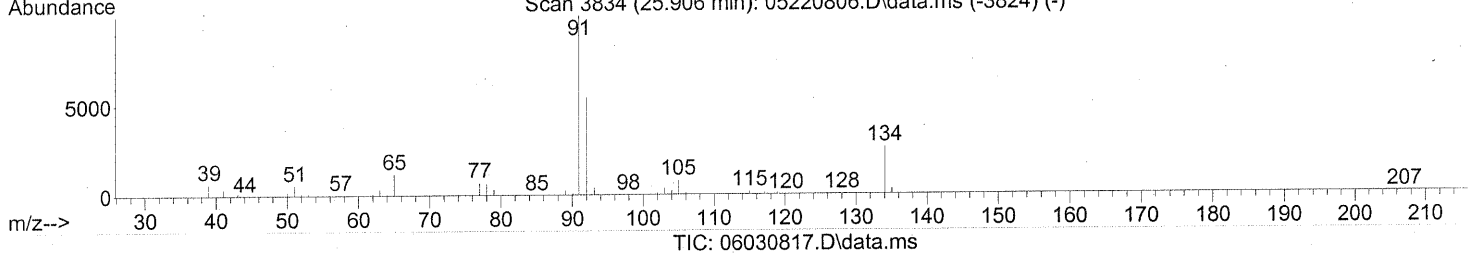
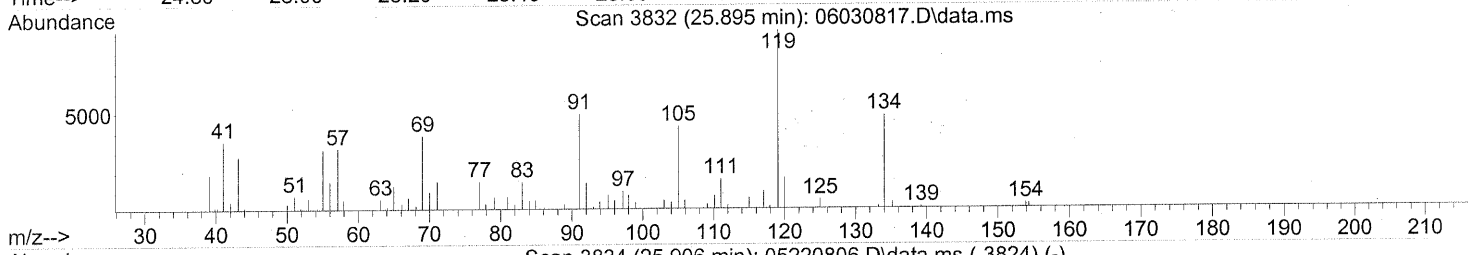
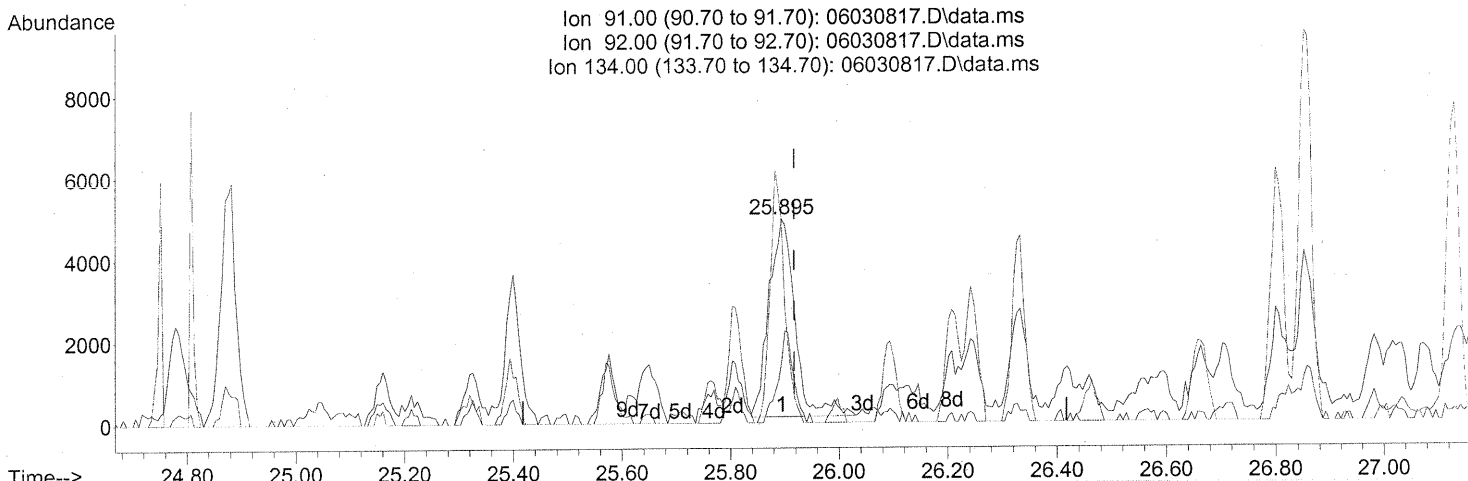
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	331666	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1461583	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	696423	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	519211	22.593	ng	-0.03
Spiked Amount	25.000			Recovery	=	90.36% ✓
5) Toluene-d8 (SS2)	18.93	98	1501473	24.006	ng	-0.01
Spiked Amount	25.000			Recovery	=	96.04% ✓
6) Bromofluorobenzene (SS3)	23.29	174	631005	24.809	ng	0.00
Spiked Amount	25.000			Recovery	=	99.24% ✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	11772	<del>0.144</del> ng	#	54
8) n-Butylbenzene	25.89	91	15982	0.177 ng	#	47

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030817.D  
 Acq On : 3 Jun 2008 9:05 pm  
 Operator : RTB  
 Sample : P0801548-019 (1000mL)  
 Misc : ENSR SG87B-05 (-6.3, 3.5)  
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 08 17:23:10 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.895min (-0.023) 0.18ng

response 15982

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	26.89#
134.00	28.80	71.00#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

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

CAS Project ID: P0801548  
CAS Sample ID: P080530-MB

Date Collected: NA  
Date Received: NA  
Date Analyzed: 5/30/08  
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	<b>Acetone</b>	<b>0.16</b>	5.0	0.073	<b>0.068</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08 **1148**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-MB

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By: CA

Date: 6/10/08

**1149**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-MB

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 5/30/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

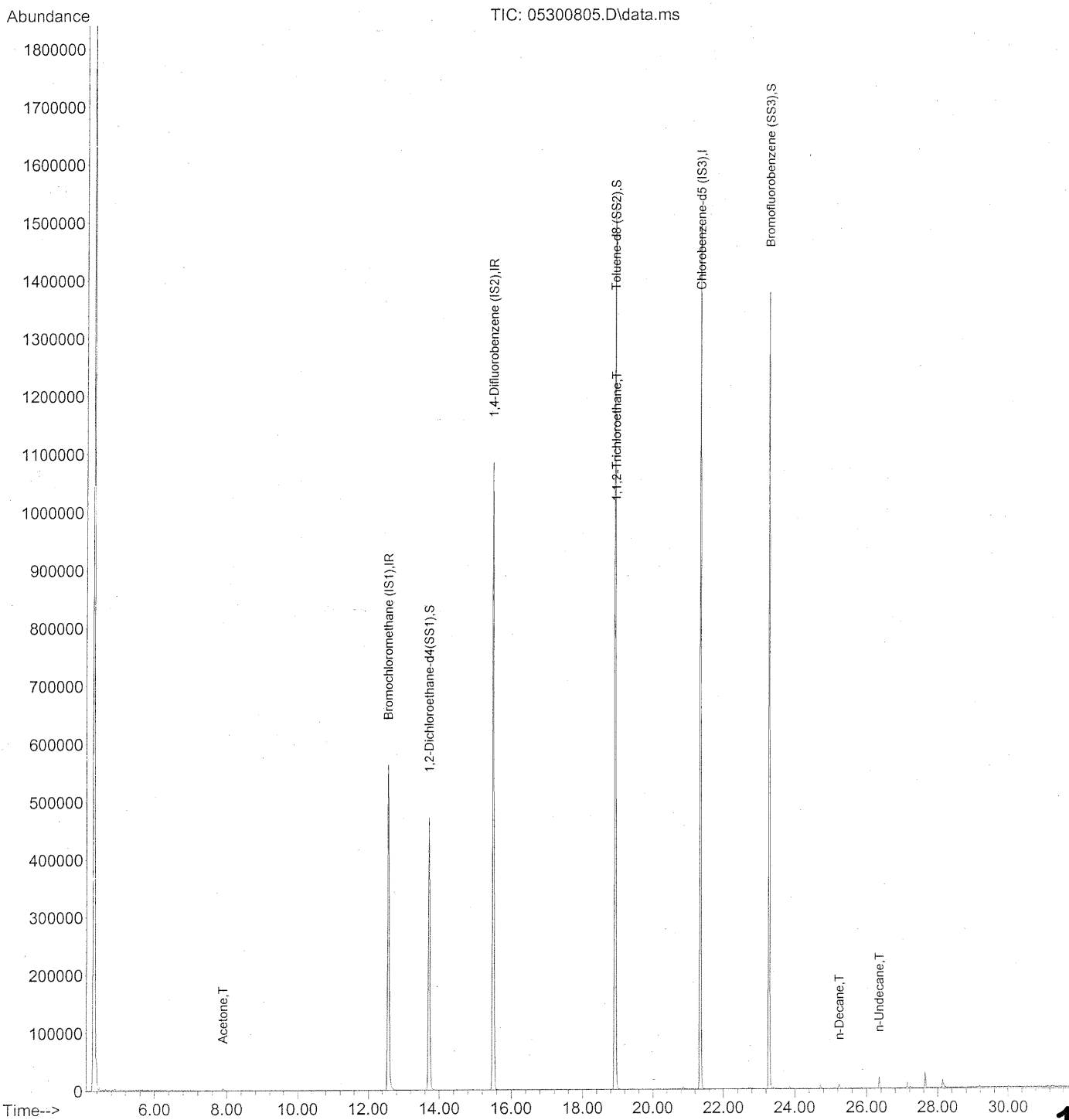
ND = Compound was analyzed for, but not detected above the laboratory detection limit.

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

Verified By: CA Date: 6/10/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 13:21:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 13:21:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.57	130	298567	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.51	114	1267924	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	581218	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	492950	23.828	ng	-0.01
Spiked Amount	25.000		Recovery	=	95.32%	
57) Toluene-d8 (SS2)	18.92	98	1282540	24.570	ng	0.00
Spiked Amount	25.000		Recovery	=	98.28%	
73) Bromofluorobenzene (SS3)	23.29	174	535252	25.216	ng	0.00
Spiked Amount	25.000		Recovery	=	100.88%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.85	42	912	N.D.		
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	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	7.14	45	187	N.D.		
11) Acetonitrile	7.48	41	1566	N.D.		
12) Acrolein	7.67	56	237	N.D.		
13) Acetone	7.89	58	2607	0.162 ng		# J 72
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	8.39	45	71	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	0.00	59	0	N.D.		
19) Methylene Chloride	9.35	84	541	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.77	76	695	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	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\2008\_05\30\  
Data File : 05300805.D  
Acq On : 30 May 2008 11:05  
Operator : WA  
Sample : TO-15 Method Blank (1000ml)  
Misc : S20-05160801  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 13:21:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	0.00	83	0		N.D.	
34) Tetrahydrofuran	0.00	72	0		N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0		N.D.	
36) 1,2-Dichloroethane	13.73	62	192		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	14.90	56	59		N.D.	
41) Benzene	14.99	78	732		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.49	84	730		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) Isooctane	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	18.94	97	111893	<del>6.820 ng</del>	#NR	7
58) Toluene	19.07	91	173		N.D.	
59) 2-Hexanone	19.70	43	66		N.D.	
60) Dibromochloromethane	0.00	129	0		N.D.	
61) 1,2-Dibromoethane	0.00	107	0		N.D.	
62) Butyl Acetate	0.00	43	0		N.D.	
63) n-Octane	0.00	57	0		N.D.	
64) Tetrachloroethene	0.00	166	0		N.D.	
65) Chlorobenzene	21.35	112	54		N.D.	
66) Ethylbenzene	0.00	91	0		N.D.	
67) m- & p-Xylene	0.00	91	0		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	0.00	104	0		N.D.	
70) o-Xylene	0.00	91	0		N.D.	
71) n-Nonane	22.72	43	766		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.42	105	55		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	24.11	91	51		N.D.	
77) 3-Ethyltoluene	24.23	105	71		N.D.	
78) 4-Ethyltoluene	24.33	105	69		N.D.	
79) 1,3,5-Trimethylbenzene	24.33	105	69		N.D.	

05/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 13:21:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	24.63	105	56	N.D.		
82) 1,2,4-Trimethylbenzene	24.63	105	56	N.D.		
83) n-Decane	25.23	57	4757	<del>0.121</del> ng	#	50
84) Benzyl Chloride	25.06	91	58	N.D.		
85) 1,3-Dichlorobenzene	25.16	146	60	N.D.		
86) 1,4-Dichlorobenzene	25.16	146	60	N.D.		
87) sec-Butylbenzene	0.00	105	0	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	25.86	105	317	N.D.		
90) 1,2-Dichlorobenzene	25.16	146	60	N.D.		
91) d-Limonene	0.00	68	0	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	26.34	57	4685	<del>0.114</del> ng	#	61
94) 1,2,4-Trichlorobenzene	27.64	180	234	N.D.		
95) Naphthalene	27.78	128	1899	N.D.		
96) n-Dodecane	27.75	57	60	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

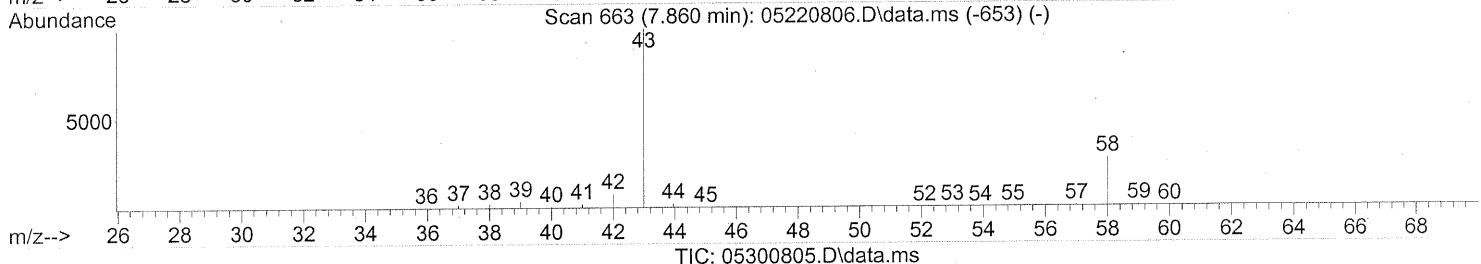
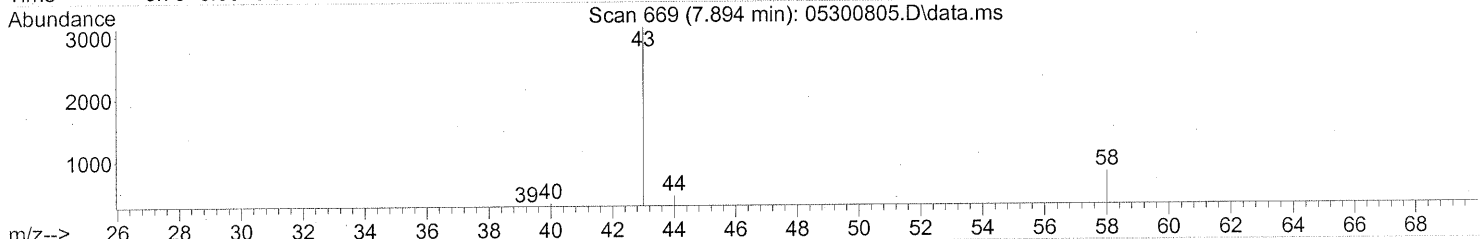
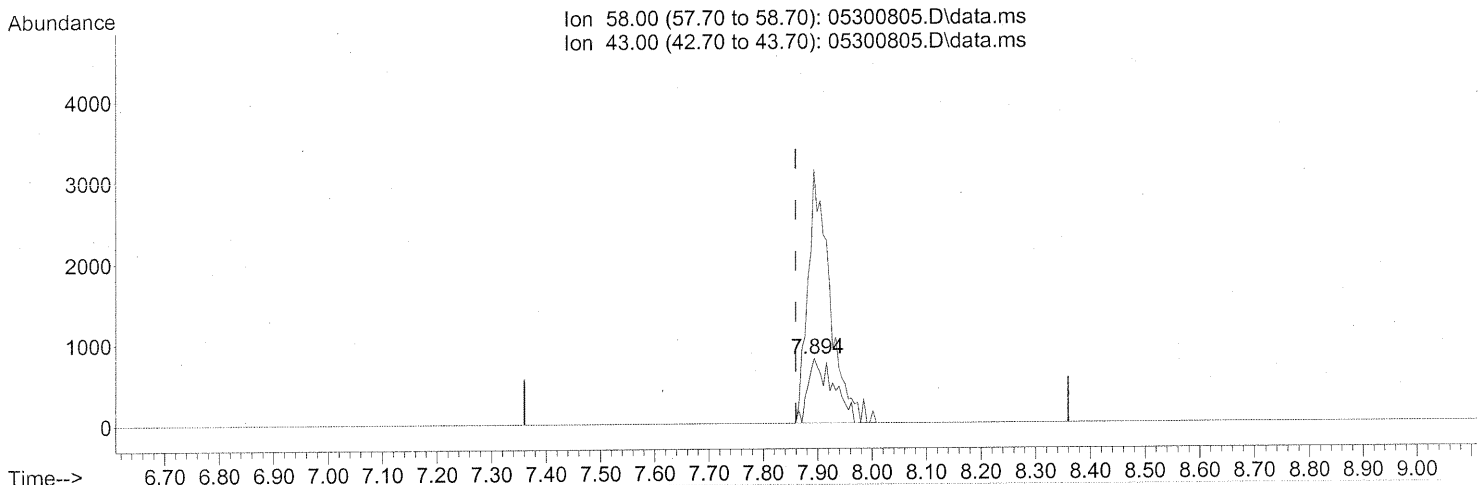
(#) = qualifier out of range (m) = manual integration (+) = signals summed

QI 5/30/08

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05 am  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 30 13:21:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

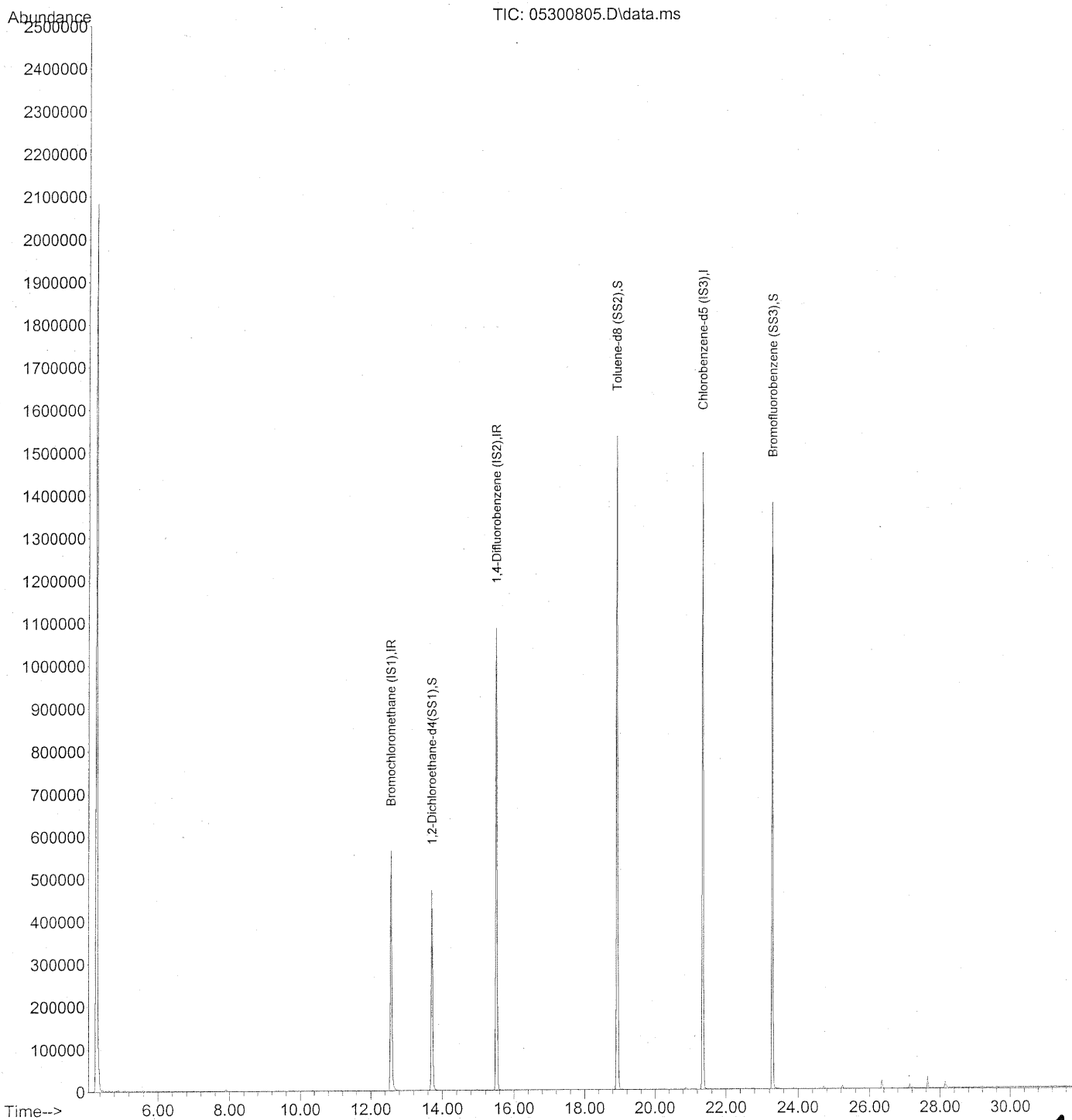
7.894min (+0.034) 0.16ng

response 2607

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	336.21#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05 am  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 12:57:17 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300805.D  
 Acq On : 30 May 2008 11:05 am  
 Operator : WA  
 Sample : TO-15 Method Blank (1000ml)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 12:57:17 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.57	130	298567	25.000	ng	-0.03	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1267924	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	581218	25.000	ng	-0.01	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4 (...)	13.72	65	492950	23.828	ng	-0.03	
Spiked Amount	25.000						Recovery = 95.32% ✓
5) Toluene-d8 (SS2)	18.92	98	1282540	24.570	ng	-0.02	
Spiked Amount	25.000						Recovery = 98.28% ✓
6) Bromofluorobenzene (SS3)	23.29	174	535252	25.216	ng	0.00	
Spiked Amount	25.000						Recovery = 100.88% ✓
Target Compounds							
7) tert-Butylbenzene	0.00	119	0		N.D.		Qvalue
8) n-Butylbenzene	0.00	91	0		N.D.		

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

*Handwritten signature*  
 2006/04/05

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-MB

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/2/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	<b>Ethanol</b>	<b>0.093</b>	5.0	0.050	<b>0.049</b>	2.7	0.027	<b>J</b>
67-64-1	<b>Acetone</b>	<b>0.66</b>	5.0	0.073	<b>0.28</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	<b>Vinyl Acetate</b>	<b>0.22</b>	5.0	0.16	<b>0.062</b>	1.4	0.045	<b>J</b>
78-93-3	<b>2-Butanone (MEK)</b>	<b>0.12</b>	0.50	0.050	<b>0.039</b>	0.17	0.017	<b>J</b>
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         

Date: 6/10/08

**1158**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-MB

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/2/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result	MRL	MDL	Result	MRL	MDL	Data
		µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	ppbV	ppbV	ppbV	Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By:          Date: 6/10/08 **1159**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
CAS Sample ID: P080602-MB

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

Date Collected: NA  
Date Received: NA  
Date Analyzed: 6/2/08  
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	<b>Naphthalene</b>	<b>0.12</b>	0.20	0.074	<b>0.023</b>	0.038	0.014	<b>J</b>
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:         *Cat*        

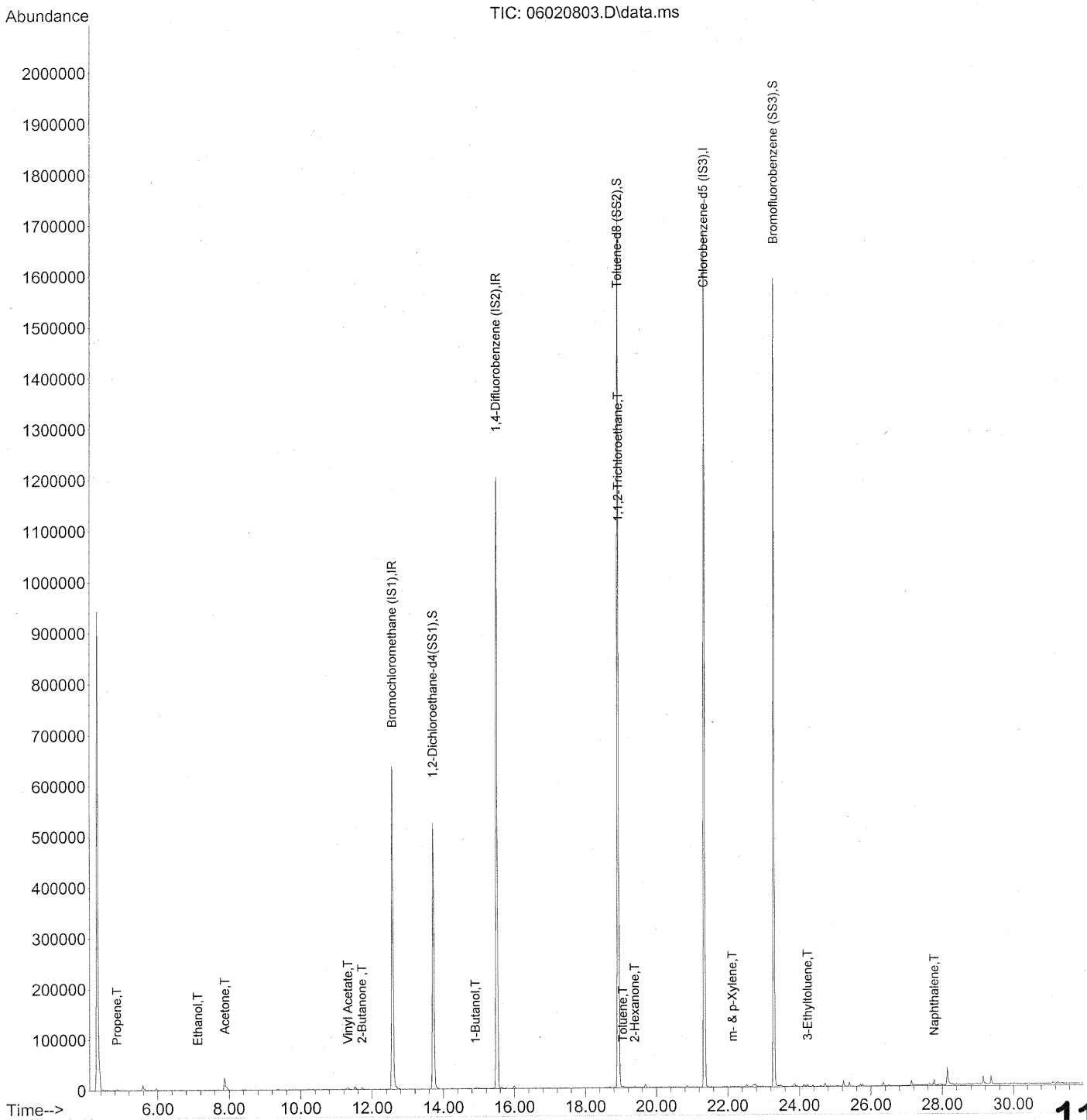
Date:         6/10/08        

**1160**



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



1161

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	341020	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1428446	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	664916	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	540806	22.887	ng	-0.01
Spiked Amount	25.000		Recovery	=	91.56%	✓
57) Toluene-d8 (SS2)	18.92	98	1466947	24.565	ng	0.00
Spiked Amount	25.000		Recovery	=	98.28%	✓
73) Bromofluorobenzene (SS3)	23.29	174	622528	25.636	ng	0.00
Spiked Amount	25.000		Recovery	=	102.56%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.86	42	1155	<del>0.043</del>	ng	# 71
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	0.00	135	0	N.D.		
6) Vinyl Chloride	0.00	62	0	N.D.		
7) 1,3-Butadiene	6.04	54	137	N.D.		
8) Bromomethane	6.51	94	57	N.D.		
9) Chloroethane	0.00	64	0	N.D.		
10) Ethanol	7.12	45	1663	0.093	ng	J 72
11) Acetonitrile	7.46	41	1366	N.D.		
12) Acrolein	7.65	56	464	N.D.		
13) Acetone	7.88	58	12170	0.663	ng	#J 46
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	8.36	45	795	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	9.35	59	271	N.D.		
19) Methylene Chloride	9.36	84	596	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	1613	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	11.22	73	952	N.D.		
26) Vinyl Acetate	11.32	86	744	0.219	ng	# J 32
27) 2-Butanone	11.71	72	1549	0.116	ng	# J 87
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	0.00	87	0	N.D.		
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	12.70	57	938	N.D.		

*POC/04/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	0.00	83	0	N.D.		
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	13.73	62	72	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	14.90	56	1332	<del>0.068 ng</del>		89
41) Benzene	14.98	78	2309	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	15.41	84	368	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) Isooctane	16.62	57	258	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	16.98	71	126	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	18.94	97	127160	<del>6.880 ng</del>		8
58) Toluene	19.05	91	3996	<del>0.049 ng</del>	#	71
59) 2-Hexanone	19.38	43	2672	<del>0.048 ng</del>	#	58
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	20.20	43	69	N.D.		
63) n-Octane	20.35	57	344	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	21.88	91	2913	N.D.		
67) m- & p-Xylene	22.13	91	4013	<del>0.064 ng</del>		95
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	22.71	91	2426	N.D.		
71) n-Nonane	22.97	43	1160	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	23.47	105	2903	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	24.11	91	127	N.D.		
77) 3-Ethyltoluene	24.23	105	4238	<del>0.044 ng</del>		97
78) 4-Ethyltoluene	24.30	105	318	N.D.		
79) 1,3,5-Trimethylbenzene	24.38	105	3005	N.D.		

*F06/04/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	24.61	105	231		N.D.	
82) 1,2,4-Trimethylbenzene	24.88	105	1055		N.D.	
83) n-Decane	24.99	57	62		N.D.	
84) Benzyl Chloride	25.04	91	56		N.D.	
85) 1,3-Dichlorobenzene	0.00	146	0		N.D.	
86) 1,4-Dichlorobenzene	0.00	146	0		N.D.	
87) sec-Butylbenzene	25.12	105	59		N.D.	
88) p-Isopropyltoluene	25.39	119	2940		N.D.	
89) 1,2,3-Trimethylbenzene	25.40	105	2680		N.D.	
90) 1,2-Dichlorobenzene	0.00	146	0		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.50	57	1167		N.D.	
94) 1,2,4-Trichlorobenzene	27.63	180	53		N.D.	
95) Naphthalene	27.78	128	12769	0.119 ng	J	95
96) n-Dodecane	27.74	57	1133		N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

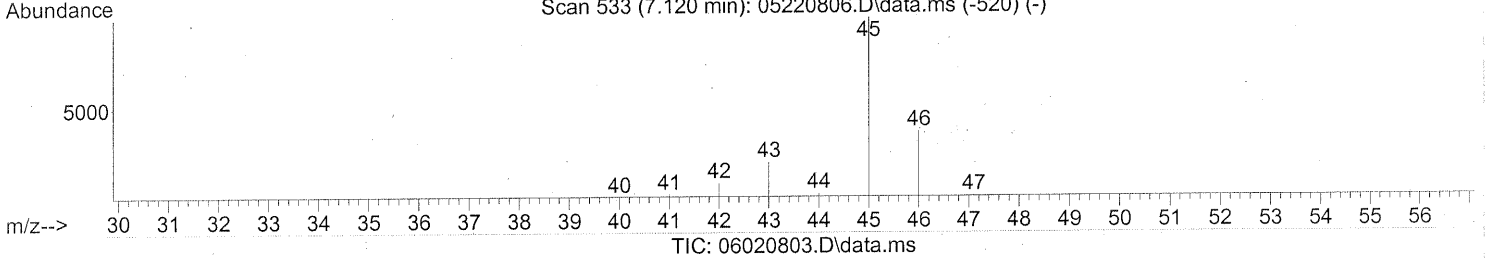
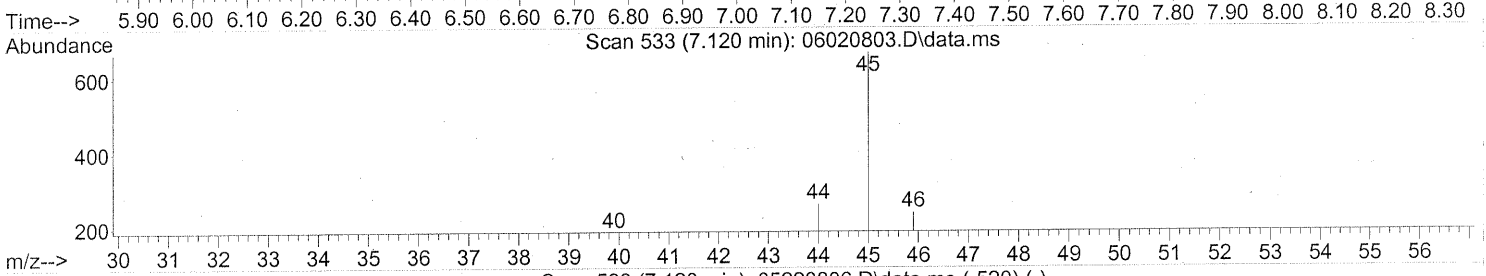
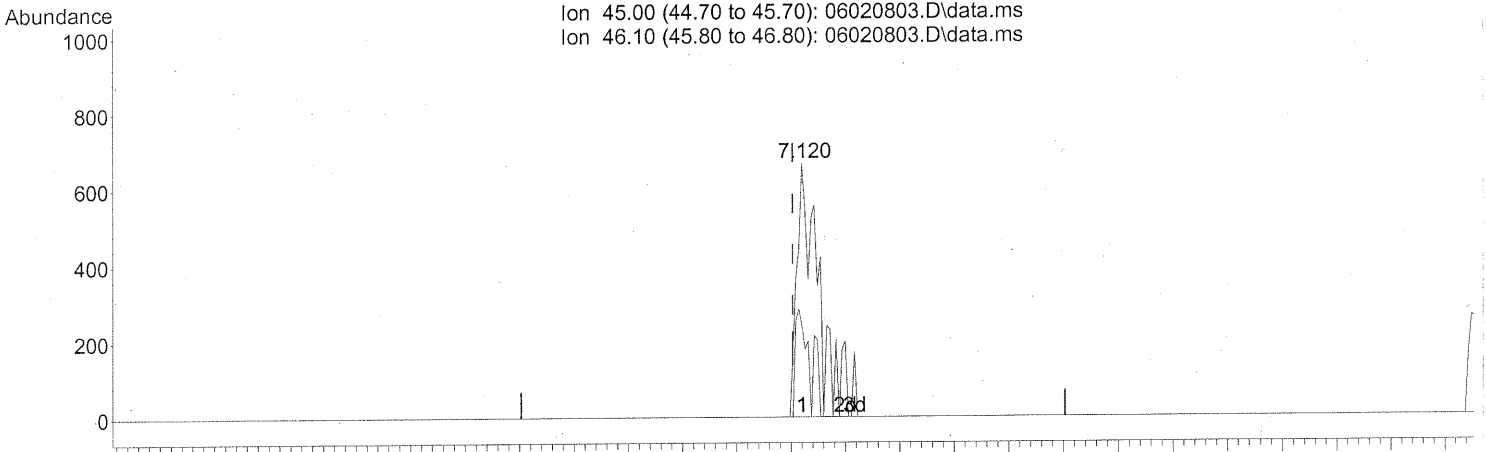
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*F. 6/04/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



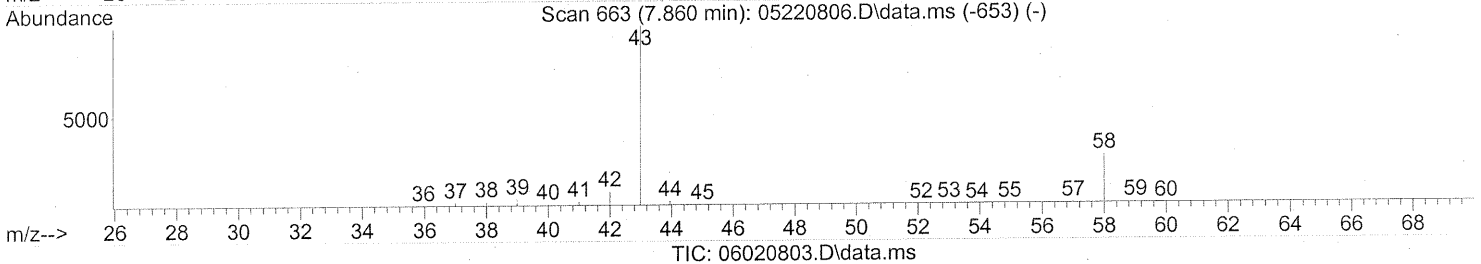
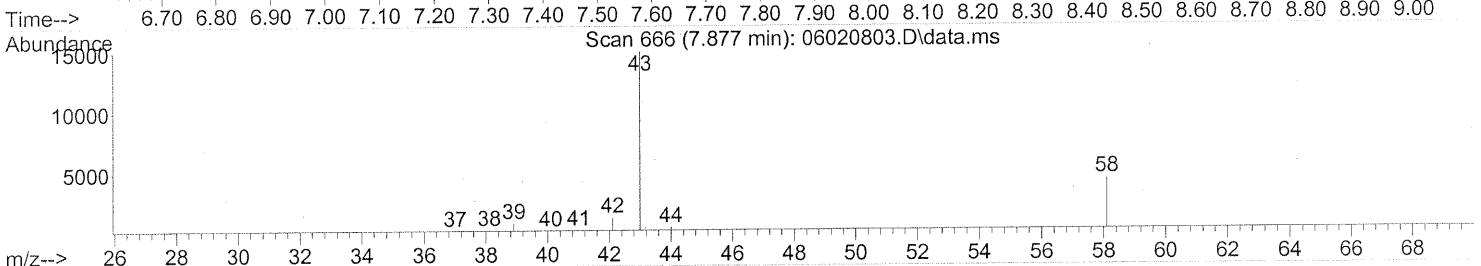
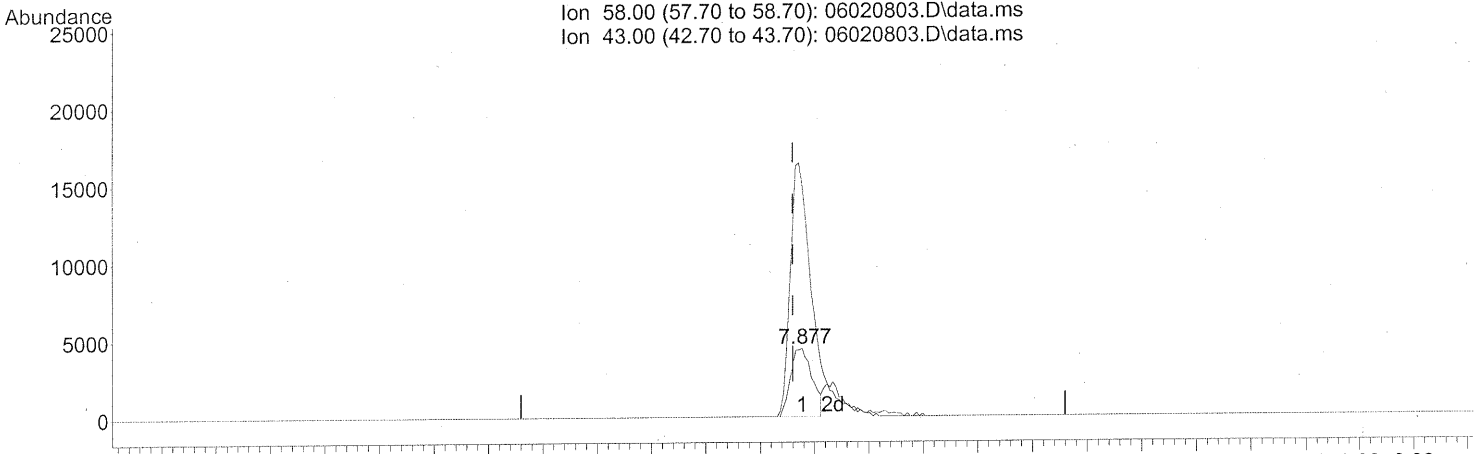
(10) Ethanol (T)  
 7.120min (+0.017) 0.09ng  
 response 1663

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	23.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qual)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

7.877min (+0.017) 0.66ng

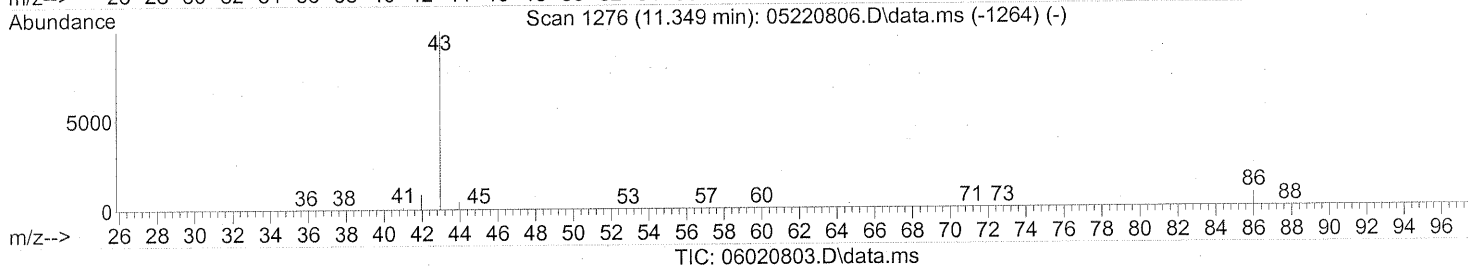
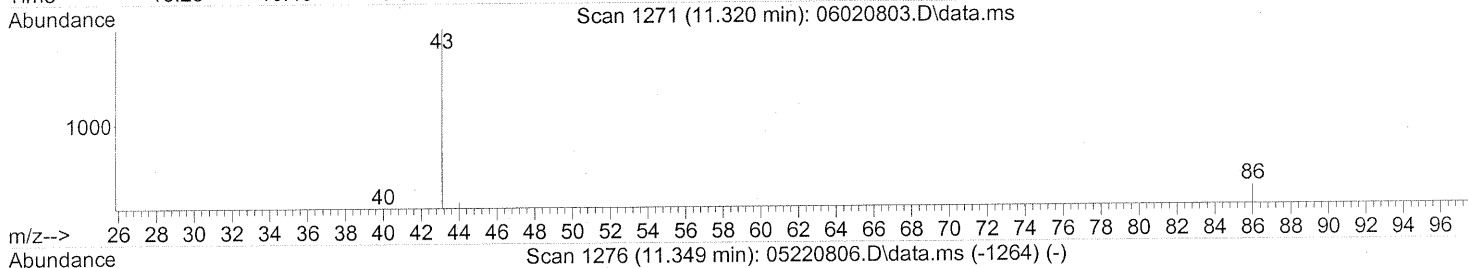
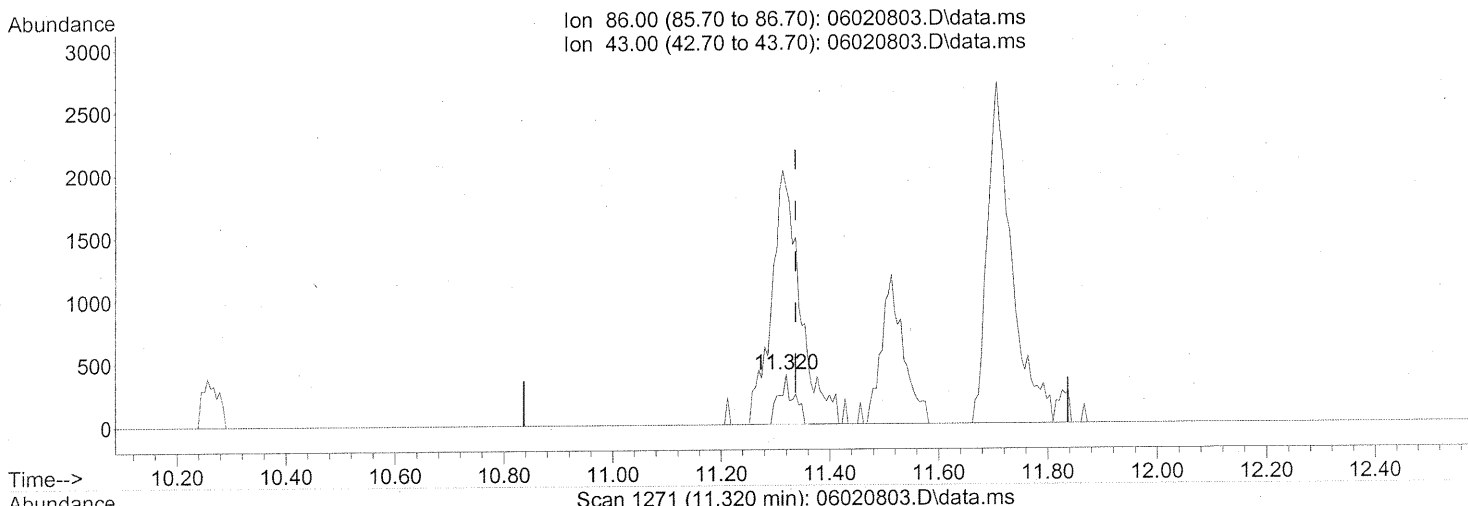
response 12170

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	386.07#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)  
 11.320min (-0.017) 0.22ng

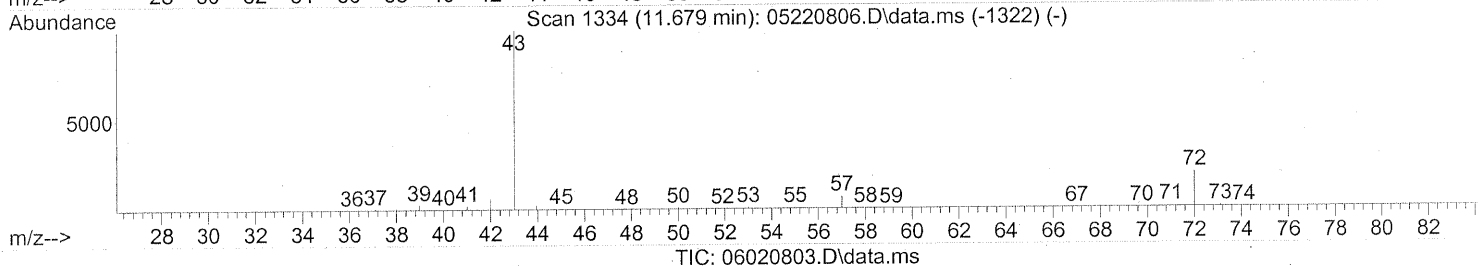
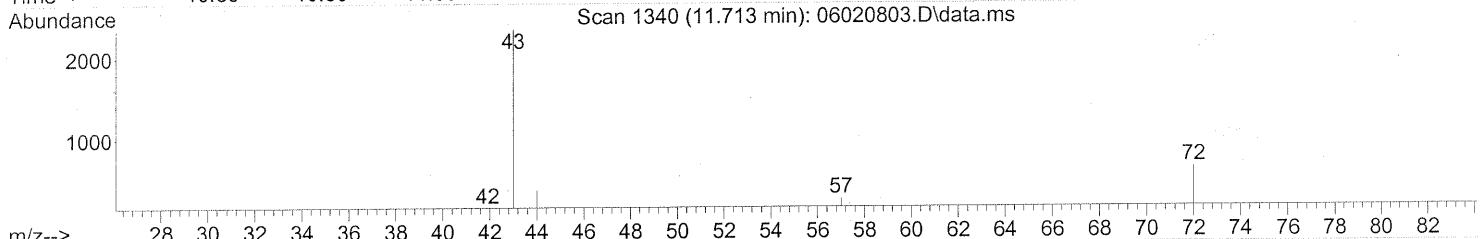
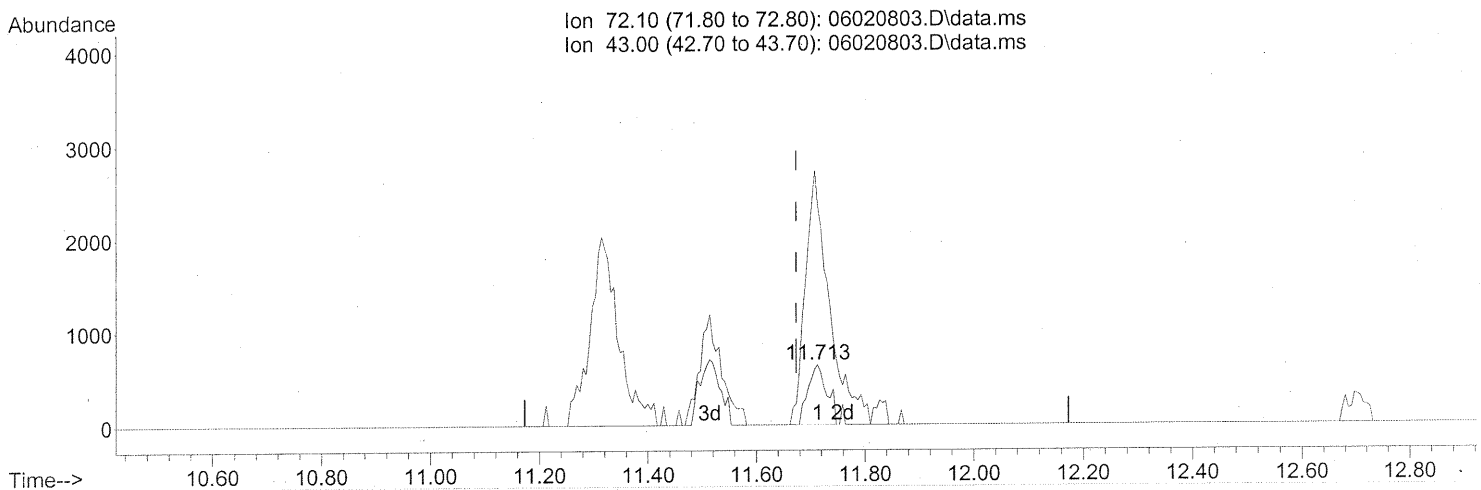
response 744

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	998.52#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020803.D  
Acq On : 2 Jun 2008 10:40 am  
Operator : RTB  
Sample : TO-15/MAPH Method Blank (1.0L)  
Misc : S20-05160801  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(27) 2-Butanone (T)  
11.713min (+0.040) 0.12ng  
response 1549

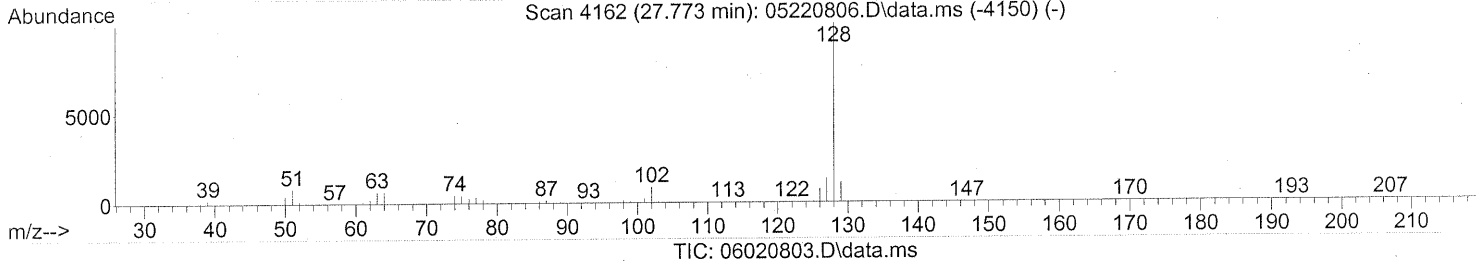
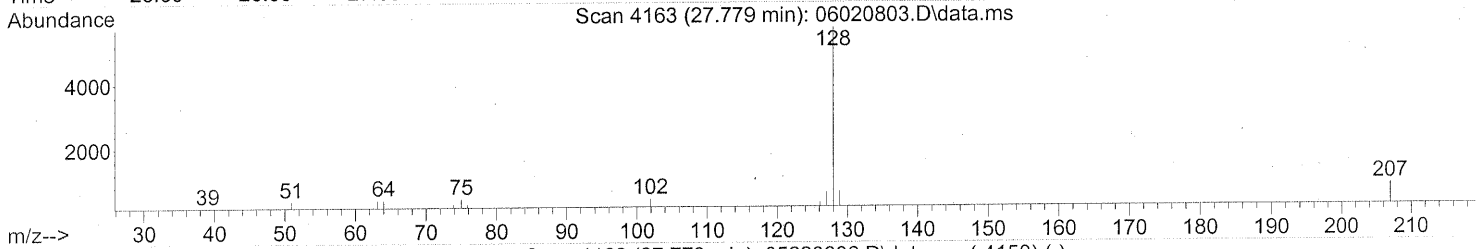
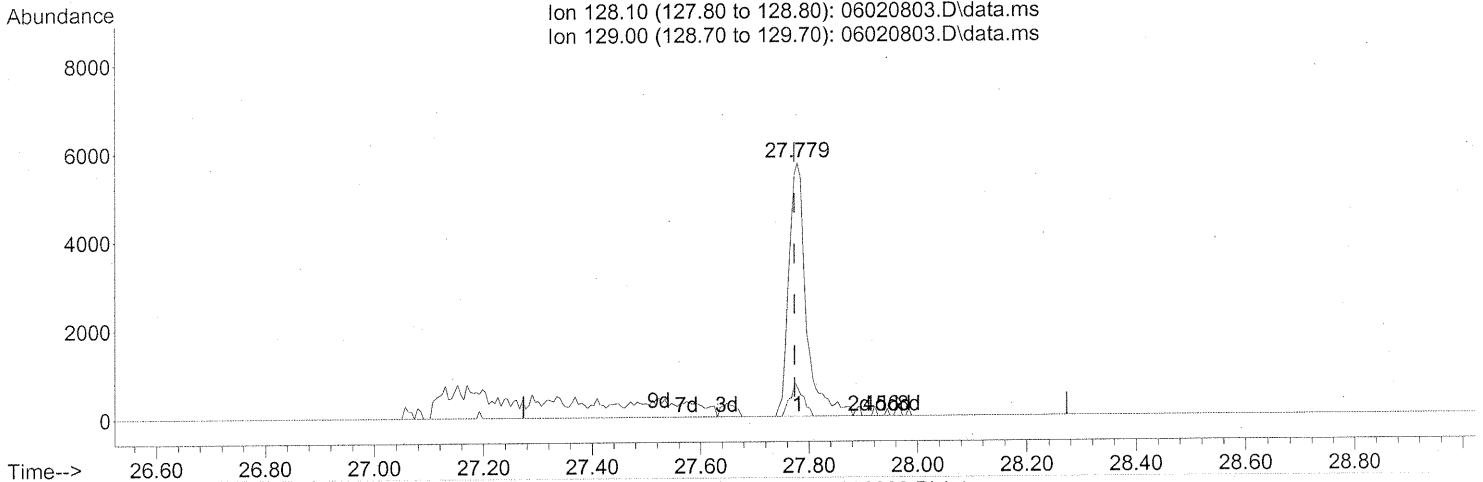
Ion	Exp%	Act%
72.10	100	100
43.00	506.80	542.74#
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 02 11:16:05 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



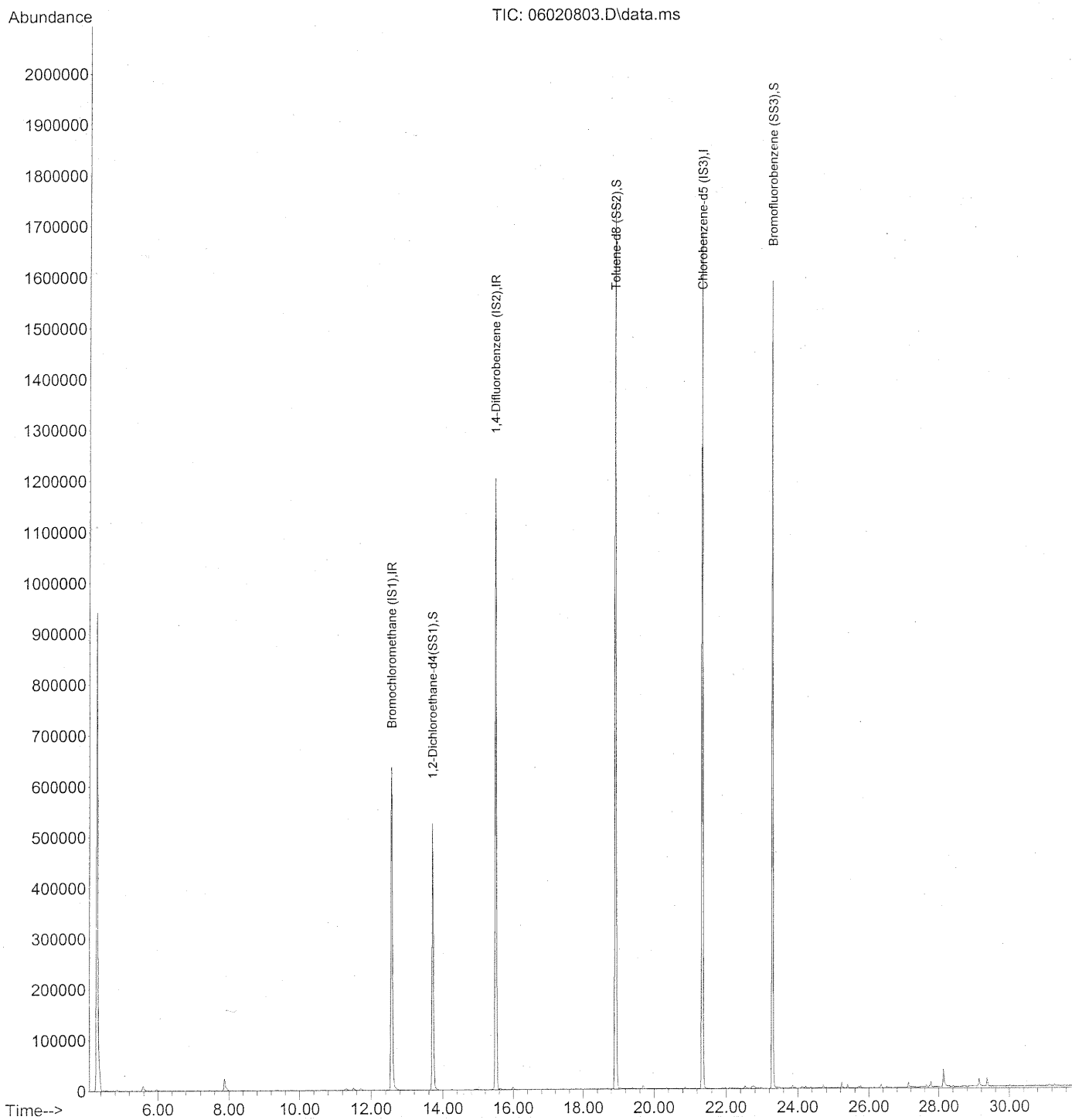
(95) Naphthalene (T)  
 27.779min (+0.006) 0.12ng

response 12769

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	9.78
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 13:04:52 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020803.D  
 Acq On : 2 Jun 2008 10:40 am  
 Operator : RTB  
 Sample : TO-15/MAPH Method Blank (1.0L)  
 Misc : S20-05160801  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 13:04:52 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	341020	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1428446	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	664916	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	540806	22.887	ng	-0.03
Spiked Amount	25.000		Recovery	=	91.56%	✓
5) Toluene-d8 (SS2)	18.92	98	1466947	24.565	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.28%	✓
6) Bromofluorobenzene (SS3)	23.29	174	622528	25.636	ng	0.00
Spiked Amount	25.000		Recovery	=	102.56%	✓
Target Compounds						
7) tert-Butylbenzene	24.87	119	418		N.D.	Qvalue
8) n-Butylbenzene	0.00	91	0		N.D.	

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

*pac/04/08*

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

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

CAS Project ID: P0801548  
CAS Sample ID: P080603-MB

Date Collected: NA  
Date Received: NA  
Date Analyzed: 6/3/08  
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	0.50	0.050	ND	0.10	0.010	
74-87-3	Chloromethane	ND	0.10	0.050	ND	0.048	0.024	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.50	0.050	ND	0.072	0.0072	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ND	0.039	0.020	
74-83-9	Bromomethane	ND	0.10	0.050	ND	0.026	0.013	
75-00-3	Chloroethane	ND	0.10	0.050	ND	0.038	0.019	
64-17-5	Ethanol	ND	5.0	0.050	ND	2.7	0.027	
67-64-1	<b>Acetone</b>	<b>0.16</b>	5.0	0.073	<b>0.065</b>	2.1	0.031	<b>J</b>
75-69-4	Trichlorofluoromethane	ND	0.10	0.050	ND	0.018	0.0089	
107-13-1	Acrylonitrile	ND	0.50	0.070	ND	0.23	0.032	
75-35-4	1,1-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	0.50	0.074	ND	0.17	0.024	
75-09-2	Methylene Chloride	ND	0.50	0.050	ND	0.14	0.014	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.10	0.050	ND	0.032	0.016	
76-13-1	Trichlorotrifluoroethane	ND	0.10	0.056	ND	0.013	0.0073	
75-15-0	Carbon Disulfide	ND	0.50	0.12	ND	0.16	0.039	
156-60-5	trans-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
75-34-3	1,1-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
1634-04-4	Methyl tert-Butyl Ether	ND	0.10	0.050	ND	0.028	0.014	
108-05-4	Vinyl Acetate	ND	5.0	0.16	ND	1.4	0.045	
78-93-3	2-Butanone (MEK)	ND	0.50	0.050	ND	0.17	0.017	
156-59-2	cis-1,2-Dichloroethene	ND	0.10	0.050	ND	0.025	0.013	
108-20-3	Diisopropyl Ether	ND	0.50	0.059	ND	0.12	0.014	
67-66-3	Chloroform	ND	0.10	0.059	ND	0.020	0.012	

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

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By:          Date: 6/10/08 **1172**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-MB

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	0.50	0.051	ND	0.12	0.012	
107-06-2	1,2-Dichloroethane	ND	0.10	0.050	ND	0.025	0.012	
71-55-6	1,1,1-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
71-43-2	Benzene	ND	0.10	0.050	ND	0.031	0.016	
56-23-5	Carbon Tetrachloride	ND	0.10	0.050	ND	0.016	0.0080	
994-05-8	tert-Amyl Methyl Ether	ND	0.50	0.050	ND	0.12	0.012	
78-87-5	1,2-Dichloropropane	ND	0.10	0.050	ND	0.022	0.011	
75-27-4	Bromodichloromethane	ND	0.10	0.050	ND	0.015	0.0075	
79-01-6	Trichloroethene	ND	0.10	0.050	ND	0.019	0.0093	
123-91-1	1,4-Dioxane	ND	0.50	0.061	ND	0.14	0.017	
80-62-6	Methyl Methacrylate	ND	0.50	0.075	ND	0.12	0.018	
142-82-5	n-Heptane	ND	0.50	0.064	ND	0.12	0.016	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.052	ND	0.11	0.011	
108-10-1	4-Methyl-2-pentanone	ND	0.50	0.056	ND	0.12	0.014	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.063	ND	0.11	0.014	
79-00-5	1,1,2-Trichloroethane	ND	0.10	0.050	ND	0.018	0.0092	
108-88-3	Toluene	ND	0.50	0.050	ND	0.13	0.013	
591-78-6	2-Hexanone	ND	0.50	0.076	ND	0.12	0.019	
124-48-1	Dibromochloromethane	ND	0.10	0.068	ND	0.012	0.0080	
106-93-4	1,2-Dibromoethane	ND	0.10	0.054	ND	0.013	0.0070	
111-65-9	n-Octane	ND	0.50	0.050	ND	0.11	0.011	
127-18-4	Tetrachloroethene	ND	0.10	0.050	ND	0.015	0.0074	
108-90-7	Chlorobenzene	ND	0.10	0.051	ND	0.022	0.011	

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

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

Verified By:          Date: 6/10/08

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Method Blank  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-MB

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/3/08  
 Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m <sup>3</sup>	MRL µg/m <sup>3</sup>	MDL µg/m <sup>3</sup>	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	ND	0.50	0.063	ND	0.12	0.015	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.10	0.064	ND	0.015	0.0093	
98-82-8	Cumene	ND	0.50	0.056	ND	0.10	0.011	
103-65-1	n-Propylbenzene	ND	0.50	0.052	ND	0.10	0.011	
622-96-8	4-Ethyltoluene	ND	0.50	0.057	ND	0.10	0.012	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.060	ND	0.10	0.012	
98-83-9	alpha-Methylstyrene	ND	0.50	0.073	ND	0.10	0.015	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.069	ND	0.10	0.014	
100-44-7	Benzyl Chloride	ND	0.10	0.086	ND	0.019	0.017	
541-73-1	1,3-Dichlorobenzene	ND	0.10	0.062	ND	0.017	0.010	
106-46-7	1,4-Dichlorobenzene	ND	0.10	0.056	ND	0.017	0.0093	
135-98-8	sec-Butylbenzene	ND	0.50	0.058	ND	0.091	0.011	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	0.50	0.065	ND	0.091	0.012	
95-50-1	1,2-Dichlorobenzene	ND	0.10	0.066	ND	0.017	0.011	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.076	ND	0.052	0.0079	
120-82-1	1,2,4-Trichlorobenzene	ND	0.10	0.076	ND	0.013	0.010	
91-20-3	Naphthalene	ND	0.20	0.074	ND	0.038	0.014	
87-68-3	Hexachlorobutadiene	ND	0.10	0.090	ND	0.0094	0.0084	
98-06-6	tert-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	
104-51-8	n-Butylbenzene	ND	0.20	0.050	ND	0.036	0.0091	

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

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

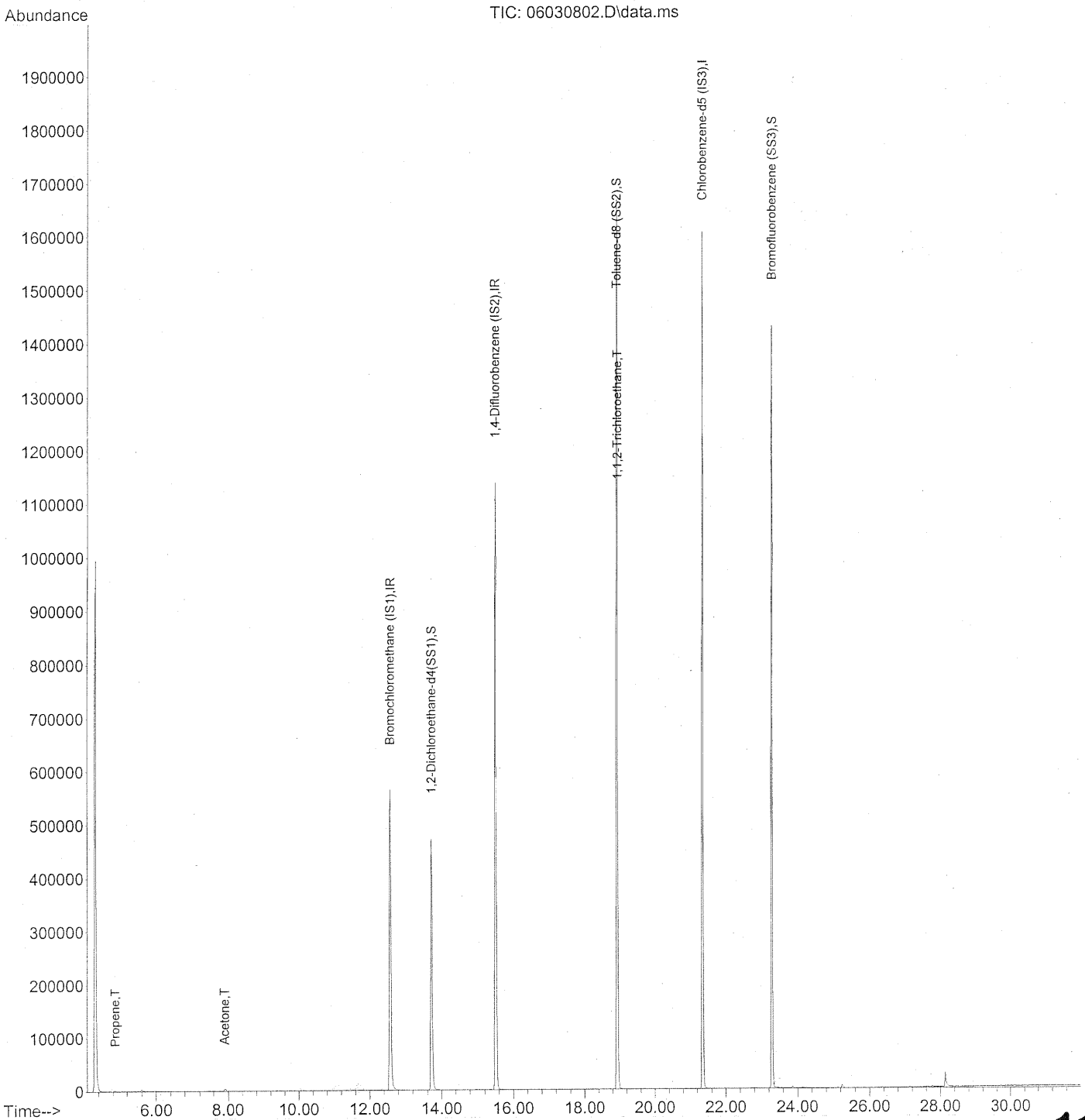
Verified By: GA

Date: 6/10/08

**1174**

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030802.D  
Acq On : 3 Jun 2008 9:08 am  
Operator : RTB  
Sample : TO-15 Method Blank (1.0L)  
Misc : S20-06020803  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:06:47 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030802.D  
 Acq On : 3 Jun 2008 9:08 am  
 Operator : RTB  
 Sample : TO-15 Method Blank (1.0L)  
 Misc : S20-06020803  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:06:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	309051	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1343195	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	634768	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4 (...)	13.72	65	495102	23.120	ng	0.00
Spiked Amount 25.000			Recovery =	92.48%		✓
57) Toluene-d8 (SS2)	18.92	98	1396372	24.494	ng	0.00
Spiked Amount 25.000			Recovery =	97.96%		✓
73) Bromofluorobenzene (SS3)	23.29	174	559402	24.130	ng	0.00
Spiked Amount 25.000			Recovery =	96.52%		✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.87	42	1065	<del>0.044</del>	ng	# 52
3) Dichlorodifluoromethane	0.00	85	0	N.D.		
4) Chloromethane	0.00	50	0	N.D.		
5) Freon 114	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	7.15	45	58	N.D.		
11) Acetonitrile	7.48	41	299	N.D.		
12) Acrolein	7.71	56	57	N.D.		
13) Acetone	7.90	58	2583	<del>0.155</del>	ng	# 49
14) Trichlorofluoromethane	0.00	101	0	N.D.		
15) Isopropanol	8.40	45	52	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	0.00	59	0	N.D.		
19) Methylene Chloride	9.37	84	598	N.D.		
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	9.78	76	423	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	11.55	72	63	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.		

VES. J  
 # 49  
 4/6/08

06/03/08



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030802.D  
 Acq On : 3 Jun 2008 9:08 am  
 Operator : RTB  
 Sample : TO-15 Method Blank (1.0L)  
 Misc : S20-06020803  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:06:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.79	83	54		N.D.	
34) Tetrahydrofuran	0.00	72	0		N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0		N.D.	
36) 1,2-Dichloroethane	13.74	62	120		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	14.99	56	54		N.D.	
41) Benzene	14.98	78	755		N.D.	
42) Carbon Tetrachloride	0.00	117	0		N.D.	
43) Cyclohexane	15.50	84	650		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) Isooctane	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	18.94	97	121472	<del>6.989</del> ng	MF #	8
58) Toluene	19.06	91	222		N.D.	
59) 2-Hexanone	19.43	43	147		N.D.	
60) Dibromochloromethane	0.00	129	0		N.D.	
61) 1,2-Dibromoethane	0.00	107	0		N.D.	
62) Butyl Acetate	0.00	43	0		N.D.	
63) n-Octane	0.00	57	0		N.D.	
64) Tetrachloroethene	0.00	166	0		N.D.	
65) Chlorobenzene	21.34	112	53		N.D.	
66) Ethylbenzene	0.00	91	0		N.D.	
67) m- & p-Xylene	0.00	91	0		N.D.	
68) Bromoform	0.00	173	0		N.D.	
69) Styrene	0.00	104	0		N.D.	
70) o-Xylene	0.00	91	0		N.D.	
71) n-Nonane	22.78	43	55		N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0		N.D.	
74) Cumene	23.46	105	126		N.D.	
75) alpha-Pinene	0.00	93	0		N.D.	
76) n-Propylbenzene	24.10	91	68		N.D.	
77) 3-Ethyltoluene	24.24	105	819		N.D.	
78) 4-Ethyltoluene	24.30	105	745		N.D.	
79) 1,3,5-Trimethylbenzene	24.38	105	242		N.D.	

7/06/03/09

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030802.D  
 Acq On : 3 Jun 2008 9:08 am  
 Operator : RTB  
 Sample : TO-15 Method Blank (1.0L)  
 Misc : S20-06020803  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:06:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	24.62	105	93		N.D.	
82) 1,2,4-Trimethylbenzene	24.89	105	137		N.D.	
83) n-Decane	24.76	57	54		N.D.	
84) Benzyl Chloride	25.06	91	246		N.D.	
85) 1,3-Dichlorobenzene	25.09	146	57		N.D.	
86) 1,4-Dichlorobenzene	25.17	146	353		N.D.	
87) sec-Butylbenzene	24.89	105	137		N.D.	
88) p-Isopropyltoluene	0.00	119	0		N.D.	
89) 1,2,3-Trimethylbenzene	0.00	105	0		N.D.	
90) 1,2-Dichlorobenzene	25.17	146	353		N.D.	
91) d-Limonene	0.00	68	0		N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0		N.D.	
93) n-Undecane	26.42	57	53		N.D.	
94) 1,2,4-Trichlorobenzene	27.64	180	303		N.D.	
95) Naphthalene	27.78	128	3133		N.D.	
96) n-Dodecane	27.73	57	113		N.D.	
97) Hexachloro-1,3-butadiene	0.00	225	0		N.D.	

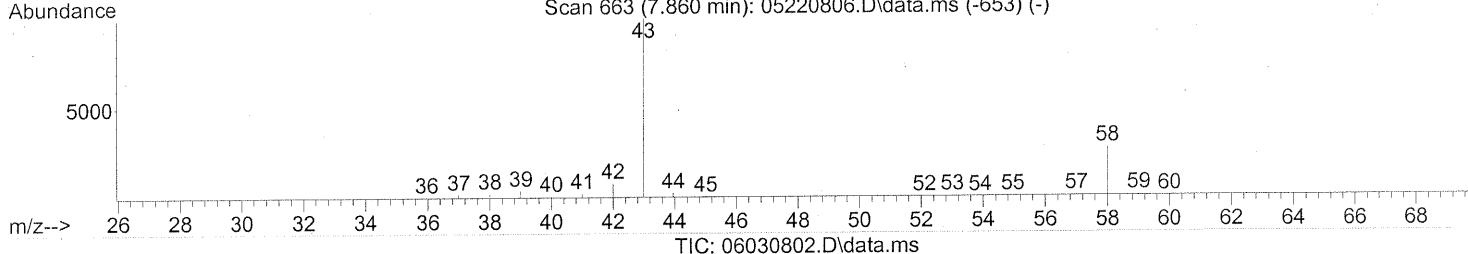
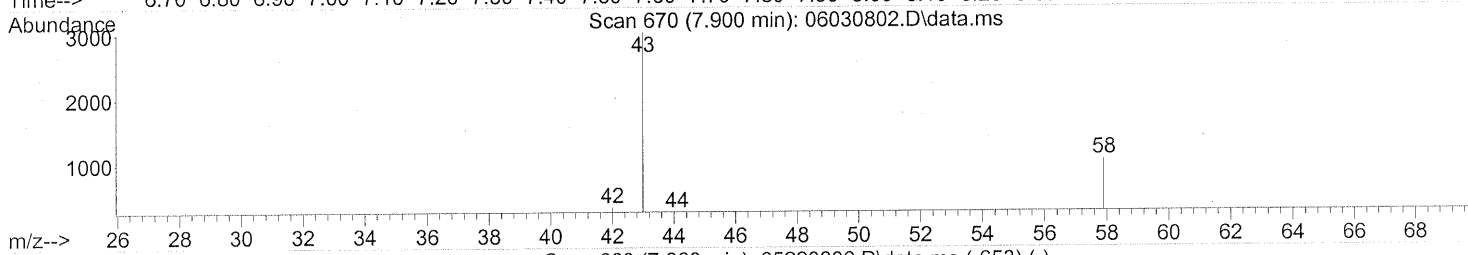
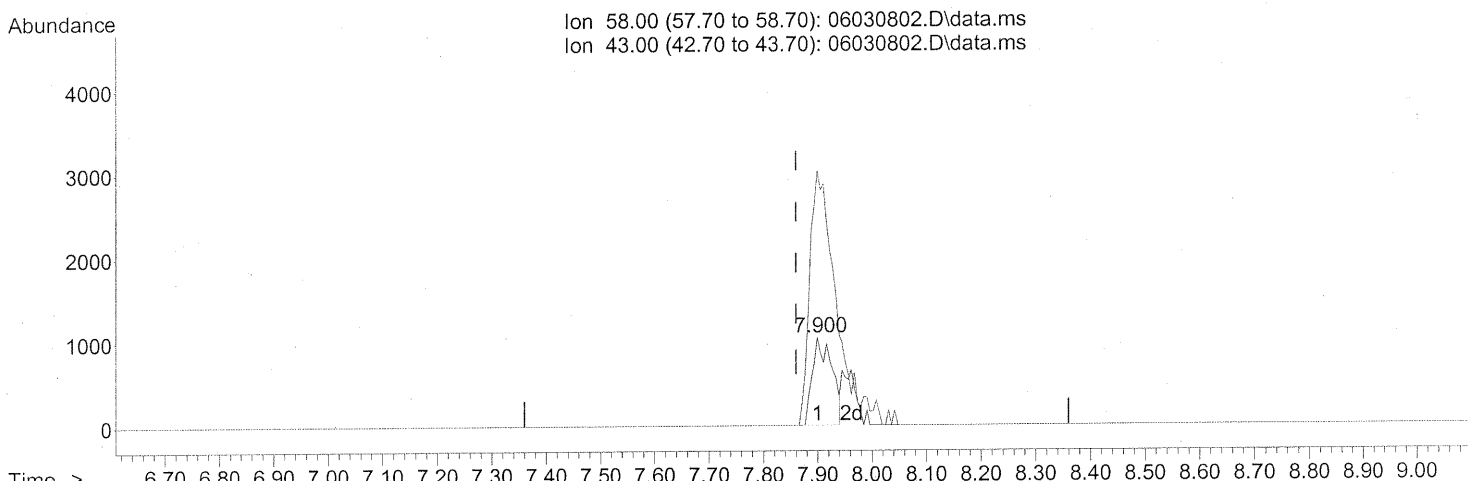
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*7/06/03/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030802.D  
 Acq On : 3 Jun 2008 9:08 am  
 Operator : RTB  
 Sample : TO-15 Method Blank (1.0L)  
 Misc : S20-06020803  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:06:47 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(13) Acetone (T)

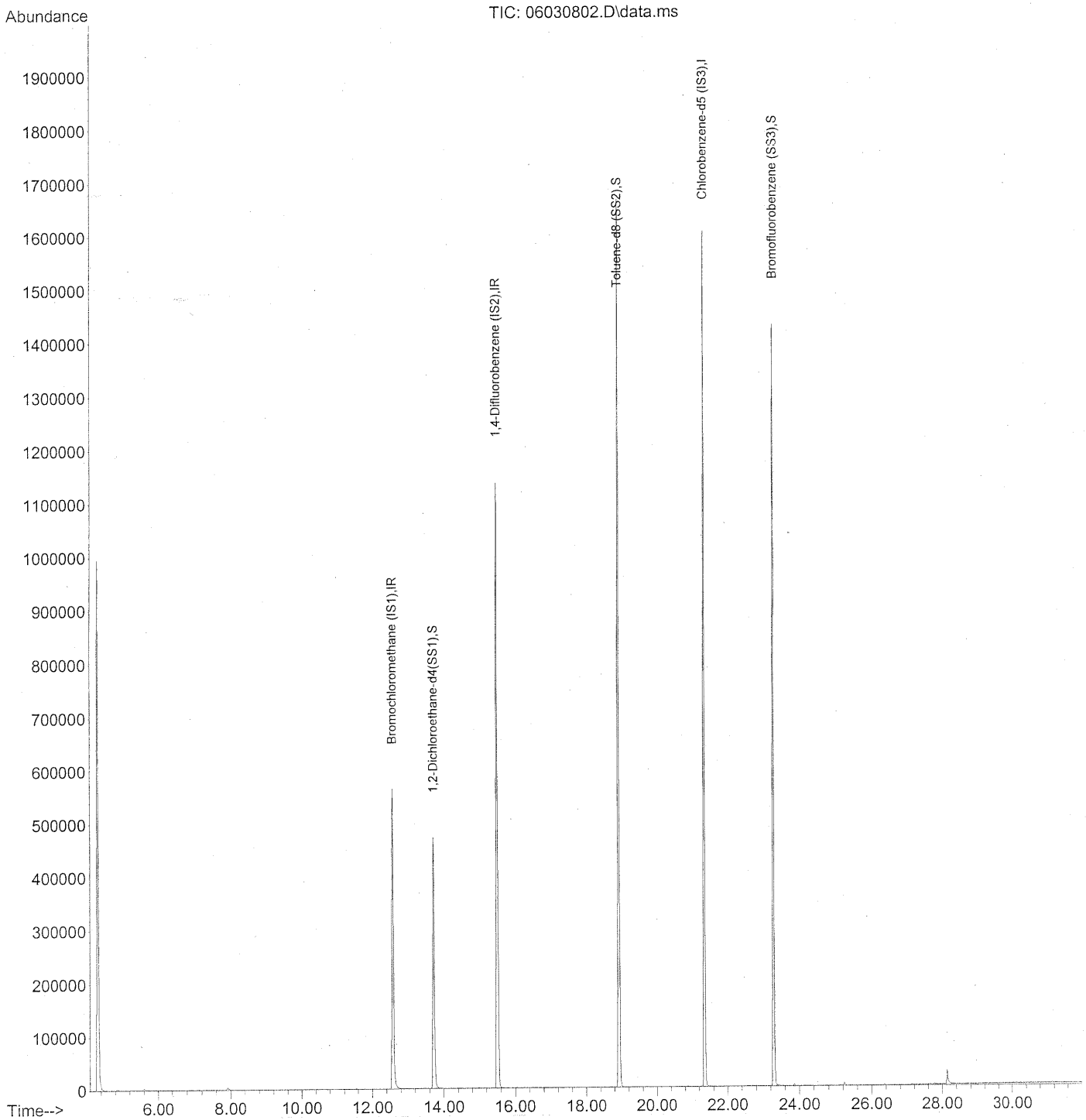
7.900min (+0.040) 0.16ng

response 2583

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	378.94#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030802.D  
Acq On : 3 Jun 2008 9:08 am  
Operator : RTB  
Sample : TO-15 Method Blank (1.0L)  
Misc : S20-06020803  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:42:16 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030802.D  
 Acq On : 3 Jun 2008 9:08 am  
 Operator : RTB  
 Sample : TO-15 Method Blank (1.0L)  
 Misc : S20-06020803  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:42:16 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)	
1) Bromochloromethane (IS1)	12.58	130	309051	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1343195	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	634768	25.000	ng	-0.01	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	495102	23.120	ng	-0.03	
Spiked Amount	25.000		Recovery	=	92.48%	✓	
5) Toluene-d8 (SS2)	18.92	98	1396372	24.494	ng	-0.02	
Spiked Amount	25.000		Recovery	=	97.96%	✓	
6) Bromofluorobenzene (SS3)	23.29	174	559402	24.130	ng	0.00	
Spiked Amount	25.000		Recovery	=	96.52%	✓	
Target Compounds							Qvalue
7) tert-Butylbenzene	24.68	119	56		N.D.		
8) n-Butylbenzene	0.00	91	0		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:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo/Wida Ang  
**Sampling Media:** 6.0 L Summa Canister(s)  
**Test Notes:**

**Date(s) Collected:** 5/21 - 5/22/08  
**Date(s) Received:** 5/23/08  
**Date(s) Analyzed:** 5/30 - 6/3/08

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	P080530-MB	95	70-130	98	70-130	101	70-130	
Method Blank	P080602-MB	92	70-130	98	70-130	103	70-130	
Method Blank	P080603-MB	92	70-130	98	70-130	97	70-130	
Lab Control Sample	P080530-LCS	93	70-130	99	70-130	102	70-130	
Lab Control Sample	P080602-LCS	91	70-130	100	70-130	99	70-130	
Lab Control Sample	P080603-LCS	91	70-130	97	70-130	98	70-130	
SG91B-05	P0801548-001	94	70-130	100	70-130	102	70-130	
SG93B-05	P0801548-002	92	70-130	100	70-130	101	70-130	
SG46B-05	P0801548-003	94	70-130	97	70-130	103	70-130	
SG68B-05	P0801548-004	92	70-130	100	70-130	105	70-130	
SG68B-05	P0801548-004DUP	90	70-130	99	70-130	102	70-130	
SG67B-05	P0801548-005	92	70-130	100	70-130	103	70-130	
SG51B-05	P0801548-006	83	70-130	101	70-130	103	70-130	
SG51B-05D	P0801548-007	87	70-130	102	70-130	103	70-130	
SG42B-05	P0801548-008	88	70-130	100	70-130	104	70-130	
SG69B-05	P0801548-009	94	70-130	100	70-130	100	70-130	
SG48B-05	P0801548-010	88	70-130	99	70-130	102	70-130	
SG47B-05	P0801548-011	89	70-130	100	70-130	105	70-130	
SG53B-05	P0801548-012	90	70-130	97	70-130	97	70-130	
SG53B-05D	P0801548-013	88	70-130	98	70-130	98	70-130	
SG49B-05	P0801548-014	90	70-130	95	70-130	97	70-130	
SG66B-05	P0801548-015	88	70-130	97	70-130	98	70-130	
SG50B-05	P0801548-016	89	70-130	95	70-130	97	70-130	
SG45B-05	P0801548-017	92	70-130	96	70-130	99	70-130	
SG54B-05	P0801548-018	92	70-130	99	70-130	94	70-130	
SG87B-05	P0801548-019	90	70-130	96	70-130	99	70-130	

Verified By: CA Date: 6/10/08 **1183**

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.2	79	69-117	
74-87-3	Chloromethane	24.5	20.5	84	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	21.8	84	58-133	
75-01-4	Vinyl Chloride	24.8	20.9	84	61-127	
74-83-9	Bromomethane	25.0	22.5	90	67-124	
75-00-3	Chloroethane	25.0	22.1	88	69-123	
64-17-5	Ethanol	23.8	20.0	84	56-137	
67-64-1	Acetone	26.8	21.6	81	63-116	
75-69-4	Trichlorofluoromethane	26.3	21.9	83	71-120	
107-13-1	Acrylonitrile	25.5	23.3	91	74-129	
75-35-4	1,1-Dichloroethene	27.8	24.1	87	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.1	93	35-141	
75-09-2	Methylene Chloride	27.8	22.9	82	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.5	106	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.0	86	63-129	
75-15-0	Carbon Disulfide	25.0	20.7	83	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	23.6	89	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.4	87	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.4	87	72-119	
108-05-4	Vinyl Acetate	25.3	29.1	115	32-163	
78-93-3	2-Butanone (MEK)	27.0	23.4	87	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.1	86	74-117	
108-20-3	Diisopropyl Ether	26.3	22.8	87	70-131	
67-66-3	Chloroform	29.8	26.1	88	72-113	

Verified By: CA Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.1	89	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.0	84	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.2	87	78-114	
71-43-2	Benzene	27.0	23.4	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	24.0	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.7	91	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.2	88	78-117	
75-27-4	Bromodichloromethane	27.8	25.4	91	77-120	
79-01-6	Trichloroethene	27.3	22.3	82	80-116	
123-91-1	1,4-Dioxane	27.5	24.6	89	79-122	
80-62-6	Methyl Methacrylate	25.8	25.0	97	79-128	
142-82-5	n-Heptane	26.8	23.9	89	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.5	94	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.6	86	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.6	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.7	90	80-117	
108-88-3	Toluene	26.5	23.4	88	76-116	
591-78-6	2-Hexanone	26.3	23.1	88	69-131	
124-48-1	Dibromochloromethane	27.0	25.9	96	80-128	
106-93-4	1,2-Dibromoethane	26.3	24.4	93	79-122	
111-65-9	n-Octane	26.0	23.6	91	78-122	
127-18-4	Tetrachloroethene	26.0	23.4	90	77-118	
108-90-7	Chlorobenzene	26.5	23.7	89	78-117	

Verified By: CA Date: 6/10/08

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**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080530-LCS

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

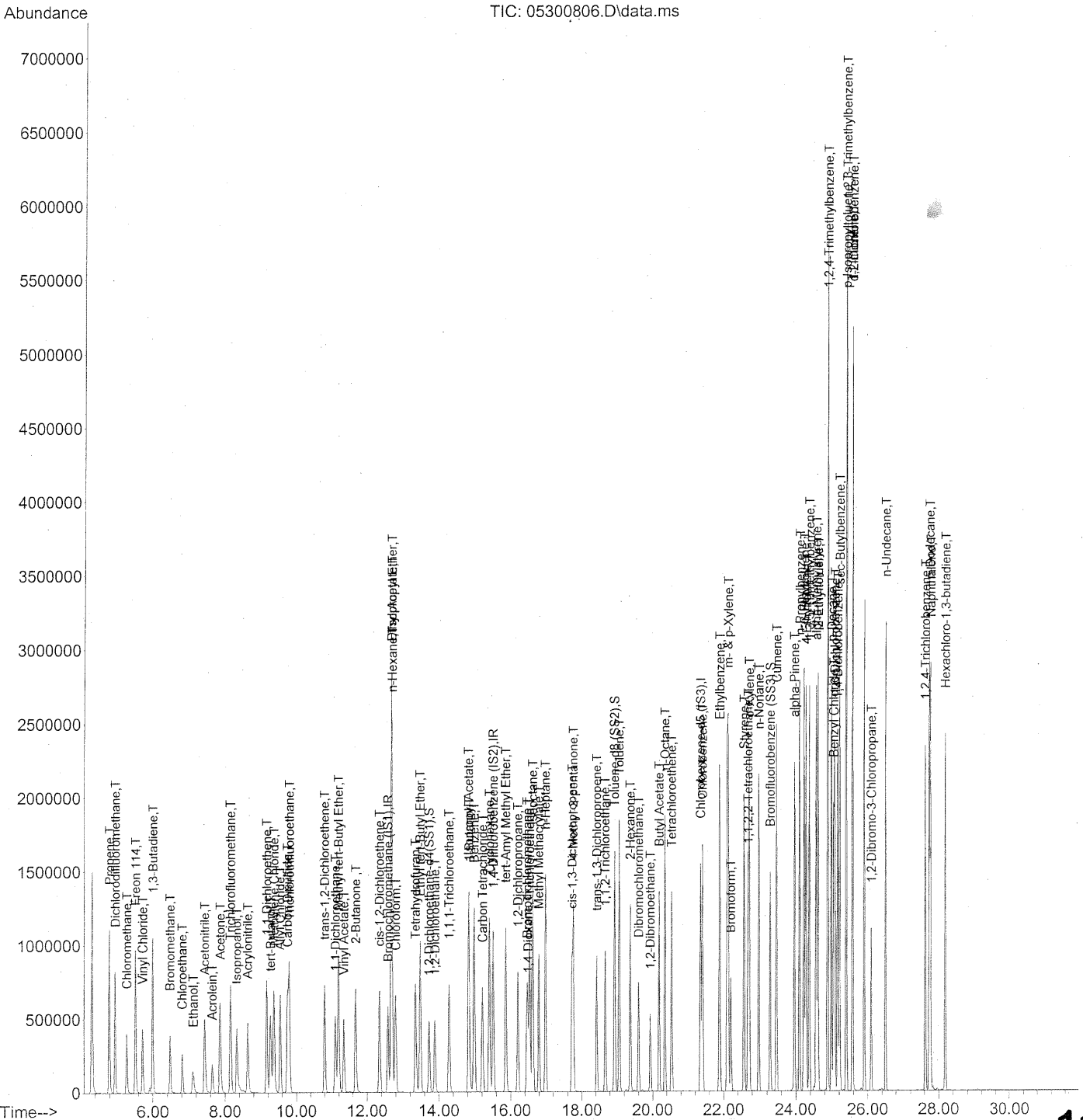
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	24.0	91	79-116	
179601-23-1	m,p-Xylenes	62.5	56.7	91	80-117	
75-25-2	Bromoform	31.3	32.7	104	77-128	
100-42-5	Styrene	26.3	24.7	94	80-124	
95-47-6	o-Xylene	29.8	26.7	90	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.3	98	79-120	
98-82-8	Cumene	27.0	24.6	91	81-119	
103-65-1	n-Propylbenzene	26.3	24.5	93	82-120	
622-96-8	4-Ethyltoluene	26.5	24.6	93	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.6	91	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.5	96	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.4	94	80-122	
100-44-7	Benzyl Chloride	25.8	29.0	112	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	23.9	94	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.5	93	81-119	
135-98-8	sec-Butylbenzene	26.8	24.8	93	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.2	98	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	23.9	93	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	27.3	106	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	25.3	97	75-138	
91-20-3	Naphthalene	26.3	25.4	97	76-143	
87-68-3	Hexachlorobutadiene	26.3	24.6	94	72-128	
98-06-6	tert-Butylbenzene	26.3	24.7	94	70-130	
104-51-8	n-Butylbenzene	26.8	25.0	93	70-130	

Verified By:          Date: 6/10/08 **1186**

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300806.D  
Acq On : 30 May 2008 11:46  
Operator : WA  
Sample : 25ng TO-15 LCS  
Misc : S20-05160801/S20-05290805  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 13:23:11 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300806.D  
 Acq On : 30 May 2008 11:46  
 Operator : WA  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 13:23:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	305755	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	1292603	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	609812	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.73	65	494600	23.346	ng	0.00
Spiked Amount	25.000		Recovery	= 93.40%		
57) Toluene-d8 (SS2)	18.93	98	1360967	24.850	ng	0.00
Spiked Amount	25.000		Recovery	= 99.40%		
73) Bromofluorobenzene (SS3)	23.29	174	565563	25.395	ng	0.00
Spiked Amount	25.000		Recovery	= 101.56%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	513414	21.261	ng	90
3) Dichlorodifluoromethane	4.96	85	899374	20.206	ng	100
4) Chloromethane	5.28	50	590096	20.474	ng	97
5) Freon 114	5.52	135	477980	21.830	ng	99
6) Vinyl Chloride	5.72	62	603149	20.915	ng	97
7) 1,3-Butadiene	6.00	54	602059	28.067	ng	# 79
8) Bromomethane	6.48	94	361469	22.507	ng	99
9) Chloroethane	6.82	64	302056	22.050	ng	96
10) Ethanol	7.12	45	321972	20.028	ng	95
11) Acetonitrile	7.43	41	902778	19.419	ng	96
12) Acrolein	7.64	56	256104	22.301	ng	98
13) Acetone	7.87	58	355981	21.628	ng	# 66
14) Trichlorofluoromethane	8.14	101	836529	21.906	ng	99
15) Isopropanol	8.32	45	1072438	20.430	ng	94
16) Acrylonitrile	8.63	53	582953	23.261	ng	96
17) 1,1-Dichloroethene	9.16	96	405005	24.110	ng	# 78
18) tert-Butanol	9.27	59	1075094	24.078	ng	92
19) Methylene Chloride	9.36	84	421647	22.922	ng	# 79
20) Allyl Chloride	9.54	41	700391	28.536	ng	100
21) Trichlorotrifluoroethane	9.81	151	416012	23.955	ng	92
22) Carbon Disulfide	9.75	76	1442687	20.668	ng	97
23) trans-1,2-Dichloroethene	10.80	61	642492	23.613	ng	84
24) 1,1-Dichloroethane	11.10	63	746739	23.395	ng	95
25) Methyl tert-Butyl Ether	11.19	73	1247330	23.435	ng	86
26) Vinyl Acetate	11.35	86	88416	29.066	ng	# 82
27) 2-Butanone	11.68	72	281229	23.410	ng	# 92
28) cis-1,2-Dichloroethene	12.35	61	601677	23.137	ng	83
29) Diisopropyl Ether	12.69	87	334920	22.752	ng	# 83
30) Ethyl Acetate	12.69	61	169131	26.081	ng	78
31) n-Hexane	12.70	57	767608	23.458	ng	89

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@ 5/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300806.D  
 Acq On : 30 May 2008 11:46  
 Operator : WA  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 13:23:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.80	83	726413	26.054	ng	100
34) Tetrahydrofuran	13.35	72	267670	23.307	ng	93
35) Ethyl tert-Butyl Ether	13.48	87	476972	23.138	ng #	74
36) 1,2-Dichloroethane	13.90	62	591629	21.964	ng	98
38) 1,1,1-Trichloroethane	14.29	97	683284	23.211	ng	96
39) Isopropyl Acetate	14.83	61	276150	25.012	ng #	51
40) 1-Butanol	14.84	56	397060	22.348	ng #	64
41) Benzene	14.99	78	1586681	23.444	ng	100
42) Carbon Tetrachloride	15.22	117	626546	24.038	ng	100
43) Cyclohexane	15.41	84	613709	23.310	ng #	75
44) tert-Amyl Methyl Ether	15.87	73	1152105	23.730	ng	94
45) 1,2-Dichloropropane	16.20	63	419826	23.183	ng	98
46) Bromodichloromethane	16.46	83	581663	25.425	ng	99
47) Trichloroethene	16.54	130	462719	22.287	ng	100
48) 1,4-Dioxane	16.49	88	314303	24.621	ng	80
49) Isooctane	16.62	57	1806283	23.278	ng	82
50) Methyl Methacrylate	16.79	100	169170	25.013	ng	92
51) n-Heptane	16.98	71	429997	23.910	ng #	79
52) cis-1,3-Dichloropropene	17.73	75	633025	23.530	ng	99
53) 4-Methyl-2-pentanone	17.77	58	424499	23.623	ng	79
54) trans-1,3-Dichloropropene	18.43	75	640978	27.618	ng	100
55) 1,1,2-Trichloroethane	18.67	97	396935	23.733	ng	97
58) Toluene	19.06	91	1740497	23.379	ng	98
59) 2-Hexanone	19.37	43	1184412	23.089	ng	84
60) Dibromochloromethane	19.60	129	519931	25.858	ng	99
61) 1,2-Dibromoethane	19.93	107	475389	24.396	ng	100
62) Butyl Acetate	20.19	43	1305893	25.081	ng	87
63) n-Octane	20.35	57	389111	23.634	ng	90
64) Tetrachloroethene	20.54	166	515683	23.410	ng	100
65) Chlorobenzene	21.41	112	1182731	23.698	ng	99
66) Ethylbenzene	21.89	91	2046801	23.978	ng	94
67) m- & p-Xylene	22.12	91	3235677	56.668	ng	93
68) Bromoform	22.21	173	488822	32.670	ng	99
69) Styrene	22.57	104	1262845	24.742	ng	98
70) o-Xylene	22.72	91	1643919	26.671	ng	94
71) n-Nonane	22.98	43	1020789	23.324	ng #	83
72) 1,1,2,2-Tetrachloroethane	22.68	83	753942	29.349	ng	98
74) Cumene	23.47	105	2016767	24.571	ng	99
75) alpha-Pinene	23.96	93	1028872	24.243	ng	97
76) n-Propylbenzene	24.10	91	2553932	24.454	ng	98
77) 3-Ethyltoluene	24.23	105	2087298	23.892	ng	100
78) 4-Ethyltoluene	24.28	105	2000088	24.557	ng	100
79) 1,3,5-Trimethylbenzene	24.37	105	1734150	23.568	ng	100

@ 5/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300806.D  
 Acq On : 30 May 2008 11:46  
 Operator : WA  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 30 13:23:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

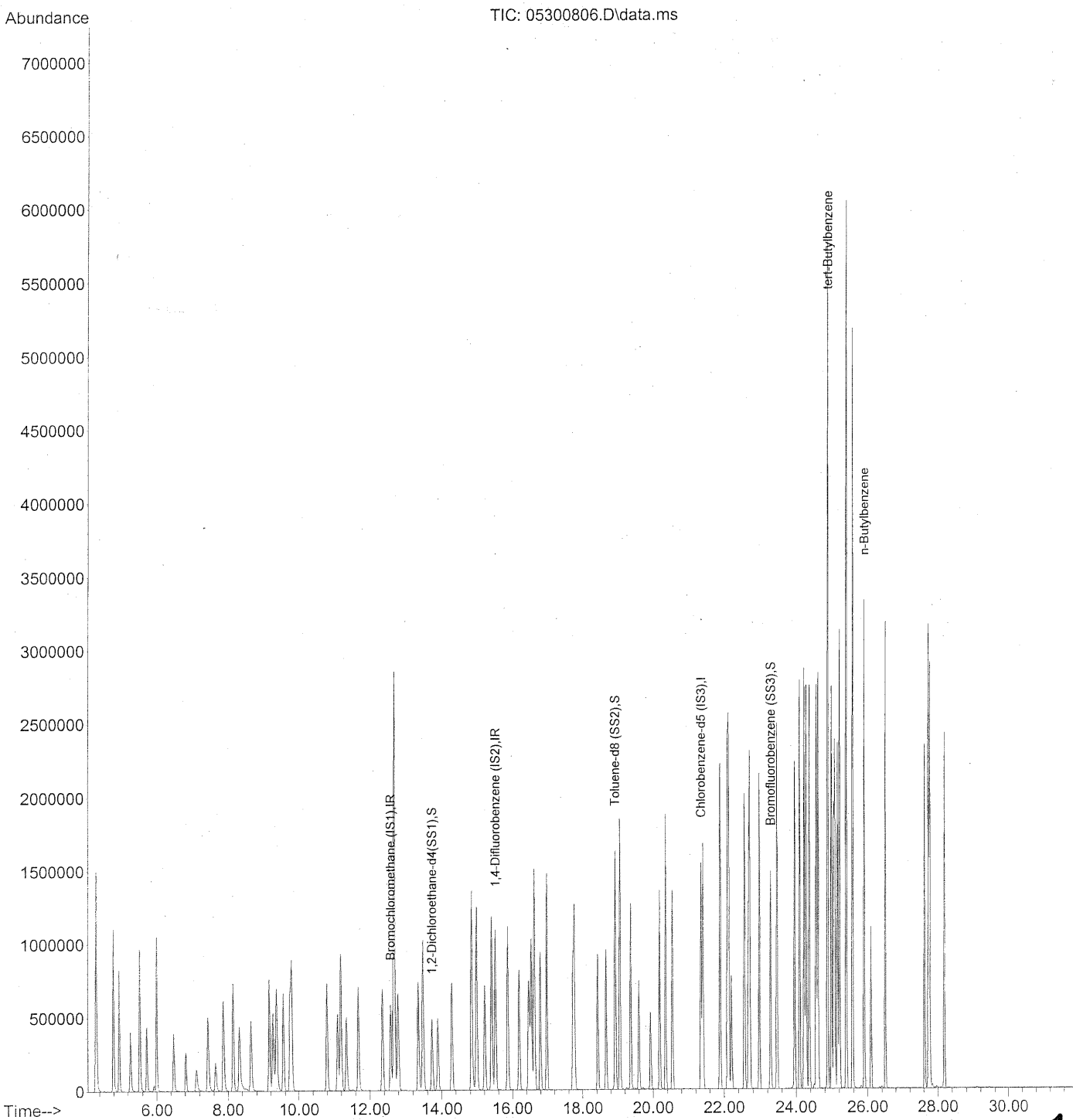
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	976643	24.516	ng	98
81) 2-Ethyltoluene	24.61	105	2062029	23.289	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	1828237	24.404	ng	100
83) n-Decane	24.98	57	1003744	24.352	ng	85
84) Benzyl Chloride	25.05	91	1455753	28.960	ng	99
85) 1,3-Dichlorobenzene	25.08	146	1120960	23.933	ng	99
86) 1,4-Dichlorobenzene	25.15	146	1112935	24.511	ng	99
87) sec-Butylbenzene	25.21	105	2378617	24.842	ng	98
88) p-Isopropyltoluene	25.40	119	2221579	28.186	ng	96
89) 1,2,3-Trimethylbenzene	25.41	105	1924583	26.256	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1063096	23.932	ng	100
91) d-Limonene	25.58	68	720581	24.144	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.11	157	376110	27.283	ng	95
93) n-Undecane	26.50	57	1065991	24.711	ng	84
94) 1,2,4-Trichlorobenzene	27.62	180	824503	25.342	ng	96
95) Naphthalene	27.77	128	2509775	25.400	ng	99
96) n-Dodecane	27.74	57	1049937	24.474	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	531910	24.559	ng	99

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

@ 5/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300806.D  
 Acq On : 30 May 2008 11:46 am  
 Operator : WA  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 12:58:08 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300806.D  
 Acq On : 30 May 2008 11:46 am  
 Operator : WA  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 12:58:08 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	305755	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	1292603	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	609812	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.73	65	494600	23.346	ng	-0.02
Spiked Amount	25.000			Recovery =	93.40%	✓
5) Toluene-d8 (SS2)	18.93	98	1360967	24.850	ng	-0.01
Spiked Amount	25.000			Recovery =	99.40%	✓
6) Bromofluorobenzene (SS3)	23.29	174	565563	25.395	ng	0.00
Spiked Amount	25.000			Recovery =	101.56%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	1765525	24.655	ng	99
8) n-Butylbenzene	25.91	91	1981787	25.025	ng	98

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

*F 05/04/08*



**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/02/08  
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	25.5	20.9	82	69-117	
74-87-3	Chloromethane	24.5	20.5	84	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	22.7	87	58-133	
75-01-4	Vinyl Chloride	24.8	21.5	87	61-127	
74-83-9	Bromomethane	25.0	23.6	94	67-124	
75-00-3	Chloroethane	25.0	23.2	93	69-123	
64-17-5	Ethanol	23.8	20.3	85	56-137	
67-64-1	Acetone	26.8	22.1	82	63-116	
75-69-4	Trichlorofluoromethane	26.3	22.5	86	71-120	
107-13-1	Acrylonitrile	25.5	23.7	93	74-129	
75-35-4	1,1-Dichloroethene	27.8	25.1	90	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	24.8	96	35-141	
75-09-2	Methylene Chloride	27.8	23.4	84	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	28.9	108	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	24.8	89	63-129	
75-15-0	Carbon Disulfide	25.0	21.6	86	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	24.1	91	74-118	
75-34-3	1,1-Dichloroethane	26.8	23.8	89	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	23.9	89	72-119	
108-05-4	Vinyl Acetate	25.3	30.2	119	32-163	
78-93-3	2-Butanone (MEK)	27.0	24.3	90	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	23.6	87	74-117	
108-20-3	Diisopropyl Ether	26.3	23.2	88	70-131	
67-66-3	Chloroform	29.8	26.8	90	72-113	

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

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

Date Collected: NA  
 Date Received: NA  
 Date Analyzed: 6/02/08  
 Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	23.7	91	74-123	
107-06-2	1,2-Dichloroethane	26.3	22.3	85	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	23.2	87	78-114	
71-43-2	Benzene	27.0	23.4	87	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.9	92	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.9	92	81-118	
78-87-5	1,2-Dichloropropane	26.5	23.4	88	78-117	
75-27-4	Bromodichloromethane	27.8	25.6	92	77-120	
79-01-6	Trichloroethene	27.3	22.9	84	80-116	
123-91-1	1,4-Dioxane	27.5	25.2	92	79-122	
80-62-6	Methyl Methacrylate	25.8	25.2	98	79-128	
142-82-5	n-Heptane	26.8	24.0	90	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.8	95	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.1	84	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	27.7	99	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.6	90	80-117	
108-88-3	Toluene	26.5	24.2	91	76-116	
591-78-6	2-Hexanone	26.3	23.1	88	69-131	
124-48-1	Dibromochloromethane	27.0	26.6	99	80-128	
106-93-4	1,2-Dibromoethane	26.3	25.1	95	79-122	
111-65-9	n-Octane	26.0	24.3	93	78-122	
127-18-4	Tetrachloroethene	26.0	24.6	95	77-118	
108-90-7	Chlorobenzene	26.5	24.4	92	78-117	

Verified By: CA Date: 6/10/08 **1194**

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080602-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

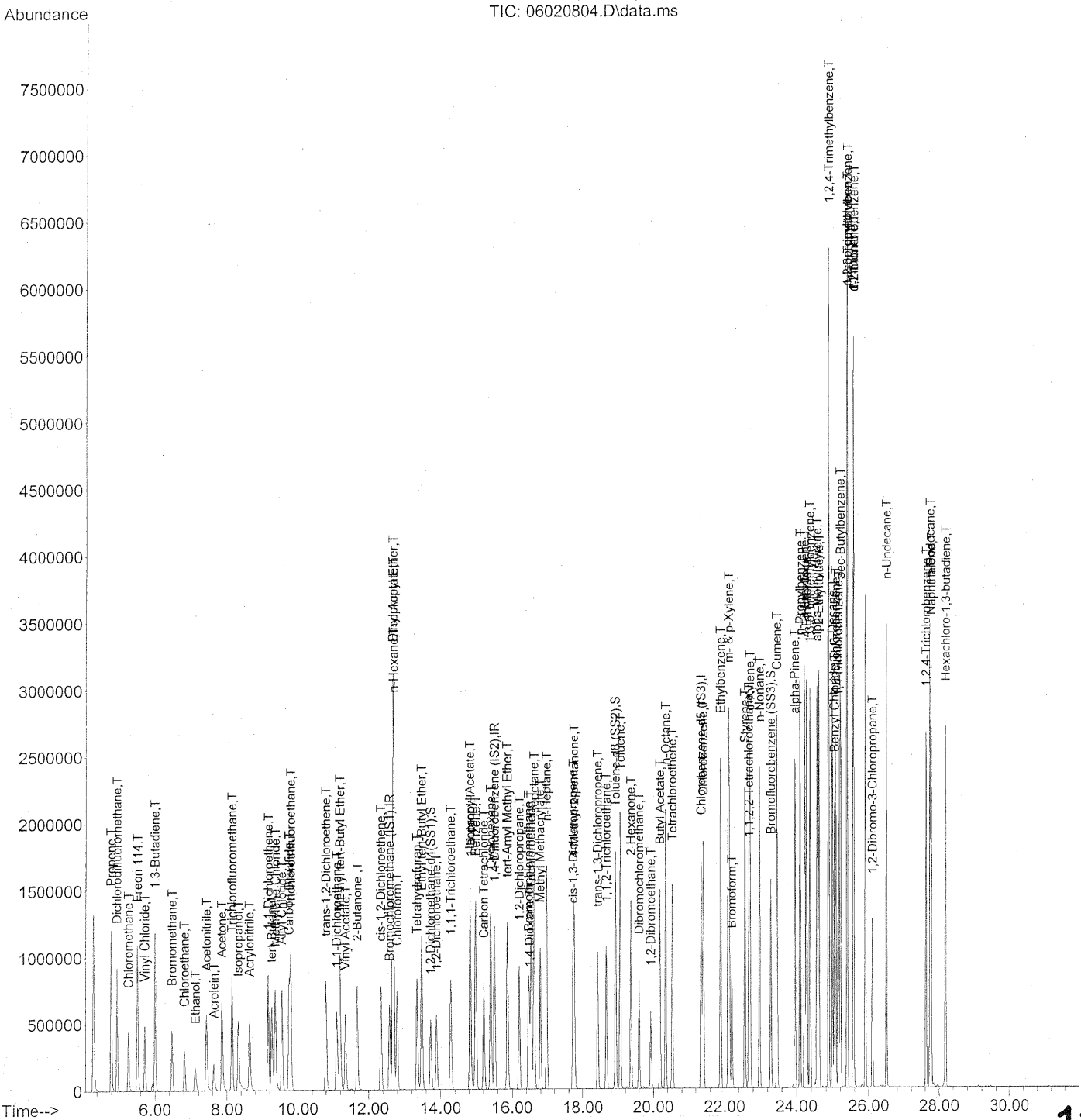
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/02/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	24.3	92	79-116	
179601-23-1	m,p-Xylenes	62.5	57.4	92	80-117	
75-25-2	Bromoform	31.3	33.5	107	77-128	
100-42-5	Styrene	26.3	25.1	95	80-124	
95-47-6	o-Xylene	29.8	27.2	91	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	29.9	100	79-120	
98-82-8	Cumene	27.0	25.1	93	81-119	
103-65-1	n-Propylbenzene	26.3	24.7	94	82-120	
622-96-8	4-Ethyltoluene	26.5	24.9	94	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	23.9	92	80-120	
98-83-9	alpha-Methylstyrene	25.5	24.7	97	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	24.5	94	80-122	
100-44-7	Benzyl Chloride	25.8	29.8	116	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	24.2	95	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	24.9	95	81-119	
135-98-8	sec-Butylbenzene	26.8	24.9	93	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	28.4	99	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	24.3	94	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	28.4	110	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	26.2	101	75-138	
91-20-3	Naphthalene	26.3	26.0	99	76-143	
87-68-3	Hexachlorobutadiene	26.3	25.6	97	72-128	
98-06-6	tert-Butylbenzene	26.3	24.9	95	70-130	
104-51-8	n-Butylbenzene	26.8	25.1	94	70-130	

Verified By: CA Date: 6/10/08 **1195**

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020804.D  
Acq On : 2 Jun 2008 11:21 am  
Operator : RTB  
Sample : 25ng TO-15 LCS  
Misc : S20-05160801/S20-05290805  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 02 11:53:16 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020804.D  
 Acq On : 2 Jun 2008 11:21 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 02 11:53:16 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	341818	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	1474398	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	669226	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.73	65	540626	22.826	ng	0.00
Spiked Amount	25.000		Recovery	=	91.32%	✓
57) Toluene-d8 (SS2)	18.93	98	1503486	25.015	ng	0.00
Spiked Amount	25.000		Recovery	=	100.08%	✓
73) Bromofluorobenzene (SS3)	23.29	174	603288	24.684	ng	0.00
Spiked Amount	25.000		Recovery	=	98.72%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	575645	21.323	ng	90
3) Dichlorodifluoromethane	4.95	85	1040856	20.918	ng	100
4) Chloromethane	5.27	50	660757	20.507	ng	97
5) Freon 114	5.52	135	556761	22.746	ng	100
6) Vinyl Chloride	5.72	62	694045	21.528	ng	96
7) 1,3-Butadiene	5.99	54	685994	28.606	ng	# 79
8) Bromomethane	6.48	94	423963	23.614	ng	98
9) Chloroethane	6.82	64	354597	23.154	ng	96
10) Ethanol	7.12	45	365705	20.348	ng	95
11) Acetonitrile	7.43	41	1009319	19.420	ng	97
12) Acrolein	7.64	56	286632	22.326	ng	97
13) Acetone	7.86	58	406828	22.109	ng	# 68
14) Trichlorofluoromethane	8.14	101	959155	22.467	ng	100
15) Isopropanol	8.32	45	1219725	20.784	ng	95
16) Acrylonitrile	8.63	53	663158	23.669	ng	98
17) 1,1-Dichloroethene	9.16	96	471964	25.132	ng	# 75
18) tert-Butanol	9.26	59	1237952	24.801	ng	98
19) Methylene Chloride	9.36	84	480352	23.358	ng	# 76
20) Allyl Chloride	9.54	41	793957	28.935	ng	99
21) Trichlorotrifluoroethane	9.80	151	481494	24.801	ng	92
22) Carbon Disulfide	9.76	76	1683337	21.571	ng	96
23) trans-1,2-Dichloroethene	10.80	61	731657	24.053	ng	82
24) 1,1-Dichloroethane	11.10	63	850163	23.825	ng	96
25) Methyl tert-Butyl Ether	11.19	73	1424054	23.932	ng	85
26) Vinyl Acetate	11.34	86	102695	30.198	ng	# 80
27) 2-Butanone	11.68	72	326193	24.289	ng	# 87
28) cis-1,2-Dichloroethene	12.35	61	685700	23.587	ng	81
29) Diisopropyl Ether	12.69	87	381744	23.197	ng	# 77
30) Ethyl Acetate	12.69	61	190198	26.235	ng	75
31) n-Hexane	12.70	57	851512	23.277	ng	88

*06/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020804.D  
 Acq On : 2 Jun 2008 11:21 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 02 11:53:16 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.80	83	834396	26.770	ng	100
34) Tetrahydrofuran	13.35	72	310876	24.213	ng #	88
35) Ethyl tert-Butyl Ether	13.48	87	546753	23.725	ng #	74
36) 1,2-Dichloroethane	13.89	62	672717	22.339	ng	98
38) 1,1,1-Trichloroethane	14.29	97	780276	23.238	ng	96
39) Isopropyl Acetate	14.83	61	312754	24.834	ng #	54
40) 1-Butanol	14.84	56	450919	22.250	ng #	67
41) Benzene	14.99	78	1804158	23.370	ng	100
42) Carbon Tetrachloride	15.21	117	709774	23.873	ng	99
43) Cyclohexane	15.41	84	703688	23.432	ng #	73
44) tert-Amyl Methyl Ether	15.87	73	1323399	23.897	ng	94
45) 1,2-Dichloropropane	16.20	63	484309	23.446	ng	99
46) Bromodichloromethane	16.46	83	669111	25.641	ng	99
47) Trichloroethene	16.54	130	543291	22.941	ng	98
48) 1,4-Dioxane	16.49	88	367617	25.247	ng	79
49) Isooctane	16.62	57	2056963	23.240	ng	84
50) Methyl Methacrylate	16.80	100	194249	25.180	ng	93
51) n-Heptane	16.98	71	492046	23.987	ng #	79
52) cis-1,3-Dichloropropene	17.73	75	731658	23.842	ng	99
53) 4-Methyl-2-pentanone	17.77	58	474046	23.128	ng	77
54) trans-1,3-Dichloropropene	18.43	75	732079	27.654	ng	99
55) 1,1,2-Trichloroethane	18.67	97	450511	23.615	ng	97
58) Toluene	19.07	91	1974846	24.172	ng	98
59) 2-Hexanone	19.37	43	1303086	23.147	ng	84
60) Dibromochloromethane	19.60	129	587047	26.604	ng	99
61) 1,2-Dibromoethane	19.93	107	535862	25.058	ng	99
62) Butyl Acetate	20.19	43	1438530	25.175	ng	87
63) n-Octane	20.35	57	438370	24.262	ng	88
64) Tetrachloroethene	20.55	166	593651	24.557	ng	100
65) Chlorobenzene	21.41	112	1333671	24.350	ng	100
66) Ethylbenzene	21.89	91	2277602	24.313	ng	95
67) m- & p-Xylene	22.12	91	3594023	57.356	ng	93
68) Bromoform	22.21	173	550217	33.508	ng	99
69) Styrene	22.57	104	1405659	25.095	ng	98
70) o-Xylene	22.72	91	1838057	27.173	ng	94
71) n-Nonane	22.98	43	1122869	23.379	ng	84
72) 1,1,2,2-Tetrachloroethane	22.69	83	842391	29.881	ng	98
74) Cumene	23.46	105	2260128	25.092	ng	99
75) alpha-Pinene	23.96	93	1143171	24.545	ng	97
76) n-Propylbenzene	24.10	91	2826680	24.663	ng	99
77) 3-Ethyltoluene	24.23	105	2332114	24.324	ng	100
78) 4-Ethyltoluene	24.28	105	2226816	24.913	ng	100
79) 1,3,5-Trimethylbenzene	24.37	105	1933030	23.938	ng	100

*Handwritten signature*  
 6/2/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020804.D  
 Acq On : 2 Jun 2008 11:21 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 02 11:53:16 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

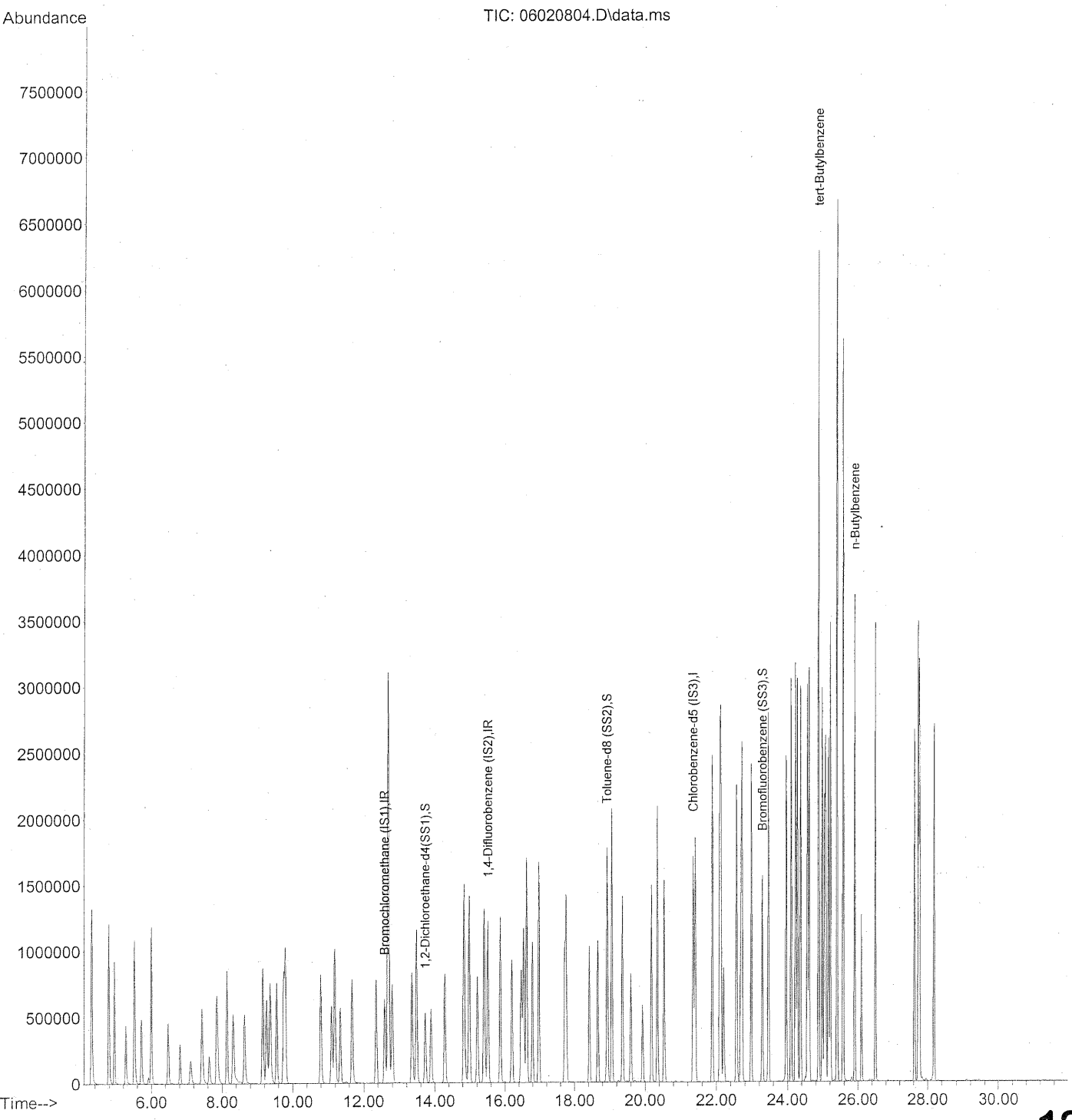
Internal Standards	R.T.	QI on	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1078755	24.675	ng	98
81) 2-Ethyltoluene	24.61	105	2276811	23.432	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	2011802	24.471	ng	100
83) n-Decane	24.98	57	1106713	24.467	ng	84
84) Benzyl Chloride	25.05	91	1642098	29.767	ng	99
85) 1,3-Dichlorobenzene	25.08	146	1242443	24.172	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1241911	24.924	ng	100
87) sec-Butylbenzene	25.21	105	2621235	24.945	ng	98
88) p-Isopropyltoluene	25.40	119	2454979	28.382	ng	96
89) 1,2,3-Trimethylbenzene	25.41	105	2125793	26.426	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1182393	24.255	ng	99
91) d-Limonene	25.58	68	781389	23.857	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.11	157	429194	28.369	ng	96
93) n-Undecane	26.50	57	1179708	24.920	ng	83
94) 1,2,4-Trichlorobenzene	27.63	180	936159	26.219	ng	96
95) Naphthalene	27.77	128	2816779	25.976	ng	98
96) n-Dodecane	27.74	57	1171000	24.872	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	607892	25.576	ng	99

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

*7/06/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020804.D  
Acq On : 2 Jun 2008 11:21 am  
Operator : RTB  
Sample : 25ng TO-15 LCS  
Misc : S20-05160801/S20-05290805  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 13:05:44 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020804.D  
 Acq On : 2 Jun 2008 11:21 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-05160801/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 13:05:44 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	341818	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	1474398	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	669226	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.73	65	540626	22.826	ng	-0.02
Spiked Amount	25.000		Recovery	=	91.32%	✓
5) Toluene-d8 (SS2)	18.93	98	1503486	25.015	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.08%	✓
6) Bromofluorobenzene (SS3)	23.29	174	603288	24.684	ng	0.00
Spiked Amount	25.000		Recovery	=	98.72%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	1959299	24.932	ng	98
8) n-Butylbenzene	25.91	91	2177398	25.054	ng	98

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

*P 06/04/08*



**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 2 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/03/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
637-92-3	Ethyl tert-Butyl Ether	26.0	23.0	88	74-123	
107-06-2	1,2-Dichloroethane	26.3	21.6	82	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	22.6	84	78-114	
71-43-2	Benzene	27.0	22.9	85	73-111	
56-23-5	Carbon Tetrachloride	26.0	23.3	90	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	23.2	89	81-118	
78-87-5	1,2-Dichloropropane	26.5	22.9	86	78-117	
75-27-4	Bromodichloromethane	27.8	24.8	89	77-120	
79-01-6	Trichloroethene	27.3	22.1	81	80-116	
123-91-1	1,4-Dioxane	27.5	24.6	89	79-122	
80-62-6	Methyl Methacrylate	25.8	24.5	95	79-128	
142-82-5	n-Heptane	26.8	23.5	88	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	23.1	92	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	23.1	84	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	26.8	96	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	23.5	89	80-117	
108-88-3	Toluene	26.5	22.5	85	76-116	
591-78-6	2-Hexanone	26.3	21.8	83	69-131	
124-48-1	Dibromochloromethane	27.0	24.8	92	80-128	
106-93-4	1,2-Dibromoethane	26.3	23.6	90	79-122	
111-65-9	n-Octane	26.0	22.6	87	78-122	
127-18-4	Tetrachloroethene	26.0	22.6	87	77-118	
108-90-7	Chlorobenzene	26.5	22.8	86	78-117	

Verified By:          Date: 6/10/08 **1203**

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY CONTROL SAMPLE SUMMARY

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** Lab Control Sample  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P080603-LCS

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Rusty Bravo  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**

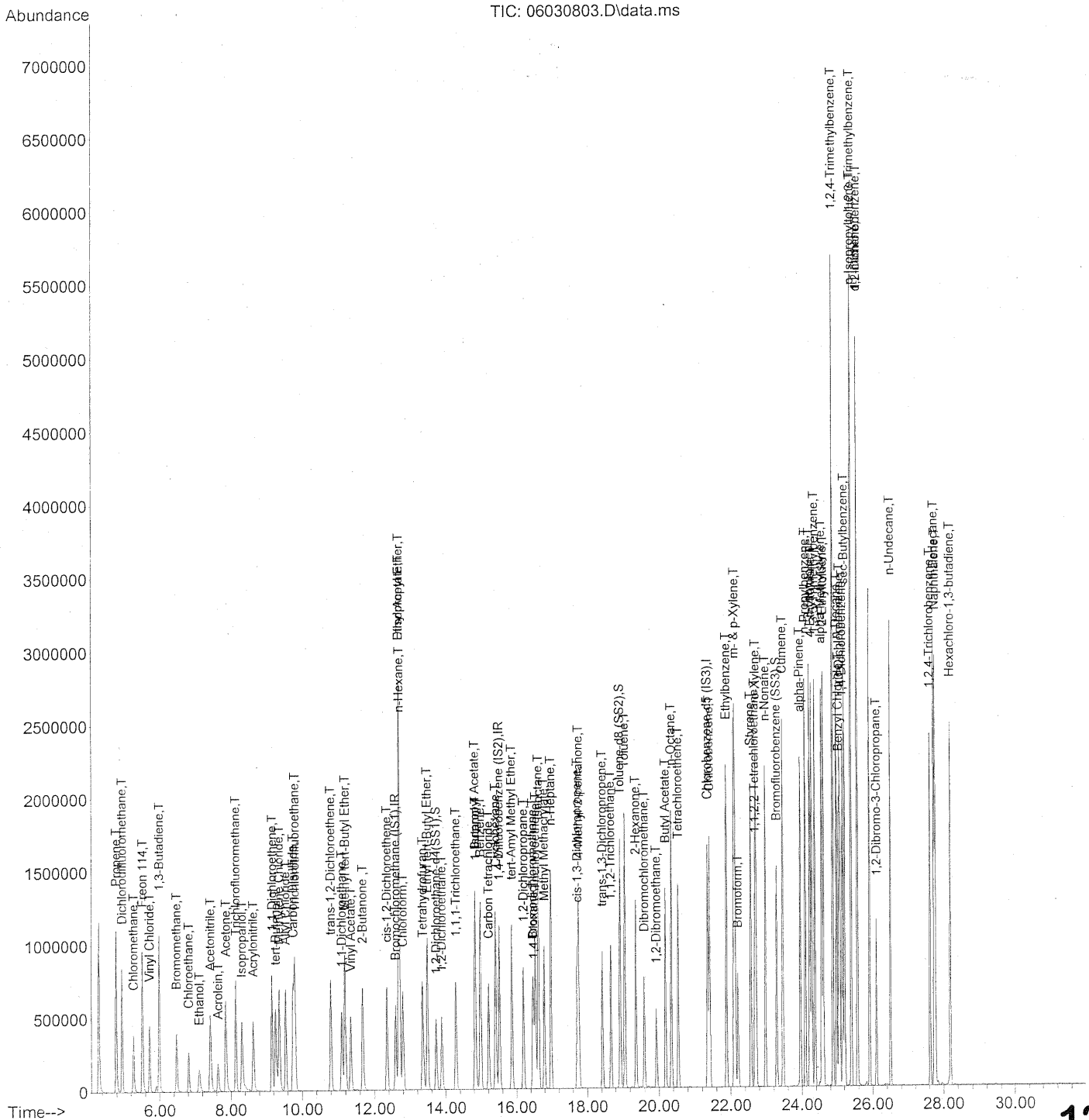
**Date Collected:** NA  
**Date Received:** NA  
**Date Analyzed:** 6/03/08  
**Volume(s) Analyzed:** NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS	Data Qualifier
					Acceptance Limits	
100-41-4	Ethylbenzene	26.3	22.8	87	79-116	
179601-23-1	m,p-Xylenes	62.5	53.4	85	80-117	
75-25-2	Bromoform	31.3	31.1	99	77-128	
100-42-5	Styrene	26.3	23.4	89	80-124	
95-47-6	o-Xylene	29.8	25.3	85	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	28.2	95	79-120	
98-82-8	Cumene	27.0	23.4	87	81-119	
103-65-1	n-Propylbenzene	26.3	23.1	88	82-120	
622-96-8	4-Ethyltoluene	26.5	23.3	88	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	22.4	86	80-120	
98-83-9	alpha-Methylstyrene	25.5	23.1	91	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	22.8	88	80-122	
100-44-7	Benzyl Chloride	25.8	27.4	106	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	22.6	89	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	23.3	89	81-119	
135-98-8	sec-Butylbenzene	26.8	23.4	87	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	26.5	92	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	22.6	88	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	26.3	102	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	24.4	94	75-138	
91-20-3	Naphthalene	26.3	24.4	93	76-143	
87-68-3	Hexachlorobutadiene	26.3	23.9	91	72-128	
98-06-6	tert-Butylbenzene	26.3	23.2	88	70-130	
104-51-8	n-Butylbenzene	26.8	23.5	88	70-130	

Verified By:          Date: 6/10/08 **1204**

Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030803.D  
Acq On : 3 Jun 2008 9:49 am  
Operator : RTB  
Sample : 25ng TO-15 LCS  
Misc : S20-06020803/S20-05290805  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 11:08:54 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030803.D  
 Acq On : 3 Jun 2008 9:49 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-06020803/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 11:08:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	314715	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1359071	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	652554	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	494196	22.663	ng	0.00
Spiked Amount	25.000		Recovery	=	90.64%	✓
57) Toluene-d8 (SS2)	18.93	98	1418907	24.211	ng	0.00
Spiked Amount	25.000		Recovery	=	96.84%	✓
73) Bromofluorobenzene (SS3)	23.29	174	582440	24.439	ng	0.00
Spiked Amount	25.000		Recovery	=	97.76%	✓

Target Compounds

						Qvalue
2) Propene	4.79	42	530928	21.360	ng	91
3) Dichlorodifluoromethane	4.95	85	929048	20.278	ng	100
4) Chloromethane	5.27	50	576331	19.427	ng	97
5) Freon 114	5.52	135	490831	21.779	ng	99
6) Vinyl Chloride	5.71	62	619093	20.857	ng	96
7) 1,3-Butadiene	5.99	54	612083	27.722	ng	# 80
8) Bromomethane	6.48	94	377193	22.818	ng	99
9) Chloroethane	6.82	64	315163	22.351	ng	96
10) Ethanol	7.11	45	331257	20.019	ng	95
11) Acetonitrile	7.43	41	922812	19.285	ng	96
12) Acrolein	7.64	56	263556	22.296	ng	98
13) Acetone	7.86	58	372931	22.013	ng	# 70
14) Trichlorofluoromethane	8.14	101	859015	21.854	ng	100
15) Isopropanol	8.32	45	1099970m	20.358	ng	
16) Acrylonitrile	8.63	53	603960	23.413	ng	98
17) 1,1-Dichloroethene	9.16	96	424607	24.558	ng	# 76
18) tert-Butanol	9.26	59	1104400	24.031	ng	92
19) Methylene Chloride	9.36	84	435241	22.988	ng	# 78
20) Allyl Chloride	9.54	41	724277	28.669	ng	100
21) Trichlorotrifluoroethane	9.80	151	427120	23.895	ng	93
22) Carbon Disulfide	9.76	76	1506625	20.969	ng	97
23) trans-1,2-Dichloroethene	10.80	61	660953	23.600	ng	82
24) 1,1-Dichloroethane	11.10	63	774901	23.586	ng	96
25) Methyl tert-Butyl Ether	11.19	73	1278197	23.331	ng	86
26) Vinyl Acetate	11.34	86	91279	29.153	ng	# 81
27) 2-Butanone	11.67	72	292272	23.637	ng	# 89
28) cis-1,2-Dichloroethene	12.35	61	616581	23.035	ng	81
29) Diisopropyl Ether	12.69	87	343270	22.656	ng	# 80
30) Ethyl Acetate	12.69	61	172166	25.793	ng	77
31) n-Hexane	12.70	57	775819	23.034	ng	89

7/06/03/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030803.D  
 Acq On : 3 Jun 2008 9:49 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-06020803/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 11:08:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.79	83	745218	25.967	ng	100
34) Tetrahydrofuran	13.35	72	273936	23.173	ng #	91
35) Ethyl tert-Butyl Ether	13.48	87	488935	23.043	ng #	74
36) 1,2-Dichloroethane	13.89	62	598911	21.601	ng	97
38) 1,1,1-Trichloroethane	14.29	97	699691	22.606	ng	96
39) Isopropyl Acetate	14.83	61	281620	24.260	ng #	52
40) 1-Butanol	14.84	56	406686	21.770	ng #	67
41) Benzene	14.99	78	1629738	22.902	ng	100
42) Carbon Tetrachloride	15.21	117	639111	23.321	ng	100
43) Cyclohexane	15.41	84	639185	23.090	ng #	74
44) tert-Amyl Methyl Ether	15.87	73	1184105	23.196	ng	94
45) 1,2-Dichloropropane	16.20	63	435240	22.859	ng	99
46) Bromodichloromethane	16.46	83	596924	24.816	ng	99
47) Trichloroethene	16.54	130	483396	22.144	ng	99
48) 1,4-Dioxane	16.49	88	329966	24.584	ng	80
49) Isooctane	16.62	57	1866742	22.880	ng	84
50) Methyl Methacrylate	16.79	100	173889	24.453	ng	90
51) n-Heptane	16.98	71	443791	23.471	ng #	79
52) cis-1,3-Dichloropropene	17.73	75	654611	23.142	ng	99
53) 4-Methyl-2-pentanone	17.77	58	436386	23.097	ng	79
54) trans-1,3-Dichloropropene	18.43	75	655102	26.847	ng	100
55) 1,1,2-Trichloroethane	18.67	97	412800	23.475	ng	99
58) Toluene	19.06	91	1792602	22.502	ng	98
59) 2-Hexanone	19.37	43	1198237	21.829	ng	85
60) Dibromochloromethane	19.60	129	532732	24.759	ng	98
61) 1,2-Dibromoethane	19.93	107	492911	23.638	ng	100
62) Butyl Acetate	20.19	43	1320788	23.705	ng	87
63) n-Octane	20.35	57	397926	22.586	ng	89
64) Tetrachloroethene	20.54	166	532453	22.588	ng	100
65) Chlorobenzene	21.41	112	1218409	22.814	ng	100
66) Ethylbenzene	21.89	91	2079733	22.768	ng	95
67) m- & p-Xylene	22.12	91	3265613	53.446	ng	93
68) Bromoform	22.21	173	498501	31.134	ng	99
69) Styrene	22.57	104	1279100	23.419	ng	98
70) o-Xylene	22.71	91	1669183	25.307	ng	94
71) n-Nonane	22.98	43	1024946	21.885	ng	84
72) 1,1,2,2-Tetrachloroethane	22.69	83	773899	28.153	ng	97
74) Cumene	23.46	105	2055839	23.407	ng	99
75) alpha-Pinene	23.96	93	1047486	23.065	ng	97
76) n-Propylbenzene	24.10	91	2578281	23.070	ng	98
77) 3-Ethyltoluene	24.23	105	2136046	22.849	ng	100
78) 4-Ethyltoluene	24.28	105	2030460	23.297	ng	100
79) 1,3,5-Trimethylbenzene	24.37	105	1764528	22.410	ng	100

*Handwritten:* 6/3/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030803.D  
 Acq On : 3 Jun 2008 9:49 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-06020803/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 03 11:08:54 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	984501	23.094	ng	98
81) 2-Ethyltoluene	24.61	105	2085823	22.015	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	1829142	22.817	ng	99
83) n-Decane	24.98	57	1008165	22.857	ng	85
84) Benzyl Chloride	25.05	91	1475951	27.439	ng	99
85) 1,3-Dichlorobenzene	25.08	146	1131441	22.575	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1131025	23.278	ng	99
87) sec-Butylbenzene	25.21	105	2392622	23.351	ng	98
88) p-Isopropyltoluene	25.40	119	2239015	26.547	ng	96
89) 1,2,3-Trimethylbenzene	25.41	105	1930137	24.607	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1072063	22.553	ng	100
91) d-Limonene	25.58	68	711296	22.271	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.11	157	387978	26.300	ng	95
93) n-Undecane	26.50	57	1077609	23.344	ng	83
94) 1,2,4-Trichlorobenzene	27.62	180	847880	24.353	ng	96
95) Naphthalene	27.77	128	2574796	24.351	ng	99
96) n-Dodecane	27.74	57	1067265	23.248	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	554006	23.904	ng	99

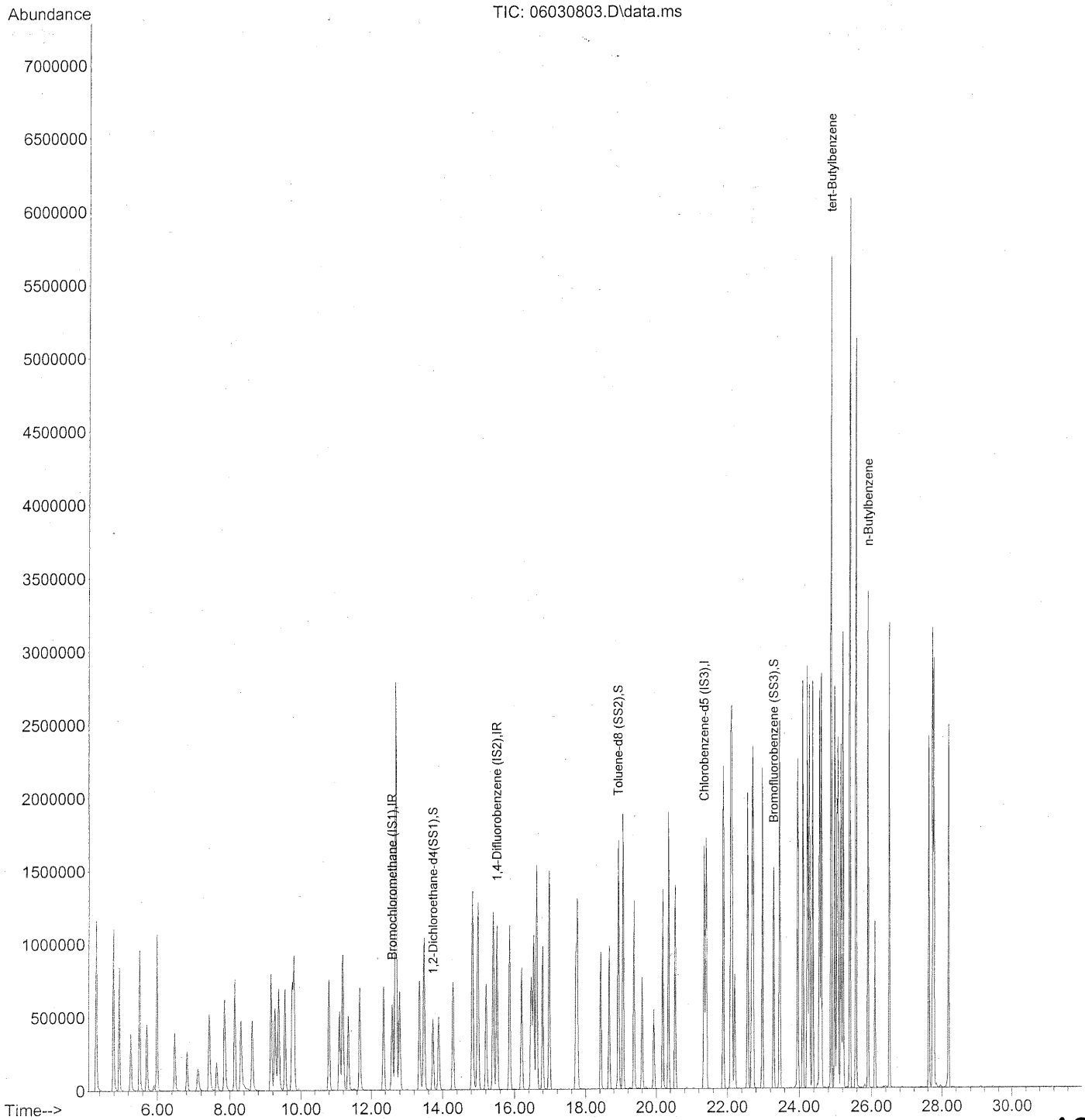
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*8/06/03/08*



Data Path : J:\MS13\DATA\2008\_06\03\  
Data File : 06030803.D  
Acq On : 3 Jun 2008 9:49 am  
Operator : RTB  
Sample : 25ng TO-15 LCS  
Misc : S20-06020803/S20-05290805  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 14:43:08 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030803.D  
 Acq On : 3 Jun 2008 9:49 am  
 Operator : RTB  
 Sample : 25ng TO-15 LCS  
 Misc : S20-06020803/S20-05290805  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 04 14:43:08 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.59	130	314715	25.000	ng	-0.01	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1359071	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	652554	25.000	ng	0.00	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.73	65	494196	22.663	ng	-0.02	
Spiked Amount	25.000		Recovery	=	90.64%	✓	
5) Toluene-d8 (SS2)	18.93	98	1418907	24.211	ng	-0.01	
Spiked Amount	25.000		Recovery	=	96.84%	✓	
6) Bromofluorobenzene (SS3)	23.29	174	582440	24.439	ng	0.00	
Spiked Amount	25.000		Recovery	=	97.76%	✓	
Target Compounds							Qvalue
7) tert-Butylbenzene	24.88	119	1777670	23.198	ng		99
8) n-Butylbenzene	25.91	91	1991559	23.501	ng		98

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

*Factor*

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 1 of 3

**Client:** ENSR

**Client Sample ID:** SG68B-05

**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

CAS Sample ID: P0801548-004DUP

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00526

Date Collected: 5/21/08

Date Received: 5/23/08

Date Analyzed: 5/30/08

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
<b>Dichlorodifluoromethane (CFC 12)</b>	2.12	0.428	2.03	0.410	2.075	4	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
<b>1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)</b>	0.0909	0.0130	0.0832	0.0119	0.08705	9	25	<b>J</b>
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
<b>Ethanol</b>	3.21	1.70	3.10	1.65	3.155	3	25	<b>J</b>
<b>Acetone</b>	16.9	7.11	16.2	6.82	16.55	4	25	<b>B</b>
<b>Trichlorofluoromethane</b>	39.6	7.05	38.3	6.82	38.95	3	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	0.0770	0.0194	ND	ND	-	-	25	<b>J</b>
<b>2-Methyl-2-Propanol (tert-Butyl Alcohol)</b>	0.297	0.0981	0.237	0.0783	0.267	22	25	<b>J</b>
<b>Methylene Chloride</b>	0.116	0.0333	0.129	0.0373	0.1225	11	25	<b>J</b>
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
<b>Trichlorotrifluoroethane</b>	0.621	0.0810	0.621	0.0810	0.621	0	25	
<b>Carbon Disulfide</b>	4.87	1.56	4.76	1.53	4.815	2	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	ND	ND	ND	ND	-	-	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
<b>Vinyl Acetate</b>	5.26	1.49	5.08	1.44	5.17	3	25	<b>J</b>
<b>2-Butanone (MEK)</b>	5.71	1.94	5.30	1.80	5.505	7	25	
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
<b>Chloroform</b>	24.1	4.94	23.7	4.85	23.9	2	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

B = Analyte was found in the method blank.

Verified By: CA

Date: 6/10/08

**1211**

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 2 of 3

**Client:** ENSR

**Client Sample ID:** SG68B-05

**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

CAS Sample ID: P0801548-004DUP

Test Code: EPA TO-15

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

Analyst: Wida Ang

Sampling Media: 6.0 L Summa Canister

Test Notes:

Container ID: SC00526

Date Collected: 5/21/08

Date Received: 5/23/08

Date Analyzed: 5/30/08

Volume(s) Analyzed: 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate Sample Result		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
<b>1,1,1-Trichloroethane</b>	0.328	0.0601	0.325	0.0596	0.3265	<b>0.9</b>	25	
<b>Benzene</b>	5.06	1.59	5.08	1.59	5.07	<b>0.4</b>	25	
<b>Carbon Tetrachloride</b>	0.311	0.0495	0.310	0.0492	0.3105	<b>0.3</b>	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
<b>Trichloroethene</b>	10.9	2.02	11.0	2.05	10.95	<b>0.9</b>	25	
<b>1,4-Dioxane</b>	0.282	0.0782	0.266	0.0740	0.274	<b>6</b>	25	<b>J</b>
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
<b>n-Heptane</b>	0.525	0.128	0.514	0.126	0.5195	<b>2</b>	25	<b>J</b>
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
<b>4-Methyl-2-pentanone</b>	8.41	2.05	8.35	2.04	8.38	<b>0.7</b>	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
<b>Toluene</b>	8.60	2.28	8.41	2.23	8.505	<b>2</b>	25	
<b>2-Hexanone</b>	1.33	0.325	1.32	0.322	1.325	<b>0.8</b>	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
<b>n-Octane</b>	6.49	1.39	6.32	1.35	6.405	<b>3</b>	25	
<b>Tetrachloroethene</b>	152	22.4	148	21.8	150	<b>3</b>	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA

Date: 6/10/08

**1212**

**COLUMBIA ANALYTICAL SERVICES, INC.**

LABORATORY DUPLICATE SUMMARY RESULTS

Page 3 of 3

**Client:** ENSR  
**Client Sample ID:** SG68B-05  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548  
 CAS Sample ID: P0801548-004DUP

**Test Code:** EPA TO-15  
**Instrument ID:** Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
**Analyst:** Wida Ang  
**Sampling Media:** 6.0 L Summa Canister  
**Test Notes:**  
**Container ID:** SC00526

**Date Collected:** 5/21/08  
**Date Received:** 5/23/08  
**Date Analyzed:** 5/30/08  
**Volume(s) Analyzed:** 1.00 Liter(s)

Initial Pressure (psig): -2.9

Final Pressure (psig): 3.5

Canister Dilution Factor: 1.54

Compound	Sample Result		Duplicate		Average µg/m <sup>3</sup>	% RPD	RPD Limit	Data Qualifier
	µg/m <sup>3</sup>	ppbV	µg/m <sup>3</sup>	ppbV				
Ethylbenzene	3.56	0.820	3.54	0.816	3.55	0.6	25	
m,p-Xylenes	17.3	3.99	17.2	3.96	17.25	0.6	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	0.243	0.0572	0.245	0.0575	0.244	0.8	25	J
o-Xylene	5.35	1.23	5.23	1.21	5.29	2	25	
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	0.239	0.0486	0.233	0.0473	0.236	3	25	J
n-Propylbenzene	0.682	0.139	0.678	0.138	0.68	0.6	25	J
4-Ethyltoluene	1.01	0.206	0.979	0.199	0.9945	3	25	
1,3,5-Trimethylbenzene	1.23	0.250	1.20	0.243	1.215	2	25	
alpha-Methylstyrene	0.142	0.0293	0.160	0.0331	0.151	12	25	J
1,2,4-Trimethylbenzene	2.61	0.531	2.54	0.517	2.575	3	25	
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,4-Dichlorobenzene	2.71	0.450	2.63	0.437	2.67	3	25	
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	6.75	1.23	6.63	1.21	6.69	2	25	
1,2-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	-	-	25	
1,2,4-Trichlorobenzene	ND	ND	ND	ND	-	-	25	
Naphthalene	0.967	0.185	0.958	0.183	0.9625	0.9	25	
Hexachlorobutadiene	0.374	0.0351	0.410	0.0384	0.392	9	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	0.379	0.0690	0.380	0.0693	0.3795	0.3	25	

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

J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

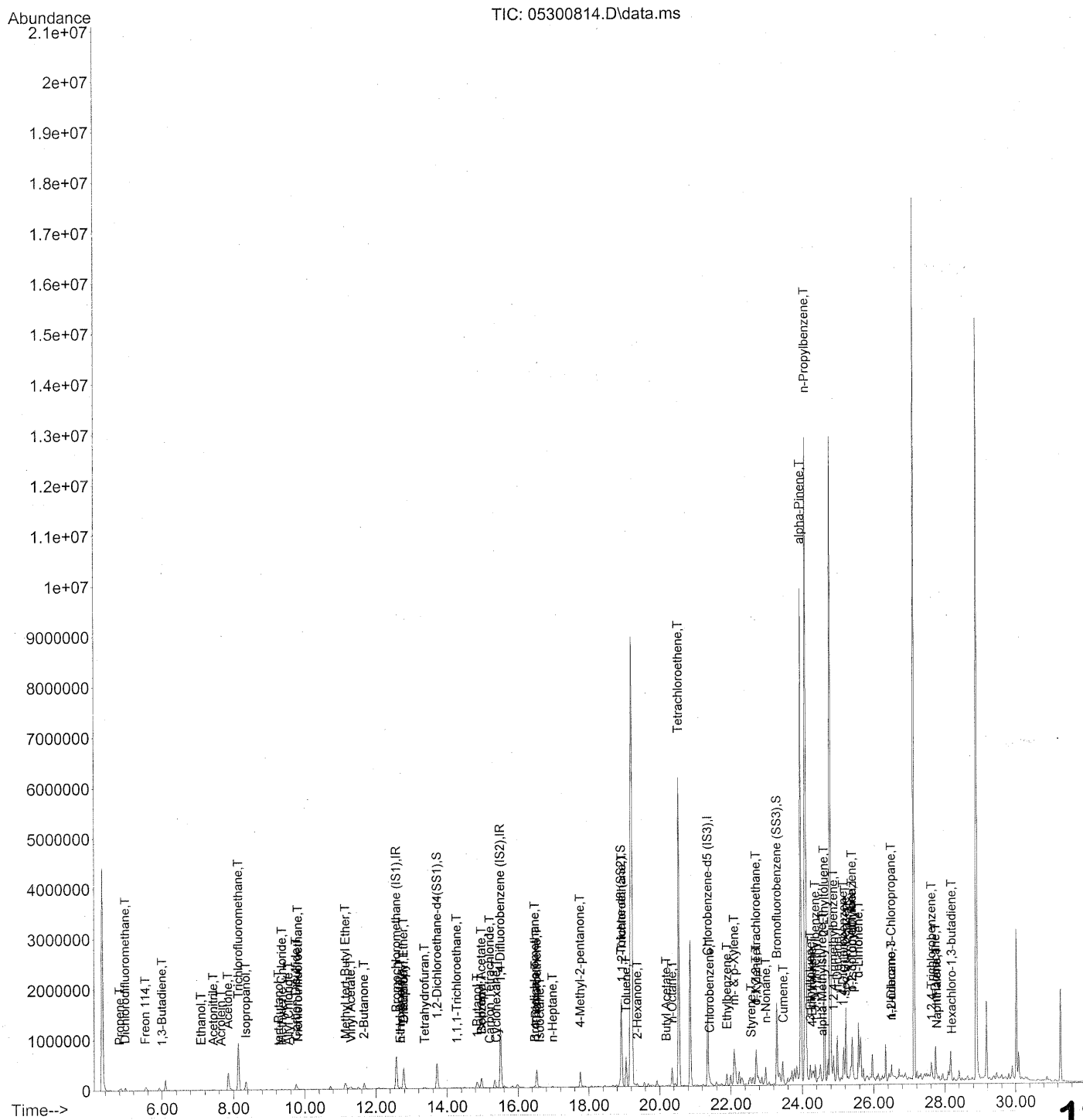
Verified By:                     

Date: 6/10/08

**1213**

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5) ✓  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	340611	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1434647	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	671706	25.000	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev (Min)
33) 1,2-Dichloroethane-d4(...)	13.72	65	529392	22.431	ng	0.00
Spiked Amount			Recovery =	25.000		89.72% ✓
57) Toluene-d8 (SS2)	18.92	98	1485703	24.628	ng	0.00
Spiked Amount			Recovery =	25.000		98.52% ✓
73) Bromofluorobenzene (SS3)	23.29	174	626067	25.521	ng	0.00
Spiked Amount			Recovery =	25.000		102.08% ✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	18896	0.702	ng	# 71
3) Dichlorodifluoromethane	4.97	85	65311	1.317	ng	100
4) Chloromethane	5.32	50	688	N.D. ✓		
5) Freon 114	5.53	135	1312	0.054	ng	85
6) Vinyl Chloride	0.00	62	0	N.D. ✓		
7) 1,3-Butadiene	6.00	54	2112	0.088	ng	# 35
8) Bromomethane	6.49	94	384	N.D. ✓		
9) Chloroethane	6.83	64	405	N.D. ✓		
10) Ethanol	7.10	45	36078m	2.015	ng	
11) Acetonitrile	7.43	41	25517	0.493	ng	85
12) Acrolein	7.66	56	5461	0.427	ng	98
13) Acetone	7.85	58	192800	10.515	ng	# 71
14) Trichlorofluoromethane	8.14	101	1058616	24.885	ng	100
15) Isopropanol	8.34	45	86768	1.484	ng	# 61
16) Acrylonitrile	8.64	53	904	N.D. ✓		
17) 1,1-Dichloroethene	9.16	96	349	N.D. ✓		
18) tert-Butanol	9.27	59	7680m	0.154	ng	
19) Methylene Chloride	9.36	84	1722	0.084	ng	# 75
20) Allyl Chloride	9.54	41	1306	<del>0.048</del>	ng	# 44
21) Trichlorotrifluoroethane	9.81	151	7793	0.403	ng	89
22) Carbon Disulfide	9.76	76	240252	3.090	ng	99
23) trans-1,2-Dichloroethene	10.71	61	820	N.D. ✓		
24) 1,1-Dichloroethane	11.09	63	124	N.D. ✓		
25) Methyl tert-Butyl Ether	11.14	73	2565	<del>0.043</del>	ng	# 59
26) Vinyl Acetate	11.30	86	11181	3.300	ng	# 1
27) 2-Butanone	11.67	72	46062	3.442	ng	96
28) cis-1,2-Dichloroethene	0.00	61	0	N.D. ✓		
29) Diisopropyl Ether	12.78	87	49423	<del>3.014</del>	ng	# 1
30) Ethyl Acetate	12.69	61	3200	0.443	ng	# 56
31) n-Hexane	12.69	57	6564	0.180	ng	80

1215

Fac/05/08 MR

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	477933	15.388 ng		100
34) Tetrahydrofuran	13.37	72	4440	0.347 ng	#	38
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	13.74	62	61	N.D. ✓		
38) 1,1,1-Trichloroethane	14.27	97	6890	0.211 ng		95
39) Isopropyl Acetate	14.97	61	1800	0.147 ng	#	1
40) 1-Butanol	14.85	56	129557	6.570 ng		85
41) Benzene	14.98	78	247591	3.296 ng		99
42) Carbon Tetrachloride	15.21	117	5820	0.201 ng		93
43) Cyclohexane	15.39	84	2886	0.099 ng	#	1
44) tert-Amyl Methyl Ether	15.86	73	651	N.D. ✓		
45) 1,2-Dichloropropane	16.19	63	59	N.D. ✓		
46) Bromodichloromethane	16.48	83	1045	<del>0.041 ng</del>	#	18
47) Trichloroethene	16.53	130	164417	7.135 ng		100
48) 1,4-Dioxane	16.50	88	2445	0.173 ng		96
49) Isooctane	16.62	57	19774	0.230 ng	#	46
50) Methyl Methacrylate	16.74	100	55	N.D. ✓		
51) n-Heptane	16.98	71	6658	0.334 ng	#	81
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	17.76	58	108085	5.419 ng		83
54) trans-1,3-Dichloropropene	18.45	75	52	N.D. ✓		
55) 1,1,2-Trichloroethane	18.94	97	129980	<del>7.002 ng</del>		9
58) Toluene	19.06	91	447869	5.462 ng		97
59) 2-Hexanone	19.37	43	48300	0.855 ng		78
60) Dibromochloromethane	19.61	129	116	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	20.19	43	8418	0.147 ng		79
63) n-Octane	20.35	57	74436	4.104 ng		89
64) Tetrachloroethene	20.55	166	2332410	96.125 ng		99
65) Chlorobenzene	21.40	112	5608	<del>0.102 ng</del>		94
66) Ethylbenzene	21.89	91	216313	2.301 ng		94
67) m- & p-Xylene	22.09	91	702201	11.165 ng		92
68) Bromoform	22.21	173	51	N.D. ✓		
69) Styrene	22.57	104	8965	0.159 ng		84
70) o-Xylene	22.71	91	230697	3.398 ng		95
71) n-Nonane	22.98	43	171477	3.557 ng	#	83
72) 1,1,2,2-Tetrachloroethane	22.71	83	4484	<del>0.158 ng</del>		1
74) Cumene	23.47	105	13640	0.151 ng		97
75) alpha-Pinene	23.97	93	4653201	99.540 ng		99
76) n-Propylbenzene	24.10	91	50598	0.440 ng	#	1
77) 3-Ethyltoluene	24.23	105	123660	1.285 ng		100
78) 4-Ethyltoluene	24.28	105	57071	0.636 ng		98
79) 1,3,5-Trimethylbenzene	24.37	105	62865	0.776 ng		100

1216

*Faclos*



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	4583	0.104	ng	# 80
81) 2-Ethyltoluene	24.61	105	78396	0.804	ng	82
82) 1,2,4-Trimethylbenzene	24.88	105	136112	1.649	ng	88
83) n-Decane	24.98	57	344074	7.579	ng	81
84) Benzyl Chloride	25.05	91	1302	N.D.	✓	
85) 1,3-Dichlorobenzene	25.08	146	962	N.D.	✓	
86) 1,4-Dichlorobenzene	25.16	146	85386	1.707	ng	100
87) sec-Butylbenzene	25.21	105	5005	<del>0.047</del>	ng	# 81
88) p-Isopropyltoluene	25.40	119	373642	4.304	ng	88
89) 1,2,3-Trimethylbenzene	25.40	105	81269	1.007	ng	75
90) 1,2-Dichlorobenzene	25.58	146	430	N.D.	✓	
91) d-Limonene	25.58	68	293156	8.917	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.50	157	717	<del>0.047</del>	ng	# 1
93) n-Undecane	26.50	57	188213	3.961	ng	97
94) 1,2,4-Trichlorobenzene	27.63	180	2432	<del>0.068</del>	ng	90
95) Naphthalene	27.77	128	67693	0.622	ng	89
96) n-Dodecane	27.73	57	232146	4.913	ng	84
97) Hexachloro-1,3-butadiene	28.19	225	6354	0.266	ng	92

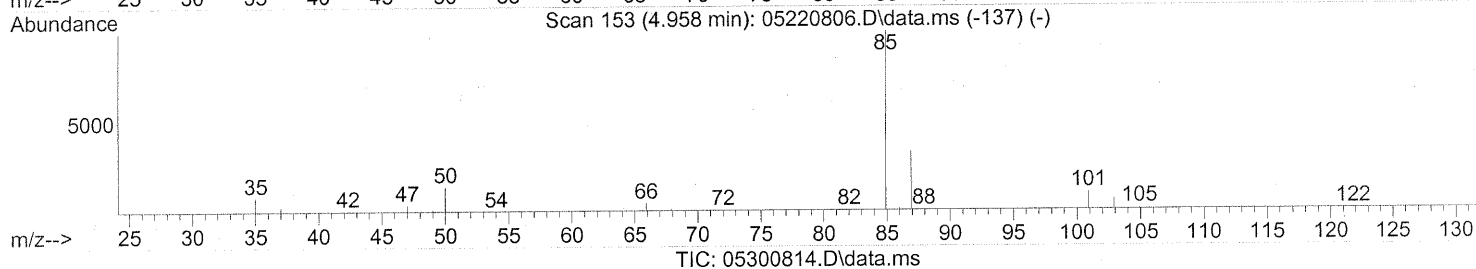
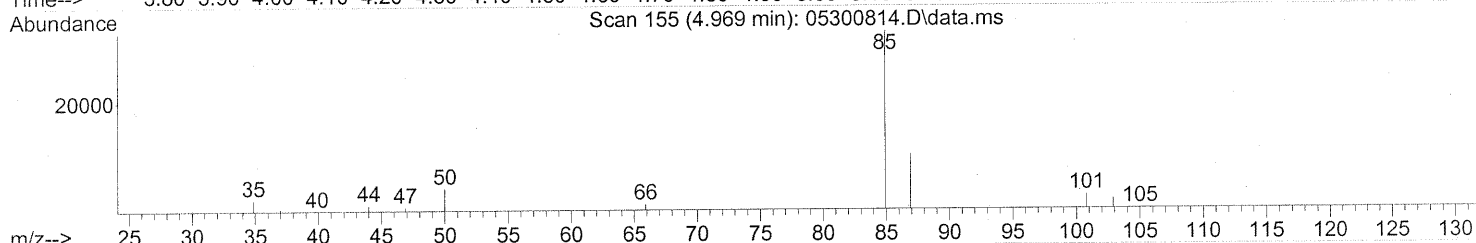
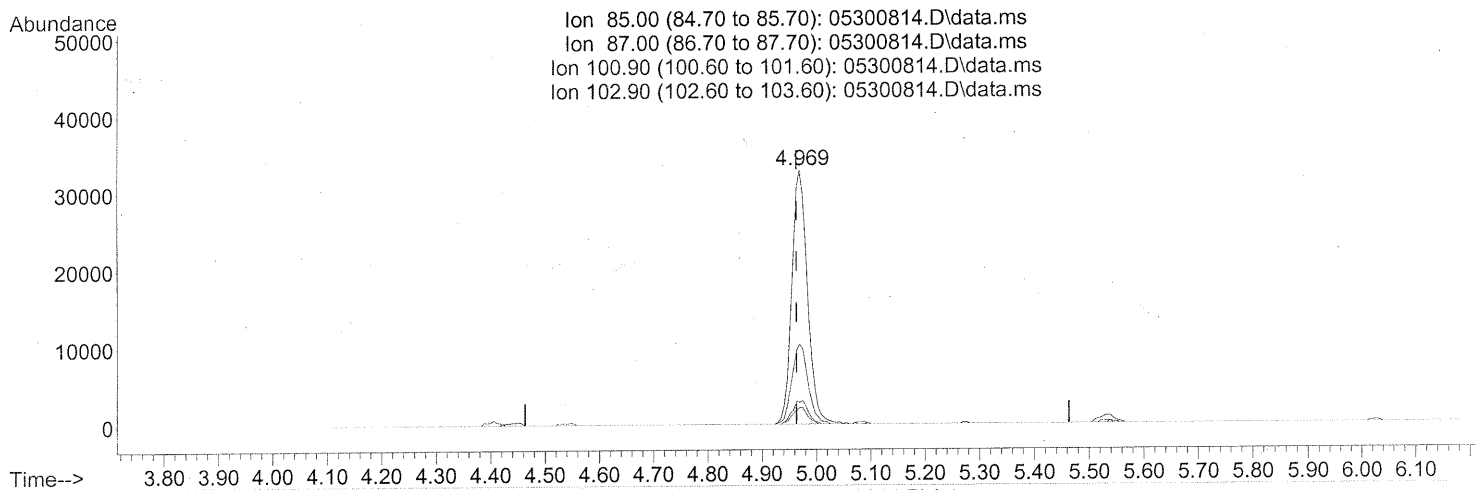
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*P06/05/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.969min (+0.006) 1.32ng

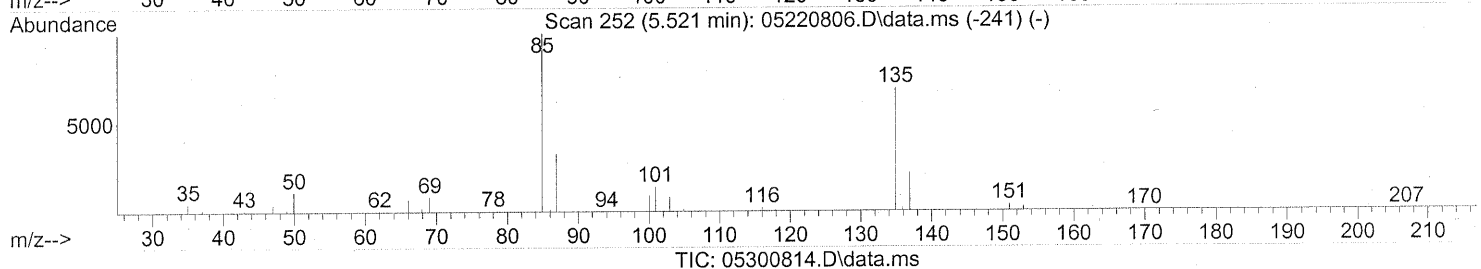
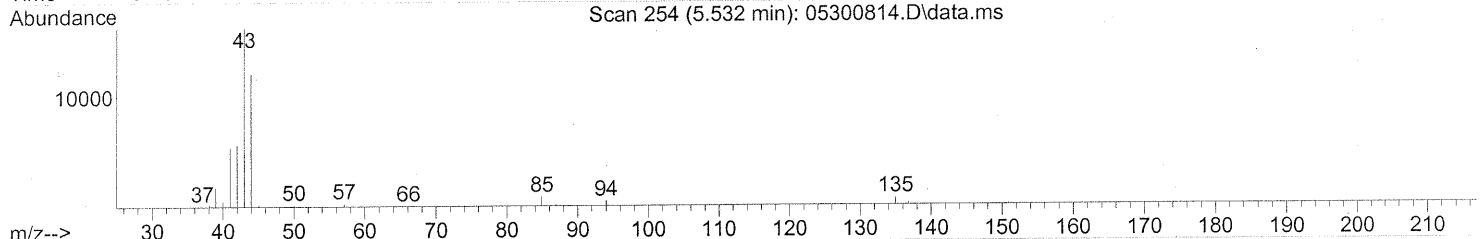
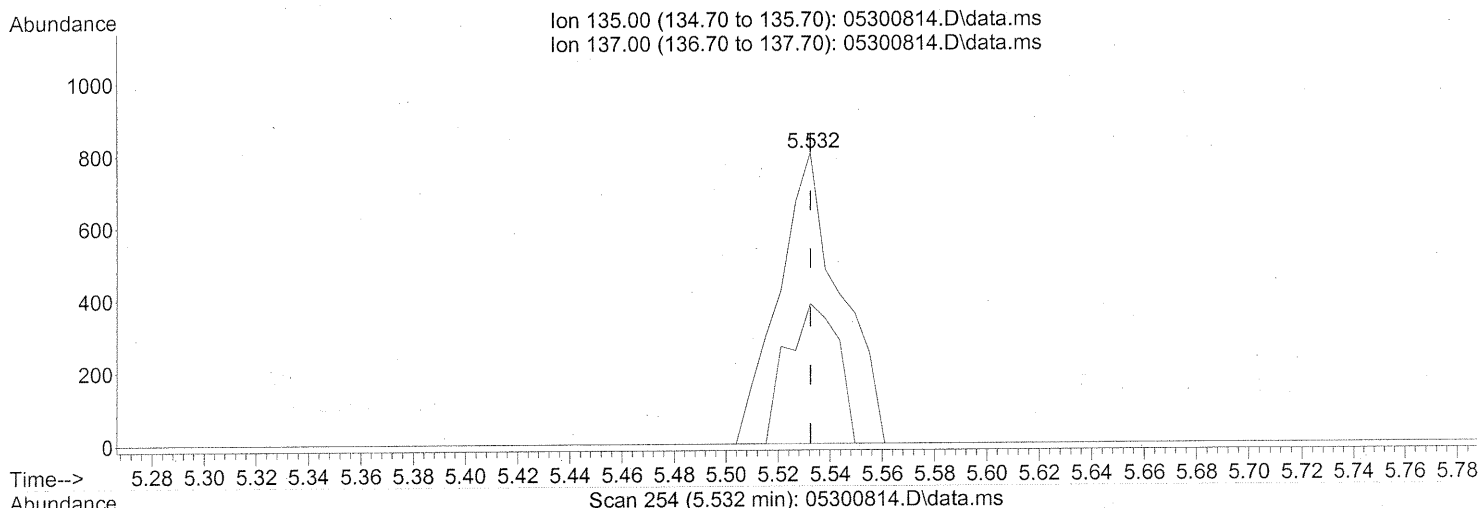
response 65311

Ion	Exp%	Act%
85.00	100	100
87.00	32.50	32.58
100.90	9.30	9.38
102.90	6.00	6.09

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.532min (+0.000) 0.05ng  
 response 1312

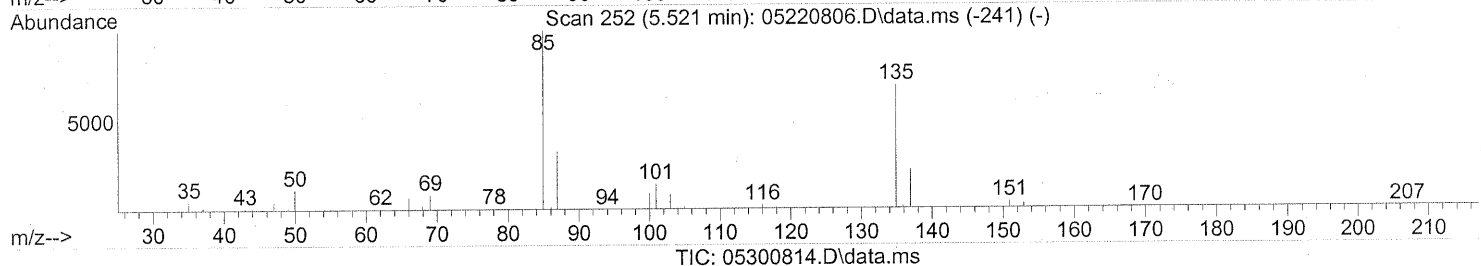
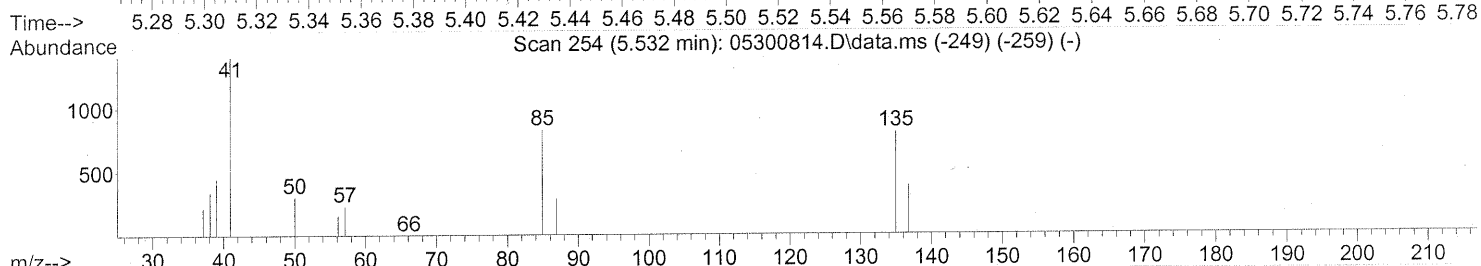
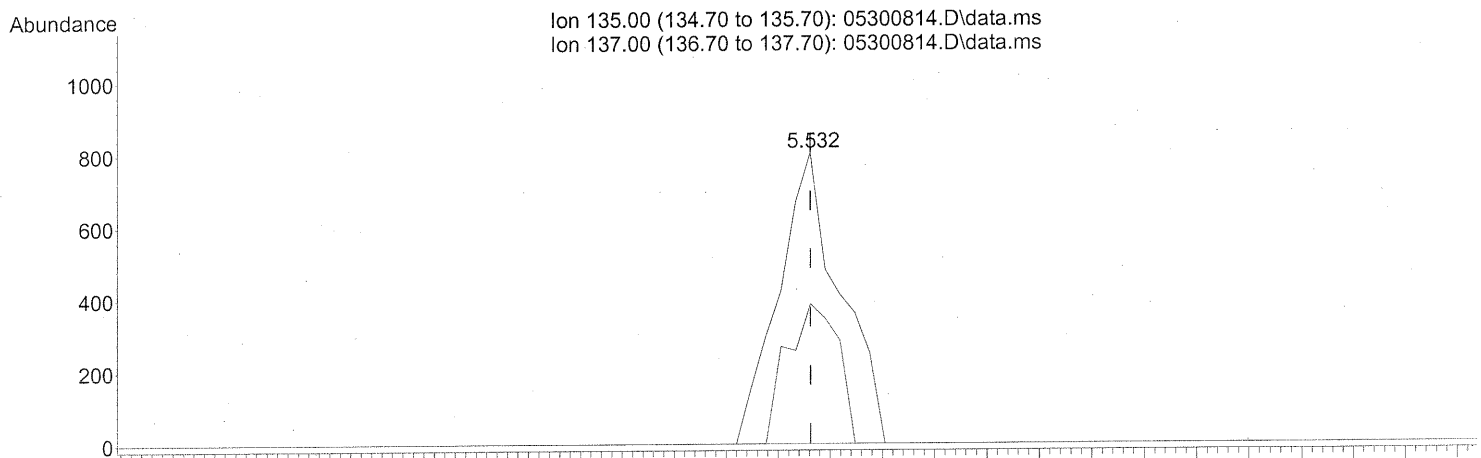
**BEFORE SUBTRACTION**

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	40.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(5) Freon 114 (T)  
 5.532min (+0.000) 0.05ng  
 response 1312

Ion	Exp%	Act%
135.00	100	100
137.00	31.50	40.02
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

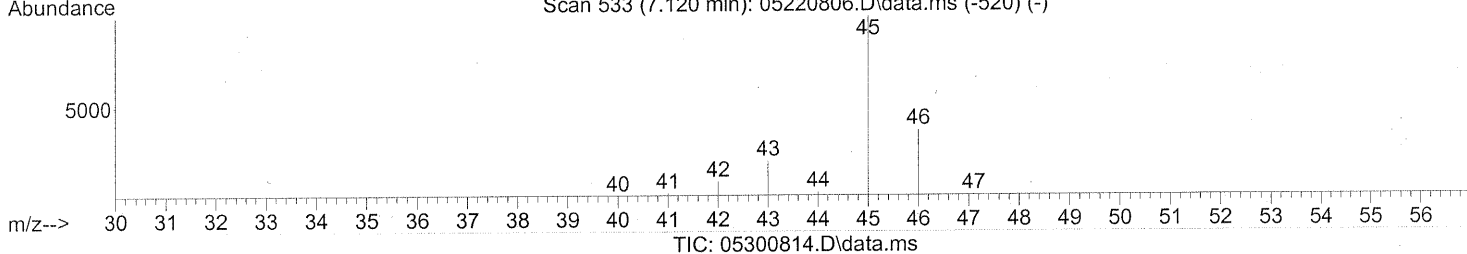
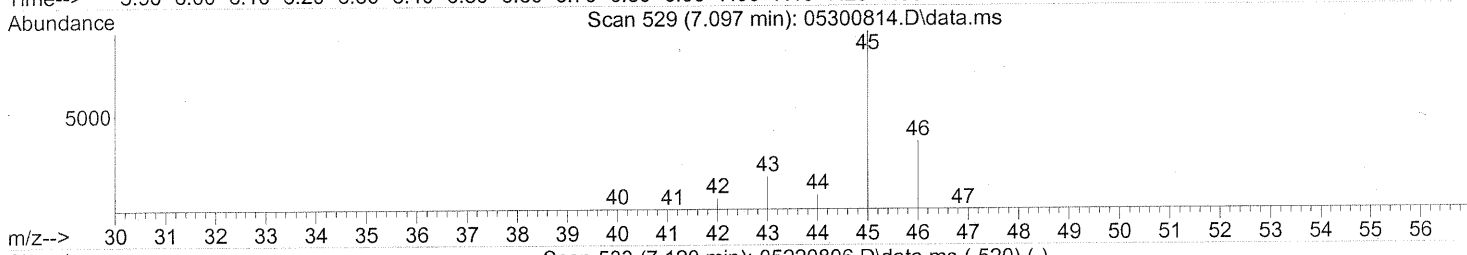
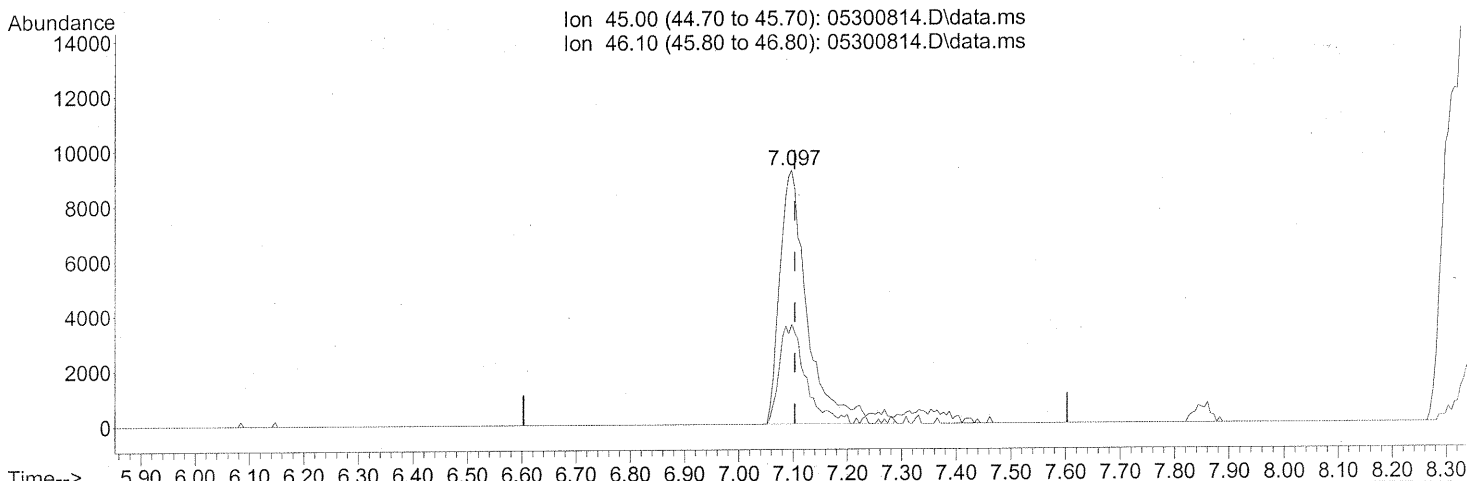
F04/05/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 20:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.006) 1.86ng

response 33230

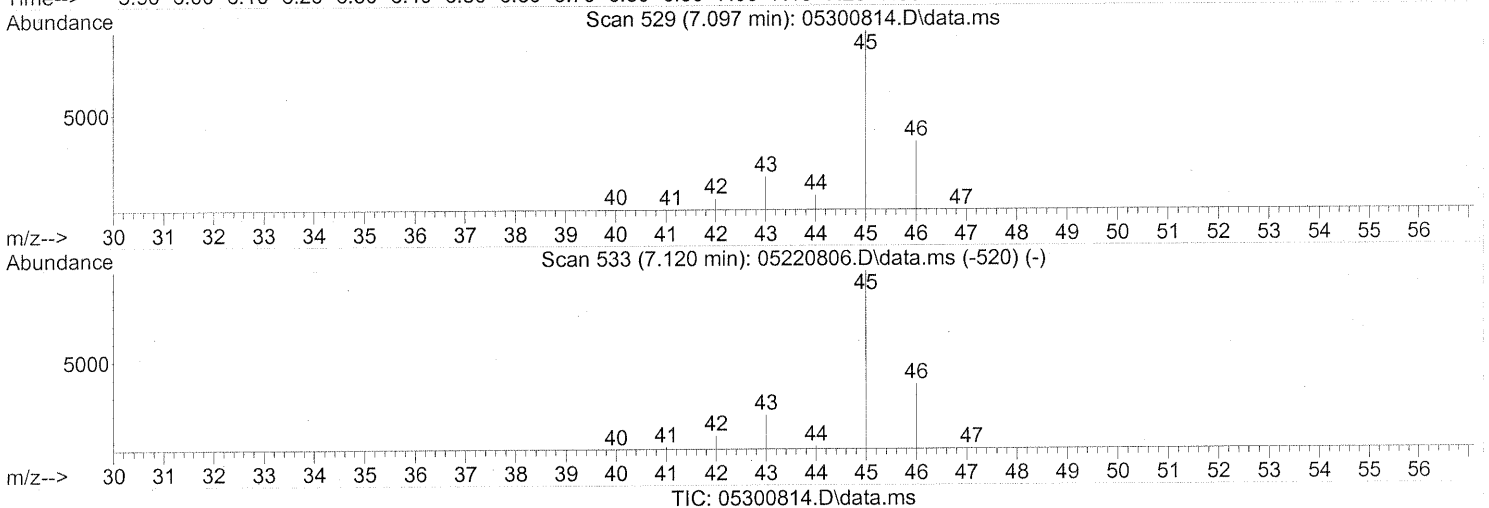
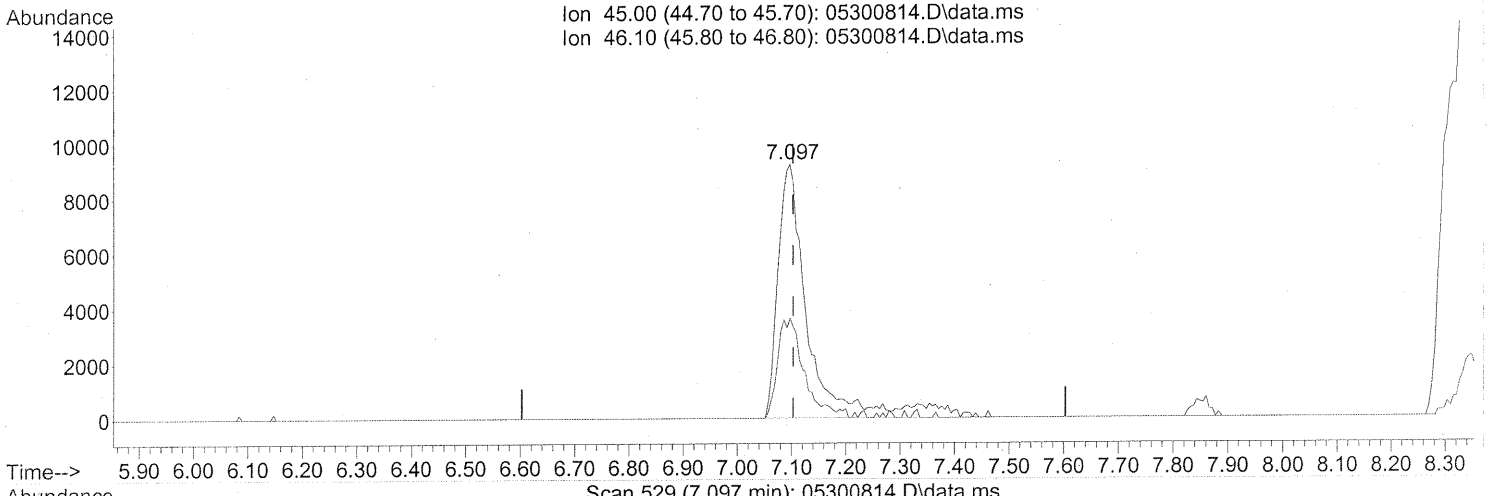
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	35.87
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qeait)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 20:53:01 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.097min (-0.006) 2.01ng m  
response 36078

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	33.04
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING

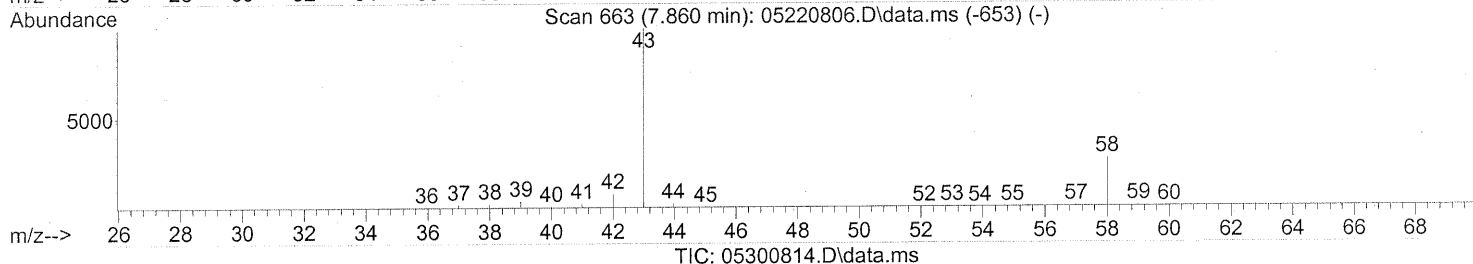
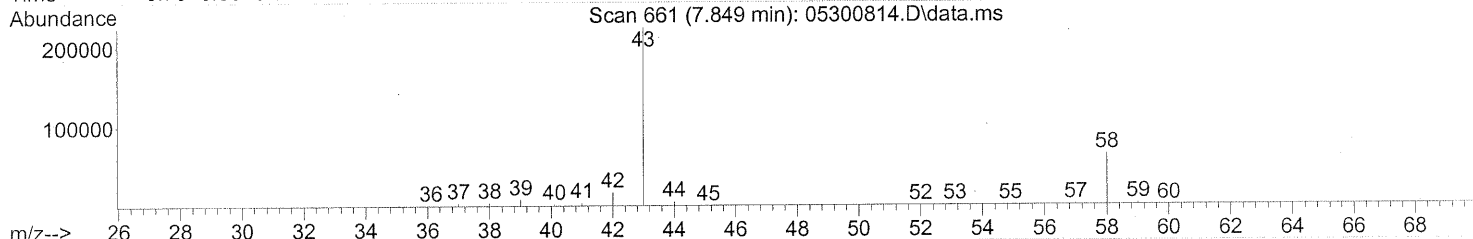
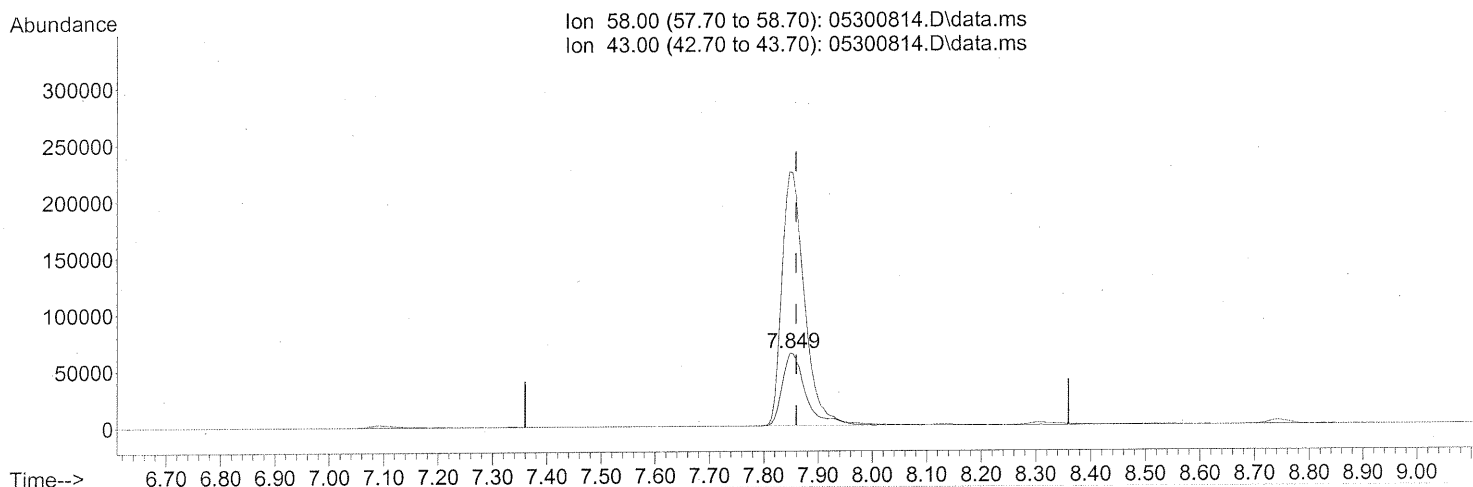
6/6/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(13) Acetone (T)

7.849min (-0.011) 10.52ng

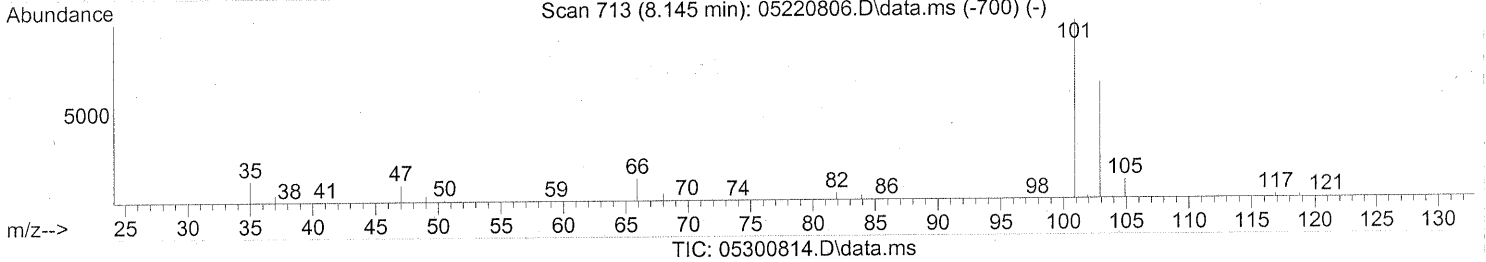
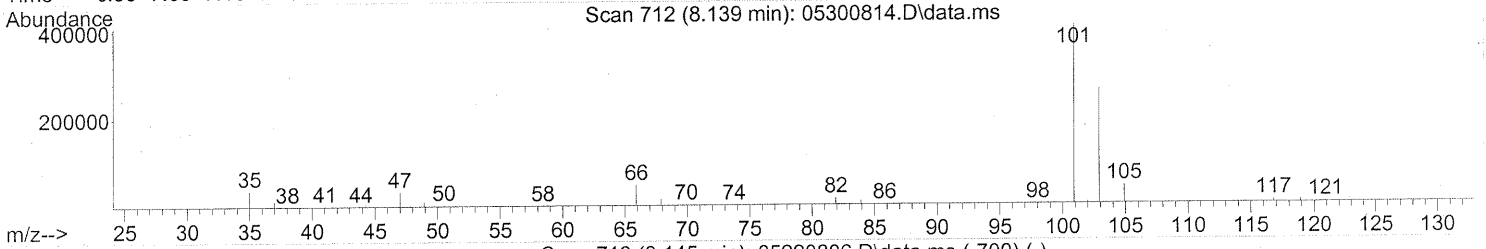
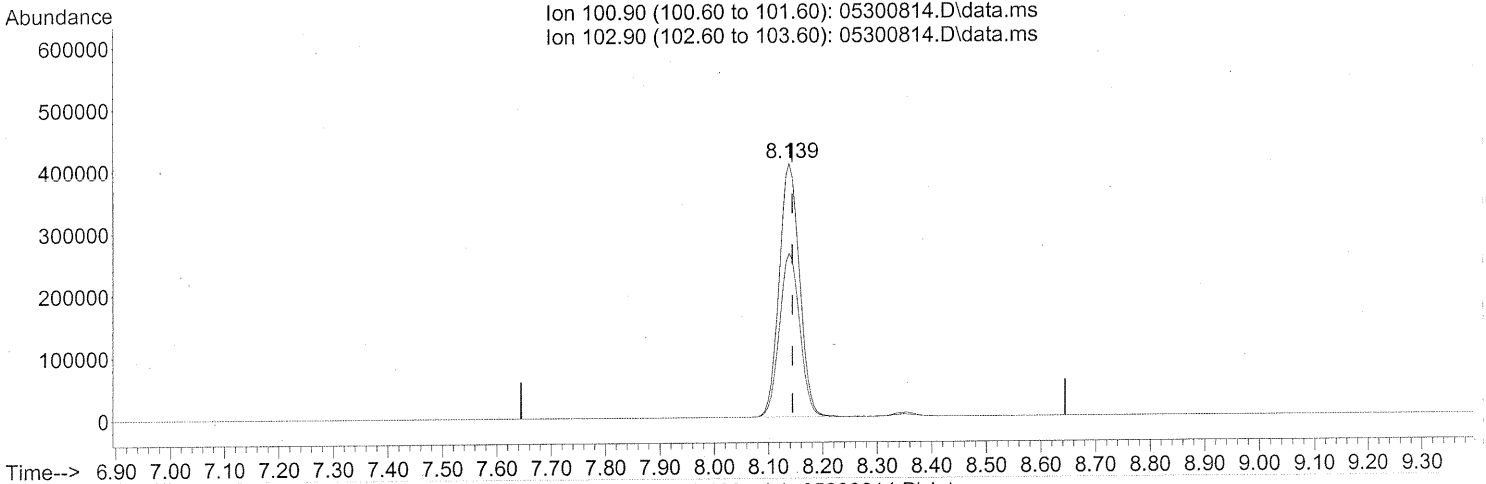
response 192800

Ion	Exp%	Act%
58.00	100	100
43.00	283.10	337.66#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

8.139min (-0.006) 24.88ng

response 1058616

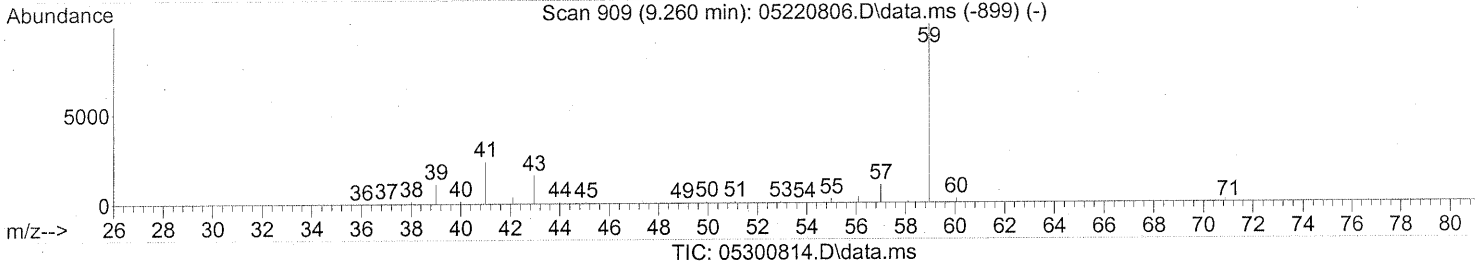
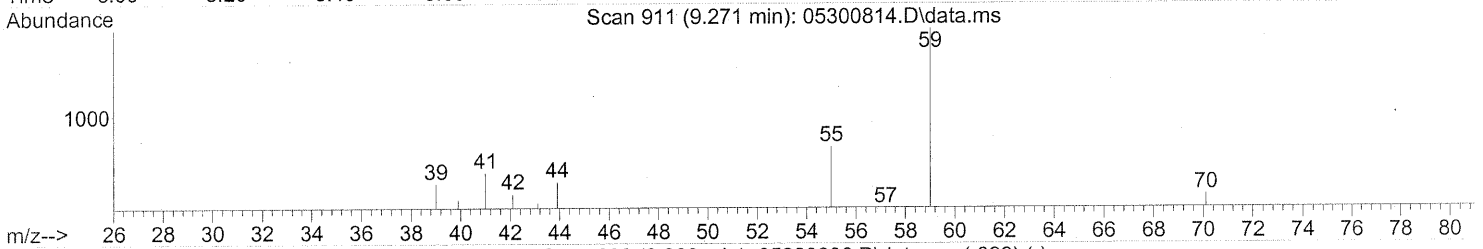
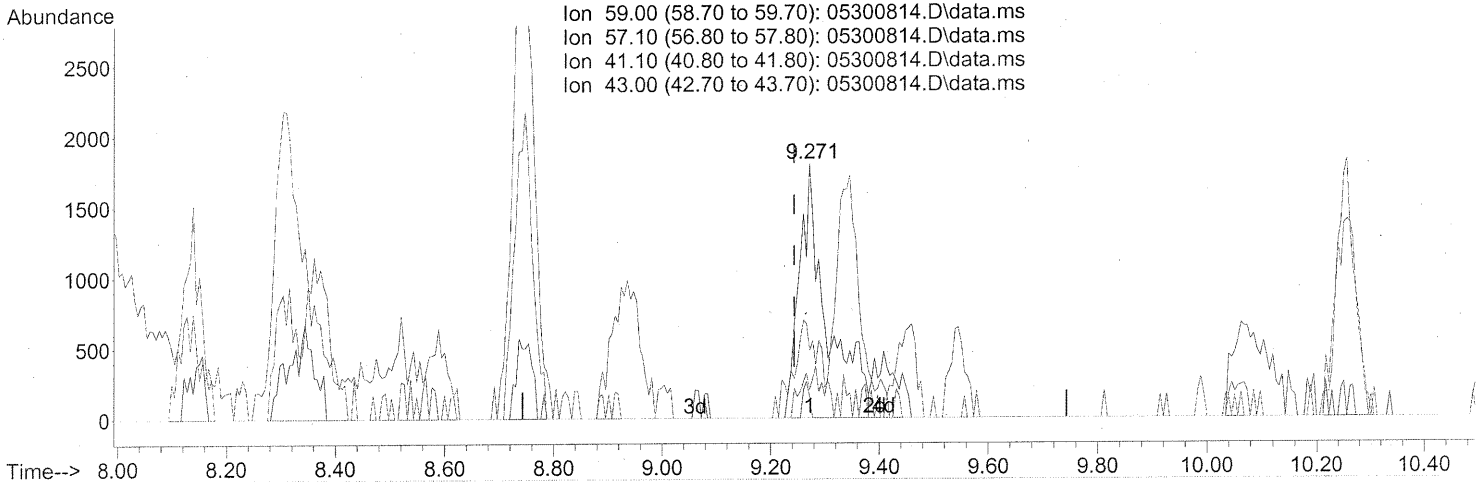
Ion	Exp%	Act%
100.90	100	100
102.90	64.80	64.62
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 20:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.13ng  
 response 6358

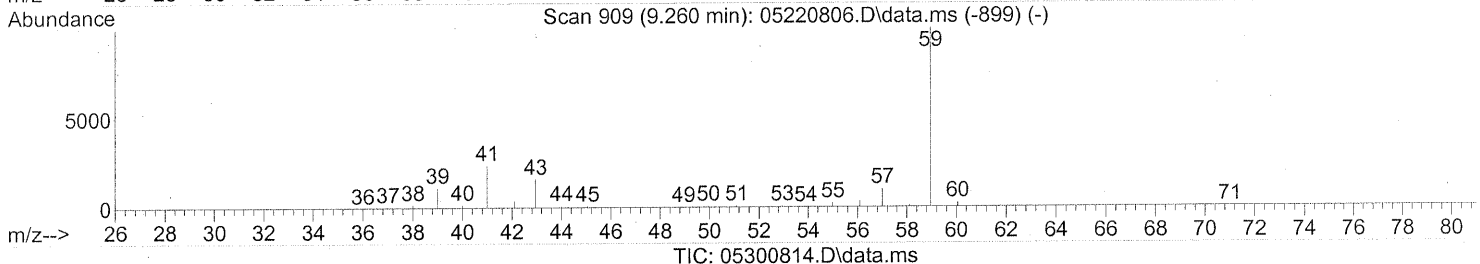
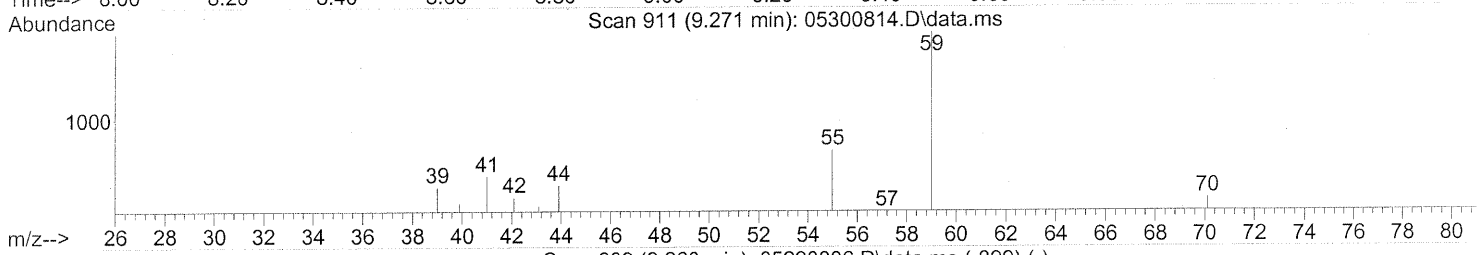
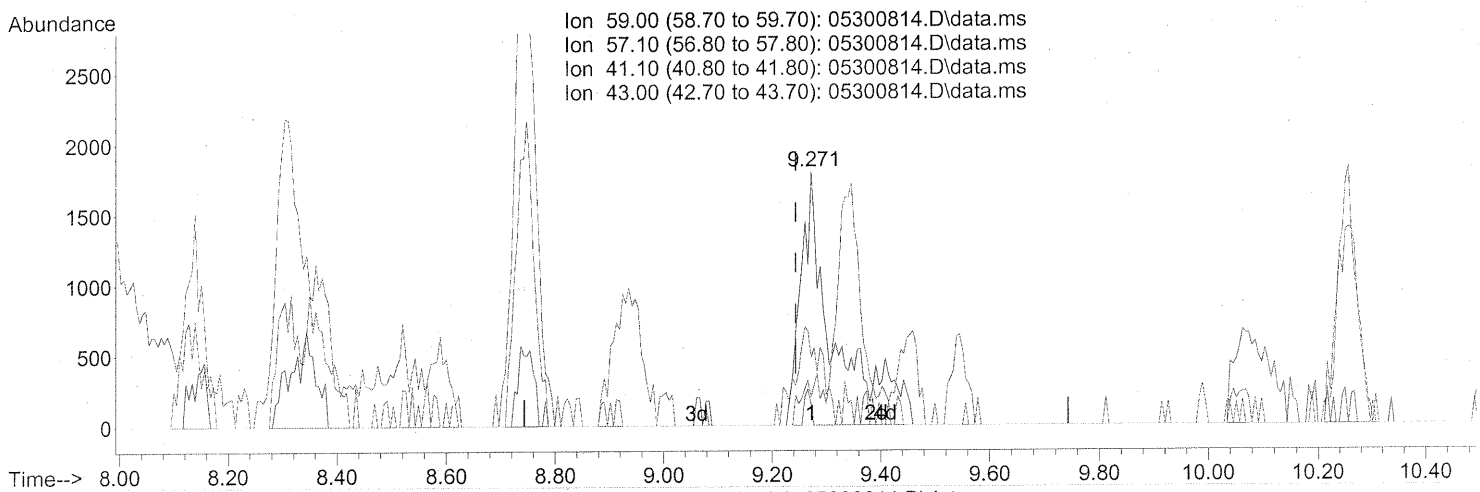
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	3.29
41.10	20.10	36.66
43.00	12.30	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 20:53:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.271min (+0.028) 0.15ng m  
 response 7680

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.72
41.10	20.10	30.35
43.00	12.30	0.00

ADDED TAILING

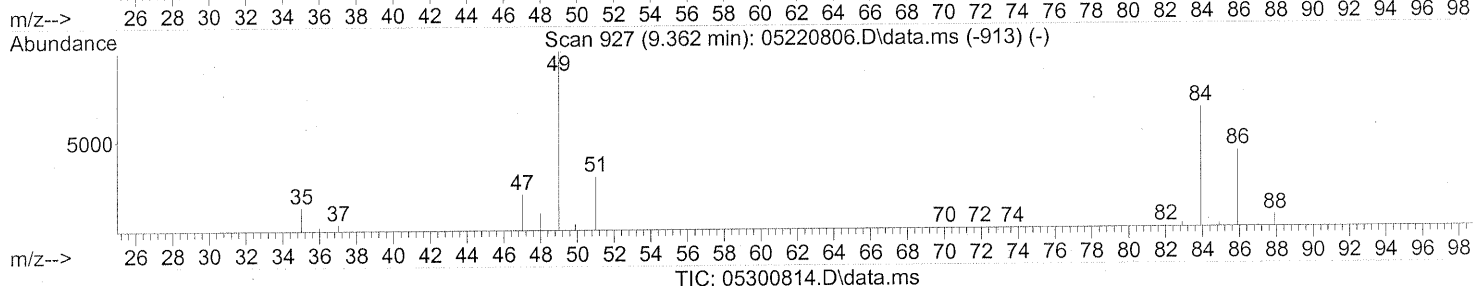
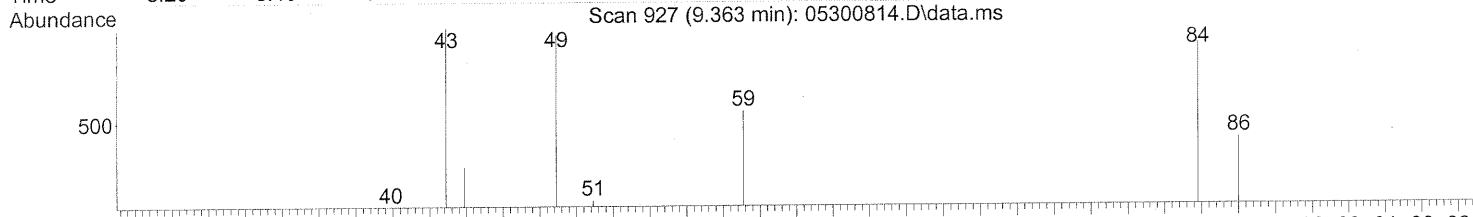
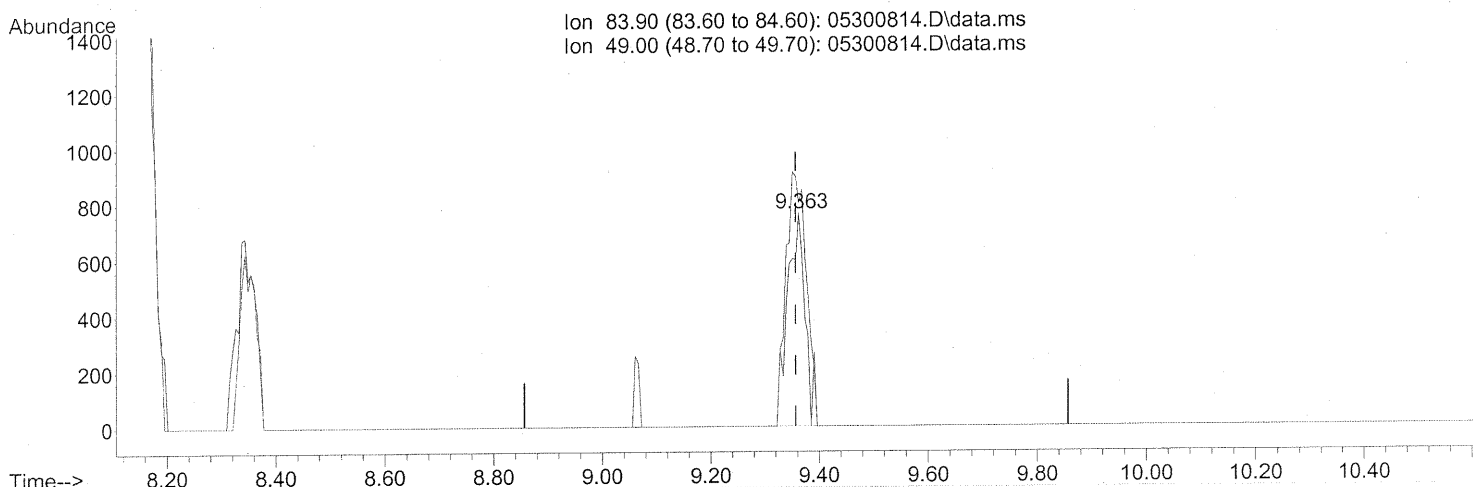
*For 6/9/08*

*E. 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(19) Methylene Chloride (T)

9.363min (+0.006) 0.08ng

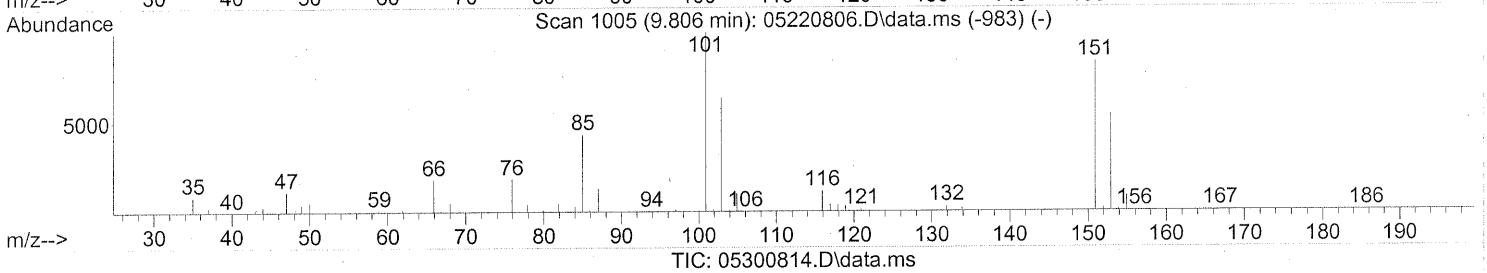
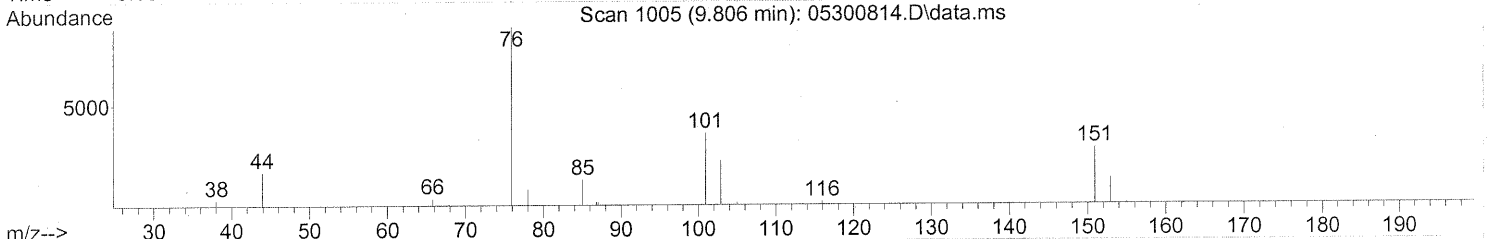
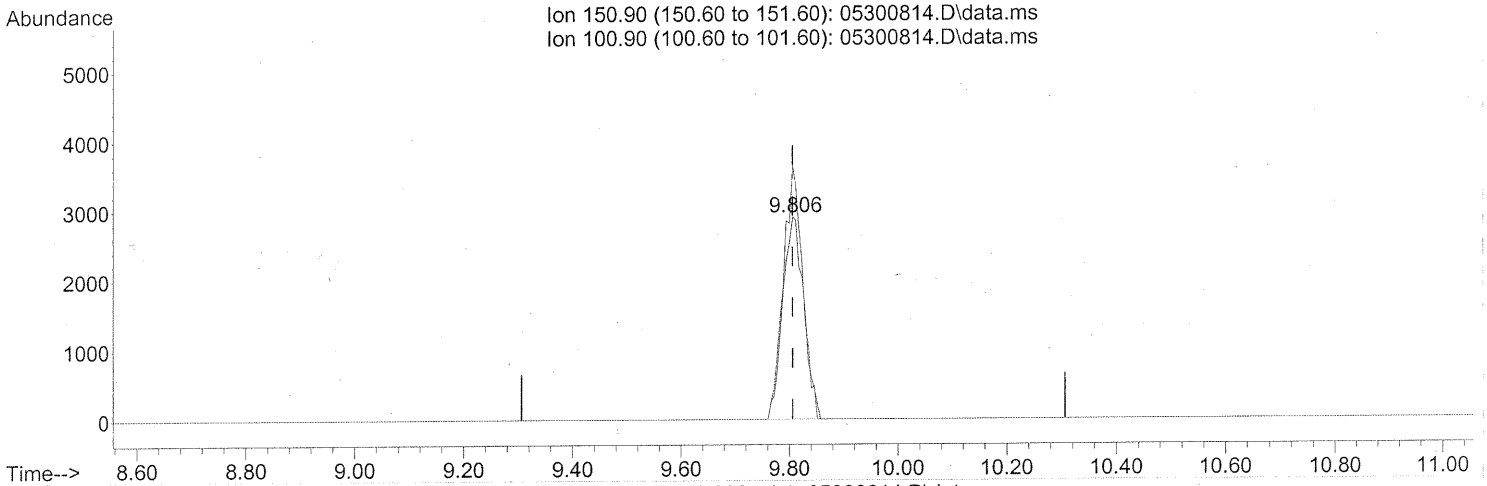
response 1722

Ion	Exp%	Act%
83.90	100	100
49.00	172.90	138.04#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (+0.000) 0.40ng

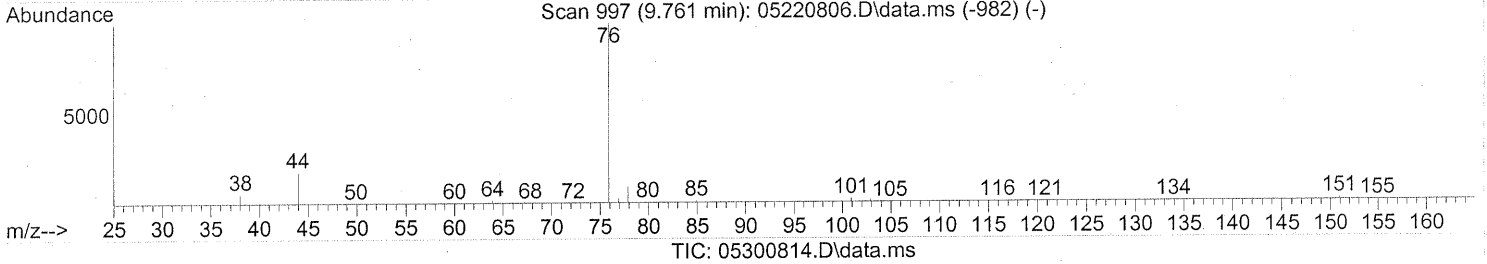
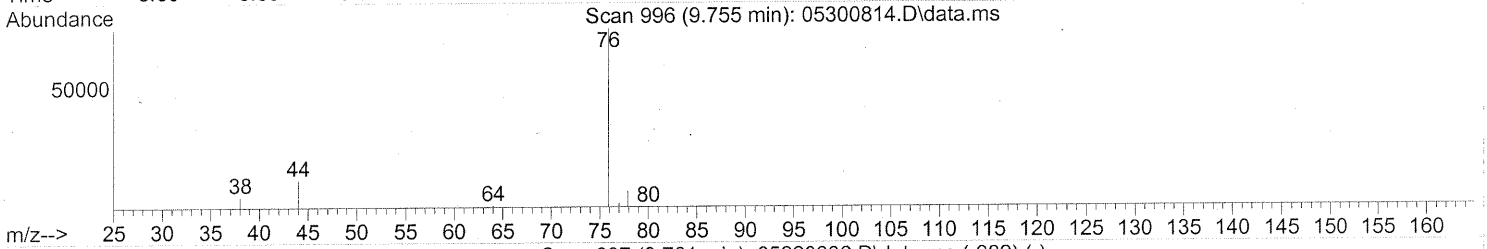
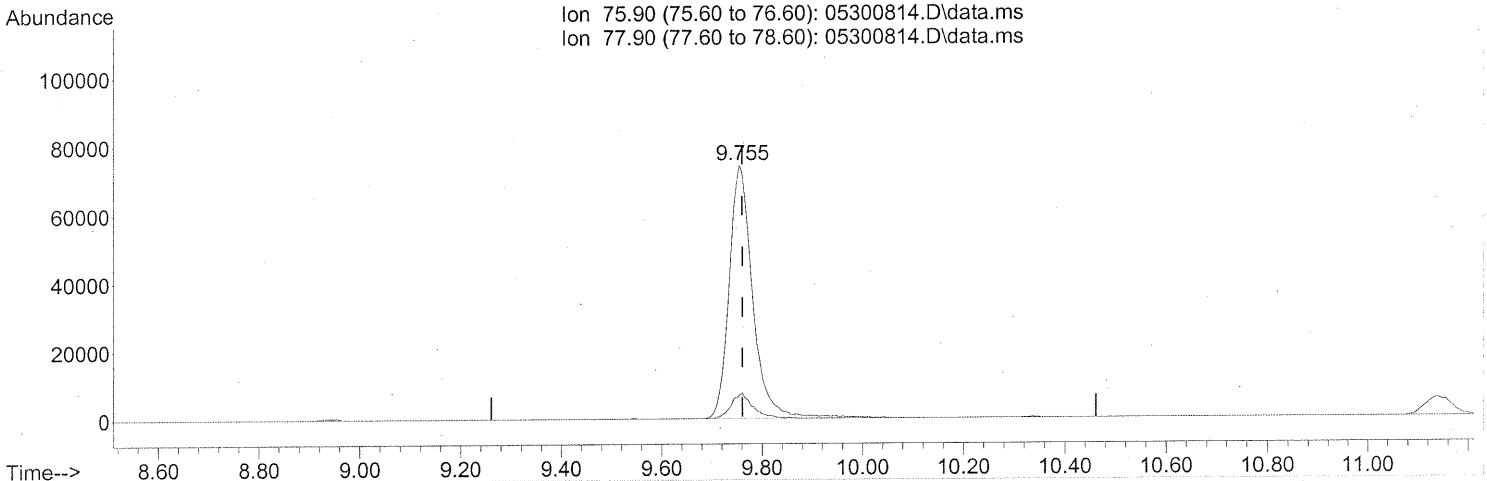
response 7793

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	114.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(22) Carbon Disulfide (T)

9.755min (-0.006) 3.09ng

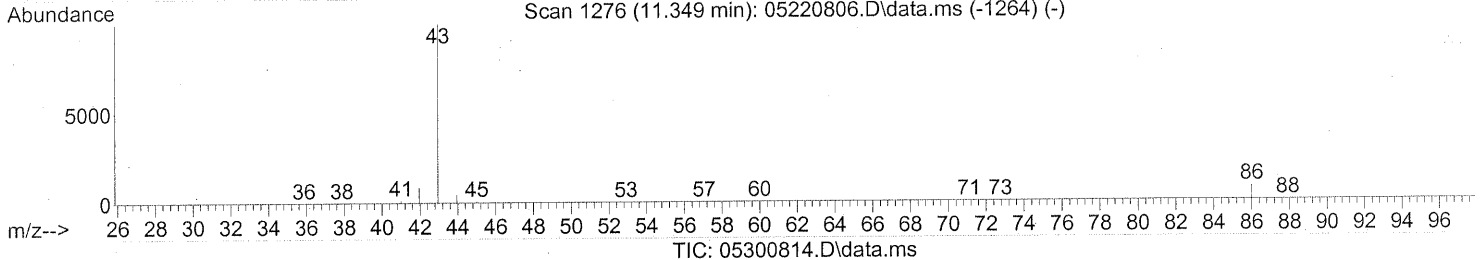
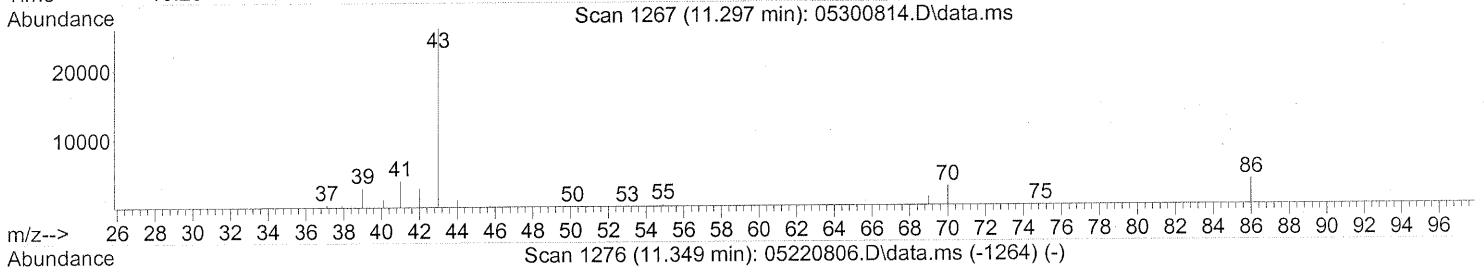
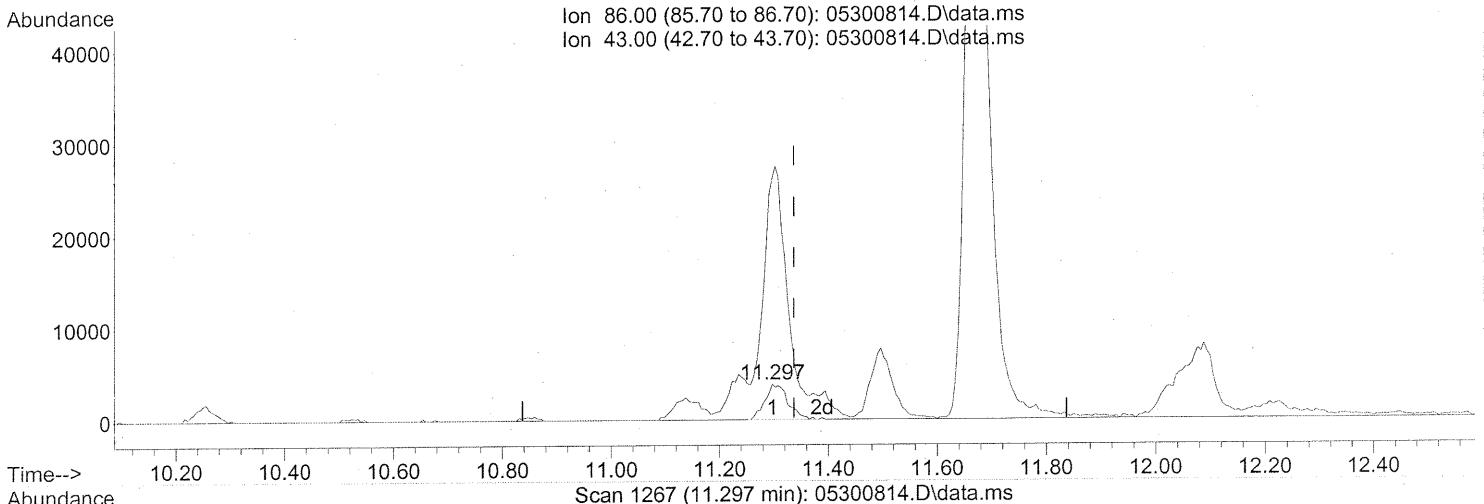
response 240252

Ion	Exp%	Act%
75.90	100	100
77.90	8.70	9.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.297min (-0.040) 3.30ng

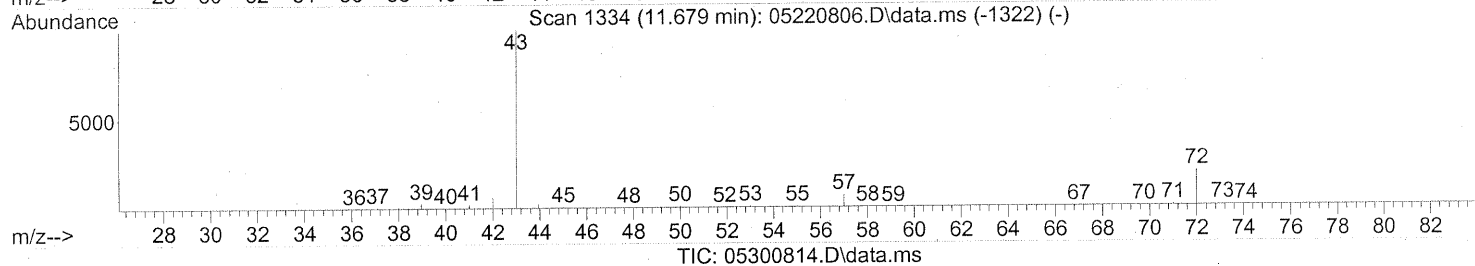
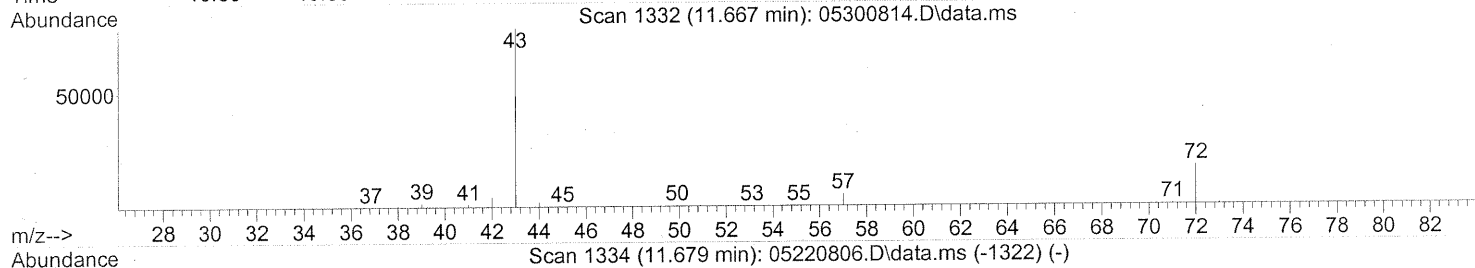
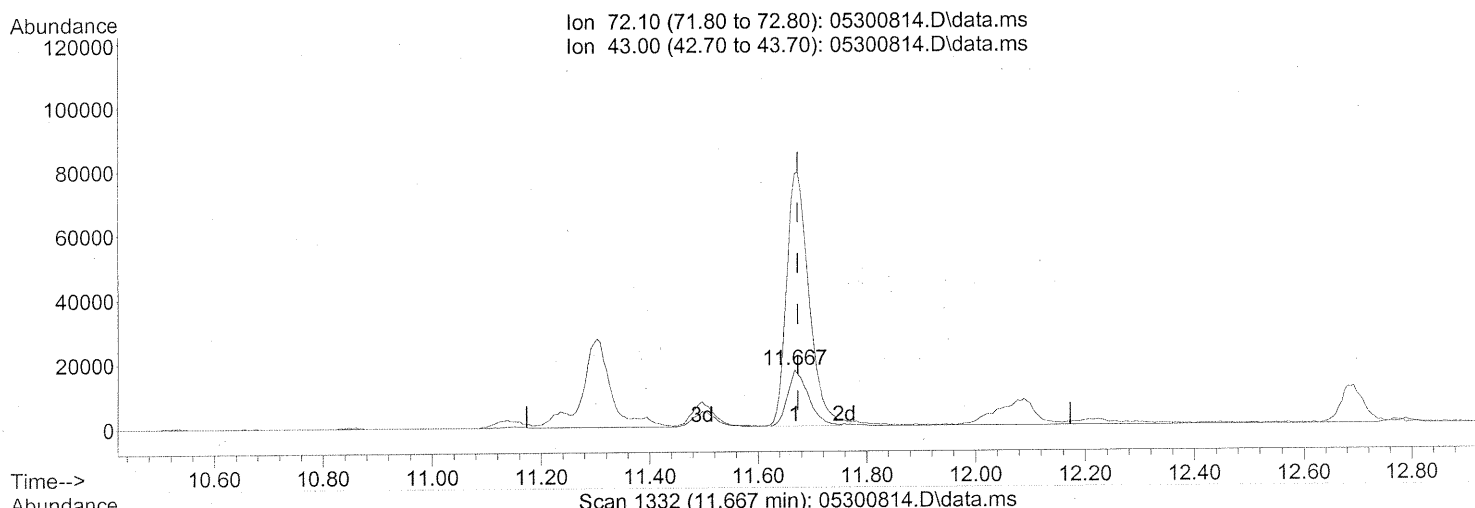
response 11181

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	781.88#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(27) 2-Butanone (T)

11.667min (-0.006) 3.44ng

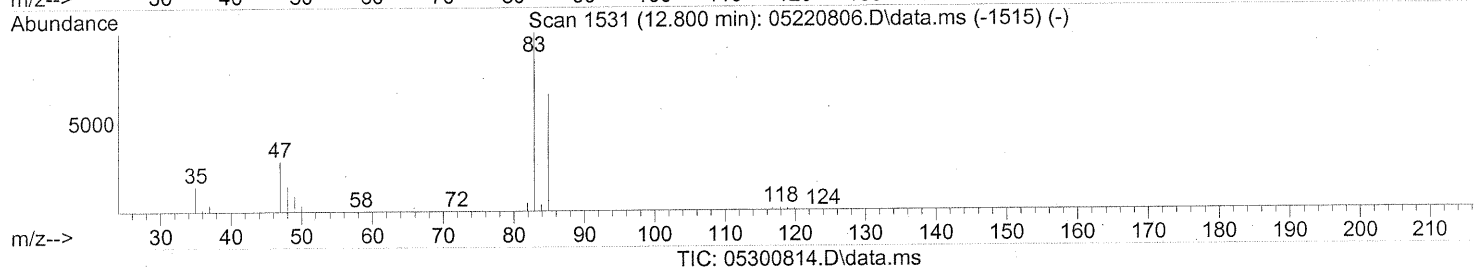
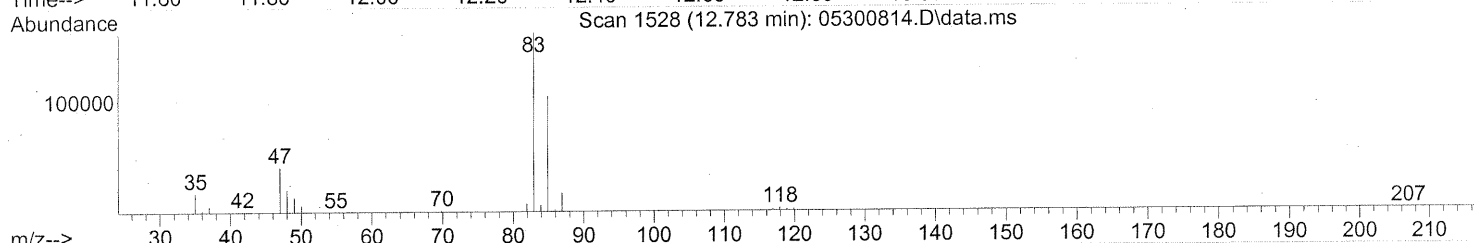
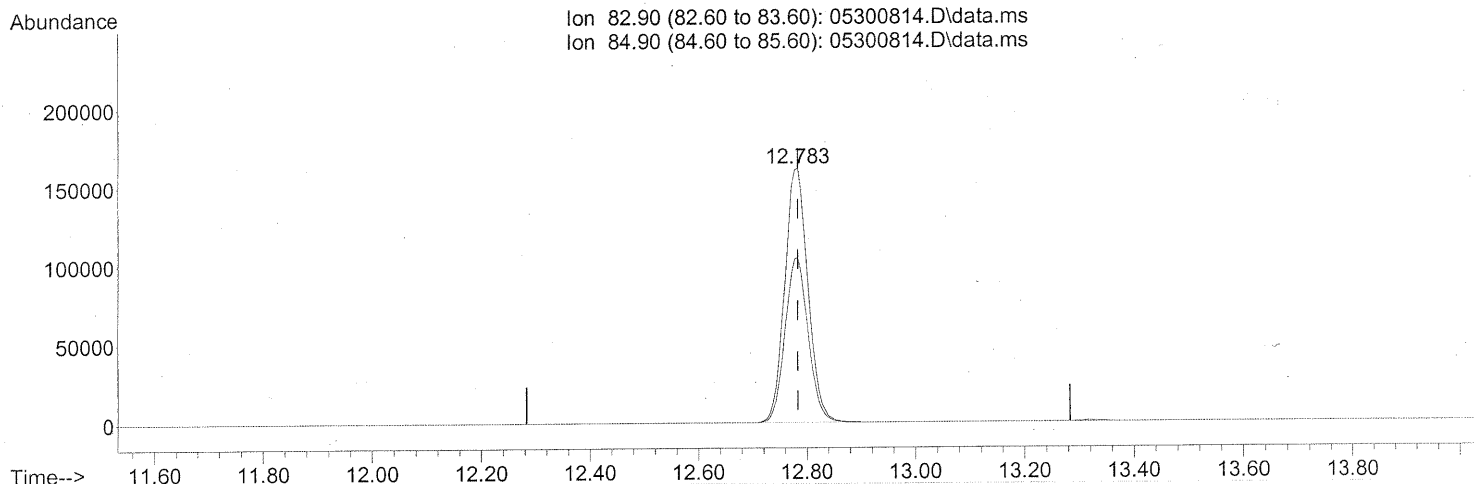
response 46062

Ion	Exp%	Act%
72.10	100	100
43.00	506.80	496.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(32) Chloroform (T)

12.783min (+0.000) 15.39ng

response 477933

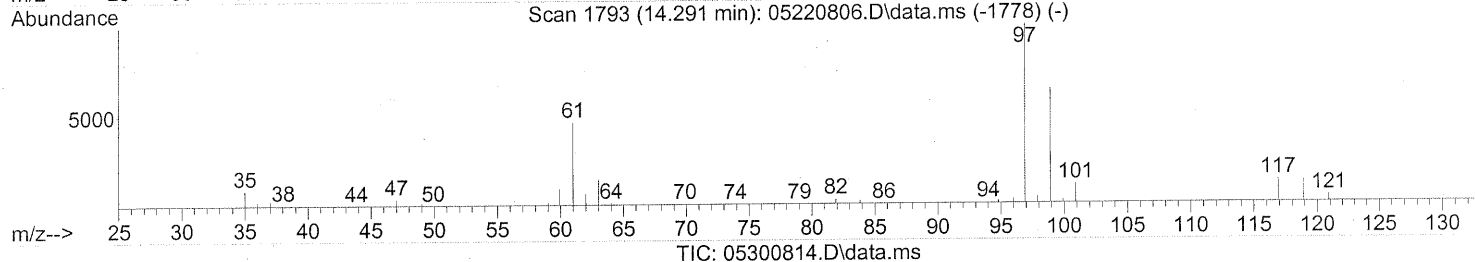
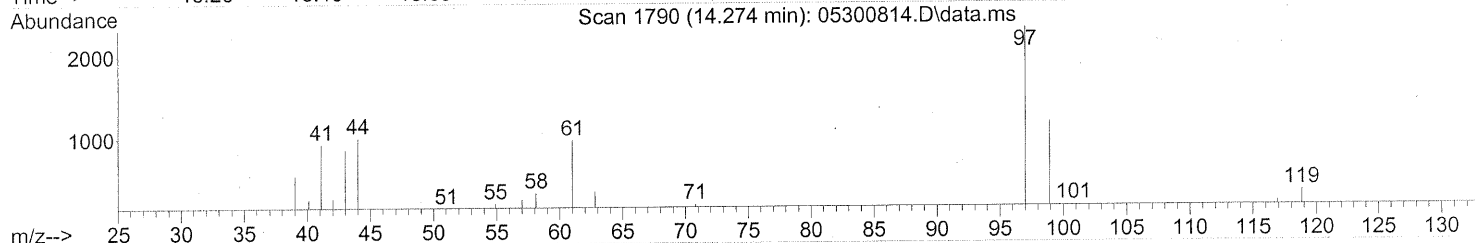
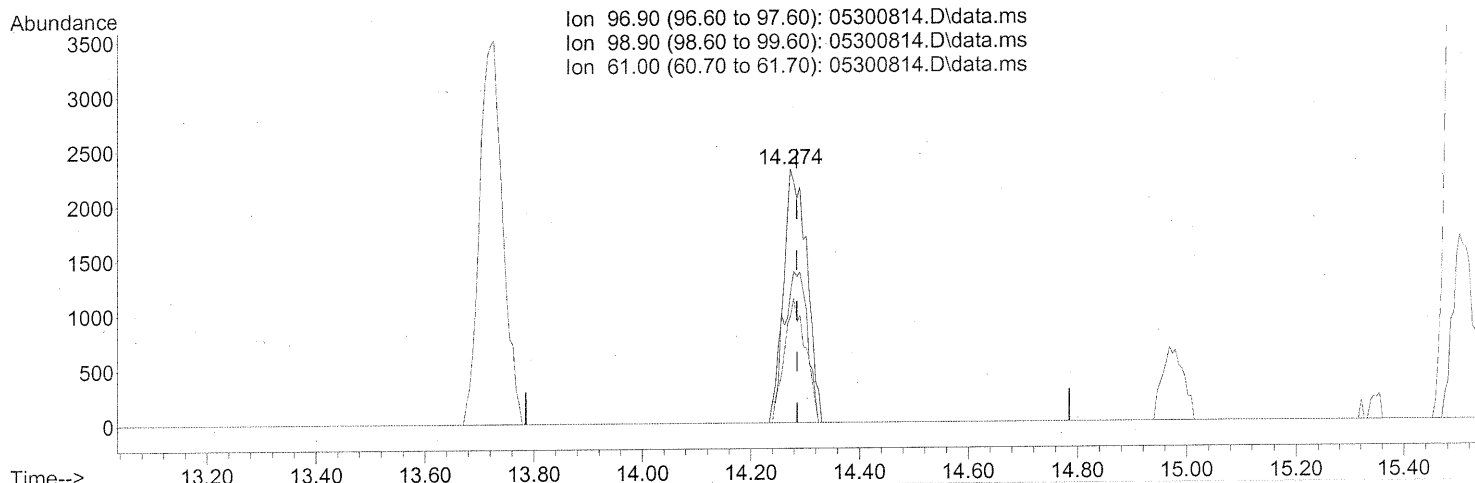
Ion	Exp%	Act%
82.90	100	100
84.90	64.70	64.40
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(38) 1,1,1-Trichloroethane (T)

14.274min (-0.011) 0.21ng

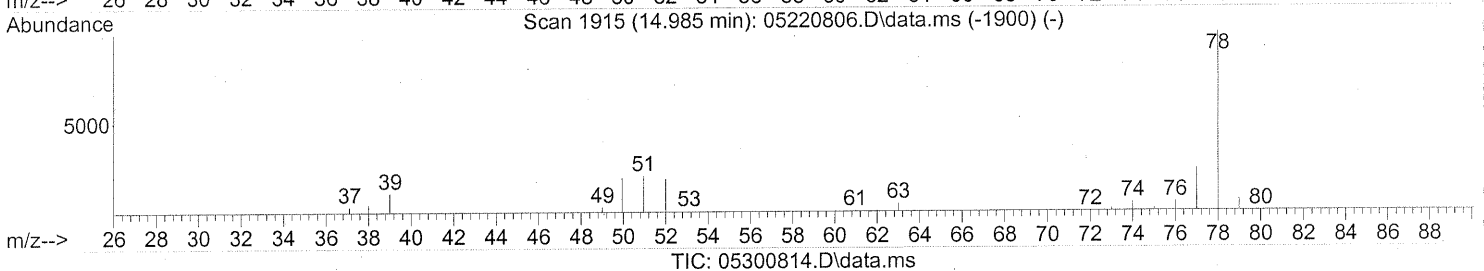
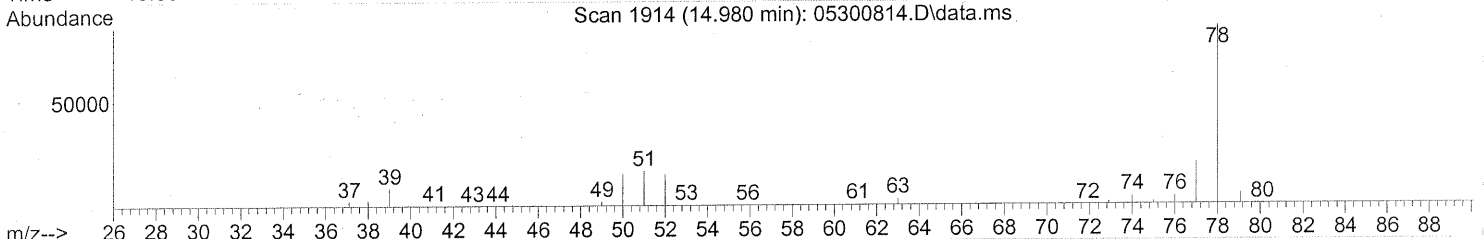
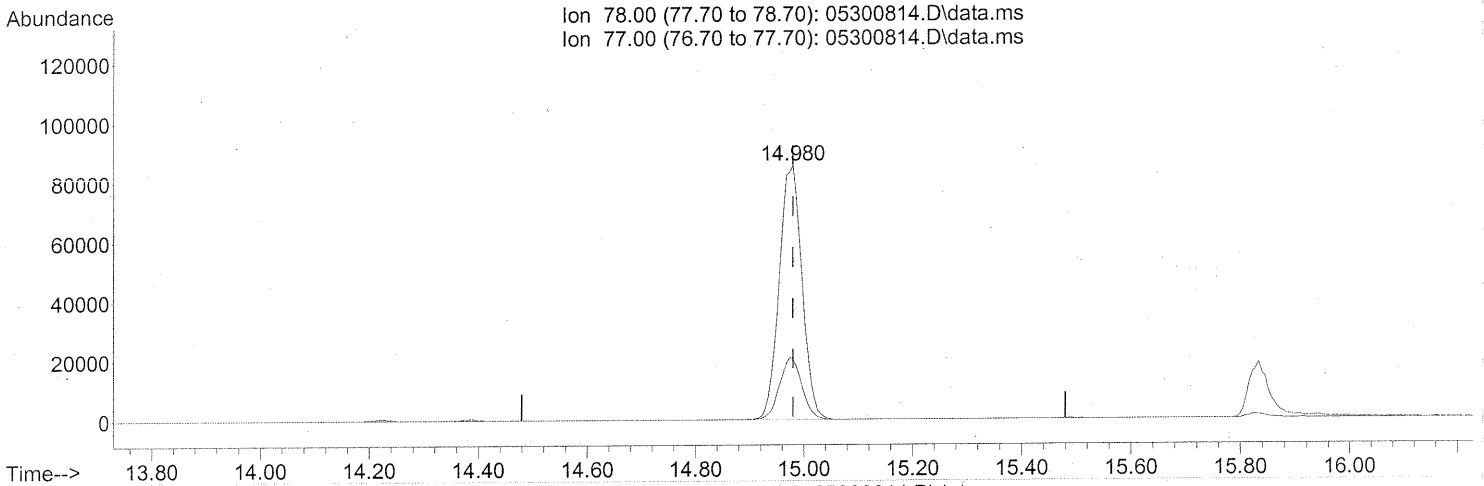
response 6890

Ion	Exp%	Act%
96.90	100	100
98.90	63.40	61.10
61.00	50.50	44.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(41) Benzene (T)

14.980min (+0.000) 3.30ng

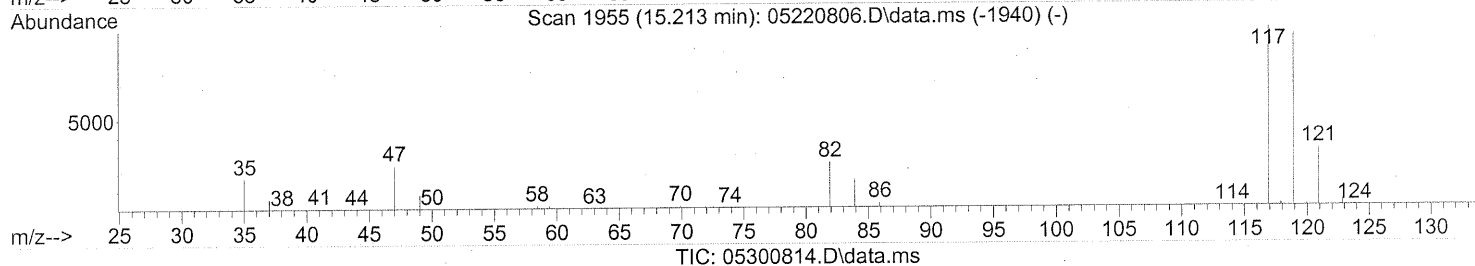
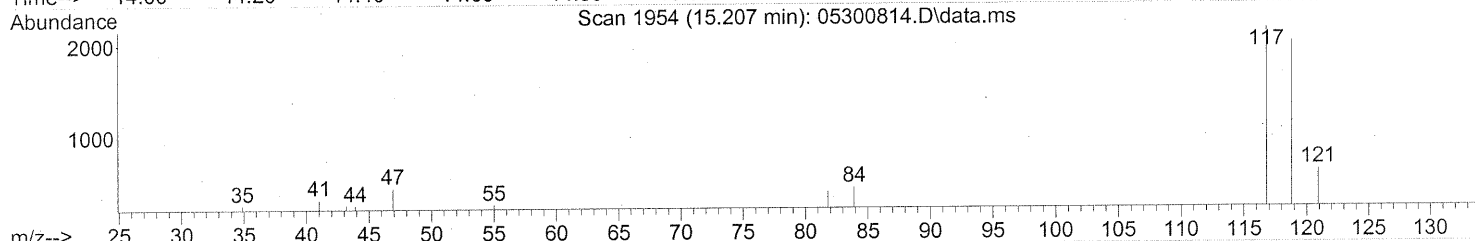
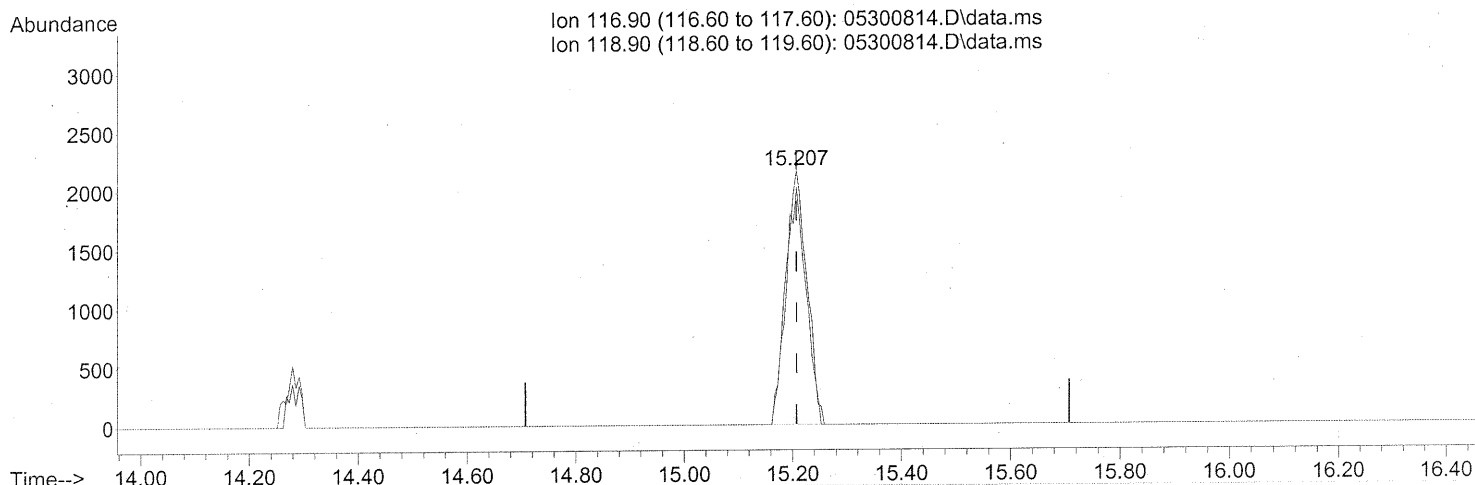
response 247591

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.85
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(42) Carbon Tetrachloride (T)

15.207min (+0.000) 0.20ng

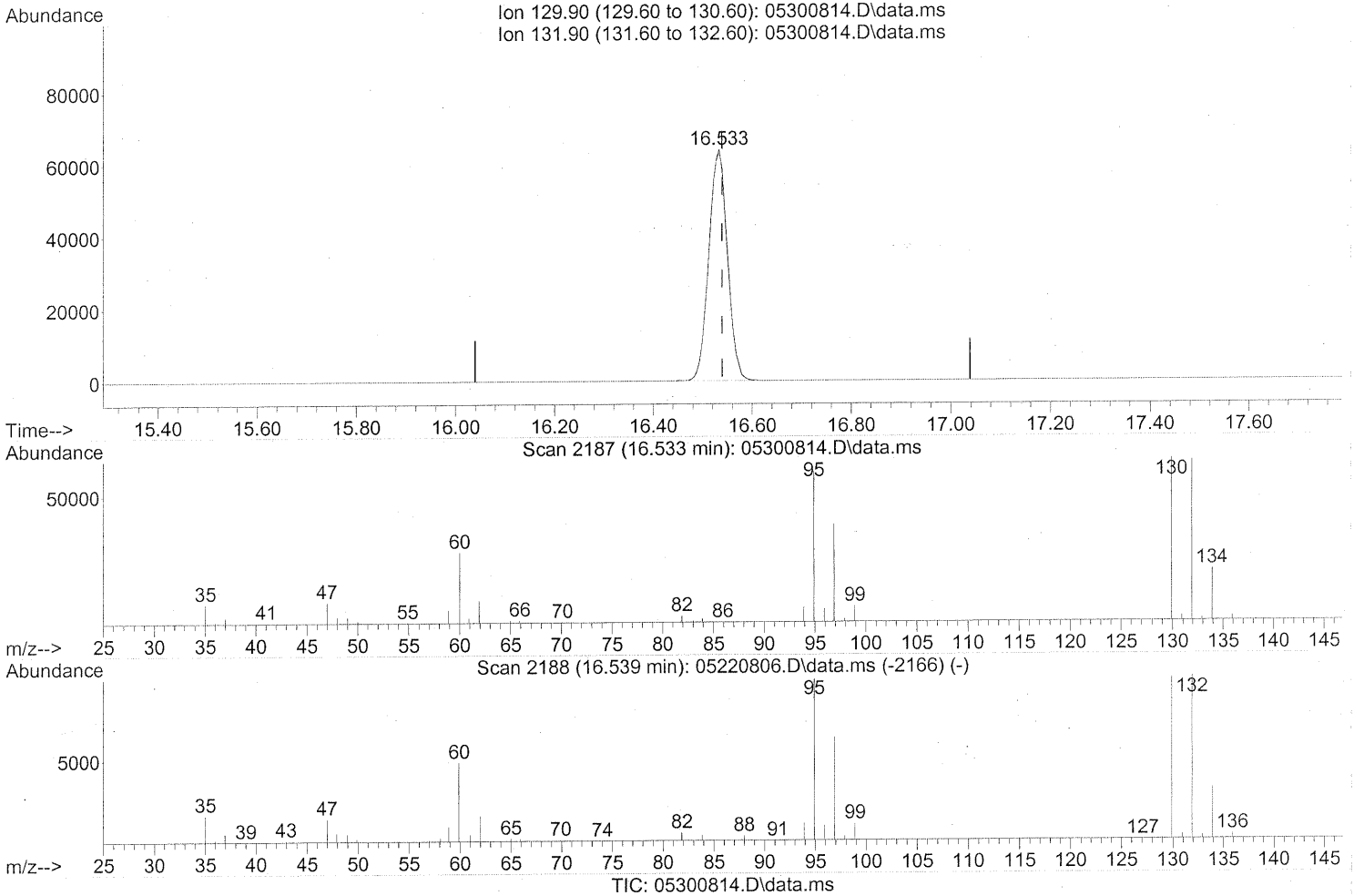
response 5820

Ion	Exp%	Act%
116.90	100	100
118.90	96.60	90.19
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



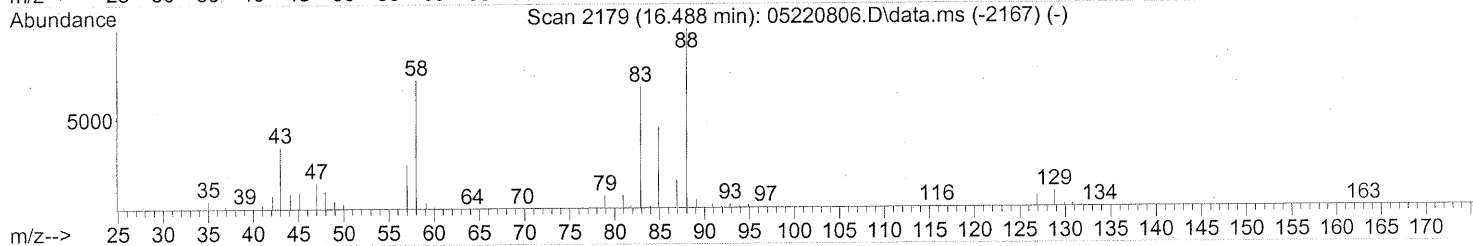
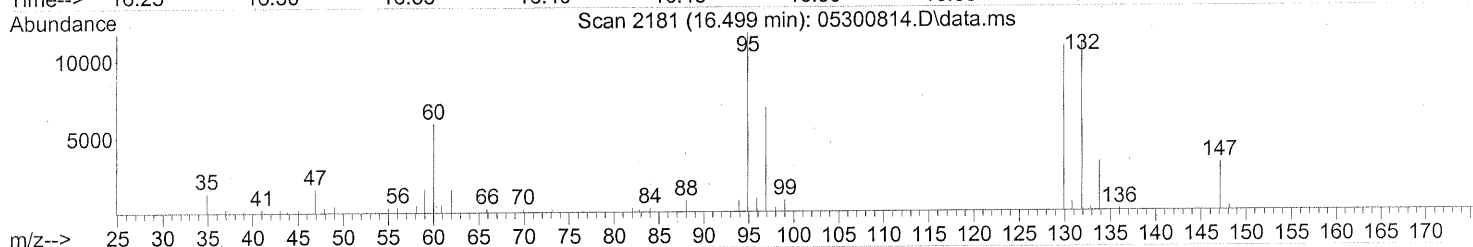
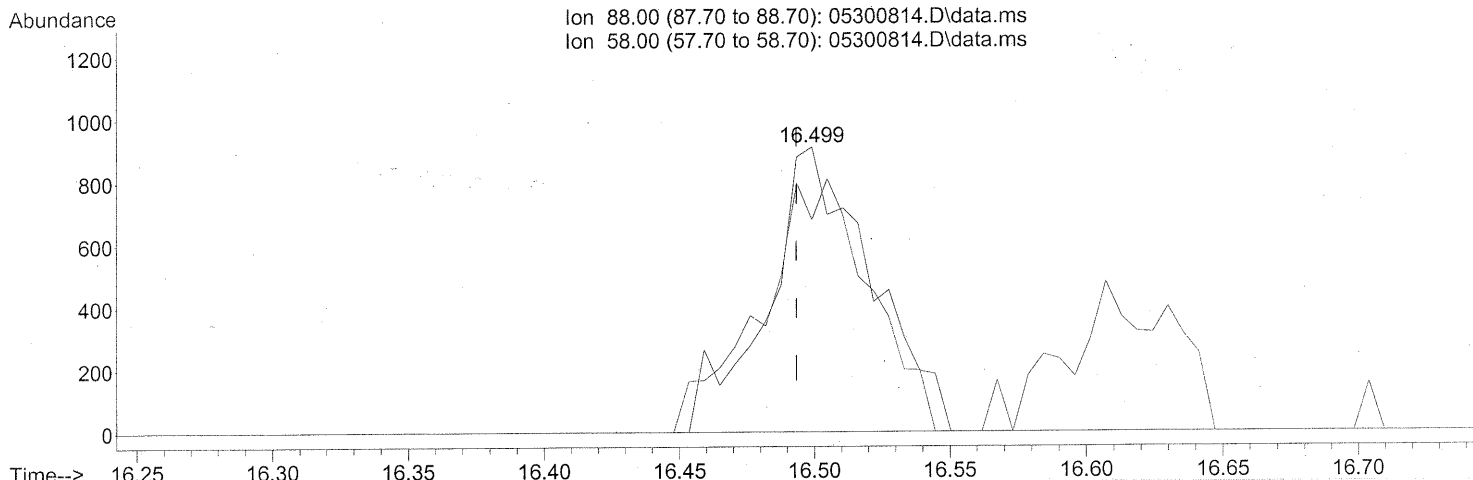
(47) Trichloroethene (T)  
 16.533min (-0.006) 7.14ng  
 response 164417

Ion	Exp%	Act%
129.90	100	100
131.90	101.20	101.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.17ng  
 response 2445

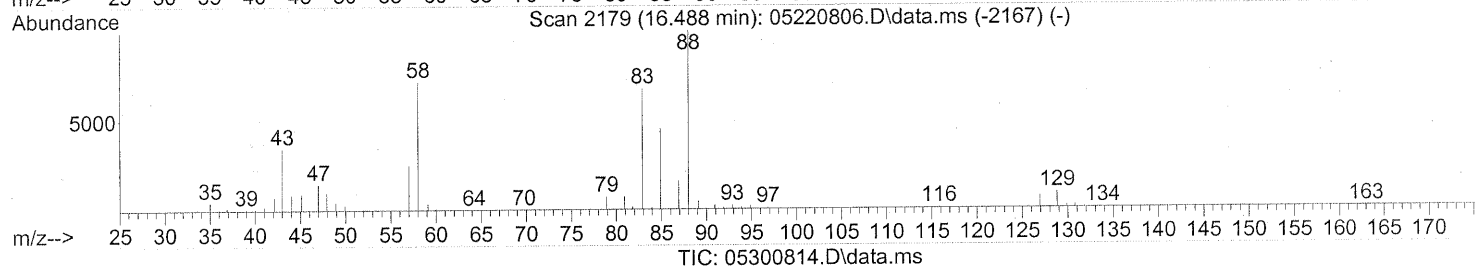
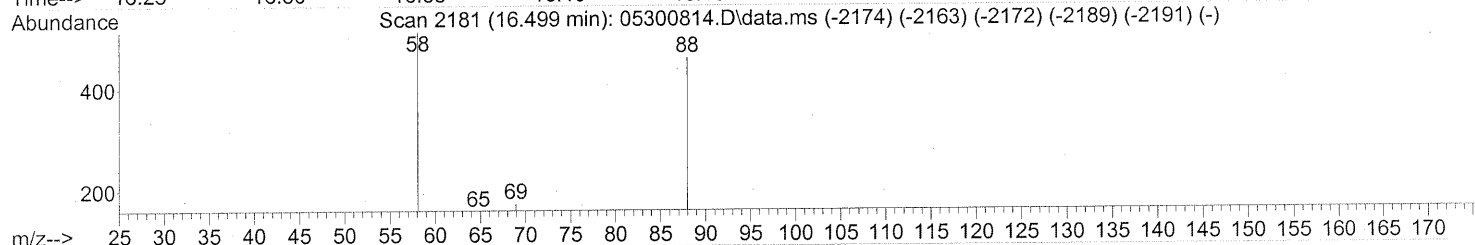
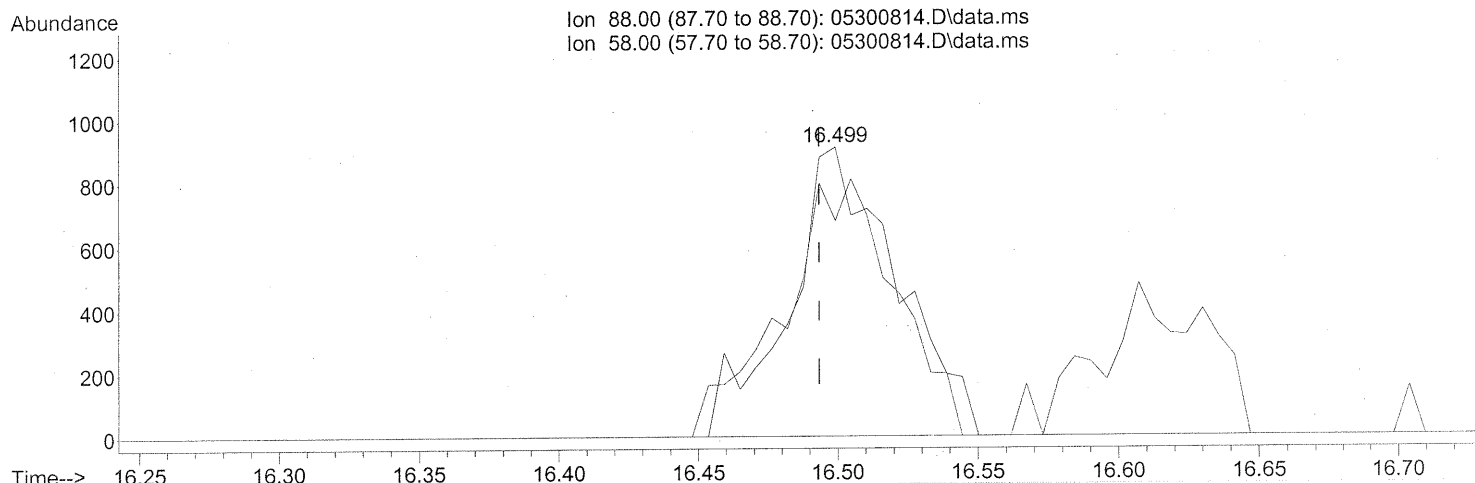
BEFORE SUBTRACTION

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	93.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.499min (+0.006) 0.17ng  
 response 2445

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	93.74
0.00	0.00	0.00
0.00	0.00	0.00

AFTER SUBTRACTION

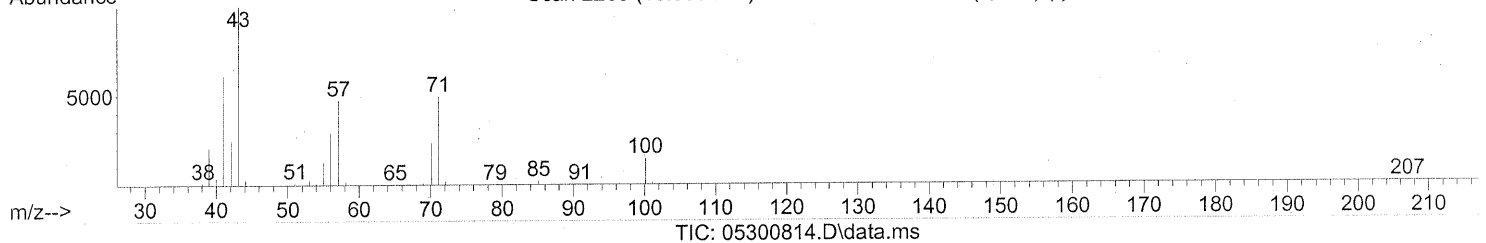
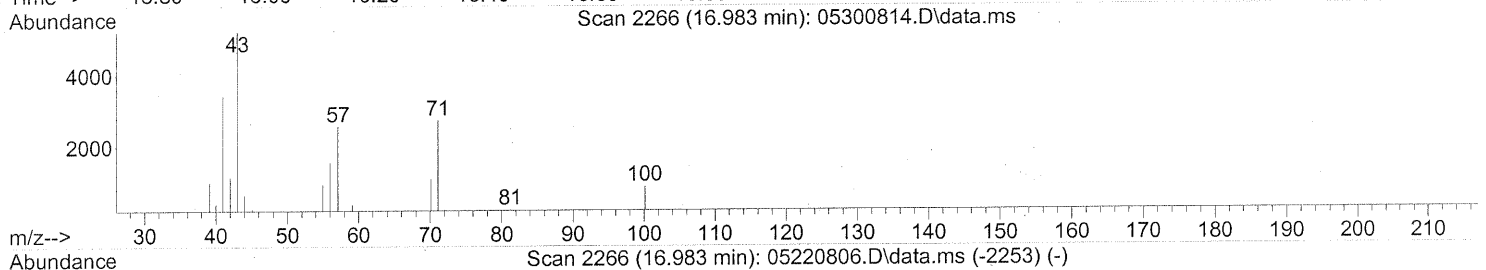
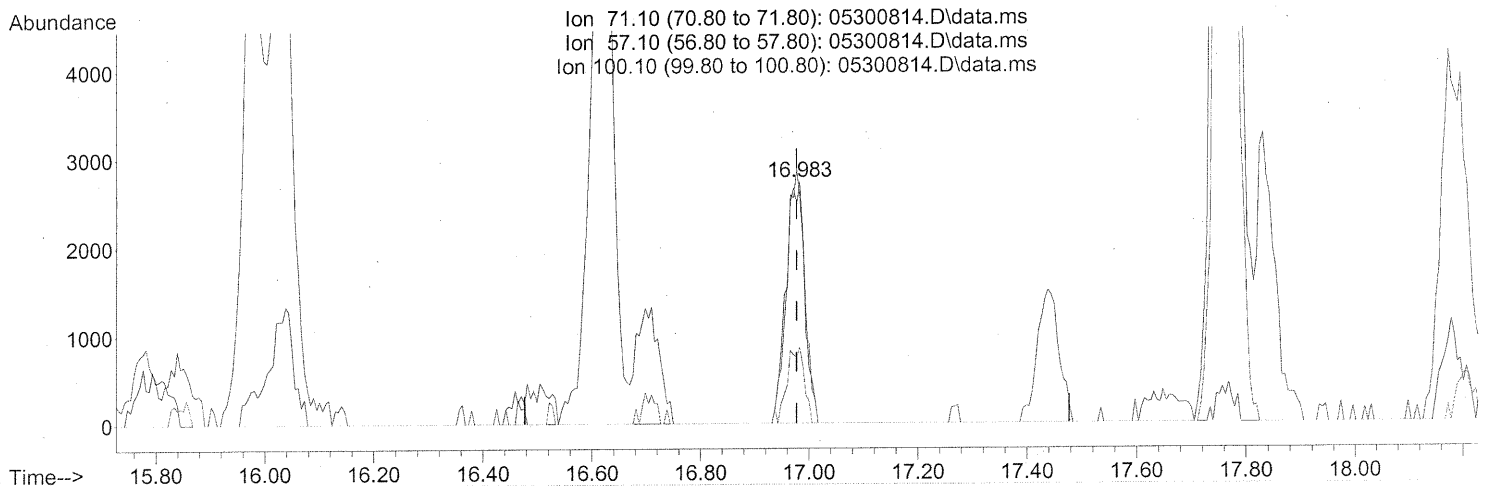
*Handwritten signature*

*Handwritten date: 6/9/08*

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



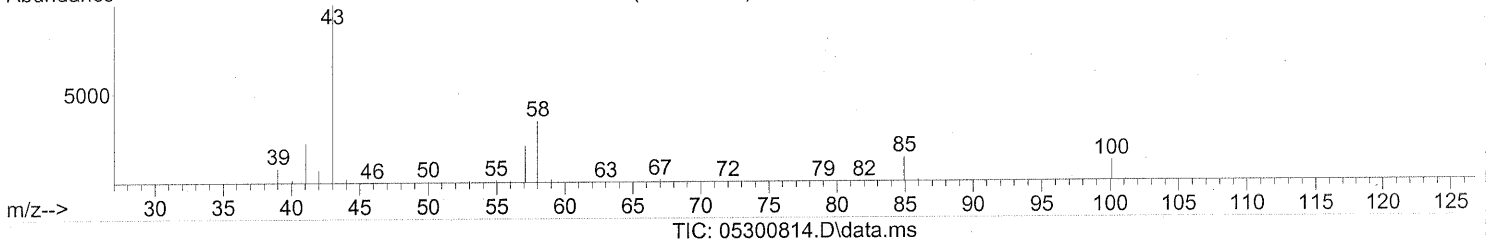
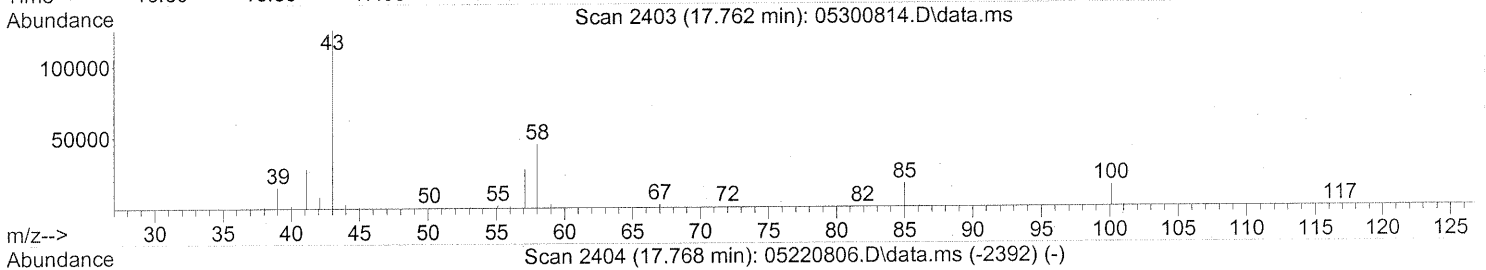
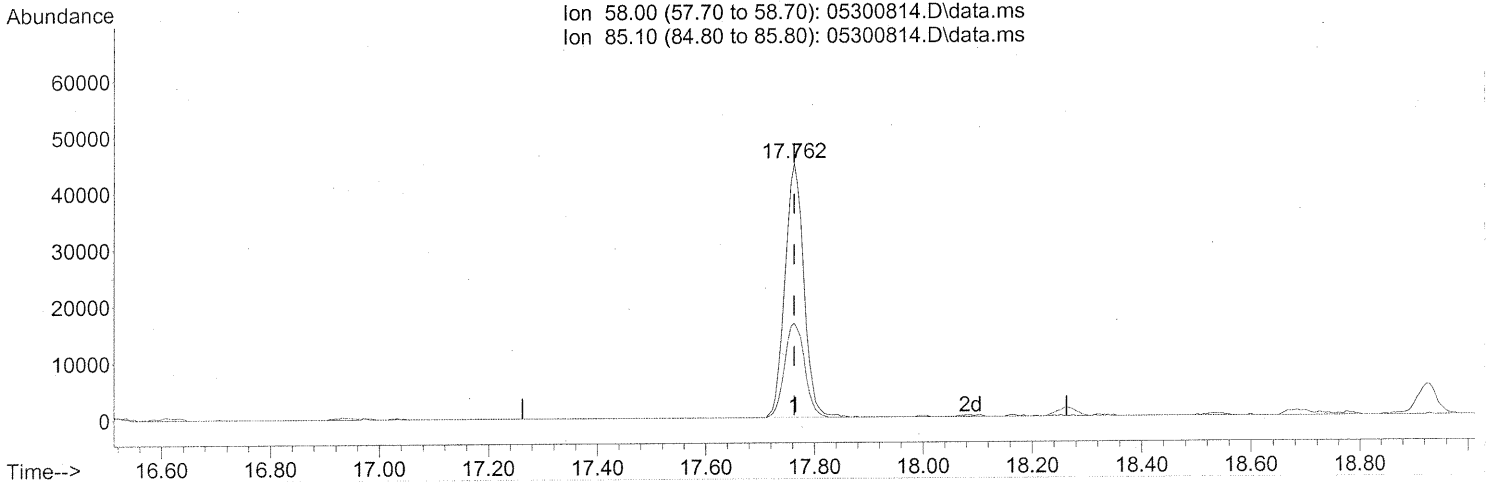
(51) n-Heptane (T)  
 16.983min (+0.006) 0.33ng  
 response 6658

Ion	Exp%	Act%
71.10	100	100
57.10	124.90	98.44#
100.10	30.10	28.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



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

17.762min (+0.000) 5.42ng

response 108085

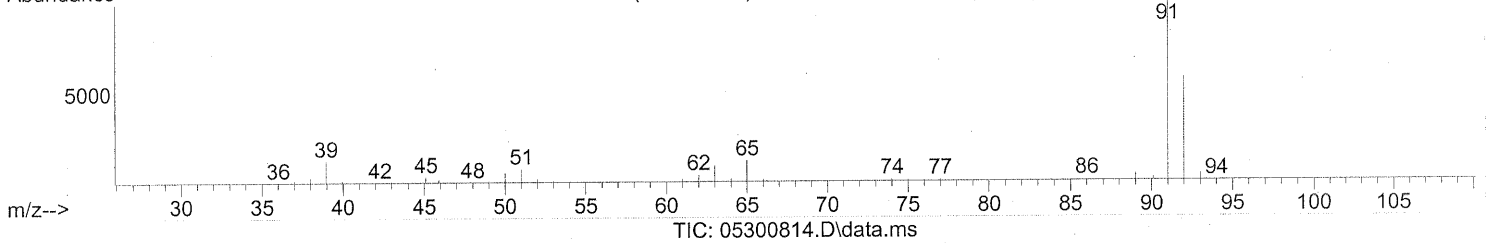
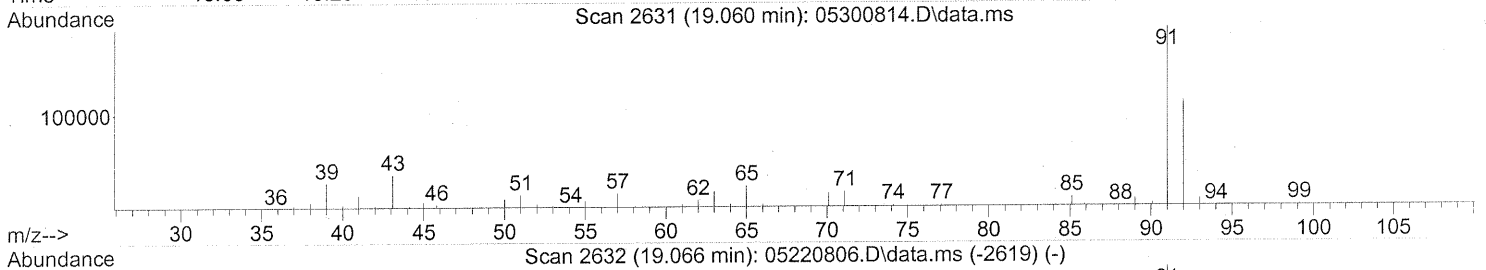
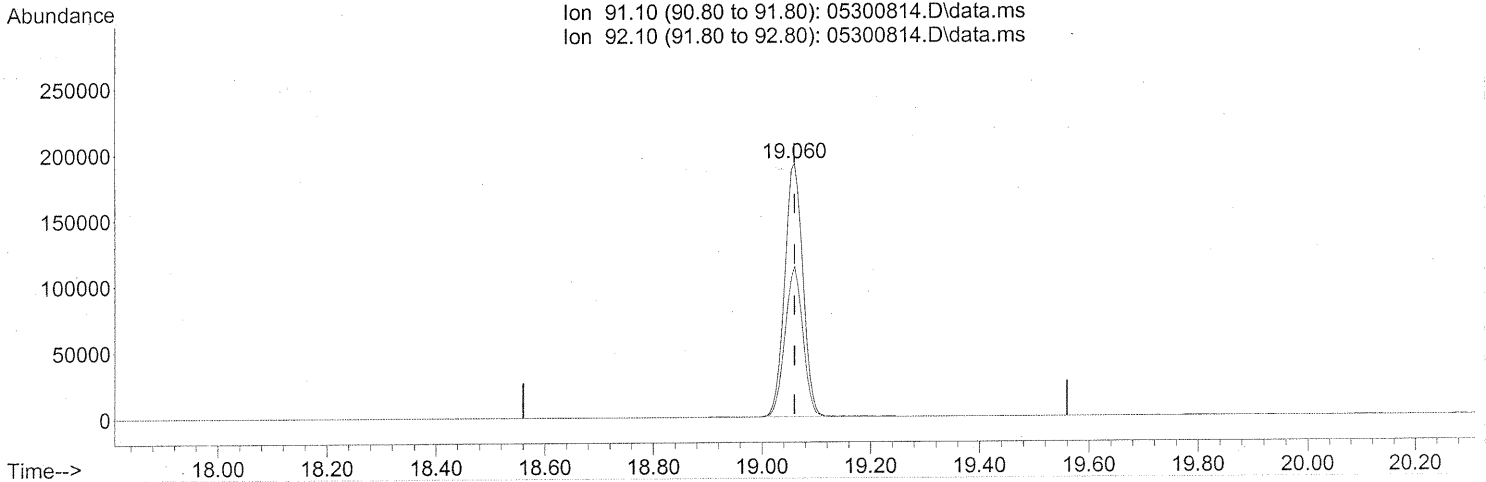
Ion	Exp%	Act%
58.00	100	100
85.10	30.10	39.32
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



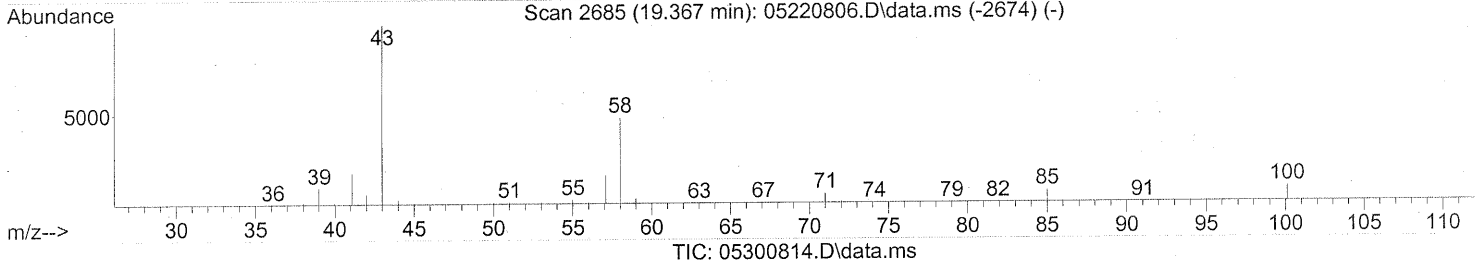
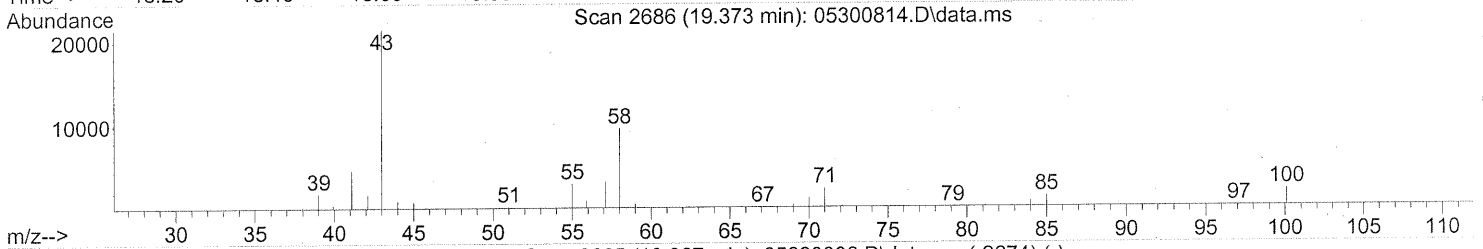
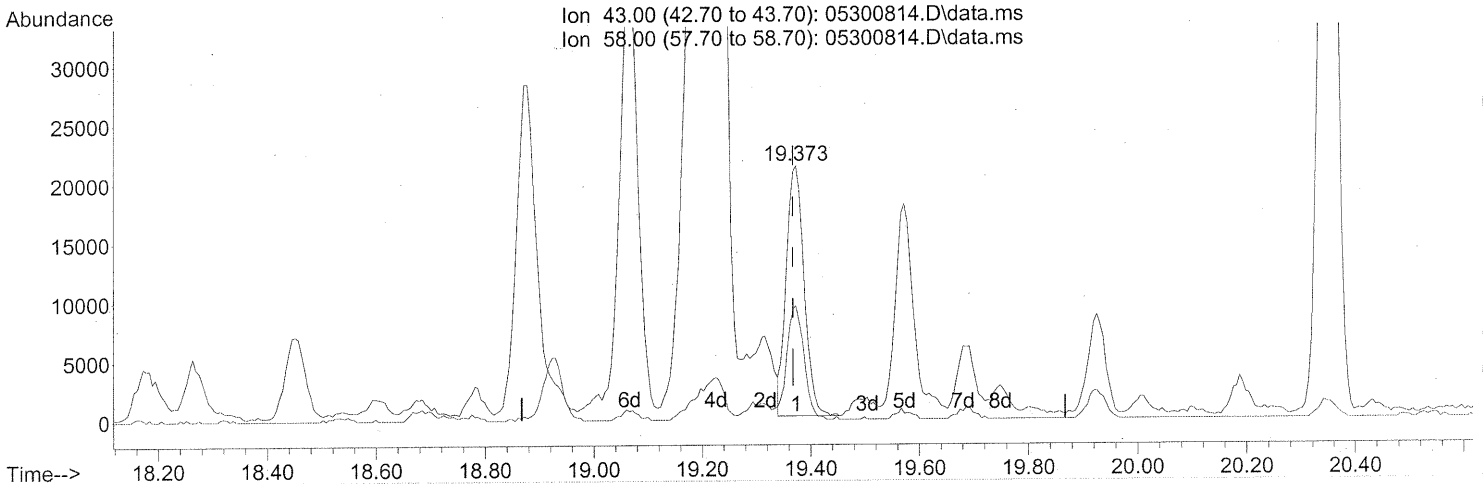
(58) Toluene (T)  
19.060min (+0.000) 5.46ng  
response 447869

Ion	Exp%	Act%
91.10	100	100
92.10	59.80	57.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



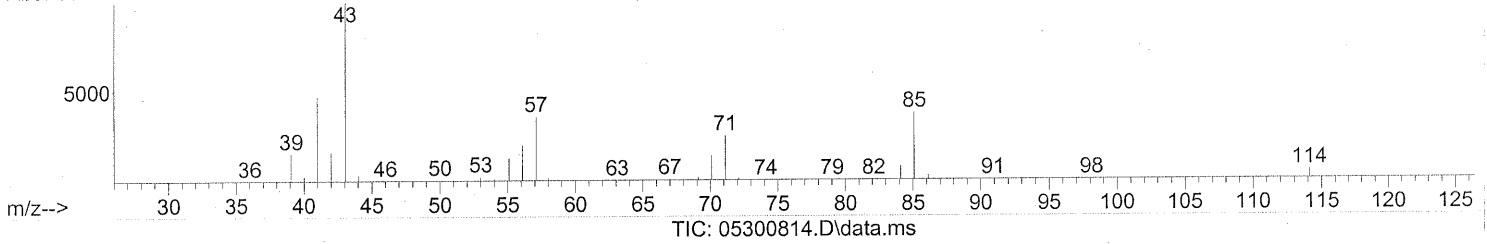
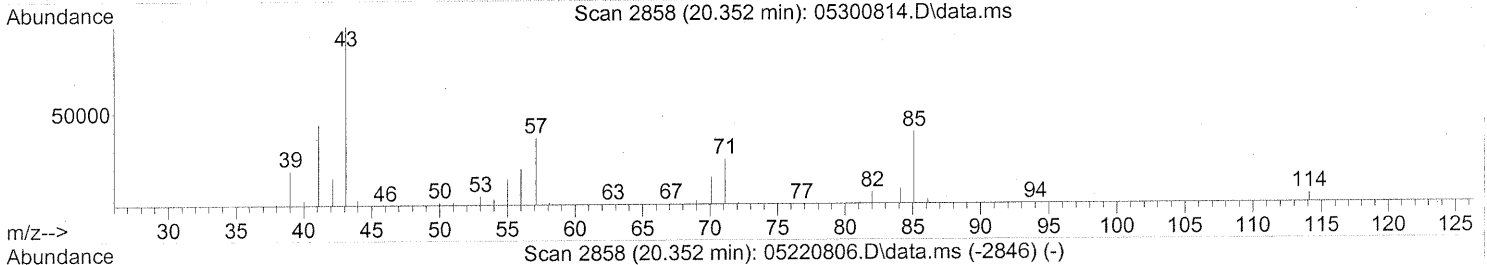
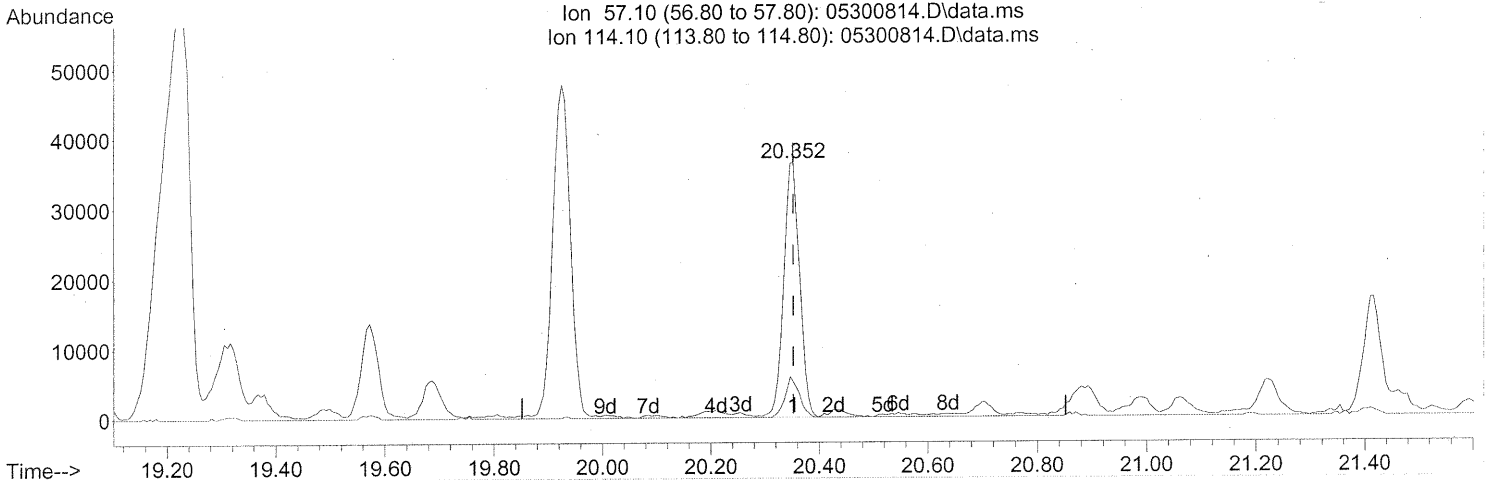
(59) 2-Hexanone (T)  
 19.373min (+0.006) 0.85ng  
 response 48300

Ion	Exp%	Act%
43.00	100	100
58.00	61.70	44.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



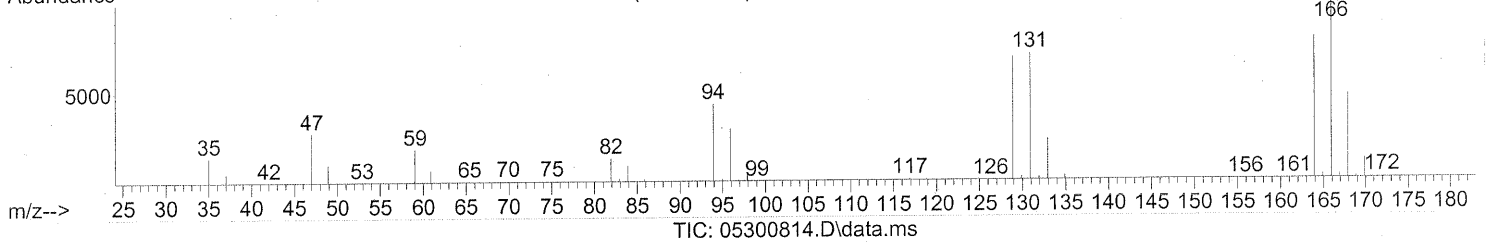
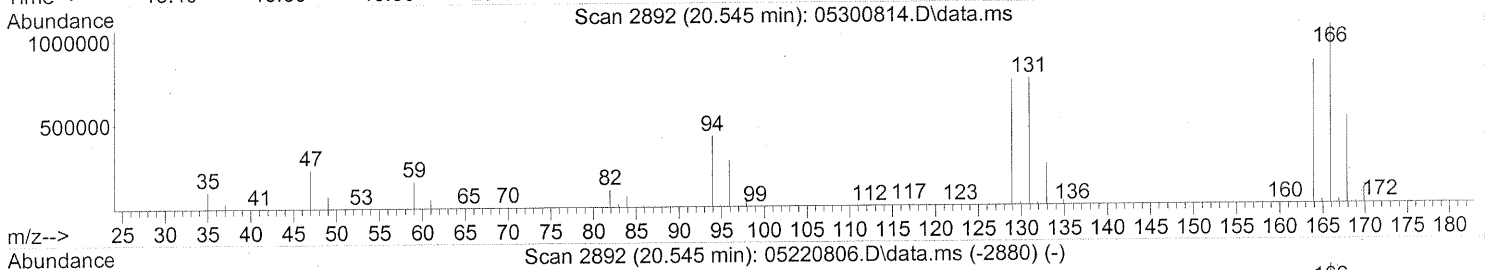
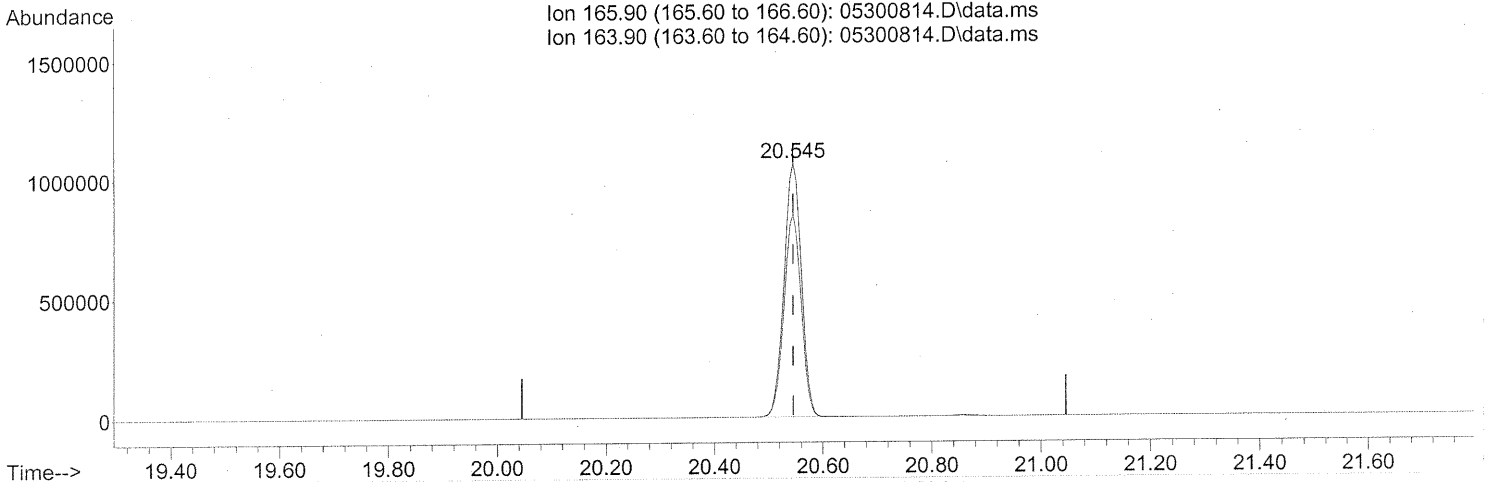
(63) n-Octane (T)  
 20.352min (+0.000) 4.10ng  
 response 74436

Ion	Exp%	Act%
57.10	100	100
114.10	10.20	14.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(64) Tetrachloroethene (T)

20.545min (+0.000) 96.12ng

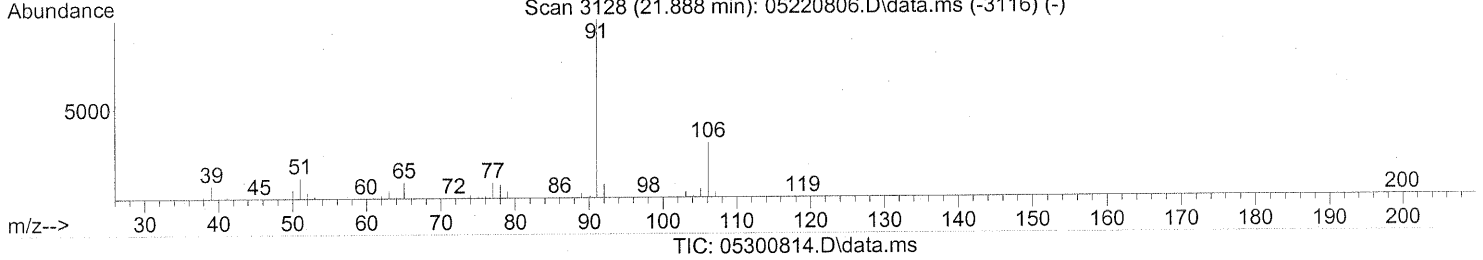
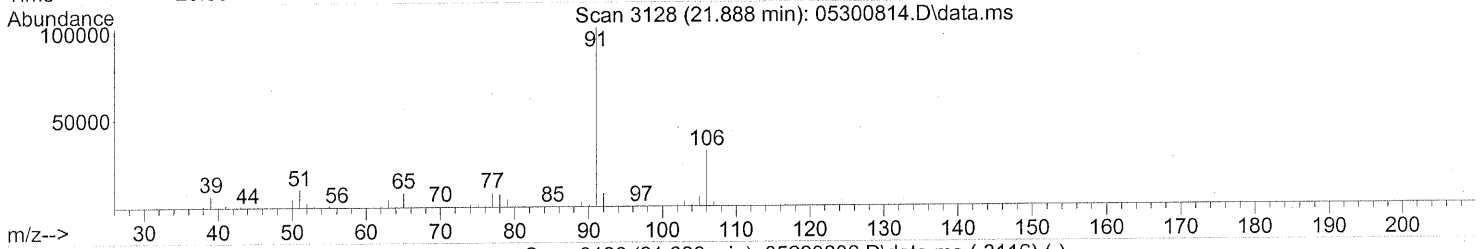
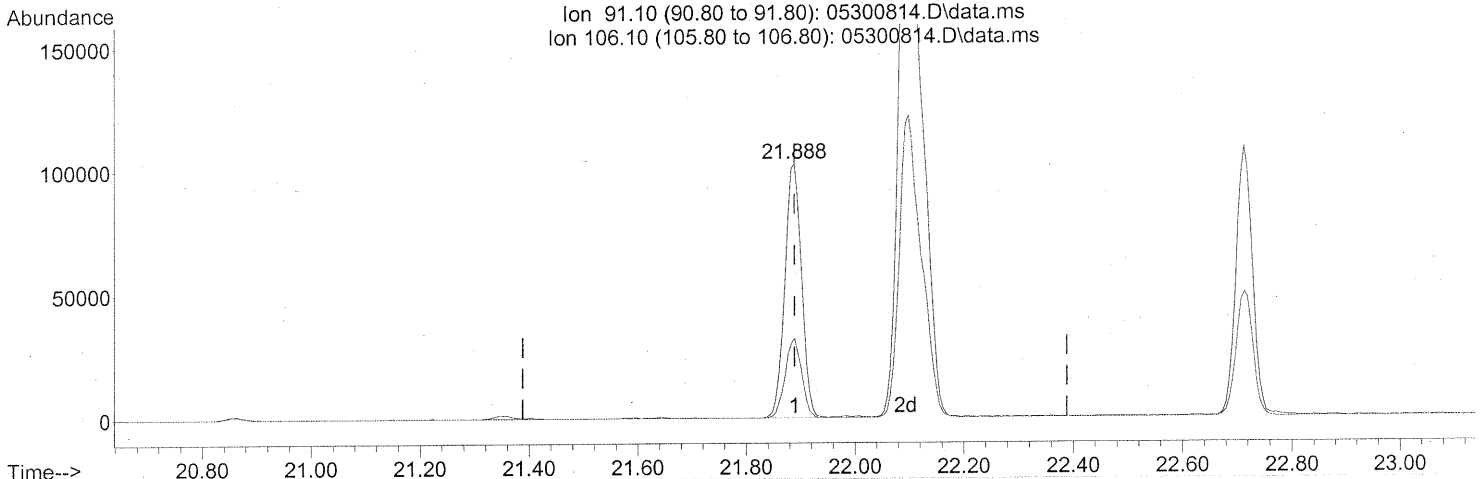
response 2332410

Ion	Exp%	Act%
165.90	100	100
163.90	78.70	79.26
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



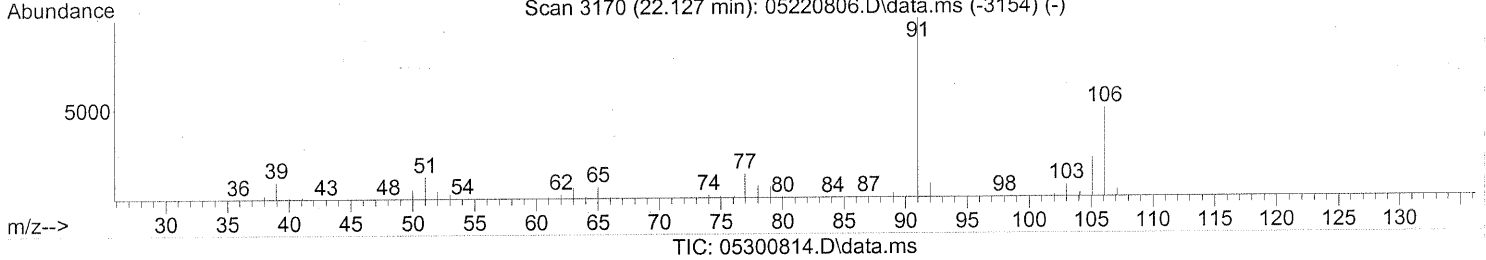
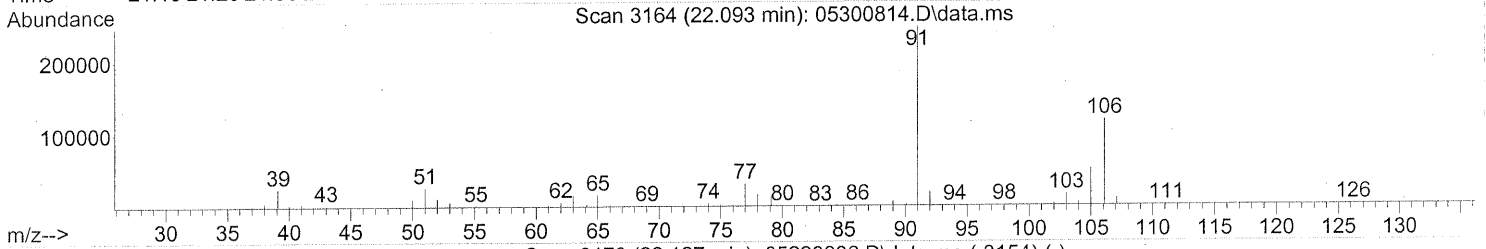
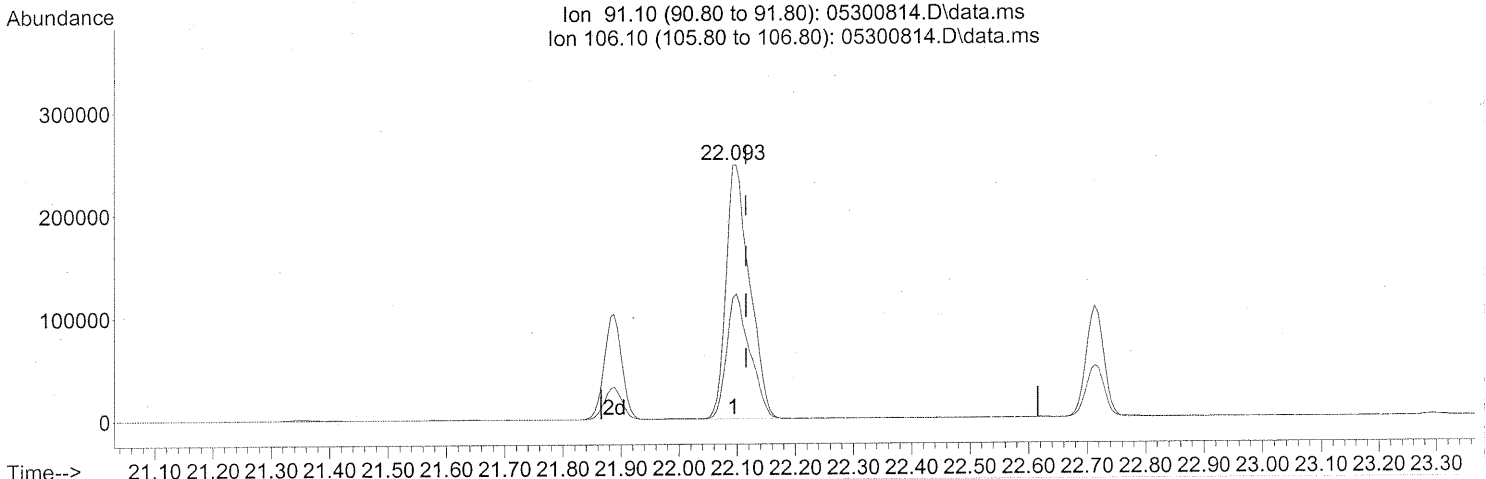
(66) Ethylbenzene (T)  
 21.888min (+0.000) 2.30ng  
 response 216313

Ion	Exp%	Act%
91.10	100	100
106.10	34.10	30.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

22.093min (-0.023) 11.16ng

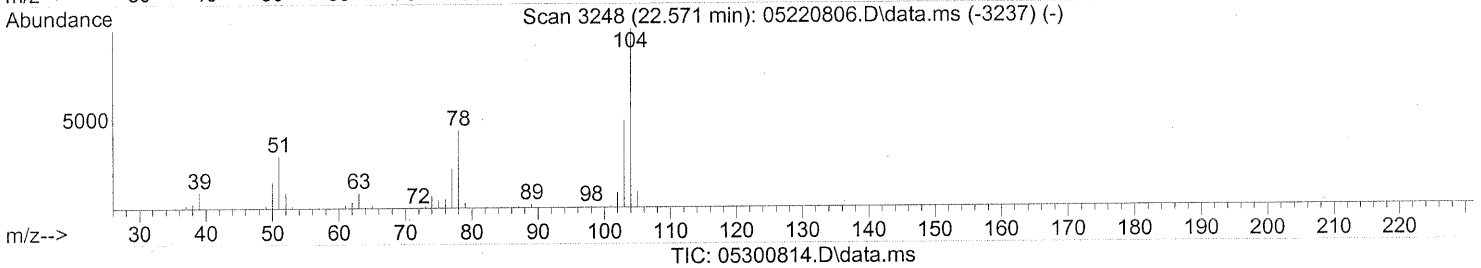
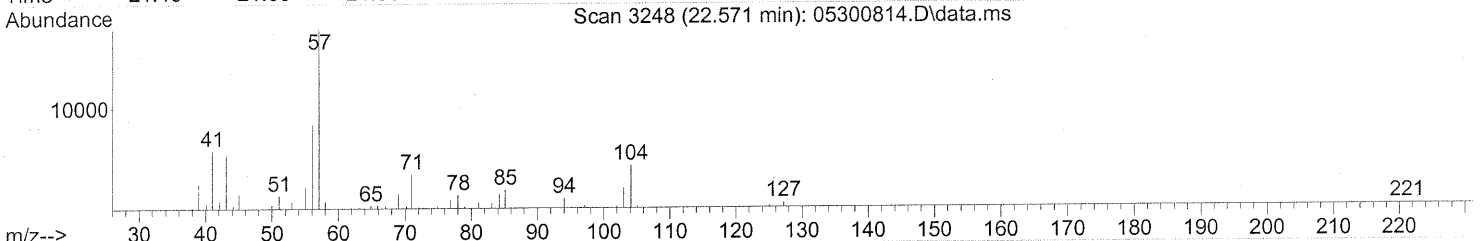
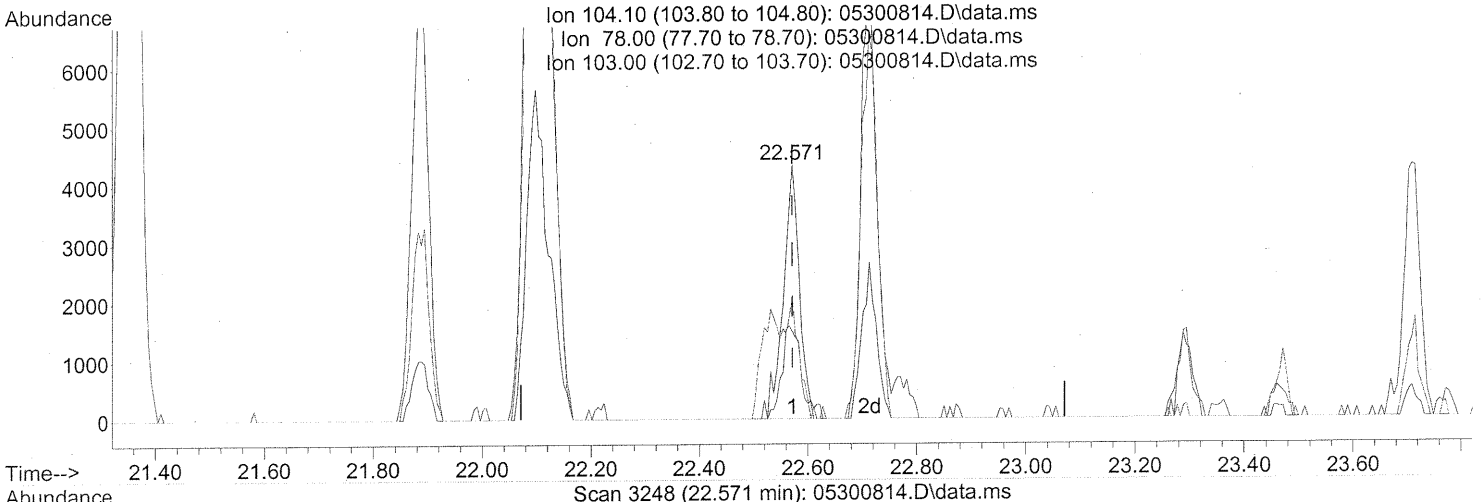
response 702201

Ion	Exp%	Act%
91.10	100	100
106.10	54.60	48.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



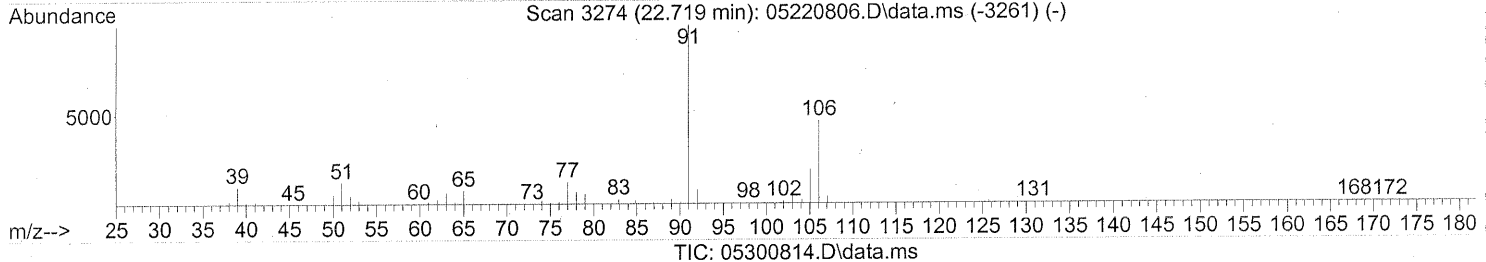
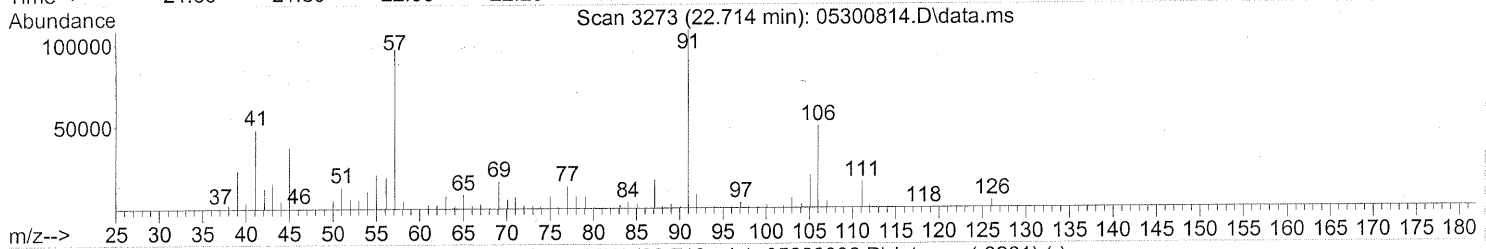
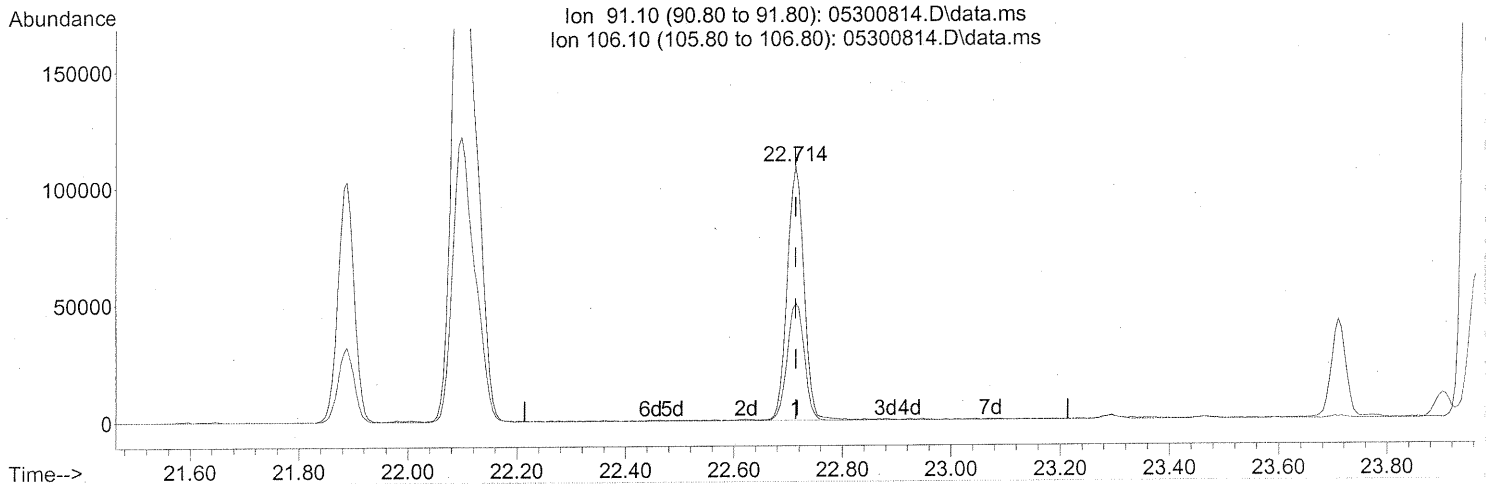
(69) Styrene (T)  
 22.571min (+0.000) 0.16ng  
 response 8965

Ion	Exp%	Act%
104.10	100	100
78.00	39.40	44.45
103.00	47.10	32.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(70) o-Xylene (T)

22.714min (+0.000) 3.40ng

response 230697

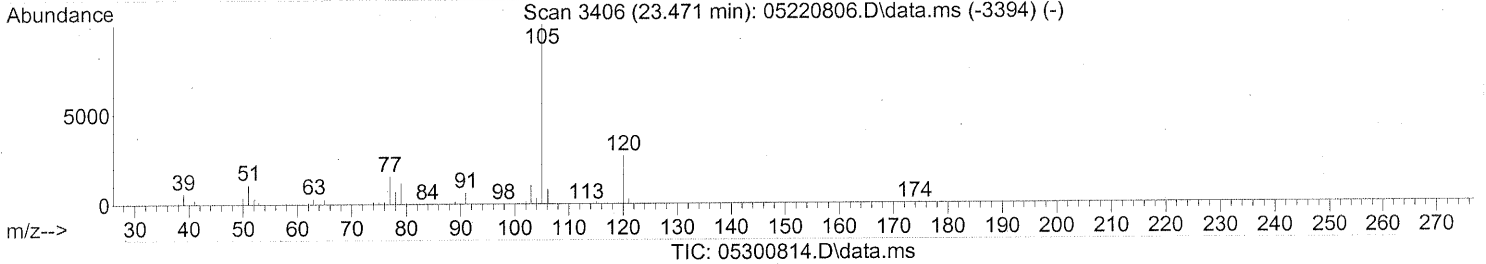
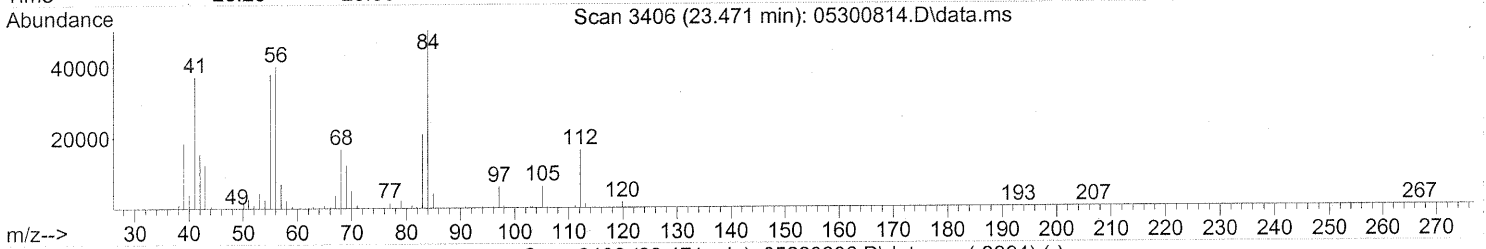
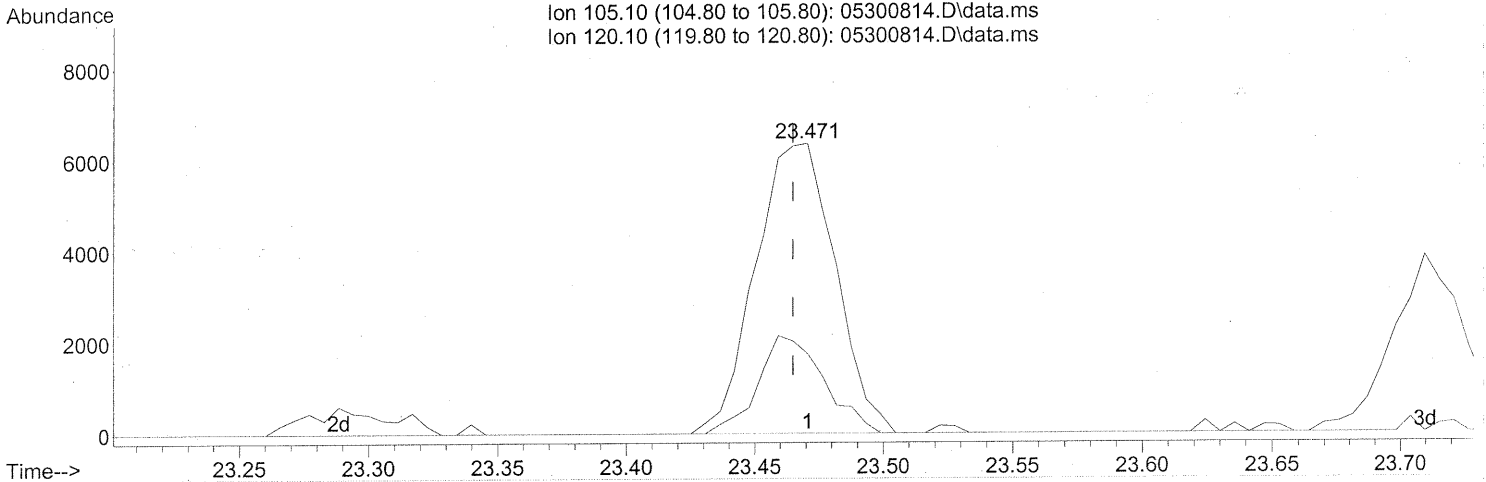
Ion	Exp%	Act%
91.10	100	100
106.10	50.50	46.85
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(74) Cumene (T)

23.471min (+0.006) 0.15ng

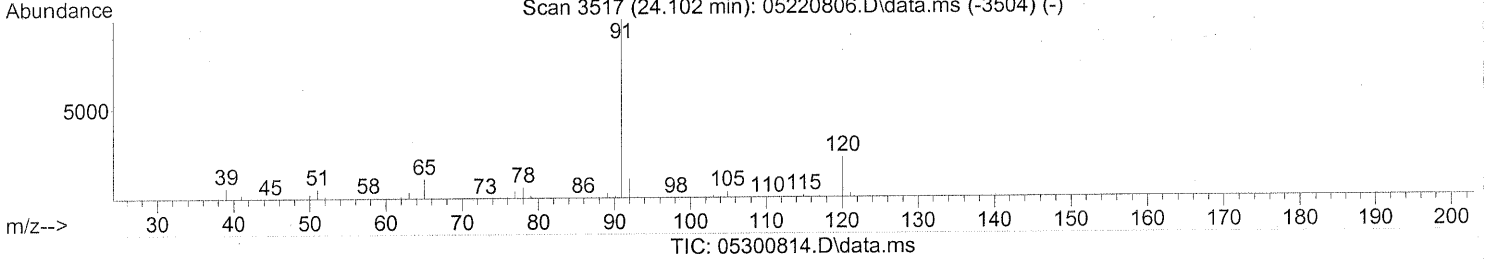
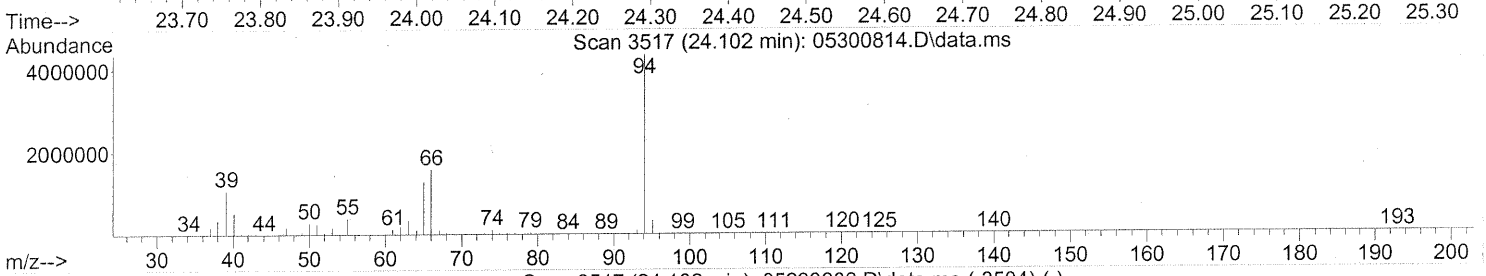
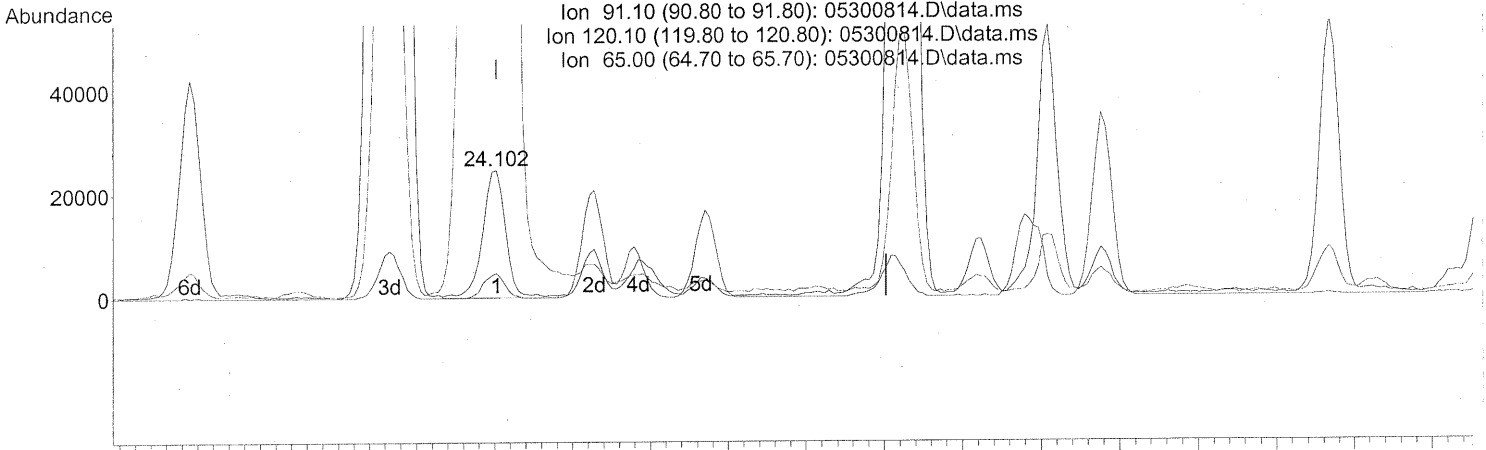
response 13640

Ion	Exp%	Act%
105.10	100	100
120.10	26.30	27.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (+0.000) 0.44ng

response 50598

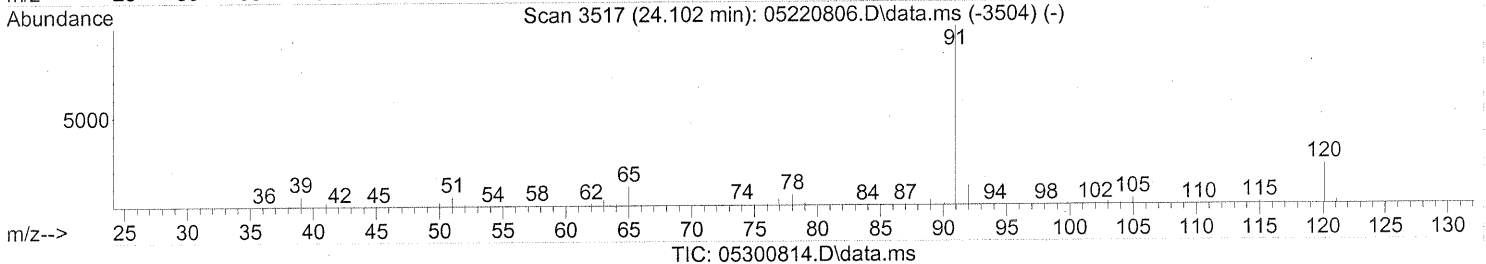
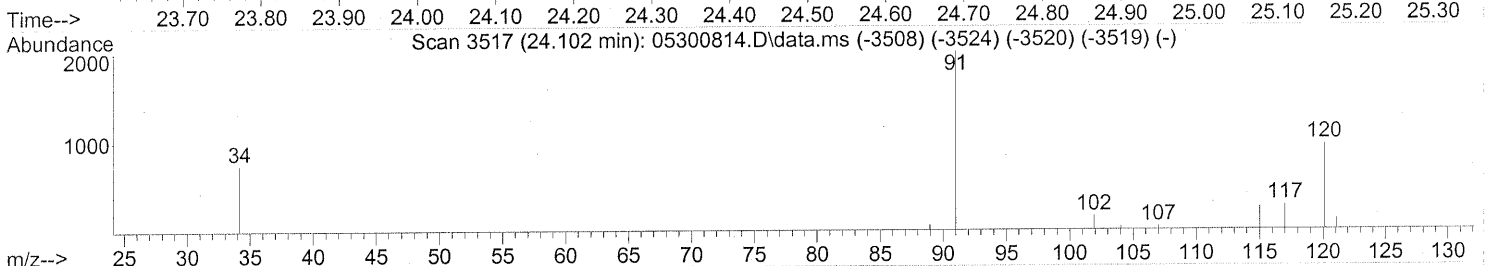
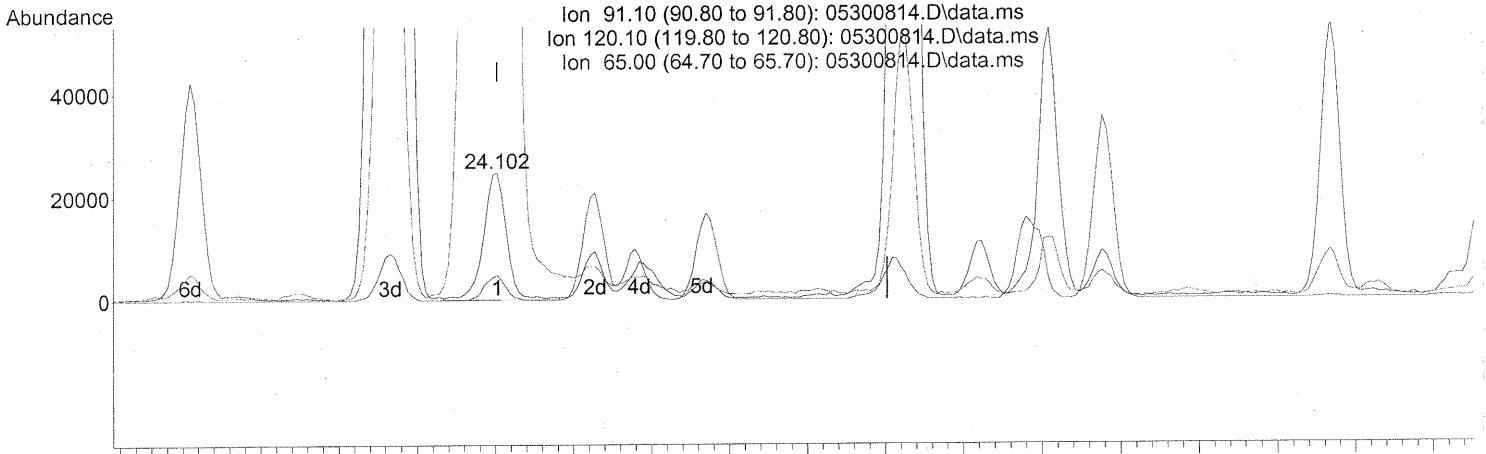
Ion	Exp%	Act%
91.10	100	100
120.10	23.40	17.97
65.00	11.40	6261.41#
0.00	0.00	0.00

BEFORE SUBTRACTION

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(76) n-Propylbenzene (T)

24.102min (+0.000) 0.44ng

response 50598

Ion	Exp%	Act%
91.10	100	100
120.10	23.40	17.97
65.00	11.40	6261.41#
0.00	0.00	0.00

AFTER SUBTRACTION

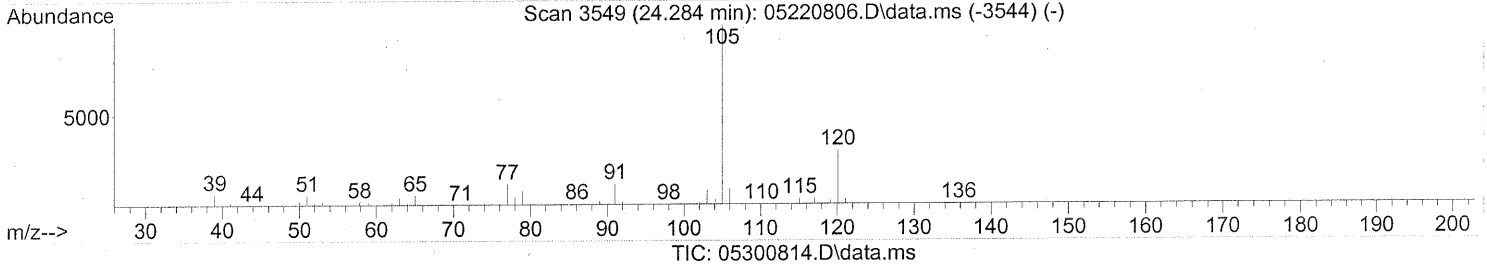
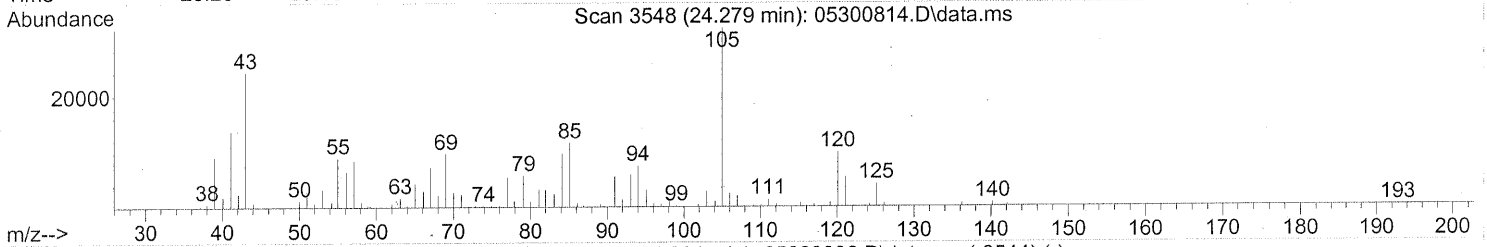
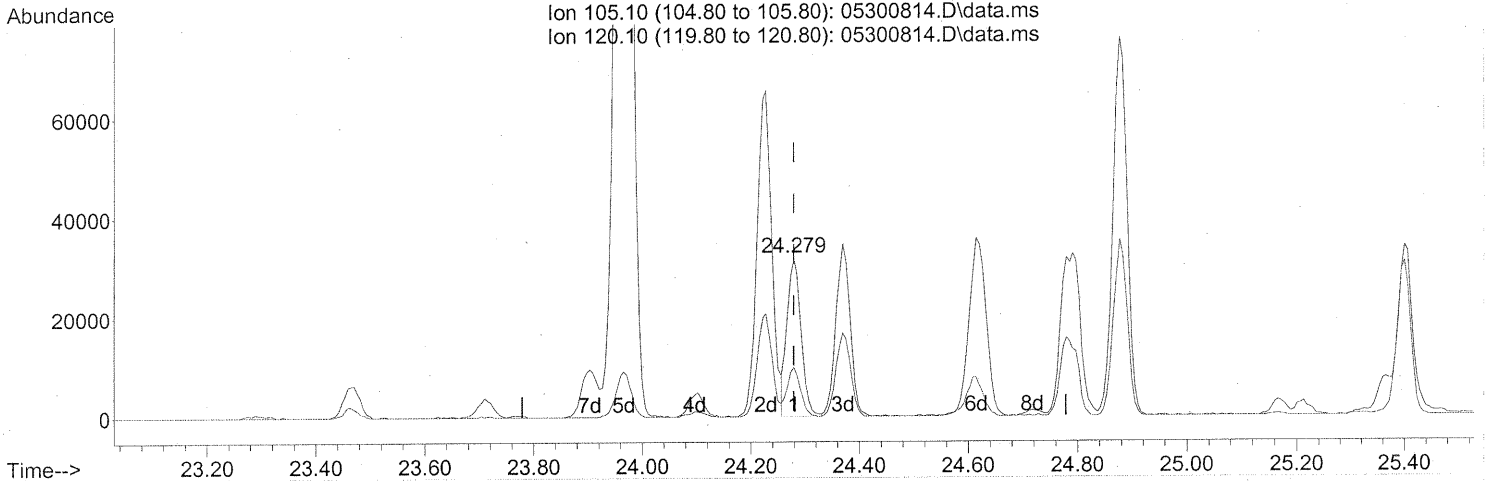
Fac/05/08

6/9/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



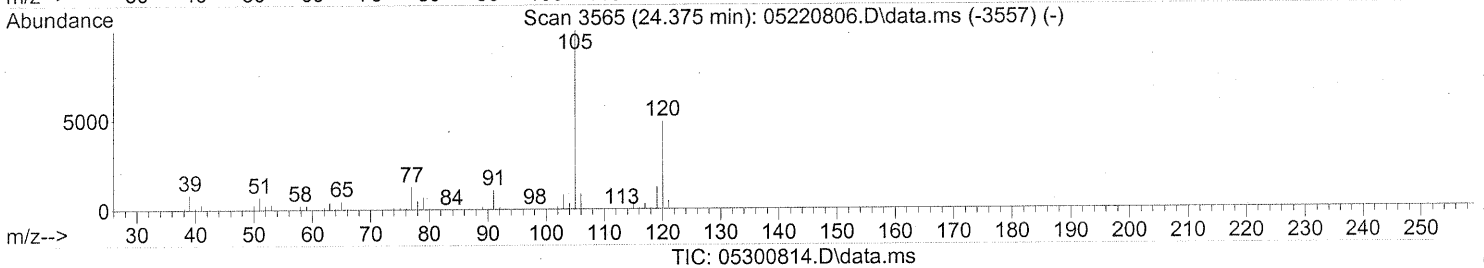
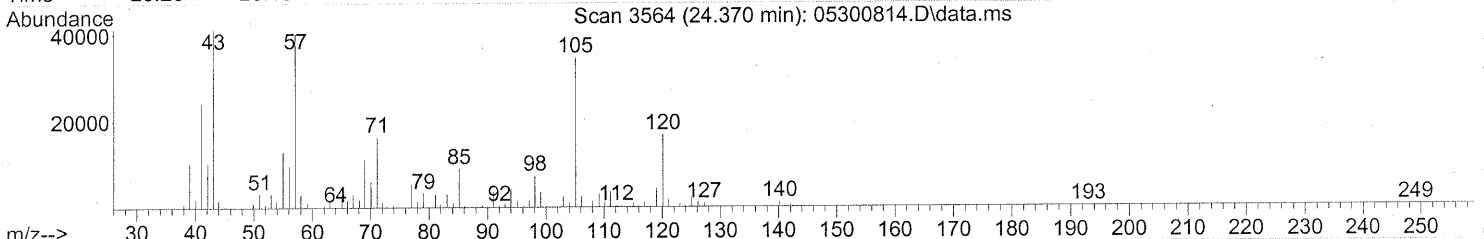
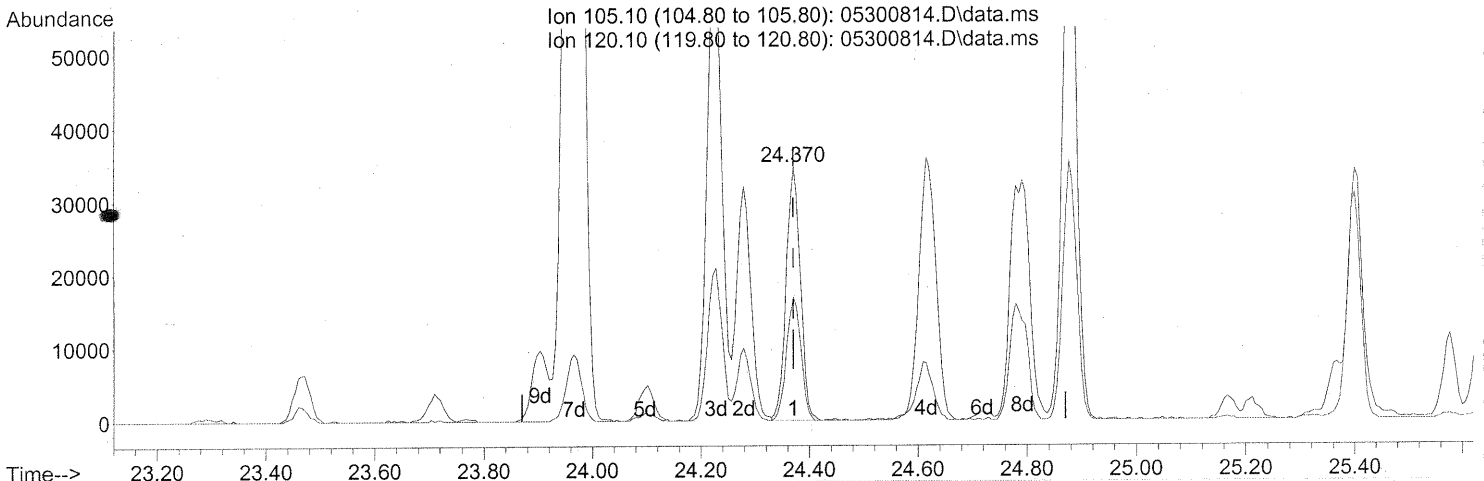
(78) 4-Ethyltoluene (T)  
 24.279min (+0.000) 0.64ng  
 response 57071

Ion	Exp%	Act%
105.10	100	100
120.10	30.40	29.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.370min (+0.000) 0.78ng

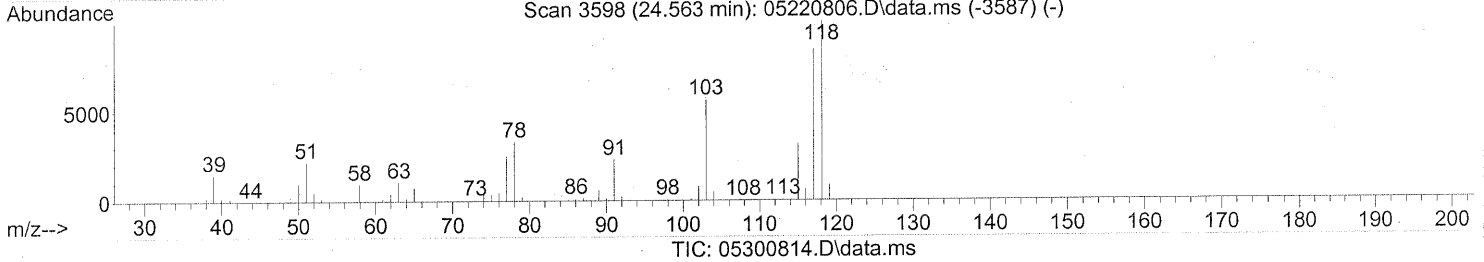
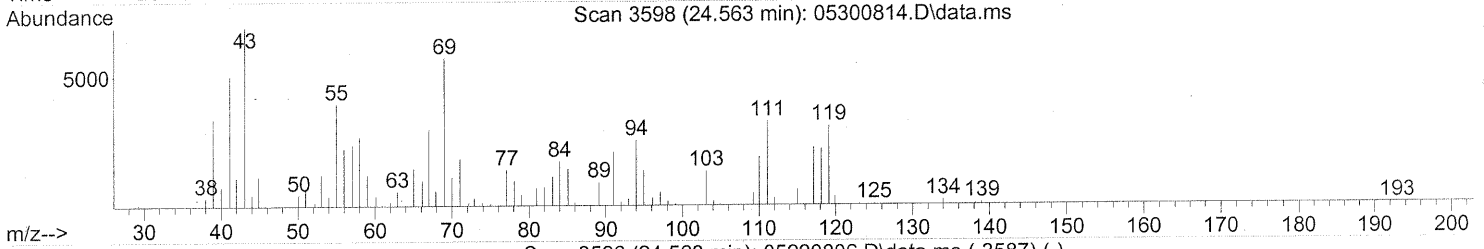
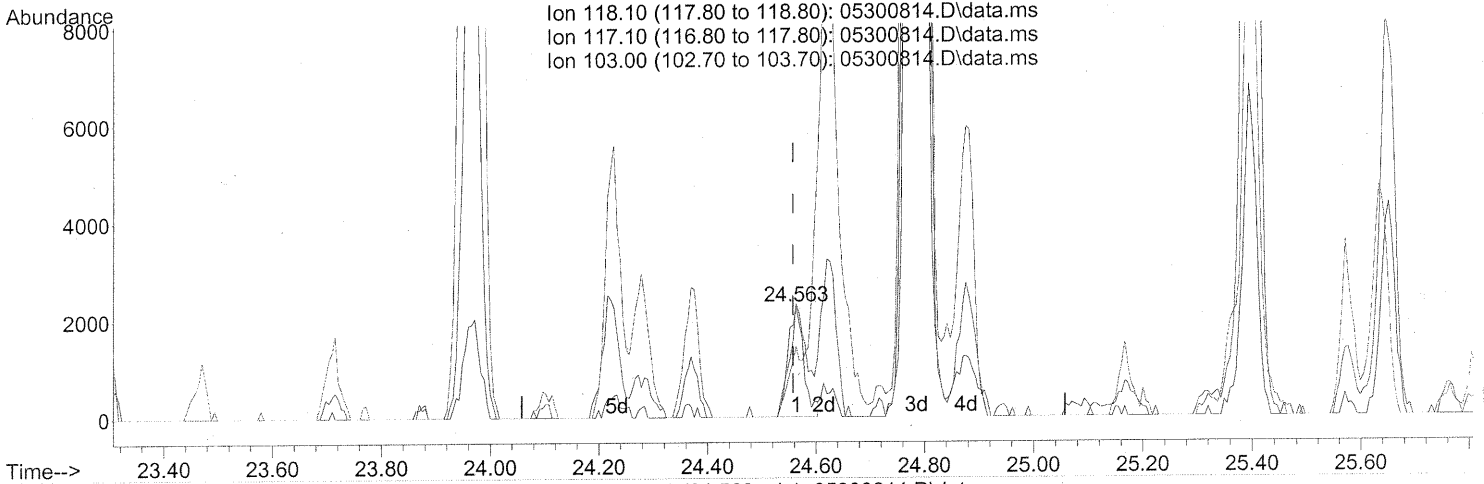
response 62865

Ion	Exp%	Act%
105.10	100	100
120.10	49.40	49.51
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4583

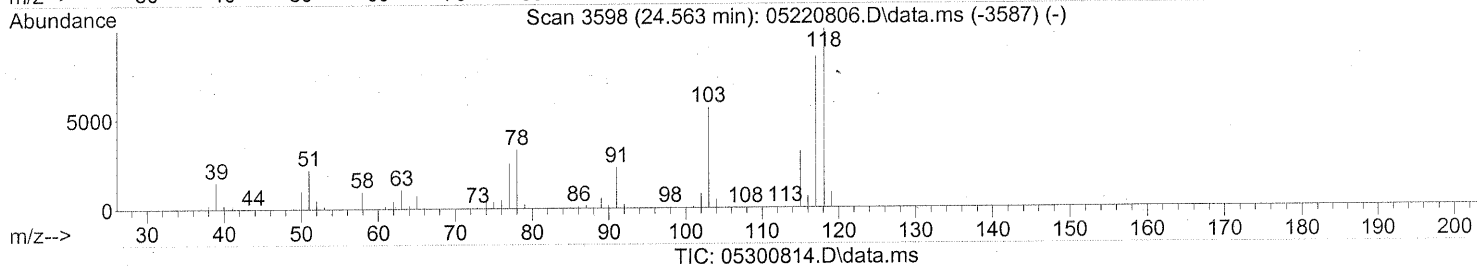
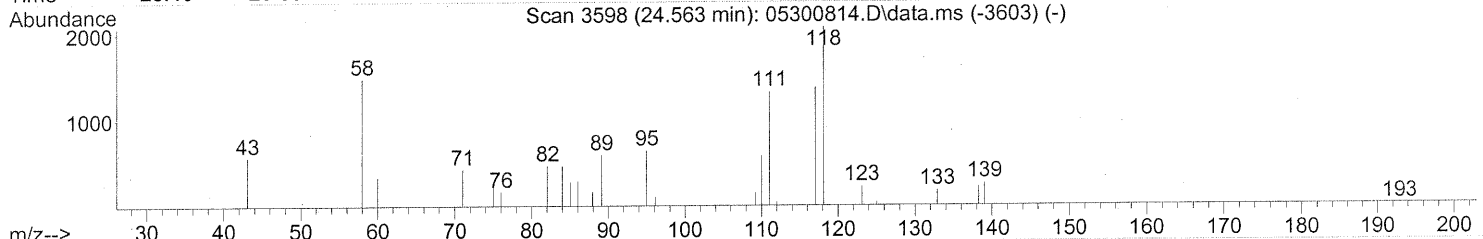
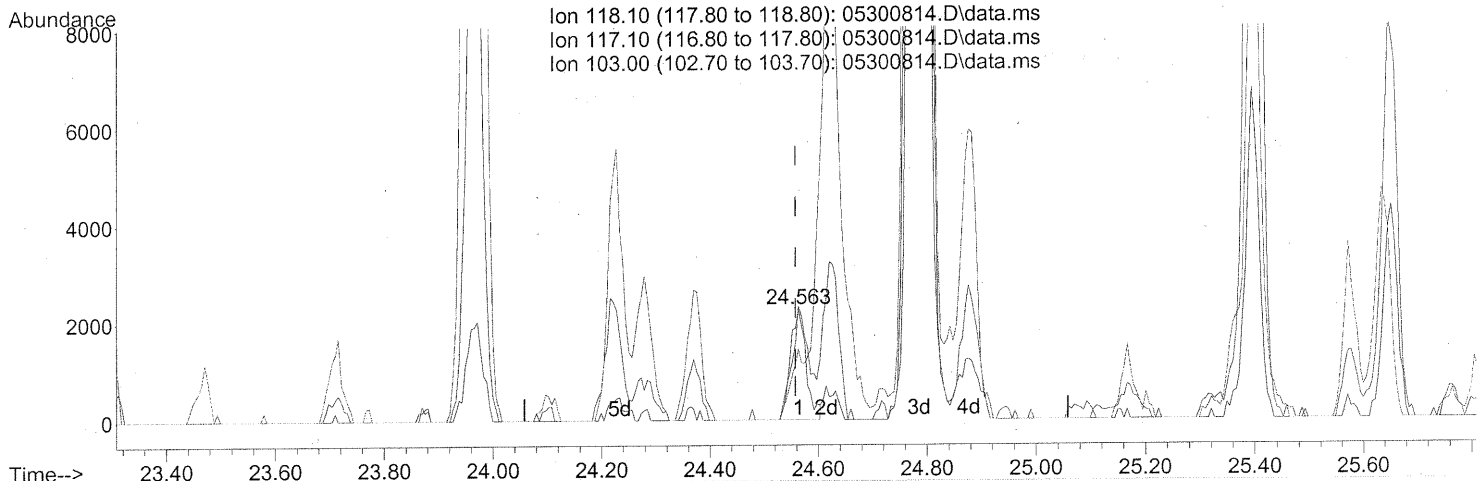
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	111.70#
103.00	55.30	52.89
0.00	0.00	0.00

**BEFORE SUBTRACTION**

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(80) alpha-Methylstyrene (T)

24.563min (+0.006) 0.10ng

response 4583

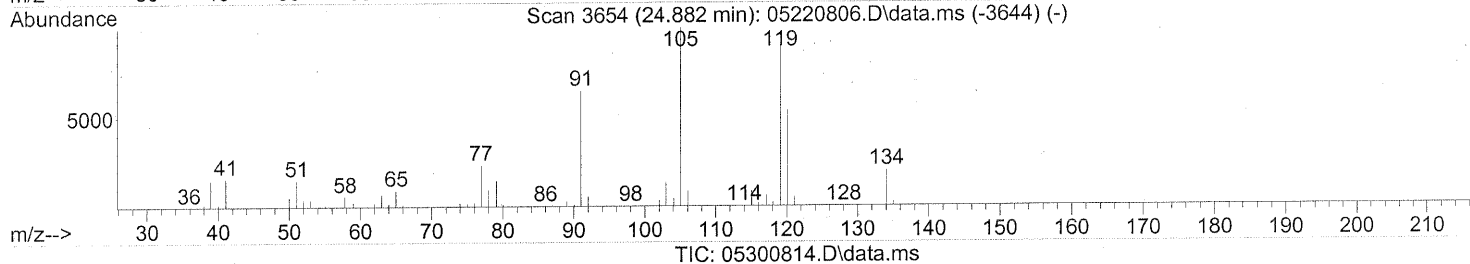
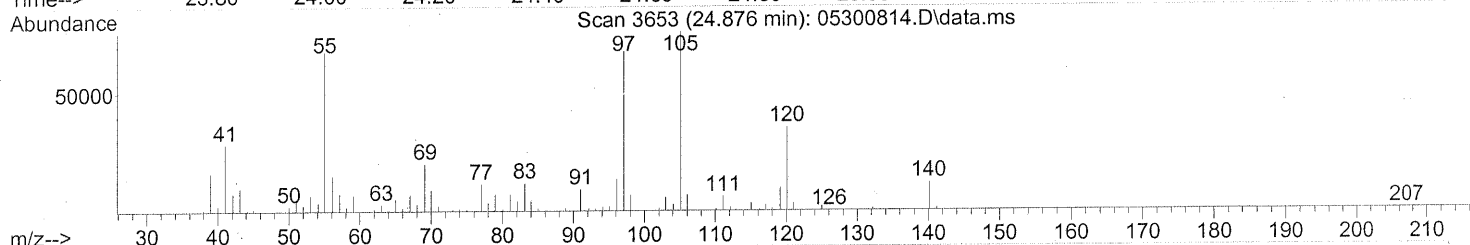
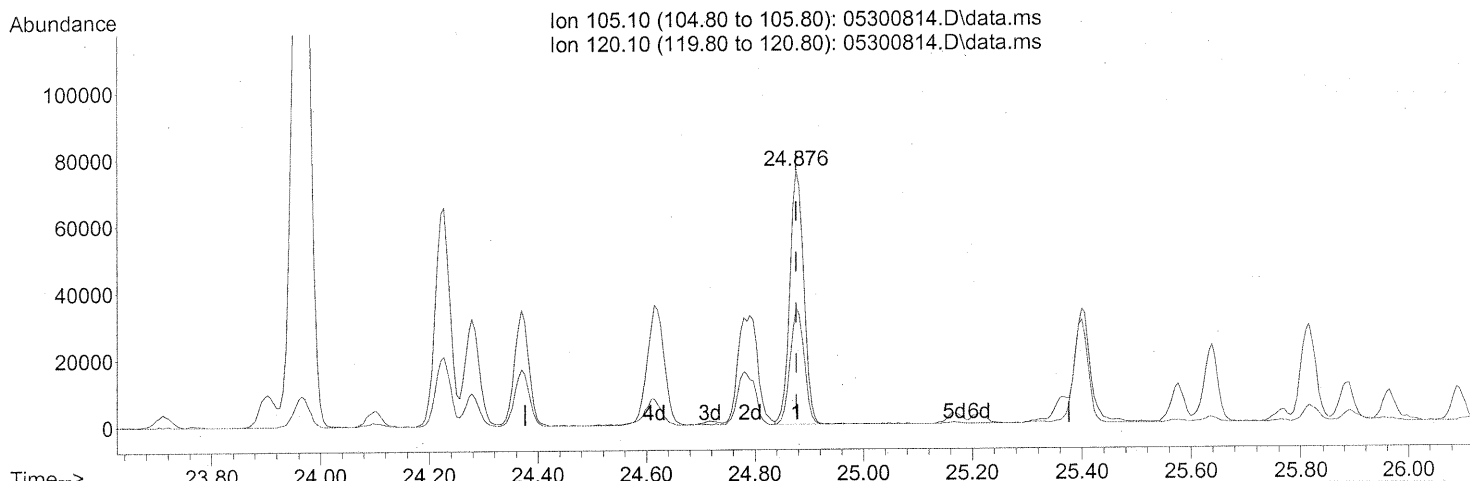
Ion	Exp%	Act%
118.10	100	100
117.10	84.10	111.70#
103.00	55.30	52.89
0.00	0.00	0.00

AFTER SUBTRACTION  
 5/26/08  
 6/19/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



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

24.876min (+0.000) 1.65ng

response 136112

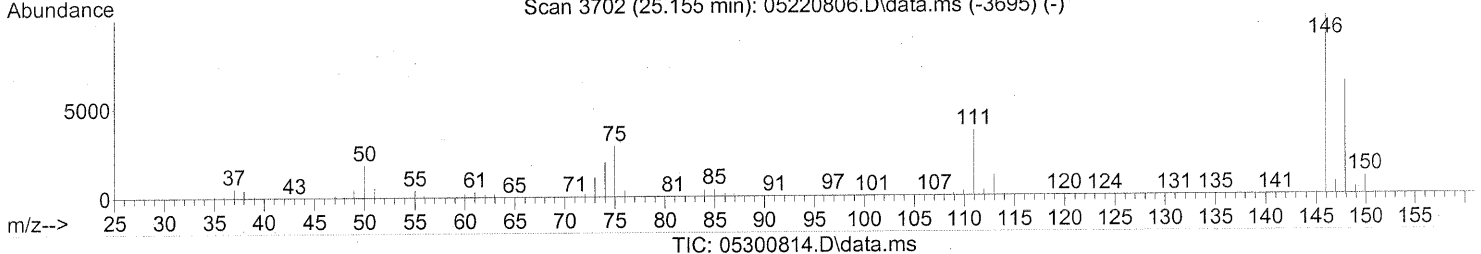
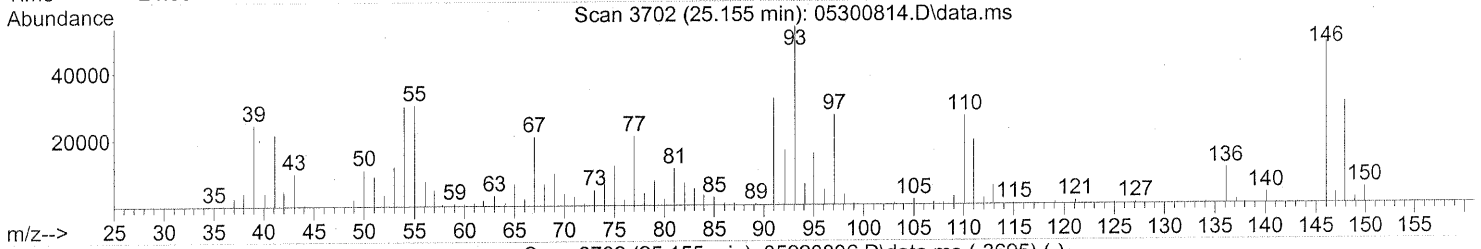
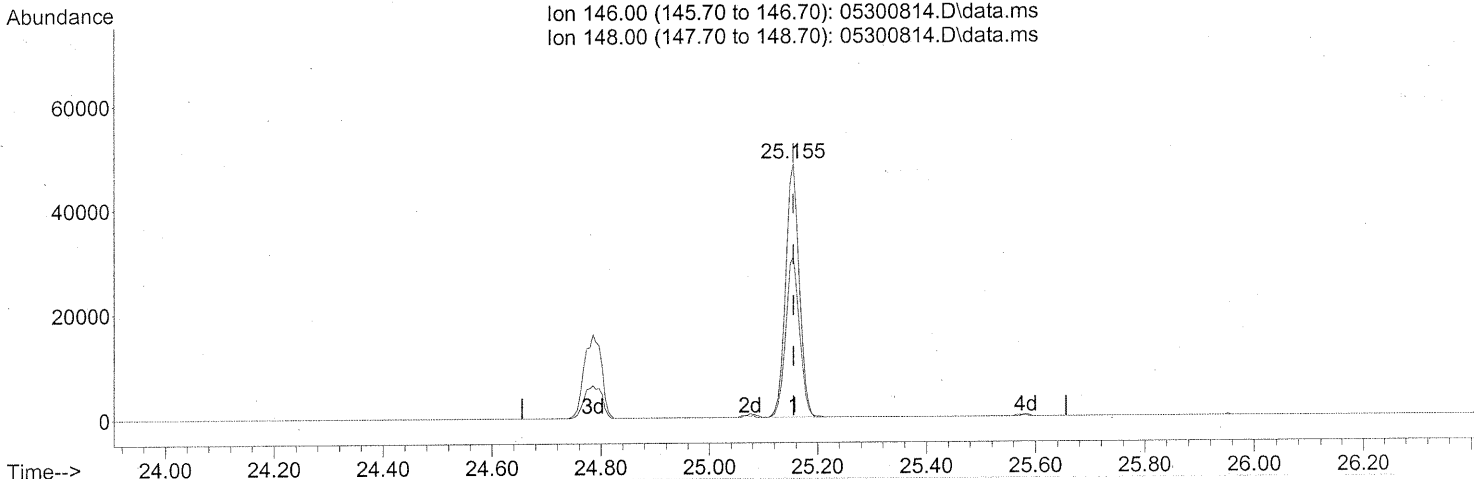
Ion	Exp%	Act%
105.10	100	100
120.10	54.40	45.87
0.00	0.00	0.00
0.00	0.00	0.00



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(86) 1,4-Dichlorobenzene (T)

25.155min (+0.000) 1.71ng

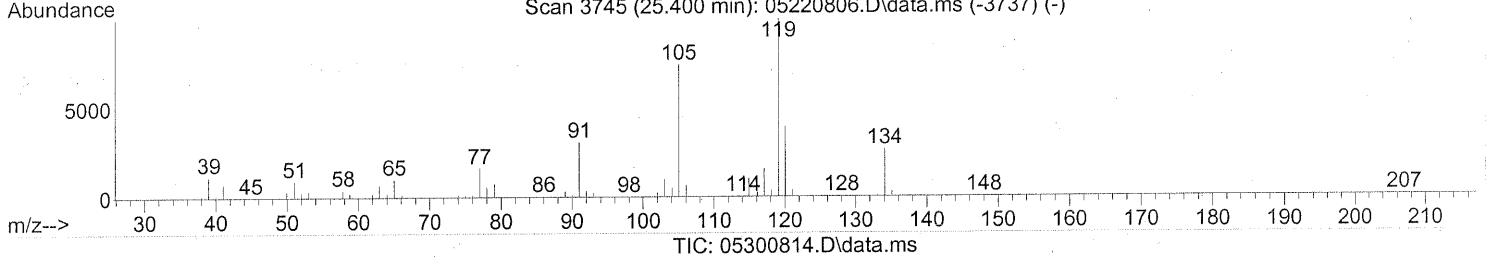
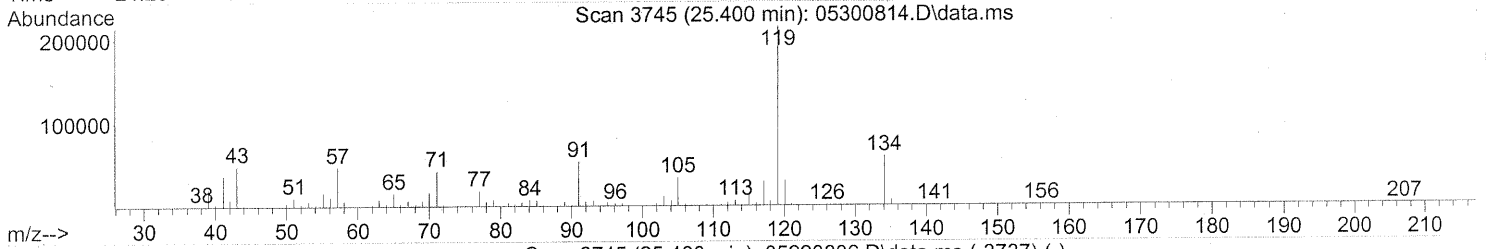
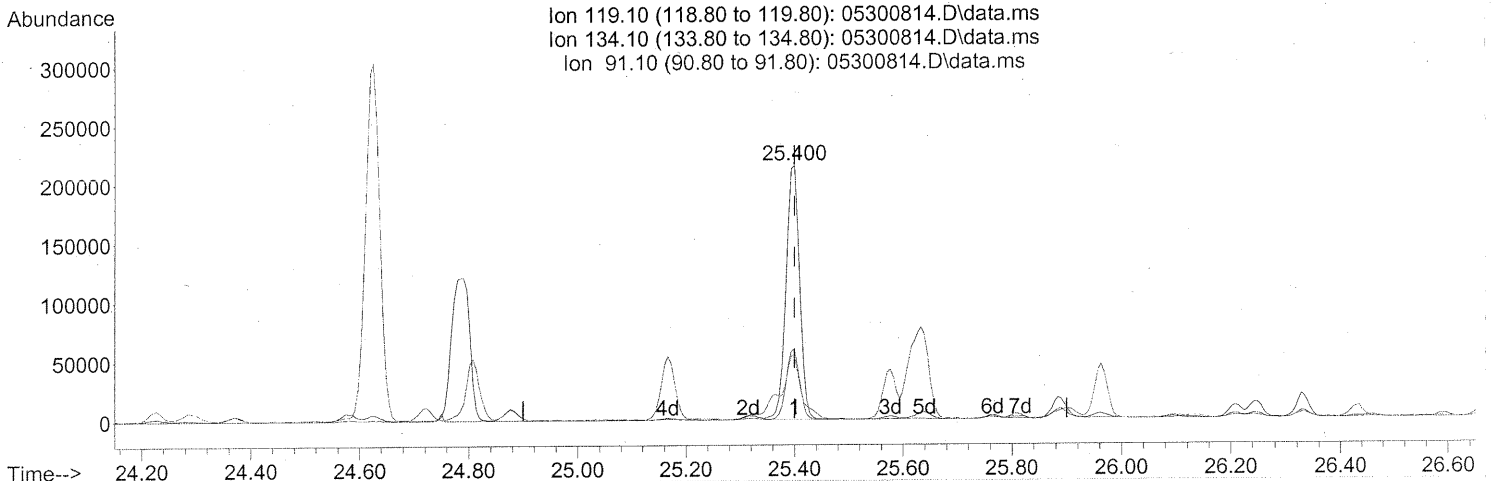
response 85386

Ion	Exp%	Act%
146.00	100	100
148.00	64.20	64.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(88) p-Isopropyltoluene (T)

25.400min (+0.000) 4.30ng

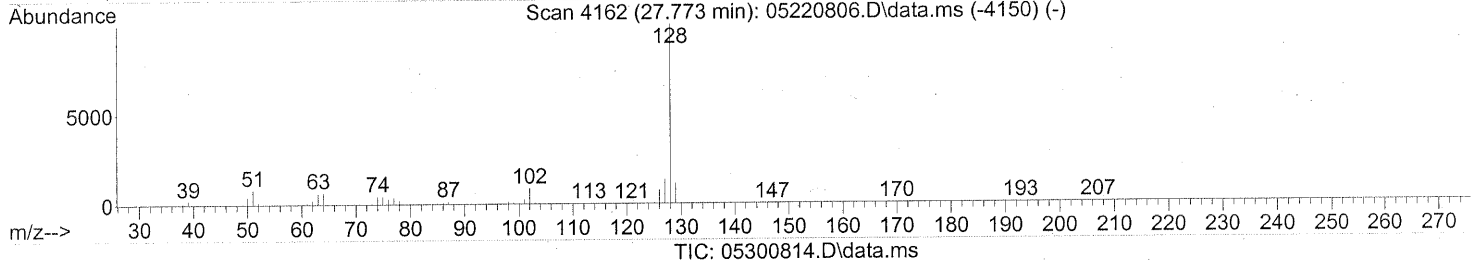
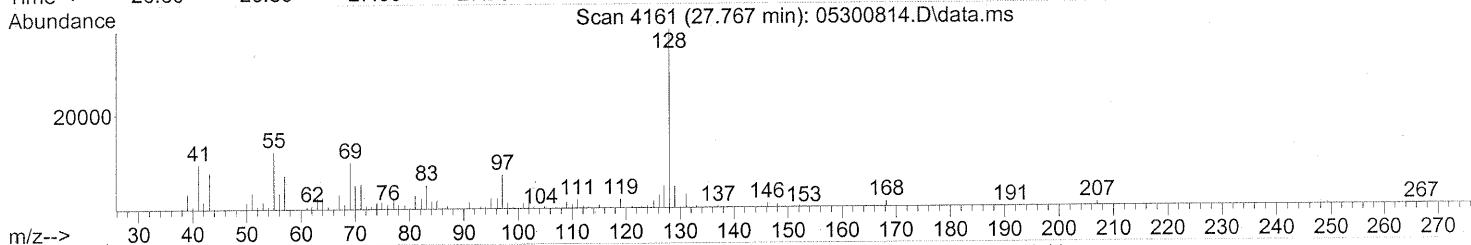
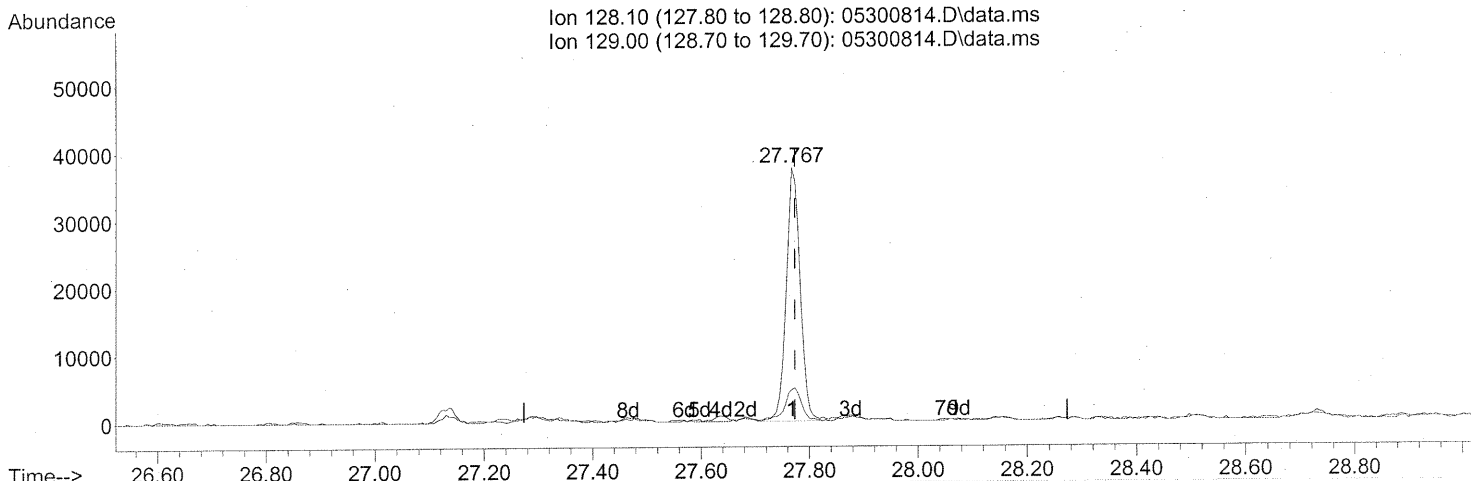
response 373642

Ion	Exp%	Act%
119.10	100	100
134.10	27.20	27.31
91.10	27.10	39.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(95) Naphthalene (T)

27.767min (-0.006) 0.62ng

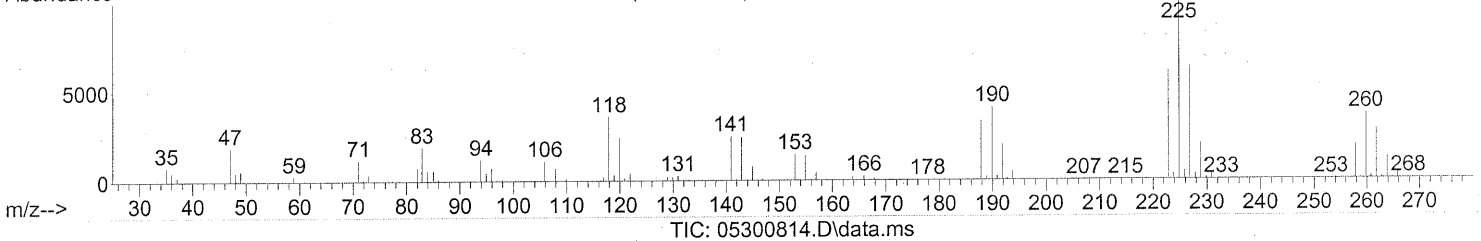
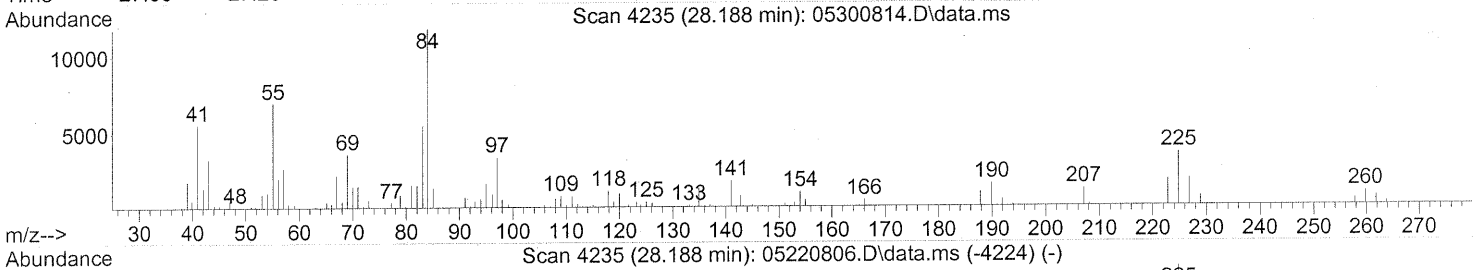
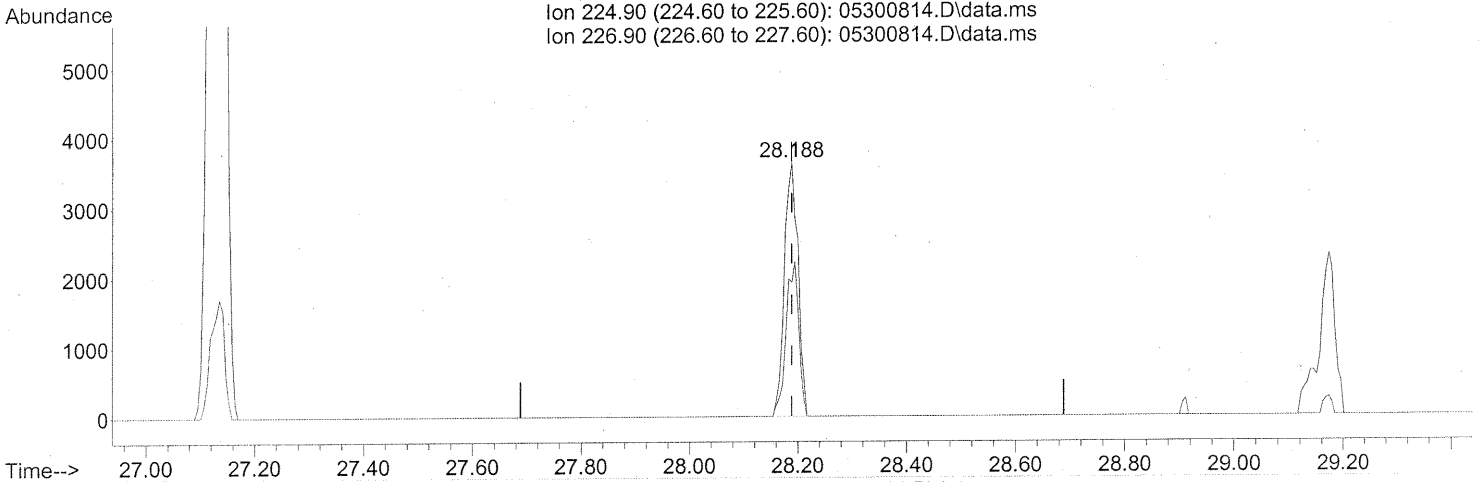
response 67693

Ion	Exp%	Act%
128.10	100	100
129.00	11.60	15.96
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300814.D  
Acq On : 30 May 2008 6:24 pm  
Operator : WA  
Sample : P0801548-004 Dup (1000ml)  
Misc : ENSR SG68B-05 (-2.9,3.5)  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 05 10:46:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(97) Hexachloro-1,3-butadiene (T)

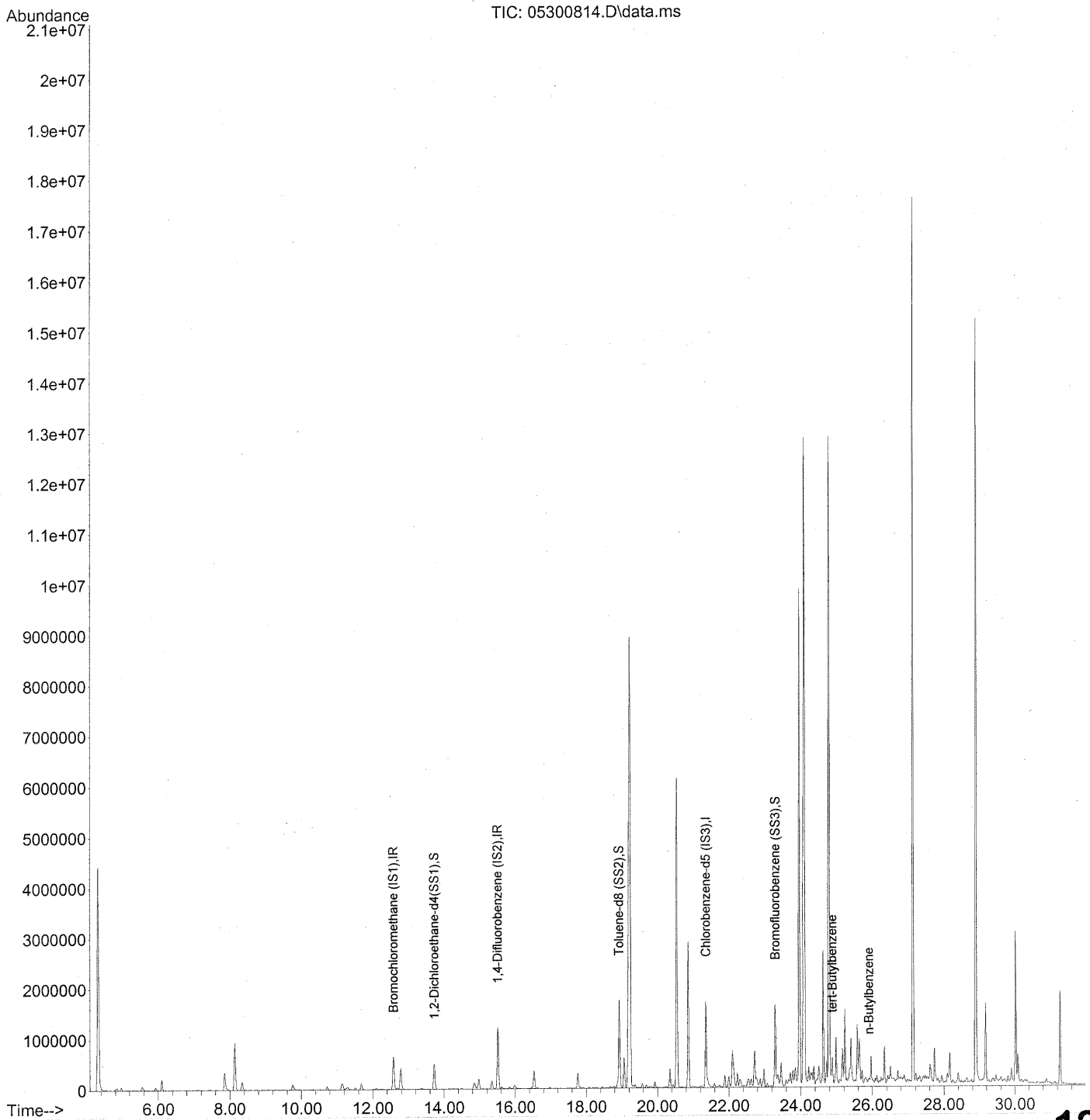
28.188min (+0.000) 0.27ng

response 6354

Ion	Exp%	Act%
224.90	100	100
226.90	62.80	56.72
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5) ✓  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:38 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:38 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

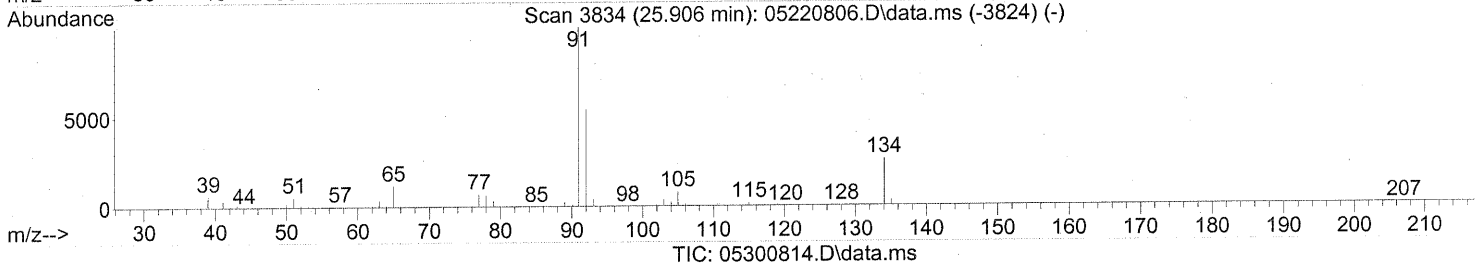
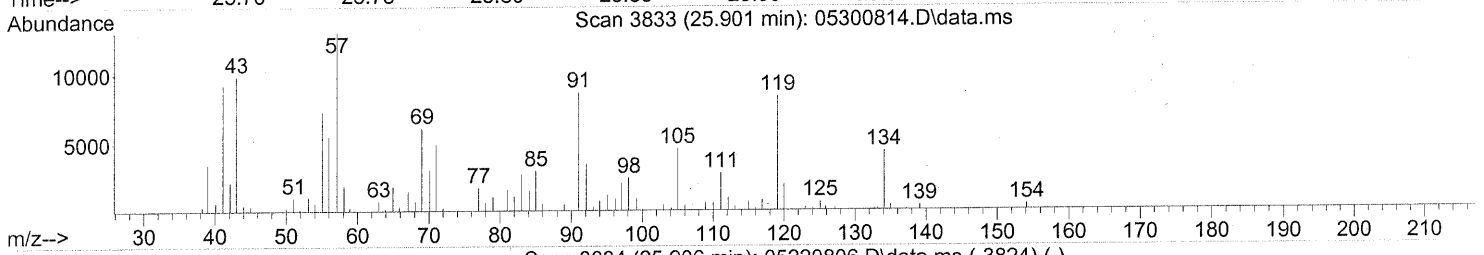
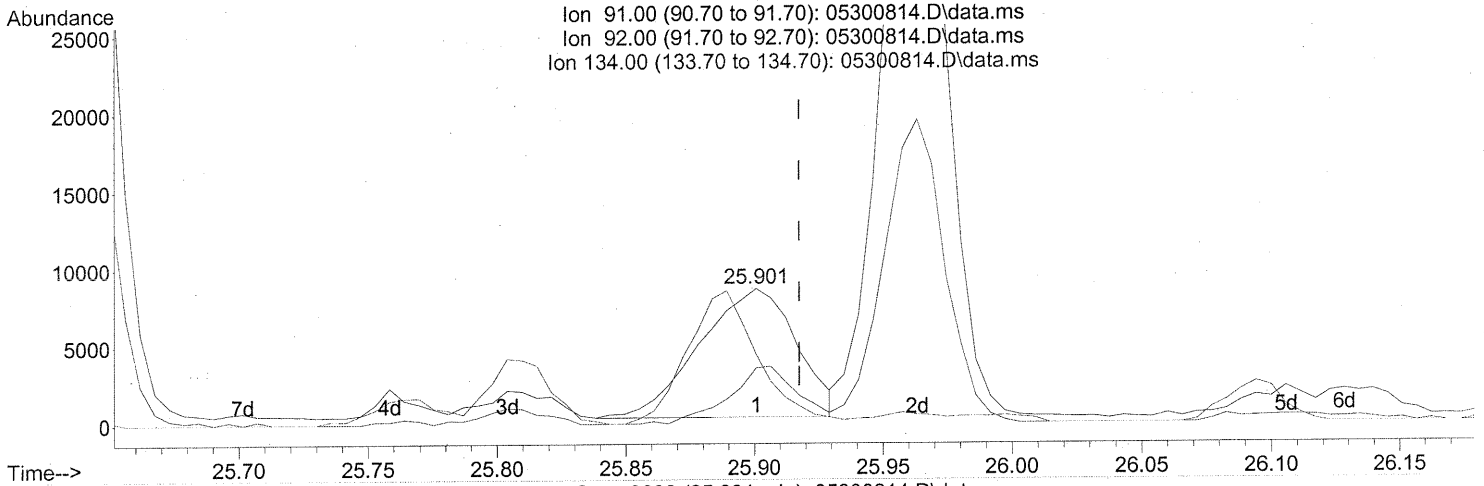
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	340611	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1434647	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	671706	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	529392	22.431	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.72%	✓
5) Toluene-d8 (SS2)	18.92	98	1485703	24.628	ng	-0.02
Spiked Amount	25.000		Recovery	=	98.52%	✓
6) Bromofluorobenzene (SS3)	23.29	174	626067	25.521	ng	0.00
Spiked Amount	25.000		Recovery	=	102.08%	✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	17924	<del>0.227</del> ng	IR #	54
8) n-Butylbenzene	25.90	91	21543	0.247 ng	#	48

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

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300814.D  
 Acq On : 30 May 2008 6:24 pm  
 Operator : WA  
 Sample : P0801548-004 Dup (1000ml)  
 Misc : ENSR SG68B-05 (-2.9,3.5)  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 08 17:22:38 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



(8) n-Butylbenzene

25.901min (-0.017) 0.25ng

response 21543

Ion	Exp%	Act%
91.00	100	100
92.00	55.70	31.37#
134.00	28.80	75.89#
0.00	0.00	0.00

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

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

Lab File ID: 05300803.D  
 Date Analyzed: 5/30/08  
 Time Analyzed: 08:12

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	309690	12.58	1316751	15.51	608553	21.35
<b>Upper Limit</b>	433566	12.91	1843451	15.84	851974	21.68
<b>Lower Limit</b>	185814	12.25	790051	15.18	365132	21.02

**Client Sample ID**

Client Sample ID	IS1 (BCM) AREA #	IS1 (BCM) RT #	IS2 (DFB) AREA #	IS2 (DFB) RT #	IS3 (CBZ) AREA #	IS3 (CBZ) RT #
01 Method Blank	298567	12.57	1267924	15.51	581218	21.35
02 Lab Control Sample	305755	12.59	1292603	15.52	609812	21.35
03 SG91B-05 (Dilution)	317861	12.57	1360977	15.51	617036	21.35
04 SG69B-05 (Dilution)	305619	12.57	1299488	15.51	599302	21.35
05 SG69B-05	290674	12.58	1228713	15.51	577037	21.35
06 SG46B-05	287830	12.58	1253641	15.51	599055	21.35
07 SG68B-05	316100	12.58	1368107	15.51	638908	21.35
08 SG68B-05 (Lab Duplicate)	340611	12.58	1434647	15.51	671706	21.35
09 SG91B-05	319590	12.58	1379444	15.51	638600	21.35
10 SG93B-05	326975	12.58	1382503	15.51	645366	21.35
11 SG93B-05 (Dilution)	321471	12.57	1364925	15.51	627074	21.35
12 SG46B-05 (Dilution)	313254	12.58	1330210	15.51	616027	21.35
13 SG67B-05	319747	12.58	1364863	15.51	649247	21.35
14 SG67B-05 (Dilution)	374640	12.58	1577147	15.51	709766	21.35
15 SG51B-05	376350	12.60	1497616	15.52	693630	21.35
16 SG51B-05D	364581	12.59	1495095	15.51	670683	21.35
17 SG42B-05	347882	12.58	1464807	15.51	674312	21.35
18 SG48B-05	354460	12.58	1487537	15.51	691971	21.35
19 SG47B-05	349563	12.58	1475986	15.52	672064	21.35
20 SG47B-05 (Dilution)	369040	12.58	1560529	15.51	710901	21.35

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area

AREA LOWER LIMIT = 60% of internal standard area

RT UPPER LIMIT = 0.33 minutes of internal standard RT

RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

Verified By: CA Date: 6/10/08



**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister(s)  
 Test Notes:

Lab File ID: 06020801.D  
 Date Analyzed: 6/2/08  
 Time Analyzed: 08:49

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
<b>24 Hour Standard</b>	349762	12.58	1484429	15.51	687424	21.35
<b>Upper Limit</b>	489667	12.91	2078201	15.84	962394	21.68
<b>Lower Limit</b>	209857	12.25	890657	15.18	412454	21.02

**Client Sample ID**

Client Sample ID	IS1 (BCM) AREA #	IS1 (BCM) RT #	IS2 (DFB) AREA #	IS2 (DFB) RT #	IS3 (CBZ) AREA #	IS3 (CBZ) RT #
01 Method Blank	341020	12.58	1428446	15.51	664916	21.35
02 Lab Control Sample	341818	12.59	1474398	15.52	669226	21.35
03 SG53B-05 (Dilution)	355279	12.57	1548339	15.51	709750	21.35
04 SG54B-05	361649	12.58	1563505	15.51	721320	21.35
05 SG51B-05D (Dilution)	364982	12.58	1569312	15.51	722078	21.35
06 SG54B-05 (Dilution)	348430	12.57	1504472	15.51	703495	21.35
07 SG53B-05	344464	12.58	1500022	15.51	705477	21.35
08 SG53B-05D	355603	12.58	1517332	15.51	719424	21.35
09 SG66B-05	362866	12.58	1563667	15.51	737826	21.35
10 SG53B-05D (Dilution)	372723	12.58	1610601	15.51	748261	21.35
11 SG66B-05 (Dilution)	353358	12.58	1537040	15.51	724867	21.35
12 SG51B-05 (Dilution)	353340	12.58	1529179	15.51	717129	21.35
13						
14						
15						
16						
17						
18						
19						
20						

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area  
 AREA LOWER LIMIT = 60% of internal standard area  
 RT UPPER LIMIT = 0.33 minutes of internal standard RT  
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

Verified By:     CJ     Date: 6/2/08 **1265**

**COLUMBIA ANALYTICAL SERVICES, INC.**

RESULTS OF ANALYSIS

Page 1 of 1

**Client:** ENSR  
**Client Project ID:** Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801548

**Internal Standard Area and RT Summary**

Test Code: EPA TO-15  
 Instrument ID: Tekmar AUTOCAN/Agilent 5975Binert/6890N/MS13  
 Analyst: Rusty Bravo  
 Sampling Media: 6.0 L Summa Canister(s)  
 Test Notes:

Lab File ID: 06030801.D  
 Date Analyzed: 6/3/08  
 Time Analyzed: 08:26

	IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)							
	AREA	#	RT	#	AREA	#	RT	#				
<b>24 Hour Standard</b>	327394		12.58		1420024		15.51		673142		21.35	
<b>Upper Limit</b>	458352		12.91		1988034		15.84		942399		21.68	
<b>Lower Limit</b>	196436		12.25		852014		15.18		403885		21.02	

**Client Sample ID**

Client Sample ID	IS1 (BCM) AREA	IS1 (BCM) #	IS1 (BCM) RT	IS1 (BCM) #	IS2 (DFB) AREA	IS2 (DFB) #	IS2 (DFB) RT	IS2 (DFB) #	IS3 (CBZ) AREA	IS3 (CBZ) #	IS3 (CBZ) RT	IS3 (CBZ) #
01 Method Blank	309051		12.58		1343195		15.51		634768		21.35	
02 Lab Control Sample	314715		12.59		1359071		15.51		652554		21.35	
03 SG49B-05	322556		12.57		1372542		15.51		672270		21.35	
04 SG50B-05	339626		12.58		1435581		15.51		687240		21.35	
05 SG45B-05	330687		12.58		1449298		15.51		693269		21.35	
06 SG87B-05	331666		12.58		1461583		15.51		696423		21.35	
07												
08												
09												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												

IS1 (BCM) = Bromochloromethane  
 IS2 (DFB) = 1,4-Difluorobenzene  
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = 140% of internal standard area  
 AREA LOWER LIMIT = 60% of internal standard area  
 RT UPPER LIMIT = 0.33 minutes of internal standard RT  
 RT LOWER LIMIT = 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

Verified By: CA Date: 6/10/08 **1266**

## INITIAL CALIBRATION STANDARDS

Method Path : J:\MS13\METHODS\  
 Method File : R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:20:46 2008  
 Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D  
 25 =05220806.D 50 =05220807.D 100 =05220808.D

Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1) IR Bromochloromethane (I				ISTD					
2) Propene	2.996	2.142	1.885	1.694	1.693	1.735	1.676	1.974	24.32
3) Dichlorodifluoromet	4.403	4.247	3.956	3.401	3.313	3.156	2.998	3.639	15.31
4) Chloromethane	2.957	3.067	2.796	2.018	2.332	2.045	1.281	2.357	26.99
5) Freon 114	2.153	2.139	1.885	1.633	1.610	1.556	1.557	1.790	14.92
6) Vinyl Chloride	2.718	2.689	2.542	2.163	2.207	2.119	2.068	2.358	11.93
7) 1,3-Butadiene	1.659	1.954	1.730	1.666	1.787	1.769	1.713	1.754	5.72
8) Bromomethane	1.626	1.472	1.337	1.161	1.224	1.203	1.169	1.313	13.46
9) Chloroethane	1.226	1.327	1.162	1.041	1.050	1.032	1.003	1.120	10.85
10) Ethanol	1.635	1.517	1.362	1.140	1.191	1.186	1.170	1.314	14.85
11) Acetonitrile	6.122	4.022	3.645	3.315	3.213	3.203	3.086	3.801	28.24
12) Acrolein	0.968	1.081	0.964	0.844	0.914	0.909	0.893	0.939	8.07
13) Acetone	1.963	1.497	1.180	1.172	1.172	1.146	1.118	1.346	24.71
14) Trichlorofluorometh	3.673	3.687	3.177	2.901	2.908	2.808	2.702	3.122	13.04
15) Isopropanol	5.776	5.067	4.561	3.546	4.053	3.658	3.384	4.292	20.66
16) Acrylonitrile	1.923	2.234	2.145	1.930	2.079	2.050	1.983	2.049	5.60
17) 1,1-Dichloroethene	1.512	1.582	1.406	1.279	1.305	1.283	1.247	1.373	9.48
18) tert-Butanol	4.223	4.305	3.973	3.489	3.769	3.668	2.128	3.651	20.07
19) Methylene Chloride	1.910	1.686	1.599	1.344	1.368	1.329	1.293	1.504	15.50
20) Allyl Chloride	1.466	1.992	1.865	1.947	2.252	2.275	2.251	2.007	14.50
21) Trichlorotrifluoroe	1.781	1.592	1.471	1.292	1.301	1.276	1.227	1.420	14.40
22) Carbon Disulfide	7.391	6.305	5.692	5.153	5.306	5.151	4.955	5.707	15.23
23) trans-1,2-Dichloroe	2.502	2.491	2.233	2.074	2.138	2.086	2.050	2.225	8.75
24) 1,1-Dichloroethane	2.778	3.083	2.737	2.443	2.471	2.415	2.342	2.610	10.19
25) Methyl tert-Butyl E	4.983	4.864	4.518	4.093	4.135	4.014	3.857	4.352	10.10
26) Vinyl Acetate			0.163	0.208	0.285	0.290	0.298	0.249	24.15
27) 2-Butanone	1.137	1.125	0.977	0.900	0.951	0.923	0.862	0.982	11.00
28) cis-1,2-Dichloroeth	2.376	2.444	2.222	1.960	2.018	1.960	1.904	2.126	10.33
29) Diisopropyl Ether	1.432	1.325	1.184	1.109	1.151	1.136	1.089	1.204	10.55
30) Ethyl Acetate	0.496	0.589	0.542	0.495	0.531	0.538	0.521	0.530	6.03
31) n-Hexane	3.007	2.923	2.684	2.497	2.603	2.562	2.454	2.676	7.93

7/05/22/08

Method Path : J:\MS13\METHODS\  
 Method File : R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:20:46 2008  
 Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D  
 25 =05220806.D 50 =05220807.D 100 =05220808.D

Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
32) T Chloroform	2.691	2.730	2.328	2.094	2.109	2.037	1.968	2.280	13.80
33) S 1,2-Dichloroethane	1.794	1.789	1.787	1.711	1.716	1.686	1.643	1.732	3.40
34) T Tetrahydrofuran	1.021	1.099	0.975	0.873	0.917	0.866	0.821	0.939	10.44
35) T Ethyl tert-Butyl Et	1.797	1.942	1.697	1.574	1.637	1.594	1.558	1.686	8.30
36) T 1,2-Dichloroethane	2.524	2.601	2.310	2.054	2.082	1.969	1.877	2.202	12.72
-----ISTD-----									
37) IR 1,4-Difluorobenzene (	0.651	0.628	0.604	0.535	0.535	0.522	0.511	0.569	9.96
38) T 1,1,1-Trichloroetha	0.187	0.233	0.196	0.205	0.227	0.225	0.221	0.214	8.22
39) T Isopropyl Acetate	0.277	0.375	0.316	0.325	0.370	0.375	0.367	0.344	11.13
40) T 1-Butanol	1.560	1.436	1.299	1.209	1.254	1.224	1.181	1.309	10.62
41) T Benzene	0.497	0.547	0.505	0.483	0.507	0.498	0.491	0.504	4.12
42) T Carbon Tetrachlorid	0.567	0.593	0.522	0.468	0.478	0.468	0.468	0.509	10.32
43) T Cyclohexane	1.002	1.053	0.908	0.885	0.923	0.910	0.891	0.939	6.77
44) T tert-Amyl Methyl Et	0.363	0.416	0.357	0.321	0.336	0.330	0.329	0.350	9.41
45) T 1,2-Dichloropropane	0.439	0.509	0.447	0.421	0.433	0.428	0.420	0.442	7.00
46) T Bromodichloromethan	0.530	0.487	0.406	0.352	0.352	0.341	0.344	0.402	19.24
47) T Trichloroethene	0.276	0.274	0.245	0.229	0.237	0.234	0.233	0.247	8.06
48) T 1,4-Dioxane	1.679	1.676	1.522	1.389	1.455	1.415	1.368	1.501	8.71
49) T Isooctane	0.122	0.144	0.120	0.125	0.137	0.134	0.133	0.131	6.68
50) T Methyl Methacrylate	0.343	0.392	0.351	0.330	0.347	0.337	0.335	0.348	5.94
51) T n-Heptane	0.487	0.576	0.503	0.497	0.534	0.527	0.518	0.520	5.69
52) T cis-1,3-Dichloropro	0.341	0.373	0.338	0.330	0.354	0.350	0.346	0.348	3.98
53) T 4-Methyl-2-pentanone	0.405	0.443	0.423	0.435	0.483	0.480	0.474	0.449	6.78
54) T trans-1,3-Dichlorop	0.341	0.367	0.322	0.306	0.315	0.308	0.307	0.323	6.97
55) T 1,1,2-Trichloroetha	0.281	2.276	2.255	2.249	2.226	2.198	2.231	2.245	1.31
-----ISTD-----									
56) I Chlorobenzene-d5 (IS3	3.463	3.565	3.084	2.836	2.899	2.799	2.718	3.052	11.02
57) S Toluene-d8 (SS2)	1.912	2.227	2.158	2.079	2.193	2.120	2.032	2.103	5.10
58) T Toluene	0.768	0.914	0.816	0.790	0.839	0.817	0.826	0.824	5.59
59) T 2-Hexanone	0.797	0.908	0.827	0.763	0.777	0.757	0.764	0.799	6.75
60) T Dibromochloromethan									
61) T 1,2-Dibromoethane									

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Method Path : J:\MS13\METHODS\  
 Method File : R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:20:46 2008  
 Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D  
 25 =05220806.D 50 =05220807.D 100 =05220808.D

Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
62) T Butyl Acetate	1.835	2.349	2.145	2.075	2.250	2.180	2.107	2.135	7.54
63) T n-Octane	0.690	0.724	0.697	0.630	0.668	0.658	0.658	0.675	4.61
64) T Tetrachloroethene	1.085	1.019	0.880	0.821	0.845	0.823	0.850	0.903	11.64
65) T Chlorobenzene	2.246	2.309	2.117	1.922	1.949	1.899	1.880	2.046	8.66
66) T Ethylbenzene	3.745	3.906	3.547	3.348	3.482	3.344	3.125	3.500	7.51
67) T m- & p-Xylene	2.410	2.681	2.348	2.213	2.355	2.268	2.110	2.341	7.71
68) T Bromoform	0.579	0.613	0.562	0.598	0.655	0.639	0.648	0.613	5.82
69) T Styrene	2.121	2.195	2.060	2.004	2.140	2.085	2.043	2.092	3.08
70) T o-Xylene	2.664	2.842	2.526	2.396	2.503	2.421	2.337	2.527	6.91
71) T n-Nonane	1.672	2.020	1.792	1.739	1.842	1.775	1.720	1.794	6.32
72) T 1,1,2,2-Tetrachloro	0.868	1.052	1.008	1.065	1.132	1.118	1.129	1.053	8.89
73) S Bromofluorobenzene	0.879	0.895	0.904	0.922	0.931	0.923	0.937	0.913	2.31
74) T Cumene	3.579	3.802	3.406	3.191	3.337	3.227	3.014	3.365	7.78
75) T alpha-Pinene	1.711	1.882	1.729	1.649	1.760	1.737	1.710	1.740	4.10
76) T n-Propylbenzene	4.479	4.773	4.364	4.149	4.410	4.159	3.638	4.282	8.26
77) T 3-Ethyltoluene	3.439	4.011	3.499	3.424	3.723	3.619	3.356	3.582	6.34
78) T 4-Ethyltoluene	3.313	3.625	3.464	3.345	3.467	3.254	2.904	3.339	6.82
79) T 1,3,5-Trimethylbenz	3.271	3.262	2.995	2.895	3.052	2.926	2.715	3.017	6.64
80) T alpha-Methylstyrene	1.492	1.654	1.560	1.590	1.761	1.707	1.668	1.633	5.63
81) T 2-Ethyltoluene	3.480	3.971	3.697	3.585	3.795	3.604	3.275	3.630	6.15
82) T 1,2,4-Trimethylbenz	2.969	3.317	3.051	2.998	3.261	3.129	2.774	3.071	6.00
83) T n-Decane	1.469	1.883	1.664	1.676	1.805	1.722	1.610	1.690	7.92
84) T Benzyl Chloride	1.352	1.768	1.759	2.062	2.524	2.527	2.433	2.061	22.15
85) T 1,3-Dichlorobenzene	1.803	2.130	1.917	1.862	1.975	1.911	1.843	1.920	5.64
86) T 1,4-Dichlorobenzene	1.816	1.998	1.870	1.813	1.915	1.840	1.778	1.861	4.01
87) T sec-Butylbenzene	3.801	4.526	3.960	3.887	4.095	3.871	3.337	3.925	9.05
88) T p-Isopropyltoluene	2.977	3.482	3.289	3.207	3.536	3.341	2.786	3.231	8.33
89) T 1,2,3-Trimethylbenz	2.738	3.261	2.991	2.972	3.228	3.108	2.737	3.005	7.06
90) T 1,2-Dichlorobenzene	1.726	2.007	1.837	1.791	1.907	1.829	1.651	1.821	6.39
91) T d-Limonene	1.100	1.225	1.189	1.192	1.343	1.306	1.210	1.224	6.56
92) T 1,2-Dibromo-3-Chlor	0.385	0.514	0.509	0.578	0.658	0.651	0.661	0.565	18.20
93) T n-Undecane	1.496	1.930	1.742	1.747	1.891	1.846	1.727	1.768	8.14

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Method Path : J:\MS13\METHODS\  
Method File : R13052208.M  
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
Last Update : Thu May 22 11:20:46 2008  
Response Via : Initial Calibration

Calibration Files  
0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D  
25 =05220806.D 50 =05220807.D 100 =05220808.D

Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
94) T 1,2,4-Trichlorobenz	1.301	1.433	1.284	1.255	1.354	1.350	1.360	1.334	4.44
95) T Naphthalene	3.935	4.205	4.040	3.994	4.350	4.182	3.650	4.051	5.59
96) T n-Dodecane	1.445	1.924	1.703	1.694	1.896	1.875	1.775	1.759	9.45
97) T Hexachloro-1,3-buta	0.850	0.960	0.856	0.844	0.884	0.894	0.928	0.888	4.87

(#) = Out of Range

*05/22/08*

**1271**

**Primary Source Standards Concentrations  
(Working & Initial Calibration)**

4ng/L Std. ID: **S20-05210809**  
 20ng/L Std. ID: **S20-05210806**  
 200ng/L Std. ID: **S20-05210804**

Dilution Factors:		5	50	250	Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source)						
Compounds	Source Std.	Primary Working Standards			Injection (L):	4	20	20	20	200	200	200
	mg/m <sup>3</sup>	200ng/L	20ng/L	4ng/L	ICAL Points:	0.025	0.025	0.050	0.25	0.125	0.25	0.50
Propene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
Dichlorodifluoromethane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
Chloromethane	1.02	204	20.4	4.08		0.102	0.510	1.02	5.10	25.5	51.0	102
Freon-114	1.07	214	21.4	4.28		0.107	0.535	1.07	5.35	26.8	53.5	107
Vinyl Chloride	1.03	206	20.6	4.12		0.103	0.515	1.03	5.15	25.8	51.5	103
1,3-Butadiene	1.09	218	21.8	4.36		0.109	0.545	1.09	5.45	27.3	54.5	109
Bromomethane	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
Chloroethane	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
Ethanol	0.91	182	18.2	3.64		0.091	0.455	0.910	4.55	22.8	45.5	91.0
Acetonitrile	0.980	196	19.6	3.92		0.098	0.490	0.980	4.90	24.5	49.0	98.0
Acrolein	0.960	192	19.2	3.84		0.096	0.480	0.960	4.80	24.0	48.0	96.0
Acetone	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
Trichlorofluoromethane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
Isopropanol	1.03	206	20.6	4.12		0.103	0.515	1.03	5.15	25.8	51.5	103
Acrylonitrile	1.010	202	20.2	4.04		0.101	0.505	1.01	5.05	25.3	50.5	101
1,1-Dichloroethene	1.13	226	22.6	4.52		0.113	0.565	1.13	5.65	28.3	56.5	113
tert-Butanol	1.020	204	20.4	4.08		0.102	0.510	1.02	5.10	25.5	51.0	102
Methylene Chloride	1.12	224	22.4	4.48		0.112	0.560	1.12	5.60	28.0	56.0	112
Allyl Chloride	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
Trichlorotrifluoroethane	1.14	228	22.8	4.56		0.114	0.570	1.14	5.70	28.5	57.0	114
Carbon Disulfide	1.00	200	20.0	4.00		0.100	0.500	1.00	5.00	25.0	50.0	100
trans-1,2-Dichloroethene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
1,1-Dichloroethane	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
Methyl tert-Butyl Ether	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
Vinyl Acetate	0.98	196	19.6	3.92		0.098	0.490	0.980	4.90	24.5	49.0	98.0
2-Butanone	1.12	224	22.4	4.48		0.112	0.560	1.12	5.60	28.0	56.0	112
cis-1,2-Dichloroethene	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
Diisopropyl Ether	1.03	206	20.6	4.12		0.103	0.515	1.03	5.15	25.8	51.5	103
Ethyl Acetate	1.27	254	25.4	5.08		0.127	0.635	1.27	6.35	31.8	63.5	127
n-Hexane	1.12	224	22.4	4.48		0.112	0.560	1.12	5.60	28.0	56.0	112
Chloroform	1.29	258	25.8	5.16		0.129	0.645	1.29	6.45	32.3	64.5	129
Tetrahydrofuran	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
Ethyl tert-Butyl Ether	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
1,2-Dichloroethane	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
1,1,1-Trichloroethane	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
Isopropyl Acetate	1.010	202	20.2	4.04		0.101	0.505	1.01	5.05	25.3	50.5	101
1-Butanol	0.910	182	18.2	3.64		0.091	0.455	0.910	4.55	22.8	45.5	91.0
Benzene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
Carbon Tetrachloride	1.07	214	21.4	4.28		0.107	0.535	1.07	5.35	26.8	53.5	107
Cyclohexane	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
tert-Amyl Methyl Ether	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
1,2-Dichloropropane	1.09	218	21.8	4.36		0.109	0.545	1.09	5.45	27.3	54.5	109
Bromodichloromethane	1.15	230	23.0	4.60		0.115	0.575	1.15	5.75	28.8	57.5	115
Trichloroethene	1.14	228	22.8	4.56		0.114	0.570	1.14	5.70	28.5	57.0	114
1,4-Dioxane	1.15	230	23.0	4.60		0.115	0.575	1.15	5.75	28.8	57.5	115
Isooctane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
Methyl Methacrylate	1.06	212	21.2	4.24		0.106	0.530	1.06	5.30	26.5	53.0	106
n-Heptane	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
cis-1,3-Dichloropropene	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
4-Methyl-2-pentanone	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
trans-1,3-Dichloropropene	1.16	232	23.2	4.64		0.116	0.580	1.16	5.80	29.0	58.0	116
1,1,2-Trichloroethane	1.09	218	21.8	4.36		0.109	0.545	1.09	5.45	27.3	54.5	109
Toluene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
2-Hexanone	1.02	204	20.4	4.08		0.102	0.510	1.02	5.10	25.5	51.0	102
Dibromochloromethane	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
1,2-Dibromoethane	1.09	218	21.8	4.36		0.109	0.545	1.09	5.45	27.3	54.5	109
n-Butyl Acetate	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
n-Octane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
Tetrachloroethene	1.09	218	21.8	4.36		0.109	0.545	1.09	5.45	27.3	54.5	109
Chlorobenzene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
Ethylbenzene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
m-&p-Xylene	2.58	516	51.6	10.32		0.258	1.29	2.58	12.9	64.5	129	258

*R 05/22/08*



**Primary Source Standards Concentrations  
(Working & Initial Calibration)**

4ng/L Std. ID: S20-05210809  
 20ng/L Std. ID: S20-05210806  
 200ng/L Std. ID: S20-05210804

Compounds	Source Std. mg/m <sup>3</sup>	Dilution Factors:			Working STD Conc.(ng/L): Injection (L): ICAL Points:	ICAL Concentrations (Primary Source)						
		5	50	250		4	20	20	20	200	200	200
		200ng/L	20ng/L	4ng/L		0.025	0.025	0.05	0.25	0.125	0.25	0.50
						0.1ng	0.5ng	1ng	5ng	25ng	50ng	100ng
Bromoform	1.31	262	26.2	5.24		0.131	0.655	1.31	6.55	32.8	65.5	131
Styrene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
o-Xylene	1.22	244	24.4	4.88		0.122	0.610	1.22	6.10	30.5	61.0	122
n-Nonane	1.03	206	20.6	4.12		0.103	0.515	1.03	5.15	25.8	51.5	103
1,1,2,2-Tetrachloroethane	1.23	246	24.6	4.92		0.123	0.615	1.23	6.15	30.8	61.5	123
Cumene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
alpha-Pinene	1.06	212	21.2	4.24		0.106	0.530	1.06	5.30	26.5	53.0	106
n-Propylbenzene	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
3-Ethyltoluene	1.02	204	20.4	4.08		0.102	0.510	1.02	5.10	25.5	51.0	102
4-Ethyltoluene	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111
1,3,5-Trimethylbenzene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
alpha-Methylstyrene	1.02	204	20.4	4.08		0.102	0.510	1.02	5.10	25.5	51.0	102
2-Ethyltoluene	0.990	198	19.8	3.96		0.099	0.495	0.990	4.95	24.8	49.5	99.0
1,2,4-Trimethylbenzene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
n-Decane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
Benzyl Chloride	1.07	214	21.4	4.28		0.107	0.535	1.07	5.35	26.8	53.5	107
1,3-Dichlorobenzene	1.06	212	21.2	4.24		0.106	0.530	1.06	5.30	26.5	53.0	106
1,4-Dichlorobenzene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
sec-Butylbenzene	1.07	214	21.4	4.28		0.107	0.535	1.07	5.35	26.8	53.5	107
p-Isopropyltoluene	1.180	236	23.6	4.72		0.118	0.590	1.18	5.90	29.5	59.0	118
1,2,3-Trimethylbenzene	1.10	220	22.0	4.40		0.110	0.550	1.10	5.50	27.5	55.0	110
1,2-Dichlorobenzene	1.08	216	21.6	4.32		0.108	0.540	1.08	5.40	27.0	54.0	108
d-Limonene	1.06	212	21.2	4.24		0.106	0.530	1.06	5.30	26.5	53.0	106
1,2-Dibromo-3-chloropropane	1.04	208	20.8	4.16		0.104	0.520	1.04	5.20	26.0	52.0	104
n-Undecane	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
1,2,4-Trichlorobenzene	1.12	224	22.4	4.48		0.112	0.560	1.12	5.60	28.0	56.0	112
Naphthalene	1.05	210	21.0	4.20		0.105	0.525	1.05	5.25	26.3	52.5	105
n-Dodecane	1.06	212	21.2	4.24		0.106	0.530	1.06	5.30	26.5	53.0	106
Hexachloro-1,3-butadiene	1.11	222	22.2	4.44		0.111	0.555	1.11	5.55	27.8	55.5	111

\*Enter Information in the Solid Shaded Areas ONLY.

*Post 12/08*

Method Path : J:\MS13\METHODS\  
Method File : R13052208.M  
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
Last Update : Thu May 22 11:20:46 2008  
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2008_05\22\05220802.D
2	0.5	1	25	J:\MS13\DATA\2008_05\22\05220803.D
3	1.0	1	25	J:\MS13\DATA\2008_05\22\05220804.D
4	5.0	5	25	J:\MS13\DATA\2008_05\22\05220805.D
5	25	27	25	J:\MS13\DATA\2008_05\22\05220806.D
6	50	54	25	J:\MS13\DATA\2008_05\22\05220807.D
7	100	108	25	J:\MS13\DATA\2008_05\22\05220808.D

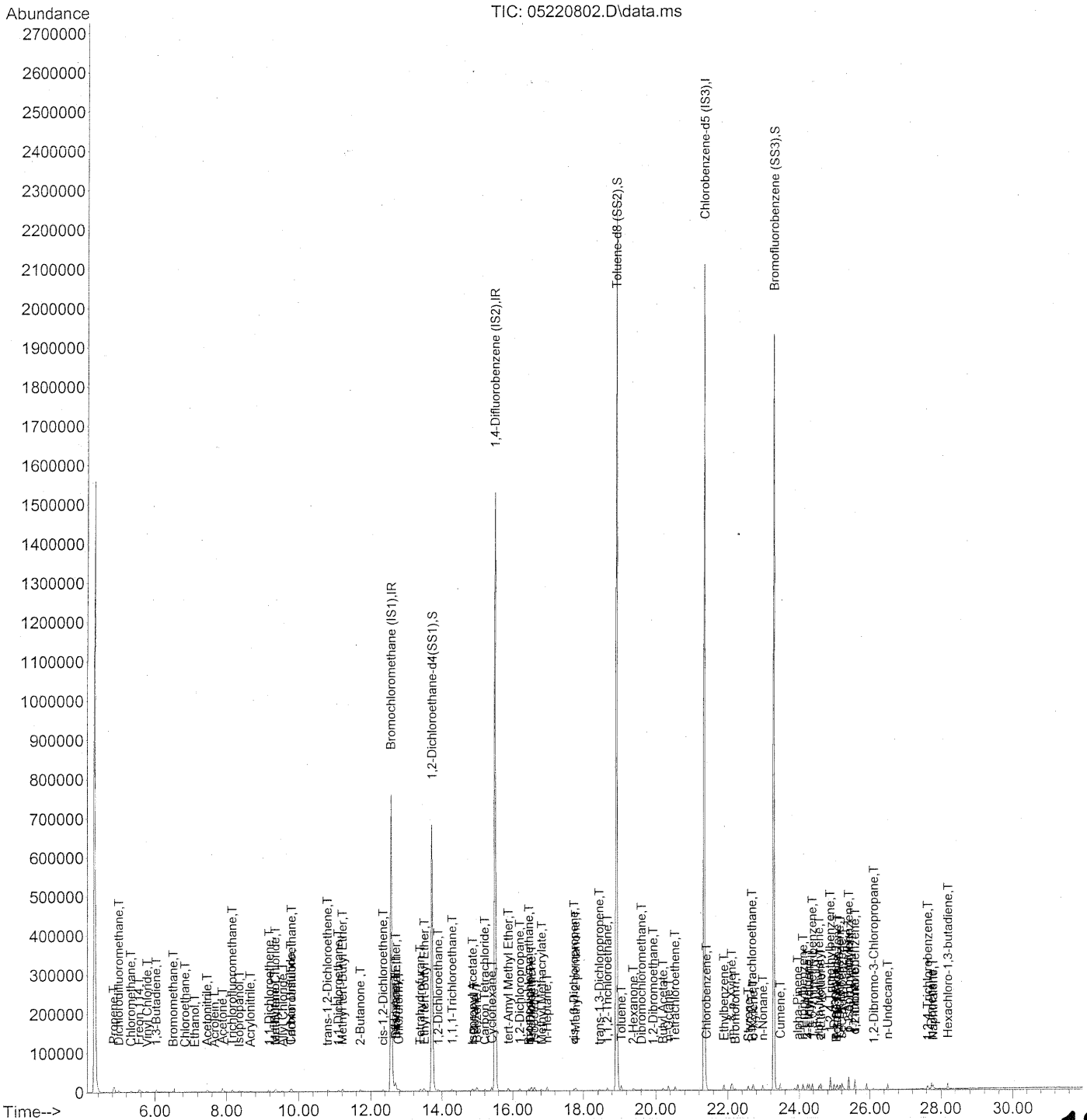
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 22 11:12 2008	May 22 10:30 2008	22 May 2008 3:56 am
2	0.5	May 22 11:12 2008	May 22 11:00 2008	22 May 2008 4:37 am
3	1.0	May 22 11:13 2008	May 22 11:05 2008	22 May 2008 5:18 am
4	5.0	May 22 11:13 2008	May 22 11:07 2008	22 May 2008 5:58 am
5	25	May 22 11:12 2008	May 22 11:09 2008	22 May 2008 6:39 am
6	50	May 22 11:18 2008	May 22 11:18 2008	22 May 2008 7:20 am
7	100	May 22 11:20 2008	May 22 11:19 2008	22 May 2008 8:01 am

R13052208.M Thu May 22 11:36:36 2008

*8/05/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56 am  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56 am  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	391084	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1729052	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	807664	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	701754	22.375	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.48%	✓
57) Toluene-d8 (SS2)	18.92	98	1842585	25.453	ng	-0.01
Spiked Amount	25.000		Recovery	=	101.80%	✓
73) Bromofluorobenzene (SS3)	23.29	174	709723	28.489	ng	0.00
Spiked Amount	25.000		Recovery	=	113.96%	✓

Target Compounds

						Qvalue
2) Propene	4.83	42	5061	0.156	ng	# 48
3) Dichlorodifluoromethane	4.99	85	7164	0.121	ng	95
4) Chloromethane	5.32	50	4719	0.096	ng	98
5) Freon 114	5.55	135	3603	0.125	ng	90
6) Vinyl Chloride	5.78	62	4379	0.095	ng	98
7) 1,3-Butadiene	6.04	54	2828	0.080	ng	# 64
8) Bromomethane	6.52	94	2671	0.121	ng	91
9) Chloroethane	6.85	64	2013	0.106	ng	89
10) Ethanol	7.13	45	2327	0.105	ng	69
11) Acetonitrile	7.46	41	9386m	0.162	ng	
12) Acrolein	7.67	56	1454	0.093	ng	88
13) Acetone	7.89	58	5705	0.264	ng	88
14) Trichlorofluoromethane	8.16	101	5976	0.129	ng	93
15) Isopropanol	8.36	45	9307m	0.127	ng	
16) Acrylonitrile	8.66	53	3038m	0.090	ng	
17) 1,1-Dichloroethene	9.18	96	2673	0.124	ng	# 83
18) tert-Butanol	9.35	59	6738m	0.111	ng	
19) Methylene Chloride	9.36	84	3346	0.135	ng	94
20) Allyl Chloride	9.56	41	2408	0.072	ng	# 62
21) Trichlorotrifluoroethane	9.81	151	3176m	0.160	ng	
22) Carbon Disulfide	9.78	76	11562	0.125	ng	99
23) trans-1,2-Dichloroethene	10.80	61	4305	0.114	ng	83
24) 1,1-Dichloroethane	11.10	63	4824	0.110	ng	79
25) Methyl tert-Butyl Ether	11.21	73	8652	0.120	ng	79
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	11.71	72	1992	0.131	ng	95
28) cis-1,2-Dichloroethene	12.34	61	4126	0.116	ng	75
29) Diisopropyl Ether	12.70	87	2307	0.116	ng	# 69
30) Ethyl Acetate	12.71	61	986m	0.104	ng	
31) n-Hexane	12.70	57	5268	0.107	ng	99

*Handwritten signature*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56 am  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	5431	0.149	ng	92
34) Tetrahydrofuran	13.39	72	1773	0.117	ng #	84
35) Ethyl tert-Butyl Ether	13.50	87	2951	0.113	ng #	71
36) 1,2-Dichloroethane	13.89	62	4343	0.120	ng	90
38) 1,1,1-Trichloroethane	14.29	97	4950	0.137	ng	88
39) Isopropyl Acetate	14.86	61	1308	0.083	ng #	10
40) 1-Butanol	14.91	56	1741	0.074	ng	96
41) Benzene	14.98	78	11869	0.129	ng	95
42) Carbon Tetrachloride	15.21	117	3678	0.121	ng	99
43) Cyclohexane	15.42	84	4351	0.128	ng #	76
44) tert-Amyl Methyl Ether	15.88	73	7209	0.110	ng	95
45) 1,2-Dichloropropane	16.20	63	2736	0.104	ng	97
46) Bromodichloromethane	16.46	83	3490	0.112	ng	89
47) Trichloroethene	16.53	130	4177	0.185	ng	94
48) 1,4-Dioxane	16.51	88	2194m	0.135	ng	
49) Isooctane	16.61	57	12078	0.111	ng	80
50) Methyl Methacrylate	16.82	100	897m	0.108	ng	
51) n-Heptane	16.98	71	2634	0.104	ng #	82
52) cis-1,3-Dichloropropene	17.73	75	3506	0.098	ng	91
53) 4-Methyl-2-pentanone	17.78	58	2473	0.099	ng	88
54) trans-1,3-Dichloropropene	18.44	75	3250	0.105	ng	90
55) 1,1,2-Trichloroethane	18.67	97	2567	0.116	ng	87
58) Toluene	19.06	91	12306	0.135	ng	98
59) 2-Hexanone	19.38	43	6301	0.093	ng	79
60) Dibromochloromethane	19.61	129	2754	0.126	ng	80
61) 1,2-Dibromoethane	19.93	107	2806	0.131	ng	92
62) Butyl Acetate	20.20	43	6226	0.092	ng	86
63) n-Octane	20.35	57	2319	0.109	ng	83
64) Tetrachloroethene	20.53	166	3819	0.168	ng	82
65) Chlorobenzene	21.41	112	7983	0.142	ng	95
66) Ethylbenzene	21.89	91	13068	0.129	ng	92
67) m- & p-Xylene	22.10	91	20087	0.296	ng	91
68) Bromoform	22.21	173	2452	0.163	ng	90
69) Styrene	22.58	104	7400	0.126	ng	96
70) o-Xylene	22.71	91	10499	0.144	ng	85
71) n-Nonane	22.98	43	5563	0.095	ng	90
72) 1,1,2,2-Tetrachloroethane	22.68	83	3449	0.099	ng	85
74) Cumene	23.47	105	12486	0.135	ng	99
75) alpha-Pinene	23.96	93	5861	0.119	ng	76
76) n-Propylbenzene	24.10	91	15192	0.122	ng	97
77) 3-Ethyltoluene	24.23	105	11331	0.112	ng	99
78) 4-Ethyltoluene	24.28	105	11881	0.128	ng	98
79) 1,3,5-Trimethylbenzene	24.37	105	11413	0.138	ng	96

*5/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:30:28 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration

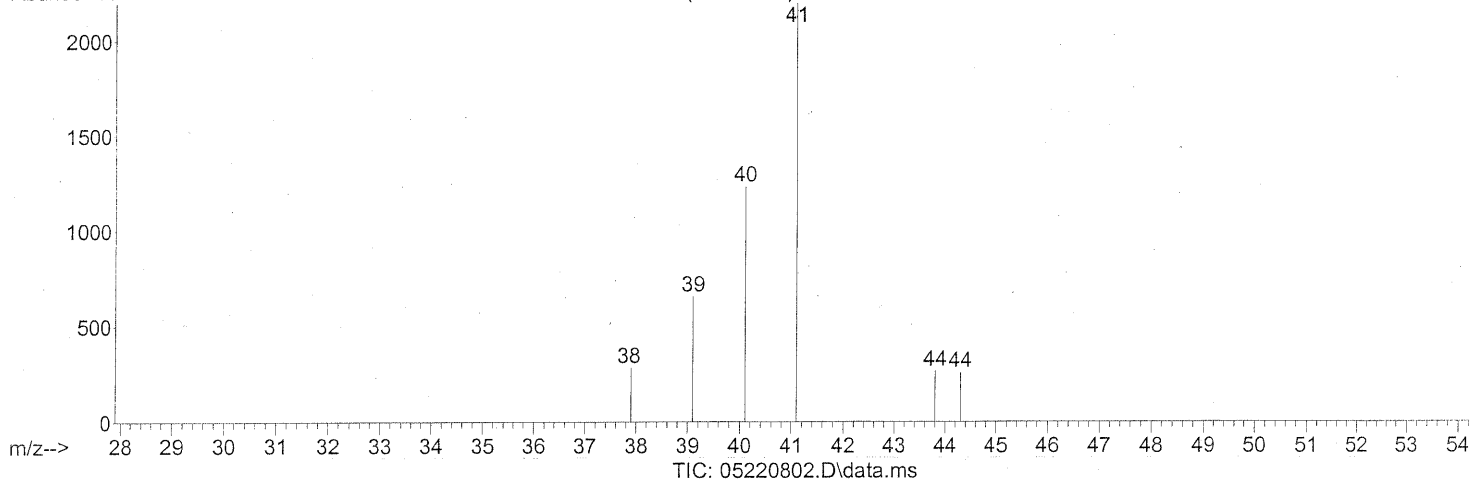
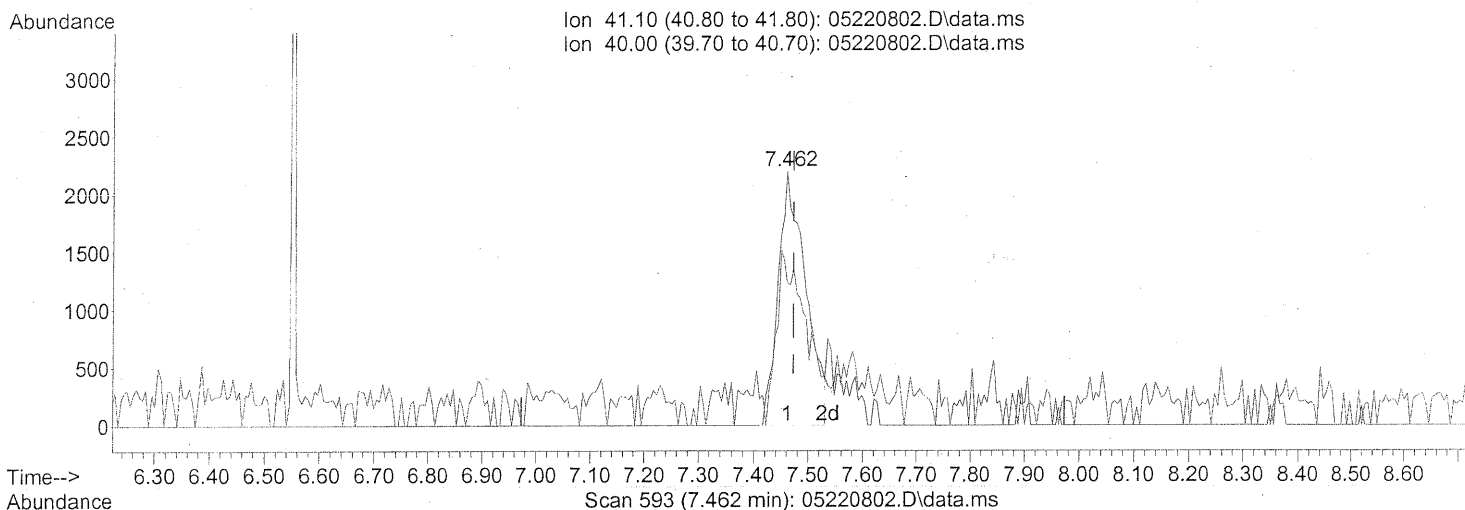
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	4915	0.112	ng	97
81) 2-Ethyltoluene	24.61	105	11131	0.110	ng	87
82) 1,2,4-Trimethylbenzene	24.88	105	10550	0.113	ng	98
83) n-Decane	24.98	57	4936	0.096	ng	78
84) Benzyl Chloride	25.05	91	4673	0.073	ng	85
85) 1,3-Dichlorobenzene	25.08	146	6174	0.122	ng	98
86) 1,4-Dichlorobenzene	25.15	146	6453	0.133	ng	98
87) sec-Butylbenzene	25.21	105	13141	0.120	ng	99
88) p-Isopropyltoluene	25.40	119	11350	0.119	ng	89
89) 1,2,3-Trimethylbenzene	25.41	105	9730	0.106	ng	99
90) 1,2-Dichlorobenzene	25.58	146	6021	0.116	ng	97
91) d-Limonene	25.58	68	3768	0.089	ng	86
92) 1,2-Dibromo-3-Chloropr...	26.11	157	1294	0.094	ng #	79
93) n-Undecane	26.50	57	5074	0.094	ng	82
94) 1,2,4-Trichlorobenzene	27.64	180	4707	0.147	ng	98
95) Naphthalene	27.78	128	13348	0.129	ng	90
96) n-Dodecane	27.74	57	4947	0.090	ng	78
97) Hexachloro-1,3-butadiene	28.19	225	3048	0.147	ng	89

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

*Handwritten signature*  
5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(11) Acetonitrile (T)

7.462min (-0.011) 0.13ng

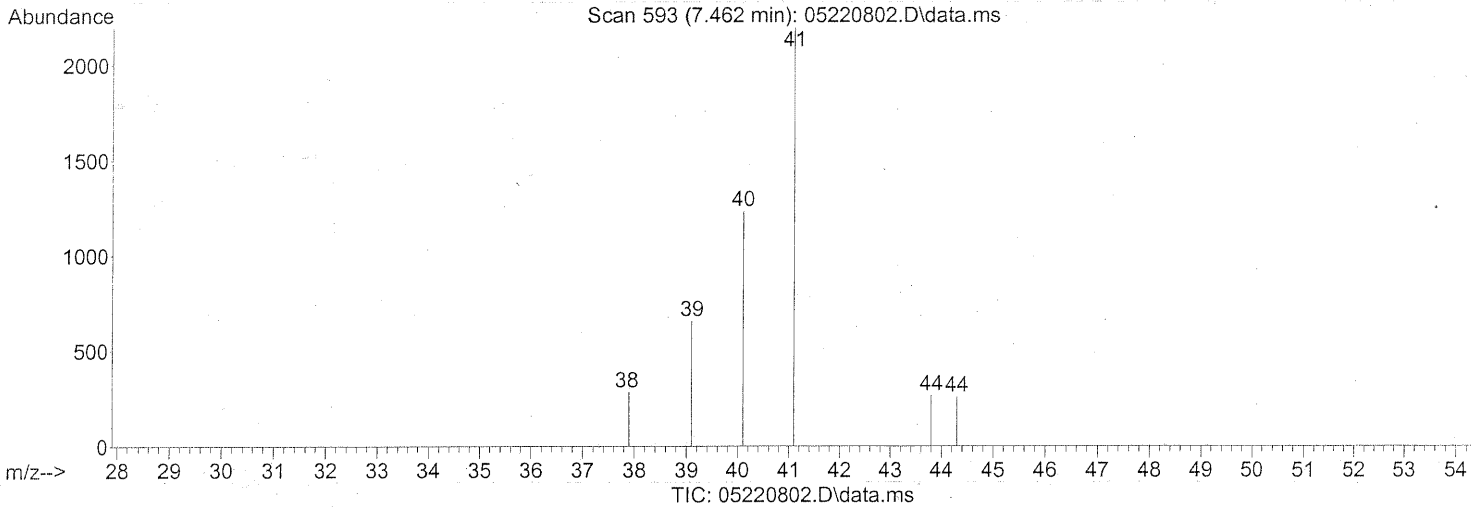
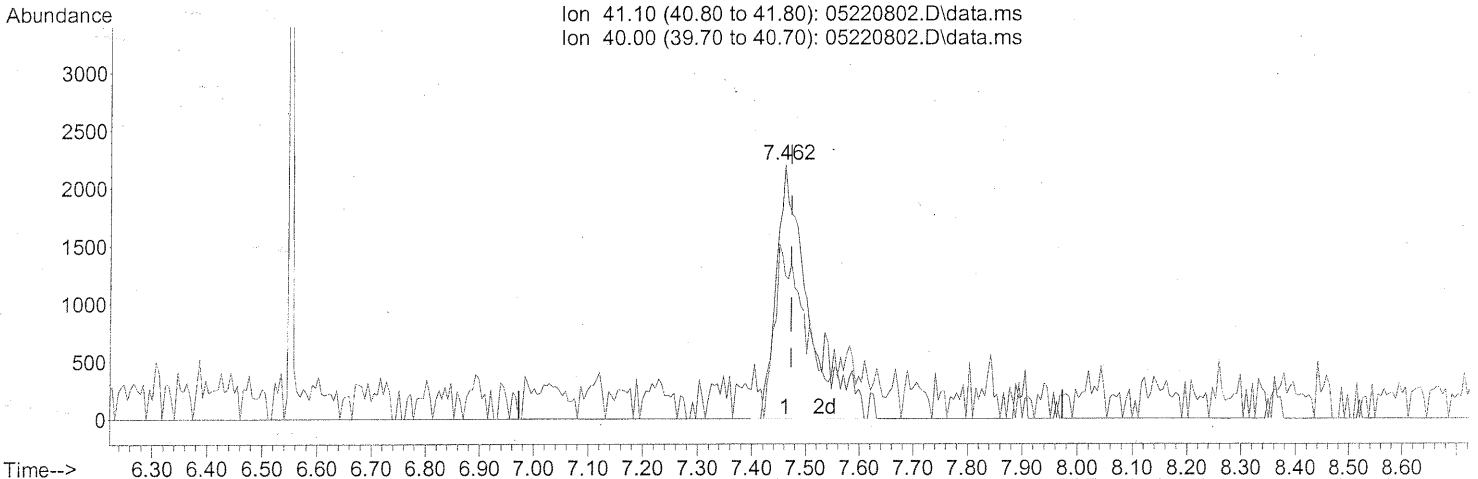
response 7728

TAILING

Ion	Exp%	Act%
41.10	100	100
40.00	51.40	76.95#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56 am  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(11) Acetonitrile (T)  
 7.462min (-0.011) 0.16ng m  
 response 9386

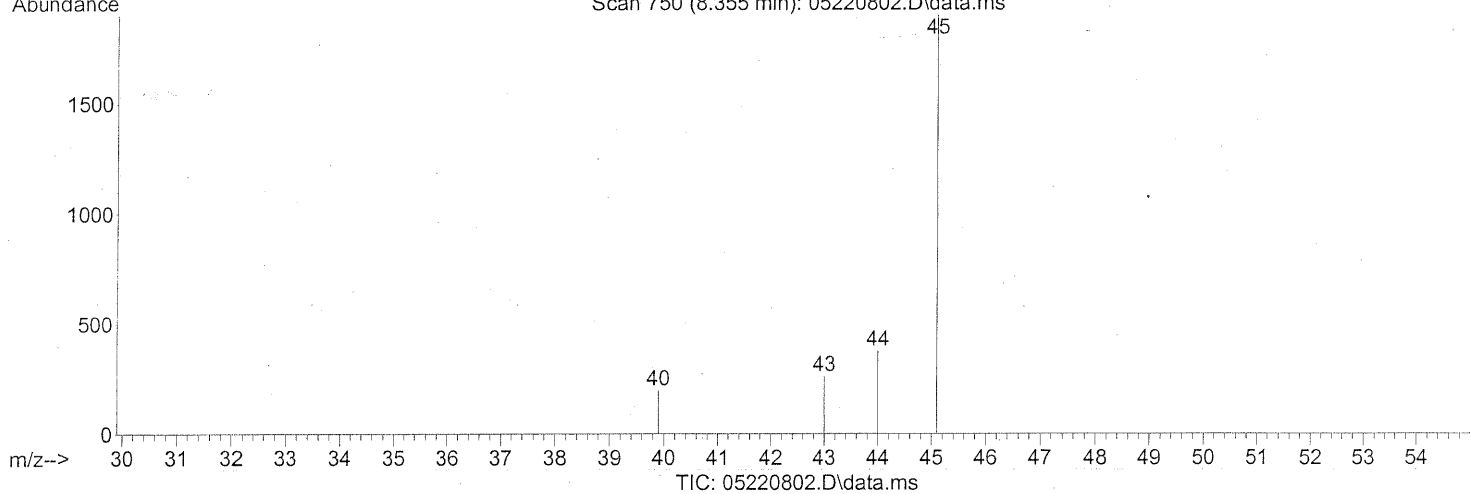
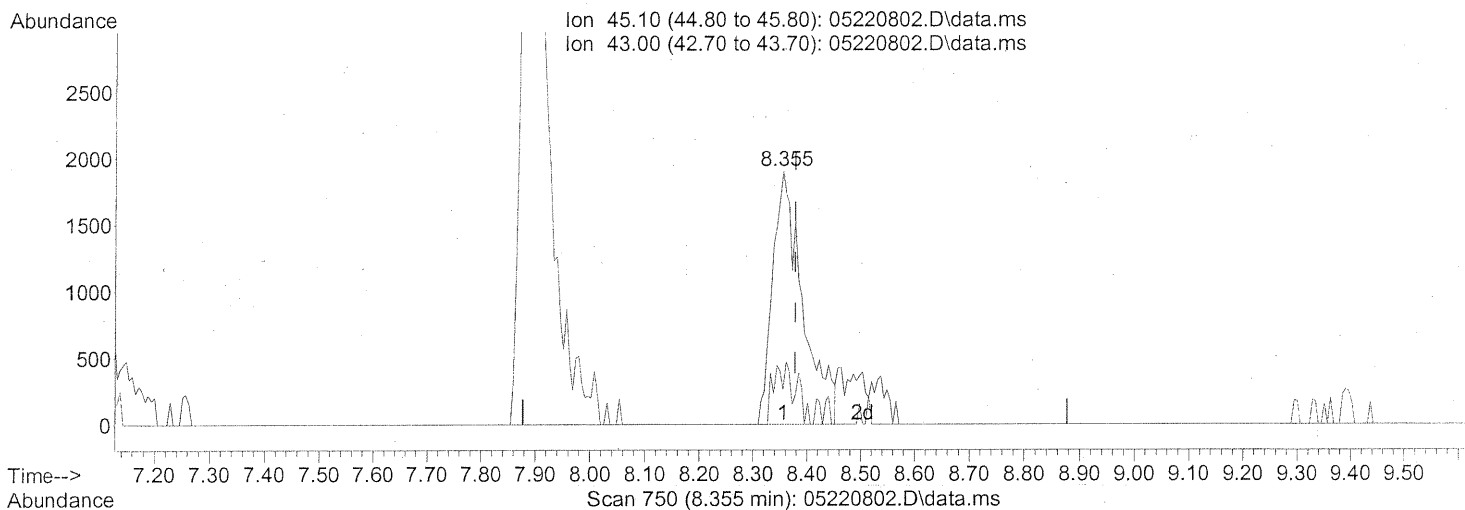
Ion	Exp%	Act%
41.10	100	100
40.00	51.40	63.36
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
 P 05/22/08  
 Con 5/22/08



Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration

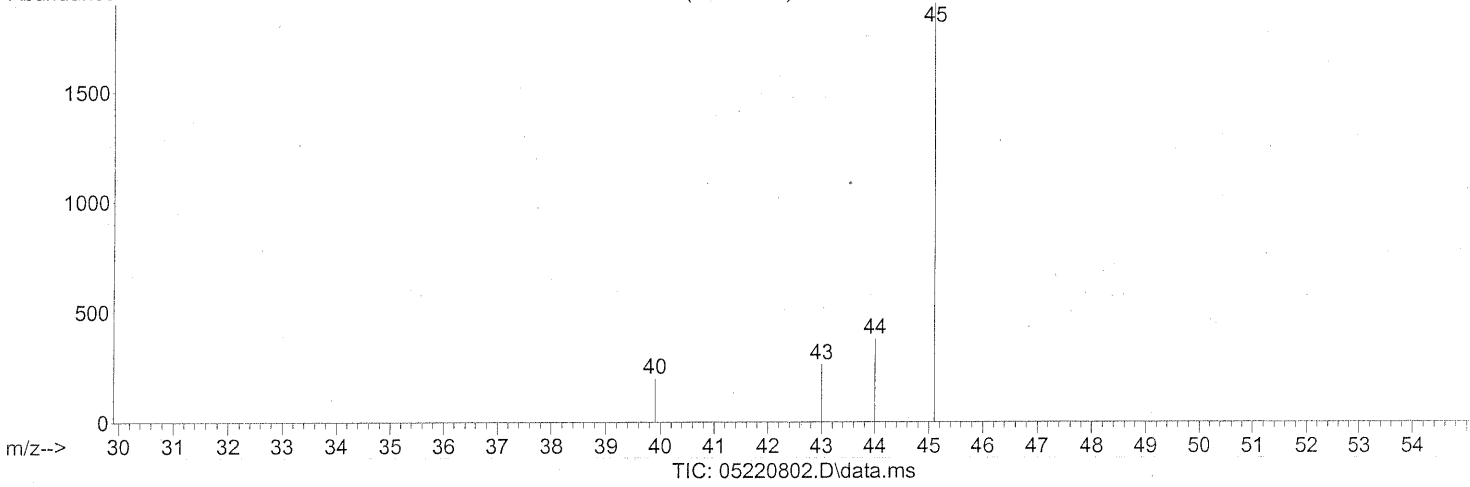
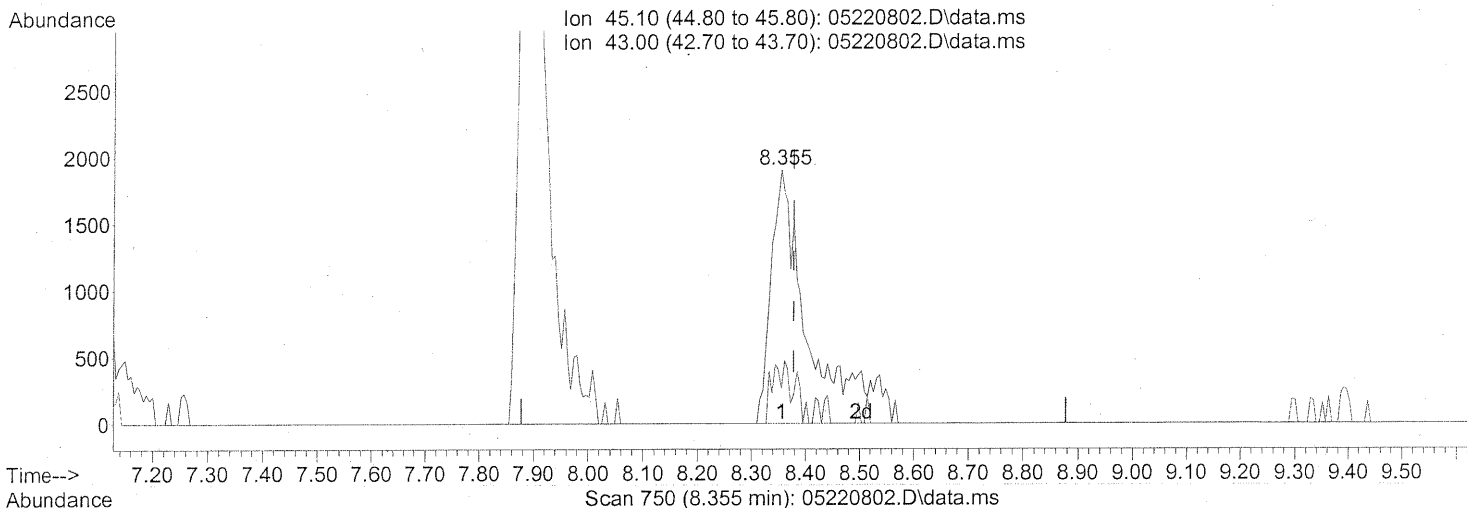


(15) Isopropanol (T)  
8.355min (-0.023) 0.10ng  
response 7356  
Ion Exp% Act%  
45.10 100 100  
43.00 16.90 12.83  
0.00 0.00 0.00  
0.00 0.00 0.00

TAILING

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



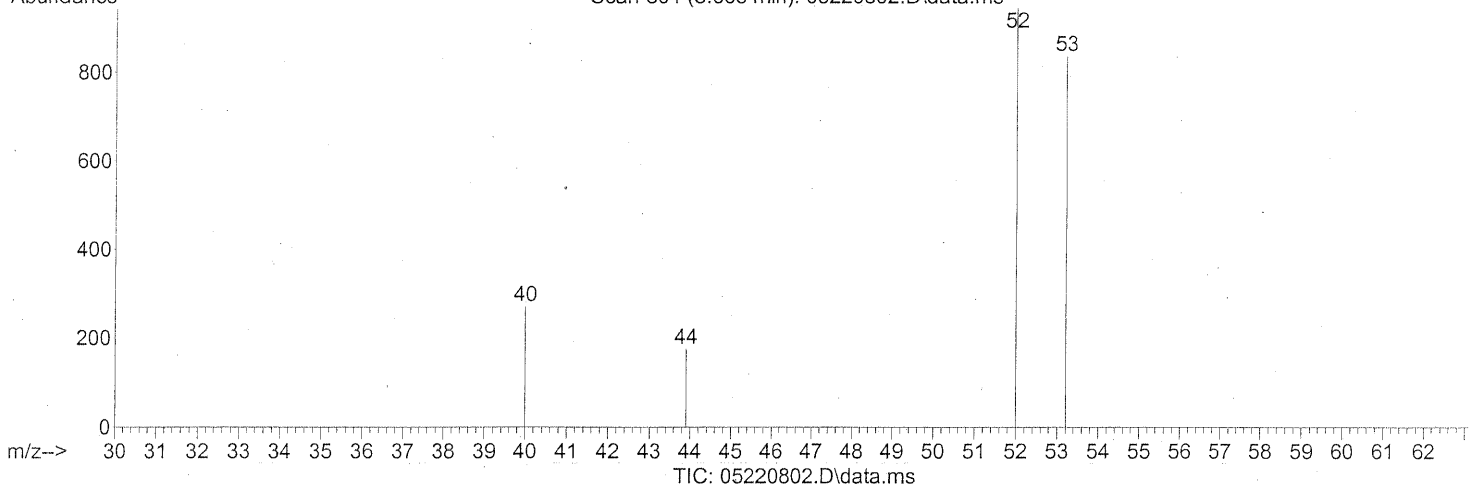
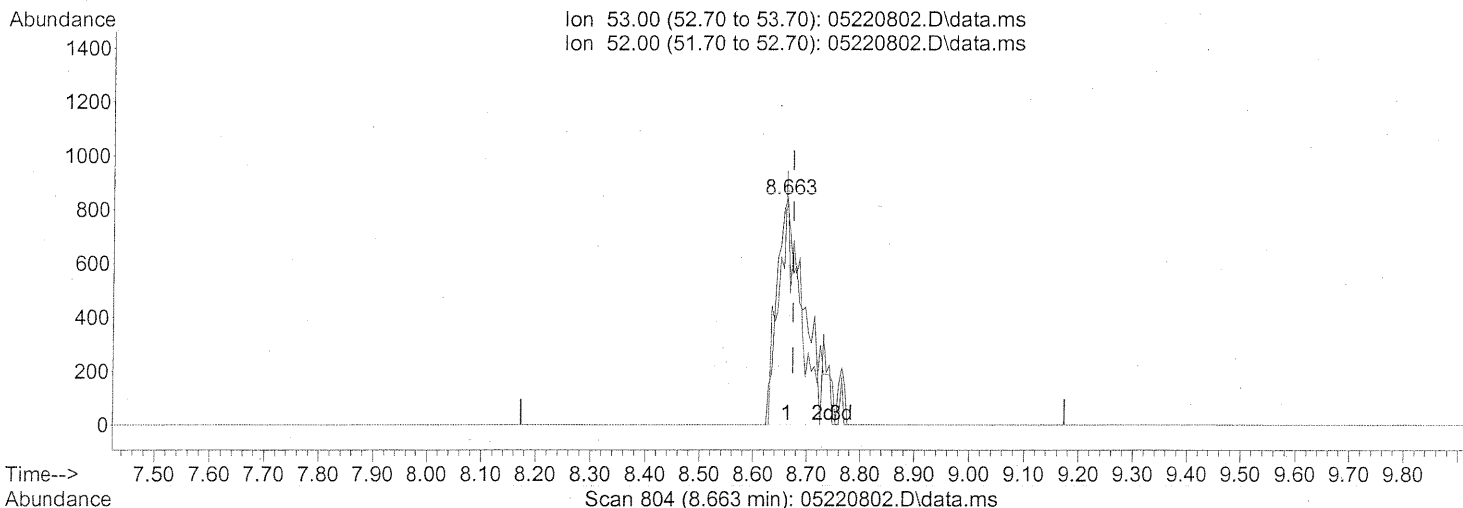
(15) Isopropanol (T)  
8.355min (-0.023) 0.13ng m  
response 9307

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	10.14
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
8/05/22/08  
8m 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.663min (-0.011) 0.08ng

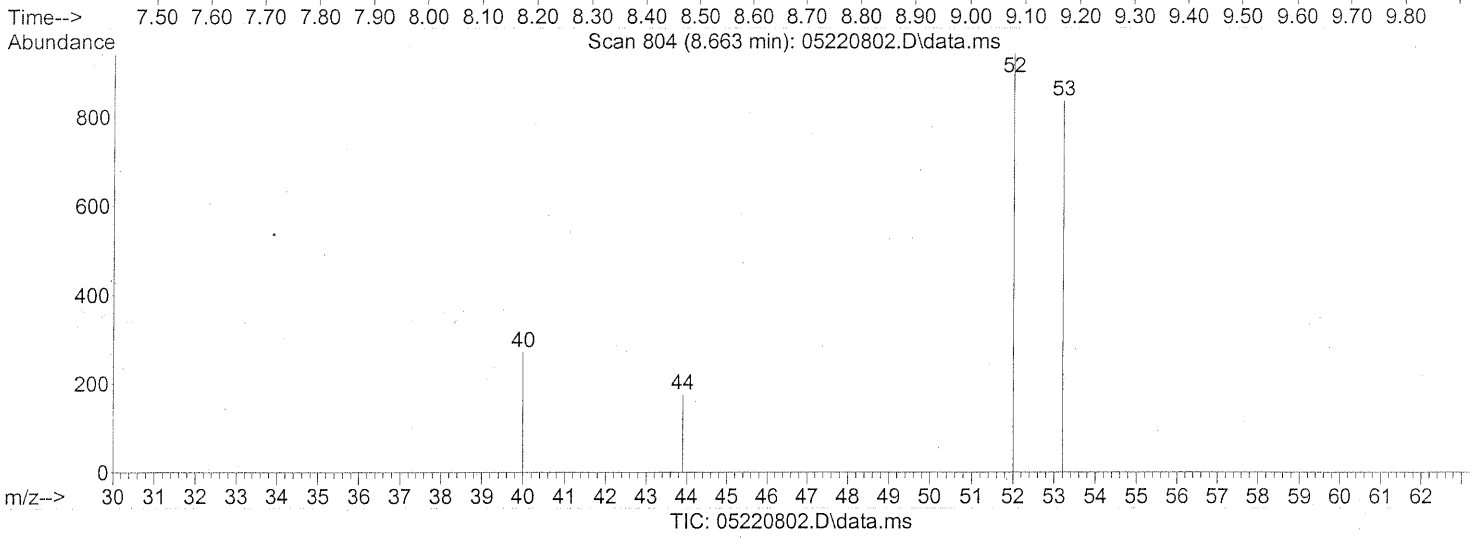
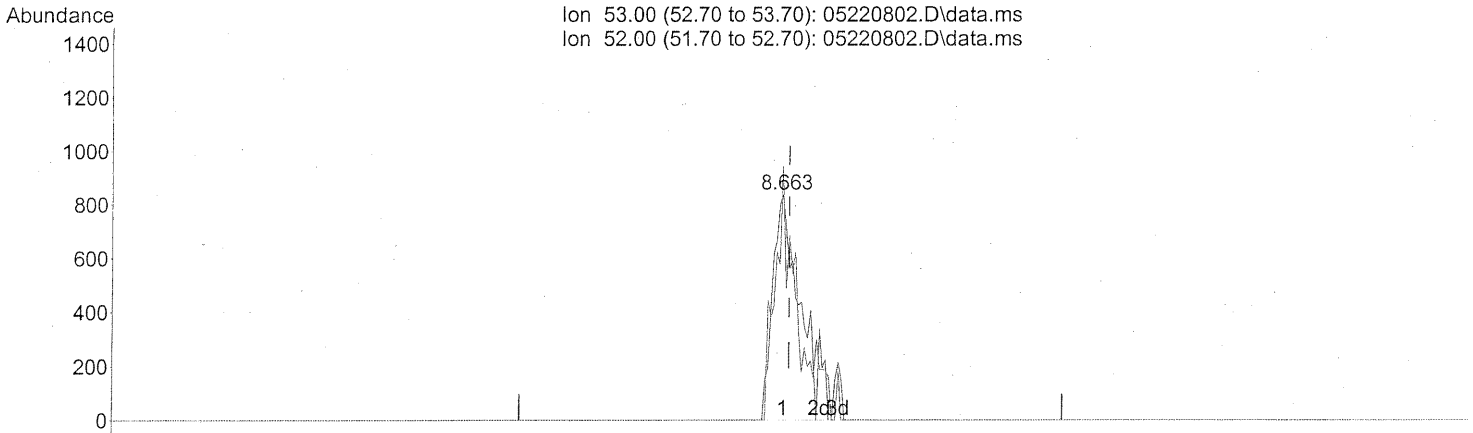
response 2779

TAILING

Ion	Exp%	Act%
53.00	100	100
52.00	82.50	87.08
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(16) Acrylonitrile (T)

8.663min (-0.011) 0.09ng m

response 3038

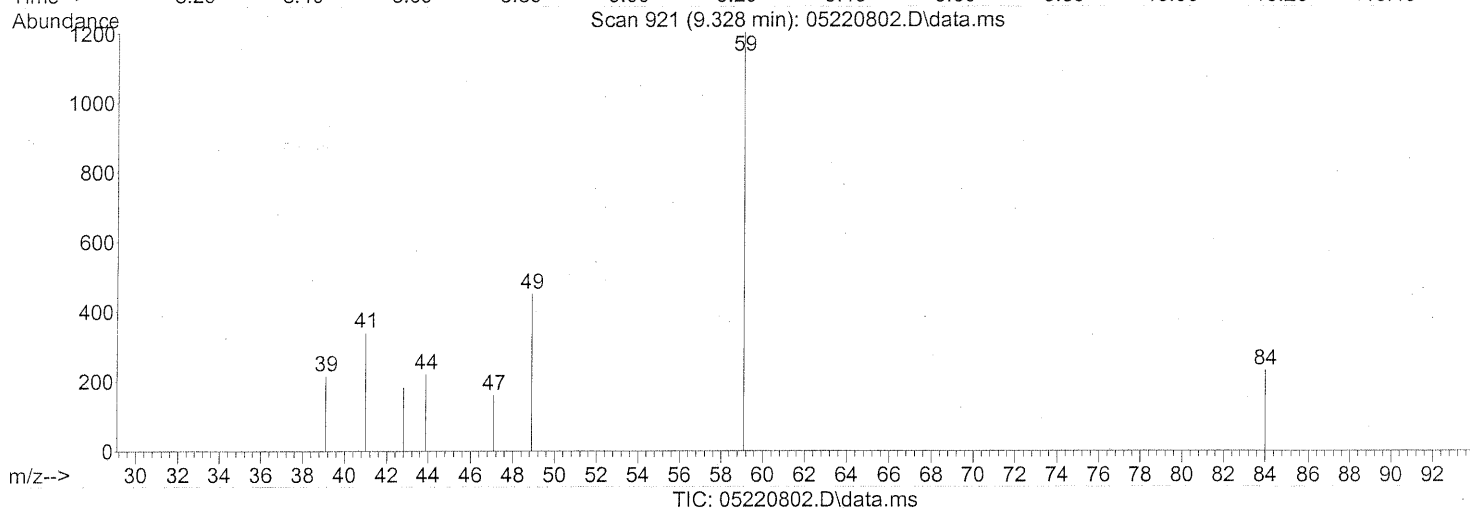
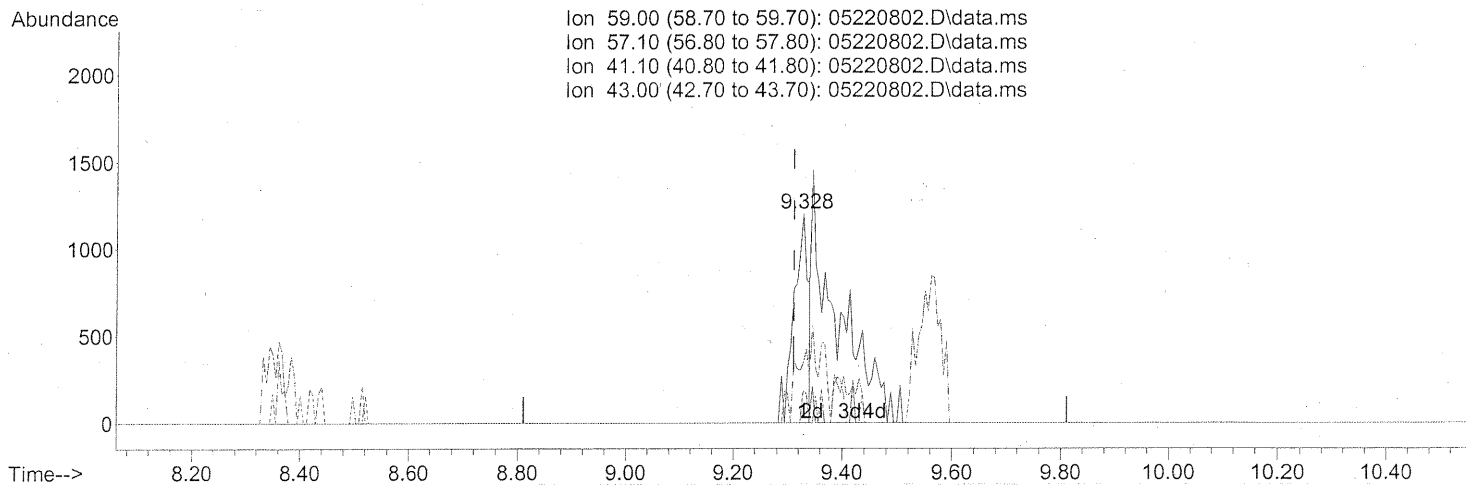
Ion	Exp%	Act%
53.00	100	100
52.00	82.50	79.66
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
E 05/22/08  
RM 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)

9.328min (+0.017) 0.04ng

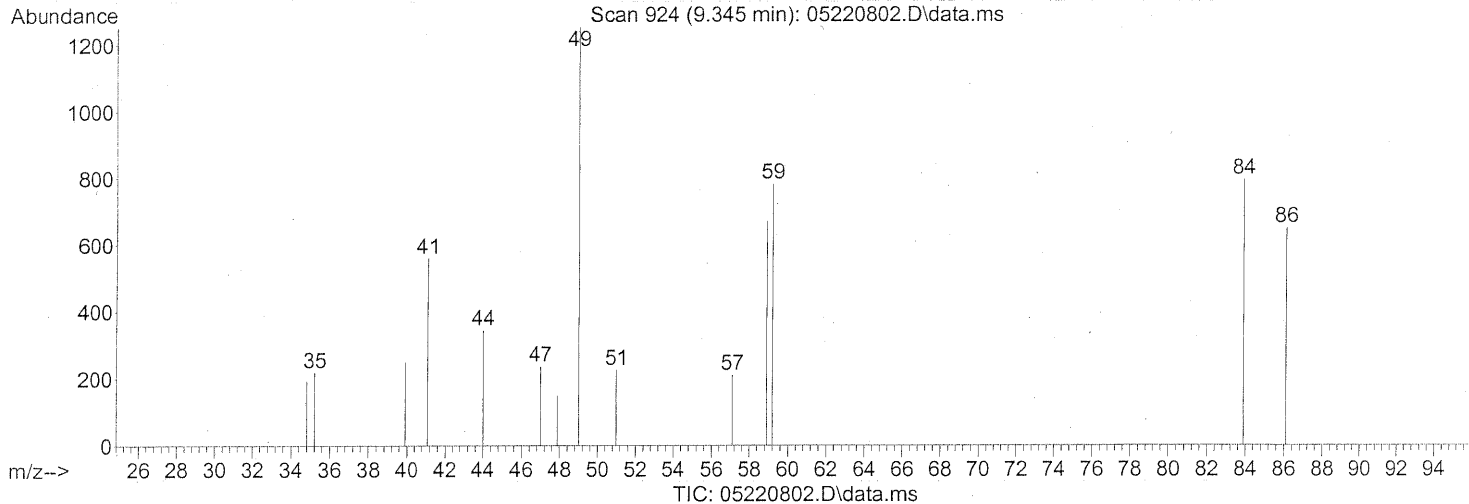
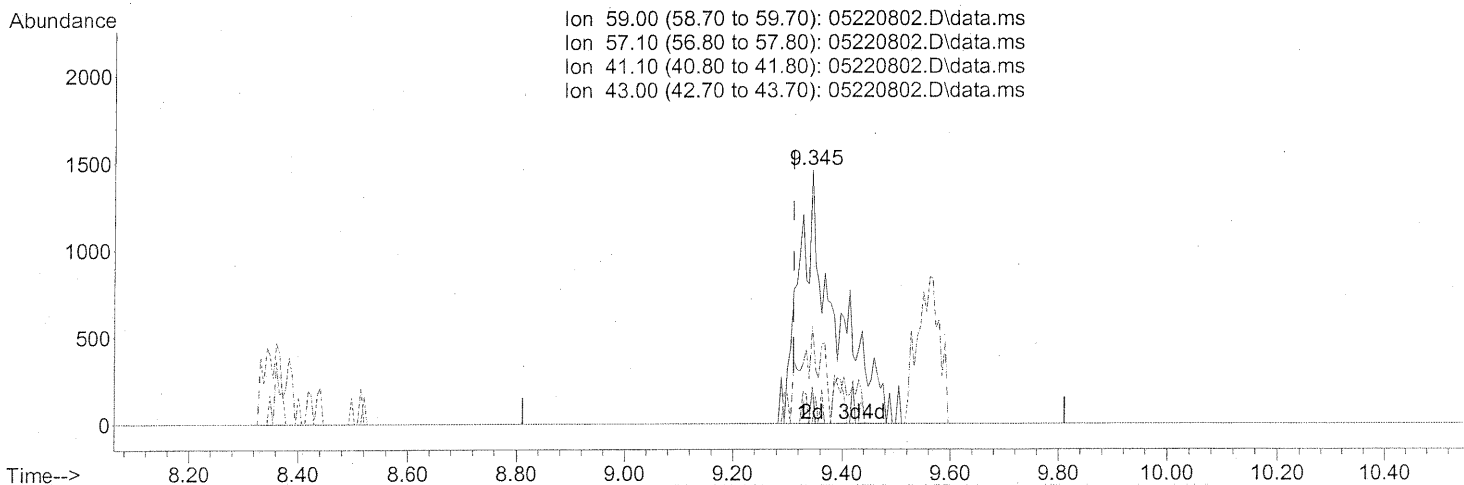
response 2180

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	31.33
43.00	12.30	5.55

SPLIT PEAK

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)  
9.345min (+0.034) 0.11ng m  
response 6738

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	0.00
41.10	20.10	10.14
43.00	12.30	1.80

INT. THE WHOLE PEAK

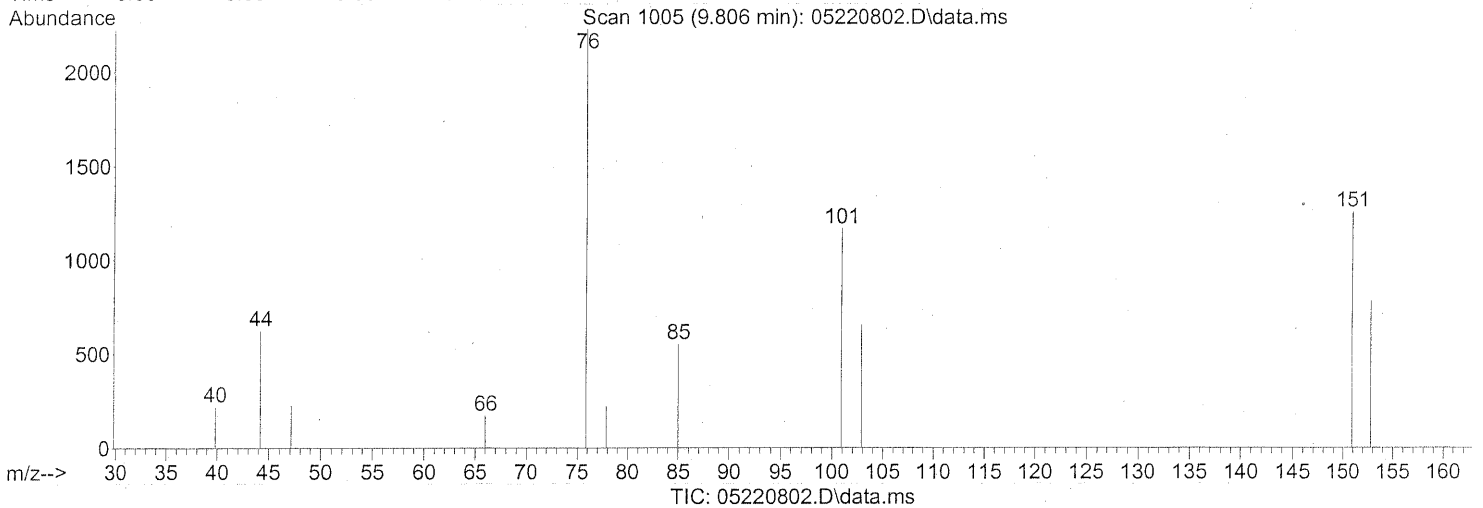
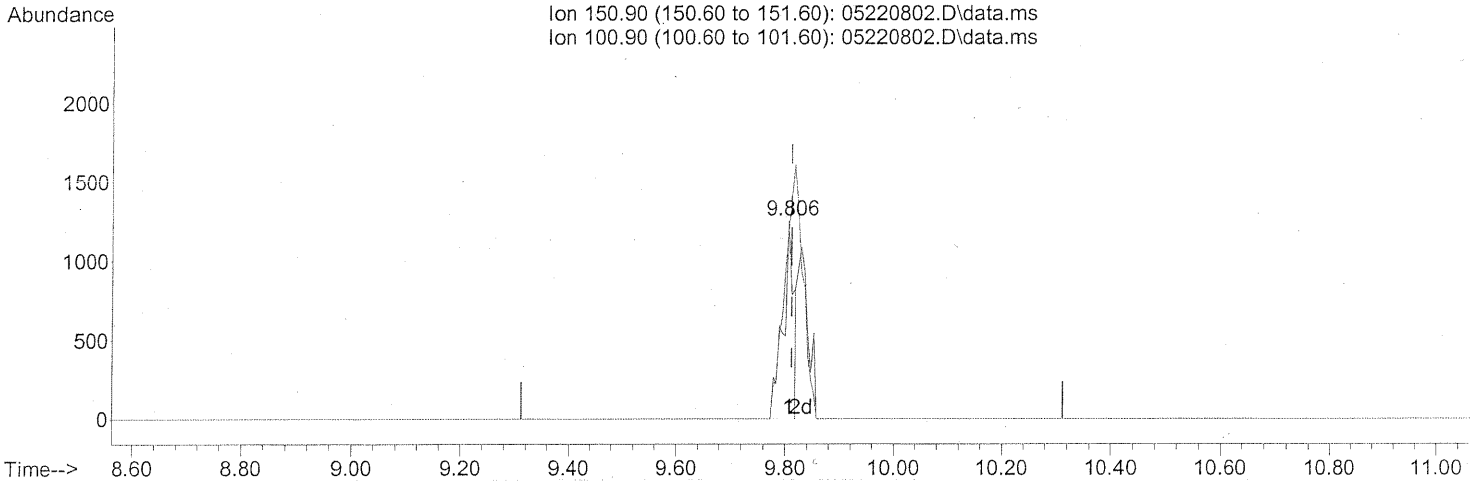
4/05/22/08

Em 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.09ng

response 1705

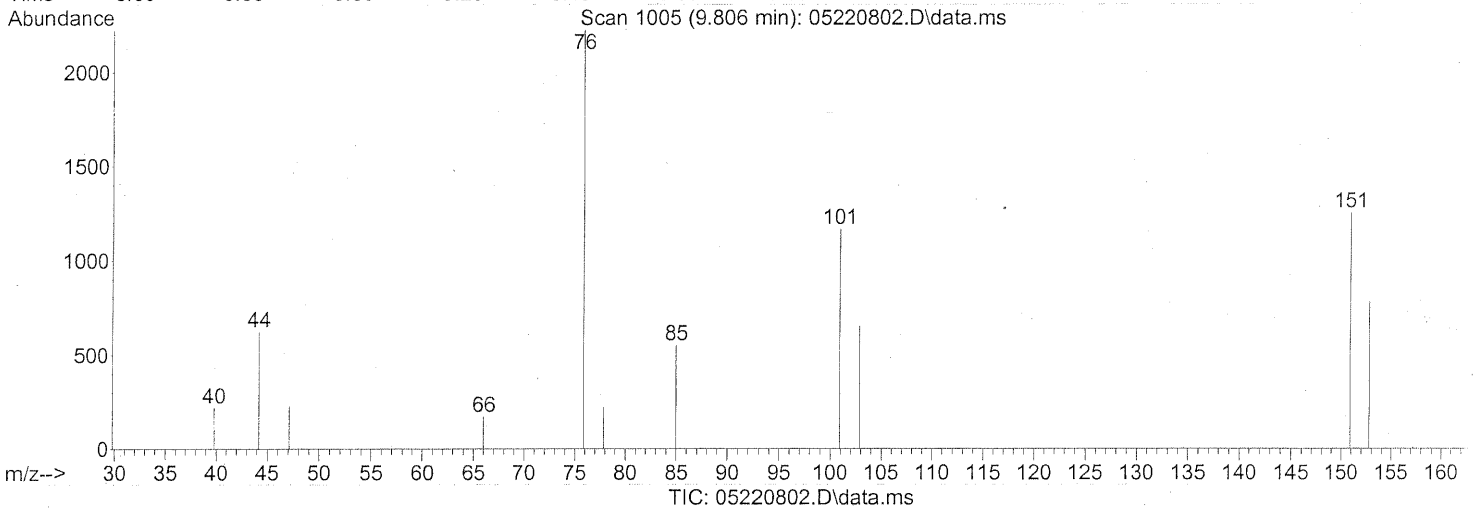
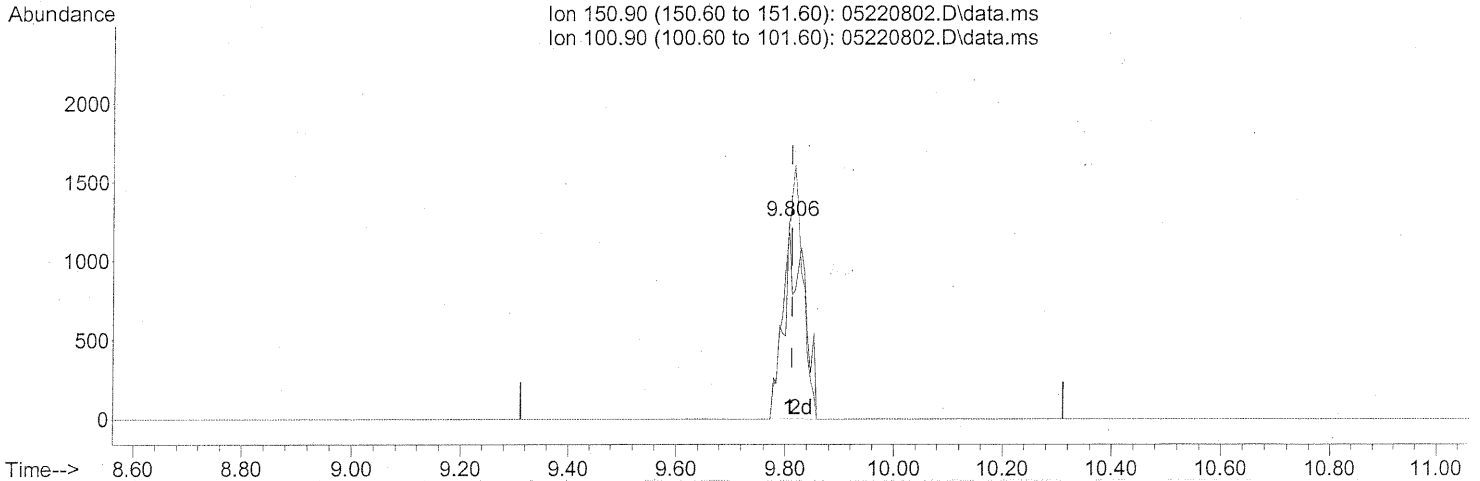
Ion	Exp%	Act%
150.90	100	100
100.90	126.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(21) Trichlorotrifluoroethane (T)

9.806min (-0.005) 0.16ng m

response 3176

Ion	Exp%	Act%
150.90	100	100
100.90	126.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK

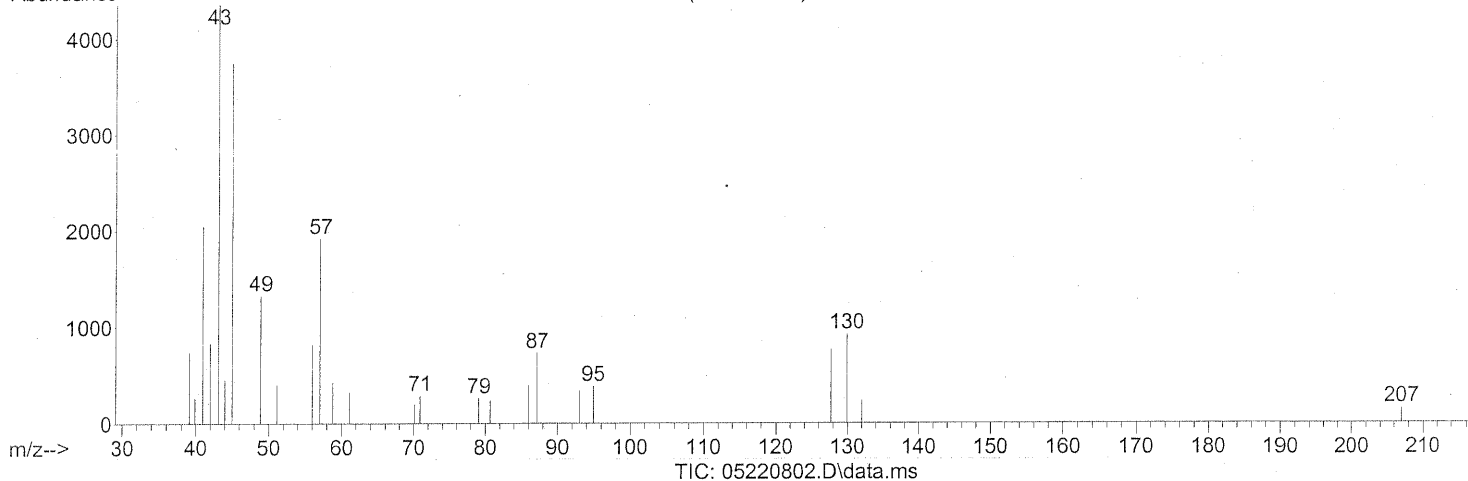
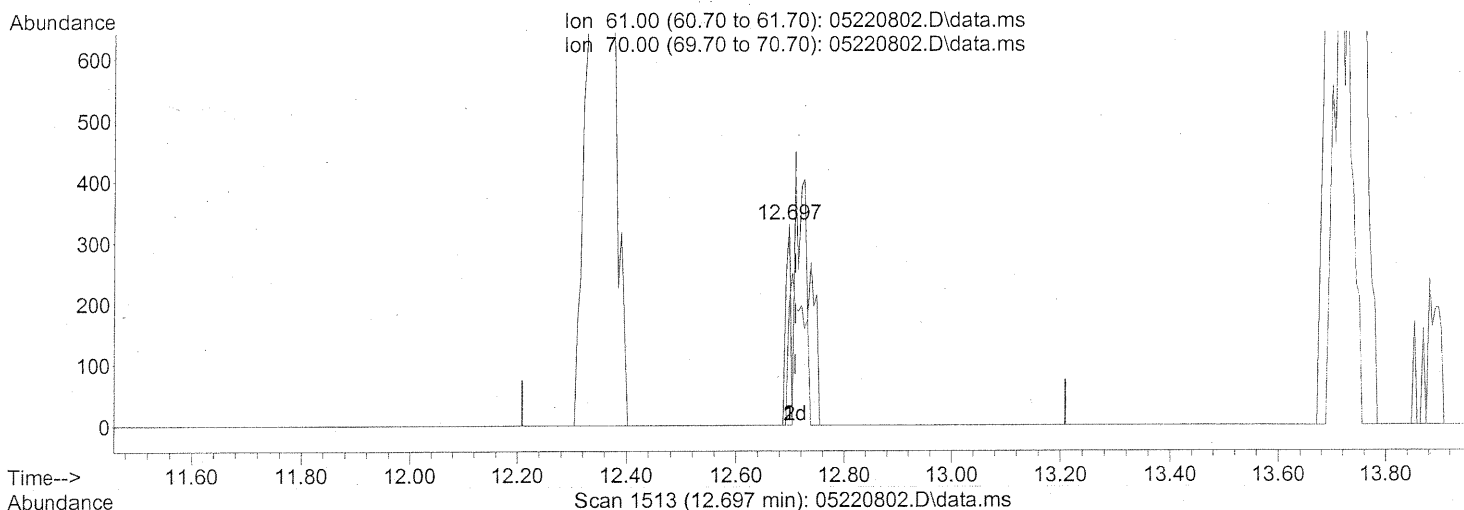
5/22/08

Em 5/22/08



Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(30) Ethyl Acetate (T)  
12.697min (-0.012) 0.02ng

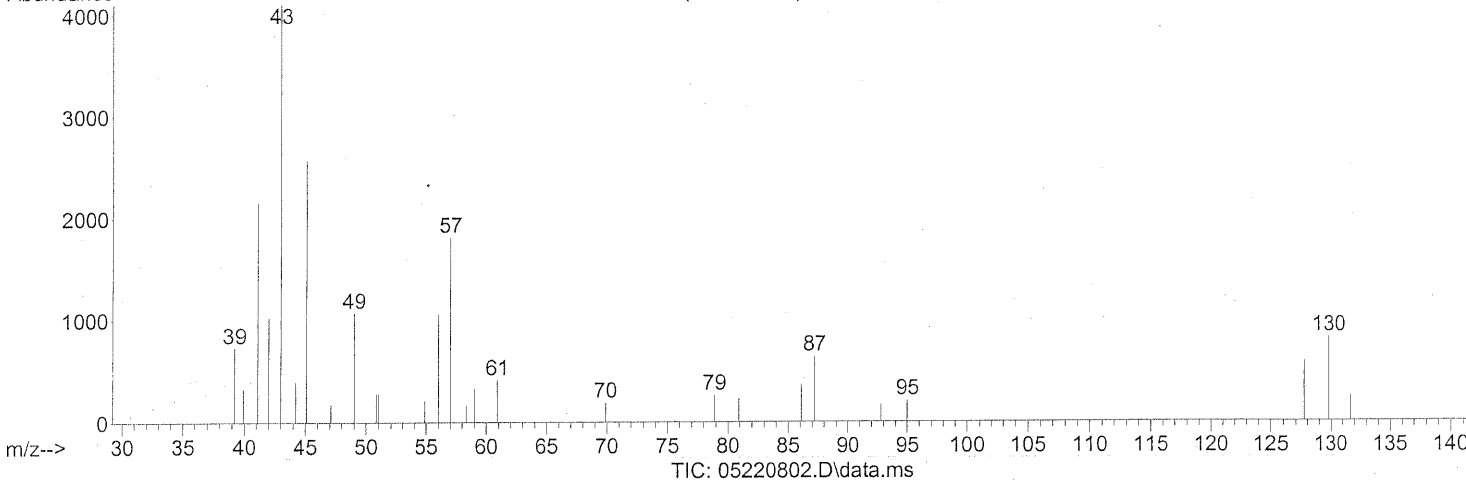
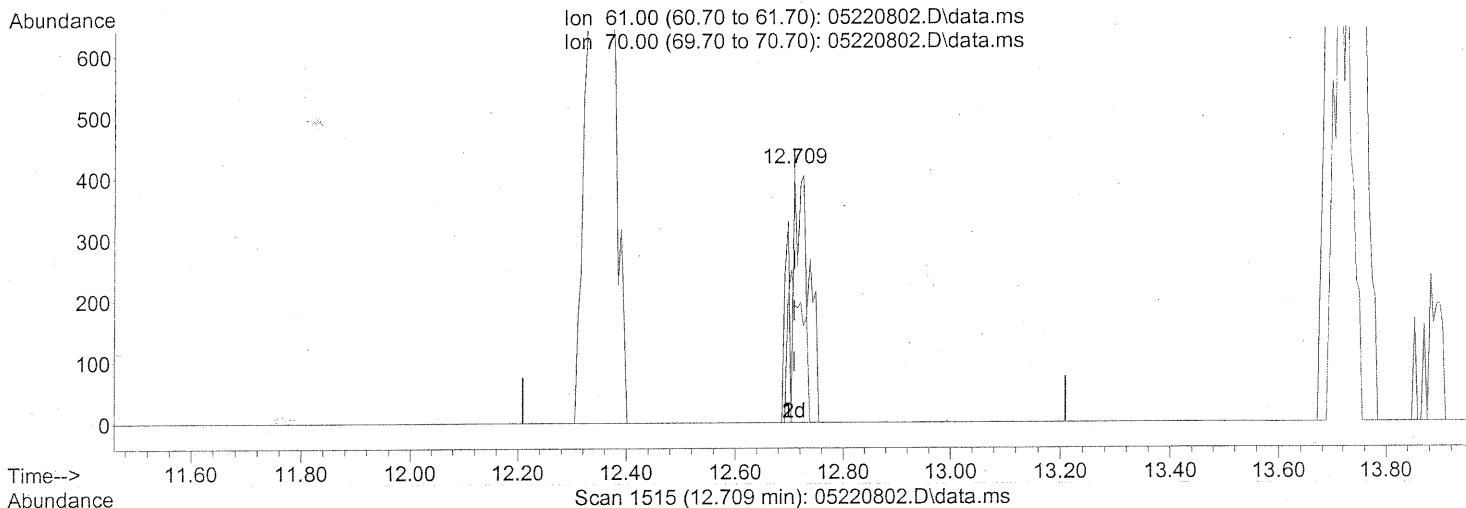
SPLIT PEAK

response 195

Ion	Exp%	Act%
61.00	100	100
70.00	58.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(30) Ethyl Acetate (T)  
12.709min (-0.000) 0.10ng m

response 986

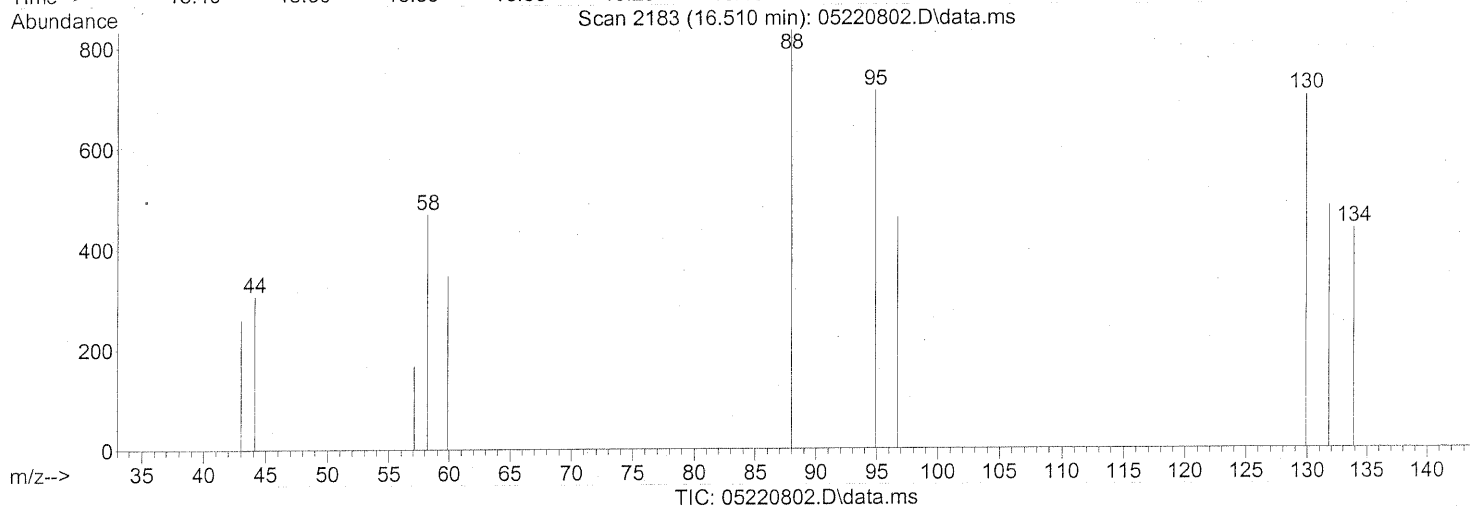
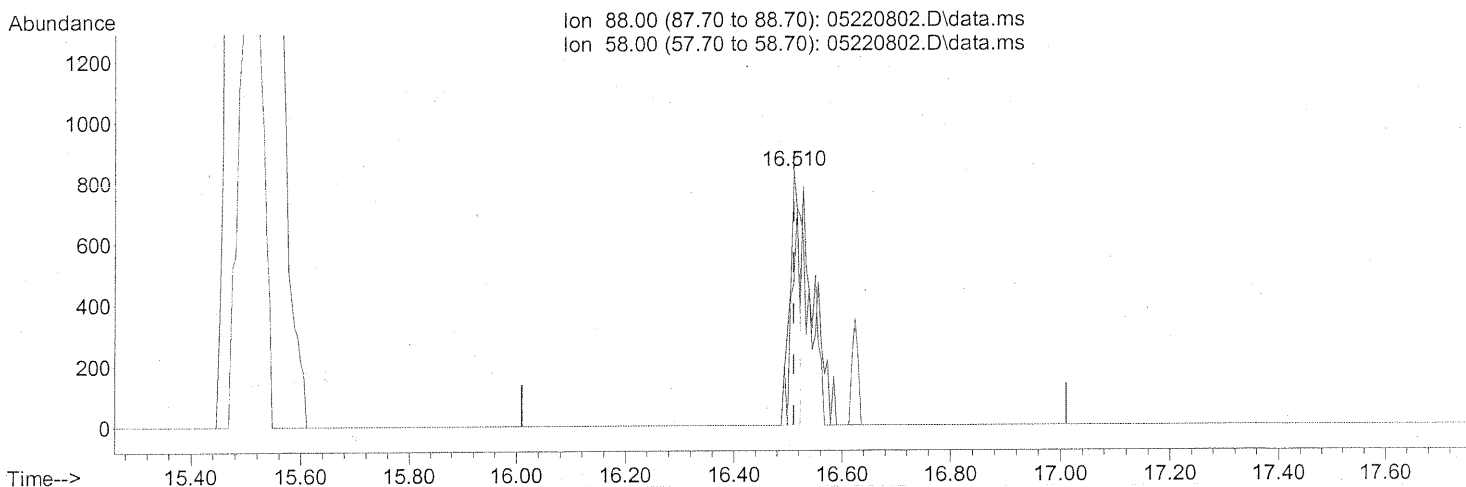
Ion	Exp%	Act%
61.00	100	100
70.00	58.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK  
Post 22/08  
Em 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(48) 1,4-Dioxane (T)

16.510min (+0.000) 0.06ng

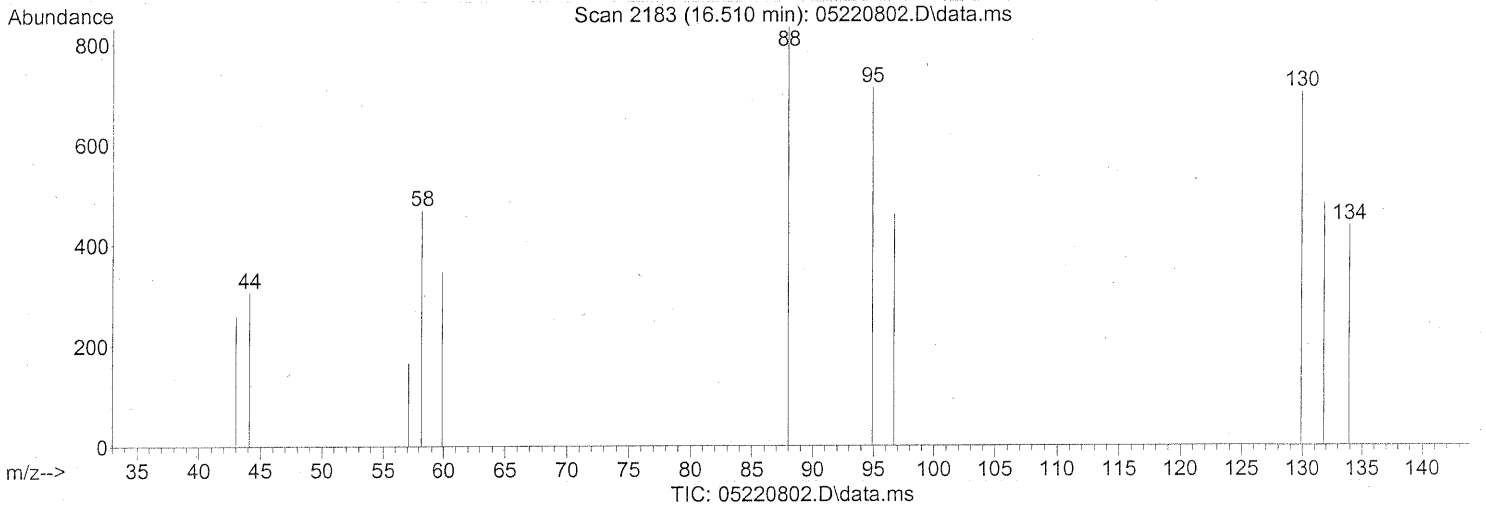
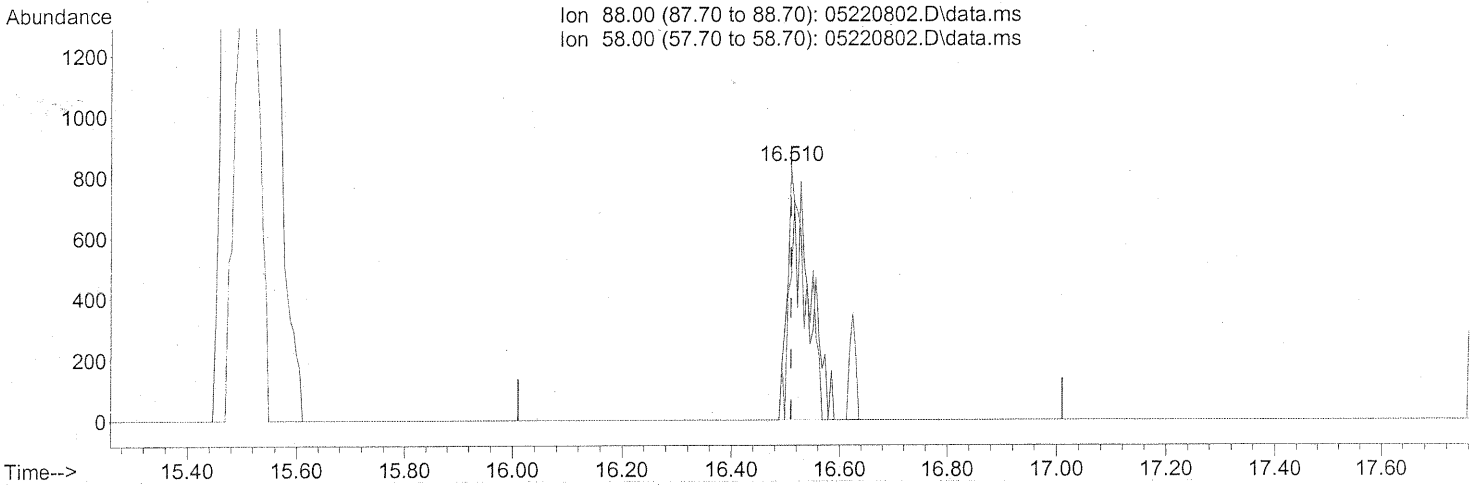
response 974

SPLIT PEAK

Ion	Exp%	Act%
88.00	100	100
58.00	90.10	180.70#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56 am  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(48) 1,4-Dioxane (T)  
 16.510min (+0.000) 0.14ng m  
 response 2194

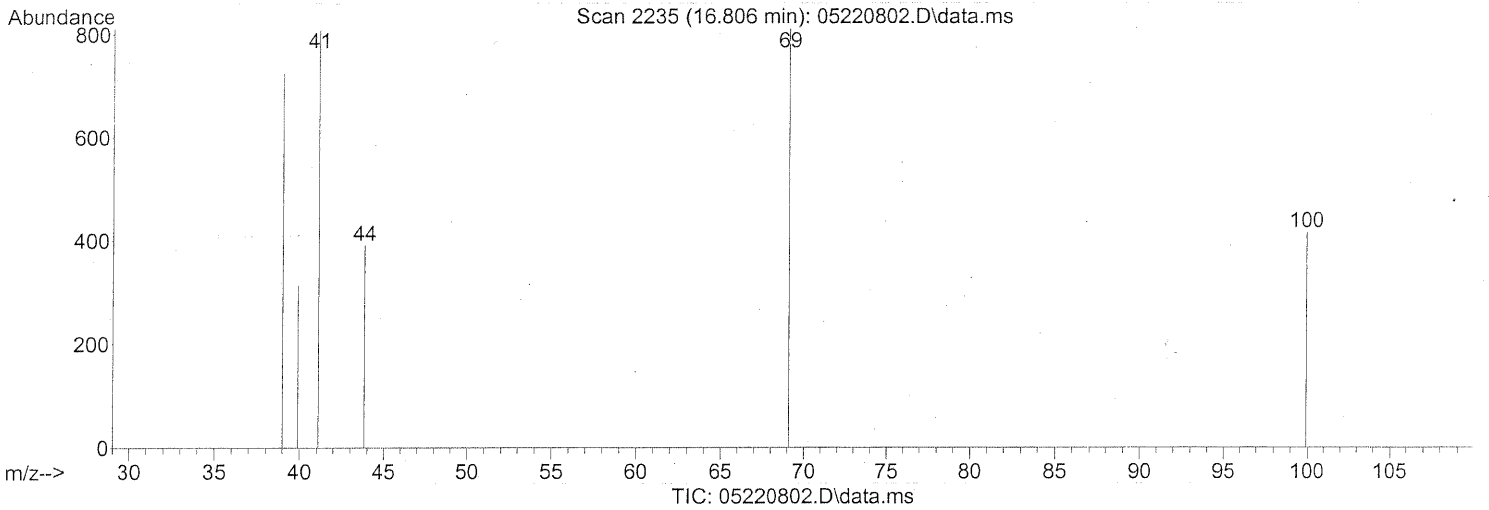
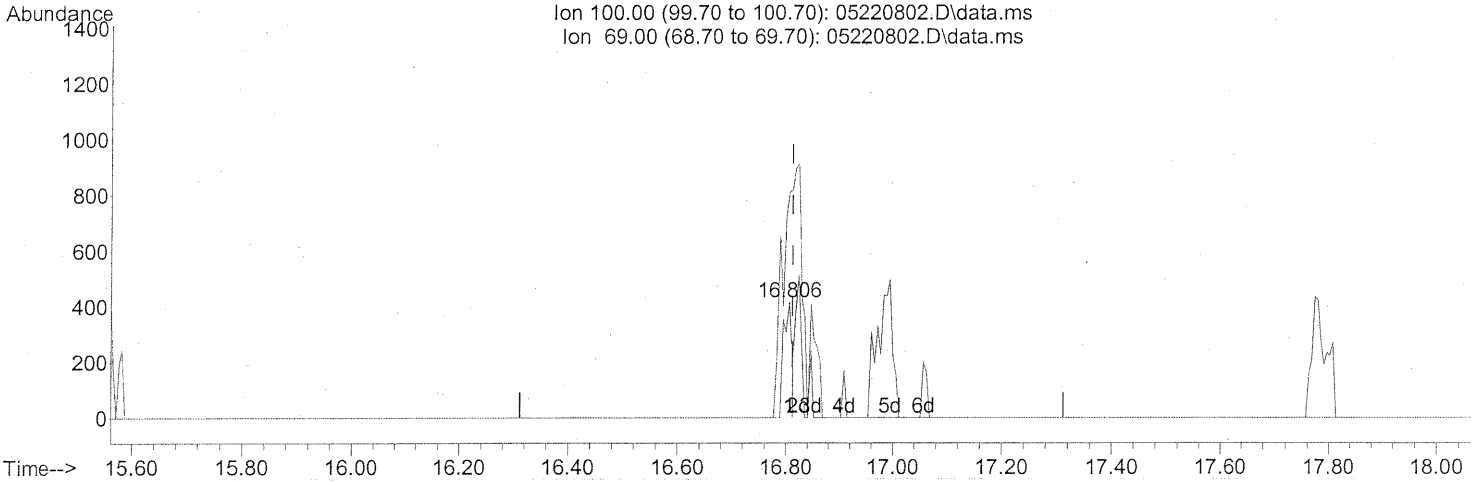
Ion	Exp%	Act%
88.00	100	100
58.00	90.10	80.22
0.00	0.00	0.00
0.00	0.00	0.00

INT: THE WHOLE PEAK  
 Fos/22/08  
 Em 5/22/08

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.806min (-0.006) 0.05ng

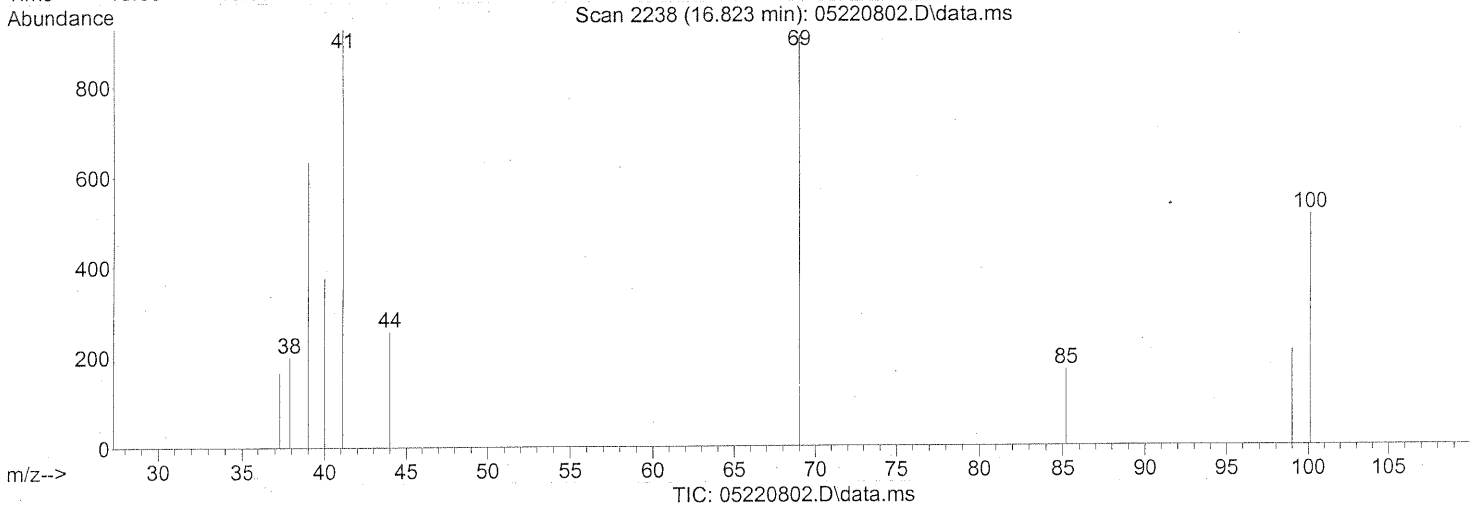
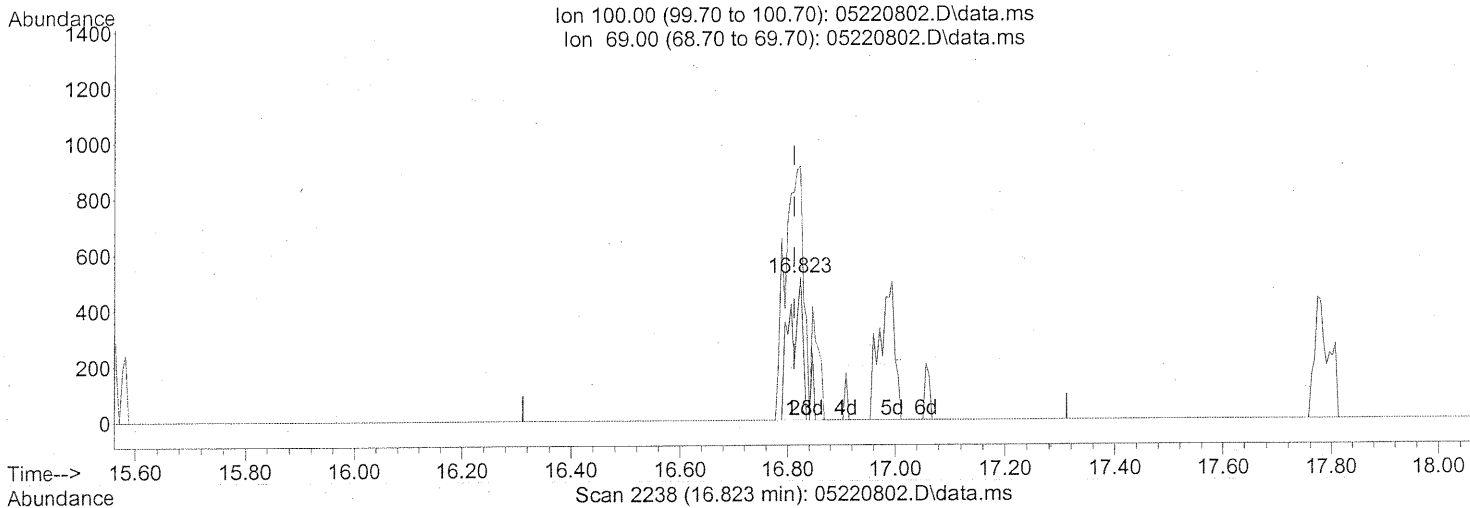
response 431

Ion	Exp%	Act%
100.00	100	100
69.00	259.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220802.D  
Acq On : 22 May 2008 3:56 am  
Operator : RTB  
Sample : 0.1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210809  
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 22 10:24:57 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(50) Methyl Methacrylate (T)

16.823min (+0.011) 0.11ng m

response 897

Ion	Exp%	Act%
100.00	100	100
69.00	259.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK  
Post 22/08  
Em 5/22/08



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37 am  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	390197	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1721246	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	802715	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	697916	22.303	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.20%	✓
57) Toluene-d8 (SS2)	18.92	98	1826728	25.389	ng	-0.01
Spiked Amount	25.000		Recovery	=	101.56%	✓
73) Bromofluorobenzene (SS3)	23.29	174	718304	29.011	ng	0.00
Spiked Amount	25.000		Recovery	=	116.04%	✓

Target Compounds

						Qvalue
2) Propene	4.82	42	18055	0.559	ng	# 78
3) Dichlorodifluoromethane	4.97	85	34472	0.585	ng	97
4) Chloromethane	5.30	50	24413	0.496	ng	99
5) Freon 114	5.54	135	17859	0.619	ng	97
6) Vinyl Chloride	5.74	62	21616	0.472	ng	96
7) 1,3-Butadiene	6.02	54	16619	0.469	ng	# 71
8) Bromomethane	6.49	94	12058	0.548	ng	100
9) Chloroethane	6.84	64	10877	0.573	ng	99
10) Ethanol	7.10	45	10775m	0.489	ng	
11) Acetonitrile	7.45	41	30763	0.531	ng	96
12) Acrolein	7.66	56	8102	0.521	ng	97
13) Acetone	7.88	58	17001	0.787	ng	# 67
14) Trichlorofluoromethane	8.16	101	29926	0.647	ng	99
15) Isopropanol	8.32	45	40731m	0.557	ng	
16) Acrylonitrile	8.63	53	17611	0.525	ng	89
17) 1,1-Dichloroethene	9.17	96	13954	0.648	ng	# 79
18) tert-Butanol	9.27	59	34271m	0.565	ng	
19) Methylene Chloride	9.36	84	14738	0.594	ng	90
20) Allyl Chloride	9.56	41	16325	0.492	ng	98
21) Trichlorotrifluoroethane	9.81	151	14162	0.716	ng	99
22) Carbon Disulfide	9.77	76	49203	0.535	ng	95
23) trans-1,2-Dichloroethene	10.80	61	21380	0.569	ng	86
24) 1,1-Dichloroethane	11.10	63	26702	0.611	ng	96
25) Methyl tert-Butyl Ether	11.20	73	42133	0.587	ng	86
26) Vinyl Acetate	11.37	86	988m	0.230	ng	
27) 2-Butanone	11.70	72	9835	0.649	ng	# 89
28) cis-1,2-Dichloroethene	12.35	61	21172	0.598	ng	81
29) Diisopropyl Ether	12.69	87	10651	0.536	ng	# 87
30) Ethyl Acetate	12.71	61	5838	0.618	ng	85
31) n-Hexane	12.70	57	25549	0.521	ng	87

*P 05/22/08*



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37 am  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	27481	0.754	ng	97
34) Tetrahydrofuran	13.37	72	9521	0.628	ng #	89
35) Ethyl tert-Butyl Ether	13.48	87	15911	0.608	ng #	72
36) 1,2-Dichloroethane	13.89	62	22331	0.619	ng	100
38) 1,1,1-Trichloroethane	14.29	97	23788	0.663	ng	95
39) Isopropyl Acetate	14.84	61	8114	0.518	ng #	36
40) 1-Butanol	14.89	56	11751m	0.500	ng	
41) Benzene	14.98	78	54381	0.596	ng	98
42) Carbon Tetrachloride	15.21	117	20160	0.668	ng	95
43) Cyclohexane	15.41	84	22659	0.671	ng #	71
44) tert-Amyl Methyl Ether	15.87	73	37701	0.580	ng	94
45) 1,2-Dichloropropane	16.20	63	15628	0.597	ng	99
46) Bromodichloromethane	16.45	83	20164	0.649	ng	99
47) Trichloroethene	16.53	130	19130	0.852	ng	94
48) 1,4-Dioxane	16.51	88	10866	0.672	ng #	76
49) Isooctane	16.62	57	60007	0.555	ng	78
50) Methyl Methacrylate	16.80	100	5270	0.636	ng	100
51) n-Heptane	16.98	71	14968	0.592	ng #	78
52) cis-1,3-Dichloropropene	17.73	75	20622	0.580	ng	96
53) 4-Methyl-2-pentanone	17.77	58	13493	0.540	ng	74
54) trans-1,3-Dichloropropene	18.43	75	17672	0.575	ng	100
55) 1,1,2-Trichloroethane	18.67	97	13754	0.625	ng	97
58) Toluene	19.06	91	62960	0.696	ng	98
59) 2-Hexanone	19.37	43	36470	0.542	ng	82
60) Dibromochloromethane	19.60	129	16288	0.747	ng	99
61) 1,2-Dibromoethane	19.93	107	15889	0.748	ng	96
62) Butyl Acetate	20.19	43	39596	0.588	ng	87
63) n-Octane	20.35	57	12094	0.571	ng	80
64) Tetrachloroethene	20.54	166	17828	0.788	ng	98
65) Chlorobenzene	21.41	112	40785	0.728	ng	100
66) Ethylbenzene	21.89	91	67717	0.671	ng	96
67) m- & p-Xylene	22.12	91	111056	1.646	ng	88
68) Bromoform	22.21	173	12902	0.866	ng	100
69) Styrene	22.57	104	38052	0.653	ng	97
70) o-Xylene	22.71	91	55660	0.767	ng	93
71) n-Nonane	22.98	43	33403	0.574	ng #	81
72) 1,1,2,2-Tetrachloroethane	22.68	83	20778	0.600	ng	99
74) Cumene	23.46	105	65915	0.716	ng	100
75) alpha-Pinene	23.96	93	32023	0.654	ng	84
76) n-Propylbenzene	24.10	91	80452	0.653	ng	98
77) 3-Ethyltoluene	24.22	105	65688	0.654	ng	97
78) 4-Ethyltoluene	24.28	105	64603	0.699	ng	100
79) 1,3,5-Trimethylbenzene	24.37	105	56551	0.689	ng	97

1297

*5/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37 am  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:00:36 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	27093	0.623	ng	92
81) 2-Ethyltoluene	24.61	105	63115	0.625	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	58569	0.631	ng	98
83) n-Decane	24.98	57	31433	0.612	ng	88
84) Benzyl Chloride	25.05	91	30371	0.480	ng	96
85) 1,3-Dichlorobenzene	25.07	146	36248	0.721	ng	97
86) 1,4-Dichlorobenzene	25.16	146	35281	0.734	ng	99
87) sec-Butylbenzene	25.21	105	77751	0.714	ng	97
88) p-Isopropyltoluene	25.40	119	65970	0.694	ng	95
89) 1,2,3-Trimethylbenzene	25.40	105	57591	0.631	ng	98
90) 1,2-Dichlorobenzene	25.58	146	34802	0.676	ng	100
91) d-Limonene	25.57	68	20842	0.495	ng	90
92) 1,2-Dibromo-3-Chloropr...	26.11	157	8581	0.629	ng	# 80
93) n-Undecane	26.50	57	32540	0.604	ng	86
94) 1,2,4-Trichlorobenzene	27.63	180	25769	0.807	ng	97
95) Naphthalene	27.77	128	70883	0.691	ng	97
96) n-Dodecane	27.74	57	32740	0.599	ng	87
97) Hexachloro-1,3-butadiene	28.19	225	17105	0.832	ng	98

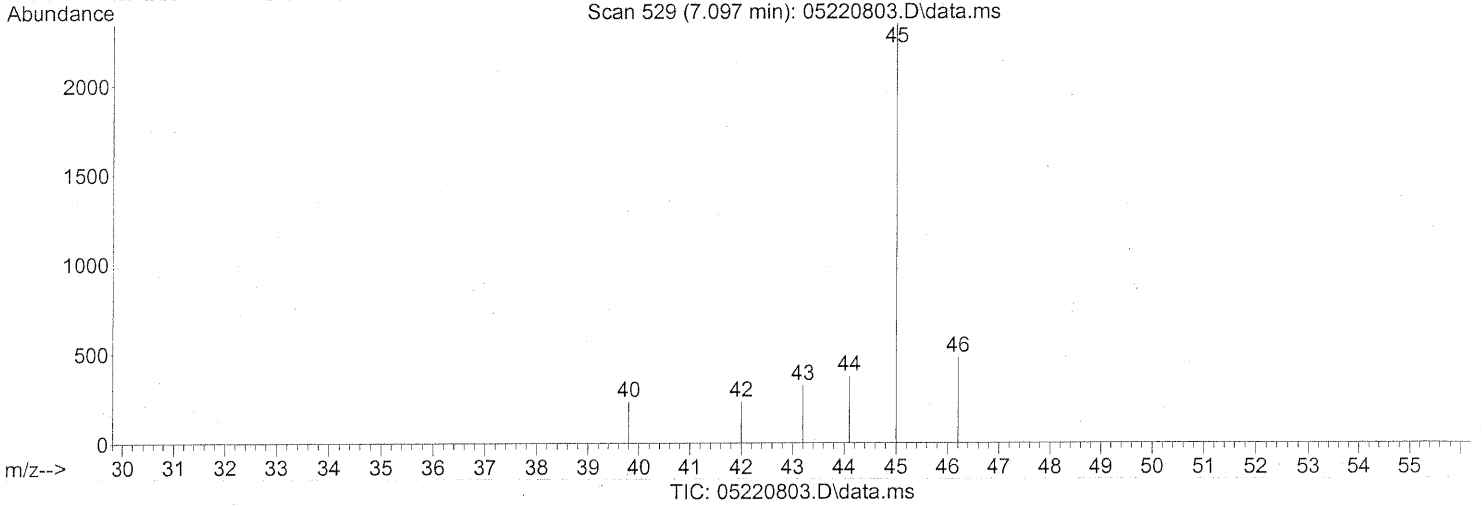
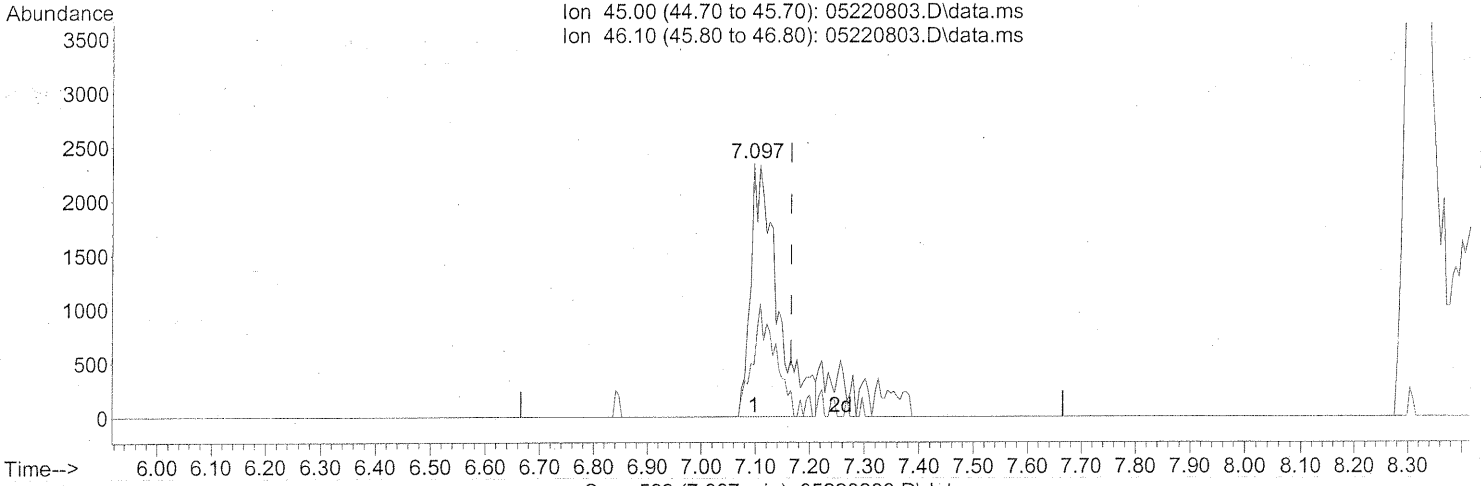
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*05/22/08*

Quantitation Report (Qealr)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.37ng

response 8070

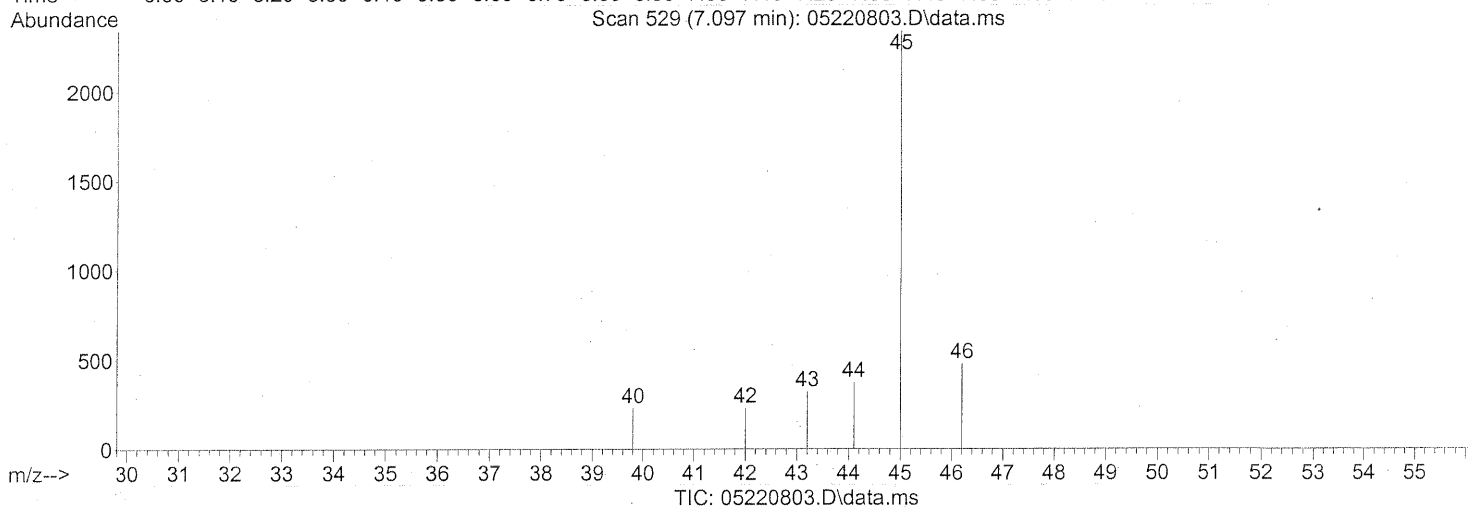
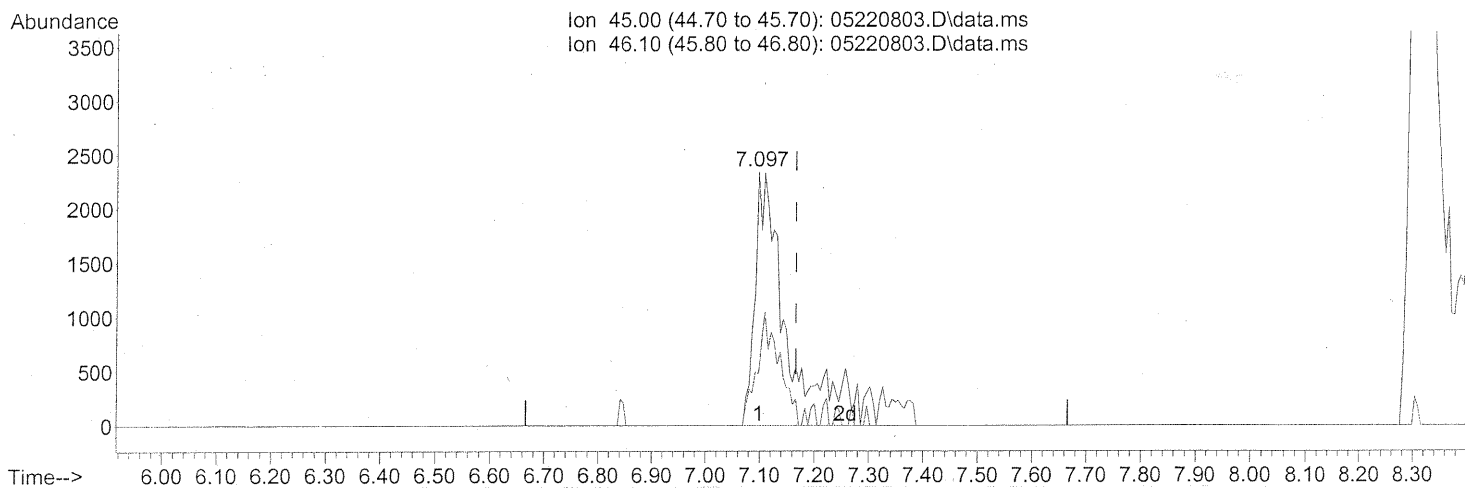
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.37
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.49ng m

response 10775

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	27.99
0.00	0.00	0.00
0.00	0.00	0.00

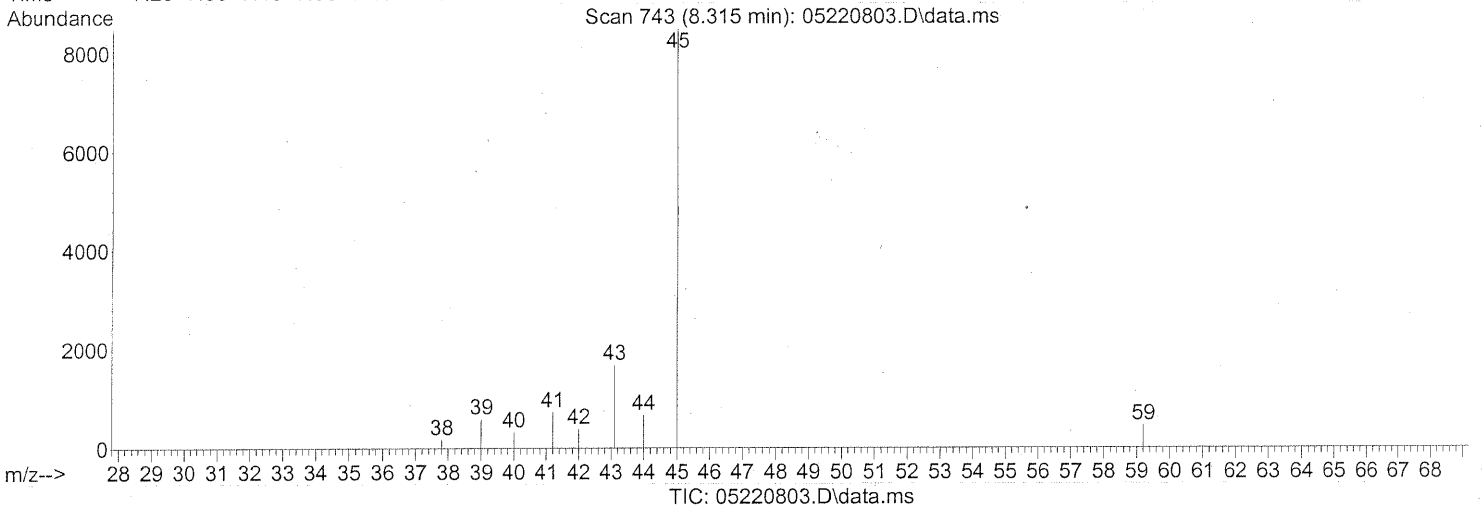
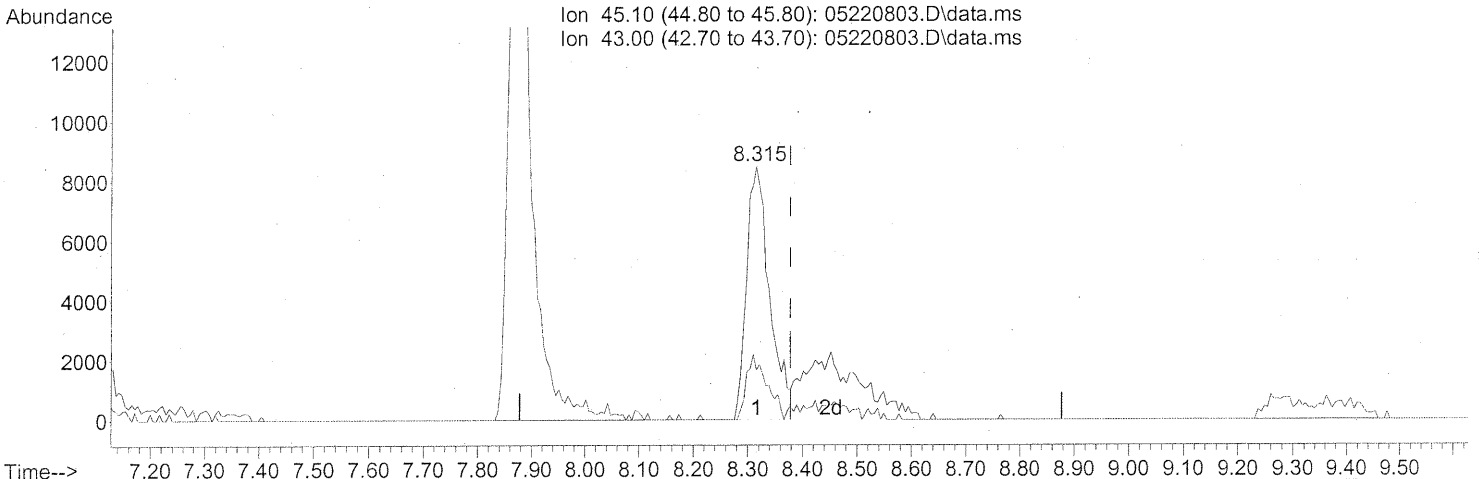
ADDED TAILING

5/22/08

em 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37 am  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(15) Isopropanol (T)

8.315min (-0.062) 0.34ng

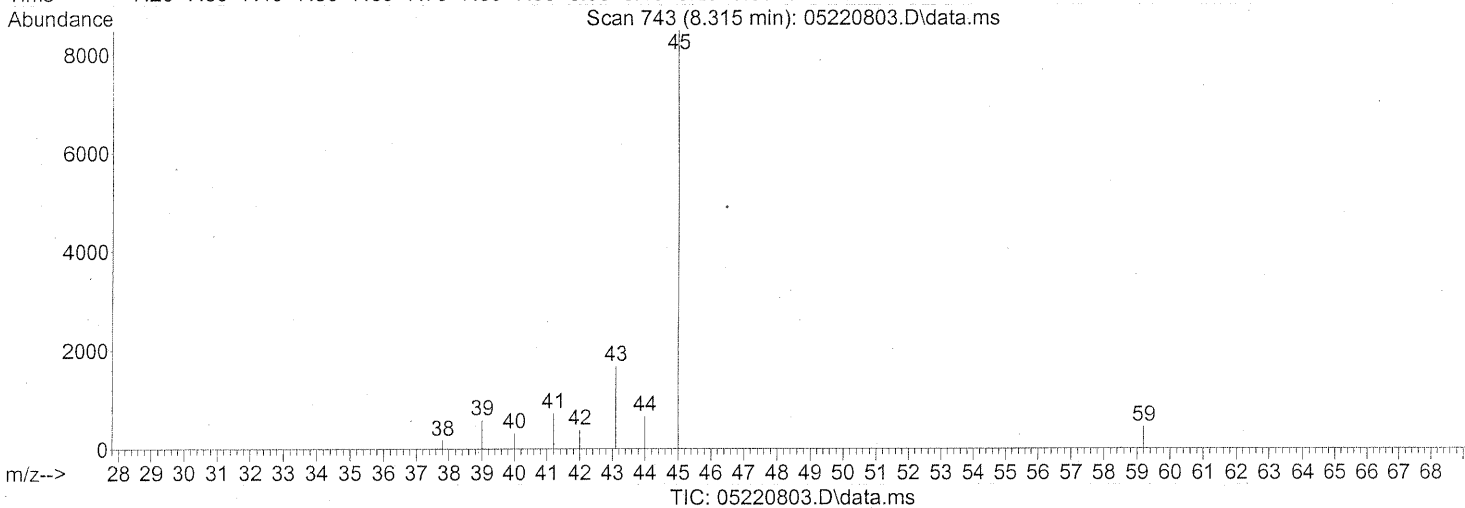
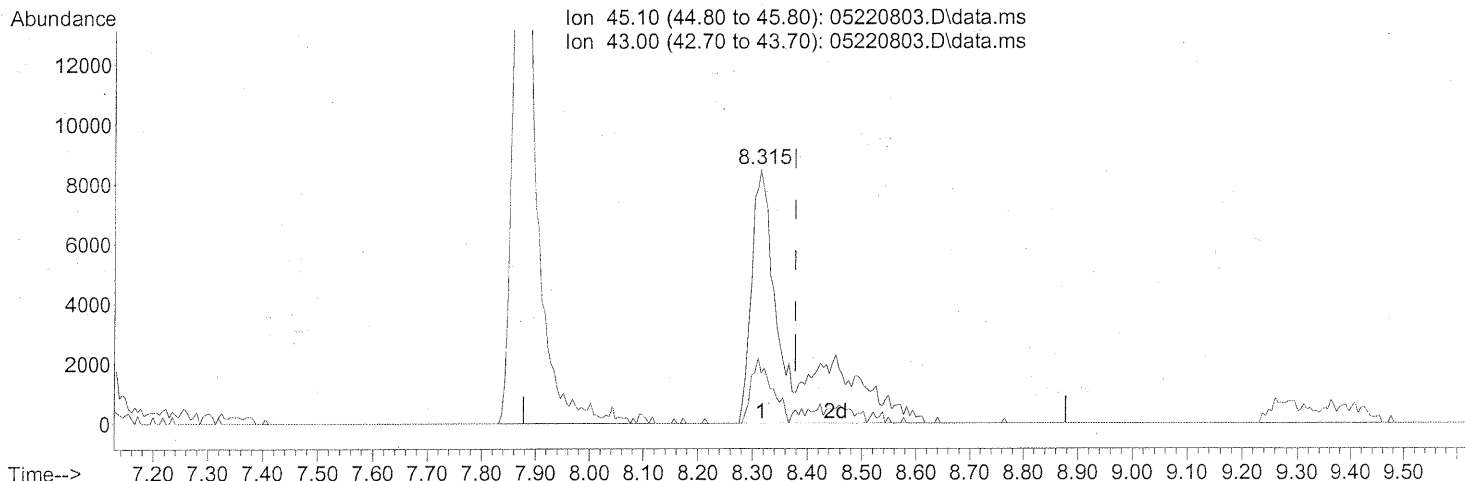
response 24572

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	22.92
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37 am  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(15) Isopropanol (T)  
 8.315min (-0.062) 0.56ng m  
 response 40731

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	13.83
0.00	0.00	0.00
0.00	0.00	0.00

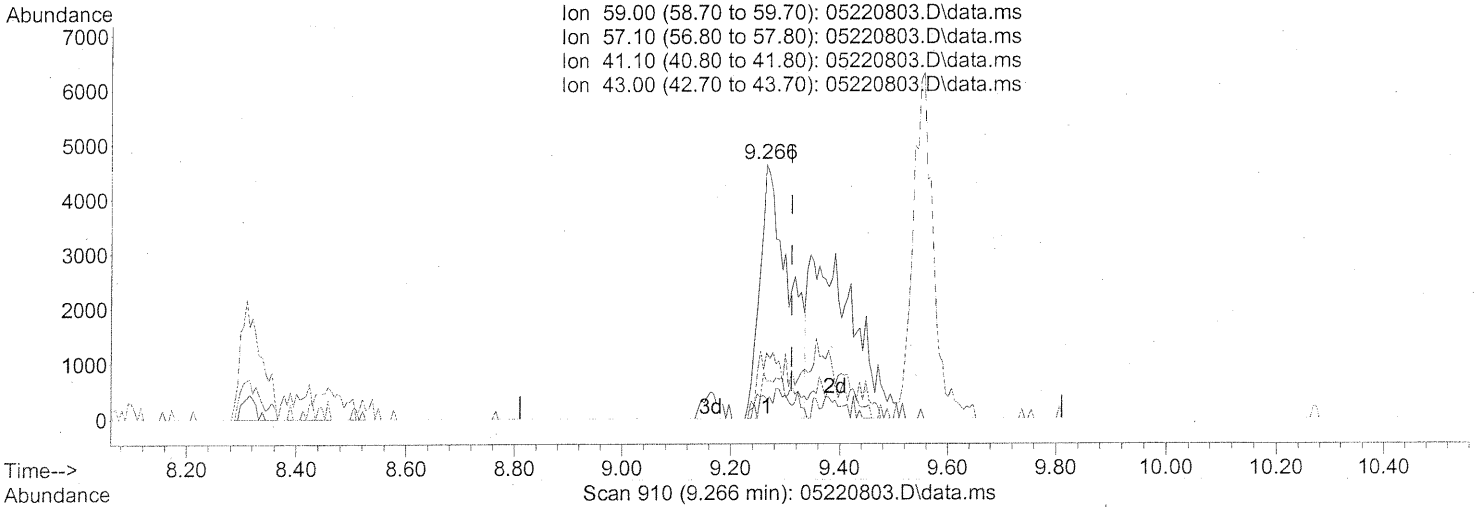
INT. THE WHOLE PEAK

*5/22/08*  
*Em 5/22/08*

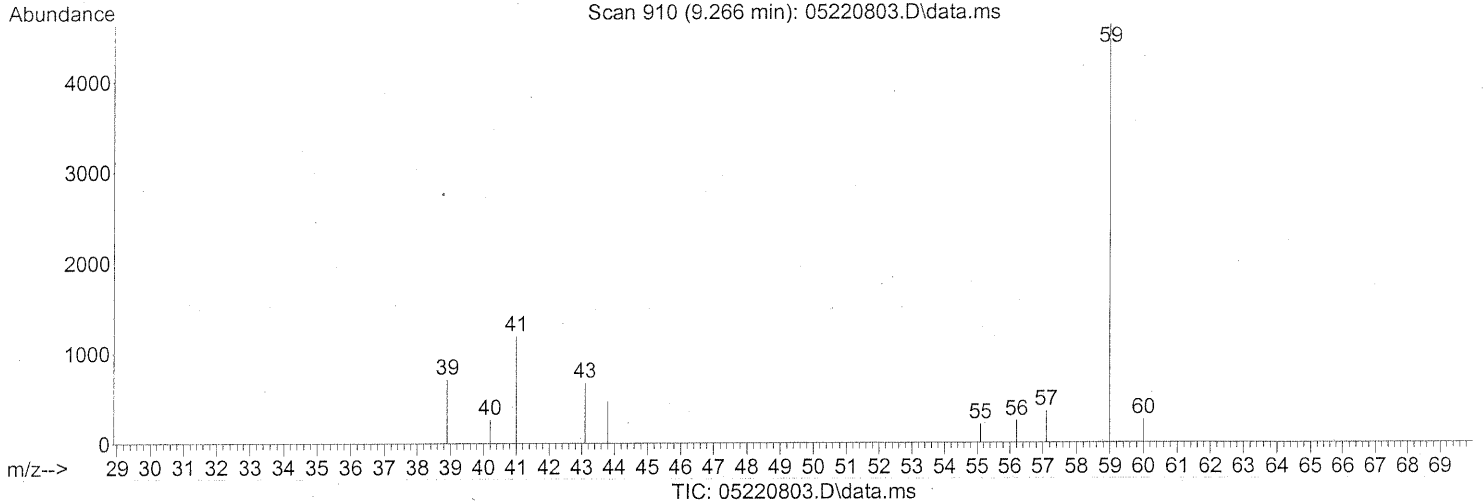
Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



Ion 59.00 (58.70 to 59.70): 05220803.D\data.ms  
Ion 57.10 (56.80 to 57.80): 05220803.D\data.ms  
Ion 41.10 (40.80 to 41.80): 05220803.D\data.ms  
Ion 43.00 (42.70 to 43.70): 05220803.D\data.ms



(18) tert-Butanol (T)

9.266min (-0.045) 0.28ng

response 16829

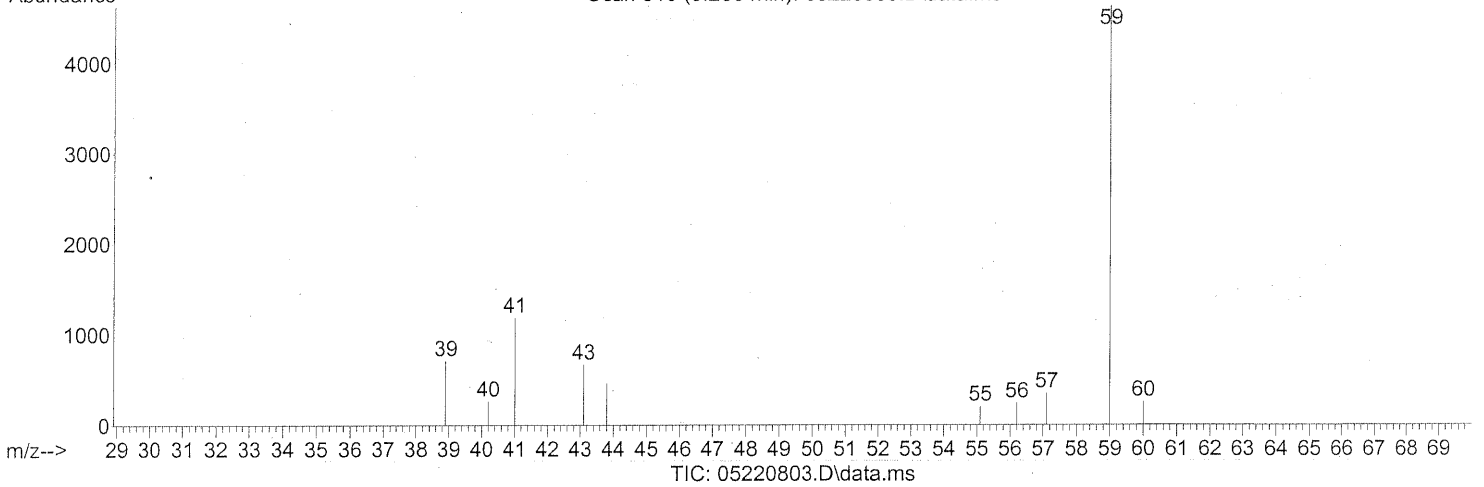
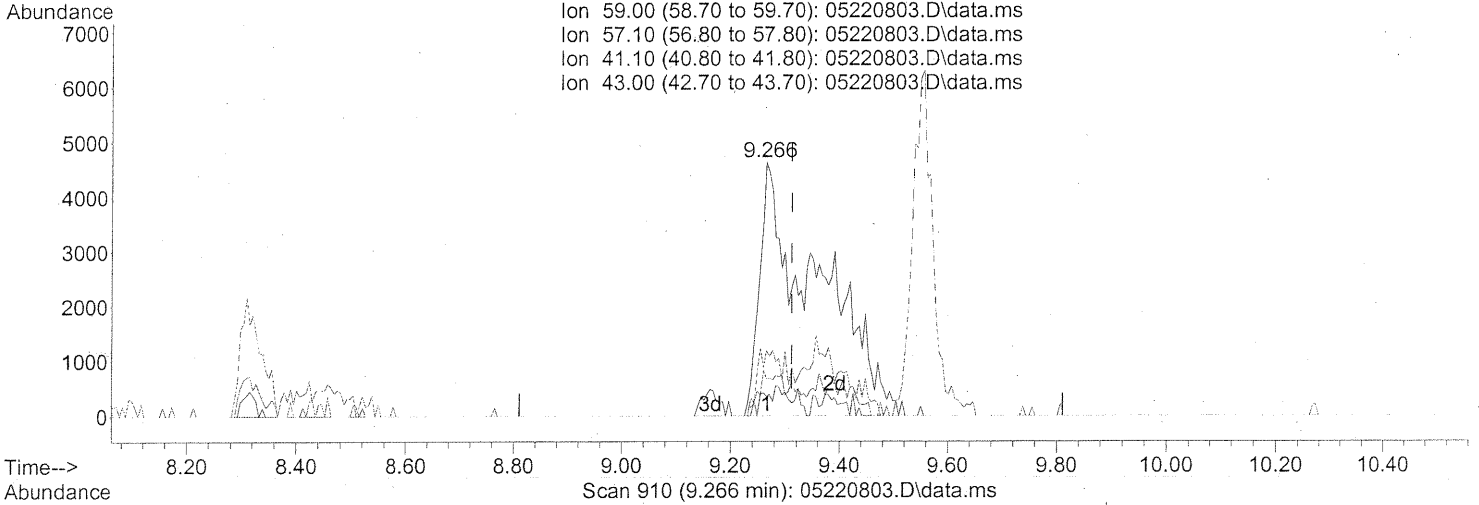
Ion	Exp%	Act%
59.00	100	100
57.10	10.30	4.27
41.10	20.10	27.48
43.00	12.30	14.64

SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(18) tert-Butanol (T)

9.266min (-0.045) 0.57ng m

response 34271

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	2.10
41.10	20.10	13.49
43.00	12.30	7.19

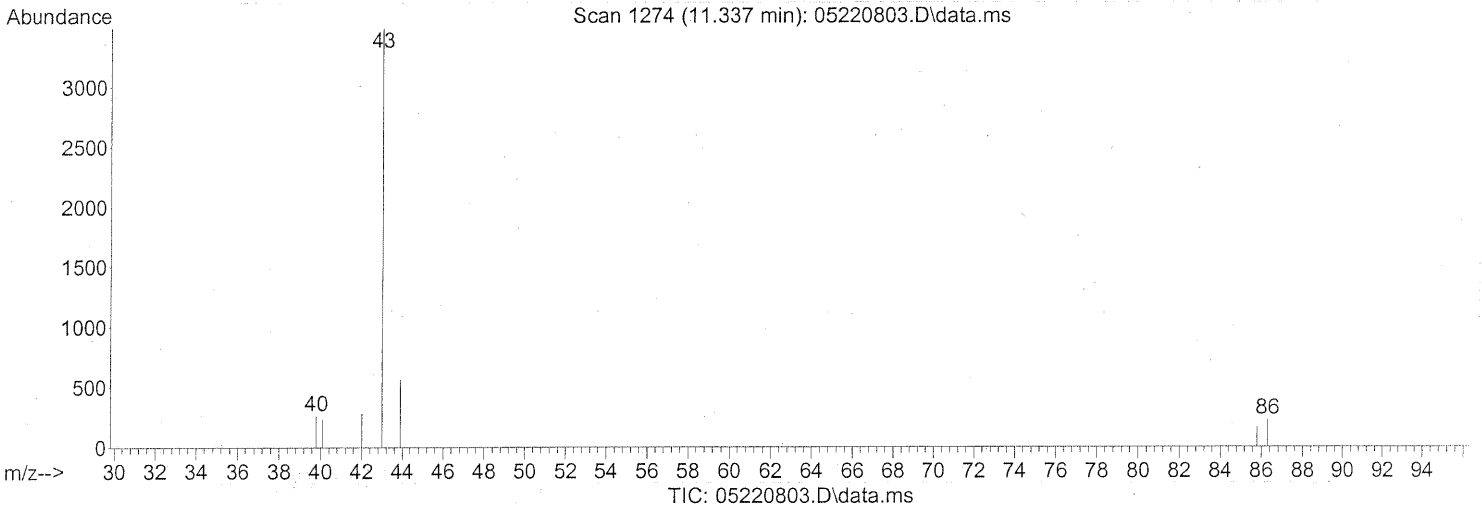
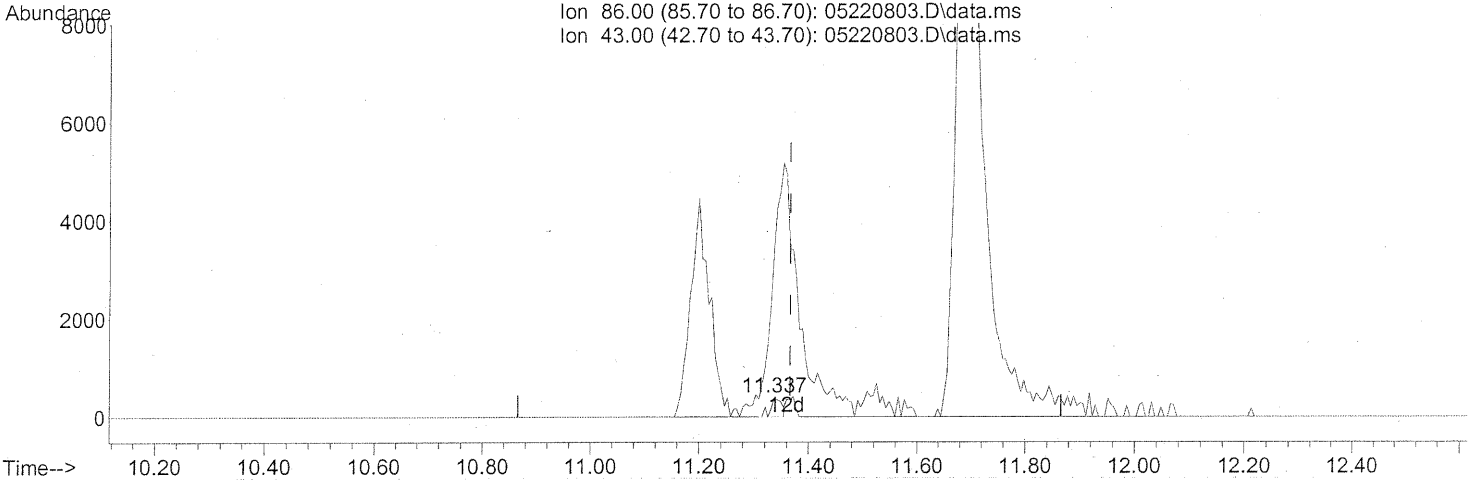
INT. THE WHOLE PEAK  
P 05/22/08  
EM 5/22/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(26) Vinyl Acetate (T)

11.337min (-0.029) 0.13ng

response 550

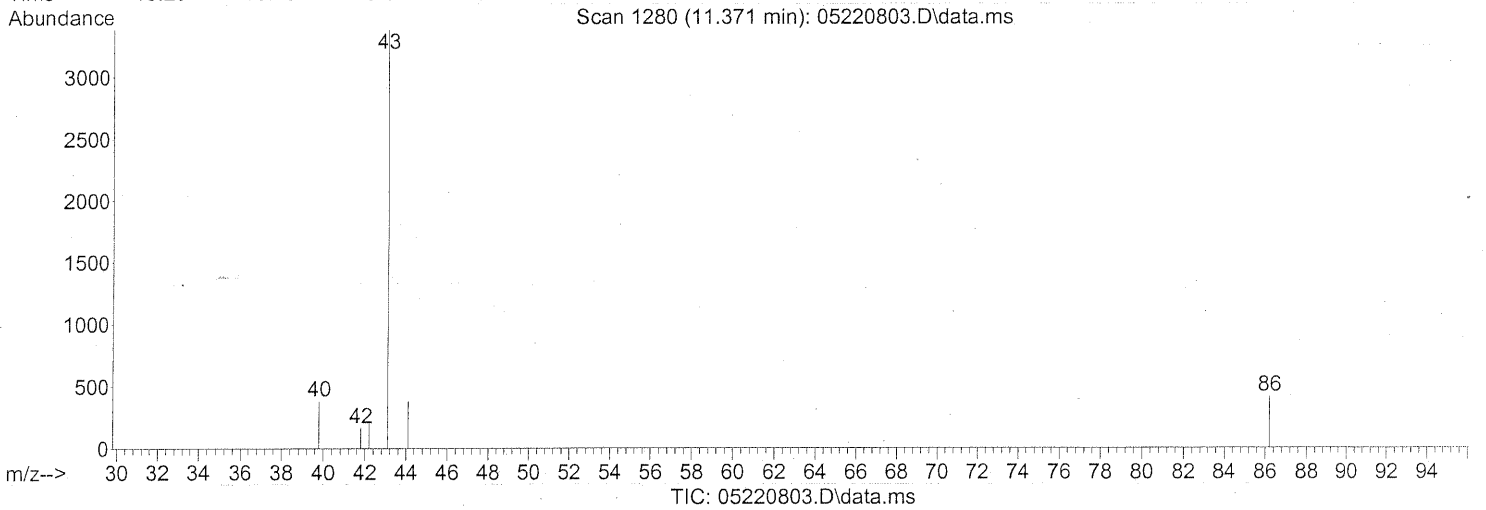
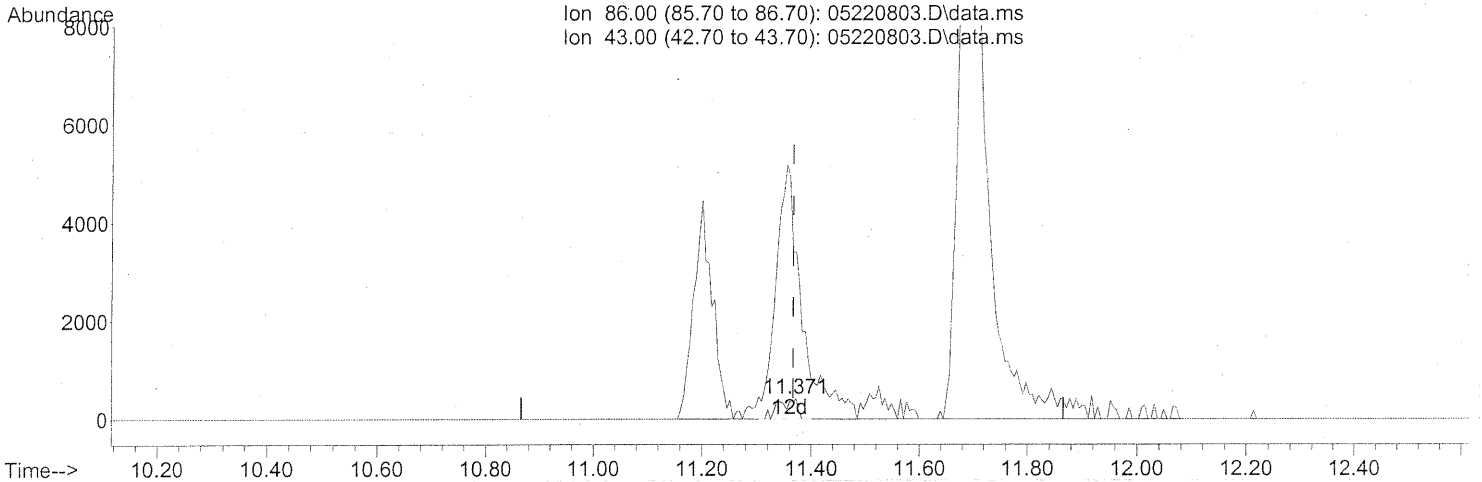
Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SPLIT PEAK

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(26) Vinyl Acetate (T)  
11.371min (+0.005) 0.23ng m

response 988

Ion	Exp%	Act%
86.00	100	100
43.00	1381.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

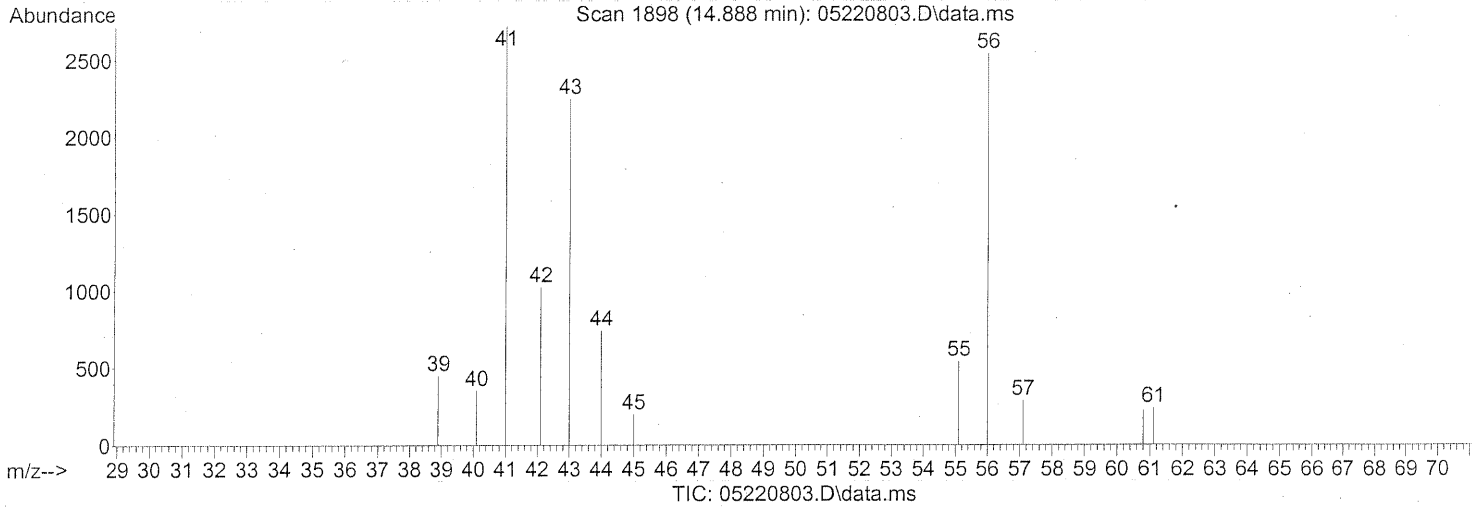
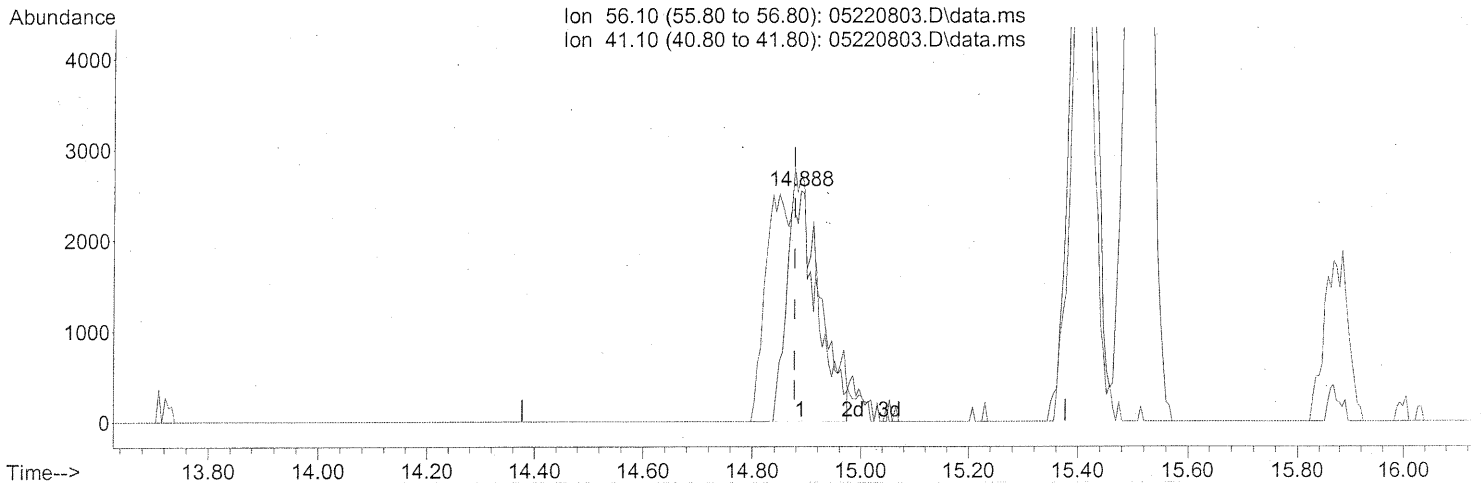
INT. THE WHOLE PEAK

5/22/08

EM 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 10:56:59 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(40) 1-Butanol (T)  
14.888min (+0.011) 0.46ng  
response 10817

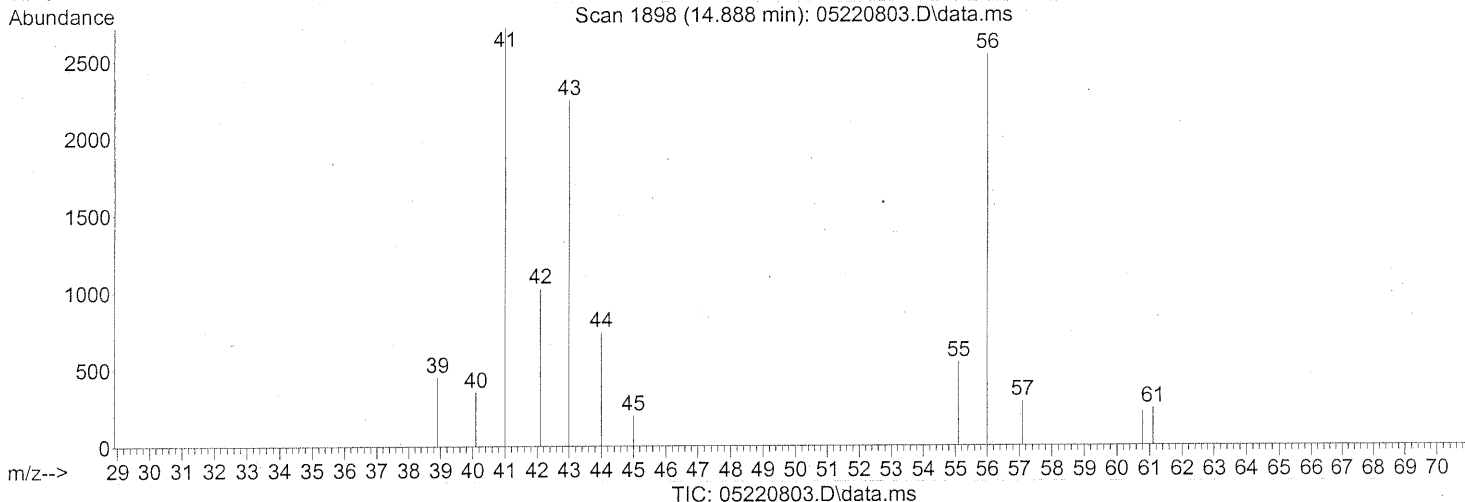
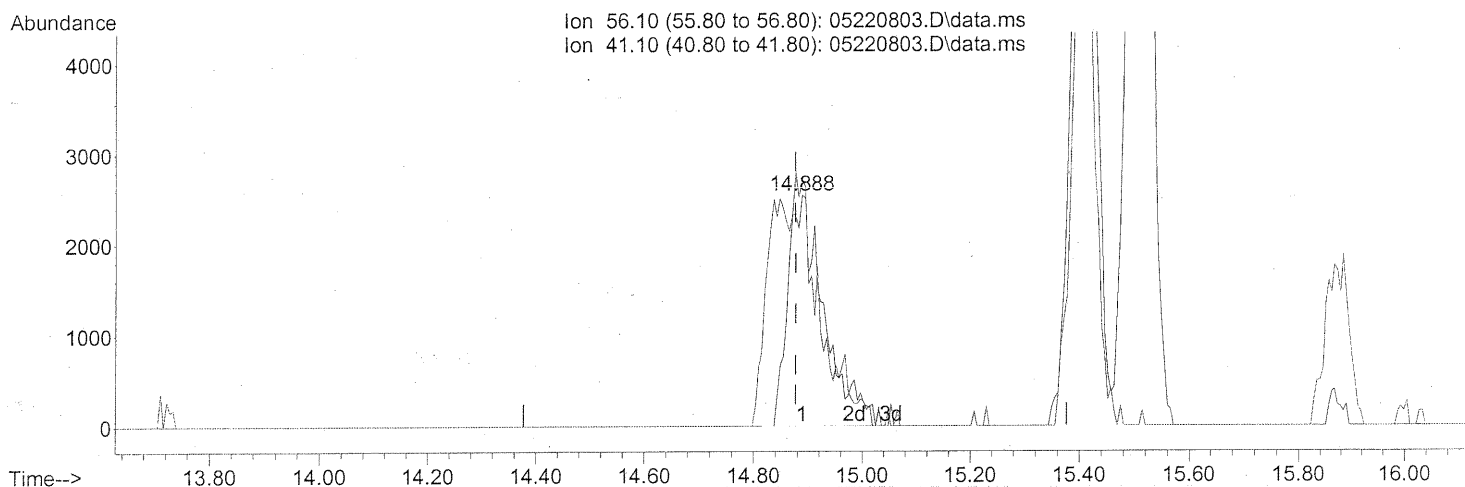
TAILING

Ion	Exp%	Act%
56.10	100	100
41.10	92.00	155.68#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37 am  
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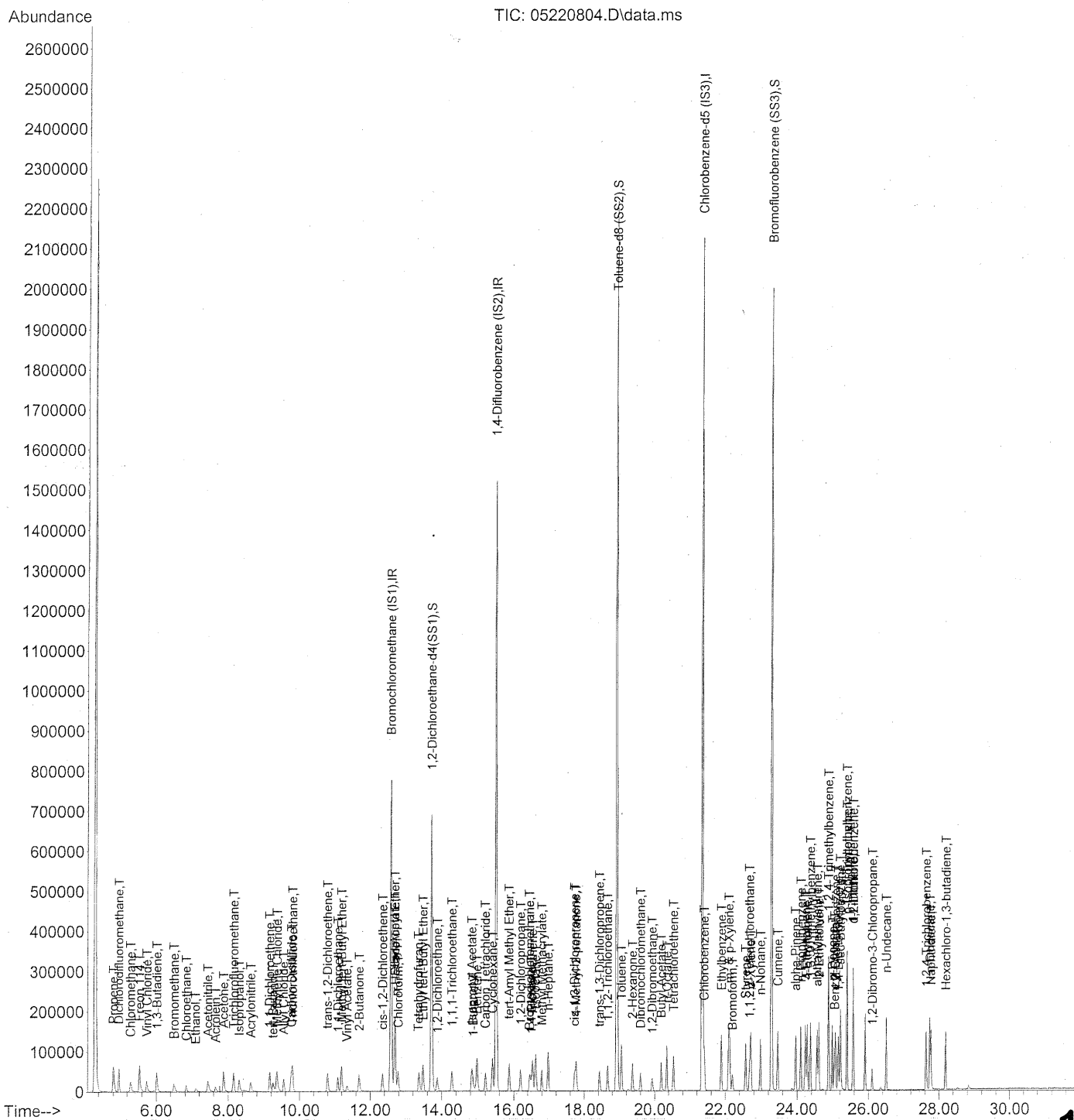
(40) 1-Butanol (T)  
14.888min (+0.011) 0.50ng m  
response 11751

Ion	Exp%	Act%
56.10	100	100
41.10	92.00	143.31#
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
5/22/08  
Em 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	387850	25.000	ng	-0.03
37) 1,4-Difluorobenzene (IS2)	15.51	114	1717781	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	808909	25.000	ng	-0.01

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	693031	22.281	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.12%	✓
57) Toluene-d8 (SS2)	18.92	98	1824190	25.160	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.64%	✓
73) Bromofluorobenzene (SS3)	23.29	174	731633	29.323	ng	0.00
Spiked Amount	25.000		Recovery	=	117.28%	✓

Target Compounds

						Qvalue
2) Propene	4.80	42	31590	0.984	ng	# 80
3) Dichlorodifluoromethane	4.97	85	63836	1.091	ng	98
4) Chloromethane	5.29	50	44241	0.905	ng	98
5) Freon 114	5.54	135	31291	1.092	ng	100
6) Vinyl Chloride	5.74	62	40614	0.892	ng	97
7) 1,3-Butadiene	6.02	54	29257	0.831	ng	# 75
8) Bromomethane	6.50	94	21776	0.996	ng	100
9) Chloroethane	6.83	64	18933	1.004	ng	94
10) Ethanol	7.10	45	19222m	0.878	ng	
11) Acetonitrile	7.44	41	55423	0.963	ng	96
12) Acrolein	7.65	56	14360	0.928	ng	96
13) Acetone	7.87	58	25772	1.200	ng	# 61
14) Trichlorofluoromethane	8.16	101	51253	1.115	ng	98
15) Isopropanol	8.31	45	72885m	1.003	ng	
16) Acrylonitrile	8.64	53	33618	1.009	ng	90
17) 1,1-Dichloroethene	9.16	96	24647	1.151	ng	# 81
18) tert-Butanol	9.25	59	62875	1.043	ng	92
19) Methylene Chloride	9.36	84	27777	1.126	ng	# 78
20) Allyl Chloride	9.55	41	30378	0.922	ng	94
21) Trichlorotrifluoroethane	9.82	151	26014	1.324	ng	94
22) Carbon Disulfide	9.78	76	88300	0.966	ng	96
23) trans-1,2-Dichloroethene	10.80	61	38110	1.021	ng	79
24) 1,1-Dichloroethane	11.09	63	47132	1.085	ng	97
25) Methyl tert-Butyl Ether	11.20	73	77796	1.090	ng	85
26) Vinyl Acetate	11.35	86	2478	0.581	ng	# 93
27) 2-Butanone	11.69	72	16980	1.128	ng	99
28) cis-1,2-Dichloroethene	12.35	61	38263	1.088	ng	86
29) Diisopropyl Ether	12.69	87	18913	0.957	ng	# 84
30) Ethyl Acetate	12.69	61	10672	1.137	ng	79
31) n-Hexane	12.71	57	46629	0.956	ng	91

1310

05/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.78	83	46595	1.287	ng	100
34) Tetrahydrofuran	13.35	72	16796	1.115	ng	# 92
35) Ethyl tert-Butyl Ether	13.48	87	27643	1.063	ng	# 77
36) 1,2-Dichloroethane	13.89	62	39420	1.099	ng	98
38) 1,1,1-Trichloroethane	14.29	97	45629	1.275	ng	95
39) Isopropyl Acetate	14.84	61	13612	0.871	ng	# 22
40) 1-Butanol	14.87	56	19777	0.844	ng	# 36
41) Benzene	14.97	78	98158	1.077	ng	99
42) Carbon Tetrachloride	15.21	117	37159	1.233	ng	99
43) Cyclohexane	15.41	84	39849	1.182	ng	# 75
44) tert-Amyl Methyl Ether	15.87	73	64909	1.001	ng	94
45) 1,2-Dichloropropane	16.20	63	26711	1.023	ng	97
46) Bromodichloromethane	16.45	83	35298	1.139	ng	97
47) Trichloroethene	16.53	130	31767	1.417	ng	100
48) 1,4-Dioxane	16.50	88	19341	1.199	ng	# 77
49) Isooctane	16.62	57	108788	1.008	ng	79
50) Methyl Methacrylate	16.80	100	8739	1.056	ng	# 82
51) n-Heptane	16.98	71	26789	1.061	ng	# 83
52) cis-1,3-Dichloropropene	17.72	75	35922	1.012	ng	100
53) 4-Methyl-2-pentanone	17.77	58	24393	0.979	ng	78
54) trans-1,3-Dichloropropene	18.43	75	33739	1.100	ng	98
55) 1,1,2-Trichloroethane	18.67	97	24090	1.098	ng	93
58) Toluene	19.06	91	109766	1.205	ng	97
59) 2-Hexanone	19.37	43	71227	1.050	ng	79
60) Dibromochloromethane	19.60	129	29309	1.334	ng	97
61) 1,2-Dibromoethane	19.93	107	29150	1.361	ng	99
62) Butyl Acetate	20.19	43	72888	1.074	ng	86
63) n-Octane	20.35	57	23440	1.098	ng	89
64) Tetrachloroethene	20.54	166	31031	1.361	ng	98
65) Chlorobenzene	21.40	112	75334	1.335	ng	98
66) Ethylbenzene	21.89	91	123937	1.218	ng	95
67) m- & p-Xylene	22.11	91	196019	2.883	ng	90
68) Bromoform	22.21	173	23803	1.585	ng	98
69) Styrene	22.57	104	71994	1.227	ng	97
70) o-Xylene	22.71	91	99714	1.363	ng	92
71) n-Nonane	22.98	43	59725	1.019	ng	# 81
72) 1,1,2,2-Tetrachloroethane	22.68	83	40131	1.149	ng	95
74) Cumene	23.46	105	119013	1.282	ng	98
75) alpha-Pinene	23.96	93	59293	1.202	ng	94
76) n-Propylbenzene	24.10	91	148255	1.193	ng	98
77) 3-Ethyltoluene	24.23	105	115484	1.141	ng	100
78) 4-Ethyltoluene	24.28	105	124428	1.335	ng	98
79) 1,3,5-Trimethylbenzene	24.37	105	104662	1.265	ng	98

Data Path : J:\MS13\DATA\2008\_05\22\  
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 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:05:26 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	51478	1.174	ng	95
81) 2-Ethyltoluene	24.61	105	118434	1.164	ng	98
82) 1,2,4-Trimethylbenzene	24.88	105	108583	1.161	ng	99
83) n-Decane	24.98	57	55990	1.083	ng	86
84) Benzyl Chloride	25.05	91	60901	0.955	ng	93
85) 1,3-Dichlorobenzene	25.08	146	65743	1.298	ng	96
86) 1,4-Dichlorobenzene	25.15	146	66572	1.374	ng	99
87) sec-Butylbenzene	25.21	105	137114	1.249	ng	97
88) p-Isopropyltoluene	25.39	119	125564	1.311	ng	94
89) 1,2,3-Trimethylbenzene	25.40	105	106454	1.157	ng	97
90) 1,2-Dichlorobenzene	25.57	146	64179	1.237	ng	99
91) d-Limonene	25.57	68	40763	0.961	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.11	157	17133	1.246	ng	# 85
93) n-Undecane	26.50	57	59190	1.090	ng	86
94) 1,2,4-Trichlorobenzene	27.63	180	46517	1.446	ng	97
95) Naphthalene	27.77	128	137258	1.327	ng	97
96) n-Dodecane	27.74	57	58398	1.060	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	30742	1.484	ng	99

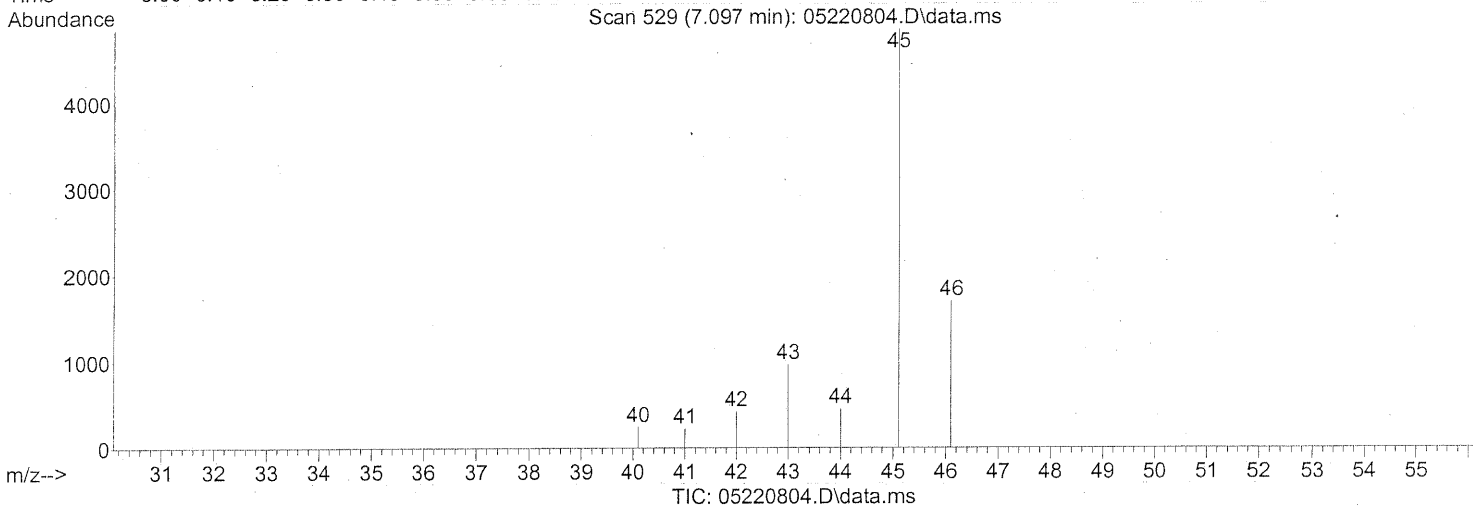
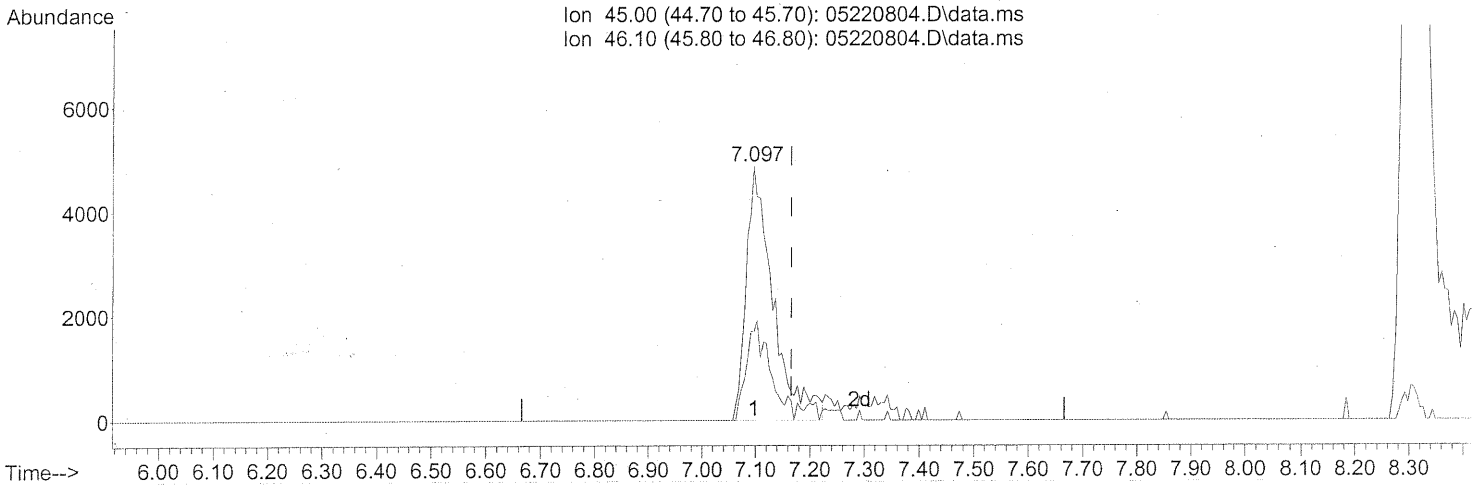
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*5/22/08*



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
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 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.76ng

response 16650

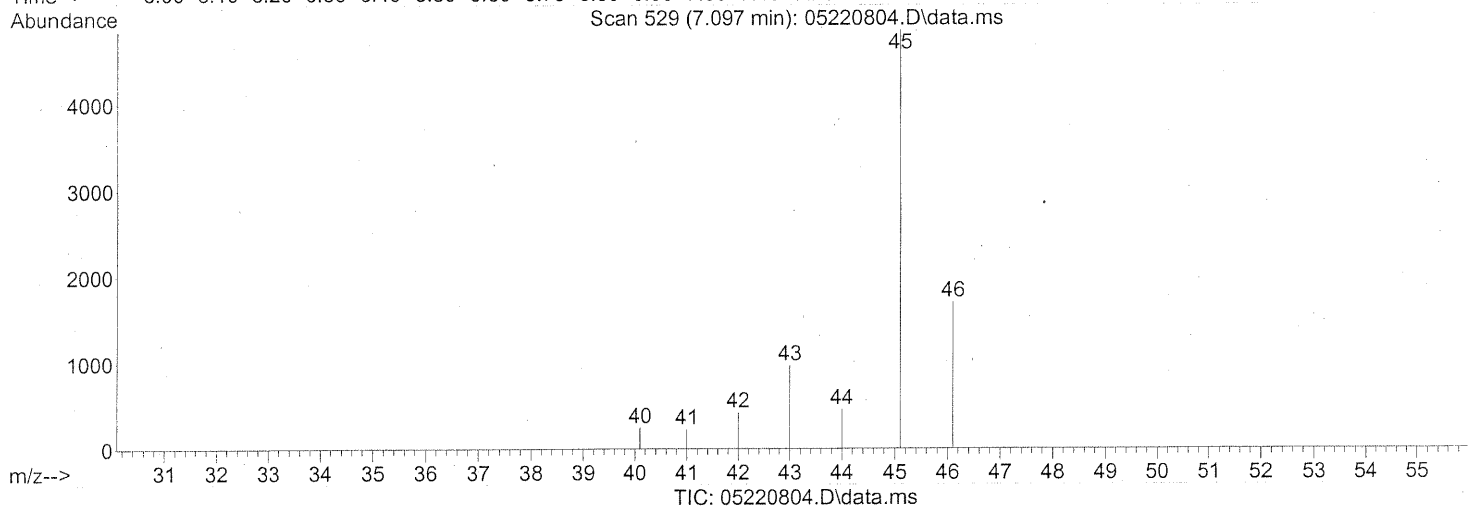
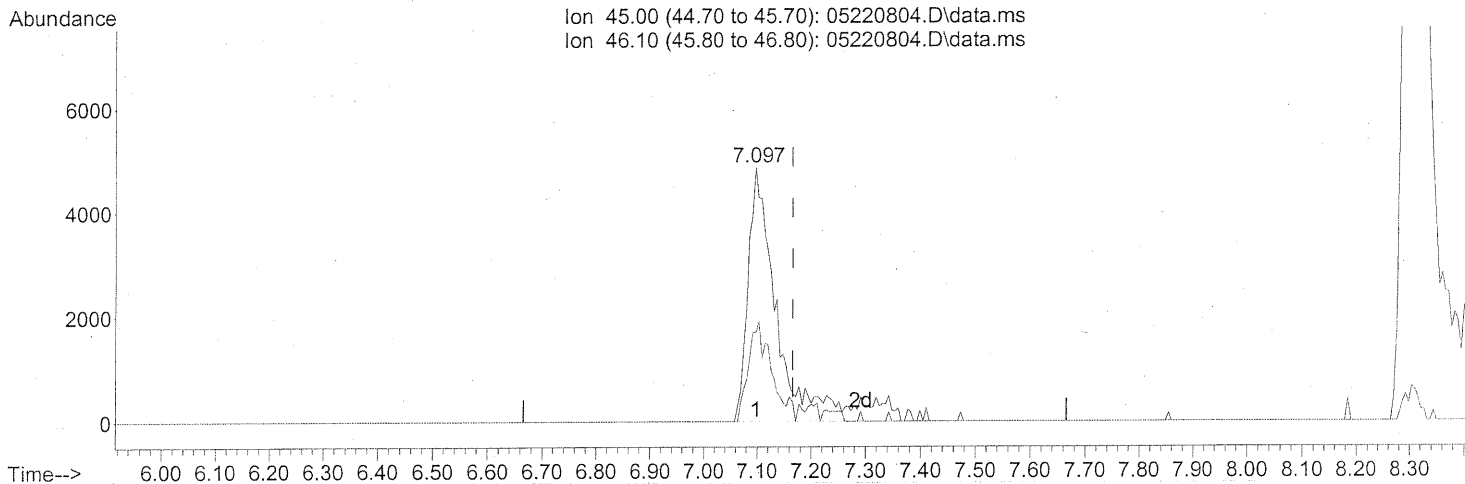
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.31
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



(10) Ethanol (T)

7.097min (-0.069) 0.88ng m

response 19222

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.72
0.00	0.00	0.00
0.00	0.00	0.00

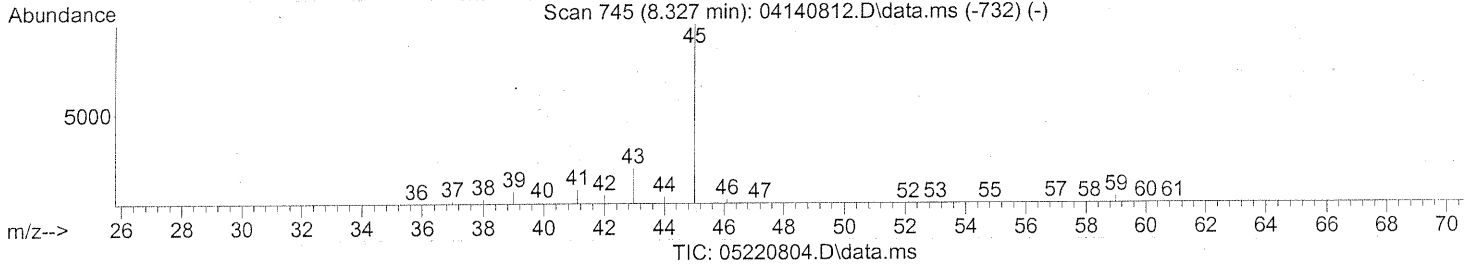
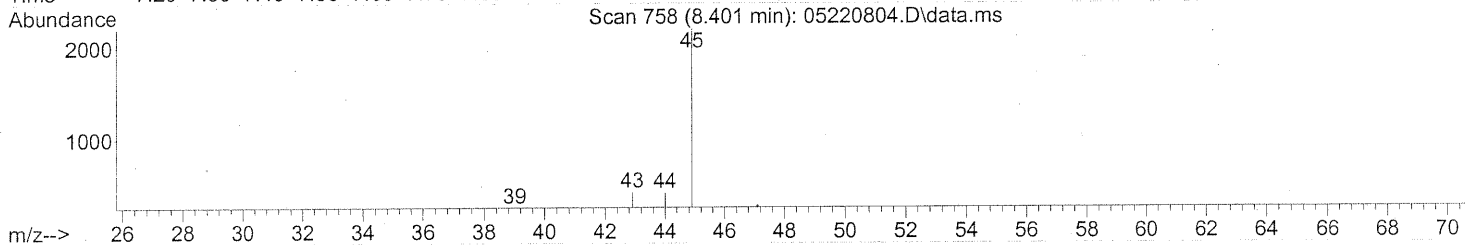
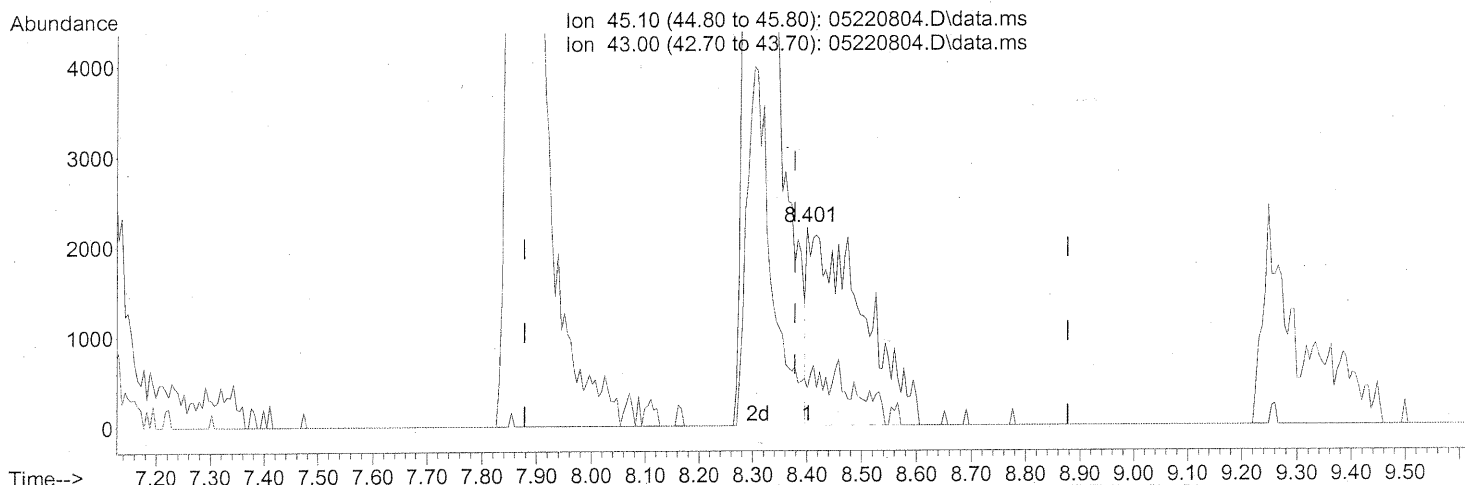
ADDED TAILING

5/22/08

can 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18 am  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration



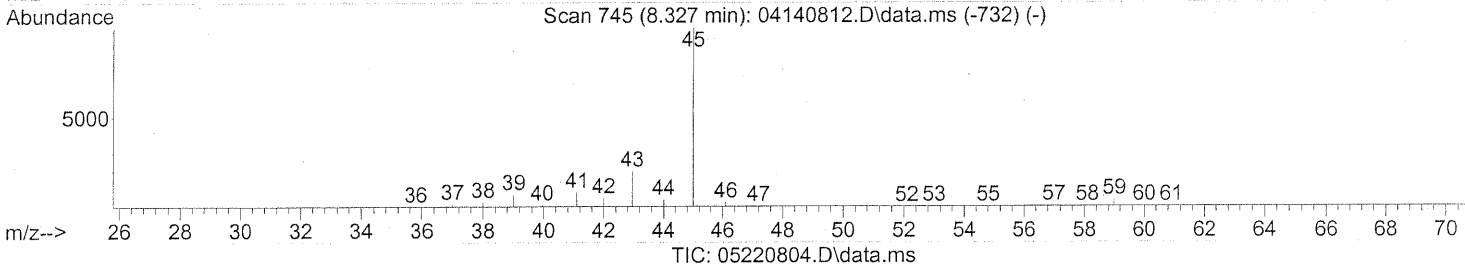
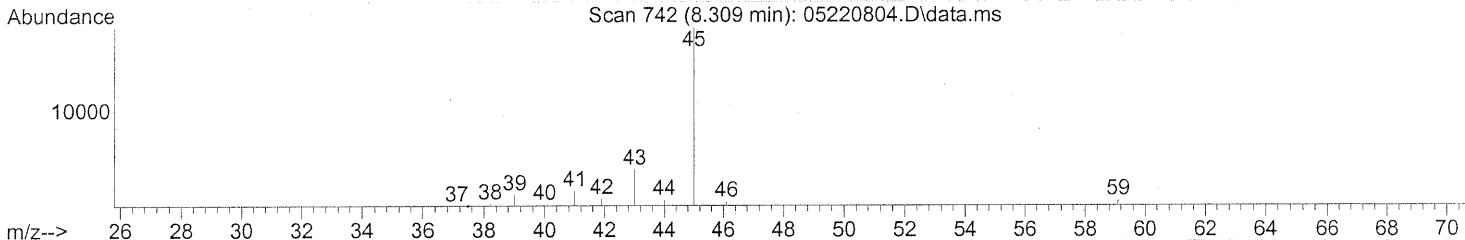
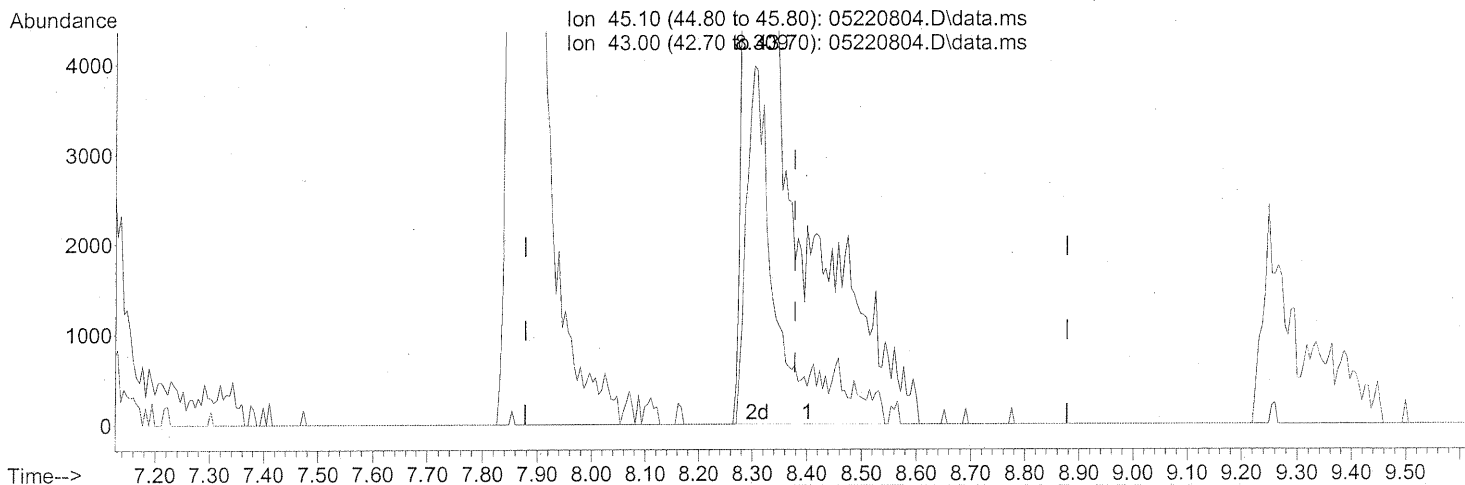
(15) Isopropanol (T)  
 8.401min (+0.023) 0.21ng  
 response 15270

SPLIT PEAK

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	5.21
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220804.D  
Acq On : 22 May 2008 5:18 am  
Operator : RTB  
Sample : 1ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:02:41 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



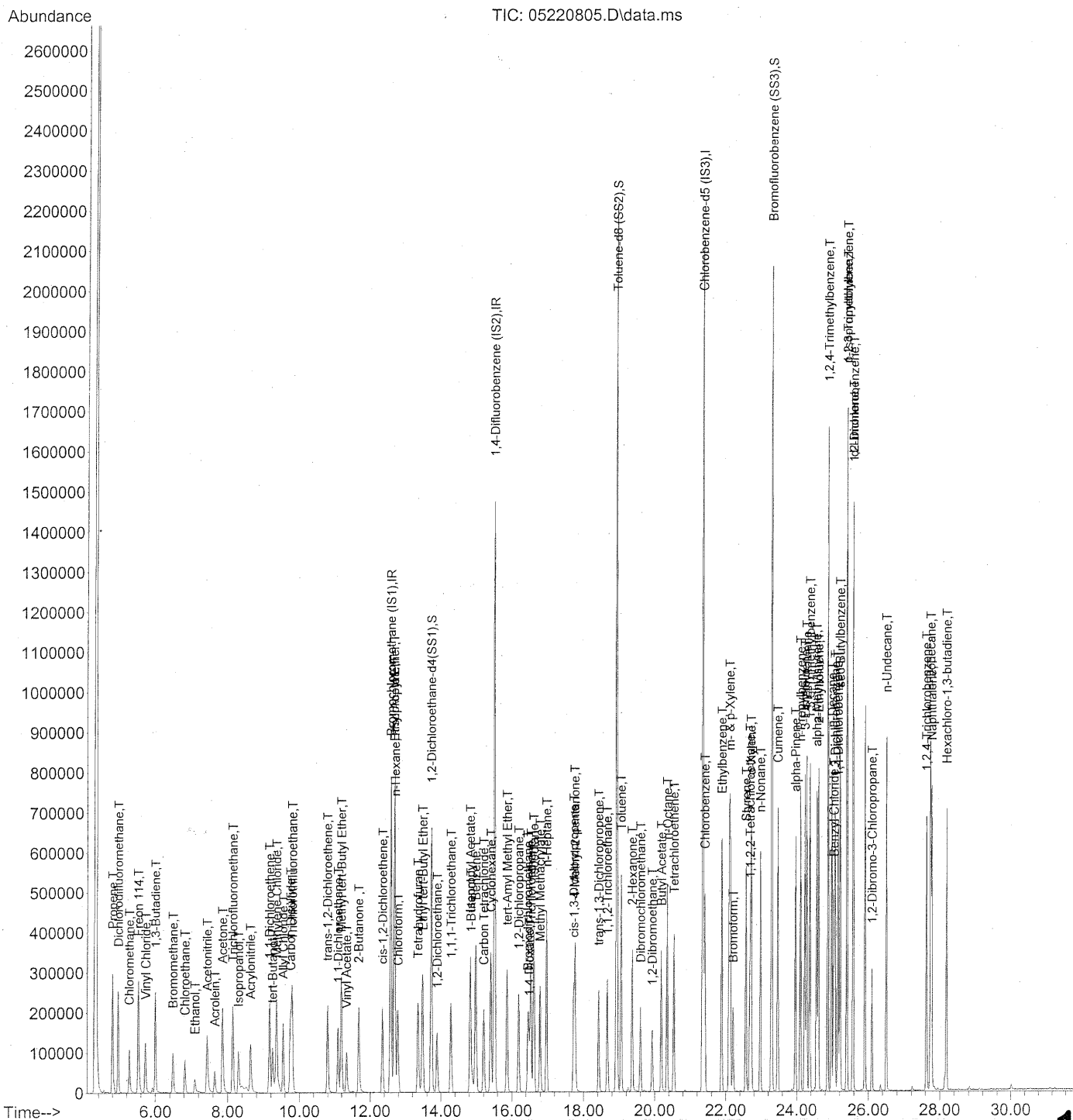
(15) Isopropanol (T)  
8.309min (-0.068) 1.00ng m  
response 72885

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	1.09
0.00	0.00	0.00
0.00	0.00	0.00

INT. THE WHOLE PEAK  
8/05/22/08  
Tom 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220805.D  
Acq On : 22 May 2008 5:58 am  
Operator : RTB  
Sample : 5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220805.D  
 Acq On : 22 May 2008 5:58 am  
 Operator : RTB  
 Sample : 5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	392159	25.000	ng	-0.02
37) 1,4-Difluorobenzene (IS2)	15.51	114	1692913	25.000	ng	-0.02
56) Chlorobenzene-d5 (IS3)	21.35	82	804687	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.73	65	670984	21.335	ng	-0.02
Spiked Amount	25.000		Recovery =	85.36%	✓	
57) Toluene-d8 (SS2)	18.93	98	1810051	25.096	ng	0.00
Spiked Amount	25.000		Recovery =	100.40%	✓	
73) Bromofluorobenzene (SS3)	23.29	174	741734	29.884	ng	0.00
Spiked Amount	25.000		Recovery =	119.52%	✓	

Target Compounds

						Qvalue
2) Propene	4.80	42	143507	4.421	ng	87
3) Dichlorodifluoromethane	4.96	85	277418	4.688	ng	99
4) Chloromethane	5.28	50	161479	3.265	ng	96
5) Freon 114	5.53	135	137052	4.730	ng	100
6) Vinyl Chloride	5.73	62	174777	3.797	ng	96
7) 1,3-Butadiene	6.00	54	142395	4.001	ng	# 77
8) Bromomethane	6.49	94	95601	4.327	ng	99
9) Chloroethane	6.82	64	85760	4.498	ng	94
10) Ethanol	7.10	45	81383m	3.677	ng	
11) Acetonitrile	7.43	41	254835	4.381	ng	96
12) Acrolein	7.65	56	63562	4.064	ng	98
13) Acetone	7.86	58	102750	4.733	ng	# 56
14) Trichlorofluoromethane	8.14	101	236616	5.089	ng	97
15) Isopropanol	8.30	45	286440	3.899	ng	97
16) Acrylonitrile	8.63	53	152877	4.539	ng	99
17) 1,1-Dichloroethene	9.16	96	113381	5.236	ng	# 77
18) tert-Butanol	9.24	59	279157	4.582	ng	92
19) Methylene Chloride	9.36	84	118026	4.733	ng	84
20) Allyl Chloride	9.54	41	160353	4.813	ng	97
21) Trichlorotrifluoroethane	9.81	151	115537	5.816	ng	94
22) Carbon Disulfide	9.76	76	404136	4.371	ng	97
23) trans-1,2-Dichloroethene	10.79	61	178894	4.740	ng	83
24) 1,1-Dichloroethane	11.10	63	212706	4.842	ng	95
25) Methyl tert-Butyl Ether	11.19	73	356345	4.939	ng	86
26) Vinyl Acetate	11.34	86	15989	3.707	ng	# 92
27) 2-Butanone	11.67	72	79090	5.195	ng	98
28) cis-1,2-Dichloroethene	12.34	61	170613	4.797	ng	85
29) Diisopropyl Ether	12.68	87	89599	4.483	ng	# 88
30) Ethyl Acetate	12.68	61	49302	5.195	ng	81
31) n-Hexane	12.70	57	219324	4.447	ng	89

*Pos/22/04*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220805.D  
 Acq On : 22 May 2008 5:58 am  
 Operator : RTB  
 Sample : 5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	211901	5.787	ng	97
34) Tetrahydrofuran	13.35	72	76042	4.994	ng	95
35) Ethyl tert-Butyl Ether	13.48	87	129652	4.932	ng #	75
36) 1,2-Dichloroethane	13.89	62	177196	4.886	ng	98
38) 1,1,1-Trichloroethane	14.29	97	199328	5.651	ng	97
39) Isopropyl Acetate	14.83	61	69941	4.543	ng #	33
40) 1-Butanol	14.84	56	100264	4.339	ng #	54
41) Benzene	14.98	78	450320	5.014	ng	99
42) Carbon Tetrachloride	15.21	117	174878	5.888	ng	98
43) Cyclohexane	15.41	84	176057	5.299	ng #	75
44) tert-Amyl Methyl Ether	15.87	73	311528	4.875	ng	94
45) 1,2-Dichloropropane	16.19	63	118558	4.607	ng	96
46) Bromodichloromethane	16.45	83	164042	5.372	ng	99
47) Trichloroethene	16.54	130	135766	6.144	ng	98
48) 1,4-Dioxane	16.49	88	89293	5.616	ng	81
49) Isooctane	16.62	57	489147	4.600	ng	77
50) Methyl Methacrylate	16.79	100	44906	5.506	ng	90
51) n-Heptane	16.98	71	124058	4.986	ng #	79
52) cis-1,3-Dichloropropene	17.73	75	175145	5.006	ng	97
53) 4-Methyl-2-pentanone	17.76	58	117483	4.783	ng	80
54) trans-1,3-Dichloropropene	18.43	75	170691	5.647	ng	100
55) 1,1,2-Trichloroethane	18.67	97	112834	5.217	ng	99
58) Toluene	19.06	91	502050	5.540	ng	97
59) 2-Hexanone	19.37	43	341240	5.055	ng	80
60) Dibromochloromethane	19.60	129	141184	6.460	ng	99
61) 1,2-Dibromoethane	19.93	107	133769	6.278	ng	100
62) Butyl Acetate	20.19	43	350603	5.194	ng	85
63) n-Octane	20.35	57	105392	4.962	ng	90
64) Tetrachloroethene	20.55	166	144016	6.347	ng	99
65) Chlorobenzene	21.41	112	340277	6.062	ng	100
66) Ethylbenzene	21.89	91	581871	5.751	ng	94
67) m- & p-Xylene	22.12	91	919031	13.587	ng	91
68) Bromoform	22.21	173	126010	8.433	ng	99
69) Styrene	22.57	104	348304	5.967	ng	98
70) o-Xylene	22.71	91	470480	6.463	ng	93
71) n-Nonane	22.98	43	288186	4.944	ng #	82
72) 1,1,2,2-Tetrachloroethane	22.69	83	210731	6.066	ng	97
74) Cumene	23.46	105	554593	6.006	ng	100
75) alpha-Pinene	23.96	93	281388	5.733	ng	93
76) n-Propylbenzene	24.10	91	701092	5.673	ng	97
77) 3-Ethyltoluene	24.23	105	562110	5.583	ng	98
78) 4-Ethyltoluene	24.28	105	597609	6.446	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	503181	6.111	ng	98

*Handwritten signature*  
 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220805.D  
Acq On : 22 May 2008 5:58 am  
Operator : RTB  
Sample : 5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:40 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	261042	5.987	ng	98
81) 2-Ethyltoluene	24.61	105	571215	5.644	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	530732	5.705	ng	98
83) n-Decane	24.98	57	280459	5.451	ng	86
84) Benzyl Chloride	25.04	91	355075	5.599	ng	97
85) 1,3-Dichlorobenzene	25.08	146	317586	6.305	ng	100
86) 1,4-Dichlorobenzene	25.16	146	320921	6.658	ng	100
87) sec-Butylbenzene	25.21	105	669348	6.128	ng	98
88) p-Isopropyltoluene	25.40	119	609096	6.394	ng	94
89) 1,2,3-Trimethylbenzene	25.40	105	526166	5.751	ng	98
90) 1,2-Dichlorobenzene	25.58	146	311311	6.031	ng	100
91) d-Limonene	25.57	68	203342	4.820	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.10	157	96726	7.073	ng	88
93) n-Undecane	26.50	57	295284	5.467	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	226237	7.072	ng	96
95) Naphthalene	27.77	128	674861	6.561	ng	98
96) n-Dodecane	27.74	57	288982	5.273	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	150775	7.319	ng	100

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

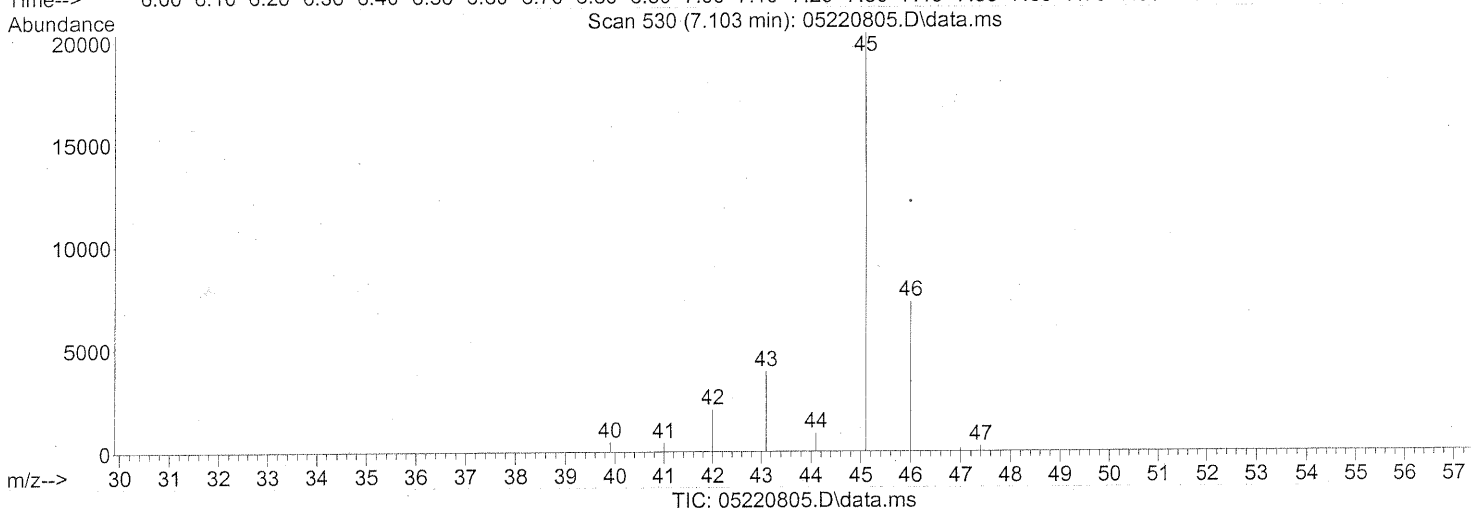
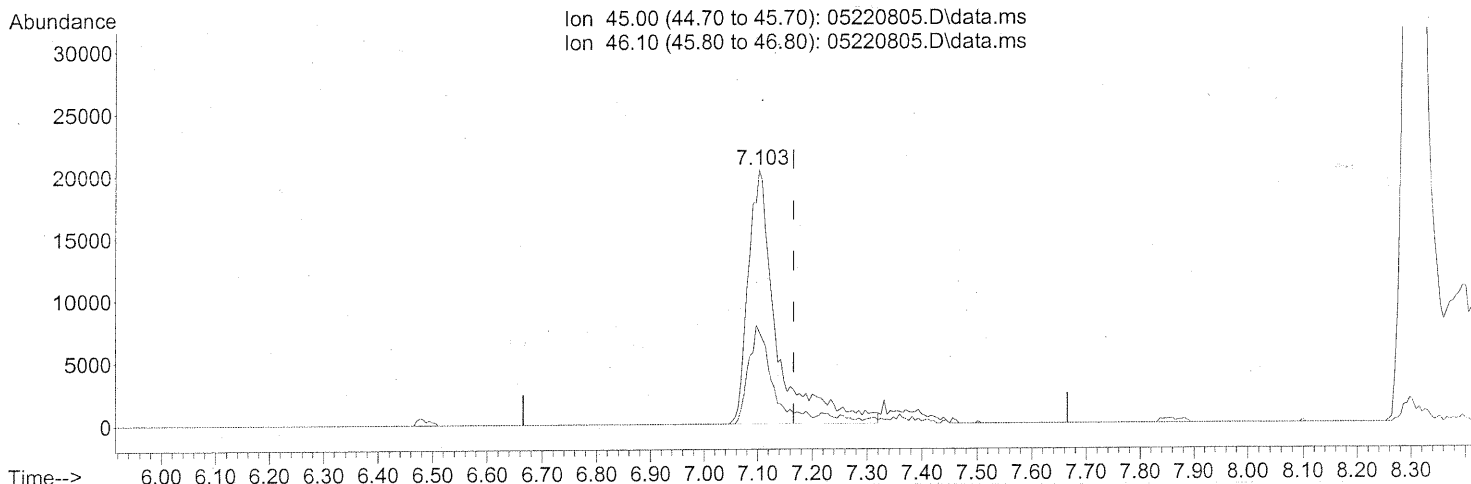
7 05/22/08



Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220805.D  
Acq On : 22 May 2008 5:58 am  
Operator : RTB  
Sample : 5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(10) Ethanol (T)

7.103min (-0.063) 3.40ng

response 75261

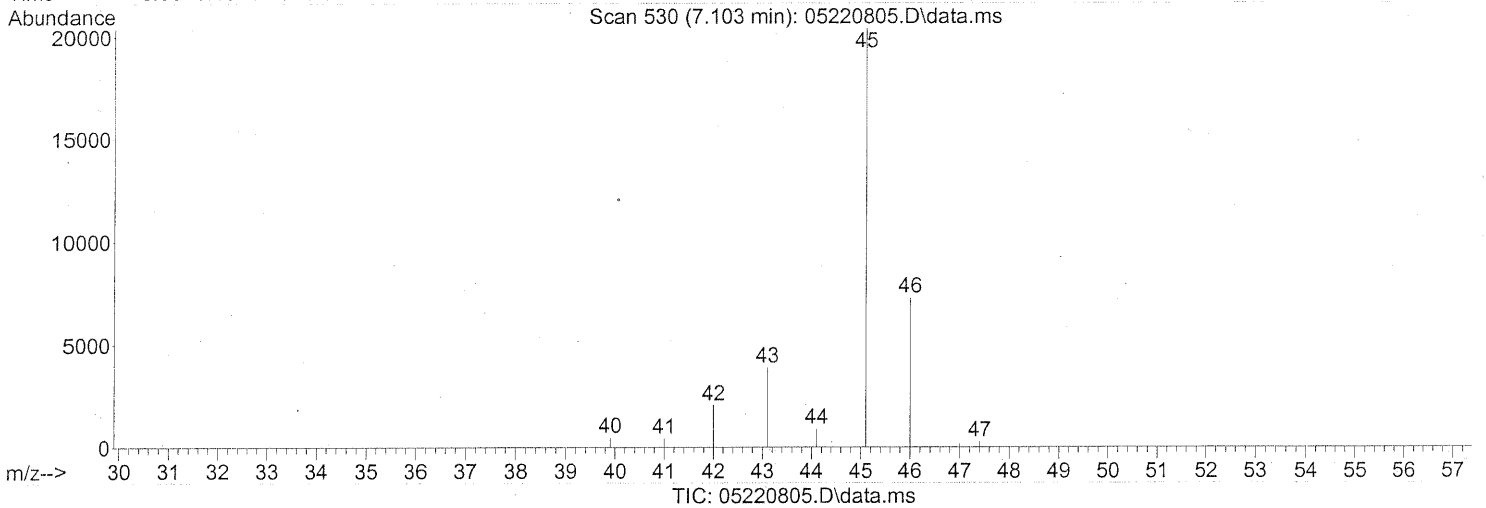
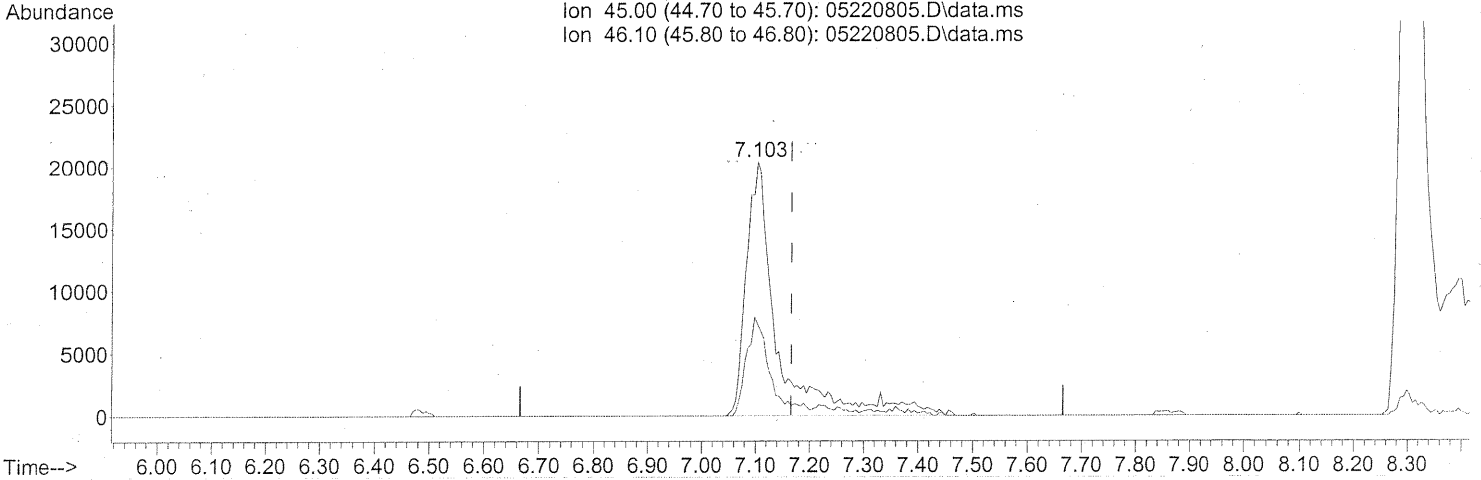
Ion	Exp%	Act%
45.00	100	100
46.10	41.00	32.13
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220805.D  
Acq On : 22 May 2008 5:58 am  
Operator : RTB  
Sample : 5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:07:22 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



(10) Ethanol (T)  
7.103min (-0.063) 3.68ng m  
response 81383

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	29.71
0.00	0.00	0.00
0.00	0.00	0.00

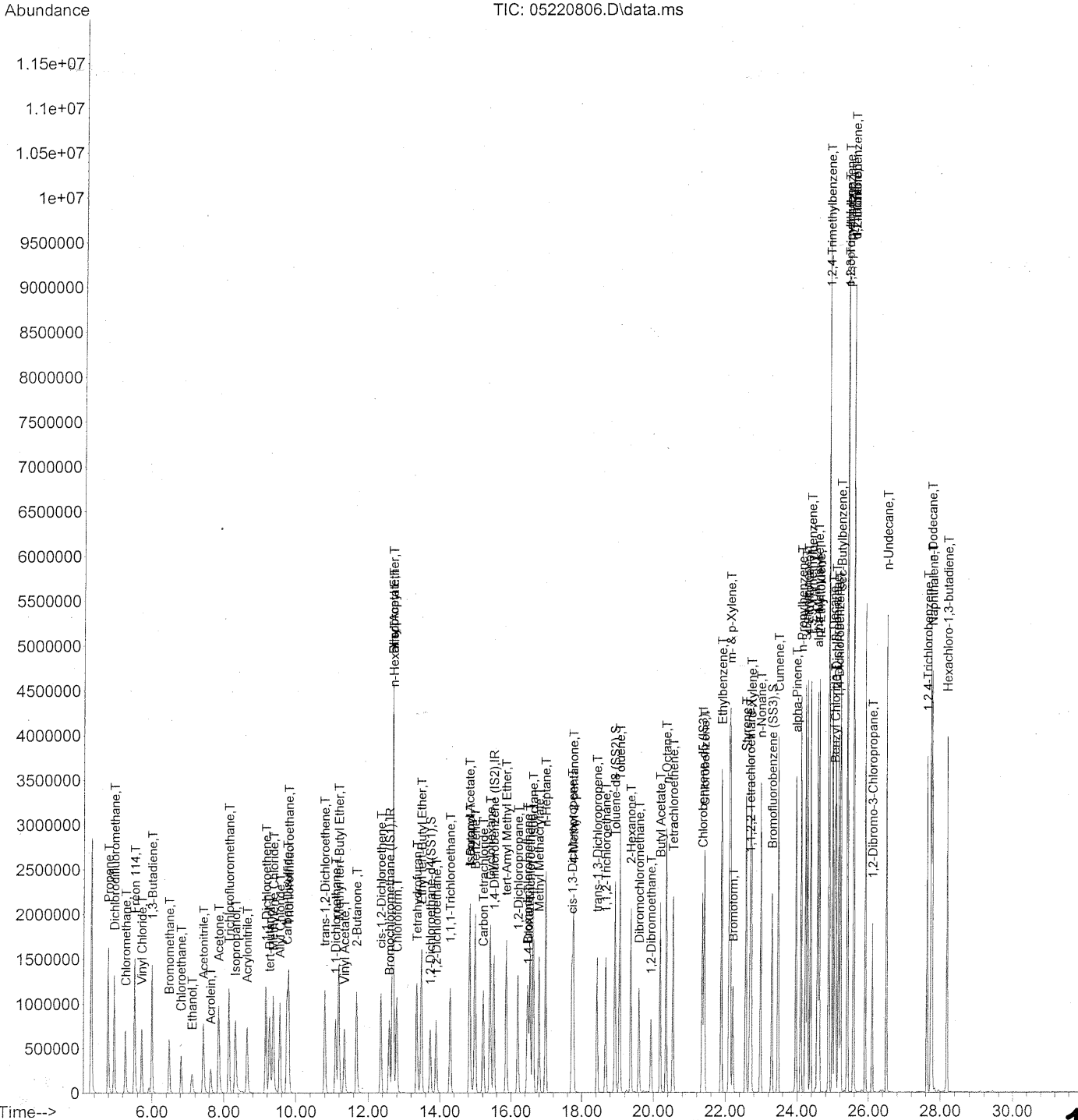
ADDED TAILING

8/05/22/08

Em 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220806.D  
Acq On : 22 May 2008 6:39 am  
Operator : RTB  
Sample : 25ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Tue Apr 15 06:47:20 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220806.D  
 Acq On : 22 May 2008 6:39 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	416973	25.000	ng	-0.01
37) 1,4-Difluorobenzene (IS2)	15.52	114	1789357	25.000	ng	-0.01
56) Chlorobenzene-d5 (IS3)	21.35	82	864655	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.73	65	715546	21.398	ng	-0.02
Spiked Amount	25.000		Recovery	=	85.60%	✓
57) Toluene-d8 (SS2)	18.93	98	1925065	24.839	ng	0.00
Spiked Amount	25.000		Recovery	=	99.36%	✓
73) Bromofluorobenzene (SS3)	23.29	174	804956	30.182	ng	0.00
Spiked Amount	25.000		Recovery	=	120.72%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	762505	22.094	ng	88
3) Dichlorodifluoromethane	4.96	85	1436855	22.837	ng	100
4) Chloromethane	5.28	50	991714	18.861	ng	97
5) Freon 114	5.52	135	719512	23.356	ng	99
6) Vinyl Chloride	5.72	62	949617	19.405	ng	96
7) 1,3-Butadiene	6.00	54	813723	21.504	ng	# 77
8) Bromomethane	6.48	94	536830	22.849	ng	99
9) Chloroethane	6.82	64	460399	22.709	ng	96
10) Ethanol	7.12	45	452905	19.243	ng	96
11) Acetonitrile	7.43	41	1312976	21.227	ng	96
12) Acrolein	7.64	56	365766	21.992	ng	99
13) Acetone	7.86	58	543405	23.543	ng	# 59
14) Trichlorofluoromethane	8.14	101	1261154	25.511	ng	100
15) Isopropanol	8.32	45	1744228	22.331	ng	95
16) Acrylonitrile	8.64	53	877116	24.490	ng	98
17) 1,1-Dichloroethene	9.16	96	615935	26.749	ng	# 81
18) tert-Butanol	9.26	59	1602928	24.744	ng	90
19) Methylene Chloride	9.36	84	639063	24.103	ng	84
20) Allyl Chloride	9.55	41	987824	27.887	ng	99
21) Trichlorotrifluoroethane	9.81	151	618296	29.270	ng	96
22) Carbon Disulfide	9.76	76	2212349	22.504	ng	96
23) trans-1,2-Dichloroethene	10.80	61	980658	24.435	ng	84
24) 1,1-Dichloroethane	11.10	63	1145632	24.528	ng	95
25) Methyl tert-Butyl Ether	11.19	73	1917321	24.994	ng	86
26) Vinyl Acetate	11.35	86	116272	25.354	ng	# 96
27) 2-Butanone	11.68	72	443899	27.424	ng	97
28) cis-1,2-Dichloroethene	12.36	61	935518	24.736	ng	84
29) Diisopropyl Ether	12.69	87	495247	23.302	ng	# 88
30) Ethyl Acetate	12.69	61	281602	27.909	ng	79
31) n-Hexane	12.70	57	1215561	23.179	ng	90

1324

5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220806.D  
 Acq On : 22 May 2008 6:39 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.80	83	1136032	29.181	ng	100
34) Tetrahydrofuran	13.36	72	425202	26.263	ng	94
35) Ethyl tert-Butyl Ether	13.48	87	718287	25.700	ng	# 76
36) 1,2-Dichloroethane	13.90	62	955069	24.770	ng	98
38) 1,1,1-Trichloroethane	14.29	97	1053711	28.261	ng	97
39) Isopropyl Acetate	14.83	61	411835	25.310	ng	# 42
40) 1-Butanol	14.84	56	603998	24.731	ng	# 59
41) Benzene	14.99	78	2468333	26.003	ng	99
42) Carbon Tetrachloride	15.21	117	972741	30.984	ng	99
43) Cyclohexane	15.41	84	951654	27.102	ng	# 75
44) tert-Amyl Methyl Ether	15.87	73	1717895	25.432	ng	93
45) 1,2-Dichloropropane	16.20	63	656264	24.125	ng	98
46) Bromodichloromethane	16.46	83	892908	27.666	ng	99
47) Trichloroethene	16.54	130	717464	30.721	ng	100
48) 1,4-Dioxane	16.49	88	488486	29.064	ng	81
49) Isooctane	16.62	57	2708375	24.098	ng	79
50) Methyl Methacrylate	16.79	100	259495	30.103	ng	89
51) n-Heptane	16.98	71	690272	26.248	ng	# 79
52) cis-1,3-Dichloropropene	17.73	75	994088	26.881	ng	99
53) 4-Methyl-2-pentanone	17.77	58	666973	25.688	ng	80
54) trans-1,3-Dichloropropene	18.43	75	1001703	31.356	ng	100
55) 1,1,2-Trichloroethane	18.67	97	615078	26.907	ng	98
58) Toluene	19.07	91	2757560	28.319	ng	98
59) 2-Hexanone	19.37	43	1934323	26.668	ng	82
60) Dibromochloromethane	19.60	129	806828	34.355	ng	99
61) 1,2-Dibromoethane	19.93	107	733584	32.043	ng	100
62) Butyl Acetate	20.19	43	2047043	28.223	ng	86
63) n-Octane	20.35	57	600585	26.315	ng	90
64) Tetrachloroethene	20.55	166	798091	32.735	ng	99
65) Chlorobenzene	21.41	112	1853589	30.734	ng	100
66) Ethylbenzene	21.89	91	3251306	29.903	ng	94
67) m- & p-Xylene	22.13	91	5254327	72.293	ng	92
68) Bromoform	22.21	173	742658	46.253	ng	99
69) Styrene	22.57	104	1998118	31.854	ng	97
70) o-Xylene	22.72	91	2640019	33.753	ng	93
71) n-Nonane	22.98	43	1643415	26.237	ng	# 82
72) 1,1,2,2-Tetrachloroethane	22.69	83	1205766	32.301	ng	97
74) Cumene	23.47	105	3116293	31.410	ng	100
75) alpha-Pinene	23.97	93	1613330	30.592	ng	95
76) n-Propylbenzene	24.10	91	4011480	30.210	ng	98
77) 3-Ethyltoluene	24.23	105	3283639	30.351	ng	99
78) 4-Ethyltoluene	24.28	105	3333214	33.460	ng	99
79) 1,3,5-Trimethylbenzene	24.38	105	2850246	32.216	ng	99

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7/05/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220806.D  
 Acq On : 22 May 2008 6:39 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:09:18 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Tue Apr 15 06:47:20 2008  
 Response via : Initial Calibration

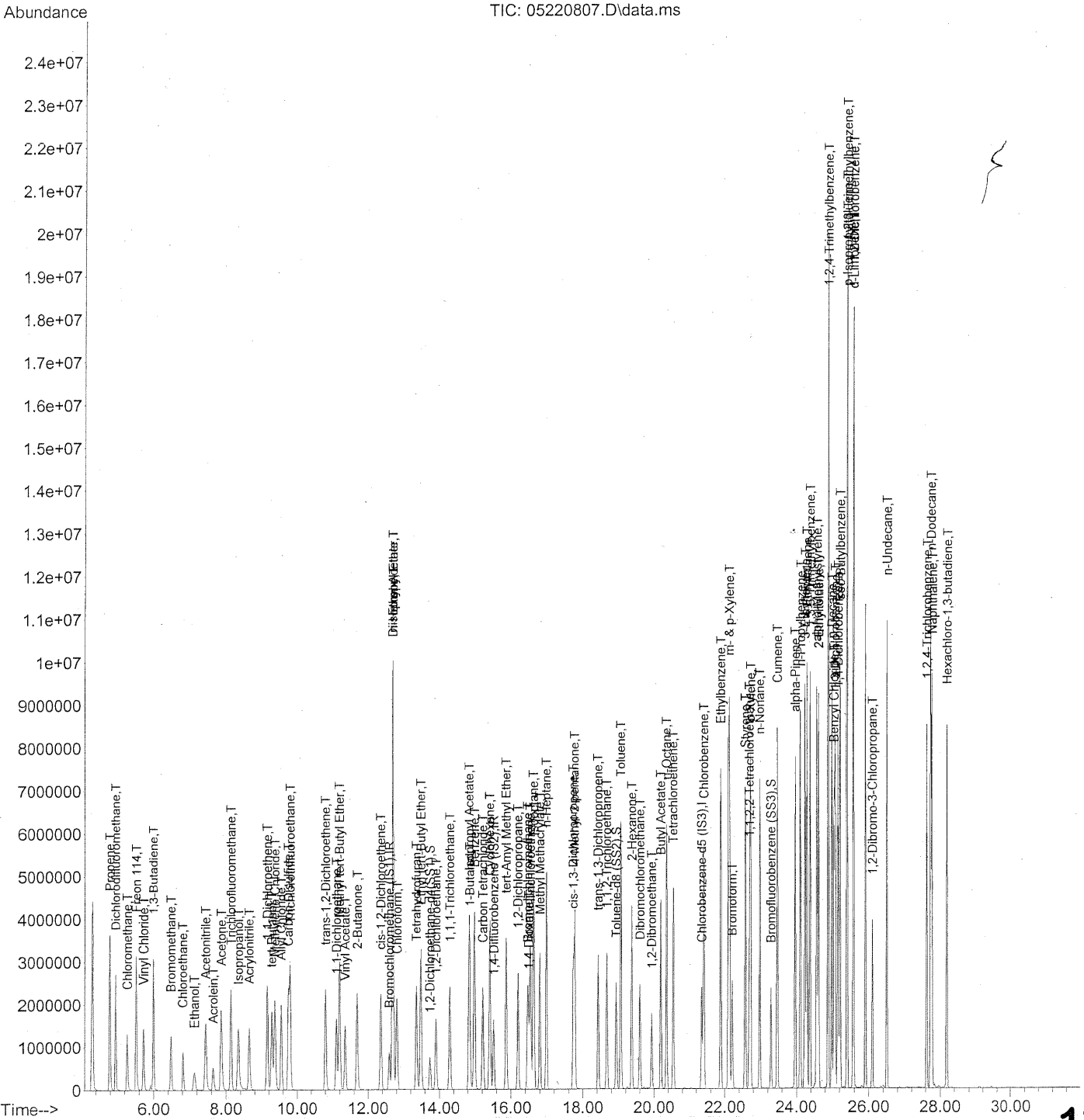
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1552921	33.146	ng	98
81) 2-Ethyltoluene	24.61	105	3255355	29.932	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	3101955	31.029	ng	99
83) n-Decane	24.99	57	1623112	29.359	ng	86
84) Benzyl Chloride	25.05	91	2339844	34.336	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1810597	33.455	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1821585	35.171	ng	99
87) sec-Butylbenzene	25.21	105	3795451	32.337	ng	98
88) p-Isopropyltoluene	25.40	119	3608029	35.250	ng	95
89) 1,2,3-Trimethylbenzene	25.41	105	3070241	31.230	ng	99
90) 1,2-Dichlorobenzene	25.58	146	1780747	32.105	ng	99
91) d-Limonene	25.58	68	1230457	27.146	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	591373	40.245	ng	91
93) n-Undecane	26.50	57	1720154	29.636	ng	85
94) 1,2,4-Trichlorobenzene	27.63	180	1310788	38.132	ng	96
95) Naphthalene	27.77	128	3956580	35.798	ng	99
96) n-Dodecane	27.74	57	1737723	29.508	ng	83
97) Hexachloro-1,3-butadiene	28.19	225	850097	38.402	ng	100

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

*Pos/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220807.D  
Acq On : 22 May 2008 7:20 am  
Operator : RTB  
Sample : 50ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:13:27 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220807.D  
 Acq On : 22 May 2008 7:20 am  
 Operator : RTB  
 Sample : 50ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:13:27 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	454188	25.000	ng	0.01
37) 1,4-Difluorobenzene (IS2)	15.53	114	1924432	25.000	ng	0.01
56) Chlorobenzene-d5 (IS3)	21.36	82	936145	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.74	65	765682	23.208	ng	0.01
Spiked Amount	25.000		Recovery	=	92.84%	✓
57) Toluene-d8 (SS2)	18.93	98	2057293	24.538	ng	0.00
Spiked Amount	25.000		Recovery	=	98.16%	✓
73) Bromofluorobenzene (SS3)	23.29	174	864419	26.619	ng	0.00
Spiked Amount	25.000		Recovery	=	106.48%	✓

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	1702217	45.626	ng	90
3) Dichlorodifluoromethane	4.95	85	2981591	43.773	ng	100
4) Chloromethane	5.27	50	1894393	39.547	ng	97
5) Freon 114	5.52	135	1511964	44.647	ng	99
6) Vinyl Chloride	5.71	62	1982331	42.843	ng	96
7) 1,3-Butadiene	5.99	54	1751847	50.034	ng	# 78
8) Bromomethane	6.48	94	1147873	45.701	ng	99
9) Chloroethane	6.81	64	984146	46.080	ng	95
10) Ethanol	7.14	45	980730	40.554	ng	95
11) Acetonitrile	7.44	41	2851538	40.927	ng	97
12) Acrolein	7.65	56	792345	45.513	ng	99
13) Acetone	7.87	58	1155032	38.351	ng	# 62
14) Trichlorofluoromethane	8.14	101	2653036	46.367	ng	100
15) Isopropanol	8.34	45	3422080m	42.083	ng	
16) Acrylonitrile	8.65	53	1880949	49.196	ng	99
17) 1,1-Dichloroethene	9.16	96	1316988	52.309	ng	# 79
18) tert-Butanol	9.28	59	3398574	47.307	ng	91
19) Methylene Chloride	9.37	84	1352050	48.646	ng	83
20) Allyl Chloride	9.55	41	2169612	57.961	ng	99
21) Trichlorotrifluoroethane	9.81	151	1321714	51.616	ng	95
22) Carbon Disulfide	9.76	76	4679422	43.497	ng	96
23) trans-1,2-Dichloroethene	10.80	61	2084796	49.585	ng	85
24) 1,1-Dichloroethane	11.11	63	2435183	49.685	ng	95
25) Methyl tert-Butyl Ether	11.19	73	4047308	49.630	ng	86
26) Vinyl Acetate	11.35	86	257899	61.046	ng	# 96
27) 2-Butanone	11.69	72	939216	51.447	ng	94
28) cis-1,2-Dichloroethene	12.36	61	1976621	49.333	ng	85
29) Diisopropyl Ether	12.69	87	1062905	45.266	ng	# 90
30) Ethyl Acetate	12.70	61	620656	58.156	ng	79
31) n-Hexane	12.70	57	2606180	48.376	ng	90

1328

*Handwritten:* 5/22/08



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220807.D  
 Acq On : 22 May 2008 7:20 am  
 Operator : RTB  
 Sample : 50ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:13:27 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.81	83	2387290	56.390	ng	100
34) Tetrahydrofuran	13.36	72	873088	49.555	ng	93
35) Ethyl tert-Butyl Ether	13.49	87	1519912	49.016	ng #	76
36) 1,2-Dichloroethane	13.90	62	1967827	47.558	ng	98
38) 1,1,1-Trichloroethane	14.30	97	2208142	50.337	ng	97
39) Isopropyl Acetate	14.84	61	873634	52.133	ng #	45
40) 1-Butanol	14.86	56	1313131	50.723	ng #	64
41) Benzene	14.99	78	5181804	50.503	ng	99
42) Carbon Tetrachloride	15.22	117	2050221	53.356	ng	99
43) Cyclohexane	15.42	84	1998084	50.165	ng #	76
44) tert-Amyl Methyl Ether	15.87	73	3643868	49.255	ng	94
45) 1,2-Dichloropropane	16.20	63	1384060	49.886	ng	99
46) Bromodichloromethane	16.47	83	1894467	54.264	ng	100
47) Trichloroethene	16.54	130	1496111	48.844	ng	100
48) 1,4-Dioxane	16.50	88	1034911	53.471	ng	81
49) Isooctane	16.63	57	5664489	47.276	ng	79
50) Methyl Methacrylate	16.81	100	547862	55.294	ng	89
51) n-Heptane	16.99	71	1437618	52.152	ng #	80
52) cis-1,3-Dichloropropene	17.73	75	2107625	51.402	ng	99
53) 4-Methyl-2-pentanone	17.77	58	1415573	51.262	ng	81
54) trans-1,3-Dichloropropene	18.43	75	2143285	60.836	ng	100
55) 1,1,2-Trichloroethane	18.67	97	1292274	51.574	ng	98
58) Toluene	19.07	91	5764092	50.193	ng	99
59) 2-Hexanone	19.38	43	4048530	50.407	ng	83
60) Dibromochloromethane	19.61	129	1698069	56.848	ng	98
61) 1,2-Dibromoethane	19.94	107	1545522	53.027	ng	100
62) Butyl Acetate	20.19	43	4286534	52.669	ng	87
63) n-Octane	20.36	57	1281368	49.489	ng	90
64) Tetrachloroethene	20.55	166	1678655	51.147	ng	99
65) Chlorobenzene	21.42	112	3910630	51.780	ng	100
66) Ethylbenzene	21.89	91	6762491	51.250	ng	95
67) m- & p-Xylene	22.13	91	10953492	121.782	ng	93
68) Bromoform	22.21	173	1568481	71.574	ng	99
69) Styrene	22.58	104	4217026	54.221	ng	97
70) o-Xylene	22.72	91	5530335	57.451	ng	94
71) n-Nonane	22.99	43	3423415	49.404	ng #	83
72) 1,1,2,2-Tetrachloroethane	22.69	83	2573642	63.796	ng	98
74) Cumene	23.47	105	6524352	51.467	ng	98
75) alpha-Pinene	23.97	93	3448151	52.529	ng	96
76) n-Propylbenzene	24.11	91	8176336	50.385	ng	99
77) 3-Ethyltoluene	24.23	105	6910758	51.365	ng	100
78) 4-Ethyltoluene	24.28	105	6763625	53.268	ng	99
79) 1,3,5-Trimethylbenzene	24.38	105	5917484	51.578	ng	100

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Foster/ea

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220807.D  
 Acq On : 22 May 2008 7:20 am  
 Operator : RTB  
 Sample : 50ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:18:20 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:13:27 2008  
 Response via : Initial Calibration

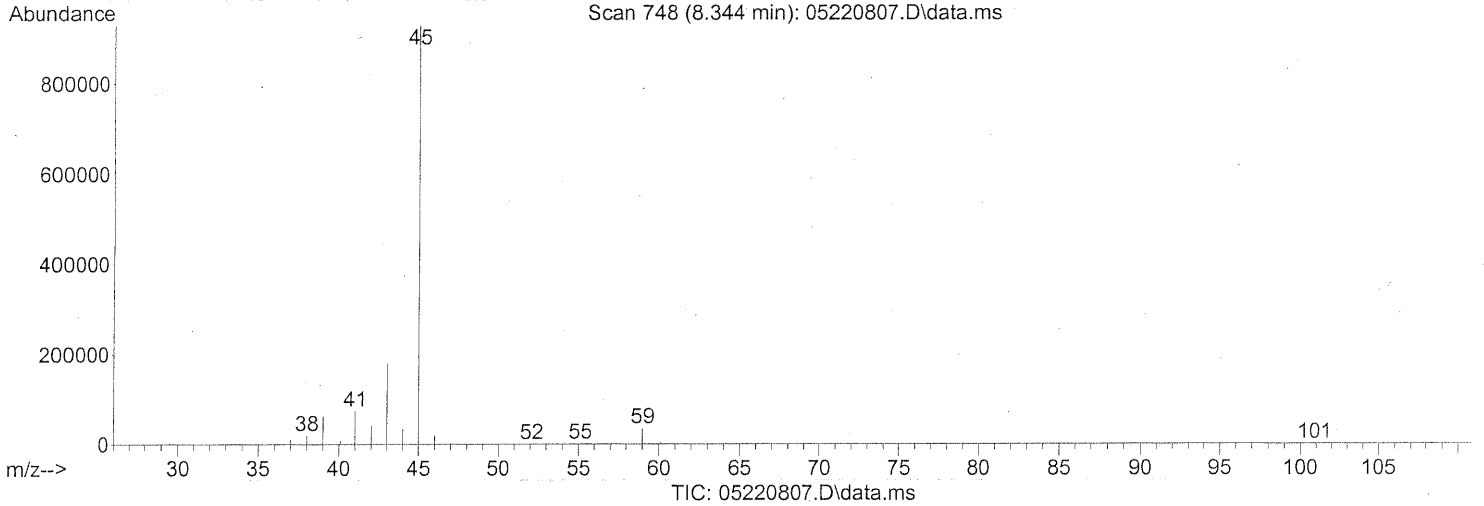
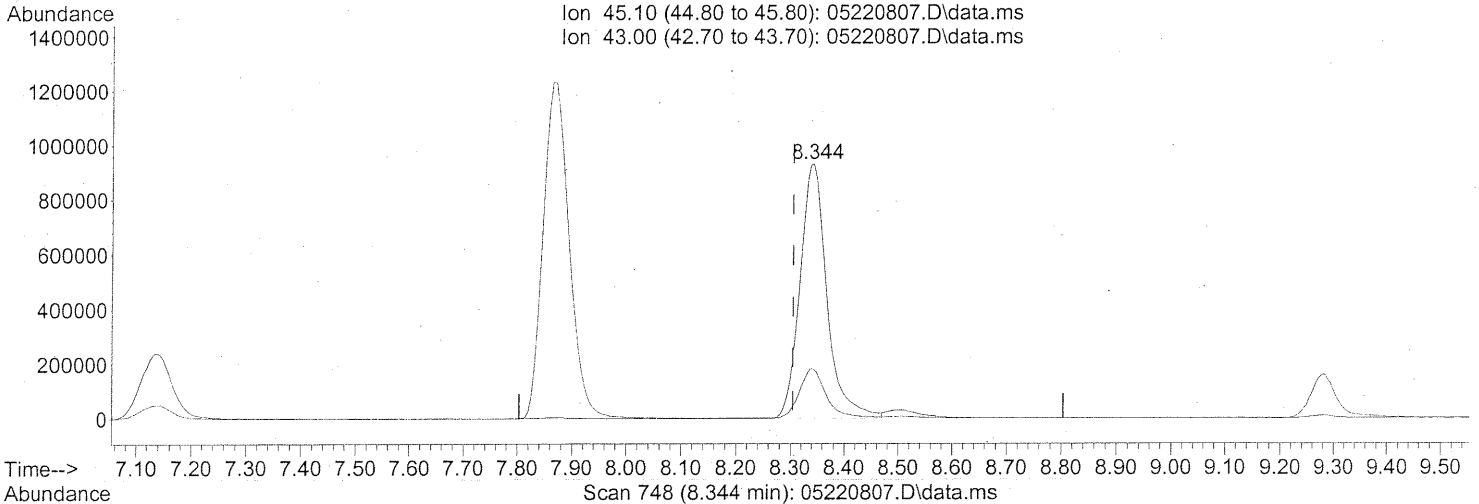
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	3260246	53.476	ng	97
81) 2-Ethyltoluene	24.62	105	6680322	48.849	ng	99
82) 1,2,4-Trimethylbenzene	24.89	105	6443274	51.595	ng	100
83) n-Decane	24.99	57	3353219	51.063	ng	85
84) Benzyl Chloride	25.05	91	5061948	64.084	ng	99
85) 1,3-Dichlorobenzene	25.08	146	3792345	52.804	ng	100
86) 1,4-Dichlorobenzene	25.16	146	3789076	54.907	ng	100
87) sec-Butylbenzene	25.22	105	7755102	52.228	ng	97
88) p-Isopropyltoluene	25.41	119	7381347	56.902	ng	94
89) 1,2,3-Trimethylbenzene	25.41	105	6401281	52.335	ng	100
90) 1,2-Dichlorobenzene	25.58	146	3698897	50.240	ng	99
91) d-Limonene	25.58	68	2592765	49.784	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	1267680	64.225	ng	93
93) n-Undecane	26.50	57	3628478	52.700	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	2831281	57.870	ng	95
95) Naphthalene	27.78	128	8221504	54.942	ng	100
96) n-Dodecane	27.74	57	3720630	54.418	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	1857176	56.635	ng	99

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

*5/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220807.D  
Acq On : 22 May 2008 7:20 am  
Operator : RTB  
Sample : 50ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:13:27 2008  
Response via : Initial Calibration



(15) Isopropanol (T)

8.344min (+0.040) 40.42ng

response 3286841

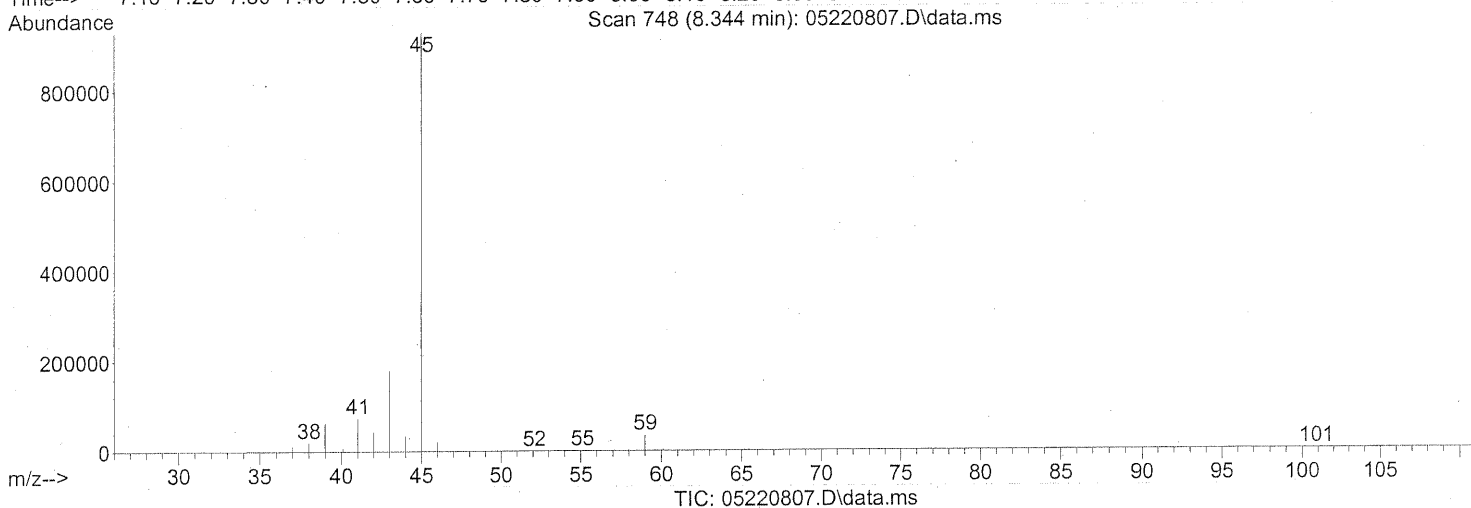
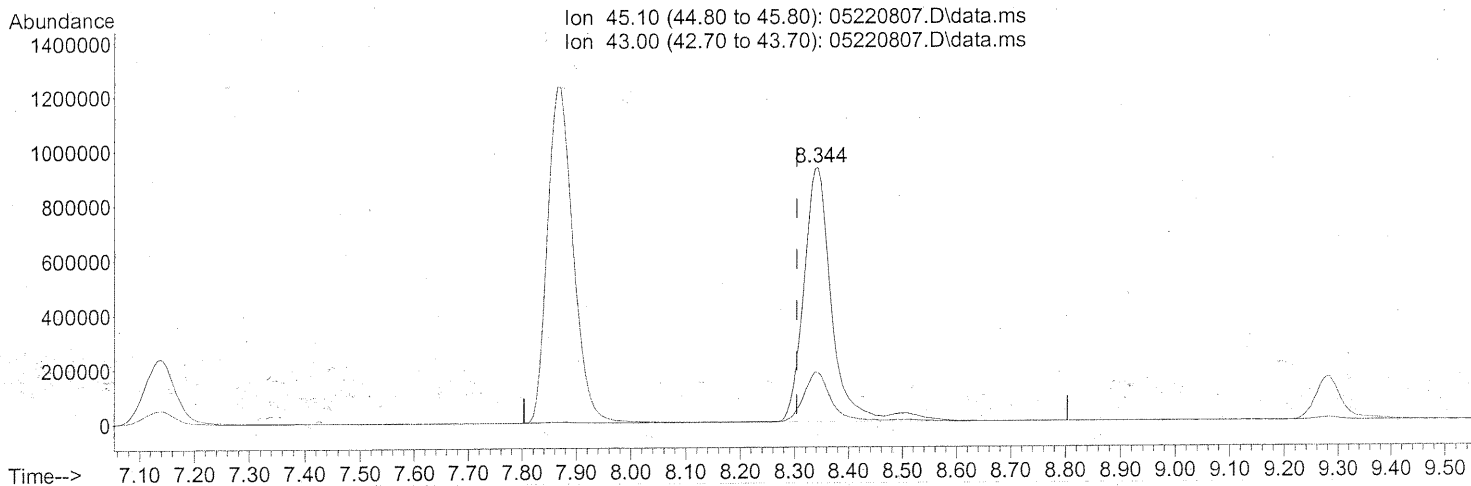
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	19.24
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Quantitation Report (Qedit)

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220807.D  
Acq On : 22 May 2008 7:20 am  
Operator : RTB  
Sample : 50ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:13:44 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:13:27 2008  
Response via : Initial Calibration



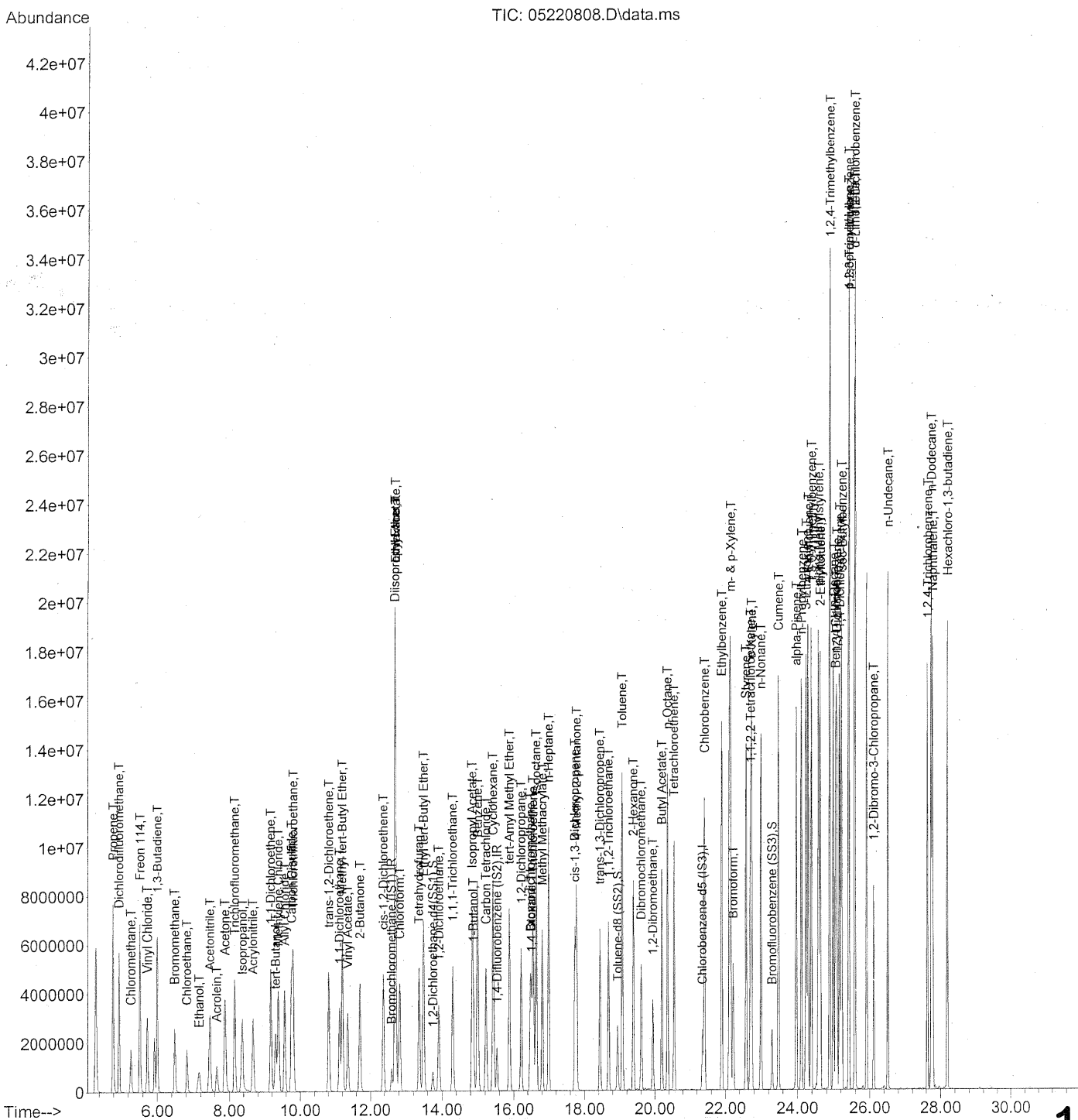
(15) Isopropanol (T)  
8.344min (+0.040) 42.08ng m  
response 3422080

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	18.48
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
P 05/22/08  
Lem 5/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220808.D  
Acq On : 22 May 2008 8:01 am  
Operator : RTB  
Sample : 100ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:18:59 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220808.D  
 Acq On : 22 May 2008 8:01 am  
 Operator : RTB  
 Sample : 100ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:18:59 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.60	130	499844	25.000	ng	0.02
37) 1,4-Difluorobenzene (IS2)	15.53	114	2090195	25.000	ng	0.02
56) Chlorobenzene-d5 (IS3)	21.36	82	998042	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.75	65	821224	23.131	ng	0.02
Spiked Amount	25.000		Recovery	=	92.52%	✓
57) Toluene-d8 (SS2)	18.94	98	2226768	24.907	ng	0.01
Spiked Amount	25.000		Recovery	=	99.64%	✓
73) Bromofluorobenzene (SS3)	23.30	174	935196	26.328	ng	0.00
Spiked Amount	25.000		Recovery	=	105.32%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	3618365	89.313	ng	91
3) Dichlorodifluoromethane	4.95	85	6233410	83.923	ng	99
4) Chloromethane	5.27	50	2613249	51.906	ng	97
5) Freon 114	5.52	135	3331516	90.532	ng	99
6) Vinyl Chloride	5.72	62	4258812	86.338	ng	95
7) 1,3-Butadiene	6.00	54	3733563	100.640	ng	# 78
8) Bromomethane	6.48	94	2454975	90.476	ng	99
9) Chloroethane	6.82	64	2104947	90.683	ng	95
10) Ethanol	7.15	45	2128819	80.341	ng	95
11) Acetonitrile	7.47	41	6047148	78.947	ng	96
12) Acrolein	7.65	56	1713269	90.046	ng	99
13) Acetone	7.88	58	2480814	75.471	ng	# 69
14) Trichlorofluoromethane	8.15	101	5619271	89.141	ng	100
15) Isopropanol	8.37	45	6968359	79.132	ng	95
16) Acrylonitrile	8.66	53	4003929	96.055	ng	98
17) 1,1-Dichloroethene	9.16	96	2816711	101.627	ng	# 78
18) tert-Butanol	9.30	59	4339050	55.424	ng	90
19) Methylene Chloride	9.37	84	2894936	95.058	ng	# 82
20) Allyl Chloride	9.56	41	4725704	115.661	ng	99
21) Trichlorotrifluoroethane	9.81	151	2795872	98.032	ng	95
22) Carbon Disulfide	9.77	76	9906306	84.782	ng	95
23) trans-1,2-Dichloroethene	10.81	61	4508123	98.826	ng	84
24) 1,1-Dichloroethane	11.12	63	5197608	97.423	ng	95
25) Methyl tert-Butyl Ether	11.20	73	8560648	96.251	ng	87
26) Vinyl Acetate	11.36	86	584588	126.385	ng	# 86
27) 2-Butanone	11.70	72	1930849	96.606	ng	# 90
28) cis-1,2-Dichloroethene	12.37	61	4225200	97.160	ng	83
29) Diisopropyl Ether	12.70	87	2241936	88.201	ng	# 87
30) Ethyl Acetate	12.71	61	1322393	115.760	ng	79
31) n-Hexane	12.71	57	5495351	95.245	ng	90

1334

*7/05/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220808.D  
 Acq On : 22 May 2008 8:01 am  
 Operator : RTB  
 Sample : 100ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:18:59 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.82	83	5076347	109.731	ng	100
34) Tetrahydrofuran	13.36	72	1822782	95.305	ng	93
35) Ethyl tert-Butyl Ether	13.49	87	3270454	95.746	ng	# 74
36) 1,2-Dichloroethane	13.91	62	4127321	91.824	ng	97
38) 1,1,1-Trichloroethane	14.30	97	4698078	98.102	ng	96
39) Isopropyl Acetate	14.85	61	1868872	102.984	ng	# 54
40) 1-Butanol	14.88	56	2791756	97.697	ng	# 66
41) Benzene	15.00	78	10862072	97.961	ng	98
42) Carbon Tetrachloride	15.22	117	4396527	104.214	ng	99
43) Cyclohexane	15.42	84	4341704	100.544	ng	# 76
44) tert-Amyl Methyl Ether	15.88	73	7750761	97.021	ng	94
45) 1,2-Dichloropropane	16.21	63	2995074	100.524	ng	99
46) Bromodichloromethane	16.48	83	4038109	107.117	ng	100
47) Trichloroethene	16.55	130	3275567	97.388	ng	99
48) 1,4-Dioxane	16.51	88	2240784	106.812	ng	82
49) Isooctane	16.64	57	11898201	92.431	ng	80
50) Methyl Methacrylate	16.81	100	1175755	107.816	ng	90
51) n-Heptane	16.99	71	3110452	104.634	ng	# 80
52) cis-1,3-Dichloropropene	17.74	75	4505013	101.650	ng	100
53) 4-Methyl-2-pentanone	17.79	58	3035968	102.112	ng	80
54) trans-1,3-Dichloropropene	18.44	75	4596030	120.483	ng	99
55) 1,1,2-Trichloroethane	18.68	97	2798170	102.528	ng	97
58) Toluene	19.07	91	11935621	97.032	ng	99
59) 2-Hexanone	19.39	43	8273154	97.077	ng	85
60) Dibromochloromethane	19.61	129	3659026	112.467	ng	98
61) 1,2-Dibromoethane	19.94	107	3324092	105.186	ng	100
62) Butyl Acetate	20.20	43	8830378	102.235	ng	88
63) n-Octane	20.36	57	2732318	99.278	ng	91
64) Tetrachloroethene	20.55	166	3697436	103.310	ng	100
65) Chlorobenzene	21.42	112	8257282	101.037	ng	98
66) Ethylbenzene	21.90	91	13475481	95.315	ng	100
67) m- & p-Xylene	22.14	91	21735890	226.751	ng	97
68) Bromoform	22.22	173	3386774	140.735	ng	100
69) Styrene	22.58	104	8806510	104.763	ng	95
70) o-Xylene	22.73	91	11379968	110.493	ng	97
71) n-Nonane	22.99	43	7073437	96.240	ng	# 84
72) 1,1,2,2-Tetrachloroethane	22.70	83	5546058	129.023	ng	98
74) Cumene	23.48	105	12994730	95.422	ng	94
75) alpha-Pinene	23.97	93	7235722	102.454	ng	96
76) n-Propylbenzene	24.11	91	15249075	87.865	ng	95
77) 3-Ethyltoluene	24.24	105	13665128	94.255	ng	96
78) 4-Ethyltoluene	24.30	105	12869382	94.572	ng	94
79) 1,3,5-Trimethylbenzene	24.38	105	11704517	95.061	ng	96

*7/05/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220808.D  
 Acq On : 22 May 2008 8:01 am  
 Operator : RTB  
 Sample : 100ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 22 11:19:11 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:18:59 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.57	118	6793283	102.591	ng	97
81) 2-Ethyltoluene	24.63	105	12944985	87.872	ng	95
82) 1,2,4-Trimethylbenzene	24.90	105	12183750	93.691	ng	98
83) n-Decane	25.00	57	6684949	95.503	ng	84
84) Benzyl Chloride	25.06	91	10394950	122.582	ng	98
85) 1,3-Dichlorobenzene	25.09	146	7799683	99.904	ng	99
86) 1,4-Dichlorobenzene	25.17	146	7808346	103.898	ng	98
87) sec-Butylbenzene	25.22	105	14254088	89.336	ng	92
88) p-Isopropyltoluene	25.41	119	13122108	97.057	ng	90
89) 1,2,3-Trimethylbenzene	25.42	105	12020170	94.382	ng	98
90) 1,2-Dichlorobenzene	25.59	146	7117955	91.406	ng	98
91) d-Limonene	25.58	68	5122339	94.899	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.11	157	2745855	125.009	ng	96
93) n-Undecane	26.51	57	7238505	98.491	ng	82
94) 1,2,4-Trichlorobenzene	27.64	180	6082208	113.506	ng	94
95) Naphthalene	27.78	128	15301122	93.920	ng	95
96) n-Dodecane	27.74	57	7513203	102.717	ng	80
97) Hexachloro-1,3-butadiene	28.19	225	4111380	114.428	ng	99

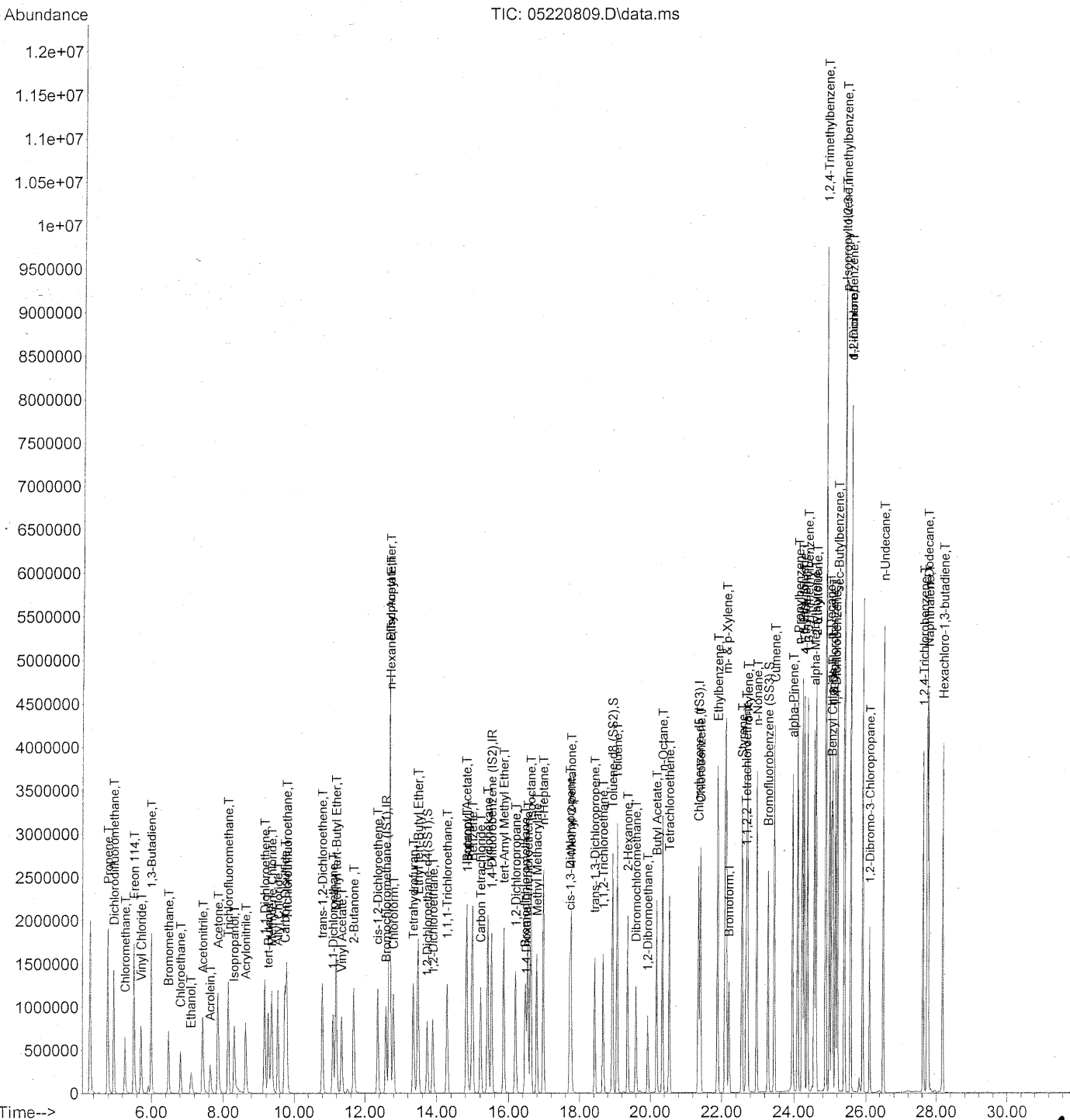
(#) = qualifier out of range (m) = manual integration (+) = signals summed

*7/05/22/08*



Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220809.D  
Acq On : 22 May 2008 8:41 am  
Operator : RTB  
Sample : 25ng TO-15 ICV Standard  
Misc : S20-04300802/S20-04290803  
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:20:46 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220809.D  
 Acq On : 22 May 2008 8:41 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICV Standard  
 Misc : S20-04300802/S20-04290803  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:20:46 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.59	130	526986	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.52	114	2202027	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	1025095	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.73	65	856754	23.463	ng	0.00
Spiked Amount	25.000		Recovery	=	93.84%	✓
57) Toluene-d8 (SS2)	18.93	98	2305788	25.046	ng	0.00
Spiked Amount	25.000		Recovery	=	100.20%	✓
73) Bromofluorobenzene (SS3)	23.29	174	957507	25.576	ng	0.00
Spiked Amount	25.000		Recovery	=	102.32%	✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.79	42	904492	21.732	ng	89
3) Dichlorodifluoromethane	4.96	85	1592833	20.763	ng	100
4) Chloromethane	5.28	50	951593	19.156	ng	97
5) Freon 114	5.52	135	846788	22.439	ng	99
6) Vinyl Chloride	5.72	62	1083652	21.802	ng	96
7) 1,3-Butadiene	5.99	54	1063896	28.776	ng	# 80
8) Bromomethane	6.48	94	657228	23.743	ng	99
9) Chloroethane	6.82	64	546673	23.153	ng	96
10) Ethanol	7.11	45	522833	18.869	ng	95
11) Acetonitrile	7.43	41	1535229	19.160	ng	99
12) Acrolein	7.64	56	448122	22.640	ng	99
13) Acetone	7.86	58	679311	23.946	ng	# 70
14) Trichlorofluoromethane	8.14	101	1461864	22.211	ng	100
15) Isopropanol	8.32	45	1791646	19.802	ng	97
16) Acrylonitrile	8.64	53	1021254	23.643	ng	98
17) 1,1-Dichloroethene	9.16	96	711330	24.569	ng	# 77
18) tert-Butanol	9.26	59	1820081	23.651	ng	91
19) Methylene Chloride	9.36	84	731536	23.074	ng	# 80
20) Allyl Chloride	9.55	41	1238821	29.284	ng	100
21) Trichlorotrifluoroethane	9.81	151	704259	23.529	ng	94
22) Carbon Disulfide	9.76	76	2534413	21.066	ng	97
23) trans-1,2-Dichloroethene	10.80	61	1111763	23.707	ng	83
24) 1,1-Dichloroethane	11.10	63	1307596	23.769	ng	96
25) Methyl tert-Butyl Ether	11.19	73	2142908	23.359	ng	86
26) Vinyl Acetate	11.35	86	160863	30.682	ng	# 80
27) 2-Butanone	11.68	72	493795	23.849	ng	# 91
28) cis-1,2-Dichloroethene	12.35	61	1043381	23.279	ng	82
29) Diisopropyl Ether	12.69	87	574546	22.646	ng	# 84
30) Ethyl Acetate	12.69	61	296591	26.536	ng	80
31) n-Hexane	12.70	57	1330931	23.599	ng	89

7/05/22/08

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220809.D  
 Acq On : 22 May 2008 8:41 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICV Standard  
 Misc : S20-04300802/S20-04290803  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:20:46 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) Chloroform	12.80	83	1256429	26.146	ng	100
34) Tetrahydrofuran	13.35	72	462519	23.366	ng #	90
35) Ethyl tert-Butyl Ether	13.48	87	827620	23.294	ng #	75
36) 1,2-Dichloroethane	13.90	62	1024639	22.070	ng	98
38) 1,1,1-Trichloroethane	14.29	97	1172977	23.390	ng	96
39) Isopropyl Acetate	14.83	61	470529	25.017	ng #	55
40) 1-Butanol	14.84	56	553333	18.281	ng #	52
41) Benzene	14.99	78	2737421	23.742	ng	99
42) Carbon Tetrachloride	15.21	117	1070287	24.104	ng	100
43) Cyclohexane	15.41	84	1063631	23.714	ng #	75
44) tert-Amyl Methyl Ether	15.87	73	1966905	23.781	ng	94
45) 1,2-Dichloropropane	16.20	63	731352	23.707	ng	99
46) Bromodichloromethane	16.46	83	1003739	25.754	ng	99
47) Trichloroethene	16.54	130	779244	22.032	ng	100
48) 1,4-Dioxane	16.49	88	532567	24.490	ng	80
49) Isooctane	16.62	57	3122023	23.617	ng	81
50) Methyl Methacrylate	16.80	100	280468	24.343	ng #	89
51) n-Heptane	16.98	71	738106	24.093	ng #	80
52) cis-1,3-Dichloropropene	17.73	75	1093368	23.856	ng	98
53) 4-Methyl-2-pentanone	17.77	58	704061	22.999	ng	79
54) trans-1,3-Dichloropropene	18.43	75	1097339	27.755	ng	99
55) 1,1,2-Trichloroethane	18.67	97	675092	23.694	ng	97
58) Toluene	19.07	91	2956298	23.623	ng	98
59) 2-Hexanone	19.37	43	1910790	22.159	ng	83
60) Dibromochloromethane	19.60	129	870561	25.756	ng	99
61) 1,2-Dibromoethane	19.93	107	797380	24.343	ng	100
62) Butyl Acetate	20.19	43	2128474	24.318	ng	87
63) n-Octane	20.35	57	663984	23.991	ng	89
64) Tetrachloroethene	20.55	166	849341	22.937	ng	99
65) Chlorobenzene	21.41	112	1988254	23.699	ng	100
66) Ethylbenzene	21.89	91	3424846	23.867	ng	94
67) m- & p-Xylene	22.13	91	5432092	56.594	ng	92
68) Bromoform	22.21	173	811353	32.258	ng	99
69) Styrene	22.57	104	2078402	24.224	ng	98
70) o-Xylene	22.72	91	2764174	26.678	ng	94
71) n-Nonane	22.98	43	1755676	23.864	ng #	84
72) 1,1,2,2-Tetrachloroethane	22.69	83	1287414	29.813	ng	97
74) Cumene	23.47	105	3407138	24.694	ng	99
75) alpha-Pinene	23.97	93	1694437	23.751	ng	96
76) n-Propylbenzene	24.10	91	4256280	24.244	ng	99
77) 3-Ethyltoluene	24.23	105	3497532	23.816	ng	99
78) 4-Ethyltoluene	24.28	105	3310164	24.177	ng	100
79) 1,3,5-Trimethylbenzene	24.37	105	2875327	23.246	ng	100

*Pos/22/08*

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220809.D  
 Acq On : 22 May 2008 8:41 am  
 Operator : RTB  
 Sample : 25ng TO-15 ICV Standard  
 Misc : S20-04300802/S20-04290803  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 22 11:36:49 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:20:46 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	1446859	21.606	ng	98
81) 2-Ethyltoluene	24.61	105	3432797	23.065	ng	100
82) 1,2,4-Trimethylbenzene	24.88	105	3024740	24.019	ng	100
83) n-Decane	24.98	57	1706800	24.634	ng	85
84) Benzyl Chloride	25.05	91	2488736	29.453	ng	98
85) 1,3-Dichlorobenzene	25.08	146	1830636	23.251	ng	100
86) 1,4-Dichlorobenzene	25.16	146	1844553	24.167	ng	99
87) sec-Butylbenzene	25.21	105	3958133	24.591	ng	98
88) p-Isopropyltoluene	25.40	119	3670414	27.703	ng	95
89) 1,2,3-Trimethylbenzene	25.41	105	3191482	25.901	ng	100
90) 1,2-Dichlorobenzene	25.58	146	1756962	23.529	ng	100
91) d-Limonene	25.58	68	1053273	20.994	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	635829	27.437	ng	94
93) n-Undecane	26.50	57	1797042	24.782	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	1355653	24.787	ng	96
95) Naphthalene	27.77	128	4000200	24.083	ng	99
96) n-Dodecane	27.74	57	1741563	24.150	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	871677	23.942	ng	99

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

*7/05/22/08*

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D  
 Data File Path: J:\MS13\DATA\2008\_05\22\  
 Operator: RTB  
 Date Acquired: 5/22/08 8:41  
 Acq. Method File: TO15.M  
 Sample Name: 25ng TO-15 ICV Standard  
 Misc Info: S20-04300802/S20-04290803  
 Instrument Name: GCMS13

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.79	21.73	26.3	82.6	70	130	*
3)	Dichlorodifluoromethane	4.96	20.76	25.5	81.4	70	130	*
4)	Chloromethane	5.28	19.16	24.5	78.2	70	130	*
5)	Freon 114	5.52	22.44	26.0	86.3	70	130	*
6)	Vinyl Chloride	5.72	21.80	24.8	87.9	70	130	*
7)	1,3-Butadiene	5.99	28.78	30.0	95.9	70	130	*
8)	Bromomethane	6.48	23.74	25.0	95.0	70	130	*
9)	Chloroethane	6.82	23.15	25.0	92.6	70	130	*
10)	Ethanol	7.11	18.87	23.8	79.3	70	130	*
11)	Acetonitrile	7.43	19.16	25.3	75.7	70	130	*
12)	Acrolein	7.64	22.64	24.8	91.3	70	130	*
13)	Acetone	7.86	23.95	26.8	89.4	70	130	*
14)	Trichlorofluoromethane	8.14	22.21	26.3	84.5	70	130	*
15)	Isopropanol	8.32	19.80	25.8	76.8	70	130	*
16)	Acrylonitrile	8.64	23.64	25.5	92.7	70	130	*
17)	1,1-Dichloroethene	9.16	24.57	27.8	88.4	70	130	*
18)	tert-Butanol	9.26	23.65	25.8	91.7	70	130	*
19)	Methylene Chloride	9.36	23.07	27.8	83.0	70	130	*
20)	Allyl Chloride	9.55	29.28	26.8	109.3	70	130	*
21)	Trichlorotrifluoroethane	9.81	23.53	27.8	84.6	70	130	*
22)	Carbon Disulfide	9.76	21.07	25.0	84.3	70	130	*
23)	trans-1,2-Dichloroethene	10.80	23.71	26.5	89.5	70	130	*
24)	1,1-Dichloroethane	11.10	23.77	26.8	88.7	70	130	*
25)	Methyl tert-Butyl Ether	11.19	23.36	26.8	87.2	70	130	*
26)	Vinyl Acetate	11.35	30.68	25.3	121.3	70	130	*
27)	2-Butanone	11.68	23.85	27.0	88.3	70	130	*
28)	cis-1,2-Dichloroethene	12.35	23.28	27.0	86.2	70	130	*
29)	Diisopropyl Ether	12.69	22.65	26.3	86.1	70	130	*
30)	Ethyl Acetate	12.69	26.54	29.3	90.6	70	130	*
31)	n-Hexane	12.70	23.60	27.0	87.4	70	130	*
32)	Chloroform	12.80	26.15	29.8	87.7	70	130	*
34)	Tetrahydrofuran	13.35	23.37	26.8	87.2	70	130	*
35)	Ethyl tert-Butyl Ether	13.48	23.29	26.0	89.6	70	130	*
36)	1,2-Dichloroethane	13.90	22.07	26.3	83.9	70	130	*
38)	1,1,1-Trichloroethane	14.29	23.39	26.8	87.3	70	130	*
39)	Isopropyl Acetate	14.83	25.02	25.5	98.1	70	130	*

*Post 5/22/08*

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D  
 Data File Path: J:\MS13\DATA\2008\_05\22\  
 Operator: RTB  
 Date Acquired: 5/22/08 8:41  
 Acq. Method File: TO15.M  
 Sample Name: 25ng TO-15 ICV Standard  
 Misc Info: S20-04300802/S20-04290803  
 Instrument Name: GCMS13

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
40)	1-Butanol	14.84	18.28	24.8	73.7	70	130	*
41)	Benzene	14.99	23.74	27.0	87.9	70	130	*
42)	Carbon Tetrachloride	15.21	24.10	26.0	92.7	70	130	*
43)	Cyclohexane	15.41	23.71	26.8	88.5	70	130	*
44)	tert-Amyl Methyl Ether	15.87	23.78	26.0	91.5	70	130	*
45)	1,2-Dichloropropane	16.20	23.71	26.5	89.5	70	130	*
46)	Bromodichloromethane	16.46	25.75	27.8	92.6	70	130	*
47)	Trichloroethene	16.54	22.03	27.3	80.7	70	130	*
48)	1,4-Dioxane	16.49	24.49	27.5	89.1	70	130	*
49)	Isooctane	16.62	23.62	26.3	89.8	70	130	*
50)	Methyl Methacrylate	16.80	24.34	25.8	94.4	70	130	*
51)	n-Heptane	16.98	24.09	26.8	89.9	70	130	*
52)	cis-1,3-Dichloropropene	17.73	23.86	25.0	95.4	70	130	*
53)	4-Methyl-2-pentanone	17.77	23.00	27.5	83.6	70	130	*
54)	trans-1,3-Dichloropropene	18.43	27.75	28.0	99.1	70	130	*
55)	1,1,2-Trichloroethane	18.67	23.69	26.3	90.1	70	130	*
58)	Toluene	19.07	23.62	26.5	89.1	70	130	*
59)	2-Hexanone	19.37	22.16	26.3	84.3	70	130	*
60)	Dibromochloromethane	19.60	25.76	27.0	95.4	70	130	*
61)	1,2-Dibromoethane	19.93	24.34	26.3	92.6	70	130	*
62)	Butyl Acetate	20.19	24.32	26.3	92.5	70	130	*
63)	n-Octane	20.35	23.99	26.0	92.3	70	130	*
64)	Tetrachloroethene	20.55	22.94	26.0	88.2	70	130	*
65)	Chlorobenzene	21.41	23.70	26.5	89.4	70	130	*
66)	Ethylbenzene	21.89	23.87	26.3	90.8	70	130	*
67)	m- & p-Xylene	22.13	56.59	62.5	90.6	70	130	*
68)	Bromoform	22.21	32.26	31.3	103.1	70	130	*
69)	Styrene	22.57	24.22	26.3	92.1	70	130	*
70)	o-Xylene	22.72	26.68	29.8	89.5	70	130	*
71)	n-Nonane	22.98	23.86	26.0	91.8	70	130	*
72)	1,1,2,2-Tetrachloroethane	22.69	29.81	29.8	100.0	70	130	*
74)	Cumene	23.47	24.69	27.0	91.5	70	130	*
75)	alpha-Pinene	23.97	23.75	26.3	90.3	70	130	*
76)	n-Propylbenzene	24.10	24.24	26.3	92.2	70	130	*
77)	3-Ethyltoluene	24.23	23.82	25.5	93.4	70	130	*

*Post 22/08*

**INITIAL CALIBRATION VERIFICATION CHECK SHEET**

Data File Name: **05220809.D**  
 Data File Path: **J:\MS13\DATA\2008\_05\22\**  
 Operator: **RTB**  
 Date Acquired: **5/22/08 8:41**  
 Acq. Method File: **TO15.M**  
 Sample Name: **25ng TO-15 ICV Standard**  
 Misc Info: **S20-04300802/S20-04290803**  
 Instrument Name: **GCMS13**

#	Name <u>Compound</u>	Ret. <u>Time</u>	Amt. <u>(ng)</u>	Spike <u>Amt.(ng)</u>	% <u>Rec.</u>	Lower <u>Limit</u>	Upper <u>Limit</u>	* OR <u>Fail</u>
78)	<b>4-Ethyltoluene</b>	<b>24.28</b>	<b>24.18</b>	<b>26.5</b>	<b>91.2</b>	<b>70</b>	<b>130</b>	*
79)	<b>1,3,5-Trimethylbenzene</b>	<b>24.37</b>	<b>23.25</b>	<b>26.0</b>	<b>89.4</b>	<b>70</b>	<b>130</b>	*
80)	alpha-Methylstyrene	24.56	21.61	25.5	84.7	70	130	*
81)	2-Ethyltoluene	24.61	23.06	24.8	93.0	70	130	*
82)	<b>1,2,4-Trimethylbenzene</b>	<b>24.88</b>	<b>24.02</b>	<b>26.0</b>	<b>92.4</b>	<b>70</b>	<b>130</b>	*
83)	n-Decane	24.98	24.63	26.3	93.7	70	130	*
84)	<b>Benzyl Chloride</b>	<b>25.05</b>	<b>29.45</b>	<b>25.8</b>	<b>114.2</b>	<b>70</b>	<b>130</b>	*
85)	<b>1,3-Dichlorobenzene</b>	<b>25.08</b>	<b>23.25</b>	<b>25.5</b>	<b>91.2</b>	<b>70</b>	<b>130</b>	*
86)	<b>1,4-Dichlorobenzene</b>	<b>25.16</b>	<b>24.17</b>	<b>26.3</b>	<b>91.9</b>	<b>70</b>	<b>130</b>	*
87)	sec-Butylbenzene	25.21	24.59	26.8	91.8	70	130	*
88)	p-Isopropyltoluene	25.40	27.70	28.8	96.2	70	130	*
89)	1,2,3-Trimethylbenzene	25.41	25.90	28.5	90.9	70	130	*
90)	<b>1,2-Dichlorobenzene</b>	<b>25.58</b>	<b>23.53</b>	<b>25.8</b>	<b>91.2</b>	<b>70</b>	<b>130</b>	*
91)	d-Limonene	25.58	20.99	26.0	80.7	70	130	*
92)	<b>1,2-Dibromo-3-Chloropropane</b>	<b>26.11</b>	<b>27.44</b>	<b>25.8</b>	<b>106.3</b>	<b>70</b>	<b>130</b>	*
93)	n-Undecane	26.50	24.78	26.5	93.5	70	130	*
94)	<b>1,2,4-Trichlorobenzene</b>	<b>27.63</b>	<b>24.79</b>	<b>26.0</b>	<b>95.3</b>	<b>70</b>	<b>130</b>	*
95)	<b>Naphthalene</b>	<b>27.77</b>	<b>24.08</b>	<b>26.3</b>	<b>91.6</b>	<b>70</b>	<b>130</b>	*
96)	n-Dodecane	27.74	24.15	26.5	91.1	70	130	*
97)	<b>Hexachloro-1,3-butadiene</b>	<b>28.19</b>	<b>23.94</b>	<b>26.3</b>	<b>91.0</b>	<b>70</b>	<b>130</b>	*

**Bold = 67 Compound List**

*RTB*  
5/22/08

Method Path : J:\MS13\METHODS\  
Method File : S13052208.M  
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
Last Update : Sun May 25 20:31:38 2008  
Response Via : Initial Calibration

Calibration Files

0.1 =05220802.D 0.5 =05220803.D 1.0 =05220804.D 5.0 =05220805.D  
25 =05220806.D 50 =05220807.D 100 =05220808.D

Compound	0.1	0.5	1.0	5.0	25	50	100	AVG	%RSD
1) IR Bromochloromethane (I									
2) S 1,2-Dichloroethane-	1.794	1.789	1.787	1.711	1.716	1.686	1.643	1.732	3.40
3) IR 1,4-Difluorobenzene (									
4) I Chlorobenzene-d5 (IS3									
5) S Toluene-d8 (SS2)	2.281	2.276	2.255	2.249	2.226	2.198	2.231	2.245	1.31
6) S Bromofluorobenzene	0.879	0.895	0.904	0.922	0.931	0.923	0.937	0.913	2.31
7) tert-Butylbenzene	2.735	3.218	2.885	2.855	3.140	3.024	2.693	2.936	6.77
8) n-Butylbenzene	2.864	3.570	3.351	3.289	3.496	3.275	2.882	3.247	8.53

(#) = Out of Range

1344

RA 5/26/08



Method Path : J:\MS13\METHODS\  
 Method File : S13052208.M  
 Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 Last Update : Sun May 25 20:32:30 2008  
 Response Via : Initial Calibration

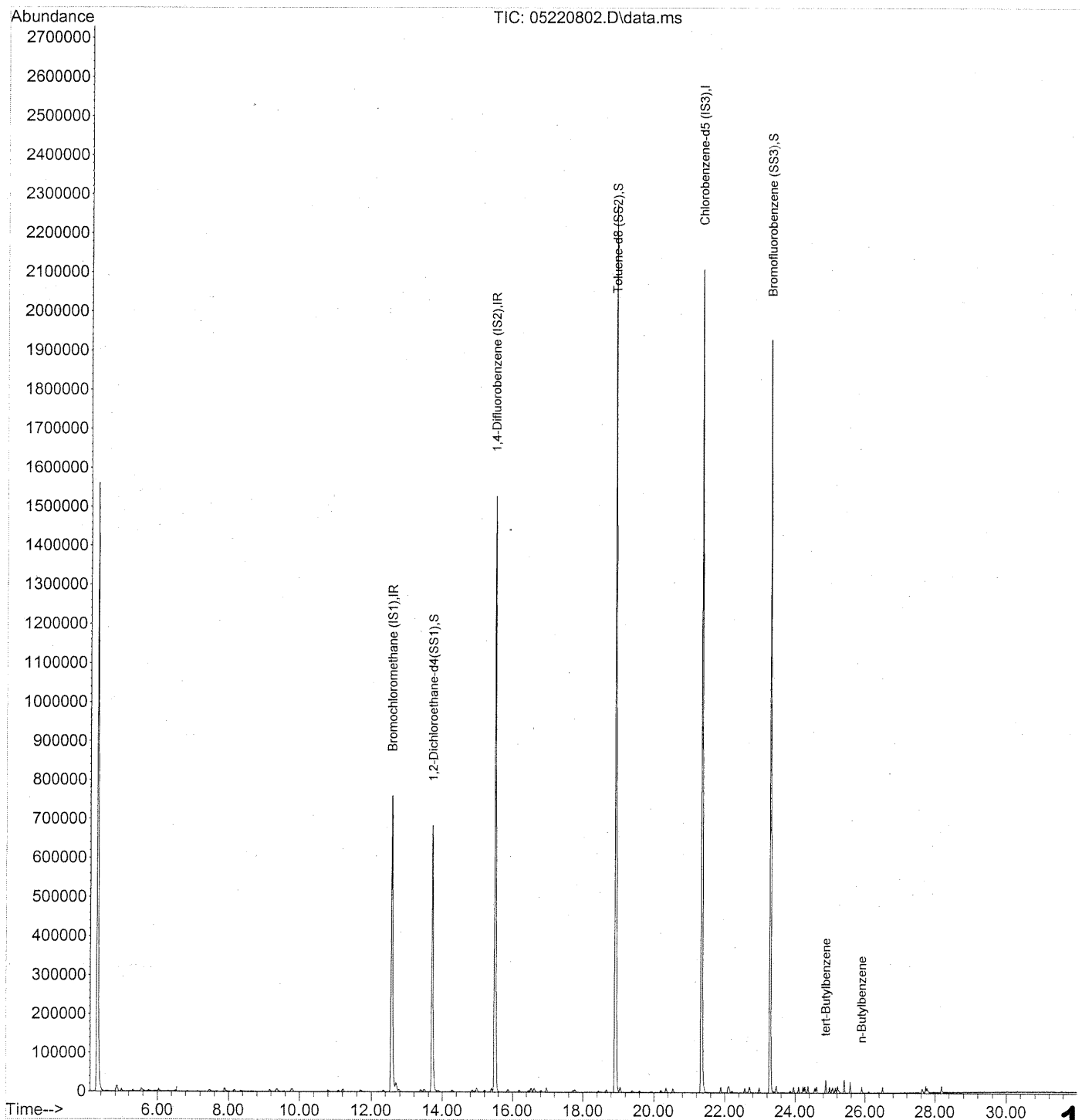
#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS13\DATA\2008_05\22\05220802.D
2	0.5	1	25	J:\MS13\DATA\2008_05\22\05220803.D
3	1.0	1	25	J:\MS13\DATA\2008_05\22\05220804.D
4	5.0	5	25	J:\MS13\DATA\2008_05\22\05220805.D
5	25	26	25	J:\MS13\DATA\2008_05\22\05220806.D
6	50	52	25	J:\MS13\DATA\2008_05\22\05220807.D
7	100	104	25	J:\MS13\DATA\2008_05\22\05220808.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 25 20:26 2008	May 25 20:25 2008	22 May 2008 3:56
2	0.5	May 25 20:27 2008	May 25 20:25 2008	22 May 2008 4:37
3	1.0	May 25 20:28 2008	May 25 20:25 2008	22 May 2008 5:18
4	5.0	May 25 20:29 2008	May 25 20:25 2008	22 May 2008 5:58
5	25	May 25 20:30 2008	May 25 20:25 2008	22 May 2008 6:39
6	50	May 25 20:31 2008	May 25 20:25 2008	22 May 2008 7:20
7	100	May 25 20:31 2008	May 25 20:25 2008	22 May 2008 8:01

S13052208.M Sun May 25 20:42:55 2008

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 25 20:25:01 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220802.D  
 Acq On : 22 May 2008 3:56  
 Operator : RTB  
 Sample : 0.1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210809  
 ALS Vial : 15 Sample Multiplier: 1

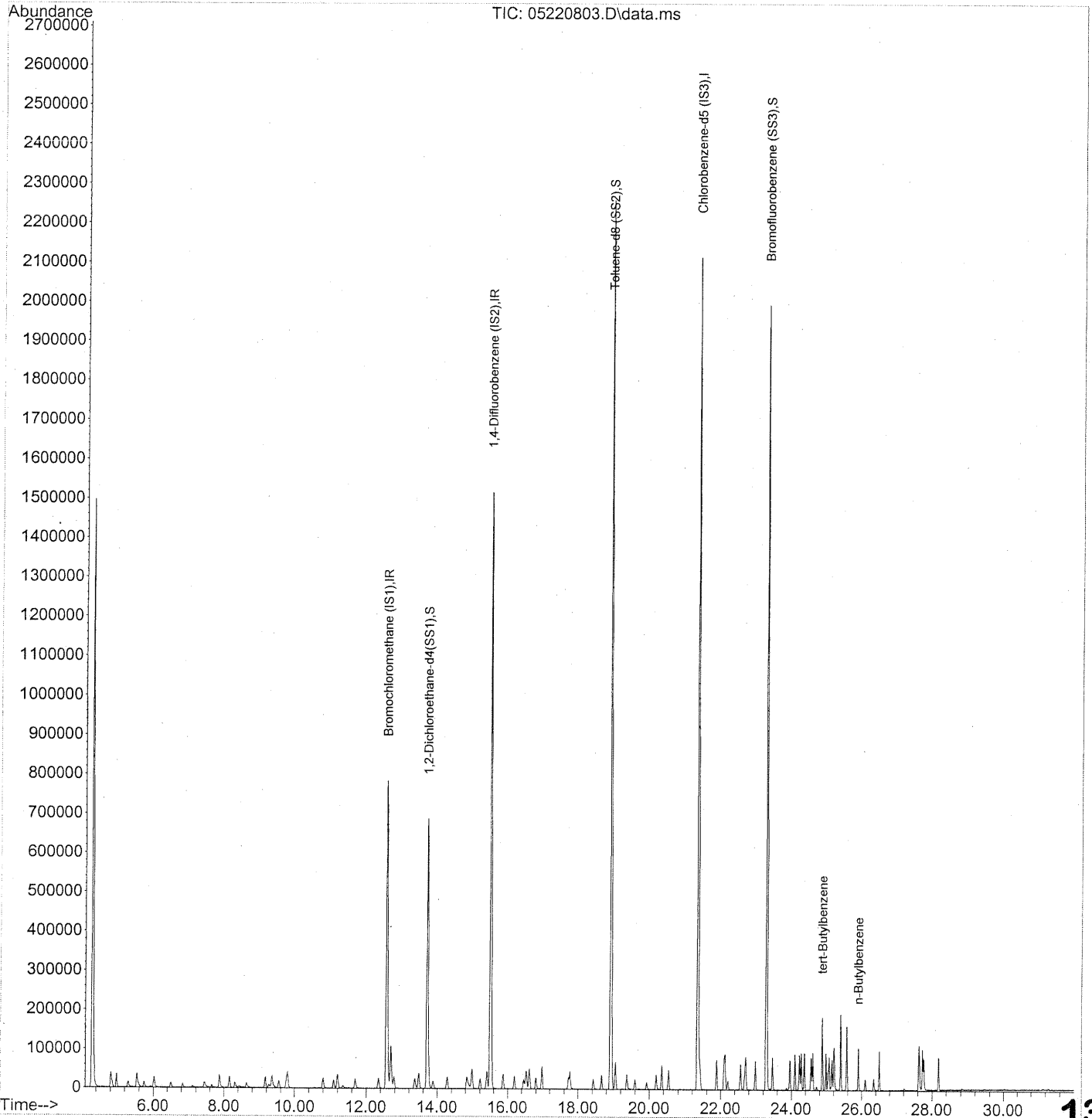
Quant Time: May 25 20:25:01 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	391084	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1729052	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	807664	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.72	65	701754	22.375	ng	-0.03
Spiked Amount	25.000					Recovery = 89.48%
5) Toluene-d8 (SS2)	18.92	98	1842585	25.453	ng	-0.01
Spiked Amount	25.000					Recovery = 101.80%
6) Bromofluorobenzene (SS3)	23.29	174	709723	28.489	ng	0.00
Spiked Amount	25.000					Recovery = 113.96%
Target Compounds						
7) tert-Butylbenzene	24.88	119	9190	0.104	ng	Qvalue 99
8) n-Butylbenzene	25.91	91	9900	0.104	ng	98

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

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220803.D  
Acq On : 22 May 2008 4:37  
Operator : RTB  
Sample : 0.5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:04 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Mon Apr 28 10:06:00 2008  
Response via : Initial Calibration



1348

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220803.D  
 Acq On : 22 May 2008 4:37  
 Operator : RTB  
 Sample : 0.5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

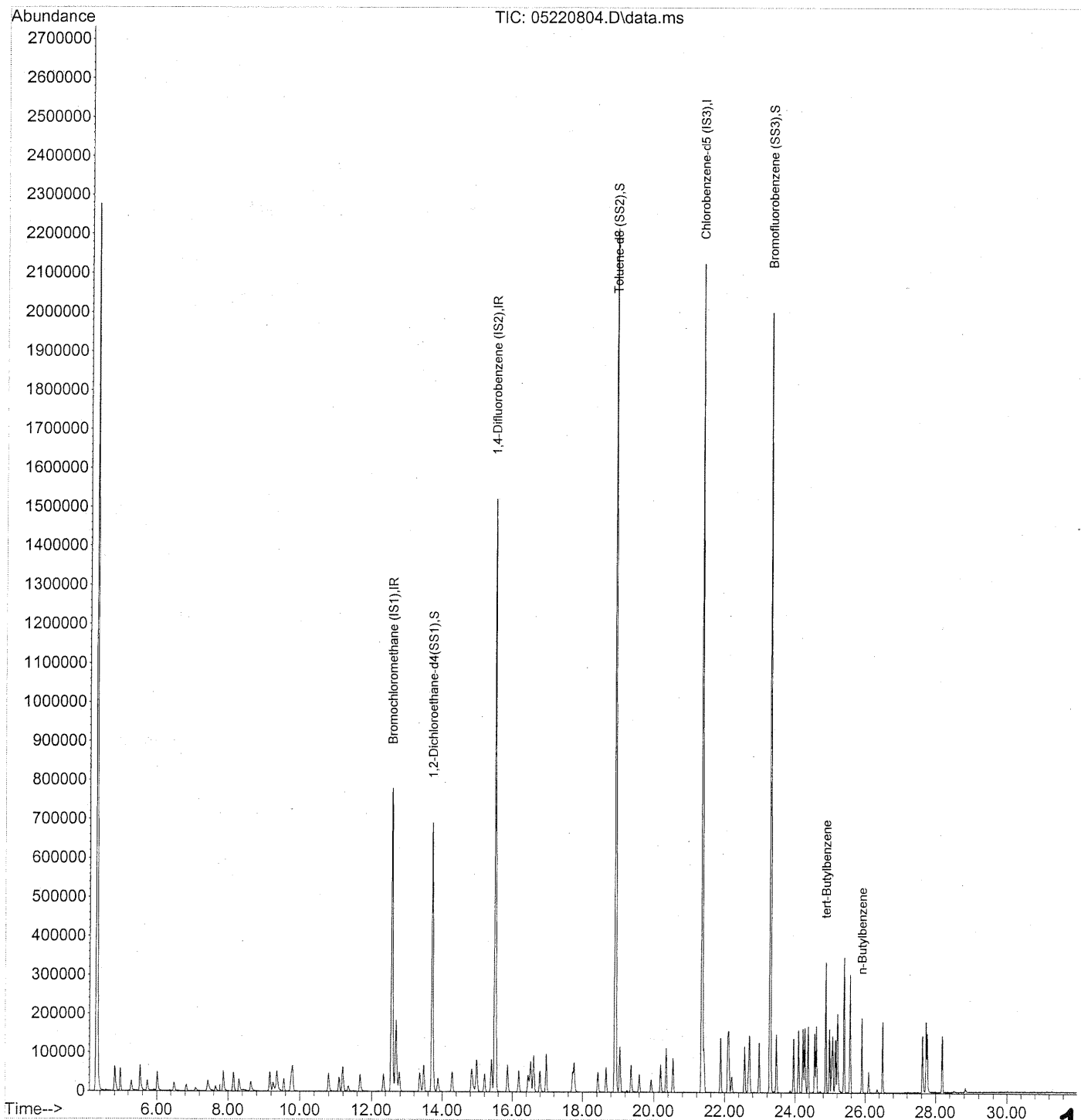
Quant Time: May 25 20:25:04 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	390197	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1721246	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	802715	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	697916	22.303	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.20%	
5) Toluene-d8 (SS2)	18.92	98	1826728	25.389	ng	-0.01
Spiked Amount	25.000		Recovery	=	101.56%	
6) Bromofluorobenzene (SS3)	23.29	174	718304	29.011	ng	0.00
Spiked Amount	25.000		Recovery	=	116.04%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	53731	0.611	ng	Qvalue 100
8) n-Butylbenzene	25.91	91	61321	0.647	ng	98

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

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:09 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration



1350

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220804.D  
 Acq On : 22 May 2008 5:18  
 Operator : RTB  
 Sample : 1ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

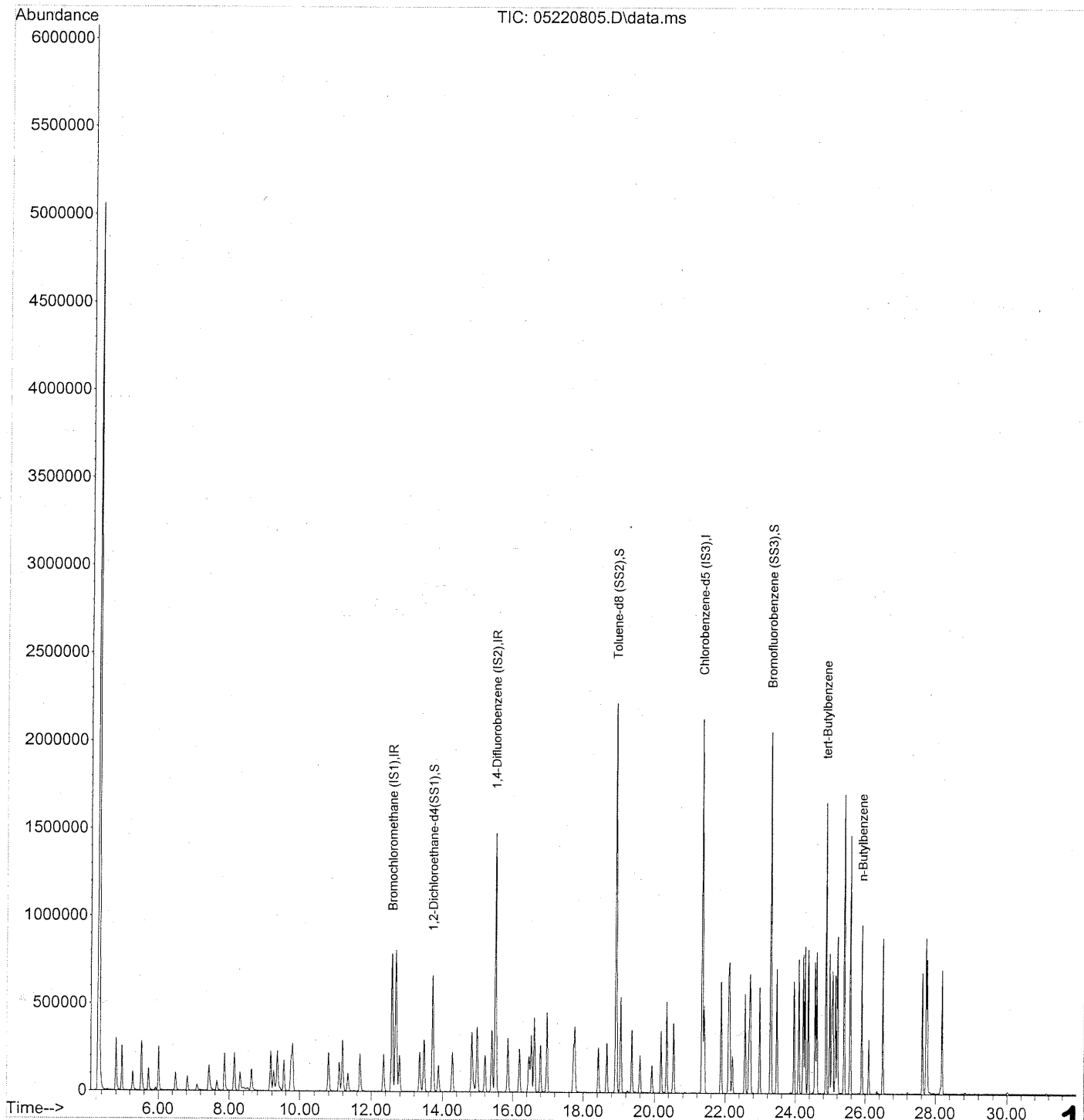
Quant Time: May 25 20:25:09 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	387850	25.000	ng	-0.03
3) 1,4-Difluorobenzene (IS2)	15.51	114	1717781	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	808909	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	693031	22.281	ng	-0.03
Spiked Amount	25.000		Recovery	=	89.12%	
5) Toluene-d8 (SS2)	18.92	98	1824190	25.160	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.64%	
6) Bromofluorobenzene (SS3)	23.29	174	731633	29.323	ng	0.00
Spiked Amount	25.000		Recovery	=	117.28%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	97077	1.096	ng	Qvalue 100
8) n-Butylbenzene	25.91	91	116000	1.214	ng	96

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

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220805.D  
Acq On : 22 May 2008 5:58  
Operator : RTB  
Sample : 5ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210806  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:14 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Mon Apr 28 10:06:00 2008  
Response via : Initial Calibration



1352



Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220805.D  
 Acq On : 22 May 2008 5:58  
 Operator : RTB  
 Sample : 5ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210806  
 ALS Vial : 4 Sample Multiplier: 1

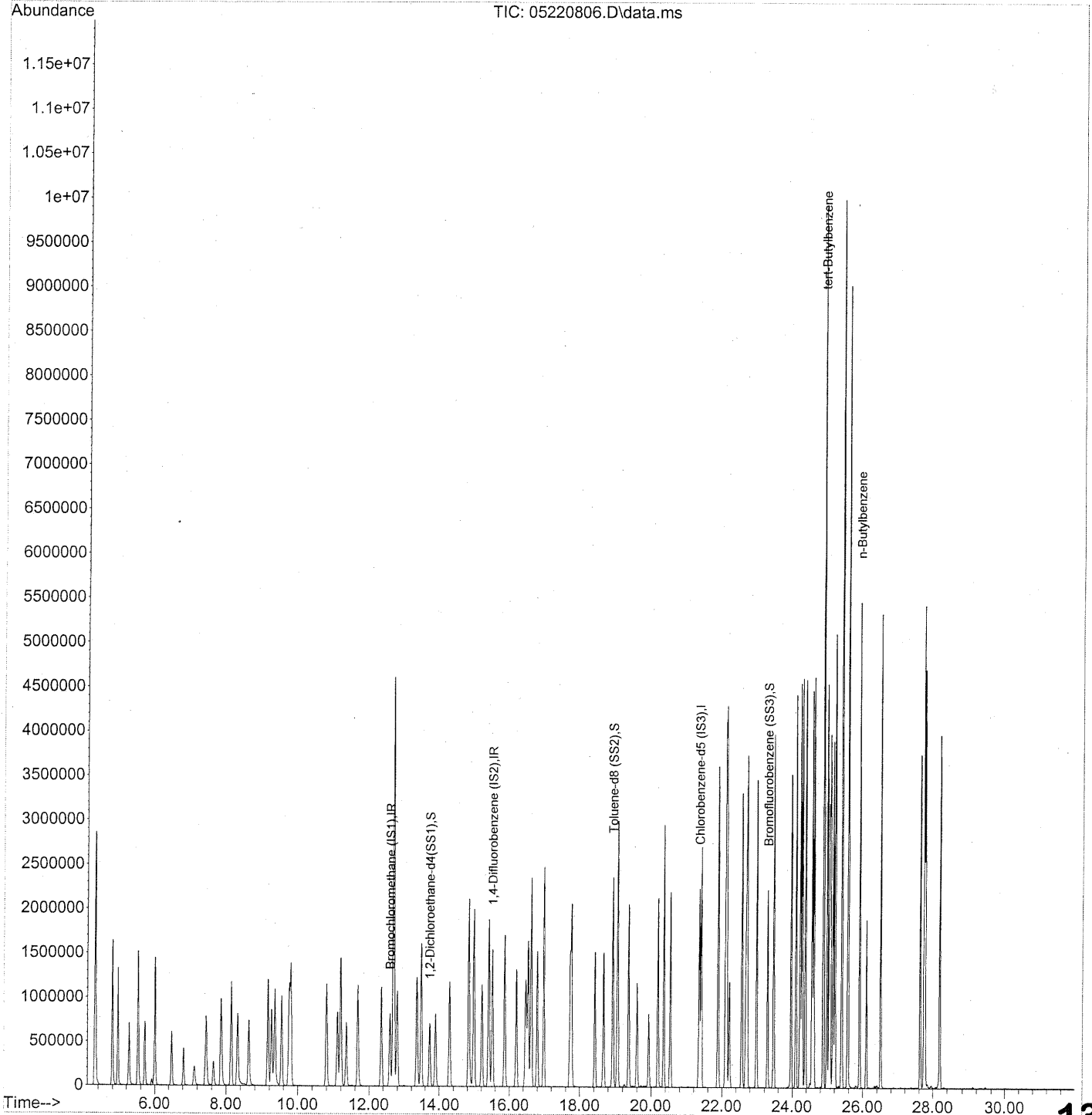
Quant Time: May 25 20:25:14 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	392159	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1692913	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	804687	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.73	65	670984	21.335	ng	-0.02
Spiked Amount	25.000		Recovery	=	85.36%	
5) Toluene-d8 (SS2)	18.93	98	1810051	25.096	ng	0.00
Spiked Amount	25.000		Recovery	=	100.40%	
6) Bromofluorobenzene (SS3)	23.29	174	741734	29.884	ng	0.00
Spiked Amount	25.000		Recovery	=	119.52%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	477896	5.424	ng	99
8) n-Butylbenzene	25.91	91	566409	5.958	ng	96

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

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220806.D  
 Acq On : 22 May 2008 6:39  
 Operator : RTB  
 Sample : 25ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:18 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration



1354

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220806.D  
 Acq On : 22 May 2008 6:39  
 Operator : RTB  
 Sample : 25ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

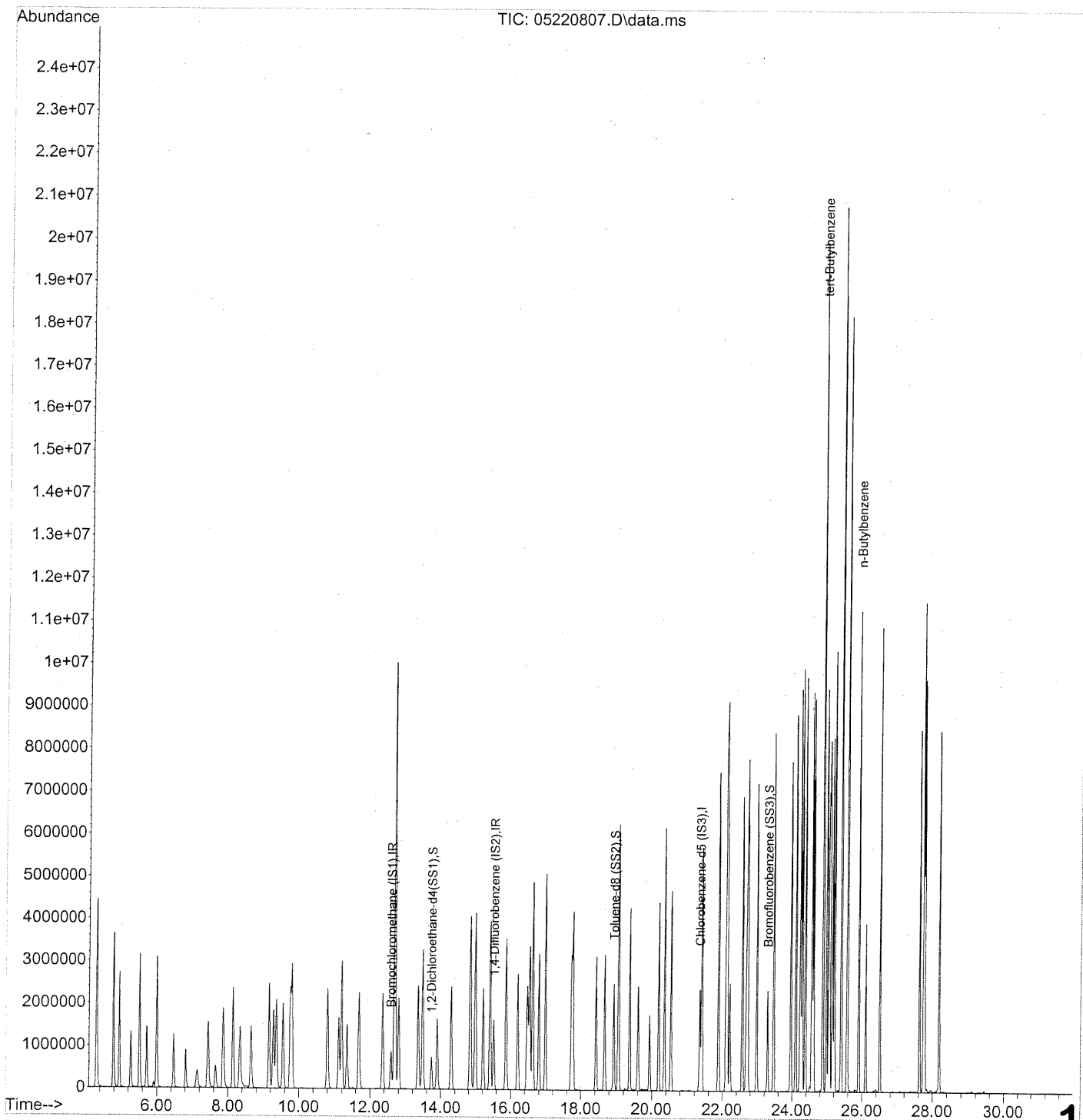
Quant Time: May 25 20:25:18 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	416973	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	1789357	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	864655	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.73	65	715546	21.398	ng	-0.02
Spiked Amount	25.000		Recovery	=	85.60%	
5) Toluene-d8 (SS2)	18.93	98	1925065	24.839	ng	0.00
Spiked Amount	25.000		Recovery	=	99.36%	
6) Bromofluorobenzene (SS3)	23.29	174	804956	30.182	ng	0.00
Spiked Amount	25.000		Recovery	=	120.72%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	2823383	29.820	ng	99
8) n-Butylbenzene	25.91	91	3240519	31.722	ng	97

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

Data Path : J:\MS13\DATA\2008\_05\22\  
Data File : 05220807.D  
Acq On : 22 May 2008 7:20  
Operator : RTB  
Sample : 50ng TO-15 ICAL Standard  
Misc : S20-04300802/S20-05210804  
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:22 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Mon Apr 28 10:06:00 2008  
Response via : Initial Calibration



1356

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220807.D  
 Acq On : 22 May 2008 7:20  
 Operator : RTB  
 Sample : 50ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

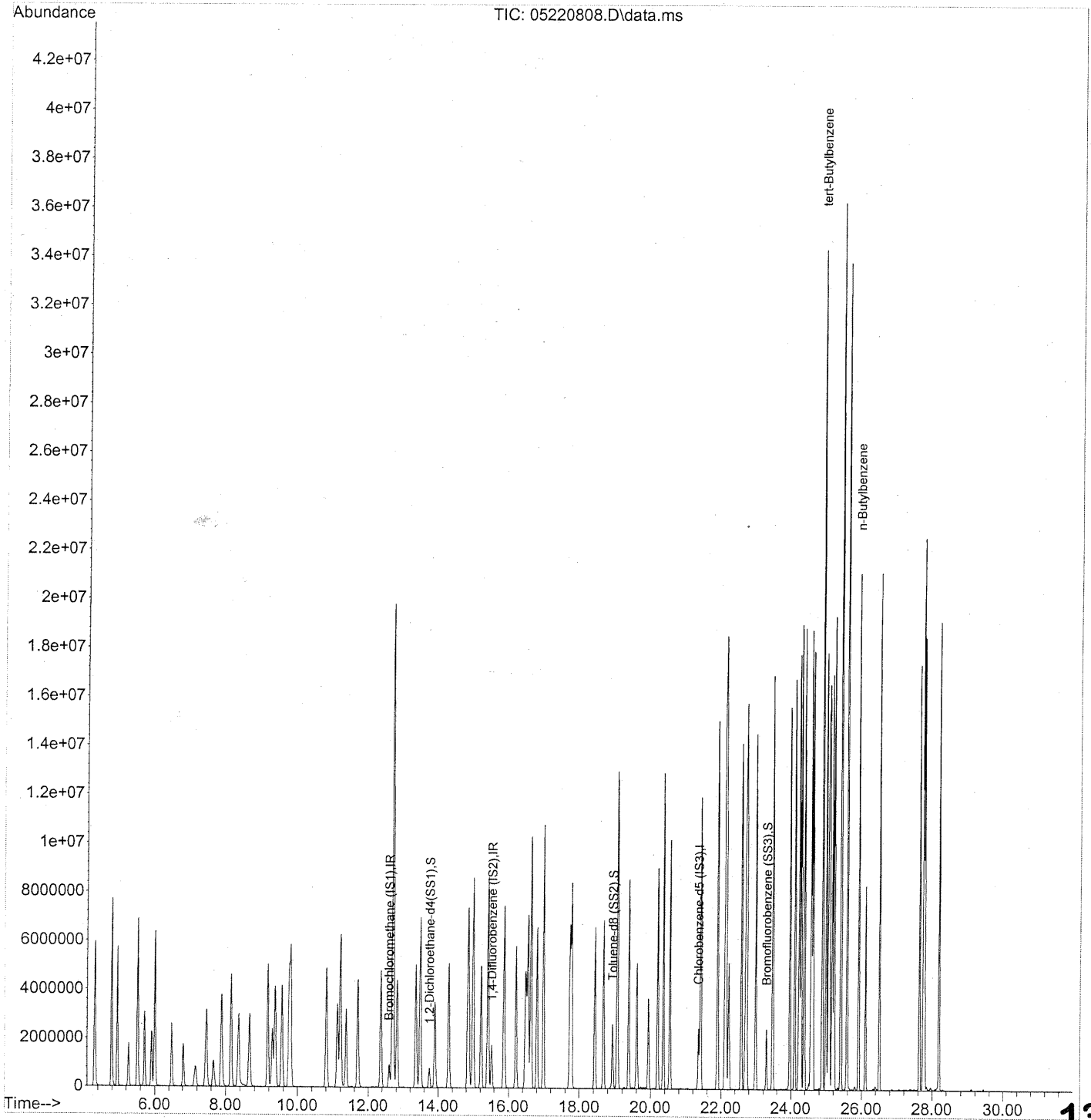
Quant Time: May 25 20:25:22 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	454188	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.53	114	1924432	25.000	ng	0.00
4) Chlorobenzene-d5 (IS3)	21.36	82	936145	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.74	65	765682	21.021	ng	-0.01
Spiked Amount	25.000		Recovery	=	84.08%	
5) Toluene-d8 (SS2)	18.93	98	2057293	24.518	ng	0.00
Spiked Amount	25.000		Recovery	=	98.08%	
6) Bromofluorobenzene (SS3)	23.29	174	864419	29.936	ng	0.00
Spiked Amount	25.000		Recovery	=	119.76%	
Target Compounds						
7) tert-Butylbenzene	24.89	119	5887817	57.437	ng	99
8) n-Butylbenzene	25.91	91	6561385	59.326	ng	99

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

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220808.D  
 Acq On : 22 May 2008 8:01  
 Operator : RTB  
 Sample : 100ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 25 20:25:27 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration



1358

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220808.D  
 Acq On : 22 May 2008 8:01  
 Operator : RTB  
 Sample : 100ng TO-15 ICAL Standard  
 Misc : S20-04300802/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

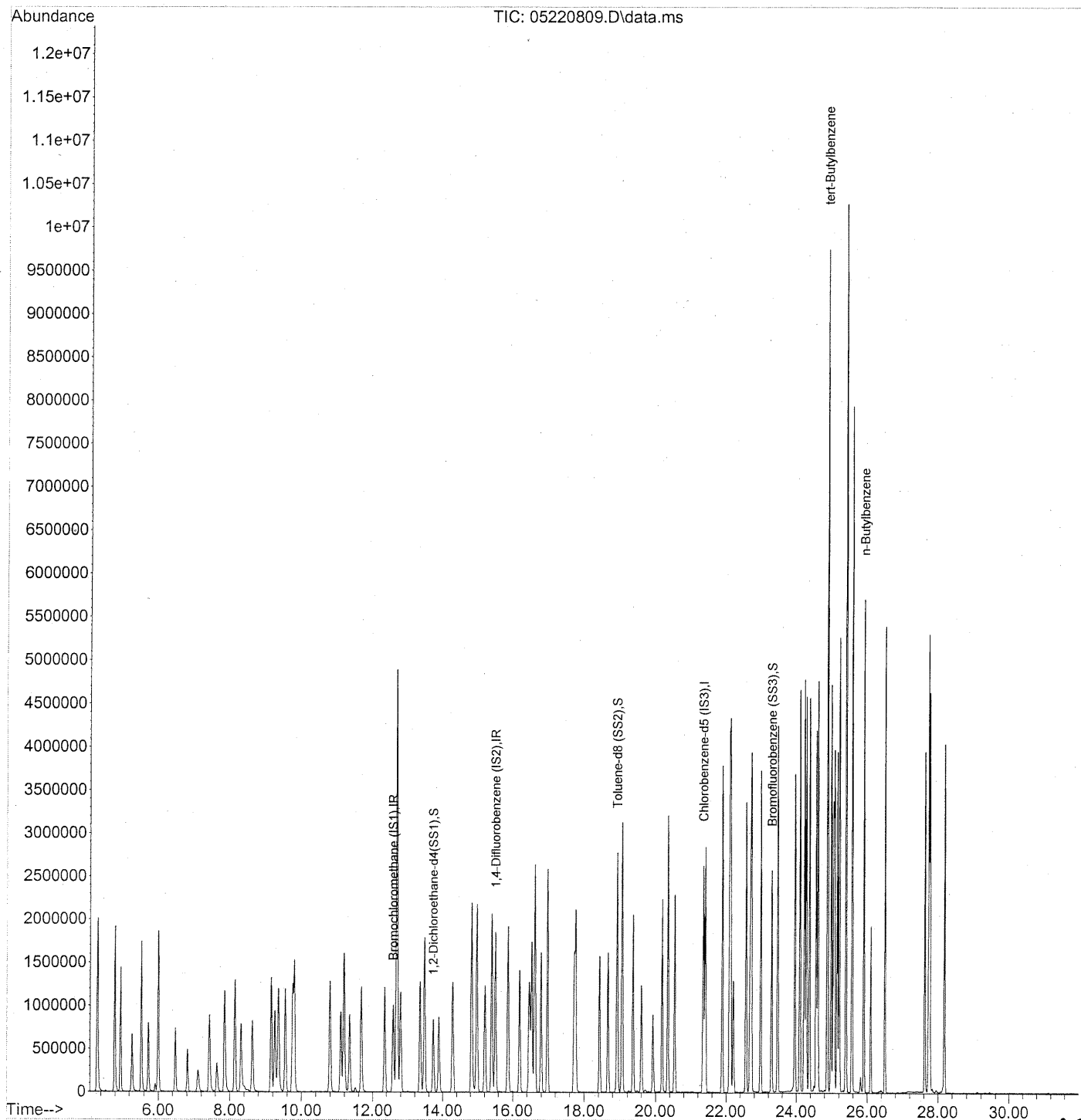
Quant Time: May 25 20:25:27 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Mon Apr 28 10:06:00 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.60	130	499844	25.000	ng	0.00
3) 1,4-Difluorobenzene (IS2)	15.53	114	2090195	25.000	ng	0.00
4) Chlorobenzene-d5 (IS3)	21.36	82	998042	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.75	65	821224	20.487	ng	0.00
Spiked Amount	25.000		Recovery	=	81.96%	
5) Toluene-d8 (SS2)	18.94	98	2226768	24.892	ng	0.00
Spiked Amount	25.000		Recovery	=	99.56%	
6) Bromofluorobenzene (SS3)	23.30	174	935196	30.378	ng	0.00
Spiked Amount	25.000		Recovery	=	121.52%	
Target Compounds						
7) tert-Butylbenzene	24.89	119	11182254	102.320	ng	Qvalue 98
8) n-Butylbenzene	25.92	91	12309412	104.395	ng	95

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

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220809.D  
 Acq On : 22 May 2008 8:41  
 Operator : RTB  
 Sample : 25ng TO-15 ICV Standard  
 Misc : S20-04300802/S20-04290803  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220809.D  
 Acq On : 22 May 2008 8:41  
 Operator : RTB  
 Sample : 25ng TO-15 ICV Standard  
 Misc : S20-04300802/S20-04290803  
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 25 20:33:14 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.59	130	526986	25.000	ng	-0.01
3) 1,4-Difluorobenzene (IS2)	15.52	114	2202027	25.000	ng	-0.01
4) Chlorobenzene-d5 (IS3)	21.35	82	1025095	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4 (...)	13.73	65	856754	23.463	ng	-0.02
Spiked Amount	25.000		Recovery	=	93.84%	
5) Toluene-d8 (SS2)	18.93	98	2305788	25.046	ng	-0.01
Spiked Amount	25.000		Recovery	=	100.20%	
6) Bromofluorobenzene (SS3)	23.29	174	957507	25.576	ng	0.00
Spiked Amount	25.000		Recovery	=	102.32%	
Target Compounds						
7) tert-Butylbenzene	24.88	119	2937403	24.402	ng	98
8) n-Butylbenzene	25.91	91	3302624	24.809	ng	98

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: 05220809.D  
Data File Path: J:\MS13\DATA\2008\_05\22\  
Operator: RTB  
Date Acquired: 5/22/08 8:41  
Acq. Method File: TO15.M  
Sample Name: 25ng TO-15 ICV Standard  
Misc Info: S20-04300802/S20-04290803  
Instrument Name: GCMS13

#	<u>Name</u> <u>Compound</u>	<u>Ret.</u> <u>Time</u>	<u>Amt.</u> <u>(ng)</u>	<u>Spike</u> <u>Amt.(ng)</u>	<u>%</u> <u>Rec.</u>	<u>Lower</u> <u>Limit</u>	<u>Upper</u> <u>Limit</u>	<u>* OR</u> <u>Fail</u>
7)	tert-Butylbenzene	24.88	24.40	26.3	92.8	70	130	*
8)	n-Butylbenzene	25.91	24.81	26.8	92.6	70	130	*

*RTB 5/26/08*

CONTINUING CALIBRATION STANDARDS

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR Bromochloromethane (IS1)	1.000	1.000	0.0	79	0.00
2 T Propene	1.974	1.653	16.3	77	0.00
3 T Dichlorodifluoromethane	3.639	3.163	13.1	73	0.00
4 T Chloromethane	2.357	1.989	15.6	78	0.00
5 T Freon 114	1.790	1.550	13.4	75	0.00
6 T Vinyl Chloride	2.358	2.125	9.9	78	-0.01
7 T 1,3-Butadiene	1.754	1.675	4.5	79	0.00
8 T Bromomethane	1.313	1.199	8.7	82	0.00
9 T Chloroethane	1.120	1.043	6.9	79	0.00
10 T Ethanol	1.314	1.177	10.4	82	-0.01
11 T Acetonitrile	3.801	3.216	15.4	77	0.00
12 T Acrolein	0.939	0.856	8.8	80	0.00
13 T Acetone	1.346	1.195	11.2	80	0.00
14 T Trichlorofluoromethane	3.122	2.660	14.8	72	0.00
15 T Isopropanol	4.292	3.510	18.2	78	0.00
16 T Acrylonitrile	2.049	1.859	9.3	76	0.00
17 T 1,1-Dichloroethene	1.373	1.216	11.4	75	-0.01
18 T tert-Butanol	3.651	3.500	4.1	79	0.00
19 T Methylene Chloride	1.504	1.296	13.8	76	0.00
20 T Allyl Chloride	2.007	2.021	-0.7	82	0.00
21 T Trichlorotrifluoroethane	1.420	1.269	10.6	78	0.00
22 T Carbon Disulfide	5.707	4.940	13.4	76	0.00
23 T trans-1,2-Dichloroethene	2.225	1.995	10.3	76	0.00
24 T 1,1-Dichloroethane	2.610	2.298	12.0	74	0.00
25 T Methyl tert-Butyl Ether	4.352	3.894	10.5	75	0.00
26 T Vinyl Acetate	0.249	0.230	7.6	87	0.00
27 T 2-Butanone	0.982	0.861	12.3	76	0.00
28 T cis-1,2-Dichloroethene	2.126	1.843	13.3	74	0.00
29 T Diisopropyl Ether	1.204	1.020	15.3	73	0.00
30 T Ethyl Acetate	0.530	0.472	10.9	75	0.00
31 T n-Hexane	2.676	2.287	14.5	72	0.00
32 T Chloroform	2.280	1.931	15.3	73	0.00
33 S 1,2-Dichloroethane-d4 (SS1)	1.732	1.608	7.2	74	0.00
34 T Tetrahydrofuran	0.939	0.845	10.0	76	0.00
35 T Ethyl tert-Butyl Ether	1.686	1.483	12.0	74	0.00
36 T 1,2-Dichloroethane	2.202	1.866	15.3	72	-0.01
37 IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	78	0.00
38 T 1,1,1-Trichloroethane	0.569	0.499	12.3	73	0.00

00 5/30/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	0.214	0.199	7.0	76	-0.01
40 T	1-Butanol	0.344	0.322	6.4	77	0.00
41 T	Benzene	1.309	1.134	13.4	73	0.00
42 T	Carbon Tetrachloride	0.504	0.452	10.3	73	0.00
43 T	Cyclohexane	0.509	0.447	12.2	74	0.00
44 T	tert-Amyl Methyl Ether	0.939	0.843	10.2	74	0.00
45 T	1,2-Dichloropropane	0.350	0.308	12.0	75	0.00
46 T	Bromodichloromethane	0.442	0.390	11.8	72	0.00
47 T	Trichloroethene	0.402	0.331	17.7	73	0.00
48 T	1,4-Dioxane	0.247	0.224	9.3	76	0.00
49 T	Isooctane	1.501	1.301	13.3	73	0.00
50 T	Methyl Methacrylate	0.131	0.120	8.4	75	0.00
51 T	n-Heptane	0.348	0.313	10.1	74	0.00
52 T	cis-1,3-Dichloropropene	0.520	0.478	8.1	75	0.00
53 T	4-Methyl-2-pentanone	0.348	0.311	10.6	73	0.00
54 T	trans-1,3-Dichloropropene	0.449	0.429	4.5	77	0.00
55 T	1,1,2-Trichloroethane	0.323	0.289	10.5	74	0.00
56 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	76	0.00
57 S	Toluene-d8 (SS2)	2.245	2.269	-1.1	76	0.00
58 T	Toluene	3.052	2.754	9.8	73	0.00
59 T	2-Hexanone	2.103	1.944	7.6	71	0.00
60 T	Dibromochloromethane	0.824	0.771	6.4	74	0.00
61 T	1,2-Dibromoethane	0.799	0.738	7.6	73	0.00
62 T	Butyl Acetate	2.135	1.964	8.0	72	0.00
63 T	n-Octane	0.675	0.607	10.1	73	0.00
64 T	Tetrachloroethene	0.903	0.814	9.9	75	0.00
65 T	Chlorobenzene	2.046	1.836	10.3	72	0.00
66 T	Ethylbenzene	3.500	3.200	8.6	72	0.00
67 T	m- & p-Xylene	2.341	2.114	9.7	72	0.00
68 T	Bromoform	0.613	0.593	3.3	75	0.00
69 T	Styrene	2.092	1.907	8.8	72	0.00
70 T	o-Xylene	2.527	2.259	10.6	71	0.00
71 T	n-Nonane	1.794	1.596	11.0	69	0.00
72 T	1,1,2,2-Tetrachloroethane	1.053	0.987	6.3	70	0.00
73 S	Bromofluorobenzene (SS3)	0.913	0.930	-1.9	76	0.00
74 T	Cumene	3.365	3.142	6.6	74	0.00
75 T	alpha-Pinene	1.740	1.561	10.3	72	0.00
76 T	n-Propylbenzene	4.282	4.001	6.6	73	0.00

1365

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T 3-Ethyltoluene	3.582	3.207	10.5	71	0.00
78 T 4-Ethyltoluene	3.339	3.114	6.7	70	0.00
79 T 1,3,5-Trimethylbenzene	3.017	2.681	11.1	70	0.00
80 T alpha-Methylstyrene	1.633	1.486	9.0	71	0.00
81 T 2-Ethyltoluene	3.630	3.513	3.2	74	0.00
82 T 1,2,4-Trimethylbenzene	3.071	2.768	9.9	70	0.00
83 T n-Decane	1.690	1.519	10.1	69	0.00
84 T Benzyl Chloride	2.061	2.041	1.0	75	0.00
85 T 1,3-Dichlorobenzene	1.920	1.743	9.2	71	0.00
86 T 1,4-Dichlorobenzene	1.861	1.711	8.1	71	0.00
87 T sec-Butylbenzene	3.925	3.559	9.3	69	0.00
88 T p-Isopropyltoluene	3.231	2.965	8.2	70	0.00
89 T 1,2,3-Trimethylbenzene	3.005	2.689	10.5	68	0.00
90 T 1,2-Dichlorobenzene	1.821	1.666	8.5	70	0.00
91 T d-Limonene	1.224	1.069	12.7	68	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.565	0.552	2.3	72	0.00
93 T n-Undecane	1.768	1.617	8.5	70	0.00
94 T 1,2,4-Trichlorobenzene	1.334	1.218	8.7	73	0.00
95 T Naphthalene	4.051	3.733	7.8	71	0.00
96 T n-Dodecane	1.759	1.566	11.0	70	0.00
97 T Hexachloro-1,3-butadiene	0.888	0.815	8.2	73	0.00

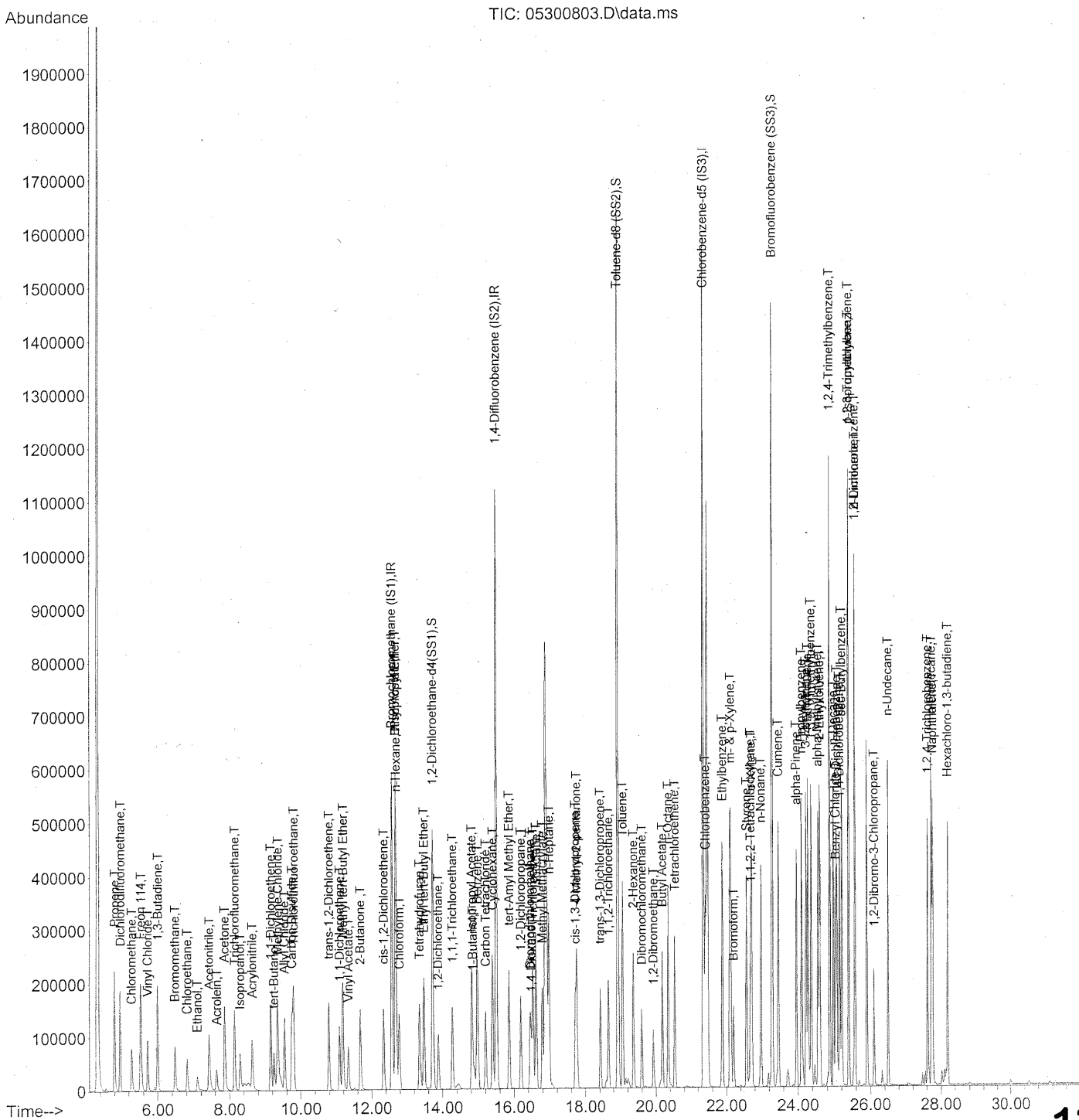
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

*WA 5/30/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300803.D  
Acq On : 30 May 2008 8:12  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	309690	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1316751	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	608553	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4(...)	13.72	65	498031	23.209	ng	0.00
Spiked Amount	25.000		Recovery	= 92.84%		
57) Toluene-d8 (SS2)	18.92	98	1380625	25.261	ng	0.00
Spiked Amount	25.000		Recovery	= 101.04%		
73) Bromofluorobenzene (SS3)	23.29	174	566015	25.468	ng	0.00
Spiked Amount	25.000		Recovery	= 101.88%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	110557	4.520	ng	90
3) Dichlorodifluoromethane	4.96	85	203760	4.520	ng	99
4) Chloromethane	5.28	50	125636	4.304	ng	97
5) Freon 114	5.53	135	102705	4.631	ng	99
6) Vinyl Chloride	5.72	62	135545	4.640	ng	96
7) 1,3-Butadiene	6.00	54	113082	5.205	ng	# 80
8) Bromomethane	6.48	94	77981	4.794	ng	99
9) Chloroethane	6.82	64	67802	4.887	ng	95
10) Ethanol	7.09	45	66347m	4.075	ng	
11) Acetonitrile	7.43	41	195189	4.145	ng	97
12) Acrolein	7.64	56	50888	4.375	ng	99
13) Acetone	7.85	58	82138	4.927	ng	# 63
14) Trichlorofluoromethane	8.14	101	171351	4.430	ng	99
15) Isopropanol	8.30	45	223921m	4.211	ng	
16) Acrylonitrile	8.63	53	116274	4.581	ng	100
17) 1,1-Dichloroethene	9.15	96	85124	5.003	ng	# 78
18) tert-Butanol	9.24	59	221091m	4.889	ng	
19) Methylene Chloride	9.35	84	89907	4.826	ng	# 79
20) Allyl Chloride	9.54	41	131408	5.286	ng	99
21) Trichlorotrifluoroethane	9.81	151	89618	5.095	ng	91
22) Carbon Disulfide	9.76	76	305966	4.328	ng	97
23) trans-1,2-Dichloroethene	10.79	61	135921	4.932	ng	84
24) 1,1-Dichloroethane	11.09	63	157984	4.887	ng	96
25) Methyl tert-Butyl Ether	11.19	73	267725	4.966	ng	85
26) Vinyl Acetate	11.34	86	13965	4.533	ng	# 87
27) 2-Butanone	11.67	72	59728	4.909	ng	94
28) cis-1,2-Dichloroethene	12.34	61	126735	4.812	ng	83
29) Diisopropyl Ether	12.68	87	65097	4.366	ng	# 89
30) Ethyl Acetate	12.68	61	37109	5.650	ng	78
31) n-Hexane	12.70	57	158665	4.787	ng	90



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	154302	5.464	ng	98
34) Tetrahydrofuran	13.35	72	58113	4.996	ng #	89
35) Ethyl tert-Butyl Ether	13.48	87	96471	4.620	ng #	74
36) 1,2-Dichloroethane	13.88	62	127100	4.659	ng	97
38) 1,1,1-Trichloroethane	14.28	97	144632	4.823	ng	96
39) Isopropyl Acetate	14.82	61	52881	4.702	ng #	44
40) 1-Butanol	14.85	56	77215	4.266	ng #	63
41) Benzene	14.98	78	328489	4.764	ng	99
42) Carbon Tetrachloride	15.21	117	127318	4.795	ng	97
43) Cyclohexane	15.41	84	130529	4.867	ng #	74
44) tert-Amyl Methyl Ether	15.86	73	230807	4.667	ng	94
45) 1,2-Dichloropropane	16.19	63	88471	4.796	ng	99
46) Bromodichloromethane	16.45	83	118194	5.072	ng	98
47) Trichloroethene	16.53	130	99321	4.696	ng	98
48) 1,4-Dioxane	16.49	88	67720	5.208	ng	79
49) Isooctane	16.62	57	356246	4.507	ng	82
50) Methyl Methacrylate	16.79	100	33503	4.863	ng	90
51) n-Heptane	16.98	71	91436	4.991	ng #	79
52) cis-1,3-Dichloropropene	17.72	75	130887	4.776	ng	99
53) 4-Methyl-2-pentanone	17.76	58	85859	4.690	ng	78
54) trans-1,3-Dichloropropene	18.42	75	131094	5.545	ng	99
55) 1,1,2-Trichloroethane	18.67	97	82980	4.870	ng	98
58) Toluene	19.06	91	368682	4.963	ng	98
59) 2-Hexanone	19.36	43	241305	4.714	ng	83
60) Dibromochloromethane	19.60	129	104144	5.190	ng	98
61) 1,2-Dibromoethane	19.93	107	97876	5.033	ng	100
62) Butyl Acetate	20.18	43	251040	4.831	ng	87
63) n-Octane	20.35	57	76820	4.675	ng	88
64) Tetrachloroethene	20.54	166	107969	4.911	ng	99
65) Chlorobenzene	21.41	112	245800	4.935	ng	100
66) Ethylbenzene	21.89	91	420601	4.937	ng	95
67) m- & p-Xylene	22.12	91	663781	11.649	ng	92
68) Bromoform	22.21	173	94550	6.332	ng	99
69) Styrene	22.57	104	250726	4.922	ng	97
70) o-Xylene	22.71	91	335404	5.453	ng	93
71) n-Nonane	22.98	43	200101	4.582	ng #	83
72) 1,1,2,2-Tetrachloroethane	22.69	83	147827	5.766	ng	98
74) Cumene	23.46	105	413030	5.043	ng	98
75) alpha-Pinene	23.96	93	201432	4.756	ng	95
76) n-Propylbenzene	24.10	91	511322	4.906	ng	99
77) 3-Ethyltoluene	24.23	105	398098	4.566	ng	99
78) 4-Ethyltoluene	24.28	105	420720	5.176	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	352394	4.799	ng	99

1369

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:19:01 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

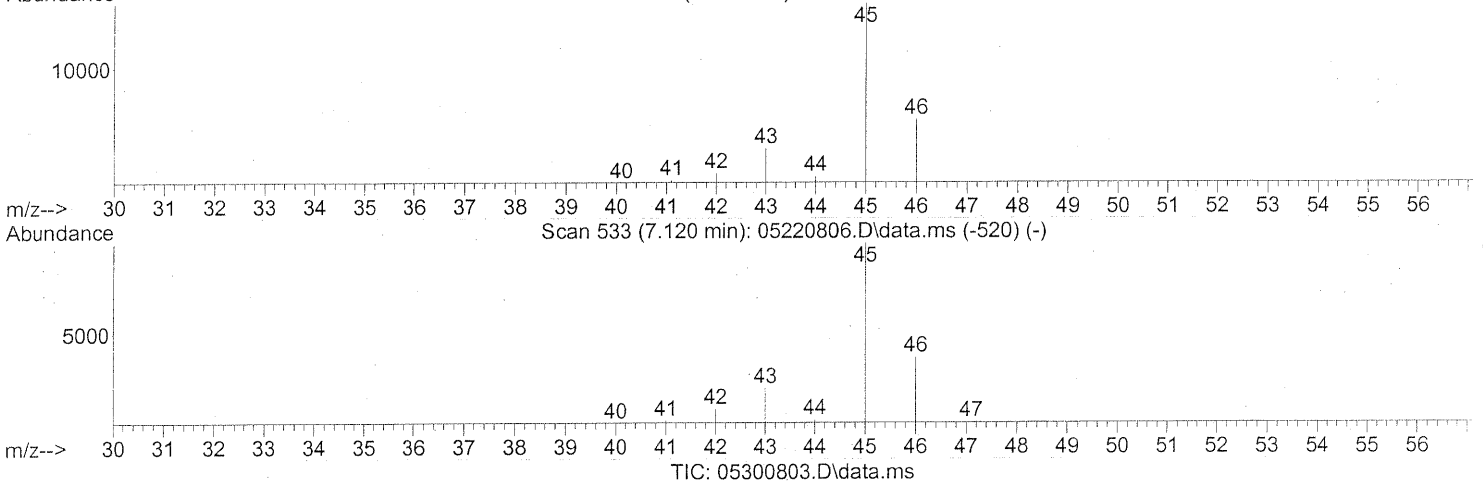
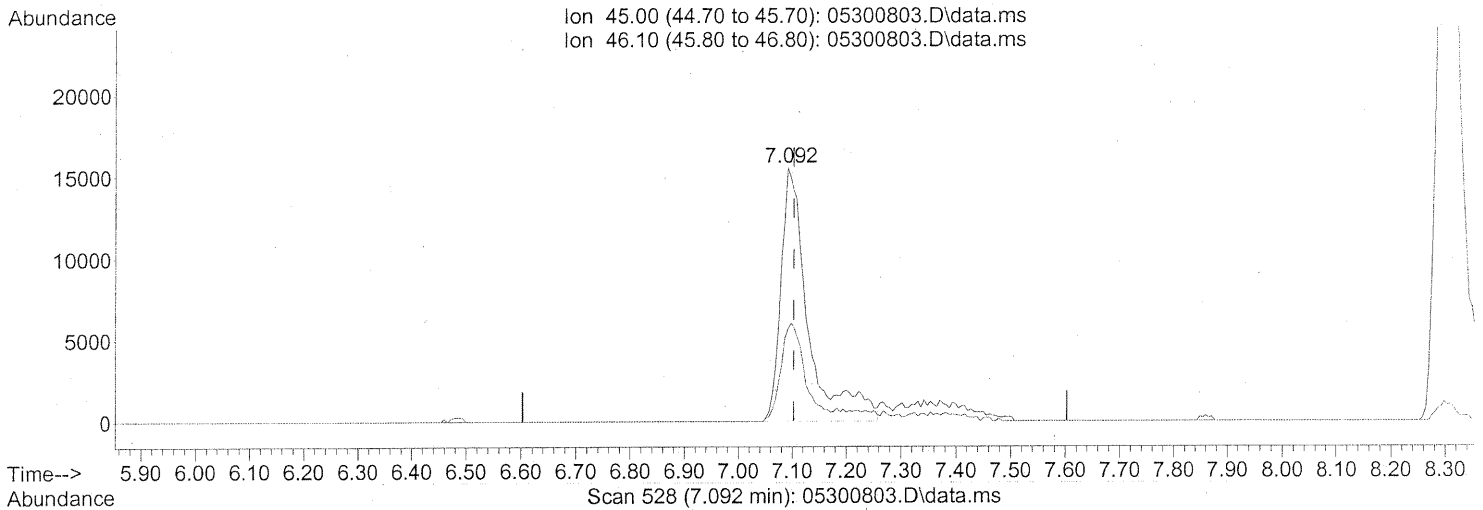
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	184478	4.640	ng	98
81) 2-Ethyltoluene	24.61	105	423303	4.791	ng	96
82) 1,2,4-Trimethylbenzene	24.88	105	370615	4.957	ng	100
83) n-Decane	24.98	57	192283	4.675	ng	85
84) Benzyl Chloride	25.04	91	265764	5.298	ng	97
85) 1,3-Dichlorobenzene	25.08	146	224848	4.811	ng	99
86) 1,4-Dichlorobenzene	25.16	146	229069	5.055	ng	97
87) sec-Butylbenzene	25.21	105	463430	4.850	ng	98
88) p-Isopropyltoluene	25.40	119	425870	5.414	ng	95
89) 1,2,3-Trimethylbenzene	25.40	105	359958	4.921	ng	98
90) 1,2-Dichlorobenzene	25.57	146	218990	4.940	ng	99
91) d-Limonene	25.58	68	137915	4.631	ng	98
92) 1,2-Dibromo-3-Chloropr...	26.11	157	69893	5.080	ng	92
93) n-Undecane	26.50	57	206679	4.801	ng	84
94) 1,2,4-Trichlorobenzene	27.63	180	165998	5.113	ng	95
95) Naphthalene	27.77	128	477096	4.838	ng	98
96) n-Dodecane	27.74	57	202072	4.720	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	110079	5.093	ng	99

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

*GP 5/30/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300803.D  
Acq On : 30 May 2008 8:12  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)

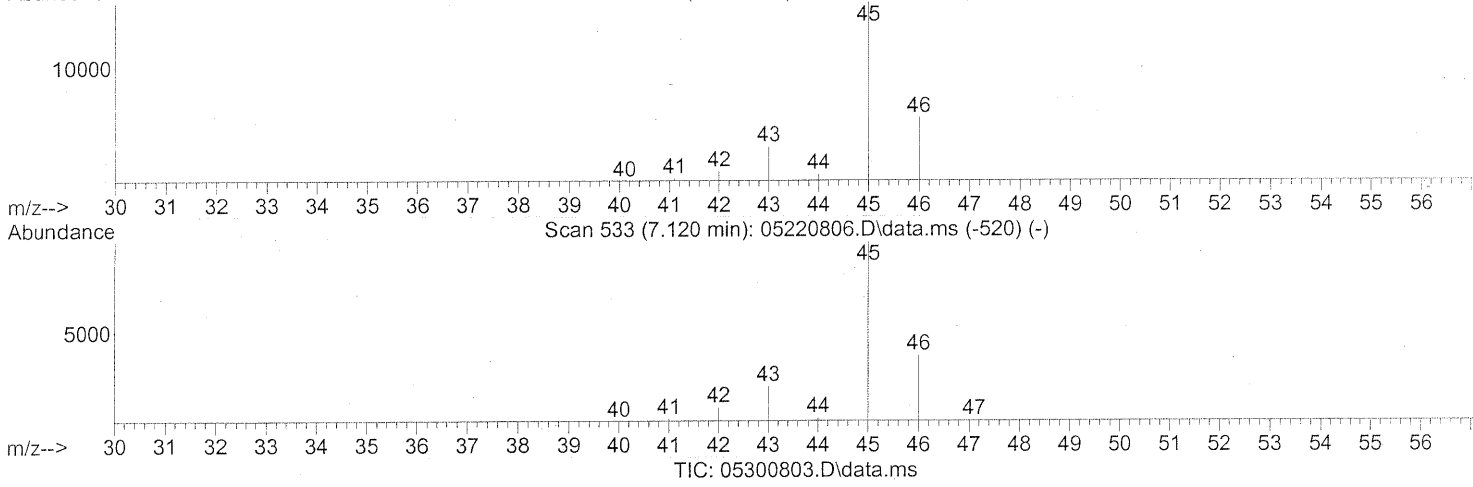
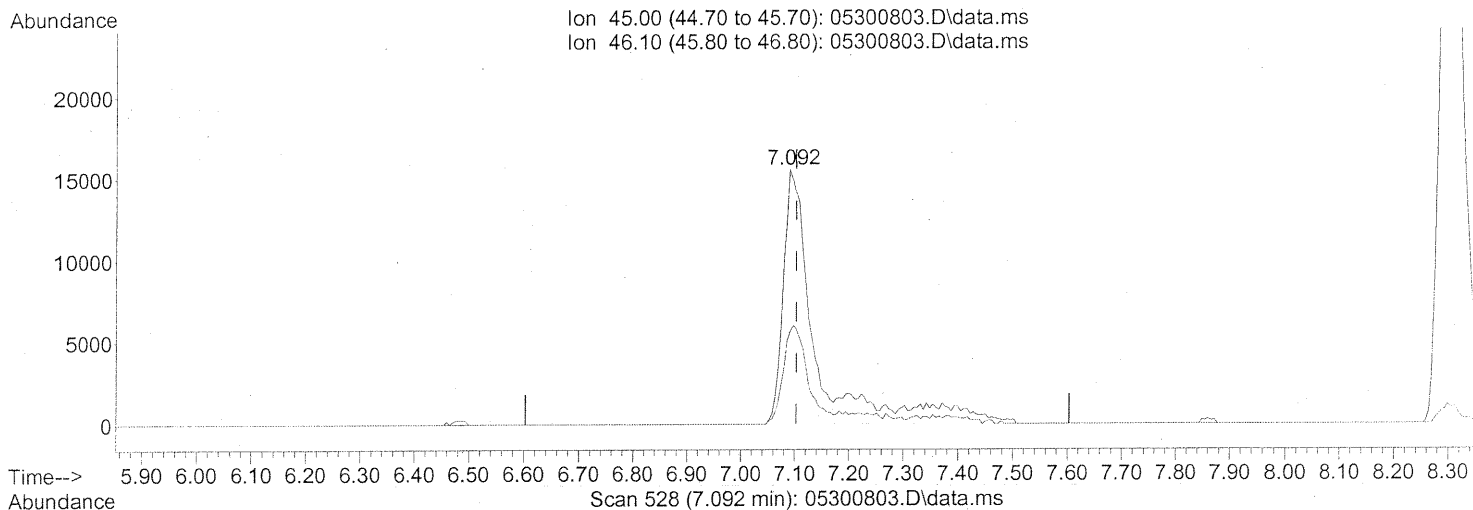
7.092min (-0.011) 3.38ng

response 54960

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	34.38
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300803.D  
Acq On : 30 May 2008 8:12  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



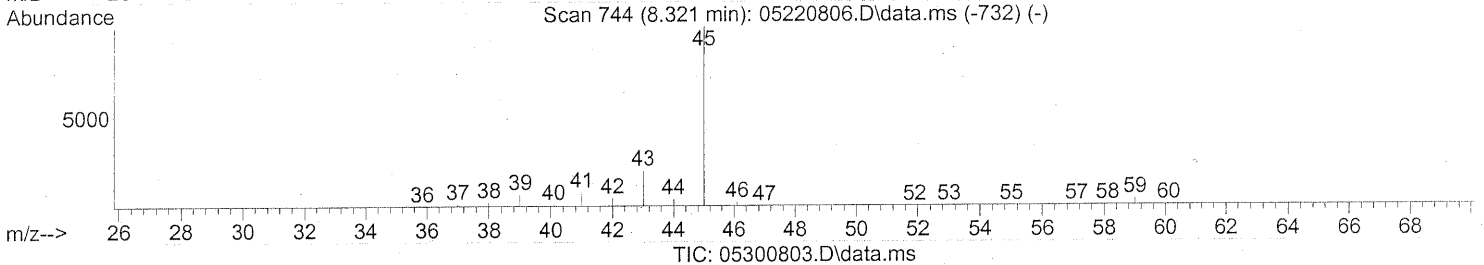
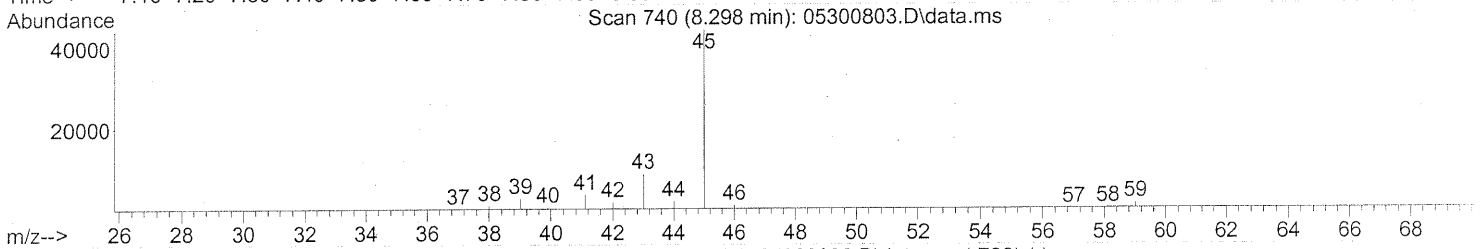
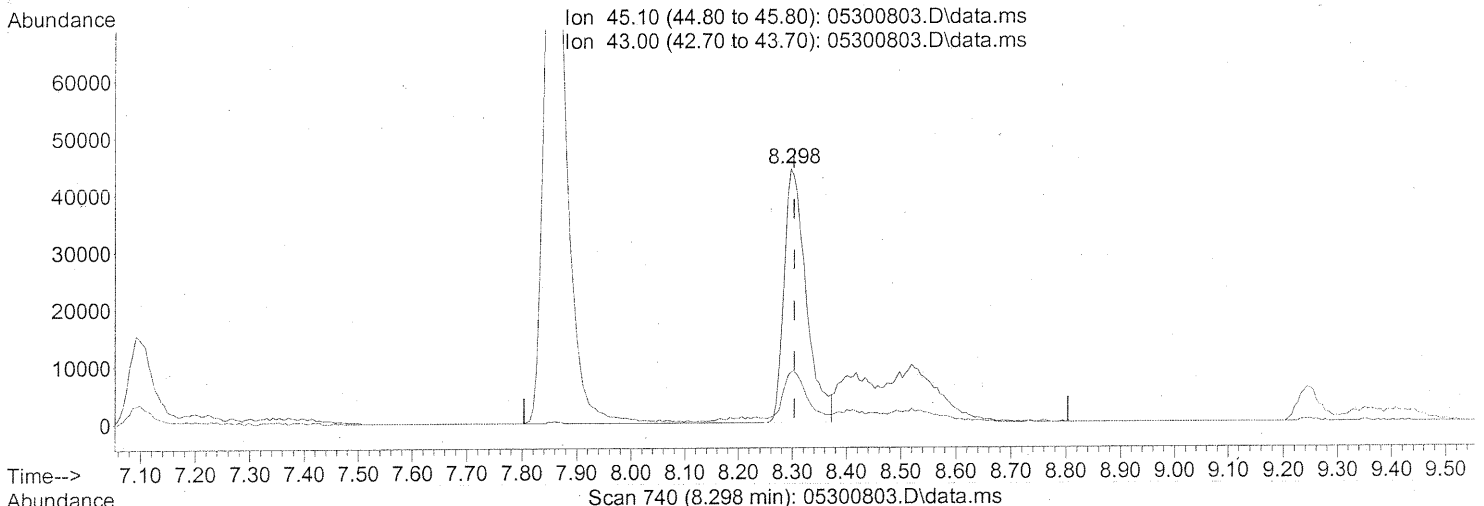
(10) Ethanol (T)  
7.092min (-0.011) 4.07ng m  
response 66347

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	28.48
0.00	0.00	0.00
0.00	0.00	0.00

*add tailing*  
*5/30/08*  
*7/06/02/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

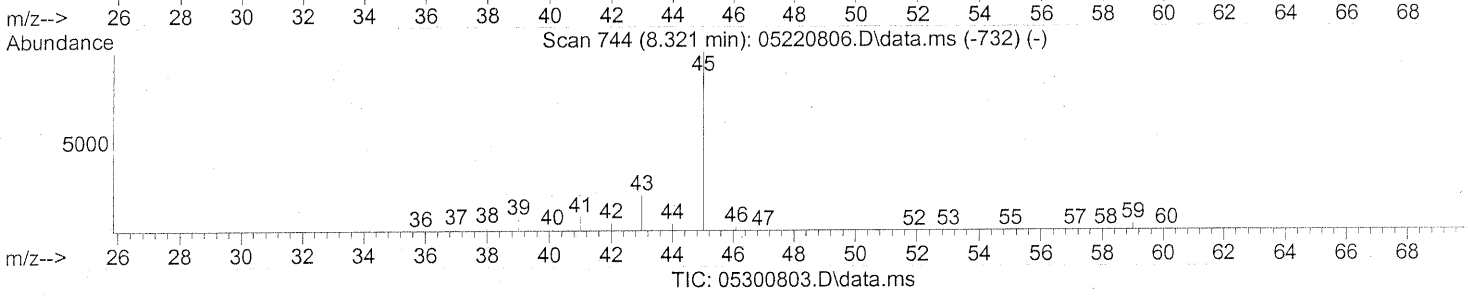
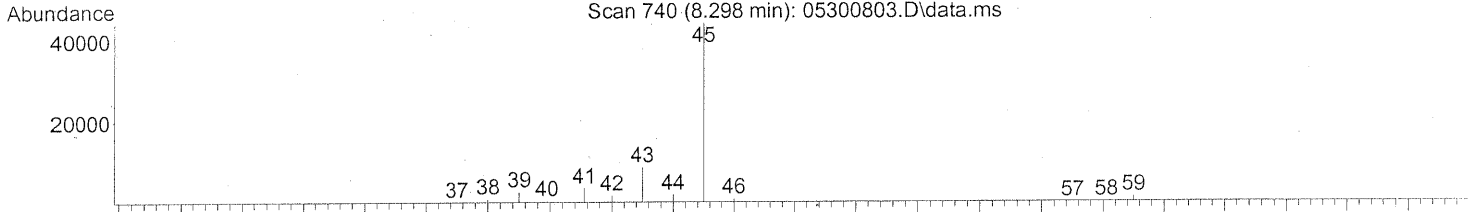
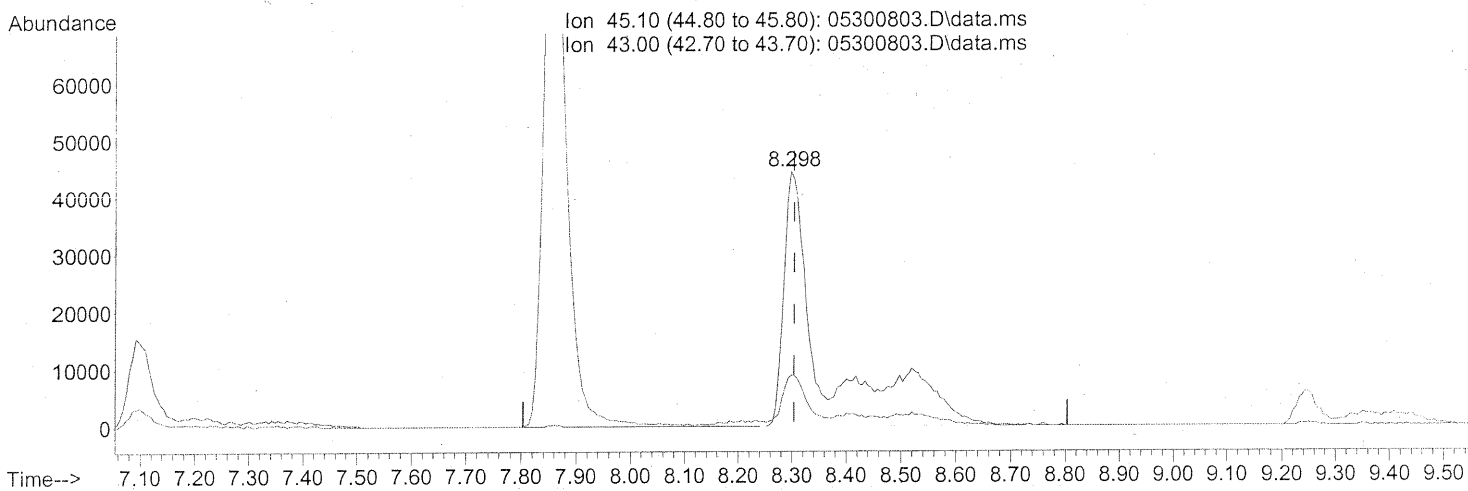


(15) Isopropanol (T)  
 8.298min (-0.006) 2.38ng  
 response 126533

Ion	Exp%	Act%
45.10	100	100
43.00	16.90	21.72
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300803.D  
Acq On : 30 May 2008 8:12  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(15) Isopropanol (T)  
8.298min (-0.006) 4.21ng m  
response 223921

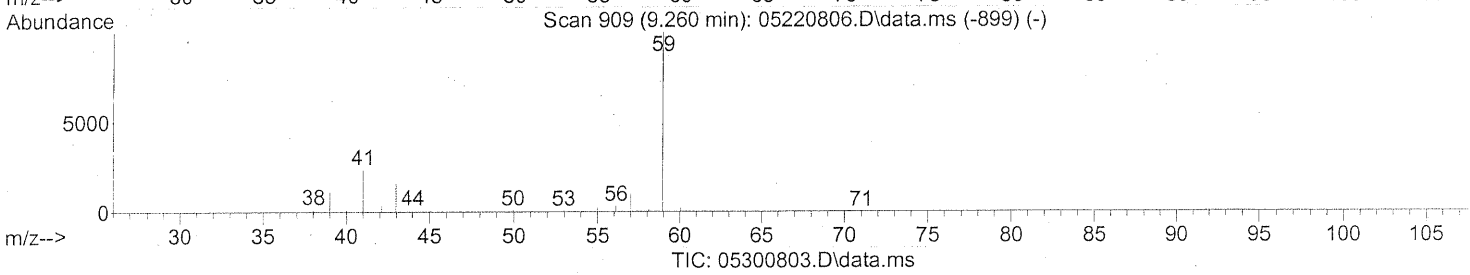
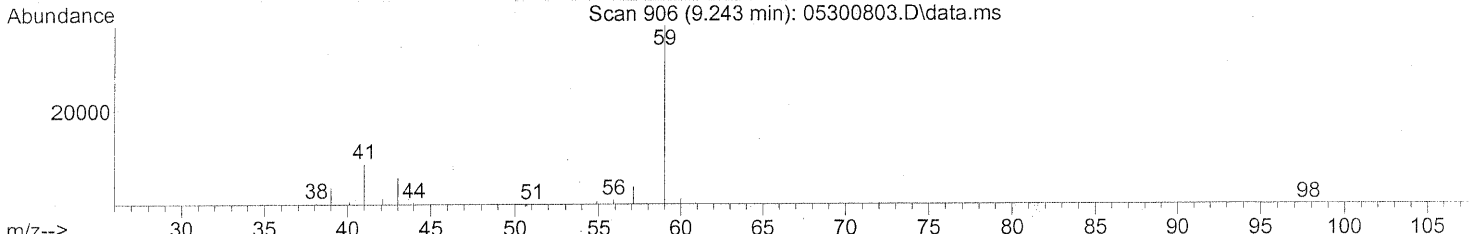
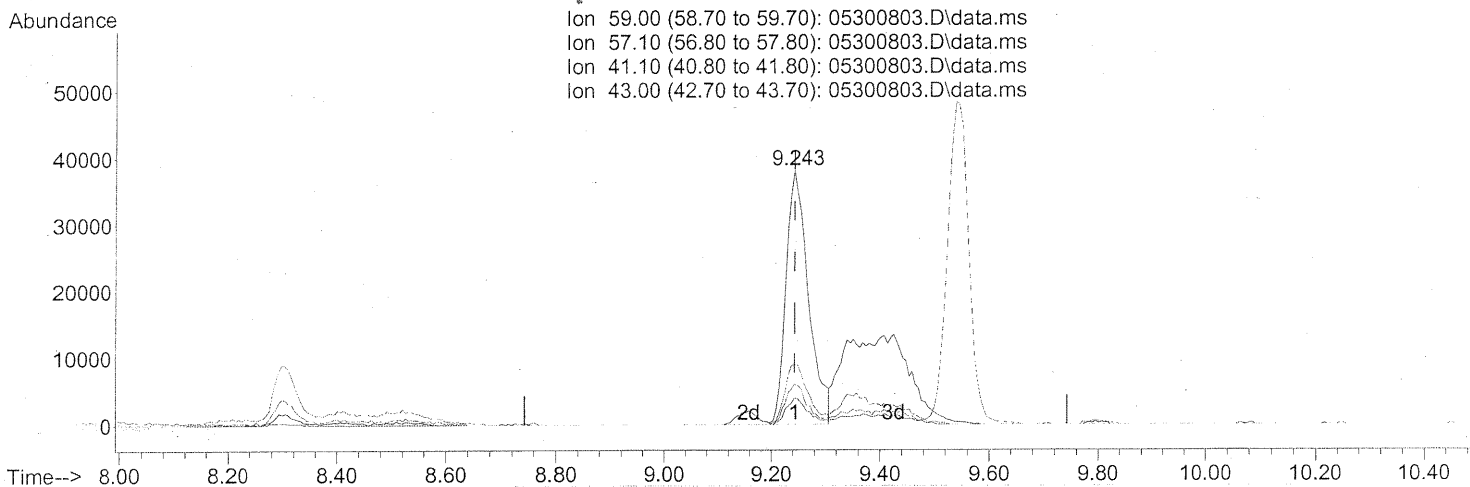
Ion	Exp%	Act%
45.10	100	100
43.00	16.90	12.27
0.00	0.00	0.00
0.00	0.00	0.00

*add tailing  
05/30/08*

*R 06/02/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

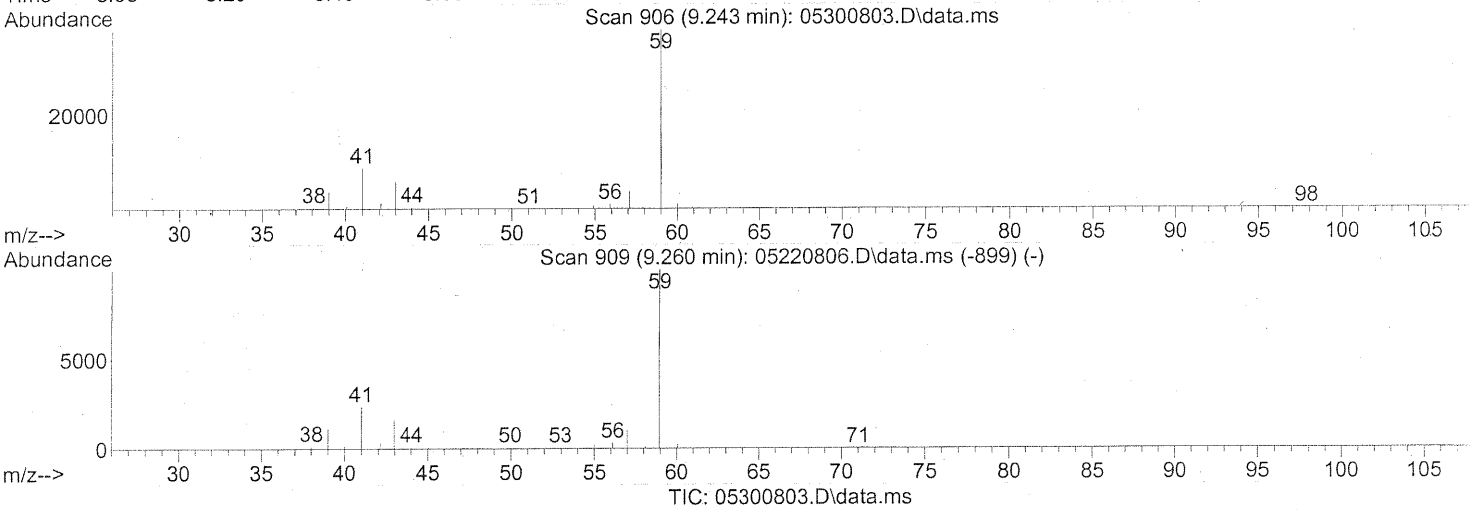
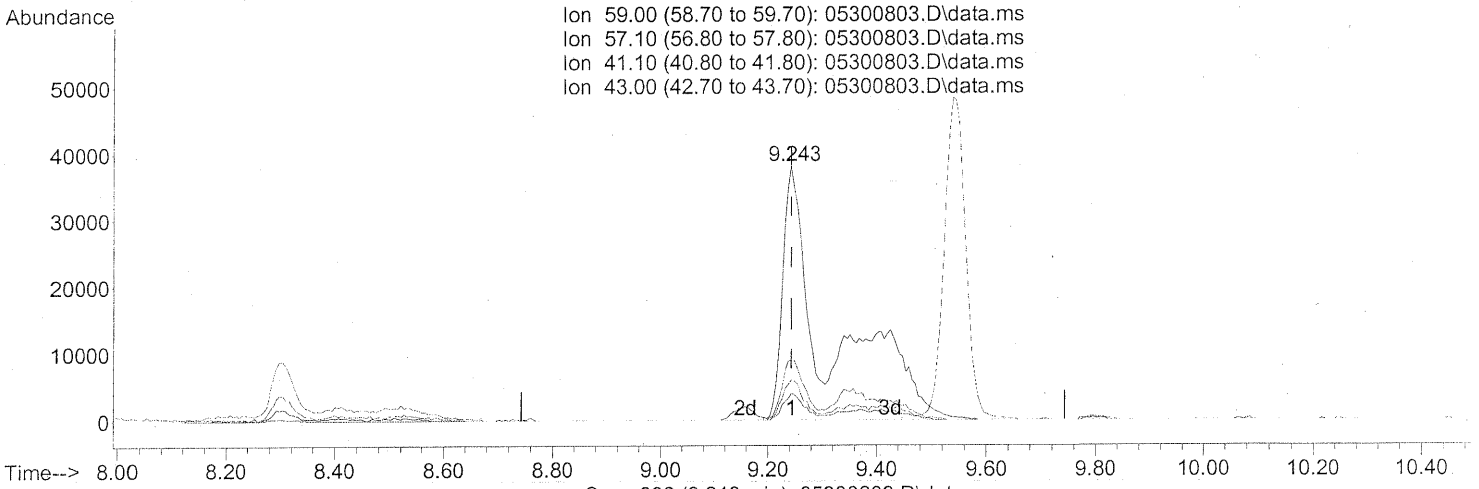


(18) tert-Butanol (T)  
 9.243min (-0.000) 2.40ng  
 response 108686

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	10.66
41.10	20.10	24.82
43.00	12.30	15.81

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 30 13:18:04 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



(18) tert-Butanol (T)  
 9.243min (-0.000) 4.89ng m  
 response 221091

Ion	Exp%	Act%
59.00	100	100
57.10	10.30	5.24
41.10	20.10	12.20
43.00	12.30	7.77

*split peak / tailing*  
*CP 5/30/08*  
*P 06/04/08*



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 12:56:39 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	79	-0.02
2 S	1,2-Dichloroethane-d4 (SS1)	1.732	1.608	7.2	74	-0.03
3 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	78	-0.02
4 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	76	0.00
5 S	Toluene-d8 (SS2)	2.245	2.269	-1.1	76	-0.02
6 S	Bromofluorobenzene (SS3)	0.913	0.930	-1.9	76	0.00
7	tert-Butylbenzene	2.936	2.824	3.8	75	-0.02
8	n-Butylbenzene	3.247	2.980	8.2	69	-0.01

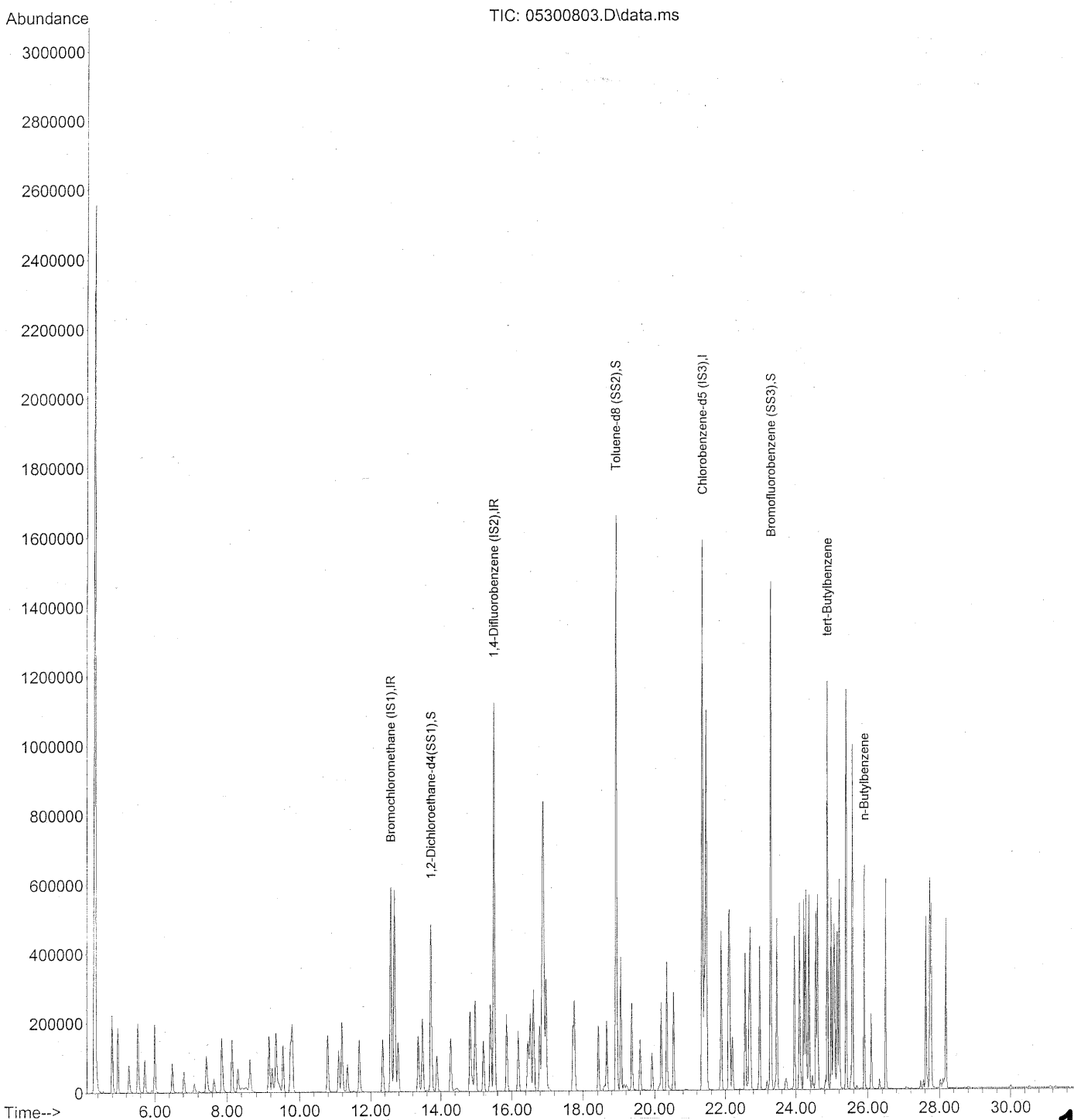
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

*2006/04/08*

Data Path : J:\MS13\DATA\2008\_05\30\  
Data File : 05300803.D  
Acq On : 30 May 2008 8:12 am  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 12:56:39 2008  
Quant Method : J:\MS13\METHODS\S13052208.M  
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
QLast Update : Sun May 25 20:32:30 2008  
Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 12:56:39 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	309690	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1316751	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	608553	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	498031	23.209	ng	-0.03
Spiked Amount	25.000		Recovery	=	92.84%	✓
5) Toluene-d8 (SS2)	18.92	98	1380625	25.261	ng	-0.02
Spiked Amount	25.000		Recovery	=	101.04%	✓
6) Bromofluorobenzene (SS3)	23.29	174	566015	25.468	ng	0.00
Spiked Amount	25.000		Recovery	=	101.88%	✓
Target Compounds						Qvalue
7) tert-Butylbenzene	24.88	119	357469	5.002	ng	98
8) n-Butylbenzene	25.91	91	388079	4.911	ng	97

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

*POG/04/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	89	0.00
2 T	Propene	1.974	1.708	13.5	90	0.00
3 T	Dichlorodifluoromethane	3.639	3.290	9.6	86	0.00
4 T	Chloromethane	2.357	2.426	-2.9	107	0.00
5 T	Freon 114	1.790	1.771	1.1	97	0.00
6 T	Vinyl Chloride	2.358	2.320	1.6	96	0.00
7 T	1,3-Butadiene	1.754	1.861	-6.1	100	0.00
8 T	Bromomethane	1.313	1.454	-10.7	112	0.00
9 T	Chloroethane	1.120	1.176	-5.0	101	0.00
10 T	Ethanol	1.314	1.329	-1.1	104	-0.01
11 T	Acetonitrile	3.801	3.425	9.9	92	-0.01
12 T	Acrolein	0.939	0.965	-2.8	102	0.00
13 T	Acetone	1.346	1.334	0.9	101	-0.01
14 T	Trichlorofluoromethane	3.122	3.054	2.2	94	0.00
15 T	Isopropanol	4.292	4.417	-2.9	111	0.00
16 T	Acrylonitrile	2.049	2.114	-3.2	98	0.00
17 T	1,1-Dichloroethene	1.373	1.408	-2.5	98	0.00
18 T	tert-Butanol	3.651	3.984	-9.1	102	0.00
19 T	Methylene Chloride	1.504	1.465	2.6	97	0.00
20 T	Allyl Chloride	2.007	2.313	-15.2	106	0.00
21 T	Trichlorotrifluoroethane	1.420	1.463	-3.0	101	0.00
22 T	Carbon Disulfide	5.707	5.732	-0.4	99	0.00
23 T	trans-1,2-Dichloroethene	2.225	2.253	-1.3	97	0.00
24 T	1,1-Dichloroethane	2.610	2.601	0.3	95	0.00
25 T	Methyl tert-Butyl Ether	4.352	4.390	-0.9	96	0.00
26 T	Vinyl Acetate	0.249	0.286	-14.9	123	0.00
27 T	2-Butanone	0.982	0.985	-0.3	98	0.00
28 T	cis-1,2-Dichloroethene	2.126	2.062	3.0	94	0.00
29 T	Diisopropyl Ether	1.204	1.166	3.2	94	0.00
30 T	Ethyl Acetate	0.530	0.526	0.8	95	0.00
31 T	n-Hexane	2.676	2.546	4.9	91	0.00
32 T	Chloroform	2.280	2.197	3.6	94	0.00
33 S	1,2-Dichloroethane-d4 (SS1)	1.732	1.606	7.3	84	0.00
34 T	Tetrahydrofuran	0.939	0.936	0.3	96	0.00
35 T	Ethyl tert-Butyl Ether	1.686	1.658	1.7	94	-0.01
36 T	1,2-Dichloroethane	2.202	2.087	5.2	91	0.00
37 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	88	0.00
38 T	1,1,1-Trichloroethane	0.569	0.560	1.6	92	0.00

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*Page 06/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	0.214	0.233	-8.9	100	0.00
40 T	1-Butanol	0.344	0.377	-9.6	102	0.00
41 T	Benzene	1.309	1.294	1.1	94	0.00
42 T	Carbon Tetrachloride	0.504	0.505	-0.2	92	0.00
43 T	Cyclohexane	0.509	0.518	-1.8	97	0.00
44 T	tert-Amyl Methyl Ether	0.939	0.947	-0.9	94	0.00
45 T	1,2-Dichloropropane	0.350	0.349	0.3	95	0.00
46 T	Bromodichloromethane	0.442	0.451	-2.0	94	0.00
47 T	Trichloroethene	0.402	0.381	5.2	95	-0.01
48 T	1,4-Dioxane	0.247	0.257	-4.0	98	0.00
49 T	Isooctane	1.501	1.485	1.1	94	0.00
50 T	Methyl Methacrylate	0.131	0.141	-7.6	99	0.00
51 T	n-Heptane	0.348	0.351	-0.9	93	0.00
52 T	cis-1,3-Dichloropropene	0.520	0.549	-5.6	97	0.00
53 T	4-Methyl-2-pentanone	0.348	0.351	-0.9	93	0.00
54 T	trans-1,3-Dichloropropene	0.449	0.483	-7.6	97	0.00
55 T	1,1,2-Trichloroethane	0.323	0.328	-1.5	94	0.00
56 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	85	0.00
57 S	Toluene-d8 (SS2)	2.245	2.251	-0.3	85	0.00
58 T	Toluene	3.052	3.086	-1.1	93	0.00
59 T	2-Hexanone	2.103	2.121	-0.9	87	0.00
60 T	Dibromochloromethane	0.824	0.870	-5.6	94	0.00
61 T	1,2-Dibromoethane	0.799	0.839	-5.0	94	0.00
62 T	Butyl Acetate	2.135	2.194	-2.8	90	0.00
63 T	n-Octane	0.675	0.687	-1.8	93	0.00
64 T	Tetrachloroethene	0.903	0.923	-2.2	96	0.00
65 T	Chlorobenzene	2.046	2.071	-1.2	92	0.00
66 T	Ethylbenzene	3.500	3.571	-2.0	91	0.00
67 T	m- & p-Xylene	2.341	2.354	-0.6	91	0.00
68 T	Bromoform	0.613	0.659	-7.5	94	0.00
69 T	Styrene	2.092	2.162	-3.3	92	0.00
70 T	o-Xylene	2.527	2.530	-0.1	90	0.00
71 T	n-Nonane	1.794	1.775	1.1	87	0.00
72 T	1,1,2,2-Tetrachloroethane	1.053	1.129	-7.2	91	0.00
73 S	Bromofluorobenzene (SS3)	0.913	0.968	-6.0	90	0.00
74 T	Cumene	3.365	3.468	-3.1	93	0.00
75 T	alpha-Pinene	1.740	1.728	0.7	90	0.00
76 T	n-Propylbenzene	4.282	4.453	-4.0	92	0.00

*7/6/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T 3-Ethyltoluene	3.582	3.677	-2.7	92	0.00
78 T 4-Ethyltoluene	3.339	3.484	-4.3	89	0.00
79 T 1,3,5-Trimethylbenzene	3.017	3.024	-0.2	89	0.00
80 T alpha-Methylstyrene	1.633	1.689	-3.4	91	0.00
81 T 2-Ethyltoluene	3.630	3.765	-3.7	90	0.00
82 T 1,2,4-Trimethylbenzene	3.071	3.079	-0.3	88	0.00
83 T n-Decane	1.690	1.722	-1.9	88	0.00
84 T Benzyl Chloride	2.061	2.328	-13.0	96	0.00
85 T 1,3-Dichlorobenzene	1.920	1.952	-1.7	90	0.00
86 T 1,4-Dichlorobenzene	1.861	1.914	-2.8	90	0.00
87 T sec-Butylbenzene	3.925	4.055	-3.3	89	0.00
88 T p-Isopropyltoluene	3.231	3.368	-4.2	90	0.00
89 T 1,2,3-Trimethylbenzene	3.005	3.025	-0.7	87	0.00
90 T 1,2-Dichlorobenzene	1.821	1.854	-1.8	88	0.00
91 T d-Limonene	1.224	1.200	2.0	86	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.565	0.647	-14.5	96	0.00
93 T n-Undecane	1.768	1.808	-2.3	88	0.00
94 T 1,2,4-Trichlorobenzene	1.334	1.394	-4.5	95	0.00
95 T Naphthalene	4.051	4.369	-7.8	93	0.00
96 T n-Dodecane	1.759	1.831	-4.1	92	0.00
97 T Hexachloro-1,3-butadiene	0.888	0.919	-3.5	93	0.00

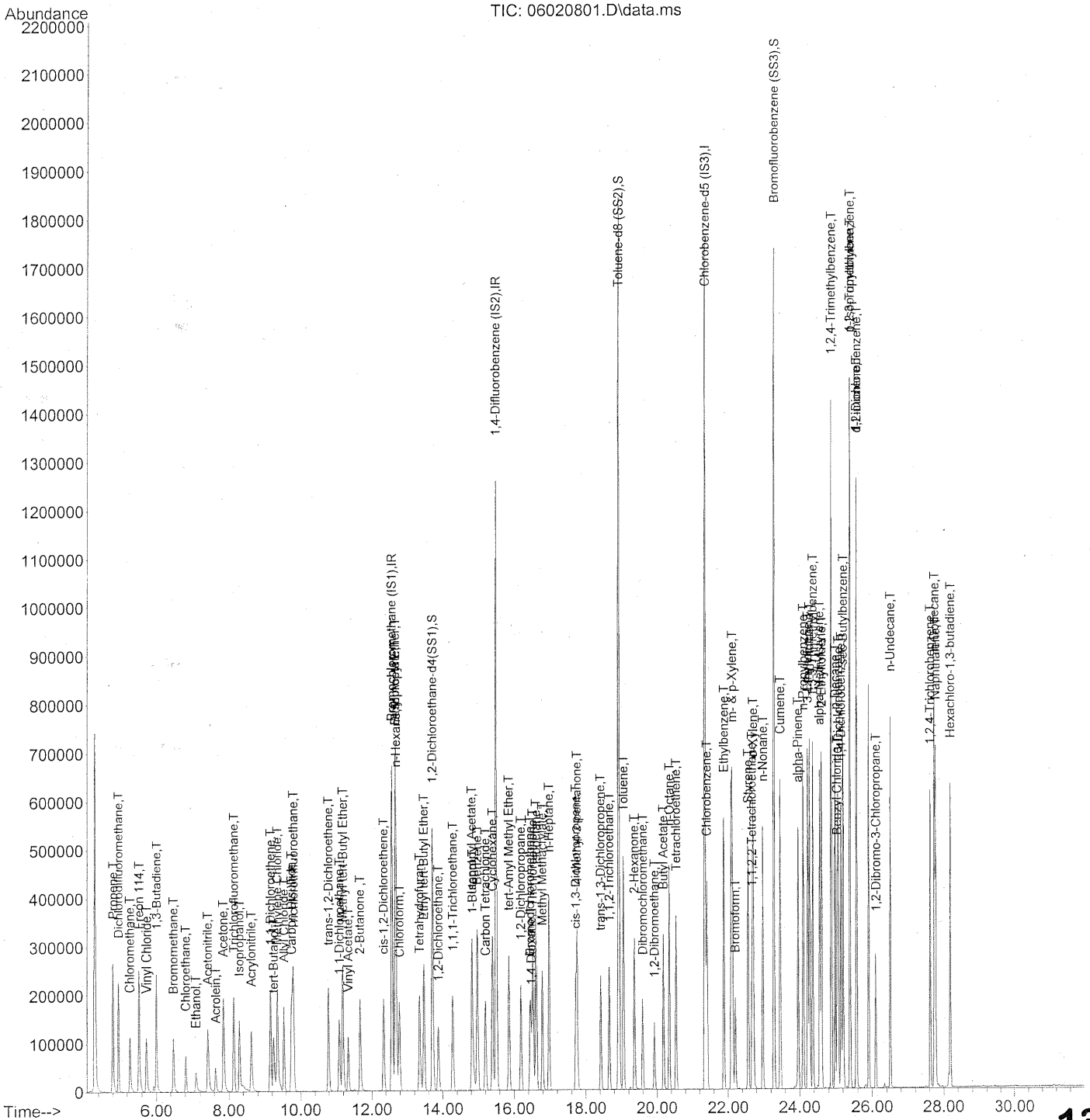
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

*F 06/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	349762	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1484429	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	687424	25.000	ng	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4 (...)	13.72	65	561590	23.173	ng	0.00
Spiked Amount	25.000		Recovery	=	92.68%	✓
57) Toluene-d8 (SS2)	18.92	98	1547191	25.061	ng	0.00
Spiked Amount	25.000		Recovery	=	100.24%	✓
73) Bromofluorobenzene (SS3)	23.29	174	665401	26.504	ng	0.00
Spiked Amount	25.000		Recovery	=	106.00%	✓

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	129006	4.670	ng	91
3) Dichlorodifluoromethane	4.96	85	239341	4.701	ng	100
4) Chloromethane	5.28	50	173115	5.251	ng	97
5) Freon 114	5.53	135	132538	5.292	ng	100
6) Vinyl Chloride	5.73	62	167123	5.066	ng	97
7) 1,3-Butadiene	6.00	54	141915	5.783	ng	# 80
8) Bromomethane	6.48	94	106763	5.811	ng	100
9) Chloroethane	6.82	64	86386	5.513	ng	96
10) Ethanol	7.09	45	84589m	4.600	ng	
11) Acetonitrile	7.42	41	234828	4.416	ng	96
12) Acrolein	7.64	56	64801	4.933	ng	99
13) Acetone	7.85	58	103555	5.500	ng	# 71
14) Trichlorofluoromethane	8.14	101	222174	5.086	ng	100
15) Isopropanol	8.30	45	318247	5.300	ng	99
16) Acrylonitrile	8.63	53	149341	5.209	ng	100
17) 1,1-Dichloroethene	9.16	96	111270	5.791	ng	# 77
18) tert-Butanol	9.24	59	284231	5.565	ng	92
19) Methylene Chloride	9.35	84	114755	5.454	ng	# 77
20) Allyl Chloride	9.54	41	169898	6.051	ng	100
21) Trichlorotrifluoroethane	9.81	151	116654	5.872	ng	91
22) Carbon Disulfide	9.76	76	400967	5.022	ng	97
23) trans-1,2-Dichloroethene	10.79	61	173351	5.569	ng	81
24) 1,1-Dichloroethane	11.09	63	201991	5.532	ng	94
25) Methyl tert-Butyl Ether	11.19	73	340843	5.598	ng	85
26) Vinyl Acetate	11.34	86	19602	5.633	ng	# 76
27) 2-Butanone	11.67	72	77163	5.615	ng	# 86
28) cis-1,2-Dichloroethene	12.34	61	160123	5.383	ng	79
29) Diisopropyl Ether	12.67	87	83999	4.988	ng	# 88
30) Ethyl Acetate	12.67	61	46717	6.298	ng	74
31) n-Hexane	12.70	57	199460	5.329	ng	88

*Handwritten signature*  
 6/2/08



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	198290	6.217	ng	99
34) Tetrahydrofuran	13.35	72	72707	5.534	ng #	88
35) Ethyl tert-Butyl Ether	13.47	87	121770	5.164	ng #	74
36) 1,2-Dichloroethane	13.89	62	160612	5.212	ng	97
38) 1,1,1-Trichloroethane	14.29	97	182875	5.409	ng	95
39) Isopropyl Acetate	14.83	61	69911	5.514	ng #	56
40) 1-Butanol	14.84	56	101978	4.998	ng #	68
41) Benzene	14.97	78	422467	5.435	ng	100
42) Carbon Tetrachloride	15.21	117	160465	5.361	ng	99
43) Cyclohexane	15.41	84	170776	5.648	ng #	72
44) tert-Amyl Methyl Ether	15.86	73	292329	5.243	ng	94
45) 1,2-Dichloropropane	16.19	63	113021	5.435	ng	100
46) Bromodichloromethane	16.45	83	154025	5.863	ng	100
47) Trichloroethene	16.53	130	128966	5.409	ng	99
48) 1,4-Dioxane	16.49	88	87781	5.988	ng #	78
49) Isooctane	16.62	57	458451	5.145	ng	83
50) Methyl Methacrylate	16.79	100	44240	5.696	ng	92
51) n-Heptane	16.98	71	115533	5.594	ng #	78
52) cis-1,3-Dichloropropene	17.72	75	169620	5.490	ng	98
53) 4-Methyl-2-pentanone	17.76	58	109428	5.303	ng	77
54) trans-1,3-Dichloropropene	18.42	75	166216	6.236	ng	99
55) 1,1,2-Trichloroethane	18.67	97	106272	5.533	ng	98
58) Toluene	19.06	91	466738	5.562	ng	97
59) 2-Hexanone	19.36	43	297450	5.144	ng	84
60) Dibromochloromethane	19.60	129	132766	5.857	ng	97
61) 1,2-Dibromoethane	19.93	107	125686	5.722	ng	100
62) Butyl Acetate	20.18	43	316744	5.397	ng	87
63) n-Octane	20.35	57	98286	5.296	ng	89
64) Tetrachloroethene	20.54	166	138373	5.572	ng	100
65) Chlorobenzene	21.40	112	313151	5.566	ng	100
66) Ethylbenzene	21.89	91	530190	5.510	ng	95
67) m- & p-Xylene	22.12	91	835160	12.975	ng	92
68) Bromoform	22.21	173	118729	7.039	ng	99
69) Styrene	22.57	104	321013	5.579	ng	97
70) o-Xylene	22.71	91	424358	6.108	ng	94
71) n-Nonane	22.98	43	251409	5.096	ng	85
72) 1,1,2,2-Tetrachloroethane	22.68	83	190871	6.591	ng	98
74) Cumene	23.46	105	514870	5.565	ng	100
75) alpha-Pinene	23.96	93	251858	5.264	ng	94
76) n-Propylbenzene	24.10	91	642827	5.460	ng	98
77) 3-Ethyltoluene	24.23	105	515607	5.236	ng	98
78) 4-Ethyltoluene	24.28	105	531631	5.790	ng	98
79) 1,3,5-Trimethylbenzene	24.37	105	449085	5.414	ng	99

*F 06/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:27 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

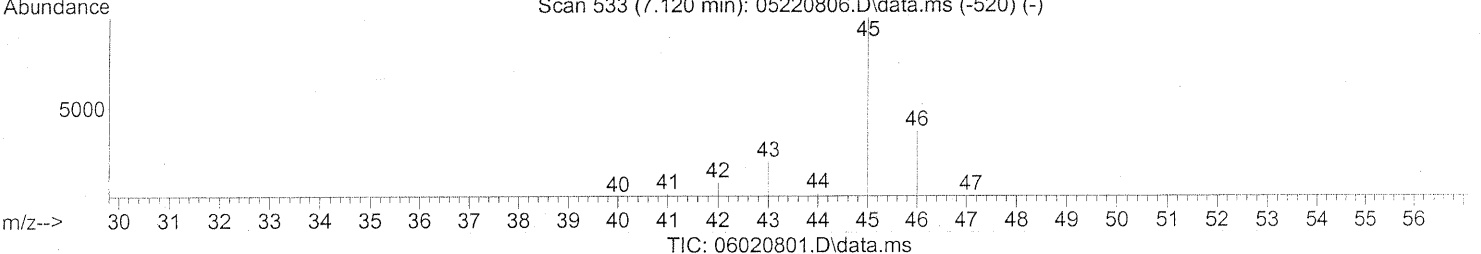
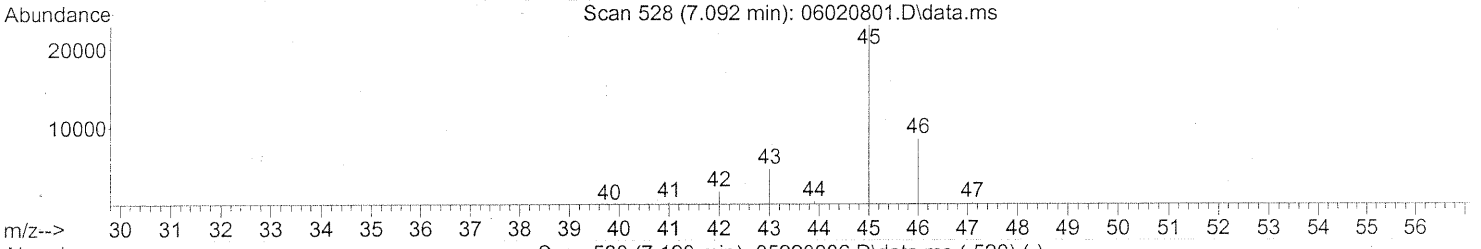
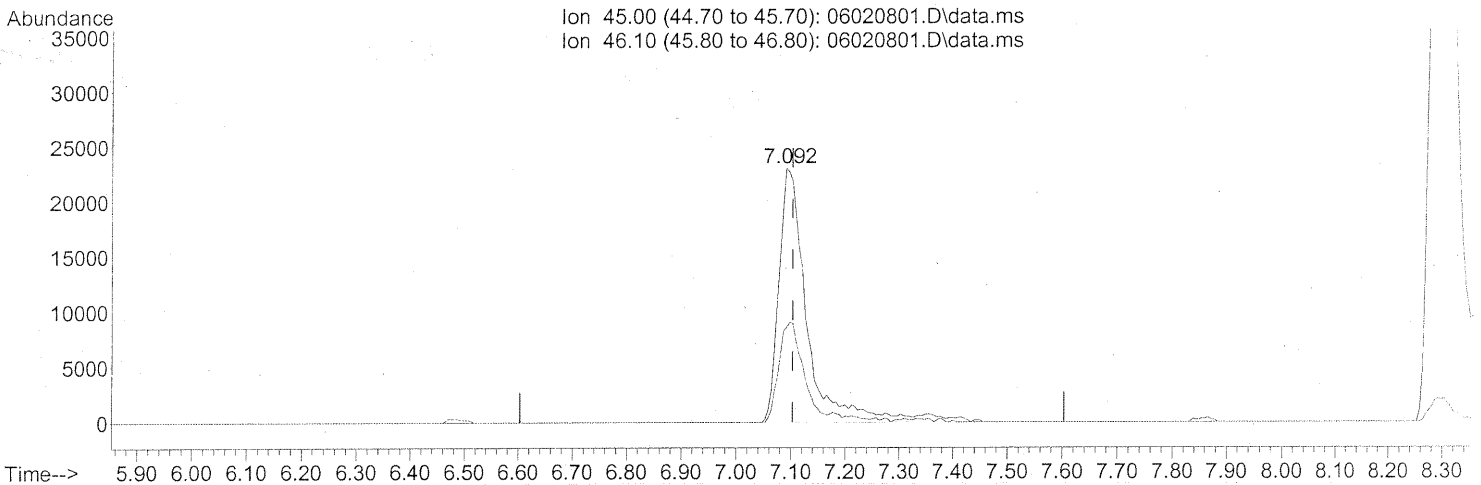
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
80) alpha-Methylstyrene	24.56	118	236841	5.274	ng	95
81) 2-Ethyltoluene	24.61	105	512453	5.134	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	465652	5.514	ng	99
83) n-Decane	24.98	57	246280	5.301	ng	85
84) Benzyl Chloride	25.04	91	342403	6.043	ng	98
85) 1,3-Dichlorobenzene	25.08	146	284401	5.387	ng	100
86) 1,4-Dichlorobenzene	25.16	146	289419	5.655	ng	100
87) sec-Butylbenzene	25.21	105	596480	5.526	ng	98
88) p-Isopropyltoluene	25.40	119	546415	6.150	ng	96
89) 1,2,3-Trimethylbenzene	25.40	105	457540	5.537	ng	99
90) 1,2-Dichlorobenzene	25.58	146	275296	5.498	ng	100
91) d-Limonene	25.58	68	174856	5.197	ng	100
92) 1,2-Dibromo-3-Chloropr...	26.11	157	92470	5.950	ng	95
93) n-Undecane	26.50	57	260995	5.367	ng	82
94) 1,2,4-Trichlorobenzene	27.63	180	214674	5.853	ng	95
95) Naphthalene	27.77	128	630653	5.662	ng	98
96) n-Dodecane	27.74	57	266819	5.517	ng	81
97) Hexachloro-1,3-butadiene	28.19	225	140234	5.744	ng	98

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

*BoG/02/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020801.D  
Acq On : 2 Jun 2008 8:49  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:01 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)

7.092min (-0.011) 4.43ng

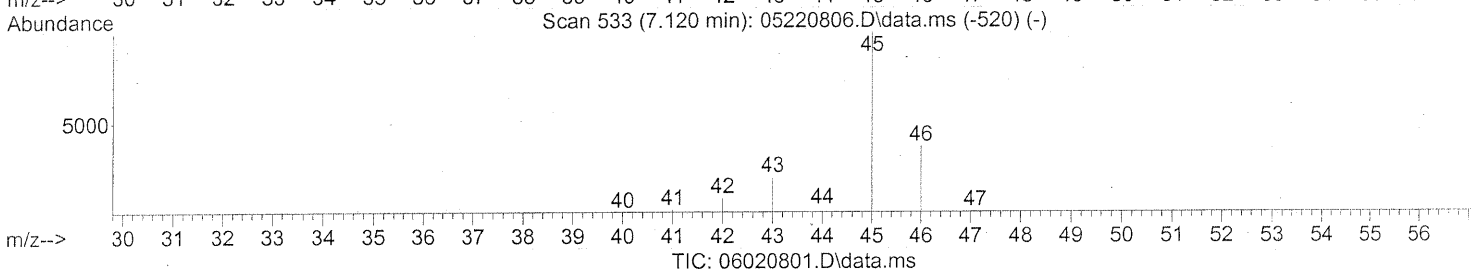
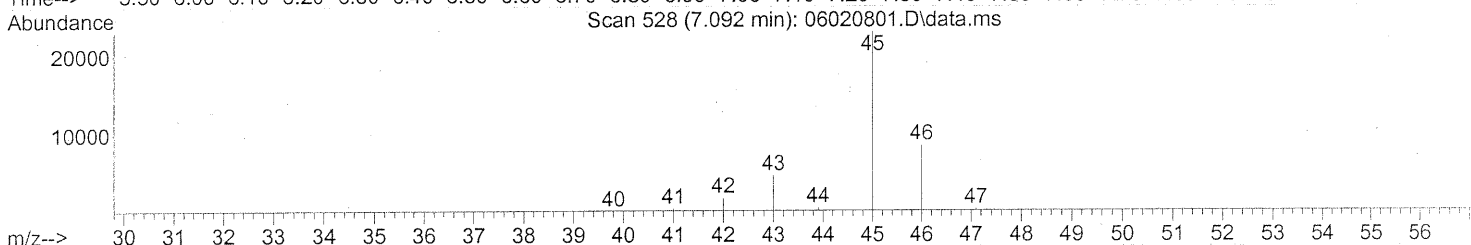
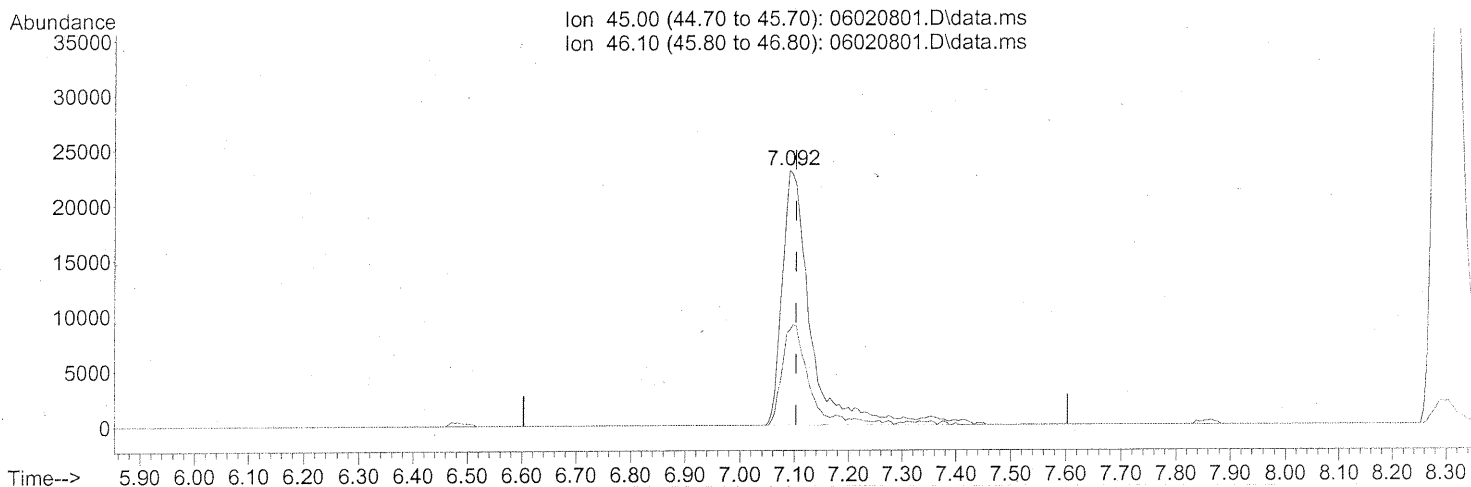
response 81488

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	37.71
0.00	0.00	0.00
0.00	0.00	0.00

TAILING

Data Path : J:\MS13\DATA\2008\_06\02\  
Data File : 06020801.D  
Acq On : 2 Jun 2008 8:49  
Operator : WA  
Sample : 5ng TO-15 CCV Standard  
Misc : S20-05160801/S20-05210804  
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 02 09:21:01 2008  
Quant Method : J:\MS13\METHODS\R13052208.M  
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
QLast Update : Thu May 22 11:37:04 2008  
Response via : Initial Calibration



(10) Ethanol (T)

7.092min (-0.011) 4.60ng m

response 84589

Ion	Exp%	Act%
45.00	100	100
46.10	41.00	36.33
0.00	0.00	0.00
0.00	0.00	0.00

ADDED TAILING  
6/2/08

WA 6/2/08

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 13:04:11 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	89	-0.02
2 S	1,2-Dichloroethane-d4 (SS1)	1.732	1.606	7.3	84	-0.03
3 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	88	-0.02
4 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	85	0.00
5 S	Toluene-d8 (SS2)	2.245	2.251	-0.3	85	-0.02
6 S	Bromofluorobenzene (SS3)	0.913	0.968	-6.0	90	0.00
7	tert-Butylbenzene	2.936	2.994	-2.0	90	-0.02
8	n-Butylbenzene	3.247	3.397	-4.6	88	-0.01

(#) = Out of Range

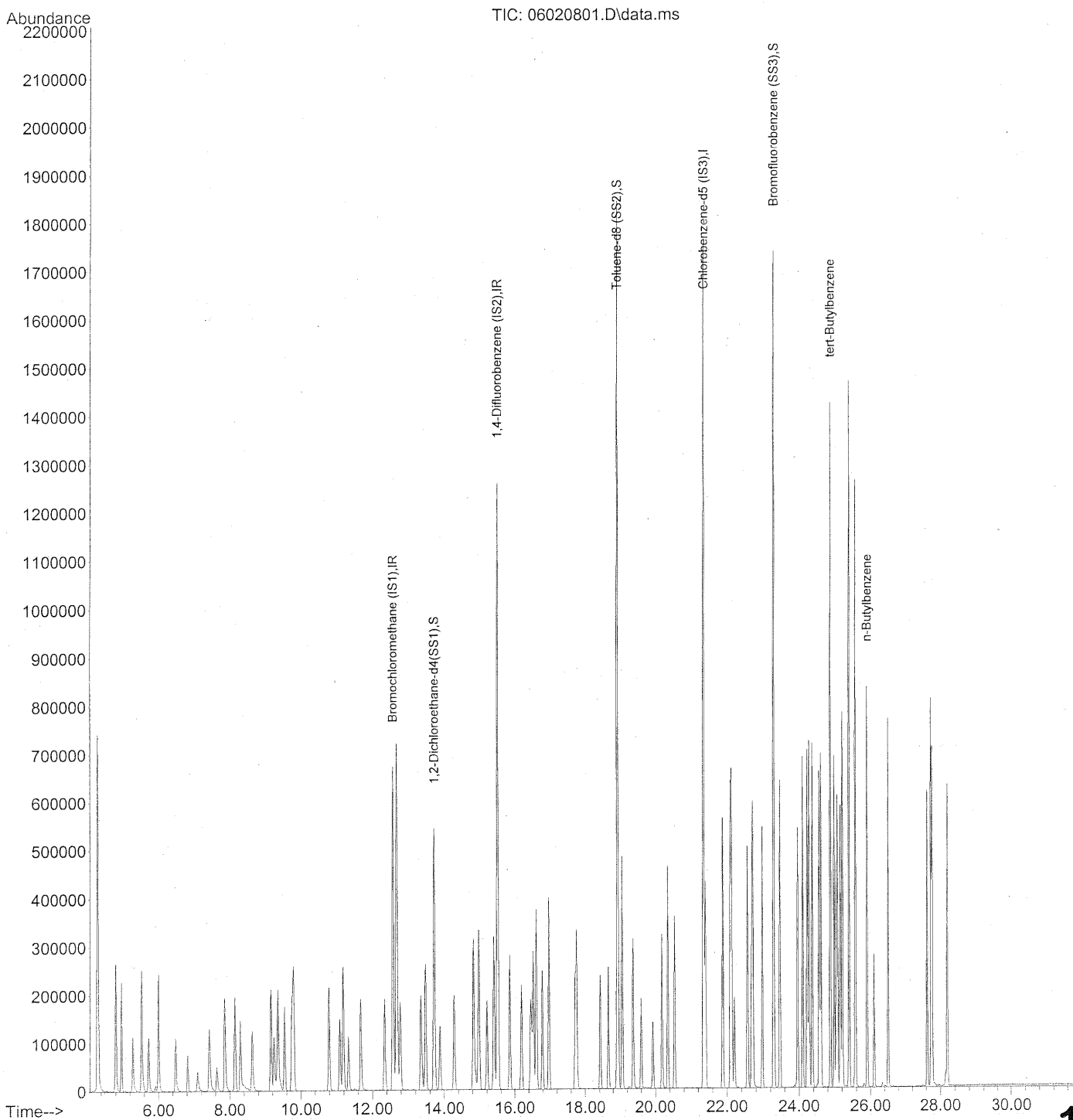
SPCC's out = 0 CCC's out = 0

*BoG/04/08*

**1389**

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 13:04:11 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration



Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 13:04:11 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	12.58	130	349762	25.000	ng	-0.02
3) 1,4-Difluorobenzene (IS2)	15.51	114	1484429	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	21.35	82	687424	25.000	ng	0.00
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...)	13.72	65	561590	23.173	ng	-0.03
Spiked Amount				25.000		Recovery = 92.68% ✓
5) Toluene-d8 (SS2)	18.92	98	1547191	25.061	ng	-0.02
Spiked Amount				25.000		Recovery = 100.24% ✓
6) Bromofluorobenzene (SS3)	23.29	174	665401	26.504	ng	0.00
Spiked Amount				25.000		Recovery = 106.00% ✓
Target Compounds						
7) tert-Butylbenzene	24.88	119	428133	5.304	ng	99
8) n-Butylbenzene	25.91	91	499726	5.598	ng	97

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

*2006/04/08*

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR Bromochloromethane (IS1)	1.000	1.000	0.0	83	0.00
2 T Propene	1.974	1.669	15.5	82	0.00
3 T Dichlorodifluoromethane	3.639	3.298	9.4	81	0.00
4 T Chloromethane	2.357	2.429	-3.1	100	0.00
5 T Freon 114	1.790	1.694	5.4	87	0.00
6 T Vinyl Chloride	2.358	2.258	4.2	87	-0.01
7 T 1,3-Butadiene	1.754	1.777	-1.3	89	-0.01
8 T Bromomethane	1.313	1.341	-2.1	96	0.00
9 T Chloroethane	1.120	1.137	-1.5	91	0.00
10 T Ethanol	1.314	1.219	7.2	89	-0.01
11 T Acetonitrile	3.801	3.342	12.1	84	-0.01
12 T Acrolein	0.939	0.927	1.3	92	0.00
13 T Acetone	1.346	1.272	5.5	90	-0.01
14 T Trichlorofluoromethane	3.122	2.942	5.8	85	0.00
15 T Isopropanol	4.292	4.317	-0.6	102	0.00
16 T Acrylonitrile	2.049	2.055	-0.3	89	0.00
17 T 1,1-Dichloroethene	1.373	1.353	1.5	88	-0.01
18 T tert-Butanol	3.651	3.801	-4.1	91	0.00
19 T Methylene Chloride	1.504	1.403	6.7	87	0.00
20 T Allyl Chloride	2.007	2.241	-11.7	96	0.00
21 T Trichlorotrifluoroethane	1.420	1.382	2.7	89	0.00
22 T Carbon Disulfide	5.707	5.422	5.0	88	0.00
23 T trans-1,2-Dichloroethene	2.225	2.168	2.6	87	0.00
24 T 1,1-Dichloroethane	2.610	2.529	3.1	86	0.00
25 T Methyl tert-Butyl Ether	4.352	4.211	3.2	86	0.00
26 T Vinyl Acetate	0.249	0.243	2.4	97	0.00
27 T 2-Butanone	0.982	0.948	3.5	88	0.00
28 T cis-1,2-Dichloroethene	2.126	2.035	4.3	87	0.00
29 T Diisopropyl Ether	1.204	1.139	5.4	86	0.00
30 T Ethyl Acetate	0.530	0.505	4.7	85	0.00
31 T n-Hexane	2.676	2.505	6.4	84	0.00
32 T Chloroform	2.280	2.119	7.1	84	0.00
33 S 1,2-Dichloroethane-d4 (SS1)	1.732	1.595	7.9	78	0.00
34 T Tetrahydrofuran	0.939	0.927	1.3	89	0.00
35 T Ethyl tert-Butyl Ether	1.686	1.633	3.1	87	0.00
36 T 1,2-Dichloroethane	2.202	2.055	6.7	84	-0.01
37 IR 1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	0.00
38 T 1,1,1-Trichloroethane	0.569	0.537	5.6	84	0.00

*Handwritten:* 6/03/08



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 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	0.214	0.218	-1.9	89	0.00
40 T	1-Butanol	0.344	0.347	-0.9	89	0.00
41 T	Benzene	1.309	1.245	4.9	86	0.00
42 T	Carbon Tetrachloride	0.504	0.486	3.6	84	0.00
43 T	Cyclohexane	0.509	0.486	4.5	87	0.00
44 T	tert-Amyl Methyl Ether	0.939	0.897	4.5	85	0.00
45 T	1,2-Dichloropropane	0.350	0.332	5.1	87	0.00
46 T	Bromodichloromethane	0.442	0.425	3.8	85	0.00
47 T	Trichloroethene	0.402	0.369	8.2	88	0.00
48 T	1,4-Dioxane	0.247	0.240	2.8	88	0.00
49 T	Isooctane	1.501	1.454	3.1	88	0.00
50 T	Methyl Methacrylate	0.131	0.134	-2.3	90	0.00
51 T	n-Heptane	0.348	0.335	3.7	85	0.00
52 T	cis-1,3-Dichloropropene	0.520	0.510	1.9	86	0.00
53 T	4-Methyl-2-pentanone	0.348	0.344	1.1	87	0.00
54 T	trans-1,3-Dichloropropene	0.449	0.440	2.0	85	0.00
55 T	1,1,2-Trichloroethane	0.323	0.316	2.2	87	0.00
56 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
57 S	Toluene-d8 (SS2)	2.245	2.200	2.0	82	0.00
58 T	Toluene	3.052	2.902	4.9	86	0.00
59 T	2-Hexanone	2.103	2.028	3.6	82	0.00
60 T	Dibromochloromethane	0.824	0.821	0.4	87	0.00
61 T	1,2-Dibromoethane	0.799	0.772	3.4	85	0.00
62 T	Butyl Acetate	2.135	2.078	2.7	84	0.00
63 T	n-Octane	0.675	0.662	1.9	88	0.00
64 T	Tetrachloroethene	0.903	0.869	3.8	89	0.00
65 T	Chlorobenzene	2.046	1.944	5.0	85	0.00
66 T	Ethylbenzene	3.500	3.364	3.9	84	0.00
67 T	m- & p-Xylene	2.341	2.234	4.6	84	0.00
68 T	Bromoform	0.613	0.613	0.0	86	0.00
69 T	Styrene	2.092	2.022	3.3	84	0.00
70 T	o-Xylene	2.527	2.401	5.0	84	0.00
71 T	n-Nonane	1.794	1.705	5.0	82	0.00
72 T	1,1,2,2-Tetrachloroethane	1.053	1.040	1.2	82	0.00
73 S	Bromofluorobenzene (SS3)	0.913	0.887	2.8	80	0.00
74 T	Cumene	3.365	3.235	3.9	85	0.00
75 T	alpha-Pinene	1.740	1.622	6.8	82	0.00
76 T	n-Propylbenzene	4.282	4.173	2.5	84	0.00

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 2006/03/08

**1393**

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77 T 3-Ethyltoluene	3.582	3.465	3.3	85	0.00
78 T 4-Ethyltoluene	3.339	3.304	1.0	83	0.00
79 T 1,3,5-Trimethylbenzene	3.017	2.860	5.2	83	0.00
80 T alpha-Methylstyrene	1.633	1.595	2.3	84	0.00
81 T 2-Ethyltoluene	3.630	3.533	2.7	82	0.00
82 T 1,2,4-Trimethylbenzene	3.071	2.897	5.7	81	0.00
83 T n-Decane	1.690	1.628	3.7	81	0.00
84 T Benzyl Chloride	2.061	2.075	-0.7	84	0.00
85 T 1,3-Dichlorobenzene	1.920	1.830	4.7	82	0.00
86 T 1,4-Dichlorobenzene	1.861	1.810	2.7	84	0.00
87 T sec-Butylbenzene	3.925	3.790	3.4	82	0.00
88 T p-Isopropyltoluene	3.231	3.160	2.2	82	0.00
89 T 1,2,3-Trimethylbenzene	3.005	2.876	4.3	81	0.00
90 T 1,2-Dichlorobenzene	1.821	1.730	5.0	81	0.00
91 T d-Limonene	1.224	1.119	8.6	78	0.00
92 T 1,2-Dibromo-3-Chloropropane	0.565	0.597	-5.7	86	0.00
93 T n-Undecane	1.768	1.720	2.7	82	0.00
94 T 1,2,4-Trichlorobenzene	1.334	1.294	3.0	86	0.00
95 T Naphthalene	4.051	4.054	-0.1	85	0.00
96 T n-Dodecane	1.759	1.692	3.8	84	0.00
97 T Hexachloro-1,3-butadiene	0.888	0.855	3.7	85	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

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 6/3/08



Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane (IS1)	12.58	130	327394	25.000	ng	0.00
37) 1,4-Difluorobenzene (IS2)	15.51	114	1420024	25.000	ng	0.00
56) Chlorobenzene-d5 (IS3)	21.35	82	673142	25.000	ng	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4 (...)	13.72	65	522245	23.022	ng	0.00
Spiked Amount	25.000					Recovery = 92.08% ✓
57) Toluene-d8 (SS2)	18.92	98	1480610	24.491	ng	0.00
Spiked Amount	25.000					Recovery = 97.96% ✓
73) Bromofluorobenzene (SS3)	23.29	174	596778	24.275	ng	0.00
Spiked Amount	25.000					Recovery = 97.12% ✓

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propene	4.80	42	118042	4.565	ng	92
3) Dichlorodifluoromethane	4.96	85	224562	4.712	ng	99
4) Chloromethane	5.28	50	162208	5.256	ng	96
5) Freon 114	5.53	135	118668	5.062	ng	100
6) Vinyl Chloride	5.72	62	152259	4.931	ng	97
7) 1,3-Butadiene	5.99	54	126854	5.523	ng	# 80
8) Bromomethane	6.48	94	92169	5.360	ng	99
9) Chloroethane	6.82	64	78153	5.328	ng	97
10) Ethanol	7.09	45	72638	4.220	ng	95
11) Acetonitrile	7.42	41	214452	4.308	ng	96
12) Acrolein	7.64	56	58265	4.738	ng	97
13) Acetone	7.85	58	92451	5.246	ng	# 72
14) Trichlorofluoromethane	8.14	101	200348	4.900	ng	100
15) Isopropanol	8.30	45	291172	5.180	ng	94
16) Acrylonitrile	8.63	53	135915	5.065	ng	98
17) 1,1-Dichloroethene	9.15	96	100125	5.567	ng	# 76
18) tert-Butanol	9.24	59	253834	5.309	ng	95
19) Methylene Chloride	9.35	84	102922	5.225	ng	# 79
20) Allyl Chloride	9.54	41	154101	5.864	ng	99
21) Trichlorotrifluoroethane	9.81	151	103145	5.547	ng	92
22) Carbon Disulfide	9.76	76	355030	4.750	ng	97
23) trans-1,2-Dichloroethene	10.79	61	156149	5.360	ng	81
24) 1,1-Dichloroethane	11.09	63	183815	5.378	ng	95
25) Methyl tert-Butyl Ether	11.19	73	306088	5.371	ng	85
26) Vinyl Acetate	11.34	86	15562	4.778	ng	# 92
27) 2-Butanone	11.67	72	69507	5.404	ng	# 92
28) cis-1,2-Dichloroethene	12.34	61	147922	5.312	ng	82
29) Diisopropyl Ether	12.68	87	76824	4.874	ng	# 91
30) Ethyl Acetate	12.68	61	42031	6.053	ng	75
31) n-Hexane	12.70	57	183720	5.243	ng	89

*Handwritten:* 06/03/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
32) Chloroform	12.78	83	179012	5.996	ng	99
34) Tetrahydrofuran	13.35	72	67342	5.476	ng #	89
35) Ethyl tert-Butyl Ether	13.48	87	112258	5.086	ng #	74
36) 1,2-Dichloroethane	13.88	62	147985	5.131	ng	99
38) 1,1,1-Trichloroethane	14.29	97	167799	5.189	ng	96
39) Isopropyl Acetate	14.83	61	62390	5.144	ng #	49
40) 1-Butanol	14.84	56	89575	4.589	ng #	63
41) Benzene	14.98	78	388967	5.231	ng	100
42) Carbon Tetrachloride	15.21	117	147723	5.159	ng	99
43) Cyclohexane	15.41	84	153162	5.295	ng #	75
44) tert-Amyl Methyl Ether	15.86	73	264918	4.967	ng	95
45) 1,2-Dichloropropane	16.19	63	102817	5.168	ng	98
46) Bromodichloromethane	16.45	83	138846	5.524	ng	99
47) Trichloroethene	16.53	130	119424	5.236	ng	99
48) 1,4-Dioxane	16.49	88	78491	5.597	ng	82
49) Isooctane	16.62	57	429365	5.037	ng	84
50) Methyl Methacrylate	16.79	100	40367	5.433	ng	91
51) n-Heptane	16.98	71	105581	5.344	ng #	79
52) cis-1,3-Dichloropropene	17.72	75	150782	5.102	ng	99
53) 4-Methyl-2-pentanone	17.76	58	102667	5.201	ng	78
54) trans-1,3-Dichloropropene	18.42	75	144898	5.683	ng	98
55) 1,1,2-Trichloroethane	18.67	97	97793	5.322	ng	97
58) Toluene	19.06	91	429782	5.230	ng	97
59) 2-Hexanone	19.37	43	278446	4.917	ng	84
60) Dibromochloromethane	19.59	129	122663	5.526	ng	99
61) 1,2-Dibromoethane	19.93	107	113319	5.268	ng	99
62) Butyl Acetate	20.18	43	293733	5.111	ng	87
63) n-Octane	20.35	57	92726	5.102	ng	89
64) Tetrachloroethene	20.54	166	127515	5.244	ng	100
65) Chlorobenzene	21.41	112	287842	5.225	ng	99
66) Ethylbenzene	21.88	91	489182	5.192	ng	94
67) m- & p-Xylene	22.12	91	775946	12.311	ng	91
68) Bromoform	22.21	173	108111	6.546	ng	100
69) Styrene	22.57	104	294030	5.219	ng	98
70) o-Xylene	22.71	91	394302	5.795	ng	94
71) n-Nonane	22.98	43	236446	4.894	ng	84
72) 1,1,2,2-Tetrachloroethane	22.68	83	172278	6.075	ng	97
74) Cumene	23.46	105	470353	5.191	ng	99
75) alpha-Pinene	23.96	93	231446	4.940	ng	95
76) n-Propylbenzene	24.10	91	589947	5.117	ng	98
77) 3-Ethyltoluene	24.23	105	475824	4.934	ng	99
78) 4-Ethyltoluene	24.28	105	493708	5.491	ng	99
79) 1,3,5-Trimethylbenzene	24.37	105	415902	5.120	ng	99

*8/06/03/08*

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 03 11:04:55 2008  
 Quant Method : J:\MS13\METHODS\R13052208.M  
 Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 QLast Update : Thu May 22 11:37:04 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	24.56	118	218977	4.980	ng	96
81) 2-Ethyltoluene	24.61	105	470884	4.818	ng	99
82) 1,2,4-Trimethylbenzene	24.88	105	429092	5.189	ng	99
83) n-Decane	24.98	57	227951	5.010	ng	85
84) Benzyl Chloride	25.04	91	298908	5.387	ng	98
85) 1,3-Dichlorobenzene	25.08	146	261151	5.051	ng	100
86) 1,4-Dichlorobenzene	25.16	146	268043	5.348	ng	99
87) sec-Butylbenzene	25.21	105	545890	5.165	ng	98
88) p-Isopropyltoluene	25.39	119	501999	5.770	ng	96
89) 1,2,3-Trimethylbenzene	25.40	105	425887	5.263	ng	99
90) 1,2-Dichlorobenzene	25.58	146	251588	5.131	ng	99
91) d-Limonene	25.58	68	159623	4.845	ng	99
92) 1,2-Dibromo-3-Chloropr...	26.10	157	83532	5.489	ng	95
93) n-Undecane	26.50	57	243144	5.106	ng	85
94) 1,2,4-Trichlorobenzene	27.62	180	195156	5.434	ng	95
95) Naphthalene	27.77	128	573120	5.255	ng	99
96) n-Dodecane	27.74	57	241441	5.098	ng	82
97) Hexachloro-1,3-butadiene	28.19	225	127754	5.344	ng	98

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

*Handwritten signature*  
 6/3/08

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:41:46 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min  
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 IR	Bromochloromethane (IS1)	1.000	1.000	0.0	83	-0.02
2 S	1,2-Dichloroethane-d4 (SS1)	1.732	1.595	7.9	78	-0.03
3 IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	84	-0.02
4 I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	84	0.00
5 S	Toluene-d8 (SS2)	2.245	2.200	2.0	82	-0.02
6 S	Bromofluorobenzene (SS3)	0.913	0.887	2.8	80	0.00
7	tert-Butylbenzene	2.936	2.830	3.6	83	-0.02
8	n-Butylbenzene	3.247	3.174	2.2	81	-0.01

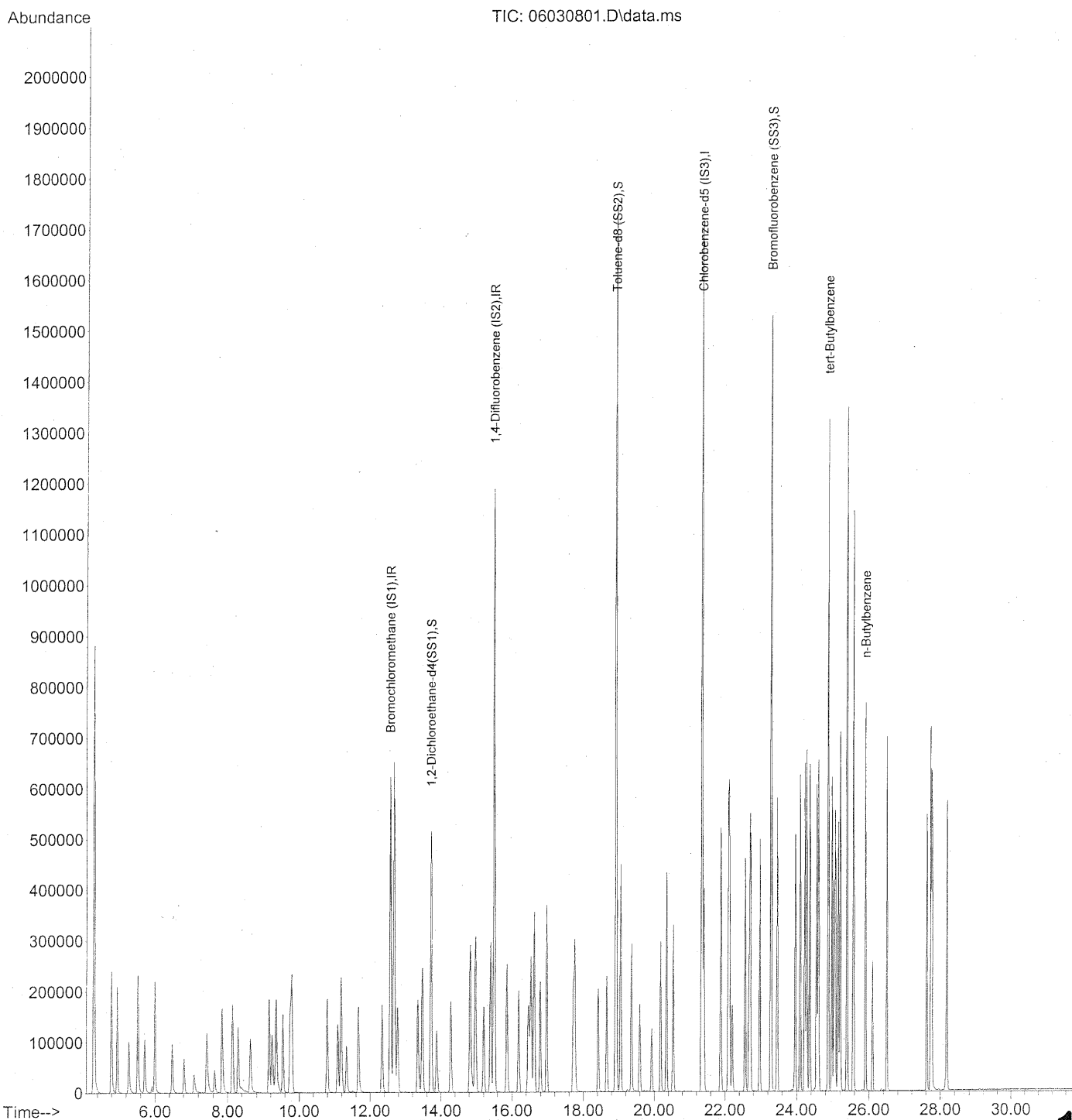
(#) = Out of Range

SPCC's out = 0 CCC's out = 0

*06/04/08*

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:41:46 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration





Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:41:46 2008  
 Quant Method : J:\MS13\METHODS\S13052208.M  
 Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD  
 QLast Update : Sun May 25 20:32:30 2008  
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
1) Bromochloromethane (IS1)	12.58	130	327394	25.000	ng	-0.02	
3) 1,4-Difluorobenzene (IS2)	15.51	114	1420024	25.000	ng	-0.02	
4) Chlorobenzene-d5 (IS3)	21.35	82	673142	25.000	ng	0.00	
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...)	13.72	65	522245	23.022	ng	-0.03	
Spiked Amount				25.000			Recovery = 92.08%✓
5) Toluene-d8 (SS2)	18.92	98	1480610	24.491	ng	-0.02	
Spiked Amount				25.000			Recovery = 97.96%✓
6) Bromofluorobenzene (SS3)	23.29	174	596778	24.275	ng	0.00	
Spiked Amount				25.000			Recovery = 97.12%✓
Target Compounds							
7) tert-Butylbenzene	24.88	119	396250	5.013	ng		Qvalue 99
8) n-Butylbenzene	25.91	91	457179	5.230	ng		98

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

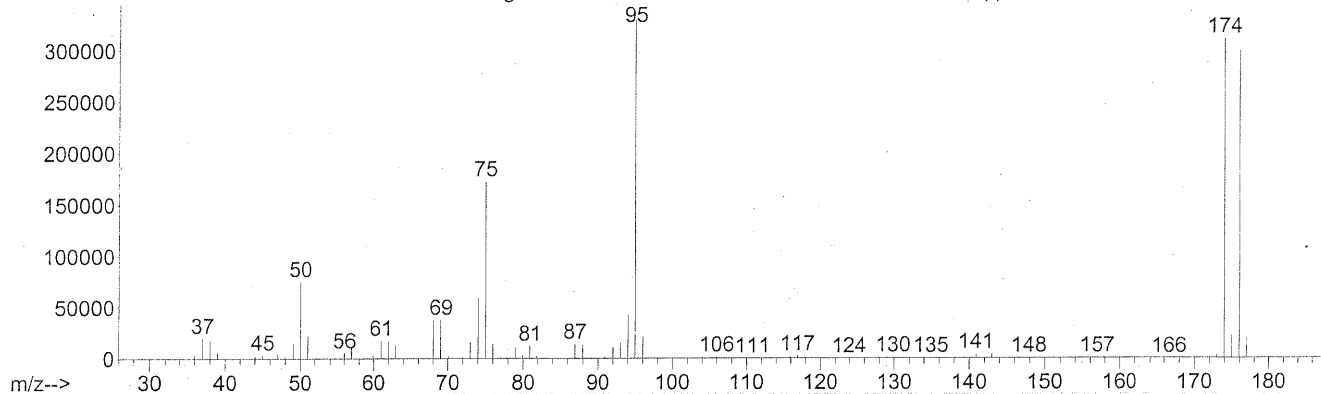
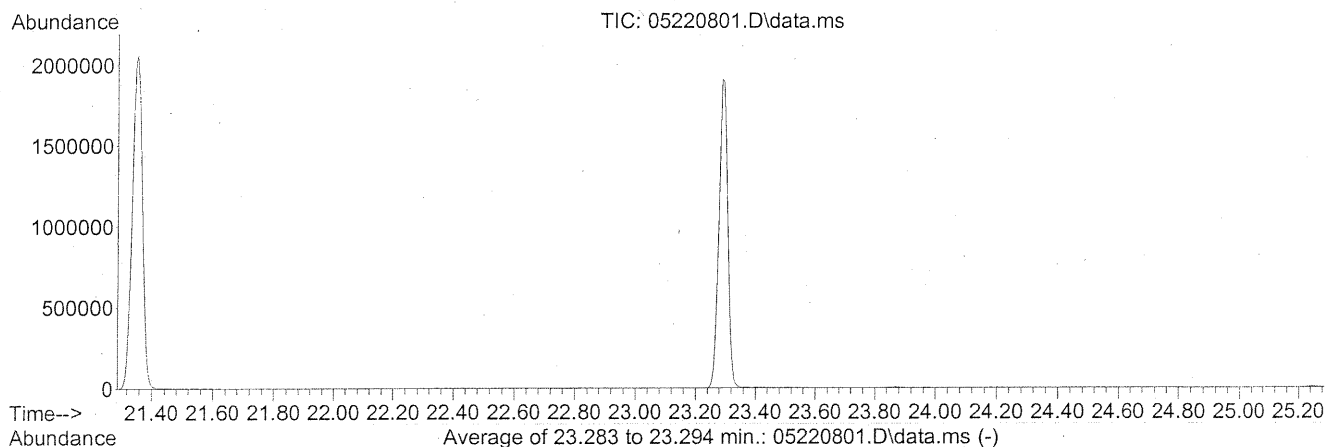
*For 6/4/08*

## BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS13\DATA\2008\_05\22\  
 Data File : 05220801.D  
 Acq On : 22 May 2008 3:15 am  
 Operator : RTB  
 Sample : BFB Tune Standard (200mL)  
 Misc : S20-04300802  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3373, 3374, 3375; Background Corrected with Scan 3363

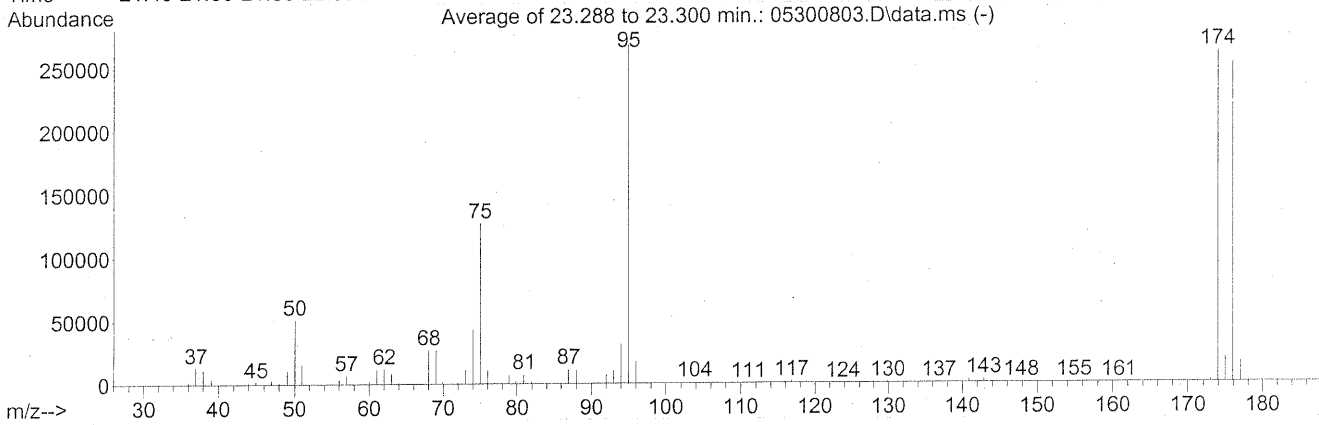
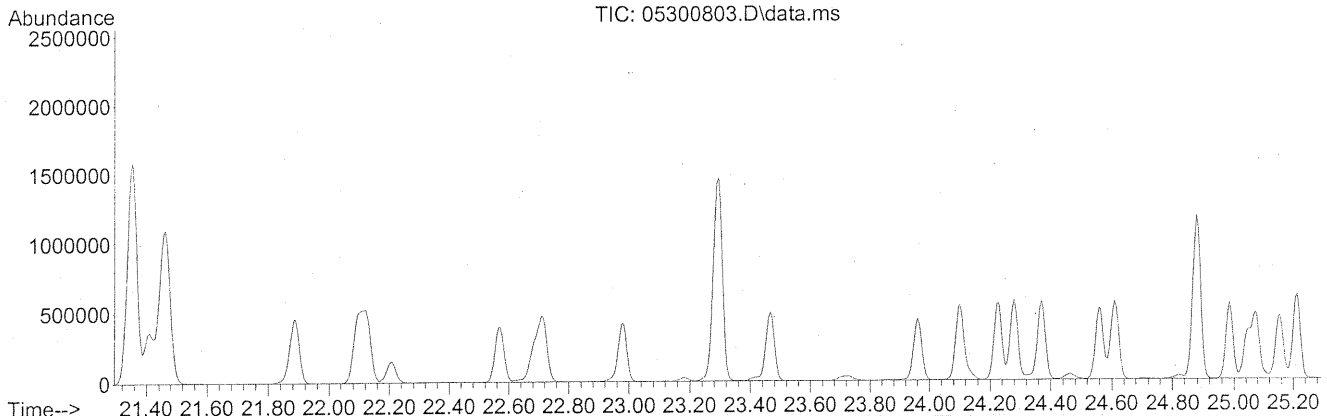
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	75640	PASS
75	95	30	66	52.4	172992	PASS
95	95	100	100	100.0	330048	PASS
96	95	5	9	6.6	21824	PASS
173	174	0.00	2	1.3	4088	PASS
174	95	50	120	94.4	311659	PASS
175	174	4	9	7.6	23637	PASS
176	174	93	101	96.0	299328	PASS
177	176	5	9	6.5	19533	PASS

*Handwritten signature*  
 5/22/08

Data Path : J:\MS13\DATA\2008\_05\30\  
 Data File : 05300803.D  
 Acq On : 30 May 2008 8:12  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

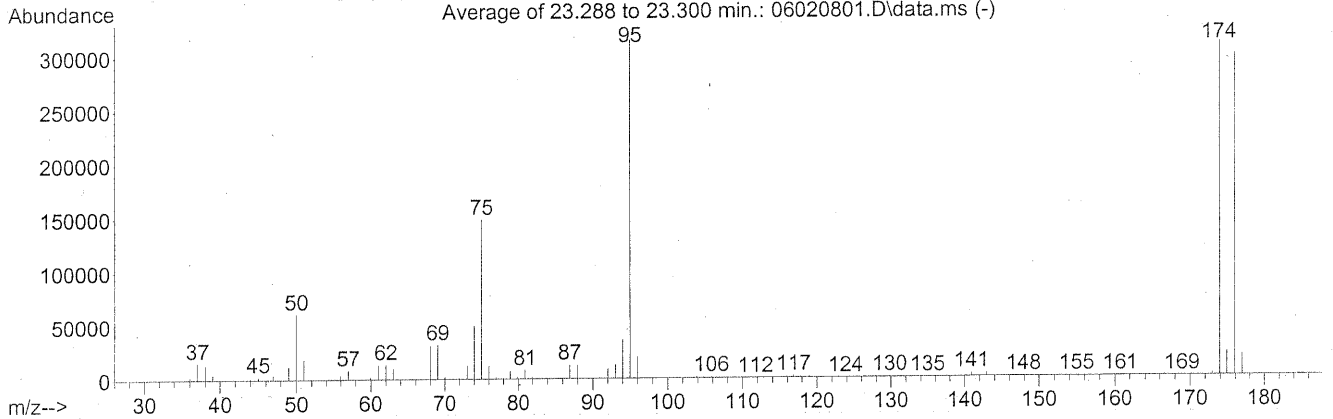
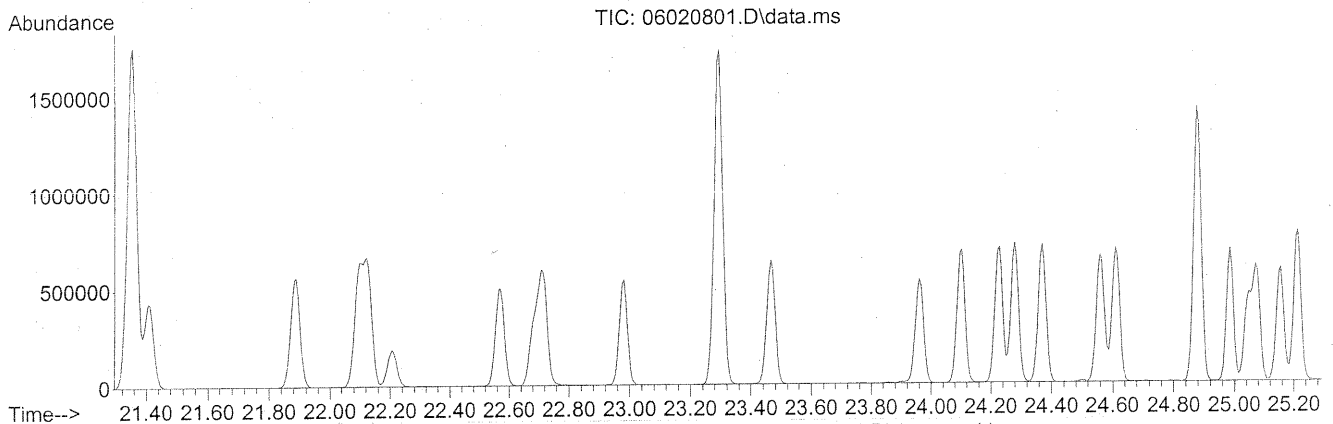
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.3	51653	PASS
75	95	30	66	47.5	127216	PASS
95	95	100	100	100.0	268053	PASS
96	95	5	9	6.5	17507	PASS
173	174	0.00	2	1.0	2676	PASS
174	95	50	120	98.2	263253	PASS
175	174	4	9	7.4	19501	PASS
176	174	93	101	96.1	252949	PASS
177	176	5	9	6.5	16424	PASS

*Handwritten signature and date: 5/30/08*

Data Path : J:\MS13\DATA\2008\_06\02\  
 Data File : 06020801.D  
 Acq On : 2 Jun 2008 8:49 am  
 Operator : WA  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-05160801/S20-05210804  
 ALS Vial : 5 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

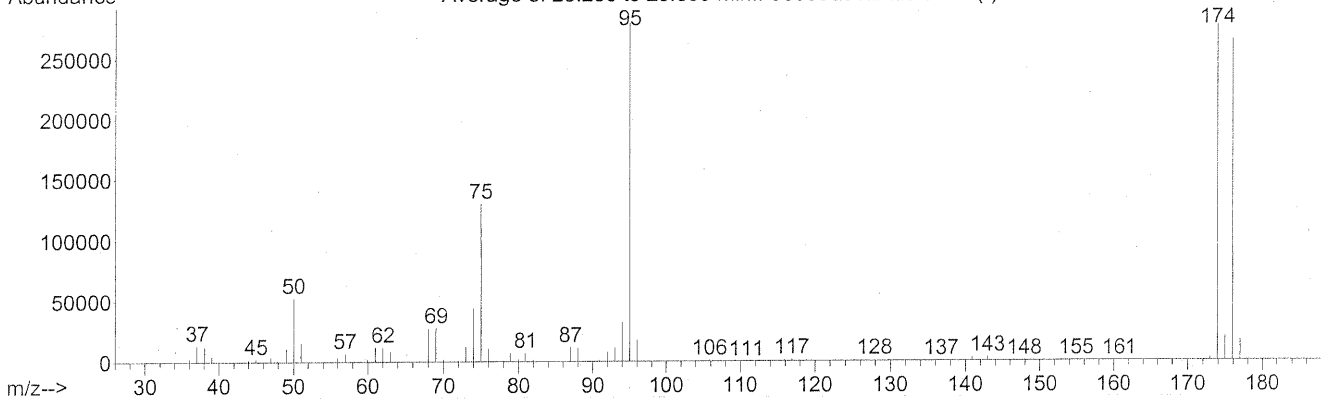
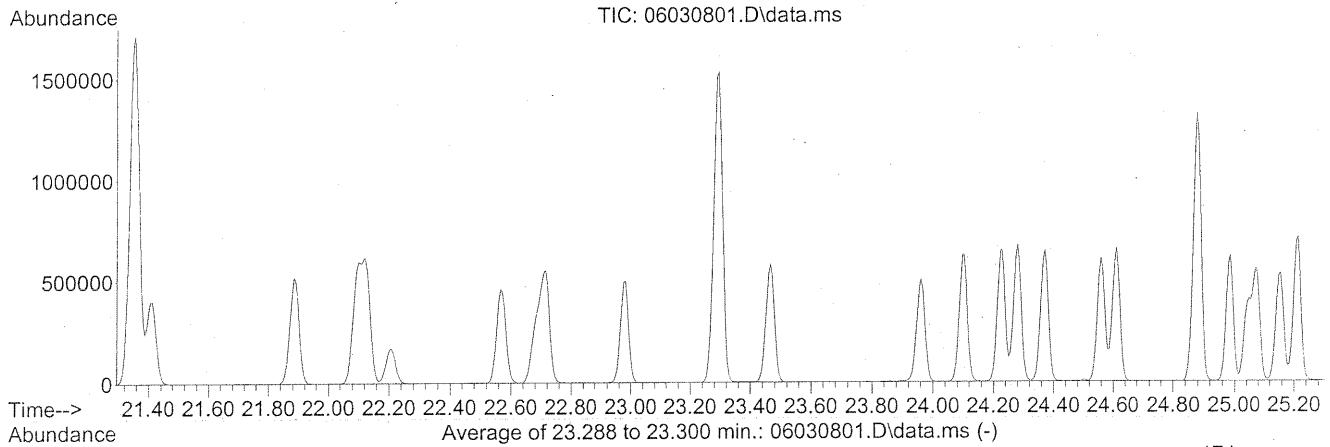
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.6	61571	PASS
75	95	30	66	47.3	148827	PASS
95	95	100	100	100.0	314816	PASS
96	95	5	9	6.6	20635	PASS
173	174	0.00	2	0.9	2933	PASS
174	95	50	120	98.9	311253	PASS
175	174	4	9	7.3	22592	PASS
176	174	93	101	96.5	300288	PASS
177	176	5	9	6.6	19909	PASS

*06/02/08*

Data Path : J:\MS13\DATA\2008\_06\03\  
 Data File : 06030801.D  
 Acq On : 3 Jun 2008 8:26 am  
 Operator : RTB  
 Sample : 5ng TO-15 CCV Standard  
 Misc : S20-06020803/S20-05210804  
 ALS Vial : 4 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS13\METHODS\R13052208.M  
 Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)  
 Last Update : Thu May 22 11:37:04 2008



AutoFind: Scans 3374, 3375, 3376; Background Corrected with Scan 3363

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.9	52904	PASS
75	95	30	66	46.7	130325	PASS
95	95	100	100	100.0	279339	PASS
96	95	5	9	6.4	18004	PASS
173	174	0.00	2	1.0	2656	PASS
174	95	50	120	99.1	276885	PASS
175	174	4	9	7.4	20435	PASS
176	174	93	101	95.7	264960	PASS
177	176	5	9	6.5	17202	PASS

*Handwritten signature:* 6/03/08

RUN LOGS

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
15	05/21/08 8:29	05200815.D	S20-04250805 (125mL)	Test	13	RB	
16	05/21/08 9:10	05200816.D	S20-05020806 (125mL)	Test	15	RB	
17	05/21/08 9:50	05200817.D	S20-04250804 (250mL)	Test	14	RB	
18	05/21/08 15:19	05200818.D	S20-05210804 (125mL)	Test	C	RB	
19	05/21/08 16:03	05200819.D	S20-05210806 (250mL)	Test	B	RB	
20	05/21/08 16:59	05200820.D	S20-05210809 (25mL)	Test	15	RB	
21	05/21/08 21:15	05200821.D	Blank (100mL)	Test	4	RB	
22	05/21/08 22:00	05200822.D	Blank (100mL)	Test	4	RB	
23	05/22/08 2:38	05200823.D	Blank (100mL)	Test	4	RB	

3-CP (b. high)

1	05/22/08 3:15	05220801.D	BFB Tune Standard (200mL)	S20-04300802	4	RB	
2	05/22/08 3:56	05220802.D	0.1ng TO-15 ICAL Standard	S20-04300802/S20-05210809	15	RB	ICAL: good for everything
3	05/22/08 4:37	05220803.D	0.5ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	
4	05/22/08 5:18	05220804.D	1ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	
5	05/22/08 5:58	05220805.D	5ng TO-15 ICAL Standard	S20-04300802/S20-05210806	B	RB	
6	05/22/08 6:39	05220806.D	25ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
7	05/22/08 7:20	05220807.D	50ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
8	05/22/08 8:01	05220808.D	100ng TO-15 ICAL Standard	S20-04300802/S20-05210804	C	RB	
9	05/22/08 8:41	05220809.D	25ng TO-15 ICV Standard	S20-04300802/S20-04290803	16	RB	
10	05/22/08 12:13	05220810.D	TO-15 Method Blank (1.0L)	S20-04300802	4	RB	Passed
11	05/22/08 13:41	05220811.D	P0801459-004 (1000mL)	██████████ (-3.5, 1.0)	1	RB	
12	05/22/08 14:23	05220812.D	P0801459-006 (1000mL)	██████████ (-3.6, 1.0)	2	RB	
13	05/22/08 15:05	05220813.D	P0801459-008 (1000mL)	██████████ (-3.7, 1.0)	3	RB	
14	05/22/08 15:46	05220814.D	P0801459-010 (1000mL)	██████████ (-4.5, 1.2)	5	RB	
15	05/22/08 16:29	05220815.D	P0801459-023 (100mL)	██████████ (-3.1, 1.1)	6	RB	
16	05/22/08 17:19	05220816.D	P0801459-023 DUP (100mL)	██████████ (-3.1, 1.1)	6	RB	Passed
17	05/22/08 20:00	05220817.D	P0801459-011 (1000mL)	██████████ (-2.7, 1.2)	7	RB	
18	05/22/08 20:40	05220818.D	P0801459-012 (400mL)	██████████ (-2.7, 10.0)	8	RB	
19	05/22/08 21:23	05220819.D	P0801459-013 (1000mL)	██████████ (-2.7, 3.1)	9	RB	
20	05/22/08 22:04	05220820.D	P0801459-014 (1000mL)	██████████ (-4.1, 1.0)	10	RB	
21	05/22/08 22:46	05220821.D	P0801459-015 (1000mL)	██████████ (-3.4, 1.0)	11	RB	
22	05/22/08 23:29	05220822.D	P0801459-016 (1000mL)	██████████ (-3.5, 1.4)	12	RB	
23	05/23/08 0:12	05220823.D	P0801459-017 (1000mL)	██████████ (-3.2, 1.0)	13	RB	
24	05/23/08 0:54	05220824.D	P0801459-018 (1000mL)	██████████ (-3.2, 1.0)	14	RB	
25	05/23/08 1:35	05220825.D	P0801459-019 (400mL)	██████████ (-2.7, 10.1)	15	RB	
26	05/23/08 2:16	05220826.D	P0801459-004 DIL (50mL)	██████████ (-3.5, 1.0)	1	RB	
27	05/23/08 3:01	05220827.D	Blank (100mL)	Test	4	RB	
28	05/23/08 7:08	05220828.D	Blank (100mL)	Test	4	RB	
29	05/23/08 7:45	05220829.D	S20-05210806 (250mL)	Test	B	RB	



	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT
1		05300801.D		no data	4	WA	
2		05300802.D		no data	4	WA	
3	05/30/08 8:12	05300803.D	5ng TO-15 CCV Standard	S20-05160801/S20-05210804	C	WA	- Passed
4	05/30/08 9:29	05300804.D	TO-15 Method Blank (1000ml)	S20-05160801	4	WA	- Failed
5	05/30/08 11:05	05300805.D	TO-15 Method Blank (1000ml)	S20-05160801	4	WA	- Passed
6	05/30/08 11:46	05300806.D	25ng TO-15 LCS	S20-05160801/S20-05290805	15	WA	- Passed
7	05/30/08 12:26	05300807.D	25ng TO-15 LCSD	S20-05160801/S20-05290805	15	WA	
8	05/30/08 13:37	05300808.D	P0801548-001 Dil (25ml)	ENSR SG91B-05 (-3.3,3.5)	5	WA	
9	05/30/08 14:25	05300809.D	P0801548-009 Dil (0.50ml)	ENSR SG69B-05 (-3.5,3.5)	4	WA	
10	05/30/08 15:06	05300810.D	P0801548-009 (5.0ml)	ENSR SG69B-05 (-3.5,3.5)	4	WA	
11	05/30/08 15:48	05300811.D	P0801548-008 Dil (5.0ml)	ENSR SG42B-05 (-5.3,3.5)	4	WA	- Case file; not needed
12	05/30/08 16:33	05300812.D	P0801548-003 (1000ml)	ENSR SG46B-05 (-3.2,3.5)	3	WA	
13	05/30/08 17:27	05300813.D	P0801548-004 (1000ml)	ENSR SG68B-05 (-2.9,3.5)	5	WA	
14	05/30/08 18:24	05300814.D	P0801548-004 Dup (1000ml)	ENSR SG68B-05 (-2.9,3.5)	5	WA	- Passed
15	05/30/08 21:10	05300815.D	Blank (100ml)		4	WA	
16	05/30/08 21:51	05300816.D	P0801548-001 (500ml)	ENSR SG91B-05 (-3.3,3.5)	1	WA	
17	05/30/08 22:32	05300817.D	P0801548-002 (500ml)	ENSR SG93B-05 (-3.6,3.5)	2	WA	
18	05/30/08 23:13	05300818.D	P0801548-002 Dil (50ml)	ENSR SG93B-05 (-3.6,3.5)	2	WA	
19	05/30/08 23:54	05300819.D	P0801548-003 Dil (100ml)	ENSR SG46B-05 (-3.2,3.5)	3	WA	
20	05/31/08 0:37	05300820.D	P0801548-005 (1000ml)	ENSR SG67B-05 (-3.8,3.5)	6	WA	
21	05/31/08 1:18	05300821.D	P0801548-005 Dil (100ml)	ENSR SG67B-05 (-3.8,3.5)	6	WA	
22	05/31/08 2:00	05300822.D	P0801548-006 (1000ml)	ENSR SG51B-05 (-2.8,3.5)	7	WA	
23	05/31/08 2:41	05300823.D	P0801548-007 (250ml)	ENSR SG51B-05D (-2.9,3.6)	8	WA	
24	05/31/08 3:22	05300824.D	P0801548-008 (500ml)	ENSR SG42B-05 (-5.3,3.5)	9	WA	
25	05/31/08 4:04	05300825.D	P0801548-010 (1000ml)	ENSR SG48B-05 (-3.2,3.5)	10	WA	
26	05/31/08 4:45	05300826.D	P0801548-010 Dil (100ml)	ENSR SG48B-05 (-3.2,3.5)	10	WA	- Case file; not needed
27	05/31/08 5:28	05300827.D	P0801548-011 (1000ml)	ENSR SG47B-05 (-3.7,3.6)	11	WA	
28	05/31/08 6:31	05300828.D	P0801548-011 Dil (50ml)	ENSR SG47B-05 (-3.7,3.6)	11	WA	
29	05/31/08 7:12	05300829.D	Blank (100ml)	S20-05160801	4	WA	
30	05/31/08 7:53	05300830.D	S20-05210804 (250mL)	Test	B	WA	
31	05/31/08 8:34	05300831.D	0.5ng RL check	S20-05160801/S20-05210804	B	WA	
32	05/31/08 9:16	05300832.D	Blank (1.0L)	Test	4	WA	

1	06/02/08 8:49	06020801.D	5ng TO-15 CCV Standard	S20-05160801/S20-05210804	C	WA	- Passed
2	06/02/08 9:37	06020802.D	25ng MAPH CCV Standard	S20-05160801/S20-06020802	16	WA	- Passed
3	06/02/08 10:40	06020803.D	TO-15/MAPH Method Blank (1.0L)	S20-05160801	4	RB	- Passed
4	06/02/08 11:21	06020804.D	25ng TO-15 LCS	S20-05160801/S20-05290805	15	RB	- Passed
5	06/02/08 12:02	06020805.D	25ng TO-15 LCSD	S20-05160801/S20-05290805	15	RB	- Passed
6	06/02/08 12:46	06020806.D	25ng MAPH LCS	S20-05160801/S20-05060803	14	RB	- Passed
7	06/02/08 1:43	06020807.D	25ng MAPH LCSD	S20-05160801/S20-05060803	14	RB	- Passed
8	06/02/08 2:24	06020808.D	P0801548-012 DIL (30mL)	ENSR SG53B-05 (-3.7, 3.5)	12	RB	
9	06/02/08 3:06	06020809.D	P0801560-001 (1000mL)	[REDACTED] (-6.1, 3.8)	1	RB	
10	06/02/08 3:47	06020810.D	P0801548-018 (25mL)	ENSR SG54B-05 (-4.5, 3.5)	5	RB	
11	06/02/08 4:27	06020811.D	P0801560-001 DUP (1000mL)	[REDACTED] (-6.1, 3.8)	1	RB	- Passed
12	06/02/08 5:15	06020812.D	P0801548-006 DIL (50mL)	ENSR SG51B-05 (-2.8, 3.5)	7	RB	- NOT USED; BAD RUN
13	06/02/08 5:56	06020813.D	P0801548-007 DIL (25mL)	ENSR SG51B-05D (-2.9, 3.6)	8	RB	

	DATE/TIME	FILENAME	SAMPLE ID	MISC. INFO	AS POS	INIT	COMMENT	DAT
14	06/02/08 7:00	06020814.D	P0801548-018 DIL (2mL)	ENSR SG54B-05 (-4.5, 3.5)	4	RB		
15	06/02/08 7:41	06020815.D	P0801560-002 (1000mL)	[REDACTED] (-4.4, 3.5)	2	RB		1 06/0
16	06/02/08 8:24	06020816.D	P0801560-003 (1000mL)	[REDACTED] (-4.6, 3.5)	3	RB		2 06/0
17	06/02/08 9:05	06020817.D	P0801548-012 (500mL)	ENSR SG53B-05 (-3.7, 3.5)	12	RB		3 06/0
18	06/02/08 9:46	06020818.D	P0801548-013 (500mL)	ENSR SG53B-05D (-1.6, 3.5)	13	RB		4 06/0
19	06/02/08 10:27	06020819.D	P0801548-014 (500mL)	ENSR SG49B-05 (-3.5, 3.5)	9	RB	- Case File; run @ 1.0L	5 06/0
20	06/02/08 11:08	06020820.D	P0801548-015 (500mL)	ENSR SG66B-05 (-2.8, 3.5)	10	RB		6 06/0
21	06/02/08 11:49	06020821.D	P0801548-016 (500mL)	ENSR SG50B-05 (-4.5, 3.5)	11	RB	- Case File; run @ 1.0L	7 06/0
22	06/03/08 12:30	06020822.D	P0801548-017 (500mL)	ENSR SG50B-05 (-4.5, 3.5) <sup>45 (-2.4, 3.6)</sup>	1	RB	- Case File; run @ 1.0L	8 06/0
23	06/03/08 1:11	06020823.D	P0801548-019 (500mL)	ENSR SG87B-05 (-6.3, 3.5) <sup>61101</sup>	6	RB	- Case File; run @ 1.0L	9 06/0
24	06/03/08 1:51	06020824.D	P0801548-013 DIL (25mL)	ENSR SG53B-05D (-1.6, 3.5)	13	RB		10 06/0
25	06/03/08 2:32	06020825.D	P0801548-014 DIL (25mL)	ENSR SG49B-05 (-3.5, 3.5)	9	RB	- Case File; not needed	11 06/0
26	06/03/08 3:13	06020826.D	P0801548-015 DIL (25mL)	ENSR SG66B-05 (-2.8, 3.5)	10	RB		12 06/0
27	06/03/08 3:54	06020827.D	P0801548-006 DIL (25mL)	ENSR SG51B-05 (-2.8, 3.5)	7	RB		13 06/0
28	06/03/08 4:35	06020828.D	Blank (100mL)	Test	4	RB		14 06/0
29	06/03/08 5:20	06020829.D	Blank (100mL)	Test	4	RB		15 06/0
30	06/03/08 7:08	06020830.D	Blank (100mL)	Test	4	RB		16 06/0
31	06/03/08 7:45	06020831.D	S20-05210806 (250mL)	Test	B	RB		17 06/0

1	06/03/08 8:26	06030801.D	5ng TO-15 CCV Standard	S20-06020803/S20-05210804	C	RB	- Passed	18 06/0
2	06/03/08 9:08	06030802.D	TO-15 Method Blank (1.0L)	S20-06020803	4	RB	- Passed	19 06/0
3	06/03/08 9:49	06030803.D	25ng TO-15 LCS	S20-06020803/S20-05290805	15	RB	- Passed	20 06/0
4	06/03/08 11:45	06030804.D	P0801548-014 (1000mL)	ENSR SG49B-05 (-3.5, 3.5)	9	RB		21 06/0
5	06/03/08 12:27	06030805.D	P0801548-016 (1000mL)	ENSR SG50B-05 (-4.5, 3.5)	11	RB		22 06/0
6	06/03/08 1:08	06030806.D	P0801550-003 (1mL)	[REDACTED] (-0.7, 10.1) <sup>4</sup>	4	RB		23 06/0
7	06/03/08 1:49	06030807.D	25ng TO-15 LCSD	S20-06020803/S20-05290805	15	RB	- Passed	24 06/0
8	06/03/08 2:32	06030808.D	P0801548-017 (1000mL)	ENSR SG50B-05 <sup>45 (-2.4, 3.6)</sup> (-4.5, 3.5) <sup>61101</sup>	1	RB		25 06/0
9	06/03/08 3:29	06030809.D	P0801550-007 (0.10mL)	[REDACTED] (-1.4, 10.0) <sup>61101</sup>	4	RB	- NOT USED; BAD INJECTION	26 06/0
10	06/03/08 4:10	06030810.D	Blank (5mL)	can valve was closed!	2	RB		27 06/0
11	06/03/08 4:58	06030811.D	P0801550-004 (1mL)	[REDACTED] (-0.7, 10.0) <sup>4</sup>	4	RB		28 06/0
12	06/03/08 5:39	06030812.D	P0801550-007 (0.10mL)	[REDACTED] (-1.4, 10.0) <sup>4x</sup>	4	RB		29 06/0
13	06/03/08 6:20	06030813.D	P0801550-001 (25mL)	[REDACTED] (-0.8, 10.0) <sup>2x</sup>	2	RB		1 06/05
14	06/03/08 7:01	06030814.D	P0801550-007 (0.10mL)	[REDACTED] (-1.4, 10.0) <sup>4x</sup>	4	RB	- Case File; extra	2 06/05
15	06/03/08 7:41	06030815.D	P0801550-005 (1mL)	[REDACTED] (-0.9, 10.1) <sup>4</sup>	4	RB		3 06/05
16	06/03/08 8:22	06030816.D	P0801550-006 (1mL)	[REDACTED] (-1.1, 10.3) <sup>4</sup>	4	RB		4 06/05
17	06/03/08 9:05	06030817.D	P0801548-019 (1000mL)	ENSR SG87B-05 (-6.3, 3.5)	6	RB		5 06/05
18	06/03/08 9:46	06030818.D	P0801550-002 (400mL)	[REDACTED] (-0.7, 10.0) <sup>5</sup>	5	RB		6 06/05
19	06/03/08 10:27	06030819.D	P0801550-002 DIL (25mL)	[REDACTED] (-0.7, 10.0) <sup>5</sup>	5	RB		7 06/05
20	06/03/08 11:06	06030820.D	P0801550-003 DIL (0.30mL)	[REDACTED] (-0.7, 10.1)(30mL/5mL->500mL) <sup>7</sup>	7	RB		8 06/05
21	06/03/08 11:47	06030821.D	P0801550-004 DIL (0.30mL)	[REDACTED] (-0.7, 10.0)(30mL/5mL->500mL) <sup>8</sup>	8	RB		9 06/05
22	06/04/08 12:27	06030822.D	P0801550-005 DIL (0.25mL)	[REDACTED] (-0.9, 10.1)(25mL/5mL->500mL) <sup>9</sup>	9	RB		10 06/05
23	06/04/08 1:08	06030823.D	P0801550-006 DIL (0.30mL)	[REDACTED] (-1.1, 10.3)(30mL/5mL->500mL) <sup>10</sup>	10	RB	- Case File; needs more diln.	11 06/05
24	06/04/08 1:49	06030824.D	P0801550-001 DUP (25mL)	[REDACTED] (-0.8, 10.0) <sup>2</sup>	2	RB	- Passed	12 06/05
25	06/04/08 2:30	06030825.D	P0801550-001 DUP (25mL)	[REDACTED] (-0.8, 10.0) <sup>2</sup>	2	RB	- Case File; extra	13 06/05
26	06/04/08 3:15	06030828.D	Blank (100mL)	Test	4	RB		14 06/05
27	06/04/08 4:23	06030829.D	Blank (100mL)	Test	4	RB		15 06/05
28	06/04/08 5:03	06030830.D	S20-05210806 (25mL)	Test	B	RB		