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

Columbia Analytical Services INC.
An Employee - Owned Company

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 21, 2008. For your reference, these analyses have been assigned our service request number P0801507.

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 908 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 M Horiuchi

Kelly Horiuchi
Project Manager

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

Client: ENSR CAS Project No: P0801507
Project: Soil Gas Sampling / 04020-023-4311

CASE NARRATIVE

The samples were received intact under chain of custody on May 21, 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.

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

Project: Soil Gas Sampling 04020-023-4311

Folder: P0801507

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Order #
P0801507-001.01	SG77B-05	6.0 L-Summa Canister Source	-6.2	-3.0	3.5				SC00799	**8862**	OA00868	**8862**
P0801507-002.01	SG30B-05	6.0 L-Summa Canister Source	-6.2	-3.0	3.5				SC00705	**8862**	OA00664	**8862**
P0801507-003.01	SG29B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.5				SC00989	**8862**	OA00872	**8862**
P0801507-004.01	SG59B-05	6.0 L-Summa Canister Source	-8.6	-4.2	3.5				SC00987	**8862**	OA00035	**8862**
P0801507-005.01	SG31B-05	6.0 L-Summa Canister Source	-6.5	-3.2	3.5				SC00649	**8862**	OA00560	**8862**
P0801507-006.01	SG60B-05	6.0 L-Summa Canister Source	-7.6	-3.7	3.5				SC00811	**8862**	OA00040	**8862**
P0801507-007.01	SG58B-05	6.0 L-Summa Canister Source	-7.9	-3.9	3.7				SC00664	**8862**	OA00033	**8862**
P0801507-008.01	SG56B-05	6.0 L-Summa Canister Source	-7.8	-3.8	3.5				SC00943	**8863**	OA00816	**8863**
P0801507-009.01	SG56B-05D	6.0 L-Summa Canister Source	-7.7	-3.8	3.5				SC00978	**8863**	OA00816	**8863**
P0801507-010.01	SG55B-05	6.0 L-Summa Canister Source	-7.8	-3.8	3.8				SC00772	**8863**	OA00804	**8863**
P0801507-011.01	SG57B-05	6.0 L-Summa Canister Source	-6.8	-3.3	3.6				SC01021	**8863**	OA00561	**8862**
P0801507-012.01	SG13B-05	6.0 L-Summa Canister Source	-6.7	-3.3	3.6				SC00428	**8863**	OA00809	**8863**
P0801507-013.01	SG15B-05	6.0 L-Summa Canister Source	-7.2	-3.5	3.5				SC00817	**8863**	OA00806	**8863**
P0801507-014.01	SG14B-05	6.0 L-Summa Canister Source	-7.1	-3.5	3.6				SC00051	**8863**	OA00800	**8863**
P0801507-015.01	SG06B-05	6.0 L-Summa Canister Source	-5.9	-2.9	3.5				SC00189	**8863**	OA00807	**8863**

Detailed Sample Information

CAS Sample ID	Client Sample ID	Container Type	Pi1 (Hg)	Pi1 (psig)	Pf1	Pi2 (Hg)	Pi2 (psig)	Pf2	Cont ID	Order #	FC ID	Order #

Miscellaneous Items - received

SC00710
AVG00758
AVG00245
AVG00461
AVG00613
AVG00121
AVG00145
AVG00787
AVG00257
OA00284
AVG00649
OA00021
AVG00529
OA00565
AVG00679
AVG00415
AVG00319
AVG00520
AVG00743

Air - Chain of Custody Record & Analytical Service Request

Columbia Analytical Services INC.
An Employee - Owned Company

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

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 Project No. P0801507

Company Name & Address (Reporting Information)	ENSR 1220 Avenida Acaso Camarillo, CA 93012
Project Name	Soil Gas Sampling
Project Number	04020-023-4311
Project Manager	Mike Flack
P.O. # / Billing Information	
Phone	805-388-3775
Fax	805-388-3577
Email Address for Result Reporting	
Sampler (Print & Sign)	Cassandra Weir
CAS Contact	Kelly Horiuchi

Analysis Method and/or Analytes

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	TO-15	Helium			Comments e.g. Actual Preservative or specific instructions
SG77B-05	1-6.2	5/19/08	0901	Air	SC00749	OA00868	6L	X	X			
SG30B-05	2-6.2	5/19/08	1035	Air	SC00705	OA00664	6L	X	X			
SG29B-05	3-7.6	5/19/08	1143	Air	SC00789	OA00872	6L	X	X			
SG59B-05	4-8.6	5/19/08	1320	Air	SC00987	OA00035	6L	X	X			
SG31B-05	5-6.5	5/19/08	1443	Air	SC00649	OA00560	6L	X	X			
SG60B-05	6-7.6	5/20/08	0924	Air	SC00811	OA00040	6L	X	X			
SG58B-05	7-7.9	5/20/08	1106	Air	SC00664	OA00033	6L	X	X	BAR FLOW	#OA00021	
SG56B-05	8-7.8	5/20/08	1248	Air	SC00943	OA00816	6L	X	X			
SG56B-05D	9-7.7	5/20/08	1331	Air	SC00978	OA00816	6L	X	X			
SG55B-05	10-7.8	5/20/08	1439	Air	SC00772	OA00804	6L	X	X			
SG57B-05	11-6.8	5/20/08	1558	Air	SC00621	OA00561	6L	X	X			
SG13B-05	12-6.7	5/20/08	1700	Air	SC00428	OA00809	6L	X	X			
SG15B-05	13-7.2	5/20/08	1300	Air	SC00817	OA00806	6L	X	X			*16 canisters
SG14B-05	14-7.1	5/20/08	1350	Air	SC00051	OA00800	6L	X	X			shipped one clean
SG06B-05	15-5.9	5/20/08	1453	Air	SC00189	OA00807	6L	X	X			only do VOC analysis #SC00778

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: _____
EDD Units: _____

Project Requirements (MRLs, QAPP)

Relinquished by: (Signature)	Cassandra Weir	Date: 5/20/08	Time: 1640	Received by: (Signature)		Date: 5/21/08	Time: 0905
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:

Cooler / Blank

Temperature °C

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: ENSR Work order: P0801507

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 5/21/2008 Date opened: 5/21/2008 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.

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

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0801507-001.01	6.0 L Source Can					
P0801507-002.01	6.0 L Source Can					
P0801507-003.01	6.0 L Source Can					
P0801507-004.01	6.0 L Source Can					
P0801507-005.01	6.0 L Source Can					
P0801507-006.01	6.0 L Source Can					
P0801507-007.01	6.0 L Source Can					

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

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

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: ENSR Work order: P0801507

Project: Soil Gas Sampling / 04020-023-4311

Sample(s) received on: 5/21/2008 Date opened: 5/21/2008 by: MZAMORA

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P0801507-008.01	6.0 L Source Can					
P0801507-009.01	6.0 L Source Can					
P0801507-010.01	6.0 L Source Can					
P0801507-011.01	6.0 L Source Can					
P0801507-012.01	6.0 L Source Can					
P0801507-013.01	6.0 L Source Can					
P0801507-014.01	6.0 L Source Can					
P0801507-015.01	6.0 L Source Can					

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

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507

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: 5/19 - 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/23/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	**Result ppmV**	MRL ppmV	Data Qualifier
SG77B-05	P0801507-001	1.00	1.56	ND	39	
SG30B-05	P0801507-002	1.00	1.56	ND	39	
SG29B-05	P0801507-003	1.00	1.65	**120**	41	
SG59B-05	P0801507-004	1.00	1.73	ND	43	
SG31B-05	P0801507-005	1.00	1.58	ND	40	
SG60B-05	P0801507-006	1.00	1.65	**1,100**	41	
SG58B-05	P0801507-007	1.00	1.70	ND	43	
SG56B-05	P0801507-008	1.00	1.67	ND	42	
SG56B-05D	P0801507-009	1.00	1.67	ND	42	
SG55B-05	P0801507-010	1.00	1.70	ND	43	
SG57B-05	P0801507-011	1.00	1.61	ND	40	
SG13B-05	P0801507-012	1.00	1.61	ND	40	
SG15B-05	P0801507-013	1.00	1.63	ND	41	
SG14B-05	P0801507-014	1.00	1.63	ND	41	
SG06B-05	P0801507-015	1.00	1.54	ND	39	
Method Blank	P080523-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: RG Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG77B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00799

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	78	7.8	ND	16	1.6	
74-87-3	Chloromethane	ND	16	7.8	ND	7.6	3.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	78	7.8	ND	11	1.1	
75-01-4	Vinyl Chloride	ND	16	7.8	ND	6.1	3.1	
74-83-9	Bromomethane	ND	16	7.8	ND	4.0	2.0	
75-00-3	Chloroethane	ND	16	7.8	ND	5.9	3.0	
64-17-5	**Ethanol**	**17**	780	7.8	**8.9**	410	4.1	**J, B**
67-64-1	**Acetone**	**330**	780	11	**140**	330	4.8	**J, B**
75-69-4	Trichlorofluoromethane	ND	16	7.8	ND	2.8	1.4	
107-13-1	Acrylonitrile	ND	78	11	ND	36	5.0	
75-35-4	**1,1-Dichloroethene**	**14**	16	7.8	**3.6**	3.9	2.0	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	78	12	ND	26	3.8	
75-09-2	**Methylene Chloride**	**20**	78	7.8	**5.8**	22	2.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	16	7.8	ND	5.0	2.5	
76-13-1	Trichlorotrifluoroethane	ND	16	8.7	ND	2.0	1.1	
75-15-0	Carbon Disulfide	ND	78	19	ND	25	6.0	
156-60-5	trans-1,2-Dichloroethene	ND	16	7.8	ND	3.9	2.0	
75-34-3	1,1-Dichloroethane	ND	16	7.8	ND	3.9	1.9	
1634-04-4	Methyl tert-Butyl Ether	ND	16	7.8	ND	4.3	2.2	
108-05-4	Vinyl Acetate	ND	780	25	ND	220	7.1	
78-93-3	**2-Butanone (MEK)**	**51**	78	7.8	**17**	26	2.6	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	16	7.8	ND	3.9	2.0	
108-20-3	Diisopropyl Ether	ND	78	9.2	ND	19	2.2	
67-66-3	**Chloroform**	**45,000**	16	9.2	**9,300**	3.2	1.9	

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG77B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00799

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	78	8.0	ND	19	1.9	
107-06-2	1,2-Dichloroethane	ND	16	7.8	ND	3.9	1.9	
71-55-6	1,1,1-Trichloroethane	ND	16	7.8	ND	2.9	1.4	
71-43-2	**Benzene**	**47**	16	7.8	**15**	4.9	2.4	**B**
56-23-5	**Carbon Tetrachloride**	**22**	16	7.8	**3.6**	2.5	1.2	
994-05-8	tert-Amyl Methyl Ether	ND	78	7.8	ND	19	1.9	
78-87-5	1,2-Dichloropropane	ND	16	7.8	ND	3.4	1.7	
75-27-4	**Bromodichloromethane**	**47**	16	7.8	**7.0**	2.3	1.2	
79-01-6	**Trichloroethene**	**120**	16	7.8	**22**	2.9	1.5	
123-91-1	1,4-Dioxane	ND	78	9.5	ND	22	2.6	
80-62-6	Methyl Methacrylate	ND	78	12	ND	19	2.9	
142-82-5	**n-Heptane**	**39**	78	10	**9.5**	19	2.4	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	78	8.1	ND	17	1.8	
108-10-1	4-Methyl-2-pentanone	ND	78	8.7	ND	19	2.1	
10061-02-6	trans-1,3-Dichloropropene	ND	78	9.8	ND	17	2.2	
79-00-5	1,1,2-Trichloroethane	ND	16	7.8	ND	2.9	1.4	
108-88-3	**Toluene**	**430**	78	7.8	**110**	21	2.1	
591-78-6	2-Hexanone	ND	78	12	ND	19	2.9	
124-48-1	**Dibromochloromethane**	**32**	16	11	**3.8**	1.8	1.2	
106-93-4	1,2-Dibromoethane	ND	16	8.4	ND	2.0	1.1	
111-65-9	**n-Octane**	**1,000**	78	7.8	**210**	17	1.7	
127-18-4	**Tetrachloroethene**	**49**	16	7.8	**7.2**	2.3	1.2	
108-90-7	Chlorobenzene	ND	16	8.0	ND	3.4	1.7	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG77B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00799

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**85**	78	9.7	**20**	18	2.2	
179601-23-1	**m,p-Xylenes**	**360**	78	20	**84**	18	4.7	
75-25-2	**Bromoform**	**41**	78	12	**3.9**	7.5	1.1	**J**
100-42-5	Styrene	ND	78	12	ND	18	2.8	
95-47-6	**o-Xylene**	**110**	78	9.8	**25**	18	2.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND	16	10	ND	2.3	1.5	
98-82-8	Cumene	ND	78	8.7	ND	16	1.8	
103-65-1	**n-Propylbenzene**	**14**	78	8.1	**2.9**	16	1.7	**J**
622-96-8	**4-Ethyltoluene**	**21**	78	8.9	**4.2**	16	1.8	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**22**	78	9.4	**4.5**	16	1.9	**J**
98-83-9	alpha-Methylstyrene	ND	78	11	ND	16	2.4	
95-63-6	**1,2,4-Trimethylbenzene**	**42**	78	11	**8.6**	16	2.2	**J**
100-44-7	Benzyl Chloride	ND	16	13	ND	3.0	2.6	
541-73-1	1,3-Dichlorobenzene	ND	16	9.7	ND	2.6	1.6	
106-46-7	**1,4-Dichlorobenzene**	**17**	16	8.7	**2.8**	2.6	1.5	
135-98-8	sec-Butylbenzene	ND	78	9.0	ND	14	1.6	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	78	10	ND	14	1.8	
95-50-1	1,2-Dichlorobenzene	ND	16	10	ND	2.6	1.7	
96-12-8	1,2-Dibromo-3-chloropropane	ND	78	12	ND	8.1	1.2	
120-82-1	1,2,4-Trichlorobenzene	ND	16	12	ND	2.1	1.6	
91-20-3	Naphthalene	ND	31	12	ND	6.0	2.2	
87-68-3	Hexachlorobutadiene	ND	16	14	ND	1.5	1.3	
98-06-6	tert-Butylbenzene	ND	31	7.8	ND	5.7	1.4	
104-51-8	n-Butylbenzene	ND	31	7.8	ND	5.7	1.4	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG30B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00705

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	31	3.1	ND	6.3	0.63	
74-87-3	Chloromethane	ND	6.2	3.1	ND	3.0	1.5	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	31	3.1	ND	4.5	0.45	
75-01-4	Vinyl Chloride	ND	6.2	3.1	ND	2.4	1.2	
74-83-9	Bromomethane	ND	6.2	3.1	ND	1.6	0.80	
75-00-3	Chloroethane	ND	6.2	3.1	ND	2.4	1.2	
64-17-5	Ethanol	ND	310	3.1	ND	170	1.7	
67-64-1	**Acetone**	**49**	310	4.6	**21**	130	1.9	**J, B**
75-69-4	Trichlorofluoromethane	ND	6.2	3.1	ND	1.1	0.56	
107-13-1	Acrylonitrile	ND	31	4.4	ND	14	2.0	
75-35-4	1,1-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	31	4.6	ND	10	1.5	
75-09-2	Methylene Chloride	ND	31	3.1	ND	9.0	0.90	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	6.2	3.1	ND	2.0	1.0	
76-13-1	Trichlorotrifluoroethane	ND	6.2	3.5	ND	0.81	0.46	
75-15-0	Carbon Disulfide	ND	31	7.5	ND	10	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
75-34-3	1,1-Dichloroethane	ND	6.2	3.1	ND	1.5	0.77	
1634-04-4	Methyl tert-Butyl Ether	ND	6.2	3.1	ND	1.7	0.87	
108-05-4	Vinyl Acetate	ND	310	10	ND	89	2.8	
78-93-3	**2-Butanone (MEK)**	**14**	31	3.1	**4.8**	11	1.1	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
108-20-3	Diisopropyl Ether	ND	31	3.7	ND	7.5	0.88	
67-66-3	**Chloroform**	**21,000**	6.2	3.7	**4,200**	1.3	0.75	**B**

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B = Analyte was found in the method blank.

Verified By: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG30B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00705

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	31	3.2	ND	7.5	0.76	
107-06-2	1,2-Dichloroethane	ND	6.2	3.1	ND	1.5	0.77	
71-55-6	1,1,1-Trichloroethane	ND	6.2	3.1	ND	1.1	0.57	
71-43-2	**Benzene**	**15**	6.2	3.1	**4.6**	2.0	0.98	**B**
56-23-5	**Carbon Tetrachloride**	**700**	6.2	3.1	**110**	0.99	0.50	
994-05-8	tert-Amyl Methyl Ether	ND	31	3.1	ND	7.5	0.75	
78-87-5	1,2-Dichloropropane	ND	6.2	3.1	ND	1.4	0.68	
75-27-4	**Bromodichloromethane**	**5.3**	6.2	3.1	**0.79**	0.93	0.47	**J**
79-01-6	**Trichloroethene**	**6.9**	6.2	3.1	**1.3**	1.2	0.58	
123-91-1	1,4-Dioxane	ND	31	3.8	ND	8.7	1.1	
80-62-6	Methyl Methacrylate	ND	31	4.7	ND	7.6	1.1	
142-82-5	**n-Heptane**	**10**	31	4.0	**2.5**	7.6	0.97	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	31	3.2	ND	6.9	0.72	
108-10-1	4-Methyl-2-pentanone	ND	31	3.5	ND	7.6	0.85	
10061-02-6	trans-1,3-Dichloropropene	ND	31	3.9	ND	6.9	0.87	
79-00-5	1,1,2-Trichloroethane	ND	6.2	3.1	ND	1.1	0.57	
108-88-3	**Toluene**	**60**	31	3.1	**16**	8.3	0.83	
591-78-6	2-Hexanone	ND	31	4.7	ND	7.6	1.2	
124-48-1	Dibromochloromethane	ND	6.2	4.2	ND	0.73	0.50	
106-93-4	1,2-Dibromoethane	ND	6.2	3.4	ND	0.81	0.44	
111-65-9	**n-Octane**	**170**	31	3.1	**35**	6.7	0.67	
127-18-4	**Tetrachloroethene**	**16**	6.2	3.1	**2.4**	0.92	0.46	
108-90-7	Chlorobenzene	ND	6.2	3.2	ND	1.4	0.69	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG30B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00705

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**10**	31	3.9	**2.4**	7.2	0.89	**J**
179601-23-1	**m,p-Xylenes**	**45**	31	8.1	**10**	7.2	1.9	
75-25-2	Bromoform	ND	31	4.7	ND	3.0	0.46	
100-42-5	Styrene	ND	31	4.7	ND	7.3	1.1	
95-47-6	**o-Xylene**	**14**	31	3.9	**3.3**	7.2	0.91	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	4.0	ND	0.91	0.58	
98-82-8	Cumene	ND	31	3.5	ND	6.3	0.71	
103-65-1	n-Propylbenzene	ND	31	3.2	ND	6.3	0.66	
622-96-8	4-Ethyltoluene	ND	31	3.6	ND	6.3	0.72	
108-67-8	1,3,5-Trimethylbenzene	ND	31	3.7	ND	6.3	0.76	
98-83-9	alpha-Methylstyrene	ND	31	4.6	ND	6.5	0.94	
95-63-6	1,2,4-Trimethylbenzene	ND	31	4.3	ND	6.3	0.88	
100-44-7	Benzyl Chloride	ND	6.2	5.4	ND	1.2	1.0	
541-73-1	1,3-Dichlorobenzene	ND	6.2	3.9	ND	1.0	0.64	
106-46-7	**1,4-Dichlorobenzene**	**28**	6.2	3.5	**4.6**	1.0	0.58	
135-98-8	sec-Butylbenzene	ND	31	3.6	ND	5.7	0.66	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	31	4.1	ND	5.7	0.74	
95-50-1	1,2-Dichlorobenzene	ND	6.2	4.1	ND	1.0	0.69	
96-12-8	1,2-Dibromo-3-chloropropane	ND	31	4.7	ND	3.2	0.49	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	4.7	ND	0.84	0.64	
91-20-3	Naphthalene	ND	12	4.6	ND	2.4	0.88	
87-68-3	Hexachlorobutadiene	ND	6.2	5.6	ND	0.59	0.53	
98-06-6	tert-Butylbenzene	ND	12	3.1	ND	2.3	0.57	
104-51-8	n-Butylbenzene	ND	12	3.1	ND	2.3	0.57	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG29B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00989

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	83	8.3	ND	17	1.7	
74-87-3	Chloromethane	ND	17	8.3	ND	8.0	4.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	83	8.3	ND	12	1.2	
75-01-4	Vinyl Chloride	ND	17	8.3	ND	6.5	3.2	
74-83-9	Bromomethane	ND	17	8.3	ND	4.3	2.1	
75-00-3	Chloroethane	ND	17	8.3	ND	6.3	3.1	
64-17-5	Ethanol	ND	830	8.3	ND	440	4.4	
67-64-1	**Acetone**	**260**	830	12	**110**	350	5.1	**J, B**
75-69-4	**Trichlorofluoromethane**	**660**	17	8.3	**120**	2.9	1.5	
107-13-1	Acrylonitrile	ND	83	12	ND	38	5.3	
75-35-4	1,1-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	83	12	ND	27	4.0	
75-09-2	**Methylene Chloride**	**13**	83	8.3	**3.7**	24	2.4	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	17	8.3	ND	5.3	2.6	
76-13-1	Trichlorotrifluoroethane	ND	17	9.2	ND	2.2	1.2	
75-15-0	Carbon Disulfide	ND	83	20	ND	27	6.4	
156-60-5	trans-1,2-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
75-34-3	1,1-Dichloroethane	ND	17	8.3	ND	4.1	2.0	
1634-04-4	Methyl tert-Butyl Ether	ND	17	8.3	ND	4.6	2.3	
108-05-4	Vinyl Acetate	ND	830	26	ND	230	7.5	
78-93-3	**2-Butanone (MEK)**	**22**	83	8.3	**7.4**	28	2.8	**J**
156-59-2	cis-1,2-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
108-20-3	Diisopropyl Ether	ND	83	9.7	ND	20	2.3	
67-66-3	**Chloroform**	**63,000**	17	9.7	**13,000**	3.4	2.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG29B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00989

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	83	8.4	ND	20	2.0	
107-06-2	1,2-Dichloroethane	ND	17	8.3	ND	4.1	2.0	
71-55-6	1,1,1-Trichloroethane	ND	17	8.3	ND	3.0	1.5	
71-43-2	**Benzene**	**12**	17	8.3	**3.9**	5.2	2.6	**J**
56-23-5	**Carbon Tetrachloride**	**18,000**	17	8.3	**2,800**	2.6	1.3	
994-05-8	tert-Amyl Methyl Ether	ND	83	8.3	ND	20	2.0	
78-87-5	1,2-Dichloropropane	ND	17	8.3	ND	3.6	1.8	
75-27-4	Bromodichloromethane	ND	17	8.3	ND	2.5	1.2	
79-01-6	Trichloroethene	ND	17	8.3	ND	3.1	1.5	
123-91-1	1,4-Dioxane	ND	83	10	ND	23	2.8	
80-62-6	Methyl Methacrylate	ND	83	12	ND	20	3.0	
142-82-5	n-Heptane	ND	83	11	ND	20	2.6	
10061-01-5	cis-1,3-Dichloropropene	ND	83	8.6	ND	18	1.9	
108-10-1	4-Methyl-2-pentanone	ND	83	9.2	ND	20	2.3	
10061-02-6	trans-1,3-Dichloropropene	ND	83	10	ND	18	2.3	
79-00-5	1,1,2-Trichloroethane	ND	17	8.3	ND	3.0	1.5	
108-88-3	**Toluene**	**58**	83	8.3	**15**	22	2.2	**J**
591-78-6	2-Hexanone	ND	83	13	ND	20	3.1	
124-48-1	Dibromochloromethane	ND	17	11	ND	1.9	1.3	
106-93-4	1,2-Dibromoethane	ND	17	8.9	ND	2.1	1.2	
111-65-9	**n-Octane**	**140**	83	8.3	**30**	18	1.8	
127-18-4	**Tetrachloroethene**	**20**	17	8.3	**2.9**	2.4	1.2	
108-90-7	Chlorobenzene	ND	17	8.4	ND	3.6	1.8	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG29B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00989

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**16**	83	10	**3.6**	19	2.4	**J**
179601-23-1	**m,p-Xylenes**	**64**	83	21	**15**	19	4.9	**J**
75-25-2	Bromoform	ND	83	13	ND	8.0	1.2	
100-42-5	Styrene	ND	83	13	ND	19	2.9	
95-47-6	**o-Xylene**	**18**	83	10	**4.3**	19	2.4	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	17	11	ND	2.4	1.5	
98-82-8	Cumene	ND	83	9.2	ND	17	1.9	
103-65-1	n-Propylbenzene	ND	83	8.6	ND	17	1.7	
622-96-8	4-Ethyltoluene	ND	83	9.4	ND	17	1.9	
108-67-8	1,3,5-Trimethylbenzene	ND	83	9.9	ND	17	2.0	
98-83-9	alpha-Methylstyrene	ND	83	12	ND	17	2.5	
95-63-6	1,2,4-Trimethylbenzene	ND	83	11	ND	17	2.3	
100-44-7	Benzyl Chloride	ND	17	14	ND	3.2	2.7	
541-73-1	1,3-Dichlorobenzene	ND	17	10	ND	2.7	1.7	
106-46-7	1,4-Dichlorobenzene	ND	17	9.2	ND	2.7	1.5	
135-98-8	sec-Butylbenzene	ND	83	9.6	ND	15	1.7	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	83	11	ND	15	2.0	
95-50-1	1,2-Dichlorobenzene	ND	17	11	ND	2.7	1.8	
96-12-8	1,2-Dibromo-3-chloropropane	ND	83	13	ND	8.5	1.3	
120-82-1	1,2,4-Trichlorobenzene	ND	17	13	ND	2.2	1.7	
91-20-3	Naphthalene	ND	33	12	ND	6.3	2.3	
87-68-3	Hexachlorobutadiene	ND	17	15	ND	1.5	1.4	
98-06-6	tert-Butylbenzene	ND	33	8.3	ND	6.0	1.5	
104-51-8	n-Butylbenzene	ND	33	8.3	ND	6.0	1.5	

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG59B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00987

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	43	4.3	ND	8.8	0.88	
74-87-3	Chloromethane	ND	8.7	4.3	ND	4.2	2.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	43	4.3	ND	6.2	0.62	
75-01-4	Vinyl Chloride	ND	8.7	4.3	ND	3.4	1.7	
74-83-9	Bromomethane	ND	8.7	4.3	ND	2.2	1.1	
75-00-3	Chloroethane	ND	8.7	4.3	ND	3.3	1.6	
64-17-5	Ethanol	ND	430	4.3	ND	230	2.3	
67-64-1	**Acetone**	**35**	430	6.3	**15**	180	2.7	**J, B**
75-69-4	**Trichlorofluoromethane**	**230**	8.7	4.3	**42**	1.5	0.77	
107-13-1	Acrylonitrile	ND	43	6.1	ND	20	2.8	
75-35-4	1,1-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	43	6.4	ND	14	2.1	
75-09-2	**Methylene Chloride**	**4.3**	43	4.3	**1.2**	12	1.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	8.7	4.3	ND	2.8	1.4	
76-13-1	Trichlorotrifluoroethane	ND	8.7	4.8	ND	1.1	0.63	
75-15-0	Carbon Disulfide	ND	43	10	ND	14	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
75-34-3	1,1-Dichloroethane	ND	8.7	4.3	ND	2.1	1.1	
1634-04-4	Methyl tert-Butyl Ether	ND	8.7	4.3	ND	2.4	1.2	
108-05-4	Vinyl Acetate	ND	430	14	ND	120	3.9	
78-93-3	2-Butanone (MEK)	ND	43	4.3	ND	15	1.5	
156-59-2	cis-1,2-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
108-20-3	Diisopropyl Ether	ND	43	5.1	ND	10	1.2	
67-66-3	**Chloroform**	**17,000**	8.7	5.1	**3,500**	1.8	1.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG59B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00987

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	43	4.4	ND	10	1.1	
107-06-2	1,2-Dichloroethane	ND	8.7	4.3	ND	2.1	1.1	
71-55-6	1,1,1-Trichloroethane	ND	8.7	4.3	ND	1.6	0.79	
71-43-2	**Benzene**	**8.7**	8.7	4.3	**2.7**	2.7	1.4	**B**
56-23-5	**Carbon Tetrachloride**	**160**	8.7	4.3	**26**	1.4	0.69	
994-05-8	tert-Amyl Methyl Ether	ND	43	4.3	ND	10	1.0	
78-87-5	1,2-Dichloropropane	ND	8.7	4.3	ND	1.9	0.94	
75-27-4	Bromodichloromethane	ND	8.7	4.3	ND	1.3	0.65	
79-01-6	Trichloroethene	ND	8.7	4.3	ND	1.6	0.81	
123-91-1	1,4-Dioxane	ND	43	5.3	ND	12	1.5	
80-62-6	Methyl Methacrylate	ND	43	6.5	ND	11	1.6	
142-82-5	n-Heptane	ND	43	5.5	ND	11	1.4	
10061-01-5	cis-1,3-Dichloropropene	ND	43	4.5	ND	9.5	0.99	
108-10-1	4-Methyl-2-pentanone	ND	43	4.8	ND	11	1.2	
10061-02-6	trans-1,3-Dichloropropene	ND	43	5.4	ND	9.5	1.2	
79-00-5	1,1,2-Trichloroethane	ND	8.7	4.3	ND	1.6	0.79	
108-88-3	**Toluene**	**67**	43	4.3	**18**	11	1.1	
591-78-6	2-Hexanone	ND	43	6.6	ND	11	1.6	
124-48-1	Dibromochloromethane	ND	8.7	5.9	ND	1.0	0.69	
106-93-4	1,2-Dibromoethane	ND	8.7	4.7	ND	1.1	0.61	
111-65-9	**n-Octane**	**85**	43	4.3	**18**	9.3	0.93	
127-18-4	**Tetrachloroethene**	**8.0**	8.7	4.3	**1.2**	1.3	0.64	**J**
108-90-7	Chlorobenzene	ND	8.7	4.4	ND	1.9	0.96	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG59B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00987

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**10**	43	5.4	**2.3**	10	1.2	**J**
179601-23-1	**m,p-Xylenes**	**48**	43	11	**11**	10	2.6	
75-25-2	Bromoform	ND	43	6.6	ND	4.2	0.64	
100-42-5	Styrene	ND	43	6.6	ND	10	1.5	
95-47-6	**o-Xylene**	**15**	43	5.4	**3.5**	10	1.3	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.7	5.5	ND	1.3	0.81	
98-82-8	Cumene	ND	43	4.8	ND	8.8	0.99	
103-65-1	n-Propylbenzene	ND	43	4.5	ND	8.8	0.92	
622-96-8	4-Ethyltoluene	ND	43	4.9	ND	8.8	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	43	5.2	ND	8.8	1.1	
98-83-9	alpha-Methylstyrene	ND	43	6.3	ND	9.0	1.3	
95-63-6	1,2,4-Trimethylbenzene	ND	43	6.0	ND	8.8	1.2	
100-44-7	Benzyl Chloride	ND	8.7	7.4	ND	1.7	1.4	
541-73-1	1,3-Dichlorobenzene	ND	8.7	5.4	ND	1.4	0.89	
106-46-7	**1,4-Dichlorobenzene**	**23**	8.7	4.8	**3.9**	1.4	0.81	
135-98-8	sec-Butylbenzene	ND	43	5.0	ND	7.9	0.91	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	43	5.6	ND	7.9	1.0	
95-50-1	1,2-Dichlorobenzene	ND	8.7	5.7	ND	1.4	0.95	
96-12-8	1,2-Dibromo-3-chloropropane	ND	43	6.6	ND	4.5	0.68	
120-82-1	1,2,4-Trichlorobenzene	ND	8.7	6.6	ND	1.2	0.89	
91-20-3	Naphthalene	ND	17	6.4	ND	3.3	1.2	
87-68-3	Hexachlorobutadiene	ND	8.7	7.8	ND	0.81	0.73	
98-06-6	tert-Butylbenzene	ND	17	4.3	ND	3.2	0.79	
104-51-8	n-Butylbenzene	ND	17	4.3	ND	3.2	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: CA Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG31B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	7.9	0.79	**0.42**	1.6	0.16	**J**
74-87-3	Chloromethane	ND	1.6	0.79	ND	0.77	0.38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.9	0.79	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.6	0.79	ND	0.62	0.31	
74-83-9	Bromomethane	ND	1.6	0.79	ND	0.41	0.20	
75-00-3	Chloroethane	ND	1.6	0.79	ND	0.60	0.30	
64-17-5	**Ethanol**	**16**	79	0.79	**8.3**	42	0.42	**J**
67-64-1	**Acetone**	**25**	79	1.2	**11**	33	0.49	**J, B**
75-69-4	**Trichlorofluoromethane**	**36**	1.6	0.79	**6.4**	0.28	0.14	
107-13-1	Acrylonitrile	ND	7.9	1.1	ND	3.6	0.51	
75-35-4	**1,1-Dichloroethene**	**0.87**	1.6	0.79	**0.22**	0.40	0.20	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.9	1.2	ND	2.6	0.39	
75-09-2	**Methylene Chloride**	**2.8**	7.9	0.79	**0.81**	2.3	0.23	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.6	0.79	ND	0.50	0.25	
76-13-1	Trichlorotrifluoroethane	ND	1.6	0.88	ND	0.21	0.12	
75-15-0	Carbon Disulfide	ND	7.9	1.9	ND	2.5	0.61	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
75-34-3	**1,1-Dichloroethane**	**7.8**	1.6	0.79	**1.9**	0.39	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	0.79	ND	0.44	0.22	
108-05-4	Vinyl Acetate	ND	79	2.5	ND	22	0.72	
78-93-3	**2-Butanone (MEK)**	**7.5**	7.9	0.79	**2.5**	2.7	0.27	**J**
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
108-20-3	Diisopropyl Ether	ND	7.9	0.93	ND	1.9	0.22	
67-66-3	**Chloroform**	**4,000**	1.6	0.93	**810**	0.32	0.19	

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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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG31B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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
637-92-3	Ethyl tert-Butyl Ether	ND	7.9	0.81	ND	1.9	0.19	
107-06-2	**1,2-Dichloroethane**	**2.9**	1.6	0.79	**0.71**	0.39	0.20	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
71-43-2	**Benzene**	**4.8**	1.6	0.79	**1.5**	0.49	0.25	
56-23-5	**Carbon Tetrachloride**	**38**	1.6	0.79	**6.1**	0.25	0.13	
994-05-8	tert-Amyl Methyl Ether	ND	7.9	0.79	ND	1.9	0.19	
78-87-5	1,2-Dichloropropane	ND	1.6	0.79	ND	0.34	0.17	
75-27-4	**Bromodichloromethane**	**3.5**	1.6	0.79	**0.52**	0.24	0.12	
79-01-6	**Trichloroethene**	**2.6**	1.6	0.79	**0.48**	0.29	0.15	
123-91-1	1,4-Dioxane	ND	7.9	0.96	ND	2.2	0.27	
80-62-6	Methyl Methacrylate	ND	7.9	1.2	ND	1.9	0.29	
142-82-5	**n-Heptane**	**1.6**	7.9	1.0	**0.39**	1.9	0.25	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	7.9	0.82	ND	1.7	0.18	
108-10-1	**4-Methyl-2-pentanone**	**2.4**	7.9	0.88	**0.59**	1.9	0.22	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	7.9	1.0	ND	1.7	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
108-88-3	**Toluene**	**20**	7.9	0.79	**5.4**	2.1	0.21	
591-78-6	**2-Hexanone**	**1.7**	7.9	1.2	**0.41**	1.9	0.29	**J**
124-48-1	Dibromochloromethane	ND	1.6	1.1	ND	0.19	0.13	
106-93-4	1,2-Dibromoethane	ND	1.6	0.85	ND	0.21	0.11	
111-65-9	**n-Octane**	**28**	7.9	0.79	**6.0**	1.7	0.17	
127-18-4	**Tetrachloroethene**	**76**	1.6	0.79	**11**	0.23	0.12	
108-90-7	Chlorobenzene	ND	1.6	0.81	ND	0.34	0.18	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG31B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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**	**3.3**	7.9	0.98	**0.75**	1.8	0.23	**J**
179601-23-1	**m,p-Xylenes**	**16**	7.9	2.1	**3.7**	1.8	0.47	
75-25-2	Bromoform	ND	7.9	1.2	ND	0.76	0.12	
100-42-5	Styrene	ND	7.9	1.2	ND	1.9	0.28	
95-47-6	**o-Xylene**	**5.3**	7.9	1.0	**1.2**	1.8	0.23	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	1.0	ND	0.23	0.15	
98-82-8	Cumene	ND	7.9	0.88	ND	1.6	0.18	
103-65-1	n-Propylbenzene	ND	7.9	0.82	ND	1.6	0.17	
622-96-8	4-Ethyltoluene	ND	7.9	0.90	ND	1.6	0.18	
108-67-8	**1,3,5-Trimethylbenzene**	**0.95**	7.9	0.95	**0.19**	1.6	0.19	**J**
98-83-9	alpha-Methylstyrene	ND	7.9	1.2	ND	1.6	0.24	
95-63-6	**1,2,4-Trimethylbenzene**	**2.0**	7.9	1.1	**0.41**	1.6	0.22	**J**
100-44-7	Benzyl Chloride	ND	1.6	1.4	ND	0.31	0.26	
541-73-1	**1,3-Dichlorobenzene**	**8.5**	1.6	0.98	**1.4**	0.26	0.16	
106-46-7	**1,4-Dichlorobenzene**	**23**	1.6	0.88	**3.9**	0.26	0.15	
135-98-8	sec-Butylbenzene	ND	7.9	0.92	ND	1.4	0.17	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.9	1.0	ND	1.4	0.19	
95-50-1	1,2-Dichlorobenzene	ND	1.6	1.0	ND	0.26	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.9	1.2	ND	0.82	0.12	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	1.2	ND	0.21	0.16	
91-20-3	**Naphthalene**	**1.3**	3.2	1.2	**0.26**	0.60	0.22	**J**
87-68-3	**Hexachlorobutadiene**	**2.3**	1.6	1.4	**0.21**	0.15	0.13	
98-06-6	tert-Butylbenzene	ND	3.2	0.79	ND	0.58	0.14	
104-51-8	n-Butylbenzene	ND	3.2	0.79	ND	0.58	0.14	

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG60B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00811

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	170	17	ND	33	3.3	
74-87-3	Chloromethane	ND	33	17	ND	16	8.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	170	17	ND	24	2.4	
75-01-4	Vinyl Chloride	ND	33	17	ND	13	6.5	
74-83-9	Bromomethane	ND	33	17	ND	8.5	4.3	
75-00-3	Chloroethane	ND	33	17	ND	13	6.3	
64-17-5	Ethanol	ND	1,700	17	ND	880	8.8	
67-64-1	**Acetone**	**70**	1,700	24	**30**	690	10	**J, B**
75-69-4	**Trichlorofluoromethane**	**190**	33	17	**34**	5.9	2.9	
107-13-1	Acrylonitrile	ND	170	23	ND	76	11	
75-35-4	1,1-Dichloroethene	ND	33	17	ND	8.3	4.2	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	170	24	ND	54	8.1	
75-09-2	**Methylene Chloride**	**17**	170	17	**5.0**	48	4.8	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	17	ND	11	5.3	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	170	40	ND	53	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	17	ND	8.3	4.2	
75-34-3	1,1-Dichloroethane	ND	33	17	ND	8.2	4.1	
1634-04-4	Methyl tert-Butyl Ether	ND	33	17	ND	9.2	4.6	
108-05-4	Vinyl Acetate	ND	1,700	53	ND	470	15	
78-93-3	2-Butanone (MEK)	ND	170	17	ND	56	5.6	
156-59-2	cis-1,2-Dichloroethene	ND	33	17	ND	8.3	4.2	
108-20-3	Diisopropyl Ether	ND	170	19	ND	39	4.7	
67-66-3	**Chloroform**	**100,000**	33	19	**22,000**	6.8	4.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG60B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00811

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	170	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	17	ND	8.2	4.1	
71-55-6	1,1,1-Trichloroethane	ND	33	17	ND	6.1	3.0	
71-43-2	Benzene	ND	33	17	ND	10	5.2	
56-23-5	**Carbon Tetrachloride**	**52**	33	17	**8.3**	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	170	17	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	17	ND	7.1	3.6	
75-27-4	Bromodichloromethane	ND	33	17	ND	4.9	2.5	
79-01-6	Trichloroethene	ND	33	17	ND	6.1	3.1	
123-91-1	1,4-Dioxane	ND	170	20	ND	46	5.6	
80-62-6	Methyl Methacrylate	ND	170	25	ND	40	6.0	
142-82-5	n-Heptane	ND	170	21	ND	40	5.2	
10061-01-5	cis-1,3-Dichloropropene	ND	170	17	ND	36	3.8	
108-10-1	4-Methyl-2-pentanone	ND	170	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	170	21	ND	36	4.6	
79-00-5	1,1,2-Trichloroethane	ND	33	17	ND	6.1	3.0	
108-88-3	**Toluene**	**22**	170	17	**5.9**	44	4.4	**J**
591-78-6	2-Hexanone	ND	170	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.9	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.3	2.3	
111-65-9	n-Octane	ND	170	17	ND	35	3.5	
127-18-4	**Tetrachloroethene**	**140**	33	17	**20**	4.9	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.2	3.7	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG60B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00811

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	170	20	ND	38	4.7	
179601-23-1	m,p-Xylenes	ND	170	43	ND	38	9.9	
75-25-2	Bromoform	ND	170	25	ND	16	2.4	
100-42-5	Styrene	ND	170	25	ND	39	5.9	
95-47-6	o-Xylene	ND	170	21	ND	38	4.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.8	3.1	
98-82-8	Cumene	ND	170	18	ND	34	3.8	
103-65-1	n-Propylbenzene	ND	170	17	ND	34	3.5	
622-96-8	4-Ethyltoluene	ND	170	19	ND	34	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	170	20	ND	34	4.0	
98-83-9	alpha-Methylstyrene	ND	170	24	ND	34	5.0	
95-63-6	1,2,4-Trimethylbenzene	ND	170	23	ND	34	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.4	5.5	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.5	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.5	3.1	
135-98-8	sec-Butylbenzene	ND	170	19	ND	30	3.5	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	170	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.5	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	170	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.4	
91-20-3	Naphthalene	ND	66	24	ND	13	4.7	
87-68-3	Hexachlorobutadiene	ND	33	30	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	66	17	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	66	17	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.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	57	5.7	ND	11	1.1	
74-87-3	Chloromethane	ND	11	5.7	ND	5.5	2.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	57	5.7	ND	8.1	0.81	
75-01-4	Vinyl Chloride	ND	11	5.7	ND	4.4	2.2	
74-83-9	Bromomethane	ND	11	5.7	ND	2.9	1.5	
75-00-3	Chloroethane	ND	11	5.7	ND	4.3	2.1	
64-17-5	Ethanol	ND	570	5.7	ND	300	3.0	
67-64-1	**Acetone**	**61**	570	8.3	**26**	240	3.5	**J, B**
75-69-4	**Trichlorofluoromethane**	**55**	11	5.7	**9.8**	2.0	1.0	
107-13-1	Acrylonitrile	ND	57	7.9	ND	26	3.7	
75-35-4	1,1-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	57	8.4	ND	19	2.8	
75-09-2	**Methylene Chloride**	**5.8**	57	5.7	**1.7**	16	1.6	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	11	5.7	ND	3.6	1.8	
76-13-1	Trichlorotrifluoroethane	ND	11	6.3	ND	1.5	0.83	
75-15-0	Carbon Disulfide	ND	57	14	ND	18	4.4	
156-60-5	trans-1,2-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
75-34-3	**1,1-Dichloroethane**	**14**	11	5.7	**3.5**	2.8	1.4	
1634-04-4	Methyl tert-Butyl Ether	ND	11	5.7	ND	3.1	1.6	
108-05-4	Vinyl Acetate	ND	570	18	ND	160	5.2	
78-93-3	2-Butanone (MEK)	ND	57	5.7	ND	19	1.9	
156-59-2	cis-1,2-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
108-20-3	Diisopropyl Ether	ND	57	6.7	ND	14	1.6	
67-66-3	**Chloroform**	**51,000**	11	6.7	**10,000**	2.3	1.4	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	57	5.8	ND	14	1.4	
107-06-2	**1,2-Dichloroethane**	**6.7**	11	5.7	**1.7**	2.8	1.4	**J**
71-55-6	1,1,1-Trichloroethane	ND	11	5.7	ND	2.1	1.0	
71-43-2	**Benzene**	**7.6**	11	5.7	**2.4**	3.5	1.8	**J**
56-23-5	**Carbon Tetrachloride**	**75**	11	5.7	**12**	1.8	0.90	
994-05-8	tert-Amyl Methyl Ether	ND	57	5.7	ND	14	1.4	
78-87-5	1,2-Dichloropropane	ND	11	5.7	ND	2.5	1.2	
75-27-4	Bromodichloromethane	ND	11	5.7	ND	1.7	0.85	
79-01-6	**Trichloroethene**	**7.8**	11	5.7	**1.5**	2.1	1.1	**J**
123-91-1	1,4-Dioxane	ND	57	6.9	ND	16	1.9	
80-62-6	Methyl Methacrylate	ND	57	8.5	ND	14	2.1	
142-82-5	n-Heptane	ND	57	7.3	ND	14	1.8	
10061-01-5	cis-1,3-Dichloropropene	ND	57	5.9	ND	12	1.3	
108-10-1	4-Methyl-2-pentanone	ND	57	6.3	ND	14	1.5	
10061-02-6	trans-1,3-Dichloropropene	ND	57	7.1	ND	12	1.6	
79-00-5	1,1,2-Trichloroethane	ND	11	5.7	ND	2.1	1.0	
108-88-3	**Toluene**	**23**	57	5.7	**6.1**	15	1.5	**J**
591-78-6	2-Hexanone	ND	57	8.6	ND	14	2.1	
124-48-1	Dibromochloromethane	ND	11	7.7	ND	1.3	0.90	
106-93-4	1,2-Dibromoethane	ND	11	6.1	ND	1.5	0.80	
111-65-9	n-Octane	ND	57	5.7	ND	12	1.2	
127-18-4	**Tetrachloroethene**	**57**	11	5.7	**8.4**	1.7	0.84	
108-90-7	Chlorobenzene	ND	11	5.8	ND	2.5	1.3	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	57	7.0	ND	13	1.6	
179601-23-1	**m,p-Xylenes**	**29**	57	15	**6.6**	13	3.4	**J**
75-25-2	Bromoform	ND	57	8.6	ND	5.5	0.83	
100-42-5	Styrene	ND	57	8.6	ND	13	2.0	
95-47-6	**o-Xylene**	**10**	57	7.1	**2.3**	13	1.6	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	11	7.3	ND	1.7	1.1	
98-82-8	Cumene	ND	57	6.3	ND	12	1.3	
103-65-1	n-Propylbenzene	ND	57	5.9	ND	12	1.2	
622-96-8	4-Ethyltoluene	ND	57	6.5	ND	12	1.3	
108-67-8	1,3,5-Trimethylbenzene	ND	57	6.8	ND	12	1.4	
98-83-9	alpha-Methylstyrene	ND	57	8.3	ND	12	1.7	
95-63-6	1,2,4-Trimethylbenzene	ND	57	7.8	ND	12	1.6	
100-44-7	Benzyl Chloride	ND	11	9.7	ND	2.2	1.9	
541-73-1	1,3-Dichlorobenzene	ND	11	7.0	ND	1.9	1.2	
106-46-7	1,4-Dichlorobenzene	ND	11	6.3	ND	1.9	1.1	
135-98-8	sec-Butylbenzene	ND	57	6.6	ND	10	1.2	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	57	7.4	ND	10	1.3	
95-50-1	1,2-Dichlorobenzene	ND	11	7.5	ND	1.9	1.2	
96-12-8	1,2-Dibromo-3-chloropropane	ND	57	8.6	ND	5.9	0.89	
120-82-1	1,2,4-Trichlorobenzene	ND	11	8.6	ND	1.5	1.2	
91-20-3	Naphthalene	ND	23	8.4	ND	4.3	1.6	
87-68-3	Hexachlorobutadiene	ND	11	10	ND	1.1	0.96	
98-06-6	tert-Butylbenzene	ND	23	5.7	ND	4.1	1.0	
104-51-8	n-Butylbenzene	ND	23	5.7	ND	4.1	1.0	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	17	1.7	ND	3.4	0.34	
74-87-3	Chloromethane	ND	3.3	1.7	ND	1.6	0.81	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	17	1.7	ND	2.4	0.24	
75-01-4	Vinyl Chloride	ND	3.3	1.7	ND	1.3	0.65	
74-83-9	Bromomethane	ND	3.3	1.7	ND	0.86	0.43	
75-00-3	Chloroethane	ND	3.3	1.7	ND	1.3	0.63	
64-17-5	Ethanol	ND	170	1.7	ND	89	0.89	
67-64-1	**Acetone**	**26**	170	2.4	**11**	70	1.0	**J, B**
75-69-4	**Trichlorofluoromethane**	**56**	3.3	1.7	**9.9**	0.59	0.30	
107-13-1	Acrylonitrile	ND	17	2.3	ND	7.7	1.1	
75-35-4	1,1-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	17	2.5	ND	5.5	0.82	
75-09-2	**Methylene Chloride**	**3.4**	17	1.7	**0.99**	4.8	0.48	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.3	1.7	ND	1.1	0.53	
76-13-1	Trichlorotrifluoroethane	ND	3.3	1.9	ND	0.44	0.24	
75-15-0	Carbon Disulfide	ND	17	4.0	ND	5.4	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
75-34-3	**1,1-Dichloroethane**	**7.2**	3.3	1.7	**1.8**	0.83	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	3.3	1.7	ND	0.93	0.46	
108-05-4	Vinyl Acetate	ND	170	5.3	ND	47	1.5	
78-93-3	**2-Butanone (MEK)**	**7.4**	17	1.7	**2.5**	5.7	0.57	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
108-20-3	Diisopropyl Ether	ND	17	2.0	ND	4.0	0.47	
67-66-3	**Chloroform**	**7,500**	3.3	2.0	**1,500**	0.68	0.40	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	17	1.7	ND	4.0	0.41	
107-06-2	1,2-Dichloroethane	ND	3.3	1.7	ND	0.83	0.41	
71-55-6	1,1,1-Trichloroethane	ND	3.3	1.7	ND	0.61	0.31	
71-43-2	**Benzene**	**6.3**	3.3	1.7	**2.0**	1.0	0.52	**B**
56-23-5	**Carbon Tetrachloride**	**210**	3.3	1.7	**33**	0.53	0.27	
994-05-8	tert-Amyl Methyl Ether	ND	17	1.7	ND	4.0	0.40	
78-87-5	1,2-Dichloropropane	ND	3.3	1.7	ND	0.72	0.36	
75-27-4	Bromodichloromethane	ND	3.3	1.7	ND	0.50	0.25	
79-01-6	Trichloroethene	ND	3.3	1.7	ND	0.62	0.31	
123-91-1	1,4-Dioxane	ND	17	2.0	ND	4.6	0.57	
80-62-6	Methyl Methacrylate	ND	17	2.5	ND	4.1	0.61	
142-82-5	n-Heptane	ND	17	2.1	ND	4.1	0.52	
10061-01-5	cis-1,3-Dichloropropene	ND	17	1.7	ND	3.7	0.38	
108-10-1	4-Methyl-2-pentanone	ND	17	1.9	ND	4.1	0.46	
10061-02-6	trans-1,3-Dichloropropene	ND	17	2.1	ND	3.7	0.46	
79-00-5	1,1,2-Trichloroethane	ND	3.3	1.7	ND	0.61	0.31	
108-88-3	**Toluene**	**32**	17	1.7	**8.6**	4.4	0.44	
591-78-6	2-Hexanone	ND	17	2.5	ND	4.1	0.62	
124-48-1	Dibromochloromethane	ND	3.3	2.3	ND	0.39	0.27	
106-93-4	1,2-Dibromoethane	ND	3.3	1.8	ND	0.43	0.23	
111-65-9	**n-Octane**	**26**	17	1.7	**5.5**	3.6	0.36	
127-18-4	**Tetrachloroethene**	**31**	3.3	1.7	**4.5**	0.49	0.25	
108-90-7	Chlorobenzene	ND	3.3	1.7	ND	0.73	0.37	

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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**8.9**	17	2.1	**2.0**	3.8	0.48	**J**
179601-23-1	**m,p-Xylenes**	**47**	17	4.3	**11**	3.8	1.0	
75-25-2	Bromoform	ND	17	2.5	ND	1.6	0.25	
100-42-5	Styrene	ND	17	2.5	ND	3.9	0.60	
95-47-6	**o-Xylene**	**17**	17	2.1	**3.8**	3.8	0.48	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	2.1	ND	0.49	0.31	
98-82-8	Cumene	ND	17	1.9	ND	3.4	0.38	
103-65-1	n-Propylbenzene	ND	17	1.7	ND	3.4	0.35	
622-96-8	4-Ethyltoluene	ND	17	1.9	ND	3.4	0.39	
108-67-8	**1,3,5-Trimethylbenzene**	**3.6**	17	2.0	**0.74**	3.4	0.41	**J**
98-83-9	alpha-Methylstyrene	ND	17	2.4	ND	3.5	0.50	
95-63-6	**1,2,4-Trimethylbenzene**	**5.2**	17	2.3	**1.1**	3.4	0.47	**J**
100-44-7	Benzyl Chloride	ND	3.3	2.9	ND	0.65	0.56	
541-73-1	**1,3-Dichlorobenzene**	**4.3**	3.3	2.1	**0.72**	0.56	0.34	
106-46-7	1,4-Dichlorobenzene	ND	3.3	1.9	ND	0.56	0.31	
135-98-8	sec-Butylbenzene	ND	17	1.9	ND	3.0	0.35	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	17	2.2	ND	3.0	0.40	
95-50-1	1,2-Dichlorobenzene	ND	3.3	2.2	ND	0.56	0.37	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	2.5	ND	1.7	0.26	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	2.5	ND	0.45	0.34	
91-20-3	Naphthalene	ND	6.7	2.5	ND	1.3	0.47	
87-68-3	Hexachlorobutadiene	ND	3.3	3.0	ND	0.31	0.28	
98-06-6	tert-Butylbenzene	ND	6.7	1.7	ND	1.2	0.30	
104-51-8	n-Butylbenzene	ND	6.7	1.7	ND	1.2	0.30	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00978

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.15 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.2**	5.6	0.56	**0.44**	1.1	0.11	**J**
74-87-3	Chloromethane	ND	1.1	0.56	ND	0.54	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.6	0.56	ND	0.80	0.080	
75-01-4	Vinyl Chloride	ND	1.1	0.56	ND	0.44	0.22	
74-83-9	Bromomethane	ND	1.1	0.56	ND	0.29	0.14	
75-00-3	Chloroethane	ND	1.1	0.56	ND	0.42	0.21	
64-17-5	**Ethanol**	**1.4**	56	0.56	**0.72**	30	0.30	**J**
67-64-1	**Acetone**	**13**	56	0.81	**5.6**	23	0.34	**J, B**
75-69-4	**Trichlorofluoromethane**	**57**	1.1	0.56	**10**	0.20	0.099	
107-13-1	Acrylonitrile	ND	5.6	0.78	ND	2.6	0.36	
75-35-4	**1,1-Dichloroethene**	**0.87**	1.1	0.56	**0.22**	0.28	0.14	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	5.6	0.82	ND	1.8	0.27	
75-09-2	**Methylene Chloride**	**3.0**	5.6	0.56	**0.86**	1.6	0.16	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.56	ND	0.36	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.62	ND	0.15	0.081	
75-15-0	**Carbon Disulfide**	**3.5**	5.6	1.3	**1.1**	1.8	0.43	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
75-34-3	**1,1-Dichloroethane**	**7.5**	1.1	0.56	**1.9**	0.28	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.56	ND	0.31	0.15	
108-05-4	Vinyl Acetate	ND	56	1.8	ND	16	0.51	
78-93-3	**2-Butanone (MEK)**	**4.5**	5.6	0.56	**1.5**	1.9	0.19	**J**
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
108-20-3	Diisopropyl Ether	ND	5.6	0.66	ND	1.3	0.16	
67-66-3	**Chloroform**	**7,700**	1.1	0.66	**1,600**	0.23	0.13	

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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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00978

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.15 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.6	0.57	ND	1.3	0.14	
107-06-2	**1,2-Dichloroethane**	**1.0**	1.1	0.56	**0.25**	0.28	0.14	**J**
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
71-43-2	**Benzene**	**4.8**	1.1	0.56	**1.5**	0.35	0.17	
56-23-5	**Carbon Tetrachloride**	**220**	1.1	0.56	**35**	0.18	0.089	
994-05-8	tert-Amyl Methyl Ether	ND	5.6	0.56	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.56	ND	0.24	0.12	
75-27-4	**Bromodichloromethane**	**2.1**	1.1	0.56	**0.32**	0.17	0.083	
79-01-6	**Trichloroethene**	**0.98**	1.1	0.56	**0.18**	0.21	0.10	**J**
123-91-1	1,4-Dioxane	ND	5.6	0.68	ND	1.5	0.19	
80-62-6	Methyl Methacrylate	ND	5.6	0.84	ND	1.4	0.20	
142-82-5	**n-Heptane**	**1.1**	5.6	0.71	**0.27**	1.4	0.17	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.58	ND	1.2	0.13	
108-10-1	**4-Methyl-2-pentanone**	**1.9**	5.6	0.62	**0.46**	1.4	0.15	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.70	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
108-88-3	**Toluene**	**35**	5.6	0.56	**9.2**	1.5	0.15	
591-78-6	**2-Hexanone**	**1.0**	5.6	0.85	**0.24**	1.4	0.21	**J**
124-48-1	Dibromochloromethane	ND	1.1	0.76	ND	0.13	0.089	
106-93-4	1,2-Dibromoethane	ND	1.1	0.60	ND	0.14	0.078	
111-65-9	**n-Octane**	**27**	5.6	0.56	**5.9**	1.2	0.12	
127-18-4	**Tetrachloroethene**	**30**	1.1	0.56	**4.4**	0.16	0.082	
108-90-7	**Chlorobenzene**	**0.81**	1.1	0.57	**0.18**	0.24	0.12	**J**

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

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00978

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.15 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**11**	5.6	0.69	**2.4**	1.3	0.16	
179601-23-1	**m,p-Xylenes**	**56**	5.6	1.4	**13**	1.3	0.33	
75-25-2	Bromoform	ND	5.6	0.85	ND	0.54	0.082	
100-42-5	Styrene	ND	5.6	0.85	ND	1.3	0.20	
95-47-6	**o-Xylene**	**20**	5.6	0.70	**4.6**	1.3	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.71	ND	0.16	0.10	
98-82-8	Cumene	ND	5.6	0.62	ND	1.1	0.13	
103-65-1	**n-Propylbenzene**	**1.2**	5.6	0.58	**0.25**	1.1	0.12	**J**
622-96-8	**4-Ethyltoluene**	**2.4**	5.6	0.63	**0.49**	1.1	0.13	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**4.7**	5.6	0.67	**0.96**	1.1	0.14	**J**
98-83-9	alpha-Methylstyrene	ND	5.6	0.81	ND	1.2	0.17	
95-63-6	**1,2,4-Trimethylbenzene**	**8.0**	5.6	0.77	**1.6**	1.1	0.16	
100-44-7	Benzyl Chloride	ND	1.1	0.96	ND	0.22	0.19	
541-73-1	**1,3-Dichlorobenzene**	**4.3**	1.1	0.69	**0.72**	0.19	0.11	
106-46-7	**1,4-Dichlorobenzene**	**0.97**	1.1	0.62	**0.16**	0.19	0.10	**J**
135-98-8	sec-Butylbenzene	ND	5.6	0.65	ND	1.0	0.12	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.6	0.72	ND	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.73	ND	0.19	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.85	ND	0.58	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.85	ND	0.15	0.11	
91-20-3	**Naphthalene**	**1.2**	2.2	0.82	**0.22**	0.42	0.16	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	1.0	ND	0.10	0.094	
98-06-6	tert-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	
104-51-8	n-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG55B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00772

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0050 Liter(s)

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

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	34	3.4	ND	6.9	0.69	
74-87-3	Chloromethane	ND	6.8	3.4	ND	3.3	1.6	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	34	3.4	ND	4.9	0.49	
75-01-4	Vinyl Chloride	ND	6.8	3.4	ND	2.7	1.3	
74-83-9	Bromomethane	ND	6.8	3.4	ND	1.8	0.88	
75-00-3	Chloroethane	ND	6.8	3.4	ND	2.6	1.3	
64-17-5	Ethanol	ND	340	3.4	ND	180	1.8	
67-64-1	**Acetone**	**53**	340	5.0	**22**	140	2.1	**J, B**
75-69-4	Trichlorofluoromethane	ND	6.8	3.4	ND	1.2	0.61	
107-13-1	Acrylonitrile	ND	34	4.8	ND	16	2.2	
75-35-4	1,1-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	34	5.0	ND	11	1.7	
75-09-2	**Methylene Chloride**	**4.6**	34	3.4	**1.3**	9.8	0.98	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	6.8	3.4	ND	2.2	1.1	
76-13-1	Trichlorotrifluoroethane	ND	6.8	3.8	ND	0.89	0.50	
75-15-0	Carbon Disulfide	ND	34	8.2	ND	11	2.6	
156-60-5	trans-1,2-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
75-34-3	1,1-Dichloroethane	ND	6.8	3.4	ND	1.7	0.84	
1634-04-4	Methyl tert-Butyl Ether	ND	6.8	3.4	ND	1.9	0.94	
108-05-4	Vinyl Acetate	ND	340	11	ND	97	3.1	
78-93-3	**2-Butanone (MEK)**	**8.8**	34	3.4	**3.0**	12	1.2	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
108-20-3	Diisopropyl Ether	ND	34	4.0	ND	8.1	0.96	
67-66-3	**Chloroform**	**14,000**	6.8	4.0	**2,900**	1.4	0.82	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG55B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00772

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0050 Liter(s)

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

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	34	3.5	ND	8.1	0.83	
107-06-2	1,2-Dichloroethane	ND	6.8	3.4	ND	1.7	0.84	
71-55-6	1,1,1-Trichloroethane	ND	6.8	3.4	ND	1.2	0.62	
71-43-2	**Benzene**	**9.9**	6.8	3.4	**3.1**	2.1	1.1	**B**
56-23-5	**Carbon Tetrachloride**	**530**	6.8	3.4	**85**	1.1	0.54	
994-05-8	tert-Amyl Methyl Ether	ND	34	3.4	ND	8.1	0.81	
78-87-5	1,2-Dichloropropane	ND	6.8	3.4	ND	1.5	0.74	
75-27-4	Bromodichloromethane	ND	6.8	3.4	ND	1.0	0.51	
79-01-6	Trichloroethene	ND	6.8	3.4	ND	1.3	0.63	
123-91-1	1,4-Dioxane	ND	34	4.1	ND	9.4	1.2	
80-62-6	Methyl Methacrylate	ND	34	5.1	ND	8.3	1.2	
142-82-5	n-Heptane	ND	34	4.4	ND	8.3	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	34	3.5	ND	7.5	0.78	
108-10-1	4-Methyl-2-pentanone	ND	34	3.8	ND	8.3	0.93	
10061-02-6	trans-1,3-Dichloropropene	ND	34	4.3	ND	7.5	0.94	
79-00-5	1,1,2-Trichloroethane	ND	6.8	3.4	ND	1.2	0.62	
108-88-3	**Toluene**	**41**	34	3.4	**11**	9.0	0.90	
591-78-6	2-Hexanone	ND	34	5.2	ND	8.3	1.3	
124-48-1	Dibromochloromethane	ND	6.8	4.6	ND	0.80	0.54	
106-93-4	1,2-Dibromoethane	ND	6.8	3.7	ND	0.89	0.48	
111-65-9	**n-Octane**	**23**	34	3.4	**4.8**	7.3	0.73	**J**
127-18-4	**Tetrachloroethene**	**130**	6.8	3.4	**19**	1.0	0.50	
108-90-7	Chlorobenzene	ND	6.8	3.5	ND	1.5	0.75	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG55B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00772

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0050 Liter(s)

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

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**8.0**	34	4.2	**1.8**	7.8	0.97	**J**
179601-23-1	**m,p-Xylenes**	**37**	34	8.8	**8.5**	7.8	2.0	
75-25-2	Bromoform	ND	34	5.2	ND	3.3	0.50	
100-42-5	Styrene	ND	34	5.2	ND	8.0	1.2	
95-47-6	**o-Xylene**	**11**	34	4.3	**2.6**	7.8	0.99	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	4.4	ND	0.99	0.63	
98-82-8	Cumene	ND	34	3.8	ND	6.9	0.77	
103-65-1	n-Propylbenzene	ND	34	3.5	ND	6.9	0.72	
622-96-8	4-Ethyltoluene	ND	34	3.9	ND	6.9	0.79	
108-67-8	1,3,5-Trimethylbenzene	ND	34	4.1	ND	6.9	0.83	
98-83-9	alpha-Methylstyrene	ND	34	5.0	ND	7.0	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	34	4.7	ND	6.9	0.95	
100-44-7	Benzyl Chloride	ND	6.8	5.8	ND	1.3	1.1	
541-73-1	1,3-Dichlorobenzene	ND	6.8	4.2	ND	1.1	0.70	
106-46-7	1,4-Dichlorobenzene	ND	6.8	3.8	ND	1.1	0.63	
135-98-8	sec-Butylbenzene	ND	34	3.9	ND	6.2	0.72	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	34	4.4	ND	6.2	0.81	
95-50-1	1,2-Dichlorobenzene	ND	6.8	4.5	ND	1.1	0.75	
96-12-8	1,2-Dibromo-3-chloropropane	ND	34	5.2	ND	3.5	0.53	
120-82-1	1,2,4-Trichlorobenzene	ND	6.8	5.2	ND	0.92	0.70	
91-20-3	Naphthalene	ND	14	5.0	ND	2.6	0.96	
87-68-3	Hexachlorobutadiene	ND	6.8	6.1	ND	0.64	0.57	
98-06-6	tert-Butylbenzene	ND	14	3.4	ND	2.5	0.62	
104-51-8	n-Butylbenzene	ND	14	3.4	ND	2.5	0.62	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	40	4.0	ND	8.1	0.81	
74-87-3	Chloromethane	ND	8.1	4.0	ND	3.9	1.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	40	4.0	ND	5.8	0.58	
75-01-4	Vinyl Chloride	ND	8.1	4.0	ND	3.2	1.6	
74-83-9	Bromomethane	ND	8.1	4.0	ND	2.1	1.0	
75-00-3	**Chloroethane**	**54**	8.1	4.0	**21**	3.1	1.5	
64-17-5	Ethanol	ND	400	4.0	ND	210	2.1	
67-64-1	**Acetone**	**29**	400	5.9	**12**	170	2.5	**J, B**
75-69-4	Trichlorofluoromethane	ND	8.1	4.0	ND	1.4	0.72	
107-13-1	Acrylonitrile	ND	40	5.6	ND	19	2.6	
75-35-4	1,1-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	40	6.0	ND	13	2.0	
75-09-2	**Methylene Chloride**	**36**	40	4.0	**10**	12	1.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	8.1	4.0	ND	2.6	1.3	
76-13-1	Trichlorotrifluoroethane	ND	8.1	4.5	ND	1.1	0.59	
75-15-0	Carbon Disulfide	ND	40	9.7	ND	13	3.1	
156-60-5	trans-1,2-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
75-34-3	**1,1-Dichloroethane**	**110**	8.1	4.0	**26**	2.0	0.99	
1634-04-4	Methyl tert-Butyl Ether	ND	8.1	4.0	ND	2.2	1.1	
108-05-4	Vinyl Acetate	ND	400	13	ND	110	3.7	
78-93-3	2-Butanone (MEK)	ND	40	4.0	ND	14	1.4	
156-59-2	cis-1,2-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
108-20-3	Diisopropyl Ether	ND	40	4.7	ND	9.6	1.1	
67-66-3	**Chloroform**	**29,000**	8.1	4.7	**5,900**	1.6	0.97	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	40	4.1	ND	9.6	0.98	
107-06-2	**1,2-Dichloroethane**	**31**	8.1	4.0	**7.6**	2.0	0.99	
71-55-6	1,1,1-Trichloroethane	ND	8.1	4.0	ND	1.5	0.74	
71-43-2	**Benzene**	**9.4**	8.1	4.0	**2.9**	2.5	1.3	**B**
56-23-5	Carbon Tetrachloride	ND	8.1	4.0	ND	1.3	0.64	
994-05-8	tert-Amyl Methyl Ether	ND	40	4.0	ND	9.6	0.96	
78-87-5	1,2-Dichloropropane	ND	8.1	4.0	ND	1.7	0.87	
75-27-4	Bromodichloromethane	ND	8.1	4.0	ND	1.2	0.60	
79-01-6	Trichloroethene	ND	8.1	4.0	ND	1.5	0.75	
123-91-1	1,4-Dioxane	ND	40	4.9	ND	11	1.4	
80-62-6	Methyl Methacrylate	ND	40	6.0	ND	9.8	1.5	
142-82-5	n-Heptane	ND	40	5.2	ND	9.8	1.3	
10061-01-5	cis-1,3-Dichloropropene	ND	40	4.2	ND	8.9	0.92	
108-10-1	4-Methyl-2-pentanone	ND	40	4.5	ND	9.8	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	40	5.1	ND	8.9	1.1	
79-00-5	1,1,2-Trichloroethane	ND	8.1	4.0	ND	1.5	0.74	
108-88-3	**Toluene**	**45**	40	4.0	**12**	11	1.1	
591-78-6	2-Hexanone	ND	40	6.1	ND	9.8	1.5	
124-48-1	Dibromochloromethane	ND	8.1	5.5	ND	0.95	0.64	
106-93-4	1,2-Dibromoethane	ND	8.1	4.3	ND	1.0	0.57	
111-65-9	**n-Octane**	**28**	40	4.0	**5.9**	8.6	0.86	**J**
127-18-4	**Tetrachloroethene**	**84**	8.1	4.0	**12**	1.2	0.59	
108-90-7	Chlorobenzene	ND	8.1	4.1	ND	1.7	0.89	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**9.2**	40	5.0	**2.1**	9.3	1.1	**J**
179601-23-1	**m,p-Xylenes**	**46**	40	10	**11**	9.3	2.4	
75-25-2	Bromoform	ND	40	6.1	ND	3.9	0.59	
100-42-5	Styrene	ND	40	6.1	ND	9.5	1.4	
95-47-6	**o-Xylene**	**16**	40	5.1	**3.7**	9.3	1.2	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.1	5.2	ND	1.2	0.75	
98-82-8	Cumene	ND	40	4.5	ND	8.2	0.92	
103-65-1	n-Propylbenzene	ND	40	4.2	ND	8.2	0.85	
622-96-8	4-Ethyltoluene	ND	40	4.6	ND	8.2	0.93	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.8	ND	8.2	0.98	
98-83-9	alpha-Methylstyrene	ND	40	5.9	ND	8.3	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	40	5.6	ND	8.2	1.1	
100-44-7	Benzyl Chloride	ND	8.1	6.9	ND	1.6	1.3	
541-73-1	1,3-Dichlorobenzene	ND	8.1	5.0	ND	1.3	0.83	
106-46-7	**1,4-Dichlorobenzene**	**17**	8.1	4.5	**2.8**	1.3	0.75	
135-98-8	sec-Butylbenzene	ND	40	4.7	ND	7.3	0.85	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	40	5.2	ND	7.3	0.95	
95-50-1	1,2-Dichlorobenzene	ND	8.1	5.3	ND	1.3	0.88	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	6.1	ND	4.2	0.63	
120-82-1	**1,2,4-Trichlorobenzene**	**8.9**	8.1	6.1	**1.2**	1.1	0.82	
91-20-3	Naphthalene	ND	16	6.0	ND	3.1	1.1	
87-68-3	Hexachlorobutadiene	ND	8.1	7.2	ND	0.75	0.68	
98-06-6	tert-Butylbenzene	ND	16	4.0	ND	2.9	0.73	
104-51-8	n-Butylbenzene	ND	16	4.0	ND	2.9	0.73	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG13B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00428

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.4**	3.2	0.32	**0.49**	0.65	0.065	**J**
74-87-3	**Chloromethane**	**0.34**	0.64	0.32	**0.17**	0.31	0.16	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.2	0.32	ND	0.46	0.046	
75-01-4	Vinyl Chloride	ND	0.64	0.32	ND	0.25	0.13	
74-83-9	Bromomethane	ND	0.64	0.32	ND	0.17	0.083	
75-00-3	Chloroethane	ND	0.64	0.32	ND	0.24	0.12	
64-17-5	**Ethanol**	**3.7**	32	0.32	**1.9**	17	0.17	**J, B**
67-64-1	**Acetone**	**47**	32	0.47	**20**	14	0.20	**B**
75-69-4	**Trichlorofluoromethane**	**7.0**	0.64	0.32	**1.2**	0.11	0.057	
107-13-1	Acrylonitrile	ND	3.2	0.45	ND	1.5	0.21	
75-35-4	1,1-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**3.2**	3.2	0.48	**1.1**	1.1	0.16	**J**
75-09-2	**Methylene Chloride**	**0.57**	3.2	0.32	**0.16**	0.93	0.093	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.64	0.32	ND	0.21	0.10	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.64	0.36	**0.068**	0.084	0.047	**J**
75-15-0	**Carbon Disulfide**	**3.0**	3.2	0.77	**0.98**	1.0	0.25	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
75-34-3	1,1-Dichloroethane	ND	0.64	0.32	ND	0.16	0.080	
1634-04-4	Methyl tert-Butyl Ether	ND	0.64	0.32	ND	0.18	0.089	
108-05-4	**Vinyl Acetate**	**4.5**	32	1.0	**1.3**	9.1	0.29	**J, B**
78-93-3	**2-Butanone (MEK)**	**19**	3.2	0.32	**6.5**	1.1	0.11	**B**
156-59-2	cis-1,2-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
108-20-3	Diisopropyl Ether	ND	3.2	0.38	ND	0.77	0.091	
67-66-3	**Chloroform**	**1,700**	0.64	0.38	**350**	0.13	0.078	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG13B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00428

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	3.2	0.33	ND	0.77	0.079	
107-06-2	1,2-Dichloroethane	ND	0.64	0.32	ND	0.16	0.080	
71-55-6	1,1,1-Trichloroethane	ND	0.64	0.32	ND	0.12	0.059	
71-43-2	**Benzene**	**2.7**	0.64	0.32	**0.84**	0.20	0.10	**B**
56-23-5	**Carbon Tetrachloride**	**16**	0.64	0.32	**2.5**	0.10	0.051	
994-05-8	tert-Amyl Methyl Ether	ND	3.2	0.32	ND	0.77	0.077	
78-87-5	1,2-Dichloropropane	ND	0.64	0.32	ND	0.14	0.070	
75-27-4	**Bromodichloromethane**	**1.3**	0.64	0.32	**0.19**	0.096	0.048	
79-01-6	**Trichloroethene**	**4.5**	0.64	0.32	**0.84**	0.12	0.060	
123-91-1	1,4-Dioxane	ND	3.2	0.39	ND	0.89	0.11	
80-62-6	Methyl Methacrylate	ND	3.2	0.48	ND	0.79	0.12	
142-82-5	**n-Heptane**	**1.0**	3.2	0.41	**0.26**	0.79	0.10	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.33	ND	0.71	0.074	
108-10-1	**4-Methyl-2-pentanone**	**20**	3.2	0.36	**5.0**	0.79	0.088	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.41	ND	0.71	0.089	
79-00-5	1,1,2-Trichloroethane	ND	0.64	0.32	ND	0.12	0.059	
108-88-3	**Toluene**	**13**	3.2	0.32	**3.5**	0.85	0.085	
591-78-6	**2-Hexanone**	**3.0**	3.2	0.49	**0.74**	0.79	0.12	**J**
124-48-1	**Dibromochloromethane**	**0.66**	0.64	0.44	**0.077**	0.076	0.051	
106-93-4	1,2-Dibromoethane	ND	0.64	0.35	ND	0.084	0.045	
111-65-9	**n-Octane**	**1.9**	3.2	0.32	**0.41**	0.69	0.069	**J**
127-18-4	**Tetrachloroethene**	**18**	0.64	0.32	**2.6**	0.095	0.048	
108-90-7	Chlorobenzene	ND	0.64	0.33	ND	0.14	0.071	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG13B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00428

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.50**	3.2	0.40	**0.11**	0.74	0.092	**J**
179601-23-1	**m,p-Xylenes**	**2.4**	3.2	0.84	**0.56**	0.74	0.19	**J**
75-25-2	**Bromoform**	**0.99**	3.2	0.49	**0.095**	0.31	0.047	**J**
100-42-5	Styrene	ND	3.2	0.49	ND	0.76	0.12	
95-47-6	**o-Xylene**	**1.3**	3.2	0.41	**0.29**	0.74	0.093	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.64	0.41	ND	0.094	0.060	
98-82-8	Cumene	ND	3.2	0.36	ND	0.66	0.073	
103-65-1	n-Propylbenzene	ND	3.2	0.33	ND	0.66	0.068	
622-96-8	**4-Ethyltoluene**	**0.53**	3.2	0.37	**0.11**	0.66	0.075	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	3.2	0.39	**0.13**	0.66	0.079	**J**
98-83-9	alpha-Methylstyrene	ND	3.2	0.47	ND	0.67	0.097	
95-63-6	**1,2,4-Trimethylbenzene**	**2.5**	3.2	0.44	**0.51**	0.66	0.090	**J**
100-44-7	Benzyl Chloride	ND	0.64	0.55	ND	0.12	0.11	
541-73-1	1,3-Dichlorobenzene	ND	0.64	0.40	ND	0.11	0.066	
106-46-7	**1,4-Dichlorobenzene**	**19**	0.64	0.36	**3.2**	0.11	0.060	
135-98-8	sec-Butylbenzene	ND	3.2	0.37	ND	0.59	0.068	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**1.8**	3.2	0.42	**0.33**	0.59	0.076	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.64	0.43	ND	0.11	0.071	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	0.49	ND	0.33	0.051	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.49	ND	0.087	0.066	
91-20-3	**Naphthalene**	**1.4**	1.3	0.48	**0.27**	0.25	0.091	
87-68-3	**Hexachlorobutadiene**	**2.3**	0.64	0.58	**0.22**	0.060	0.054	
98-06-6	tert-Butylbenzene	ND	1.3	0.32	ND	0.23	0.059	
104-51-8	**n-Butylbenzene**	**0.53**	1.3	0.32	**0.097**	0.23	0.059	**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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG15B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00817

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.9**	1.6	0.16	**0.58**	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	0.084	0.042	
75-00-3	Chloroethane	ND	0.33	0.16	ND	0.12	0.062	
64-17-5	**Ethanol**	**11**	16	0.16	**5.8**	8.7	0.087	**J, B**
67-64-1	**Acetone**	**78**	16	0.24	**33**	6.9	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**3.3**	0.33	0.16	**0.59**	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.75	0.11	
75-35-4	1,1-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.4**	1.6	0.24	**0.46**	0.54	0.080	**J**
75-09-2	**Methylene Chloride**	**0.42**	1.6	0.16	**0.12**	0.47	0.047	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.33	0.18	**0.068**	0.043	0.024	
75-15-0	**Carbon Disulfide**	**7.6**	1.6	0.39	**2.4**	0.52	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
75-34-3	1,1-Dichloroethane	ND	0.33	0.16	ND	0.081	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.16	ND	0.090	0.045	
108-05-4	**Vinyl Acetate**	**6.9**	16	0.52	**2.0**	4.6	0.15	**J, B**
78-93-3	**2-Butanone (MEK)**	**22**	1.6	0.16	**7.6**	0.55	0.055	**B**
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.39	0.046	
67-66-3	**Chloroform**	**1,200**	0.33	0.19	**240**	0.067	0.039	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG15B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00817

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
71-43-2	**Benzene**	**5.5**	0.33	0.16	**1.7**	0.10	0.051	**B**
56-23-5	**Carbon Tetrachloride**	**7.2**	0.33	0.16	**1.2**	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.39	0.039	
78-87-5	1,2-Dichloropropane	ND	0.33	0.16	ND	0.071	0.035	
75-27-4	Bromodichloromethane	ND	0.33	0.16	ND	0.049	0.024	
79-01-6	**Trichloroethene**	**1.1**	0.33	0.16	**0.20**	0.061	0.030	
123-91-1	1,4-Dioxane	ND	1.6	0.20	ND	0.45	0.055	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.060	
142-82-5	**n-Heptane**	**1.5**	1.6	0.21	**0.37**	0.40	0.051	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**17**	1.6	0.18	**4.2**	0.40	0.045	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.21	ND	0.36	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
108-88-3	**Toluene**	**7.8**	1.6	0.16	**2.1**	0.43	0.043	
591-78-6	**2-Hexanone**	**3.9**	1.6	0.25	**0.96**	0.40	0.061	
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.042	0.023	
111-65-9	**n-Octane**	**2.7**	1.6	0.16	**0.57**	0.35	0.035	
127-18-4	**Tetrachloroethene**	**7.2**	0.33	0.16	**1.1**	0.048	0.024	
108-90-7	**Chlorobenzene**	**1.8**	0.33	0.17	**0.39**	0.071	0.036	

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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG15B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00817

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.62**	1.6	0.20	**0.14**	0.38	0.047	**J**
179601-23-1	**m,p-Xylenes**	**2.8**	1.6	0.42	**0.65**	0.38	0.098	
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	**Styrene**	**0.49**	1.6	0.25	**0.11**	0.38	0.058	**J**
95-47-6	**o-Xylene**	**1.5**	1.6	0.21	**0.34**	0.38	0.047	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.047	0.030	
98-82-8	Cumene	ND	1.6	0.18	ND	0.33	0.037	
103-65-1	**n-Propylbenzene**	**0.50**	1.6	0.17	**0.10**	0.33	0.034	**J**
622-96-8	**4-Ethyltoluene**	**0.78**	1.6	0.19	**0.16**	0.33	0.038	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.93**	1.6	0.20	**0.19**	0.33	0.040	**J**
98-83-9	**alpha-Methylstyrene**	**0.39**	1.6	0.24	**0.082**	0.34	0.049	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**3.5**	1.6	0.22	**0.72**	0.33	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.054	
541-73-1	**1,3-Dichlorobenzene**	**0.77**	0.33	0.20	**0.13**	0.054	0.034	
106-46-7	**1,4-Dichlorobenzene**	**14**	0.33	0.18	**2.3**	0.054	0.030	
135-98-8	sec-Butylbenzene	ND	1.6	0.19	ND	0.30	0.034	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**12**	1.6	0.21	**2.2**	0.30	0.039	
95-50-1	1,2-Dichlorobenzene	ND	0.33	0.22	ND	0.054	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	ND	0.33	0.25	ND	0.044	0.033	
91-20-3	**Naphthalene**	**1.7**	0.65	0.24	**0.33**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**11**	0.33	0.29	**1.0**	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**1.1**	0.65	0.16	**0.21**	0.12	0.030	**M**

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
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M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG14B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00051

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.3**	0.82	0.082	**0.46**	0.16	0.016	
74-87-3	**Chloromethane**	**0.24**	0.16	0.082	**0.11**	0.079	0.039	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	0.082	ND	0.12	0.012	
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**	**0.31**	0.16	0.082	**0.12**	0.062	0.031	
64-17-5	**Ethanol**	**4.4**	8.2	0.082	**2.3**	4.3	0.043	**J, B**
67-64-1	**Acetone**	**48**	8.2	0.12	**20**	3.4	0.050	**B**
75-69-4	**Trichlorofluoromethane**	**2.9**	0.16	0.082	**0.51**	0.029	0.015	
107-13-1	**Acrylonitrile**	**0.26**	0.82	0.11	**0.12**	0.38	0.053	**J**
75-35-4	**1,1-Dichloroethene**	**0.10**	0.16	0.082	**0.026**	0.041	0.021	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.54**	0.82	0.12	**0.18**	0.27	0.040	**J**
75-09-2	**Methylene Chloride**	**0.97**	0.82	0.082	**0.28**	0.23	0.023	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.082	ND	0.052	0.026	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.16	0.091	**0.069**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**2.7**	0.82	0.20	**0.86**	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**	**2.3**	8.2	0.26	**0.64**	2.3	0.074	**J, B**
78-93-3	**2-Butanone (MEK)**	**13**	0.82	0.082	**4.5**	0.28	0.028	**B**
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**	**1,000**	0.16	0.096	**200**	0.033	0.020	

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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG14B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00051

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	**Benzene**	**4.4**	0.16	0.082	**1.4**	0.051	0.026	**B**
56-23-5	**Carbon Tetrachloride**	**15**	0.16	0.082	**2.3**	0.026	0.013	
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**	**5.8**	0.16	0.082	**0.86**	0.024	0.012	
79-01-6	**Trichloroethene**	**1.0**	0.16	0.082	**0.19**	0.030	0.015	
123-91-1	1,4-Dioxane	ND	0.82	0.099	ND	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.82	0.12	ND	0.20	0.030	
142-82-5	**n-Heptane**	**2.6**	0.82	0.10	**0.64**	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.085	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**18**	0.82	0.091	**4.4**	0.20	0.022	
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	**Toluene**	**31**	0.82	0.082	**8.3**	0.22	0.022	
591-78-6	**2-Hexanone**	**2.3**	0.82	0.12	**0.57**	0.20	0.030	
124-48-1	**Dibromochloromethane**	**0.34**	0.16	0.11	**0.039**	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.088	ND	0.021	0.011	
111-65-9	**n-Octane**	**93**	0.82	0.082	**20**	0.17	0.017	
127-18-4	**Tetrachloroethene**	**16**	0.16	0.082	**2.4**	0.024	0.012	
108-90-7	**Chlorobenzene**	**0.66**	0.16	0.083	**0.14**	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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG14B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00051

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**6.3**	0.82	0.10	**1.5**	0.19	0.023	
179601-23-1	**m,p-Xylenes**	**28**	0.82	0.21	**6.4**	0.19	0.049	
75-25-2	**Bromoform**	**0.43**	0.82	0.12	**0.041**	0.079	0.012	**J**
100-42-5	**Styrene**	**0.47**	0.82	0.12	**0.11**	0.19	0.029	**J**
95-47-6	**o-Xylene**	**8.8**	0.82	0.10	**2.0**	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.024	0.015	
98-82-8	**Cumene**	**0.56**	0.82	0.091	**0.11**	0.17	0.019	**J**
103-65-1	**n-Propylbenzene**	**1.1**	0.82	0.085	**0.22**	0.17	0.017	
622-96-8	**4-Ethyltoluene**	**1.8**	0.82	0.093	**0.37**	0.17	0.019	
108-67-8	**1,3,5-Trimethylbenzene**	**2.4**	0.82	0.098	**0.49**	0.17	0.020	
98-83-9	**alpha-Methylstyrene**	**0.52**	0.82	0.12	**0.11**	0.17	0.025	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**5.7**	0.82	0.11	**1.2**	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**	**13**	0.16	0.091	**2.2**	0.027	0.015	
135-98-8	**sec-Butylbenzene**	**0.15**	0.82	0.095	**0.026**	0.15	0.017	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**2.9**	0.82	0.11	**0.53**	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	ND	0.16	0.12	ND	0.022	0.017	
91-20-3	**Naphthalene**	**1.3**	0.33	0.12	**0.25**	0.062	0.023	
87-68-3	**Hexachlorobutadiene**	**10**	0.16	0.15	**0.97**	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.082	ND	0.059	0.015	
104-51-8	**n-Butylbenzene**	**0.71**	0.33	0.082	**0.13**	0.059	0.015	**M**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG06B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00189

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
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/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.77	0.077	**0.41**	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)	ND	0.77	0.077	ND	0.11	0.011	
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**	**2.3**	7.7	0.077	**1.2**	4.1	0.041	**J, B**
67-64-1	**Acetone**	**21**	7.7	0.11	**8.8**	3.2	0.047	**B**
75-69-4	**Trichlorofluoromethane**	**1.3**	0.15	0.077	**0.23**	0.027	0.014	
107-13-1	Acrylonitrile	ND	0.77	0.11	ND	0.35	0.050	
75-35-4	1,1-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.45**	0.77	0.11	**0.15**	0.25	0.038	**J**
75-09-2	**Methylene Chloride**	**0.46**	0.77	0.077	**0.13**	0.22	0.022	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.15	0.086	**0.071**	0.020	0.011	
75-15-0	**Carbon Disulfide**	**13**	0.77	0.18	**4.2**	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**	**0.25**	0.15	0.077	**0.062**	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**	**2.9**	7.7	0.25	**0.82**	2.2	0.070	**J, B**
78-93-3	**2-Butanone (MEK)**	**5.8**	0.77	0.077	**2.0**	0.26	0.026	**B**
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**	**34**	0.15	0.091	**6.9**	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG06B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00189

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
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/m³	MRL µg/m³	MDL µg/m³	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	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	**Benzene**	**1.9**	0.15	0.077	**0.61**	0.048	0.024	**B**
56-23-5	**Carbon Tetrachloride**	**0.60**	0.15	0.077	**0.095**	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**	**0.088**	0.15	0.077	**0.019**	0.033	0.017	**J**
75-27-4	**Bromodichloromethane**	**0.18**	0.15	0.077	**0.027**	0.023	0.011	
79-01-6	**Trichloroethene**	**1.3**	0.15	0.077	**0.24**	0.029	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.094	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	**n-Heptane**	**0.47**	0.77	0.099	**0.11**	0.19	0.024	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**9.2**	0.77	0.086	**2.2**	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	**Toluene**	**6.7**	0.77	0.077	**1.8**	0.20	0.020	
591-78-6	**2-Hexanone**	**0.52**	0.77	0.12	**0.13**	0.19	0.029	**J**
124-48-1	**Dibromochloromethane**	**0.12**	0.15	0.10	**0.014**	0.018	0.012	**J**
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	**n-Octane**	**1.5**	0.77	0.077	**0.31**	0.16	0.016	
127-18-4	**Tetrachloroethene**	**1.1**	0.15	0.077	**0.17**	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.
B = Analyte was found in the method blank.

Verified By: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG06B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00189

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
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/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.41**	0.77	0.095	**0.095**	0.18	0.022	**J**
179601-23-1	**m,p-Xylenes**	**1.9**	0.77	0.20	**0.45**	0.18	0.046	
75-25-2	**Bromoform**	**0.27**	0.77	0.12	**0.026**	0.075	0.011	**J**
100-42-5	**Styrene**	**0.31**	0.77	0.12	**0.073**	0.18	0.028	**J**
95-47-6	**o-Xylene**	**0.89**	0.77	0.097	**0.21**	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**	**0.088**	0.77	0.086	**0.018**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.28**	0.77	0.080	**0.058**	0.16	0.016	**J**
622-96-8	**4-Ethyltoluene**	**0.46**	0.77	0.088	**0.093**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.51**	0.77	0.092	**0.10**	0.16	0.019	**J**
98-83-9	**alpha-Methylstyrene**	**0.39**	0.77	0.11	**0.080**	0.16	0.023	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	0.77	0.11	**0.44**	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**	**8.7**	0.15	0.086	**1.4**	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)**	**4.4**	0.77	0.10	**0.80**	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**	**4.2**	0.31	0.11	**0.79**	0.059	0.022	
87-68-3	Hexachlorobutadiene	ND	0.15	0.14	ND	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	**n-Butylbenzene**	**0.68**	0.31	0.077	**0.12**	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080527-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.082**	5.0	0.050	**0.044**	2.7	0.027	**J**
67-64-1	**Acetone**	**1.0**	5.0	0.073	**0.42**	2.1	0.031	**J**
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**	**0.076**	0.50	0.050	**0.022**	0.14	0.014	**J**
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**	**0.26**	5.0	0.16	**0.074**	1.4	0.045	**J**
78-93-3	**2-Butanone (MEK)**	**0.072**	0.50	0.050	**0.024**	0.17	0.017	**J**
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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080527-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.059**	0.10	0.050	**0.018**	0.031	0.016	**J**
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.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080527-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	**Acetone**	**0.35**	5.0	0.073	**0.15**	2.1	0.031	**J**
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**	**0.064**	0.50	0.050	**0.018**	0.14	0.014	**J**
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**	**0.090**	0.10	0.059	**0.018**	0.020	0.012	**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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.062**	5.0	0.050	**0.033**	2.7	0.027	**J**
67-64-1	**Acetone**	**0.55**	5.0	0.073	**0.23**	2.1	0.031	**J**
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**	**0.055**	0.50	0.050	**0.016**	0.14	0.014	**J**
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**	**0.087**	0.10	0.059	**0.018**	0.020	0.012	**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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Client: **ENSR**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**
CAS Project ID: P0801507

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Date(s) Collected: 5/19 - 5/20/08
Date(s) Received: 5/21/08
Date(s) Analyzed: 5/27 - 5/29/08

Client Sample ID	CAS Sample ID	1,2-Dichloroethane-d4 % Recovered	1,2-Dichloroethane-d4 Acceptance Limits	Toluene-d8 % Recovered	Toluene-d8 Acceptance Limits	Bromofluorobenzene % Recovered	Bromofluorobenzene Acceptance Limits	Data Qualifier
Method Blank	P080527-MB	**97**	70-130	**98**	70-130	**103**	70-130	
Method Blank	P080528-MB	**99**	70-130	**97**	70-130	**104**	70-130	
Method Blank	P080529-MB	**98**	70-130	**97**	70-130	**105**	70-130	
Lab Control Sample	P080527-LCS	**98**	70-130	**98**	70-130	**102**	70-130	
Lab Control Sample	P080528-LCS	**100**	70-130	**97**	70-130	**104**	70-130	
Lab Control Sample	P080529-LCS	**100**	70-130	**95**	70-130	**106**	70-130	
SG77B-05	P0801507-001	**96**	70-130	**98**	70-130	**103**	70-130	
SG30B-05	P0801507-002	**98**	70-130	**99**	70-130	**103**	70-130	
SG29B-05	P0801507-003	**99**	70-130	**96**	70-130	**102**	70-130	
SG59B-05	P0801507-004	**98**	70-130	**98**	70-130	**103**	70-130	
SG31B-05	P0801507-005	**98**	70-130	**96**	70-130	**103**	70-130	
SG60B-05	P0801507-006	**99**	70-130	**96**	70-130	**103**	70-130	
SG58B-05	P0801507-007	**99**	70-130	**96**	70-130	**105**	70-130	
SG56B-05	P0801507-008	**98**	70-130	**98**	70-130	**102**	70-130	
SG56B-05	P0801507-008DUP	**99**	70-130	**97**	70-130	**101**	70-130	
SG56B-05D	P0801507-009	**100**	70-130	**97**	70-130	**104**	70-130	
SG55B-05	P0801507-010	**100**	70-130	**98**	70-130	**102**	70-130	
SG57B-05	P0801507-011	**100**	70-130	**97**	70-130	**103**	70-130	
SG13B-05	P0801507-012	**100**	70-130	**96**	70-130	**102**	70-130	
SG15B-05	P0801507-013	**110**	70-130	**75**	70-130	**127**	70-130	
SG14B-05	P0801507-014	**100**	70-130	**97**	70-130	**103**	70-130	
SG06B-05	P0801507-015	**98**	70-130	**97**	70-130	**104**	70-130	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080527-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
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	**23.7**	**93**	69-117	
74-87-3	Chloromethane	24.5	**24.1**	**98**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**25.8**	**99**	58-133	
75-01-4	Vinyl Chloride	24.8	**23.8**	**96**	61-127	
74-83-9	Bromomethane	25.0	**25.2**	**101**	67-124	
75-00-3	Chloroethane	25.0	**23.7**	**95**	69-123	
64-17-5	Ethanol	23.8	**24.8**	**104**	56-137	
67-64-1	Acetone	26.8	**25.5**	**95**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**25.5**	**97**	71-120	
107-13-1	Acrylonitrile	25.5	**26.4**	**104**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**27.9**	**100**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**26.5**	**103**	35-141	
75-09-2	Methylene Chloride	27.8	**26.9**	**97**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**28.6**	**107**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.4**	**99**	63-129	
75-15-0	Carbon Disulfide	25.0	**23.1**	**92**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**26.6**	**100**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**27.2**	**101**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.0**	**101**	72-119	
108-05-4	Vinyl Acetate	25.3	**28.5**	**113**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**27.4**	**101**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.1**	**100**	74-117	
108-20-3	Diisopropyl Ether	26.3	**26.8**	**102**	70-131	
67-66-3	Chloroform	29.8	**30.9**	**104**	72-113	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080527-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
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	**26.6**	**102**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**26.3**	**100**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**26.7**	**100**	78-114	
71-43-2	Benzene	27.0	**24.8**	**92**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**26.5**	**102**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**26.9**	**103**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**26.6**	**100**	78-117	
75-27-4	Bromodichloromethane	27.8	**28.6**	**103**	77-120	
79-01-6	Trichloroethene	27.3	**27.6**	**101**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.1**	**106**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.2**	**109**	79-128	
142-82-5	n-Heptane	26.8	**27.2**	**101**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**26.5**	**106**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.2**	**95**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**29.4**	**105**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.0**	**103**	80-117	
108-88-3	Toluene	26.5	**25.2**	**95**	76-116	
591-78-6	2-Hexanone	26.3	**23.3**	**89**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.2**	**101**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**25.8**	**98**	79-122	
111-65-9	n-Octane	26.0	**25.6**	**98**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.6**	**98**	77-118	
108-90-7	Chlorobenzene	26.5	**25.6**	**97**	78-117	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080527-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
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	**25.7**	**98**	79-116	
179601-23-1	m,p-Xylenes	62.5	**60.3**	**96**	80-117	
75-25-2	Bromoform	31.3	**34.4**	**110**	77-128	
100-42-5	Styrene	26.3	**26.9**	**102**	80-124	
95-47-6	o-Xylene	29.8	**28.7**	**96**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.1**	**98**	79-120	
98-82-8	Cumene	27.0	**26.6**	**99**	81-119	
103-65-1	n-Propylbenzene	26.3	**26.0**	**99**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.4**	**100**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.5**	**98**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.2**	**103**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.5**	**98**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.5**	**107**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.1**	**98**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**25.8**	**98**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.4**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.1**	**101**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.3**	**98**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**27.4**	**106**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**28.0**	**108**	75-138	
91-20-3	Naphthalene	26.3	**27.1**	**103**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**26.6**	**101**	72-128	
98-06-6	tert-Butylbenzene	26.3	**25.8**	**98**	70-130	
104-51-8	n-Butylbenzene	26.8	**26.3**	**98**	70-130	

Verified By: CA Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
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	**24.3**	**95**	69-117	
74-87-3	Chloromethane	24.5	**25.5**	**104**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**26.5**	**102**	58-133	
75-01-4	Vinyl Chloride	24.8	**24.8**	**100**	61-127	
74-83-9	Bromomethane	25.0	**25.6**	**102**	67-124	
75-00-3	Chloroethane	25.0	**24.3**	**97**	69-123	
64-17-5	Ethanol	23.8	**26.8**	**113**	56-137	
67-64-1	Acetone	26.8	**26.7**	**100**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**26.6**	**101**	71-120	
107-13-1	Acrylonitrile	25.5	**27.6**	**108**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**28.8**	**104**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**27.3**	**106**	35-141	
75-09-2	Methylene Chloride	27.8	**27.4**	**99**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**30.5**	**114**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**28.4**	**102**	63-129	
75-15-0	Carbon Disulfide	25.0	**24.4**	**98**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**27.6**	**104**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**28.2**	**105**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.6**	**103**	72-119	
108-05-4	Vinyl Acetate	25.3	**30.7**	**121**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**28.1**	**104**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.8**	**103**	74-117	
108-20-3	Diisopropyl Ether	26.3	**27.3**	**104**	70-131	
67-66-3	Chloroform	29.8	**32.3**	**108**	72-113	

Verified By: CA Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
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	**27.5**	**106**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**27.4**	**104**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**27.5**	**103**	78-114	
71-43-2	Benzene	27.0	**25.4**	**94**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**27.6**	**106**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**27.5**	**106**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**27.4**	**103**	78-117	
75-27-4	Bromodichloromethane	27.8	**29.8**	**107**	77-120	
79-01-6	Trichloroethene	27.3	**28.4**	**104**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.4**	**107**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.4**	**110**	79-128	
142-82-5	n-Heptane	26.8	**27.8**	**104**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**27.2**	**109**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.9**	**98**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**30.2**	**108**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.9**	**106**	80-117	
108-88-3	Toluene	26.5	**25.6**	**97**	76-116	
591-78-6	2-Hexanone	26.3	**24.2**	**92**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.8**	**103**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.4**	**100**	79-122	
111-65-9	n-Octane	26.0	**26.2**	**101**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.8**	**99**	77-118	
108-90-7	Chlorobenzene	26.5	**25.9**	**98**	78-117	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
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	**25.9**	**98**	79-116	
179601-23-1	m,p-Xylenes	62.5	**61.1**	**98**	80-117	
75-25-2	Bromoform	31.3	**35.2**	**112**	77-128	
100-42-5	Styrene	26.3	**27.0**	**103**	80-124	
95-47-6	o-Xylene	29.8	**29.1**	**98**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.3**	**98**	79-120	
98-82-8	Cumene	27.0	**27.0**	**100**	81-119	
103-65-1	n-Propylbenzene	26.3	**26.4**	**100**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.5**	**100**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.9**	**100**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.7**	**105**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**26.0**	**100**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.9**	**108**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.5**	**100**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**26.5**	**101**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.9**	**100**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.9**	**104**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.8**	**100**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**28.3**	**110**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**28.8**	**111**	75-138	
91-20-3	Naphthalene	26.3	**28.0**	**106**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**27.6**	**105**	72-128	
98-06-6	tert-Butylbenzene	26.3	**26.1**	**99**	70-130	
104-51-8	n-Butylbenzene	26.8	**27.0**	**101**	70-130	

Verified By: Ca Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
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	**24.1**	**95**	69-117	
74-87-3	Chloromethane	24.5	**25.5**	**104**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**26.4**	**102**	58-133	
75-01-4	Vinyl Chloride	24.8	**24.3**	**98**	61-127	
74-83-9	Bromomethane	25.0	**25.9**	**104**	67-124	
75-00-3	Chloroethane	25.0	**24.3**	**97**	69-123	
64-17-5	Ethanol	23.8	**26.8**	**113**	56-137	
67-64-1	Acetone	26.8	**26.3**	**98**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**26.6**	**101**	71-120	
107-13-1	Acrylonitrile	25.5	**27.6**	**108**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**28.8**	**104**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**27.1**	**105**	35-141	
75-09-2	Methylene Chloride	27.8	**27.4**	**99**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**30.7**	**115**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.9**	**100**	63-129	
75-15-0	Carbon Disulfide	25.0	**24.0**	**96**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**27.5**	**104**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**28.1**	**105**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.5**	**103**	72-119	
108-05-4	Vinyl Acetate	25.3	**29.7**	**117**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**28.2**	**104**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.8**	**103**	74-117	
108-20-3	Diisopropyl Ether	26.3	**27.2**	**103**	70-131	
67-66-3	Chloroform	29.8	**31.9**	**107**	72-113	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
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	**27.3**	**105**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**27.6**	**105**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**27.6**	**103**	78-114	
71-43-2	Benzene	27.0	**25.2**	**93**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**27.4**	**105**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**27.3**	**105**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**27.3**	**103**	78-117	
75-27-4	Bromodichloromethane	27.8	**29.6**	**106**	77-120	
79-01-6	Trichloroethene	27.3	**28.1**	**103**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.3**	**107**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.9**	**112**	79-128	
142-82-5	n-Heptane	26.8	**27.4**	**102**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**27.1**	**108**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.9**	**98**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**30.2**	**108**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.6**	**105**	80-117	
108-88-3	Toluene	26.5	**25.1**	**95**	76-116	
591-78-6	2-Hexanone	26.3	**23.9**	**91**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.3**	**101**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**25.8**	**98**	79-122	
111-65-9	n-Octane	26.0	**25.9**	**100**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.4**	**98**	77-118	
108-90-7	Chlorobenzene	26.5	**25.4**	**96**	78-117	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
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	**25.6**	**97**	79-116	
179601-23-1	m,p-Xylenes	62.5	**59.9**	**96**	80-117	
75-25-2	Bromoform	31.3	**34.2**	**109**	77-128	
100-42-5	Styrene	26.3	**26.6**	**101**	80-124	
95-47-6	o-Xylene	29.8	**28.5**	**96**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.0**	**97**	79-120	
98-82-8	Cumene	27.0	**26.5**	**98**	81-119	
103-65-1	n-Propylbenzene	26.3	**25.9**	**98**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.2**	**99**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.4**	**98**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.0**	**102**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.4**	**98**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.4**	**106**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.1**	**98**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**26.0**	**99**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.4**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.2**	**101**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.2**	**98**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**27.8**	**108**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**27.9**	**107**	75-138	
91-20-3	Naphthalene	26.3	**27.4**	**104**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**26.9**	**102**	72-128	
98-06-6	tert-Butylbenzene	26.3	**25.7**	**98**	70-130	
104-51-8	n-Butylbenzene	26.8	**26.5**	**99**	70-130	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Dichlorodifluoromethane (CFC 12)	ND	ND	2.20	0.446	-	-	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	ND	-	-	25	
Acetone	25.9	10.9	25.6	10.8	25.75	**1**	25	**J, B**
Trichlorofluoromethane	55.8	9.94	55.5	9.88	55.65	**0.5**	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	ND	ND	ND	-	-	25	
Methylene Chloride	3.44	0.991	3.77	1.09	3.605	**9**	25	**J, B**
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	7.18	1.77	7.01	1.73	7.095	**2**	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	7.41	2.52	7.11	2.41	7.26	**4**	25	**J, B**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	7,490	1,530	7,410	1,520	7450	**1**	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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	6.28	1.97	6.38	2.00	6.33	**2**	25	**B**
Carbon Tetrachloride	209	33.3	209	33.3	209	**0**	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	32.3	8.57	32.7	8.68	32.5	**1**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Octane	25.7	5.51	26.3	5.63	26	**2**	25	
Tetrachloroethene	30.8	4.54	30.2	4.46	30.5	**2**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Ethylbenzene	8.88	2.05	8.52	1.96	8.7	**4**	25	**J**
m,p-Xylenes	46.7	10.7	47.2	10.9	46.95	**1**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	16.6	3.82	16.5	3.81	16.55	**0.6**	25	**J**
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	3.64	0.741	3.27	0.666	3.455	**11**	25	**J**
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	5.18	1.05	5.08	1.03	5.13	**2**	25	**J**
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	4.34	0.722	4.18	0.695	4.26	**4**	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	ND	ND	ND	ND	-	-	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	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507

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

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 05270801.D
Analyst: Wida Ang Date Analyzed: 5/27/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 10:18
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	416189	9.22	1740493	11.36	689026	16.45
	Upper Limit	582665	9.55	2436690	11.69	964636	16.78
	Lower Limit	249713	8.89	1044296	11.03	413416	16.12
	Client Sample ID						
01	Method Blank	411633	9.19	1710469	11.34	681215	16.44
02	Lab Control Sample	406006	9.23	1679145	11.37	677576	16.45
03	SG77B-05	416586	9.20	1711385	11.34	684381	16.45
04	SG77B-05 (Dilution)	414826	9.19	1697256	11.34	680501	16.44
05	SG30B-05	407143	9.20	1685075	11.35	671836	16.45
06	SG59B-05	406437	9.20	1677305	11.35	674760	16.45
07	SG31B-05 (Dilution)	402647	9.19	1659207	11.34	667638	16.45
08	SG56B-05	400661	9.20	1646575	11.35	663053	16.45
09	SG56B-05 (Lab Duplicate)	392730	9.20	1634694	11.35	660800	16.45
10	SG56B-05D (Dilution)	390553	9.19	1634882	11.34	658250	16.45
11	SG55B-05	390977	9.20	1623936	11.35	656497	16.45
12	SG57B-05	388924	9.20	1619160	11.35	656839	16.45
13	SG13B-05	380792	9.20	1597367	11.35	659426	16.45
14	SG15B-05	292426	9.17	1419564	11.33	494463	16.45
15	SG14B-05	379532	9.22	1577066	11.36	651799	16.45
16	SG06B-05	389303	9.20	1623961	11.35	666312	16.45
17	SG56B-05 (Dilution)	402096	9.19	1667992	11.34	682079	16.45
18	SG56B-05 (Lab Dup - Dilution)	399452	9.19	1672637	11.34	675510	16.45
19	SG13B-05 (Dilution)	403942	9.19	1653911	11.34	667568	16.45
20	SG15B-05 (Dilution)	394194	9.19	1641811	11.34	663545	16.45
21	SG14B-05 (Dilution)	388783	9.19	1614645	11.35	658561	16.45

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister(s)
Test Notes:

Lab File ID: 05280801.D
Date Analyzed: 5/28/08
Time Analyzed: 08:29

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	393838	9.20	1621199	11.36	662879	16.45
	Upper Limit	551373	9.53	2269679	11.69	928031	16.78
	Lower Limit	236303	8.87	972719	11.03	397727	16.12
	Client Sample ID						
01	Method Blank	385506	9.19	1591554	11.34	648424	16.44
02	SG30B-05 (Dilution)	381474	9.19	1555272	11.34	637855	16.45
03	SG59B-05 (Dilution)	373915	9.19	1544249	11.34	627480	16.45
04	SG31B-05	370470	9.20	1515272	11.35	626252	16.45
05	SG56B-05D	369769	9.21	1533976	11.36	624528	16.45
06	SG55B-05 (Dilution)	372167	9.19	1552178	11.34	637423	16.44
07	SG57B-05 (Dilution)	379052	9.19	1549547	11.34	630197	16.44
08	SG29B-05	374160	9.20	1530320	11.35	627102	16.45
09	SG60B-05	371218	9.20	1523833	11.35	623724	16.45
10	Lab Control Sample	377949	9.22	1568486	11.36	642257	16.45
11	SG60B-05 (Dilution)	384373	9.19	1575449	11.34	645600	16.45
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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507

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

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 05290801.D
Analyst: Wida Ang Date Analyzed: 5/29/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 08:31
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	383231	9.22	1598146	11.36	654560	16.45
	Upper Limit	536523	9.55	2237404	11.69	916384	16.78
	Lower Limit	229939	8.89	958888	11.03	392736	16.12
	Client Sample ID						
01	Method Blank	381746	9.19	1582084	11.34	649804	16.44
02	SG29B-05 (Dilution)	381287	9.19	1569012	11.34	645319	16.44
03	SG58B-05 (Dilution)	377706	9.19	1560046	11.34	639445	16.44
04	SG58B-05	372594	9.20	1531812	11.35	629311	16.45
05	Lab Control Sample	366705	9.23	1518501	11.36	629252	16.45
06							
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: LH Date: 6/5/08

RESULTS OF HELIUM ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507

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: 5/19 - 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/23/08

Client Sample ID	CAS Sample ID	Injection Volume ml(s)	Canister Dilution Factor	Result ppmV	MRL ppmV	Data Qualifier
SG77B-05	P0801507-001	1.00	1.56	ND	39	
SG30B-05	P0801507-002	1.00	1.56	ND	39	
SG29B-05	P0801507-003	1.00	1.65	**120**	41	
SG59B-05	P0801507-004	1.00	1.73	ND	43	
SG31B-05	P0801507-005	1.00	1.58	ND	40	
SG60B-05	P0801507-006	1.00	1.65	**1,100**	41	
SG58B-05	P0801507-007	1.00	1.70	ND	43	
SG56B-05	P0801507-008	1.00	1.67	ND	42	
SG56B-05D	P0801507-009	1.00	1.67	ND	42	
SG55B-05	P0801507-010	1.00	1.70	ND	43	
SG57B-05	P0801507-011	1.00	1.61	ND	40	
SG13B-05	P0801507-012	1.00	1.61	ND	40	
SG15B-05	P0801507-013	1.00	1.63	ND	41	
SG14B-05	P0801507-014	1.00	1.63	ND	41	
SG06B-05	P0801507-015	1.00	1.54	ND	39	
Method Blank	P080523-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: RG Date: 6/5/08

RESULTS OF VOLATILE ORGANIC ANALYSIS

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG77B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00799

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	78	7.8	ND	16	1.6	
74-87-3	Chloromethane	ND	16	7.8	ND	7.6	3.8	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	78	7.8	ND	11	1.1	
75-01-4	Vinyl Chloride	ND	16	7.8	ND	6.1	3.1	
74-83-9	Bromomethane	ND	16	7.8	ND	4.0	2.0	
75-00-3	Chloroethane	ND	16	7.8	ND	5.9	3.0	
64-17-5	**Ethanol**	**17**	780	7.8	**8.9**	410	4.1	**J, B**
67-64-1	**Acetone**	**330**	780	11	**140**	330	4.8	**J, B**
75-69-4	Trichlorofluoromethane	ND	16	7.8	ND	2.8	1.4	
107-13-1	Acrylonitrile	ND	78	11	ND	36	5.0	
75-35-4	**1,1-Dichloroethene**	**14**	16	7.8	**3.6**	3.9	2.0	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	78	12	ND	26	3.8	
75-09-2	**Methylene Chloride**	**20**	78	7.8	**5.8**	22	2.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	16	7.8	ND	5.0	2.5	
76-13-1	Trichlorotrifluoroethane	ND	16	8.7	ND	2.0	1.1	
75-15-0	Carbon Disulfide	ND	78	19	ND	25	6.0	
156-60-5	trans-1,2-Dichloroethene	ND	16	7.8	ND	3.9	2.0	
75-34-3	1,1-Dichloroethane	ND	16	7.8	ND	3.9	1.9	
1634-04-4	Methyl tert-Butyl Ether	ND	16	7.8	ND	4.3	2.2	
108-05-4	Vinyl Acetate	ND	780	25	ND	220	7.1	
78-93-3	**2-Butanone (MEK)**	**51**	78	7.8	**17**	26	2.6	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	16	7.8	ND	3.9	2.0	
108-20-3	Diisopropyl Ether	ND	78	9.2	ND	19	2.2	
67-66-3	**Chloroform**	**45,000**	16	9.2	**9,300**	3.2	1.9	

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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG77B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-001

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00799

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	78	8.0	ND	19	1.9	
107-06-2	1,2-Dichloroethane	ND	16	7.8	ND	3.9	1.9	
71-55-6	1,1,1-Trichloroethane	ND	16	7.8	ND	2.9	1.4	
71-43-2	**Benzene**	**47**	16	7.8	**15**	4.9	2.4	**B**
56-23-5	**Carbon Tetrachloride**	**22**	16	7.8	**3.6**	2.5	1.2	
994-05-8	tert-Amyl Methyl Ether	ND	78	7.8	ND	19	1.9	
78-87-5	1,2-Dichloropropane	ND	16	7.8	ND	3.4	1.7	
75-27-4	**Bromodichloromethane**	**47**	16	7.8	**7.0**	2.3	1.2	
79-01-6	**Trichloroethene**	**120**	16	7.8	**22**	2.9	1.5	
123-91-1	1,4-Dioxane	ND	78	9.5	ND	22	2.6	
80-62-6	Methyl Methacrylate	ND	78	12	ND	19	2.9	
142-82-5	**n-Heptane**	**39**	78	10	**9.5**	19	2.4	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	78	8.1	ND	17	1.8	
108-10-1	4-Methyl-2-pentanone	ND	78	8.7	ND	19	2.1	
10061-02-6	trans-1,3-Dichloropropene	ND	78	9.8	ND	17	2.2	
79-00-5	1,1,2-Trichloroethane	ND	16	7.8	ND	2.9	1.4	
108-88-3	**Toluene**	**430**	78	7.8	**110**	21	2.1	
591-78-6	2-Hexanone	ND	78	12	ND	19	2.9	
124-48-1	**Dibromochloromethane**	**32**	16	11	**3.8**	1.8	1.2	
106-93-4	1,2-Dibromoethane	ND	16	8.4	ND	2.0	1.1	
111-65-9	**n-Octane**	**1,000**	78	7.8	**210**	17	1.7	
127-18-4	**Tetrachloroethene**	**49**	16	7.8	**7.2**	2.3	1.2	
108-90-7	Chlorobenzene	ND	16	8.0	ND	3.4	1.7	

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG77B-05** CAS Sample ID: P0801507-001
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/19/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.010 Liter(s)
Test Notes: 0.0020 Liter(s)
Container ID: SC00799

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

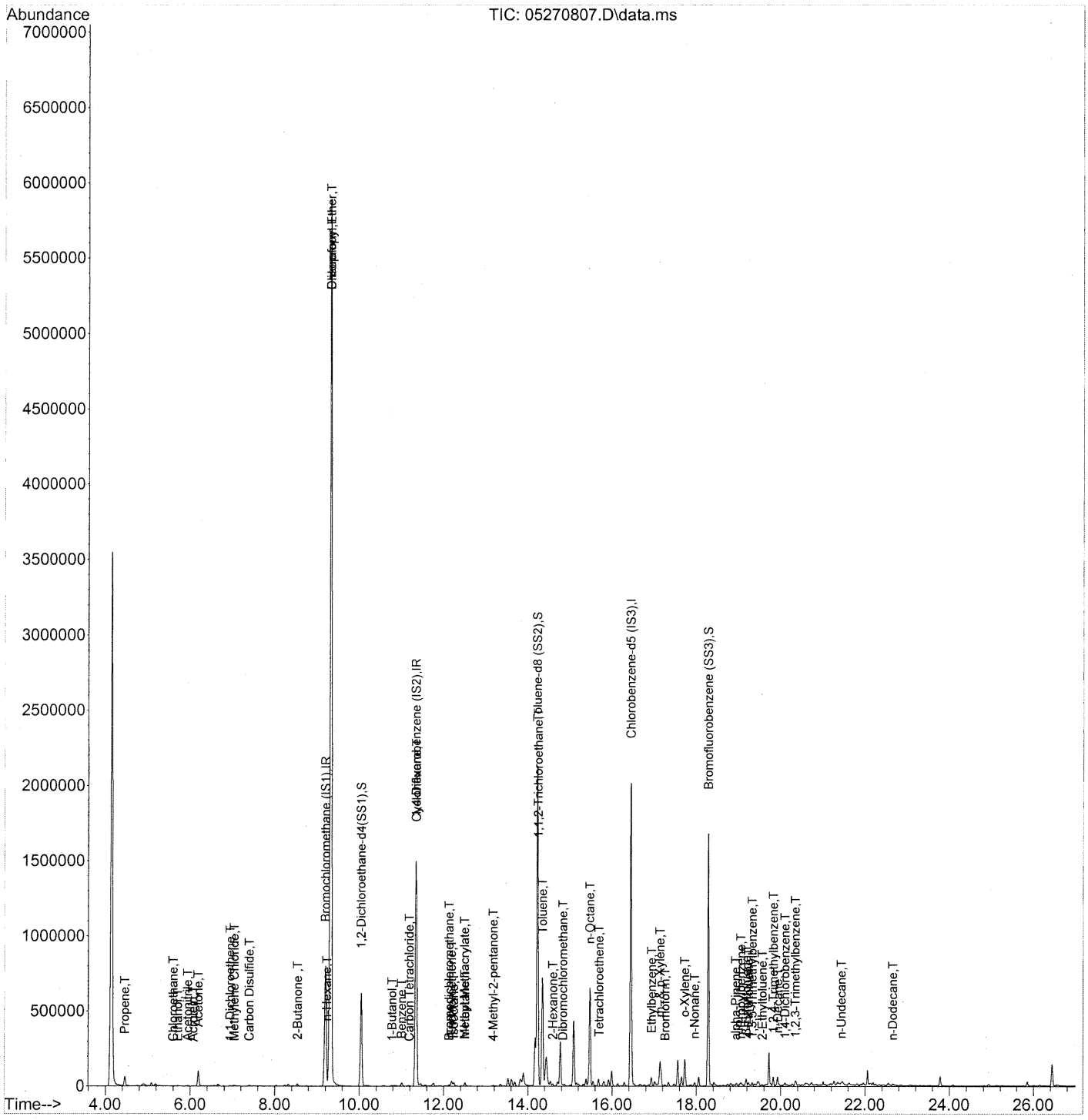
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**85**	78	9.7	**20**	18	2.2	
179601-23-1	**m,p-Xylenes**	**360**	78	20	**84**	18	4.7	
75-25-2	**Bromoform**	**41**	78	12	**3.9**	7.5	1.1	**J**
100-42-5	Styrene	ND	78	12	ND	18	2.8	
95-47-6	**o-Xylene**	**110**	78	9.8	**25**	18	2.3	
79-34-5	1,1,2,2-Tetrachloroethane	ND	16	10	ND	2.3	1.5	
98-82-8	Cumene	ND	78	8.7	ND	16	1.8	
103-65-1	**n-Propylbenzene**	**14**	78	8.1	**2.9**	16	1.7	**J**
622-96-8	**4-Ethyltoluene**	**21**	78	8.9	**4.2**	16	1.8	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**22**	78	9.4	**4.5**	16	1.9	**J**
98-83-9	alpha-Methylstyrene	ND	78	11	ND	16	2.4	
95-63-6	**1,2,4-Trimethylbenzene**	**42**	78	11	**8.6**	16	2.2	**J**
100-44-7	Benzyl Chloride	ND	16	13	ND	3.0	2.6	
541-73-1	1,3-Dichlorobenzene	ND	16	9.7	ND	2.6	1.6	
106-46-7	**1,4-Dichlorobenzene**	**17**	16	8.7	**2.8**	2.6	1.5	
135-98-8	sec-Butylbenzene	ND	78	9.0	ND	14	1.6	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	78	10	ND	14	1.8	
95-50-1	1,2-Dichlorobenzene	ND	16	10	ND	2.6	1.7	
96-12-8	1,2-Dibromo-3-chloropropane	ND	78	12	ND	8.1	1.2	
120-82-1	1,2,4-Trichlorobenzene	ND	16	12	ND	2.1	1.6	
91-20-3	Naphthalene	ND	31	12	ND	6.0	2.2	
87-68-3	Hexachlorobutadiene	ND	16	14	ND	1.5	1.3	
98-06-6	tert-Butylbenzene	ND	31	7.8	ND	5.7	1.4	
104-51-8	n-Butylbenzene	ND	31	7.8	ND	5.7	1.4	

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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	416586	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1711385	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	684381	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	569524	23.909	ng		-0.05
Spiked Amount 25.000			Recovery = 95.64%				
57) Toluene-d8 (SS2)	14.22	98	1735852	24.602	ng		-0.02
Spiked Amount 25.000			Recovery = 98.40%				
73) Bromofluorobenzene (SS3)	18.28	174	603399	25.722	ng		-0.01
Spiked Amount 25.000			Recovery = 102.88%				
Target Compounds							Qvalue
2) Propene	4.45	42	11316	0.351	ng		89
3) Dichlorodifluoromethane	4.55	85	651	N.D.			
4) Chloromethane	4.75	50	1738	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.14	54	94	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	5.60	64	1466	~~0.091~~	ng	NR #	54
10) Ethanol	5.71	45	2360	0.108	ng		82
11) Acetonitrile	5.94	41	5321	0.084	ng	#	56
12) Acrolein	6.07	56	1736	0.110	ng		80
13) Acetone	6.19	58	46741	2.147	ng	#	76
14) Trichlorofluoromethane	6.33	101	139	N.D.			
15) Isopropanol	6.48	45	100	N.D.			
16) Acrylonitrile	6.61	53	1407	N.D.			
17) 1,1-Dichloroethene	6.94	96	1564	0.092	ng		99
18) tert-Butanol	7.02	59	95	N.D.			
19) Methylene Chloride	7.04	84	2150	0.128	ng	#	31
20) Allyl Chloride	7.17	41	194	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	7789	~~0.115~~	ng	<MDL	87
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	8.24	86	175	N.D.			
27) 2-Butanone	8.53	72	3735	0.328	ng	#	2
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	711802	~~47.483~~	ng	NR #	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.23	57	3836	0.081	ng	#	65

86

DSM 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	6496370	~~264.263 ng~~ see dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	10.18	62	1186	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	10.77	56	4038	0.143 ng		88
41) Benzene	11.01	78	21751	0.301 ng		97
42) Carbon Tetrachloride	11.18	117	4255	0.144 ng		96
43) Cyclohexane	11.35	84	2769	0.098 ng	#	1
44) tert-Amyl Methyl Ether	0.00	73	0	N.D.		
45) 1,2-Dichloropropane	11.94	63	815	N.D.		
46) Bromodichloromethane	12.13	83	6380	0.301 ng		97
47) Trichloroethene	12.19	130	16770	0.747 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.24	57	25727	0.223 ng		99
50) Methyl Methacrylate	12.50	100	1427	~~0.184 ng~~ NR	#	1
51) n-Heptane	12.50	71	4291	0.249 ng	#	55
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.17	58	1722	~~0.069 ng~~ NR	#	44
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.24	97	148768	~~8.477 ng~~ NR	#	6
58) Toluene	14.35	91	219634	2.744 ng		97
59) 2-Hexanone	14.59	43	10350	~~0.137 ng~~ NR	#	47
60) Dibromochloromethane	14.83	129	4840	0.205 ng		95
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.31	43	1686	N.D.		
63) n-Octane	15.47	57	155061	6.407 ng		96
64) Tetrachloroethene	15.69	166	7444	0.314 ng		99
65) Chlorobenzene	16.50	112	675	N.D.		
66) Ethylbenzene	16.94	91	49706	0.546 ng		90
67) m- & p-Xylene	17.14	91	140210	2.326 ng		92
68) Bromoform	17.26	173	3566	0.260 ng		96
69) Styrene	17.59	104	1076	N.D.		
70) o-Xylene	17.73	91	44210	0.685 ng		91
71) n-Nonane	17.96	43	10983	0.173 ng		90
72) 1,1,2,2-Tetrachloroethane	17.65	83	208	N.D.		
74) Cumene	18.44	105	4605	N.D.		
75) alpha-Pinene	18.93	93	2537	0.058 ng		93
76) n-Propylbenzene	19.06	91	9773	0.090 ng	#	43
77) 3-Ethyltoluene	19.18	105	24250	0.235 ng		94
78) 4-Ethyltoluene	19.24	105	12328	0.133 ng		98
79) 1,3,5-Trimethylbenzene	19.33	105	11689	0.142 ng		89

87

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	97	N.D.		
81) 2-Ethyltoluene	19.56	105	8600	0.086 ng		98
82) 1,2,4-Trimethylbenzene	19.83	105	22708	0.272 ng		99
83) n-Decane	19.93	57	26641	0.451 ng		83
84) Benzyl Chloride	19.99	91	954	N.D.		
85) 1,3-Dichlorobenzene	20.02	146	656	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	5549	0.108 ng		94
87) sec-Butylbenzene	20.15	105	1299	N.D.		
88) p-Isopropyltoluene	20.34	119	2501	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	6155	0.077 ng		95
90) 1,2-Dichlorobenzene	20.52	146	569	N.D.		
91) d-Limonene	20.52	68	1071	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.43	57	7633	0.123 ng		89
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.70	128	5241	N.D.		
96) n-Dodecane	22.66	57	4627	0.077 ng	#	68
97) Hexachloro-1,3-butadiene	23.11	225	395	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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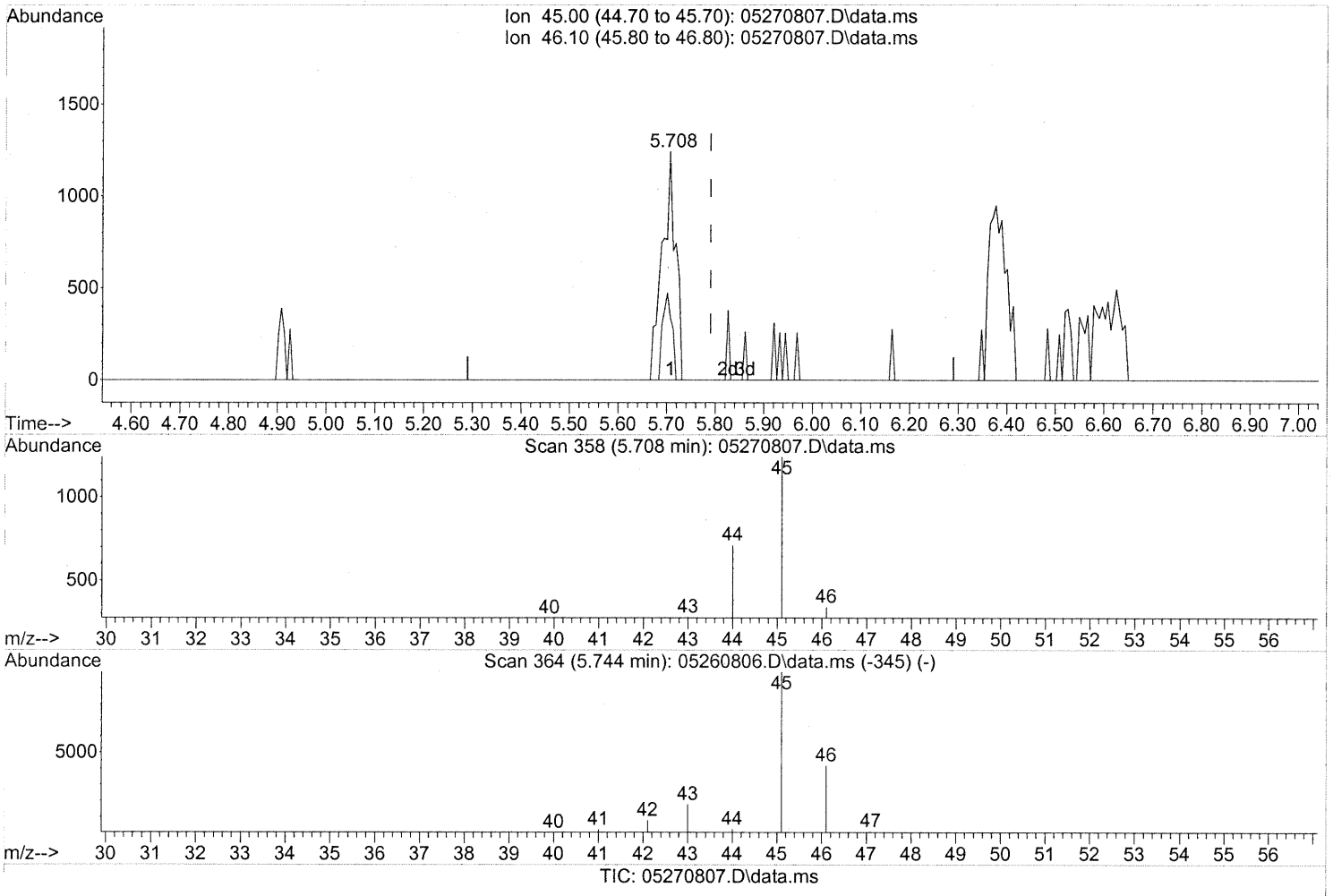
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 0.11ng

response 2360

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	26.48
0.00	0.00	0.00
0.00	0.00	0.00

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
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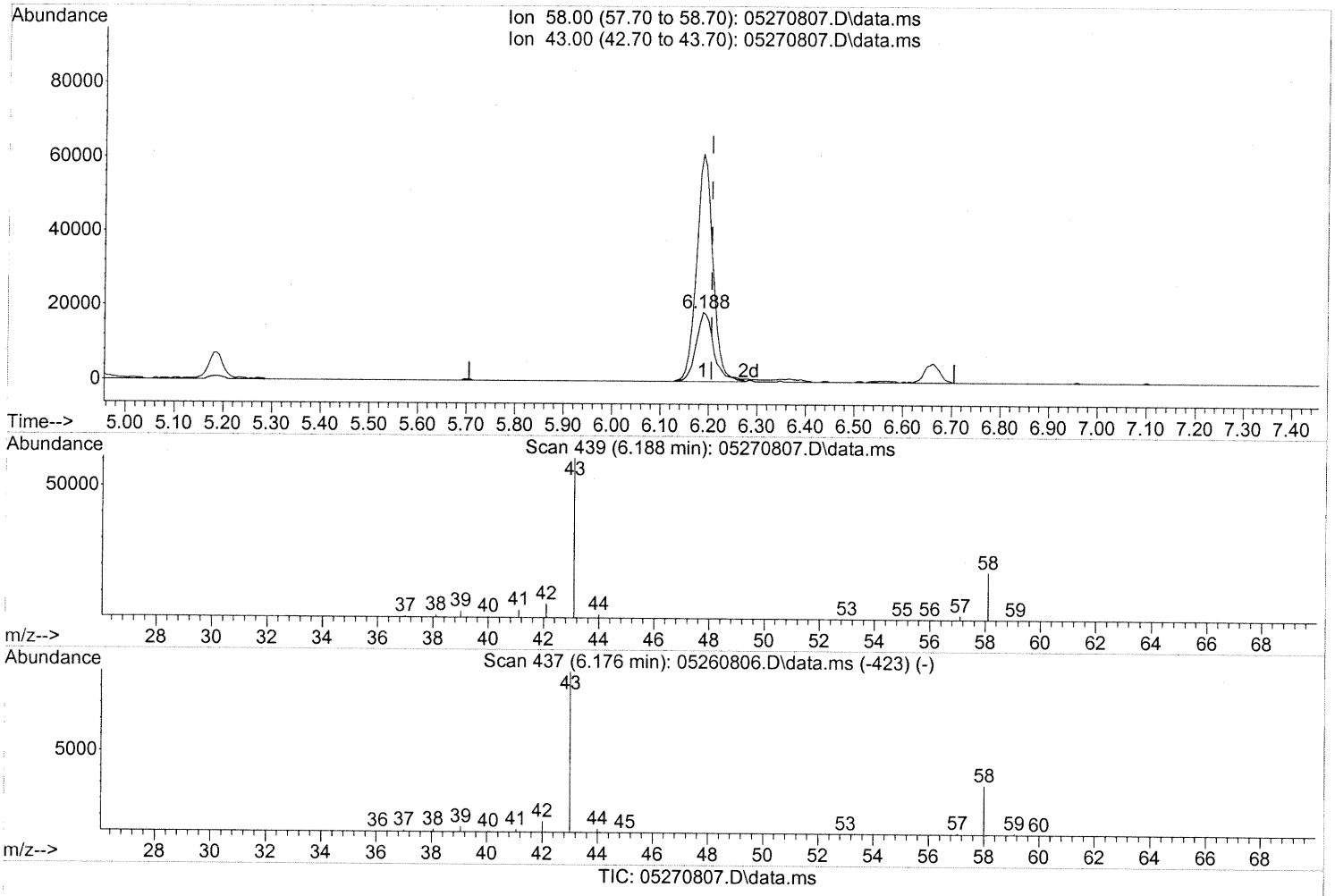

TIC: 05270807.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 2.15ng

response 46741

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	313.61#
0.00	0.00	0.00
0.00	0.00	0.00

90

Quantitation Report (Qedit)

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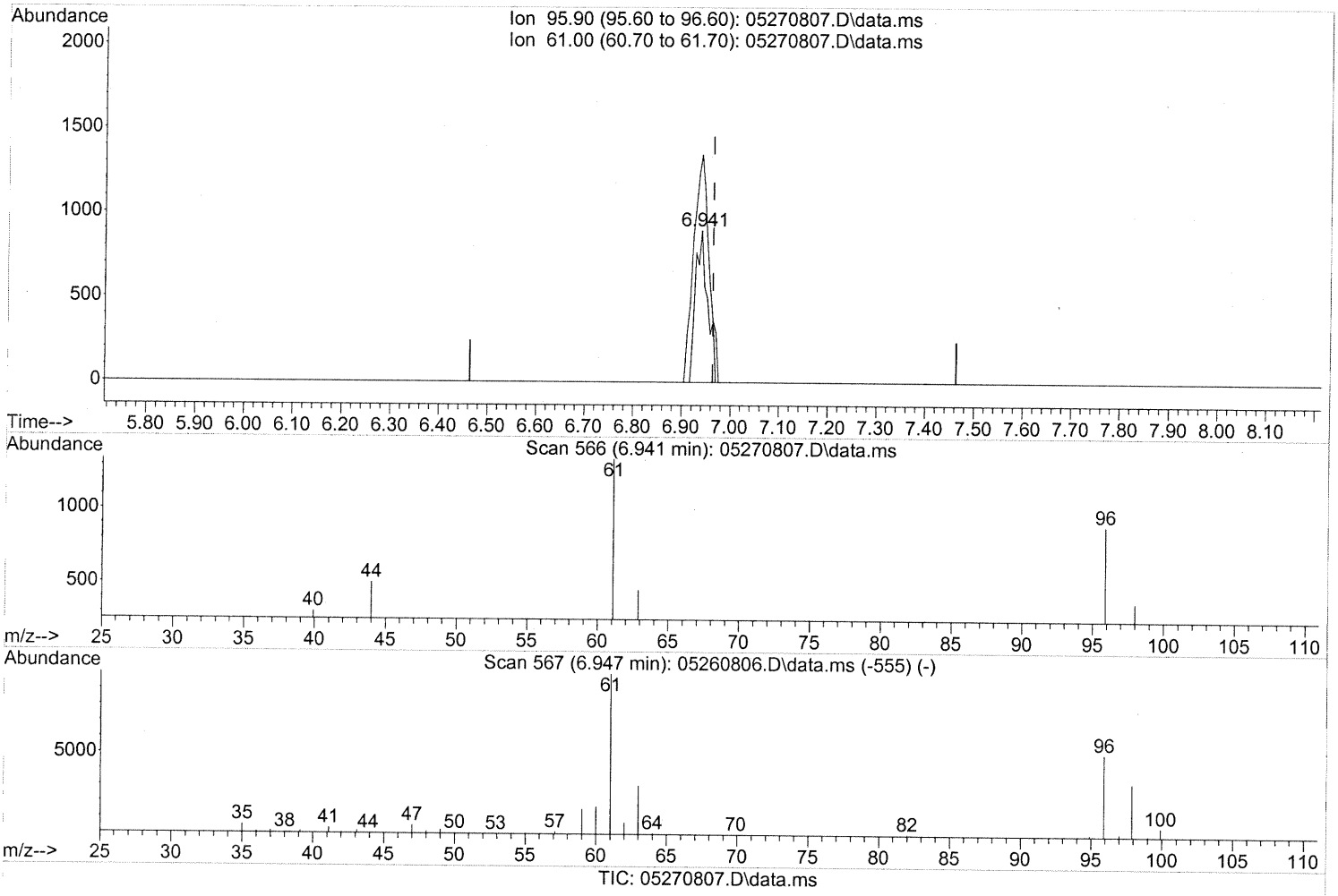

TIC: 05270807.D\data.ms

(17) 1,1-Dichloroethene (T)

6.941min (-0.024) 0.09ng

response 1564

Ion	Exp%	Act%
95.90	100	100
61.00	189.30	191.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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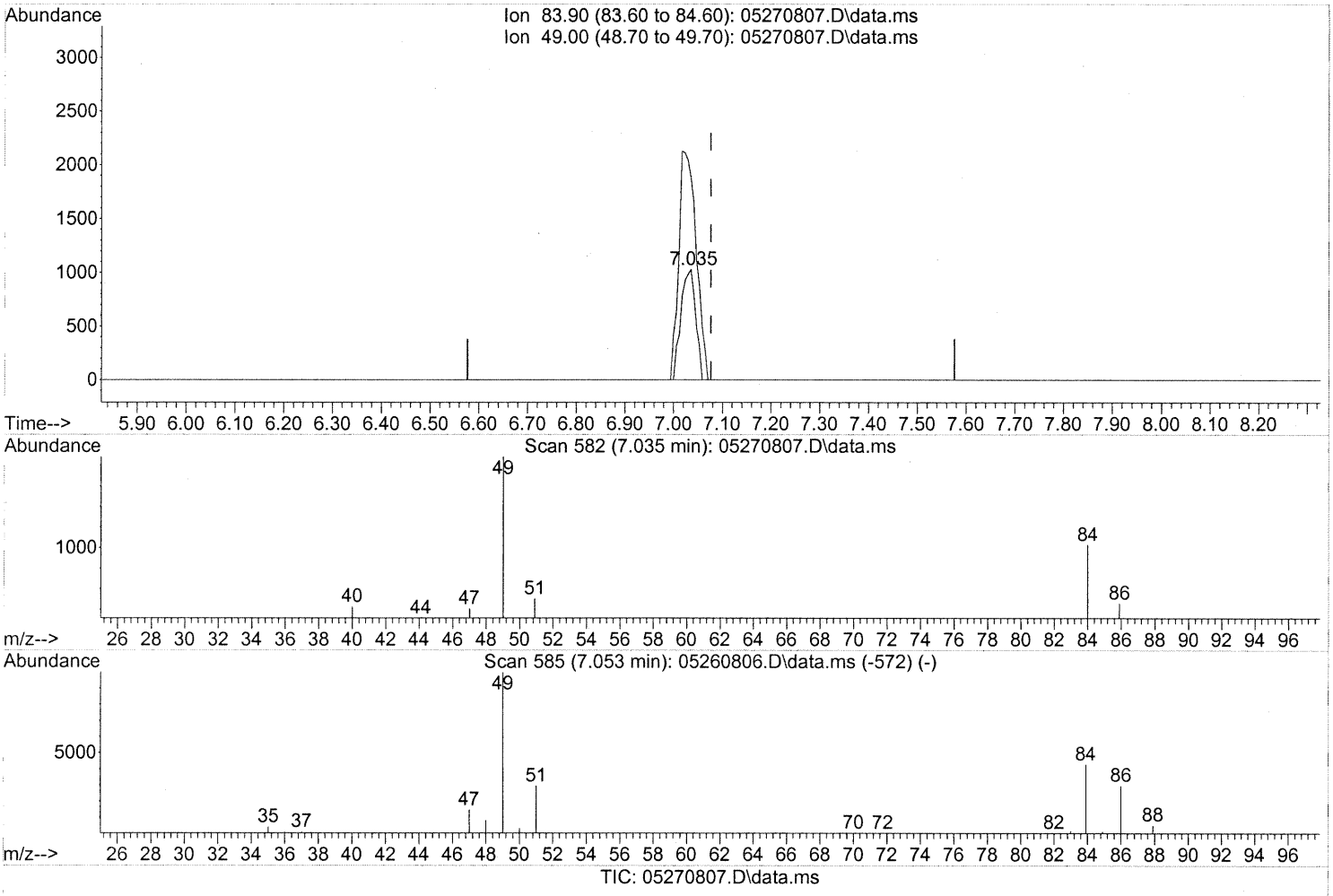

TIC: 05270807.D\data.ms

(19) Methylene Chloride (T)

7.035min (-0.042) 0.13ng

response 2150

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	245.30#
0.00	0.00	0.00
0.00	0.00	0.00

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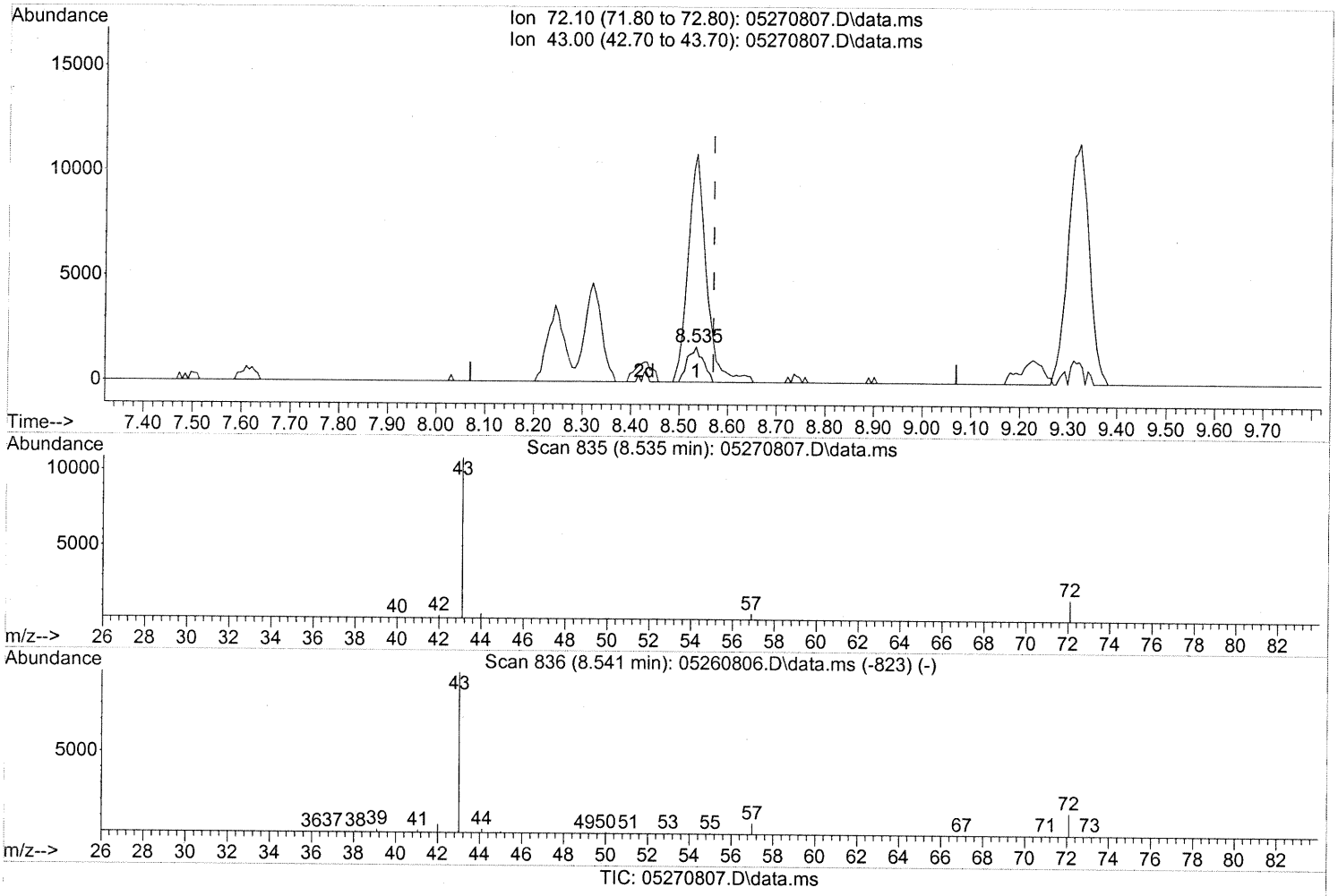

TIC: 05270807.D\data.ms

(27) 2-Butanone (T)

8.535min (-0.036) 0.33ng

response 3735

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	757.40#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
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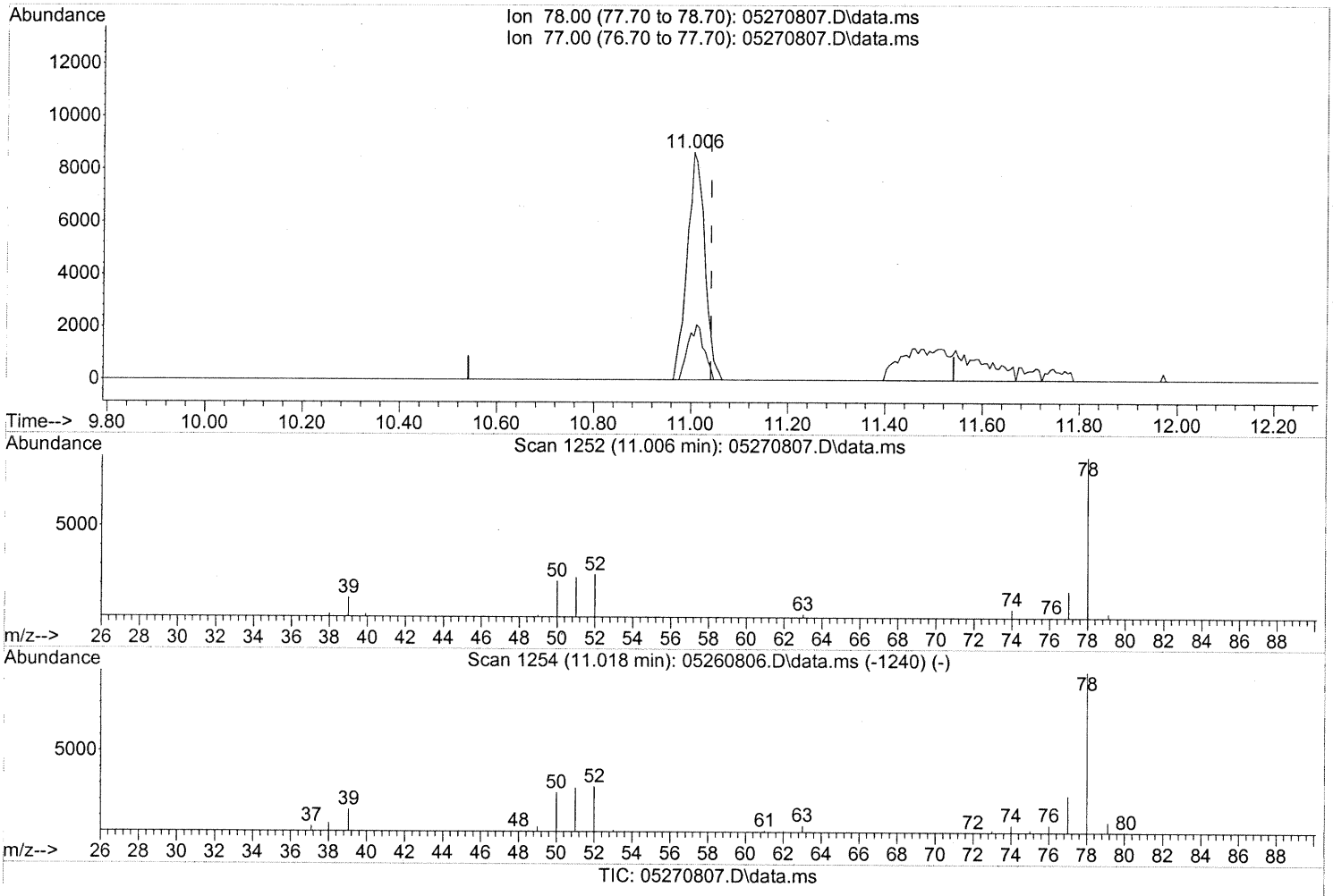

(41) Benzene (T)

11.006min (-0.036) 0.30ng

response 21751

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.17
0.00	0.00	0.00
0.00	0.00	0.00

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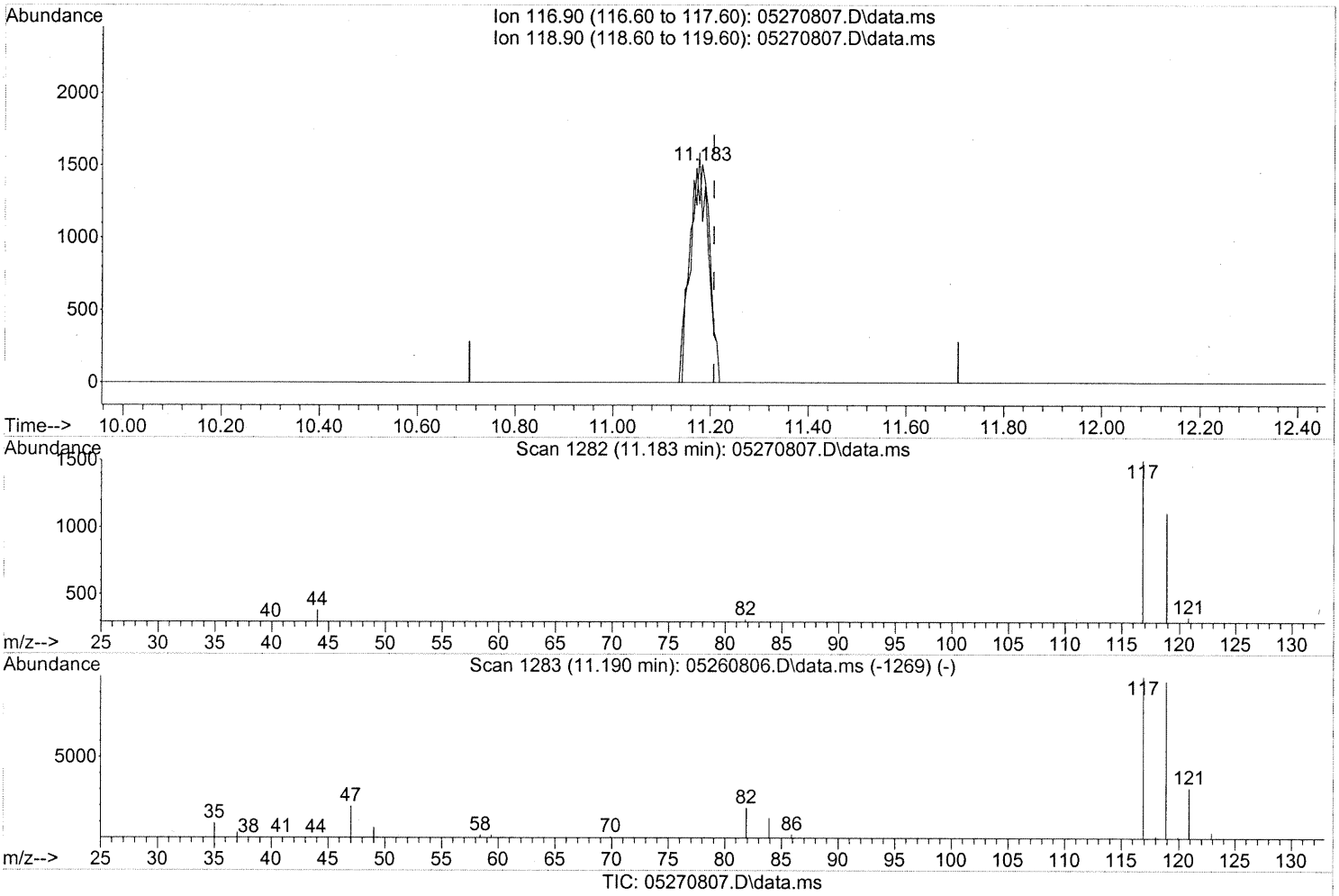

TIC: 05270807.D\data.ms

(42) Carbon Tetrachloride (T)

11.183min (-0.024) 0.14ng

response 4255

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	91.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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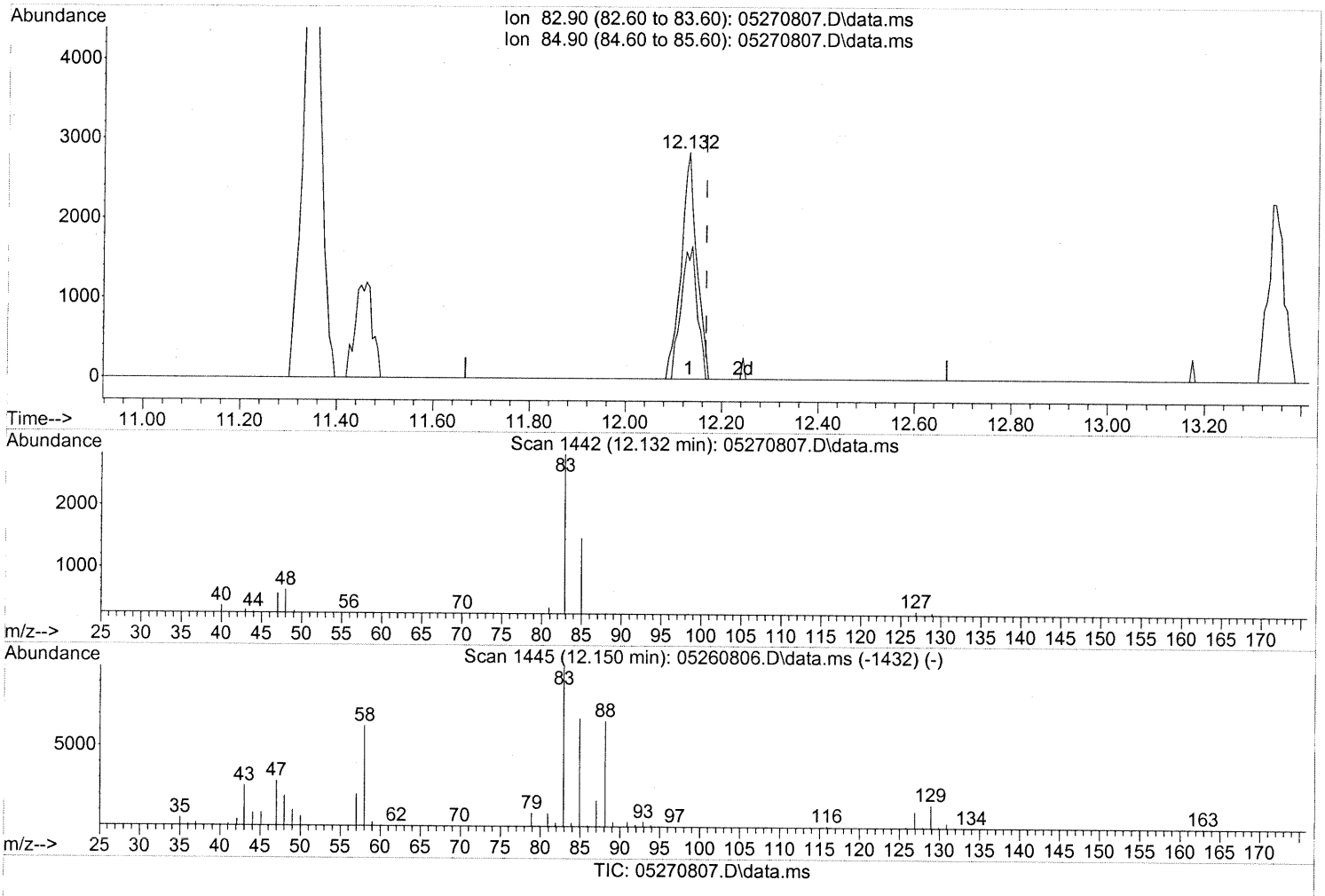

TIC: 05270807.D\data.ms

(46) Bromodichloromethane (T)

12.132min (-0.036) 0.30ng

response 6380

Ion	Exp%	Act%
82.90	100	100
84.90	62.30	60.30
0.00	0.00	0.00
0.00	0.00	0.00

96

Quantitation Report (Qedit)

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Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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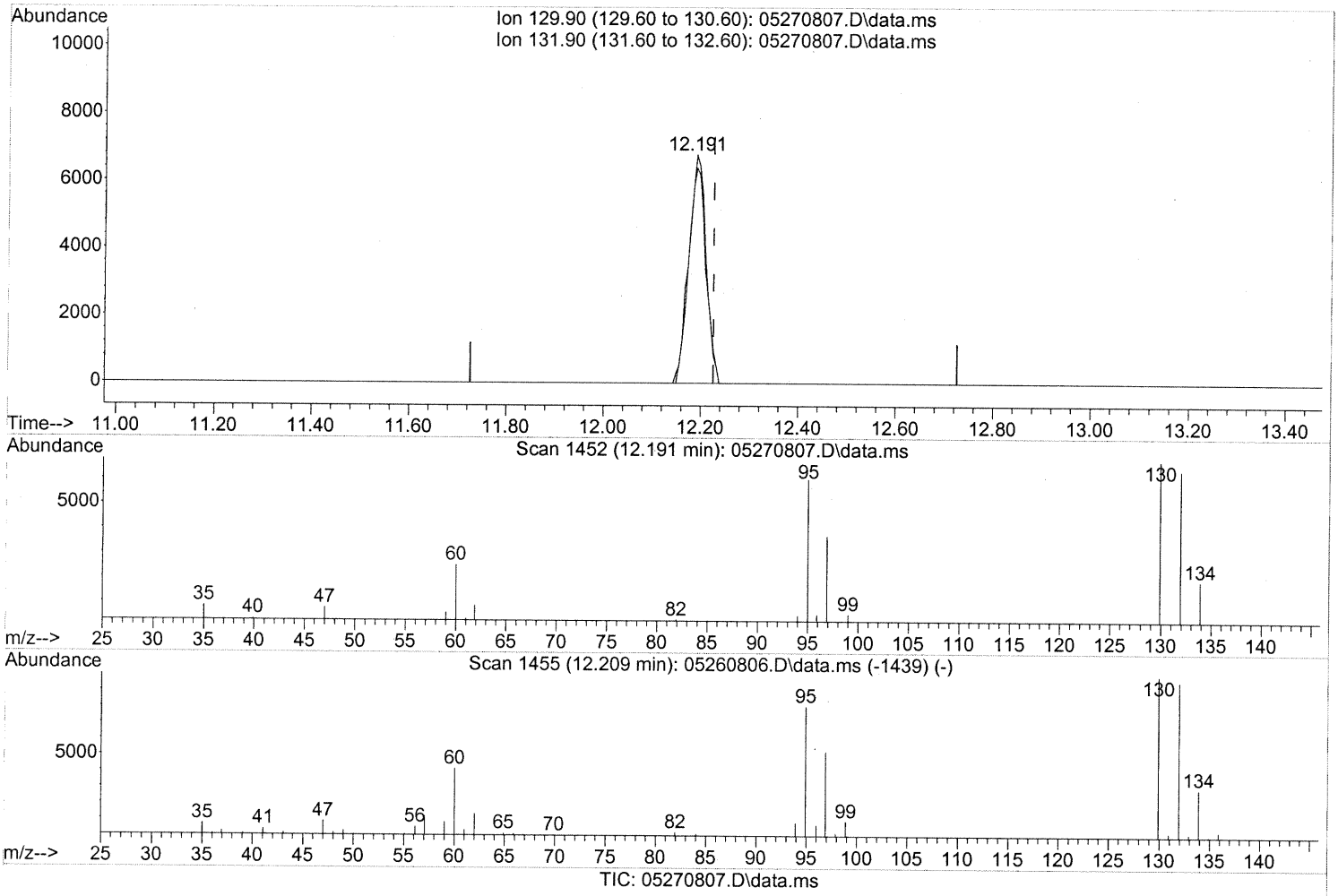

TIC: 05270807.D\data.ms

(47) Trichloroethene (T)

12.191min (-0.036) 0.75ng

response 16770

Ion	Exp%	Act%
129.90	100	100
131.90	95.10	94.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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Operator : WA
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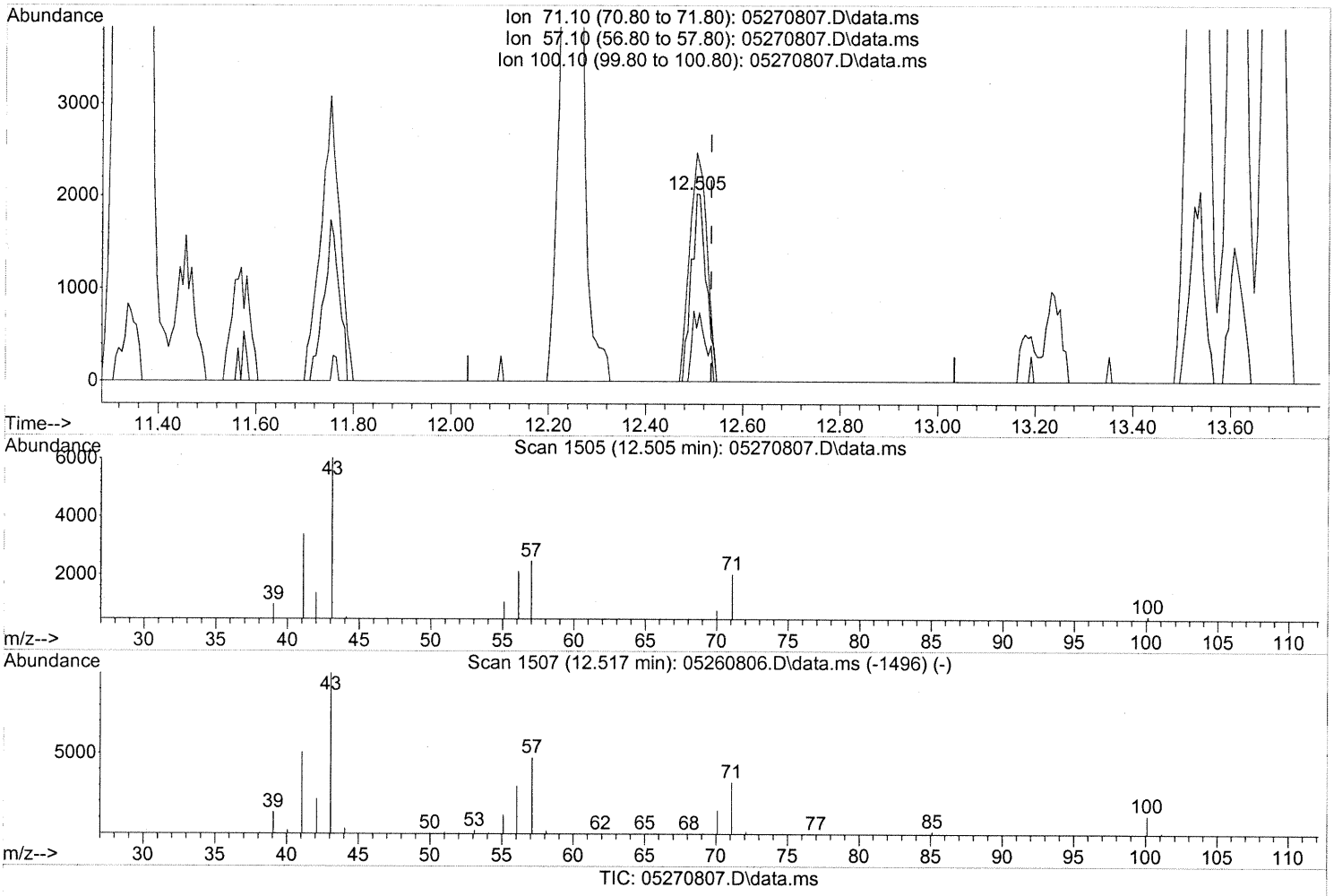

TIC: 05270807.D\data.ms

(51) n-Heptane (T)

12.505min (-0.030) 0.25ng

response 4291

Ion	Exp%	Act%
71.10	100	100
57.10	88.70	141.34#
100.10	28.80	33.26
0.00	0.00	0.00

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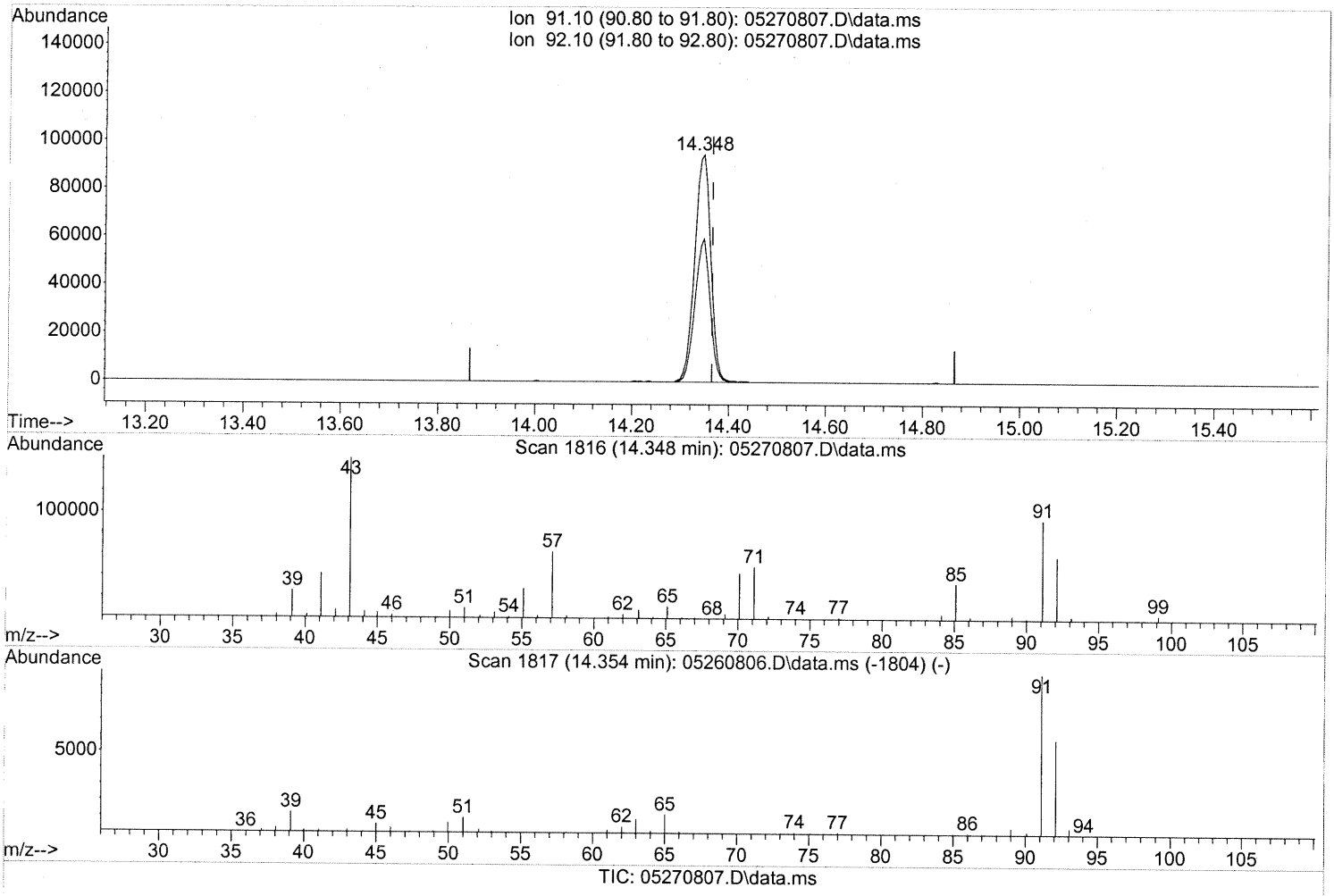

TIC: 05270807.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 2.74ng

response 219634

Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.80
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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QLast Update : Tue May 27 08:50:43 2008
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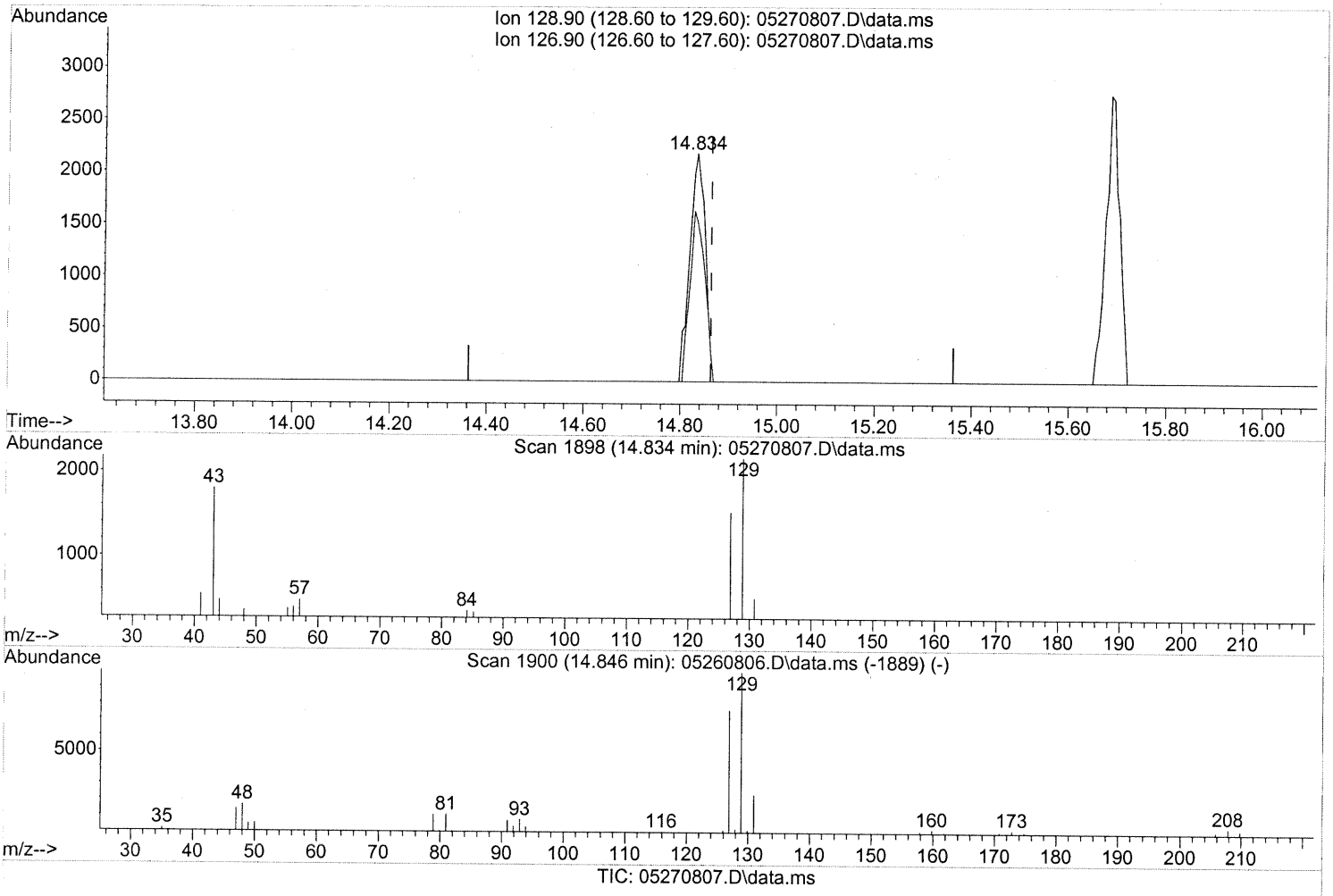

TIC: 05270807.D\data.ms

(60) Dibromochloromethane (T)

14.834min (-0.030) 0.20ng

response 4840

Ion	Exp%	Act%
128.90	100	100
126.90	77.20	72.79
0.00	0.00	0.00
0.00	0.00	0.00

100

Quantitation Report (Qedit)

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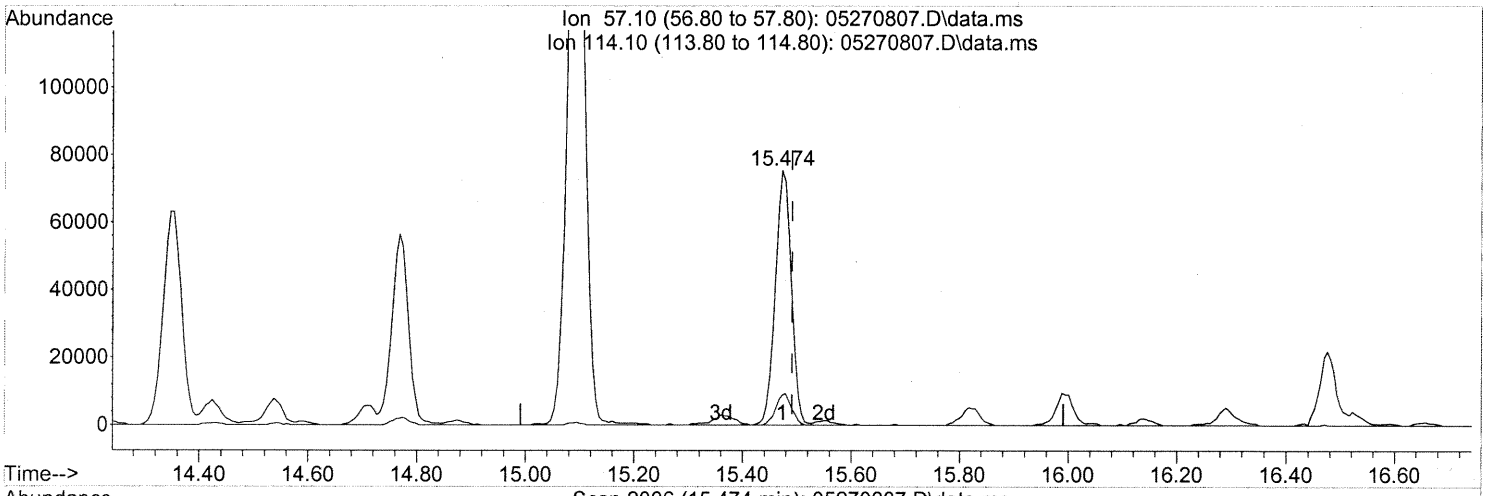

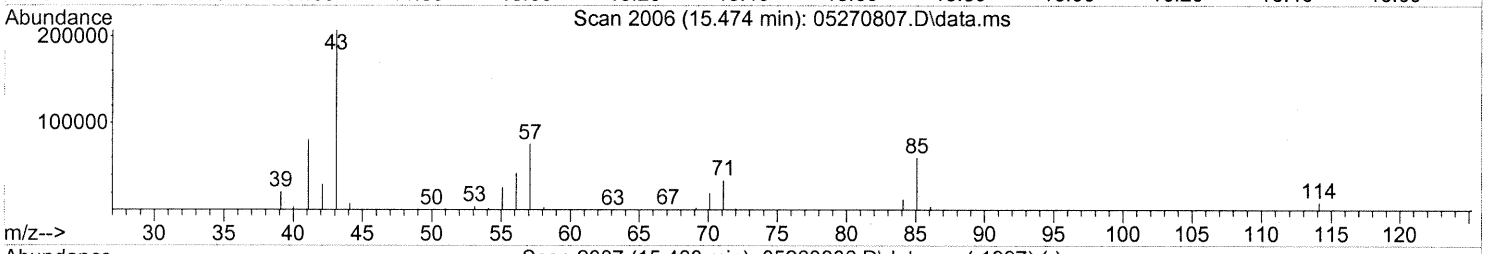

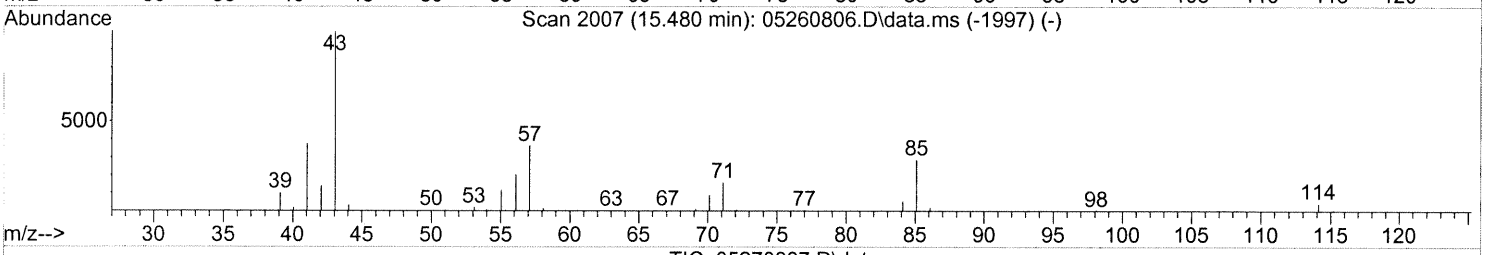

TIC: 05270807.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 6.41ng

response 155061

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.85
0.00	0.00	0.00
0.00	0.00	0.00

101

Data Path : J:\MS16\DATA\2008_05\27\
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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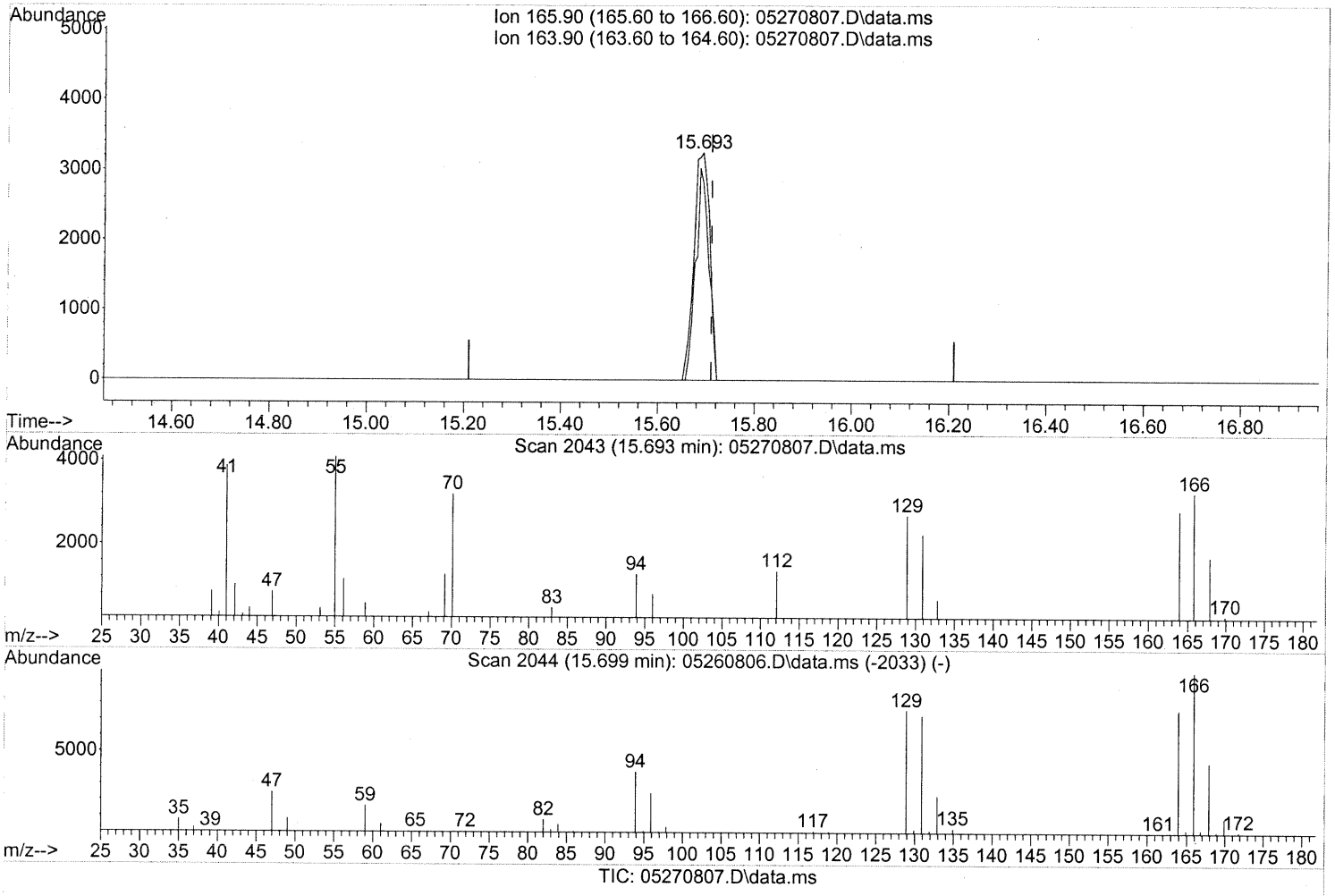

TIC: 05270807.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 0.31ng

response 7444

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	76.76
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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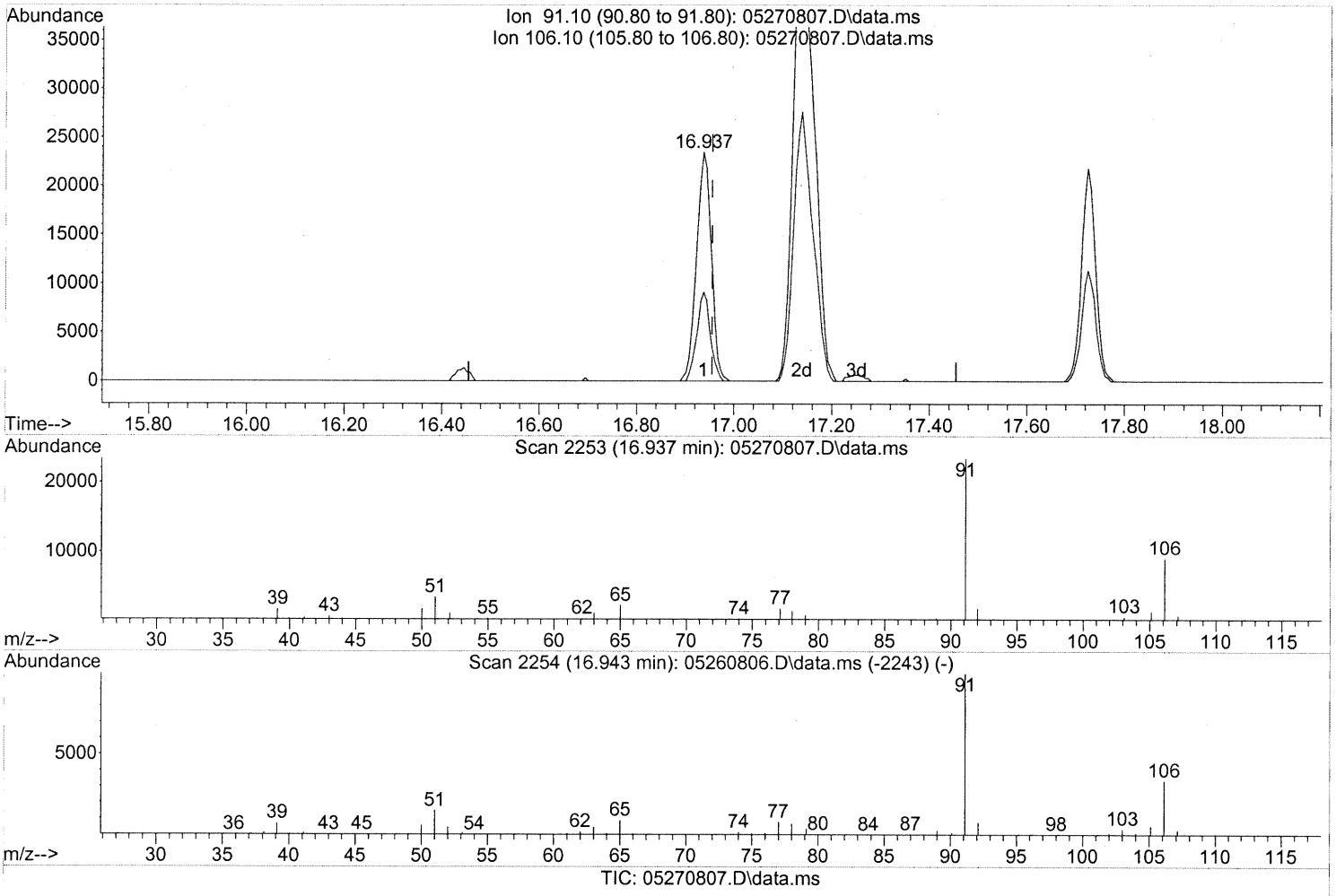
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.55ng

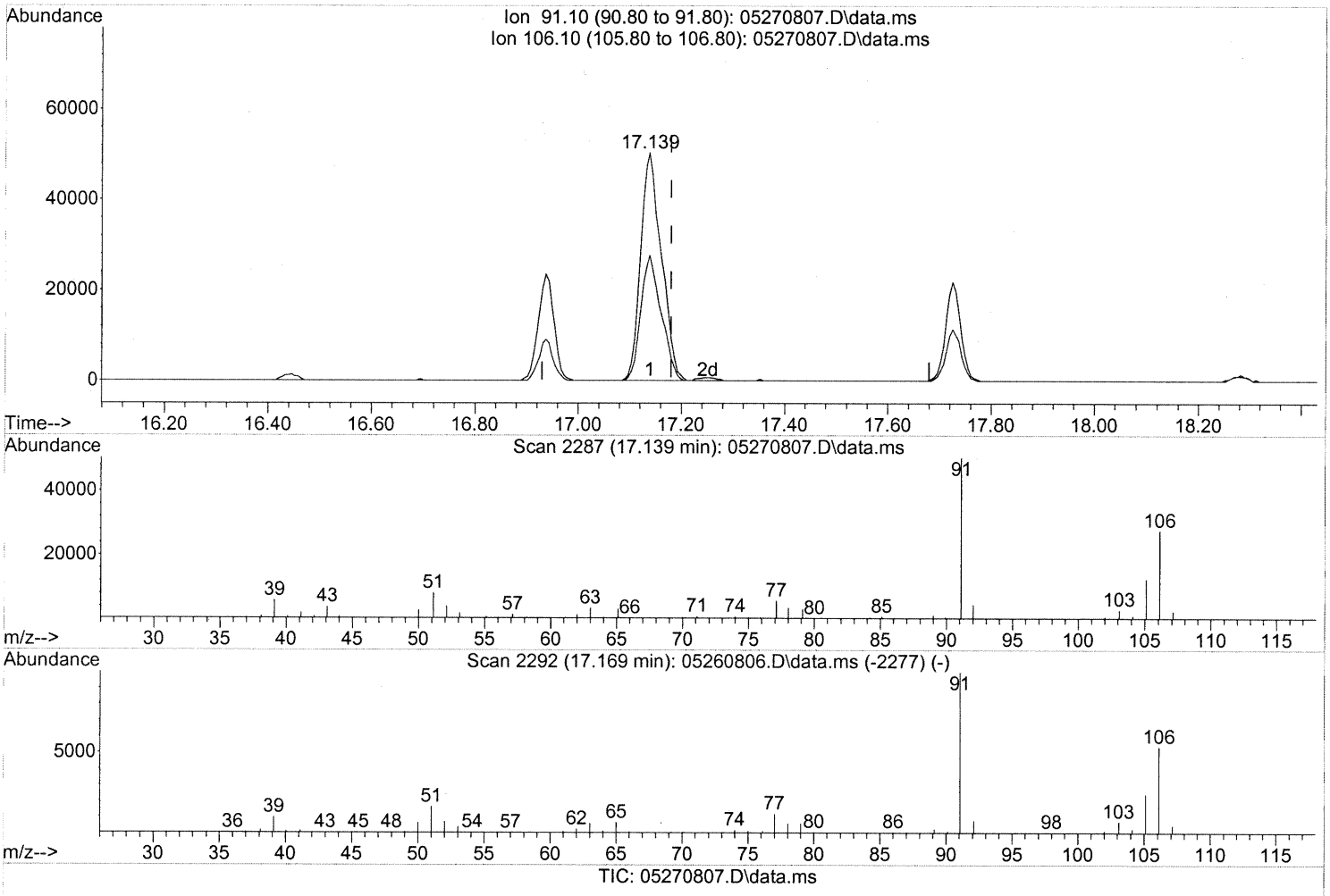
response 49706

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	35.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

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

17.139min (-0.042) 2.33ng

response 140210

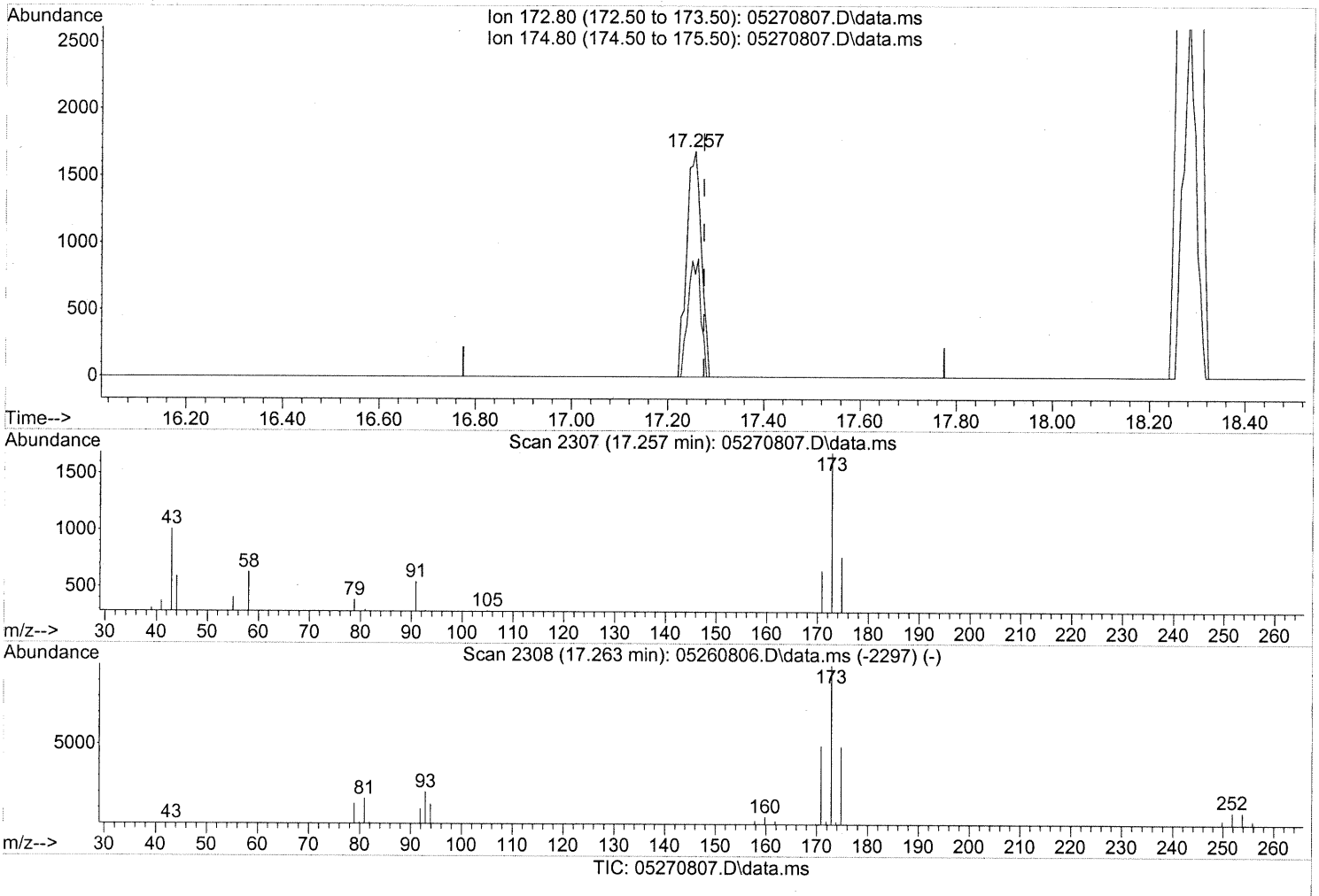
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.72
0.00	0.00	0.00
0.00	0.00	0.00

104

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(68) Bromoform (T)

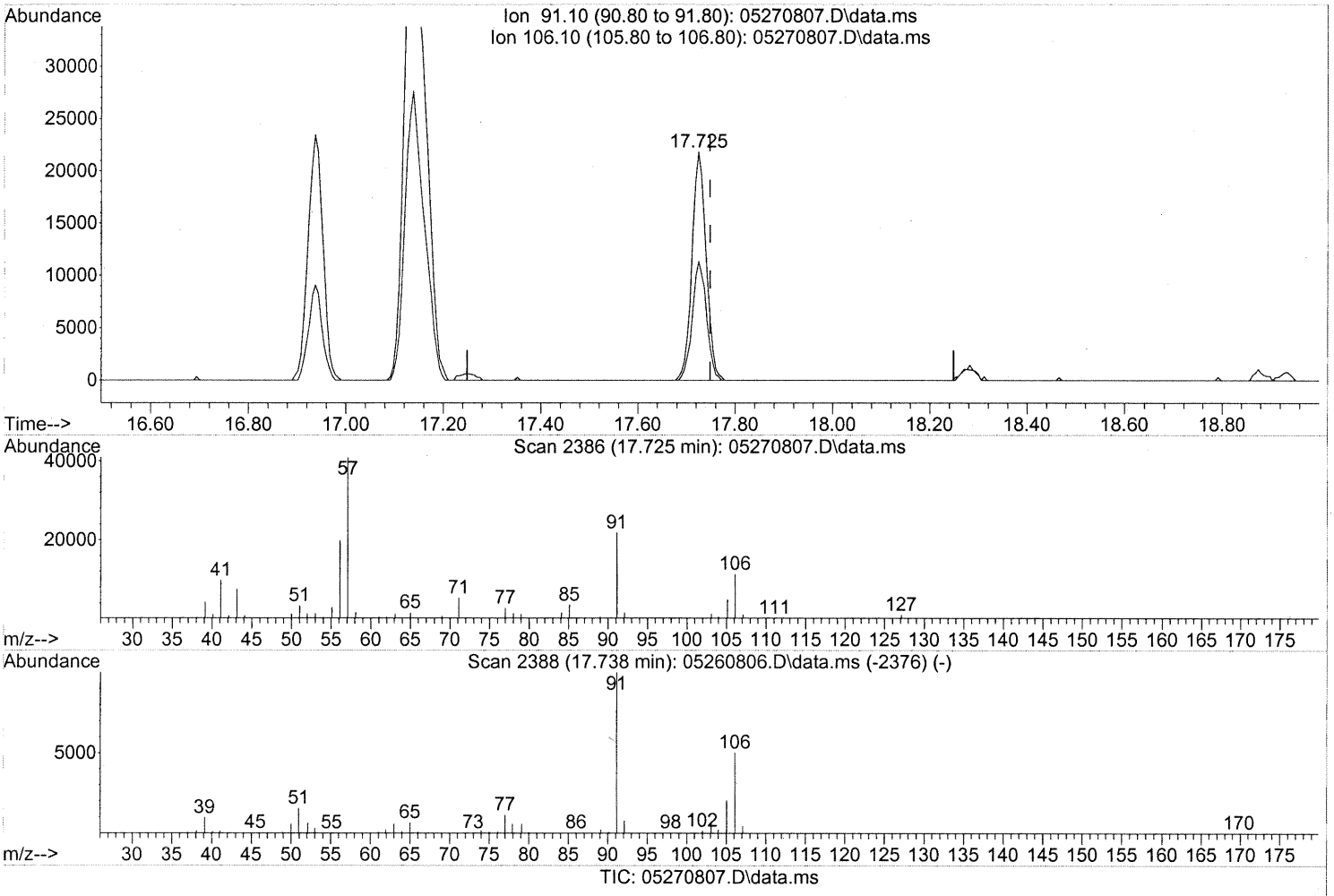
17.257min (-0.018) 0.26ng

response 3566

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	45.49
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(70) o-Xylene (T)

17.725min (-0.024) 0.69ng

response 44210

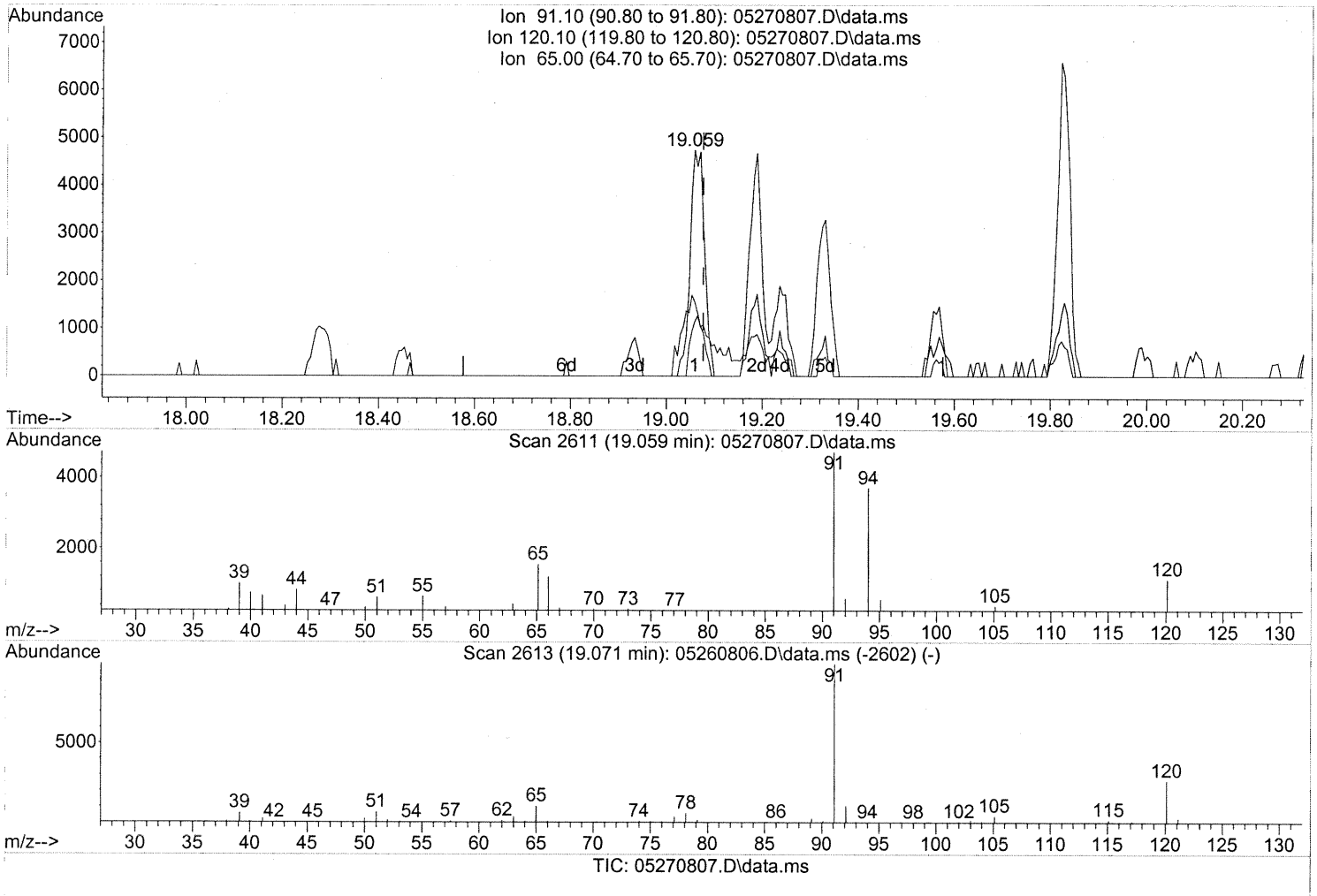
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	52.07
0.00	0.00	0.00
0.00	0.00	0.00

106

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(76) n-Propylbenzene (T)

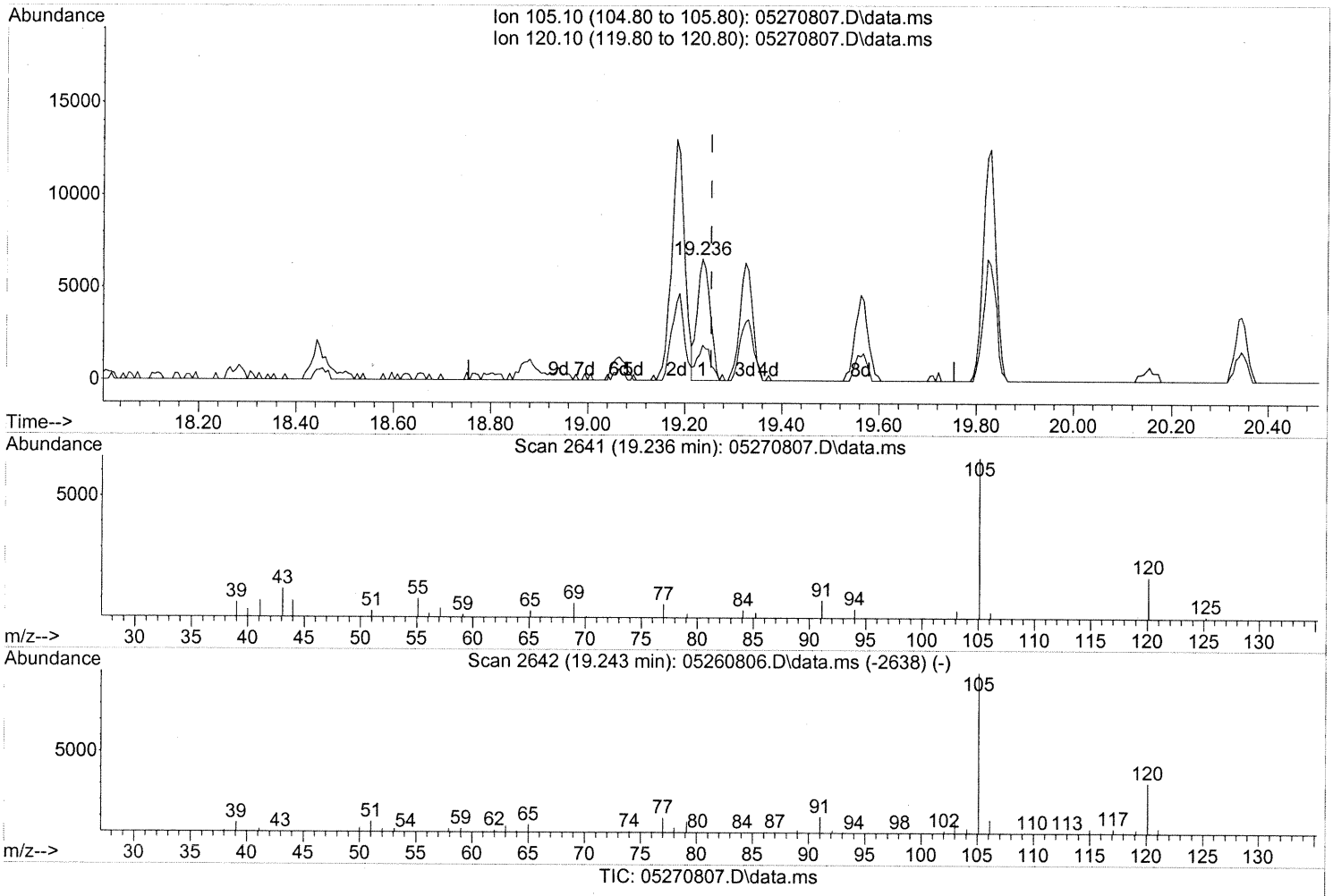
19.059min (-0.018) 0.09ng

response 9773

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	24.43
65.00	10.40	69.19#
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(78) 4-Ethyltoluene (T)

19.236min (-0.018) 0.13ng

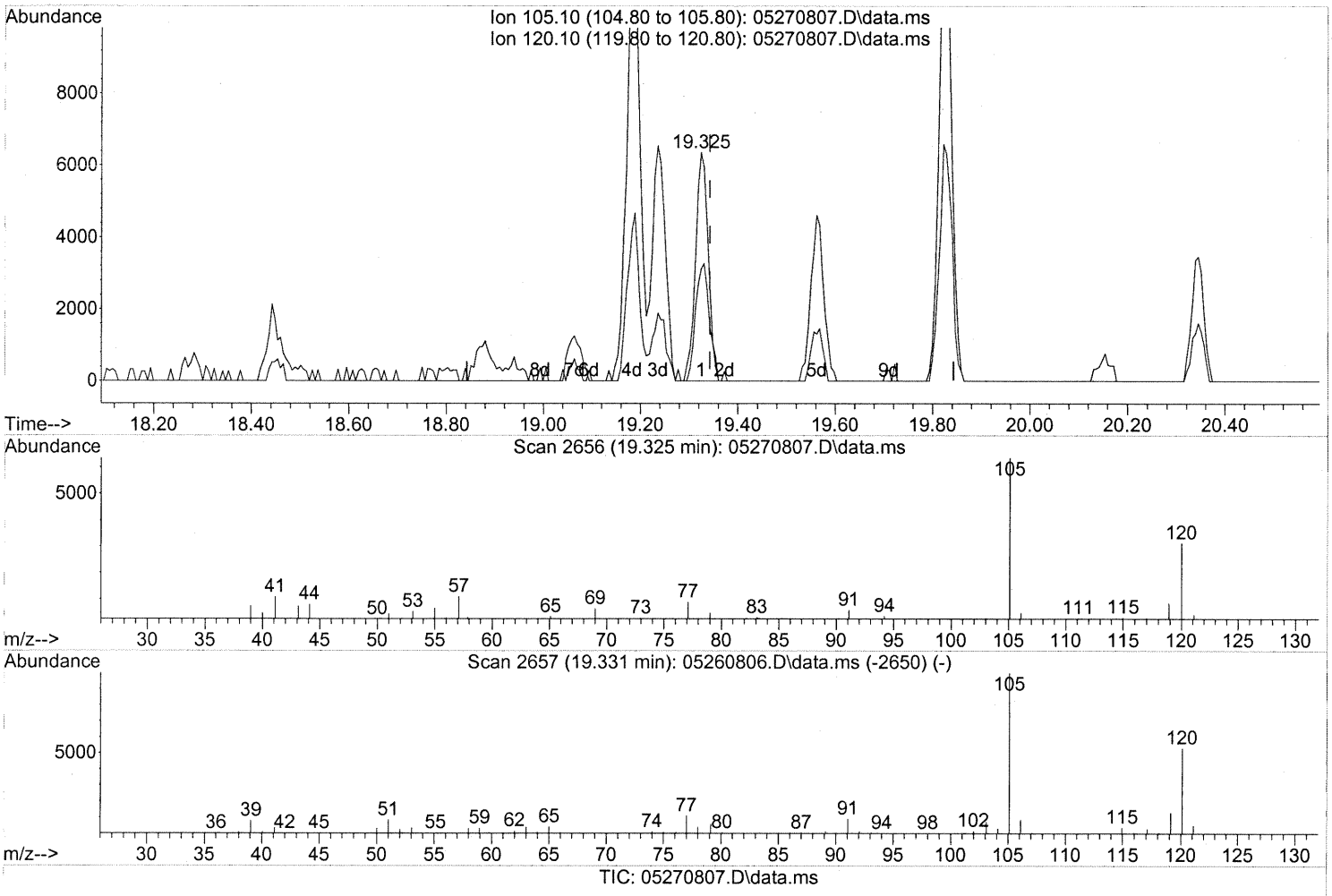
response 12328

Ion	Exp%	Act%
105.10	100	100
120.10	28.60	29.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

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

19.325min (-0.018) 0.14ng

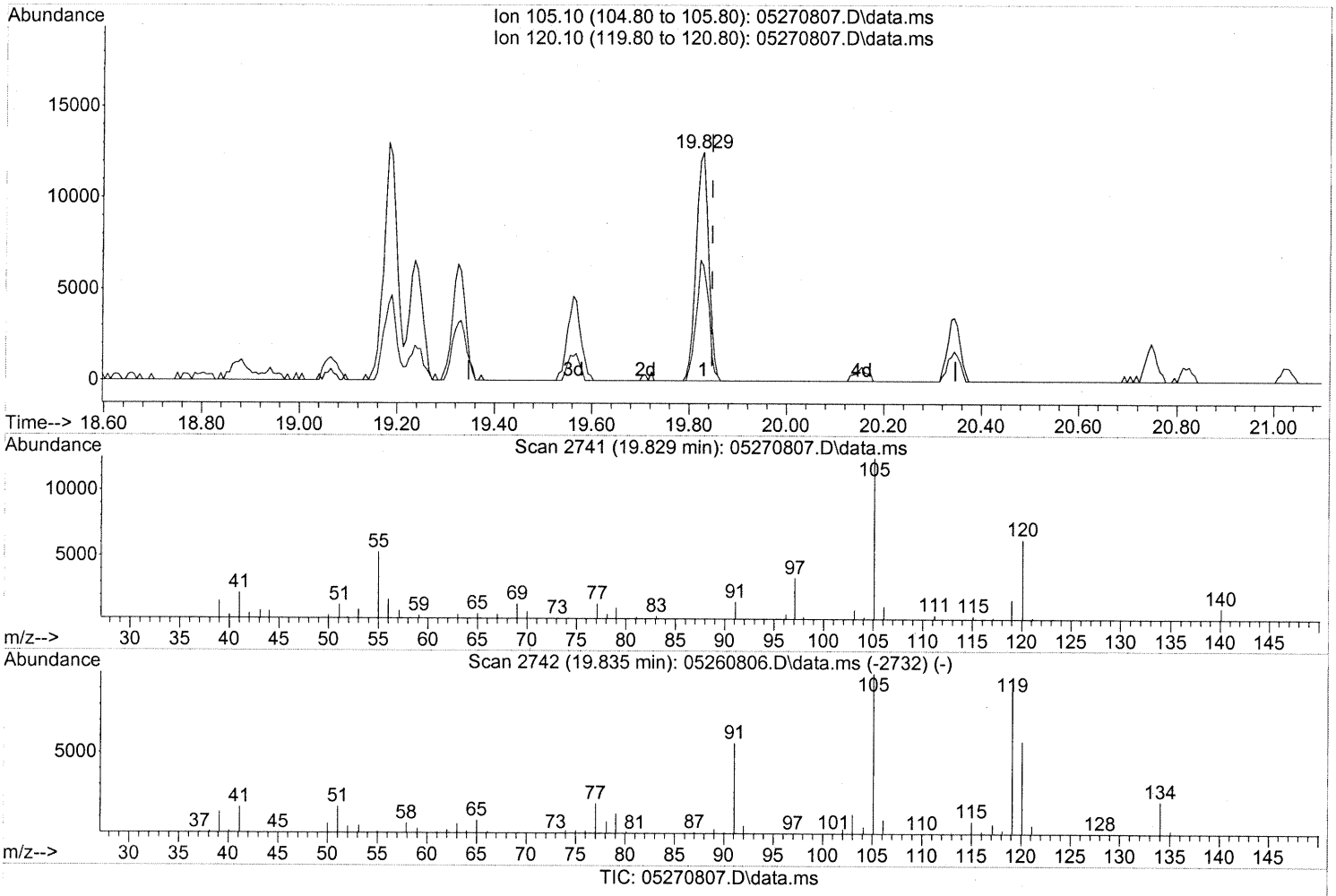
response 11689

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	54.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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

19.829min (-0.018) 0.27ng

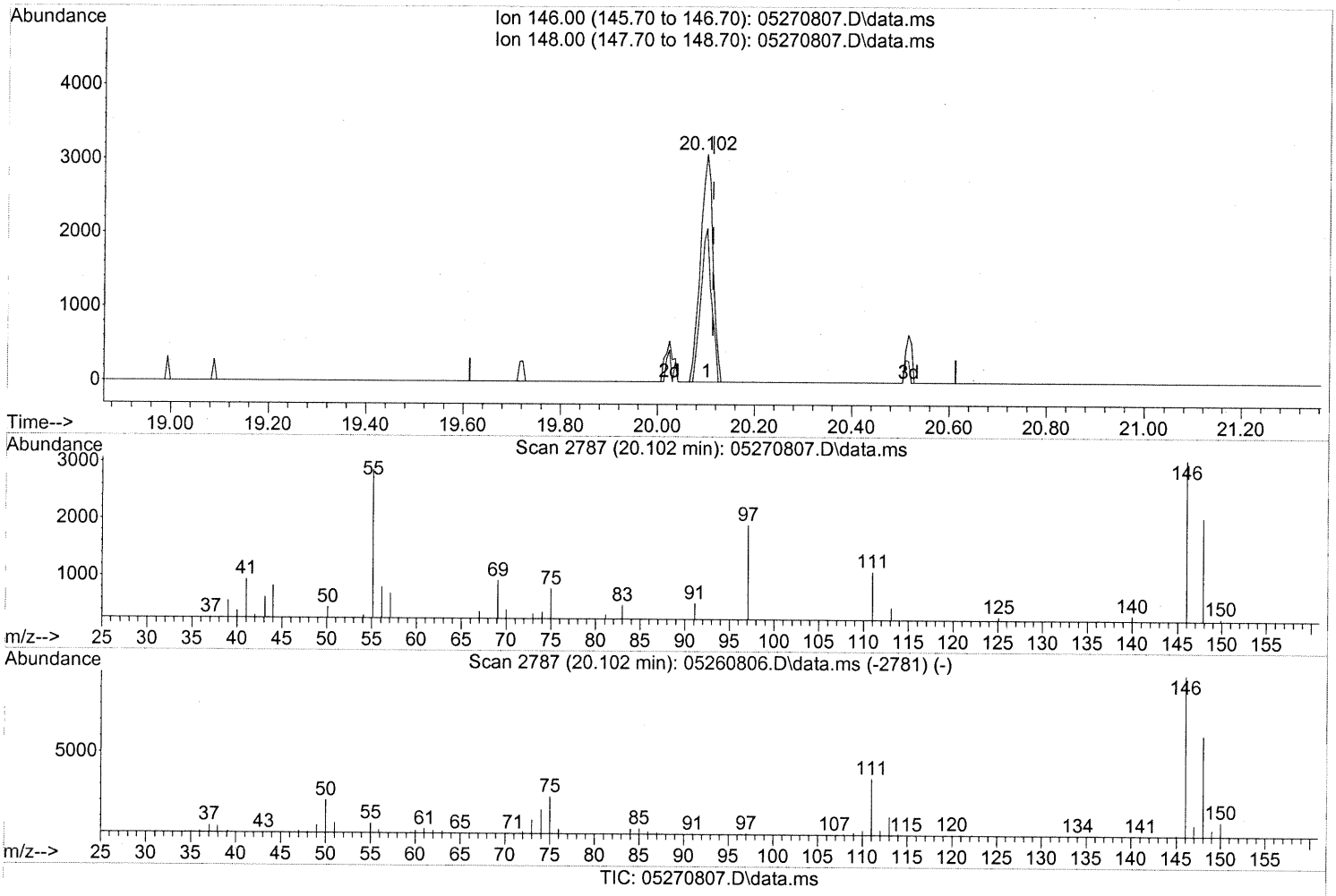
response 22708

Ion	Exp%	Act%
105.10	100	100
120.10	51.70	52.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:46:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270807.D\data.ms

(86) 1,4-Dichlorobenzene (T)

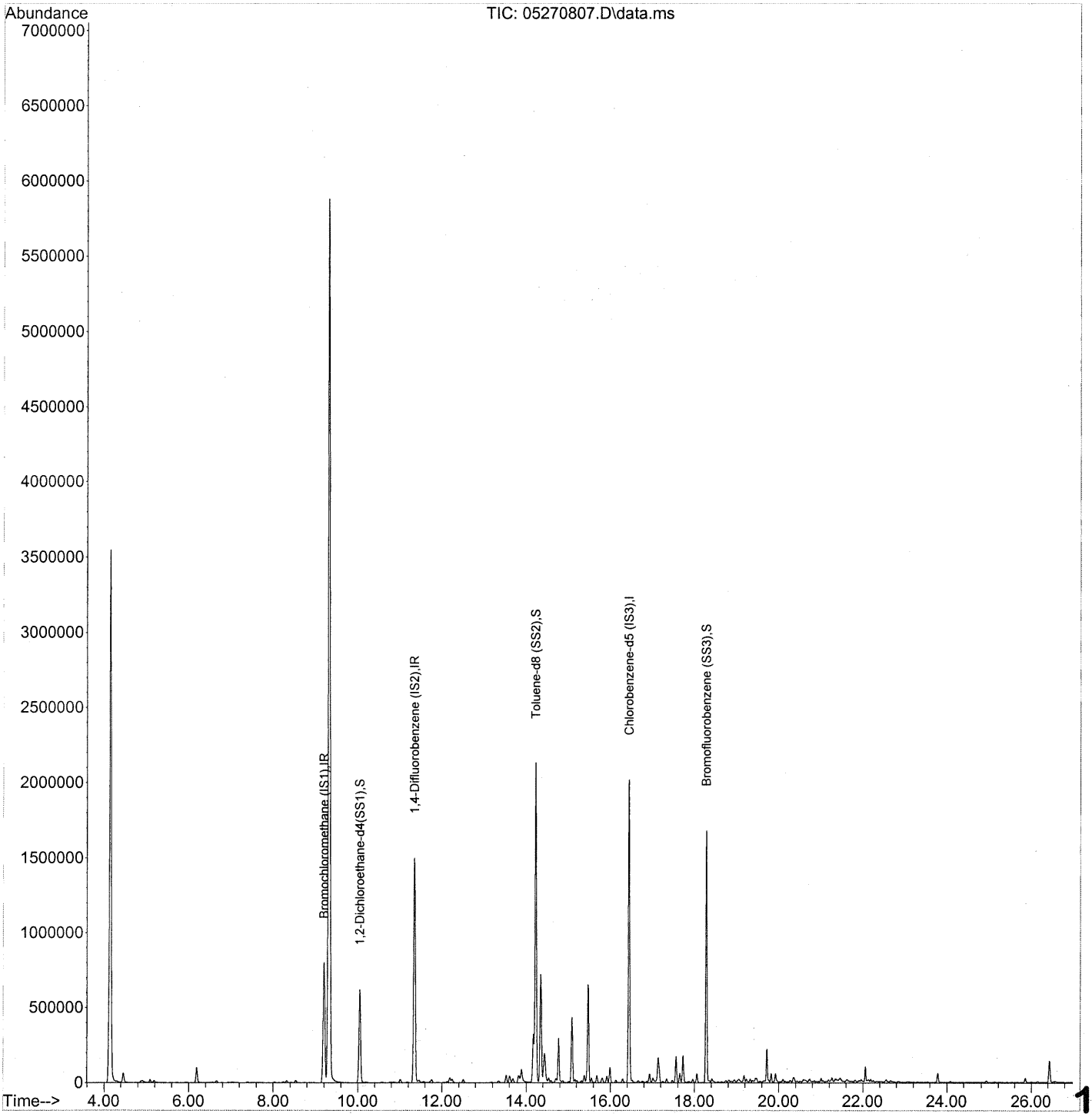
20.102min (-0.012) 0.11ng

response 5549

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	58.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:39:19 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270807.D
Acq On : 27 May 2008 16:33
Operator : WA
Sample : P0801507-001 (10ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 4 Sample Multiplier: 1

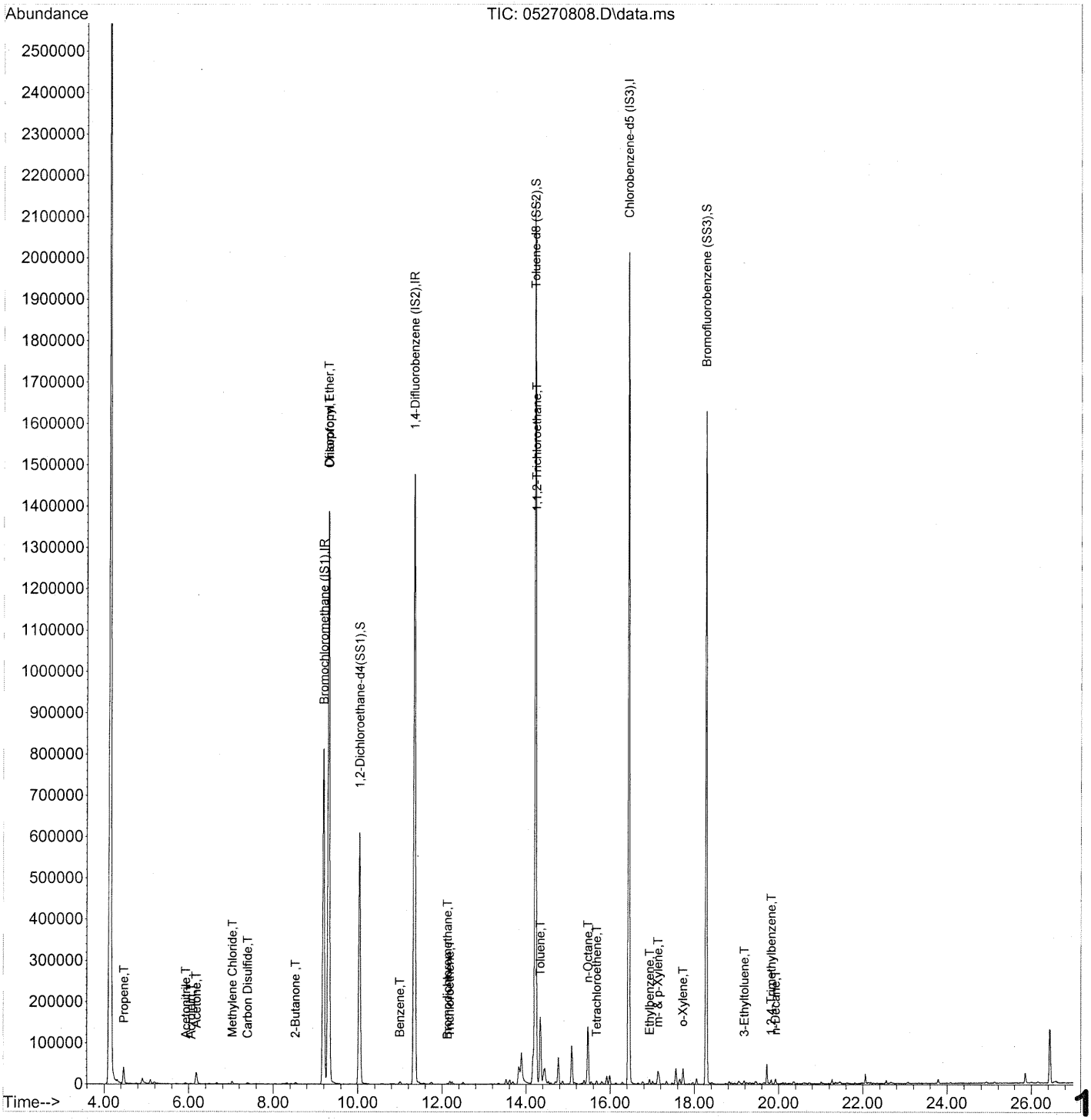
Quant Time: Jun 04 14:39:19 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	416586	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.34	114	1711385	25.000	ng	-0.04
4) Chlorobenzene-d5 (IS3)	16.45	82	684381	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	569524	23.909	ng	-0.05
Spiked Amount 25.000			Recovery =	95.64%		
5) Toluene-d8 (SS2)	14.22	98	1735852	24.602	ng	-0.02
Spiked Amount 25.000			Recovery =	98.40%		
6) Bromofluorobenzene (SS3)	18.28	174	603399	25.722	ng	-0.01
Spiked Amount 25.000			Recovery =	102.88%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	3370	N.D.		
8) n-Butylbenzene	20.84	91	1925	N.D.		

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

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 17:18
Operator : WA
Sample : P0801507-001 Dil (2ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 17:18
Operator : WA
Sample : P0801507-001 Dil (2ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	414826	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1697256	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	680501	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	572286	24.127	ng		-0.05
Spiked Amount 25.000			Recovery = 96.52%				
57) Toluene-d8 (SS2)	14.22	98	1725244	24.591	ng		-0.02
Spiked Amount 25.000			Recovery = 98.36%				
73) Bromofluorobenzene (SS3)	18.28	174	597896	25.633	ng		-0.01
Spiked Amount 25.000			Recovery = 102.52%				
Target Compounds							Qvalue
2) Propene	4.47	42	3435	0.107	ng	#	86
3) Dichlorodifluoromethane	0.00	85	0	N.D.			
4) Chloromethane	4.76	50	324	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	5.72	45	691	N.D.			
11) Acetonitrile	5.93	41	3648	0.058	ng	#	34
12) Acrolein	6.06	56	1167	0.074	ng		76
13) Acetone	6.18	58	15743	0.726	ng	#	71
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	6.39	45	679	N.D.			
16) Acrylonitrile	6.60	53	223	N.D.			
17) 1,1-Dichloroethene	6.94	96	107	N.D.			
18) tert-Butanol	6.98	59	316	N.D.			
19) Methylene Chloride	7.03	84	2530	0.151	ng	#	44
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	4933	0.073	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	849	0.075	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.31	87	158091	10.591	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	1032	N.D.			

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 17:18
Operator : WA
Sample : P0801507-001 Dil (2ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	1427223	58.304 ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.79	56	344	N.D.		
41) Benzene	11.00	78	6905	0.096 ng		89
42) Carbon Tetrachloride	11.17	117	422	N.D.		
43) Cyclohexane	11.33	84	897	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	12.13	83	1413	0.067 ng		80
47) Trichloroethene	12.18	130	3634	0.163 ng		91
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.24	57	5666	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	12.50	71	686	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.19	58	90	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.24	97	144690	8.313 ng	#	6
58) Toluene	14.34	91	49188	0.618 ng		99
59) 2-Hexanone	14.60	43	2749	N.D.		
60) Dibromochloromethane	14.83	129	1044	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.33	43	217	N.D.		
63) n-Octane	15.47	57	34222	1.422 ng		93
64) Tetrachloroethene	15.69	166	1499	0.064 ng		94
65) Chlorobenzene	16.49	112	90	N.D.		
66) Ethylbenzene	16.94	91	10681	0.118 ng		97
67) m- & p-Xylene	17.14	91	30673	0.512 ng		95
68) Bromoform	17.26	173	575	N.D.		
69) Styrene	17.58	104	473	N.D.		
70) o-Xylene	17.73	91	9308	0.145 ng		91
71) n-Nonane	17.96	43	2337	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.45	105	812	N.D.		
75) alpha-Pinene	18.93	93	202	N.D.		
76) n-Propylbenzene	19.07	91	2364	N.D.		
77) 3-Ethyltoluene	19.18	105	5474	0.053 ng		98
78) 4-Ethyltoluene	19.24	105	2487	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	2919	N.D.		

DA 6/2/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 17:18
Operator : WA
Sample : P0801507-001 Dil (2ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

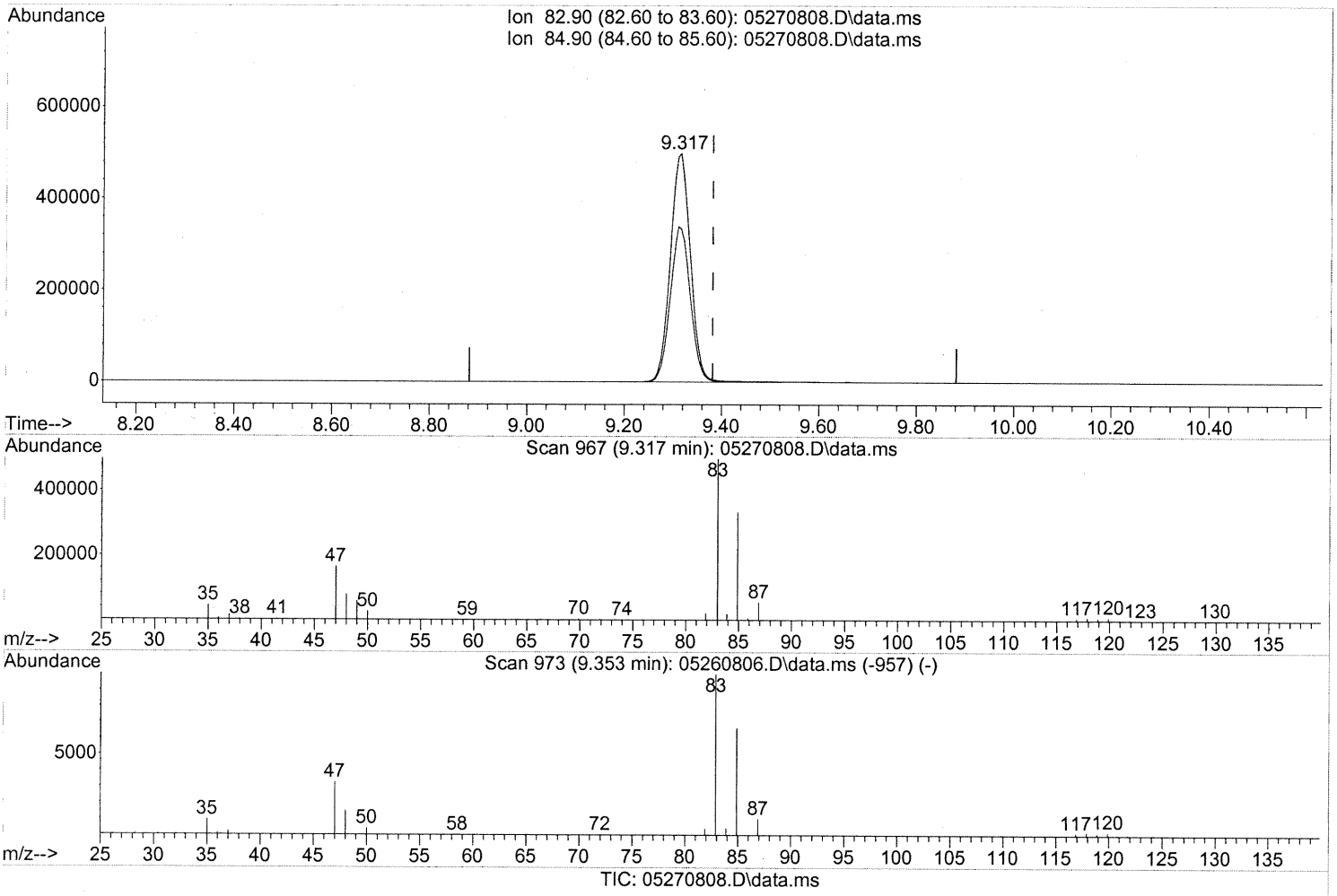
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	196	N.D.			
81) 2-Ethyltoluene	19.57	105	1740	N.D.			
82) 1,2,4-Trimethylbenzene	19.83	105	5013	0.060	ng		95
83) n-Decane	19.92	57	5538	0.094	ng	#	67
84) Benzyl Chloride	19.99	91	218	N.D.			
85) 1,3-Dichlorobenzene	20.03	146	230	N.D.			
86) 1,4-Dichlorobenzene	20.10	146	1308	N.D.			
87) sec-Butylbenzene	20.15	105	137	N.D.			
88) p-Isopropyltoluene	20.34	119	698	N.D.			
89) 1,2,3-Trimethylbenzene	20.34	105	1449	N.D.			
90) 1,2-Dichlorobenzene	20.52	146	128	N.D.			
91) d-Limonene	20.52	68	97	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.43	57	2821	N.D.			
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.70	128	3069	N.D.			
96) n-Dodecane	22.66	57	1131	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:\MS16\DATA\2008_05\27\
Data File : 05270808.D
Acq On : 27 May 2008 17:18
Operator : WA
Sample : P0801507-001 Dil (2ml)
Misc : ENSR SG77B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270808.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 58.30ng

response 1427223

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.19
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG30B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801507
CAS Sample ID: P0801507-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00705

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	31	3.1	ND	6.3	0.63	
74-87-3	Chloromethane	ND	6.2	3.1	ND	3.0	1.5	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	31	3.1	ND	4.5	0.45	
75-01-4	Vinyl Chloride	ND	6.2	3.1	ND	2.4	1.2	
74-83-9	Bromomethane	ND	6.2	3.1	ND	1.6	0.80	
75-00-3	Chloroethane	ND	6.2	3.1	ND	2.4	1.2	
64-17-5	Ethanol	ND	310	3.1	ND	170	1.7	
67-64-1	**Acetone**	**49**	310	4.6	**21**	130	1.9	**J, B**
75-69-4	Trichlorofluoromethane	ND	6.2	3.1	ND	1.1	0.56	
107-13-1	Acrylonitrile	ND	31	4.4	ND	14	2.0	
75-35-4	1,1-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	31	4.6	ND	10	1.5	
75-09-2	Methylene Chloride	ND	31	3.1	ND	9.0	0.90	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	6.2	3.1	ND	2.0	1.0	
76-13-1	Trichlorotrifluoroethane	ND	6.2	3.5	ND	0.81	0.46	
75-15-0	Carbon Disulfide	ND	31	7.5	ND	10	2.4	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
75-34-3	1,1-Dichloroethane	ND	6.2	3.1	ND	1.5	0.77	
1634-04-4	Methyl tert-Butyl Ether	ND	6.2	3.1	ND	1.7	0.87	
108-05-4	Vinyl Acetate	ND	310	10	ND	89	2.8	
78-93-3	**2-Butanone (MEK)**	**14**	31	3.1	**4.8**	11	1.1	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	6.2	3.1	ND	1.6	0.79	
108-20-3	Diisopropyl Ether	ND	31	3.7	ND	7.5	0.88	
67-66-3	**Chloroform**	**21,000**	6.2	3.7	**4,200**	1.3	0.75	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG30B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-002

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00705

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	31	3.2	ND	7.5	0.76	
107-06-2	1,2-Dichloroethane	ND	6.2	3.1	ND	1.5	0.77	
71-55-6	1,1,1-Trichloroethane	ND	6.2	3.1	ND	1.1	0.57	
71-43-2	**Benzene**	**15**	6.2	3.1	**4.6**	2.0	0.98	**B**
56-23-5	**Carbon Tetrachloride**	**700**	6.2	3.1	**110**	0.99	0.50	
994-05-8	tert-Amyl Methyl Ether	ND	31	3.1	ND	7.5	0.75	
78-87-5	1,2-Dichloropropane	ND	6.2	3.1	ND	1.4	0.68	
75-27-4	**Bromodichloromethane**	**5.3**	6.2	3.1	**0.79**	0.93	0.47	**J**
79-01-6	**Trichloroethene**	**6.9**	6.2	3.1	**1.3**	1.2	0.58	
123-91-1	1,4-Dioxane	ND	31	3.8	ND	8.7	1.1	
80-62-6	Methyl Methacrylate	ND	31	4.7	ND	7.6	1.1	
142-82-5	**n-Heptane**	**10**	31	4.0	**2.5**	7.6	0.97	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	31	3.2	ND	6.9	0.72	
108-10-1	4-Methyl-2-pentanone	ND	31	3.5	ND	7.6	0.85	
10061-02-6	trans-1,3-Dichloropropene	ND	31	3.9	ND	6.9	0.87	
79-00-5	1,1,2-Trichloroethane	ND	6.2	3.1	ND	1.1	0.57	
108-88-3	**Toluene**	**60**	31	3.1	**16**	8.3	0.83	
591-78-6	2-Hexanone	ND	31	4.7	ND	7.6	1.2	
124-48-1	Dibromochloromethane	ND	6.2	4.2	ND	0.73	0.50	
106-93-4	1,2-Dibromoethane	ND	6.2	3.4	ND	0.81	0.44	
111-65-9	**n-Octane**	**170**	31	3.1	**35**	6.7	0.67	
127-18-4	**Tetrachloroethene**	**16**	6.2	3.1	**2.4**	0.92	0.46	
108-90-7	Chlorobenzene	ND	6.2	3.2	ND	1.4	0.69	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG30B-05** CAS Sample ID: P0801507-002
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/19/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.025 Liter(s)
Test Notes: 0.0020 Liter(s)
Container ID: SC00705

Initial Pressure (psig): -3.0 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.56

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**10**	31	3.9	**2.4**	7.2	0.89	**J**
179601-23-1	**m,p-Xylenes**	**45**	31	8.1	**10**	7.2	1.9	
75-25-2	Bromoform	ND	31	4.7	ND	3.0	0.46	
100-42-5	Styrene	ND	31	4.7	ND	7.3	1.1	
95-47-6	**o-Xylene**	**14**	31	3.9	**3.3**	7.2	0.91	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	4.0	ND	0.91	0.58	
98-82-8	Cumene	ND	31	3.5	ND	6.3	0.71	
103-65-1	n-Propylbenzene	ND	31	3.2	ND	6.3	0.66	
622-96-8	4-Ethyltoluene	ND	31	3.6	ND	6.3	0.72	
108-67-8	1,3,5-Trimethylbenzene	ND	31	3.7	ND	6.3	0.76	
98-83-9	alpha-Methylstyrene	ND	31	4.6	ND	6.5	0.94	
95-63-6	1,2,4-Trimethylbenzene	ND	31	4.3	ND	6.3	0.88	
100-44-7	Benzyl Chloride	ND	6.2	5.4	ND	1.2	1.0	
541-73-1	1,3-Dichlorobenzene	ND	6.2	3.9	ND	1.0	0.64	
106-46-7	**1,4-Dichlorobenzene**	**28**	6.2	3.5	**4.6**	1.0	0.58	
135-98-8	sec-Butylbenzene	ND	31	3.6	ND	5.7	0.66	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	31	4.1	ND	5.7	0.74	
95-50-1	1,2-Dichlorobenzene	ND	6.2	4.1	ND	1.0	0.69	
96-12-8	1,2-Dibromo-3-chloropropane	ND	31	4.7	ND	3.2	0.49	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	4.7	ND	0.84	0.64	
91-20-3	Naphthalene	ND	12	4.6	ND	2.4	0.88	
87-68-3	Hexachlorobutadiene	ND	6.2	5.6	ND	0.59	0.53	
98-06-6	tert-Butylbenzene	ND	12	3.1	ND	2.3	0.57	
104-51-8	n-Butylbenzene	ND	12	3.1	ND	2.3	0.57	

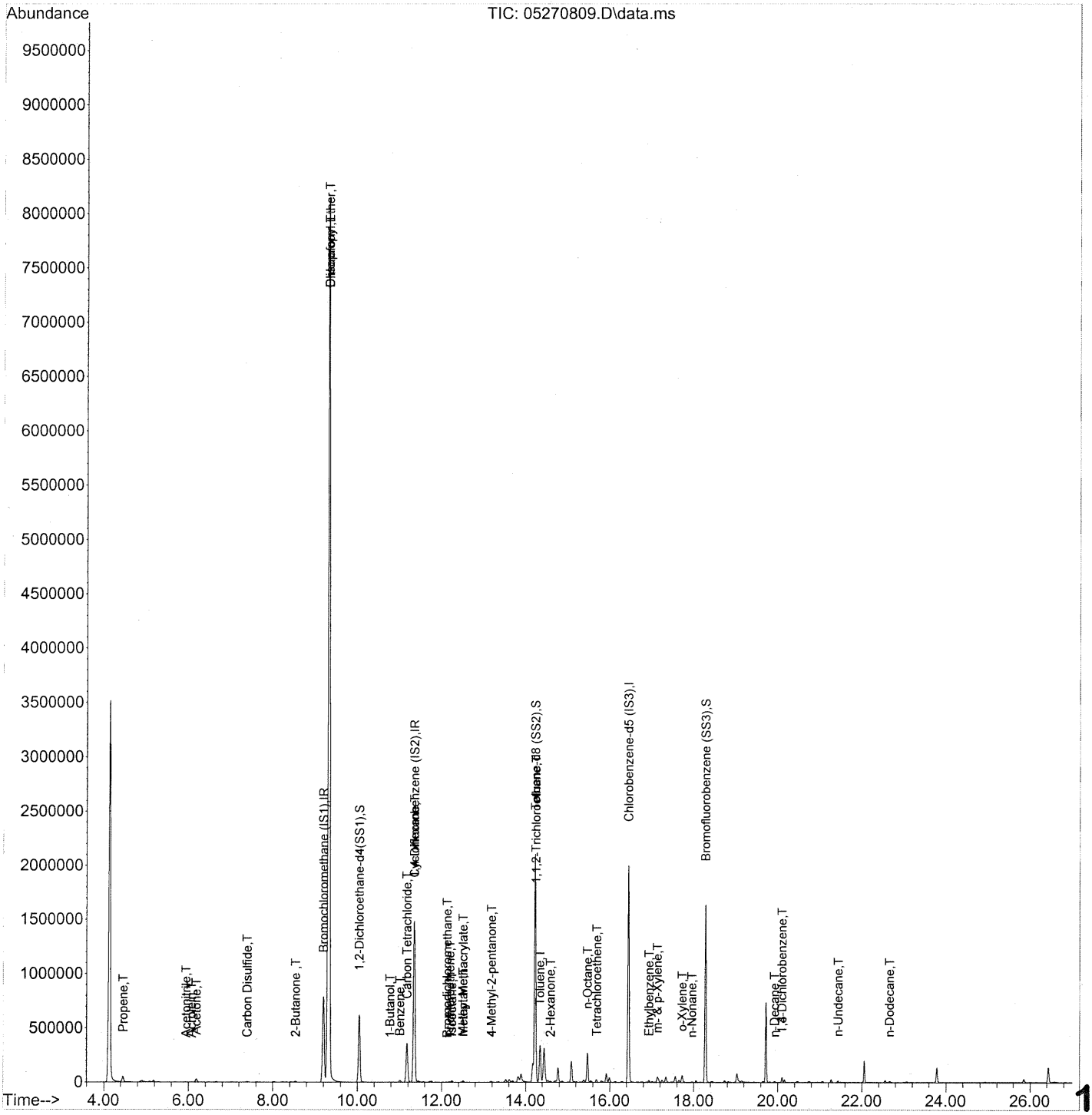
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CG Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (~~Not~~ Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	407143	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1685075	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	671836	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	572018	24.571	ng		-0.05
Spiked Amount 25.000			Recovery =	98.28%			
57) Toluene-d8 (SS2)	14.23	98	1707712	24.655	ng		-0.02
Spiked Amount 25.000			Recovery =	98.64%			
73) Bromofluorobenzene (SS3)	18.28	174	594120	25.799	ng		-0.01
Spiked Amount 25.000			Recovery =	103.20%			
Target Compounds							Qvalue
2) Propene	4.46	42	3000	0.095	ng	#	48
3) Dichlorodifluoromethane	4.55	85	1153	N.D.			
4) Chloromethane	4.75	50	89	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	5.82	45	98	N.D.			
11) Acetonitrile	5.95	41	3503	0.057	ng	#	34
12) Acrolein	6.08	56	1247	0.081	ng		98
13) Acetone	6.19	58	16632	0.782	ng	#	60
14) Trichlorofluoromethane	6.33	101	1003	N.D.			
15) Isopropanol	6.44	45	277	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.96	59	142	N.D.			
19) Methylene Chloride	7.03	84	629	N.D.			
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	7318	~~0.111 ng~~	<MDL		85
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	8.24	86	96	N.D.			
27) 2-Butanone	8.54	72	2507	0.225 ng		#	17
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	987680	~~67.415 ng~~	NR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	2035	N.D.			

123

JDH 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	9132180	~~380.100 ng~~ sat dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	10.05	62	180	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	10.78	56	2868	0.103 ng	#	72
41) Benzene	11.01	78	16813	0.237 ng		99
42) Carbon Tetrachloride	11.18	117	326326	11.198 ng		99
43) Cyclohexane	11.35	84	1712	0.062 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	12.13	83	1768	0.085 ng		99
47) Trichloroethene	12.20	130	2439	0.110 ng		94
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.25	57	15579	0.137 ng		96
50) Methyl Methacrylate	12.51	100	1015	~~0.133 ng~~ NR	#	1
51) n-Heptane	12.51	71	2794	0.165 ng	#	57
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.19	58	2946	~~0.119 ng~~ NR	#	54
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.24	97	146325	~~8.468 ng~~ NR	#	7
58) Toluene	14.34	91	75596	0.962 ng		99
59) 2-Hexanone	14.59	43	6628	~~0.089 ng~~ NR	#	59
60) Dibromochloromethane	14.83	129	187	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.31	43	641	N.D.		
63) n-Octane	15.47	57	62834	2.645 ng		96
64) Tetrachloroethene	15.70	166	5955	0.256 ng		99
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	16.94	91	14646	0.164 ng		92
67) m- & p-Xylene	17.14	91	42389	0.716 ng		93
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.59	104	659	N.D.		
70) o-Xylene	17.73	91	14349	0.227 ng		94
71) n-Nonane	17.96	43	4798	0.077 ng		77
72) 1,1,2,2-Tetrachloroethane	17.58	83	98	N.D.		
74) Cumene	18.45	105	2093	N.D.		
75) alpha-Pinene	18.92	93	93	N.D.		
76) n-Propylbenzene	19.06	91	1252	N.D.		
77) 3-Ethyltoluene	19.18	105	2679	N.D.		
78) 4-Ethyltoluene	19.24	105	1835	N.D.		
79) 1,3,5-Trimethylbenzene	19.34	105	1070	N.D.		

124

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

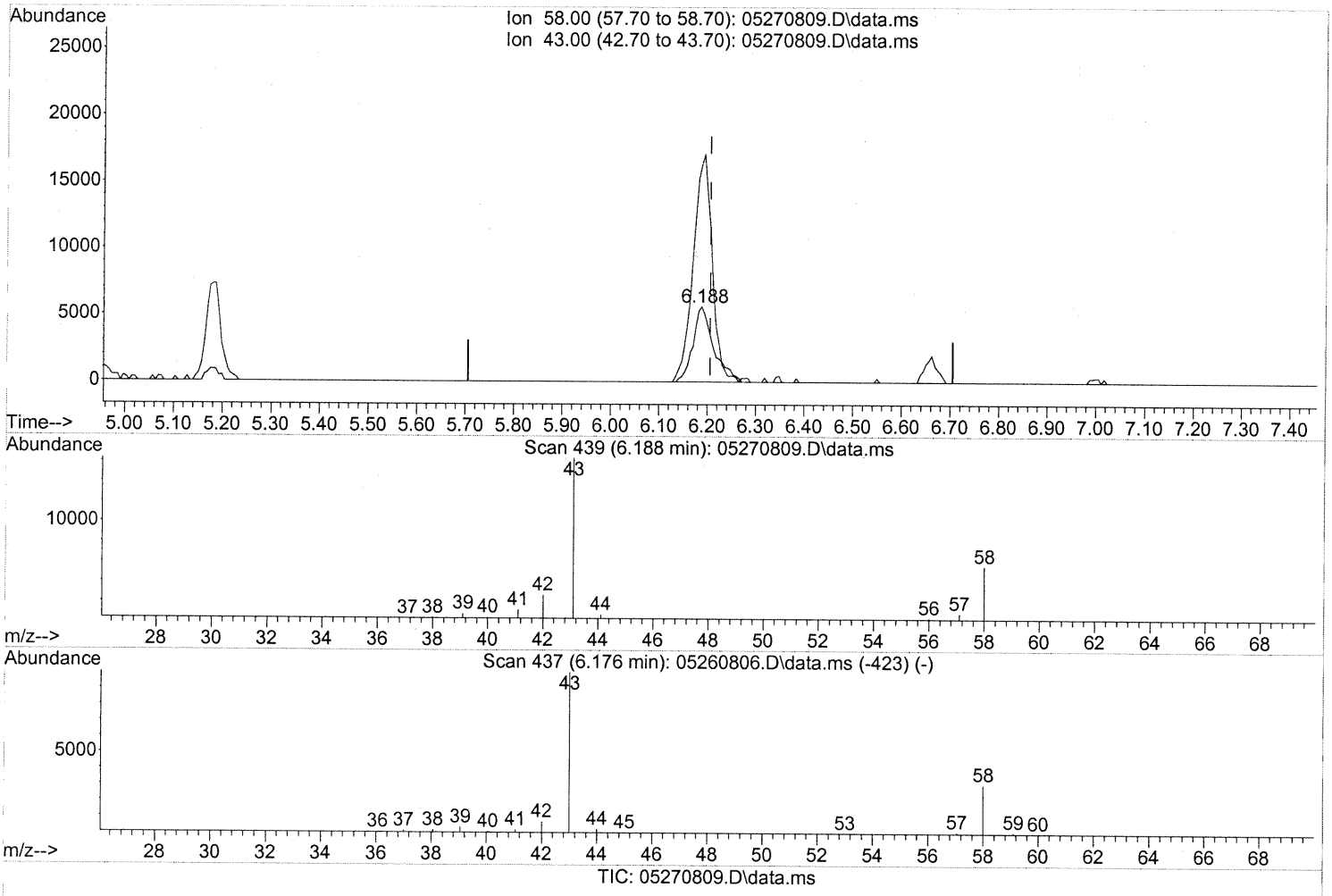
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	736	N.D.			
81) 2-Ethyltoluene	19.57	105	1194	N.D.			
82) 1,2,4-Trimethylbenzene	19.83	105	3194	N.D.			
83) n-Decane	19.92	57	4504	0.078	ng		74
84) Benzyl Chloride	19.82	91	331	N.D.			
85) 1,3-Dichlorobenzene	20.10	146	22545	~~0.434~~	ng	NR	96
86) 1,4-Dichlorobenzene	20.10	146	22545	0.447	ng		97
87) sec-Butylbenzene	20.34	105	1215	N.D.			
88) p-Isopropyltoluene	20.34	119	498	N.D.			
89) 1,2,3-Trimethylbenzene	20.34	105	1215	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	21.44	57	6745	0.111	ng	#	72
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.70	128	3685	N.D.			
96) n-Dodecane	22.66	57	4433	0.075	ng	#	71
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:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 0.78ng

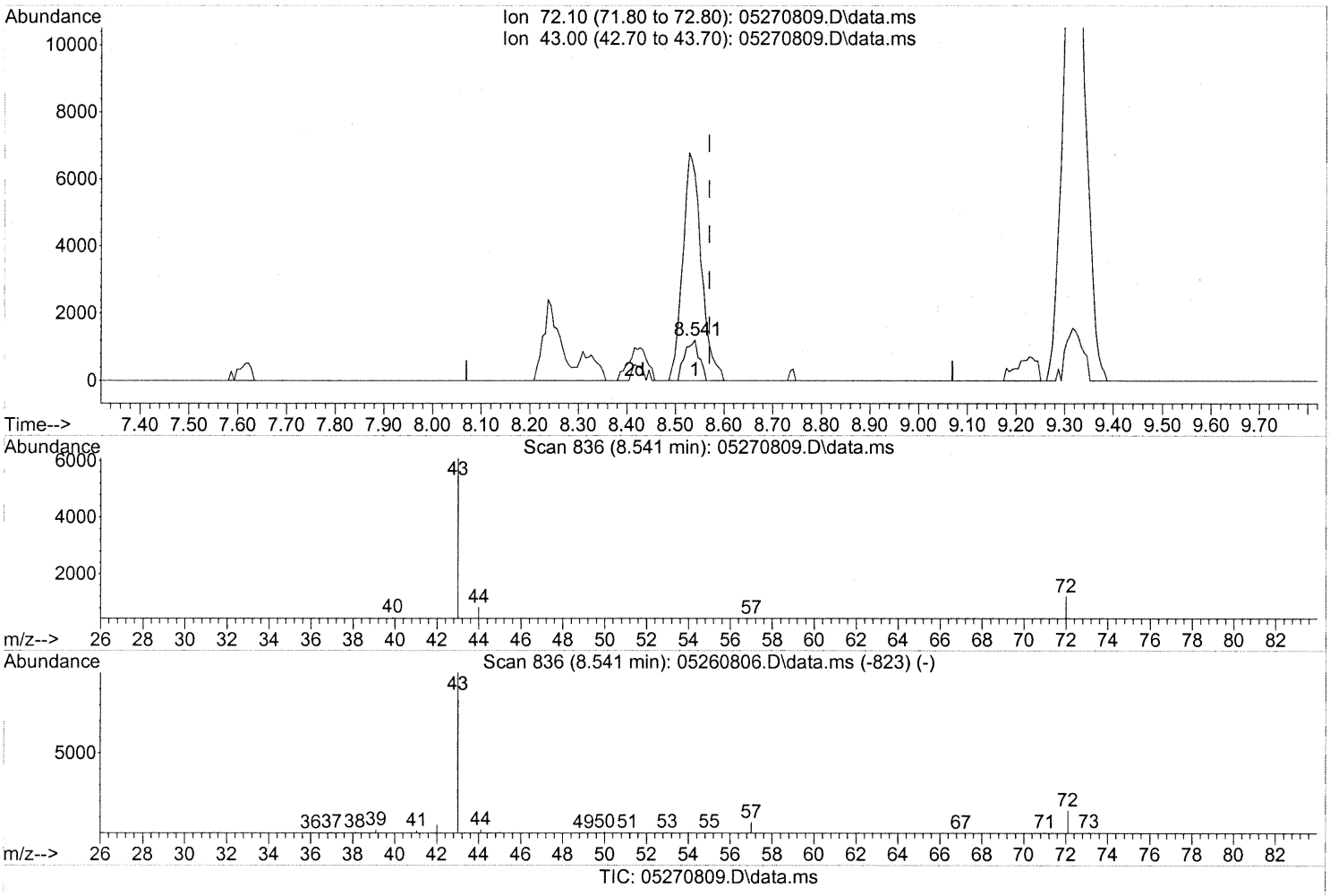
response 16632

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	277.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(27) 2-Butanone (T)

8.541min (-0.030) 0.23ng

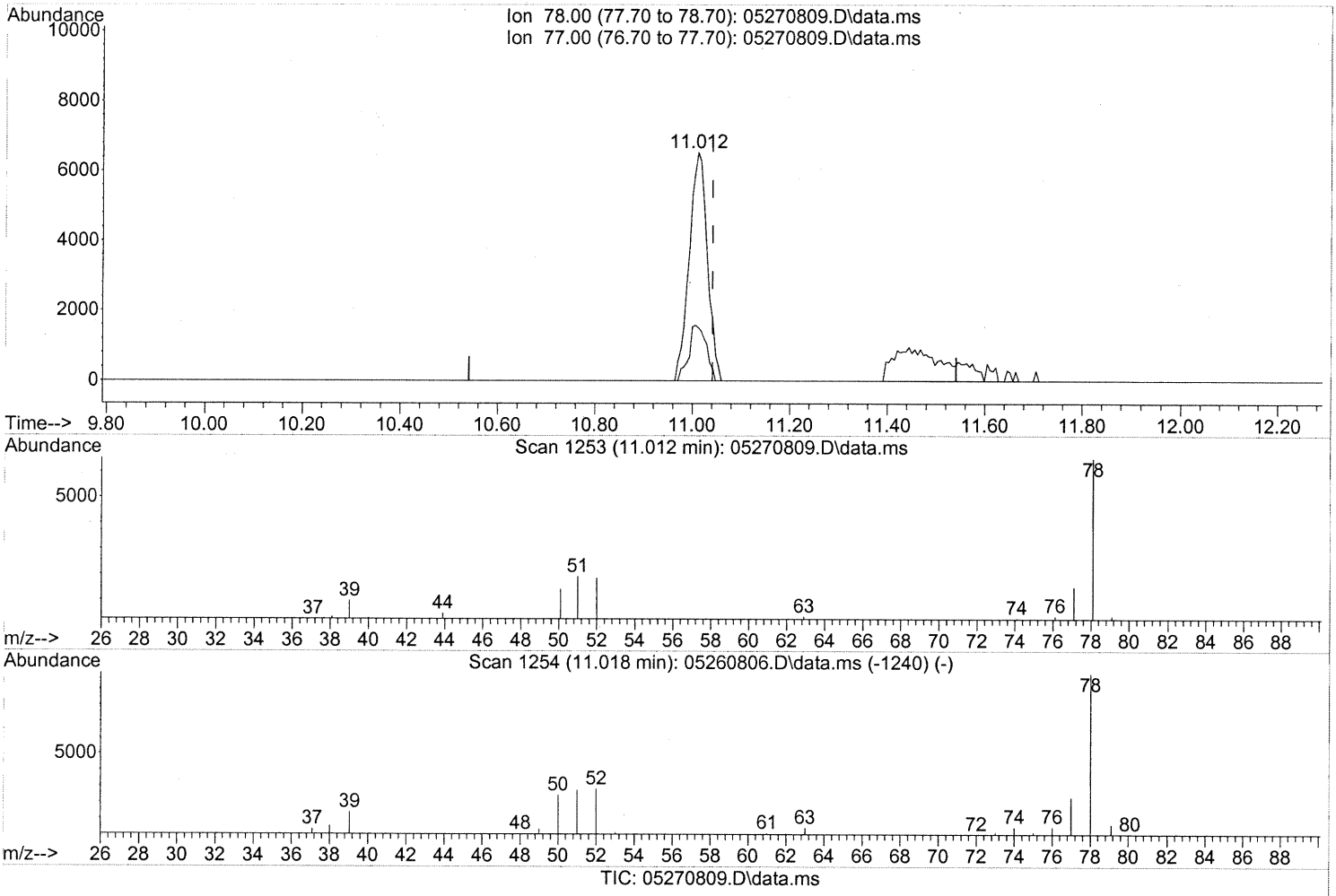
response 2507

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	718.99#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.012min (-0.030) 0.24ng

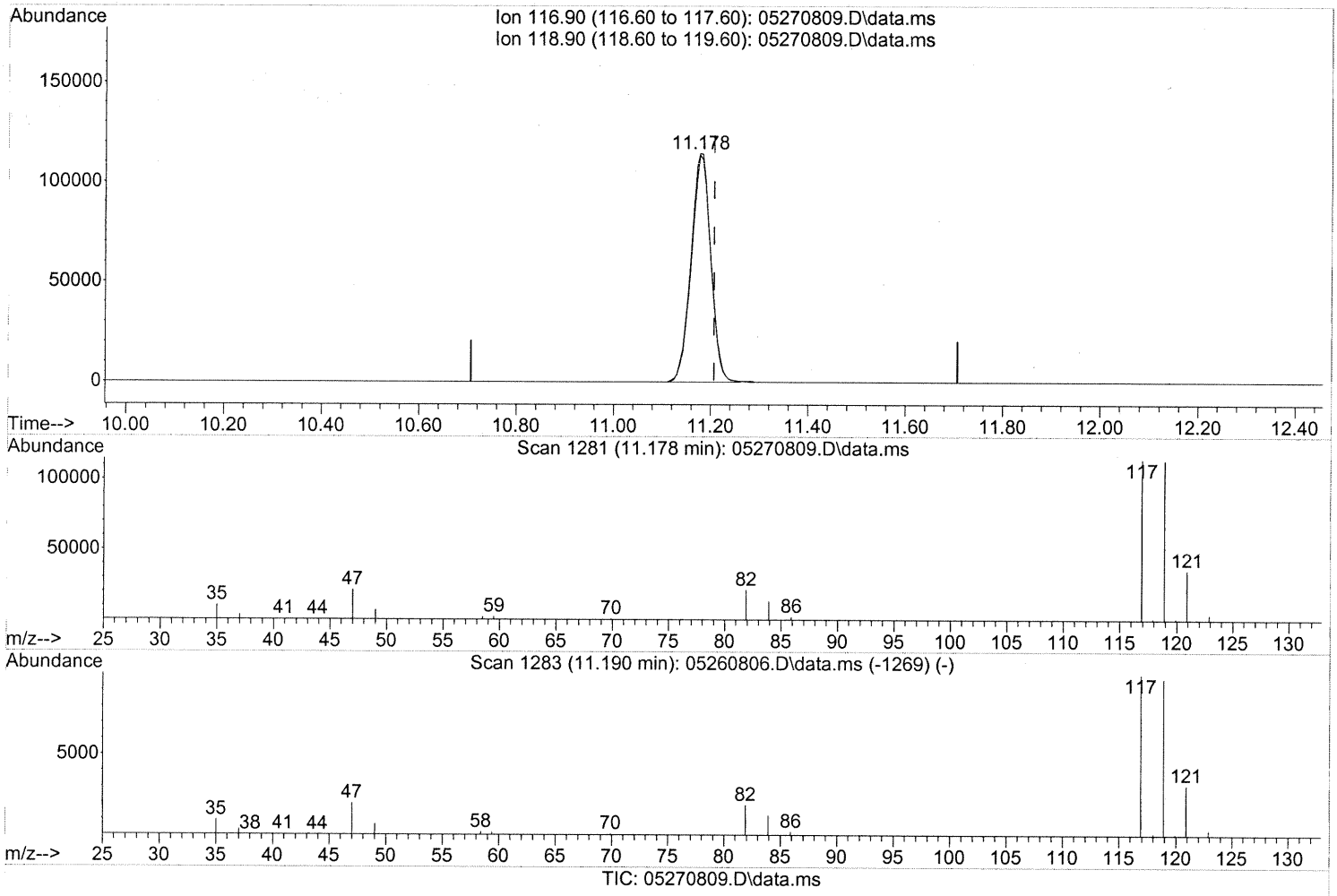
response 16813

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.24
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 11.20ng

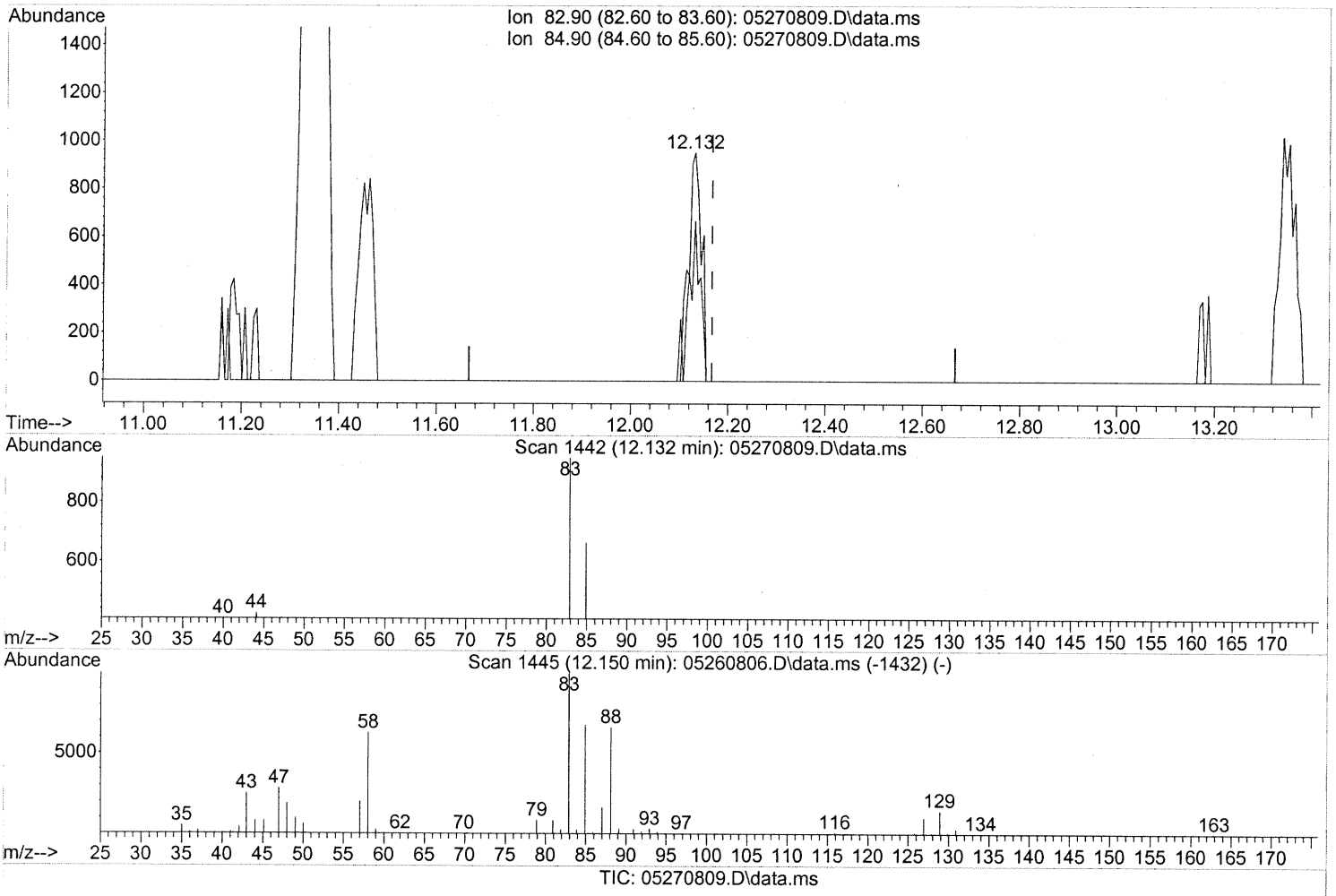
response 326326

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(46) Bromodichloromethane (T)

12.132min (-0.036) 0.08ng

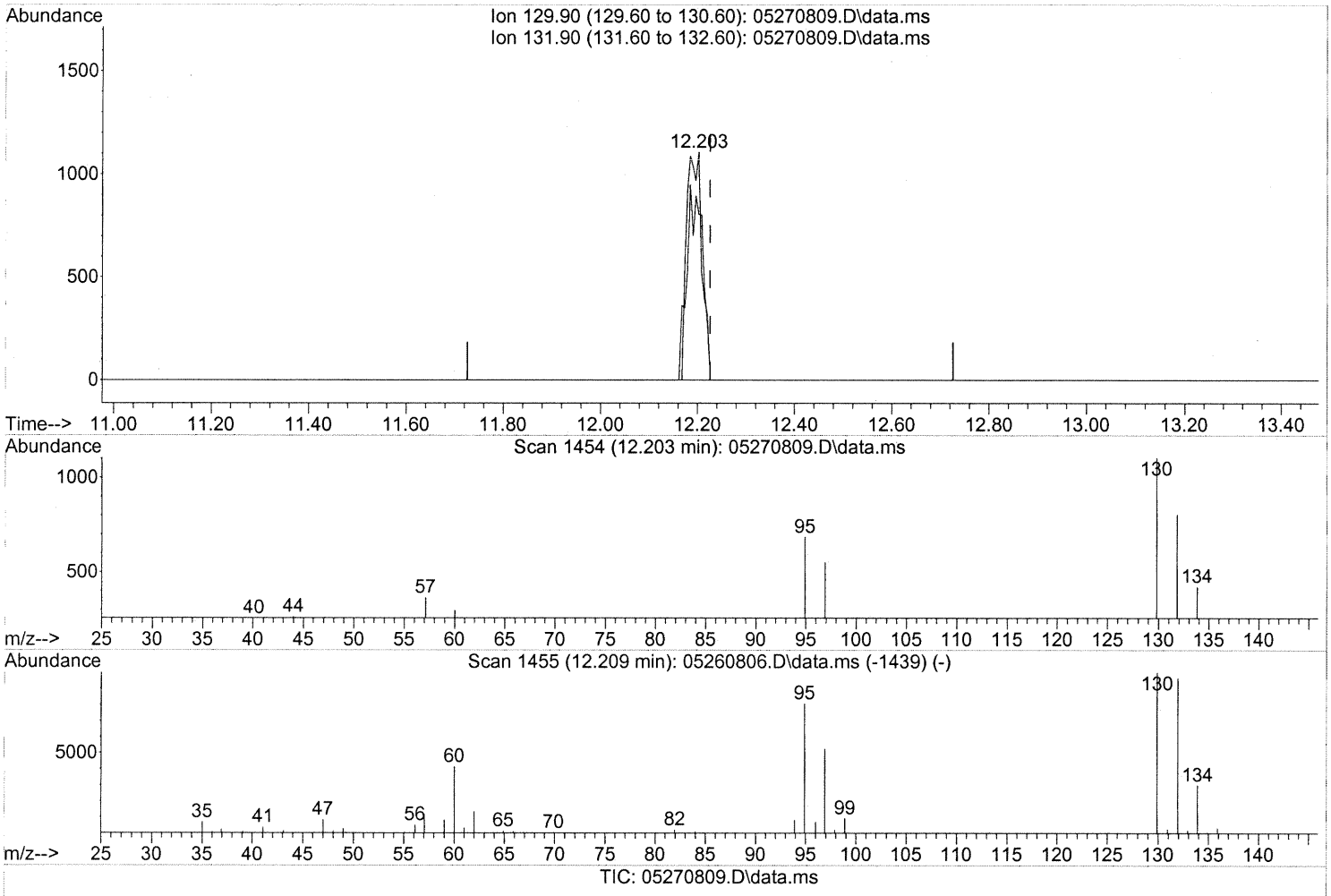
response 1768

Ion	Exp%	Act%
82.90	100	100
84.90	62.30	61.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(47) Trichloroethene (T)

12.203min (-0.024) 0.11ng

response 2439

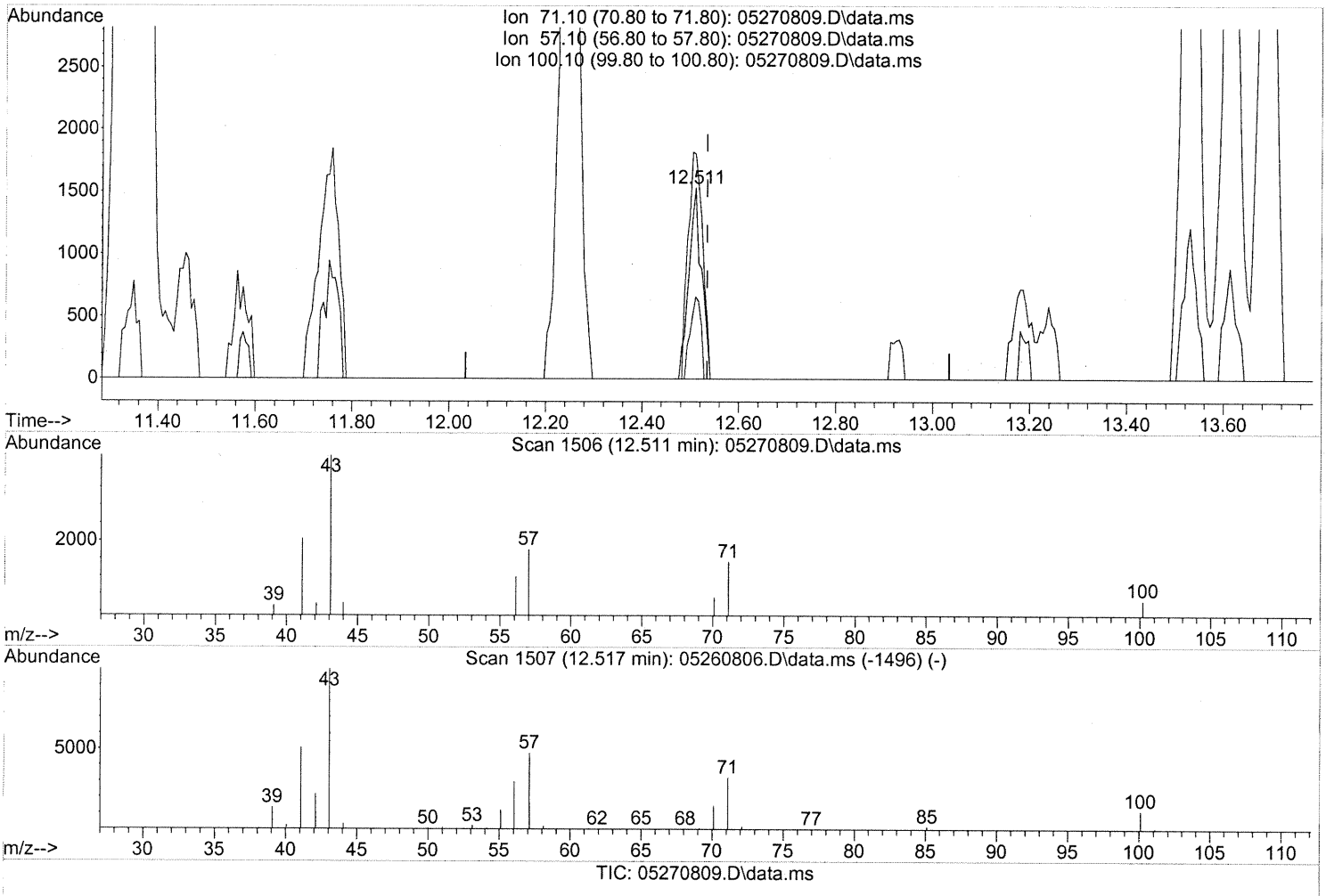
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	88.85
0.00	0.00	0.00
0.00	0.00	0.00

131

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(51) n-Heptane (T)

12.511min (-0.024) 0.16ng

response 2794

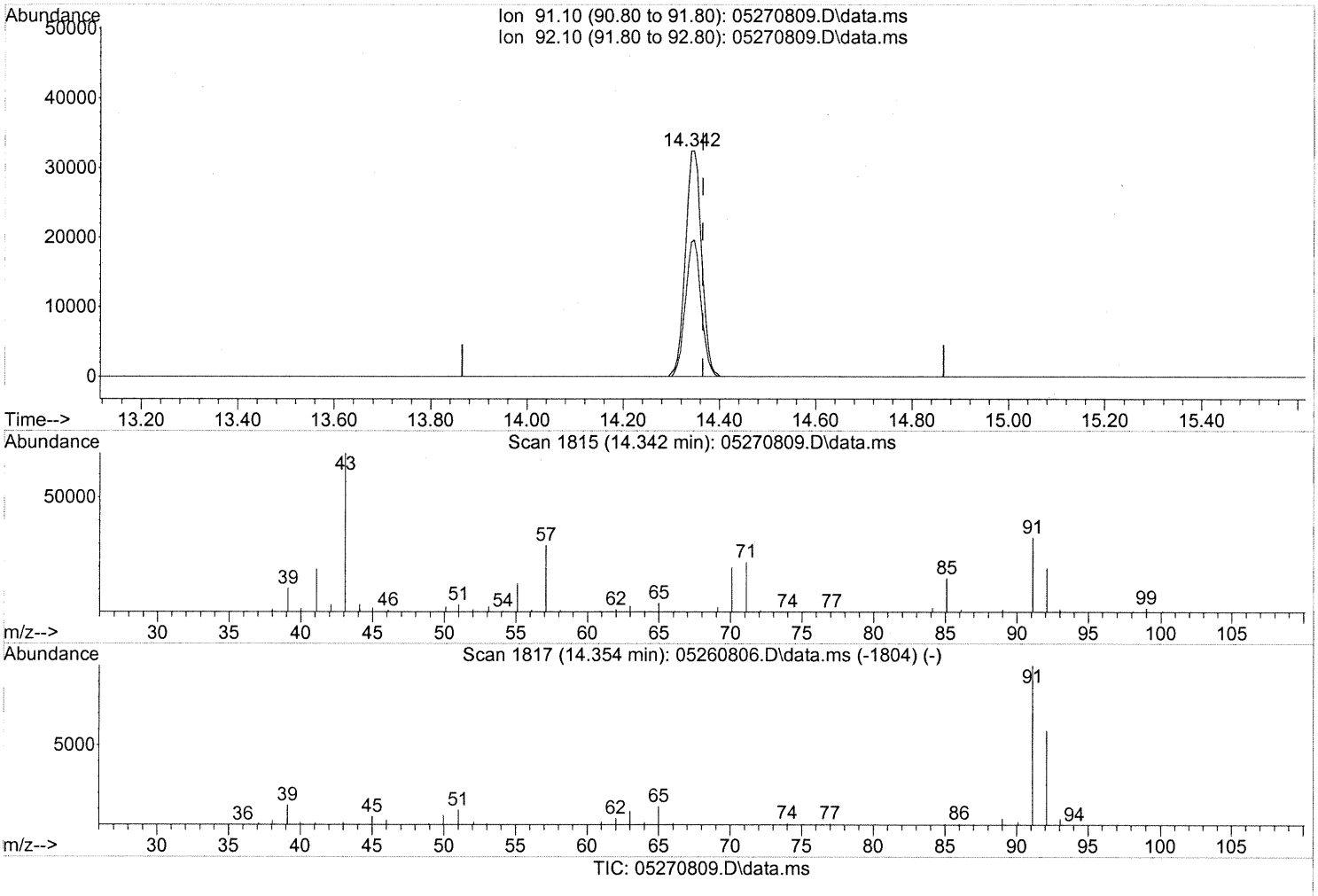
Ion	Exp%	Act%
71.10	100	100
57.10	88.70	137.51#
100.10	28.80	36.33
0.00	0.00	0.00

132

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(58) Toluene (T)

14.342min (-0.024) 0.96ng

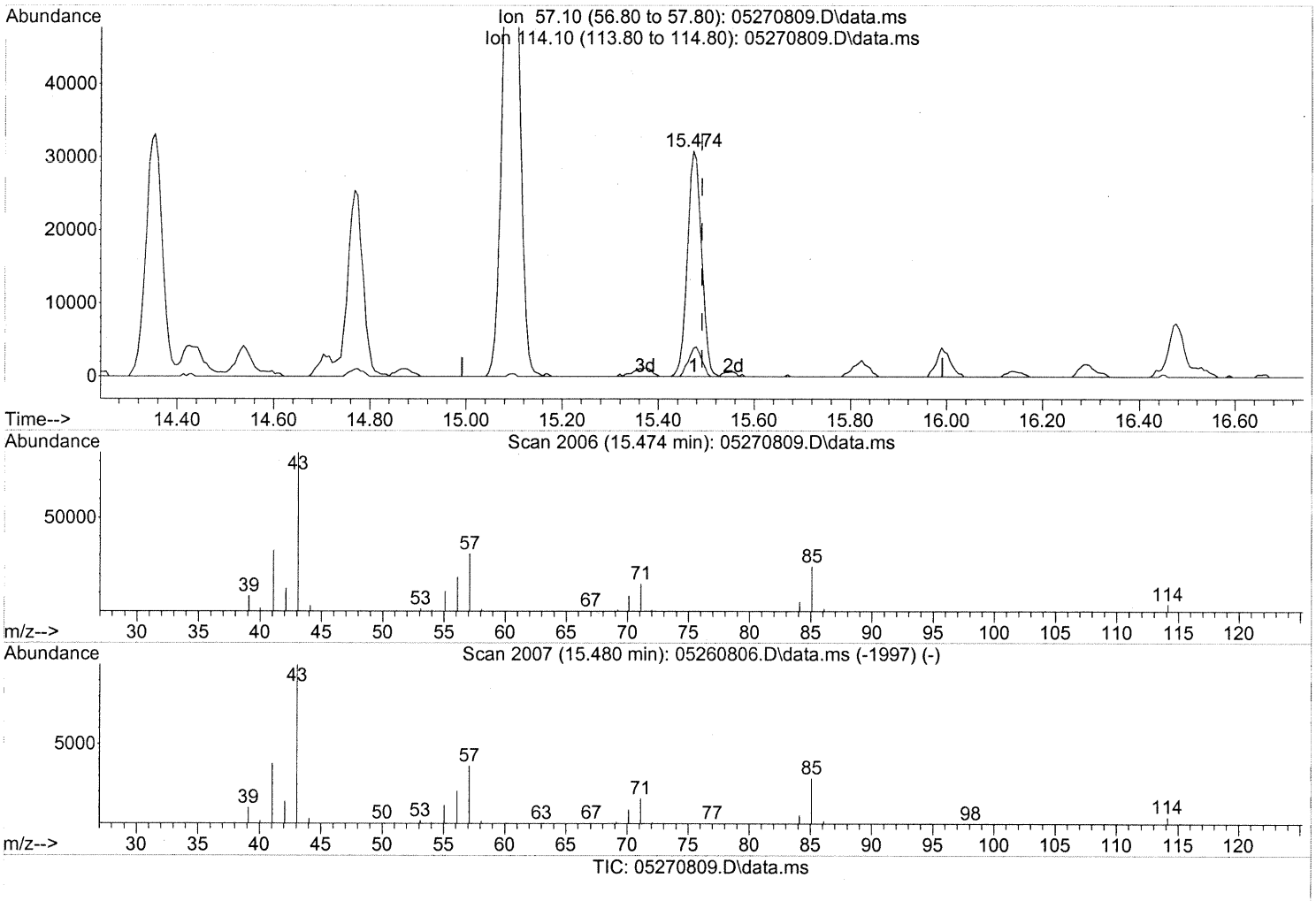
response 75596

Ion	Exp%	Act%
91.10	100	100
92.10	57.80	58.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 2.64ng

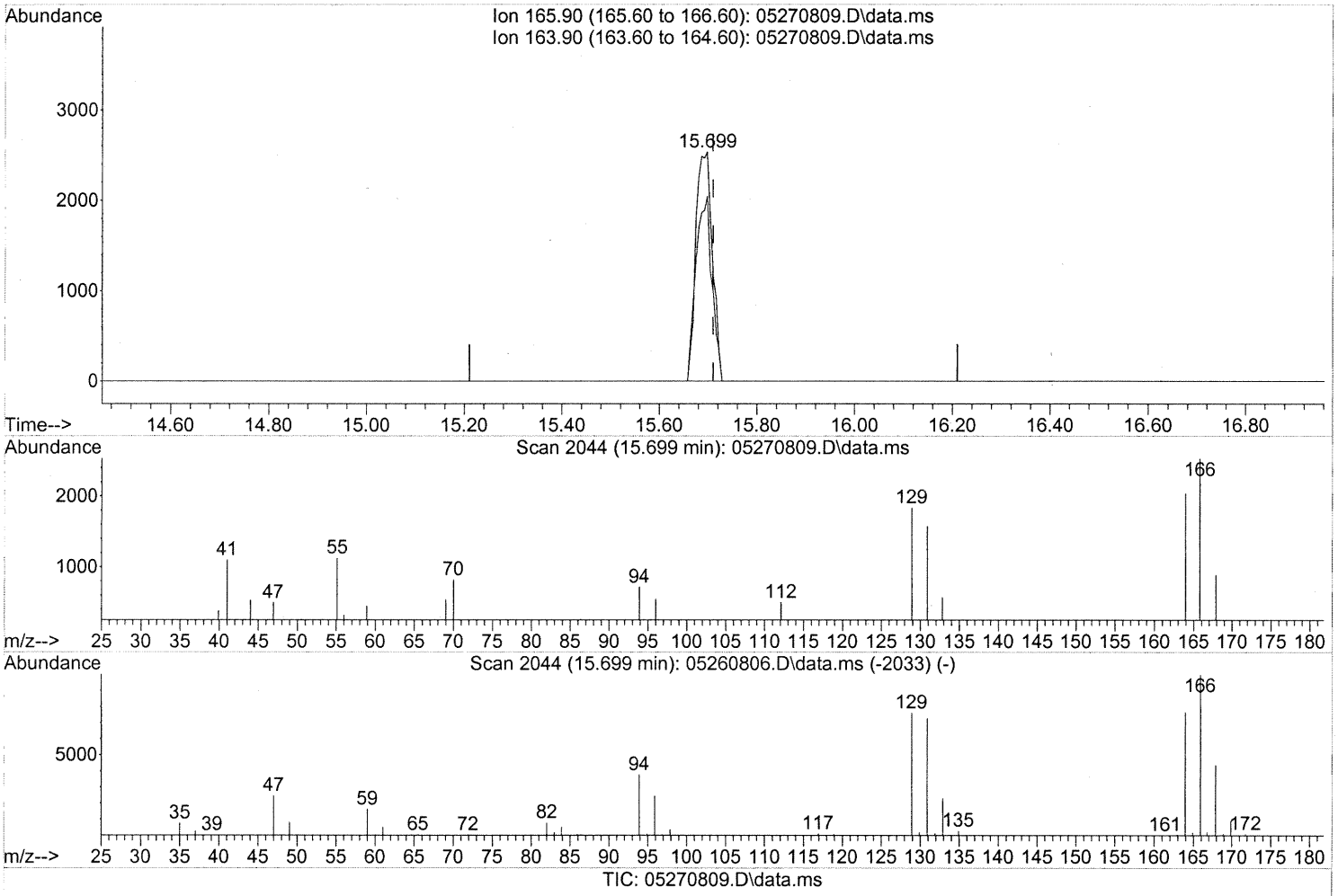
response 62834

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	12.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(64) Tetrachloroethene (T)

15.699min (-0.012) 0.26ng

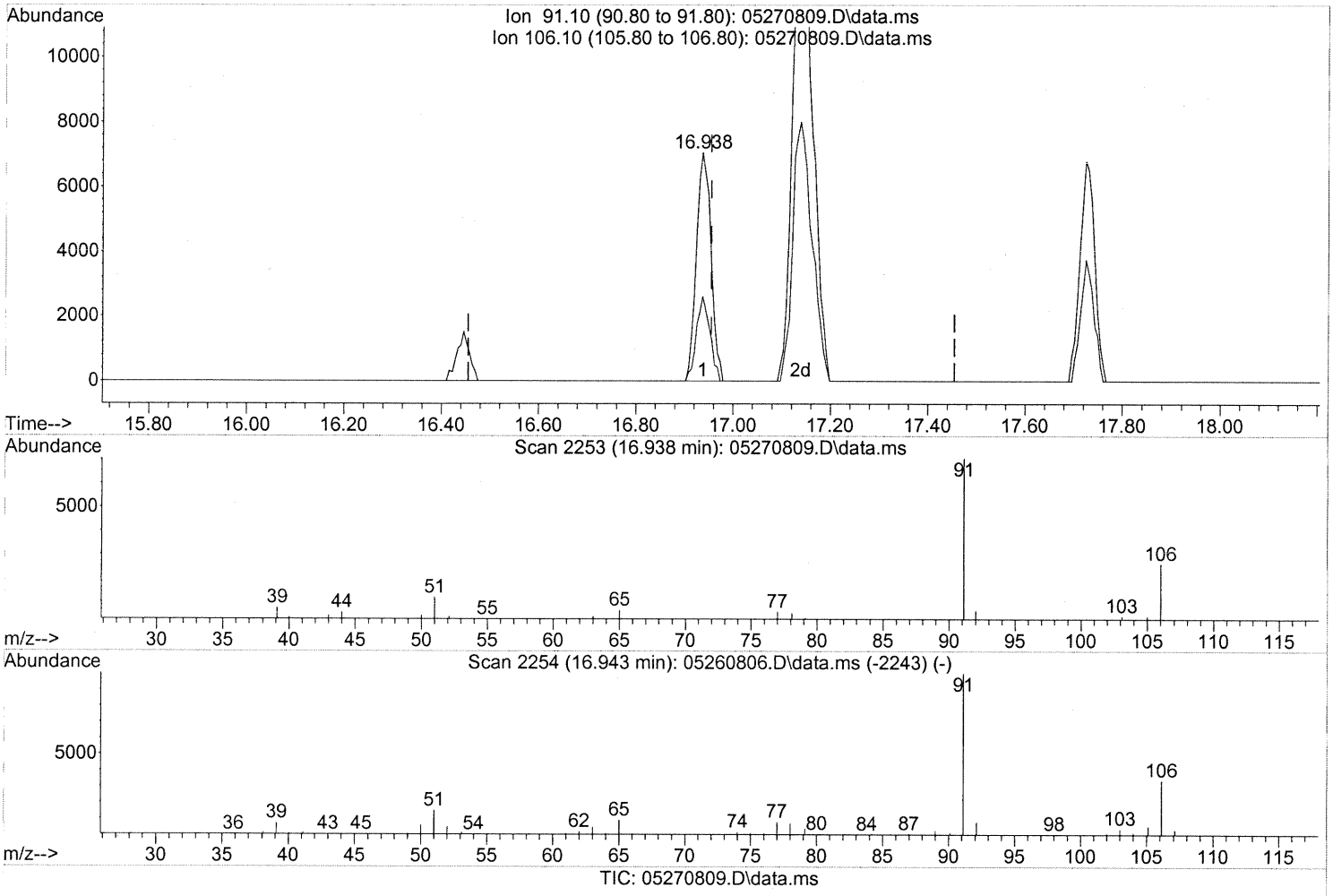
response 5955

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(66) Ethylbenzene (T)

16.938min (-0.018) 0.16ng

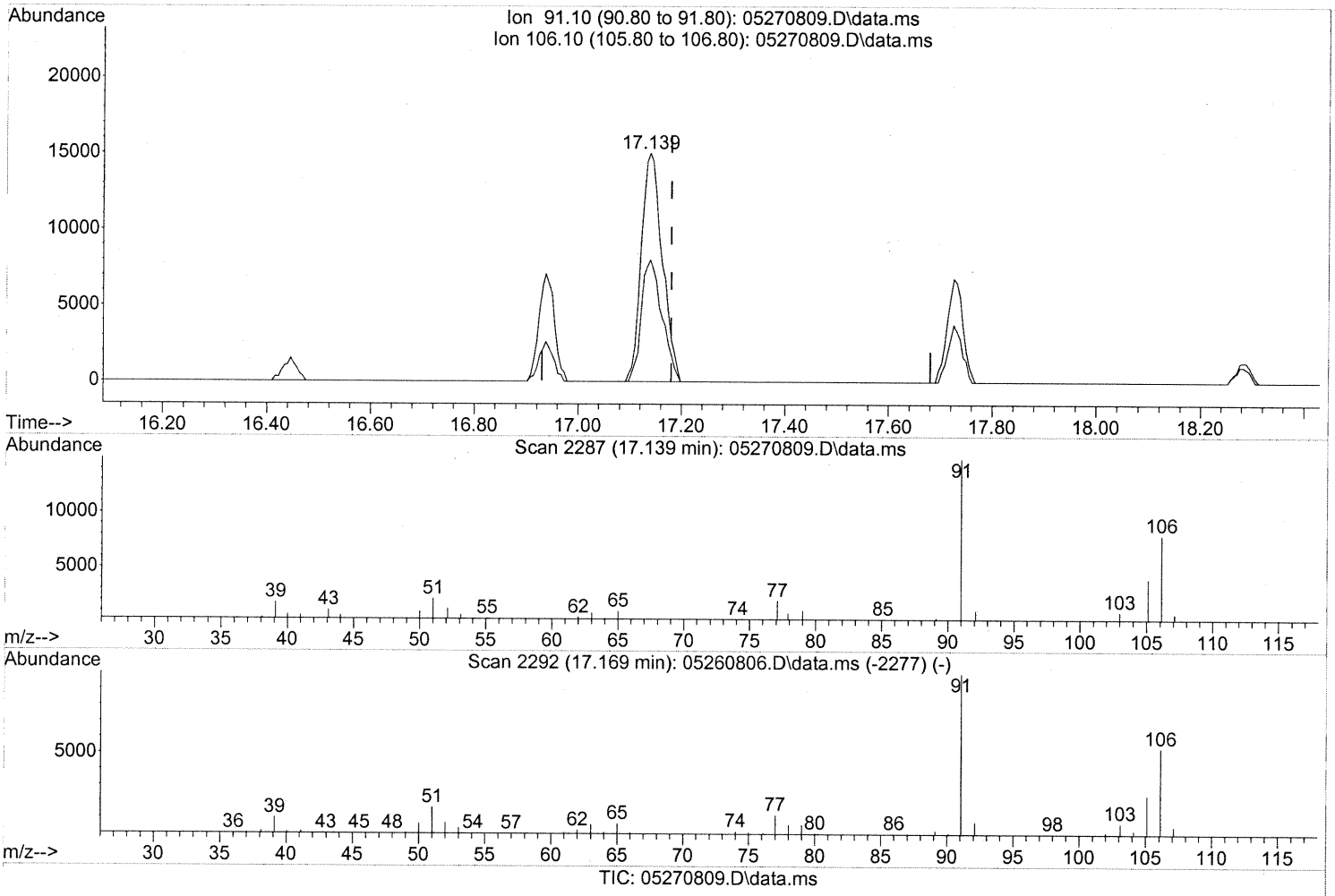
response 14646

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	34.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

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

17.139min (-0.041) 0.72ng

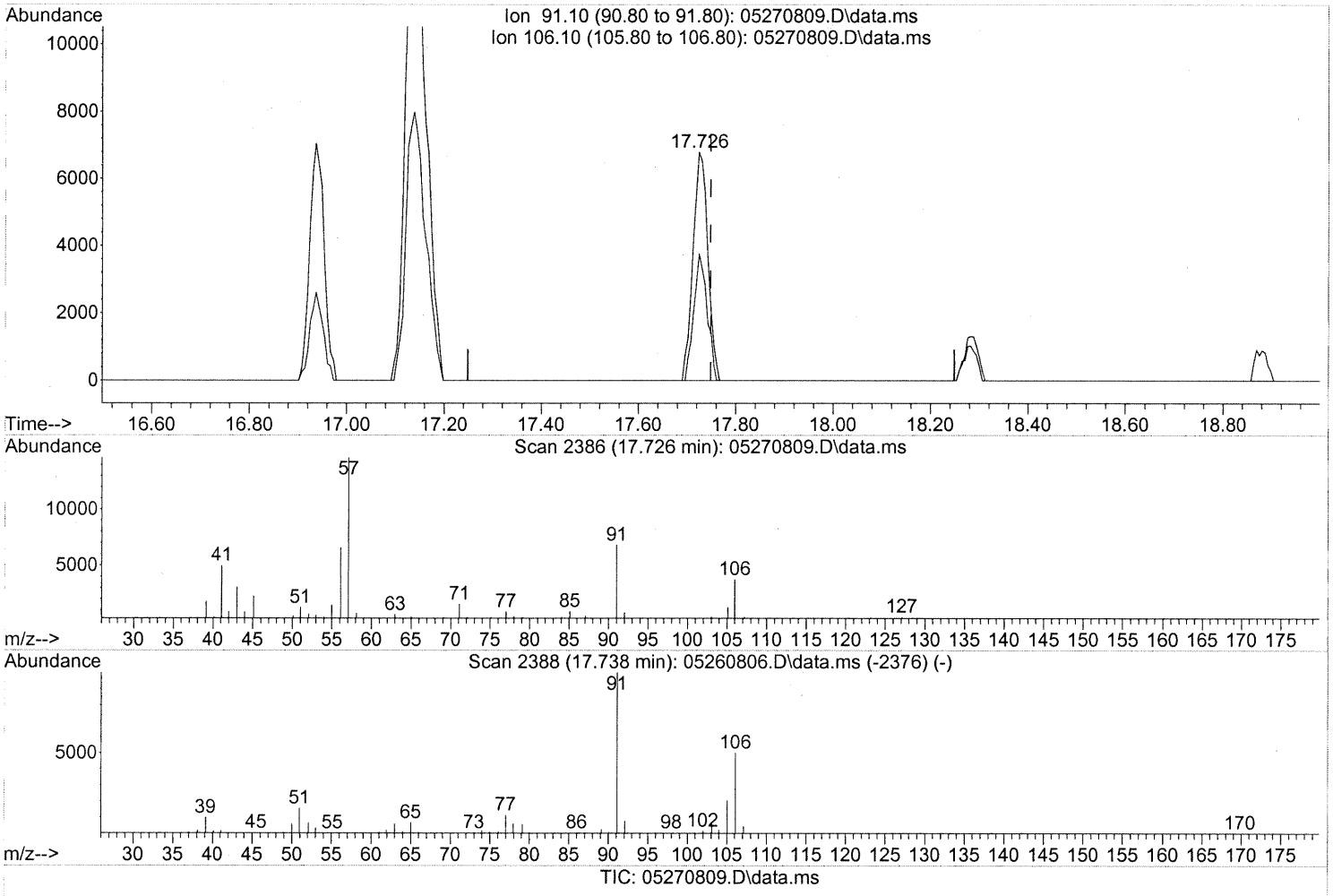
response 42389

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	52.41
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.23ng

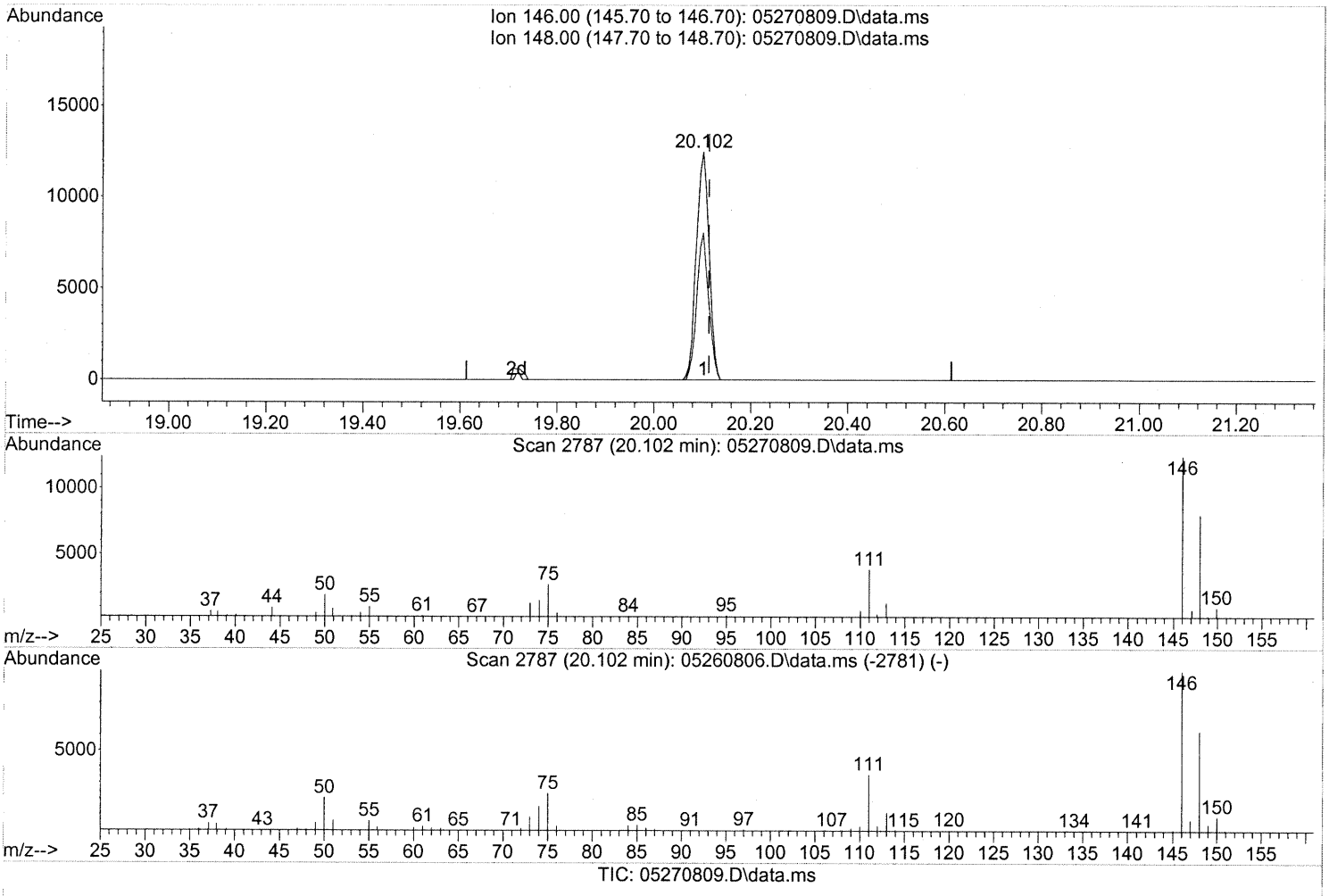
response 14349

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	49.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 28 04:46:39 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270809.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 0.45ng

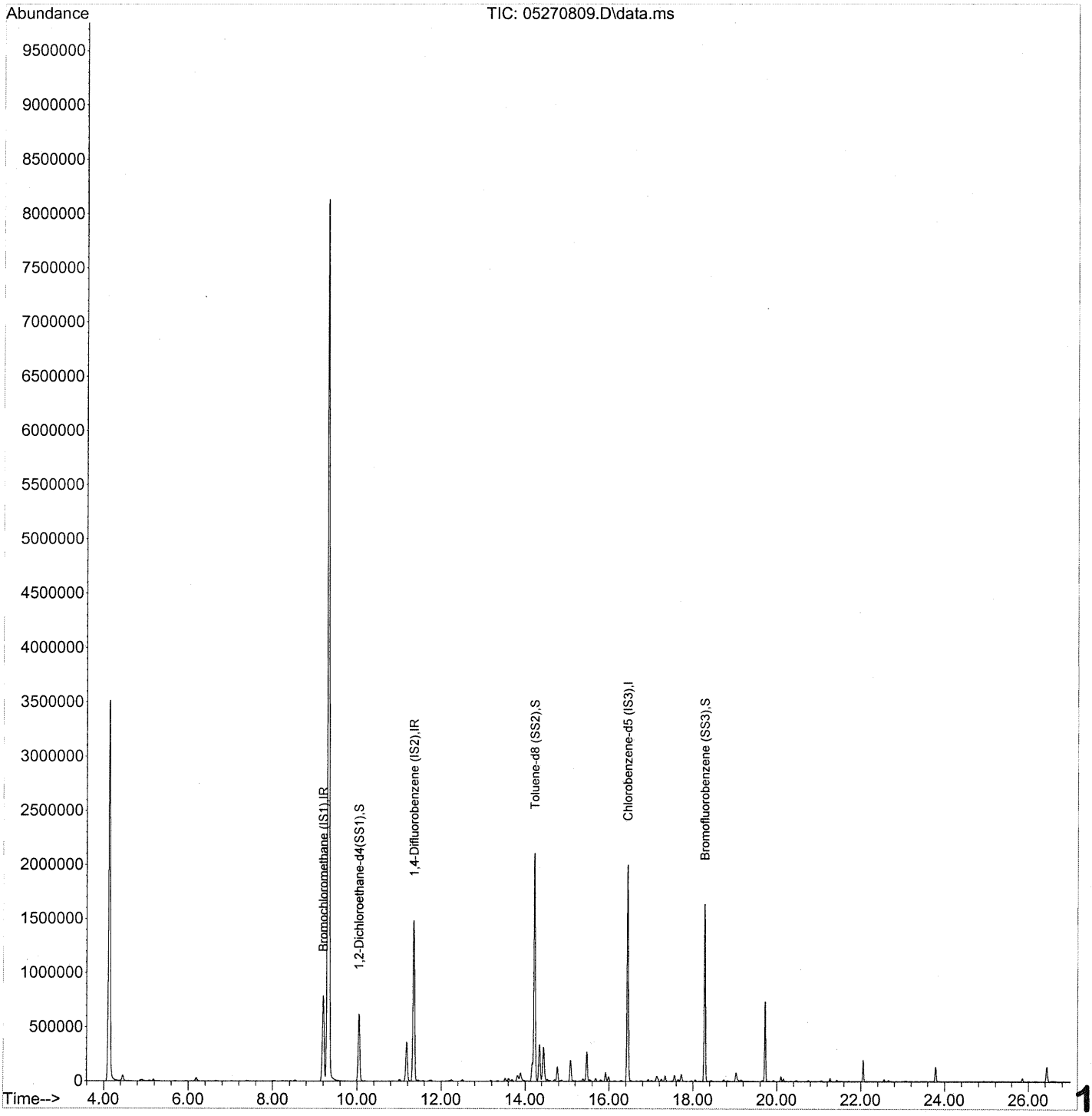
response 22545

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	60.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 04 14:39:20 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270809.D
Acq On : 27 May 2008 17:56
Operator : WA
Sample : P0801507-002 (25ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 04 14:39:20 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

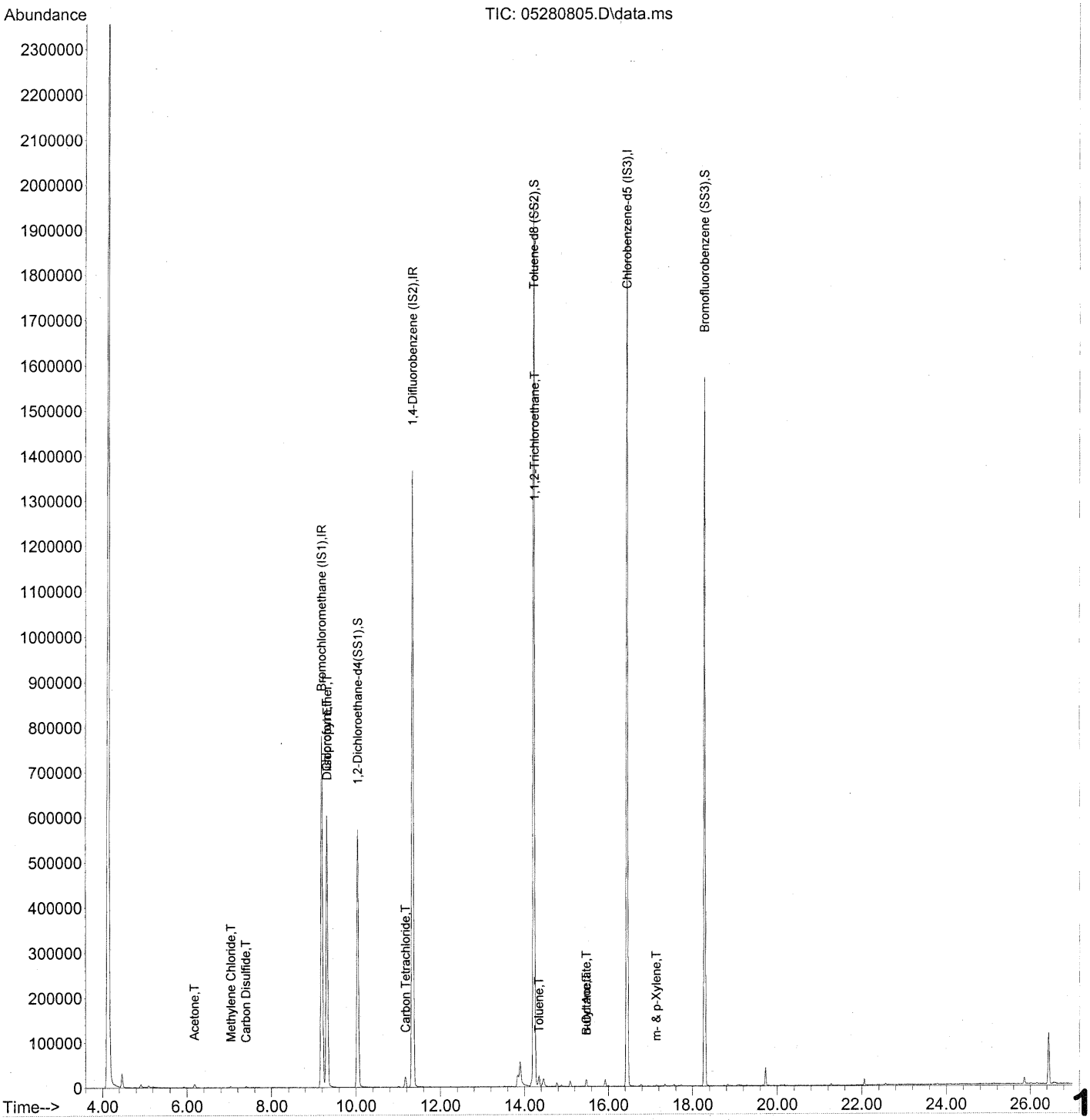
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	407143	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1685075	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	671836	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	572018	24.571	ng	-0.05
Spiked Amount 25.000			Recovery =	98.28%		
5) Toluene-d8 (SS2)	14.23	98	1707712	24.655	ng	-0.02
Spiked Amount 25.000			Recovery =	98.64%		
6) Bromofluorobenzene (SS3)	18.28	174	594120	25.799	ng	-0.01
Spiked Amount 25.000			Recovery =	103.20%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.82	119	437	N.D.		
8) n-Butylbenzene	20.84	91	736	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:03 pm
Operator : WA
Sample : P0801507-002 Dil (2ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:44:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:03 pm
Operator : WA
Sample : P0801507-002 Dil (2ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:44:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	381474	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1555272	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	637855	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	537683	24.650	ng		-0.05
Spiked Amount 25.000			Recovery =	98.60%			
57) Toluene-d8 (SS2)	14.22	98	1582604	24.066	ng		-0.02
Spiked Amount 25.000			Recovery =	96.28%			
73) Bromofluorobenzene (SS3)	18.28	174	565155	25.849	ng		-0.01
Spiked Amount 25.000			Recovery =	103.40%			
Target Compounds							Qvalue
2) Propene	4.47	42	835	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	0.00	45	0	N.D.			
11) Acetonitrile	5.93	41	2722	N.D.			
12) Acrolein	6.06	56	457	N.D.			
13) Acetone	6.18	58	4981	0.250	ng	#	54
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	7.04	84	1090	0.071	ng	#	5
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3240	0.052	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	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	9.32	87	64647	4.709	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:03 pm
Operator : WA
Sample : P0801507-002 Dil (2ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:44:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	594865	26.426	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	0.00	56	0	N.D.			
41) Benzene	11.01	78	2827	N.D.			
42) Carbon Tetrachloride	11.17	117	19756	0.735	ng		99
43) Cyclohexane	11.35	84	608	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	12.23	57	845	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	14.24	97	134828	8.454	ng	#	7
58) Toluene	14.34	91	4964	0.067	ng		96
59) 2-Hexanone	14.58	43	748	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	10293	0.145	ng	#	73
63) n-Octane	15.47	57	3621	0.161	ng		73
64) Tetrachloroethene	0.00	166	0	N.D.			
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.95	91	834	N.D.			
67) m- & p-Xylene	17.14	91	3080	0.055	ng		97
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	906	N.D.			
71) n-Nonane	17.97	43	412	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	578	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	18.89	105	338	N.D.			
78) 4-Ethyltoluene	18.89	105	338	N.D.			
79) 1,3,5-Trimethylbenzene	0.00	105	0	N.D.			

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:03 pm
Operator : WA
Sample : P0801507-002 Dil (2ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:44:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

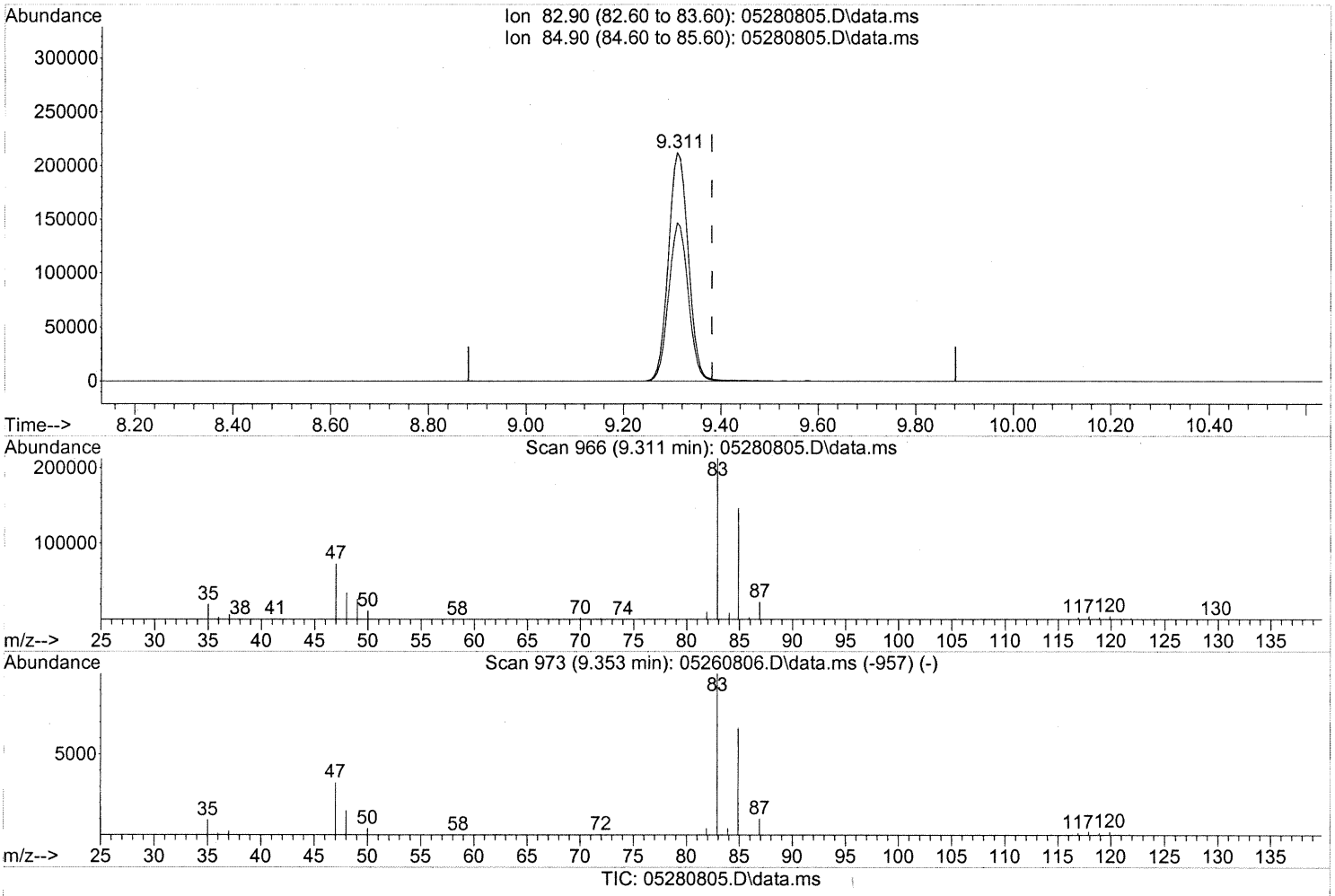
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	182	N.D.		
81) 2-Ethyltoluene	19.82	105	219	N.D.		
82) 1,2,4-Trimethylbenzene	19.82	105	219	N.D.		
83) n-Decane	19.92	57	95	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.10	146	1262	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	1262	N.D.		
87) sec-Butylbenzene	19.82	105	219	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	20.76	105	340	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	21.44	57	137	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	758	N.D.		
96) n-Dodecane	22.67	57	109	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:\MS16\DATA\2008_05\28\
Data File : 05280805.D
Acq On : 28 May 2008 12:03
Operator : WA
Sample : P0801507-002 Dil (2ml)
Misc : ENSR SG30B-05 (-3.0, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:44:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280805.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 26.43ng

response 594865

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.16
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG29B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00989

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	83	8.3	ND	17	1.7	
74-87-3	Chloromethane	ND	17	8.3	ND	8.0	4.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	83	8.3	ND	12	1.2	
75-01-4	Vinyl Chloride	ND	17	8.3	ND	6.5	3.2	
74-83-9	Bromomethane	ND	17	8.3	ND	4.3	2.1	
75-00-3	Chloroethane	ND	17	8.3	ND	6.3	3.1	
64-17-5	Ethanol	ND	830	8.3	ND	440	4.4	
67-64-1	**Acetone**	**260**	830	12	**110**	350	5.1	**J, B**
75-69-4	**Trichlorofluoromethane**	**660**	17	8.3	**120**	2.9	1.5	
107-13-1	Acrylonitrile	ND	83	12	ND	38	5.3	
75-35-4	1,1-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	83	12	ND	27	4.0	
75-09-2	**Methylene Chloride**	**13**	83	8.3	**3.7**	24	2.4	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	17	8.3	ND	5.3	2.6	
76-13-1	Trichlorotrifluoroethane	ND	17	9.2	ND	2.2	1.2	
75-15-0	Carbon Disulfide	ND	83	20	ND	27	6.4	
156-60-5	trans-1,2-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
75-34-3	1,1-Dichloroethane	ND	17	8.3	ND	4.1	2.0	
1634-04-4	Methyl tert-Butyl Ether	ND	17	8.3	ND	4.6	2.3	
108-05-4	Vinyl Acetate	ND	830	26	ND	230	7.5	
78-93-3	**2-Butanone (MEK)**	**22**	83	8.3	**7.4**	28	2.8	**J**
156-59-2	cis-1,2-Dichloroethene	ND	17	8.3	ND	4.2	2.1	
108-20-3	Diisopropyl Ether	ND	83	9.7	ND	20	2.3	
67-66-3	**Chloroform**	**63,000**	17	9.7	**13,000**	3.4	2.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG29B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-003

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00989

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.010 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	83	8.4	ND	20	2.0	
107-06-2	1,2-Dichloroethane	ND	17	8.3	ND	4.1	2.0	
71-55-6	1,1,1-Trichloroethane	ND	17	8.3	ND	3.0	1.5	
71-43-2	**Benzene**	**12**	17	8.3	**3.9**	5.2	2.6	**J**
56-23-5	**Carbon Tetrachloride**	**18,000**	17	8.3	**2,800**	2.6	1.3	
994-05-8	tert-Amyl Methyl Ether	ND	83	8.3	ND	20	2.0	
78-87-5	1,2-Dichloropropane	ND	17	8.3	ND	3.6	1.8	
75-27-4	Bromodichloromethane	ND	17	8.3	ND	2.5	1.2	
79-01-6	Trichloroethene	ND	17	8.3	ND	3.1	1.5	
123-91-1	1,4-Dioxane	ND	83	10	ND	23	2.8	
80-62-6	Methyl Methacrylate	ND	83	12	ND	20	3.0	
142-82-5	n-Heptane	ND	83	11	ND	20	2.6	
10061-01-5	cis-1,3-Dichloropropene	ND	83	8.6	ND	18	1.9	
108-10-1	4-Methyl-2-pentanone	ND	83	9.2	ND	20	2.3	
10061-02-6	trans-1,3-Dichloropropene	ND	83	10	ND	18	2.3	
79-00-5	1,1,2-Trichloroethane	ND	17	8.3	ND	3.0	1.5	
108-88-3	**Toluene**	**58**	83	8.3	**15**	22	2.2	**J**
591-78-6	2-Hexanone	ND	83	13	ND	20	3.1	
124-48-1	Dibromochloromethane	ND	17	11	ND	1.9	1.3	
106-93-4	1,2-Dibromoethane	ND	17	8.9	ND	2.1	1.2	
111-65-9	**n-Octane**	**140**	83	8.3	**30**	18	1.8	
127-18-4	**Tetrachloroethene**	**20**	17	8.3	**2.9**	2.4	1.2	
108-90-7	Chlorobenzene	ND	17	8.4	ND	3.6	1.8	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG29B-05** CAS Sample ID: P0801507-003
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/19/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/28 - 5/29/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.010 Liter(s)
Test Notes: 0.0010 Liter(s)
Container ID: SC00989

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**16**	83	10	**3.6**	19	2.4	**J**
179601-23-1	**m,p-Xylenes**	**64**	83	21	**15**	19	4.9	**J**
75-25-2	Bromoform	ND	83	13	ND	8.0	1.2	
100-42-5	Styrene	ND	83	13	ND	19	2.9	
95-47-6	**o-Xylene**	**18**	83	10	**4.3**	19	2.4	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	17	11	ND	2.4	1.5	
98-82-8	Cumene	ND	83	9.2	ND	17	1.9	
103-65-1	n-Propylbenzene	ND	83	8.6	ND	17	1.7	
622-96-8	4-Ethyltoluene	ND	83	9.4	ND	17	1.9	
108-67-8	1,3,5-Trimethylbenzene	ND	83	9.9	ND	17	2.0	
98-83-9	alpha-Methylstyrene	ND	83	12	ND	17	2.5	
95-63-6	1,2,4-Trimethylbenzene	ND	83	11	ND	17	2.3	
100-44-7	Benzyl Chloride	ND	17	14	ND	3.2	2.7	
541-73-1	1,3-Dichlorobenzene	ND	17	10	ND	2.7	1.7	
106-46-7	1,4-Dichlorobenzene	ND	17	9.2	ND	2.7	1.5	
135-98-8	sec-Butylbenzene	ND	83	9.6	ND	15	1.7	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	83	11	ND	15	2.0	
95-50-1	1,2-Dichlorobenzene	ND	17	11	ND	2.7	1.8	
96-12-8	1,2-Dibromo-3-chloropropane	ND	83	13	ND	8.5	1.3	
120-82-1	1,2,4-Trichlorobenzene	ND	17	13	ND	2.2	1.7	
91-20-3	Naphthalene	ND	33	12	ND	6.3	2.3	
87-68-3	Hexachlorobutadiene	ND	17	15	ND	1.5	1.4	
98-06-6	tert-Butylbenzene	ND	33	8.3	ND	6.0	1.5	
104-51-8	n-Butylbenzene	ND	33	8.3	ND	6.0	1.5	

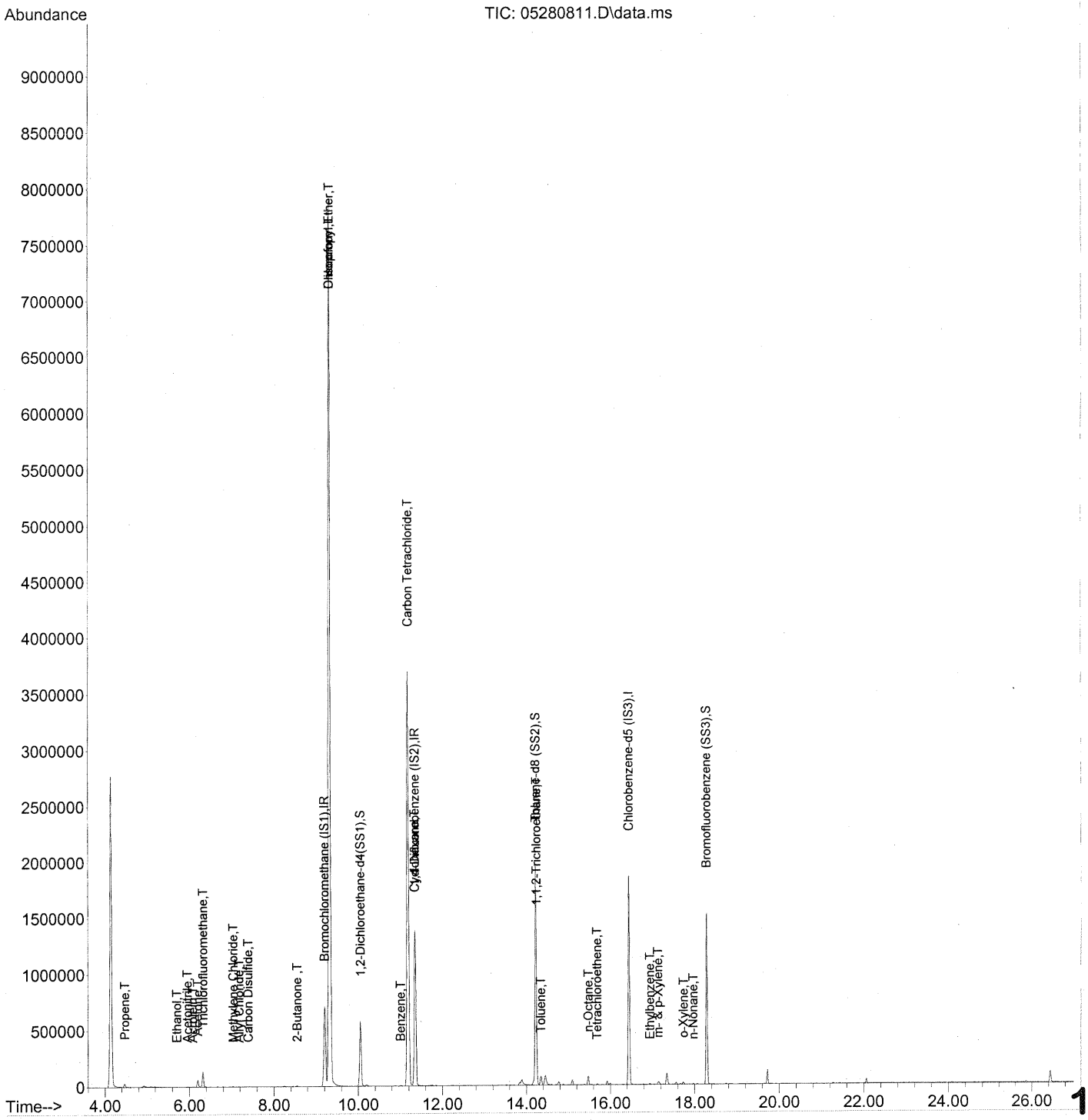
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CAS Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 4:35 pm
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG-29B-05 (-3.7,35)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 4:35 pm
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1 DA 6/4/08

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	374160	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.35	114	1530320	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	627102	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	530224	24.783	ng		-0.04
Spiked Amount 25.000			Recovery =	99.12%			
57) Toluene-d8 (SS2)	14.22	98	1556601	24.077	ng		-0.02
Spiked Amount 25.000			Recovery =	96.32%			
73) Bromofluorobenzene (SS3)	18.28	174	548184	25.503	ng		-0.01
Spiked Amount 25.000			Recovery =	102.00%			
Target Compounds							Qvalue
2) Propene	4.47	42	1755	0.061	ng	#	83
3) Dichlorodifluoromethane	4.55	85	90	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	5.70	45	1318	~~0.067 ng~~	UR	#	38
11) Acetonitrile	5.95	41	2863	0.051	ng	#	11
12) Acrolein	6.08	56	1040	0.073	ng		89
13) Acetone	6.20	58	30471	1.559	ng	#	76
14) Trichlorofluoromethane	6.32	101	130726	3.986	ng		99
15) Isopropanol	6.40	45	185	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.97	59	186	N.D.			
19) Methylene Chloride	7.04	84	1159	0.077	ng	#	15
20) Allyl Chloride	7.18	41	1843	~~0.053 ng~~	UR	#	45
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3976	~~0.066 ng~~		#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.19	63	1174	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	8.55	72	1363	0.133	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	954402	~~70.886 ng~~	UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.23	57	288	N.D.			

151

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 4:35 pm
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1 DH 6/4/08

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	8873311	~~401.882 ng~~ see dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	11.01	78	4858	0.075 ng		90
42) Carbon Tetrachloride	11.18	117	3379049	~~127.681 ng~~ see dil		99
43) Cyclohexane	11.34	84	10584	0.420 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	12.13	83	328	N.D.		
47) Trichloroethene	12.18	130	253	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.25	57	2408	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	12.51	71	370	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.17	58	103	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.24	97	133008	~~8.476 ng~~ DR	#	6
58) Toluene	14.34	91	25765	0.351 ng		97
59) 2-Hexanone	14.59	43	3155	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.31	43	304	N.D.		
63) n-Octane	15.47	57	18607	0.839 ng		95
64) Tetrachloroethene	15.69	166	2602	0.120 ng		91
65) Chlorobenzene	0.00	112	0	N.D.		
66) Ethylbenzene	16.94	91	7866	0.094 ng		95
67) m- & p-Xylene	17.13	91	21339	0.386 ng		95
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.59	104	92	N.D.		
70) o-Xylene	17.73	91	6601	0.112 ng		96
71) n-Nonane	17.96	43	3288	0.056 ng	#	83
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.28	105	489	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.06	91	111	N.D.		
77) 3-Ethyltoluene	19.19	105	727	N.D.		
78) 4-Ethyltoluene	19.24	105	378	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	302	N.D.		

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 4:35 pm
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG39B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1 DA 6/4/08

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

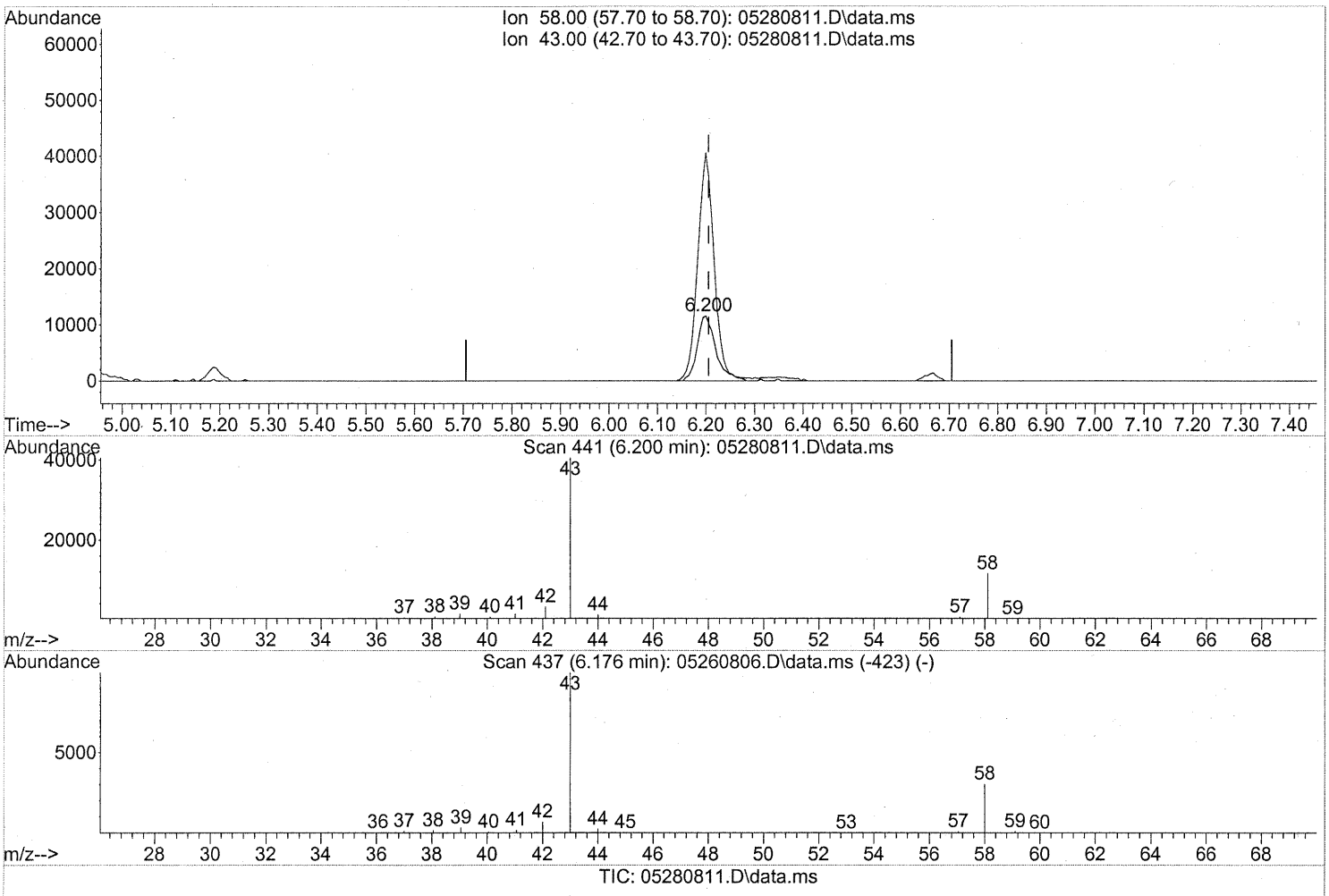
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	982	N.D. ✓	
81) 2-Ethyltoluene	19.56	105	98	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	610	N.D. ✓	
83) n-Decane	19.92	57	1947	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D. ✓	
85) 1,3-Dichlorobenzene	20.10	146	908	N.D. ✓	
86) 1,4-Dichlorobenzene	20.10	146	908	N.D. ✓	
87) sec-Butylbenzene	19.82	105	610	N.D. ✓	
88) p-Isopropyltoluene	0.00	119	0	N.D. ✓	
89) 1,2,3-Trimethylbenzene	20.75	105	266	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	21.43	57	1920	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D. ✓	
95) Naphthalene	22.69	128	654	N.D. ✓	
96) n-Dodecane	22.66	57	1168	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:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(13) Acetone (T)

6.200min (-0.006) 1.56ng

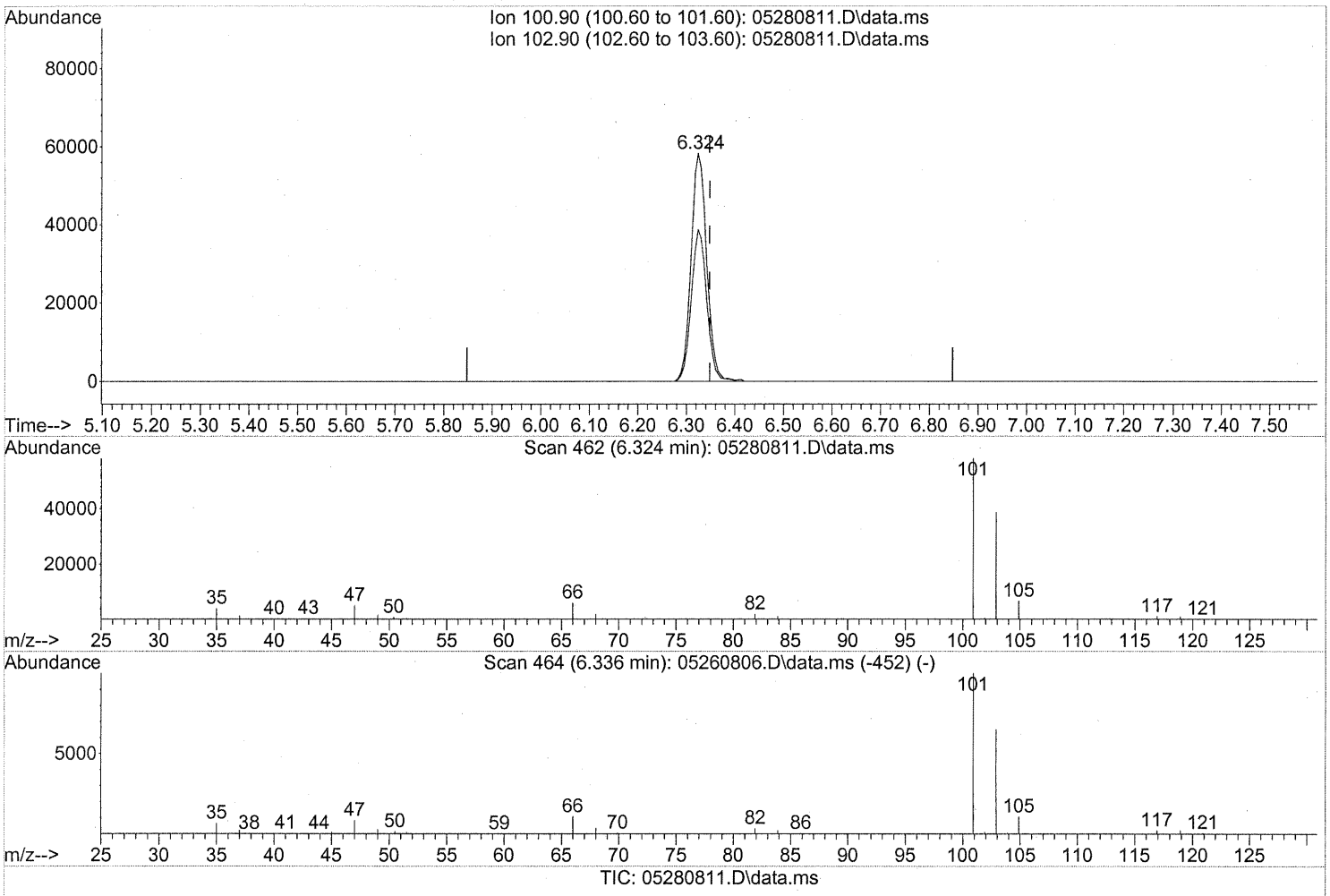
response 30471

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	315.19#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(14) Trichlorofluoromethane (T)

6.324min (-0.024) 3.99ng

response 130726

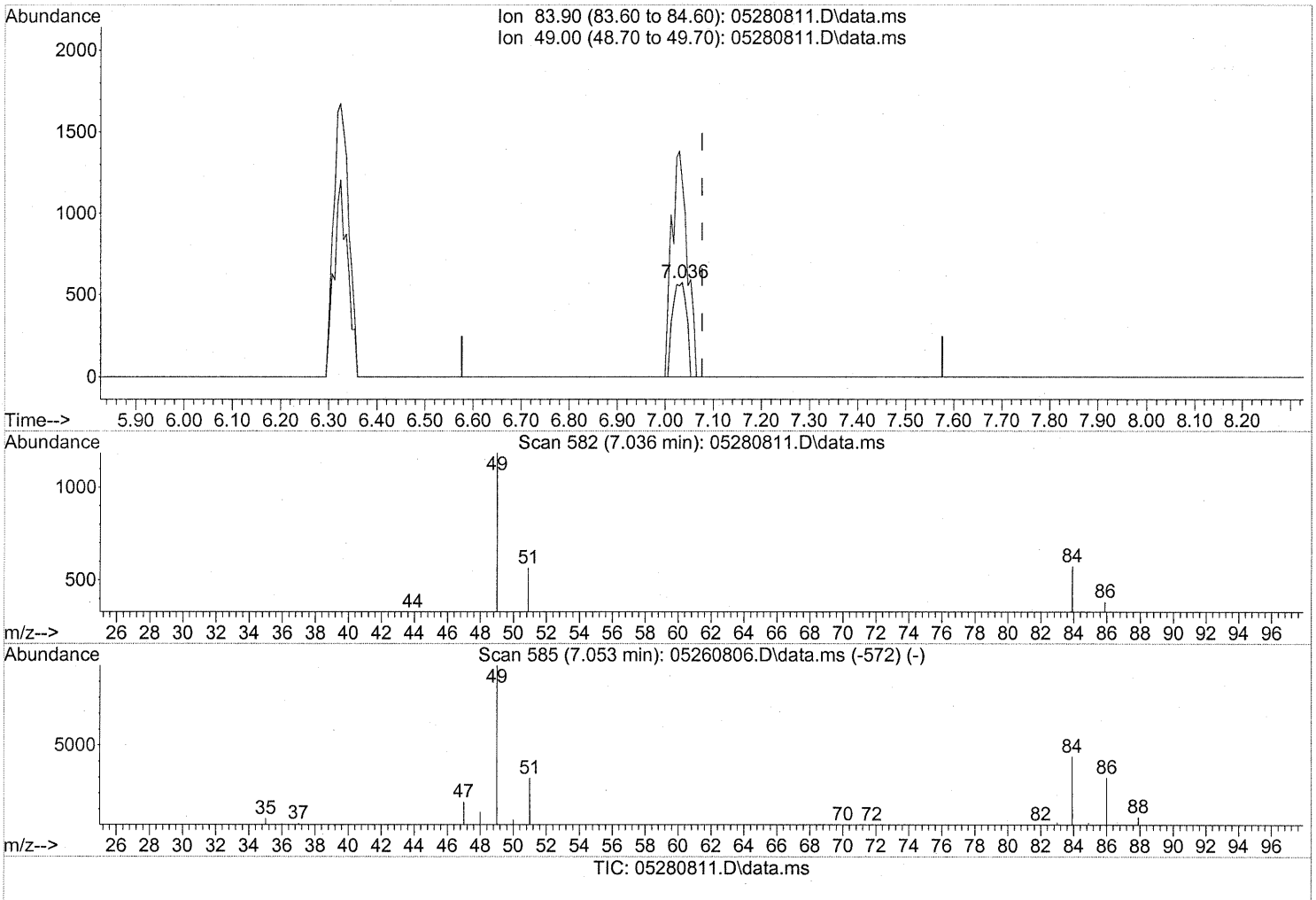
Ion	Exp%	Act%
100.90	100	100
102.90	64.90	65.72
0.00	0.00	0.00
0.00	0.00	0.00

155

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(19) Methylene Chloride (T)

7.036min (-0.041) 0.08ng

response 1159

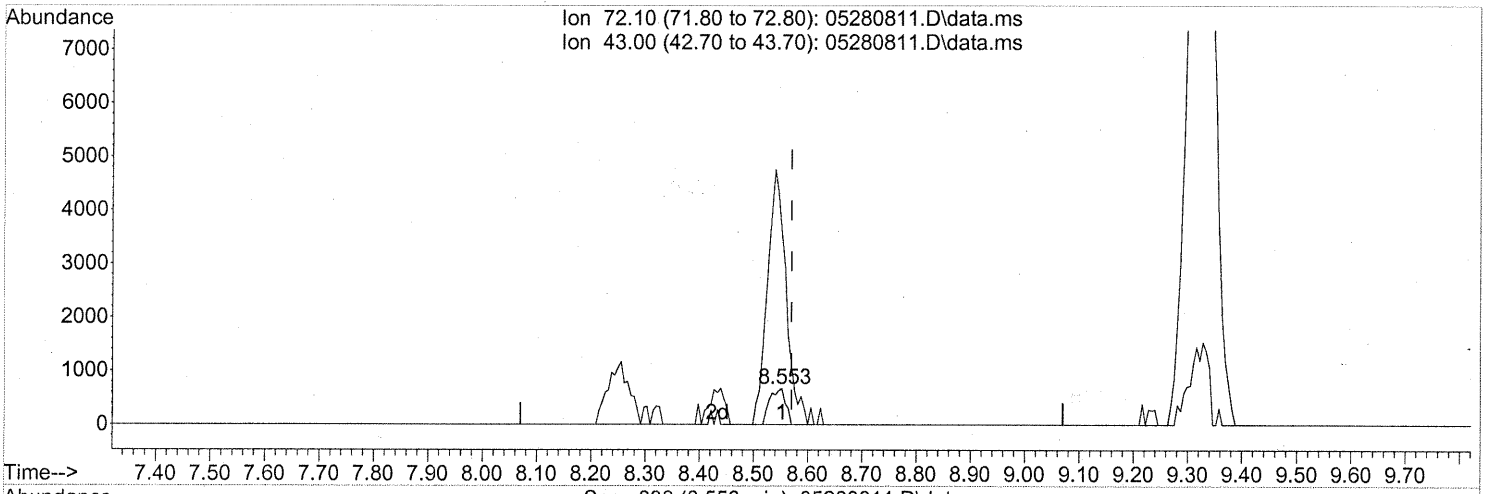
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	266.01#
0.00	0.00	0.00
0.00	0.00	0.00

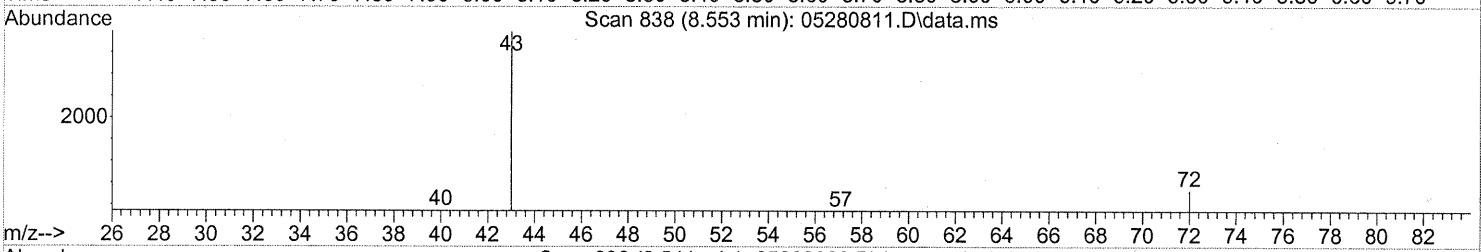
156

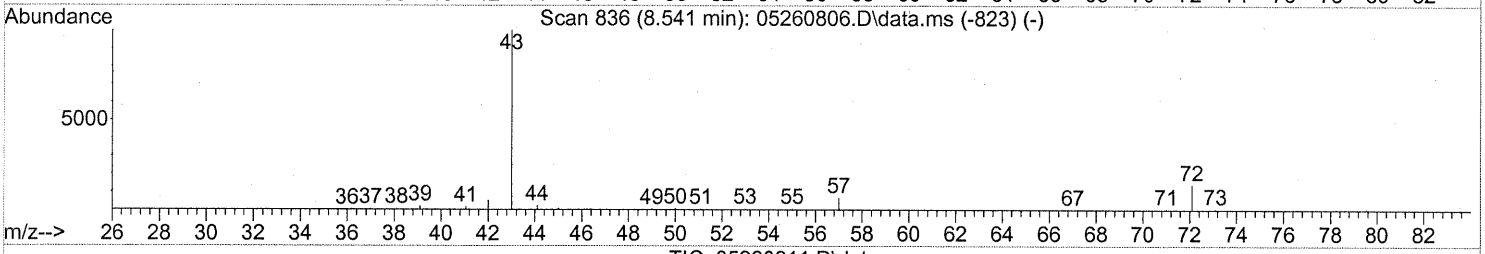
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280811.D\data.ms

(27) 2-Butanone (T)

8.553min (-0.018) 0.13ng

response 1363

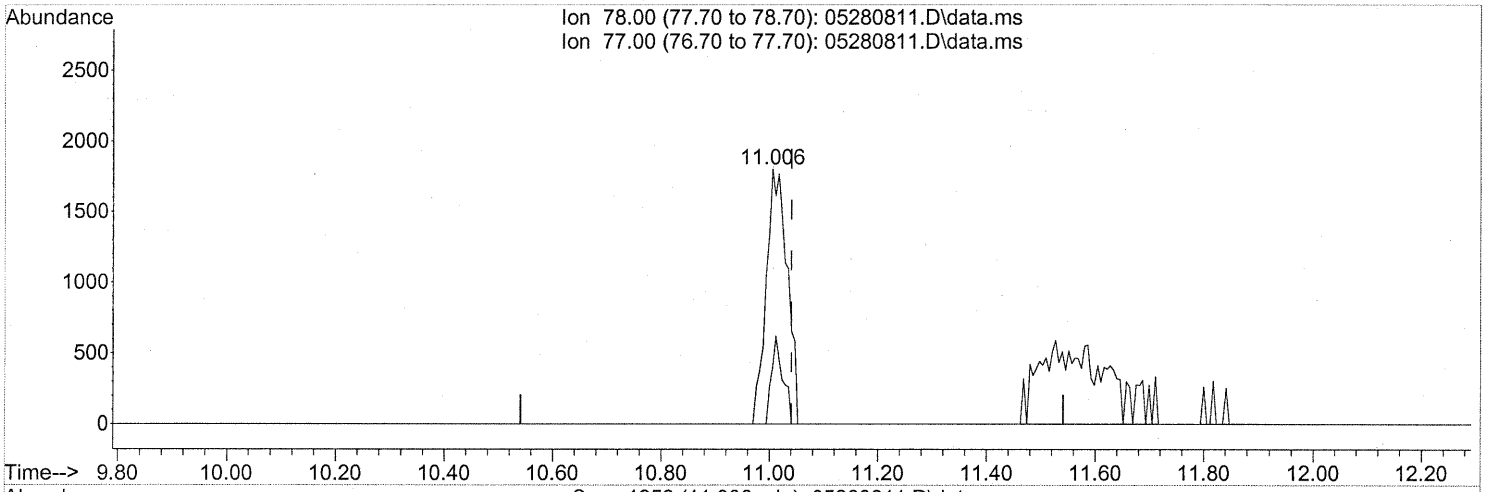
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	848.13#
0.00	0.00	0.00
0.00	0.00	0.00

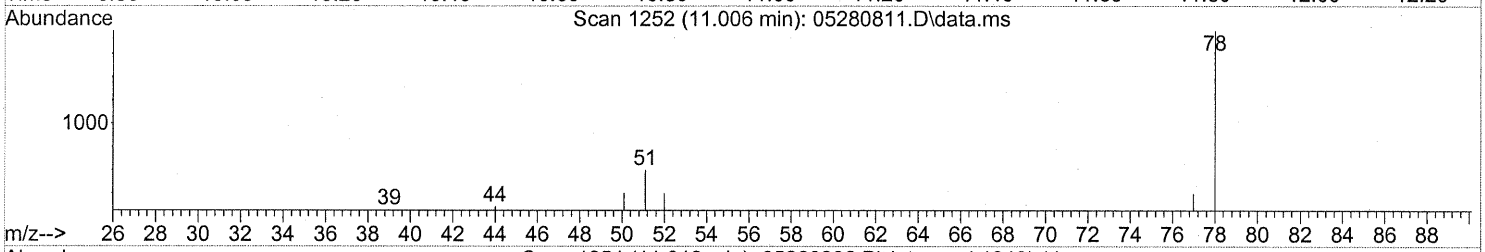
157

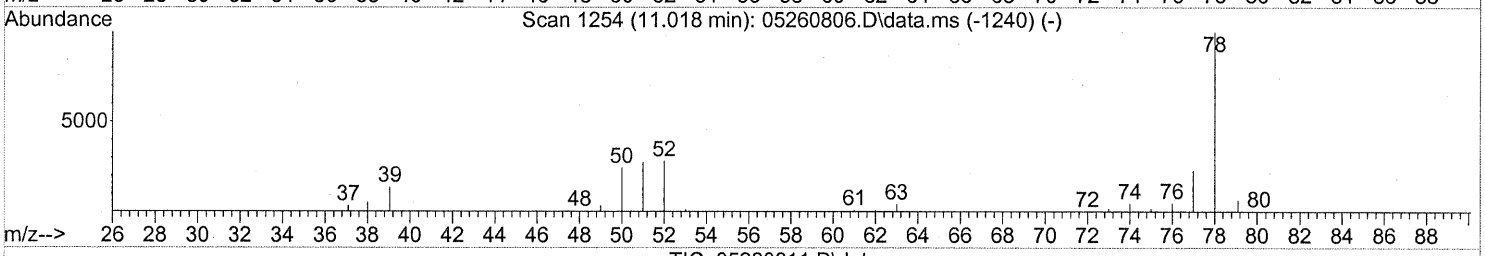
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280811.D\data.ms

(41) Benzene (T)

11.006min (-0.036) 0.08ng

response 4858

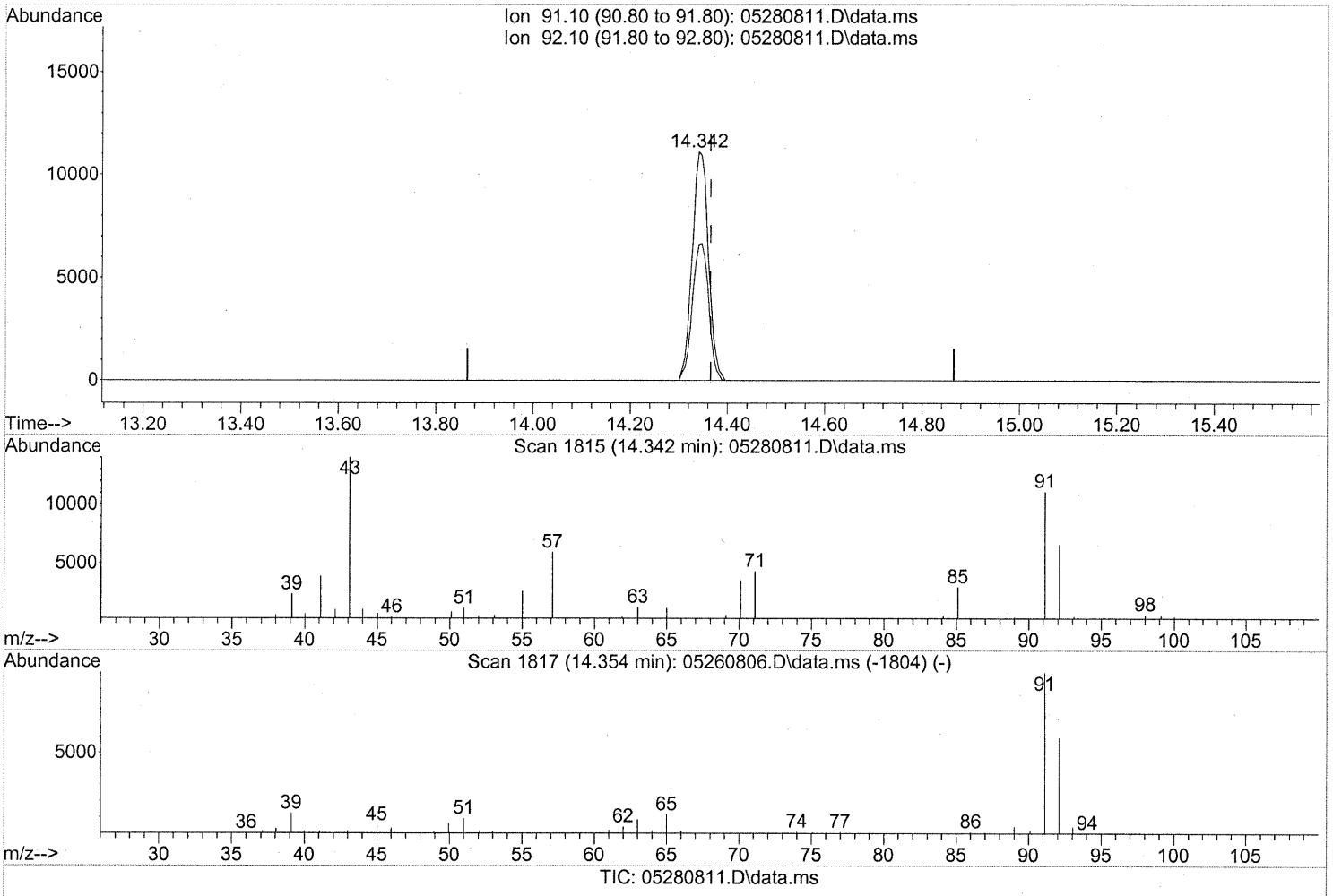
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	18.81
0.00	0.00	0.00
0.00	0.00	0.00

158

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(58) Toluene (T)

14.342min (-0.024) 0.35ng

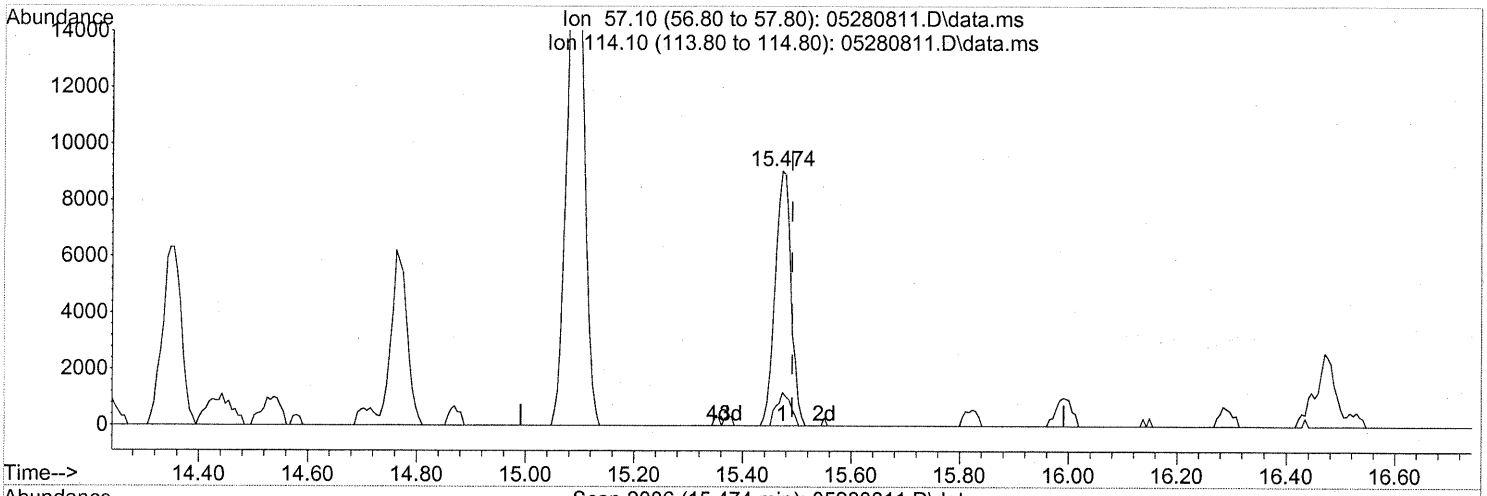
response 25765

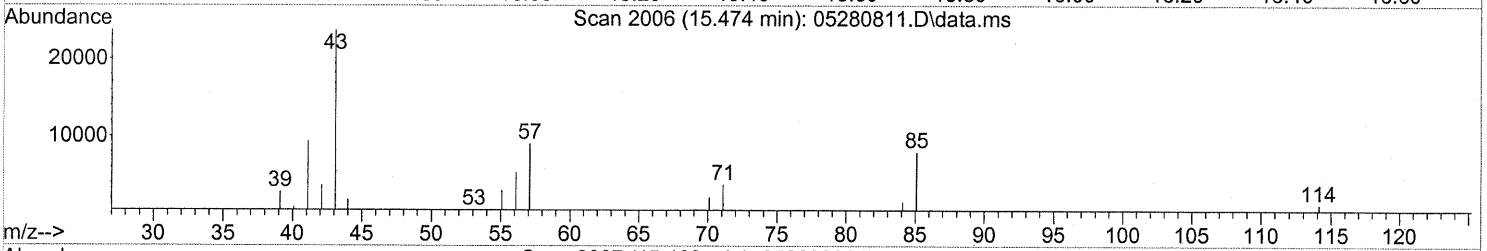
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.89
0.00	0.00	0.00
0.00	0.00	0.00

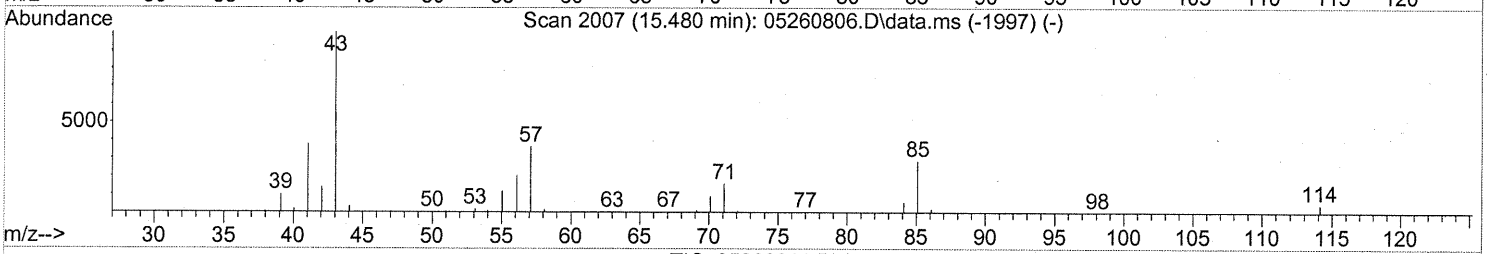
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280811.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.84ng

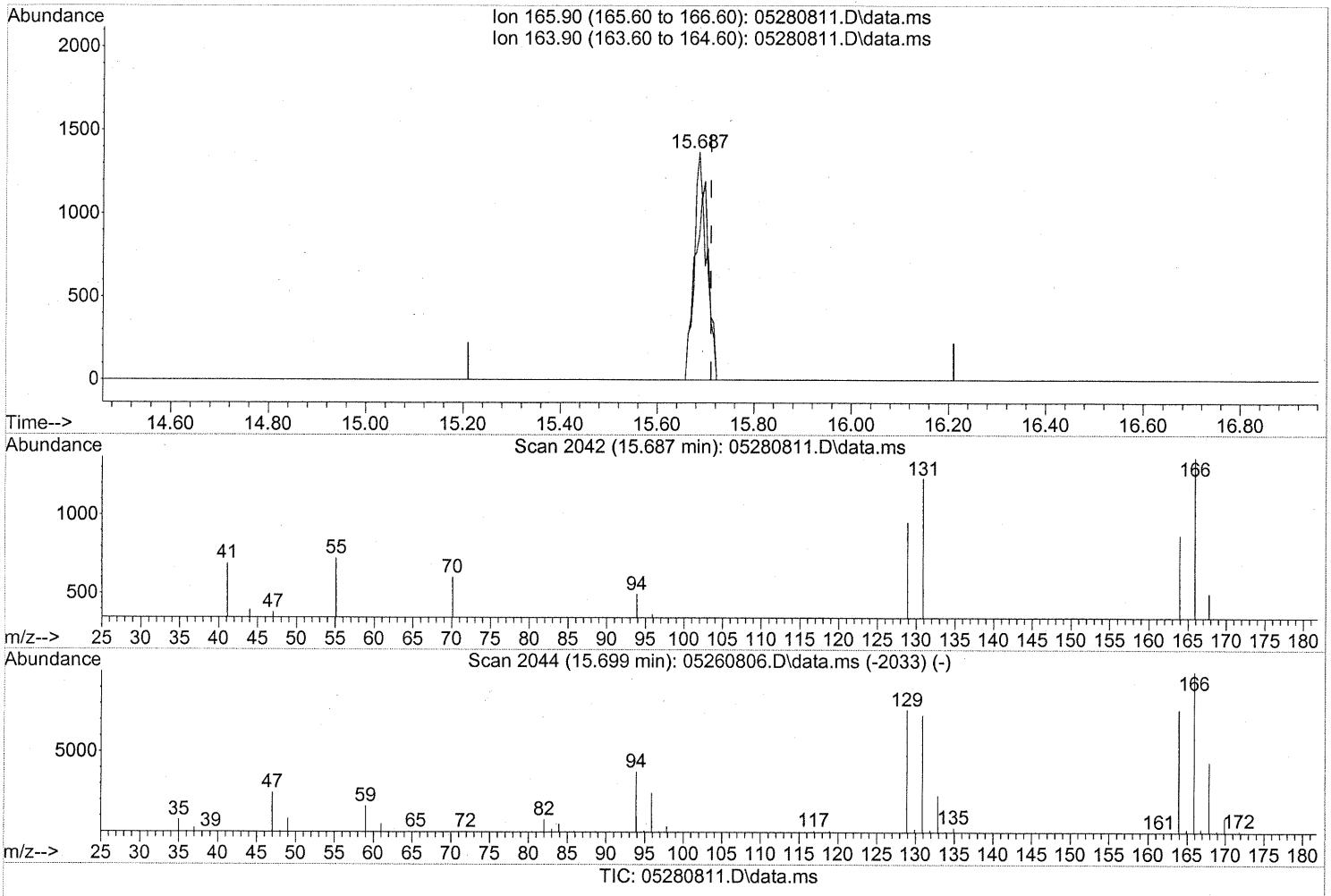
response 18607

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.62
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(64) Tetrachloroethene (T)

15.687min (-0.024) 0.12ng

response 2602

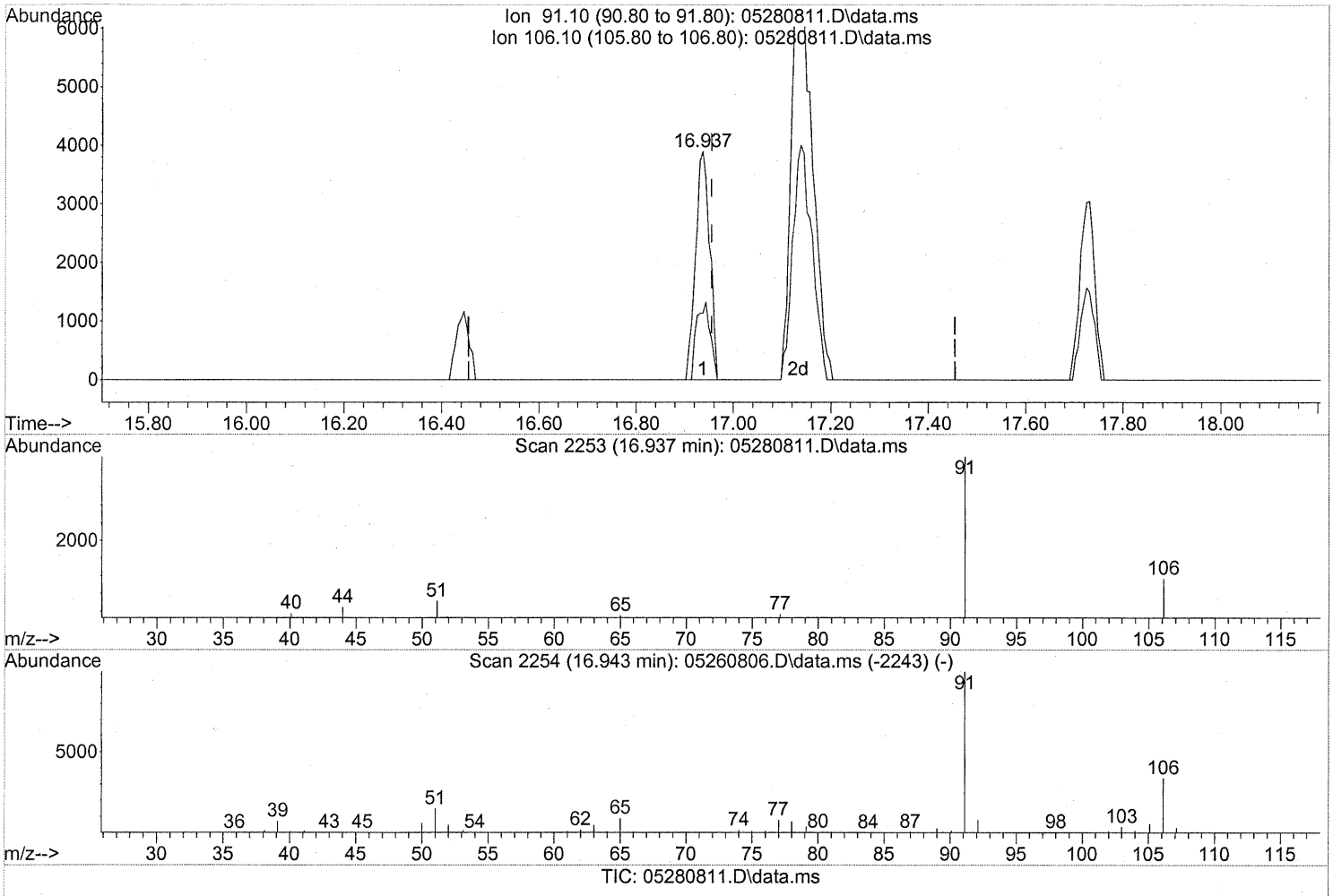
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	84.90
0.00	0.00	0.00
0.00	0.00	0.00

161

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.09ng

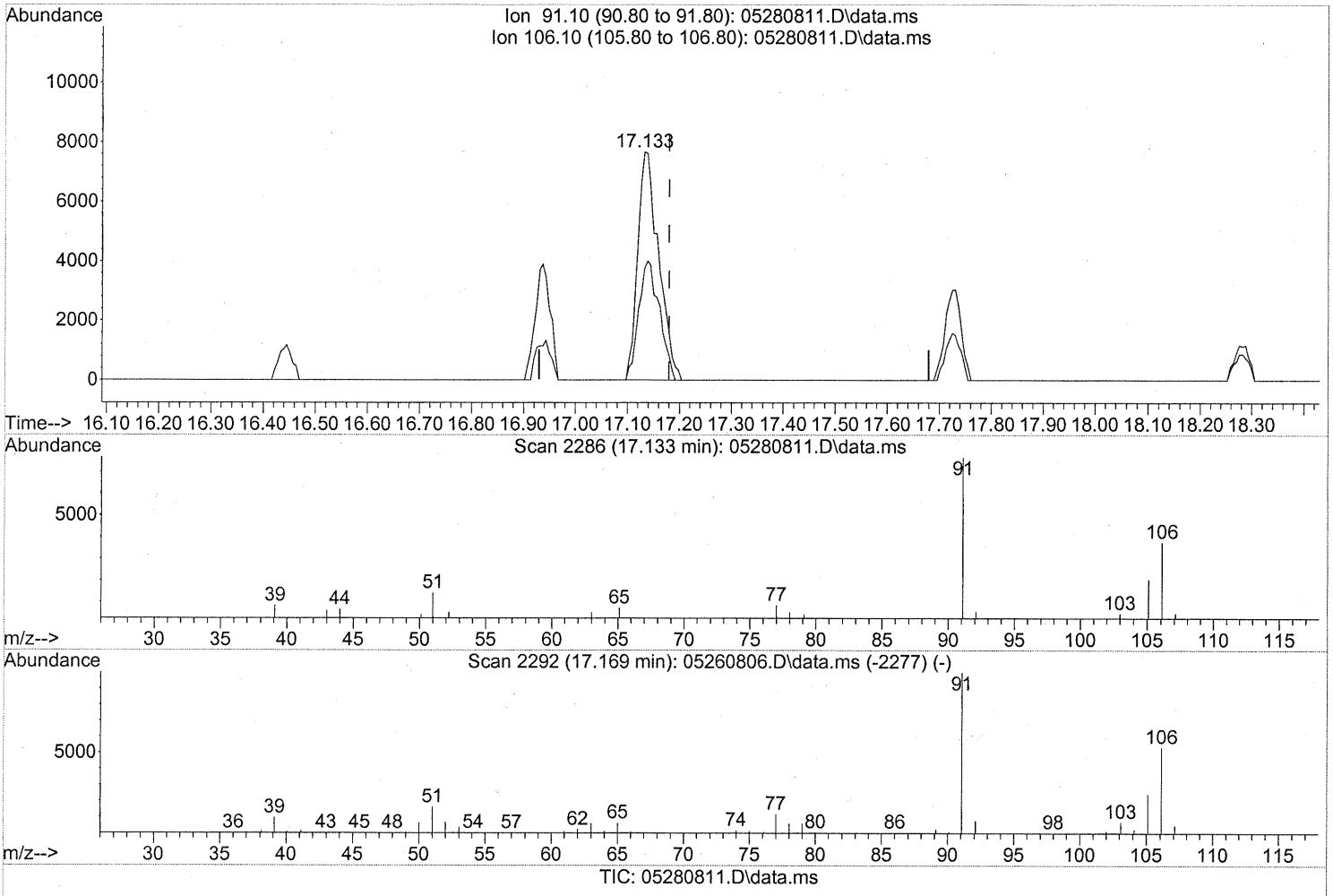
response 7866

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	32.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

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

17.133min (-0.048) 0.39ng

response 21339

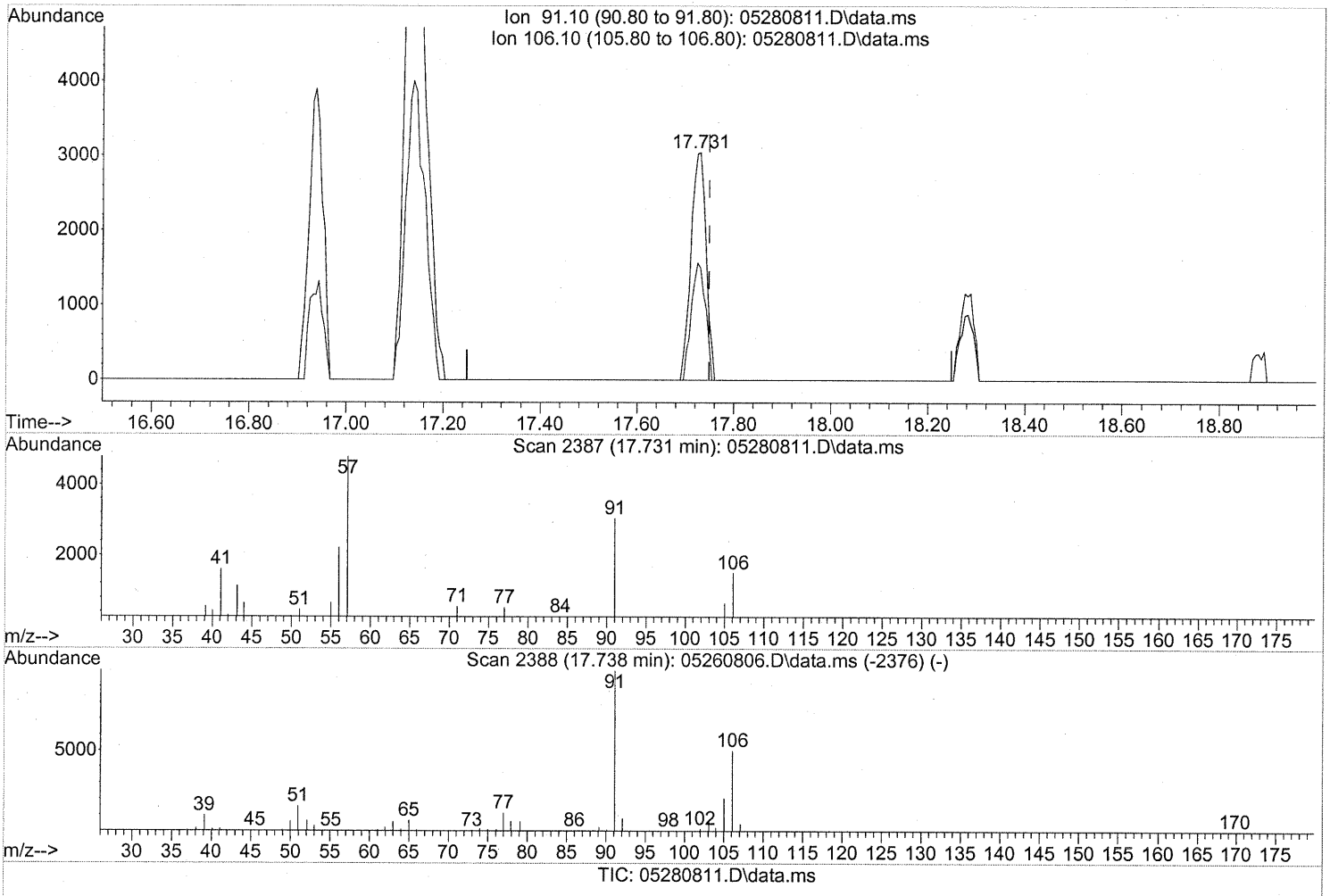
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	51.69
0.00	0.00	0.00
0.00	0.00	0.00

163

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280811.D\data.ms

(70) o-Xylene (T)

17.731min (-0.018) 0.11ng

response 6601

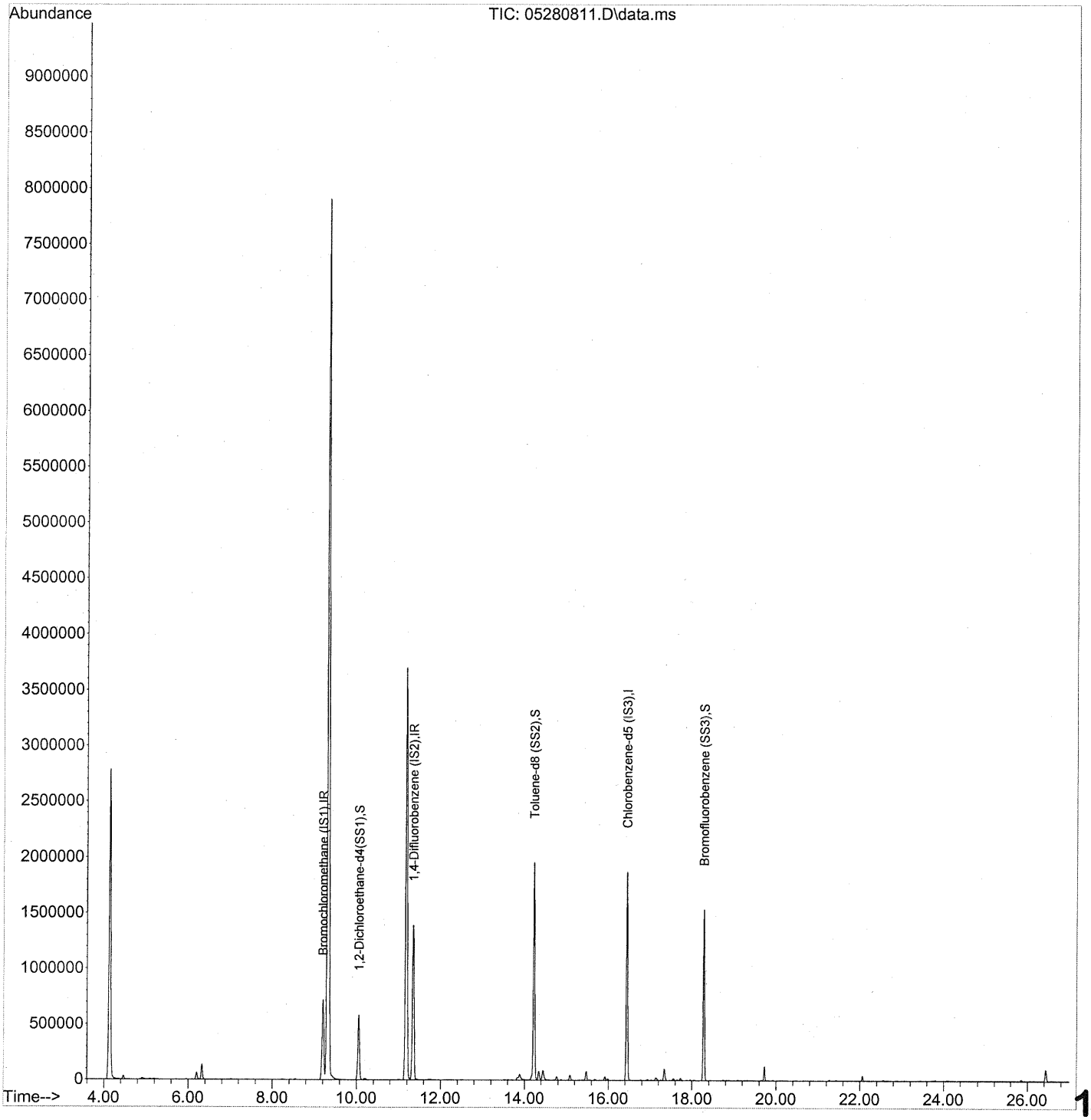
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	48.28
0.00	0.00	0.00
0.00	0.00	0.00

164

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG39B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:47 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280811.D
Acq On : 28 May 2008 16:35
Operator : WA
Sample : P0801507-003 (10ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:47 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

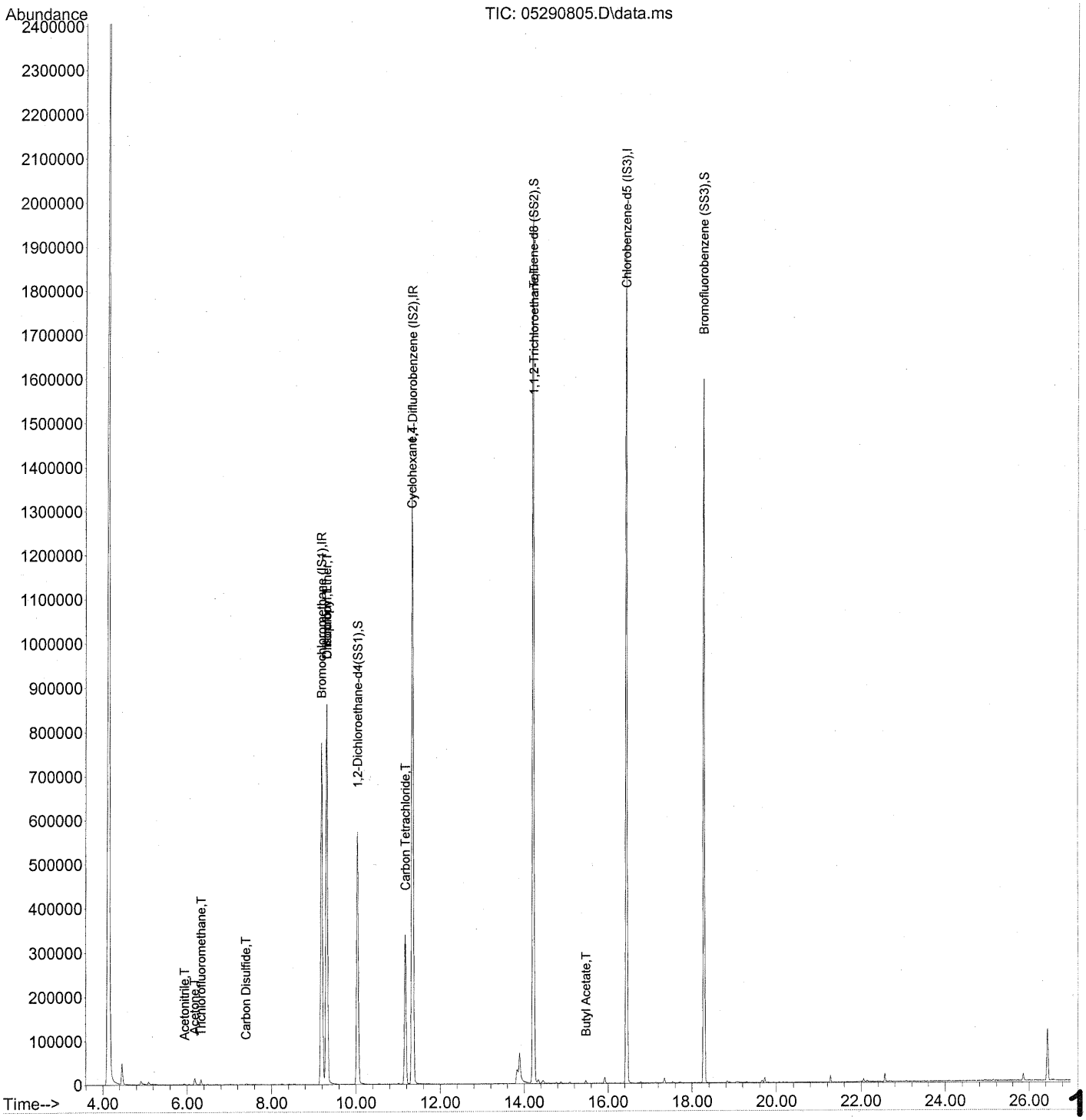
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	374160	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.35	114	1530320	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	627102	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	530224	24.783	ng	-0.04
Spiked Amount 25.000			Recovery =	99.12%		
5) Toluene-d8 (SS2)	14.22	98	1556601	24.077	ng	-0.02
Spiked Amount 25.000			Recovery =	96.32%		
6) Bromofluorobenzene (SS3)	18.28	174	548184	25.503	ng	-0.01
Spiked Amount 25.000			Recovery =	102.00%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.72	119	1392	N.D.		
8) n-Butylbenzene	0.00	91	0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32 am
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32 am
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	381287	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1569012	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	645319	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	539213	24.732	ng		-0.05
Spiked Amount 25.000			Recovery =	98.92%			
57) Toluene-d8 (SS2)	14.22	98	1598300	24.024	ng		-0.02
Spiked Amount 25.000			Recovery =	96.08%			
73) Bromofluorobenzene (SS3)	18.28	174	574670	25.980	ng		-0.01
Spiked Amount 25.000			Recovery =	103.92%			
Target Compounds							Qvalue
2) Propene	4.46	42	1036	N.D.			
3) Dichlorodifluoromethane	0.00	85	0	N.D.			
4) Chloromethane	4.77	50	92	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	0.00	45	0	N.D.			
11) Acetonitrile	5.94	41	3038	0.053	ng	#	1
12) Acrolein	6.05	56	653	N.D.			
13) Acetone	6.18	58	8473	0.425	ng	#	62
14) Trichlorofluoromethane	6.33	101	12164	0.364	ng		99
15) Isopropanol	6.40	45	345	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	7.03	84	388	N.D.			
20) Allyl Chloride	7.15	41	90	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	4374	0.071	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	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	9.31	87	93251	6.797	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	92	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32 am
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	861929	38.308	ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	0.00	56	0	N.D.			
41) Benzene	11.01	78	2601	N.D.			
42) Carbon Tetrachloride	11.17	117	292024	10.762	ng		98
43) Cyclohexane	11.33	84	1750	0.068	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	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	99	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	14.24	97	137143	8.524	ng	#	7
58) Toluene	14.34	91	3395	N.D.			
59) 2-Hexanone	14.58	43	480	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	4313	0.060	ng	#	69
63) n-Octane	15.47	57	1104	N.D.			
64) Tetrachloroethene	0.00	166	0	N.D.			
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	965	N.D.			
67) m- & p-Xylene	17.13	91	2392	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	647	N.D.			
71) n-Nonane	17.96	43	368	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.45	105	90	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	19.18	105	261	N.D.			
78) 4-Ethyltoluene	19.33	105	106	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	106	N.D.			

6/2/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32 am
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

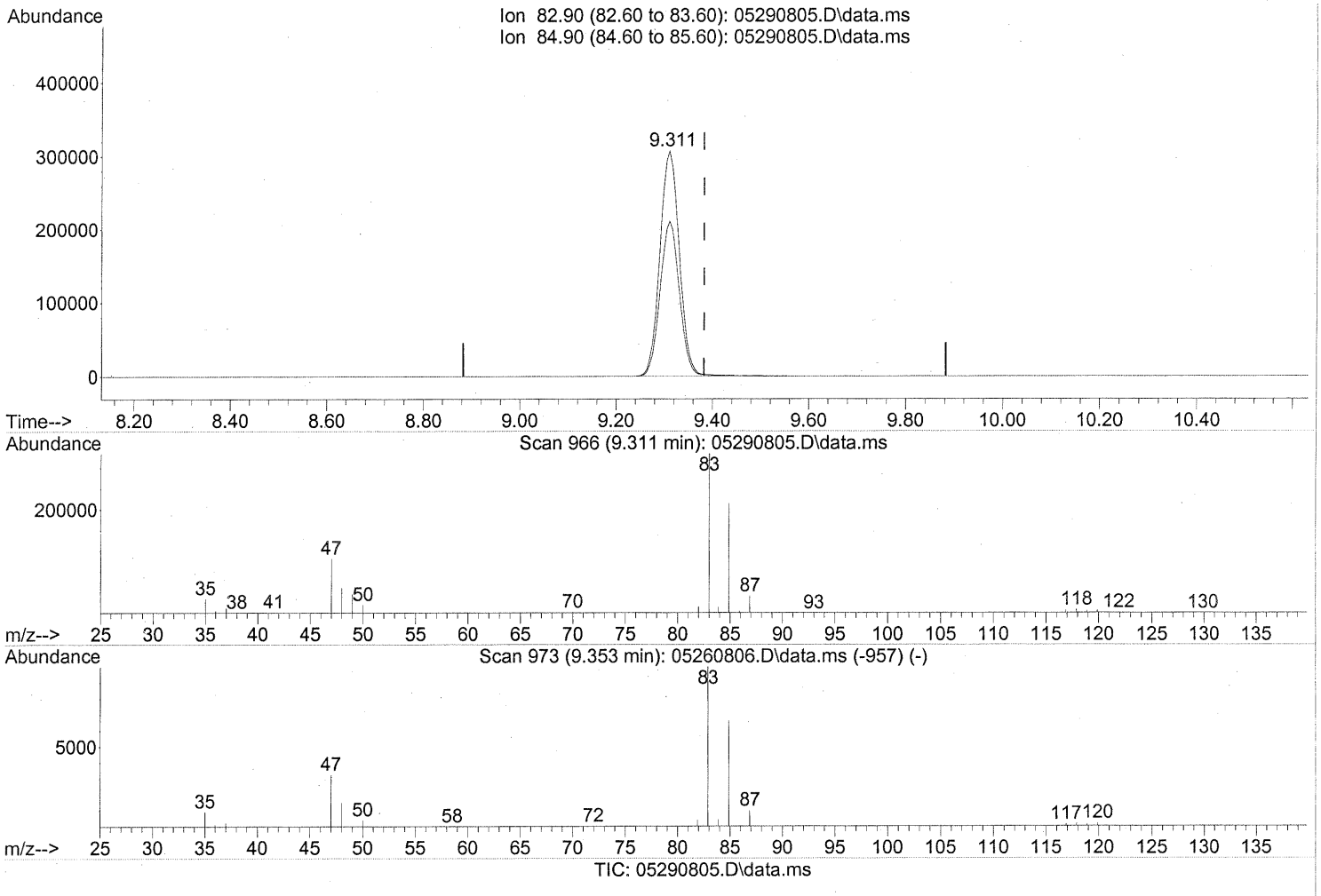
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.82	105	263	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	263	N.D.	
83) n-Decane	19.92	57	219	N.D.	
84) Benzyl Chloride	19.99	91	222	N.D.	
85) 1,3-Dichlorobenzene	20.10	146	207	N.D.	
86) 1,4-Dichlorobenzene	20.10	146	207	N.D.	
87) sec-Butylbenzene	20.34	105	110	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	110	N.D.	
90) 1,2-Dichlorobenzene	20.52	146	99	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	21.43	57	99	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	2804	N.D.	
96) n-Dodecane	22.67	57	145	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:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32 am
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290805.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 38.31ng

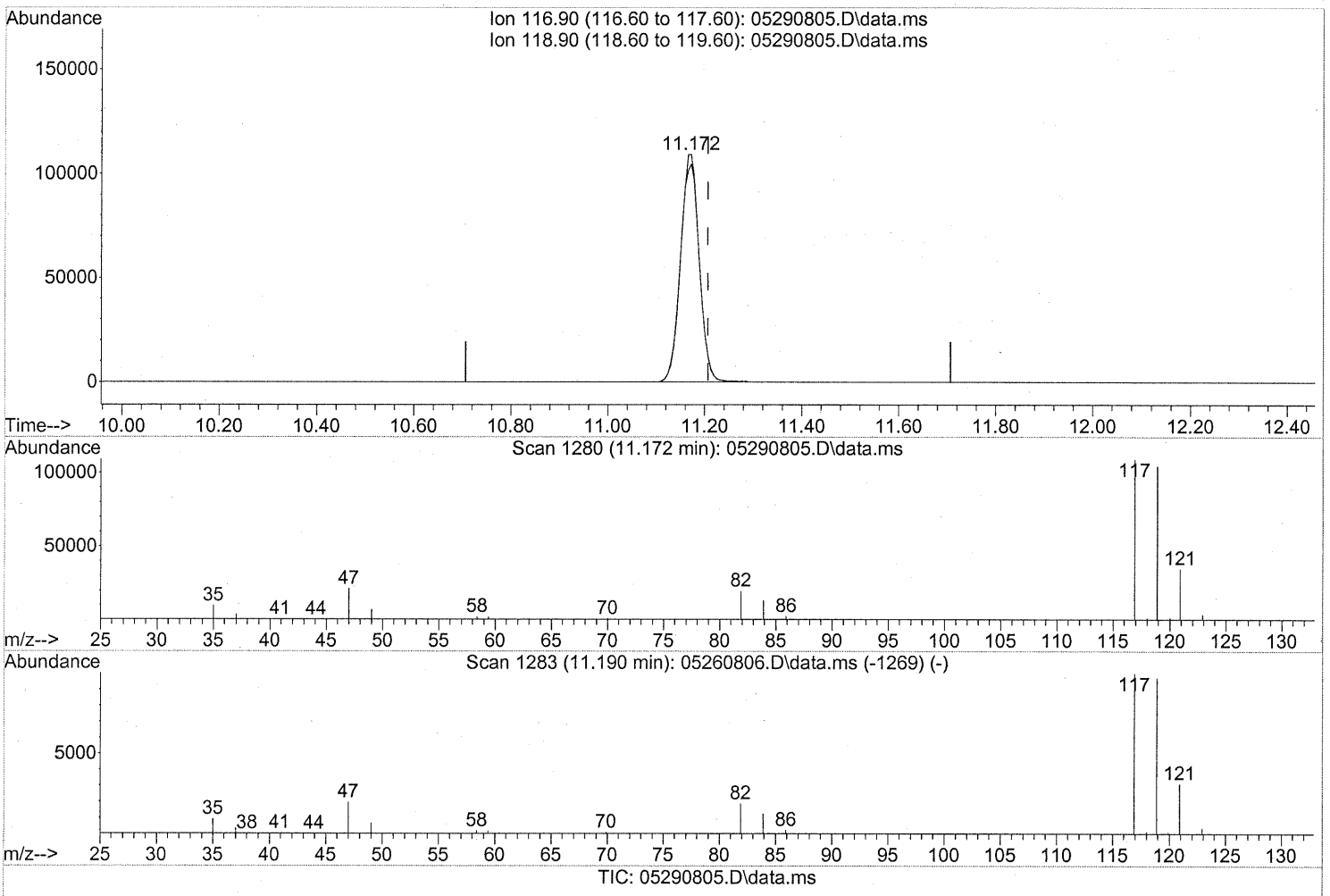
response 861929

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290805.D
Acq On : 29 May 2008 11:32
Operator : WA
Sample : P0801507-003 Dil (1.0ml)
Misc : ENSR SG29B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:48:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290805.D\data.ms

(42) Carbon Tetrachloride (T)

11.172min (-0.036) 10.76ng

response 292024

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	97.36
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG59B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00987

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	43	4.3	ND	8.8	0.88	
74-87-3	Chloromethane	ND	8.7	4.3	ND	4.2	2.1	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	43	4.3	ND	6.2	0.62	
75-01-4	Vinyl Chloride	ND	8.7	4.3	ND	3.4	1.7	
74-83-9	Bromomethane	ND	8.7	4.3	ND	2.2	1.1	
75-00-3	Chloroethane	ND	8.7	4.3	ND	3.3	1.6	
64-17-5	Ethanol	ND	430	4.3	ND	230	2.3	
67-64-1	**Acetone**	**35**	430	6.3	**15**	180	2.7	**J, B**
75-69-4	**Trichlorofluoromethane**	**230**	8.7	4.3	**42**	1.5	0.77	
107-13-1	Acrylonitrile	ND	43	6.1	ND	20	2.8	
75-35-4	1,1-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	43	6.4	ND	14	2.1	
75-09-2	**Methylene Chloride**	**4.3**	43	4.3	**1.2**	12	1.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	8.7	4.3	ND	2.8	1.4	
76-13-1	Trichlorotrifluoroethane	ND	8.7	4.8	ND	1.1	0.63	
75-15-0	Carbon Disulfide	ND	43	10	ND	14	3.3	
156-60-5	trans-1,2-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
75-34-3	1,1-Dichloroethane	ND	8.7	4.3	ND	2.1	1.1	
1634-04-4	Methyl tert-Butyl Ether	ND	8.7	4.3	ND	2.4	1.2	
108-05-4	Vinyl Acetate	ND	430	14	ND	120	3.9	
78-93-3	2-Butanone (MEK)	ND	43	4.3	ND	15	1.5	
156-59-2	cis-1,2-Dichloroethene	ND	8.7	4.3	ND	2.2	1.1	
108-20-3	Diisopropyl Ether	ND	43	5.1	ND	10	1.2	
67-66-3	**Chloroform**	**17,000**	8.7	5.1	**3,500**	1.8	1.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG59B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-004

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00987

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	43	4.4	ND	10	1.1	
107-06-2	1,2-Dichloroethane	ND	8.7	4.3	ND	2.1	1.1	
71-55-6	1,1,1-Trichloroethane	ND	8.7	4.3	ND	1.6	0.79	
71-43-2	**Benzene**	**8.7**	8.7	4.3	**2.7**	2.7	1.4	**B**
56-23-5	**Carbon Tetrachloride**	**160**	8.7	4.3	**26**	1.4	0.69	
994-05-8	tert-Amyl Methyl Ether	ND	43	4.3	ND	10	1.0	
78-87-5	1,2-Dichloropropane	ND	8.7	4.3	ND	1.9	0.94	
75-27-4	Bromodichloromethane	ND	8.7	4.3	ND	1.3	0.65	
79-01-6	Trichloroethene	ND	8.7	4.3	ND	1.6	0.81	
123-91-1	1,4-Dioxane	ND	43	5.3	ND	12	1.5	
80-62-6	Methyl Methacrylate	ND	43	6.5	ND	11	1.6	
142-82-5	n-Heptane	ND	43	5.5	ND	11	1.4	
10061-01-5	cis-1,3-Dichloropropene	ND	43	4.5	ND	9.5	0.99	
108-10-1	4-Methyl-2-pentanone	ND	43	4.8	ND	11	1.2	
10061-02-6	trans-1,3-Dichloropropene	ND	43	5.4	ND	9.5	1.2	
79-00-5	1,1,2-Trichloroethane	ND	8.7	4.3	ND	1.6	0.79	
108-88-3	**Toluene**	**67**	43	4.3	**18**	11	1.1	
591-78-6	2-Hexanone	ND	43	6.6	ND	11	1.6	
124-48-1	Dibromochloromethane	ND	8.7	5.9	ND	1.0	0.69	
106-93-4	1,2-Dibromoethane	ND	8.7	4.7	ND	1.1	0.61	
111-65-9	**n-Octane**	**85**	43	4.3	**18**	9.3	0.93	
127-18-4	**Tetrachloroethene**	**8.0**	8.7	4.3	**1.2**	1.3	0.64	**J**
108-90-7	Chlorobenzene	ND	8.7	4.4	ND	1.9	0.96	

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: Cas Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG59B-05** CAS Sample ID: P0801507-004
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/19/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.020 Liter(s)
Test Notes: 0.0020 Liter(s)
Container ID: SC00987

Initial Pressure (psig): -4.2 Final Pressure (psig): 3.5

Canister Dilution Factor: 1.73

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**10**	43	5.4	**2.3**	10	1.2	**J**
179601-23-1	**m,p-Xylenes**	**48**	43	11	**11**	10	2.6	
75-25-2	Bromoform	ND	43	6.6	ND	4.2	0.64	
100-42-5	Styrene	ND	43	6.6	ND	10	1.5	
95-47-6	**o-Xylene**	**15**	43	5.4	**3.5**	10	1.3	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.7	5.5	ND	1.3	0.81	
98-82-8	Cumene	ND	43	4.8	ND	8.8	0.99	
103-65-1	n-Propylbenzene	ND	43	4.5	ND	8.8	0.92	
622-96-8	4-Ethyltoluene	ND	43	4.9	ND	8.8	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	43	5.2	ND	8.8	1.1	
98-83-9	alpha-Methylstyrene	ND	43	6.3	ND	9.0	1.3	
95-63-6	1,2,4-Trimethylbenzene	ND	43	6.0	ND	8.8	1.2	
100-44-7	Benzyl Chloride	ND	8.7	7.4	ND	1.7	1.4	
541-73-1	1,3-Dichlorobenzene	ND	8.7	5.4	ND	1.4	0.89	
106-46-7	**1,4-Dichlorobenzene**	**23**	8.7	4.8	**3.9**	1.4	0.81	
135-98-8	sec-Butylbenzene	ND	43	5.0	ND	7.9	0.91	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	43	5.6	ND	7.9	1.0	
95-50-1	1,2-Dichlorobenzene	ND	8.7	5.7	ND	1.4	0.95	
96-12-8	1,2-Dibromo-3-chloropropane	ND	43	6.6	ND	4.5	0.68	
120-82-1	1,2,4-Trichlorobenzene	ND	8.7	6.6	ND	1.2	0.89	
91-20-3	Naphthalene	ND	17	6.4	ND	3.3	1.2	
87-68-3	Hexachlorobutadiene	ND	8.7	7.8	ND	0.81	0.73	
98-06-6	tert-Butylbenzene	ND	17	4.3	ND	3.2	0.79	
104-51-8	n-Butylbenzene	ND	17	4.3	ND	3.2	0.79	

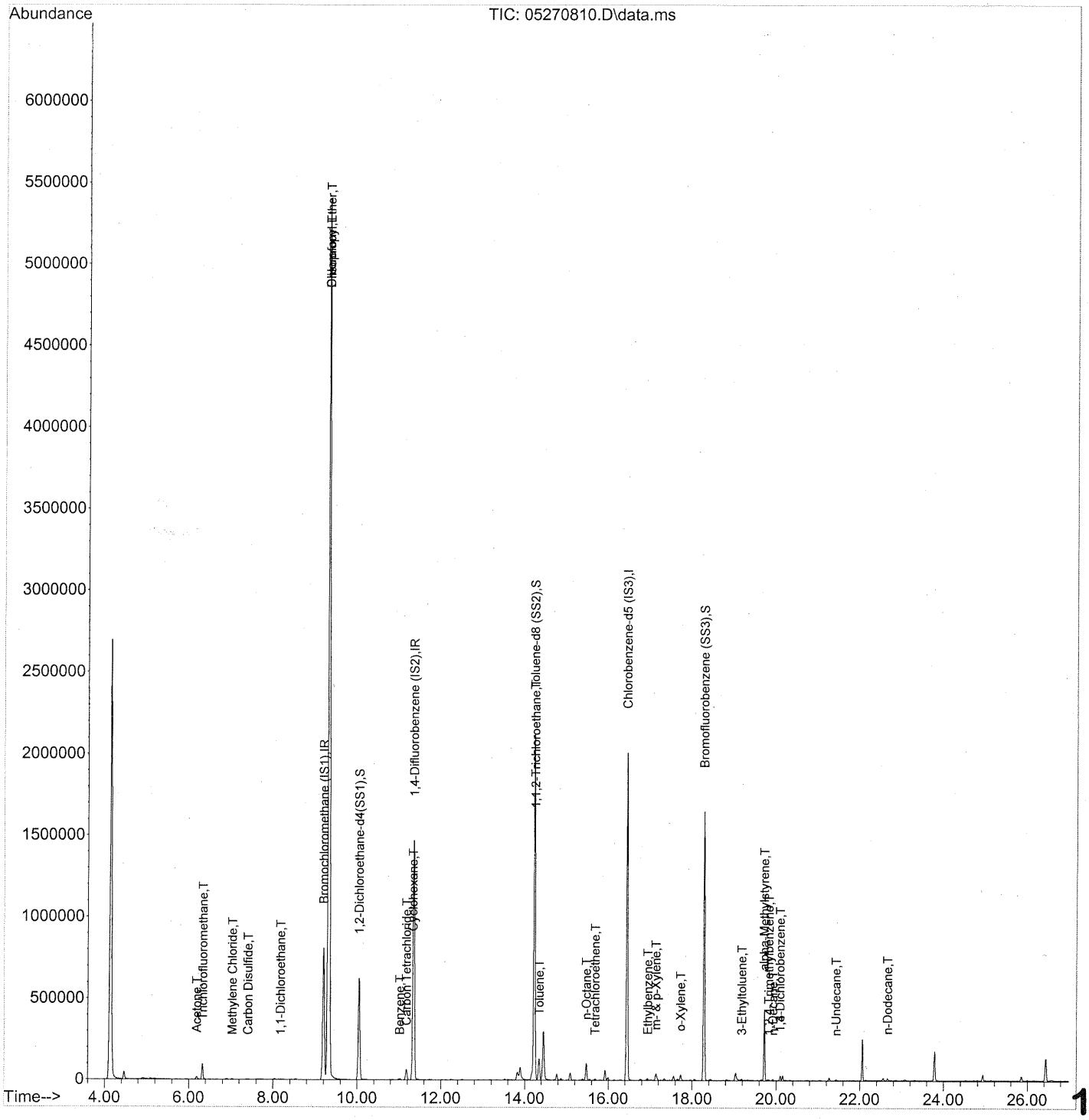
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	406437	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1677305	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	674760	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	570492	24.548	ng		-0.05
Spiked Amount 25.000			Recovery = 98.20%				
57) Toluene-d8 (SS2)	14.23	98	1700871	24.450	ng		-0.02
Spiked Amount 25.000			Recovery = 97.80%				
73) Bromofluorobenzene (SS3)	18.28	174	593854	25.676	ng		-0.01
Spiked Amount 25.000			Recovery = 102.72%				
Target Compounds							Qvalue
2) Propene	4.46	42	1427	N.D.			
3) Dichlorodifluoromethane	4.56	85	773	N.D.			
4) Chloromethane	4.76	50	110	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	5.68	45	693	N.D.			
11) Acetonitrile	5.95	41	2766	N.D.			
12) Acrolein	6.08	56	708	N.D.			
13) Acetone	6.19	58	8508	0.401	ng	#	62
14) Trichlorofluoromethane	6.33	101	96053	2.696	ng		99
15) Isopropanol	6.38	45	538	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	7.09	59	90	N.D.			
19) Methylene Chloride	7.03	84	825	0.050	ng	#	9
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.41	76	3690	0.056	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	2214	0.064	ng	#	50
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	516	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	627442	42.901	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	93	N.D.			

177

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	5810600	~~242.269 ng~~	w dil	96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	10.16	62	228	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	10.80	56	699	N.D.		
41) Benzene	11.02	78	7062	0.100 ng		99
42) Carbon Tetrachloride	11.18	117	54780	1.889 ng		99
43) Cyclohexane	11.33	84	2346	0.085 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	12.13	83	406	N.D.		
47) Trichloroethene	0.00	130	0	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.25	57	4361	N.D.		
50) Methyl Methacrylate	0.00	100	0	N.D.		
51) n-Heptane	12.50	71	94	N.D.		
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.		
53) 4-Methyl-2-pentanone	13.19	58	851	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	14.24	97	143346	~~8.334 ng~~	NR #	7
58) Toluene	14.35	91	61279	0.777 ng		98
59) 2-Hexanone	14.59	43	2483	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.38	43	331	N.D.		
63) n-Octane	15.47	57	23438	0.982 ng		94
64) Tetrachloroethene	15.69	166	2166	0.093 ng		100
65) Chlorobenzene	16.50	112	90	N.D.		
66) Ethylbenzene	16.94	91	10473	0.117 ng		91
67) m- & p-Xylene	17.14	91	32961	0.555 ng		91
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.58	104	102	N.D.		
70) o-Xylene	17.73	91	11076	0.174 ng		98
71) n-Nonane	17.97	43	2407	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.45	105	123	N.D.		
75) alpha-Pinene	18.92	93	207	N.D.		
76) n-Propylbenzene	19.07	91	1555	N.D.		
77) 3-Ethyltoluene	19.18	105	6136	0.060 ng		96
78) 4-Ethyltoluene	19.24	105	2205	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	2794	N.D.		

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
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Operator : WA
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Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	3960	~~0.087 ng~~ UR	#	17
81) 2-Ethyltoluene	19.57	105	1969	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	4790	~~0.058 ng~~		100
83) n-Decane	19.92	57	3516	0.060 ng		71
84) Benzyl Chloride	19.99	91	89	N.D.		
85) 1,3-Dichlorobenzene	20.10	146	13594	~~0.261 ng~~ UR		97
86) 1,4-Dichlorobenzene	20.10	146	13594	0.269 ng		97
87) sec-Butylbenzene	20.16	105	91	N.D.		
88) p-Isopropyltoluene	20.34	119	365	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	1470	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	21.43	57	3146	0.052 ng	#	70
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	3243	N.D.		
96) n-Dodecane	22.66	57	5859	0.098 ng	#	71
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:\MS16\DATA\2008_05\27\
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Operator : WA
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Misc : ENSR SG59B-05 (-4.2, 3.5)
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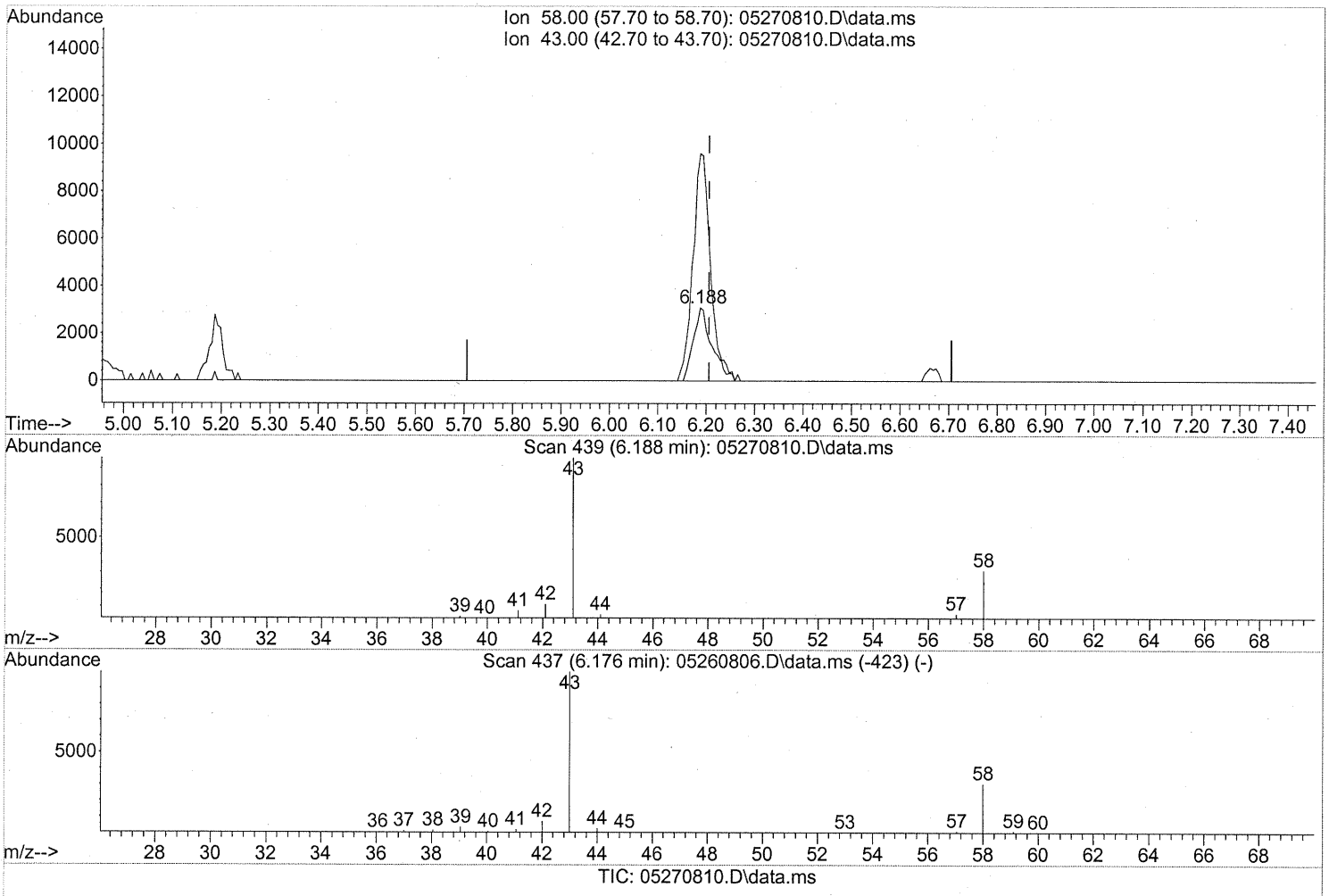
Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 0.40ng

response 8508

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	283.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
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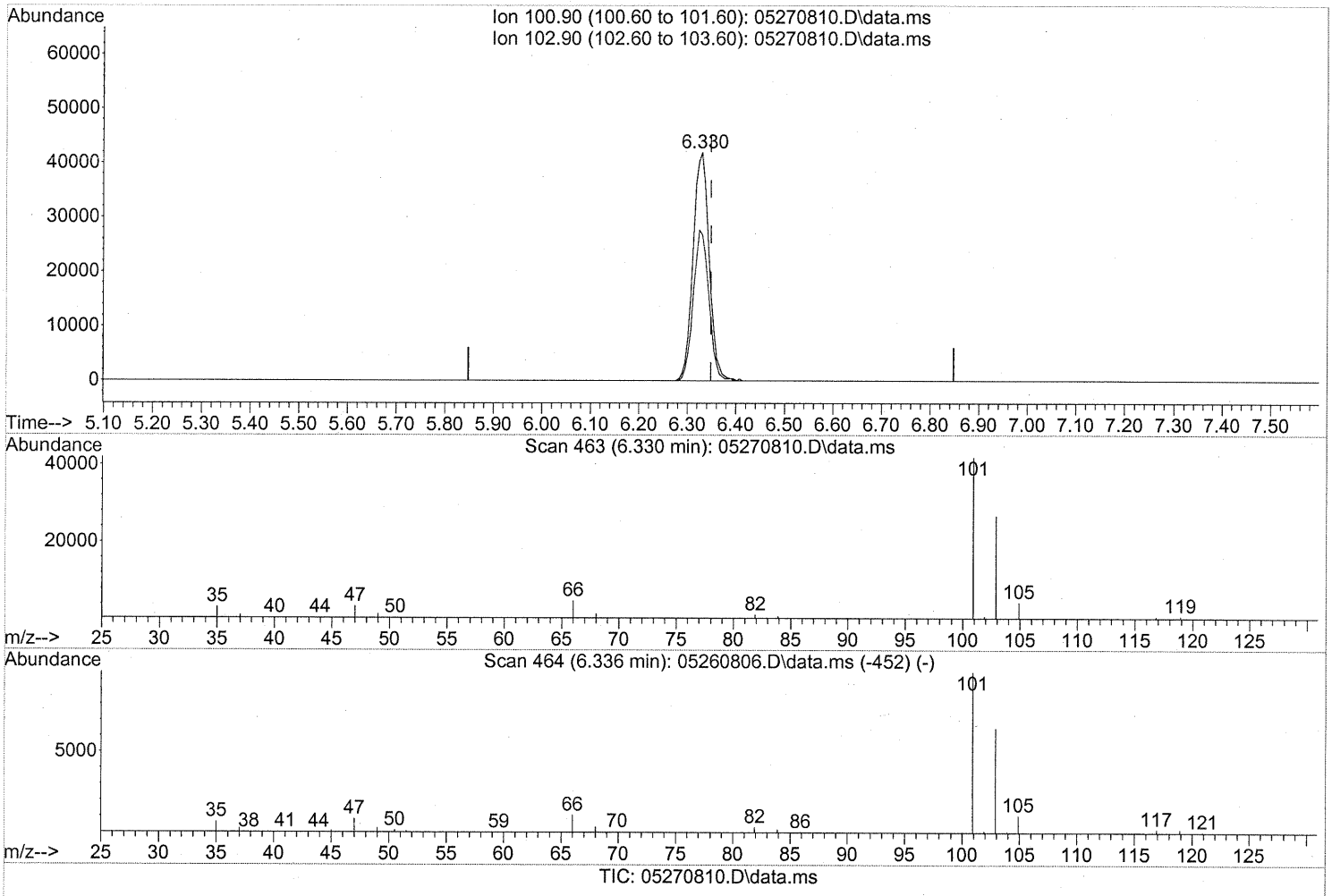

(14) Trichlorofluoromethane (T)

6.330min (-0.018) 2.70ng

response 96053

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	63.87
0.00	0.00	0.00
0.00	0.00	0.00

181

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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Acq On : 27 May 2008 18:34
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Misc : ENSR SG59B-05 (-4.2, 3.5)
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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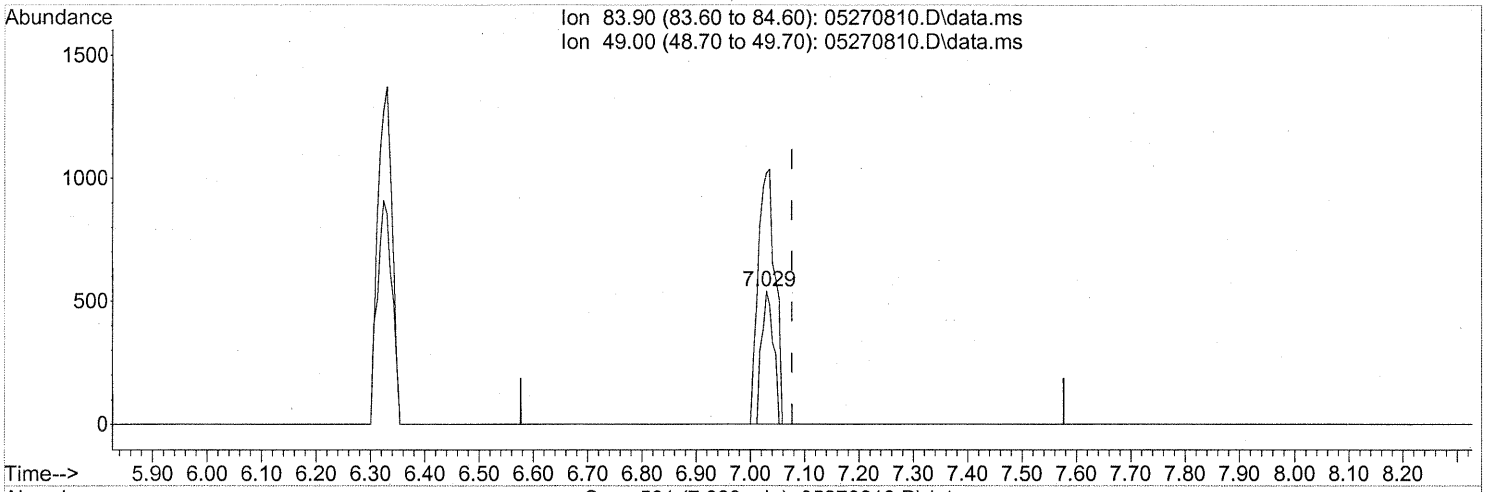

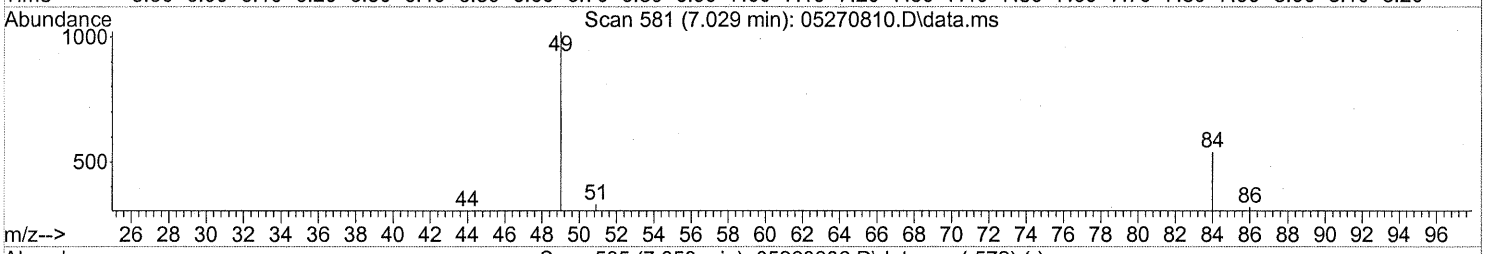

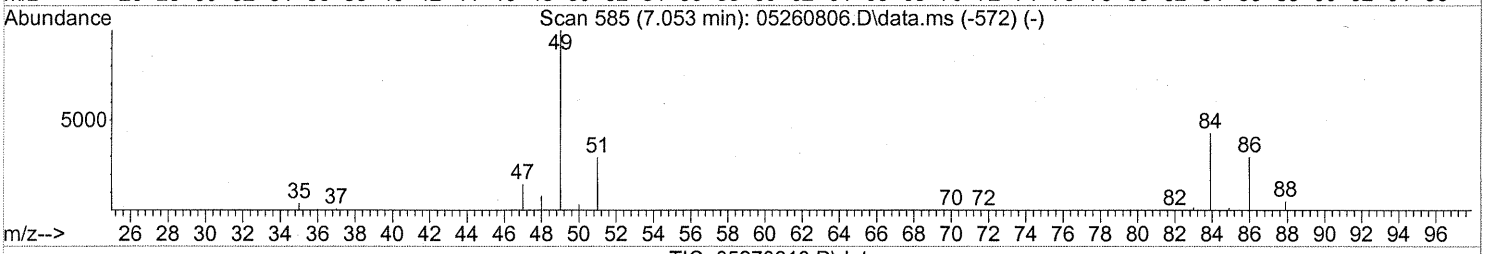

TIC: 05270810.D\data.ms

(19) Methylene Chloride (T)

7.029min (-0.048) 0.05ng

response 825

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	273.45#
0.00	0.00	0.00
0.00	0.00	0.00

182

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
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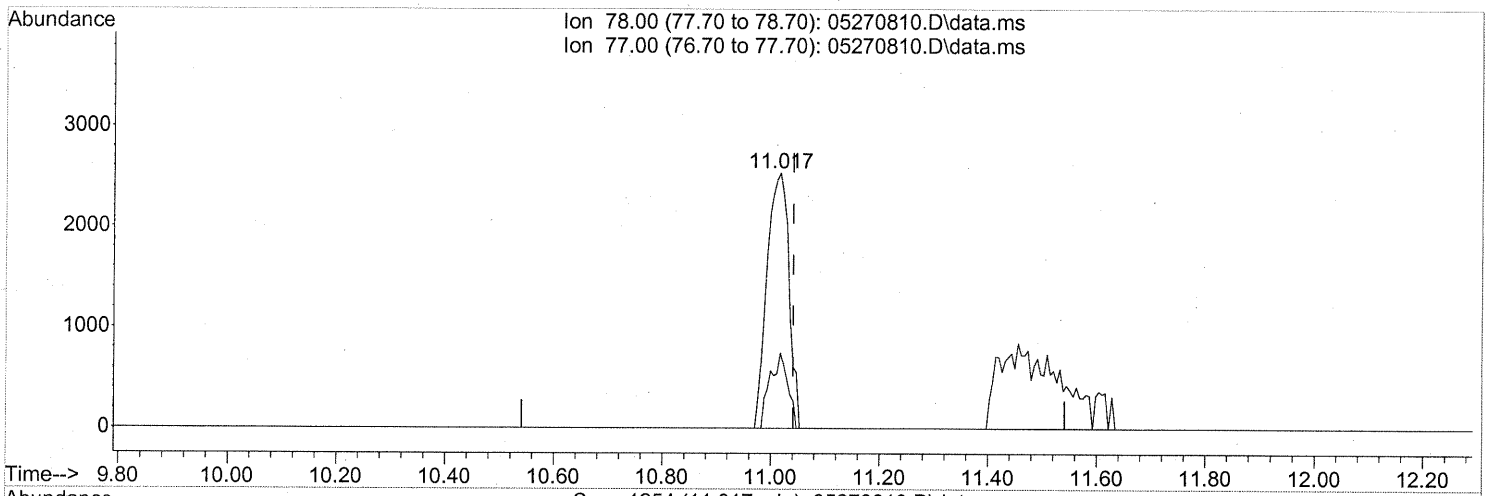
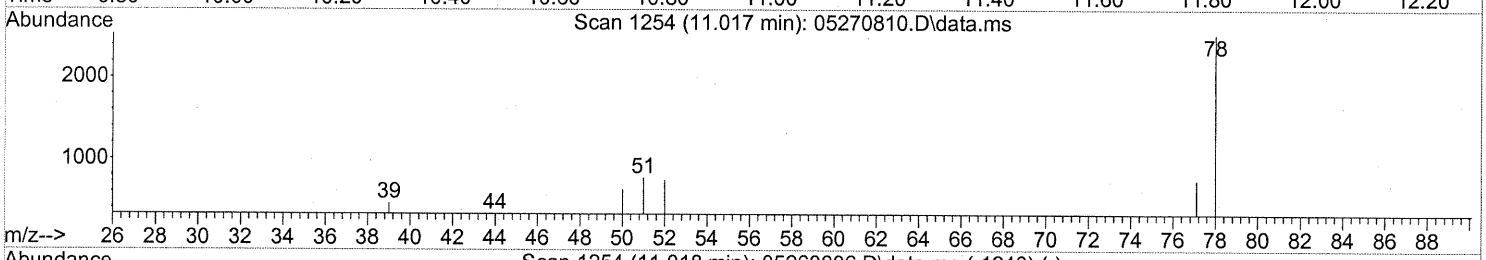
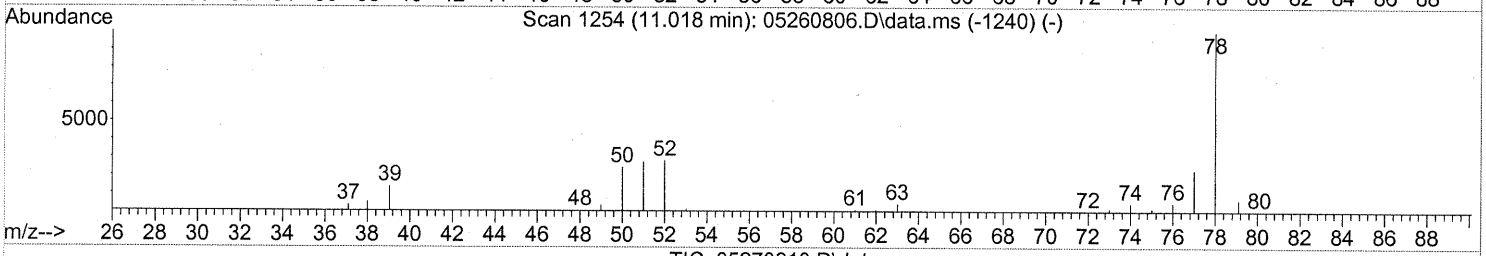
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270810.D\data.ms

(41) Benzene (T)

11.017min (-0.024) 0.10ng

response 7062

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.99
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
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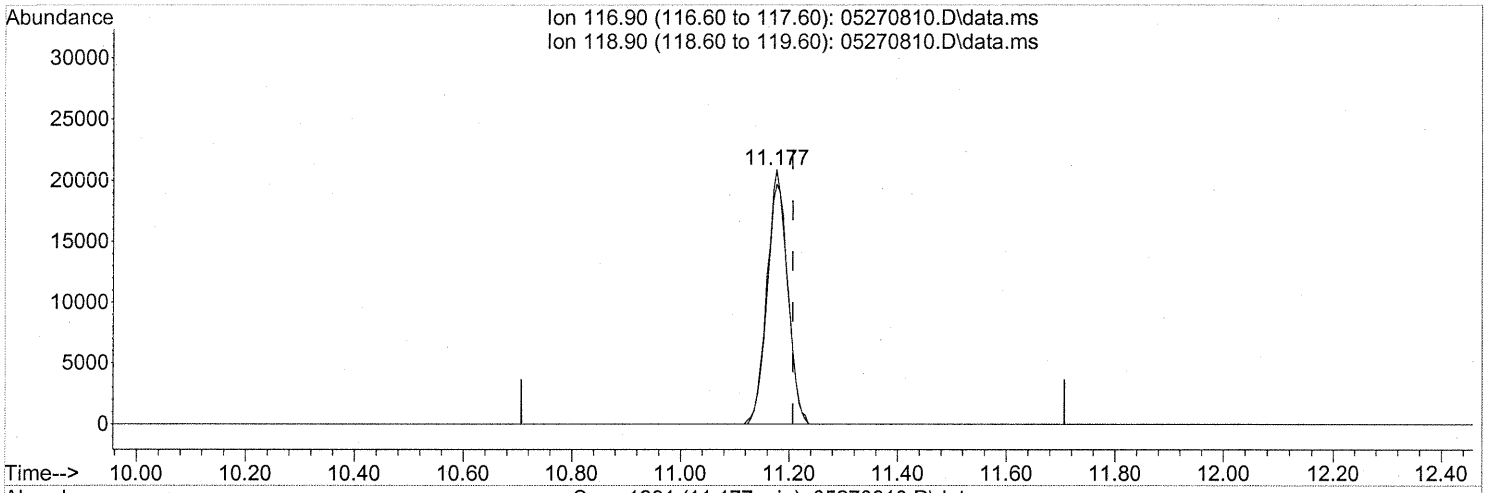
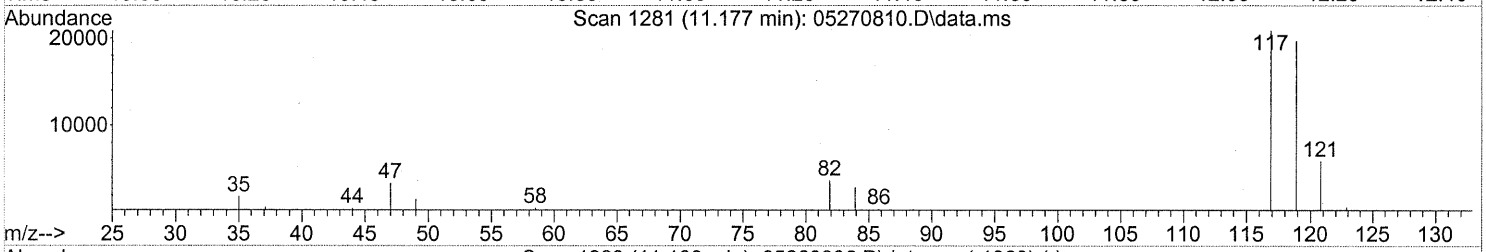
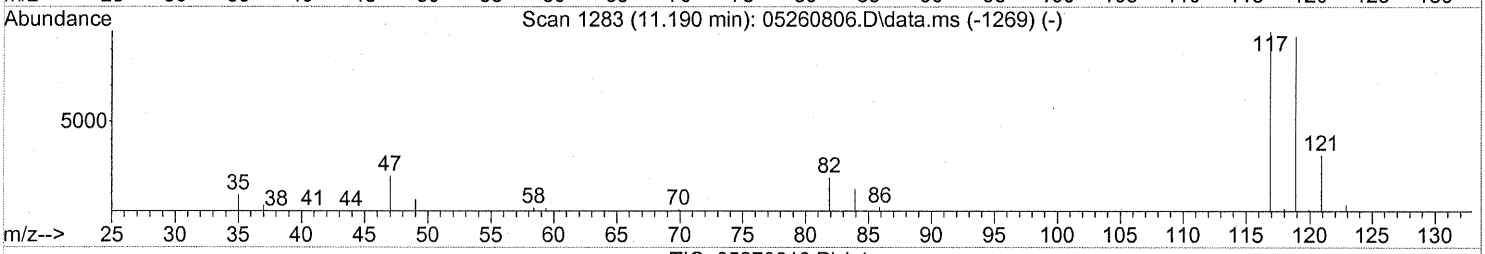
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270810.D\data.ms

(42) Carbon Tetrachloride (T)

11.177min (-0.030) 1.89ng

response 54780

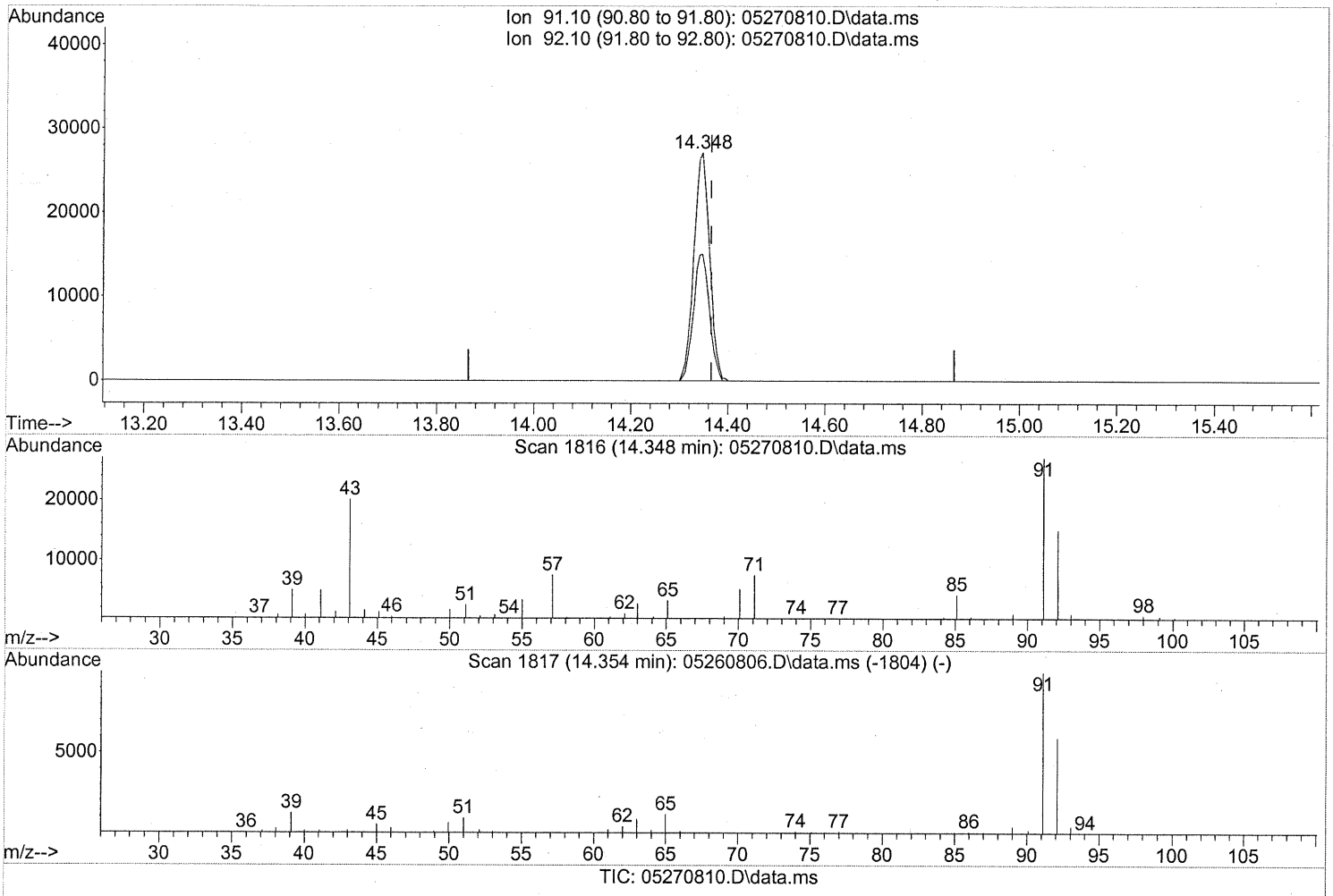
Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.27
0.00	0.00	0.00
0.00	0.00	0.00

184

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 0.78ng

response 61279

Ion	Exp%	Act%
91.10	100	100
92.10	57.80	56.36
0.00	0.00	0.00
0.00	0.00	0.00

185

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
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Misc : ENSR SG59B-05 (-4.2, 3.5)
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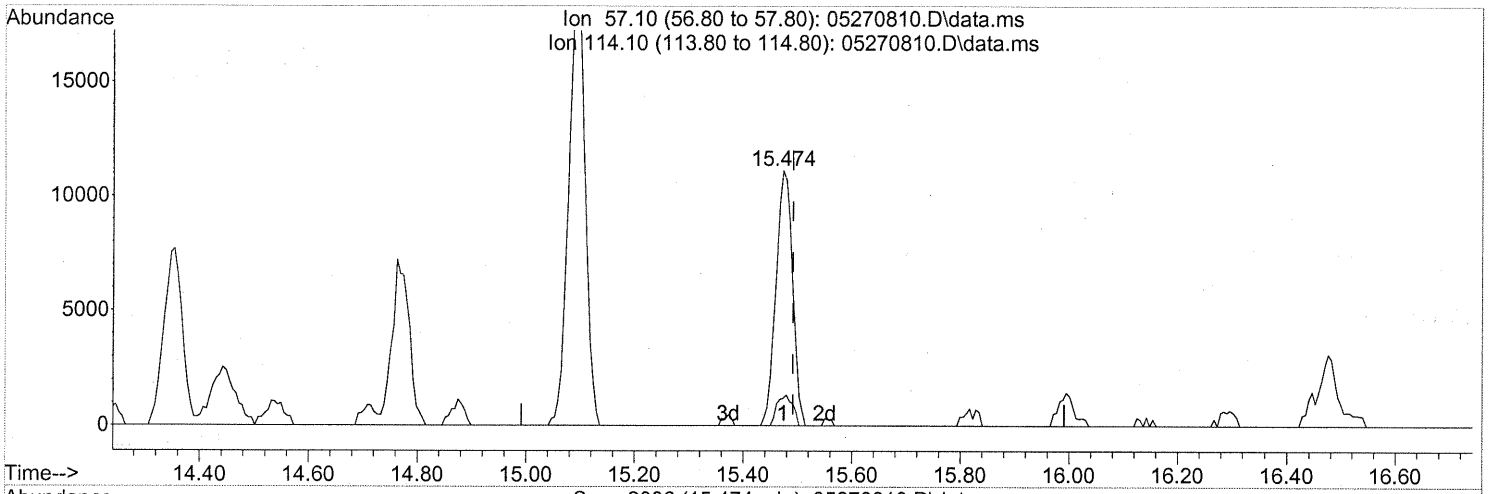
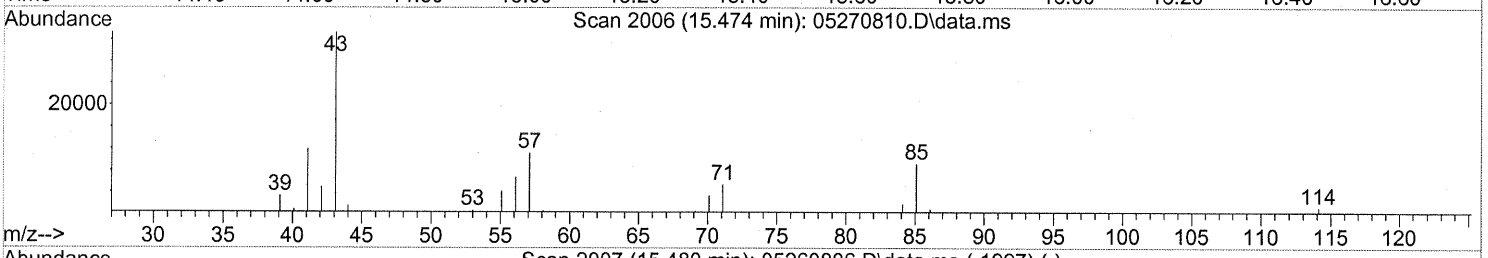
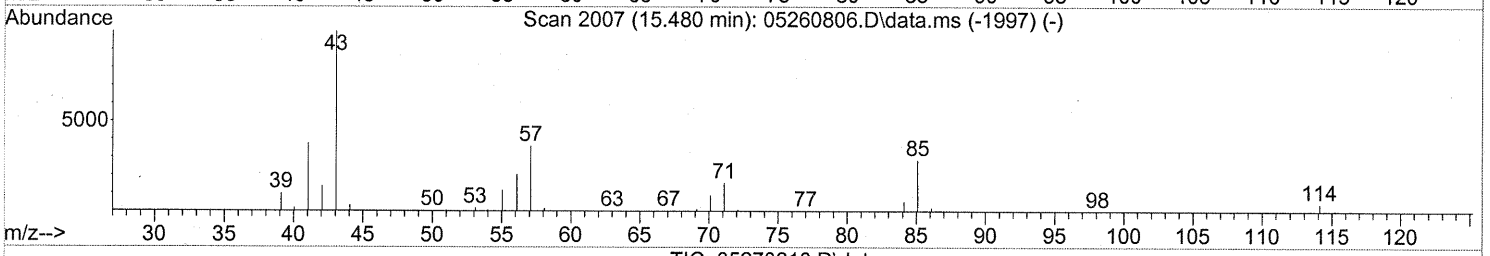
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270810.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.98ng

response 23438

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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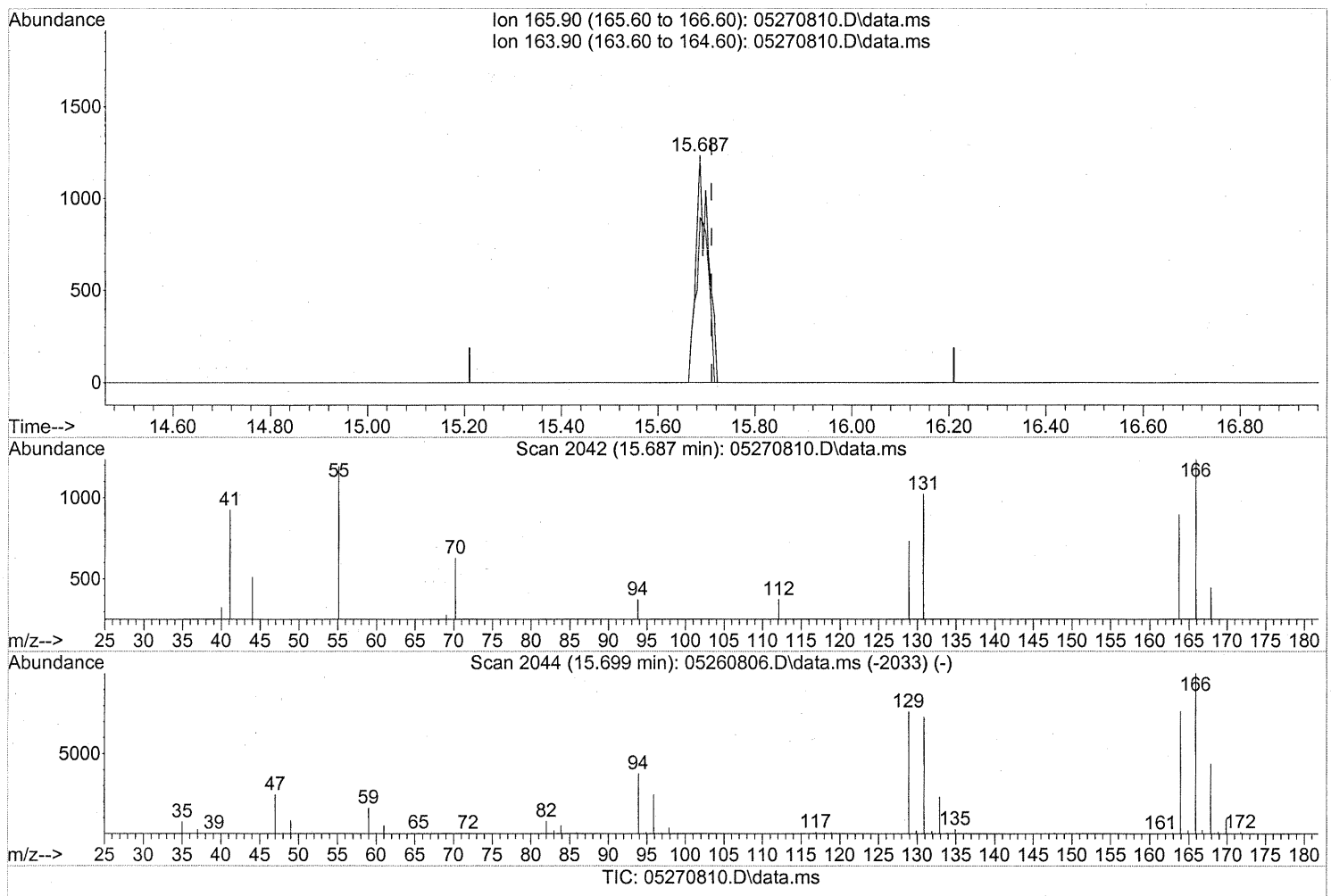
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(64) Tetrachloroethene (T)

15.687min (-0.024) 0.09ng

response 2166

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	77.93
0.00	0.00	0.00
0.00	0.00	0.00

187

Quantitation Report (Qedit)

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Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
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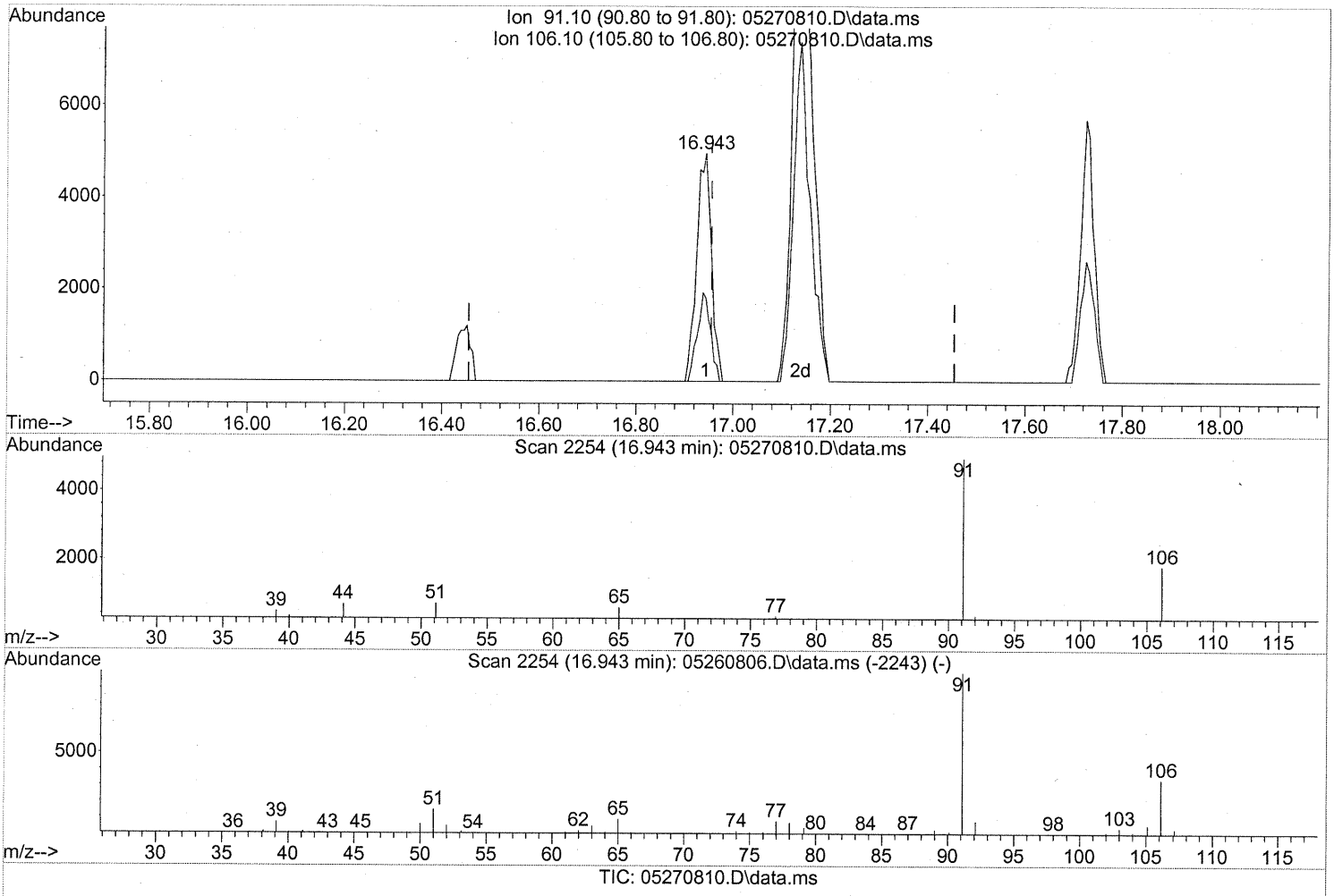
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(66) Ethylbenzene (T)

16.943min (-0.012) 0.12ng

response 10473

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	34.73
0.00	0.00	0.00
0.00	0.00	0.00

188

Quantitation Report (Qedit)

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Data File : 05270810.D
Acq On : 27 May 2008 18:34
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Misc : ENSR SG59B-05 (-4.2, 3.5)
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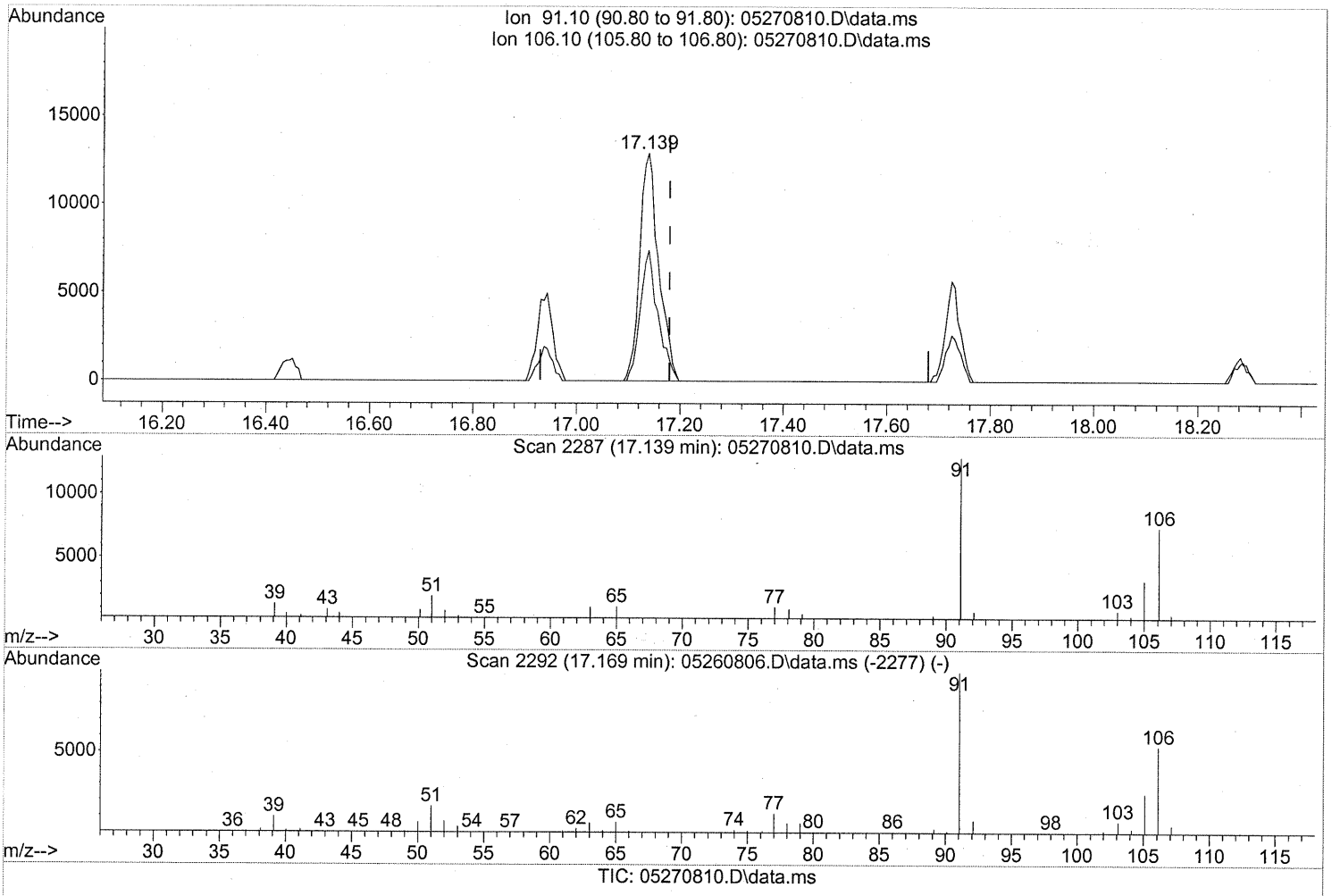
Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

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

17.139min (-0.042) 0.55ng

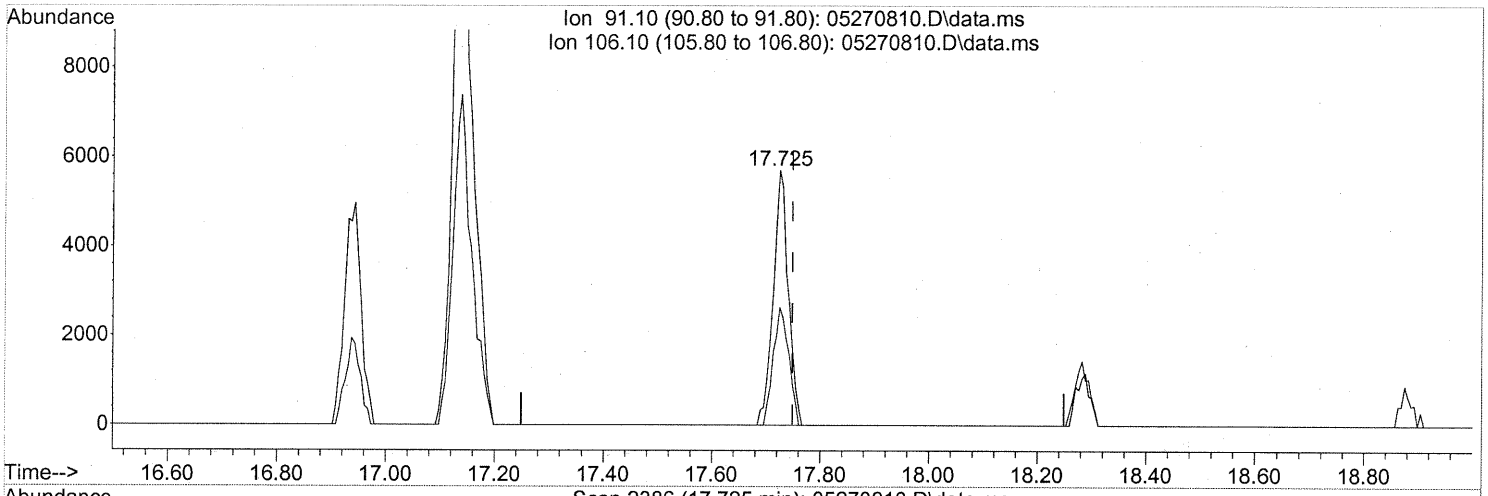
response 32961

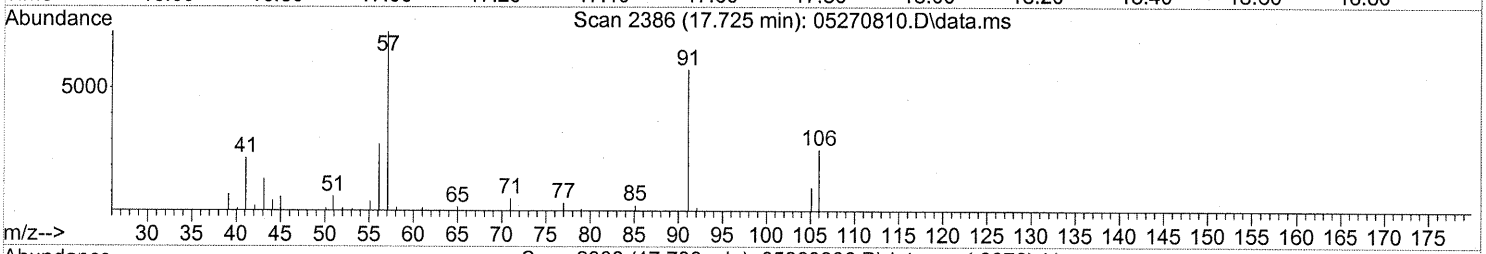
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.81
0.00	0.00	0.00
0.00	0.00	0.00

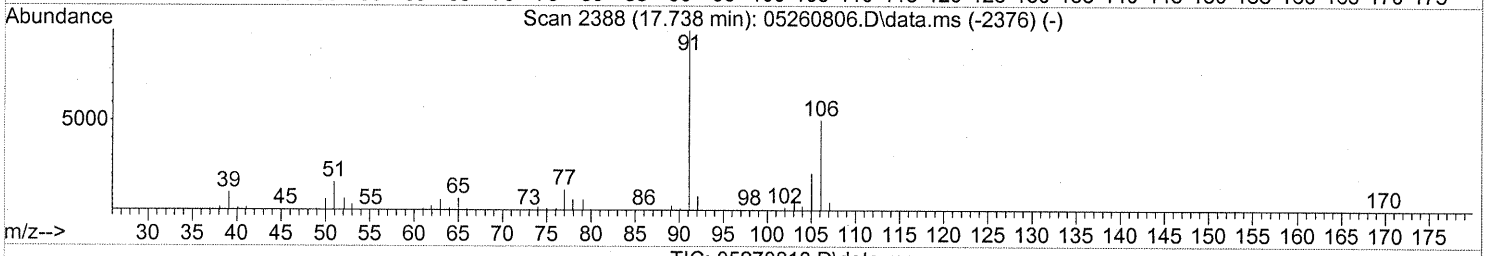
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270810.D\data.ms

(70) o-Xylene (T)

17.725min (-0.024) 0.17ng

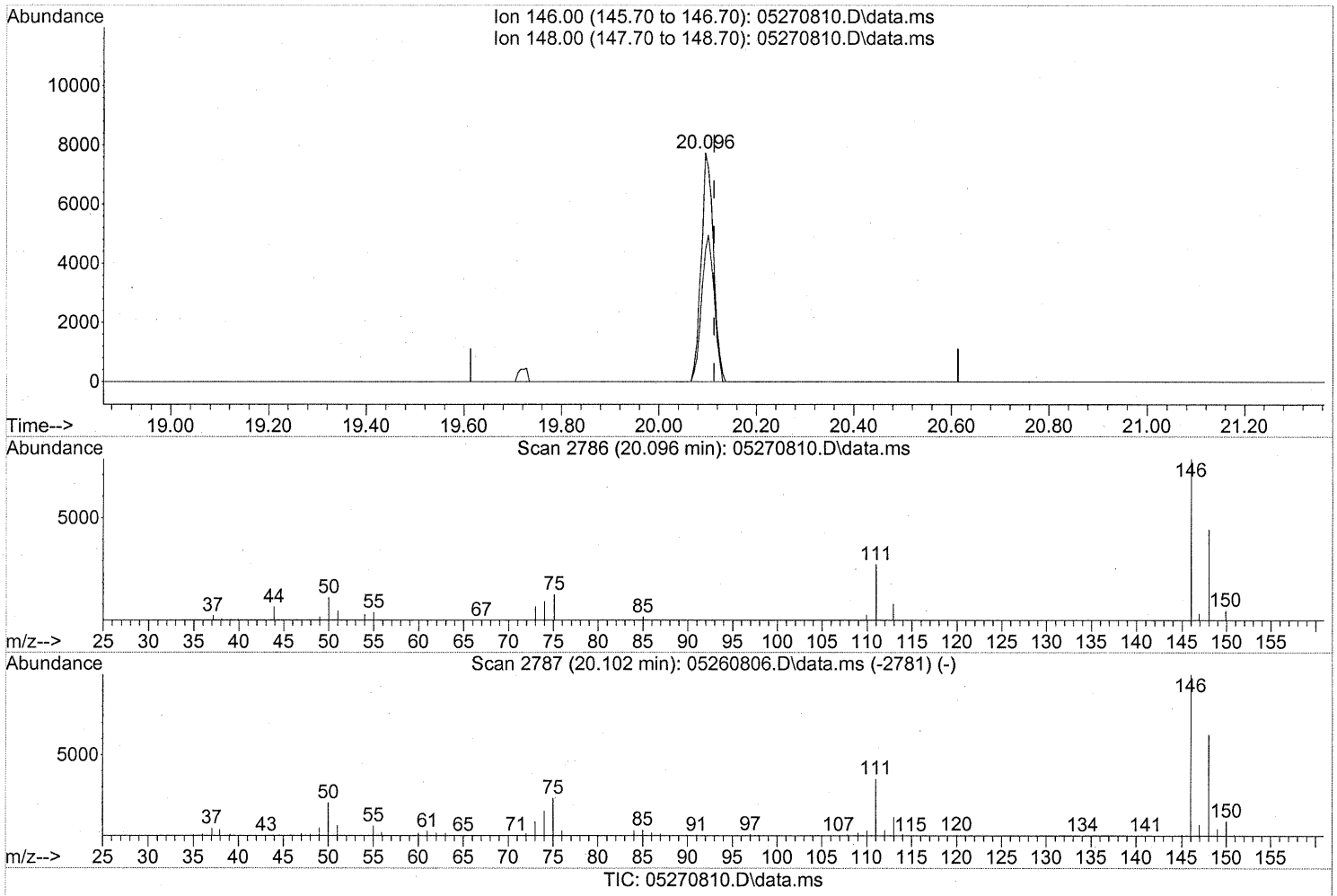
response 11076

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	47.44
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 28 04:46:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270810.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.096min (-0.018) 0.27ng

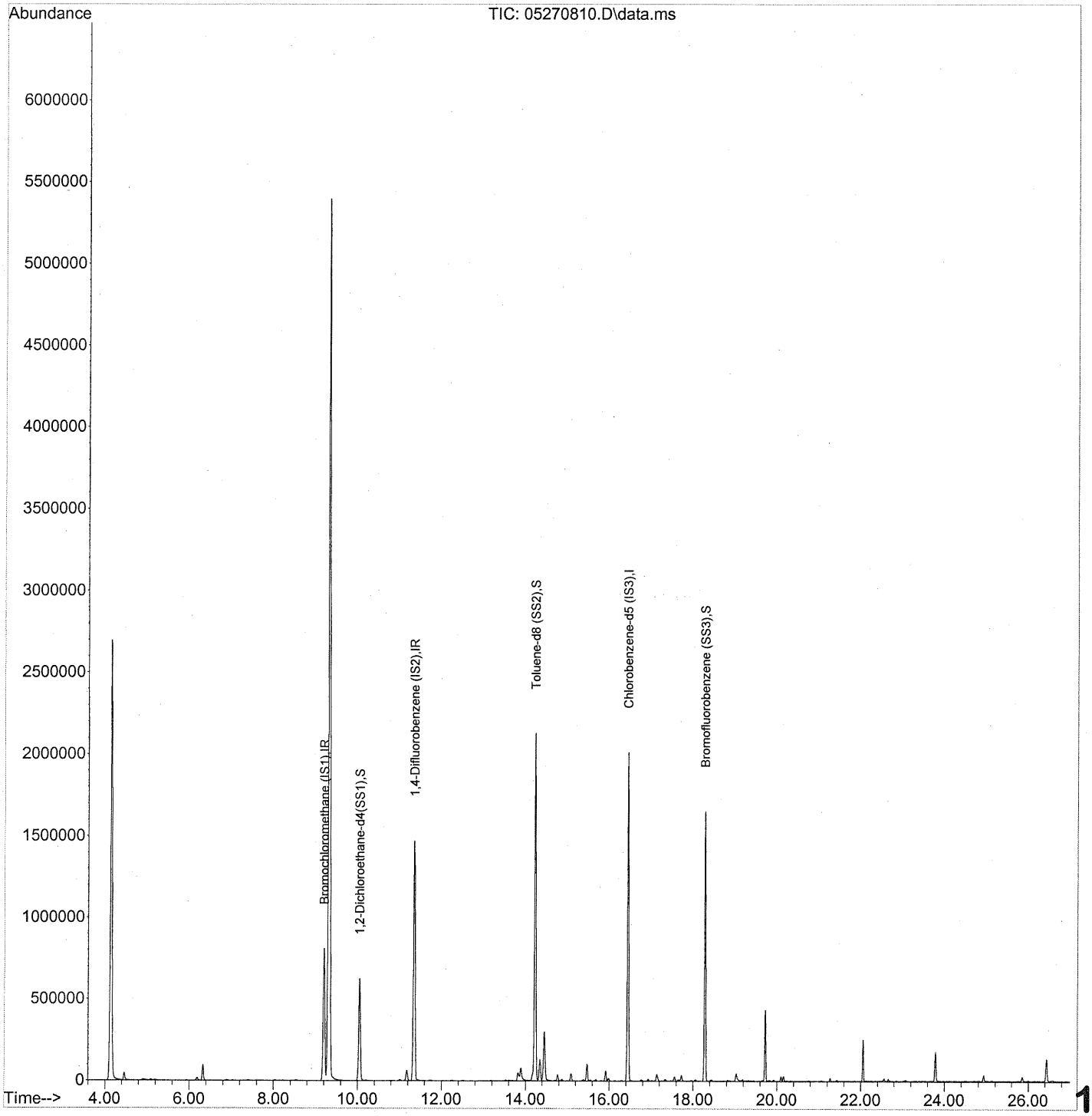
response 13594

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	65.23
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 04 14:39:22 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270810.D
Acq On : 27 May 2008 18:34
Operator : WA
Sample : P0801507-004 (20ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 04 14:39:22 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

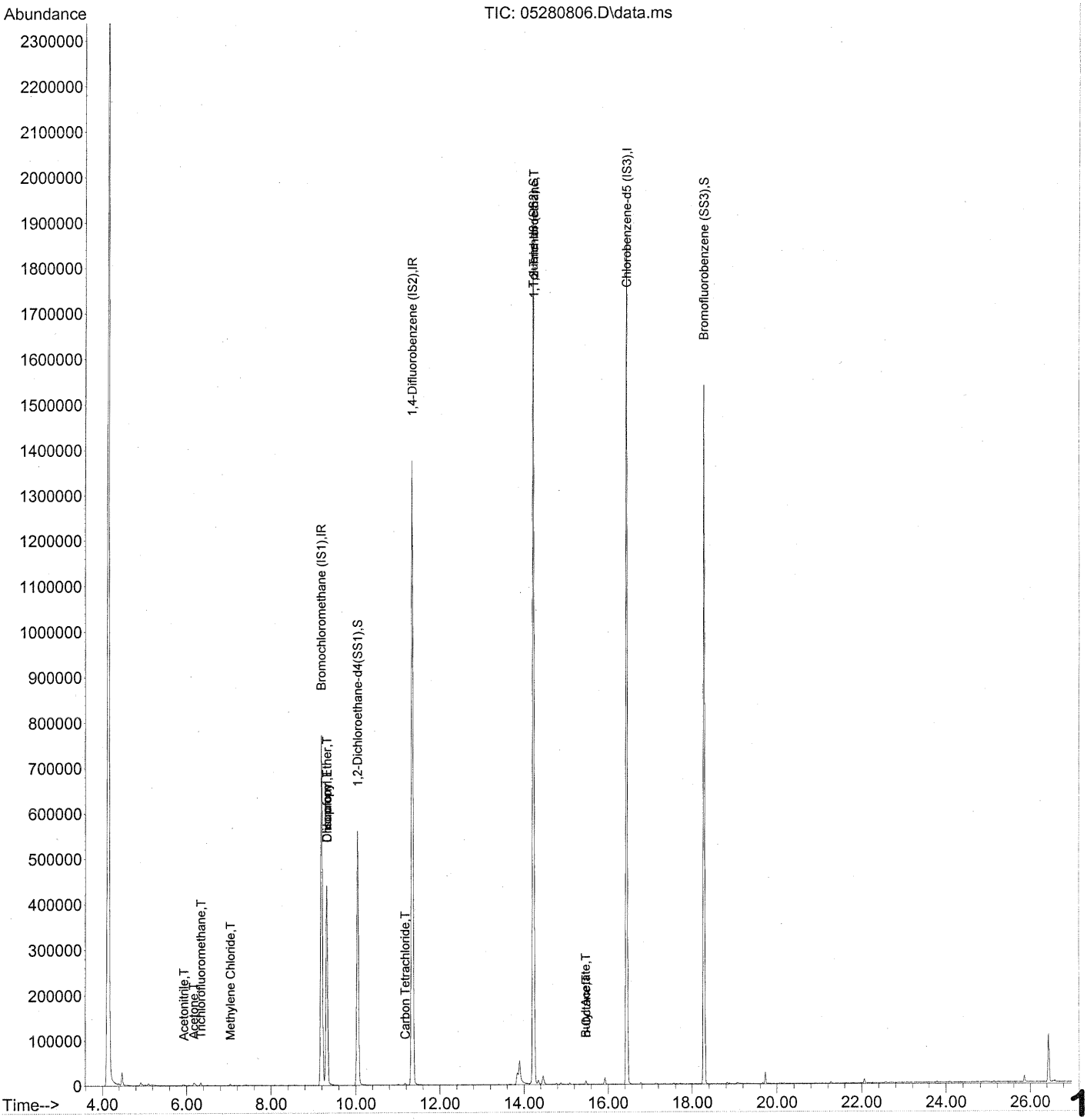
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	406437	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1677305	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	674760	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	570492	24.548	ng	-0.05
Spiked Amount 25.000			Recovery = 98.20%			
5) Toluene-d8 (SS2)	14.23	98	1700871	24.450	ng	-0.02
Spiked Amount 25.000			Recovery = 97.80%			
6) Bromofluorobenzene (SS3)	18.28	174	593854	25.676	ng	-0.01
Spiked Amount 25.000			Recovery = 102.72%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	803	N.D.		
8) n-Butylbenzene	20.85	91	437	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 12:43 pm
Operator : WA
Sample : P0801507-004 Dil (2ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:45:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 12:43 pm
Operator : WA
Sample : P0801507-004 Dil (2ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:45:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	373915	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1544249	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	627480	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	533070	24.932	ng		-0.05
Spiked Amount 25.000			Recovery =	99.72%			
57) Toluene-d8 (SS2)	14.22	98	1573278	24.320	ng		-0.02
Spiked Amount 25.000			Recovery =	97.28%			
73) Bromofluorobenzene (SS3)	18.28	174	557186	25.906	ng		-0.01
Spiked Amount 25.000			Recovery =	103.64%			
Target Compounds							Qvalue
2) Propene	4.47	42	832	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	0.00	45	0	N.D.			
11) Acetonitrile	5.93	41	4072	0.072	ng		99
12) Acrolein	6.06	56	479	N.D.			
13) Acetone	6.17	58	4285	0.219	ng	#	51
14) Trichlorofluoromethane	6.34	101	7159	0.218	ng		94
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	7.04	84	1118	0.074	ng	#	1
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.41	76	2792	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	9.32	87	46992	3.493	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 12:43 pm
Operator : WA
Sample : P0801507-004 Dil (2ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:45:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	434265	19.681	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.04	62	91	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	0.00	56	0	N.D.			
41) Benzene	11.02	78	2311	N.D.			
42) Carbon Tetrachloride	11.18	117	3732	0.140	ng		97
43) Cyclohexane	11.33	84	972	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	14.24	97	132769	8.384	ng	#	7
58) Toluene	14.34	91	3441	N.D.			
59) 2-Hexanone	14.60	43	184	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	4659	0.067	ng	#	72
63) n-Octane	15.48	57	1625	0.073	ng	#	66
64) Tetrachloroethene	0.00	166	0	N.D.			
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	389	N.D.			
67) m- & p-Xylene	17.14	91	2620	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.72	91	671	N.D.			
71) n-Nonane	17.97	43	190	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	659	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	19.18	105	189	N.D.			
78) 4-Ethyltoluene	19.18	105	189	N.D.			
79) 1,3,5-Trimethylbenzene	19.18	105	189	N.D.			

196

DH 6/2/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 12:43 pm
Operator : WA
Sample : P0801507-004 Dil (2ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:45:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

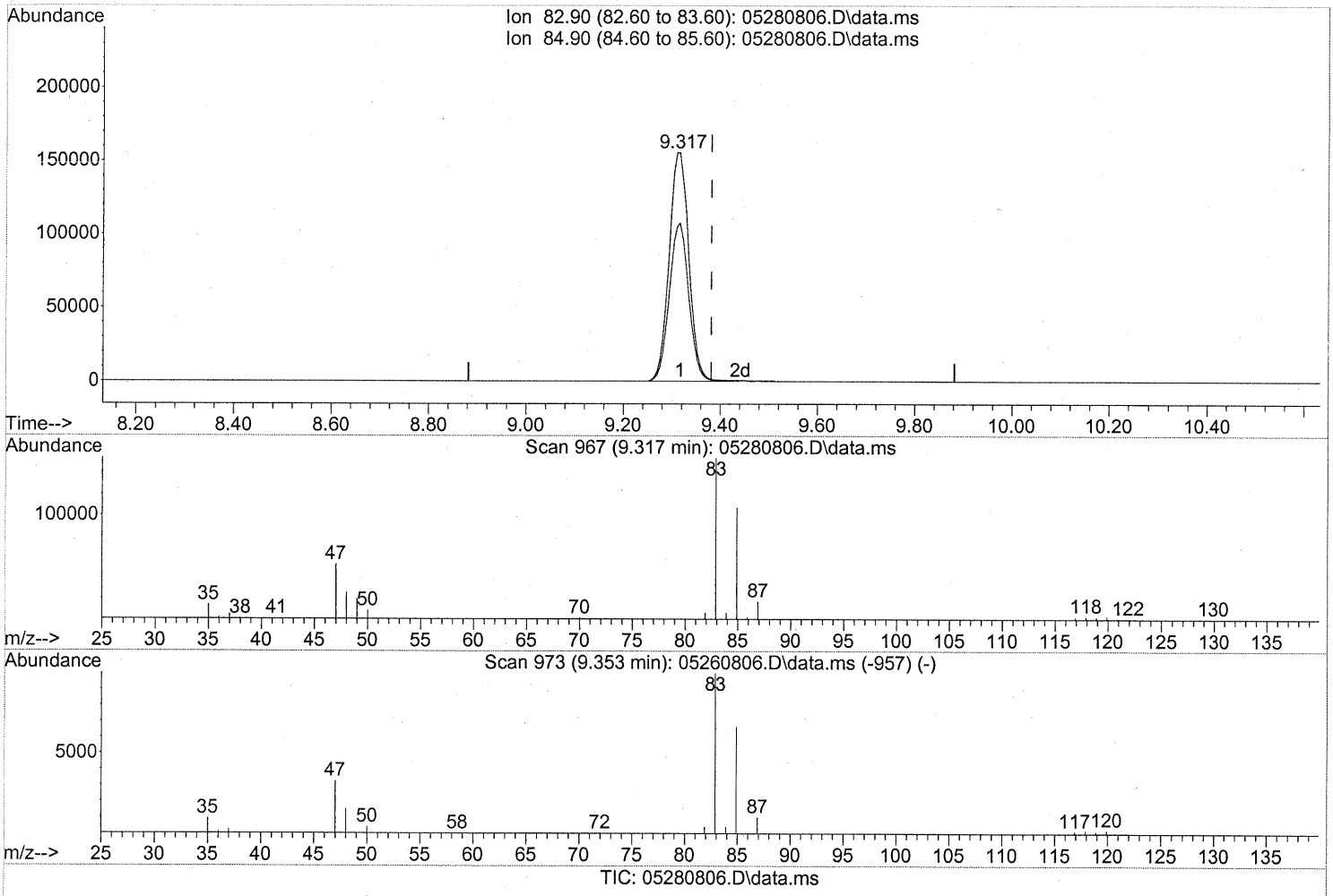
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.82	105	320	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	320	N.D.	
83) n-Decane	20.16	57	1279	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	20.11	146	792	N.D.	
86) 1,4-Dichlorobenzene	20.11	146	792	N.D.	
87) sec-Butylbenzene	19.82	105	320	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	20.77	105	184	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	21.44	57	115	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	600	N.D.	
96) n-Dodecane	22.66	57	203	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:\MS16\DATA\2008_05\28\
Data File : 05280806.D
Acq On : 28 May 2008 12:43
Operator : WA
Sample : P0801507-004 Dil (2ml)
Misc : ENSR SG59B-05 (-4.2, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 14:45:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280806.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 19.68ng

response 434265

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.29
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG31B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.1**	7.9	0.79	**0.42**	1.6	0.16	**J**
74-87-3	Chloromethane	ND	1.6	0.79	ND	0.77	0.38	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	7.9	0.79	ND	1.1	0.11	
75-01-4	Vinyl Chloride	ND	1.6	0.79	ND	0.62	0.31	
74-83-9	Bromomethane	ND	1.6	0.79	ND	0.41	0.20	
75-00-3	Chloroethane	ND	1.6	0.79	ND	0.60	0.30	
64-17-5	**Ethanol**	**16**	79	0.79	**8.3**	42	0.42	**J**
67-64-1	**Acetone**	**25**	79	1.2	**11**	33	0.49	**J, B**
75-69-4	**Trichlorofluoromethane**	**36**	1.6	0.79	**6.4**	0.28	0.14	
107-13-1	Acrylonitrile	ND	7.9	1.1	ND	3.6	0.51	
75-35-4	**1,1-Dichloroethene**	**0.87**	1.6	0.79	**0.22**	0.40	0.20	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	7.9	1.2	ND	2.6	0.39	
75-09-2	**Methylene Chloride**	**2.8**	7.9	0.79	**0.81**	2.3	0.23	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.6	0.79	ND	0.50	0.25	
76-13-1	Trichlorotrifluoroethane	ND	1.6	0.88	ND	0.21	0.12	
75-15-0	Carbon Disulfide	ND	7.9	1.9	ND	2.5	0.61	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
75-34-3	**1,1-Dichloroethane**	**7.8**	1.6	0.79	**1.9**	0.39	0.20	
1634-04-4	Methyl tert-Butyl Ether	ND	1.6	0.79	ND	0.44	0.22	
108-05-4	Vinyl Acetate	ND	79	2.5	ND	22	0.72	
78-93-3	**2-Butanone (MEK)**	**7.5**	7.9	0.79	**2.5**	2.7	0.27	**J**
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.79	ND	0.40	0.20	
108-20-3	Diisopropyl Ether	ND	7.9	0.93	ND	1.9	0.22	
67-66-3	**Chloroform**	**4,000**	1.6	0.93	**810**	0.32	0.19	

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG31B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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
637-92-3	Ethyl tert-Butyl Ether	ND	7.9	0.81	ND	1.9	0.19	
107-06-2	**1,2-Dichloroethane**	**2.9**	1.6	0.79	**0.71**	0.39	0.20	
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
71-43-2	**Benzene**	**4.8**	1.6	0.79	**1.5**	0.49	0.25	
56-23-5	**Carbon Tetrachloride**	**38**	1.6	0.79	**6.1**	0.25	0.13	
994-05-8	tert-Amyl Methyl Ether	ND	7.9	0.79	ND	1.9	0.19	
78-87-5	1,2-Dichloropropane	ND	1.6	0.79	ND	0.34	0.17	
75-27-4	**Bromodichloromethane**	**3.5**	1.6	0.79	**0.52**	0.24	0.12	
79-01-6	**Trichloroethene**	**2.6**	1.6	0.79	**0.48**	0.29	0.15	
123-91-1	1,4-Dioxane	ND	7.9	0.96	ND	2.2	0.27	
80-62-6	Methyl Methacrylate	ND	7.9	1.2	ND	1.9	0.29	
142-82-5	**n-Heptane**	**1.6**	7.9	1.0	**0.39**	1.9	0.25	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	7.9	0.82	ND	1.7	0.18	
108-10-1	**4-Methyl-2-pentanone**	**2.4**	7.9	0.88	**0.59**	1.9	0.22	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	7.9	1.0	ND	1.7	0.22	
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.79	ND	0.29	0.14	
108-88-3	**Toluene**	**20**	7.9	0.79	**5.4**	2.1	0.21	
591-78-6	**2-Hexanone**	**1.7**	7.9	1.2	**0.41**	1.9	0.29	**J**
124-48-1	Dibromochloromethane	ND	1.6	1.1	ND	0.19	0.13	
106-93-4	1,2-Dibromoethane	ND	1.6	0.85	ND	0.21	0.11	
111-65-9	**n-Octane**	**28**	7.9	0.79	**6.0**	1.7	0.17	
127-18-4	**Tetrachloroethene**	**76**	1.6	0.79	**11**	0.23	0.12	
108-90-7	Chlorobenzene	ND	1.6	0.81	ND	0.34	0.18	

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Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG31B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-005

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00649

Date Collected: 5/19/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.10 Liter(s)
0.020 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**	**3.3**	7.9	0.98	**0.75**	1.8	0.23	**J**
179601-23-1	**m,p-Xylenes**	**16**	7.9	2.1	**3.7**	1.8	0.47	
75-25-2	Bromoform	ND	7.9	1.2	ND	0.76	0.12	
100-42-5	Styrene	ND	7.9	1.2	ND	1.9	0.28	
95-47-6	**o-Xylene**	**5.3**	7.9	1.0	**1.2**	1.8	0.23	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	1.0	ND	0.23	0.15	
98-82-8	Cumene	ND	7.9	0.88	ND	1.6	0.18	
103-65-1	n-Propylbenzene	ND	7.9	0.82	ND	1.6	0.17	
622-96-8	4-Ethyltoluene	ND	7.9	0.90	ND	1.6	0.18	
108-67-8	**1,3,5-Trimethylbenzene**	**0.95**	7.9	0.95	**0.19**	1.6	0.19	**J**
98-83-9	alpha-Methylstyrene	ND	7.9	1.2	ND	1.6	0.24	
95-63-6	**1,2,4-Trimethylbenzene**	**2.0**	7.9	1.1	**0.41**	1.6	0.22	**J**
100-44-7	Benzyl Chloride	ND	1.6	1.4	ND	0.31	0.26	
541-73-1	**1,3-Dichlorobenzene**	**8.5**	1.6	0.98	**1.4**	0.26	0.16	
106-46-7	**1,4-Dichlorobenzene**	**23**	1.6	0.88	**3.9**	0.26	0.15	
135-98-8	sec-Butylbenzene	ND	7.9	0.92	ND	1.4	0.17	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	7.9	1.0	ND	1.4	0.19	
95-50-1	1,2-Dichlorobenzene	ND	1.6	1.0	ND	0.26	0.17	
96-12-8	1,2-Dibromo-3-chloropropane	ND	7.9	1.2	ND	0.82	0.12	
120-82-1	1,2,4-Trichlorobenzene	ND	1.6	1.2	ND	0.21	0.16	
91-20-3	**Naphthalene**	**1.3**	3.2	1.2	**0.26**	0.60	0.22	**J**
87-68-3	**Hexachlorobutadiene**	**2.3**	1.6	1.4	**0.21**	0.15	0.13	
98-06-6	tert-Butylbenzene	ND	3.2	0.79	ND	0.58	0.14	
104-51-8	n-Butylbenzene	ND	3.2	0.79	ND	0.58	0.14	

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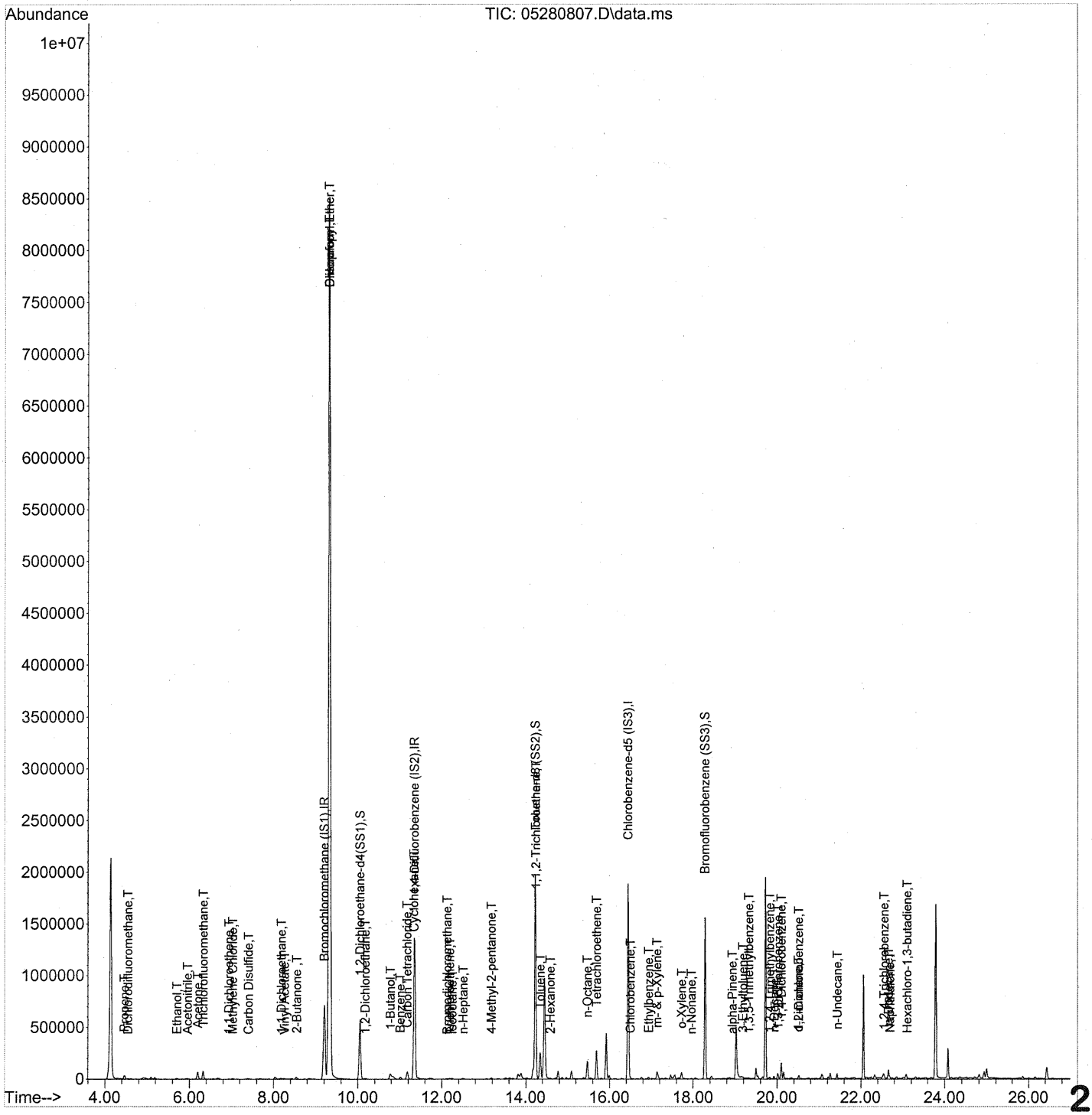
Verified By: CA Date: 6/5/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 09:37:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	370470	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.35	114	1515272	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	626252	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	520853	24.588	ng		-0.04
Spiked Amount 25.000			Recovery =	98.36%			
57) Toluene-d8 (SS2)	14.23	98	1555286	24.089	ng		-0.02
Spiked Amount 25.000			Recovery =	96.36%			
73) Bromofluorobenzene (SS3)	18.28	174	553601	25.790	ng		-0.01
Spiked Amount 25.000			Recovery =	103.16%			
Target Compounds							Qvalue
2) Propene	4.46	42	7376	0.257	ng		90
3) Dichlorodifluoromethane	4.55	85	4549	0.131	ng	#	91
4) Chloromethane	4.75	50	329	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.13	54	695	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	5.71	45	19368m	0.995	ng		
11) Acetonitrile	5.96	41	9291	0.166	ng	#	62
12) Acrolein	6.06	56	545	N.D.			
13) Acetone	6.20	58	31071	1.605	ng	#	75
14) Trichlorofluoromethane	6.33	101	73985	2.278	ng		100
15) Isopropanol	6.49	45	1554	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	6.94	96	838	0.055	ng	#	32
18) tert-Butanol	7.05	59	715	N.D.			
19) Methylene Chloride	7.03	84	2643	0.177	ng	#	16
20) Allyl Chloride	7.14	41	300	N.D.			
21) Trichlorotrifluoroethane	7.30	151	101	N.D.			
22) Carbon Disulfide	7.40	76	6133	0.102	ng		84
23) trans-1,2-Dichloroethene	8.05	61	824	N.D.			
24) 1,1-Dichloroethane	8.19	63	15594	0.492	ng		93
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	8.26	86	347	0.109	ng	< MDL	1
27) 2-Butanone	8.55	72	4794	0.474	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.33	87	1035074	77.644	ng	UR #	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	2044	N.D.			

203

JDA 6/4/08

Quantitation Report (QT Reviewed)

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Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 09:37:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.33	83	9558811	~~437.241 ng~~	su di/	96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	10.18	62	4558	0.182 ng		90
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.78	56	72946	2.925 ng	#	65
41) Benzene	11.01	78	19558	0.306 ng		98
42) Carbon Tetrachloride	11.18	117	63141	2.410 ng		100
43) Cyclohexane	11.34	84	2312	0.093 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	12.13	83	4167	0.222 ng		89
47) Trichloroethene	12.20	130	3218	0.162 ng		94
48) 1,4-Dioxane	12.15	88	266	N.D. ✓		
49) Isooctane	12.26	57	10184	0.100 ng		98
50) Methyl Methacrylate	12.51	100	267	N.D. ✓		
51) n-Heptane	12.51	71	1534	0.101 ng	#	50
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	13.18	58	3409	0.153 ng	#	68
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	14.24	97	132472	~~8.525 ng~~	NR#	7
58) Toluene	14.35	91	94466	1.290 ng		99
59) 2-Hexanone	14.58	43	7402	0.107 ng	#	69
60) Dibromochloromethane	14.83	129	105	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.30	43	3310	N.D.		
63) n-Octane	15.47	57	38984	1.760 ng		94
64) Tetrachloroethene	15.69	166	104322	4.816 ng		100
65) Chlorobenzene	16.50	112	2752	~~0.053 ng~~	NR	82
66) Ethylbenzene	16.94	91	17238	0.207 ng		97
67) m- & p-Xylene	17.14	91	56747	1.029 ng		91
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	17.60	104	1029	N.D. ✓		
70) o-Xylene	17.73	91	19694	0.334 ng		90
71) n-Nonane	17.96	43	4751	0.082 ng		81
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. ✓		
74) Cumene	18.45	105	634	N.D. ✓		
75) alpha-Pinene	18.93	93	3805	0.094 ng		94
76) n-Propylbenzene	19.06	91	2373	N.D. ✓		
77) 3-Ethyltoluene	19.18	105	8382	0.089 ng		89
78) 4-Ethyltoluene	19.24	105	3539	N.D. ✓		
79) 1,3,5-Trimethylbenzene	19.33	105	4562	0.060 ng		92

6/4/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 09:37:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	95	N.D. ✓		
81) 2-Ethyltoluene	19.56	105	3424	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	9622	0.126 ng		99
83) n-Decane	19.93	57	11371	0.210 ng		76
84) Benzyl Chloride	20.16	91	121	N.D. ✓		
85) 1,3-Dichlorobenzene	20.02	146	25943	0.536 ng		96
86) 1,4-Dichlorobenzene	20.10	146	69617	1.482 ng		99
87) sec-Butylbenzene	20.34	105	3287	N.D. ✓		
88) p-Isopropyltoluene	20.33	119	2505	N.D. ✓		
89) 1,2,3-Trimethylbenzene	20.34	105	3287	N.D.		
90) 1,2-Dichlorobenzene	20.52	146	2836	0.064 ng		93
91) d-Limonene	20.51	68	4532	0.193 ng		94
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓		
93) n-Undecane	21.44	57	19696	0.347 ng		86
94) 1,2,4-Trichlorobenzene	22.56	184	572	0.071 ng	#	39
95) Naphthalene	22.70	128	9382	0.085 ng		97
96) n-Dodecane	22.66	57	29721	0.538 ng		82
97) Hexachloro-1,3-butadiene	23.11	225	1936	0.145 ng		94

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
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Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
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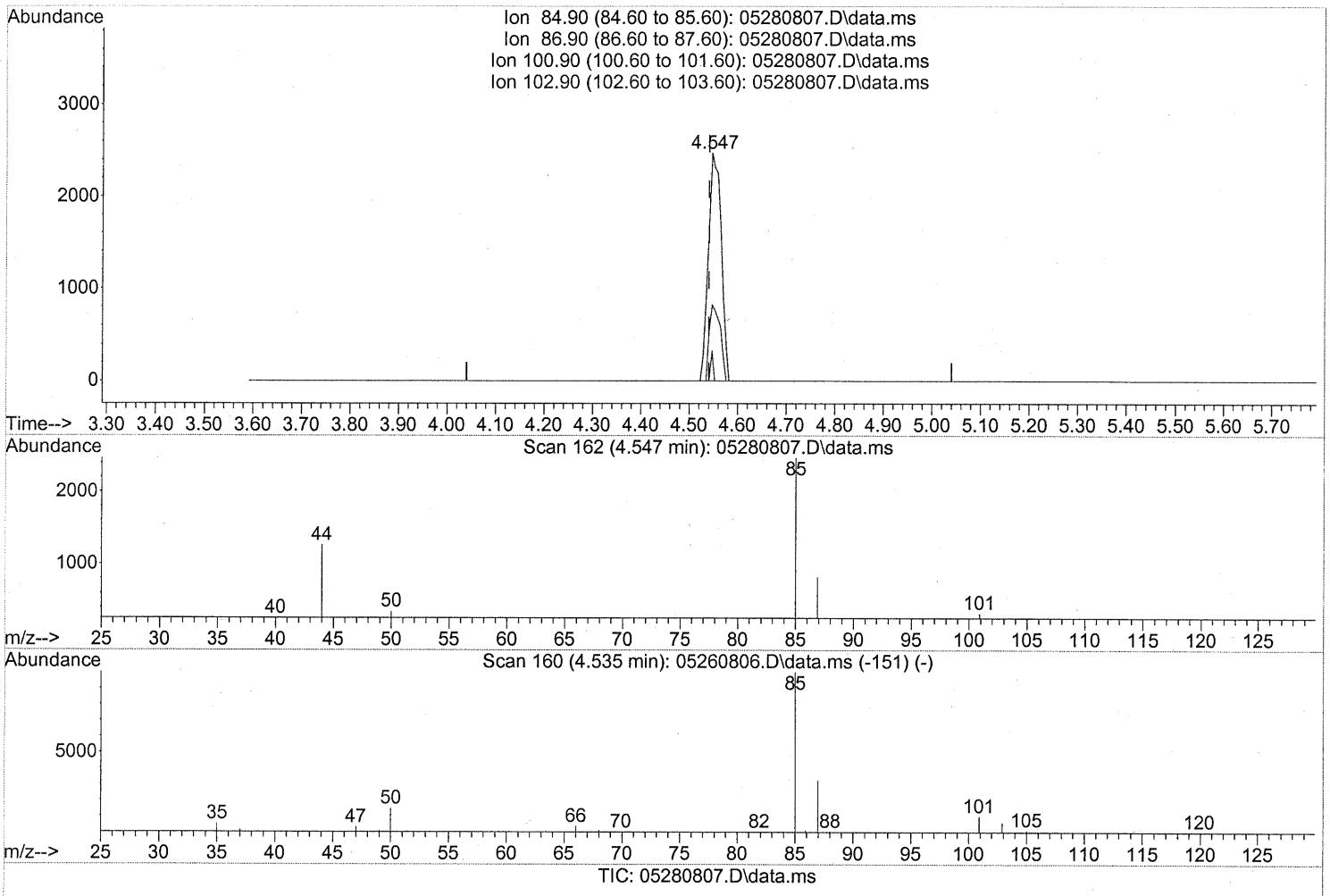
Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.547min (+0.006) 0.13ng

response 4549

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	28.45
100.90	8.40	2.51
102.90	5.50	0.00

206

Quantitation Report (Qedit)

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Acq On : 28 May 2008 13:21
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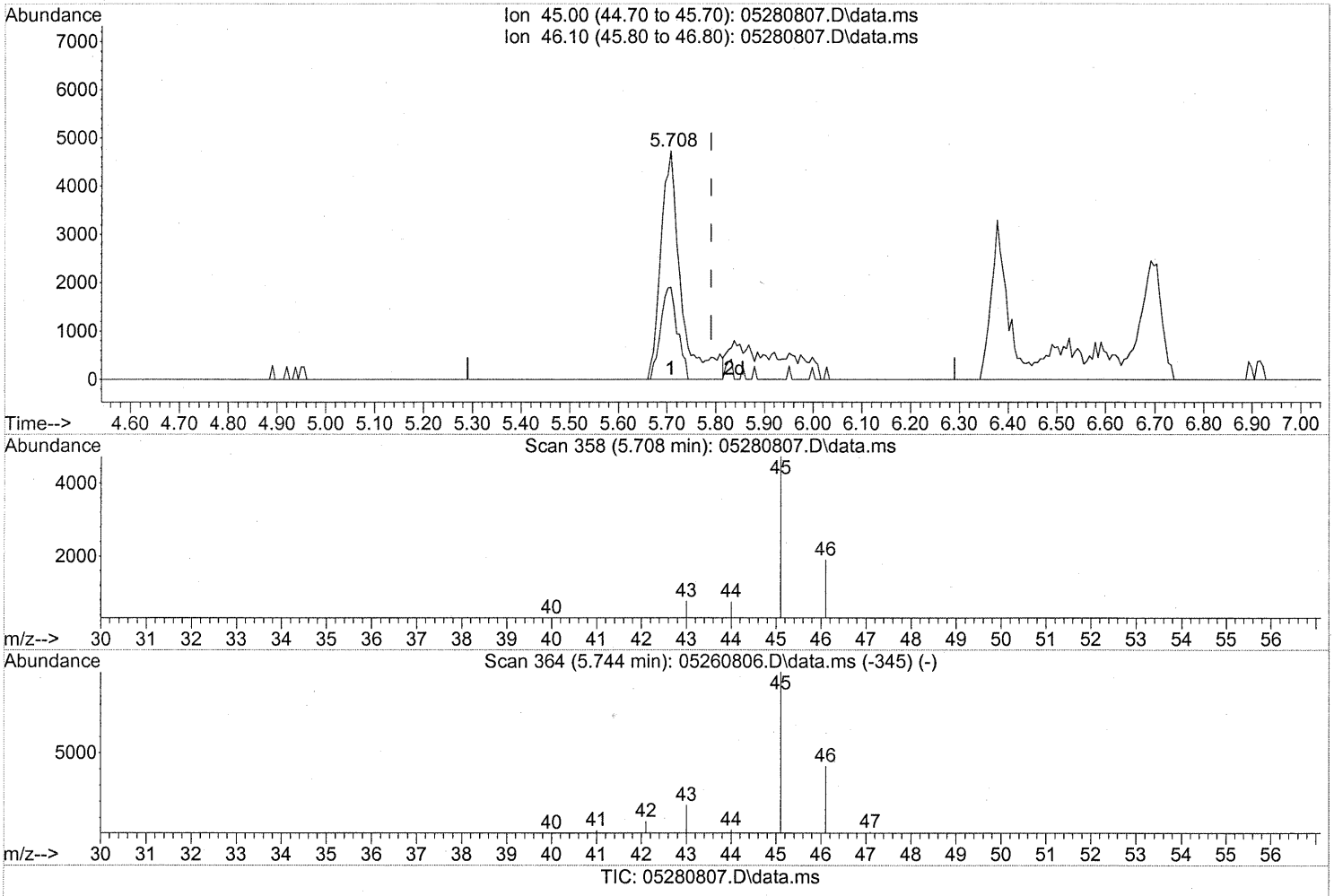

TIC: 05280807.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 0.69ng

response 13423

split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	33.59
0.00	0.00	0.00
0.00	0.00	0.00

207

Quantitation Report (Qedit)

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Misc : ENSR SG31B-05 (-3.2, 3.5)
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Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
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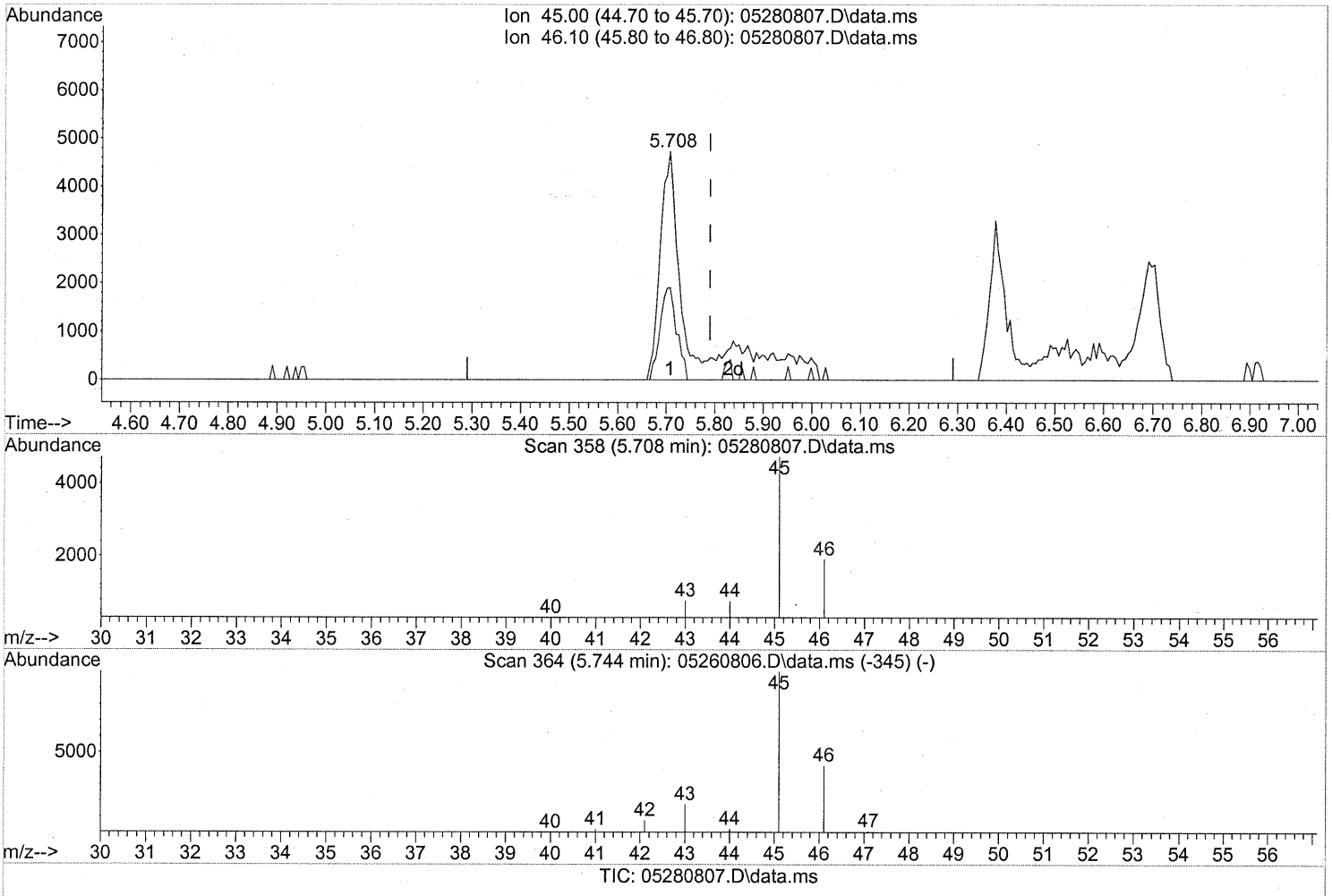
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 1.00ng m

response 19368

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	23.28
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

6/4/08

6/4/08

208

Quantitation Report (Qedit)

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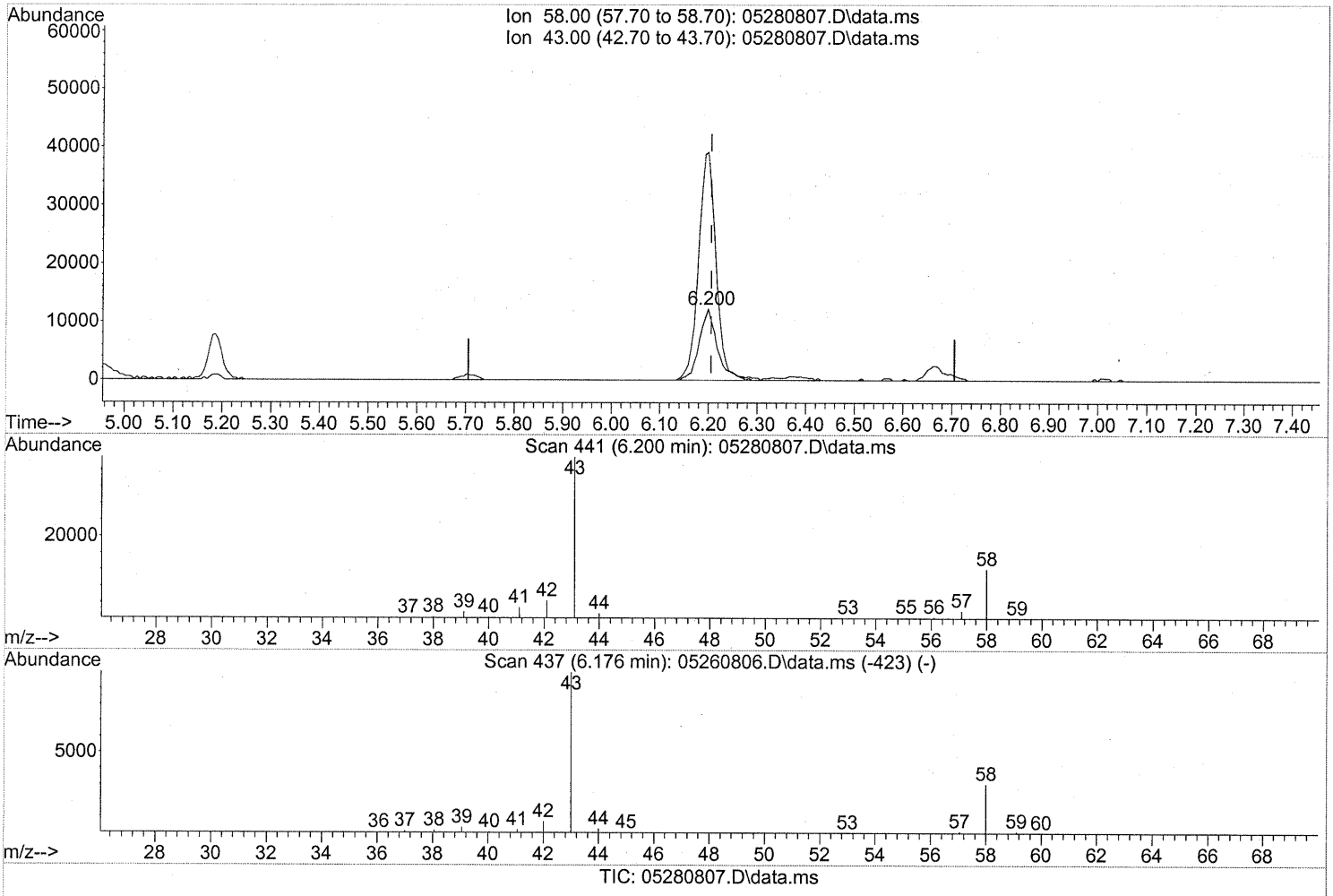

TIC: 05280807.D\data.ms

(13) Acetone (T)

6.200min (-0.006) 1.61ng

response 31071

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	313.20#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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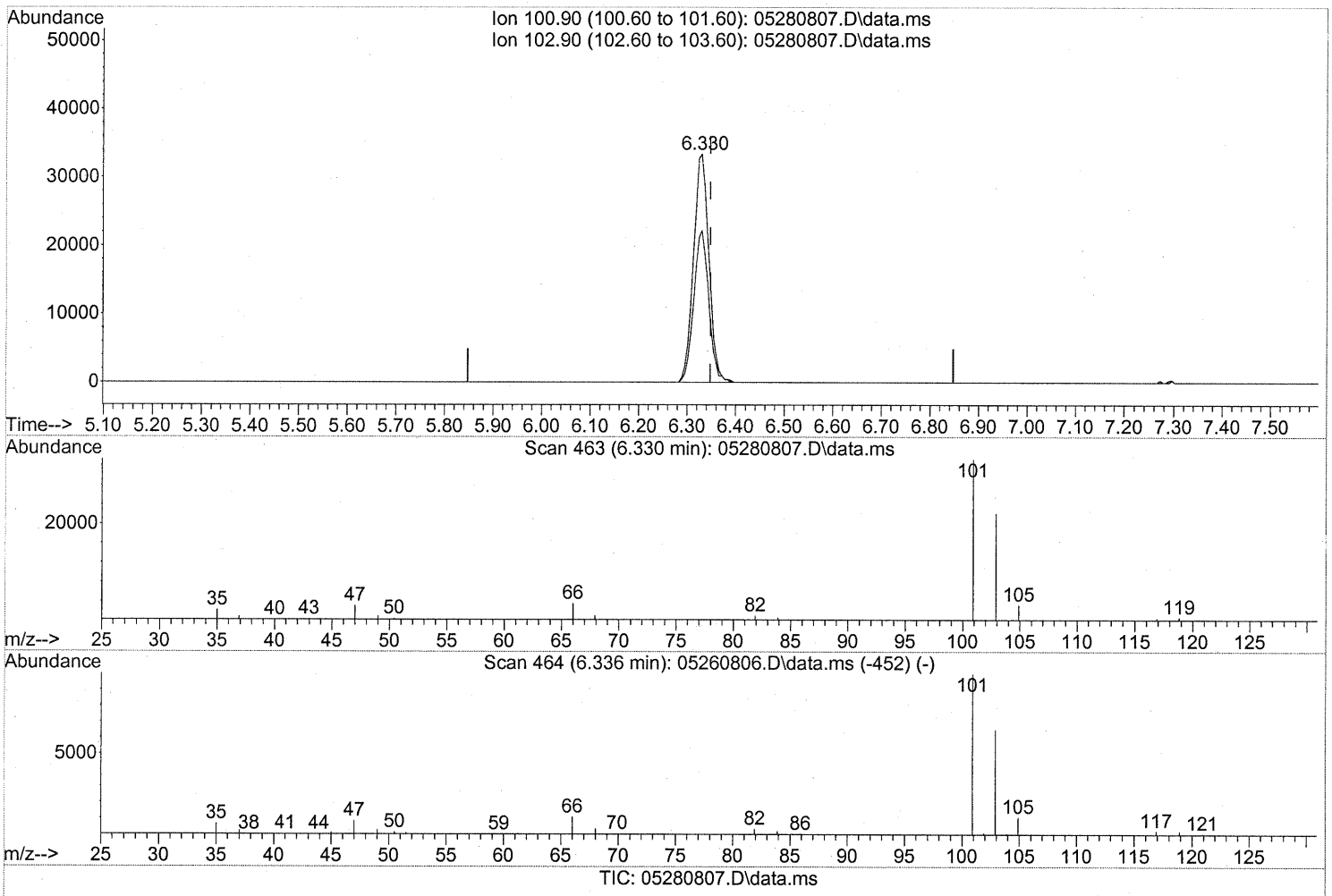

(14) Trichlorofluoromethane (T)

6.330min (-0.018) 2.28ng

response 73985

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	64.88
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
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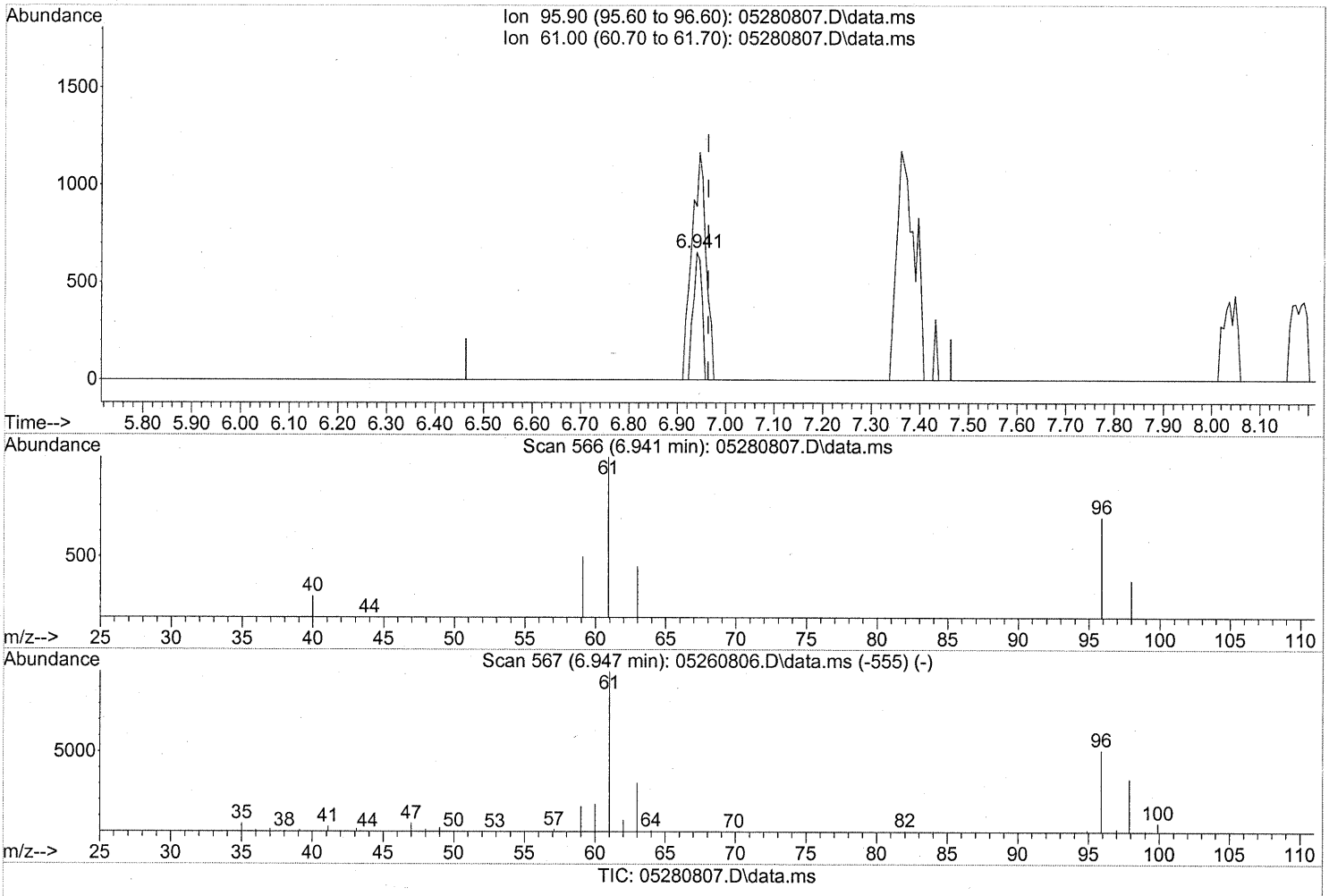
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(17) 1,1-Dichloroethene (T)

6.941min (-0.024) 0.06ng

response 838

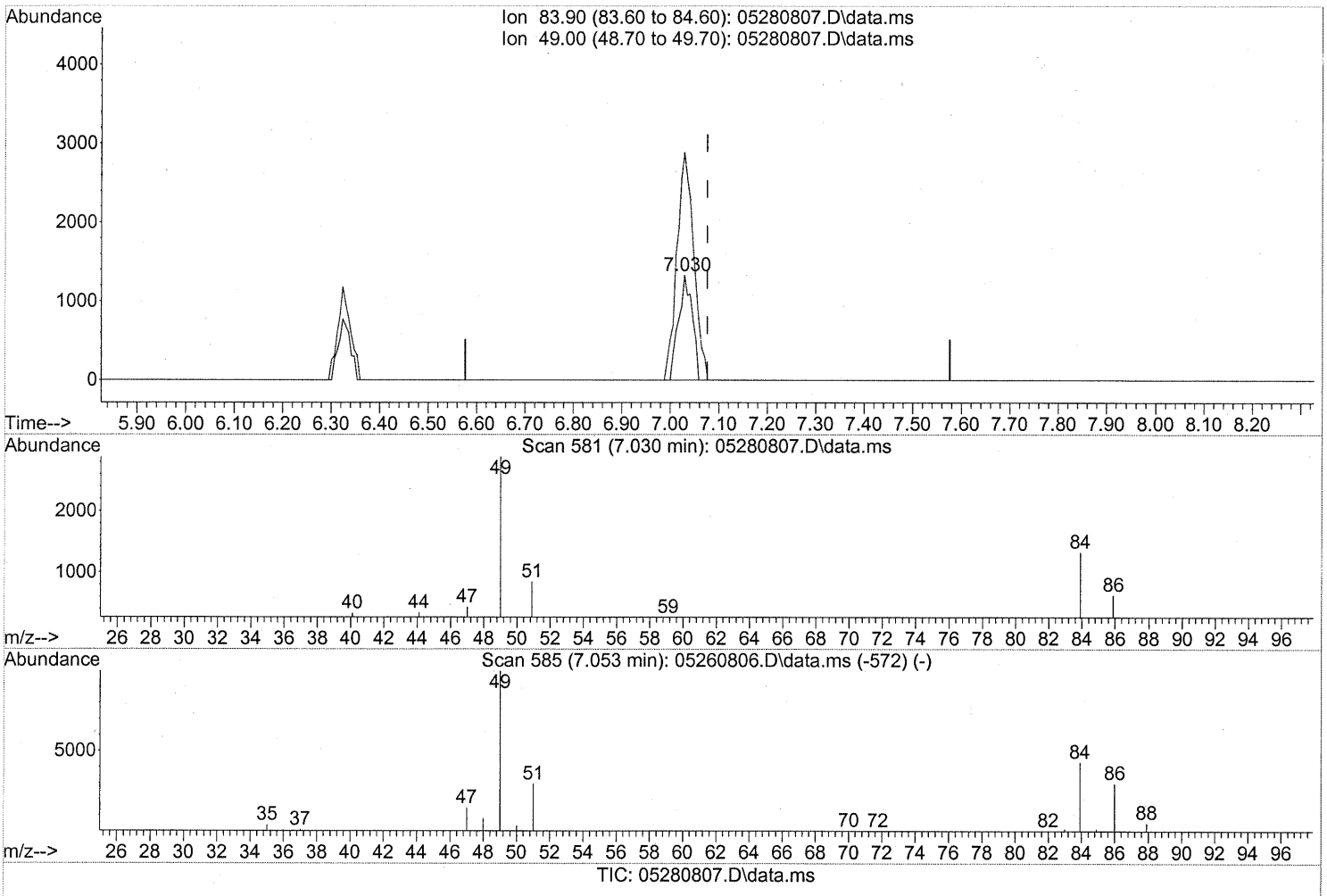
Ion	Exp%	Act%
95.90	100	100
61.00	189.30	289.26#
0.00	0.00	0.00
0.00	0.00	0.00

211

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(19) Methylene Chloride (T)

7.030min (-0.047) 0.18ng

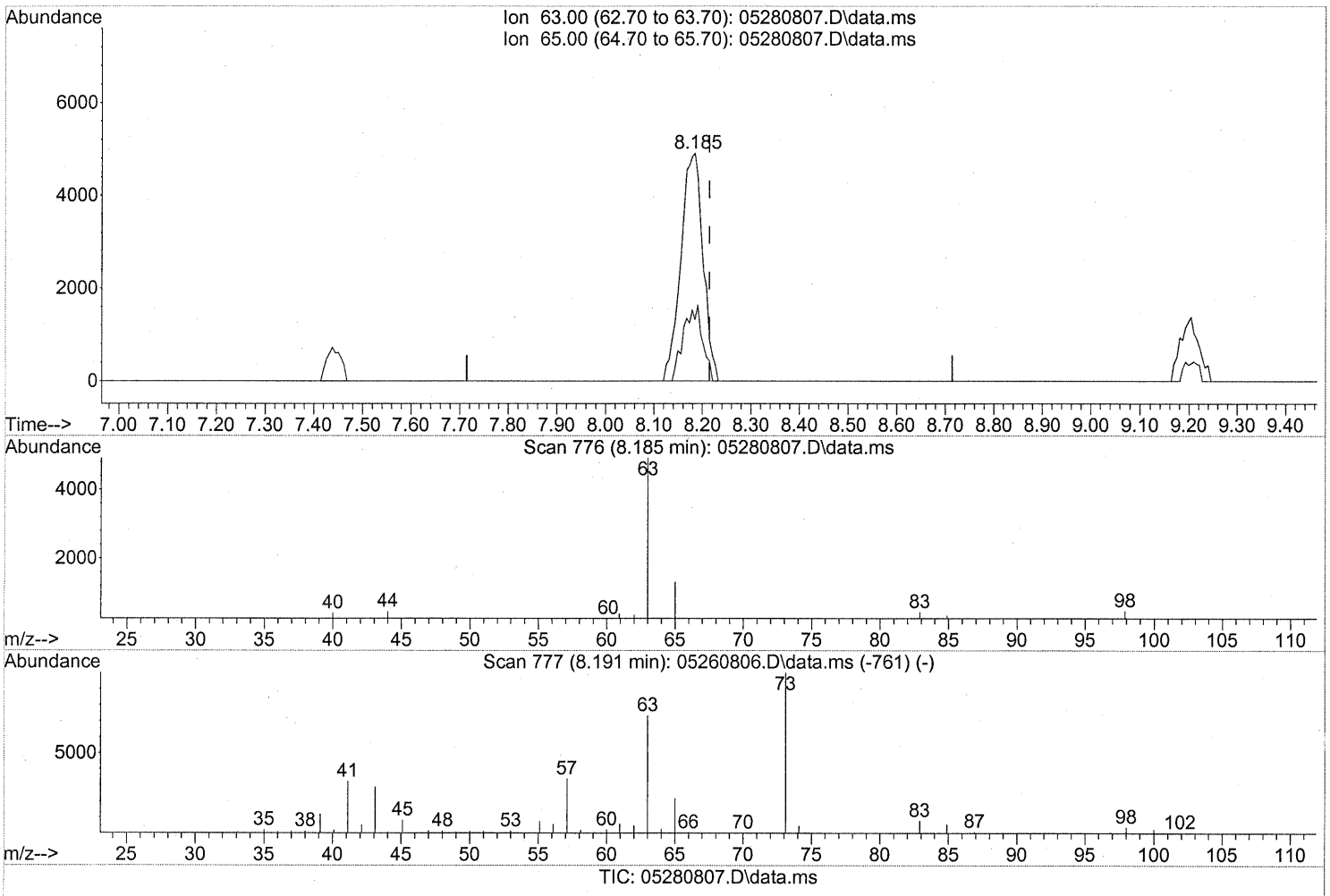
response 2643

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	264.51#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(24) 1,1-Dichloroethane (T)

8.185min (-0.030) 0.49ng

response 15594

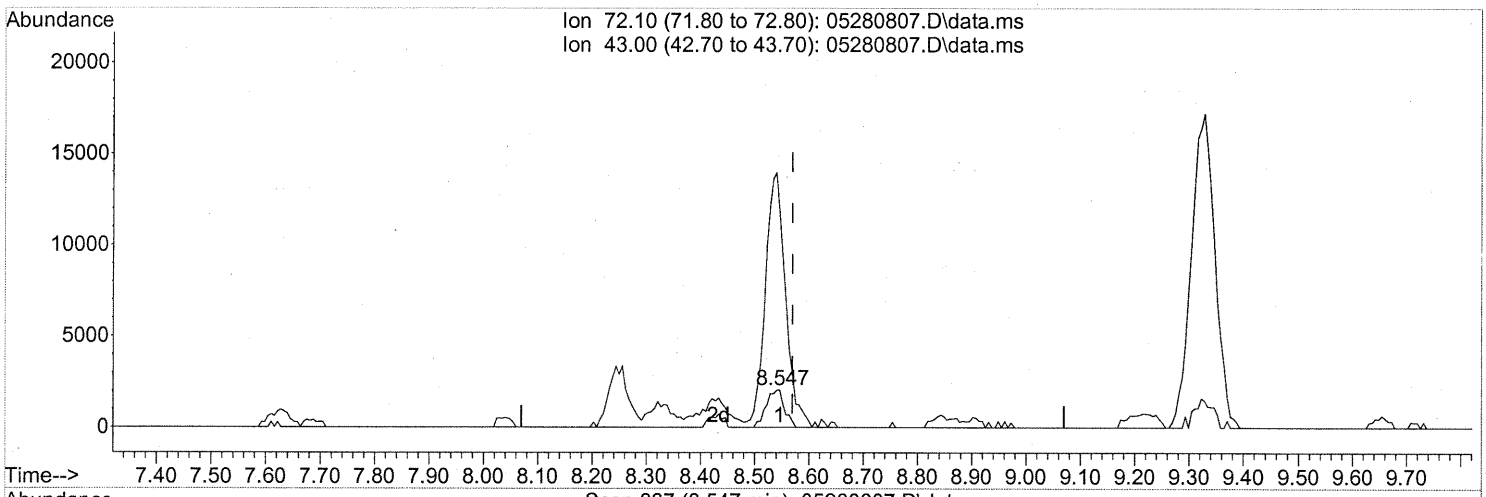
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	28.32
0.00	0.00	0.00
0.00	0.00	0.00

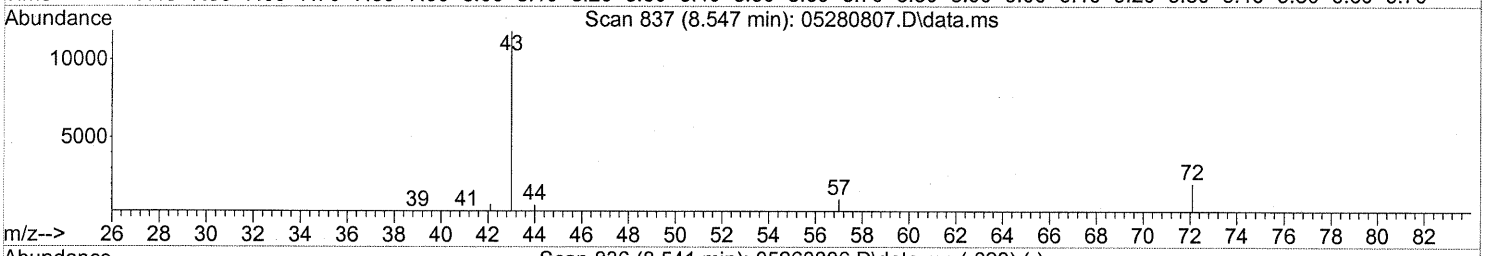
213

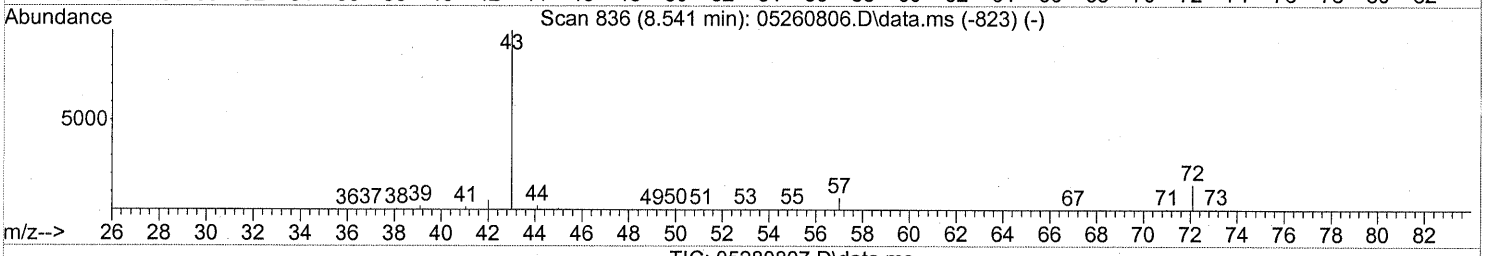
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280807.D\data.ms

(27) 2-Butanone (T)

8.547min (-0.024) 0.47ng

response 4794

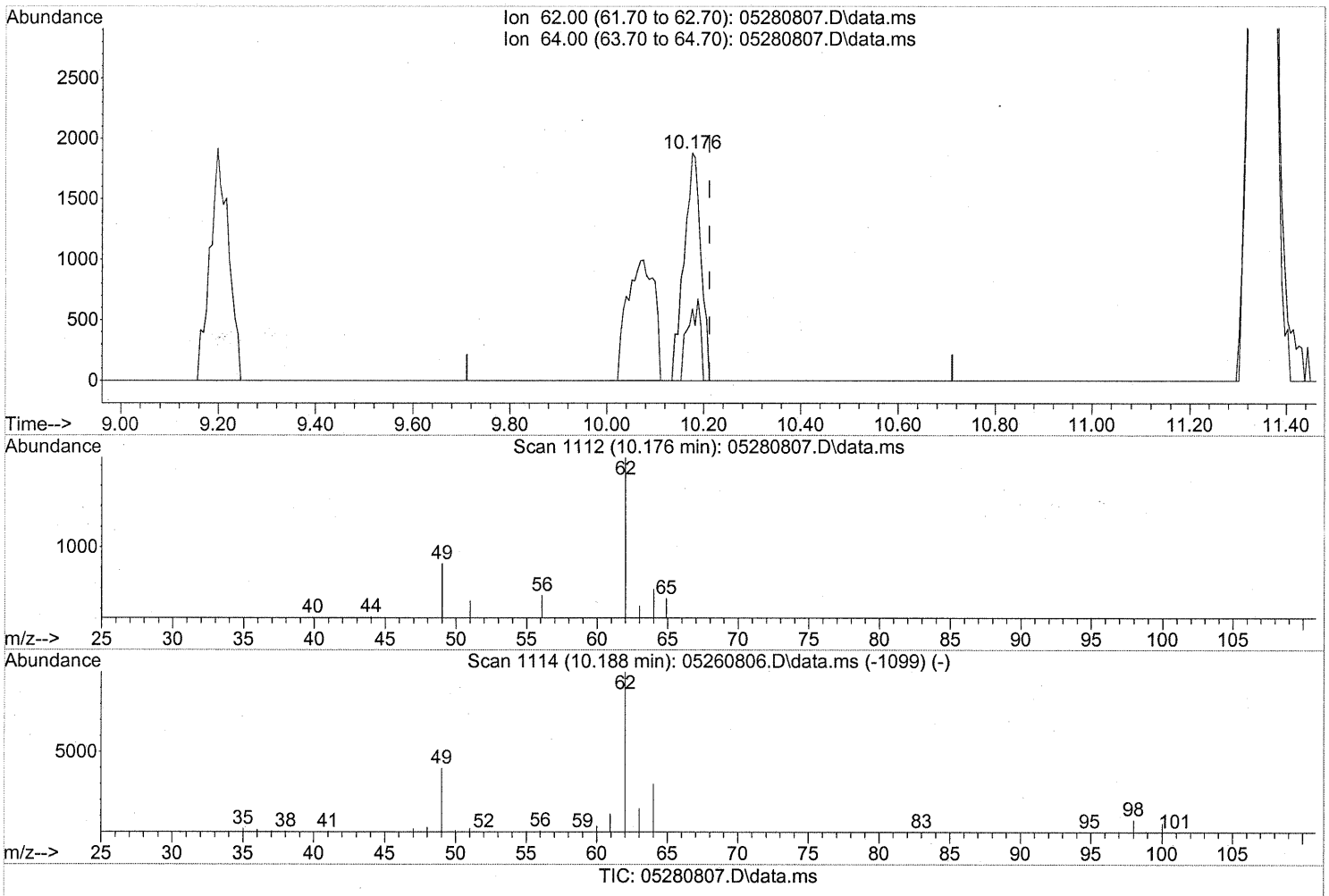
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	760.10#
0.00	0.00	0.00
0.00	0.00	0.00

214

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(36) 1,2-Dichloroethane (T)

10.176min (-0.036) 0.18ng

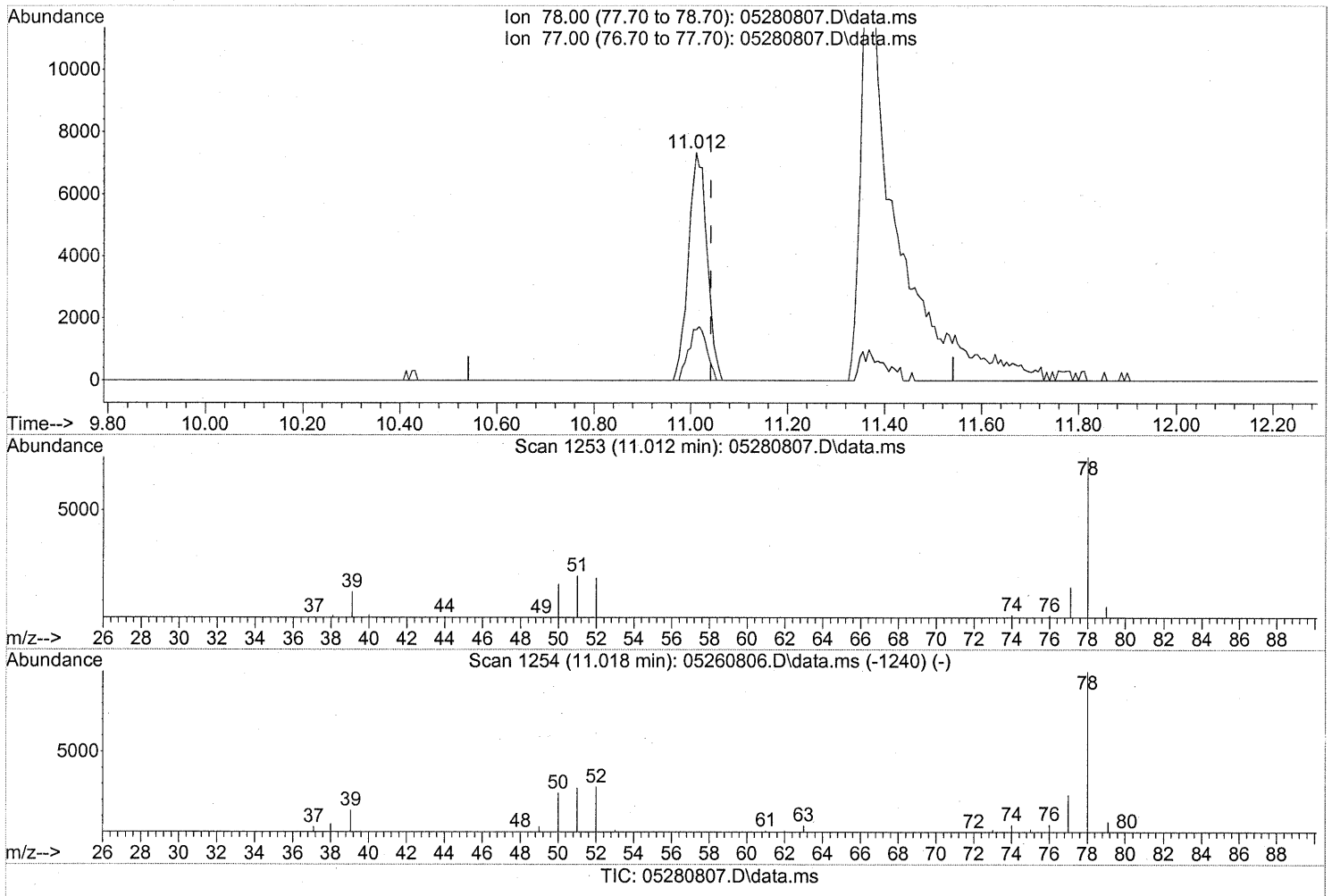
response 4558

Ion	Exp%	Act%
62.00	100	100
64.00	32.50	26.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.012min (-0.030) 0.31ng

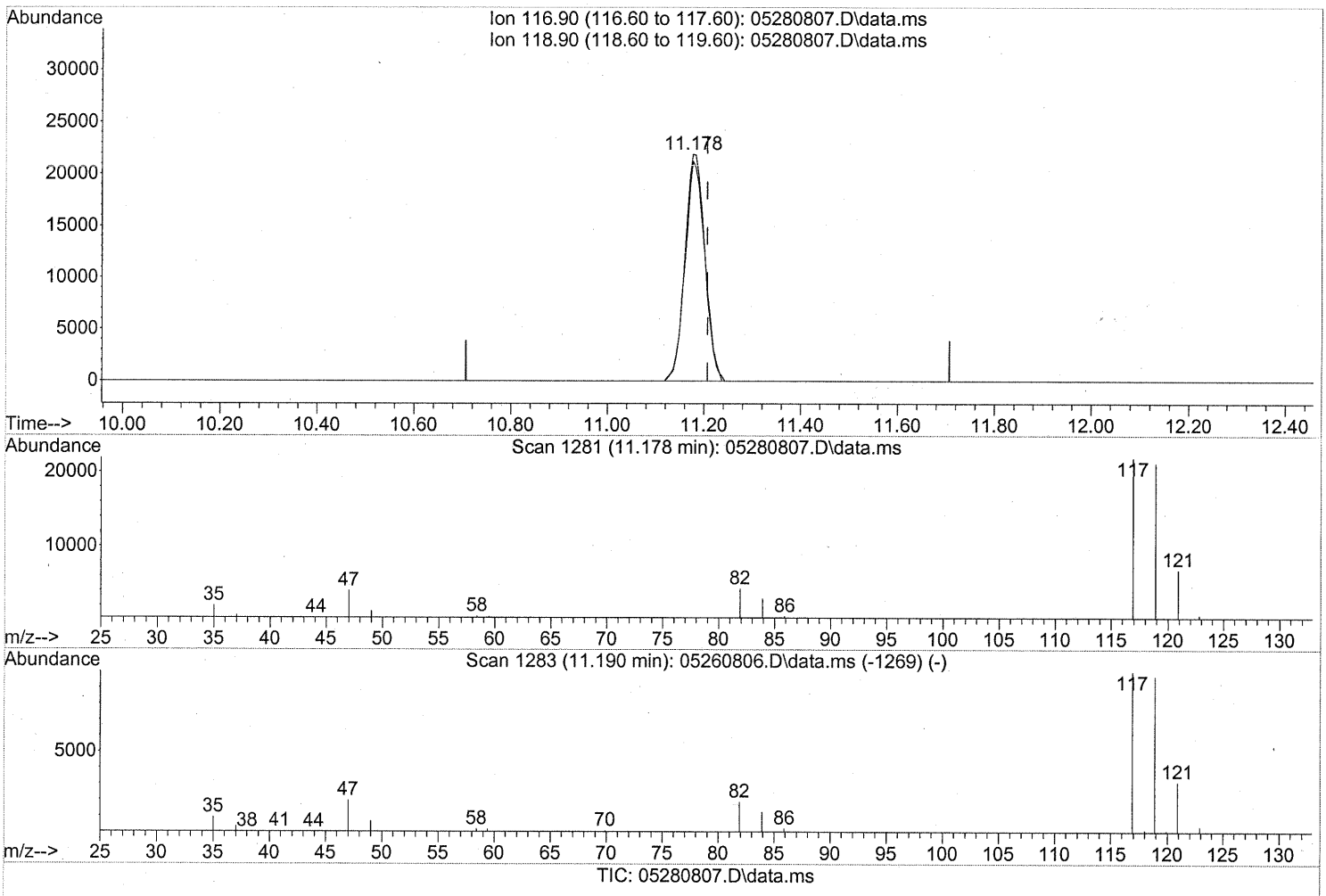
response 19558

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.75
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 2.41ng

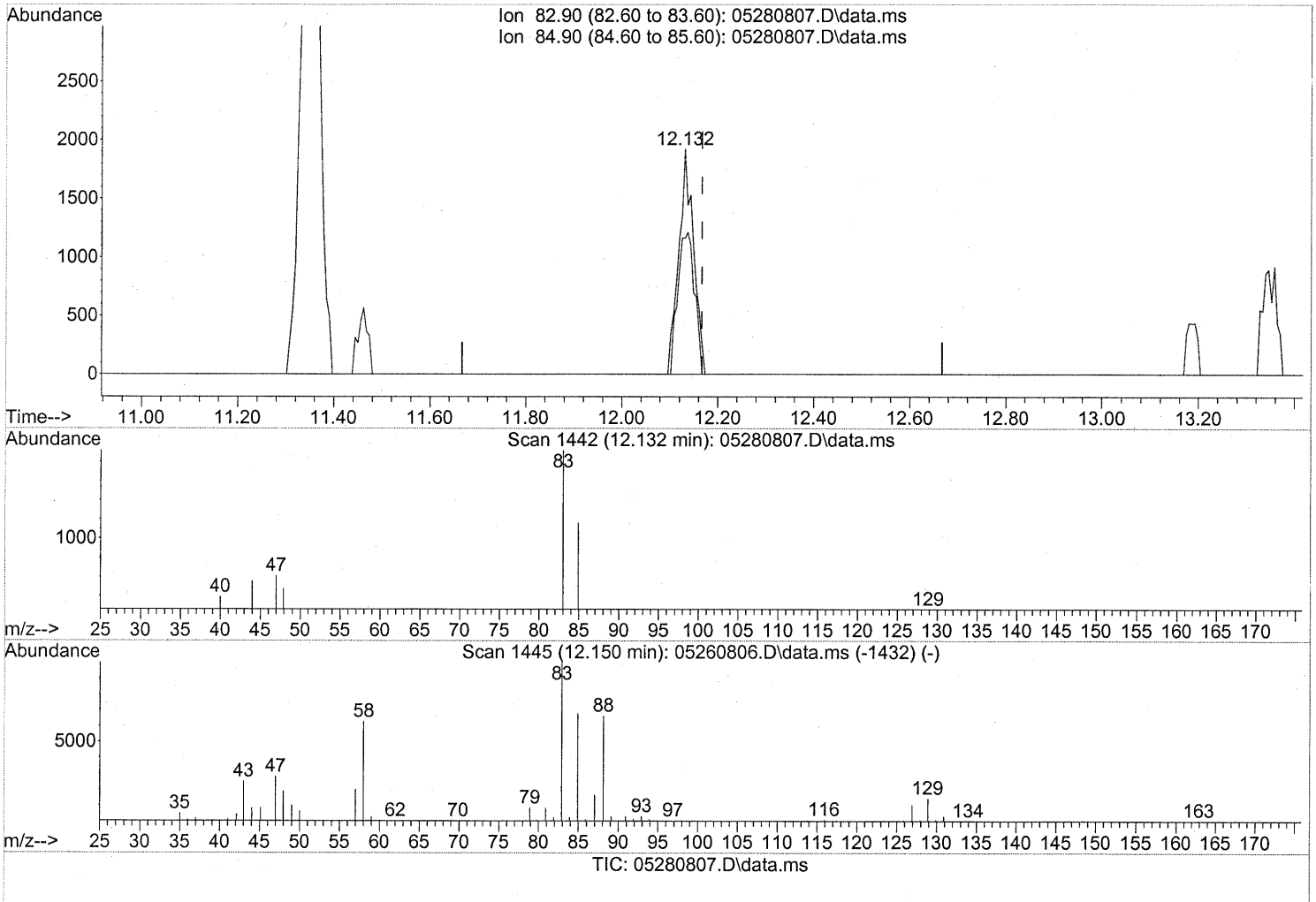
response 63141

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	95.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(46) Bromodichloromethane (T)

12.132min (-0.036) 0.22ng

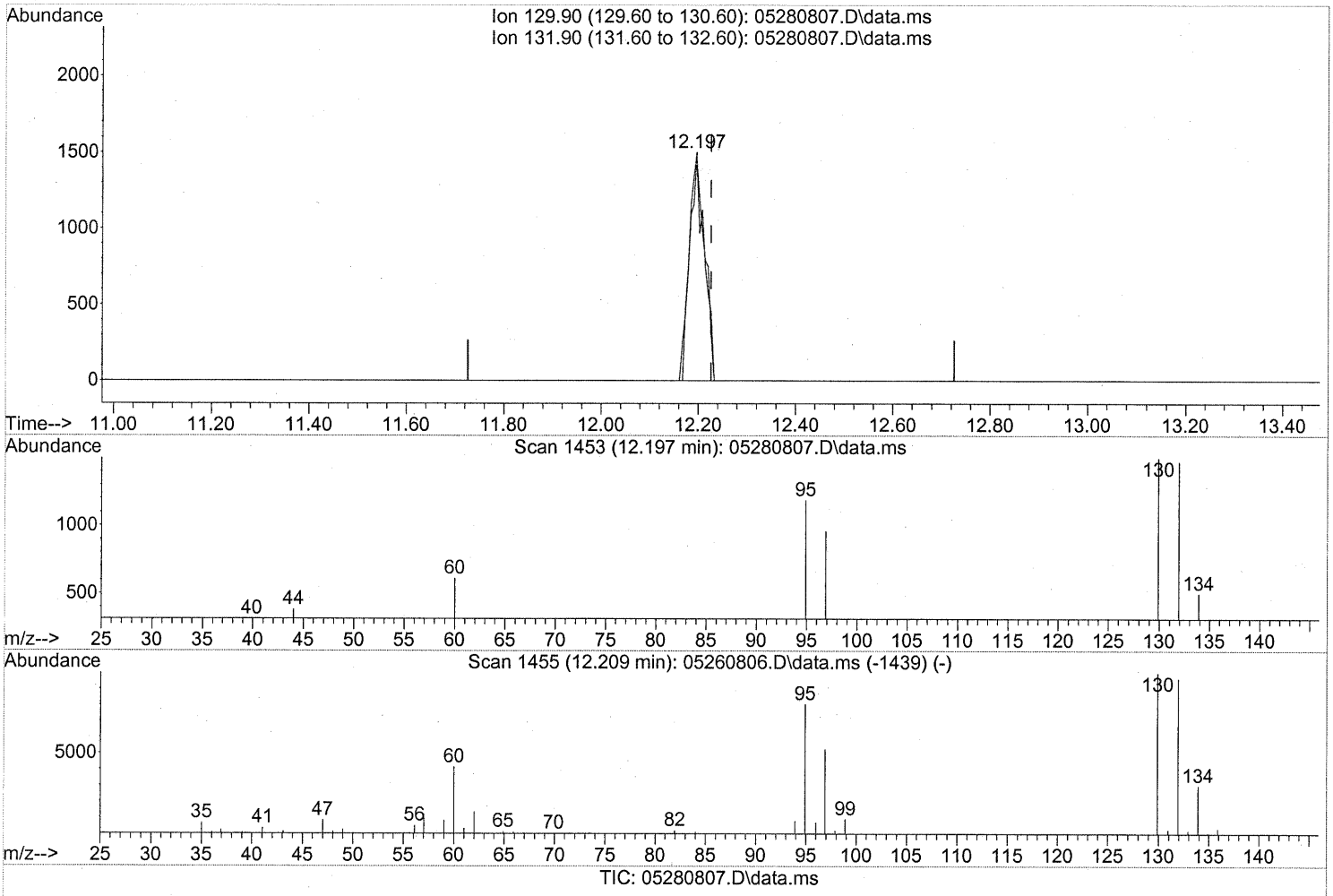
response 4167

Ion	Exp%	Act%
82.90	100	100
84.90	62.30	70.82
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(47) Trichloroethene (T)

12.197min (-0.030) 0.16ng

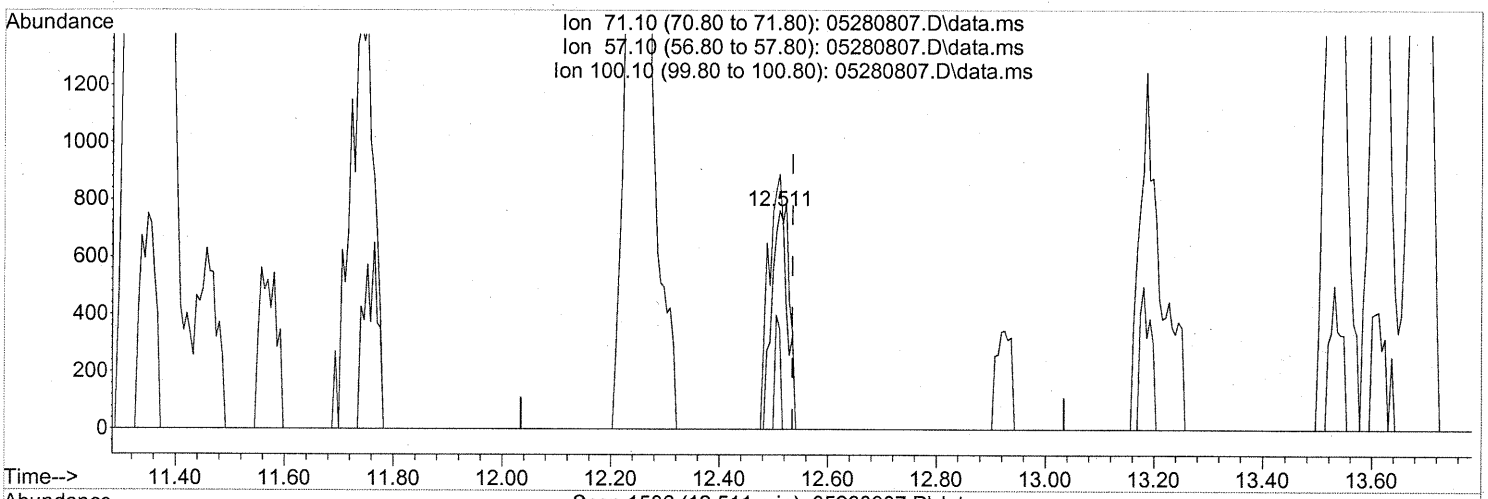
response 3218

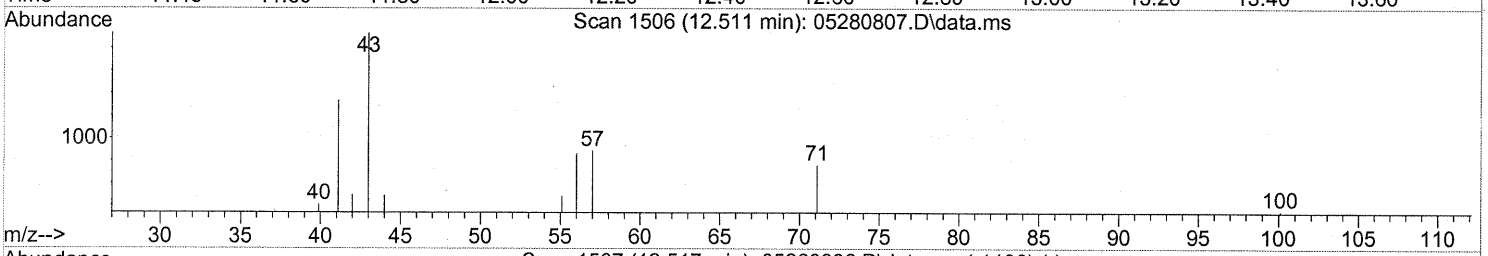
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	101.06
0.00	0.00	0.00
0.00	0.00	0.00

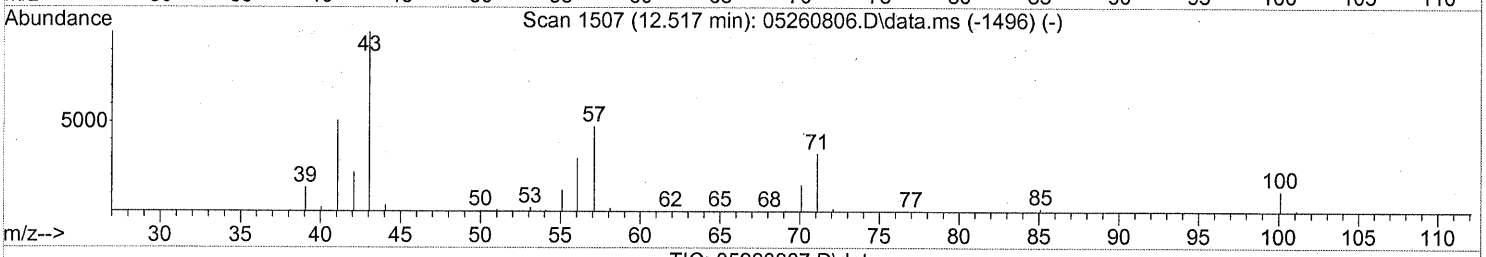
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280807.D\data.ms

(51) n-Heptane (T)

12.511min (-0.024) 0.10ng

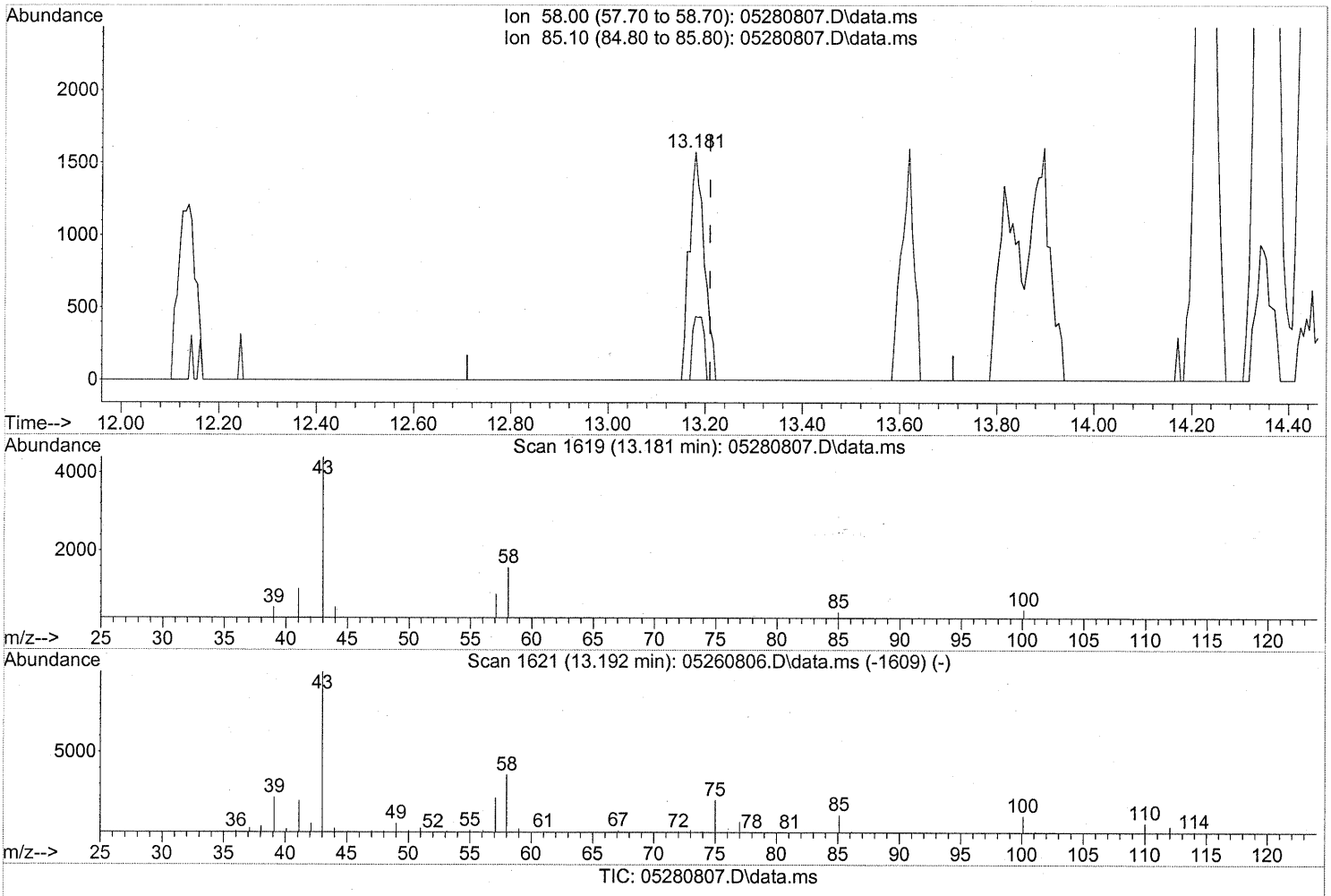
response 1534

Ion	Exp%	Act%
71.10	100	100
57.10	88.70	143.74#
100.10	28.80	17.41
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

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

13.181min (-0.030) 0.15ng

response 3409

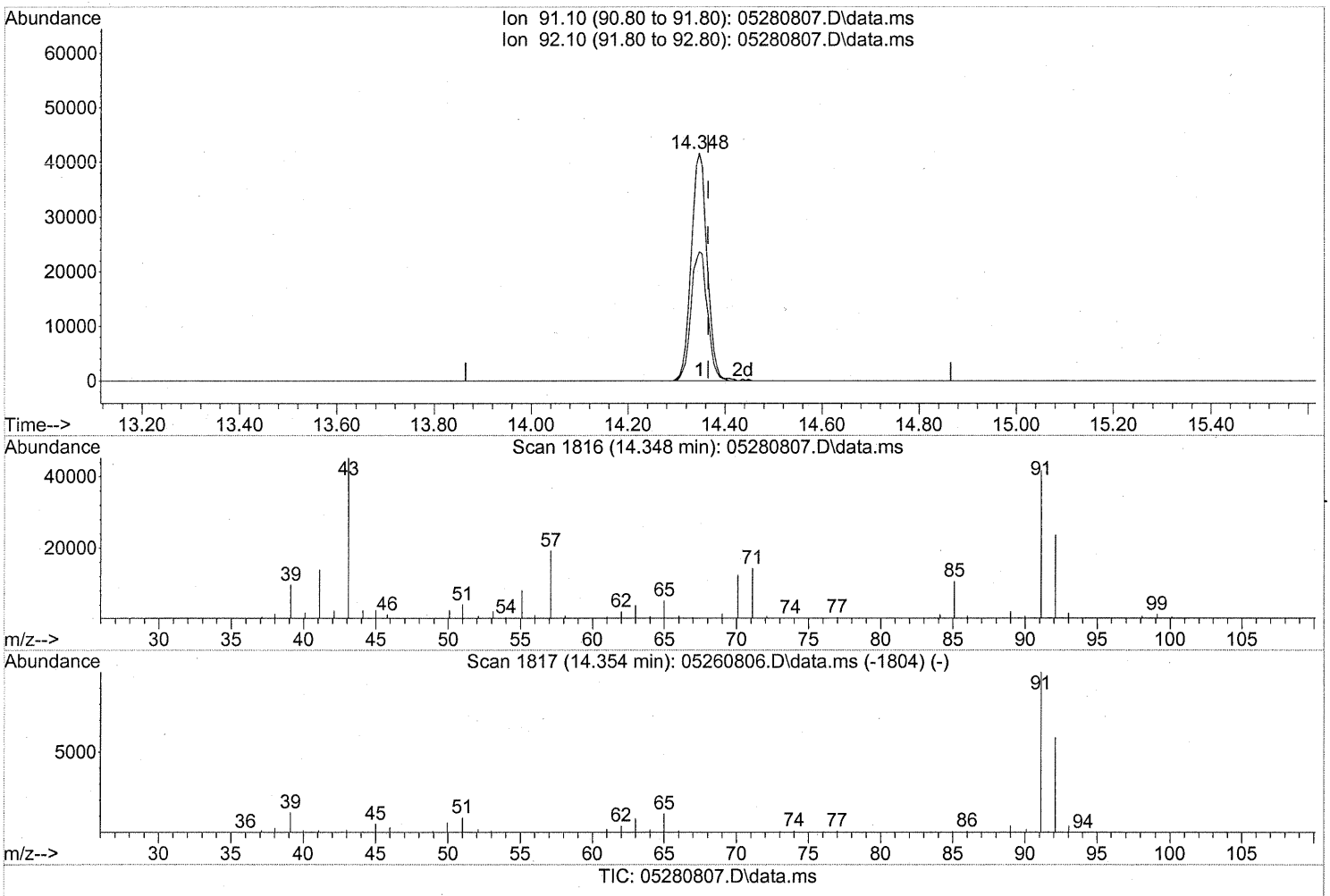
Ion	Exp%	Act%
58.00	100	100
85.10	40.70	20.50#
0.00	0.00	0.00
0.00	0.00	0.00

221

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 1.29ng

response 94466

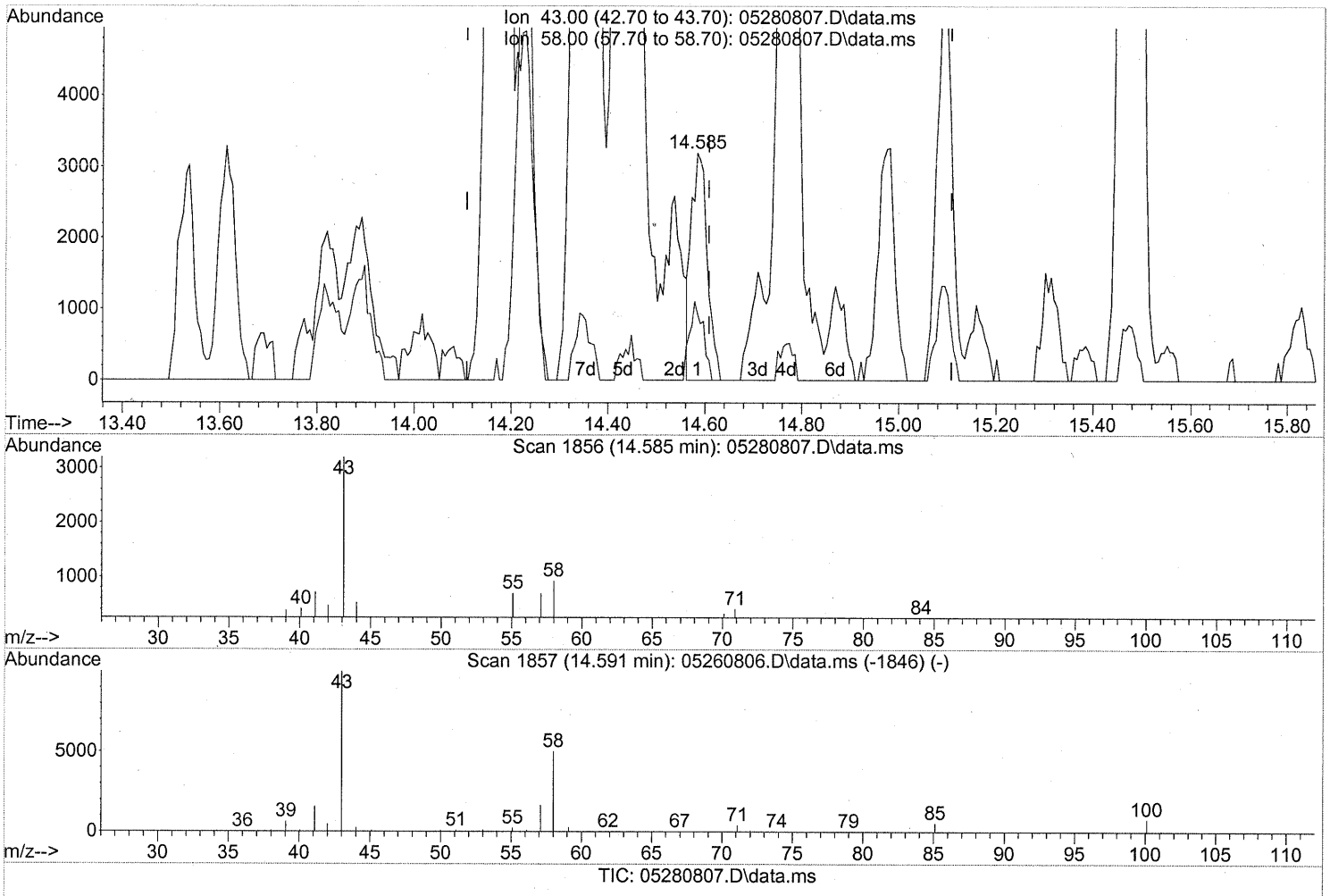
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	58.44
0.00	0.00	0.00
0.00	0.00	0.00

222

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(59) 2-Hexanone (T)

14.585min (-0.024) 0.11ng

response 7402

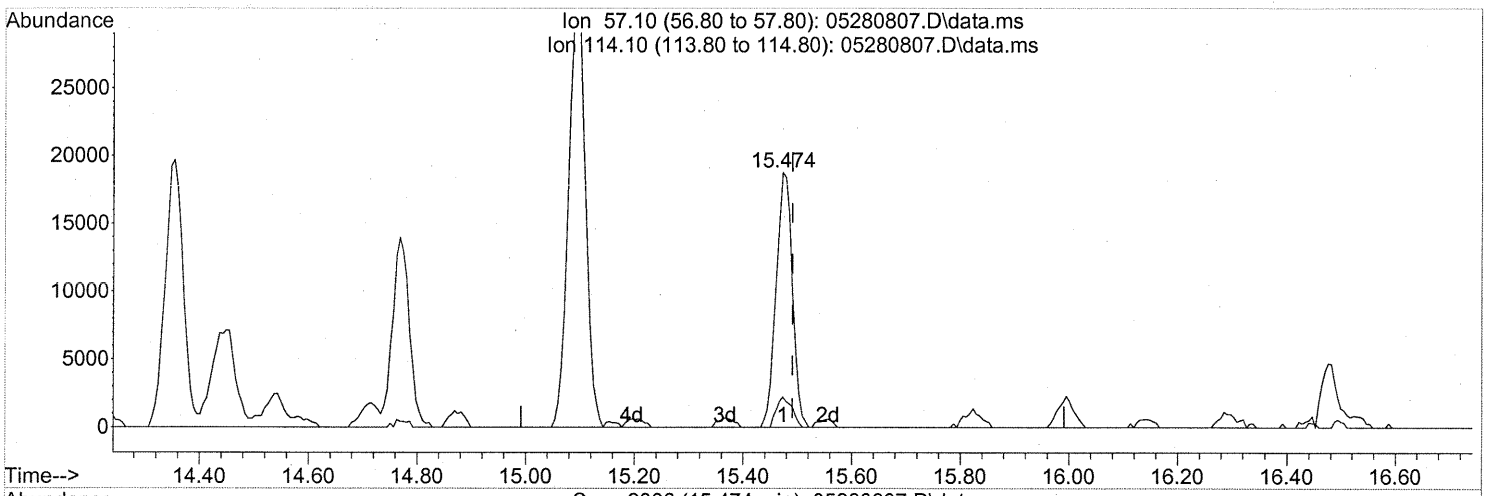
Ion	Exp%	Act%
43.00	100	100
58.00	50.90	29.37#
0.00	0.00	0.00
0.00	0.00	0.00

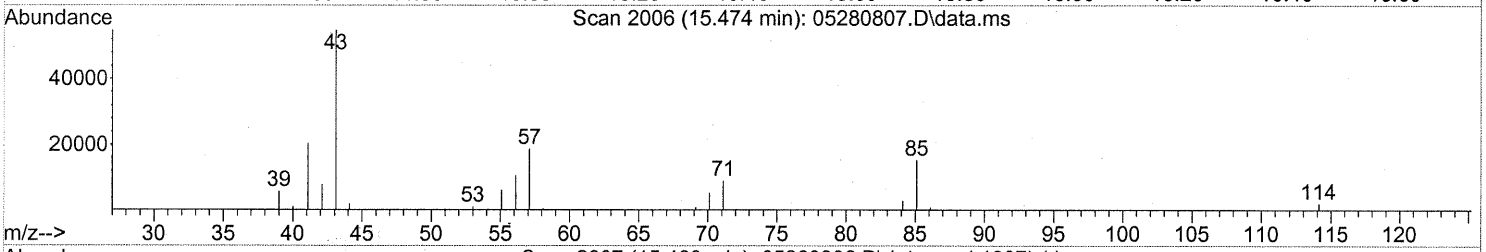
223

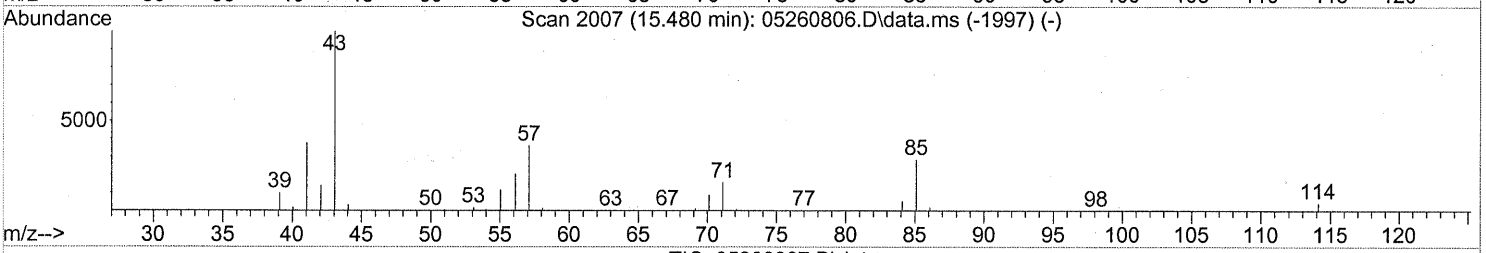
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280807.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 1.76ng

response 38984

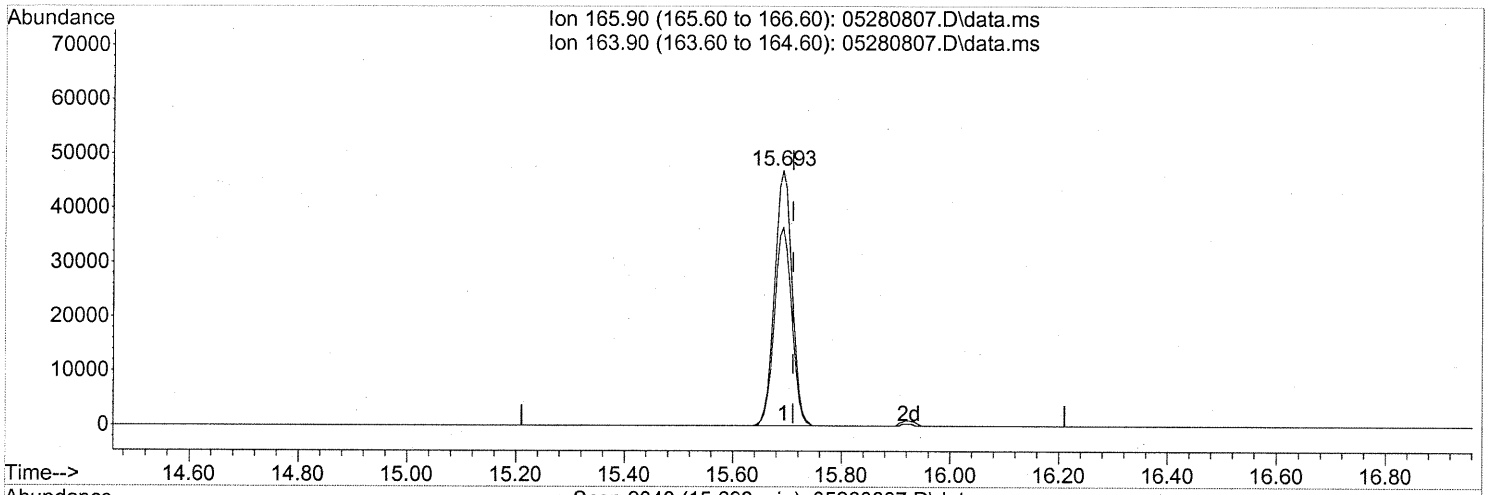
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.22
0.00	0.00	0.00
0.00	0.00	0.00

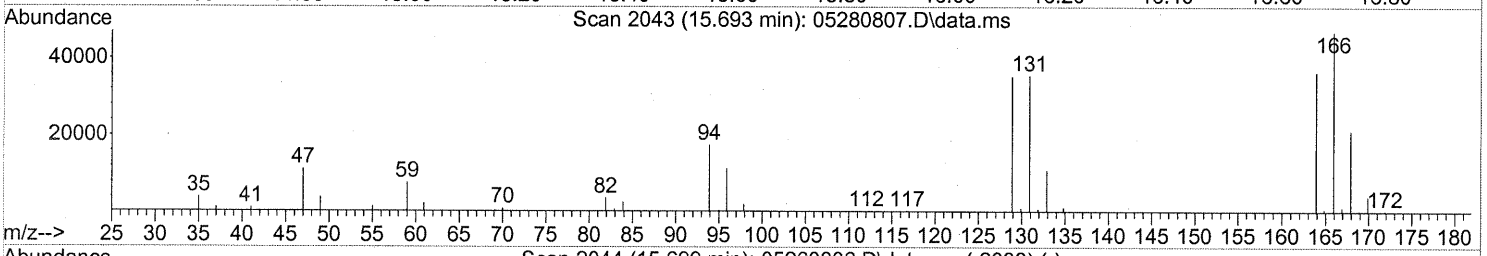
224

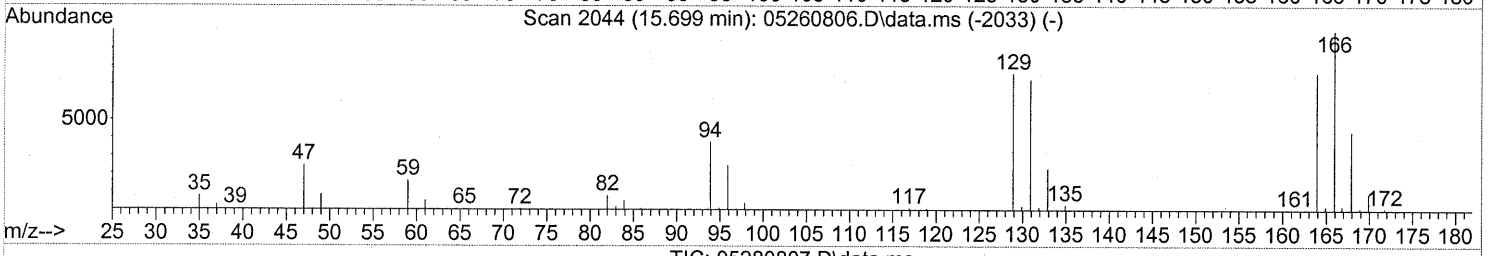
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280807.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 4.82ng

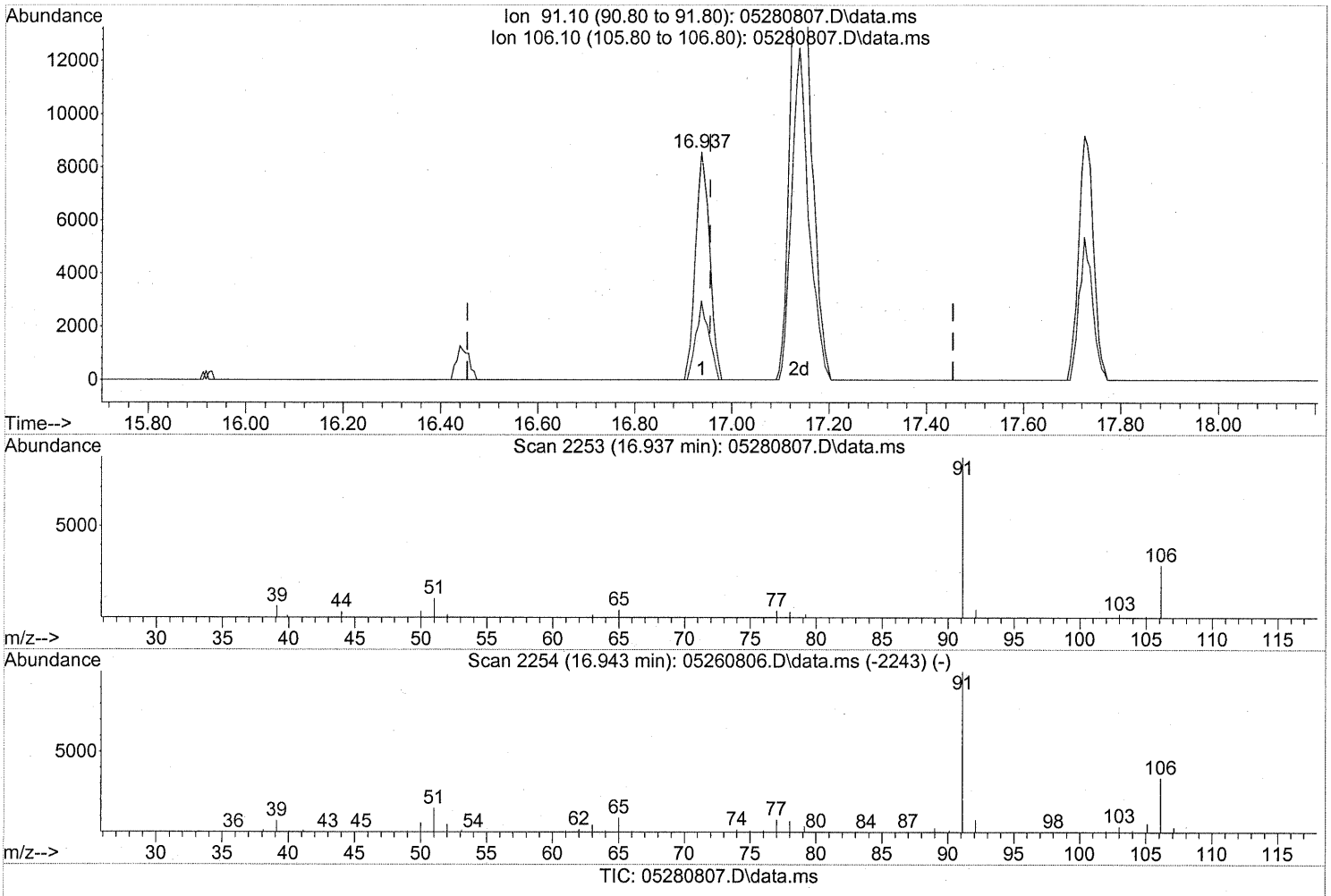
response 104322

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	77.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.21ng

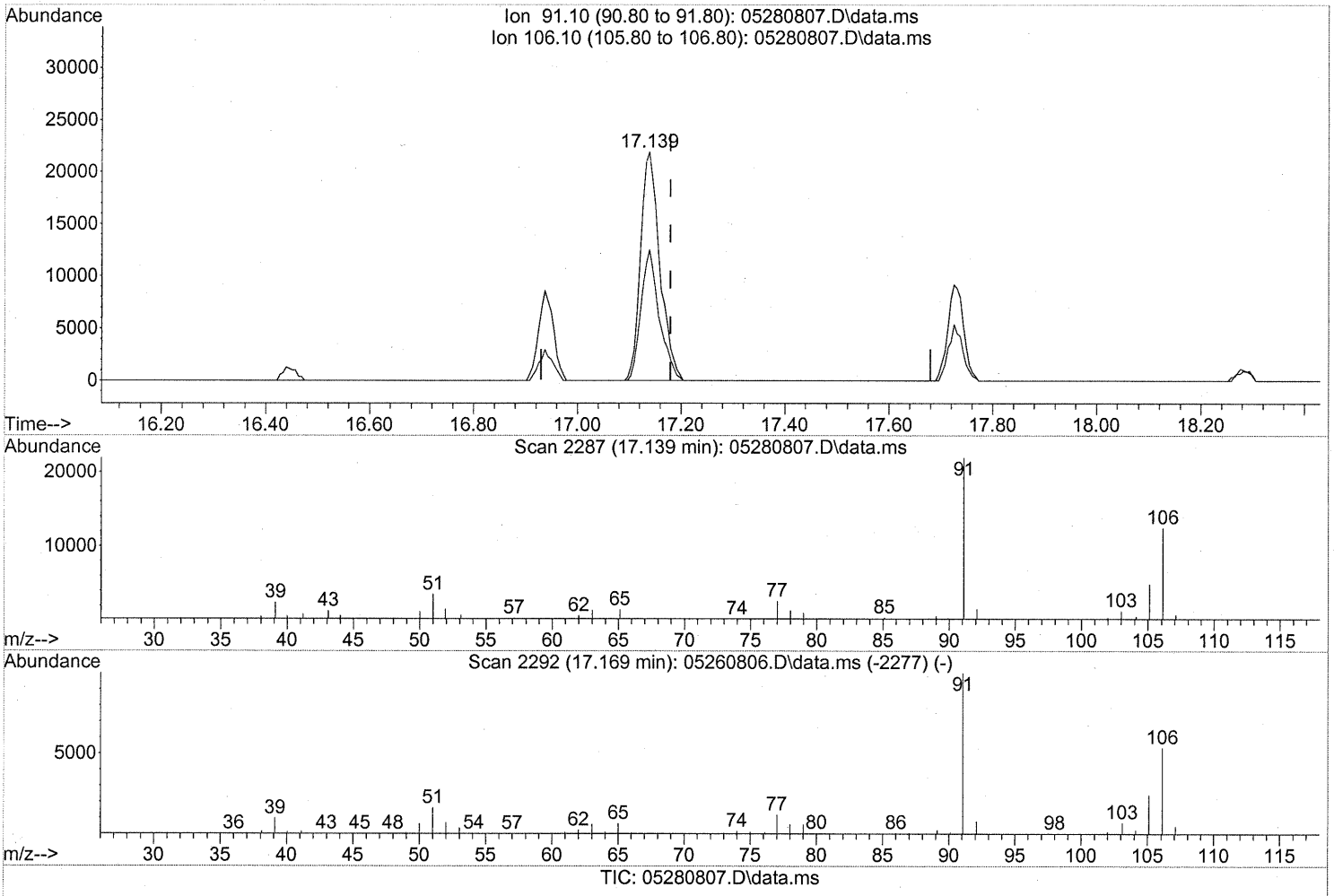
response 17238

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	31.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

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

17.139min (-0.042) 1.03ng

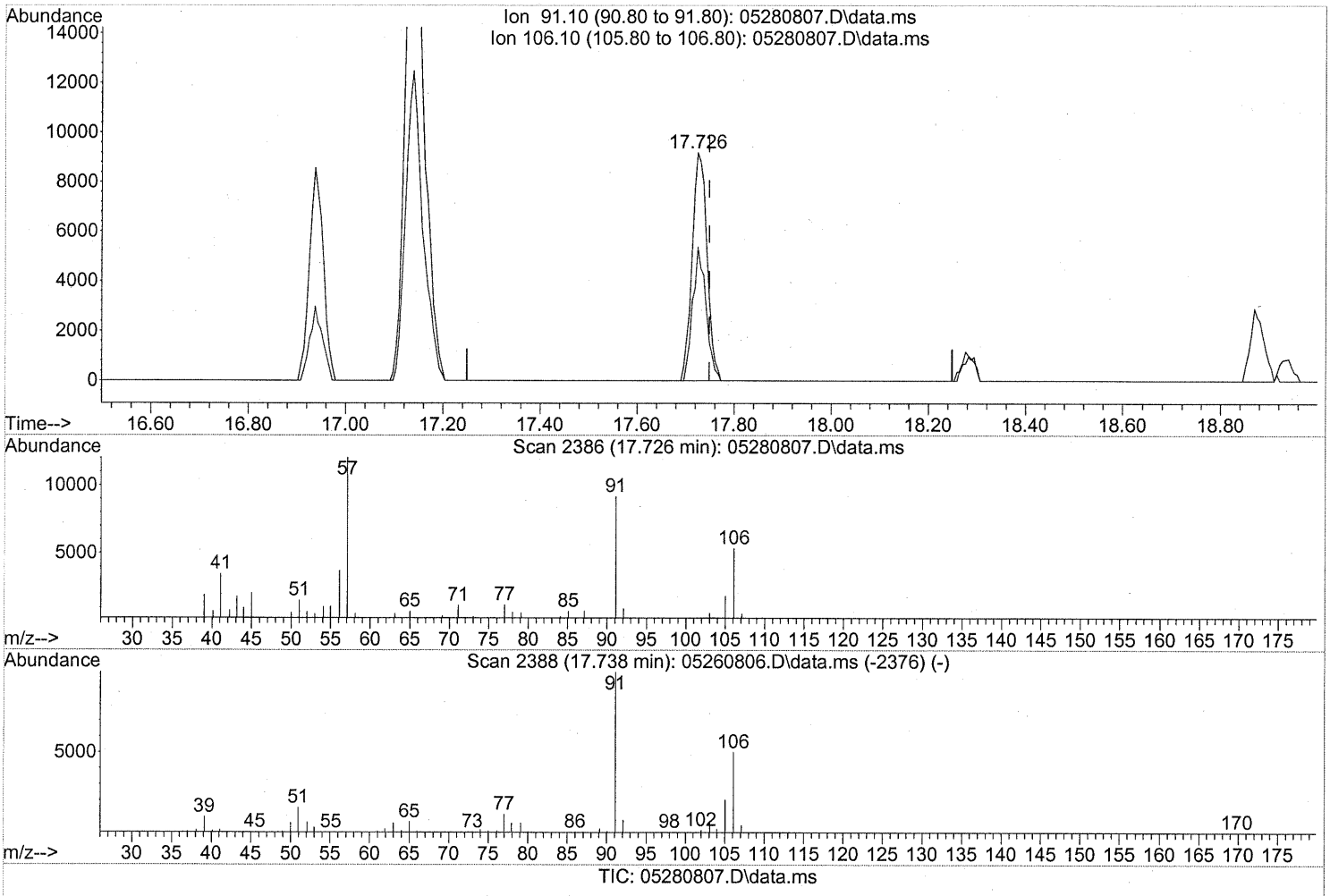
response 56747

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	54.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.33ng

response 19694

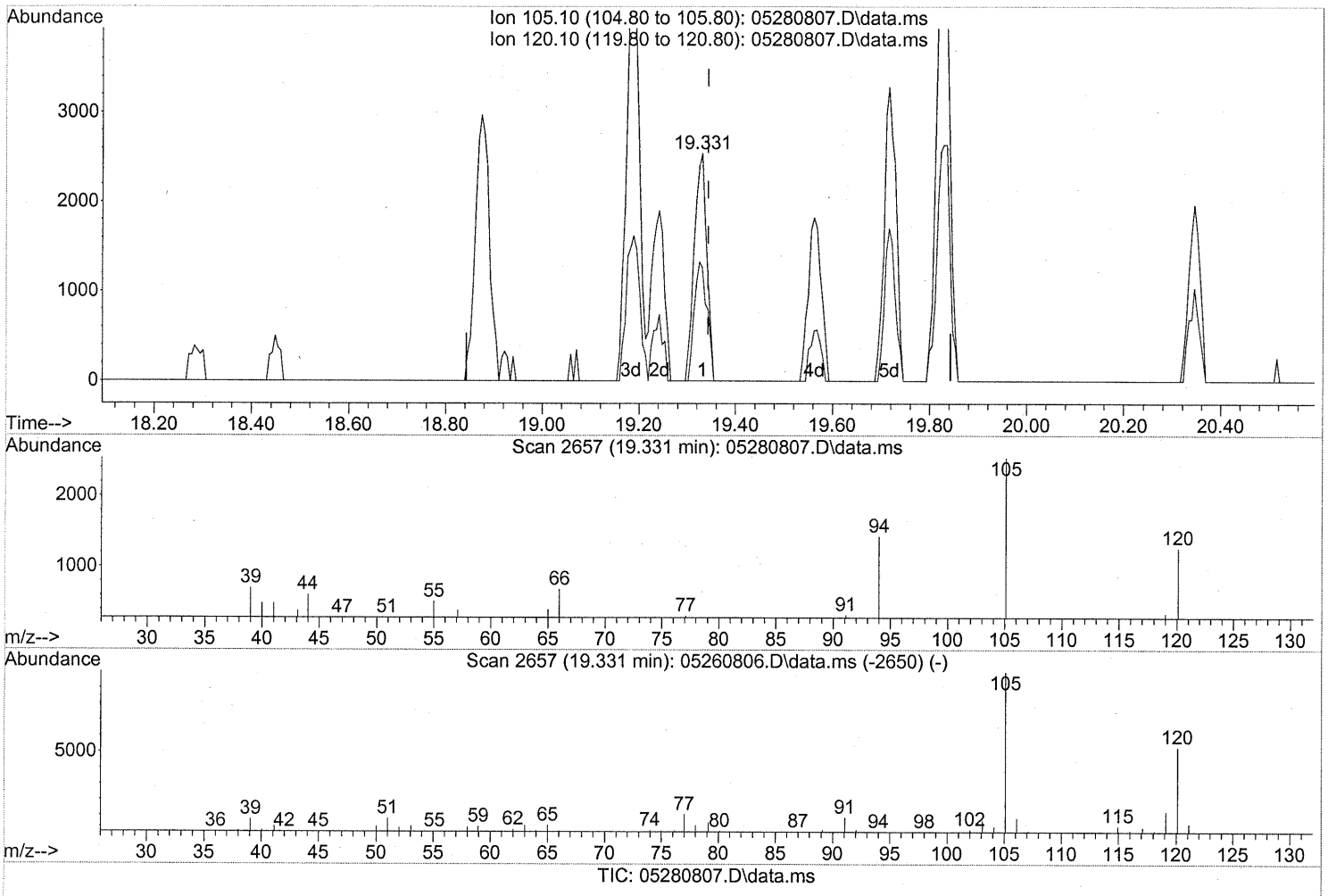
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	52.58
0.00	0.00	0.00
0.00	0.00	0.00

228

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

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

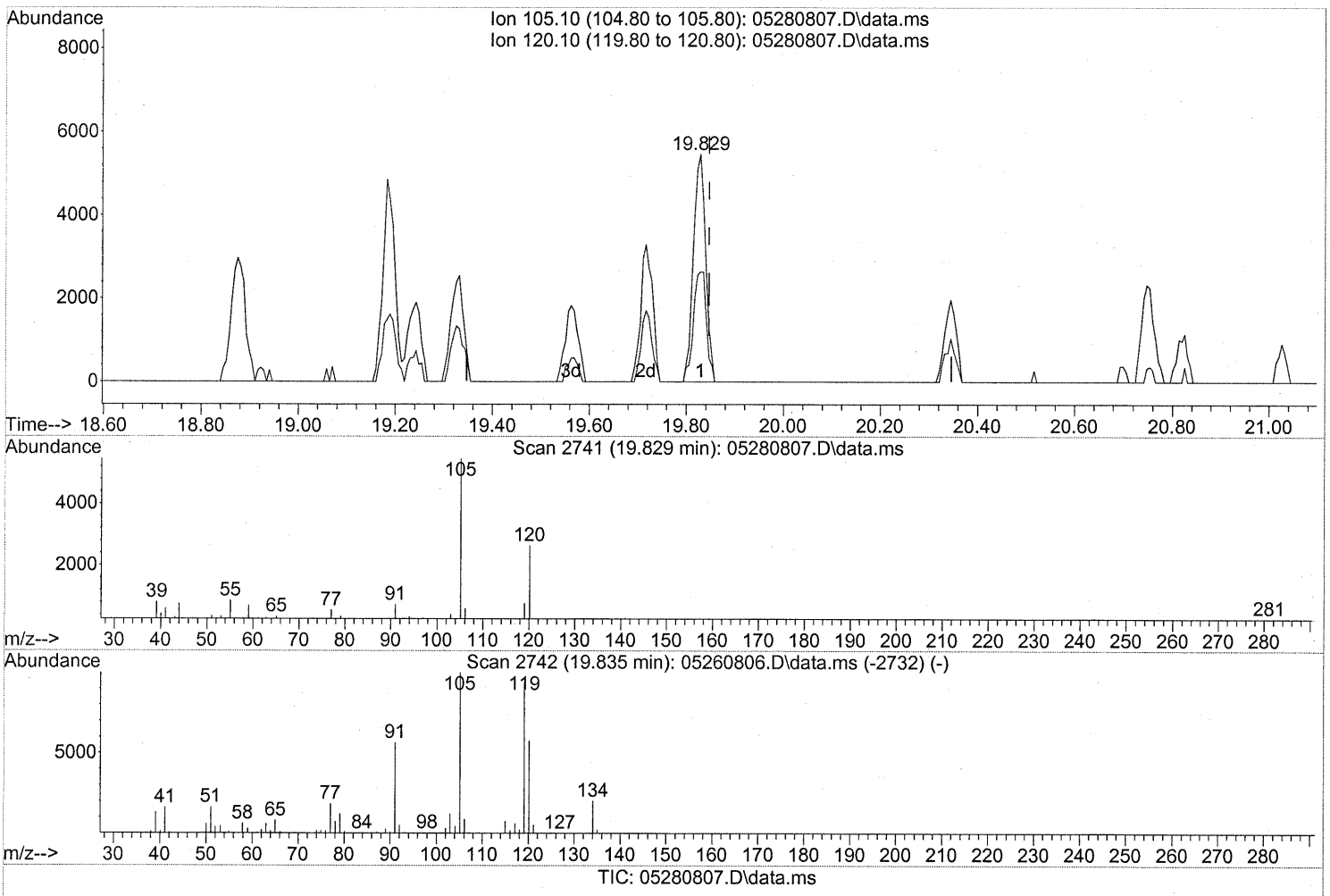
19.331min (-0.012) 0.06ng

response 4562

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	52.78
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

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

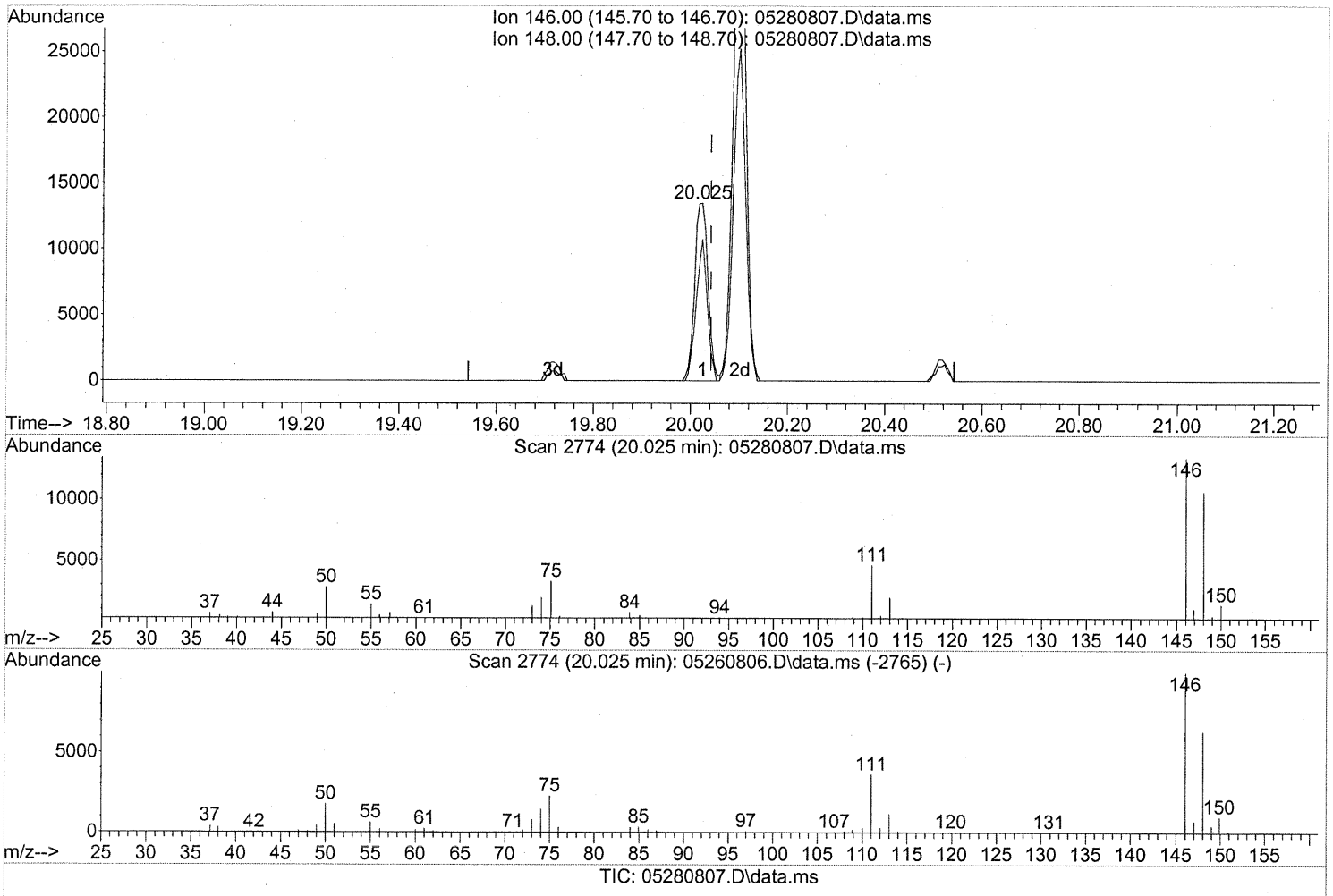
19.829min (-0.018) 0.13ng

response 9622

Ion	Exp%	Act%
105.10	100	100
120.10	51.70	51.30
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(85) 1,3-Dichlorobenzene (T)

20.025min (-0.018) 0.54ng

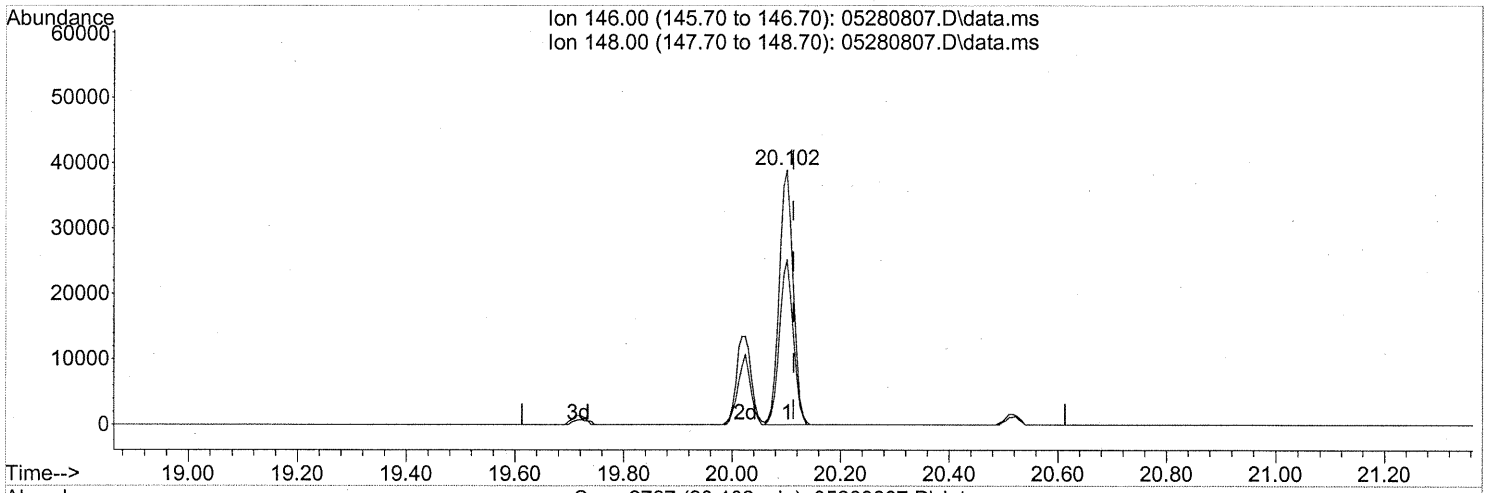
response 25943

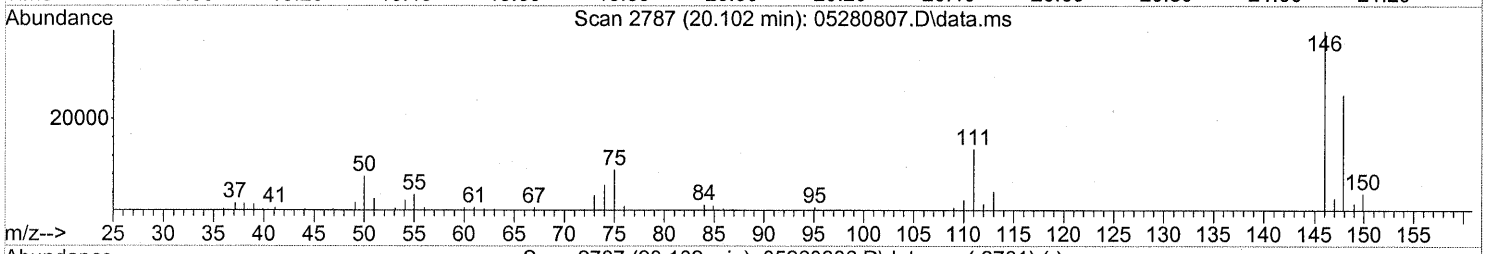
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	65.99
0.00	0.00	0.00
0.00	0.00	0.00

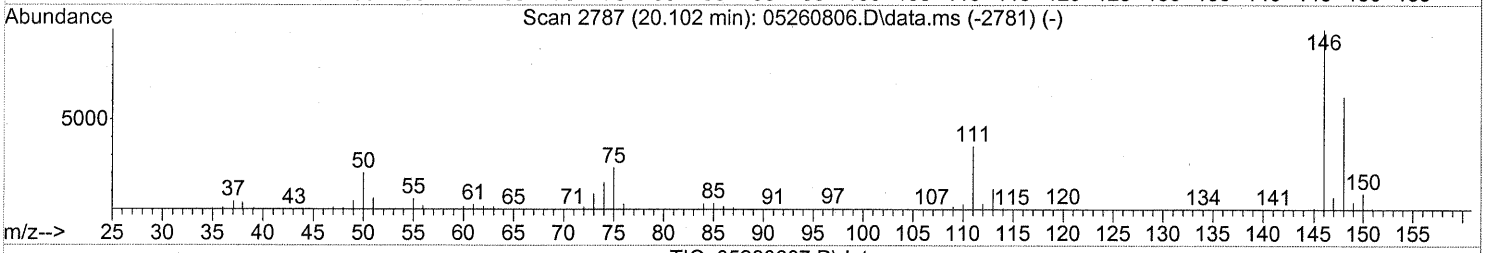
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280807.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 1.48ng

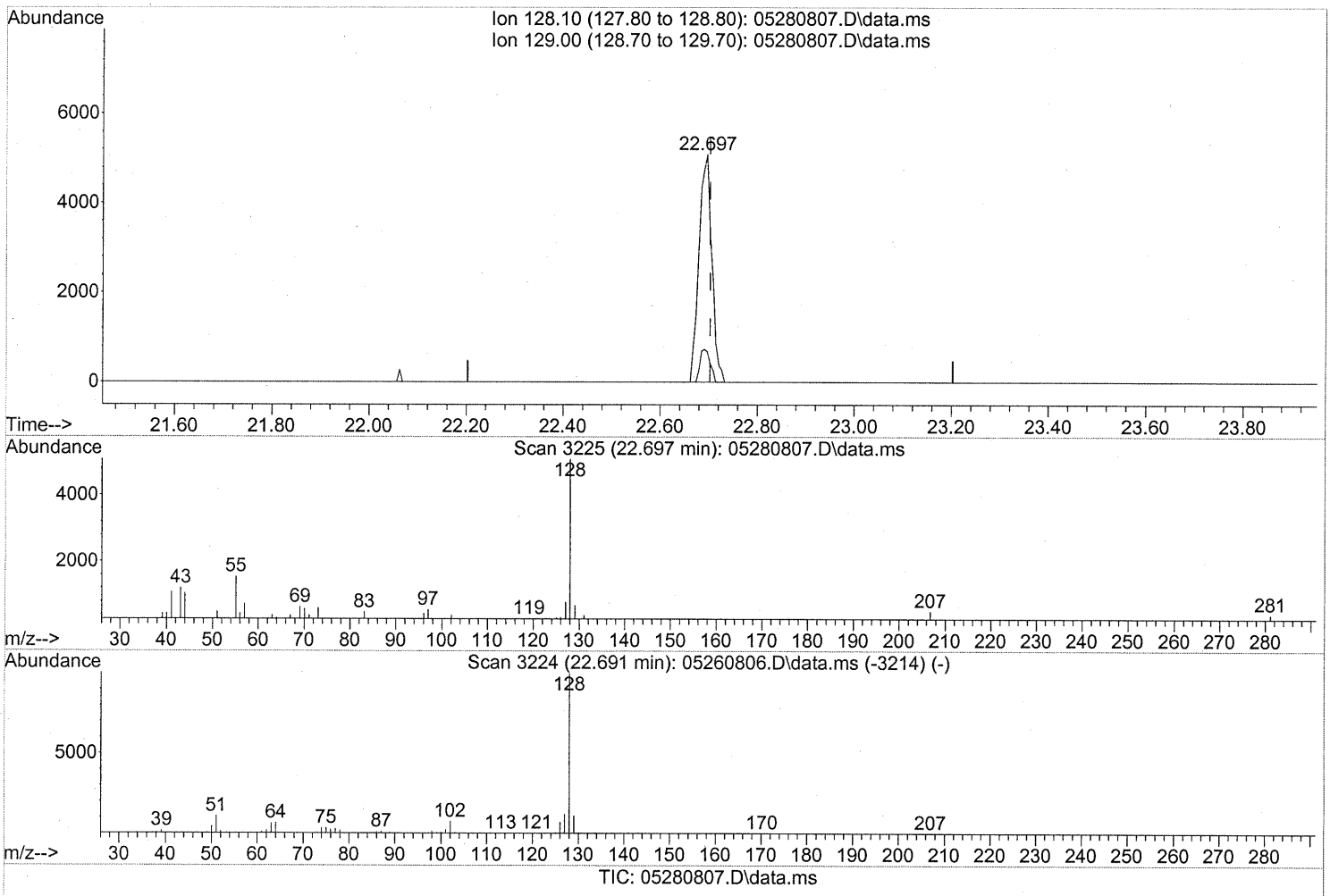
response 69617

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.74
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(95) Naphthalene (T)

22.697min (-0.006) 0.08ng

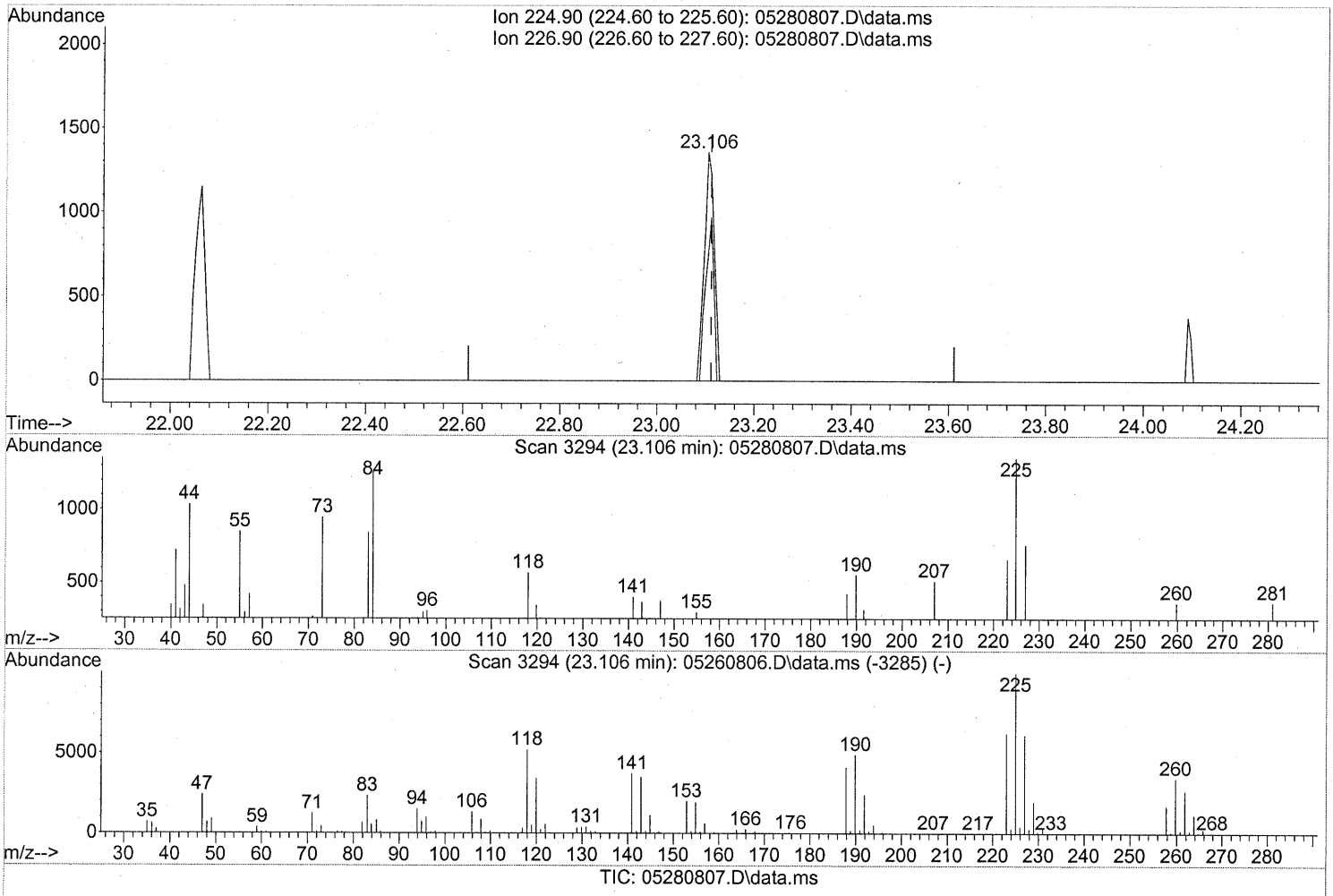
response 9382

Ion	Exp%	Act%
128.10	100	100
129.00	10.40	11.43
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 14:45:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280807.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

23.106min (-0.006) 0.15ng

response 1936

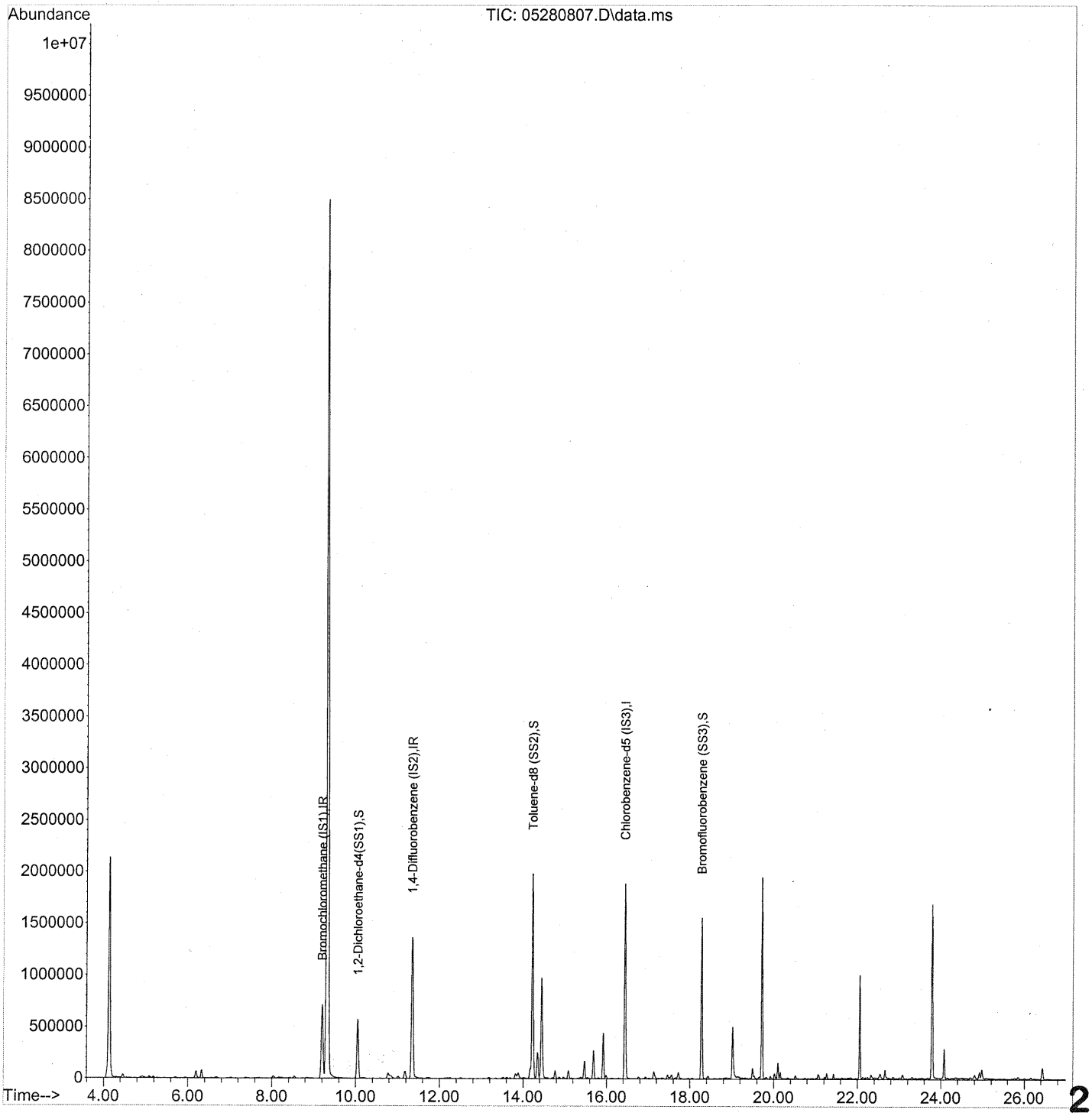
Ion	Exp%	Act%
224.90	100	100
226.90	63.00	58.11
0.00	0.00	0.00
0.00	0.00	0.00

234

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 04 14:39:43 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280807.D
Acq On : 28 May 2008 13:21
Operator : WA
Sample : P0801507-005 (100ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

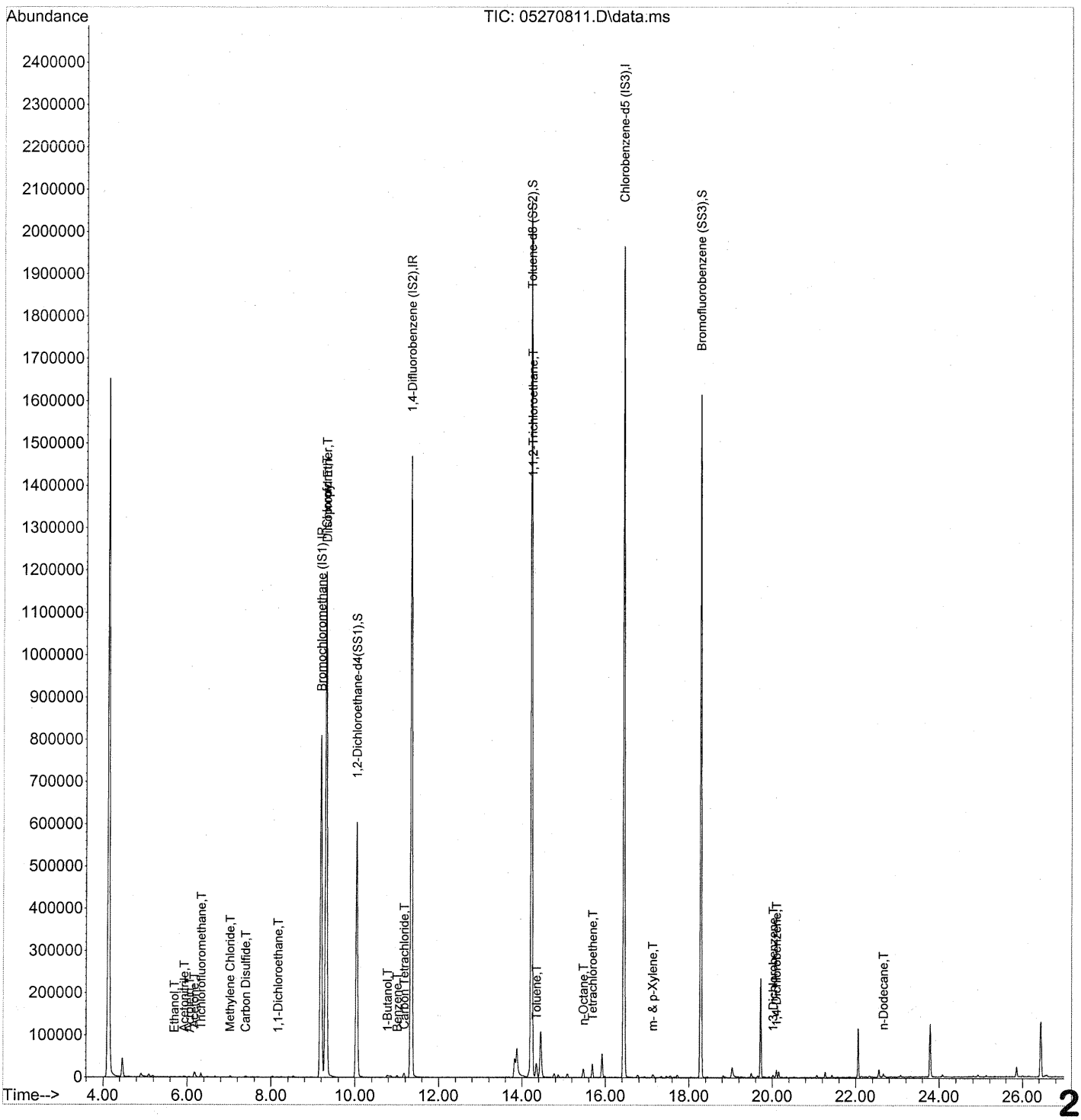
Quant Time: Jun 04 14:39:43 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	370470	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.35	114	1515272	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	626252	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	520853	24.588	ng	-0.04
Spiked Amount 25.000			Recovery =	98.36%		
5) Toluene-d8 (SS2)	14.23	98	1555286	24.089	ng	-0.02
Spiked Amount 25.000			Recovery =	96.36%		
6) Bromofluorobenzene (SS3)	18.28	174	553601	25.790	ng	-0.01
Spiked Amount 25.000			Recovery =	103.16%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	1284	N.D.		
8) n-Butylbenzene	20.84	91	1538	N.D.		

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

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 19:12
Operator : WA
Sample : P0801507-005 Dil (20ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:46:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 19:12
Operator : WA
Sample : P0801507-005 Dil (20ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:46:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	402647	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1659207	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	667638	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	563723	24.485	ng		-0.05
Spiked Amount 25.000			Recovery =	97.92%			✓
57) Toluene-d8 (SS2)	14.22	98	1673568	24.314	ng		-0.02
Spiked Amount 25.000			Recovery =	97.24%			✓
73) Bromofluorobenzene (SS3)	18.28	174	580241	25.355	ng		-0.01
Spiked Amount 25.000			Recovery =	101.40%			✓
Target Compounds							Qvalue
2) Propene	4.47	42	991	N.D.			
3) Dichlorodifluoromethane	4.56	85	432	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	5.70	45	1307	0.062	ng	#	53
11) Acetonitrile	5.93	41	3194	0.052	ng	#	1
12) Acrolein	6.06	56	890	0.058	ng		89
13) Acetone	6.17	58	7077	0.336	ng	#	60
14) Trichlorofluoromethane	6.33	101	9150	0.259	ng		95
15) Isopropanol	6.37	45	1049	N.D.			
16) Acrylonitrile	6.61	53	148	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.98	59	103	N.D.			
19) Methylene Chloride	7.02	84	958	0.059	ng	#	25
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3608	0.055	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.16	63	1741	0.051	ng	#	55
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	327	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	131034	9.044	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

JDA 6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 19:12
Operator : WA
Sample : P0801507-005 Dil (20ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:46:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	1192769	50.200	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.16	62	97	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	10.77	56	8085	0.296	ng	#	66
41) Benzene	11.01	78	4388	0.063	ng		94
42) Carbon Tetrachloride	11.18	117	8138	0.284	ng		96
43) Cyclohexane	11.33	84	802	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	12.13	83	115	N.D.			
47) Trichloroethene	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.25	57	1259	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	14.24	97	142025	8.347	ng	#	7
58) Toluene	14.35	91	12893	0.165	ng		96
59) 2-Hexanone	14.58	43	1064	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.32	43	99	N.D.			
63) n-Octane	15.47	57	4461	0.189	ng		85
64) Tetrachloroethene	15.69	166	12345	0.535	ng		94
65) Chlorobenzene	16.50	112	389	N.D.			
66) Ethylbenzene	16.93	91	2534	N.D.			
67) m- & p-Xylene	17.13	91	7614	0.129	ng		95
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.58	104	491	N.D.			
70) o-Xylene	17.74	91	2494	N.D.			
71) n-Nonane	17.97	43	387	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	590	N.D.			
75) alpha-Pinene	18.93	93	297	N.D.			
76) n-Propylbenzene	19.06	91	254	N.D.			
77) 3-Ethyltoluene	19.18	105	1142	N.D.			
78) 4-Ethyltoluene	19.24	105	542	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	645	N.D.			

6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 19:12
Operator : WA
Sample : P0801507-005 Dil (20ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:46:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	1856	N.D.			
81) 2-Ethyltoluene	19.56	105	578	N.D.			
82) 1,2,4-Trimethylbenzene	19.82	105	1368	N.D.			
83) n-Decane	19.93	57	1445	N.D.			
84) Benzyl Chloride	19.99	91	223	N.D.			
85) 1,3-Dichlorobenzene	20.02	146	3348	0.065	ng		98
86) 1,4-Dichlorobenzene	20.10	146	8813	0.176	ng		97
87) sec-Butylbenzene	20.34	105	654	N.D.			
88) p-Isopropyltoluene	20.34	119	462	N.D.			
89) 1,2,3-Trimethylbenzene	20.34	105	654	N.D.			
90) 1,2-Dichlorobenzene	20.52	146	275	N.D.			
91) d-Limonene	20.52	68	466	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.44	57	2554	N.D.			
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.70	128	3310	N.D.			
96) n-Dodecane	22.66	57	3148	0.053	ng	#	73
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.			

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

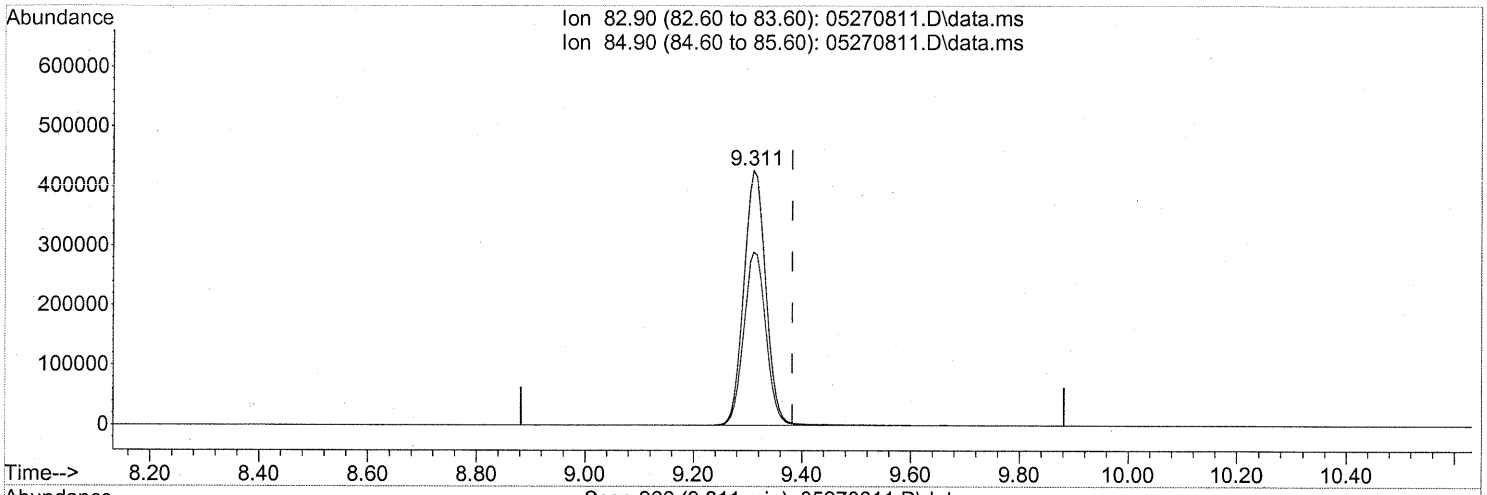
240

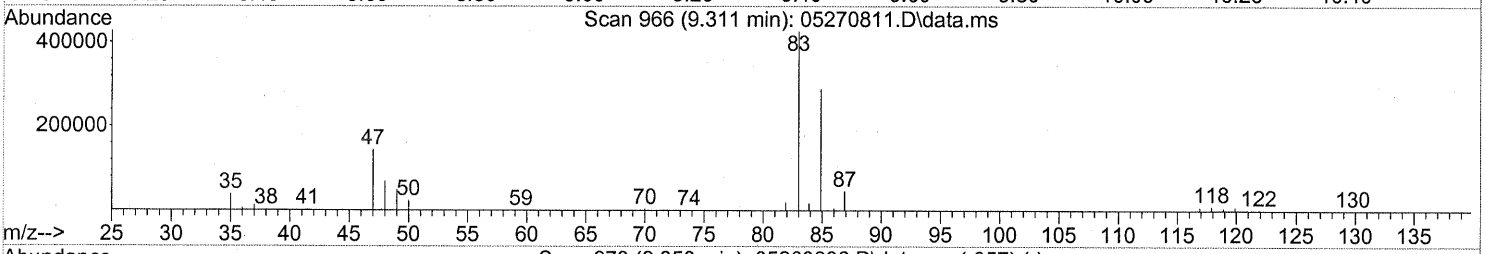
DA 6/4/08

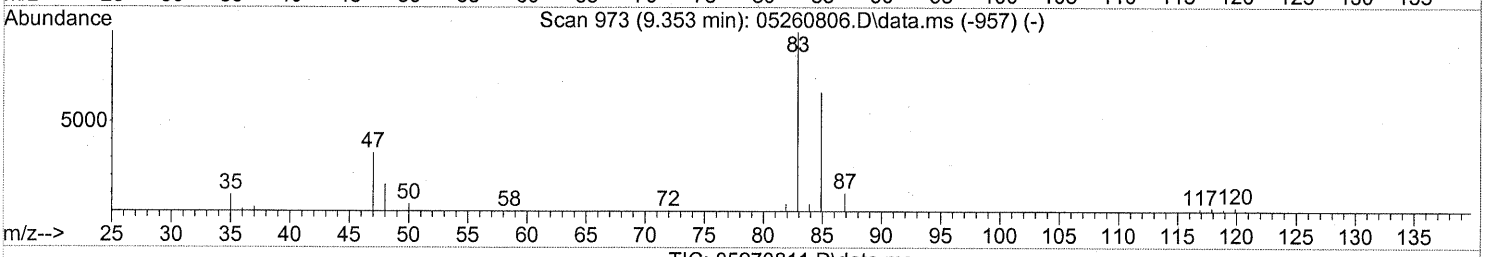
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270811.D
Acq On : 27 May 2008 19:12
Operator : WA
Sample : P0801507-005 Dil (20ml)
Misc : ENSR SG31B-05 (-3.2, 3.5)
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 28 04:46:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270811.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 50.20ng

response 1192769

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.27
0.00	0.00	0.00
0.00	0.00	0.00

241

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG60B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00811

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	170	17	ND	33	3.3	
74-87-3	Chloromethane	ND	33	17	ND	16	8.0	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	170	17	ND	24	2.4	
75-01-4	Vinyl Chloride	ND	33	17	ND	13	6.5	
74-83-9	Bromomethane	ND	33	17	ND	8.5	4.3	
75-00-3	Chloroethane	ND	33	17	ND	13	6.3	
64-17-5	Ethanol	ND	1,700	17	ND	880	8.8	
67-64-1	**Acetone**	**70**	1,700	24	**30**	690	10	**J, B**
75-69-4	**Trichlorofluoromethane**	**190**	33	17	**34**	5.9	2.9	
107-13-1	Acrylonitrile	ND	170	23	ND	76	11	
75-35-4	1,1-Dichloroethene	ND	33	17	ND	8.3	4.2	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	170	24	ND	54	8.1	
75-09-2	**Methylene Chloride**	**17**	170	17	**5.0**	48	4.8	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	33	17	ND	11	5.3	
76-13-1	Trichlorotrifluoroethane	ND	33	18	ND	4.3	2.4	
75-15-0	Carbon Disulfide	ND	170	40	ND	53	13	
156-60-5	trans-1,2-Dichloroethene	ND	33	17	ND	8.3	4.2	
75-34-3	1,1-Dichloroethane	ND	33	17	ND	8.2	4.1	
1634-04-4	Methyl tert-Butyl Ether	ND	33	17	ND	9.2	4.6	
108-05-4	Vinyl Acetate	ND	1,700	53	ND	470	15	
78-93-3	2-Butanone (MEK)	ND	170	17	ND	56	5.6	
156-59-2	cis-1,2-Dichloroethene	ND	33	17	ND	8.3	4.2	
108-20-3	Diisopropyl Ether	ND	170	19	ND	39	4.7	
67-66-3	**Chloroform**	**100,000**	33	19	**22,000**	6.8	4.0	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG60B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-006

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00811

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28 - 5/29/08
Volume(s) Analyzed: 0.0050 Liter(s)
0.0010 Liter(s)

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	170	17	ND	39	4.0	
107-06-2	1,2-Dichloroethane	ND	33	17	ND	8.2	4.1	
71-55-6	1,1,1-Trichloroethane	ND	33	17	ND	6.1	3.0	
71-43-2	Benzene	ND	33	17	ND	10	5.2	
56-23-5	**Carbon Tetrachloride**	**52**	33	17	**8.3**	5.2	2.6	
994-05-8	tert-Amyl Methyl Ether	ND	170	17	ND	39	3.9	
78-87-5	1,2-Dichloropropane	ND	33	17	ND	7.1	3.6	
75-27-4	Bromodichloromethane	ND	33	17	ND	4.9	2.5	
79-01-6	Trichloroethene	ND	33	17	ND	6.1	3.1	
123-91-1	1,4-Dioxane	ND	170	20	ND	46	5.6	
80-62-6	Methyl Methacrylate	ND	170	25	ND	40	6.0	
142-82-5	n-Heptane	ND	170	21	ND	40	5.2	
10061-01-5	cis-1,3-Dichloropropene	ND	170	17	ND	36	3.8	
108-10-1	4-Methyl-2-pentanone	ND	170	18	ND	40	4.5	
10061-02-6	trans-1,3-Dichloropropene	ND	170	21	ND	36	4.6	
79-00-5	1,1,2-Trichloroethane	ND	33	17	ND	6.1	3.0	
108-88-3	**Toluene**	**22**	170	17	**5.9**	44	4.4	**J**
591-78-6	2-Hexanone	ND	170	25	ND	40	6.1	
124-48-1	Dibromochloromethane	ND	33	22	ND	3.9	2.6	
106-93-4	1,2-Dibromoethane	ND	33	18	ND	4.3	2.3	
111-65-9	n-Octane	ND	170	17	ND	35	3.5	
127-18-4	**Tetrachloroethene**	**140**	33	17	**20**	4.9	2.4	
108-90-7	Chlorobenzene	ND	33	17	ND	7.2	3.7	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG60B-05** CAS Sample ID: P0801507-006
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/28 - 5/29/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.0050 Liter(s)
Test Notes: 0.0010 Liter(s)
Container ID: SC00811

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

Canister Dilution Factor: 1.65

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	170	20	ND	38	4.7	
179601-23-1	m,p-Xylenes	ND	170	43	ND	38	9.9	
75-25-2	Bromoform	ND	170	25	ND	16	2.4	
100-42-5	Styrene	ND	170	25	ND	39	5.9	
95-47-6	o-Xylene	ND	170	21	ND	38	4.8	
79-34-5	1,1,2,2-Tetrachloroethane	ND	33	21	ND	4.8	3.1	
98-82-8	Cumene	ND	170	18	ND	34	3.8	
103-65-1	n-Propylbenzene	ND	170	17	ND	34	3.5	
622-96-8	4-Ethyltoluene	ND	170	19	ND	34	3.8	
108-67-8	1,3,5-Trimethylbenzene	ND	170	20	ND	34	4.0	
98-83-9	alpha-Methylstyrene	ND	170	24	ND	34	5.0	
95-63-6	1,2,4-Trimethylbenzene	ND	170	23	ND	34	4.6	
100-44-7	Benzyl Chloride	ND	33	28	ND	6.4	5.5	
541-73-1	1,3-Dichlorobenzene	ND	33	20	ND	5.5	3.4	
106-46-7	1,4-Dichlorobenzene	ND	33	18	ND	5.5	3.1	
135-98-8	sec-Butylbenzene	ND	170	19	ND	30	3.5	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	170	21	ND	30	3.9	
95-50-1	1,2-Dichlorobenzene	ND	33	22	ND	5.5	3.6	
96-12-8	1,2-Dibromo-3-chloropropane	ND	170	25	ND	17	2.6	
120-82-1	1,2,4-Trichlorobenzene	ND	33	25	ND	4.4	3.4	
91-20-3	Naphthalene	ND	66	24	ND	13	4.7	
87-68-3	Hexachlorobutadiene	ND	33	30	ND	3.1	2.8	
98-06-6	tert-Butylbenzene	ND	66	17	ND	12	3.0	
104-51-8	n-Butylbenzene	ND	66	17	ND	12	3.0	

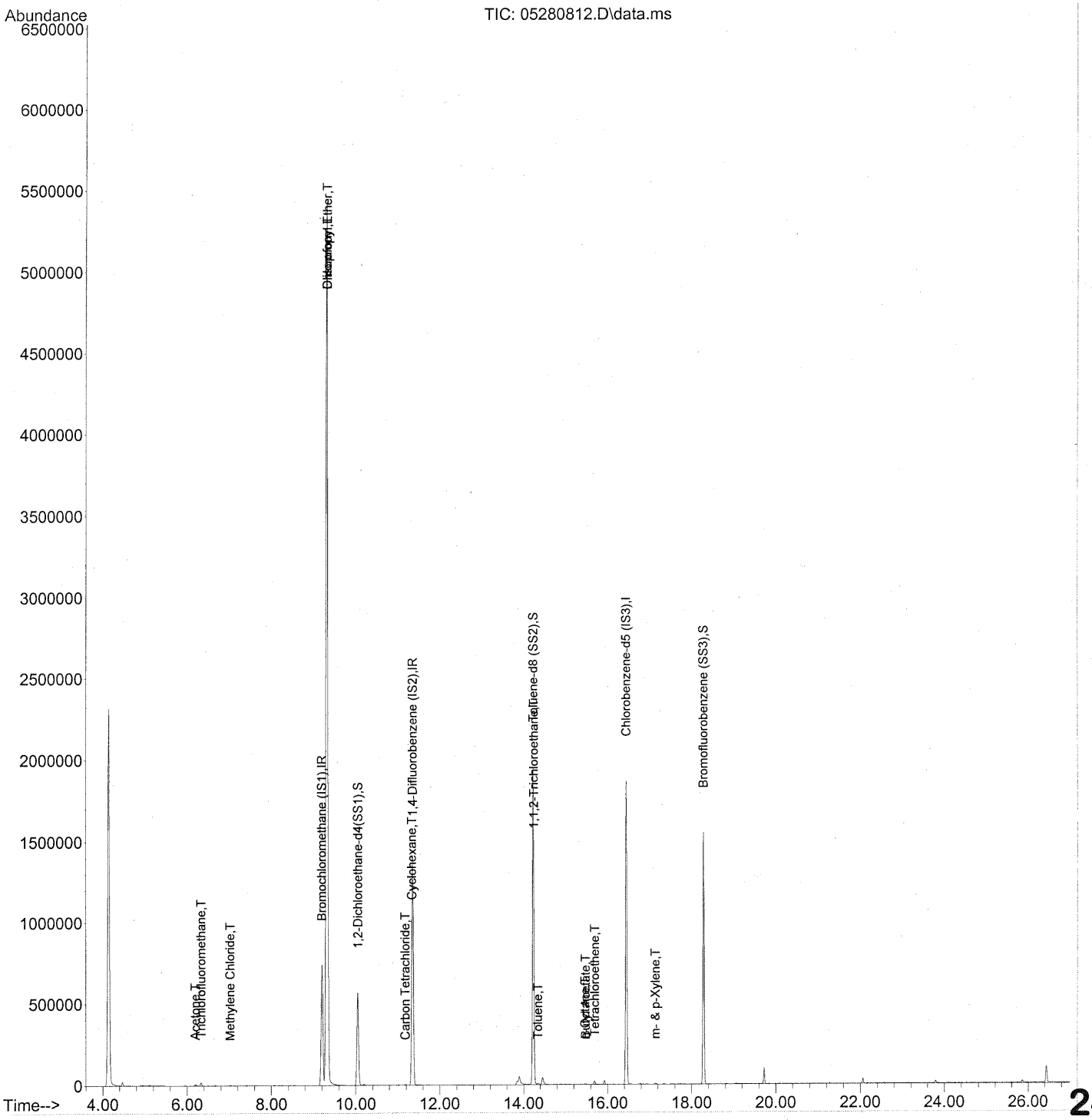
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: _____ Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 5:12 pm
Operator : WA
Sample : P0801507-006 (5ml) DF 6/4/08
Misc : ENSR SG60B-05D (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 5:12 pm
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) DA 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	371218	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1523833	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	623724	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	526566	24.807	ng		-0.04
Spiked Amount 25.000			Recovery =	99.24%			✓
57) Toluene-d8 (SS2)	14.23	98	1548853	24.087	ng		-0.02
Spiked Amount 25.000			Recovery =	96.36%			✓
73) Bromofluorobenzene (SS3)	18.28	174	552392	25.838	ng		-0.01
Spiked Amount 25.000			Recovery =	103.36%			✓
Target Compounds							Qvalue
2) Propene	4.47	42	882	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	0.00	45	0	N.D.			
11) Acetonitrile	5.96	41	1248	N.D.			
12) Acrolein	6.08	56	261	N.D.			
13) Acetone	6.19	58	4140	0.213	ng	#	63
14) Trichlorofluoromethane	6.33	101	18729	0.576	ng		93
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	7.02	84	791	0.053	ng	#	6
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.41	76	2470	N.D.			
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	427	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	9.32	87	629232	~~47.105~~ ng	UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 5:12 pm
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) DA 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	5797530	~~264.657 ng~~ at dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	0.00	62	0	N.D. ✓		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	0.00	56	0	N.D.		
41) Benzene	11.02	78	2827	N.D. ✓		
42) Carbon Tetrachloride	11.18	117	4164	0.158 ng		89
43) Cyclohexane	11.33	84	4998	0.199 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	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	14.24	97	131305	~~8.403 ng~~ NR	#	7
58) Toluene	14.34	91	4855	0.067 ng		95
59) 2-Hexanone	14.58	43	288	N.D. ✓		
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.47	43	4319	0.062 ng	#	69
63) n-Octane	15.46	57	1443	~~0.065 ng~~ NR	#	66
64) Tetrachloroethene	15.69	166	8940	0.414 ng		98
65) Chlorobenzene	0.00	112	0	N.D. ✓		
66) Ethylbenzene	16.94	91	1491	N.D. ✓		
67) m- & p-Xylene	17.14	91	5563	~~0.101 ng~~		95
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	0.00	104	0	N.D. ✓		
70) o-Xylene	17.73	91	1964	N.D. ✓		
71) n-Nonane	17.97	43	206	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. ✓		
74) Cumene	18.28	105	726	N.D. ✓		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	0.00	91	0	N.D. ✓		
77) 3-Ethyltoluene	19.19	105	1020	N.D.		
78) 4-Ethyltoluene	19.24	105	231	N.D. ✓		
79) 1,3,5-Trimethylbenzene	19.33	105	111	N.D. ✓		

247

DA 6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 5:12 pm
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

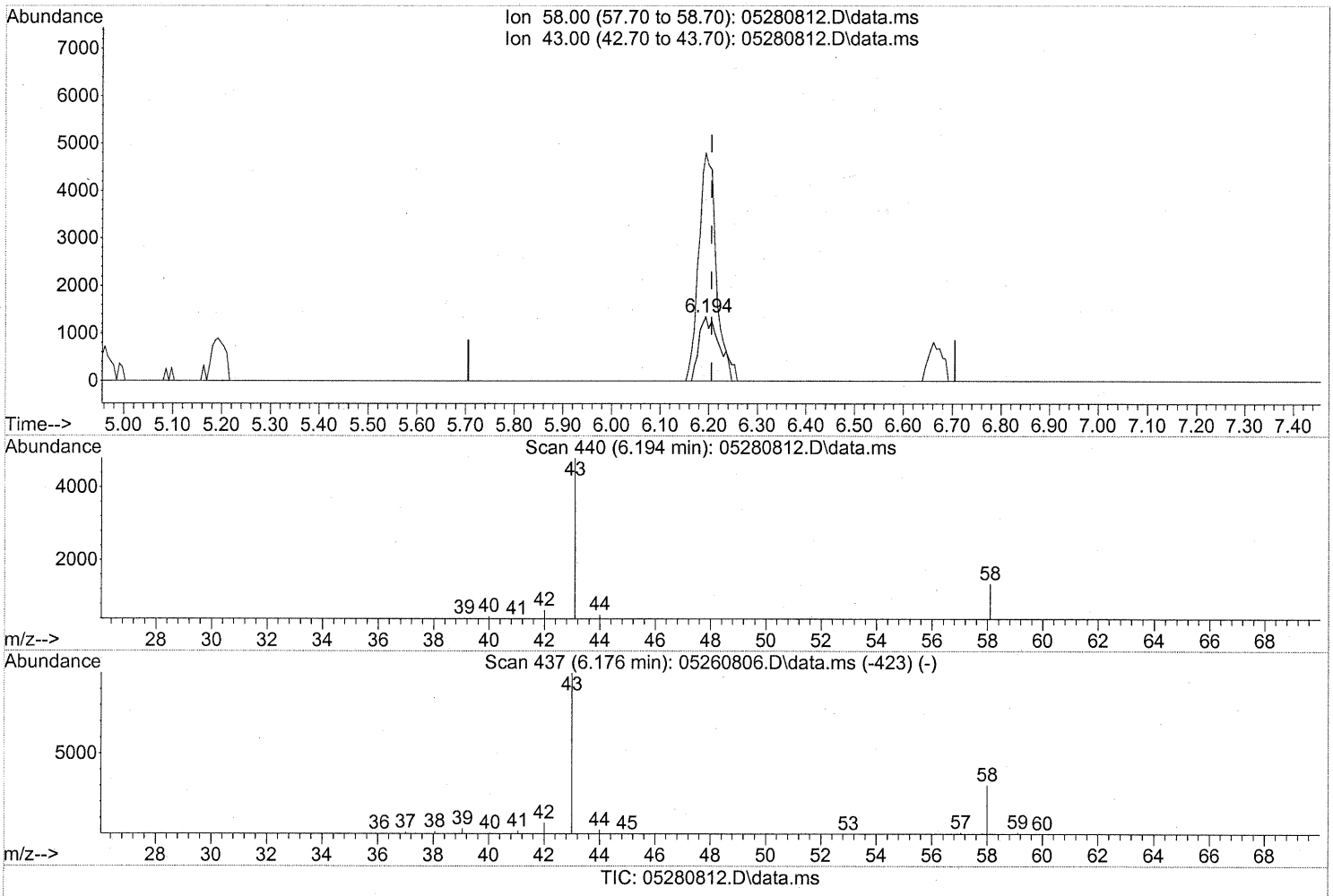
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	505	N.D.	
81) 2-Ethyltoluene	19.72	105	97	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	645	N.D.	
83) n-Decane	19.92	57	391	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	20.10	146	2225	N.D.	
86) 1,4-Dichlorobenzene	20.10	146	2225	N.D.	
87) sec-Butylbenzene	20.34	105	90	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	90	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	21.44	57	1072	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	944	N.D.	
96) n-Dodecane	22.66	57	718	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:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280812.D\data.ms

(13) Acetone (T)

6.194min (-0.012) 0.21ng

response 4140

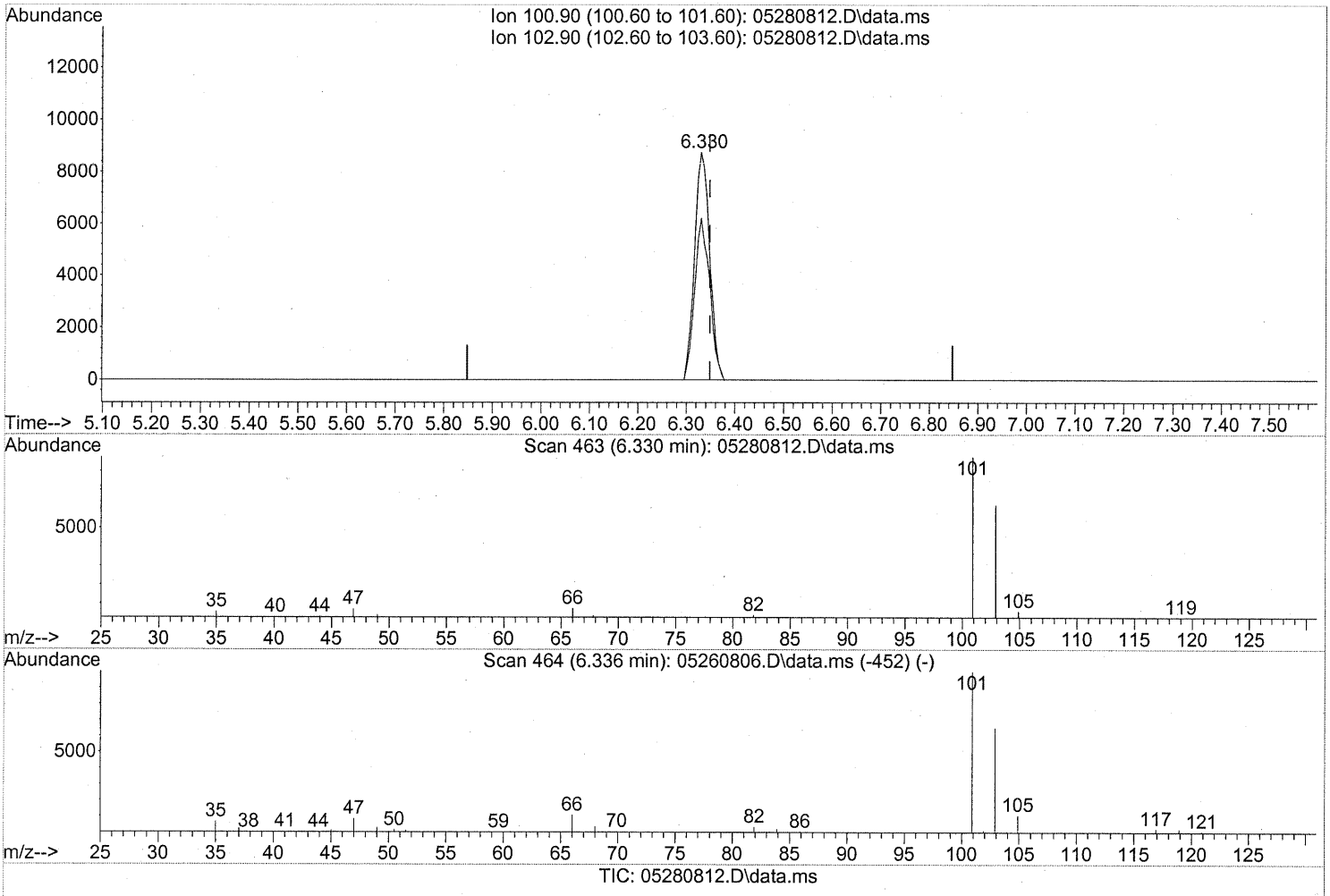
Ion	Exp%	Act%
58.00	100	100
43.00	368.40	284.28#
0.00	0.00	0.00
0.00	0.00	0.00

249

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

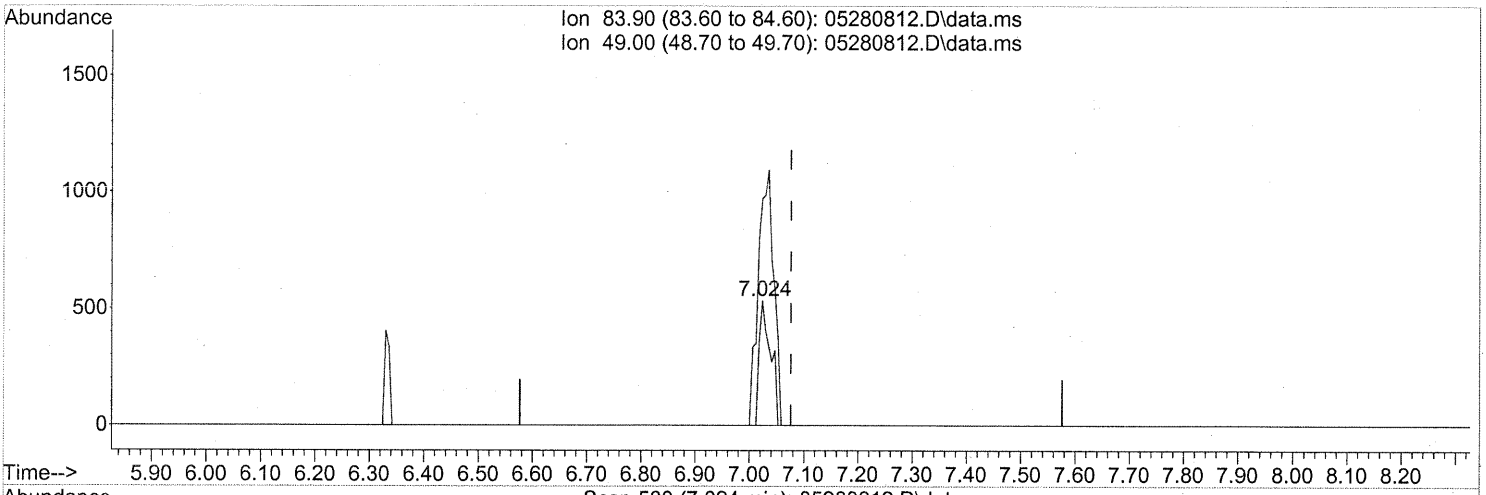
6.330min (-0.018) 0.58ng

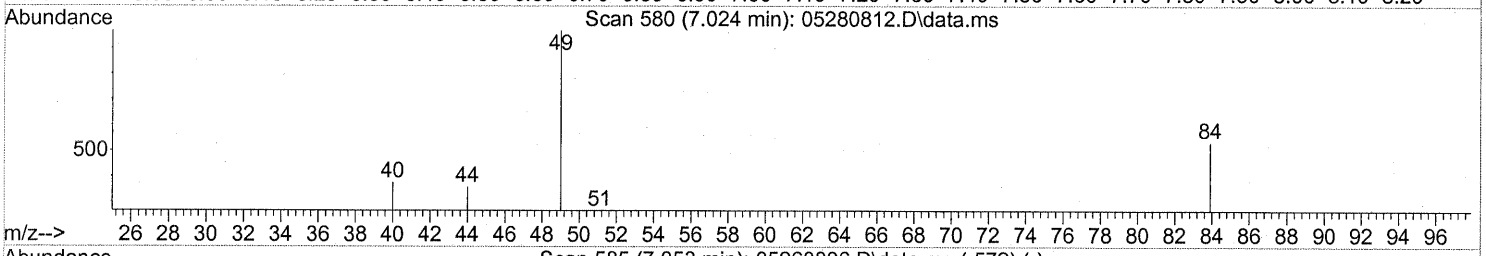
response 18729

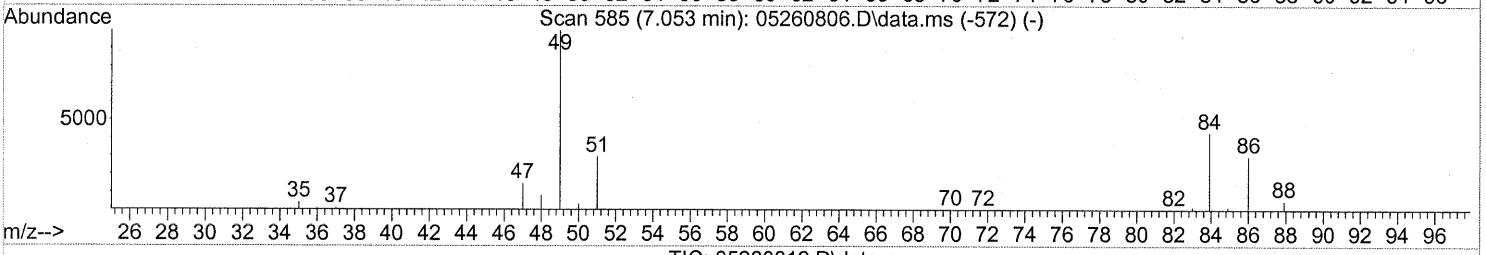
Ion	Exp%	Act%
100.90	100	100
102.90	64.90	70.41
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280812.D\data.ms

(19) Methylene Chloride (T)

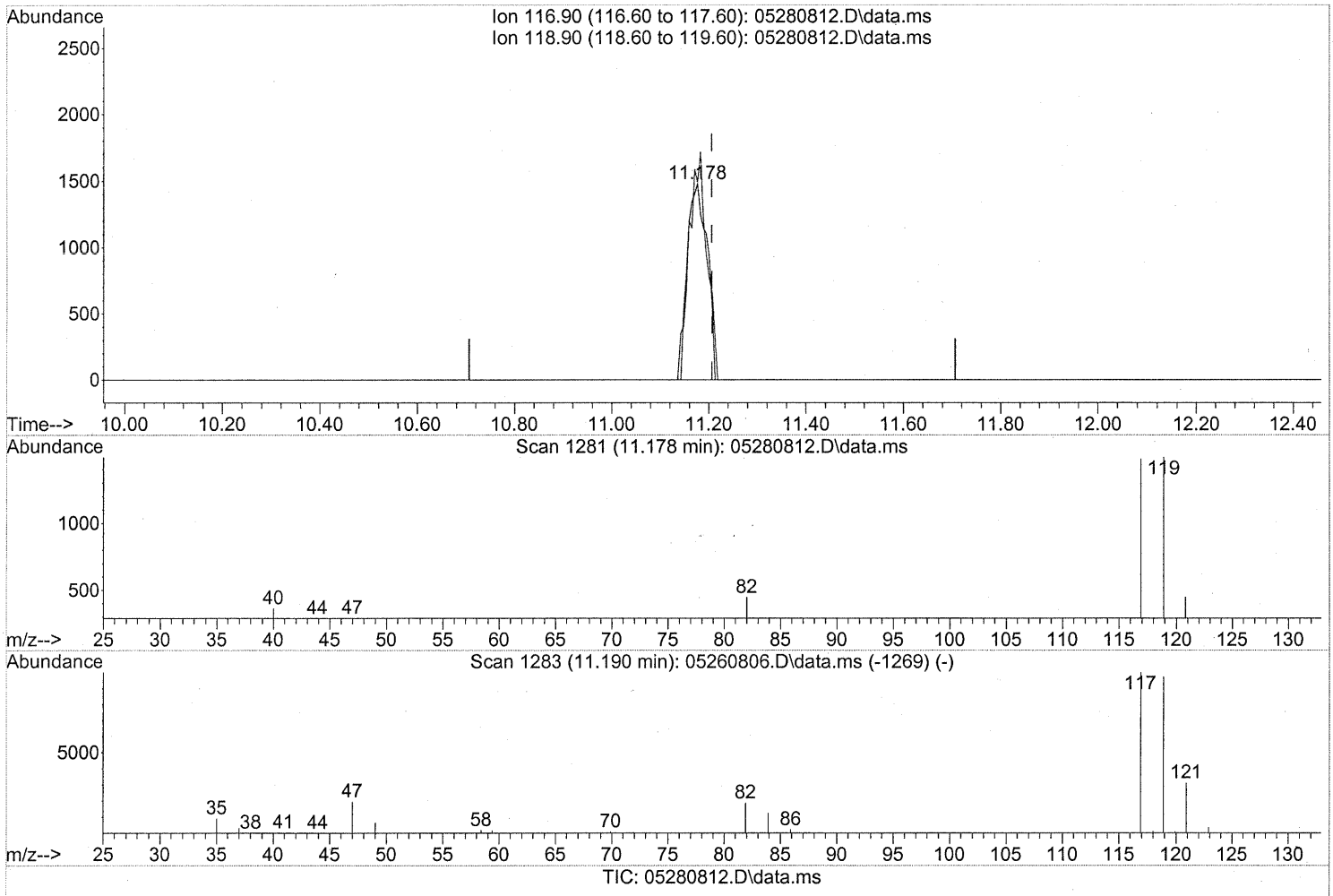
7.024min (-0.053) 0.05ng

response 791

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	277.62#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280812.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 0.16ng

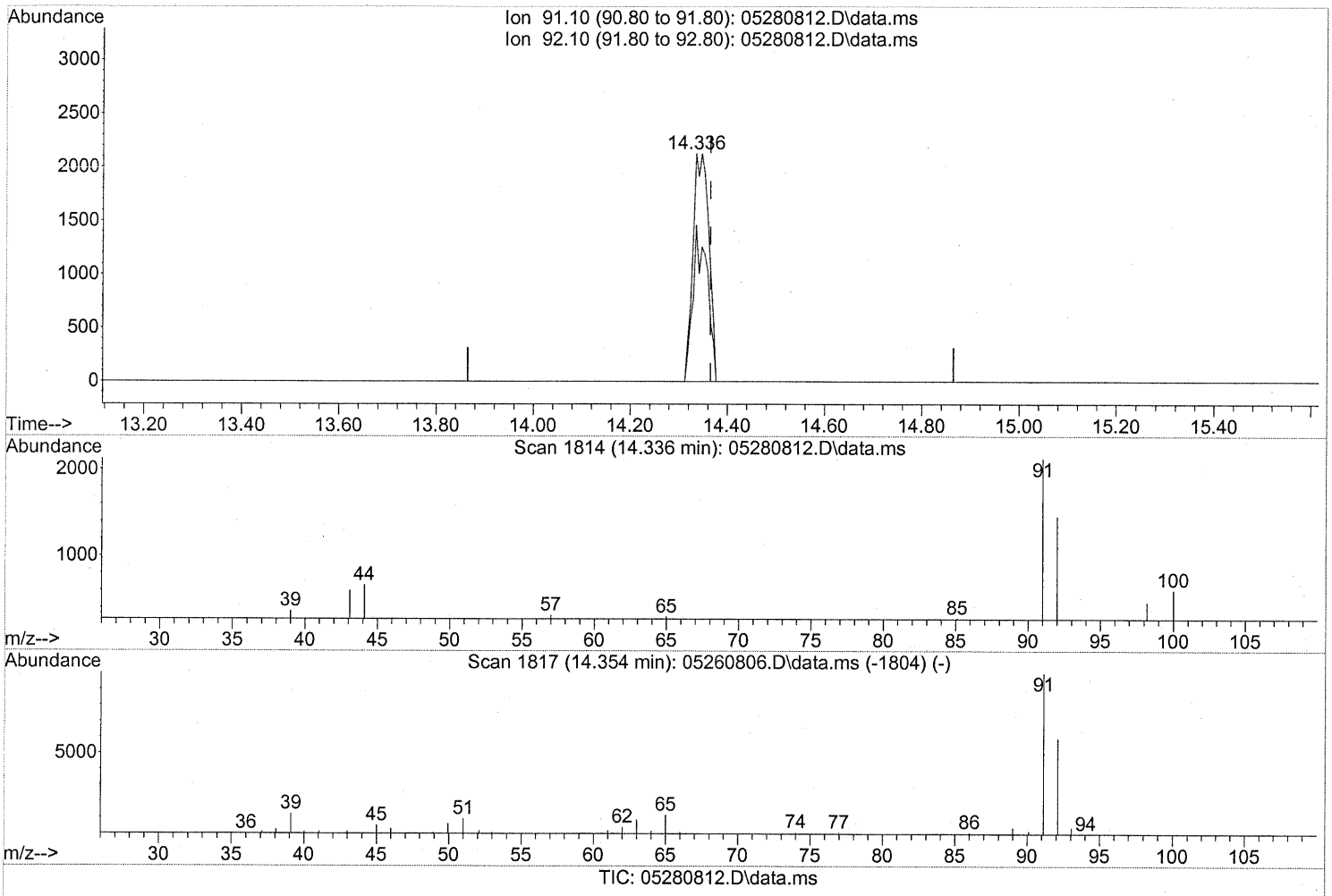
response 4164

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	106.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280812.D\data.ms

(58) Toluene (T)

14.336min (-0.030) 0.07ng

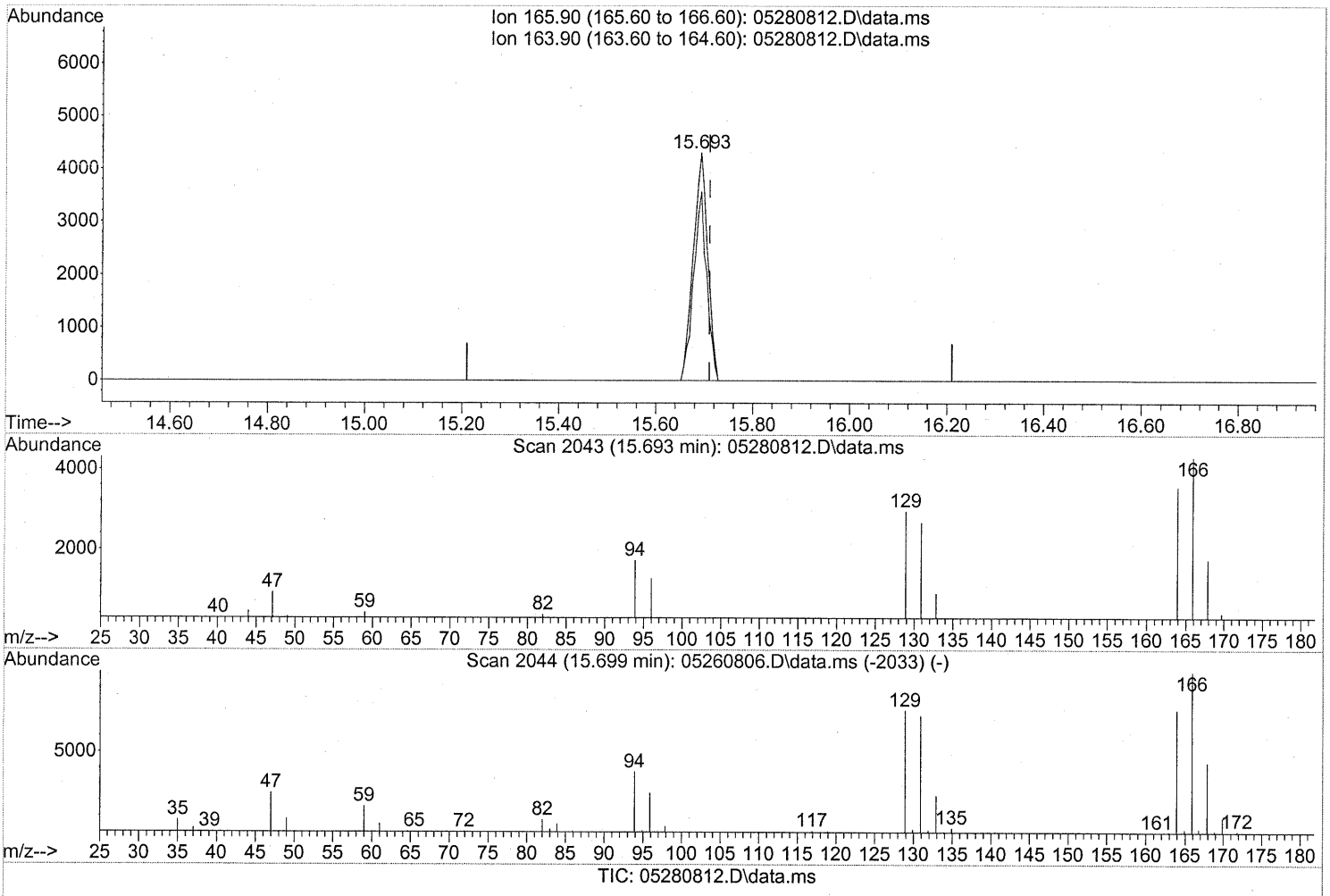
response 4855

Ion	Exp%	Act%
91.10	100	100
92.10	57.80	61.59
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:37 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280812.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 0.41ng

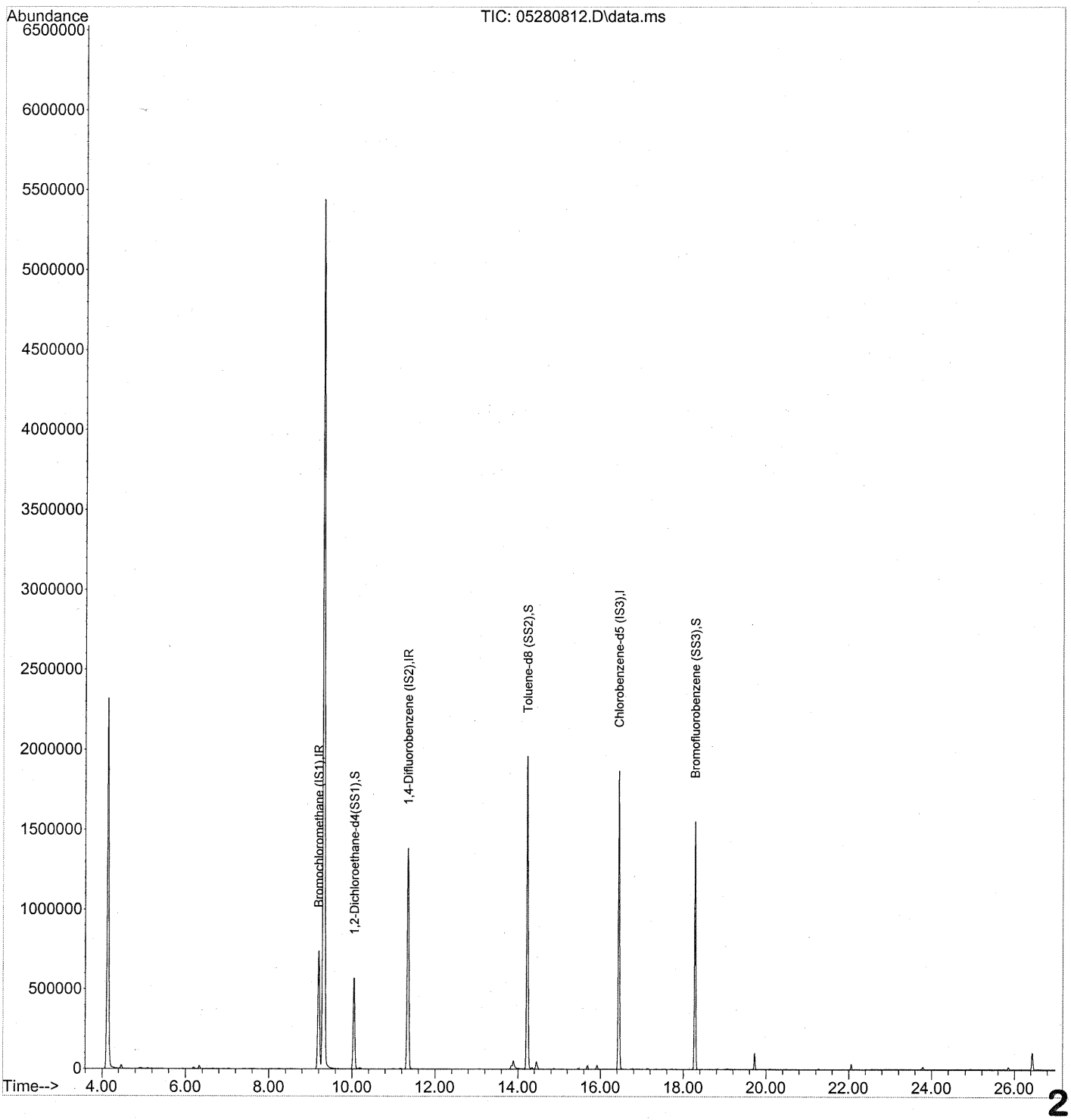
response 8940

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	76.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) RM 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:48 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280812.D
Acq On : 28 May 2008 17:12
Operator : WA
Sample : P0801507-006 (5ml) DH 6/4/08
Misc : ENSR SG60B-05D (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:48 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

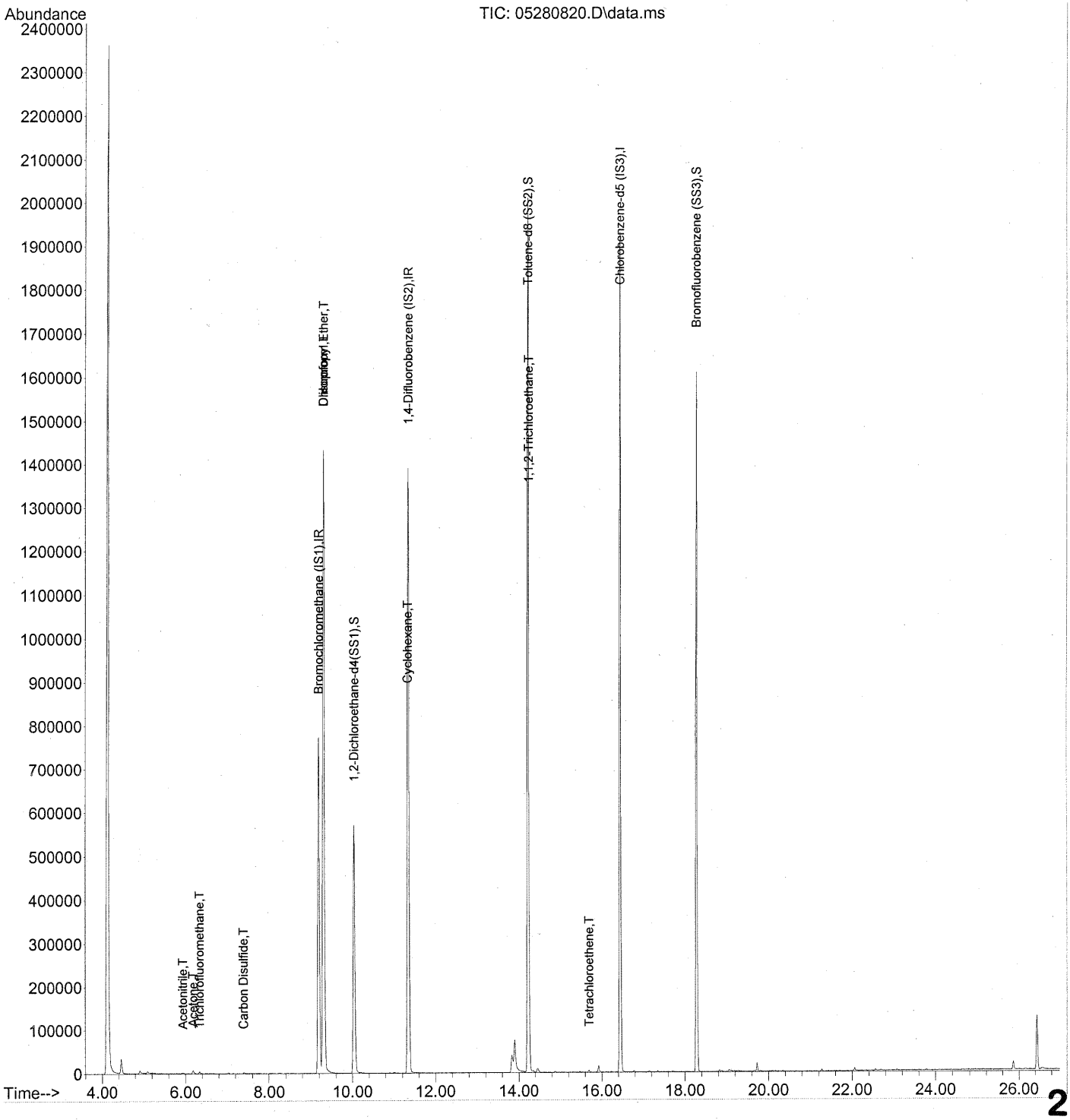
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	371218	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1523833	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	623724	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	526566	24.807	ng	-0.04
Spiked Amount 25.000			Recovery = 99.24%			
5) Toluene-d8 (SS2)	14.23	98	1548853	24.087	ng	-0.02
Spiked Amount 25.000			Recovery = 96.36%			
6) Bromofluorobenzene (SS3)	18.28	174	552392	25.838	ng	-0.01
Spiked Amount 25.000			Recovery = 103.36%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.72	119	1065	N.D.		
8) n-Butylbenzene	0.00	91	0	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 7:44 am
Operator : WA
Sample : P0801507-006 Dil (1.0ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) RM 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 08:39:57 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 7:44 am
Operator : WA
Sample : P0801507-006 Dil (1.0ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) KA 6/9/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 08:39:57 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	384373	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1575449	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	645600	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	539908	24.565	ng		-0.05
Spiked Amount 25.000			Recovery =	98.28%			✓
57) Toluene-d8 (SS2)	14.22	98	1614991	24.264	ng		-0.02
Spiked Amount 25.000			Recovery =	97.04%			✓
73) Bromofluorobenzene (SS3)	18.28	174	579696	26.196	ng		-0.01
Spiked Amount 25.000			Recovery =	104.80%			✓
Target Compounds							Qvalue
2) Propene	4.46	42	1003	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	0.00	45	0	N.D.			
11) Acetonitrile	5.94	41	3009	0.052	ng	#	1
12) Acrolein	6.06	56	564	N.D.			
13) Acetone	6.19	58	4892	0.244	ng	#	55
14) Trichlorofluoromethane	6.34	101	4925	0.146	ng		98
15) Isopropanol	6.40	45	417	N.D.			
16) Acrylonitrile	6.60	53	190	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.97	59	103	N.D.			
19) Methylene Chloride	7.03	84	538	N.D.			
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3849	0.062	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	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	9.31	87	157034	11.353	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 7:44 am
Operator : WA
Sample : P0801507-006 Dil (1.0ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) DM 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 08:39:57 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	1443078	63.622	ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	0.00	56	0	N.D.			
41) Benzene	11.01	78	2471	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	11.33	84	2126	0.082	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	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	411	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	14.24	97	135873	8.410	ng	#	6
58) Toluene	14.34	91	2070	N.D.			
59) 2-Hexanone	14.59	43	459	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	1119	N.D.			
63) n-Octane	15.47	57	313	N.D.			
64) Tetrachloroethene	15.69	166	1967	0.088	ng		99
65) Chlorobenzene	16.50	112	238	N.D.			
66) Ethylbenzene	16.93	91	800	N.D.			
67) m- & p-Xylene	17.14	91	2511	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.58	104	514	N.D.			
70) o-Xylene	17.73	91	905	N.D.			
71) n-Nonane	17.96	43	195	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.45	105	509	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	19.08	91	762	N.D.			
77) 3-Ethyltoluene	19.20	105	1177	N.D.			
78) 4-Ethyltoluene	19.24	105	889	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	639	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 7:44 am
Operator : WA
Sample : P0801507-006 Dil (1.0ml)
Misc : ENSR SG60B-05D (-3.7, 3.5) DA 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 08:39:57 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

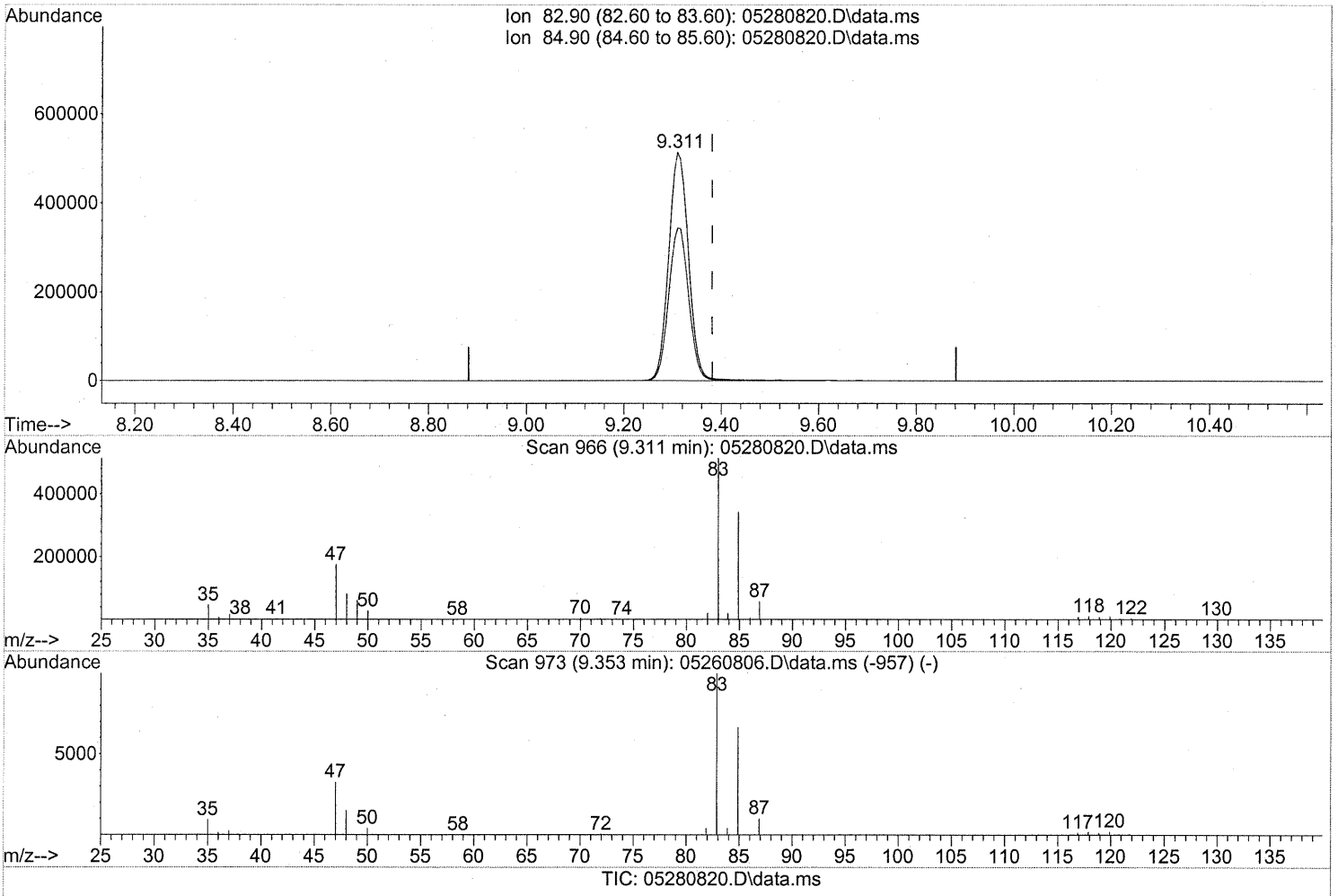
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.56	105	665	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	888	N.D.	
83) n-Decane	19.92	57	206	N.D.	
84) Benzyl Chloride	20.00	91	664	N.D.	
85) 1,3-Dichlorobenzene	20.02	146	608	N.D.	
86) 1,4-Dichlorobenzene	20.11	146	1055	N.D.	
87) sec-Butylbenzene	20.16	105	523	N.D.	
88) p-Isopropyltoluene	20.33	119	405	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	439	N.D.	
90) 1,2-Dichlorobenzene	20.51	146	223	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	21.44	57	372	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.70	128	3101	N.D.	
96) n-Dodecane	22.66	57	463	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:\MS16\DATA\2008_05\28\
Data File : 05280820.D
Acq On : 29 May 2008 7:44
Operator : WA
Sample : P0801507-006 Dil (1.0ml)
Misc : ENSR SG60B-05 (-3.7, 3.5)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 08:39:57 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280820.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 63.62ng

response 1443078

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.78
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	57	5.7	ND	11	1.1	
74-87-3	Chloromethane	ND	11	5.7	ND	5.5	2.7	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	57	5.7	ND	8.1	0.81	
75-01-4	Vinyl Chloride	ND	11	5.7	ND	4.4	2.2	
74-83-9	Bromomethane	ND	11	5.7	ND	2.9	1.5	
75-00-3	Chloroethane	ND	11	5.7	ND	4.3	2.1	
64-17-5	Ethanol	ND	570	5.7	ND	300	3.0	
67-64-1	**Acetone**	**61**	570	8.3	**26**	240	3.5	**J, B**
75-69-4	**Trichlorofluoromethane**	**55**	11	5.7	**9.8**	2.0	1.0	
107-13-1	Acrylonitrile	ND	57	7.9	ND	26	3.7	
75-35-4	1,1-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	57	8.4	ND	19	2.8	
75-09-2	**Methylene Chloride**	**5.8**	57	5.7	**1.7**	16	1.6	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	11	5.7	ND	3.6	1.8	
76-13-1	Trichlorotrifluoroethane	ND	11	6.3	ND	1.5	0.83	
75-15-0	Carbon Disulfide	ND	57	14	ND	18	4.4	
156-60-5	trans-1,2-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
75-34-3	**1,1-Dichloroethane**	**14**	11	5.7	**3.5**	2.8	1.4	
1634-04-4	Methyl tert-Butyl Ether	ND	11	5.7	ND	3.1	1.6	
108-05-4	Vinyl Acetate	ND	570	18	ND	160	5.2	
78-93-3	2-Butanone (MEK)	ND	57	5.7	ND	19	1.9	
156-59-2	cis-1,2-Dichloroethene	ND	11	5.7	ND	2.9	1.4	
108-20-3	Diisopropyl Ether	ND	57	6.7	ND	14	1.6	
67-66-3	**Chloroform**	**51,000**	11	6.7	**10,000**	2.3	1.4	**B**

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: CH Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	57	5.8	ND	14	1.4	
107-06-2	**1,2-Dichloroethane**	**6.7**	11	5.7	**1.7**	2.8	1.4	**J**
71-55-6	1,1,1-Trichloroethane	ND	11	5.7	ND	2.1	1.0	
71-43-2	**Benzene**	**7.6**	11	5.7	**2.4**	3.5	1.8	**J**
56-23-5	**Carbon Tetrachloride**	**75**	11	5.7	**12**	1.8	0.90	
994-05-8	tert-Amyl Methyl Ether	ND	57	5.7	ND	14	1.4	
78-87-5	1,2-Dichloropropane	ND	11	5.7	ND	2.5	1.2	
75-27-4	Bromodichloromethane	ND	11	5.7	ND	1.7	0.85	
79-01-6	**Trichloroethene**	**7.8**	11	5.7	**1.5**	2.1	1.1	**J**
123-91-1	1,4-Dioxane	ND	57	6.9	ND	16	1.9	
80-62-6	Methyl Methacrylate	ND	57	8.5	ND	14	2.1	
142-82-5	n-Heptane	ND	57	7.3	ND	14	1.8	
10061-01-5	cis-1,3-Dichloropropene	ND	57	5.9	ND	12	1.3	
108-10-1	4-Methyl-2-pentanone	ND	57	6.3	ND	14	1.5	
10061-02-6	trans-1,3-Dichloropropene	ND	57	7.1	ND	12	1.6	
79-00-5	1,1,2-Trichloroethane	ND	11	5.7	ND	2.1	1.0	
108-88-3	**Toluene**	**23**	57	5.7	**6.1**	15	1.5	**J**
591-78-6	2-Hexanone	ND	57	8.6	ND	14	2.1	
124-48-1	Dibromochloromethane	ND	11	7.7	ND	1.3	0.90	
106-93-4	1,2-Dibromoethane	ND	11	6.1	ND	1.5	0.80	
111-65-9	n-Octane	ND	57	5.7	ND	12	1.2	
127-18-4	**Tetrachloroethene**	**57**	11	5.7	**8.4**	1.7	0.84	
108-90-7	Chlorobenzene	ND	11	5.8	ND	2.5	1.3	

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

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG58B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-007

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00664

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/29/08
Volume(s) Analyzed: 0.015 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.9 Final Pressure (psig): 3.7

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	57	7.0	ND	13	1.6	
179601-23-1	**m,p-Xylenes**	**29**	57	15	**6.6**	13	3.4	**J**
75-25-2	Bromoform	ND	57	8.6	ND	5.5	0.83	
100-42-5	Styrene	ND	57	8.6	ND	13	2.0	
95-47-6	**o-Xylene**	**10**	57	7.1	**2.3**	13	1.6	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	11	7.3	ND	1.7	1.1	
98-82-8	Cumene	ND	57	6.3	ND	12	1.3	
103-65-1	n-Propylbenzene	ND	57	5.9	ND	12	1.2	
622-96-8	4-Ethyltoluene	ND	57	6.5	ND	12	1.3	
108-67-8	1,3,5-Trimethylbenzene	ND	57	6.8	ND	12	1.4	
98-83-9	alpha-Methylstyrene	ND	57	8.3	ND	12	1.7	
95-63-6	1,2,4-Trimethylbenzene	ND	57	7.8	ND	12	1.6	
100-44-7	Benzyl Chloride	ND	11	9.7	ND	2.2	1.9	
541-73-1	1,3-Dichlorobenzene	ND	11	7.0	ND	1.9	1.2	
106-46-7	1,4-Dichlorobenzene	ND	11	6.3	ND	1.9	1.1	
135-98-8	sec-Butylbenzene	ND	57	6.6	ND	10	1.2	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	57	7.4	ND	10	1.3	
95-50-1	1,2-Dichlorobenzene	ND	11	7.5	ND	1.9	1.2	
96-12-8	1,2-Dibromo-3-chloropropane	ND	57	8.6	ND	5.9	0.89	
120-82-1	1,2,4-Trichlorobenzene	ND	11	8.6	ND	1.5	1.2	
91-20-3	Naphthalene	ND	23	8.4	ND	4.3	1.6	
87-68-3	Hexachlorobutadiene	ND	11	10	ND	1.1	0.96	
98-06-6	tert-Butylbenzene	ND	23	5.7	ND	4.1	1.0	
104-51-8	n-Butylbenzene	ND	23	5.7	ND	4.1	1.0	

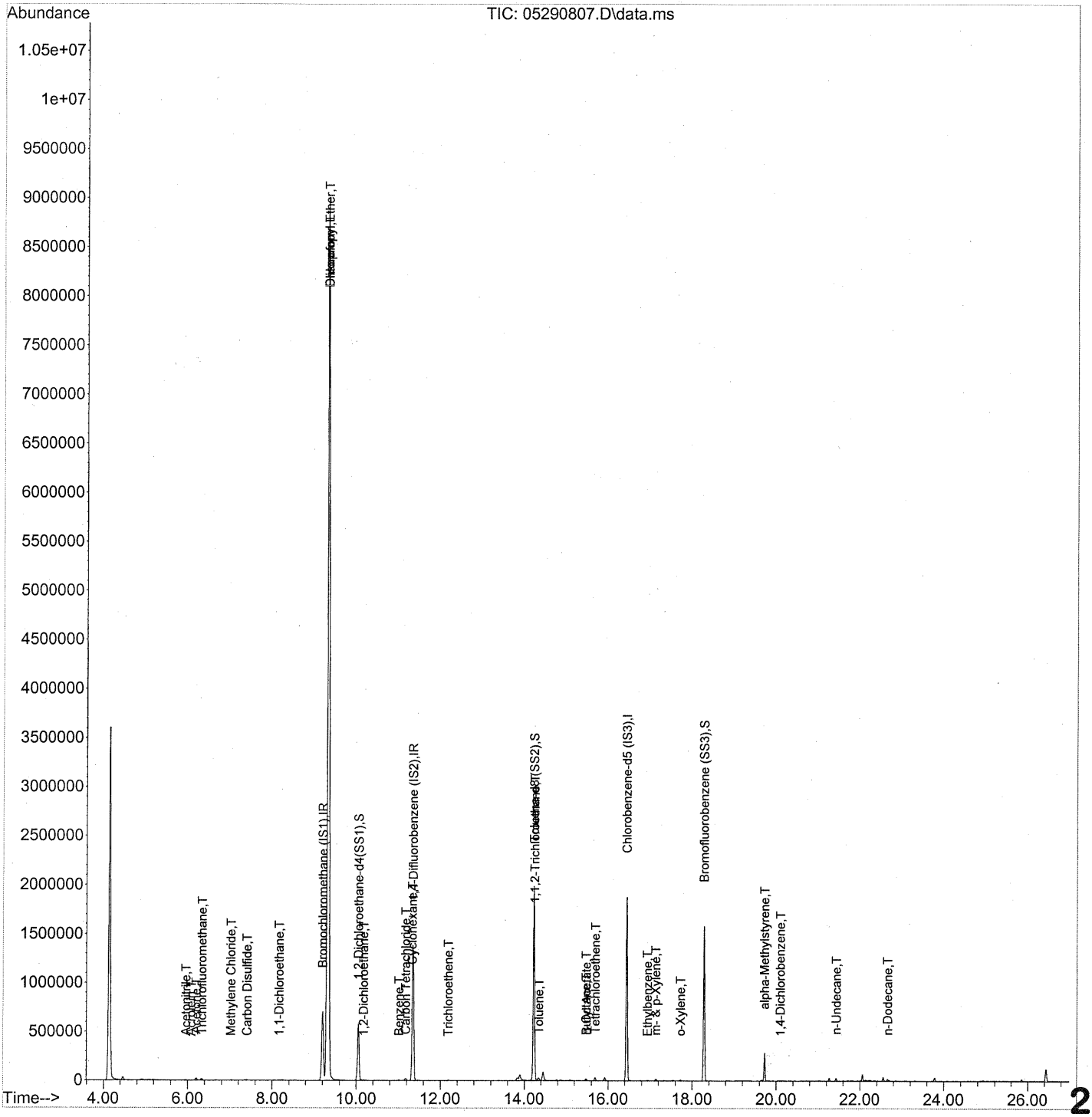
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CH Date: 6/5/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	372594	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.35	114	1531812	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	629311	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	527664	24.767	ng		-0.04
Spiked Amount 25.000			Recovery =	99.08%			
57) Toluene-d8 (SS2)	14.23	98	1555150	23.970	ng		-0.02
Spiked Amount 25.000			Recovery =	95.88%			
73) Bromofluorobenzene (SS3)	18.28	174	565867	26.233	ng		-0.01
Spiked Amount 25.000			Recovery =	104.92%			
Target Compounds							Qvalue
2) Propene	4.46	42	1262	N.D.			
3) Dichlorodifluoromethane	4.56	85	629	N.D.			
4) Chloromethane	4.75	50	103	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	5.71	45	114	N.D.			
11) Acetonitrile	5.96	41	3460	0.061	ng	#	24
12) Acrolein	6.08	56	929	0.066	ng	#	58
13) Acetone	6.20	58	10556	0.542	ng	#	69
14) Trichlorofluoromethane	6.34	101	15829	0.485	ng		98
15) Isopropanol	6.40	45	641	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.99	59	94	N.D.			
19) Methylene Chloride	7.02	84	772	0.051	ng	#	1
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3375	~~0.056~~	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	3992	0.125	ng		85
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.54	72	99	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.33	87	1084879	~~80.916~~	ng	NR#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.25	57	467	N.D.			

266

6/14/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.33	83	10117291	~~460.149 ng~~		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	10.18	62	1489	0.059 ng	#	55
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.81	56	94	N.D.		
41) Benzene	11.02	78	4335	0.067 ng		83
42) Carbon Tetrachloride	11.18	117	17576	0.663 ng		97
43) Cyclohexane	11.33	84	1998	0.079 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	12.13	83	578	N.D.		
47) Trichloroethene	12.19	130	1383	0.069 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.24	57	903	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	14.24	97	132930	~~8.462 ng~~ DR	#	7
58) Toluene	14.35	91	14905	0.203 ng		97
59) 2-Hexanone	14.58	43	753	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.48	43	10952	0.157 ng	#	71
63) n-Octane	15.47	57	3850	~~0.173 ng~~ DR	#	66
64) Tetrachloroethene	15.69	166	10954	0.503 ng		90
65) Chlorobenzene	16.50	112	96	N.D.		
66) Ethylbenzene	16.94	91	4375	~~0.052 ng~~		91
67) m- & p-Xylene	17.14	91	13951	0.252 ng		99
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	0.00	104	0	N.D.		
70) o-Xylene	17.73	91	5322	0.090 ng		96
71) n-Nonane	17.96	43	567	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.28	105	756	N.D.		
75) alpha-Pinene	0.00	93	0	N.D. NOT		
76) n-Propylbenzene	19.06	91	461	N.D.		
77) 3-Ethyltoluene	19.18	105	2331	N.D.		
78) 4-Ethyltoluene	19.24	105	1184	N.D.		
79) 1,3,5-Trimethylbenzene	19.34	105	1184	N.D.		

6/4/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

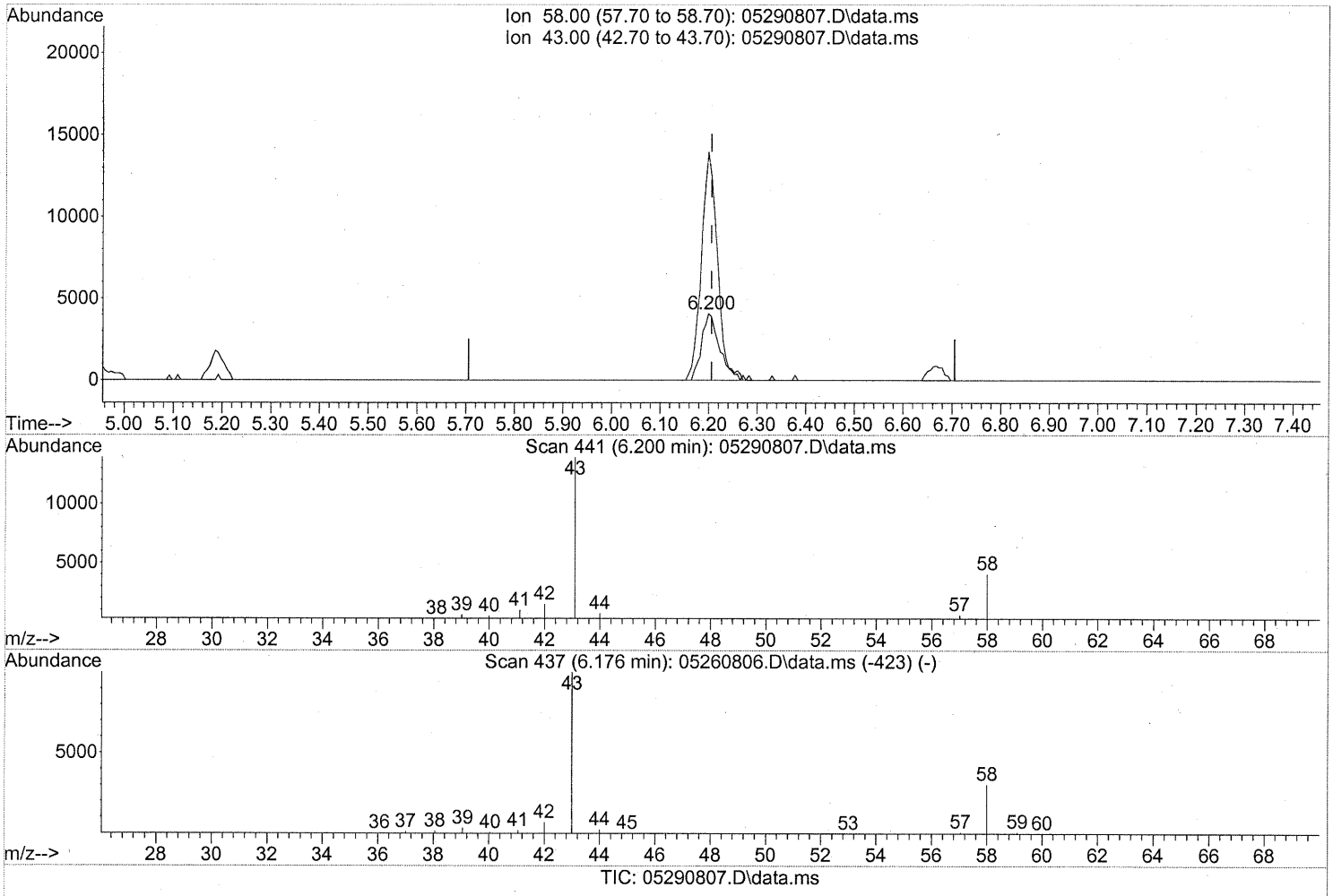
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	2353	~~0.055 ng~~	#	16
81) 2-Ethyltoluene	19.56	105	817	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	2354	N.D.		
83) n-Decane	19.92	57	1602	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.10	146	2408	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	2408	~~0.051 ng~~		95
87) sec-Butylbenzene	20.35	105	876	N.D.		
88) p-Isopropyltoluene	20.34	119	337	N.D.		
89) 1,2,3-Trimethylbenzene	20.35	105	876	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	21.44	57	11516	~~0.202 ng~~		75
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.70	128	5268	N.D.		
96) n-Dodecane	22.66	57	7780	0.140 ng	#	75
97) Hexachloro-1,3-butadiene	23.10	225	458	N.D.		

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(13) Acetone (T)

6.200min (-0.006) 0.54ng

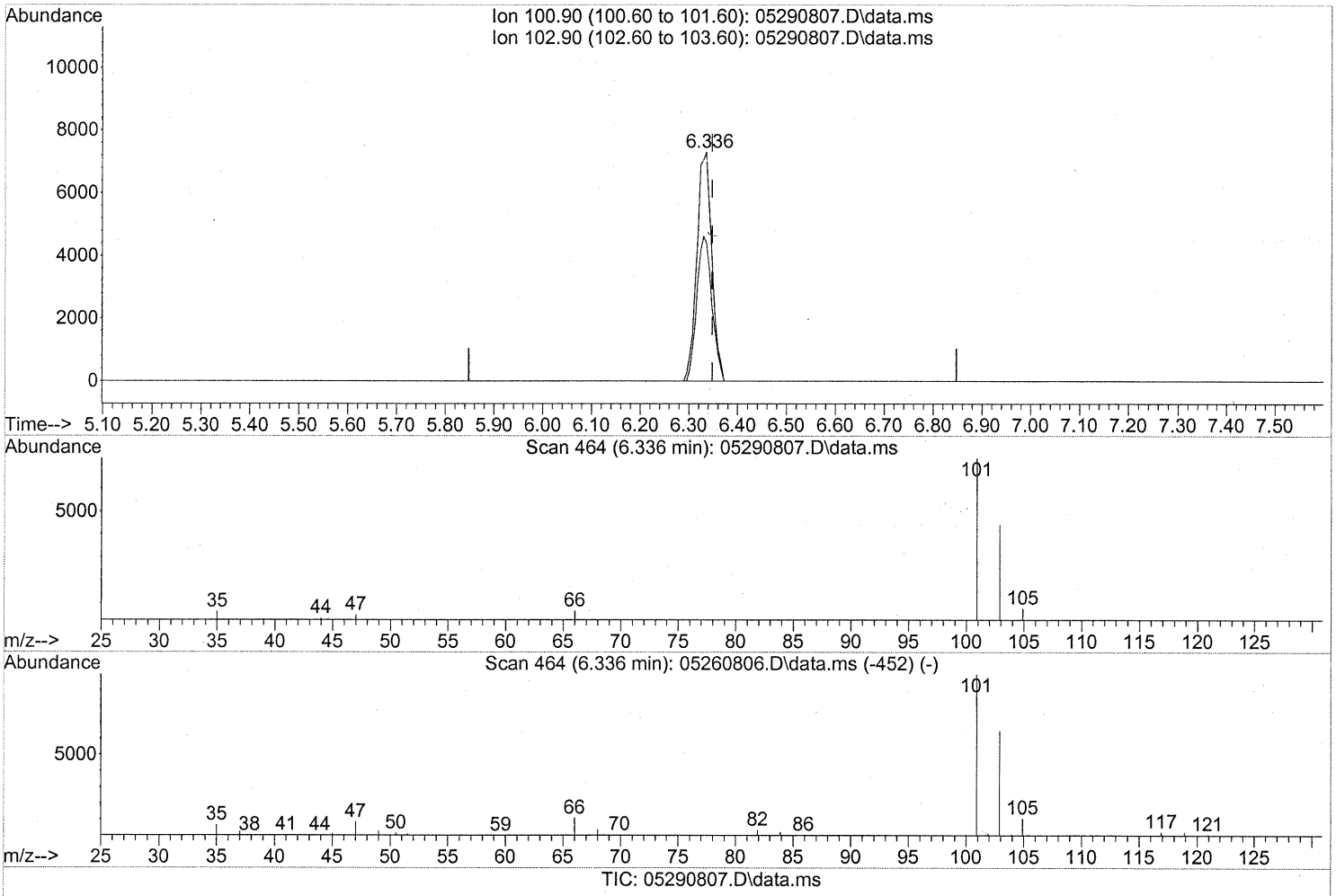
response 10556

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	298.08#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(14) Trichlorofluoromethane (T)

6.336min (-0.012) 0.48ng

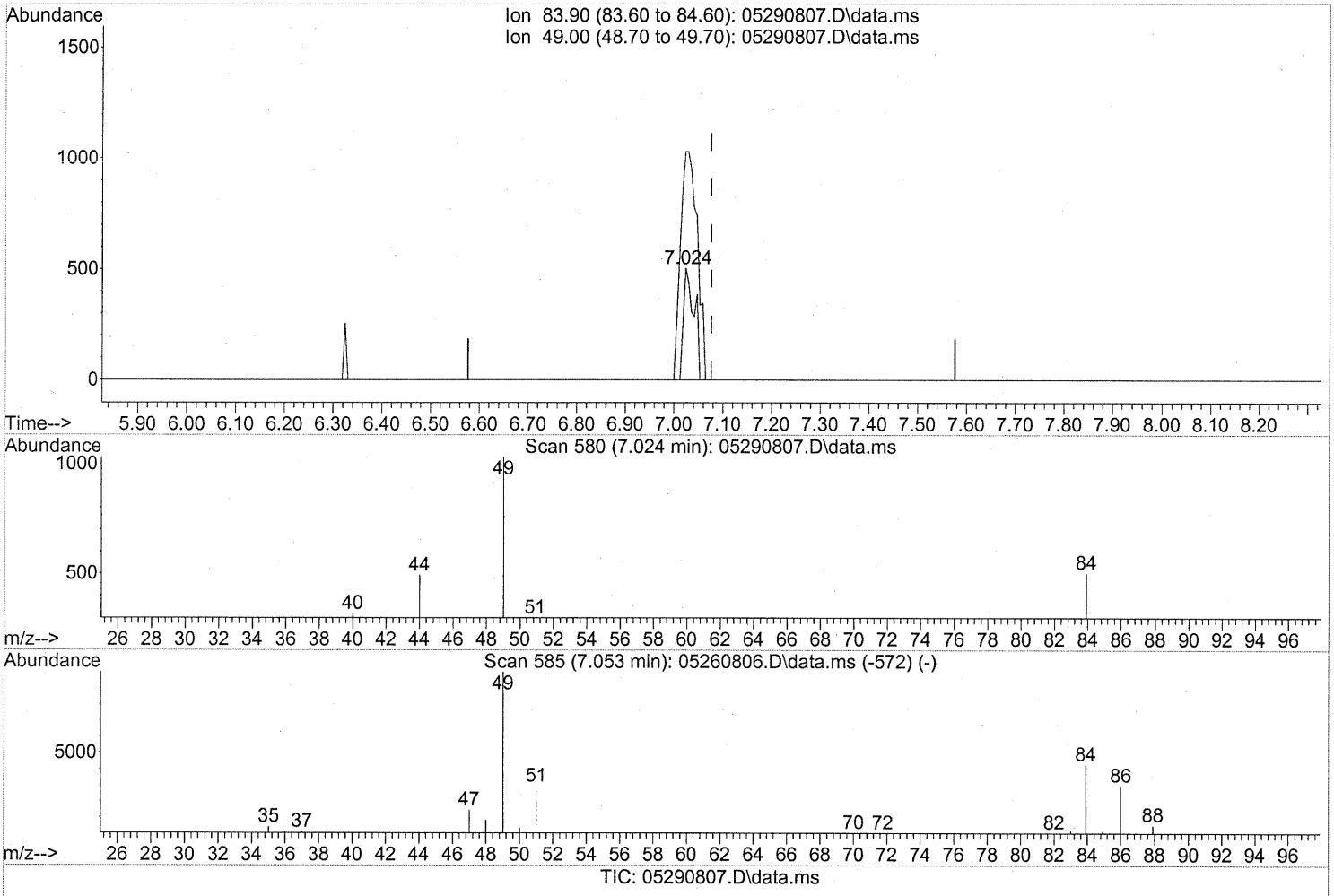
response 15829

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	63.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(19) Methylene Chloride (T)

7.024min (-0.053) 0.05ng

response 772

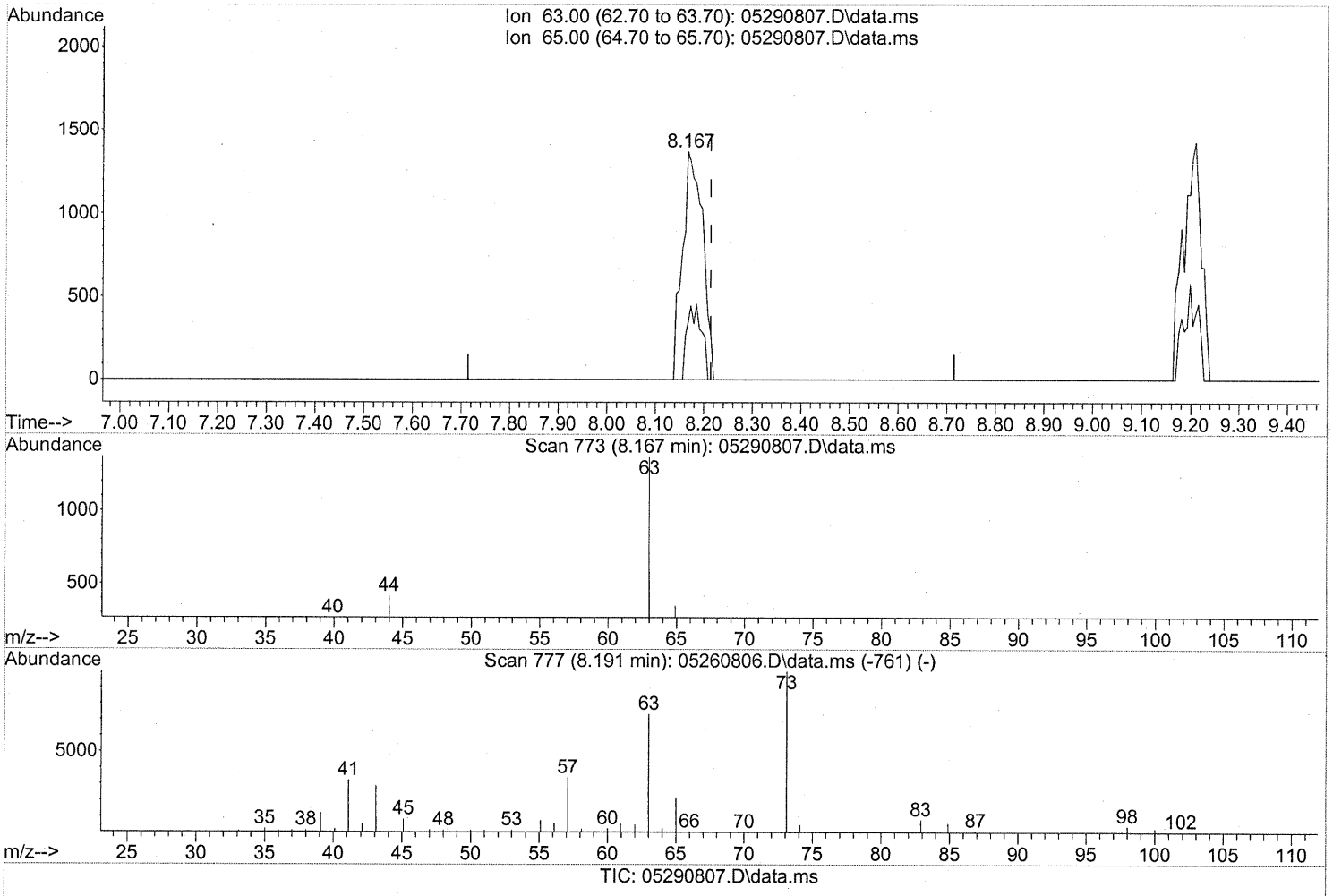
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	321.11#
0.00	0.00	0.00
0.00	0.00	0.00

271

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(24) 1,1-Dichloroethane (T)

8.167min (-0.047) 0.13ng

response 3992

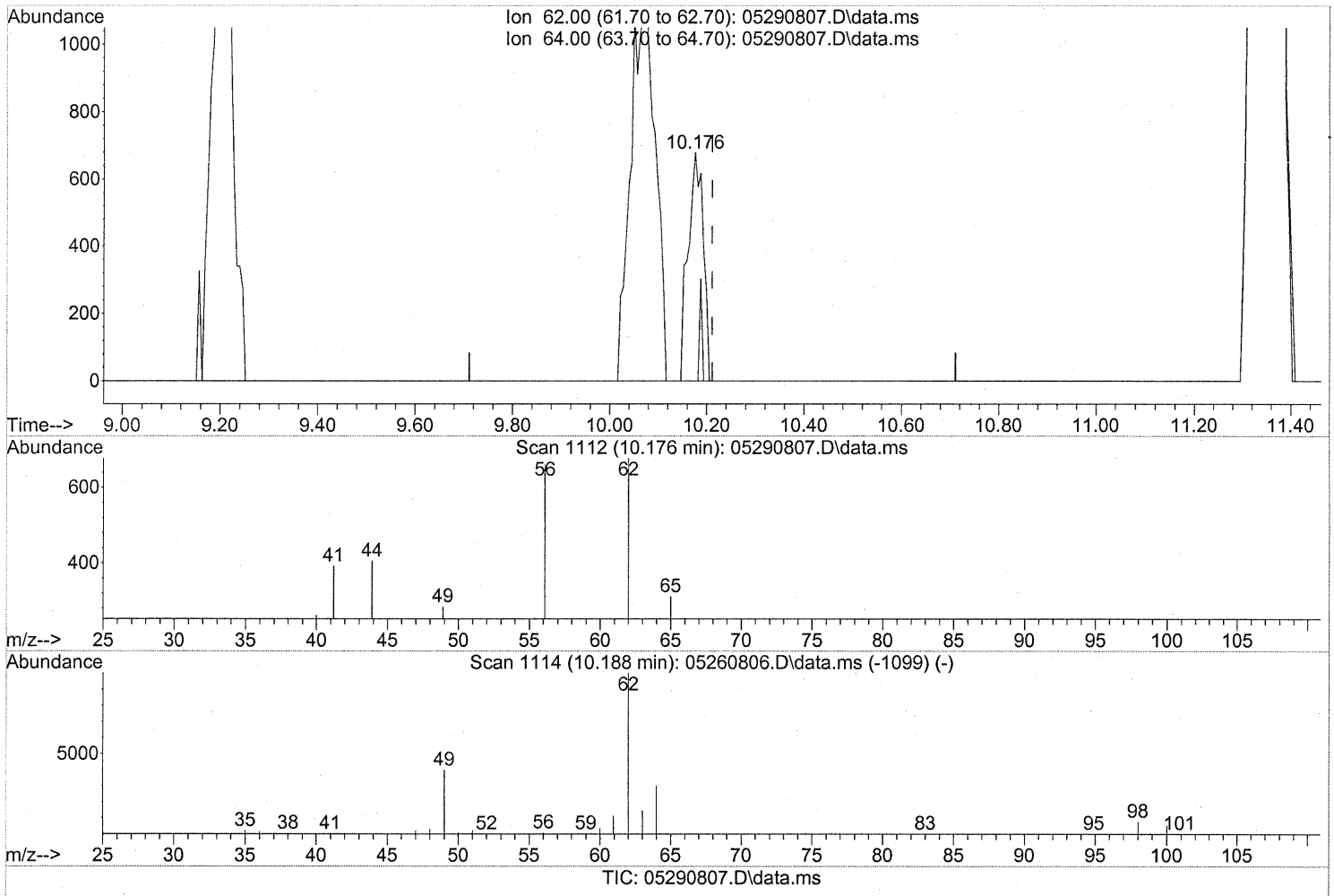
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	23.90
0.00	0.00	0.00
0.00	0.00	0.00

272

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(36) 1,2-Dichloroethane (T)

10.176min (-0.036) 0.06ng

response 1489

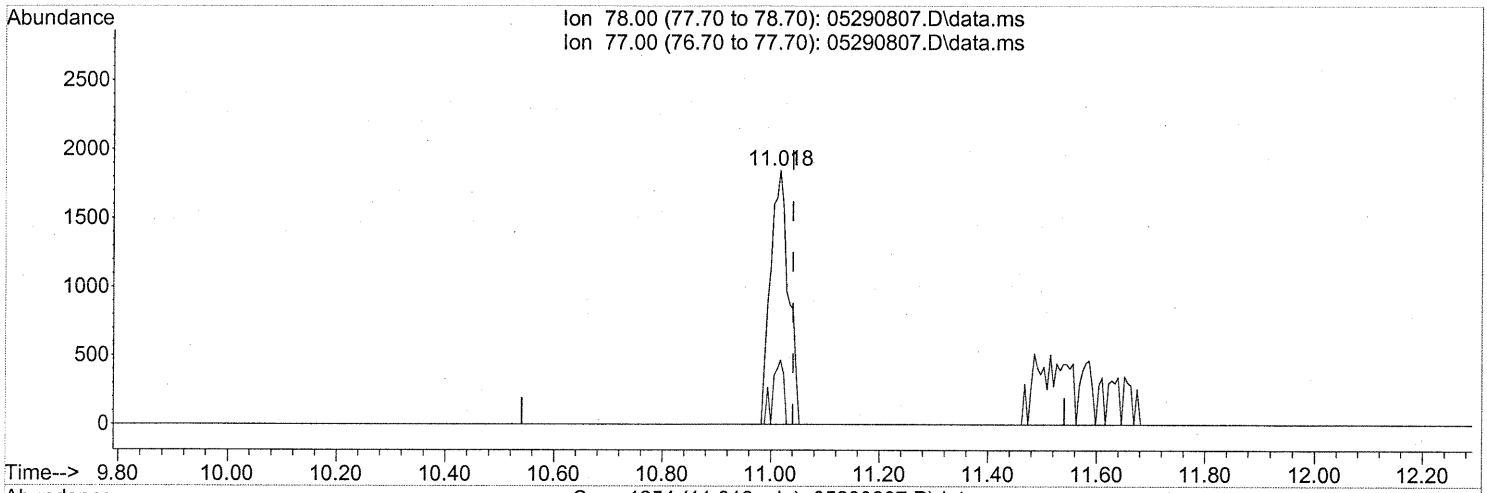
Ion	Exp%	Act%
62.00	100	100
64.00	32.50	7.19#
0.00	0.00	0.00
0.00	0.00	0.00

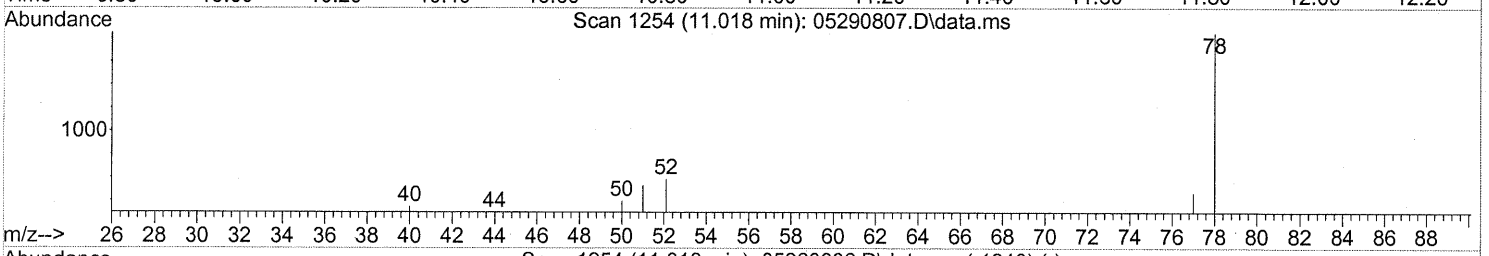
273

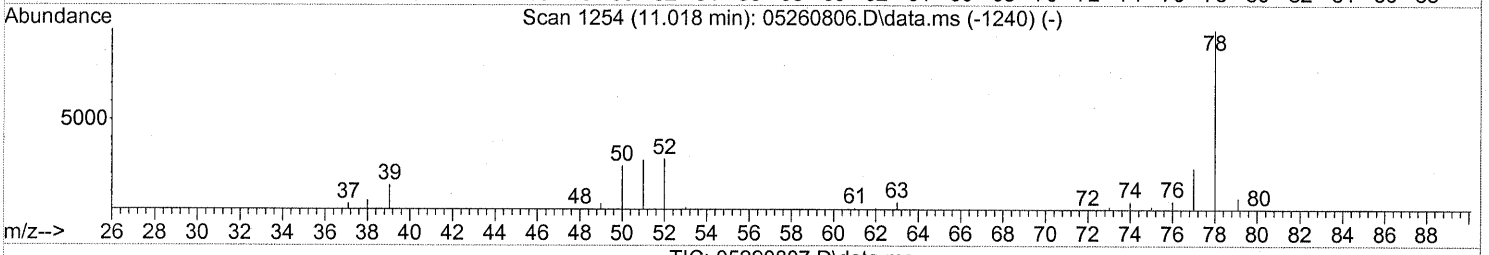
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05290807.D\data.ms

(41) Benzene (T)

11.018min (-0.024) 0.07ng

response 4335

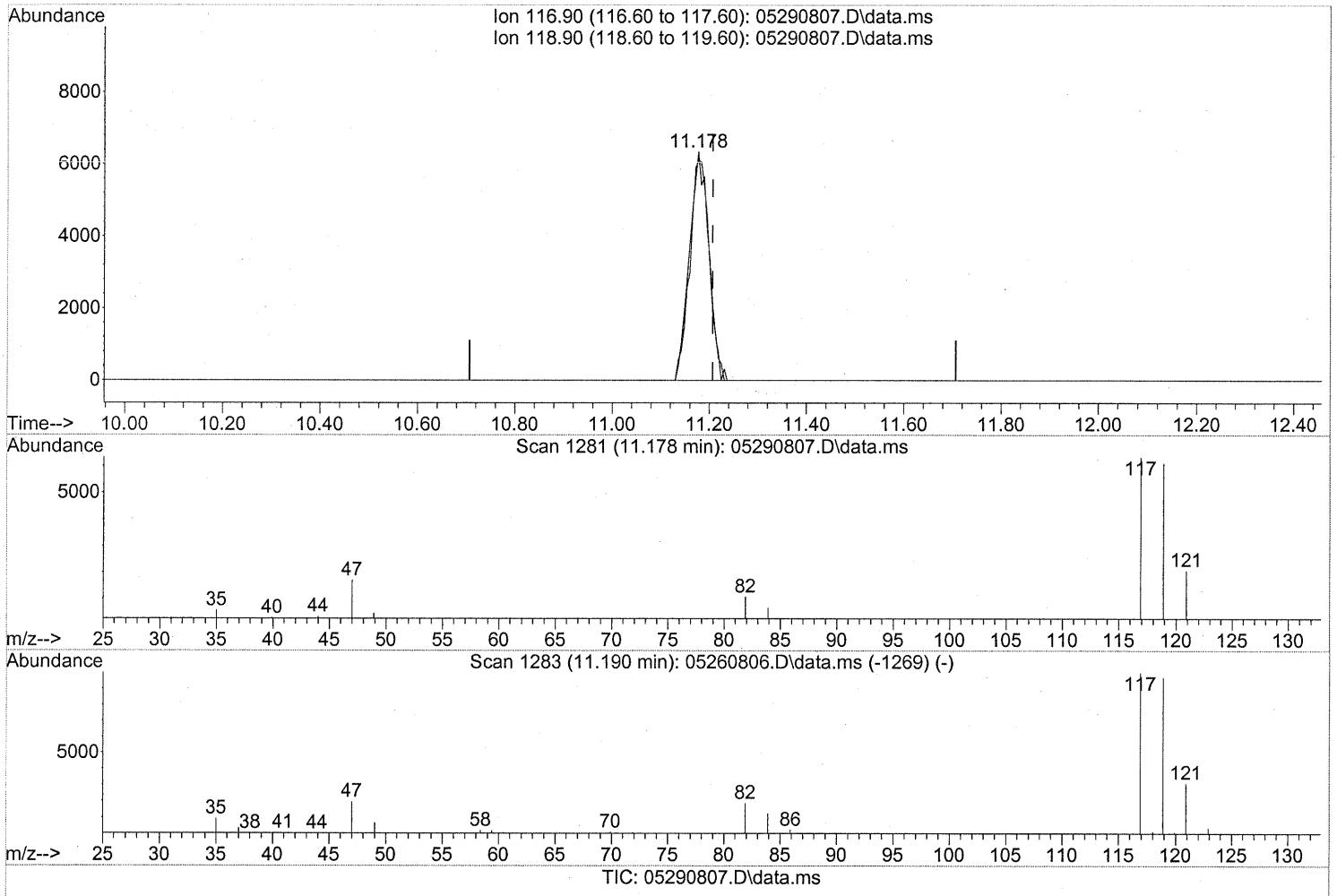
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	15.27
0.00	0.00	0.00
0.00	0.00	0.00

274

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 0.66ng

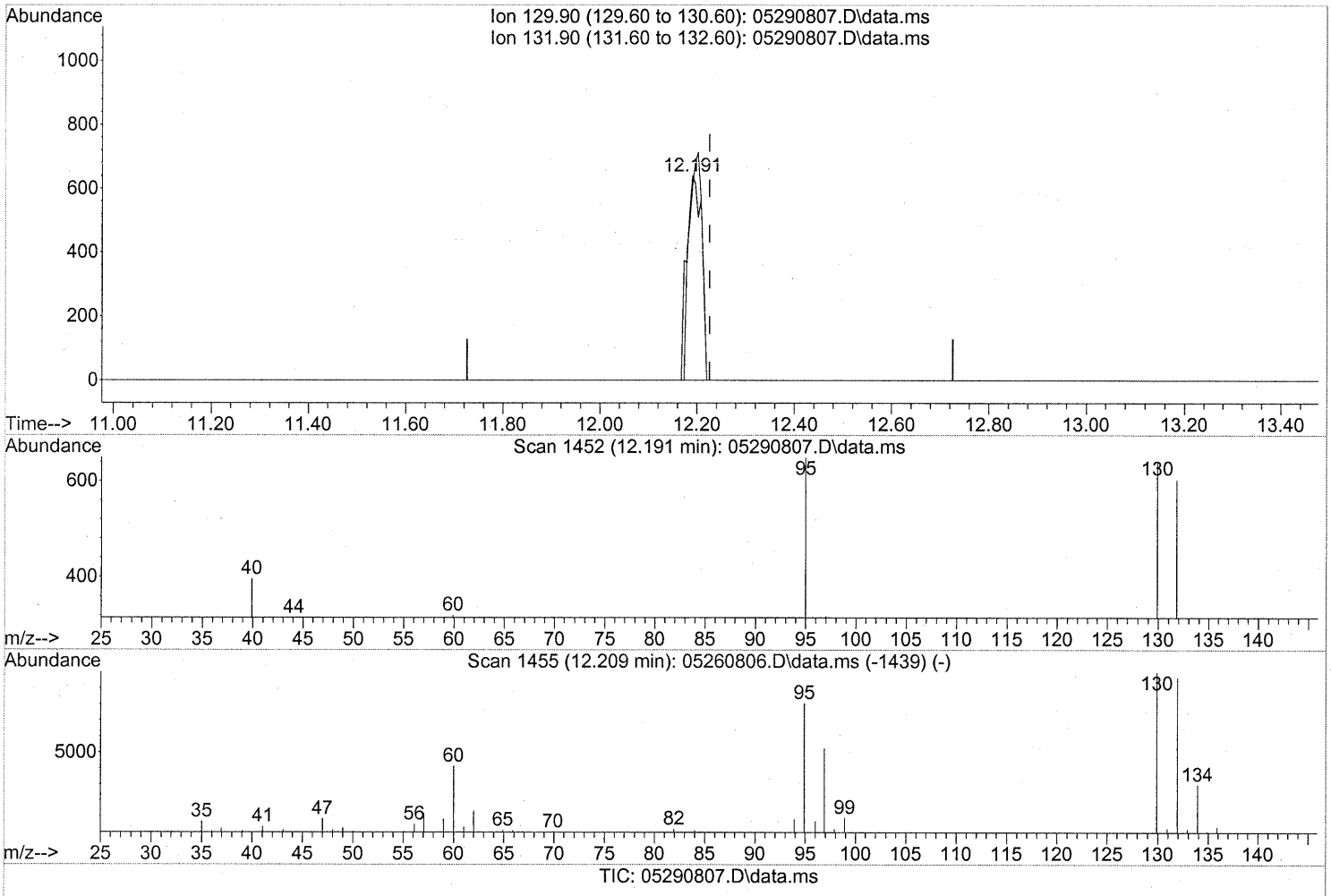
response 17576

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	97.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.191min (-0.036) 0.07ng

response 1383

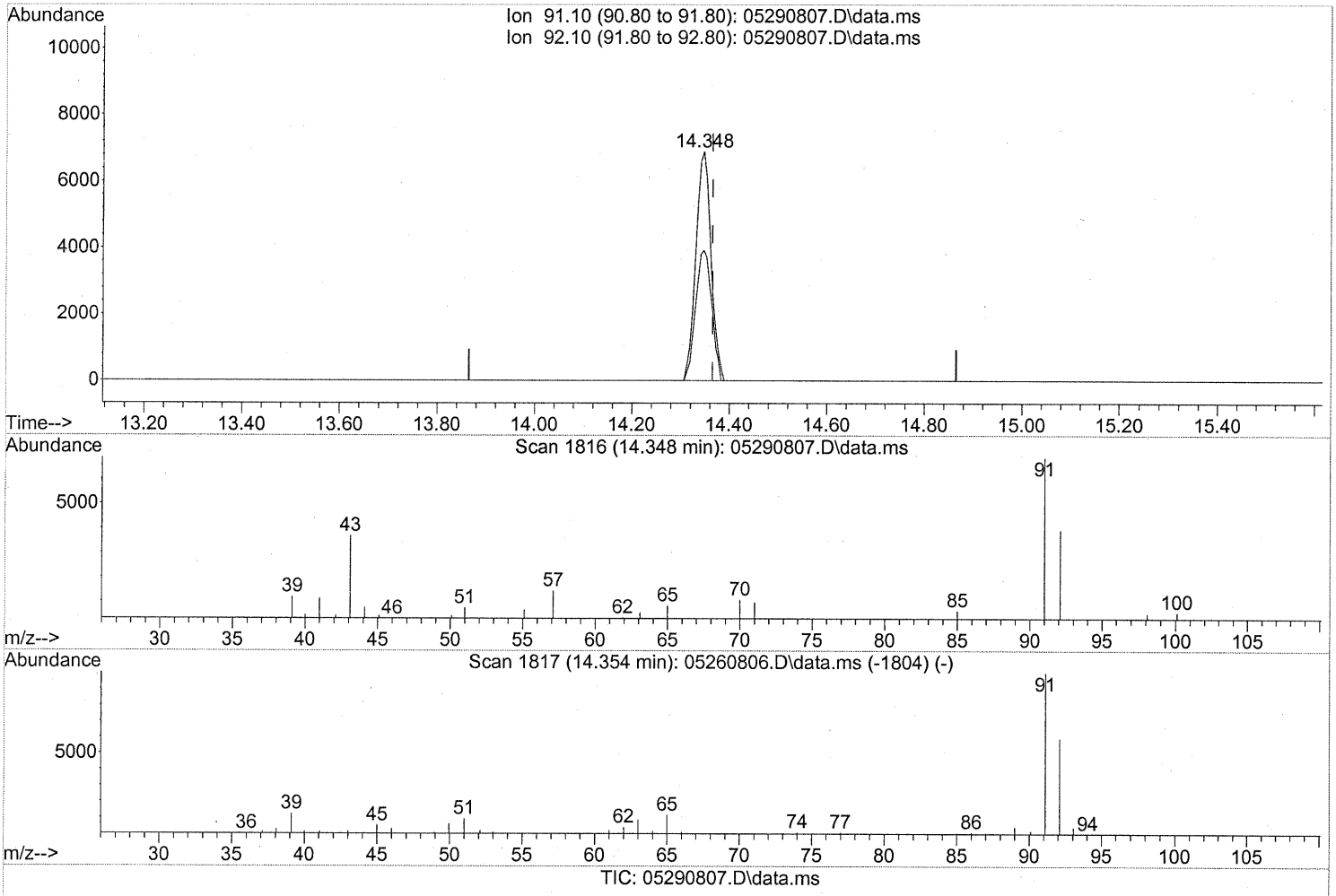
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	95.81
0.00	0.00	0.00
0.00	0.00	0.00

276

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 0.20ng

response 14905

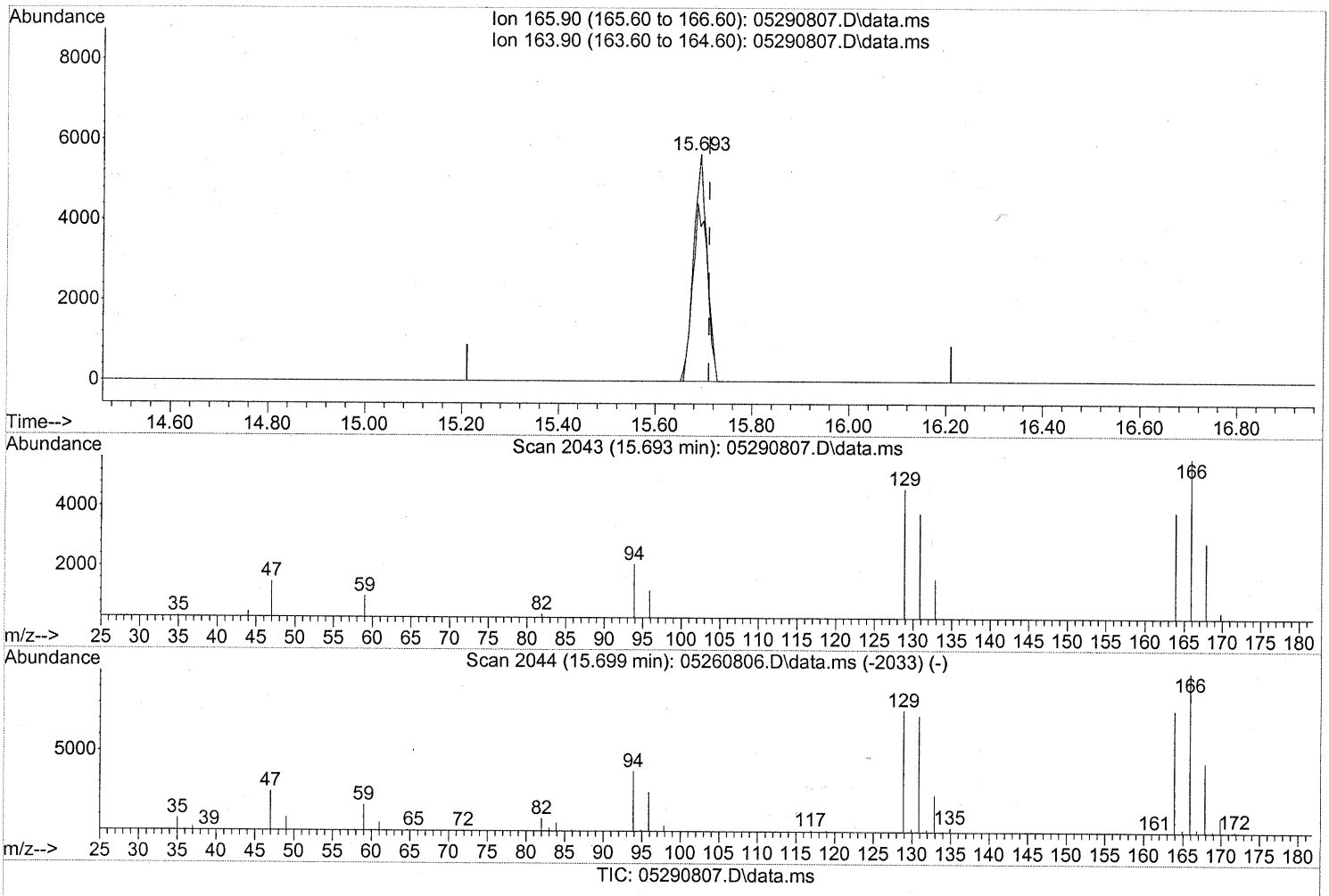
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	60.32
0.00	0.00	0.00
0.00	0.00	0.00

277

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 0.50ng

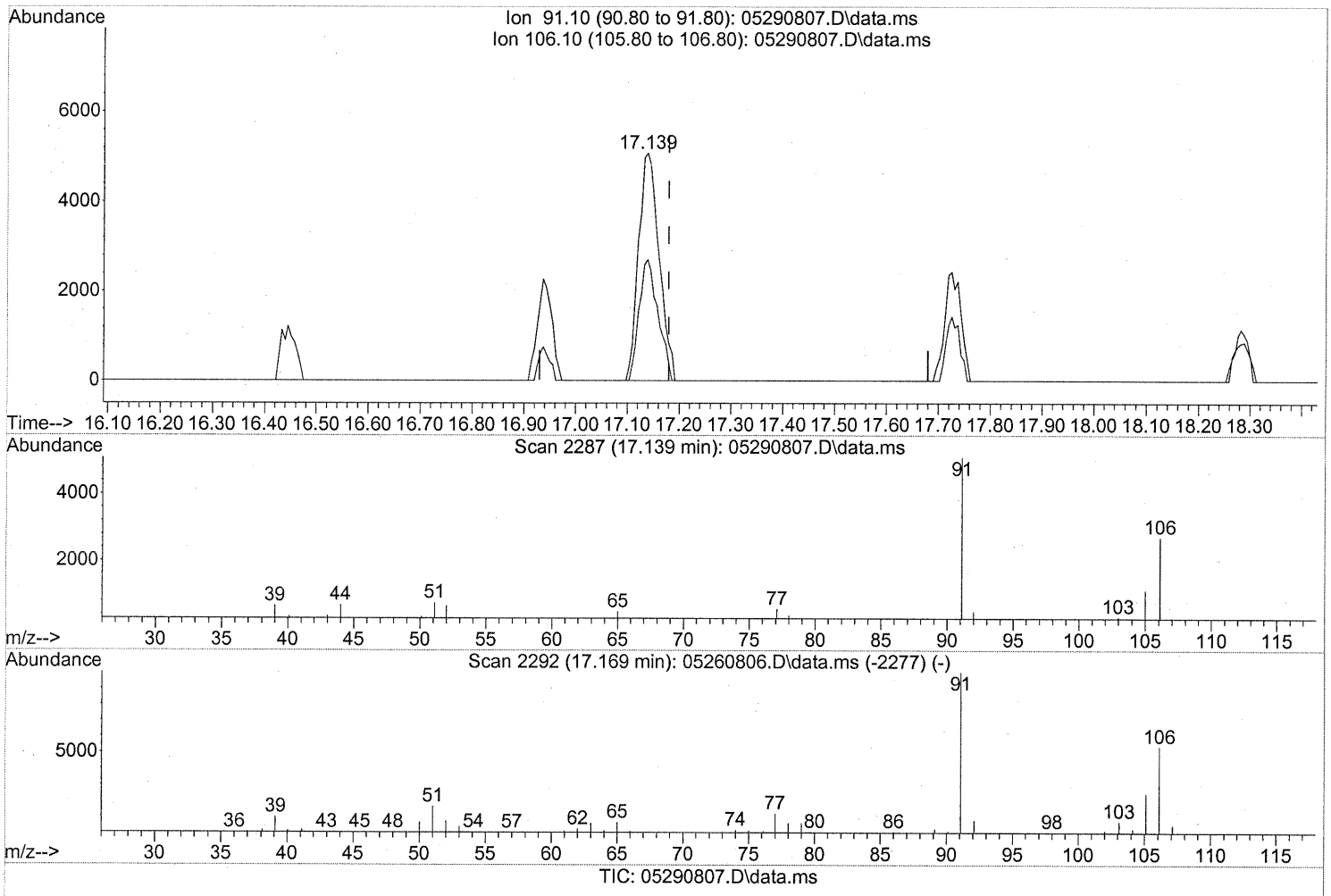
response 10954

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	86.40
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

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

17.139min (-0.042) 0.25ng

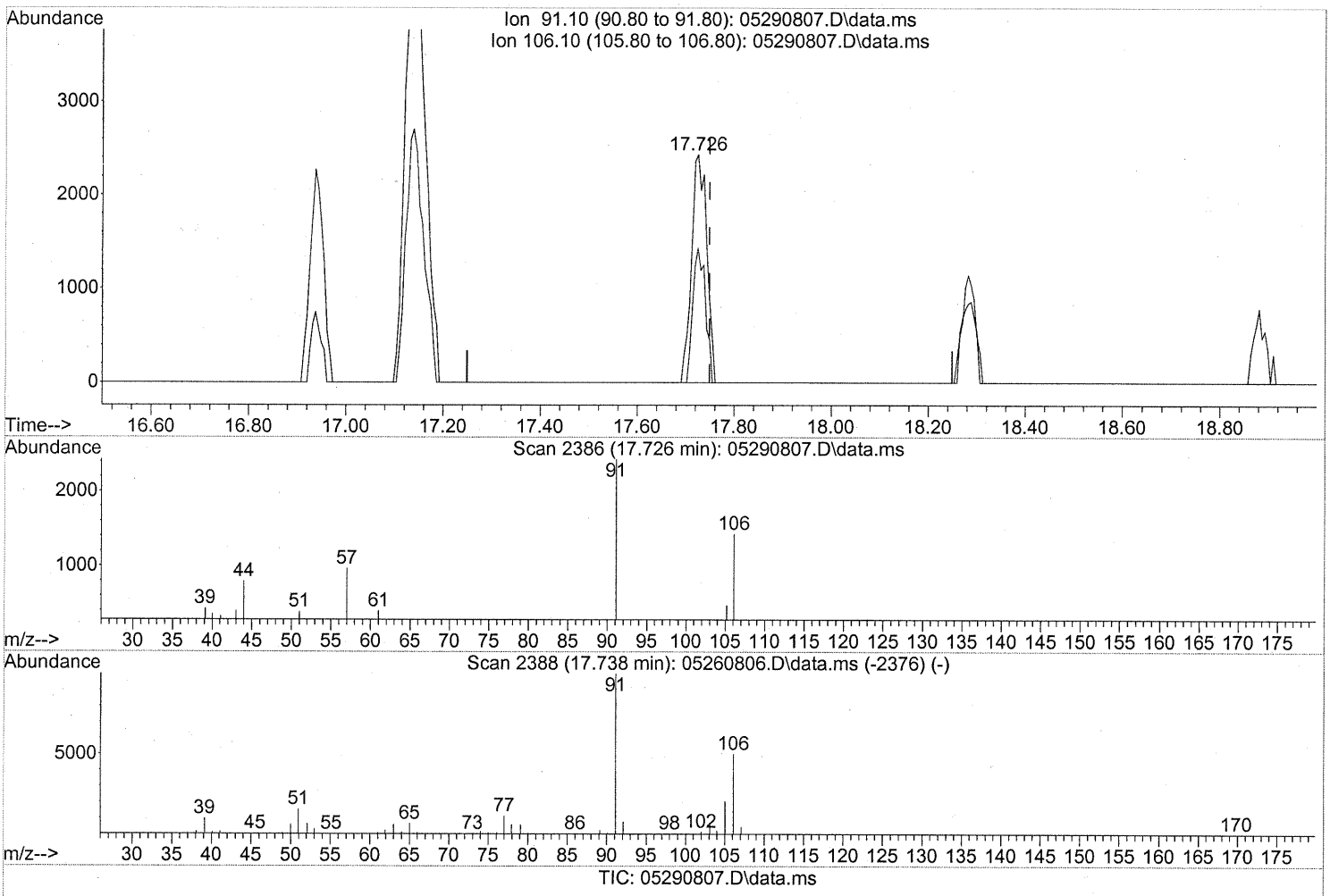
response 13951

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	49.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 10:38:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290807.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.09ng

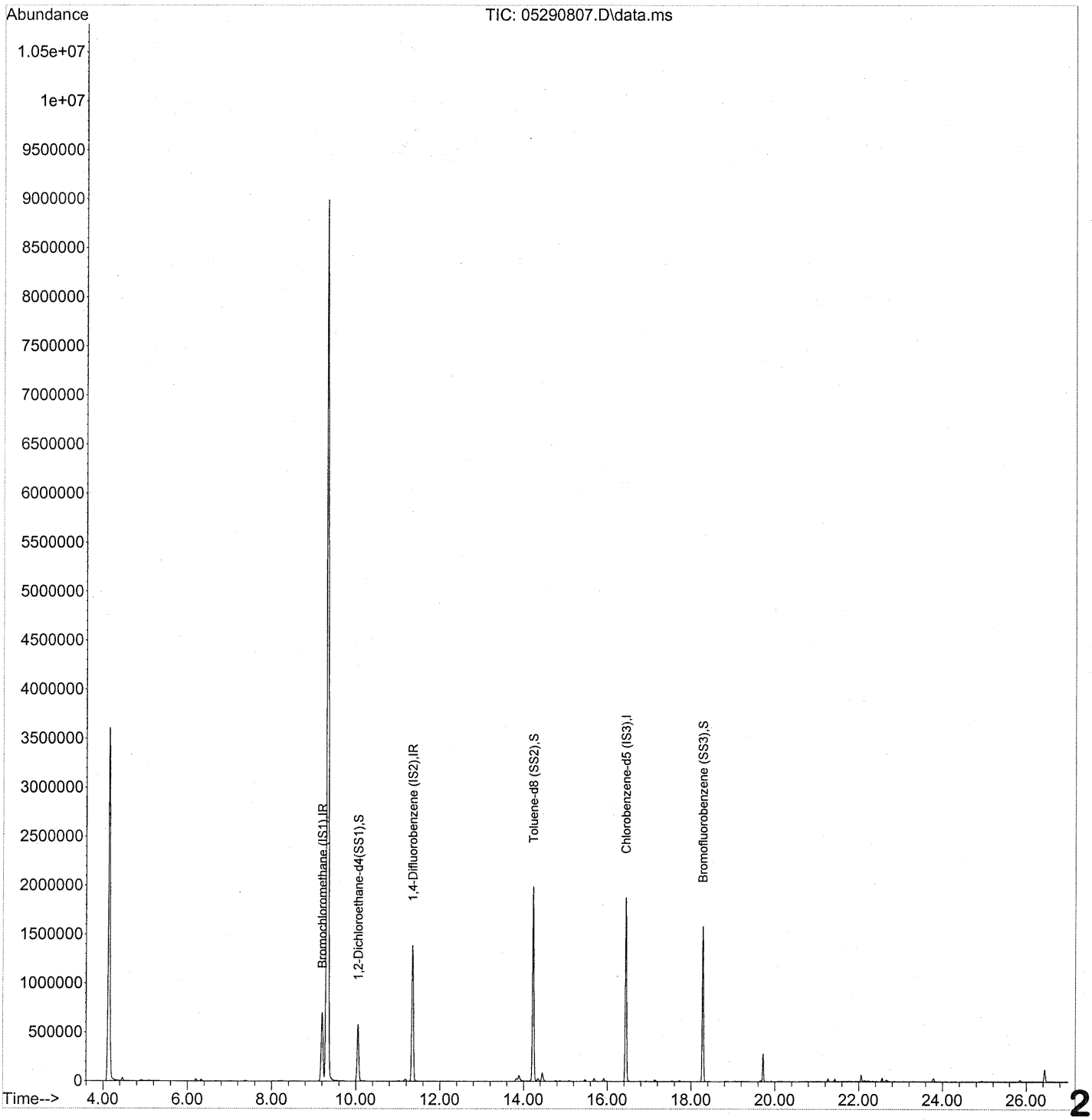
response 5322

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	48.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:56 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290807.D
Acq On : 29 May 2008 12:56
Operator : WA
Sample : P0801507-007 (15ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:56 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

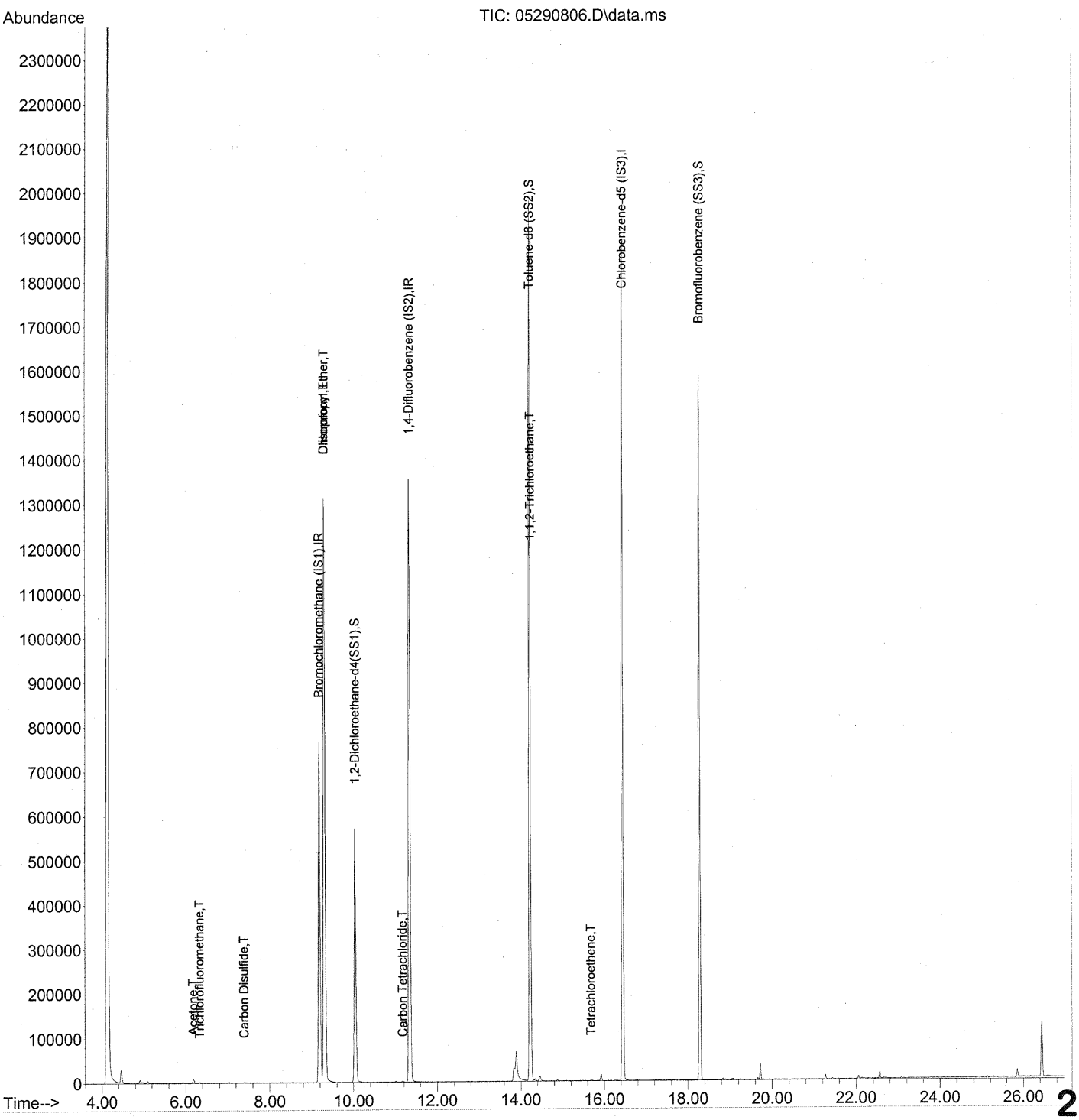
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	372594	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.35	114	1531812	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	629311	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	527664	24.767	ng	-0.04
Spiked Amount 25.000			Recovery =	99.08%		
5) Toluene-d8 (SS2)	14.23	98	1555150	23.970	ng	-0.02
Spiked Amount 25.000			Recovery =	95.88%		
6) Bromofluorobenzene (SS3)	18.28	174	565867	26.233	ng	-0.01
Spiked Amount 25.000			Recovery =	104.92%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	133	N.D.		
8) n-Butylbenzene	20.84	91	960	N.D.		

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290806.D
Acq On : 29 May 2008 12:19 pm
Operator : WA
Sample : P0801507-007 Dil (2.0ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:49:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290806.D
Acq On : 29 May 2008 12:19 pm
Operator : WA
Sample : P0801507-007 Dil (2.0ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:49:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	377706	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1560046	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	639445	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	534902	24.767	ng		-0.05
Spiked Amount 25.000			Recovery =	99.08%			
57) Toluene-d8 (SS2)	14.22	98	1588432	24.095	ng		-0.02
Spiked Amount 25.000			Recovery =	96.36%			
73) Bromofluorobenzene (SS3)	18.28	174	574485	26.210	ng		-0.01
Spiked Amount 25.000			Recovery =	104.84%			
Target Compounds							Qvalue
2) Propene	4.46	42	993	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	0.00	45	0	N.D.			
11) Acetonitrile	5.93	41	2801	N.D.			
12) Acrolein	6.07	56	644	N.D.			
13) Acetone	6.18	58	5226	0.265	ng	#	57
14) Trichlorofluoromethane	6.33	101	2036	0.061	ng		93
15) Isopropanol	6.41	45	468	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	7.04	84	601	N.D.			
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3268	0.053	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.16	63	228	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	9.31	87	144121	10.604	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290806.D
Acq On : 29 May 2008 12:19 pm
Operator : WA
Sample : P0801507-007 Dil (2.0ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:49:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	1343328	60.270	ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	0.00	56	0	N.D.			
41) Benzene	11.01	78	2277	N.D.			
42) Carbon Tetrachloride	11.18	117	2345	0.087	ng		100
43) Cyclohexane	11.34	84	926	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	14.24	97	136547	8.535	ng	#	7
58) Toluene	14.34	91	2498	N.D.			
59) 2-Hexanone	14.59	43	300	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	1570	N.D.			
63) n-Octane	0.00	57	0	N.D.			
64) Tetrachloroethene	15.68	166	1366	0.062	ng		91
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.93	91	557	N.D.			
67) m- & p-Xylene	17.14	91	2481	N.D.			
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	591	N.D.			
71) n-Nonane	0.00	43	0	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	727	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	19.19	105	570	N.D.			
78) 4-Ethyltoluene	19.24	105	89	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	97	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290806.D
Acq On : 29 May 2008 12:19 pm
Operator : WA
Sample : P0801507-007 Dil (2.0ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:49:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

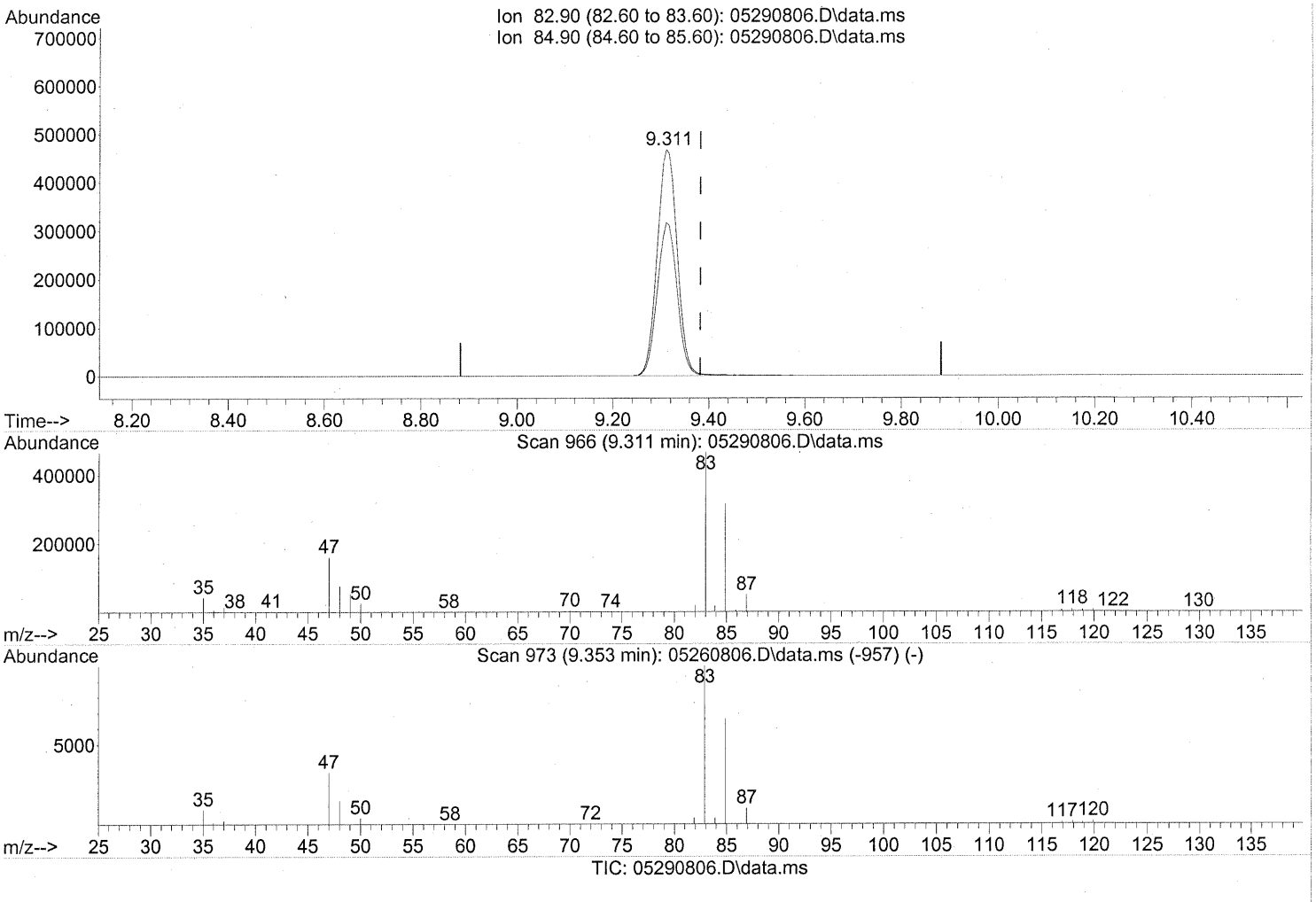
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	96	N.D.		
81) 2-Ethyltoluene	19.56	105	118	N.D.		
82) 1,2,4-Trimethylbenzene	19.82	105	527	N.D.		
83) n-Decane	19.92	57	234	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	20.03	146	92	N.D.		
86) 1,4-Dichlorobenzene	20.11	146	570	N.D.		
87) sec-Butylbenzene	19.82	105	527	N.D.		
88) p-Isopropyltoluene	20.34	119	110	N.D.		
89) 1,2,3-Trimethylbenzene	20.75	105	214	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	21.44	57	1360	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.70	128	2186	N.D.		
96) n-Dodecane	22.66	57	958	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:\MS16\DATA\2008_05\29\
Data File : 05290806.D
Acq On : 29 May 2008 12:19 pm
Operator : WA
Sample : P0801507-007 Dil (2.0ml)
Misc : ENSR SG58B-05 (-3.9, 3.7)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 12:49:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290806.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 60.27ng

response 1343328

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.36
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	17	1.7	ND	3.4	0.34	
74-87-3	Chloromethane	ND	3.3	1.7	ND	1.6	0.81	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	17	1.7	ND	2.4	0.24	
75-01-4	Vinyl Chloride	ND	3.3	1.7	ND	1.3	0.65	
74-83-9	Bromomethane	ND	3.3	1.7	ND	0.86	0.43	
75-00-3	Chloroethane	ND	3.3	1.7	ND	1.3	0.63	
64-17-5	Ethanol	ND	170	1.7	ND	89	0.89	
67-64-1	**Acetone**	**26**	170	2.4	**11**	70	1.0	**J, B**
75-69-4	**Trichlorofluoromethane**	**56**	3.3	1.7	**9.9**	0.59	0.30	
107-13-1	Acrylonitrile	ND	17	2.3	ND	7.7	1.1	
75-35-4	1,1-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	17	2.5	ND	5.5	0.82	
75-09-2	**Methylene Chloride**	**3.4**	17	1.7	**0.99**	4.8	0.48	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	3.3	1.7	ND	1.1	0.53	
76-13-1	Trichlorotrifluoroethane	ND	3.3	1.9	ND	0.44	0.24	
75-15-0	Carbon Disulfide	ND	17	4.0	ND	5.4	1.3	
156-60-5	trans-1,2-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
75-34-3	**1,1-Dichloroethane**	**7.2**	3.3	1.7	**1.8**	0.83	0.41	
1634-04-4	Methyl tert-Butyl Ether	ND	3.3	1.7	ND	0.93	0.46	
108-05-4	Vinyl Acetate	ND	170	5.3	ND	47	1.5	
78-93-3	**2-Butanone (MEK)**	**7.4**	17	1.7	**2.5**	5.7	0.57	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	3.3	1.7	ND	0.84	0.42	
108-20-3	Diisopropyl Ether	ND	17	2.0	ND	4.0	0.47	
67-66-3	**Chloroform**	**7,500**	3.3	2.0	**1,500**	0.68	0.40	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	17	1.7	ND	4.0	0.41	
107-06-2	1,2-Dichloroethane	ND	3.3	1.7	ND	0.83	0.41	
71-55-6	1,1,1-Trichloroethane	ND	3.3	1.7	ND	0.61	0.31	
71-43-2	**Benzene**	**6.3**	3.3	1.7	**2.0**	1.0	0.52	**B**
56-23-5	**Carbon Tetrachloride**	**210**	3.3	1.7	**33**	0.53	0.27	
994-05-8	tert-Amyl Methyl Ether	ND	17	1.7	ND	4.0	0.40	
78-87-5	1,2-Dichloropropane	ND	3.3	1.7	ND	0.72	0.36	
75-27-4	Bromodichloromethane	ND	3.3	1.7	ND	0.50	0.25	
79-01-6	Trichloroethene	ND	3.3	1.7	ND	0.62	0.31	
123-91-1	1,4-Dioxane	ND	17	2.0	ND	4.6	0.57	
80-62-6	Methyl Methacrylate	ND	17	2.5	ND	4.1	0.61	
142-82-5	n-Heptane	ND	17	2.1	ND	4.1	0.52	
10061-01-5	cis-1,3-Dichloropropene	ND	17	1.7	ND	3.7	0.38	
108-10-1	4-Methyl-2-pentanone	ND	17	1.9	ND	4.1	0.46	
10061-02-6	trans-1,3-Dichloropropene	ND	17	2.1	ND	3.7	0.46	
79-00-5	1,1,2-Trichloroethane	ND	3.3	1.7	ND	0.61	0.31	
108-88-3	**Toluene**	**32**	17	1.7	**8.6**	4.4	0.44	
591-78-6	2-Hexanone	ND	17	2.5	ND	4.1	0.62	
124-48-1	Dibromochloromethane	ND	3.3	2.3	ND	0.39	0.27	
106-93-4	1,2-Dibromoethane	ND	3.3	1.8	ND	0.43	0.23	
111-65-9	**n-Octane**	**26**	17	1.7	**5.5**	3.6	0.36	
127-18-4	**Tetrachloroethene**	**31**	3.3	1.7	**4.5**	0.49	0.25	
108-90-7	Chlorobenzene	ND	3.3	1.7	ND	0.73	0.37	

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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

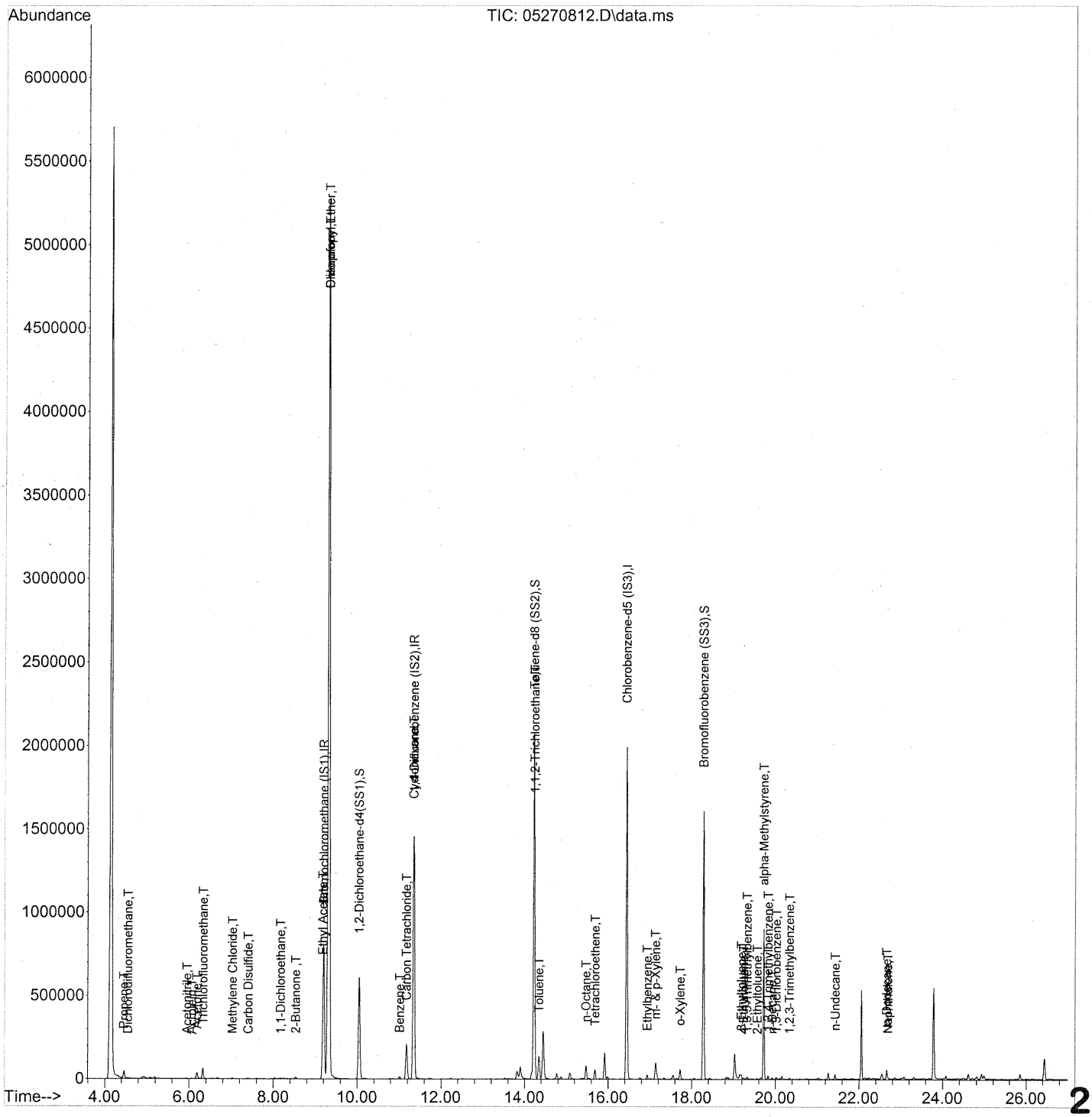
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**8.9**	17	2.1	**2.0**	3.8	0.48	**J**
179601-23-1	**m,p-Xylenes**	**47**	17	4.3	**11**	3.8	1.0	
75-25-2	Bromoform	ND	17	2.5	ND	1.6	0.25	
100-42-5	Styrene	ND	17	2.5	ND	3.9	0.60	
95-47-6	**o-Xylene**	**17**	17	2.1	**3.8**	3.8	0.48	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	3.3	2.1	ND	0.49	0.31	
98-82-8	Cumene	ND	17	1.9	ND	3.4	0.38	
103-65-1	n-Propylbenzene	ND	17	1.7	ND	3.4	0.35	
622-96-8	4-Ethyltoluene	ND	17	1.9	ND	3.4	0.39	
108-67-8	**1,3,5-Trimethylbenzene**	**3.6**	17	2.0	**0.74**	3.4	0.41	**J**
98-83-9	alpha-Methylstyrene	ND	17	2.4	ND	3.5	0.50	
95-63-6	**1,2,4-Trimethylbenzene**	**5.2**	17	2.3	**1.1**	3.4	0.47	**J**
100-44-7	Benzyl Chloride	ND	3.3	2.9	ND	0.65	0.56	
541-73-1	**1,3-Dichlorobenzene**	**4.3**	3.3	2.1	**0.72**	0.56	0.34	
106-46-7	1,4-Dichlorobenzene	ND	3.3	1.9	ND	0.56	0.31	
135-98-8	sec-Butylbenzene	ND	17	1.9	ND	3.0	0.35	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	17	2.2	ND	3.0	0.40	
95-50-1	1,2-Dichlorobenzene	ND	3.3	2.2	ND	0.56	0.37	
96-12-8	1,2-Dibromo-3-chloropropane	ND	17	2.5	ND	1.7	0.26	
120-82-1	1,2,4-Trichlorobenzene	ND	3.3	2.5	ND	0.45	0.34	
91-20-3	Naphthalene	ND	6.7	2.5	ND	1.3	0.47	
87-68-3	Hexachlorobutadiene	ND	3.3	3.0	ND	0.31	0.28	
98-06-6	tert-Butylbenzene	ND	6.7	1.7	ND	1.2	0.30	
104-51-8	n-Butylbenzene	ND	6.7	1.7	ND	1.2	0.30	

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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

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Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	400661	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.35	114	1646575	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	663053	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	558707	24.387	ng		-0.05
Spiked Amount 25.000			Recovery = 97.56%				
57) Toluene-d8 (SS2)	14.23	98	1667581	24.395	ng		-0.02
Spiked Amount 25.000			Recovery = 97.56%				
73) Bromofluorobenzene (SS3)	18.28	174	576728	25.376	ng		-0.01
Spiked Amount 25.000			Recovery = 101.52%				
Target Compounds							Qvalue
2) Propene	4.45	42	1662	0.054	ng	#	82
3) Dichlorodifluoromethane	4.55	85	2497	~~0.067~~	ng UR	#	83
4) Chloromethane	4.76	50	362	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	5.70	45	963	N.D.			
11) Acetonitrile	5.95	41	4128	0.068	ng	#	7
12) Acrolein	6.08	56	1628	0.107	ng		91
13) Acetone	6.19	58	16221	0.775	ng	#	74
14) Trichlorofluoromethane	6.33	101	58693	1.671	ng		99
15) Isopropanol	6.38	45	2605	N.D.			
16) Acrylonitrile	6.63	53	110	N.D.			
17) 1,1-Dichloroethene	6.94	96	246	N.D.			
18) tert-Butanol	6.97	59	464	N.D.			
19) Methylene Chloride	7.03	84	1664	0.103	ng	#	23
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	6332	~~0.097~~	ng		85
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	7356	0.215	ng		83
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.54	72	2425	0.222	ng	#	1
28) cis-1,2-Dichloroethene	9.18	61	535	N.D.			
29) Diisopropyl Ether	9.32	87	619134	~~42.943~~	ng UR	#	1
30) Ethyl Acetate	9.18	61	535	0.070	ng	#	38
31) n-Hexane	9.23	57	995	N.D.			

292

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	5697459	~~240.976~~	ng	see dil	96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.16	62	645	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	10.82	56	275	N.D.			
41) Benzene	11.02	78	13085	0.188	ng		97
42) Carbon Tetrachloride	11.18	117	178413	6.266	ng		97
43) Cyclohexane	11.34	84	2427	0.089	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	12.13	83	989	N.D.			
47) Trichloroethene	12.18	130	313	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.25	57	3828	N.D.			
50) Methyl Methacrylate	0.00	100	0	N.D.			
51) n-Heptane	12.50	71	104	N.D.			
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.			
53) 4-Methyl-2-pentanone	13.18	58	733	N.D.			
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	141459	~~8.378~~	ng	UR #	7
58) Toluene	14.35	91	74907	0.966	ng		97
59) 2-Hexanone	14.60	43	2237	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.38	43	297	N.D.			
63) n-Octane	15.47	57	18047	0.770	ng		96
64) Tetrachloroethene	15.69	166	21152	0.922	ng		97
65) Chlorobenzene	16.49	112	1202	N.D.			
66) Ethylbenzene	16.94	91	23480	0.266	ng		96
67) m- & p-Xylene	17.14	91	81558	1.397	ng		91
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	771	N.D.			
70) o-Xylene	17.73	91	31041	0.497	ng		92
71) n-Nonane	17.97	43	1458	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.45	105	730	N.D.			
75) alpha-Pinene	18.92	93	476	N.D.			
76) n-Propylbenzene	19.06	91	3291	N.D.			
77) 3-Ethyltoluene	19.19	105	14936	0.150	ng		96
78) 4-Ethyltoluene	19.24	105	4619	~~0.051~~	ng		97
79) 1,3,5-Trimethylbenzene	19.33	105	8738	0.109	ng		93

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

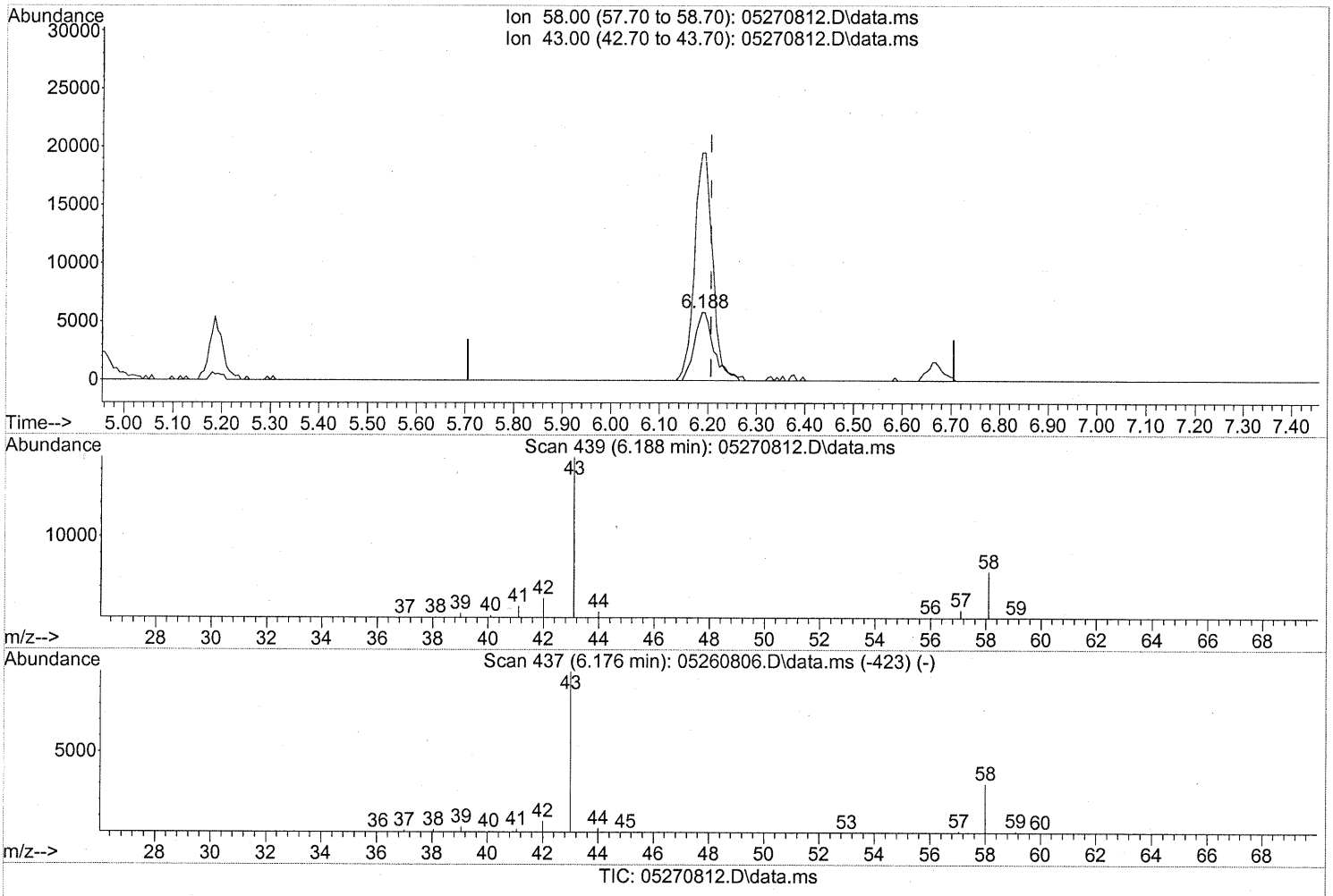
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.72	118	7134	~~0.159 ng~~ UR#	18
81) 2-Ethyltoluene	19.57	105	5558	0.057 ng	94
82) 1,2,4-Trimethylbenzene	19.83	105	12551	0.155 ng	97
83) n-Decane	19.92	57	3824	0.067 ng	79
84) Benzyl Chloride	19.83	91	1143	N.D.	
85) 1,3-Dichlorobenzene	20.02	146	6649	0.130 ng	97
86) 1,4-Dichlorobenzene	20.10	146	1926	N.D.	
87) sec-Butylbenzene	20.16	105	109	N.D.	
88) p-Isopropyltoluene	20.34	119	1063	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	4196	0.054 ng	88
90) 1,2-Dichlorobenzene	20.52	146	715	N.D.	
91) d-Limonene	20.51	68	455	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	21.43	57	10657	0.178 ng	88
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	6211	~~0.053 ng~~	96
96) n-Dodecane	22.66	57	21844	0.374 ng	76
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:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 0.77ng

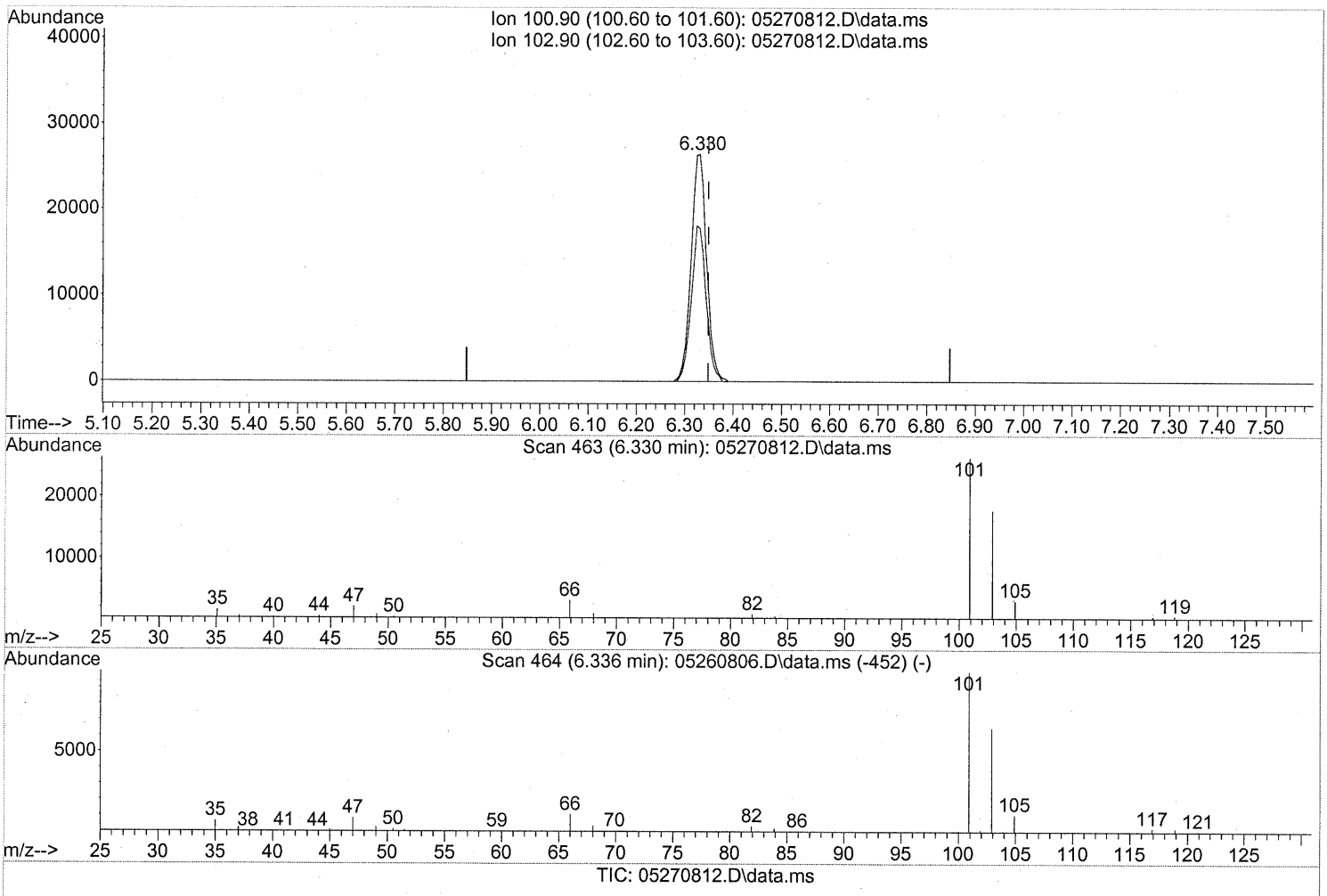
response 16221

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	309.09#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

6.330min (-0.018) 1.67ng

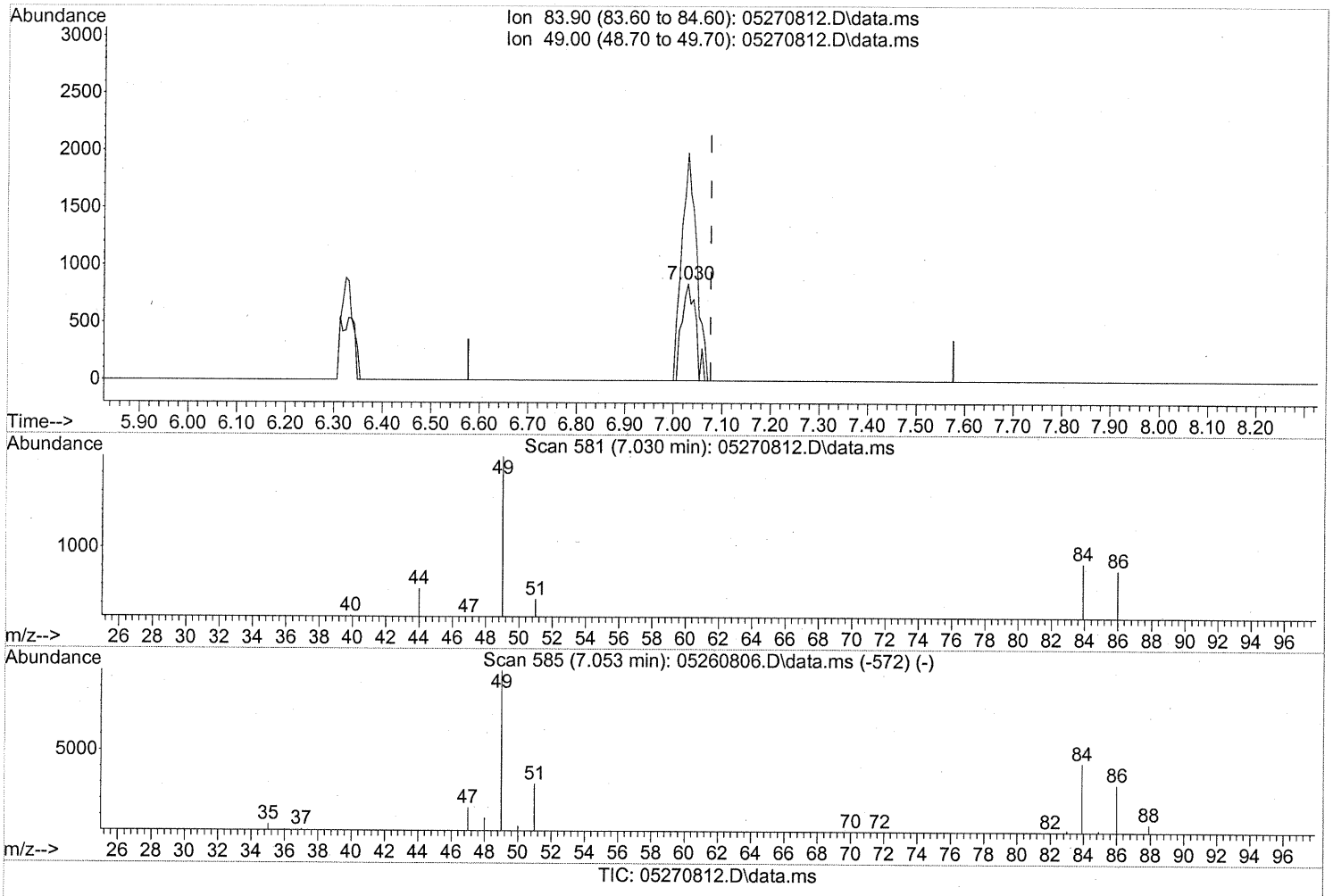
response 58693

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	65.66
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(19) Methylene Chloride (T)

7.030min (-0.047) 0.10ng

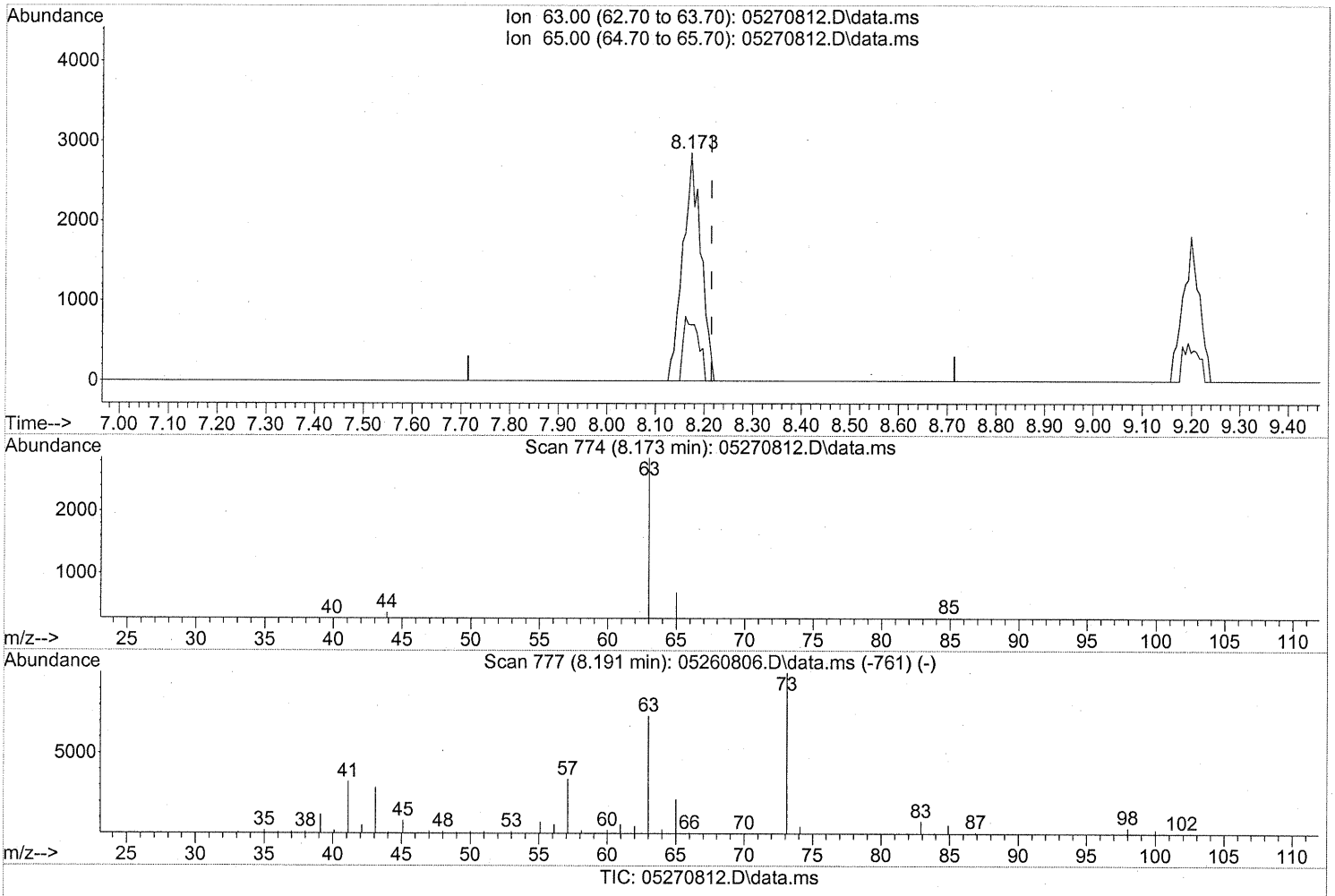
response 1664

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	254.75#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(24) 1,1-Dichloroethane (T)

8.173min (-0.042) 0.21ng

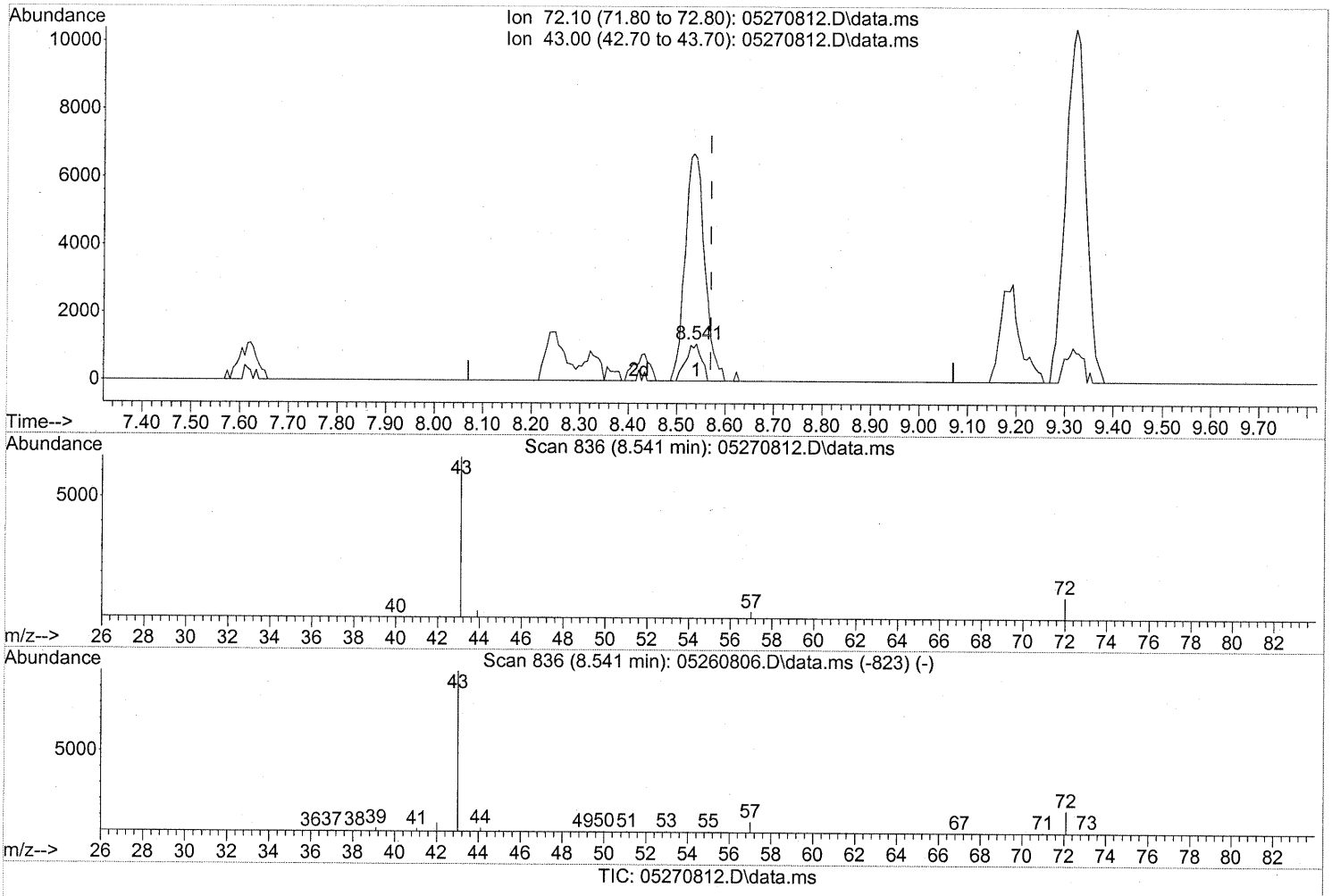
response 7356

Ion	Exp%	Act%
63.00	100	100
65.00	32.20	22.70
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(27) 2-Butanone (T)

8.541min (-0.030) 0.22ng

response 2425

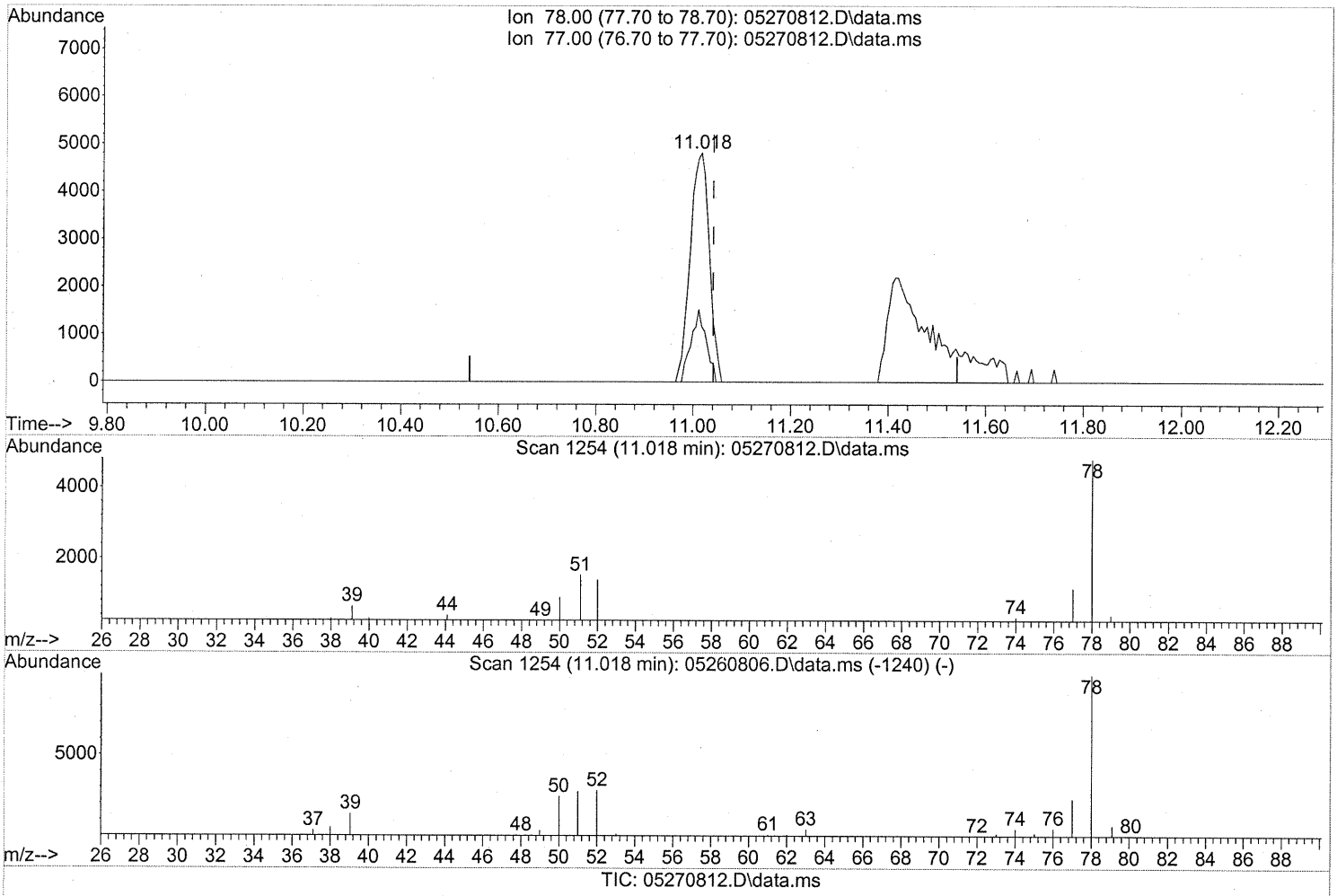
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	781.77#
0.00	0.00	0.00
0.00	0.00	0.00

299

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.018min (-0.024) 0.19ng

response 13085

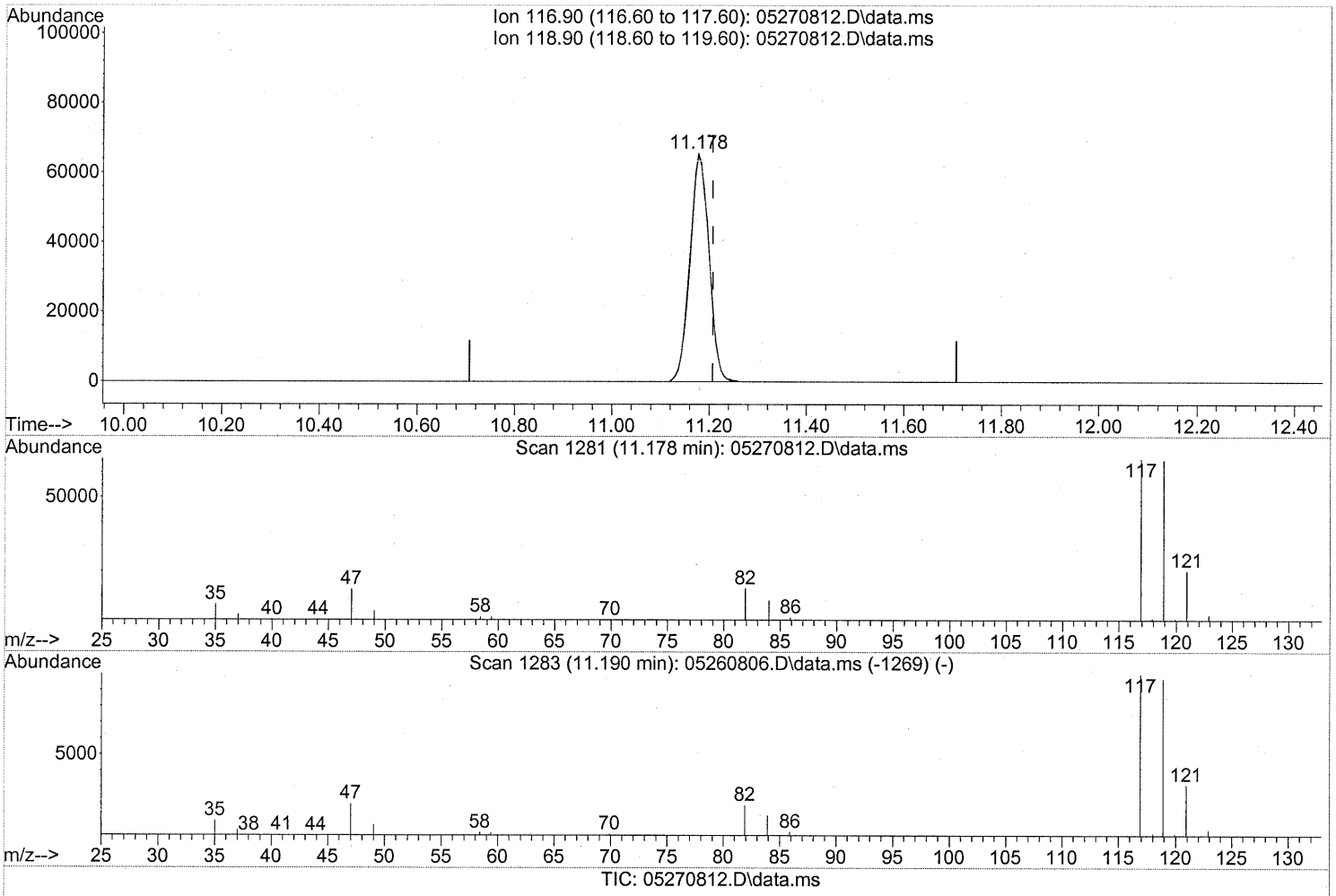
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	25.00
0.00	0.00	0.00
0.00	0.00	0.00

300

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 6.27ng

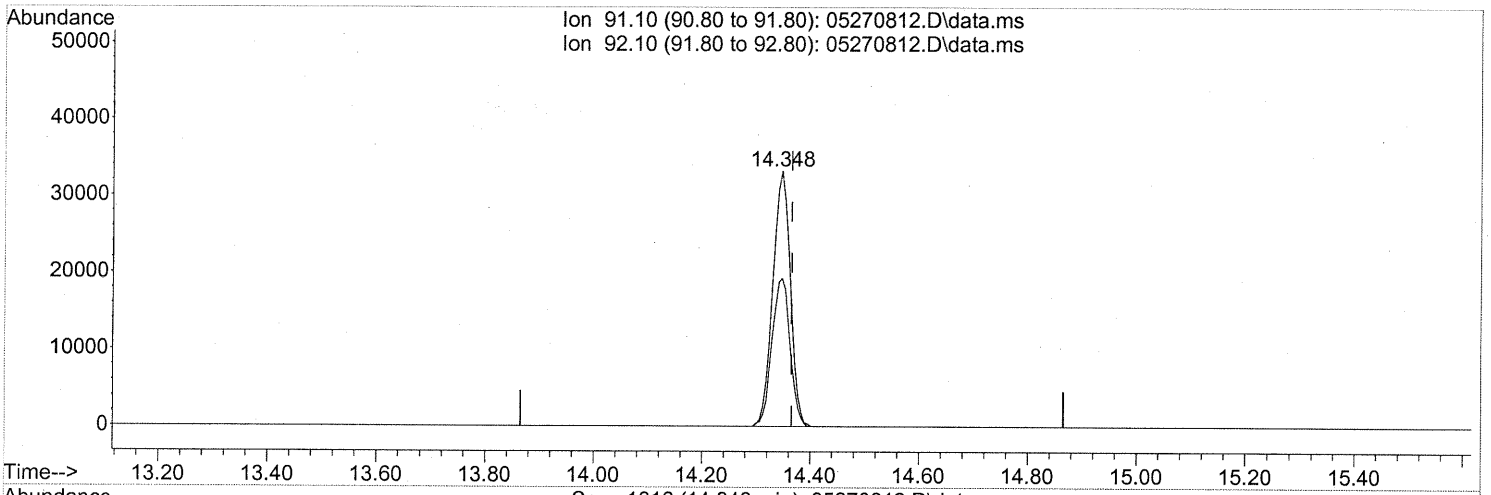
response 178413

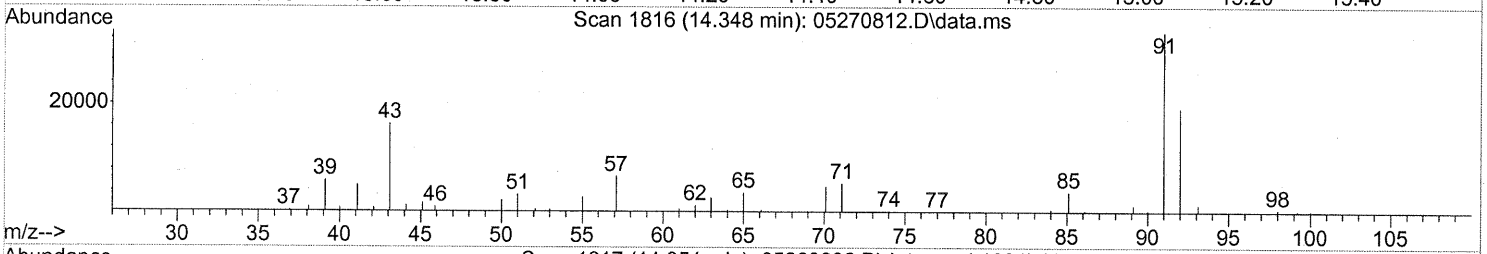
Ion	Exp%	Act%
116.90	100	100
118.90	95.30	97.88
0.00	0.00	0.00
0.00	0.00	0.00

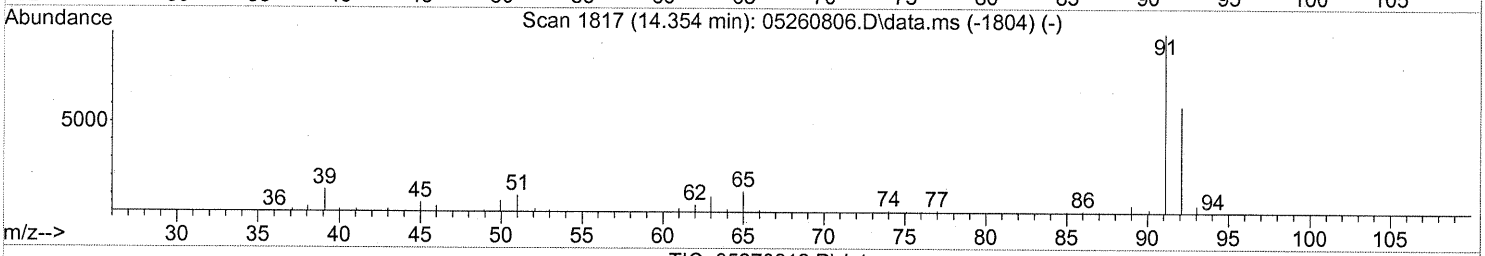
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270812.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 0.97ng

response 74907

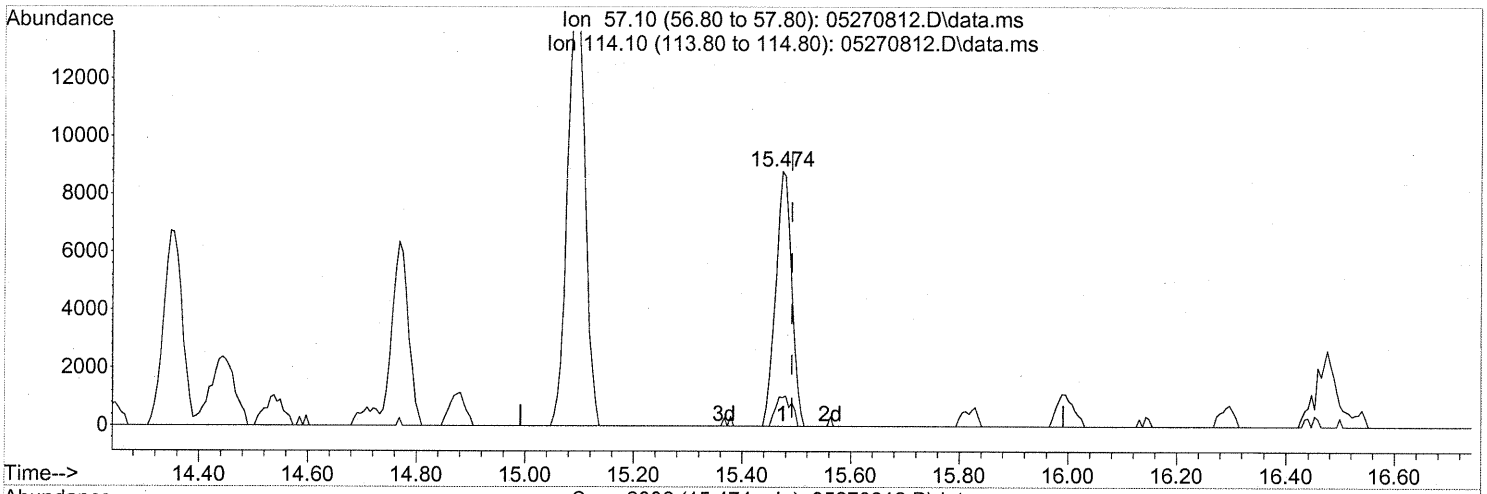
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.92
0.00	0.00	0.00
0.00	0.00	0.00

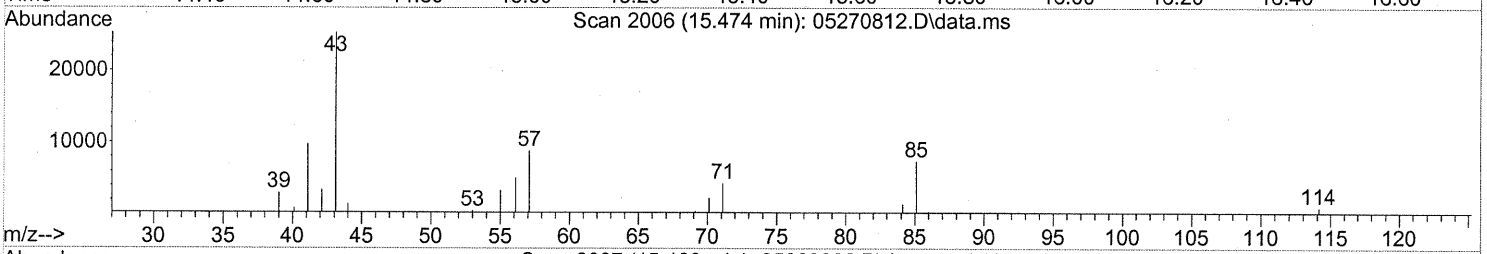
302

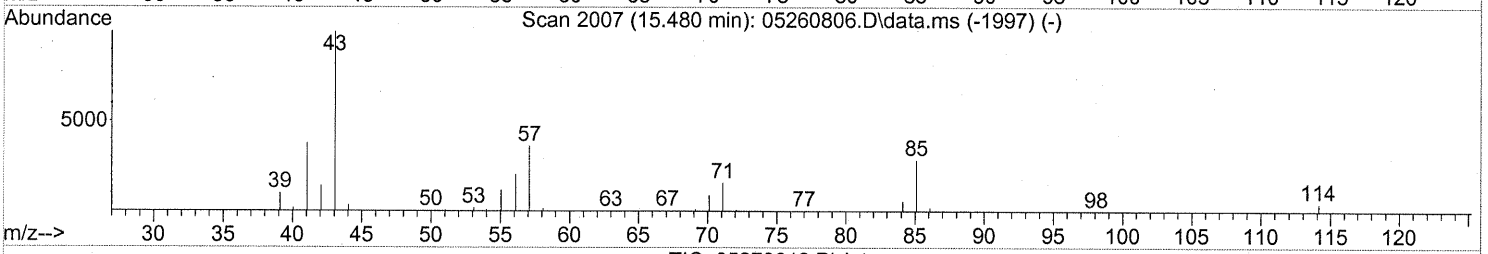
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270812.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.77ng

response 18047

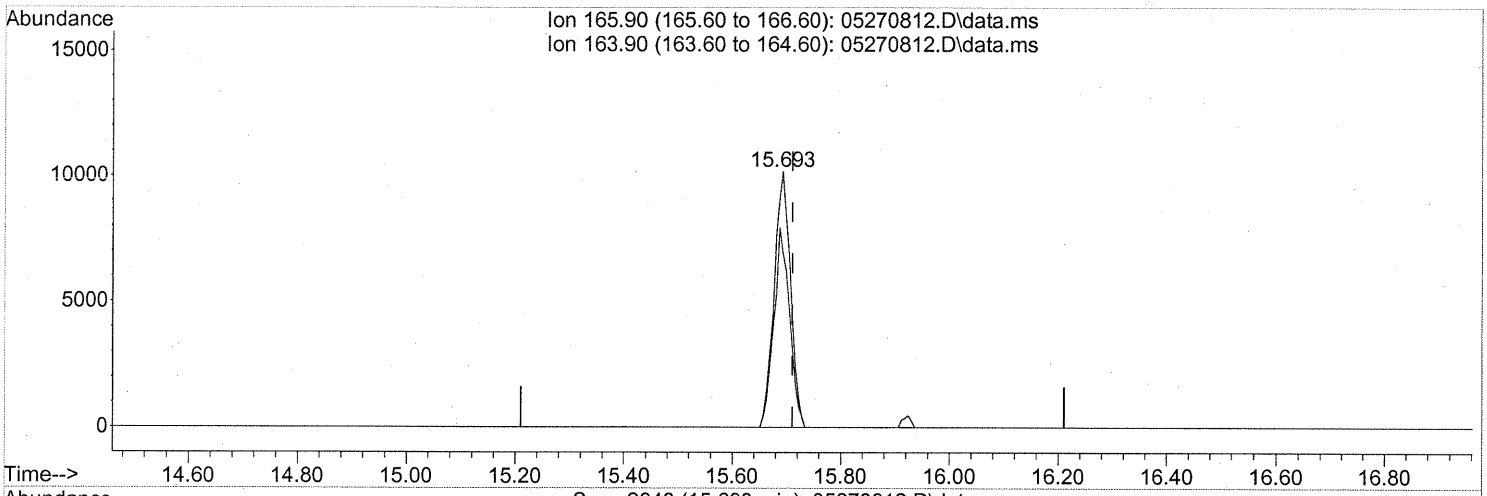
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.80
0.00	0.00	0.00
0.00	0.00	0.00

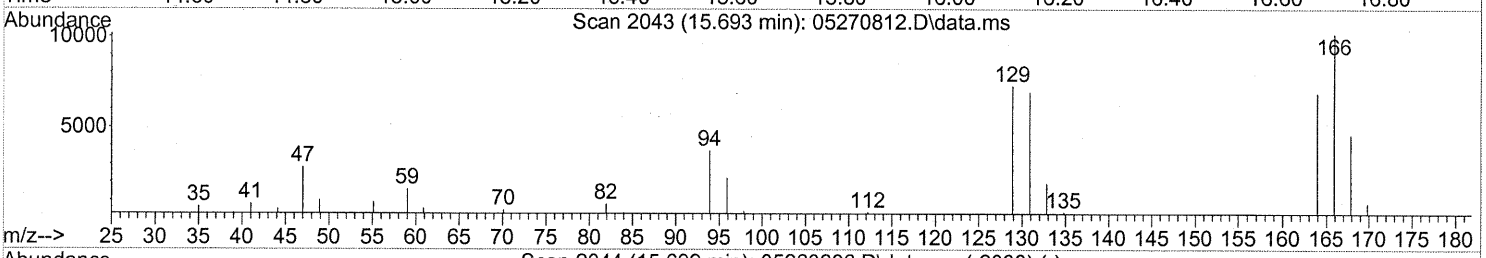
303

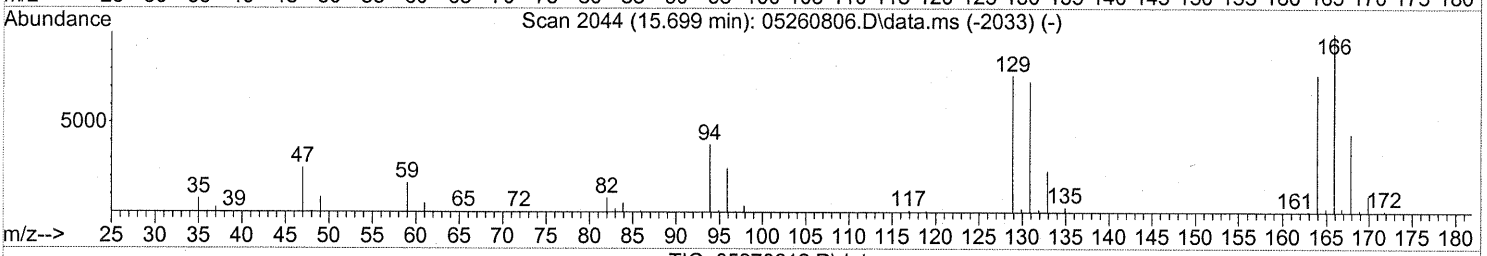
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270812.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 0.92ng

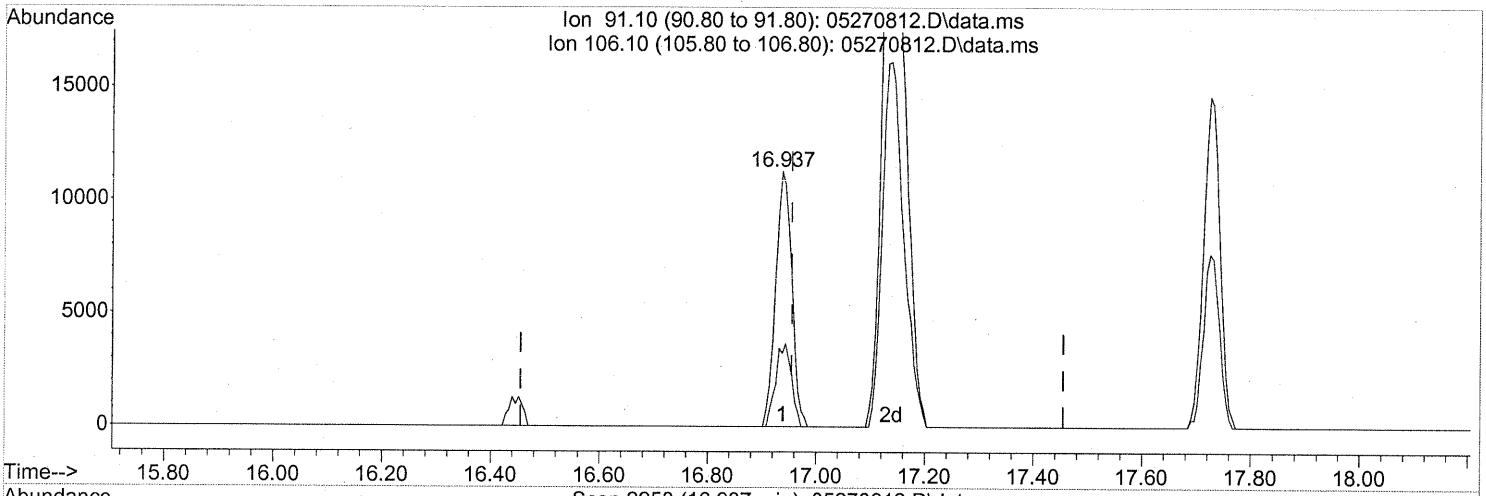
response 21152

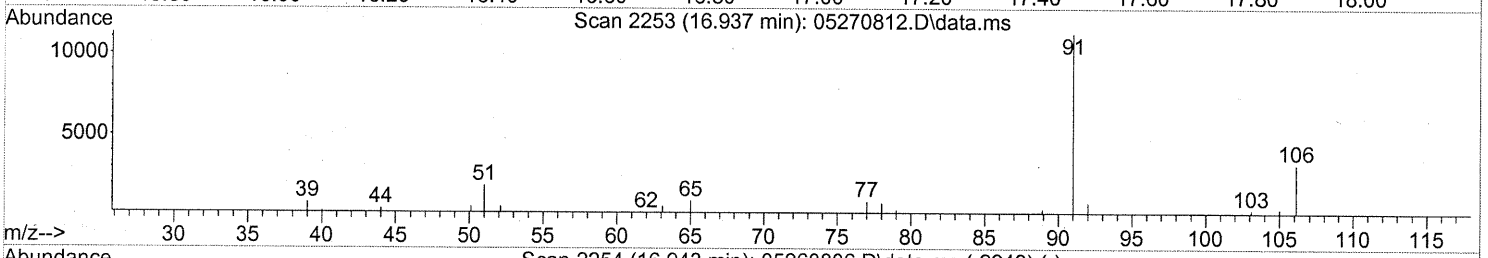
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	75.29
0.00	0.00	0.00
0.00	0.00	0.00

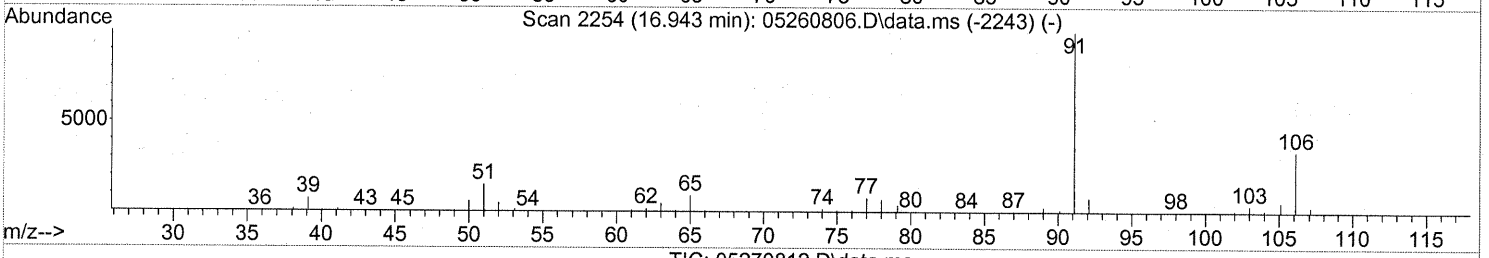
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270812.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.27ng

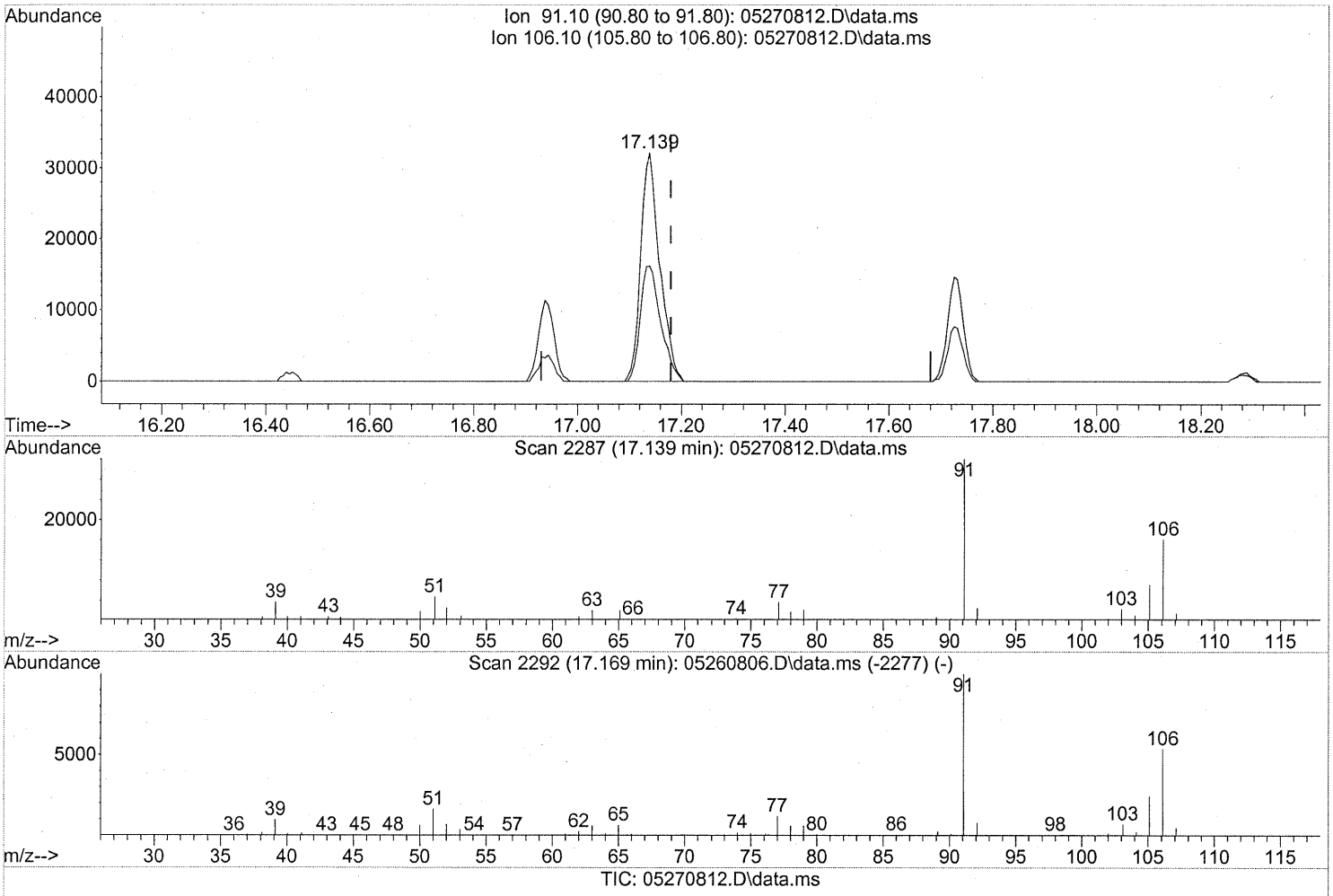
response 23480

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	31.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

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

17.139min (-0.042) 1.40ng

response 81558

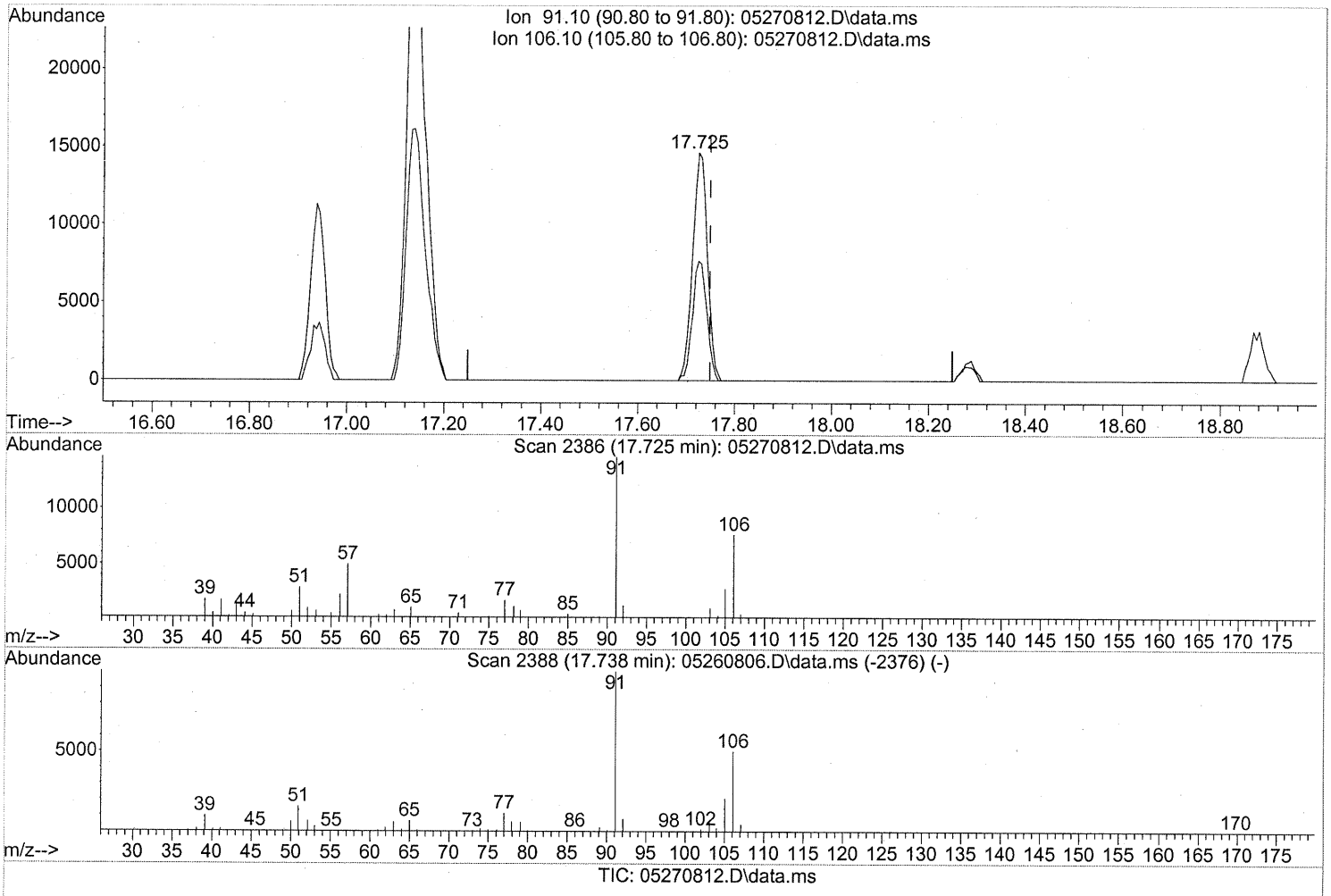
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	54.06
0.00	0.00	0.00
0.00	0.00	0.00

306

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

(70) o-Xylene (T)

17.725min (-0.024) 0.50ng

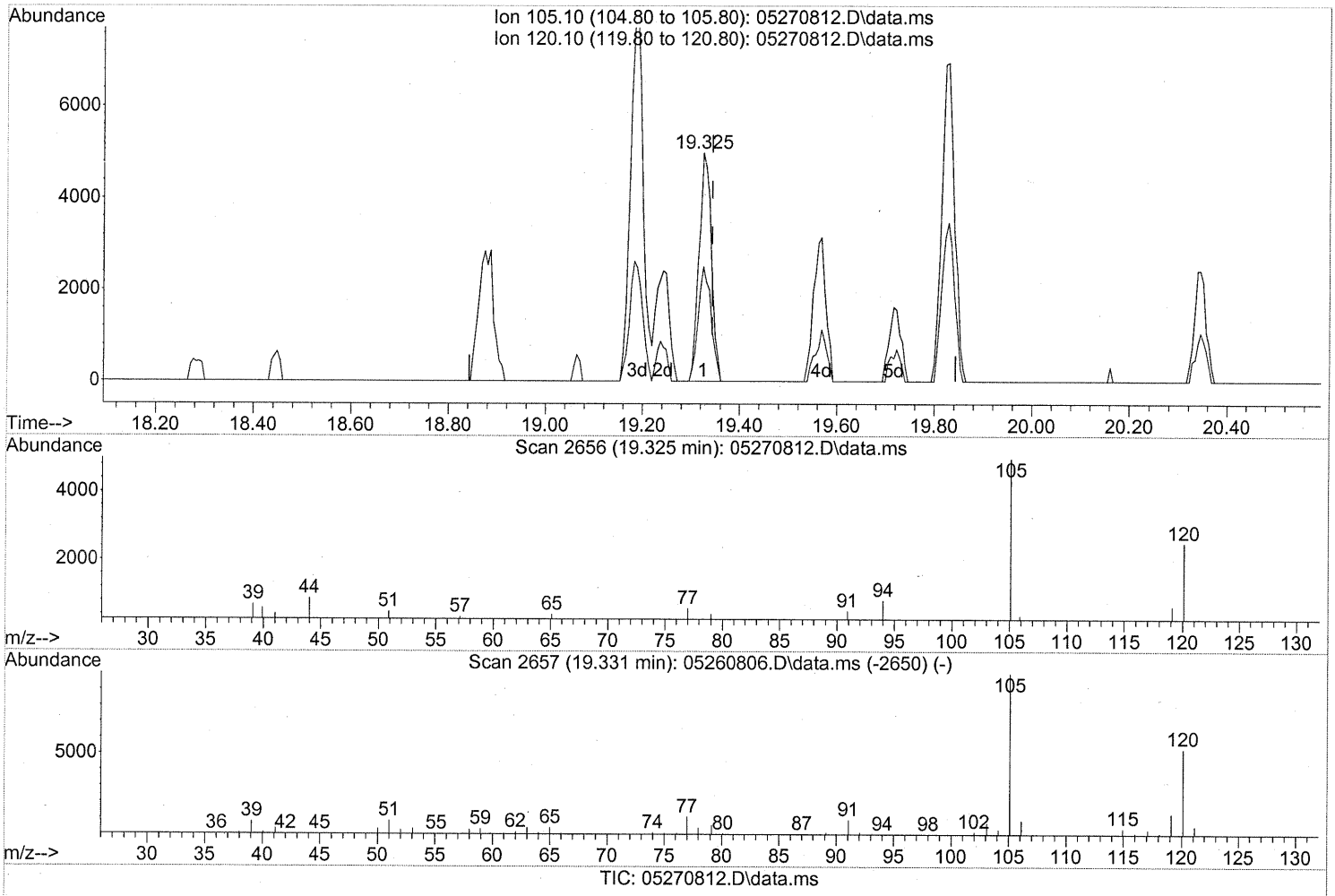
response 31041

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	51.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

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

19.325min (-0.018) 0.11ng

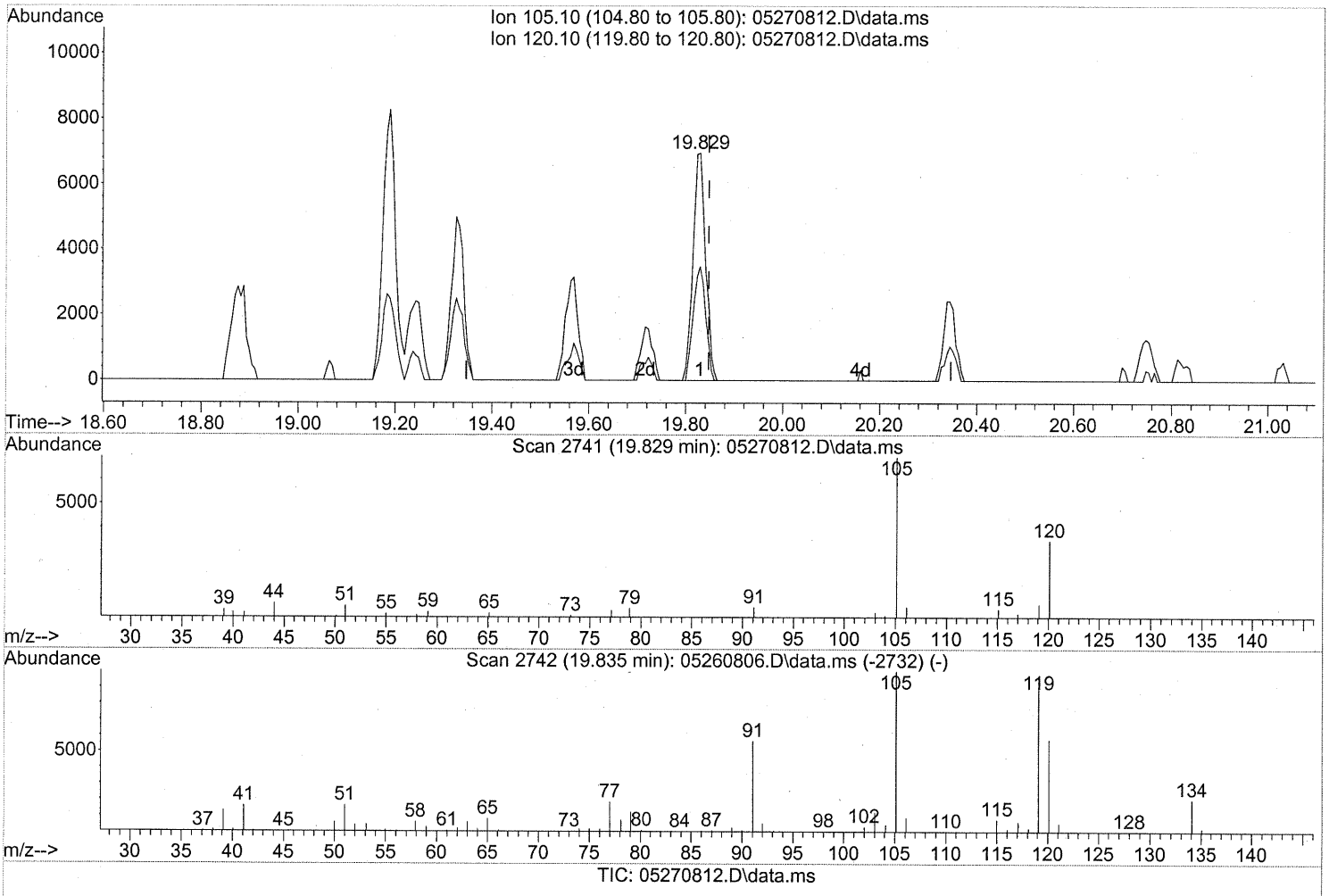
response 8738

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	52.28
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270812.D\data.ms

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

19.829min (-0.018) 0.16ng

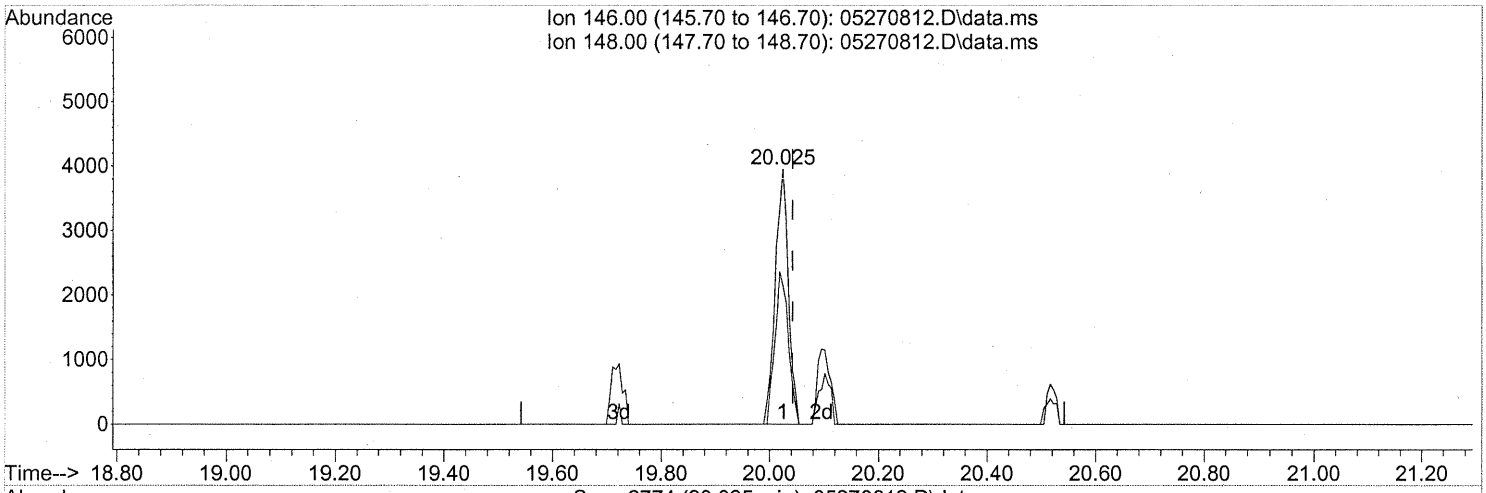
response 12551

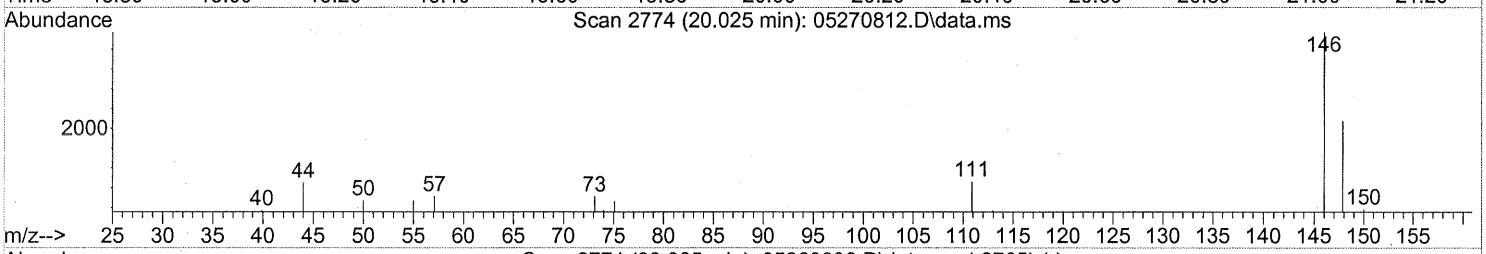
Ion	Exp%	Act%
105.10	100	100
120.10	51.70	49.49
0.00	0.00	0.00
0.00	0.00	0.00

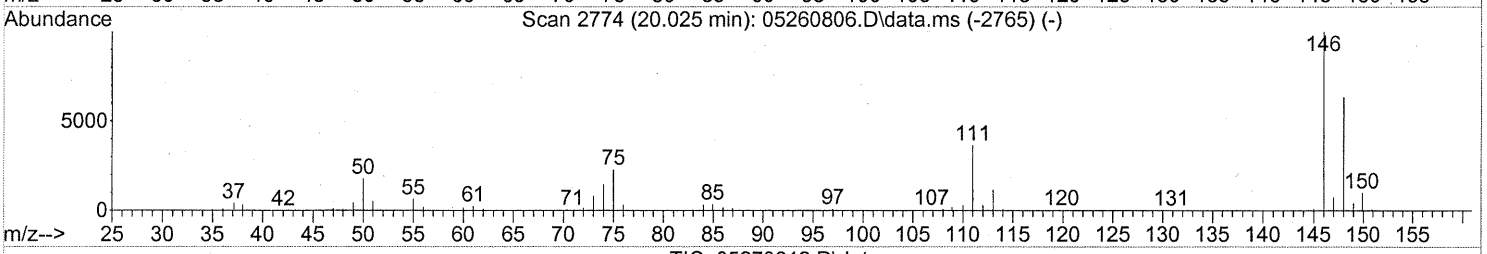
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270812.D\data.ms

(85) 1,3-Dichlorobenzene (T)

20.025min (-0.018) 0.13ng

response 6649

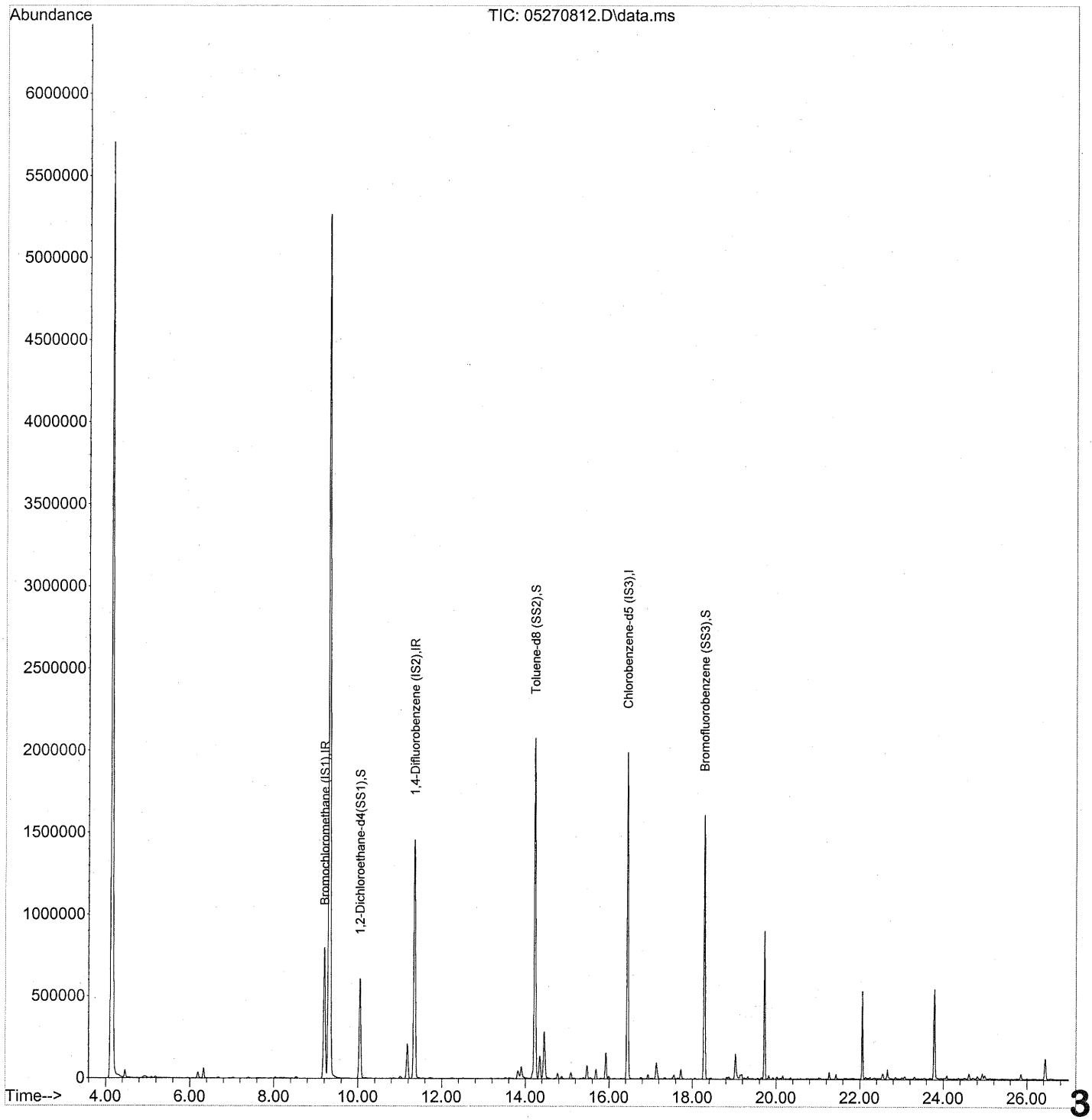
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	61.09
0.00	0.00	0.00
0.00	0.00	0.00

310

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:39:25 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270812.D
Acq On : 27 May 2008 19:49
Operator : WA
Sample : P0801507-008 (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:39:25 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	400661	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.35	114	1646575	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	663053	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	558707	24.387	ng	-0.05
Spiked Amount 25.000			Recovery = 97.56%			
5) Toluene-d8 (SS2)	14.23	98	1667581	24.395	ng	-0.02
Spiked Amount 25.000			Recovery = 97.56%			
6) Bromofluorobenzene (SS3)	18.28	174	576728	25.376	ng	-0.01
Spiked Amount 25.000			Recovery = 101.52%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.82	119	1481	N.D.		
8) n-Butylbenzene	20.82	91	899	N.D.		

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

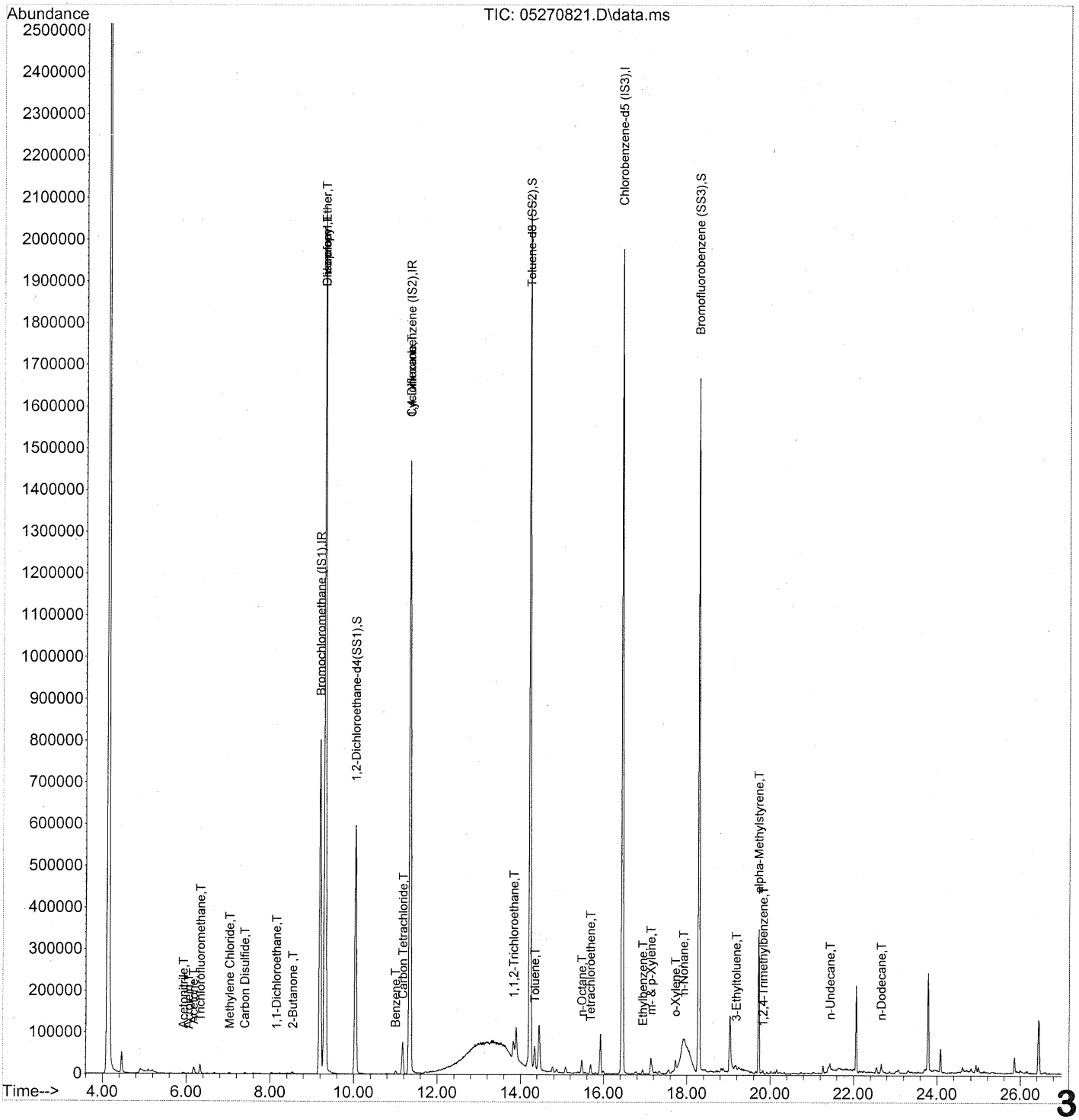
312

JDA 6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 28 May 2008 1:39
Operator : WA
Sample : P0801507-008 Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 28 May 2008 1:39
Operator : WA
Sample : P0801507-008 Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	402096	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1667992	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	682079	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	557616	24.253	ng		-0.05
Spiked Amount 25.000			Recovery = 97.00%				
57) Toluene-d8 (SS2)	14.22	98	1701849	24.202	ng		-0.02
Spiked Amount 25.000			Recovery = 96.80%				
73) Bromofluorobenzene (SS3)	18.28	174	604876	25.872	ng		-0.01
Spiked Amount 25.000			Recovery = 103.48%				
Target Compounds							Qvalue
2) Propene	4.45	42	1016	N.D.			
3) Dichlorodifluoromethane	4.56	85	736	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	5.70	45	198	N.D.			
11) Acetonitrile	5.93	41	3651	0.060	ng	#	9
12) Acrolein	6.06	56	1075	0.071	ng		81
13) Acetone	6.17	58	8831	0.420	ng	#	67
14) Trichlorofluoromethane	6.33	101	21973	0.623	ng		96
15) Isopropanol	6.39	45	1024	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	7.03	84	1122	0.069	ng	#	33
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	4242	0.065	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.16	63	2571	0.075	ng	#	52
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.54	72	944	0.086	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.31	87	233206	16.118	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.24	57	188	N.D.			

DM 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 28 May 2008 1:39
Operator : WA
Sample : P0801507-008 Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	2127594	89.666	ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	10.81	56	1209	N.D.			
41) Benzene	11.00	78	8237	0.117	ng		93
42) Carbon Tetrachloride	11.18	117	65945	2.286	ng		99
43) Cyclohexane	11.34	84	1505	0.055	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	12.13	83	820	N.D.			
47) Trichloroethene	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	2021	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	13.19	58	305	N.D.			
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	13.83	97	1134	0.066	ng	#	49
58) Toluene	14.35	91	29682	0.372	ng		99
59) 2-Hexanone	14.63	43	414	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.32	43	588	N.D.			
63) n-Octane	15.47	57	7011	0.291	ng		89
64) Tetrachloroethene	15.69	166	8244	0.349	ng		98
65) Chlorobenzene	16.50	112	463	N.D.			
66) Ethylbenzene	16.94	91	9315	0.103	ng		91
67) m- & p-Xylene	17.14	91	32500	0.541	ng		91
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.58	104	453	N.D.			
70) o-Xylene	17.73	91	12691	0.197	ng		91
71) n-Nonane	17.92	43	290450	4.578	ng	#	18
72) 1,1,2,2-Tetrachloroethane	17.72	83	221	N.D.			
74) Cumene	18.46	105	479	N.D.			
75) alpha-Pinene	18.94	93	108	N.D.			
76) n-Propylbenzene	19.07	91	2125	N.D.			
77) 3-Ethyltoluene	19.18	105	6166	0.060	ng		94
78) 4-Ethyltoluene	19.24	105	2076	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	3360	N.D.			

JSA 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 28 May 2008 1:39
Operator : WA
Sample : P0801507-008 Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	3192	0.069	ng	#	32
81) 2-Ethyltoluene	19.56	105	2581	N.D.			
82) 1,2,4-Trimethylbenzene	19.83	105	5702	0.069	ng		86
83) n-Decane	19.93	57	2844	N.D.			
84) Benzyl Chloride	20.02	91	95	N.D.			
85) 1,3-Dichlorobenzene	20.02	146	2086	N.D.			
86) 1,4-Dichlorobenzene	20.09	146	800	N.D.			
87) sec-Butylbenzene	20.15	105	361	N.D.			
88) p-Isopropyltoluene	20.33	119	525	N.D.			
89) 1,2,3-Trimethylbenzene	20.34	105	2032	N.D.			
90) 1,2-Dichlorobenzene	20.51	146	91	N.D.			
91) d-Limonene	20.52	68	114	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.44	57	4704	0.076	ng		89
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.69	128	2920	N.D.			
96) n-Dodecane	22.66	57	13439	0.223	ng		78
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.			

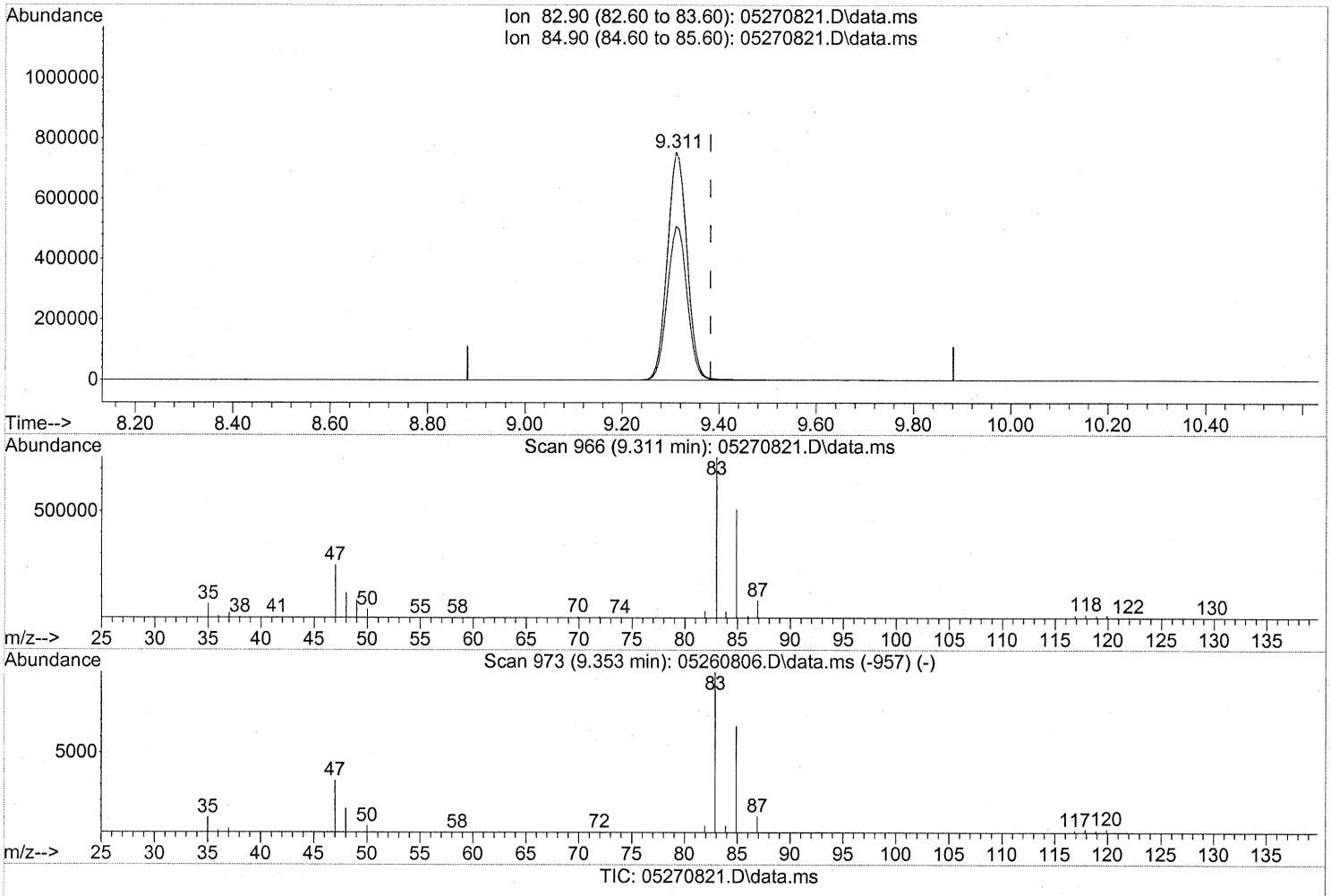
(#) = qualifier out of range (m) = manual integration (+) = signals summed

316

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270821.D
Acq On : 28 May 2008 1:39
Operator : WA
Sample : P0801507-008 Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270821.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 89.67ng

response 2127594

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.94
0.00	0.00	0.00
0.00	0.00	0.00

317

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00978

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.15 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.2**	5.6	0.56	**0.44**	1.1	0.11	**J**
74-87-3	Chloromethane	ND	1.1	0.56	ND	0.54	0.27	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	5.6	0.56	ND	0.80	0.080	
75-01-4	Vinyl Chloride	ND	1.1	0.56	ND	0.44	0.22	
74-83-9	Bromomethane	ND	1.1	0.56	ND	0.29	0.14	
75-00-3	Chloroethane	ND	1.1	0.56	ND	0.42	0.21	
64-17-5	**Ethanol**	**1.4**	56	0.56	**0.72**	30	0.30	**J**
67-64-1	**Acetone**	**13**	56	0.81	**5.6**	23	0.34	**J, B**
75-69-4	**Trichlorofluoromethane**	**57**	1.1	0.56	**10**	0.20	0.099	
107-13-1	Acrylonitrile	ND	5.6	0.78	ND	2.6	0.36	
75-35-4	**1,1-Dichloroethene**	**0.87**	1.1	0.56	**0.22**	0.28	0.14	**J**
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	5.6	0.82	ND	1.8	0.27	
75-09-2	**Methylene Chloride**	**3.0**	5.6	0.56	**0.86**	1.6	0.16	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	1.1	0.56	ND	0.36	0.18	
76-13-1	Trichlorotrifluoroethane	ND	1.1	0.62	ND	0.15	0.081	
75-15-0	**Carbon Disulfide**	**3.5**	5.6	1.3	**1.1**	1.8	0.43	**J**
156-60-5	trans-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
75-34-3	**1,1-Dichloroethane**	**7.5**	1.1	0.56	**1.9**	0.28	0.14	
1634-04-4	Methyl tert-Butyl Ether	ND	1.1	0.56	ND	0.31	0.15	
108-05-4	Vinyl Acetate	ND	56	1.8	ND	16	0.51	
78-93-3	**2-Butanone (MEK)**	**4.5**	5.6	0.56	**1.5**	1.9	0.19	**J**
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.56	ND	0.28	0.14	
108-20-3	Diisopropyl Ether	ND	5.6	0.66	ND	1.3	0.16	
67-66-3	**Chloroform**	**7,700**	1.1	0.66	**1,600**	0.23	0.13	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG56B-05D**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-009

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00978

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.15 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	5.6	0.57	ND	1.3	0.14	
107-06-2	**1,2-Dichloroethane**	**1.0**	1.1	0.56	**0.25**	0.28	0.14	**J**
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
71-43-2	**Benzene**	**4.8**	1.1	0.56	**1.5**	0.35	0.17	
56-23-5	**Carbon Tetrachloride**	**220**	1.1	0.56	**35**	0.18	0.089	
994-05-8	tert-Amyl Methyl Ether	ND	5.6	0.56	ND	1.3	0.13	
78-87-5	1,2-Dichloropropane	ND	1.1	0.56	ND	0.24	0.12	
75-27-4	**Bromodichloromethane**	**2.1**	1.1	0.56	**0.32**	0.17	0.083	
79-01-6	**Trichloroethene**	**0.98**	1.1	0.56	**0.18**	0.21	0.10	**J**
123-91-1	1,4-Dioxane	ND	5.6	0.68	ND	1.5	0.19	
80-62-6	Methyl Methacrylate	ND	5.6	0.84	ND	1.4	0.20	
142-82-5	**n-Heptane**	**1.1**	5.6	0.71	**0.27**	1.4	0.17	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.58	ND	1.2	0.13	
108-10-1	**4-Methyl-2-pentanone**	**1.9**	5.6	0.62	**0.46**	1.4	0.15	**J**
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.70	ND	1.2	0.15	
79-00-5	1,1,2-Trichloroethane	ND	1.1	0.56	ND	0.20	0.10	
108-88-3	**Toluene**	**35**	5.6	0.56	**9.2**	1.5	0.15	
591-78-6	**2-Hexanone**	**1.0**	5.6	0.85	**0.24**	1.4	0.21	**J**
124-48-1	Dibromochloromethane	ND	1.1	0.76	ND	0.13	0.089	
106-93-4	1,2-Dibromoethane	ND	1.1	0.60	ND	0.14	0.078	
111-65-9	**n-Octane**	**27**	5.6	0.56	**5.9**	1.2	0.12	
127-18-4	**Tetrachloroethene**	**30**	1.1	0.56	**4.4**	0.16	0.082	
108-90-7	**Chlorobenzene**	**0.81**	1.1	0.57	**0.18**	0.24	0.12	**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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG56B-05D** CAS Sample ID: P0801507-009
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.15 Liter(s)
Test Notes: 0.020 Liter(s)
Container ID: SC00978

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

Canister Dilution Factor: 1.67

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**11**	5.6	0.69	**2.4**	1.3	0.16	
179601-23-1	**m,p-Xylenes**	**56**	5.6	1.4	**13**	1.3	0.33	
75-25-2	Bromoform	ND	5.6	0.85	ND	0.54	0.082	
100-42-5	Styrene	ND	5.6	0.85	ND	1.3	0.20	
95-47-6	**o-Xylene**	**20**	5.6	0.70	**4.6**	1.3	0.16	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.71	ND	0.16	0.10	
98-82-8	Cumene	ND	5.6	0.62	ND	1.1	0.13	
103-65-1	**n-Propylbenzene**	**1.2**	5.6	0.58	**0.25**	1.1	0.12	**J**
622-96-8	**4-Ethyltoluene**	**2.4**	5.6	0.63	**0.49**	1.1	0.13	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**4.7**	5.6	0.67	**0.96**	1.1	0.14	**J**
98-83-9	alpha-Methylstyrene	ND	5.6	0.81	ND	1.2	0.17	
95-63-6	**1,2,4-Trimethylbenzene**	**8.0**	5.6	0.77	**1.6**	1.1	0.16	
100-44-7	Benzyl Chloride	ND	1.1	0.96	ND	0.22	0.19	
541-73-1	**1,3-Dichlorobenzene**	**4.3**	1.1	0.69	**0.72**	0.19	0.11	
106-46-7	**1,4-Dichlorobenzene**	**0.97**	1.1	0.62	**0.16**	0.19	0.10	**J**
135-98-8	sec-Butylbenzene	ND	5.6	0.65	ND	1.0	0.12	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	5.6	0.72	ND	1.0	0.13	
95-50-1	1,2-Dichlorobenzene	ND	1.1	0.73	ND	0.19	0.12	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.85	ND	0.58	0.088	
120-82-1	1,2,4-Trichlorobenzene	ND	1.1	0.85	ND	0.15	0.11	
91-20-3	**Naphthalene**	**1.2**	2.2	0.82	**0.22**	0.42	0.16	**J**
87-68-3	Hexachlorobutadiene	ND	1.1	1.0	ND	0.10	0.094	
98-06-6	tert-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	
104-51-8	n-Butylbenzene	ND	2.2	0.56	ND	0.41	0.10	

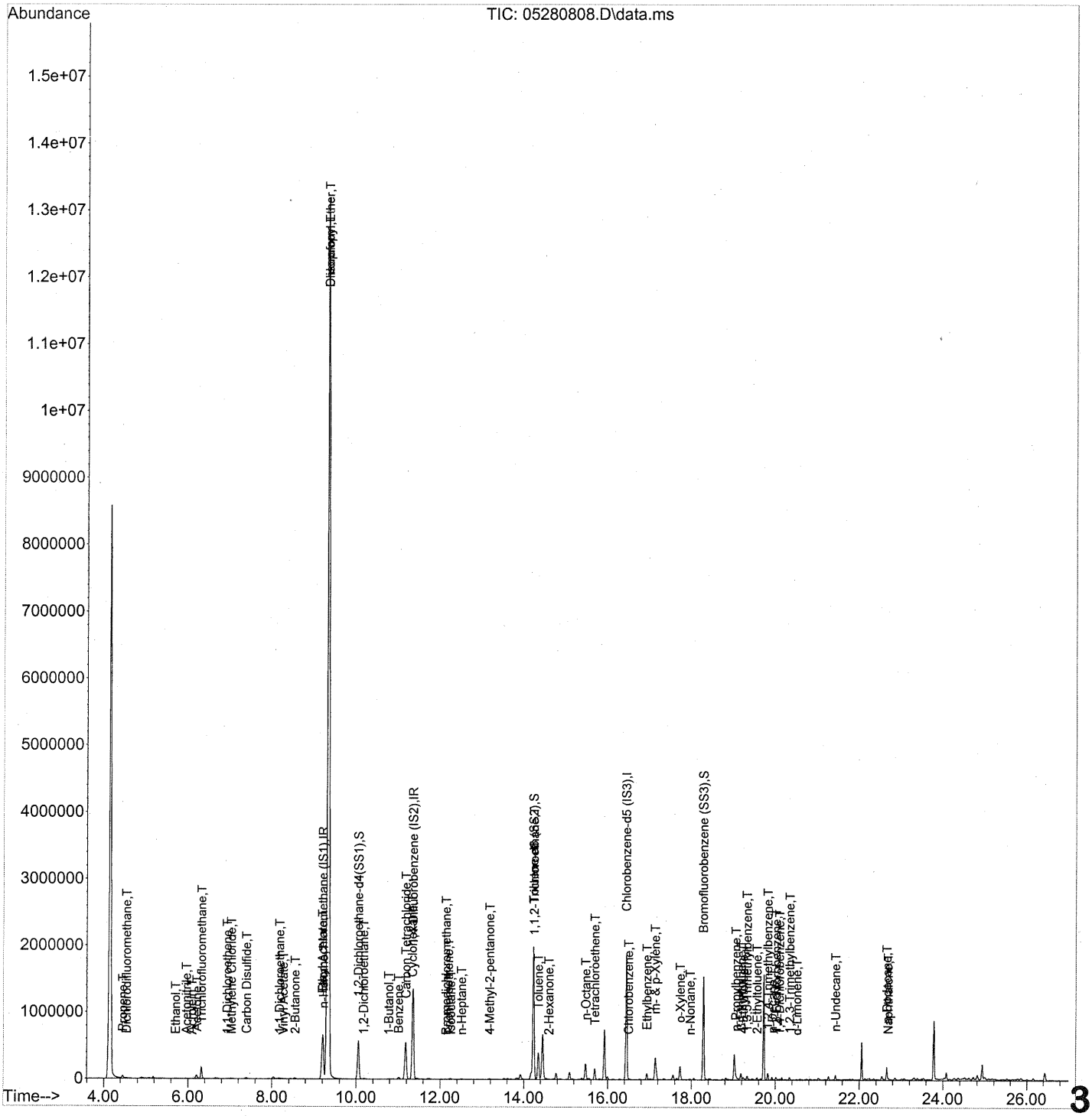
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: Cat Date: 6/5/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.21	130	369769	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.36	114	1533976	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	624528	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.06	65	527427	24.945	ng		-0.04
Spiked Amount 25.000			Recovery = 99.80%				✓
57) Toluene-d8 (SS2)	14.23	98	1559731	24.225	ng		-0.02
Spiked Amount 25.000			Recovery = 96.88%				✓
73) Bromofluorobenzene (SS3)	18.28	174	556292	25.986	ng		-0.01
Spiked Amount 25.000			Recovery = 103.96%				✓
Target Compounds							Qvalue
2) Propene	4.45	42	3710	0.130	ng	#	78
3) Dichlorodifluoromethane	4.54	85	6811	0.197	ng	#	95
4) Chloromethane	4.75	50	218	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	5.71	45	2360	0.122	ng		77
11) Acetonitrile	5.96	41	4828	0.086	ng	#	32
12) Acrolein	6.09	56	1471	0.105	ng		79
13) Acetone	6.21	58	23063	1.194	ng	#	85
14) Trichlorofluoromethane	6.32	101	166712	5.144	ng		99
15) Isopropanol	6.45	45	292	N.D.			
16) Acrylonitrile	6.64	53	208	N.D.	✓		
17) 1,1-Dichloroethene	6.93	96	1176	0.078	ng	#	81
18) tert-Butanol	7.02	59	97	N.D.	✓		
19) Methylene Chloride	7.03	84	3975	0.267	ng	#	43
20) Allyl Chloride	7.10	41	91	N.D.	✓		
21) Trichlorotrifluoroethane	7.28	151	636	N.D.	✓		
22) Carbon Disulfide	7.40	76	18681	0.312	ng		99
23) trans-1,2-Dichloroethene	8.04	61	1076	N.D.	✓		
24) 1,1-Dichloroethane	8.18	63	21450	0.678	ng		95
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.	✓		
26) Vinyl Acetate	8.27	86	222	~~0.070 ng~~	NR	#	1
27) 2-Butanone	8.55	72	4040	0.400	ng	#	1
28) cis-1,2-Dichloroethene	9.20	61	1025	N.D.	✓		
29) Diisopropyl Ether	9.33	87	1684284	~~126.582 ng~~	NR	#	1
30) Ethyl Acetate	9.20	61	1025	0.145	ng		93
31) n-Hexane	9.23	57	2729	0.065	ng	#	65

322

DA 6/4/08

Quantitation Report (QT Reviewed)

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Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.33	83	15796386	~~723.931~~	ng	see dil	96
34) Tetrahydrofuran	9.80	72	205	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.18	62	2268	0.091	ng	#	42
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	10.78	56	3908	0.155	ng	#	57
41) Benzene	11.01	78	27839	0.430	ng		98
42) Carbon Tetrachloride	11.18	117	519167	19.571	ng		99
43) Cyclohexane	11.34	84	5210	0.206	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	12.14	83	3638	0.191	ng		100
47) Trichloroethene	12.20	130	1774	0.088	ng		94
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.26	57	10229	0.099	ng		78
50) Methyl Methacrylate	0.00	100	0	N.D.			
51) n-Heptane	12.51	71	1509	0.098	ng	#	40
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.			
53) 4-Methyl-2-pentanone	13.18	58	3808	0.169	ng		81
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	132348	~~8.413~~	ng	NR#	7
58) Toluene	14.35	91	228357	3.127	ng		98
59) 2-Hexanone	14.60	43	6241	0.090	ng	#	69
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.31	43	1018	N.D.			
63) n-Octane	15.48	57	54219	2.455	ng		95
64) Tetrachloroethene	15.69	166	57989	2.684	ng		97
65) Chlorobenzene	16.50	112	3807	0.073	ng		84
66) Ethylbenzene	16.94	91	78384	0.944	ng		94
67) m- & p-Xylene	17.14	91	275410	5.007	ng		91
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	1415	N.D.			
70) o-Xylene	17.73	91	105393	1.790	ng		92
71) n-Nonane	17.97	43	7858	0.135	ng		78
72) 1,1,2,2-Tetrachloroethane	17.64	83	97	N.D.			
74) Cumene	18.45	105	3088	N.D.			
75) alpha-Pinene	18.93	93	1671	N.D.			
76) n-Propylbenzene	19.06	91	10819	0.109	ng	#	79
77) 3-Ethyltoluene	19.19	105	59179	0.629	ng		95
78) 4-Ethyltoluene	19.24	105	18518	0.218	ng		91
79) 1,3,5-Trimethylbenzene	19.33	105	31772	0.422	ng		90

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
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Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.51	118	98	N.D. ✓	
81) 2-Ethyltoluene	19.56	105	22344	0.245 ng	90
82) 1,2,4-Trimethylbenzene	19.82	105	54534	0.716 ng	98
83) n-Decane	19.93	57	16505	0.306 ng	87
84) Benzyl Chloride	20.10	91	95	N.D. ✓	
85) 1,3-Dichlorobenzene	20.02	146	18737	0.388 ng	98
86) 1,4-Dichlorobenzene	20.10	146	4076	0.087 ng	99
87) sec-Butylbenzene	20.15	105	619	N.D. ✓	
88) p-Isopropyltoluene	20.34	119	3552	N.D. ✓	
89) 1,2,3-Trimethylbenzene	20.34	105	16592	0.227 ng	95
90) 1,2-Dichlorobenzene	20.51	146	2076	N.D. ✓	
91) d-Limonene	20.52	68	1385	0.059 ng	87
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓	
93) n-Undecane	21.43	57	31521	0.558 ng	80
94) 1,2,4-Trichlorobenzene	22.55	184	192	N.D. ✓	
95) Naphthalene	22.69	128	11625	0.105 ng	94
96) n-Dodecane	22.66	57	67233	1.221 ng	80
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D. ✓	

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

Quantitation Report (Qedit)

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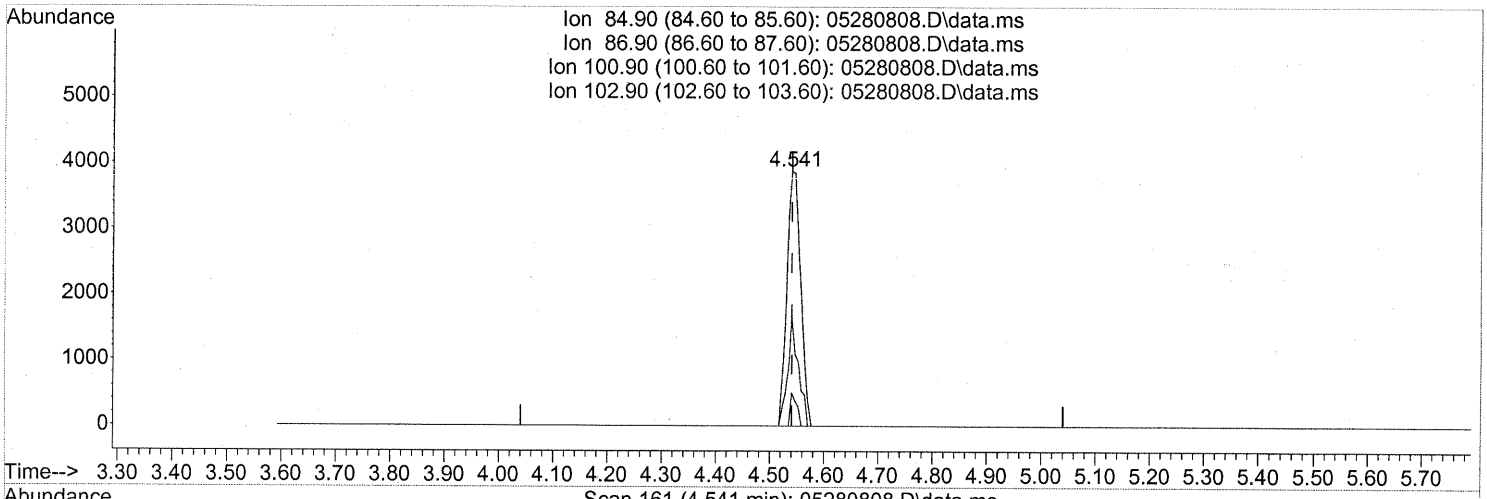
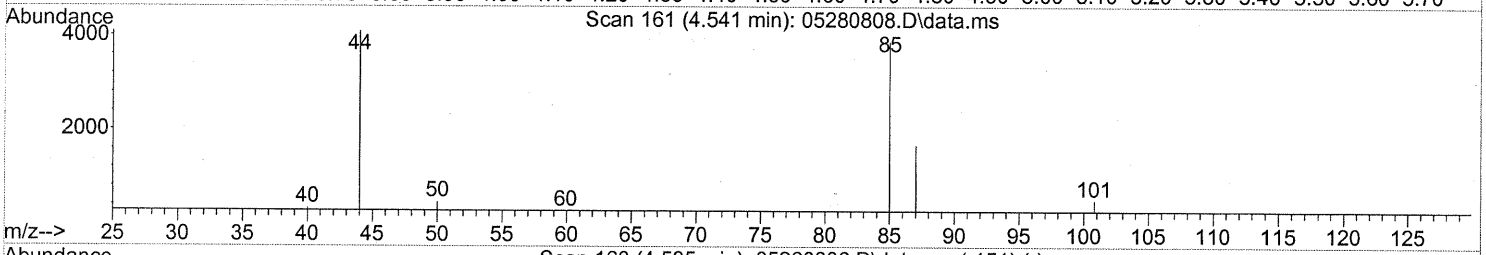
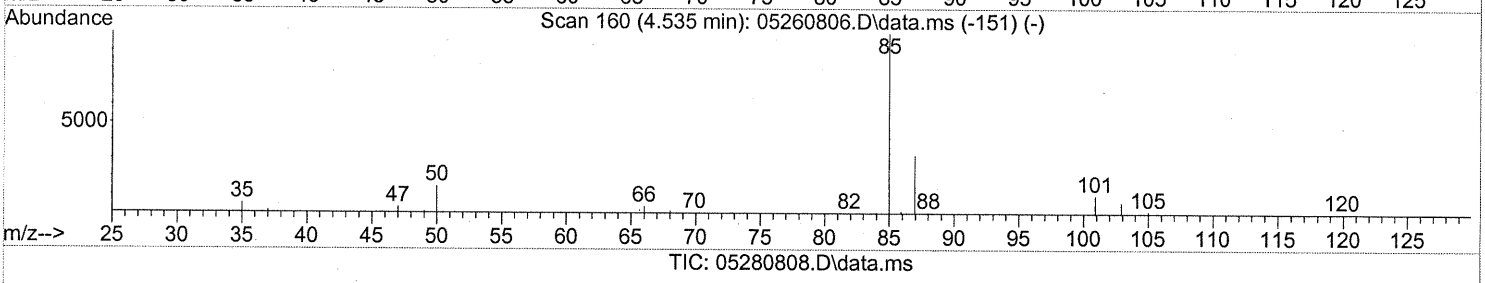
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280808.D\data.ms

(3) Dichlorodifluoromethane (T)

4.541min (-0.000) 0.20ng

response 6811

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	33.17
100.90	8.40	6.09
102.90	5.50	0.00

Quantitation Report (Qedit)

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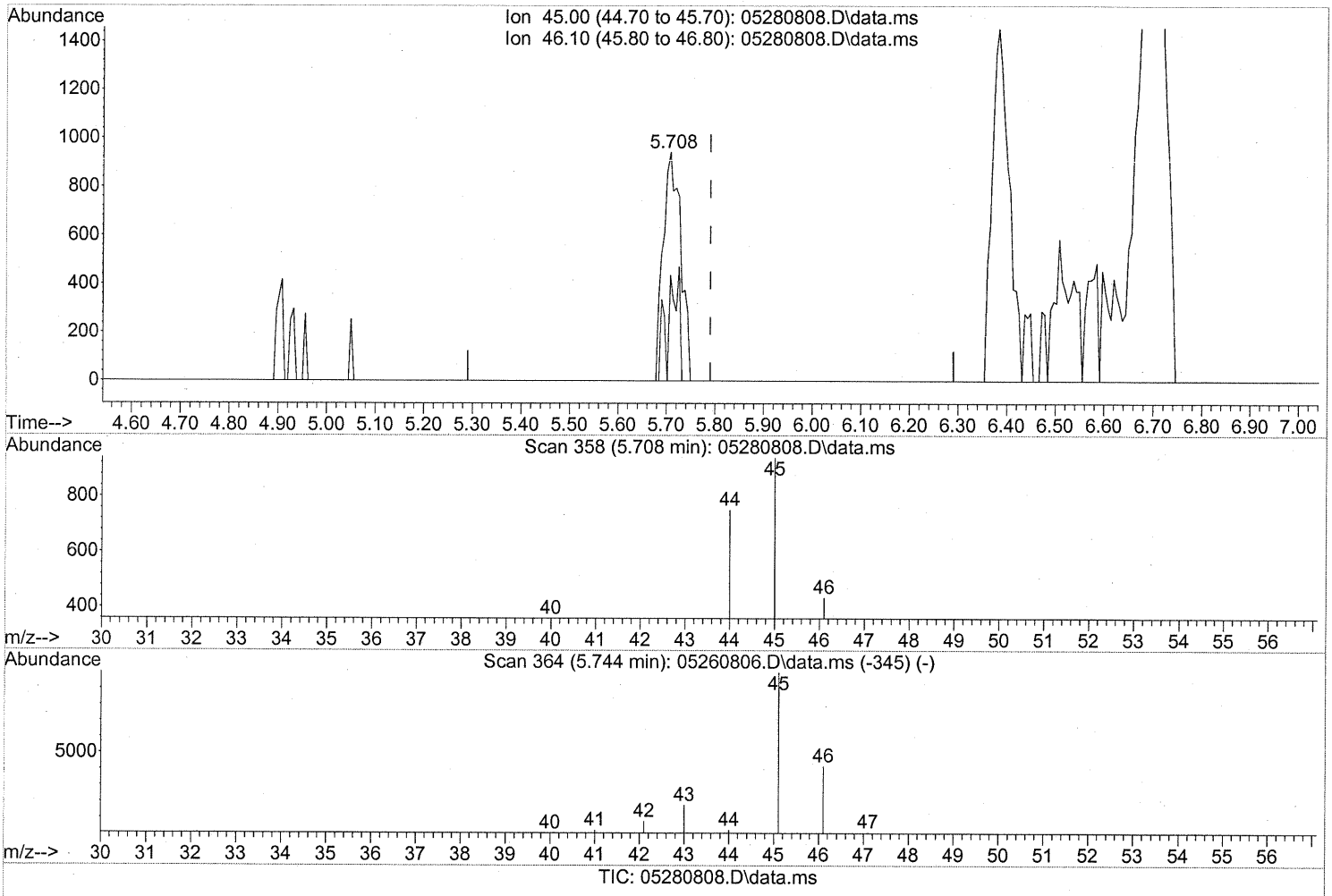
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 0.12ng

response 2360

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	23.05
0.00	0.00	0.00
0.00	0.00	0.00

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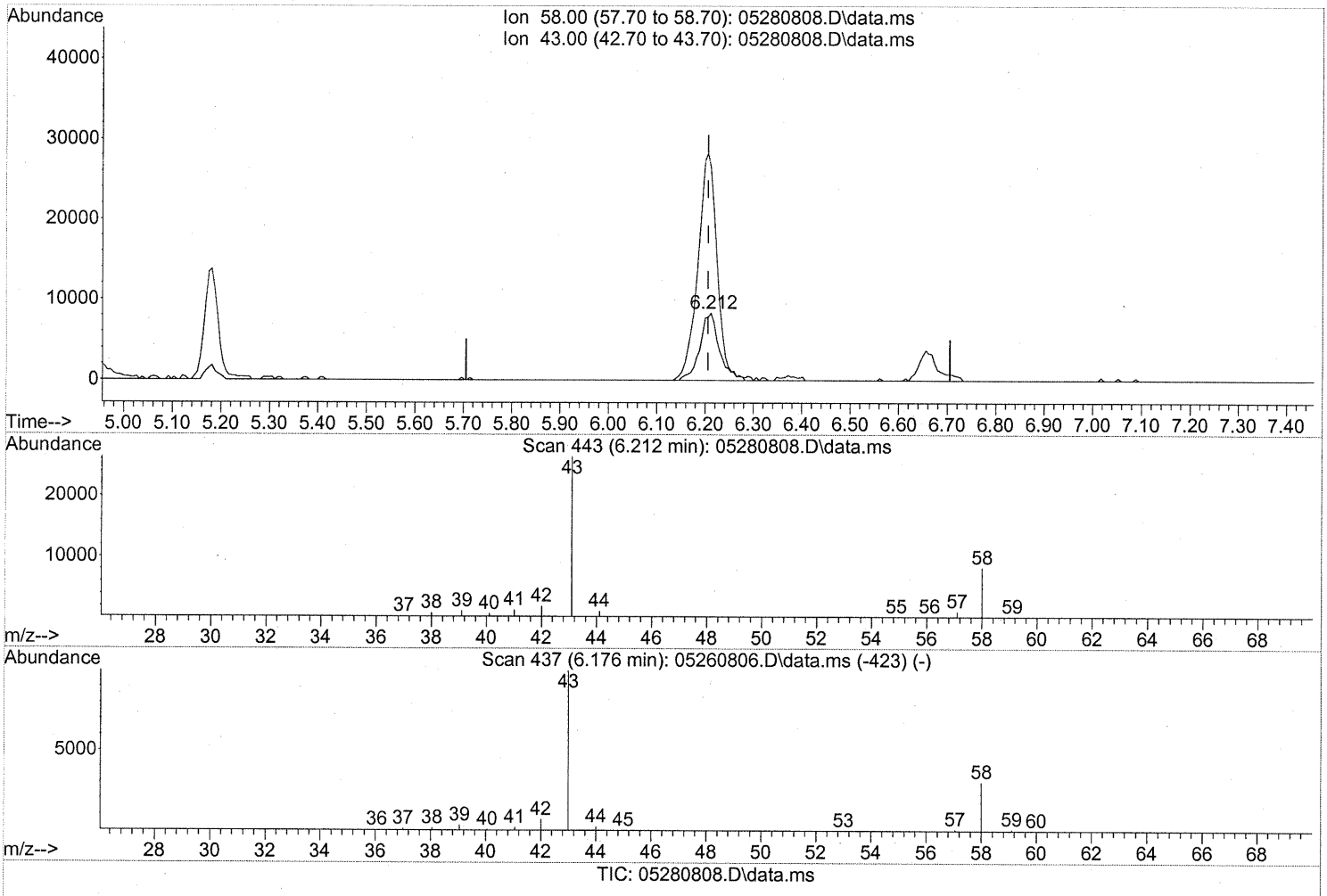

TIC: 05280808.D\data.ms

(13) Acetone (T)

6.212min (+0.006) 1.19ng

response 23063

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	335.40#
0.00	0.00	0.00
0.00	0.00	0.00

327

Quantitation Report (Qedit)

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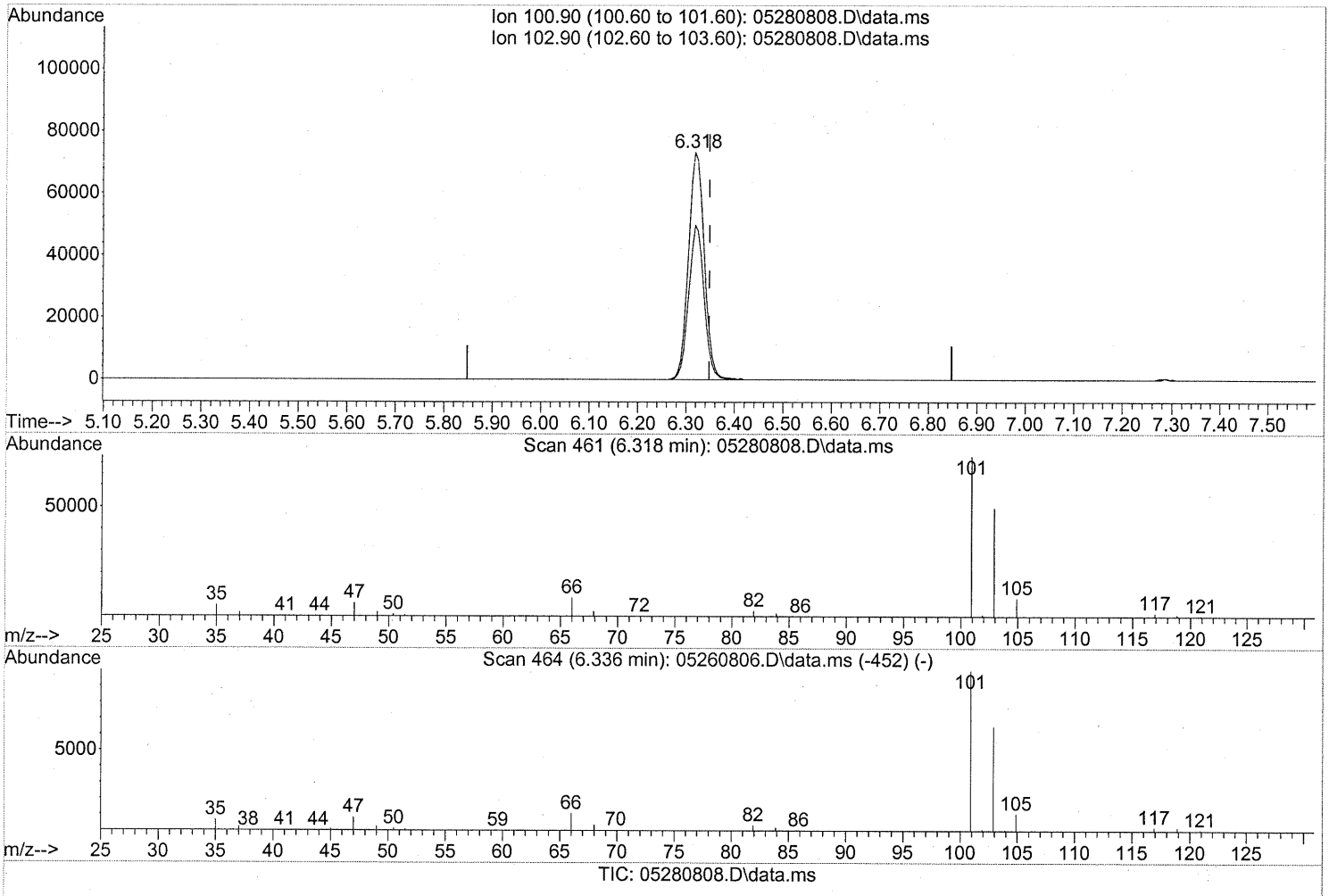

(14) Trichlorofluoromethane (T)

6.318min (-0.030) 5.14ng

response 166712

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	65.97
0.00	0.00	0.00
0.00	0.00	0.00

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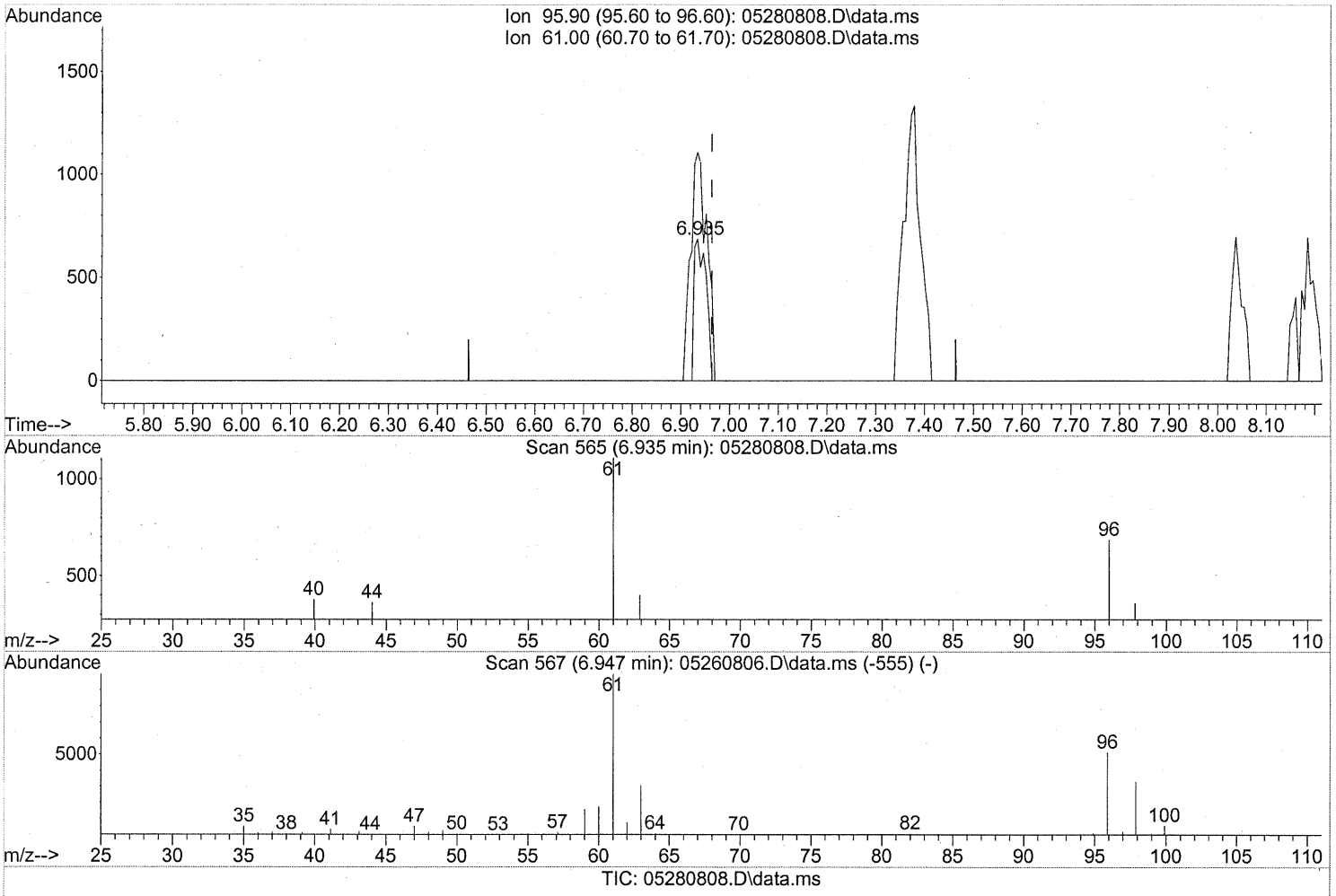

TIC: 05280808.D\data.ms

(17) 1,1-Dichloroethene (T)

6.935min (-0.030) 0.08ng

response 1176

Ion	Exp%	Act%
95.90	100	100
61.00	189.30	217.43#
0.00	0.00	0.00
0.00	0.00	0.00

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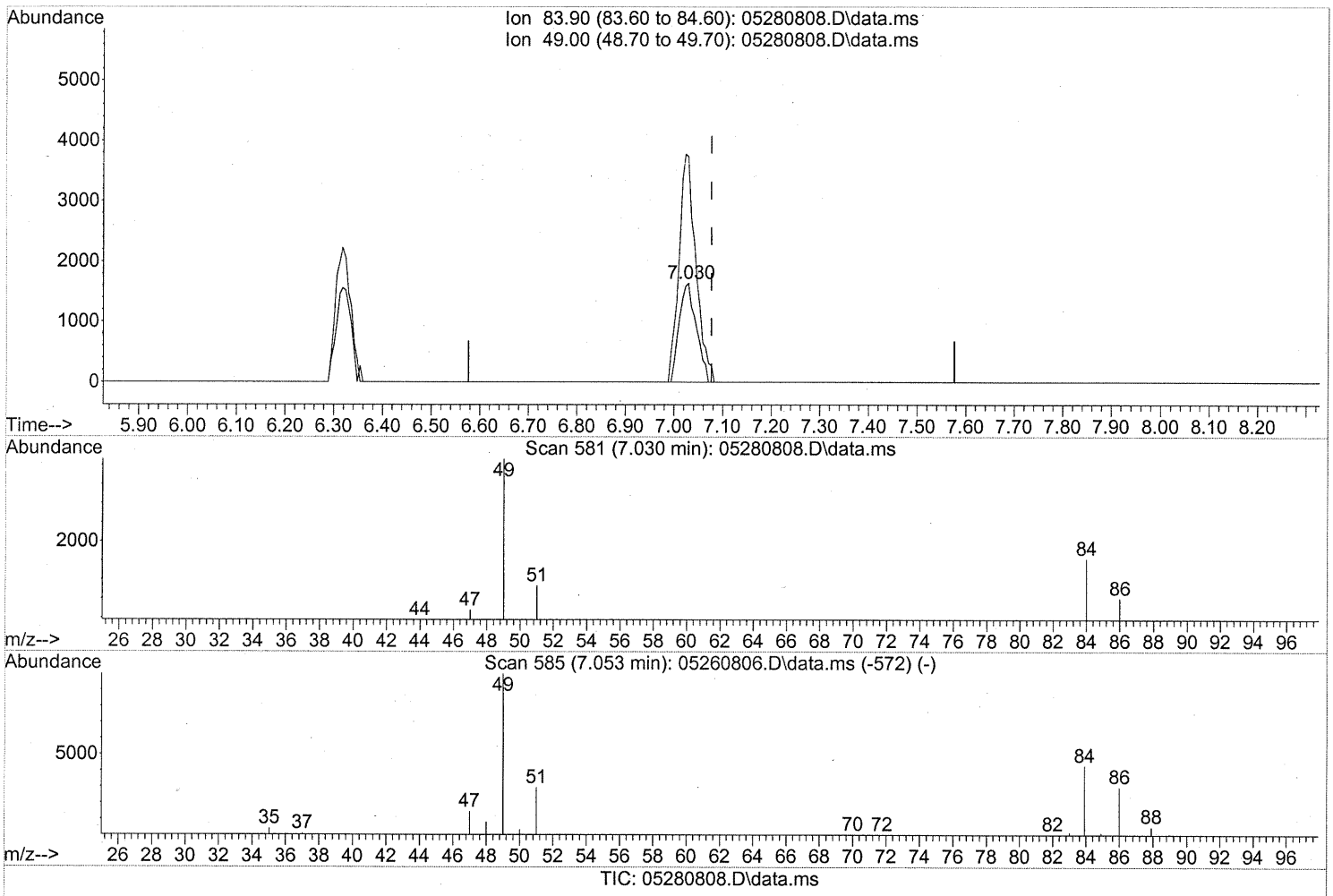

TIC: 05280808.D\data.ms

(19) Methylene Chloride (T)

7.030min (-0.047) 0.27ng

response 3975

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	229.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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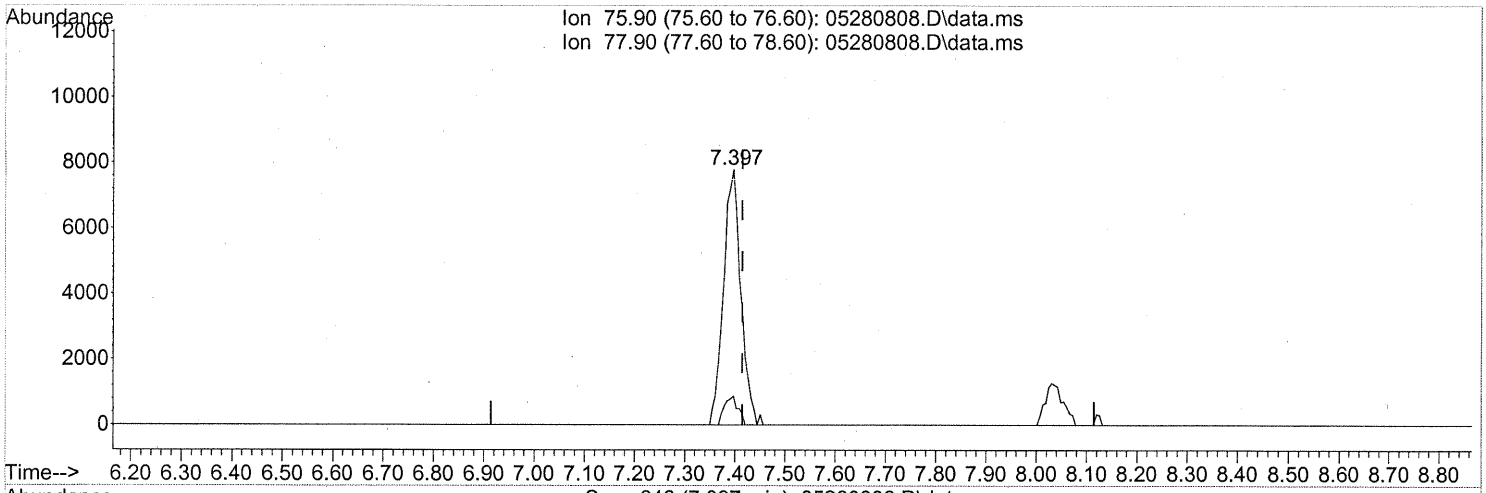

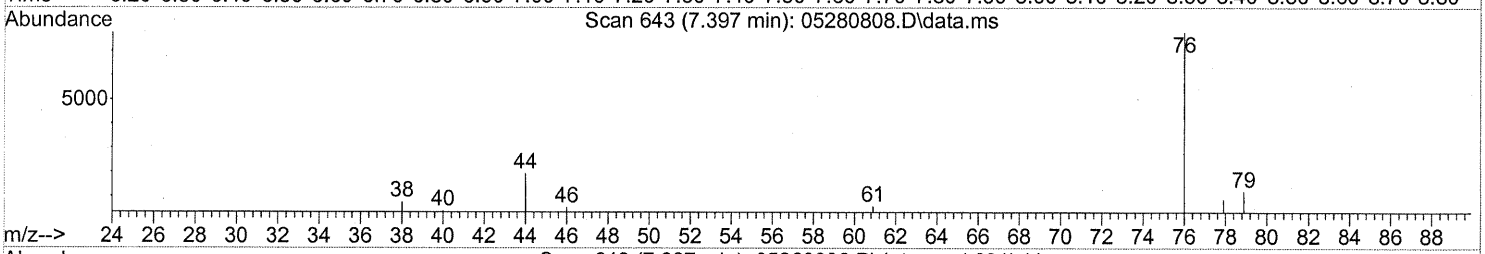

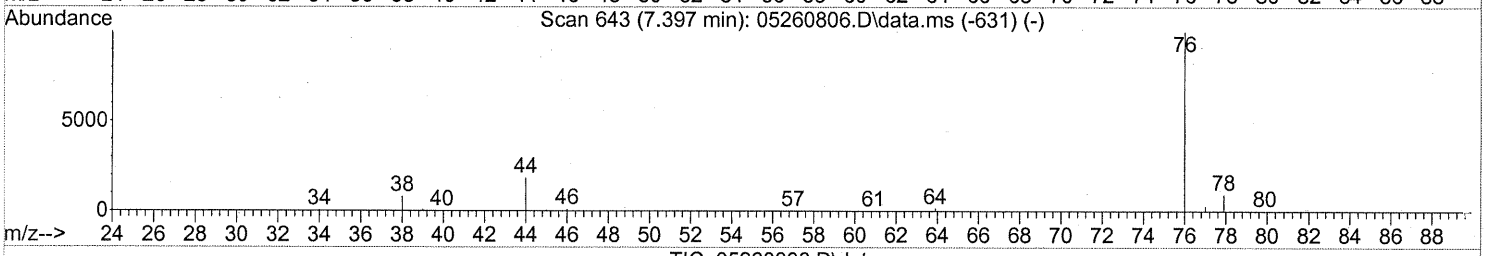

TIC: 05280808.D\data.ms

(22) Carbon Disulfide (T)

7.397min (-0.018) 0.31ng

response 18681

Ion	Exp%	Act%
75.90	100	100
77.90	9.10	8.78
0.00	0.00	0.00
0.00	0.00	0.00

331

Quantitation Report (Qedit)

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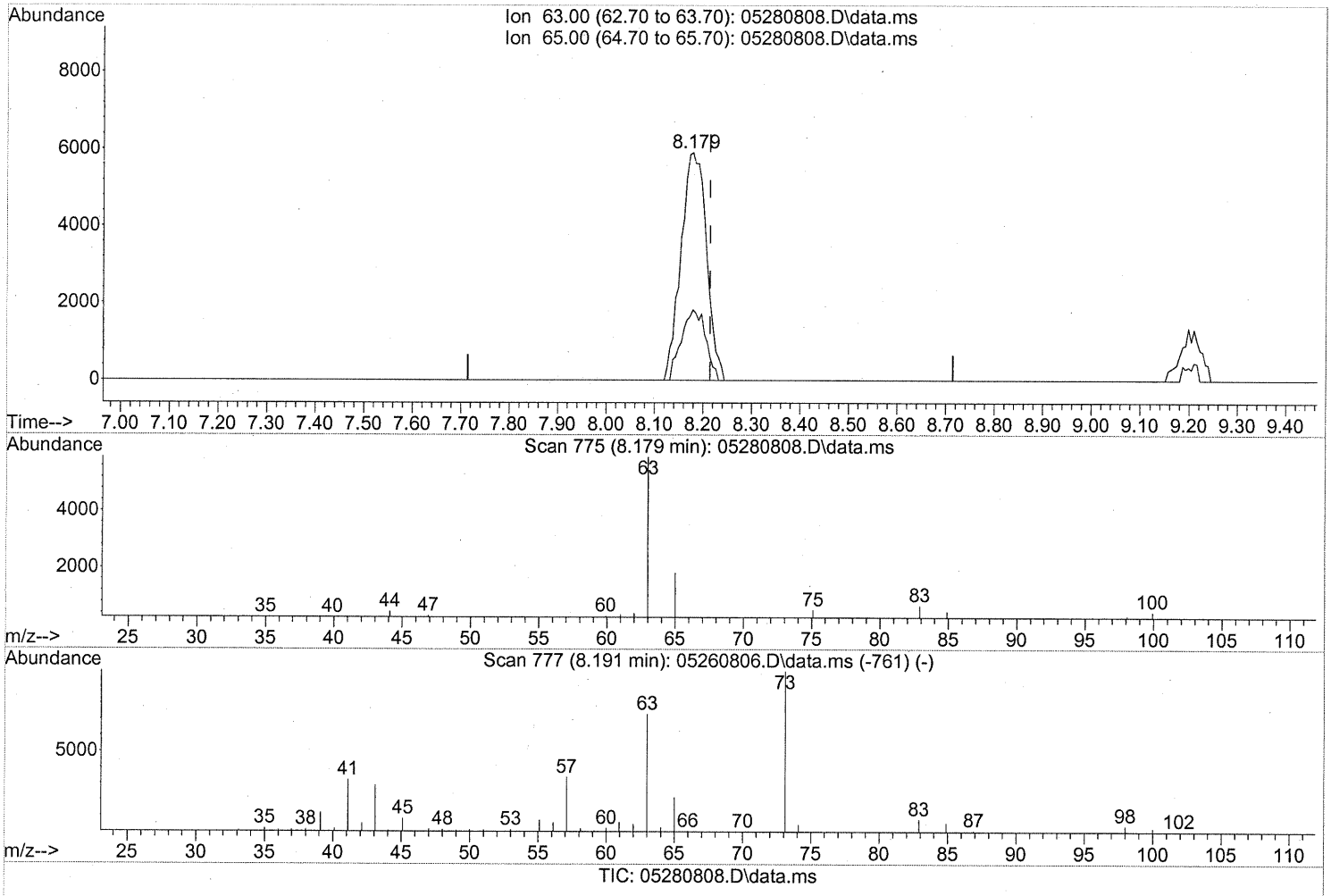


TIC: 05280808.D\data.ms

(24) 1,1-Dichloroethane (T)

8.179min (-0.036) 0.68ng

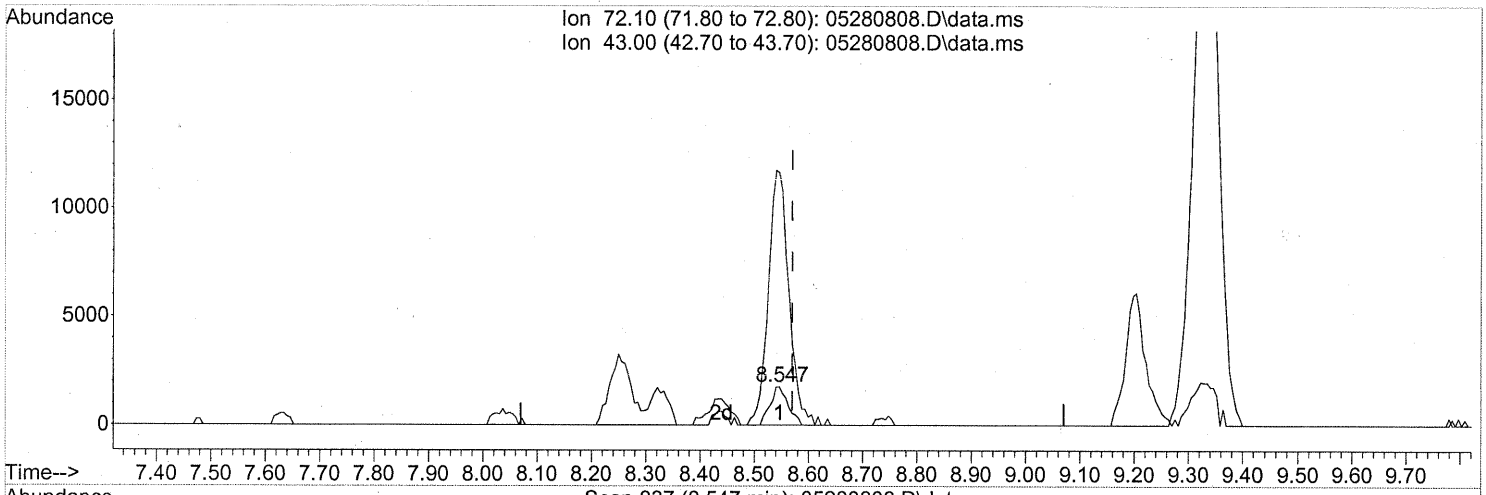
response 21450

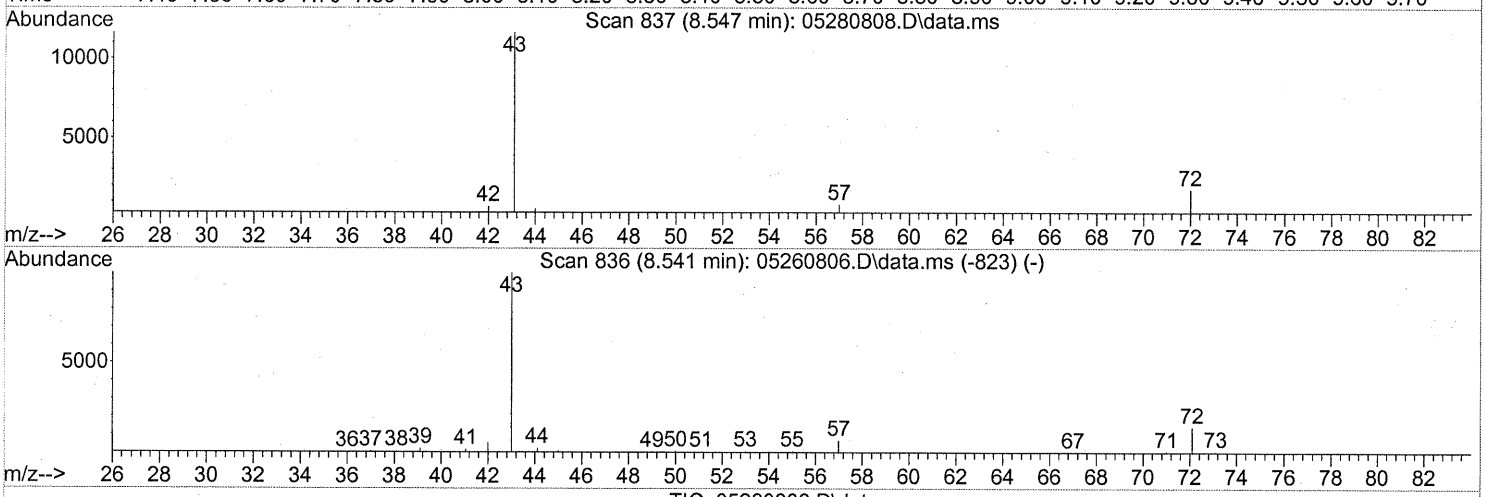
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	29.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration





TIC: 05280808.D\data.ms

(27) 2-Butanone (T)

8.547min (-0.024) 0.40ng

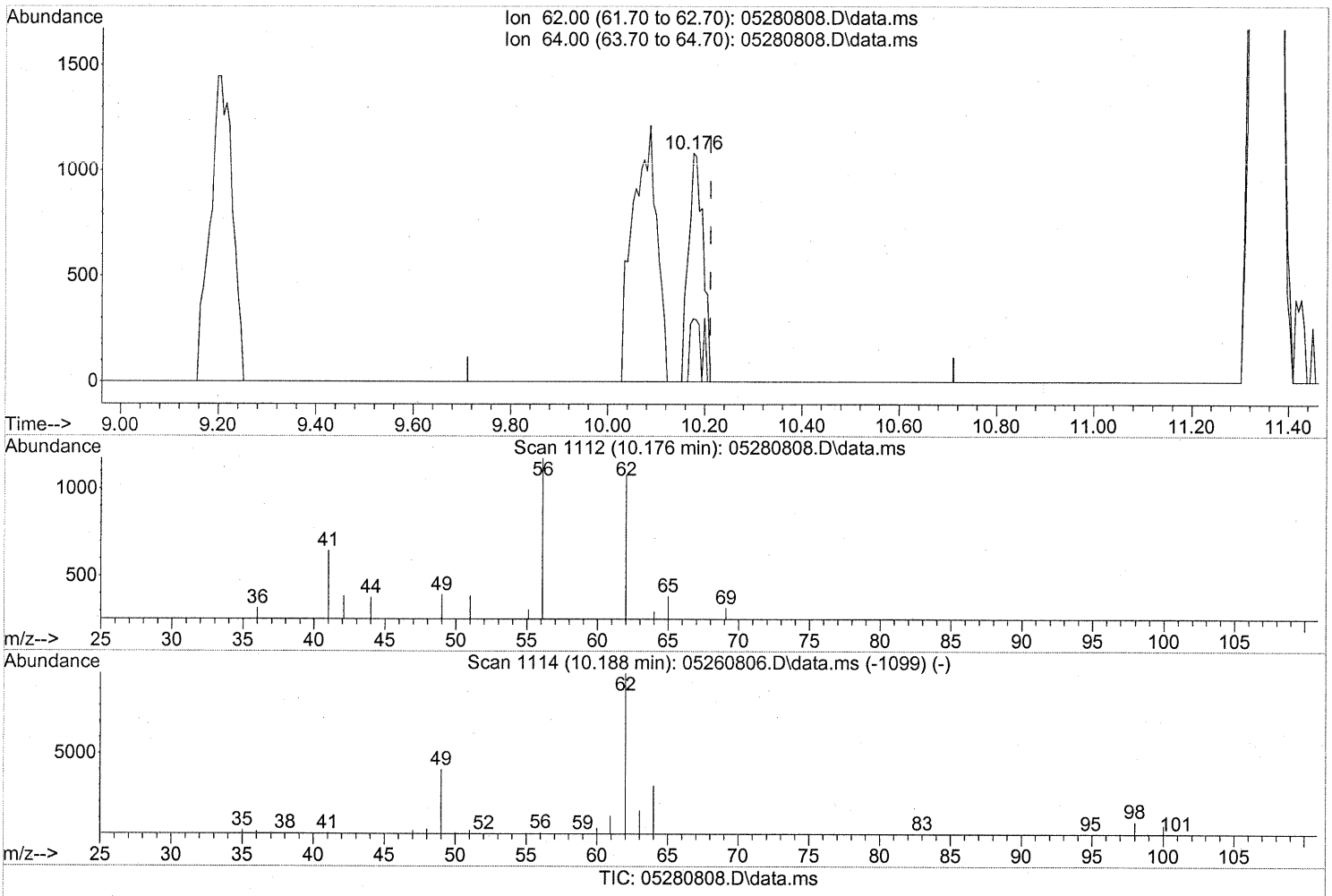
response 4040

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	770.50#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(36) 1,2-Dichloroethane (T)

10.176min (-0.036) 0.09ng

response 2268

Ion	Exp%	Act%
62.00	100	100
64.00	32.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
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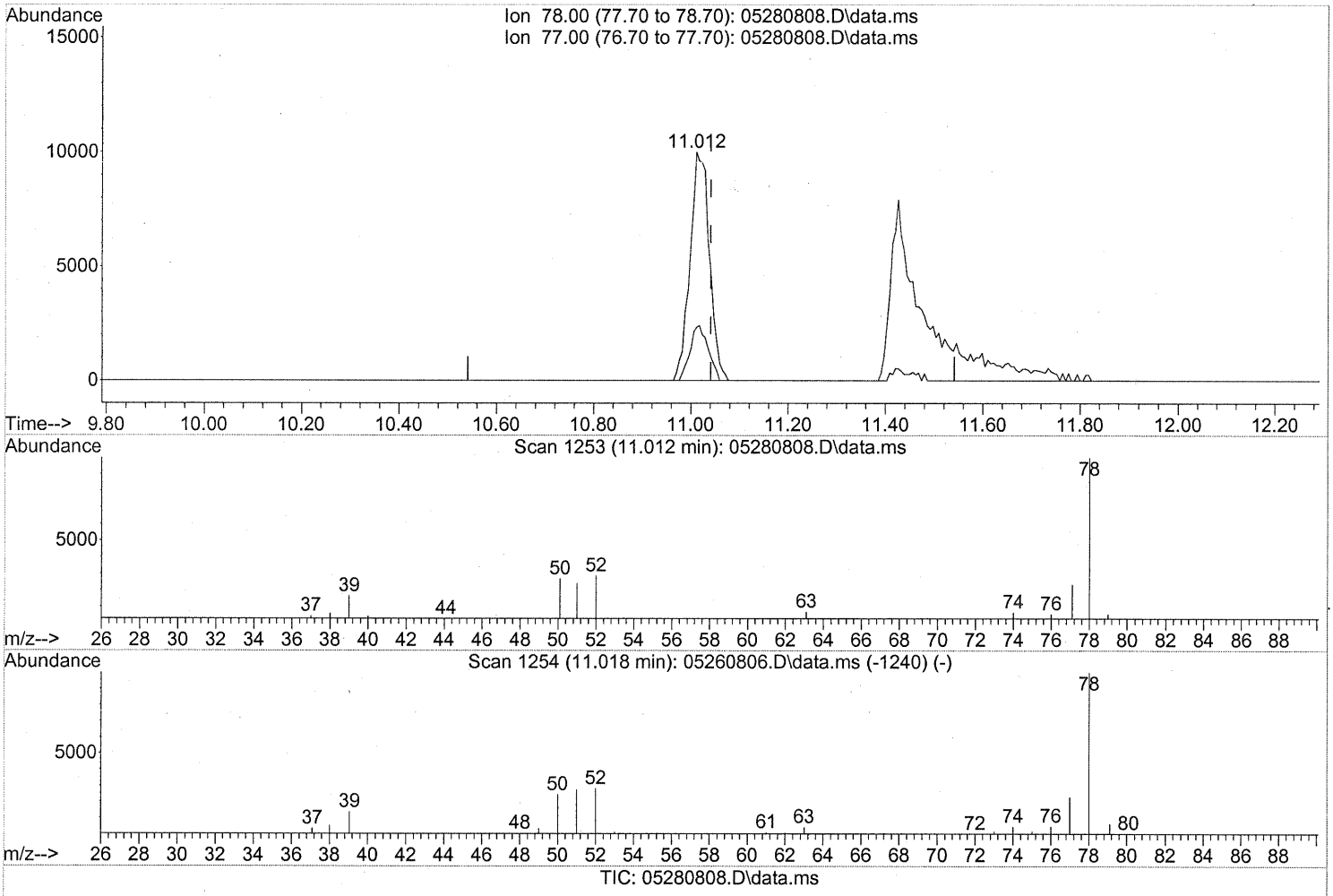
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(41) Benzene (T)

11.012min (-0.030) 0.43ng

response 27839

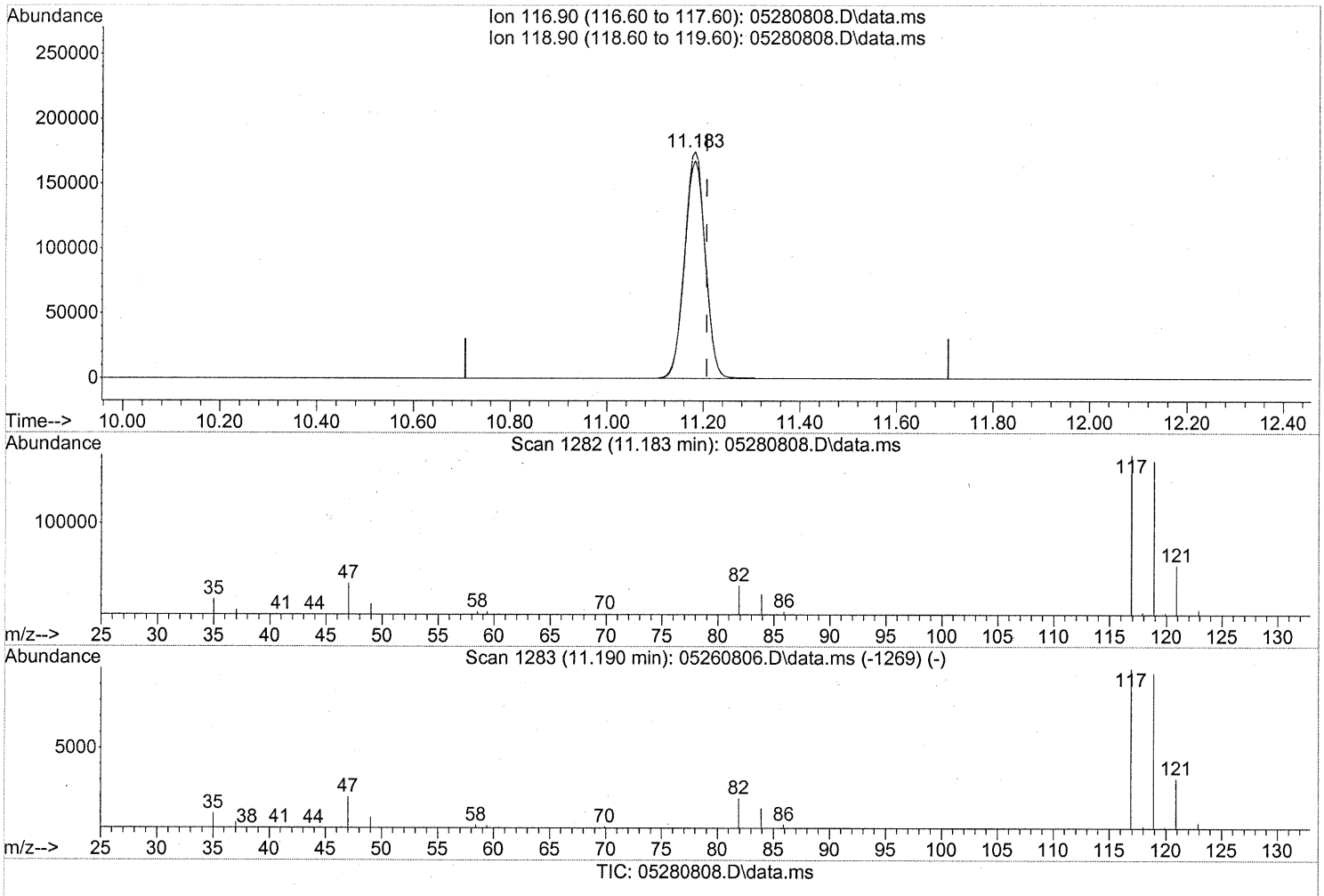
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.48
0.00	0.00	0.00
0.00	0.00	0.00

335

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(42) Carbon Tetrachloride (T)

11.183min (-0.024) 19.57ng

response 519167

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.45
0.00	0.00	0.00
0.00	0.00	0.00

336

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
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Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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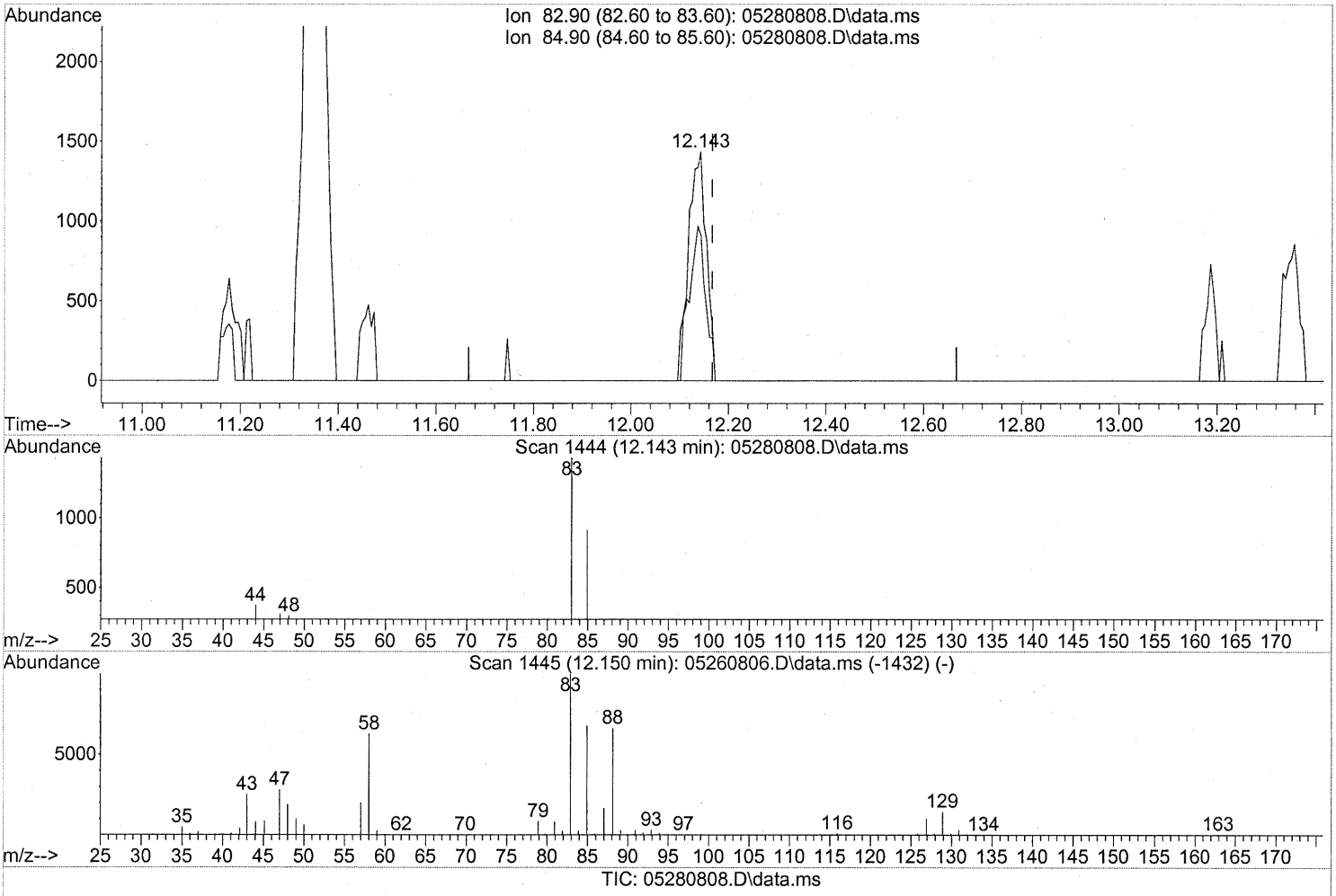
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(46) Bromodichloromethane (T)

12.143min (-0.024) 0.19ng

response 3638

Ion	Exp%	Act%
82.90	100	100
84.90	62.30	62.59
0.00	0.00	0.00
0.00	0.00	0.00

337

Quantitation Report (Qedit)

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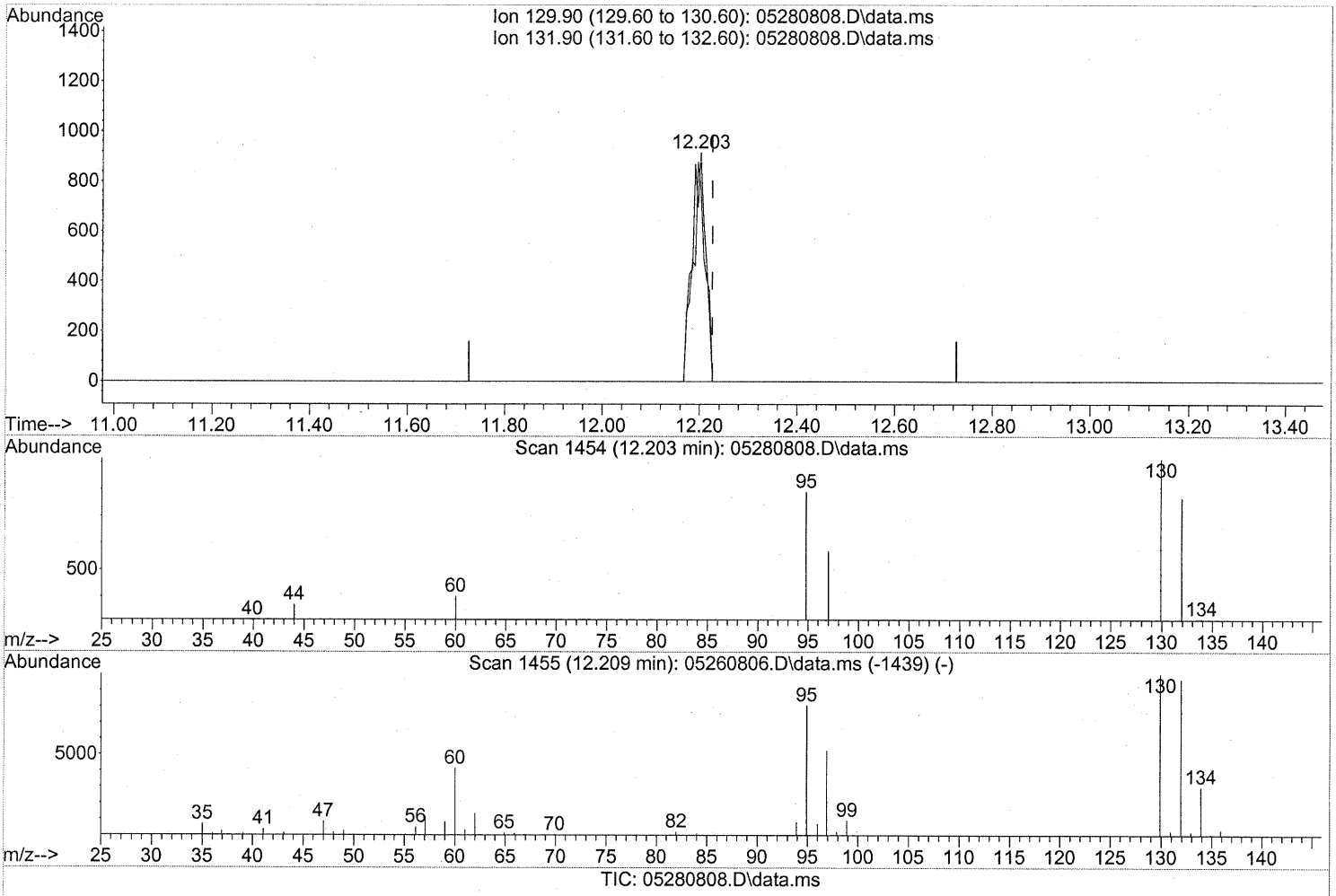
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.203min (-0.024) 0.09ng

response 1774

Ion	Exp%	Act%
129.90	100	100
131.90	95.10	89.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
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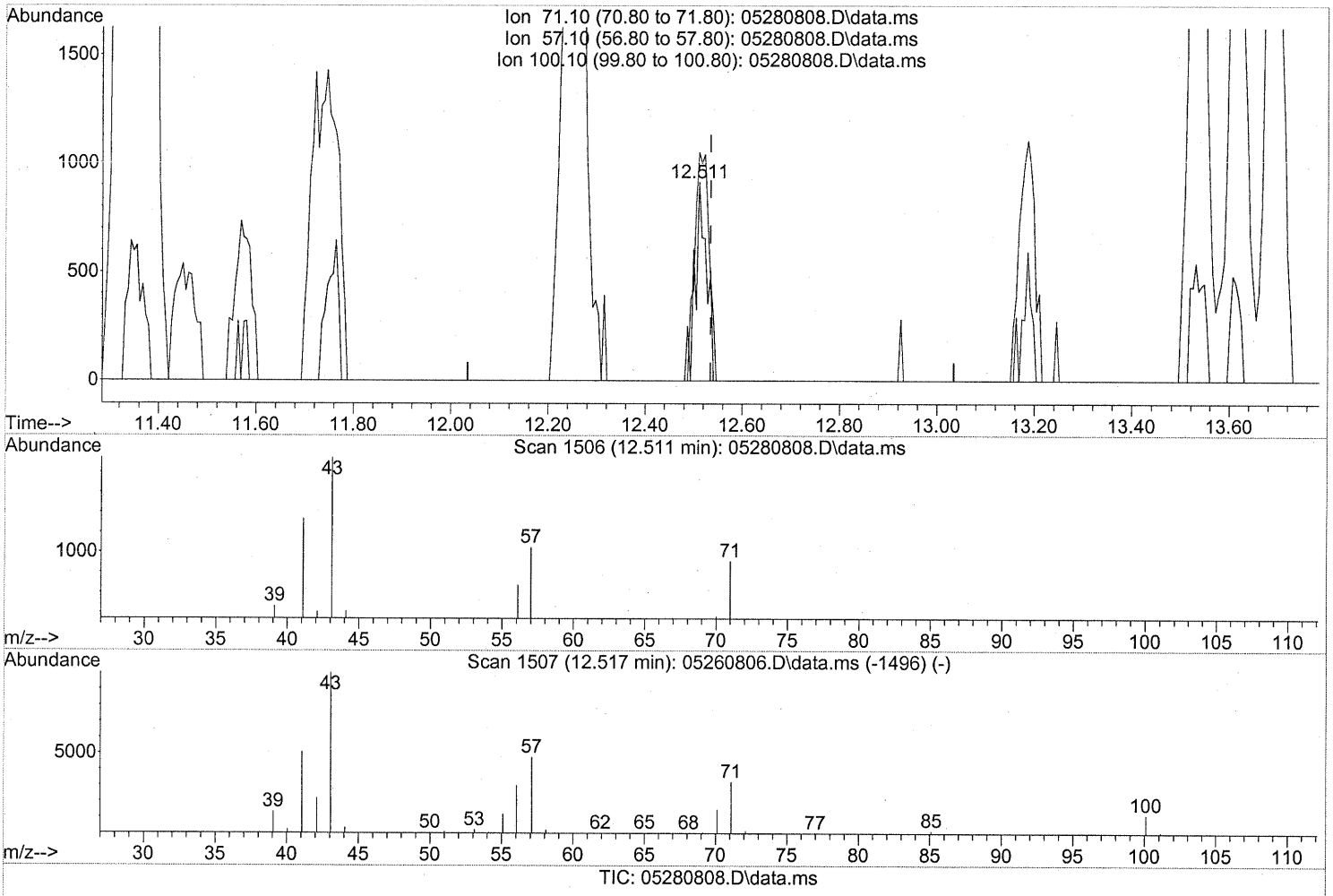

TIC: 05280808.D\data.ms

(51) n-Heptane (T)

12.511min (-0.024) 0.10ng

response 1509

Ion	Exp%	Act%
71.10	100	100
57.10	88.70	145.99#
100.10	28.80	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

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Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
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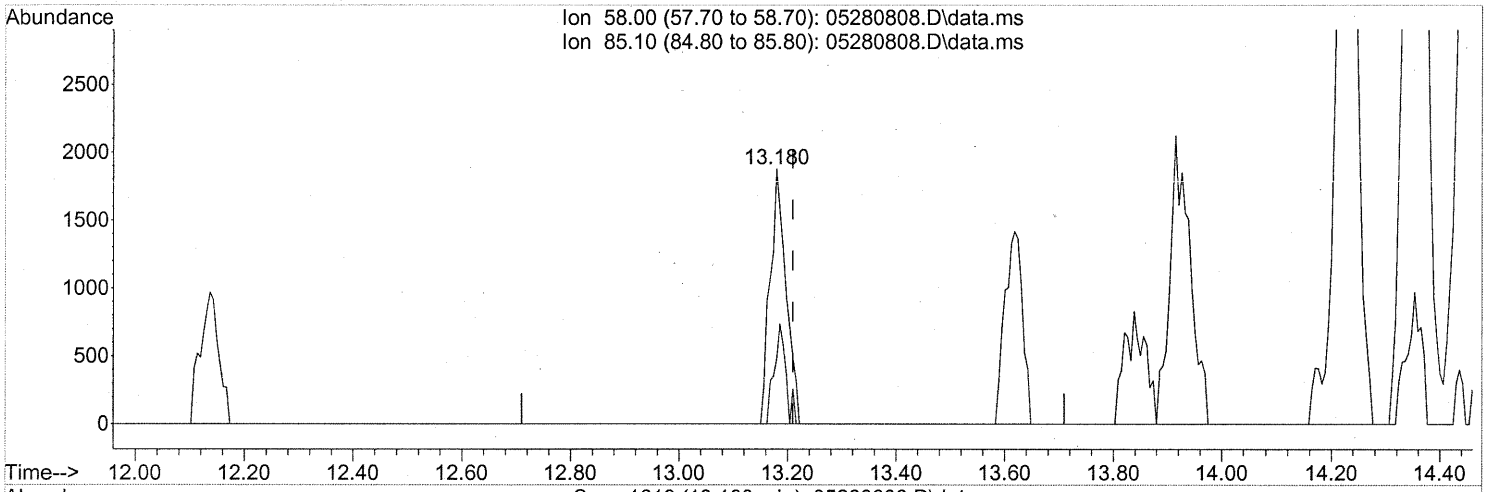

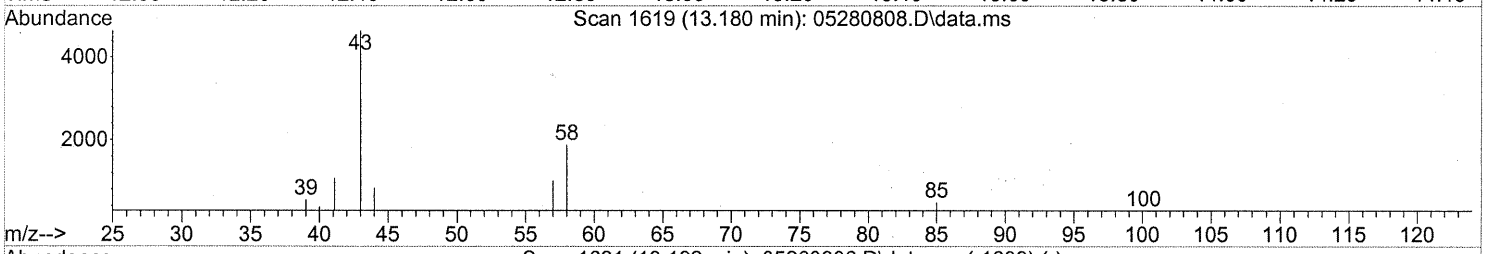

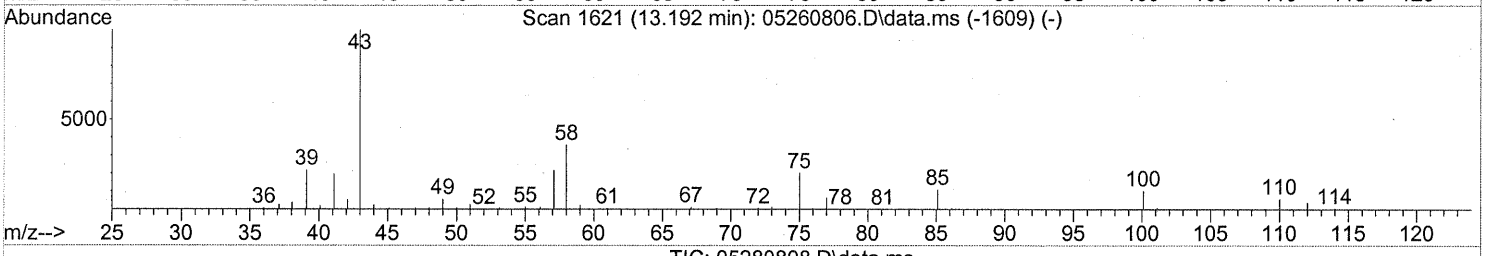

TIC: 05280808.D\data.ms

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

13.180min (-0.030) 0.17ng

response 3808

Ion	Exp%	Act%
58.00	100	100
85.10	40.70	28.65
0.00	0.00	0.00
0.00	0.00	0.00

340

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
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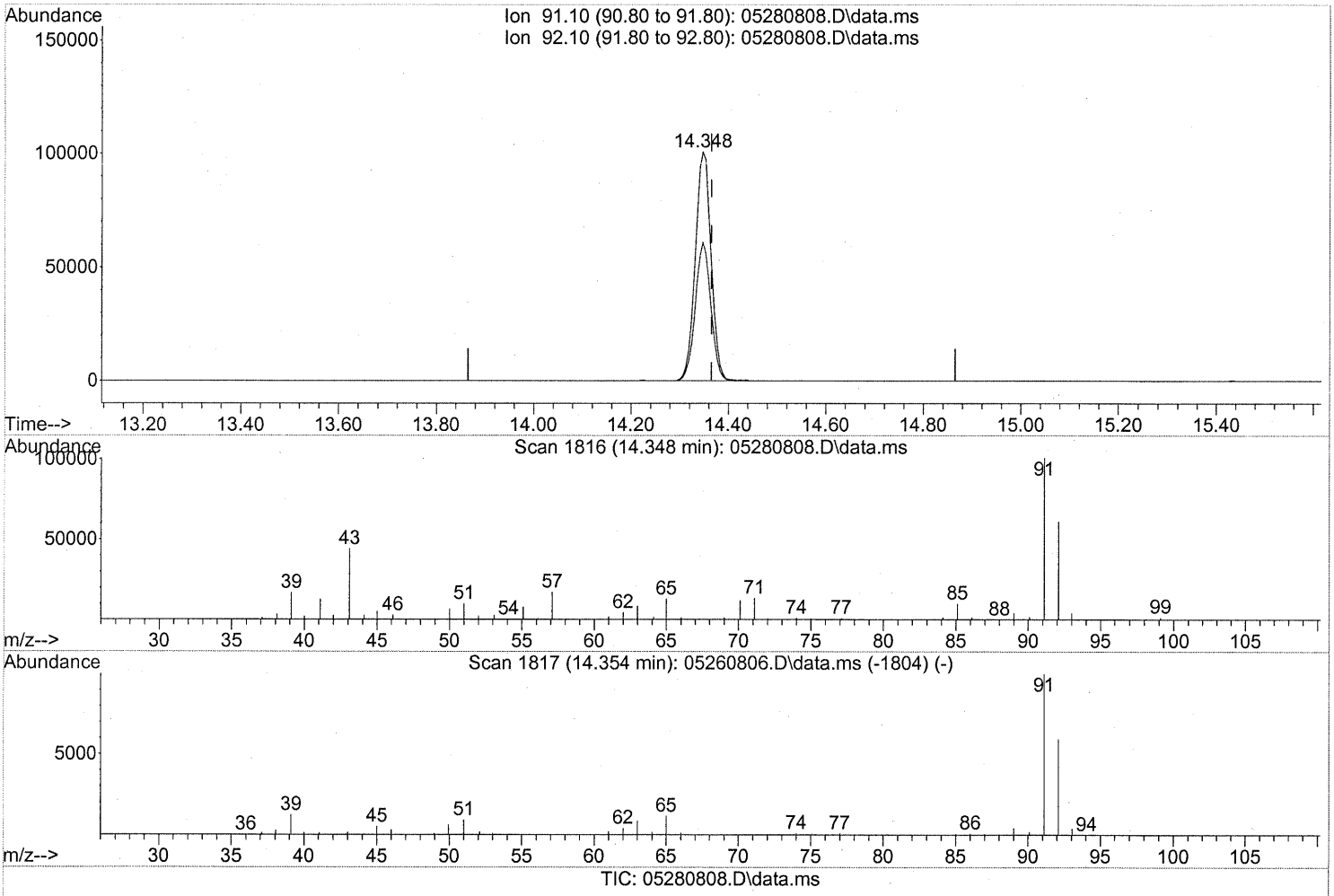
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 3.13ng

response 228357

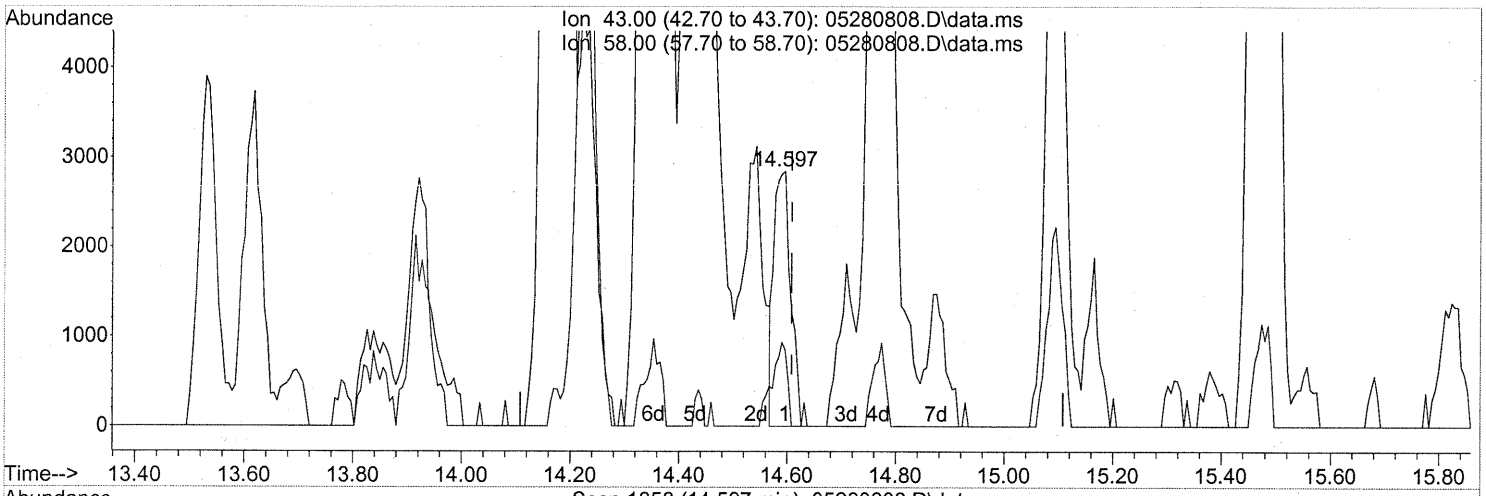
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.64
0.00	0.00	0.00
0.00	0.00	0.00

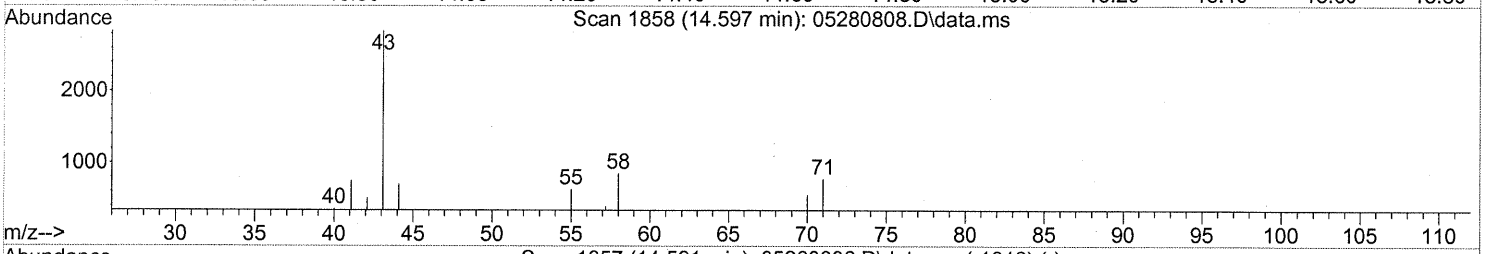
341

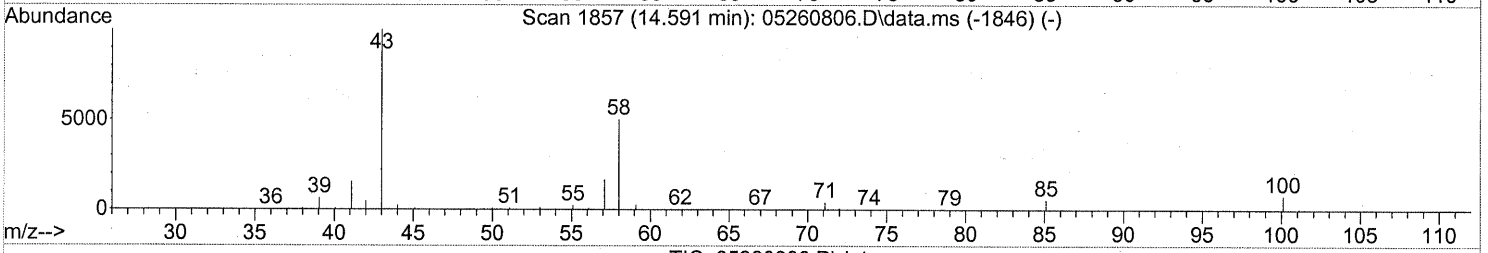
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280808.D\data.ms

(59) 2-Hexanone (T)

14.597min (-0.012) 0.09ng

response 6241

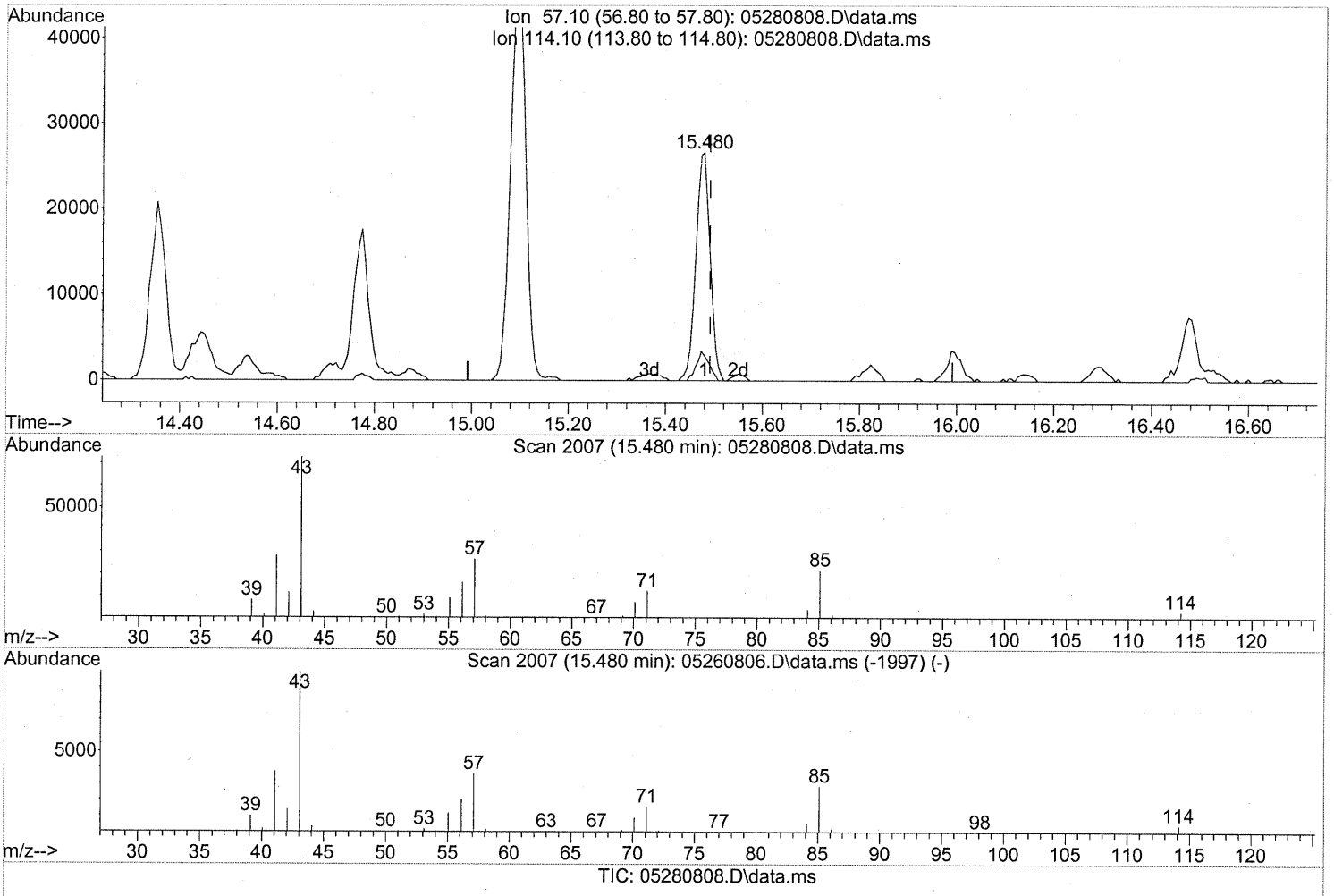
Ion	Exp%	Act%
43.00	100	100
58.00	50.90	29.48#
0.00	0.00	0.00
0.00	0.00	0.00

342

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(63) n-Octane (T)

15.480min (-0.012) 2.46ng

response 54219

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.45
0.00	0.00	0.00
0.00	0.00	0.00

343

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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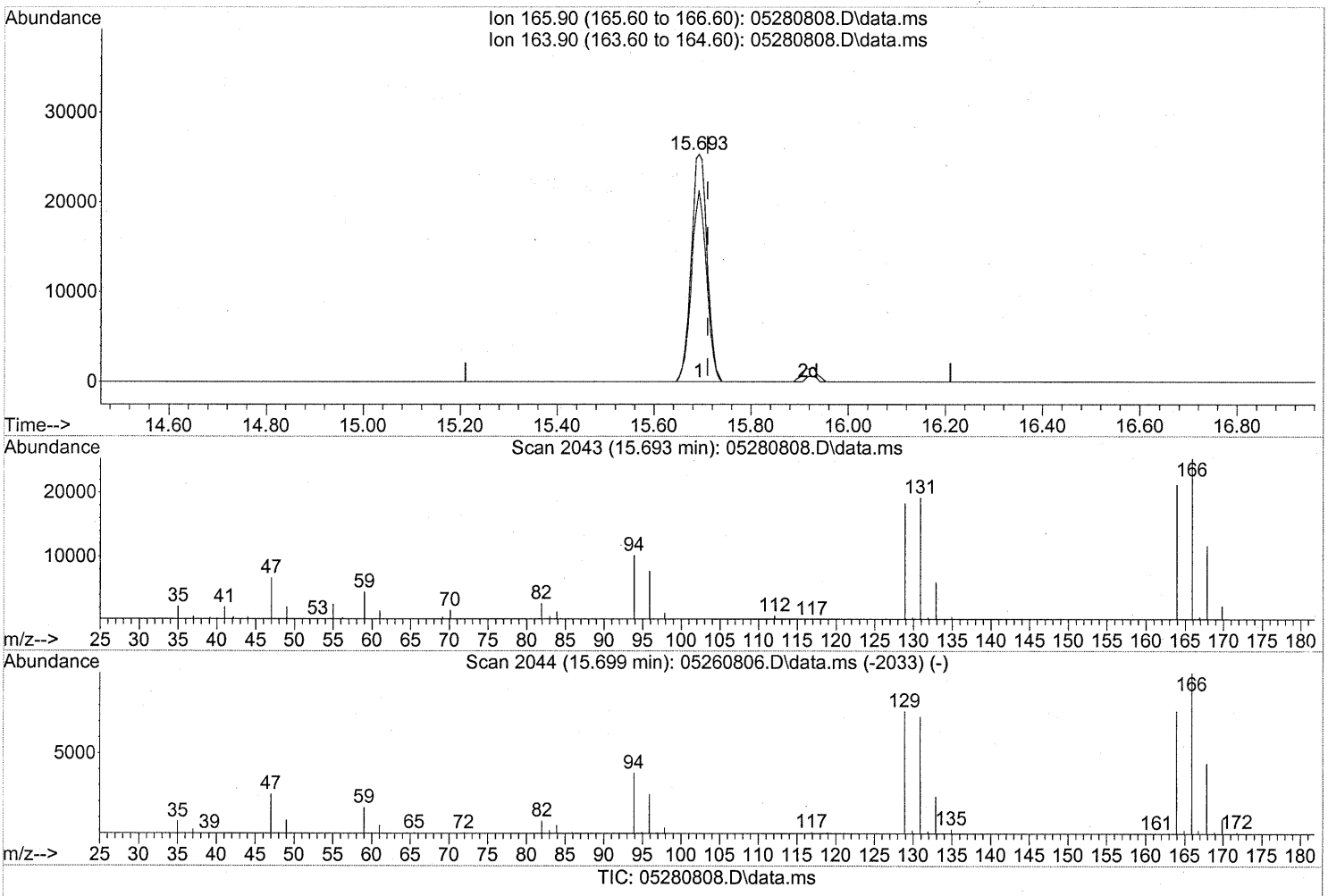
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 2.68ng

response 57989

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	79.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
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Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
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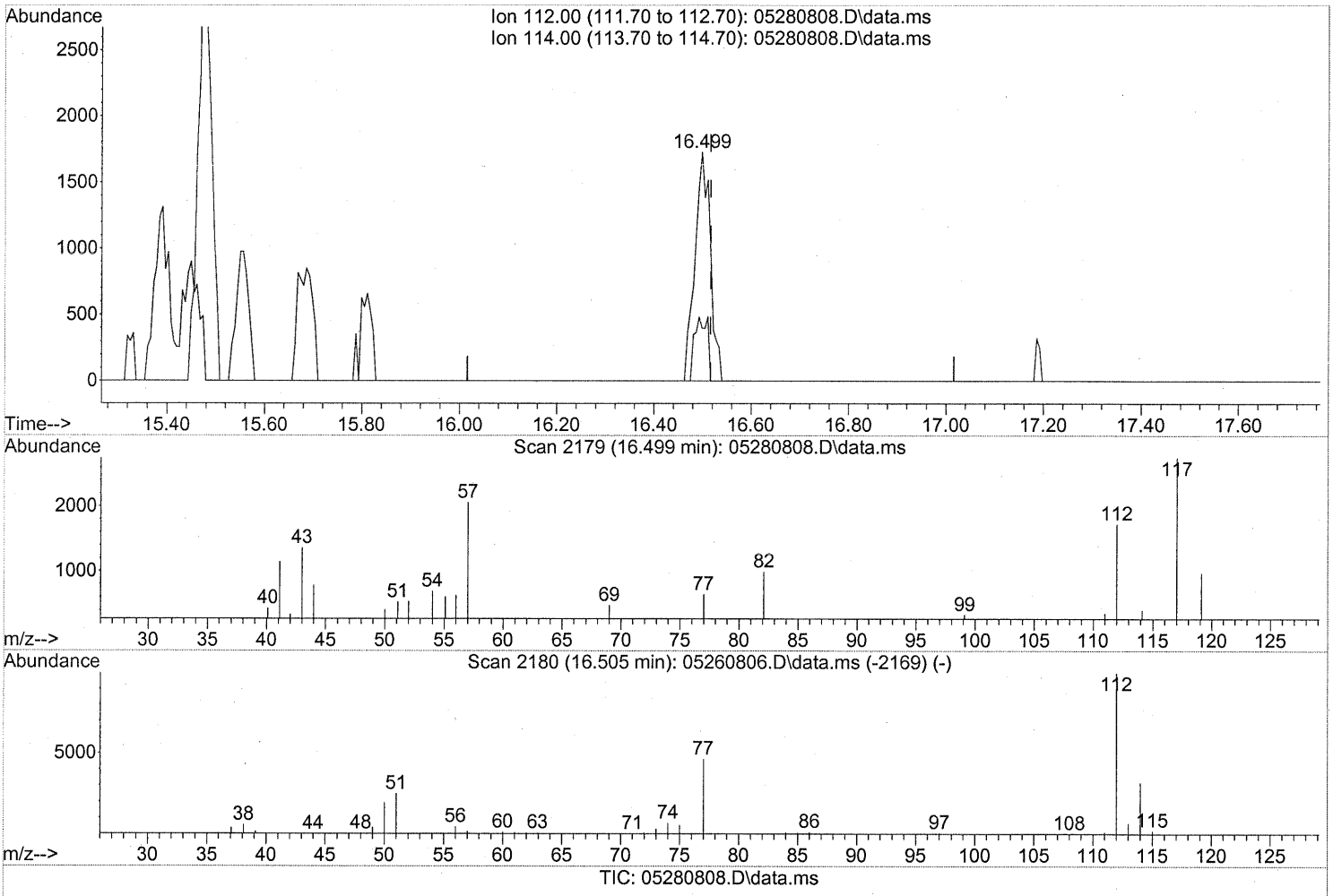
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(65) Chlorobenzene (T)

16.499min (-0.018) 0.07ng

response 3807

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	23.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
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Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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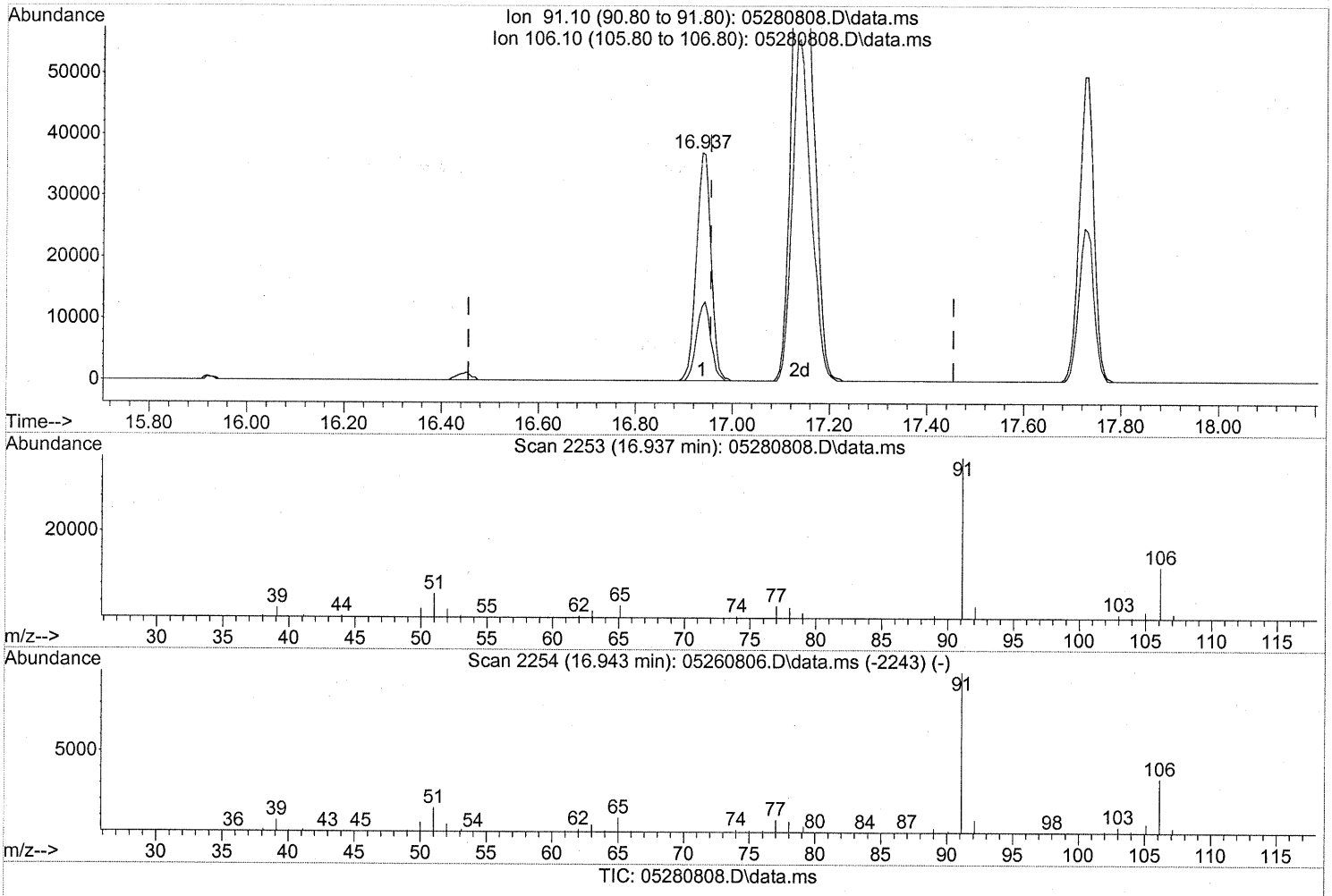

TIC: 05280808.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.94ng

response 78384

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	33.36
0.00	0.00	0.00
0.00	0.00	0.00

346

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

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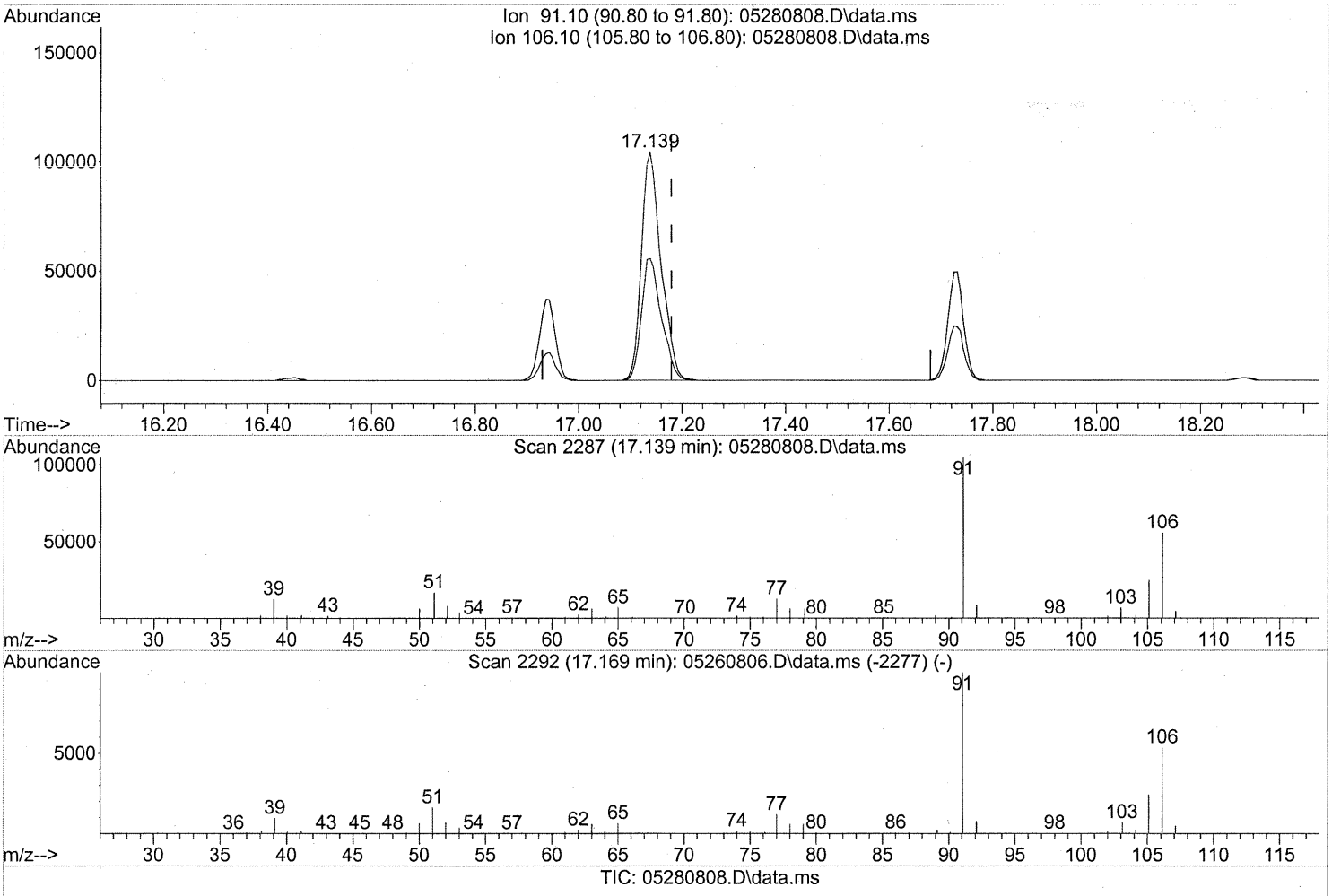

TIC: 05280808.D\data.ms

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

17.139min (-0.042) 5.01ng

response 275410

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	54.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
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Misc : ENSR SG56B-05D (-3.8, 3.5)
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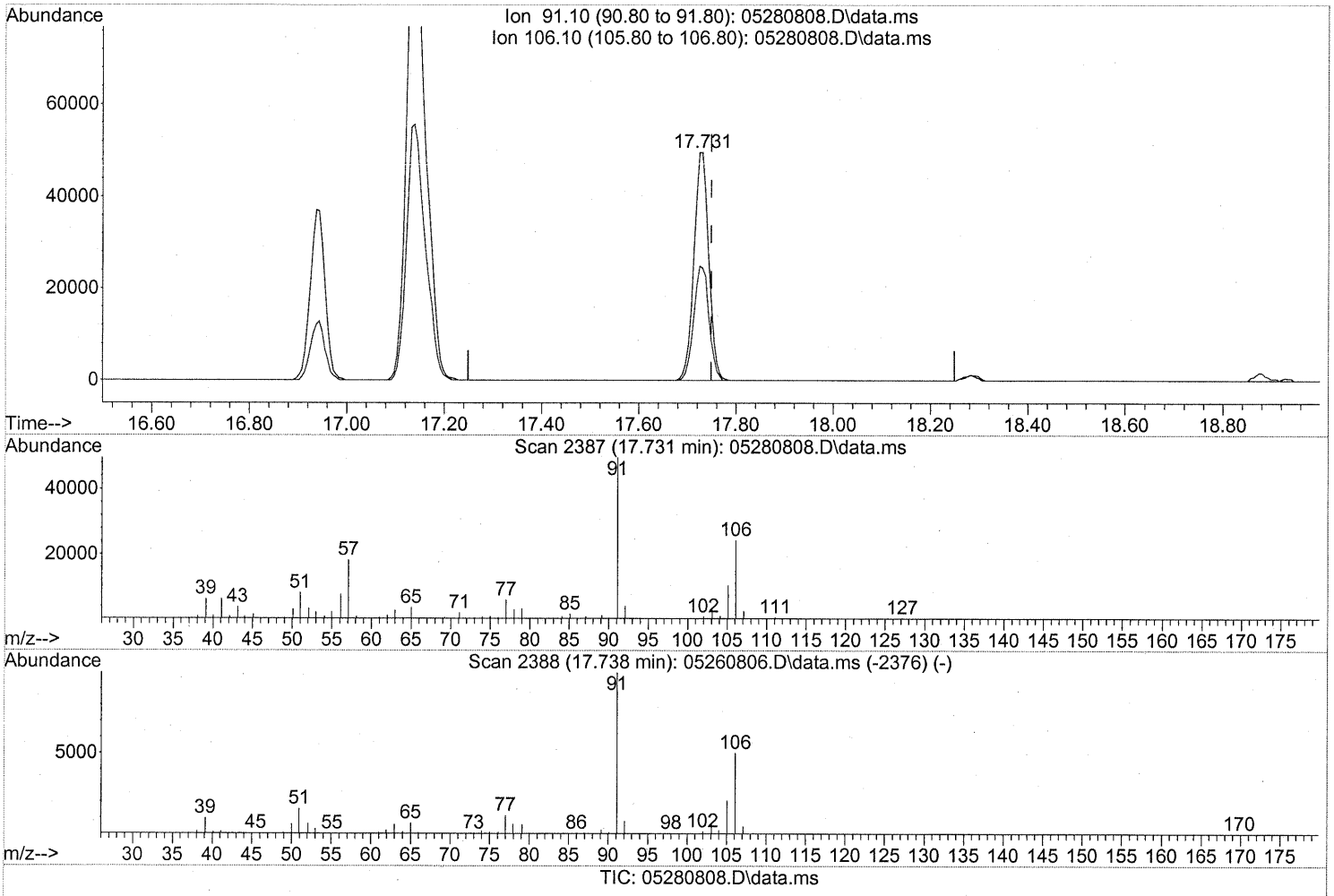

TIC: 05280808.D\data.ms

(70) o-Xylene (T)

17.731min (-0.018) 1.79ng

response 105393

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	51.35
0.00	0.00	0.00
0.00	0.00	0.00

348

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
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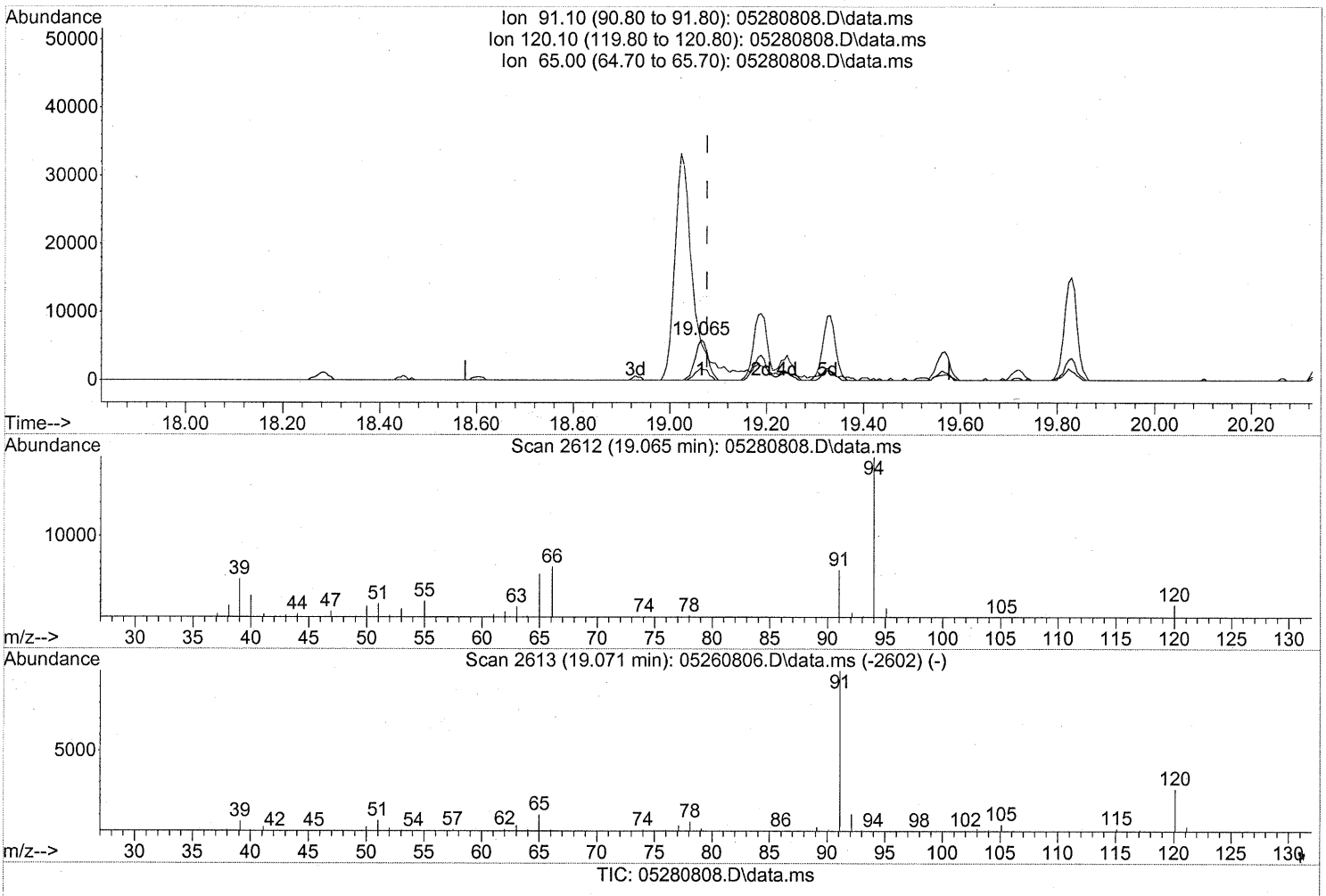

TIC: 05280808.D\data.ms

(76) n-Propylbenzene (T)

19.065min (-0.012) 0.11ng

response 10819

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	29.22
65.00	10.40	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
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Misc : ENSR SG56B-05D (-3.8, 3.5)
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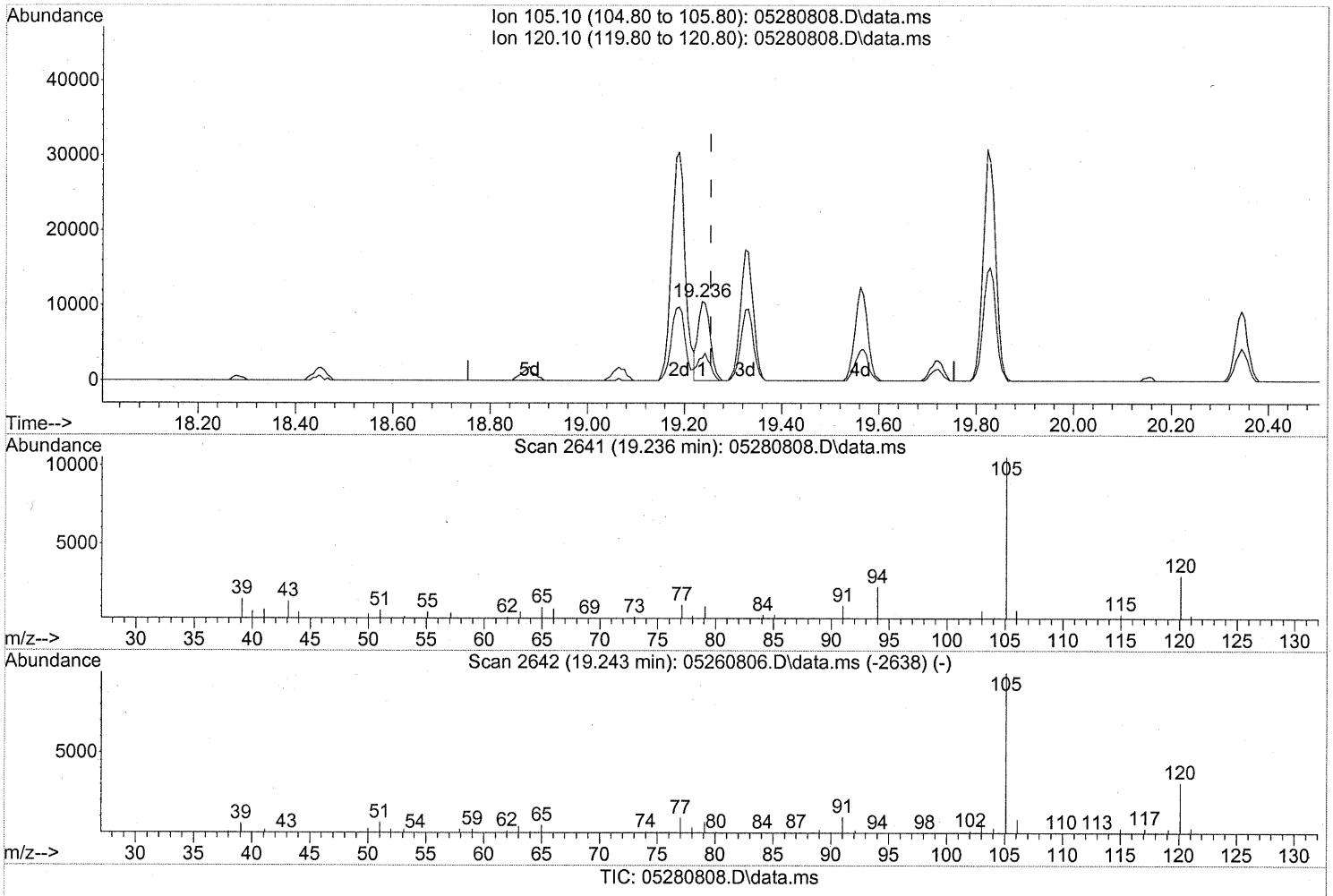
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(78) 4-Ethyltoluene (T)

19.236min (-0.018) 0.22ng

response 18518

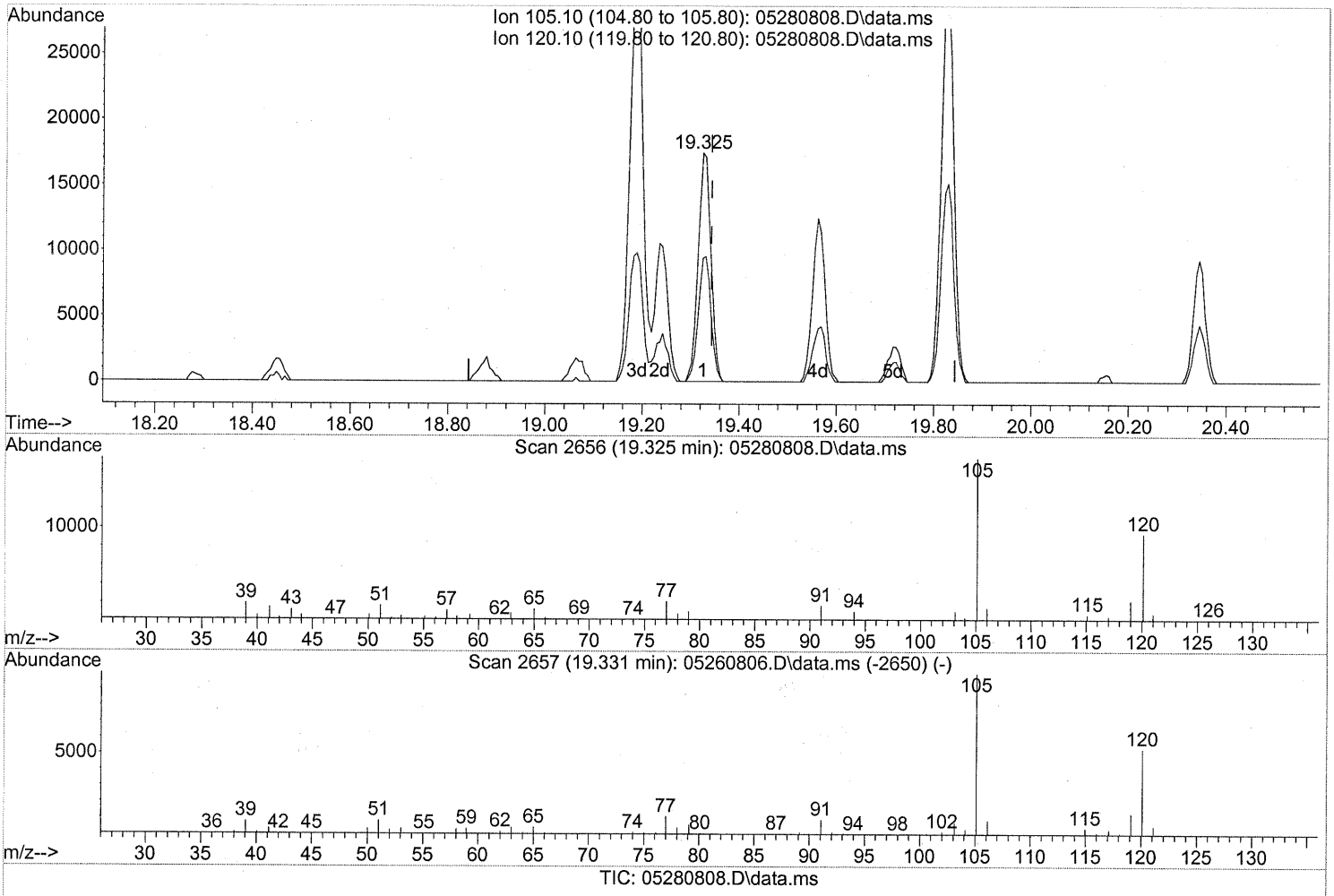
Ion	Exp%	Act%
105.10	100	100
120.10	28.60	33.38
0.00	0.00	0.00
0.00	0.00	0.00

350

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

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

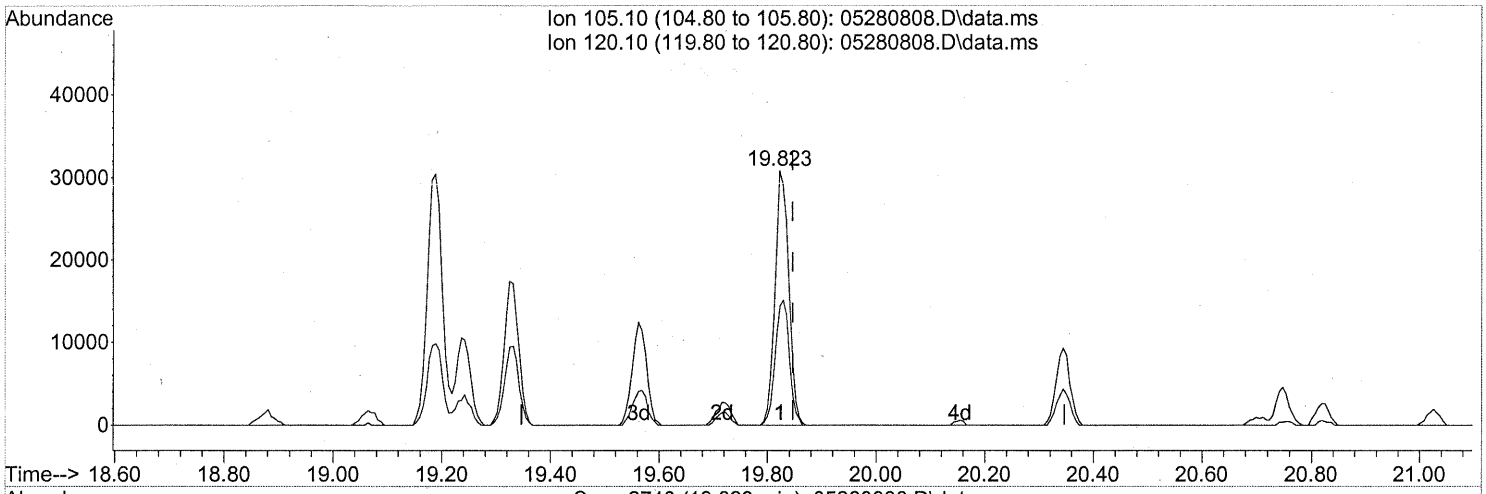
19.325min (-0.018) 0.42ng

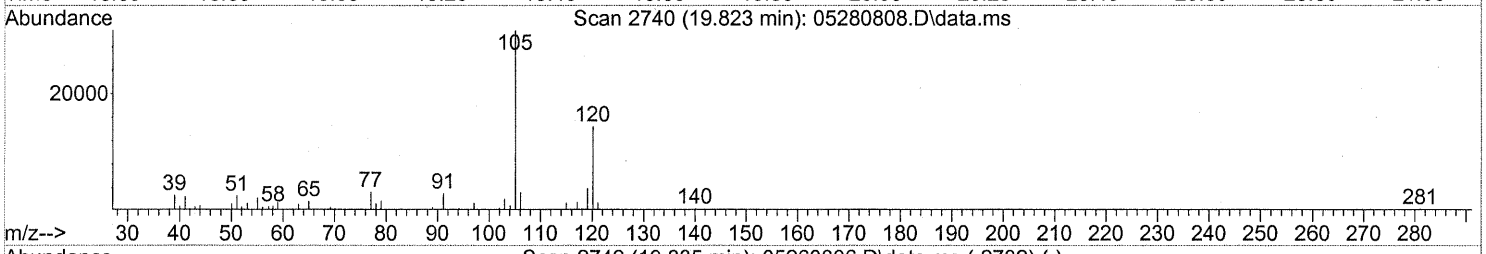
response 31772

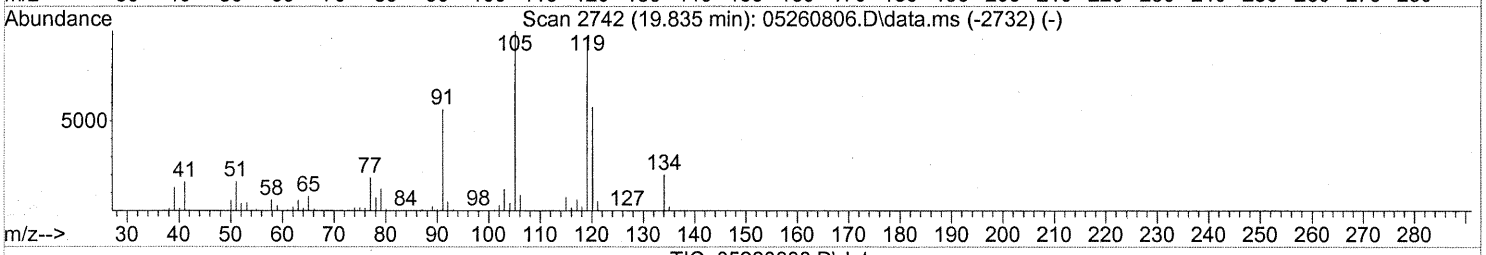
Ion	Exp%	Act%
105.10	100	100
120.10	47.30	54.33
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280808.D\data.ms

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

19.823min (-0.024) 0.72ng

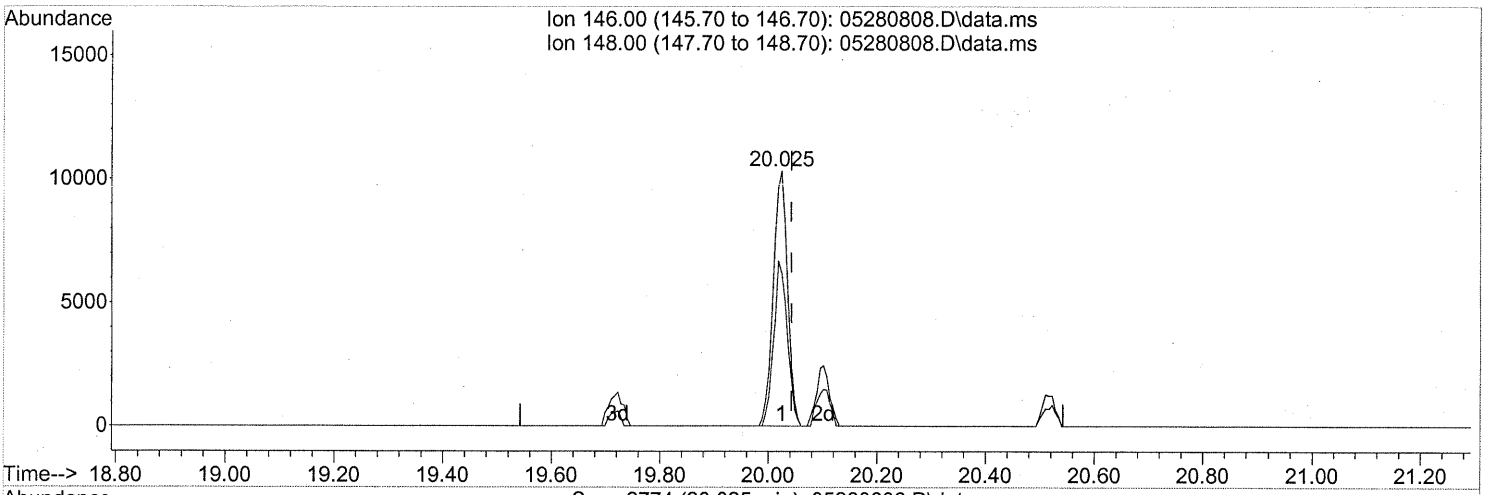
response 54534

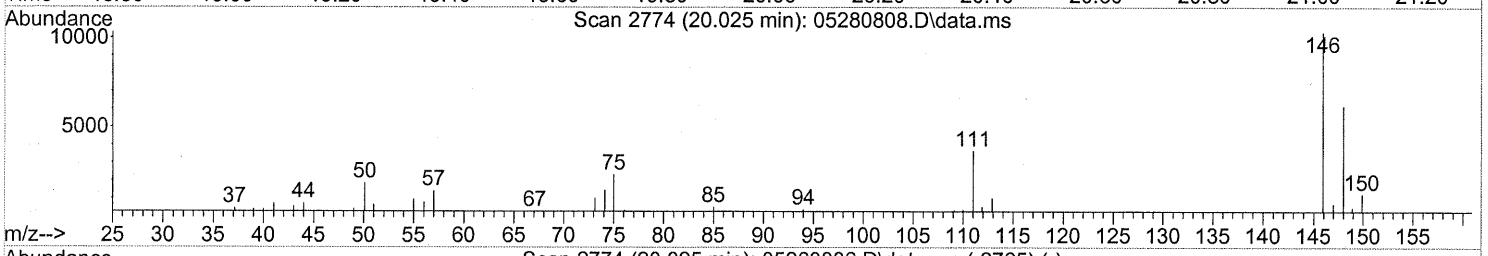
Ion	Exp%	Act%
105.10	100	100
120.10	51.70	50.10
0.00	0.00	0.00
0.00	0.00	0.00

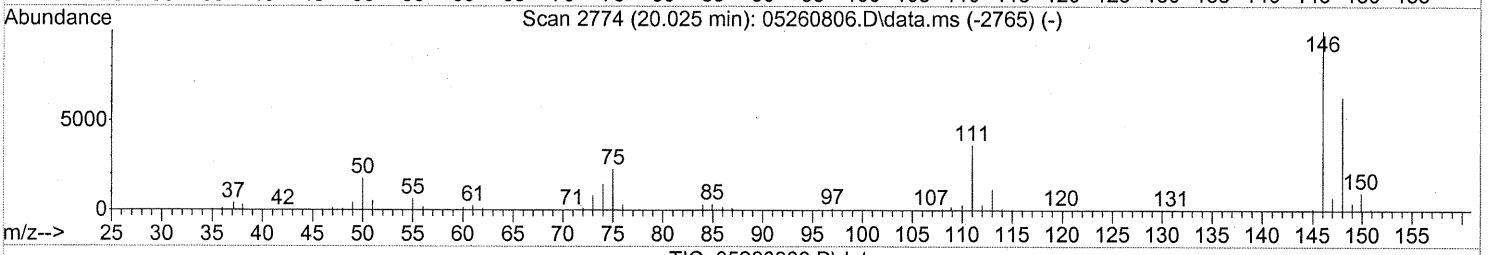
352

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280808.D\data.ms

(85) 1,3-Dichlorobenzene (T)

20.025min (-0.018) 0.39ng

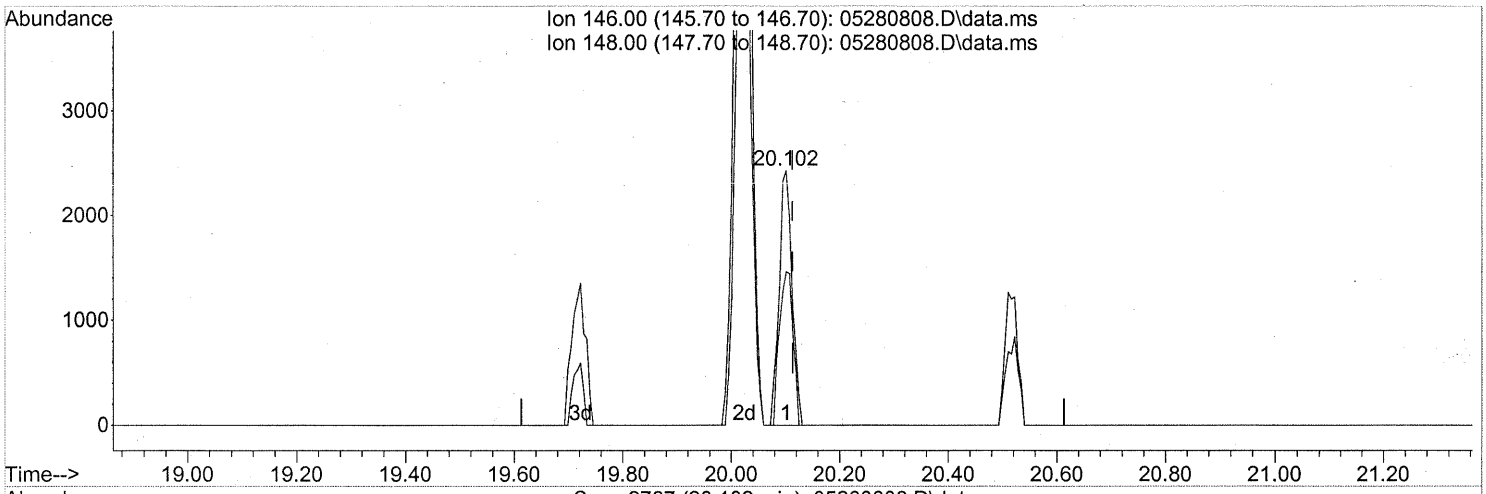
response 18737

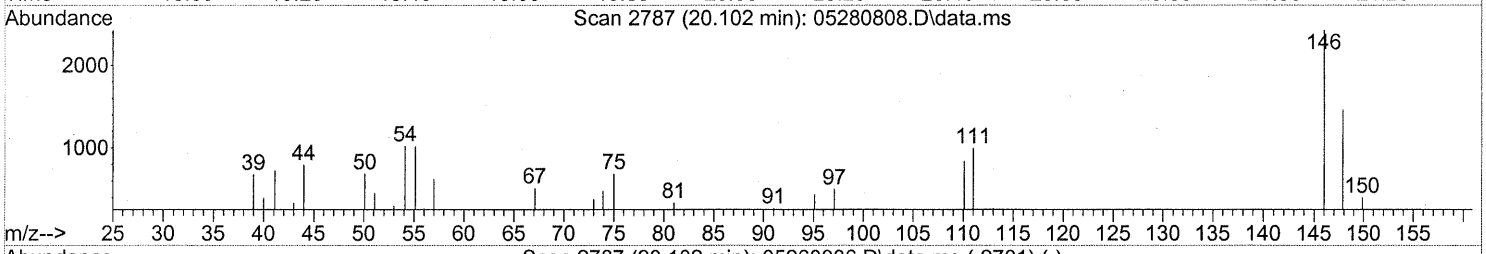
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	61.83
0.00	0.00	0.00
0.00	0.00	0.00

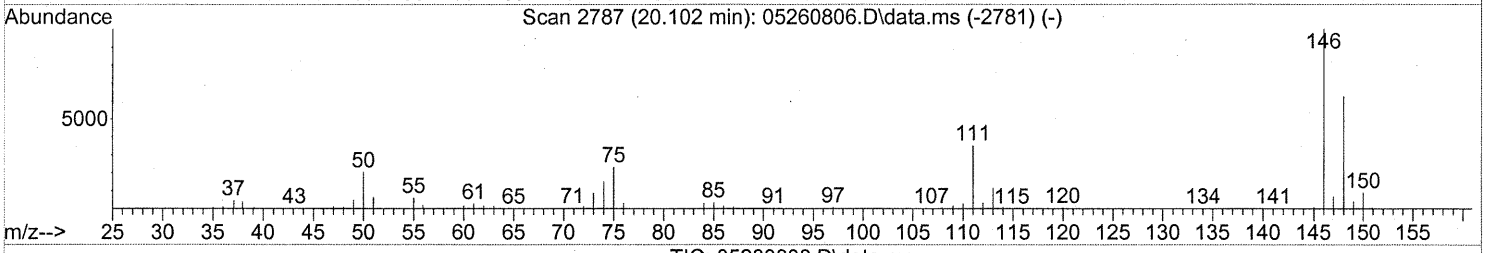
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280808.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 0.09ng

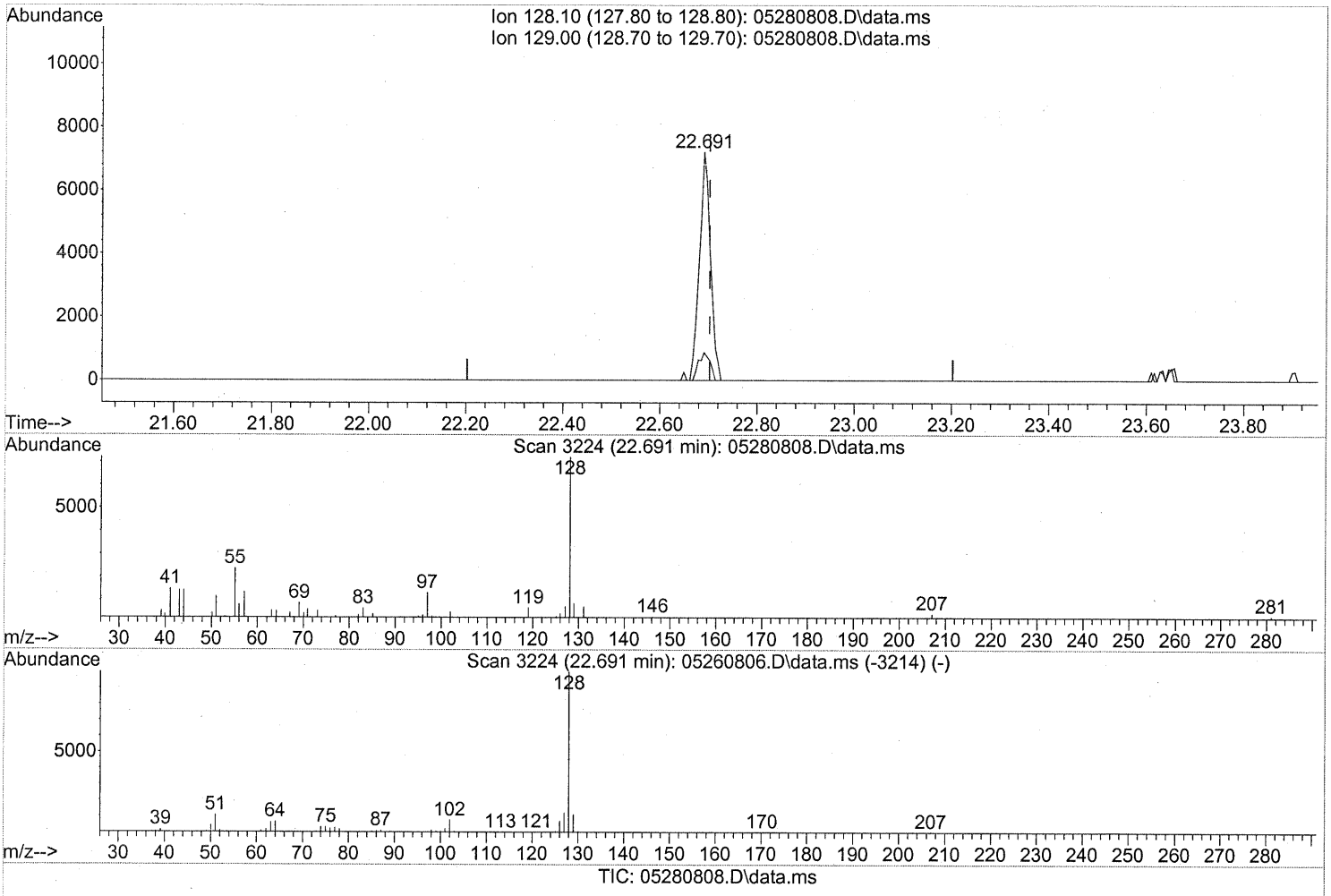
response 4076

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.17
0.00	0.00	0.00
0.00	0.00	0.00

354

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 14:45:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280808.D\data.ms

(95) Naphthalene (T)

22.691min (-0.012) 0.11ng

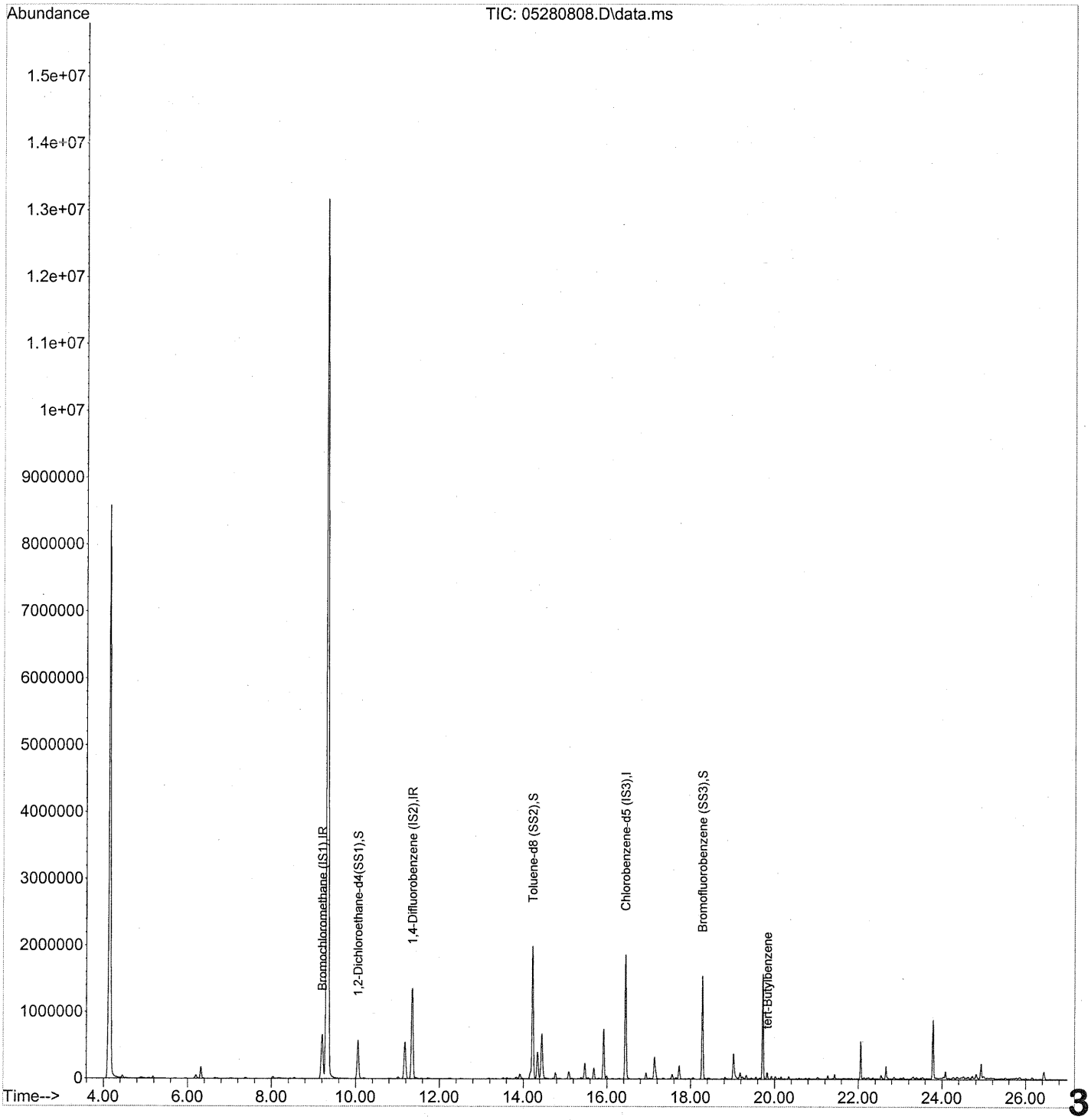
response 11625

Ion	Exp%	Act%
128.10	100	100
129.00	10.40	12.54
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 14:39:45 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280808.D
Acq On : 28 May 2008 13:58
Operator : WA
Sample : P0801507-009 (150ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 04 14:39:45 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.21	130	369769	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.36	114	1533976	25.000	ng	-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	624528	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.06	65	527427	24.945	ng	-0.04
Spiked Amount 25.000			Recovery =	99.80%		
5) Toluene-d8 (SS2)	14.23	98	1559731	24.225	ng	-0.02
Spiked Amount 25.000			Recovery =	96.88%		
6) Bromofluorobenzene (SS3)	18.28	174	556292	25.986	ng	-0.01
Spiked Amount 25.000			Recovery =	103.96%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	7182	~~0.092~~ ng	NR#	56
8) n-Butylbenzene	20.83	91	3342	N.D.		

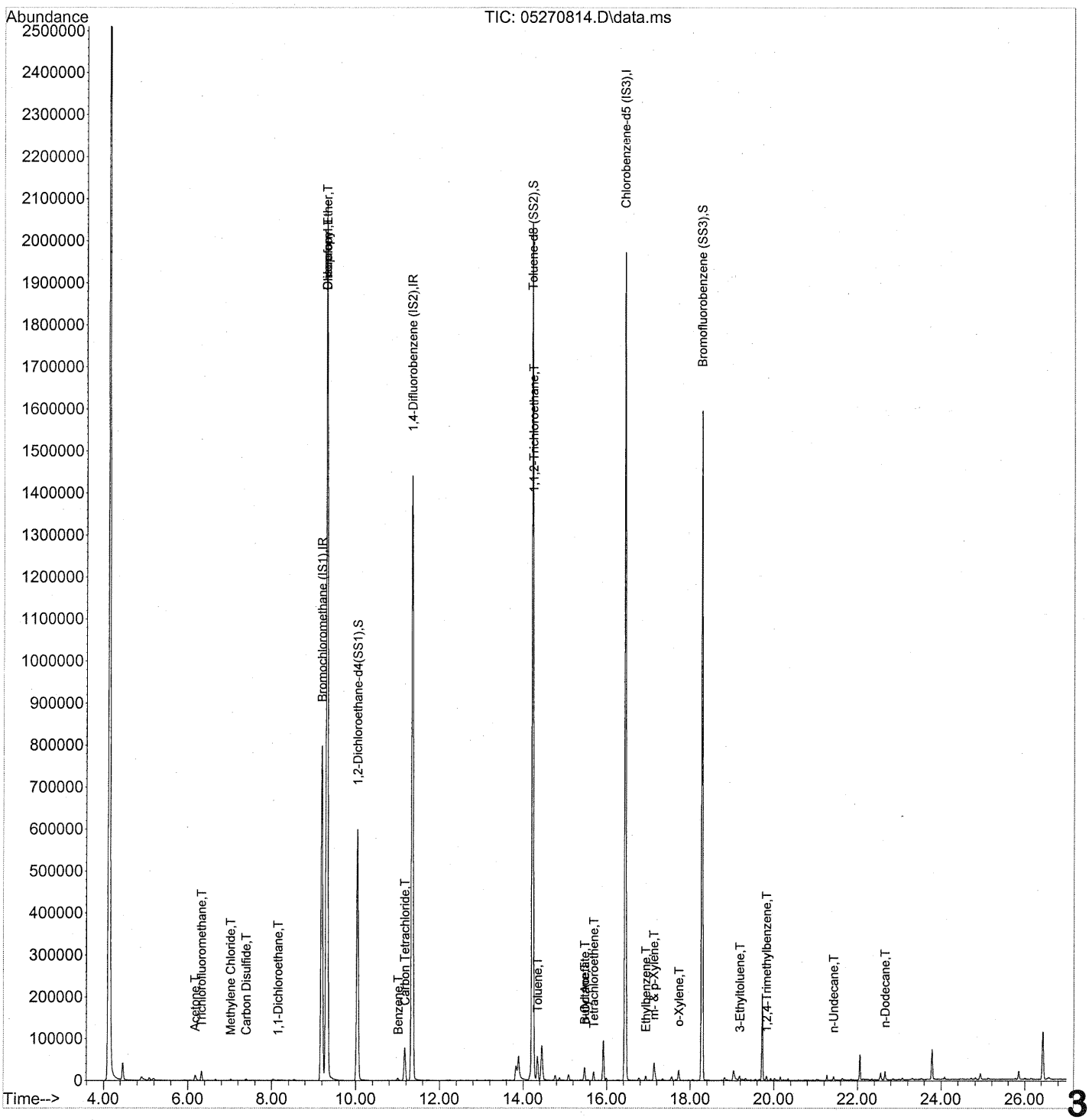
(#) = qualifier out of range (m) = manual integration (+) = signals summed

357

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 21:04
Operator : WA
Sample : P0801507-009 Dil (20ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:47:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 21:04
Operator : WA
Sample : P0801507-009 Dil (20ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:47:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	390553	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1634882	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	658250	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	557740	24.975	ng		-0.05
Spiked Amount 25.000			Recovery =	99.92%			
57) Toluene-d8 (SS2)	14.22	98	1659273	24.450	ng		-0.02
Spiked Amount 25.000			Recovery =	97.80%			
73) Bromofluorobenzene (SS3)	18.28	174	572807	25.387	ng		-0.01
Spiked Amount 25.000			Recovery =	101.56%			
Target Compounds							Qvalue
2) Propene	4.46	42	652	N.D.			
3) Dichlorodifluoromethane	4.55	85	804	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	0.00	45	0	N.D.			
11) Acetonitrile	5.93	41	1974	N.D.			
12) Acrolein	6.06	56	736	N.D.			
13) Acetone	6.18	58	6759	0.331	ng	#	58
14) Trichlorofluoromethane	6.32	101	22224	0.649	ng		95
15) Isopropanol	6.38	45	201	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	7.02	84	1081	0.069	ng	#	38
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	4751	0.075	ng		81
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.15	63	2715	0.081	ng	#	50
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	95	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.31	87	231783	16.493	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	94	N.D.			

359

6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 21:04
Operator : WA
Sample : P0801507-009 Dil (20ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:47:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.31	83	2118621	91.927 ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.78	56	97	N.D.		
41) Benzene	11.02	78	5481	0.080 ng		96
42) Carbon Tetrachloride	11.18	117	66083	2.337 ng		98
43) Cyclohexane	11.34	84	1228	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	12.19	130	94	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.24	57	1017	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	14.24	97	139904	8.345 ng	#	7
58) Toluene	14.35	91	32204	0.418 ng		97
59) 2-Hexanone	14.59	43	1003	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.48	43	18731	0.256 ng	#	74
63) n-Octane	15.48	57	7114	0.306 ng		89
64) Tetrachloroethene	15.69	166	7462	0.328 ng		97
65) Chlorobenzene	16.49	112	430	N.D.		
66) Ethylbenzene	16.94	91	9926	0.113 ng		97
67) m- & p-Xylene	17.13	91	36236	0.625 ng		92
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.59	104	116	N.D.		
70) o-Xylene	17.73	91	13980	0.225 ng		95
71) n-Nonane	17.97	43	731	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.45	105	451	N.D.		
75) alpha-Pinene	19.16	93	213	N.D.		
76) n-Propylbenzene	19.07	91	1344	N.D.		
77) 3-Ethyltoluene	19.19	105	7277	0.073 ng		96
78) 4-Ethyltoluene	19.24	105	2589	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	3792	N.D.		

KDH 6/14/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 21:04
Operator : WA
Sample : P0801507-009 Dil (20ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:47:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

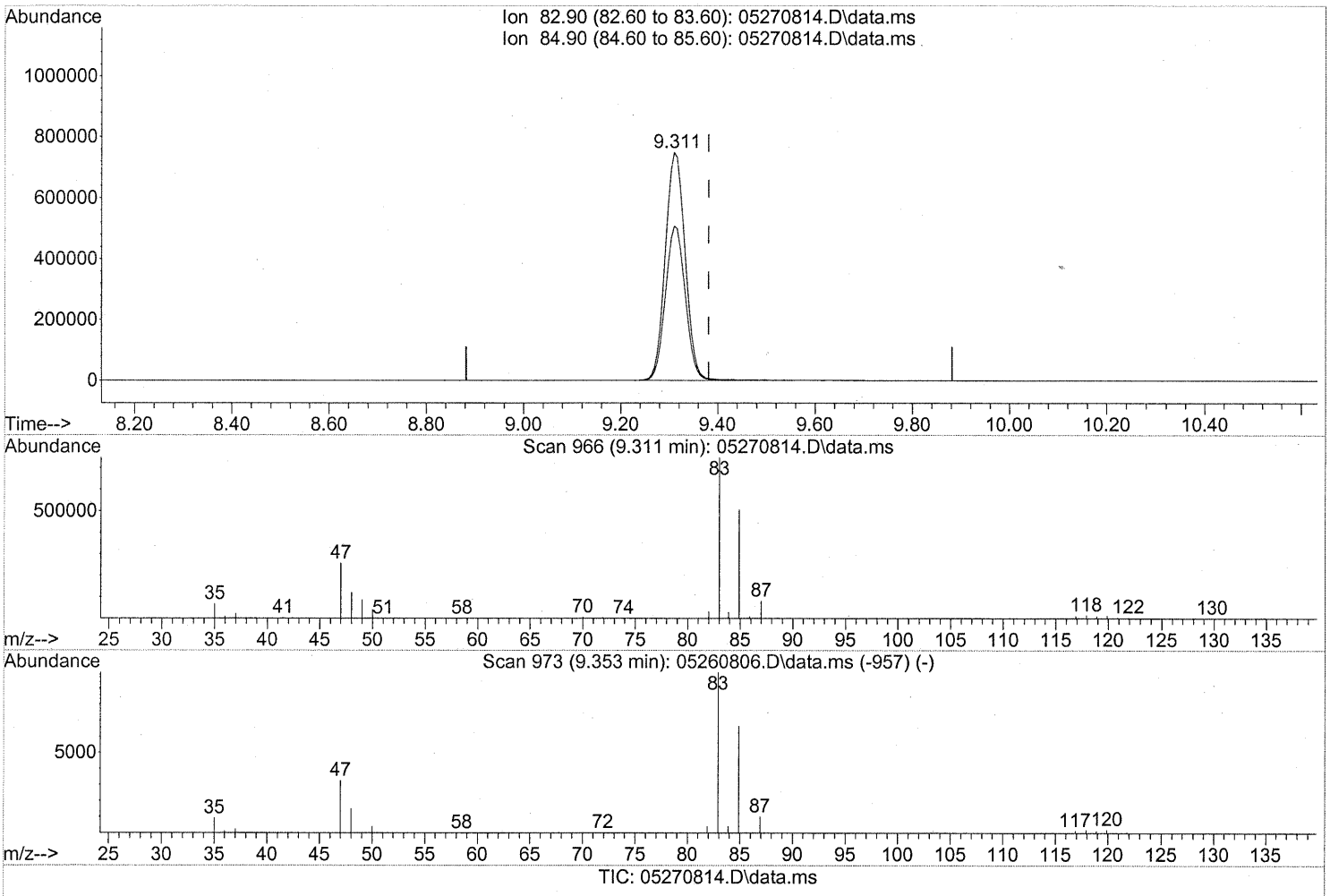
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	1896	N.D.		
81) 2-Ethyltoluene	19.57	105	2906	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	6799	0.085 ng		98
83) n-Decane	19.93	57	2096	N.D.		
84) Benzyl Chloride	19.83	91	667	N.D.		
85) 1,3-Dichlorobenzene	20.02	146	2500	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	536	N.D.		
87) sec-Butylbenzene	20.16	105	98	N.D.		
88) p-Isopropyltoluene	20.34	119	290	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	2220	N.D.		
90) 1,2-Dichlorobenzene	20.52	146	112	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	21.43	57	3801	0.064 ng		75
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	2497	N.D.		
96) n-Dodecane	22.66	57	7937	0.137 ng	#	75
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:\MS16\DATA\2008_05\27\
Data File : 05270814.D
Acq On : 27 May 2008 21:04
Operator : WA
Sample : P0801507-009 Dil (20ml)
Misc : ENSR SG56B-05D (-3.8, 3.5)
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 28 04:47:22 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270814.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 91.93ng

response 2118621

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.66
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG55B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00772

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0050 Liter(s)

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

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	34	3.4	ND	6.9	0.69	
74-87-3	Chloromethane	ND	6.8	3.4	ND	3.3	1.6	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	34	3.4	ND	4.9	0.49	
75-01-4	Vinyl Chloride	ND	6.8	3.4	ND	2.7	1.3	
74-83-9	Bromomethane	ND	6.8	3.4	ND	1.8	0.88	
75-00-3	Chloroethane	ND	6.8	3.4	ND	2.6	1.3	
64-17-5	Ethanol	ND	340	3.4	ND	180	1.8	
67-64-1	**Acetone**	**53**	340	5.0	**22**	140	2.1	**J, B**
75-69-4	Trichlorofluoromethane	ND	6.8	3.4	ND	1.2	0.61	
107-13-1	Acrylonitrile	ND	34	4.8	ND	16	2.2	
75-35-4	1,1-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	34	5.0	ND	11	1.7	
75-09-2	**Methylene Chloride**	**4.6**	34	3.4	**1.3**	9.8	0.98	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	6.8	3.4	ND	2.2	1.1	
76-13-1	Trichlorotrifluoroethane	ND	6.8	3.8	ND	0.89	0.50	
75-15-0	Carbon Disulfide	ND	34	8.2	ND	11	2.6	
156-60-5	trans-1,2-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
75-34-3	1,1-Dichloroethane	ND	6.8	3.4	ND	1.7	0.84	
1634-04-4	Methyl tert-Butyl Ether	ND	6.8	3.4	ND	1.9	0.94	
108-05-4	Vinyl Acetate	ND	340	11	ND	97	3.1	
78-93-3	**2-Butanone (MEK)**	**8.8**	34	3.4	**3.0**	12	1.2	**J, B**
156-59-2	cis-1,2-Dichloroethene	ND	6.8	3.4	ND	1.7	0.86	
108-20-3	Diisopropyl Ether	ND	34	4.0	ND	8.1	0.96	
67-66-3	**Chloroform**	**14,000**	6.8	4.0	**2,900**	1.4	0.82	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG55B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-010

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00772

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.025 Liter(s)
0.0050 Liter(s)

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

Canister Dilution Factor: 1.70

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	34	3.5	ND	8.1	0.83	
107-06-2	1,2-Dichloroethane	ND	6.8	3.4	ND	1.7	0.84	
71-55-6	1,1,1-Trichloroethane	ND	6.8	3.4	ND	1.2	0.62	
71-43-2	**Benzene**	**9.9**	6.8	3.4	**3.1**	2.1	1.1	**B**
56-23-5	**Carbon Tetrachloride**	**530**	6.8	3.4	**85**	1.1	0.54	
994-05-8	tert-Amyl Methyl Ether	ND	34	3.4	ND	8.1	0.81	
78-87-5	1,2-Dichloropropane	ND	6.8	3.4	ND	1.5	0.74	
75-27-4	Bromodichloromethane	ND	6.8	3.4	ND	1.0	0.51	
79-01-6	Trichloroethene	ND	6.8	3.4	ND	1.3	0.63	
123-91-1	1,4-Dioxane	ND	34	4.1	ND	9.4	1.2	
80-62-6	Methyl Methacrylate	ND	34	5.1	ND	8.3	1.2	
142-82-5	n-Heptane	ND	34	4.4	ND	8.3	1.1	
10061-01-5	cis-1,3-Dichloropropene	ND	34	3.5	ND	7.5	0.78	
108-10-1	4-Methyl-2-pentanone	ND	34	3.8	ND	8.3	0.93	
10061-02-6	trans-1,3-Dichloropropene	ND	34	4.3	ND	7.5	0.94	
79-00-5	1,1,2-Trichloroethane	ND	6.8	3.4	ND	1.2	0.62	
108-88-3	**Toluene**	**41**	34	3.4	**11**	9.0	0.90	
591-78-6	2-Hexanone	ND	34	5.2	ND	8.3	1.3	
124-48-1	Dibromochloromethane	ND	6.8	4.6	ND	0.80	0.54	
106-93-4	1,2-Dibromoethane	ND	6.8	3.7	ND	0.89	0.48	
111-65-9	**n-Octane**	**23**	34	3.4	**4.8**	7.3	0.73	**J**
127-18-4	**Tetrachloroethene**	**130**	6.8	3.4	**19**	1.0	0.50	
108-90-7	Chlorobenzene	ND	6.8	3.5	ND	1.5	0.75	

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B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG55B-05** CAS Sample ID: P0801507-010
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.025 Liter(s)
Test Notes: 0.0050 Liter(s)
Container ID: SC00772

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

Canister Dilution Factor: 1.70

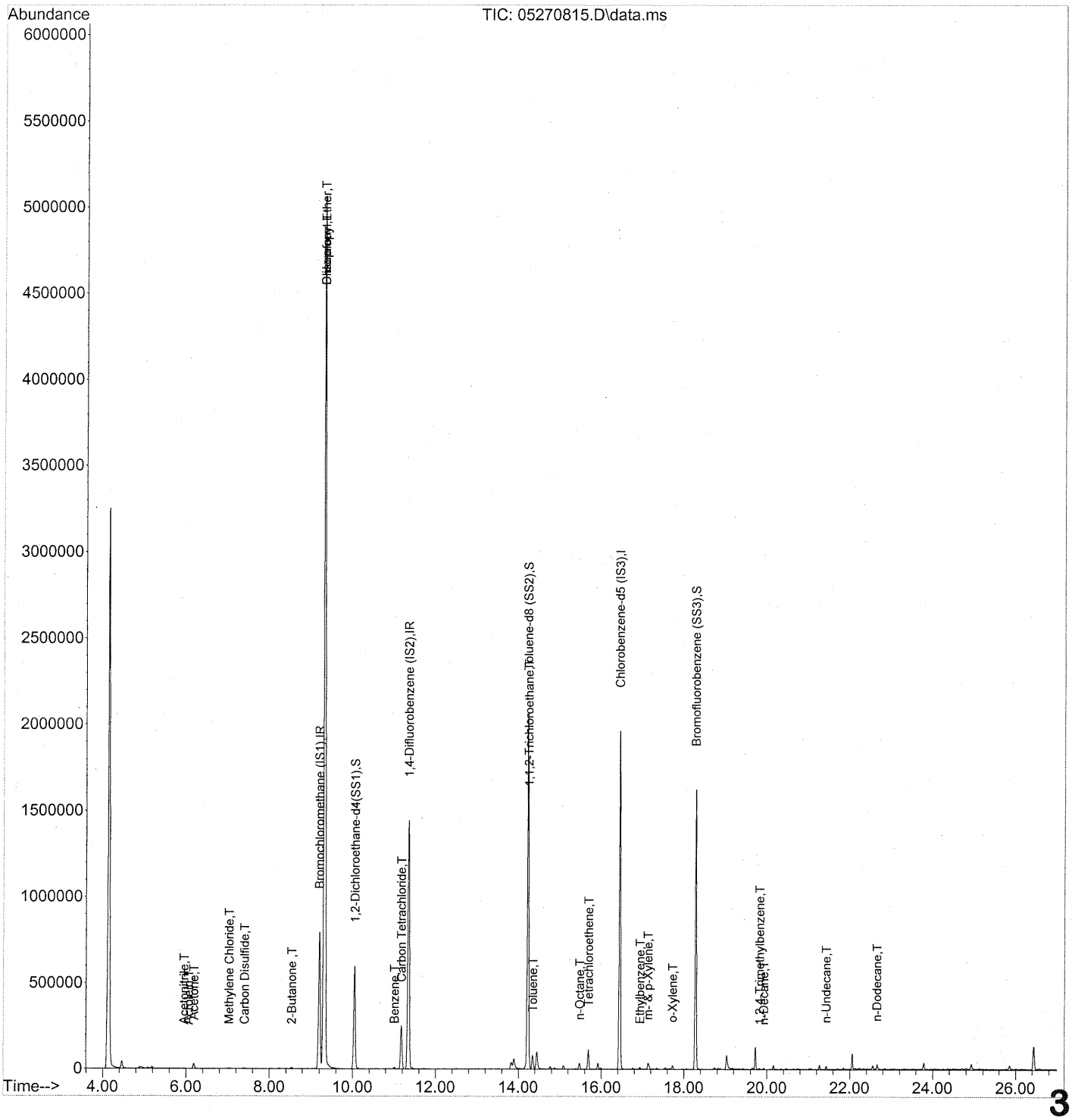
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**8.0**	34	4.2	**1.8**	7.8	0.97	**J**
179601-23-1	**m,p-Xylenes**	**37**	34	8.8	**8.5**	7.8	2.0	
75-25-2	Bromoform	ND	34	5.2	ND	3.3	0.50	
100-42-5	Styrene	ND	34	5.2	ND	8.0	1.2	
95-47-6	**o-Xylene**	**11**	34	4.3	**2.6**	7.8	0.99	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.8	4.4	ND	0.99	0.63	
98-82-8	Cumene	ND	34	3.8	ND	6.9	0.77	
103-65-1	n-Propylbenzene	ND	34	3.5	ND	6.9	0.72	
622-96-8	4-Ethyltoluene	ND	34	3.9	ND	6.9	0.79	
108-67-8	1,3,5-Trimethylbenzene	ND	34	4.1	ND	6.9	0.83	
98-83-9	alpha-Methylstyrene	ND	34	5.0	ND	7.0	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	34	4.7	ND	6.9	0.95	
100-44-7	Benzyl Chloride	ND	6.8	5.8	ND	1.3	1.1	
541-73-1	1,3-Dichlorobenzene	ND	6.8	4.2	ND	1.1	0.70	
106-46-7	1,4-Dichlorobenzene	ND	6.8	3.8	ND	1.1	0.63	
135-98-8	sec-Butylbenzene	ND	34	3.9	ND	6.2	0.72	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	34	4.4	ND	6.2	0.81	
95-50-1	1,2-Dichlorobenzene	ND	6.8	4.5	ND	1.1	0.75	
96-12-8	1,2-Dibromo-3-chloropropane	ND	34	5.2	ND	3.5	0.53	
120-82-1	1,2,4-Trichlorobenzene	ND	6.8	5.2	ND	0.92	0.70	
91-20-3	Naphthalene	ND	14	5.0	ND	2.6	0.96	
87-68-3	Hexachlorobutadiene	ND	6.8	6.1	ND	0.64	0.57	
98-06-6	tert-Butylbenzene	ND	14	3.4	ND	2.5	0.62	
104-51-8	n-Butylbenzene	ND	14	3.4	ND	2.5	0.62	

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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	390977	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1623936	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	656497	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	558634	24.988	ng		-0.04
Spiked Amount 25.000			Recovery =	99.96%			
57) Toluene-d8 (SS2)	14.23	98	1651846	24.406	ng		-0.02
Spiked Amount 25.000			Recovery =	97.64%			
73) Bromofluorobenzene (SS3)	18.28	174	576224	25.607	ng		-0.01
Spiked Amount 25.000			Recovery =	102.44%			
Target Compounds							Qvalue
2) Propene	4.46	42	1431	N.D.			
3) Dichlorodifluoromethane	4.56	85	1021	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	5.60	64	90	N.D.			
10) Ethanol	5.71	45	316	N.D.			
11) Acetonitrile	5.95	41	3210	0.054	ng	#	23
12) Acrolein	6.06	56	843	0.057	ng		91
13) Acetone	6.19	58	15936	0.780	ng	#	67
14) Trichlorofluoromethane	6.34	101	1617	N.D.			
15) Isopropanol	6.39	45	869	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.96	59	213	N.D.			
19) Methylene Chloride	7.03	84	1060	0.067	ng	#	6
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	5138	~~0.081~~	ng		80
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	8.54	72	1385	0.130	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	582479	~~41.402~~	ng UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.22	57	238	N.D.			

367

DA 6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	9.32	83	5393343	~~233.764 ng~~ sat dil	96
34) Tetrahydrofuran	0.00	72	0	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	0.00	62	0	N.D.	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	10.80	56	230	N.D.	
41) Benzene	11.01	78	9913	0.145 ng	96
42) Carbon Tetrachloride	11.18	117	220090	7.837 ng	99
43) Cyclohexane	11.33	84	1226	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	12.20	130	609	N.D.	
48) 1,4-Dioxane	0.00	88	0	N.D.	
49) Isooctane	12.26	57	1300	N.D.	
50) Methyl Methacrylate	0.00	100	0	N.D.	
51) n-Heptane	12.51	71	208	N.D.	
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.	
53) 4-Methyl-2-pentanone	13.17	58	90	N.D.	
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.	
55) 1,1,2-Trichloroethane	14.24	97	140659	~~8.446 ng~~ NR#	7
58) Toluene	14.35	91	45948	0.598 ng	99
59) 2-Hexanone	14.59	43	2465	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	15.31	43	103	N.D.	
63) n-Octane	15.48	57	7682	0.331 ng	85
64) Tetrachloroethene	15.69	166	43490	1.915 ng	99
65) Chlorobenzene	16.49	112	1142	N.D.	
66) Ethylbenzene	16.94	91	10306	0.118 ng	93
67) m- & p-Xylene	17.13	91	31424	0.544 ng	92
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	17.59	104	445	N.D.	
70) o-Xylene	17.73	91	10254	0.166 ng	98
71) n-Nonane	17.96	43	1682	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	18.45	105	539	N.D.	
75) alpha-Pinene	19.04	93	1443	N.D.	
76) n-Propylbenzene	19.06	91	1043	N.D.	
77) 3-Ethyltoluene	19.18	105	4199	N.D.	
78) 4-Ethyltoluene	19.24	105	1565	N.D.	
79) 1,3,5-Trimethylbenzene	19.33	105	1893	N.D.	

368

6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	1279	N.D.		
81) 2-Ethyltoluene	19.56	105	1531	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	4022	~~0.050 ng~~		93
83) n-Decane	19.92	57	2869	0.051 ng	#	67
84) Benzyl Chloride	19.82	91	294	N.D.		
85) 1,3-Dichlorobenzene	20.10	146	398	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	398	N.D.		
87) sec-Butylbenzene	20.16	105	201	N.D.		
88) p-Isopropyltoluene	20.34	119	487	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	1430	N.D.		
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.52	68	330	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.43	57	8049	0.135 ng		76
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	4597	N.D.		
96) n-Dodecane	22.66	57	11273	0.195 ng	#	74
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

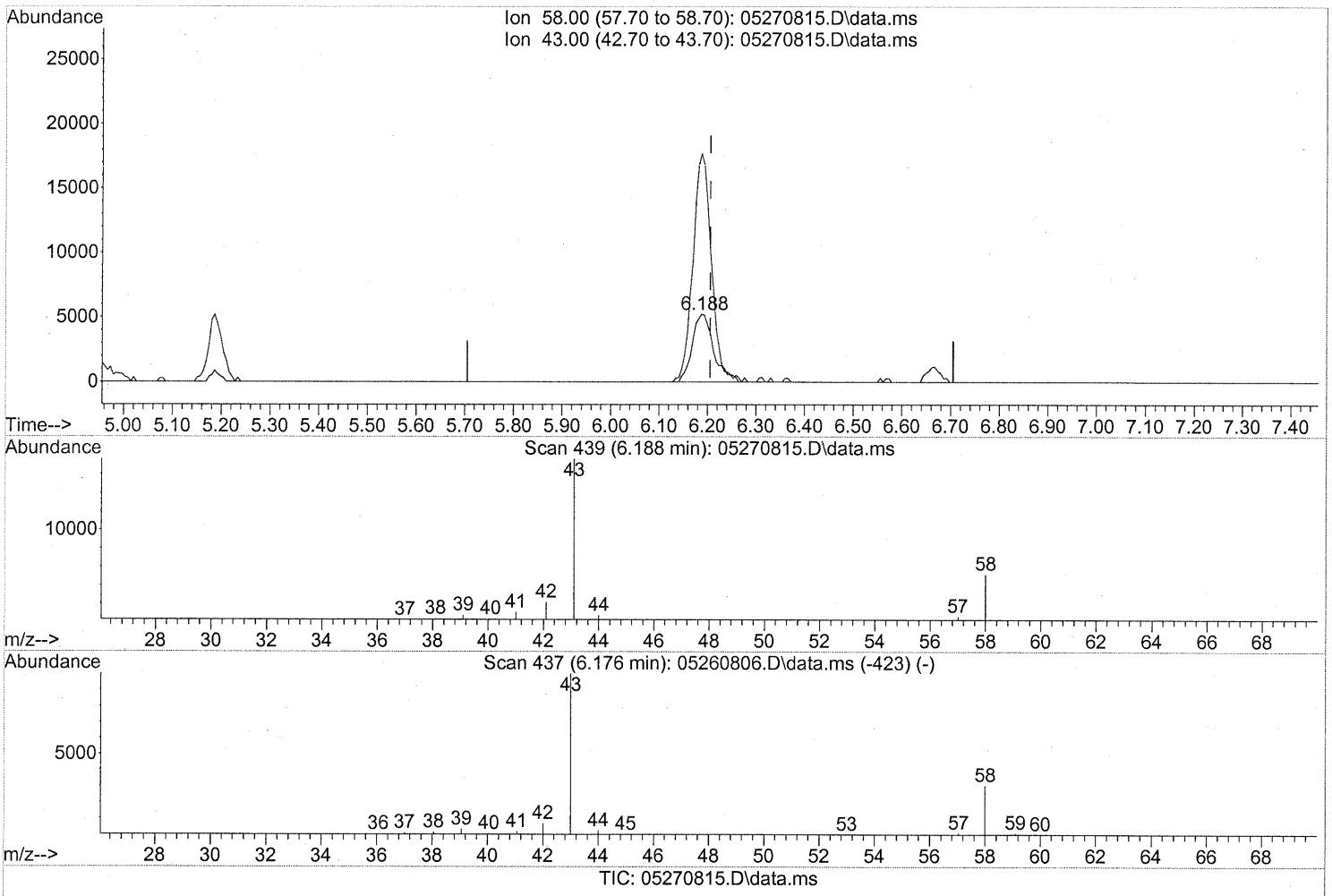
(#) = qualifier out of range (m) = manual integration (+) = signals summed

DA 6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270815.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 0.78ng

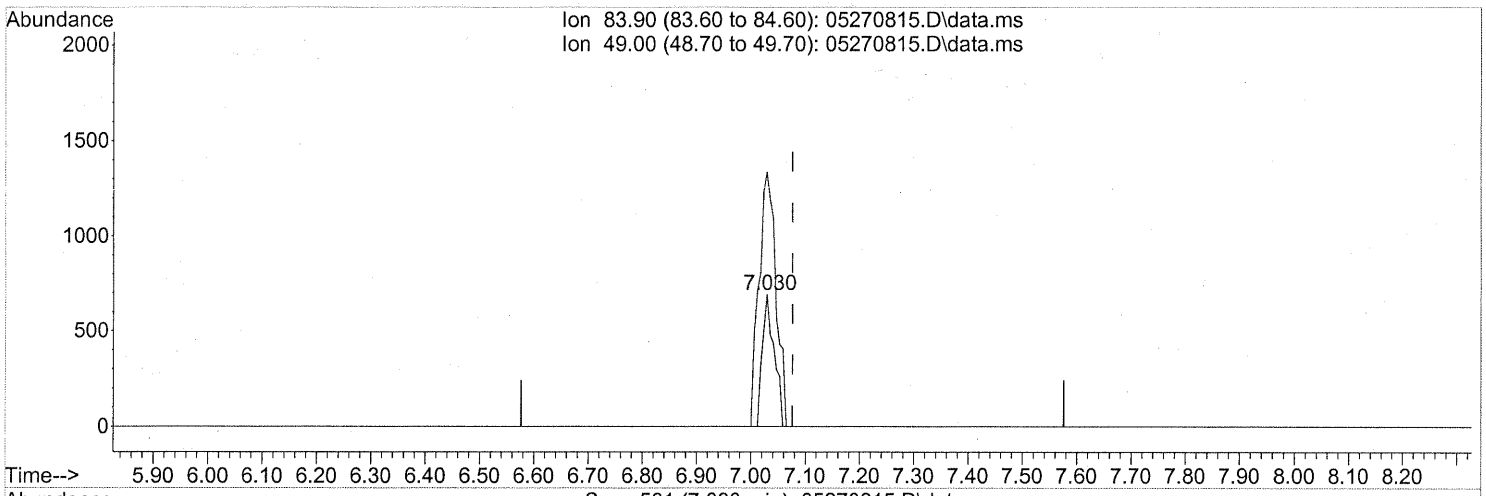
response 15936

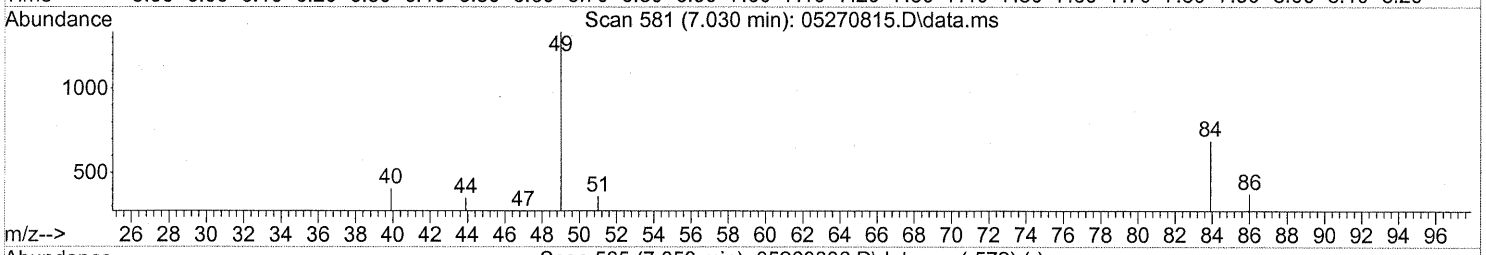
Ion	Exp%	Act%
58.00	100	100
43.00	368.40	293.65#
0.00	0.00	0.00
0.00	0.00	0.00

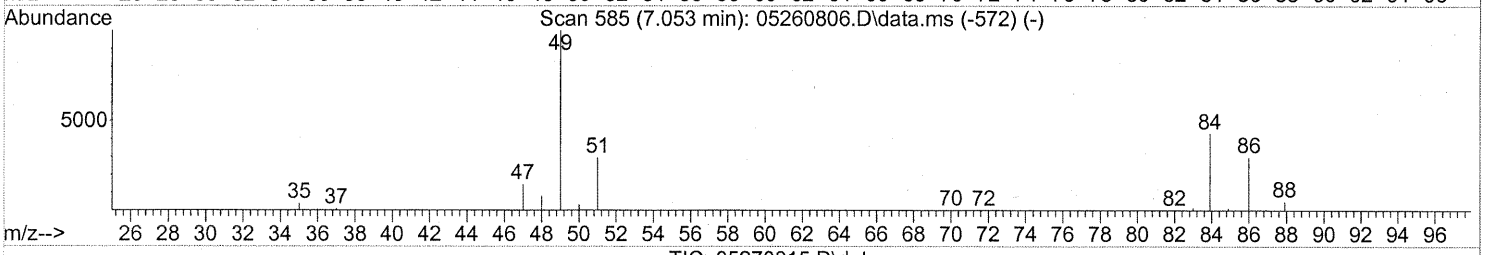
370

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270815.D\data.ms

(19) Methylene Chloride (T)

7.030min (-0.047) 0.07ng

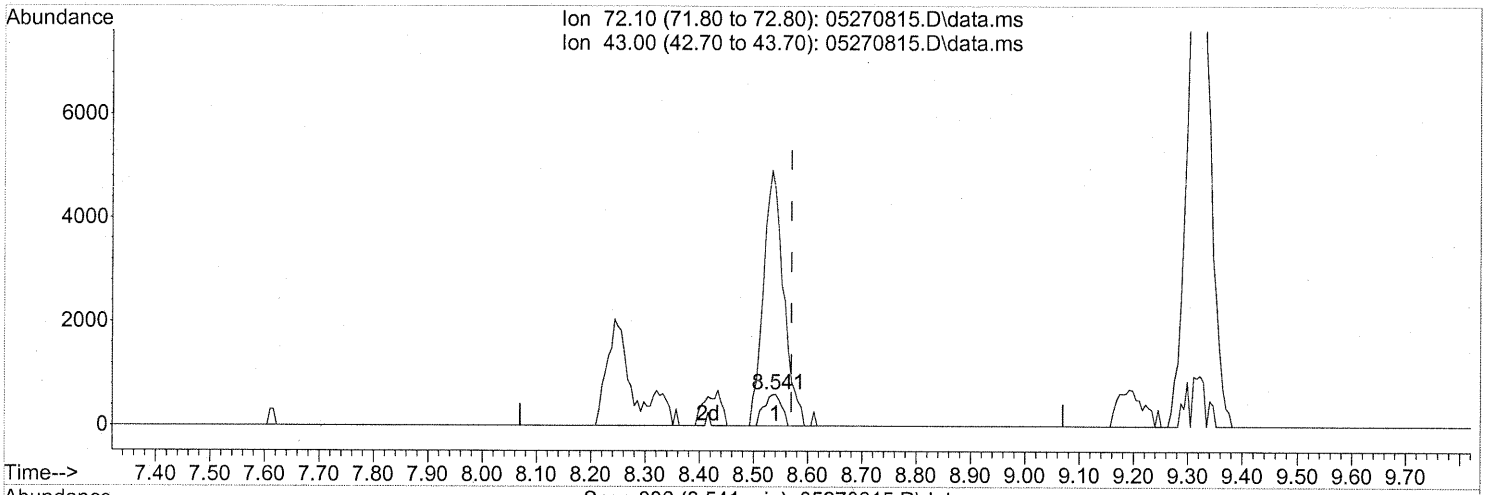
response 1060

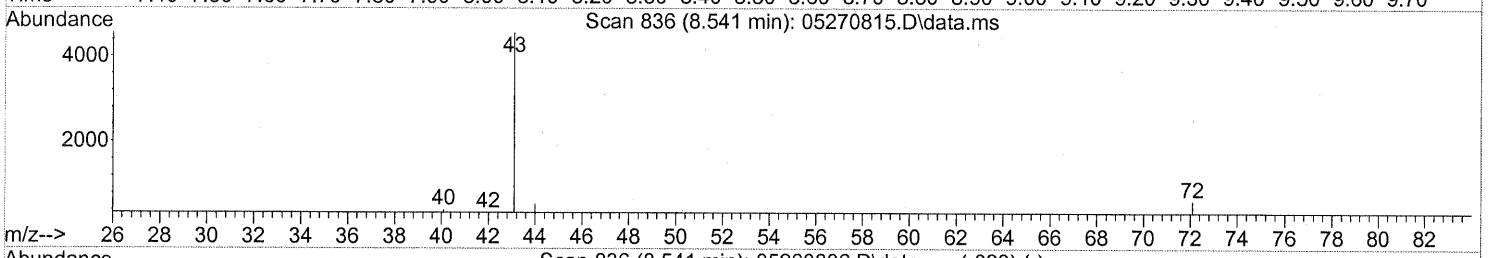
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	277.17#
0.00	0.00	0.00
0.00	0.00	0.00

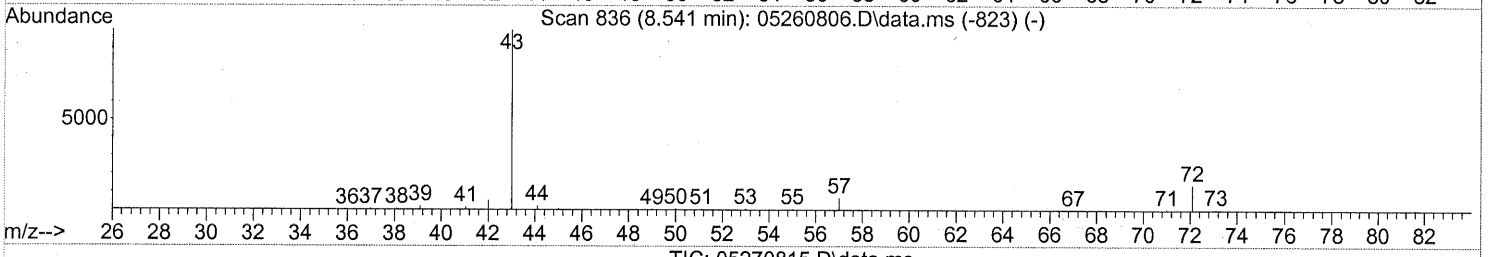
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270815.D\data.ms

(27) 2-Butanone (T)

8.541min (-0.030) 0.13ng

response 1385

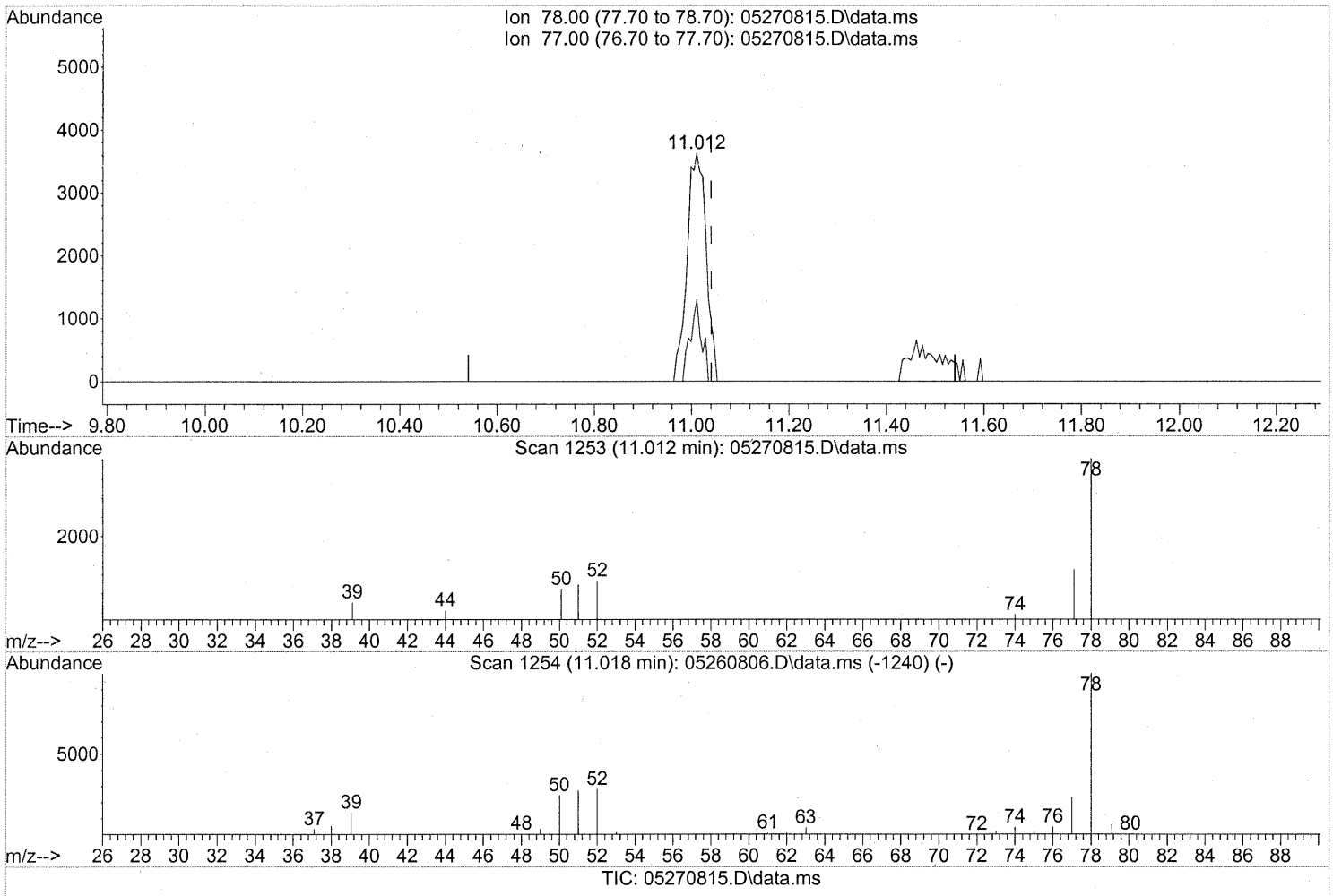
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	925.63#
0.00	0.00	0.00
0.00	0.00	0.00

372

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.012min (-0.030) 0.14ng

response 9913

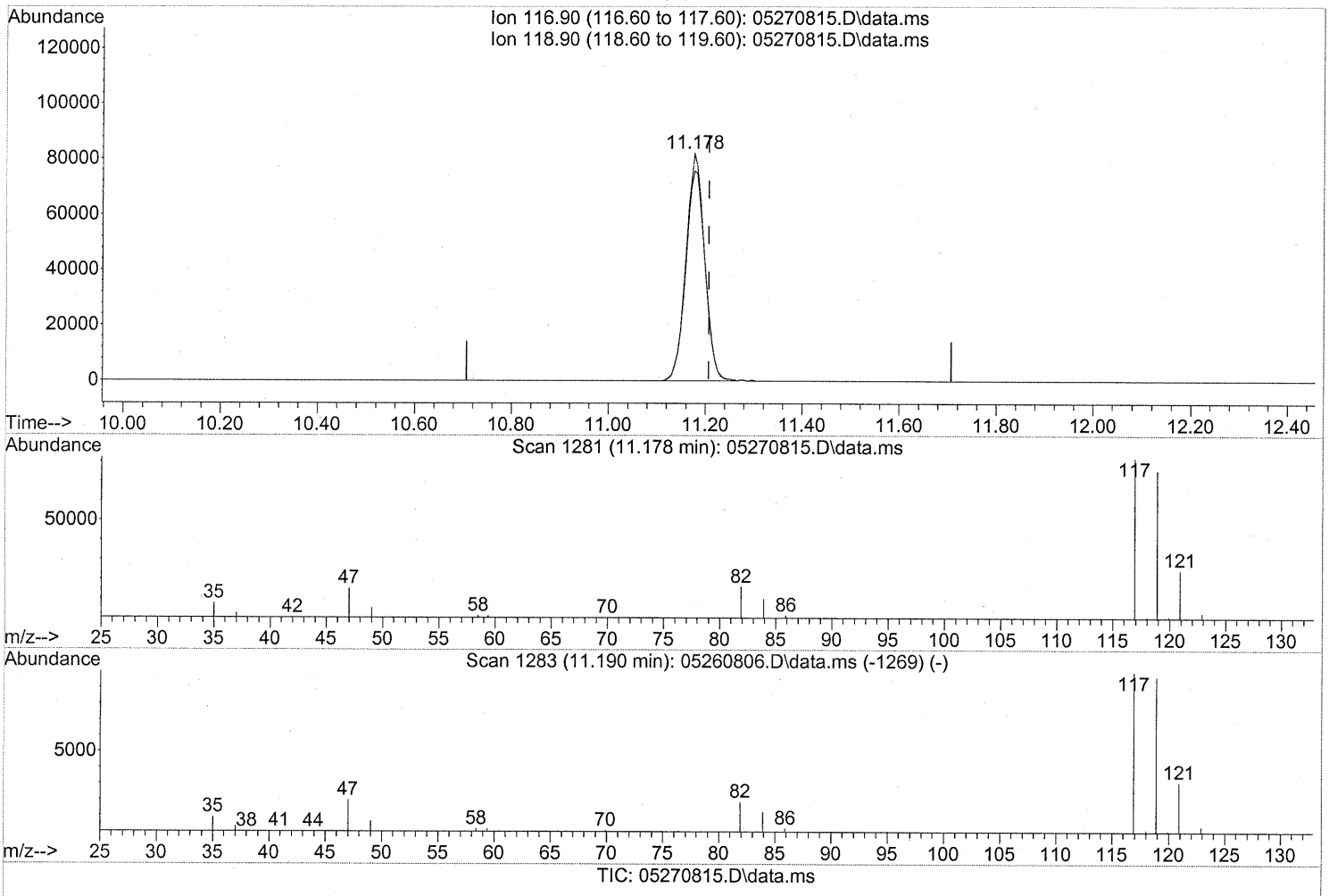
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	21.40
0.00	0.00	0.00
0.00	0.00	0.00

373

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270815.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 7.84ng

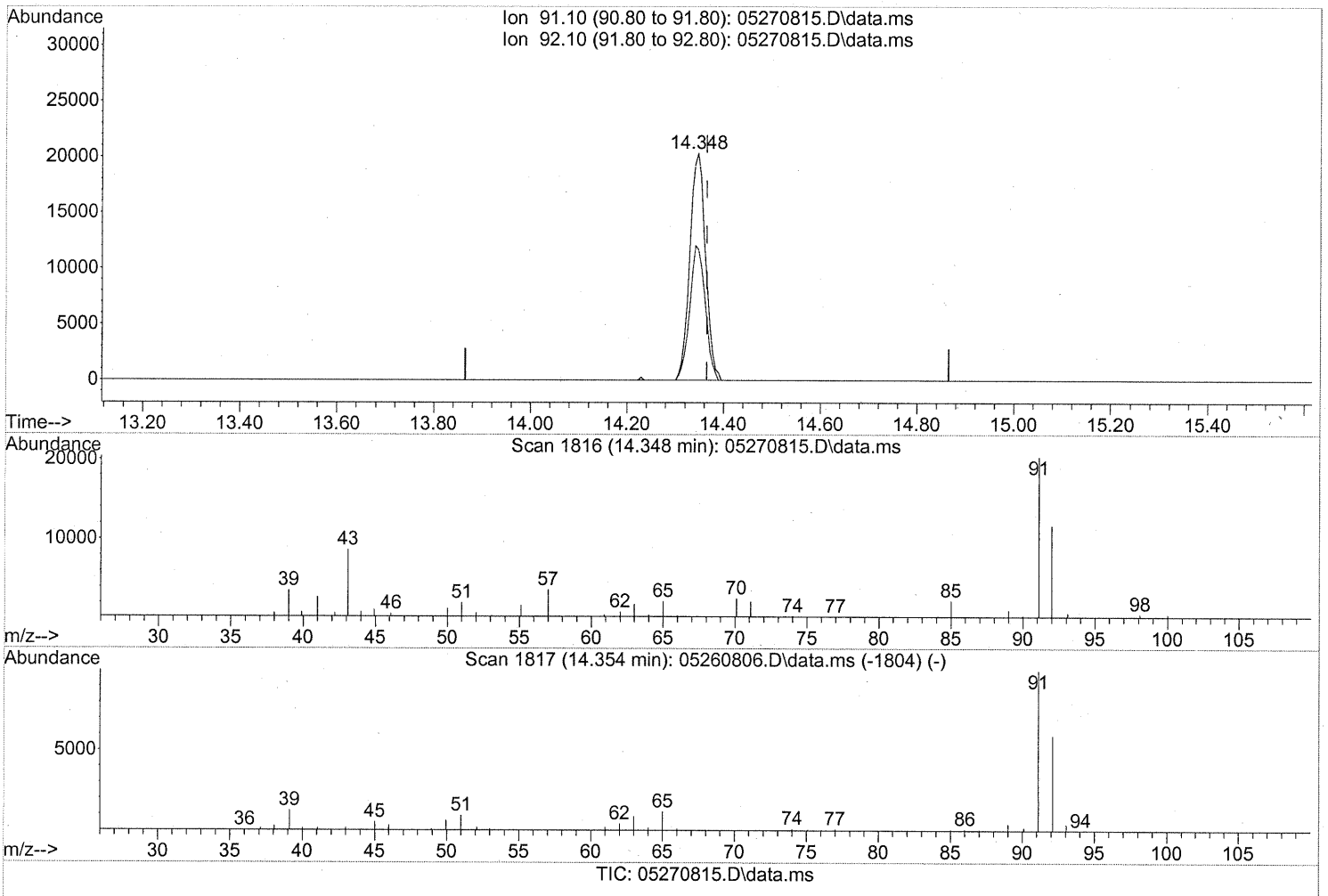
response 220090

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270815.D\data.ms

(58) Toluene (T)

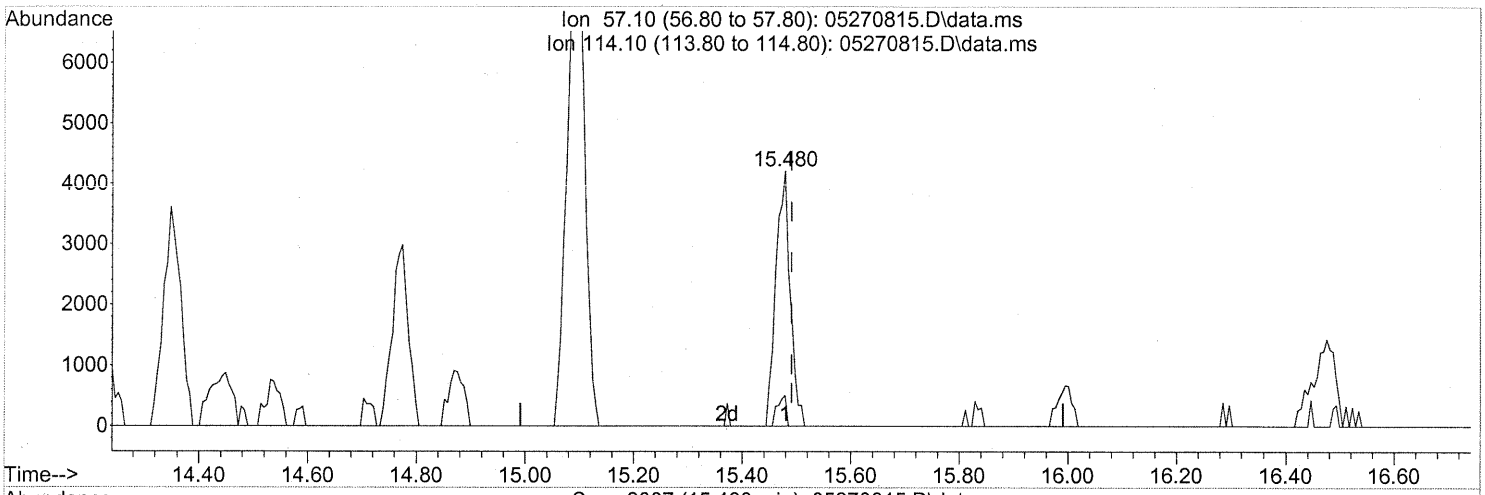
14.348min (-0.018) 0.60ng

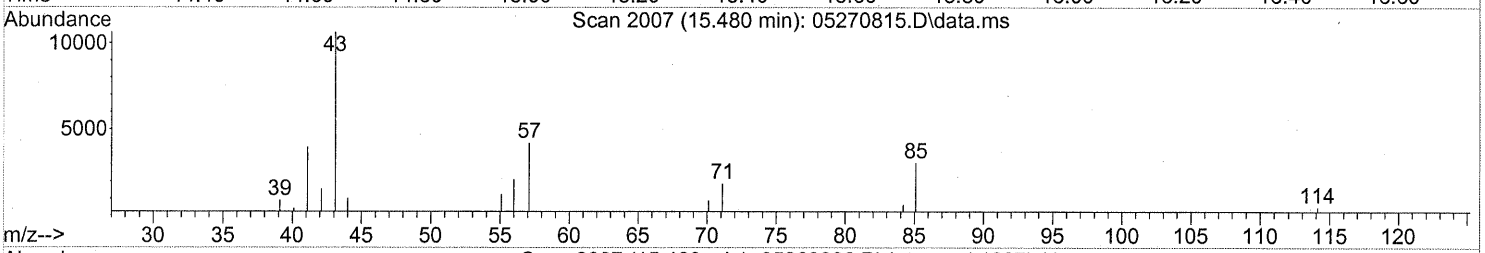
response 45948

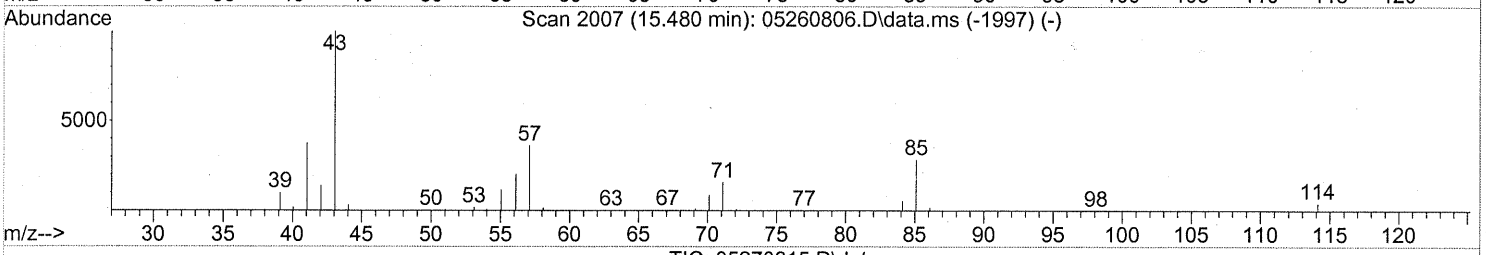
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	58.60
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270815.D\data.ms

(63) n-Octane (T)

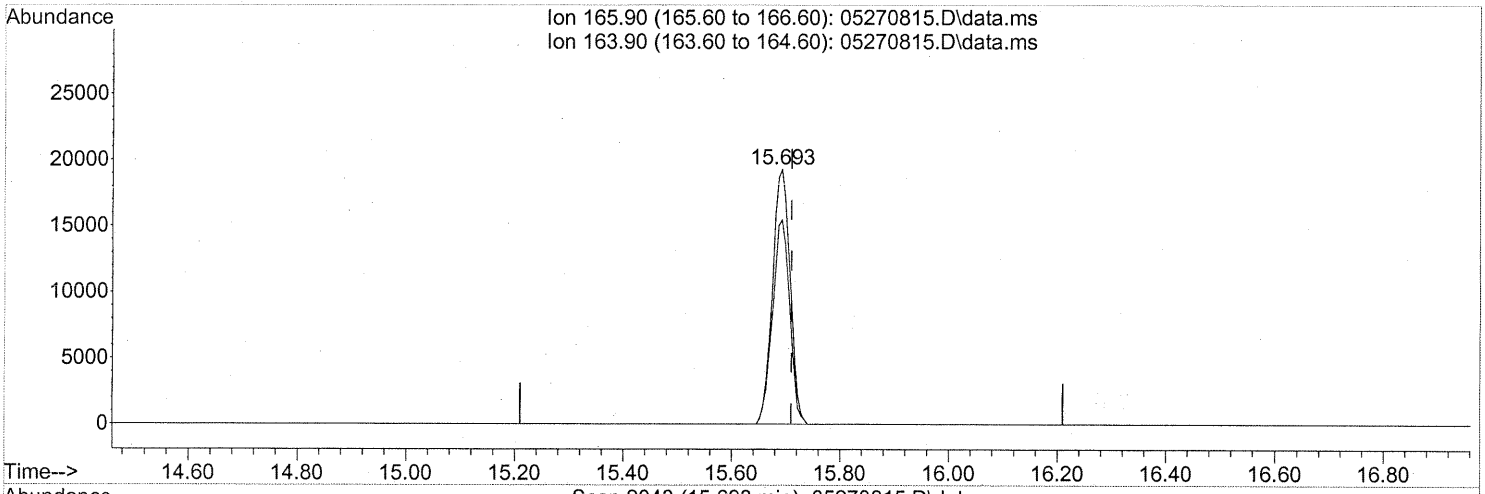
15.480min (-0.012) 0.33ng

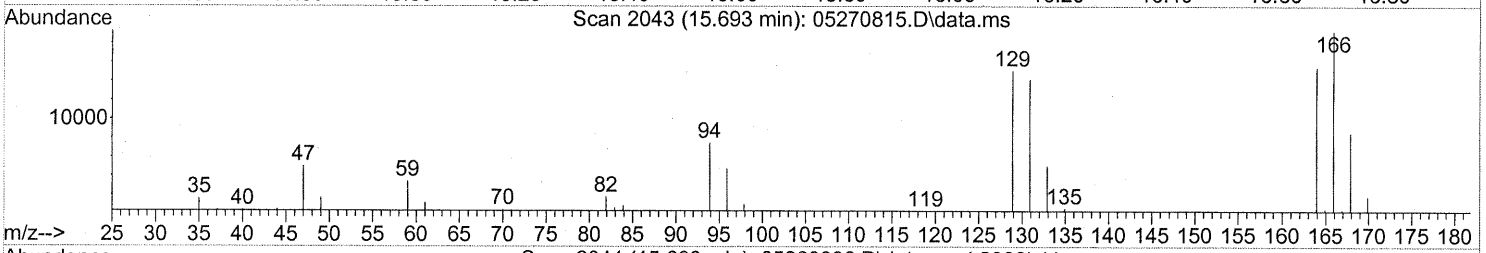
response 7682

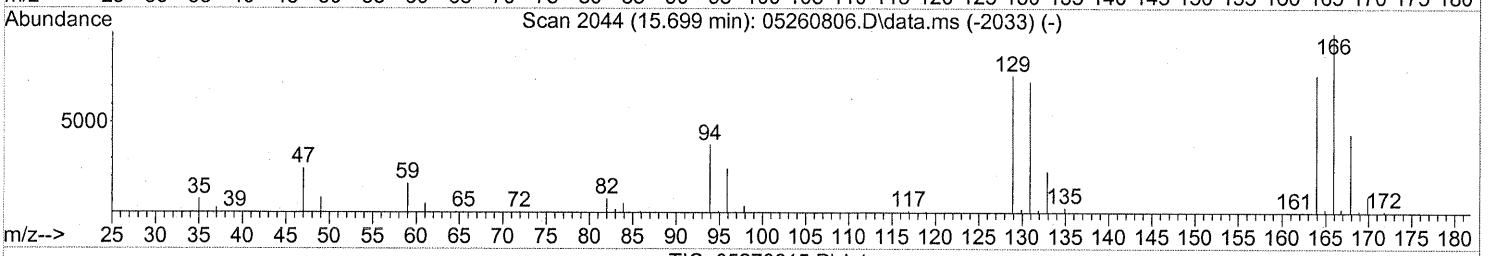
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	7.42
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270815.D\data.ms

(64) Tetrachloroethene (T)

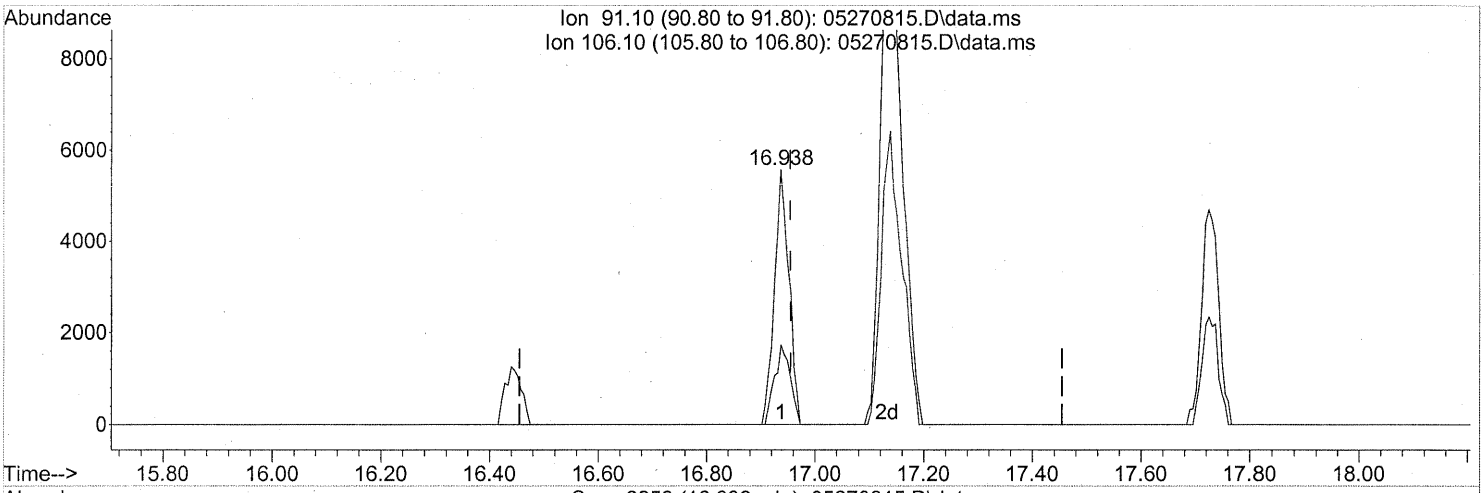
15.693min (-0.018) 1.92ng

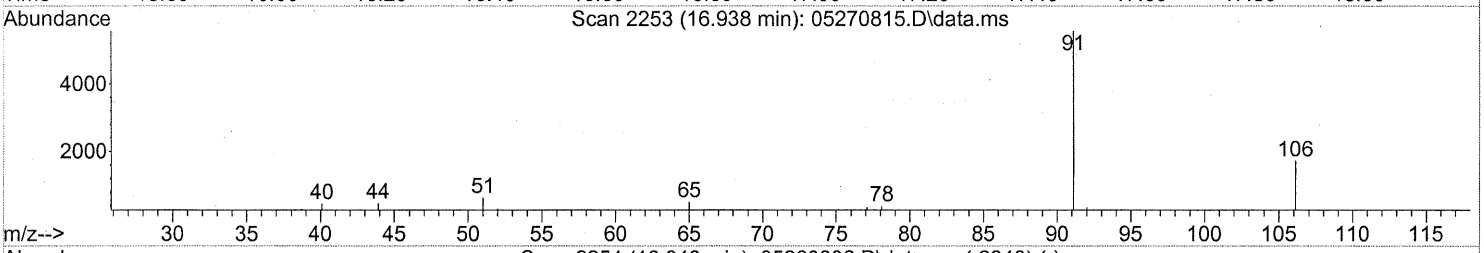
response 43490

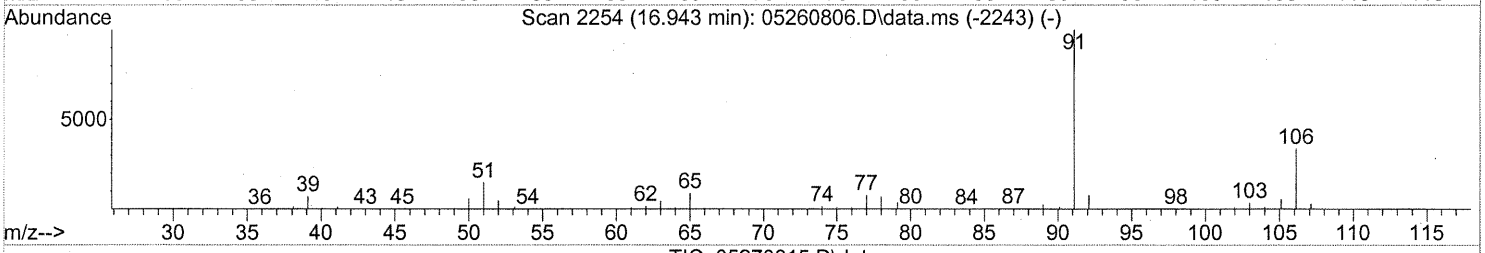
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.56
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270815.D\data.ms

(66) Ethylbenzene (T)

16.938min (-0.018) 0.12ng

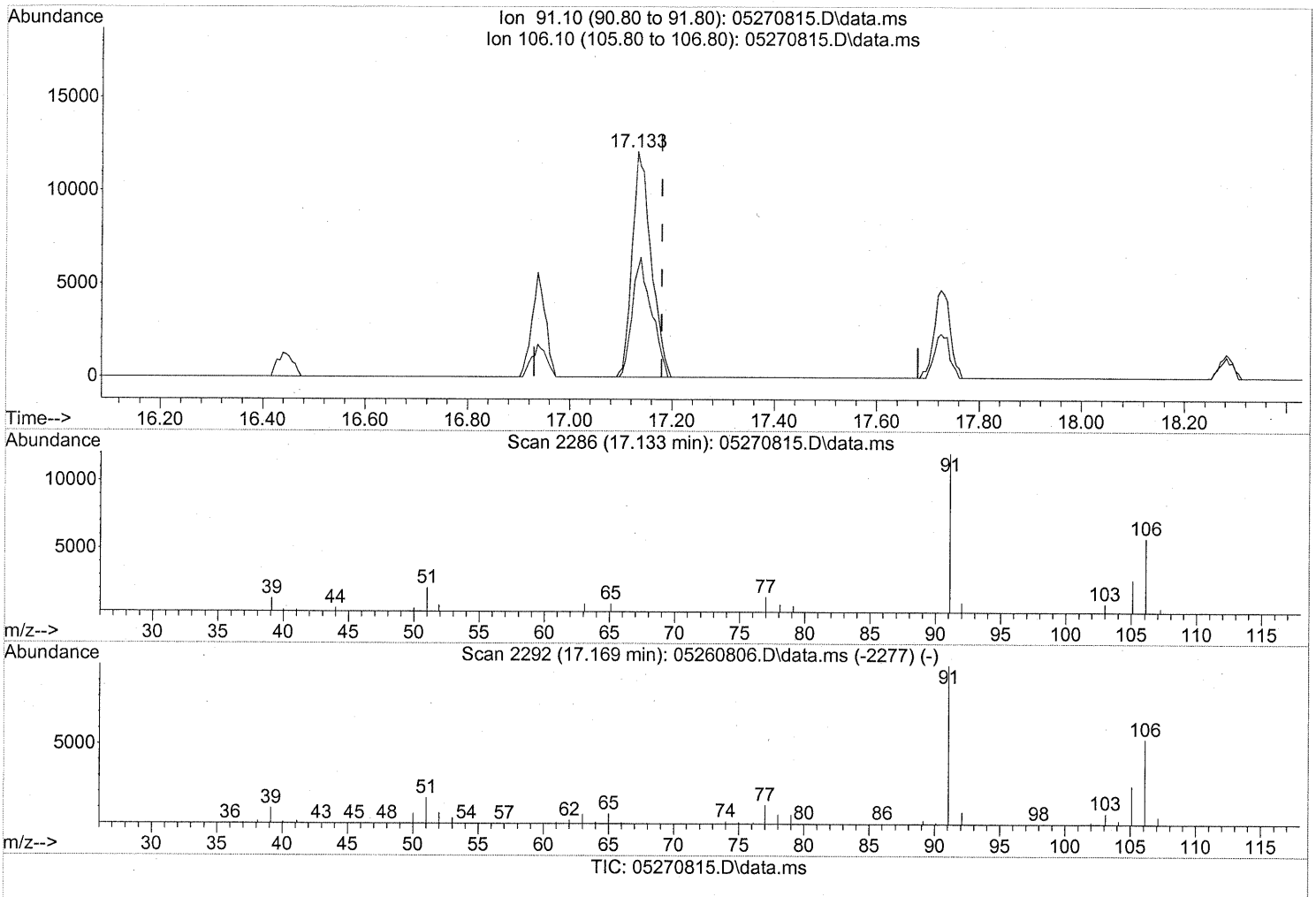
response 10306

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	33.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270815.D\data.ms

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

17.133min (-0.047) 0.54ng

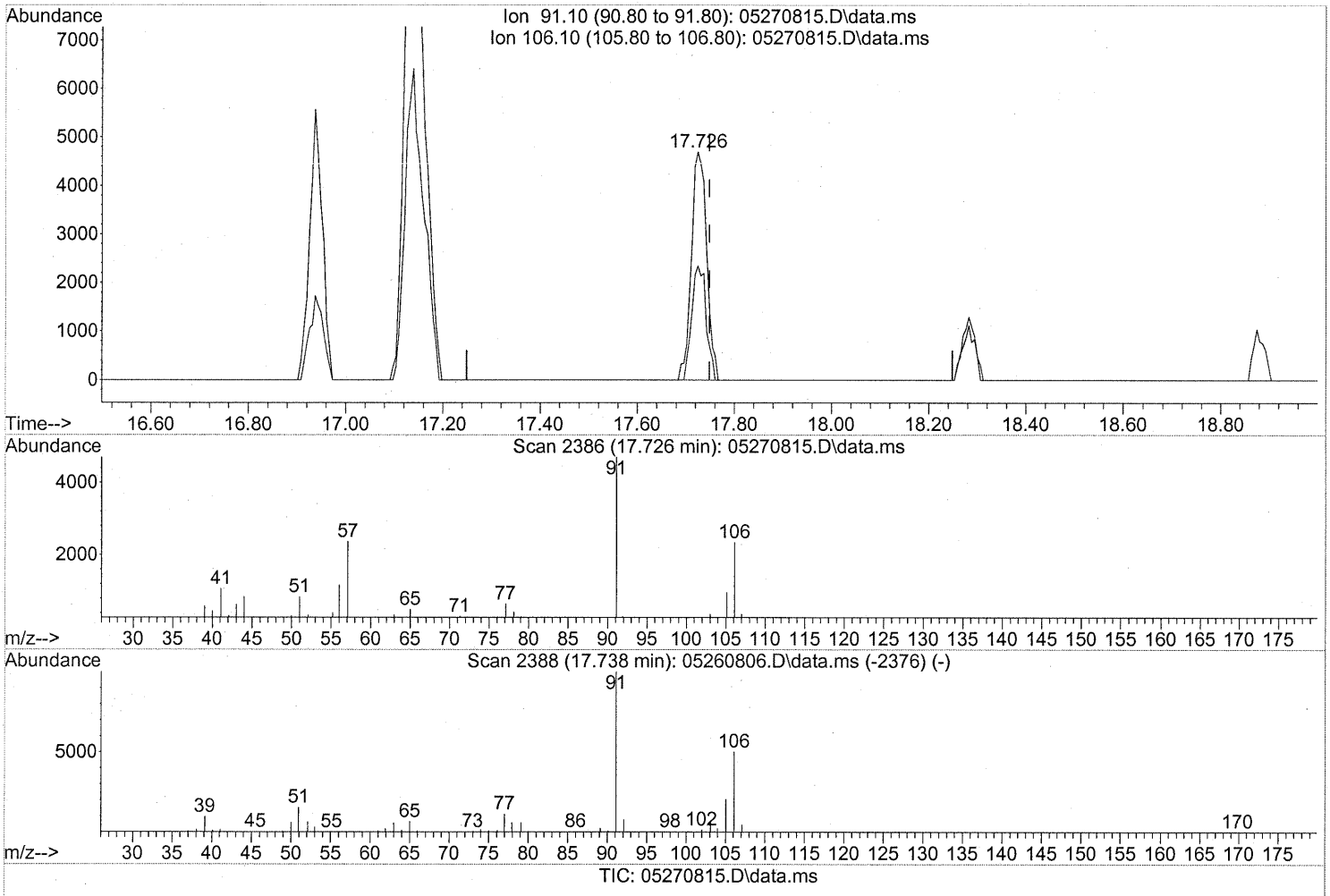
response 31424

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 28 04:47:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270815.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.17ng

response 10254

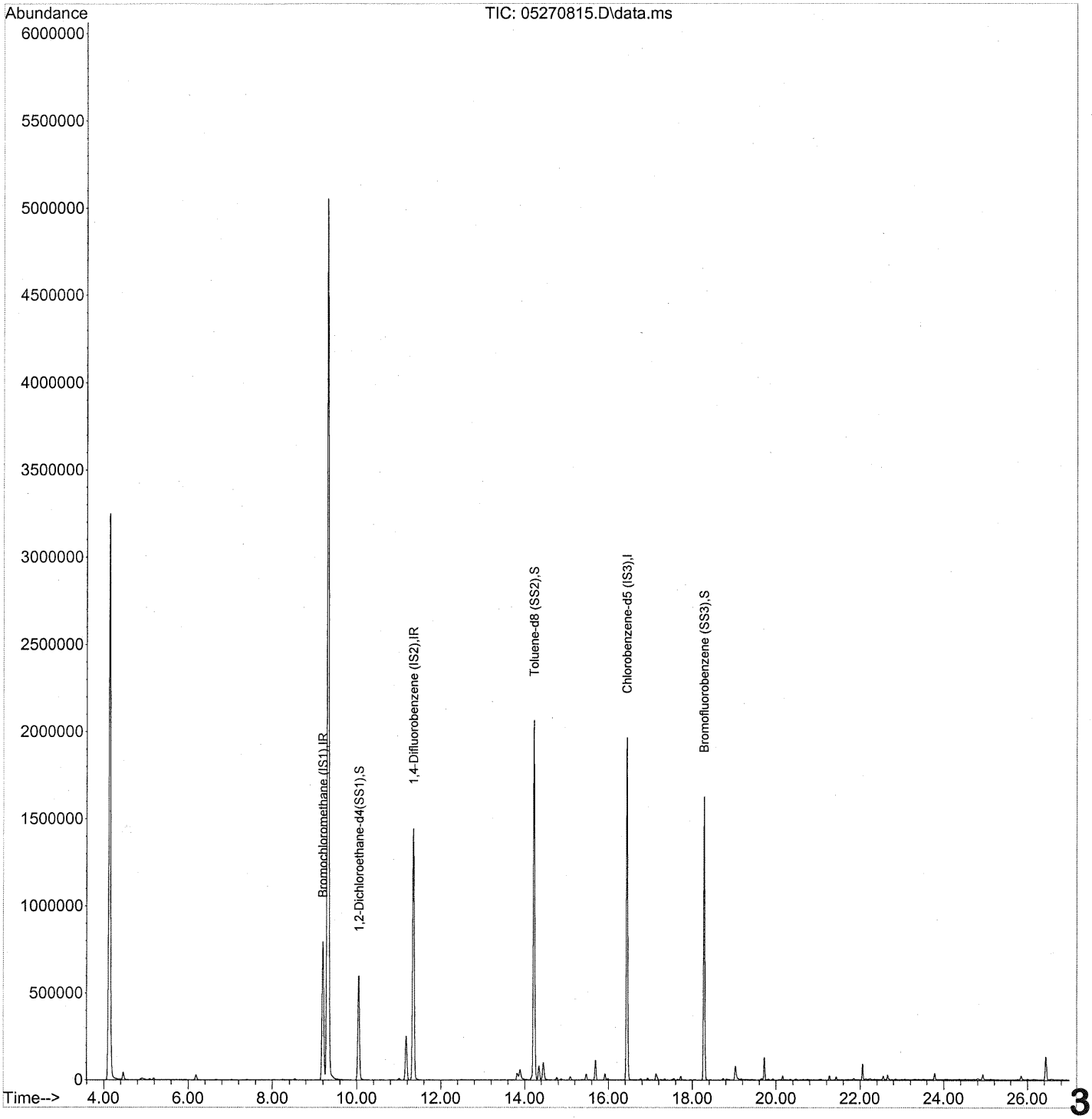
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	47.24
0.00	0.00	0.00
0.00	0.00	0.00

380

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 04 14:39:26 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270815.D
Acq On : 27 May 2008 21:42
Operator : WA
Sample : P0801507-010 (25ml)
Misc : ENSR SG55B-05 (-3.8, 3.8)
ALS Vial : 6 Sample Multiplier: 1

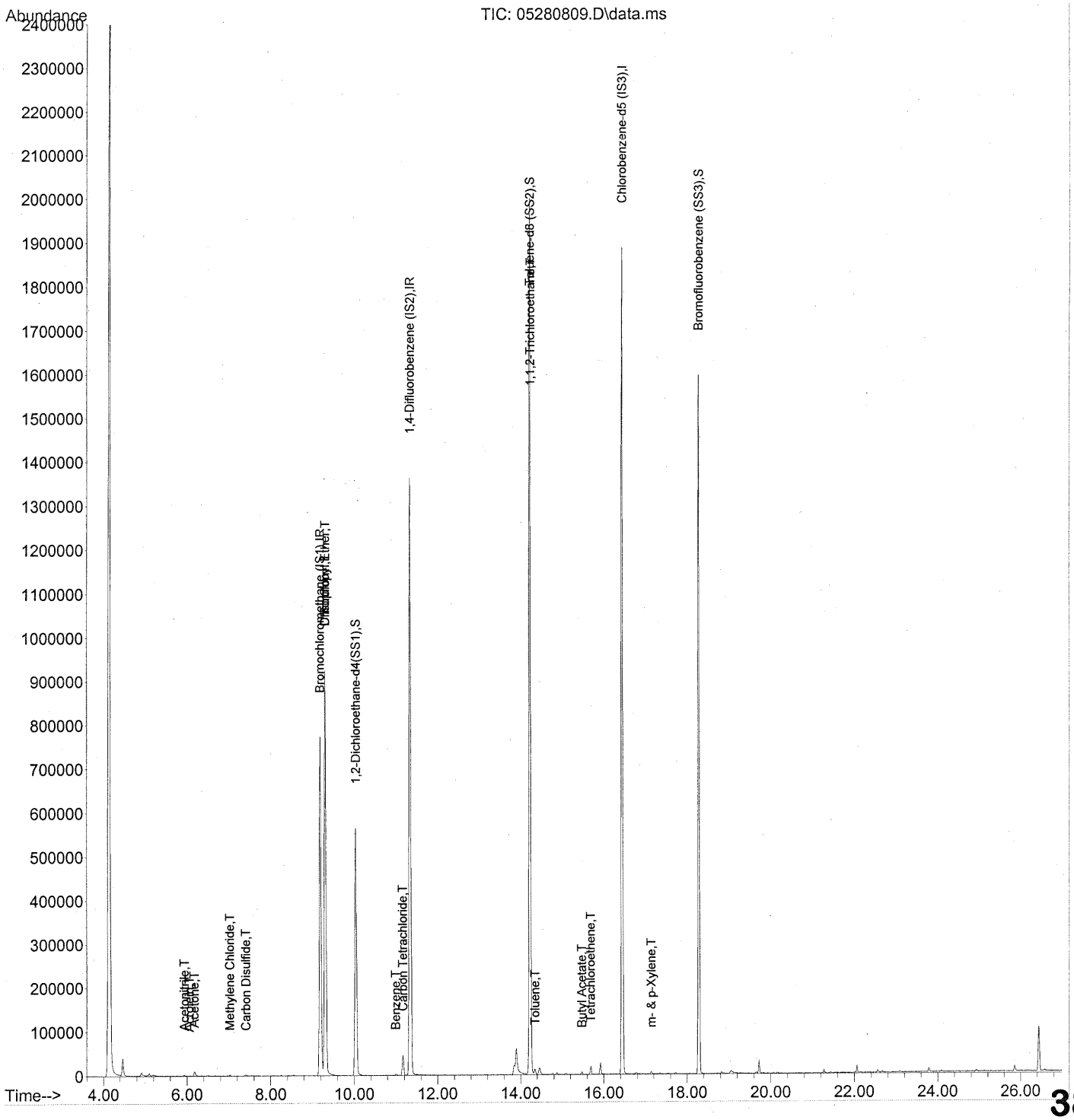
Quant Time: Jun 04 14:39:26 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	390977	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1623936	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	656497	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	558634	24.988	ng	-0.04
Spiked Amount 25.000			Recovery = 99.96%			
5) Toluene-d8 (SS2)	14.23	98	1651846	24.406	ng	-0.02
Spiked Amount 25.000			Recovery = 97.64%			
6) Bromofluorobenzene (SS3)	18.28	174	576224	25.607	ng	-0.01
Spiked Amount 25.000			Recovery = 102.44%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	415	N.D.		
8) n-Butylbenzene	20.85	91	598	N.D.		

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

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280809.D
Acq On : 28 May 2008 2:59 pm
Operator : WA
Sample : P0801507-010 Dil (5.0ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) DM 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280809.D
Acq On : 28 May 2008 2:59 pm
Operator : WA
Sample : P0801507-010 Dil (5.0ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) DA 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	372167	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1552178	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	637423	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	531839	24.992	ng		-0.05
Spiked Amount 25.000			Recovery =	99.96%			
57) Toluene-d8 (SS2)	14.22	98	1596148	24.289	ng		-0.02
Spiked Amount 25.000			Recovery =	97.16%			
73) Bromofluorobenzene (SS3)	18.28	174	567862	25.990	ng		-0.01
Spiked Amount 25.000			Recovery =	103.96%			
Target Compounds							Qvalue
2) Propene	4.46	42	919	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	0.00	45	0	N.D.			
11) Acetonitrile	5.93	41	2842	0.050	ng	#	20
12) Acrolein	6.05	56	706	0.050	ng	#	73
13) Acetone	6.17	58	5847	0.301	ng	#	65
14) Trichlorofluoromethane	6.34	101	99	N.D.			
15) Isopropanol	6.40	45	99	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	7.00	59	118	N.D.			
19) Methylene Chloride	7.02	84	935	0.062	ng	#	9
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	3821	0.063	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	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	9.31	87	100897	7.534	ng	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	0.00	57	0	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280809.D
Acq On : 28 May 2008 2:59 pm
Operator : WA
Sample : P0801507-010 Dil (5.0ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	922855	42.021	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	0.00	56	0	N.D.			
41) Benzene	10.99	78	3344	0.051	ng		85
42) Carbon Tetrachloride	11.17	117	37085	1.382	ng		98
43) Cyclohexane	11.31	84	303	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	12.24	57	204	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	14.24	97	136248	8.560	ng	#	7
58) Toluene	14.34	91	6869	0.092	ng		99
59) 2-Hexanone	14.60	43	789	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	3709	0.052	ng	#	77
63) n-Octane	15.47	57	1055	N.D.			
64) Tetrachloroethene	15.69	166	7140	0.324	ng		96
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	1655	N.D.			
67) m- & p-Xylene	17.14	91	5862	0.104	ng		98
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	1794	N.D.			
71) n-Nonane	17.99	43	196	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.28	105	695	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	19.19	105	646	N.D.			
78) 4-Ethyltoluene	19.19	105	646	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	310	N.D.			

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280809.D
Acq On : 28 May 2008 2:59 pm
Operator : WA
Sample : P0801507-010 Dil (5.0ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

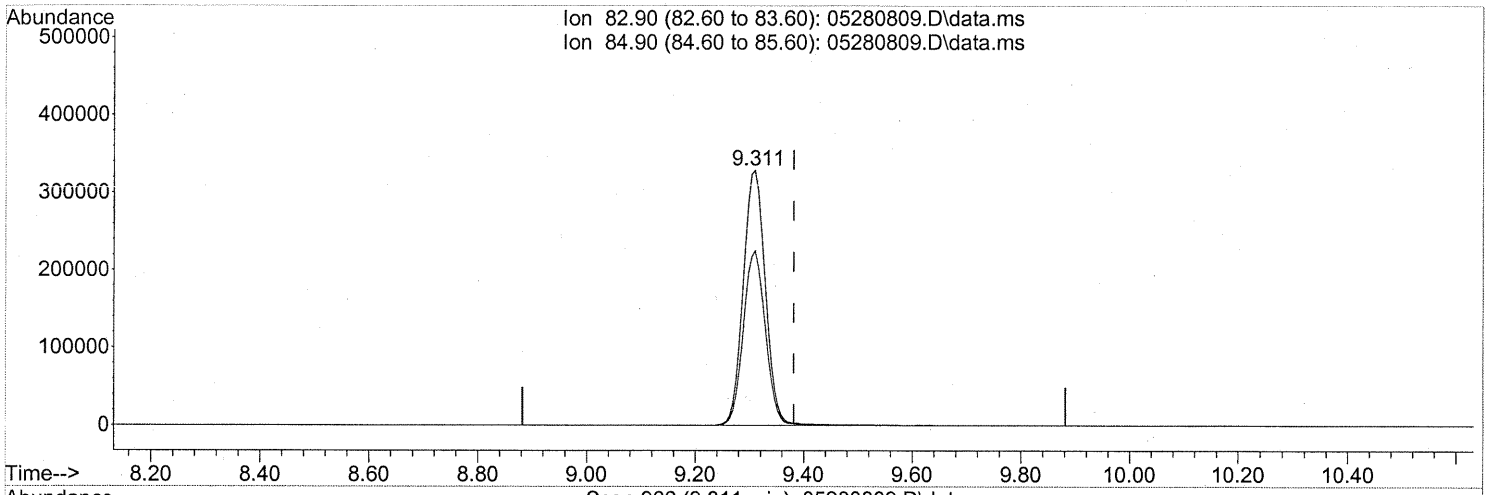
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.		
81) 2-Ethyltoluene	19.56	105	125	N.D.		
82) 1,2,4-Trimethylbenzene	19.82	105	625	N.D.		
83) n-Decane	19.92	57	577	N.D.		
84) Benzyl Chloride	0.00	91	0	N.D.		
85) 1,3-Dichlorobenzene	0.00	146	0	N.D.		
86) 1,4-Dichlorobenzene	0.00	146	0	N.D.		
87) sec-Butylbenzene	20.34	105	181	N.D.		
88) p-Isopropyltoluene	0.00	119	0	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	181	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	21.42	57	1028	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	1129	N.D.		
96) n-Dodecane	22.66	57	1355	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

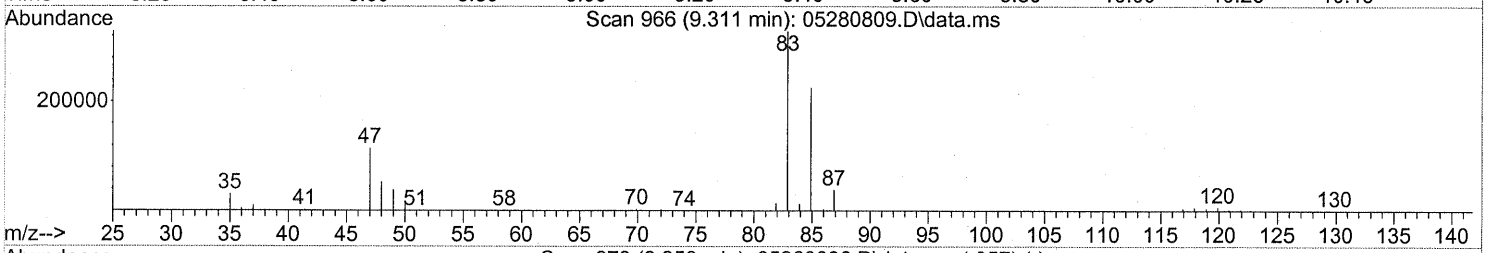
(#) = qualifier out of range (m) = manual integration (+) = signals summed

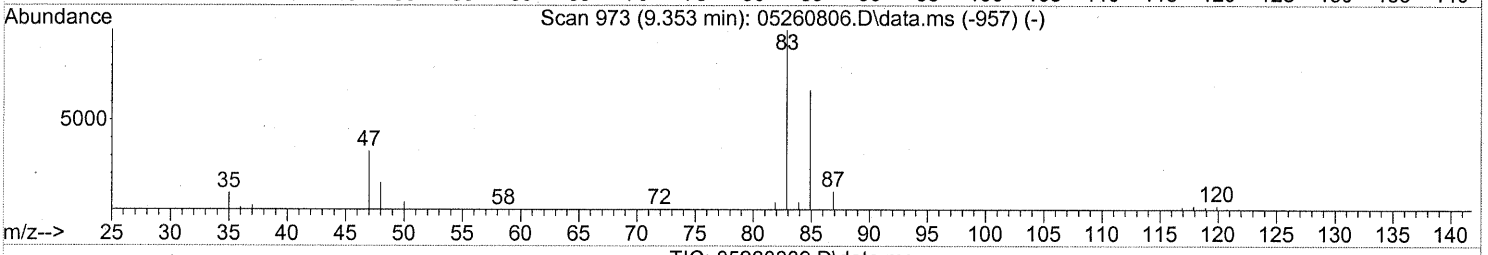
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280809.D
Acq On : 28 May 2008 14:59
Operator : WA
Sample : P0801507-010 Dil (5.0ml)
Misc : ENSR SG55B-05D (-3.8, 3.8) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:20 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05280809.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 42.02ng

response 922855

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.22
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	Dichlorodifluoromethane (CFC 12)	ND	40	4.0	ND	8.1	0.81	
74-87-3	Chloromethane	ND	8.1	4.0	ND	3.9	1.9	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	40	4.0	ND	5.8	0.58	
75-01-4	Vinyl Chloride	ND	8.1	4.0	ND	3.2	1.6	
74-83-9	Bromomethane	ND	8.1	4.0	ND	2.1	1.0	
75-00-3	**Chloroethane**	**54**	8.1	4.0	**21**	3.1	1.5	
64-17-5	Ethanol	ND	400	4.0	ND	210	2.1	
67-64-1	**Acetone**	**29**	400	5.9	**12**	170	2.5	**J, B**
75-69-4	Trichlorofluoromethane	ND	8.1	4.0	ND	1.4	0.72	
107-13-1	Acrylonitrile	ND	40	5.6	ND	19	2.6	
75-35-4	1,1-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	40	6.0	ND	13	2.0	
75-09-2	**Methylene Chloride**	**36**	40	4.0	**10**	12	1.2	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	8.1	4.0	ND	2.6	1.3	
76-13-1	Trichlorotrifluoroethane	ND	8.1	4.5	ND	1.1	0.59	
75-15-0	Carbon Disulfide	ND	40	9.7	ND	13	3.1	
156-60-5	trans-1,2-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
75-34-3	**1,1-Dichloroethane**	**110**	8.1	4.0	**26**	2.0	0.99	
1634-04-4	Methyl tert-Butyl Ether	ND	8.1	4.0	ND	2.2	1.1	
108-05-4	Vinyl Acetate	ND	400	13	ND	110	3.7	
78-93-3	2-Butanone (MEK)	ND	40	4.0	ND	14	1.4	
156-59-2	cis-1,2-Dichloroethene	ND	8.1	4.0	ND	2.0	1.0	
108-20-3	Diisopropyl Ether	ND	40	4.7	ND	9.6	1.1	
67-66-3	**Chloroform**	**29,000**	8.1	4.7	**5,900**	1.6	0.97	**B**

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	40	4.1	ND	9.6	0.98	
107-06-2	**1,2-Dichloroethane**	**31**	8.1	4.0	**7.6**	2.0	0.99	
71-55-6	1,1,1-Trichloroethane	ND	8.1	4.0	ND	1.5	0.74	
71-43-2	**Benzene**	**9.4**	8.1	4.0	**2.9**	2.5	1.3	**B**
56-23-5	Carbon Tetrachloride	ND	8.1	4.0	ND	1.3	0.64	
994-05-8	tert-Amyl Methyl Ether	ND	40	4.0	ND	9.6	0.96	
78-87-5	1,2-Dichloropropane	ND	8.1	4.0	ND	1.7	0.87	
75-27-4	Bromodichloromethane	ND	8.1	4.0	ND	1.2	0.60	
79-01-6	Trichloroethene	ND	8.1	4.0	ND	1.5	0.75	
123-91-1	1,4-Dioxane	ND	40	4.9	ND	11	1.4	
80-62-6	Methyl Methacrylate	ND	40	6.0	ND	9.8	1.5	
142-82-5	n-Heptane	ND	40	5.2	ND	9.8	1.3	
10061-01-5	cis-1,3-Dichloropropene	ND	40	4.2	ND	8.9	0.92	
108-10-1	4-Methyl-2-pentanone	ND	40	4.5	ND	9.8	1.1	
10061-02-6	trans-1,3-Dichloropropene	ND	40	5.1	ND	8.9	1.1	
79-00-5	1,1,2-Trichloroethane	ND	8.1	4.0	ND	1.5	0.74	
108-88-3	**Toluene**	**45**	40	4.0	**12**	11	1.1	
591-78-6	2-Hexanone	ND	40	6.1	ND	9.8	1.5	
124-48-1	Dibromochloromethane	ND	8.1	5.5	ND	0.95	0.64	
106-93-4	1,2-Dibromoethane	ND	8.1	4.3	ND	1.0	0.57	
111-65-9	**n-Octane**	**28**	40	4.0	**5.9**	8.6	0.86	**J**
127-18-4	**Tetrachloroethene**	**84**	8.1	4.0	**12**	1.2	0.59	
108-90-7	Chlorobenzene	ND	8.1	4.1	ND	1.7	0.89	

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: 6/5/08

Client: **ENSR**
Client Sample ID: **SG57B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-011

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC01021

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.020 Liter(s)
0.0020 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**9.2**	40	5.0	**2.1**	9.3	1.1	**J**
179601-23-1	**m,p-Xylenes**	**46**	40	10	**11**	9.3	2.4	
75-25-2	Bromoform	ND	40	6.1	ND	3.9	0.59	
100-42-5	Styrene	ND	40	6.1	ND	9.5	1.4	
95-47-6	**o-Xylene**	**16**	40	5.1	**3.7**	9.3	1.2	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	8.1	5.2	ND	1.2	0.75	
98-82-8	Cumene	ND	40	4.5	ND	8.2	0.92	
103-65-1	n-Propylbenzene	ND	40	4.2	ND	8.2	0.85	
622-96-8	4-Ethyltoluene	ND	40	4.6	ND	8.2	0.93	
108-67-8	1,3,5-Trimethylbenzene	ND	40	4.8	ND	8.2	0.98	
98-83-9	alpha-Methylstyrene	ND	40	5.9	ND	8.3	1.2	
95-63-6	1,2,4-Trimethylbenzene	ND	40	5.6	ND	8.2	1.1	
100-44-7	Benzyl Chloride	ND	8.1	6.9	ND	1.6	1.3	
541-73-1	1,3-Dichlorobenzene	ND	8.1	5.0	ND	1.3	0.83	
106-46-7	**1,4-Dichlorobenzene**	**17**	8.1	4.5	**2.8**	1.3	0.75	
135-98-8	sec-Butylbenzene	ND	40	4.7	ND	7.3	0.85	
99-87-6	4-Isopropyltoluene (p-Cymene)	ND	40	5.2	ND	7.3	0.95	
95-50-1	1,2-Dichlorobenzene	ND	8.1	5.3	ND	1.3	0.88	
96-12-8	1,2-Dibromo-3-chloropropane	ND	40	6.1	ND	4.2	0.63	
120-82-1	**1,2,4-Trichlorobenzene**	**8.9**	8.1	6.1	**1.2**	1.1	0.82	
91-20-3	Naphthalene	ND	16	6.0	ND	3.1	1.1	
87-68-3	Hexachlorobutadiene	ND	8.1	7.2	ND	0.75	0.68	
98-06-6	tert-Butylbenzene	ND	16	4.0	ND	2.9	0.73	
104-51-8	n-Butylbenzene	ND	16	4.0	ND	2.9	0.73	

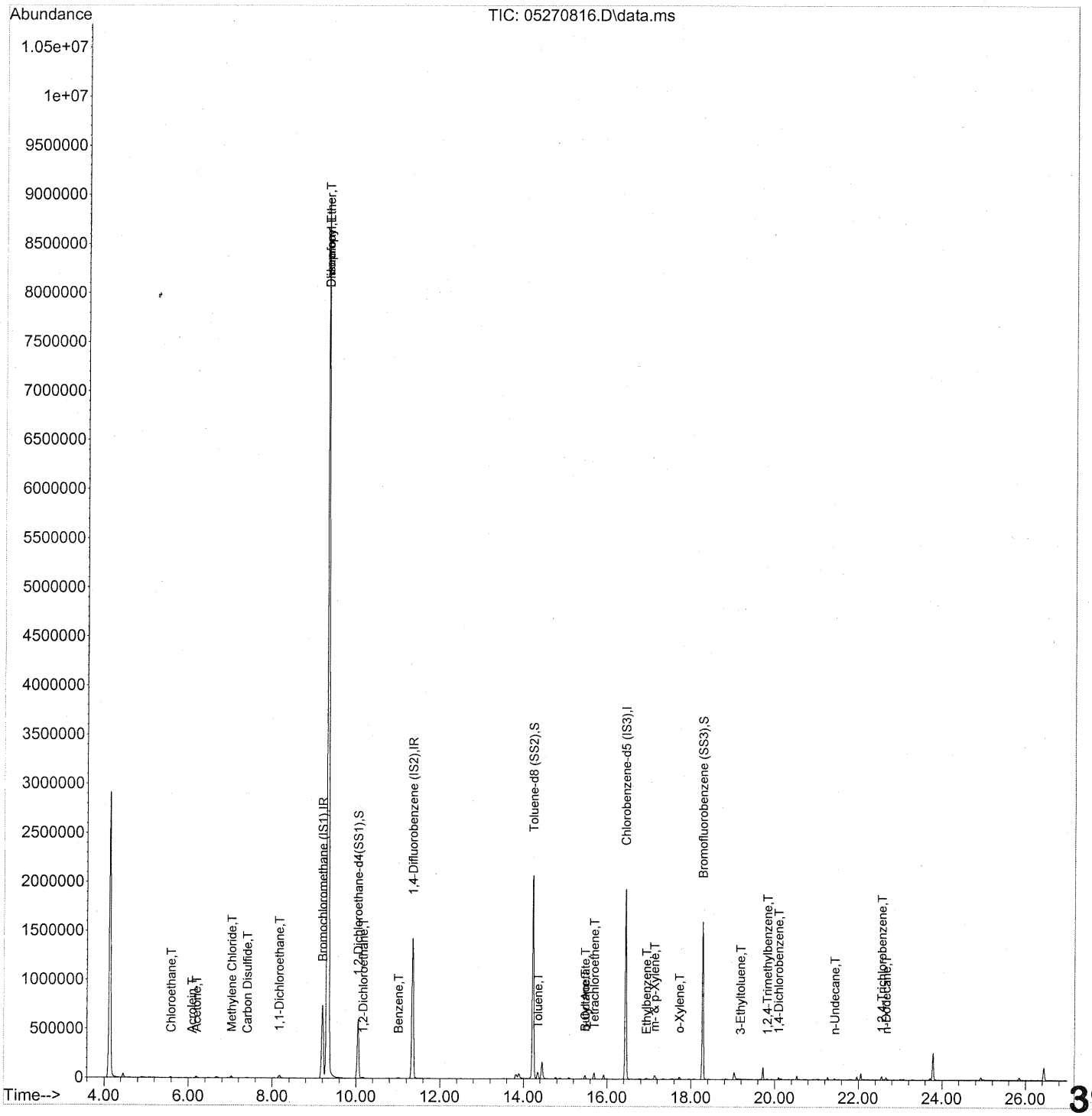
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	388924	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1619160	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	656839	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	556899	25.042	ng		-0.05
Spiked Amount 25.000			Recovery =	100.16%			
57) Toluene-d8 (SS2)	14.23	98	1646381	24.313	ng		-0.02
Spiked Amount 25.000			Recovery =	97.24%			
73) Bromofluorobenzene (SS3)	18.28	174	578697	25.703	ng		-0.01
Spiked Amount 25.000			Recovery =	102.80%			
Target Compounds							Qvalue
2) Propene	4.46	42	731	N.D.			
3) Dichlorodifluoromethane	4.56	85	588	N.D.			
4) Chloromethane	4.75	50	105	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	4.99	62	366	N.D.			
7) 1,3-Butadiene	0.00	54	0	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	5.59	64	10164	0.675	ng		95
10) Ethanol	5.70	45	245	N.D.			
11) Acetonitrile	5.95	41	2836	N.D.			
12) Acrolein	6.09	56	848	0.058	ng	#	41
13) Acetone	6.19	58	7406	0.364	ng	#	64
14) Trichlorofluoromethane	6.32	101	103	N.D.			
15) Isopropanol	6.37	45	430	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	6.93	96	654	N.D.			
18) tert-Butanol	0.00	59	0	N.D.			
19) Methylene Chloride	7.03	84	6931	0.442	ng	#	33
20) Allyl Chloride	7.02	41	414	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.41	76	3433	~~0.054~~	ng		82
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	44134	1.326	ng		93
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.54	72	343	N.D.			
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.			
29) Diisopropyl Ether	9.32	87	1070825	~~76.514~~	ng UR	#	1
30) Ethyl Acetate	0.00	61	0	N.D.			
31) n-Hexane	9.21	57	115	N.D.			

392

6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	9896310	~~431.200 ng~~ see dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	10.17	62	10043	0.382 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	10.79	56	705	N.D.		
41) Benzene	11.01	78	7964	0.117 ng		97
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	11.34	84	1138	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	12.13	83	440	N.D.		
47) Trichloroethene	12.18	130	91	N.D.		
48) 1,4-Dioxane	0.00	88	0	N.D.		
49) Isooctane	12.25	57	1237	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	13.18	58	100	N.D.		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.		
55) 1,1,2-Trichloroethane	13.98	97	582	N.D.		
58) Toluene	14.35	91	42537	0.554 ng		100
59) 2-Hexanone	14.58	43	1297	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.47	43	22054	0.302 ng	#	74
63) n-Octane	15.47	57	7951	0.342 ng		93
64) Tetrachloroethene	15.69	166	23573	1.038 ng		96
65) Chlorobenzene	16.50	112	2443	N.D.		
66) Ethylbenzene	16.94	91	9959	0.114 ng		96
67) m- & p-Xylene	17.13	91	33305	0.576 ng		89
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.59	104	315	N.D.		
70) o-Xylene	17.73	91	12346	0.199 ng		91
71) n-Nonane	17.97	43	1102	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.45	105	224	N.D.		
75) alpha-Pinene	19.04	93	1046	N.D.		
76) n-Propylbenzene	19.07	91	1470	N.D.		
77) 3-Ethyltoluene	19.18	105	5375	~~0.054 ng~~ NOT		93
78) 4-Ethyltoluene	19.24	105	2311	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	2523	N.D.		

393

JDT 6/9/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	693	N.D. ✓		
81) 2-Ethyltoluene	19.56	105	1949	N.D.		
82) 1,2,4-Trimethylbenzene	19.83	105	5360	~~0.067 ng~~		90
83) n-Decane	19.93	57	2246	N.D.		
84) Benzyl Chloride	19.83	91	365	N.D. ✓		
85) 1,3-Dichlorobenzene	20.02	146	1275	N.D. ✓		
86) 1,4-Dichlorobenzene	20.10	146	10436	0.212 ng		100
87) sec-Butylbenzene	20.16	105	181	N.D. ✓		
88) p-Isopropyltoluene	20.34	119	579	N.D. ✓		
89) 1,2,3-Trimethylbenzene	20.34	105	1573	N.D.		
90) 1,2-Dichlorobenzene	20.52	146	226	N.D. ✓		
91) d-Limonene	20.52	68	108	N.D.		
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D. ✓		
93) n-Undecane	21.43	57	6295	0.106 ng	#	66
94) 1,2,4-Trichlorobenzene	22.55	184	928	0.110 ng	#	90
95) Naphthalene	22.69	128	3856	N.D. ✓		
96) n-Dodecane	22.66	57	8932	0.154 ng	#	74
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D. ✓		

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

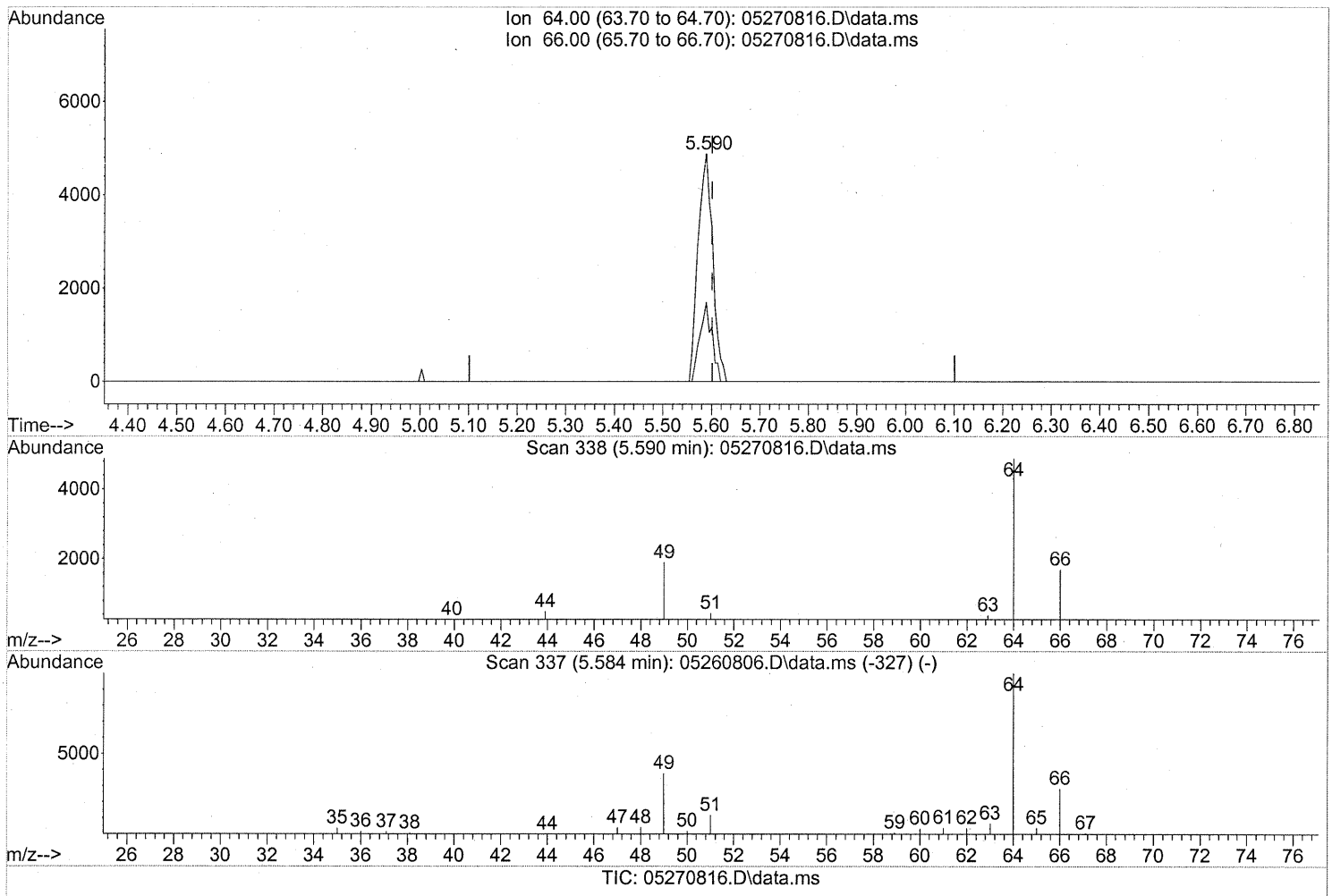
394

DA 6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(9) Chloroethane (T)

5.590min (-0.012) 0.68ng

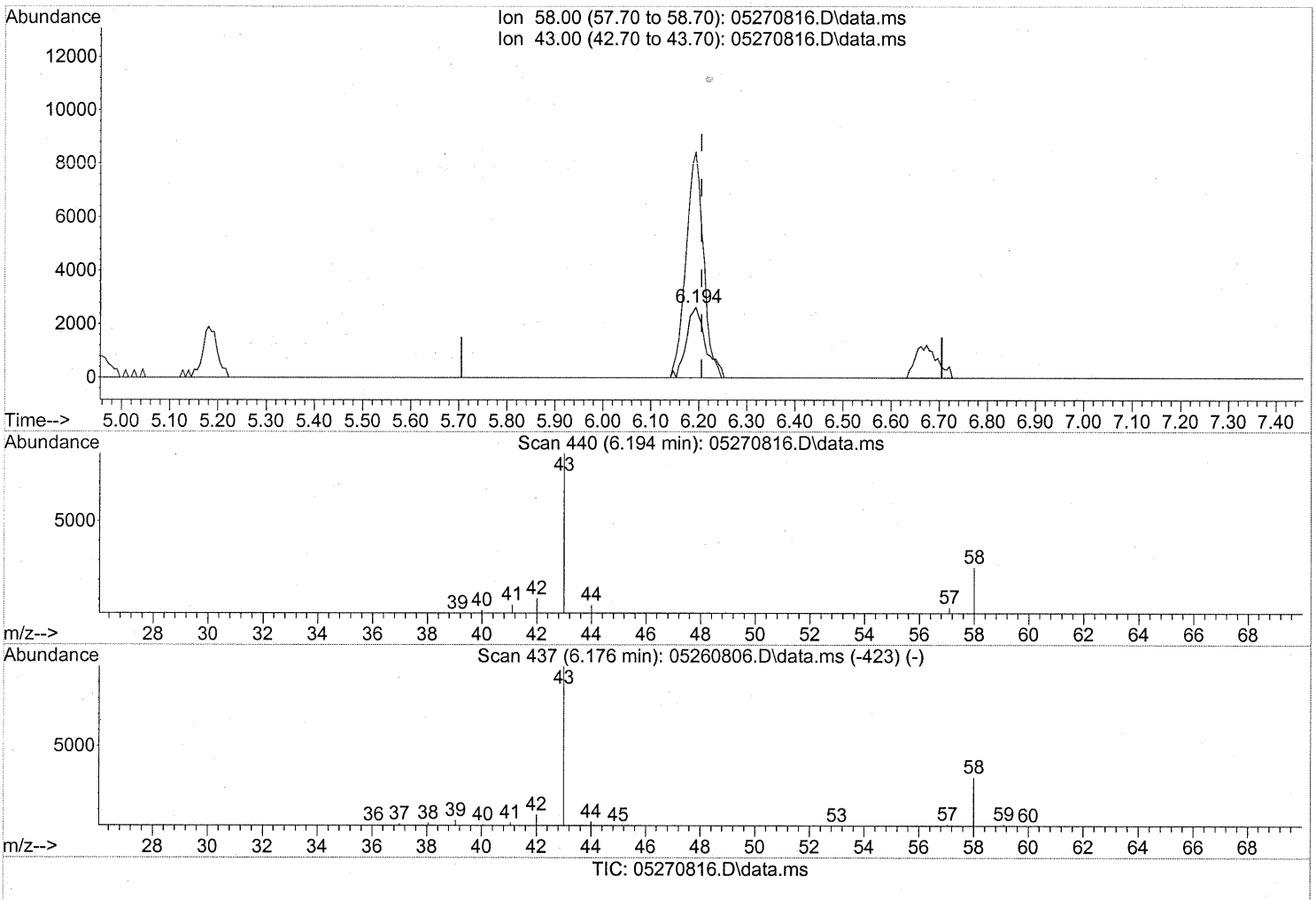
response 10164

Ion	Exp%	Act%
64.00	100	100
66.00	31.40	28.42
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(13) Acetone (T)

6.194min (-0.012) 0.36ng

response 7406

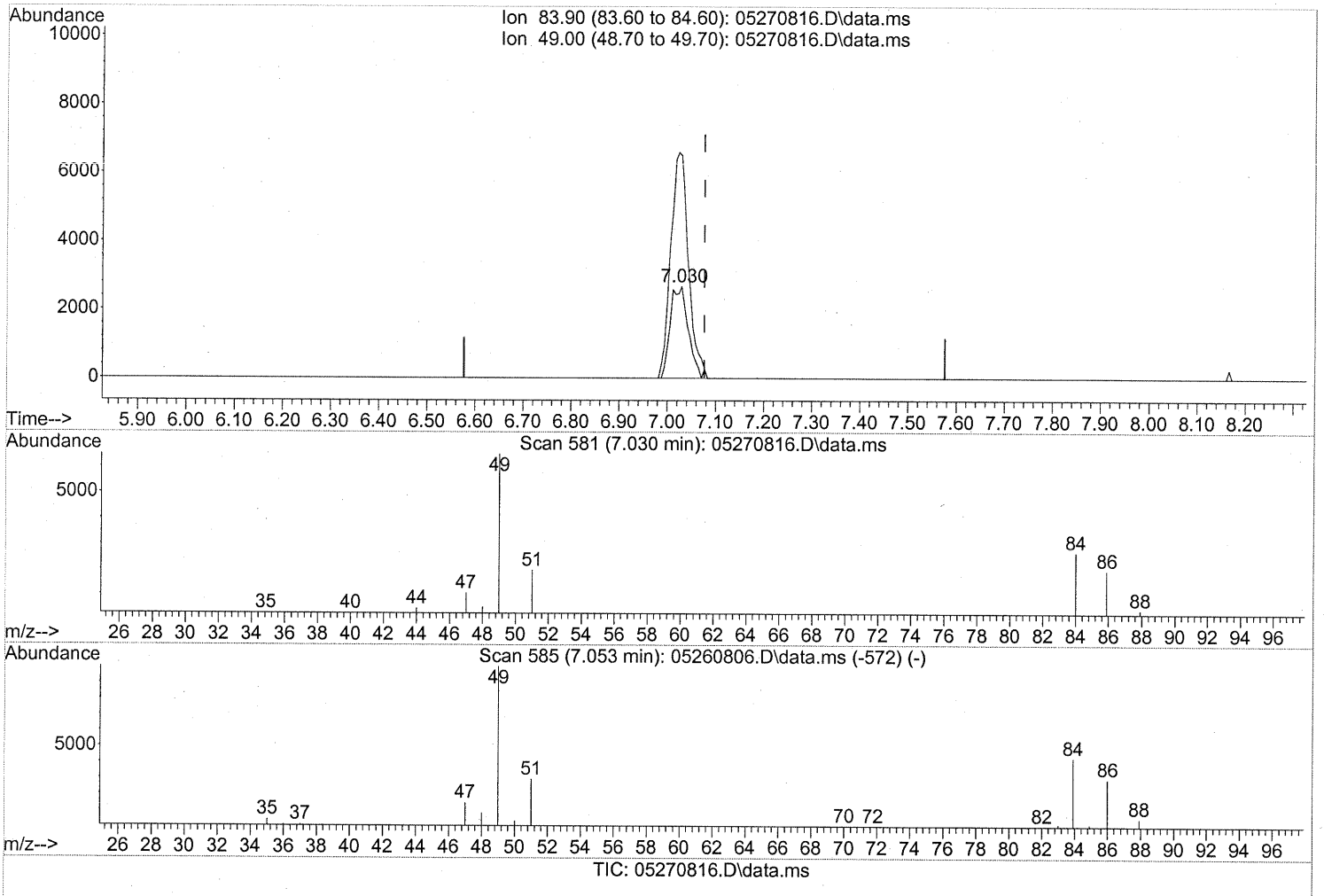
Ion	Exp%	Act%
58.00	100	100
43.00	368.40	288.16#
0.00	0.00	0.00
0.00	0.00	0.00

396

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(19) Methylene Chloride (T)

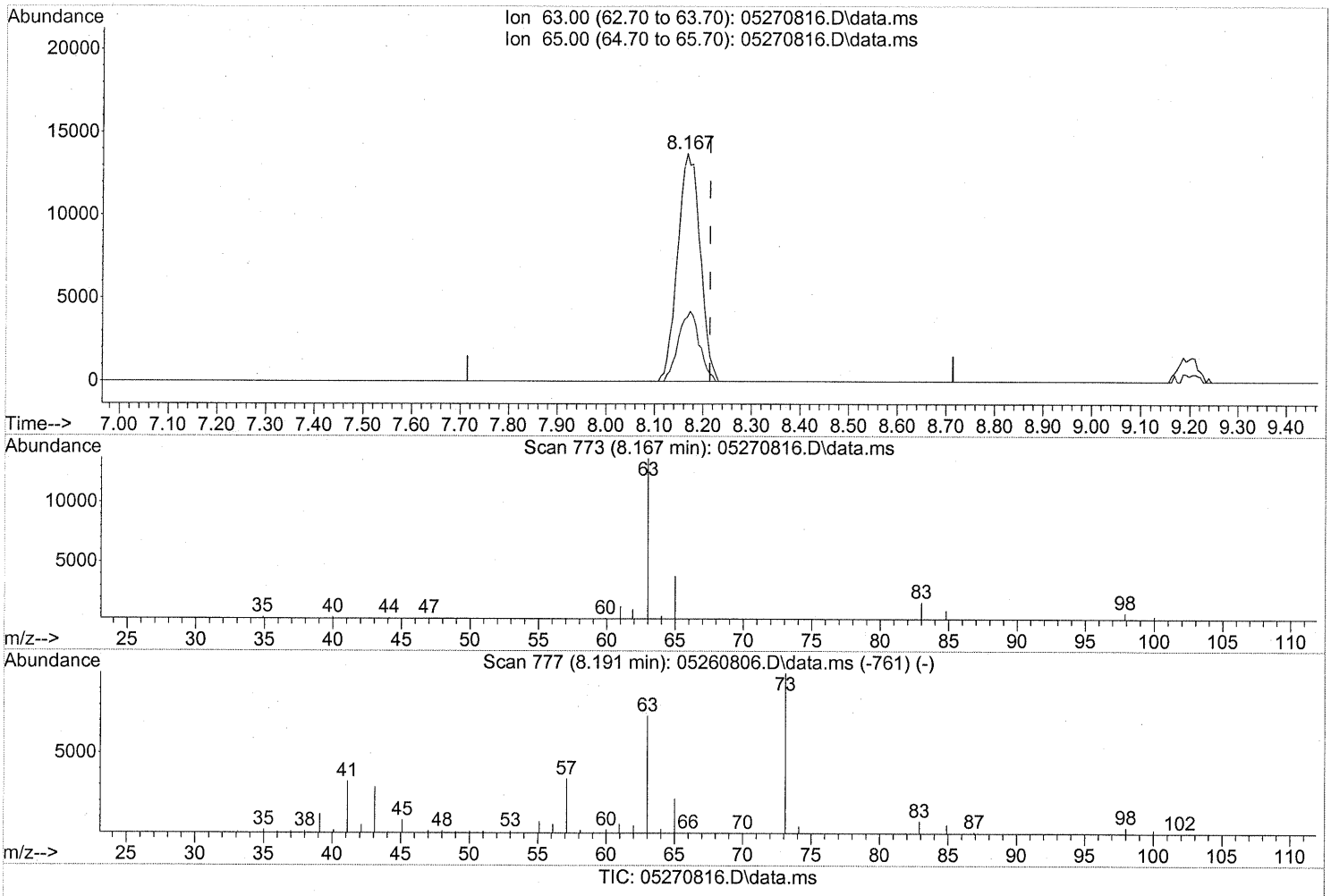
7.030min (-0.047) 0.44ng

response 6931

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	242.32#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(24) 1,1-Dichloroethane (T)

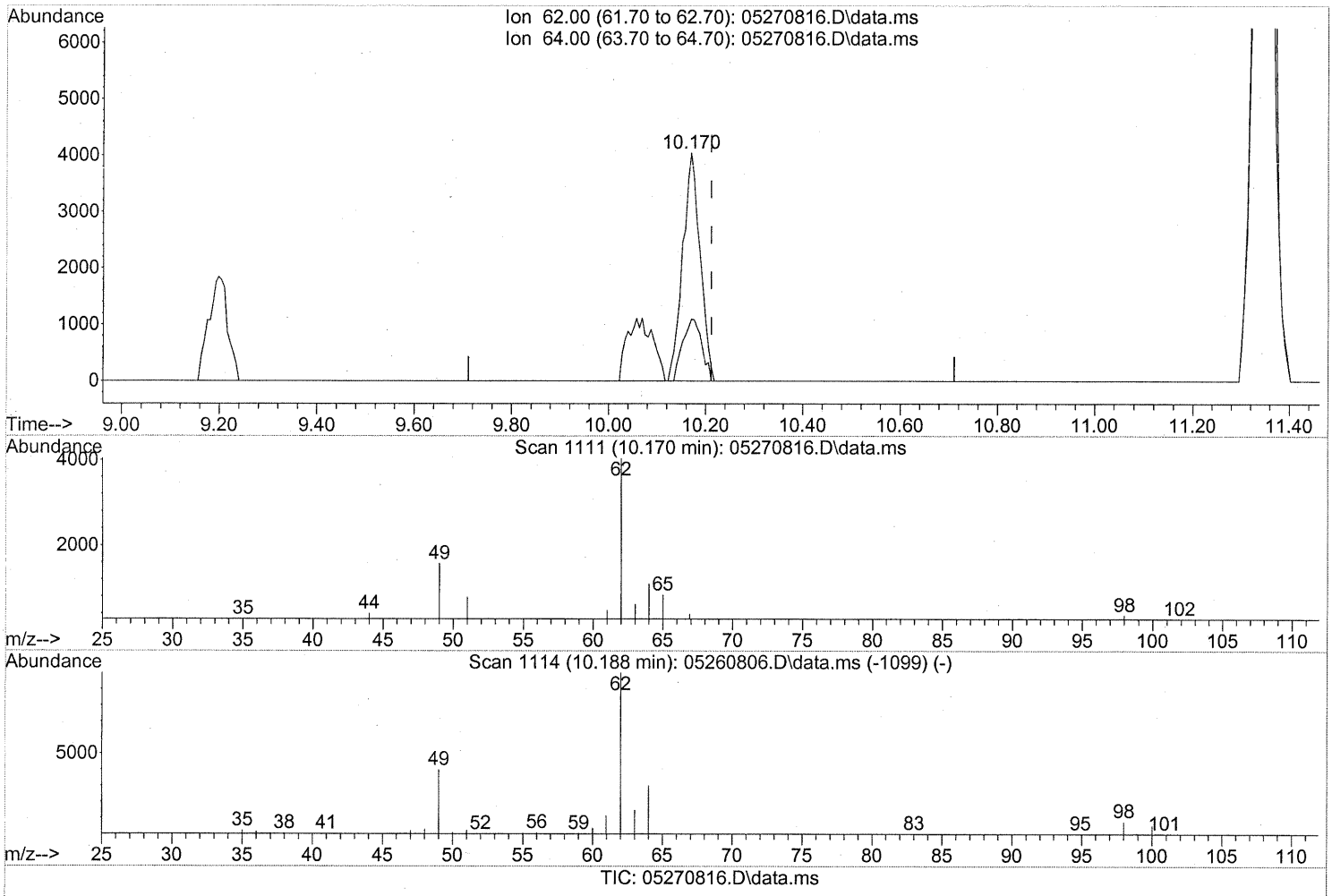
8.167min (-0.048) 1.33ng

response 44134

Ion	Exp%	Act%
63.00	100	100
65.00	32.20	28.50
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(36) 1,2-Dichloroethane (T)

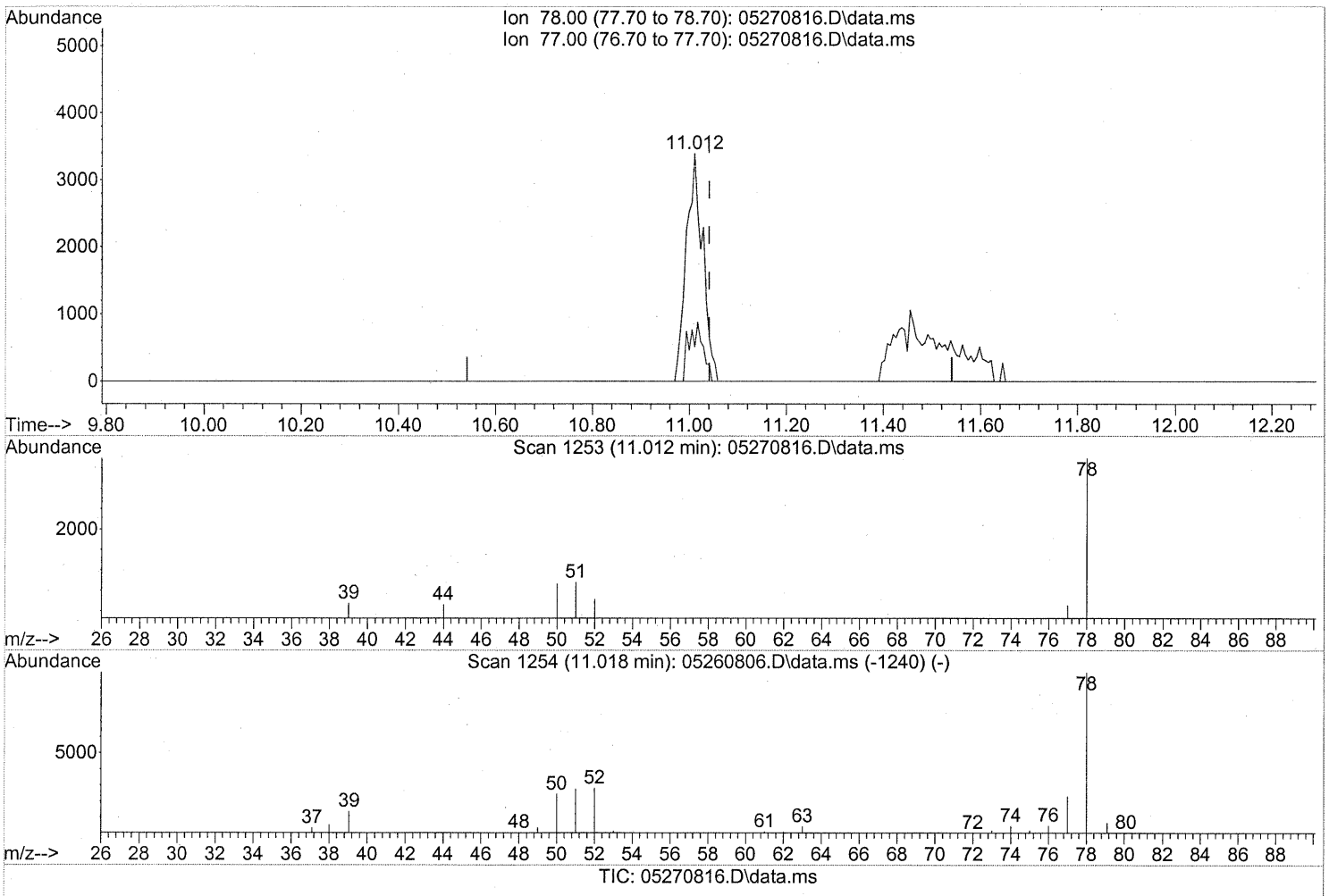
10.170min (-0.042) 0.38ng

response 10043

Ion	Exp%	Act%
62.00	100	100
64.00	32.50	29.41
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(41) Benzene (T)

11.012min (-0.030) 0.12ng

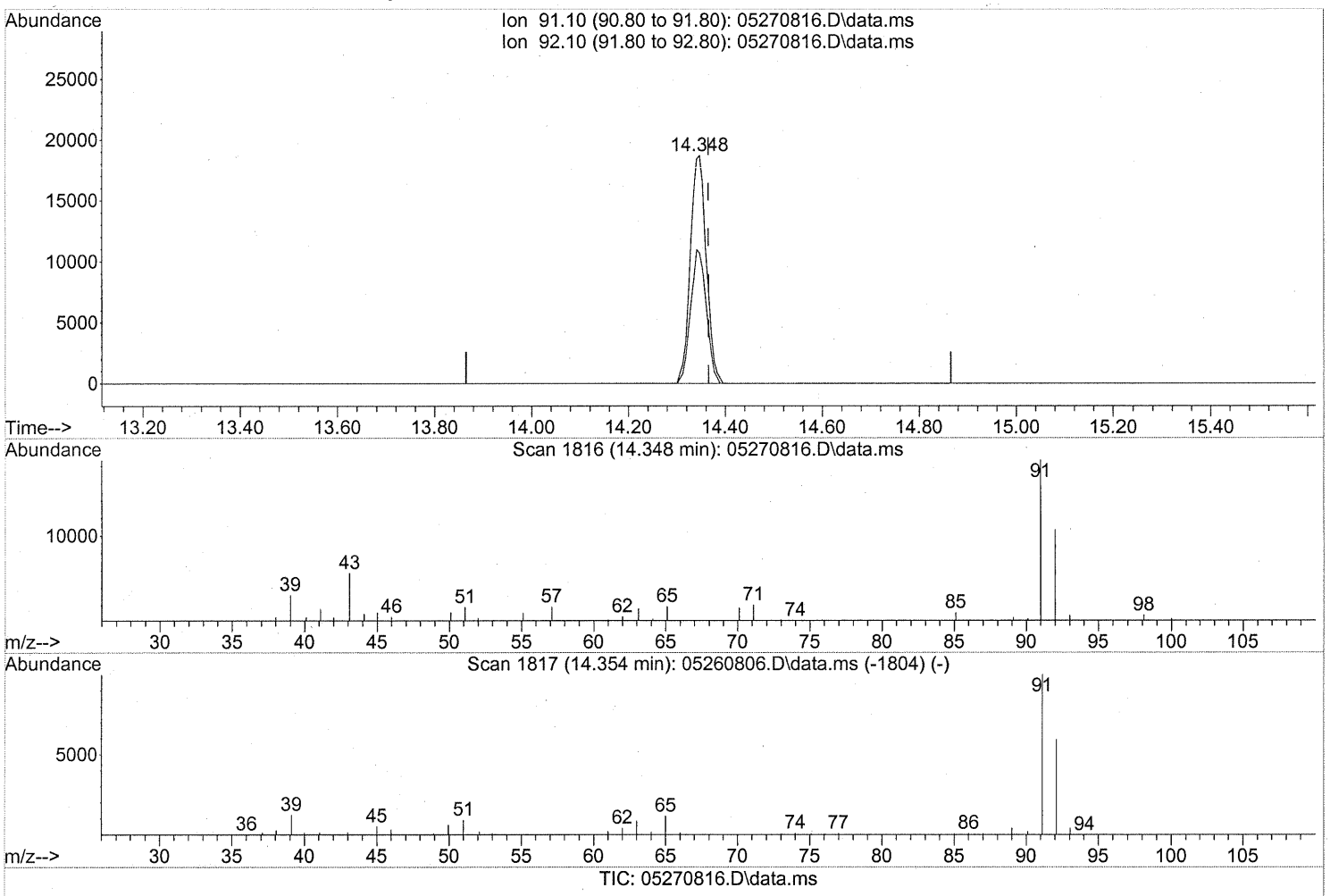
response 7964

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.09
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 0.55ng

response 42537

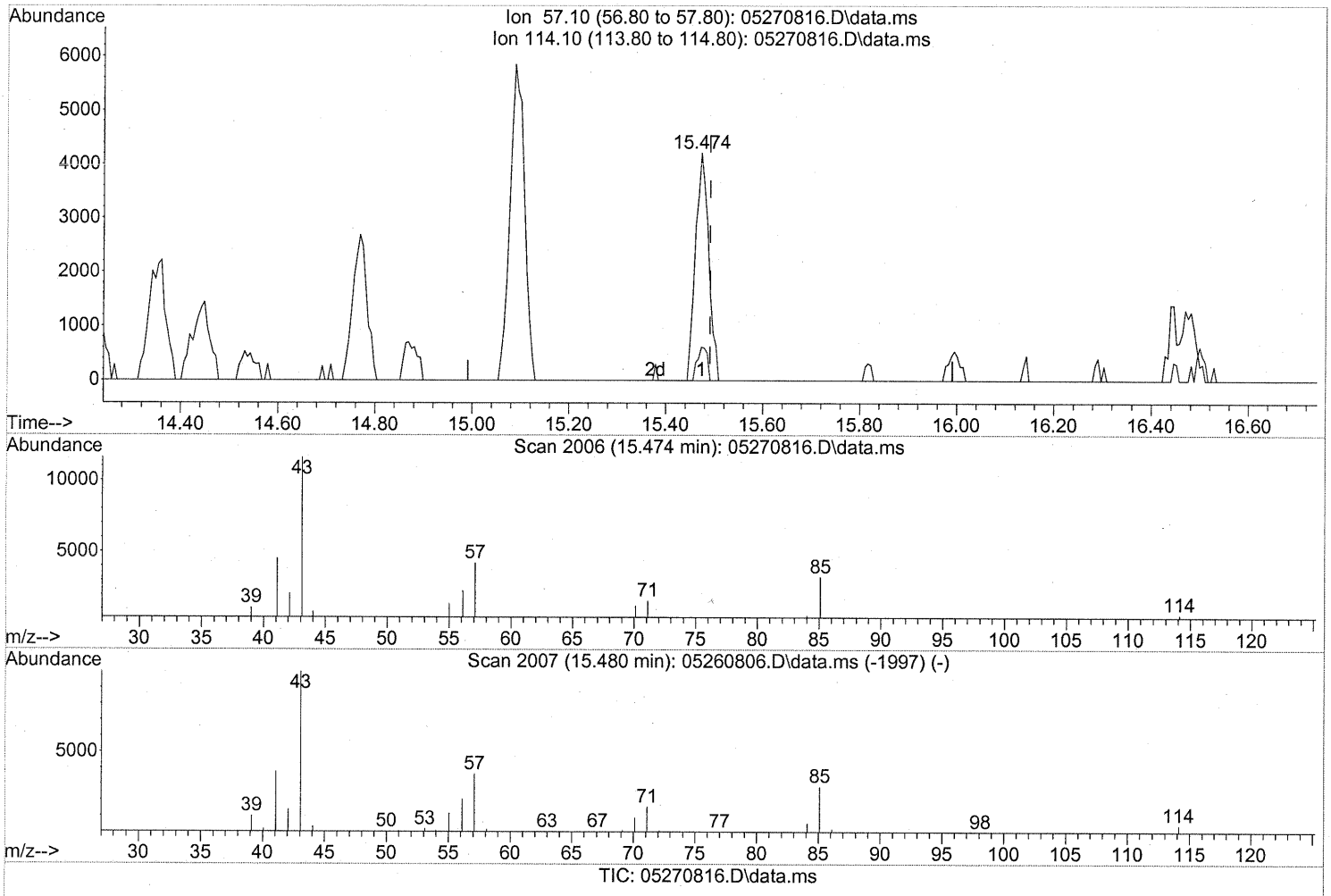
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	57.65
0.00	0.00	0.00
0.00	0.00	0.00

401

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.34ng

response 7951

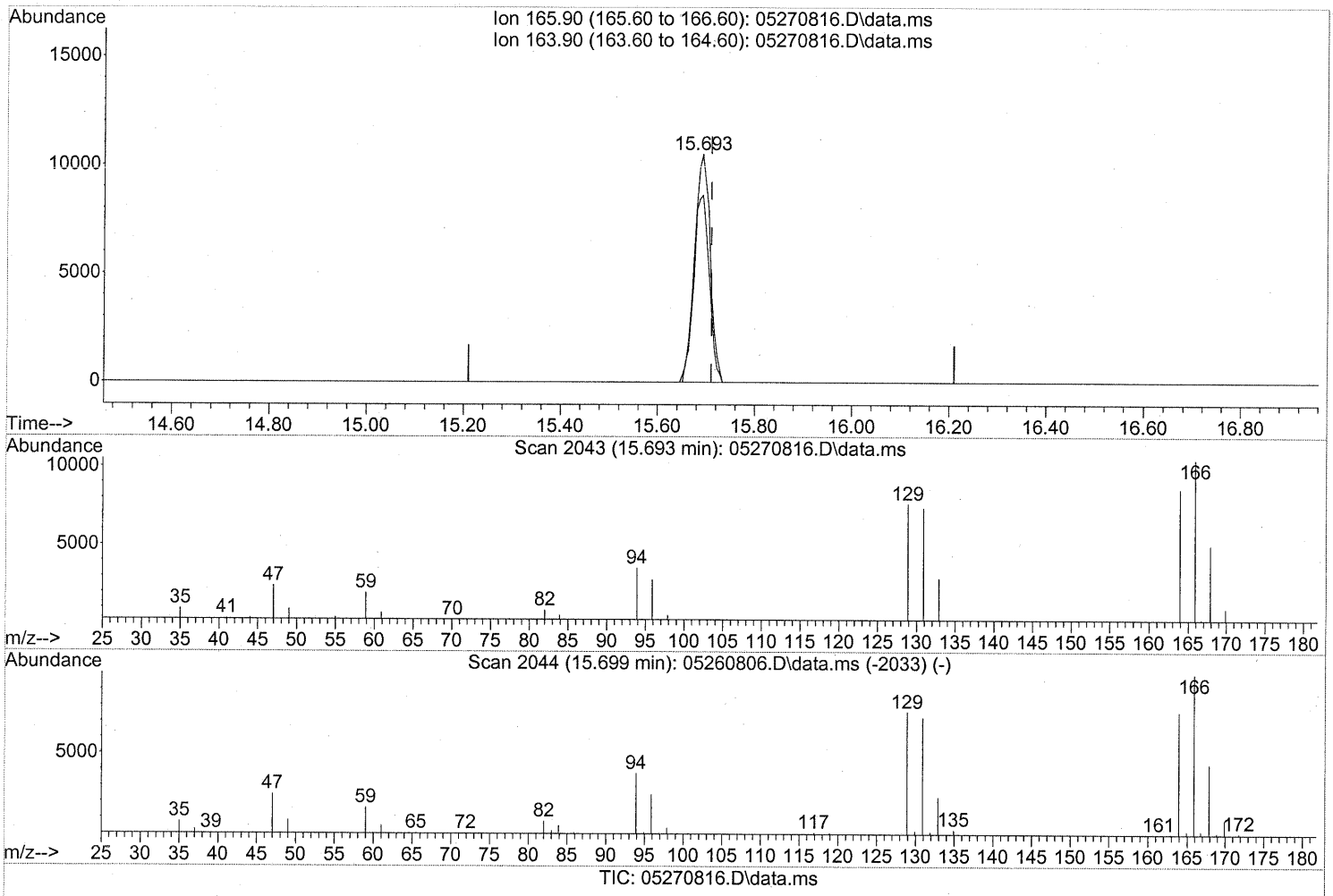
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	10.94
0.00	0.00	0.00
0.00	0.00	0.00

402

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 1.04ng

response 23573

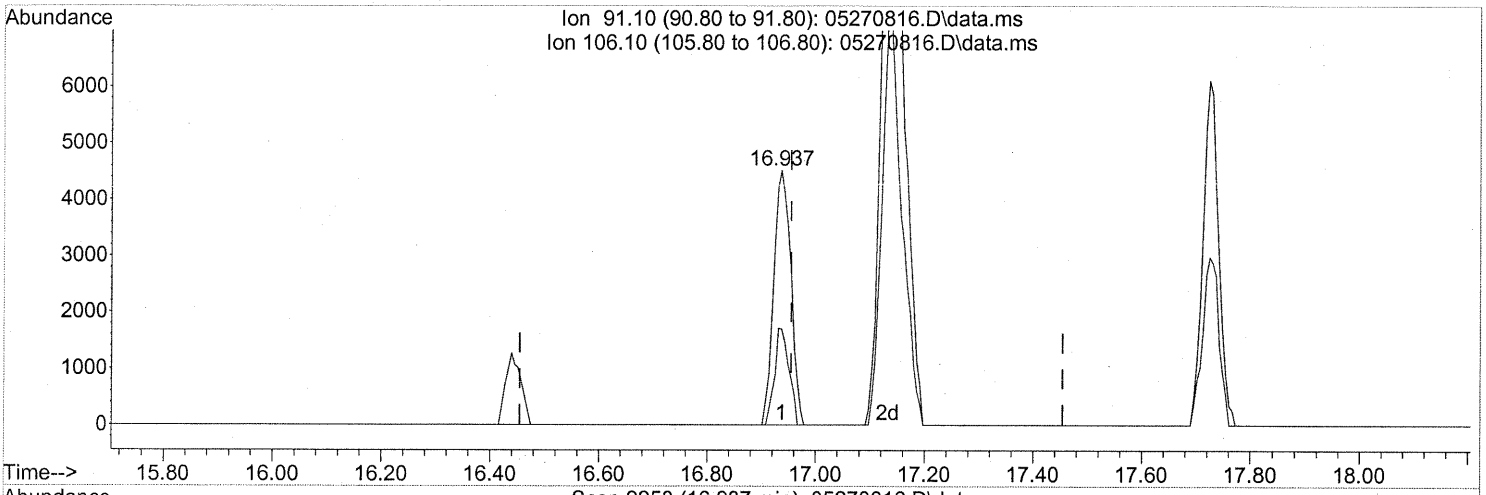
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	80.73
0.00	0.00	0.00
0.00	0.00	0.00

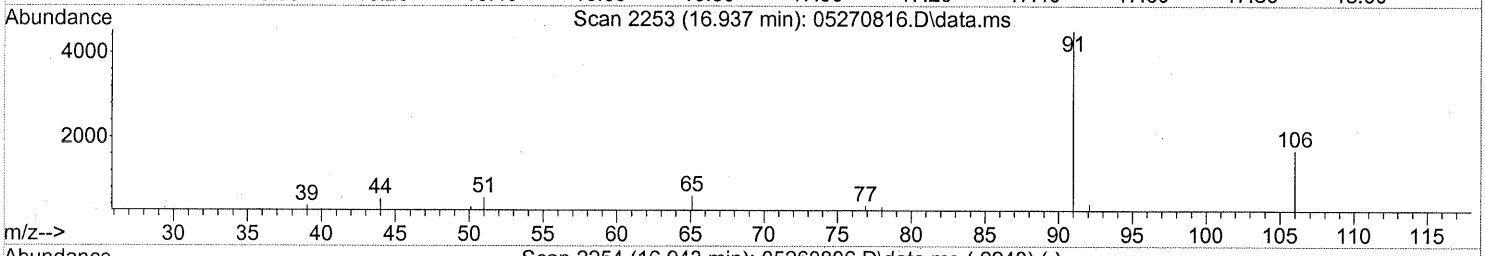
403

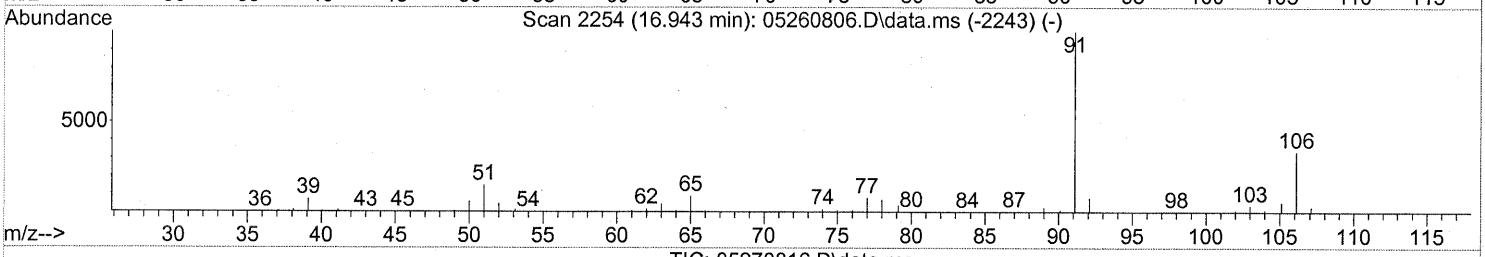
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270816.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.11ng

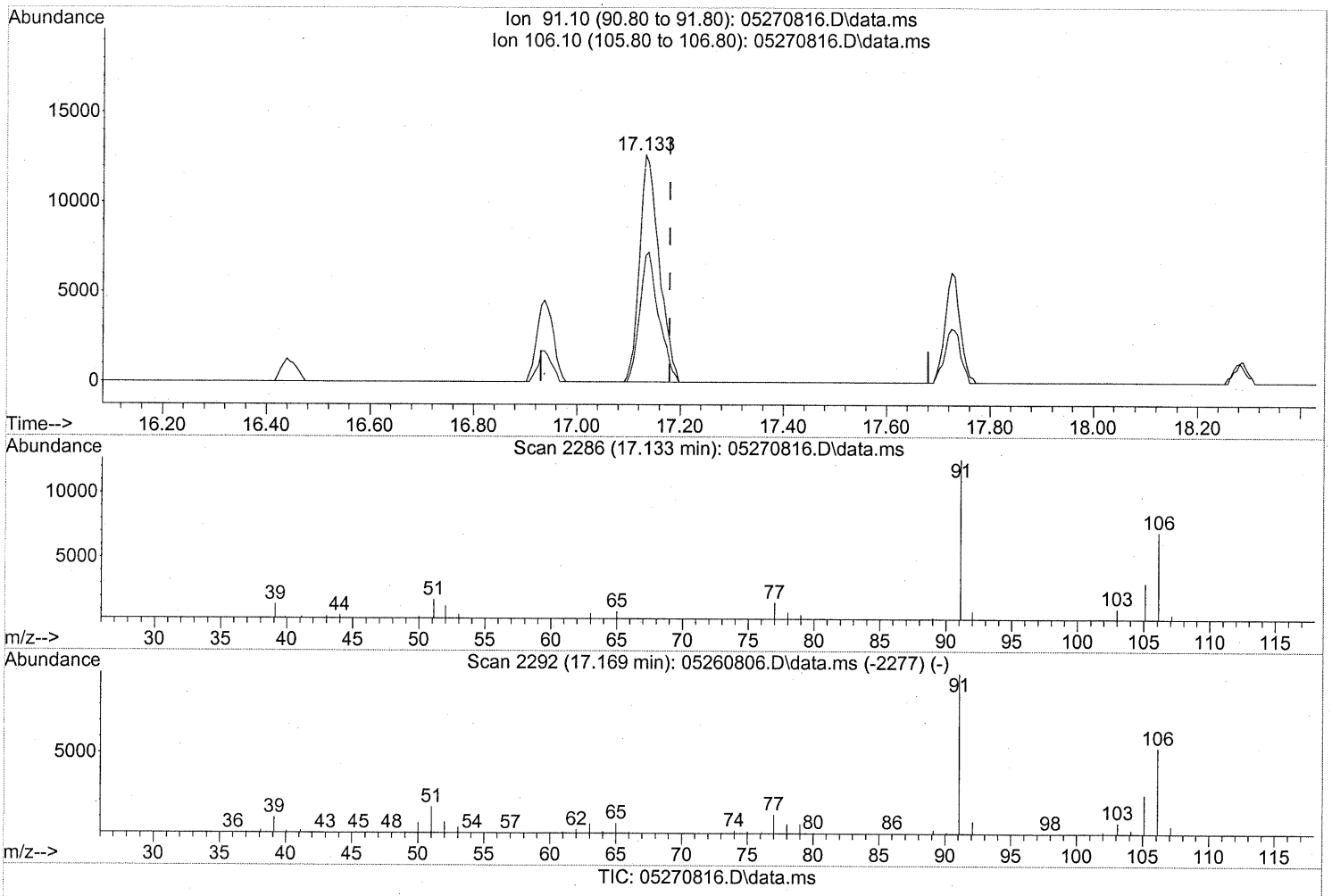
response 9959

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	32.00
0.00	0.00	0.00
0.00	0.00	0.00

404

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

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

17.133min (-0.048) 0.58ng

response 33305

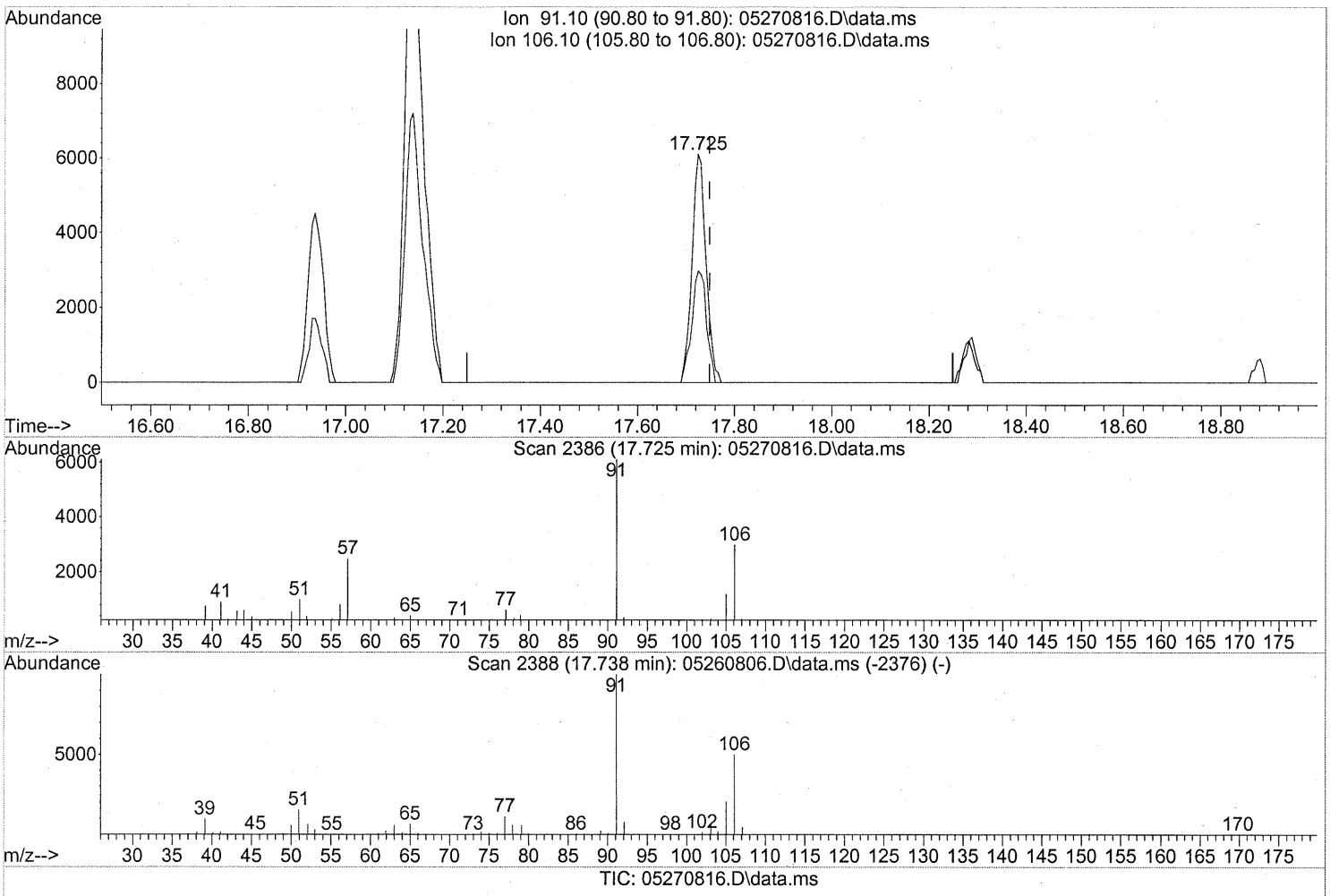
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	55.24
0.00	0.00	0.00
0.00	0.00	0.00

405

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(70) o-Xylene (T)

17.725min (-0.024) 0.20ng

response 12346

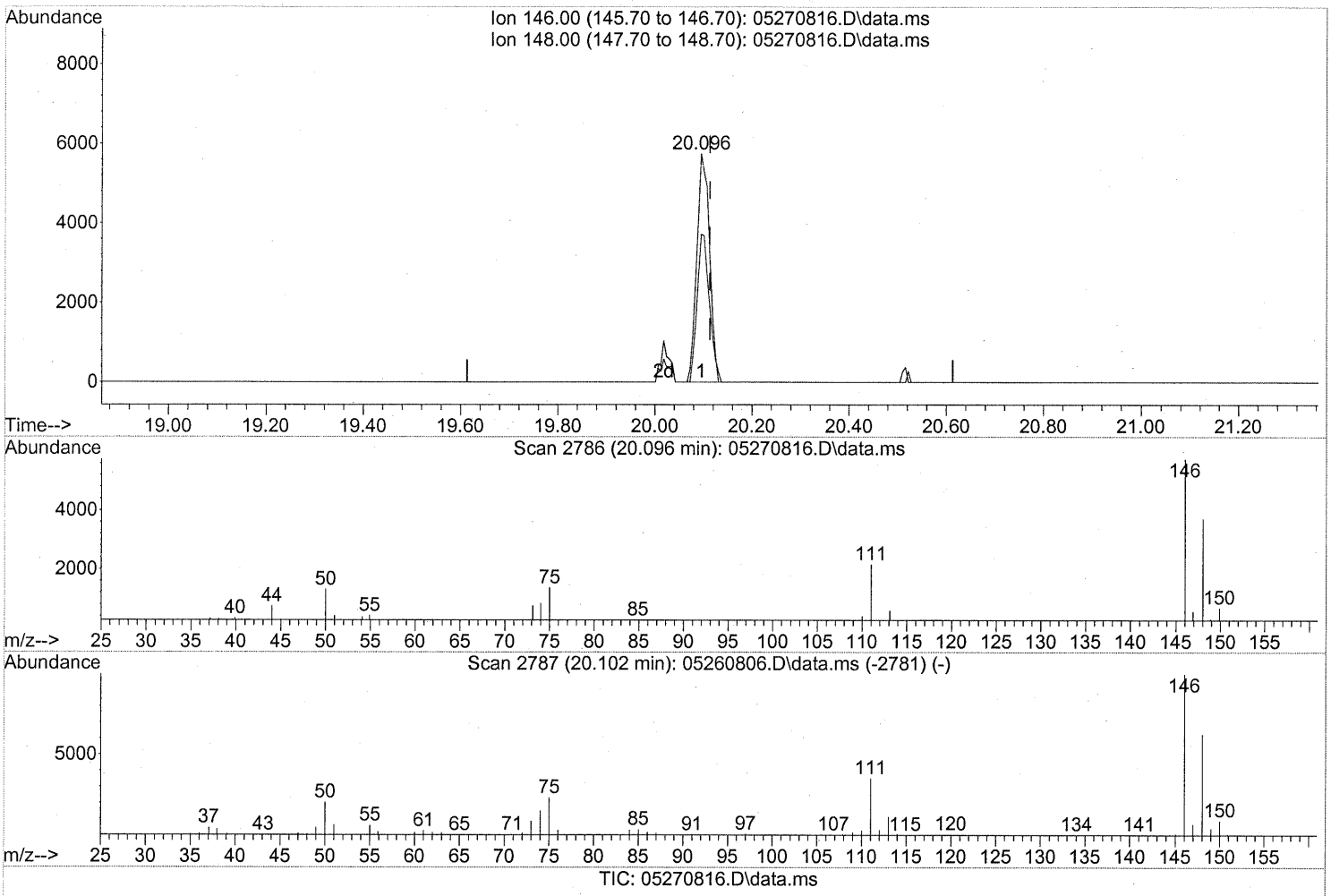
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	51.59
0.00	0.00	0.00
0.00	0.00	0.00

406

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(86) 1,4-Dichlorobenzene (T)

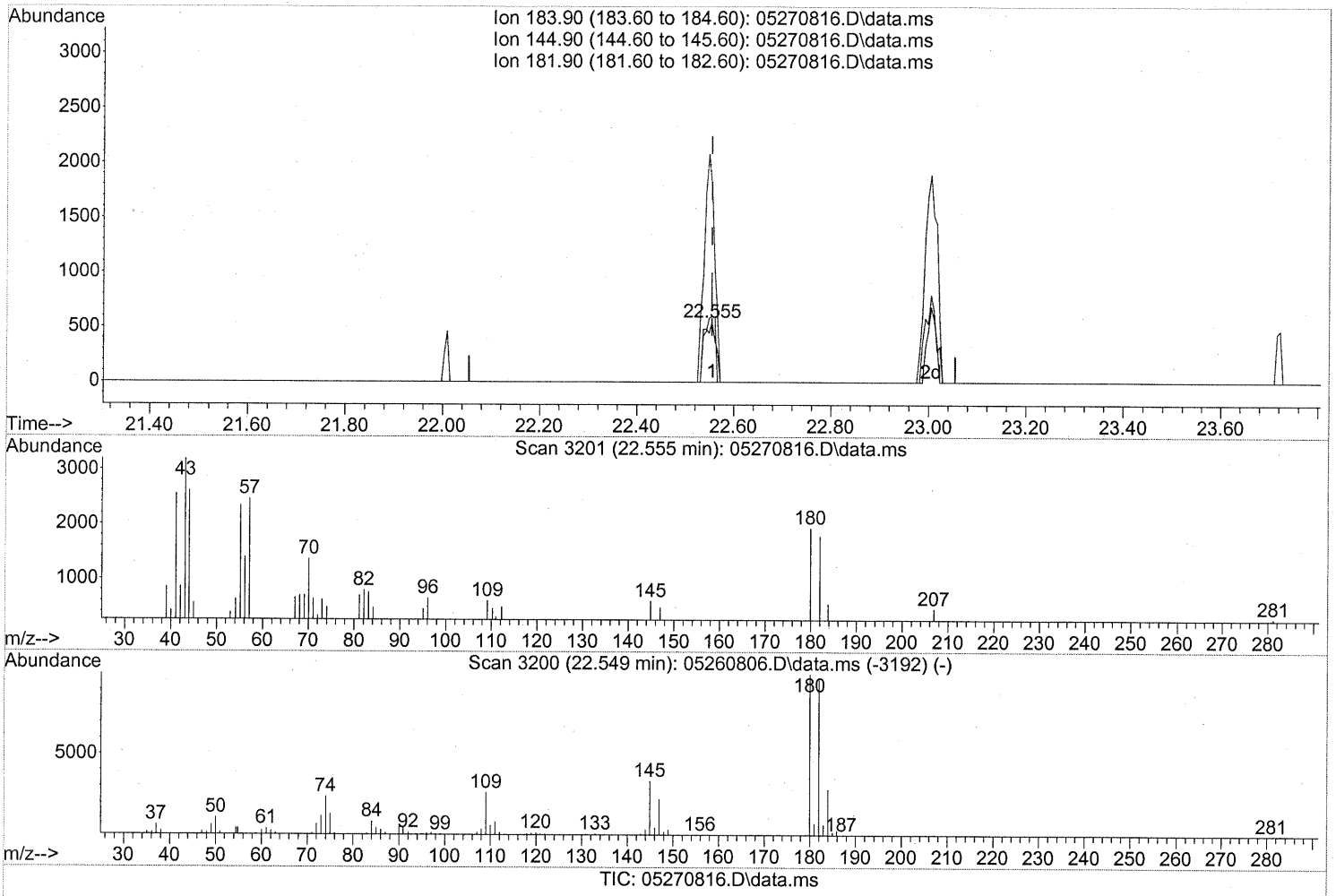
20.096min (-0.018) 0.21ng

response 10436

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	62.97
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 28 04:47:42 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270816.D\data.ms

(94) 1,2,4-Trichlorobenzene (T)

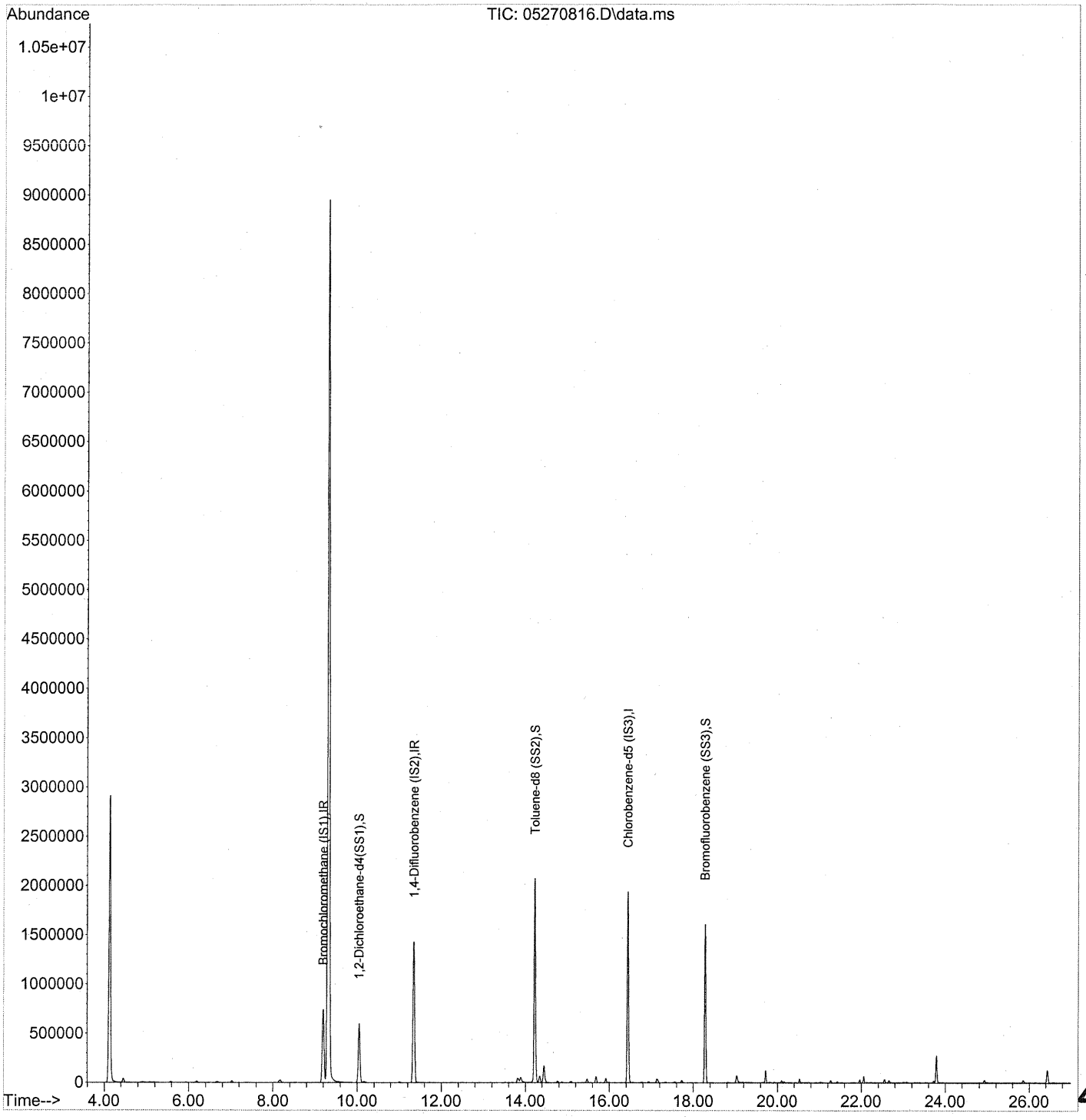
22.555min (-0.000) 0.11ng

response 928

Ion	Exp%	Act%
183.90	100	100
144.90	98.10	101.29
181.90	314.30	337.50#
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 04 14:39:28 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270816.D
Acq On : 27 May 2008 22:19
Operator : WA
Sample : P0801507-011 (20ml)
Misc : ENSR SG57B-05 (-3.3, 3.6)
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 04 14:39:28 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

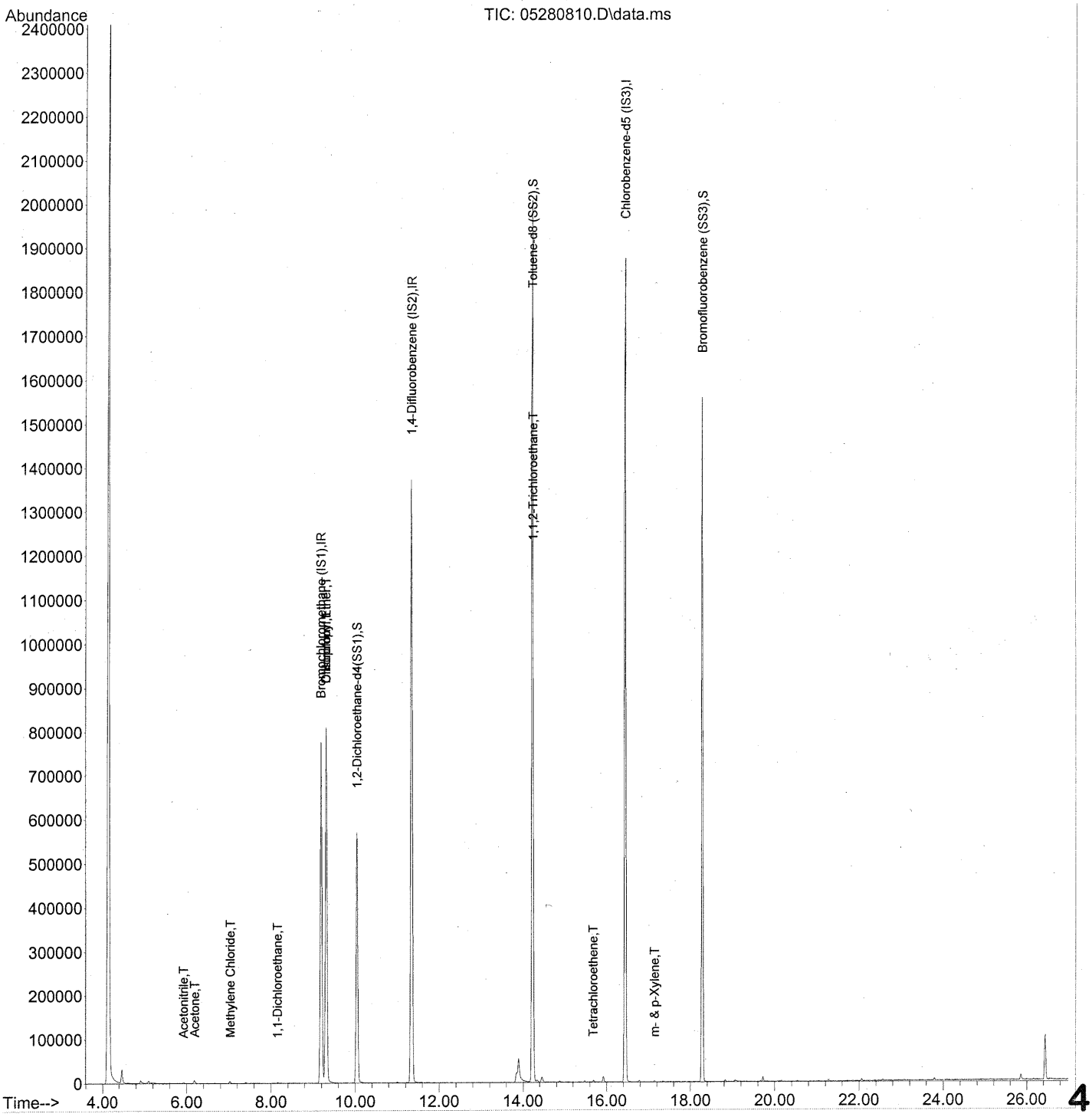
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	388924	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1619160	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	656839	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	556899	25.042	ng	-0.05
Spiked Amount 25.000			Recovery = 100.16%			
5) Toluene-d8 (SS2)	14.23	98	1646381	24.313	ng	-0.02
Spiked Amount 25.000			Recovery = 97.24%			
6) Bromofluorobenzene (SS3)	18.28	174	578697	25.703	ng	-0.01
Spiked Amount 25.000			Recovery = 102.80%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	663	N.D.		
8) n-Butylbenzene	20.84	91	106	N.D.		

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

410

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280810.D
Acq On : 28 May 2008 3:45 pm
Operator : WA
Sample : P0801507-011 Dil (2.0ml)
Misc : ENSR SG57B-05D (-3.3, 3.6) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:25 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280810.D
Acq On : 28 May 2008 3:45 pm
Operator : WA
Sample : P0801507-011 Dil (2.0ml)
Misc : ENSR SG57B-05D (-3.3, 3.6) RA 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:25 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	379052	25.000	ng	-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1549547	25.000	ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	630197	25.000	ng	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	10.04	65	532099	24.550	ng	-0.05
Spiked Amount 25.000			Recovery =	98.20%		
57) Toluene-d8 (SS2)	14.22	98	1582383	24.355	ng	-0.02
Spiked Amount 25.000			Recovery =	97.44%		
73) Bromofluorobenzene (SS3)	18.28	174	560054	25.927	ng	-0.01
Spiked Amount 25.000			Recovery =	103.72%		
Target Compounds						Qvalue
2) Propene	4.48	42	483	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	5.60	64	578	N.D.		
10) Ethanol	0.00	45	0	N.D.		
11) Acetonitrile	5.93	41	3386	0.059	ng	# 7
12) Acrolein	6.06	56	198	N.D.		
13) Acetone	6.19	58	4178	0.211	ng	# 59
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	7.04	84	1821	0.119	ng	# 31
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	7.40	76	2808	N.D.		
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	8.16	63	3204	0.099	ng	79
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	9.31	87	87339	6.403	ng	# 1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280810.D
Acq On : 28 May 2008 3:45 pm
Operator : WA
Sample : P0801507-011 Dil (2.0ml)
Misc : ENSR SG57B-05D (-3.3, 3.6) DH 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:25 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	795180	35.550	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.17	62	294	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	0.00	56	0	N.D.			
41) Benzene	10.99	78	1959	N.D.			
42) Carbon Tetrachloride	0.00	117	0	N.D.			
43) Cyclohexane	11.33	84	448	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	14.24	97	133178	8.381	ng	#	6
58) Toluene	14.34	91	3102	N.D.			
59) 2-Hexanone	14.46	43	208	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	1864	N.D.			
63) n-Octane	15.47	57	626	N.D.			
64) Tetrachloroethene	15.68	166	1732	0.079	ng		98
65) Chlorobenzene	0.00	112	0	N.D.			
66) Ethylbenzene	16.94	91	670	N.D.			
67) m- & p-Xylene	17.14	91	2988	0.054	ng		81
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	0.00	104	0	N.D.			
70) o-Xylene	17.73	91	887	N.D.			
71) n-Nonane	17.73	43	102	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.29	105	715	N.D.			
75) alpha-Pinene	0.00	93	0	N.D.			
76) n-Propylbenzene	0.00	91	0	N.D.			
77) 3-Ethyltoluene	19.18	105	193	N.D.			
78) 4-Ethyltoluene	19.18	105	193	N.D.			
79) 1,3,5-Trimethylbenzene	19.18	105	193	N.D.			

413

DH 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280810.D
Acq On : 28 May 2008 3:45 pm
Operator : WA
Sample : P0801507-011 Dil (2.0ml) 6/4/08
Misc : ENSR SG57B-05D (-3.3, 3.6)
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:25 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

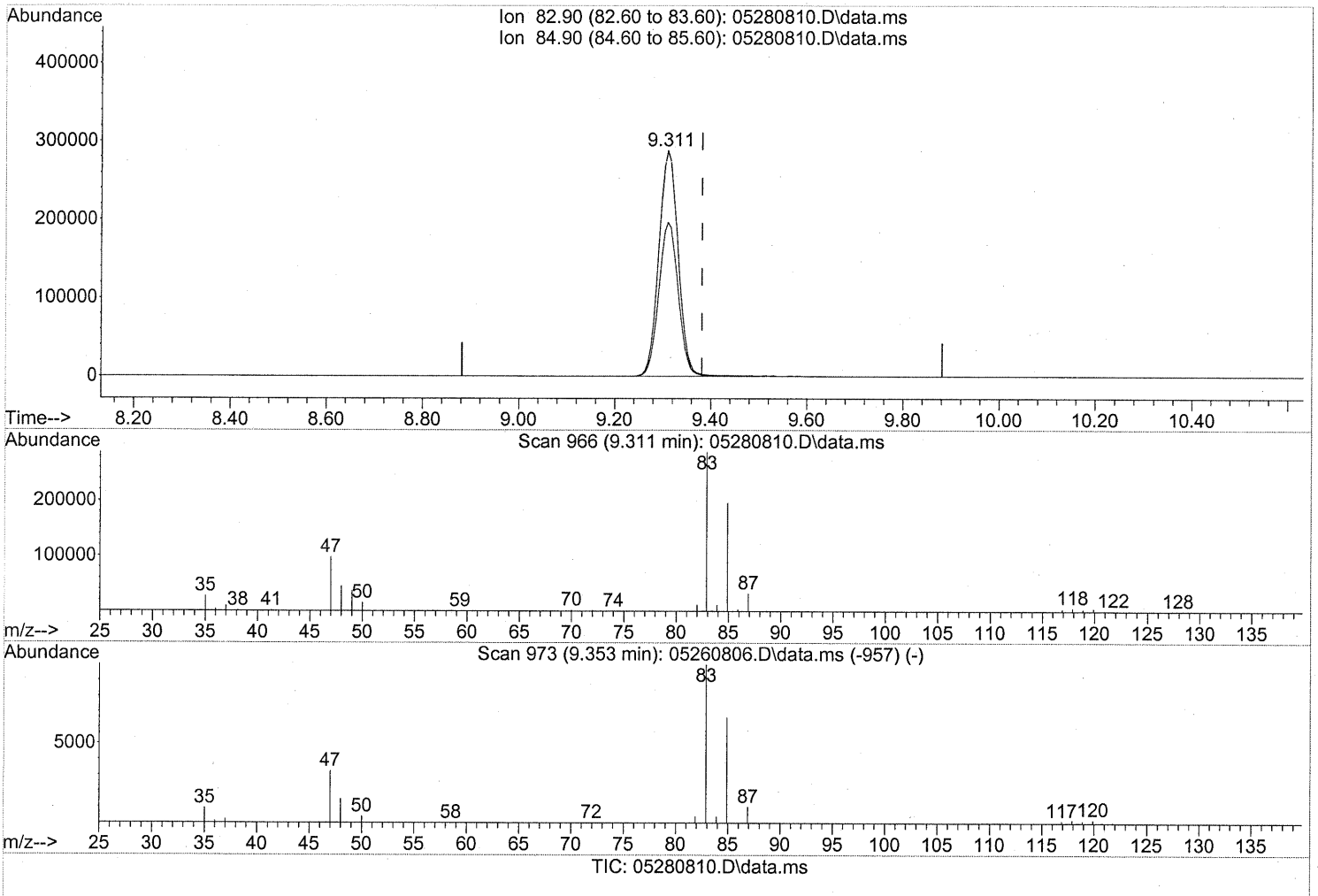
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.	
81) 2-Ethyltoluene	19.56	105	109	N.D.	
82) 1,2,4-Trimethylbenzene	19.83	105	612	N.D.	
83) n-Decane	19.92	57	93	N.D.	
84) Benzyl Chloride	0.00	91	0	N.D.	
85) 1,3-Dichlorobenzene	20.11	146	546	N.D.	
86) 1,4-Dichlorobenzene	20.11	146	546	N.D.	
87) sec-Butylbenzene	19.83	105	612	N.D.	
88) p-Isopropyltoluene	0.00	119	0	N.D.	
89) 1,2,3-Trimethylbenzene	20.76	105	110	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	21.43	57	320	N.D.	
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	642	N.D.	
96) n-Dodecane	22.66	57	308	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:\MS16\DATA\2008_05\28\
Data File : 05280810.D
Acq On : 28 May 2008 15:45
Operator : WA
Sample : P0801507-011 Dil (2.0ml)
Misc : ENSR SG57B-05D (-3.3, 3.6) 6/4/08
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 06:13:25 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280810.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 35.55ng

response 795180

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.70
0.00	0.00	0.00
0.00	0.00	0.00

415

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG13B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00428

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.4**	3.2	0.32	**0.49**	0.65	0.065	**J**
74-87-3	**Chloromethane**	**0.34**	0.64	0.32	**0.17**	0.31	0.16	**J**
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	3.2	0.32	ND	0.46	0.046	
75-01-4	Vinyl Chloride	ND	0.64	0.32	ND	0.25	0.13	
74-83-9	Bromomethane	ND	0.64	0.32	ND	0.17	0.083	
75-00-3	Chloroethane	ND	0.64	0.32	ND	0.24	0.12	
64-17-5	**Ethanol**	**3.7**	32	0.32	**1.9**	17	0.17	**J, B**
67-64-1	**Acetone**	**47**	32	0.47	**20**	14	0.20	**B**
75-69-4	**Trichlorofluoromethane**	**7.0**	0.64	0.32	**1.2**	0.11	0.057	
107-13-1	Acrylonitrile	ND	3.2	0.45	ND	1.5	0.21	
75-35-4	1,1-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**3.2**	3.2	0.48	**1.1**	1.1	0.16	**J**
75-09-2	**Methylene Chloride**	**0.57**	3.2	0.32	**0.16**	0.93	0.093	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.64	0.32	ND	0.21	0.10	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.64	0.36	**0.068**	0.084	0.047	**J**
75-15-0	**Carbon Disulfide**	**3.0**	3.2	0.77	**0.98**	1.0	0.25	**J**
156-60-5	trans-1,2-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
75-34-3	1,1-Dichloroethane	ND	0.64	0.32	ND	0.16	0.080	
1634-04-4	Methyl tert-Butyl Ether	ND	0.64	0.32	ND	0.18	0.089	
108-05-4	**Vinyl Acetate**	**4.5**	32	1.0	**1.3**	9.1	0.29	**J, B**
78-93-3	**2-Butanone (MEK)**	**19**	3.2	0.32	**6.5**	1.1	0.11	**B**
156-59-2	cis-1,2-Dichloroethene	ND	0.64	0.32	ND	0.16	0.081	
108-20-3	Diisopropyl Ether	ND	3.2	0.38	ND	0.77	0.091	
67-66-3	**Chloroform**	**1,700**	0.64	0.38	**350**	0.13	0.078	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG13B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-012

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00428

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.25 Liter(s)
0.050 Liter(s)

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	ND	3.2	0.33	ND	0.77	0.079	
107-06-2	1,2-Dichloroethane	ND	0.64	0.32	ND	0.16	0.080	
71-55-6	1,1,1-Trichloroethane	ND	0.64	0.32	ND	0.12	0.059	
71-43-2	**Benzene**	**2.7**	0.64	0.32	**0.84**	0.20	0.10	**B**
56-23-5	**Carbon Tetrachloride**	**16**	0.64	0.32	**2.5**	0.10	0.051	
994-05-8	tert-Amyl Methyl Ether	ND	3.2	0.32	ND	0.77	0.077	
78-87-5	1,2-Dichloropropane	ND	0.64	0.32	ND	0.14	0.070	
75-27-4	**Bromodichloromethane**	**1.3**	0.64	0.32	**0.19**	0.096	0.048	
79-01-6	**Trichloroethene**	**4.5**	0.64	0.32	**0.84**	0.12	0.060	
123-91-1	1,4-Dioxane	ND	3.2	0.39	ND	0.89	0.11	
80-62-6	Methyl Methacrylate	ND	3.2	0.48	ND	0.79	0.12	
142-82-5	**n-Heptane**	**1.0**	3.2	0.41	**0.26**	0.79	0.10	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	3.2	0.33	ND	0.71	0.074	
108-10-1	**4-Methyl-2-pentanone**	**20**	3.2	0.36	**5.0**	0.79	0.088	
10061-02-6	trans-1,3-Dichloropropene	ND	3.2	0.41	ND	0.71	0.089	
79-00-5	1,1,2-Trichloroethane	ND	0.64	0.32	ND	0.12	0.059	
108-88-3	**Toluene**	**13**	3.2	0.32	**3.5**	0.85	0.085	
591-78-6	**2-Hexanone**	**3.0**	3.2	0.49	**0.74**	0.79	0.12	**J**
124-48-1	**Dibromochloromethane**	**0.66**	0.64	0.44	**0.077**	0.076	0.051	
106-93-4	1,2-Dibromoethane	ND	0.64	0.35	ND	0.084	0.045	
111-65-9	**n-Octane**	**1.9**	3.2	0.32	**0.41**	0.69	0.069	**J**
127-18-4	**Tetrachloroethene**	**18**	0.64	0.32	**2.6**	0.095	0.048	
108-90-7	Chlorobenzene	ND	0.64	0.33	ND	0.14	0.071	

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG13B-05** CAS Sample ID: P0801507-012
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.25 Liter(s)
Test Notes: 0.050 Liter(s)
Container ID: SC00428

Initial Pressure (psig): -3.3 Final Pressure (psig): 3.6

Canister Dilution Factor: 1.61

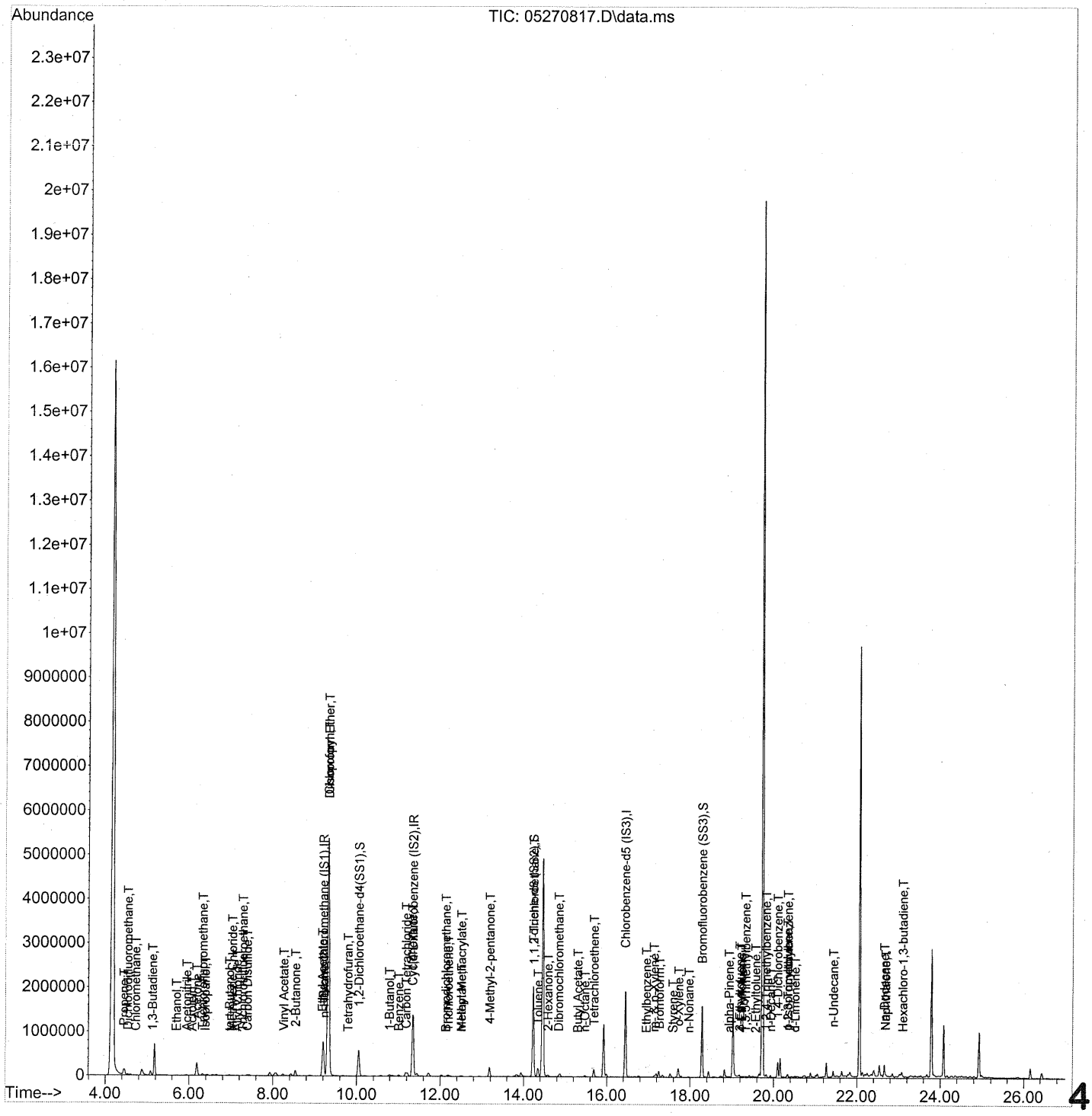
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.50**	3.2	0.40	**0.11**	0.74	0.092	**J**
179601-23-1	**m,p-Xylenes**	**2.4**	3.2	0.84	**0.56**	0.74	0.19	**J**
75-25-2	**Bromoform**	**0.99**	3.2	0.49	**0.095**	0.31	0.047	**J**
100-42-5	Styrene	ND	3.2	0.49	ND	0.76	0.12	
95-47-6	**o-Xylene**	**1.3**	3.2	0.41	**0.29**	0.74	0.093	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.64	0.41	ND	0.094	0.060	
98-82-8	Cumene	ND	3.2	0.36	ND	0.66	0.073	
103-65-1	n-Propylbenzene	ND	3.2	0.33	ND	0.66	0.068	
622-96-8	**4-Ethyltoluene**	**0.53**	3.2	0.37	**0.11**	0.66	0.075	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.65**	3.2	0.39	**0.13**	0.66	0.079	**J**
98-83-9	alpha-Methylstyrene	ND	3.2	0.47	ND	0.67	0.097	
95-63-6	**1,2,4-Trimethylbenzene**	**2.5**	3.2	0.44	**0.51**	0.66	0.090	**J**
100-44-7	Benzyl Chloride	ND	0.64	0.55	ND	0.12	0.11	
541-73-1	1,3-Dichlorobenzene	ND	0.64	0.40	ND	0.11	0.066	
106-46-7	**1,4-Dichlorobenzene**	**19**	0.64	0.36	**3.2**	0.11	0.060	
135-98-8	sec-Butylbenzene	ND	3.2	0.37	ND	0.59	0.068	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**1.8**	3.2	0.42	**0.33**	0.59	0.076	**J**
95-50-1	1,2-Dichlorobenzene	ND	0.64	0.43	ND	0.11	0.071	
96-12-8	1,2-Dibromo-3-chloropropane	ND	3.2	0.49	ND	0.33	0.051	
120-82-1	1,2,4-Trichlorobenzene	ND	0.64	0.49	ND	0.087	0.066	
91-20-3	**Naphthalene**	**1.4**	1.3	0.48	**0.27**	0.25	0.091	
87-68-3	**Hexachlorobutadiene**	**2.3**	0.64	0.58	**0.22**	0.060	0.054	
98-06-6	tert-Butylbenzene	ND	1.3	0.32	ND	0.23	0.059	
104-51-8	**n-Butylbenzene**	**0.53**	1.3	0.32	**0.097**	0.23	0.059	**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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 07:59:33 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	380792	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.35	114	1597367	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	659426	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	542471	24.914	ng		-0.04
Spiked Amount 25.000			Recovery =	99.64%			
57) Toluene-d8 (SS2)	14.23	98	1625685	23.913	ng		-0.02
Spiked Amount 25.000			Recovery =	95.64%			
73) Bromofluorobenzene (SS3)	18.29	174	577227	25.537	ng		0.00
Spiked Amount 25.000			Recovery =	102.16%			
Target Compounds							Qvalue
2) Propene	4.44	42	46853	1.589	ng	#	82
3) Dichlorodifluoromethane	4.54	85	13436	0.377	ng		99
4) Chloromethane	4.73	50	2389	0.053	ng		75
5) Freon 114	4.84	135	96	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.13	54	5970	0.230	ng	#	25
8) Bromomethane	5.42	94	98	N.D.			
9) Chloroethane	5.59	64	204	N.D.			
10) Ethanol	5.70	45	11369m	0.568	ng		
11) Acetonitrile	5.95	41	14931	0.259	ng	#	67
12) Acrolein	6.08	56	5209	0.361	ng		97
13) Acetone	6.19	58	144088	7.242	ng	#	75
14) Trichlorofluoromethane	6.32	101	36073	1.081	ng		97
15) Isopropanol	6.38	45	29486	0.492	ng		94
16) Acrylonitrile	6.61	53	630	N.D.			
17) 1,1-Dichloroethene	6.93	96	191	N.D.			
18) tert-Butanol	6.96	59	27838m	0.498	ng		
19) Methylene Chloride	7.03	84	1354	0.088	ng	#	11
20) Allyl Chloride	7.14	41	2586	~~0.073 ng~~	UR	#	45
21) Trichlorotrifluoroethane	7.28	151	1306	0.081	ng		98
22) Carbon Disulfide	7.39	76	29117	0.472	ng		100
23) trans-1,2-Dichloroethene	7.93	61	808	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	8.22	73	315	N.D.			
26) Vinyl Acetate	8.26	86	2275	0.698	ng	#	80
27) 2-Butanone	8.53	72	31124	2.992	ng	#	23
28) cis-1,2-Dichloroethene	9.01	61	95	N.D.			
29) Diisopropyl Ether	9.33	87	659078	~~48.099 ng~~	UR	#	1
30) Ethyl Acetate	9.18	61	5117	0.705	ng		87
31) n-Hexane	9.23	57	8031	0.185	ng		83

DA 6/4/08

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ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 07:59:33 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	6058378	~~269.612 ng~~ ~~sa~~ del		96
34) Tetrahydrofuran	9.79	72	1418	0.145 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	0.00	62	0	N.D. ✓		
38) 1,1,1-Trichloroethane	10.47	97	89	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.79	56	48729	1.853 ng	#	47
41) Benzene	11.01	78	28214	0.419 ng		98
42) Carbon Tetrachloride	11.18	117	67993	2.461 ng		99
43) Cyclohexane	11.34	84	5685	0.216 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	12.14	83	3853	0.195 ng		92
47) Trichloroethene	12.20	130	14717	0.702 ng		99
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	12.24	57	4114	N.D.		
50) Methyl Methacrylate	12.51	100	658	~~0.091 ng~~ NR	#	1
51) n-Heptane	12.51	71	2614	0.163 ng	#	48
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	13.19	58	74420	3.178 ng		82
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	14.24	97	137694	~~8.406 ng~~ NR	#	7
58) Toluene	14.35	91	157744	2.046 ng		98
59) 2-Hexanone	14.59	43	34072	0.468 ng		92
60) Dibromochloromethane	14.85	129	2314	0.102 ng		87
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.31	43	7007	0.096 ng		93
63) n-Octane	15.47	57	6931	0.297 ng		85
64) Tetrachloroethene	15.69	166	63066	2.765 ng		99
65) Chlorobenzene	16.50	112	1098	N.D. ✓		
66) Ethylbenzene	16.95	91	6758	0.077 ng		87
67) m- & p-Xylene	17.14	91	21895	0.377 ng		90
68) Bromoform	17.26	173	2027	0.153 ng		95
69) Styrene	17.59	104	3204	~~0.057 ng~~		92
70) o-Xylene	17.73	91	12231	0.197 ng		81
71) n-Nonane	17.97	43	9876	0.161 ng		76
72) 1,1,2,2-Tetrachloroethane	17.70	83	97	N.D. ✓		
74) Cumene	18.45	105	1503	N.D. ✓		
75) alpha-Pinene	18.93	93	7904	0.186 ng		97
76) n-Propylbenzene	19.06	91	5173	N.D. ✓		
77) 3-Ethyltoluene	19.19	105	13096	0.132 ng		94
78) 4-Ethyltoluene	19.24	105	7301	0.082 ng		97
79) 1,3,5-Trimethylbenzene	19.33	105	8012	0.101 ng		95

DH 6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
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Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 07:59:33 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.52	118	2140	N.D. ✓	
81) 2-Ethyltoluene	19.57	105	6430	0.067 ng	96
82) 1,2,4-Trimethylbenzene	19.82	105	31081	0.387 ng	94
83) n-Decane	19.93	57	18621	0.327 ng	88
84) Benzyl Chloride	19.99	91	113	N.D. ✓	
85) 1,3-Dichlorobenzene	20.01	146	304	N.D. ✓	
86) 1,4-Dichlorobenzene	20.10	146	148262	2.998 ng	98
87) sec-Butylbenzene	20.16	105	1352	N.D. ✓	
88) p-Isopropyltoluene	20.34	119	25323	0.278 ng	94
89) 1,2,3-Trimethylbenzene	20.34	105	14029	0.182 ng	86
90) 1,2-Dichlorobenzene	0.00	146	0	N.D. ✓	
91) d-Limonene	20.52	68	7204	0.291 ng	86
92) 1,2-Dibromo-3-Chloropr...	21.43	157	208	N.D. ✓	
93) n-Undecane	21.44	57	58908	0.987 ng	95
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D. ✓	
95) Naphthalene	22.69	128	25227	0.216 ng	90
96) n-Dodecane	22.66	57	102225	1.758 ng	76
97) Hexachloro-1,3-butadiene	23.11	225	4997	0.356 ng	96

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

422

JOA 6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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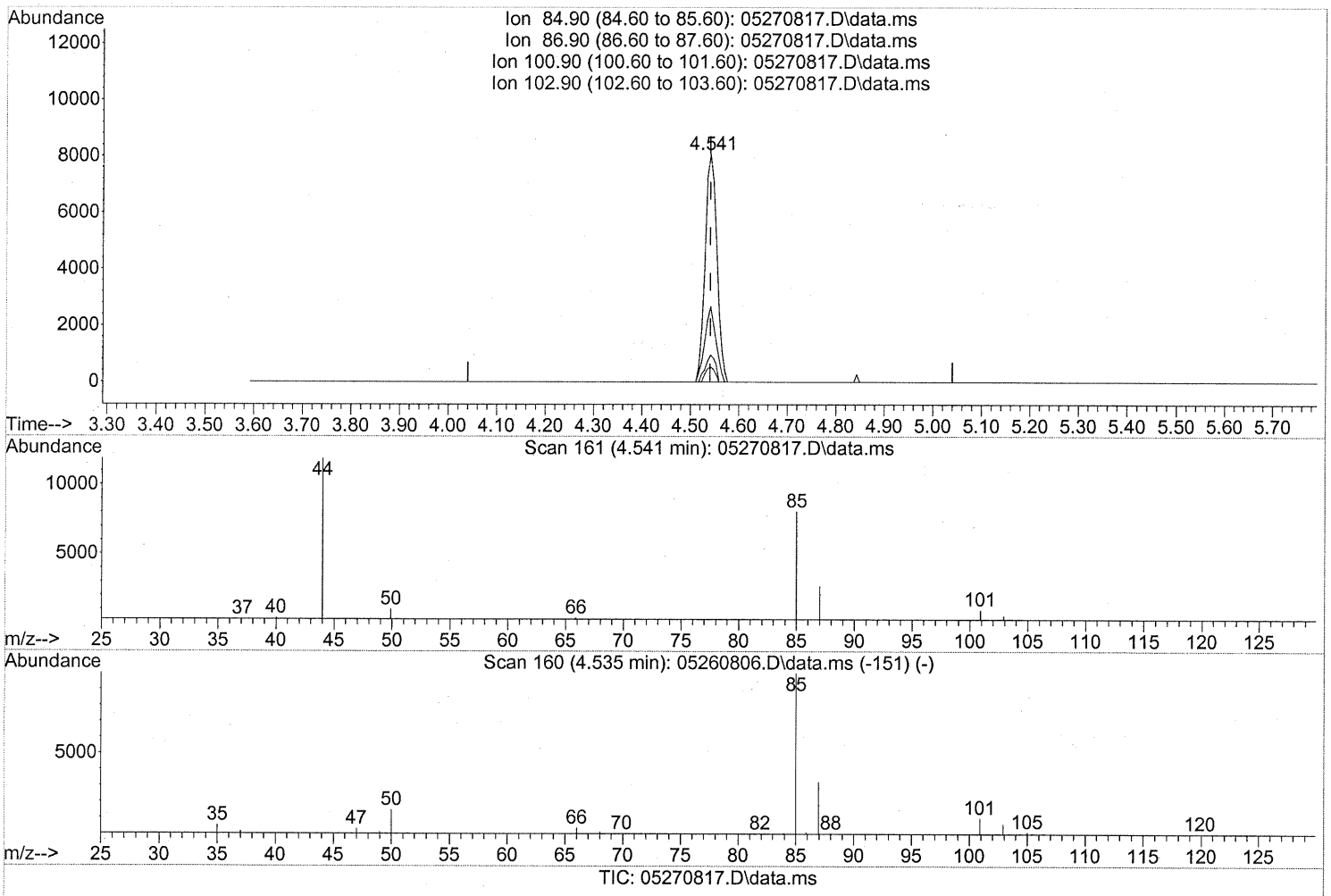
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(3) Dichlorodifluoromethane (T)

4.541min (+0.000) 0.38ng

response 13436

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	31.16
100.90	8.40	10.08
102.90	5.50	5.13

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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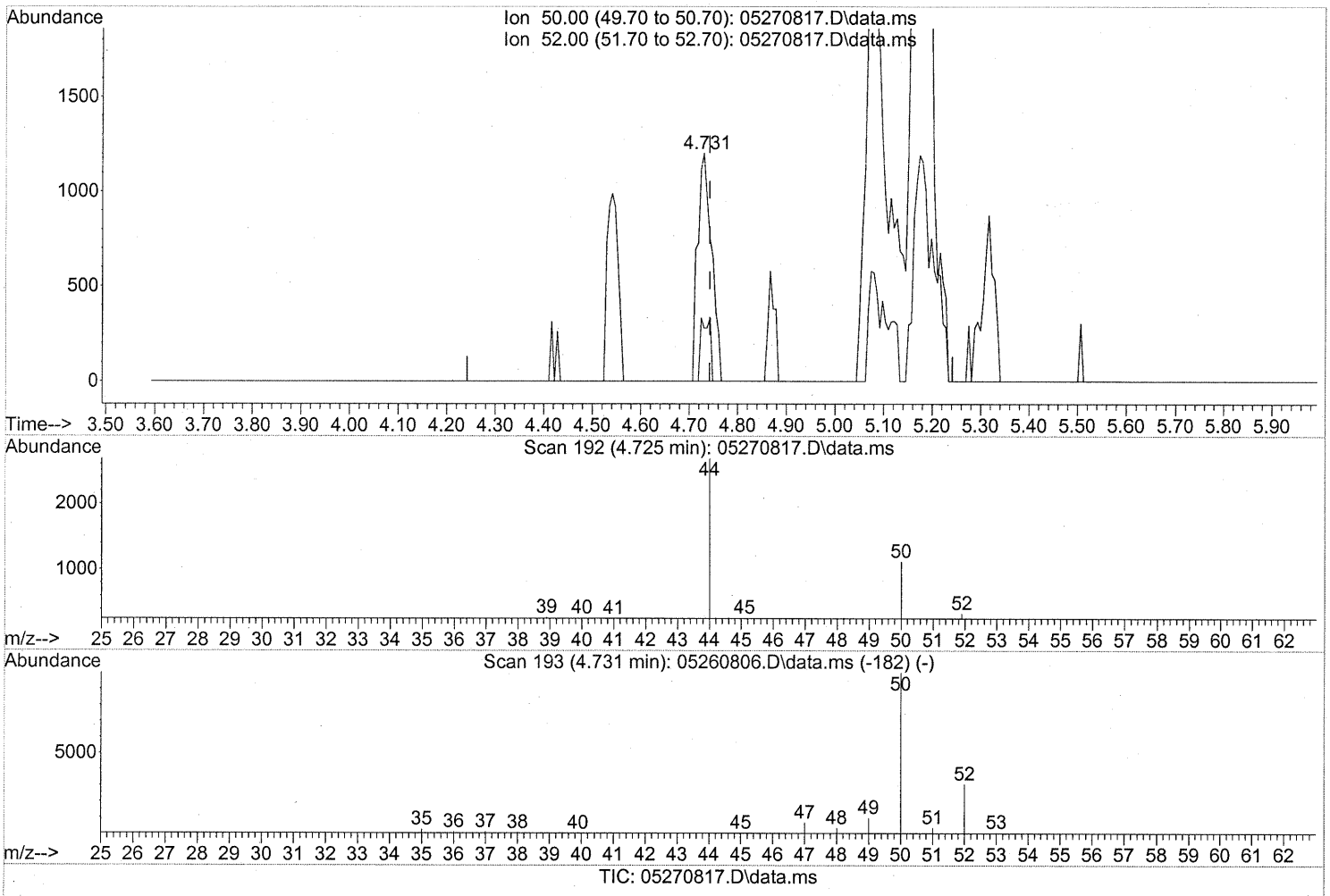

(4) Chloromethane (T)

4.731min (-0.012) 0.05ng

response 2389

Ion	Exp%	Act%
50.00	100	100
52.00	31.80	18.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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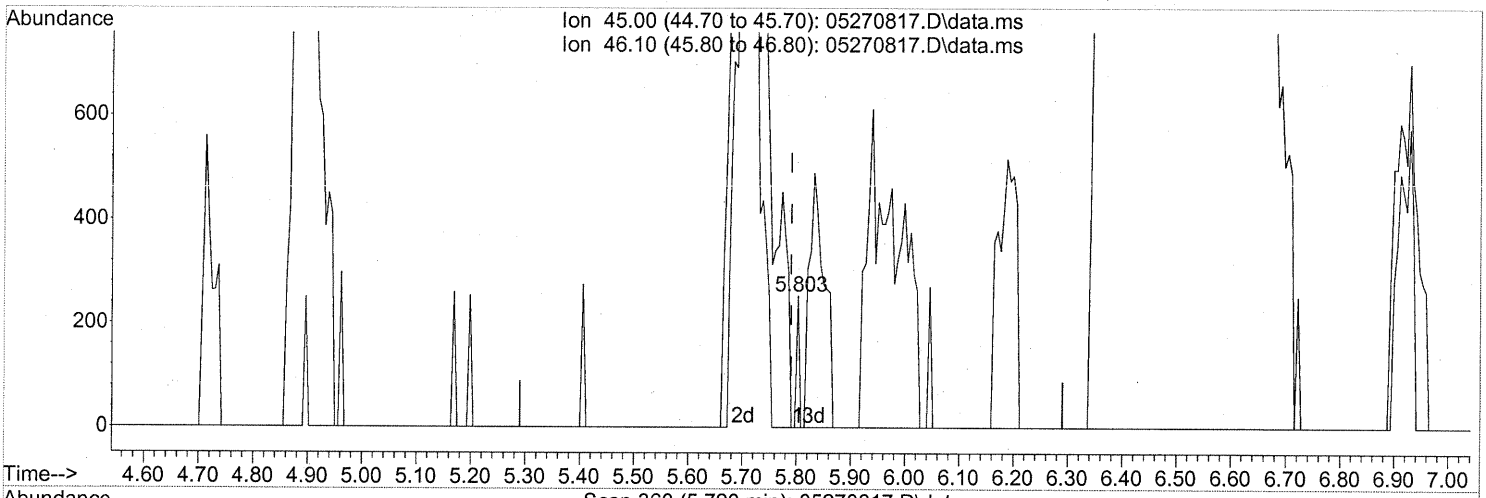

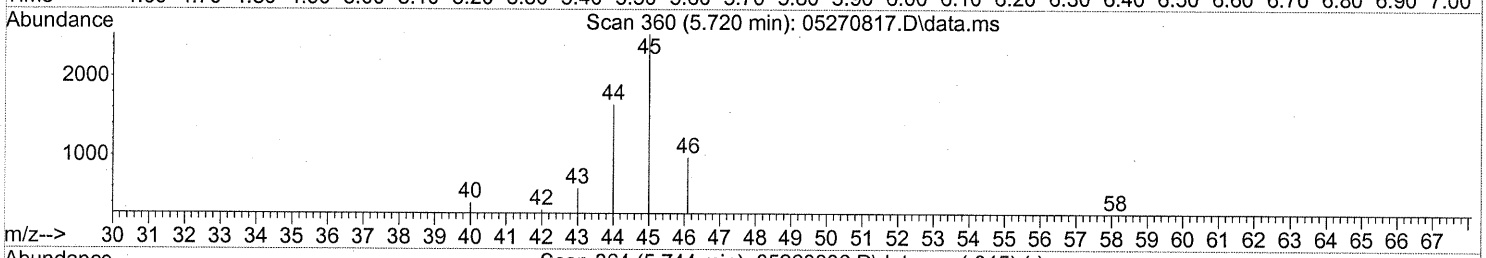

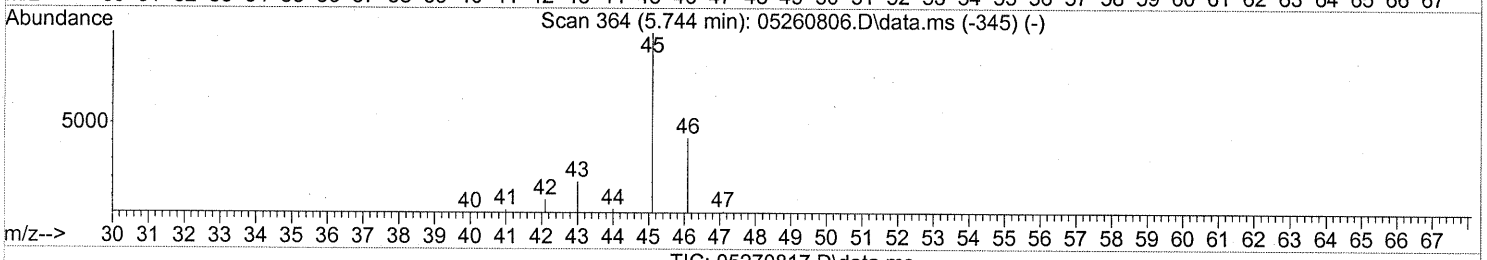

TIC: 05270817.D\data.ms

(10) Ethanol (T)

5.803min (+0.012) 0.00ng

response 90

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

mis-identify

425

Quantitation Report (Qedit)

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QLast Update : Tue May 27 08:50:43 2008
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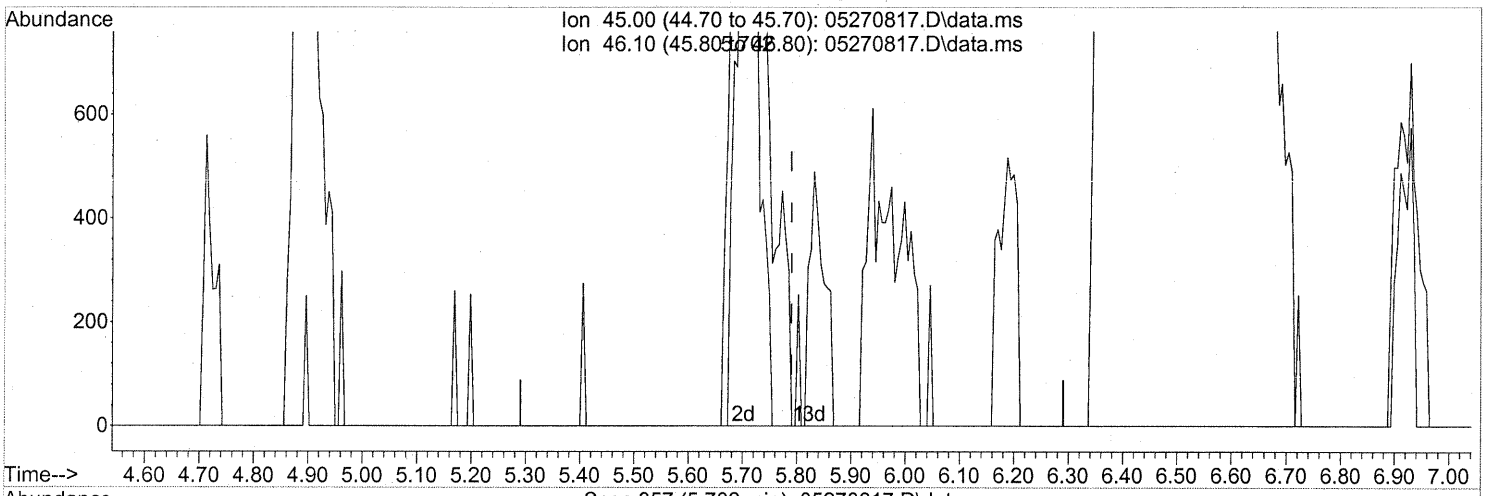

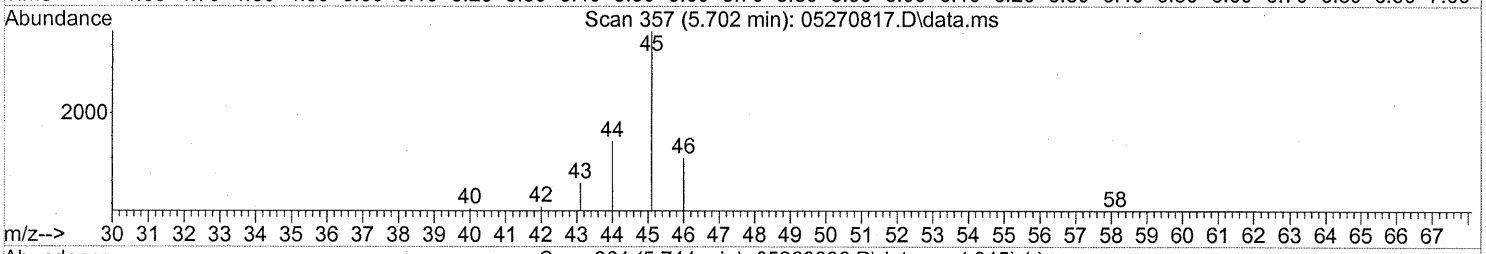

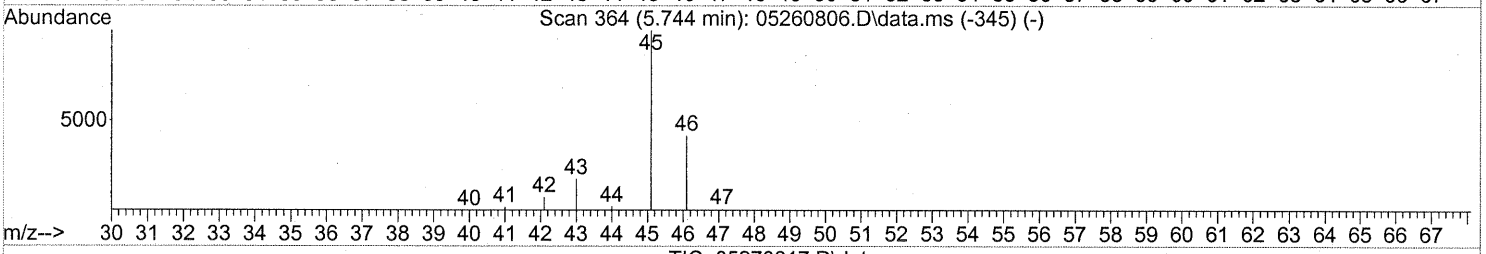

TIC: 05270817.D\data.ms

(10) Ethanol (T)

5.702min (-0.089) 0.57ng m

response 11369

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

int. corr. peak
6/4/08
6/4/08

426

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
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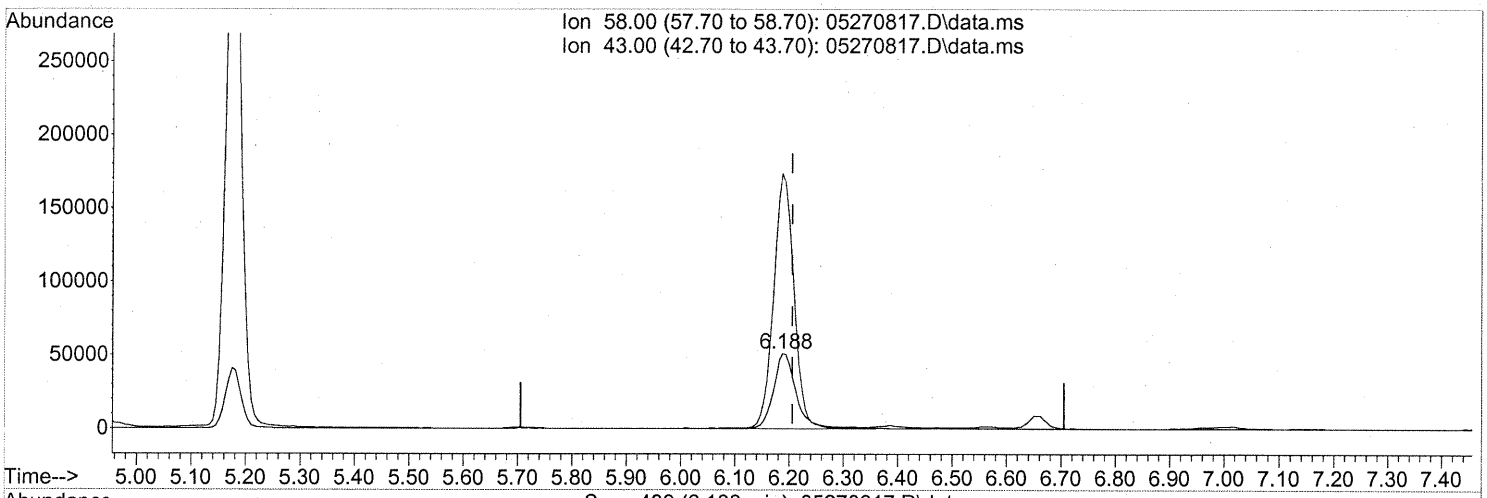

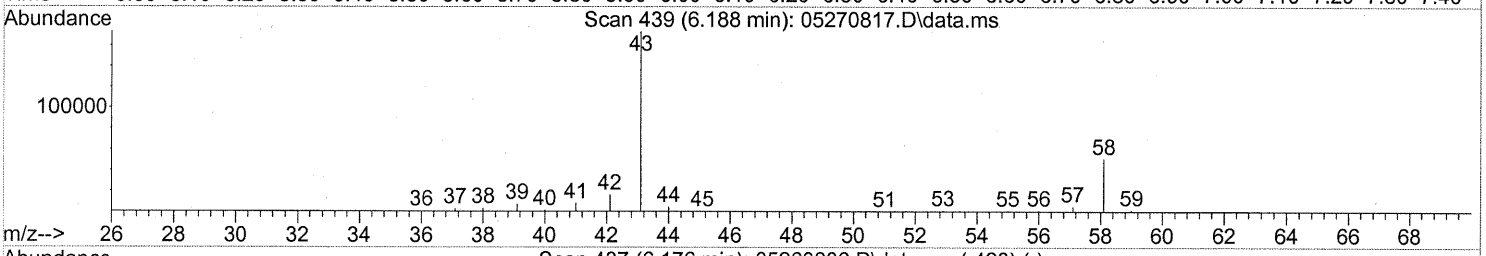

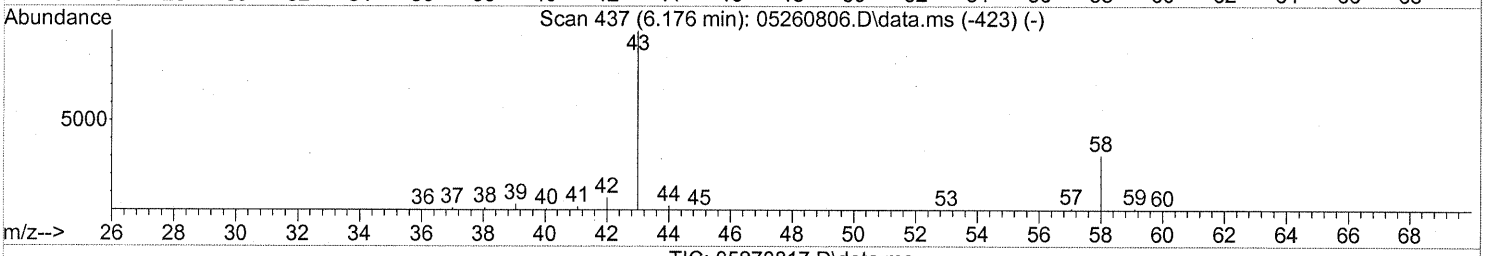

TIC: 05270817.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 7.24ng

response 144088

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	312.17#
0.00	0.00	0.00
0.00	0.00	0.00

427

Quantitation Report (Qedit)

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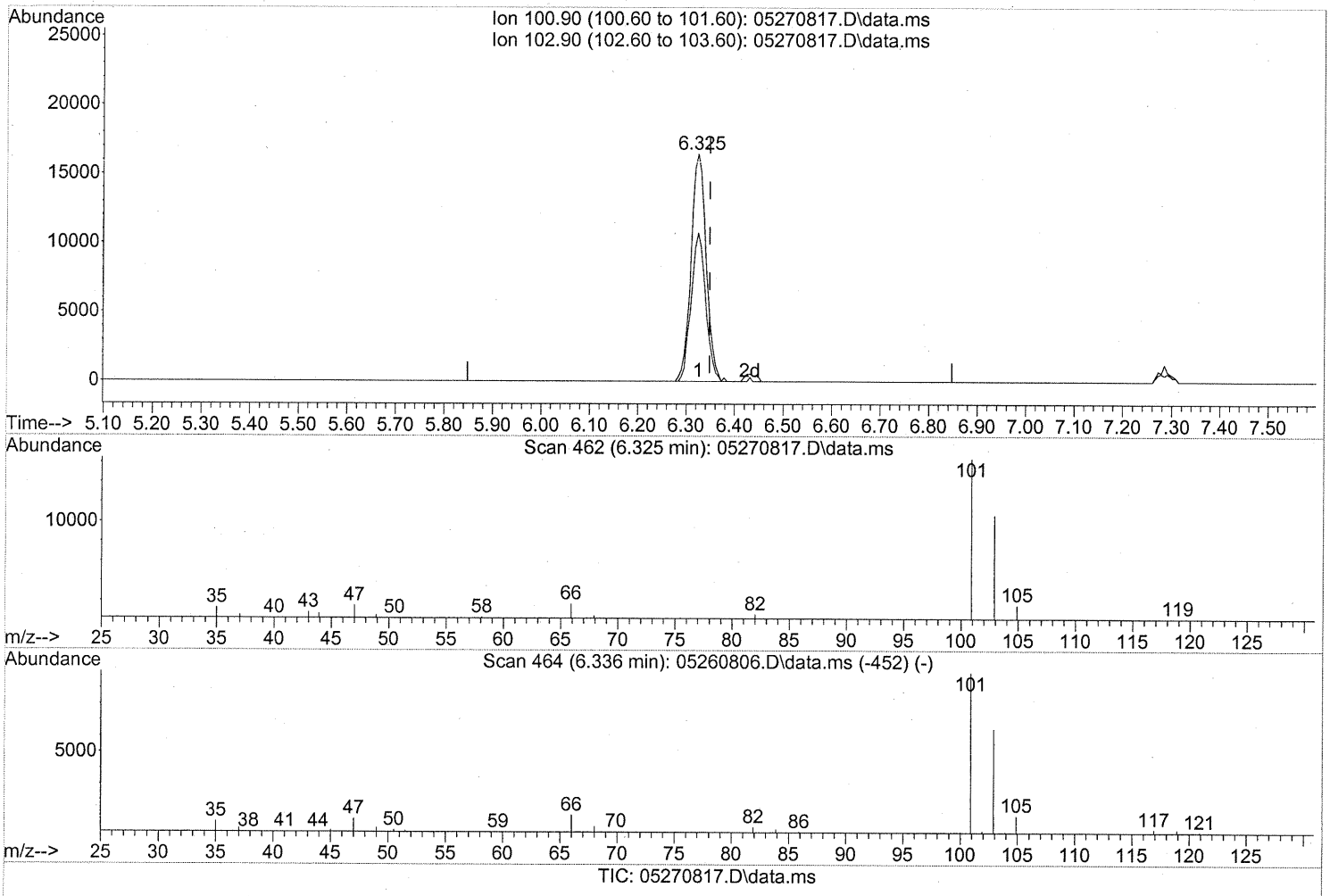
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(14) Trichlorofluoromethane (T)

6.325min (-0.024) 1.08ng

response 36073

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	62.88
0.00	0.00	0.00
0.00	0.00	0.00

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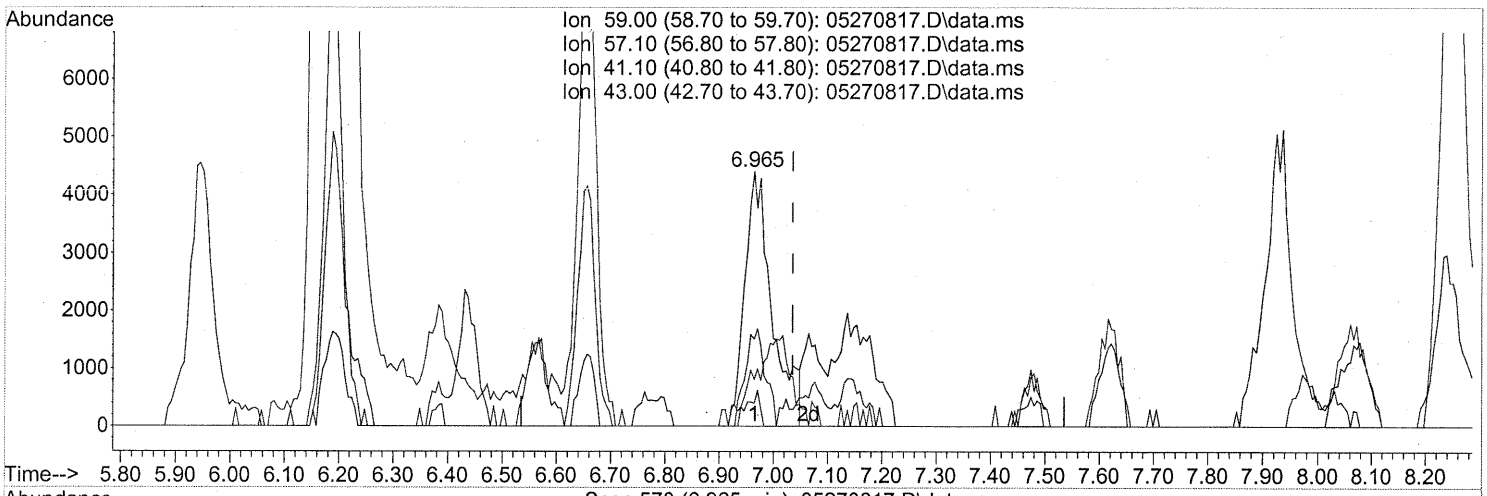
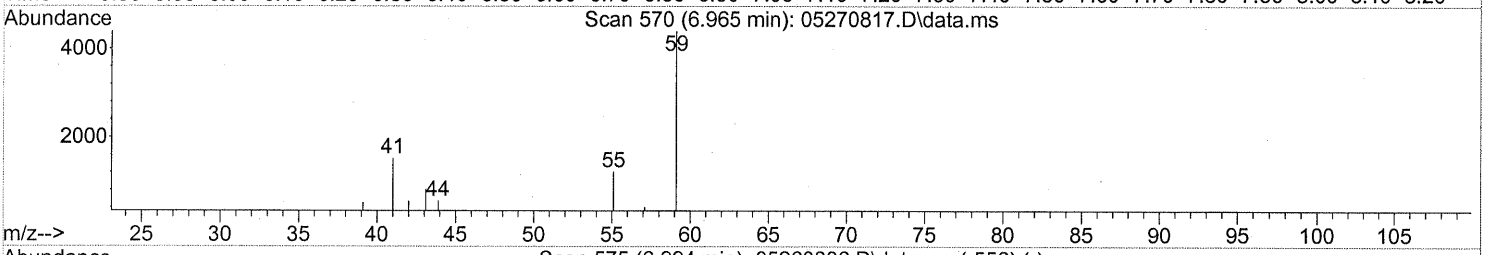
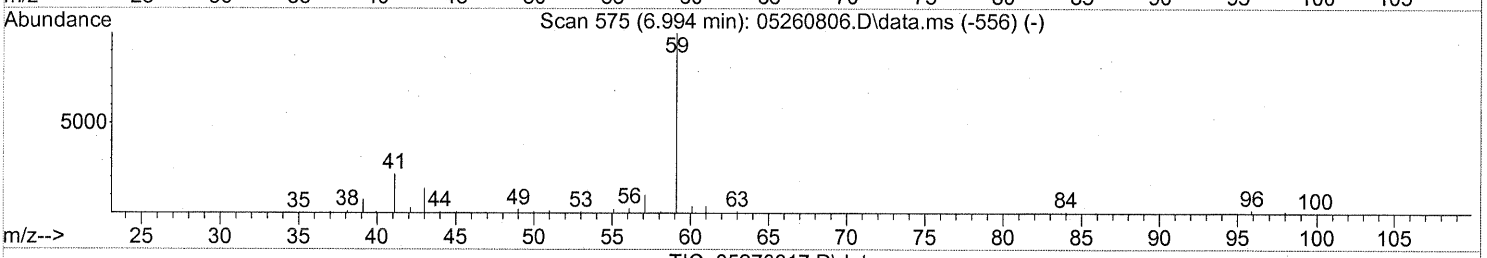






TIC: 05270817.D\data.ms

(18) tert-Butanol (T)

6.965min (-0.071) 0.27ng

response 15238

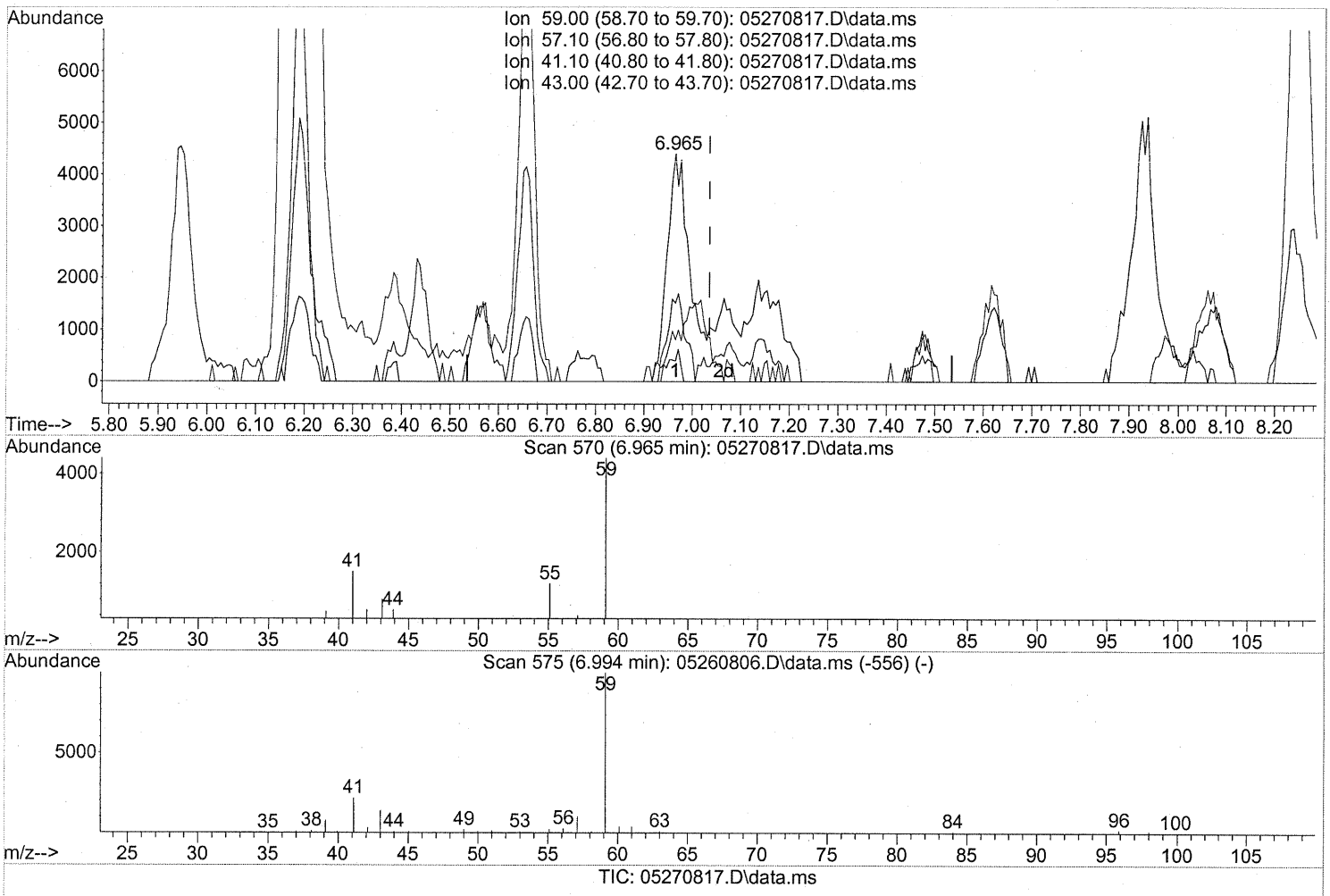
split peaks

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	6.39
41.10	21.90	28.07
43.00	17.20	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(18) tert-Butanol (T)

6.965min (-0.071) 0.50ng m

response 27838

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	3.50
41.10	21.90	15.36
43.00	17.20	0.00

int. whole peaks

6/4/08

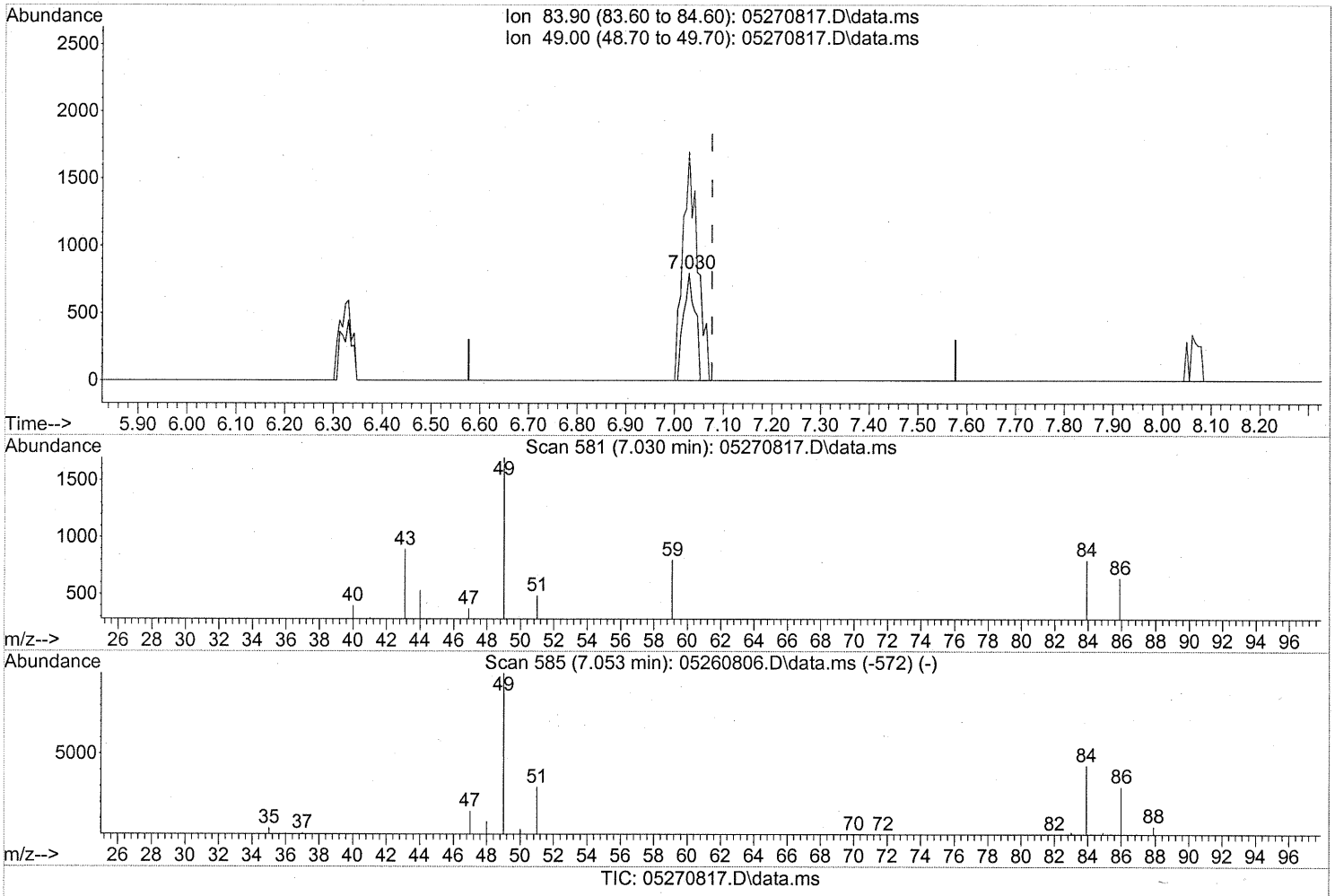
6/4/08

430

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(19) Methylene Chloride (T)

7.030min (-0.047) 0.09ng

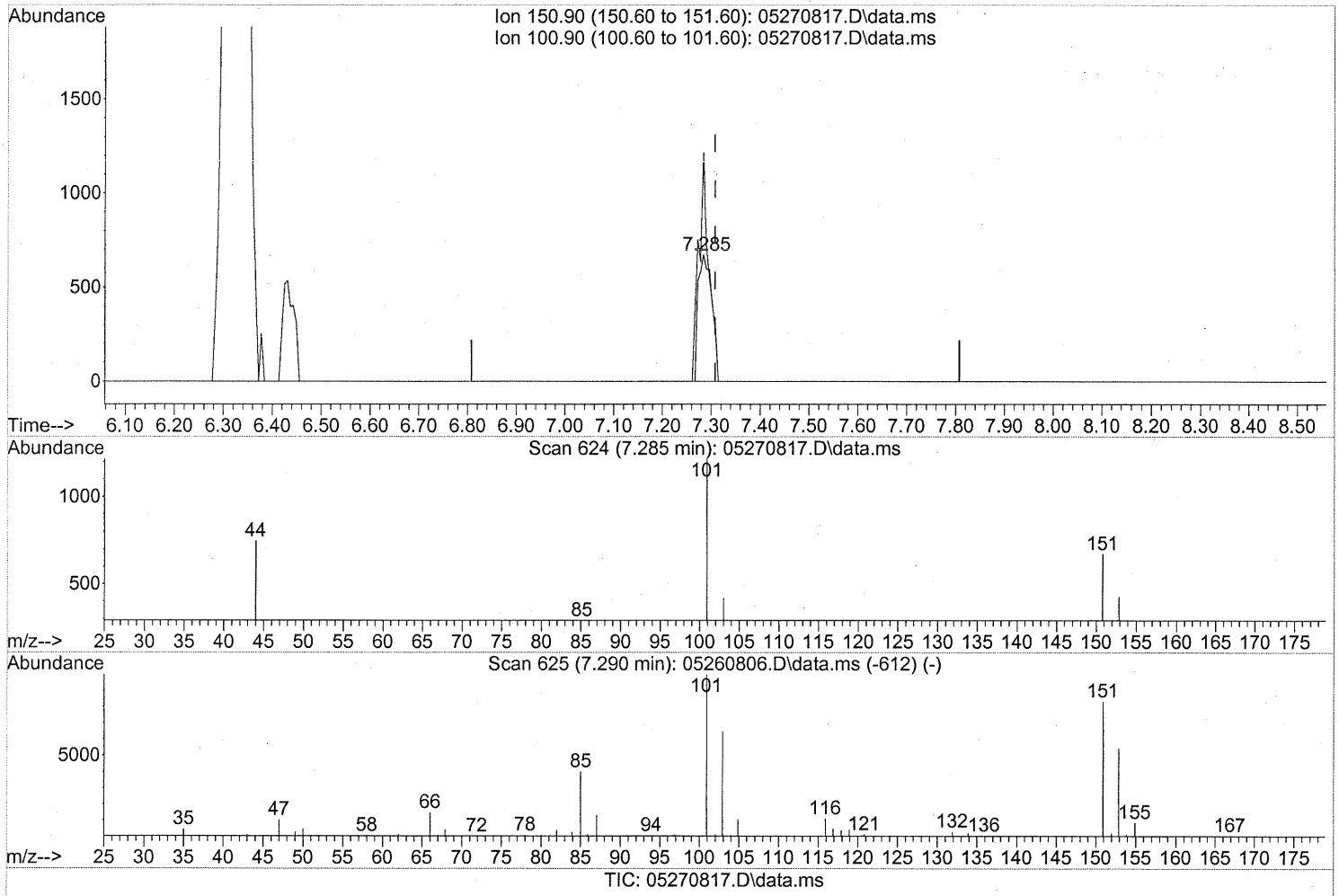
response 1354

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	270.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(21) Trichlorotrifluoroethane (T)

7.285min (-0.024) 0.08ng

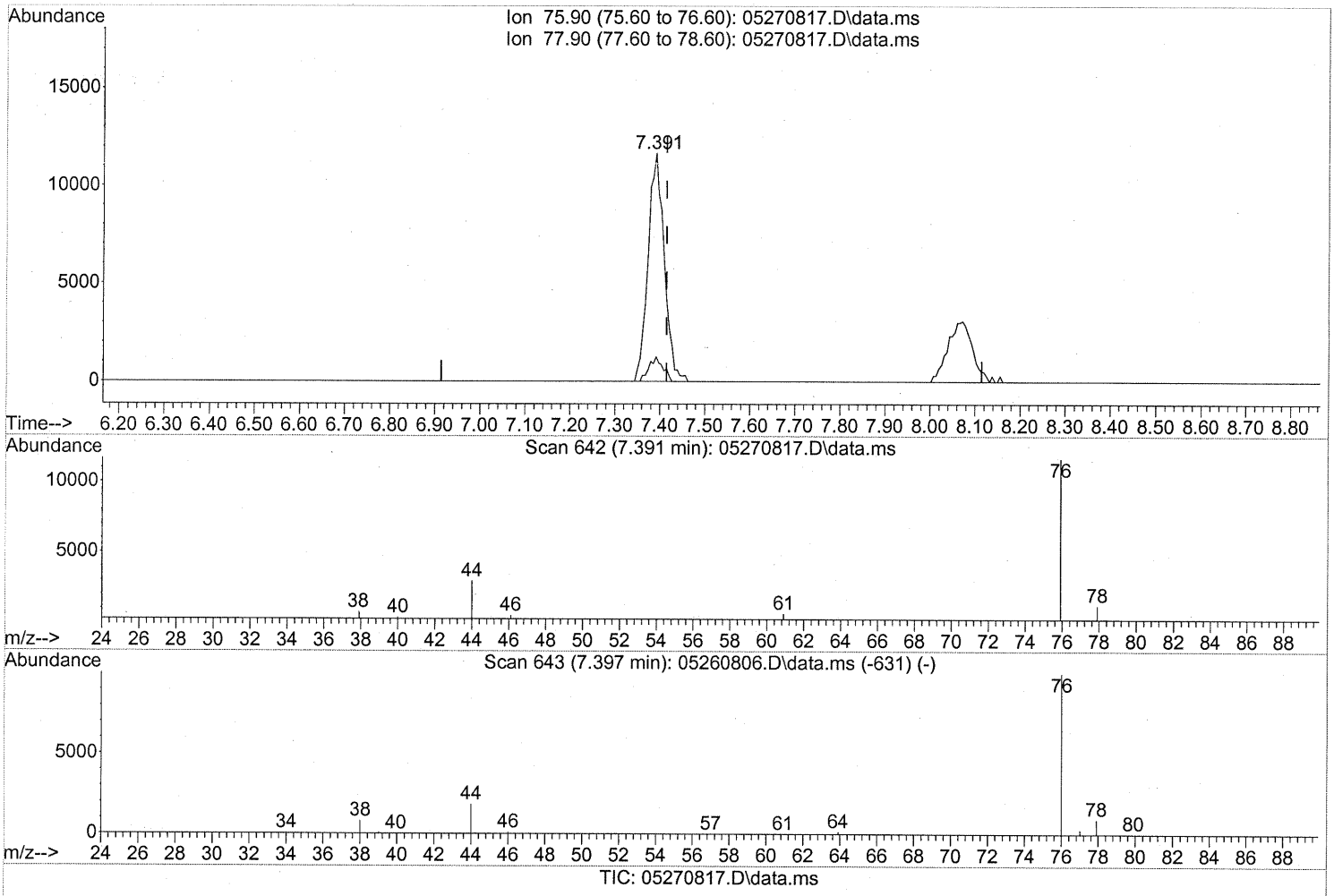
response 1306

Ion	Exp%	Act%
150.90	100	100
100.90	136.10	134.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(22) Carbon Disulfide (T)

7.391min (-0.024) 0.47ng

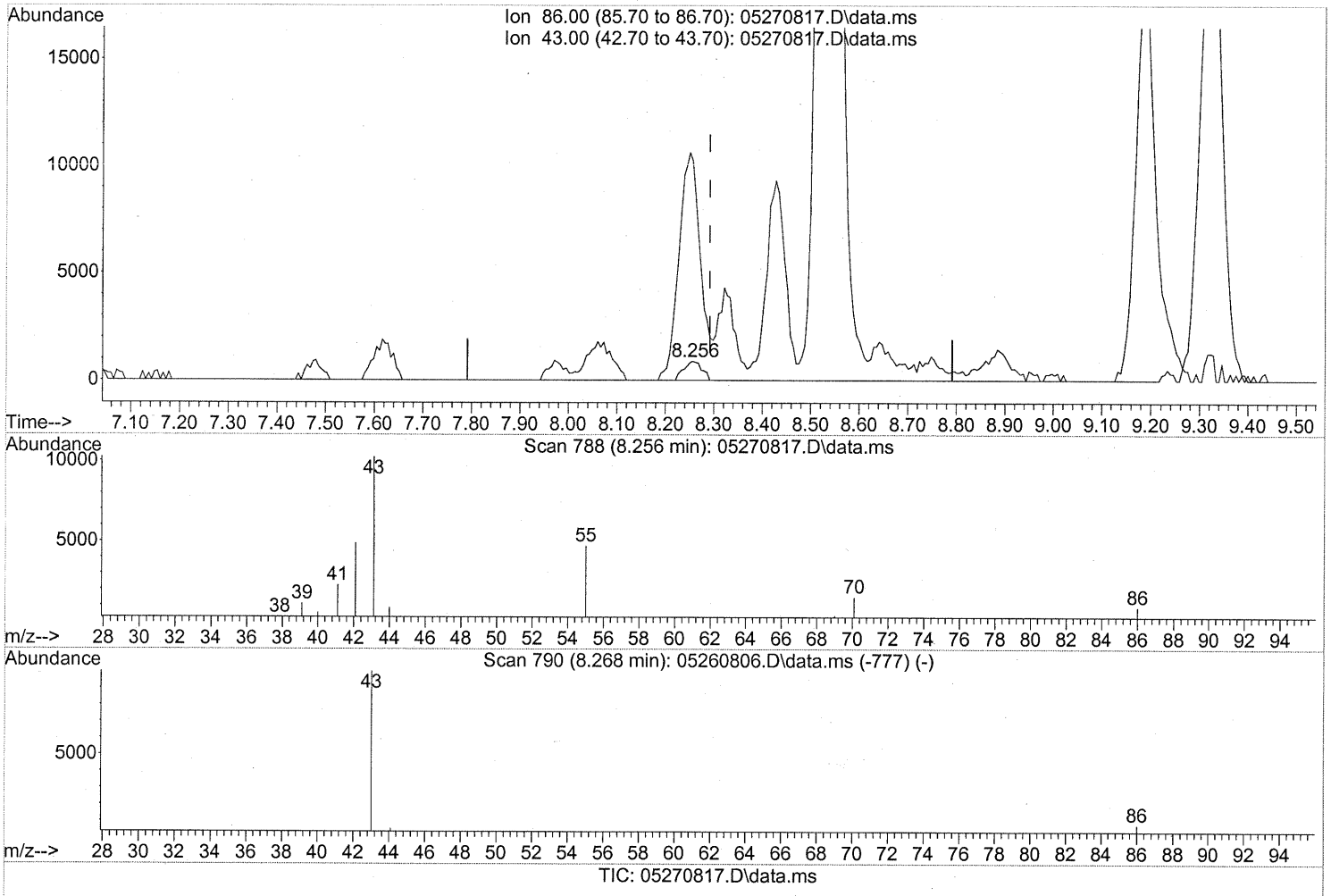
response 29117

Ion	Exp%	Act%
75.90	100	100
77.90	9.10	9.16
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(26) Vinyl Acetate (T)

8.256min (-0.036) 0.70ng

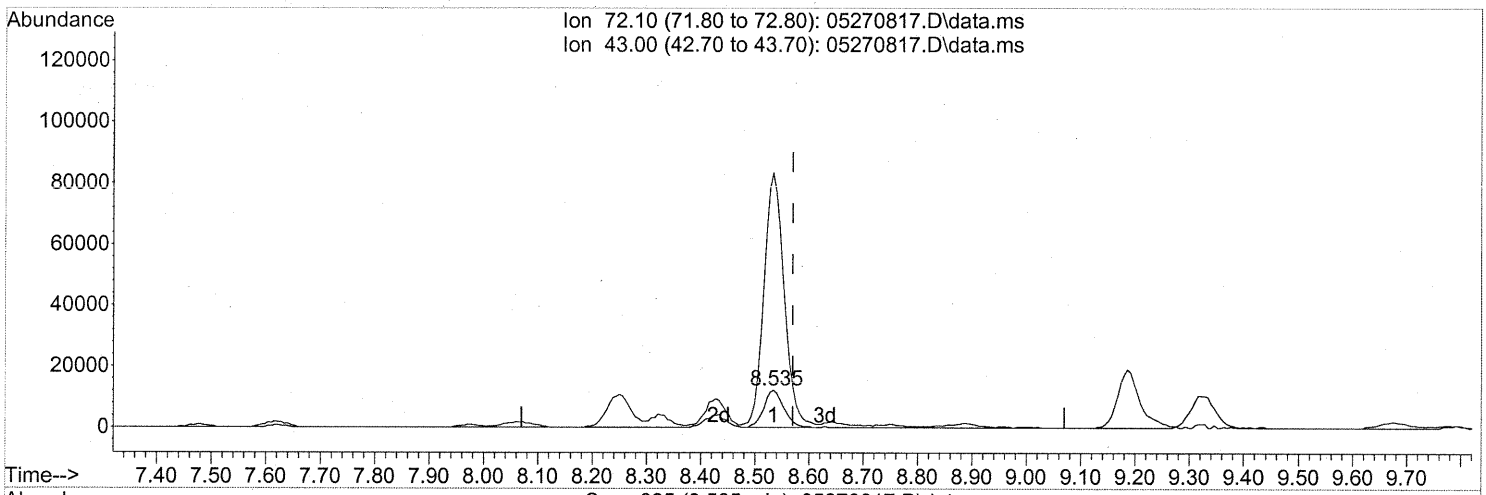
response 2275

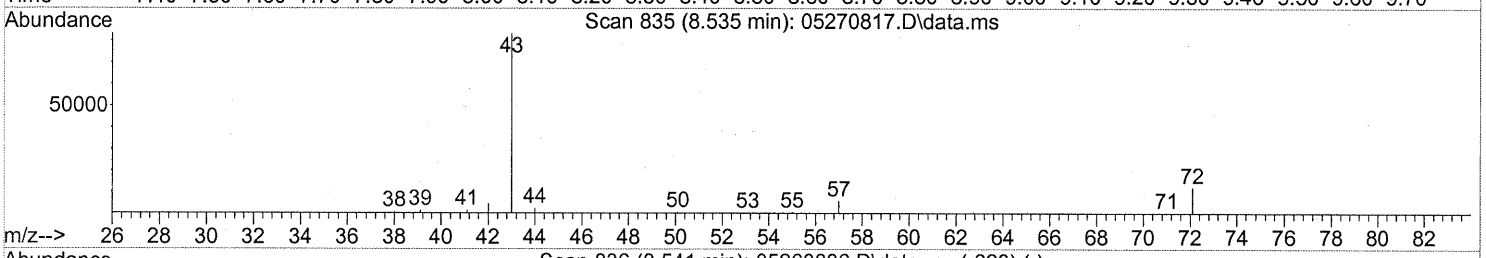
Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	1457.05#
0.00	0.00	0.00
0.00	0.00	0.00

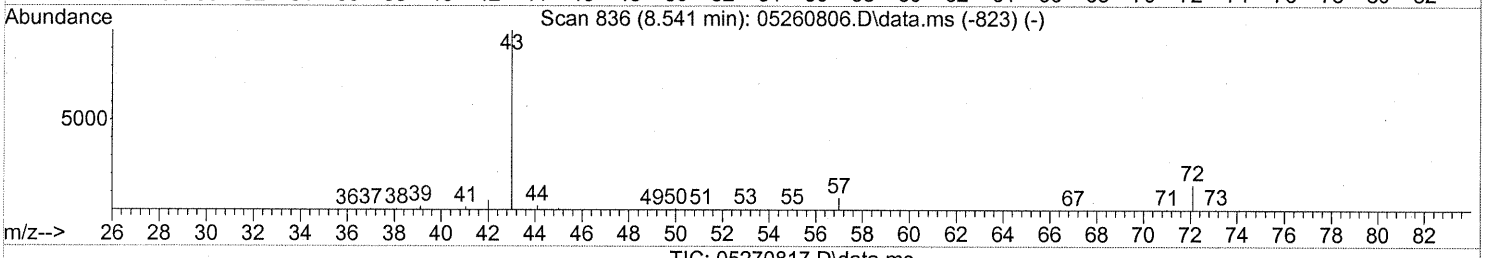
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(27) 2-Butanone (T)

8.535min (-0.036) 2.99ng

response 31124

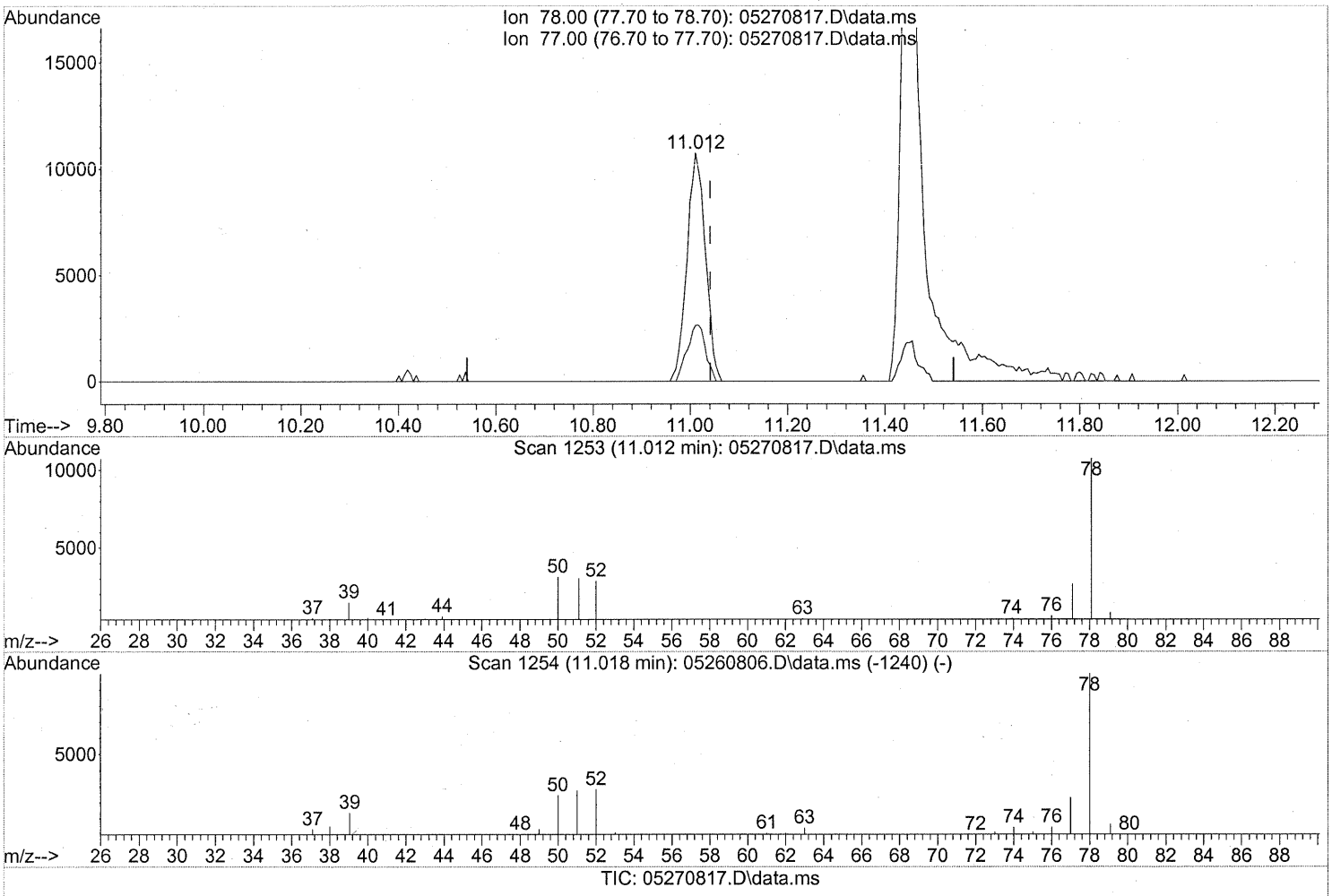
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	700.13#
0.00	0.00	0.00
0.00	0.00	0.00

435

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(41) Benzene (T)

11.012min (-0.030) 0.42ng

response 28214

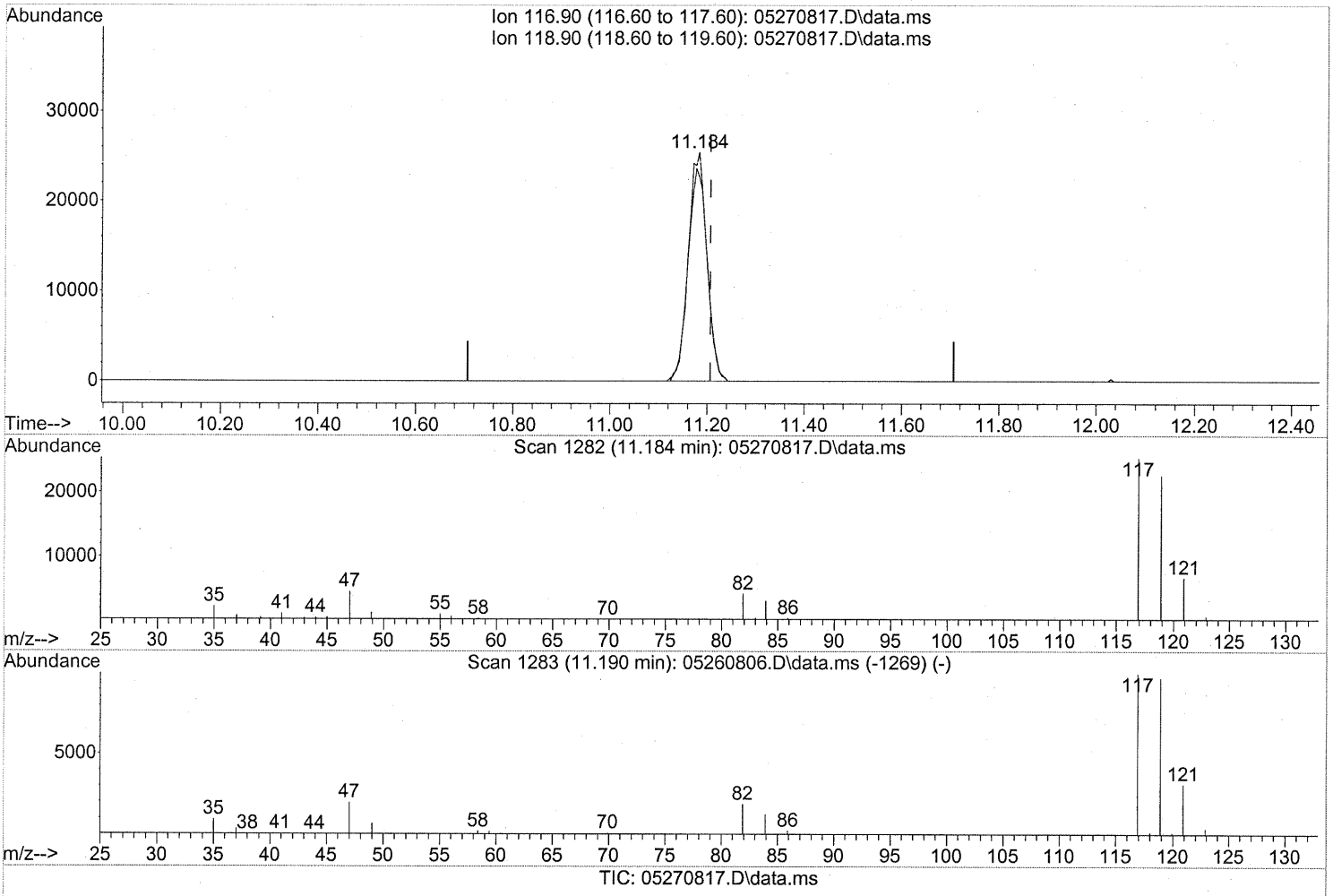
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.43
0.00	0.00	0.00
0.00	0.00	0.00

436

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(42) Carbon Tetrachloride (T)

11.184min (-0.024) 2.46ng

response 67993

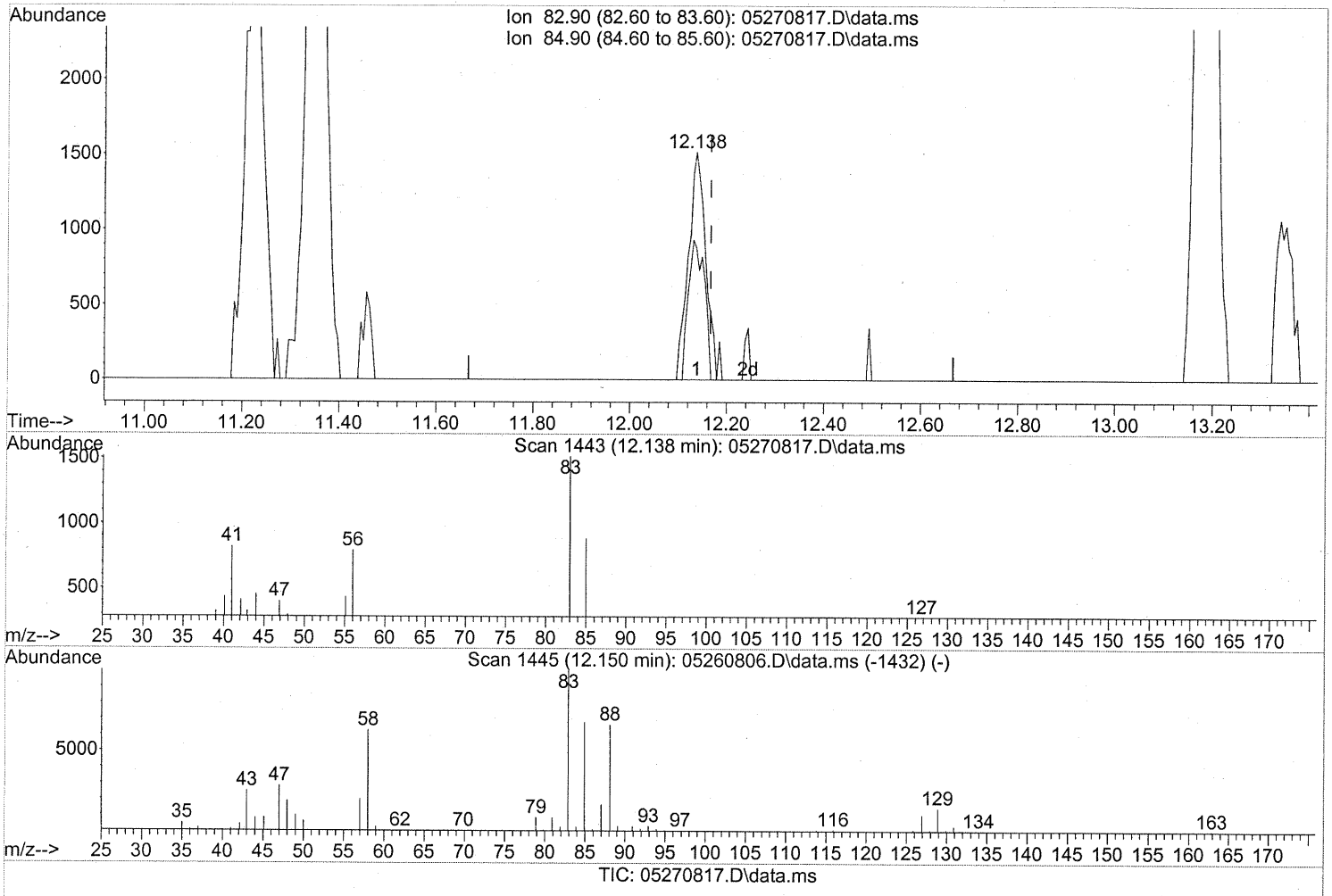
Ion	Exp%	Act%
116.90	100	100
118.90	95.30	95.87
0.00	0.00	0.00
0.00	0.00	0.00

437

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(46) Bromodichloromethane (T)

12.138min (-0.030) 0.19ng

response 3853

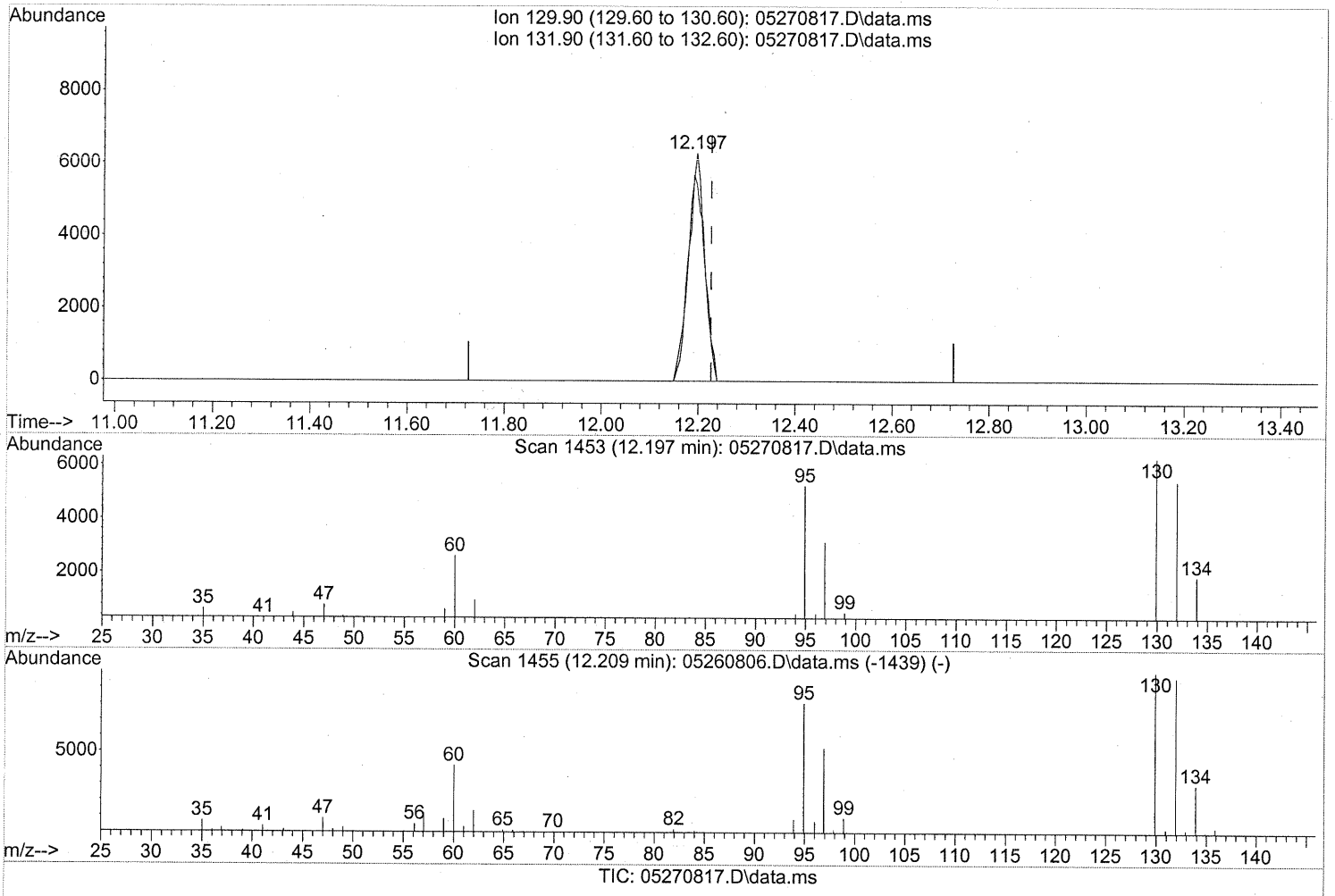
Ion	Exp%	Act%
82.90	100	100
84.90	62.30	56.09
0.00	0.00	0.00
0.00	0.00	0.00

438

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.197min (-0.030) 0.70ng

response 14717

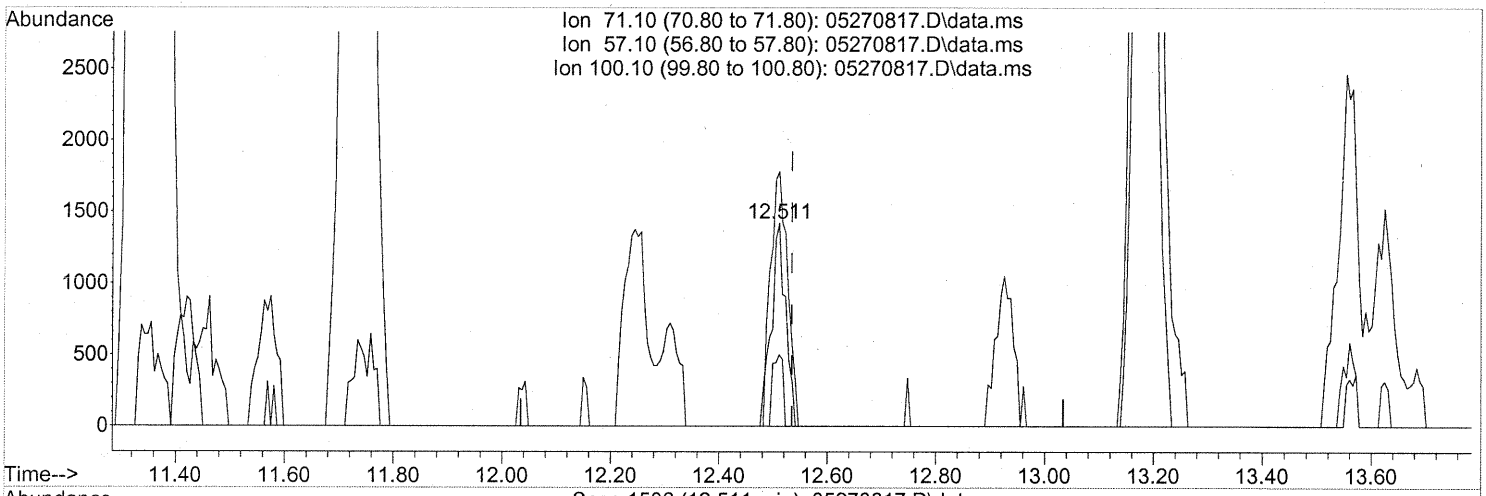
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	94.30
0.00	0.00	0.00
0.00	0.00	0.00

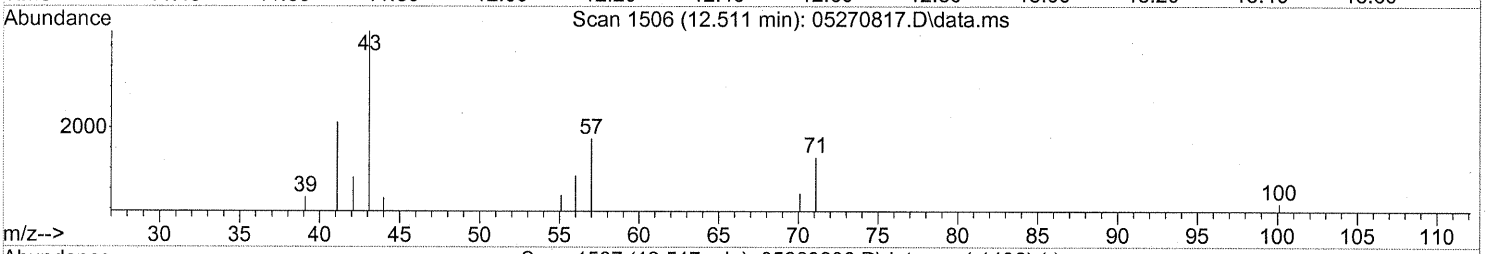
439

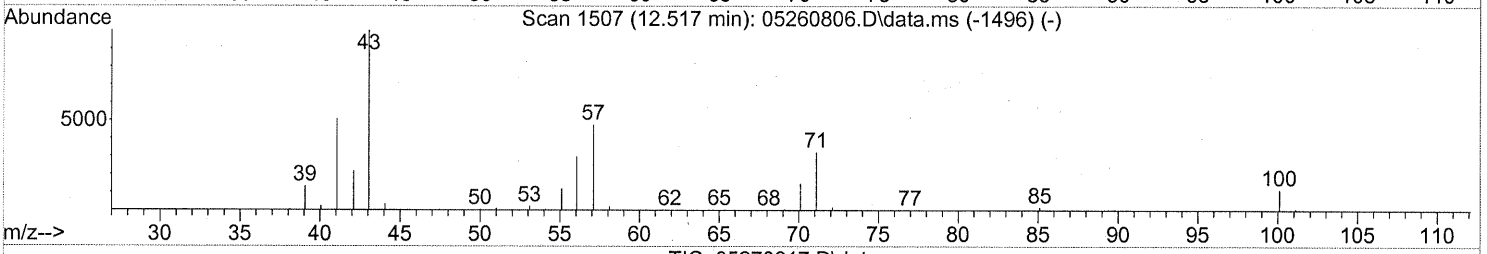
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(51) n-Heptane (T)

12.511min (-0.024) 0.16ng

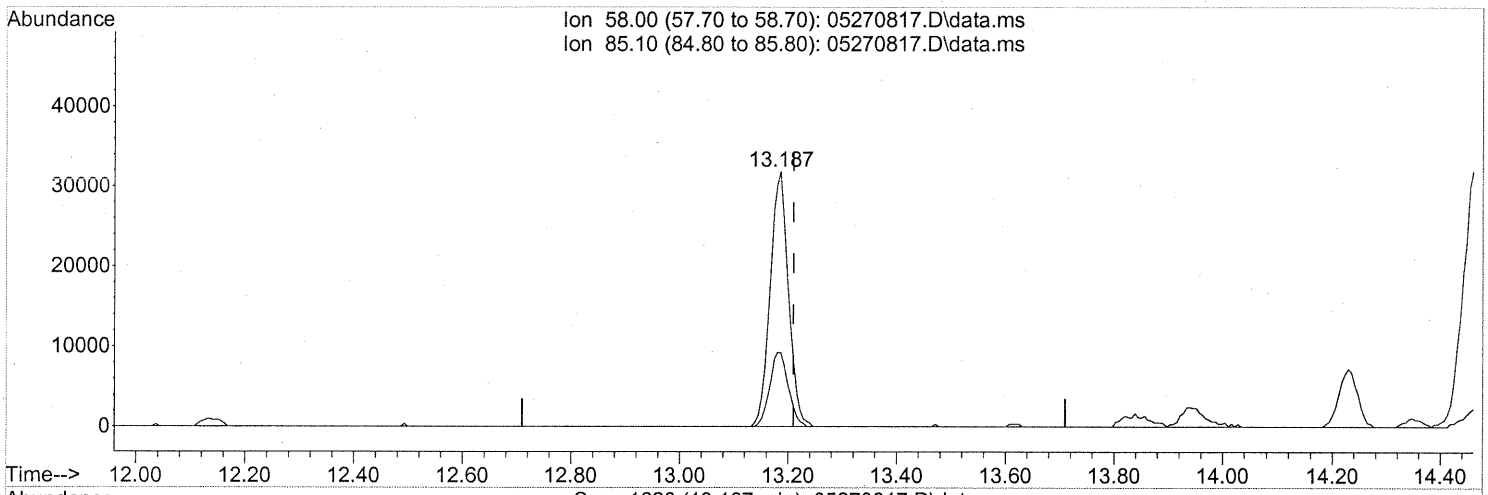
response 2614

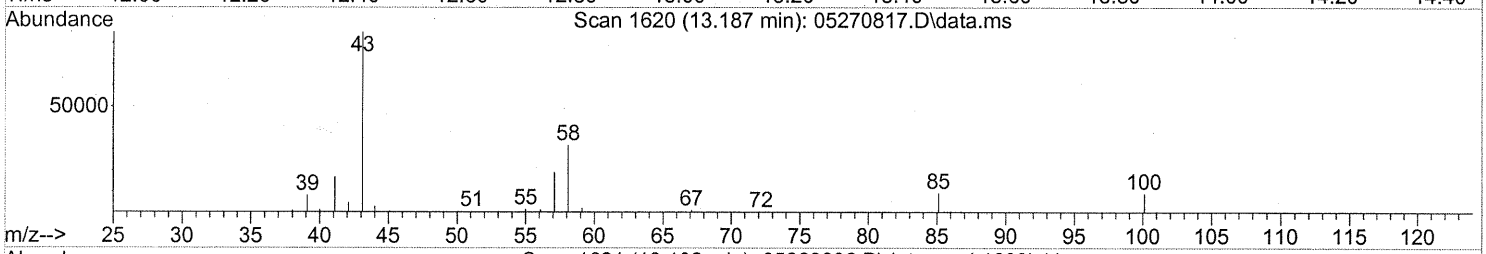
Ion	Exp%	Act%
71.10	100	100
57.10	88.70	150.54#
100.10	28.80	25.17
0.00	0.00	0.00

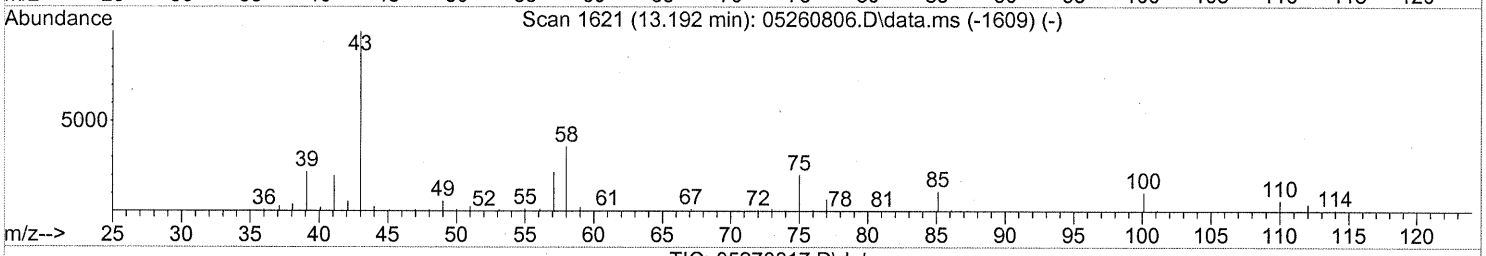
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

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

13.187min (-0.024) 3.18ng

response 74420

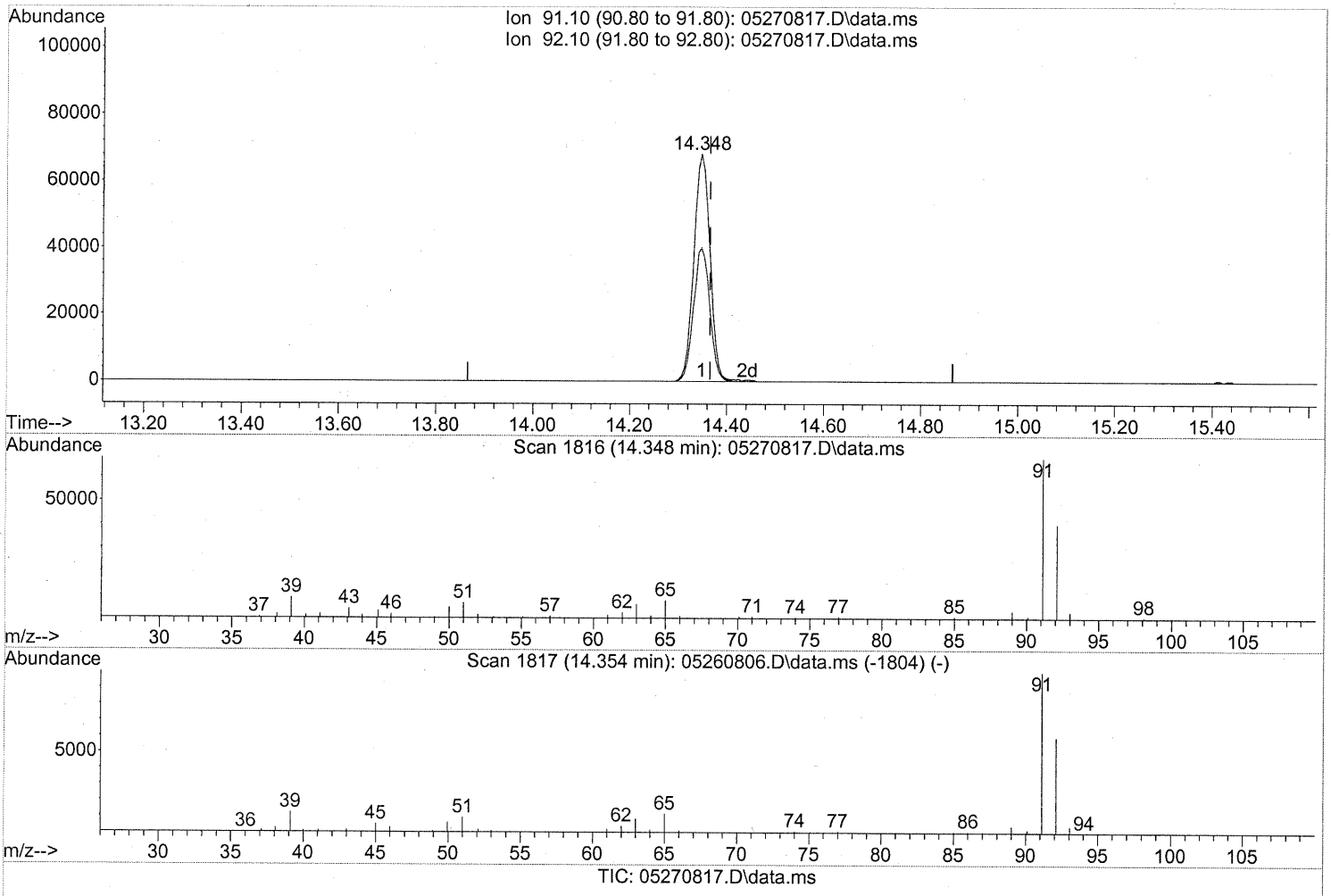
Ion	Exp%	Act%
58.00	100	100
85.10	40.70	29.56
0.00	0.00	0.00
0.00	0.00	0.00

441

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 2.05ng

response 157744

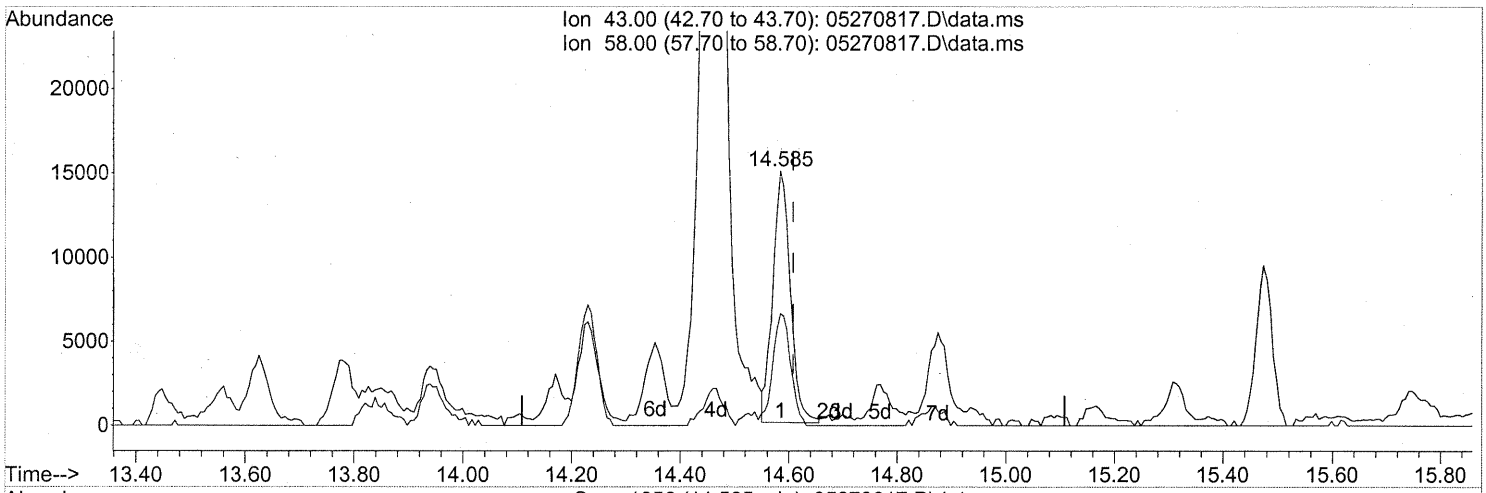
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.05
0.00	0.00	0.00
0.00	0.00	0.00

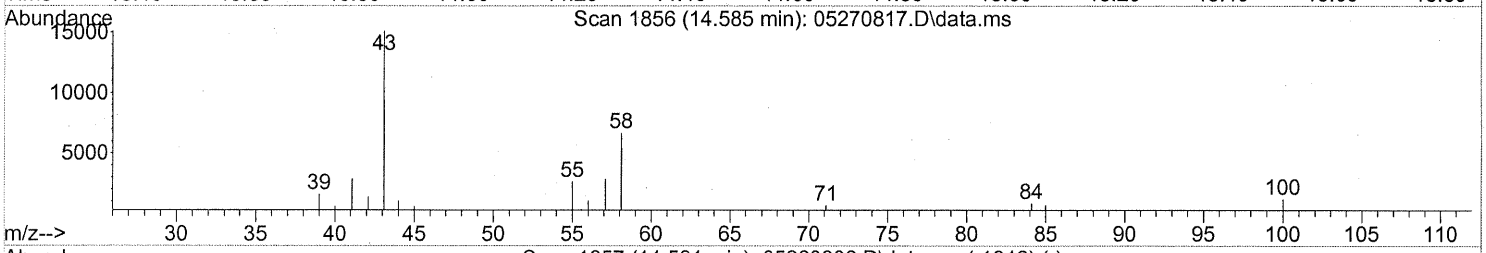
442

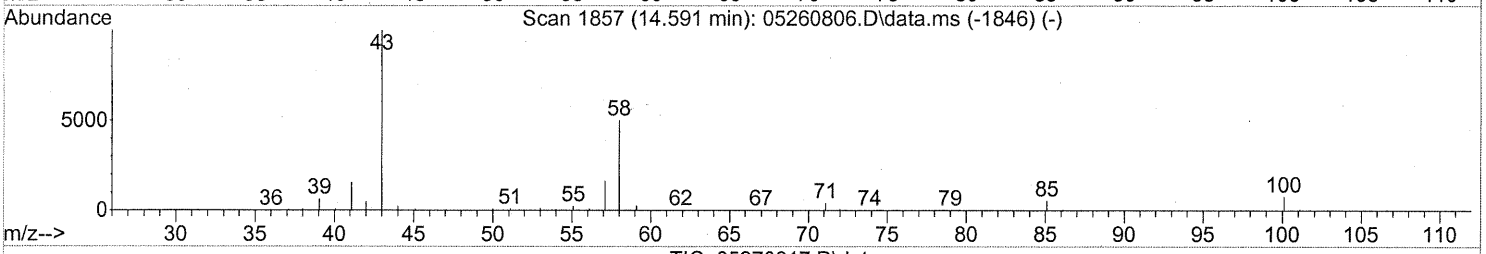
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(59) 2-Hexanone (T)

14.585min (-0.024) 0.47ng

response 34072

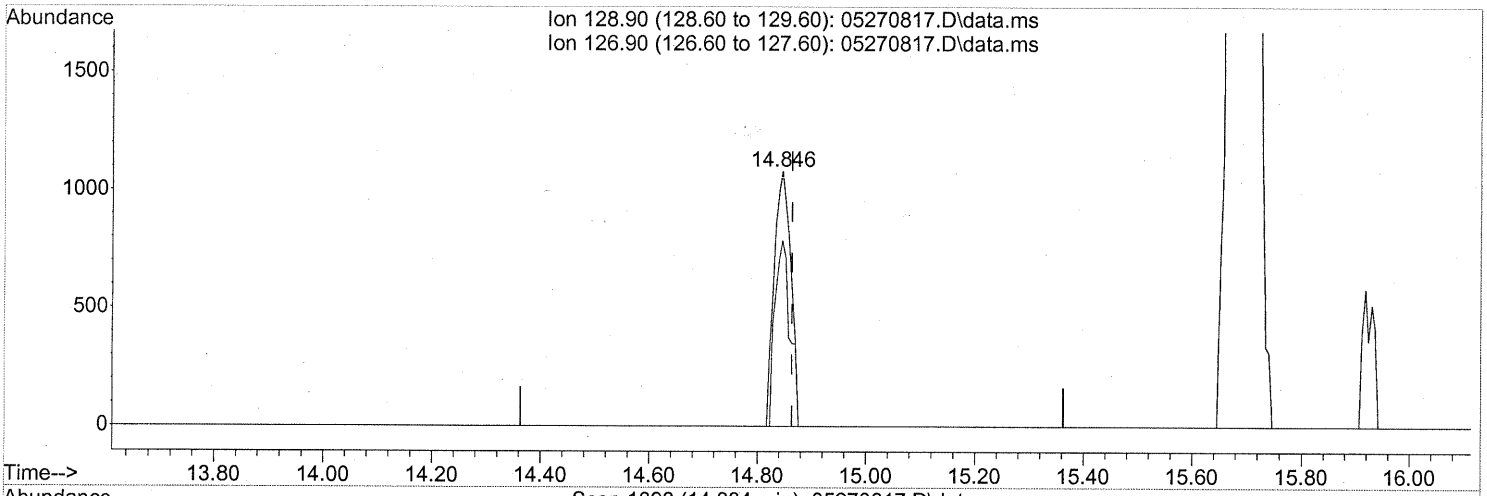
Ion	Exp%	Act%
43.00	100	100
58.00	50.90	45.45
0.00	0.00	0.00
0.00	0.00	0.00

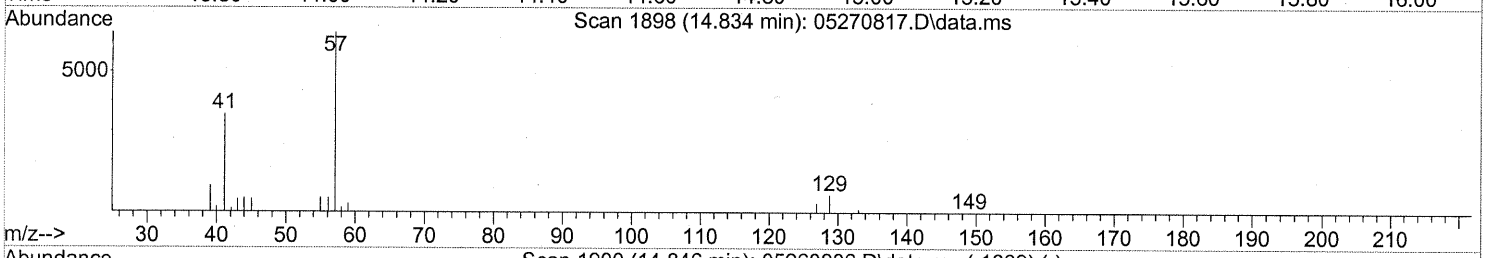
443

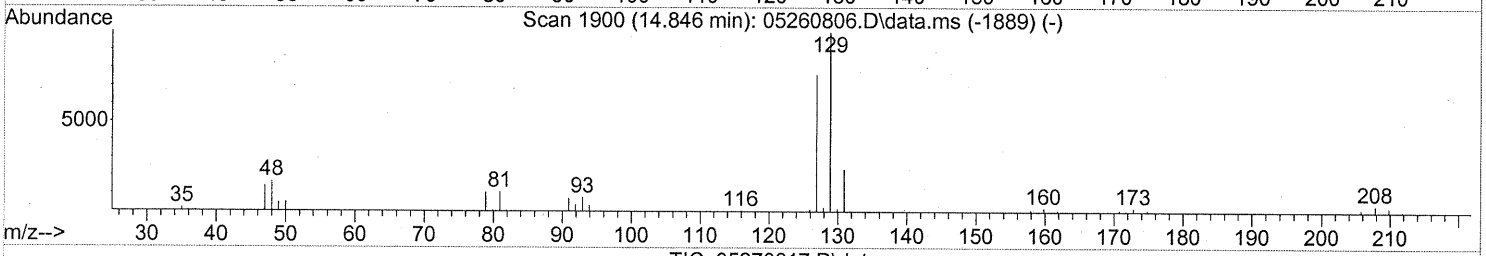
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(60) Dibromochloromethane (T)

14.846min (-0.018) 0.10ng

response 2314

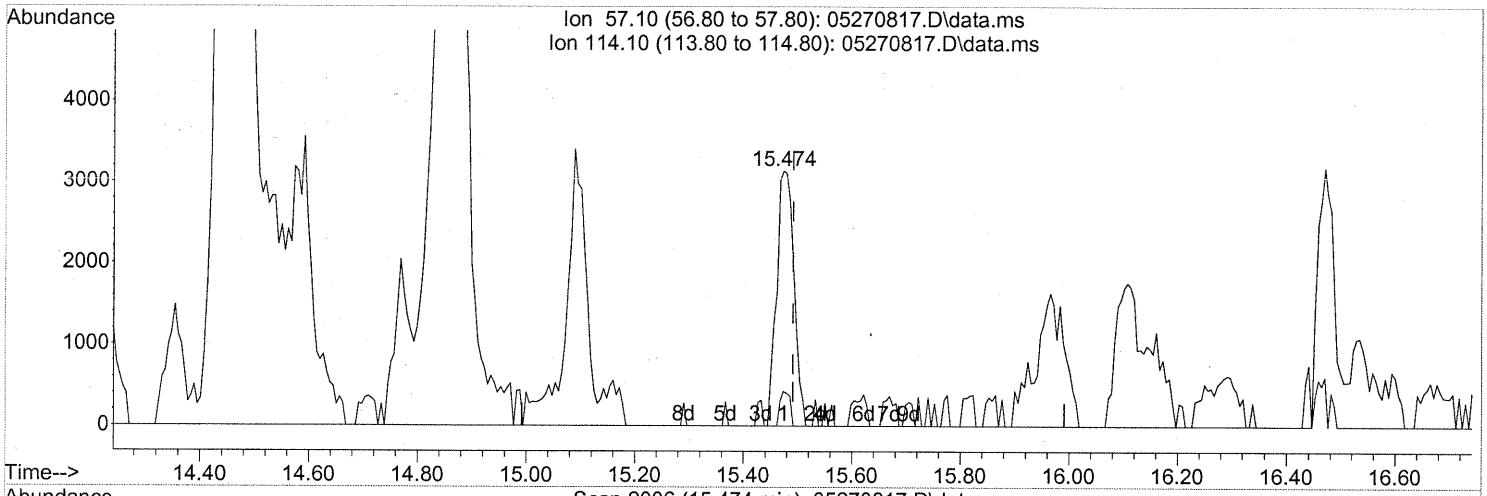
Ion	Exp%	Act%
128.90	100	100
126.90	77.20	65.90
0.00	0.00	0.00
0.00	0.00	0.00

444

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.30ng

response 6931

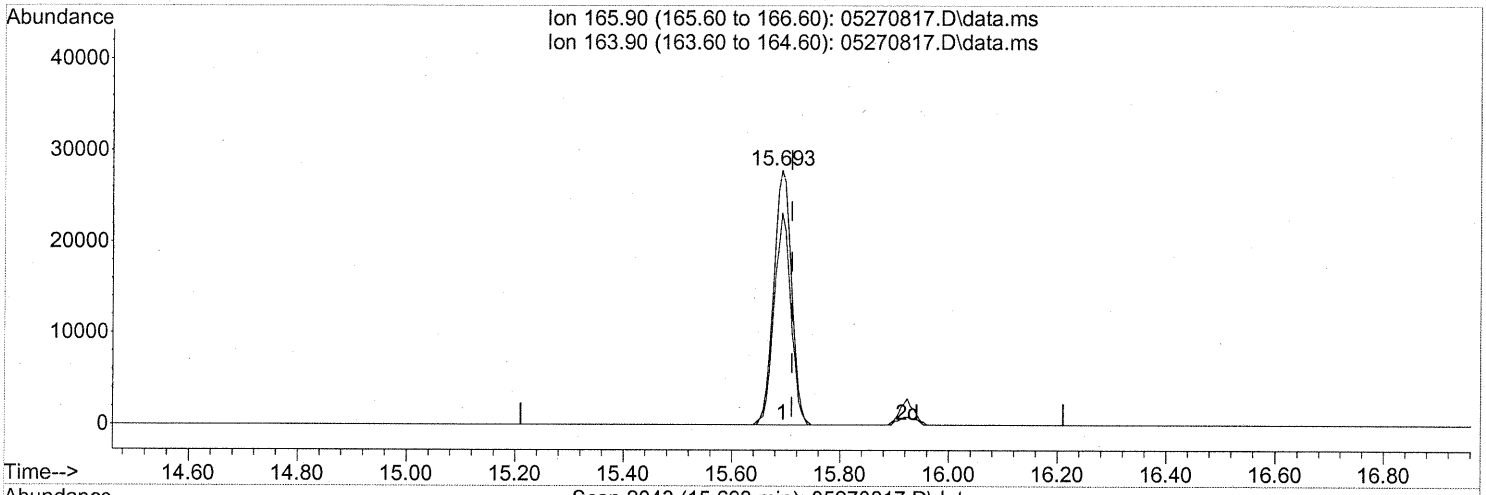
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	7.65
0.00	0.00	0.00
0.00	0.00	0.00

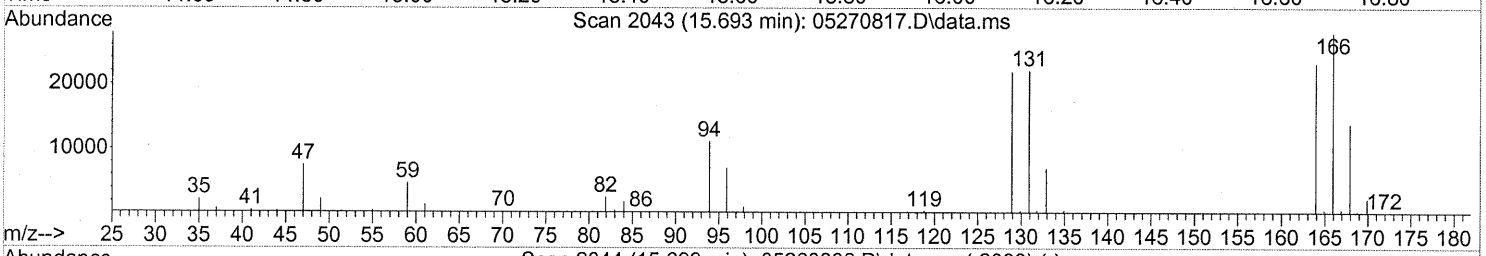
445

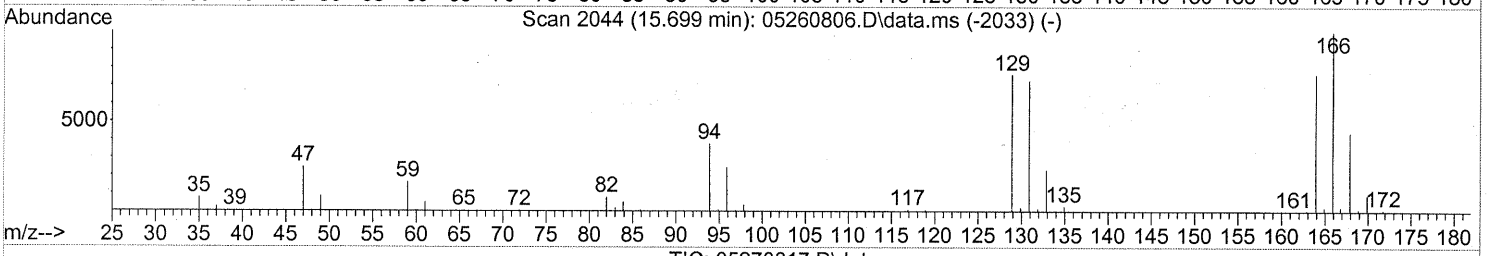
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 2.76ng

response 63066

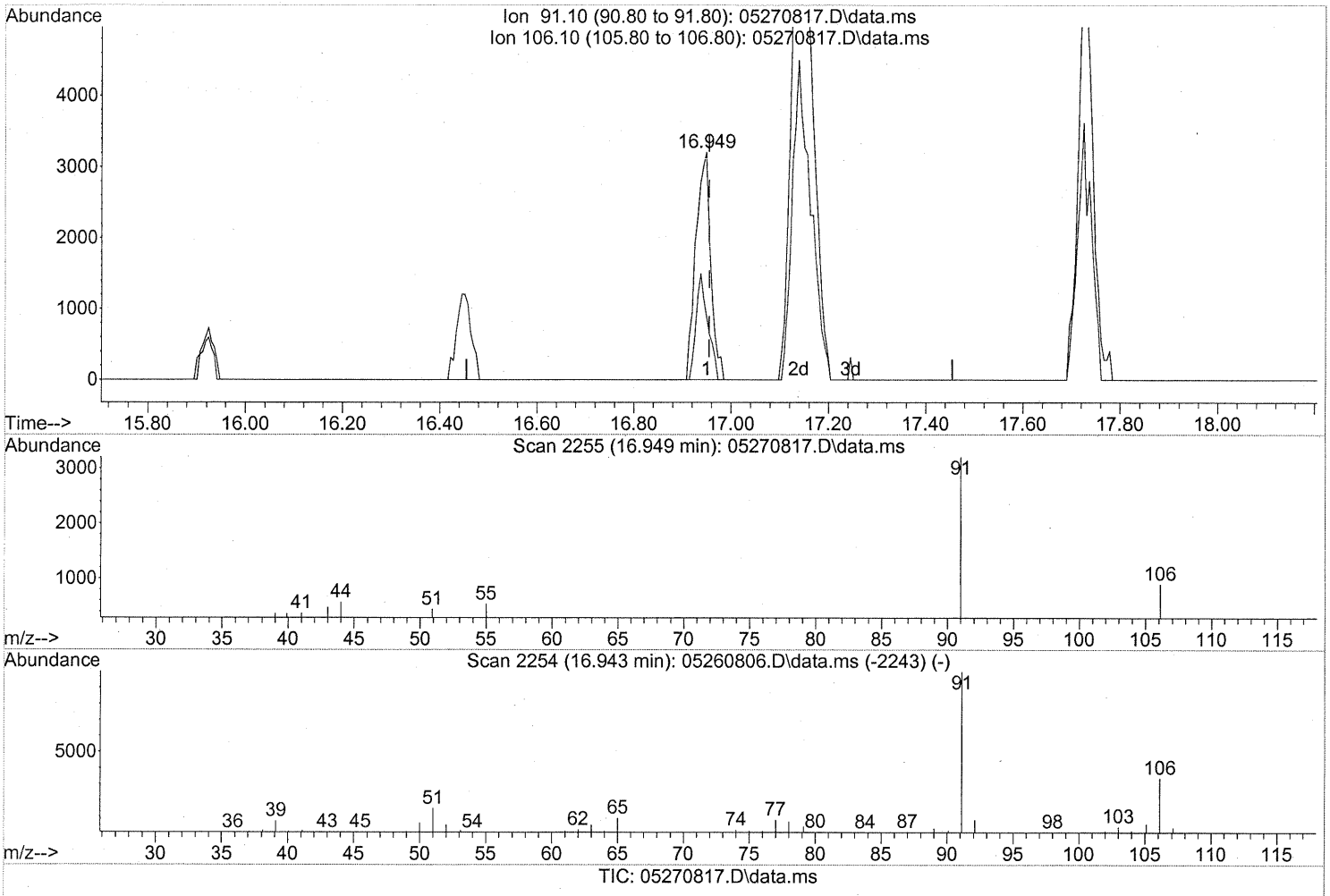
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.54
0.00	0.00	0.00
0.00	0.00	0.00

446

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(66) Ethylbenzene (T)

16.949min (-0.006) 0.08ng

response 6758

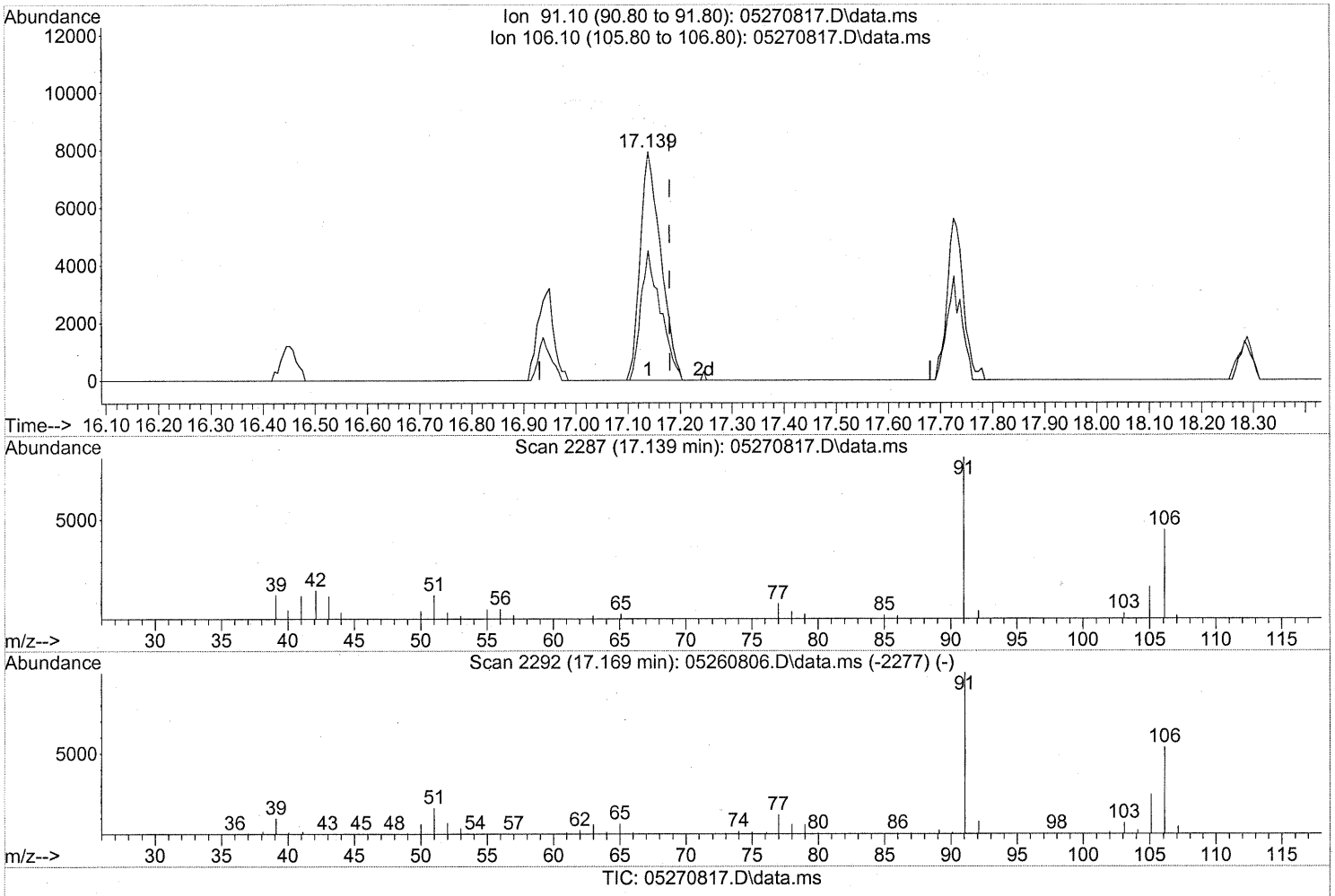
Ion	Exp%	Act%
91.10	100	100
106.10	29.90	36.80
0.00	0.00	0.00
0.00	0.00	0.00

447

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

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

17.139min (-0.041) 0.38ng

response 21895

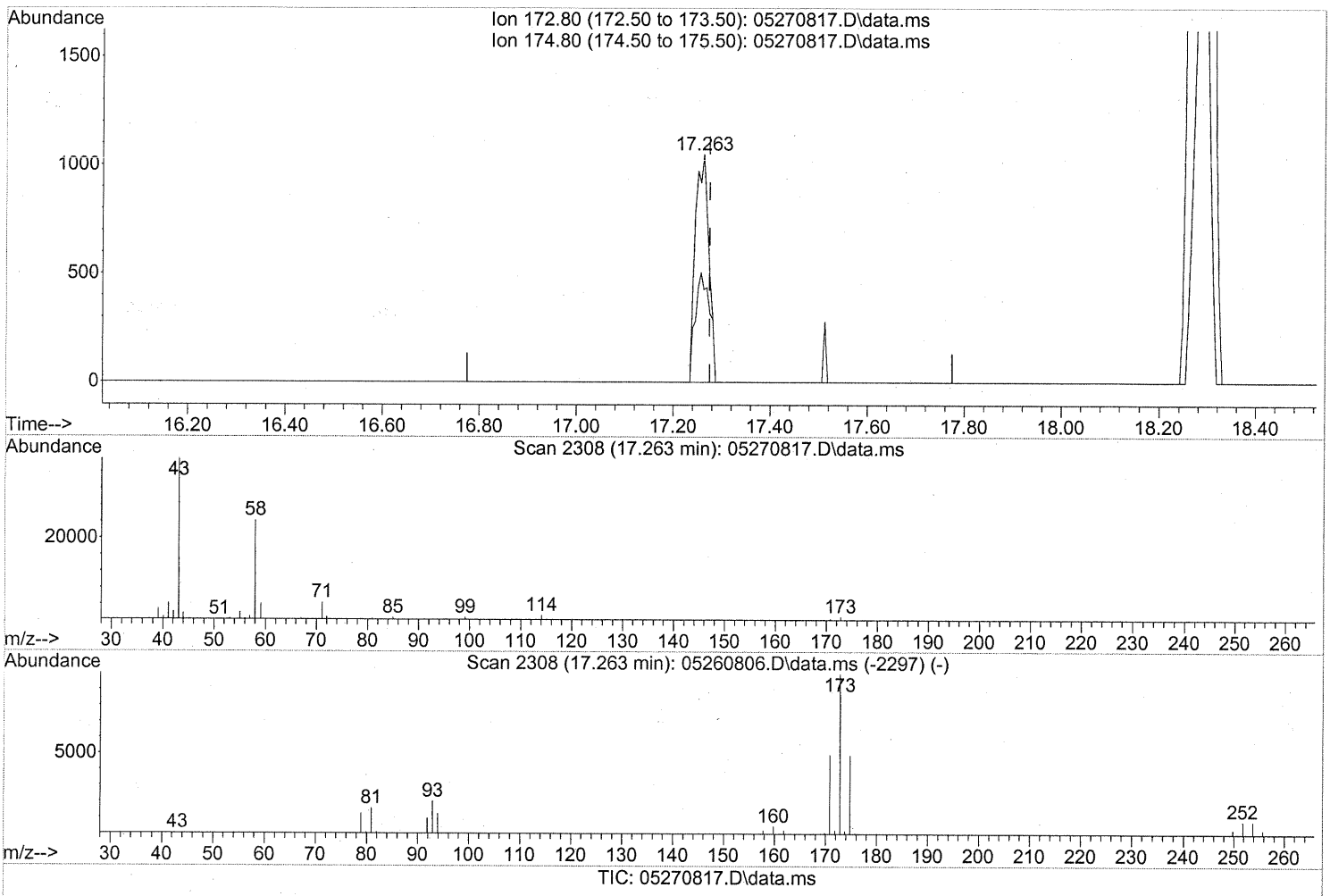
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	54.46
0.00	0.00	0.00
0.00	0.00	0.00

448

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 07:59:33 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(68) Bromoform (T)

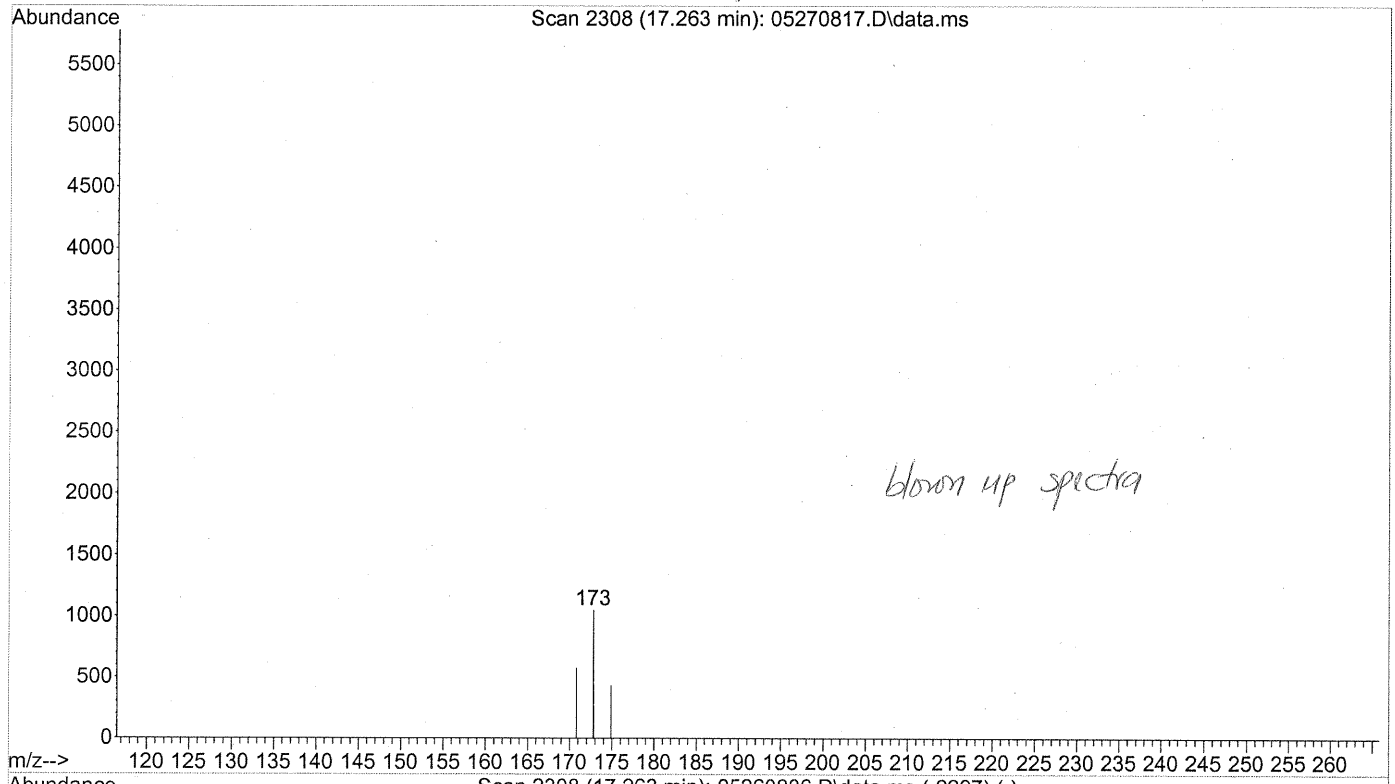
17.263min (-0.012) 0.15ng

response 2027

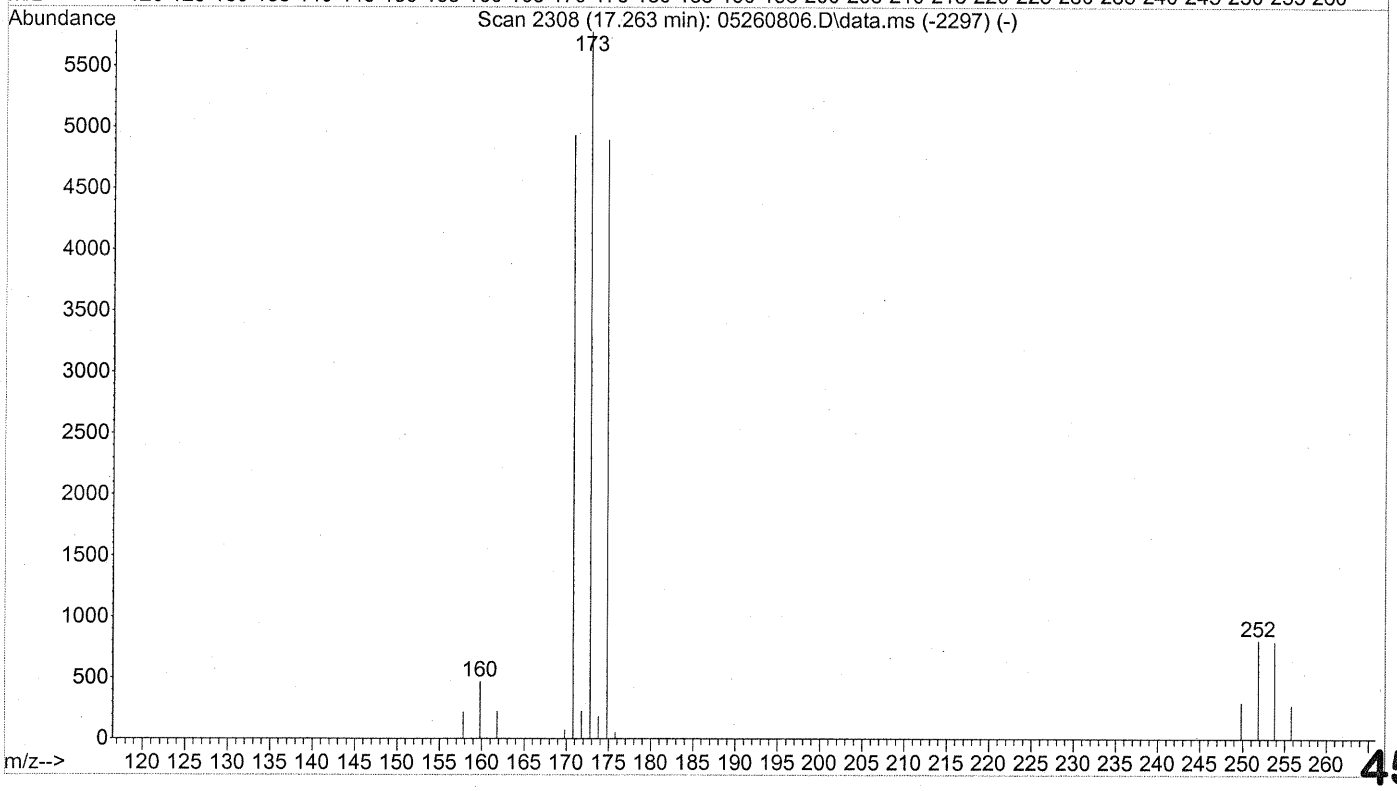
Ion	Exp%	Act%
172.80	100	100
174.80	48.50	51.60
0.00	0.00	0.00
0.00	0.00	0.00

449

File :J:\MS16\DATA\2008_05\27\05270817.D
Operator : WA
Acquired : 27 May 2008 22:57 using AcqMethod TO15.M
Instrument : GCMS-16
Sample Name: P0801507-012 (250ml)
Misc Info : ENSR SG13B-05 (-3.3, 3.6)
Vial Number: 9



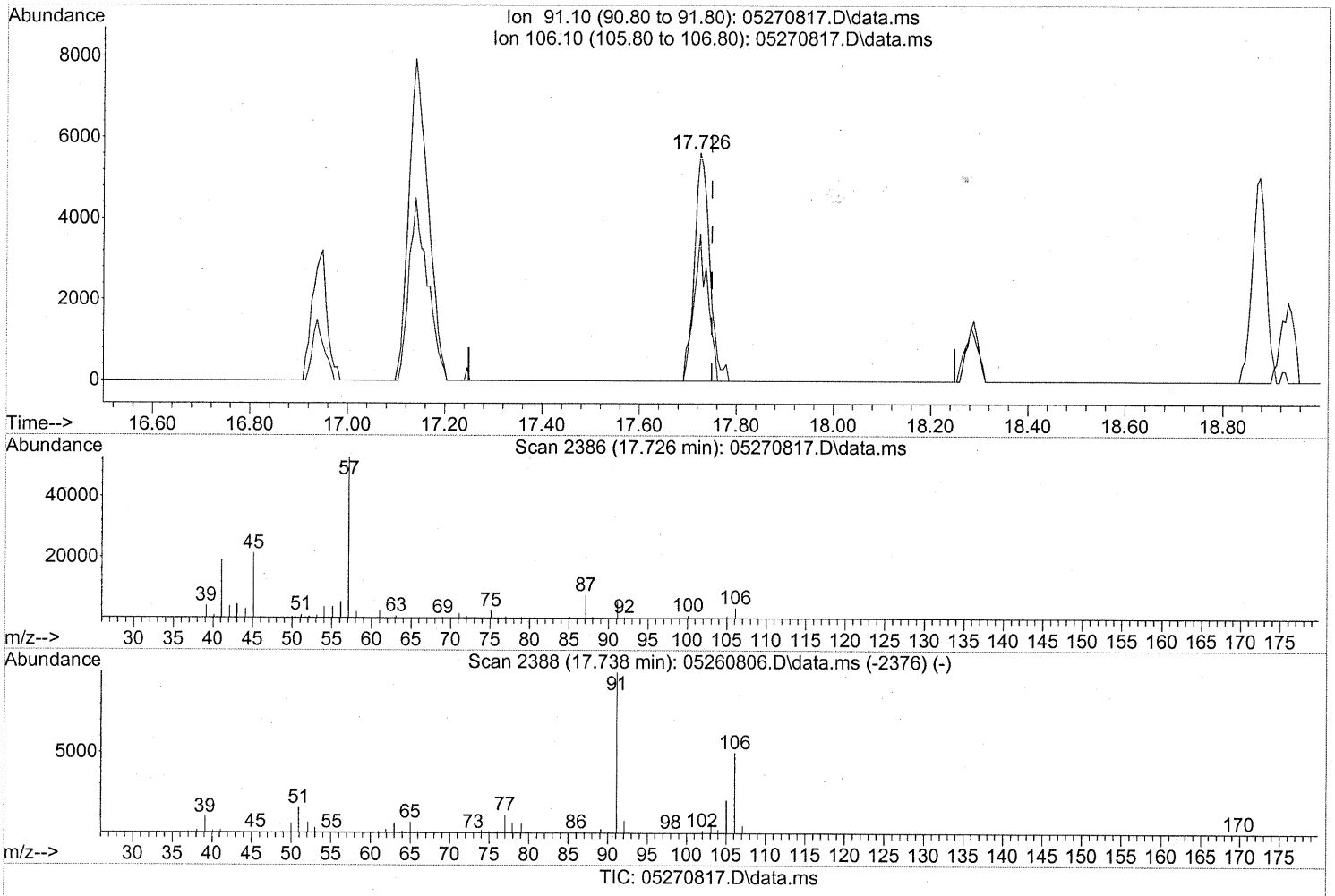
blown up spectra



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.20ng

response 12231

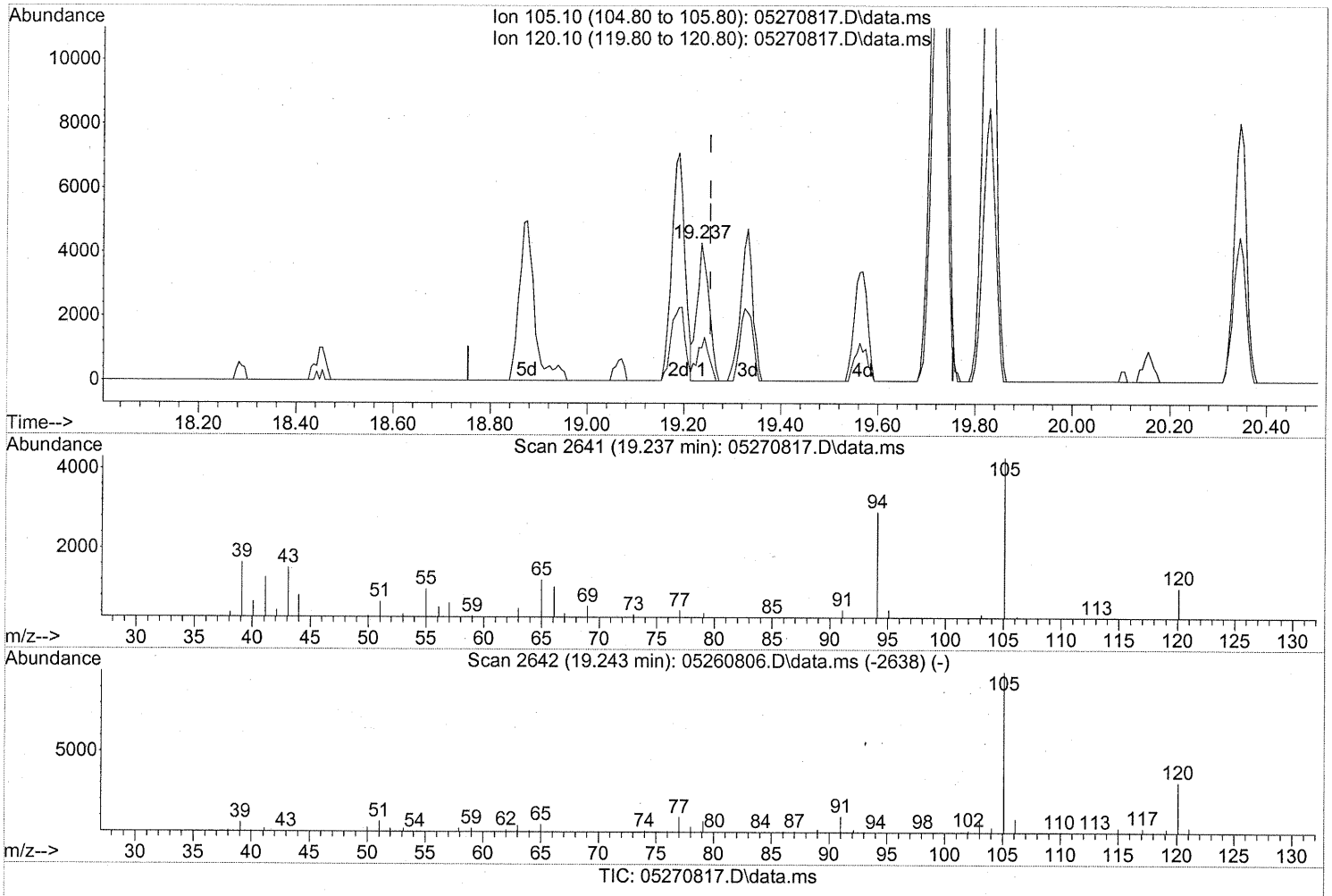
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	58.39
0.00	0.00	0.00
0.00	0.00	0.00

451

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(78) 4-Ethyltoluene (T)

19.237min (-0.018) 0.08ng

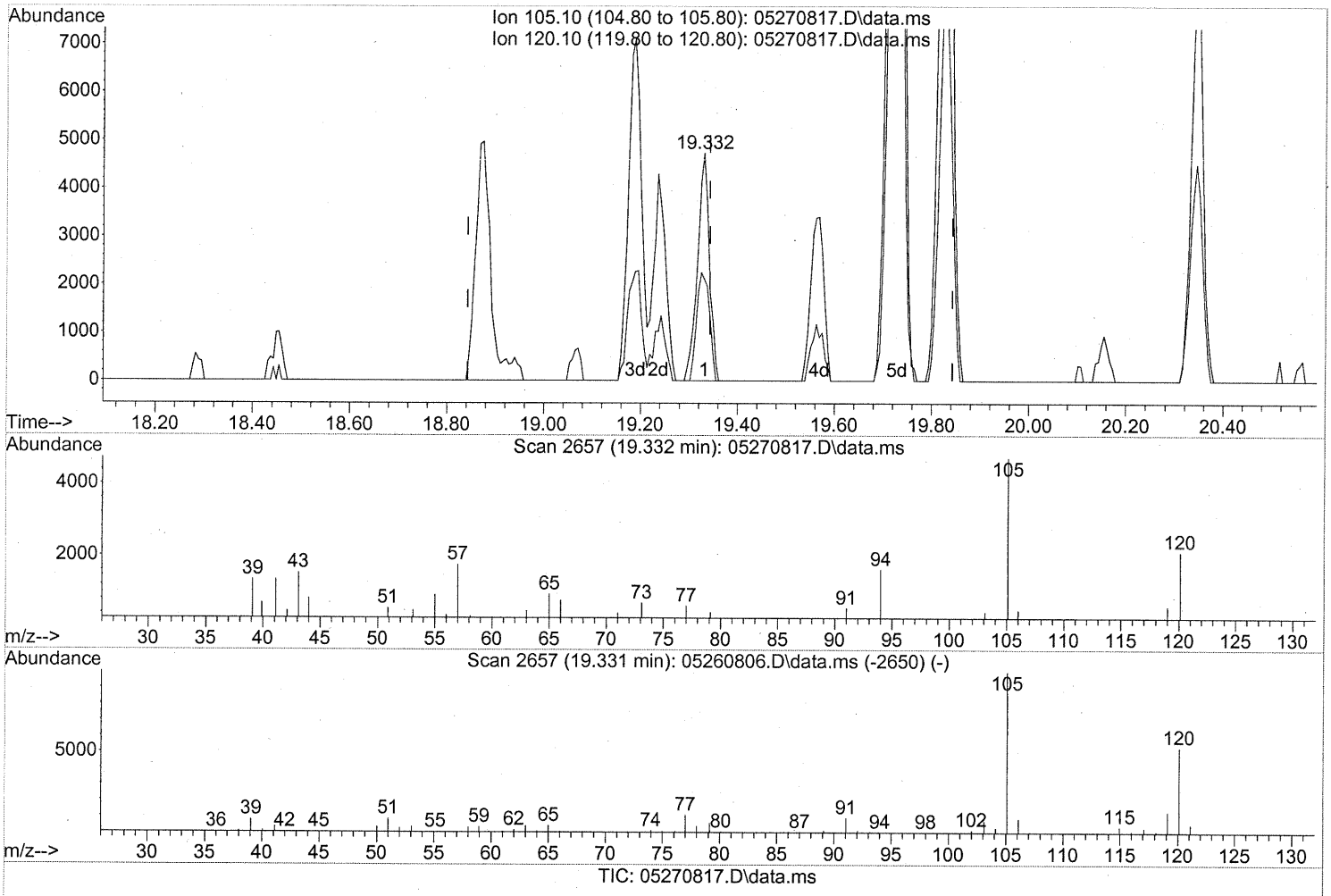
response 7301

Ion	Exp%	Act%
105.10	100	100
120.10	28.60	30.22
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

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

19.332min (-0.012) 0.10ng

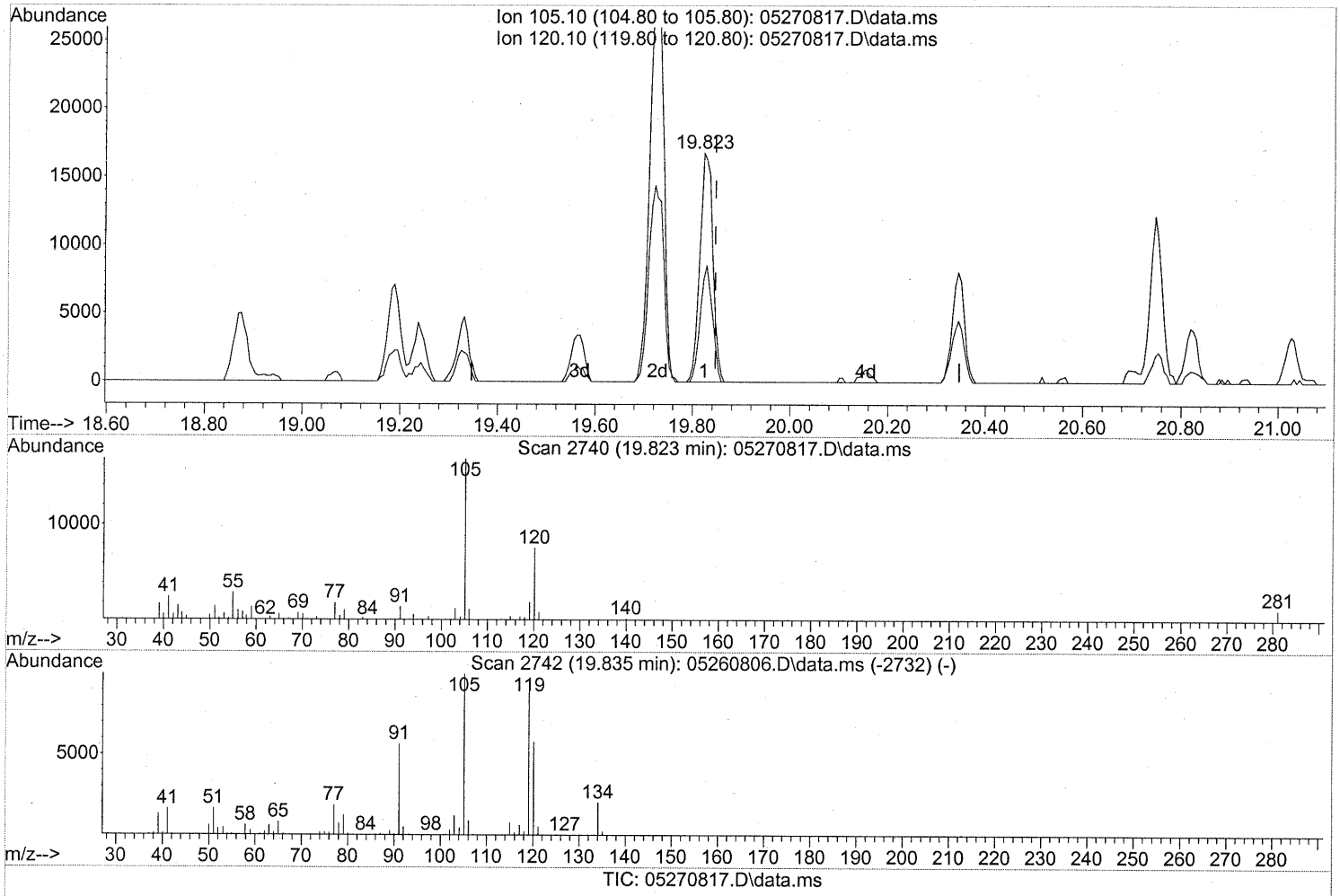
response 8012

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	50.47
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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

19.823min (-0.024) 0.39ng

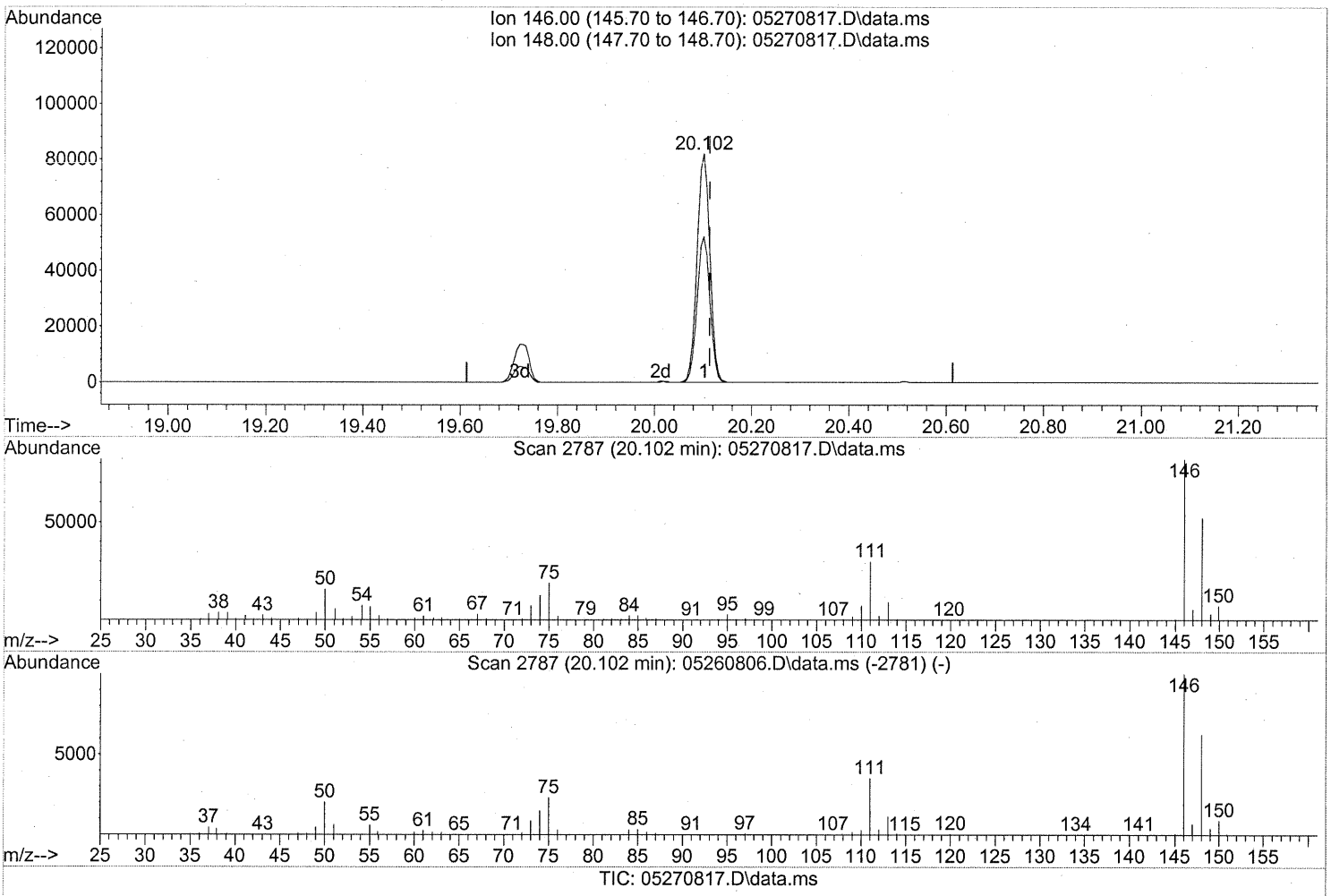
response 31081

Ion	Exp%	Act%
105.10	100	100
120.10	51.70	47.63
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 3.00ng

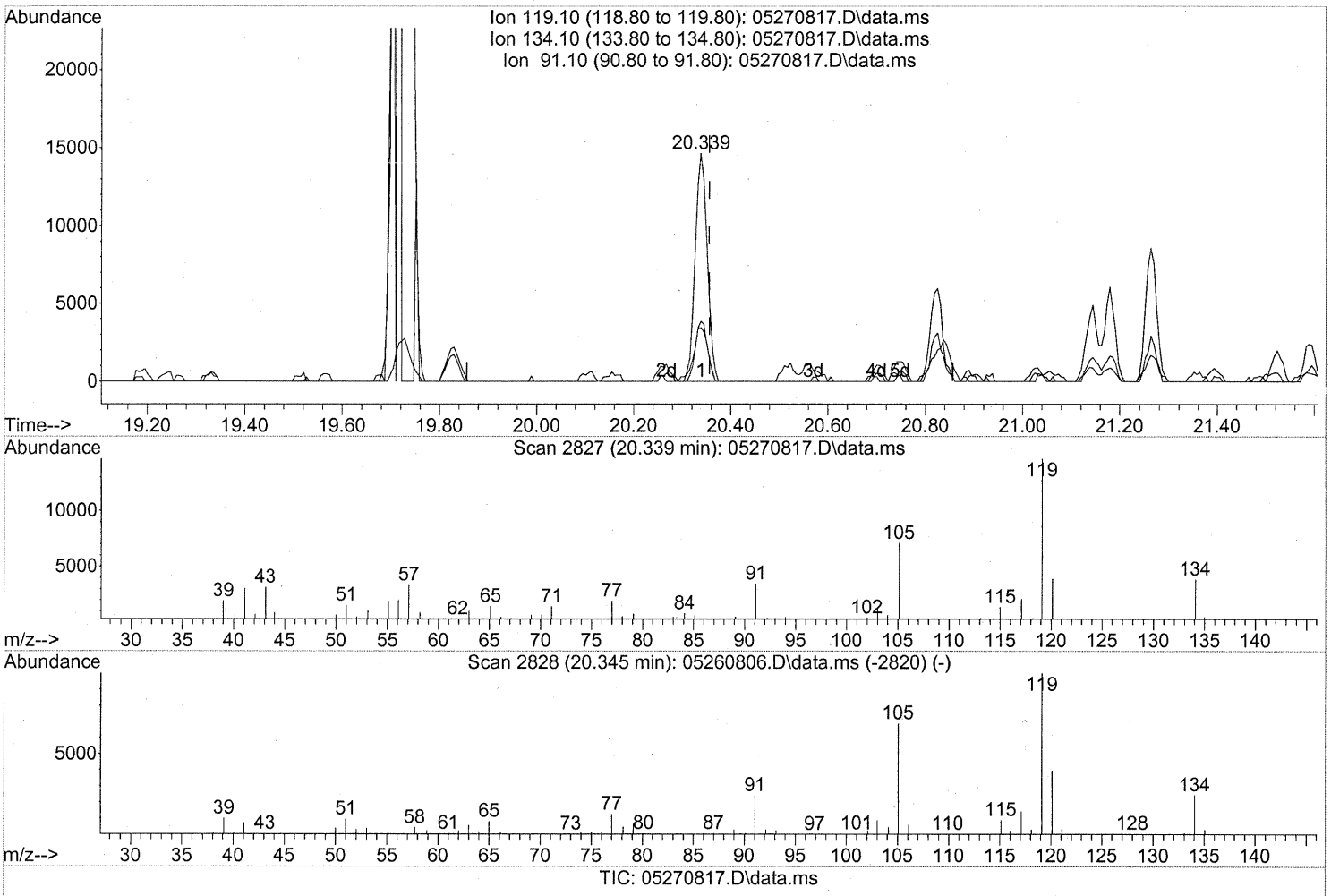
response 148262

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.93
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(88) p-Isopropyltoluene (T)

20.339min (-0.018) 0.28ng

response 25323

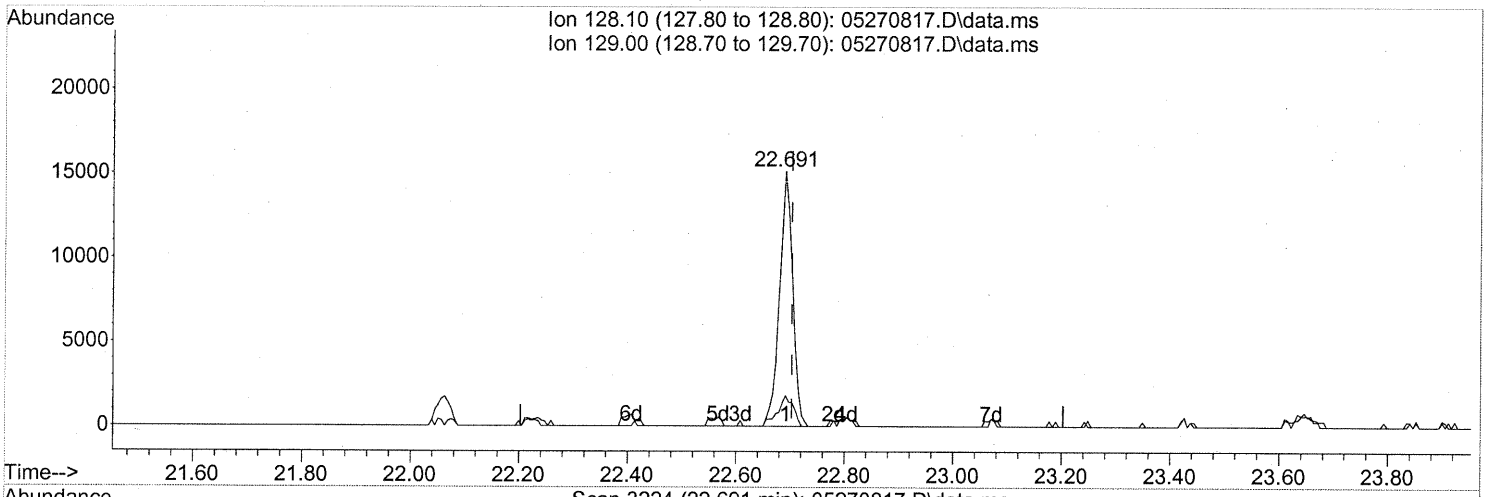
Ion	Exp%	Act%
119.10	100	100
134.10	23.00	26.04
91.10	30.60	27.49
0.00	0.00	0.00

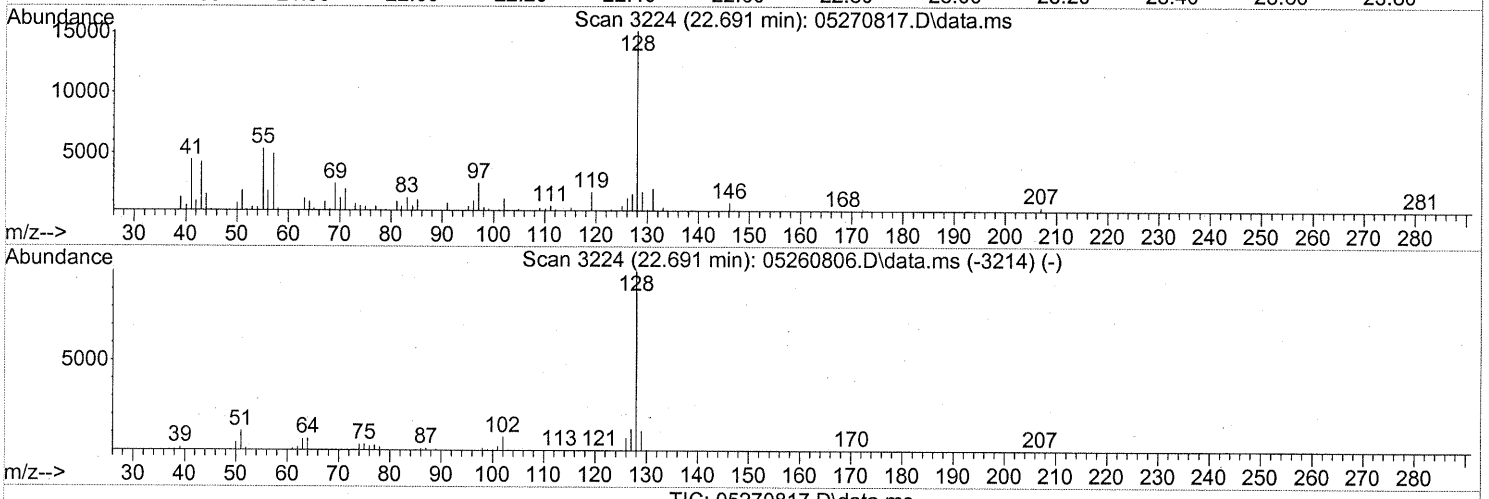
456

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration





TIC: 05270817.D\data.ms

(95) Naphthalene (T)

22.691min (-0.012) 0.22ng

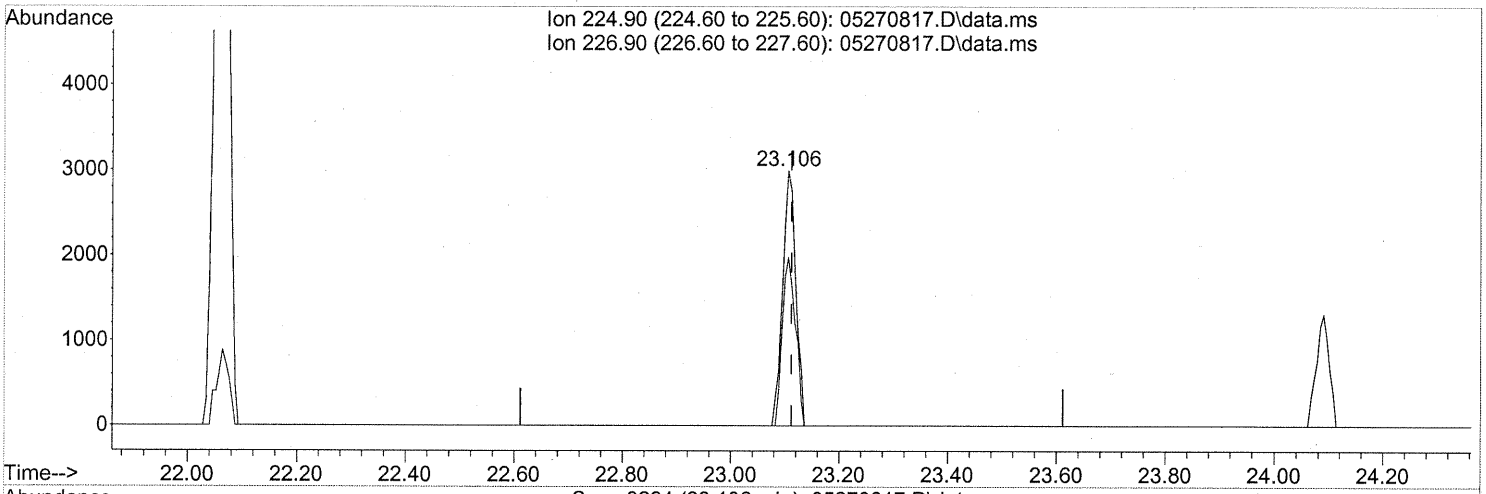
response 25227

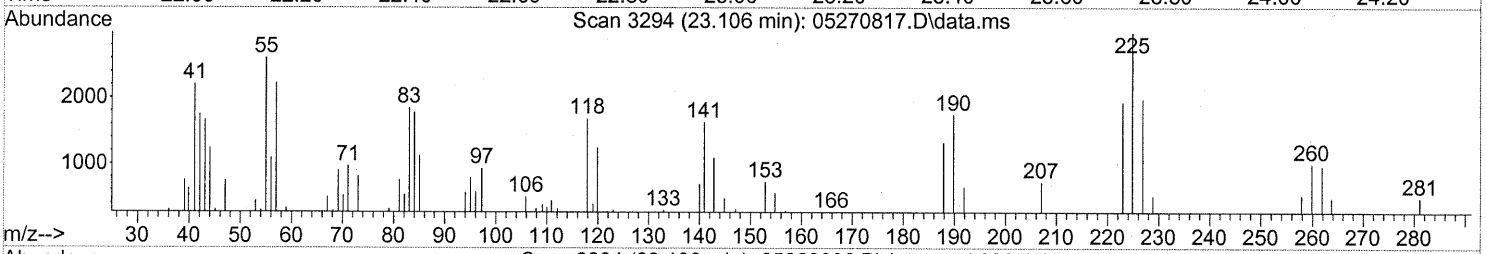
Ion	Exp%	Act%
128.10	100	100
129.00	10.40	14.15
0.00	0.00	0.00
0.00	0.00	0.00

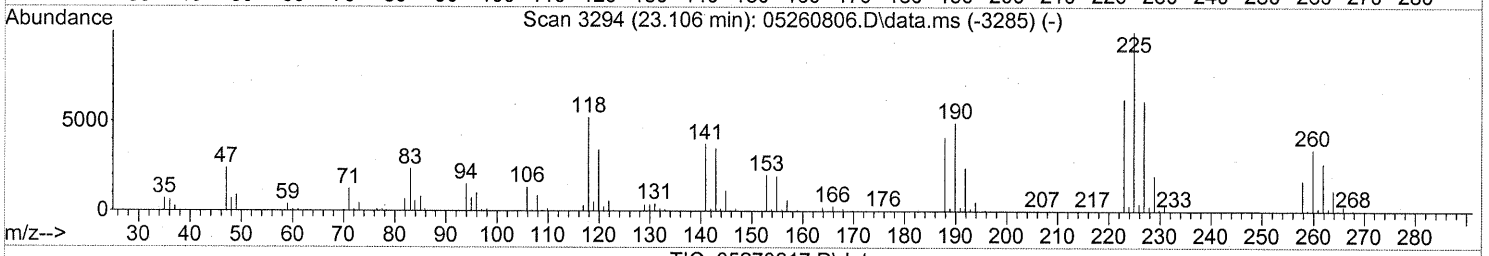
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 04:47:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270817.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

23.106min (-0.006) 0.36ng

response 4997

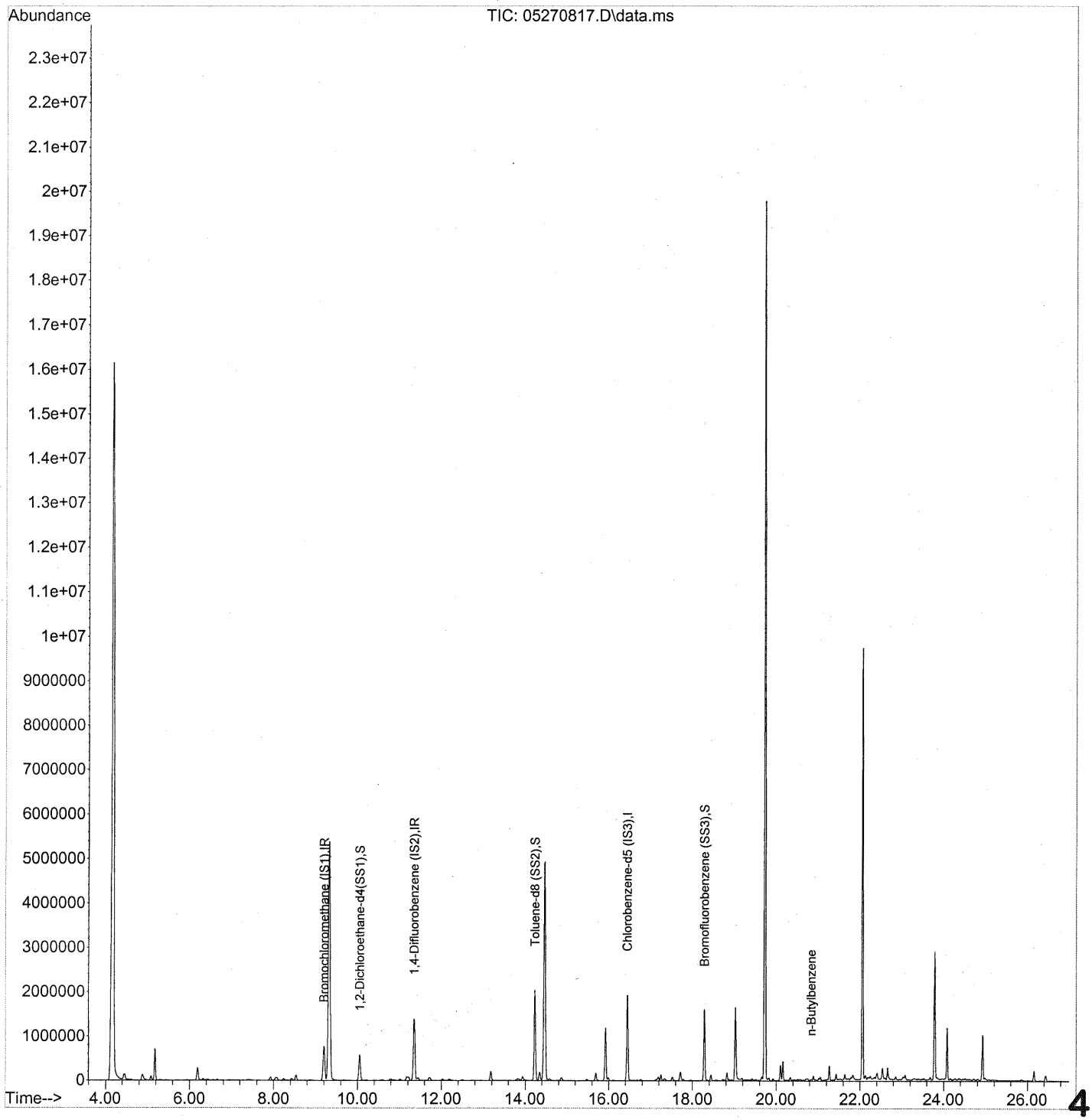
Ion	Exp%	Act%
224.90	100	100
226.90	63.00	66.20
0.00	0.00	0.00
0.00	0.00	0.00

458

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 14:39:31 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



459

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 14:39:31 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	380792	25.000	ng	-0.04
3) 1,4-Difluorobenzene (IS2)	11.35	114	1597367	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	659426	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	542471	24.914	ng	-0.04
Spiked Amount 25.000			Recovery =	99.64%		
5) Toluene-d8 (SS2)	14.23	98	1625685	23.913	ng	-0.02
Spiked Amount 25.000			Recovery =	95.64%		
6) Bromofluorobenzene (SS3)	18.29	174	577227	25.537	ng	0.00
Spiked Amount 25.000			Recovery =	102.16%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	4011	N.D.		
8) n-Butylbenzene	20.84	91	6519	0.083	ng #	44

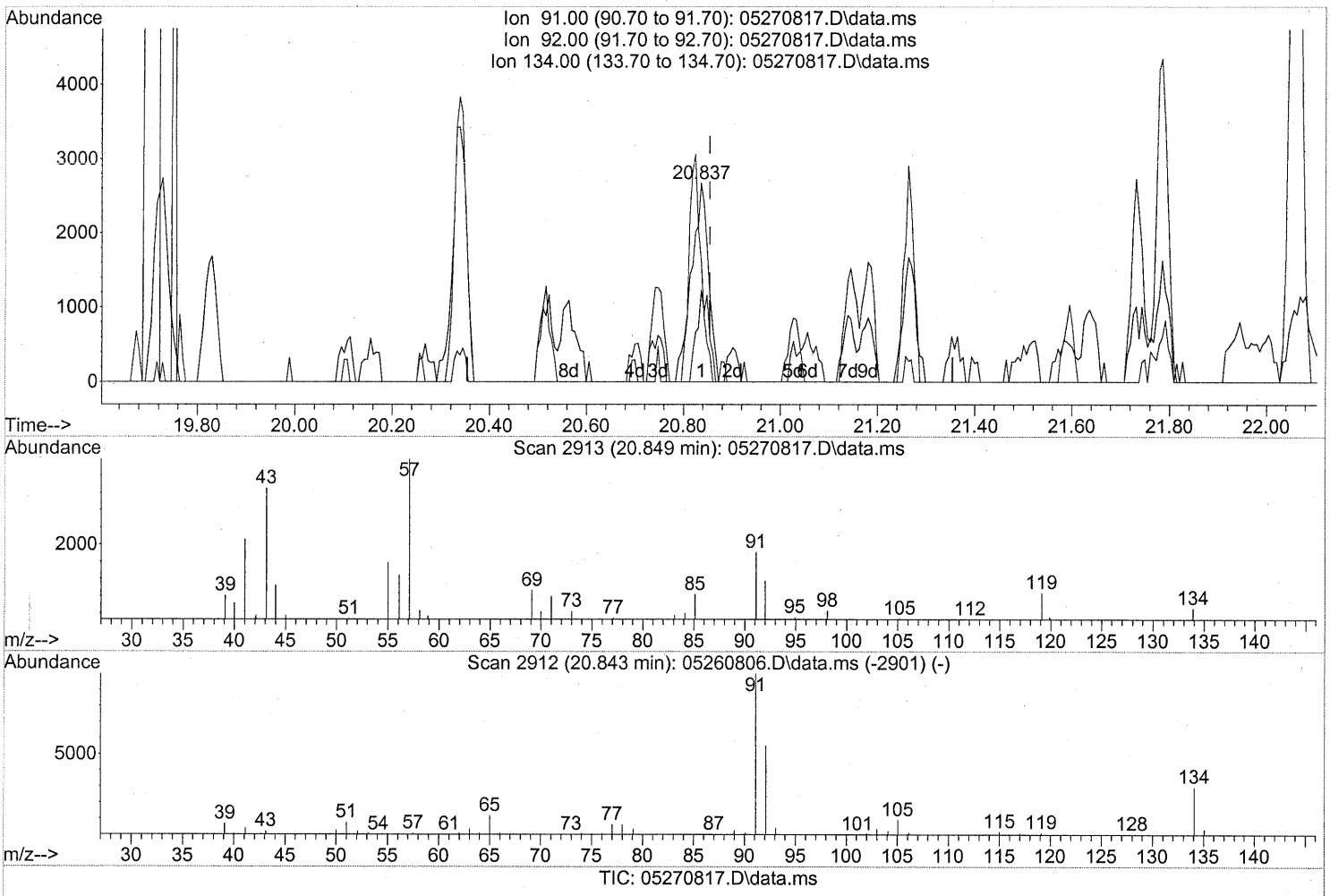
(#) = qualifier out of range (m) = manual integration (+) = signals summed

460

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270817.D
Acq On : 27 May 2008 22:57
Operator : WA
Sample : P0801507-012 (250ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 04 14:39:31 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



TIC: 05270817.D\data.ms

(8) n-Butylbenzene

20.837min (-0.018) 0.08ng

response 6519

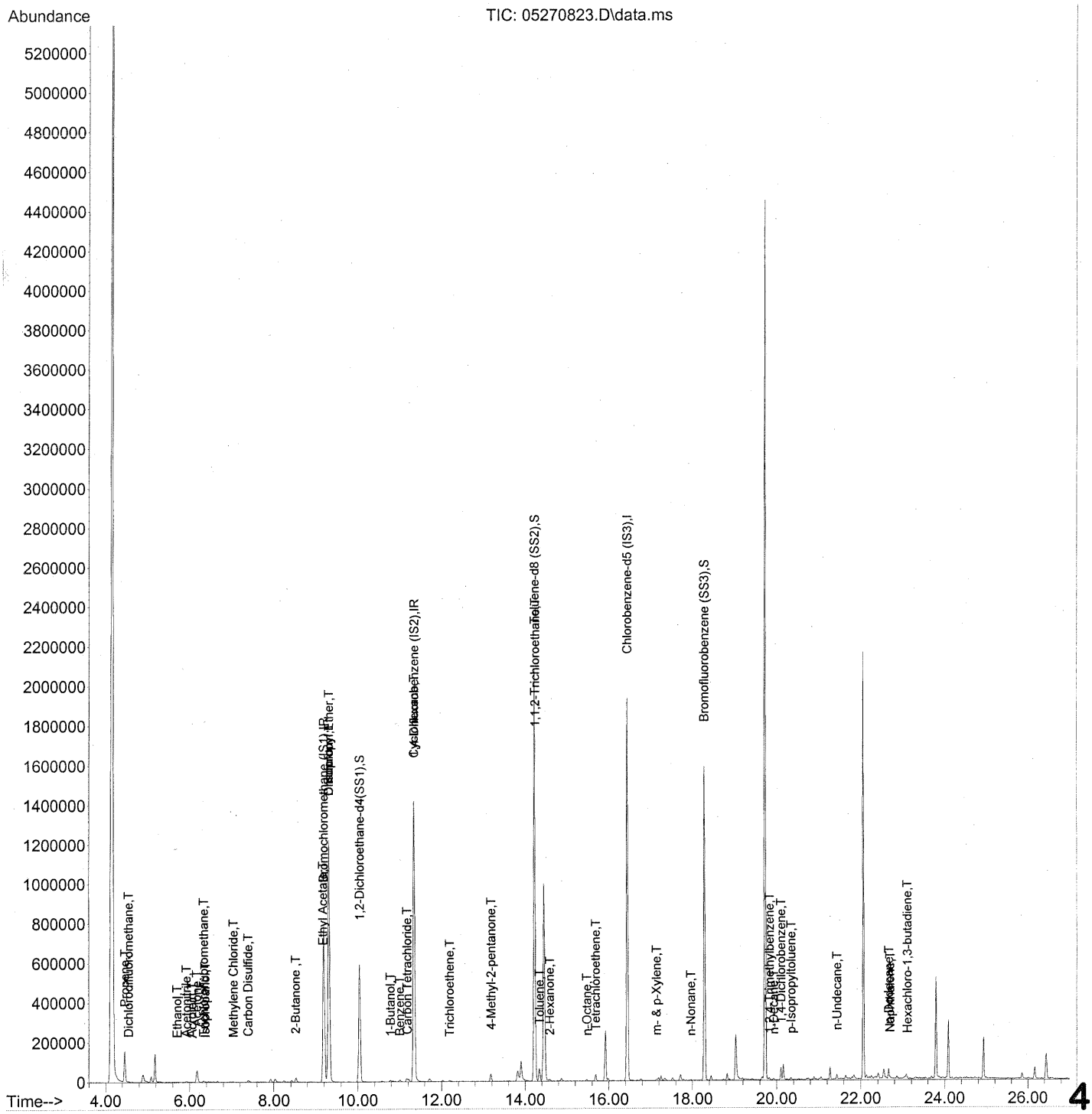
Ion	Exp%	Act%
91.00	100	100
92.00	53.60	32.86#
134.00	23.40	81.42#
0.00	0.00	0.00

S16052608.M Wed Jun 04 14:59:28 2008

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 5:10 am
Operator : WA
Sample : P0801507-012 Dil (50ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 06:51:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 5:10 am
Operator : WA
Sample : P0801507-012 Dil (50ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 06:51:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	403942	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1653911	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	667568	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	557760	24.148	ng		-0.05
Spiked Amount 25.000			Recovery =	96.60%			
57) Toluene-d8 (SS2)	14.22	98	1684592	24.477	ng		-0.02
Spiked Amount 25.000			Recovery =	97.92%			
73) Bromofluorobenzene (SS3)	18.28	174	585981	25.608	ng		-0.01
Spiked Amount 25.000			Recovery =	102.44%			
Target Compounds							Qvalue
2) Propene	4.46	42	10128	0.324	ng	#	87
3) Dichlorodifluoromethane	4.55	85	2648	0.070	ng	#	91
4) Chloromethane	4.75	50	733	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.13	54	1243	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	5.70	45	2192	0.103	ng		81
11) Acetonitrile	5.92	41	7820	0.128	ng	#	47
12) Acrolein	6.06	56	2004	0.131	ng		99
13) Acetone	6.17	58	35334	1.674	ng	#	68
14) Trichlorofluoromethane	6.33	101	7313	0.207	ng		97
15) Isopropanol	6.37	45	7319	0.115	ng		87
16) Acrylonitrile	6.61	53	282	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.99	59	118	N.D.			
19) Methylene Chloride	7.04	84	963	0.059	ng	#	14
20) Allyl Chloride	7.14	41	118	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.39	76	12870	0.197	ng		95
23) trans-1,2-Dichloroethene	8.01	61	96	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	8.52	72	5845	0.530	ng	#	1
28) cis-1,2-Dichloroethene	9.17	61	913	N.D.			
29) Diisopropyl Ether	9.31	87	134821	9.275	ng	#	1
30) Ethyl Acetate	9.17	61	913	0.119	ng	#	58
31) n-Hexane	9.23	57	1633	N.D.			

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 5:10 am
Operator : WA
Sample : P0801507-012 Dil (50ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 06:51:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	1251340	52.496	ng		96
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	10.77	56	9756	0.358	ng	#	46
41) Benzene	11.00	78	9249	0.133	ng		93
42) Carbon Tetrachloride	11.17	117	13860	0.485	ng		98
43) Cyclohexane	11.34	84	1632	0.060	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	12.13	83	212	N.D.			
47) Trichloroethene	12.19	130	2924	0.135	ng		96
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	1025	N.D.			
50) Methyl Methacrylate	0.00	100	0	N.D.			
51) n-Heptane	12.50	71	266	N.D.			
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.			
53) 4-Methyl-2-pentanone	13.18	58	13989	0.577	ng		83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	142528	8.404	ng	#	7
58) Toluene	14.34	91	54255	0.695	ng		95
59) 2-Hexanone	14.58	43	7474	0.101	ng		85
60) Dibromochloromethane	14.83	129	246	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.31	43	1110	N.D.			
63) n-Octane	15.47	57	1292	0.055	ng		84
64) Tetrachloroethene	15.69	166	12987	0.562	ng		99
65) Chlorobenzene	16.49	112	123	N.D.			
66) Ethylbenzene	16.94	91	1778	N.D.			
67) m- & p-Xylene	17.14	91	5557	0.095	ng		93
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	1105	N.D.			
70) o-Xylene	17.73	91	2783	N.D.			
71) n-Nonane	17.96	43	3174	0.051	ng	#	63
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.44	105	470	N.D.			
75) alpha-Pinene	18.93	93	1507	N.D.			
76) n-Propylbenzene	19.06	91	1123	N.D.			
77) 3-Ethyltoluene	19.18	105	2746	N.D.			
78) 4-Ethyltoluene	19.23	105	1860	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	1755	N.D.			

DH 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 5:10 am
Operator : WA
Sample : P0801507-012 Dil (50ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 06:51:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

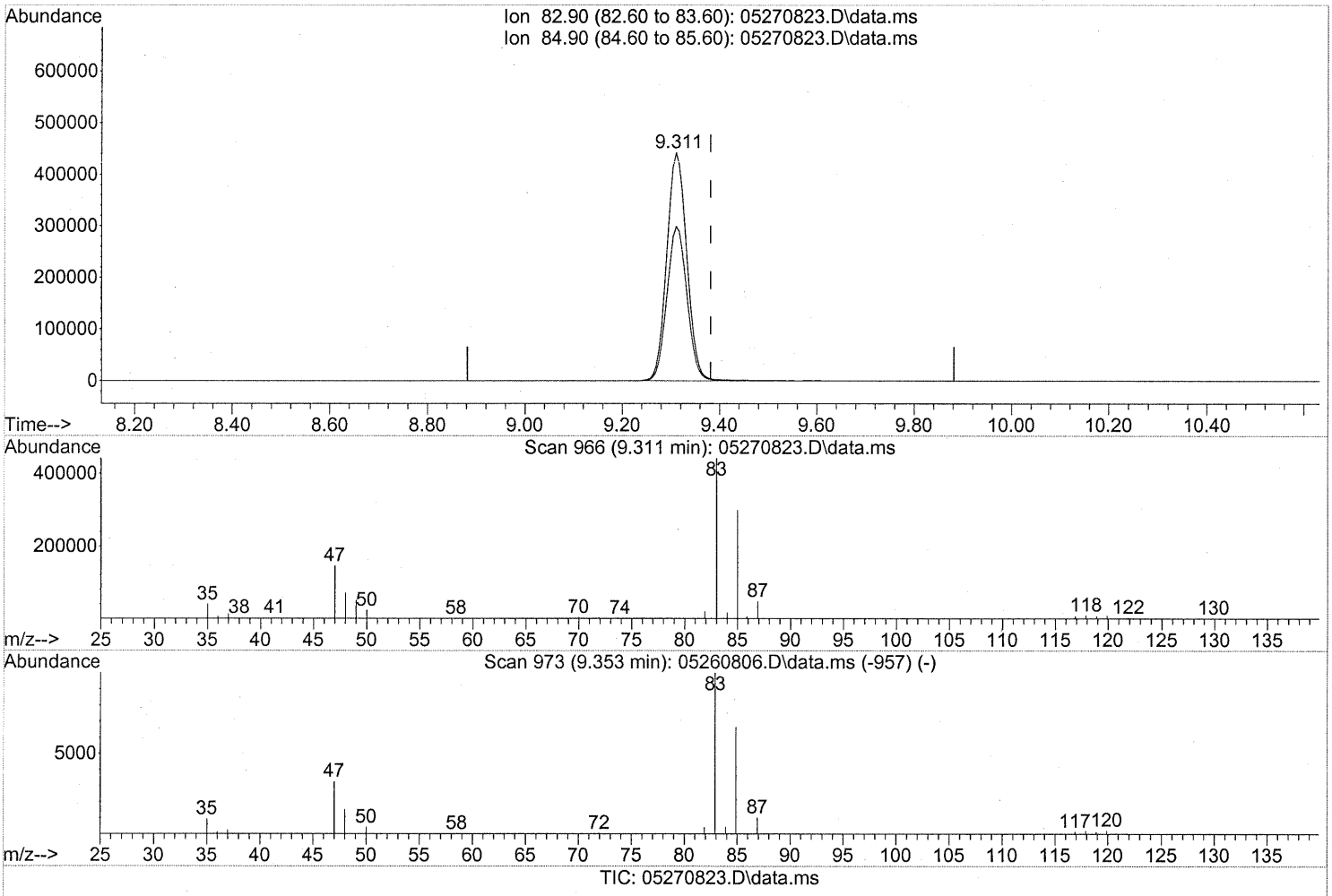
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	374	N.D.			
81) 2-Ethyltoluene	19.56	105	1721	N.D.			
82) 1,2,4-Trimethylbenzene	19.83	105	6361	0.078	ng		100
83) n-Decane	19.92	57	4080	0.071	ng	#	67
84) Benzyl Chloride	19.83	91	603	N.D.			
85) 1,3-Dichlorobenzene	20.02	146	211	N.D.			
86) 1,4-Dichlorobenzene	20.10	146	30045	0.600	ng		98
87) sec-Butylbenzene	20.16	105	221	N.D.			
88) p-Isopropyltoluene	20.34	119	5079	0.055	ng		96
89) 1,2,3-Trimethylbenzene	20.35	105	3222	N.D.			
90) 1,2-Dichlorobenzene	20.51	146	96	N.D.			
91) d-Limonene	20.51	68	1201	N.D.			
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.			
93) n-Undecane	21.43	57	10046	0.166	ng		97
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.			
95) Naphthalene	22.69	128	6605	0.056	ng		98
96) n-Dodecane	22.66	57	19496	0.331	ng		83
97) Hexachloro-1,3-butadiene	23.10	225	1002	0.070	ng		81

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270823.D
Acq On : 28 May 2008 5:10
Operator : WA
Sample : P0801507-012 Dil (50ml)
Misc : ENSR SG13B-05 (-3.3, 3.6)
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 28 06:51:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270823.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 52.50ng

response 1251340

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	67.78
0.00	0.00	0.00
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: ENSR
Client Sample ID: SG15B-05
Client Project ID: Soil Gas Sampling / 04020-023-4311

CAS Project ID: P0801507
CAS Sample ID: P0801507-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00817

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.9**	1.6	0.16	**0.58**	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	0.084	0.042	
75-00-3	Chloroethane	ND	0.33	0.16	ND	0.12	0.062	
64-17-5	**Ethanol**	**11**	16	0.16	**5.8**	8.7	0.087	**J, B**
67-64-1	**Acetone**	**78**	16	0.24	**33**	6.9	0.10	**B**
75-69-4	**Trichlorofluoromethane**	**3.3**	0.33	0.16	**0.59**	0.058	0.029	
107-13-1	Acrylonitrile	ND	1.6	0.23	ND	0.75	0.11	
75-35-4	1,1-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**1.4**	1.6	0.24	**0.46**	0.54	0.080	**J**
75-09-2	**Methylene Chloride**	**0.42**	1.6	0.16	**0.12**	0.47	0.047	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.33	0.16	ND	0.10	0.052	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.33	0.18	**0.068**	0.043	0.024	
75-15-0	**Carbon Disulfide**	**7.6**	1.6	0.39	**2.4**	0.52	0.13	
156-60-5	trans-1,2-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
75-34-3	1,1-Dichloroethane	ND	0.33	0.16	ND	0.081	0.040	
1634-04-4	Methyl tert-Butyl Ether	ND	0.33	0.16	ND	0.090	0.045	
108-05-4	**Vinyl Acetate**	**6.9**	16	0.52	**2.0**	4.6	0.15	**J, B**
78-93-3	**2-Butanone (MEK)**	**22**	1.6	0.16	**7.6**	0.55	0.055	**B**
156-59-2	cis-1,2-Dichloroethene	ND	0.33	0.16	ND	0.082	0.041	
108-20-3	Diisopropyl Ether	ND	1.6	0.19	ND	0.39	0.046	
67-66-3	**Chloroform**	**1,200**	0.33	0.19	**240**	0.067	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG15B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-013

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00817

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.50 Liter(s)
0.050 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	0.040	
71-55-6	1,1,1-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
71-43-2	**Benzene**	**5.5**	0.33	0.16	**1.7**	0.10	0.051	**B**
56-23-5	**Carbon Tetrachloride**	**7.2**	0.33	0.16	**1.2**	0.052	0.026	
994-05-8	tert-Amyl Methyl Ether	ND	1.6	0.16	ND	0.39	0.039	
78-87-5	1,2-Dichloropropane	ND	0.33	0.16	ND	0.071	0.035	
75-27-4	Bromodichloromethane	ND	0.33	0.16	ND	0.049	0.024	
79-01-6	**Trichloroethene**	**1.1**	0.33	0.16	**0.20**	0.061	0.030	
123-91-1	1,4-Dioxane	ND	1.6	0.20	ND	0.45	0.055	
80-62-6	Methyl Methacrylate	ND	1.6	0.24	ND	0.40	0.060	
142-82-5	**n-Heptane**	**1.5**	1.6	0.21	**0.37**	0.40	0.051	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.17	ND	0.36	0.037	
108-10-1	**4-Methyl-2-pentanone**	**17**	1.6	0.18	**4.2**	0.40	0.045	
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.21	ND	0.36	0.045	
79-00-5	1,1,2-Trichloroethane	ND	0.33	0.16	ND	0.060	0.030	
108-88-3	**Toluene**	**7.8**	1.6	0.16	**2.1**	0.43	0.043	
591-78-6	**2-Hexanone**	**3.9**	1.6	0.25	**0.96**	0.40	0.061	
124-48-1	Dibromochloromethane	ND	0.33	0.22	ND	0.038	0.026	
106-93-4	1,2-Dibromoethane	ND	0.33	0.18	ND	0.042	0.023	
111-65-9	**n-Octane**	**2.7**	1.6	0.16	**0.57**	0.35	0.035	
127-18-4	**Tetrachloroethene**	**7.2**	0.33	0.16	**1.1**	0.048	0.024	
108-90-7	**Chlorobenzene**	**1.8**	0.33	0.17	**0.39**	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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG15B-05** CAS Sample ID: P0801507-013
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/27 - 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 0.50 Liter(s)
Test Notes: 0.050 Liter(s)
Container ID: SC00817

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.62**	1.6	0.20	**0.14**	0.38	0.047	**J**
179601-23-1	**m,p-Xylenes**	**2.8**	1.6	0.42	**0.65**	0.38	0.098	
75-25-2	Bromoform	ND	1.6	0.25	ND	0.16	0.024	
100-42-5	**Styrene**	**0.49**	1.6	0.25	**0.11**	0.38	0.058	**J**
95-47-6	**o-Xylene**	**1.5**	1.6	0.21	**0.34**	0.38	0.047	**J**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.33	0.21	ND	0.047	0.030	
98-82-8	Cumene	ND	1.6	0.18	ND	0.33	0.037	
103-65-1	**n-Propylbenzene**	**0.50**	1.6	0.17	**0.10**	0.33	0.034	**J**
622-96-8	**4-Ethyltoluene**	**0.78**	1.6	0.19	**0.16**	0.33	0.038	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.93**	1.6	0.20	**0.19**	0.33	0.040	**J**
98-83-9	**alpha-Methylstyrene**	**0.39**	1.6	0.24	**0.082**	0.34	0.049	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**3.5**	1.6	0.22	**0.72**	0.33	0.046	
100-44-7	Benzyl Chloride	ND	0.33	0.28	ND	0.063	0.054	
541-73-1	**1,3-Dichlorobenzene**	**0.77**	0.33	0.20	**0.13**	0.054	0.034	
106-46-7	**1,4-Dichlorobenzene**	**14**	0.33	0.18	**2.3**	0.054	0.030	
135-98-8	sec-Butylbenzene	ND	1.6	0.19	ND	0.30	0.034	
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**12**	1.6	0.21	**2.2**	0.30	0.039	
95-50-1	1,2-Dichlorobenzene	ND	0.33	0.22	ND	0.054	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	ND	0.33	0.25	ND	0.044	0.033	
91-20-3	**Naphthalene**	**1.7**	0.65	0.24	**0.33**	0.12	0.046	
87-68-3	**Hexachlorobutadiene**	**11**	0.33	0.29	**1.0**	0.031	0.028	
98-06-6	tert-Butylbenzene	ND	0.65	0.16	ND	0.12	0.030	
104-51-8	**n-Butylbenzene**	**1.1**	0.65	0.16	**0.21**	0.12	0.030	**M**

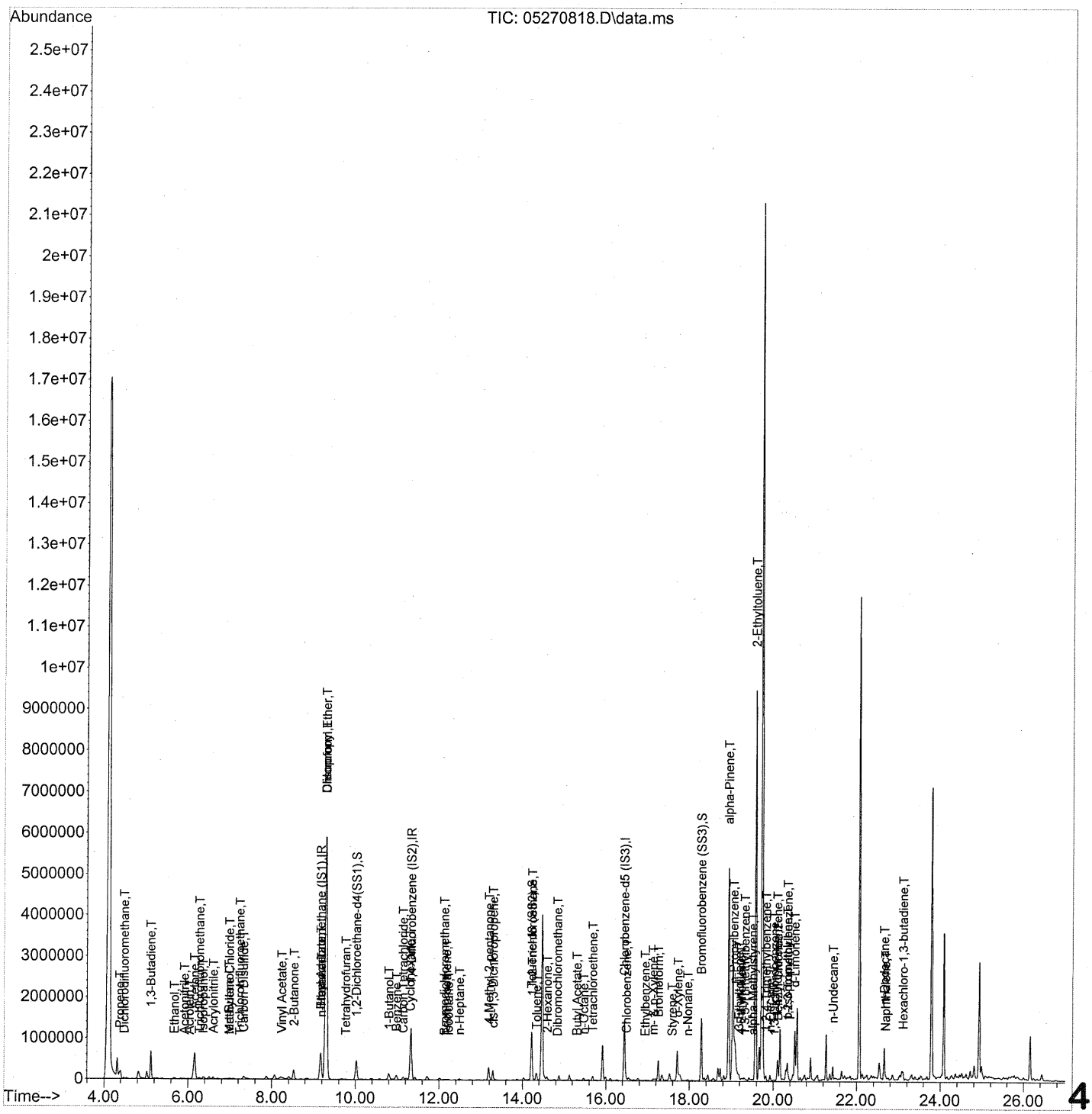
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.
M = Matrix interference due to coelution with a non-target compound; results may be biased high.

Verified By: _____ Date: 6/5/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 08:19:16 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 08:19:16 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.17	130	292426	25.000	ng		-0.08
37) 1,4-Difluorobenzene (IS2)	11.33	114	1419564	25.000	ng		-0.05
56) Chlorobenzene-d5 (IS3)	16.45	82	494463	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.02	65	461246	27.585	ng		-0.07
Spiked Amount 25.000			Recovery = 110.32%				✓
57) Toluene-d8 (SS2)	14.22	98	953570	18.706	ng		-0.03
Spiked Amount 25.000			Recovery = 74.84%				✓
73) Bromofluorobenzene (SS3)	18.28	174	539171	31.812	ng		-0.01
Spiked Amount 25.000			Recovery = 127.24%				✓
Target Compounds							Qvalue
2) Propene	4.37	42	74213	3.278	ng	#	78
3) Dichlorodifluoromethane	4.48	85	23953	0.875	ng		96
4) Chloromethane	4.68	50	1388	N.D.	✓		
5) Freon 114	4.79	135	545	N.D.	✓		
6) Vinyl Chloride	0.00	62	0	N.D.	✓		
7) 1,3-Butadiene	5.12	54	1200	0.060	ng	#	1
8) Bromomethane	5.36	94	209	N.D.	✓		
9) Chloroethane	5.54	64	128	N.D.	✓		
10) Ethanol	5.68	45	51104m	3.327	ng		
11) Acetonitrile	5.92	41	20263	0.458	ng		97
12) Acrolein	6.03	56	12480	1.127	ng		89
13) Acetone	6.16	58	367772	24.069	ng	#	83
14) Trichlorofluoromethane	6.27	101	26193	1.022	ng		99
15) Isopropanol	6.36	45	63022	1.369	ng		93
16) Acrylonitrile	6.61	53	2215	0.080	ng	NR	87
17) 1,1-Dichloroethene	0.00	96	0	N.D.	✓		
18) tert-Butanol	6.98	59	18505m	0.431	ng		
19) Methylene Chloride	6.99	84	1517	0.129	ng	#	18
20) Allyl Chloride	7.15	41	228	N.D.	✓		
21) Trichlorotrifluoroethane	7.24	151	1984	0.159	ng		97
22) Carbon Disulfide	7.33	76	109842	2.317	ng		100
23) trans-1,2-Dichloroethene	7.88	61	661	N.D.	✓		
24) 1,1-Dichloroethane	8.14	63	565	N.D.	✓		
25) Methyl tert-Butyl Ether	8.19	73	1076	N.D.	✓		
26) Vinyl Acetate	8.23	86	5274m	2.107	ng		
27) 2-Butanone	8.52	72	54748	6.853	ng	#	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	✓		
29) Diisopropyl Ether	9.30	87	771805	73.347	ng	NR #	1
30) Ethyl Acetate	9.17	61	9029	1.620	ng		88
31) n-Hexane	9.19	57	15039	0.451	ng		92

SA 6/4/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 08:19:16 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.29	83	7184472	~~416.341 ng~~		97
34) Tetrahydrofuran	9.77	72	2025	0.270 ng	#	1
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	10.15	62	330	N.D. ✓		
38) 1,1,1-Trichloroethane	10.45	97	106	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.80	56	136915	5.860 ng	#	77
41) Benzene	10.98	78	101306	1.693 ng		99
42) Carbon Tetrachloride	11.14	117	54530	2.221 ng		99
43) Cyclohexane	11.31	84	8785	0.375 ng	#	3
44) tert-Amyl Methyl Ether	0.00	73	0	N.D. ✓		
45) 1,2-Dichloropropane	11.92	63	218	N.D. ✓		
46) Bromodichloromethane	12.13	83	1813	~~0.103 ng~~ NR	#	39
47) Trichloroethene	12.18	130	6178	0.332 ng		91
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	12.23	57	7557	0.079 ng	#	1
50) Methyl Methacrylate	12.33	100	108	N.D. ✓		
51) n-Heptane	12.49	71	6607	0.462 ng	#	57
52) cis-1,3-Dichloropropene	13.29	75	4274	~~0.192 ng~~ NR	#	1
53) 4-Methyl-2-pentanone	13.19	58	108714	5.224 ng		82
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	14.23	97	80872	~~5.555 ng~~ NR	#	9
58) Toluene	14.34	91	138035	2.387 ng		100
59) 2-Hexanone	14.59	43	66050	1.209 ng		95
60) Dibromochloromethane	14.84	129	867	~~0.051 ng~~	#	64
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.31	43	20532	0.374 ng		85
63) n-Octane	15.47	57	14379	0.822 ng		88
64) Tetrachloroethene	15.69	166	37982	2.221 ng		99
65) Chlorobenzene	16.49	112	22939	0.557 ng		79
66) Ethylbenzene	16.94	91	12574	0.191 ng		94
67) m- & p-Xylene	17.13	91	37800	0.868 ng		91
68) Bromoform	17.26	173	625	~~0.063 ng~~	#	29
69) Styrene	17.59	104	6260	0.149 ng		93
70) o-Xylene	17.73	91	21349	0.458 ng		85
71) n-Nonane	17.96	43	23868	0.519 ng		82
72) 1,1,2,2-Tetrachloroethane	17.71	83	634	N.D. ✓		
74) Cumene	18.45	105	2589	N.D. ✓		
75) alpha-Pinene	18.93	93	2405811	75.566 ng		93
76) n-Propylbenzene	19.06	91	12123	0.154 ng	#	90
77) 3-Ethyltoluene	19.18	105	26645	0.358 ng		94
78) 4-Ethyltoluene	19.24	105	16104	0.240 ng		95
79) 1,3,5-Trimethylbenzene	19.33	105	16963	0.285 ng		95

6/4/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 08:19:16 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	4053	0.121	ng		91
81) 2-Ethyltoluene	19.58	105	148883	2.063	ng		64
82) 1,2,4-Trimethylbenzene	19.83	105	65043	1.079	ng		97
83) n-Decane	19.92	57	46690	1.094	ng		87
84) Benzyl Chloride	20.11	91	49112	1.054	ng	NR #	57
85) 1,3-Dichlorobenzene	20.02	146	9059	0.237	ng		94
86) 1,4-Dichlorobenzene	20.10	146	160229	4.321	ng		99
87) sec-Butylbenzene	20.15	105	2449	N.D.	✓		
88) p-Isopropyltoluene	20.34	119	253093	3.704	ng		91
89) 1,2,3-Trimethylbenzene	20.34	105	41387	0.715	ng	#	36
90) 1,2-Dichlorobenzene	20.52	146	770	N.D.	✓		
91) d-Limonene	20.52	68	274429	14.772	ng		86
92) 1,2-Dibromo-3-Chloropr...	21.43	157	203	N.D.	✓		
93) n-Undecane	21.44	57	125829	2.811	ng		87
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	✓		
95) Naphthalene	22.69	128	46657	0.533	ng		89
96) n-Dodecane	22.66	57	285525	6.547	ng		75
97) Hexachloro-1,3-butadiene	23.11	225	34562	3.280	ng		99

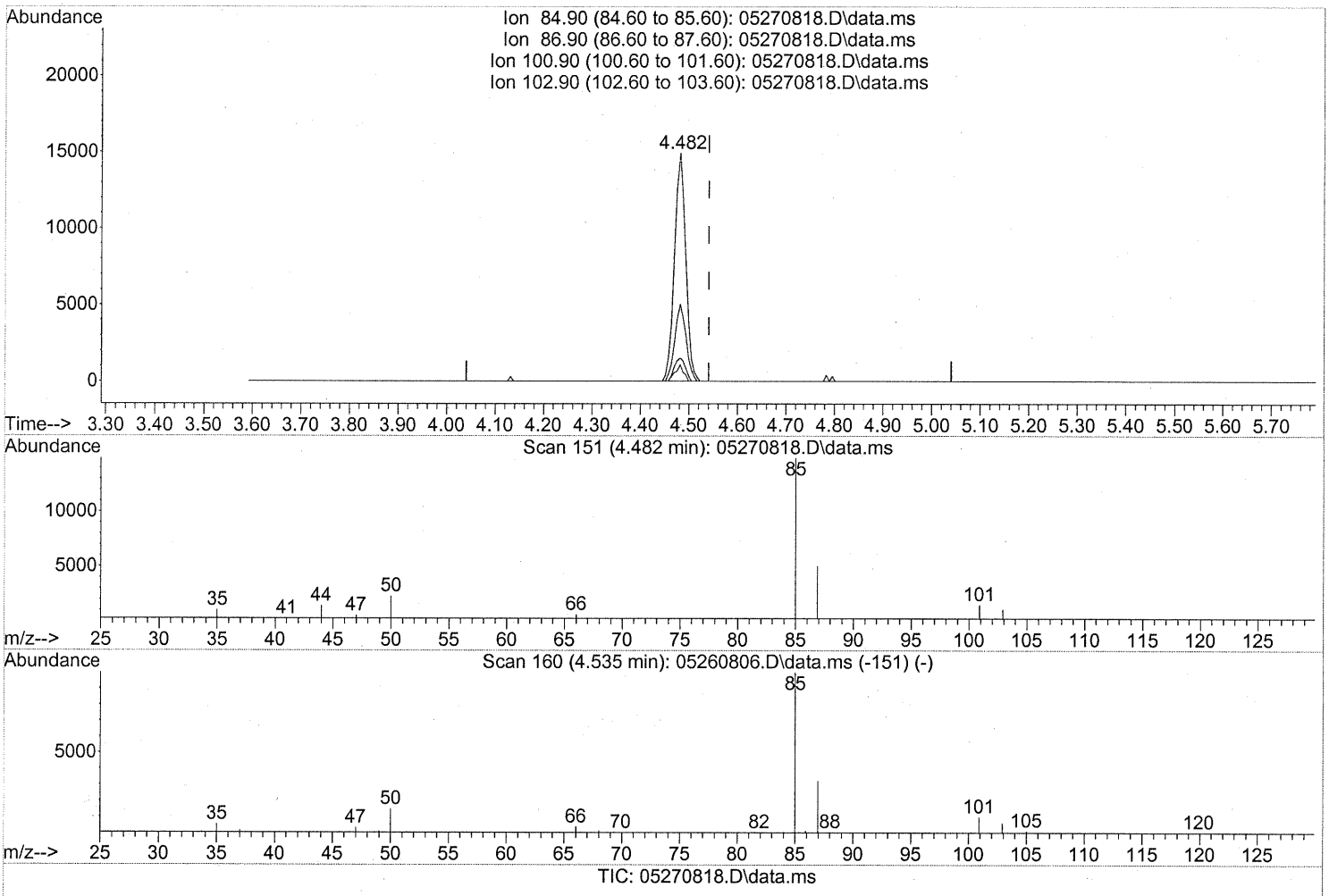
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(3) Dichlorodifluoromethane (T)

4.482min (-0.059) 0.87ng

response 23953

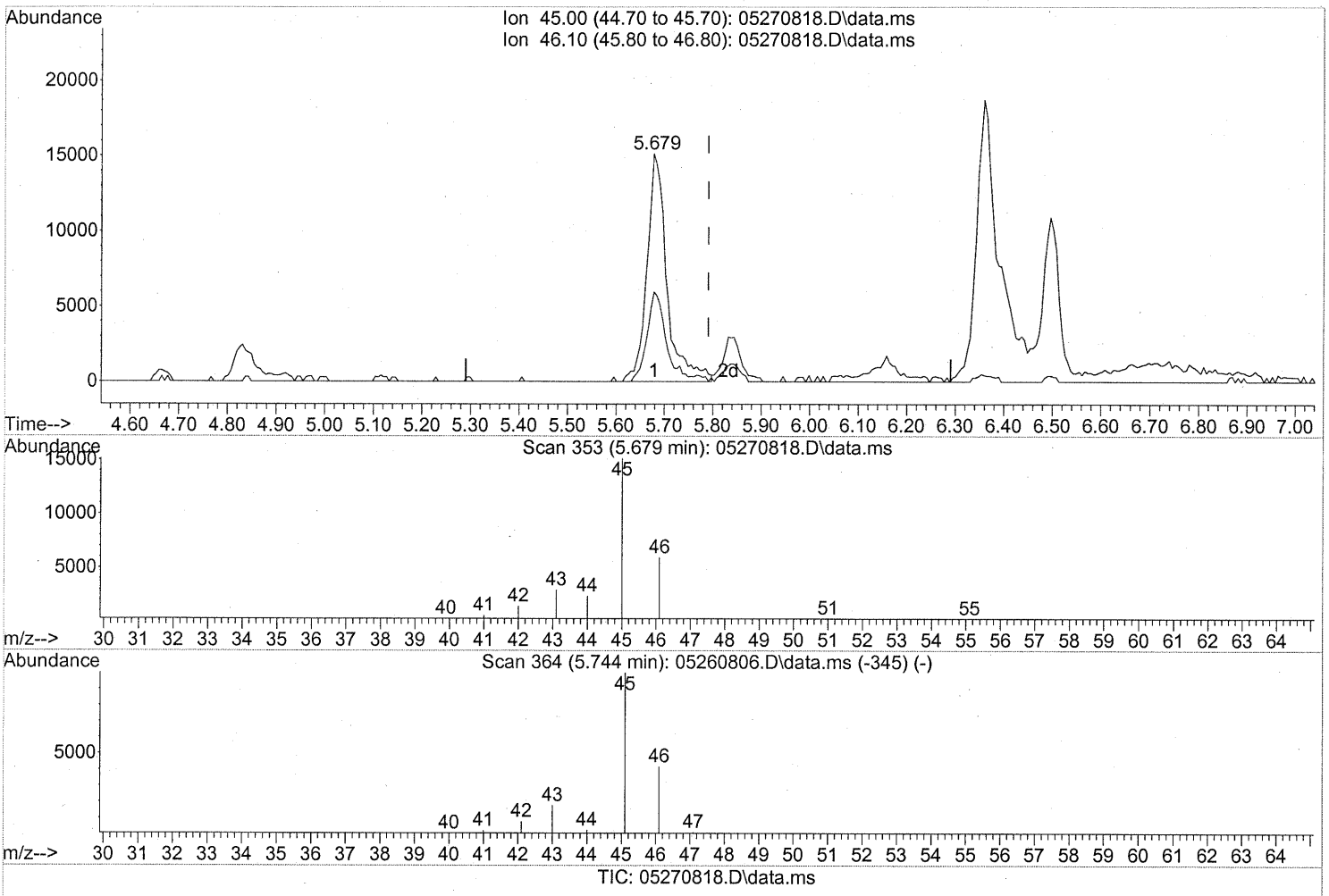
Ion	Exp%	Act%
84.90	100	100
86.90	31.50	33.70
100.90	8.40	9.76
102.90	5.50	5.22

474

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(10) Ethanol (T)

5.679min (-0.112) 2.83ng

response 43460

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.56
0.00	0.00	0.00
0.00	0.00	0.00

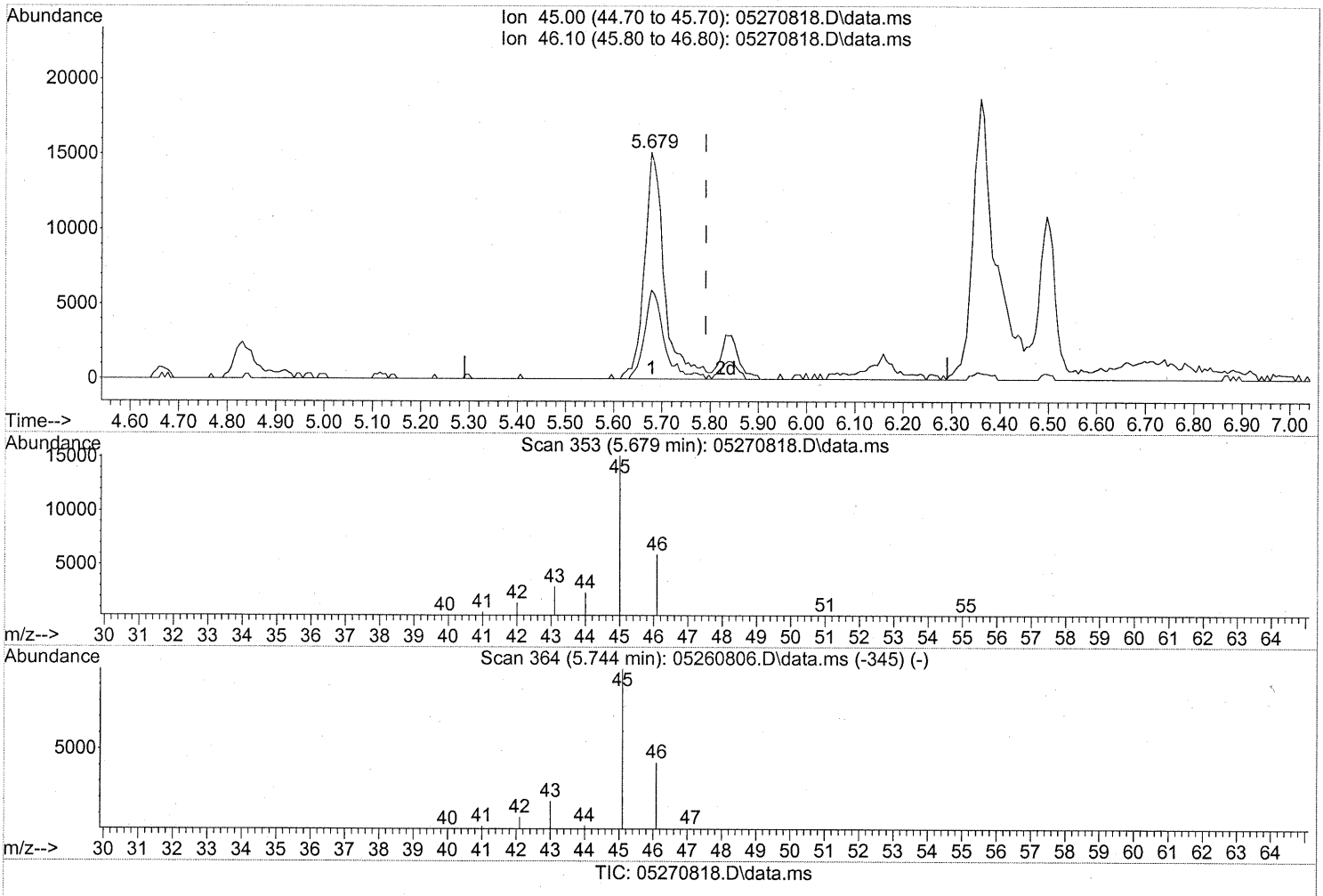
tailing

475

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(10) Ethanol (T)

5.679min (-0.112) 3.33ng m

response 51104

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	32.80
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing

6/4/08

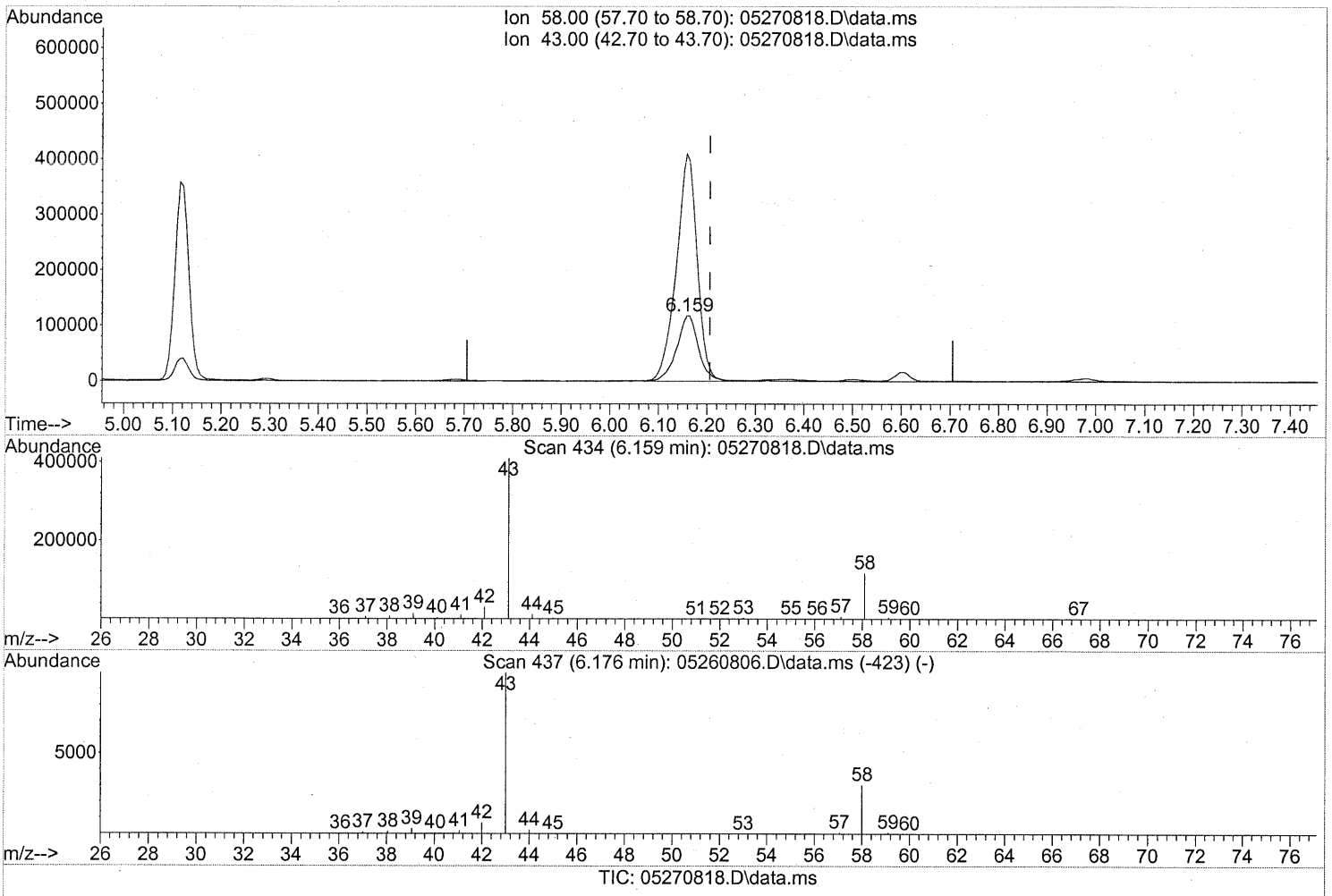
6/4/08

476

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(13) Acetone (T)

6.159min (-0.047) 24.07ng

response 367772

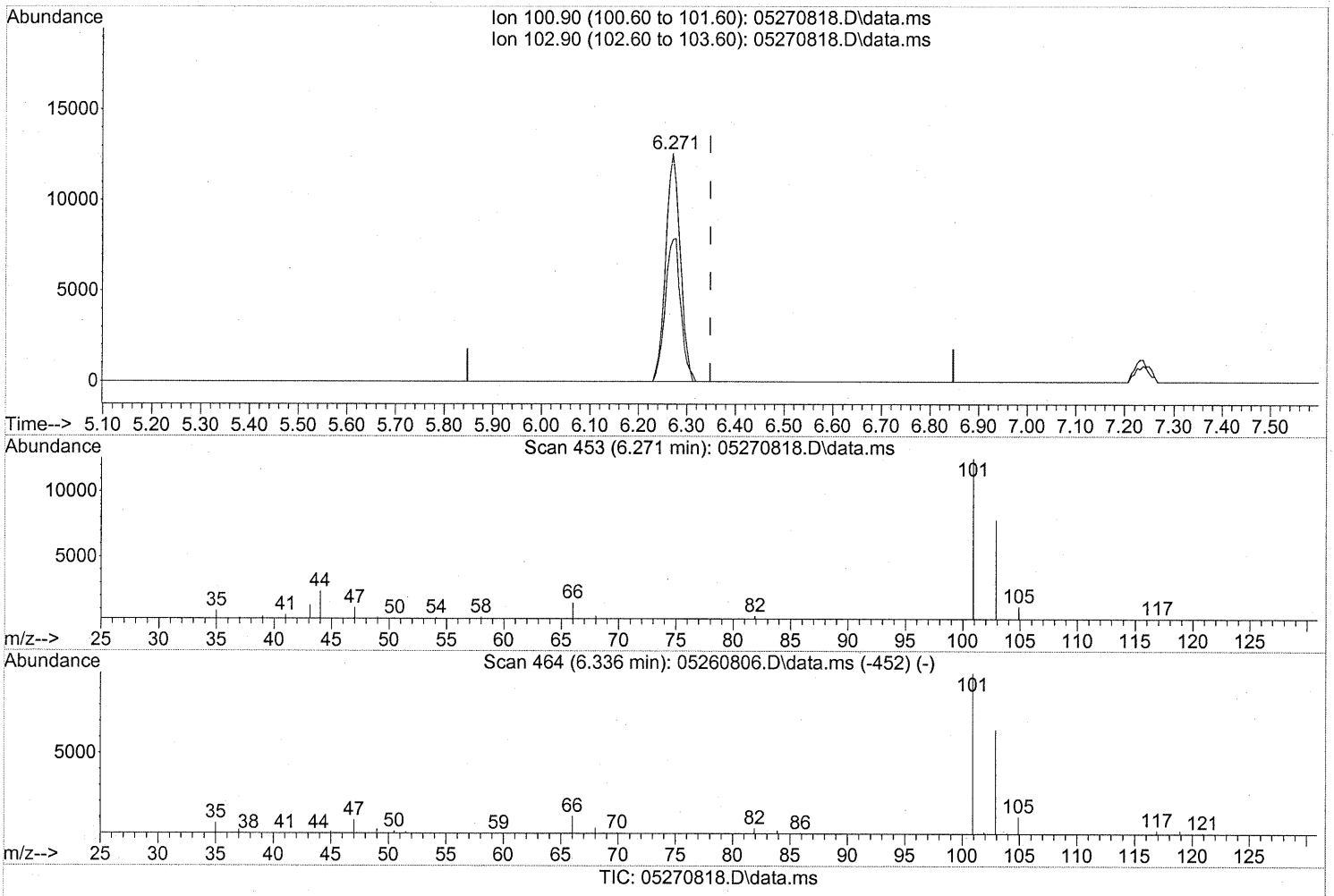
Ion	Exp%	Act%
58.00	100	100
43.00	368.40	331.24#
0.00	0.00	0.00
0.00	0.00	0.00

477

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

6.271min (-0.077) 1.02ng

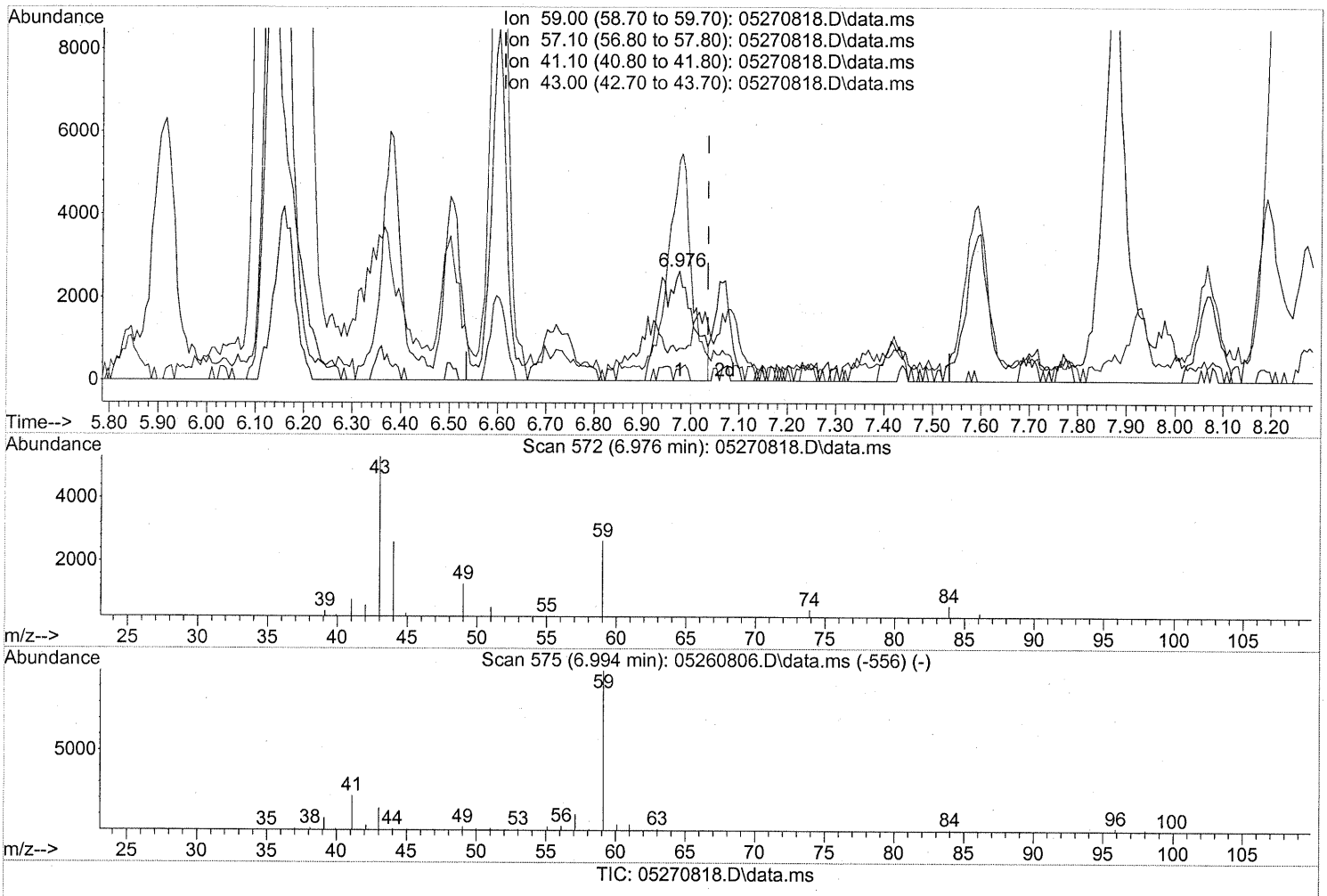
response 26193

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	65.84
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(18) tert-Butanol (T)

6.976min (-0.059) 0.30ng

response 12869

split peaks

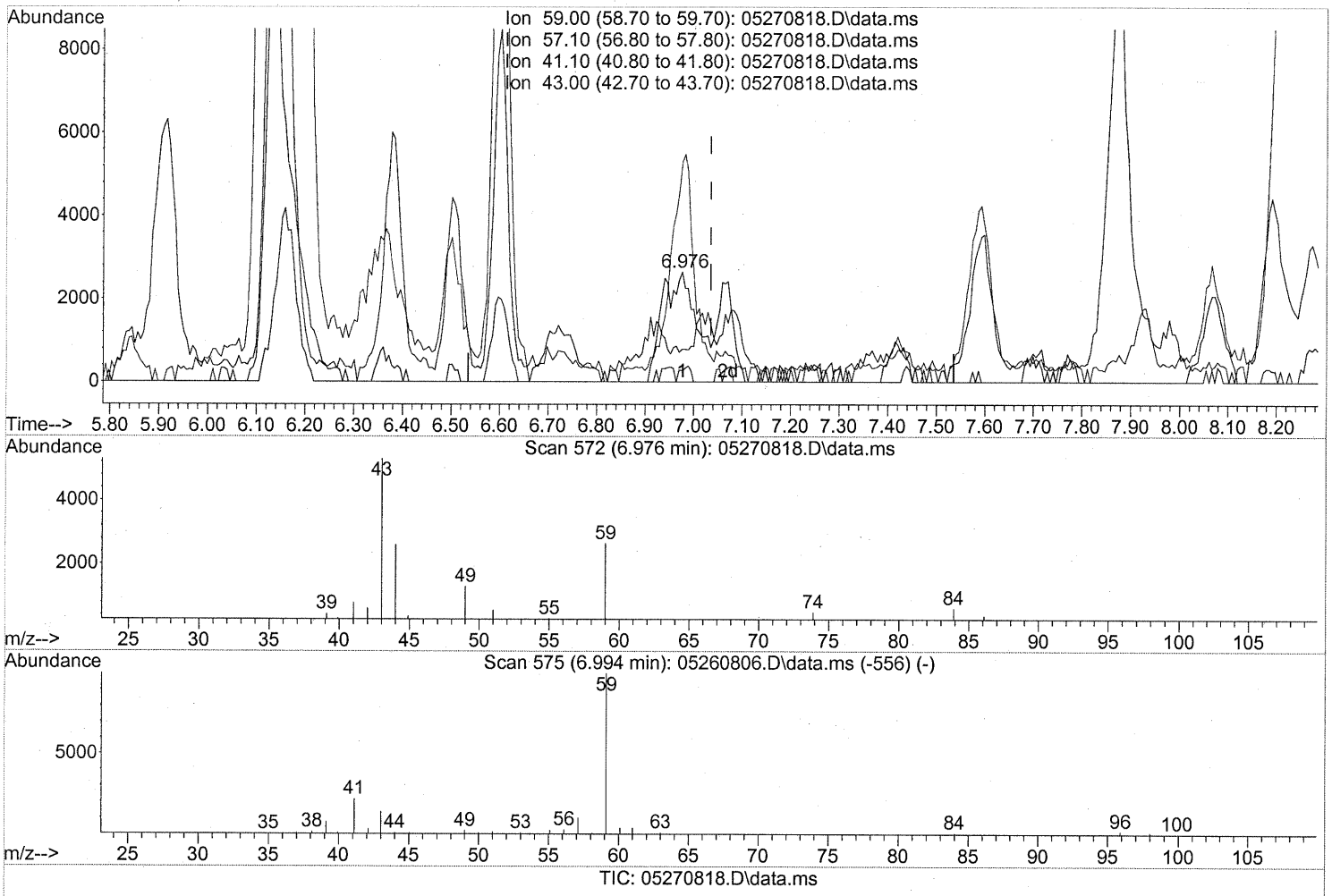
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	4.18
41.10	21.90	0.00#
43.00	17.20	127.75#

479

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(18) tert-Butanol (T)

6.976min (-0.059) 0.43ng m

response 18505

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	2.91
41.10	21.90	0.00#
43.00	17.20	88.84#

int. whole peaks

DA 6/4/08

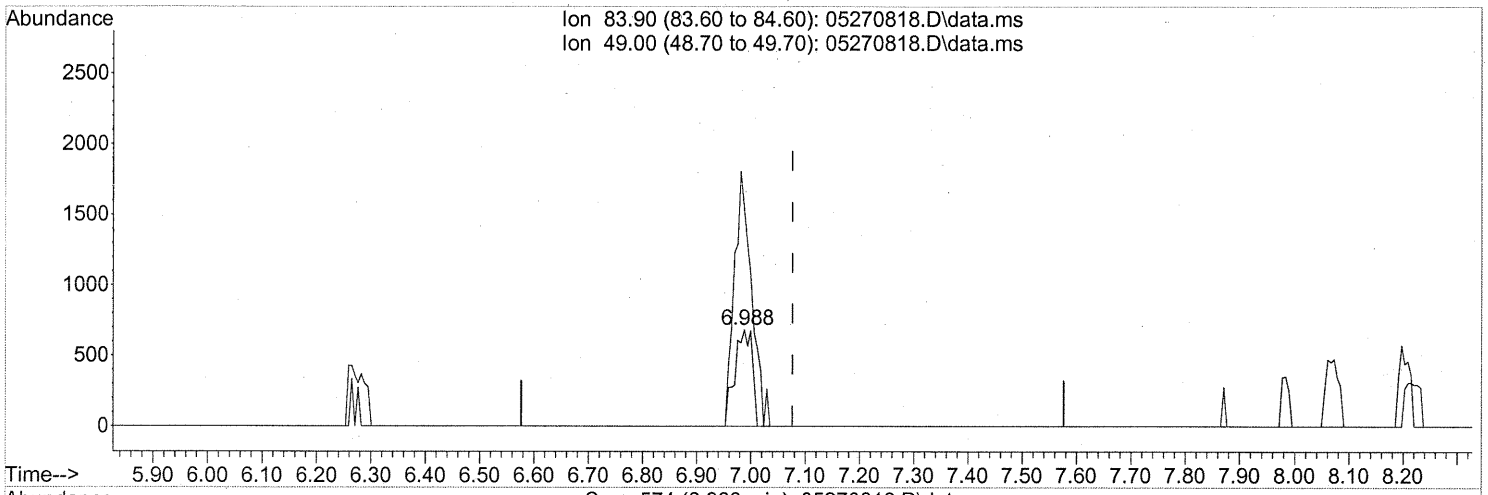
6/4/08

480

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(19) Methylene Chloride (T)

6.988min (-0.089) 0.13ng

response 1517

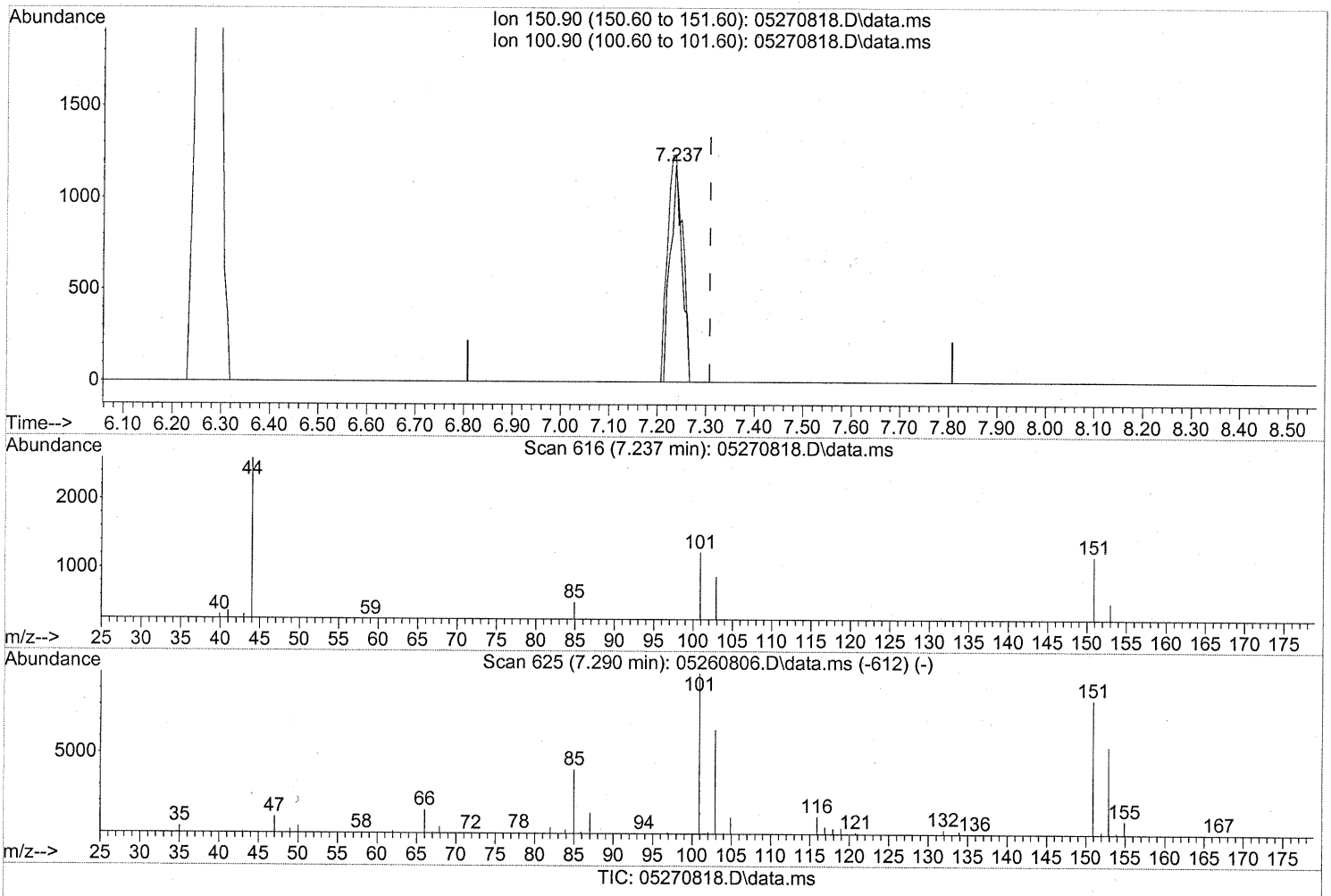
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	262.23#
0.00	0.00	0.00
0.00	0.00	0.00

481

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(21) Trichlorotrifluoroethane (T)

7.237min (-0.071) 0.16ng

response 1984

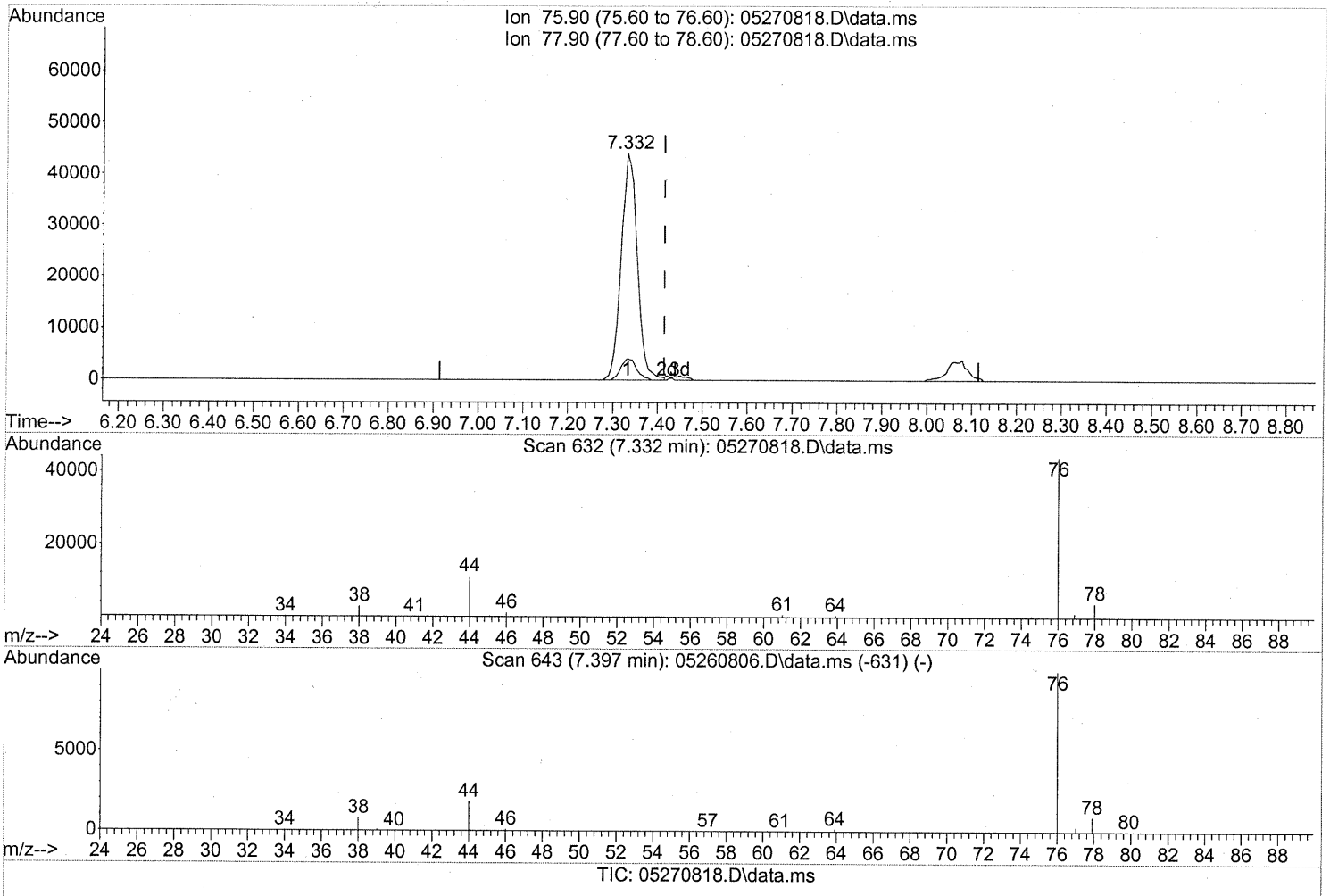
Ion	Exp%	Act%
150.90	100	100
100.90	136.10	132.11
0.00	0.00	0.00
0.00	0.00	0.00

482

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(22) Carbon Disulfide (T)

7.332min (-0.083) 2.32ng

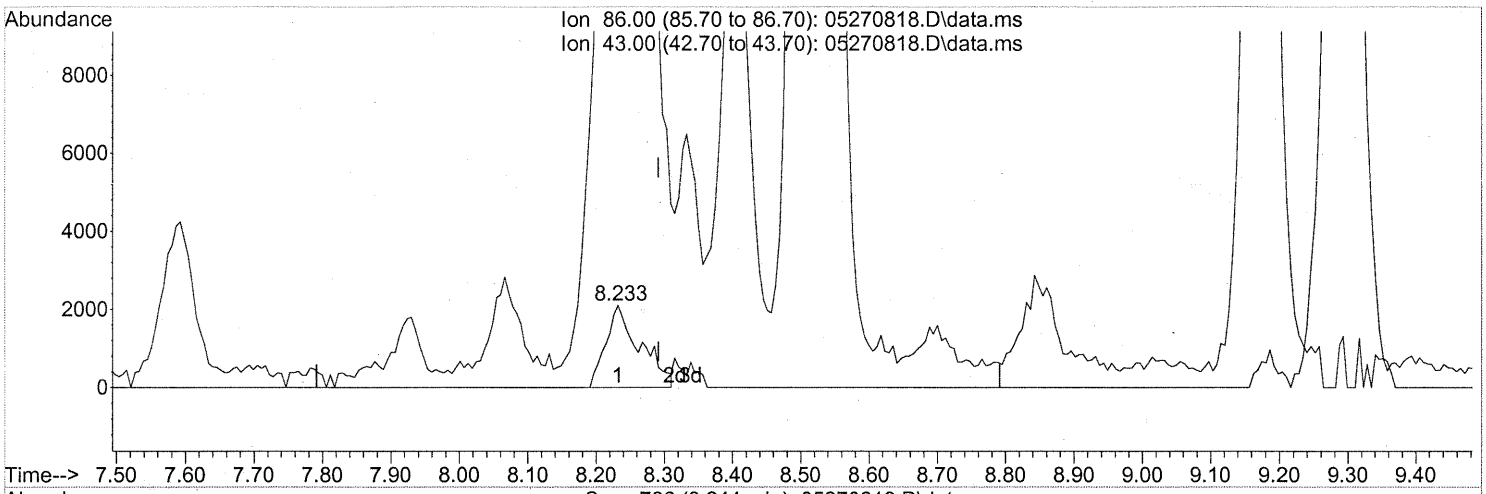
response 109842

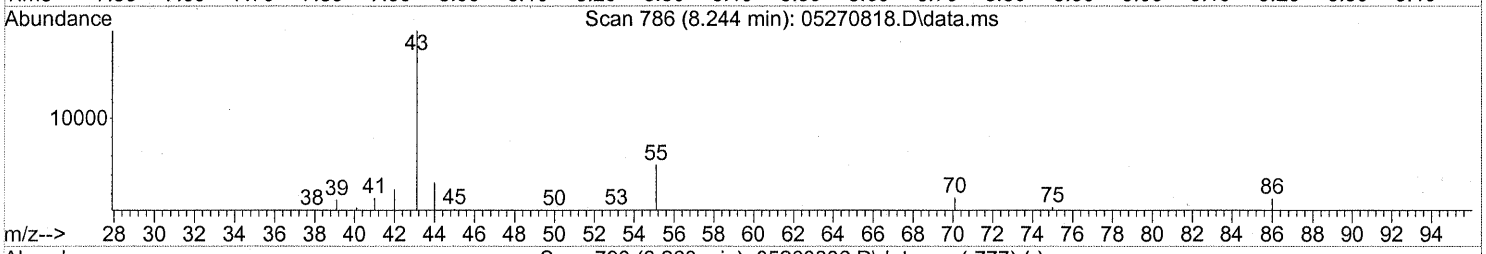
Ion	Exp%	Act%
75.90	100	100
77.90	9.10	9.03
0.00	0.00	0.00
0.00	0.00	0.00

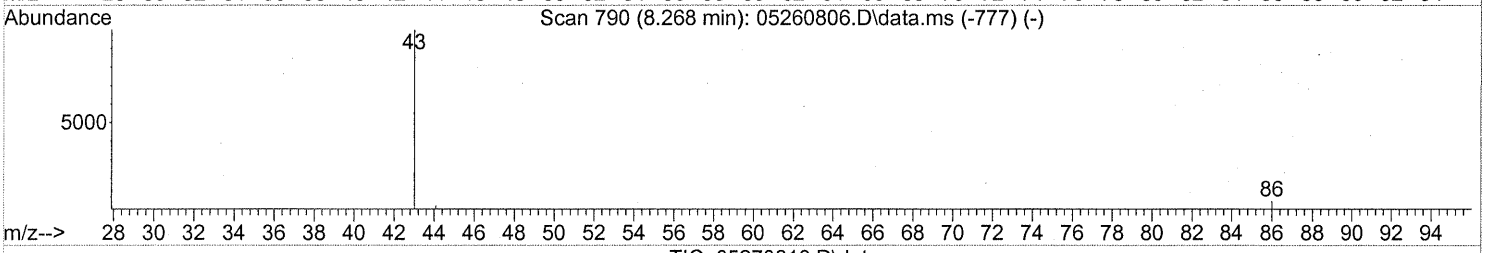
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(26) Vinyl Acetate (T)

8.233min (-0.059) 2.91ng

response 7284

Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	1561.42#
0.00	0.00	0.00
0.00	0.00	0.00

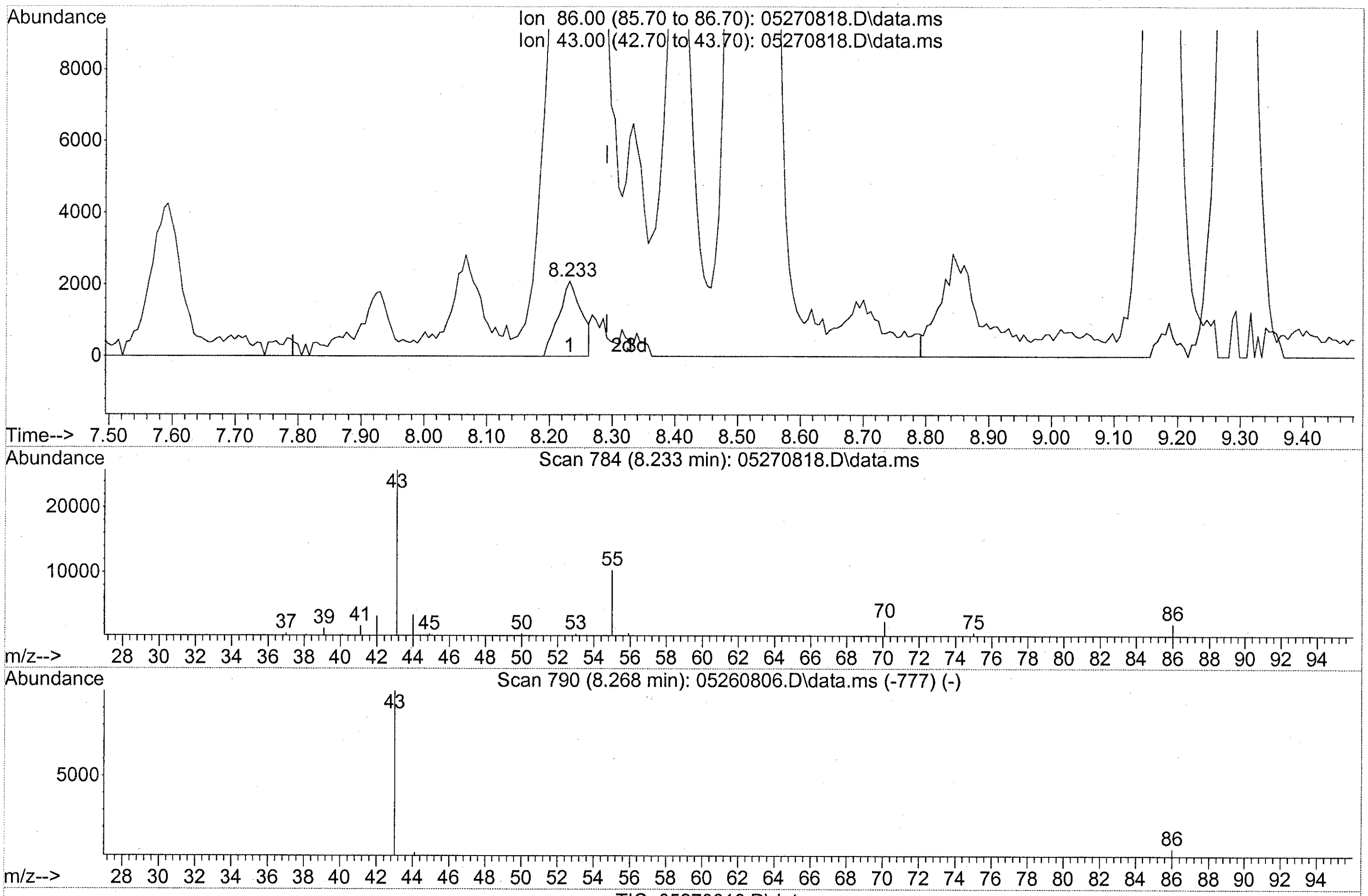
tailing

484

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(26) Vinyl Acetate (T)

8.233min (-0.059) 2.11ng m

response 5274

Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	2156.50#
0.00	0.00	0.00
0.00	0.00	0.00

No. tailing

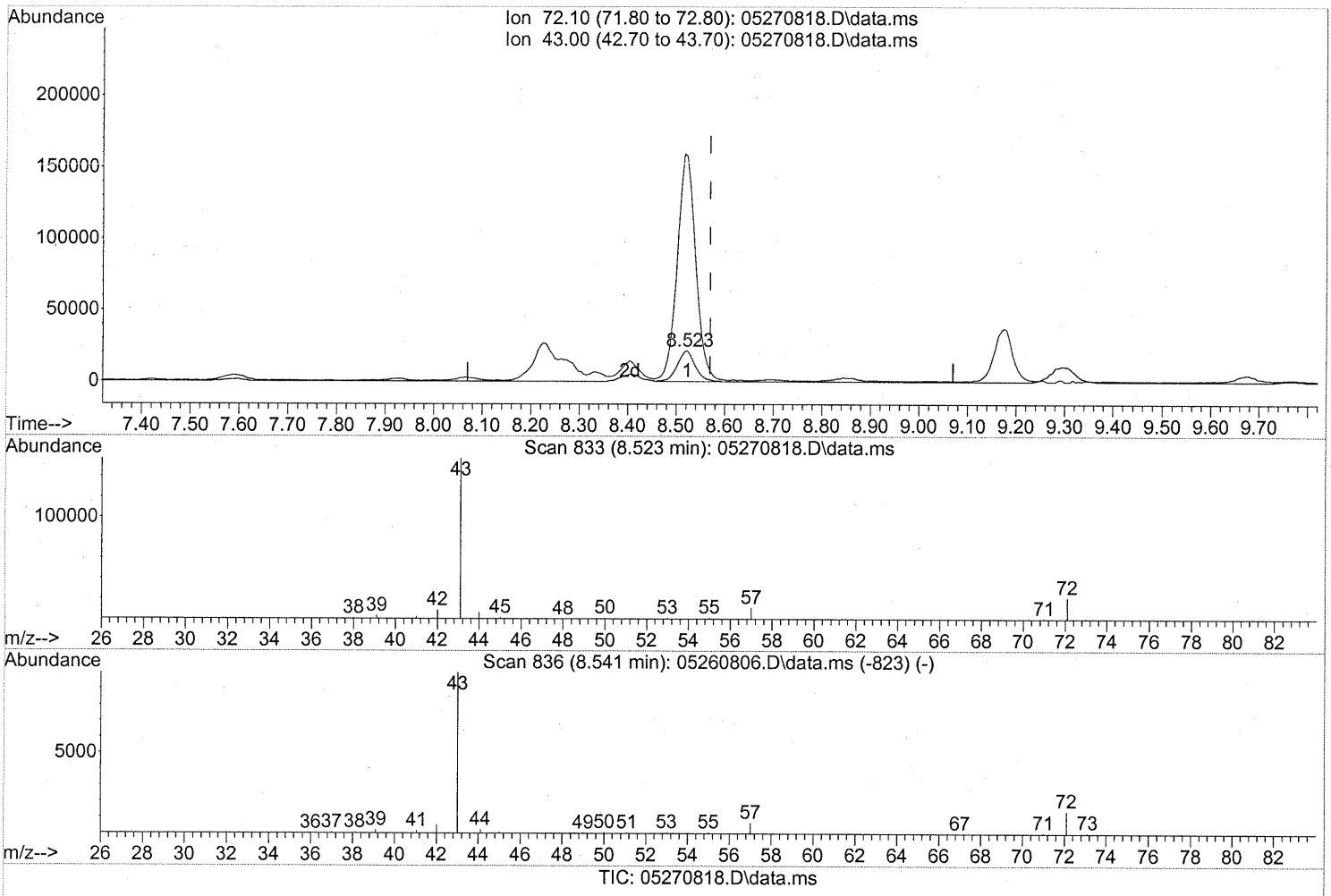
WA 6/4/08

C. 6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(27) 2-Butanone (T)

8.523min (-0.047) 6.85ng

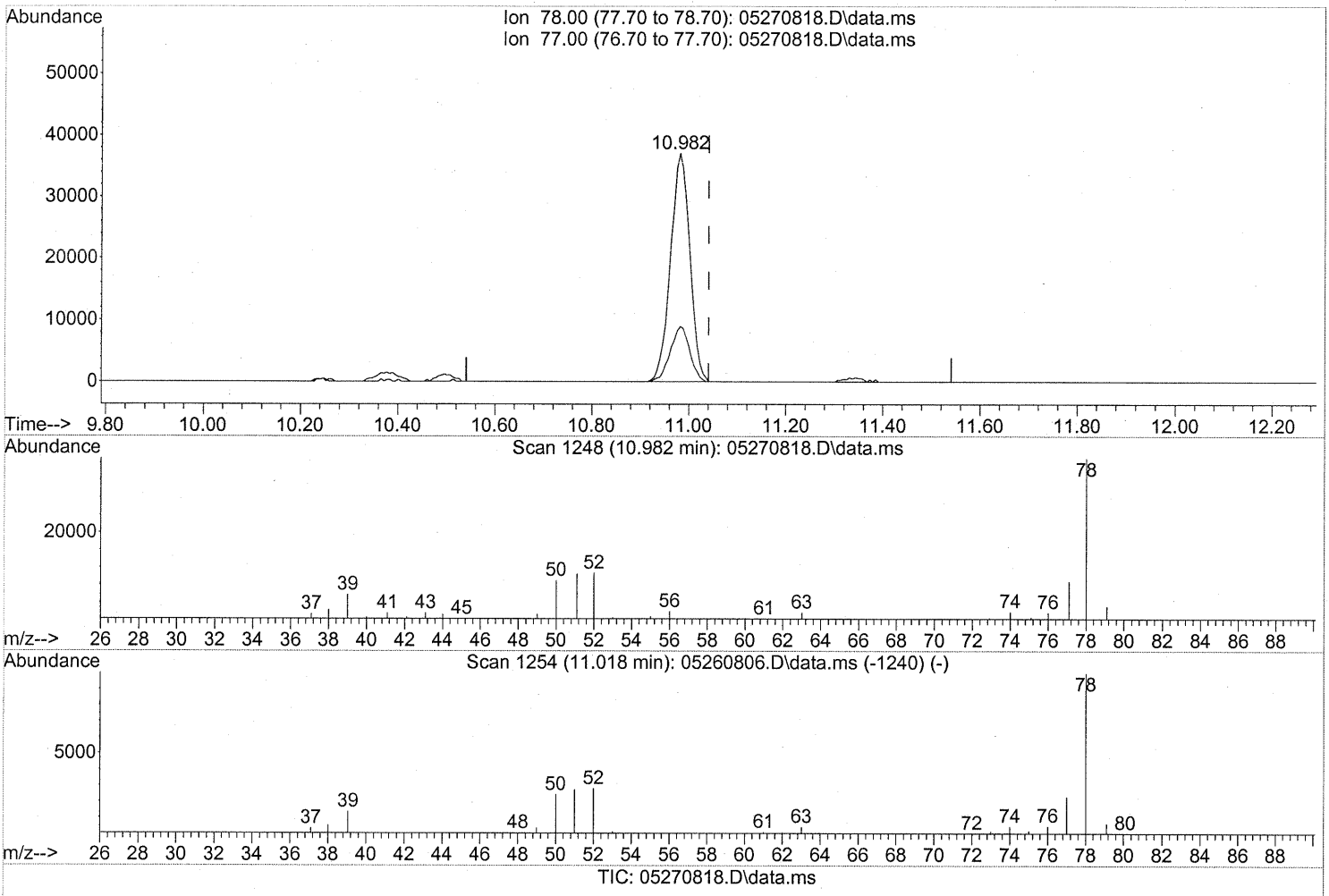
response 54748

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	767.47#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(41) Benzene (T)

10.982min (-0.059) 1.69ng

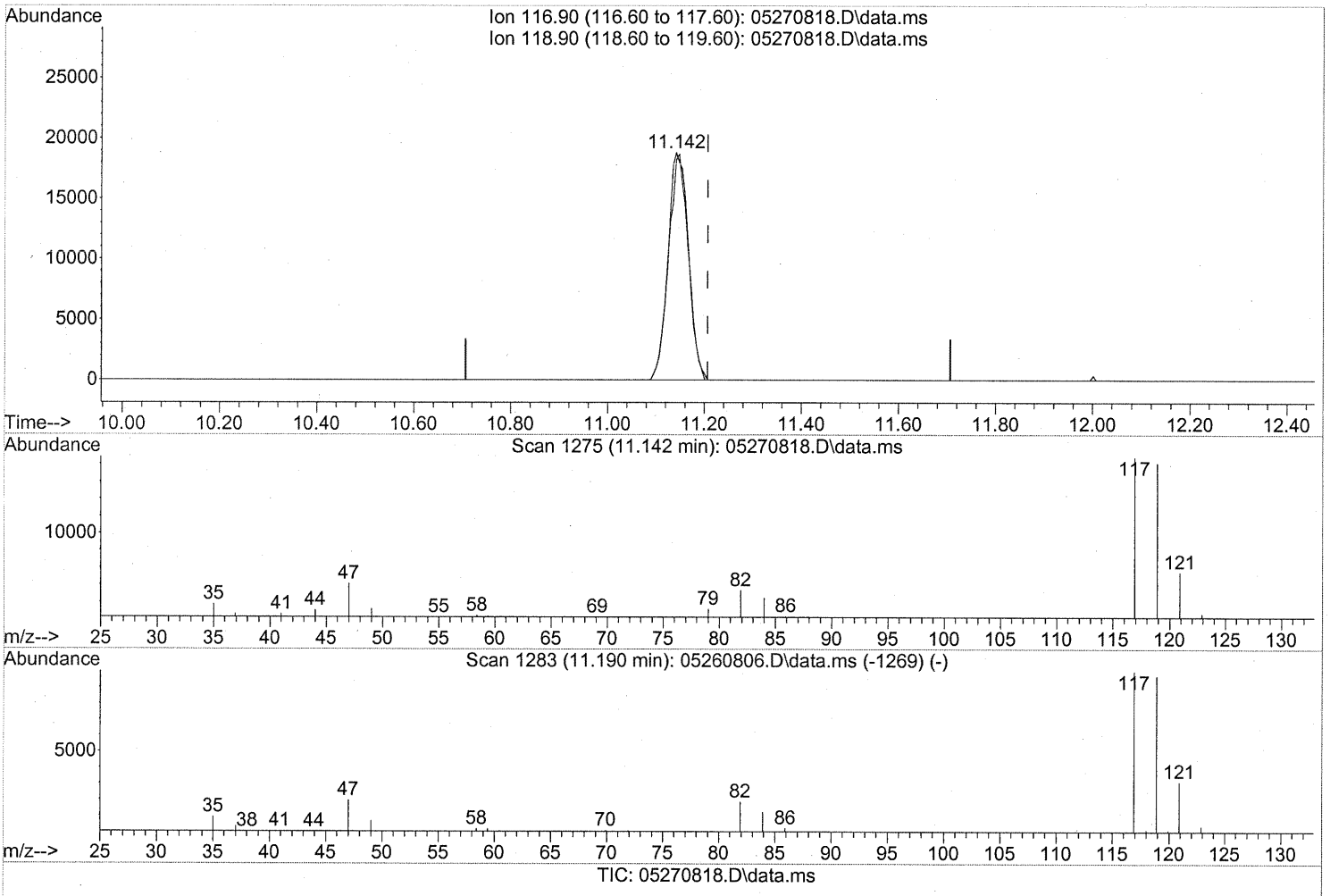
response 101306

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	24.17
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(42) Carbon Tetrachloride (T)

11.142min (-0.065) 2.22ng

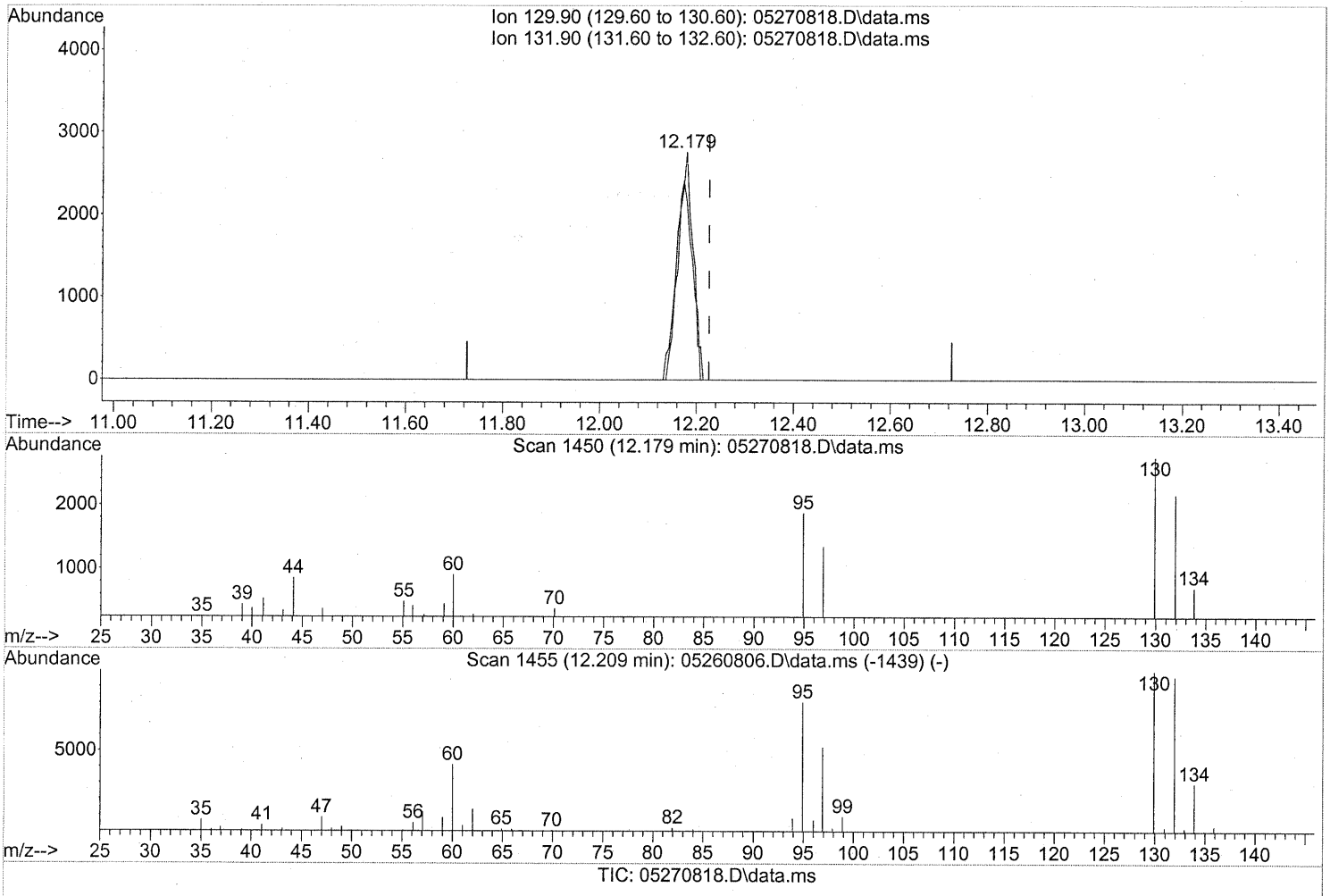
response 54530

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.179min (-0.047) 0.33ng

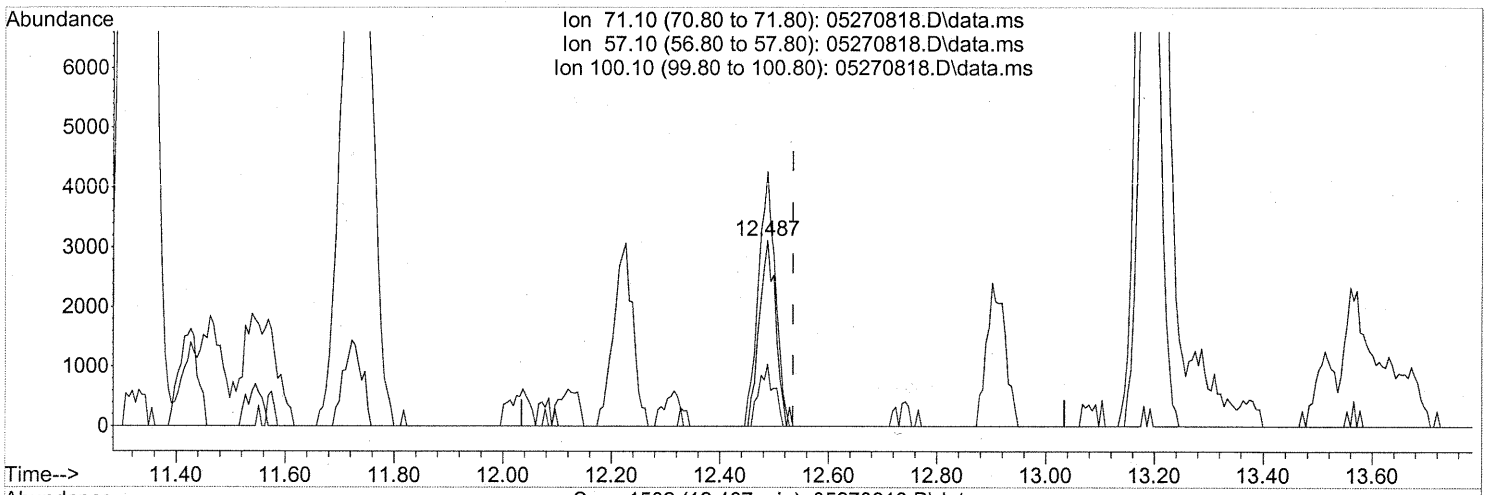
response 6178

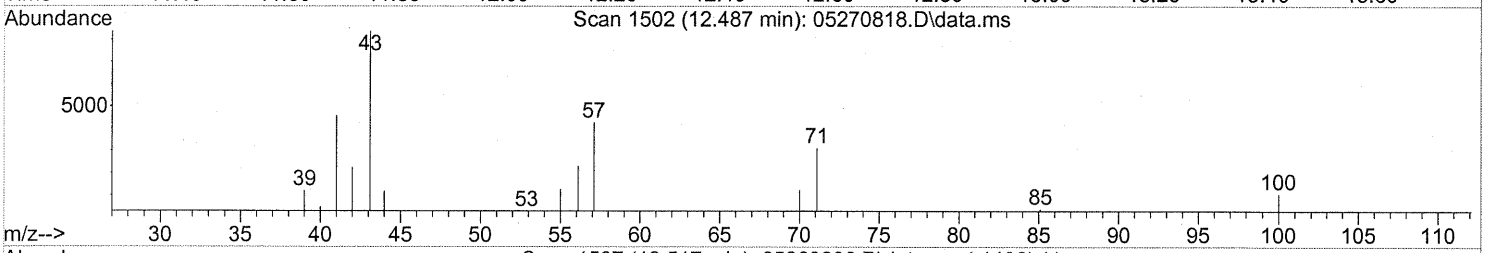
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	86.27
0.00	0.00	0.00
0.00	0.00	0.00

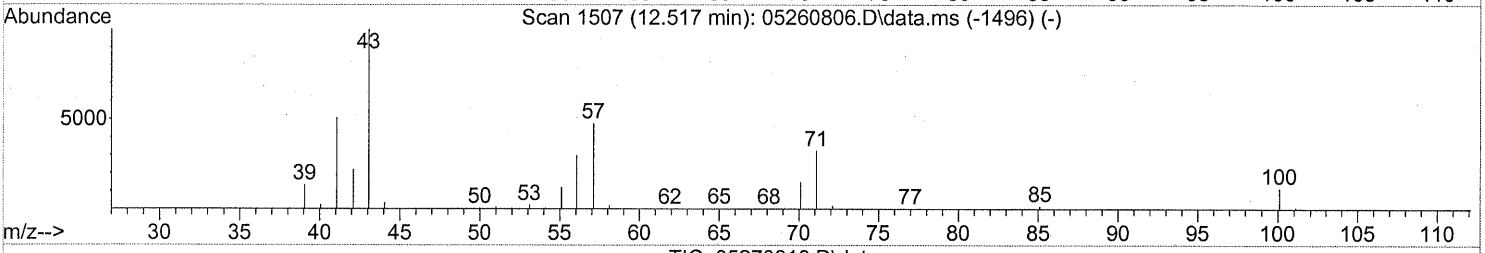
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(51) n-Heptane (T)

12.487min (-0.047) 0.46ng

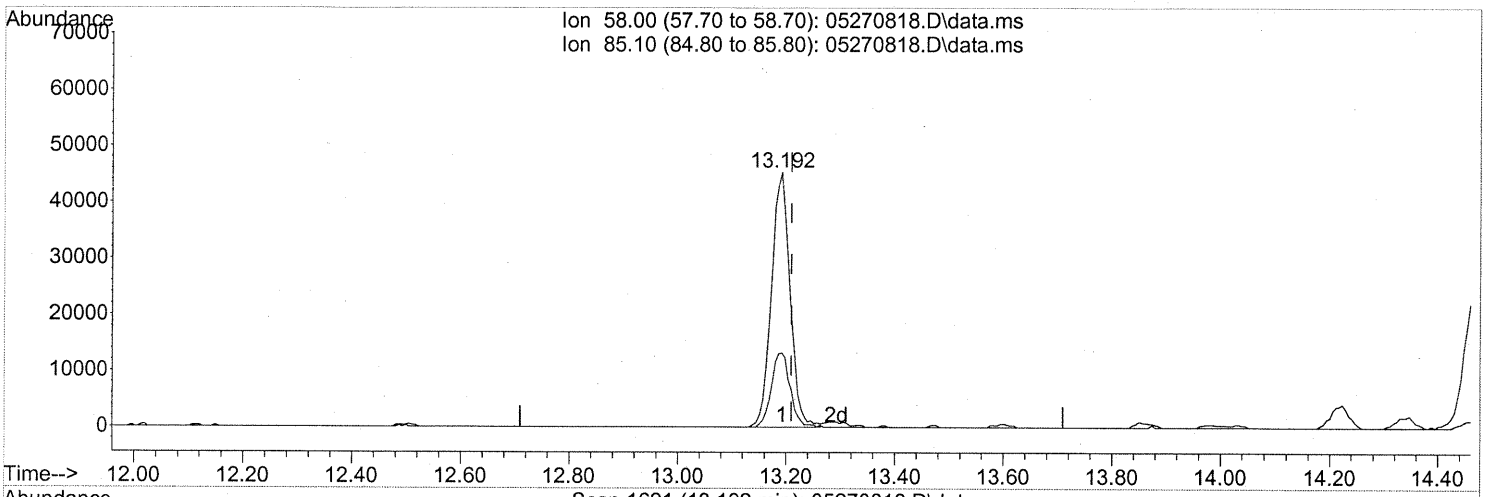
response 6607

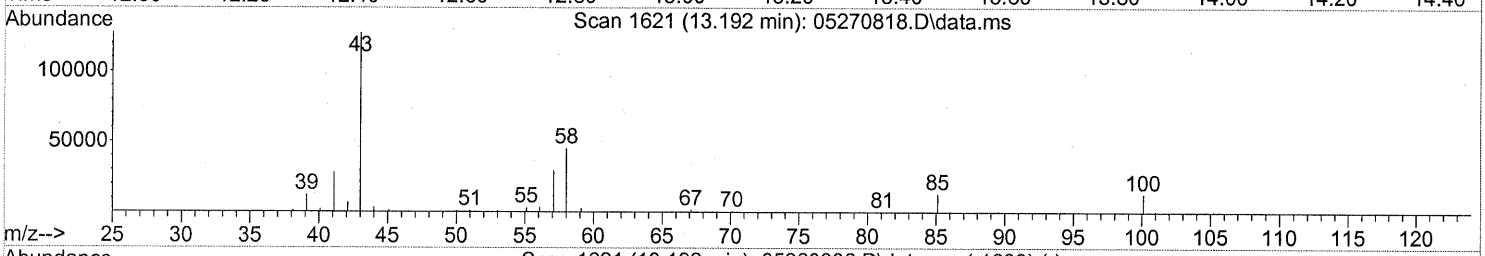
Ion	Exp%	Act%
71.10	100	100
57.10	88.70	140.64#
100.10	28.80	30.72
0.00	0.00	0.00

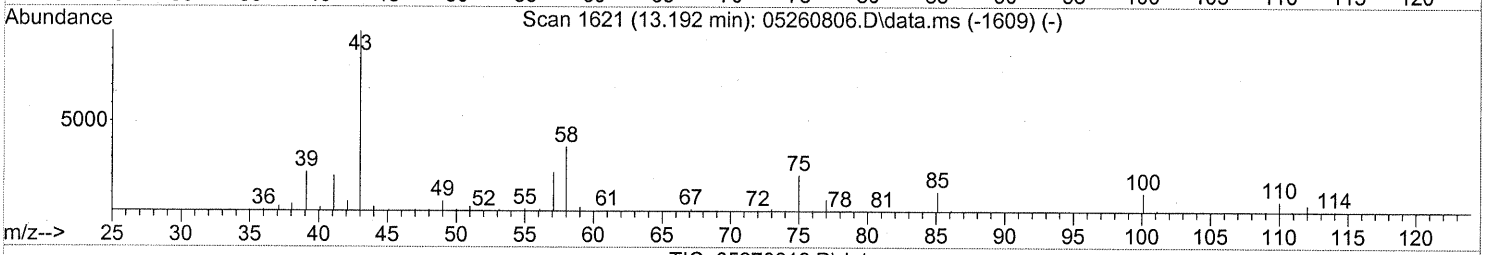
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

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

13.192min (-0.018) 5.22ng

response 108714

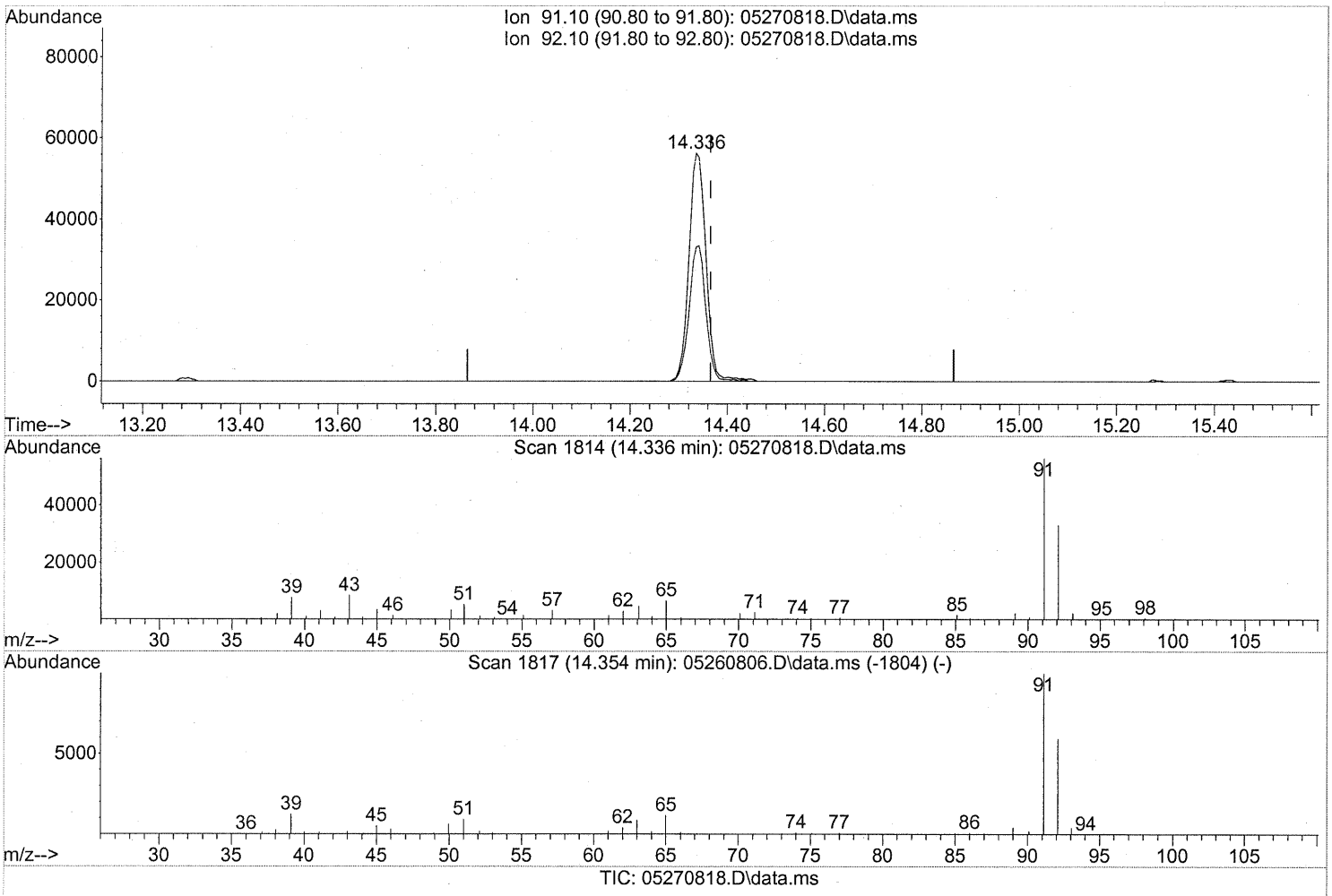
Ion	Exp%	Act%
58.00	100	100
85.10	40.70	29.44
0.00	0.00	0.00
0.00	0.00	0.00

491

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(58) Toluene (T)

14.336min (-0.030) 2.39ng

response 138035

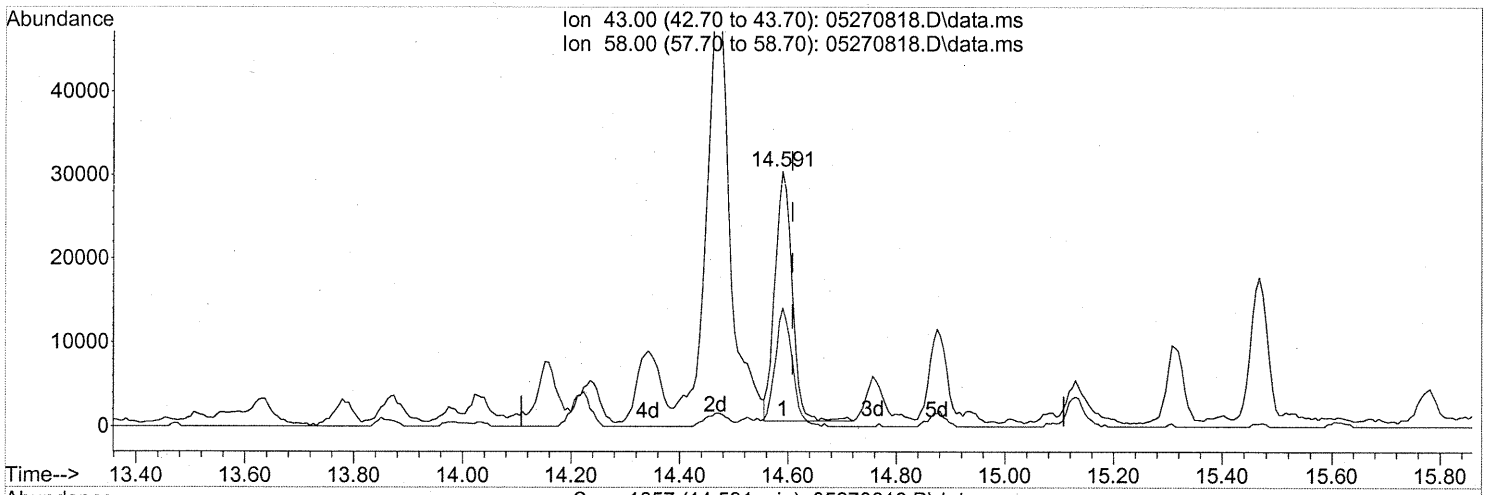
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	57.92
0.00	0.00	0.00
0.00	0.00	0.00

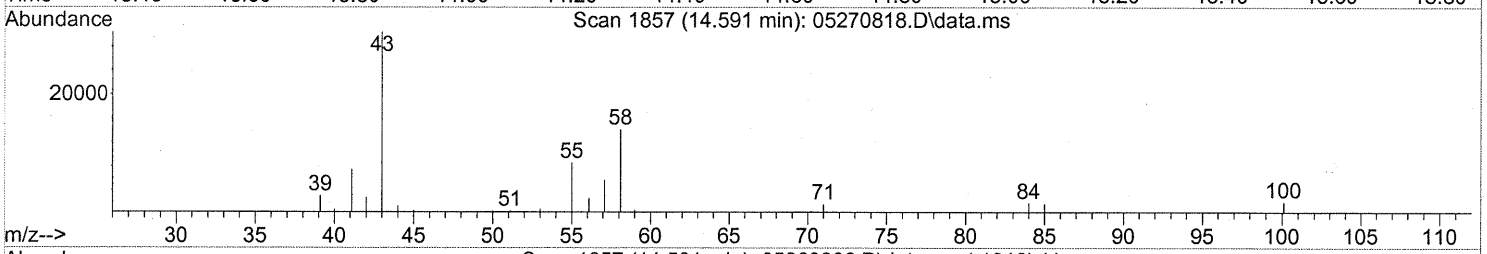
492

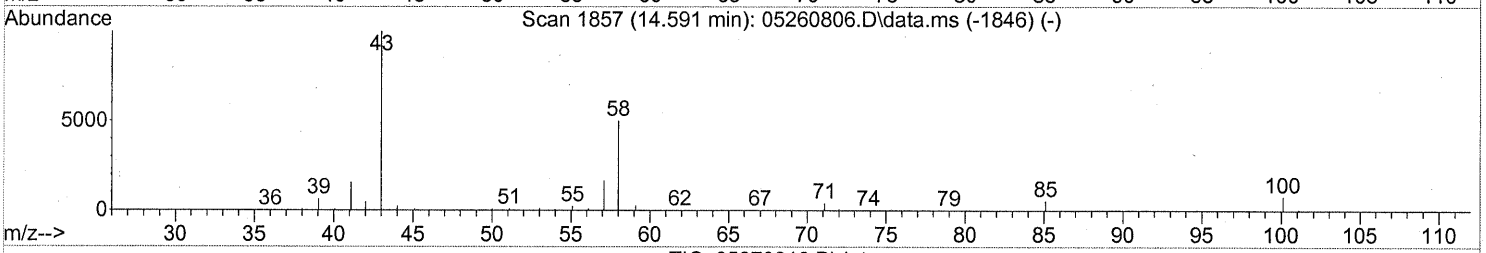
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(59) 2-Hexanone (T)

14.591min (-0.018) 1.21ng

response 66050

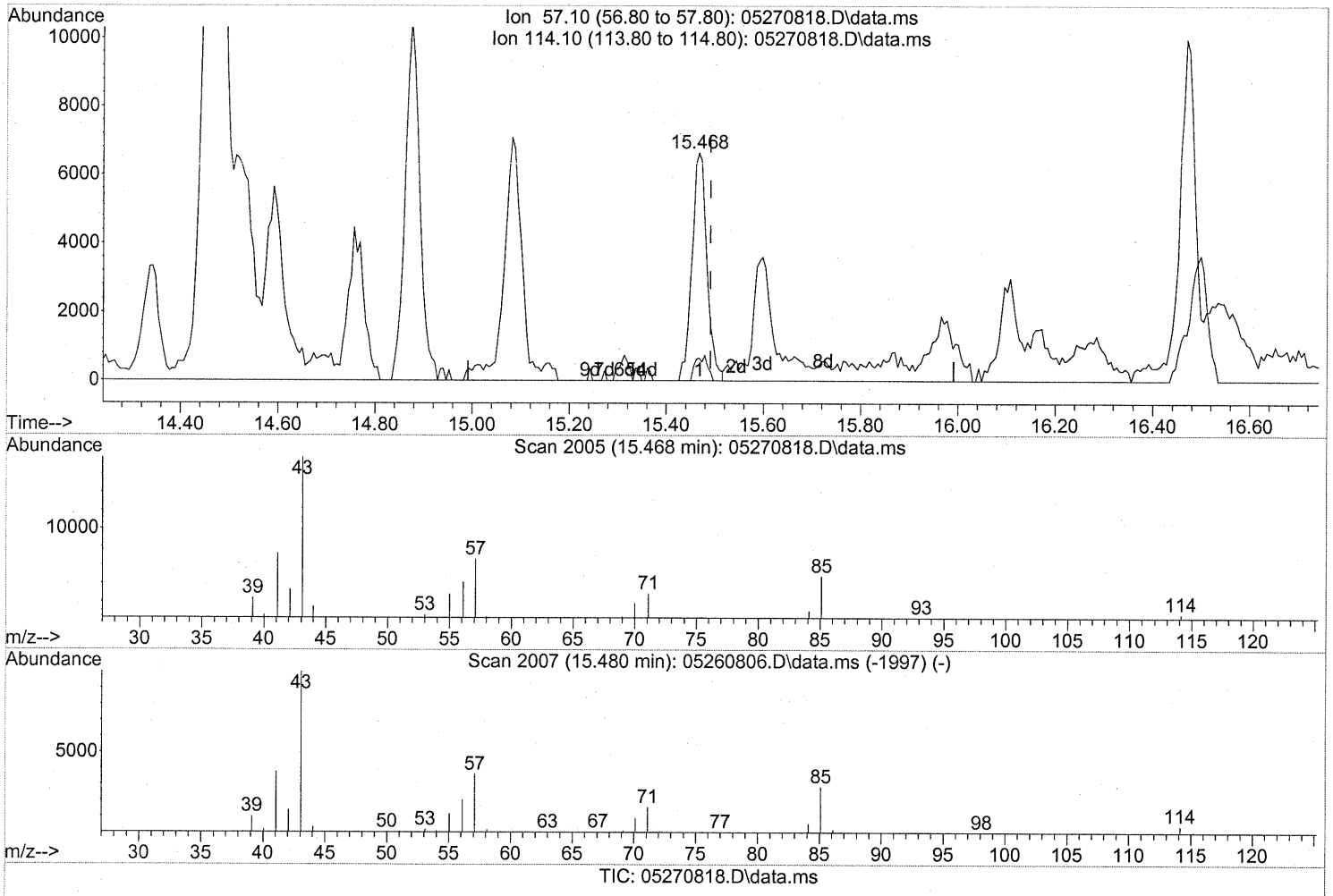
Ion	Exp%	Act%
43.00	100	100
58.00	50.90	47.70
0.00	0.00	0.00
0.00	0.00	0.00

493

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(63) n-Octane (T)

15.468min (-0.024) 0.82ng

response 14379

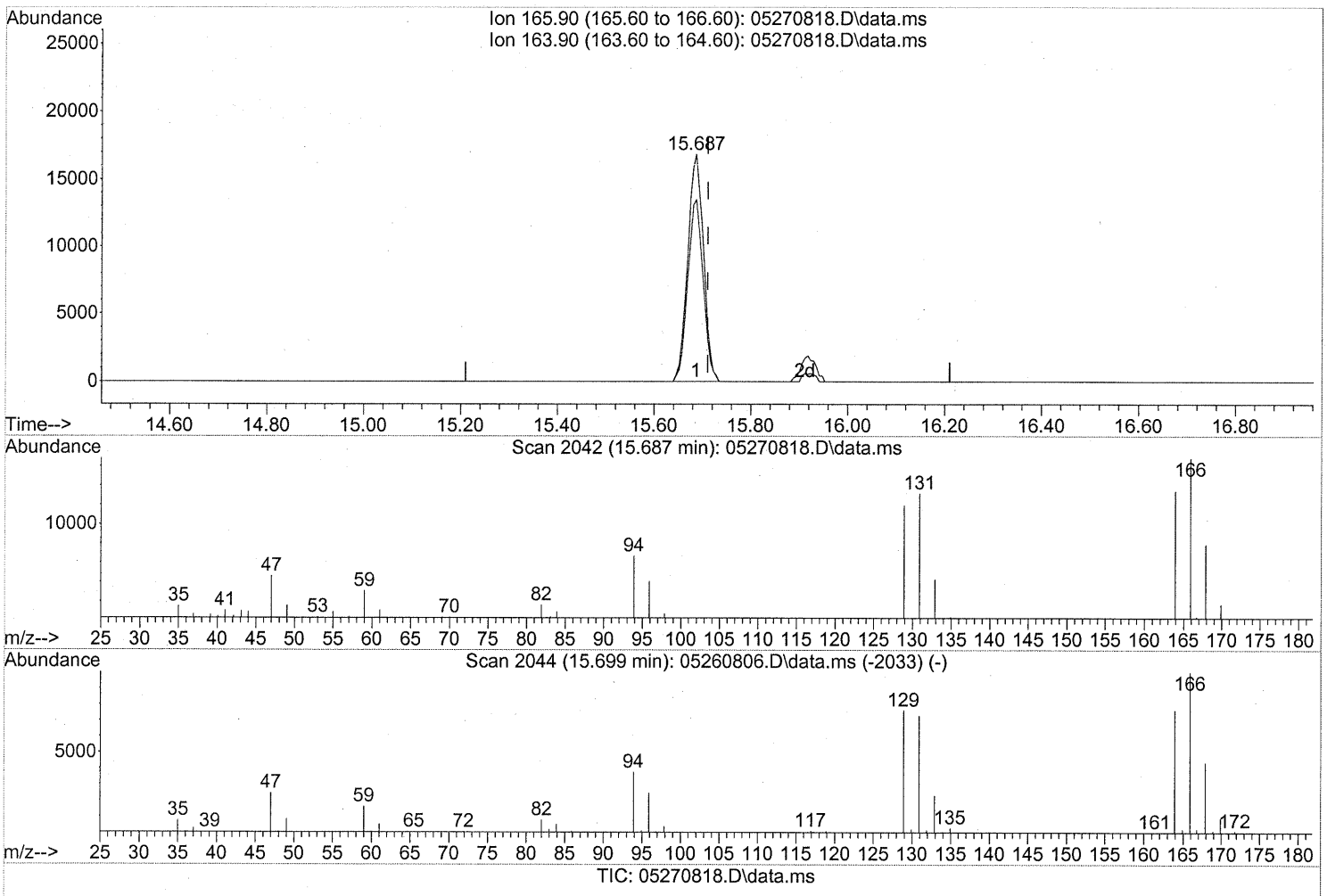
Ion	Exp%	Act%
57.10	100	100
114.10	13.60	8.92
0.00	0.00	0.00
0.00	0.00	0.00

494

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(64) Tetrachloroethene (T)

15.687min (-0.024) 2.22ng

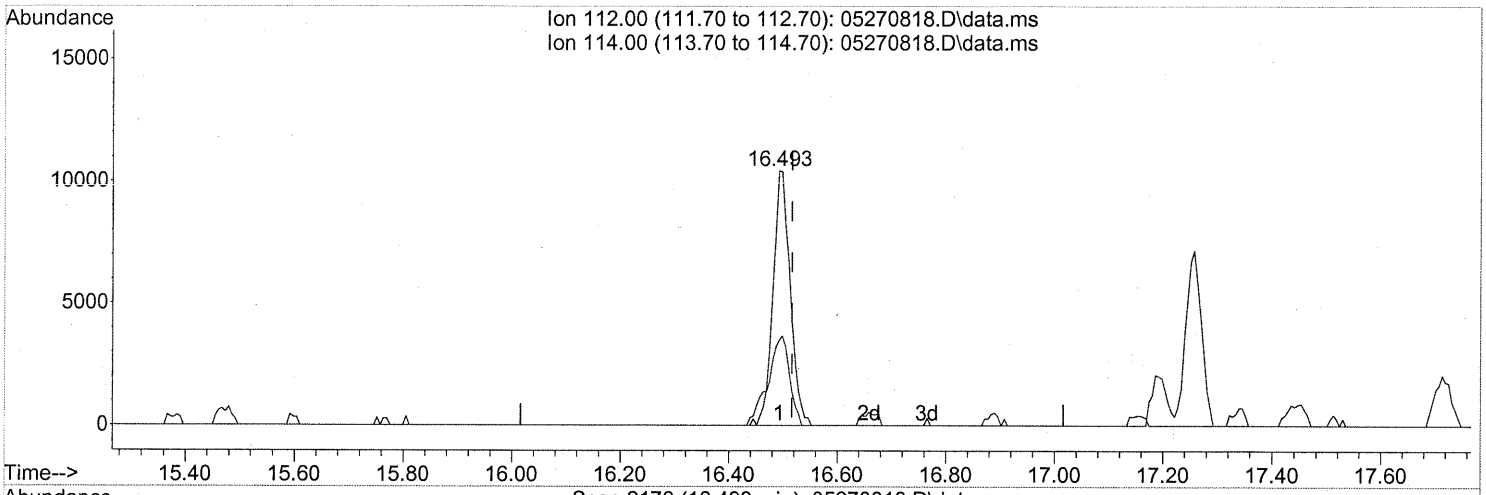
response 37982

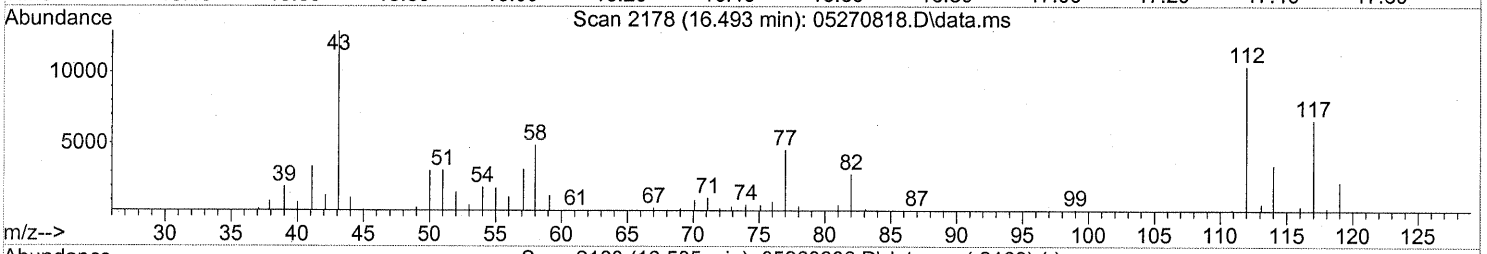
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.12
0.00	0.00	0.00
0.00	0.00	0.00

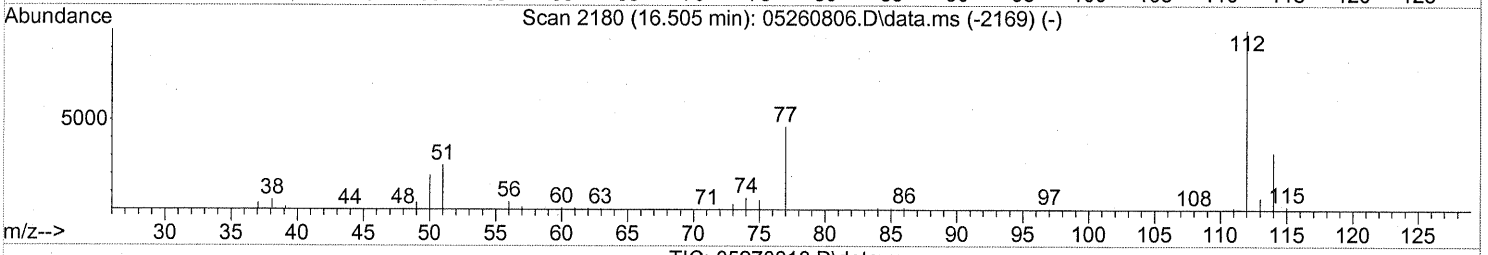
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(65) Chlorobenzene (T)

16.493min (-0.024) 0.56ng

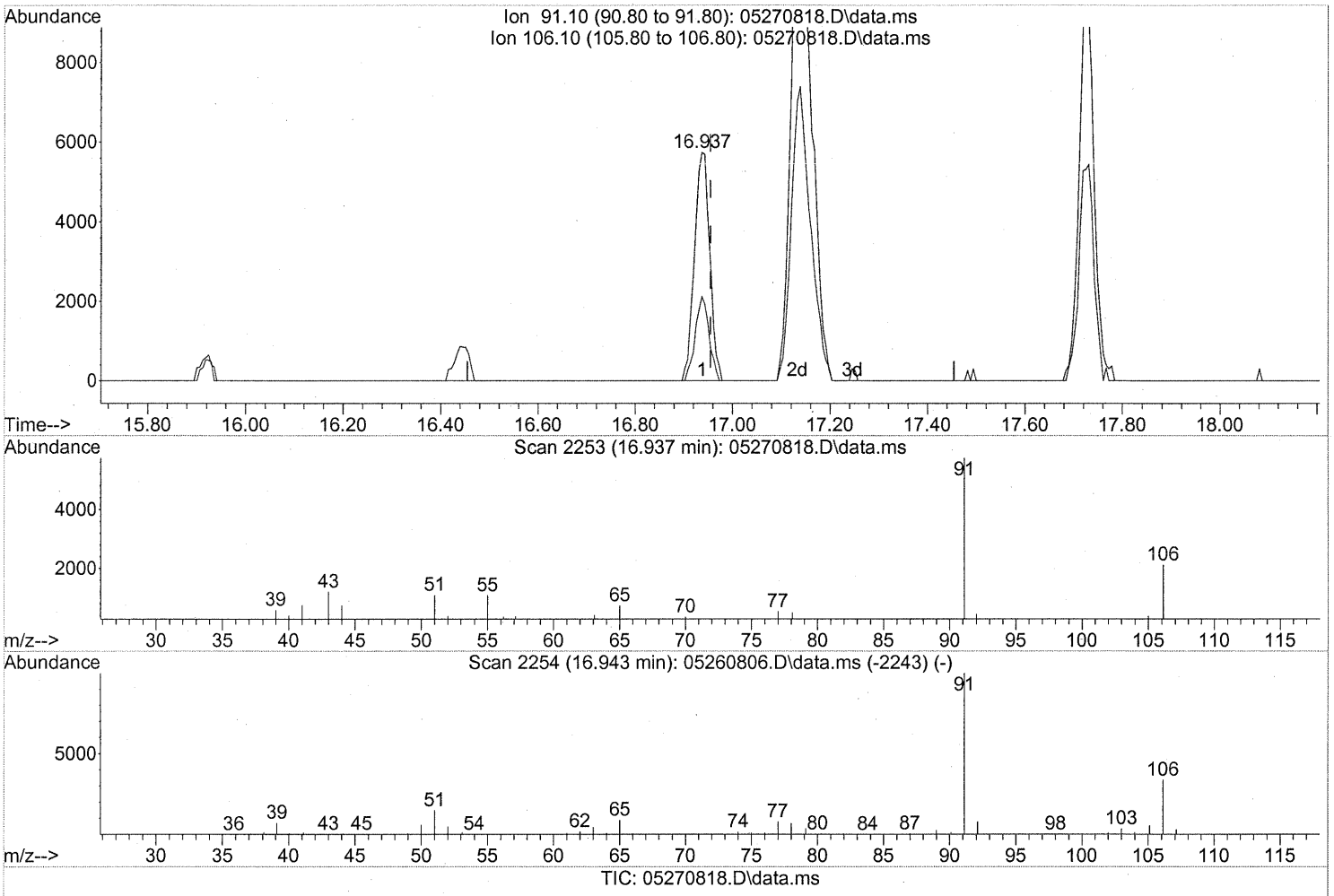
response 22939

Ion	Exp%	Act%
112.00	100	100
114.00	32.10	43.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(66) Ethylbenzene (T)

16.937min (-0.018) 0.19ng

response 12574

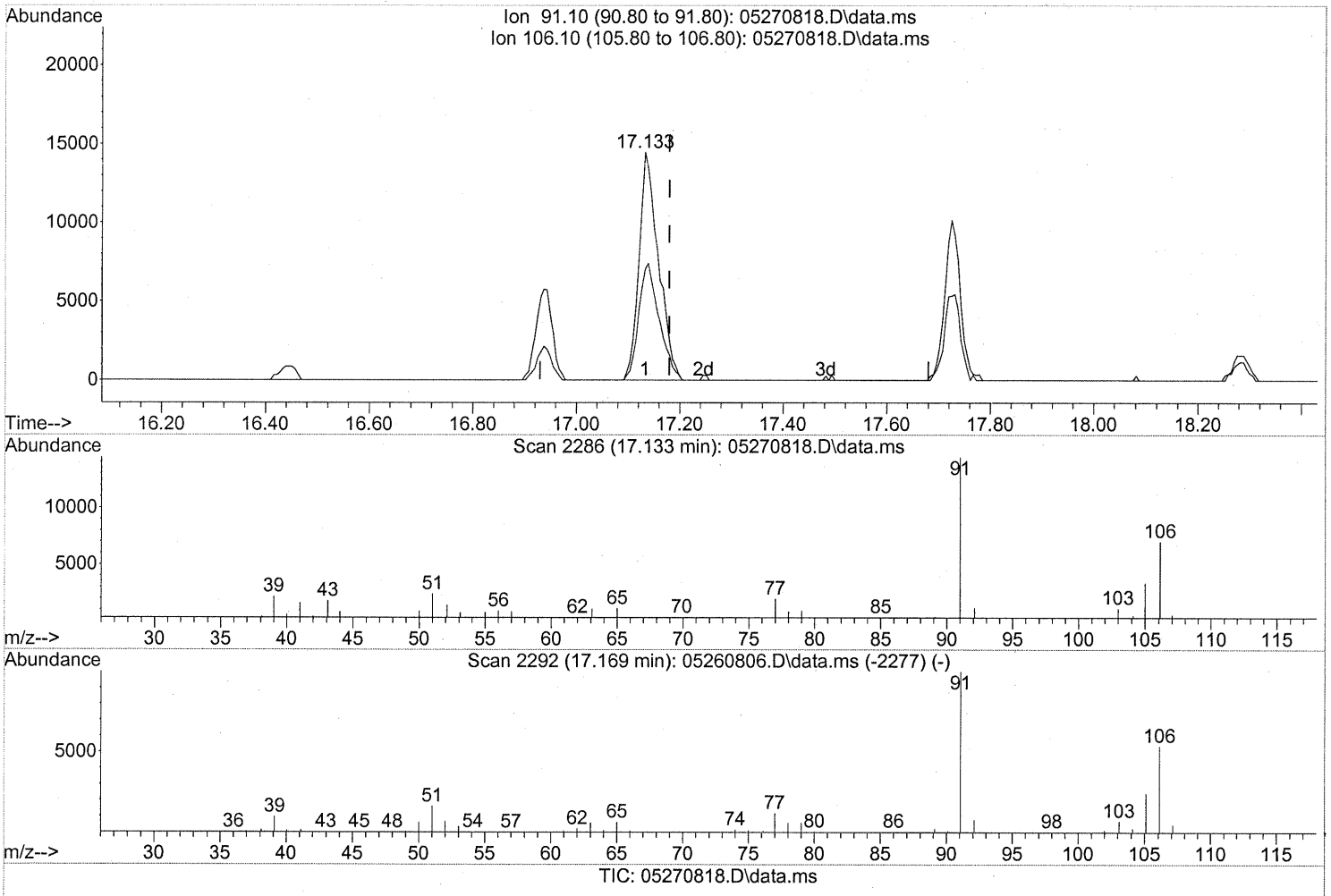
Ion	Exp%	Act%
91.10	100	100
106.10	29.90	33.20
0.00	0.00	0.00
0.00	0.00	0.00

497

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

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

17.133min (-0.047) 0.87ng

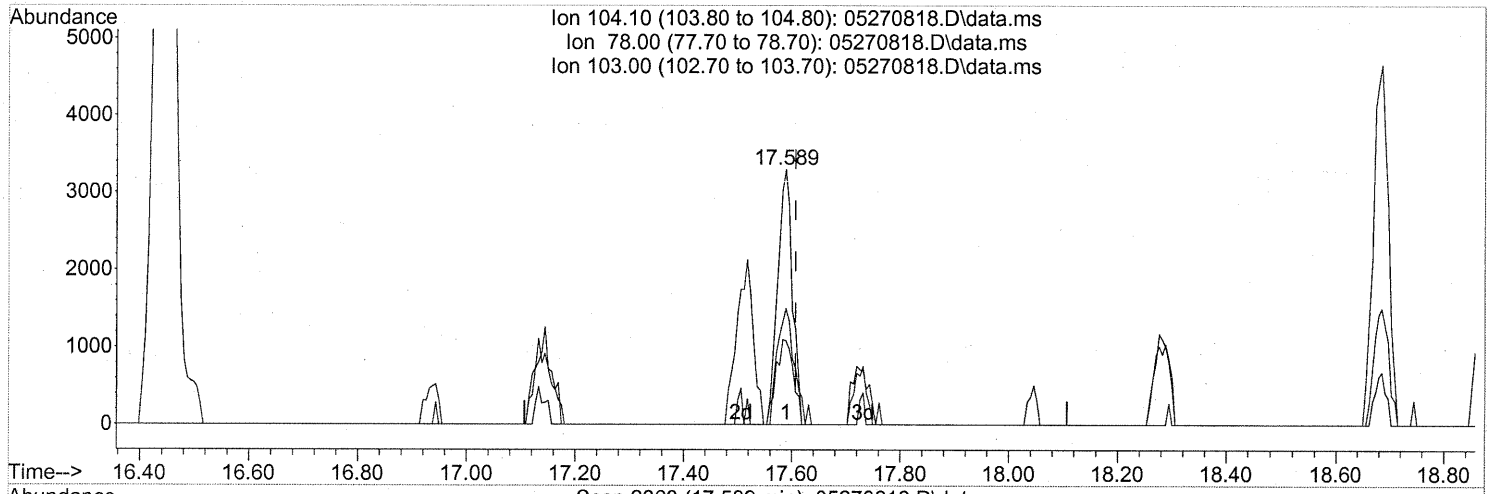
response 37800

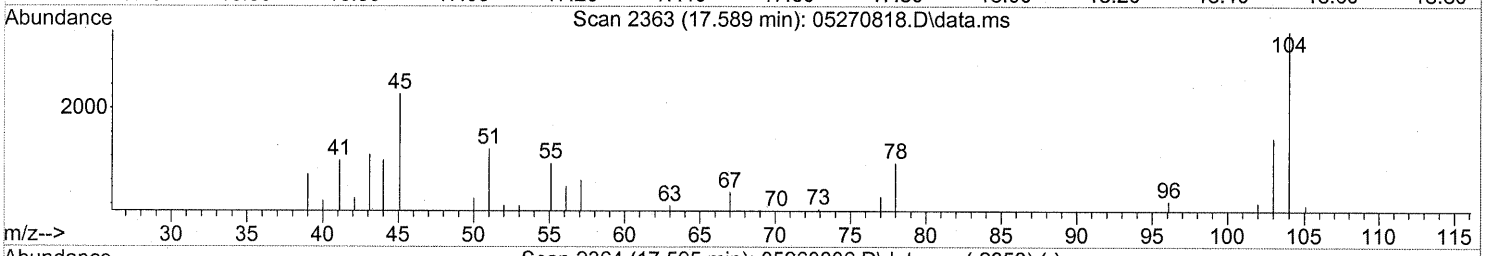
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.80
0.00	0.00	0.00
0.00	0.00	0.00

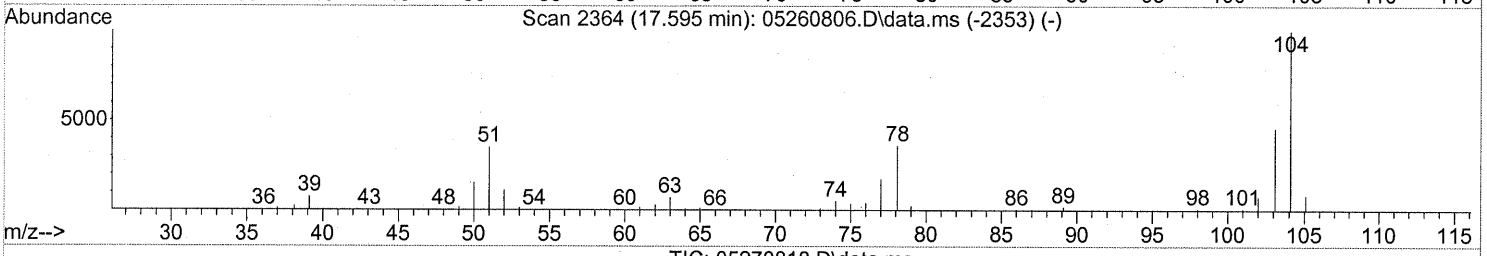
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(69) Styrene (T)

17.589min (-0.018) 0.15ng

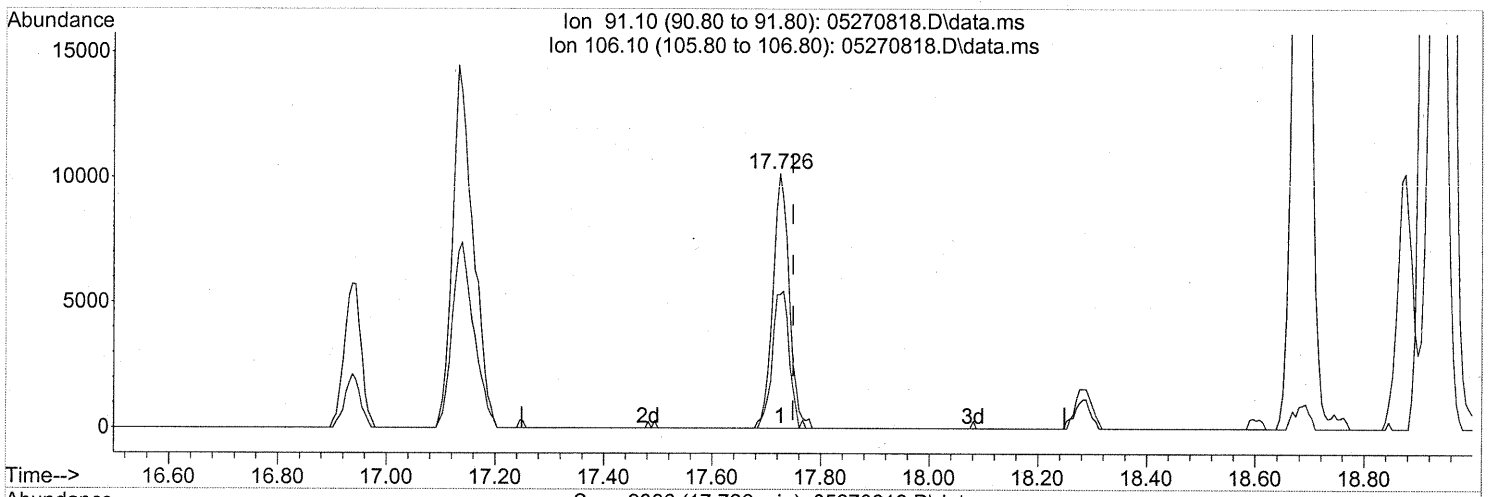
response 6260

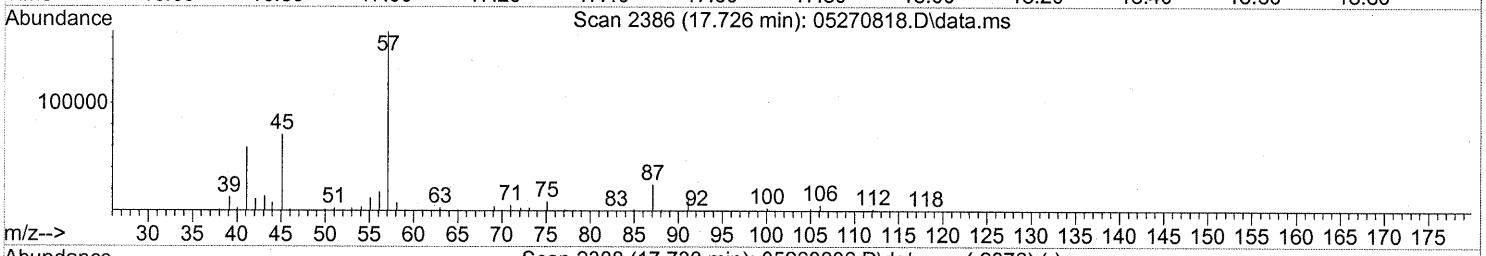
Ion	Exp%	Act%
104.10	100	100
78.00	43.30	39.22
103.00	47.60	53.26
0.00	0.00	0.00

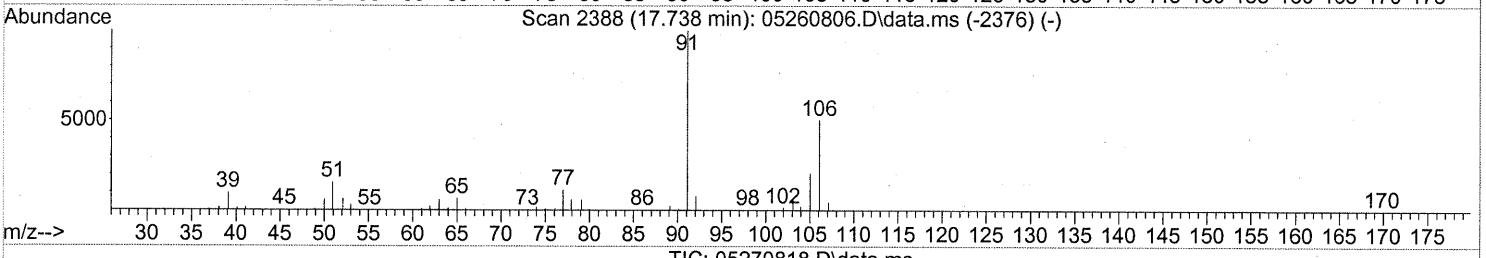
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.46ng

response 21349

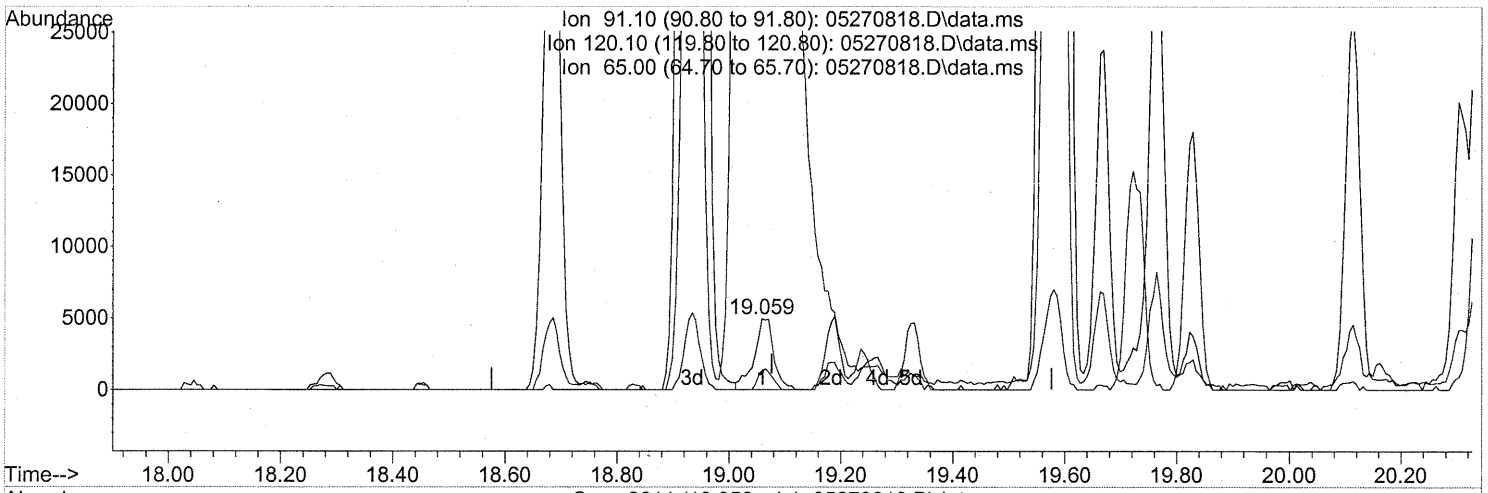
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	55.70
0.00	0.00	0.00
0.00	0.00	0.00

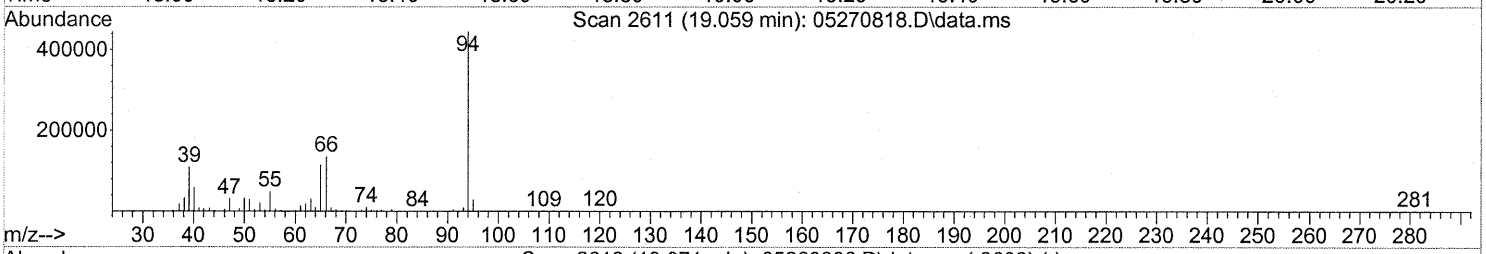
500

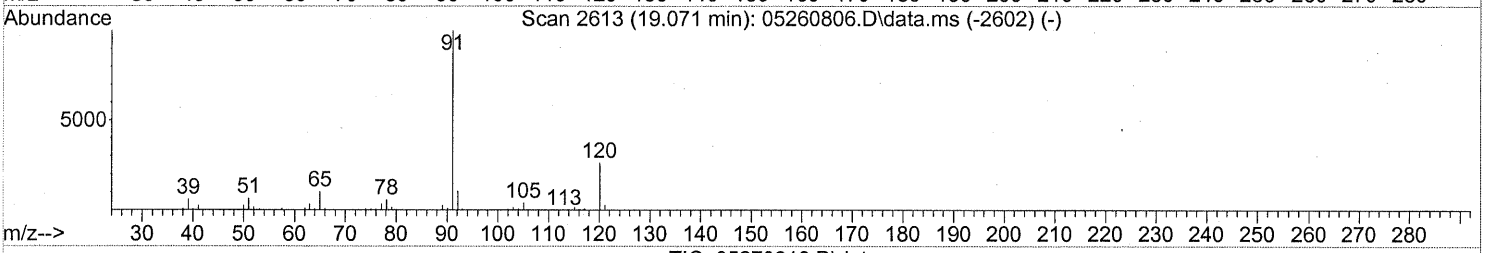
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(76) n-Propylbenzene (T)

19.059min (-0.018) 0.15ng

response 12123

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	20.54
65.00	10.40	0.00
0.00	0.00	0.00

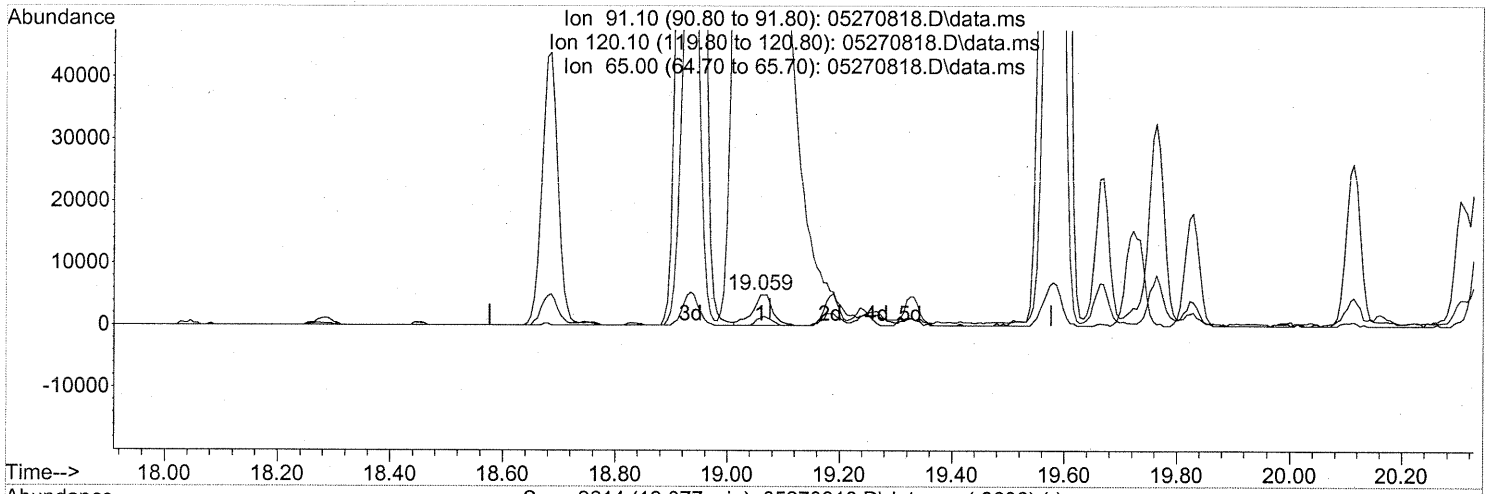
before

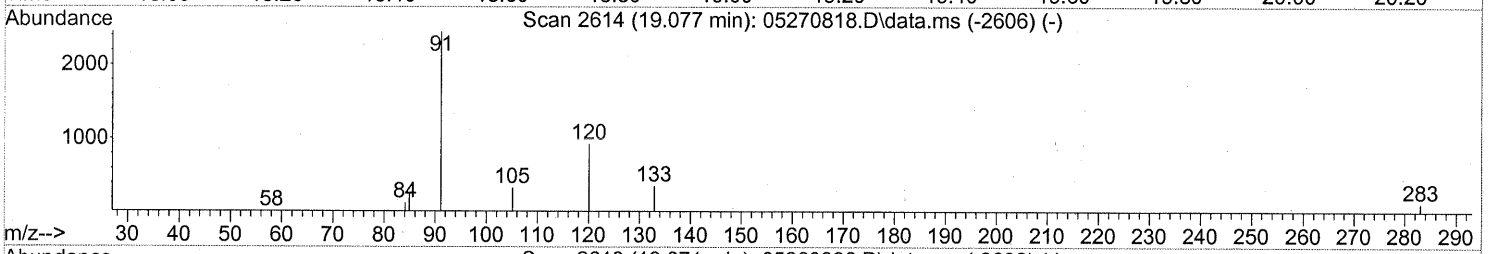
501

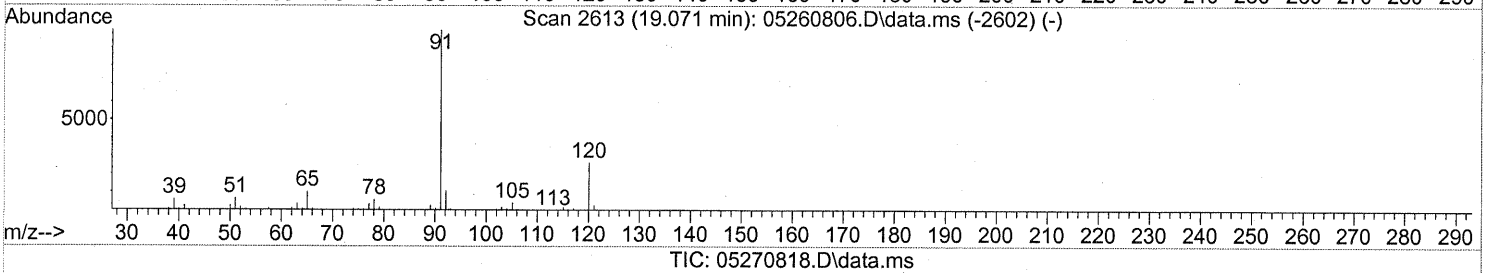
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(76) n-Propylbenzene (T)

19.059min (-0.018) 0.15ng

response 12123

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	20.54
65.00	10.40	0.00
0.00	0.00	0.00

after substraction

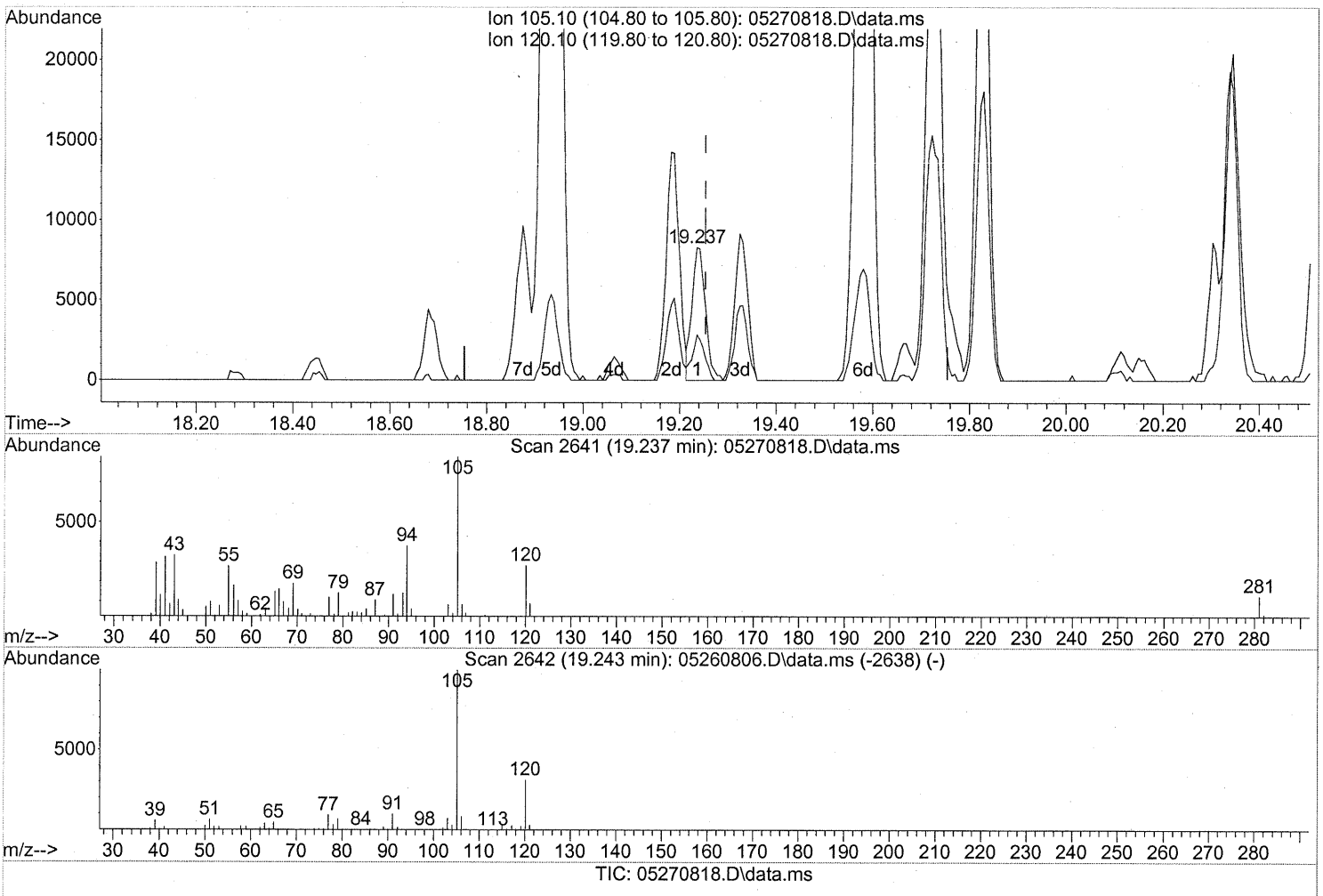
DM 6/5/08

502

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(78) 4-Ethyltoluene (T)

19.237min (-0.018) 0.24ng

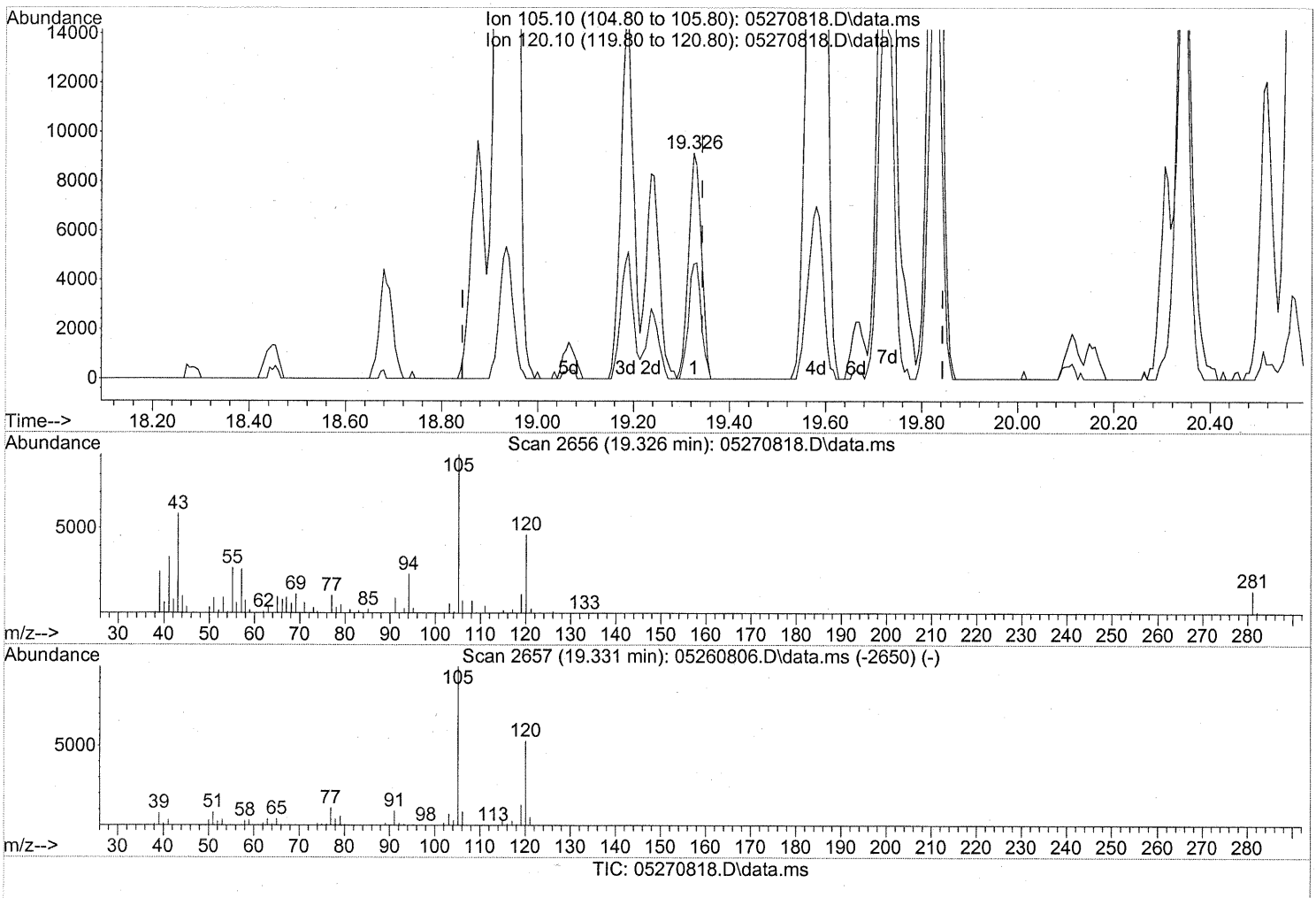
response 16104

Ion	Exp%	Act%
105.10	100	100
120.10	28.60	31.11
0.00	0.00	0.00
0.00	0.00	0.00

503

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

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

19.326min (-0.018) 0.28ng

response 16963

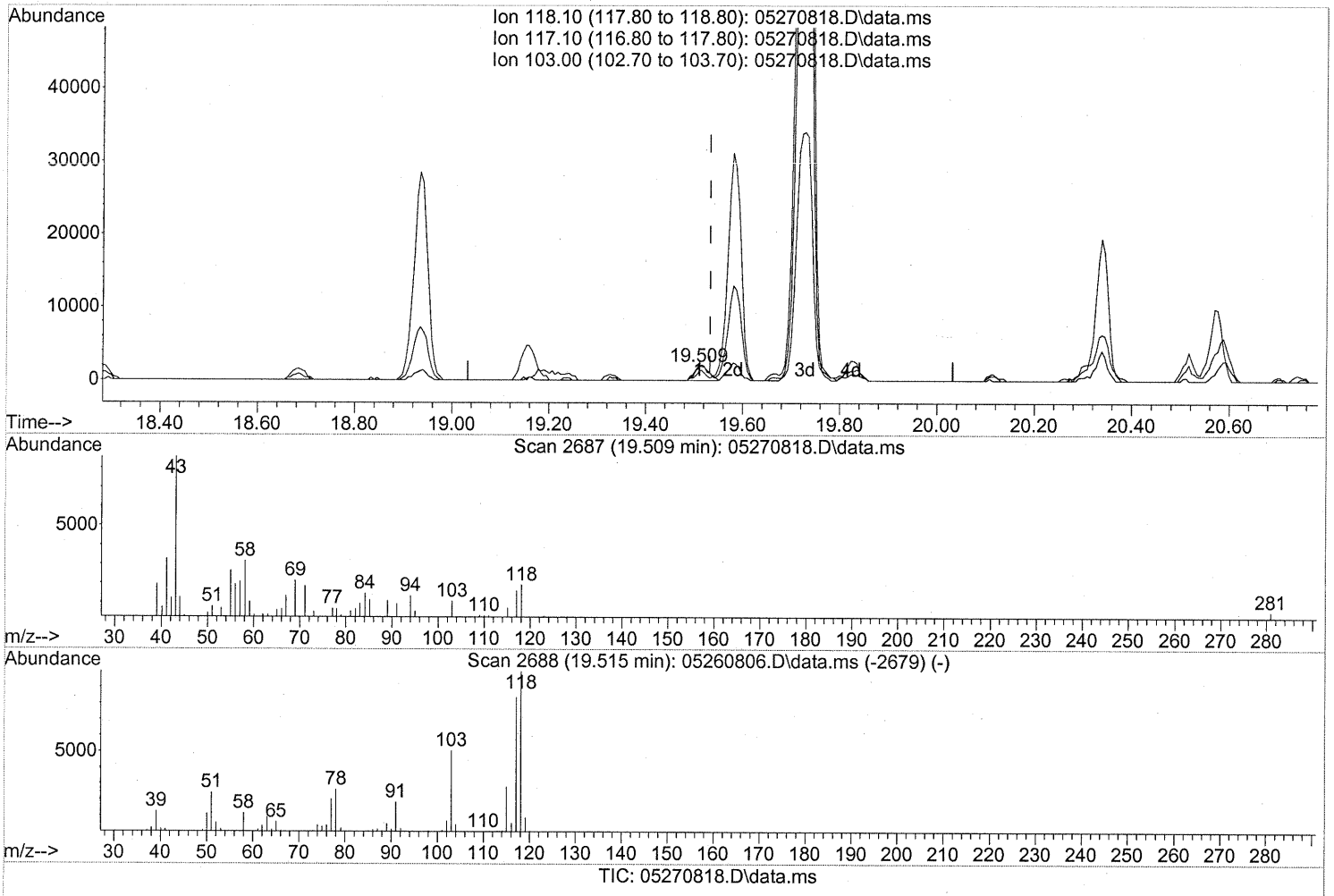
Ion	Exp%	Act%
105.10	100	100
120.10	47.30	50.66
0.00	0.00	0.00
0.00	0.00	0.00

504

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(80) alpha-Methylstyrene (T)

19.509min (-0.024) 0.12ng

response 4053

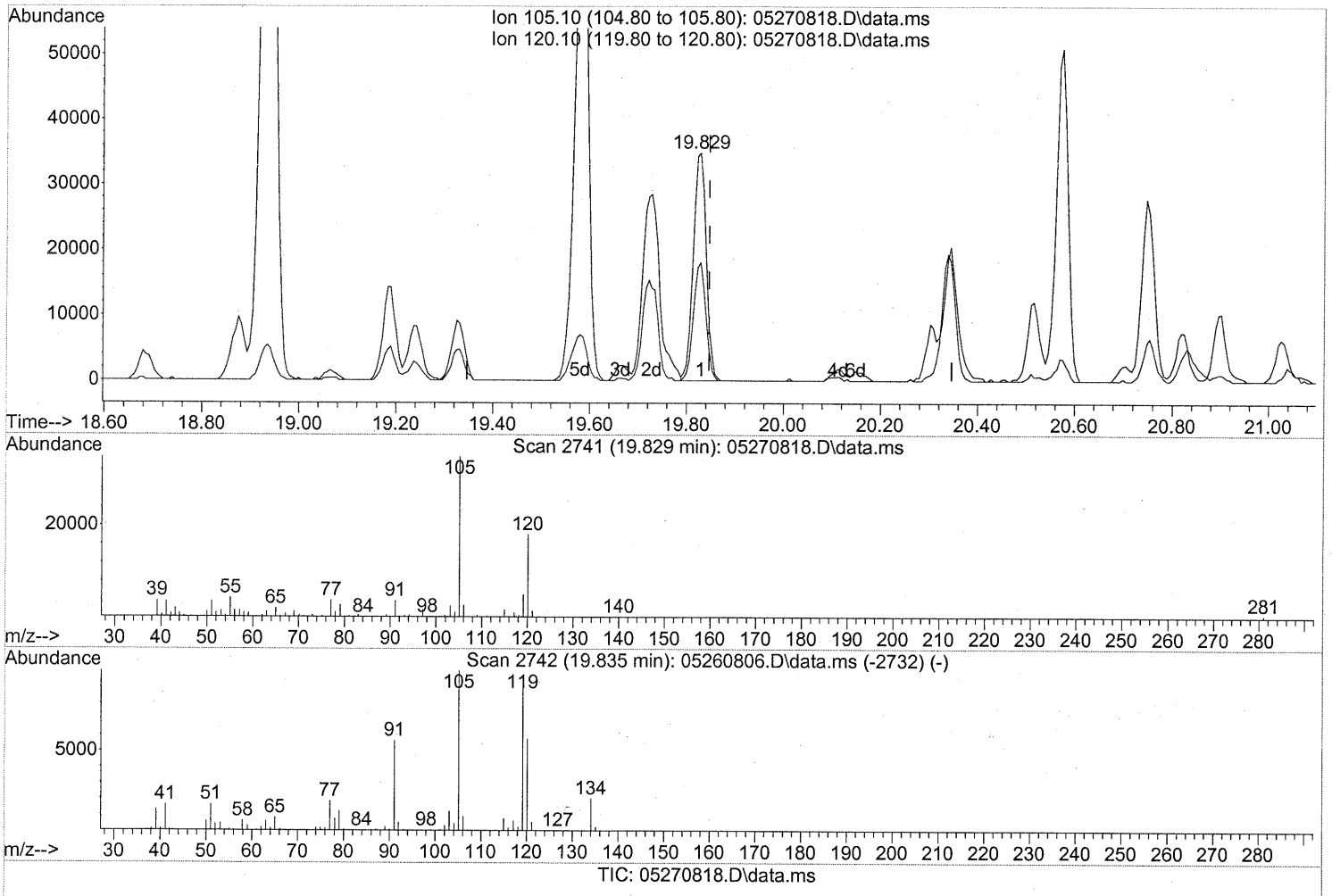
Ion	Exp%	Act%
118.10	100	100
117.10	85.30	94.33
103.00	55.10	48.78
0.00	0.00	0.00

505

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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

19.829min (-0.018) 1.08ng

response 65043

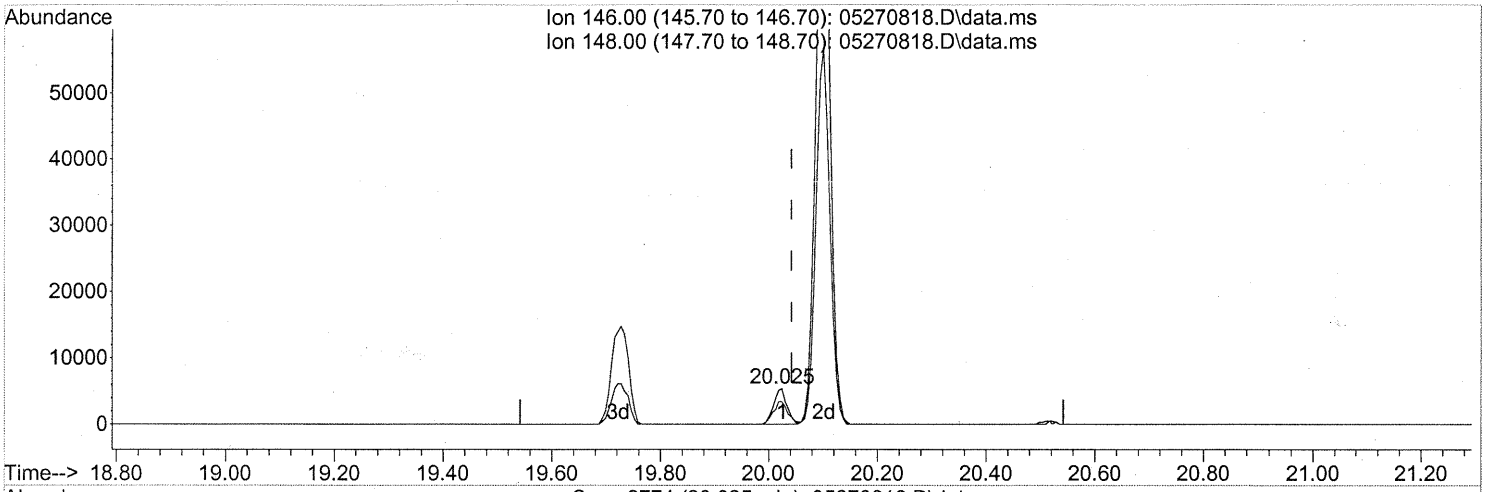
Ion	Exp%	Act%
105.10	100	100
120.10	51.70	49.70
0.00	0.00	0.00
0.00	0.00	0.00

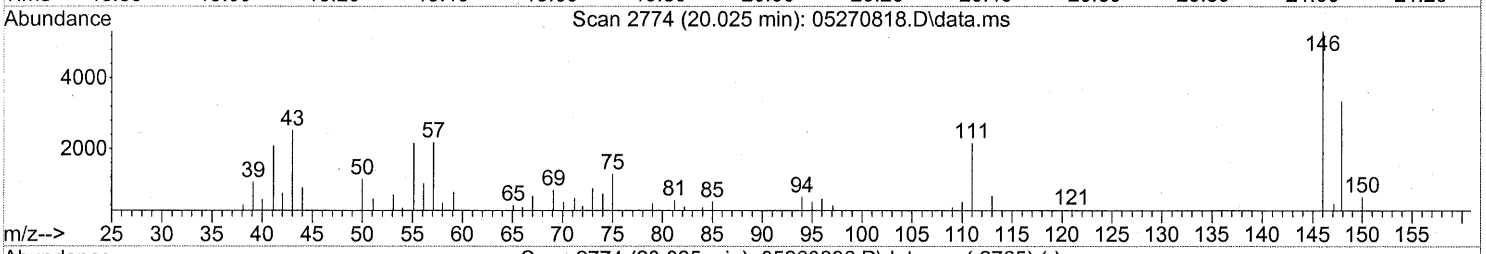
506

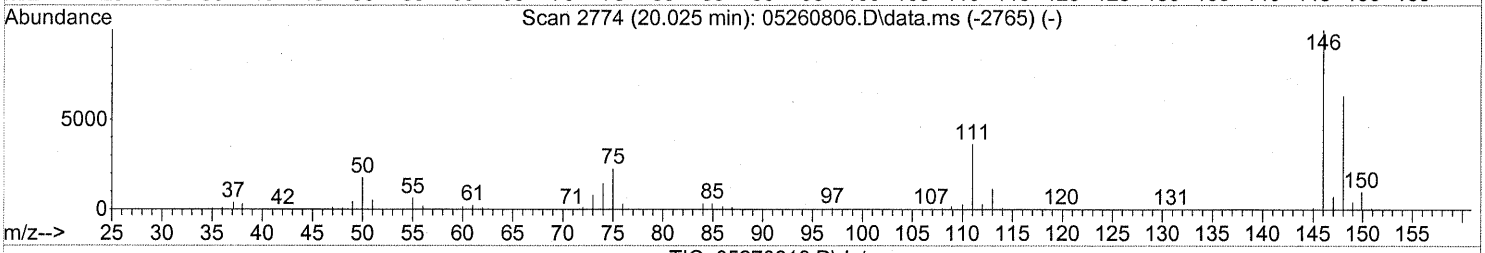
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(85) 1,3-Dichlorobenzene (T)

20.025min (-0.018) 0.24ng

response 9059

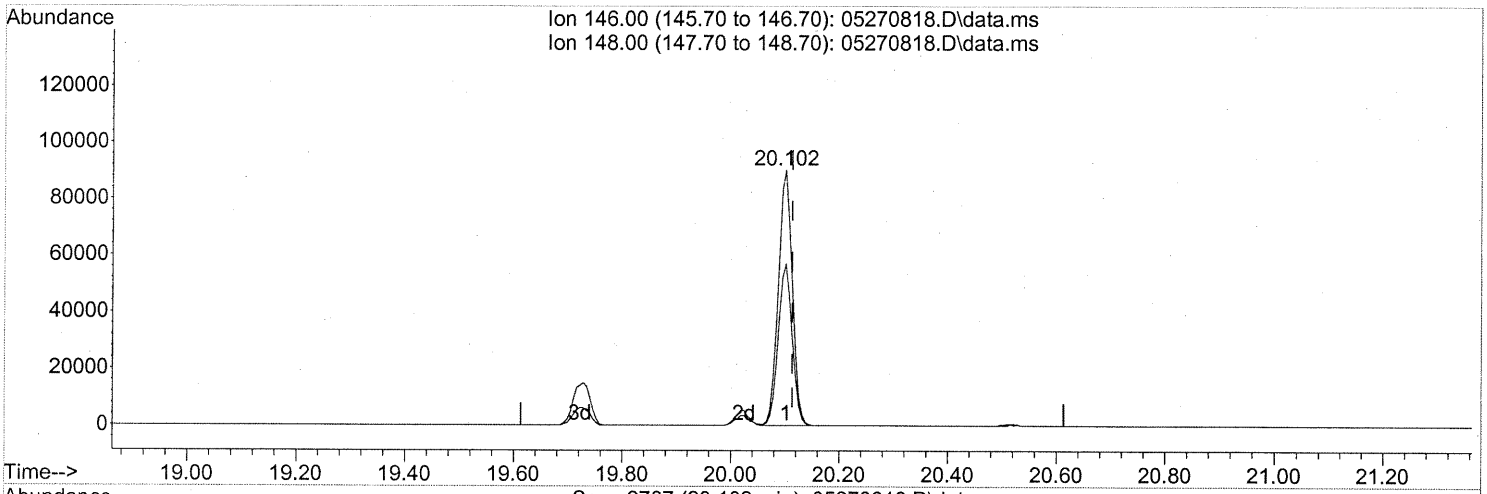
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	68.03
0.00	0.00	0.00
0.00	0.00	0.00

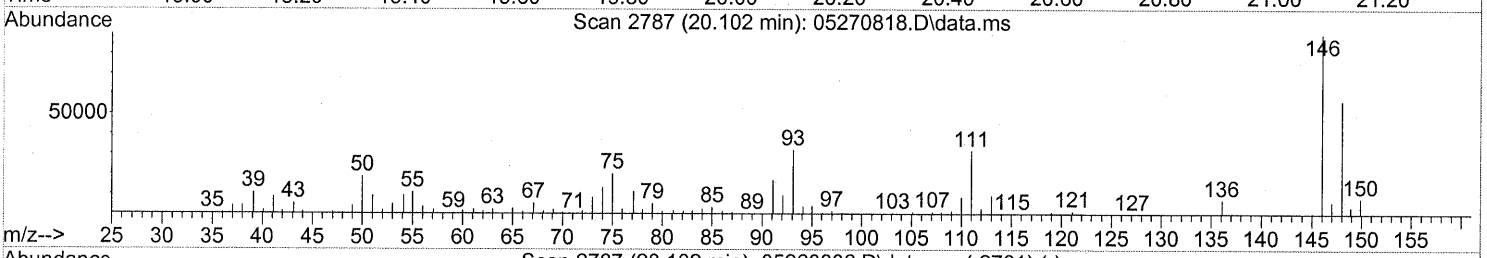
507

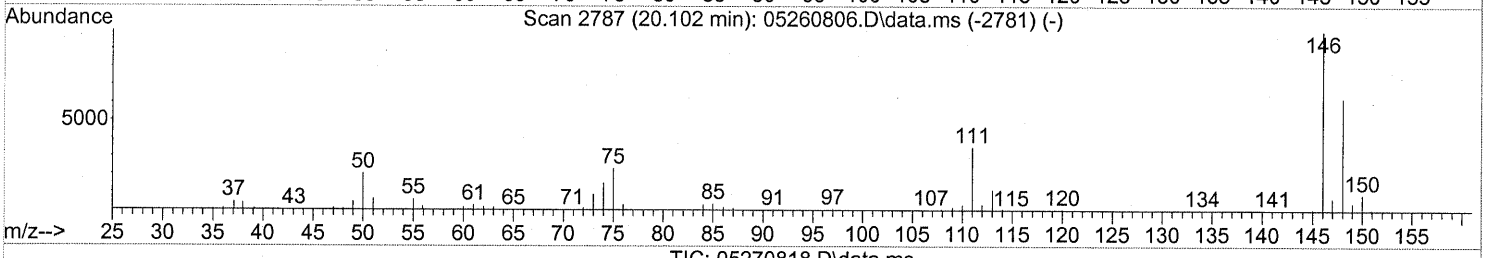
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270818.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 4.32ng

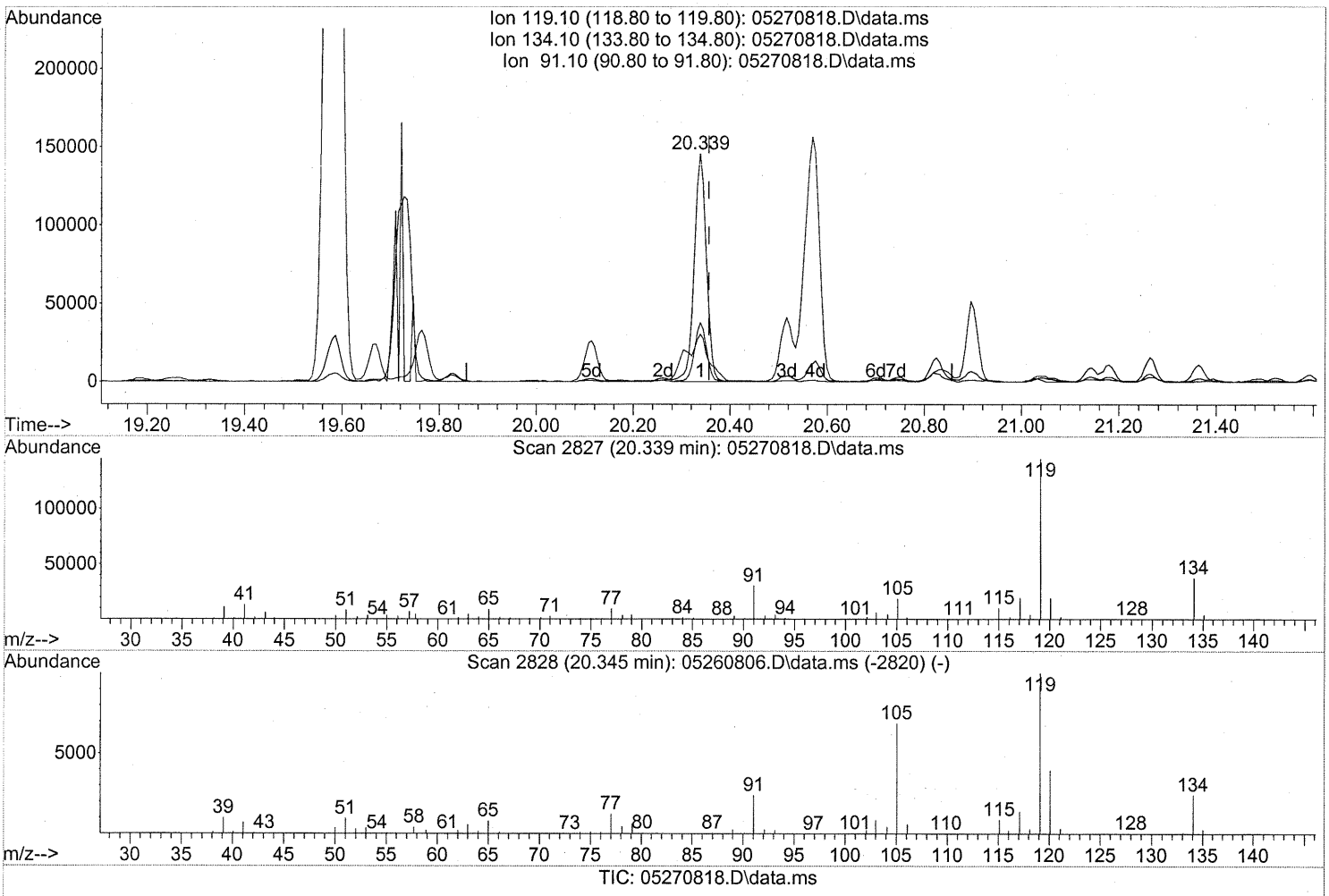
response 160229

Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.11
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(88) p-Isopropyltoluene (T)

20.339min (-0.018) 3.70ng

response 253093

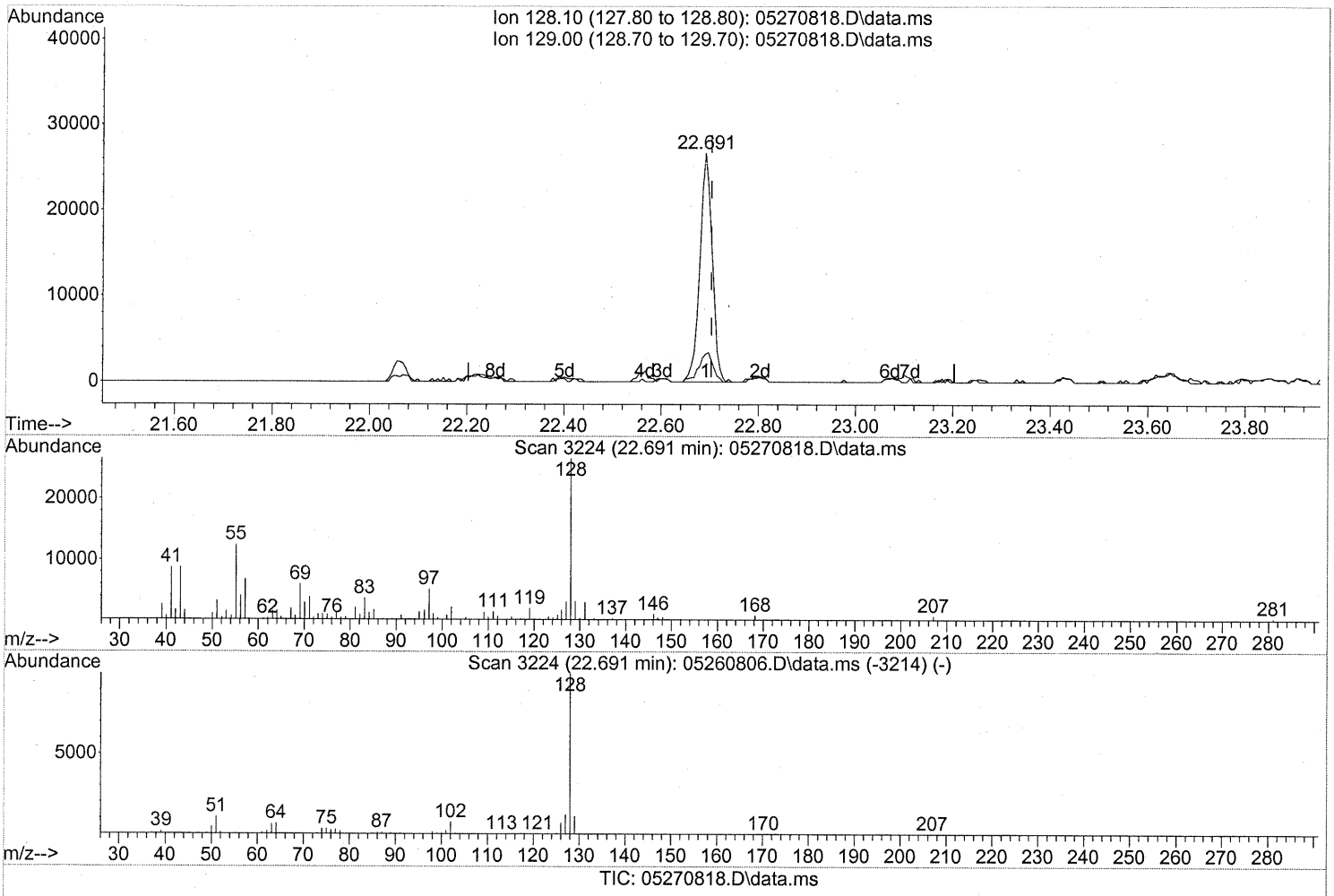
Ion	Exp%	Act%
119.10	100	100
134.10	23.00	25.40
91.10	30.60	23.88
0.00	0.00	0.00

509

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(95) Naphthalene (T)

22.691min (-0.012) 0.53ng

response 46657

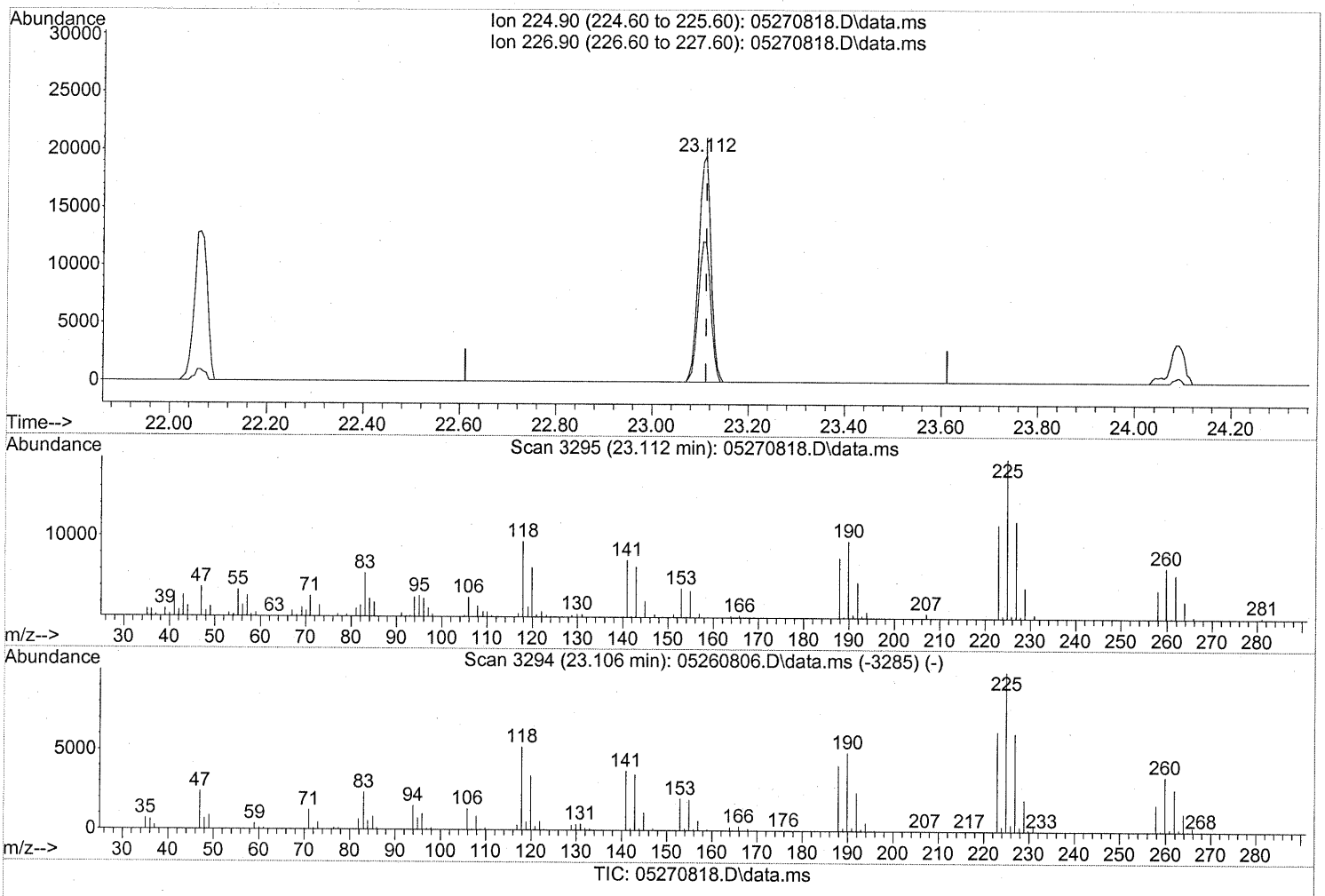
Ion	Exp%	Act%
128.10	100	100
129.00	10.40	14.64
0.00	0.00	0.00
0.00	0.00	0.00

510

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 04:48:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

23.112min (-0.000) 3.28ng

response 34562

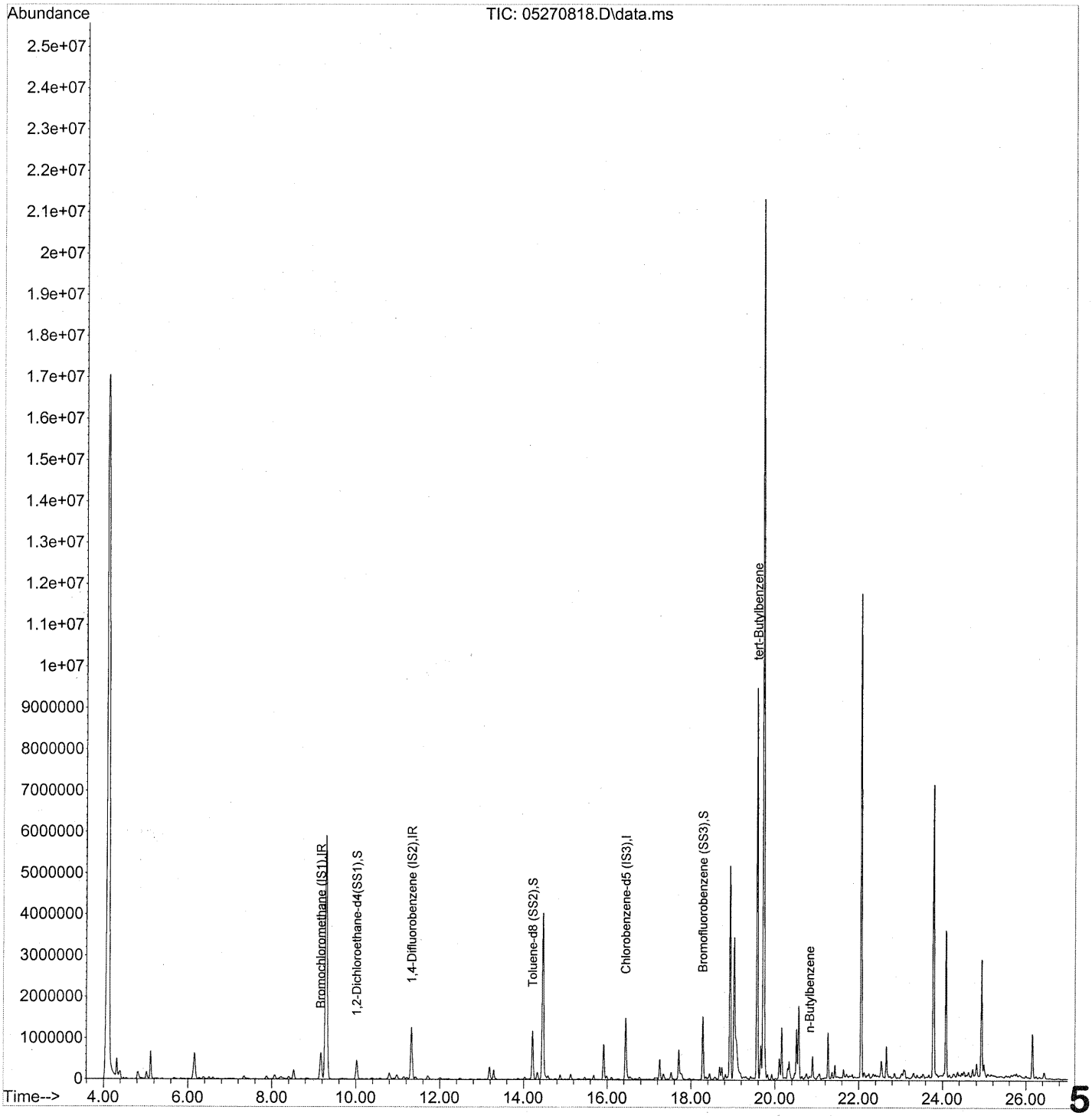
Ion	Exp%	Act%
224.90	100	100
226.90	63.00	62.54
0.00	0.00	0.00
0.00	0.00	0.00

511

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 14:39:33 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



512

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 14:39:33 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.17	130	292426	25.000	ng	-0.08
3) 1,4-Difluorobenzene (IS2)	11.33	114	1419564	25.000	ng	-0.05
4) Chlorobenzene-d5 (IS3)	16.45	82	494463	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.02	65	461246	27.585	ng	-0.07
Spiked Amount 25.000			Recovery = 110.32%			
5) Toluene-d8 (SS2)	14.22	98	953570	18.706	ng	-0.03
Spiked Amount 25.000			Recovery = 74.84%			
6) Bromofluorobenzene (SS3)	18.28	174	539171	31.812	ng	-0.01
Spiked Amount 25.000			Recovery = 127.24%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.59	119	54966	~~0.893~~	ng NR	97
8) n-Butylbenzene	20.83	91	20481	0.349	ng M#	57

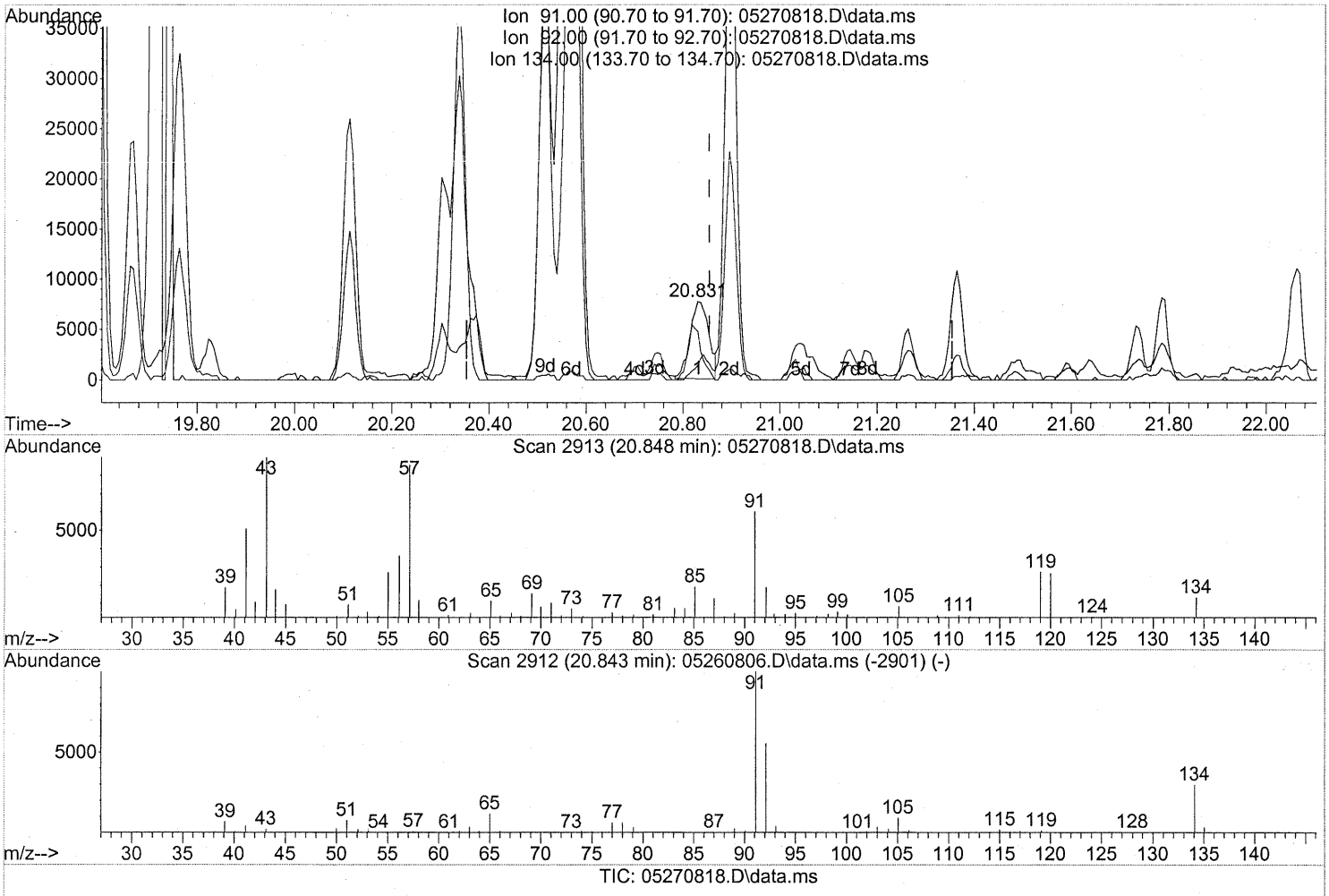
(#) = qualifier out of range (m) = manual integration (+) = signals summed

513

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270818.D
Acq On : 27 May 2008 23:35
Operator : WA
Sample : P0801507-013 (500ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 04 14:39:33 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



TIC: 05270818.D\data.ms

(8) n-Butylbenzene

20.831min (-0.024) 0.35ng

response 20481

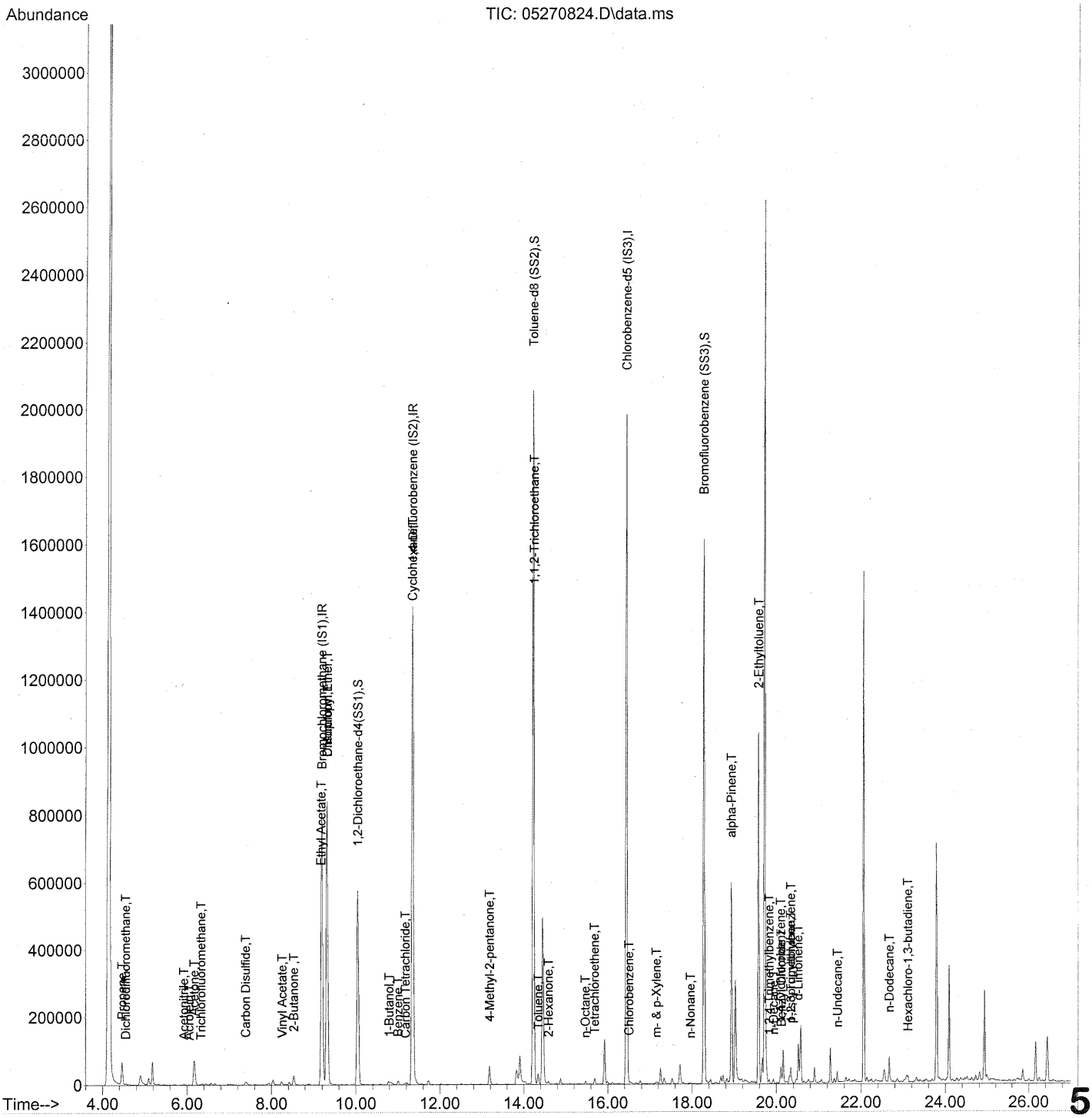
Ion	Exp%	Act%
91.00	100	100
92.00	53.60	24.87#
134.00	23.40	0.00#
0.00	0.00	0.00

S16052608.M Wed Jun 04 14:50:46 2008

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 5:48 am
Operator : WA
Sample : P0801507-013 Dil (50ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 06:52:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



515

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 5:48 am
Operator : WA
Sample : P0801507-013 Dil (50ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 06:52:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	394194	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1641811	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	663545	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	556677	24.697	ng		-0.05
Spiked Amount 25.000			Recovery =	98.80%			
57) Toluene-d8 (SS2)	14.22	98	1672173	24.444	ng		-0.02
Spiked Amount 25.000			Recovery =	97.76%			
73) Bromofluorobenzene (SS3)	18.28	174	588742	25.885	ng		-0.01
Spiked Amount 25.000			Recovery =	103.56%			
Target Compounds							Qvalue
2) Propene	4.46	42	7880	0.258	ng	#	73
3) Dichlorodifluoromethane	4.55	85	2456	0.067	ng	#	93
4) Chloromethane	4.76	50	107	N.D.			
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.08	54	108	N.D.			
8) Bromomethane	0.00	94	0	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	5.81	45	90	N.D.			
11) Acetonitrile	5.92	41	3806	0.064	ng	#	13
12) Acrolein	6.05	56	1762	0.118	ng		99
13) Acetone	6.17	58	45766	2.222	ng	#	67
14) Trichlorofluoromethane	6.33	101	2788	0.081	ng		96
15) Isopropanol	6.48	45	963	N.D.			
16) Acrylonitrile	6.61	53	189	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.97	59	2025	N.D.			
19) Methylene Chloride	7.04	84	788	N.D.			
20) Allyl Chloride	7.14	41	100	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.39	76	16184	0.253	ng		99
23) trans-1,2-Dichloroethene	8.04	61	315	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	8.25	86	853	0.253	ng	#	1
27) 2-Butanone	8.52	72	7290	0.677	ng	#	9
28) cis-1,2-Dichloroethene	9.17	61	771	N.D.			
29) Diisopropyl Ether	9.32	87	92754	6.539	ng	#	1
30) Ethyl Acetate	9.17	61	771	0.103	ng	#	36
31) n-Hexane	9.24	57	1651	N.D.			

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 5:48 am
Operator : WA
Sample : P0801507-013 Dil (50ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 06:52:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	850159	36.548	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	10.79	56	16320	0.604	ng	#	71
41) Benzene	11.00	78	12607	0.182	ng		100
42) Carbon Tetrachloride	11.17	117	5332	0.188	ng		99
43) Cyclohexane	11.34	84	1857	0.069	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	12.20	130	298	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	500	N.D.			
50) Methyl Methacrylate	0.00	100	0	N.D.			
51) n-Heptane	12.51	71	219	N.D.			
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.			
53) 4-Methyl-2-pentanone	13.18	58	19202	0.798	ng		82
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	141349	8.395	ng	#	6
58) Toluene	14.34	91	24949	0.322	ng		97.
59) 2-Hexanone	14.58	43	8643	0.118	ng		89
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.31	43	2606	N.D.			
63) n-Octane	15.46	57	2204	0.094	ng	#	66
64) Tetrachloroethene	15.69	166	6839	0.298	ng		99
65) Chlorobenzene	16.50	112	2971	0.054	ng		96
66) Ethylbenzene	16.94	91	1584	N.D.			
67) m- & p-Xylene	17.15	91	5586	0.096	ng		96
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	692	N.D.			
70) o-Xylene	17.72	91	2470	N.D.			
71) n-Nonane	17.96	43	3977	0.064	ng	#	74
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.29	105	790	N.D.			
75) alpha-Pinene	18.93	93	277756	6.501	ng		92
76) n-Propylbenzene	19.06	91	1245	N.D.			
77) 3-Ethyltoluene	19.19	105	3111	N.D.			
78) 4-Ethyltoluene	19.25	105	1834	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	1640	N.D.			

517

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 5:48 am
Operator : WA
Sample : P0801507-013 Dil (50ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 06:52:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

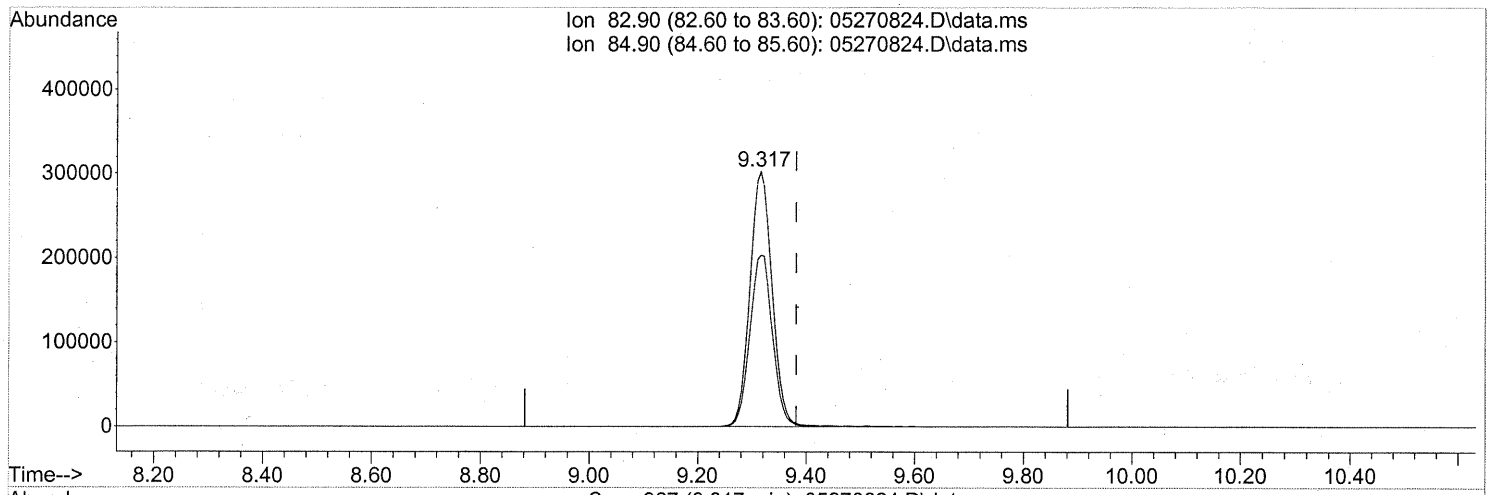
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	503	N.D.		
81) 2-Ethyltoluene	19.58	105	16000	0.165 ng	#	61
82) 1,2,4-Trimethylbenzene	19.83	105	6497	0.080 ng		97
83) n-Decane	19.93	57	5188	0.091 ng		79
84) Benzyl Chloride	20.11	91	4528	0.072 ng	#	57
85) 1,3-Dichlorobenzene	20.02	146	983	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	17176	0.345 ng		100
87) sec-Butylbenzene	20.16	105	259	N.D.		
88) p-Isopropyltoluene	20.34	119	26669	0.291 ng		95
89) 1,2,3-Trimethylbenzene	20.34	105	4345	0.056 ng	#	26
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.		
91) d-Limonene	20.51	68	27286	1.094 ng		85
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.		
93) n-Undecane	21.43	57	13548	0.226 ng		82
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	5497	N.D.		
96) n-Dodecane	22.66	57	26784	0.458 ng		81
97) Hexachloro-1,3-butadiene	23.11	225	3545	0.251 ng		98

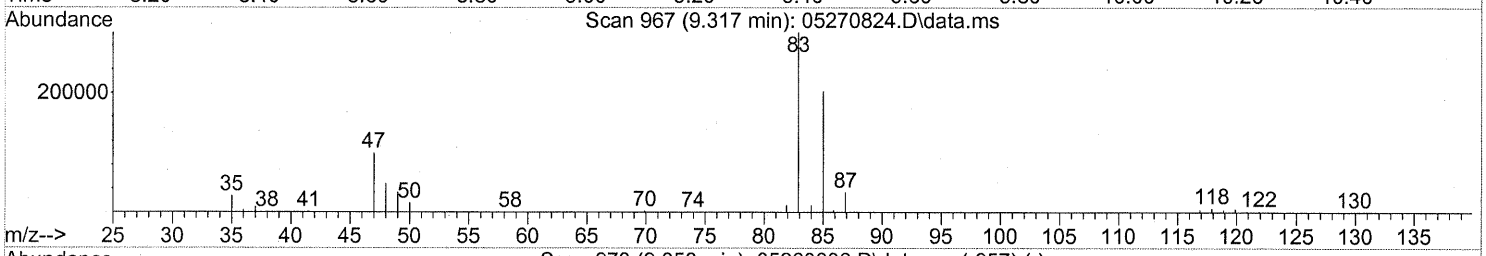
(#) = qualifier out of range (m) = manual integration (+) = signals summed

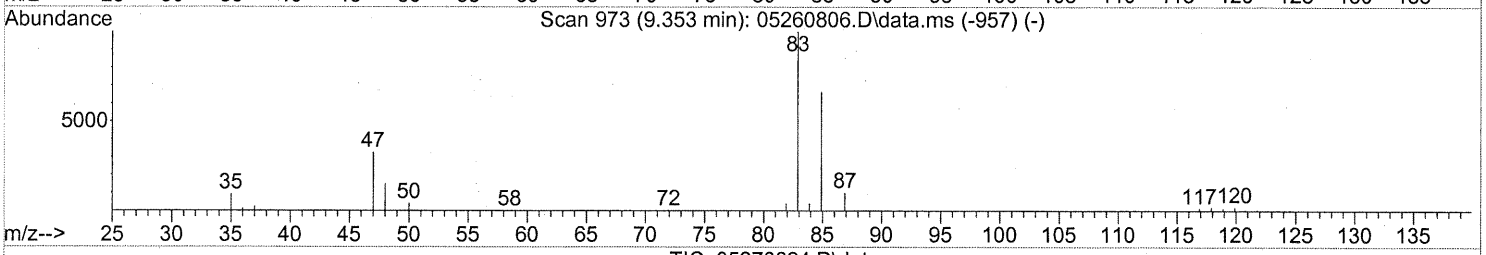
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270824.D
Acq On : 28 May 2008 5:48
Operator : WA
Sample : P0801507-013 Dil (50ml)
Misc : ENSR SG15B-05 (-3.5, 3.5)
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 28 06:52:03 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270824.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 36.55ng

response 850159

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.46
0.00	0.00	0.00
0.00	0.00	0.00

519

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG14B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00051

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.3**	0.82	0.082	**0.46**	0.16	0.016	
74-87-3	**Chloromethane**	**0.24**	0.16	0.082	**0.11**	0.079	0.039	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	0.82	0.082	ND	0.12	0.012	
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**	**0.31**	0.16	0.082	**0.12**	0.062	0.031	
64-17-5	**Ethanol**	**4.4**	8.2	0.082	**2.3**	4.3	0.043	**J, B**
67-64-1	**Acetone**	**48**	8.2	0.12	**20**	3.4	0.050	**B**
75-69-4	**Trichlorofluoromethane**	**2.9**	0.16	0.082	**0.51**	0.029	0.015	
107-13-1	**Acrylonitrile**	**0.26**	0.82	0.11	**0.12**	0.38	0.053	**J**
75-35-4	**1,1-Dichloroethene**	**0.10**	0.16	0.082	**0.026**	0.041	0.021	**J**
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.54**	0.82	0.12	**0.18**	0.27	0.040	**J**
75-09-2	**Methylene Chloride**	**0.97**	0.82	0.082	**0.28**	0.23	0.023	**B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.16	0.082	ND	0.052	0.026	
76-13-1	**Trichlorotrifluoroethane**	**0.52**	0.16	0.091	**0.069**	0.021	0.012	
75-15-0	**Carbon Disulfide**	**2.7**	0.82	0.20	**0.86**	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**	**2.3**	8.2	0.26	**0.64**	2.3	0.074	**J, B**
78-93-3	**2-Butanone (MEK)**	**13**	0.82	0.082	**4.5**	0.28	0.028	**B**
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**	**1,000**	0.16	0.096	**200**	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.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG14B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-014

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00051

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)
0.10 Liter(s)

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	**Benzene**	**4.4**	0.16	0.082	**1.4**	0.051	0.026	**B**
56-23-5	**Carbon Tetrachloride**	**15**	0.16	0.082	**2.3**	0.026	0.013	
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**	**5.8**	0.16	0.082	**0.86**	0.024	0.012	
79-01-6	**Trichloroethene**	**1.0**	0.16	0.082	**0.19**	0.030	0.015	
123-91-1	1,4-Dioxane	ND	0.82	0.099	ND	0.23	0.028	
80-62-6	Methyl Methacrylate	ND	0.82	0.12	ND	0.20	0.030	
142-82-5	**n-Heptane**	**2.6**	0.82	0.10	**0.64**	0.20	0.025	
10061-01-5	cis-1,3-Dichloropropene	ND	0.82	0.085	ND	0.18	0.019	
108-10-1	**4-Methyl-2-pentanone**	**18**	0.82	0.091	**4.4**	0.20	0.022	
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	**Toluene**	**31**	0.82	0.082	**8.3**	0.22	0.022	
591-78-6	**2-Hexanone**	**2.3**	0.82	0.12	**0.57**	0.20	0.030	
124-48-1	**Dibromochloromethane**	**0.34**	0.16	0.11	**0.039**	0.019	0.013	
106-93-4	1,2-Dibromoethane	ND	0.16	0.088	ND	0.021	0.011	
111-65-9	**n-Octane**	**93**	0.82	0.082	**20**	0.17	0.017	
127-18-4	**Tetrachloroethene**	**16**	0.16	0.082	**2.4**	0.024	0.012	
108-90-7	**Chlorobenzene**	**0.66**	0.16	0.083	**0.14**	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.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG14B-05** CAS Sample ID: P0801507-014
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes: 0.10 Liter(s)
Container ID: SC00051

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

Canister Dilution Factor: 1.63

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**6.3**	0.82	0.10	**1.5**	0.19	0.023	
179601-23-1	**m,p-Xylenes**	**28**	0.82	0.21	**6.4**	0.19	0.049	
75-25-2	**Bromoform**	**0.43**	0.82	0.12	**0.041**	0.079	0.012	**J**
100-42-5	**Styrene**	**0.47**	0.82	0.12	**0.11**	0.19	0.029	**J**
95-47-6	**o-Xylene**	**8.8**	0.82	0.10	**2.0**	0.19	0.024	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.16	0.10	ND	0.024	0.015	
98-82-8	**Cumene**	**0.56**	0.82	0.091	**0.11**	0.17	0.019	**J**
103-65-1	**n-Propylbenzene**	**1.1**	0.82	0.085	**0.22**	0.17	0.017	
622-96-8	**4-Ethyltoluene**	**1.8**	0.82	0.093	**0.37**	0.17	0.019	
108-67-8	**1,3,5-Trimethylbenzene**	**2.4**	0.82	0.098	**0.49**	0.17	0.020	
98-83-9	**alpha-Methylstyrene**	**0.52**	0.82	0.12	**0.11**	0.17	0.025	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**5.7**	0.82	0.11	**1.2**	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**	**13**	0.16	0.091	**2.2**	0.027	0.015	
135-98-8	**sec-Butylbenzene**	**0.15**	0.82	0.095	**0.026**	0.15	0.017	**J**
99-87-6	**4-Isopropyltoluene (p-Cymene)**	**2.9**	0.82	0.11	**0.53**	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	ND	0.16	0.12	ND	0.022	0.017	
91-20-3	**Naphthalene**	**1.3**	0.33	0.12	**0.25**	0.062	0.023	
87-68-3	**Hexachlorobutadiene**	**10**	0.16	0.15	**0.97**	0.015	0.014	
98-06-6	tert-Butylbenzene	ND	0.33	0.082	ND	0.059	0.015	
104-51-8	**n-Butylbenzene**	**0.71**	0.33	0.082	**0.13**	0.059	0.015	**M**

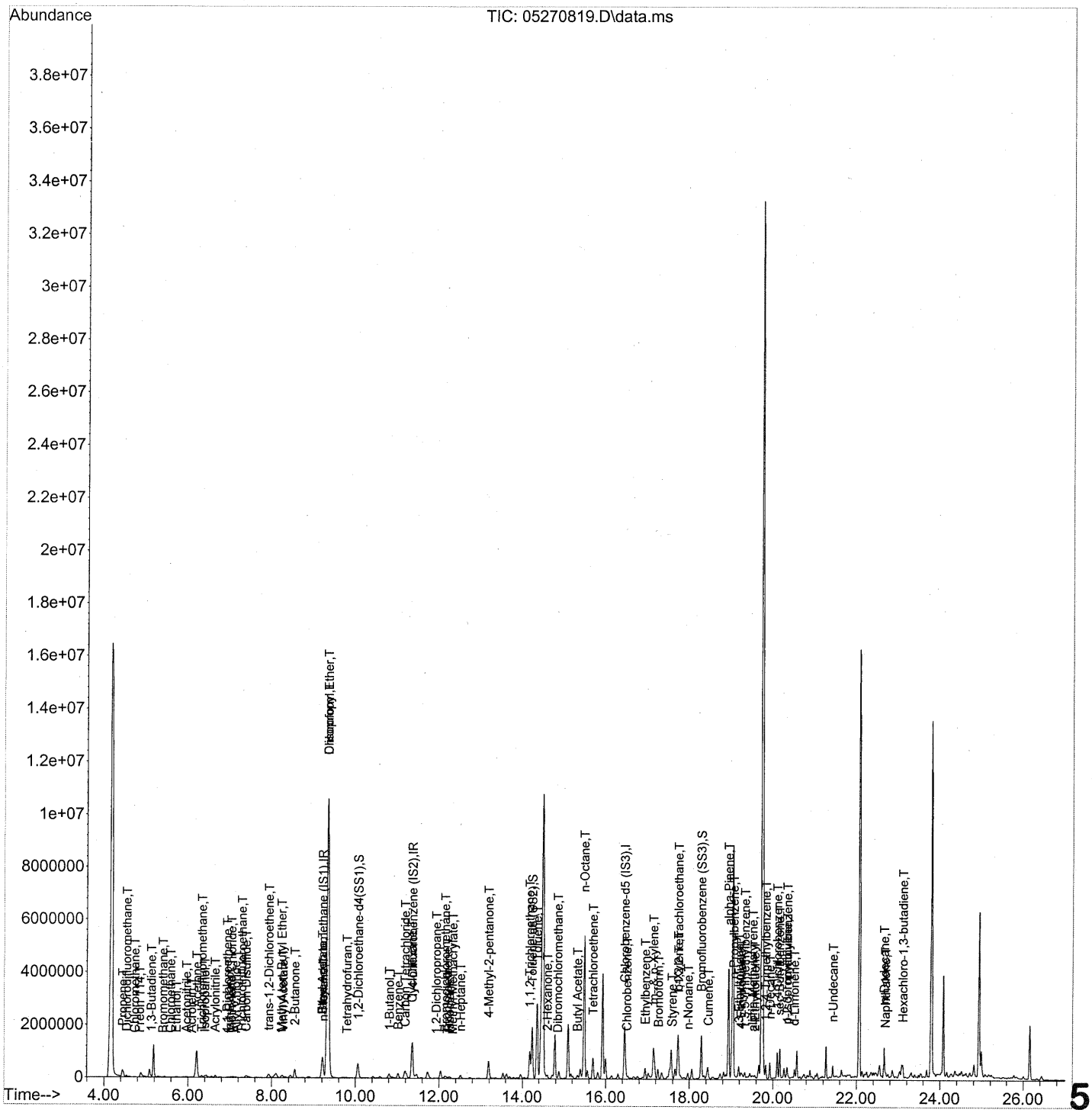
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.
J = The analyte was positively identified below the method reporting limit; the associated 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: 6/5/08

Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 08:31:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	379532	25.000 ng		-0.03
37) 1,4-Difluorobenzene (IS2)	11.36	114	1577066	25.000 ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	651799	25.000 ng		0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	10.06	65	542292	24.988 ng		-0.03
Spiked Amount 25.000			Recovery =	99.96%		
57) Toluene-d8 (SS2)	14.24	98	1621346	24.128 ng		-0.01
Spiked Amount 25.000			Recovery =	96.52%		
73) Bromofluorobenzene (SS3)	18.29	174	573066	25.650 ng		0.00
Spiked Amount 25.000			Recovery =	102.60%		
Target Compounds						Qvalue
2) Propene	4.44	42	122172	4.158 ng		91
3) Dichlorodifluoromethane	4.54	85	49350	1.389 ng		100
4) Chloromethane	4.74	50	6470	0.145 ng		96
5) Freon 114	4.85	135	1041	~~0.052 ng~~	#NR	41
6) Vinyl Chloride	4.97	62	90	N.D.		
7) 1,3-Butadiene	5.12	54	18988	0.733 ng	#	27
8) Bromomethane	5.41	94	1097	~~0.075 ng~~	UR#	3
9) Chloroethane	5.58	64	2795	0.190 ng		90
10) Ethanol	5.72	45	53258m	2.672 ng		
11) Acetonitrile	5.96	41	53428	0.930 ng		93
12) Acrolein	6.09	56	27440	1.909 ng	#	63
13) Acetone	6.21	58	578805	29.187 ng	#	77
14) Trichlorofluoromethane	6.33	101	58519	1.759 ng		97
15) Isopropanol	6.40	45	124280	2.080 ng		93
16) Acrylonitrile	6.64	53	5745	0.159 ng		97
17) 1,1-Dichloroethene	6.93	96	974	0.063 ng	#	1
18) tert-Butanol	6.99	59	18387m	0.330 ng		
19) Methylene Chloride	7.04	84	9084	0.594 ng	#	73
20) Allyl Chloride	7.14	41	5092	~~0.144 ng~~	UR#	45
21) Trichlorotrifluoroethane	7.29	151	5203	0.322 ng		87
22) Carbon Disulfide	7.39	76	100960	1.641 ng		99
23) trans-1,2-Dichloroethene	7.93	61	2095	~~0.069 ng~~	UR#	19
24) 1,1-Dichloroethane	8.18	63	1264	N.D.		
25) Methyl tert-Butyl Ether	8.23	73	4821	~~0.102 ng~~	UR #	53
26) Vinyl Acetate	8.27	86	4503	1.386 ng	#	37
27) 2-Butanone	8.55	72	85110	8.209 ng	#	22
28) cis-1,2-Dichloroethene	9.03	61	183	N.D.		
29) Diisopropyl Ether	9.34	87	1505454	~~110.232 ng~~	UR#	1
30) Ethyl Acetate	9.20	61	19664	2.718 ng		89
31) n-Hexane	9.23	57	28659	0.663 ng		92

524

6/4/08

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Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.34	83	14048656	~~627.273 ng~~	Se dil	96
34) Tetrahydrofuran	9.80	72	5422	0.556 ng	#	47
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	10.19	62	1230	N.D. ✓		
38) 1,1,1-Trichloroethane	10.49	97	1001	N.D. ✓		
39) Isopropyl Acetate	10.78	61	219	N.D.		
40) 1-Butanol	10.82	56	177969	6.856 ng	#	68
41) Benzene	11.02	78	178816	2.689 ng		99
42) Carbon Tetrachloride	11.19	117	244659	8.971 ng		99
43) Cyclohexane	11.35	84	12869	0.495 ng	#	1
44) tert-Amyl Methyl Ether	11.60	73	106	N.D. ✓		
45) 1,2-Dichloropropane	11.94	63	1154	~~0.059 ng~~ NR		98
46) Bromodichloromethane	12.15	83	69037	3.532 ng		96
47) Trichloroethene	12.20	130	13041	0.630 ng		99
48) 1,4-Dioxane	12.15	88	351	N.D. ✓		
49) Isooctane	12.26	57	62869	0.591 ng		71
50) Methyl Methacrylate	12.33	100	907	~~0.127 ng~~ NR	#	1
51) n-Heptane	12.52	71	25510	1.607 ng	#	58
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	13.19	58	252898	10.939 ng		83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	14.18	97	1243	~~0.077 ng~~ NR	#	1
58) Toluene	14.35	91	1461913	19.179 ng		99
59) 2-Hexanone	14.60	43	102971	1.430 ng		77
60) Dibromochloromethane	14.85	129	4639	0.206 ng		99
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.32	43	44347	0.613 ng	#	29
63) n-Octane	15.49	57	1320046	57.272 ng		95
64) Tetrachloroethene	15.70	166	227946	10.110 ng		98
65) Chlorobenzene	16.50	112	21858	0.402 ng		78
66) Ethylbenzene	16.94	91	335103	3.868 ng		93
67) m- & p-Xylene	17.14	91	982619	17.118 ng		92
68) Bromoform	17.26	173	3418	0.262 ng		98
69) Styrene	17.59	104	16061	0.290 ng		99
70) o-Xylene	17.73	91	333449	5.427 ng		92
71) n-Nonane	17.97	43	114072	1.881 ng		91
72) 1,1,2,2-Tetrachloroethane	17.74	83	2312	~~0.091 ng~~ NR	#	1
74) Cumene	18.45	105	30977	0.346 ng		97
75) alpha-Pinene	18.94	93	1967878	46.891 ng		92
76) n-Propylbenzene	19.06	91	68515	0.659 ng	#	84
77) 3-Ethyltoluene	19.19	105	222654	2.269 ng		93
78) 4-Ethyltoluene	19.24	105	99070	1.119 ng		93
79) 1,3,5-Trimethylbenzene	19.33	105	117091	1.492 ng		88

525

6/4/08

Quantitation Report (QT Reviewed)

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ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 08:31:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	14223	0.322 ng	#	65
81) 2-Ethyltoluene	19.57	105	80290	0.844 ng		88
82) 1,2,4-Trimethylbenzene	19.83	105	276191	3.475 ng		97
83) n-Decane	19.93	57	246747	4.386 ng		82
84) Benzyl Chloride	19.99	91	3060	N.D. ✓		
85) 1,3-Dichlorobenzene	20.03	146	1796	N.D. ✓		
86) 1,4-Dichlorobenzene	20.10	146	397262	8.127 ng		99
87) sec-Butylbenzene	20.15	105	9174	0.089 ng		79
88) p-Isopropyltoluene	20.34	119	161629	1.794 ng		97
89) 1,2,3-Trimethylbenzene	20.34	105	100510	1.317 ng		85
90) 1,2-Dichlorobenzene	20.52	146	1087	N.D. ✓		
91) d-Limonene	20.52	68	76219	3.112 ng		86
92) 1,2-Dibromo-3-Chloropr...	21.17	157	92	N.D. ✓		
93) n-Undecane	21.43	57	197851	3.353 ng		84
94) 1,2,4-Trichlorobenzene	22.85	184	321	N.D. ✓		
95) Naphthalene	22.69	128	93810	0.812 ng		88
96) n-Dodecane	22.66	57	420220	7.310 ng		76
97) Hexachloro-1,3-butadiene	23.11	225	88219	6.351 ng		99

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

Quantitation Report (Qedit)

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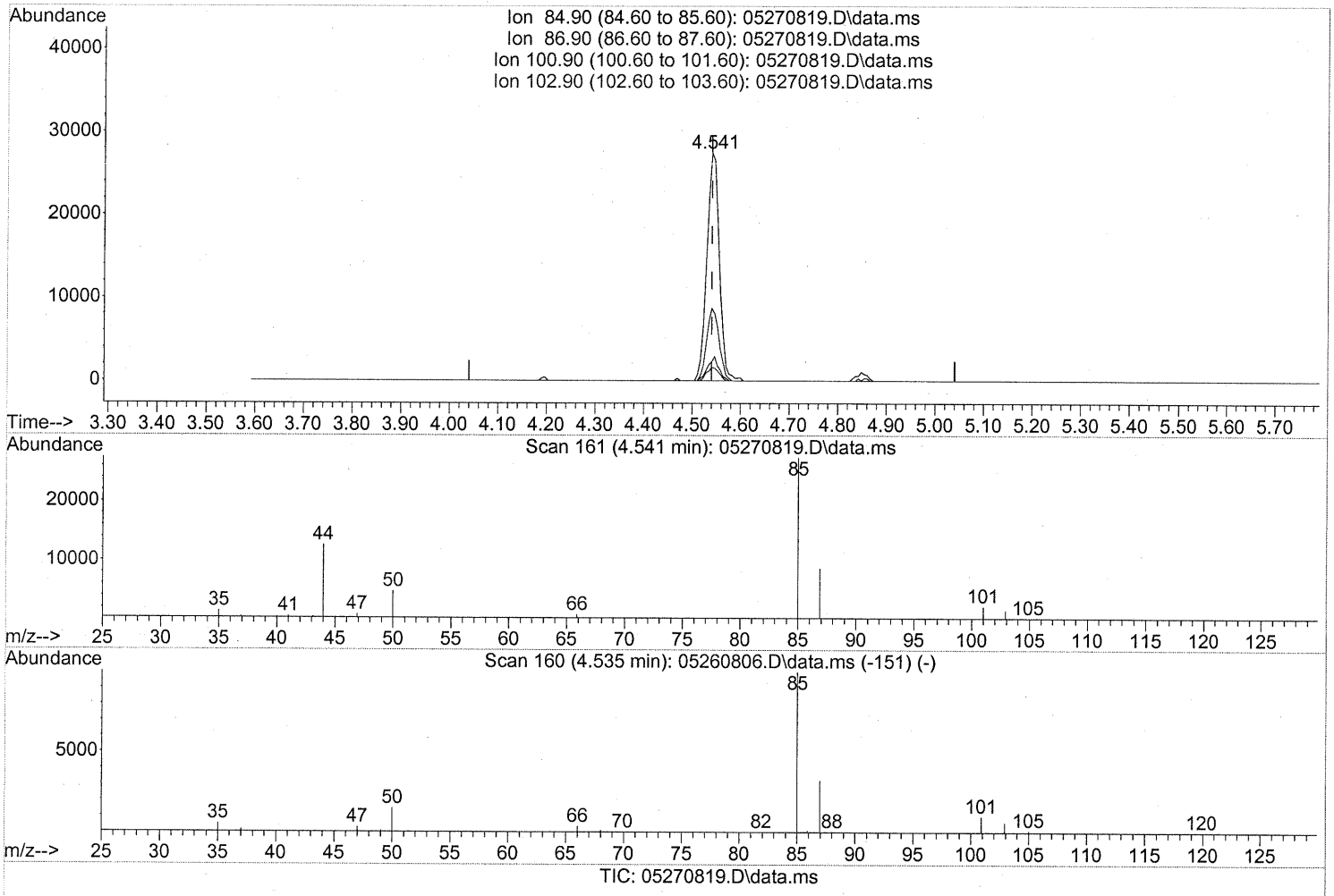
Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(3) Dichlorodifluoromethane (T)

4.541min (-0.000) 1.39ng

response 49350

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	31.50
100.90	8.40	9.26
102.90	5.50	5.48

527

Quantitation Report (Qedit)

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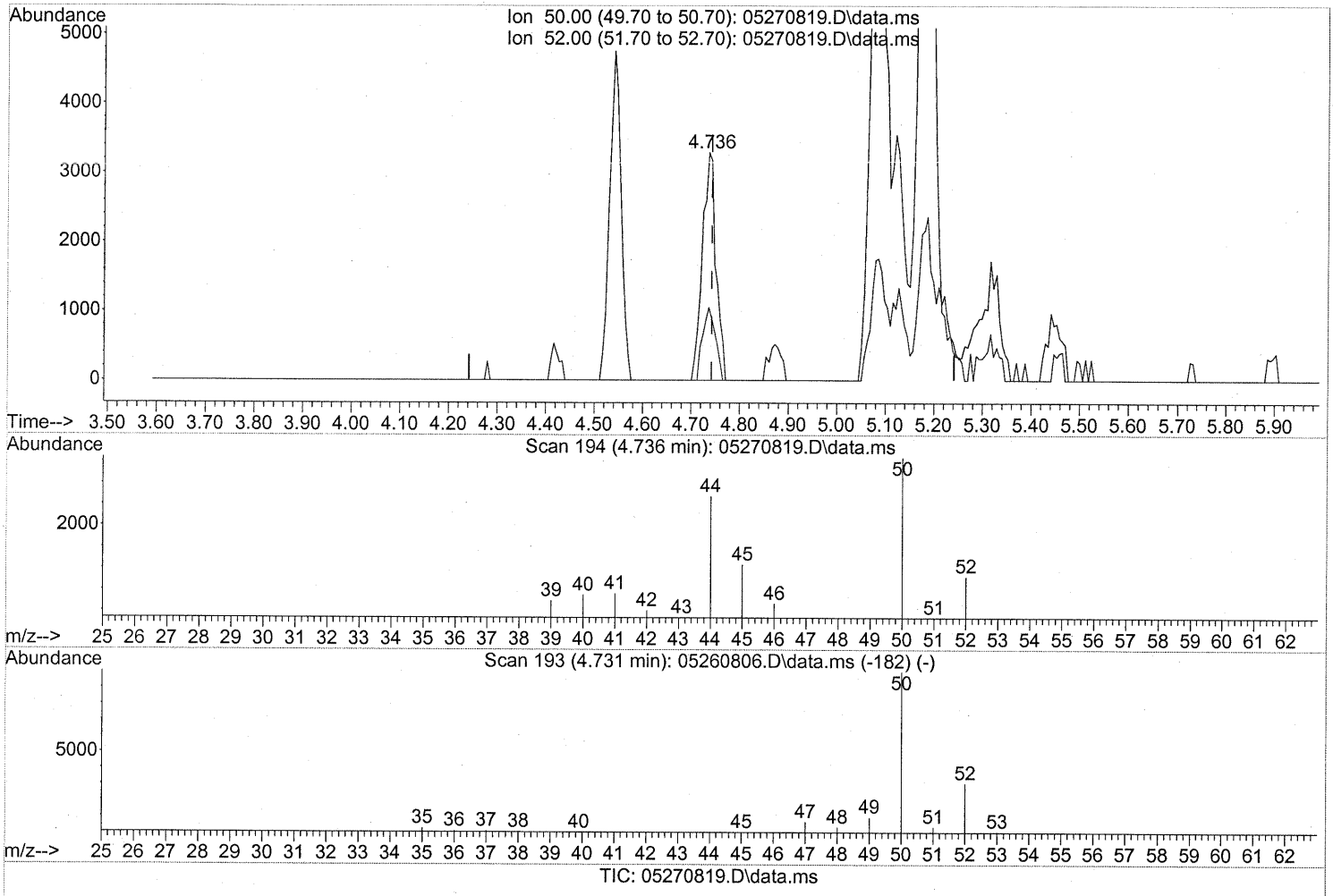

TIC: 05270819.D\data.ms

(4) Chloromethane (T)

4.736min (-0.006) 0.14ng

response 6470

Ion	Exp%	Act%
50.00	100	100
52.00	31.80	29.81
0.00	0.00	0.00
0.00	0.00	0.00

528

Quantitation Report (Qedit)

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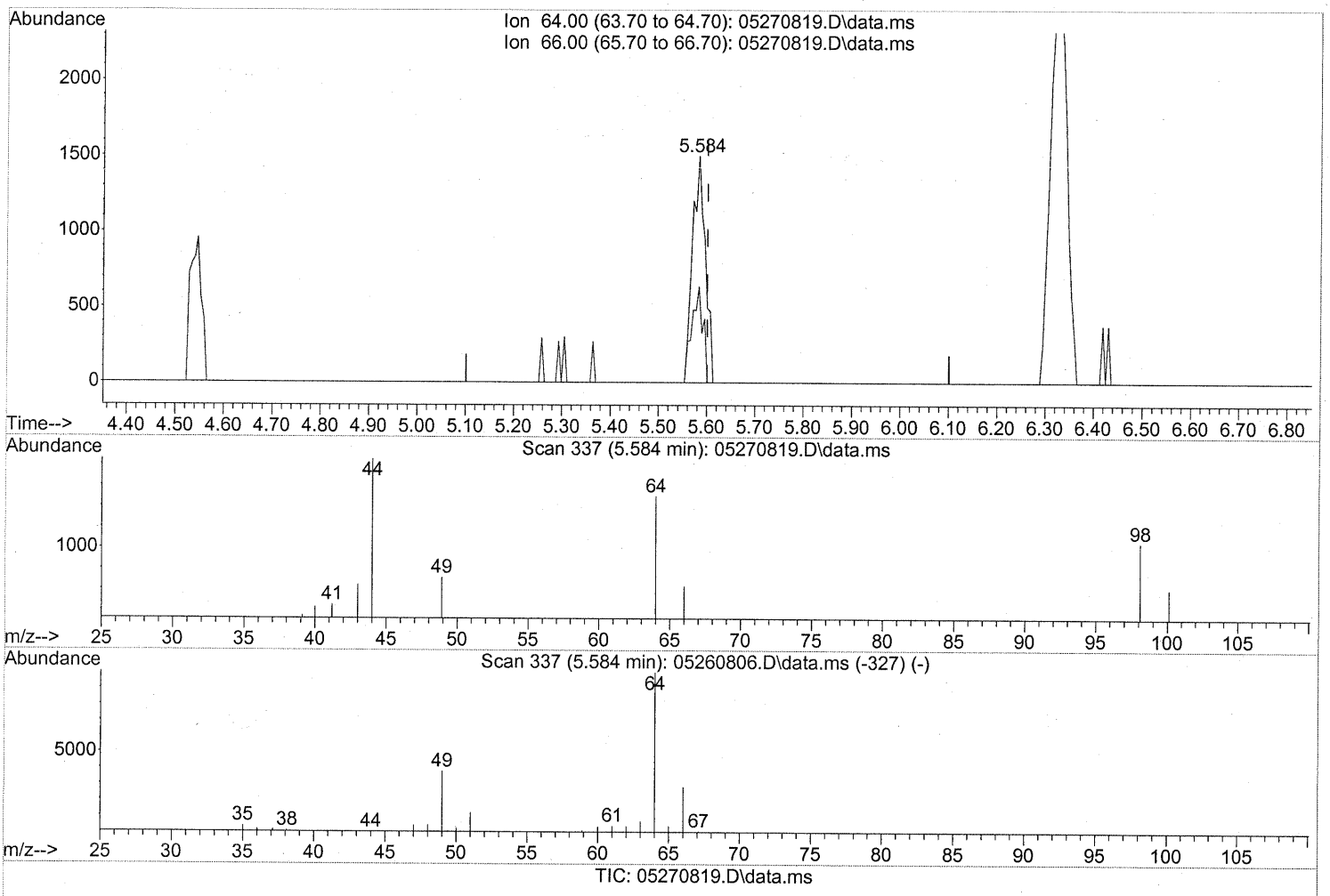

TIC: 05270819.D\data.ms

(9) Chloroethane (T)

5.584min (-0.018) 0.19ng

response 2795

Ion	Exp%	Act%
64.00	100	100
66.00	31.40	36.74
0.00	0.00	0.00
0.00	0.00	0.00

529

Quantitation Report (Qedit)

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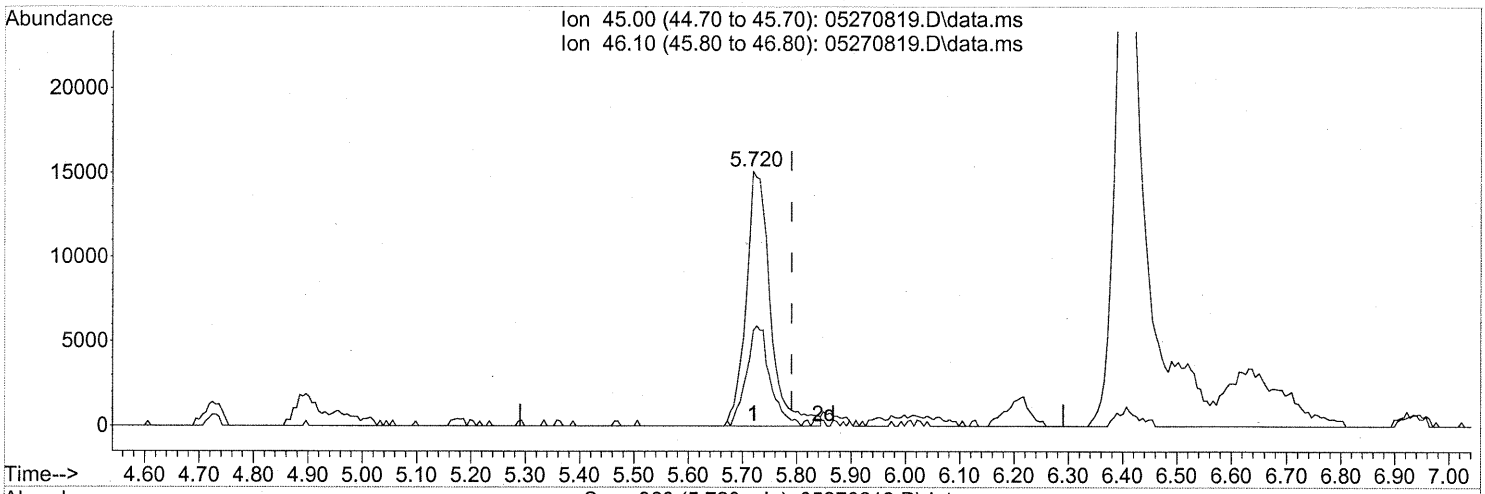

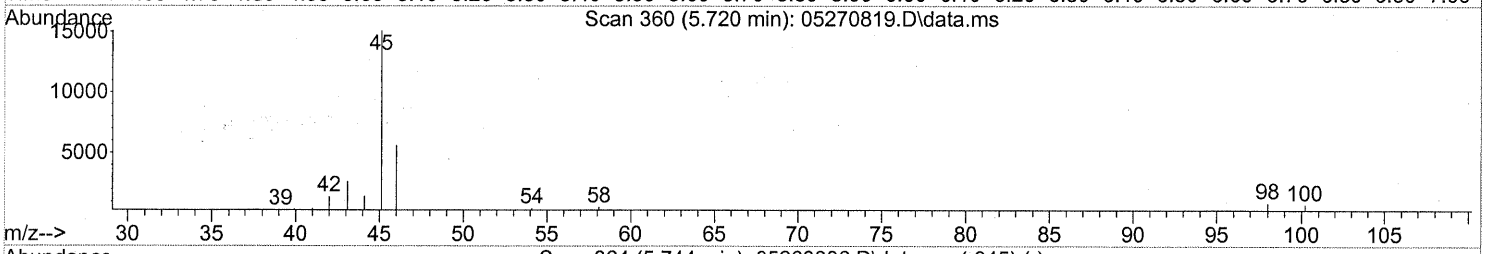

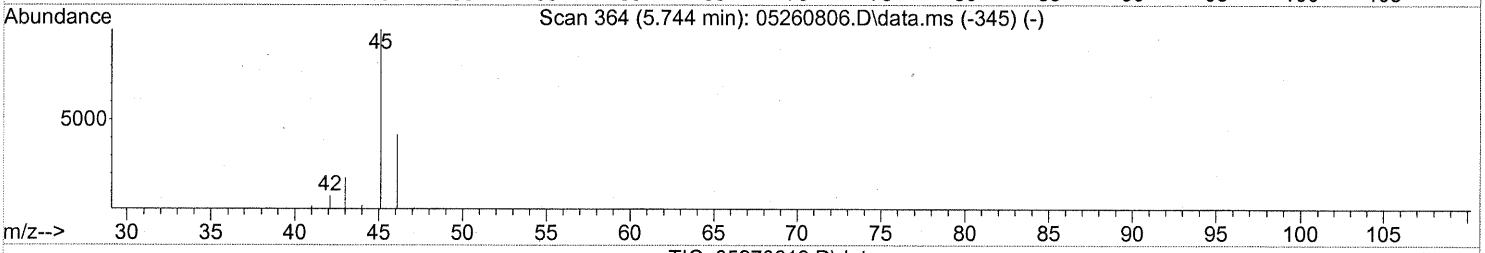

TIC: 05270819.D\data.ms

(10) Ethanol (T)

5.720min (-0.071) 2.34ng

response 46569

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.35
0.00	0.00	0.00
0.00	0.00	0.00

failing

530

Quantitation Report (Qedit)

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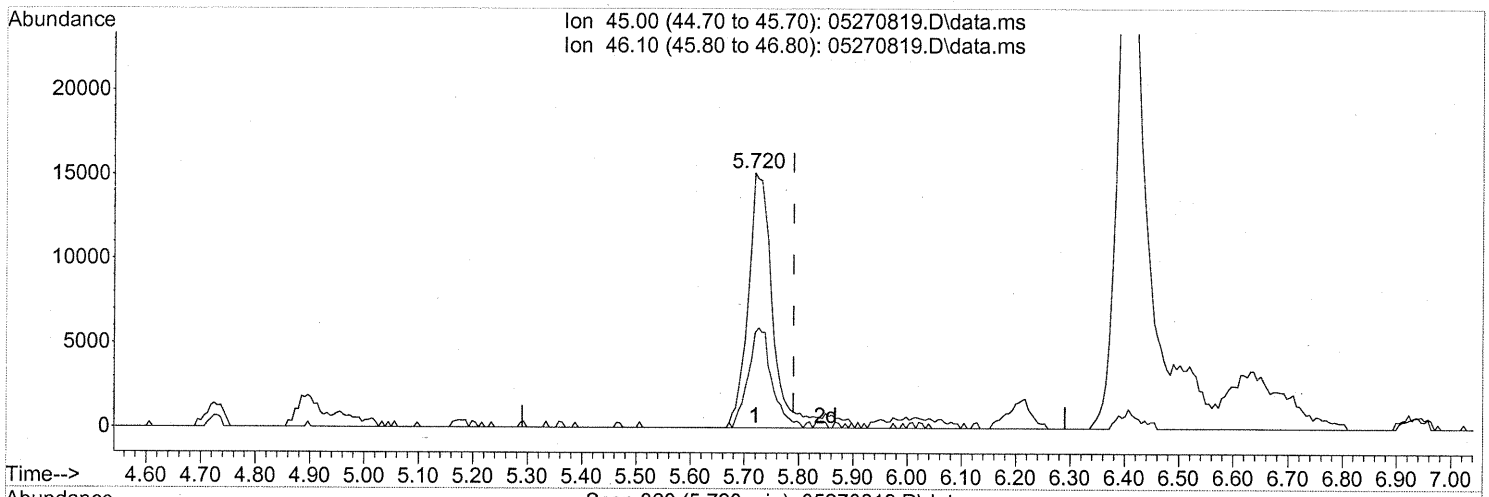

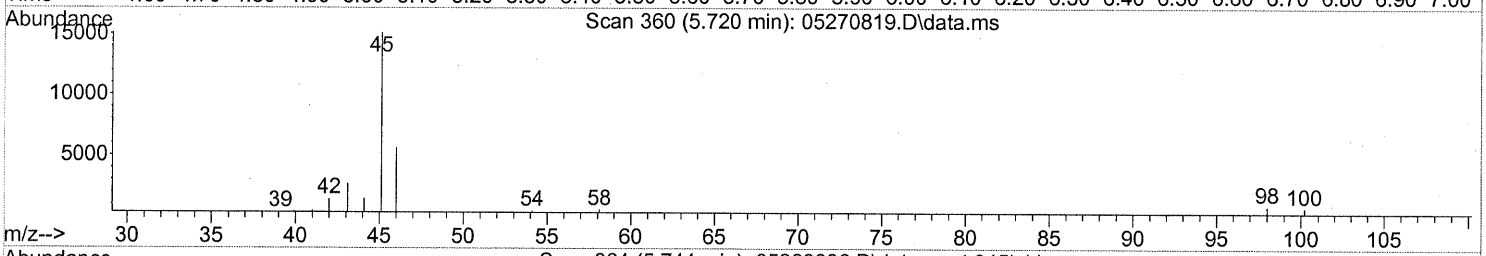

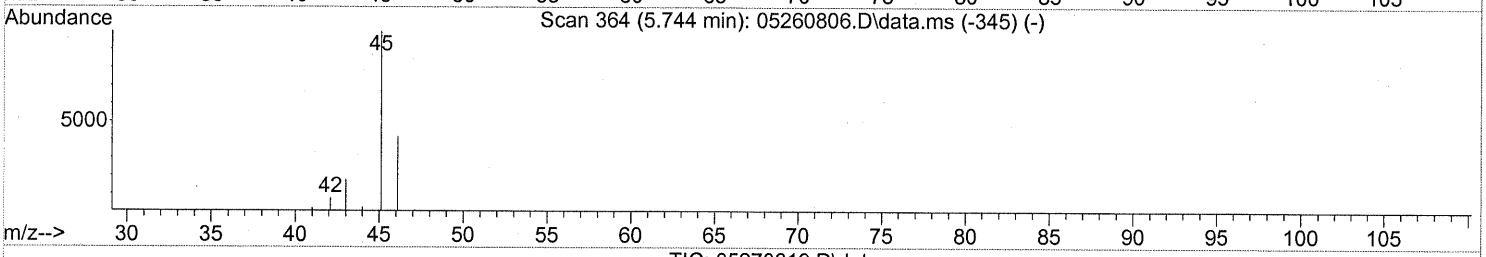

TIC: 05270819.D\data.ms

(10) Ethanol (T)

5.720min (-0.071) 2.67ng m

response 53258

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	33.53
0.00	0.00	0.00
0.00	0.00	0.00

incl. tailing
MA 6/4/08
C 6/4/08

531

Quantitation Report (Qedit)

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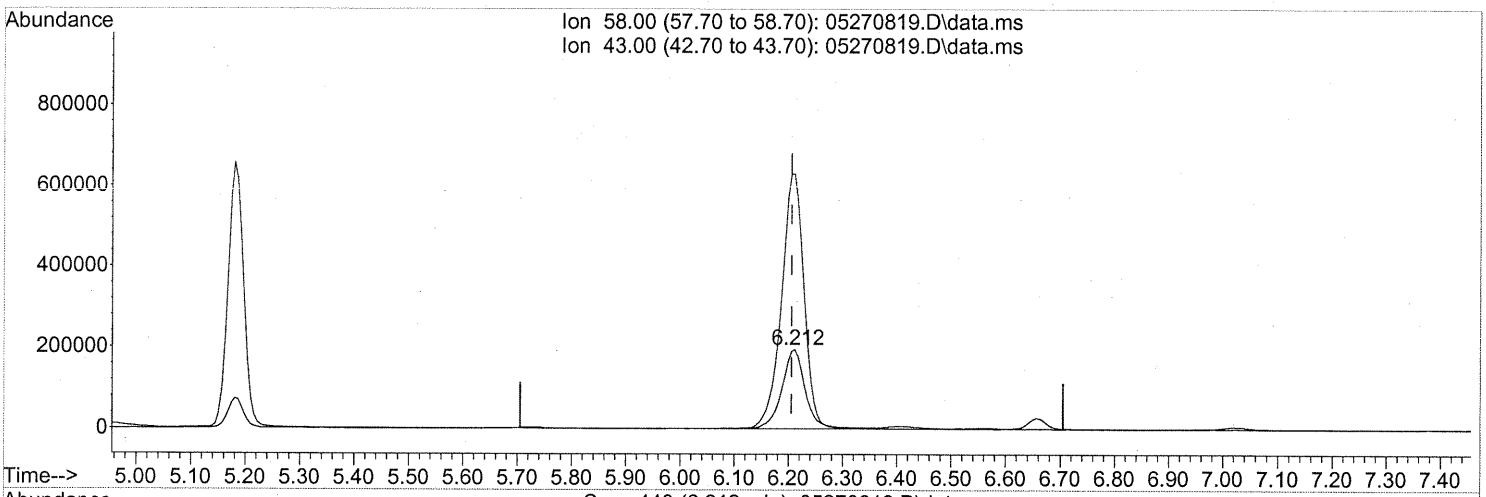

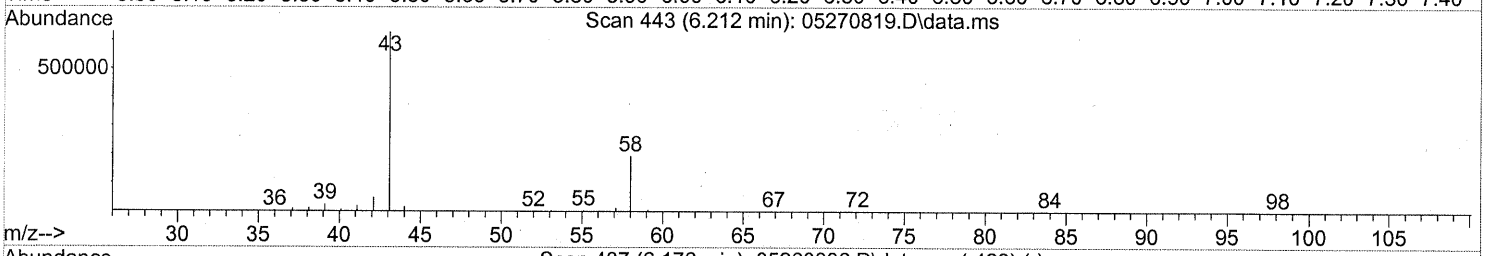

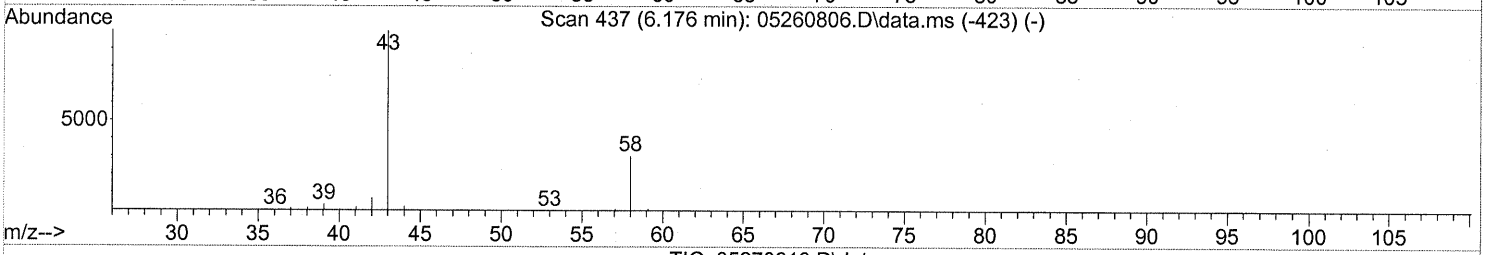

TIC: 05270819.D\data.ms

(13) Acetone (T)

6.212min (+0.006) 29.19ng

response 578805

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	317.36#
0.00	0.00	0.00
0.00	0.00	0.00

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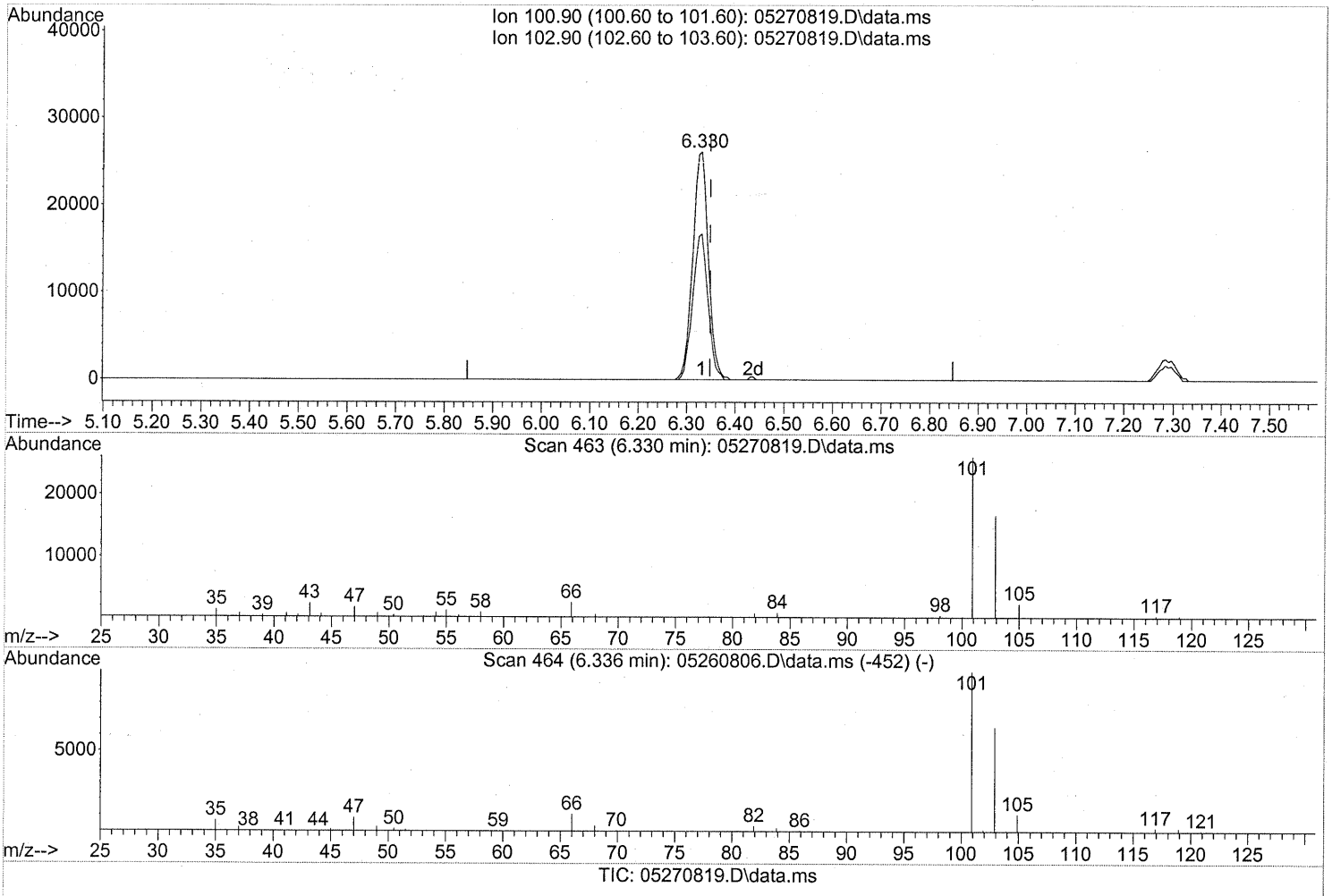
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

6.330min (-0.018) 1.76ng

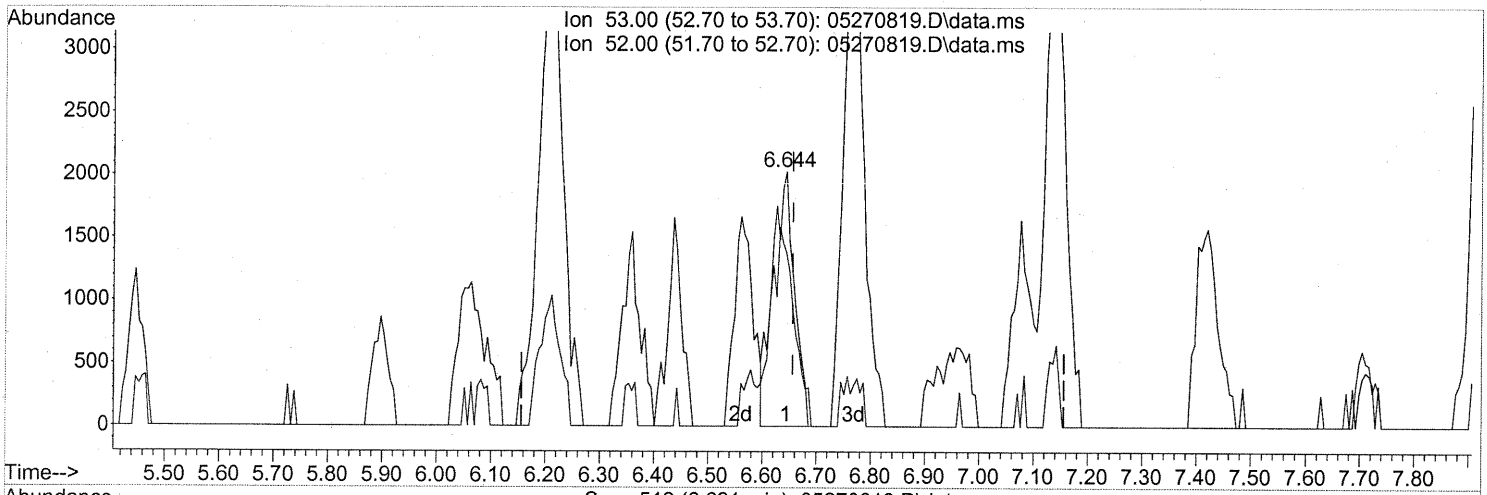
response 58519

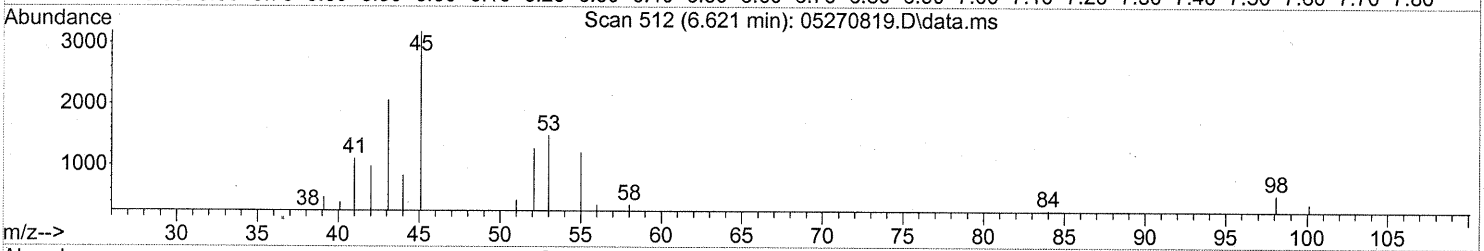
Ion	Exp%	Act%
100.90	100	100
102.90	64.90	62.69
0.00	0.00	0.00
0.00	0.00	0.00

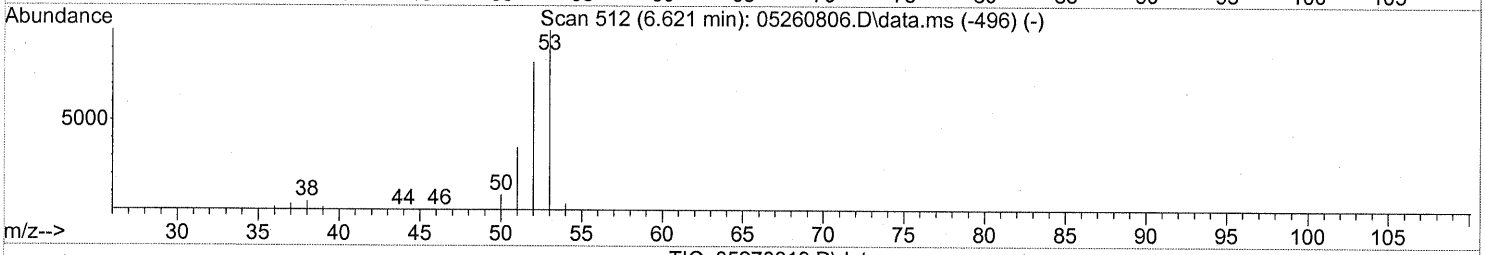
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(16) Acrylonitrile (T)

6.644min (-0.012) 0.16ng

response 5745

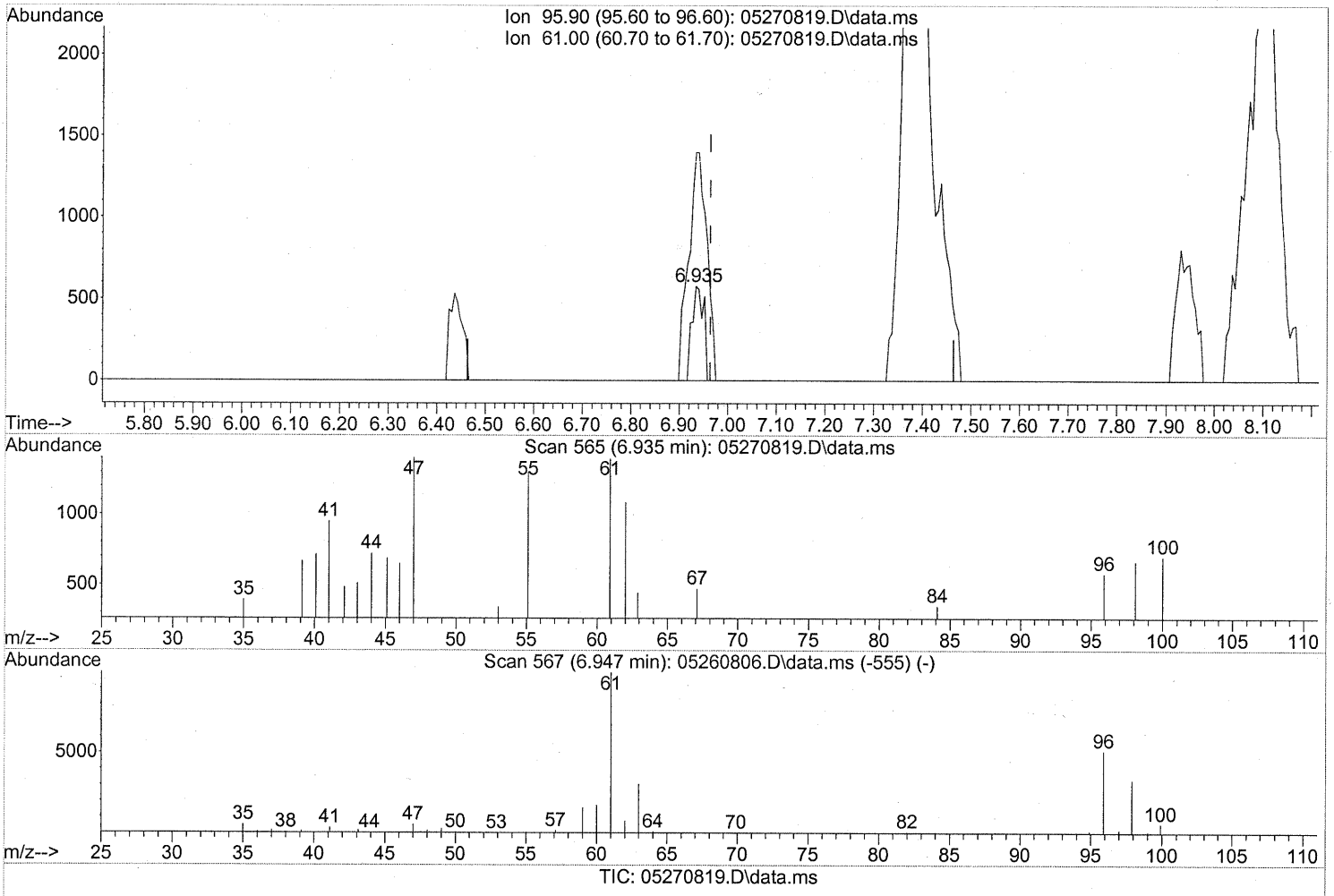
Ion	Exp%	Act%
53.00	100	100
52.00	86.70	83.69
0.00	0.00	0.00
0.00	0.00	0.00

534

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(17) 1,1-Dichloroethene (T)

6.935min (-0.030) 0.06ng

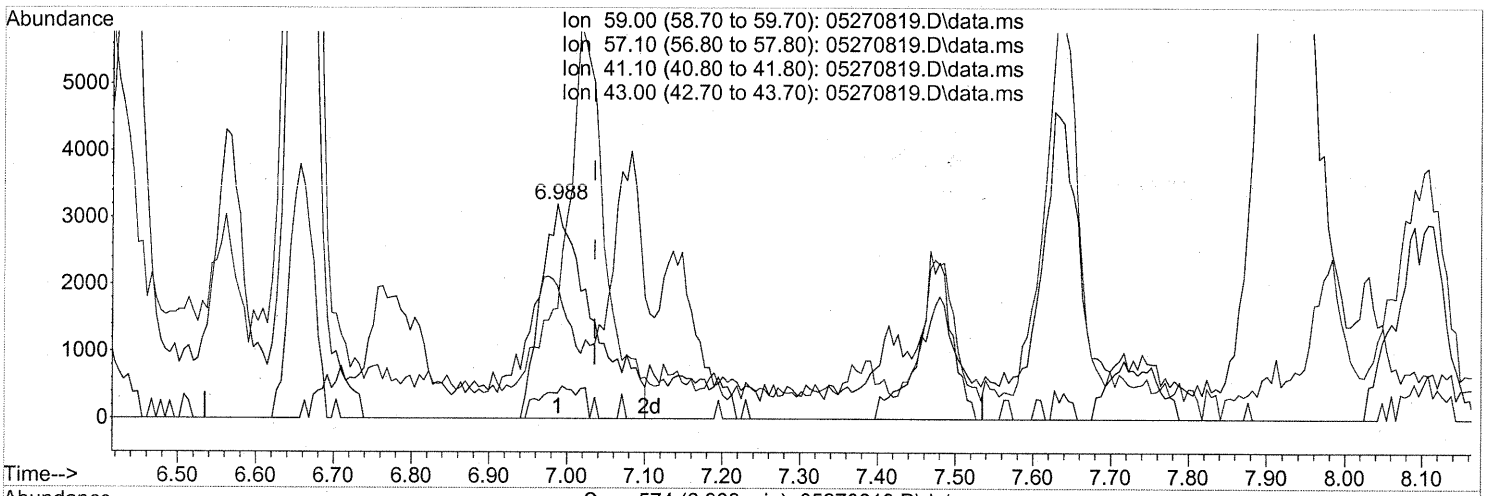
response 974

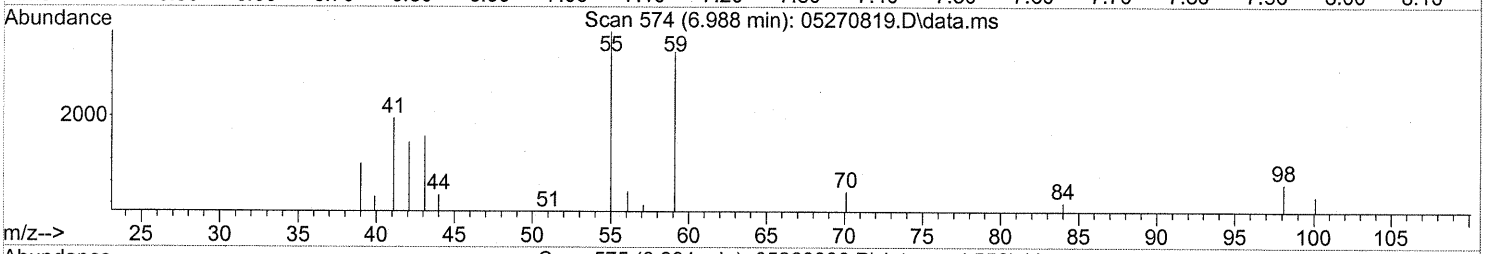
Ion	Exp%	Act%
95.90	100	100
61.00	189.30	375.98#
0.00	0.00	0.00
0.00	0.00	0.00

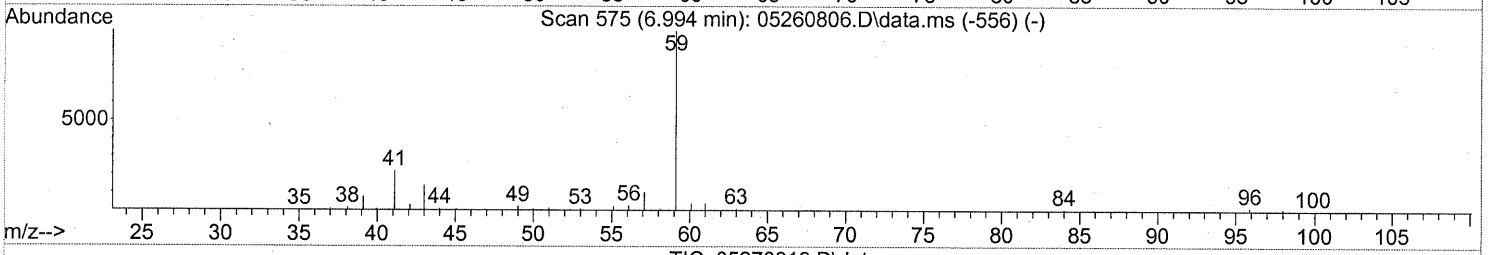
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(18) tert-Butanol (T)

6.988min (-0.048) 0.26ng

response 14628

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	12.55
41.10	21.90	47.57#
43.00	17.20	0.00

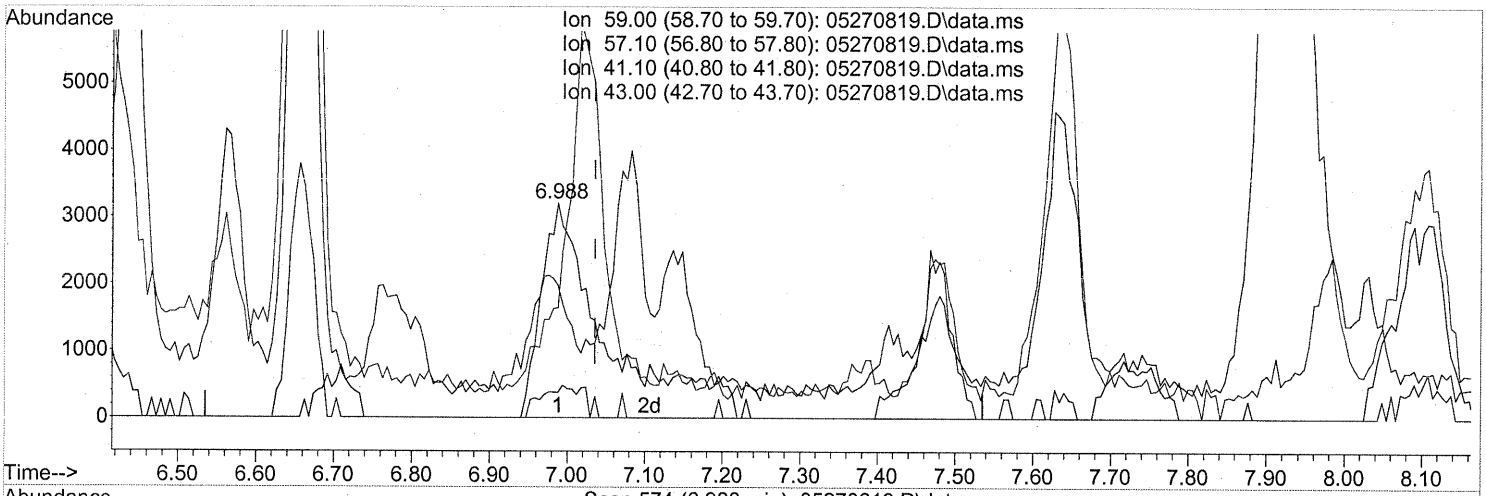
split peaks

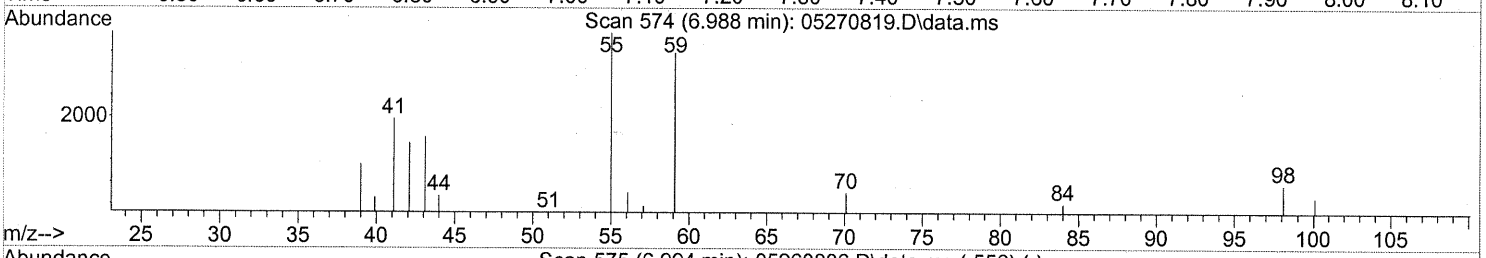
536

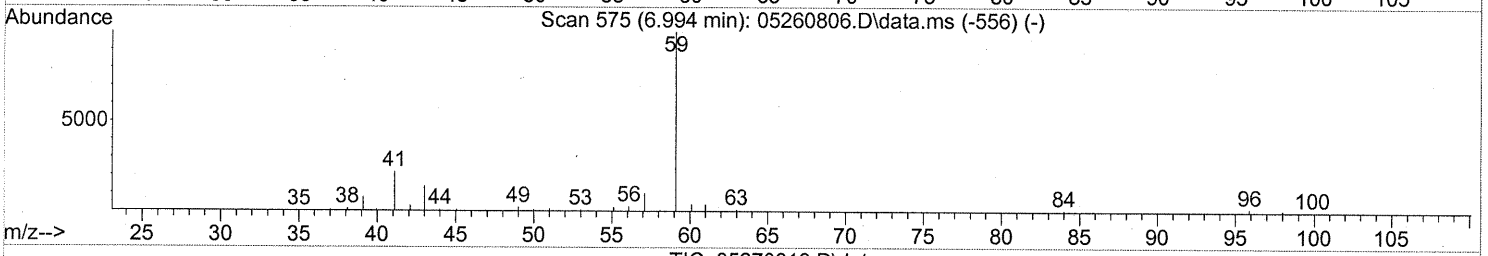
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(18) tert-Butanol (T)

6.988min (-0.048) 0.33ng m

response 18387

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.99
41.10	21.90	37.84
43.00	17.20	0.00

int. whole peaks

DH 6/4/08

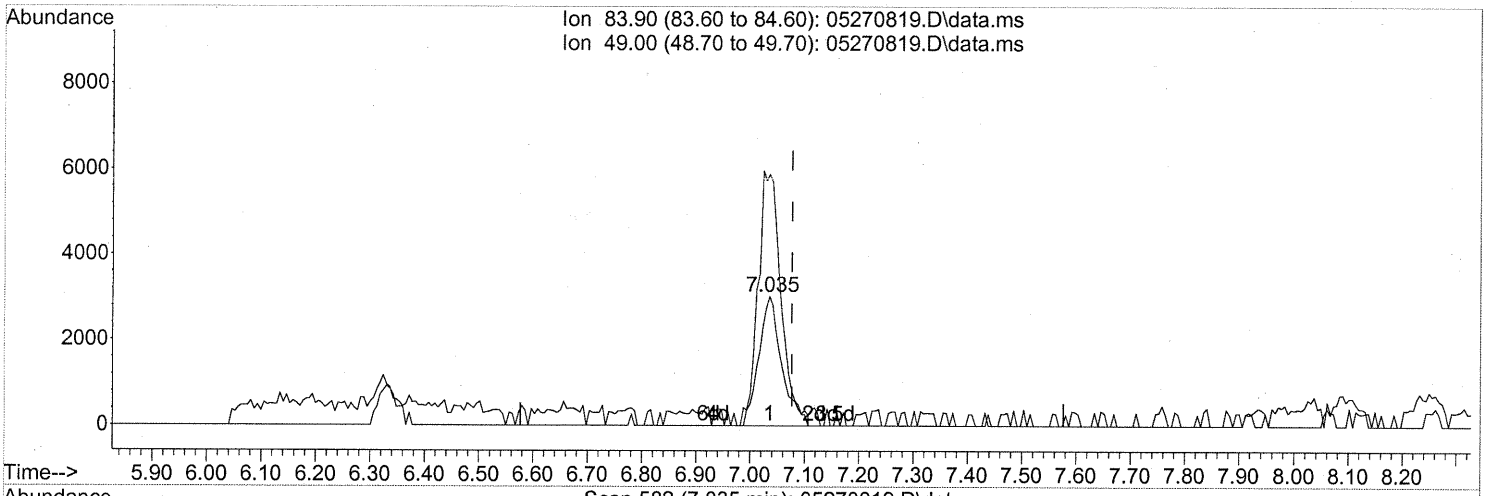
6/4/08

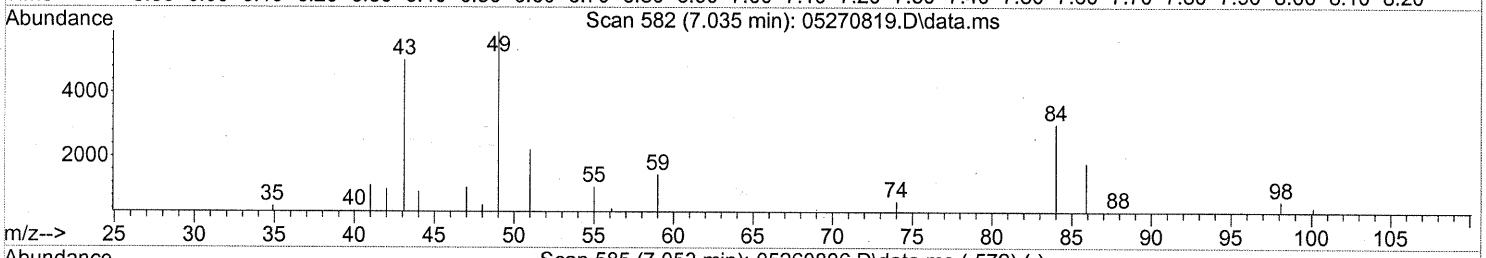
537

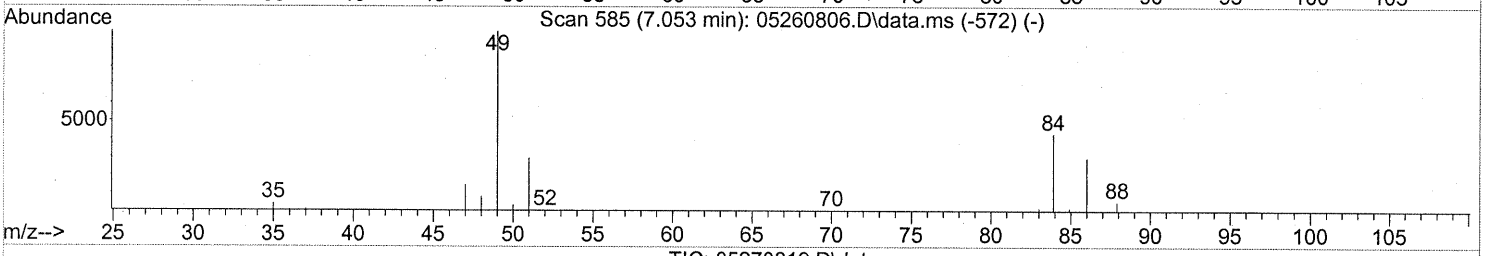
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(19) Methylene Chloride (T)

7.035min (-0.042) 0.59ng

response 9084

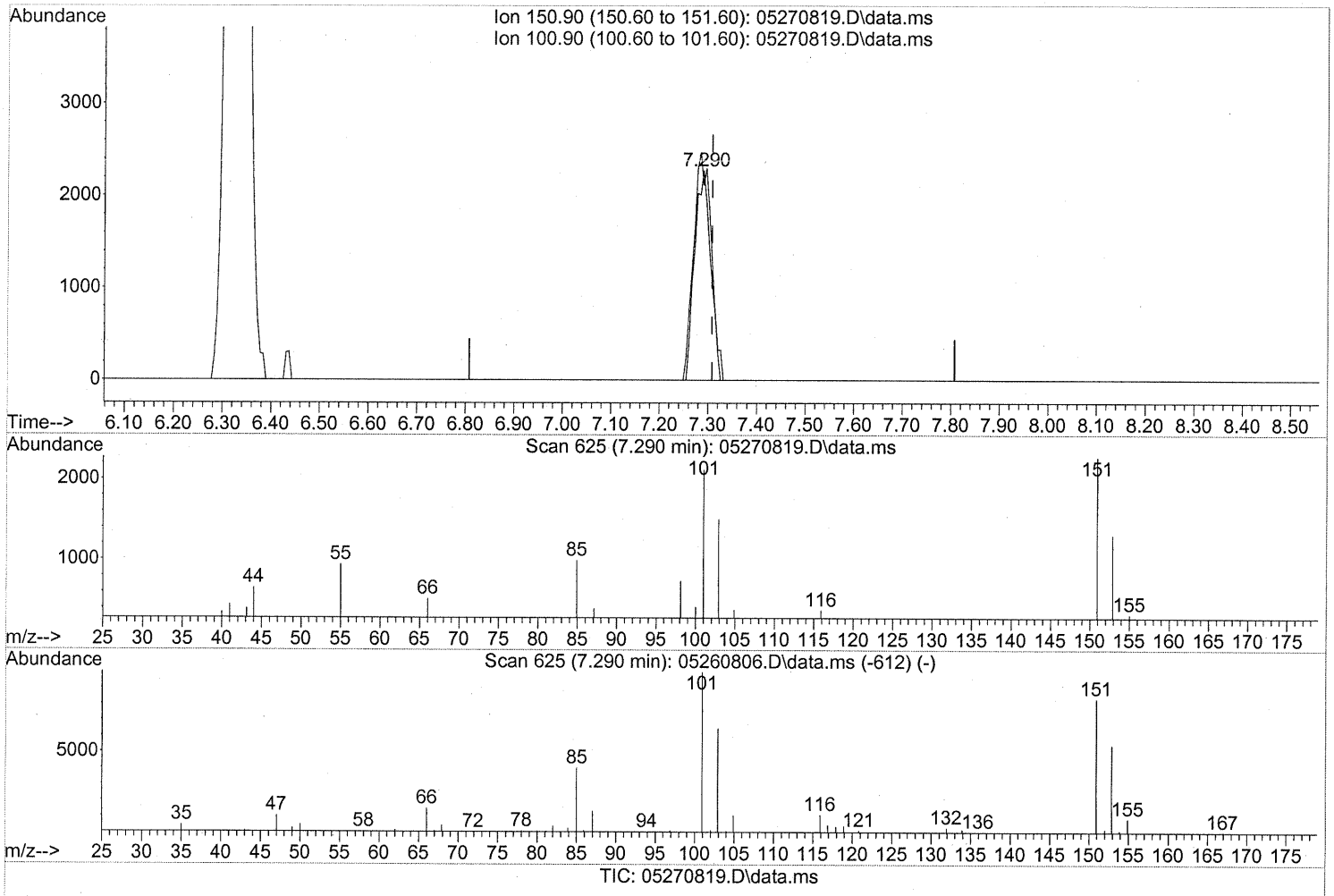
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	190.94#
0.00	0.00	0.00
0.00	0.00	0.00

538

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(21) Trichlorotrifluoroethane (T)

7.290min (-0.018) 0.32ng

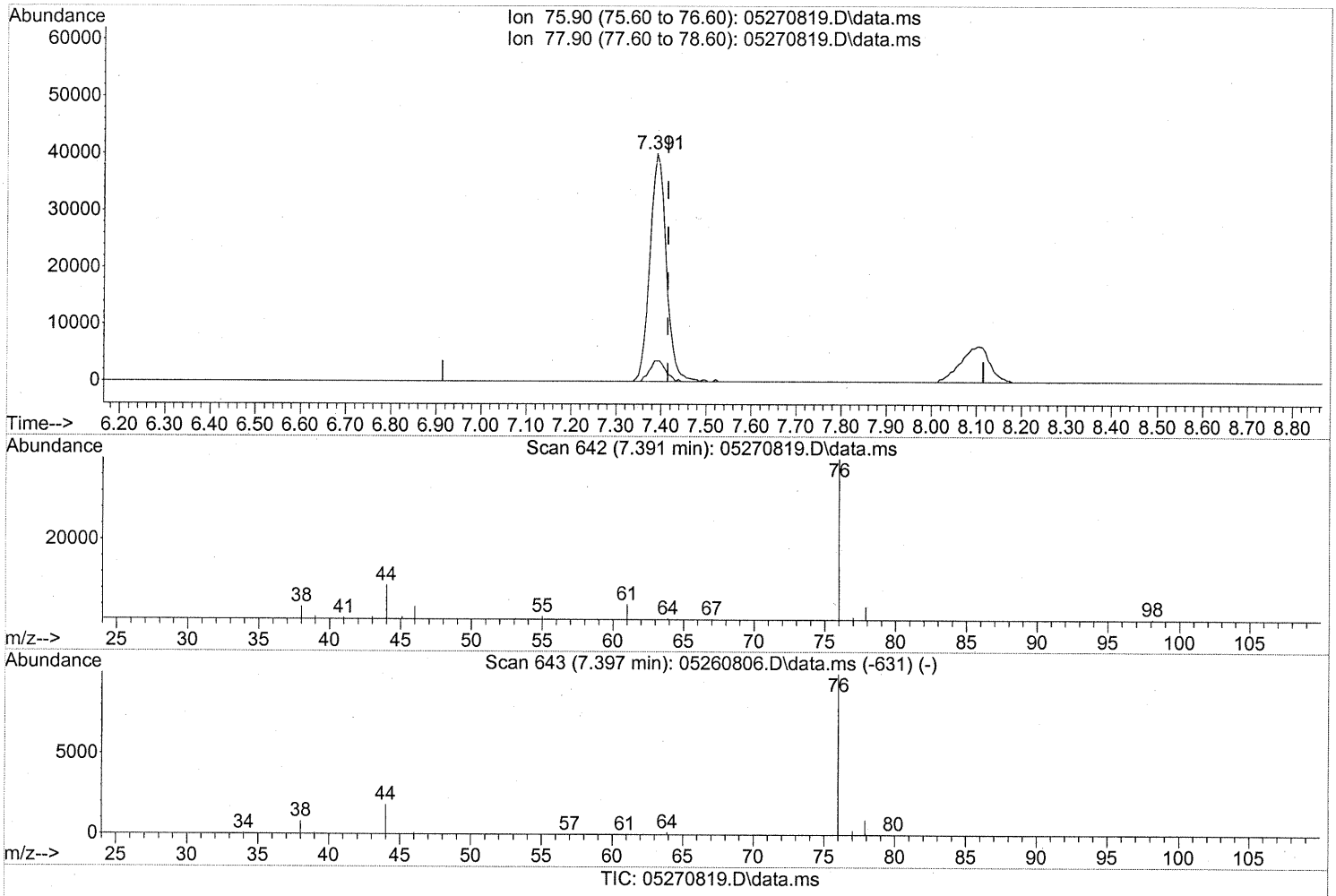
response 5203

Ion	Exp%	Act%
150.90	100	100
100.90	136.10	120.14
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(22) Carbon Disulfide (T)

7.391min (-0.024) 1.64ng

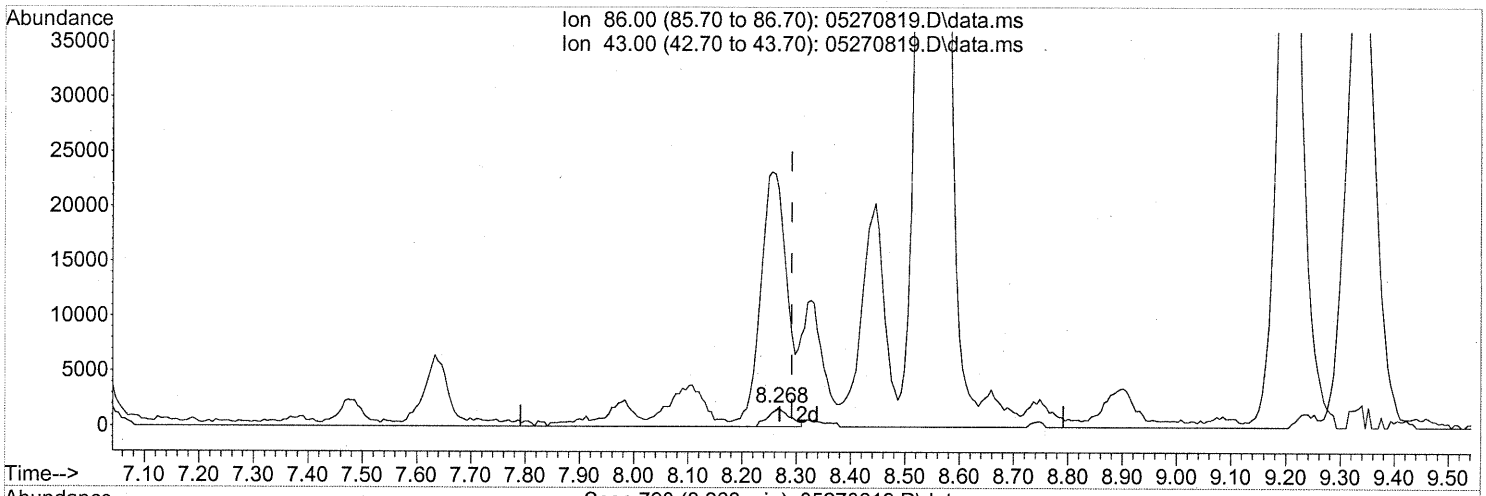
response 100960

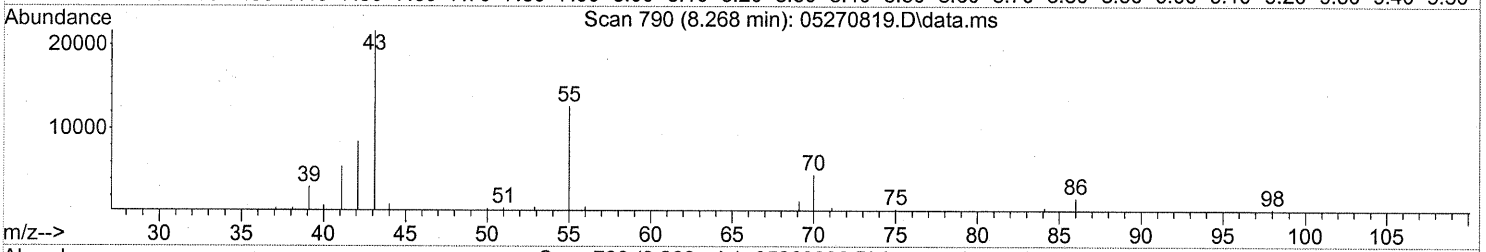
Ion	Exp%	Act%
75.90	100	100
77.90	9.10	8.70
0.00	0.00	0.00
0.00	0.00	0.00

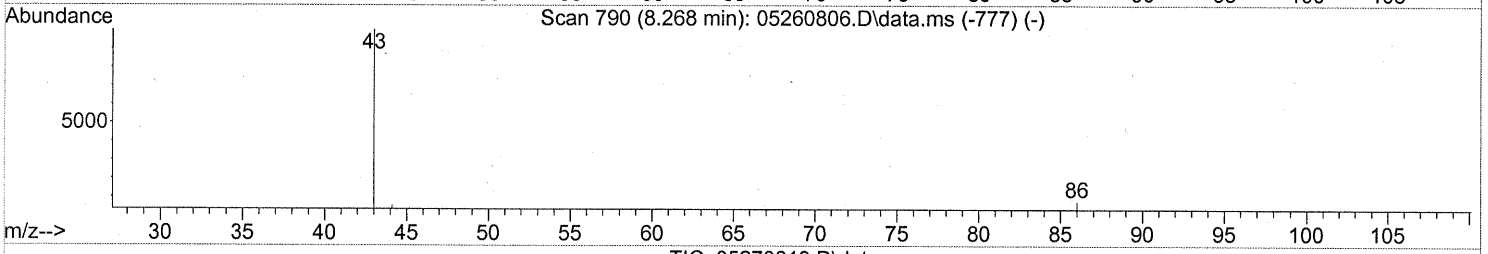
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(26) Vinyl Acetate (T)

8.268min (-0.024) 1.39ng

response 4503

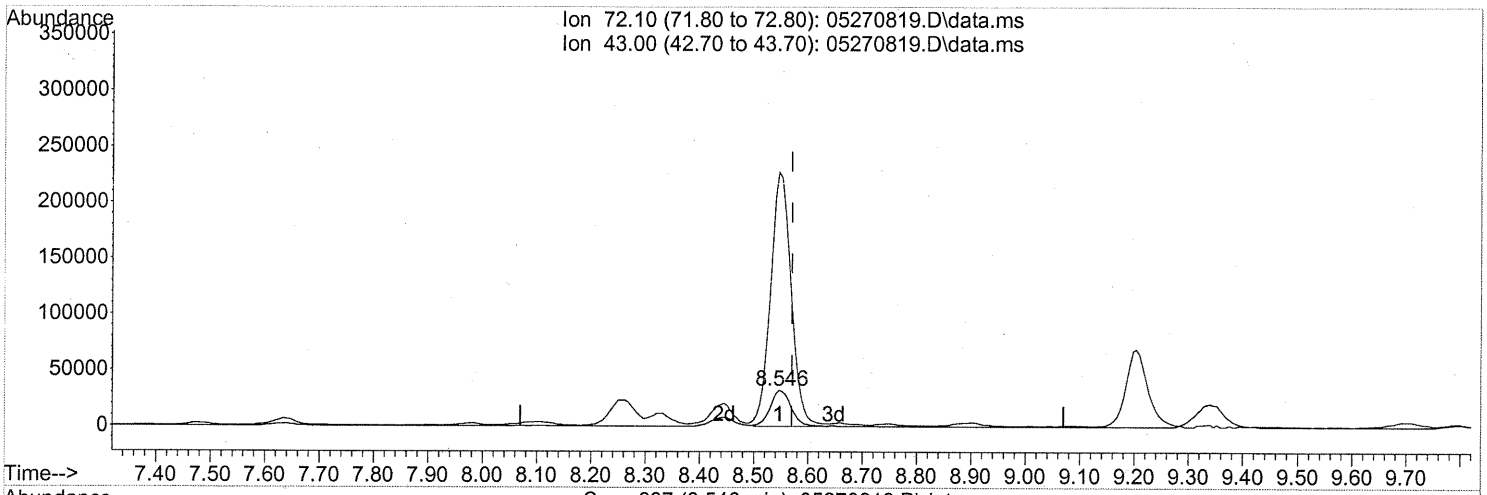
Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	1691.94#
0.00	0.00	0.00
0.00	0.00	0.00

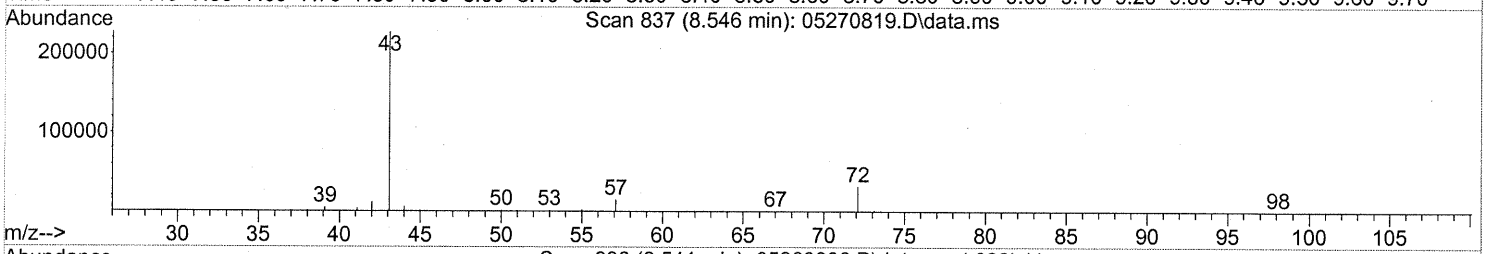
541

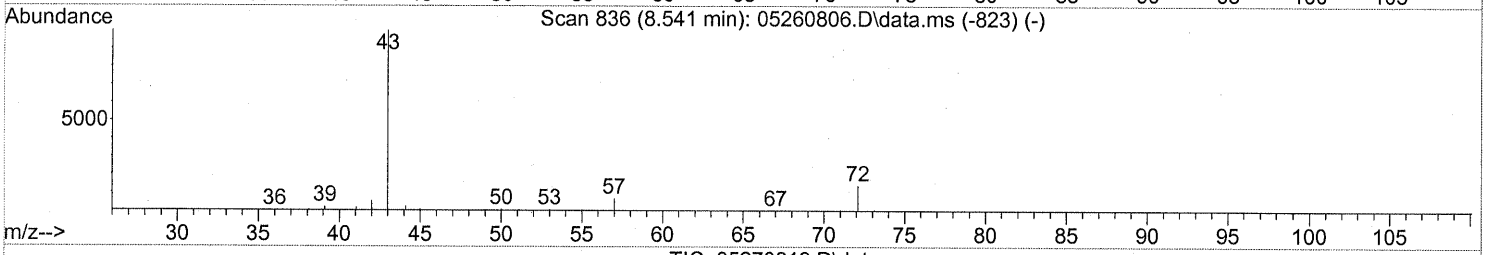
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(27) 2-Butanone (T)

8.546min (-0.024) 8.21ng

response 85110

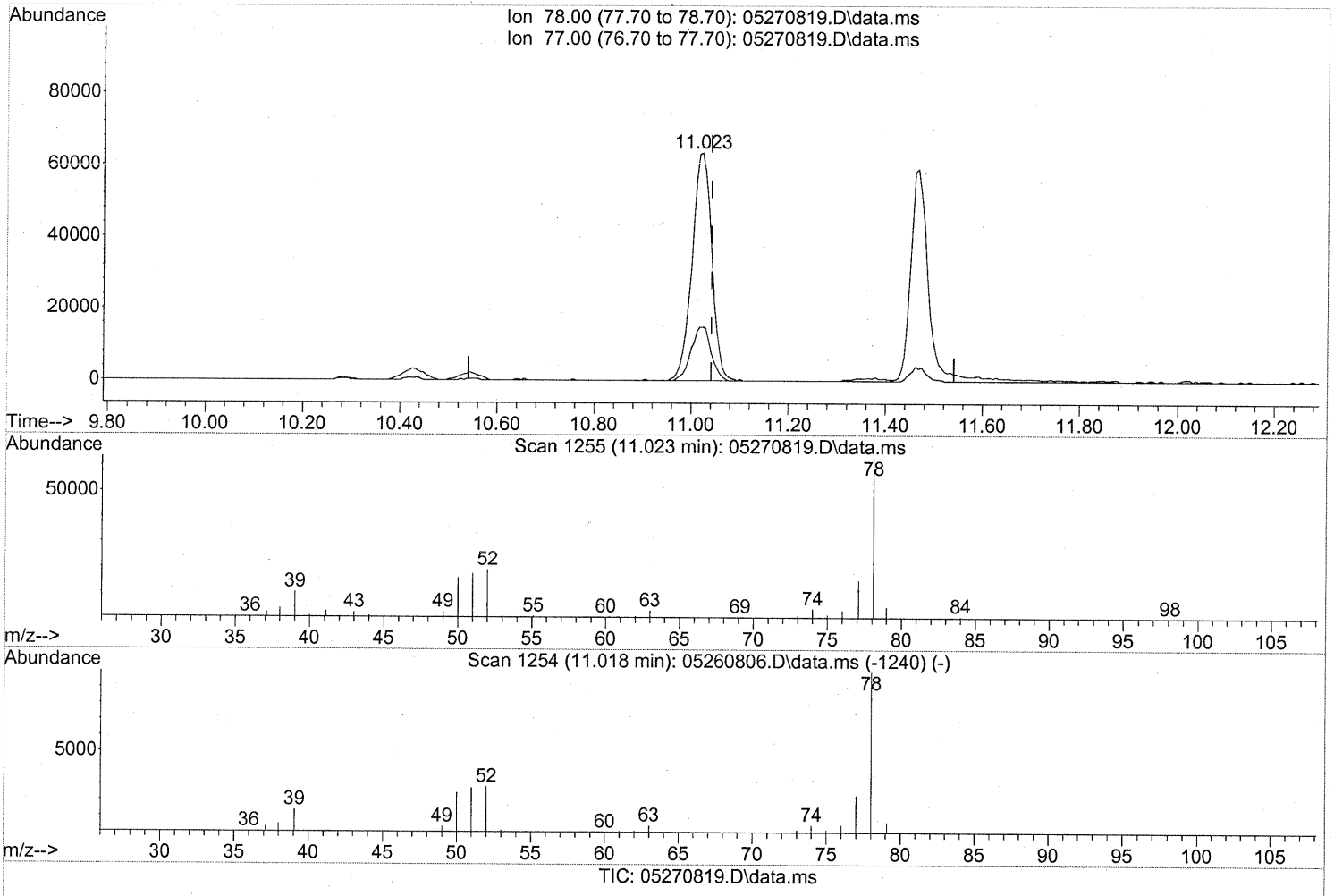
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	704.95#
0.00	0.00	0.00
0.00	0.00	0.00

542

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.023min (-0.018) 2.69ng

response 178816

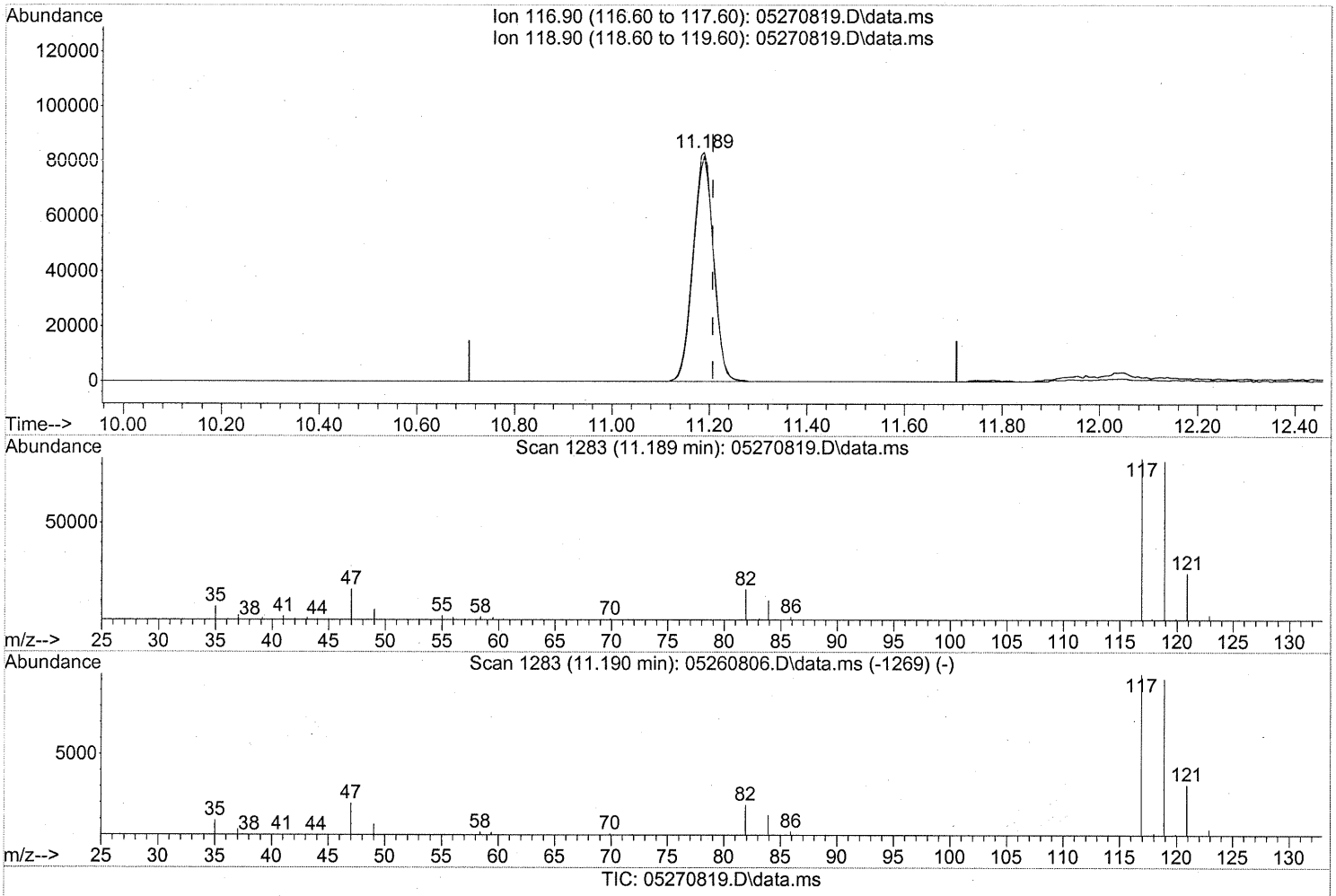
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.90
0.00	0.00	0.00
0.00	0.00	0.00

543

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(42) Carbon Tetrachloride (T)

11.189min (-0.018) 8.97ng

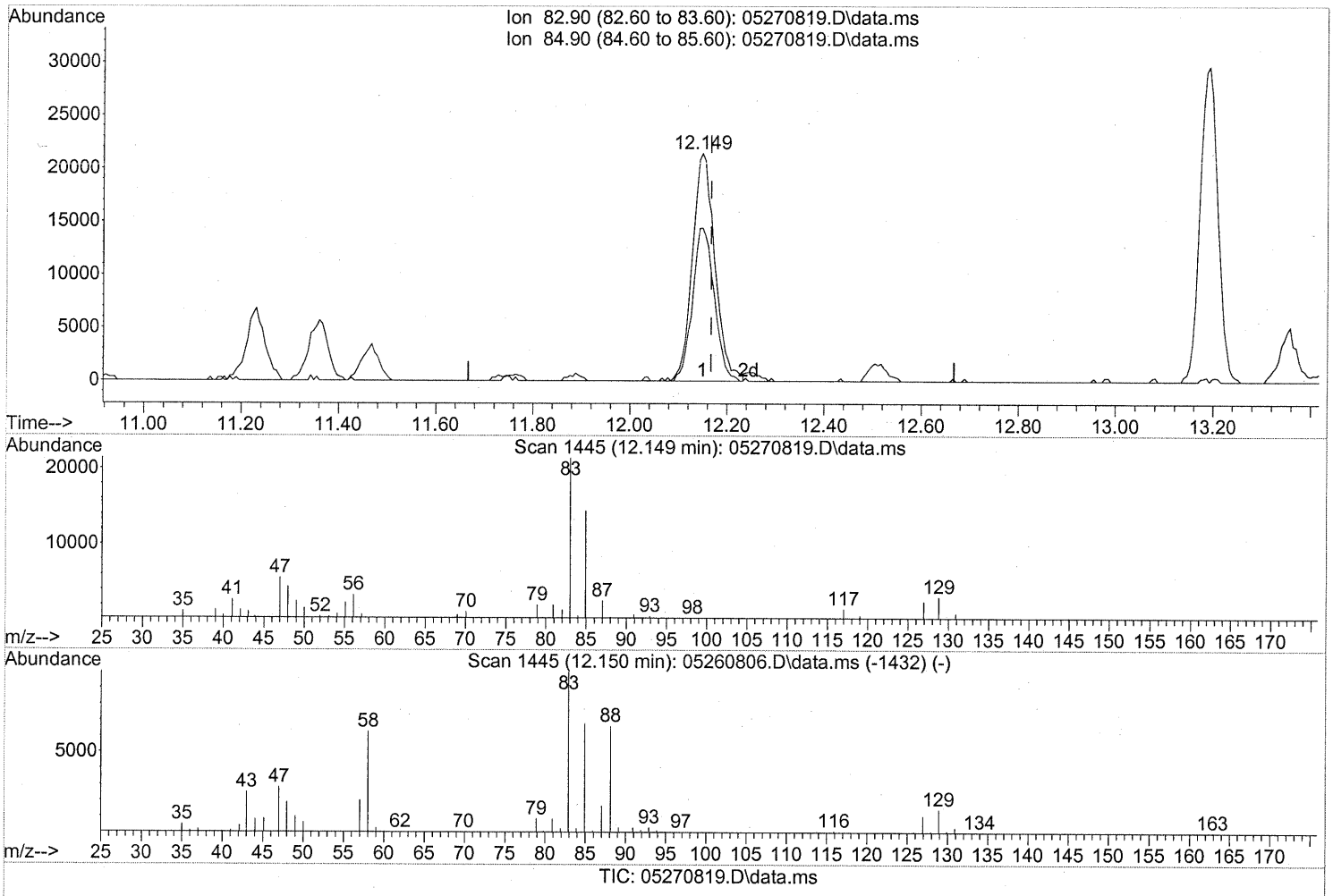
response 244659

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.05
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(46) Bromodichloromethane (T)

12.149min (-0.018) 3.53ng

response 69037

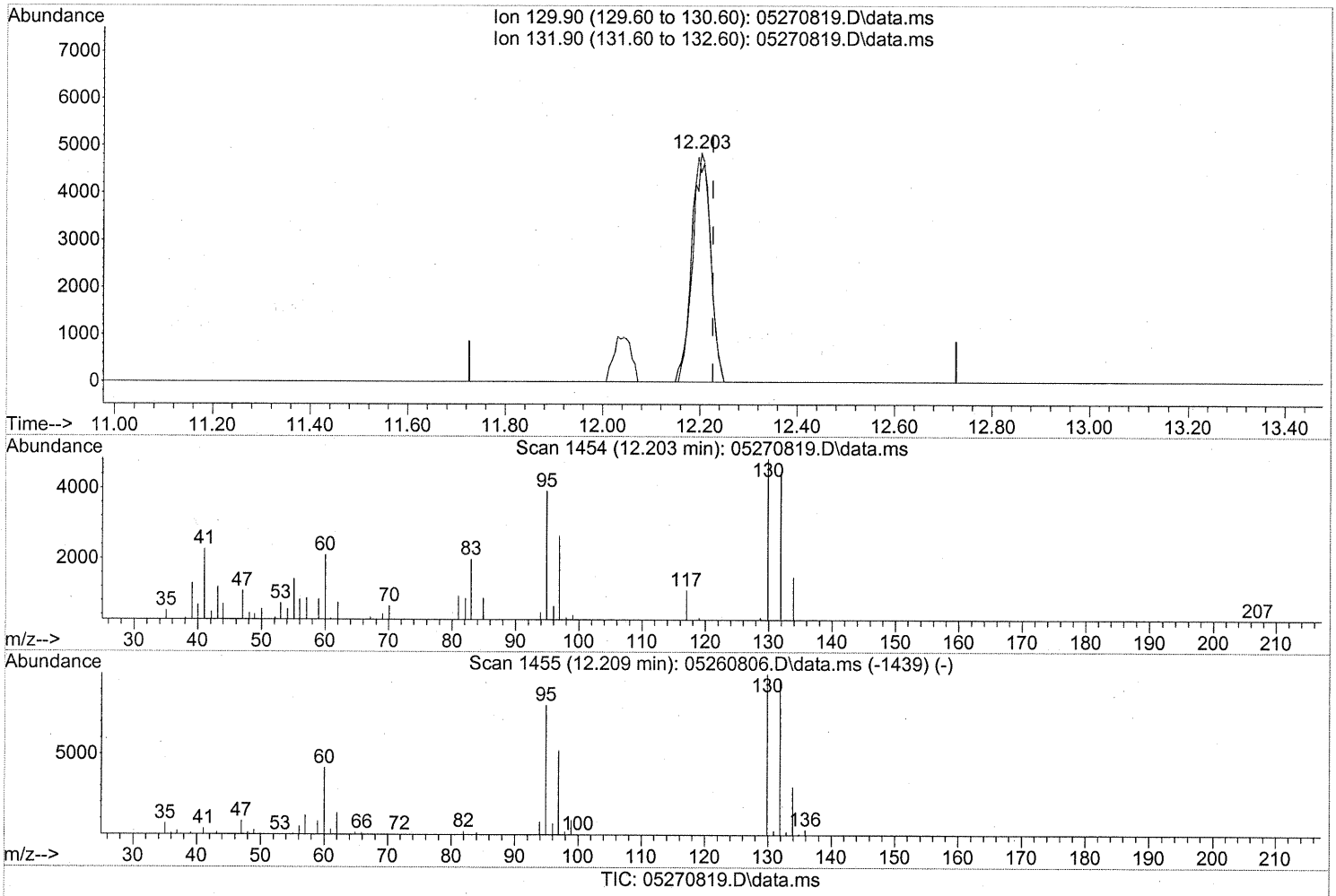
Ion	Exp%	Act%
82.90	100	100
84.90	62.30	65.25
0.00	0.00	0.00
0.00	0.00	0.00

545

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.203min (-0.024) 0.63ng

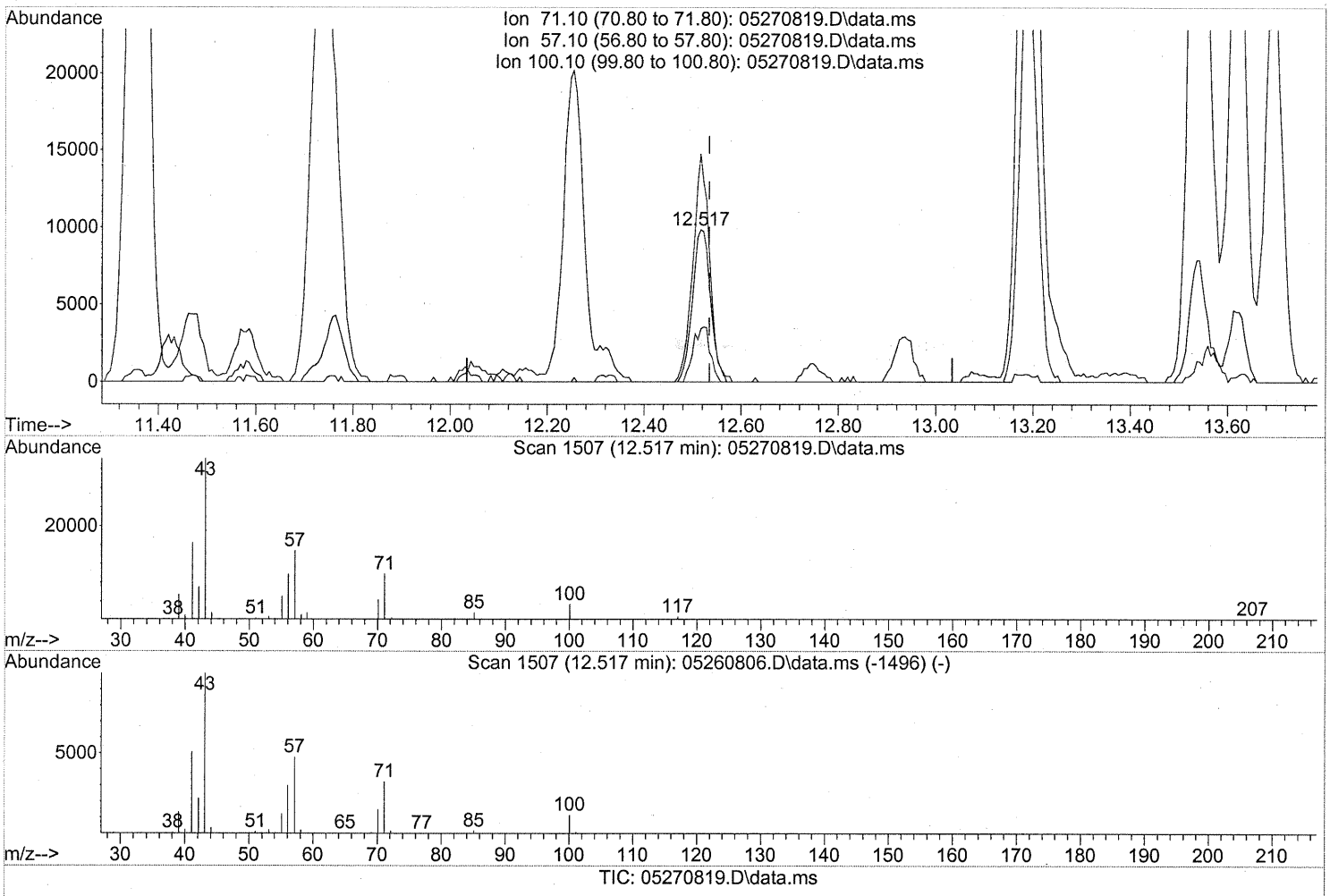
response 13041

Ion	Exp%	Act%
129.90	100	100
131.90	95.10	95.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(51) n-Heptane (T)

12.517min (-0.018) 1.61ng

response 25510

Ion	Exp%	Act%
71.10	100	100
57.10	88.70	137.72#
100.10	28.80	33.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
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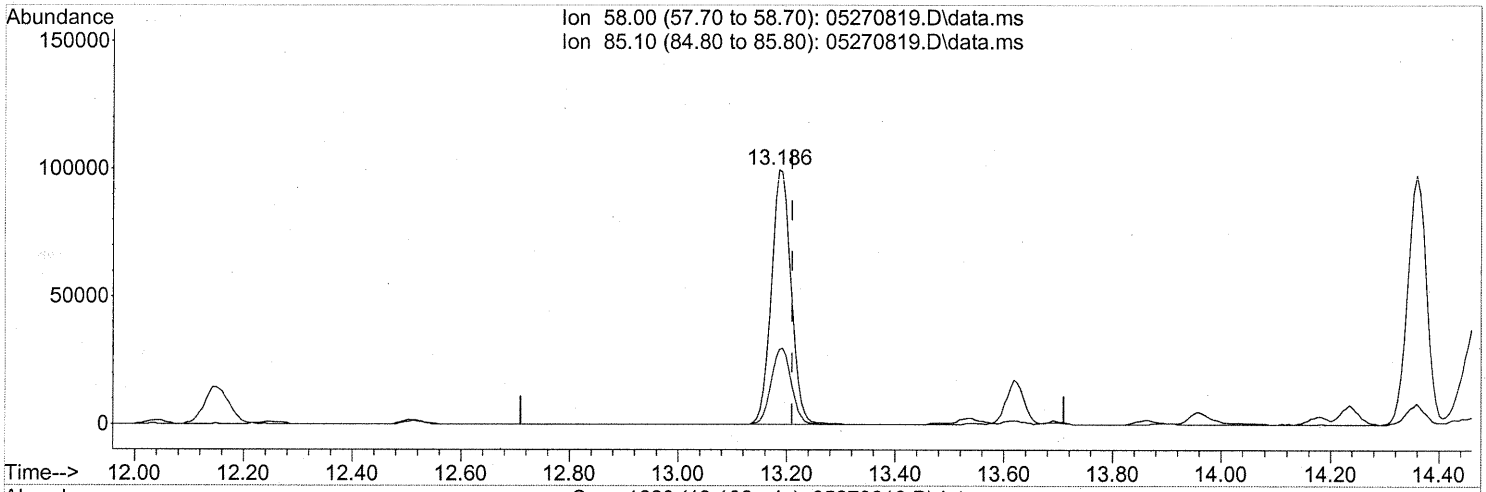
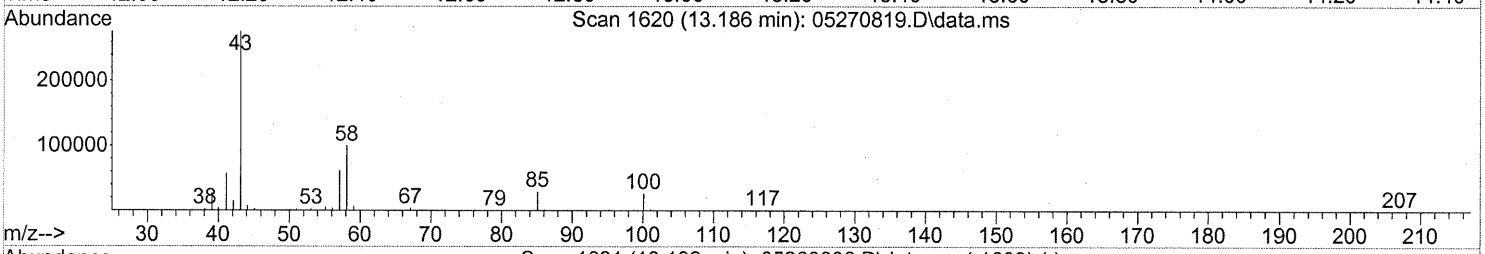
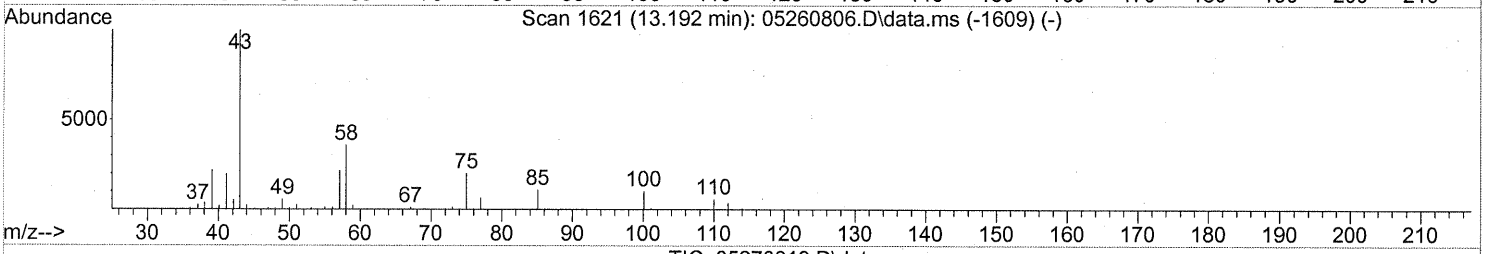
Response via : Initial Calibration







TIC: 05270819.D\data.ms

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

13.186min (-0.024) 10.94ng

response 252898

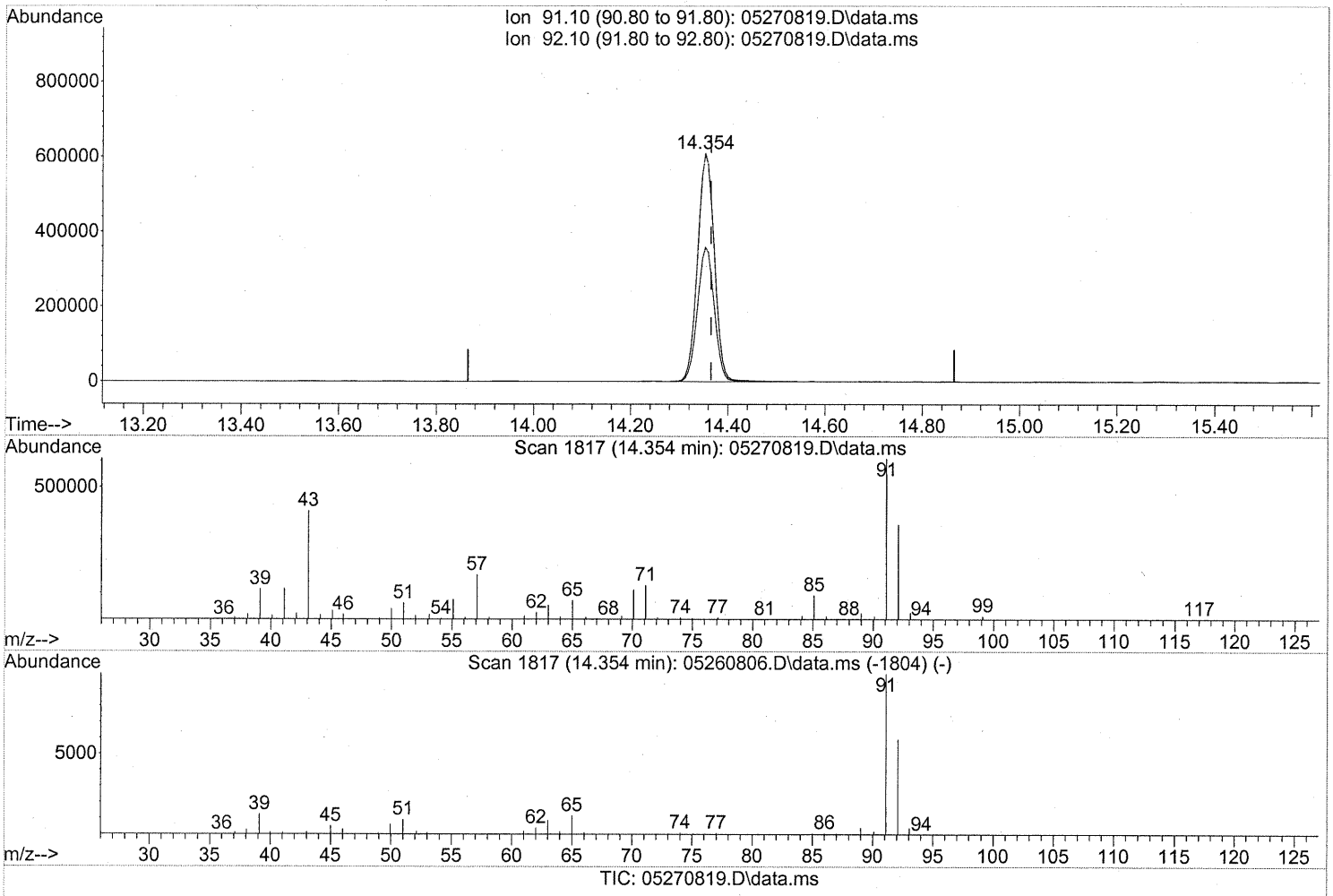
Ion	Exp%	Act%
58.00	100	100
85.10	40.70	30.31
0.00	0.00	0.00
0.00	0.00	0.00

548

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(58) Toluene (T)

14.354min (-0.012) 19.18ng

response 1461913

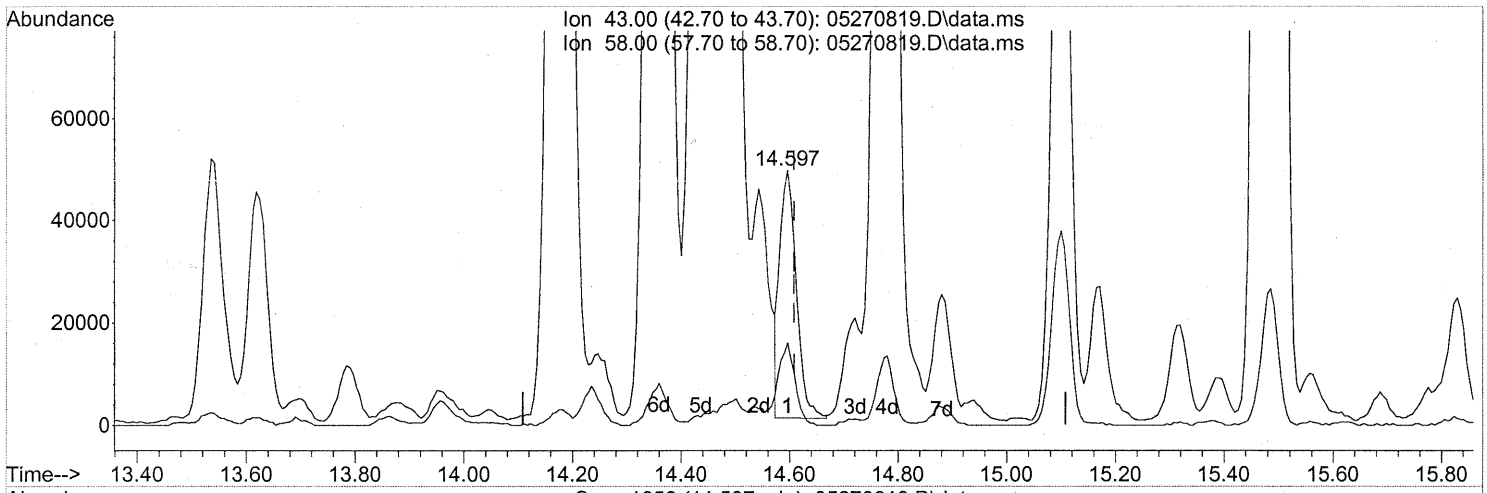
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	58.91
0.00	0.00	0.00
0.00	0.00	0.00

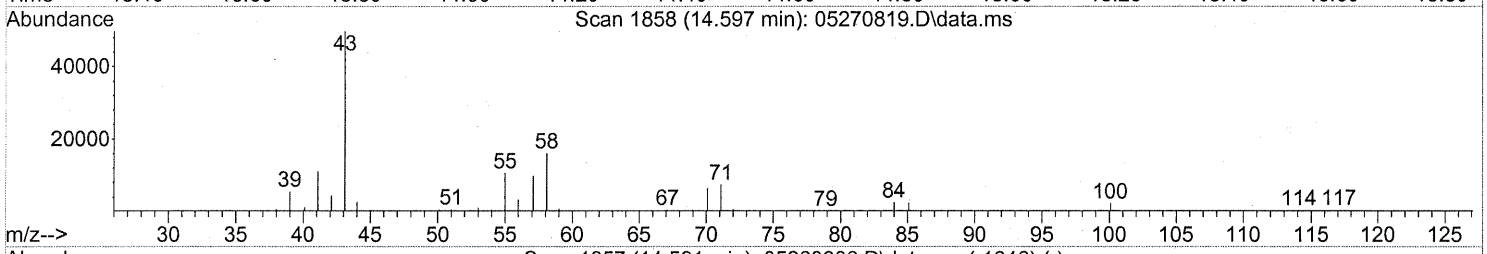
549

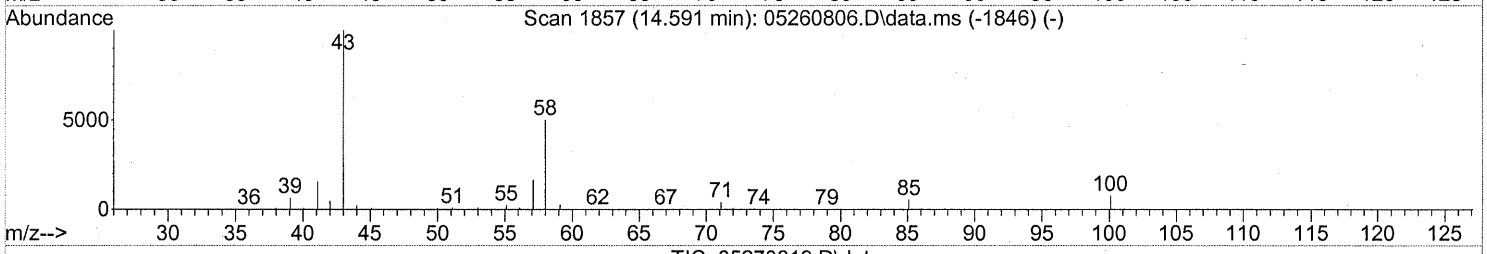
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(59) 2-Hexanone (T)

14.597min (-0.012) 1.43ng

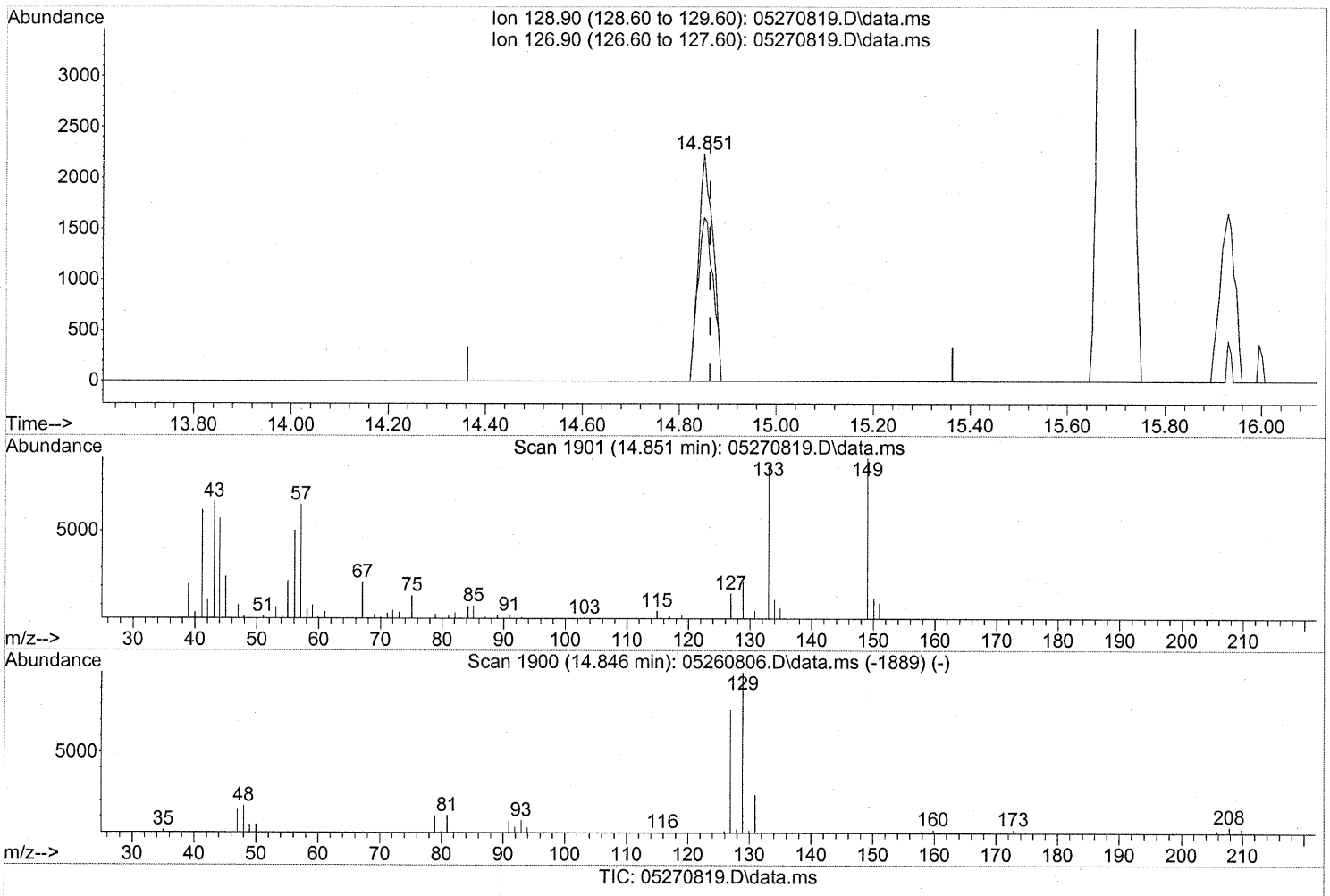
response 102971

Ion	Exp%	Act%
43.00	100	100
58.00	50.90	34.91
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(60) Dibromochloromethane (T)

14.851min (-0.012) 0.21ng

response 4639

Ion	Exp%	Act%
128.90	100	100
126.90	77.20	78.01
0.00	0.00	0.00
0.00	0.00	0.00

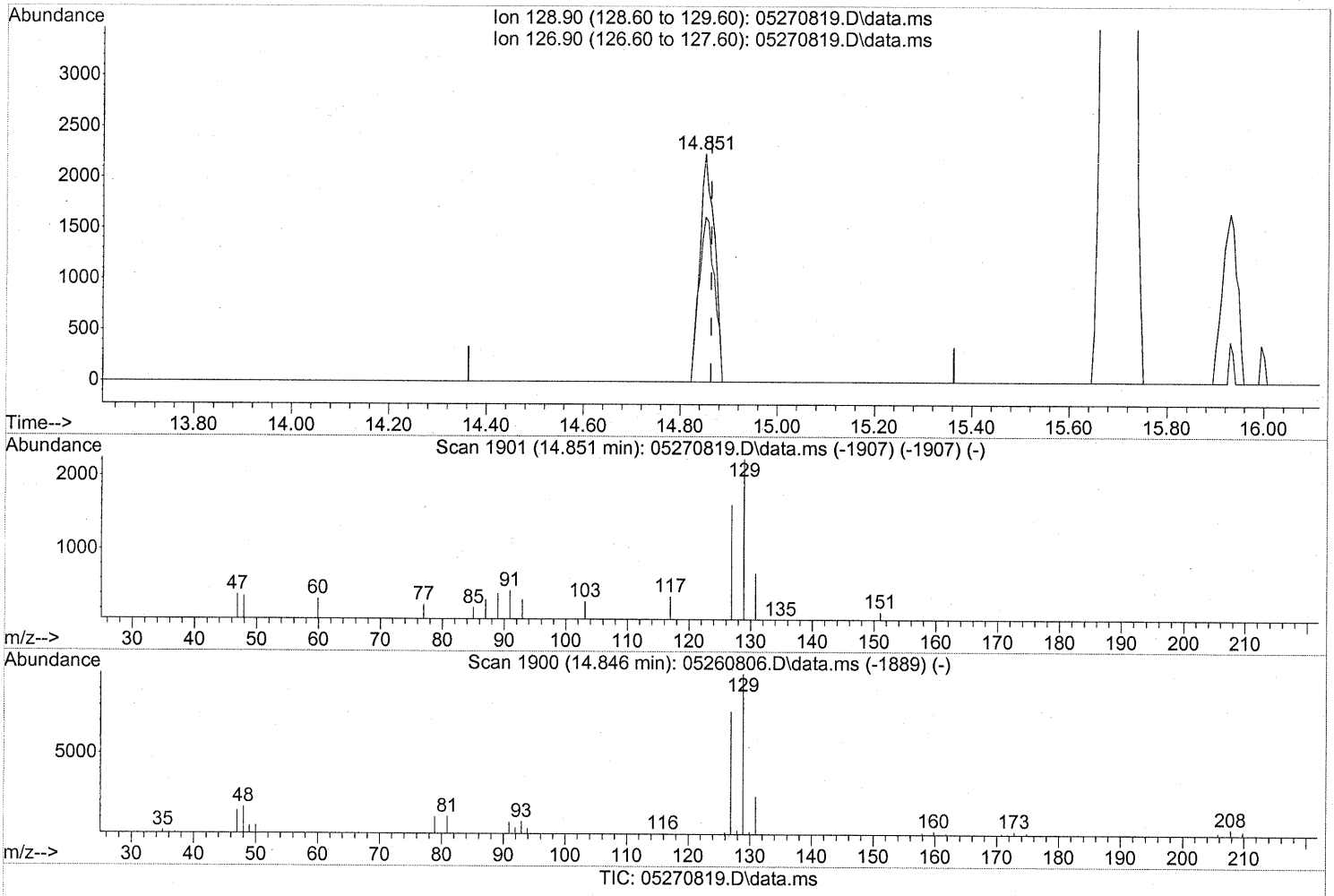
before

551

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(60) Dibromochloromethane (T)

14.851min (-0.012) 0.21ng

response 4639

Ion	Exp%	Act%
128.90	100	100
126.90	77.20	78.01
0.00	0.00	0.00
0.00	0.00	0.00

after substr.

DA 6/4/08

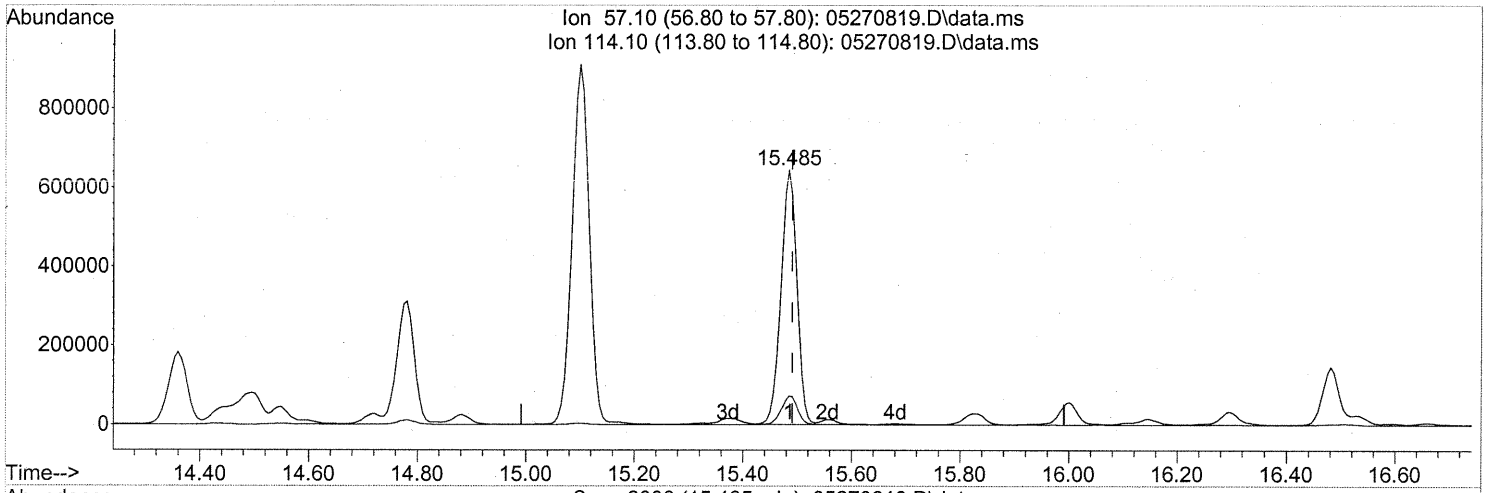
E. 6/4/08

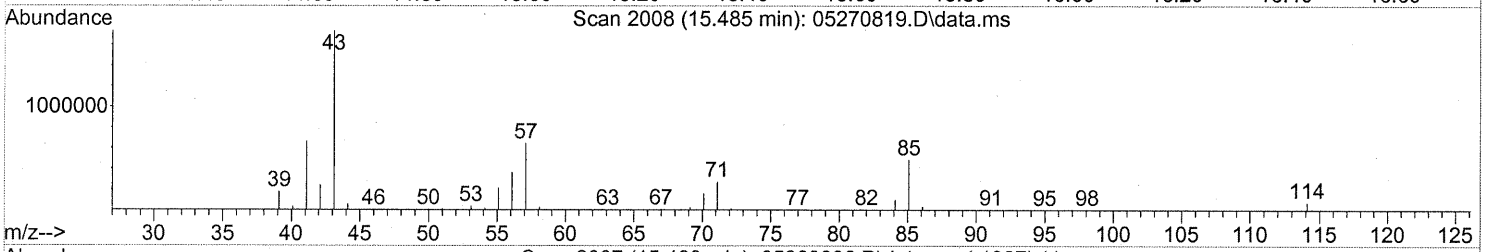
552

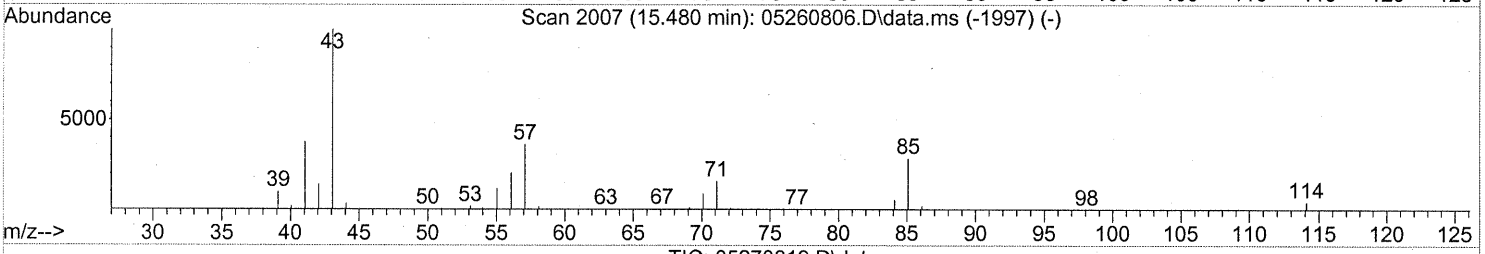
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(63) n-Octane (T)

15.485min (-0.006) 57.27ng

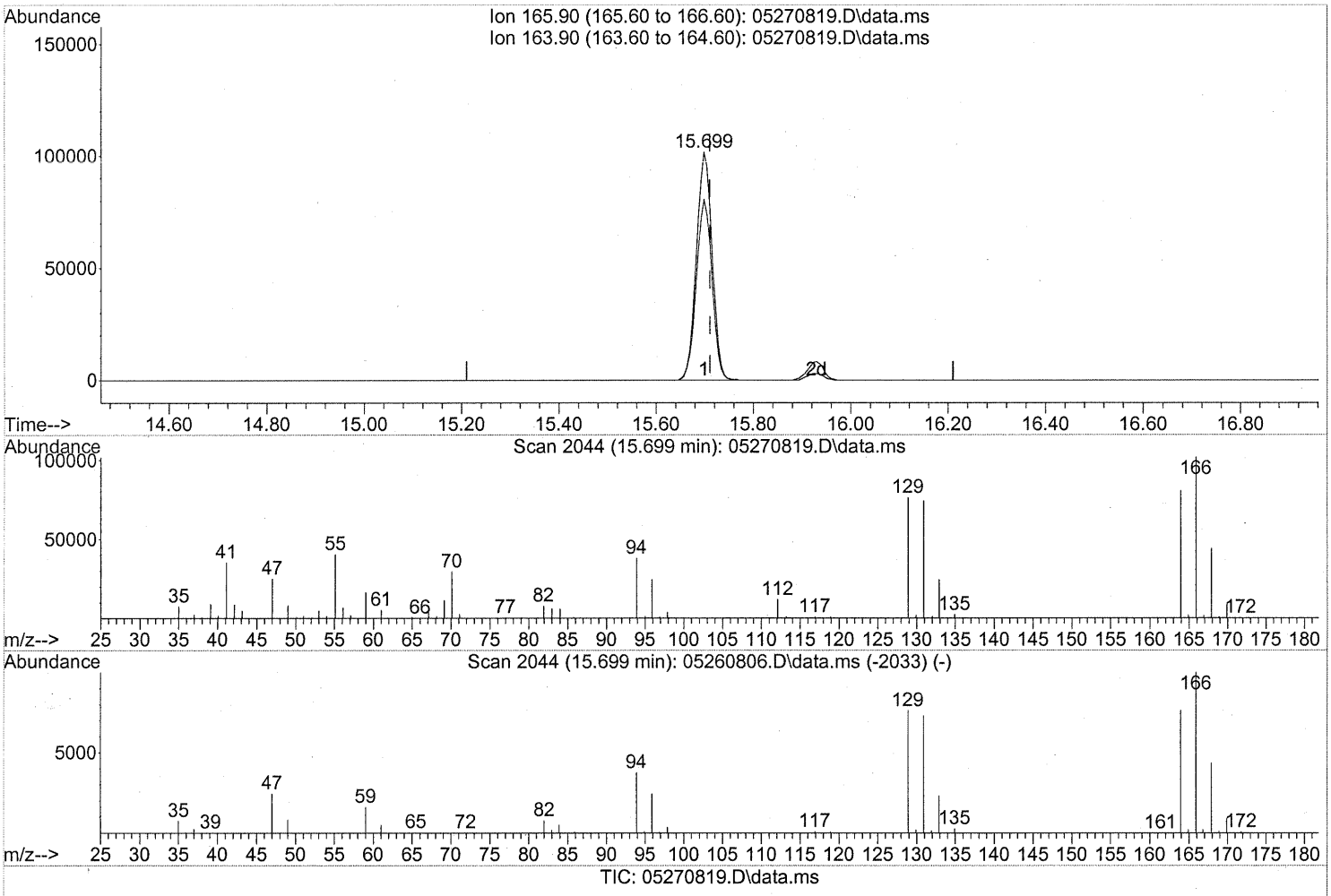
response 1320046

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(64) Tetrachloroethene (T)

15.699min (-0.012) 10.11ng

response 227946

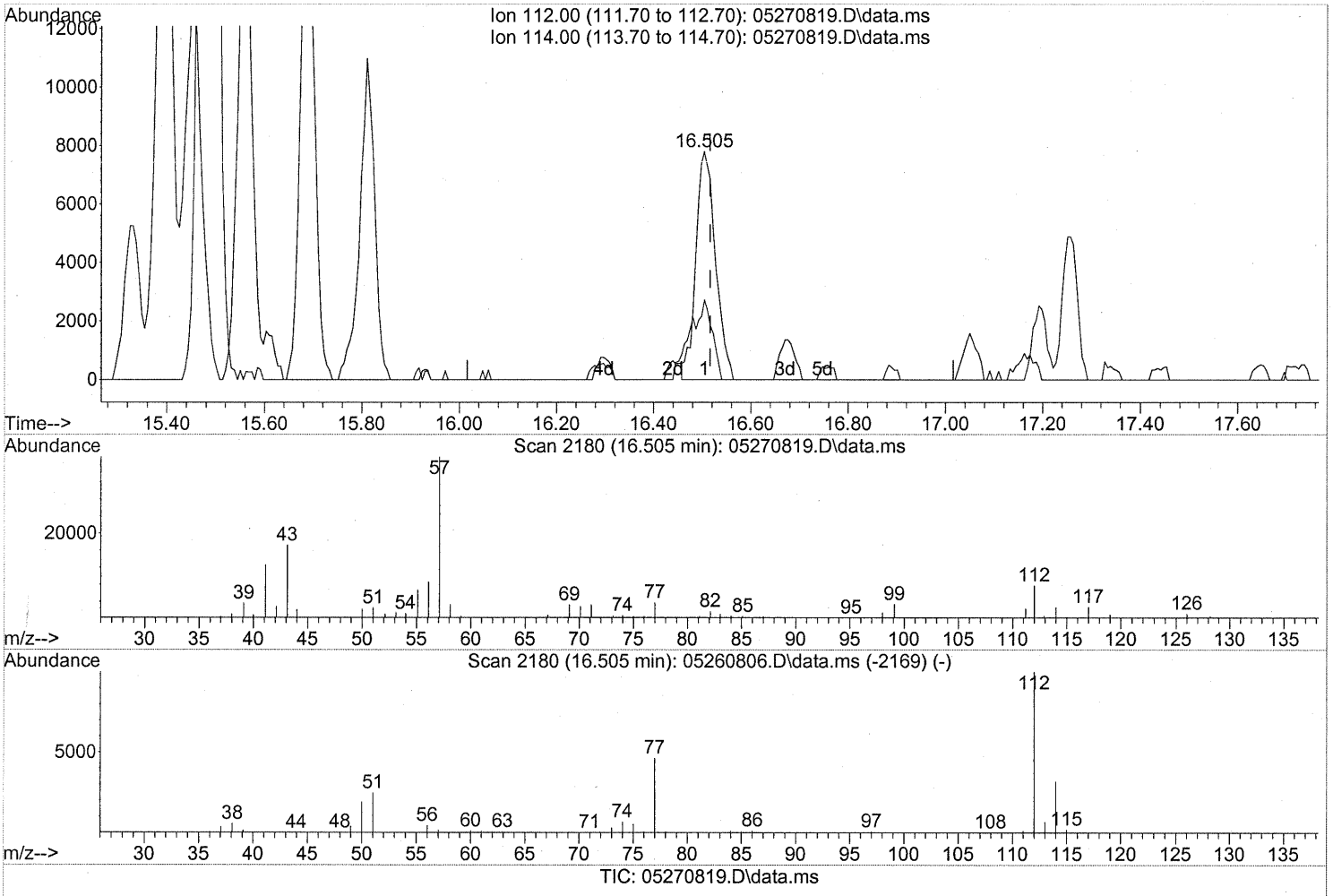
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	79.23
0.00	0.00	0.00
0.00	0.00	0.00

554

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(65) Chlorobenzene (T)

16.505min (-0.012) 0.40ng

response 21858

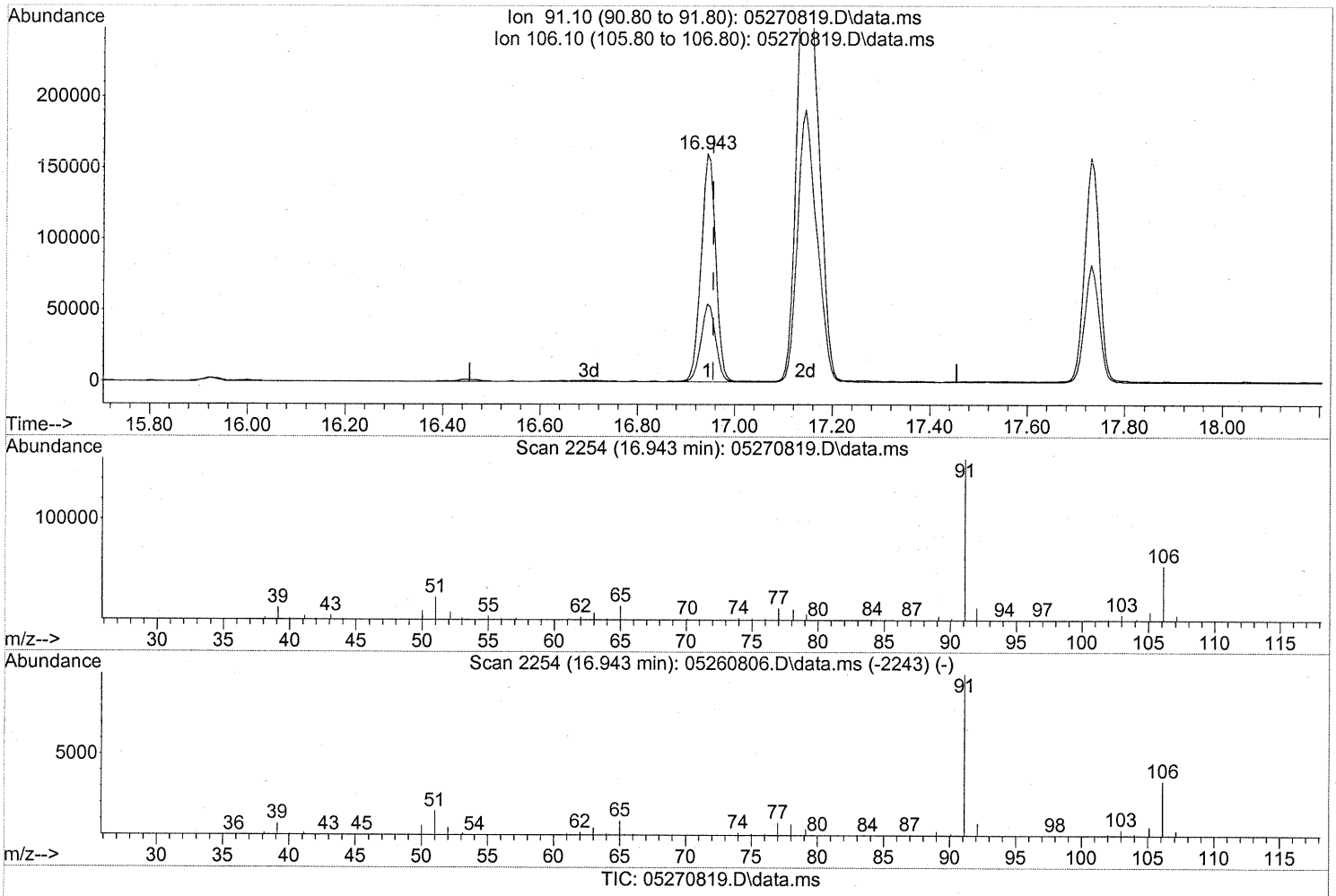
Ion	Exp%	Act%
112.00	100	100
114.00	32.10	19.83
0.00	0.00	0.00
0.00	0.00	0.00

555

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(66) Ethylbenzene (T)

16.943min (-0.012) 3.87ng

response 335103

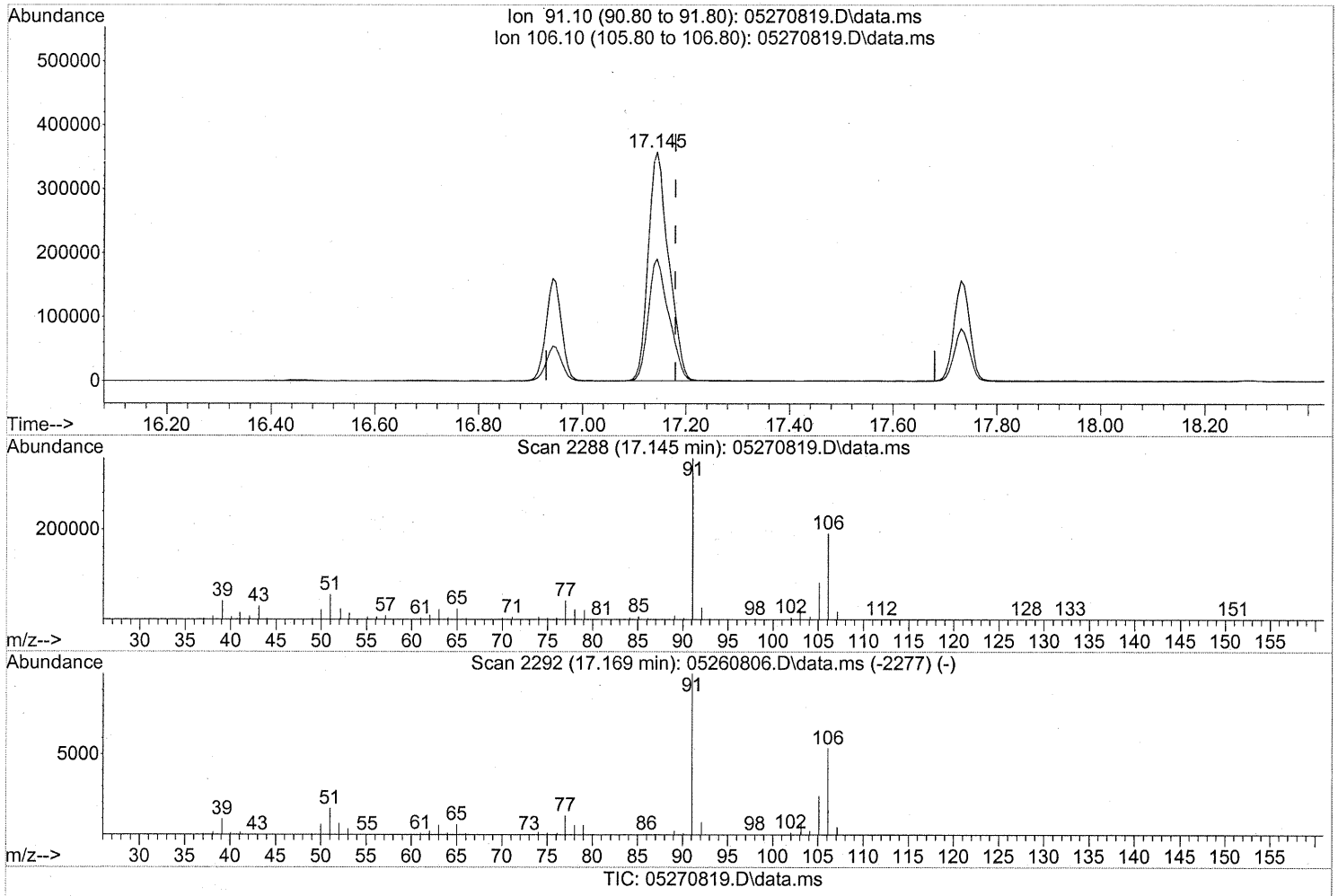
Ion	Exp%	Act%
91.10	100	100
106.10	29.90	33.75
0.00	0.00	0.00
0.00	0.00	0.00

556

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

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

17.145min (-0.036) 17.12ng

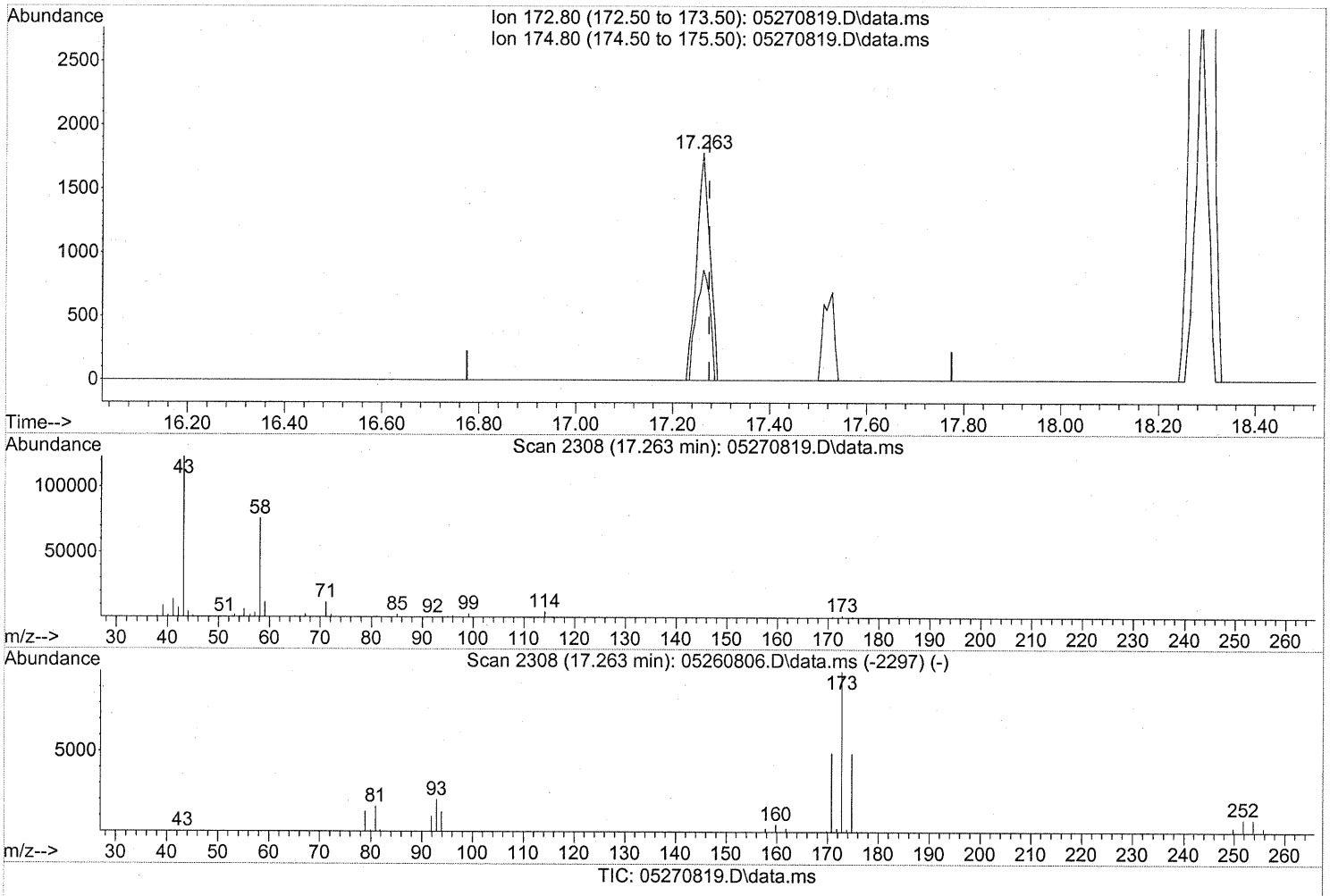
response 982619

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.29
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(68) Bromoform (T)

17.263min (-0.012) 0.26ng

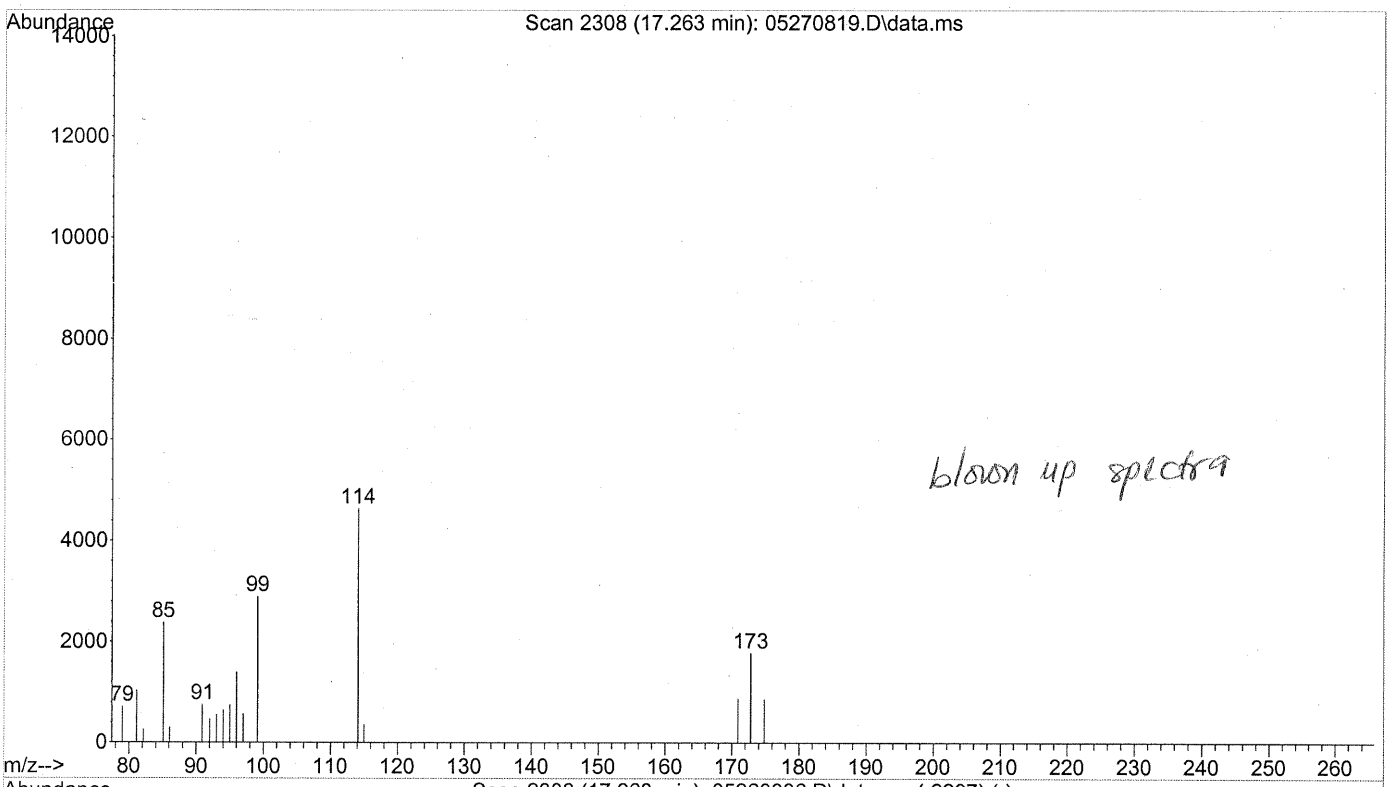
response 3418

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	50.03
0.00	0.00	0.00
0.00	0.00	0.00

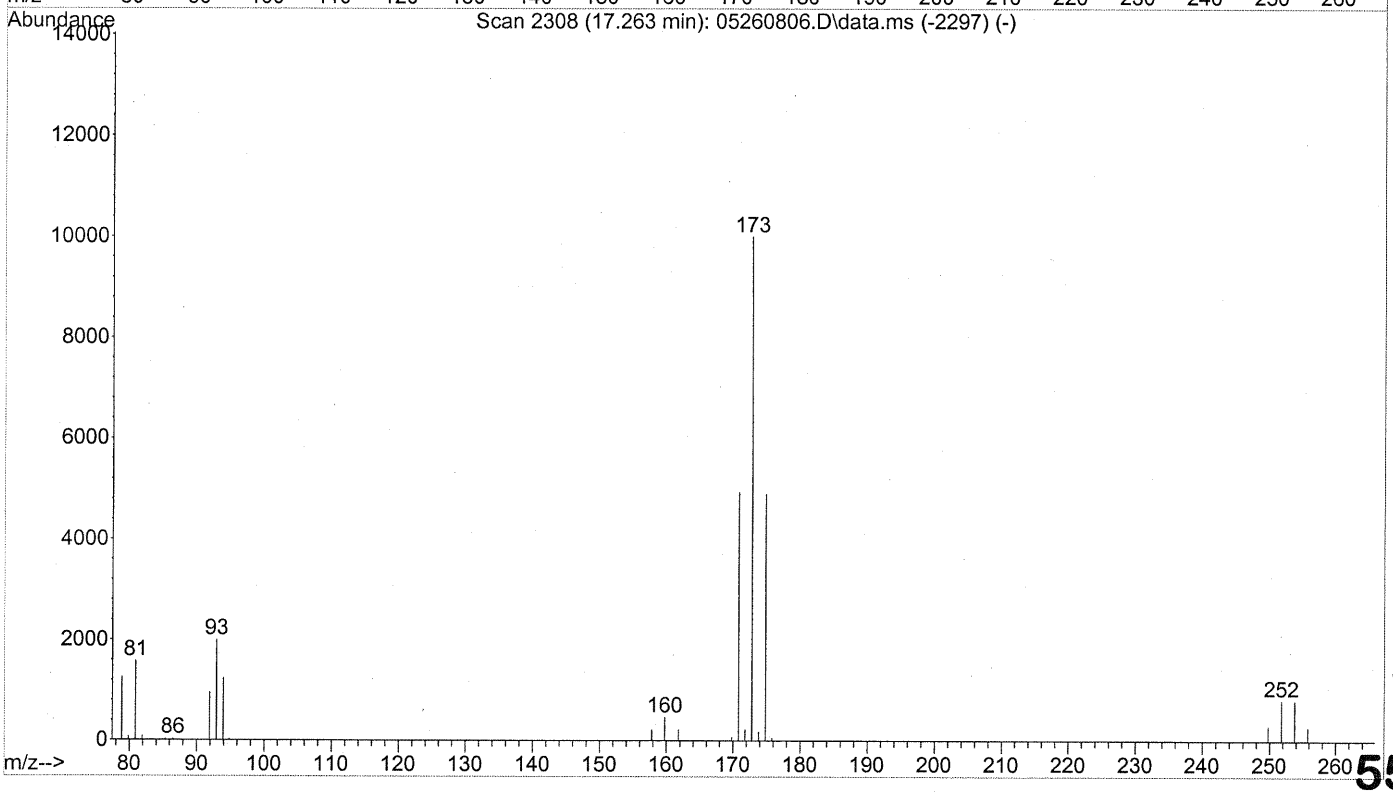
before blown up

558

File :J:\MS16\DATA\2008_05\27\05270819.D
Operator : WA
Acquired : 28 May 2008 00:18 using AcqMethod TO15.M
Instrument : GCMS-16
Sample Name: P0801507-014 (1000ml)
Misc Info : ENSR SG14B-05 (-3.5, 3.6)
Vial Number: 11



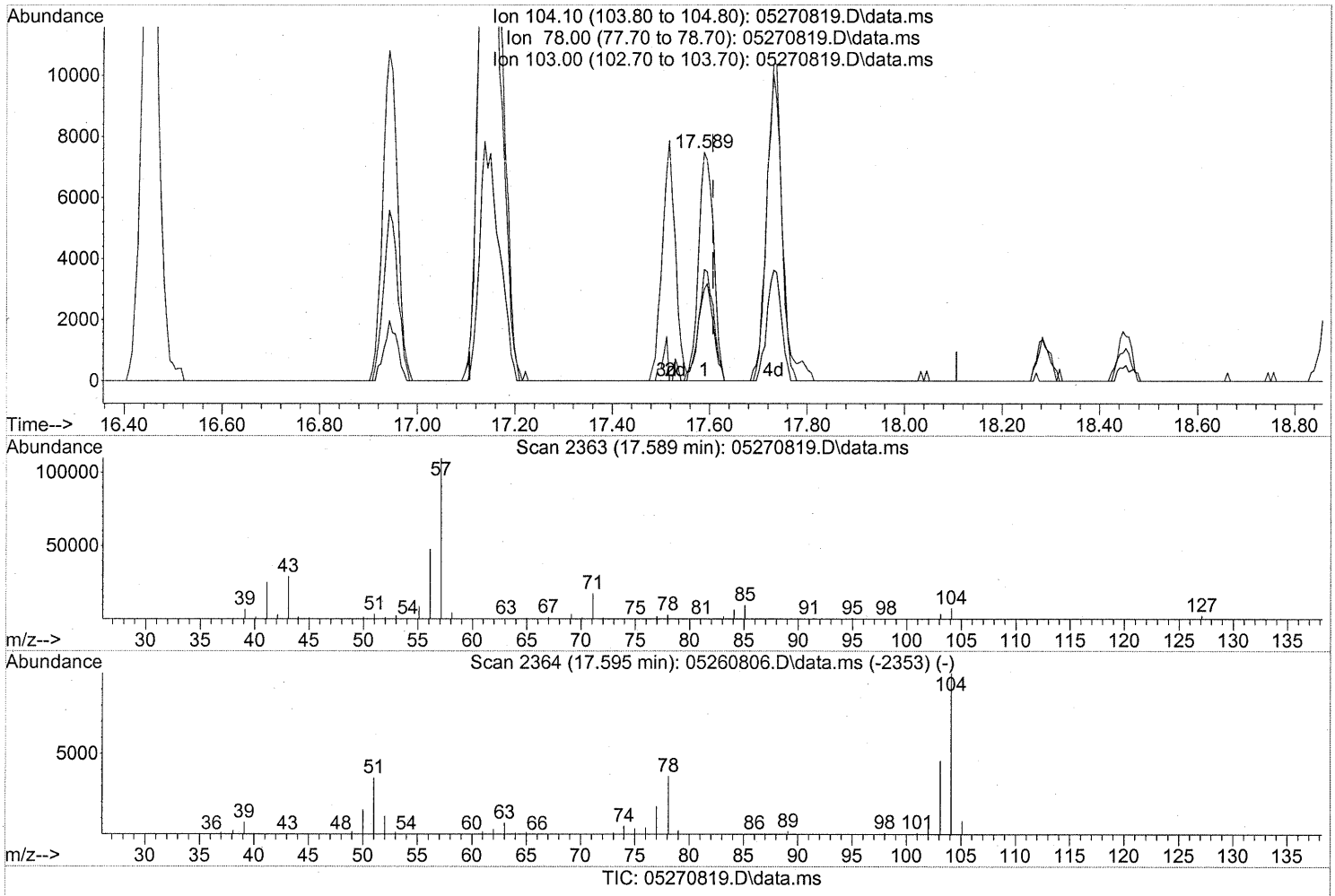
blown up spectra



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(69) Styrene (T)

17.589min (-0.018) 0.29ng

response 16061

Ion	Exp%	Act%
104.10	100	100
78.00	43.30	43.00
103.00	47.60	48.55
0.00	0.00	0.00

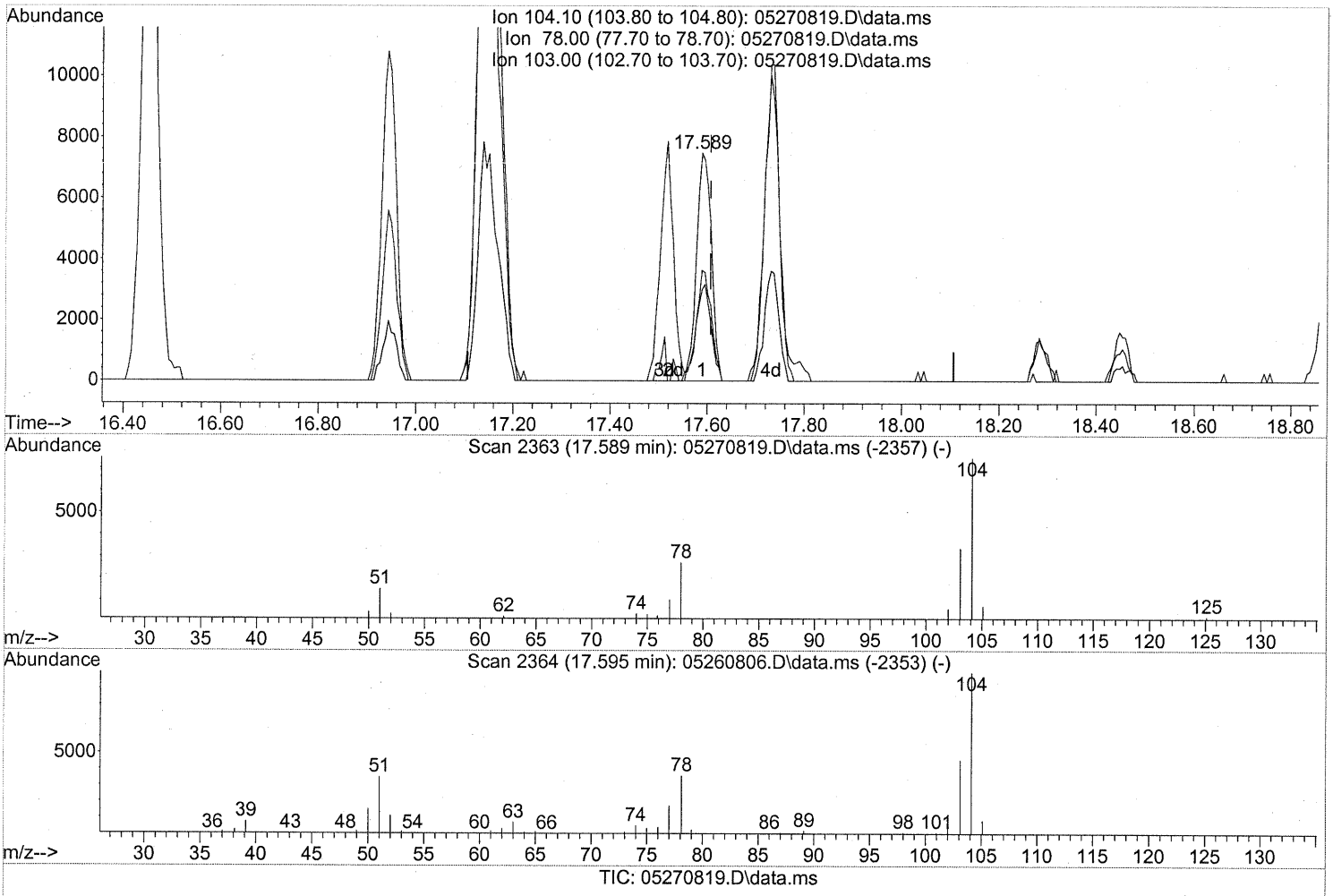
before

560

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(69) Styrene (T)

17.589min (-0.018) 0.29ng

response 16061

Ion	Exp%	Act%
104.10	100	100
78.00	43.30	43.00
103.00	47.60	48.55
0.00	0.00	0.00

after subst.

JDA 6/4/08

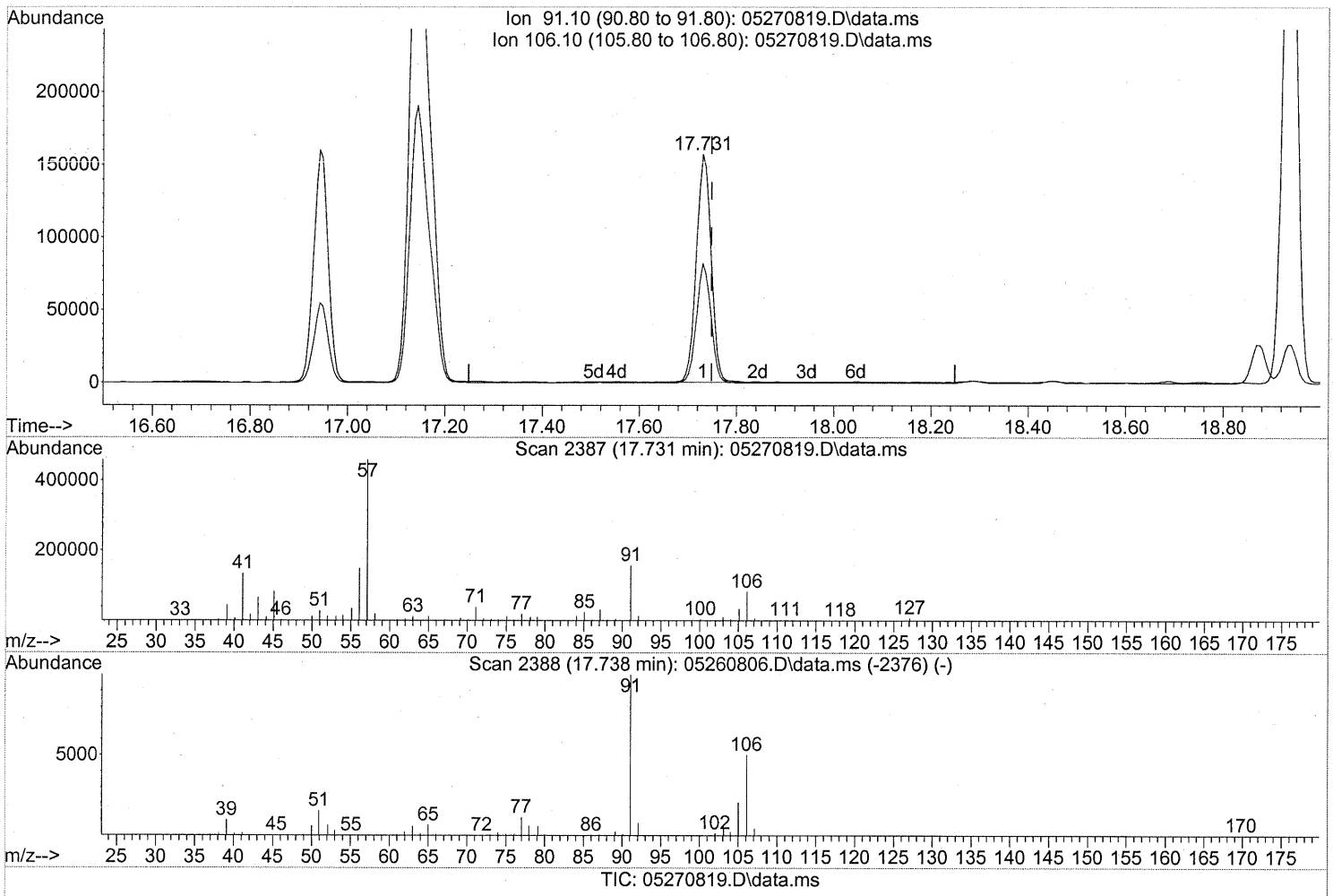
C. 6/4/08

561

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(70) o-Xylene (T)

17.731min (-0.018) 5.43ng

response 333449

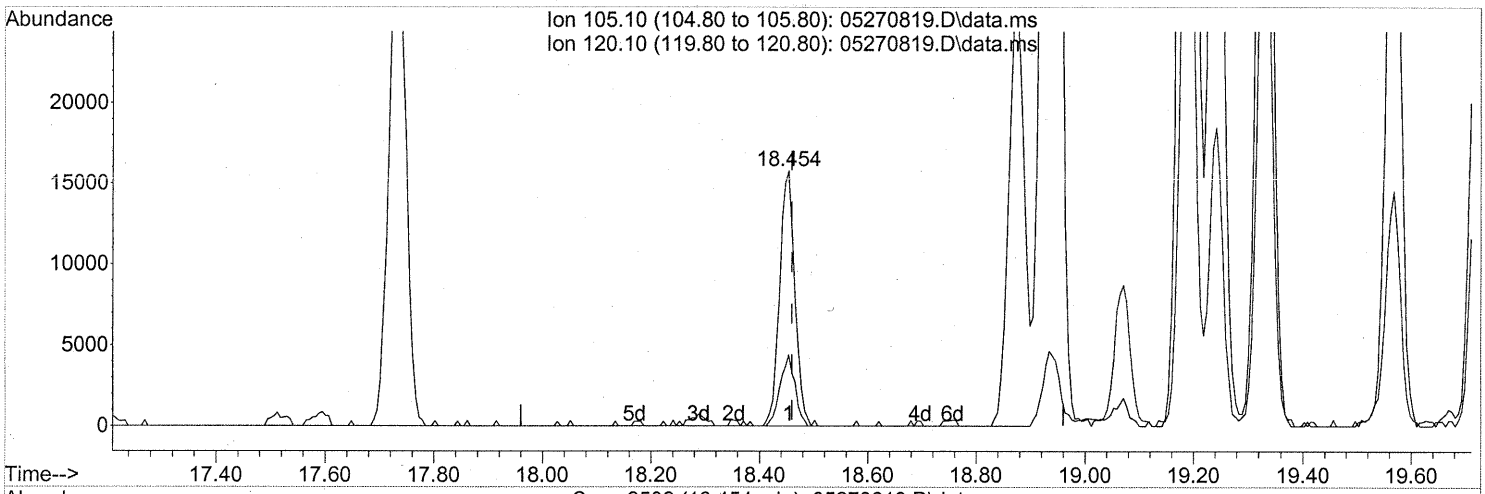
Ion	Exp%	Act%
91.10	100	100
106.10	45.90	50.93
0.00	0.00	0.00
0.00	0.00	0.00

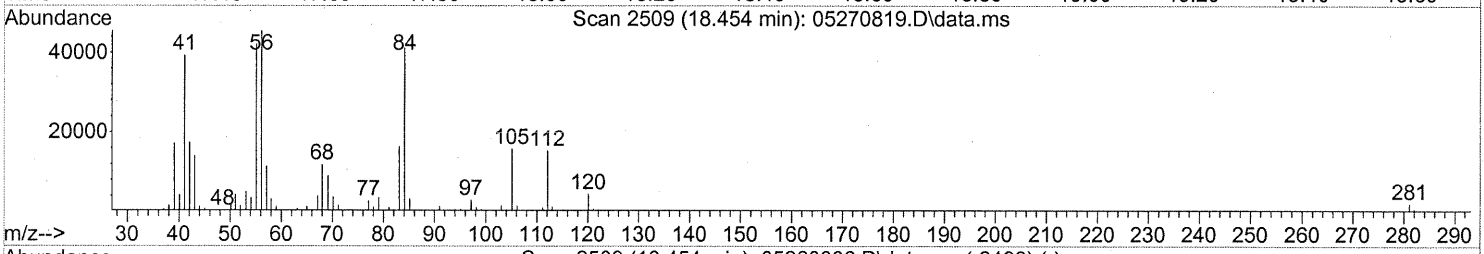
562

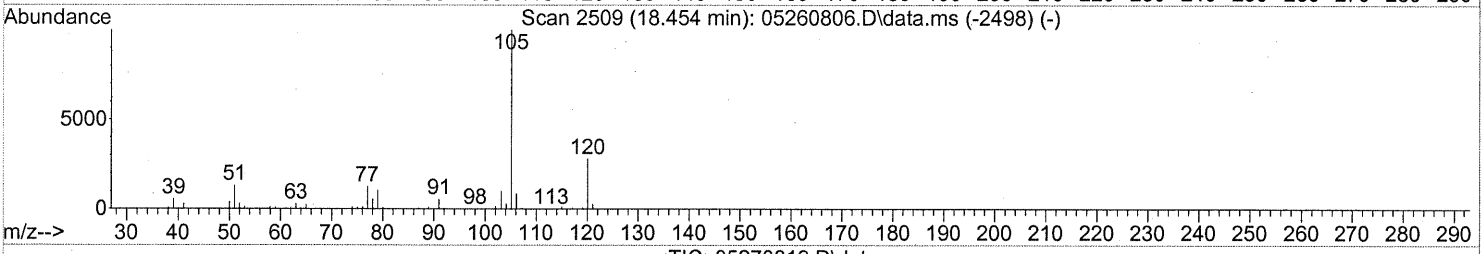
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(74) Cumene (T)

18.454min (-0.006) 0.35ng

response 30977

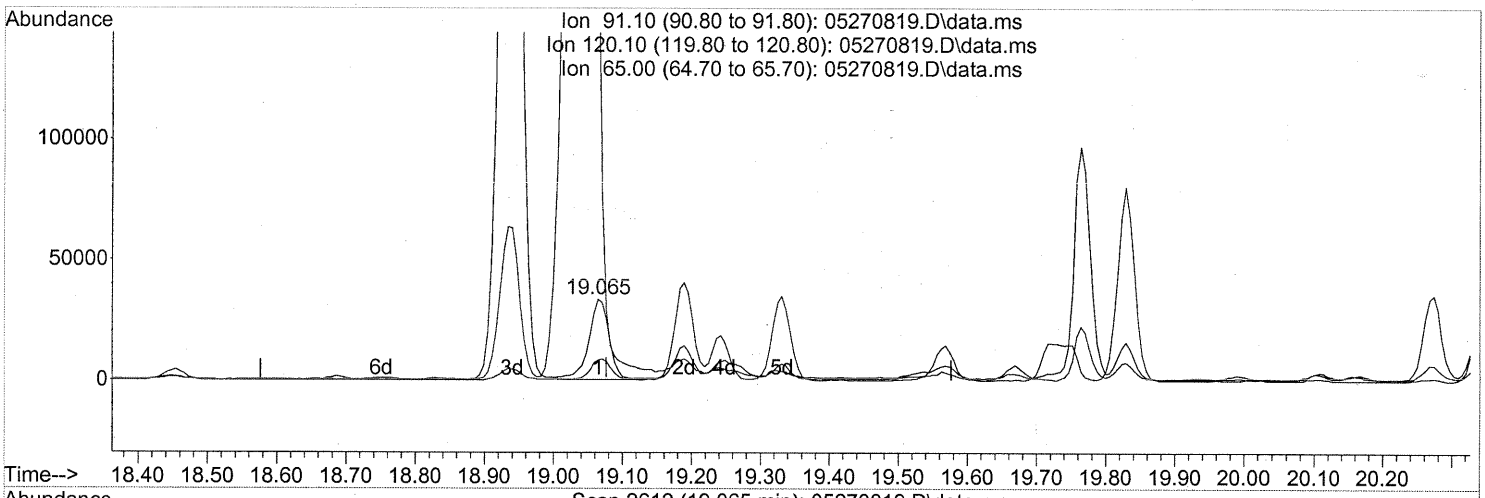
Ion	Exp%	Act%
105.10	100	100
120.10	25.60	27.01
0.00	0.00	0.00
0.00	0.00	0.00

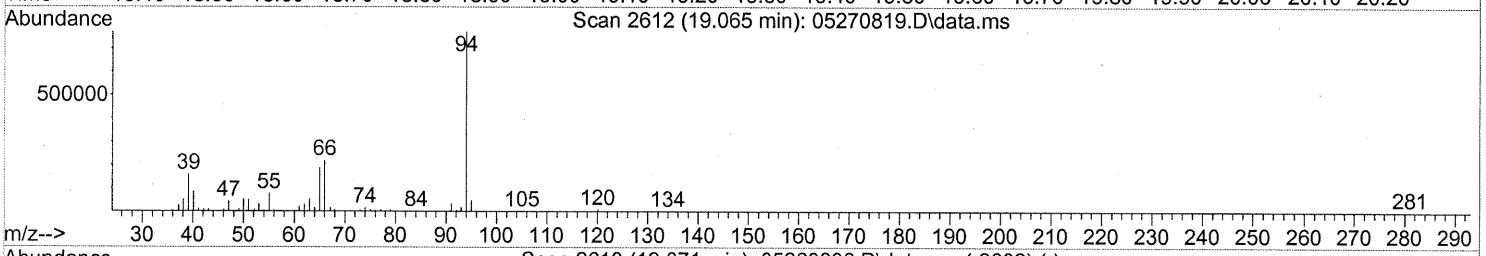
563

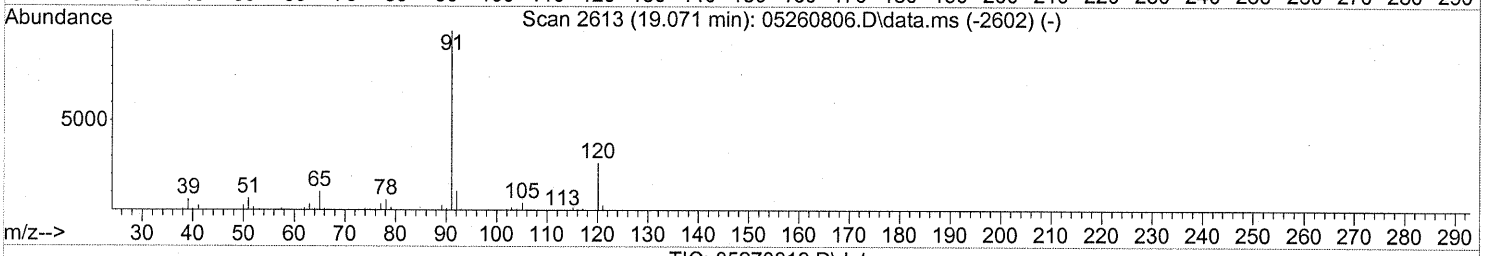
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(76) n-Propylbenzene (T)

19.065min (-0.012) 0.66ng

response 68515

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	26.08
65.00	10.40	0.00
0.00	0.00	0.00

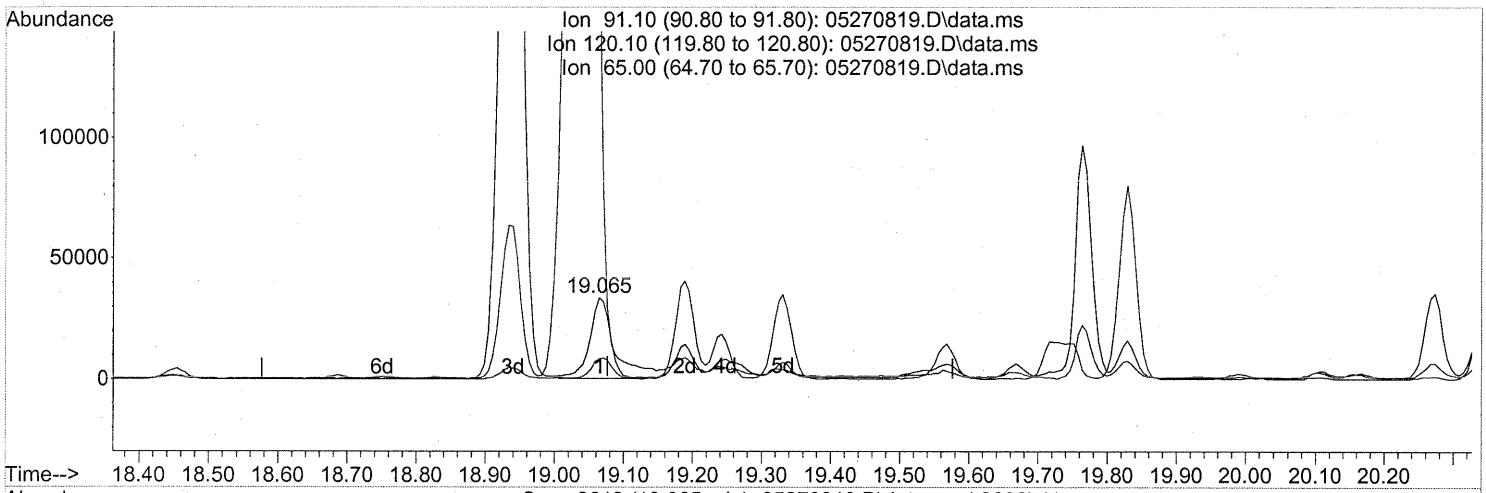
before

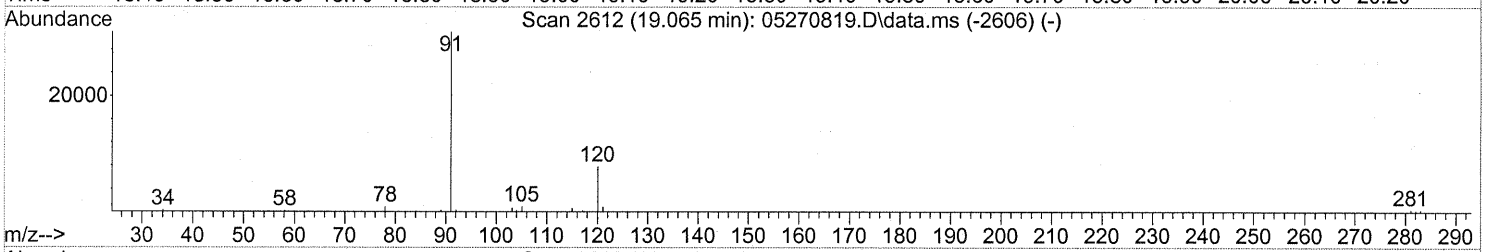
564

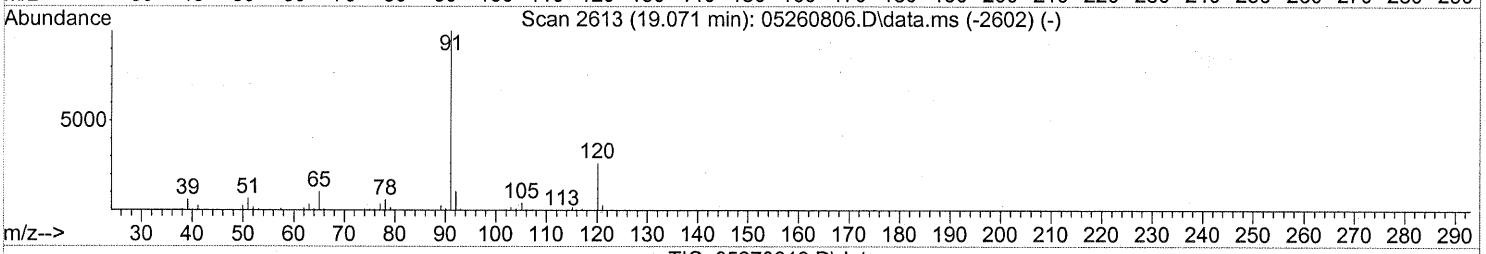
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(76) n-Propylbenzene (T)

19.065min (-0.012) 0.66ng

response 68515

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	26.08
65.00	10.40	0.00
0.00	0.00	0.00

after subst.

JDA 6/4/08

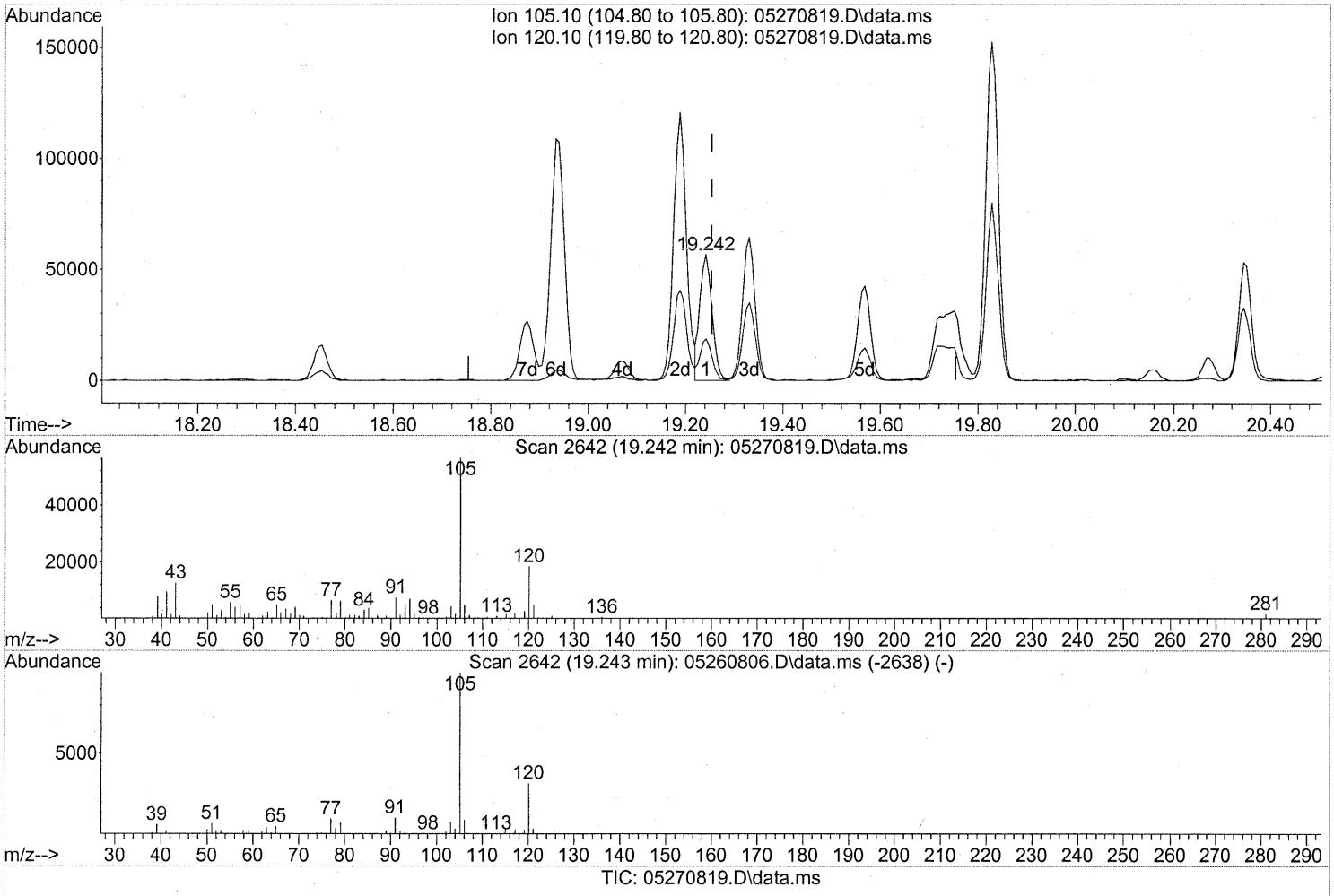
6/4/08

565

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(78) 4-Ethyltoluene (T)

19.242min (-0.012) 1.12ng

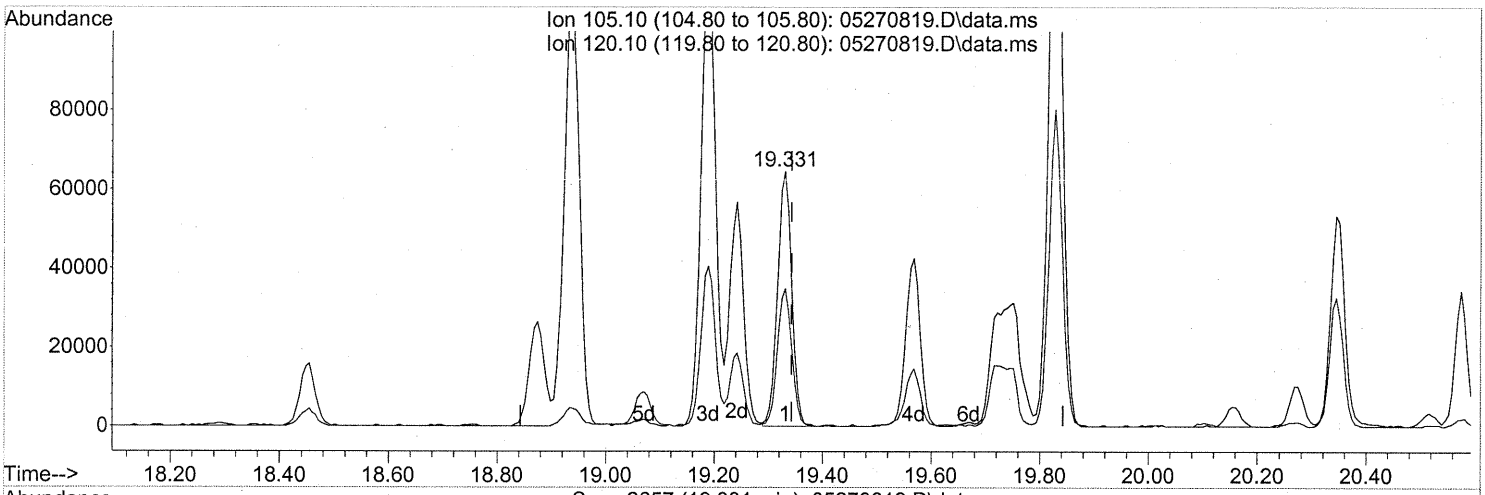
response 99070

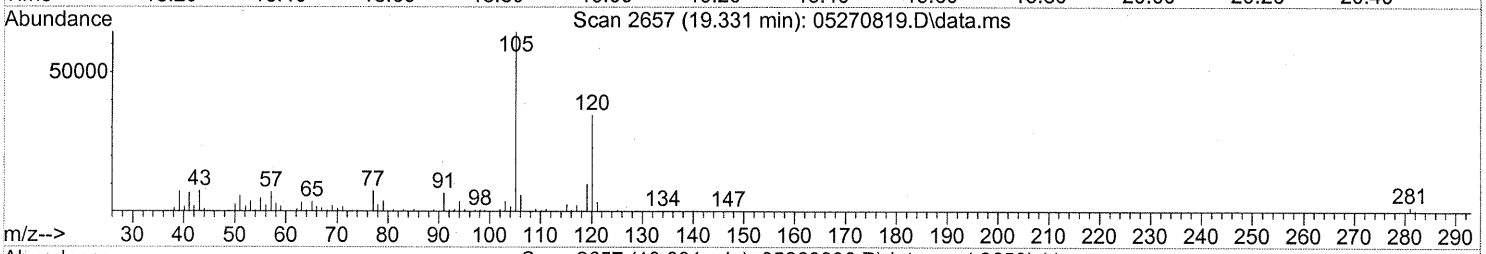
Ion	Exp%	Act%
105.10	100	100
120.10	28.60	32.53
0.00	0.00	0.00
0.00	0.00	0.00

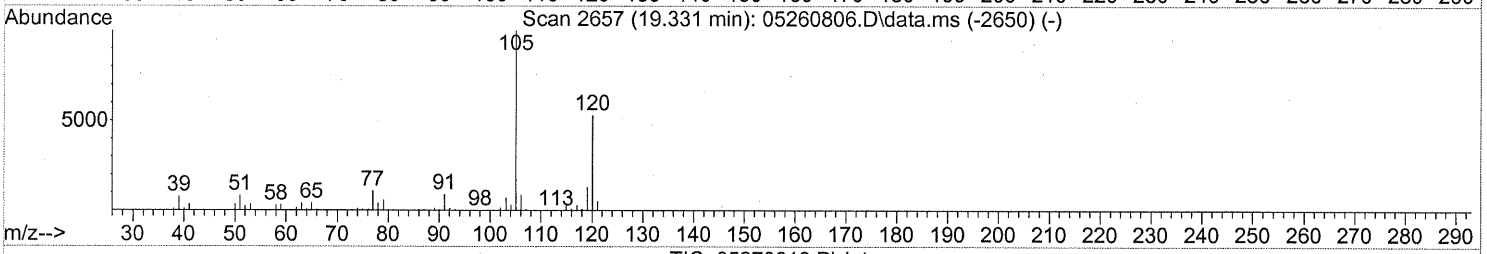
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

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

19.331min (-0.012) 1.49ng

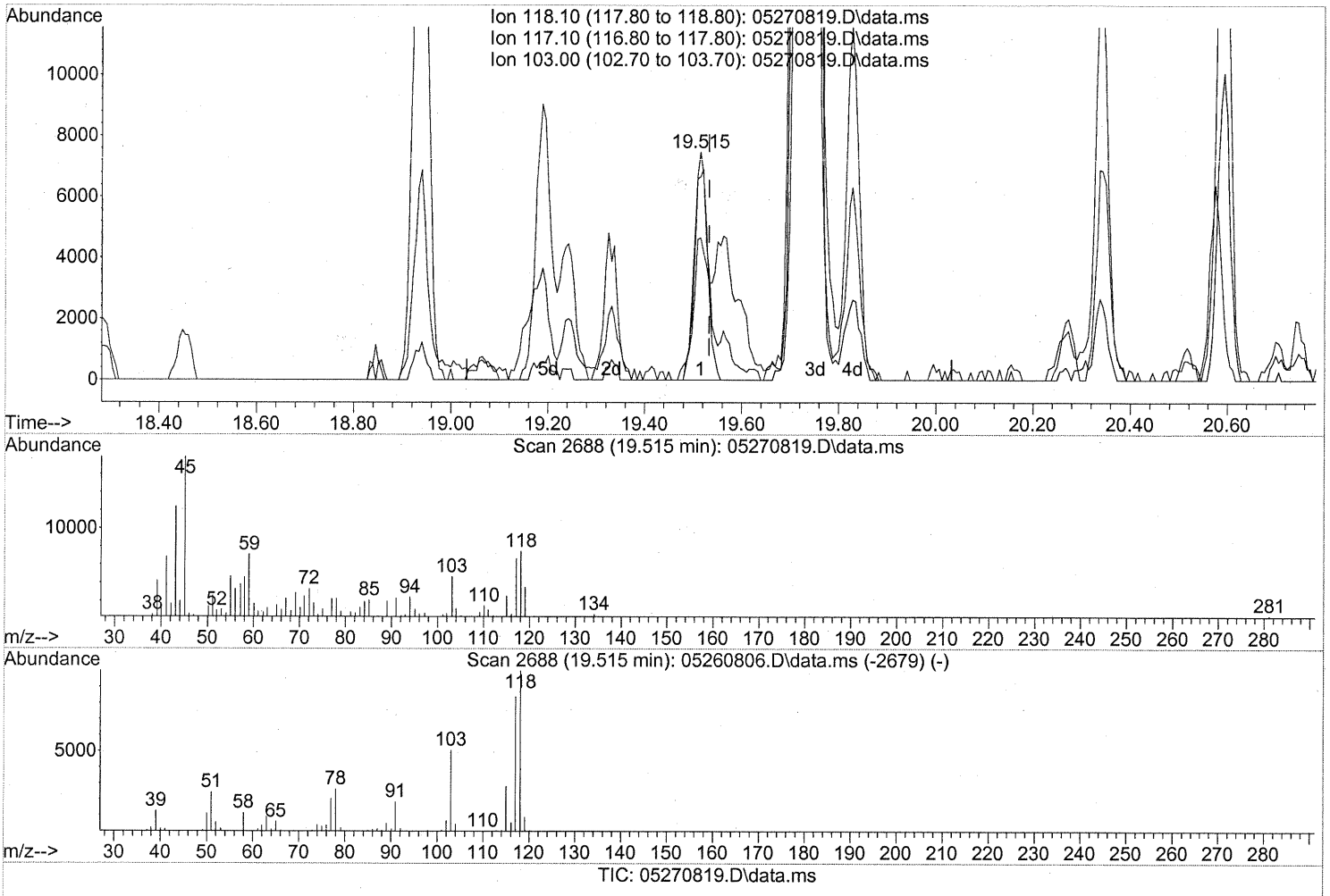
response 117091

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	55.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(80) alpha-Methylstyrene (T)

19.515min (-0.018) 0.32ng

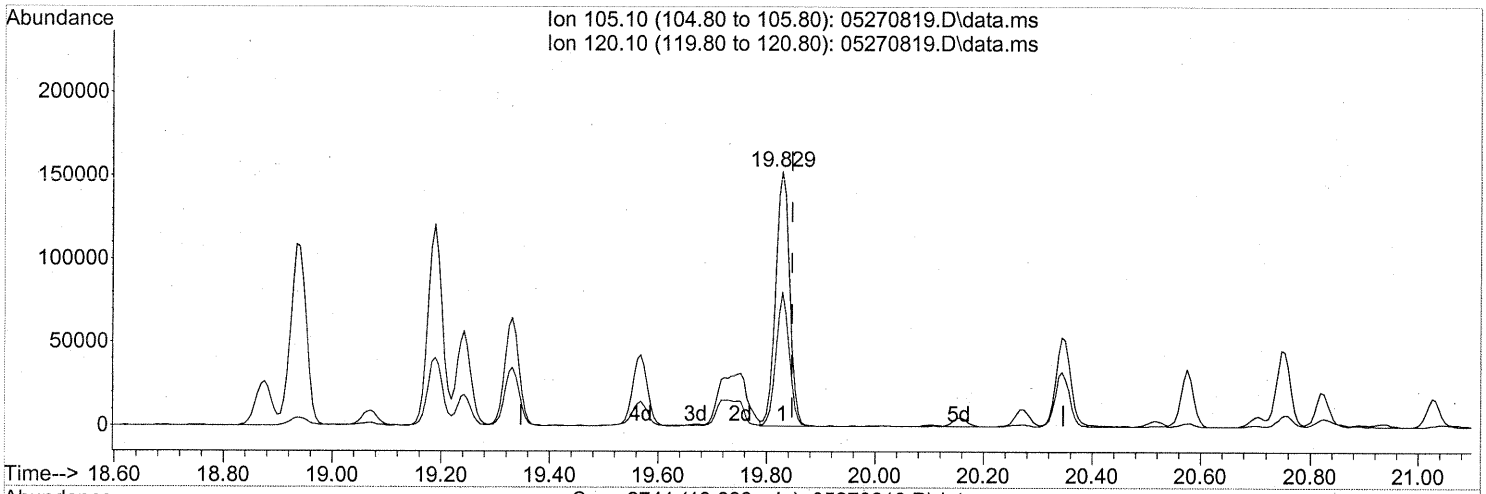
response 14223

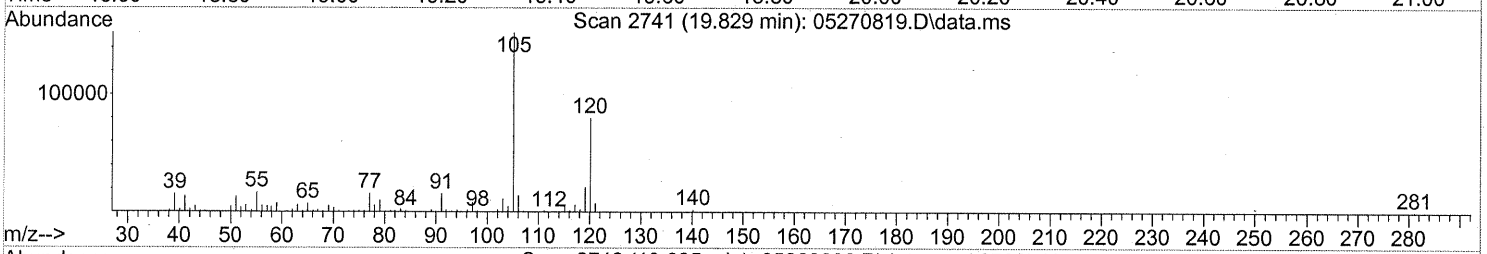
Ion	Exp%	Act%
118.10	100	100
117.10	85.30	122.57#
103.00	55.10	73.61
0.00	0.00	0.00

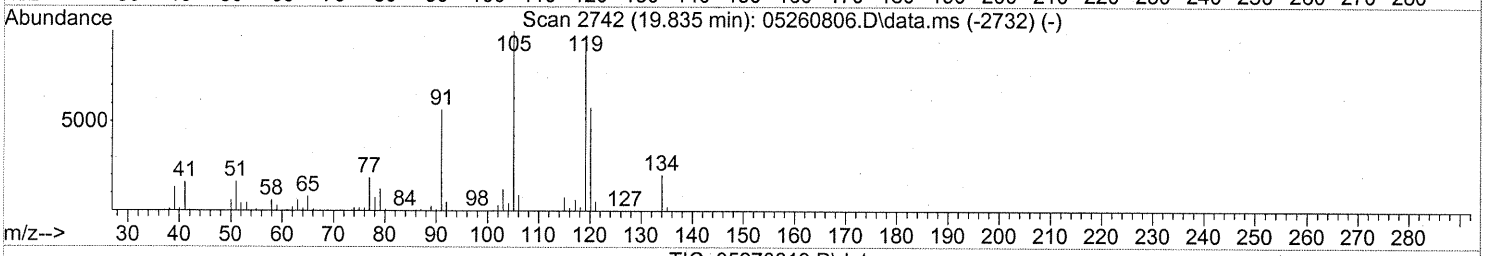
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

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

19.829min (-0.018) 3.48ng

response 276191

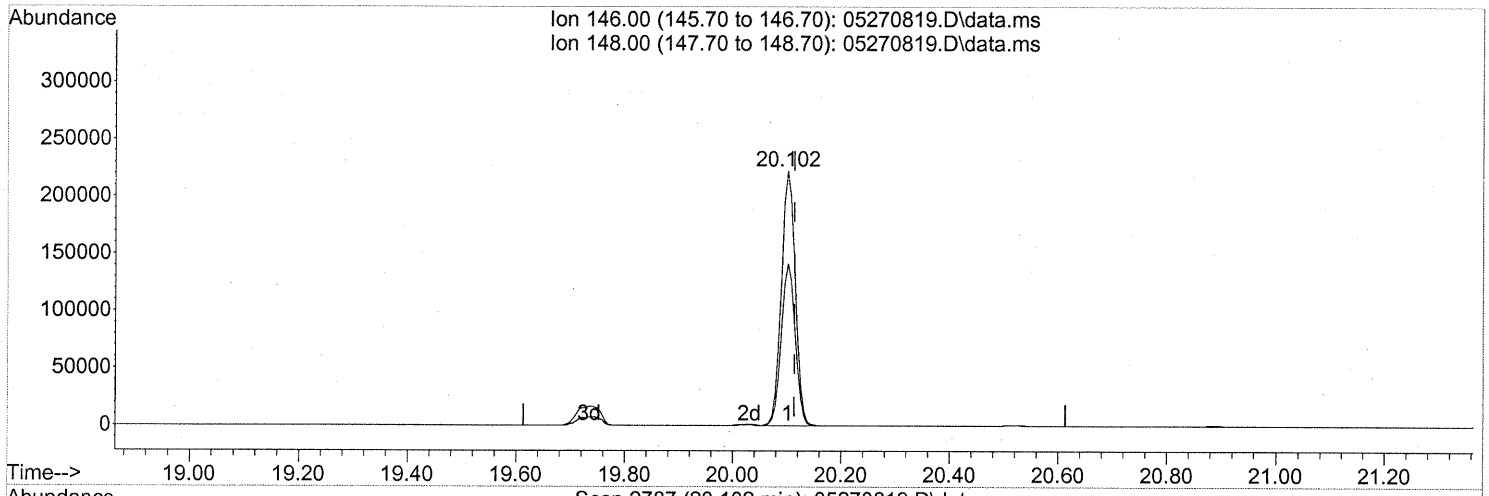
Ion	Exp%	Act%
105.10	100	100
120.10	51.70	49.64
0.00	0.00	0.00
0.00	0.00	0.00

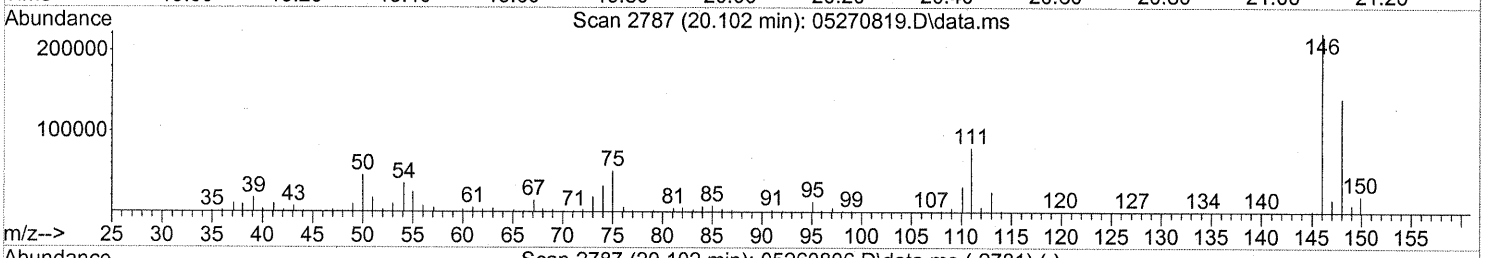
569

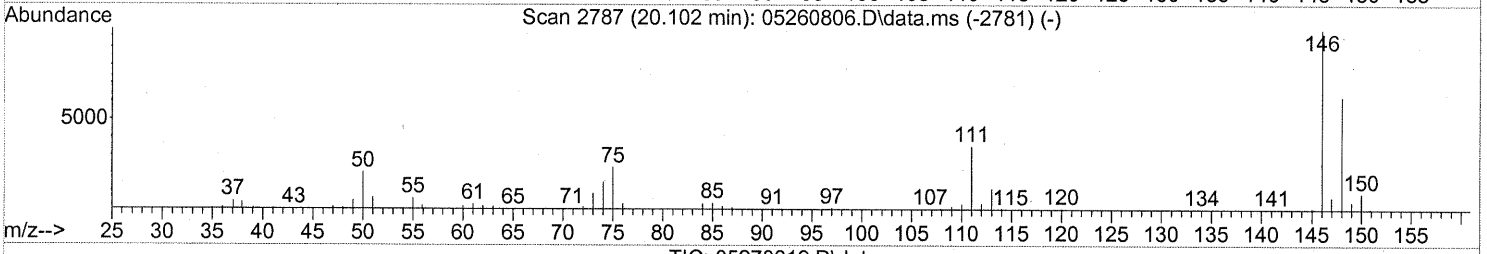
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 8.13ng

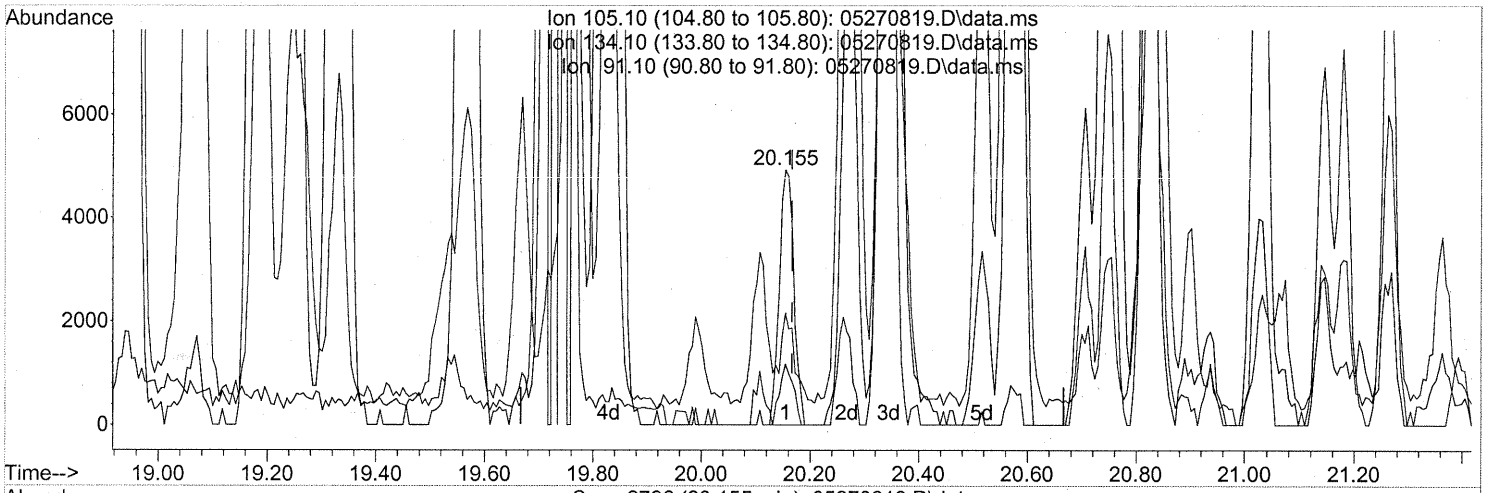
response 397262

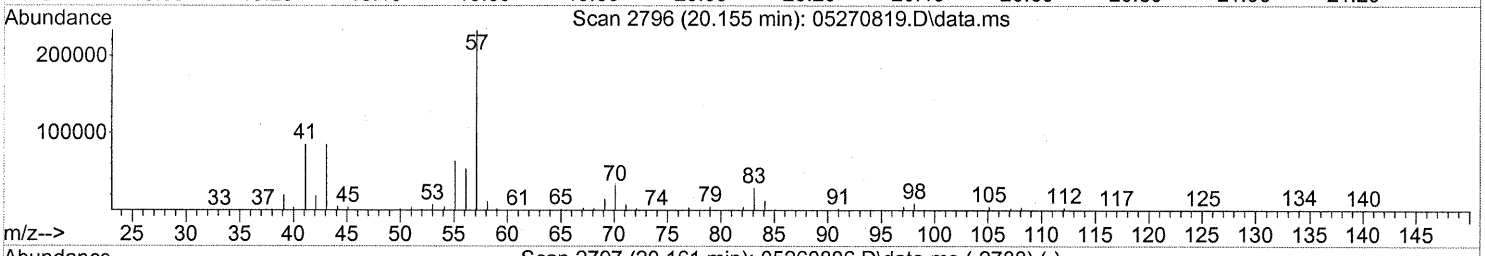
Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.67
0.00	0.00	0.00
0.00	0.00	0.00

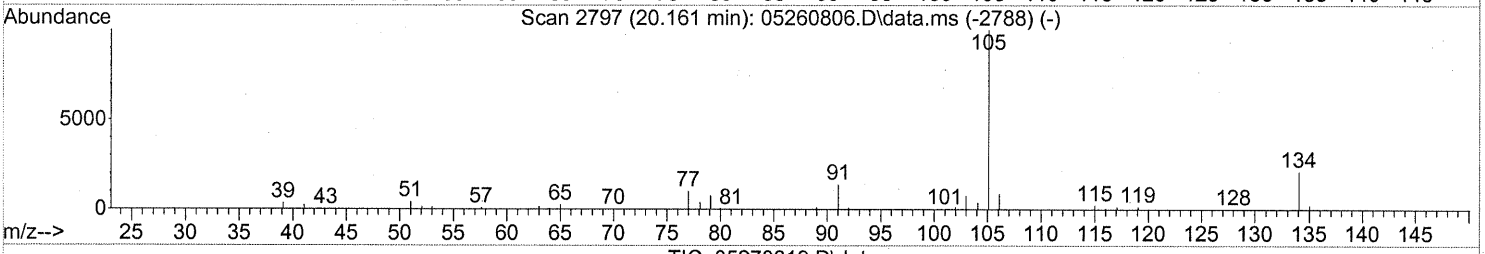
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(87) sec-Butylbenzene (T)

20.155min (-0.012) 0.09ng

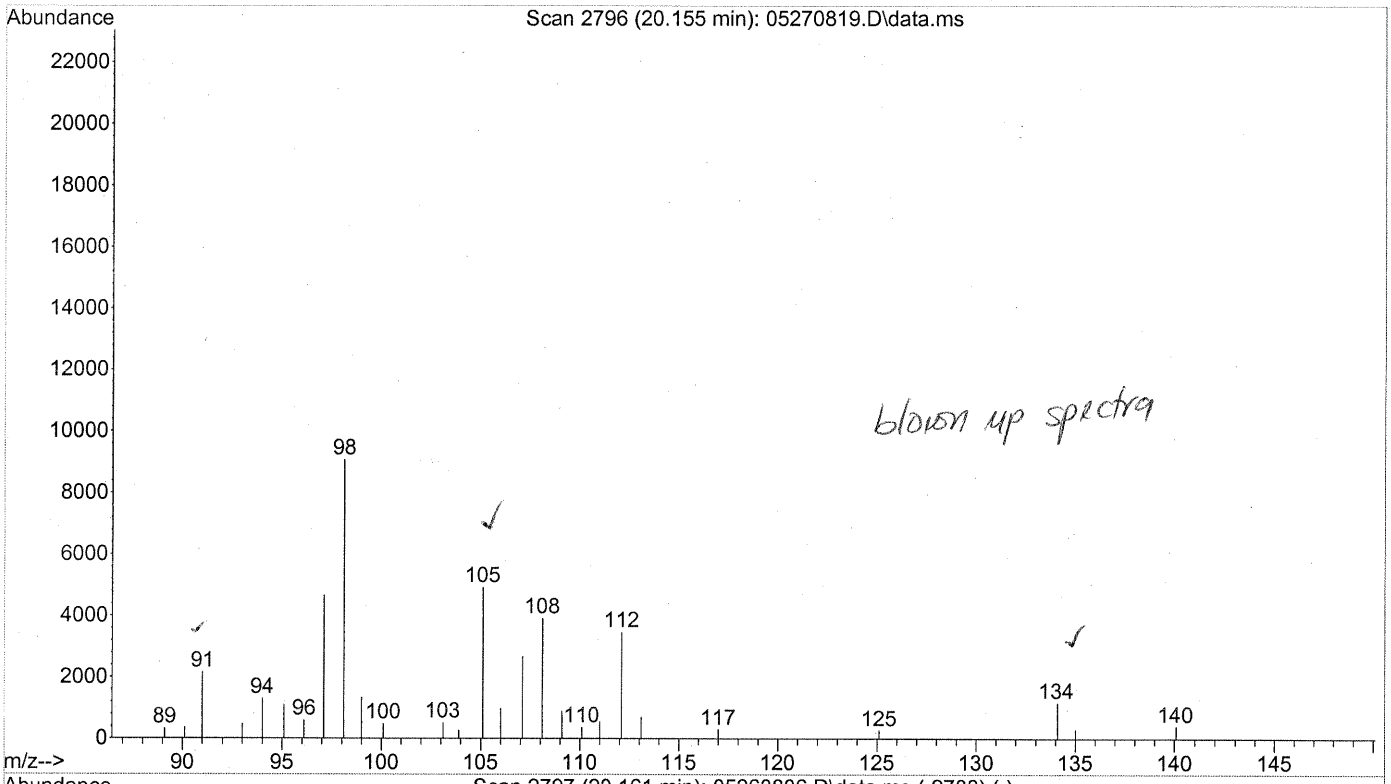
response 9174

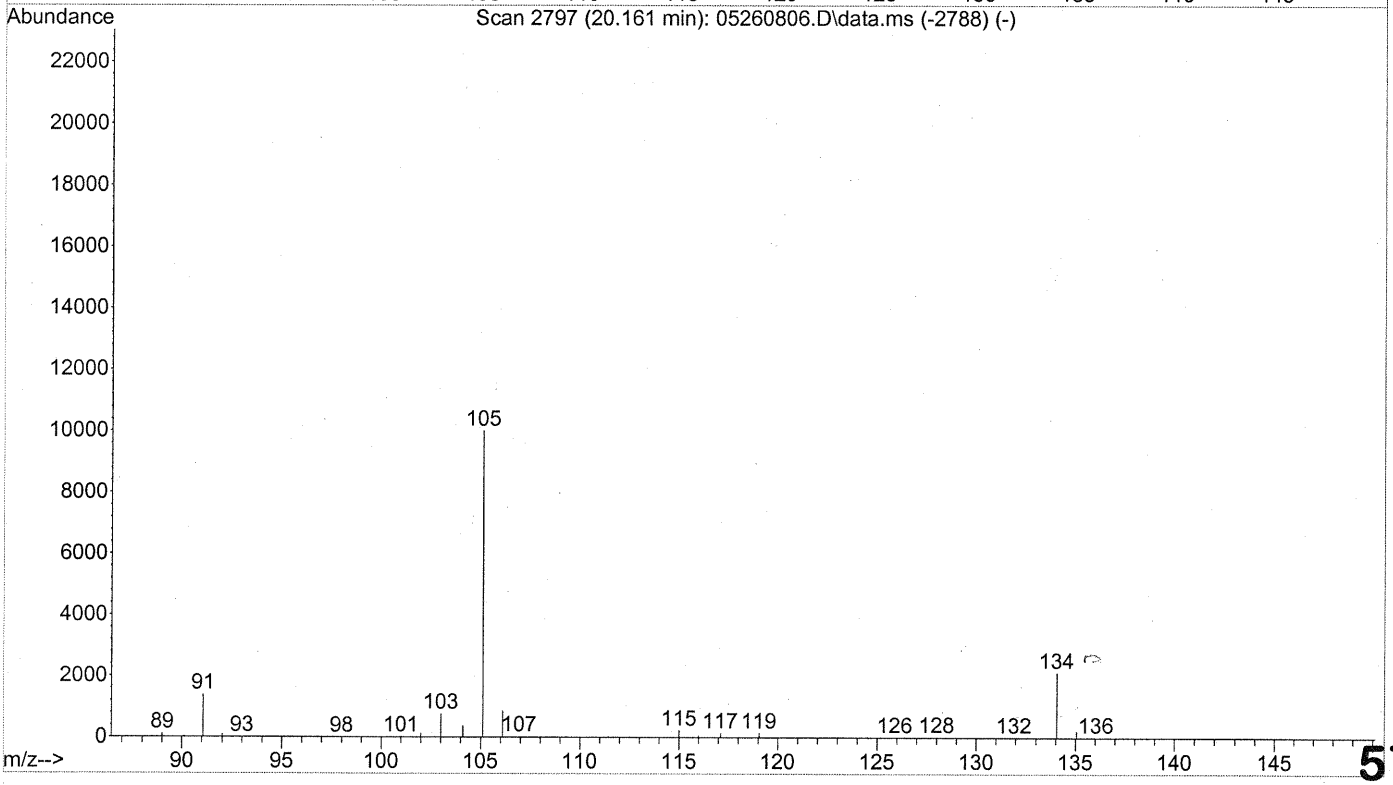
Ion	Exp%	Act%
105.10	100	100
134.10	18.30	22.43
91.10	15.40	30.01
0.00	0.00	0.00

see blown up spectra

571

File :J:\MS16\DATA\2008_05\27\05270819.D
Operator : WA
Acquired : 28 May 2008 00:18 using AcqMethod TO15.M
Instrument : GCMS-16
Sample Name: P0801507-014 (1000ml)
Misc Info : ENSR SG14B-05 (-3.5, 3.6)
Vial Number: 11

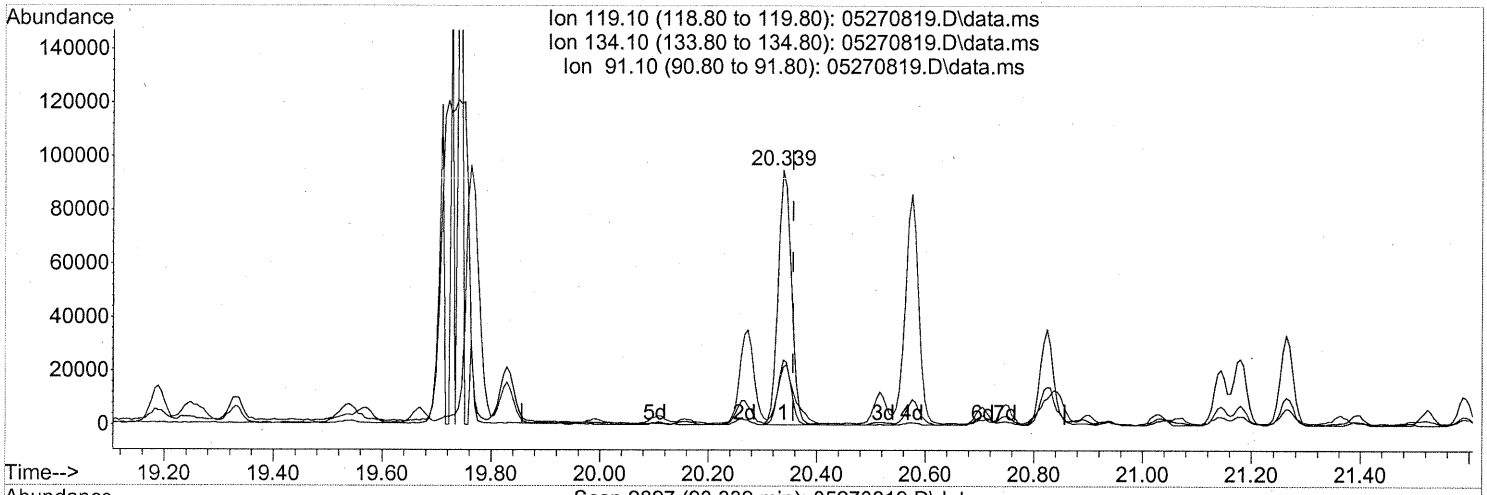


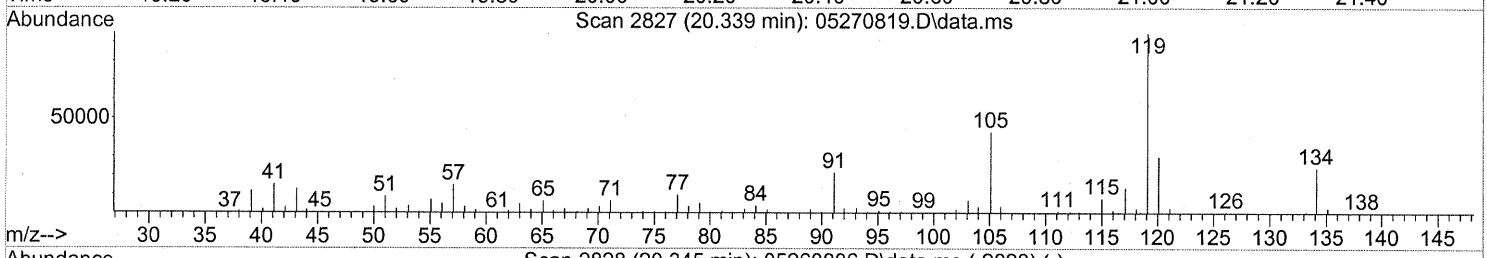


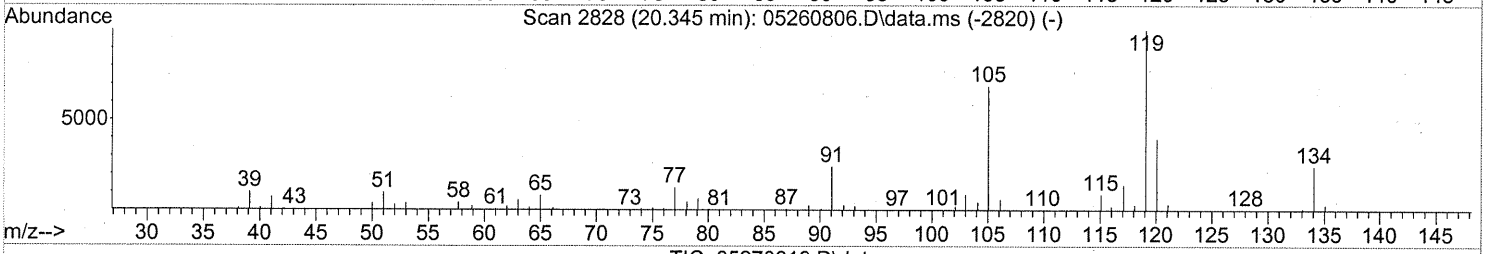
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(88) p-Isopropyltoluene (T)

20.339min (-0.018) 1.79ng

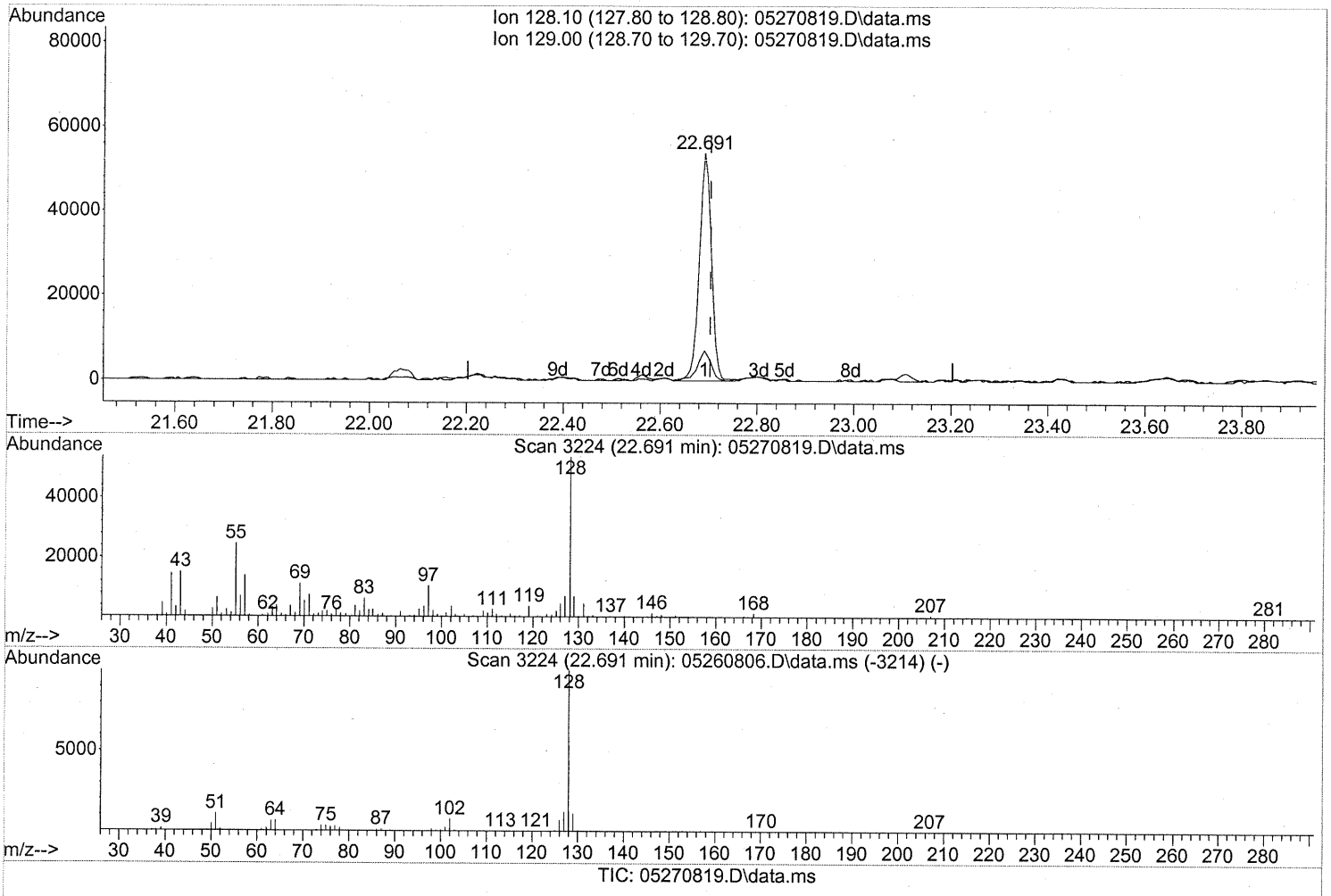
response 161629

Ion	Exp%	Act%
119.10	100	100
134.10	23.00	25.14
91.10	30.60	29.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270819.D\data.ms

(95) Naphthalene (T)

22.691min (-0.012) 0.81ng

response 93810

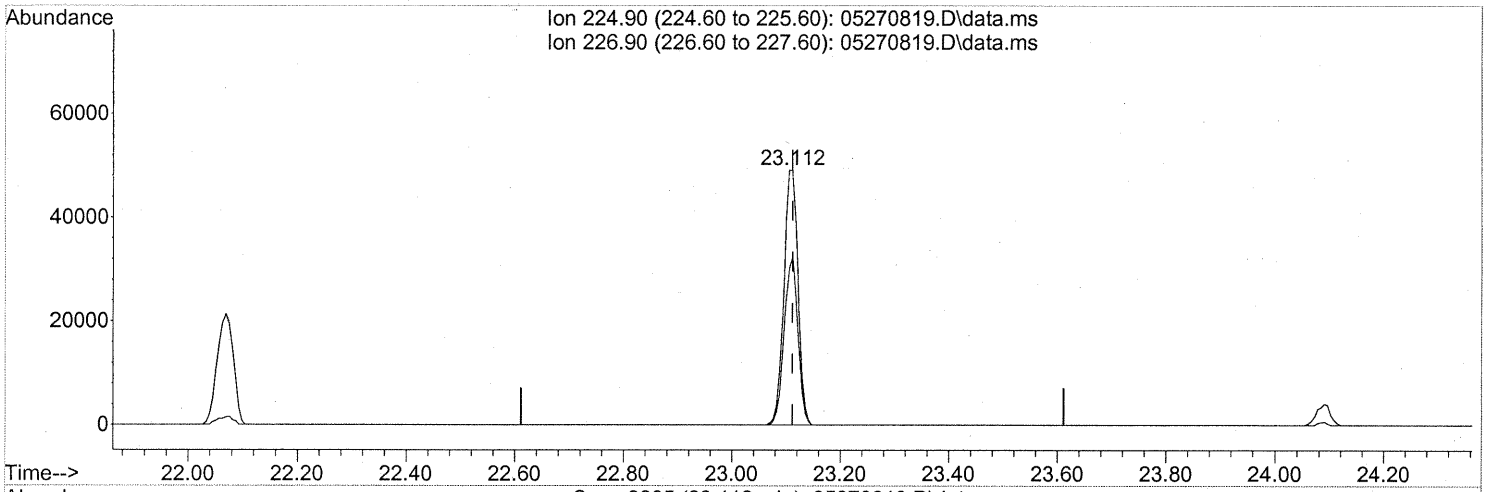
Ion	Exp%	Act%
128.10	100	100
129.00	10.40	14.74
0.00	0.00	0.00
0.00	0.00	0.00

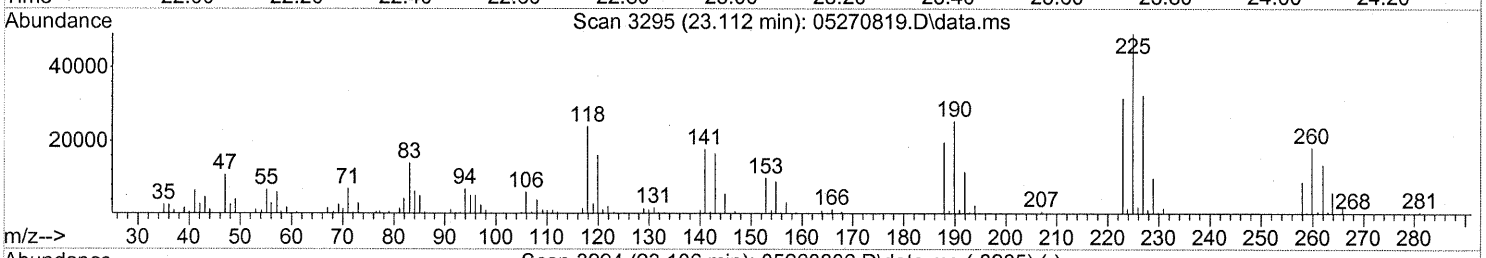
574

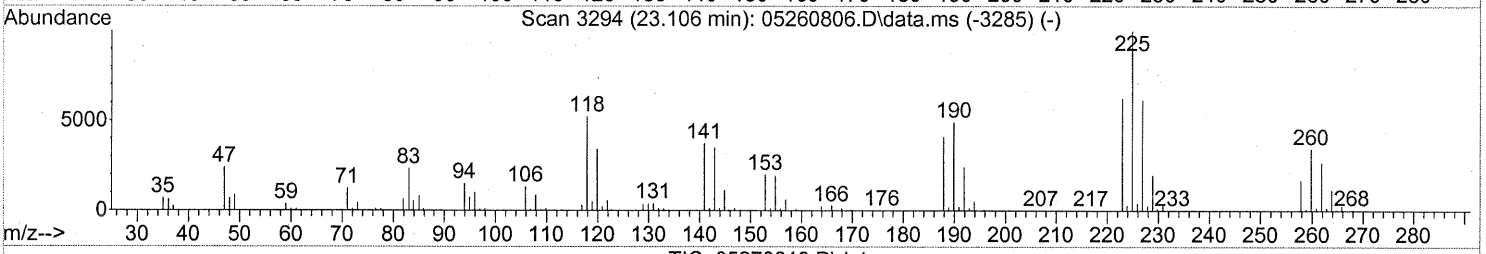
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 04:48:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(97) Hexachloro-1,3-butadiene (T)

23.112min (-0.000) 6.35ng

response 88219

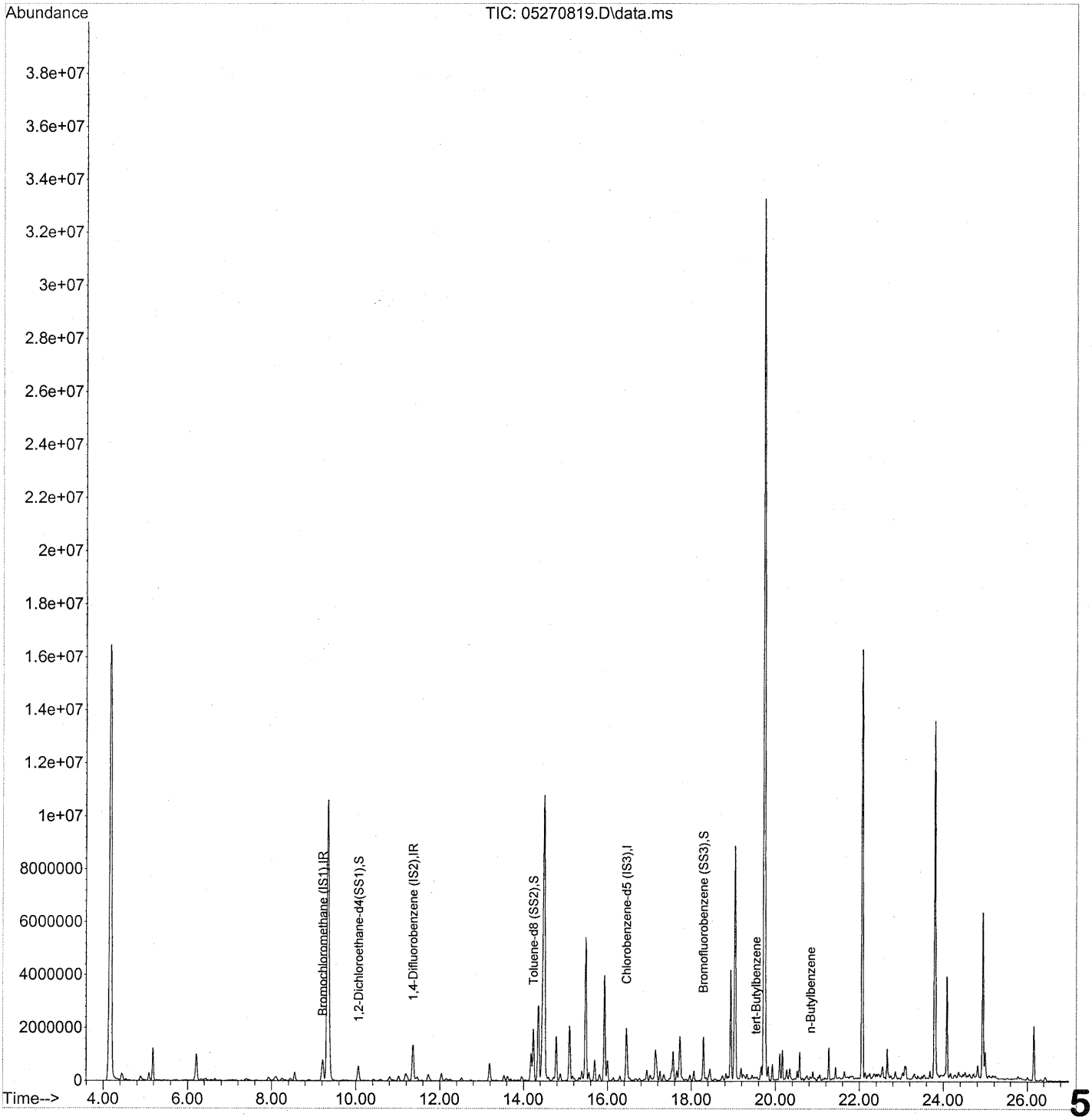
Ion	Exp%	Act%
224.90	100	100
226.90	63.00	64.12
0.00	0.00	0.00
0.00	0.00	0.00

575

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 14:39:35 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 14:39:35 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	379532	25.000	ng		-0.03
3) 1,4-Difluorobenzene (IS2)	11.36	114	1577066	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	651799	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.06	65	542292	24.988	ng		-0.03
Spiked Amount 25.000			Recovery = 99.96%				
5) Toluene-d8 (SS2)	14.24	98	1621346	24.128	ng		-0.01
Spiked Amount 25.000			Recovery = 96.52%				
6) Bromofluorobenzene (SS3)	18.29	174	573066	25.650	ng		0.00
Spiked Amount 25.000			Recovery = 102.60%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.54	119	16485	~~0.203~~ ng	JR		92
8) n-Butylbenzene	20.84	91	33595	0.435 ng	M	#	64

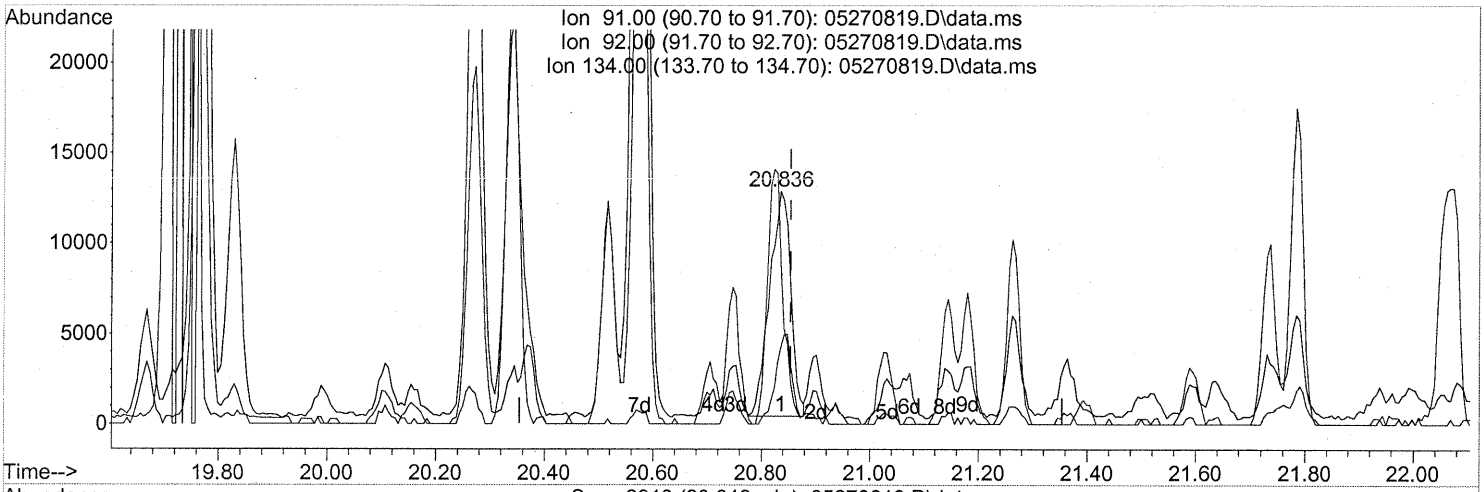
(#) = qualifier out of range (m) = manual integration (+) = signals summed

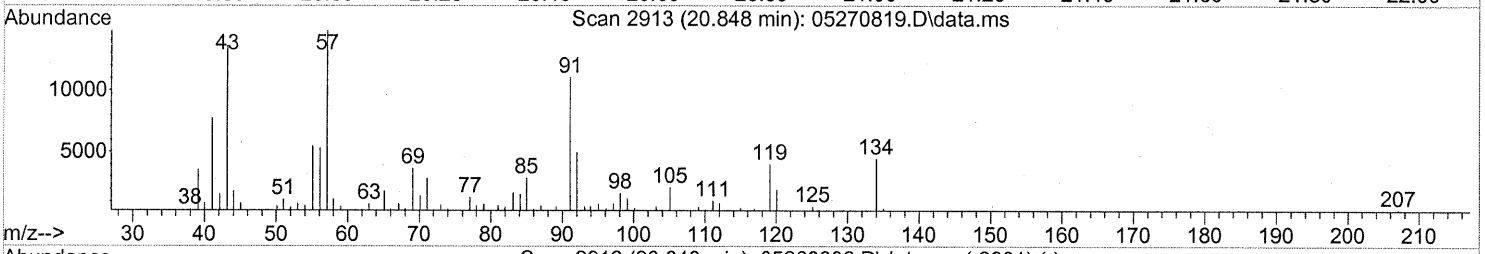
577

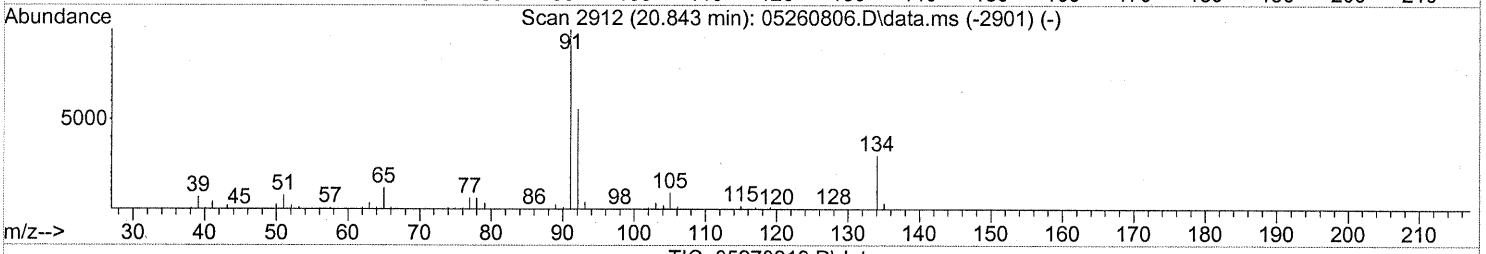
6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270819.D
Acq On : 28 May 2008 00:18
Operator : WA
Sample : P0801507-014 (1000ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 04 14:39:35 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration







TIC: 05270819.D\data.ms

(8) n-Butylbenzene

20.836min (-0.018) 0.43ng

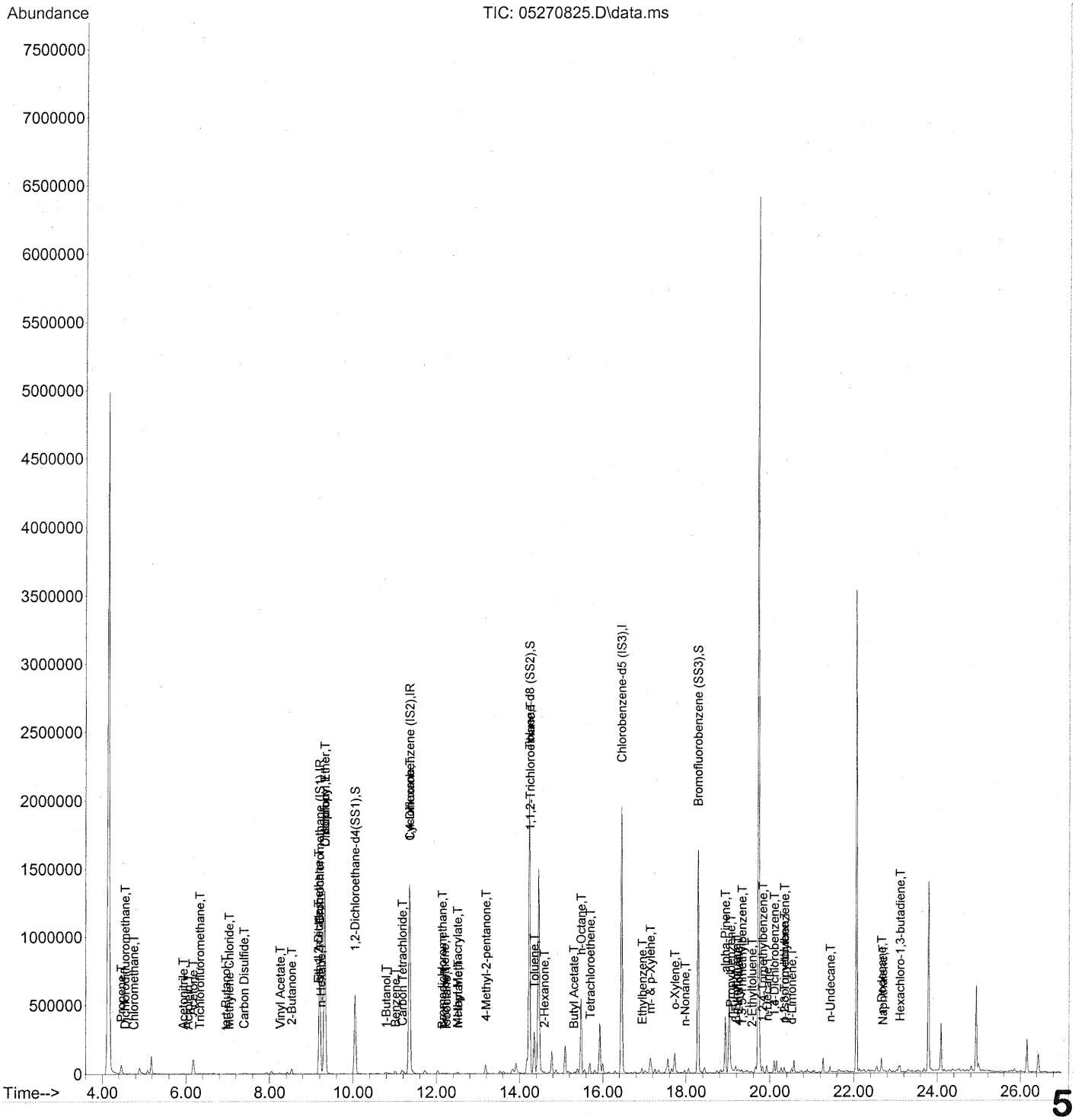
response 33595

Ion	Exp%	Act%
91.00	100	100
92.00	53.60	31.11#
134.00	23.40	0.00#
0.00	0.00	0.00

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 6:26 am
Operator : WA
Sample : P0801507-014 Dil (100ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 06:58:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 6:26 am
Operator : WA
Sample : P0801507-014 Dil (100ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 06:58:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	388783	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1614645	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	658561	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	548632	24.679	ng		-0.05
Spiked Amount 25.000			Recovery =	98.72%			
57) Toluene-d8 (SS2)	14.23	98	1656423	24.397	ng		-0.02
Spiked Amount 25.000			Recovery =	97.60%			
73) Bromofluorobenzene (SS3)	18.28	174	592517	26.248	ng		-0.01
Spiked Amount 25.000			Recovery =	105.00%			
Target Compounds							Qvalue
2) Propene	4.45	42	13999	0.465	ng		91
3) Dichlorodifluoromethane	4.55	85	5246	0.144	ng	#	95
4) Chloromethane	4.75	50	2514	0.055	ng		77
5) Freon 114	0.00	135	0	N.D.			
6) Vinyl Chloride	0.00	62	0	N.D.			
7) 1,3-Butadiene	5.09	54	439	N.D.			
8) Bromomethane	5.43	94	100	N.D.			
9) Chloroethane	0.00	64	0	N.D.			
10) Ethanol	5.75	45	188	N.D.			
11) Acetonitrile	5.93	41	7036	0.120	ng	#	45
12) Acrolein	6.05	56	3140	0.213	ng		95
13) Acetone	6.17	58	63175	3.110	ng	#	71
14) Trichlorofluoromethane	6.33	101	5618	0.165	ng		96
15) Isopropanol	6.45	45	385	N.D.			
16) Acrylonitrile	6.61	53	118	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.95	59	3300	0.058	ng	#	75
19) Methylene Chloride	7.03	84	1020	0.065	ng	#	1
20) Allyl Chloride	7.14	41	301	N.D.			
21) Trichlorotrifluoroethane	7.30	151	96	N.D.			
22) Carbon Disulfide	7.39	76	12595	0.200	ng		97
23) trans-1,2-Dichloroethene	8.03	61	445	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	8.25	86	274	0.082	ng	#	1
27) 2-Butanone	8.52	72	10567	0.995	ng	#	14
28) cis-1,2-Dichloroethene	9.17	61	2112	0.073	ng	#	39
29) Diisopropyl Ether	9.32	87	152688	10.914	ng	#	1
30) Ethyl Acetate	9.17	61	2112	0.285	ng		77
31) n-Hexane	9.23	57	2485	0.056	ng	#	65

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 6:26 am
Operator : WA
Sample : P0801507-014 Dil (100ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 06:58:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	1405417	61.259	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	0.00	62	0	N.D.			
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.			
39) Isopropyl Acetate	0.00	61	0	N.D.			
40) 1-Butanol	10.79	56	17401	0.655	ng	#	69
41) Benzene	11.01	78	20014	0.294	ng		98
42) Carbon Tetrachloride	11.18	117	24980	0.895	ng		94
43) Cyclohexane	11.35	84	1986	0.075	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	12.14	83	6782	0.339	ng		92
47) Trichloroethene	12.20	130	1241	0.059	ng		81
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	5770	0.053	ng		80
50) Methyl Methacrylate	12.51	100	772	0.106	ng	#	1
51) n-Heptane	12.52	71	2339	0.144	ng	#	62
52) cis-1,3-Dichloropropene	0.00	75	0	N.D.			
53) 4-Methyl-2-pentanone	13.19	58	24141	1.020	ng		83
54) trans-1,3-Dichloropropene	0.00	75	0	N.D.			
55) 1,1,2-Trichloroethane	14.24	97	140990	8.515	ng	#	7
58) Toluene	14.35	91	149412	1.940	ng		99
59) 2-Hexanone	14.58	43	10473	0.144	ng		73
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.30	43	4698	0.064	ng	#	40
63) n-Octane	15.47	57	129848	5.576	ng		96
64) Tetrachloroethene	15.69	166	22685	0.996	ng		99
65) Chlorobenzene	16.50	112	1987	N.D.			
66) Ethylbenzene	16.94	91	31596	0.361	ng		90
67) m- & p-Xylene	17.14	91	97049	1.673	ng		91
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.59	104	1583	N.D.			
70) o-Xylene	17.73	91	33174	0.534	ng		93
71) n-Nonane	17.97	43	12243	0.200	ng		88
72) 1,1,2,2-Tetrachloroethane	17.78	83	426	N.D.			
74) Cumene	18.45	105	3028	N.D.			
75) alpha-Pinene	18.93	93	192963	4.551	ng		93
76) n-Propylbenzene	19.06	91	6648	0.063	ng	#	85
77) 3-Ethyltoluene	19.19	105	22353	0.225	ng		95
78) 4-Ethyltoluene	19.24	105	8951	0.100	ng		90
79) 1,3,5-Trimethylbenzene	19.33	105	11272	0.142	ng		9

581

JM 6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 6:26 am
Operator : WA
Sample : P0801507-014 Dil (100ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 06:58:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.51	118	1122	N.D.	
81) 2-Ethyltoluene	19.57	105	7926	0.082 ng	93
82) 1,2,4-Trimethylbenzene	19.83	105	26243	0.327 ng	95
83) n-Decane	19.93	57	24903	0.438 ng	79
84) Benzyl Chloride	20.00	91	107	N.D.	
85) 1,3-Dichlorobenzene	20.10	146	39325	0.773 ng	100
86) 1,4-Dichlorobenzene	20.10	146	39325	0.796 ng	100
87) sec-Butylbenzene	20.15	105	874	N.D.	
88) p-Isopropyltoluene	20.34	119	15506	0.170 ng	98
89) 1,2,3-Trimethylbenzene	20.34	105	9559	0.124 ng	84
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.	
91) d-Limonene	20.52	68	7121	0.288 ng	81
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	21.44	57	19245	0.323 ng	91
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	9693	0.083 ng	92
96) n-Dodecane	22.66	57	39202	0.675 ng	82
97) Hexachloro-1,3-butadiene	23.11	225	8535	0.608 ng	99

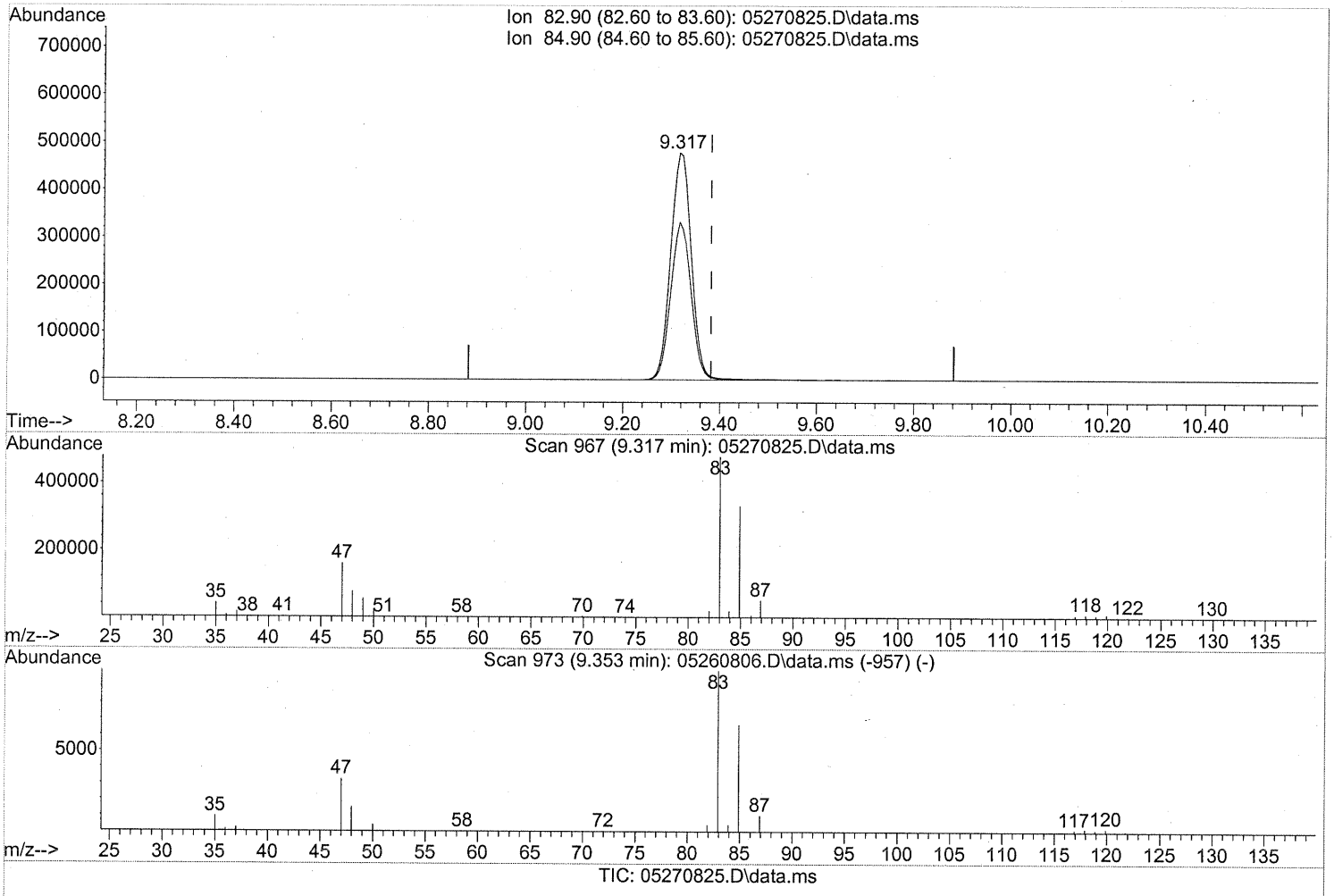
(#) = qualifier out of range (m) = manual integration (+) = signals summed

582

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270825.D
Acq On : 28 May 2008 6:26
Operator : WA
Sample : P0801507-014 Dil (100ml)
Misc : ENSR SG14B-05 (-3.5, 3.6)
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 28 06:58:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270825.D\data.ms

(32) Chloroform (T)

9.317min (-0.065) 61.26ng

response 1405417

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.50
0.00	0.00	0.00
0.00	0.00	0.00

583

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG06B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00189

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
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/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
75-71-8	**Dichlorodifluoromethane (CFC 12)**	**2.0**	0.77	0.077	**0.41**	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)	ND	0.77	0.077	ND	0.11	0.011	
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**	**2.3**	7.7	0.077	**1.2**	4.1	0.041	**J, B**
67-64-1	**Acetone**	**21**	7.7	0.11	**8.8**	3.2	0.047	**B**
75-69-4	**Trichlorofluoromethane**	**1.3**	0.15	0.077	**0.23**	0.027	0.014	
107-13-1	Acrylonitrile	ND	0.77	0.11	ND	0.35	0.050	
75-35-4	1,1-Dichloroethene	ND	0.15	0.077	ND	0.039	0.019	
75-65-0	**2-Methyl-2-Propanol (tert-Butyl Alcohol)**	**0.45**	0.77	0.11	**0.15**	0.25	0.038	**J**
75-09-2	**Methylene Chloride**	**0.46**	0.77	0.077	**0.13**	0.22	0.022	**J, B**
107-05-1	3-Chloro-1-propene (Allyl Chloride)	ND	0.15	0.077	ND	0.049	0.025	
76-13-1	**Trichlorotrifluoroethane**	**0.55**	0.15	0.086	**0.071**	0.020	0.011	
75-15-0	**Carbon Disulfide**	**13**	0.77	0.18	**4.2**	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**	**0.25**	0.15	0.077	**0.062**	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**	**2.9**	7.7	0.25	**0.82**	2.2	0.070	**J, B**
78-93-3	**2-Butanone (MEK)**	**5.8**	0.77	0.077	**2.0**	0.26	0.026	**B**
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**	**34**	0.15	0.091	**6.9**	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **SG06B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-015

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00189

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/28/08
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/m³	MRL µg/m³	MDL µg/m³	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	1,1,1-Trichloroethane	ND	0.15	0.077	ND	0.028	0.014	
71-43-2	**Benzene**	**1.9**	0.15	0.077	**0.61**	0.048	0.024	**B**
56-23-5	**Carbon Tetrachloride**	**0.60**	0.15	0.077	**0.095**	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**	**0.088**	0.15	0.077	**0.019**	0.033	0.017	**J**
75-27-4	**Bromodichloromethane**	**0.18**	0.15	0.077	**0.027**	0.023	0.011	
79-01-6	**Trichloroethene**	**1.3**	0.15	0.077	**0.24**	0.029	0.014	
123-91-1	1,4-Dioxane	ND	0.77	0.094	ND	0.21	0.026	
80-62-6	Methyl Methacrylate	ND	0.77	0.12	ND	0.19	0.028	
142-82-5	**n-Heptane**	**0.47**	0.77	0.099	**0.11**	0.19	0.024	**J**
10061-01-5	cis-1,3-Dichloropropene	ND	0.77	0.080	ND	0.17	0.018	
108-10-1	**4-Methyl-2-pentanone**	**9.2**	0.77	0.086	**2.2**	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	**Toluene**	**6.7**	0.77	0.077	**1.8**	0.20	0.020	
591-78-6	**2-Hexanone**	**0.52**	0.77	0.12	**0.13**	0.19	0.029	**J**
124-48-1	**Dibromochloromethane**	**0.12**	0.15	0.10	**0.014**	0.018	0.012	**J**
106-93-4	1,2-Dibromoethane	ND	0.15	0.083	ND	0.020	0.011	
111-65-9	**n-Octane**	**1.5**	0.77	0.077	**0.31**	0.16	0.016	
127-18-4	**Tetrachloroethene**	**1.1**	0.15	0.077	**0.17**	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.
B = Analyte was found in the method blank.

Verified By: CA Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507
Client Sample ID: **SG06B-05** CAS Sample ID: P0801507-015
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

Test Code: EPA TO-15 Date Collected: 5/20/08
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: 5/21/08
Analyst: Wida Ang Date Analyzed: 5/28/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:
Container ID: SC00189

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

Canister Dilution Factor: 1.54

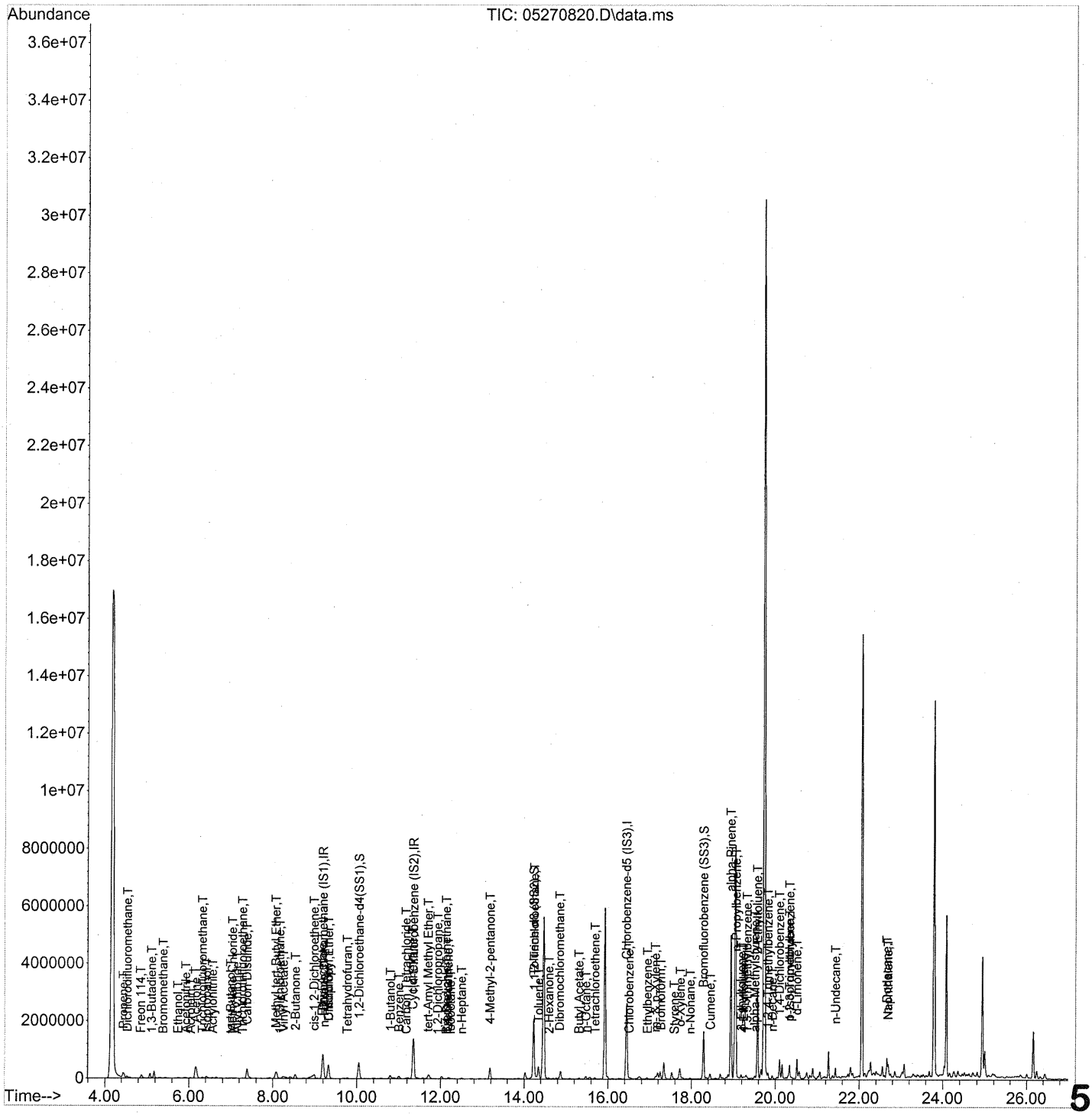
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	**Ethylbenzene**	**0.41**	0.77	0.095	**0.095**	0.18	0.022	**J**
179601-23-1	**m,p-Xylenes**	**1.9**	0.77	0.20	**0.45**	0.18	0.046	
75-25-2	**Bromoform**	**0.27**	0.77	0.12	**0.026**	0.075	0.011	**J**
100-42-5	**Styrene**	**0.31**	0.77	0.12	**0.073**	0.18	0.028	**J**
95-47-6	**o-Xylene**	**0.89**	0.77	0.097	**0.21**	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**	**0.088**	0.77	0.086	**0.018**	0.16	0.018	**J**
103-65-1	**n-Propylbenzene**	**0.28**	0.77	0.080	**0.058**	0.16	0.016	**J**
622-96-8	**4-Ethyltoluene**	**0.46**	0.77	0.088	**0.093**	0.16	0.018	**J**
108-67-8	**1,3,5-Trimethylbenzene**	**0.51**	0.77	0.092	**0.10**	0.16	0.019	**J**
98-83-9	**alpha-Methylstyrene**	**0.39**	0.77	0.11	**0.080**	0.16	0.023	**J**
95-63-6	**1,2,4-Trimethylbenzene**	**2.2**	0.77	0.11	**0.44**	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**	**8.7**	0.15	0.086	**1.4**	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)**	**4.4**	0.77	0.10	**0.80**	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**	**4.2**	0.31	0.11	**0.79**	0.059	0.022	
87-68-3	Hexachlorobutadiene	ND	0.15	0.14	ND	0.014	0.013	
98-06-6	tert-Butylbenzene	ND	0.31	0.077	ND	0.056	0.014	
104-51-8	**n-Butylbenzene**	**0.68**	0.31	0.077	**0.12**	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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 09:11:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	389303	25.000 ng	-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1623961	25.000 ng	-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	666312	25.000 ng	-0.01
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	10.05	65	546780	24.563 ng	-0.04
Spiked Amount 25.000			Recovery =	98.24%	✓
57) Toluene-d8 (SS2)	14.23	98	1659883	24.163 ng	-0.02
Spiked Amount 25.000			Recovery =	96.64%	✓
73) Bromofluorobenzene (SS3)	18.29	174	593715	25.995 ng	0.00
Spiked Amount 25.000			Recovery =	104.00%	✓
Target Compounds					Qvalue
2) Propene	4.44	42	63630	2.111 ng	90
3) Dichlorodifluoromethane	4.54	85	48171	1.322 ng	97
4) Chloromethane	4.72	50	2071	N.D. ✓	
5) Freon 114	4.85	135	1167	~~0.057 ng~~ NR#	41
6) Vinyl Chloride	0.00	62	0	N.D. ✓	
7) 1,3-Butadiene	5.12	54	9690	0.364 ng #	25
8) Bromomethane	~~5.39~~	94	2171	~~0.144 ng~~ NR#	15
9) Chloroethane	0.00	64	0	N.D. ✓	
10) Ethanol	5.74	45	29946m	1.465 ng	
11) Acetonitrile	5.93	41	42617	0.723 ng	80
12) Acrolein	6.04	56	16293	1.105 ng	76
13) Acetone	6.16	58	275163	13.527 ng #	77
14) Trichlorofluoromethane	6.32	101	28199	0.826 ng	98
15) Isopropanol	6.42	45	103855	1.695 ng	93
16) Acrylonitrile	6.57	53	5049	~~0.137 ng~~ NR#	6
17) 1,1-Dichloroethene	0.00	96	0	N.D. ✓	
18) tert-Butanol	6.99	59	16743m	0.293 ng	
19) Methylene Chloride	7.04	84	4710	0.300 ng #	56
20) Allyl Chloride	7.14	41	4274	~~0.118 ng~~ NR#	45
21) Trichlorotrifluoroethane	7.28	151	5867	0.354 ng	85
22) Carbon Disulfide	7.39	76	537135	8.512 ng	100
23) trans-1,2-Dichloroethene	7.93	61	200	N.D. ✓	
24) 1,1-Dichloroethane	8.17	63	5396	0.162 ng	81
25) Methyl tert-Butyl Ether	8.07	73	3906	~~0.080 ng~~ NR#	51
26) Vinyl Acetate	8.25	86	6277	1.884 ng #	67
27) 2-Butanone	8.53	72	39924	3.754 ng #	23
28) cis-1,2-Dichloroethene	8.99	61	1665	~~0.058 ng~~ NR#	16
29) Diisopropyl Ether	9.33	87	54902	~~3.919 ng~~ NR#	1
30) Ethyl Acetate	9.18	61	22710	3.060 ng	80
31) n-Hexane	9.23	57	15354	0.346 ng	90

MA 6/4/08

Quantitation Report (QT Reviewed)

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QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.33	83	502819	21.887 ng		95
34) Tetrahydrofuran	9.77	72	4947	0.495 ng	#	17
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	10.16	62	103	N.D. ✓		
38) 1,1,1-Trichloroethane	10.48	97	455	N.D. ✓		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.80	56	134066	5.016 ng	#	63
41) Benzene	11.01	78	85981	1.256 ng		100
42) Carbon Tetrachloride	11.17	117	10901	0.388 ng		95
43) Cyclohexane	11.33	84	4568	0.171 ng	#	1
44) tert-Amyl Methyl Ether	11.70	73	18171	~~0.399 ng~~ NR	#	29
45) 1,2-Dichloropropane	11.94	63	1150	0.057 ng		86
46) Bromodichloromethane	12.14	83	2372	0.118 ng	#	68
47) Trichloroethene	12.18	130	18006	0.845 ng		100
48) 1,4-Dioxane	12.16	88	774	~~0.061 ng~~ NR		76
49) Isooctane	12.24	57	11669	0.107 ng		80
50) Methyl Methacrylate	12.34	100	107	N.D. ✓		
51) n-Heptane	12.50	71	4943	0.302 ng	#	54
52) cis-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
53) 4-Methyl-2-pentanone	13.18	58	142119	5.970 ng		83
54) trans-1,3-Dichloropropene	14.02	75	102	N.D. ✓		
55) 1,1,2-Trichloroethane	14.24	97	139999	~~8.407 ng~~ NR	#	8
58) Toluene	14.35	91	340441	4.369 ng		99
59) 2-Hexanone	14.59	43	25031	0.340 ng		96
60) Dibromochloromethane	14.85	129	1731	0.075 ng		100
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.31	43	33554	0.453 ng		89
63) n-Octane	15.47	57	22197	0.942 ng		94
64) Tetrachloroethene	15.69	166	16929	0.735 ng		100
65) Chlorobenzene	16.50	112	3091	~~0.056 ng~~ NR	#	43
66) Ethylbenzene	16.94	91	23852	0.269 ng		94
67) m- & p-Xylene	17.14	91	74048	1.262 ng		91
68) Bromoform	17.26	173	2307	0.173 ng		95
69) Styrene	17.59	104	11401	0.201 ng		96
70) o-Xylene	17.73	91	36403	0.580 ng		92
71) n-Nonane	17.97	43	20021	0.323 ng		84
72) 1,1,2,2-Tetrachloroethane	17.73	83	970	N.D. ✓		
74) Cumene	18.45	105	5232	0.057 ng		98
75) alpha-Pinene	18.93	93	2345121	54.662 ng		92
76) n-Propylbenzene	19.06	91	19538	0.184 ng	#	86
77) 3-Ethyltoluene	19.19	105	50133	0.500 ng		92
78) 4-Ethyltoluene	19.24	105	26922	0.297 ng		95
79) 1,3,5-Trimethylbenzene	19.33	105	26318	0.328 ng		93

589

KM 6/4/08

Quantitation Report (QT Reviewed)

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ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 09:11:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	11391	0.252	ng		97
81) 2-Ethyltoluene	19.57	105	65913	0.678	ng		77
82) 1,2,4-Trimethylbenzene	19.83	105	114126	1.405	ng		96
83) n-Decane	19.93	57	49608	0.863	ng		84
84) Benzyl Chloride	20.00	91	2860	N.D.	✓		
85) 1,3-Dichlorobenzene	20.02	146	1727	N.D.	✓		
86) 1,4-Dichlorobenzene	20.10	146	281902	5.641	ng		99
87) sec-Butylbenzene	20.16	105	4499	N.D.	✓		
88) p-Isopropyltoluene	20.34	119	262790	2.854	ng		96
89) 1,2,3-Trimethylbenzene	20.34	105	64319	0.825	ng	#	61
90) 1,2-Dichlorobenzene	20.52	146	905	N.D.	✓		
91) d-Limonene	20.52	68	151994	6.071	ng		87
92) 1,2-Dibromo-3-Chloropr...	21.43	157	421	N.D.	✓		
93) n-Undecane	21.43	57	129396	2.145	ng		88
94) 1,2,4-Trichlorobenzene	22.86	184	111	N.D.	✓		
95) Naphthalene	22.69	128	319255	2.705	ng		94
96) n-Dodecane	22.66	57	247509	4.212	ng		79
97) Hexachloro-1,3-butadiene	23.11	225	93	N.D.	✓		

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

Quantitation Report (Qedit)

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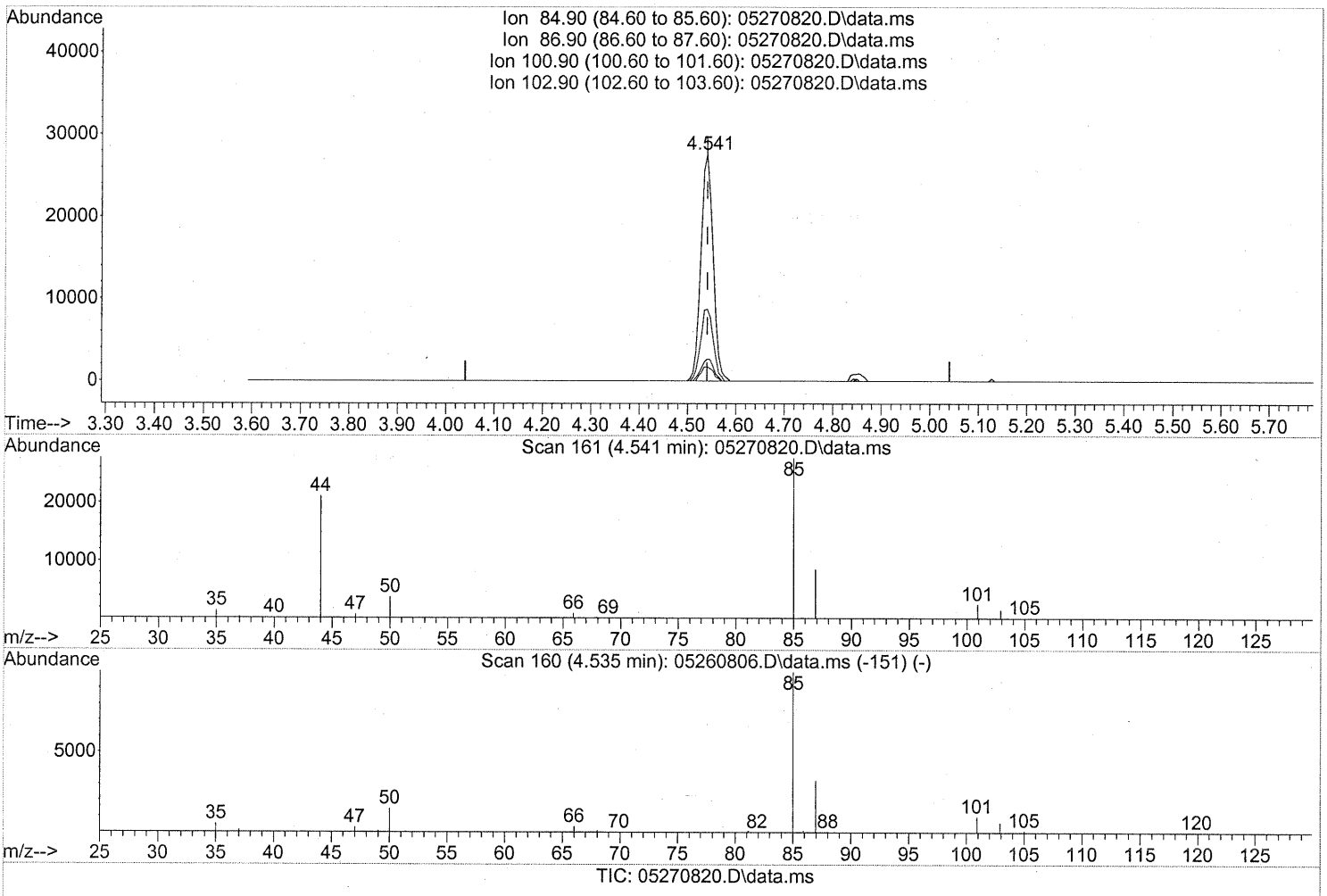
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(3) Dichlorodifluoromethane (T)

4.541min (-0.000) 1.32ng

response 48171

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	32.87
100.90	8.40	9.78
102.90	5.50	6.20

591

Quantitation Report (Qedit)

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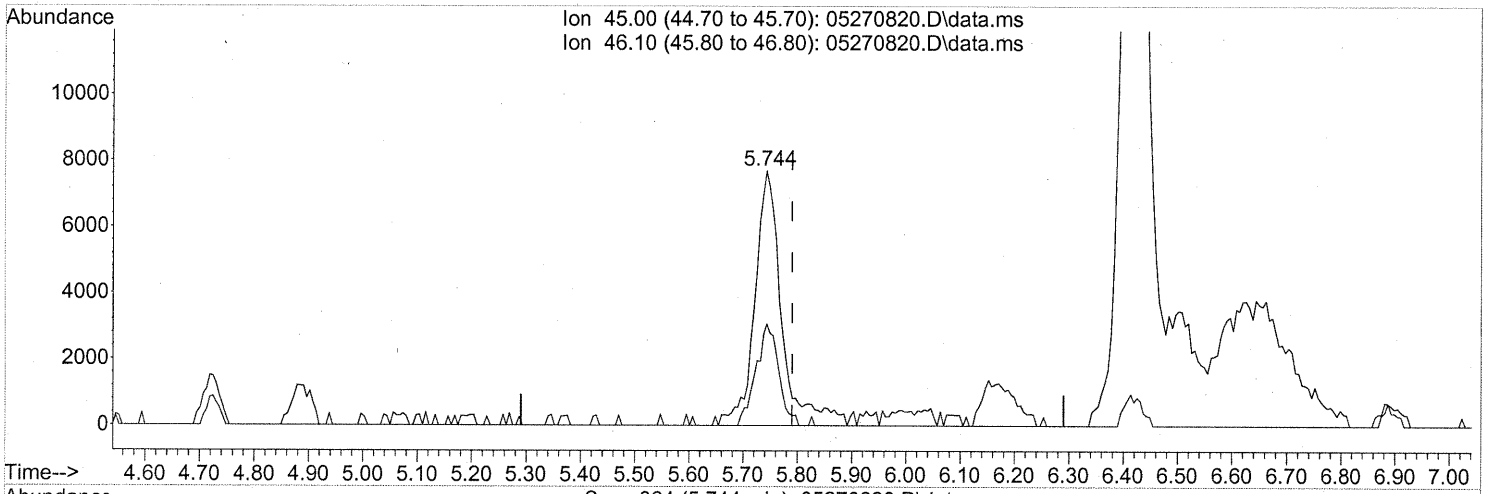

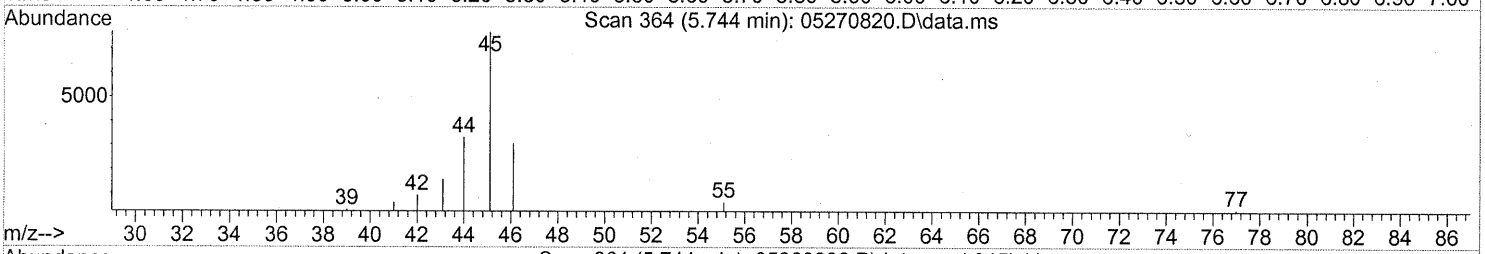

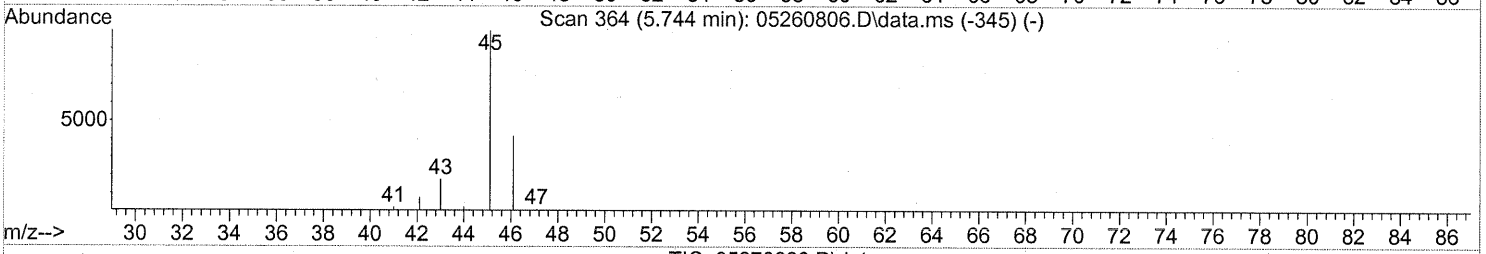

TIC: 05270820.D\data.ms

(10) Ethanol (T)

5.744min (-0.047) 1.30ng

response 26674

split peak

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	33.45
0.00	0.00	0.00
0.00	0.00	0.00

592

Quantitation Report (Qedit)

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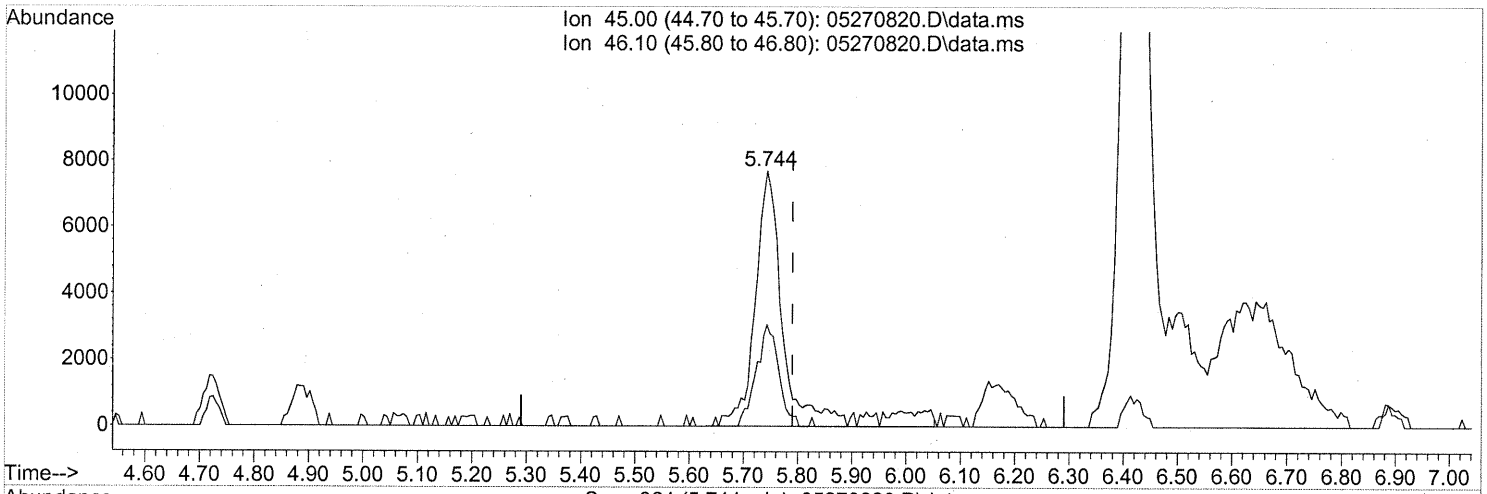

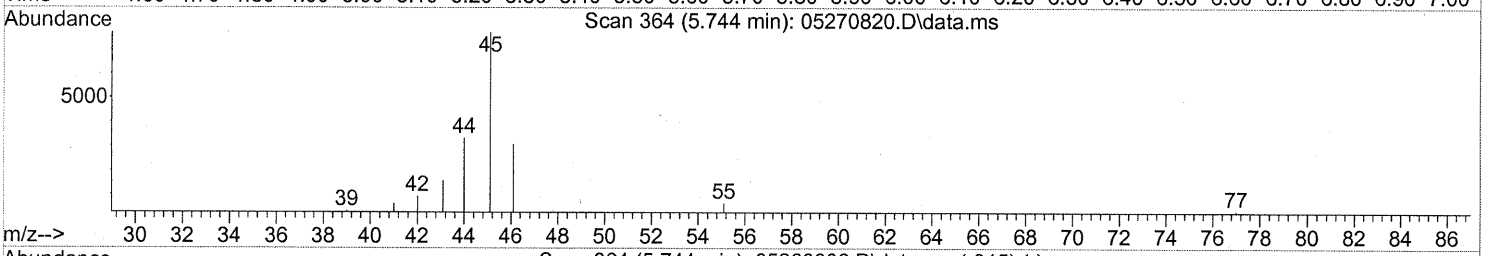

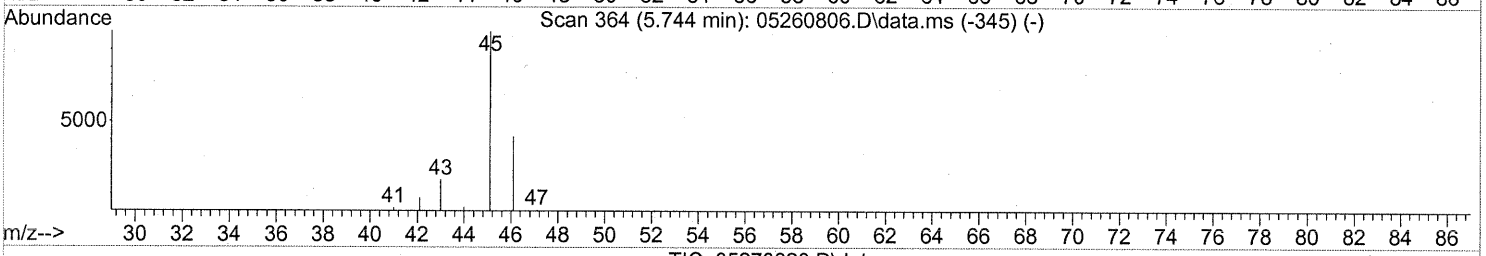

TIC: 05270820.D\data.ms

(10) Ethanol (T)

5.744min (-0.047) 1.46ng m

response 29946

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	29.79
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peak
6/5/08

593

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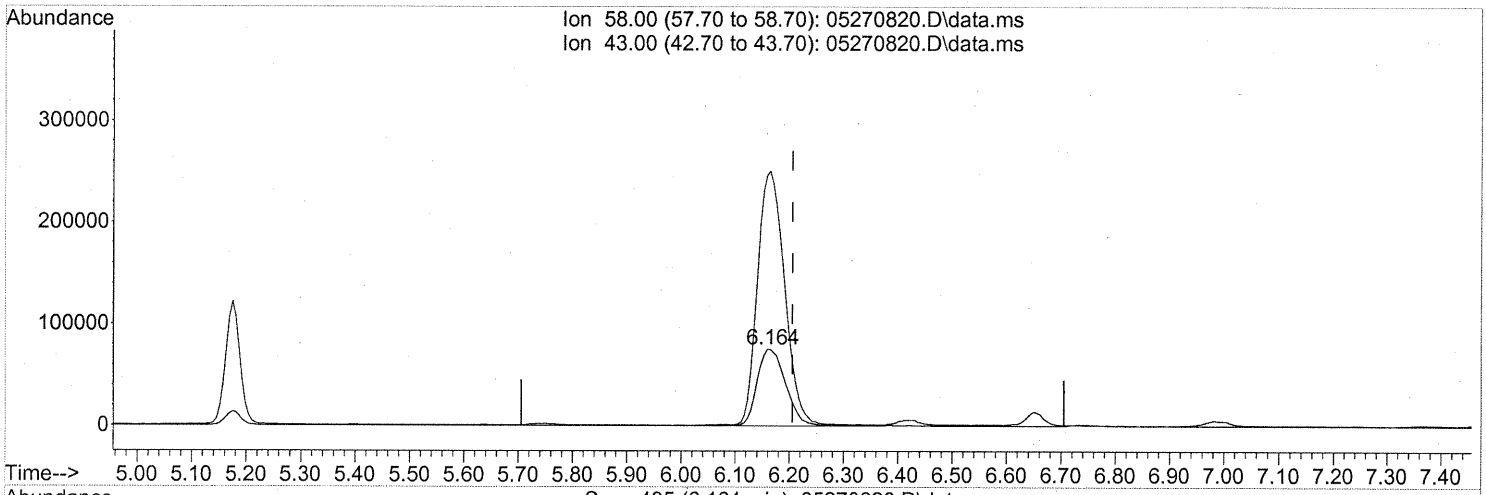

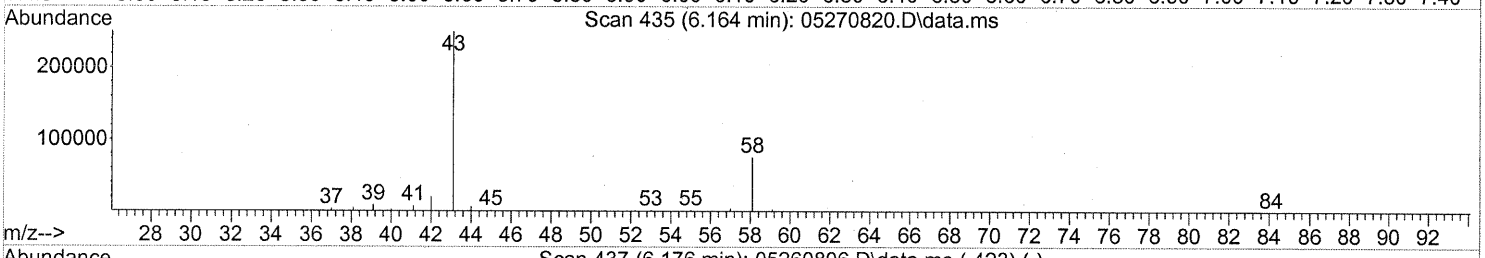

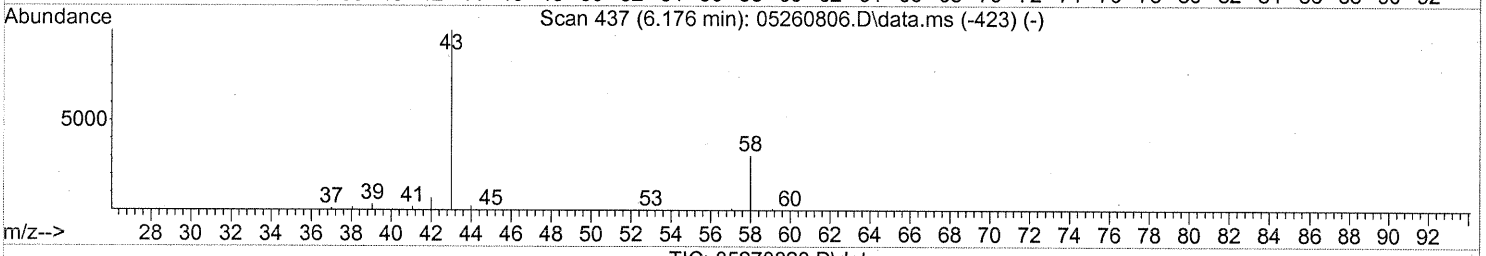

TIC: 05270820.D\data.ms

(13) Acetone (T)

6.164min (-0.042) 13.53ng

response 275163

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	316.58#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

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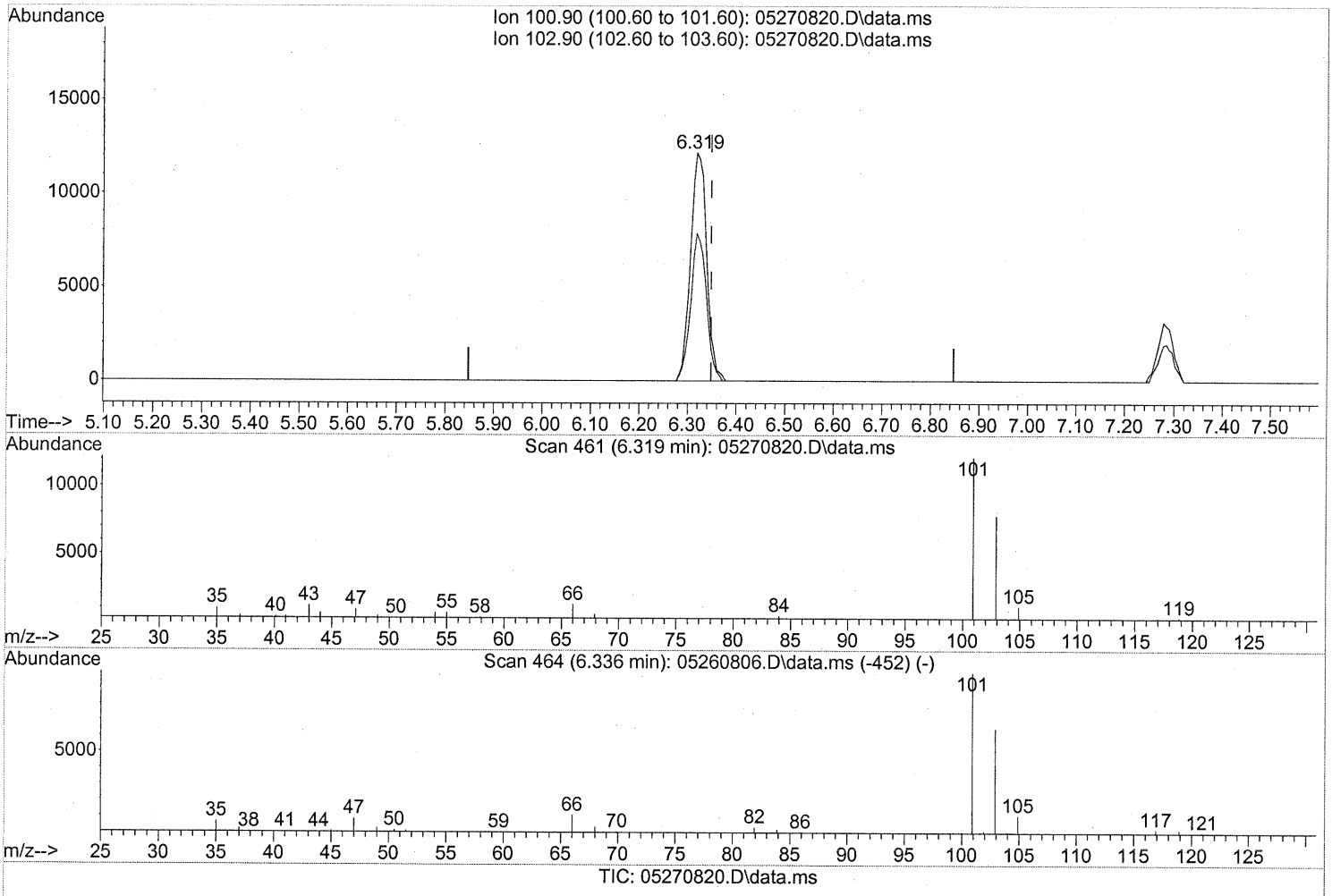

(14) Trichlorofluoromethane (T)

6.319min (-0.030) 0.83ng

response 28199

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	62.98
0.00	0.00	0.00
0.00	0.00	0.00

595

Quantitation Report (Qedit)

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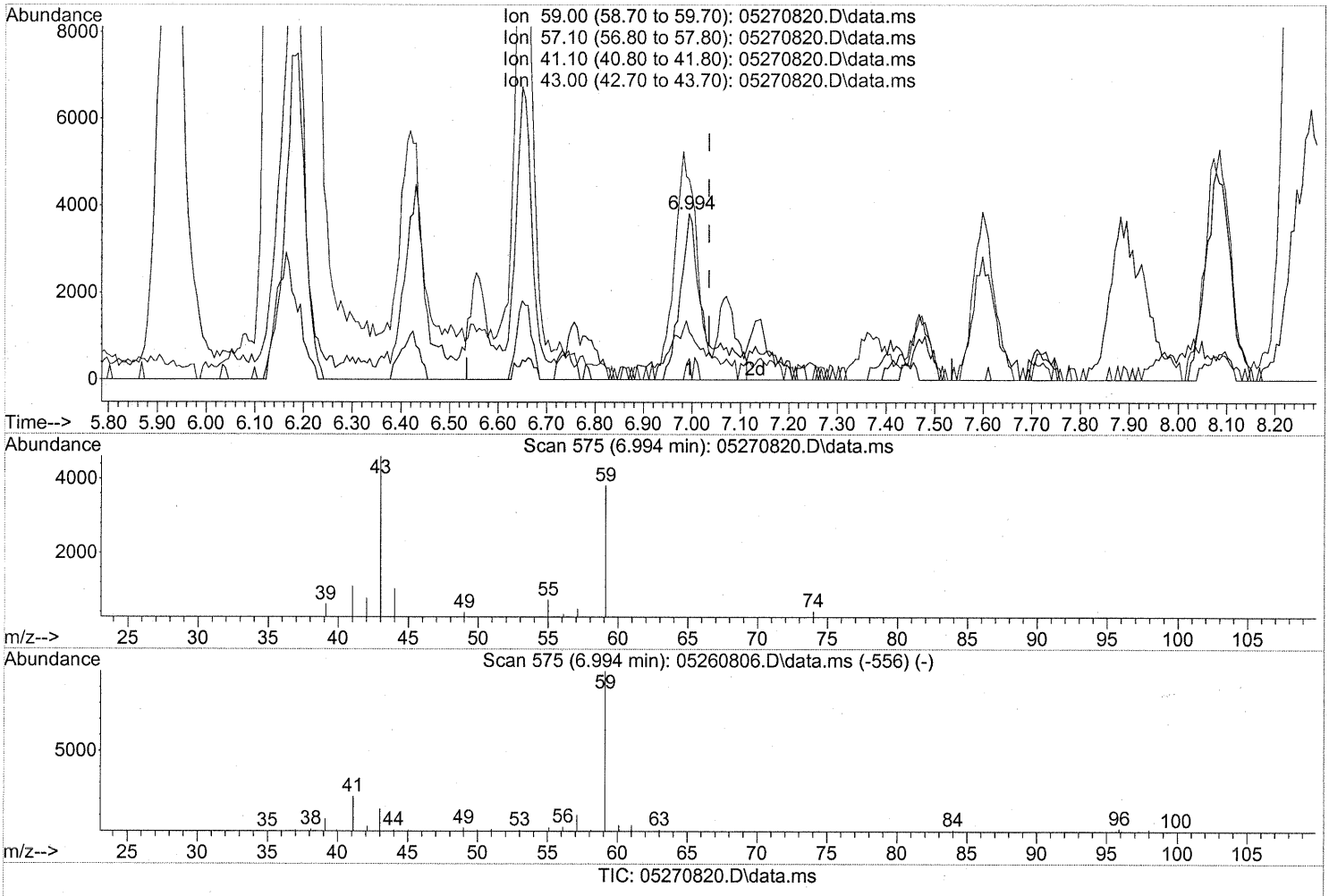

TIC: 05270820.D\data.ms

(18) tert-Butanol (T)

6.994min (-0.042) 0.23ng

response 13351

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	2.21
41.10	21.90	40.89
43.00	17.20	137.26#

split peaks

596

Quantitation Report (Qedit)

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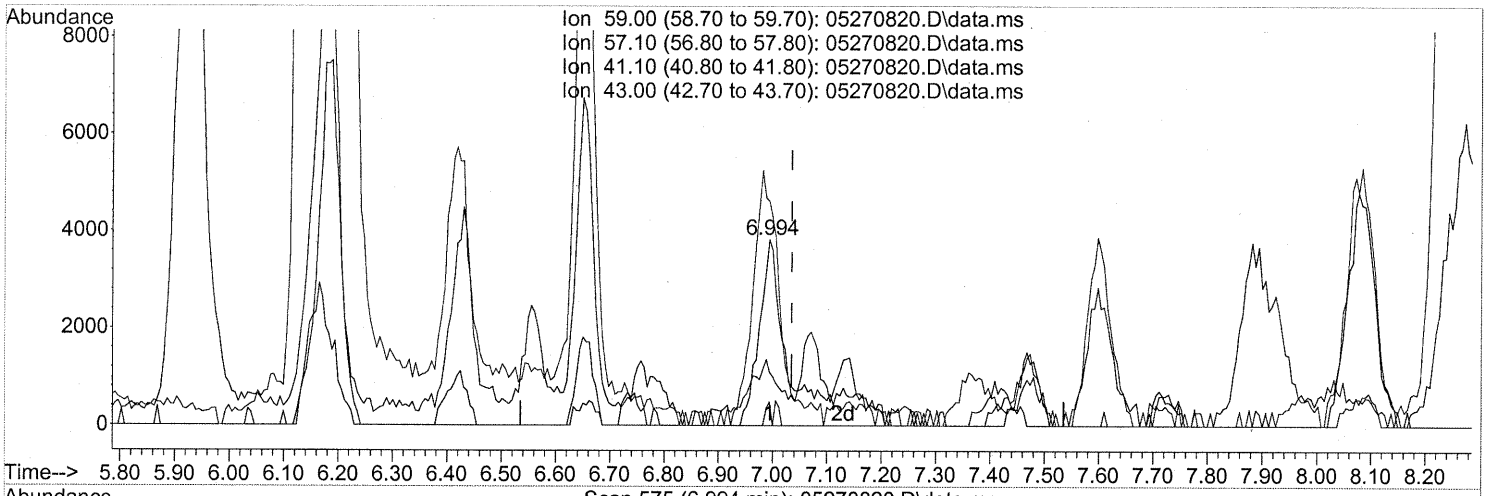
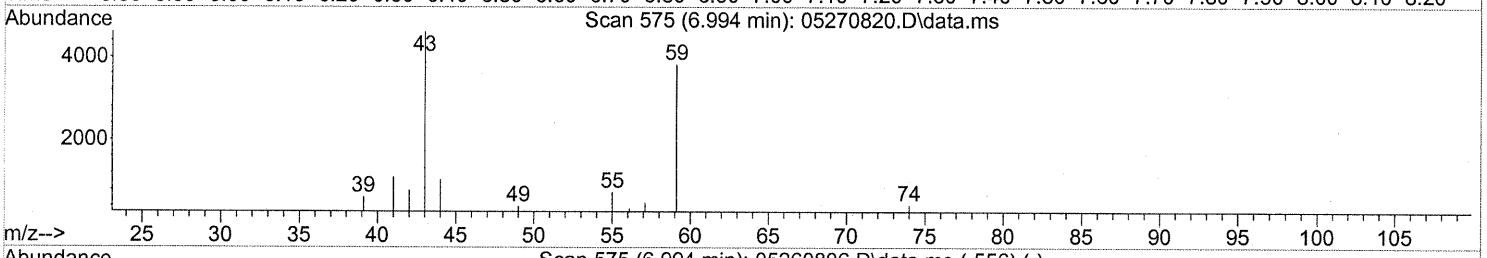
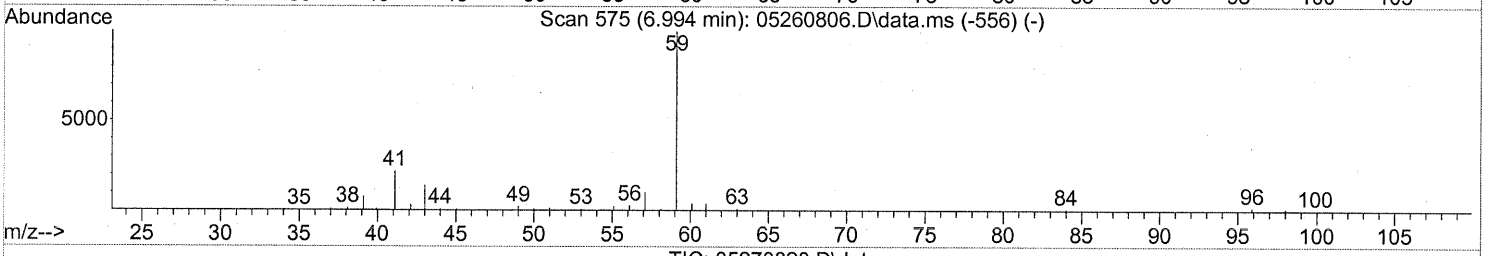
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(18) tert-Butanol (T)

6.994min (-0.042) 0.29ng m

response 16743

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	1.76
41.10	21.90	32.60
43.00	17.20	109.45#

int whole peaks

DH 6/4/08

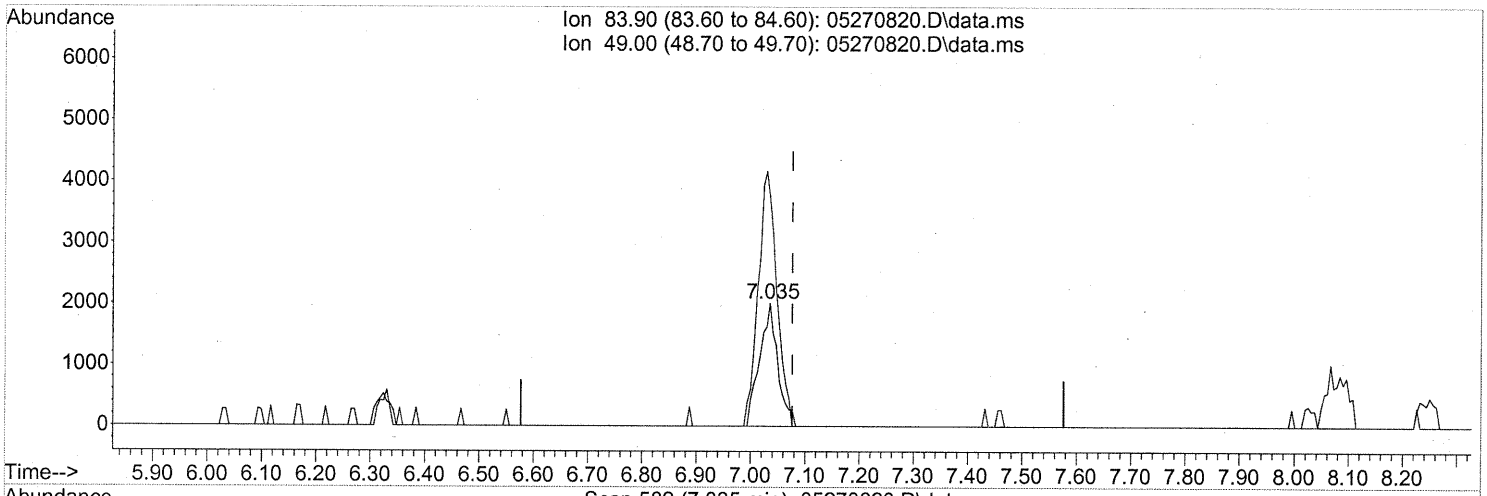
6/4/08

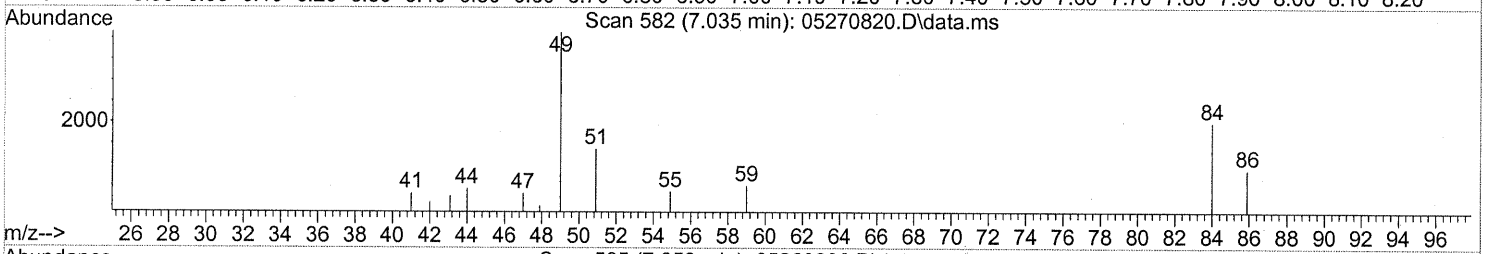
597

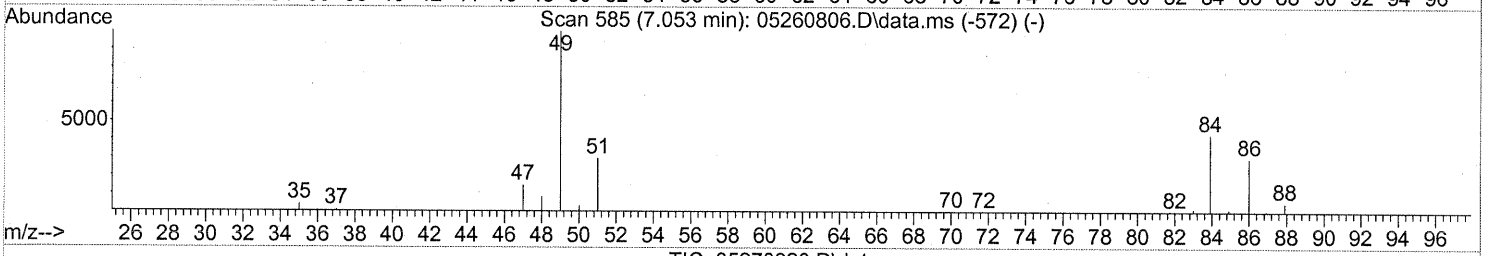
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(19) Methylene Chloride (T)

7.035min (-0.042) 0.30ng

response 4710

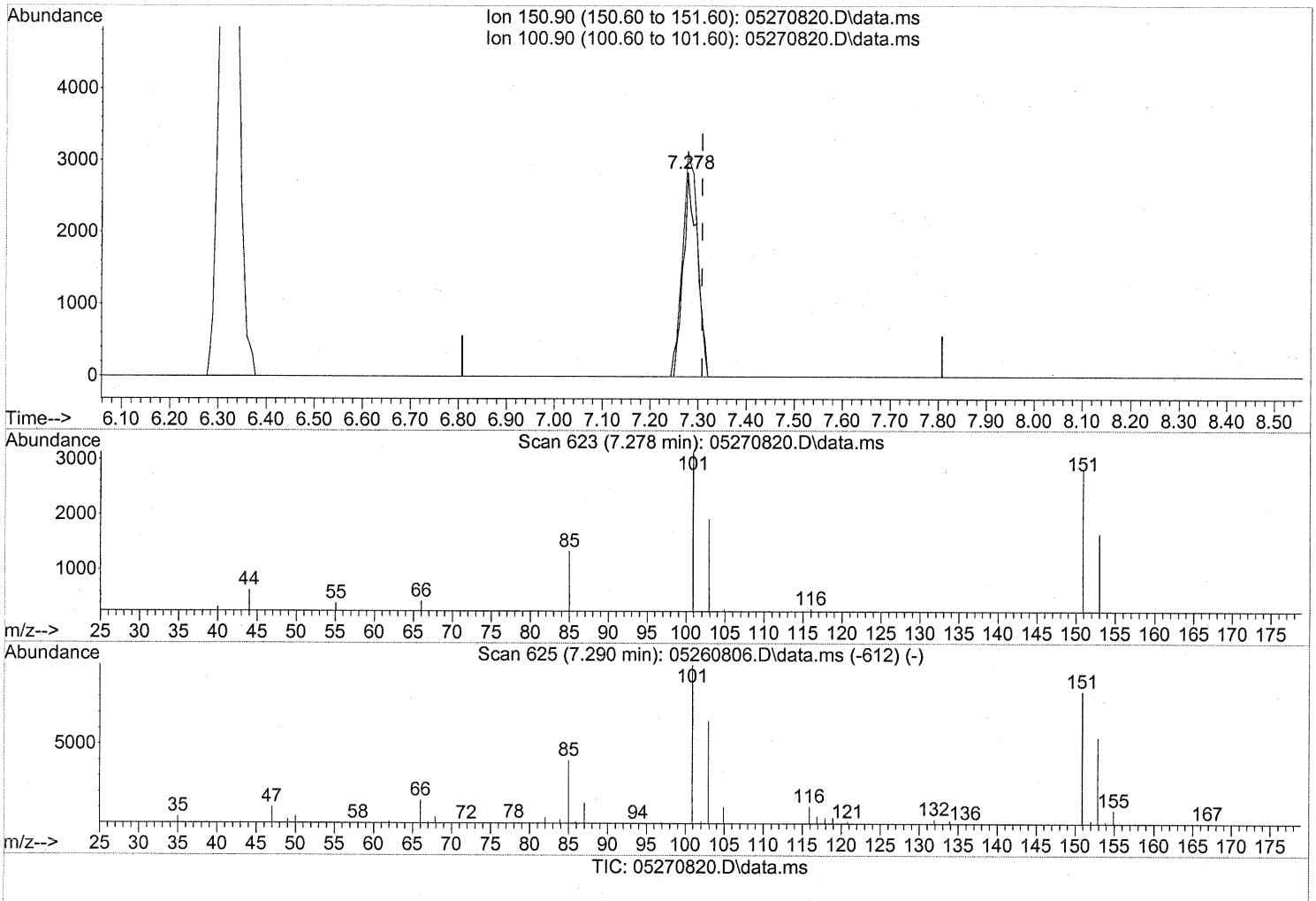
Ion	Exp%	Act%
83.90	100	100
49.00	155.50	212.68#
0.00	0.00	0.00
0.00	0.00	0.00

598

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(21) Trichlorotrifluoroethane (T)

7.278min (-0.030) 0.35ng

response 5867

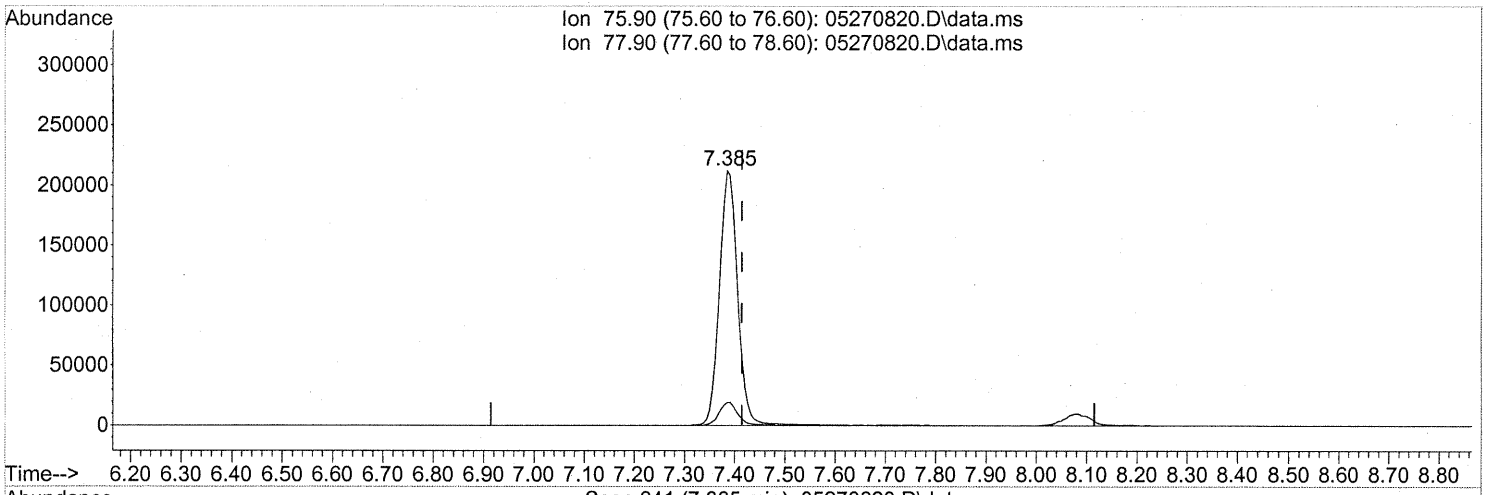
Ion	Exp%	Act%
150.90	100	100
100.90	136.10	118.43
0.00	0.00	0.00
0.00	0.00	0.00

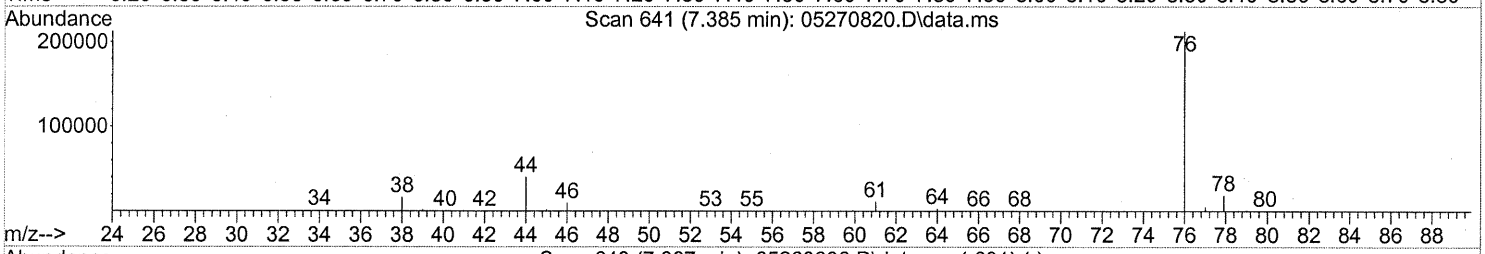
599

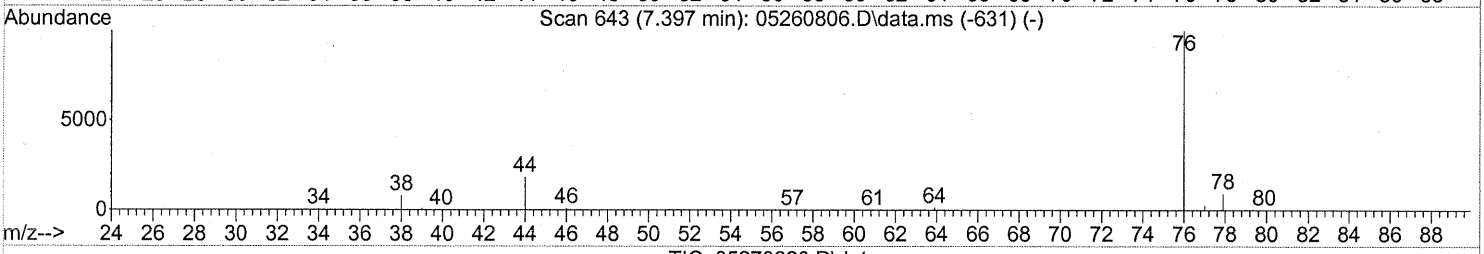
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(22) Carbon Disulfide (T)

7.385min (-0.030) 8.51ng

response 537135

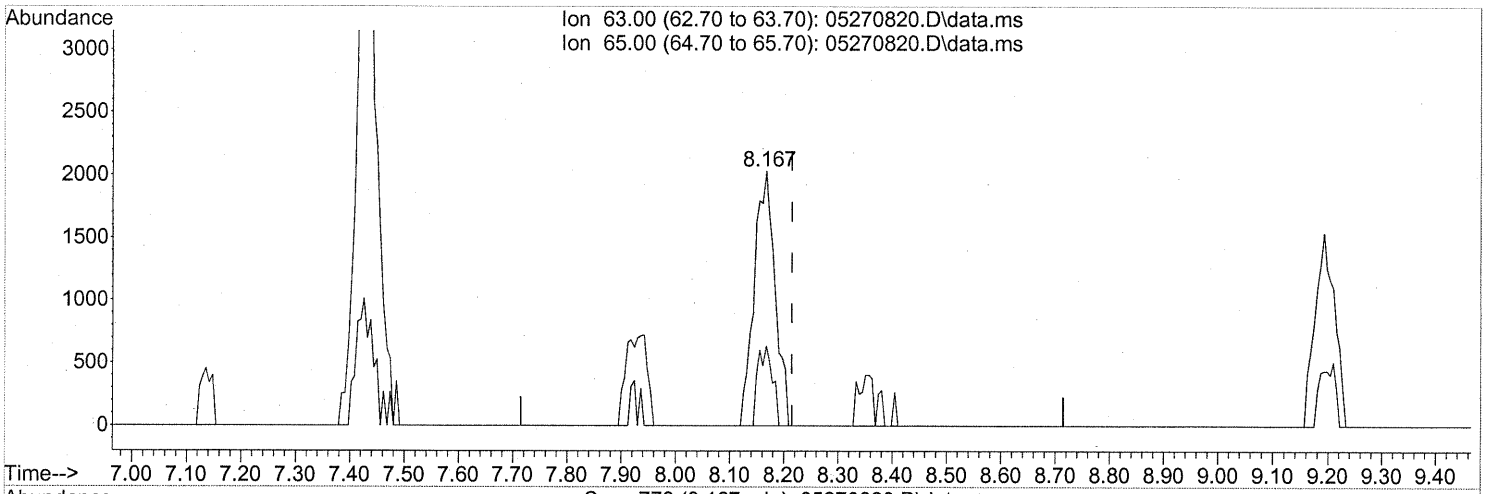
Ion	Exp%	Act%
75.90	100	100
77.90	9.10	9.17
0.00	0.00	0.00
0.00	0.00	0.00

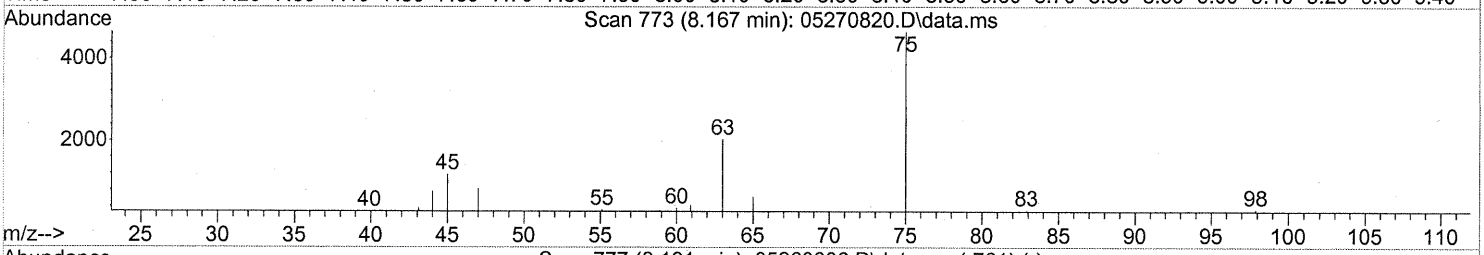
600

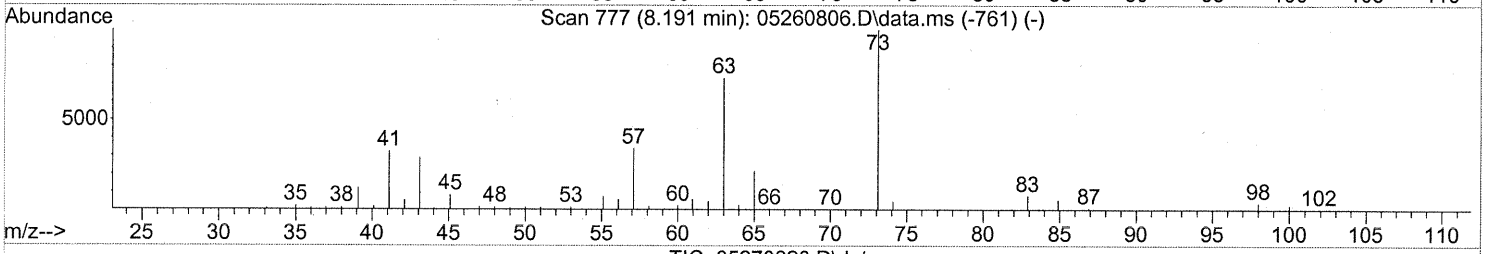
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(24) 1,1-Dichloroethane (T)

8.167min (-0.048) 0.16ng

response 5396

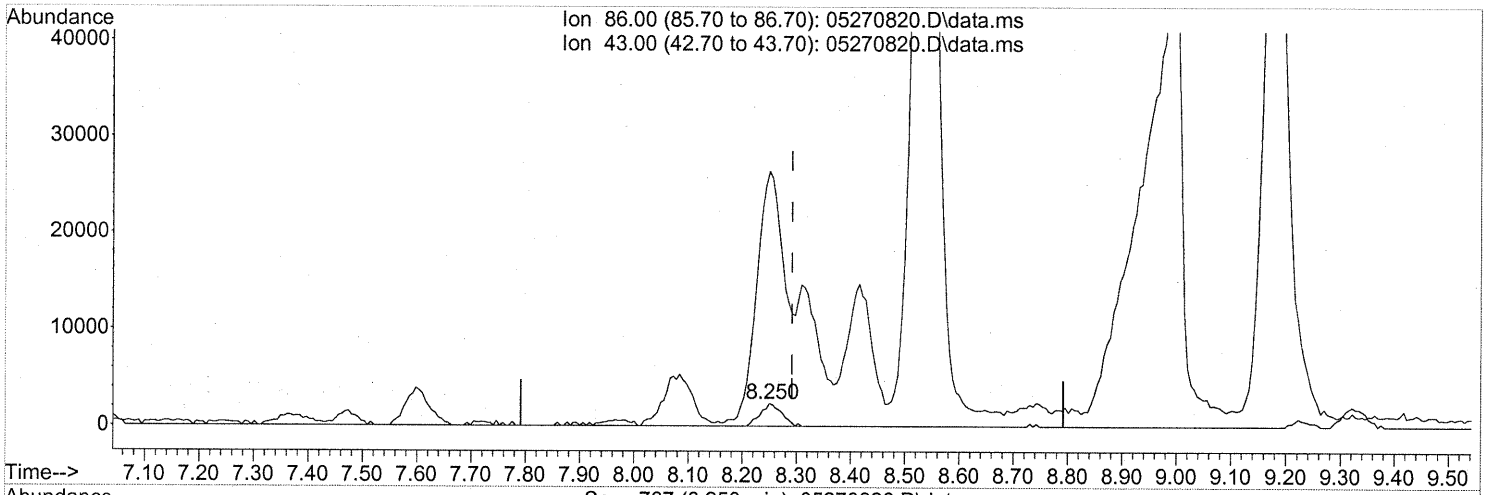
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	21.78
0.00	0.00	0.00
0.00	0.00	0.00

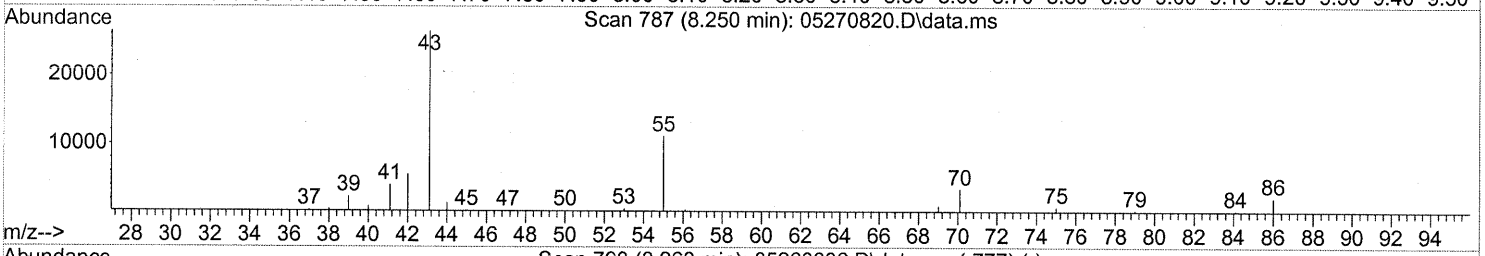
601

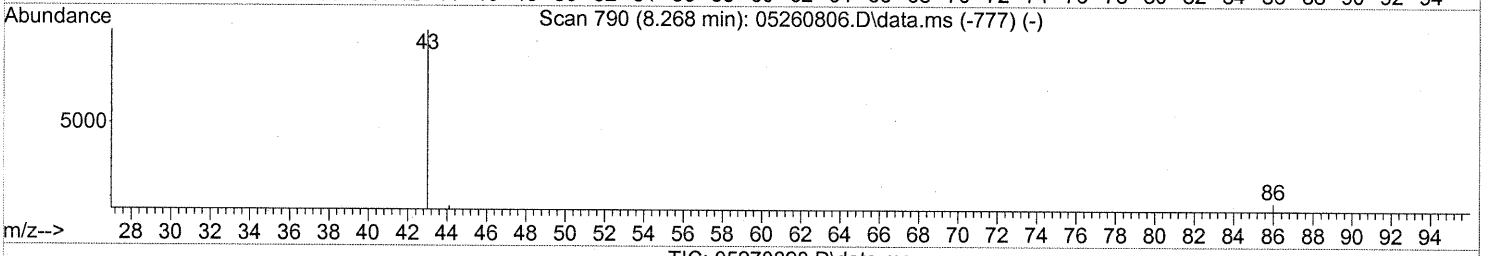
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(26) Vinyl Acetate (T)

8.250min (-0.042) 1.88ng

response 6277

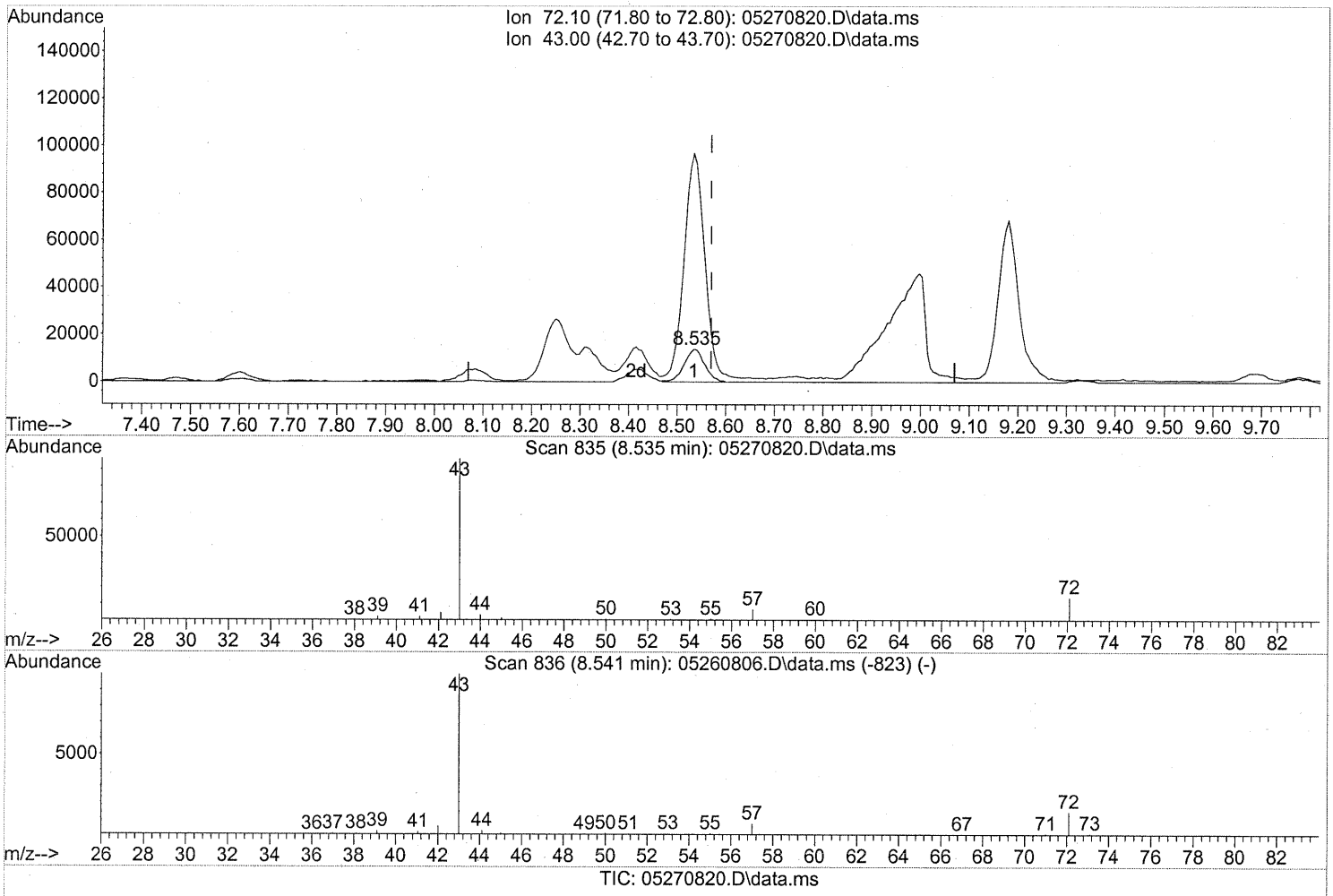
Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	1524.47#
0.00	0.00	0.00
0.00	0.00	0.00

602

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(27) 2-Butanone (T)

8.535min (-0.036) 3.75ng

response 39924

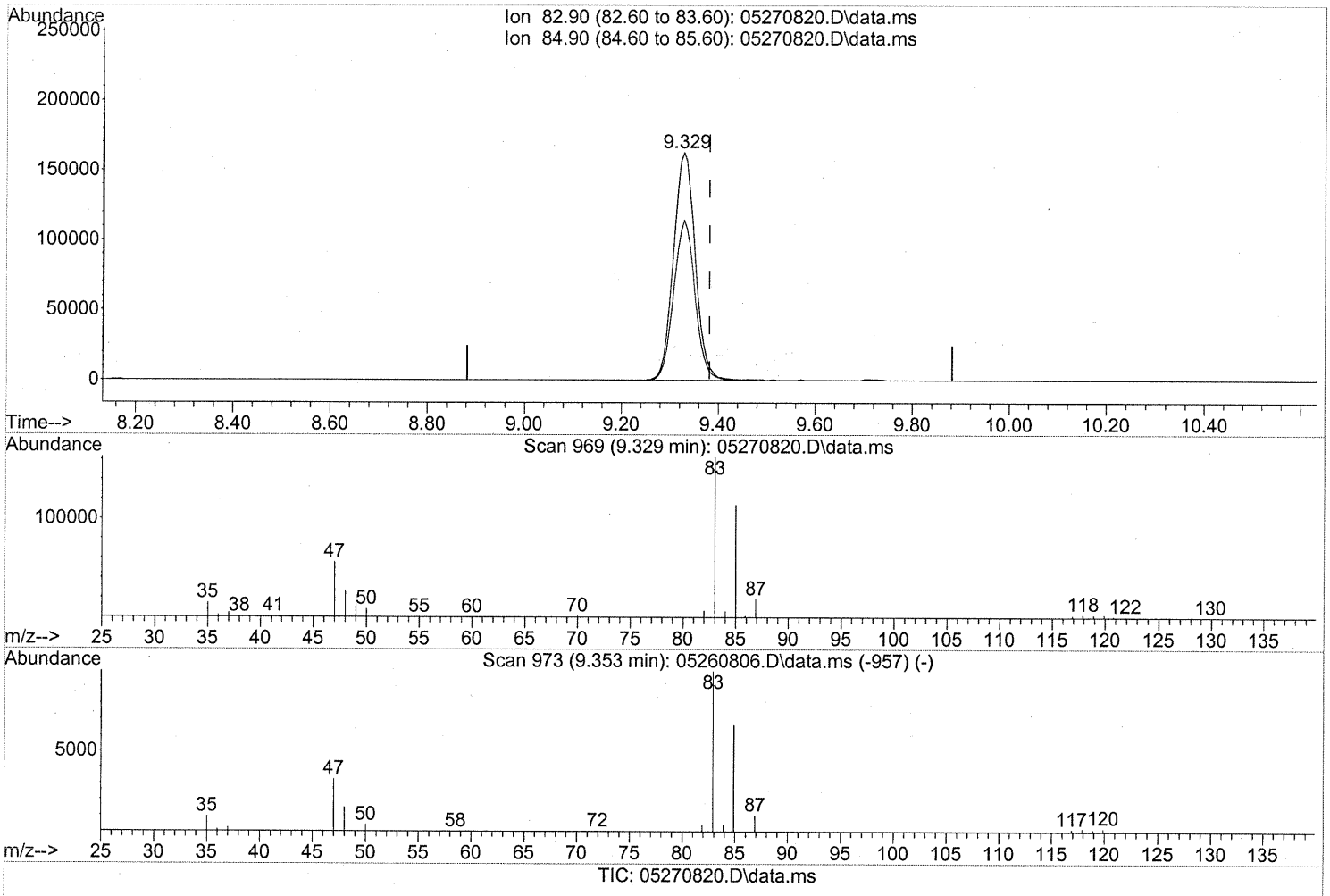
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	701.37#
0.00	0.00	0.00
0.00	0.00	0.00

603

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(32) Chloroform (T)

9.329min (-0.053) 21.89ng

response 502819

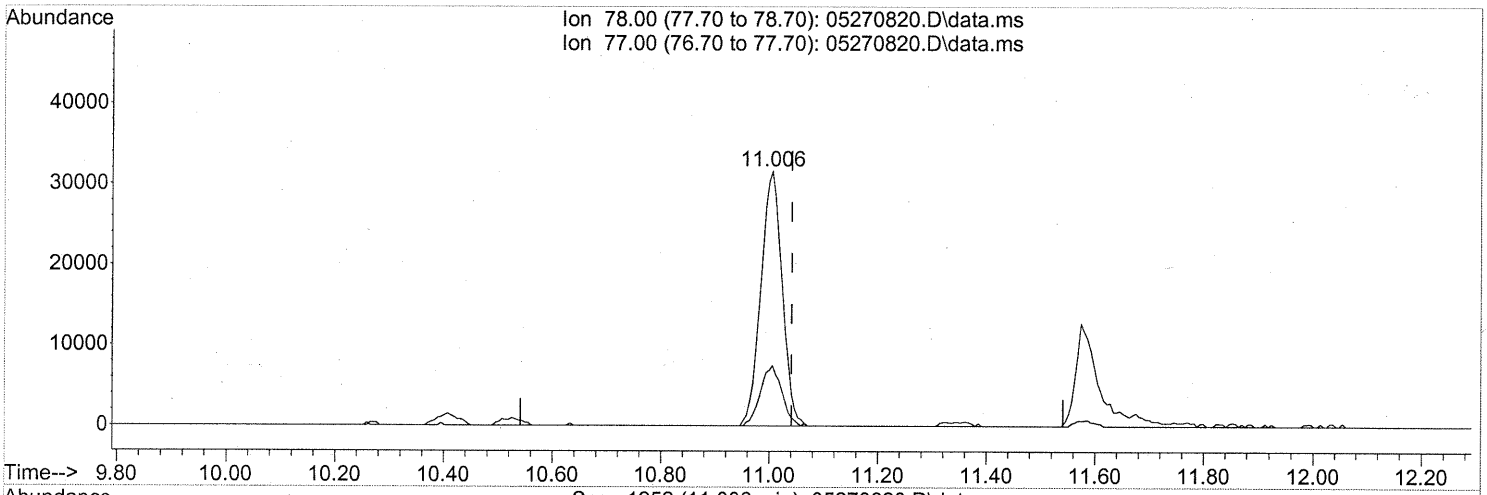
Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.75
0.00	0.00	0.00
0.00	0.00	0.00

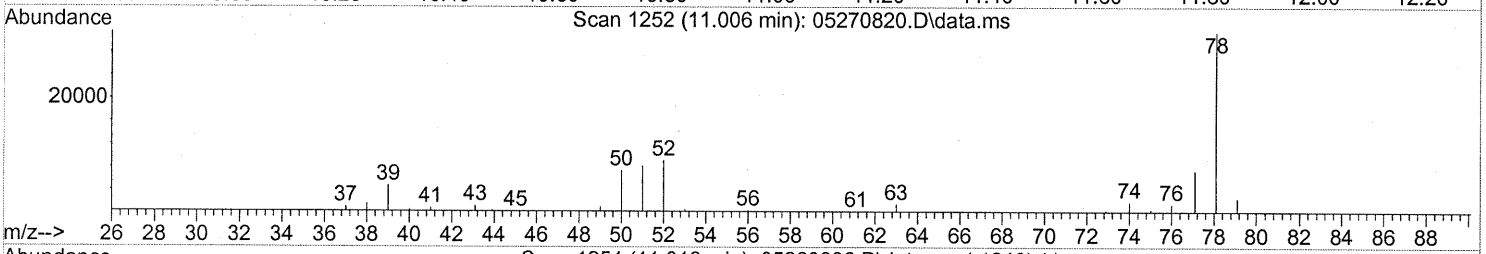
604

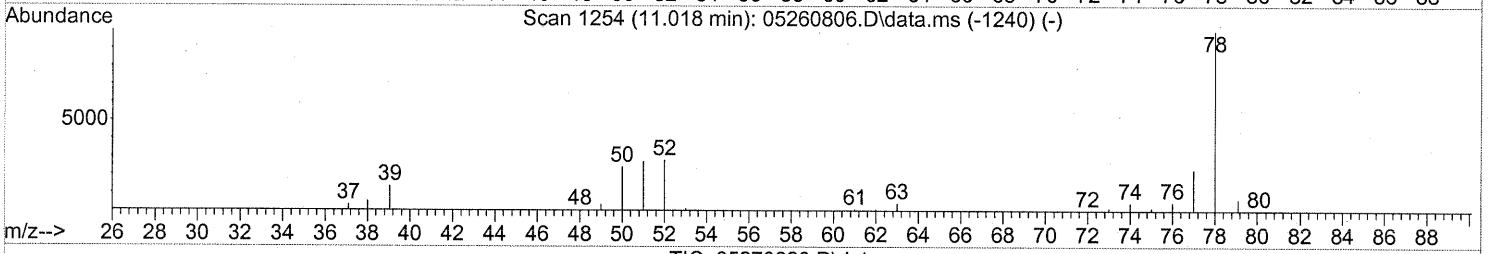
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(41) Benzene (T)

11.006min (-0.036) 1.26ng

response 85981

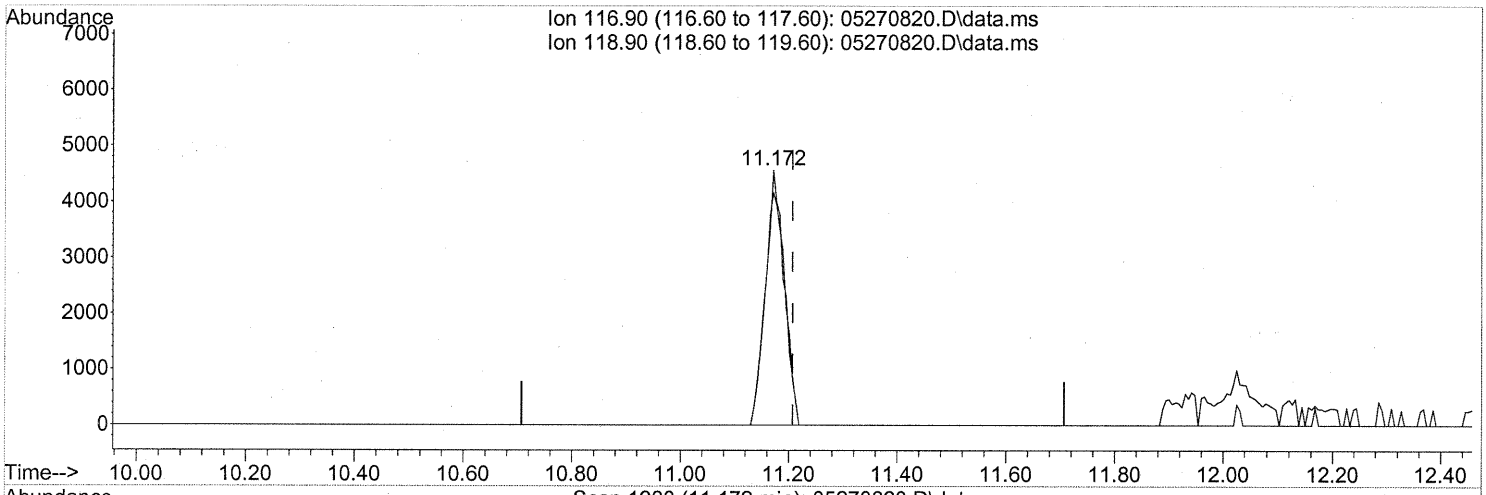
Ion	Exp%	Act%
78.00	100	100
77.00	23.50	23.69
0.00	0.00	0.00
0.00	0.00	0.00

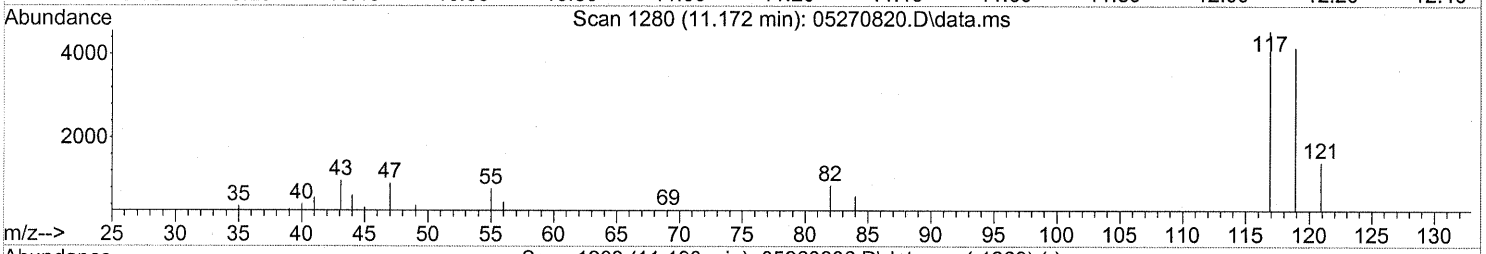
605

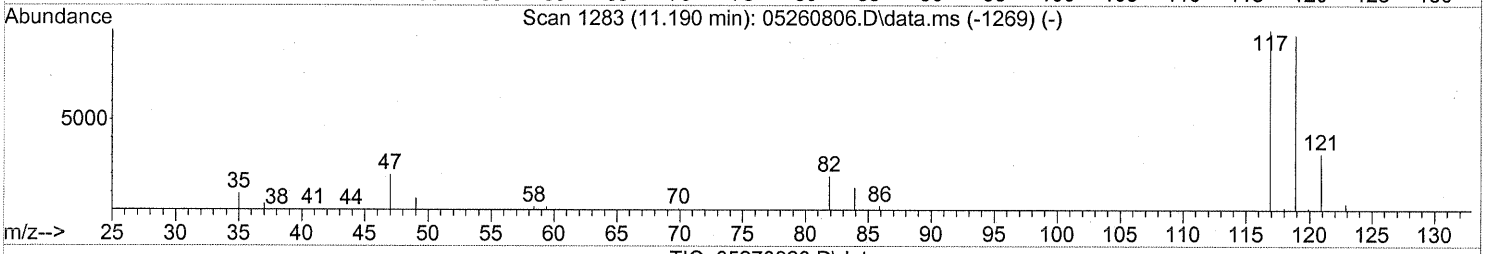
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(42) Carbon Tetrachloride (T)

11.172min (-0.036) 0.39ng

response 10901

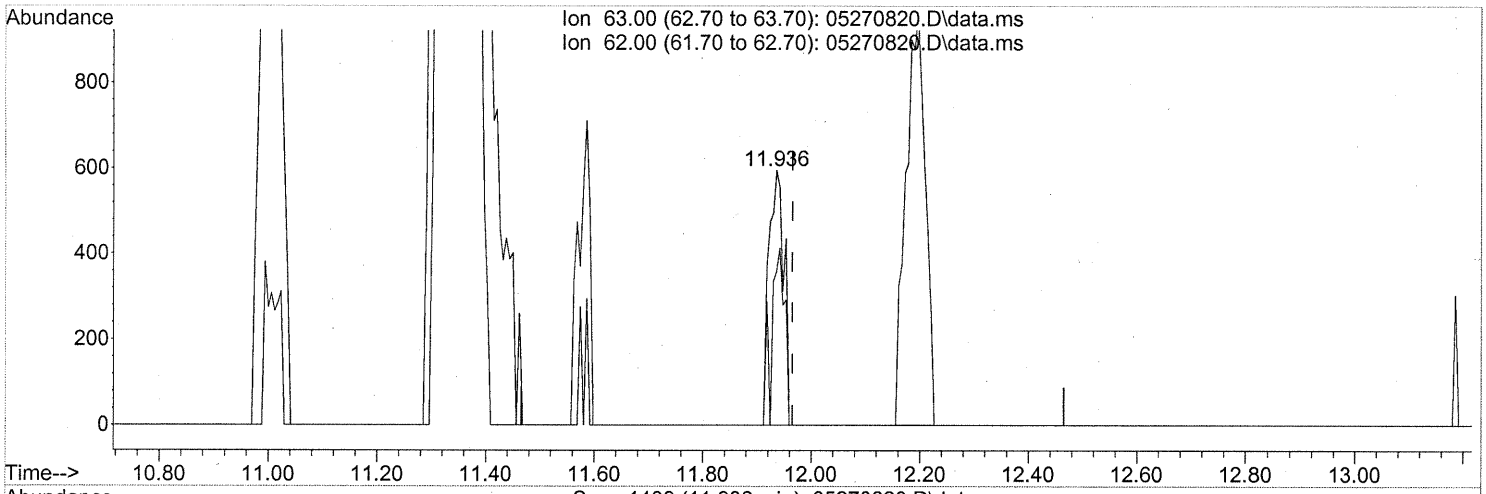
Ion	Exp%	Act%
116.90	100	100
118.90	95.30	99.93
0.00	0.00	0.00
0.00	0.00	0.00

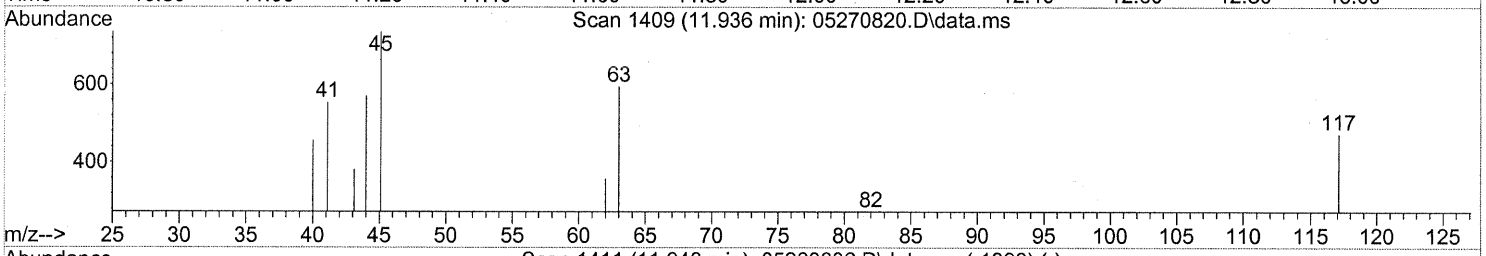
606

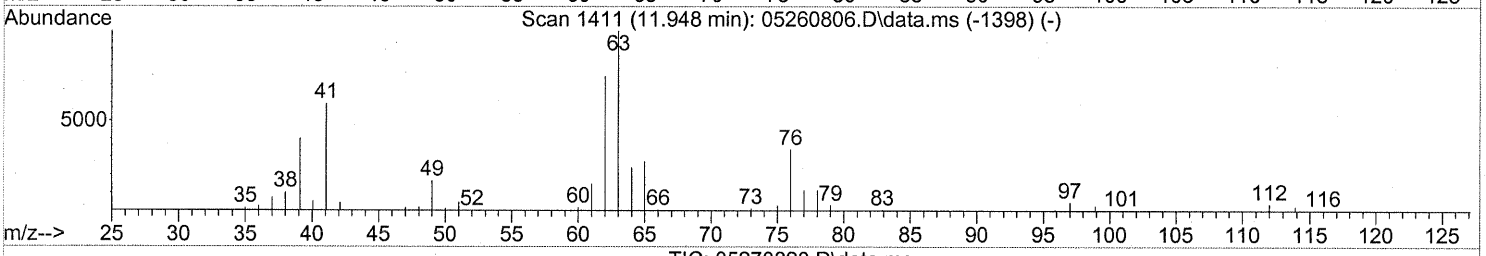
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(45) 1,2-Dichloropropane (T)

11.936min (-0.030) 0.06ng

response 1150

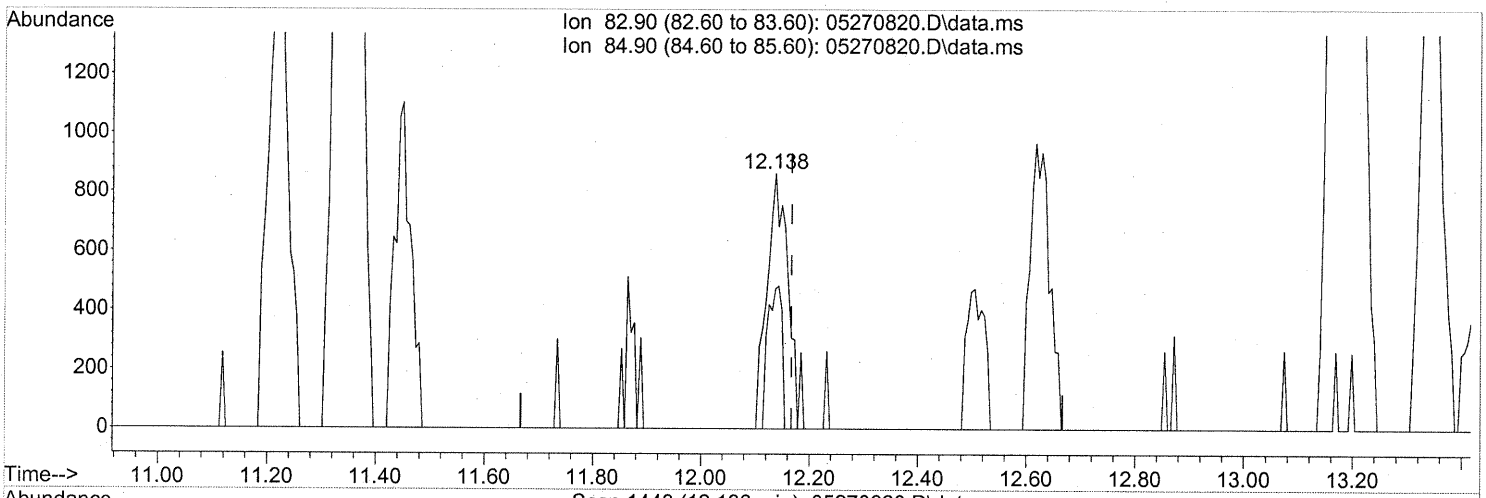
Ion	Exp%	Act%
63.00	100	100
62.00	72.20	60.61
0.00	0.00	0.00
0.00	0.00	0.00

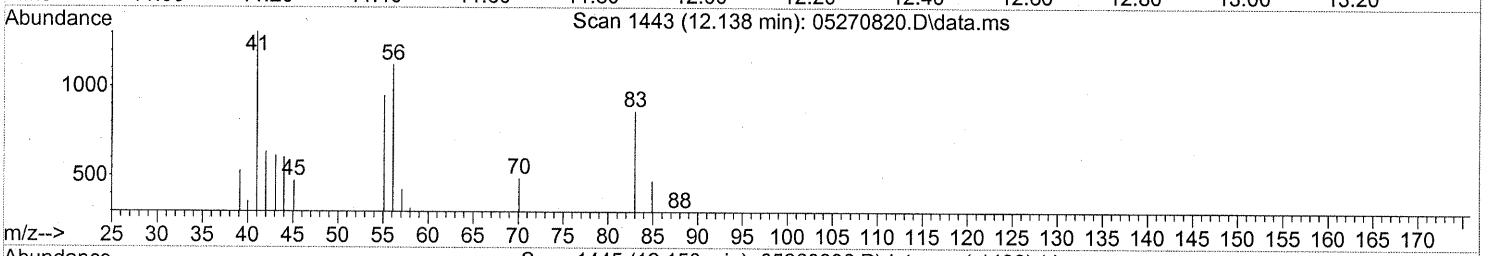
607

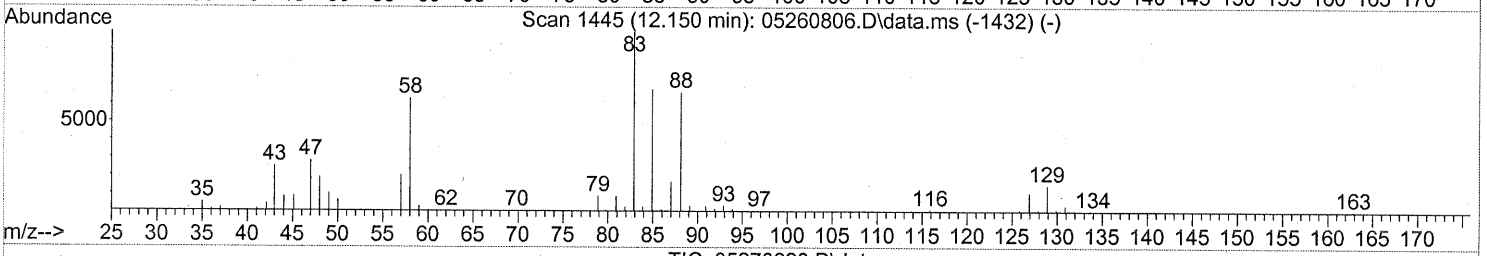
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(46) Bromodichloromethane (T)

12.138min (-0.030) 0.12ng

response 2372

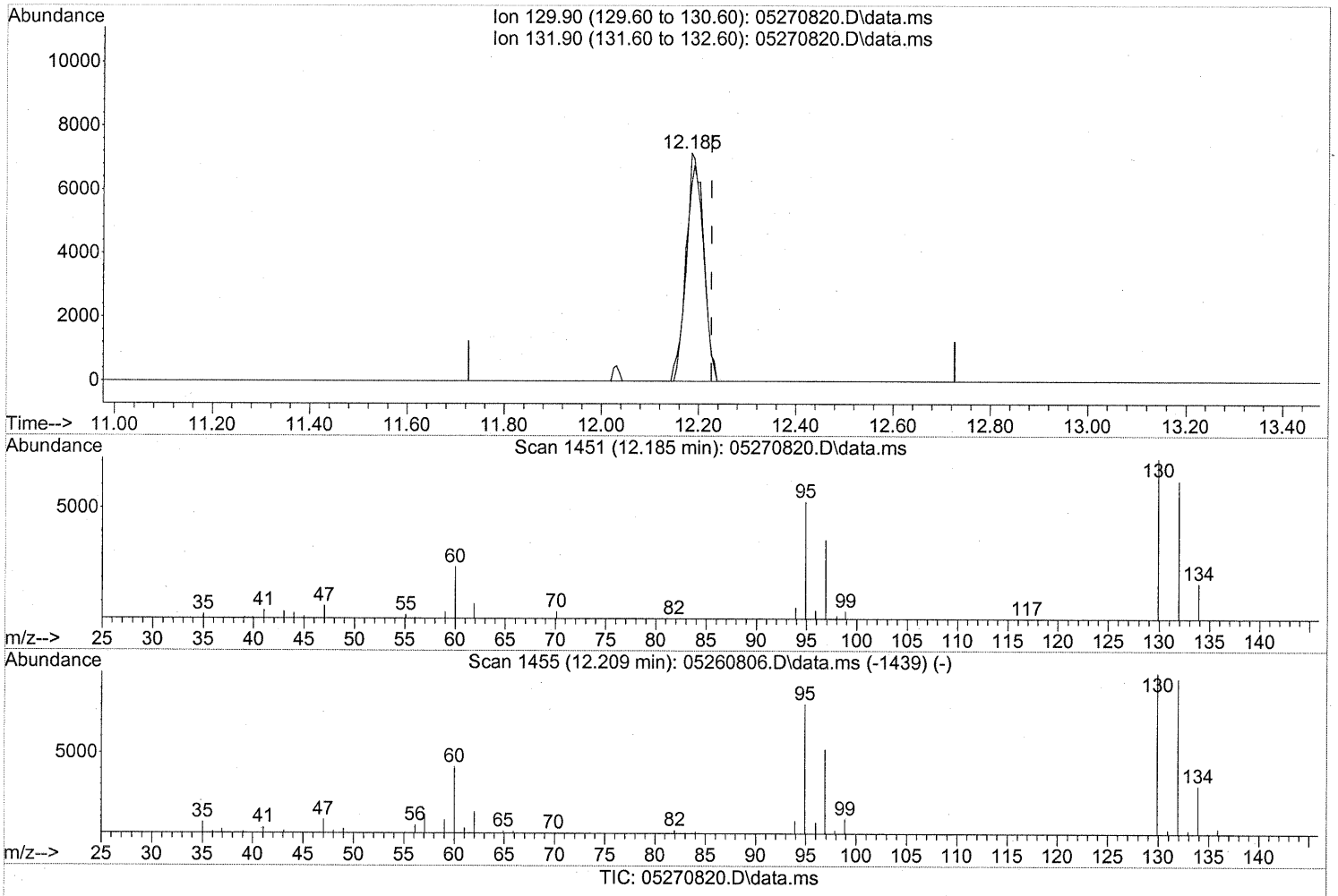
Ion	Exp%	Act%
82.90	100	100
84.90	62.30	37.31#
0.00	0.00	0.00
0.00	0.00	0.00

608

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(47) Trichloroethene (T)

12.185min (-0.042) 0.84ng

response 18006

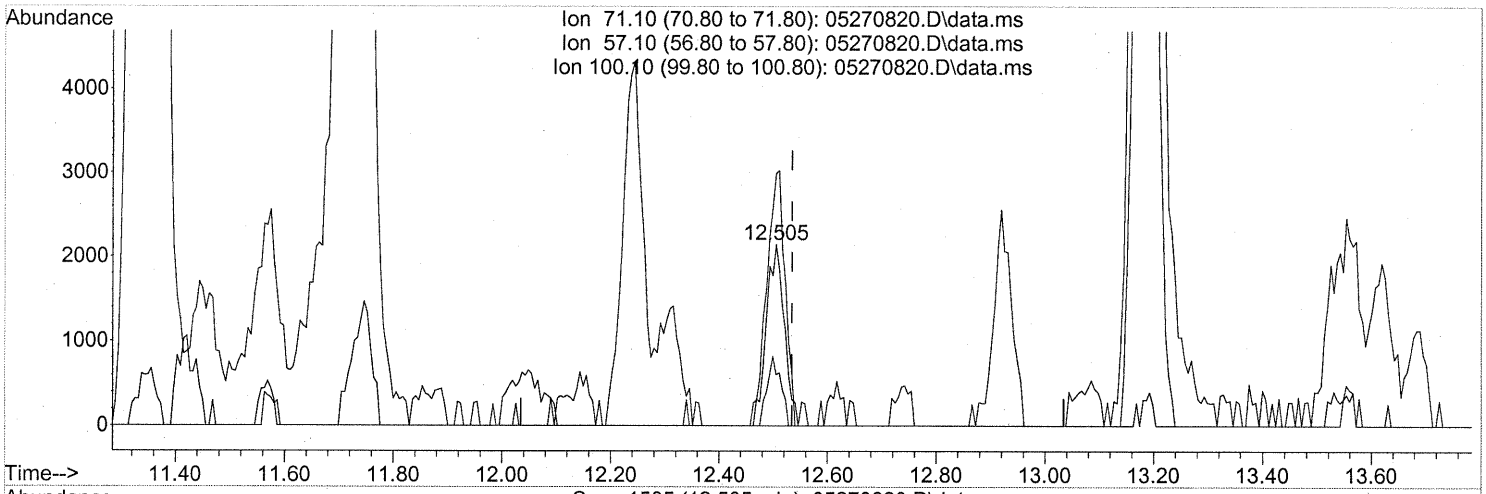
Ion	Exp%	Act%
129.90	100	100
131.90	95.10	95.53
0.00	0.00	0.00
0.00	0.00	0.00

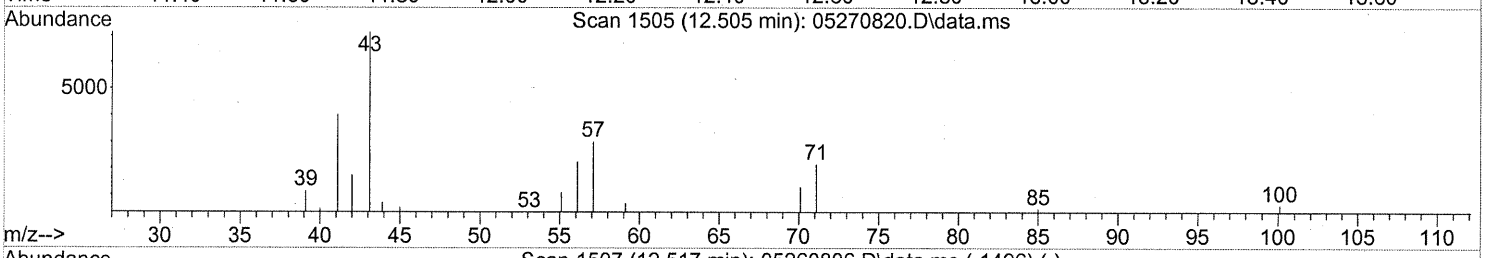
609

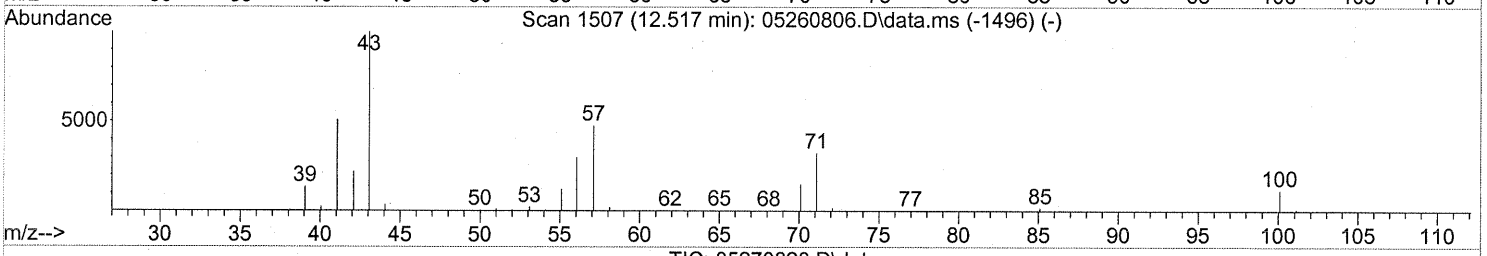
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(51) n-Heptane (T)

12.505min (-0.030) 0.30ng

response 4943

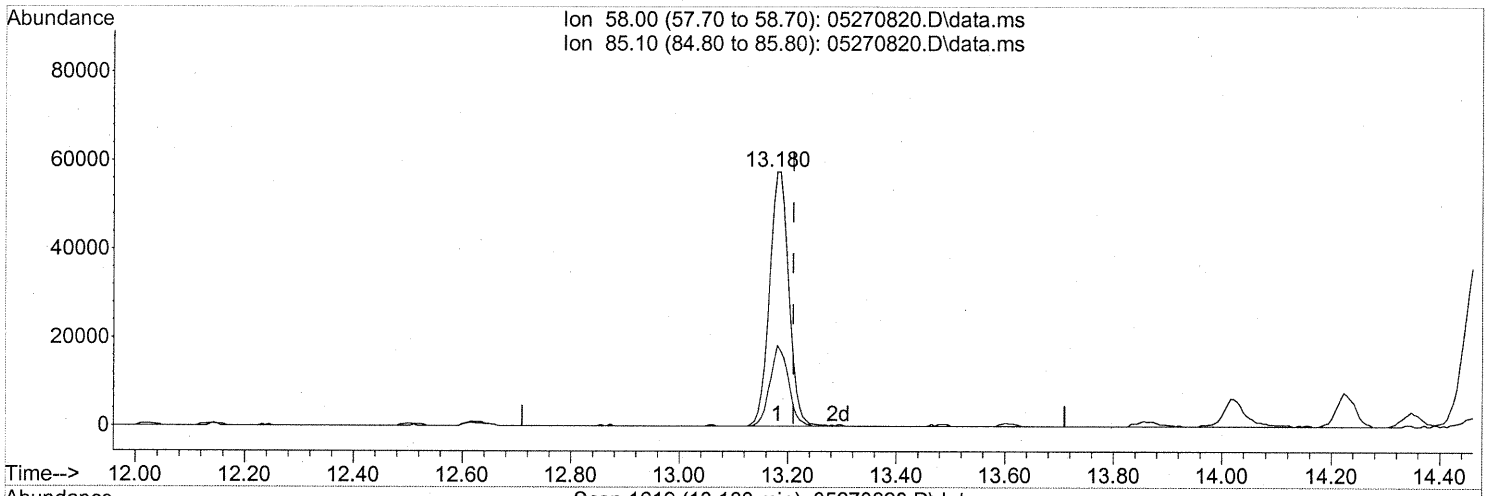
Ion	Exp%	Act%
71.10	100	100
57.10	88.70	145.52#
100.10	28.80	29.29
0.00	0.00	0.00

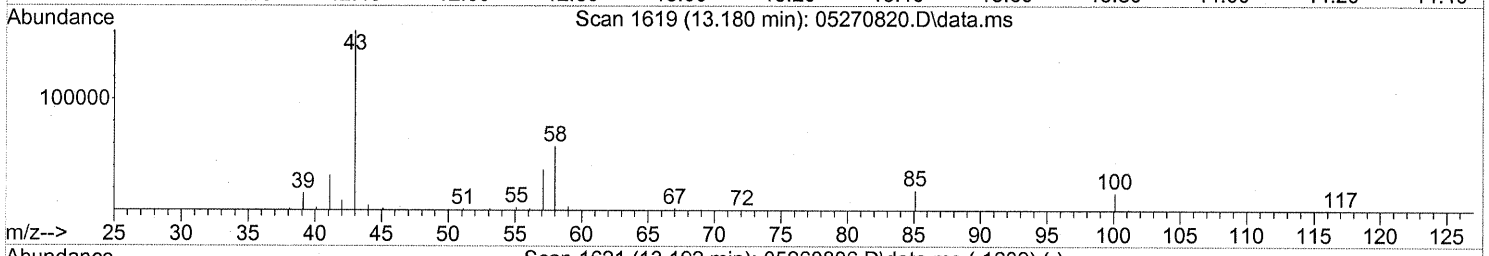
610

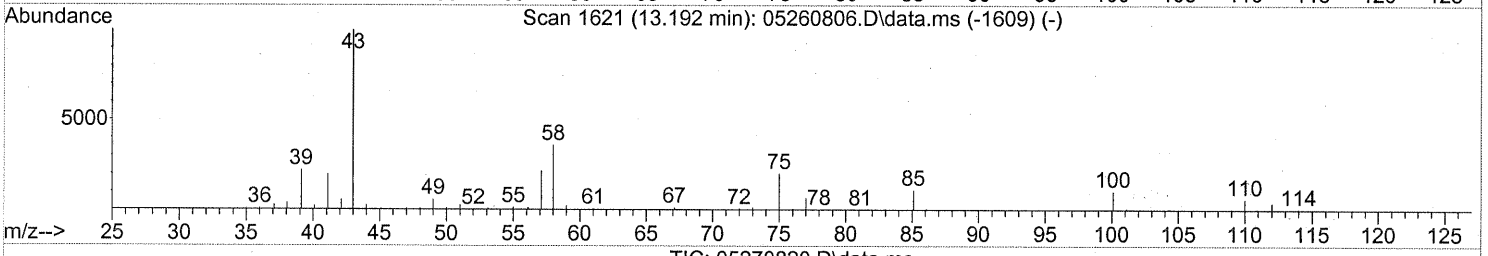
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

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

13.180min (-0.030) 5.97ng

response 142119

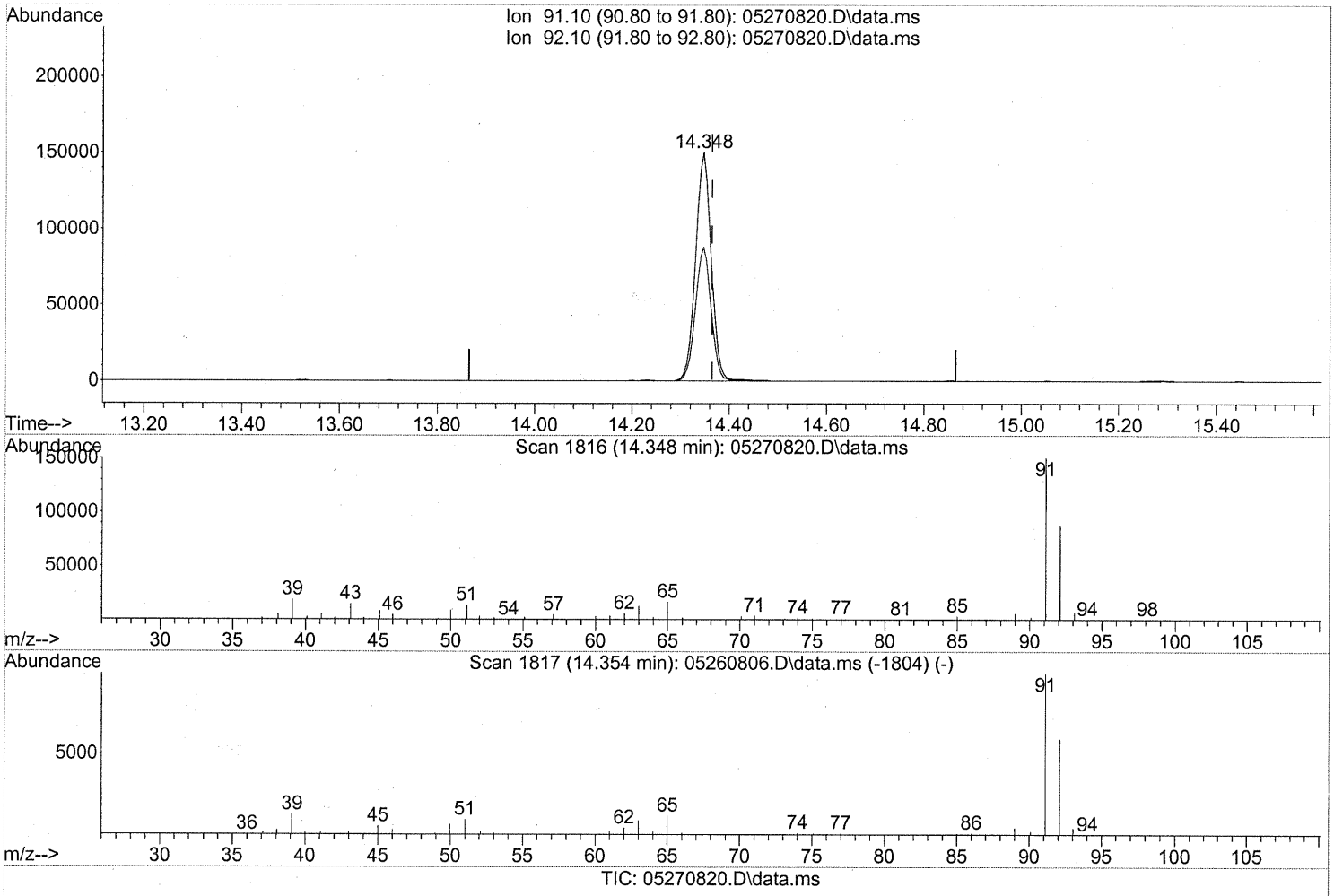
Ion	Exp%	Act%
58.00	100	100
85.10	40.70	30.19
0.00	0.00	0.00
0.00	0.00	0.00

611

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 4.37ng

response 340441

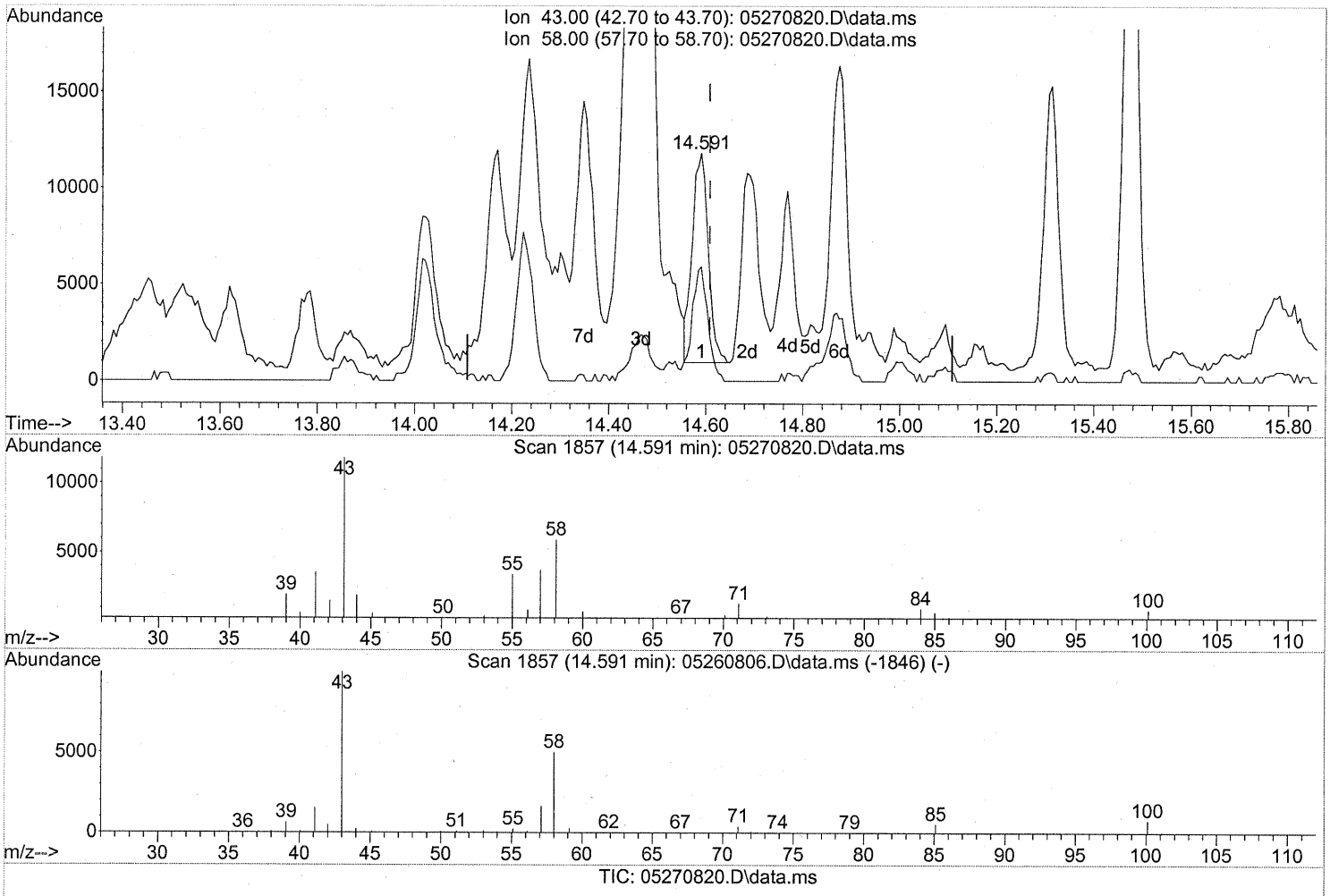
Ion	Exp%	Act%
91.10	100	100
92.10	57.80	58.68
0.00	0.00	0.00
0.00	0.00	0.00

612

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(59) 2-Hexanone (T)

14.591min (-0.018) 0.34ng

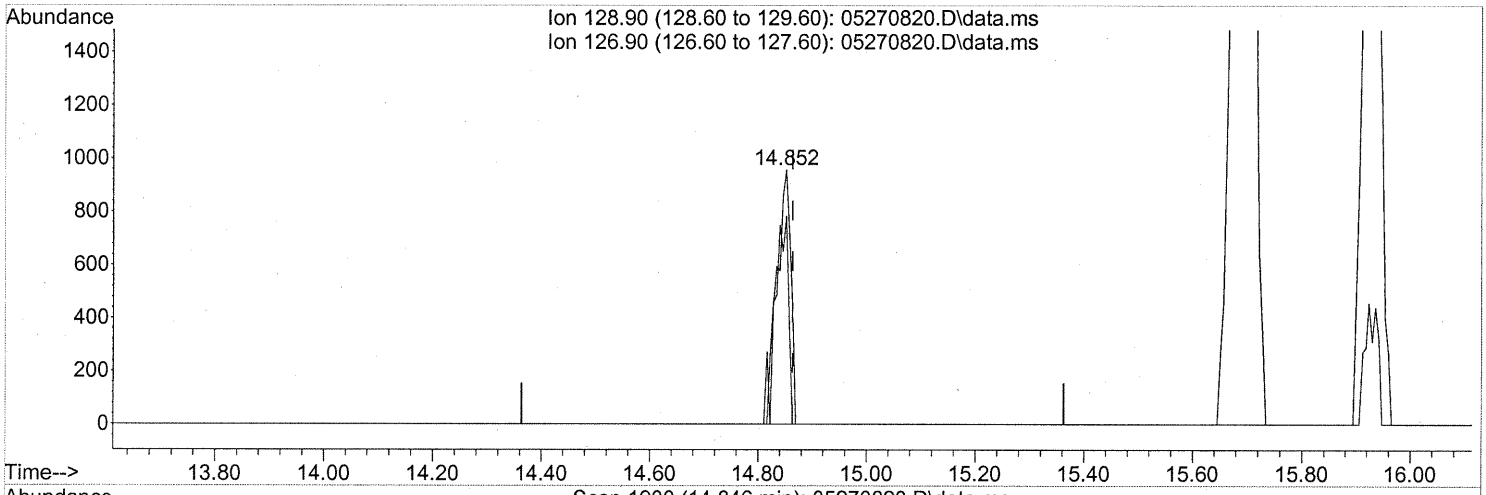
response 25031

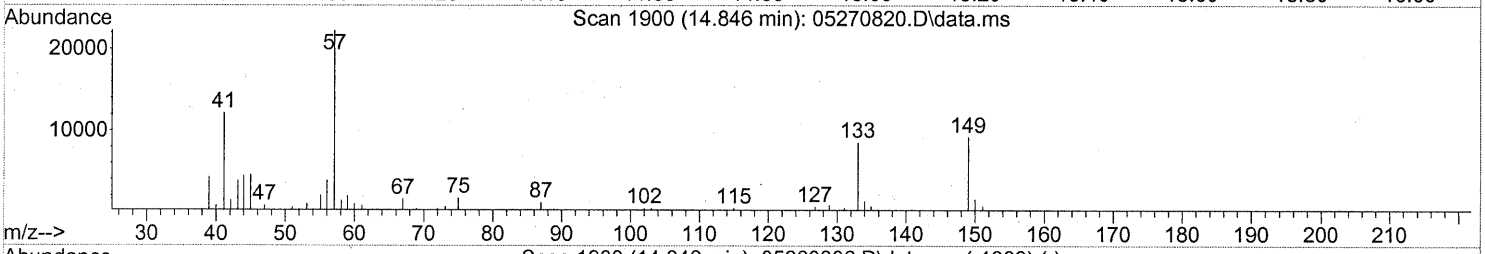
Ion	Exp%	Act%
43.00	100	100
58.00	50.90	54.01
0.00	0.00	0.00
0.00	0.00	0.00

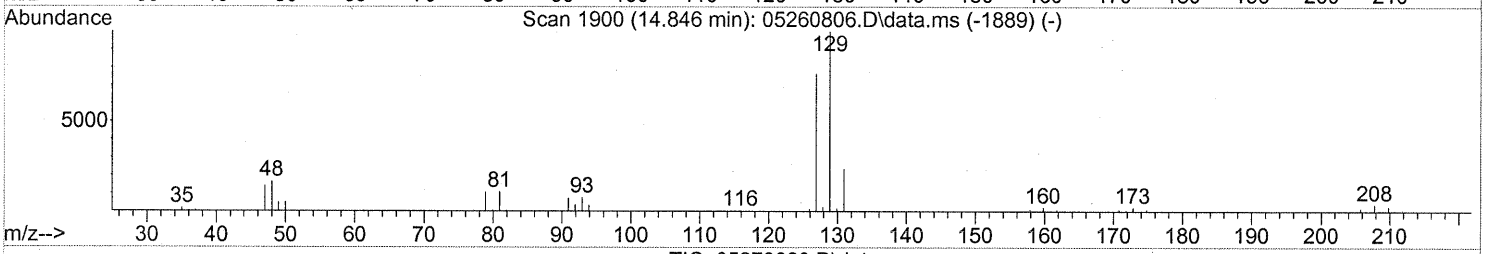
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(60) Dibromochloromethane (T)

14.852min (-0.012) 0.08ng

response 1731

before

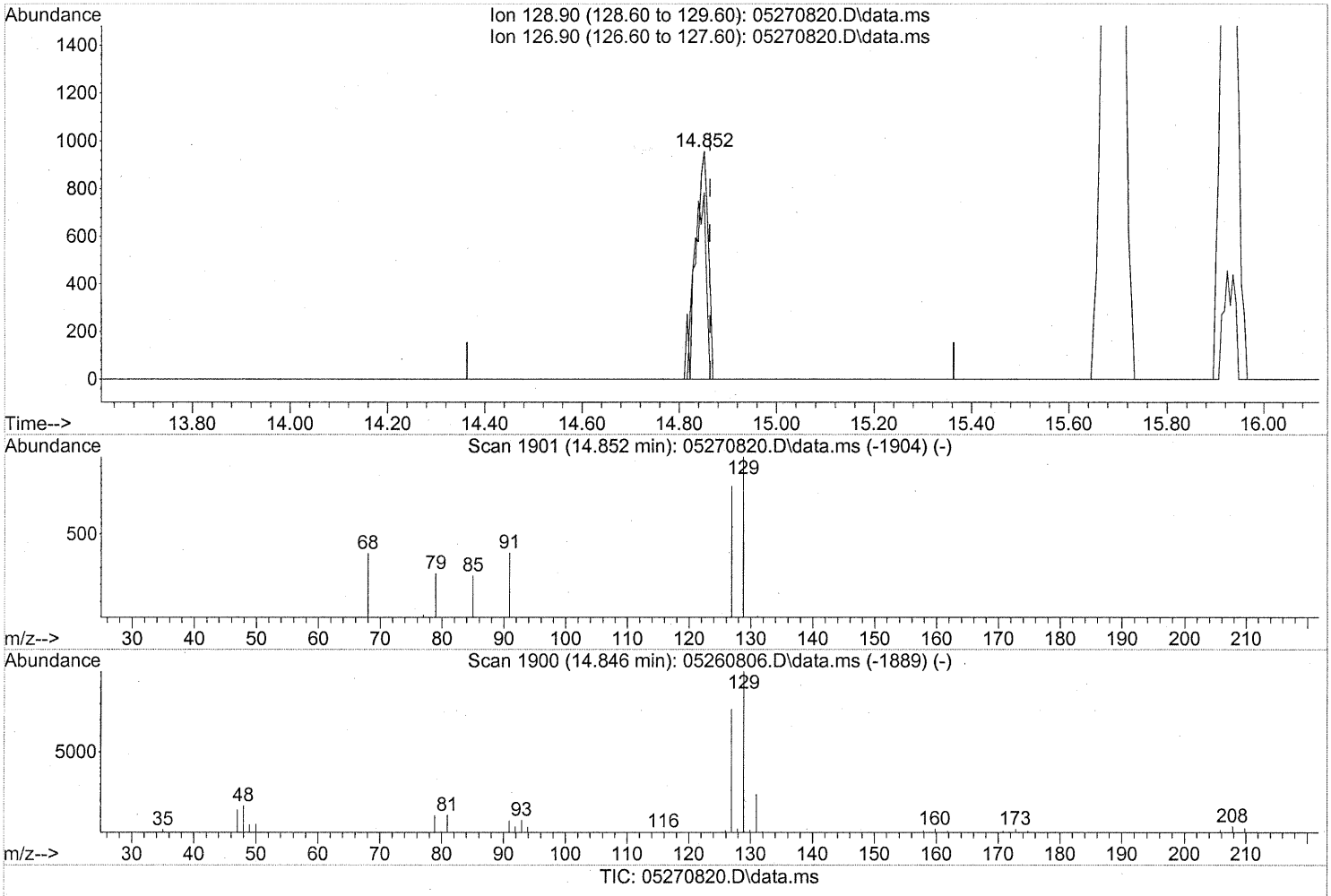
Ion	Exp%	Act%
128.90	100	100
126.90	77.20	76.89
0.00	0.00	0.00
0.00	0.00	0.00

614

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 09:11:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(60) Dibromochloromethane (T)

14.852min (-0.012) 0.08ng

response 1731

Ion	Exp%	Act%
128.90	100	100
126.90	77.20	76.89
0.00	0.00	0.00
0.00	0.00	0.00

after subsbr

DA 6/4/08

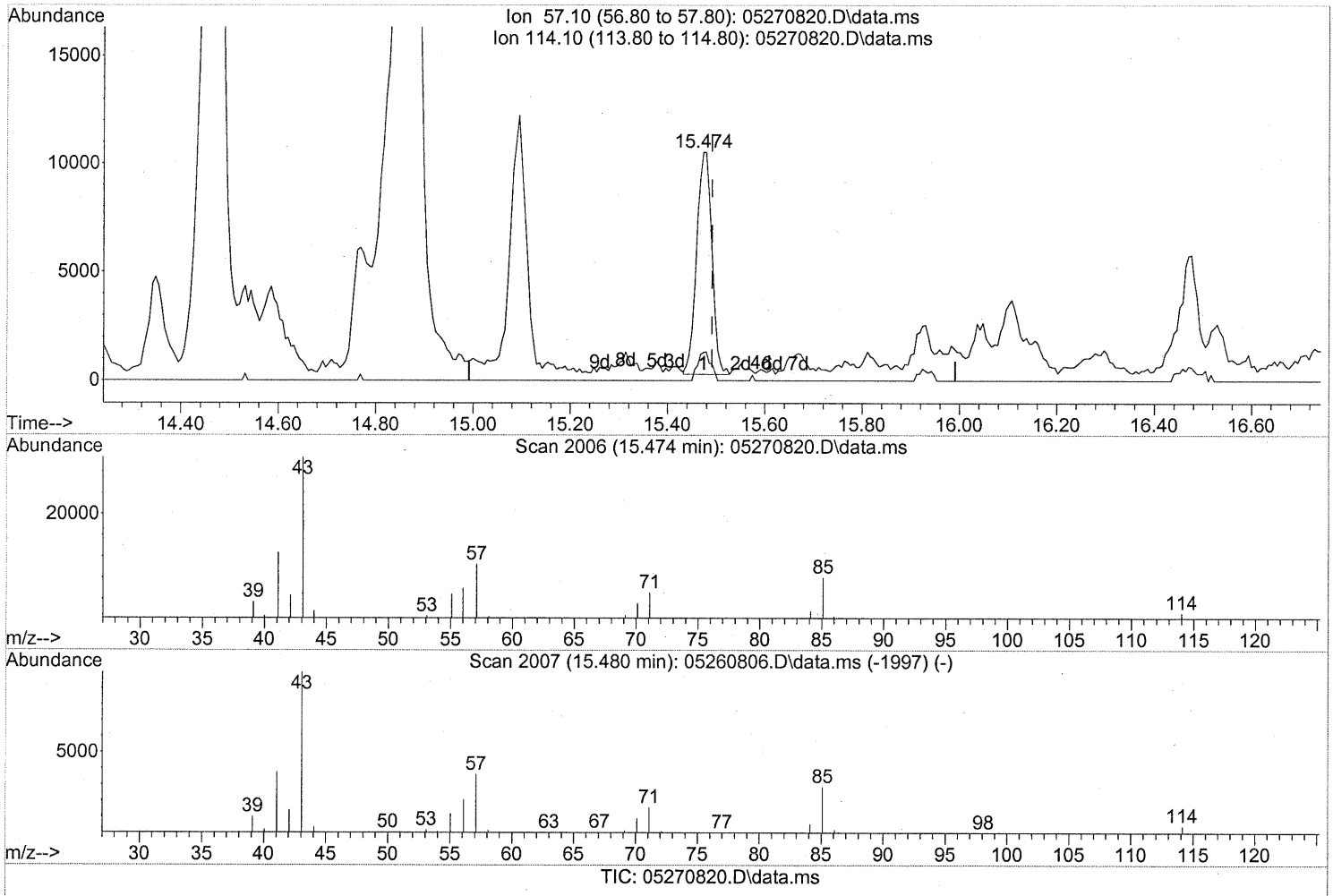
C. 6/4/08

615

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(63) n-Octane (T)

15.474min (-0.018) 0.94ng

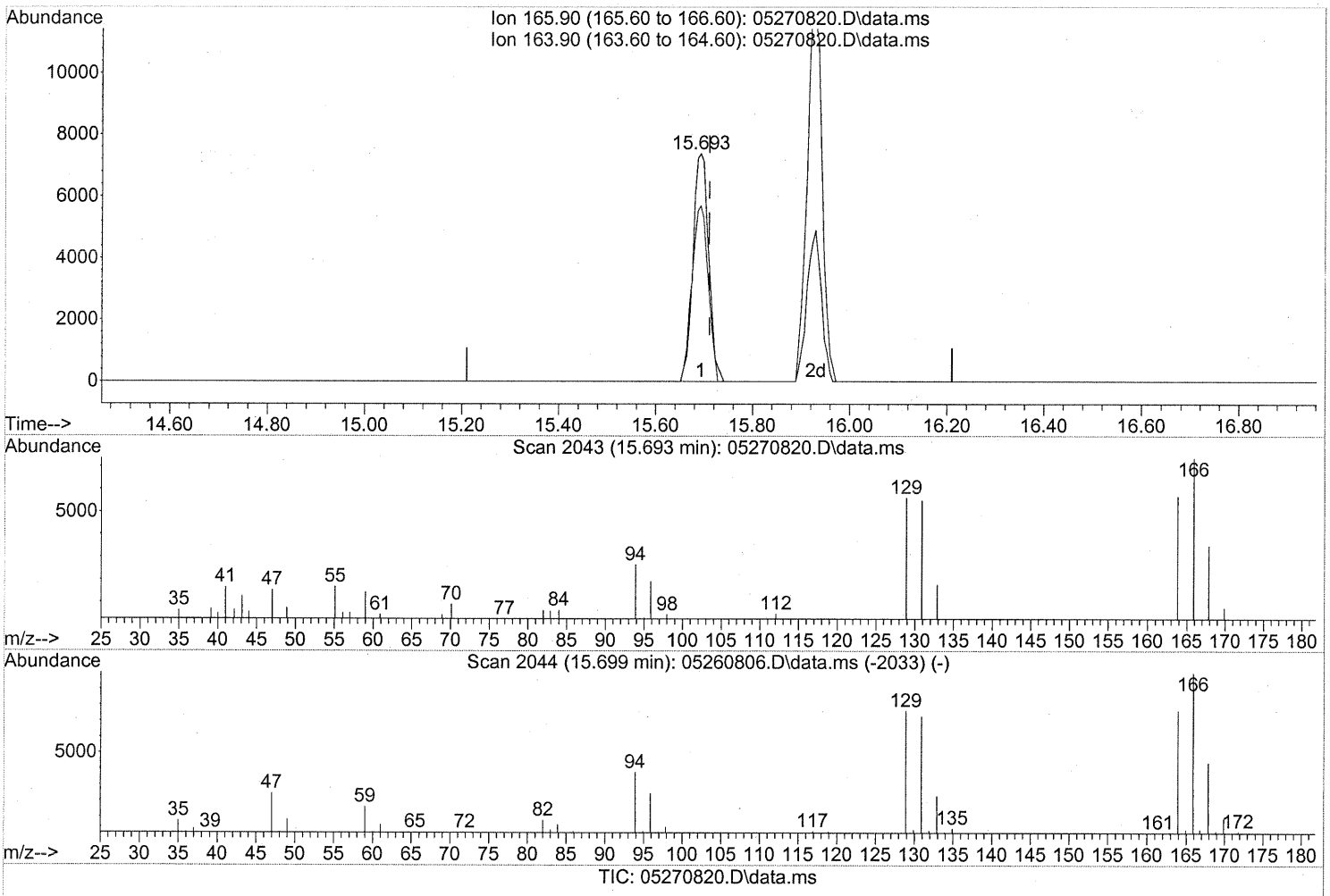
response 22197

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.21
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(64) Tetrachloroethene (T)

15.693min (-0.018) 0.73ng

response 16929

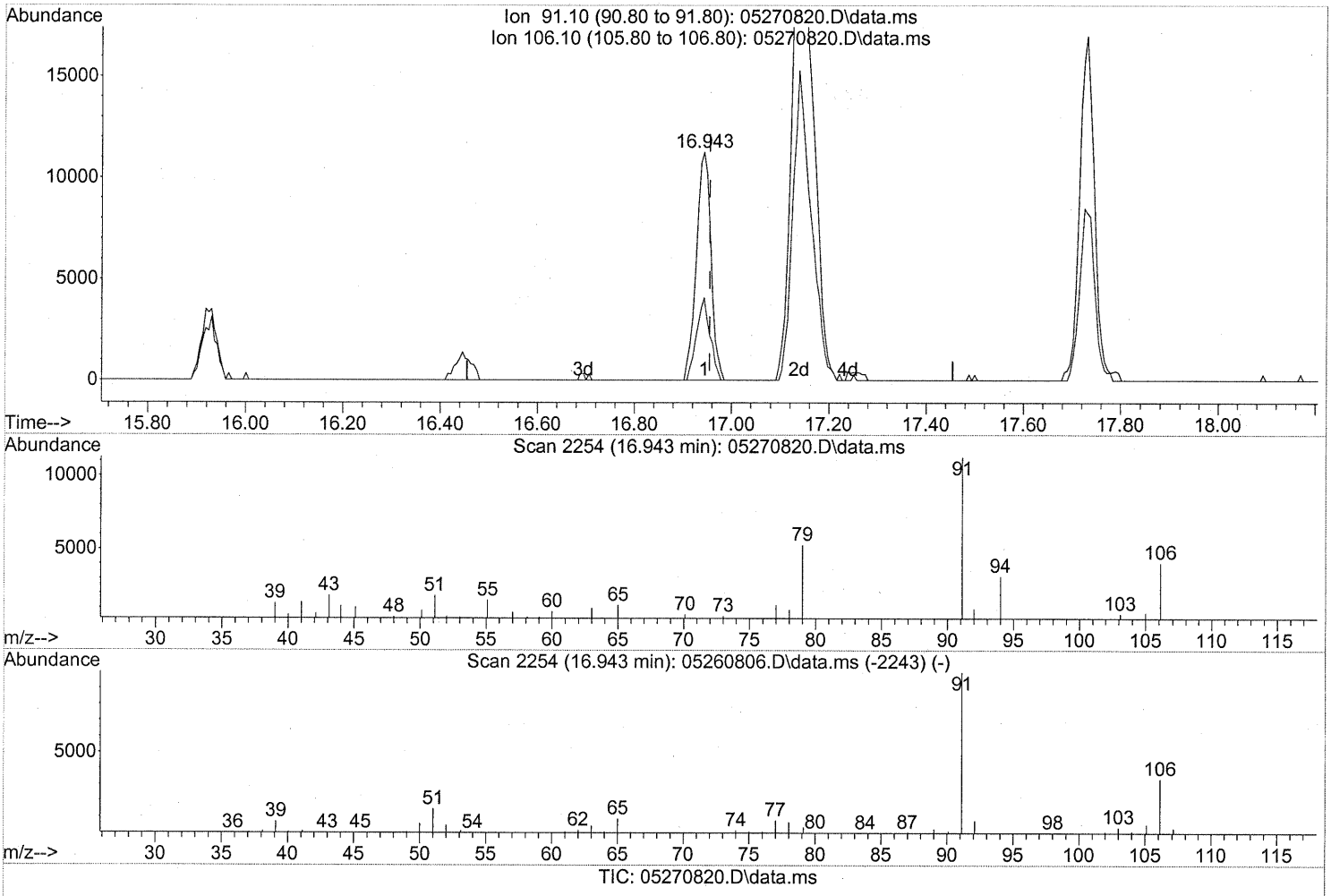
Ion	Exp%	Act%
165.90	100	100
163.90	77.50	77.23
0.00	0.00	0.00
0.00	0.00	0.00

617

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(66) Ethylbenzene (T)

16.943min (-0.012) 0.27ng

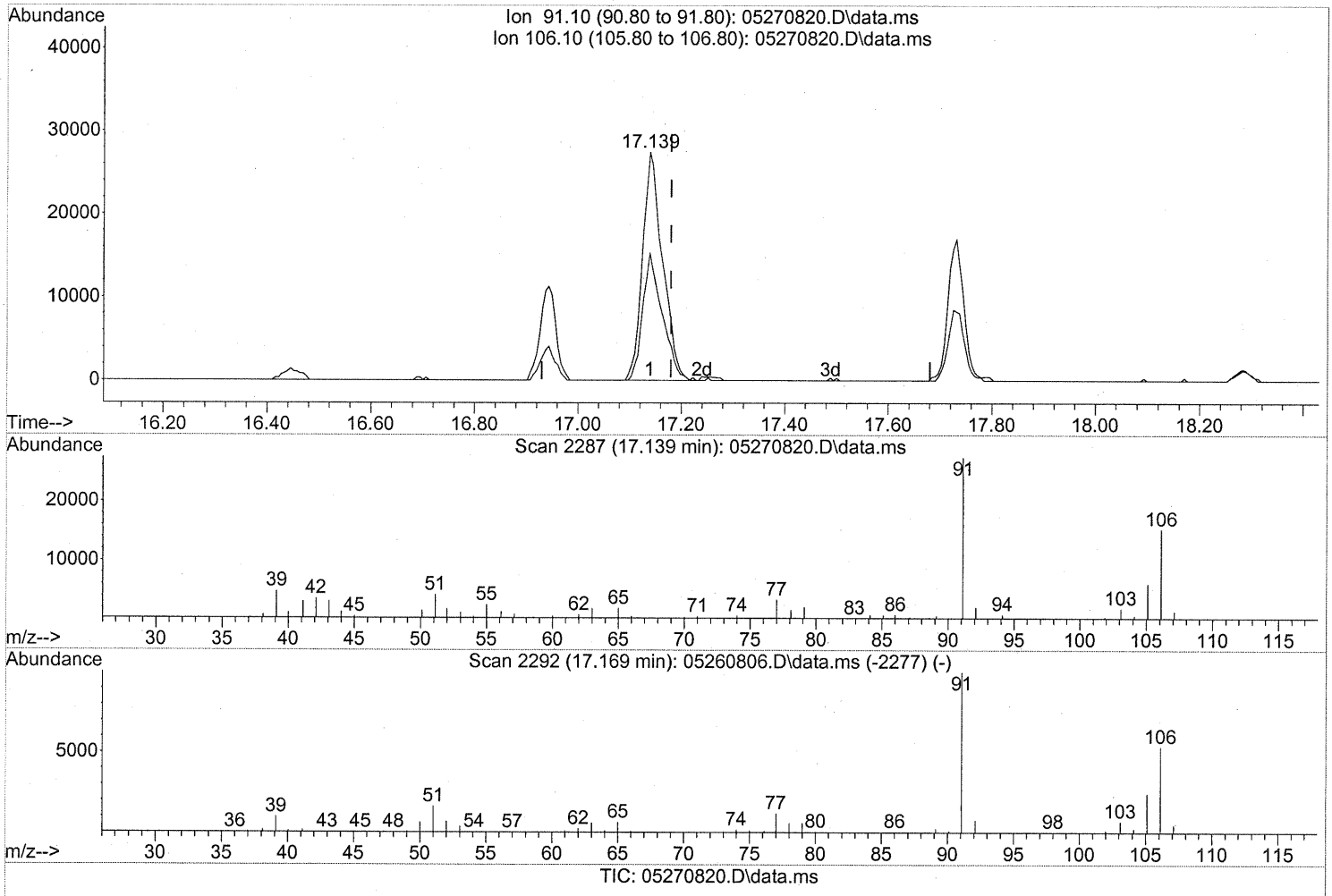
response 23852

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	33.36
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

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

17.139min (-0.042) 1.26ng

response 74048

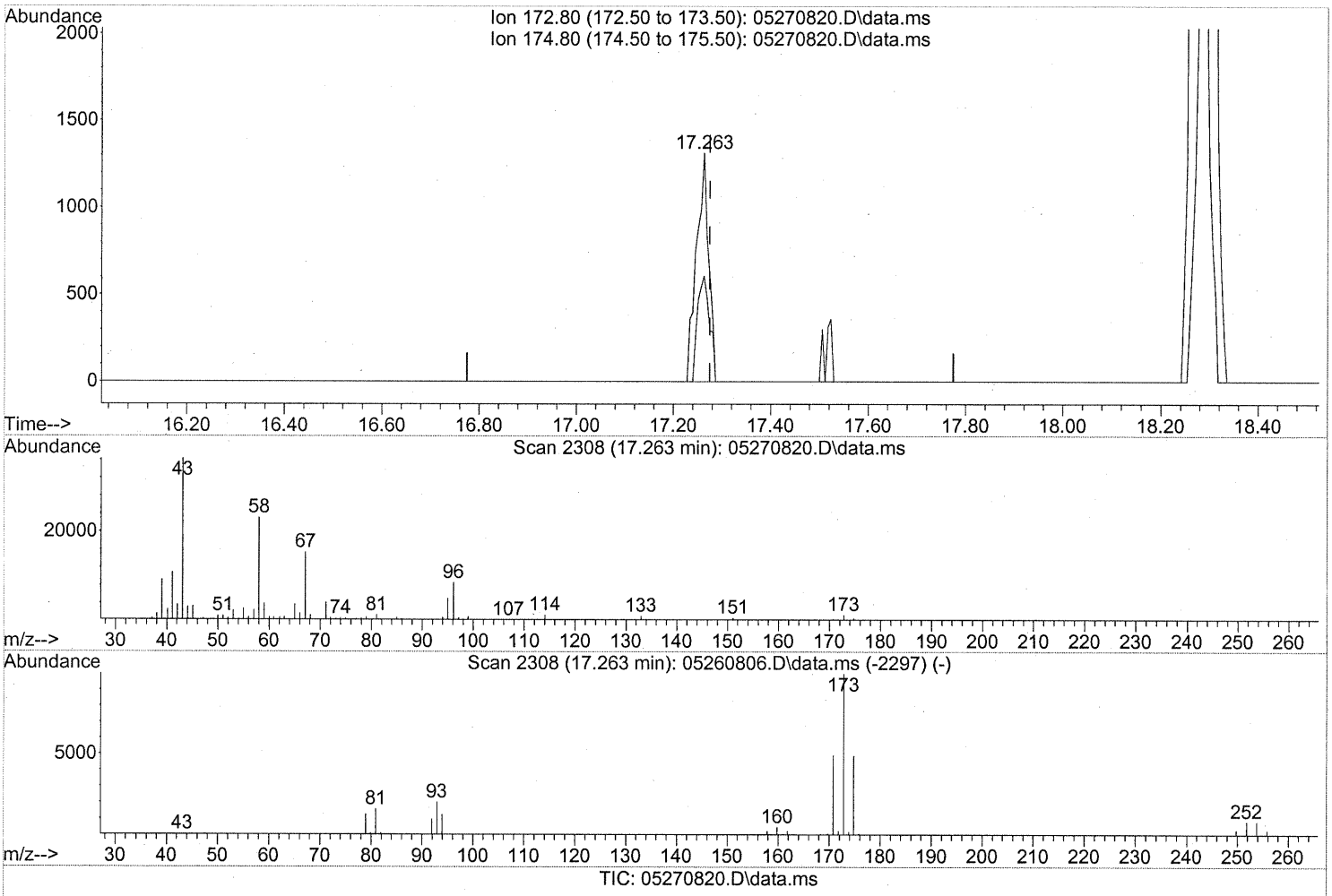
Ion	Exp%	Act%
91.10	100	100
106.10	48.00	54.10
0.00	0.00	0.00
0.00	0.00	0.00

619

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(68) Bromoform (T)

17.263min (-0.012) 0.17ng

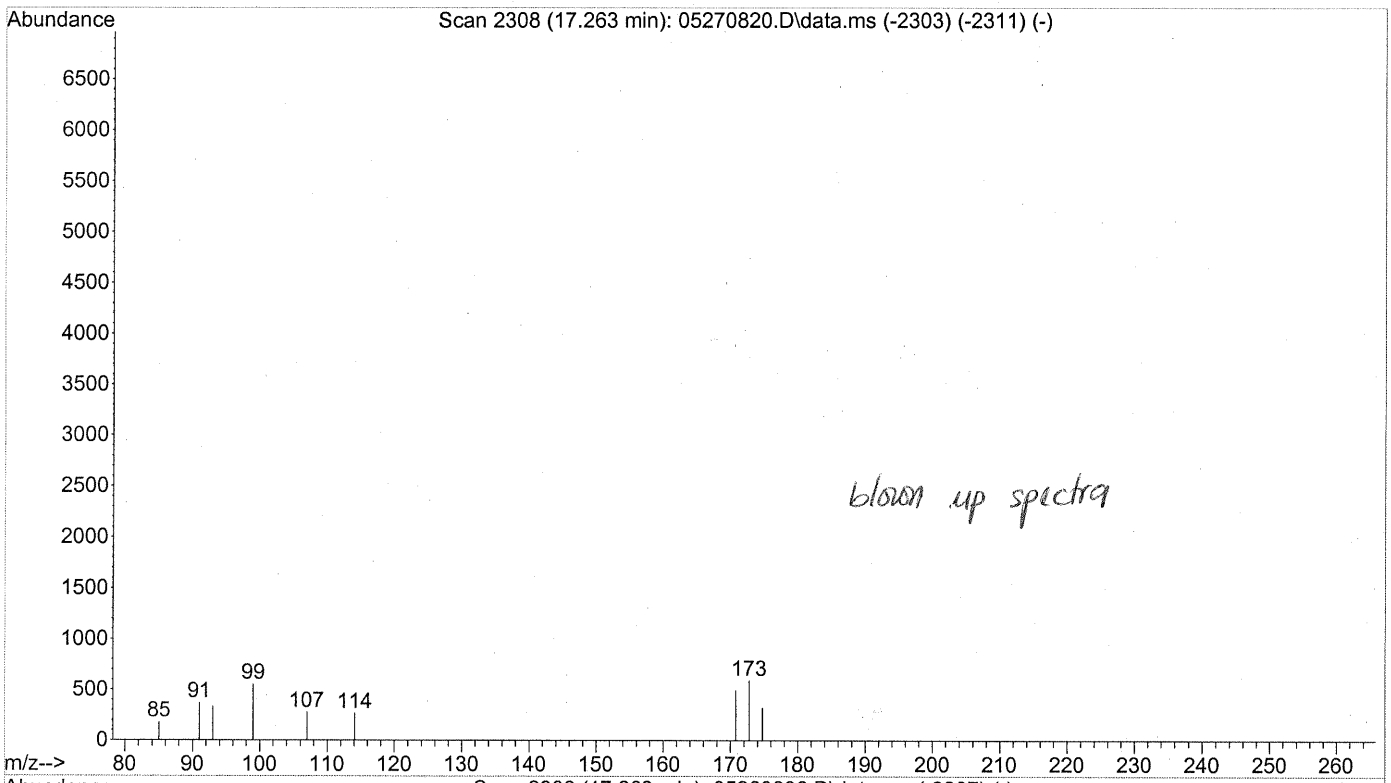
response 2307

Ion	Exp%	Act%
172.80	100	100
174.80	48.50	45.30
0.00	0.00	0.00
0.00	0.00	0.00

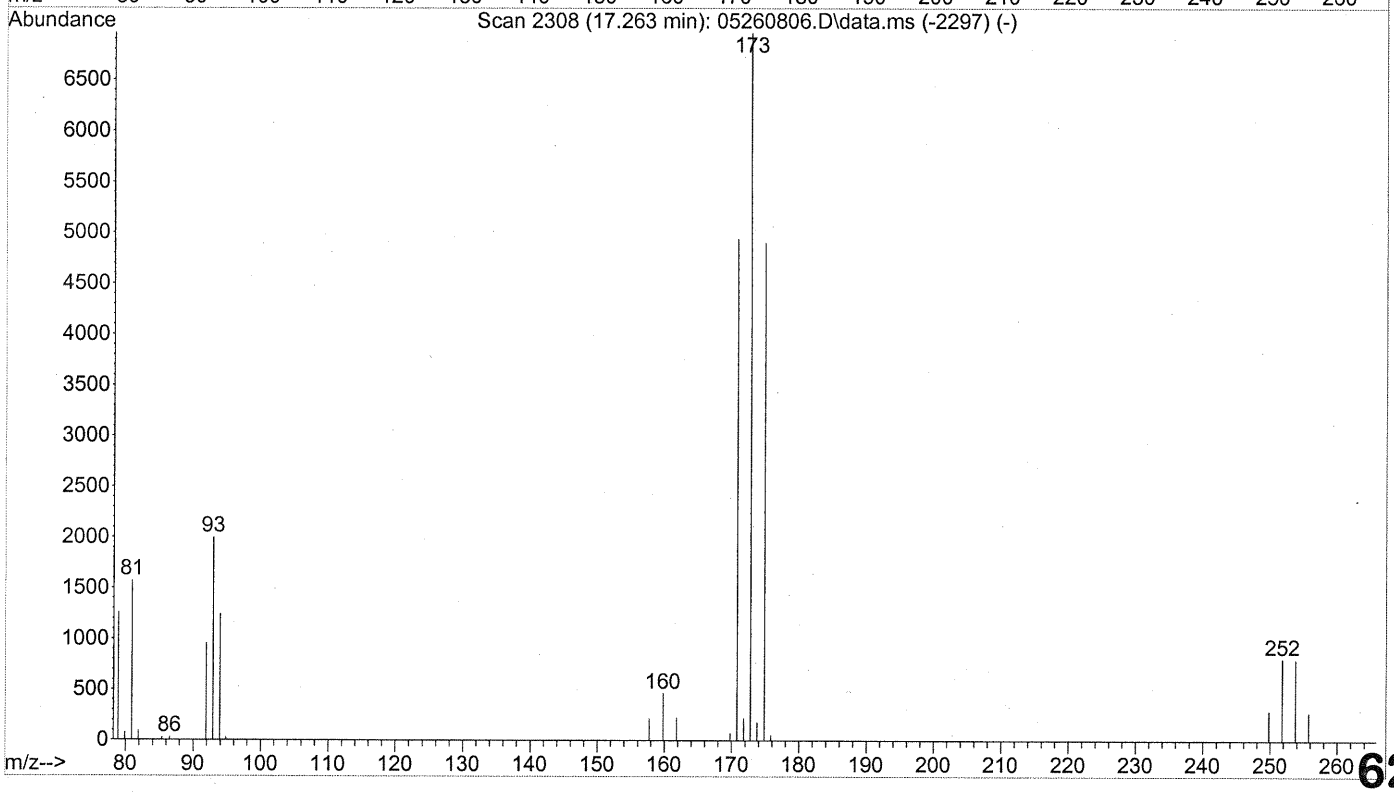
see blown up spectra

620

File :J:\MS16\DATA\2008_05\27\05270820.D
Operator : WA
Acquired : 28 May 2008 1:01 using AcqMethod TO15.M
Instrument : GCMS-16
Sample Name: P0801507-015 (1000ml)
Misc Info : ENSR SG06B-05 (-2.9, 3.5)
Vial Number: 12



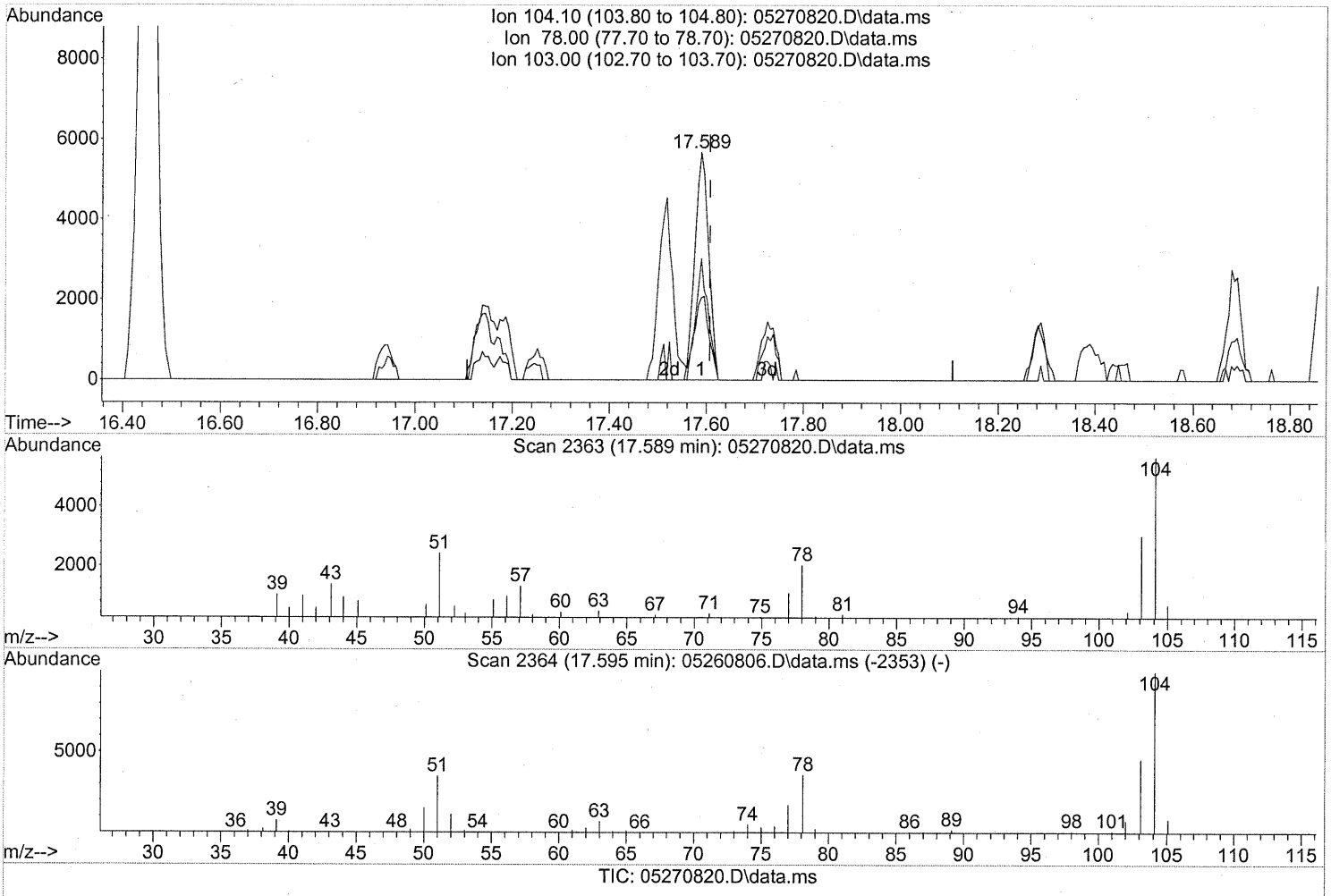
blown up spectra



Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(69) Styrene (T)

17.589min (-0.018) 0.20ng

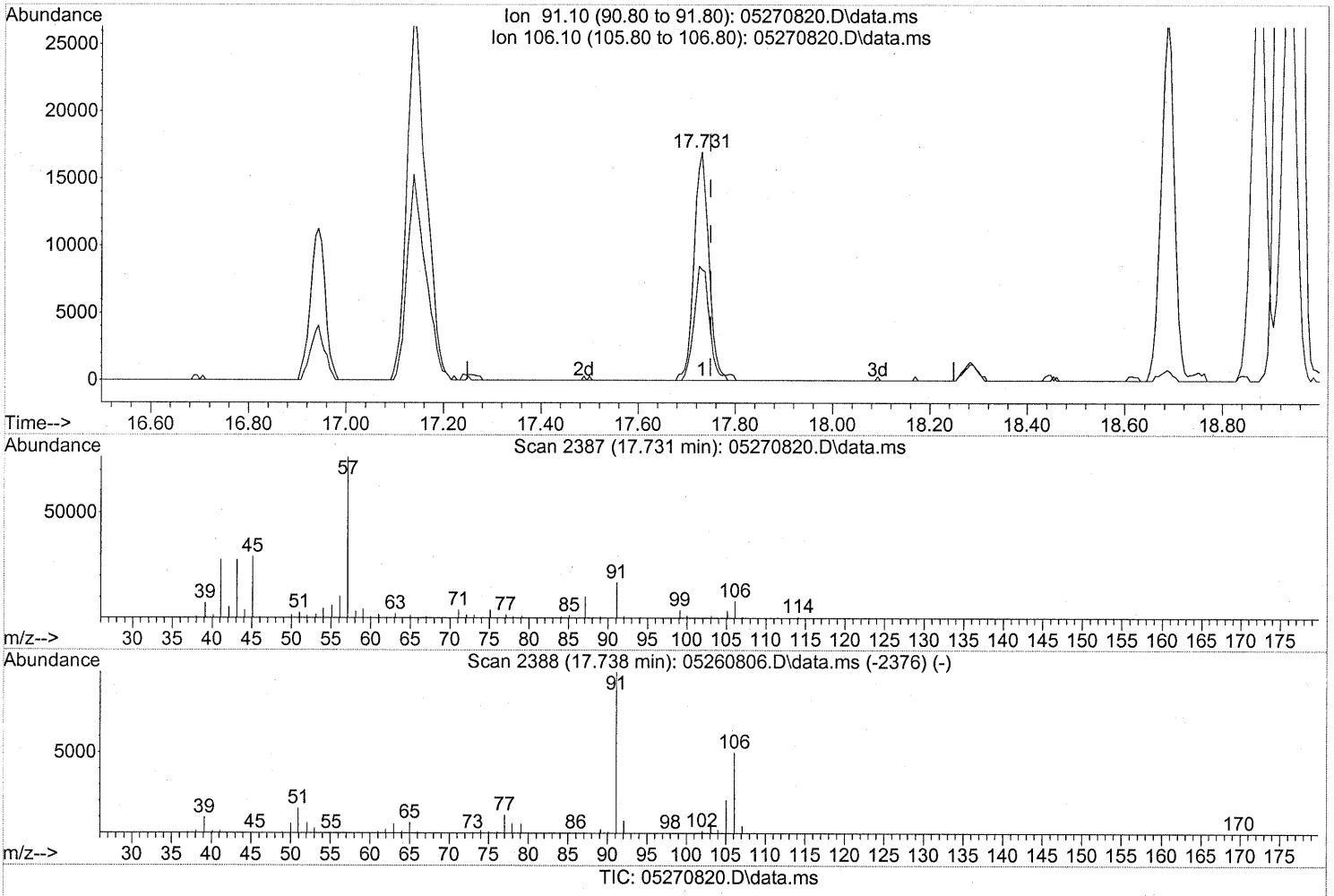
response 11401

Ion	Exp%	Act%
104.10	100	100
78.00	43.30	38.45
103.00	47.60	47.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(70) o-Xylene (T)

17.731min (-0.018) 0.58ng

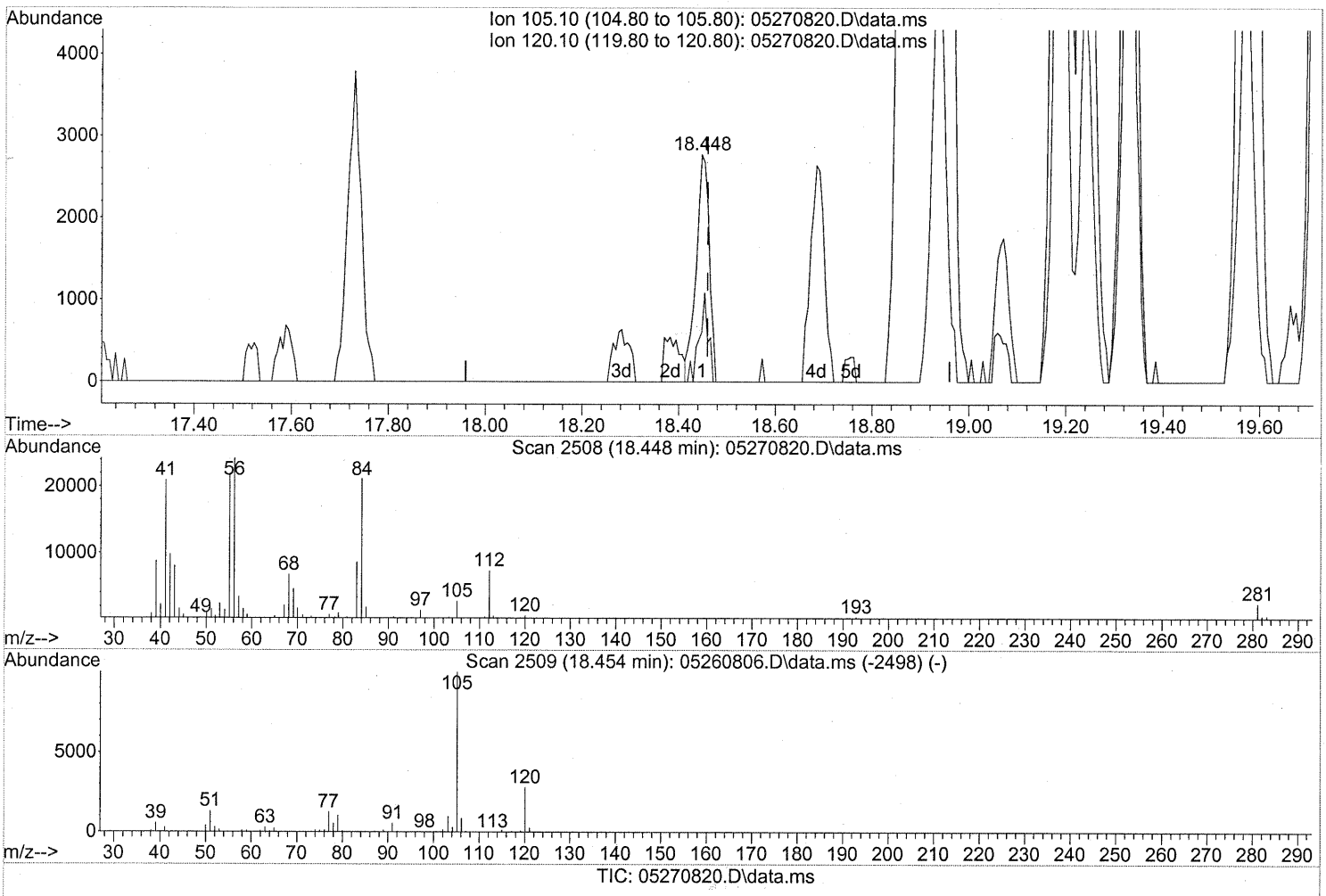
response 36403

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	51.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(74) Cumene (T)

18.448min (-0.012) 0.06ng

response 5232

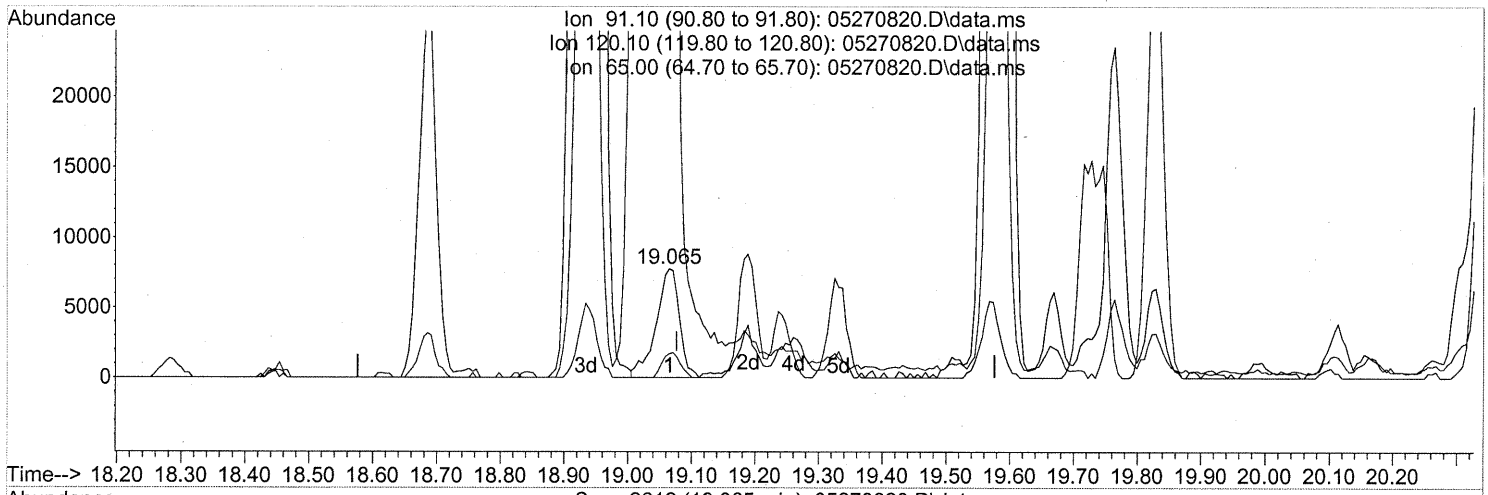
Ion	Exp%	Act%
105.10	100	100
120.10	25.60	26.47
0.00	0.00	0.00
0.00	0.00	0.00

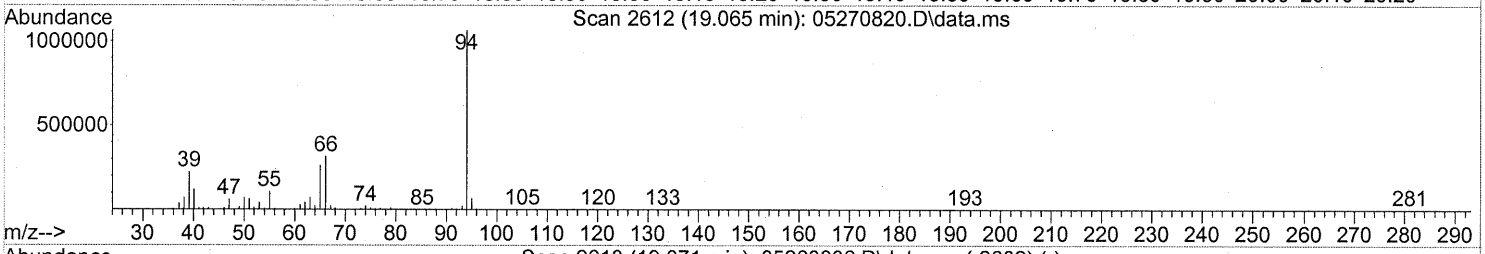
624

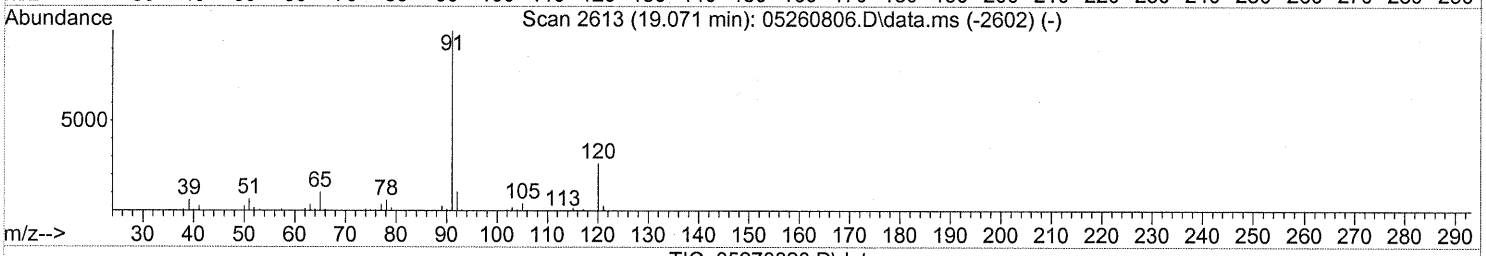
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(76) n-Propylbenzene (T)

19.065min (-0.012) 0.18ng

response 19538

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	17.43
65.00	10.40	0.00
0.00	0.00	0.00

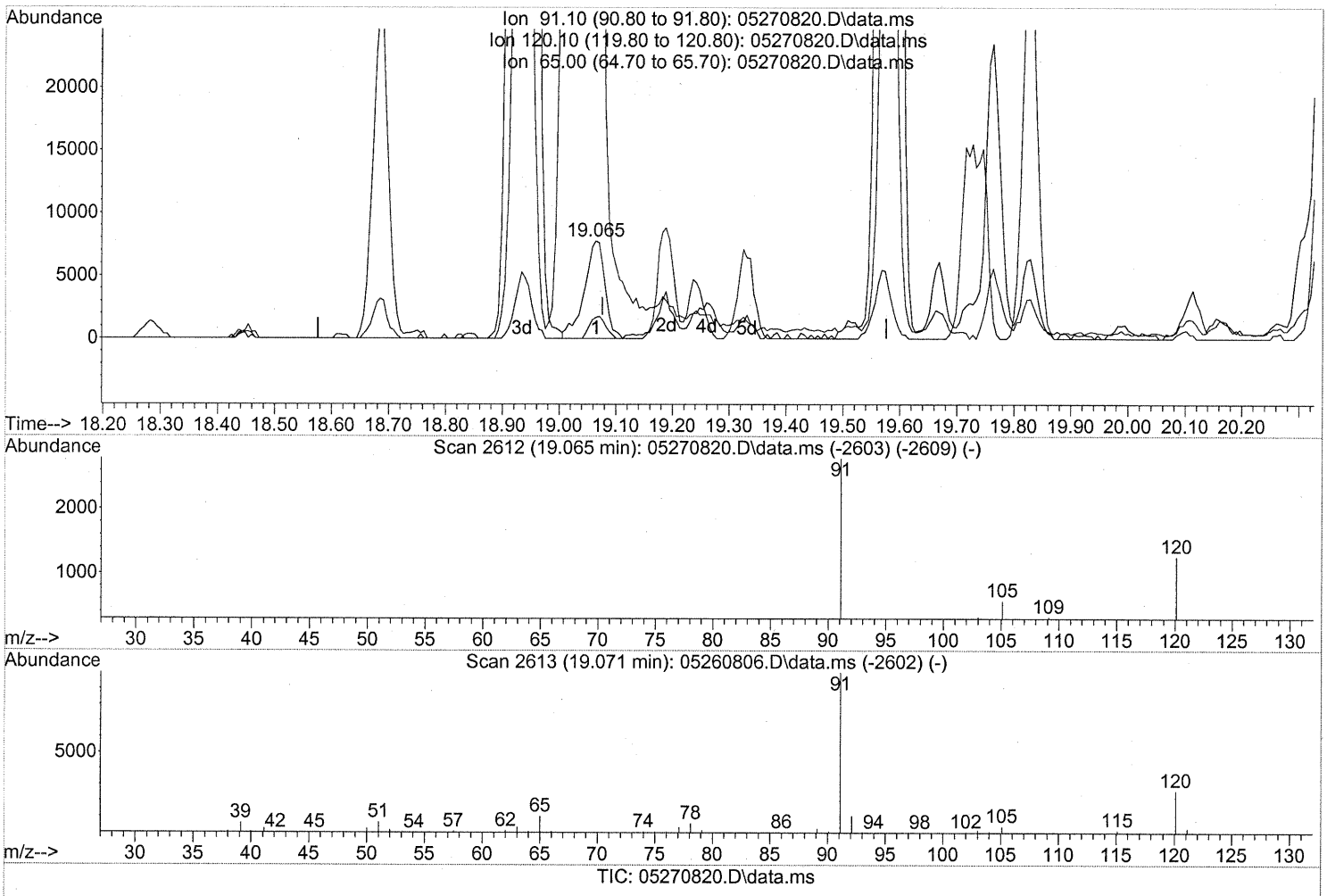
before

625

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(76) n-Propylbenzene (T)

19.065min (-0.012) 0.18ng

response 19538

Ion	Exp%	Act%
91.10	100	100
120.10	21.00	17.43
65.00	10.40	0.00
0.00	0.00	0.00

after subtr.

JSH 6/4/08

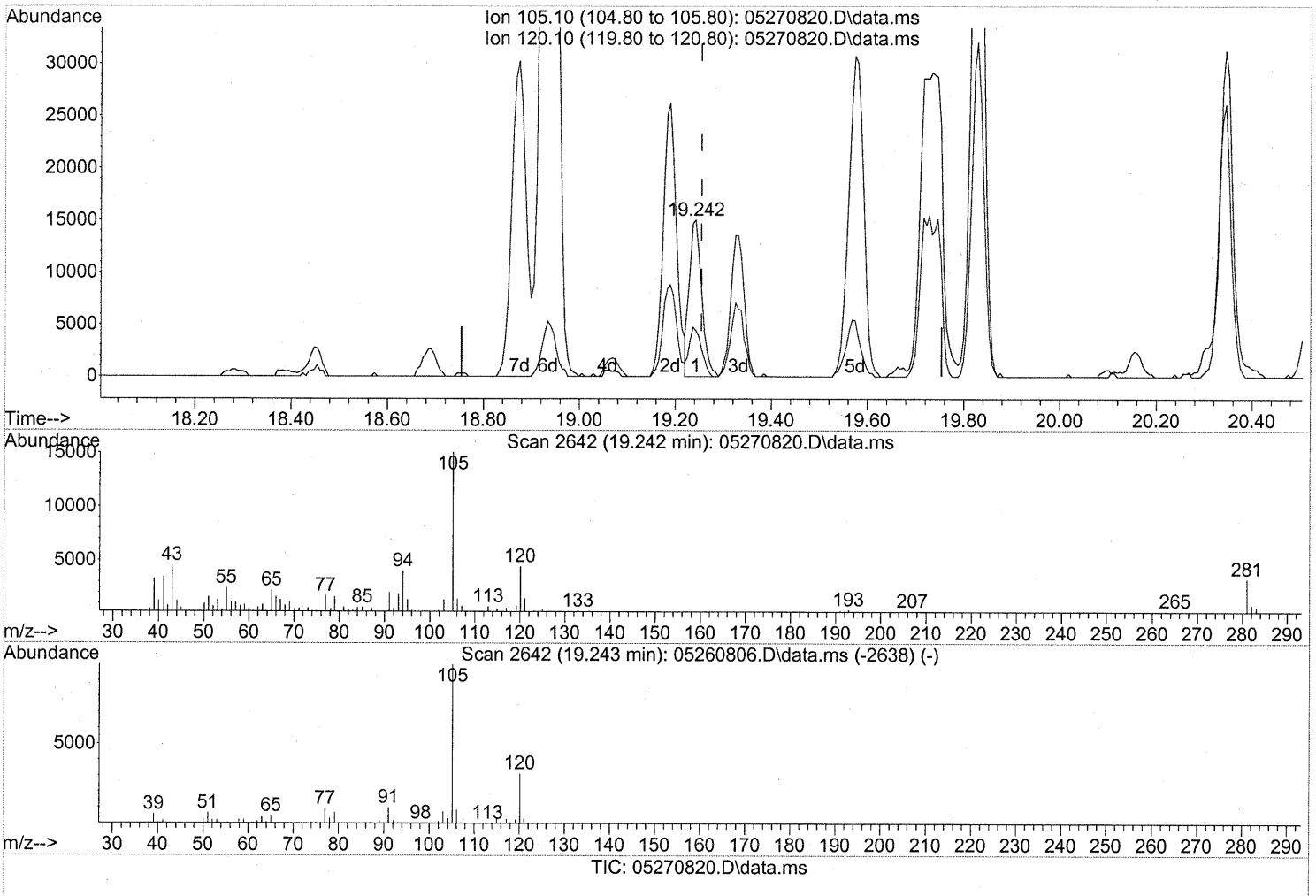
6/4/08

626

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(78) 4-Ethyltoluene (T)

19.242min (-0.012) 0.30ng

response 26922

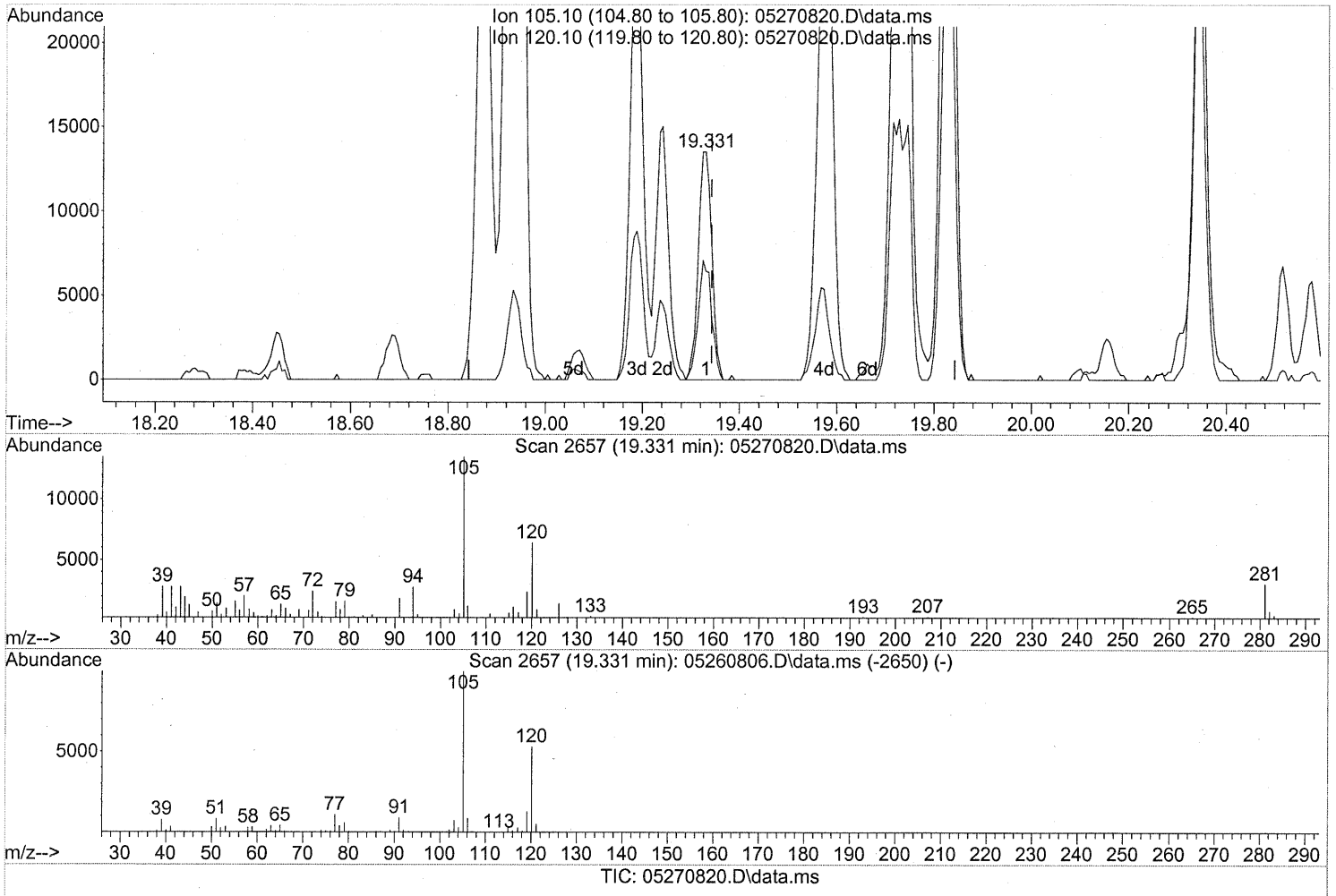
Ion	Exp%	Act%
105.10	100	100
120.10	28.60	31.32
0.00	0.00	0.00
0.00	0.00	0.00

627

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

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

19.331min (-0.012) 0.33ng

response 26318

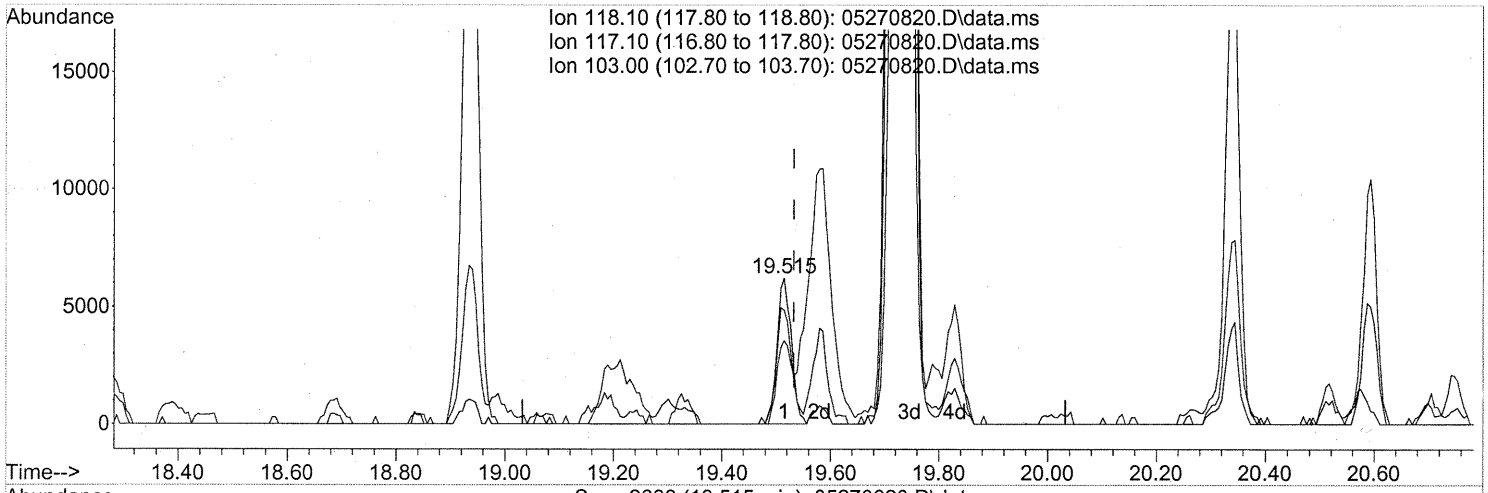
Ion	Exp%	Act%
105.10	100	100
120.10	47.30	51.92
0.00	0.00	0.00
0.00	0.00	0.00

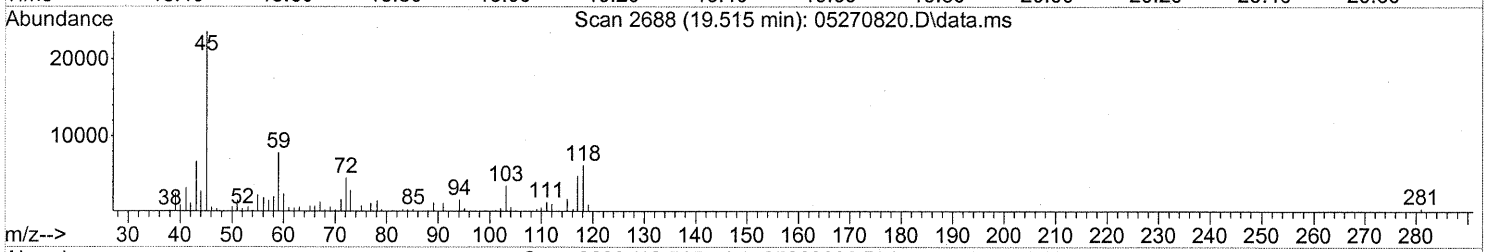
628

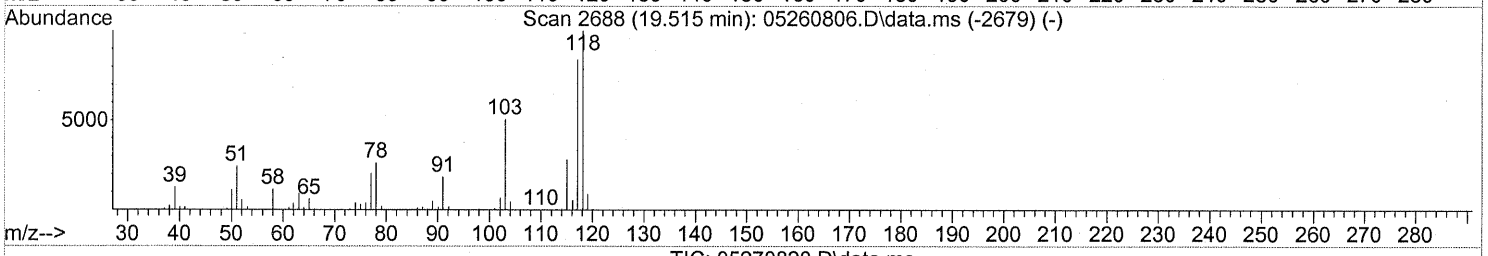
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(80) alpha-Methylstyrene (T)

19.515min (-0.018) 0.25ng

response 11391

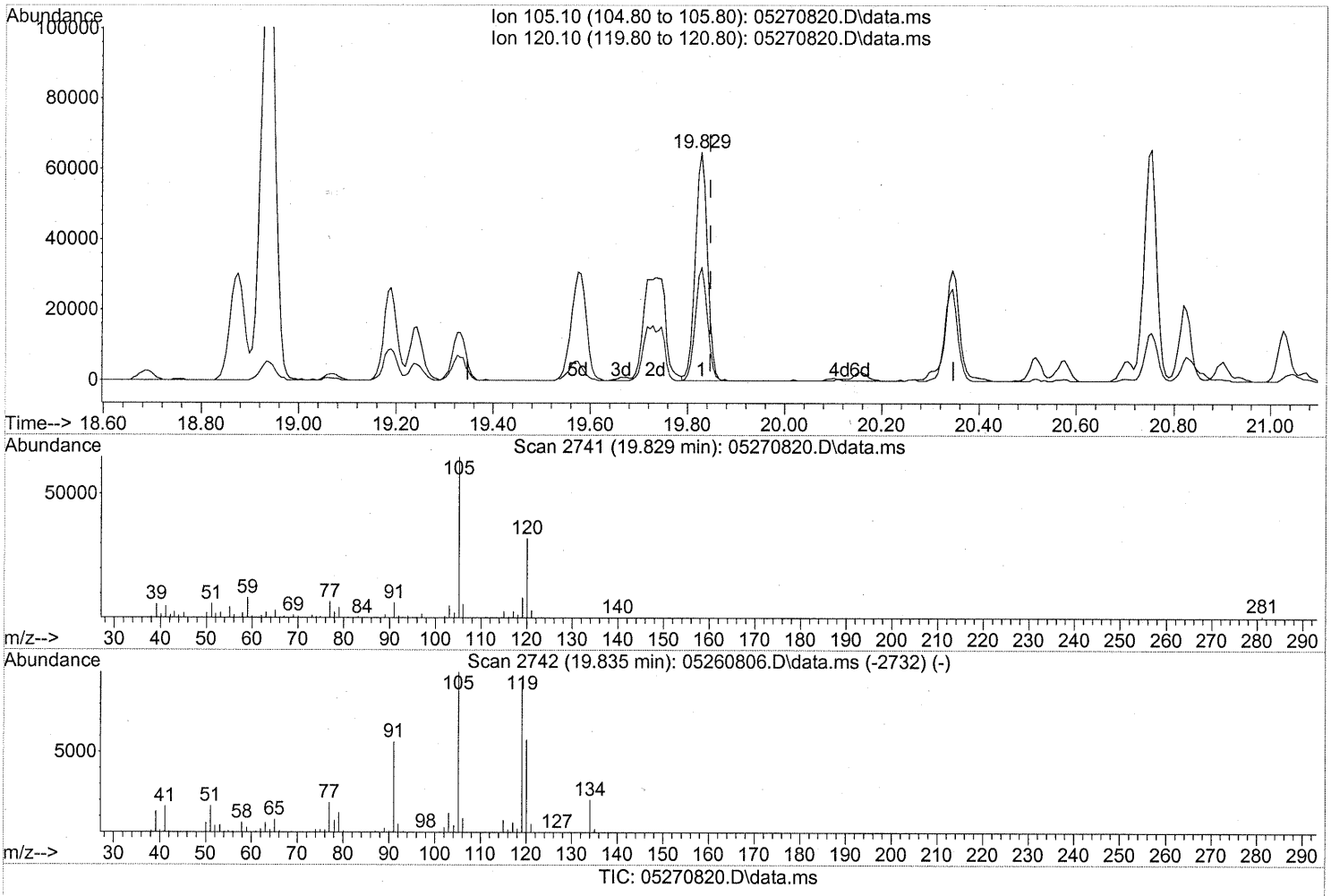
Ion	Exp%	Act%
118.10	100	100
117.10	85.30	86.65
103.00	55.10	59.51
0.00	0.00	0.00

629

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

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

19.829min (-0.018) 1.40ng

response 114126

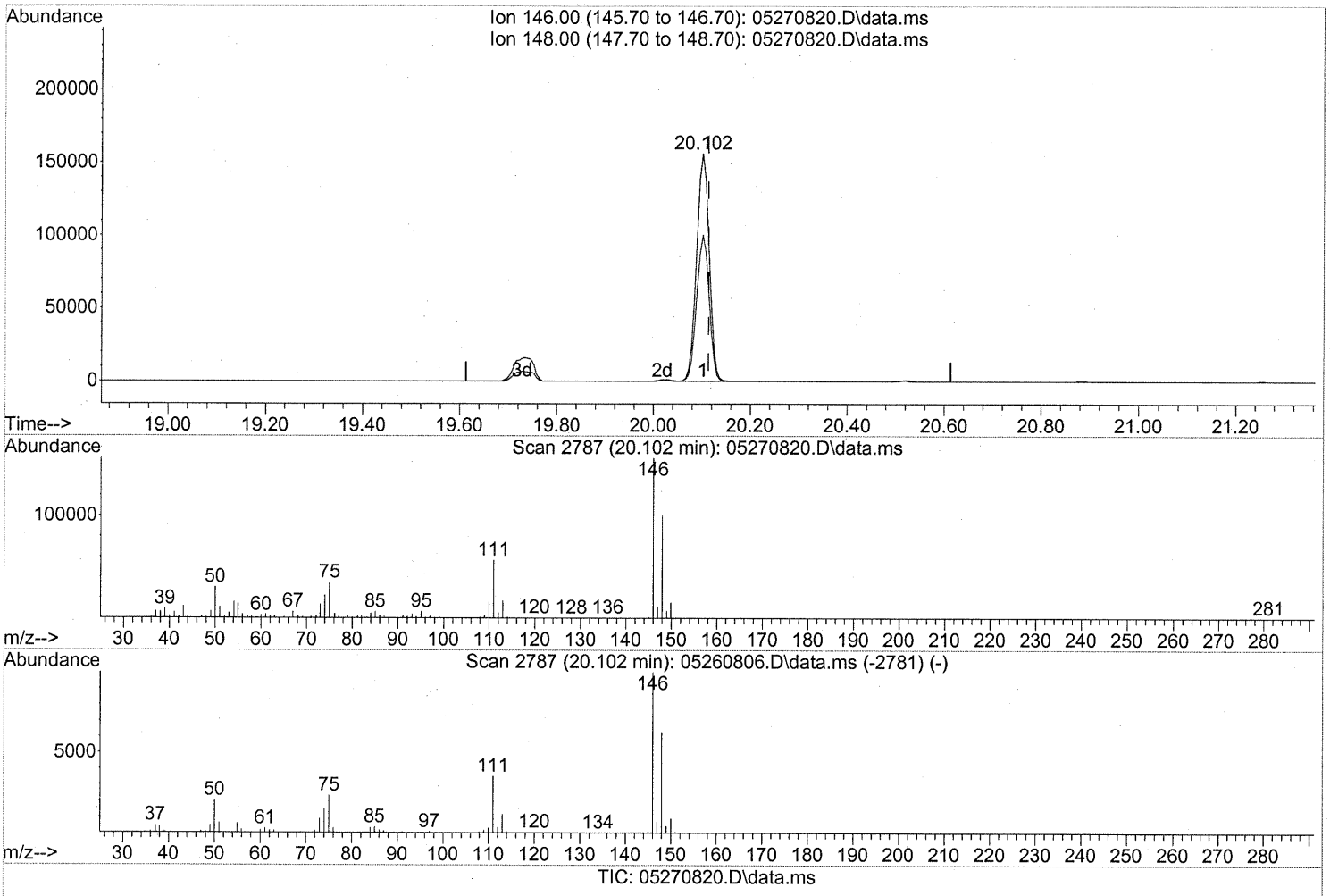
Ion	Exp%	Act%
105.10	100	100
120.10	51.70	49.20
0.00	0.00	0.00
0.00	0.00	0.00

630

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(86) 1,4-Dichlorobenzene (T)

20.102min (-0.012) 5.64ng

response 281902

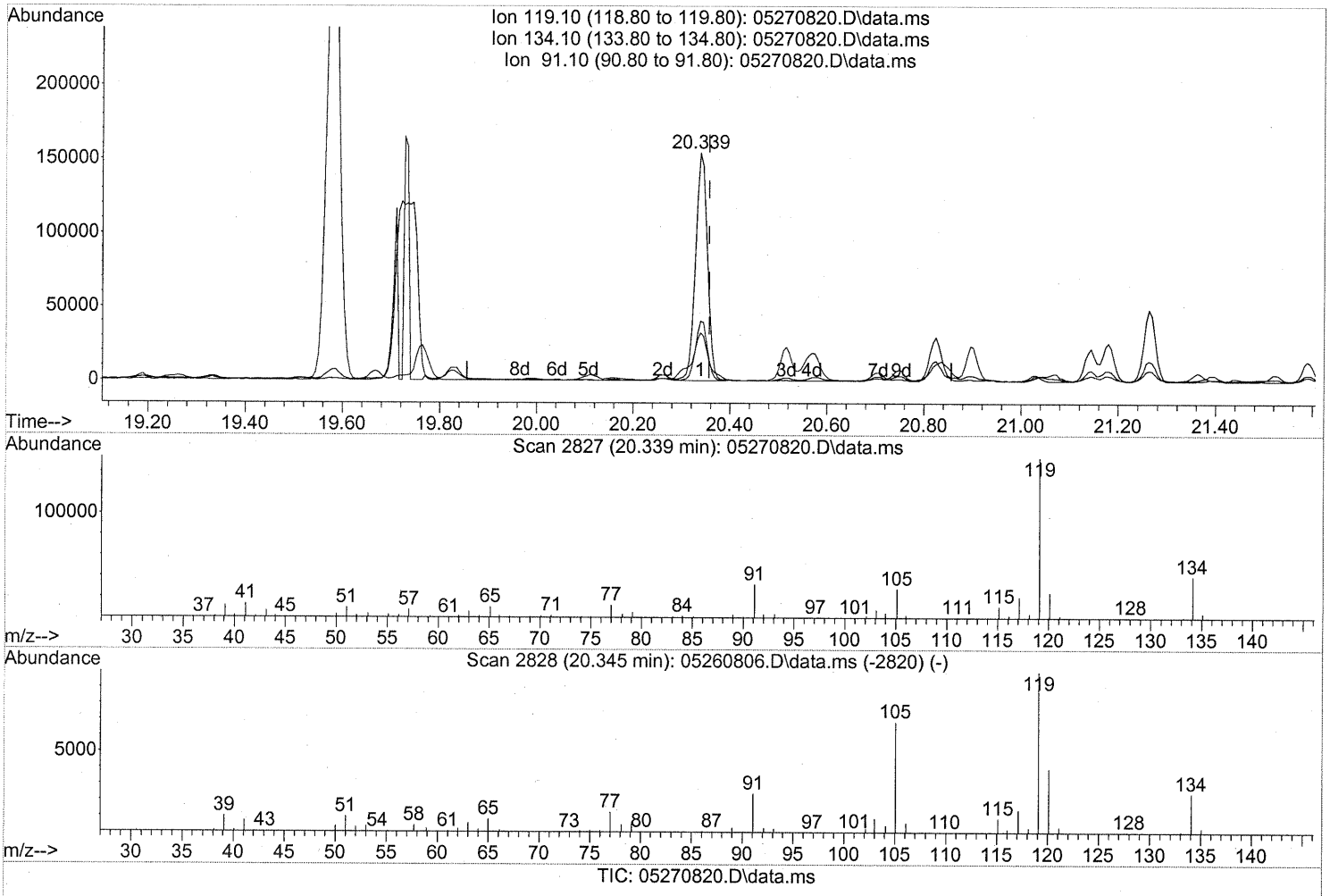
Ion	Exp%	Act%
146.00	100	100
148.00	62.70	63.64
0.00	0.00	0.00
0.00	0.00	0.00

631

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(88) p-Isopropyltoluene (T)

20.339min (-0.018) 2.85ng

response 262790

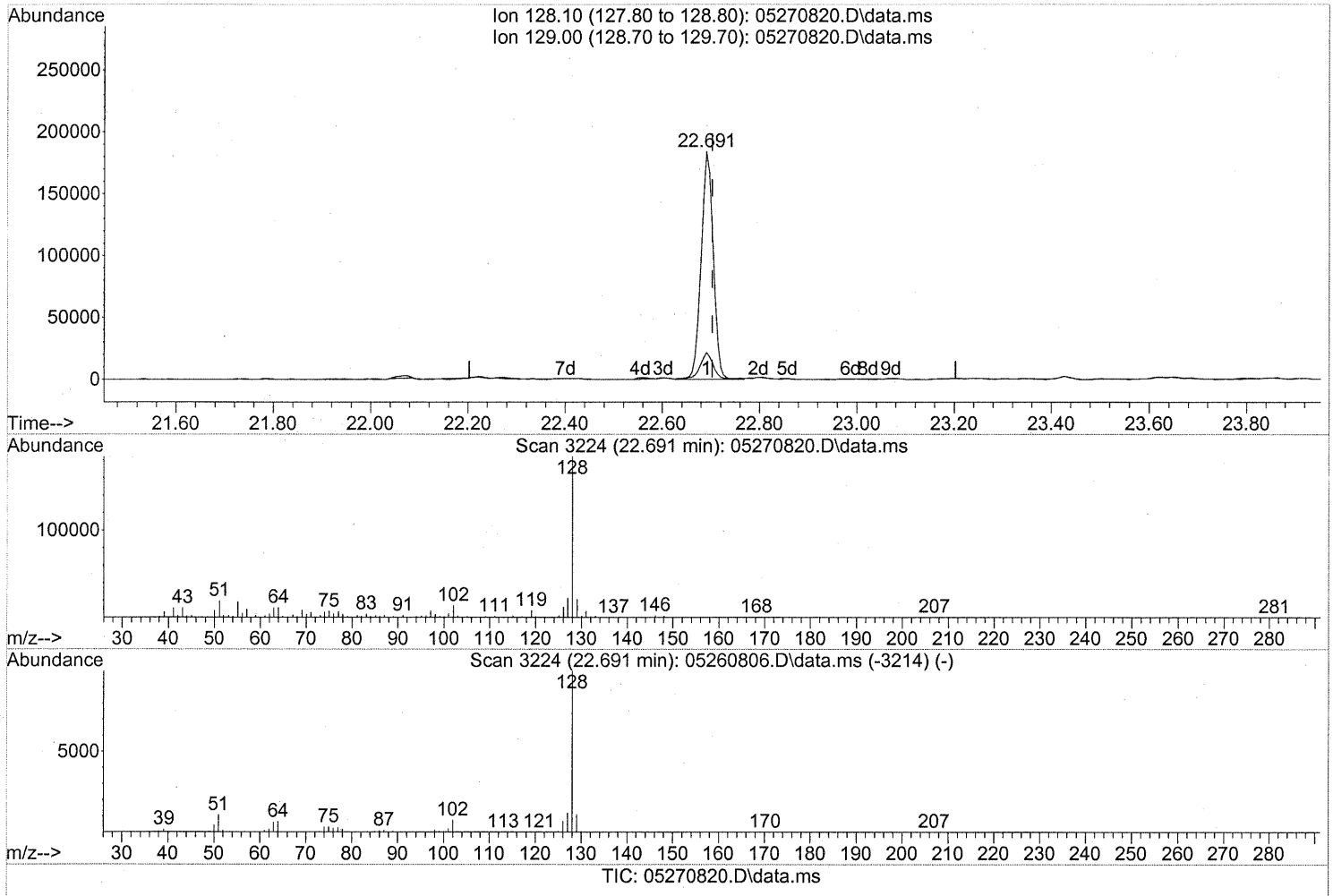
Ion	Exp%	Act%
119.10	100	100
134.10	23.00	26.05
91.10	30.60	29.28
0.00	0.00	0.00

632

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 28 04:48:18 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270820.D\data.ms

(95) Naphthalene (T)

22.691min (-0.012) 2.70ng

response 319255

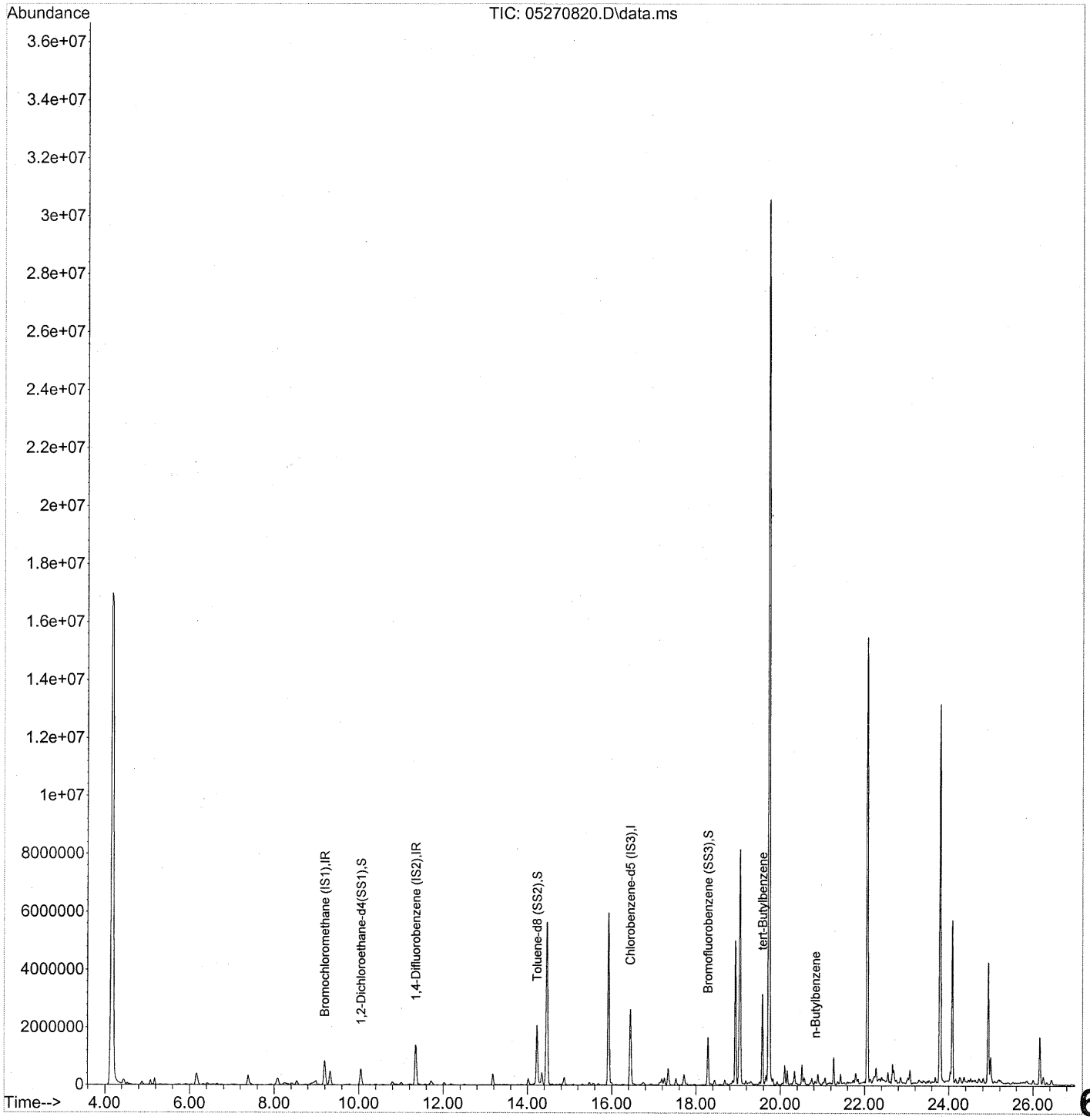
Ion	Exp%	Act%
128.10	100	100
129.00	10.40	12.63
0.00	0.00	0.00
0.00	0.00	0.00

633

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 14:39:37 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 14:39:37 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	389303	25.000	ng		-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1623961	25.000	ng		-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	666312	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.05	65	546780	24.563	ng		-0.04
Spiked Amount 25.000			Recovery = 98.24%				
5) Toluene-d8 (SS2)	14.23	98	1659883	24.163	ng		-0.02
Spiked Amount 25.000			Recovery = 96.64%				
6) Bromofluorobenzene (SS3)	18.29	174	593715	25.995	ng		0.00
Spiked Amount 25.000			Recovery = 104.00%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.58	119	13028	~~0.157~~	ng	NR	93
8) n-Butylbenzene	20.84	91	34838	0.441	ng	#	44

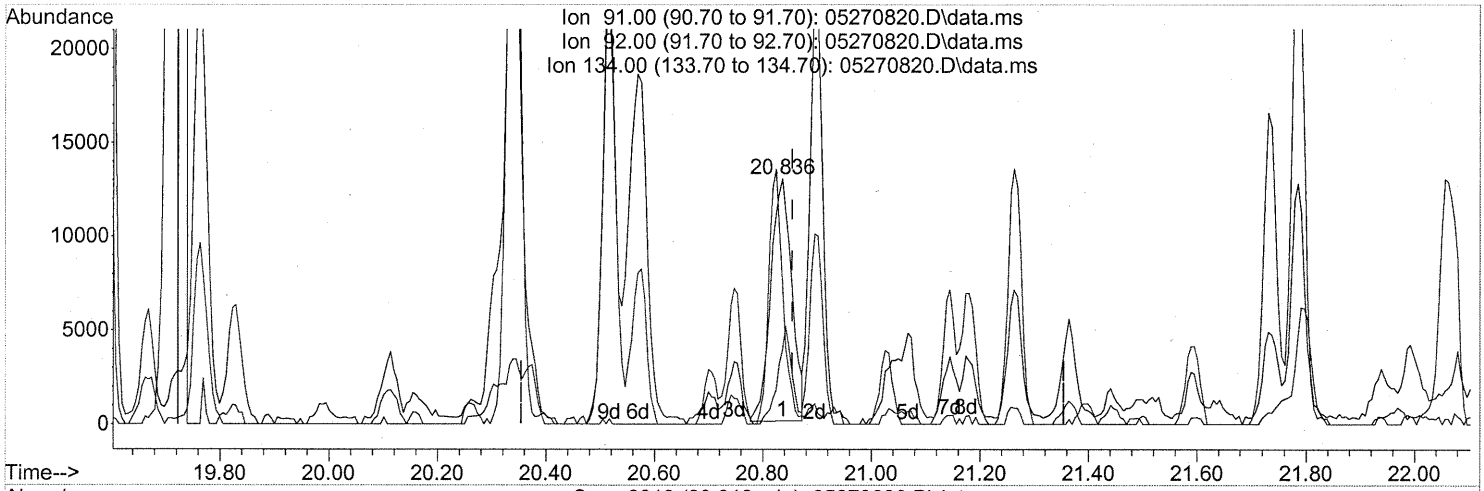
(#) = qualifier out of range (m) = manual integration (+) = signals summed

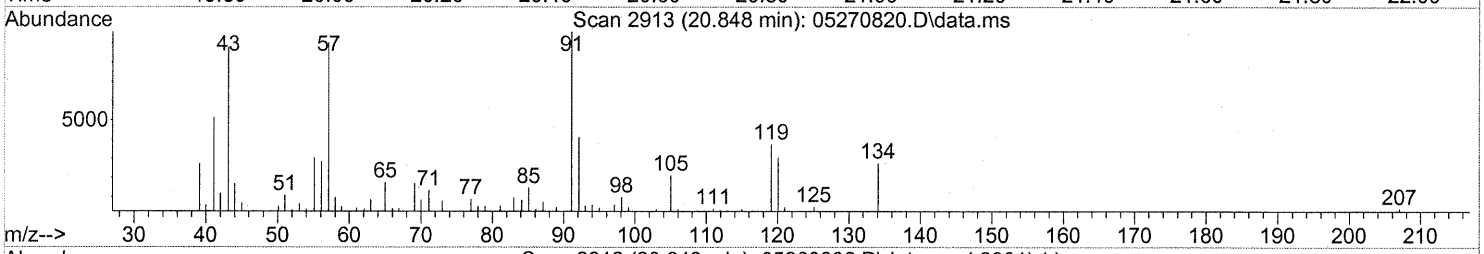
635

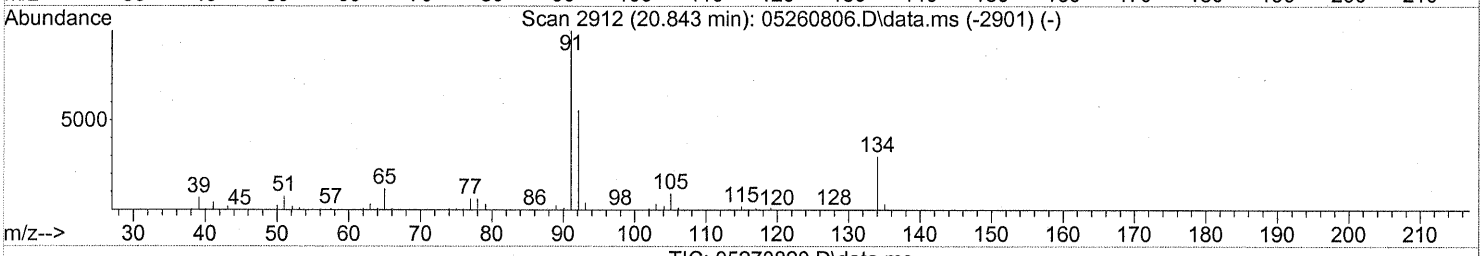
6/4/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270820.D
Acq On : 28 May 2008 1:01
Operator : WA
Sample : P0801507-015 (1000ml)
Misc : ENSR SG06B-05 (-2.9, 3.5)
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 04 14:39:37 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration







TIC: 05270820.D\data.ms

(8) n-Butylbenzene

20.836min (-0.018) 0.44ng

response 34838

Ion	Exp%	Act%
91.00	100	100
92.00	53.60	27.32#
134.00	23.40	72.40#
0.00	0.00	0.00

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080527-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.082**	5.0	0.050	**0.044**	2.7	0.027	**J**
67-64-1	**Acetone**	**1.0**	5.0	0.073	**0.42**	2.1	0.031	**J**
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**	**0.076**	0.50	0.050	**0.022**	0.14	0.014	**J**
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**	**0.26**	5.0	0.16	**0.074**	1.4	0.045	**J**
78-93-3	**2-Butanone (MEK)**	**0.072**	0.50	0.050	**0.024**	0.17	0.017	**J**
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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR**
Client Sample ID: **Method Blank** CAS Project ID: P0801507
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080527-MB

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/27/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: 1.00 Liter(s)
Test Notes:

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.059**	0.10	0.050	**0.018**	0.031	0.016	**J**
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.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080527-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

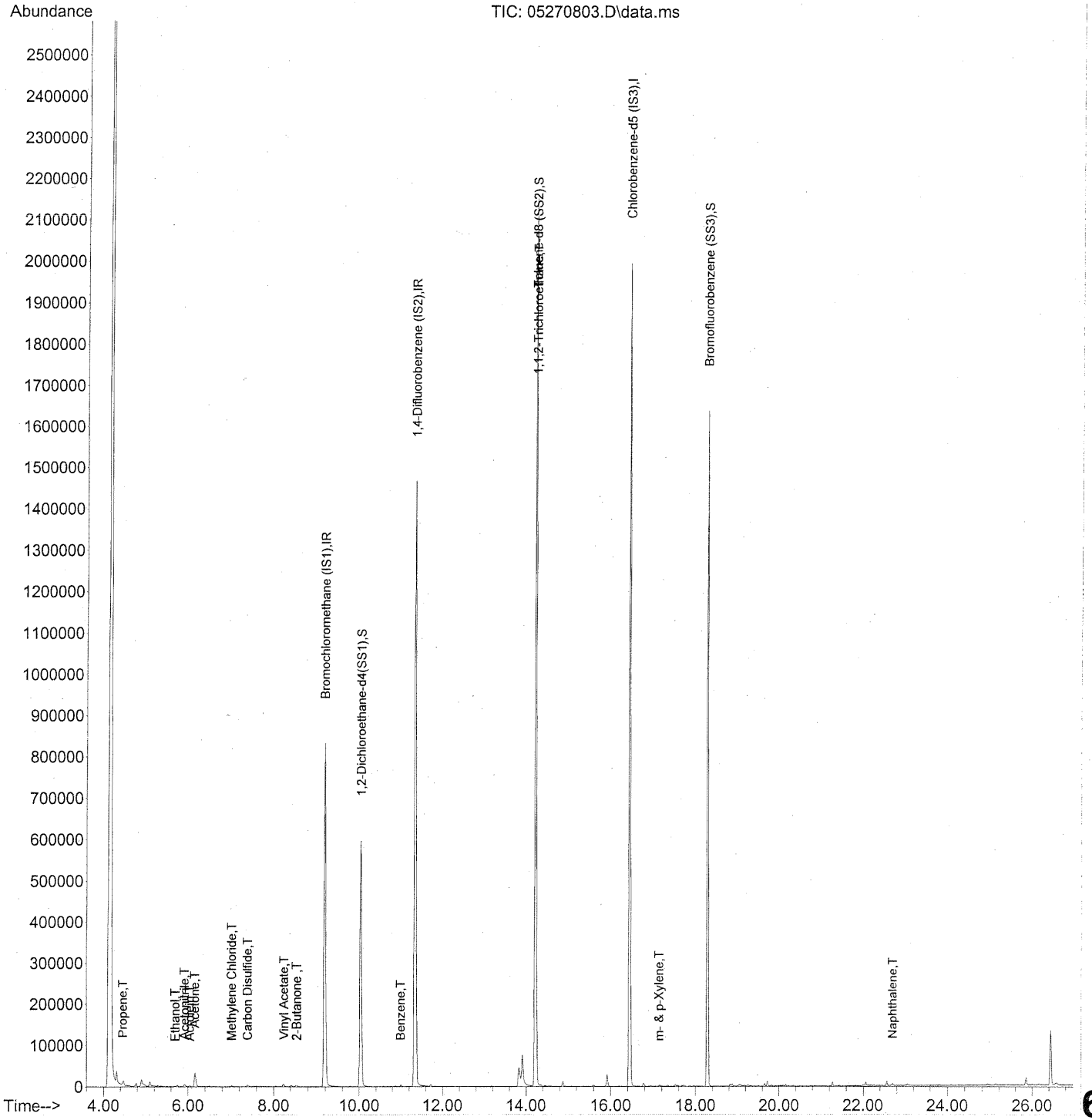
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	411633	25.000 ng	-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1710469	25.000 ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	681215	25.000 ng	-0.02
System Monitoring Compounds					
33) 1,2-Dichloroethane-d4(...	10.04	65	569346	24.189 ng	-0.05
Spiked Amount 25.000			Recovery =	96.76%	
57) Toluene-d8 (SS2)	14.22	98	1724695	24.558 ng	-0.02
Spiked Amount 25.000			Recovery =	98.24%	
73) Bromofluorobenzene (SS3)	18.28	174	599836	25.689 ng	-0.01
Spiked Amount 25.000			Recovery =	102.76%	
Target Compounds					Qvalue
2) Propene	4.45	42	2750	0.086 ng #	73
3) Dichlorodifluoromethane	4.55	85	1035	N.D.	
4) Chloromethane	4.76	50	357	N.D.	
5) Freon 114	0.00	135	0	N.D.	
6) Vinyl Chloride	4.99	62	199	N.D.	
7) 1,3-Butadiene	5.13	54	294	N.D.	
8) Bromomethane	5.41	94	104	N.D.	
9) Chloroethane	0.00	64	0	N.D.	
10) Ethanol	5.70	45	1780	0.082 ng #	49
11) Acetonitrile	5.92	41	8050	0.129 ng #	47
12) Acrolein	6.04	56	2905	0.186 ng	97
13) Acetone	6.16	58	21586	1.004 ng #	53
14) Trichlorofluoromethane	6.32	101	209	N.D.	
15) Isopropanol	6.38	45	1235	N.D.	
16) Acrylonitrile	6.61	53	935	N.D.	
17) 1,1-Dichloroethene	0.00	96	0	N.D.	
18) tert-Butanol	6.96	59	385	N.D.	
19) Methylene Chloride	7.02	84	1261	0.076 ng #	47
20) Allyl Chloride	7.15	41	414	N.D.	
21) Trichlorotrifluoroethane	0.00	151	0	N.D.	
22) Carbon Disulfide	7.40	76	6363	0.095 ng < MDL	81
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	8.20	73	214	N.D.	
26) Vinyl Acetate	8.24	86	914	0.259 ng #	67
27) 2-Butanone	8.54	72	810	0.072 ng < MDL	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.	
29) Diisopropyl Ether	0.00	87	0	N.D.	
30) Ethyl Acetate	0.00	61	0	N.D.	
31) n-Hexane	9.23	57	900	N.D.	

yes OK
m 6/5/08

641

5/28/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	0.00	62	0	N.D.	
38) 1,1,1-Trichloroethane	10.47	97	96	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	10.79	56	135	N.D.	
41) Benzene	10.99	78	4237	0.059 ng	94
42) Carbon Tetrachloride	11.17	117	305	N.D.	
43) Cyclohexane	11.34	84	1277	N.D.	
44) tert-Amyl Methyl Ether	11.64	73	214	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	12.23	57	1913	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	14.24	97	145411	~~8.290 ng~~ UR #	7
58) Toluene	14.34	91	2920	N.D.	
59) 2-Hexanone	14.58	43	2295	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	15.14	107	119	N.D.	
62) Butyl Acetate	15.31	43	1334	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	16.50	112	1023	N.D.	
66) Ethylbenzene	16.93	91	1625	N.D.	
67) m- & p-Xylene	17.13	91	3506	~~0.058 ng~~	99
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	17.58	104	1465	N.D.	
70) o-Xylene	17.73	91	1532	N.D.	
71) n-Nonane	17.97	43	1026	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	18.44	105	1648	N.D.	
75) alpha-Pinene	18.93	93	195	N.D.	
76) n-Propylbenzene	19.06	91	1827	N.D.	
77) 3-Ethyltoluene	19.19	105	2364	N.D.	
78) 4-Ethyltoluene	19.24	105	1785	N.D.	
79) 1,3,5-Trimethylbenzene	19.33	105	1215	N.D.	

642

5/28/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

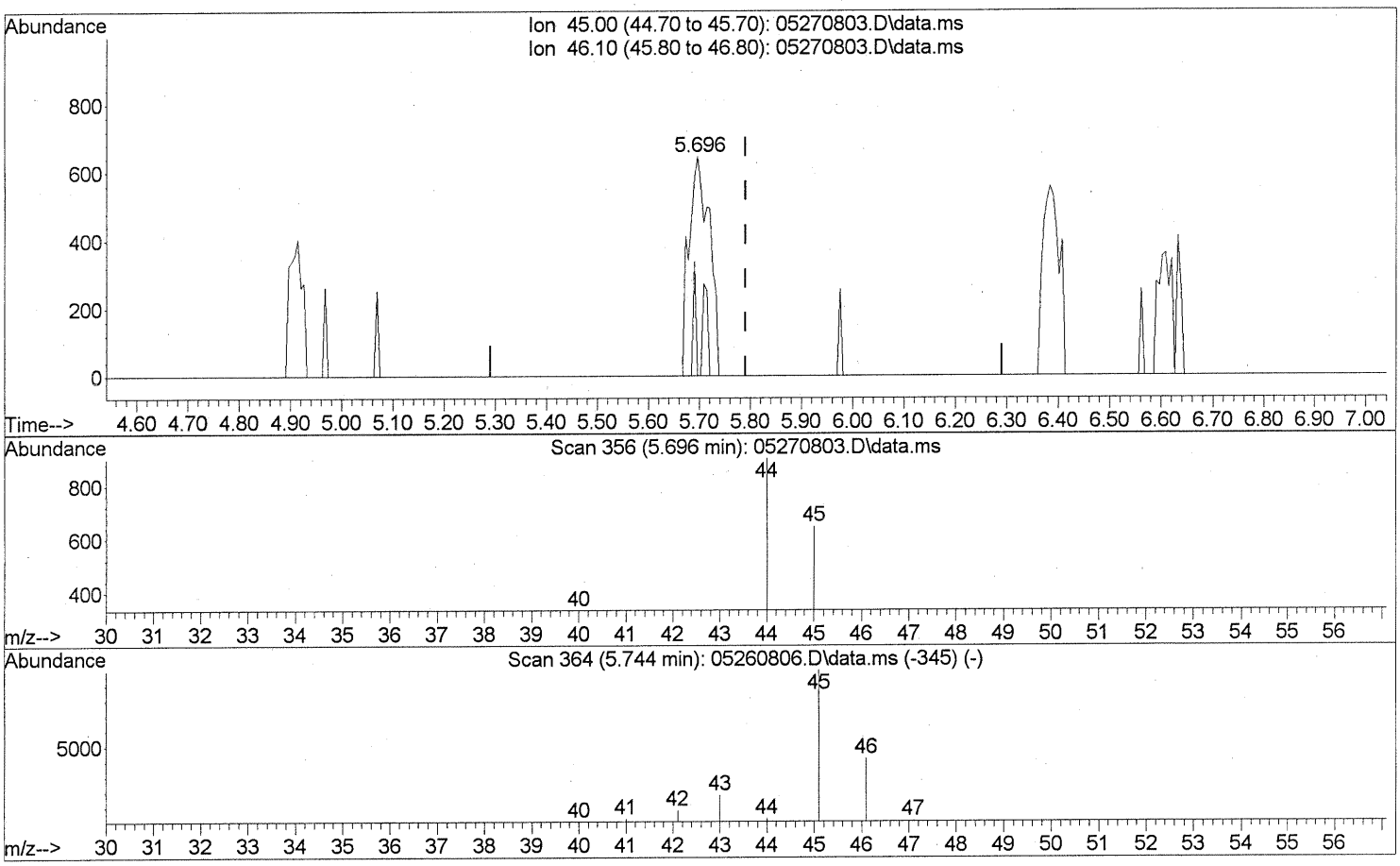
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.52	118	393	N.D.	
81) 2-Ethyltoluene	19.57	105	1613	N.D.	
82) 1,2,4-Trimethylbenzene	19.82	105	1472	N.D.	
83) n-Decane	19.92	57	610	N.D.	
84) Benzyl Chloride	19.99	91	1726	N.D.	
85) 1,3-Dichlorobenzene	20.02	146	1181	N.D.	
86) 1,4-Dichlorobenzene	20.10	146	1456	N.D.	
87) sec-Butylbenzene	20.16	105	1063	N.D.	
88) p-Isopropyltoluene	20.34	119	1334	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	1196	N.D.	
90) 1,2-Dichlorobenzene	20.52	146	1115	N.D.	
91) d-Limonene	20.50	68	321	N.D.	
92) 1,2-Dibromo-3-Chloropr...	21.03	157	99	N.D.	
93) n-Undecane	21.43	57	644	N.D.	
94) 1,2,4-Trichlorobenzene	22.55	184	104	N.D.	
95) Naphthalene	22.69	128	6372	~~0.053 ng~~	89
96) n-Dodecane	22.66	57	807	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:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270803.D\data.ms

(10) Ethanol (T)

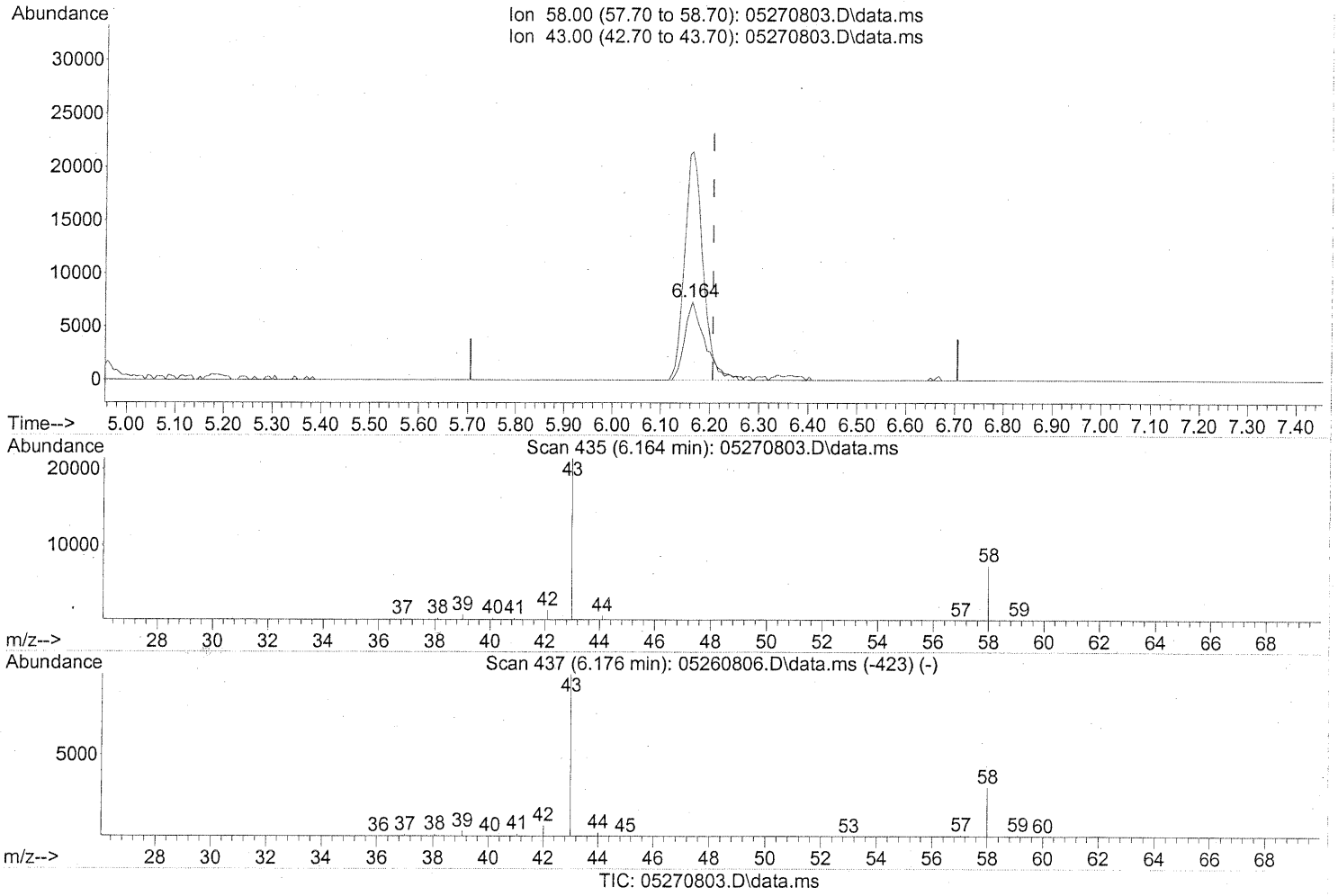
5.696min (-0.095) 0.08ng

response 1780

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	6.74#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270803.D\data.ms

(13) Acetone (T)

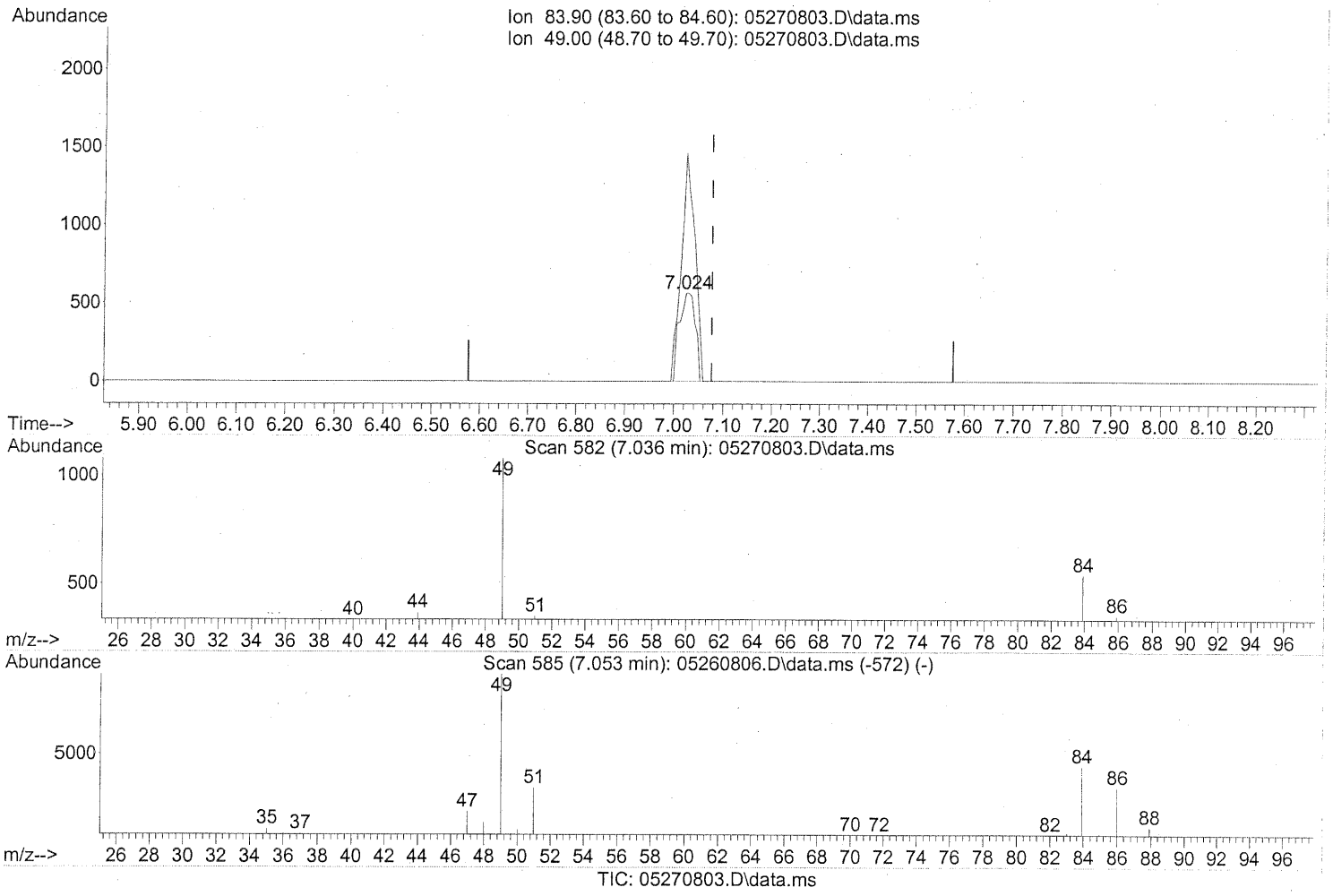
6.164min (-0.042) 1.00ng

response 21586

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	262.11#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270803.D\data.ms

(19) Methylene Chloride (T)

7.024min (-0.053) 0.08ng

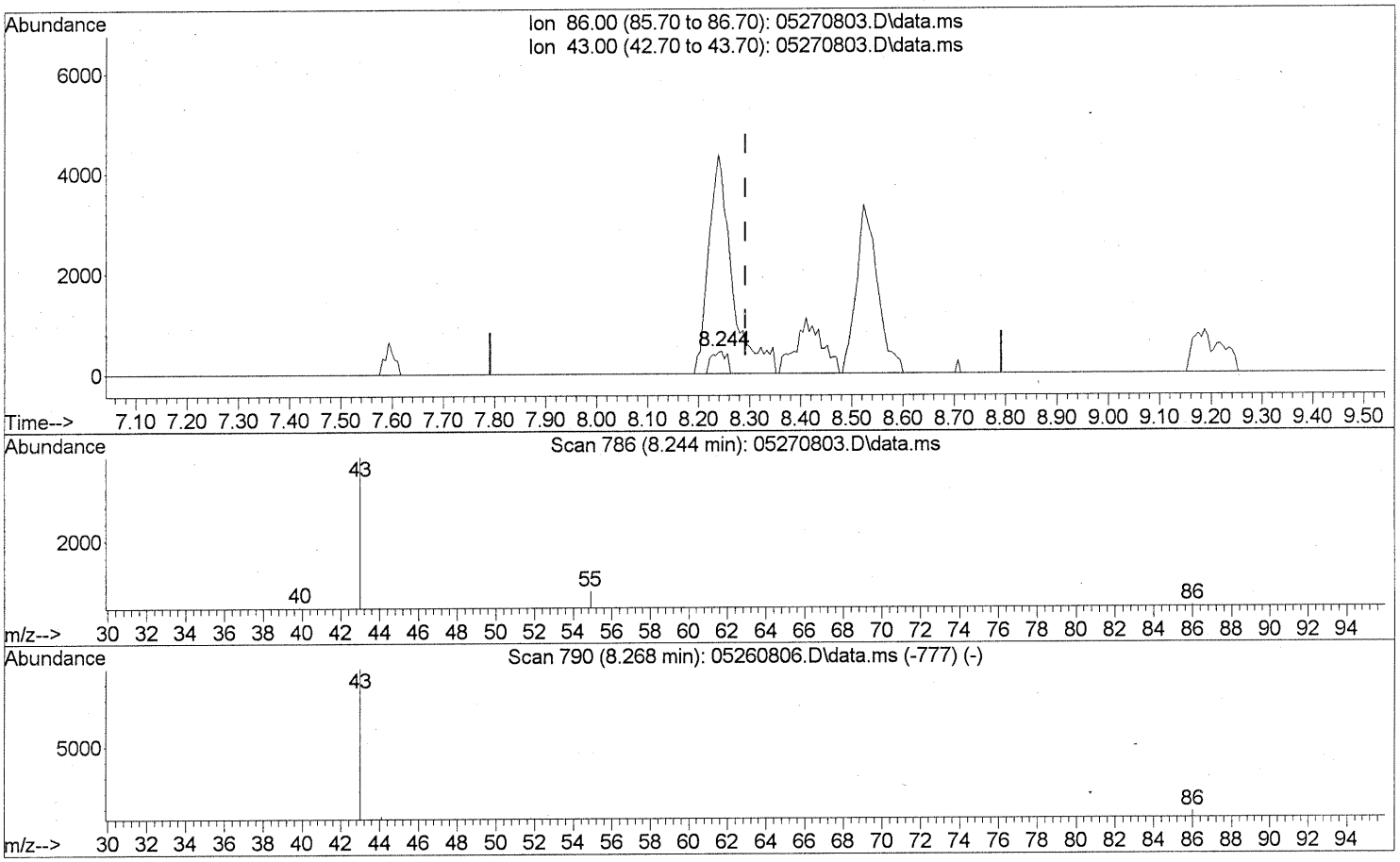
response 1261

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	224.82#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270803.D\data.ms

(26) Vinyl Acetate (T)

8.244min (-0.048) 0.26ng

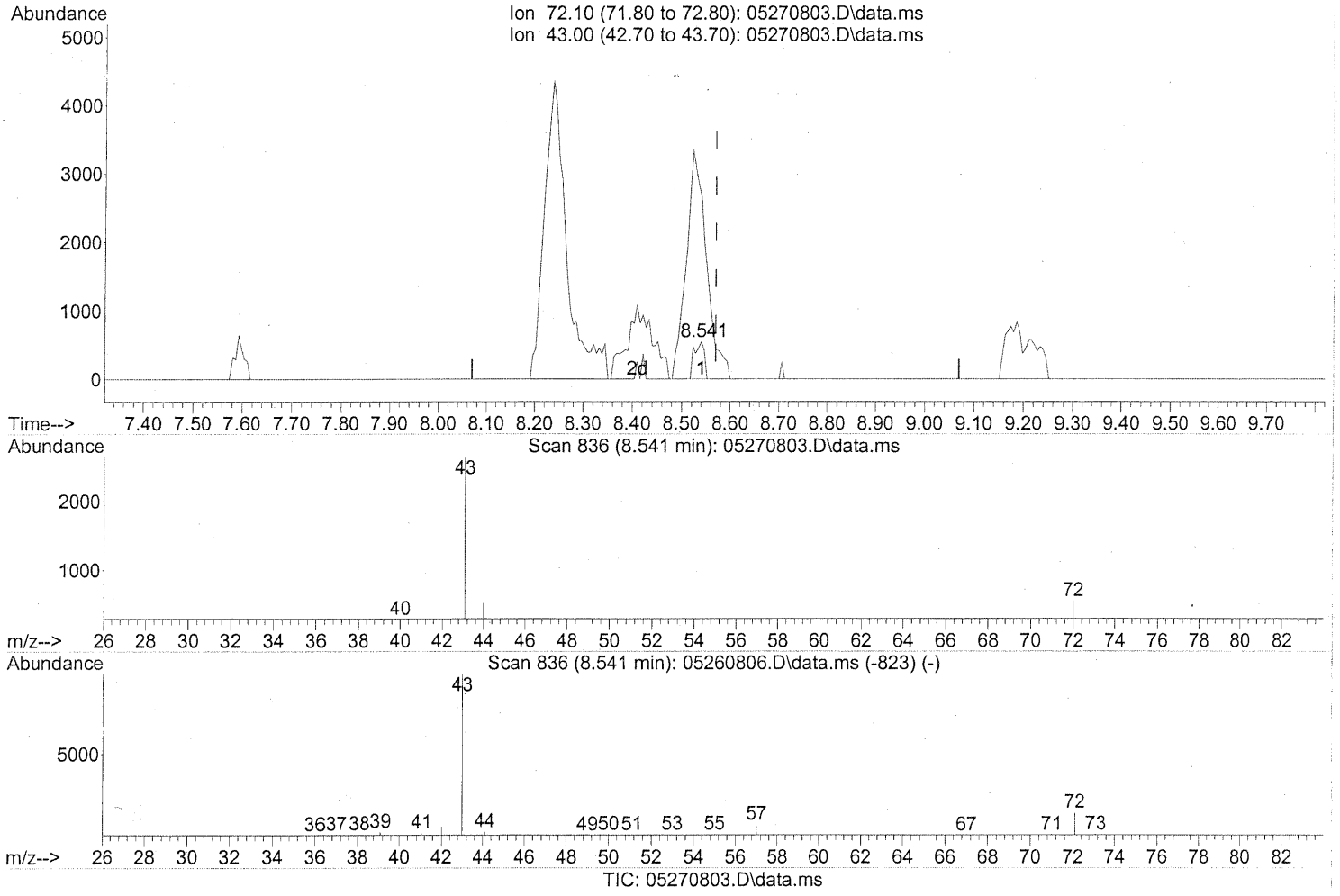
response 914

Ion	Exp%	Act%
86.00	100	100
43.00	1344.50	1527.46#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270803.D\data.ms

(27) 2-Butanone (T)

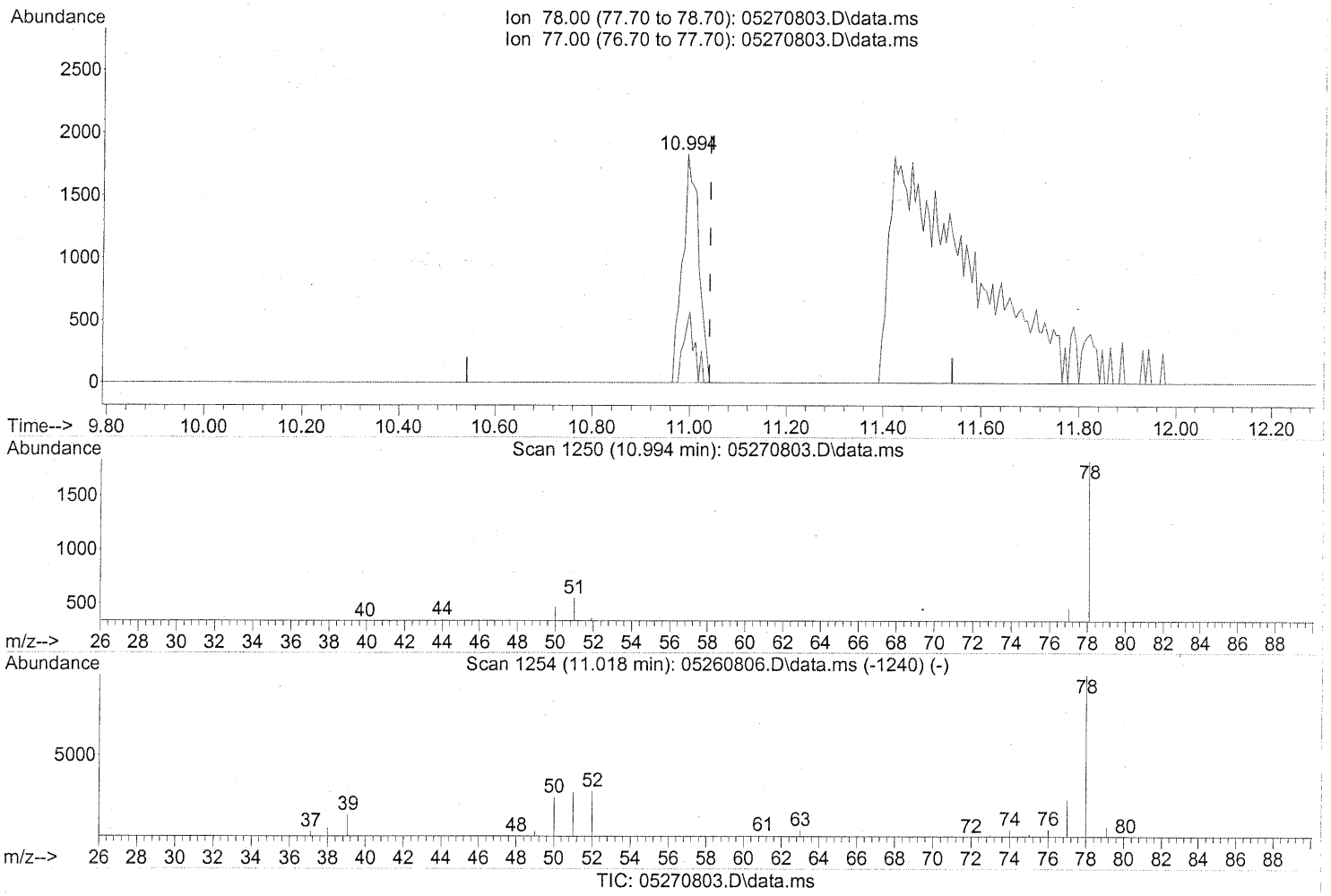
8.541min (-0.030) 0.07ng

response 810

Ion	Exp%	Act%
72.10	100	100
43.00	491.60	1195.43#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 04:46:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

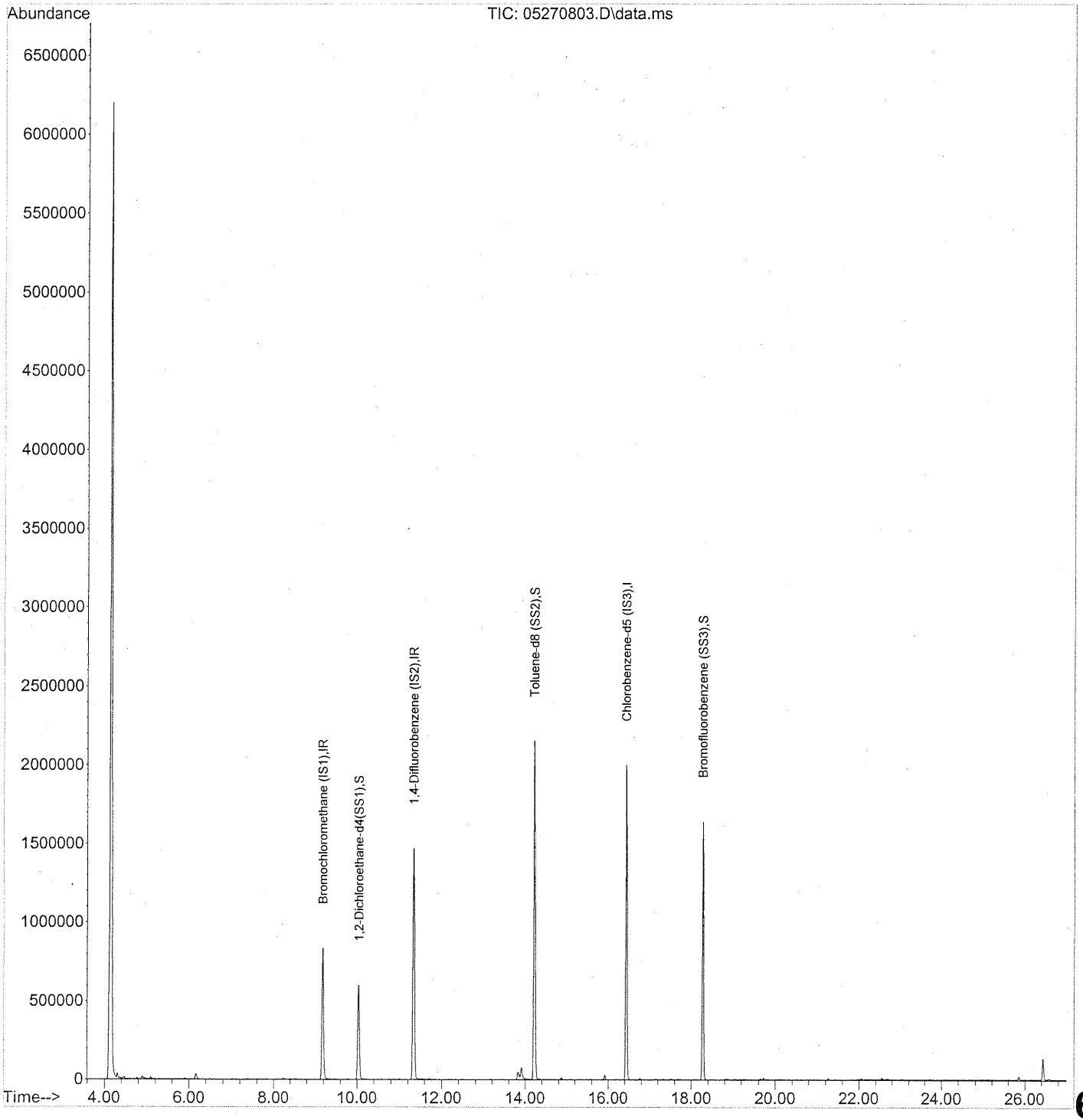
10.994min (-0.047) 0.06ng

response 4237

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	20.60
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:12 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



650

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270803.D
Acq On : 27 May 2008 11:44
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:12 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	411633	25.000	ng	-0.06
3) 1,4-Difluorobenzene (IS2)	11.34	114	1710469	25.000	ng	-0.04
4) Chlorobenzene-d5 (IS3)	16.44	82	681215	25.000	ng	-0.02
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.04	65	569346	24.189	ng	-0.05
Spiked Amount 25.000			Recovery =	96.76%		
5) Toluene-d8 (SS2)	14.22	98	1724695	24.558	ng	-0.02
Spiked Amount 25.000			Recovery =	98.24%		
6) Bromofluorobenzene (SS3)	18.28	174	599836	25.689	ng	-0.01
Spiked Amount 25.000			Recovery =	102.76%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.82	119	1164	N.D.		
8) n-Butylbenzene	20.84	91	1194	N.D.		

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

651

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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	**Acetone**	**0.35**	5.0	0.073	**0.15**	2.1	0.031	**J**
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**	**0.064**	0.50	0.050	**0.018**	0.14	0.014	**J**
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**	**0.090**	0.10	0.059	**0.018**	0.020	0.012	**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: 6/5/08

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080528-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

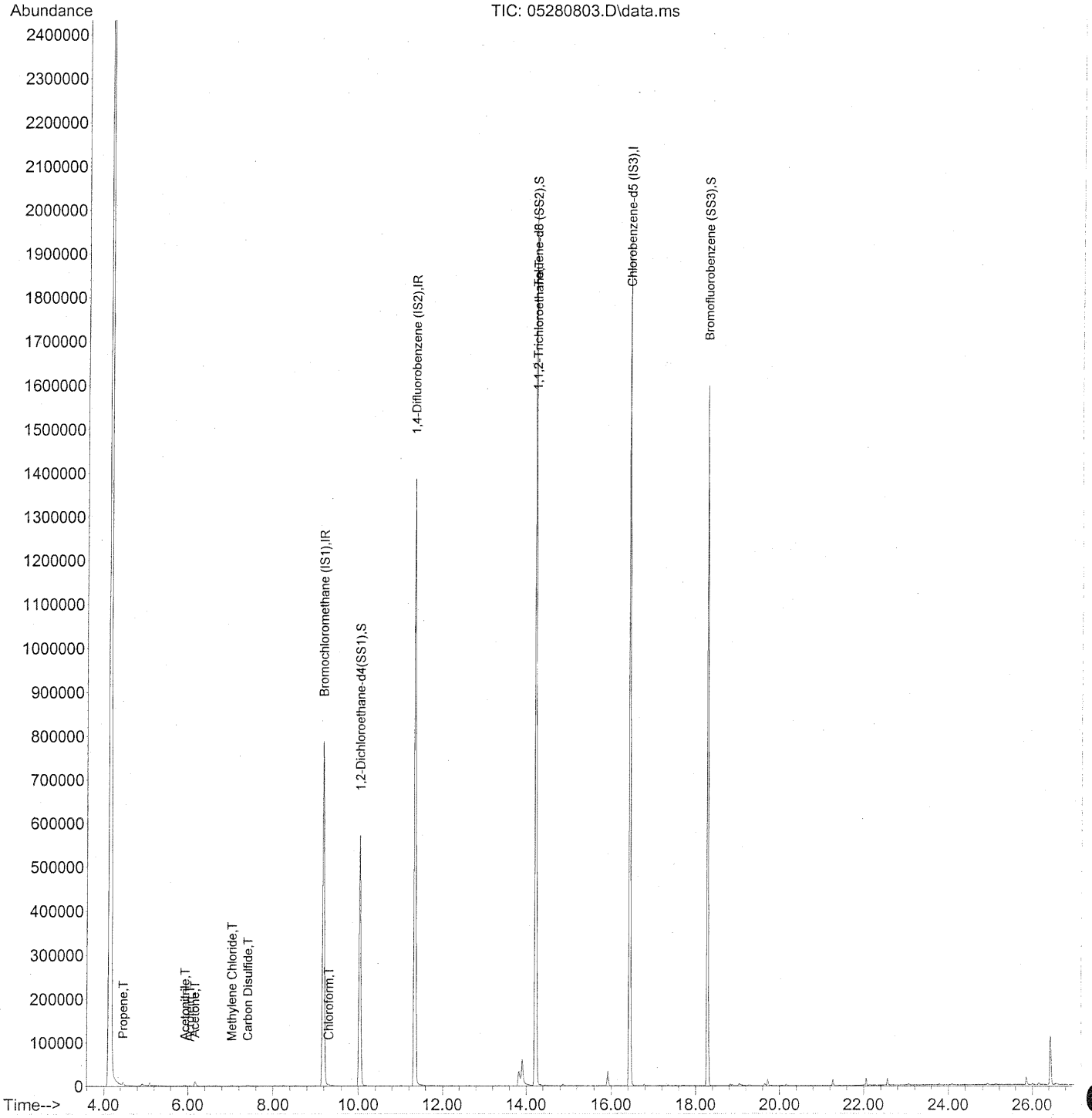
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	385506	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1591554	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	648424	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	542940	24.631	ng		-0.05
Spiked Amount 25.000			Recovery =	98.52%			
57) Toluene-d8 (SS2)	14.22	98	1623034	24.279	ng		-0.02
Spiked Amount 25.000			Recovery =	97.12%			
73) Bromofluorobenzene (SS3)	18.28	174	580146	26.102	ng		-0.01
Spiked Amount 25.000			Recovery =	104.40%			
Target Compounds							Qvalue
2) Propene	4.46	42	1803	0.060	ng		97
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	5.73	45	93	N.D.			
11) Acetonitrile	5.93	41	5620	0.096	ng	#	56
12) Acrolein	6.05	56	869	0.060	ng		97
13) Acetone	6.16	58	7024	0.349	ng	J#	58
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	6.40	45	481	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	7.03	84	988	0.064	ng	J#	39
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	4870	~~0.078~~	ng	< MDL	81
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	9.22	57	868	N.D.			

656

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
32) Chloroform	9.31	83	2056	0.090 ng	98
34) Tetrahydrofuran	0.00	72	0	N.D.	
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.	
36) 1,2-Dichloroethane	0.00	62	0	N.D.	
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.	
39) Isopropyl Acetate	0.00	61	0	N.D.	
40) 1-Butanol	10.86	56	91	N.D.	
41) Benzene	10.99	78	2145	N.D.	
42) Carbon Tetrachloride	0.00	117	0	N.D.	
43) Cyclohexane	11.34	84	666	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	12.24	57	450	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	14.24	97	138177	~~8.466 ng~~ NR#	7
58) Toluene	14.34	91	1430	N.D.	
59) 2-Hexanone	14.60	43	636	N.D.	
60) Dibromochloromethane	0.00	129	0	N.D.	
61) 1,2-Dibromoethane	0.00	107	0	N.D.	
62) Butyl Acetate	15.47	43	534	N.D.	
63) n-Octane	0.00	57	0	N.D.	
64) Tetrachloroethene	0.00	166	0	N.D.	
65) Chlorobenzene	0.00	112	0	N.D.	
66) Ethylbenzene	16.94	91	227	N.D.	
67) m- & p-Xylene	17.13	91	1197	N.D.	
68) Bromoform	0.00	173	0	N.D.	
69) Styrene	17.58	104	93	N.D.	
70) o-Xylene	0.00	91	0	N.D.	
71) n-Nonane	17.96	43	674	N.D.	
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.	
74) Cumene	18.28	105	699	N.D.	
75) alpha-Pinene	0.00	93	0	N.D.	
76) n-Propylbenzene	19.06	91	98	N.D.	
77) 3-Ethyltoluene	19.20	105	208	N.D.	
78) 4-Ethyltoluene	19.23	105	102	N.D.	
79) 1,3,5-Trimethylbenzene	19.33	105	99	N.D.	

657

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

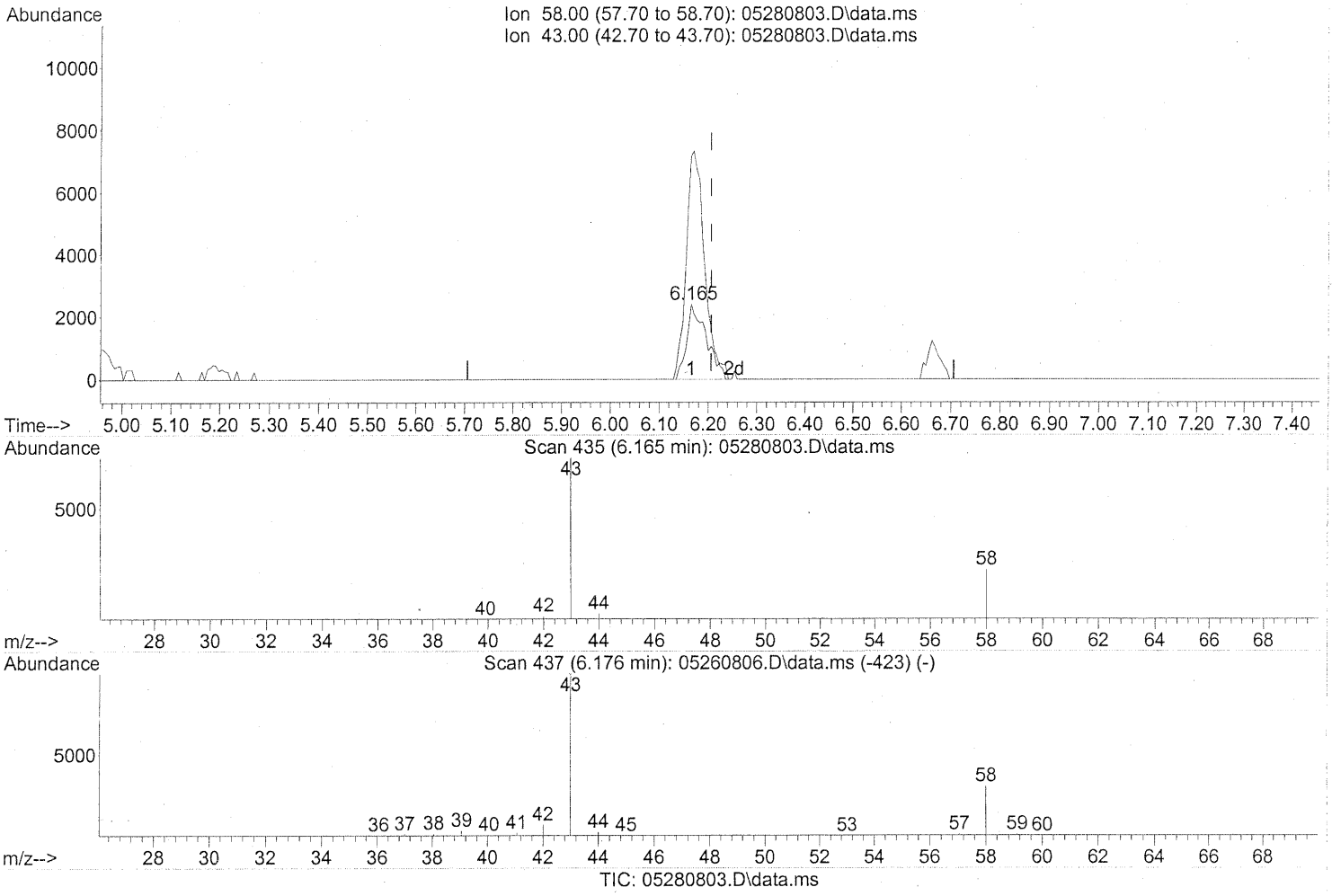
Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units Dev(Min)
80) alpha-Methylstyrene	0.00	118	0	N.D.
81) 2-Ethyltoluene	19.83	105	587	N.D.
82) 1,2,4-Trimethylbenzene	19.83	105	587	N.D.
83) n-Decane	19.92	57	101	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	19.83	105	587	N.D.
88) p-Isopropyltoluene	0.00	119	0	N.D.
89) 1,2,3-Trimethylbenzene	20.75	105	686	N.D.
90) 1,2-Dichlorobenzene	0.00	146	0	N.D.
91) d-Limonene	20.50	68	295	N.D.
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.
93) n-Undecane	21.44	57	292	N.D.
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.
95) Naphthalene	22.70	128	1447	N.D.
96) n-Dodecane	22.67	57	411	N.D.
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.

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

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280803.D\data.ms

(13) Acetone (T)

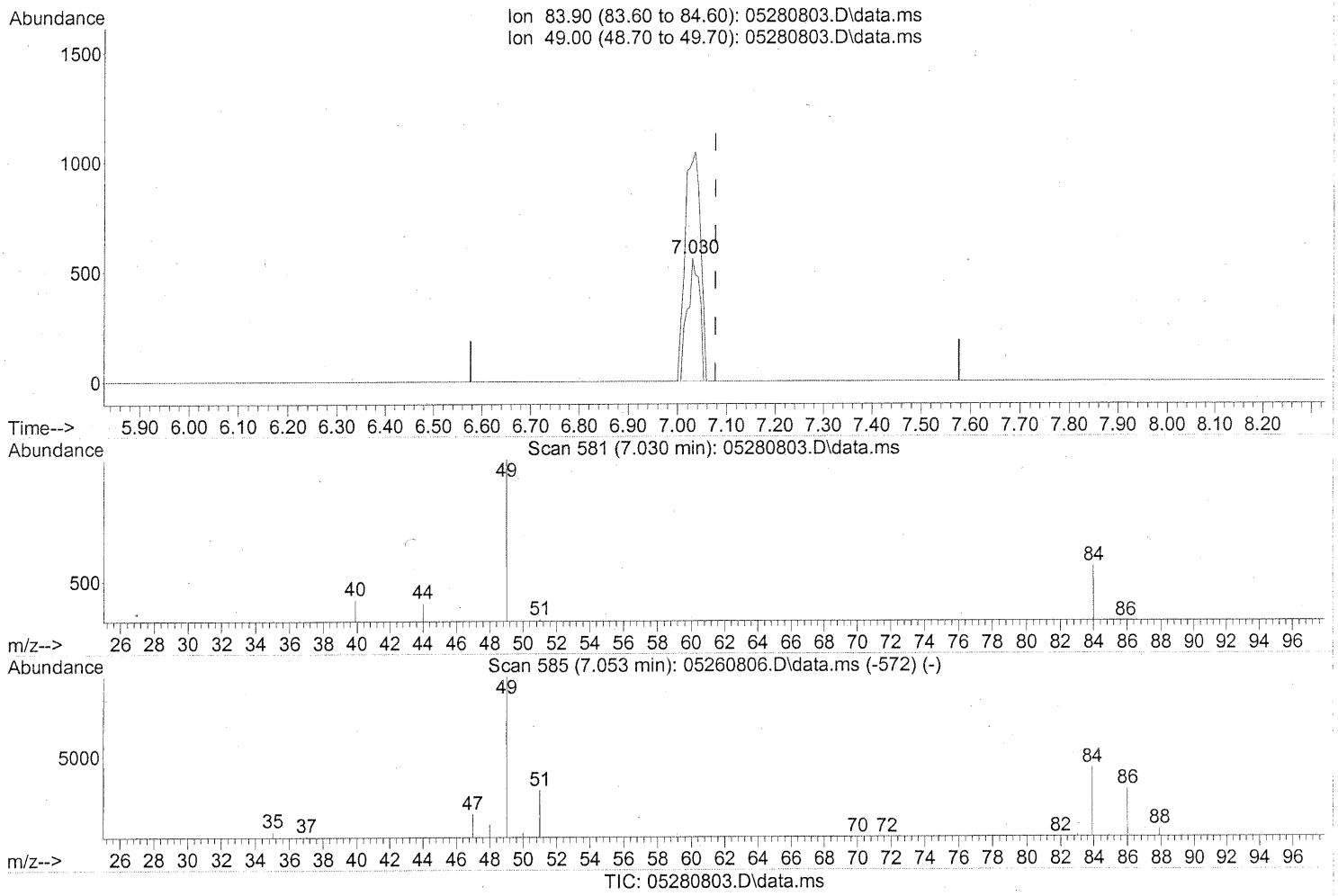
6.165min (-0.041) 0.35ng

response 7024

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	273.46#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280803.D\data.ms

(19) Methylene Chloride (T)

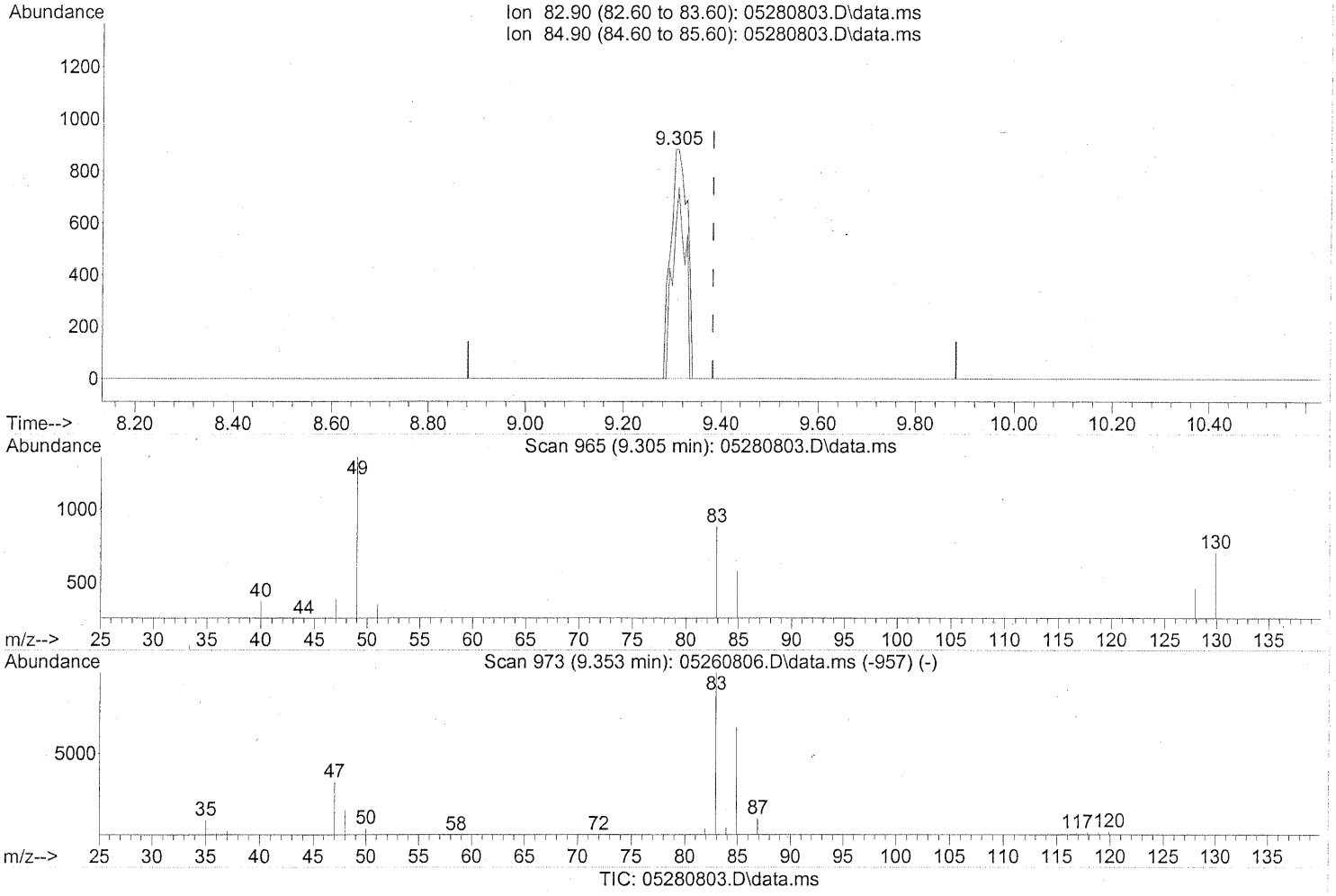
7.030min (-0.047) 0.06ng

response 988

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	234.92#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 10:55:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(32) Chloroform (T)

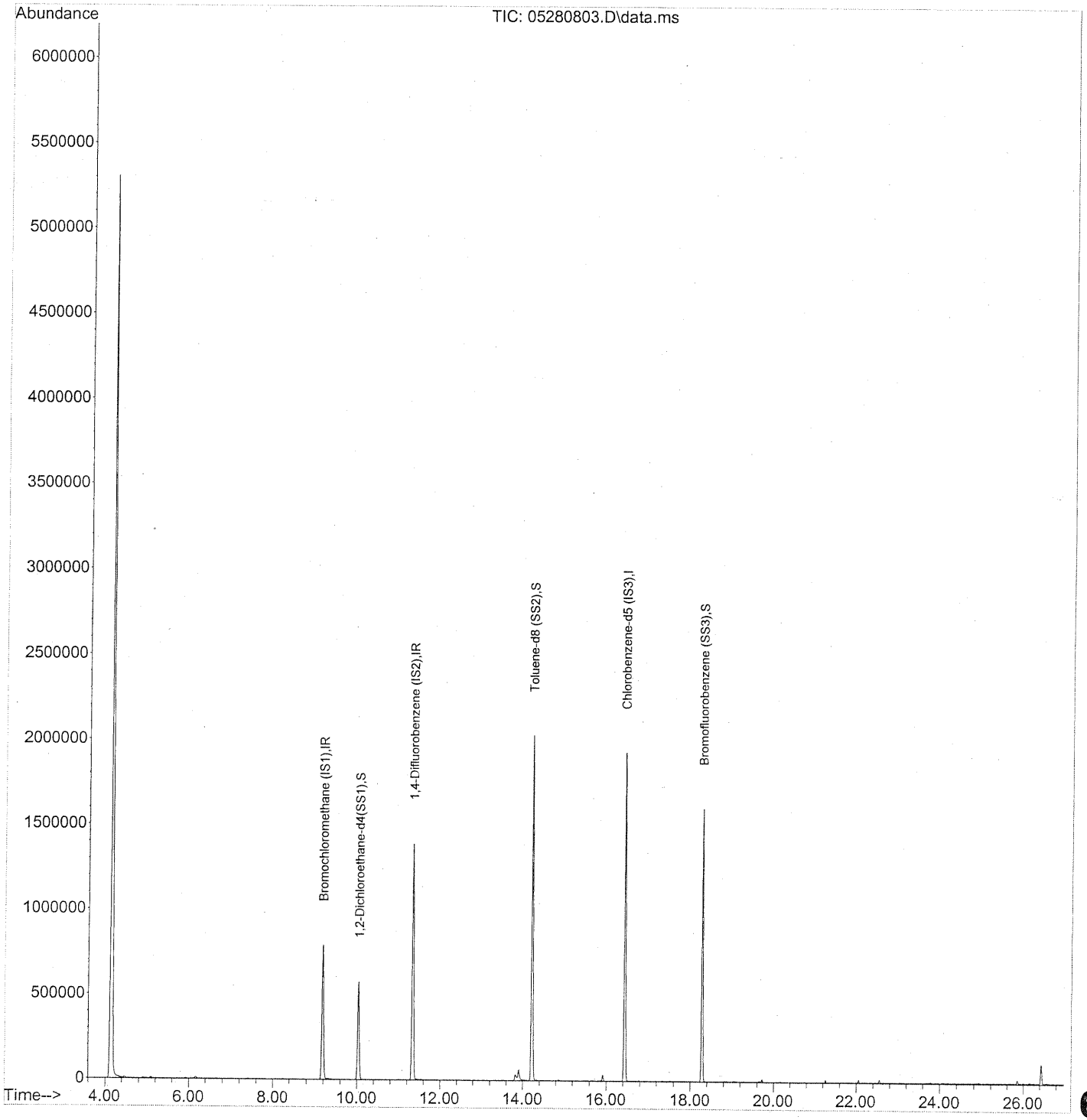
9.305min (-0.077) 0.09ng

response 2056

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	63.23
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:41 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280803.D
Acq On : 28 May 2008 10:19
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:41 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	385506	25.000	ng	-0.06
3) 1,4-Difluorobenzene (IS2)	11.34	114	1591554	25.000	ng	-0.04
4) Chlorobenzene-d5 (IS3)	16.44	82	648424	25.000	ng	-0.02
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.04	65	542940	24.631	ng	-0.05
Spiked Amount 25.000			Recovery =	98.52%		
5) Toluene-d8 (SS2)	14.22	98	1623034	24.279	ng	-0.02
Spiked Amount 25.000			Recovery =	97.12%		
6) Bromofluorobenzene (SS3)	18.28	174	580146	26.102	ng	-0.01
Spiked Amount 25.000			Recovery =	104.40%		
Target Compounds						Qvalue
7) tert-Butylbenzene	0.00	119	0	N.D.		
8) n-Butylbenzene	0.00	91	0	N.D.		

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

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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**	**0.062**	5.0	0.050	**0.033**	2.7	0.027	**J**
67-64-1	**Acetone**	**0.55**	5.0	0.073	**0.23**	2.1	0.031	**J**
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**	**0.055**	0.50	0.050	**0.016**	0.14	0.014	**J**
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**	**0.087**	0.10	0.059	**0.018**	0.020	0.012	**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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

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

CAS Project ID: P0801507
CAS Sample ID: P080529-MB

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: 1.00 Liter(s)

Canister Dilution Factor: 1.00

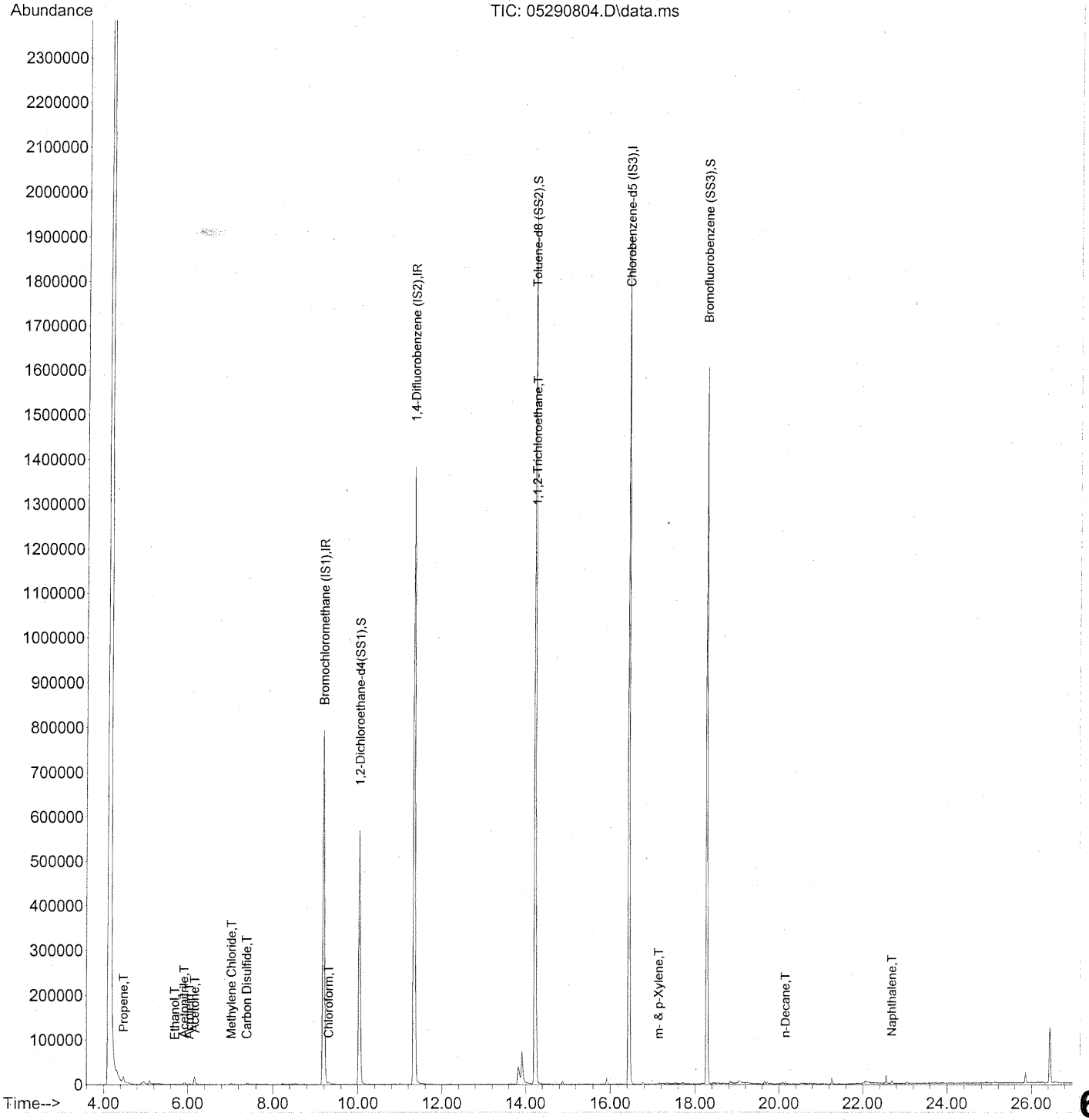
CAS #	Compound	Result µg/m³	MRL µg/m³	MDL µg/m³	Result ppbV	MRL ppbV	MDL ppbV	Data Qualifier
100-41-4	Ethylbenzene	ND	0.50	0.062	ND	0.12	0.014	
179601-23-1	m,p-Xylenes	ND	0.50	0.13	ND	0.12	0.030	
75-25-2	Bromoform	ND	0.50	0.076	ND	0.048	0.0074	
100-42-5	Styrene	ND	0.50	0.076	ND	0.12	0.018	
95-47-6	o-Xylene	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: 6/5/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	381746	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1582084	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.44	82	649804	25.000	ng		-0.02
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	537134	24.607	ng		-0.05
Spiked Amount 25.000			Recovery =	98.44%			
57) Toluene-d8 (SS2)	14.22	98	1618315	24.157	ng		-0.02
Spiked Amount 25.000			Recovery =	96.64%			
73) Bromofluorobenzene (SS3)	18.28	174	586517	26.333	ng		-0.01
Spiked Amount 25.000			Recovery =	105.32%			
Target Compounds							Qvalue
2) Propene	4.48	42	1862	0.063	ng	#	25
3) Dichlorodifluoromethane	4.51	85	90	N.D.			
4) Chloromethane	4.76	50	92	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	5.44	94	101	N.D.			
9) Chloroethane	0.00	64	0	~~N.D.~~			
10) Ethanol	5.70	45	1240	~~0.062~~	ng	#	53
11) Acetonitrile	5.92	41	7226	0.125	ng	#	59
12) Acrolein	6.05	56	1754	0.121	ng		92
13) Acetone	6.18	58	10866	0.545	ng	#	59
14) Trichlorofluoromethane	0.00	101	0	N.D.			
15) Isopropanol	6.40	45	591	N.D.			
16) Acrylonitrile	6.59	53	317	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.98	59	547	N.D.			
19) Methylene Chloride	7.03	84	839	0.055	ng	#	14
20) Allyl Chloride	7.14	41	100	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.39	76	4351	~~0.070~~	ng	#	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	0.00	63	0	N.D.			
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	212	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.			

yes 6/5/08

668

5/29/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.31	83	1958	0.087 ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.		
36) 1,2-Dichloroethane	0.00	62	0	N.D.		
38) 1,1,1-Trichloroethane	0.00	97	0	N.D.		
39) Isopropyl Acetate	0.00	61	0	N.D.		
40) 1-Butanol	10.80	56	461	N.D.		
41) Benzene	11.00	78	2714	N.D.		
42) Carbon Tetrachloride	0.00	117	0	N.D.		
43) Cyclohexane	11.34	84	1001	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	12.23	57	543	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	14.24	97	135973	~~8.381 ng~~ NR	#	7
58) Toluene	14.35	91	2522	N.D.		
59) 2-Hexanone	14.59	43	1444	N.D.		
60) Dibromochloromethane	0.00	129	0	N.D.		
61) 1,2-Dibromoethane	0.00	107	0	N.D.		
62) Butyl Acetate	15.30	43	2476	N.D.		
63) n-Octane	15.45	57	94	N.D.		
64) Tetrachloroethene	0.00	166	0	N.D.		
65) Chlorobenzene	16.50	112	361	N.D.		
66) Ethylbenzene	16.93	91	2377	N.D.		
67) m- & p-Xylene	17.14	91	4264	~~0.075 ng~~	#	41
68) Bromoform	0.00	173	0	N.D.		
69) Styrene	17.58	104	981	N.D.		
70) o-Xylene	17.72	91	1618	N.D.		
71) n-Nonane	17.97	43	338	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.		
74) Cumene	18.47	105	81	N.D.		
75) alpha-Pinene	0.00	93	0	N.D.		
76) n-Propylbenzene	19.07	91	1616	N.D.		
77) 3-Ethyltoluene	19.19	105	628	N.D.		
78) 4-Ethyltoluene	19.24	105	1186	N.D.		
79) 1,3,5-Trimethylbenzene	19.33	105	844	N.D.		

669

5/29/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	458	N.D.		
81) 2-Ethyltoluene	19.57	105	2056	N.D.		
82) 1,2,4-Trimethylbenzene	19.82	105	1320	N.D.		
83) n-Decane	20.15	57	2940	~~0.052 ng~~	#	41
84) Benzyl Chloride	20.00	91	2680	N.D.		
85) 1,3-Dichlorobenzene	20.02	146	1038	N.D.		
86) 1,4-Dichlorobenzene	20.11	146	1714	N.D.		
87) sec-Butylbenzene	20.16	105	345	N.D.		
88) p-Isopropyltoluene	20.34	119	575	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	731	N.D.		
90) 1,2-Dichlorobenzene	20.52	146	1019	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	21.43	57	89	N.D.		
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	7631	~~0.066 ng~~		97
96) n-Dodecane	22.66	57	537	N.D.		
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

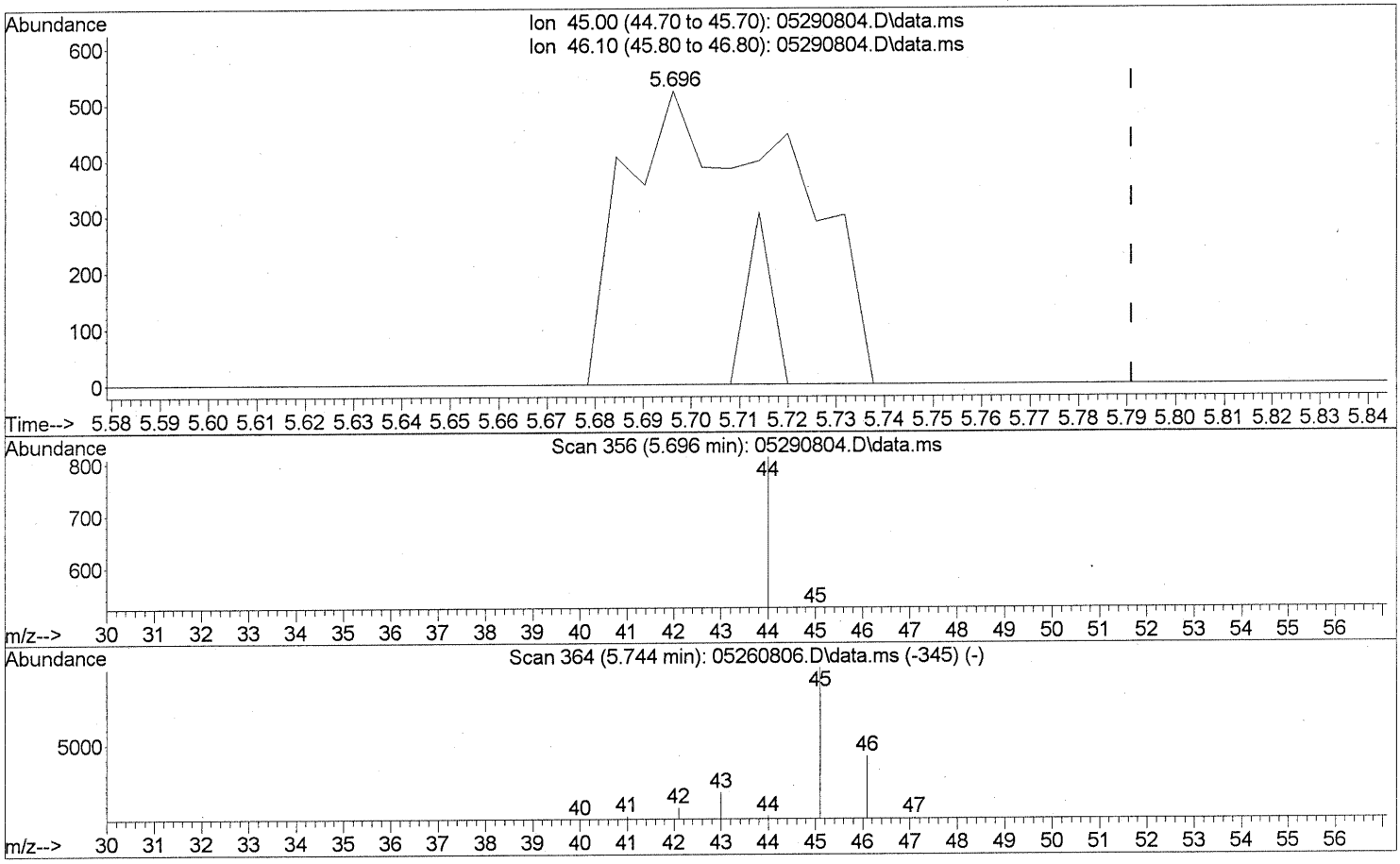
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290804.D\data.ms

(10) Ethanol (T)

5.696min (-0.095) 0.06ng

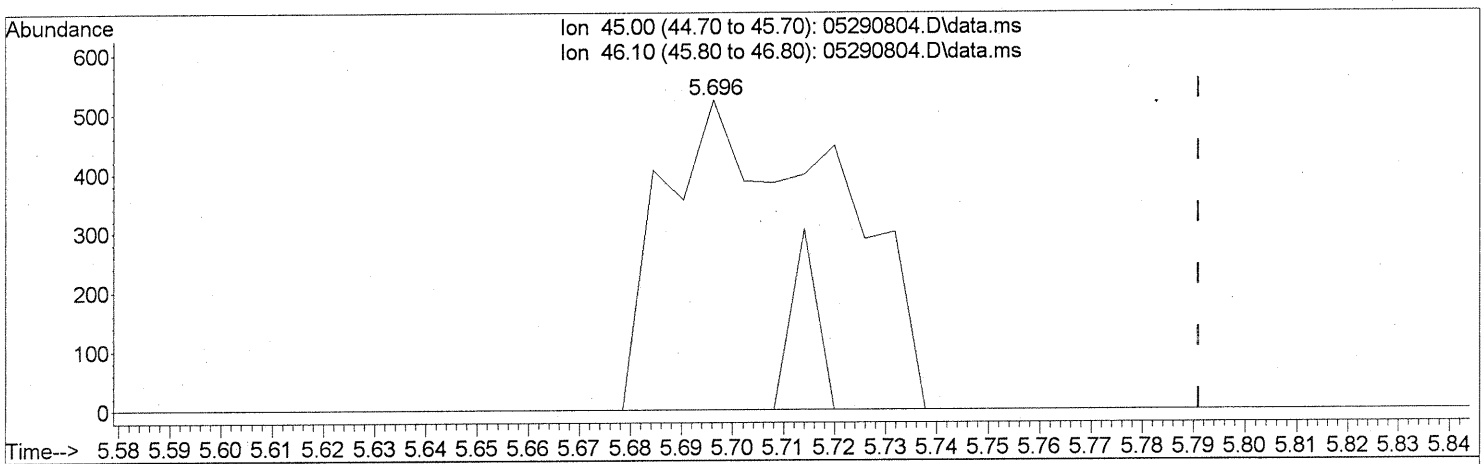
response 1240

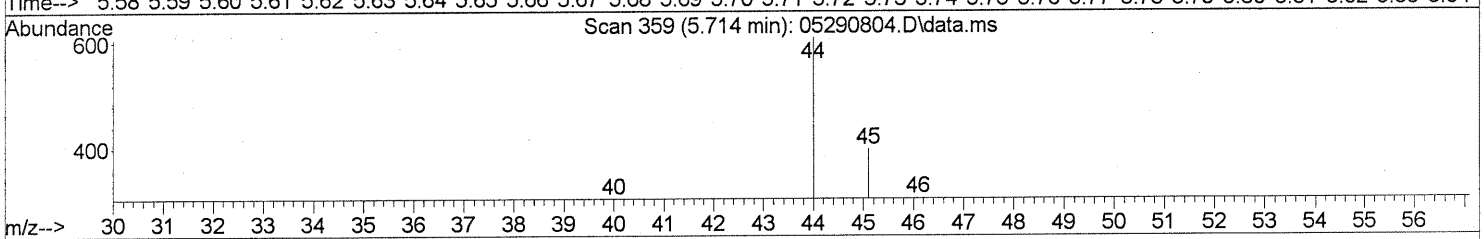
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	8.79#
0.00	0.00	0.00
0.00	0.00	0.00

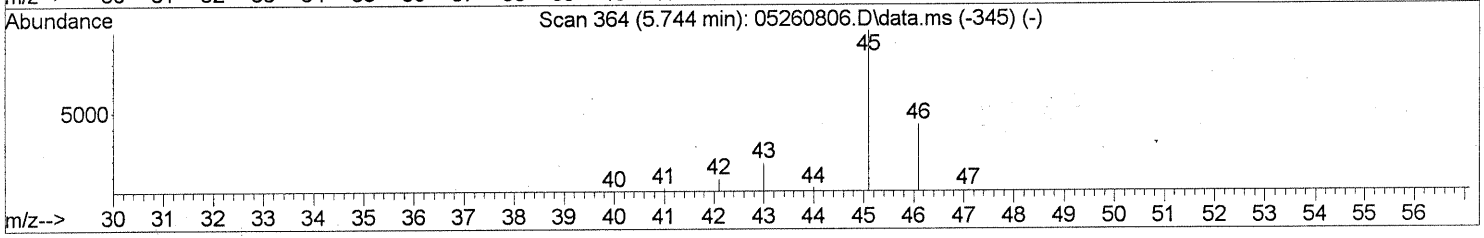
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05290804.D\data.ms

(10) Ethanol (T)

5.696min (-0.095) 0.06ng

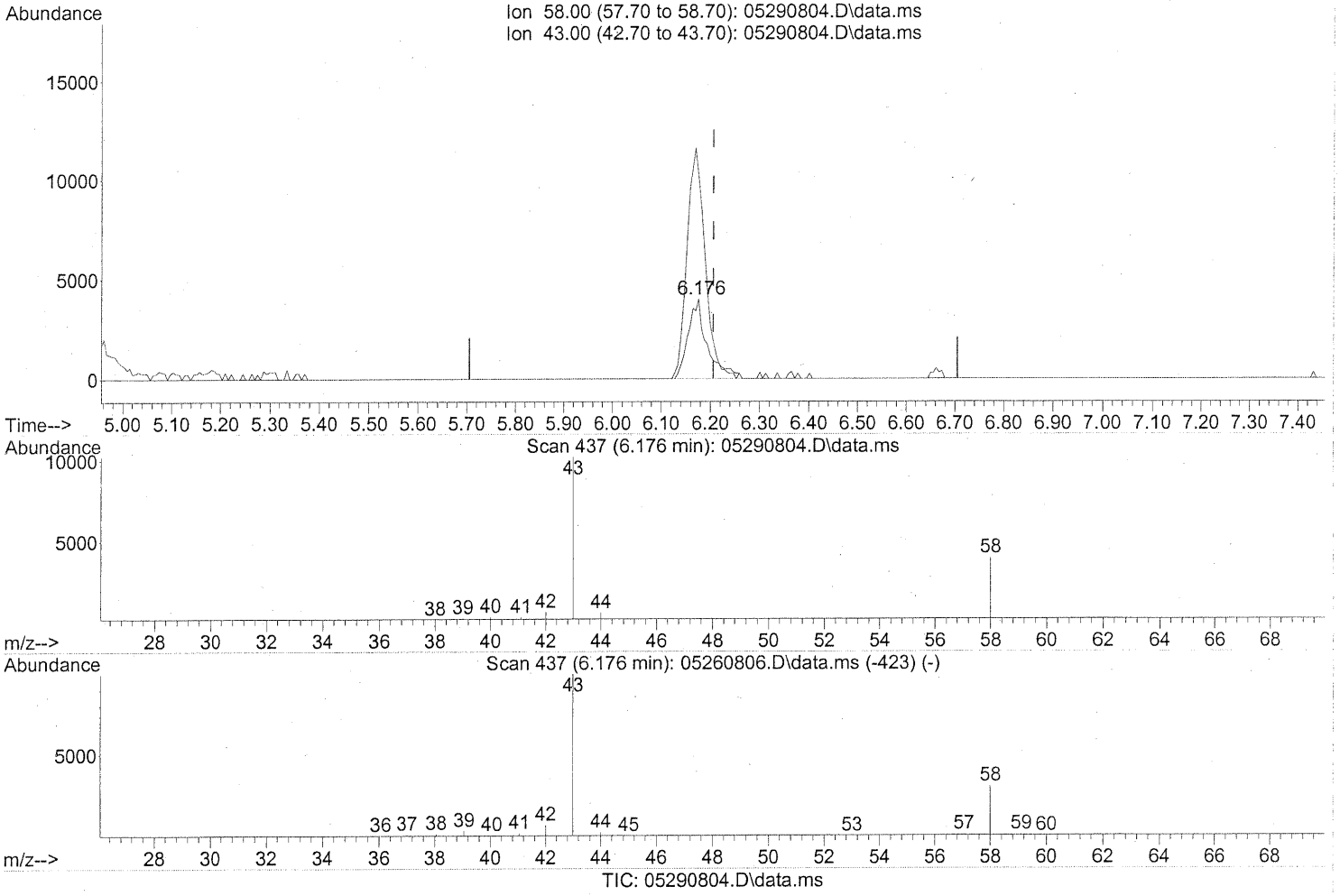
response 1240

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	8.79#
0.00	0.00	0.00
0.00	0.00	0.00

Spectra taken on the middle of the peak on 6/5/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(13) Acetone (T)

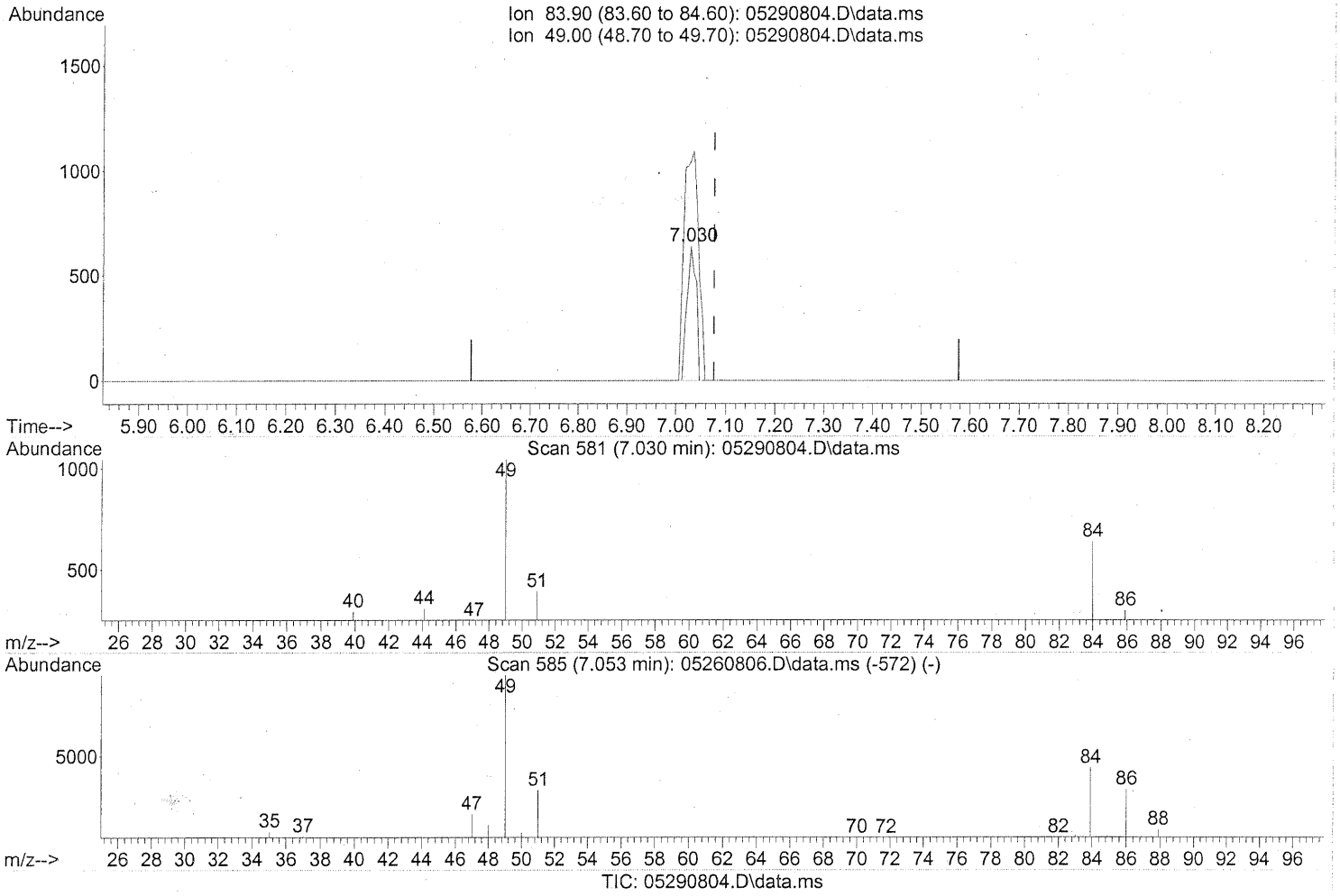
6.176min (-0.030) 0.54ng

response 10866

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	275.47#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290804.D\data.ms

(19) Methylene Chloride (T)

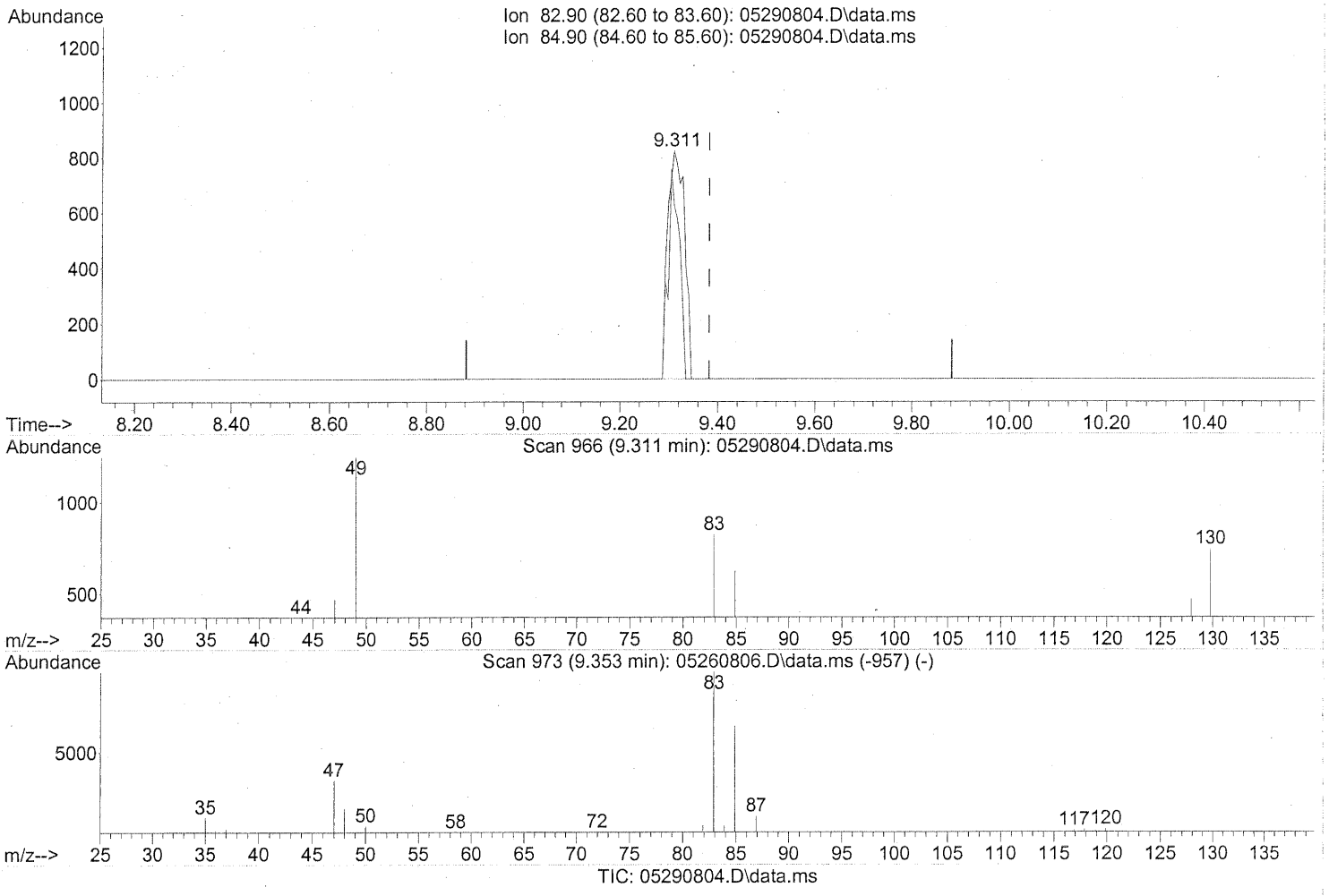
7.030min (-0.047) 0.05ng

response 839

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	266.98#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34 am
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 29 15:16:19 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290804.D\data.ms

(32) Chloroform (T)

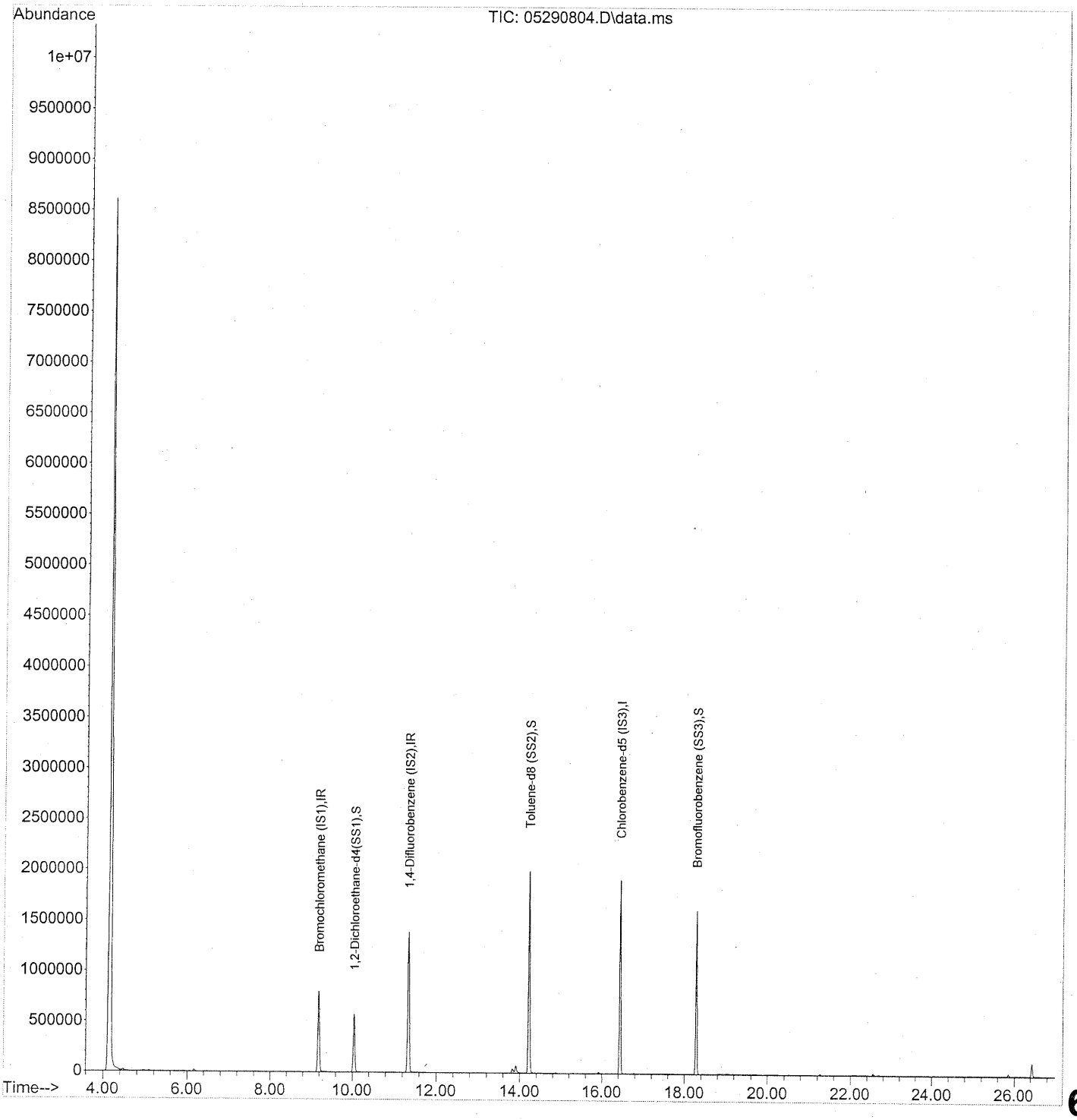
9.311min (-0.071) 0.09ng

response 1958

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	60.98
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:39:55 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290804.D
Acq On : 29 May 2008 10:34
Operator : WA
Sample : TO-15 Method Blank
Misc : S20-05120801
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 14:39:55 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	381746	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.34	114	1582084	25.000	ng	-0.04
4) Chlorobenzene-d5 (IS3)	16.44	82	649804	25.000	ng	-0.02
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.04	65	537134	24.607	ng	-0.05
Spiked Amount 25.000			Recovery =	98.44%		
5) Toluene-d8 (SS2)	14.22	98	1618315	24.157	ng	-0.02
Spiked Amount 25.000			Recovery =	96.64%		
6) Bromofluorobenzene (SS3)	18.28	174	586517	26.333	ng	-0.01
Spiked Amount 25.000			Recovery =	105.32%		
Target Compounds						Qvalue
7) tert-Butylbenzene	19.84	119	202	N.D.		
8) n-Butylbenzene	20.84	91	759	N.D.		

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

QC SUMMARY FORMS

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Client: **ENSR**
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Project ID: P0801507

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date(s) Collected: 5/19 - 5/20/08
Analyst: Wida Ang Date(s) Received: 5/21/08
Sampling Media: 6.0 L Summa Canister(s) Date(s) Analyzed: 5/27 - 5/29/08
Test Notes:

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	P080527-MB	**97**	70-130	**98**	70-130	**103**	70-130	
Method Blank	P080528-MB	**99**	70-130	**97**	70-130	**104**	70-130	
Method Blank	P080529-MB	**98**	70-130	**97**	70-130	**105**	70-130	
Lab Control Sample	P080527-LCS	**98**	70-130	**98**	70-130	**102**	70-130	
Lab Control Sample	P080528-LCS	**100**	70-130	**97**	70-130	**104**	70-130	
Lab Control Sample	P080529-LCS	**100**	70-130	**95**	70-130	**106**	70-130	
SG77B-05	P0801507-001	**96**	70-130	**98**	70-130	**103**	70-130	
SG30B-05	P0801507-002	**98**	70-130	**99**	70-130	**103**	70-130	
SG29B-05	P0801507-003	**99**	70-130	**96**	70-130	**102**	70-130	
SG59B-05	P0801507-004	**98**	70-130	**98**	70-130	**103**	70-130	
SG31B-05	P0801507-005	**98**	70-130	**96**	70-130	**103**	70-130	
SG60B-05	P0801507-006	**99**	70-130	**96**	70-130	**103**	70-130	
SG58B-05	P0801507-007	**99**	70-130	**96**	70-130	**105**	70-130	
SG56B-05	P0801507-008	**98**	70-130	**98**	70-130	**102**	70-130	
SG56B-05	P0801507-008DUP	**99**	70-130	**97**	70-130	**101**	70-130	
SG56B-05D	P0801507-009	**100**	70-130	**97**	70-130	**104**	70-130	
SG55B-05	P0801507-010	**100**	70-130	**98**	70-130	**102**	70-130	
SG57B-05	P0801507-011	**100**	70-130	**97**	70-130	**103**	70-130	
SG13B-05	P0801507-012	**100**	70-130	**96**	70-130	**102**	70-130	
SG15B-05	P0801507-013	**110**	70-130	**75**	70-130	**127**	70-130	
SG14B-05	P0801507-014	**100**	70-130	**97**	70-130	**103**	70-130	
SG06B-05	P0801507-015	**98**	70-130	**97**	70-130	**104**	70-130	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080527-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
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	**23.7**	**93**	69-117	
74-87-3	Chloromethane	24.5	**24.1**	**98**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**25.8**	**99**	58-133	
75-01-4	Vinyl Chloride	24.8	**23.8**	**96**	61-127	
74-83-9	Bromomethane	25.0	**25.2**	**101**	67-124	
75-00-3	Chloroethane	25.0	**23.7**	**95**	69-123	
64-17-5	Ethanol	23.8	**24.8**	**104**	56-137	
67-64-1	Acetone	26.8	**25.5**	**95**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**25.5**	**97**	71-120	
107-13-1	Acrylonitrile	25.5	**26.4**	**104**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**27.9**	**100**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**26.5**	**103**	35-141	
75-09-2	Methylene Chloride	27.8	**26.9**	**97**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**28.6**	**107**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.4**	**99**	63-129	
75-15-0	Carbon Disulfide	25.0	**23.1**	**92**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**26.6**	**100**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**27.2**	**101**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.0**	**101**	72-119	
108-05-4	Vinyl Acetate	25.3	**28.5**	**113**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**27.4**	**101**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.1**	**100**	74-117	
108-20-3	Diisopropyl Ether	26.3	**26.8**	**102**	70-131	
67-66-3	Chloroform	29.8	**30.9**	**104**	72-113	

Verified By: CM Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: **ENSR**
Client Sample ID: **Lab Control Sample** CAS Project ID: P0801507
Client Project ID: **Soil Gas Sampling / 04020-023-4311** CAS Sample ID: P080527-LCS

Test Code: EPA TO-15 Date Collected: NA
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Date Received: NA
Analyst: Wida Ang Date Analyzed: 5/27/08
Sampling Media: 6.0 L Summa Canister Volume(s) Analyzed: NA Liter(s)
Test Notes:

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
637-92-3	Ethyl tert-Butyl Ether	26.0	**26.6**	**102**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**26.3**	**100**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**26.7**	**100**	78-114	
71-43-2	Benzene	27.0	**24.8**	**92**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**26.5**	**102**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**26.9**	**103**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**26.6**	**100**	78-117	
75-27-4	Bromodichloromethane	27.8	**28.6**	**103**	77-120	
79-01-6	Trichloroethene	27.3	**27.6**	**101**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.1**	**106**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.2**	**109**	79-128	
142-82-5	n-Heptane	26.8	**27.2**	**101**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**26.5**	**106**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.2**	**95**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**29.4**	**105**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.0**	**103**	80-117	
108-88-3	Toluene	26.5	**25.2**	**95**	76-116	
591-78-6	2-Hexanone	26.3	**23.3**	**89**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.2**	**101**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**25.8**	**98**	79-122	
111-65-9	n-Octane	26.0	**25.6**	**98**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.6**	**98**	77-118	
108-90-7	Chlorobenzene	26.5	**25.6**	**97**	78-117	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080527-LCS

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

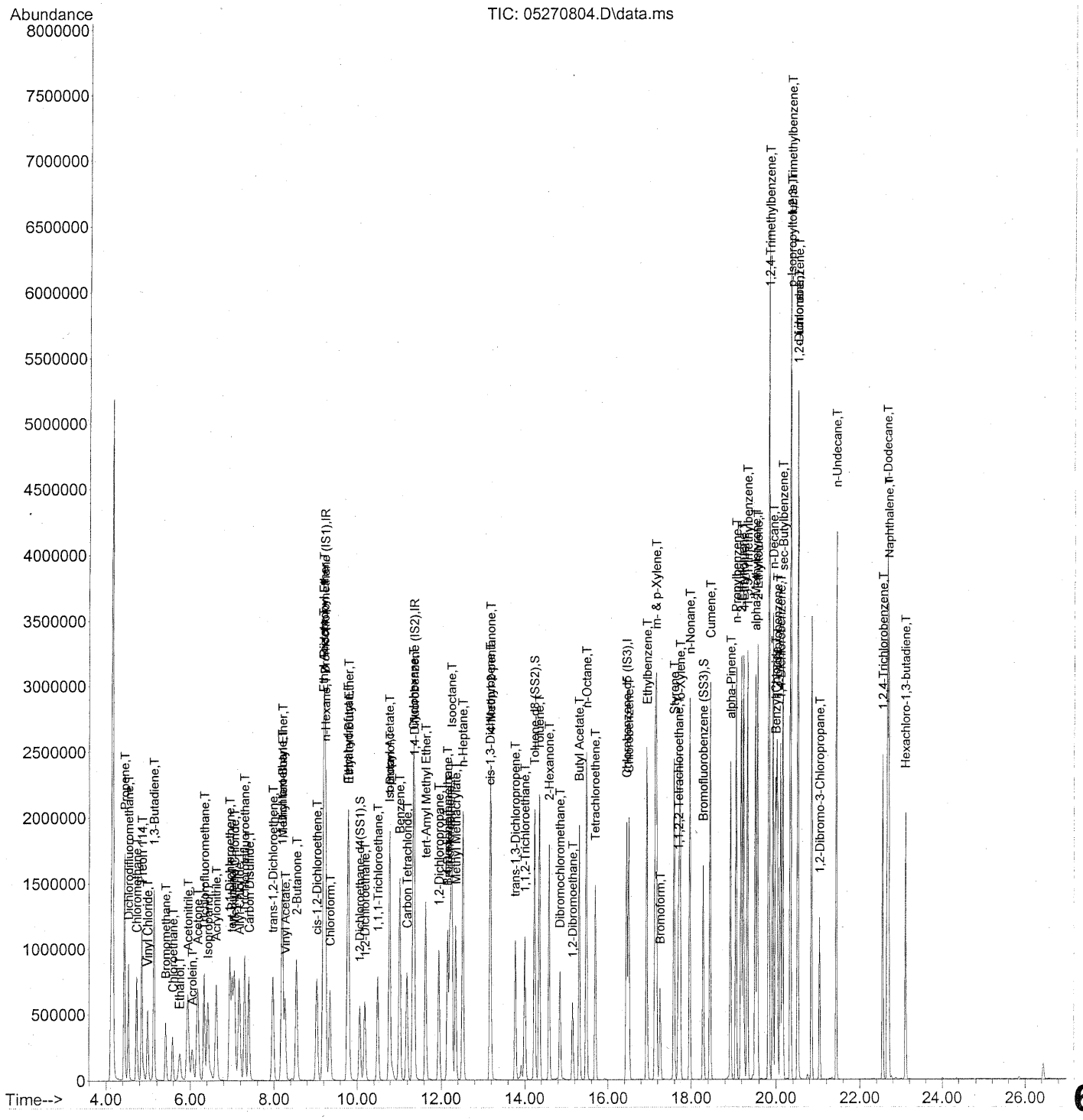
Date Collected: NA
Date Received: NA
Date Analyzed: 5/27/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**25.7**	**98**	79-116	
179601-23-1	m,p-Xylenes	62.5	**60.3**	**96**	80-117	
75-25-2	Bromoform	31.3	**34.4**	**110**	77-128	
100-42-5	Styrene	26.3	**26.9**	**102**	80-124	
95-47-6	o-Xylene	29.8	**28.7**	**96**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.1**	**98**	79-120	
98-82-8	Cumene	27.0	**26.6**	**99**	81-119	
103-65-1	n-Propylbenzene	26.3	**26.0**	**99**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.4**	**100**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.5**	**98**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.2**	**103**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.5**	**98**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.5**	**107**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.1**	**98**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**25.8**	**98**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.4**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.1**	**101**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.3**	**98**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**27.4**	**106**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**28.0**	**108**	75-138	
91-20-3	Naphthalene	26.3	**27.1**	**103**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**26.6**	**101**	72-128	
98-06-6	tert-Butylbenzene	26.3	**25.8**	**98**	70-130	
104-51-8	n-Butylbenzene	26.8	**26.3**	**98**	70-130	

Verified By: CH Date: 6/5/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 18:37:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\27\
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Operator : WA
Sample : 25ng TO-15 LCS STD
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Quant Time: May 28 18:37:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	406006	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1679145	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	16.45	82	677576	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	567327	24.437	ng		-0.02
Spiked Amount 25.000			Recovery = 97.76%				
57) Toluene-d8 (SS2)	14.24	98	1708167	24.453	ng		-0.01
Spiked Amount 25.000			Recovery = 97.80%				
73) Bromofluorobenzene (SS3)	18.29	174	594352	25.591	ng		0.00
Spiked Amount 25.000			Recovery = 102.36%				
Target Compounds							Qvalue
2) Propene	4.43	42	815534	25.949	ng		92
3) Dichlorodifluoromethane	4.53	85	902538	23.742	ng		98
4) Chloromethane	4.73	50	1151311	24.105	ng		100
5) Freon 114	4.85	135	548967	25.838	ng		97
6) Vinyl Chloride	4.98	62	724530	23.819	ng		94
7) 1,3-Butadiene	5.13	54	865707	31.224	ng	#	85
8) Bromomethane	5.42	94	394828	25.182	ng		98
9) Chloroethane	5.59	64	371770	23.652	ng		96
10) Ethanol	5.75	45	529867m	24.847	ng		
11) Acetonitrile	5.95	41	1391969	22.645	ng		98
12) Acrolein	6.05	56	399096	25.956	ng		100
13) Acetone	6.18	58	540061	25.457	ng	#	75
14) Trichlorofluoromethane	6.34	101	905711	25.451	ng		100
15) Isopropanol	6.43	45	1555358m	24.339	ng		
16) Acrylonitrile	6.63	53	1018161	26.405	ng		97
17) 1,1-Dichloroethene	6.95	96	463344	27.901	ng		94
18) tert-Butanol	7.00	59	1581437	26.544	ng		96
19) Methylene Chloride	7.05	84	440692	26.933	ng	#	45
20) Allyl Chloride	7.17	41	1080373	28.644	ng		83
21) Trichlorotrifluoroethane	7.30	151	473094	27.359	ng		85
22) Carbon Disulfide	7.40	76	1522422	23.132	ng		100
23) trans-1,2-Dichloroethene	7.97	61	870375	26.610	ng		93
24) 1,1-Dichloroethane	8.19	63	944845	27.203	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1367778	26.971	ng		80
26) Vinyl Acetate	8.27	86	98877	28.458	ng	#	1
27) 2-Butanone	8.55	72	303703	27.381	ng	#	26
28) cis-1,2-Dichloroethene	9.04	61	816058	27.128	ng		94
29) Diisopropyl Ether	9.20	87	391228	26.778	ng	#	51
30) Ethyl Acetate	9.19	61	233070	30.117	ng		85
31) n-Hexane	9.25	57	1212911	26.221	ng		93

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 18:37:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.36	83	740399	30.903	ng		95
34) Tetrahydrofuran	9.78	72	290464	27.862	ng	#	49
35) Ethyl tert-Butyl Ether	9.80	87	569379	26.627	ng	#	78
36) 1,2-Dichloroethane	10.19	62	721786	26.277	ng		96
38) 1,1,1-Trichloroethane	10.50	97	762559	26.674	ng		94
39) Isopropyl Acetate	10.78	61	379301	26.717	ng	#	69
40) 1-Butanol	10.79	56	654130	23.668	ng		96
41) Benzene	11.02	78	1752274	24.750	ng		99
42) Carbon Tetrachloride	11.20	117	770730	26.542	ng		98
43) Cyclohexane	11.34	84	693558	25.056	ng	#	49
44) tert-Amyl Methyl Ether	11.64	73	1265807	26.852	ng		78
45) 1,2-Dichloropropane	11.95	63	555649	26.578	ng		96
46) Bromodichloromethane	12.16	83	595609	28.621	ng		93
47) Trichloroethene	12.21	130	609120	27.641	ng		99
48) 1,4-Dioxane	12.16	88	384506	29.073	ng	#	70
49) Isooctane	12.26	57	2993062	26.444	ng		91
50) Methyl Methacrylate	12.36	100	213998	28.172	ng	#	71
51) n-Heptane	12.52	71	459004	27.161	ng	#	51
52) cis-1,3-Dichloropropene	13.17	75	697938	26.488	ng		100
53) 4-Methyl-2-pentanone	13.19	58	645354	26.218	ng		85
54) trans-1,3-Dichloropropene	13.77	75	714207	29.405	ng		99
55) 1,1,2-Trichloroethane	14.00	97	464240	26.960	ng		90
58) Toluene	14.35	91	1997860	25.213	ng		98
59) 2-Hexanone	14.59	43	1740713	23.261	ng		100
60) Dibromochloromethane	14.85	129	637140	27.248	ng		100
61) 1,2-Dibromoethane	15.15	107	562015	25.835	ng		99
62) Butyl Acetate	15.31	43	1935427	25.722	ng		92
63) n-Octane	15.49	57	613807	25.618	ng		95
64) Tetrachloroethene	15.70	166	599032	25.559	ng		99
65) Chlorobenzene	16.50	112	1446402	25.617	ng		100
66) Ethylbenzene	16.95	91	2311926	25.668	ng		93
67) m- & p-Xylene	17.16	91	3597599	60.287	ng		92
68) Bromoform	17.26	173	467371	34.427	ng		100
69) Styrene	17.60	104	1549280	26.875	ng		94
70) o-Xylene	17.74	91	1832518	28.691	ng		93
71) n-Nonane	17.97	43	1564591	24.823	ng		95
72) 1,1,2,2-Tetrachloroethane	17.70	83	768752	29.066	ng		94
74) Cumene	18.45	105	2474675	26.614	ng		95
75) alpha-Pinene	18.94	93	1169170	26.799	ng		92
76) n-Propylbenzene	19.07	91	2805706	25.966	ng		92
77) 3-Ethyltoluene	19.20	105	2509708	24.604	ng		95
78) 4-Ethyltoluene	19.24	105	2434133	26.449	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	2080080	25.492	ng		92

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 28 18:37:28 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1204302	26.247	ng		98
81) 2-Ethyltoluene	19.57	105	2446060	24.731	ng		93
82) 1,2,4-Trimethylbenzene	19.84	105	2107906	25.516	ng		91
83) n-Decane	19.93	57	1531189	26.181	ng		80
84) Benzyl Chloride	20.00	91	1757683	27.537	ng		89
85) 1,3-Dichlorobenzene	20.03	146	1314219	25.107	ng		99
86) 1,4-Dichlorobenzene	20.11	146	1310703	25.794	ng		98
87) sec-Butylbenzene	20.16	105	2832172	26.426	ng		95
88) p-Isopropyltoluene	20.34	119	2728396	29.139	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	2206931	27.823	ng		89
90) 1,2-Dichlorobenzene	20.52	146	1214346	25.273	ng		99
91) d-Limonene	20.52	68	675734	26.544	ng		87
92) 1,2-Dibromo-3-Chloropr...	21.04	157	422830	27.377	ng		80
93) n-Undecane	21.43	57	1643434	26.795	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	243378	28.001	ng	#	88
95) Naphthalene	22.69	128	3250977	27.086	ng		99
96) n-Dodecane	22.66	57	1625727	27.203	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	384027	26.593	ng		99

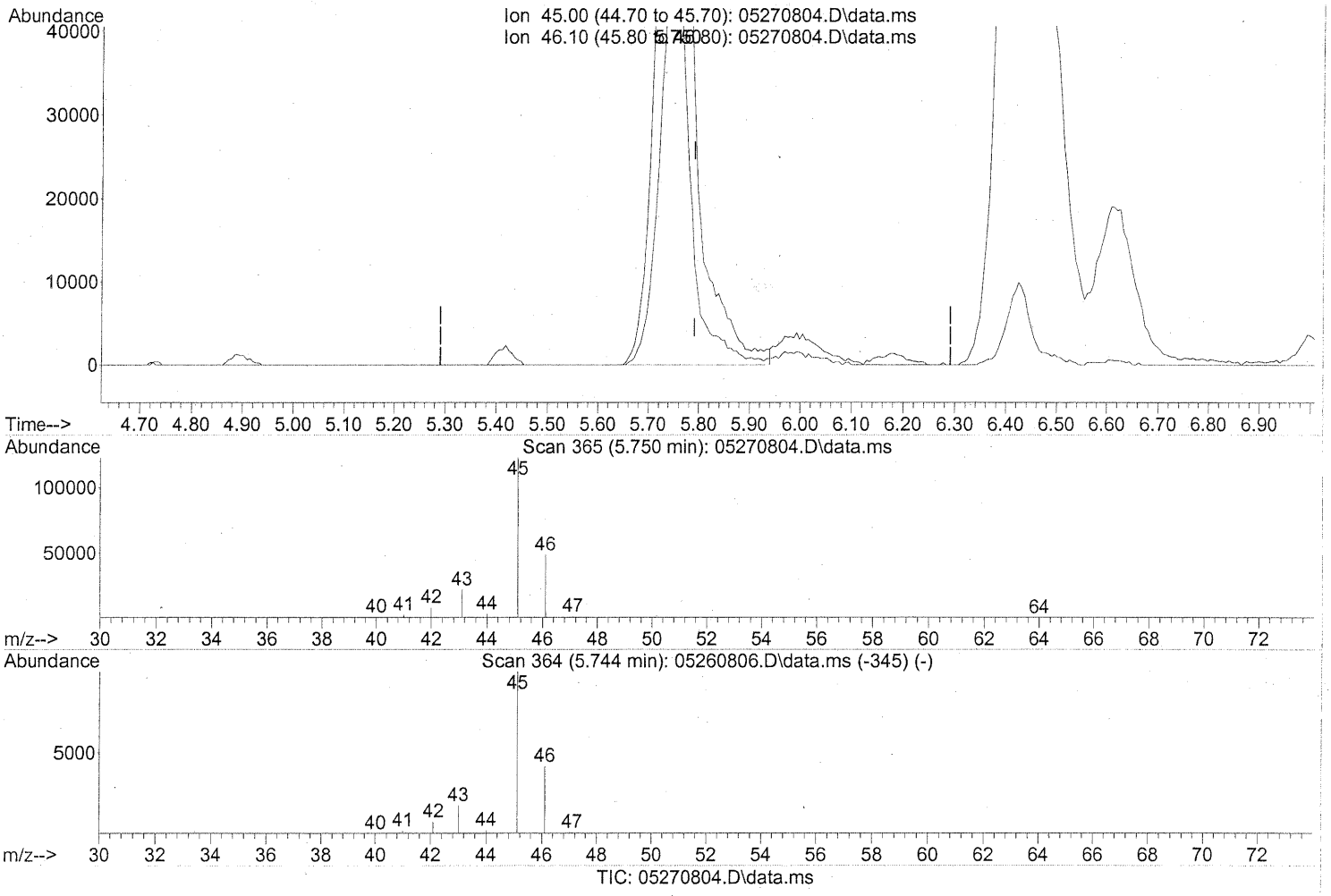
(#) = qualifier out of range (m) = manual integration (+) = signals summed

pdf 5/28/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 14:17:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270804.D\data.ms

(10) Ethanol (T)

5.750min (-0.041) 23.84ng

response 508419

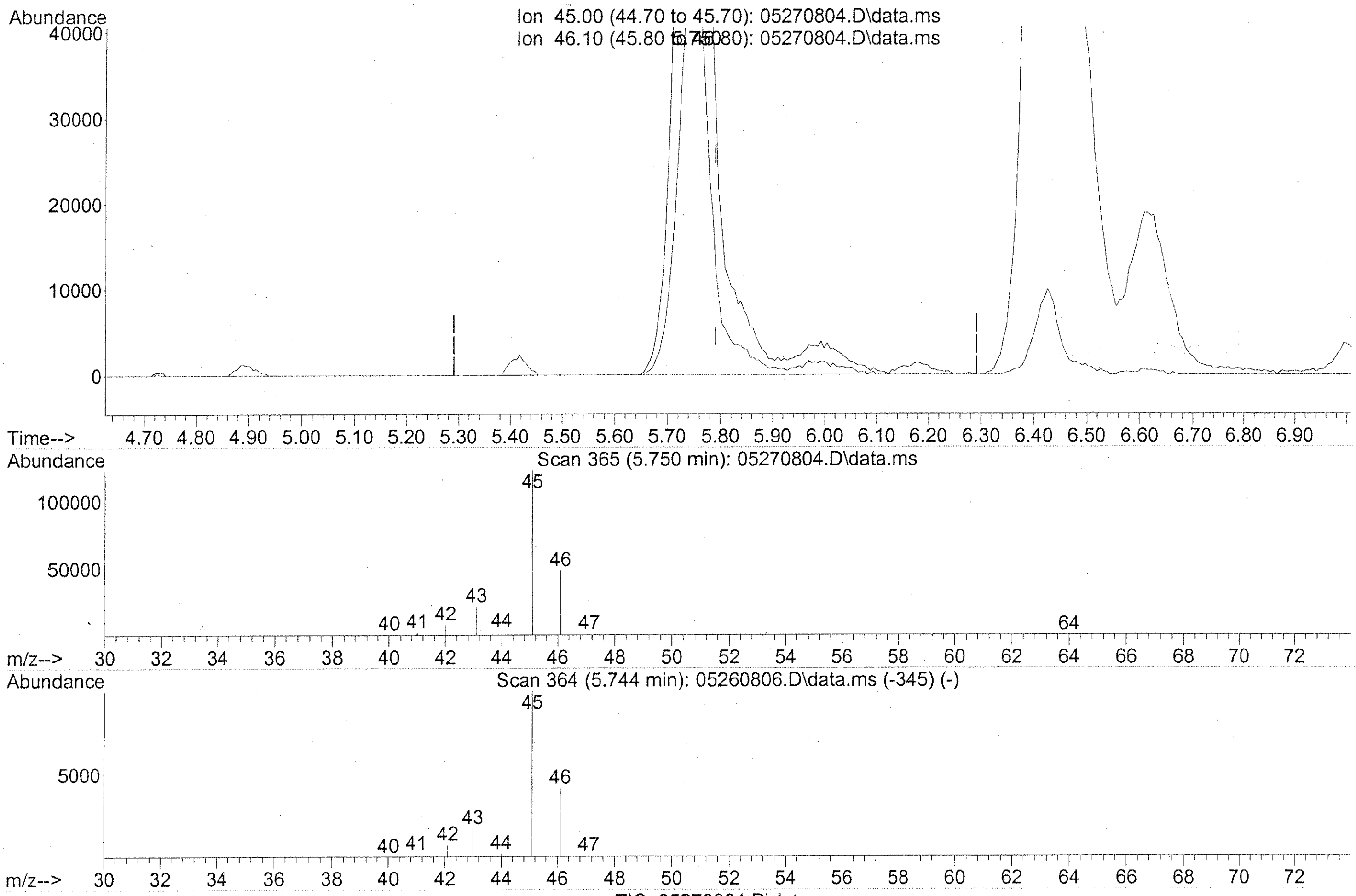
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 14:17:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270804.D\data.ms

(10) Ethanol (T)

5.750min (-0.041) 24.85ng m

response 529867

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.46
0.00	0.00	0.00
0.00	0.00	0.00

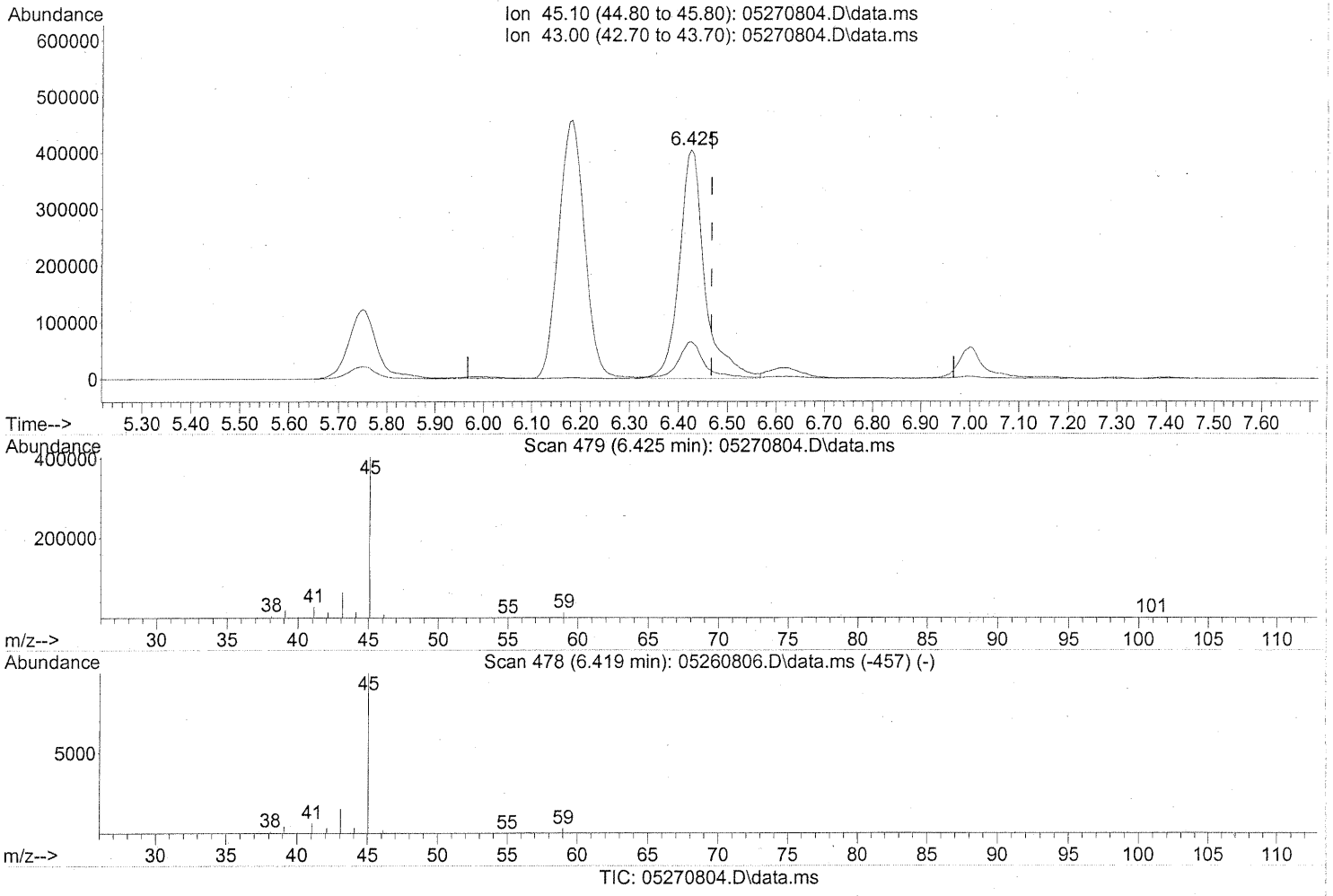
int. whole peaks
POA 5/28/08

WA 5/28/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 14:17:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270804.D\data.ms

(15) Isopropanol (T)

6.425min (-0.042) 22.90ng

response 1463641

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.47
0.00	0.00	0.00
0.00	0.00	0.00

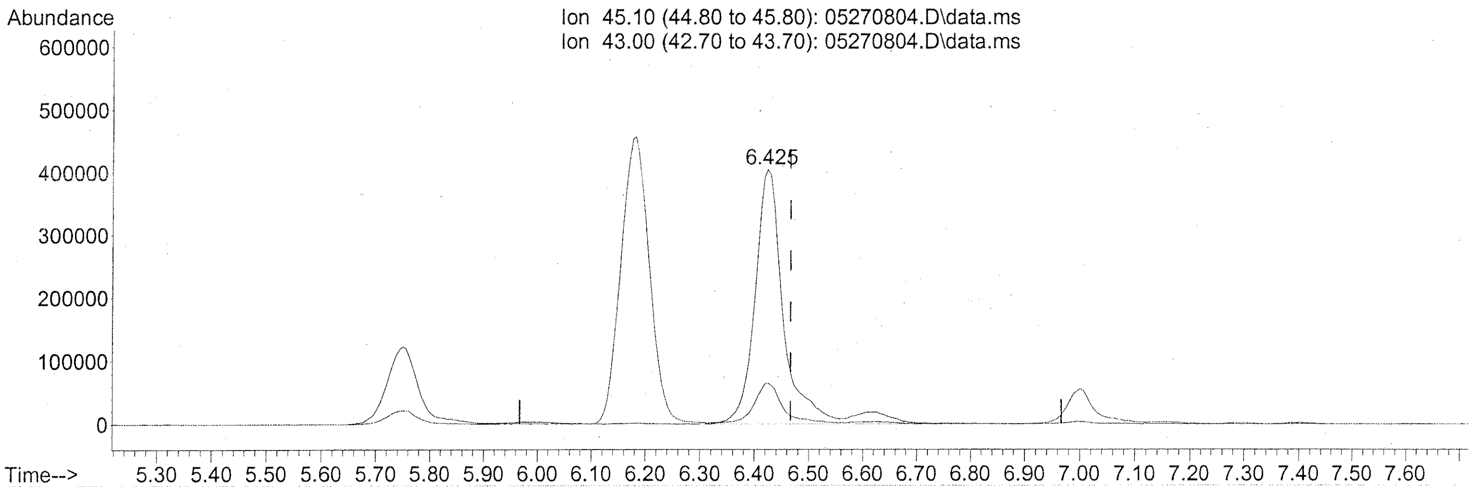
tailing

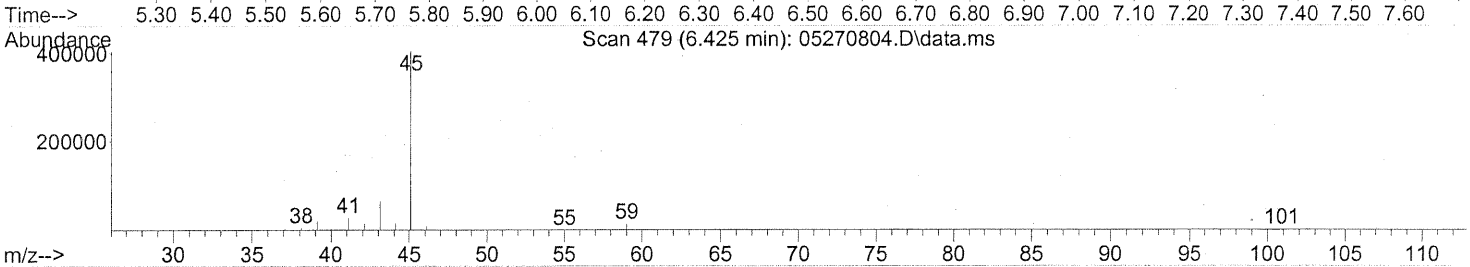
689

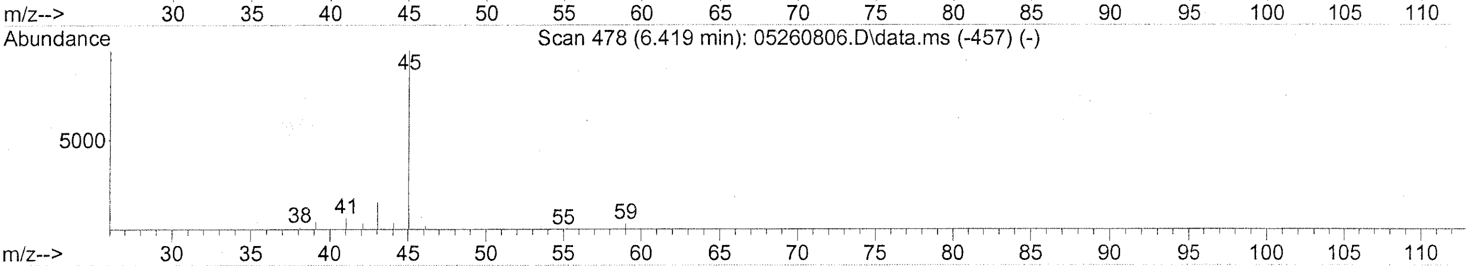
Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22 pm
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 14:17:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







TIC: 05270804.D\data.ms

(15) Isopropanol (T)

6.425min (-0.042) 24.34ng m

response 1555358

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.49
0.00	0.00	0.00
0.00	0.00	0.00

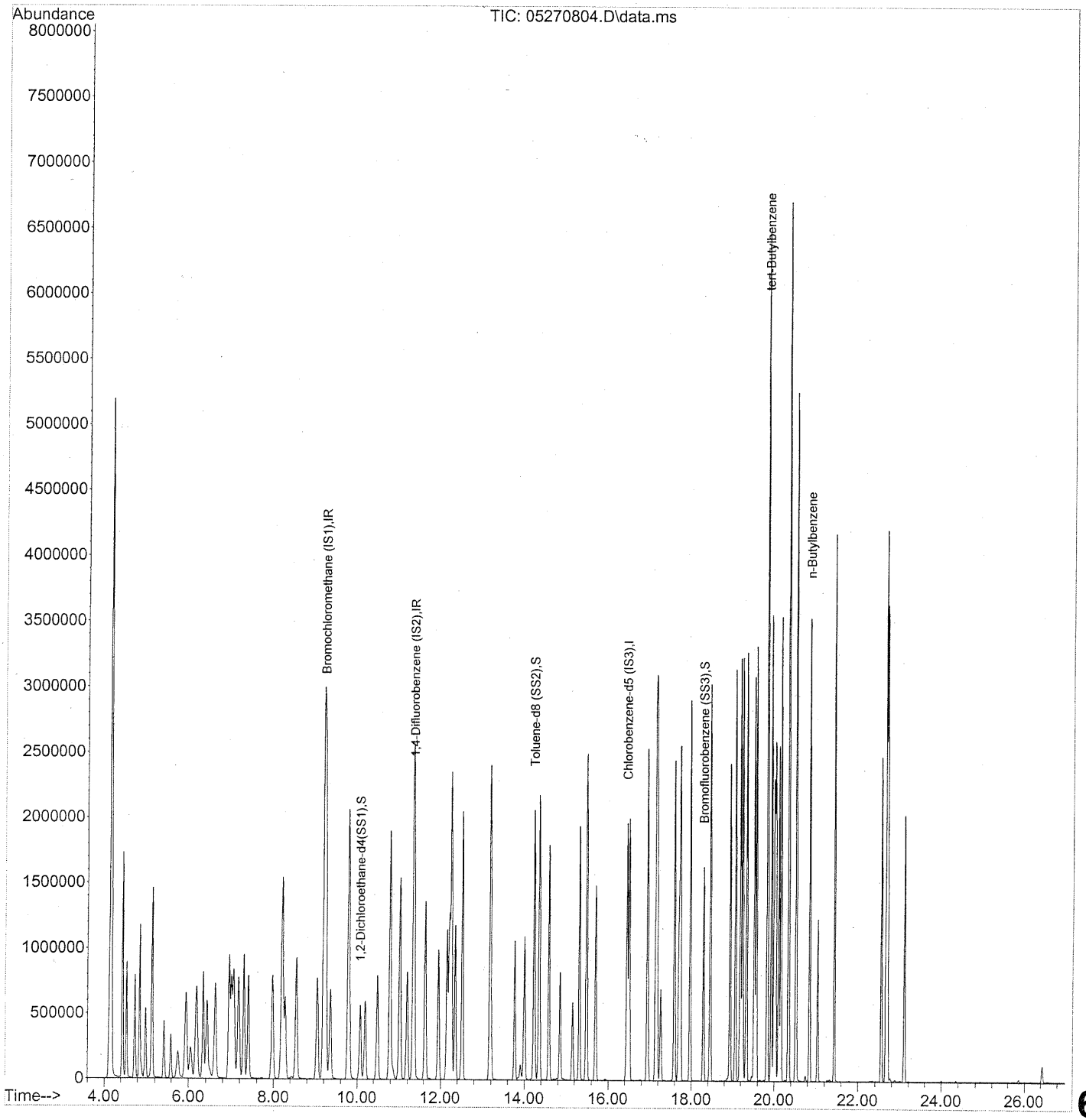
added tailing
WA 5/28/08

WS 5/29/08

690

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:39:14 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270804.D
Acq On : 27 May 2008 12:22
Operator : WA
Sample : 25ng TO-15 LCS STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:39:14 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	406006	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.37	114	1679145	25.000	ng		-0.01
4) Chlorobenzene-d5 (IS3)	16.45	82	677576	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.07	65	567327	24.437	ng		-0.02
Spiked Amount 25.000			Recovery = 97.76%				
5) Toluene-d8 (SS2)	14.24	98	1708167	24.453	ng		-0.01
Spiked Amount 25.000			Recovery = 97.80%				
6) Bromofluorobenzene (SS3)	18.29	174	594352	25.591	ng		0.00
Spiked Amount 25.000			Recovery = 102.36%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.84	119	2172949	25.756	ng		97
8) n-Butylbenzene	20.85	91	2111864	26.279	ng	#	94

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
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	**24.3**	**95**	69-117	
74-87-3	Chloromethane	24.5	**25.5**	**104**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**26.5**	**102**	58-133	
75-01-4	Vinyl Chloride	24.8	**24.8**	**100**	61-127	
74-83-9	Bromomethane	25.0	**25.6**	**102**	67-124	
75-00-3	Chloroethane	25.0	**24.3**	**97**	69-123	
64-17-5	Ethanol	23.8	**26.8**	**113**	56-137	
67-64-1	Acetone	26.8	**26.7**	**100**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**26.6**	**101**	71-120	
107-13-1	Acrylonitrile	25.5	**27.6**	**108**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**28.8**	**104**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**27.3**	**106**	35-141	
75-09-2	Methylene Chloride	27.8	**27.4**	**99**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**30.5**	**114**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**28.4**	**102**	63-129	
75-15-0	Carbon Disulfide	25.0	**24.4**	**98**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**27.6**	**104**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**28.2**	**105**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.6**	**103**	72-119	
108-05-4	Vinyl Acetate	25.3	**30.7**	**121**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**28.1**	**104**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.8**	**103**	74-117	
108-20-3	Diisopropyl Ether	26.3	**27.3**	**104**	70-131	
67-66-3	Chloroform	29.8	**32.3**	**108**	72-113	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
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	**27.5**	**106**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**27.4**	**104**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**27.5**	**103**	78-114	
71-43-2	Benzene	27.0	**25.4**	**94**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**27.6**	**106**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**27.5**	**106**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**27.4**	**103**	78-117	
75-27-4	Bromodichloromethane	27.8	**29.8**	**107**	77-120	
79-01-6	Trichloroethene	27.3	**28.4**	**104**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.4**	**107**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.4**	**110**	79-128	
142-82-5	n-Heptane	26.8	**27.8**	**104**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**27.2**	**109**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.9**	**98**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**30.2**	**108**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.9**	**106**	80-117	
108-88-3	Toluene	26.5	**25.6**	**97**	76-116	
591-78-6	2-Hexanone	26.3	**24.2**	**92**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.8**	**103**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**26.4**	**100**	79-122	
111-65-9	n-Octane	26.0	**26.2**	**101**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.8**	**99**	77-118	
108-90-7	Chlorobenzene	26.5	**25.9**	**98**	78-117	

Verified By: CA Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080528-LCS

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

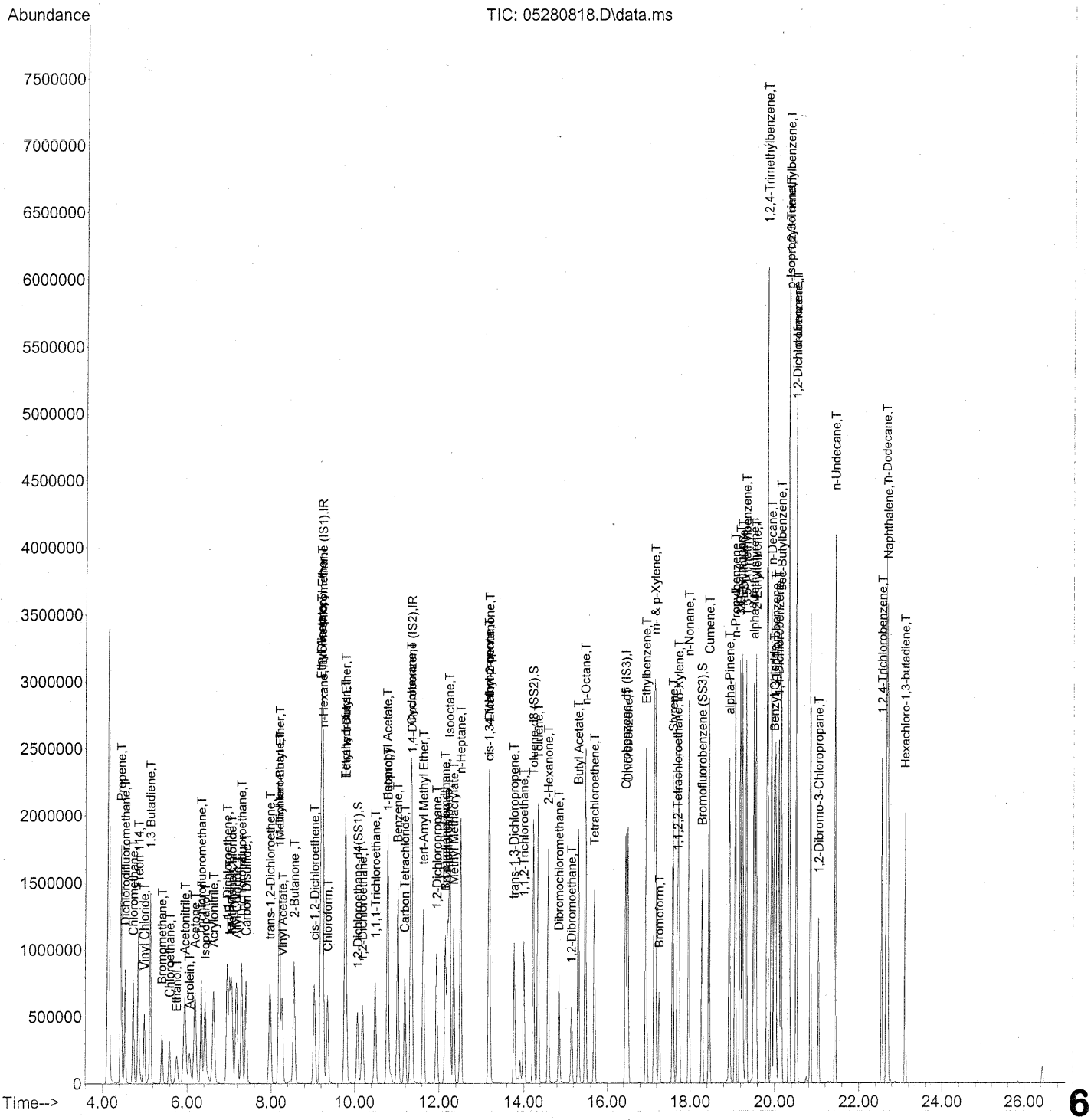
Date Collected: NA
Date Received: NA
Date Analyzed: 5/28/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**25.9**	**98**	79-116	
179601-23-1	m,p-Xylenes	62.5	**61.1**	**98**	80-117	
75-25-2	Bromoform	31.3	**35.2**	**112**	77-128	
100-42-5	Styrene	26.3	**27.0**	**103**	80-124	
95-47-6	o-Xylene	29.8	**29.1**	**98**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.3**	**98**	79-120	
98-82-8	Cumene	27.0	**27.0**	**100**	81-119	
103-65-1	n-Propylbenzene	26.3	**26.4**	**100**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.5**	**100**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.9**	**100**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.7**	**105**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**26.0**	**100**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.9**	**108**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.5**	**100**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**26.5**	**101**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.9**	**100**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.9**	**104**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.8**	**100**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**28.3**	**110**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**28.8**	**111**	75-138	
91-20-3	Naphthalene	26.3	**28.0**	**106**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**27.6**	**105**	72-128	
98-06-6	tert-Butylbenzene	26.3	**26.1**	**99**	70-130	
104-51-8	n-Butylbenzene	26.8	**27.0**	**101**	70-130	

Verified By: _____ Date: 6/5/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:34:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:34:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	377949	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.36	114	1568486	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	642257	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	542466	25.101	ng		-0.02
Spiked Amount 25.000			Recovery =	100.40%			
57) Toluene-d8 (SS2)	14.24	98	1610210	24.318	ng		-0.01
Spiked Amount 25.000			Recovery =	97.28%			
73) Bromofluorobenzene (SS3)	18.29	174	573091	26.032	ng		0.00
Spiked Amount 25.000			Recovery =	104.12%			
Target Compounds							Qvalue
2) Propene	4.43	42	810350	27.698	ng		93
3) Dichlorodifluoromethane	4.54	85	858468	24.259	ng		98
4) Chloromethane	4.73	50	1133689	25.498	ng		99
5) Freon 114	4.85	135	524466	26.517	ng		98
6) Vinyl Chloride	4.98	62	702653	24.815	ng		94
7) 1,3-Butadiene	5.13	54	853110	33.054	ng	#	86
8) Bromomethane	5.41	94	373082	25.561	ng		97
9) Chloroethane	5.59	64	354980	24.260	ng		96
10) Ethanol	5.76	45	531279m	26.763	ng		
11) Acetonitrile	5.95	41	1391280	24.314	ng		98
12) Acrolein	6.05	56	387394	27.066	ng		100
13) Acetone	6.18	58	527198	26.696	ng	#	78
14) Trichlorofluoromethane	6.33	101	880272	26.573	ng		100
15) Isopropanol	6.43	45	1551710m	26.085	ng		
16) Acrylonitrile	6.63	53	991012	27.609	ng		98
17) 1,1-Dichloroethene	6.95	96	445968	28.848	ng		92
18) tert-Butanol	7.00	59	1512400m	27.269	ng		
19) Methylene Chloride	7.05	84	417091	27.383	ng	#	39
20) Allyl Chloride	7.17	41	1069275	30.454	ng		82
21) Trichlorotrifluoroethane	7.29	151	456712	28.373	ng		85
22) Carbon Disulfide	7.40	76	1492857	24.367	ng		100
23) trans-1,2-Dichloroethene	7.97	61	840540	27.606	ng		92
24) 1,1-Dichloroethane	8.19	63	910976	28.175	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1305134	27.646	ng		79
26) Vinyl Acetate	8.27	86	99319	30.707	ng	#	1
27) 2-Butanone	8.55	72	289865	28.074	ng	#	19
28) cis-1,2-Dichloroethene	9.04	61	778003	27.783	ng		95
29) Diisopropyl Ether	9.20	87	370600	27.250	ng	#	41
30) Ethyl Acetate	9.19	61	223036	30.960	ng		86
31) n-Hexane	9.24	57	1174424	27.274	ng		92

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:34:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.35	83	719283	32.251	ng		95
34) Tetrahydrofuran	9.78	72	276617	28.503	ng	#	44
35) Ethyl tert-Butyl Ether	9.79	87	546630	27.461	ng	#	77
36) 1,2-Dichloroethane	10.19	62	699808	27.368	ng		96
38) 1,1,1-Trichloroethane	10.50	97	733978	27.486	ng		94
39) Isopropyl Acetate	10.78	61	365633	27.571	ng	#	64
40) 1-Butanol	10.79	56	633928	24.555	ng		97
41) Benzene	11.02	78	1680184	25.406	ng		98
42) Carbon Tetrachloride	11.19	117	749891	27.646	ng		99
43) Cyclohexane	11.34	84	659703	25.515	ng	#	46
44) tert-Amyl Methyl Ether	11.63	73	1209590	27.470	ng		77
45) 1,2-Dichloropropane	11.95	63	534941	27.393	ng		97
46) Bromodichloromethane	12.15	83	579680	29.821	ng		93
47) Trichloroethene	12.21	130	584972	28.418	ng		100
48) 1,4-Dioxane	12.15	88	362822	29.369	ng	#	69
49) Isooctane	12.25	57	2884071	27.279	ng		93
50) Methyl Methacrylate	12.35	100	201800	28.441	ng	#	73
51) n-Heptane	12.52	71	439392	27.835	ng	#	50
52) cis-1,3-Dichloropropene	13.17	75	669112	27.186	ng		100
53) 4-Methyl-2-pentanone	13.19	58	618997	26.922	ng		85
54) trans-1,3-Dichloropropene	13.77	75	686080	30.240	ng		98
55) 1,1,2-Trichloroethane	14.00	97	449169	27.926	ng		90
58) Toluene	14.35	91	1919975	25.563	ng		98
59) 2-Hexanone	14.59	43	1717458	24.213	ng		99
60) Dibromochloromethane	14.85	129	617133	27.844	ng		99
61) 1,2-Dibromoethane	15.15	107	544901	26.426	ng		99
62) Butyl Acetate	15.31	43	1905130	26.712	ng		92
63) n-Octane	15.48	57	595179	26.207	ng		95
64) Tetrachloroethene	15.70	166	573691	25.824	ng		99
65) Chlorobenzene	16.50	112	1388320	25.940	ng		100
66) Ethylbenzene	16.94	91	2214522	25.939	ng		93
67) m- & p-Xylene	17.16	91	3458403	61.142	ng		92
68) Bromoform	17.26	173	452414	35.158	ng		100
69) Styrene	17.60	104	1473046	26.958	ng		95
70) o-Xylene	17.73	91	1763157	29.124	ng		93
71) n-Nonane	17.97	43	1533658	25.670	ng		94
72) 1,1,2,2-Tetrachloroethane	17.70	83	735670	29.345	ng		92
74) Cumene	18.45	105	2382283	27.029	ng		95
75) alpha-Pinene	18.93	93	1116427	26.997	ng		93
76) n-Propylbenzene	19.07	91	2703182	26.393	ng		93
77) 3-Ethyltoluene	19.19	105	2433222	25.166	ng		95
78) 4-Ethyltoluene	19.24	105	2315161	26.539	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	2003471	25.903	ng		91

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 10:34:49 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

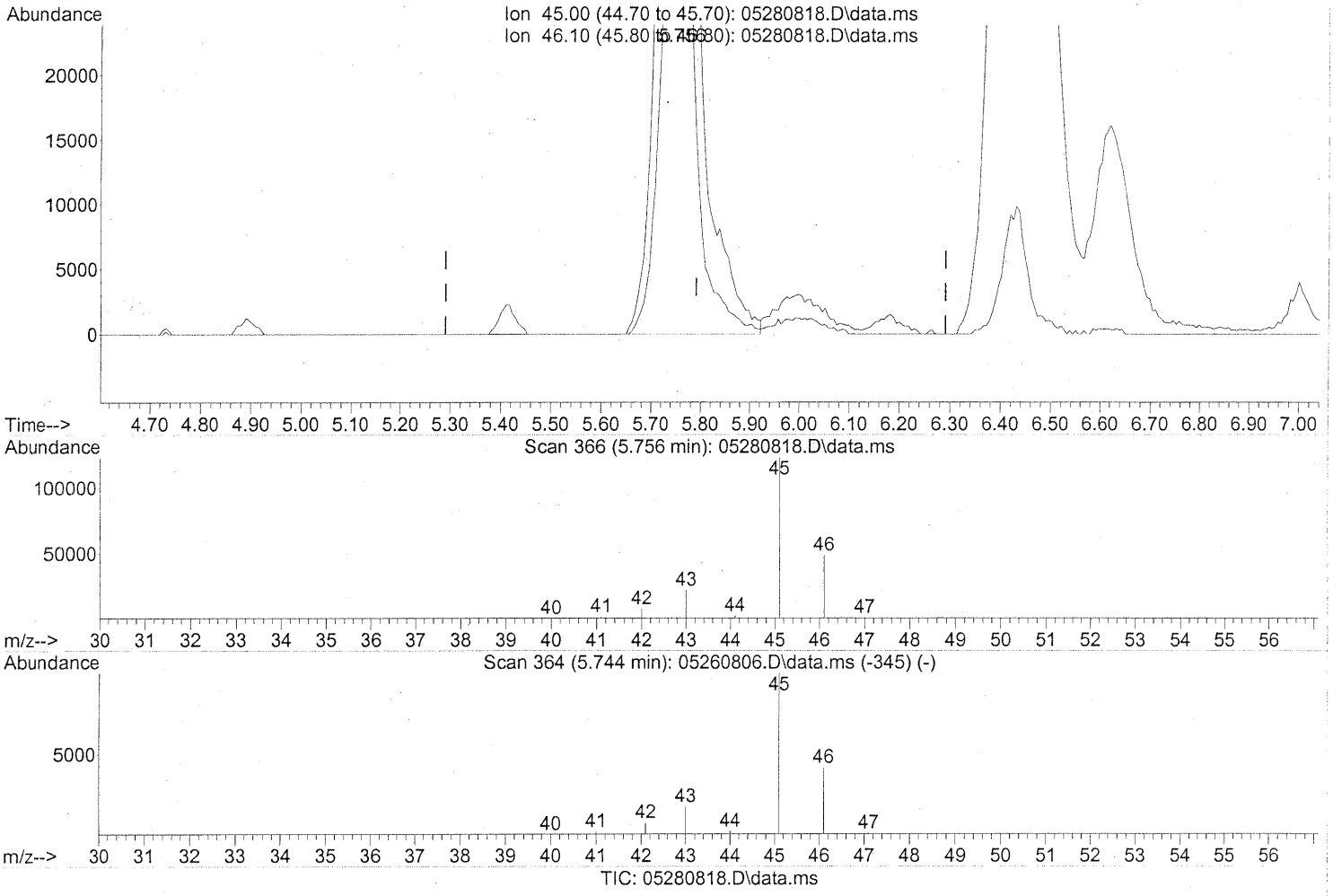
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1162342	26.726	ng		98
81) 2-Ethyltoluene	19.57	105	2360798	25.182	ng		93
82) 1,2,4-Trimethylbenzene	19.84	105	2034607	25.983	ng		91
83) n-Decane	19.93	57	1491975	26.914	ng		79
84) Benzyl Chloride	20.00	91	1687191	27.886	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1266979	25.536	ng		99
86) 1,4-Dichlorobenzene	20.10	146	1274691	26.465	ng		99
87) sec-Butylbenzene	20.16	105	2729979	26.874	ng		95
88) p-Isopropyltoluene	20.34	119	2650321	29.862	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	2142839	28.501	ng		89
90) 1,2-Dichlorobenzene	20.52	146	1176838	25.839	ng		100
91) d-Limonene	20.52	68	643475	26.667	ng		87
92) 1,2-Dibromo-3-Chloropr...	21.04	157	413773	28.264	ng		82
93) n-Undecane	21.44	57	1611573	27.720	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	236954	28.761	ng	#	86
95) Naphthalene	22.69	128	3179886	27.950	ng		99
96) n-Dodecane	22.66	57	1598202	28.213	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	377344	27.567	ng		100

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280818.D\data.ms

(10) Ethanol (T)

5.756min (-0.035) 25.72ng

response 510483

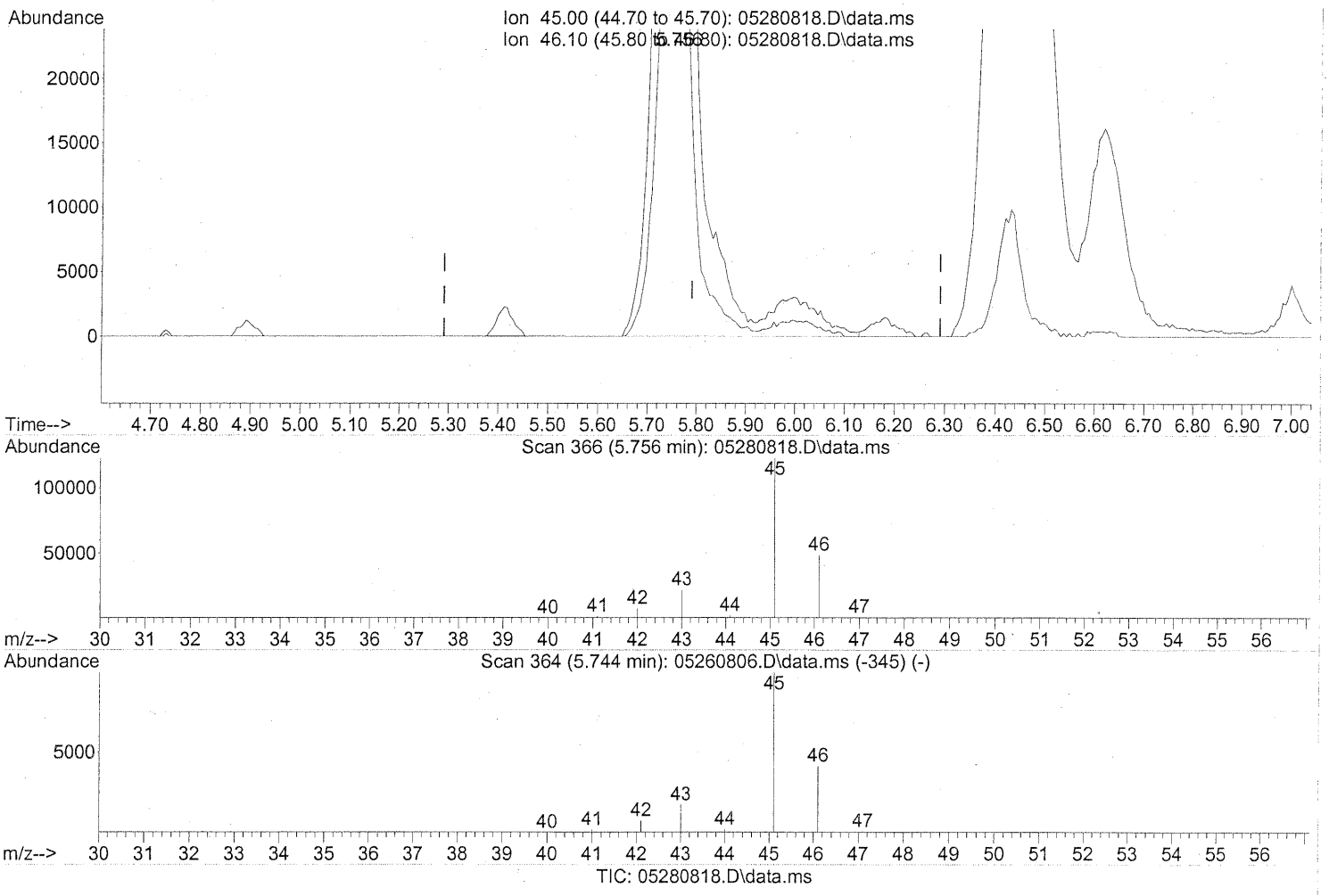
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.92
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

700

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.756min (-0.035) 26.76ng m

response 531279

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.35
0.00	0.00	0.00
0.00	0.00	0.00

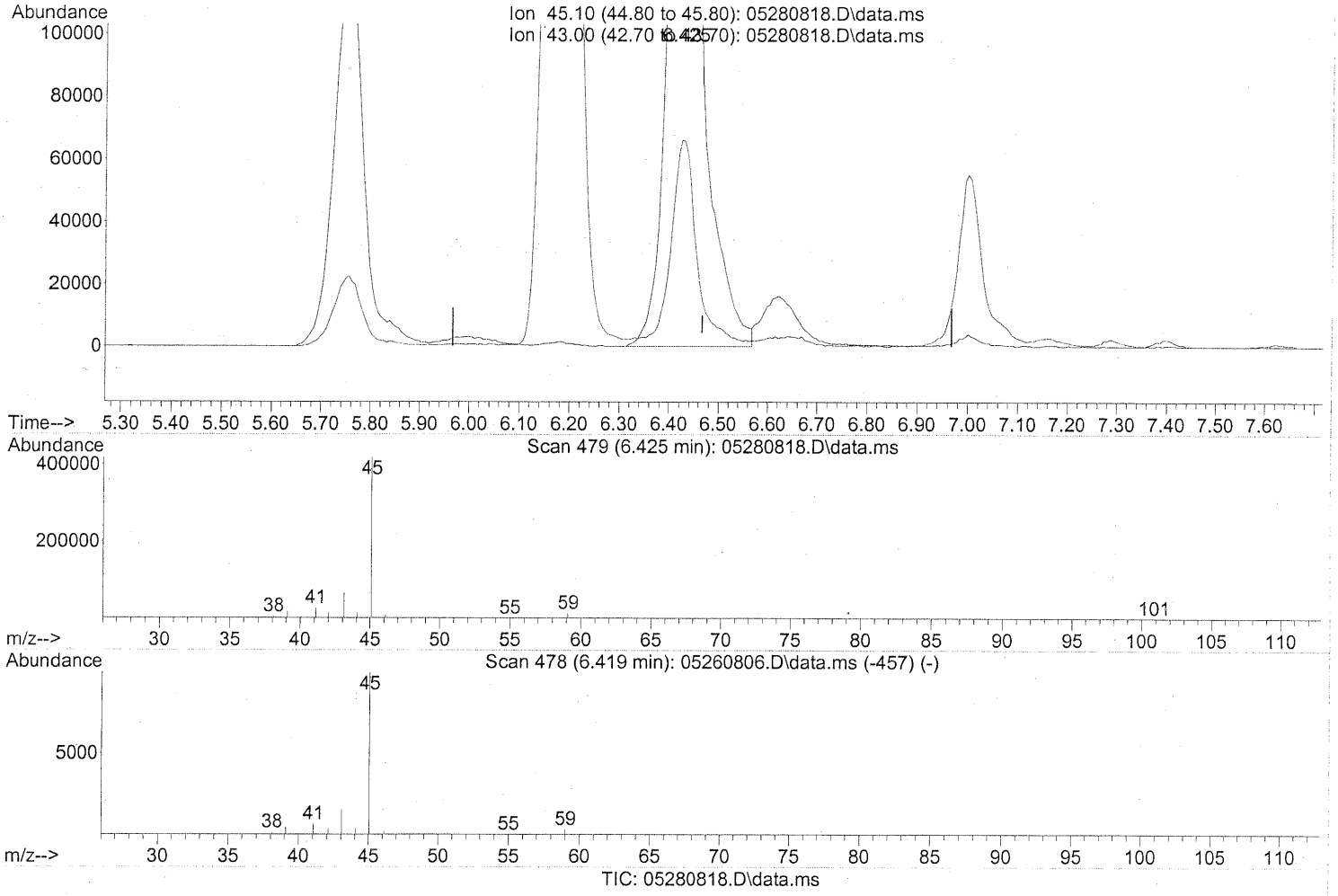
int. whole peaks

5/29/08

WA 5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280818.D\data.ms

(15) Isopropanol (T)

6.425min (-0.042) 24.72ng

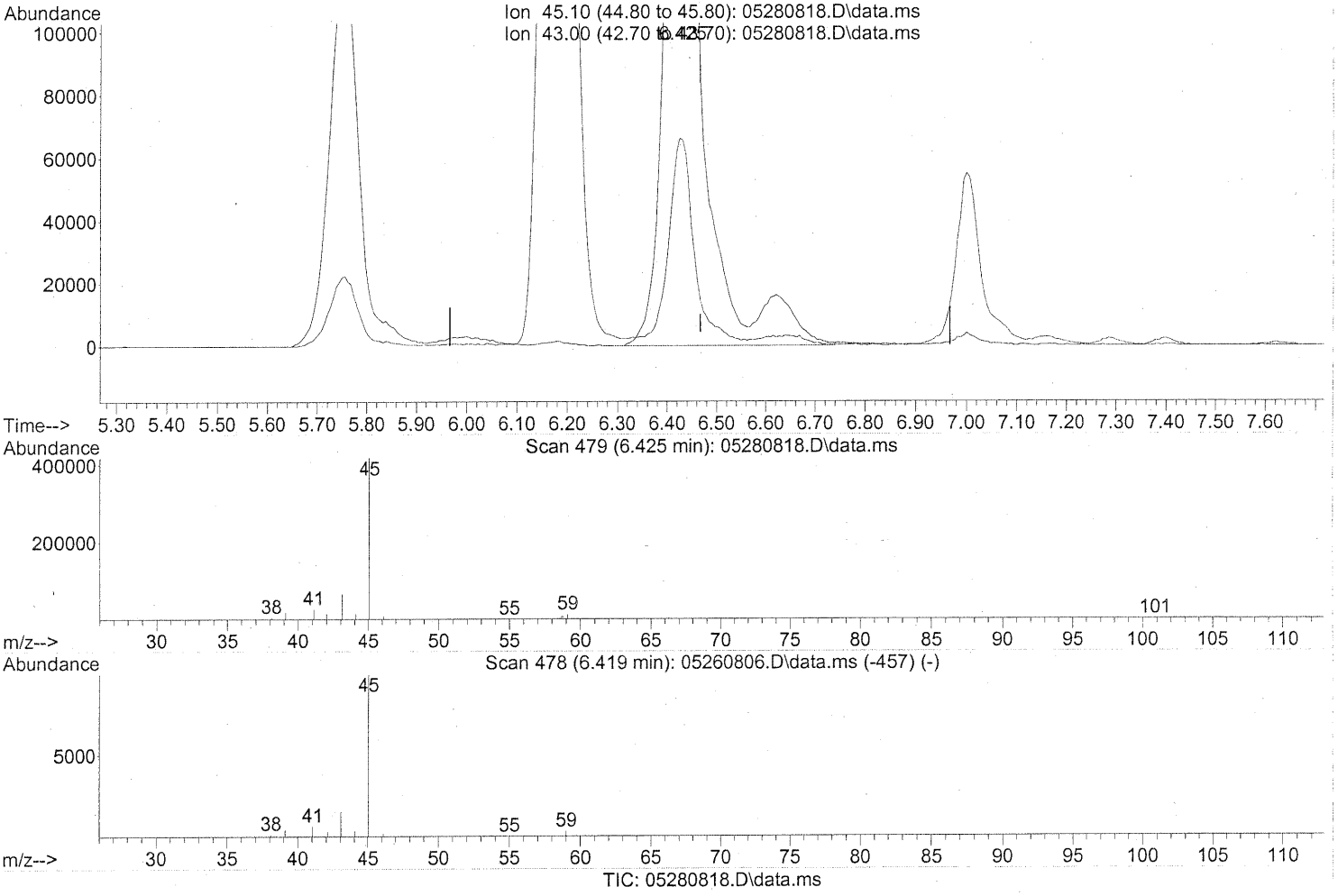
response 1470820

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.28
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.425min (-0.042) 26.08ng m

response 1551710

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.43
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

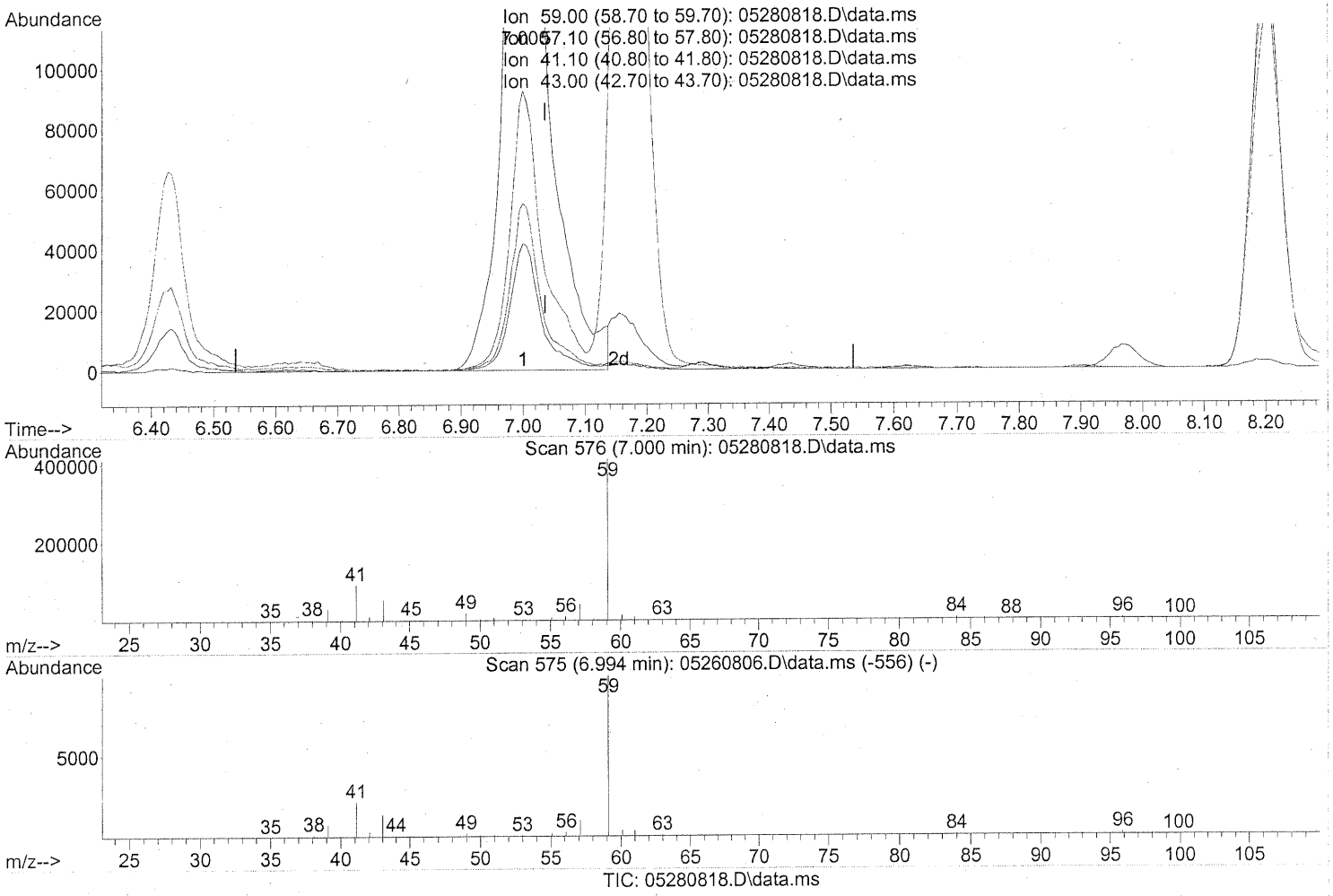
JDA 5/29/08

5/29/08

703

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280818.D\data.ms

(18) tert-Butanol (T)

7.000min (-0.036) 26.11ng

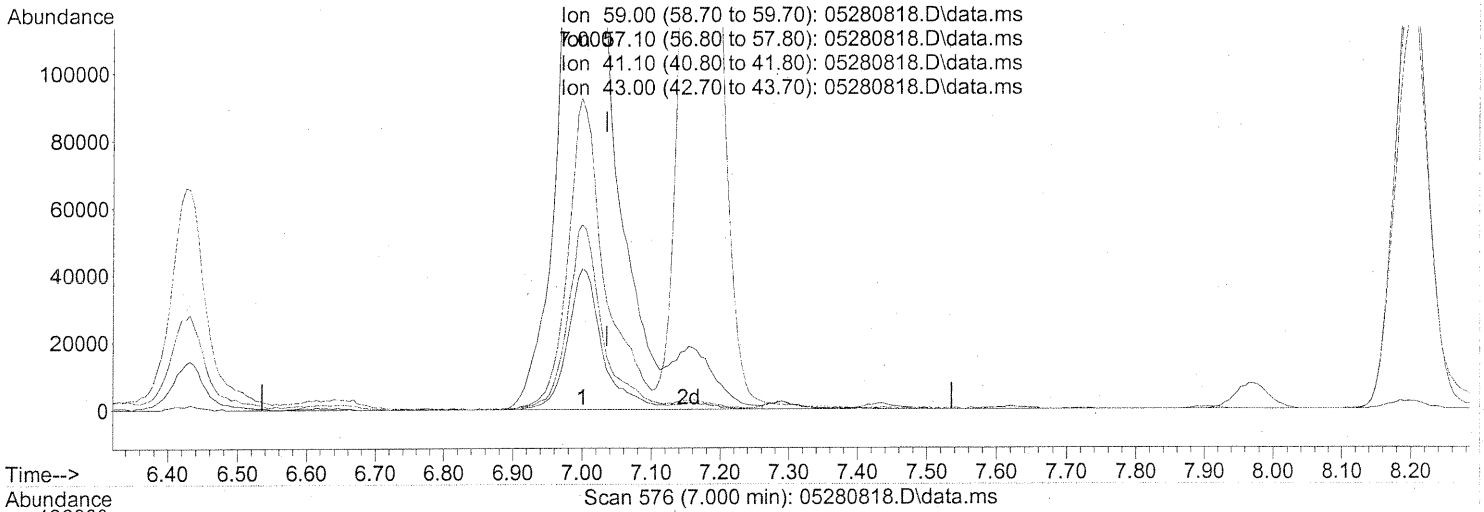
response 1448339

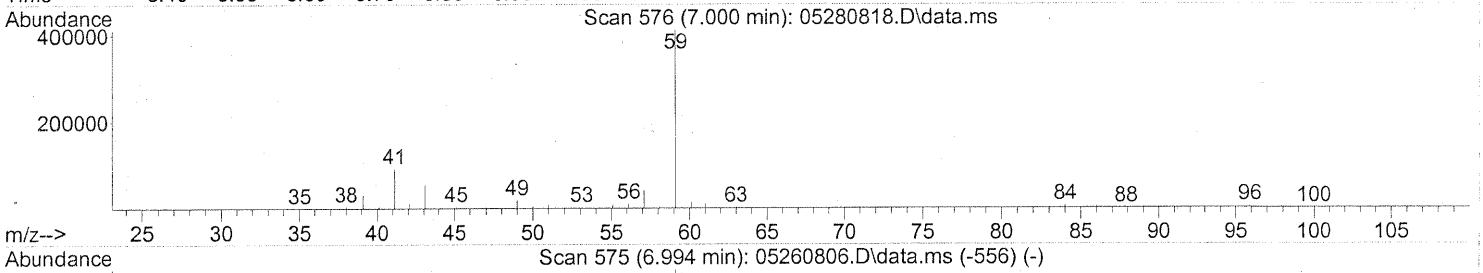
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	10.11
41.10	21.90	23.77
43.00	17.20	13.46

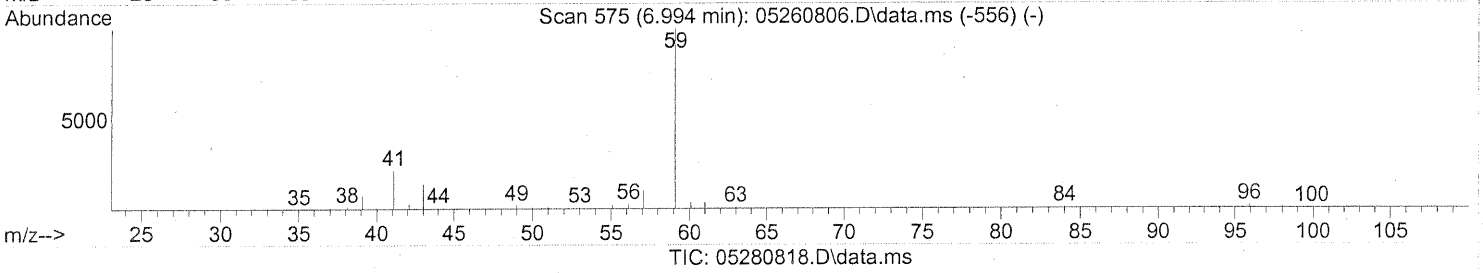
Split peaks

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22 am
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 07:04:08 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration







(18) tert-Butanol (T)

7.000min (-0.036) 27.27ng m

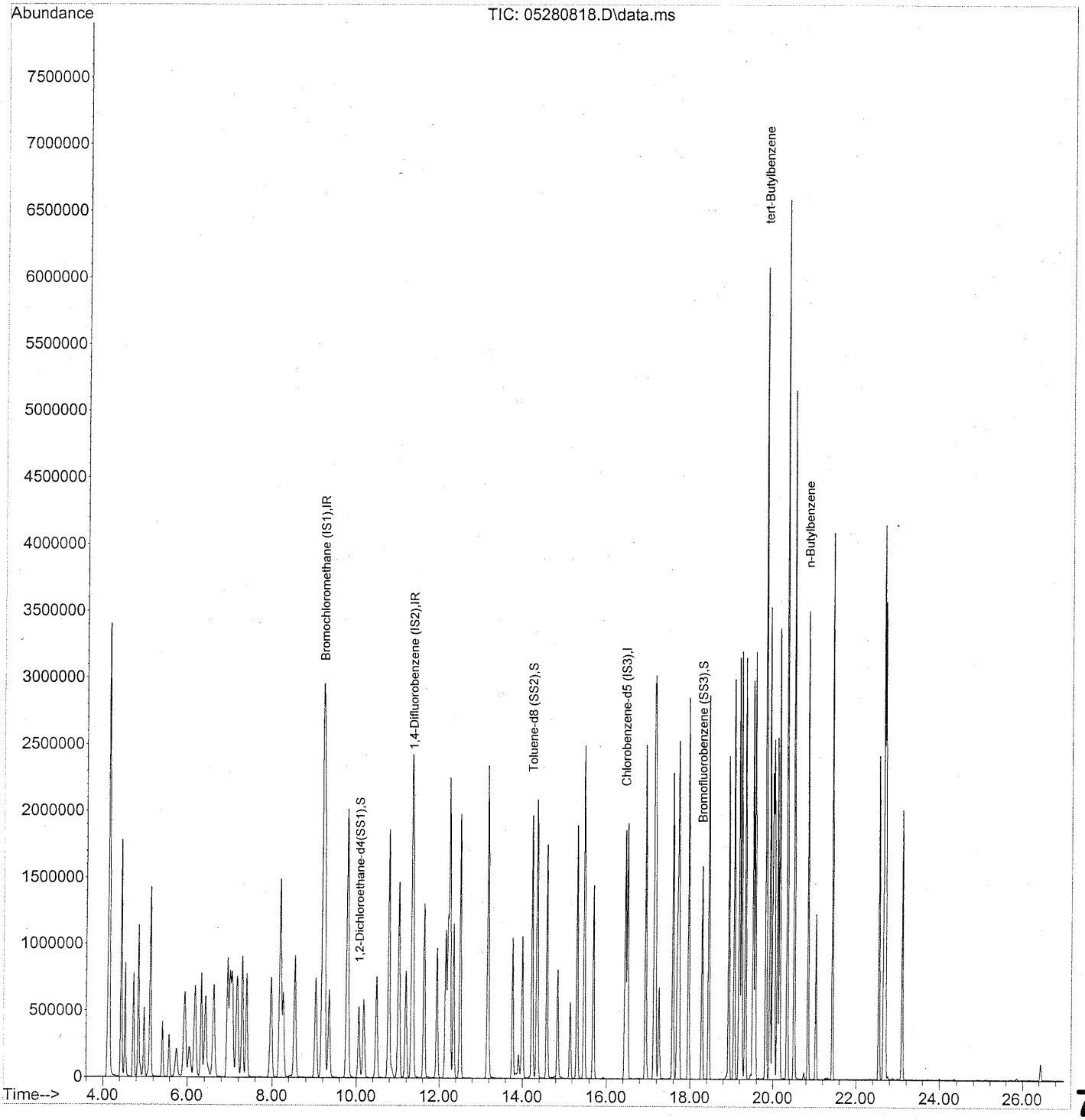
response 1512400

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.68
41.10	21.90	22.76
43.00	17.20	12.89

int. whole peaks
RA 5/29/08
WA 5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 15:06:49 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280818.D
Acq On : 29 May 2008 6:22
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 15:06:49 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	377949	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.36	114	1568486	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	642257	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.07	65	542466	25.101	ng		-0.02
Spiked Amount 25.000			Recovery = 100.40%				
5) Toluene-d8 (SS2)	14.24	98	1610210	24.318	ng		-0.01
Spiked Amount 25.000			Recovery = 97.28%				
6) Bromofluorobenzene (SS3)	18.29	174	573091	26.032	ng		0.00
Spiked Amount 25.000			Recovery = 104.12%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.84	119	2085449	26.078	ng		97
8) n-Butylbenzene	20.84	91	2054881	26.976	ng	#	94

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
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	**24.1**	**95**	69-117	
74-87-3	Chloromethane	24.5	**25.5**	**104**	53-131	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	26.0	**26.4**	**102**	58-133	
75-01-4	Vinyl Chloride	24.8	**24.3**	**98**	61-127	
74-83-9	Bromomethane	25.0	**25.9**	**104**	67-124	
75-00-3	Chloroethane	25.0	**24.3**	**97**	69-123	
64-17-5	Ethanol	23.8	**26.8**	**113**	56-137	
67-64-1	Acetone	26.8	**26.3**	**98**	63-116	
75-69-4	Trichlorofluoromethane	26.3	**26.6**	**101**	71-120	
107-13-1	Acrylonitrile	25.5	**27.6**	**108**	74-129	
75-35-4	1,1-Dichloroethene	27.8	**28.8**	**104**	77-116	
75-65-0	2-Methyl-2-Propanol (tert-Butyl Alcohol)	25.8	**27.1**	**105**	35-141	
75-09-2	Methylene Chloride	27.8	**27.4**	**99**	71-113	
107-05-1	3-Chloro-1-propene (Allyl Chloride)	26.8	**30.7**	**115**	75-127	
76-13-1	Trichlorotrifluoroethane	27.8	**27.9**	**100**	63-129	
75-15-0	Carbon Disulfide	25.0	**24.0**	**96**	72-122	
156-60-5	trans-1,2-Dichloroethene	26.5	**27.5**	**104**	74-118	
75-34-3	1,1-Dichloroethane	26.8	**28.1**	**105**	74-118	
1634-04-4	Methyl tert-Butyl Ether	26.8	**27.5**	**103**	72-119	
108-05-4	Vinyl Acetate	25.3	**29.7**	**117**	32-163	
78-93-3	2-Butanone (MEK)	27.0	**28.2**	**104**	71-122	
156-59-2	cis-1,2-Dichloroethene	27.0	**27.8**	**103**	74-117	
108-20-3	Diisopropyl Ether	26.3	**27.2**	**103**	70-131	
67-66-3	Chloroform	29.8	**31.9**	**107**	72-113	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
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	**27.3**	**105**	74-123	
107-06-2	1,2-Dichloroethane	26.3	**27.6**	**105**	72-117	
71-55-6	1,1,1-Trichloroethane	26.8	**27.6**	**103**	78-114	
71-43-2	Benzene	27.0	**25.2**	**93**	73-111	
56-23-5	Carbon Tetrachloride	26.0	**27.4**	**105**	78-126	
994-05-8	tert-Amyl Methyl Ether	26.0	**27.3**	**105**	81-118	
78-87-5	1,2-Dichloropropane	26.5	**27.3**	**103**	78-117	
75-27-4	Bromodichloromethane	27.8	**29.6**	**106**	77-120	
79-01-6	Trichloroethene	27.3	**28.1**	**103**	80-116	
123-91-1	1,4-Dioxane	27.5	**29.3**	**107**	79-122	
80-62-6	Methyl Methacrylate	25.8	**28.9**	**112**	79-128	
142-82-5	n-Heptane	26.8	**27.4**	**102**	77-117	
10061-01-5	cis-1,3-Dichloropropene	25.0	**27.1**	**108**	78-112	
108-10-1	4-Methyl-2-pentanone	27.5	**26.9**	**98**	78-128	
10061-02-6	trans-1,3-Dichloropropene	28.0	**30.2**	**108**	81-121	
79-00-5	1,1,2-Trichloroethane	26.3	**27.6**	**105**	80-117	
108-88-3	Toluene	26.5	**25.1**	**95**	76-116	
591-78-6	2-Hexanone	26.3	**23.9**	**91**	69-131	
124-48-1	Dibromochloromethane	27.0	**27.3**	**101**	80-128	
106-93-4	1,2-Dibromoethane	26.3	**25.8**	**98**	79-122	
111-65-9	n-Octane	26.0	**25.9**	**100**	78-122	
127-18-4	Tetrachloroethene	26.0	**25.4**	**98**	77-118	
108-90-7	Chlorobenzene	26.5	**25.4**	**96**	78-117	

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

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

CAS Project ID: P0801507
CAS Sample ID: P080529-LCS

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

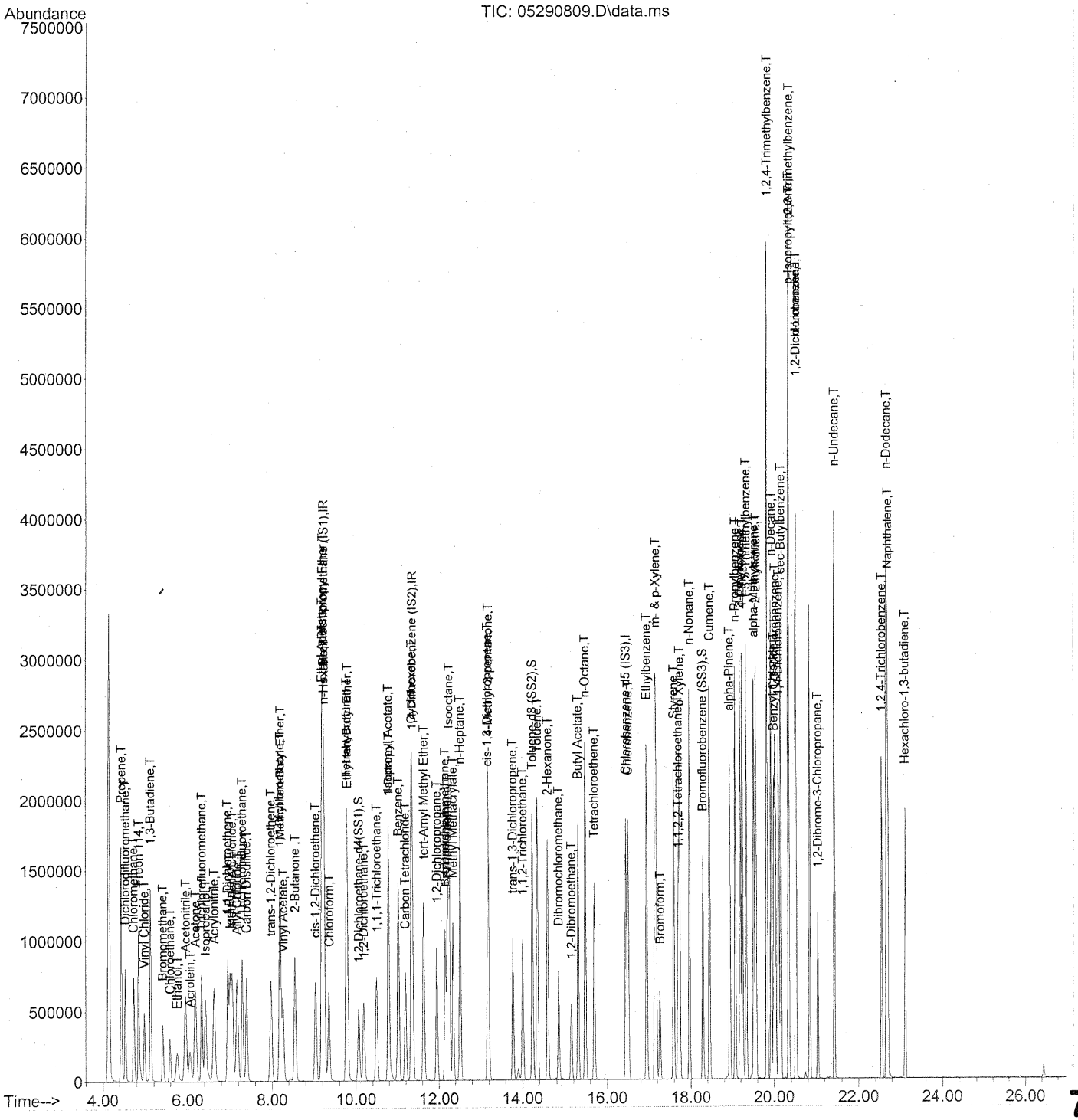
Date Collected: NA
Date Received: NA
Date Analyzed: 5/29/08
Volume(s) Analyzed: NA Liter(s)

CAS #	Compound	Spike Amount ng	Result ng	% Recovery	CAS Acceptance Limits	Data Qualifier
100-41-4	Ethylbenzene	26.3	**25.6**	**97**	79-116	
179601-23-1	m,p-Xylenes	62.5	**59.9**	**96**	80-117	
75-25-2	Bromoform	31.3	**34.2**	**109**	77-128	
100-42-5	Styrene	26.3	**26.6**	**101**	80-124	
95-47-6	o-Xylene	29.8	**28.5**	**96**	80-116	
79-34-5	1,1,2,2-Tetrachloroethane	29.8	**29.0**	**97**	79-120	
98-82-8	Cumene	27.0	**26.5**	**98**	81-119	
103-65-1	n-Propylbenzene	26.3	**25.9**	**98**	82-120	
622-96-8	4-Ethyltoluene	26.5	**26.2**	**99**	80-119	
108-67-8	1,3,5-Trimethylbenzene	26.0	**25.4**	**98**	80-120	
98-83-9	alpha-Methylstyrene	25.5	**26.0**	**102**	54-146	
95-63-6	1,2,4-Trimethylbenzene	26.0	**25.4**	**98**	80-122	
100-44-7	Benzyl Chloride	25.8	**27.4**	**106**	85-131	
541-73-1	1,3-Dichlorobenzene	25.5	**25.1**	**98**	81-117	
106-46-7	1,4-Dichlorobenzene	26.3	**26.0**	**99**	81-119	
135-98-8	sec-Butylbenzene	26.8	**26.4**	**99**	80-124	
99-87-6	4-Isopropyltoluene (p-Cymene)	28.8	**29.2**	**101**	78-124	
95-50-1	1,2-Dichlorobenzene	25.8	**25.2**	**98**	81-122	
96-12-8	1,2-Dibromo-3-chloropropane	25.8	**27.8**	**108**	91-136	
120-82-1	1,2,4-Trichlorobenzene	26.0	**27.9**	**107**	75-138	
91-20-3	Naphthalene	26.3	**27.4**	**104**	76-143	
87-68-3	Hexachlorobutadiene	26.3	**26.9**	**102**	72-128	
98-06-6	tert-Butylbenzene	26.3	**25.7**	**98**	70-130	
104-51-8	n-Butylbenzene	26.8	**26.5**	**99**	70-130	

Verified By: _____ Date: 6/5/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:12:47 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:12:47 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	366705	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.36	114	1518501	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	629252	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	523030	24.944	ng		-0.02
Spiked Amount 25.000			Recovery = 99.76%				
57) Toluene-d8 (SS2)	14.24	98	1544149	23.803	ng		-0.01
Spiked Amount 25.000			Recovery = 95.20%				
73) Bromofluorobenzene (SS3)	18.29	174	569614	26.409	ng		0.00
Spiked Amount 25.000			Recovery = 105.64%				
Target Compounds							Qvalue
2) Propene	4.44	42	800062	28.185	ng		92
3) Dichlorodifluoromethane	4.53	85	827316	24.096	ng		98
4) Chloromethane	4.73	50	1101666	25.537	ng		100
5) Freon 114	4.85	135	507211	26.431	ng		97
6) Vinyl Chloride	4.98	62	667518	24.297	ng		96
7) 1,3-Butadiene	5.13	54	821093	32.789	ng	#	85
8) Bromomethane	5.42	94	366745	25.897	ng		98
9) Chloroethane	5.59	64	344912	24.295	ng		96
10) Ethanol	5.76	45	516624m	26.823	ng		
11) Acetonitrile	5.95	41	1344181	24.212	ng		98
12) Acrolein	6.06	56	371779	26.771	ng		100
13) Acetone	6.19	58	503914	26.299	ng	#	80
14) Trichlorofluoromethane	6.34	101	856168	26.637	ng		100
15) Isopropanol	6.43	45	1463771m	25.361	ng		
16) Acrylonitrile	6.63	53	962564	27.638	ng		98
17) 1,1-Dichloroethene	6.95	96	432684	28.847	ng		93
18) tert-Butanol	7.00	59	1457165	27.079	ng		95
19) Methylene Chloride	7.05	84	404963	27.402	ng	#	39
20) Allyl Chloride	7.17	41	1044895	30.672	ng		81
21) Trichlorotrifluoroethane	7.30	151	435337	27.874	ng		86
22) Carbon Disulfide	7.40	76	1425725	23.985	ng		100
23) trans-1,2-Dichloroethene	7.97	61	813470	27.536	ng		92
24) 1,1-Dichloroethane	8.19	63	881440	28.097	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1259131	27.490	ng		79
26) Vinyl Acetate	8.27	86	93183	29.694	ng	#	1
27) 2-Butanone	8.55	72	282556	28.205	ng	#	16
28) cis-1,2-Dichloroethene	9.04	61	756371	27.838	ng		94
29) Diisopropyl Ether	9.20	87	358524	27.170	ng	#	39
30) Ethyl Acetate	9.19	61	214292	30.659	ng		85
31) n-Hexane	9.24	57	1139259	27.269	ng		92

5/29/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:12:47 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.36	83	689842	31.879	ng		95
34) Tetrahydrofuran	9.78	72	270097	28.685	ng	#	44
35) Ethyl tert-Butyl Ether	9.80	87	527318	27.303	ng	#	76
36) 1,2-Dichloroethane	10.19	62	684232	27.579	ng		96
38) 1,1,1-Trichloroethane	10.50	97	712609	27.564	ng		94
39) Isopropyl Acetate	10.78	61	349023	27.185	ng	#	61
40) 1-Butanol	10.79	56	604552	24.188	ng		99
41) Benzene	11.02	78	1615569	25.233	ng		98
42) Carbon Tetrachloride	11.19	117	719827	27.411	ng		98
43) Cyclohexane	11.34	84	639375	25.543	ng	#	47
44) tert-Amyl Methyl Ether	11.64	73	1163437	27.291	ng		76
45) 1,2-Dichloropropane	11.95	63	516649	27.327	ng		96
46) Bromodichloromethane	12.16	83	557920	29.646	ng		93
47) Trichloroethene	12.21	130	560001	28.100	ng		99
48) 1,4-Dioxane	12.16	88	350390	29.297	ng	#	66
49) Isooctane	12.26	57	2806071	27.415	ng		92
50) Methyl Methacrylate	12.35	100	198495	28.896	ng	#	70
51) n-Heptane	12.52	71	418114	27.359	ng	#	48
52) cis-1,3-Dichloropropene	13.17	75	645175	27.076	ng		100
53) 4-Methyl-2-pentanone	13.19	58	599161	26.917	ng		84
54) trans-1,3-Dichloropropene	13.77	75	663937	30.227	ng		99
55) 1,1,2-Trichloroethane	14.00	97	429286	27.568	ng		90
58) Toluene	14.35	91	1846232	25.089	ng		98
59) 2-Hexanone	14.59	43	1661851	23.913	ng		98
60) Dibromochloromethane	14.85	129	591881	27.256	ng		100
61) 1,2-Dibromoethane	15.15	107	521540	25.815	ng		98
62) Butyl Acetate	15.31	43	1852779	26.515	ng		93
63) n-Octane	15.48	57	576370	25.903	ng		95
64) Tetrachloroethene	15.70	166	551766	25.350	ng		98
65) Chlorobenzene	16.50	112	1329808	25.361	ng		100
66) Ethylbenzene	16.94	91	2138024	25.561	ng		93
67) m- & p-Xylene	17.16	91	3317195	59.857	ng		92
68) Bromoform	17.26	173	431383	34.216	ng		100
69) Styrene	17.59	104	1421350	26.550	ng		94
70) o-Xylene	17.74	91	1690417	28.499	ng		93
71) n-Nonane	17.97	43	1498420	25.598	ng		93
72) 1,1,2,2-Tetrachloroethane	17.70	83	711432	28.964	ng		93
74) Cumene	18.45	105	2289425	26.513	ng		94
75) alpha-Pinene	18.93	93	1071266	26.441	ng		93
76) n-Propylbenzene	19.07	91	2601165	25.922	ng		92
77) 3-Ethyltoluene	19.19	105	2327012	24.565	ng		94
78) 4-Ethyltoluene	19.24	105	2238288	26.188	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	1926240	25.419	ng		91

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

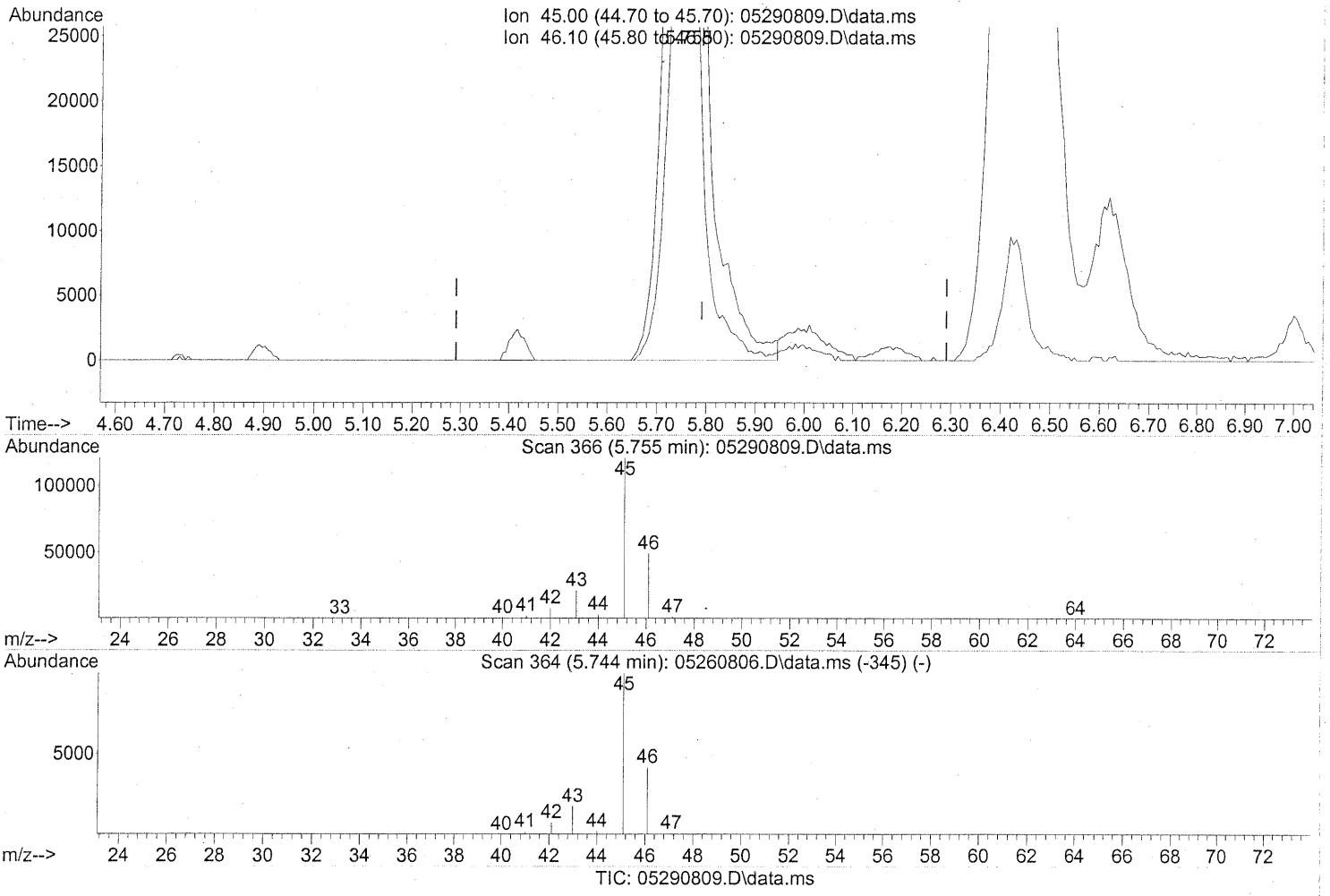
Quant Time: May 29 15:12:47 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1105949	25.955	ng		98
81) 2-Ethyltoluene	19.57	105	2277508	24.795	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	1951302	25.434	ng		90
83) n-Decane	19.93	57	1440566	26.523	ng		79
84) Benzyl Chloride	19.99	91	1623200	27.383	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1220847	25.115	ng		99
86) 1,4-Dichlorobenzene	20.11	146	1225281	25.965	ng		99
87) sec-Butylbenzene	20.16	105	2624696	26.371	ng		95
88) p-Isopropyltoluene	20.34	119	2543207	29.248	ng		94
89) 1,2,3-Trimethylbenzene	20.35	105	2043956	27.748	ng		88
90) 1,2-Dichlorobenzene	20.52	146	1123439	25.176	ng		99
91) d-Limonene	20.52	68	622379	26.325	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	398730	27.799	ng		82
93) n-Undecane	21.43	57	1552159	27.250	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	225602	27.949	ng	#	86
95) Naphthalene	22.70	128	3057607	27.431	ng		99
96) n-Dodecane	22.66	57	1526535	27.505	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	361267	26.938	ng		100

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

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:05:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.755min (-0.036) 26.06ng

response 501953

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.12
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

715

```
Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On    : 29 May 2008   2:36 pm
Operator  : WA
Sample    : 25ng TO-15 LCS
Misc      : S20-05120801/S20-05220809
ALS Vial  : 2   Sample Multiplier: 1

Quant Time: May 29 15:05:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration
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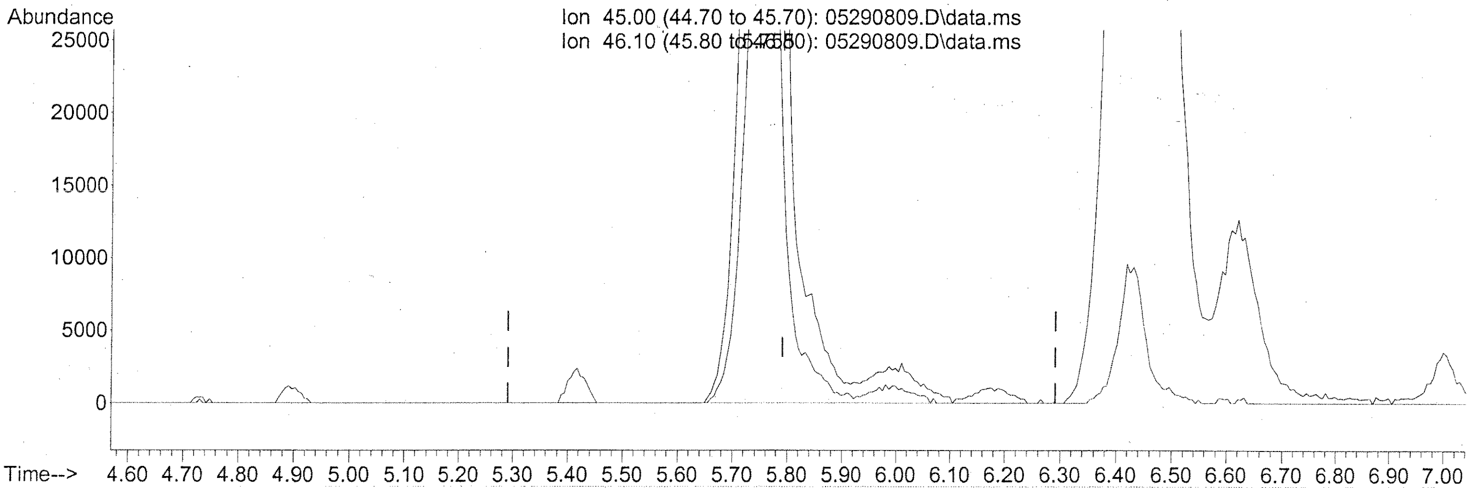
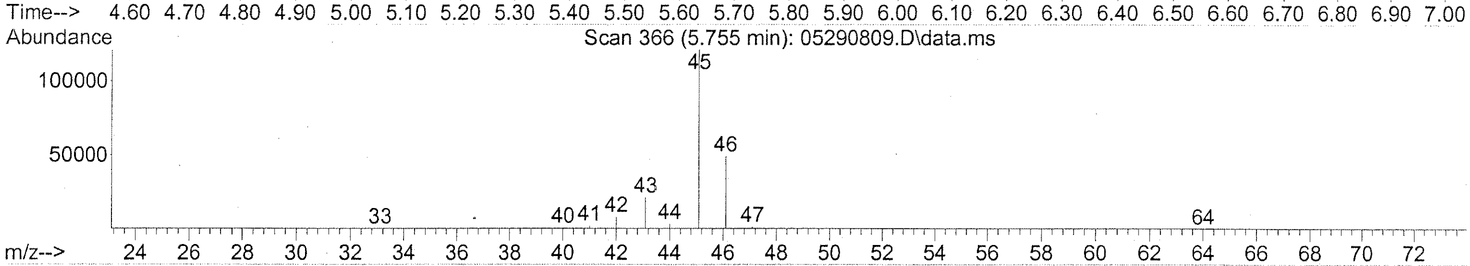
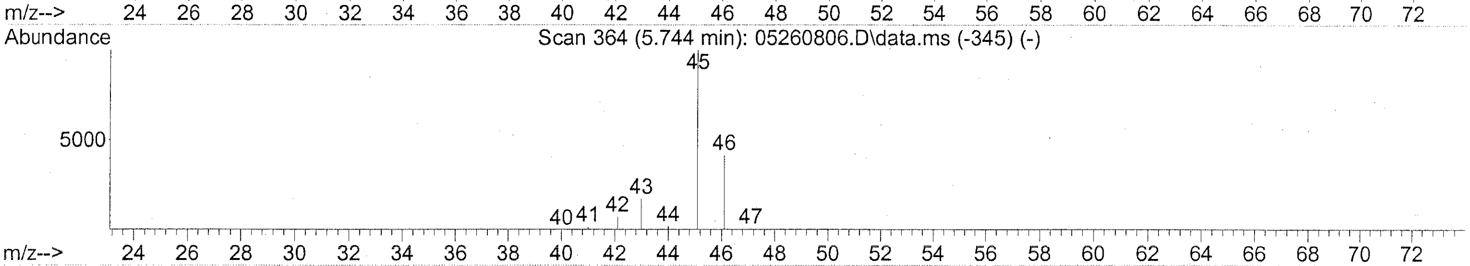






TIC: 05290809.D\data.ms

(10) Ethanol (T)

5.755min (-0.036) 26.82ng m

response 516624

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.98
0.00	0.00	0.00
0.00	0.00	0.00

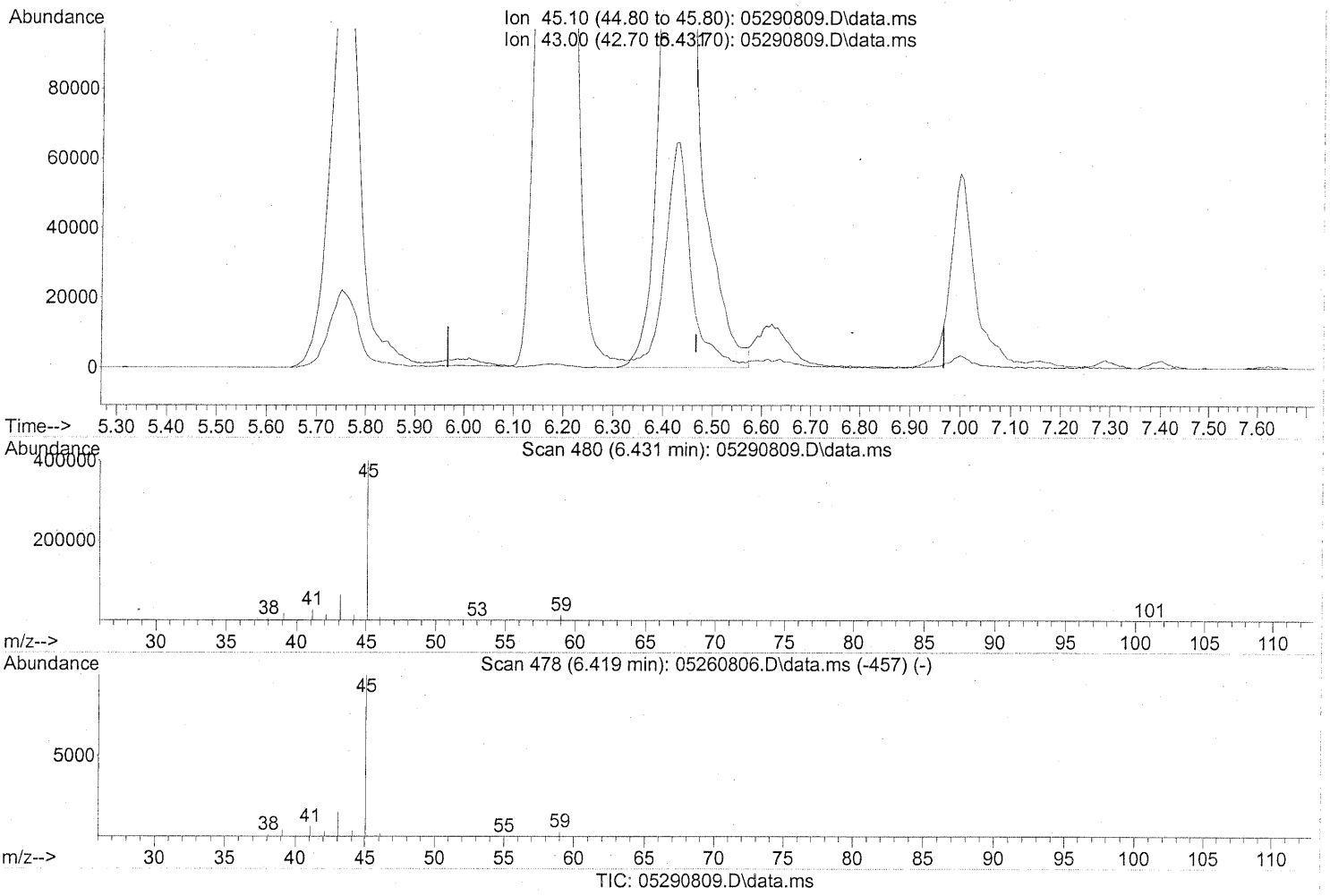
int. whole peaks
WA 5/29/08

WA 5/29/08

716

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:05:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05290809.D\data.ms

(15) Isopropanol (T)

6.431min (-0.036) 24.34ng

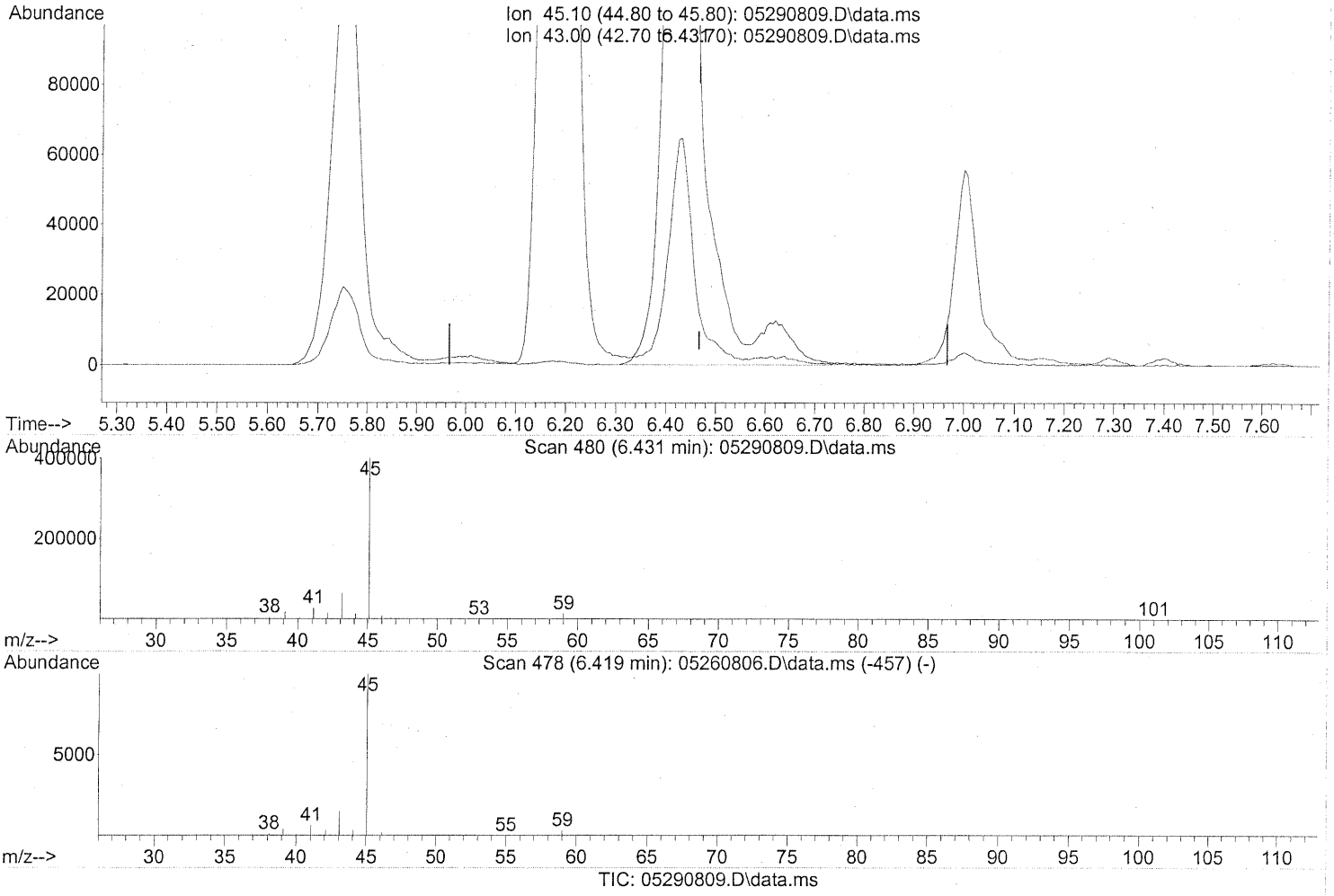
response 1404867

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.58
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 2:36 pm
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 15:05:00 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.431min (-0.036) 25.36ng m

response 1463771

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.91
0.00	0.00	0.00
0.00	0.00	0.00

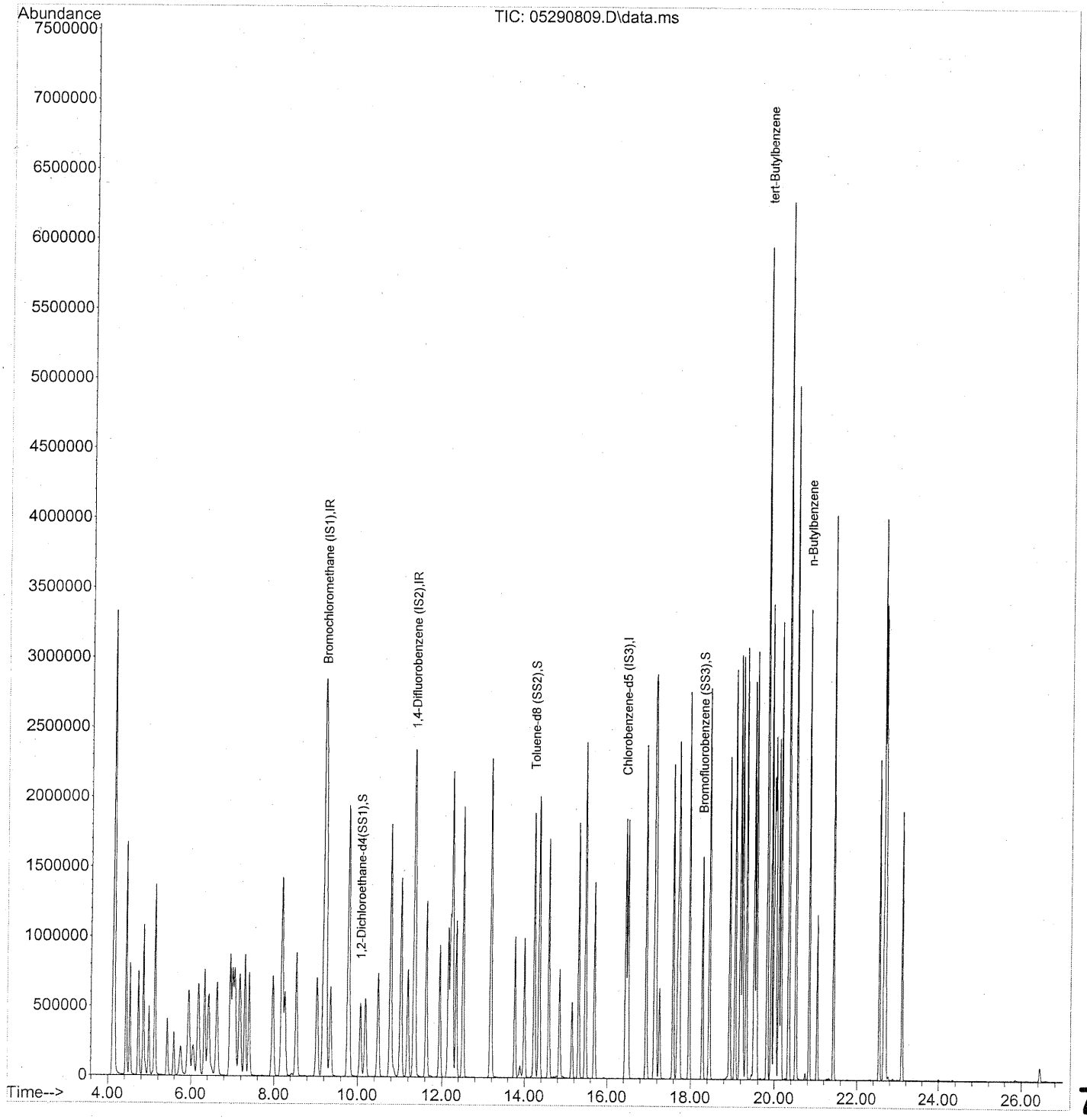
int. whole peaks
JDA 5/29/08

WH 5/29/08

718

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 14:36
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:39:59 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290809.D
Acq On : 29 May 2008 14:36
Operator : WA
Sample : 25ng TO-15 LCS
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:39:59 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	366705	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.36	114	1518501	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	629252	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.07	65	523030	24.944	ng		-0.02
Spiked Amount 25.000			Recovery =	99.76%			
5) Toluene-d8 (SS2)	14.24	98	1544149	23.803	ng		-0.01
Spiked Amount 25.000			Recovery =	95.20%			
6) Bromofluorobenzene (SS3)	18.29	174	569614	26.409	ng		0.00
Spiked Amount 25.000			Recovery =	105.64%			
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	2010299	25.658	ng		97
8) n-Butylbenzene	20.84	91	1979267	26.520	ng	#	94

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

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Dichlorodifluoromethane (CFC 12)	ND	ND	2.20	0.446	-	-	25	
Chloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	ND	ND	ND	ND	-	-	25	
Vinyl Chloride	ND	ND	ND	ND	-	-	25	
Bromomethane	ND	ND	ND	ND	-	-	25	
Chloroethane	ND	ND	ND	ND	-	-	25	
Ethanol	ND	ND	ND	ND	-	-	25	
Acetone	25.9	10.9	25.6	10.8	25.75	**1**	25	**J, B**
Trichlorofluoromethane	55.8	9.94	55.5	9.88	55.65	**0.5**	25	
Acrylonitrile	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethene	ND	ND	ND	ND	-	-	25	
2-Methyl-2-Propanol (tert-Butyl Alcohol)	ND	ND	ND	ND	-	-	25	
Methylene Chloride	3.44	0.991	3.77	1.09	3.605	**9**	25	**J, B**
3-Chloro-1-propene (Allyl Chloride)	ND	ND	ND	ND	-	-	25	
Trichlorotrifluoroethane	ND	ND	ND	ND	-	-	25	
Carbon Disulfide	ND	ND	ND	ND	-	-	25	
trans-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
1,1-Dichloroethane	7.18	1.77	7.01	1.73	7.095	**2**	25	
Methyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
Vinyl Acetate	ND	ND	ND	ND	-	-	25	
2-Butanone (MEK)	7.41	2.52	7.11	2.41	7.26	**4**	25	**J, B**
cis-1,2-Dichloroethene	ND	ND	ND	ND	-	-	25	
Diisopropyl Ether	ND	ND	ND	ND	-	-	25	
Chloroform	7,490	1,530	7,410	1,520	7450	**1**	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: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Ethyl tert-Butyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloroethane	ND	ND	ND	ND	-	-	25	
1,1,1-Trichloroethane	ND	ND	ND	ND	-	-	25	
Benzene	6.28	1.97	6.38	2.00	6.33	**2**	25	**B**
Carbon Tetrachloride	209	33.3	209	33.3	209	**0**	25	
tert-Amyl Methyl Ether	ND	ND	ND	ND	-	-	25	
1,2-Dichloropropane	ND	ND	ND	ND	-	-	25	
Bromodichloromethane	ND	ND	ND	ND	-	-	25	
Trichloroethene	ND	ND	ND	ND	-	-	25	
1,4-Dioxane	ND	ND	ND	ND	-	-	25	
Methyl Methacrylate	ND	ND	ND	ND	-	-	25	
n-Heptane	ND	ND	ND	ND	-	-	25	
cis-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
4-Methyl-2-pentanone	ND	ND	ND	ND	-	-	25	
trans-1,3-Dichloropropene	ND	ND	ND	ND	-	-	25	
1,1,2-Trichloroethane	ND	ND	ND	ND	-	-	25	
Toluene	32.3	8.57	32.7	8.68	32.5	**1**	25	
2-Hexanone	ND	ND	ND	ND	-	-	25	
Dibromochloromethane	ND	ND	ND	ND	-	-	25	
1,2-Dibromoethane	ND	ND	ND	ND	-	-	25	
n-Octane	25.7	5.51	26.3	5.63	26	**2**	25	
Tetrachloroethene	30.8	4.54	30.2	4.46	30.5	**2**	25	
Chlorobenzene	ND	ND	ND	ND	-	-	25	

ND = Compound was analyzed for, but not detected above the laboratory detection limit.
B = Analyte was found in the method blank.

Verified By: _____ Date: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY DUPLICATE SUMMARY RESULTS

Client: **ENSR**
Client Sample ID: **SG56B-05**
Client Project ID: **Soil Gas Sampling / 04020-023-4311**

CAS Project ID: P0801507
CAS Sample ID: P0801507-008DUP

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16
Analyst: Wida Ang
Sampling Media: 6.0 L Summa Canister
Test Notes:
Container ID: SC00943

Date Collected: 5/20/08
Date Received: 5/21/08
Date Analyzed: 5/27 - 5/28/08
Volume(s) Analyzed: 0.050 Liter(s)
0.020 Liter(s)

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

Canister Dilution Factor: 1.67

Compound	Sample Result µg/m³	Sample Result ppbV	Duplicate Sample Result µg/m³	Duplicate Sample Result ppbV	Average µg/m³	% RPD	RPD Limit	Data Qualifier
Ethylbenzene	8.88	2.05	8.52	1.96	8.7	**4**	25	**J**
m,p-Xylenes	46.7	10.7	47.2	10.9	46.95	**1**	25	
Bromoform	ND	ND	ND	ND	-	-	25	
Styrene	ND	ND	ND	ND	-	-	25	
o-Xylene	16.6	3.82	16.5	3.81	16.55	**0.6**	25	**J**
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	-	-	25	
Cumene	ND	ND	ND	ND	-	-	25	
n-Propylbenzene	ND	ND	ND	ND	-	-	25	
4-Ethyltoluene	ND	ND	ND	ND	-	-	25	
1,3,5-Trimethylbenzene	3.64	0.741	3.27	0.666	3.455	**11**	25	**J**
alpha-Methylstyrene	ND	ND	ND	ND	-	-	25	
1,2,4-Trimethylbenzene	5.18	1.05	5.08	1.03	5.13	**2**	25	**J**
Benzyl Chloride	ND	ND	ND	ND	-	-	25	
1,3-Dichlorobenzene	4.34	0.722	4.18	0.695	4.26	**4**	25	
1,4-Dichlorobenzene	ND	ND	ND	ND	-	-	25	
sec-Butylbenzene	ND	ND	ND	ND	-	-	25	
4-Isopropyltoluene (p-Cymene)	ND	ND	ND	ND	-	-	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	ND	ND	ND	ND	-	-	25	
Hexachlorobutadiene	ND	ND	ND	ND	-	-	25	
tert-Butylbenzene	ND	ND	ND	ND	-	-	25	
n-Butylbenzene	ND	ND	ND	ND	-	-	25	

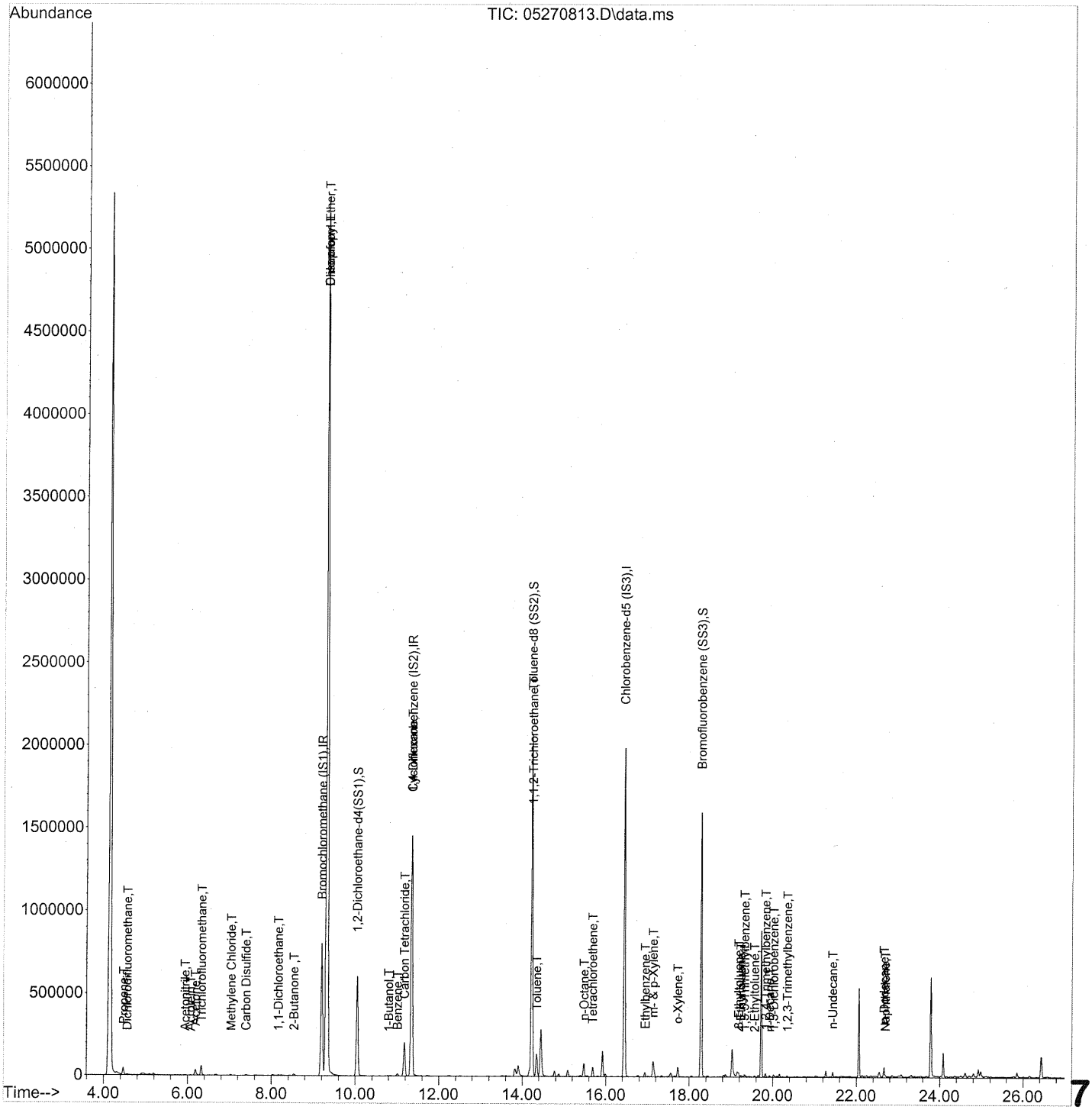
ND = Compound was analyzed for, but not detected above the laboratory detection limit.
J = The analyte was positively identified below the method reporting limit; the associated numerical value is considered estimated.

Verified By: CA Date: 6/5/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



724

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	392730	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1634694	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	660800	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	557417	24.822	ng		-0.05
Spiked Amount 25.000			Recovery =	99.28%			
57) Toluene-d8 (SS2)	14.23	98	1653444	24.271	ng		-0.02
Spiked Amount 25.000			Recovery =	97.08%			
73) Bromofluorobenzene (SS3)	18.28	174	570356	25.181	ng		-0.01
Spiked Amount 25.000			Recovery =	100.72%			
Target Compounds							Qvalue
2) Propene	4.47	42	1683	0.055	ng	#	88
3) Dichlorodifluoromethane	4.56	85	2412	0.066	ng	#	89
4) Chloromethane	4.76	50	196	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	5.69	45	800	N.D.			
11) Acetonitrile	5.94	41	4361	0.073	ng	#	62
12) Acrolein	6.08	56	1522	0.102	ng		99
13) Acetone	6.19	58	15721	0.766	ng	#	76
14) Trichlorofluoromethane	6.33	101	57174	1.661	ng		98
15) Isopropanol	6.45	45	91	N.D.			
16) Acrylonitrile	0.00	53	0	N.D.			
17) 1,1-Dichloroethene	0.00	96	0	N.D.			
18) tert-Butanol	6.96	59	91	N.D.			
19) Methylene Chloride	7.04	84	1796	0.113	ng	#	28
20) Allyl Chloride	0.00	41	0	N.D.			
21) Trichlorotrifluoroethane	0.00	151	0	N.D.			
22) Carbon Disulfide	7.40	76	6568	~~0.103~~	~~ng~~		84
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.			
24) 1,1-Dichloroethane	8.17	63	7062	0.210	ng		98
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.			
26) Vinyl Acetate	0.00	86	0	N.D.			
27) 2-Butanone	8.53	72	2288	0.213	ng	#	1
28) cis-1,2-Dichloroethene	9.17	61	112	N.D.			
29) Diisopropyl Ether	9.32	87	614586	~~43.489~~	~~ng~~ NR	#	1
30) Ethyl Acetate	9.17	61	112	N.D.			
31) n-Hexane	9.23	57	874	N.D.			

725

DA 6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	5640956	~~243.405 ng~~ see dil		96
34) Tetrahydrofuran	0.00	72	0	N.D.		
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D. ✓		
36) 1,2-Dichloroethane	10.16	62	742	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	10.80	56	1638	0.061 ng	#	1
41) Benzene	11.01	78	13197	0.191 ng		98
42) Carbon Tetrachloride	11.18	117	177212	6.269 ng		99
43) Cyclohexane	11.35	84	2247	0.083 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	12.14	83	834	N.D. ✓		
47) Trichloroethene	12.19	130	198	N.D. ✓		
48) 1,4-Dioxane	0.00	88	0	N.D. ✓		
49) Isooctane	12.25	57	3595	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	13.19	58	823	N.D. ✓		
54) trans-1,3-Dichloropropene	0.00	75	0	N.D. ✓		
55) 1,1,2-Trichloroethane	14.24	97	139947	~~8.348 ng~~ NR	#	7
58) Toluene	14.35	91	75639	0.979 ng		98
59) 2-Hexanone	14.58	43	2284	N.D. ✓		
60) Dibromochloromethane	0.00	129	0	N.D. ✓		
61) 1,2-Dibromoethane	0.00	107	0	N.D. ✓		
62) Butyl Acetate	15.31	43	330	N.D.		
63) n-Octane	15.48	57	18380	0.787 ng		95
64) Tetrachloroethene	15.69	166	20683	0.905 ng		99
65) Chlorobenzene	16.50	112	1100	N.D. ✓		
66) Ethylbenzene	16.94	91	22393	0.255 ng		90
67) m- & p-Xylene	17.14	91	82180	1.412 ng		92
68) Bromoform	0.00	173	0	N.D. ✓		
69) Styrene	17.59	104	945	N.D. ✓		
70) o-Xylene	17.73	91	30831	0.495 ng		94
71) n-Nonane	17.96	43	1568	N.D.		
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D. ✓		
74) Cumene	18.45	105	706	N.D. ✓		
75) alpha-Pinene	18.93	93	431	N.D.		
76) n-Propylbenzene	19.06	91	2958	N.D. ✓		
77) 3-Ethyltoluene	19.18	105	14533	0.146 ng		96
78) 4-Ethyltoluene	19.24	105	4570	~~0.051 ng~~		98
79) 1,3,5-Trimethylbenzene	19.33	105	7832	0.098 ng		87

726

6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.52	118	93	N.D.	
81) 2-Ethyltoluene	19.56	105	5754	0.060 ng	95
82) 1,2,4-Trimethylbenzene	19.83	105	12256	0.152 ng	98
83) n-Decane	19.92	57	4076	0.071 ng	78
84) Benzyl Chloride	19.98	91	195	N.D.	
85) 1,3-Dichlorobenzene	20.02	146	6397	0.125 ng	95
86) 1,4-Dichlorobenzene	20.10	146	2114	N.D.	
87) sec-Butylbenzene	20.16	105	243	N.D.	
88) p-Isopropyltoluene	20.34	119	943	N.D.	
89) 1,2,3-Trimethylbenzene	20.34	105	4193	0.054 ng	97
90) 1,2-Dichlorobenzene	20.51	146	646	N.D.	
91) d-Limonene	20.51	68	356	N.D.	
92) 1,2-Dibromo-3-Chloropr...	0.00	157	0	N.D.	
93) n-Undecane	21.43	57	10248	0.171 ng	96
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.	
95) Naphthalene	22.69	128	5956	0.051 ng	83
96) n-Dodecane	22.66	57	21530	0.369 ng	78
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.	

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

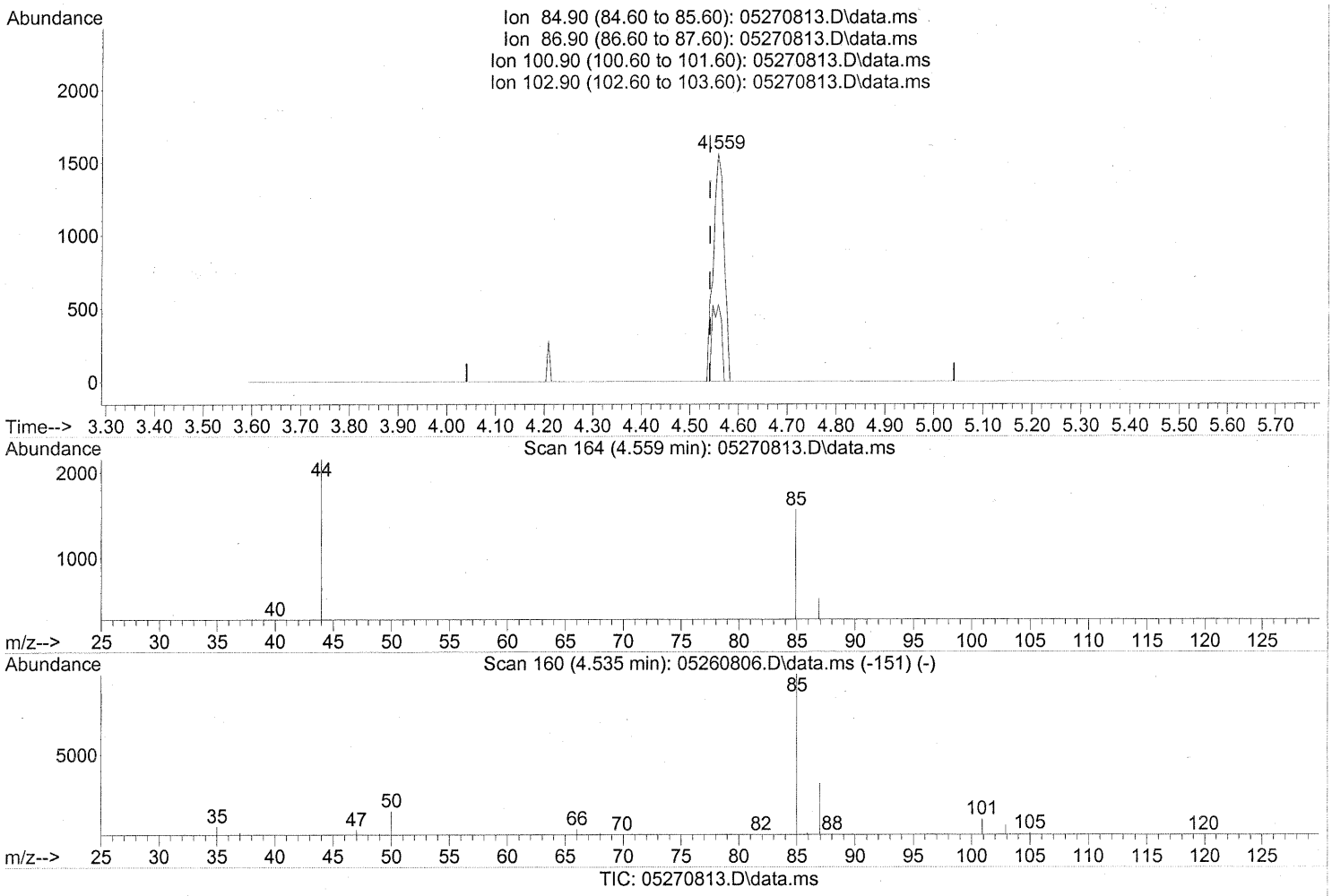
727

6/4/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(3) Dichlorodifluoromethane (T)

4.559min (+0.018) 0.07ng

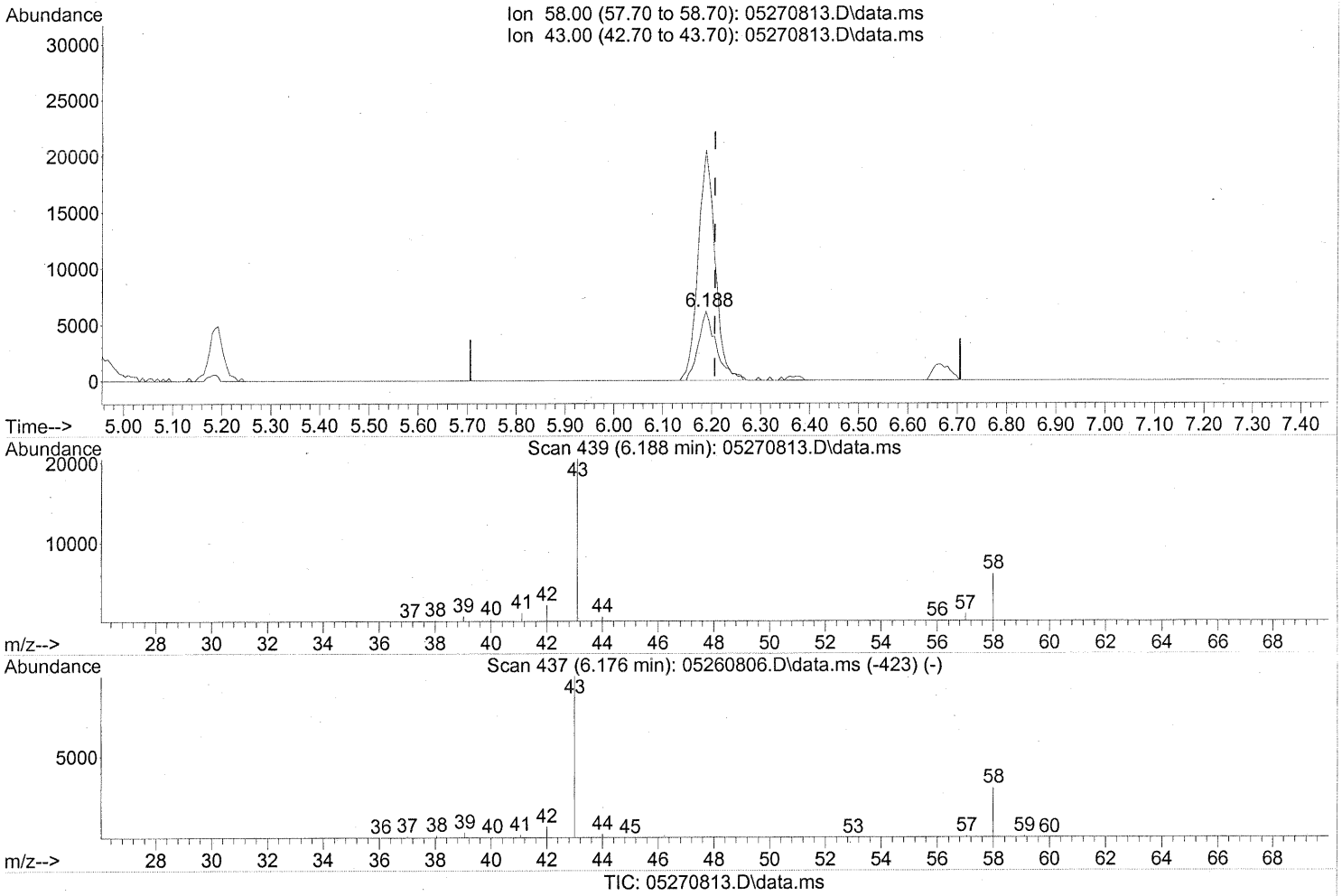
response 2412

Ion	Exp%	Act%
84.90	100	100
86.90	31.50	28.07
100.90	8.40	0.00
102.90	5.50	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(13) Acetone (T)

6.188min (-0.018) 0.77ng

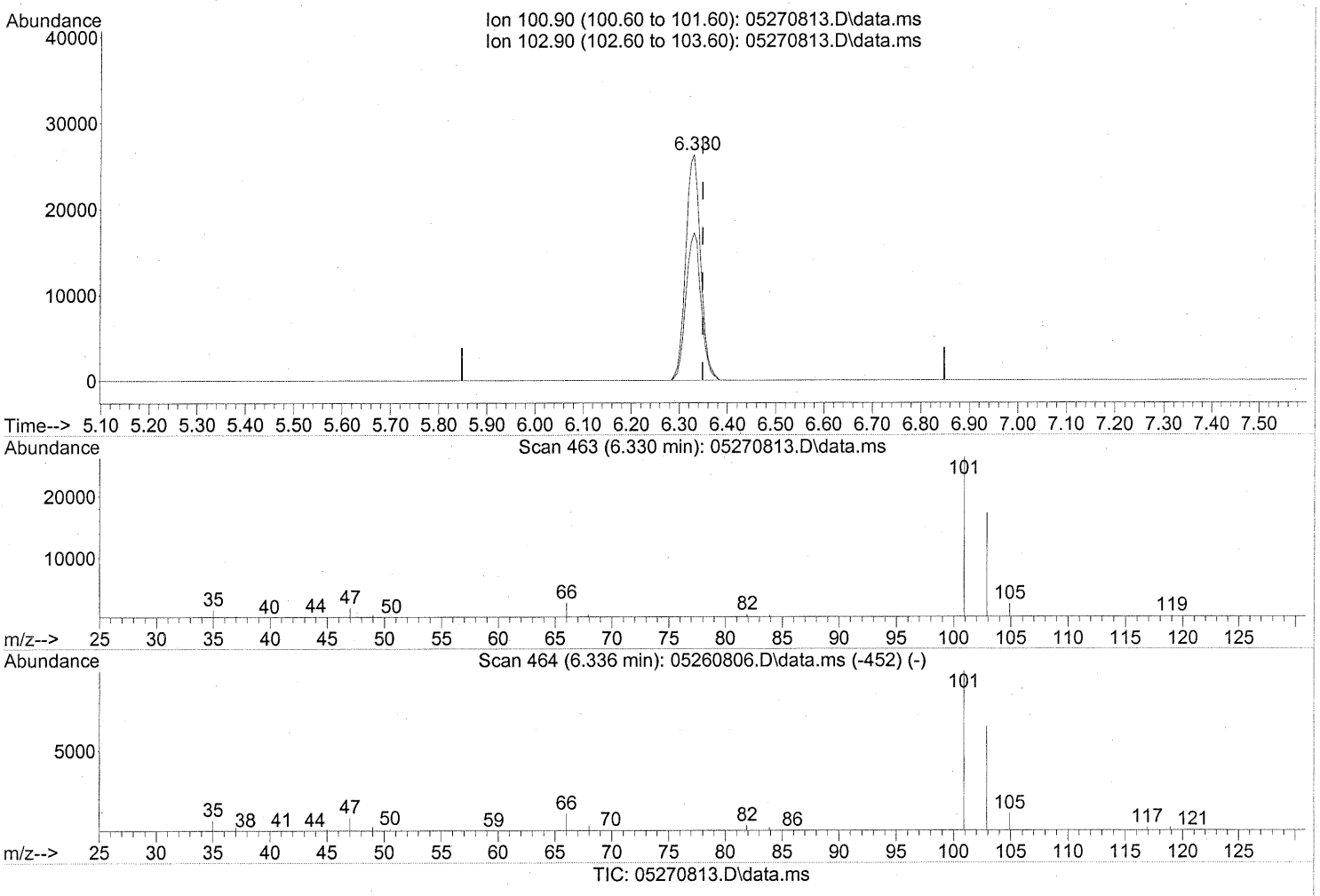
response 15721

Ion	Exp%	Act%
58.00	100	100
43.00	368.40	314.31#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(14) Trichlorofluoromethane (T)

6.330min (-0.018) 1.66ng

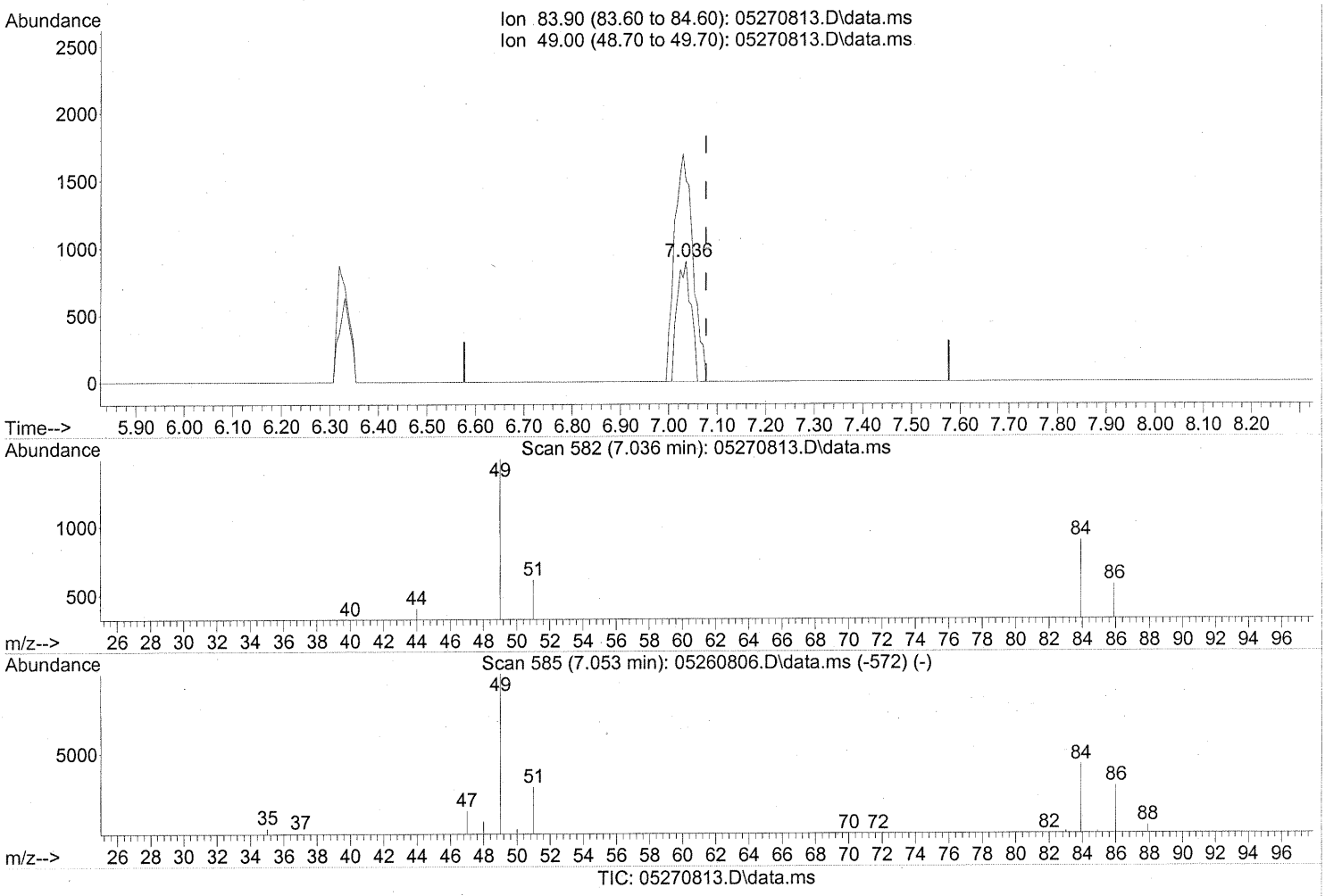
response 57174

Ion	Exp%	Act%
100.90	100	100
102.90	64.90	66.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(19) Methylene Chloride (T)

7.036min (-0.041) 0.11ng

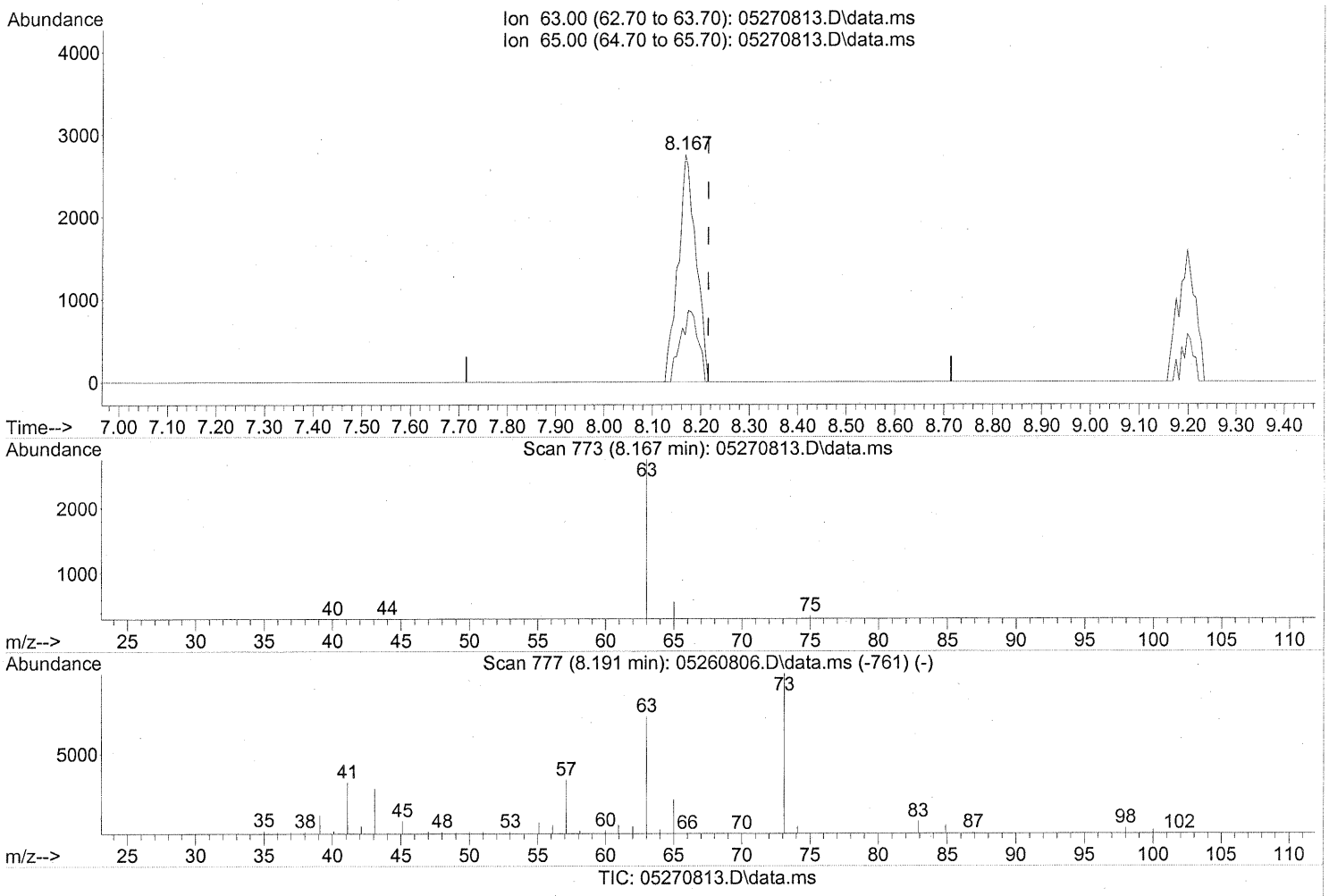
response 1796

Ion	Exp%	Act%
83.90	100	100
49.00	155.50	249.05#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(24) 1,1-Dichloroethane (T)

8.167min (-0.048) 0.21ng

response 7062

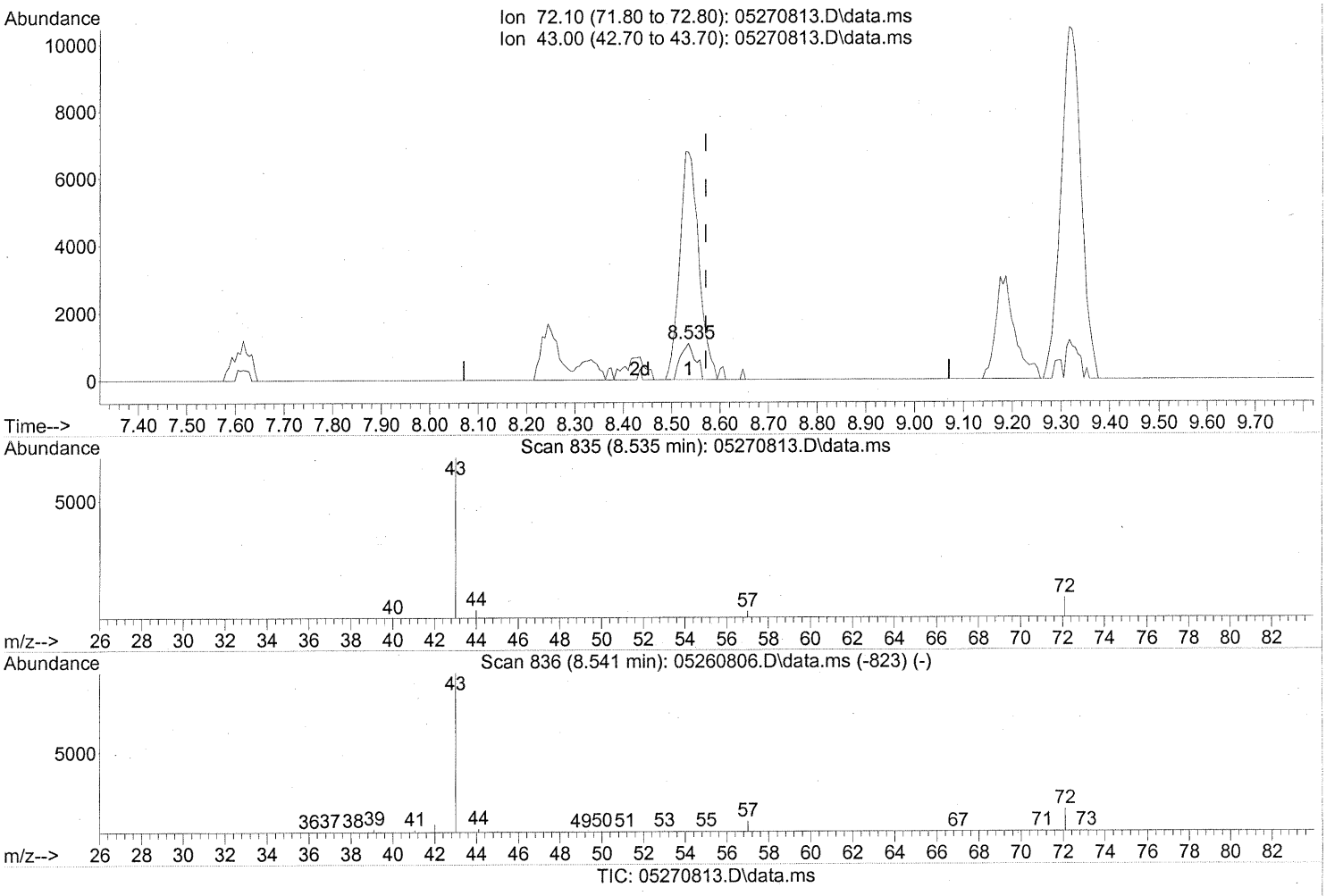
Ion	Exp%	Act%
63.00	100	100
65.00	32.20	30.84
0.00	0.00	0.00
0.00	0.00	0.00

732

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(27) 2-Butanone (T)

8.535min (-0.036) 0.21ng

response 2288

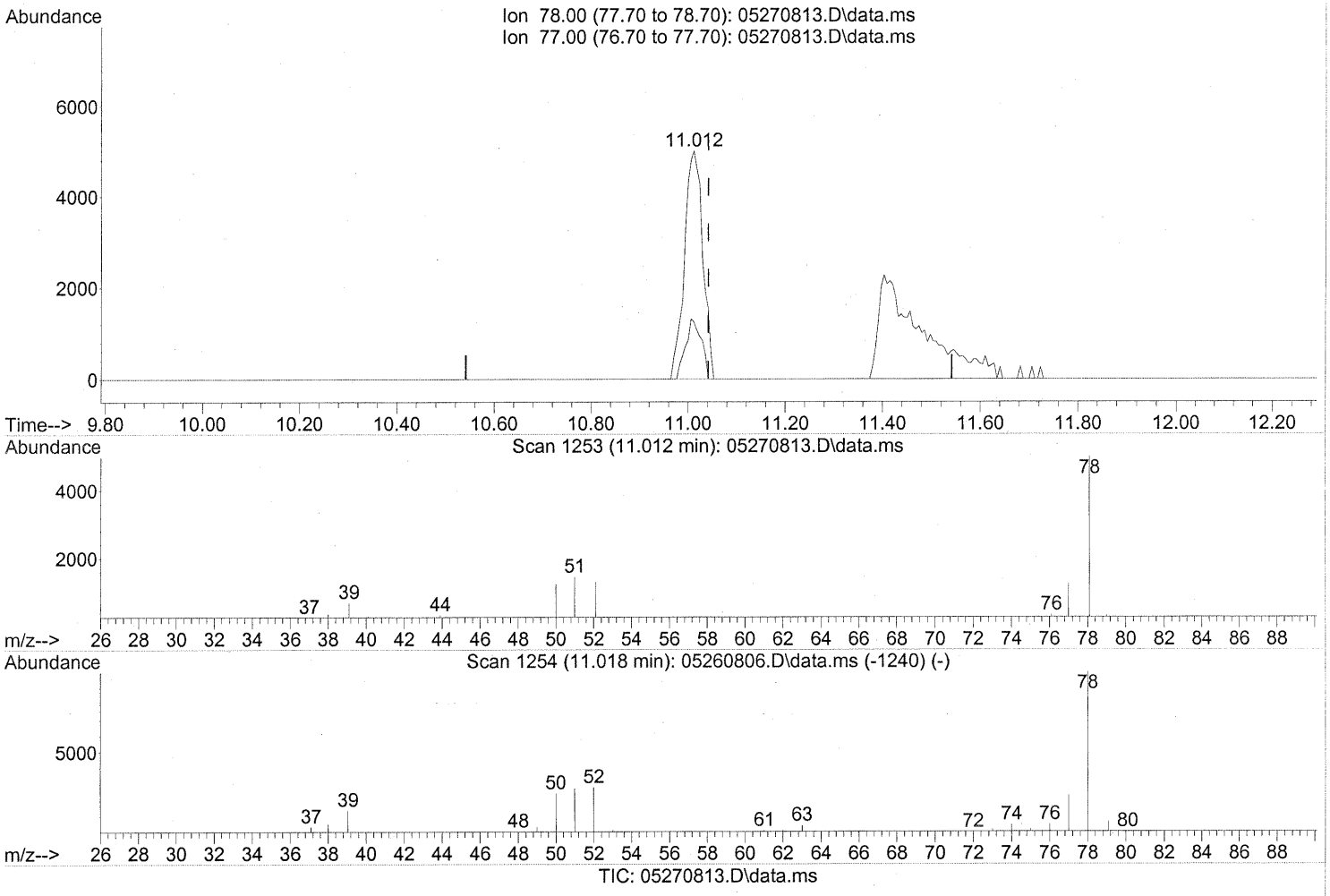
Ion	Exp%	Act%
72.10	100	100
43.00	491.60	815.17#
0.00	0.00	0.00
0.00	0.00	0.00

733

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(41) Benzene (T)

11.012min (-0.030) 0.19ng

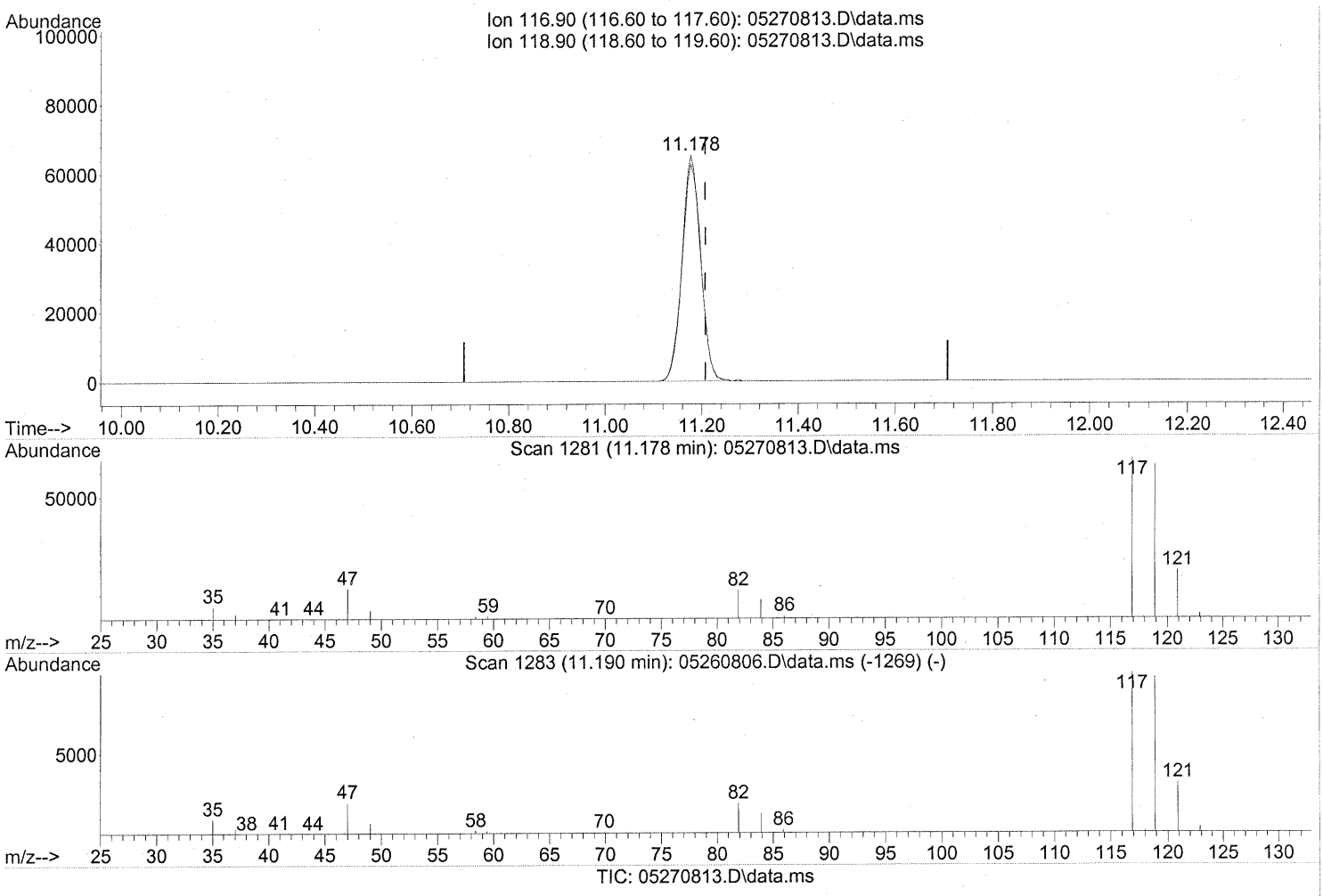
response 13197

Ion	Exp%	Act%
78.00	100	100
77.00	23.50	22.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(42) Carbon Tetrachloride (T)

11.178min (-0.030) 6.27ng

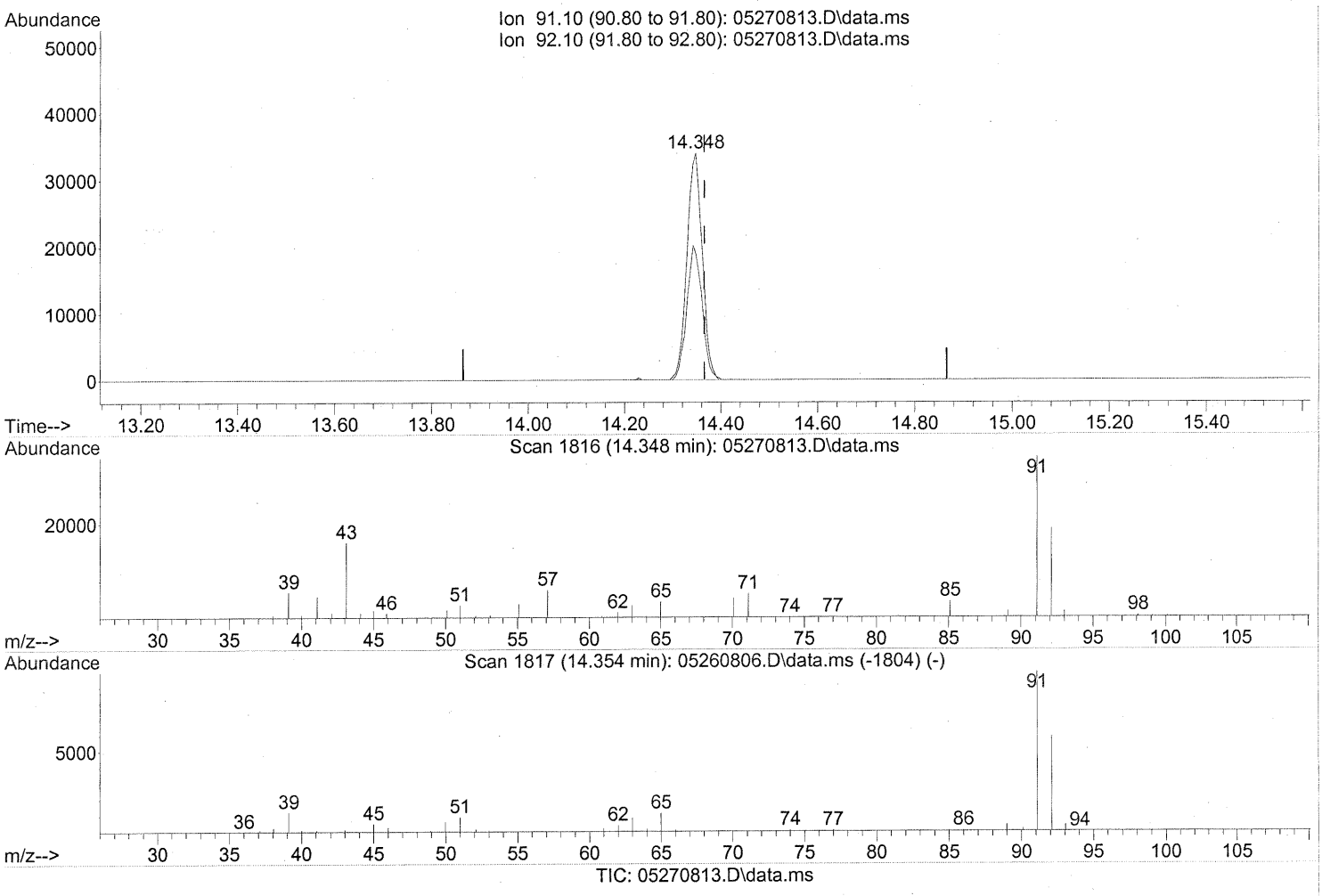
response 177212

Ion	Exp%	Act%
116.90	100	100
118.90	95.30	96.01
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(58) Toluene (T)

14.348min (-0.018) 0.98ng

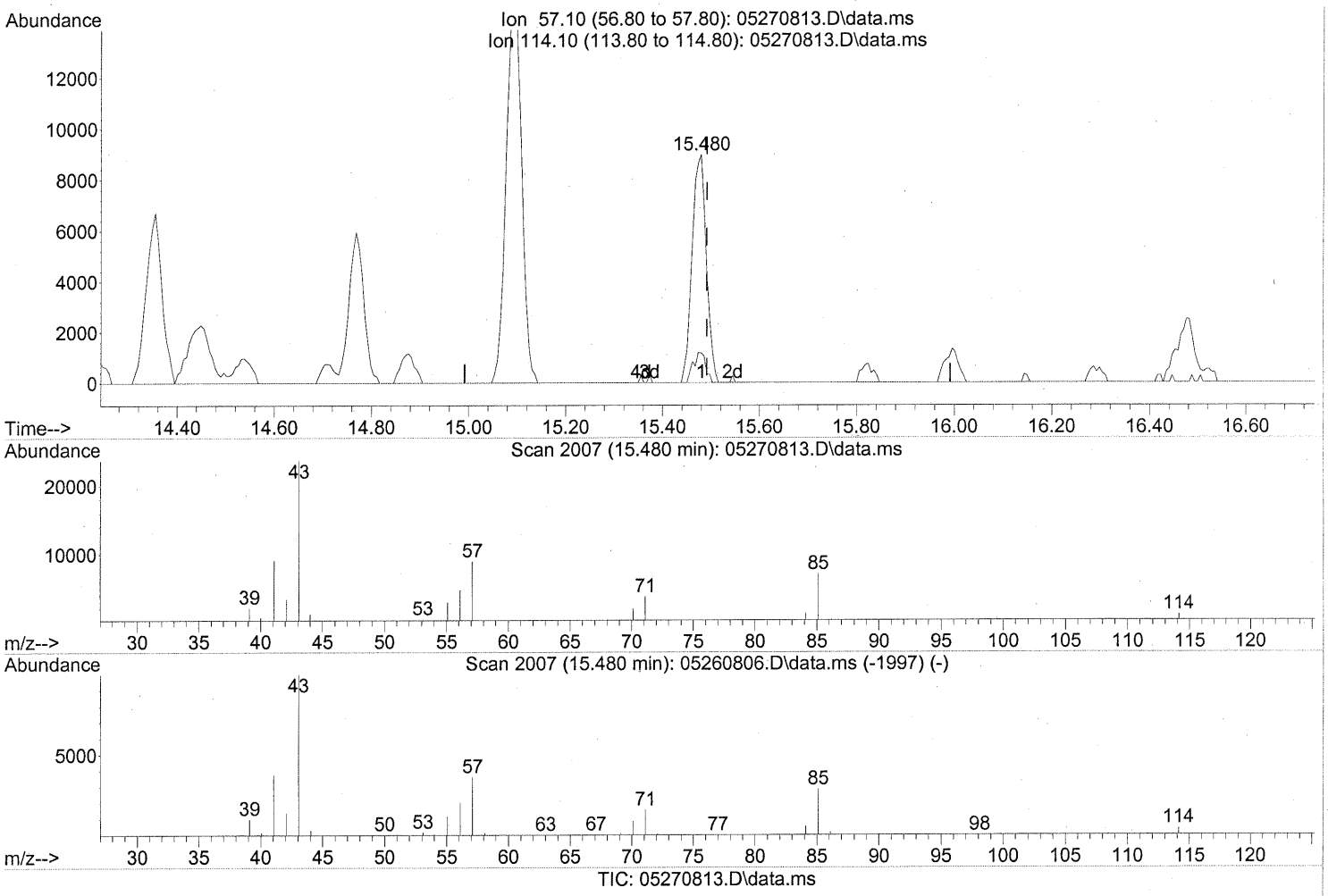
response 75639

Ion	Exp%	Act%
91.10	100	100
92.10	57.80	59.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(63) n-Octane (T)

15.480min (-0.012) 0.79ng

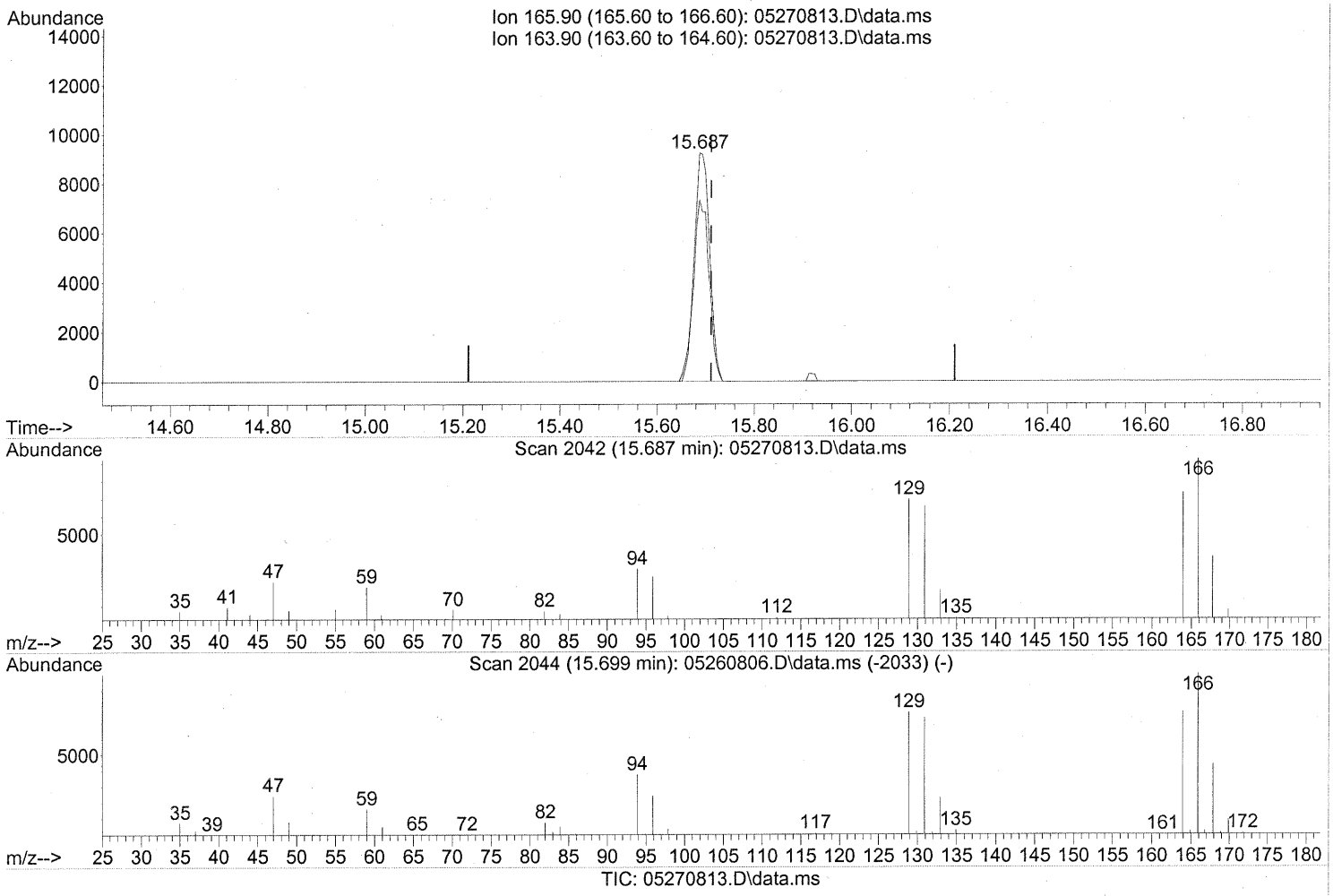
response 18380

Ion	Exp%	Act%
57.10	100	100
114.10	13.60	11.45
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(64) Tetrachloroethene (T)

15.687min (-0.024) 0.90ng

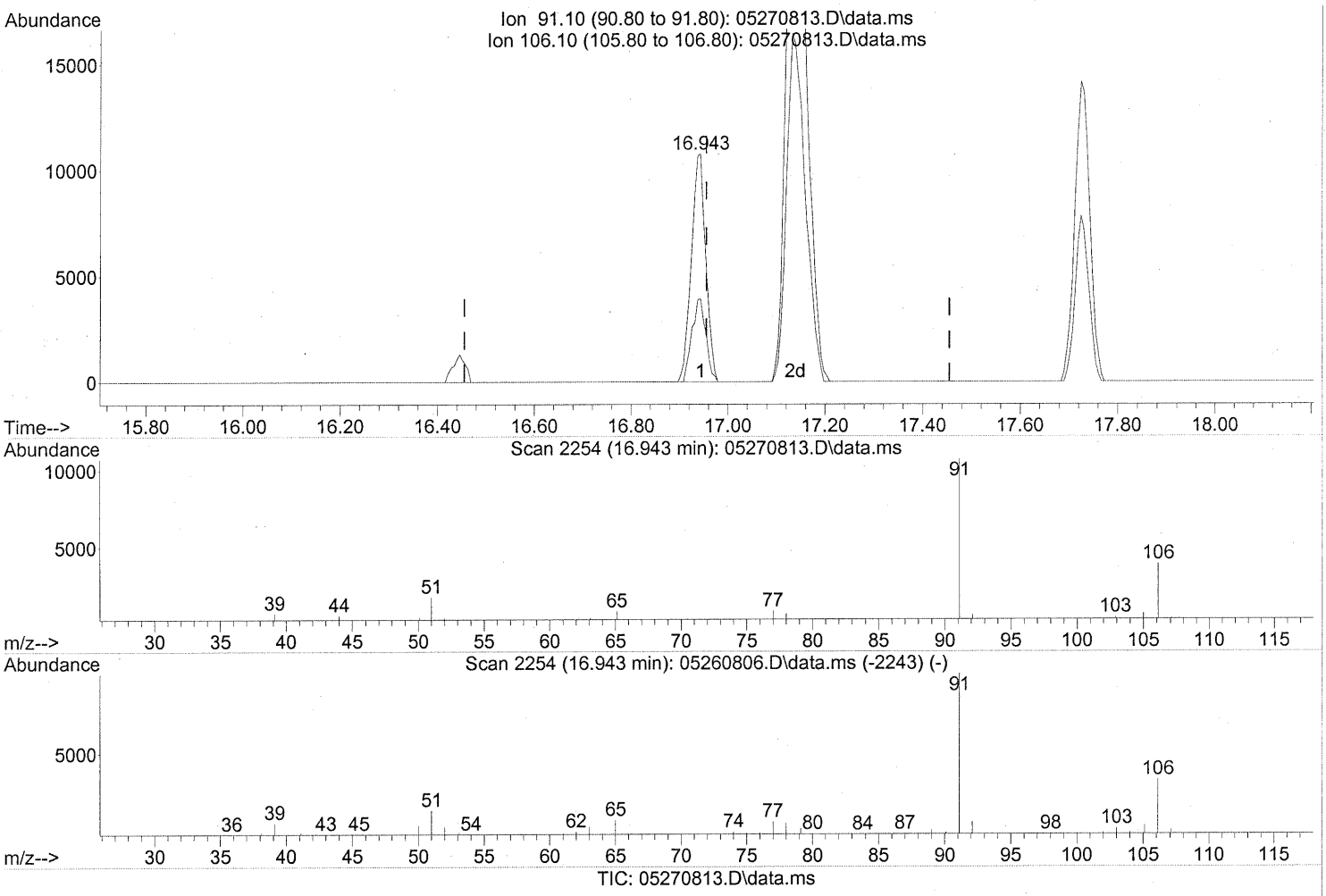
response 20683

Ion	Exp%	Act%
165.90	100	100
163.90	77.50	78.56
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(66) Ethylbenzene (T)

16.943min (-0.012) 0.25ng

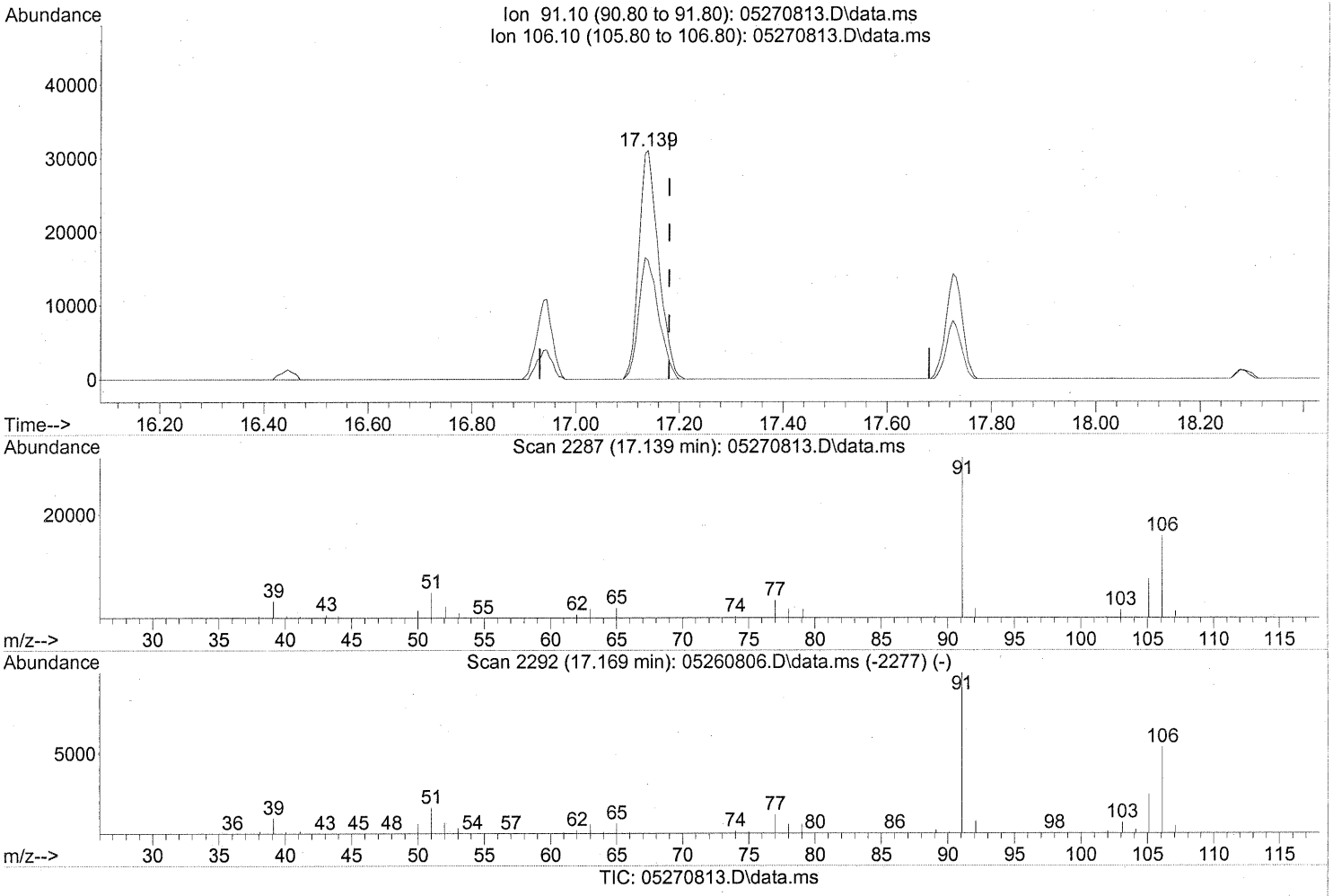
response 22393

Ion	Exp%	Act%
91.10	100	100
106.10	29.90	35.39
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

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

17.139min (-0.042) 1.41ng

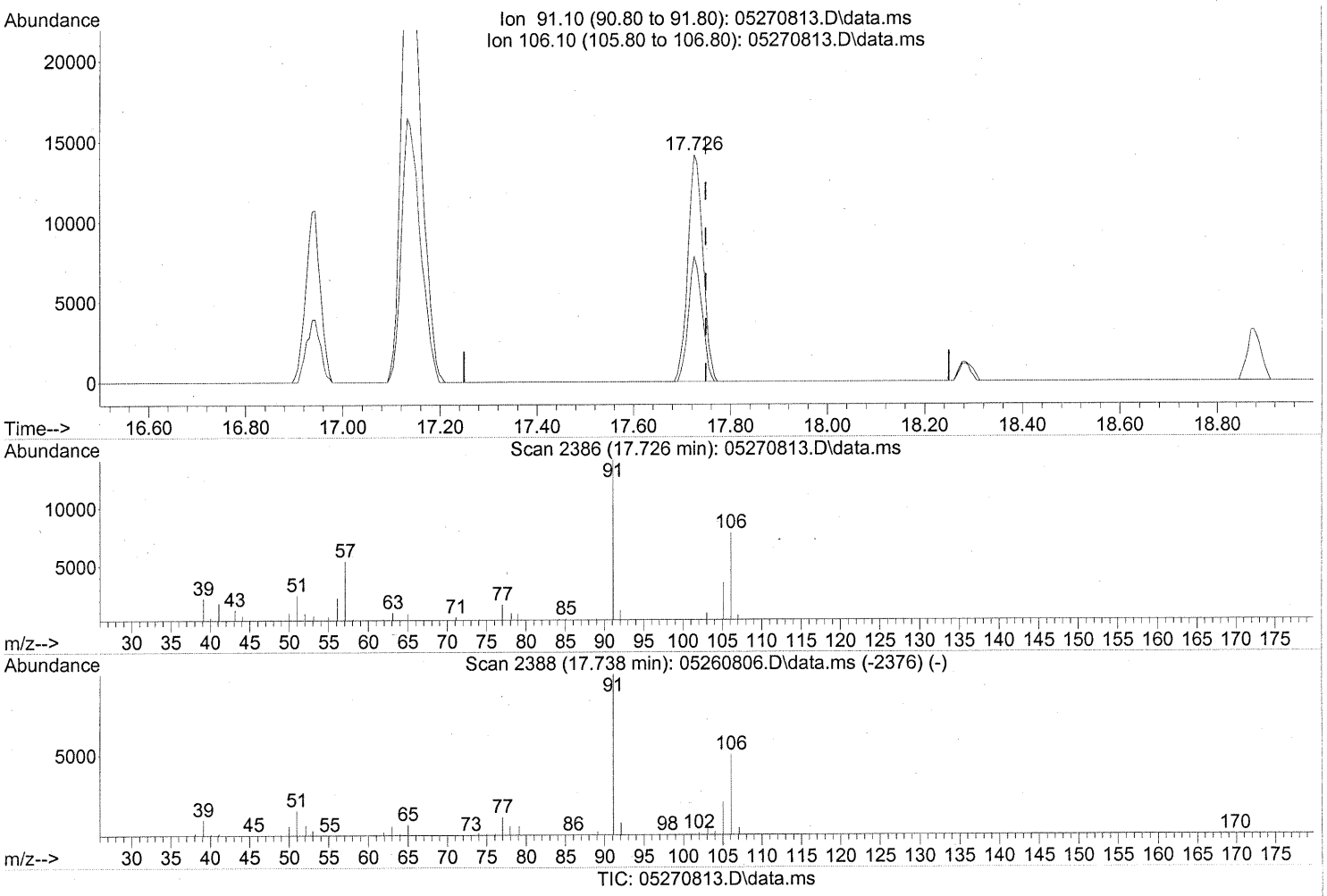
response 82180

Ion	Exp%	Act%
91.10	100	100
106.10	48.00	53.67
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

(70) o-Xylene (T)

17.726min (-0.024) 0.49ng

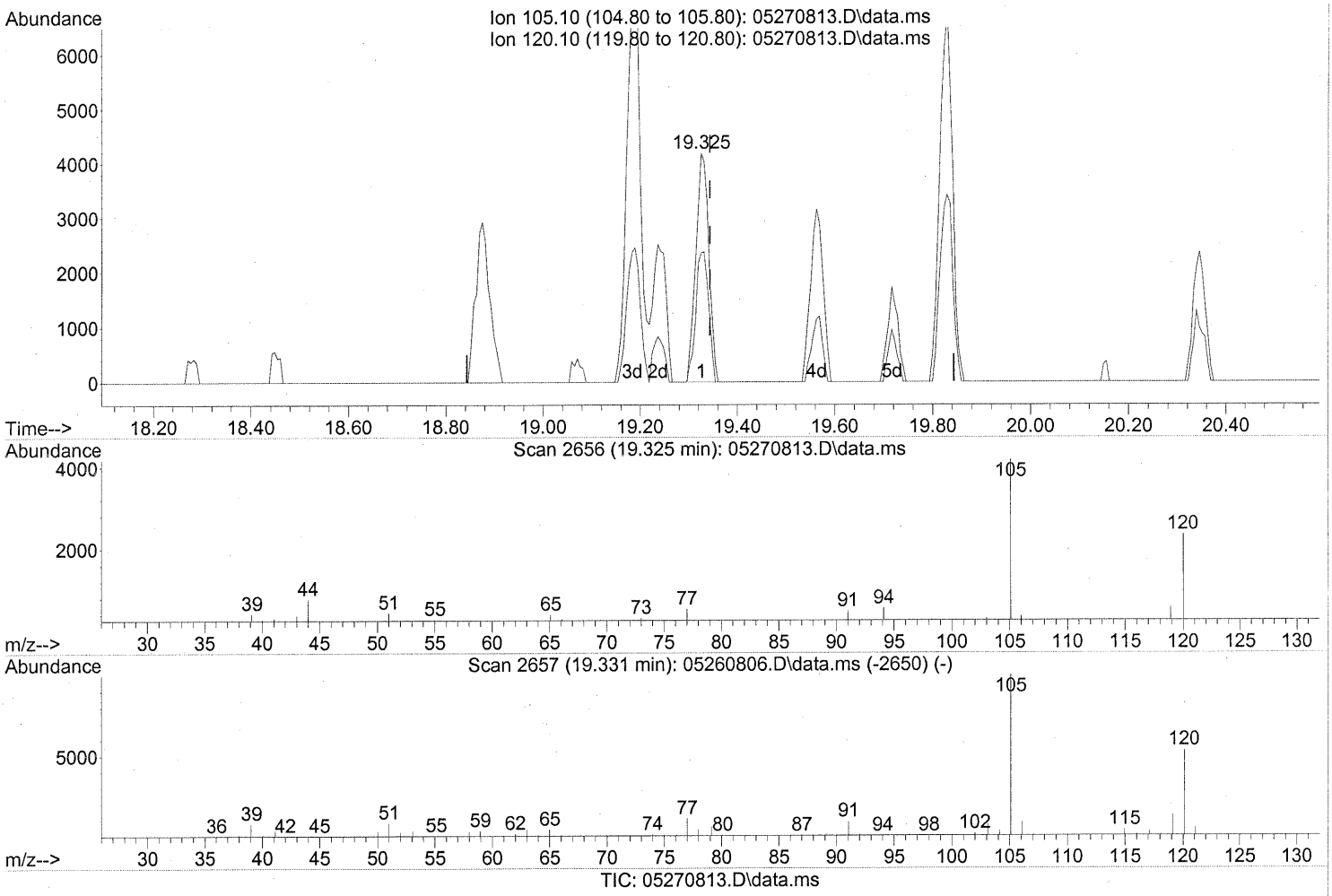
response 30831

Ion	Exp%	Act%
91.10	100	100
106.10	45.90	50.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

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

19.325min (-0.018) 0.10ng

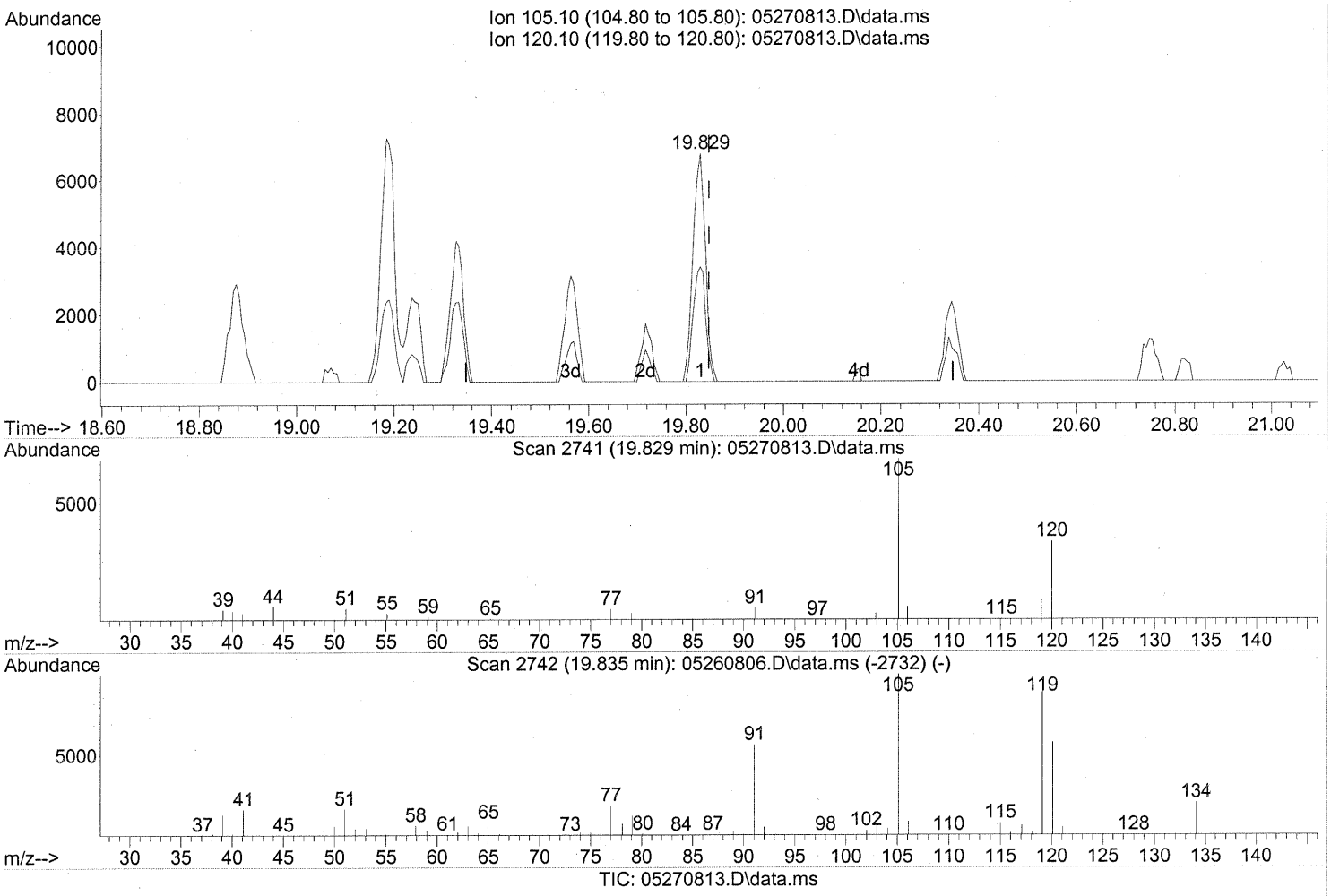
response 7832

Ion	Exp%	Act%
105.10	100	100
120.10	47.30	56.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270813.D\data.ms

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

19.829min (-0.018) 0.15ng

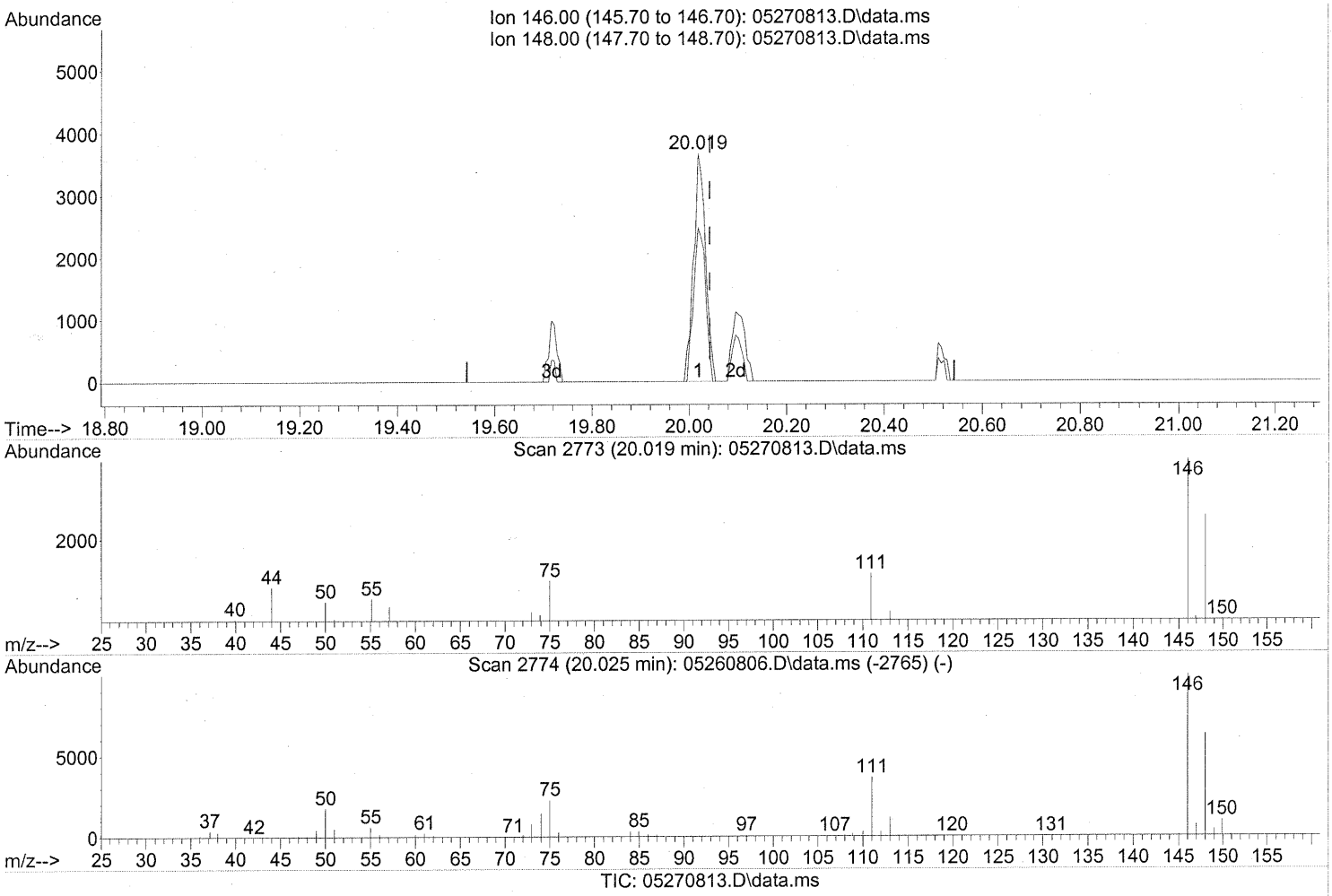
response 12256

Ion	Exp%	Act%
105.10	100	100
120.10	51.70	50.64
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:47:12 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(85) 1,3-Dichlorobenzene (T)

20.019min (-0.024) 0.13ng

response 6397

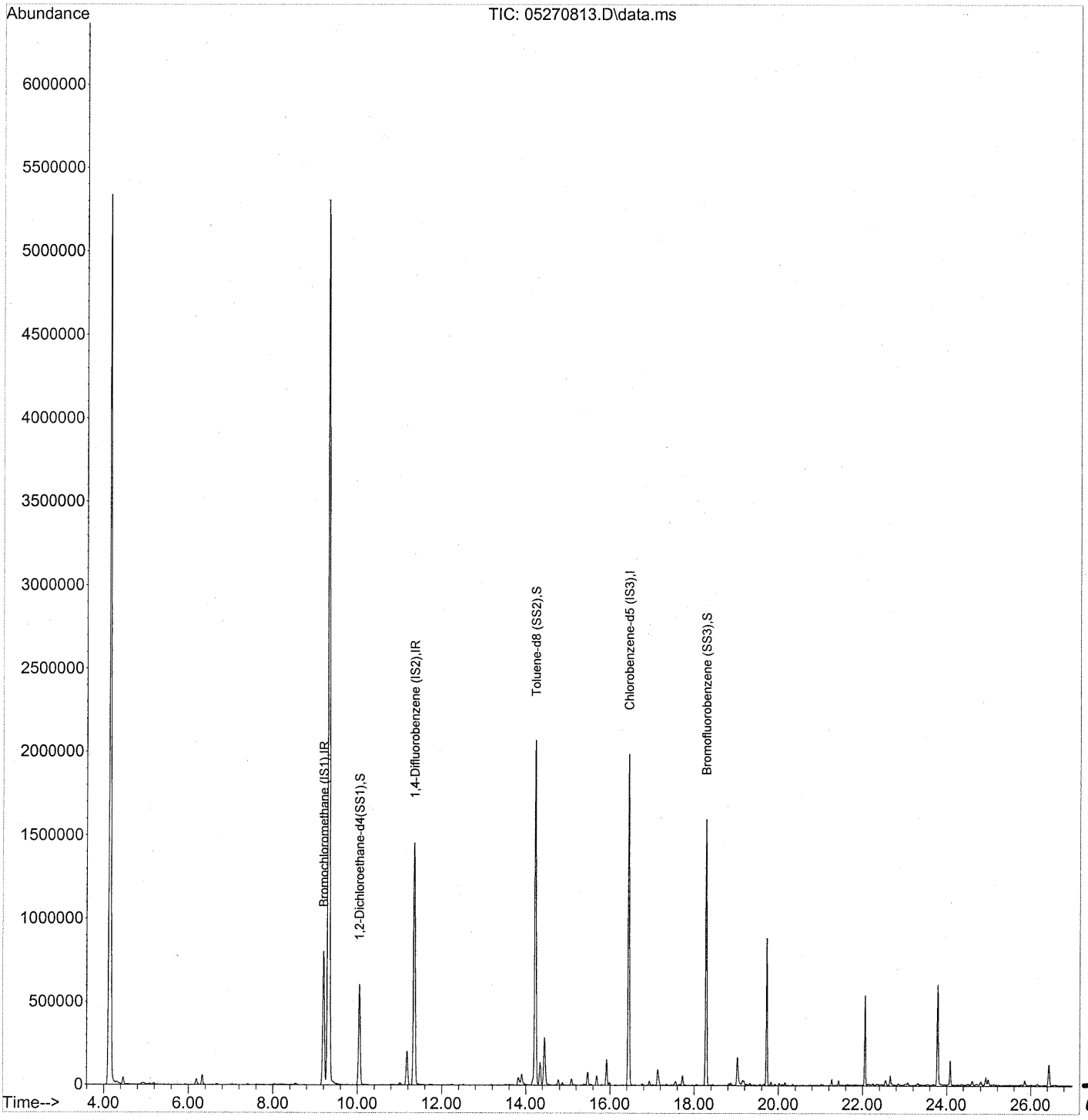
Ion	Exp%	Act%
146.00	100	100
148.00	63.10	67.19
0.00	0.00	0.00
0.00	0.00	0.00

744

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 15:21:31 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



745

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270813.D
Acq On : 27 May 2008 20:27
Operator : WA
Sample : P0801507-008 Dup (50ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 04 15:21:31 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	392730	25.000	ng	-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1634694	25.000	ng	-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	660800	25.000	ng	-0.01
System Monitoring Compounds						
2) 1,2-Dichloroethane-d4(...	10.05	65	557417	24.822	ng	-0.05
Spiked Amount 25.000			Recovery = 99.28%			
5) Toluene-d8 (SS2)	14.23	98	1653444	24.271	ng	-0.02
Spiked Amount 25.000			Recovery = 97.08%			
6) Bromofluorobenzene (SS3)	18.28	174	570356	25.181	ng	-0.01
Spiked Amount 25.000			Recovery = 100.72%			
Target Compounds						Qvalue
7) tert-Butylbenzene	19.83	119	1738	N.D.		
8) n-Butylbenzene	20.84	91	994	N.D.		

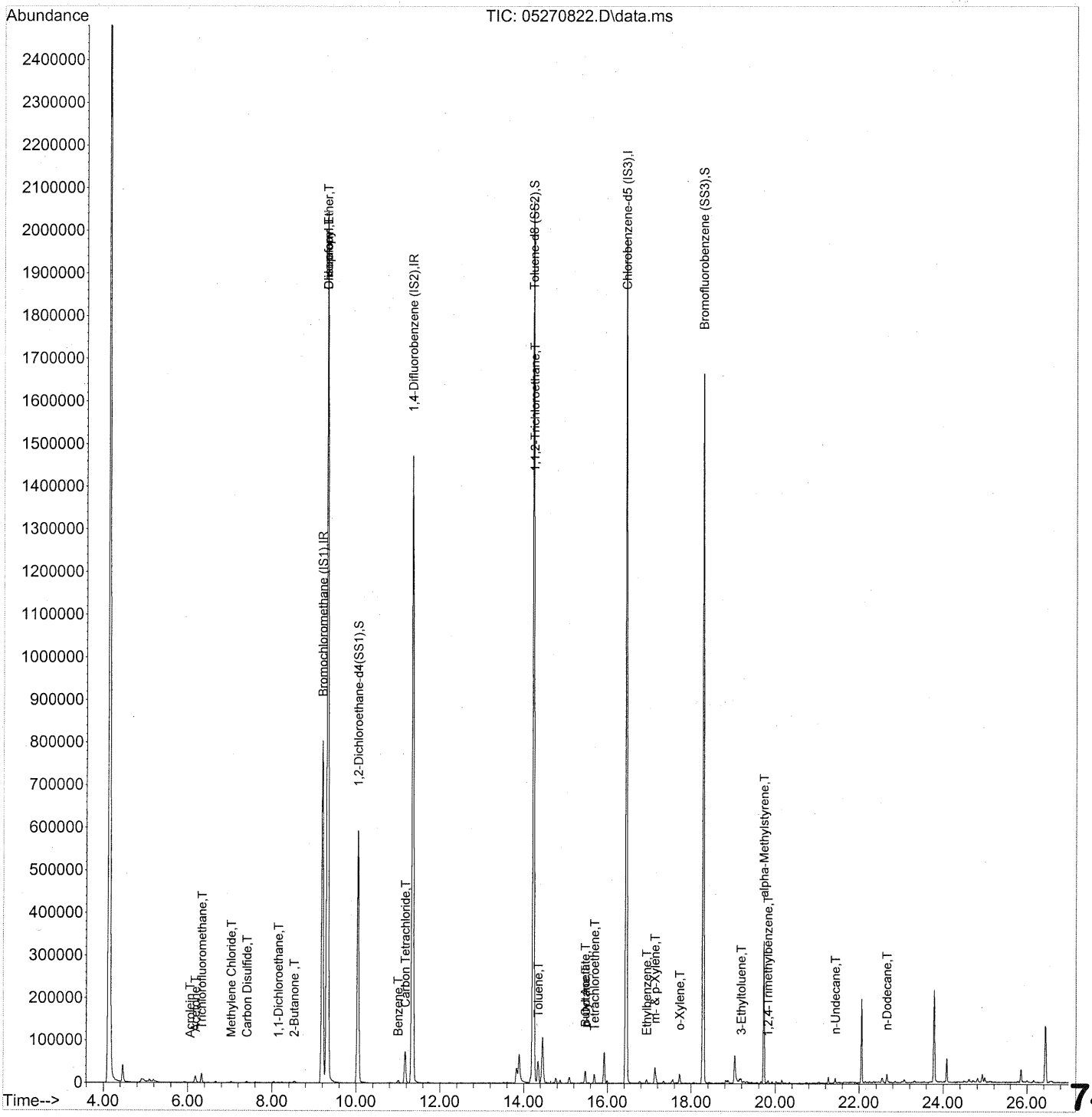
(#) = qualifier out of range (m) = manual integration (+) = signals summed

746

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 2:17
Operator : WA
Sample : P0801507-008 Dup Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:40 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 2:17
Operator : WA
Sample : P0801507-008 Dup Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:40 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	399452	25.000	ng	-0.05
37) 1,4-Difluorobenzene (IS2)	11.34	114	1672637	25.000	ng	-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	675510	25.000	ng	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4(...	10.04	65	560024	24.519	ng	-0.05
Spiked Amount 25.000			Recovery =	98.08%		
57) Toluene-d8 (SS2)	14.22	98	1698869	24.394	ng	-0.02
Spiked Amount 25.000			Recovery =	97.56%		
73) Bromofluorobenzene (SS3)	18.28	174	605116	26.134	ng	-0.01
Spiked Amount 25.000			Recovery =	104.52%		
Target Compounds						Qvalue
2) Propene	4.46	42	854	N.D.		
3) Dichlorodifluoromethane	4.55	85	748	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	5.73	45	101	N.D.		
11) Acetonitrile	5.93	41	2869	N.D.		
12) Acrolein	6.06	56	1185	0.078	ng #	62
13) Acetone	6.18	58	8859	0.424	ng #	55
14) Trichlorofluoromethane	6.33	101	21292	0.608	ng	100
15) Isopropanol	6.38	45	880	N.D.		
16) Acrylonitrile	0.00	53	0	N.D.		
17) 1,1-Dichloroethene	0.00	96	0	N.D.		
18) tert-Butanol	6.97	59	121	N.D.		
19) Methylene Chloride	7.03	84	1163	0.072	ng #	37
20) Allyl Chloride	0.00	41	0	N.D.		
21) Trichlorotrifluoroethane	0.00	151	0	N.D.		
22) Carbon Disulfide	7.40	76	3851	0.059	ng #	75
23) trans-1,2-Dichloroethene	0.00	61	0	N.D.		
24) 1,1-Dichloroethane	8.16	63	2562	0.075	ng #	55
25) Methyl tert-Butyl Ether	0.00	73	0	N.D.		
26) Vinyl Acetate	0.00	86	0	N.D.		
27) 2-Butanone	8.53	72	831	0.076	ng #	1
28) cis-1,2-Dichloroethene	0.00	61	0	N.D.		
29) Diisopropyl Ether	9.31	87	229377	15.958	ng #	1
30) Ethyl Acetate	0.00	61	0	N.D.		
31) n-Hexane	0.00	57	0	N.D.		

748

6/2/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 2:17
Operator : WA
Sample : P0801507-008 Dup Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:40 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.31	83	2090923	88.704	ng		95
34) Tetrahydrofuran	0.00	72	0	N.D.			
35) Ethyl tert-Butyl Ether	0.00	87	0	N.D.			
36) 1,2-Dichloroethane	10.04	62	96	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	10.79	56	315	N.D.			
41) Benzene	11.01	78	7023	0.100	ng		91
42) Carbon Tetrachloride	11.17	117	65326	2.258	ng		99
43) Cyclohexane	11.33	84	1096	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	12.12	83	104	N.D.			
47) Trichloroethene	0.00	130	0	N.D.			
48) 1,4-Dioxane	0.00	88	0	N.D.			
49) Isooctane	12.24	57	1254	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	14.24	97	144349	8.416	ng	#	7
58) Toluene	14.35	91	28437	0.360	ng		98
59) 2-Hexanone	14.59	43	1123	N.D.			
60) Dibromochloromethane	0.00	129	0	N.D.			
61) 1,2-Dibromoethane	0.00	107	0	N.D.			
62) Butyl Acetate	15.47	43	17675	0.236	ng	#	76
63) n-Octane	15.48	57	6631	0.278	ng		88
64) Tetrachloroethene	15.69	166	8440	0.361	ng		95
65) Chlorobenzene	16.49	112	112	N.D.			
66) Ethylbenzene	16.94	91	9119	0.102	ng		99
67) m- & p-Xylene	17.14	91	30539	0.513	ng		90
68) Bromoform	0.00	173	0	N.D.			
69) Styrene	17.58	104	436	N.D.			
70) o-Xylene	17.73	91	12153	0.191	ng		100
71) n-Nonane	17.97	43	917	N.D.			
72) 1,1,2,2-Tetrachloroethane	0.00	83	0	N.D.			
74) Cumene	18.46	105	91	N.D.			
75) alpha-Pinene	19.03	93	1090	N.D.			
76) n-Propylbenzene	19.06	91	1466	N.D.			
77) 3-Ethyltoluene	19.19	105	6026	0.059	ng		98
78) 4-Ethyltoluene	19.24	105	1939	N.D.			
79) 1,3,5-Trimethylbenzene	19.33	105	3031	N.D.			

749

6/2/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 2:17
Operator : WA
Sample : P0801507-008 Dup Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:40 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
80) alpha-Methylstyrene	19.72	118	2767	0.060 ng	#	13
81) 2-Ethyltoluene	19.57	105	2377	N.D.		
82) 1,2,4-Trimethylbenzene	19.82	105	4804	0.058 ng		94
83) n-Decane	19.92	57	1519	N.D.		
84) Benzyl Chloride	19.84	91	186	N.D.		
85) 1,3-Dichlorobenzene	20.02	146	2342	N.D.		
86) 1,4-Dichlorobenzene	20.10	146	600	N.D.		
87) sec-Butylbenzene	20.34	105	1704	N.D.		
88) p-Isopropyltoluene	20.34	119	349	N.D.		
89) 1,2,3-Trimethylbenzene	20.34	105	1704	N.D.		
90) 1,2-Dichlorobenzene	20.51	146	182	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	21.44	57	4800	0.078 ng		76
94) 1,2,4-Trichlorobenzene	0.00	184	0	N.D.		
95) Naphthalene	22.69	128	2893	N.D.		
96) n-Dodecane	22.66	57	8651	0.145 ng		78
97) Hexachloro-1,3-butadiene	0.00	225	0	N.D.		

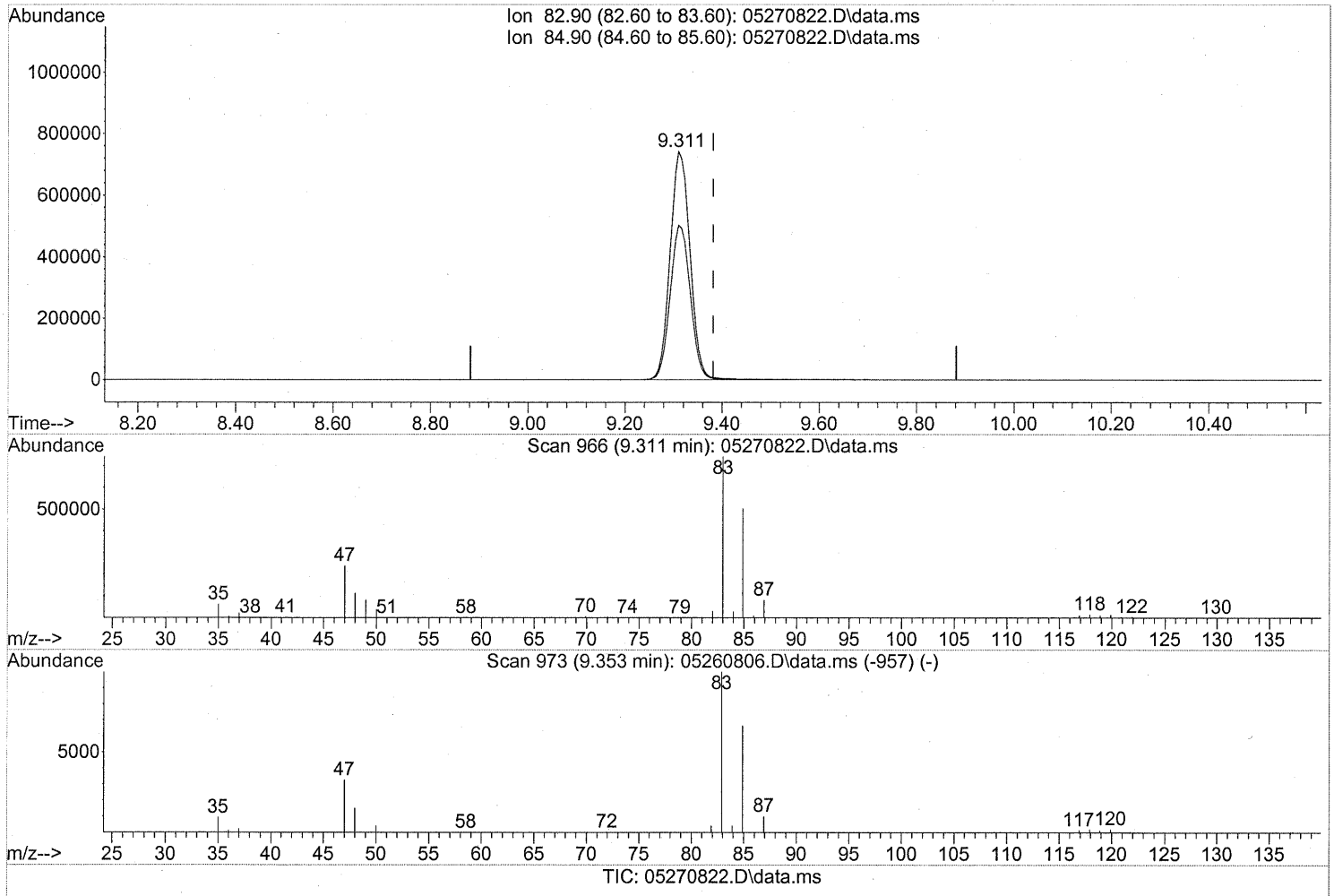
(#) = qualifier out of range (m) = manual integration (+) = signals summed

750

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270822.D
Acq On : 28 May 2008 2:17
Operator : WA
Sample : P0801507-008 Dup Dil (20ml)
Misc : ENSR SG56B-05 (-3.8, 3.5)
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 28 04:48:40 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270822.D\data.ms

(32) Chloroform (T)

9.311min (-0.071) 88.70ng

response 2090923

Ion	Exp%	Act%
82.90	100	100
84.90	64.60	68.42
0.00	0.00	0.00
0.00	0.00	0.00

751

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507

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

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 05270801.D
Analyst: Wida Ang Date Analyzed: 5/27/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 10:18
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	416189	9.22	1740493	11.36	689026	16.45
	Upper Limit	582665	9.55	2436690	11.69	964636	16.78
	Lower Limit	249713	8.89	1044296	11.03	413416	16.12
	Client Sample ID						
01	Method Blank	411633	9.19	1710469	11.34	681215	16.44
02	Lab Control Sample	406006	9.23	1679145	11.37	677576	16.45
03	SG77B-05	416586	9.20	1711385	11.34	684381	16.45
04	SG77B-05 (Dilution)	414826	9.19	1697256	11.34	680501	16.44
05	SG30B-05	407143	9.20	1685075	11.35	671836	16.45
06	SG59B-05	406437	9.20	1677305	11.35	674760	16.45
07	SG31B-05 (Dilution)	402647	9.19	1659207	11.34	667638	16.45
08	SG56B-05	400661	9.20	1646575	11.35	663053	16.45
09	SG56B-05 (Lab Duplicate)	392730	9.20	1634694	11.35	660800	16.45
10	SG56B-05D (Dilution)	390553	9.19	1634882	11.34	658250	16.45
11	SG55B-05	390977	9.20	1623936	11.35	656497	16.45
12	SG57B-05	388924	9.20	1619160	11.35	656839	16.45
13	SG13B-05	380792	9.20	1597367	11.35	659426	16.45
14	SG15B-05	292426	9.17	1419564	11.33	494463	16.45
15	SG14B-05	379532	9.22	1577066	11.36	651799	16.45
16	SG06B-05	389303	9.20	1623961	11.35	666312	16.45
17	SG56B-05 (Dilution)	402096	9.19	1667992	11.34	682079	16.45
18	SG56B-05 (Lab Dup - Dilution)	399452	9.19	1672637	11.34	675510	16.45
19	SG13B-05 (Dilution)	403942	9.19	1653911	11.34	667568	16.45
20	SG15B-05 (Dilution)	394194	9.19	1641811	11.34	663545	16.45
21	SG14B-05 (Dilution)	388783	9.19	1614645	11.35	658561	16.45

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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507

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

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 05280801.D
Analyst: Wida Ang Date Analyzed: 5/28/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 08:29
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	393838	9.20	1621199	11.36	662879	16.45
	Upper Limit	551373	9.53	2269679	11.69	928031	16.78
	Lower Limit	236303	8.87	972719	11.03	397727	16.12
	Client Sample ID						
01	Method Blank	385506	9.19	1591554	11.34	648424	16.44
02	SG30B-05 (Dilution)	381474	9.19	1555272	11.34	637855	16.45
03	SG59B-05 (Dilution)	373915	9.19	1544249	11.34	627480	16.45
04	SG31B-05	370470	9.20	1515272	11.35	626252	16.45
05	SG56B-05D	369769	9.21	1533976	11.36	624528	16.45
06	SG55B-05 (Dilution)	372167	9.19	1552178	11.34	637423	16.44
07	SG57B-05 (Dilution)	379052	9.19	1549547	11.34	630197	16.44
08	SG29B-05	374160	9.20	1530320	11.35	627102	16.45
09	SG60B-05	371218	9.20	1523833	11.35	623724	16.45
10	Lab Control Sample	377949	9.22	1568486	11.36	642257	16.45
11	SG60B-05 (Dilution)	384373	9.19	1575449	11.34	645600	16.45
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
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IS3 (CBZ) = Chlorobenzene-d5

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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: 6/5/08

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Client: **ENSR** CAS Project ID: P0801507

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

Internal Standard Area and RT Summary

Test Code: EPA TO-15
Instrument ID: Tekmar AUTOCAN/Agilent 5975Cinert/6890N/MS16 Lab File ID: 05290801.D
Analyst: Wida Ang Date Analyzed: 5/29/08
Sampling Media: 6.0 L Summa Canister(s) Time Analyzed: 08:31
Test Notes:

		IS1 (BCM)		IS2 (DFB)		IS3 (CBZ)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	24 Hour Standard	383231	9.22	1598146	11.36	654560	16.45
	Upper Limit	536523	9.55	2237404	11.69	916384	16.78
	Lower Limit	229939	8.89	958888	11.03	392736	16.12
	Client Sample ID						
01	Method Blank	381746	9.19	1582084	11.34	649804	16.44
02	SG29B-05 (Dilution)	381287	9.19	1569012	11.34	645319	16.44
03	SG58B-05 (Dilution)	377706	9.19	1560046	11.34	639445	16.44
04	SG58B-05	372594	9.20	1531812	11.35	629311	16.45
05	Lab Control Sample	366705	9.23	1518501	11.36	629252	16.45
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

IS1 (BCM) = Bromochloromethane
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AREA LOWER LIMIT = 60% of internal standard area
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Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Verified By: _____ Date: 6/5/08

INITIAL CALIBRATION STANDARDS

Method Path : J:\MS16\METHODS\
Method File : R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:40:29 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05260802.D 0.5 =05260803.D 1.0 =05260804.D 5.0 =05260805.D 25 =05260806.D 50 =05260807.D
100 =05260808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane...	----------	----------	ISTD	----------	----------	----------	----------		
2)	T	Propene	2.444	2.097	1.940	1.928	1.663	1.773	1.701	1.935	13.99
3)	T	Dichlorodifluo...	2.901	2.773	2.458	2.316	1.960	2.006	1.970	2.341	16.63
4)	T	Chloromethane	4.012	3.745	3.438	2.716	2.621	2.315	1.740	2.941	27.86
5)	T	Freon 114	1.445	1.581	1.407	1.316	1.143	1.144	1.122	1.308	13.68
6)	T	Vinyl Chloride	2.224	2.268	1.999	1.846	1.583	1.613	1.578	1.873	15.94
7)	T	1,3-Butadiene	1.944	1.968	1.749	1.614	1.529	1.588	1.559	1.707	10.75
8)	T	Bromomethane	1.225	1.182	1.083	0.849	0.840	0.831	0.750	0.965	19.92
9)	T	Chloroethane	1.200	1.100	1.063	0.944	0.813	0.832	0.823	0.968	16.01
10)	T	Ethanol	1.010	1.626	1.513	1.402	1.199	1.212	1.229	1.313	16.10
11)	T	Acetonitrile		4.677	4.201	3.811	3.336	3.350	3.336	3.785	14.77
12)	T	Acrolein		1.160	0.992	0.885	0.858	0.884	0.901	0.947	12.07
13)	T	Acetone			1.837	1.479	1.065	1.070	1.080	1.306	26.44
14)	T	Trichlorofluor...	2.526	2.543	2.318	2.144	1.909	1.952	1.949	2.191	12.49
15)	T	Isopropanol		5.466	4.971	3.559	3.522	3.086	3.005	3.935	26.20
16)	T	Acrylonitrile	2.464	2.648	2.469	2.396	2.183	2.227	2.233	2.374	7.11
17)	T	1,1-Dichloroet...	1.099	1.203	1.093	1.009	0.910	0.917	0.926	1.023	11.04
18)	T	tert-Butanol	4.544	4.581	4.131	3.794	3.354	3.352	1.924	3.669	25.06
19)	T	Methylene Chlo...		1.283	1.125	1.008	0.877	0.873	0.878	1.008	16.72
20)	T	Allyl Chloride	2.410	2.579	2.365	2.406	2.122	2.176	2.199	2.322	7.02
21)	T	Trichlorotrifl...	1.182	1.274	1.161	1.058	0.927	0.930	0.921	1.065	13.54
22)	T	Carbon Disulfide		4.991	4.319	3.940	3.651	3.695	3.719	4.053	12.89
23)	T	trans-1,2-Dich...	2.334	2.294	2.105	1.981	1.783	1.793	1.808	2.014	11.72
24)	T	1,1-Dichloroet...	2.310	2.391	2.329	2.147	1.911	1.935	1.948	2.139	9.72
25)	T	Methyl tert-Bu...	3.576	3.611	3.308	3.092	2.728	2.769	2.774	3.123	12.27
26)	T	Vinyl Acetate		0.252	0.249	0.225	0.192	0.193	0.172	0.214	15.57
27)	T	2-Butanone	0.778	0.799	0.738	0.699	0.603	0.611	0.553	0.683	13.93
28)	T	cis-1,2-Dichlo...	1.986	2.207	1.969	1.848	1.634	1.656	1.666	1.852	11.63
29)	T	Diisopropyl Ether	0.997	1.028	0.963	0.914	0.806	0.802	0.786	0.900	11.24
30)	T	Ethyl Acetate		0.552	0.508	0.496	0.434	0.441	0.428	0.477	10.44
31)	T	n-Hexane	3.461	3.260	3.018	2.769	2.477	2.492	2.461	2.848	14.30

956

5/29/08

Method Path : J:\MS16\METHODS\
Method File : R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

32)	T	Chloroform	1.667	1.699	1.588	1.456	1.294	1.304	1.319	1.475	11.94
33)	S	1,2-Dichloroet...	1.417	1.427	1.431	1.413	1.408	1.446	1.465	1.430	1.41
34)	T	Tetrahydrofuran	0.636	0.752	0.727	0.673	0.596	0.564	0.545	0.642	12.36
35)	T	Ethyl tert-But...	1.442	1.505	1.386	1.310	1.188	1.196	1.191	1.317	9.94
36)	T	1,2-Dichloroet...	1.868	1.953	1.838	1.682	1.496	1.505	1.498	1.691	11.62
37)	IR	1,4-Difluorobenzen...	----------ISTD----------								
38)	T	1,1,1-Trichlor...	0.506	0.493	0.465	0.413	0.370	0.369	0.364	0.426	14.51
39)	T	Isopropyl Acetate	0.207	0.249	0.229	0.213	0.197	0.193	0.191	0.211	10.09
40)	T	1-Butanol	0.492	0.459	0.423	0.408	0.369	0.367	0.362	0.411	12.24
41)	T	Benzene	1.572	1.222	1.099	0.961	0.853	0.837	0.834	1.054	25.77
42)	T	Carbon Tetrach...	0.481	0.494	0.462	0.428	0.389	0.386	0.386	0.432	10.86
43)	T	Cyclohexane	0.590	0.475	0.444	0.382	0.338	0.330	0.326	0.412	23.71
44)	T	tert-Amyl Meth...	0.790	0.779	0.752	0.698	0.637	0.630	0.627	0.702	10.26
45)	T	1,2-Dichloropr...	0.363	0.352	0.339	0.312	0.274	0.271	0.268	0.311	13.13
46)	T	Bromodichlorom...	0.345	0.350	0.338	0.308	0.281	0.275	0.271	0.310	11.13
47)	T	Trichloroethene	0.385	0.373	0.356	0.325	0.292	0.285	0.281	0.328	13.26
48)	T	1,4-Dioxane	0.211	0.228	0.212	0.203	0.180	0.175	0.170	0.197	11.21
49)	T	Isooctane	1.893	1.963	1.815	1.643	1.520	1.483	1.479	1.685	12.11
50)	T	Methyl Methacr...		0.119	0.121	0.117	0.109	0.107	0.105	0.113	5.82
51)	T	n-Heptane	0.265	0.301	0.272	0.260	0.227	0.221	0.216	0.252	12.54
52)	T	cis-1,3-Dichlo...	0.417	0.444	0.417	0.397	0.363	0.357	0.351	0.392	9.16
53)	T	4-Methyl-2-pen...	0.408	0.415	0.383	0.370	0.335	0.330	0.324	0.366	10.24
54)	T	trans-1,3-Dich...	0.400	0.402	0.371	0.360	0.335	0.330	0.333	0.362	8.51
55)	T	1,1,2-Trichlor...	0.289	0.296	0.273	0.255	0.231	0.227	0.225	0.256	11.68
56)	I	Chlorobenzene-d5 (...	----------ISTD----------								
57)	S	Toluene-d8 (SS2)	2.647	2.610	2.596	2.564	2.537	2.557	2.531	2.577	1.64
58)	T	Toluene	3.867	3.439	3.121	2.811	2.452	2.424	2.352	2.924	19.79
59)	T	2-Hexanone	3.643	3.252	2.862	2.682	2.367	2.323	2.198	2.761	19.28
60)	T	Dibromochlorom...	1.065	0.974	0.869	0.842	0.766	0.771	0.753	0.863	13.68
61)	T	1,2-Dibromoethane	0.966	0.927	0.868	0.780	0.703	0.699	0.676	0.803	14.71
62)	T	Butyl Acetate	3.185	3.110	2.978	2.782	2.526	2.486	2.366	2.776	11.71
63)	T	n-Octane	0.969	1.069	0.956	0.888	0.787	0.775	0.744	0.884	13.68
64)	T	Tetrachloroethene	1.109	1.019	0.904	0.848	0.738	0.728	0.708	0.865	17.95
65)	T	Chlorobenzene	2.545	2.511	2.242	2.033	1.782	1.765	1.705	2.083	17.08
66)	T	Ethylbenzene	4.040	3.875	3.573	3.229	2.895	2.860	2.790	3.323	15.40
67)	T	m- & p-Xylene	2.730	2.589	2.359	2.125	1.890	1.882	1.838	2.202	16.49
68)	T	Bromoform	0.525	0.556	0.522	0.502	0.470	0.470	0.461	0.501	7.07
69)	T	Styrene	2.473	2.355	2.254	2.112	1.927	1.910	1.857	2.127	11.33
70)	T	o-Xylene	2.994	2.720	2.495	2.298	2.028	2.009	1.951	2.357	16.92

757

KT 5/29/08

Method Path : J:\MS16\METHODS\
Method File : R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)

71)	T	n-Nonane	2.773	2.752	2.539	2.311	2.045	2.001	1.857	2.326	16.02
72)	T	1,1,2,2-Tetrac...	1.256	1.091	1.046	0.955	0.851	0.834	0.798	0.976	16.95
73)	S	Bromofluoroben...	0.838	0.834	0.839	0.860	0.871	0.879	0.876	0.857	2.28
74)	T	Cumene	4.104	3.951	3.678	3.336	3.016	3.000	2.930	3.431	14.10
75)	T	alpha-Pinene	1.698	1.847	1.738	1.646	1.472	1.458	1.410	1.610	10.28
76)	T	n-Propylbenzene	4.743	4.567	4.278	3.896	3.518	3.505	3.401	3.987	13.73
77)	T	3-Ethyltoluene	4.606	4.309	4.000	3.583	3.282	3.318	3.248	3.764	14.52
78)	T	4-Ethyltoluene	3.973	4.046	3.654	3.359	2.969	2.925	2.844	3.396	14.88
79)	T	1,3,5-Trimethy...	3.739	3.496	3.160	2.911	2.612	2.600	2.556	3.011	15.65
80)	T	alpha-Methylst...	1.762	1.883	1.785	1.693	1.601	1.588	1.539	1.693	7.33
81)	T	2-Ethyltoluene	4.139	4.277	3.896	3.588	3.255	3.230	3.160	3.649	12.60
82)	T	1,2,4-Trimethy...	3.785	3.556	3.273	2.934	2.627	2.616	2.545	3.048	16.31
83)	T	n-Decane	2.399	2.502	2.322	2.145	1.954	1.936	1.847	2.158	11.83
84)	T	Benzyl Chloride	2.706	2.532	2.395	2.308	2.192	2.197	2.156	2.355	8.65
85)	T	1,3-Dichlorobe...	2.431	2.236	2.072	1.850	1.668	1.658	1.603	1.931	16.65
86)	T	1,4-Dichlorobe...	2.325	2.177	2.007	1.795	1.630	1.618	1.573	1.875	15.92
87)	T	sec-Butylbenzene	4.523	4.638	4.226	3.881	3.516	3.487	3.409	3.954	12.97
88)	T	p-Isopropyltol...	3.843	4.080	3.699	3.394	3.101	3.082	2.983	3.455	12.34
89)	T	1,2,3-Trimethy...	3.413	3.395	3.104	2.842	2.614	2.597	2.523	2.927	12.96
90)	T	1,2-Dichlorobe...	2.181	2.133	1.892	1.712	1.546	1.510	1.436	1.773	17.05
91)	T	d-Limonene	0.939	1.091	0.989	0.957	0.880	0.874	0.844	0.939	8.99
92)	T	1,2-Dibromo-3-...	0.594	0.614	0.580	0.557	0.554	0.552	0.538	0.570	4.74
93)	T	n-Undecane	2.495	2.547	2.411	2.241	2.106	2.065	1.976	2.263	9.94
94)	T	1,2,4-Trichlor...	0.377	0.361	0.332	0.303	0.298	0.293	0.281	0.321	11.41
95)	T	Naphthalene	5.936	4.616	4.225	3.845	4.165	4.147	4.065	4.428	15.89
96)	T	n-Dodecane	2.335	2.463	2.276	2.162	2.126	2.090	1.984	2.205	7.37
97)	T	Hexachloro-1,3...	0.603	0.622	0.577	0.523	0.478	0.470	0.457	0.533	12.70

(#) = Out of Range

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-05210811
20ng/L Std. ID: S20-05210808
200ng/L Std. ID: S20-05210802

Dilution Factors:		5	50	250	ICAL Concentrations (Primary Source)							
					Working STD Conc.(ng/L):	4	20	20	20	200	200	200
	Source Std.	Primary Working Standards			Injection (L):	0.025	0.025	0.050	0.25	0.125	0.25	0.50
Compounds	mg/m^3	200ng/L	20ng/L	4ng/L	ICAL Points:	0.1ng	0.5ng	1ng	5ng	25ng	50ng	100ng
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

5/29/08

Primary Source Standards Concentrations
(Working & Initial Calibration)

4ng/L Std. ID: S20-05210811
20ng/L Std. ID: S20-05210808
200ng/L Std. ID: S20-05210802

Dilution Factors:		5	50	250	Working STD Conc.(ng/L):	ICAL Concentrations (Primary Source) 4	20	20	20	200	200	200
	Source Std.	Primary Working Standards			Injection (L):	0.025	0.025	0.05	0.25	0.125	0.25	0.50
Compounds	mg/m^3	200ng/L	20ng/L	4ng/L	ICAL Points:	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.

JDH 5/29/08

Method Path : J:\MS16\METHODS\
Method File : R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:50:43 2008
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS16\DATA\2008_05\26\05260802.D
2	0.5	1	25	J:\MS16\DATA\2008_05\26\05260803.D
3	1.0	1	25	J:\MS16\DATA\2008_05\26\05260804.D
4	5.0	5	25	J:\MS16\DATA\2008_05\26\05260805.D
5	25	27	25	J:\MS16\DATA\2008_05\26\05260806.D
6	50	54	25	J:\MS16\DATA\2008_05\26\05260807.D
7	100	108	25	J:\MS16\DATA\2008_05\26\05260808.D

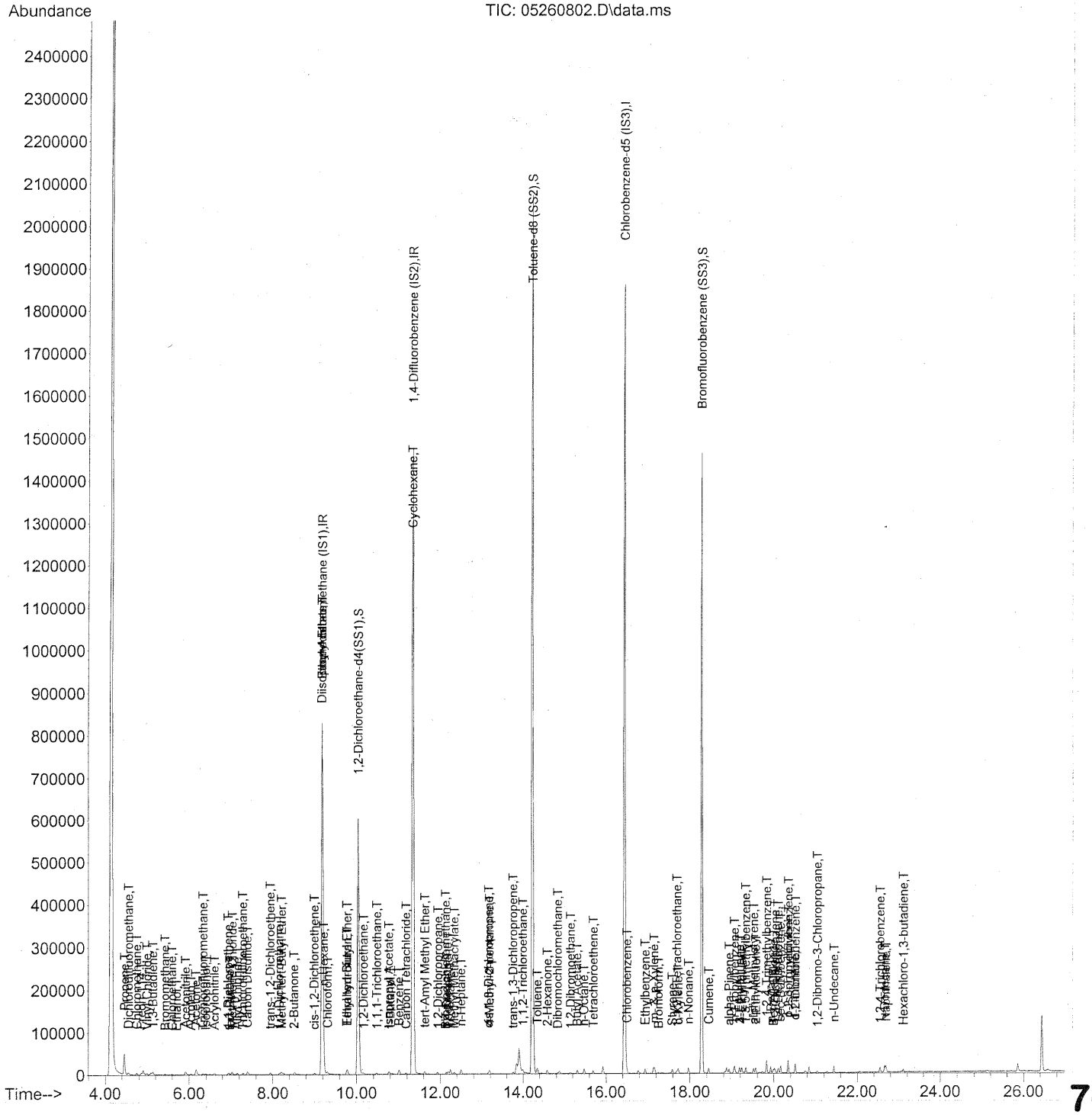
#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	May 27 08:39 2008	May 27 08:13 2008	26 May 2008 4:36 pm
2	0.5	May 27 08:39 2008	May 27 08:17 2008	26 May 2008 5:14 pm
3	1.0	May 27 08:39 2008	May 27 08:21 2008	26 May 2008 5:51 pm
4	5.0	May 27 08:39 2008	May 27 08:23 2008	26 May 2008 6:36 pm
5	25	May 27 08:40 2008	May 27 08:25 2008	26 May 2008 7:14 pm
6	50	May 27 08:40 2008	May 27 08:35 2008	26 May 2008 7:52 pm
7	100	May 27 08:40 2008	May 27 08:38 2008	26 May 2008 8:30 pm

R16052608.M Thu May 29 11:50:14 2008

SR 5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:13:11 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:13:11 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	400141	25.000	ng		-0.07
37) 1,4-Difluorobenzene (IS2)	11.34	114	1673816	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	627739	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	566923	20.091	ng		-0.05
Spiked Amount 25.000			Recovery =	80.36%			
57) Toluene-d8 (SS2)	14.22	98	1661708	26.885	ng		-0.02
Spiked Amount 25.000			Recovery =	107.52%			
73) Bromofluorobenzene (SS3)	18.28	174	526226	32.713	ng		-0.01
Spiked Amount 25.000			Recovery =	130.84%			
Target Compounds							Qvalue
2) Propene	4.46	42	4224	0.106	ng		96
3) Dichlorodifluoromethane	4.56	85	4829	0.102	ng		95
4) Chloromethane	4.75	50	6550	0.112	ng		91
5) Freon 114	4.86	135	2475	0.108	ng		100
6) Vinyl Chloride	5.00	62	3667	0.091	ng		94
7) 1,3-Butadiene	5.14	54	3391	0.090	ng		92
8) Bromomethane	5.43	94	2058	0.124	ng		94
9) Chloroethane	5.60	64	2016	0.109	ng		82
10) Ethanol	5.71	45	1471	0.053	ng	#	50
11) Acetonitrile	5.92	41	13158	0.184	ng		76
12) Acrolein	6.05	56	2744	0.140	ng		99
13) Acetone	6.16	58	8349	0.316	ng	#	64
14) Trichlorofluoromethane	6.33	101	4204	0.107	ng		92
15) Isopropanol	6.40	45	9894m	0.115	ng		
16) Acrylonitrile	6.61	53	3984	0.085	ng		92
17) 1,1-Dichloroethene	6.94	96	1987	0.104	ng	#	80
18) tert-Butanol	6.98	59	7419m	0.095	ng		
19) Methylene Chloride	7.04	84	3045	0.146	ng	#	52
20) Allyl Chloride	7.15	41	4050	0.093	ng		71
21) Trichlorotrifluoroethane	7.28	151	2157	0.131	ng		88
22) Carbon Disulfide	7.40	76	12879	0.163	ng		97
23) trans-1,2-Dichloroethene	7.94	61	4109	0.100	ng		92
24) 1,1-Dichloroethane	8.16	63	4104	0.088	ng		91
25) Methyl tert-Butyl Ether	8.21	73	6354	0.101	ng		87
26) Vinyl Acetate	8.23	86	205	N.D.			
27) 2-Butanone	8.52	72	1394	0.102	ng	#	1
28) cis-1,2-Dichloroethene	9.00	61	3528	0.093	ng		98
29) Diisopropyl Ether	9.18	87	1644	0.095	ng	#	13
30) Ethyl Acetate	9.19	61	737	0.073	ng	#	34
31) n-Hexane	9.23	57	6205	0.109	ng		80

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:13:11 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	3442	0.115	ng		99
34) Tetrahydrofuran	9.77	72	1130	0.083	ng	#	5
35) Ethyl tert-Butyl Ether	9.77	87	2423	0.099	ng	#	80
36) 1,2-Dichloroethane	10.16	62	3289	0.092	ng		69
38) 1,1,1-Trichloroethane	10.48	97	3727	0.116	ng		93
39) Isopropyl Acetate	10.77	61	1401	0.082	ng	#	40
40) 1-Butanol	10.80	56	2998	0.095	ng	#	1
41) Benzene	11.01	78	11577	0.141	ng		97
42) Carbon Tetrachloride	11.18	117	3444	0.142	ng		92
43) Cyclohexane	11.33	84	4388	0.135	ng	#	1
44) tert-Amyl Methyl Ether	11.63	73	5499	0.095	ng		76
45) 1,2-Dichloropropane	11.94	63	2646	0.104	ng		96
46) Bromodichloromethane	12.13	83	2654	0.109	ng		97
47) Trichloroethene	12.18	130	2936	0.130	ng		92
48) 1,4-Dioxane	12.16	88	1628	0.106	ng	#	68
49) Isooctane	12.24	57	13181	0.097	ng		99
50) Methyl Methacrylate	12.34	100	515	0.064	ng	#	89
51) n-Heptane	12.51	71	1969	0.094	ng	#	39
52) cis-1,3-Dichloropropene	13.16	75	2905	0.089	ng		93
53) 4-Methyl-2-pentanone	13.18	58	2871	0.096	ng	#	60
54) trans-1,3-Dichloropropene	13.76	75	3109	0.108	ng		89
55) 1,1,2-Trichloroethane	13.99	97	2106	0.106	ng		93
58) Toluene	14.34	91	10682	0.141	ng		98
59) 2-Hexanone	14.59	43	9331	0.117	ng		91
60) Dibromochloromethane	14.83	129	2967	0.150	ng		84
61) 1,2-Dibromoethane	15.15	107	2643	0.135	ng		99
62) Butyl Acetate	15.31	43	8397	0.103	ng		93
63) n-Octane	15.47	57	2530	0.104	ng	#	66
64) Tetrachloroethene	15.69	166	3035	0.162	ng		90
65) Chlorobenzene	16.50	112	7030	0.140	ng		98
66) Ethylbenzene	16.94	91	10957	0.127	ng		95
67) m- & p-Xylene	17.15	91	17683	0.312	ng		92
68) Bromoform	17.26	173	1727	0.162	ng		77
69) Styrene	17.59	104	6707	0.128	ng		95
70) o-Xylene	17.73	91	9171	0.152	ng		95
71) n-Nonane	17.97	43	7173	0.108	ng		93
72) 1,1,2,2-Tetrachloroethane	17.70	83	3879	0.146	ng		96
74) Cumene	18.45	105	11130	0.132	ng		94
75) alpha-Pinene	18.93	93	4520	0.110	ng		98
76) n-Propylbenzene	19.06	91	12504	0.118	ng		74
77) 3-Ethyltoluene	19.19	105	11797	0.129	ng		97
78) 4-Ethyltoluene	19.24	105	11073	0.133	ng		90
79) 1,3,5-Trimethylbenzene	19.33	105	10140	0.139	ng		93

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:13:11 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

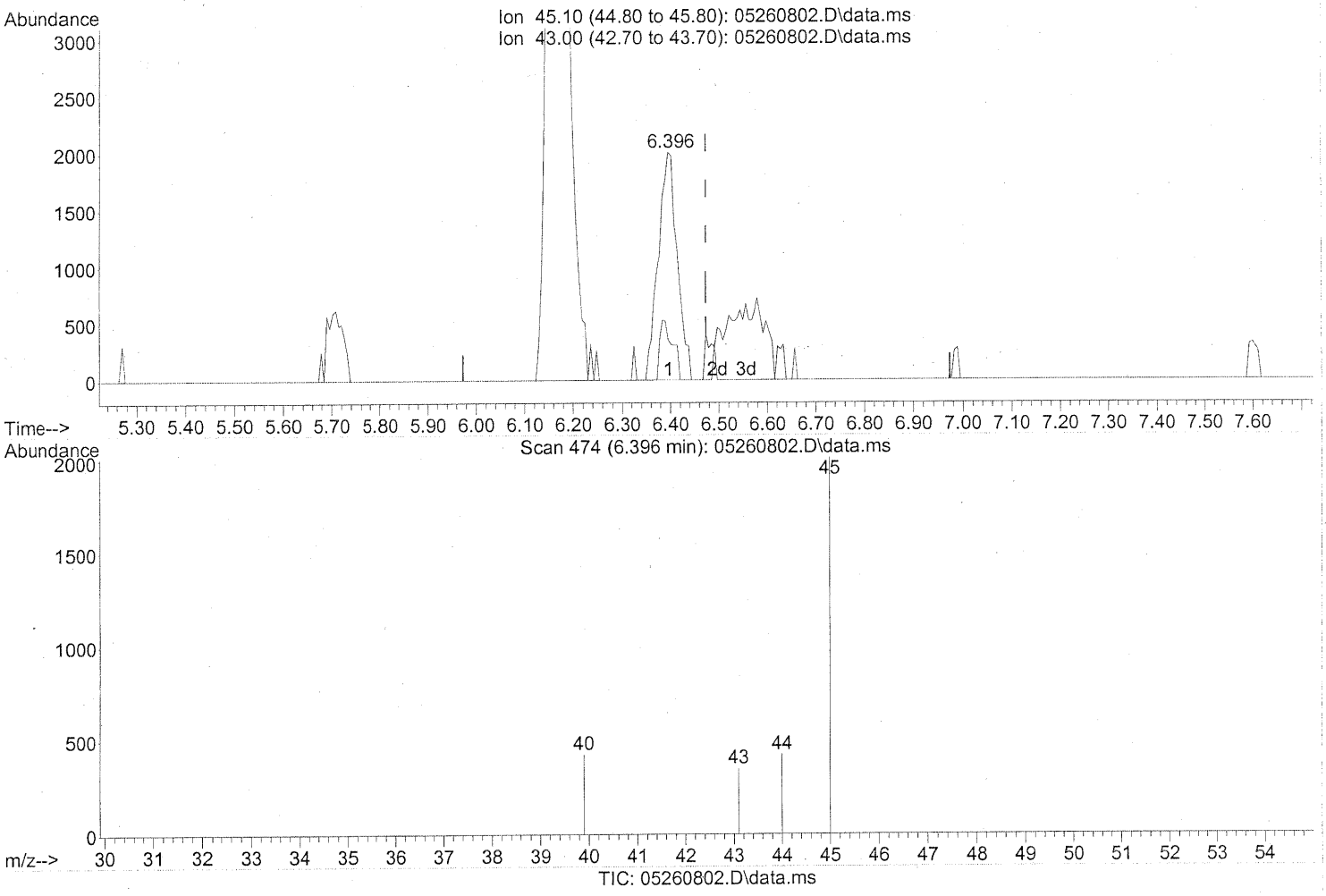
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	4513	0.114	ng		98
81) 2-Ethyltoluene	19.56	105	10288	0.114	ng		92
82) 1,2,4-Trimethylbenzene	19.83	105	10455	0.138	ng		92
83) n-Decane	19.93	57	6264	0.104	ng		80
84) Benzyl Chloride	19.99	91	7269	0.115	ng		92
85) 1,3-Dichlorobenzene	20.02	146	6470	0.147	ng		97
86) 1,4-Dichlorobenzene	20.10	146	6421	0.153	ng		95
87) sec-Butylbenzene	20.16	105	12151	0.123	ng		95
88) p-Isopropyltoluene	20.34	119	11386	0.136	ng		96
89) 1,2,3-Trimethylbenzene	20.34	105	9426	0.128	ng		91
90) 1,2-Dichlorobenzene	20.52	146	5914	0.145	ng		92
91) d-Limonene	20.51	68	2499	0.092	ng		82
92) 1,2-Dibromo-3-Chloropr...	21.04	157	1552	0.121	ng	#	83
93) n-Undecane	21.44	57	6578	0.104	ng		76
94) 1,2,4-Trichlorobenzene	22.55	184	1060	0.150	ng	#	65
95) Naphthalene	22.69	128	15651	0.146	ng		96
96) n-Dodecane	22.66	57	6214	0.101	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	1680	0.159	ng		89

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

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:12:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.396min (-0.077) 0.06ng

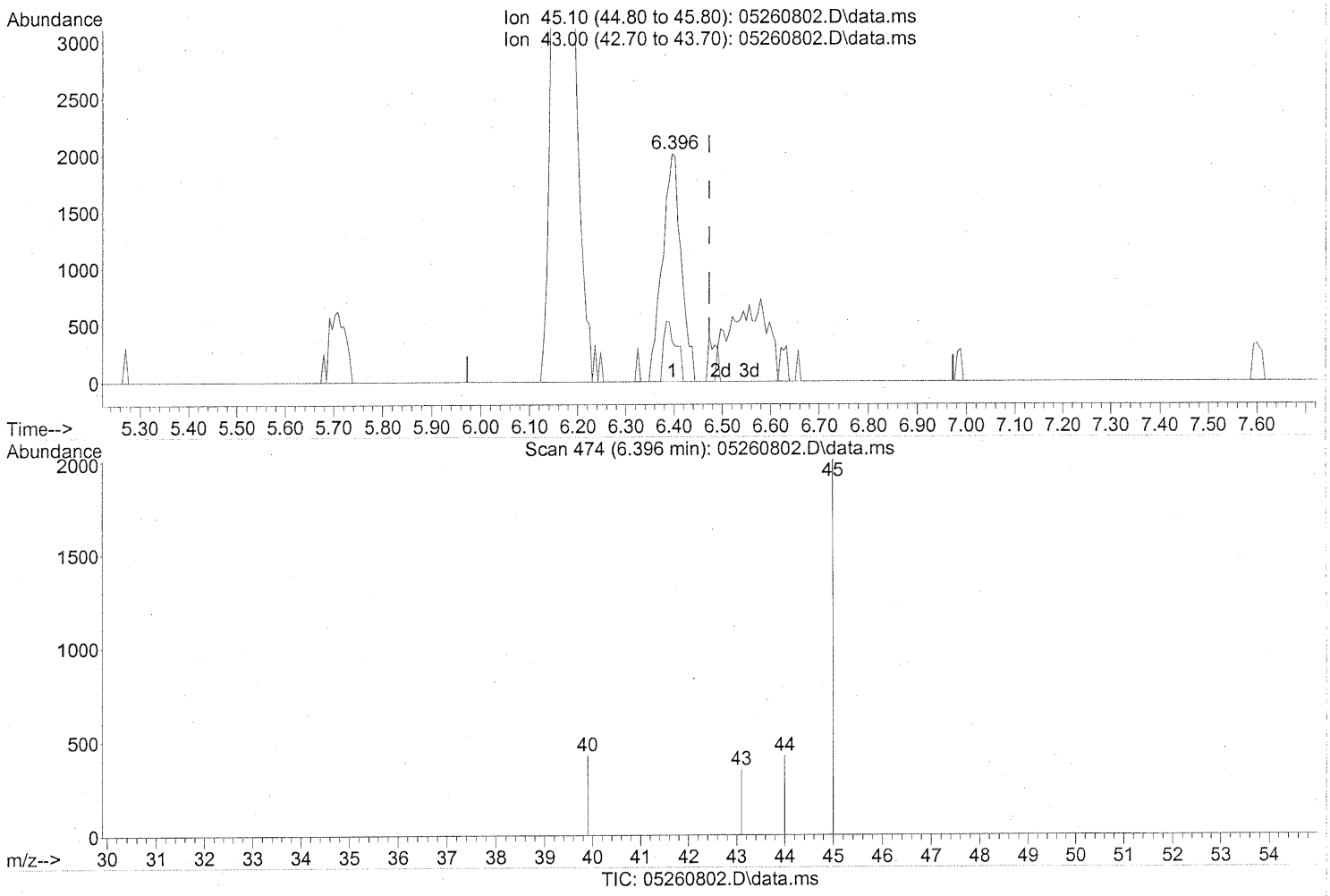
response 5444

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	17.60
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:12:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.396min (-0.077) 0.12ng m

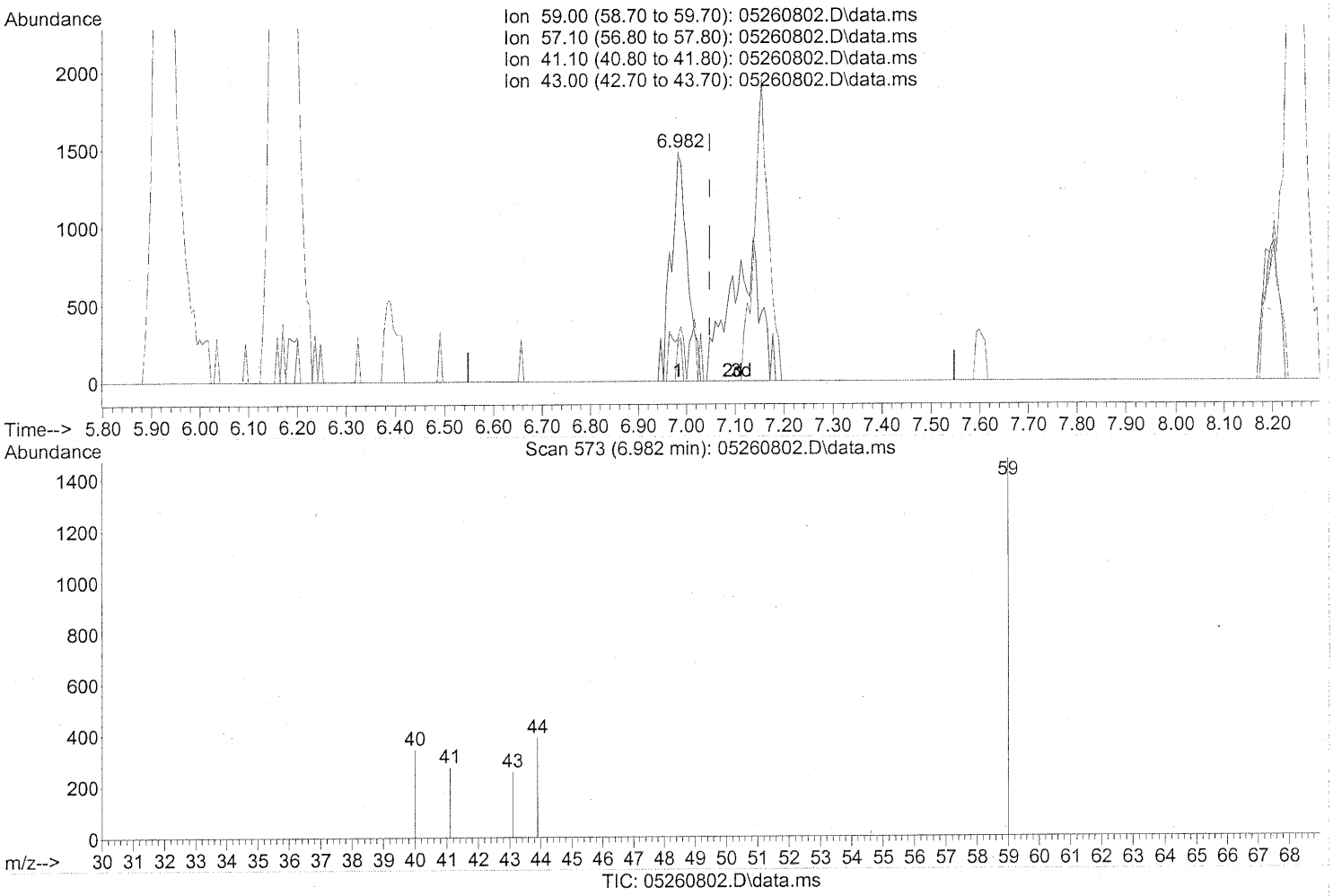
response 9894

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	9.68
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
KM 5/29/08
Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:12:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.982min (-0.065) 0.04ng

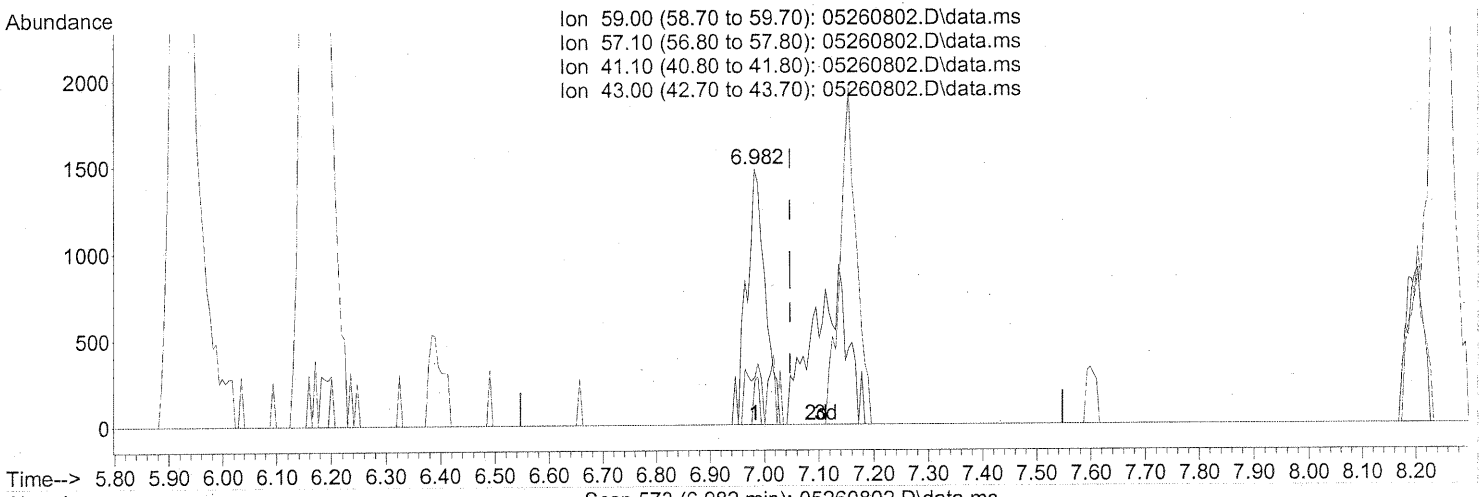
response 3488

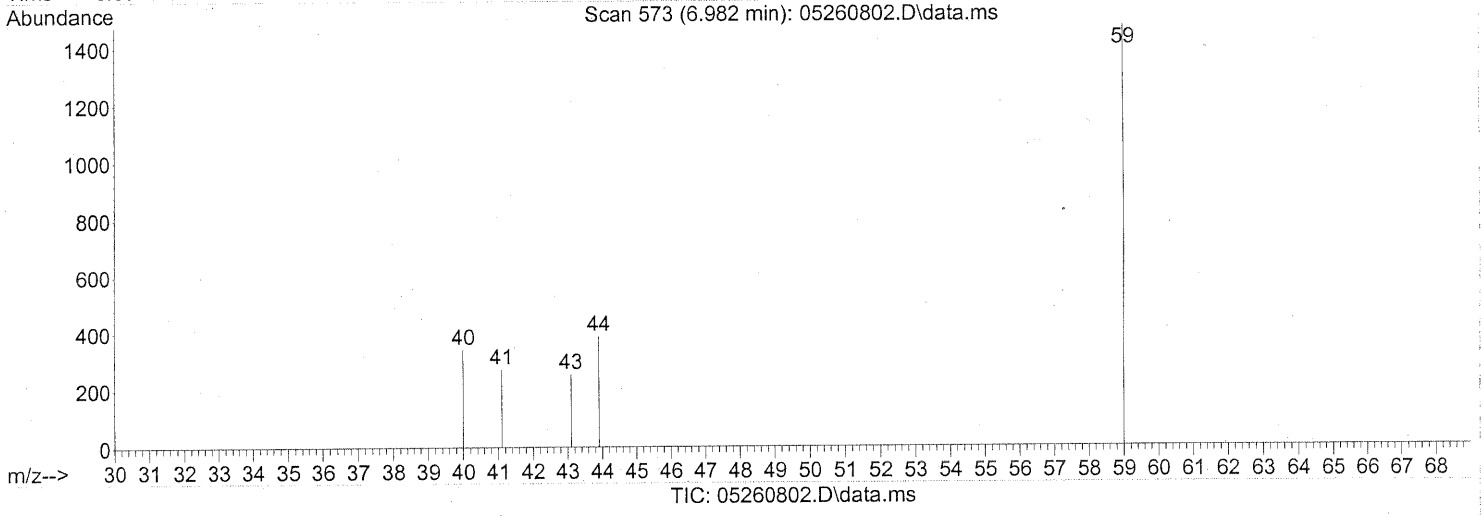
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	17.95
43.00	17.20	5.48

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 4:36 pm
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 27 08:12:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260802.D\data.ms

(18) tert-Butanol (T)

6.982min (-0.065) 0.10ng m

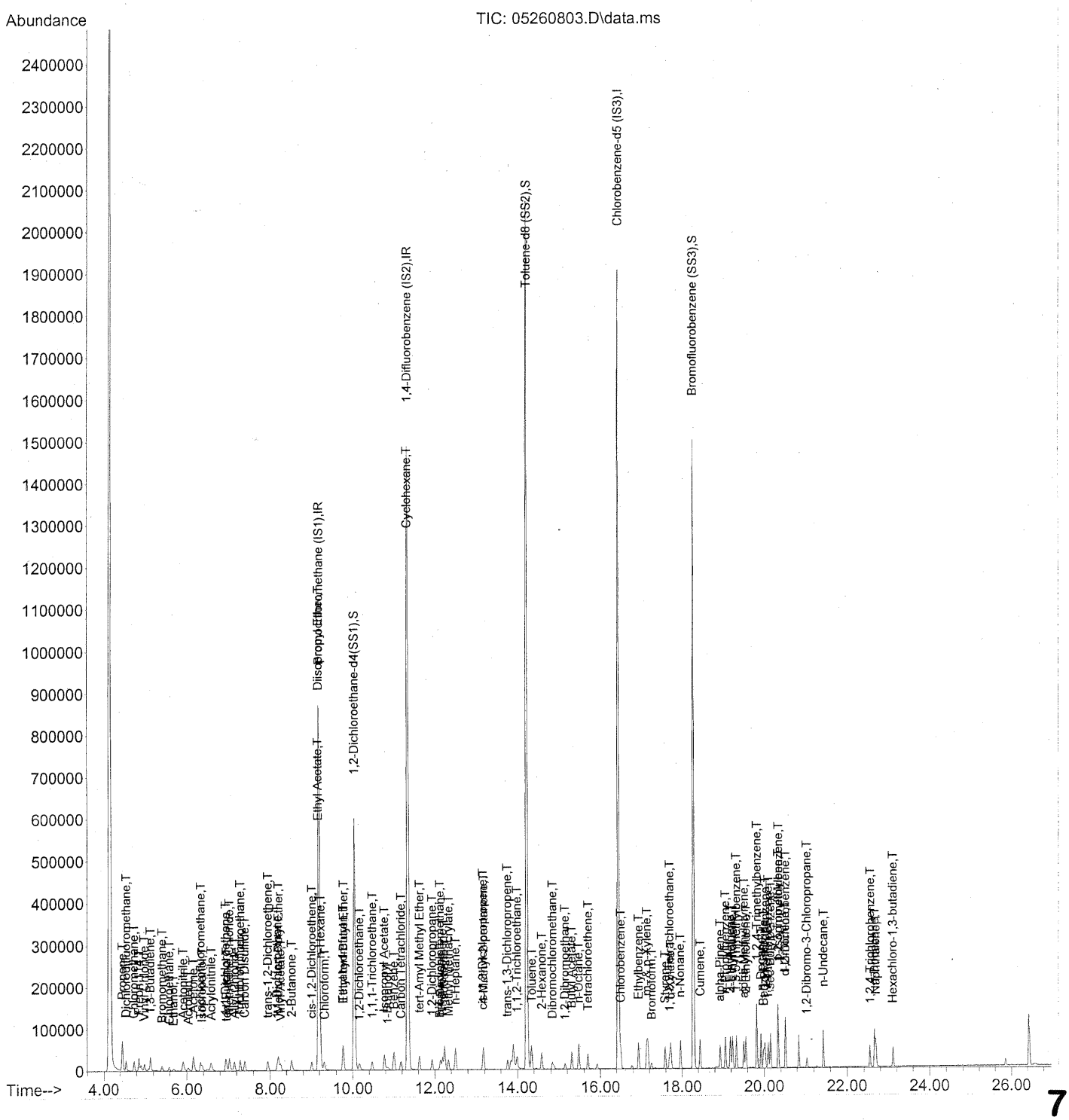
response 7419

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	8.44
43.00	17.20	2.57

int. whole peaks
MA 5/29/08
Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:17:54 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:17:54 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	401927	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1681603	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	646123	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	573396	20.231	ng		-0.05
Spiked Amount 25.000			Recovery = 80.92%				
57) Toluene-d8 (SS2)	14.23	98	1686339	26.507	ng		-0.02
Spiked Amount 25.000			Recovery = 106.04%				
73) Bromofluorobenzene (SS3)	18.28	174	538778	32.540	ng		-0.01
Spiked Amount 25.000			Recovery = 130.16%				
Target Compounds							Qvalue
2) Propene	4.45	42	18207	0.453	ng		96
3) Dichlorodifluoromethane	4.55	85	23186	0.488	ng		98
4) Chloromethane	4.74	50	30704	0.523	ng		98
5) Freon 114	4.85	135	13598	0.593	ng		98
6) Vinyl Chloride	4.98	62	18778	0.463	ng		95
7) 1,3-Butadiene	5.13	54	17240	0.455	ng	#	86
8) Bromomethane	5.42	94	9975	0.597	ng		100
9) Chloroethane	5.58	64	9285	0.501	ng		89
10) Ethanol	5.68	45	11895m	0.430	ng		
11) Acetonitrile	5.92	41	36843	0.513	ng		93
12) Acrolein	6.04	56	8955	0.455	ng		97
13) Acetone	6.16	58	20065	0.756	ng	#	67
14) Trichlorofluoromethane	6.33	101	21258	0.541	ng		97
15) Isopropanol	6.37	45	45256m	0.526	ng		
16) Acrylonitrile	6.60	53	21501	0.455	ng		99
17) 1,1-Dichloroethene	6.93	96	10929	0.568	ng		97
18) tert-Butanol	6.96	59	37559m	0.480	ng		
19) Methylene Chloride	7.02	84	11554	0.551	ng	#	43
20) Allyl Chloride	7.15	41	21772	0.495	ng		74
21) Trichlorotrifluoroethane	7.28	151	11677	0.707	ng		86
22) Carbon Disulfide	7.39	76	40121	0.507	ng		99
23) trans-1,2-Dichloroethene	7.94	61	20284	0.493	ng		95
24) 1,1-Dichloroethane	8.16	63	21332	0.455	ng		94
25) Methyl tert-Butyl Ether	8.19	73	32217	0.511	ng		81
26) Vinyl Acetate	8.25	86	1989	0.369	ng	#	1
27) 2-Butanone	8.52	72	7197	0.526	ng	#	7
28) cis-1,2-Dichloroethene	9.01	61	19695	0.519	ng		92
29) Diisopropyl Ether	9.18	87	8514	0.489	ng	#	22
30) Ethyl Acetate	9.17	61	5631	0.556	ng		84
31) n-Hexane	9.23	57	29350	0.513	ng		91

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:17:54 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.32	83	17613	0.588	ng		95
34) Tetrahydrofuran	9.77	72	6712	0.489	ng	#	47
35) Ethyl tert-Butyl Ether	9.78	87	12699	0.514	ng	#	76
36) 1,2-Dichloroethane	10.16	62	17268	0.482	ng		97
38) 1,1,1-Trichloroethane	10.47	97	18245	0.564	ng		92
39) Isopropyl Acetate	10.77	61	8471	0.493	ng	#	70
40) 1-Butanol	10.85	56	14060	0.441	ng	#	1
41) Benzene	11.01	78	45203	0.548	ng		99
42) Carbon Tetrachloride	11.18	117	17774	0.728	ng		98
43) Cyclohexane	11.33	84	17716	0.543	ng	#	1
44) tert-Amyl Methyl Ether	11.63	73	27234	0.469	ng		74
45) 1,2-Dichloropropane	11.93	63	12919	0.505	ng		90
46) Bromodichloromethane	12.13	83	13522	0.552	ng		96
47) Trichloroethene	12.19	130	14284	0.629	ng		94
48) 1,4-Dioxane	12.14	88	8805	0.569	ng	#	60
49) Isooctane	12.24	57	68671	0.502	ng		93
50) Methyl Methacrylate	12.34	100	4242	0.521	ng	#	77
51) n-Heptane	12.50	71	11249	0.536	ng	#	52
52) cis-1,3-Dichloropropene	13.16	75	15530	0.472	ng		97
53) 4-Methyl-2-pentanone	13.18	58	14645	0.488	ng		86
54) trans-1,3-Dichloropropene	13.76	75	15667	0.539	ng		99
55) 1,1,2-Trichloroethane	13.99	97	10839	0.542	ng		96
58) Toluene	14.35	91	48882	0.627	ng		96
59) 2-Hexanone	14.58	43	42868	0.520	ng		95
60) Dibromochloromethane	14.84	129	13973	0.687	ng		97
61) 1,2-Dibromoethane	15.14	107	13056	0.649	ng		97
62) Butyl Acetate	15.31	43	42203	0.502	ng		93
63) n-Octane	15.47	57	14371	0.576	ng		92
64) Tetrachloroethene	15.69	166	14352	0.745	ng		99
65) Chlorobenzene	16.50	112	35691	0.692	ng		99
66) Ethylbenzene	16.94	91	54082	0.608	ng		95
67) m- & p-Xylene	17.14	91	86302	1.481	ng		92
68) Bromoform	17.26	173	9414	0.856	ng		97
69) Styrene	17.59	104	32872	0.609	ng		95
70) o-Xylene	17.73	91	42884	0.690	ng		91
71) n-Nonane	17.96	43	36634	0.534	ng		92
72) 1,1,2,2-Tetrachloroethane	17.70	83	17335	0.633	ng		91
74) Cumene	18.45	105	55143	0.635	ng		93
75) alpha-Pinene	18.93	93	25301	0.597	ng		95
76) n-Propylbenzene	19.06	91	61972	0.569	ng		89
77) 3-Ethyltoluene	19.19	105	56794	0.604	ng		95
78) 4-Ethyltoluene	19.24	105	58033	0.678	ng		92
79) 1,3,5-Trimethylbenzene	19.33	105	48794	0.648	ng		91

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

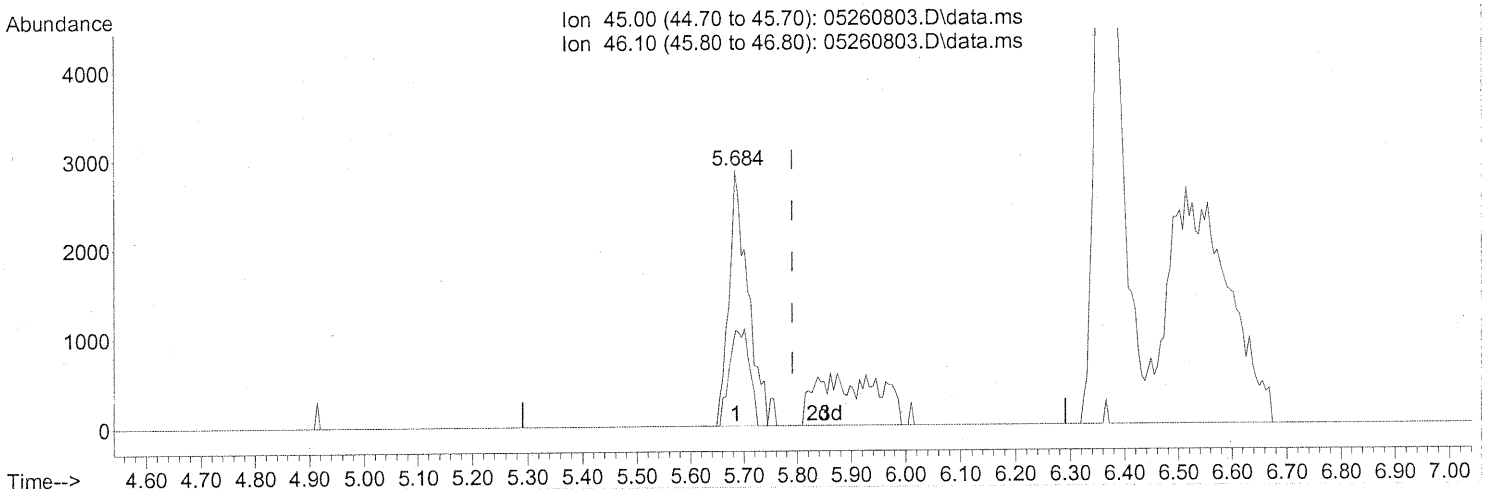
Quant Time: May 27 08:17:54 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

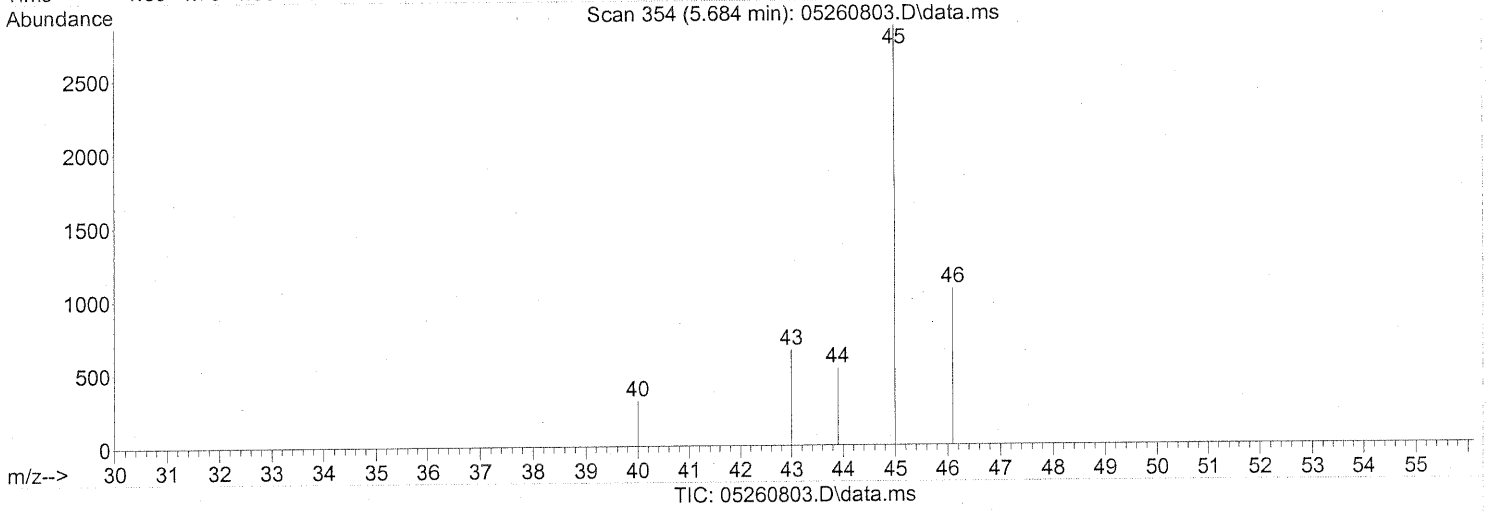
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	24814	0.607	ng		99
81) 2-Ethyltoluene	19.56	105	54713	0.587	ng		91
82) 1,2,4-Trimethylbenzene	19.83	105	50550	0.649	ng		90
83) n-Decane	19.93	57	33626	0.545	ng		79
84) Benzyl Chloride	19.99	91	35007	0.539	ng		89
85) 1,3-Dichlorobenzene	20.02	146	30633	0.678	ng		100
86) 1,4-Dichlorobenzene	20.10	146	30946	0.717	ng		98
87) sec-Butylbenzene	20.15	105	64132	0.632	ng		95
88) p-Isopropyltoluene	20.34	119	62212	0.722	ng		94
89) 1,2,3-Trimethylbenzene	20.34	105	48252	0.636	ng		88
90) 1,2-Dichlorobenzene	20.52	146	29763	0.710	ng		100
91) d-Limonene	20.51	68	14951	0.532	ng		92
92) 1,2-Dibromo-3-Chloropr...	21.03	157	8248	0.625	ng		89
93) n-Undecane	21.43	57	34558	0.532	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	5220	0.716	ng	#	88
95) Naphthalene	22.69	128	62628	0.568	ng		98
96) n-Dodecane	22.66	57	33735	0.533	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	8918	0.818	ng		93

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





(10) Ethanol (T)

5.684min (-0.107) 0.25ng

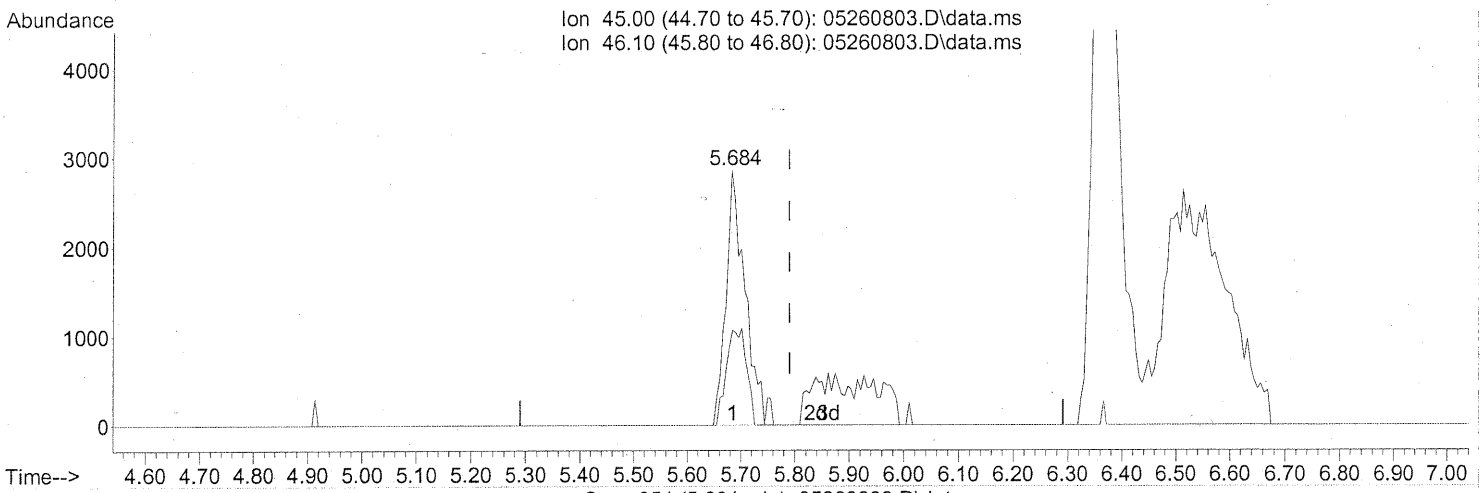
response 7042

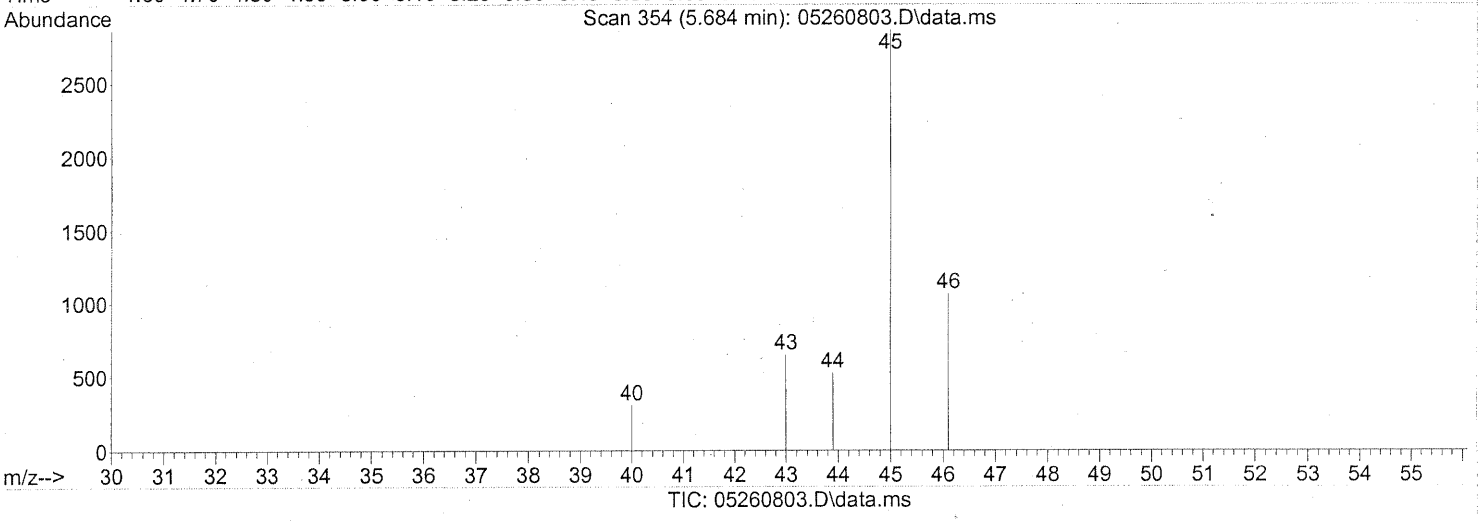
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.64
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260803.D\data.ms

(10) Ethanol (T)

5.684min (-0.107) 0.43ng m

response 11895

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	24.06
0.00	0.00	0.00
0.00	0.00	0.00

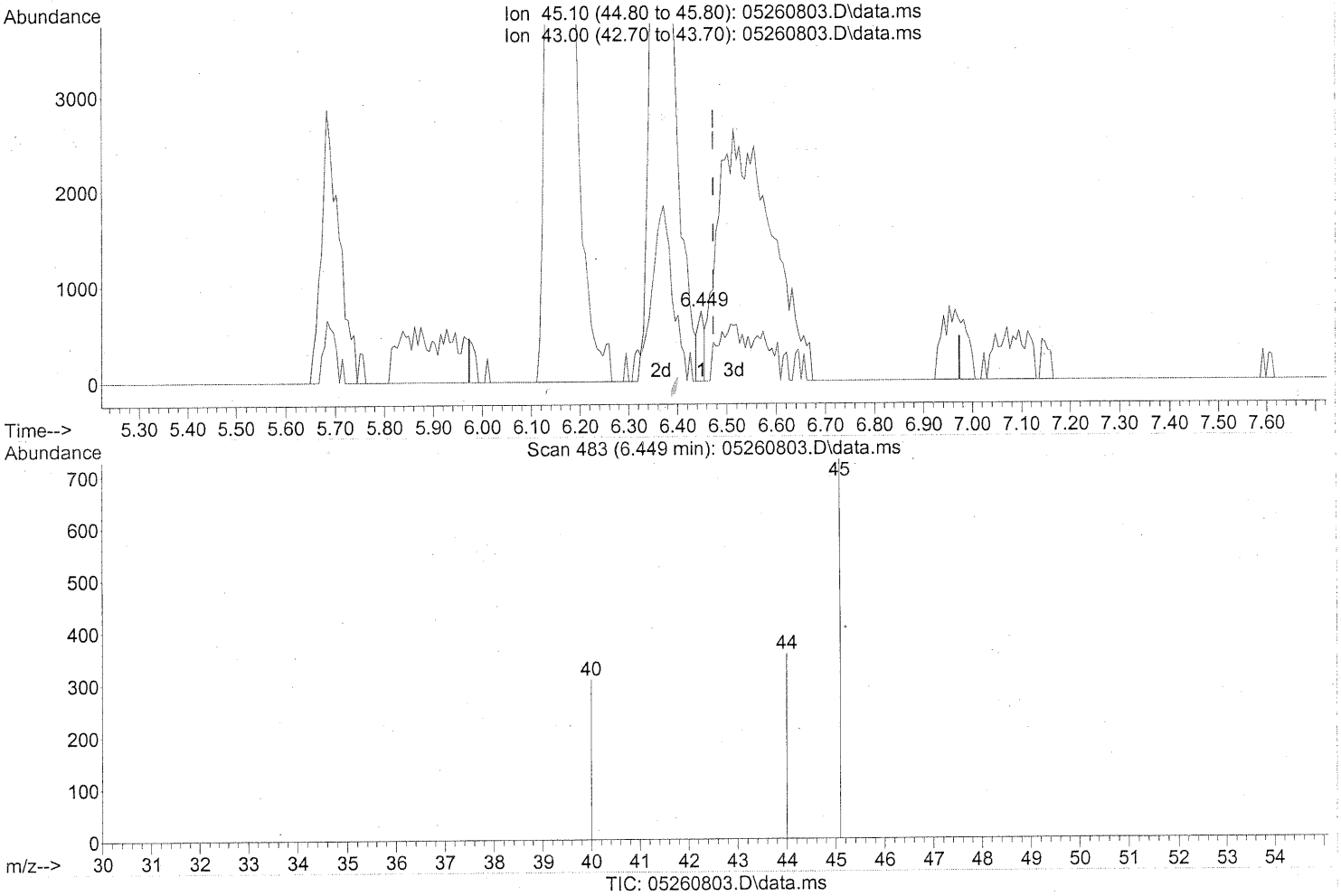
int. whole peaks

DA 5/29/08

Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.449min (-0.024) 0.01ng

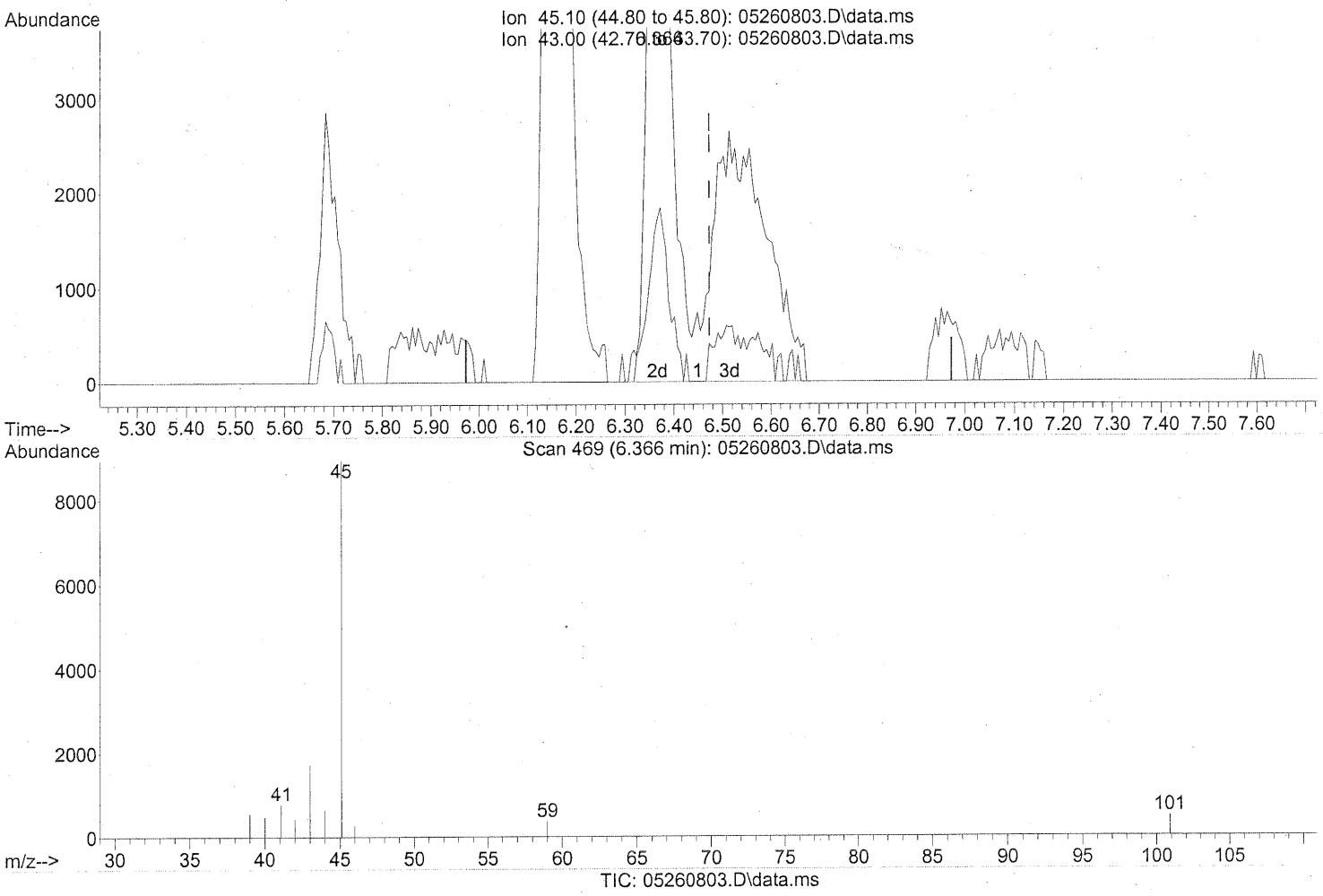
response 664

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.366min (-0.107) 0.53ng m

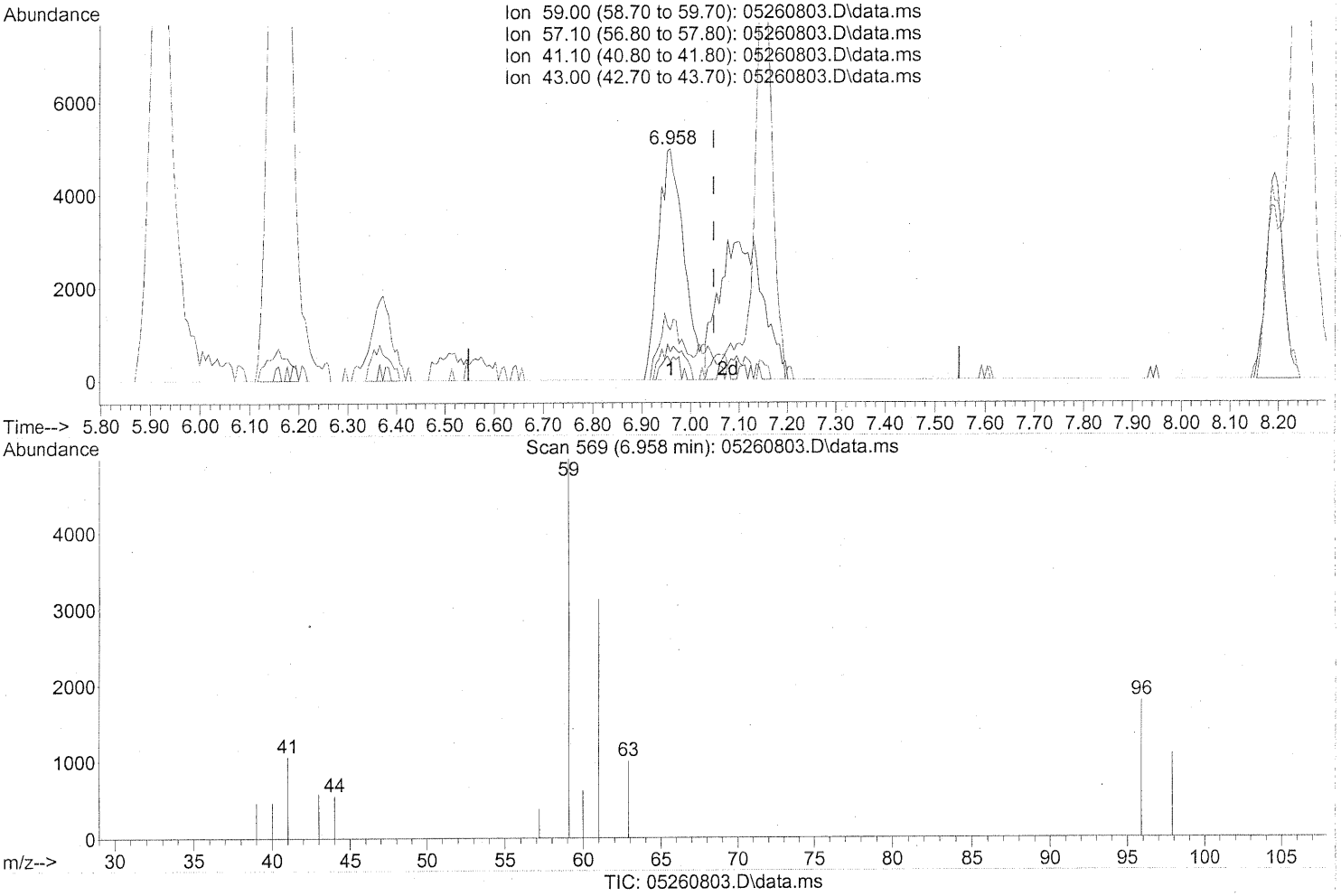
response 45256

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	0.00
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
JDM 5/29/08
EM 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 5:14 pm
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.958min (-0.089) 0.24ng

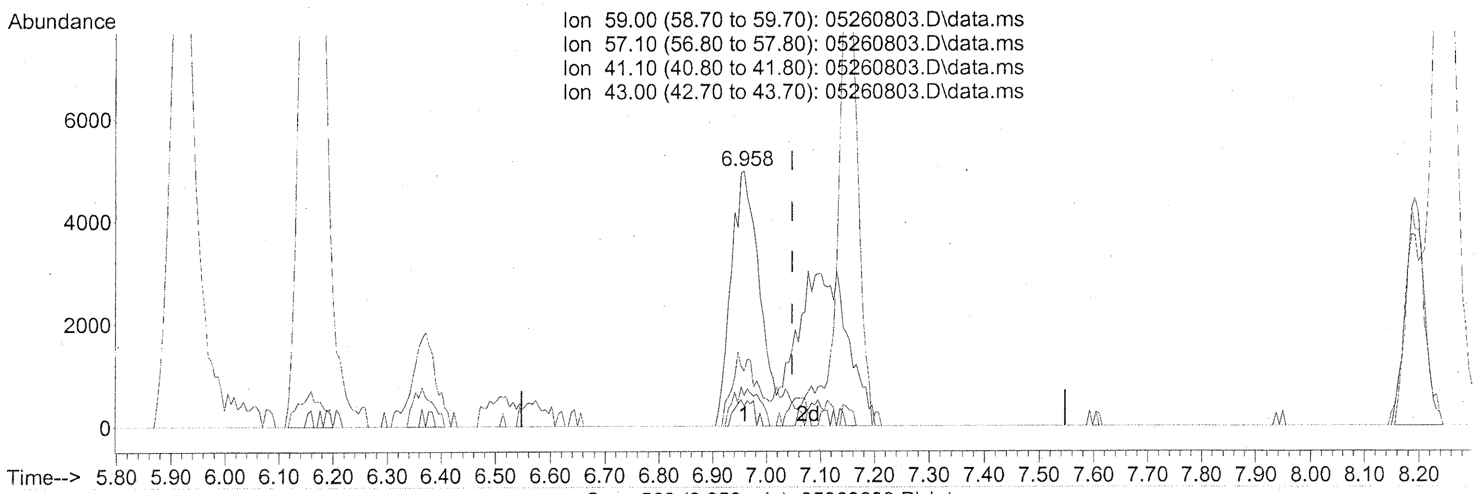
response 18590

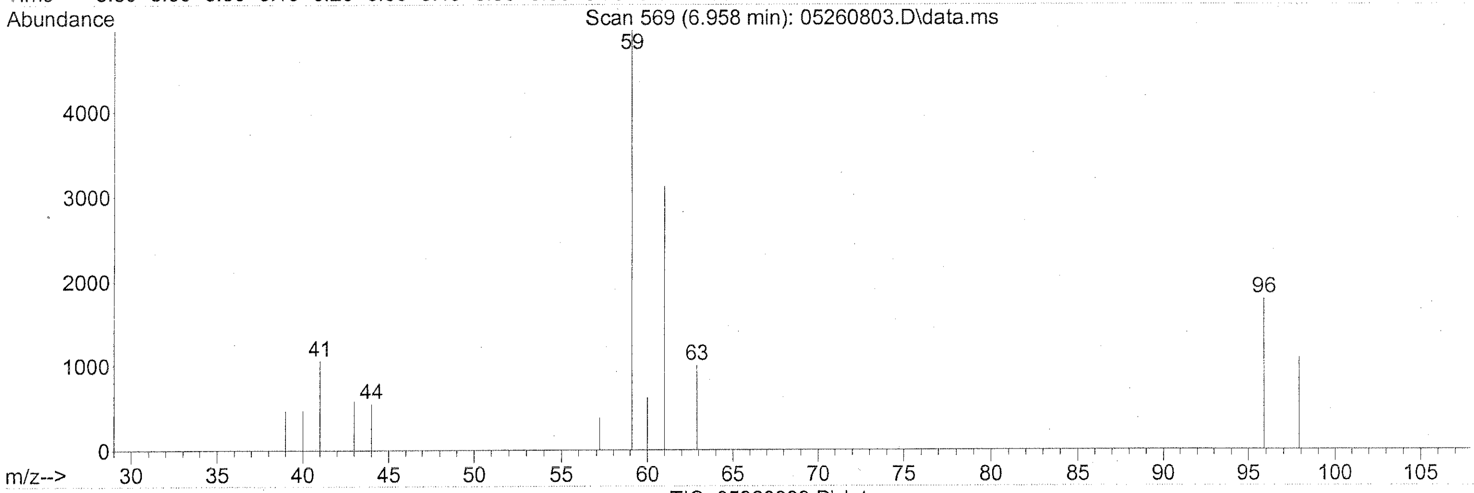
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	6.88
41.10	21.90	24.65
43.00	17.20	13.47

split peaks

```
Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On    : 26 May 2008   5:14 pm
Operator  : WA
Sample    : 0.5ng TO-15 ICAL STD
Misc      : S20-05120801/S20-05210808
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 27 08:16:14 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration
```





TIC: 05260803.D\data.ms

(18) tert-Butanol (T)

6.958min (-0.089) 0.48ng m

response 37559

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	3.41
41.10	21.90	12.20
43.00	17.20	6.67

int. whole peaks

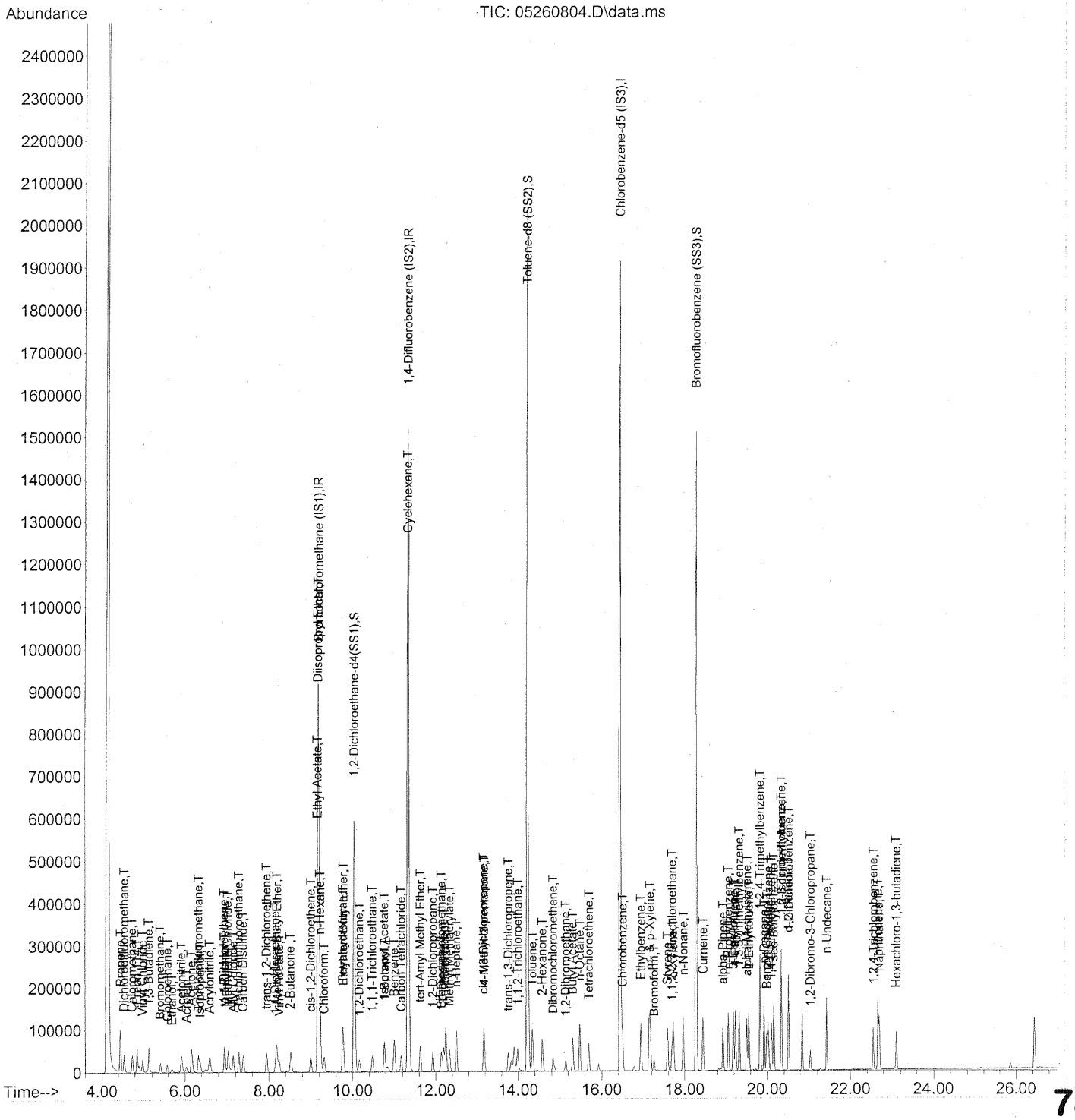
WA 5/29/08

Em 5/30/08

779

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	400525	25.000	ng		-0.06
37) 1,4-Difluorobenzene (IS2)	11.34	114	1674056	25.000	ng		-0.04
56) Chlorobenzene-d5 (IS3)	16.45	82	647047	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.04	65	573073	20.290	ng		-0.05
Spiked Amount 25.000			Recovery = 81.16%				
57) Toluene-d8 (SS2)	14.22	98	1679917	26.368	ng		-0.02
Spiked Amount 25.000			Recovery = 105.48%				
73) Bromofluorobenzene (SS3)	18.28	174	543013	32.749	ng		-0.01
Spiked Amount 25.000			Recovery = 131.00%				
Target Compounds							Qvalue
2) Propene	4.45	42	33570	0.838	ng		93
3) Dichlorodifluoromethane	4.54	85	40962	0.865	ng		98
4) Chloromethane	4.74	50	56185	0.960	ng		98
5) Freon 114	4.85	135	24123	1.056	ng		94
6) Vinyl Chloride	4.98	62	32982	0.816	ng		93
7) 1,3-Butadiene	5.12	54	30538	0.809	ng		89
8) Bromomethane	5.41	94	18215	1.093	ng		99
9) Chloroethane	5.58	64	17881	0.968	ng		94
10) Ethanol	5.69	45	22061m	0.801	ng		
11) Acetonitrile	5.92	41	65956	0.922	ng		96
12) Acrolein	6.04	56	15251	0.778	ng		99
13) Acetone	6.16	58	32672	1.235	ng	#	70
14) Trichlorofluoromethane	6.32	101	38614	0.986	ng		100
15) Isopropanol	6.37	45	82028m	0.956	ng		
16) Acrylonitrile	6.60	53	39953	0.849	ng		98
17) 1,1-Dichloroethene	6.93	96	19791	1.032	ng		95
18) tert-Butanol	6.95	59	67512m	0.865	ng		
19) Methylene Chloride	7.02	84	20193	0.966	ng	#	43
20) Allyl Chloride	7.15	41	39791	0.908	ng		78
21) Trichlorotrifluoroethane	7.28	151	21202	1.288	ng	#	83
22) Carbon Disulfide	7.39	76	69199	0.877	ng		100
23) trans-1,2-Dichloroethene	7.94	61	37088	0.905	ng		94
24) 1,1-Dichloroethane	8.16	63	41421	0.886	ng		92
25) Methyl tert-Butyl Ether	8.20	73	58827	0.936	ng		79
26) Vinyl Acetate	8.25	86	3910	0.728	ng	#	19
27) 2-Butanone	8.52	72	13238	0.971	ng	#	6
28) cis-1,2-Dichloroethene	9.01	61	35017	0.926	ng		97
29) Diisopropyl Ether	9.18	87	15888	0.916	ng	#	25
30) Ethyl Acetate	9.17	61	10329	1.024	ng		86
31) n-Hexane	9.23	57	54152	0.950	ng		93

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.32	83	32822	1.099 ng		96
34) Tetrahydrofuran	9.77	72	12922	0.946 ng	#	44
35) Ethyl tert-Butyl Ether	9.78	87	23314	0.947 ng	#	73
36) 1,2-Dichloroethane	10.16	62	32391	0.907 ng		93
38) 1,1,1-Trichloroethane	10.47	97	34222	1.063 ng		96
39) Isopropyl Acetate	10.77	61	15493	0.905 ng	#	66
40) 1-Butanol	10.77	56	25783m	0.813 ng		
41) Benzene	11.01	78	80961	0.987 ng		99
42) Carbon Tetrachloride	11.17	117	33137	1.364 ng		97
43) Cyclohexane	11.33	84	32994	1.015 ng	#	1
44) tert-Amyl Methyl Ether	11.63	73	52381	0.906 ng		77
45) 1,2-Dichloropropane	11.93	63	24757	0.972 ng		98
46) Bromodichloromethane	12.14	83	26064	1.069 ng		93
47) Trichloroethene	12.19	130	27200	1.204 ng		100
48) 1,4-Dioxane	12.14	88	16333	1.059 ng	#	69
49) Isooctane	12.24	57	126387	0.927 ng		93
50) Methyl Methacrylate	12.34	100	8581	1.059 ng	#	73
51) n-Heptane	12.51	71	20216	0.968 ng	#	49
52) cis-1,3-Dichloropropene	13.16	75	29028	0.887 ng		100
53) 4-Methyl-2-pentanone	13.18	58	26898	0.901 ng		85
54) trans-1,3-Dichloropropene	13.77	75	28839	0.998 ng		95
55) 1,1,2-Trichloroethane	13.99	97	19925	1.000 ng		93
58) Toluene	14.35	91	88851	1.138 ng		100
59) 2-Hexanone	14.58	43	75563	0.915 ng		98
60) Dibromochloromethane	14.84	129	24973	1.226 ng		96
61) 1,2-Dibromoethane	15.14	107	24497	1.216 ng		100
62) Butyl Acetate	15.31	43	80934	0.961 ng		93
63) n-Octane	15.47	57	25736	1.030 ng		96
64) Tetrachloroethene	15.69	166	25493	1.321 ng		95
65) Chlorobenzene	16.50	112	63839	1.236 ng		99
66) Ethylbenzene	16.94	91	99869	1.122 ng		93
67) m- & p-Xylene	17.16	91	157509	2.700 ng		93
68) Bromoform	17.26	173	17692	1.606 ng		98
69) Styrene	17.59	104	63008	1.165 ng		95
70) o-Xylene	17.73	91	78792	1.267 ng		93
71) n-Nonane	17.97	43	67696	0.985 ng		91
72) 1,1,2,2-Tetrachloroethane	17.70	83	33312	1.215 ng		94
74) Cumene	18.45	105	102814	1.183 ng		96
75) alpha-Pinene	18.93	93	47668	1.123 ng		93
76) n-Propylbenzene	19.06	91	116259	1.067 ng		91
77) 3-Ethyltoluene	19.19	105	105590	1.122 ng		95
78) 4-Ethyltoluene	19.24	105	104962	1.225 ng		93
79) 1,3,5-Trimethylbenzene	19.33	105	88320	1.170 ng		88

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

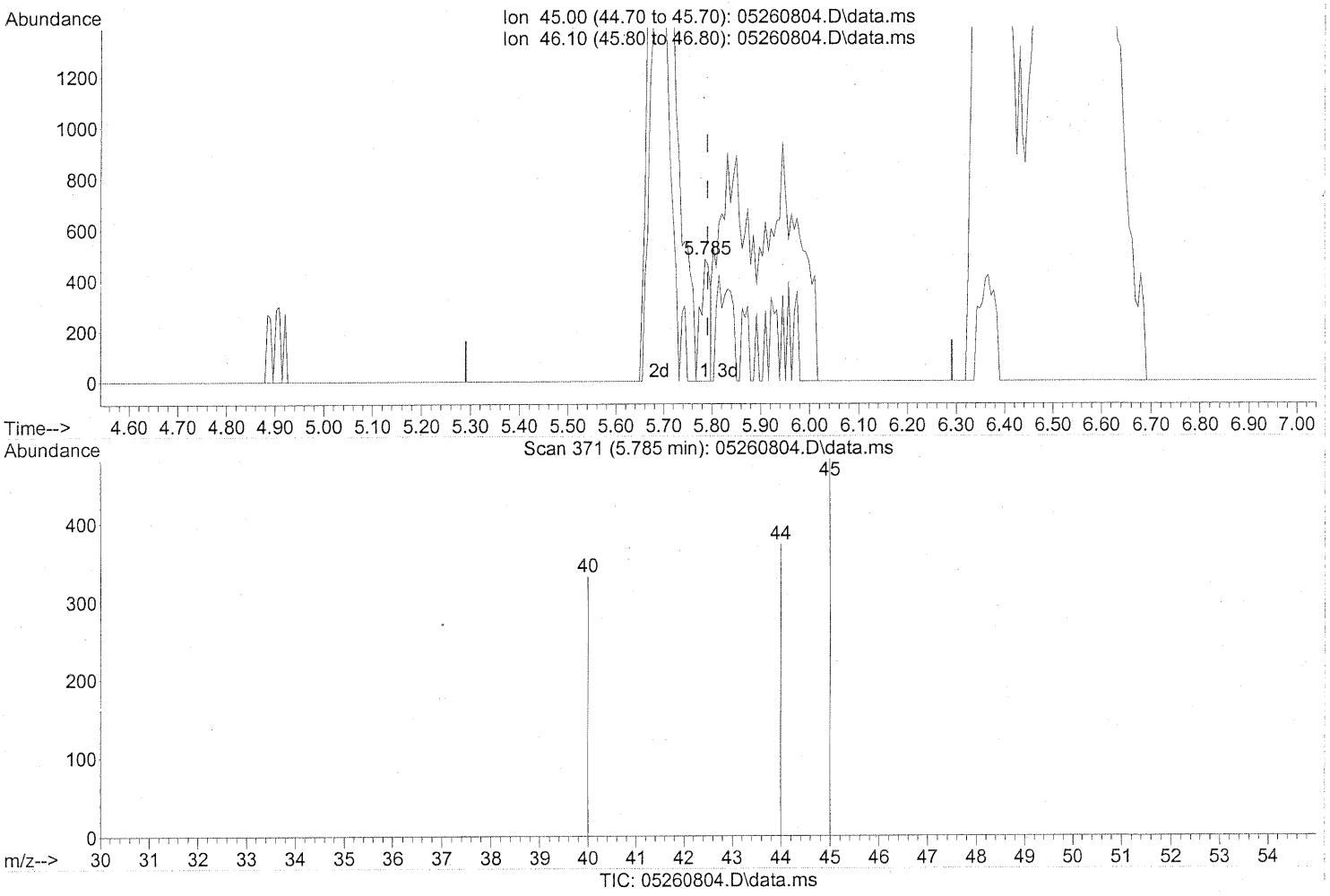
Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
80) alpha-Methylstyrene	19.52	118	47129	1.151	ng	98
81) 2-Ethyltoluene	19.56	105	99840	1.069	ng	92
82) 1,2,4-Trimethylbenzene	19.83	105	93176	1.195	ng	91
83) n-Decane	19.92	57	62502	1.011	ng	80
84) Benzyl Chloride	19.99	91	66336	1.021	ng	90
85) 1,3-Dichlorobenzene	20.02	146	56857	1.256	ng	97
86) 1,4-Dichlorobenzene	20.10	146	57131	1.322	ng	99
87) sec-Butylbenzene	20.16	105	117023	1.152	ng	95
88) p-Isopropyltoluene	20.34	119	112983	1.310	ng	94
89) 1,2,3-Trimethylbenzene	20.34	105	88366	1.164	ng	86
90) 1,2-Dichlorobenzene	20.52	146	52899	1.260	ng	99
91) d-Limonene	20.51	68	27139	0.965	ng	85
92) 1,2-Dibromo-3-Chloropr...	21.04	157	15605	1.180	ng	86
93) n-Undecane	21.44	57	65532	1.008	ng	79
94) 1,2,4-Trichlorobenzene	22.55	184	9621	1.318	ng	89
95) Naphthalene	22.69	128	114826	1.041	ng	100
96) n-Dodecane	22.66	57	62441	0.984	ng	77
97) Hexachloro-1,3-butadiene	23.11	225	16567	1.518	ng	100

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:19:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.785min (-0.006) 0.02ng

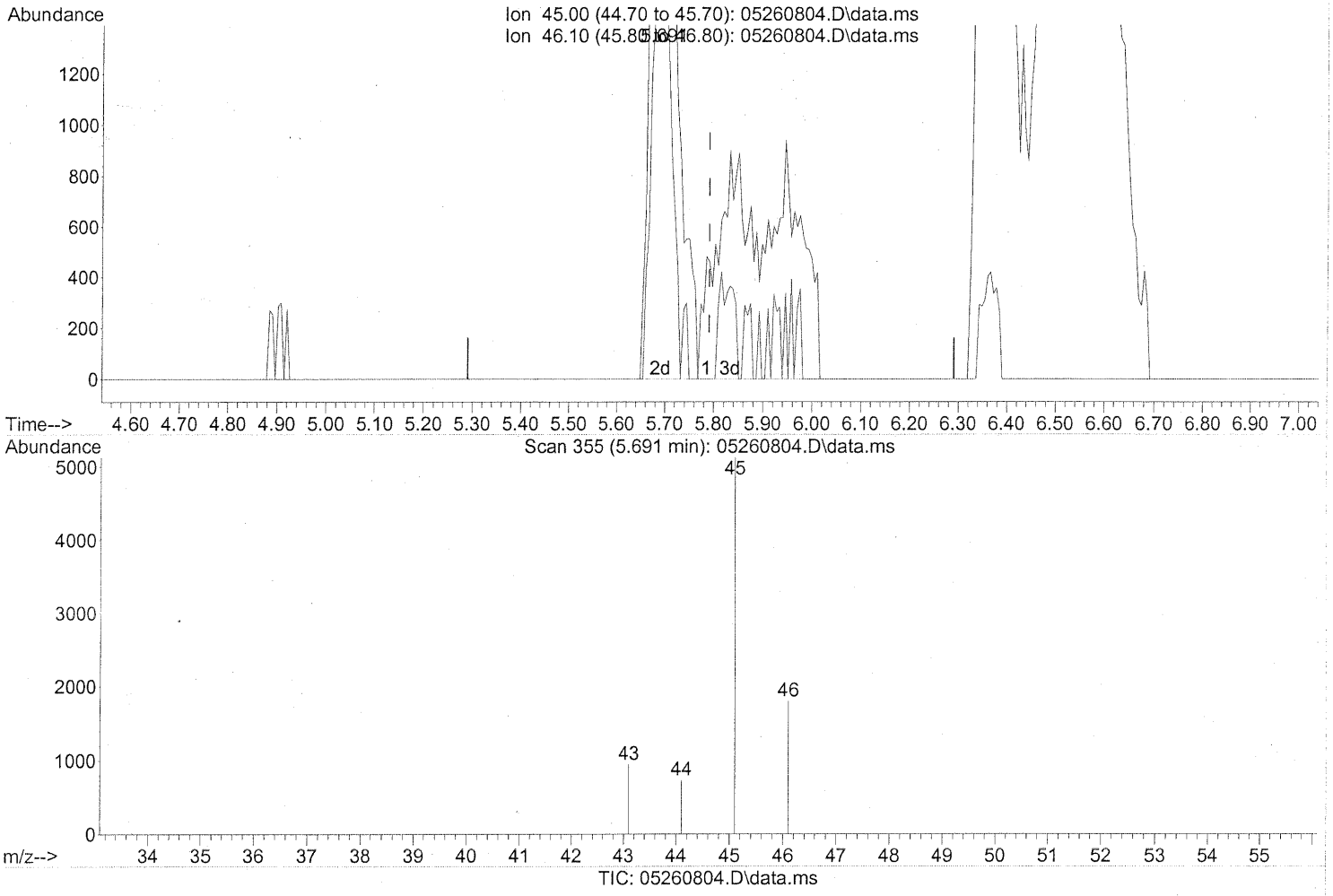
response 661

split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:19:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.691min (-0.101) 0.80ng m

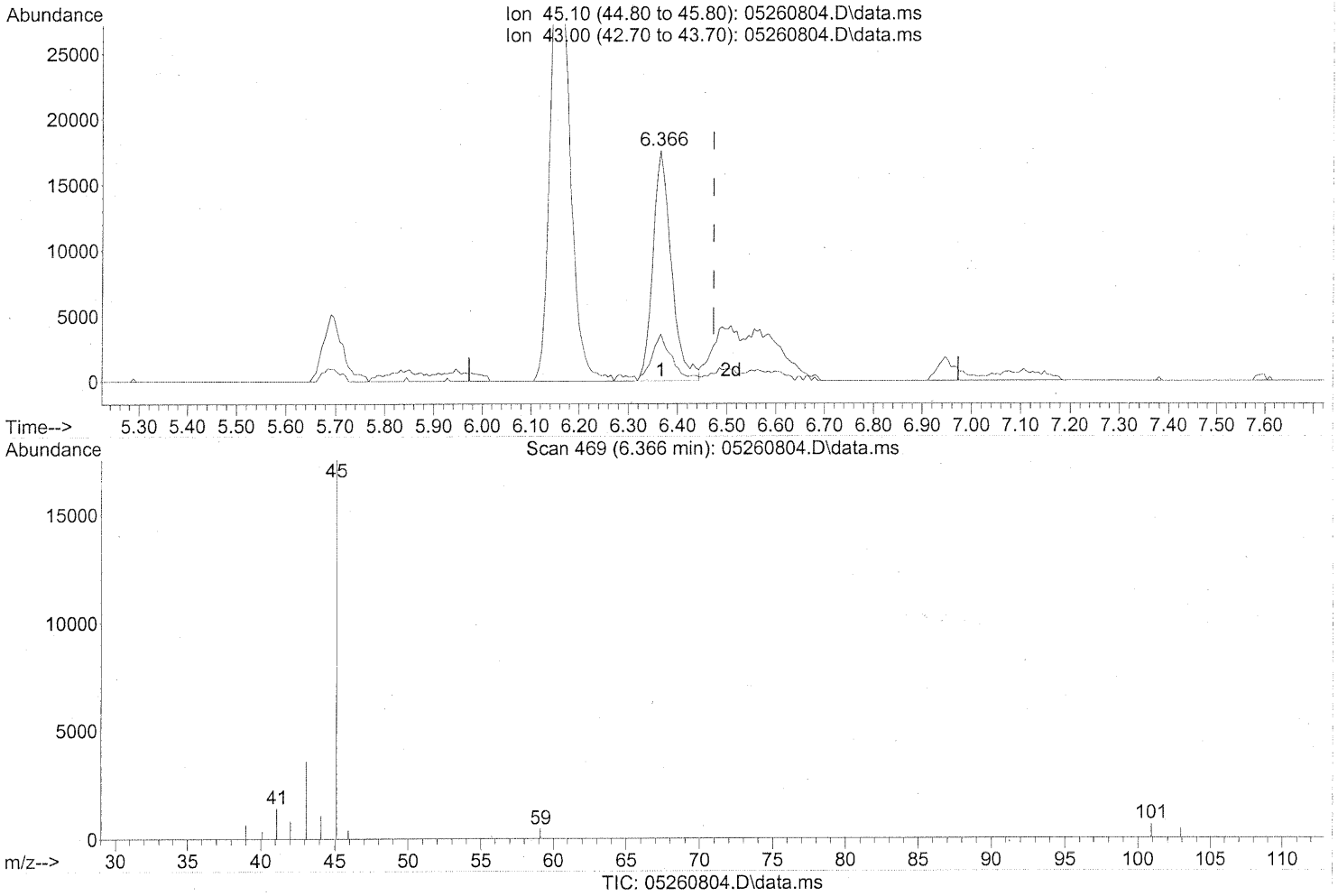
response 22061

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
JDA 5/29/08
EM 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:19:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.366min (-0.107) 0.54ng

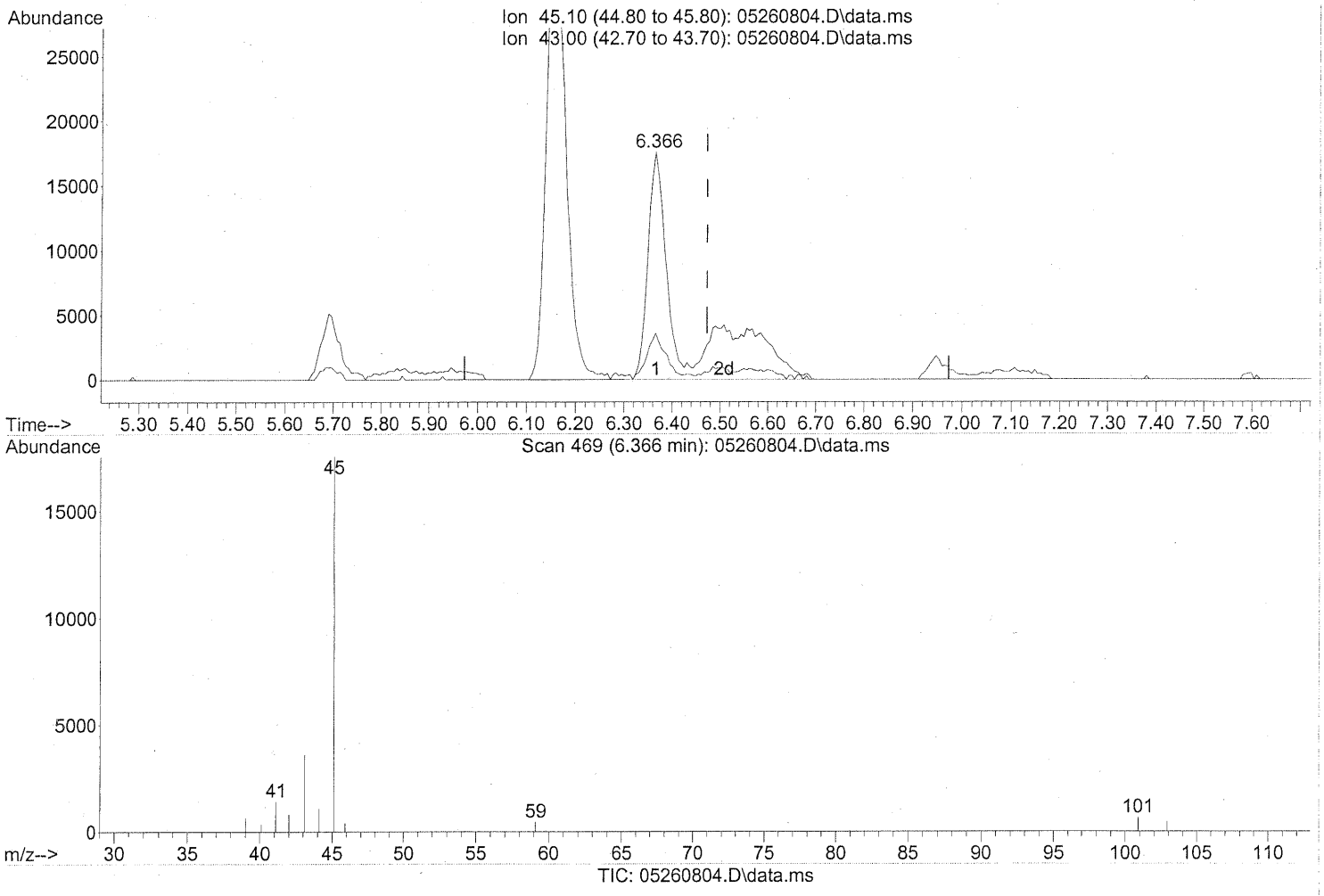
response 45987

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	22.11
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.366min (-0.107) 0.96ng m

response 82028

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	12.39
0.00	0.00	0.00
0.00	0.00	0.00

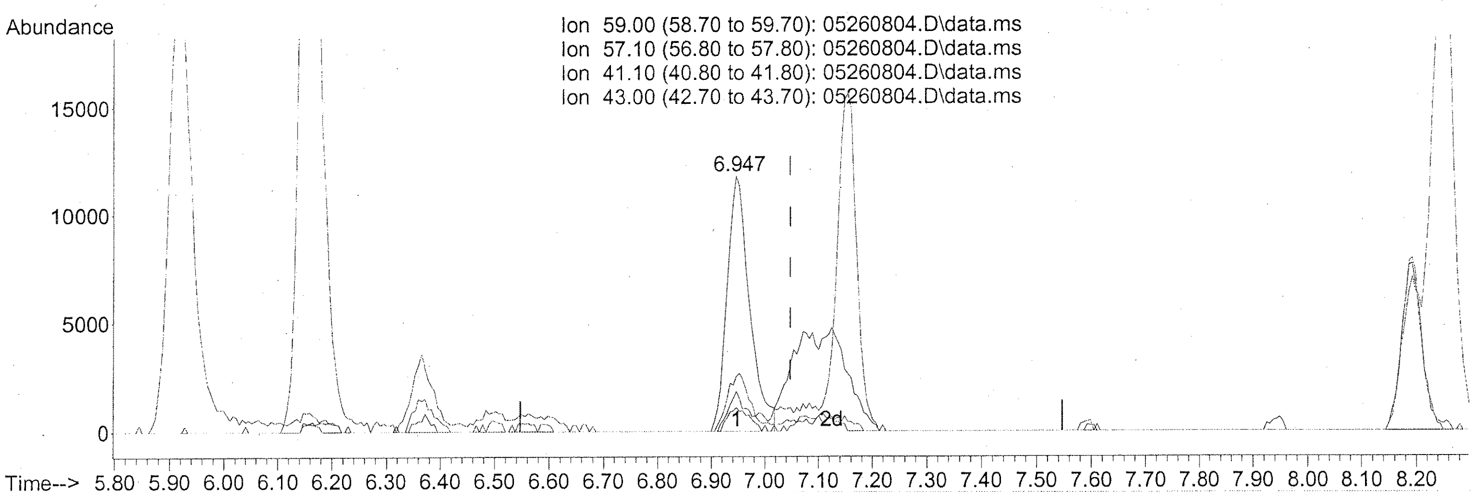
int. whole pecks (reprint)

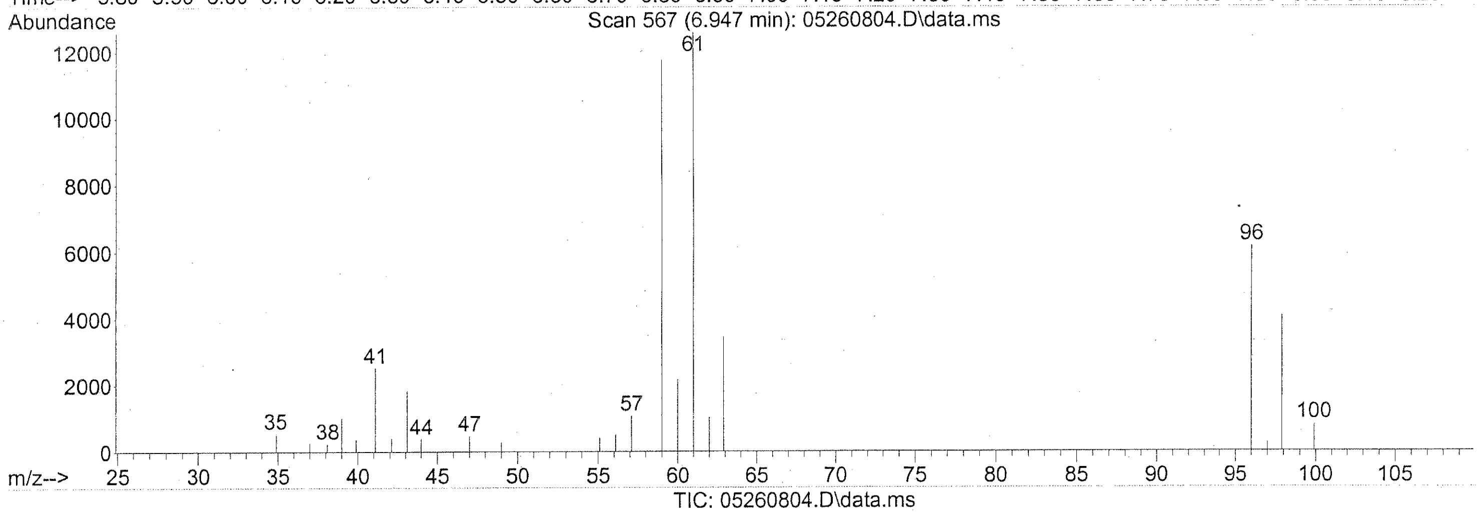
5/30/08

5/30/08

```
Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On    : 26 May 2008   5:51 pm
Operator  : WA
Sample    : 1.0ng TO-15 ICAL STD
Misc      : S20-05120801/S20-05210808
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 27 08:19:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration
```





(18) tert-Butanol (T)

6.947min (-0.101) 0.44ng

response 34580

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	8.89
41.10	21.90	23.90
43.00	17.20	15.49

~~int. whole~~ split peaks

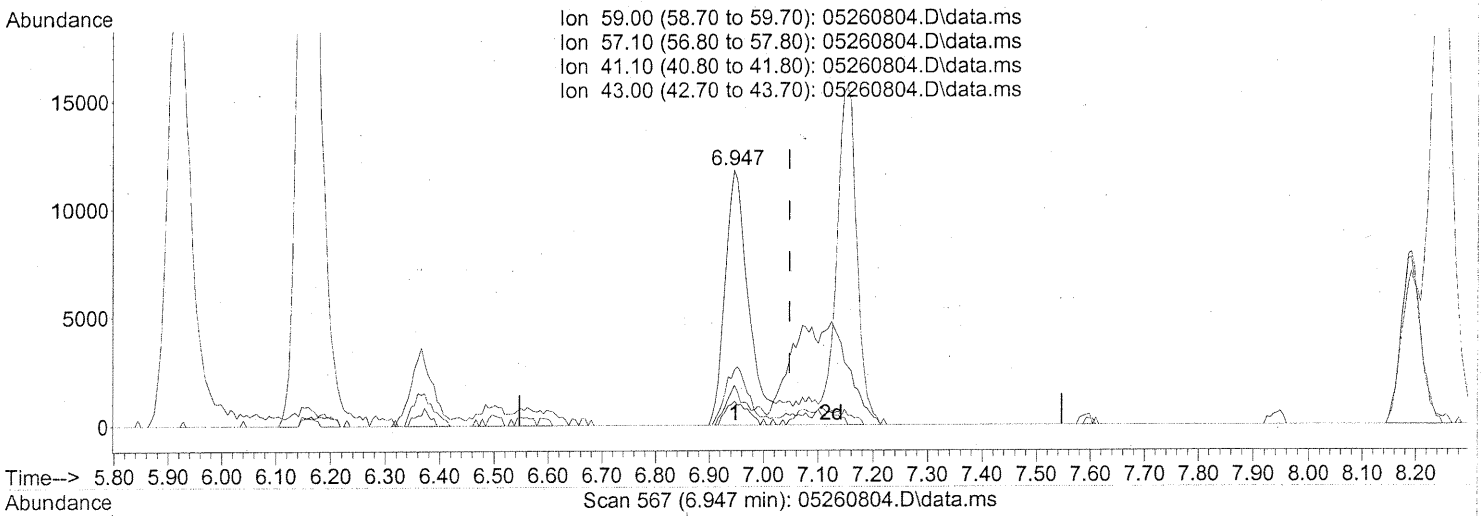
WA 5/29/08

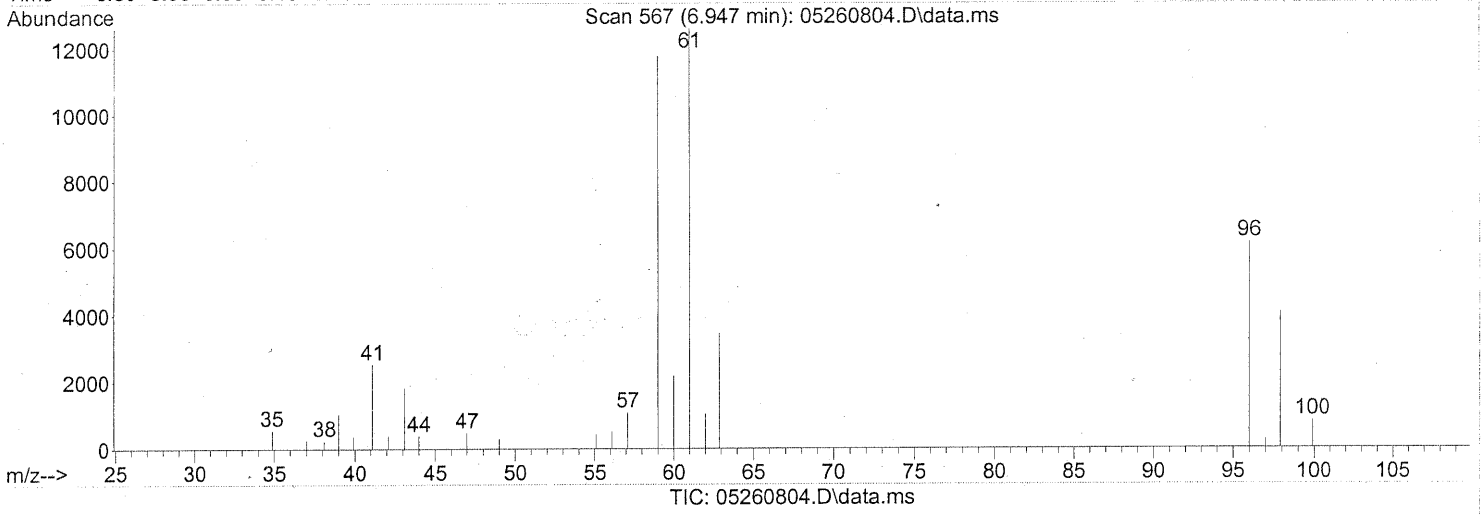
EM 5/30/08

788

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260804.D\data.ms

(18) tert-Butanol (T)

6.947min (-0.101) 0.87ng m

response 67512

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	4.55
41.10	21.90	12.24
43.00	17.20	7.93

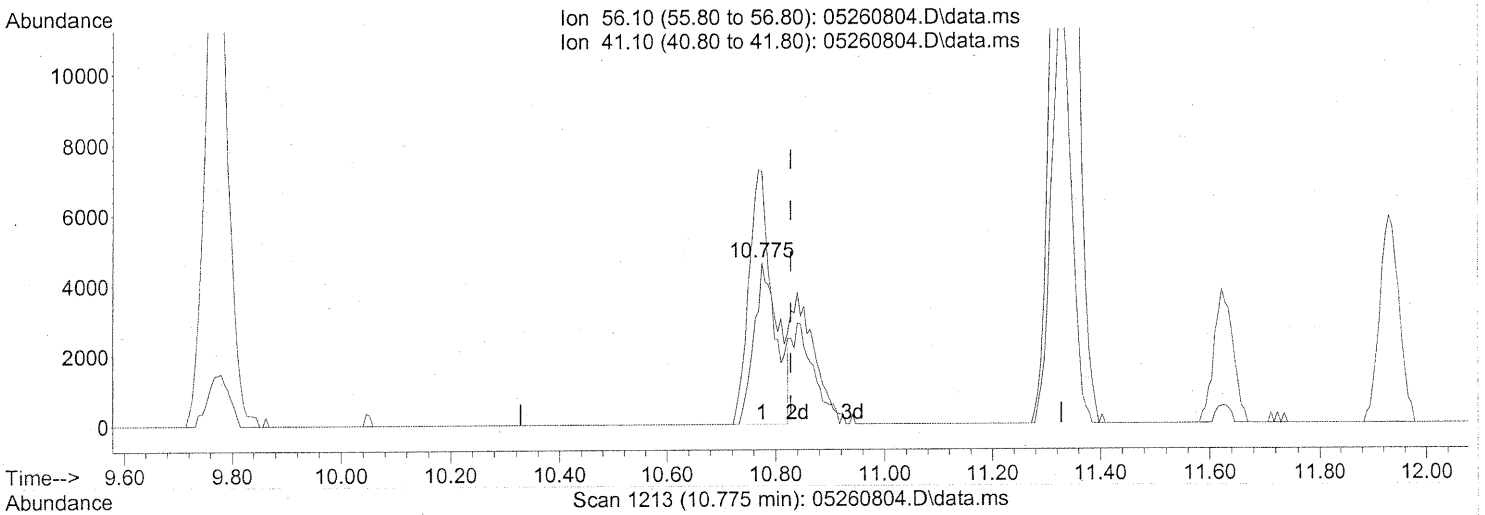
int. whole peaks

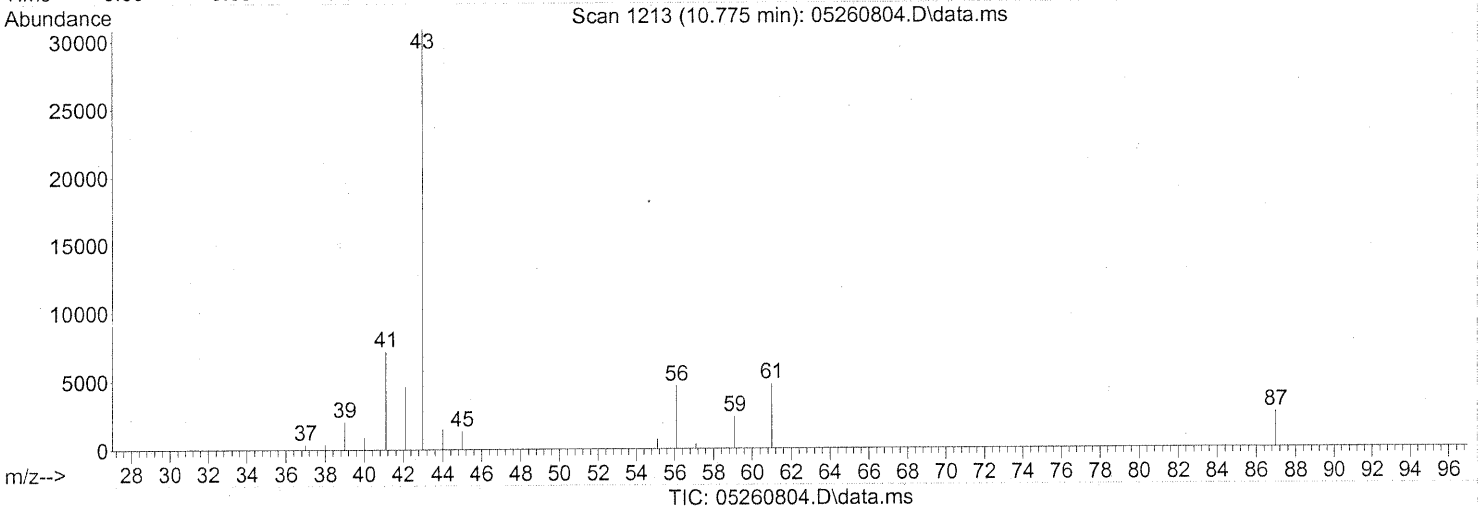
DM 5/29/08

Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:19:52 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260804.D\data.ms

(40) 1-Butanol (T)

10.775min (-0.053) 0.46ng

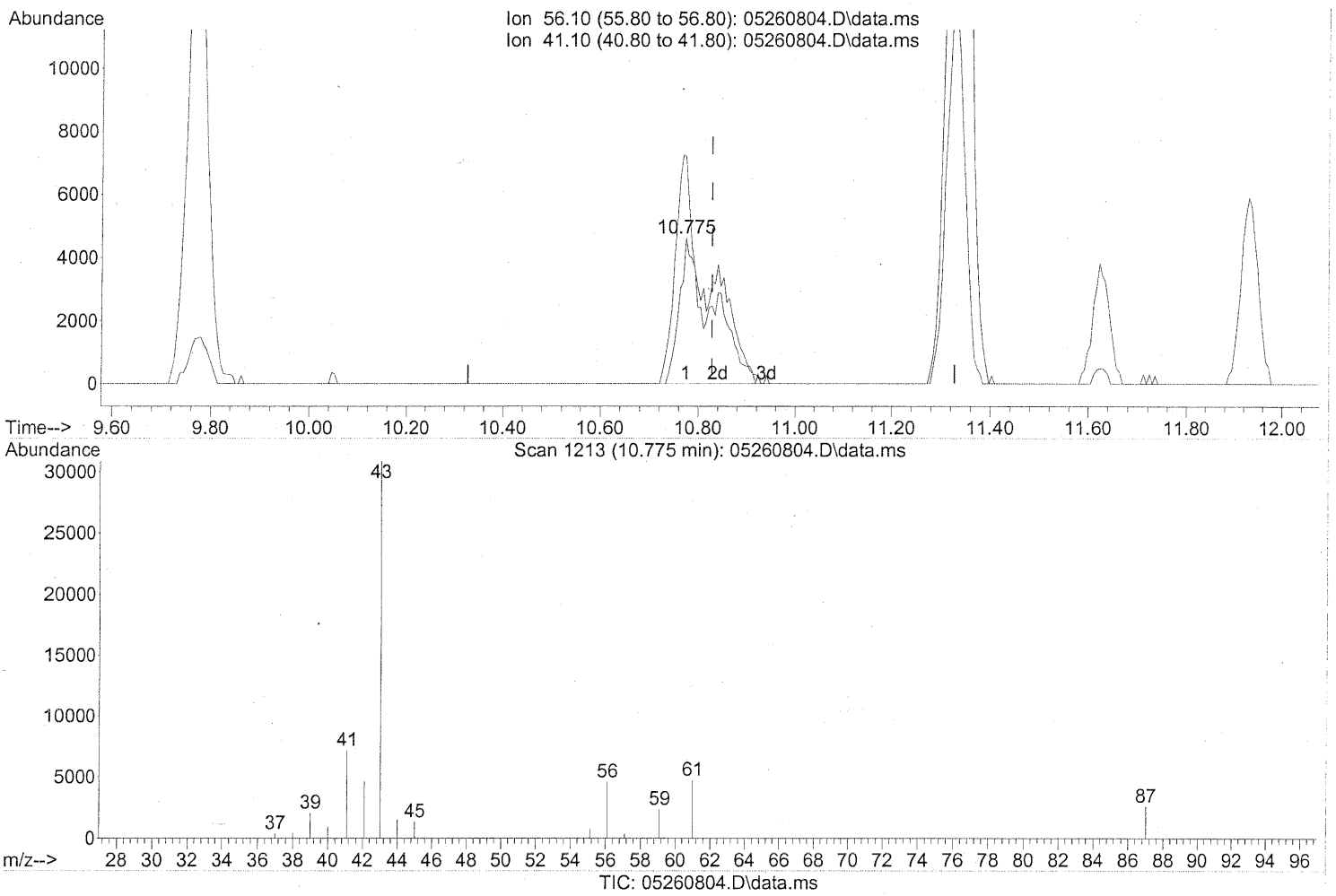
response 14478

Ion	Exp%	Act%
56.10	100	100
41.10	111.90	141.64#
0.00	0.00	0.00
0.00	0.00	0.00

~~int. whole~~ split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 5:51 pm
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:21:24 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(40) 1-Butanol (T)

10.775min (-0.053) 0.81ng m

response 25783

Ion	Exp%	Act%
56.10	100	100
41.10	111.90	79.53#
0.00	0.00	0.00
0.00	0.00	0.00

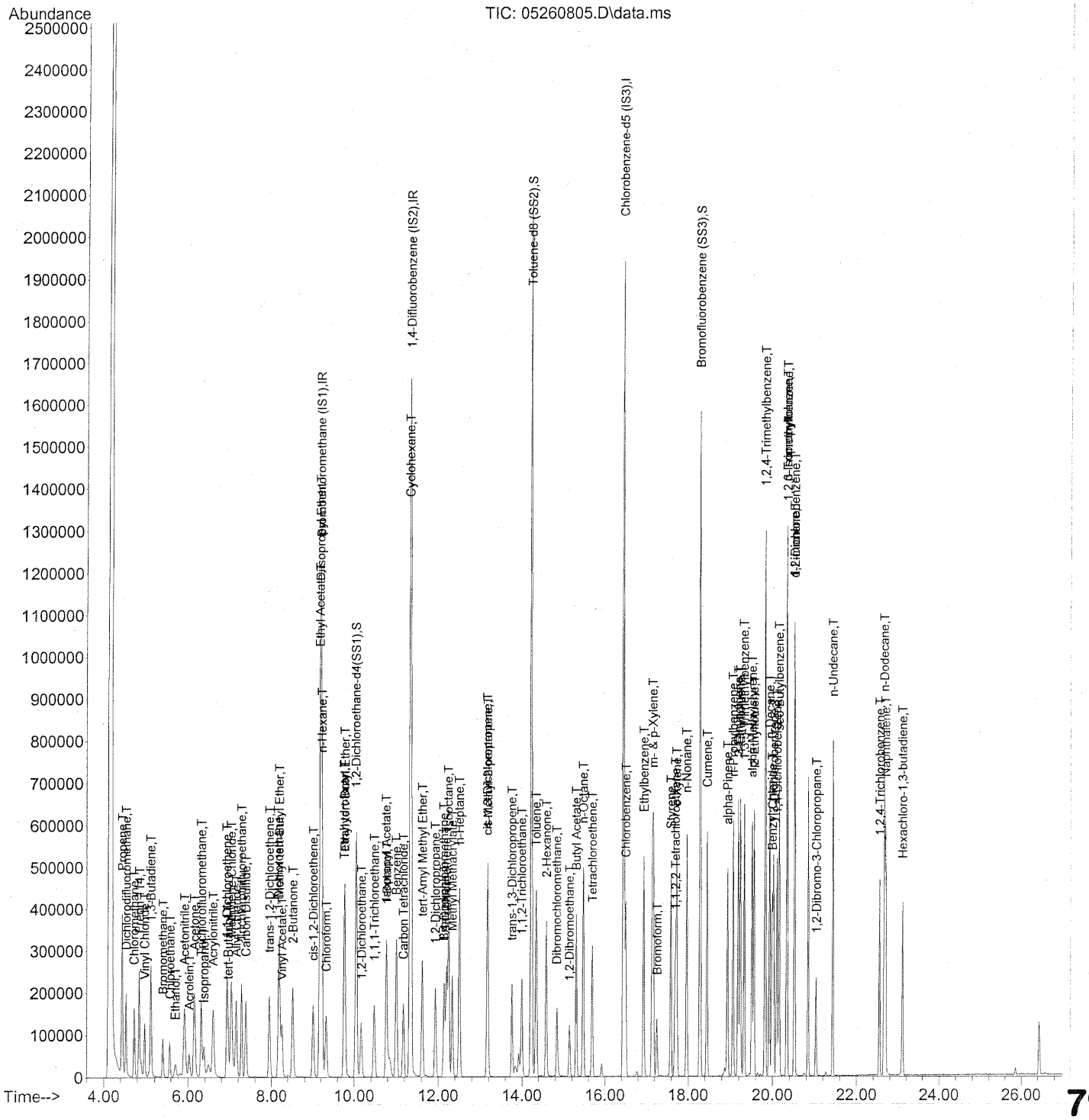
int. whole peaks

JDA 5/29/08

Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	398220	25.000	ng		-0.05
37) 1,4-Difluorobenzene (IS2)	11.35	114	1672349	25.000	ng		-0.03
56) Chlorobenzene-d5 (IS3)	16.45	82	656314	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	562574	20.033	ng		-0.05
Spiked Amount 25.000			Recovery = 80.12%				
57) Toluene-d8 (SS2)	14.23	98	1682540	26.037	ng		-0.02
Spiked Amount 25.000			Recovery = 104.16%				
73) Bromofluorobenzene (SS3)	18.28	174	564532	33.566	ng		-0.01
Spiked Amount 25.000			Recovery = 134.28%				
Target Compounds							Qvalue
2) Propene	4.43	42	165872	4.166	ng		91
3) Dichlorodifluoromethane	4.53	85	191797	4.074	ng		99
4) Chloromethane	4.72	50	220643	3.790	ng		99
5) Freon 114	4.85	135	112151	4.940	ng		96
6) Vinyl Chloride	4.97	62	151399	3.767	ng		96
7) 1,3-Butadiene	5.12	54	140094	3.733	ng		87
8) Bromomethane	5.41	94	70976	4.286	ng		97
9) Chloroethane	5.58	64	78983	4.299	ng		95
10) Ethanol	5.70	45	101632m	3.712	ng		
11) Acetonitrile	5.92	41	297425	4.184	ng		99
12) Acrolein	6.03	56	67672	3.471	ng		99
13) Acetone	6.16	58	130773	4.970	ng	#	76
14) Trichlorofluoromethane	6.32	101	177575	4.560	ng		100
15) Isopropanol	6.38	45	291949m	3.422	ng		
16) Acrylonitrile	6.60	53	192737	4.119	ng		97
17) 1,1-Dichloroethene	6.93	96	90816	4.764	ng		94
18) tert-Butanol	6.96	59	308175m	3.972	ng		
19) Methylene Chloride	7.03	84	89954	4.328	ng	#	42
20) Allyl Chloride	7.15	41	201201	4.619	ng		79
21) Trichlorotrifluoroethane	7.28	151	96040	5.869	ng		87
22) Carbon Disulfide	7.38	76	313785	4.000	ng		100
23) trans-1,2-Dichloroethene	7.95	61	173593	4.259	ng		94
24) 1,1-Dichloroethane	8.17	63	189842	4.085	ng		94
25) Methyl tert-Butyl Ether	8.18	73	273332	4.375	ng		80
26) Vinyl Acetate	8.25	86	17592	3.296	ng	#	22
27) 2-Butanone	8.52	72	62378	4.602	ng	#	18
28) cis-1,2-Dichloroethene	9.01	61	163376	4.348	ng		94
29) Diisopropyl Ether	9.18	87	74992	4.347	ng	#	31
30) Ethyl Acetate	9.17	61	50216	5.008	ng		84
31) n-Hexane	9.23	57	247007	4.359	ng		93

JDH 5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:23:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.33	83	149573	5.037	ng		96
34) Tetrahydrofuran	9.76	72	59479	4.378	ng	#	47
35) Ethyl tert-Butyl Ether	9.78	87	109581	4.478	ng	#	75
36) 1,2-Dichloroethane	10.18	62	147356	4.148	ng		96
38) 1,1,1-Trichloroethane	10.48	97	152020	4.727	ng		93
39) Isopropyl Acetate	10.76	61	71890	4.206	ng	#	64
40) 1-Butanol	10.77	56	124276	3.923	ng		99
41) Benzene	11.01	78	353647	4.314	ng		100
42) Carbon Tetrachloride	11.18	117	153229	6.311	ng		98
43) Cyclohexane	11.33	84	141740	4.365	ng	#	27
44) tert-Amyl Methyl Ether	11.63	73	242879	4.207	ng		76
45) 1,2-Dichloropropane	11.94	63	113744	4.472	ng		98
46) Bromodichloromethane	12.13	83	118652	4.870	ng		93
47) Trichloroethene	12.19	130	123906	5.488	ng		100
48) 1,4-Dioxane	12.14	88	77930	5.060	ng	#	71
49) Isooctane	12.24	57	571496	4.197	ng		93
50) Methyl Methacrylate	12.34	100	41411	5.115	ng	#	73
51) n-Heptane	12.50	71	96386	4.621	ng	#	53
52) cis-1,3-Dichloropropene	13.17	75	138213	4.227	ng		98
53) 4-Methyl-2-pentanone	13.18	58	130008	4.357	ng		86
54) trans-1,3-Dichloropropene	13.76	75	139516	4.831	ng		97
55) 1,1,2-Trichloroethane	13.99	97	92901	4.669	ng		92
58) Toluene	14.34	91	405922	5.127	ng		98
59) 2-Hexanone	14.58	43	359088	4.289	ng		100
60) Dibromochloromethane	14.83	129	122676	5.937	ng		100
61) 1,2-Dibromoethane	15.14	107	111644	5.465	ng		97
62) Butyl Acetate	15.31	43	383471	4.489	ng		93
63) n-Octane	15.47	57	121279	4.786	ng		95
64) Tetrachloroethene	15.69	166	121317	6.200	ng		100
65) Chlorobenzene	16.50	112	293518	5.602	ng		100
66) Ethylbenzene	16.94	91	457743	5.068	ng		92
67) m- & p-Xylene	17.16	91	719735	12.163	ng		91
68) Bromoform	17.26	173	86250	7.718	ng		99
69) Styrene	17.59	104	299387	5.459	ng		94
70) o-Xylene	17.73	91	368054	5.833	ng		93
71) n-Nonane	17.96	43	312495	4.484	ng		93
72) 1,1,2,2-Tetrachloroethane	17.70	83	154117	5.544	ng		93
74) Cumene	18.45	105	472913	5.365	ng		94
75) alpha-Pinene	18.93	93	229060	5.318	ng		93
76) n-Propylbenzene	19.06	91	536928	4.857	ng		92
77) 3-Ethyltoluene	19.19	105	479773	5.025	ng		94
78) 4-Ethyltoluene	19.24	105	489427	5.629	ng		92
79) 1,3,5-Trimethylbenzene	19.33	105	412688	5.391	ng		91

JDF 5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

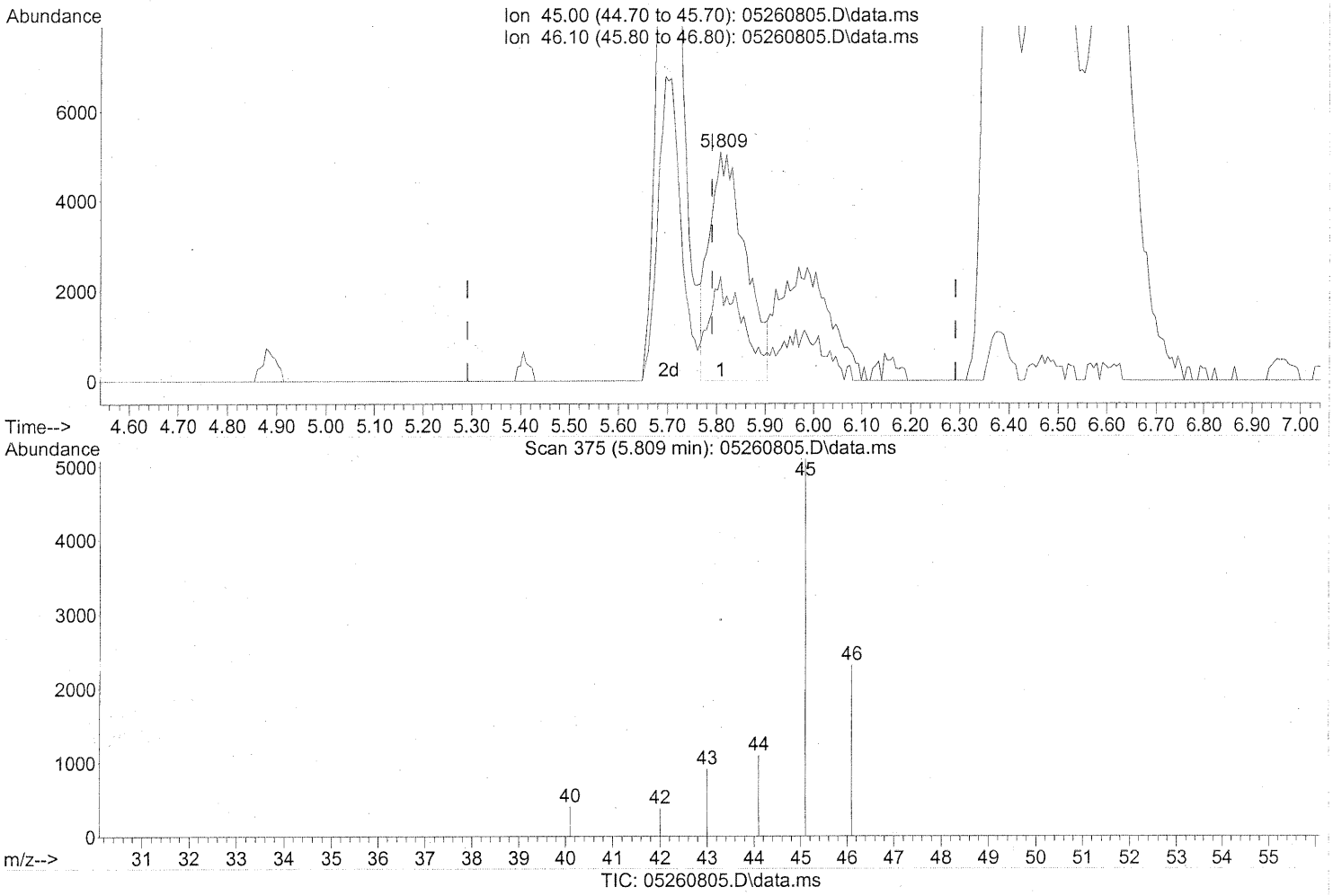
Quant Time: May 27 08:23:29 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	226617	5.457	ng		97
81) 2-Ethyltoluene	19.56	105	466308	4.923	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	423645	5.356	ng		91
83) n-Decane	19.93	57	292870	4.672	ng		81
84) Benzyl Chloride	19.99	91	324101	4.917	ng		89
85) 1,3-Dichlorobenzene	20.02	146	257435	5.608	ng		99
86) 1,4-Dichlorobenzene	20.10	146	259129	5.910	ng		99
87) sec-Butylbenzene	20.15	105	545118	5.290	ng		95
88) p-Isopropyltoluene	20.34	119	525742	6.008	ng		93
89) 1,2,3-Trimethylbenzene	20.34	105	410362	5.328	ng		87
90) 1,2-Dichlorobenzene	20.52	146	242720	5.701	ng		100
91) d-Limonene	20.52	68	133117	4.665	ng		87
92) 1,2-Dibromo-3-Chloropr...	21.04	157	76037	5.668	ng		83
93) n-Undecane	21.43	57	308882	4.685	ng		80
94) 1,2,4-Trichlorobenzene	22.55	184	44542	6.015	ng	#	89
95) Naphthalene	22.69	128	529936	4.735	ng		99
96) n-Dodecane	22.66	57	300809	4.676	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	76210	6.883	ng		98

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.809min (+0.018) 0.95ng

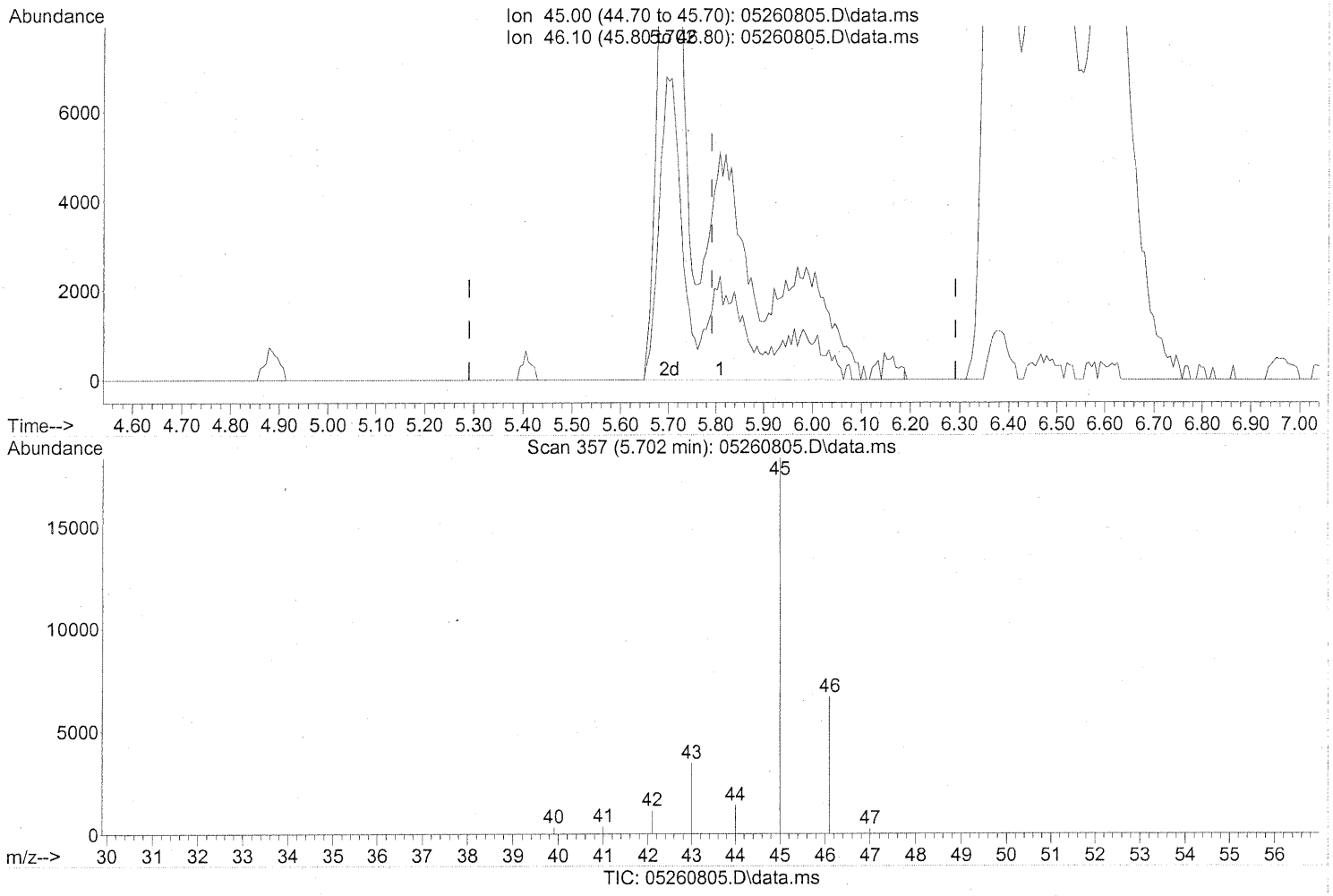
response 25973

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	46.34
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.702min (-0.089) 3.71ng m

response 101632

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	11.84#
0.00	0.00	0.00
0.00	0.00	0.00

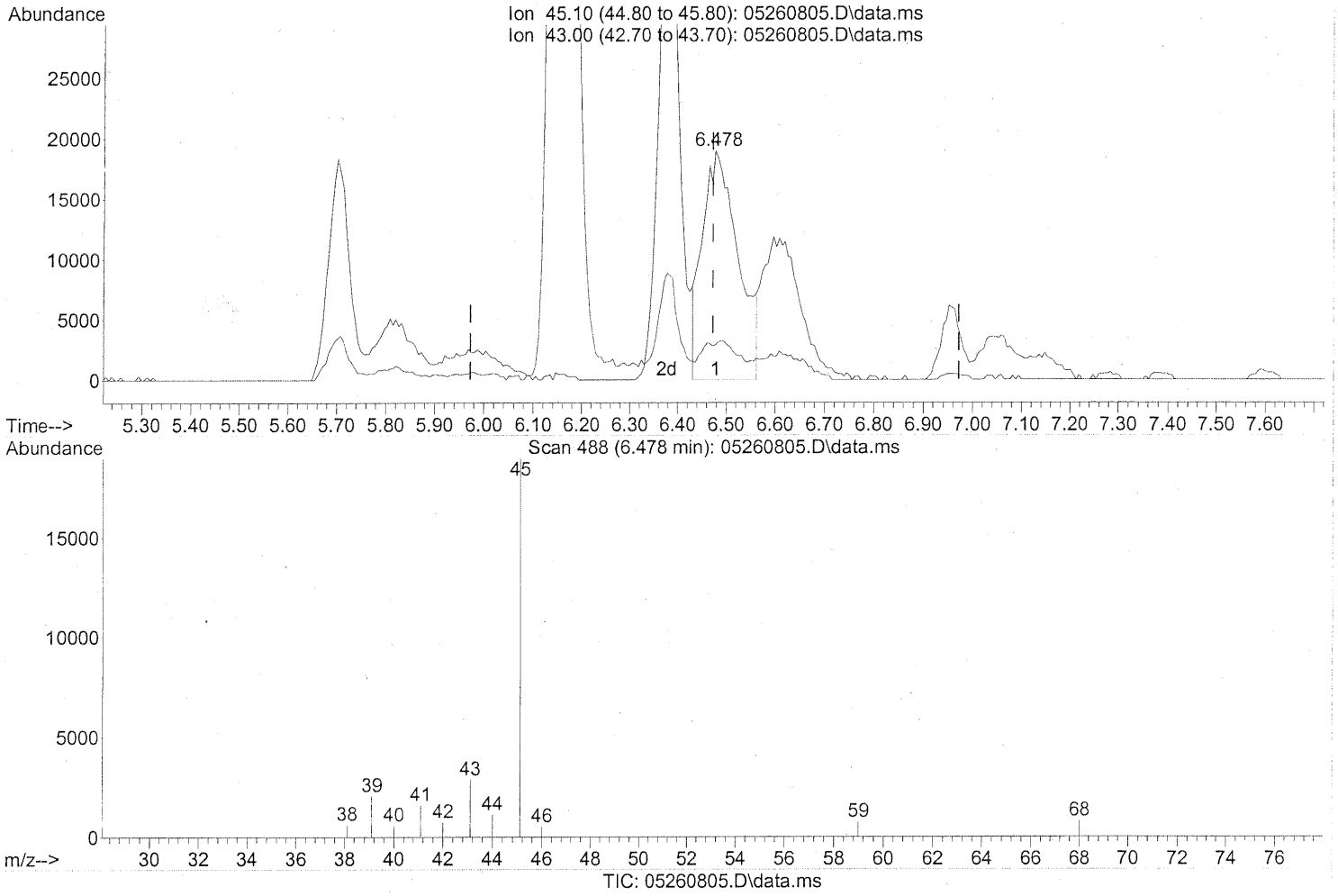
int. whole peaks

DM 5/29/08

Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.478min (+0.005) 1.13ng

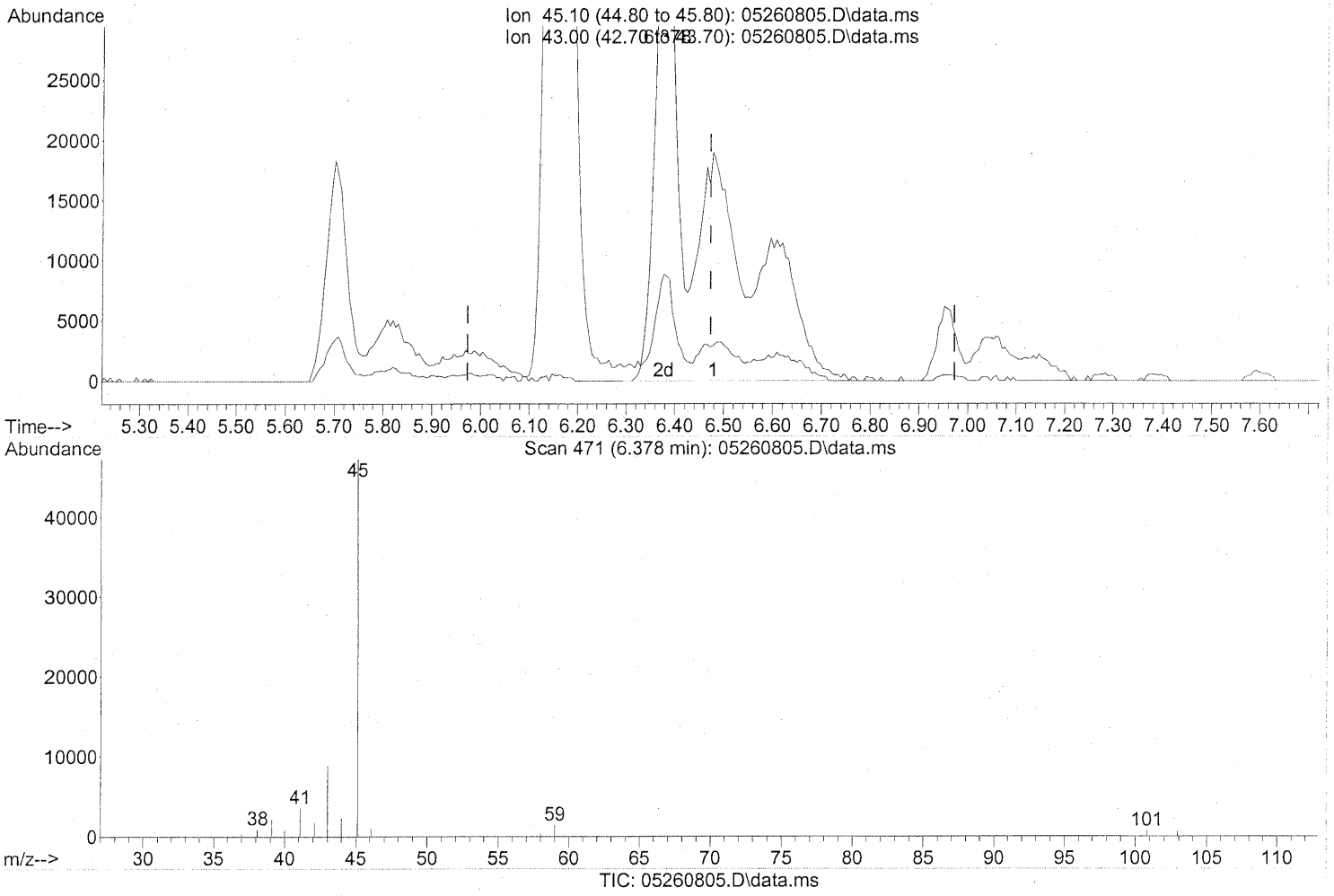
response 95977

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	31.79
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



TIC: 05260805.D\data.ms

(15) Isopropanol (T)

6.378min (-0.095) 3.42ng m

response 291949

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	10.45
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

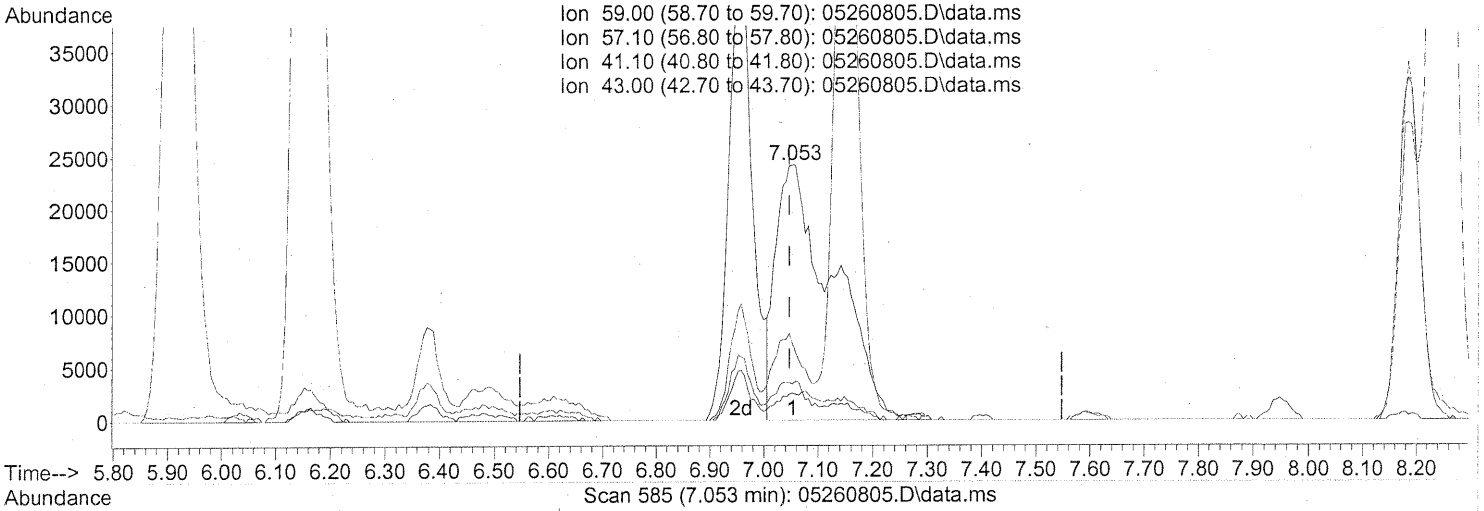
DM 5/29/08

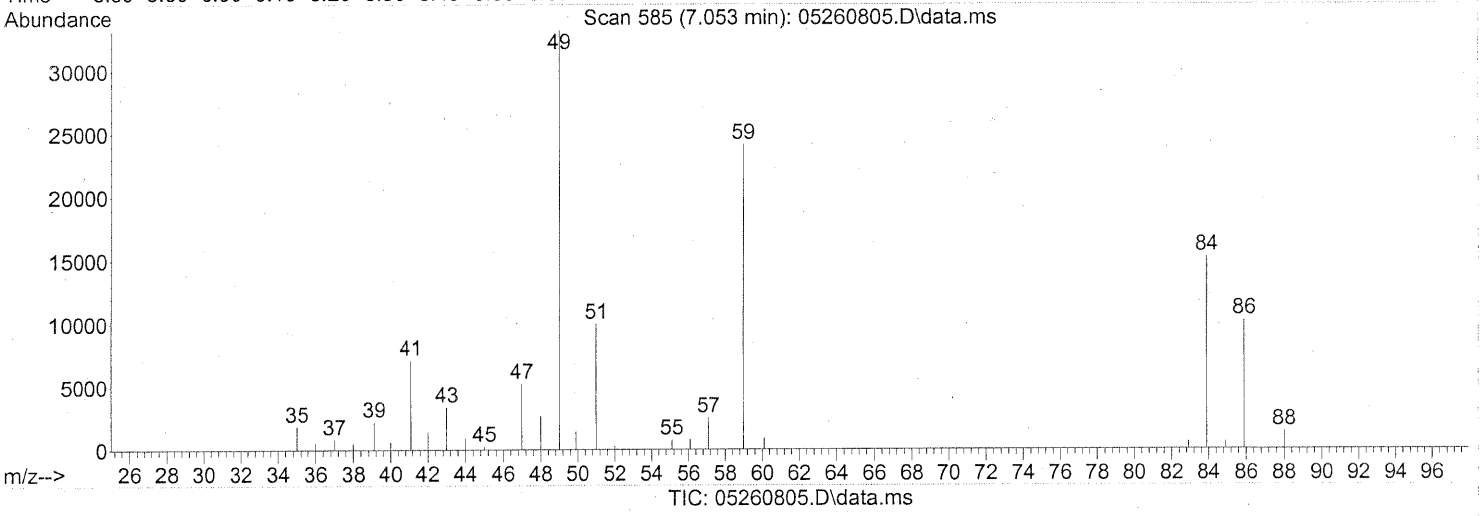
Em 5/30/08

799

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260805.D\data.ms

(18) tert-Butanol (T)

7.053min (+0.006) 2.25ng

response 174925

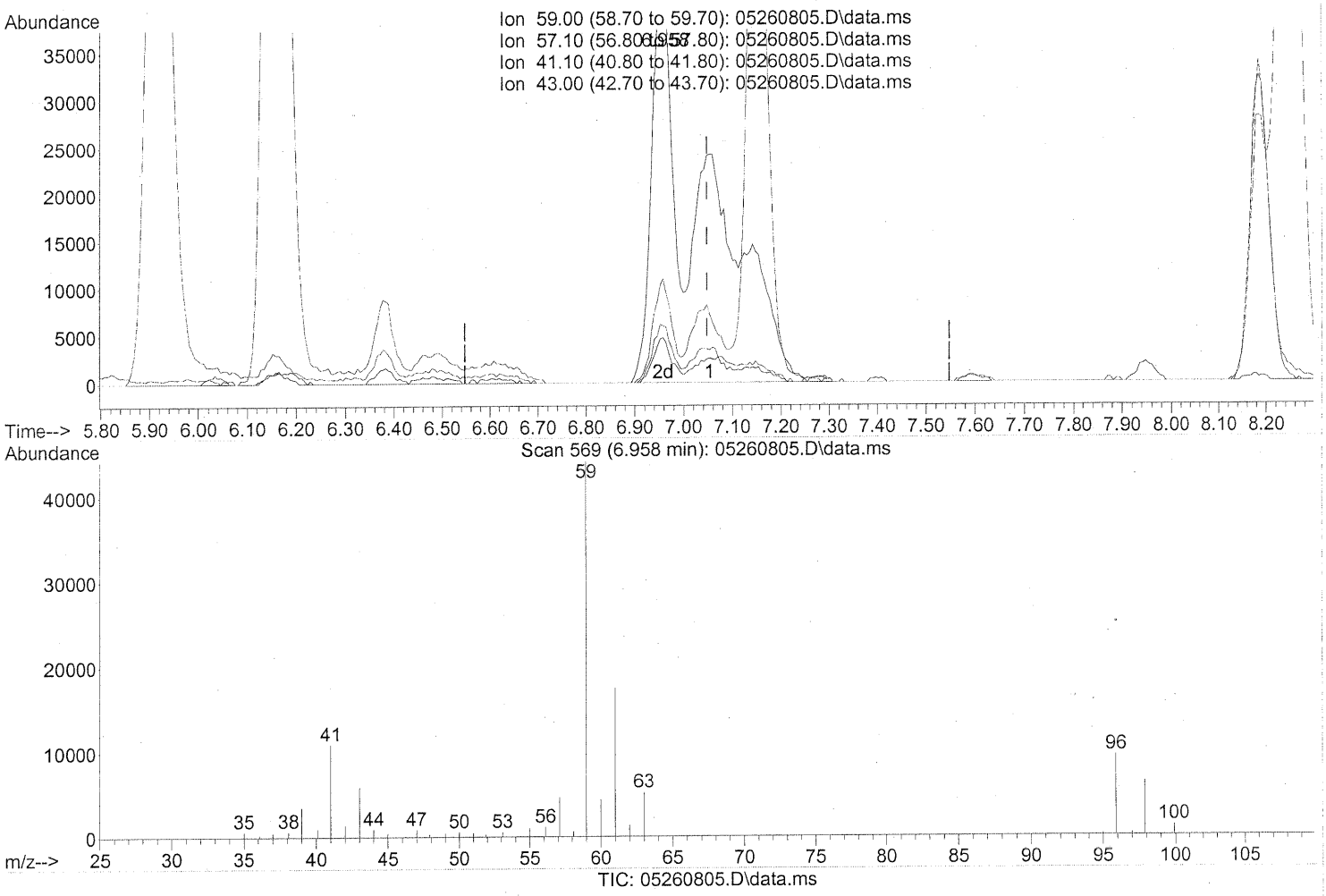
split peaks

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	18.92
43.00	17.20	0.00

800

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 6:36 pm
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:22:31 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.958min (-0.089) 3.97ng m

response 308175

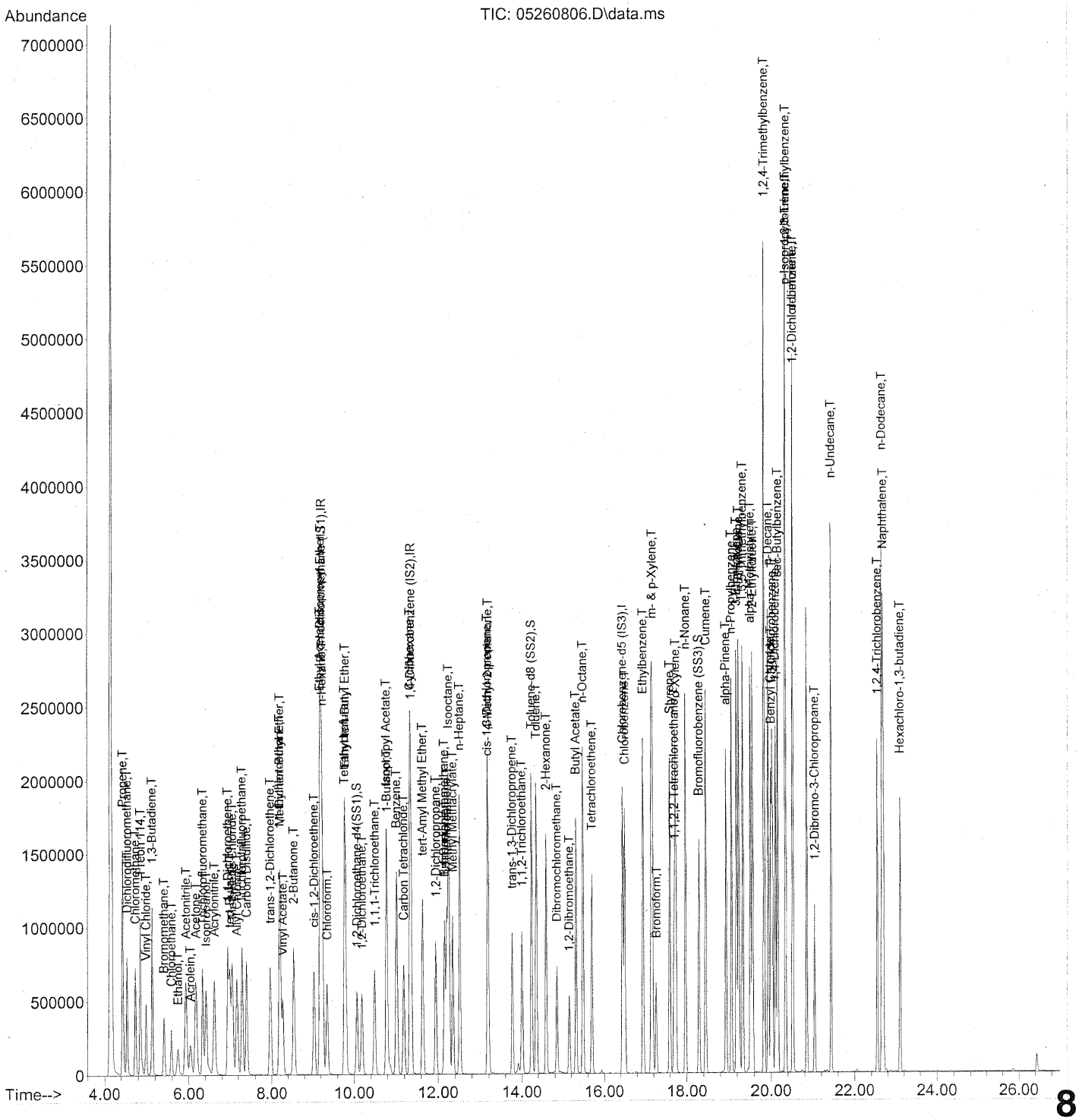
Ion	Exp%	Act%
59.00	100	100
57.10	10.00	0.00
41.10	21.90	10.74
43.00	17.20	0.00

int. whole peaks
DT 5/29/08
Em 5/30/08

801

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:25:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:25:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	395887	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	11.36	114	1634987	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	654511	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.06	65	557560	19.972	ng		-0.03
Spiked Amount 25.000			Recovery =	79.88%			
57) Toluene-d8 (SS2)	14.24	98	1660168	25.761	ng		-0.01
Spiked Amount 25.000			Recovery =	103.04%			
73) Bromofluorobenzene (SS3)	18.29	174	570371	34.007	ng		0.00
Spiked Amount 25.000			Recovery =	136.04%			
Target Compounds							Qvalue
2) Propene	4.43	42	711066	17.962	ng		93
3) Dichlorodifluoromethane	4.54	85	807036	17.242	ng		98
4) Chloromethane	4.73	50	1058342	18.289	ng		99
5) Freon 114	4.85	135	484950	21.486	ng		97
6) Vinyl Chloride	4.98	62	646924	16.191	ng		95
7) 1,3-Butadiene	5.13	54	660983	17.719	ng	#	85
8) Bromomethane	5.41	94	349784	21.245	ng		98
9) Chloroethane	5.58	64	338526	18.535	ng		96
10) Ethanol	5.74	45	432975m	15.907	ng		
11) Acetonitrile	5.94	41	1294135	18.311	ng		98
12) Acrolein	6.05	56	326130	16.827	ng		97
13) Acetone	6.18	58	468682	17.918	ng	#	79
14) Trichlorofluoromethane	6.34	101	785881	20.301	ng		100
15) Isopropanol	6.42	45	1438967m	16.967	ng		
16) Acrylonitrile	6.62	53	874549	18.799	ng		98
17) 1,1-Dichloroethene	6.95	96	407867	21.523	ng		93
18) tert-Butanol	6.99	59	1354362	17.560	ng		96
19) Methylene Chloride	7.05	84	388813	18.816	ng	#	41
20) Allyl Chloride	7.17	41	883777	20.409	ng		82
21) Trichlorotrifluoroethane	7.29	151	418494	25.724	ng		86
22) Carbon Disulfide	7.40	76	1445312	18.531	ng		100
23) trans-1,2-Dichloroethene	7.97	61	776634	19.165	ng		93
24) 1,1-Dichloroethane	8.19	63	841365	18.209	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1200934	19.334	ng		80
26) Vinyl Acetate	8.27	86	74381	14.017	ng	#	24
27) 2-Butanone	8.54	72	267468	19.847	ng	#	16
28) cis-1,2-Dichloroethene	9.04	61	719537	19.260	ng		95
29) Diisopropyl Ether	9.20	87	329457	19.209	ng	#	32
30) Ethyl Acetate	9.19	61	218755	21.946	ng		86
31) n-Hexane	9.24	57	1098299	19.497	ng		92

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:25:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.35	83	661772	22.417	ng		96
34) Tetrahydrofuran	9.77	72	262536	19.437	ng	#	46
35) Ethyl tert-Butyl Ether	9.79	87	494673	20.333	ng	#	77
36) 1,2-Dichloroethane	10.19	62	651423	18.447	ng		96
38) 1,1,1-Trichloroethane	10.50	97	664987	21.151	ng		93
39) Isopropyl Acetate	10.78	61	325499	19.477	ng	#	65
40) 1-Butanol	10.79	56	550712	17.781	ng		98
41) Benzene	11.02	78	1534046	19.139	ng		99
42) Carbon Tetrachloride	11.19	117	681759	28.723	ng		98
43) Cyclohexane	11.34	84	614898	19.368	ng	#	47
44) tert-Amyl Methyl Ether	11.63	73	1082550	19.179	ng		77
45) 1,2-Dichloropropane	11.95	63	489565	19.688	ng		96
46) Bromodichloromethane	12.15	83	529636	22.237	ng		93
47) Trichloroethene	12.21	130	544708	24.678	ng		99
48) 1,4-Dioxane	12.15	88	338329	22.469	ng	#	68
49) Isooctane	12.26	57	2583896	19.408	ng		92
50) Methyl Methacrylate	12.35	100	189120	23.895	ng	#	71
51) n-Heptane	12.52	71	411960	20.201	ng	#	51
52) cis-1,3-Dichloropropene	13.17	75	616710	19.293	ng		100
53) 4-Methyl-2-pentanone	13.19	58	576479	19.762	ng		85
54) trans-1,3-Dichloropropene	13.77	75	636098	22.529	ng		98
55) 1,1,2-Trichloroethane	14.00	97	412127	21.187	ng		91
58) Toluene	14.35	91	1765007	22.354	ng		98
59) 2-Hexanone	14.59	43	1580295	18.928	ng		99
60) Dibromochloromethane	14.85	129	557375	27.047	ng		100
61) 1,2-Dibromoethane	15.15	107	502191	24.648	ng		98
62) Butyl Acetate	15.31	43	1738953	20.414	ng		93
63) n-Octane	15.48	57	535703	21.199	ng		95
64) Tetrachloroethene	15.70	166	527210	27.016	ng		99
65) Chlorobenzene	16.50	112	1282950	24.553	ng		100
66) Ethylbenzene	16.94	91	2046467	22.722	ng		93
67) m- & p-Xylene	17.17	91	3191845	54.090	ng		92
68) Bromoform	17.26	173	403720	36.227	ng		100
69) Styrene	17.60	104	1361799	24.900	ng		94
70) o-Xylene	17.74	91	1619401	25.734	ng		93
71) n-Nonane	17.97	43	1381099	19.871	ng		94
72) 1,1,2,2-Tetrachloroethane	17.70	83	685924	24.741	ng		94
74) Cumene	18.45	105	2131977	24.251	ng		94
75) alpha-Pinene	18.93	93	1020963	23.769	ng		93
76) n-Propylbenzene	19.07	91	2422315	21.972	ng		92
77) 3-Ethyltoluene	19.19	105	2190869	23.010	ng		94
78) 4-Ethyltoluene	19.24	105	2160976	24.924	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	1846602	24.191	ng		91

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:25:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

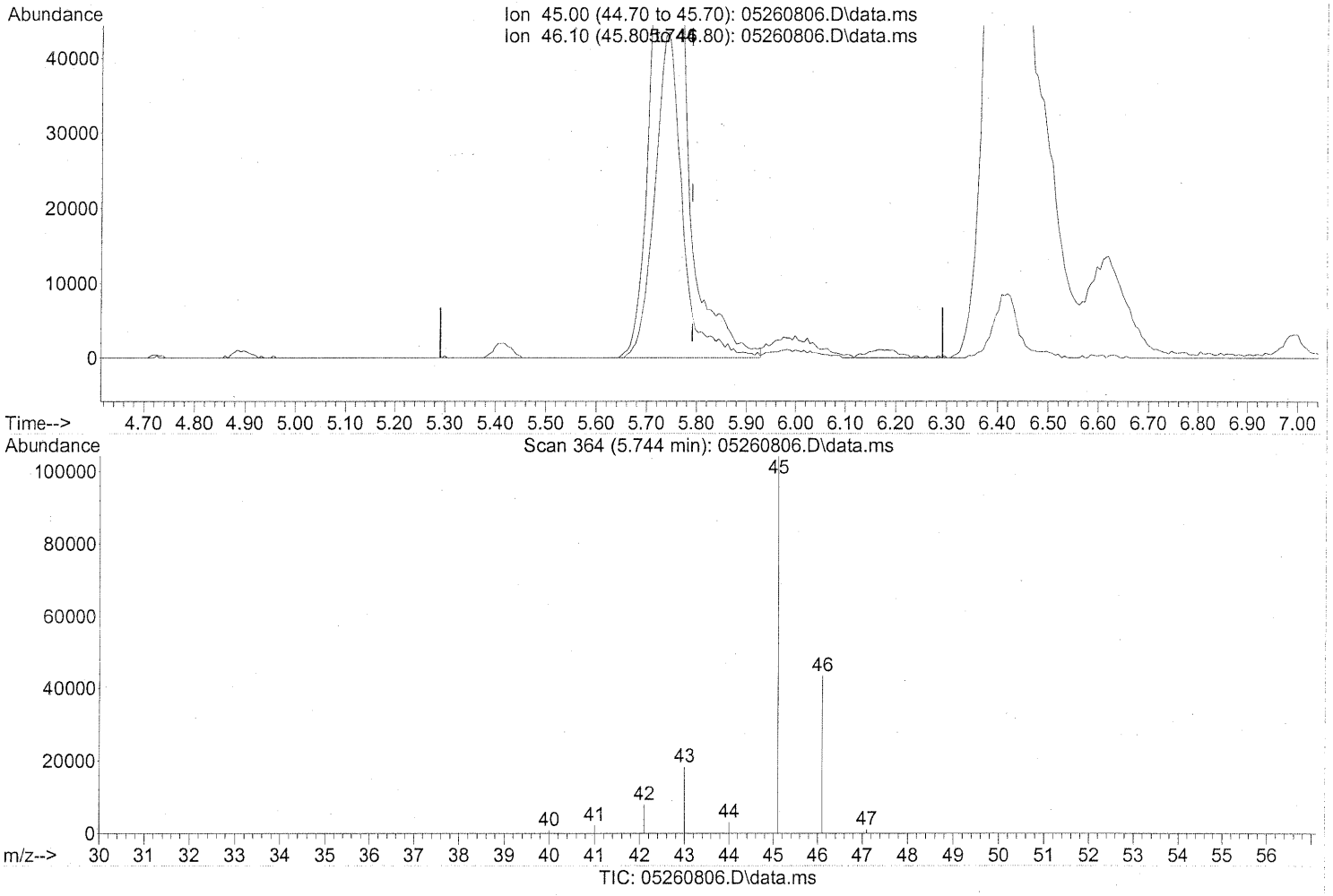
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1068773	25.806	ng		98
81) 2-Ethyltoluene	19.57	105	2113100	22.369	ng		93
82) 1,2,4-Trimethylbenzene	19.84	105	1891296	23.978	ng		91
83) n-Decane	19.93	57	1329961	21.273	ng		80
84) Benzyl Chloride	20.00	91	1537896	23.396	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1157260	25.281	ng		99
86) 1,4-Dichlorobenzene	20.10	146	1173179	26.832	ng		99
87) sec-Butylbenzene	20.16	105	2467034	24.008	ng		95
88) p-Isopropyltoluene	20.34	119	2394860	27.443	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	1881635	24.498	ng		88
90) 1,2-Dichlorobenzene	20.52	146	1092803	25.741	ng		100
91) d-Limonene	20.52	68	610872	21.467	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	377273	28.200	ng		82
93) n-Undecane	21.44	57	1450299	22.059	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	218655	29.607	ng	#	86
95) Naphthalene	22.69	128	2867866	25.695	ng		99
96) n-Dodecane	22.66	57	1475297	22.995	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	348136	31.529	ng		100

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:24:58 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.744min (-0.047) 15.24ng

response 414761

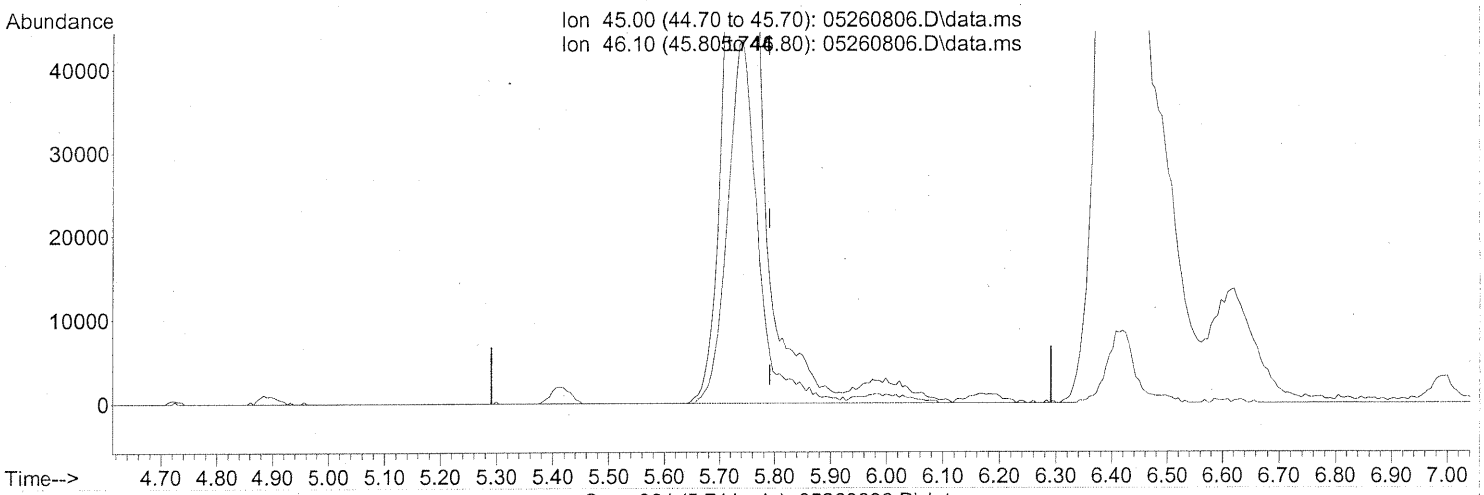
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.23
0.00	0.00	0.00
0.00	0.00	0.00

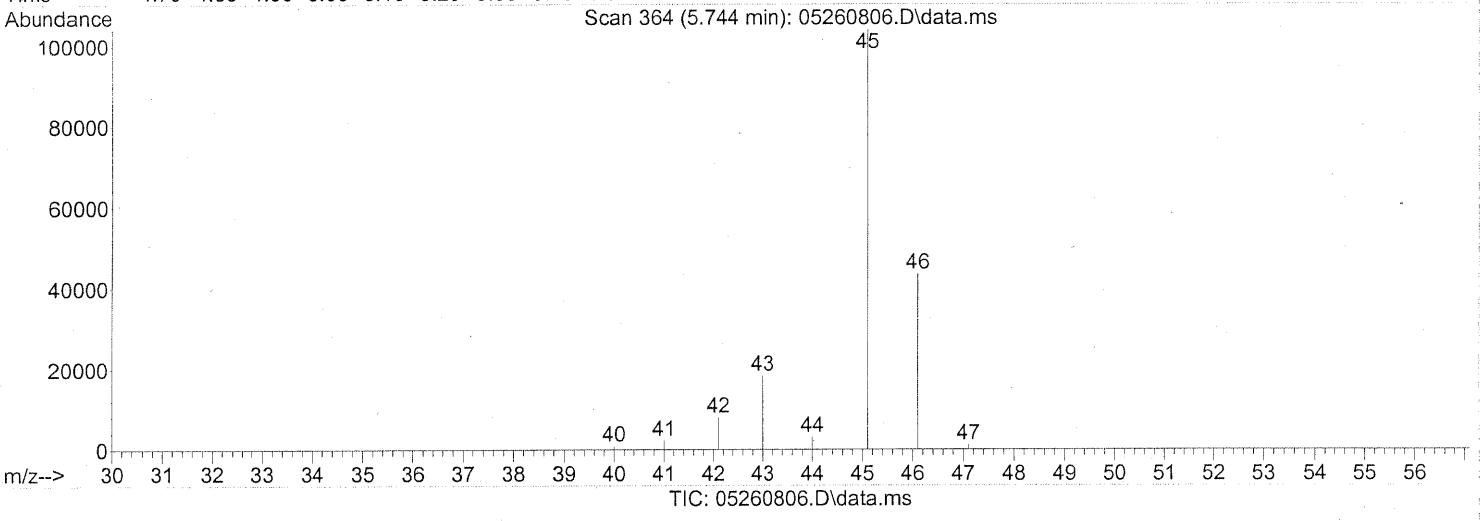
split peaks

806

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:24:58 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





(10) Ethanol (T)

5.744min (-0.047) 15.91ng m

response 432975

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.54
0.00	0.00	0.00
0.00	0.00	0.00

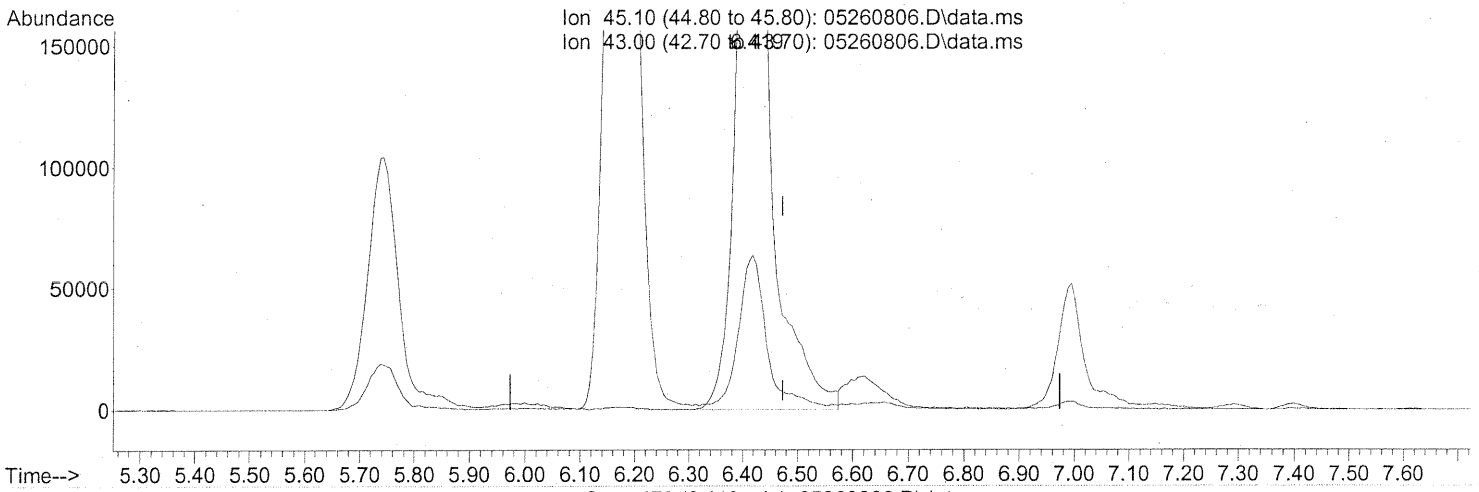
int. whole peaks

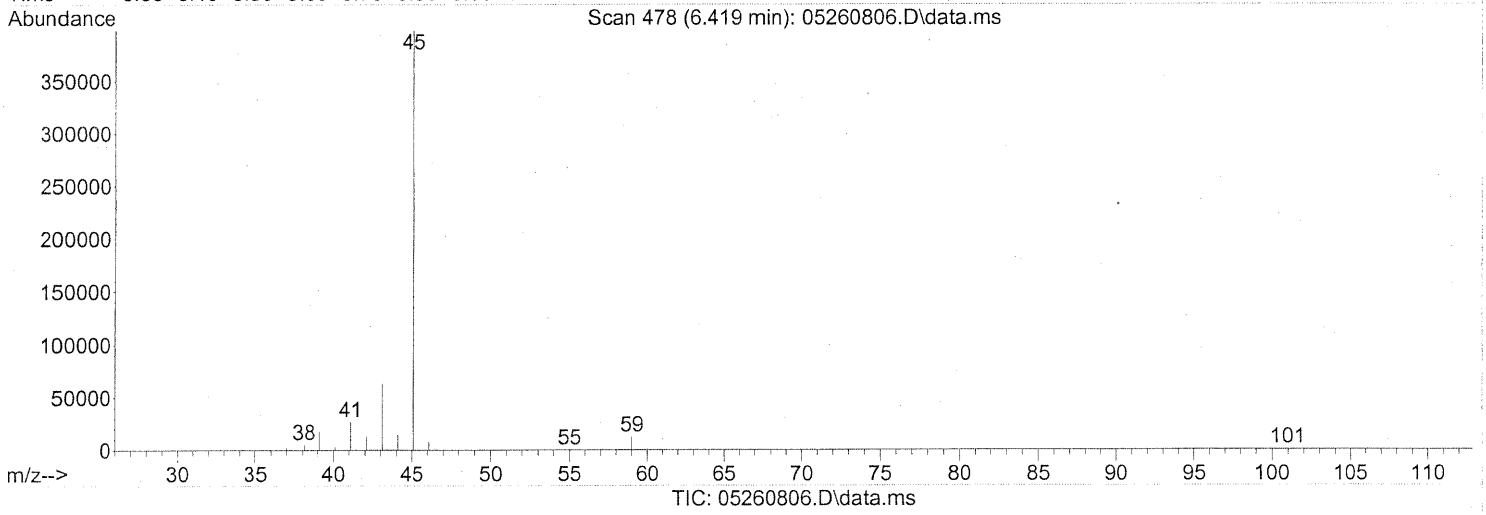
DA 5/29/08

Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:24:58 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260806.D\data.ms

(15) Isopropanol (T)

6.419min (-0.054) 16.17ng

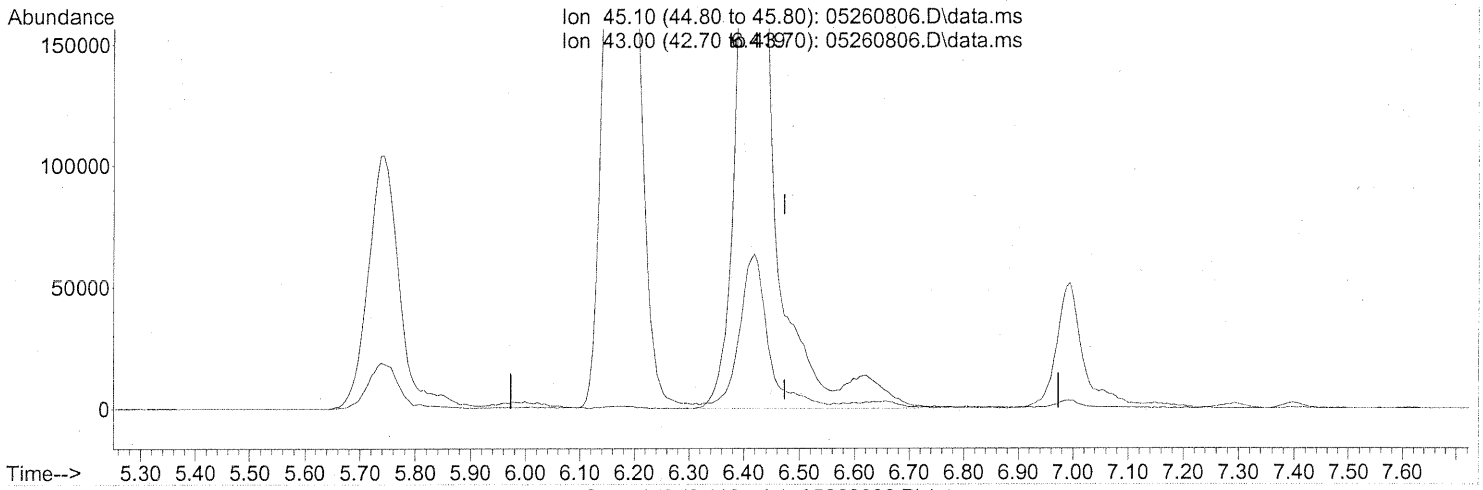
response 1371401

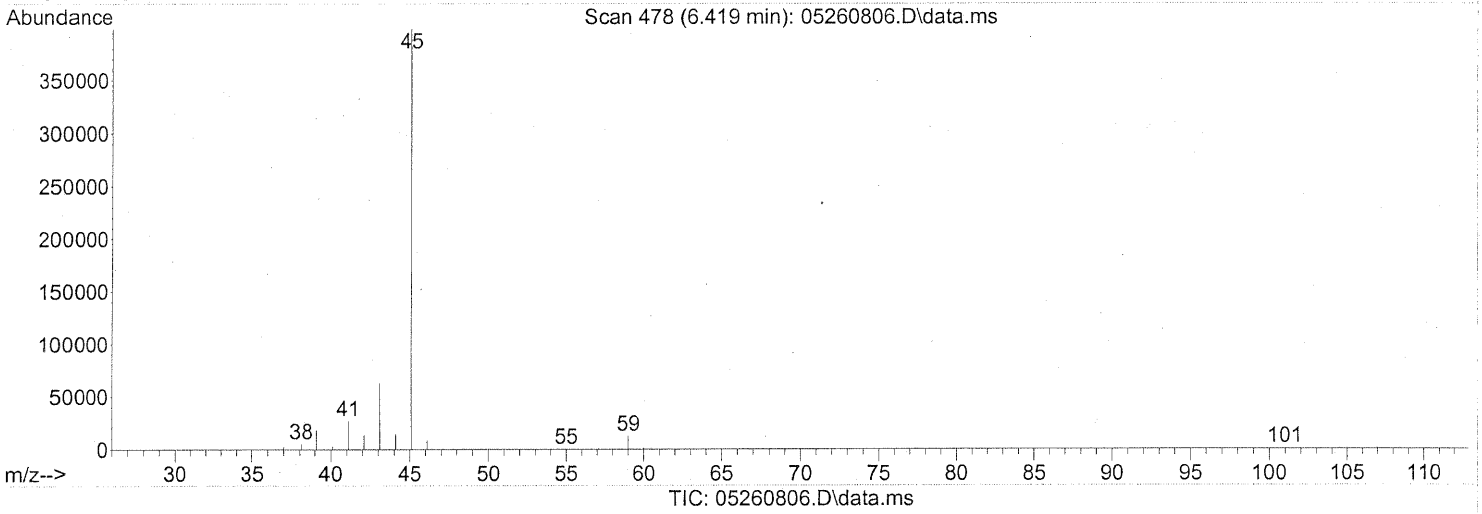
split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	17.77
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 7:14 pm
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:24:58 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260806.D\data.ms

(15) Isopropanol (T)

6.419min (-0.054) 16.97ng m

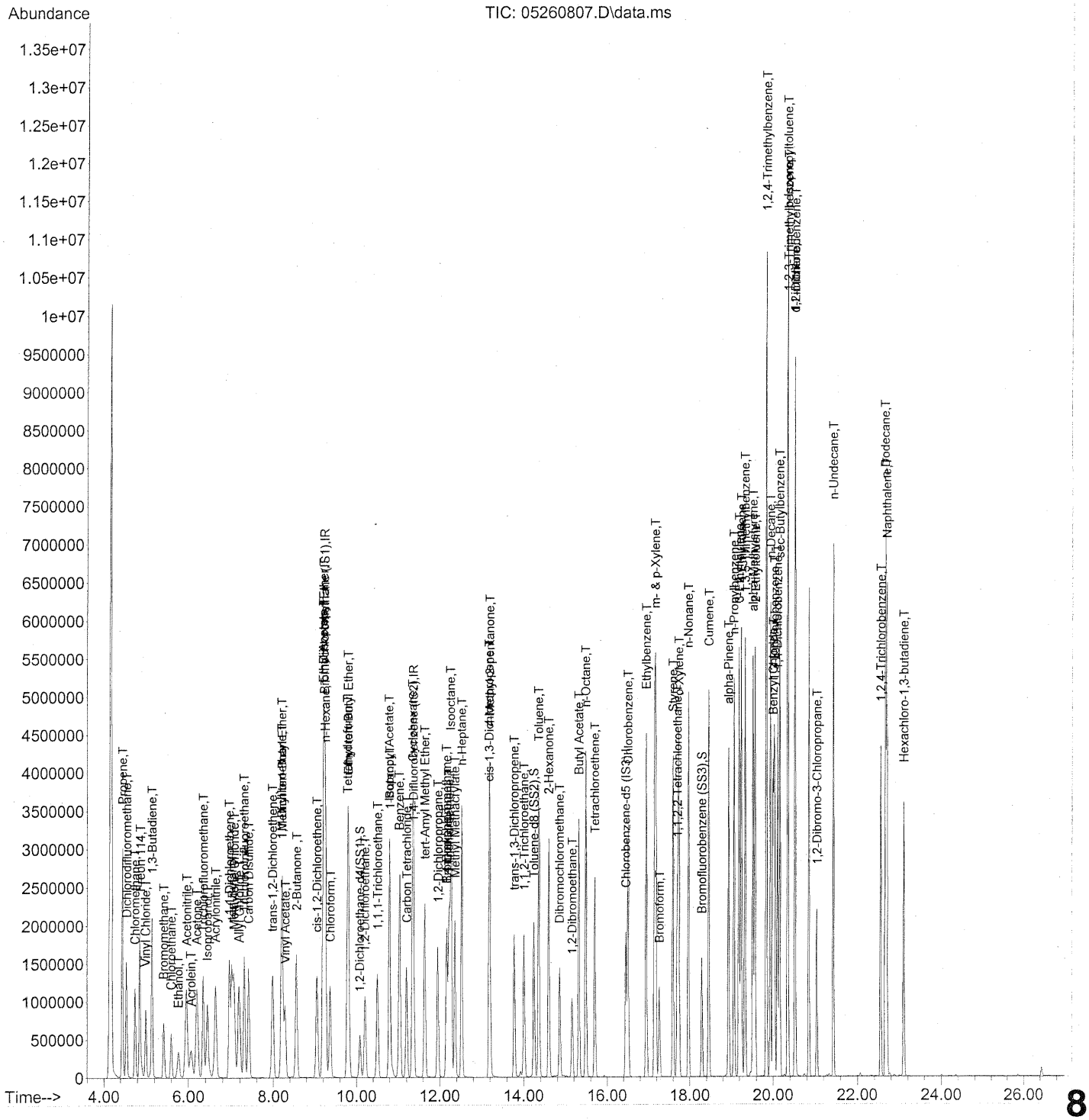
response 1438967

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.93
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
KM 5/29/08
Em 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:35:27 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:35:27 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	388471	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1647237	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	16.46	82	658280	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.08	65	561887	20.511	ng		-0.02
Spiked Amount 25.000			Recovery = 82.04%				
57) Toluene-d8 (SS2)	14.24	98	1683278	25.970	ng		0.00
Spiked Amount 25.000			Recovery = 103.88%				
73) Bromofluorobenzene (SS3)	18.29	174	578716	34.307	ng		0.00
Spiked Amount 25.000			Recovery = 137.24%				
Target Compounds							Qvalue
2) Propene	4.44	42	1488105	38.309	ng		92
3) Dichlorodifluoromethane	4.54	85	1621133	35.296	ng		98
4) Chloromethane	4.74	50	1834813	32.312	ng		99
5) Freon 114	4.86	135	950822	42.931	ng		98
6) Vinyl Chloride	4.99	62	1290533	32.916	ng		94
7) 1,3-Butadiene	5.14	54	1344963	36.742	ng	#	85
8) Bromomethane	5.42	94	677693	41.946	ng		99
9) Chloroethane	5.60	64	678681	37.868	ng		96
10) Ethanol	5.77	45	856770m	32.078	ng		
11) Acetonitrile	5.96	41	2550629	36.779	ng		98
12) Acrolein	6.06	56	659705	34.688	ng		97
13) Acetone	6.19	58	922838	35.954	ng	#	78
14) Trichlorofluoromethane	6.34	101	1577028	41.516	ng		100
15) Isopropanol	6.44	45	2469895m	29.680	ng		
16) Acrylonitrile	6.64	53	1747249	38.275	ng		97
17) 1,1-Dichloroethene	6.96	96	805359	43.310	ng		91
18) tert-Butanol	7.02	59	2656177	35.096	ng		96
19) Methylene Chloride	7.07	84	759421	37.452	ng	#	40
20) Allyl Chloride	7.18	41	1775021	41.772	ng		83
21) Trichlorotrifluoroethane	7.30	151	823320	51.574	ng		87
22) Carbon Disulfide	7.41	76	2870640	37.507	ng		100
23) trans-1,2-Dichloroethene	7.98	61	1532608	38.542	ng		93
24) 1,1-Dichloroethane	8.20	63	1668607	36.802	ng		94
25) Methyl tert-Butyl Ether	8.21	73	2388378	39.186	ng		79
26) Vinyl Acetate	8.29	86	147140	28.259	ng	#	49
27) 2-Butanone	8.56	72	531364	40.182	ng	#	20
28) cis-1,2-Dichloroethene	9.05	61	1427846	38.950	ng		94
29) Diisopropyl Ether	9.21	87	641768	38.132	ng	#	32
30) Ethyl Acetate	9.20	61	435021	44.476	ng		83
31) n-Hexane	9.25	57	2168320	39.226	ng		92

JDF 5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:35:27 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.37	83	1307274	45.129	ng		95
34) Tetrahydrofuran	9.79	72	486473	36.704	ng	#	44
35) Ethyl tert-Butyl Ether	9.80	87	975544	40.865	ng	#	76
36) 1,2-Dichloroethane	10.20	62	1286163	37.117	ng		96
38) 1,1,1-Trichloroethane	10.51	97	1337307	42.219	ng		94
39) Isopropyl Acetate	10.79	61	643632	38.228	ng	#	66
40) 1-Butanol	10.80	56	1099028	35.220	ng		97
41) Benzene	11.03	78	3034770	37.581	ng		99
42) Carbon Tetrachloride	11.20	117	1362256	56.966	ng		99
43) Cyclohexane	11.35	84	1207794	37.760	ng	#	48
44) tert-Amyl Methyl Ether	11.65	73	2159046	37.967	ng		77
45) 1,2-Dichloropropane	11.96	63	971819	38.792	ng		96
46) Bromodichloromethane	12.16	83	1042770	43.456	ng		93
47) Trichloroethene	12.21	130	1070999	48.162	ng		99
48) 1,4-Dioxane	12.16	88	661926	43.633	ng	#	67
49) Isooctane	12.26	57	5082567	37.893	ng		92
50) Methyl Methacrylate	12.36	100	374571	46.974	ng	#	71
51) n-Heptane	12.53	71	808502	39.351	ng	#	50
52) cis-1,3-Dichloropropene	13.18	75	1222015	37.944	ng		100
53) 4-Methyl-2-pentanone	13.20	58	1141926	38.854	ng		85
54) trans-1,3-Dichloropropene	13.78	75	1262997	44.399	ng		98
55) 1,1,2-Trichloroethane	14.01	97	813929	41.533	ng		90
58) Toluene	14.36	91	3509775	44.196	ng		98
59) 2-Hexanone	14.60	43	3119465	37.149	ng		99
60) Dibromochloromethane	14.85	129	1126081	54.331	ng		100
61) 1,2-Dibromoethane	15.16	107	1002547	48.924	ng		99
62) Butyl Acetate	15.32	43	3436932	40.116	ng		92
63) n-Octane	15.49	57	1061248	41.756	ng		95
64) Tetrachloroethene	15.70	166	1045308	53.259	ng		99
65) Chlorobenzene	16.51	112	2555630	48.629	ng		100
66) Ethylbenzene	16.95	91	4066809	44.896	ng		93
67) m- & p-Xylene	17.17	91	6393111	107.719	ng		92
68) Bromoform	17.27	173	811442	72.397	ng		100
69) Styrene	17.60	104	2716028	49.377	ng		94
70) o-Xylene	17.74	91	3227592	50.996	ng		93
71) n-Nonane	17.97	43	2712805	38.808	ng		95
72) 1,1,2,2-Tetrachloroethane	17.71	83	1351121	48.456	ng		93
74) Cumene	18.46	105	4265057	48.237	ng		95
75) alpha-Pinene	18.94	93	2034056	47.083	ng		93
76) n-Propylbenzene	19.07	91	4844624	43.693	ng		92
77) 3-Ethyltoluene	19.20	105	4455656	46.528	ng		95
78) 4-Ethyltoluene	19.25	105	4274342	49.017	ng		94
79) 1,3,5-Trimethylbenzene	19.34	105	3697471	48.161	ng		92

812

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:35:27 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

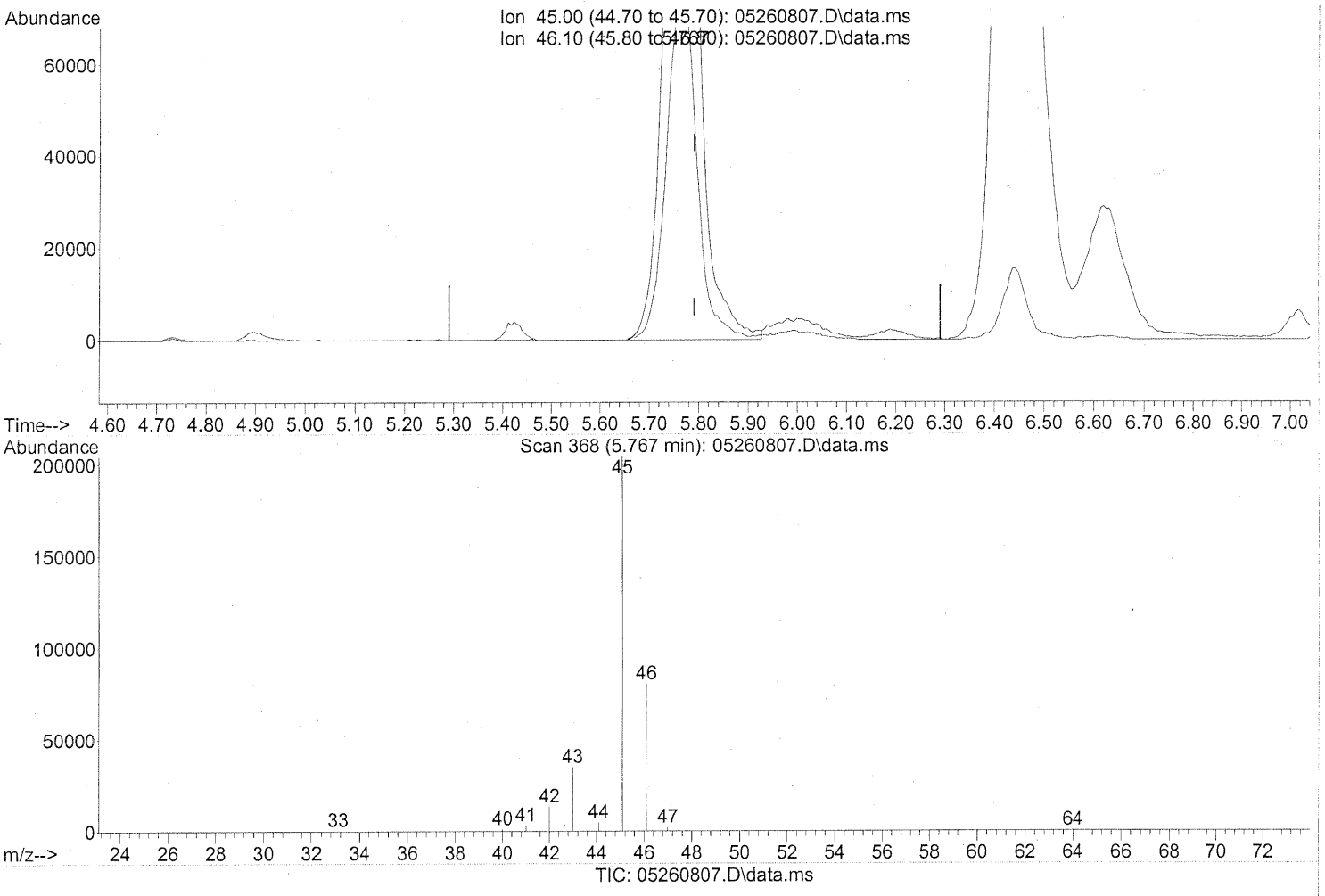
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	2132739	51.200	ng		98
81) 2-Ethyltoluene	19.57	105	4209587	44.306	ng		93
82) 1,2,4-Trimethylbenzene	19.84	105	3789214	47.764	ng		92
83) n-Decane	19.94	57	2651253	42.165	ng		79
84) Benzyl Chloride	20.00	91	3095199	46.818	ng		89
85) 1,3-Dichlorobenzene	20.03	146	2313825	50.258	ng		100
86) 1,4-Dichlorobenzene	20.11	146	2343469	53.292	ng		99
87) sec-Butylbenzene	20.16	105	4912874	47.536	ng		95
88) p-Isopropyltoluene	20.34	119	4788149	54.553	ng		93
89) 1,2,3-Trimethylbenzene	20.36	105	3760317	48.677	ng		89
90) 1,2-Dichlorobenzene	20.52	146	2147282	50.289	ng		100
91) d-Limonene	20.52	68	1220306	42.637	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	756263	56.204	ng		81
93) n-Undecane	21.43	57	2854154	43.162	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	432056	58.168	ng	#	86
95) Naphthalene	22.70	128	5732941	51.070	ng		99
96) n-Dodecane	22.66	57	2916336	45.196	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	686916	61.855	ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:34:23 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.767min (-0.024) 30.86ng

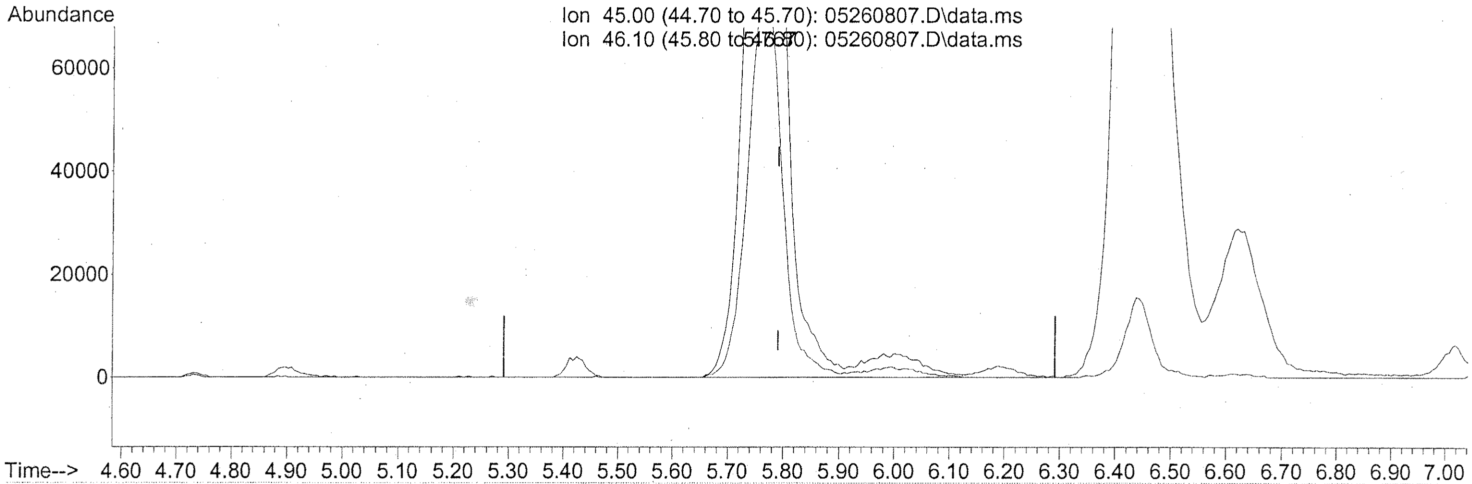
response 824365

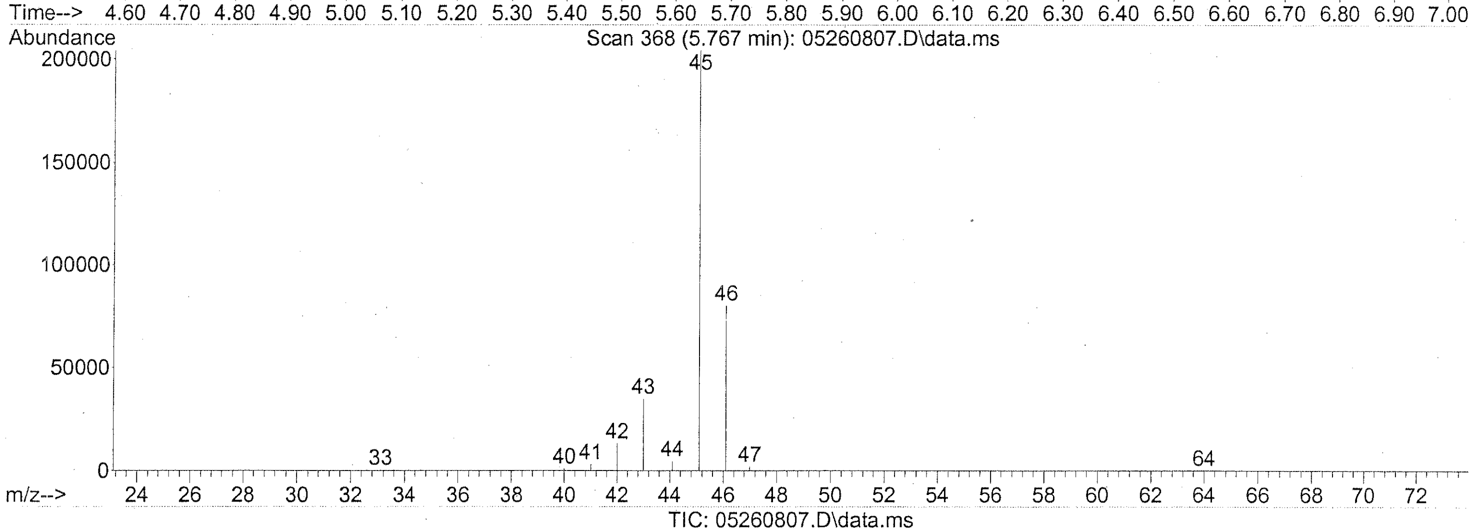
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.69
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:34:23 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





(10) Ethanol (T)

5.767min (-0.024) 32.08ng m

response 856770

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.18
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

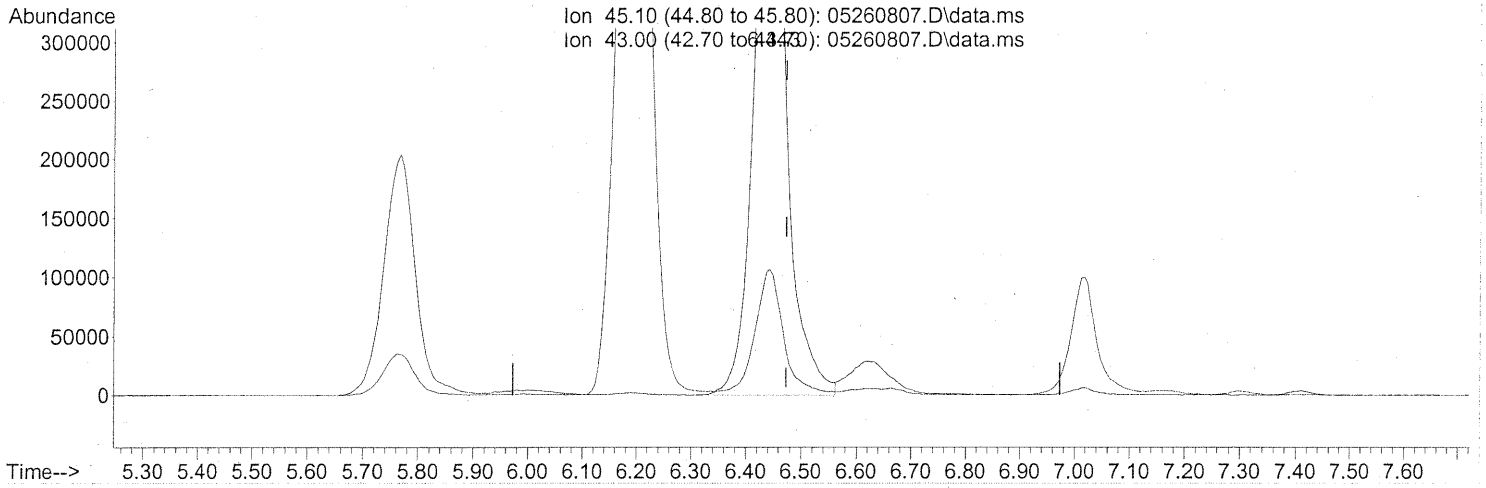
WA 5/29/08

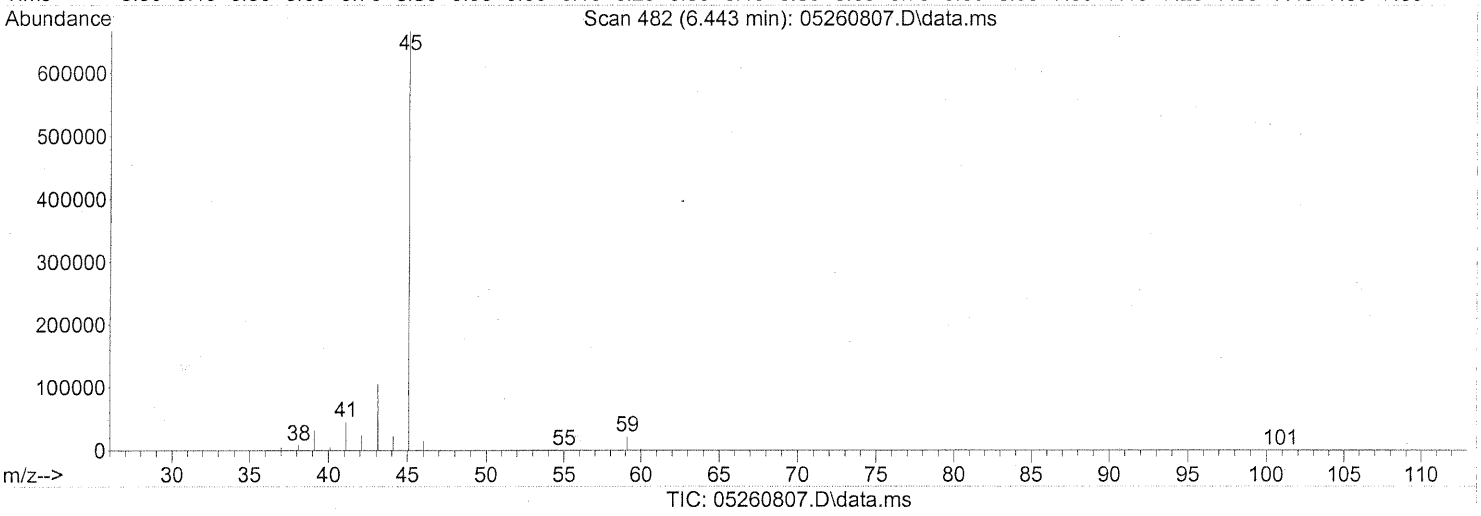
EM 5/30/08

815

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:34:23 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260807.D\data.ms

(15) Isopropanol (T)

6.443min (-0.030) 27.79ng

response 2312863

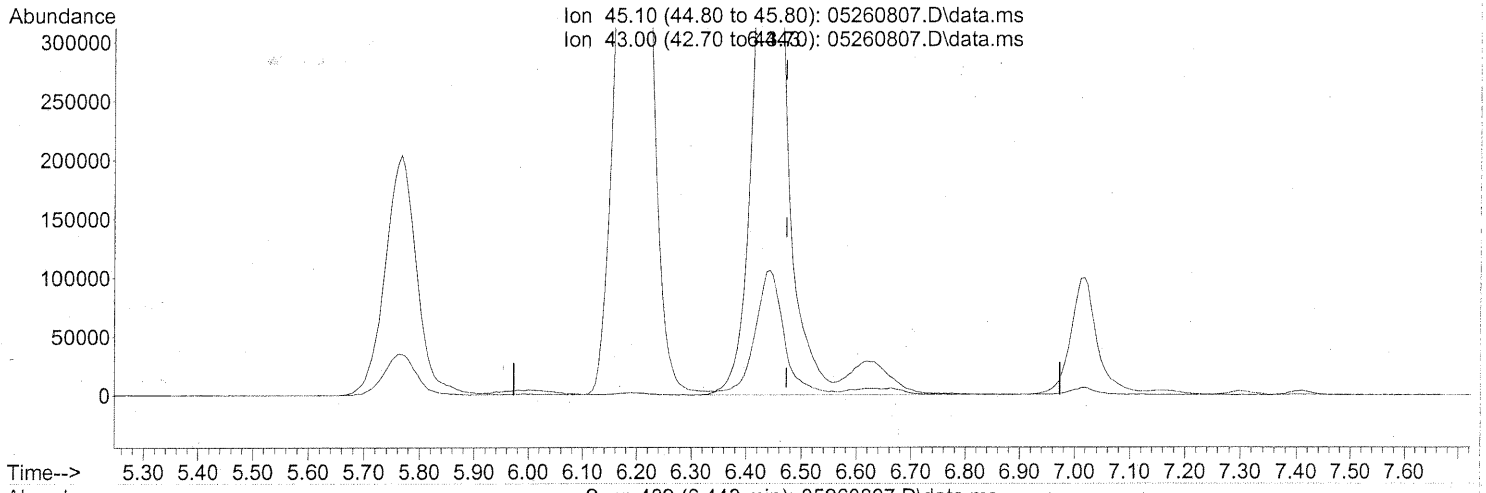
Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.50
0.00	0.00	0.00
0.00	0.00	0.00

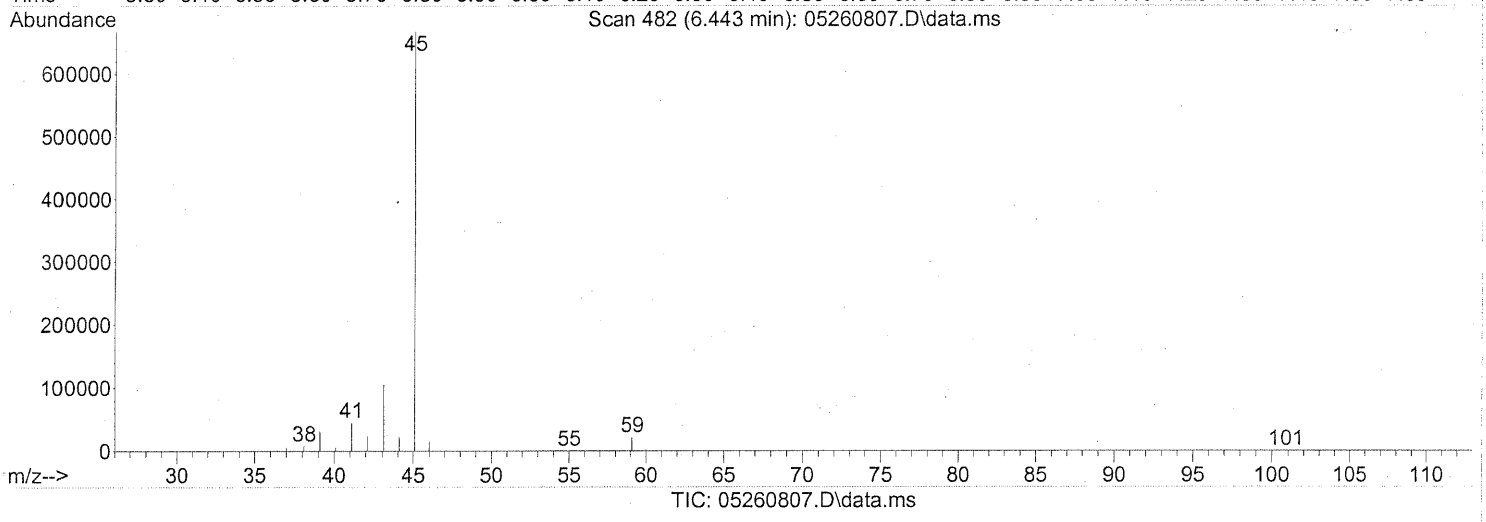
split peaks

816

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 7:52 pm
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:34:23 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





(15) Isopropanol (T)

6.443min (-0.030) 29.68ng m

response 2469895

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.45
0.00	0.00	0.00
0.00	0.00	0.00

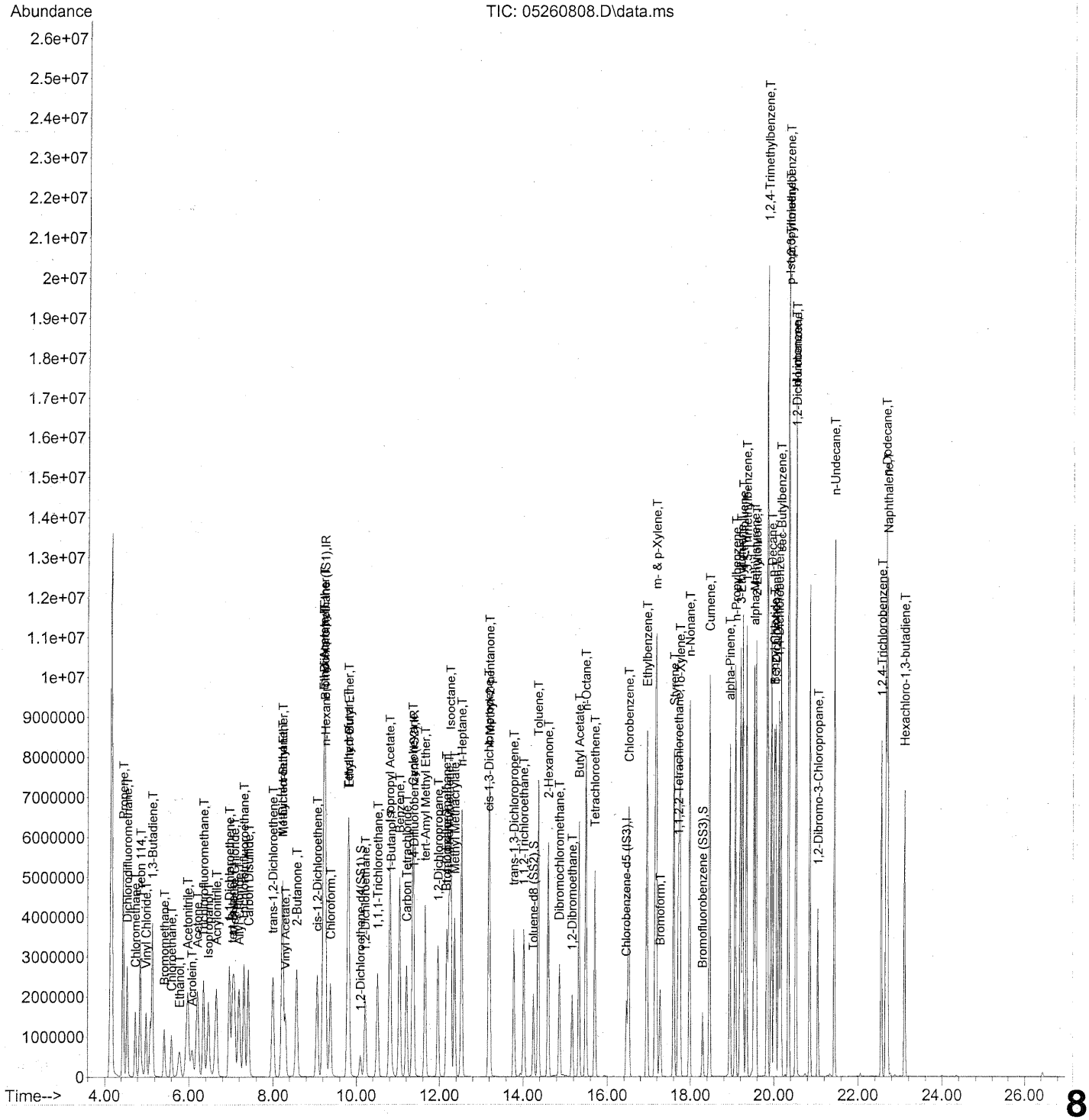
Int. whole peaks

DM 5/29/08

Tam 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:38:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:38:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.25	130	386095	25.000	ng		0.00
37) 1,4-Difluorobenzene (IS2)	11.38	114	1653539	25.000	ng		0.00
56) Chlorobenzene-d5 (IS3)	16.46	82	678453	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.09	65	565549	20.772	ng		0.00
Spiked Amount 25.000			Recovery =	83.08%			
57) Toluene-d8 (SS2)	14.25	98	1717295	25.707	ng		0.00
Spiked Amount 25.000			Recovery =	102.84%			
73) Bromofluorobenzene (SS3)	18.29	174	594590	34.200	ng		0.00
Spiked Amount 25.000			Recovery =	136.80%			
Target Compounds							Qvalue
2) Propene	4.44	42	2836829	73.478	ng		93
3) Dichlorodifluoromethane	4.54	85	3164778	69.330	ng		98
4) Chloromethane	4.74	50	2740968	48.567	ng		100
5) Freon 114	4.86	135	1854170	84.233	ng		97
6) Vinyl Chloride	4.99	62	2510365	64.422	ng		95
7) 1,3-Butadiene	5.14	54	2625216	72.158	ng		94
8) Bromomethane	5.43	94	1215673	75.708	ng		98
9) Chloroethane	5.60	64	1335144	74.956	ng		96
10) Ethanol	5.79	45	1727283	65.068	ng		97
11) Acetonitrile	5.97	41	5048612	73.246	ng		98
12) Acrolein	6.08	56	1335596	70.659	ng		97
13) Acetone	6.21	58	1851795	72.591	ng	#	77
14) Trichlorofluoromethane	6.35	101	3129612	82.895	ng		100
15) Isopropanol	6.47	45	4780400m	57.797	ng		
16) Acrylonitrile	6.66	53	3482951	76.767	ng		97
17) 1,1-Dichloroethene	6.96	96	1616756	87.479	ng		92
18) tert-Butanol	7.04	59	3031545	40.302	ng		95
19) Methylene Chloride	7.08	84	1519492	75.397	ng	#	41
20) Allyl Chloride	7.19	41	3565453	84.424	ng		83
21) Trichlorotrifluoroethane	7.31	151	1622190	102.243	ng		86
22) Carbon Disulfide	7.41	76	5744041	75.513	ng		100
23) trans-1,2-Dichloroethene	7.99	61	3071136	77.709	ng		92
24) 1,1-Dichloroethane	8.21	63	3338718	74.091	ng		94
25) Methyl tert-Butyl Ether	8.22	73	4755909	78.510	ng		80
26) Vinyl Acetate	8.29	86	259984	50.238	ng	#	1
27) 2-Butanone	8.57	72	956253	72.757	ng	#	22
28) cis-1,2-Dichloroethene	9.06	61	2855733	78.380	ng		94
29) Diisopropyl Ether	9.22	87	1250910	74.783	ng	#	36
30) Ethyl Acetate	9.22	61	839698	86.377	ng		83
31) n-Hexane	9.26	57	4256079	77.469	ng		92

5/29/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:38:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.38	83	2628154	91.286	ng		95
34) Tetrahydrofuran	9.80	72	934904	70.972	ng	#	49
35) Ethyl tert-Butyl Ether	9.81	87	1930911	81.383	ng	#	75
36) 1,2-Dichloroethane	10.21	62	2544747	73.889	ng		96
38) 1,1,1-Trichloroethane	10.51	97	2645547	83.201	ng		94
39) Isopropyl Acetate	10.80	61	1275935	75.494	ng	#	69
40) 1-Butanol	10.83	56	2176266	69.476	ng		95
41) Benzene	11.04	78	6068695	74.864	ng		99
42) Carbon Tetrachloride	11.21	117	2729440	113.703	ng		99
43) Cyclohexane	11.36	84	2390624	74.454	ng	#	48
44) tert-Amyl Methyl Ether	11.65	73	4315624	75.601	ng		79
45) 1,2-Dichloropropane	11.97	63	1931077	76.789	ng		96
46) Bromodichloromethane	12.17	83	2062510	85.625	ng		93
47) Trichloroethene	12.23	130	2117063	94.839	ng		99
48) 1,4-Dioxane	12.17	88	1294622	85.014	ng	#	67
49) Isooctane	12.27	57	10174043	75.563	ng		90
50) Methyl Methacrylate	12.37	100	739610	92.399	ng	#	72
51) n-Heptane	12.53	71	1583461	76.776	ng	#	49
52) cis-1,3-Dichloropropene	13.19	75	2417177	74.769	ng		100
53) 4-Methyl-2-pentanone	13.21	58	2251466	76.314	ng		85
54) trans-1,3-Dichloropropene	13.79	75	2552526	89.388	ng		98
55) 1,1,2-Trichloroethane	14.02	97	1622420	82.473	ng		90
58) Toluene	14.37	91	7020369	85.775	ng		98
59) 2-Hexanone	14.61	43	6083087	70.288	ng		99
60) Dibromochloromethane	14.86	129	2268151	106.179	ng		99
61) 1,2-Dibromoethane	15.17	107	1999750	94.686	ng		99
62) Butyl Acetate	15.33	43	6742260	76.356	ng		92
63) n-Octane	15.49	57	2098429	80.111	ng		95
64) Tetrachloroethene	15.71	166	2093850	103.511	ng		99
65) Chlorobenzene	16.52	112	5089602	93.966	ng		100
66) Ethylbenzene	16.96	91	8177162	87.588	ng		94
67) m- & p-Xylene	17.18	91	12867420	210.360	ng		94
68) Bromoform	17.28	173	1639282	141.908	ng		100
69) Styrene	17.61	104	5444049	96.029	ng		94
70) o-Xylene	17.75	91	6459028	99.019	ng		94
71) n-Nonane	17.98	43	5192086	72.067	ng		94
72) 1,1,2,2-Tetrachloroethane	17.71	83	2665244	92.743	ng		92
74) Cumene	18.46	105	8588112	94.242	ng		96
75) alpha-Pinene	18.94	93	4054737	91.066	ng		93
76) n-Propylbenzene	19.08	91	9691442	84.807	ng		93
77) 3-Ethyltoluene	19.20	105	8989744	91.084	ng		96
78) 4-Ethyltoluene	19.25	105	8567996	95.333	ng		95
79) 1,3,5-Trimethylbenzene	19.34	105	7490986	94.671	ng		94

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

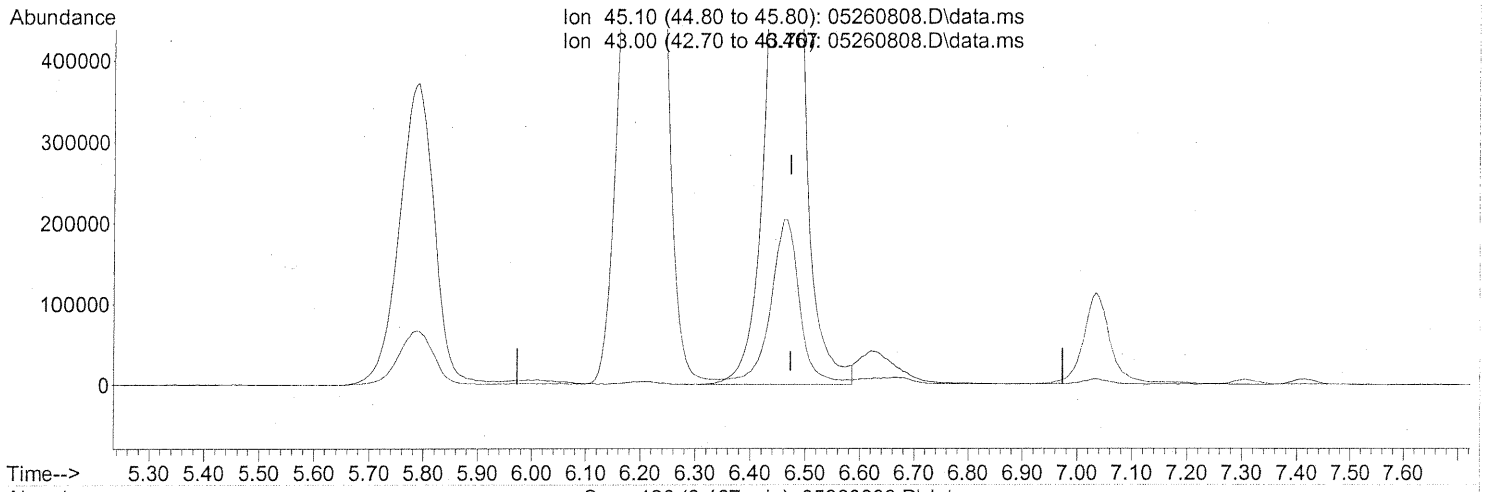
Quant Time: May 27 08:38:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration

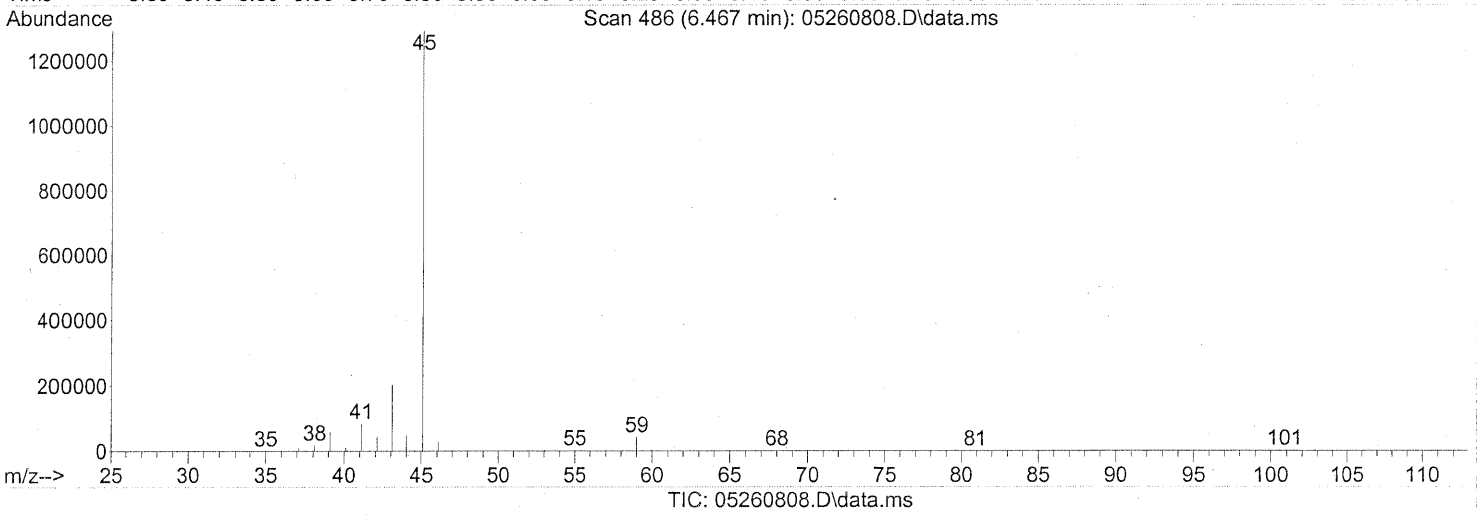
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.53	118	4259512	99.217	ng		99
81) 2-Ethyltoluene	19.58	105	8490812	86.710	ng		94
82) 1,2,4-Trimethylbenzene	19.85	105	7596628	92.911	ng		94
83) n-Decane	19.94	57	5211640	80.420	ng		79
84) Benzyl Chloride	20.01	91	6261225	91.891	ng		90
85) 1,3-Dichlorobenzene	20.04	146	4611892	97.195	ng		100
86) 1,4-Dichlorobenzene	20.11	146	4696419	103.623	ng		99
87) sec-Butylbenzene	20.17	105	9897976	92.924	ng		96
88) p-Isopropyltoluene	20.36	119	9553769	105.614	ng		94
89) 1,2,3-Trimethylbenzene	20.36	105	7531861	94.600	ng		90
90) 1,2-Dichlorobenzene	20.53	146	4208026	95.621	ng		100
91) d-Limonene	20.52	68	2427100	82.281	ng		89
92) 1,2-Dibromo-3-Chloropr...	21.05	157	1517346	109.413	ng		80
93) n-Undecane	21.44	57	5629788	82.606	ng		78
94) 1,2,4-Trichlorobenzene	22.56	184	854314	111.596	ng	#	84
95) Naphthalene	22.70	128	11582774	100.114	ng		99
96) n-Dodecane	22.67	57	5705966	85.800	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	1376955	120.304	ng		100

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:37:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





TIC: 05260808.D\data.ms

(15) Isopropanol (T)

6.467min (-0.006) 55.18ng

response 4564134

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.36
0.00	0.00	0.00
0.00	0.00	0.00

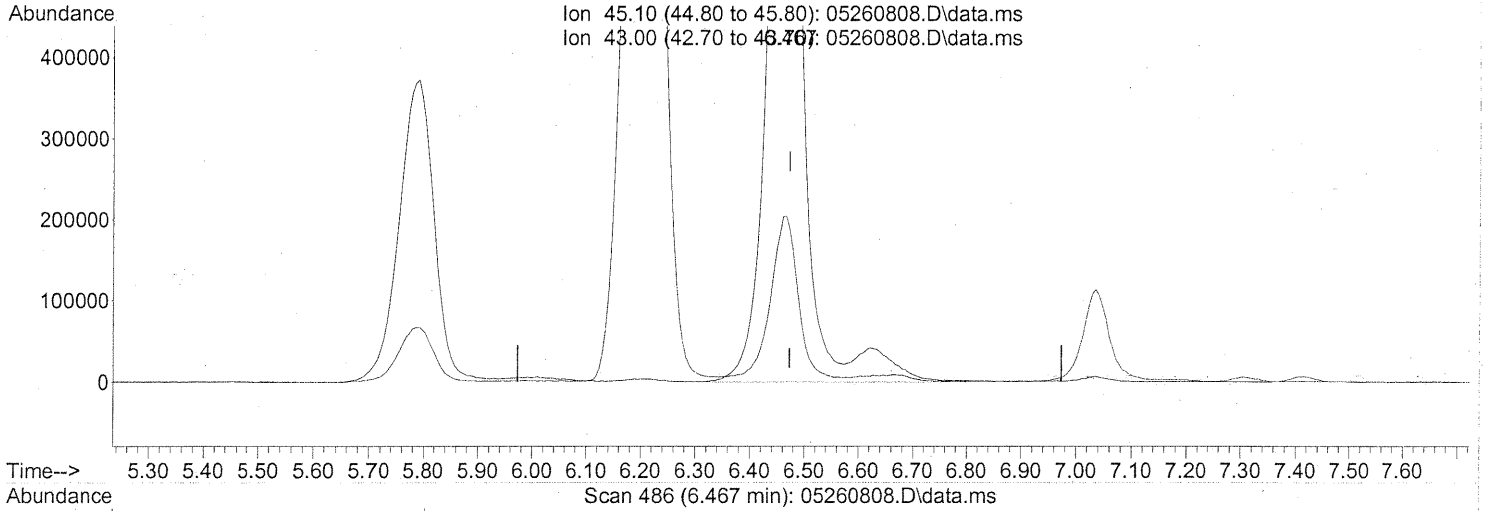
split peaks

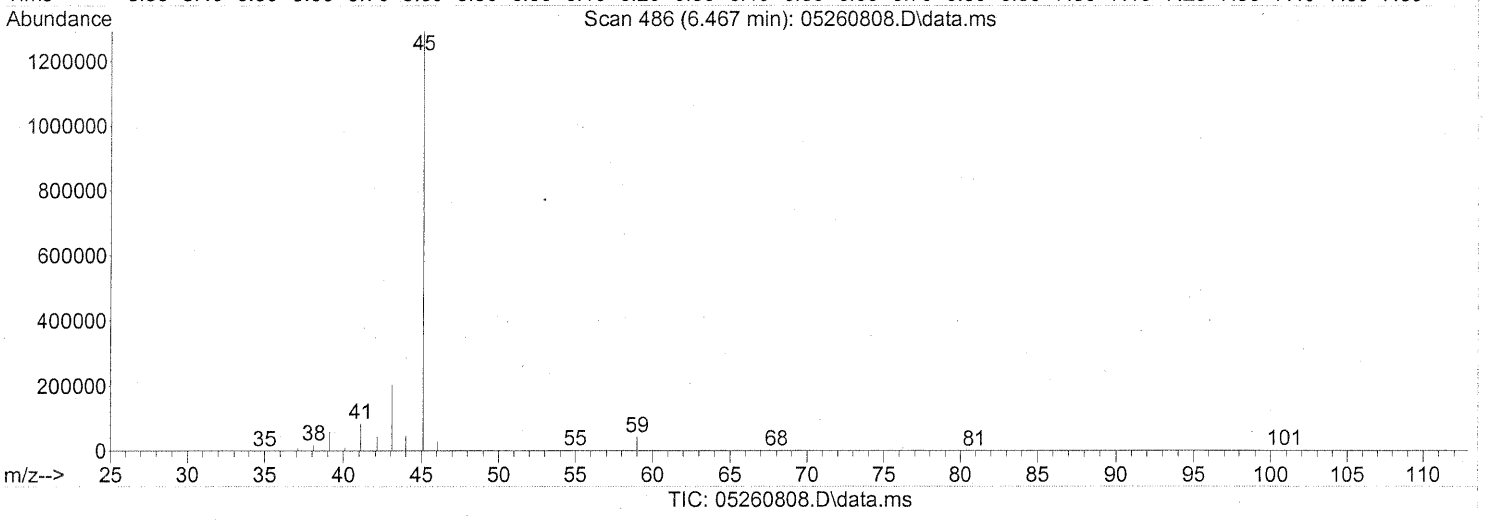
822

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 8:30 pm
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 08:37:01 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Mon May 12 20:47:38 2008
Response via : Initial Calibration





(15) Isopropanol (T)

6.467min (-0.006) 57.80ng m

response 4780400

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.62
0.00	0.00	0.00
0.00	0.00	0.00

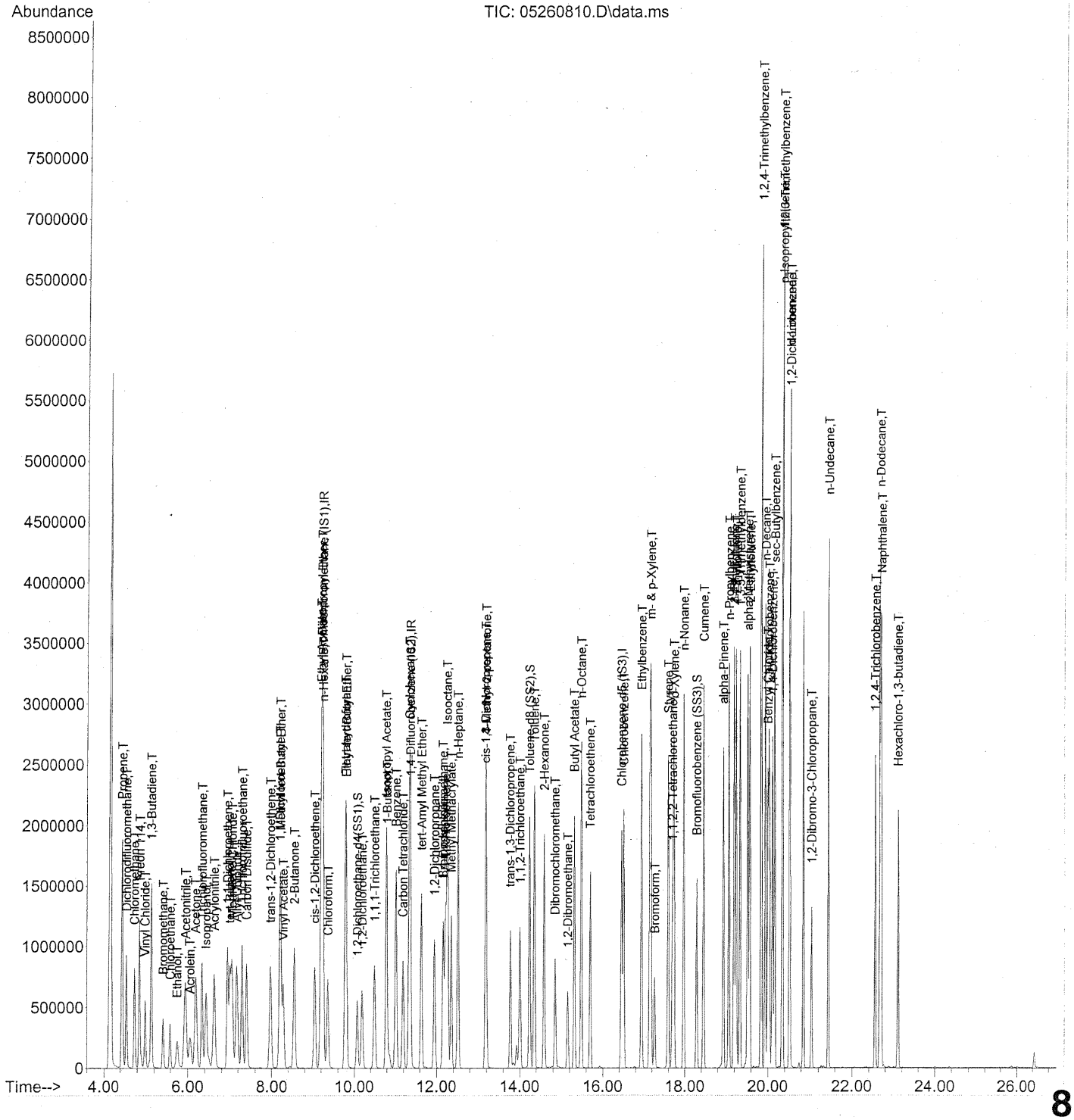
int. whole peaks

DA 5/29/08

Tom 5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:42:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:42:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	407859	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.37	114	1689589	25.000	ng		-0.01
56) Chlorobenzene-d5 (IS3)	16.45	82	667061	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.07	65	569355	24.413	ng		-0.02
Spiked Amount 25.000			Recovery =	97.64%			
57) Toluene-d8 (SS2)	14.24	98	1713292	24.913	ng		-0.01
Spiked Amount 25.000			Recovery =	99.64%			
73) Bromofluorobenzene (SS3)	18.29	174	581376	25.427	ng		0.00
Spiked Amount 25.000			Recovery =	101.72%			
Target Compounds							Qvalue
2) Propene	4.43	42	871029	27.588	ng		92
3) Dichlorodifluoromethane	4.53	85	956715	25.053	ng		98
4) Chloromethane	4.73	50	1227596	25.585	ng		100
5) Freon 114	4.85	135	586768	27.492	ng		97
6) Vinyl Chloride	4.98	62	766426	25.082	ng		95
7) 1,3-Butadiene	5.13	54	924731	33.202	ng	#	85
8) Bromomethane	5.42	94	365175	23.185	ng		98
9) Chloroethane	5.59	64	408506	25.871	ng		95
10) Ethanol	5.76	45	574235m	26.806	ng		
11) Acetonitrile	5.95	41	1528567	24.755	ng		98
12) Acrolein	6.05	56	435174	28.174	ng		97
13) Acetone	6.18	58	597804	28.051	ng	#	74
14) Trichlorofluoromethane	6.34	101	986041	27.583	ng		100
15) Isopropanol	6.43	45	1696236m	26.423	ng		
16) Acrylonitrile	6.63	53	1098277	28.353	ng		97
17) 1,1-Dichloroethene	6.95	96	508940	30.507	ng		96
18) tert-Butanol	7.01	59	1687948m	28.203	ng		
19) Methylene Chloride	7.06	84	479985	29.201	ng	#	49
20) Allyl Chloride	7.17	41	1164762	30.741	ng		83
21) Trichlorotrifluoroethane	7.30	151	509817	29.349	ng		86
22) Carbon Disulfide	7.40	76	1682270	25.445	ng		100
23) trans-1,2-Dichloroethene	7.97	61	944480	28.745	ng		94
24) 1,1-Dichloroethane	8.19	63	1027210	29.440	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1483694	29.124	ng		81
26) Vinyl Acetate	8.27	86	111507	31.947	ng	#	1
27) 2-Butanone	8.55	72	327282	29.373	ng	#	28
28) cis-1,2-Dichloroethene	9.04	61	876026	28.989	ng		95
29) Diisopropyl Ether	9.20	87	423126	28.830	ng	#	54
30) Ethyl Acetate	9.19	61	248591	31.977	ng		86
31) n-Hexane	9.24	57	1311592	28.226	ng		92

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 29 11:42:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.36	83	803558	33.387	ng		96
34) Tetrahydrofuran	9.78	72	313496	29.935	ng	#	52
35) Ethyl tert-Butyl Ether	9.80	87	617165	28.731	ng	#	79
36) 1,2-Dichloroethane	10.19	62	771745	27.968	ng		96
38) 1,1,1-Trichloroethane	10.50	97	813898	28.294	ng		94
39) Isopropyl Acetate	10.78	61	410147	28.711	ng	#	71
40) 1-Butanol	10.80	56	710564	25.551	ng		94
41) Benzene	11.02	78	1886912	26.487	ng		99
42) Carbon Tetrachloride	11.19	117	830520	28.424	ng		98
43) Cyclohexane	11.34	84	745661	26.772	ng	#	49
44) tert-Amyl Methyl Ether	11.64	73	1370343	28.890	ng		79
45) 1,2-Dichloropropane	11.95	63	597803	28.418	ng		96
46) Bromodichloromethane	12.15	83	641317	30.627	ng		93
47) Trichloroethene	12.21	130	652583	29.430	ng		99
48) 1,4-Dioxane	12.16	88	409402	30.764	ng	#	70
49) Isooctane	12.26	57	3206684	28.156	ng		91
50) Methyl Methacrylate	12.35	100	233408	30.538	ng	#	69
51) n-Heptane	12.52	71	495434	29.136	ng	#	52
52) cis-1,3-Dichloropropene	13.17	75	746984	28.174	ng		99
53) 4-Methyl-2-pentanone	13.19	58	694096	28.024	ng		85
54) trans-1,3-Dichloropropene	13.77	75	764174	31.268	ng		99
55) 1,1,2-Trichloroethane	14.00	97	499675	28.839	ng		90
58) Toluene	14.35	91	2149242	27.551	ng		98
59) 2-Hexanone	14.59	43	1852856	25.150	ng		99
60) Dibromochloromethane	14.85	129	685950	29.798	ng		100
61) 1,2-Dibromoethane	15.15	107	603979	28.201	ng		98
62) Butyl Acetate	15.31	43	2068043	27.918	ng		91
63) n-Octane	15.48	57	660220	27.989	ng		95
64) Tetrachloroethene	15.70	166	644791	27.945	ng		99
65) Chlorobenzene	16.50	112	1549150	27.869	ng		100
66) Ethylbenzene	16.94	91	2462734	27.774	ng		93
67) m- & p-Xylene	17.16	91	3862781	65.751	ng		92
68) Bromoform	17.26	173	499298	37.358	ng		100
69) Styrene	17.60	104	1650770	29.087	ng		94
70) o-Xylene	17.74	91	1950703	31.023	ng		93
71) n-Nonane	17.97	43	1649502	26.582	ng		95
72) 1,1,2,2-Tetrachloroethane	17.70	83	819359	31.468	ng		93
74) Cumene	18.45	105	2654480	28.998	ng		95
75) alpha-Pinene	18.93	93	1240581	28.884	ng		92
76) n-Propylbenzene	19.07	91	2982474	28.037	ng		92
77) 3-Ethyltoluene	19.19	105	2684594	26.733	ng		95
78) 4-Ethyltoluene	19.24	105	2583452	28.514	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	2218816	27.621	ng		92

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

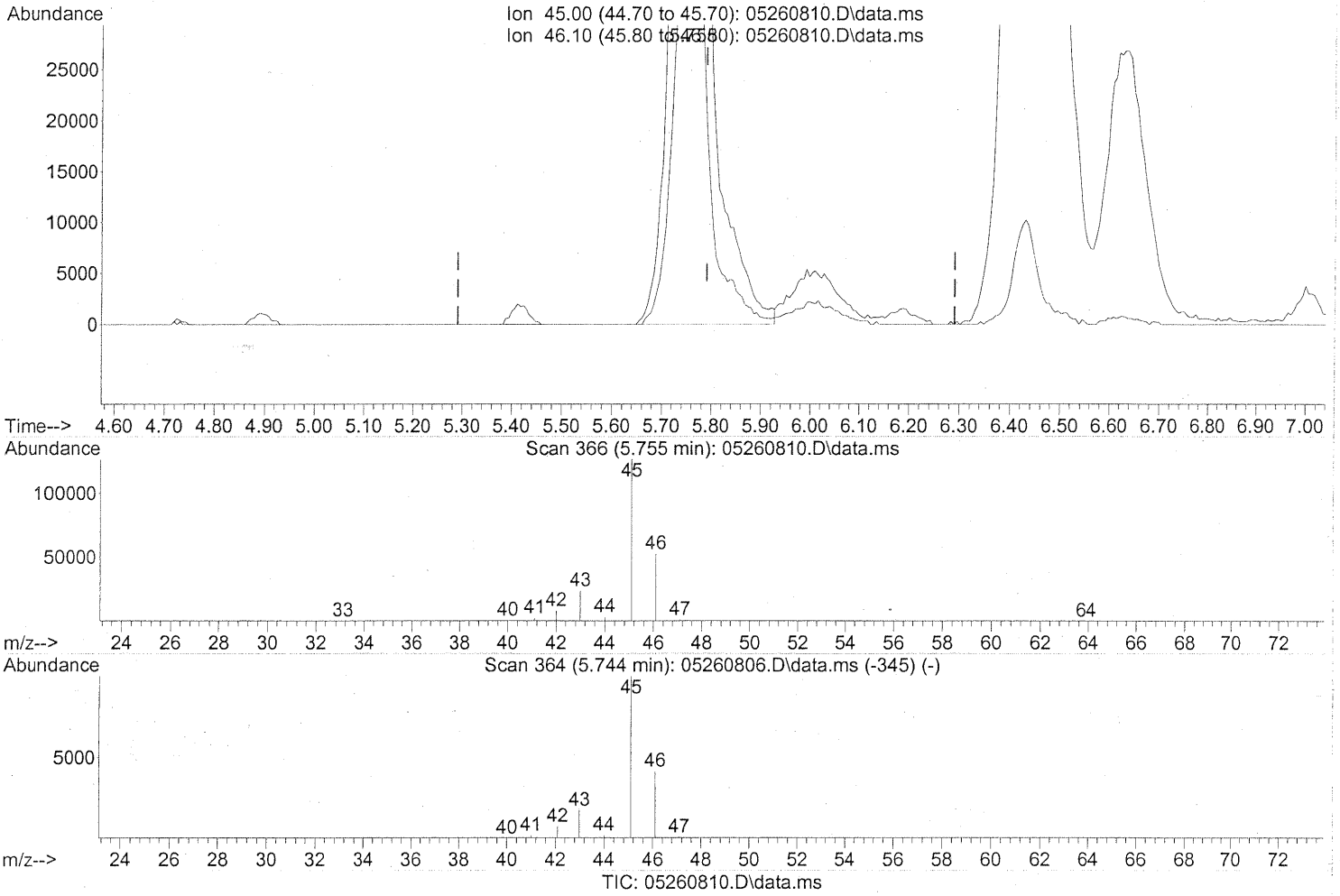
Quant Time: May 29 11:42:04 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1279743	28.331	ng		98
81) 2-Ethyltoluene	19.57	105	2596793	26.669	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	2237271	27.509	ng		91
83) n-Decane	19.93	57	1621913	28.170	ng		80
84) Benzyl Chloride	19.99	91	1864065	29.664	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1391479	27.002	ng		99
86) 1,4-Dichlorobenzene	20.11	146	1408092	28.147	ng		99
87) sec-Butylbenzene	20.16	105	3012787	28.555	ng		95
88) p-Isopropyltoluene	20.34	119	2905255	31.517	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	2345312	30.034	ng		89
90) 1,2-Dichlorobenzene	20.52	146	1285779	27.181	ng		100
91) d-Limonene	20.52	68	718757	28.679	ng		87
92) 1,2-Dibromo-3-Chloropr...	21.04	157	447167	29.409	ng		80
93) n-Undecane	21.43	57	1733271	28.705	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	254025	29.687	ng	#	86
95) Naphthalene	22.70	128	3414229	28.894	ng		99
96) n-Dodecane	22.66	57	1713461	29.123	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	404761	28.471	ng		99

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05260810.D\data.ms

(10) Ethanol (T)

5.755min (-0.036) 25.17ng

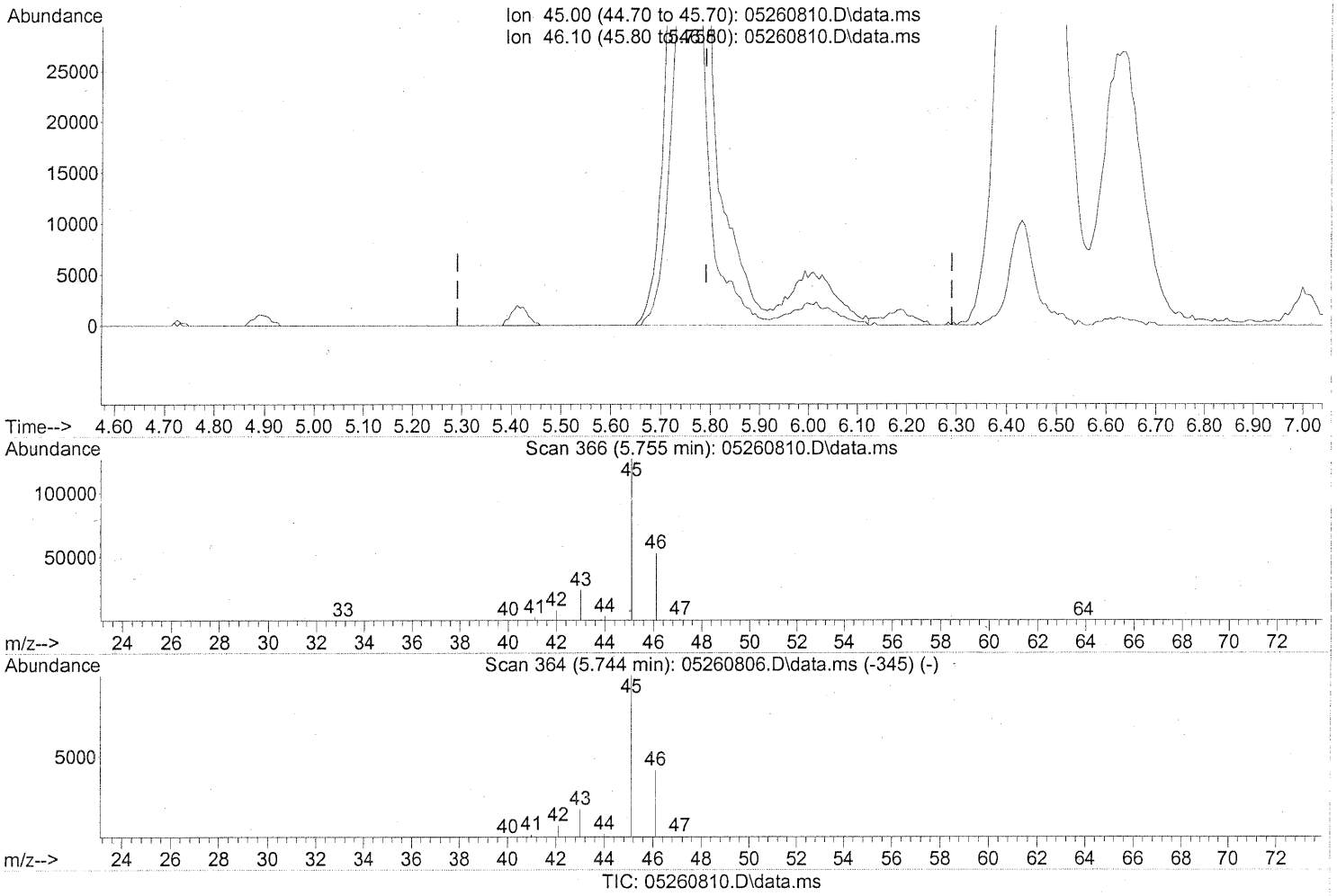
response 539235

split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.19
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.755min (-0.036) 26.81ng m

response 574235

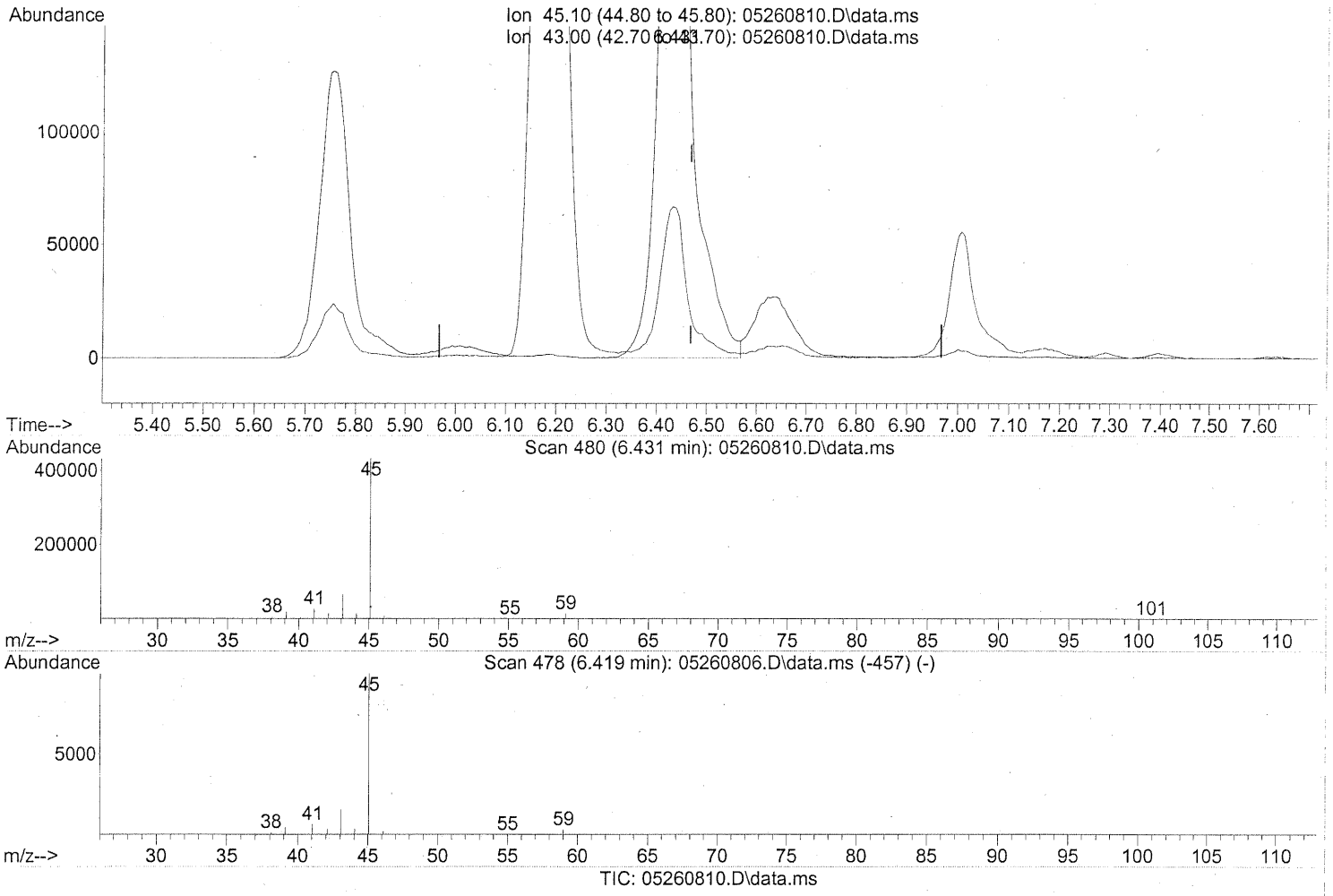
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	37.74
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
DH 5/29/08
Em 5/30/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.431min (-0.036) 24.12ng

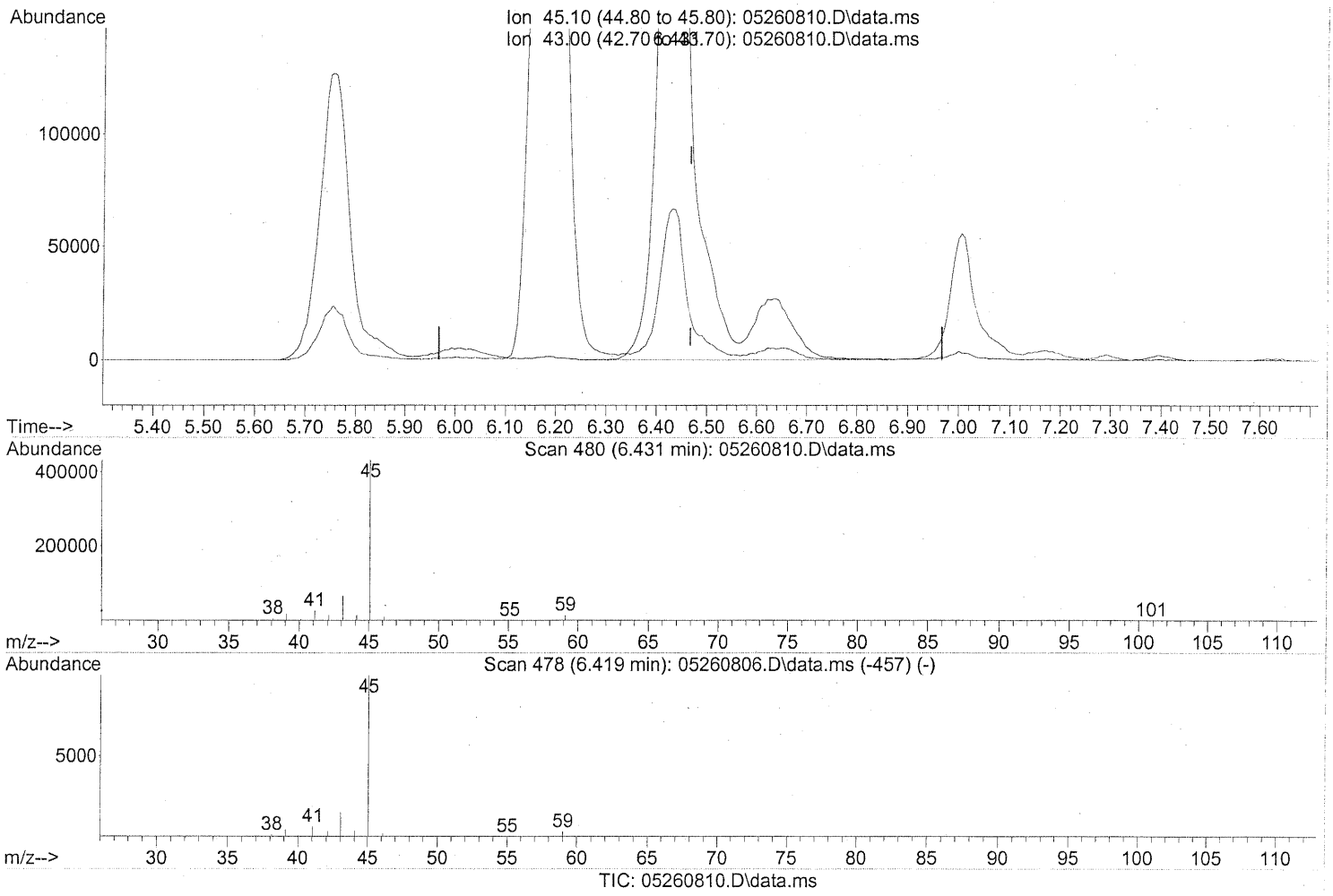
response 1548303

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.72
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05260810.D\data.ms

(15) Isopropanol (T)

6.431min (-0.036) 26.42ng m

response 1696236

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.27
0.00	0.00	0.00
0.00	0.00	0.00

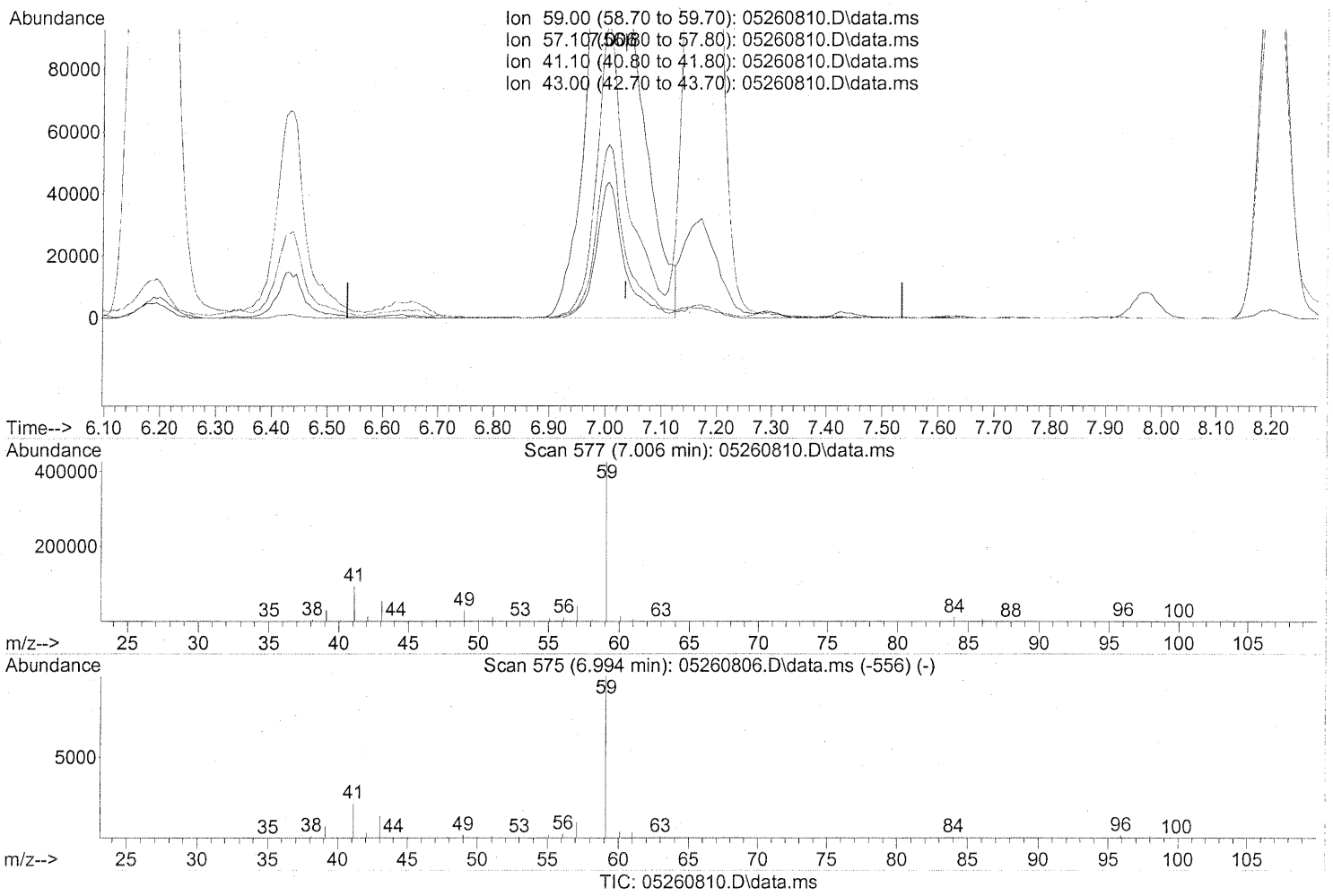
int. whole peaks

5/29/08

5/30/08

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

7.006min (-0.030) 25.79ng

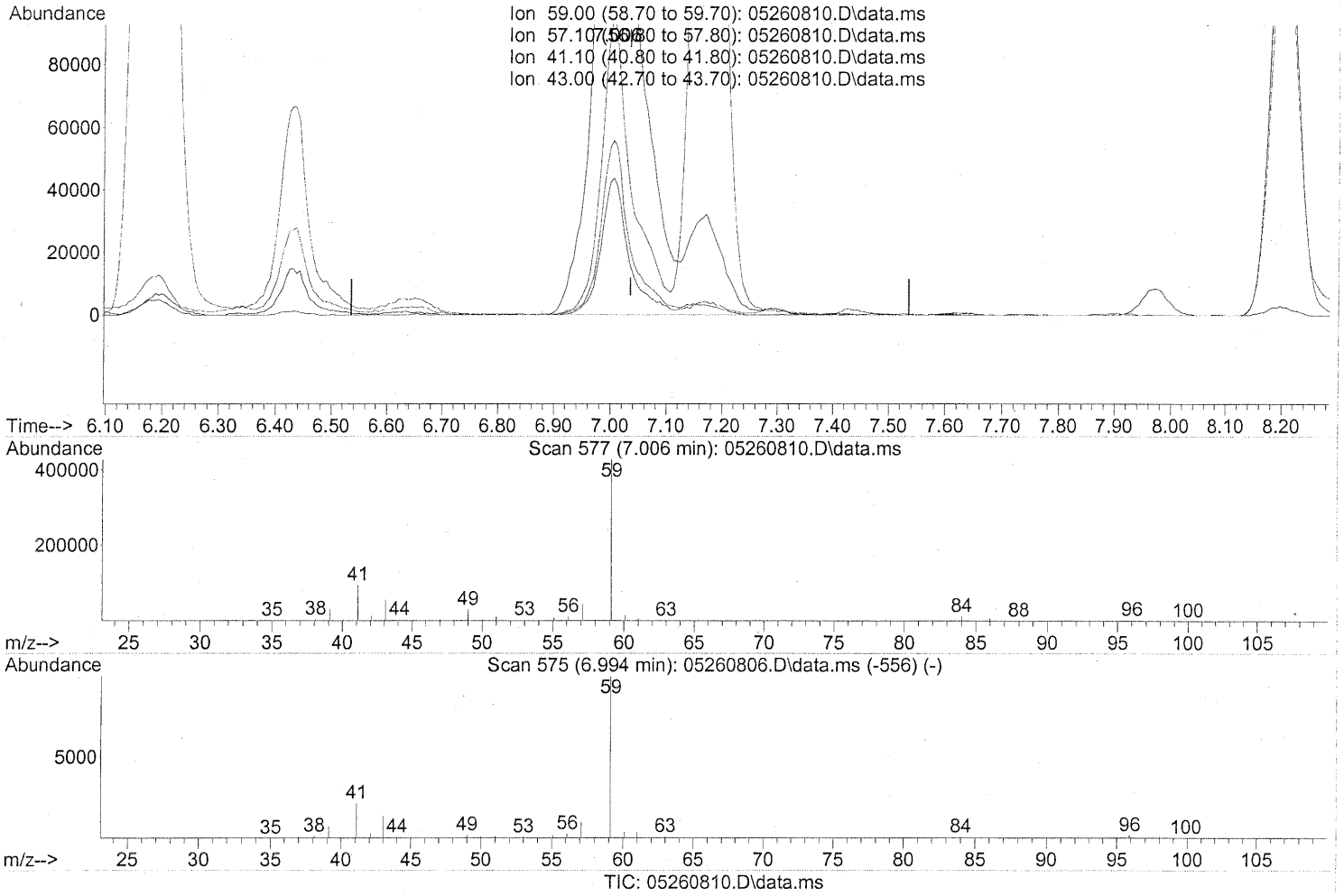
response 1543739

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.86
41.10	21.90	23.49
43.00	17.20	13.19

split peaks

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24 am
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 27 10:00:48 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

7.006min (-0.030) 28.20ng m

response 1687948

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.02
41.10	21.90	21.48
43.00	17.20	12.06

int. whole peaks
pdf 5/29/08
Em 5/30/08

833

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05260810.D**
Data File Path: **J:\MS16\DATA\2008_05\26**
Operator: **WA**
Date Acquired: **5/27/08 9:24**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05220809**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
2)	Propene	4.43	27.59	26.3	104.9	70	130	*
3)	**Dichlorodifluoromethane**	**4.53**	**25.05**	**25.5**	**98.2**	**70**	**130**	*
4)	**Chloromethane**	**4.73**	**25.59**	**24.5**	**104.4**	**70**	**130**	*
5)	**Freon 114**	**4.85**	**27.49**	**26.0**	**105.7**	**70**	**130**	*
6)	**Vinyl Chloride**	**4.98**	**25.08**	**24.8**	**101.1**	**70**	**130**	*
7)	**1,3-Butadiene**	**5.13**	**33.20**	**30.0**	**110.7**	**70**	**130**	*
8)	**Bromomethane**	**5.42**	**23.18**	**25.0**	**92.7**	**70**	**130**	*
9)	**Chloroethane**	**5.59**	**25.87**	**25.0**	**103.5**	**70**	**130**	*
10)	**Ethanol**	**5.76**	**26.81**	**23.8**	**112.6**	**70**	**130**	*
11)	**Acetonitrile**	**5.95**	**24.75**	**25.3**	**97.8**	**70**	**130**	*
12)	**Acrolein**	**6.05**	**28.17**	**24.8**	**113.6**	**70**	**130**	*
13)	**Acetone**	**6.18**	**28.05**	**26.8**	**104.7**	**70**	**130**	*
14)	**Trichlorofluoromethane**	**6.34**	**27.58**	**26.3**	**104.9**	**70**	**130**	*
15)	**Isopropanol**	**6.43**	**26.42**	**25.8**	**102.4**	**70**	**130**	*
16)	**Acrylonitrile**	**6.63**	**28.35**	**25.5**	**111.2**	**70**	**130**	*
17)	**1,1-Dichloroethene**	**6.95**	**30.51**	**27.8**	**109.7**	**70**	**130**	*
18)	tert-Butanol	7.01	28.20	25.8	109.3	70	130	*
19)	**Methylene Chloride**	**7.06**	**29.20**	**27.8**	**105.0**	**70**	**130**	*
20)	**Allyl Chloride**	**7.17**	**30.74**	**26.8**	**114.7**	**70**	**130**	*
21)	**Trichlorotrifluoroethane**	**7.30**	**29.35**	**27.8**	**105.6**	**70**	**130**	*
22)	**Carbon Disulfide**	**7.40**	**25.44**	**25.0**	**101.8**	**70**	**130**	*
23)	**trans-1,2-Dichloroethene**	**7.97**	**28.74**	**26.5**	**108.5**	**70**	**130**	*
24)	**1,1-Dichloroethane**	**8.19**	**29.44**	**26.8**	**109.9**	**70**	**130**	*
25)	**Methyl tert-Butyl Ether**	**8.20**	**29.12**	**26.8**	**108.7**	**70**	**130**	*
26)	**Vinyl Acetate**	**8.27**	**31.95**	**25.3**	**126.3**	**70**	**130**	*
27)	**2-Butanone**	**8.55**	**29.37**	**27.0**	**108.8**	**70**	**130**	*
28)	**cis-1,2-Dichloroethene**	**9.04**	**28.99**	**27.0**	**107.4**	**70**	**130**	*
29)	Diisopropyl Ether	9.20	28.83	26.3	109.6	70	130	*
30)	Ethyl Acetate	9.19	31.98	29.3	109.1	70	130	*
31)	**n-Hexane**	**9.24**	**28.23**	**27.0**	**104.5**	**70**	**130**	*
32)	**Chloroform**	**9.36**	**33.39**	**29.8**	**112.0**	**70**	**130**	*
34)	Tetrahydrofuran	9.78	29.93	26.8	111.7	70	130	*
35)	Ethyl tert-Butyl Ether	9.80	28.73	26.0	110.5	70	130	*
36)	**1,2-Dichloroethane**	**10.19**	**27.97**	**26.3**	**106.3**	**70**	**130**	*
38)	**1,1,1-Trichloroethane**	**10.50**	**28.29**	**26.8**	**105.6**	**70**	**130**	*
39)	Isopropyl Acetate	10.78	28.71	25.5	112.6	70	130	*

5/29/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05260810.D**
Data File Path: **J:\MS16\DATA\2008_05\26**
Operator: **WA**
Date Acquired: **5/27/08 9:24**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05220809**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
40)	1-Butanol	10.80	25.55	24.8	103.0	70	130	*
41)	**Benzene**	**11.02**	**26.49**	**27.0**	**98.1**	**70**	**130**	*
42)	**Carbon Tetrachloride**	**11.19**	**28.42**	**26.0**	**109.3**	**70**	**130**	*
43)	Cyclohexane	11.34	26.77	26.8	99.9	70	130	*
44)	**tert-Amyl Methyl Ether**	**11.64**	**28.89**	**26.0**	**111.1**	**70**	**130**	*
45)	**1,2-Dichloropropane**	**11.95**	**28.42**	**26.5**	**107.2**	**70**	**130**	*
46)	**Bromodichloromethane**	**12.15**	**30.63**	**27.8**	**110.2**	**70**	**130**	*
47)	**Trichloroethene**	**12.21**	**29.43**	**27.3**	**107.8**	**70**	**130**	*
48)	**1,4-Dioxane**	**12.16**	**30.76**	**27.5**	**111.9**	**70**	**130**	*
49)	Isooctane	12.26	28.16	26.3	107.1	70	130	*
50)	Methyl Methacrylate	12.35	30.54	25.8	118.4	70	130	*
51)	n-Heptane	12.52	29.14	26.8	108.7	70	130	*
52)	**cis-1,3-Dichloropropene**	**13.17**	**28.17**	**25.0**	**112.7**	**70**	**130**	*
53)	**4-Methyl-2-pentanone**	**13.19**	**28.02**	**27.5**	**101.9**	**70**	**130**	*
54)	**trans-1,3-Dichloropropene**	**13.77**	**31.27**	**28.0**	**111.7**	**70**	**130**	*
55)	**1,1,2-Trichloroethane**	**14.00**	**28.84**	**26.3**	**109.7**	**70**	**130**	*
58)	**Toluene**	**14.35**	**27.55**	**26.5**	**104.0**	**70**	**130**	*
59)	**2-Hexanone**	**14.59**	**25.15**	**26.3**	**95.6**	**70**	**130**	*
60)	**Dibromochloromethane**	**14.85**	**29.80**	**27.0**	**110.4**	**70**	**130**	*
61)	**1,2-Dibromoethane**	**15.15**	**28.20**	**26.3**	**107.2**	**70**	**130**	*
62)	**Butyl Acetate**	**15.31**	**27.92**	**26.3**	**106.2**	**70**	**130**	*
63)	n-Octane	15.48	27.99	26.0	107.7	70	130	*
64)	**Tetrachloroethene**	**15.70**	**27.94**	**26.0**	**107.5**	**70**	**130**	*
65)	**Chlorobenzene**	**16.50**	**27.87**	**26.5**	**105.2**	**70**	**130**	*
66)	**Ethylbenzene**	**16.94**	**27.77**	**26.3**	**105.6**	**70**	**130**	*
67)	**m- & p-Xylene**	**17.16**	**65.75**	**62.5**	**105.2**	**70**	**130**	*
68)	**Bromoform**	**17.26**	**37.36**	**31.3**	**119.4**	**70**	**130**	*
69)	**Styrene**	**17.60**	**29.09**	**26.3**	**110.6**	**70**	**130**	*
70)	**o-Xylene**	**17.74**	**31.02**	**29.8**	**104.1**	**70**	**130**	*
71)	**n-Nonane**	**17.97**	**26.58**	**26.0**	**102.2**	**70**	**130**	*
72)	**1,1,2,2-Tetrachloroethane**	**17.70**	**31.47**	**29.8**	**105.6**	**70**	**130**	*
74)	**Cumene**	**18.45**	**29.00**	**27.0**	**107.4**	**70**	**130**	*
75)	**alpha-Pinene**	**18.93**	**28.88**	**26.3**	**109.8**	**70**	**130**	*
76)	n-Propylbenzene	19.07	28.04	26.3	106.6	70	130	*
77)	3-Ethyltoluene	19.19	26.73	25.5	104.8	70	130	*

5/29/08

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05260810.D**
Data File Path: **J:\MS16\DATA\2008_05\26**
Operator: **WA**
Date Acquired: **5/27/08 9:24**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05220809**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
78)	**4-Ethyltoluene**	**19.24**	**28.51**	**26.5**	**107.6**	**70**	**130**	*
79)	**1,3,5-Trimethylbenzene**	**19.33**	**27.62**	**26.0**	**106.2**	**70**	**130**	*
80)	alpha-Methylstyrene	19.52	28.33	25.5	111.1	70	130	*
81)	2-Ethyltoluene	19.57	26.67	24.8	107.5	70	130	*
82)	**1,2,4-Trimethylbenzene**	**19.83**	**27.51**	**26.0**	**105.8**	**70**	**130**	*
83)	n-Decane	19.93	28.17	26.3	107.1	70	130	*
84)	**Benzyl Chloride**	**19.99**	**29.66**	**25.8**	**115.0**	**70**	**130**	*
85)	**1,3-Dichlorobenzene**	**20.02**	**27.00**	**25.5**	**105.9**	**70**	**130**	*
86)	**1,4-Dichlorobenzene**	**20.11**	**28.15**	**26.3**	**107.0**	**70**	**130**	*
87)	sec-Butylbenzene	20.16	28.55	26.8	106.5	70	130	*
88)	p-Isopropyltoluene	20.34	31.52	28.8	109.4	70	130	*
89)	1,2,3-Trimethylbenzene	20.35	30.03	28.5	105.4	70	130	*
90)	**1,2-Dichlorobenzene**	**20.52**	**27.18**	**25.8**	**105.4**	**70**	**130**	*
91)	**d-Limonene**	**20.52**	**28.68**	**26.0**	**110.3**	**70**	**130**	*
92)	**1,2-Dibromo-3-Chloropropane**	**21.04**	**29.41**	**25.8**	**114.0**	**70**	**130**	*
93)	n-Undecane	21.43	28.70	26.5	108.3	70	130	*
94)	**1,2,4-Trichlorobenzene**	**22.55**	**29.69**	**26.0**	**114.2**	**70**	**130**	*
95)	**Naphthalene**	**22.70**	**28.89**	**26.3**	**109.9**	**70**	**130**	*
96)	n-Dodecane	22.66	29.12	26.5	109.9	70	130	*
97)	**Hexachloro-1,3-butadiene**	**23.11**	**28.47**	**26.3**	**108.3**	**70**	**130**	*

Bold = 67 Compound List

5/29/08

Method Path : J:\MS16\METHODS\
Method File : S16052608.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Jun 04 14:29:57 2008
Response Via : Initial Calibration

Calibration Files
0.1 =05260802.D 0.5 =05260803.D 1.0 =05260804.D 5.0 =05260805.D
25 =05260806.D 50 =05260807.D 100 =05260808.D

		Compound	0.1	0.5	1.0	5.0	25	50	100	Avg	%RSD
1)	IR	Bromochloromethane (I	ISTD								
2)	S	1,2-Dichloroethane-	1.417	1.427	1.431	1.413	1.408	1.446	1.465	1.430	1.41
3)	IR	1,4-Difluorobenzene (	ISTD								
4)	I	Chlorobenzene-d5 (IS3	ISTD								
5)	S	Toluene-d8 (SS2)	2.647	2.610	2.596	2.564	2.537	2.557	2.531	2.577	1.64
6)	S	Bromofluorobenzene	0.838	0.834	0.839	0.860	0.871	0.879	0.876	0.857	2.28
7)		tert-Butylbenzene	3.538	3.792	3.335	3.057	2.743	2.713	2.612	3.113	14.62
8)		n-Butylbenzene	3.480	3.408	3.150	2.884	2.634	2.633	2.566	2.965	12.93

(#) = Out of Range

837

6/4/08

Method Path : J:\MS16\METHODS\
Method File : S16052608.M
Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
Last Update : Wed Jun 04 14:30:18 2008
Response Via : Initial Calibration

#	ID	Conc	ISTD Conc	Path\File
1	0.1	0	25	J:\MS16\DATA\2008_05\26\05260802.D
2	0.5	1	25	J:\MS16\DATA\2008_05\26\05260803.D
3	1.0	1	25	J:\MS16\DATA\2008_05\26\05260804.D
4	5.0	5	25	J:\MS16\DATA\2008_05\26\05260805.D
5	25	26	25	J:\MS16\DATA\2008_05\26\05260806.D
6	50	52	25	J:\MS16\DATA\2008_05\26\05260807.D
7	100	104	25	J:\MS16\DATA\2008_05\26\05260808.D

#	ID	Update Time	Quant Time	Acquisition Time
1	0.1	Jun 04 14:28 2008	Jun 04 13:44 2008	26 May 2008 16:36
2	0.5	Jun 04 14:28 2008	Jun 04 13:44 2008	26 May 2008 17:14
3	1.0	Jun 04 14:29 2008	Jun 04 13:44 2008	26 May 2008 17:51
4	5.0	Jun 04 14:29 2008	Jun 04 13:44 2008	26 May 2008 18:36
5	25	Jun 04 14:29 2008	Jun 04 13:44 2008	26 May 2008 19:14
6	50	Jun 04 14:29 2008	Jun 04 13:45 2008	26 May 2008 19:52
7	100	Jun 04 14:29 2008	Jun 04 13:45 2008	26 May 2008 20:30

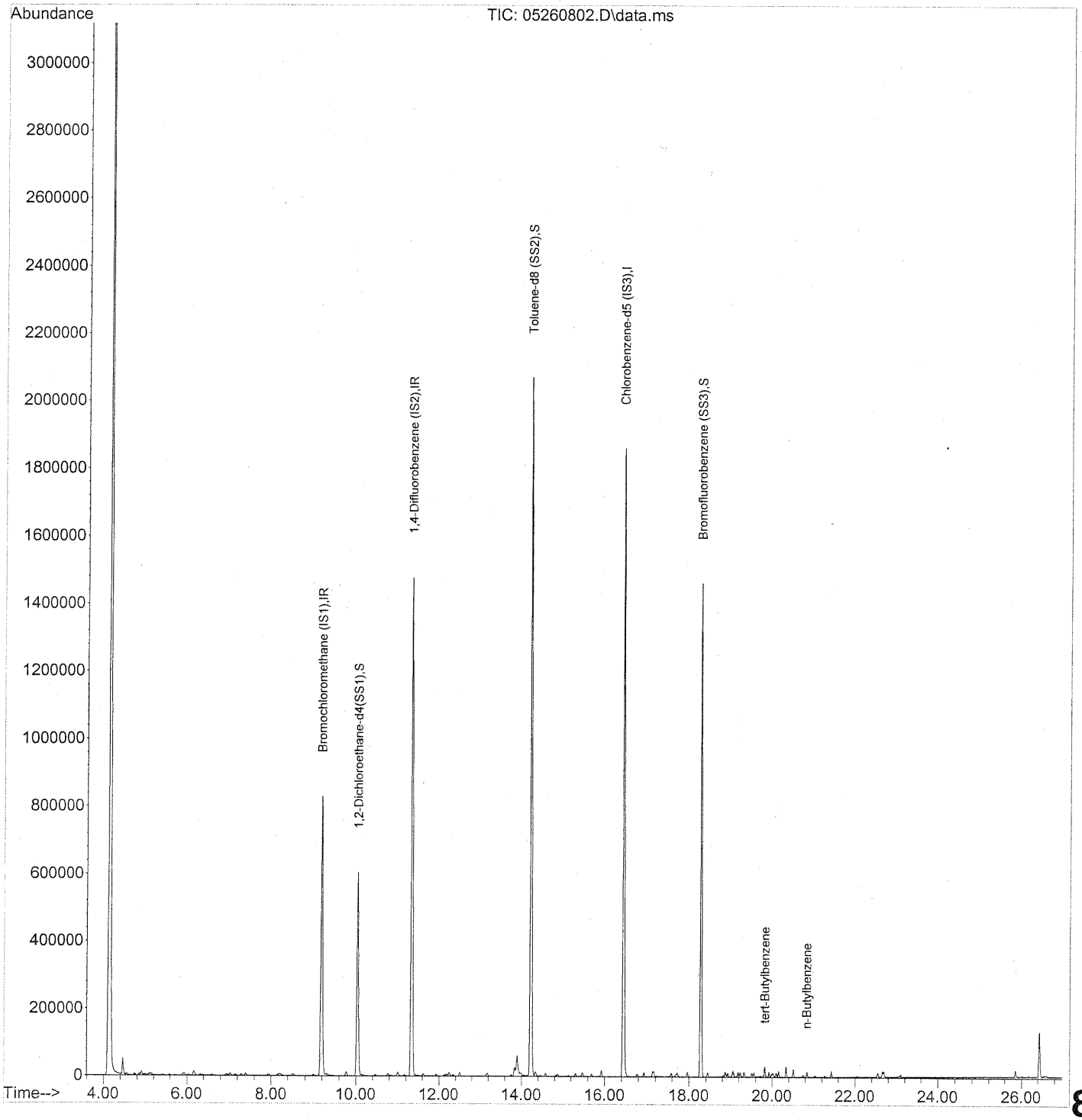
S16052608.M Wed Jun 04 14:31:40 2008

6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 16:36
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 04 13:44:47 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260802.D
Acq On : 26 May 2008 16:36
Operator : WA
Sample : 0.1ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210811
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 04 13:44:47 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

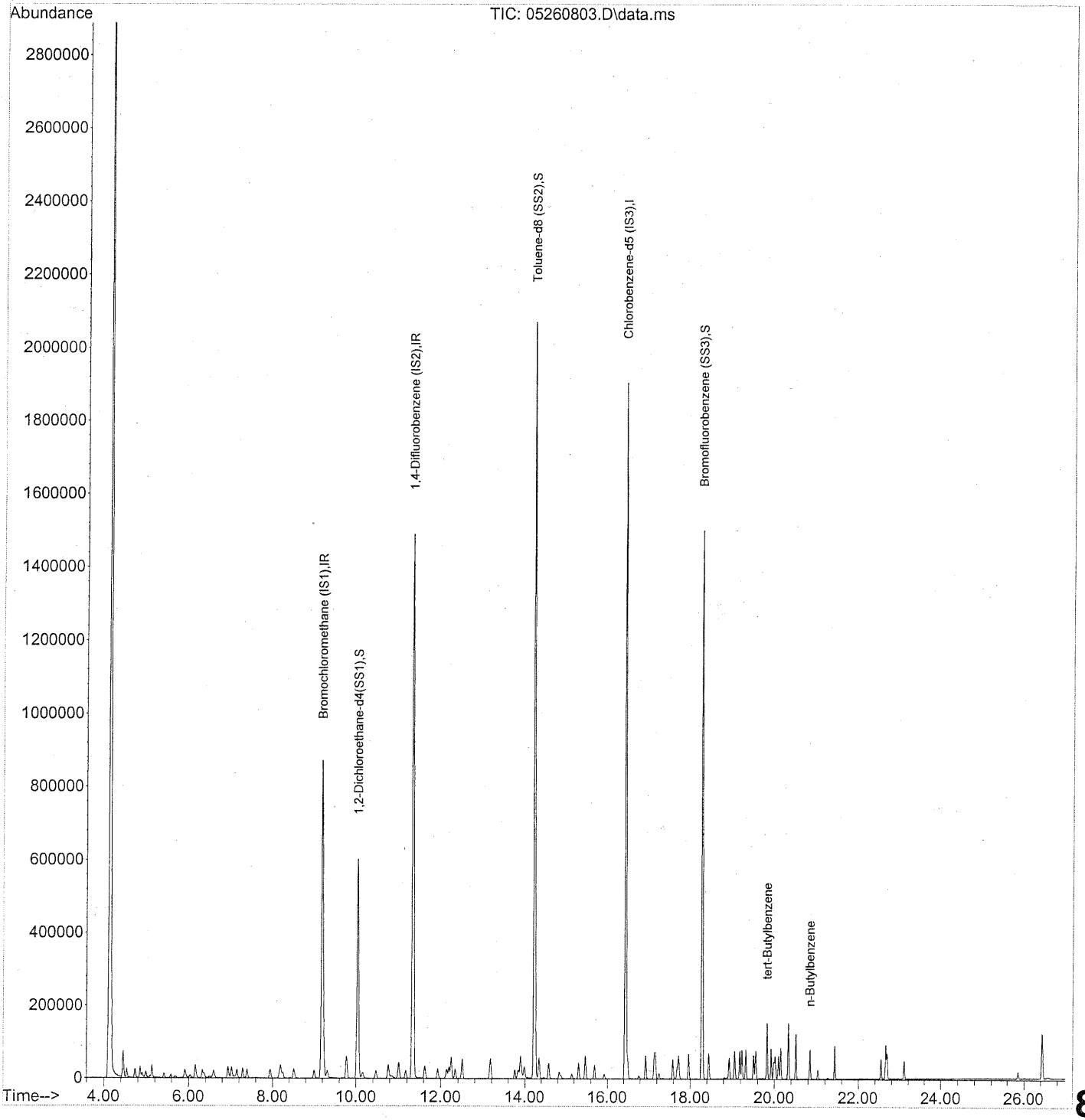
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	400141	25.000	ng		-0.07
3) 1,4-Difluorobenzene (IS2)	11.34	114	1673816	25.000	ng		-0.04
4) Chlorobenzene-d5 (IS3)	16.45	82	627739	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.04	65	566923	20.091	ng		-0.05
Spiked Amount 25.000			Recovery = 80.36%				
5) Toluene-d8 (SS2)	14.22	98	1661708	26.885	ng		-0.02
Spiked Amount 25.000			Recovery = 107.52%				
6) Bromofluorobenzene (SS3)	18.28	174	526226	32.713	ng		-0.01
Spiked Amount 25.000			Recovery = 130.84%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	9239	0.123	ng		98
8) n-Butylbenzene	20.84	91	9351	0.119	ng	#	96

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 17:14
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:49 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260803.D
Acq On : 26 May 2008 17:14
Operator : WA
Sample : 0.5ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:49 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	401927	25.000	ng		-0.06
3) 1,4-Difluorobenzene (IS2)	11.34	114	1681603	25.000	ng		-0.04
4) Chlorobenzene-d5 (IS3)	16.45	82	646123	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.04	65	573396	20.231	ng		-0.05
Spiked Amount 25.000			Recovery = 80.92%				
5) Toluene-d8 (SS2)	14.23	98	1686339	26.507	ng		-0.02
Spiked Amount 25.000			Recovery = 106.04%				
6) Bromofluorobenzene (SS3)	18.28	174	538778	32.540	ng		-0.01
Spiked Amount 25.000			Recovery = 130.16%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	50963	0.658	ng		97
8) n-Butylbenzene	20.84	91	47129	0.581	ng	#	93

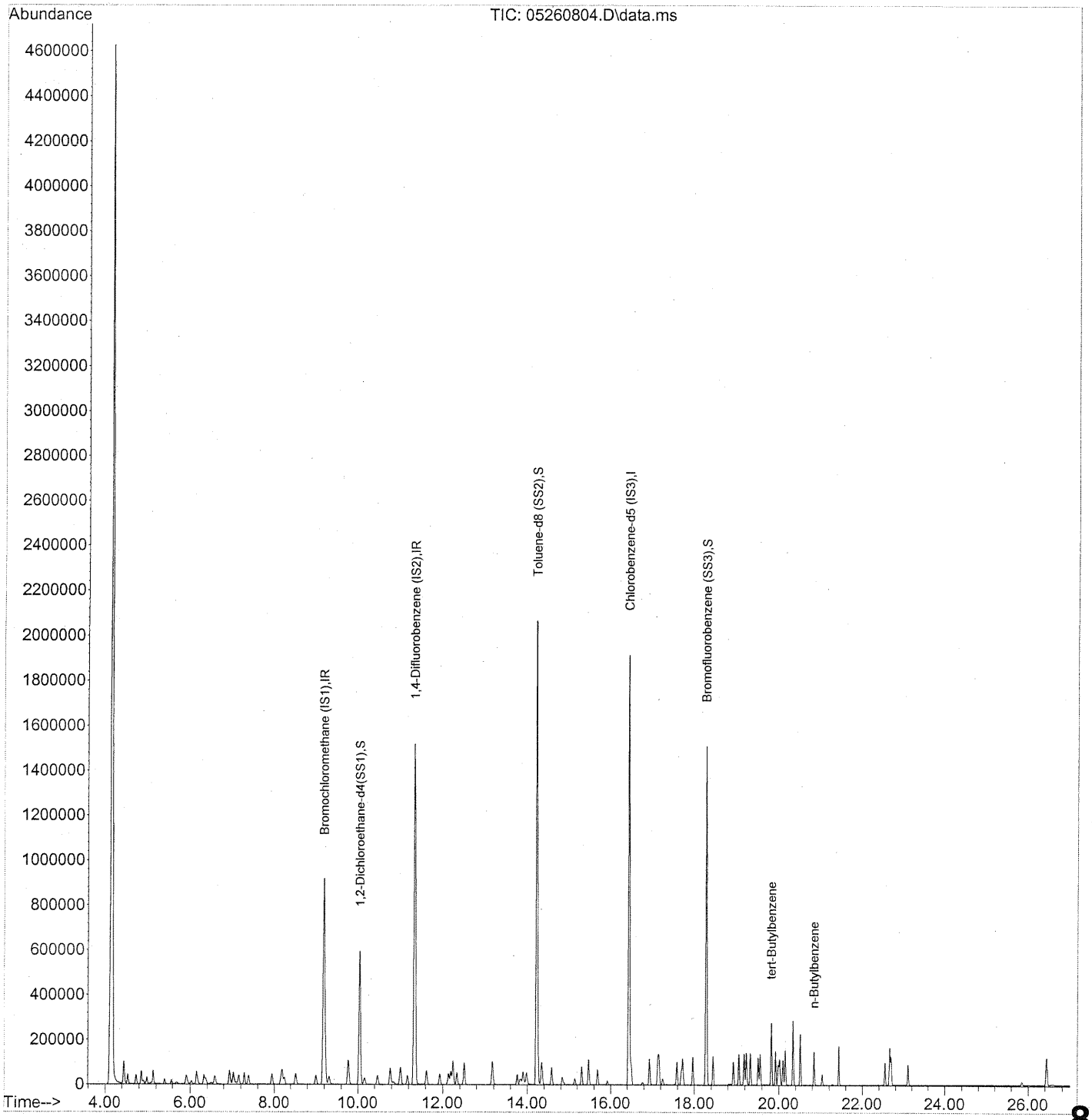
(#) = qualifier out of range (m) = manual integration (+) = signals summed

DT 6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 17:51
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:51 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260804.D
Acq On : 26 May 2008 17:51
Operator : WA
Sample : 1.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

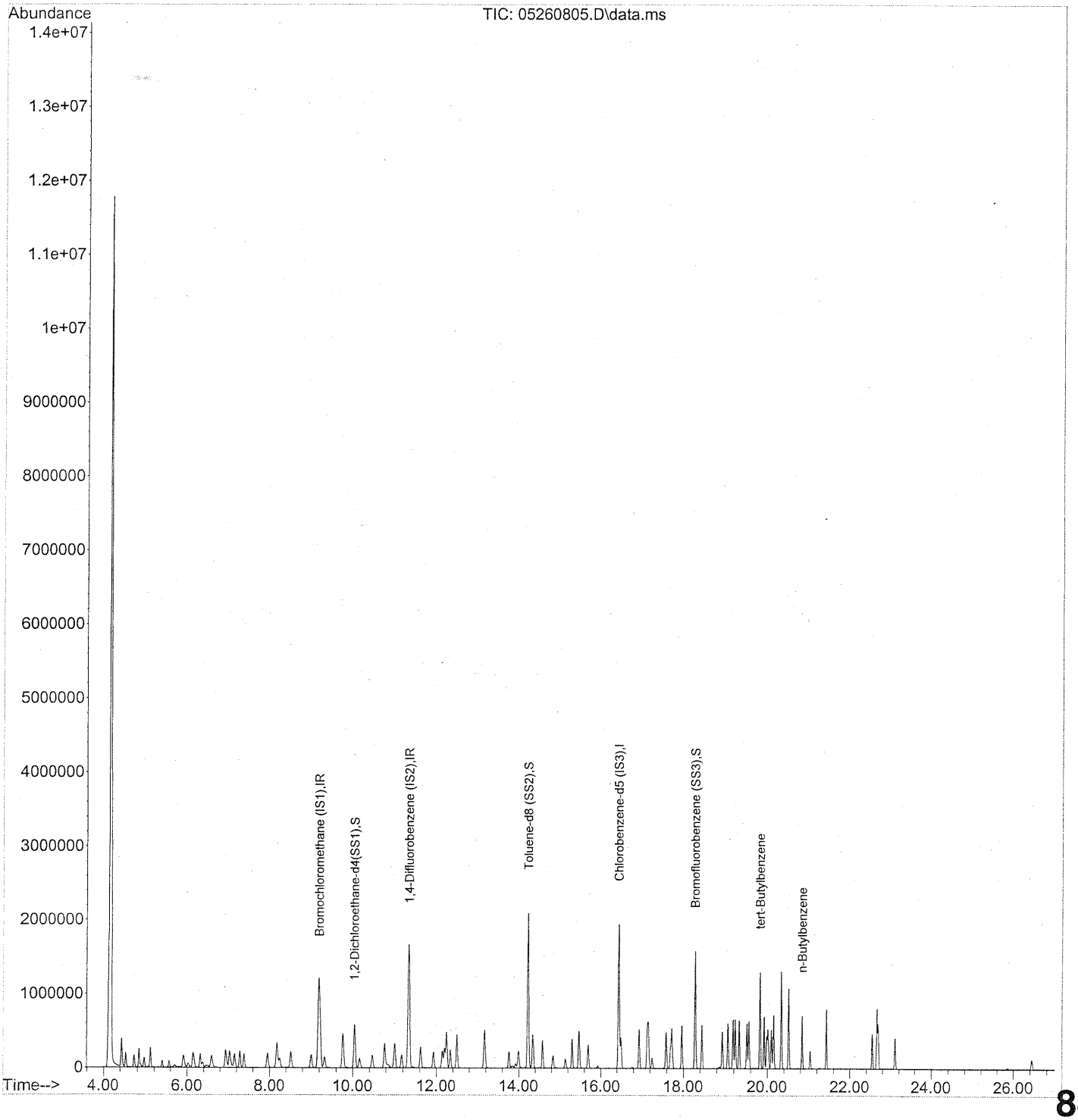
Quant Time: Jun 04 13:44:51 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.19	130	400525	25.000	ng		-0.06
3) 1,4-Difluorobenzene (IS2)	11.34	114	1674056	25.000	ng		-0.04
4) Chlorobenzene-d5 (IS3)	16.45	82	647047	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.04	65	573073	20.290	ng		-0.05
Spiked Amount 25.000			Recovery = 81.16%				
5) Toluene-d8 (SS2)	14.22	98	1679917	26.368	ng		-0.02
Spiked Amount 25.000			Recovery = 105.48%				
6) Bromofluorobenzene (SS3)	18.28	174	543013	32.749	ng		-0.01
Spiked Amount 25.000			Recovery = 131.00%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	89775	1.158	ng		95
8) n-Butylbenzene	20.84	91	87248	1.075	ng	#	95

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 18:36
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:54 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260805.D
Acq On : 26 May 2008 18:36
Operator : WA
Sample : 5.0ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:54 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

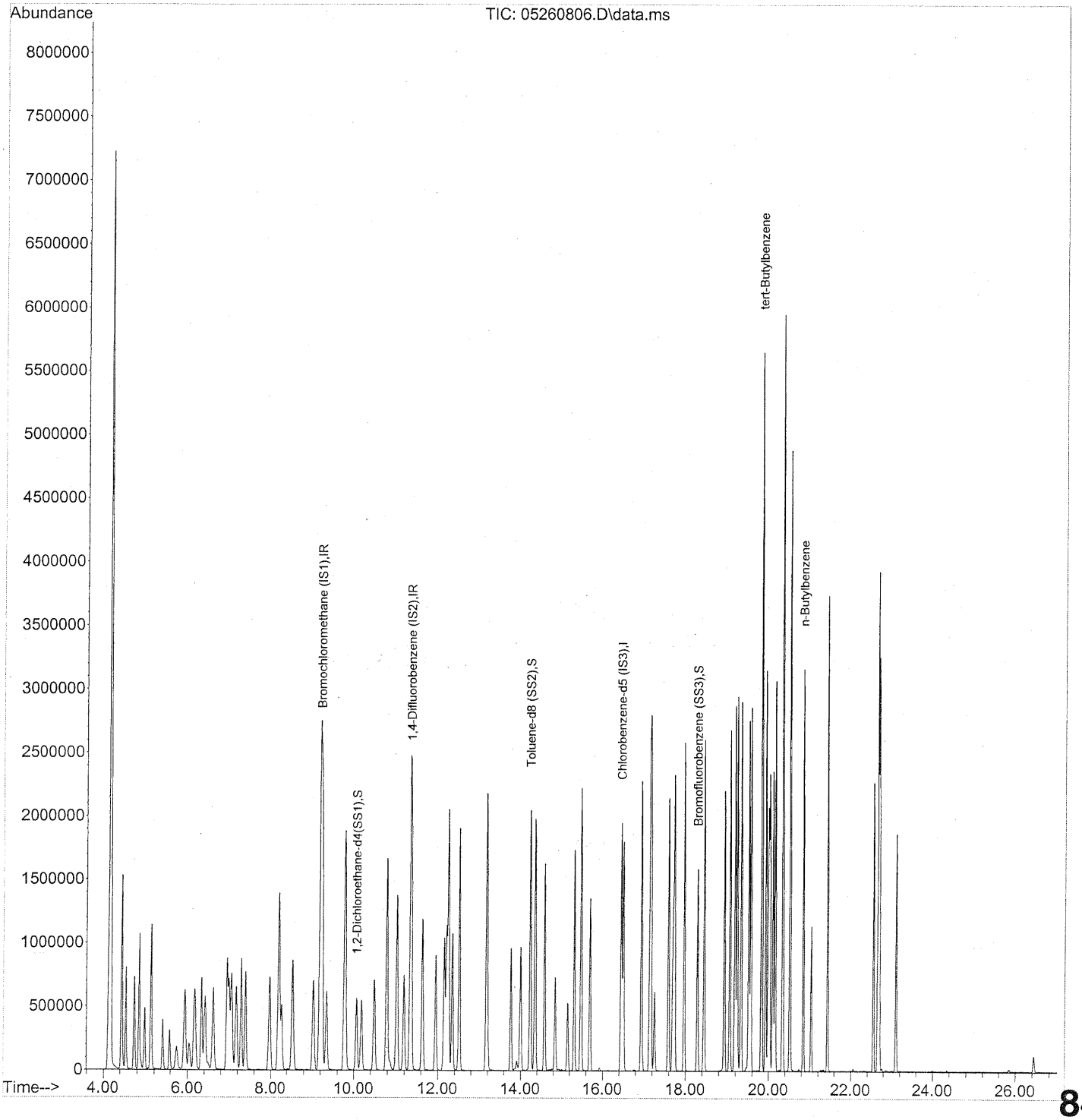
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	398220	25.000	ng		-0.05
3) 1,4-Difluorobenzene (IS2)	11.35	114	1672349	25.000	ng		-0.03
4) Chlorobenzene-d5 (IS3)	16.45	82	656314	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.05	65	562574	20.033	ng		-0.05
Spiked Amount 25.000			Recovery = 80.12%				
5) Toluene-d8 (SS2)	14.23	98	1682540	26.037	ng		-0.02
Spiked Amount 25.000			Recovery = 104.16%				
6) Bromofluorobenzene (SS3)	18.28	174	564532	33.566	ng		-0.01
Spiked Amount 25.000			Recovery = 134.28%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	417267	5.308	ng		96
8) n-Butylbenzene	20.84	91	404994	4.919	ng	#	94

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

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 19:14
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:44:57 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260806.D
Acq On : 26 May 2008 19:14
Operator : WA
Sample : 25ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

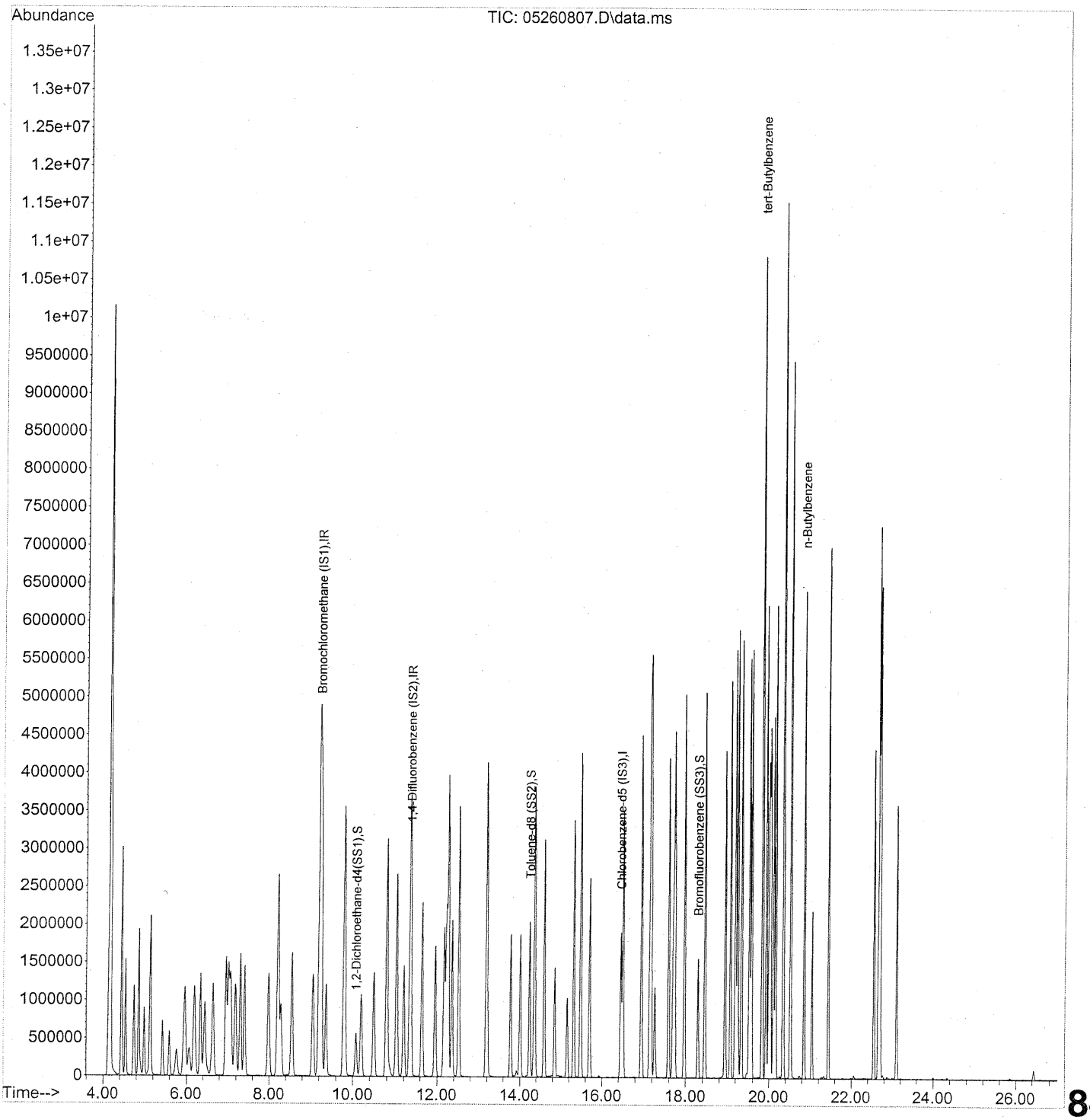
Quant Time: Jun 04 13:44:57 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	395887	25.000	ng		-0.03
3) 1,4-Difluorobenzene (IS2)	11.36	114	1634987	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	654511	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.06	65	557560	19.972	ng		-0.03
Spiked Amount 25.000			Recovery = 79.88%				
5) Toluene-d8 (SS2)	14.24	98	1660168	25.761	ng		-0.01
Spiked Amount 25.000			Recovery = 103.04%				
6) Bromofluorobenzene (SS3)	18.29	174	570371	34.007	ng		0.00
Spiked Amount 25.000			Recovery = 136.04%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.84	119	1867093	23.815	ng		97
8) n-Butylbenzene	20.84	91	1848334	22.511	ng	#	93

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 19:52
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:45:00 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260807.D
Acq On : 26 May 2008 19:52
Operator : WA
Sample : 50ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

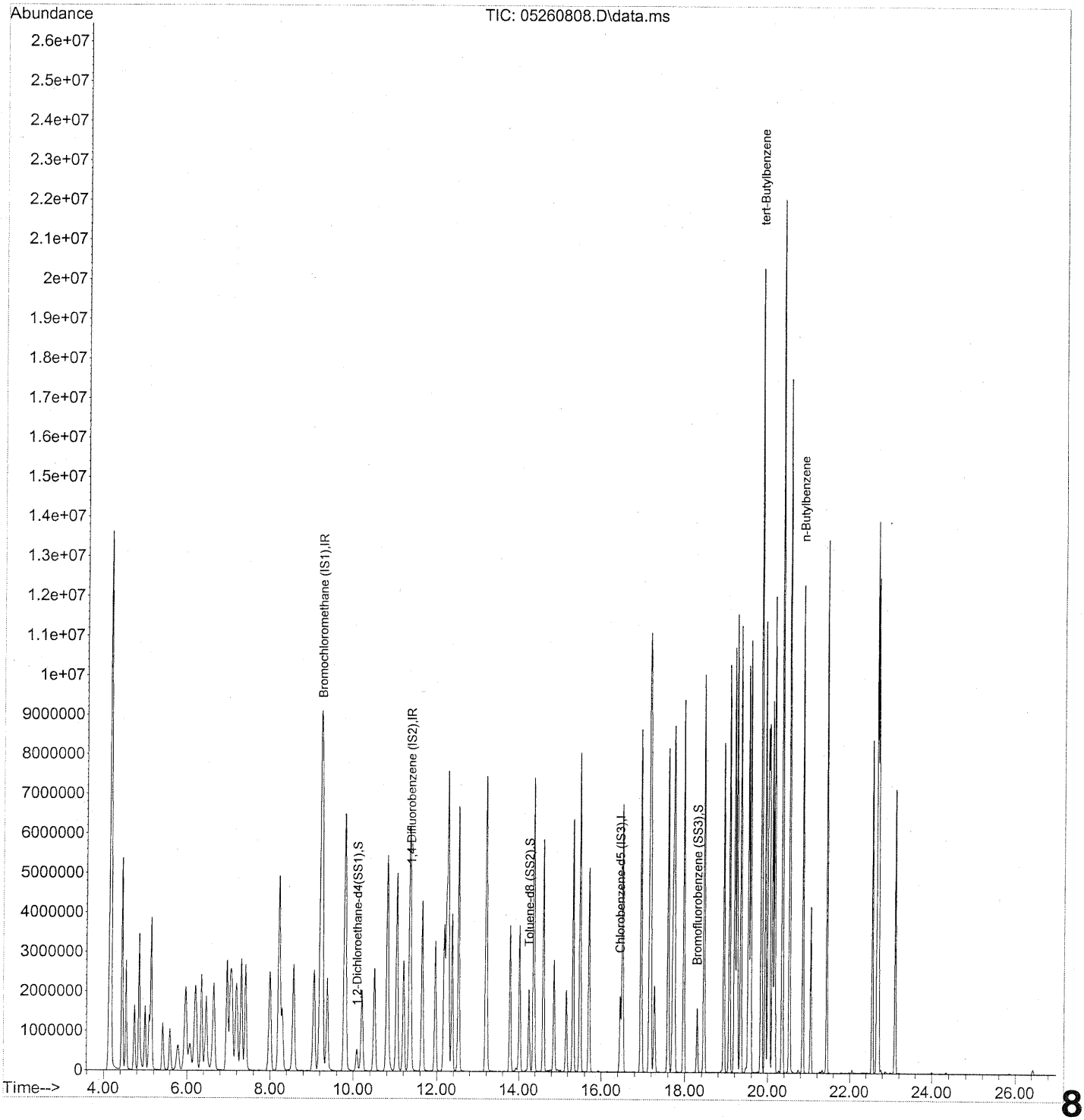
Quant Time: Jun 04 13:45:00 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	388471	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.37	114	1647237	25.000	ng		0.00
4) Chlorobenzene-d5 (IS3)	16.46	82	658280	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.08	65	561887	20.511	ng		-0.02
Spiked Amount 25.000			Recovery = 82.04%				
5) Toluene-d8 (SS2)	14.24	98	1683278	25.970	ng		0.00
Spiked Amount 25.000			Recovery = 103.88%				
6) Bromofluorobenzene (SS3)	18.29	174	578716	34.307	ng		0.00
Spiked Amount 25.000			Recovery = 137.24%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.84	119	3714559	47.109	ng		98
8) n-Butylbenzene	20.85	91	3709024	44.914	ng	#	94

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 20:30
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 13:45:03 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260808.D
Acq On : 26 May 2008 20:30
Operator : WA
Sample : 100ng TO-15 ICAL STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

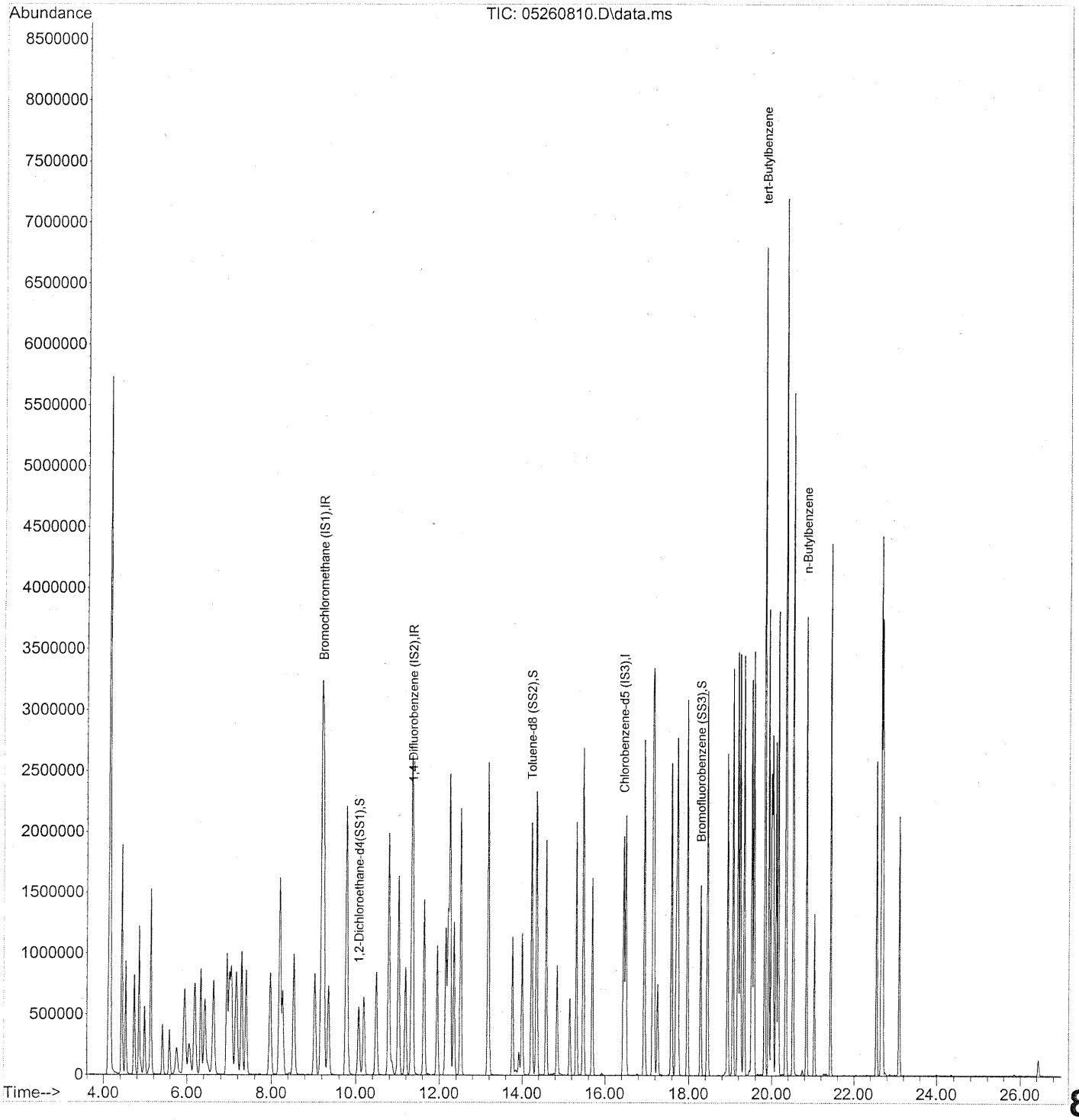
Quant Time: Jun 04 13:45:03 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed May 21 09:23:34 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.25	130	386095	25.000	ng		0.00
3) 1,4-Difluorobenzene (IS2)	11.38	114	1653539	25.000	ng		0.00
4) Chlorobenzene-d5 (IS3)	16.46	82	678453	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.09	65	565549	20.772	ng		0.00
Spiked Amount 25.000			Recovery =	83.08%			
5) Toluene-d8 (SS2)	14.25	98	1717295	25.707	ng		0.00
Spiked Amount 25.000			Recovery =	102.84%			
6) Bromofluorobenzene (SS3)	18.29	174	594590	34.200	ng		0.00
Spiked Amount 25.000			Recovery =	136.80%			
Target Compounds							Qvalue
7) tert-Butylbenzene	19.85	119	7371911	90.712	ng		99
8) n-Butylbenzene	20.85	91	7450179	87.534	ng	#	95

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

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:30:59 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260810.D
Acq On : 27 May 2008 9:24
Operator : WA
Sample : 25ng TO-15 ICV STD
Misc : S20-05120801/S20-05220809
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 04 14:30:59 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.23	130	407859	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.37	114	1689589	25.000	ng		-0.01
4) Chlorobenzene-d5 (IS3)	16.45	82	667061	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.07	65	569355	24.413	ng		-0.02
Spiked Amount 25.000			Recovery = 97.64%				
5) Toluene-d8 (SS2)	14.24	98	1713292	24.913	ng		-0.01
Spiked Amount 25.000			Recovery = 99.64%				
6) Bromofluorobenzene (SS3)	18.29	174	581376	25.427	ng		0.00
Spiked Amount 25.000			Recovery = 101.72%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	2292354	27.600	ng		97
8) n-Butylbenzene	20.84	91	2237602	28.282	ng	#	94

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

INITIAL CALIBRATION VERIFICATION CHECK SHEET

Data File Name: **05260810.D**
Data File Path: **J:\MS16\DATA\2008_05\26**
Operator: **WA**
Date Acquired: **5/27/08 9:24**
Acq. Method File: **TO15.M**
Sample Name: **25ng TO-15 ICV STD**
Misc Info: **S20-05120801/S20-05220809**
Instrument Name: **GCMS-16**

#	Name Compound	Ret. Time	Amt. (ng)	Spike Amt.(ng)	% Rec.	Lower Limit	Upper Limit	* OR Fail
7)	tert-Butylbenzene	19.83	27.60	26.3	104.9	70	130	*
8)	n-Butylbenzene	20.84	28.28	26.8	105.5	70	130	*

6/4/08

CONTINUING CALIBRATION STANDARDS

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	105	-0.03
2	T	Propene	1.935	1.615	16.5	102	-0.01
3	T	Dichlorodifluoromethane	2.341	1.889	19.3	101	-0.01
4	T	Chloromethane	2.941	2.481	15.6	100	-0.02
5	T	Freon 114	1.308	1.113	14.9	102	-0.02
6	T	Vinyl Chloride	1.873	1.517	19.0	101	-0.02
7	T	1,3-Butadiene	1.707	1.481	13.2	102	-0.02
8	T	Bromomethane	0.965	0.810	16.1	101	-0.02
9	T	Chloroethane	0.968	0.801	17.3	104	-0.02
10	T	Ethanol	1.313	1.169	11.0	102	-0.05
11	T	Acetonitrile	3.785	3.232	14.6	102	-0.04
12	T	Acrolein	0.947	0.863	8.9	106	-0.03
13	T	Acetone	1.306	1.071	18.0	106	-0.04
14	T	Trichlorofluoromethane	2.191	1.877	14.3	103	-0.02
15	T	Isopropanol	3.935	3.322	15.6	99	-0.05
16	T	Acrylonitrile	2.374	2.146	9.6	103	-0.04
17	T	1,1-Dichloroethene	1.023	0.905	11.5	105	-0.02
18	T	tert-Butanol	3.669	3.330	9.2	104	-0.04
19	T	Methylene Chloride	1.008	0.869	13.8	104	-0.03
20	T	Allyl Chloride	2.322	2.102	9.5	104	-0.02
21	T	Trichlorotrifluoroethane	1.065	0.918	13.8	104	-0.02
22	T	Carbon Disulfide	4.053	3.623	10.6	104	-0.02
23	T	trans-1,2-Dichloroethene	2.014	1.750	13.1	103	-0.02
24	T	1,1-Dichloroethane	2.139	1.893	11.5	104	-0.03
25	T	Methyl tert-Butyl Ether	3.123	2.716	13.0	105	-0.02
26	T	Vinyl Acetate	0.214	0.207	3.3	114	-0.02
27	T	2-Butanone	0.683	0.603	11.7	105	-0.03
28	T	cis-1,2-Dichloroethene	1.852	1.616	12.7	104	-0.03
29	T	Diisopropyl Ether	0.900	0.809	10.1	105	-0.03
30	T	Ethyl Acetate	0.477	0.419	12.2	101	-0.03
31	T	n-Hexane	2.848	2.453	13.9	104	-0.02
32	T	Chloroform	1.475	1.280	13.2	104	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.430	1.397	2.3	104	-0.03
34	T	Tetrahydrofuran	0.642	0.588	8.4	104	-0.02
35	T	Ethyl tert-Butyl Ether	1.317	1.177	10.6	104	-0.02
36	T	1,2-Dichloroethane	1.691	1.459	13.7	103	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	-0.02
38	T	1,1,1-Trichloroethane	0.426	0.367	13.8	106	-0.02

5/28/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	0.211	0.192	9.0	104	-0.02
40	T	1-Butanol	0.411	0.360	12.4	104	-0.04
41	T	Benzene	1.054	0.840	20.3	105	-0.02
42	T	Carbon Tetrachloride	0.432	0.380	12.0	104	-0.02
43	T	Cyclohexane	0.412	0.333	19.2	105	-0.02
44	T	tert-Amyl Methyl Ether	0.702	0.631	10.1	106	-0.02
45	T	1,2-Dichloropropane	0.311	0.269	13.5	104	-0.02
46	T	Bromodichloromethane	0.310	0.275	11.3	104	-0.02
47	T	Trichloroethene	0.328	0.288	12.2	105	-0.02
48	T	1,4-Dioxane	0.197	0.178	9.6	105	-0.02
49	T	Isooctane	1.685	1.466	13.0	103	-0.02
50	T	Methyl Methacrylate	0.113	0.107	5.3	105	-0.02
51	T	n-Heptane	0.252	0.223	11.5	105	-0.02
52	T	cis-1,3-Dichloropropene	0.392	0.356	9.2	104	-0.01
53	T	4-Methyl-2-pentanone	0.366	0.326	10.9	103	-0.02
54	T	trans-1,3-Dichloropropene	0.362	0.328	9.4	104	-0.02
55	T	1,1,2-Trichloroethane	0.256	0.227	11.3	105	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
57	S	Toluene-d8 (SS2)	2.577	2.546	1.2	106	-0.02
58	T	Toluene	2.924	2.445	16.4	105	-0.01
59	T	2-Hexanone	2.761	2.254	18.4	100	-0.02
60	T	Dibromochloromethane	0.863	0.762	11.7	105	-0.02
61	T	1,2-Dibromoethane	0.803	0.695	13.4	104	-0.02
62	T	Butyl Acetate	2.776	2.392	13.8	100	-0.02
63	T	n-Octane	0.884	0.774	12.4	104	-0.01
64	T	Tetrachloroethene	0.865	0.743	14.1	106	-0.01
65	T	Chlorobenzene	2.083	1.781	14.5	105	-0.01
66	T	Ethylbenzene	3.323	2.876	13.5	105	-0.01
67	T	m- & p-Xylene	2.202	1.877	14.8	105	-0.02
68	T	Bromoform	0.501	0.464	7.4	104	-0.01
69	T	Styrene	2.127	1.911	10.2	104	-0.02
70	T	o-Xylene	2.357	2.023	14.2	105	-0.02
71	T	n-Nonane	2.326	1.957	15.9	101	-0.01
72	T	1,1,2,2-Tetrachloroethane	0.976	0.838	14.1	104	-0.02
73	S	Bromofluorobenzene (SS3)	0.857	0.875	-2.1	106	0.00
74	T	Cumene	3.431	3.009	12.3	105	0.00
75	T	alpha-Pinene	1.610	1.471	8.6	105	0.00
76	T	n-Propylbenzene	3.987	3.498	12.3	105	0.00

858

IDH 5/28/08

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

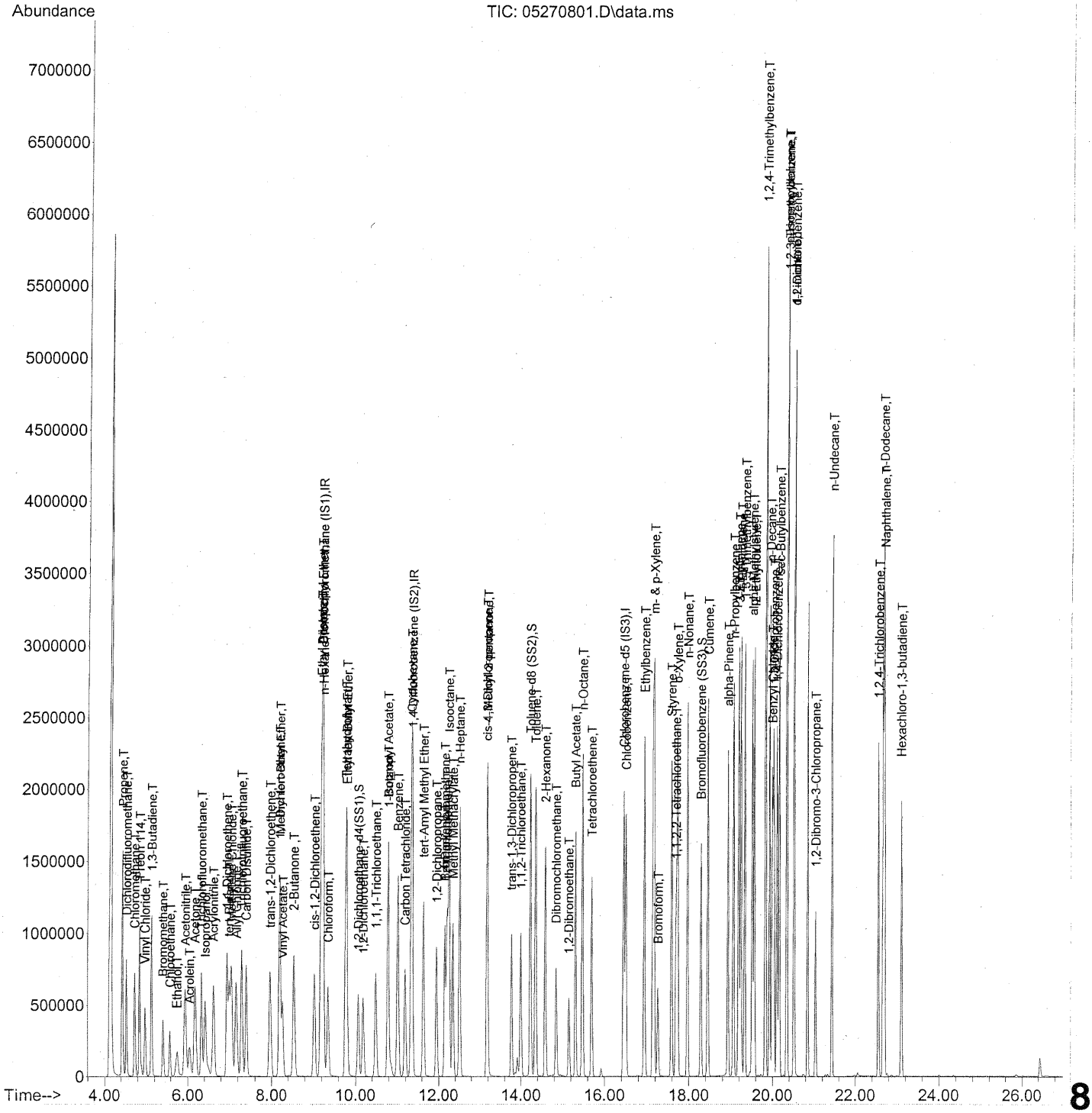
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	T	3-Ethyltoluene	3.764	3.285	12.7	105	-0.01
78	T	4-Ethyltoluene	3.396	2.914	14.2	103	-0.01
79	T	1,3,5-Trimethylbenzene	3.011	2.595	13.8	105	-0.01
80	T	alpha-Methylstyrene	1.693	1.591	6.0	105	-0.02
81	T	2-Ethyltoluene	3.649	3.219	11.8	104	-0.01
82	T	1,2,4-Trimethylbenzene	3.048	2.603	14.6	104	-0.02
83	T	n-Decane	2.158	1.907	11.6	103	-0.01
84	T	Benzyl Chloride	2.355	2.175	7.6	104	-0.02
85	T	1,3-Dichlorobenzene	1.931	1.660	14.0	105	-0.02
86	T	1,4-Dichlorobenzene	1.875	1.618	13.7	105	-0.01
87	T	sec-Butylbenzene	3.954	3.485	11.9	104	-0.01
88	T	p-Isopropyltoluene	3.455	3.088	10.6	105	-0.02
89	T	1,2,3-Trimethylbenzene	2.927	2.590	11.5	104	-0.01
90	T	1,2-Dichlorobenzene	1.773	1.535	13.4	105	-0.02
91	T	d-Limonene	0.939	0.876	6.7	105	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.570	0.548	3.9	104	-0.01
93	T	n-Undecane	2.263	2.040	9.9	102	0.00
94	T	1,2,4-Trichlorobenzene	0.321	0.293	8.7	103	0.00
95	T	Naphthalene	4.428	4.103	7.3	104	-0.01
96	T	n-Dodecane	2.205	2.051	7.0	102	0.00
97	T	Hexachloro-1,3-butadiene	0.533	0.470	11.8	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	416189	25.000	ng		-0.03
37) 1,4-Difluorobenzene (IS2)	11.36	114	1740493	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	689026	25.000	ng		0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.06	65	581614	24.440	ng		-0.03
Spiked Amount 25.000			Recovery = 97.76%				
57) Toluene-d8 (SS2)	14.23	98	1754045	24.692	ng		-0.02
Spiked Amount 25.000			Recovery = 98.76%				
73) Bromofluorobenzene (SS3)	18.29	174	603108	25.536	ng		0.00
Spiked Amount 25.000			Recovery = 102.16%				
Target Compounds							Qvalue
2) Propene	4.43	42	725951	22.533	ng		92
3) Dichlorodifluoromethane	4.53	85	817463	20.978	ng		97
4) Chloromethane	4.72	50	1053229	21.512	ng		99
5) Freon 114	4.84	135	496481	22.796	ng		97
6) Vinyl Chloride	4.97	62	651645	20.899	ng		95
7) 1,3-Butadiene	5.12	54	673052	23.682	ng	#	84
8) Bromomethane	5.41	94	354628	22.064	ng		99
9) Chloroethane	5.58	64	350851	21.775	ng		96
10) Ethanol	5.74	45	443635m	20.295	ng		
11) Acetonitrile	5.94	41	1318157	20.920	ng		98
12) Acrolein	6.05	56	344697	21.870	ng		99
13) Acetone	6.17	58	495588	22.789	ng	#	73
14) Trichlorofluoromethane	6.32	101	812509	22.273	ng		100
15) Isopropanol	6.42	45	1426773m	21.781	ng		
16) Acrylonitrile	6.62	53	903829	22.866	ng		96
17) 1,1-Dichloroethene	6.94	96	426374	25.047	ng		94
18) tert-Butanol	6.99	59	1413591	23.146	ng		95
19) Methylene Chloride	7.05	84	405177	24.156	ng	#	48
20) Allyl Chloride	7.17	41	920124	23.798	ng		82
21) Trichlorotrifluoroethane	7.29	151	435473	24.568	ng		85
22) Carbon Disulfide	7.39	76	1507705	22.348	ng		100
23) trans-1,2-Dichloroethene	7.97	61	801097	23.893	ng		94
24) 1,1-Dichloroethane	8.19	63	876273	24.611	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1256948	24.179	ng		80
26) Vinyl Acetate	8.27	86	84607	23.755	ng	#	1
27) 2-Butanone	8.54	72	281274	24.739	ng	#	28
28) cis-1,2-Dichloroethene	9.03	61	747889	24.253	ng		95
29) Diisopropyl Ether	9.19	87	347485	23.202	ng	#	43
30) Ethyl Acetate	9.19	61	221966	27.981	ng		88
31) n-Hexane	9.23	57	1143262	24.111	ng		92

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.35	83	688064	28.016	ng		95
34) Tetrahydrofuran	9.77	72	272313	25.482	ng	#	52
35) Ethyl tert-Butyl Ether	9.79	87	515269	23.507	ng	#	77
36) 1,2-Dichloroethane	10.19	62	667926	23.721	ng		96
38) 1,1,1-Trichloroethane	10.49	97	703153	23.729	ng		94
39) Isopropyl Acetate	10.78	61	338475	23.001	ng	#	72
40) 1-Butanol	10.79	56	571937	19.965	ng		95
41) Benzene	11.02	78	1607615	21.906	ng		99
42) Carbon Tetrachloride	11.19	117	708911	23.552	ng		99
43) Cyclohexane	11.34	84	644441	22.461	ng	#	48
44) tert-Amyl Methyl Ether	11.63	73	1142592	23.384	ng		79
45) 1,2-Dichloropropane	11.94	63	510772	23.570	ng		96
46) Bromodichloromethane	12.15	83	550857	25.537	ng		94
47) Trichloroethene	12.20	130	570543	24.978	ng		100
48) 1,4-Dioxane	12.15	88	356877	26.033	ng	#	69
49) Isooctane	12.25	57	2654133	22.623	ng		91
50) Methyl Methacrylate	12.35	100	197793	25.121	ng	#	71
51) n-Heptane	12.51	71	430888	24.599	ng	#	50
52) cis-1,3-Dichloropropene	13.17	75	644244	23.588	ng		99
53) 4-Methyl-2-pentanone	13.19	58	596164	23.366	ng		86
54) trans-1,3-Dichloropropene	13.77	75	662685	26.322	ng		98
55) 1,1,2-Trichloroethane	14.00	97	430930	24.144	ng		90
58) Toluene	14.35	91	1853426	23.002	ng		98
59) 2-Hexanone	14.59	43	1583879	20.814	ng		99
60) Dibromochloromethane	14.85	129	583969	24.559	ng		100
61) 1,2-Dibromoethane	15.15	107	523295	23.655	ng		99
62) Butyl Acetate	15.31	43	1733812	22.660	ng		91
63) n-Octane	15.48	57	554585	22.762	ng		96
64) Tetrachloroethene	15.70	166	559421	23.472	ng		99
65) Chlorobenzene	16.50	112	1349551	23.504	ng		100
66) Ethylbenzene	16.94	91	2140175	23.367	ng		93
67) m- & p-Xylene	17.16	91	3336903	54.989	ng		91
68) Bromoform	17.26	173	419465	30.385	ng		100
69) Styrene	17.59	104	1422256	24.262	ng		94
70) o-Xylene	17.73	91	1700170	26.177	ng		93
71) n-Nonane	17.97	43	1391262	21.706	ng		96
72) 1,1,2,2-Tetrachloroethane	17.70	83	711206	26.443	ng		93
74) Cumene	18.45	105	2238997	23.679	ng		94
75) alpha-Pinene	18.93	93	1074054	24.210	ng		93
76) n-Propylbenzene	19.07	91	2535739	23.078	ng		92
77) 3-Ethyltoluene	19.19	105	2308563	22.256	ng		94
78) 4-Ethyltoluene	19.24	105	2232717	23.857	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	1930922	23.270	ng		91

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

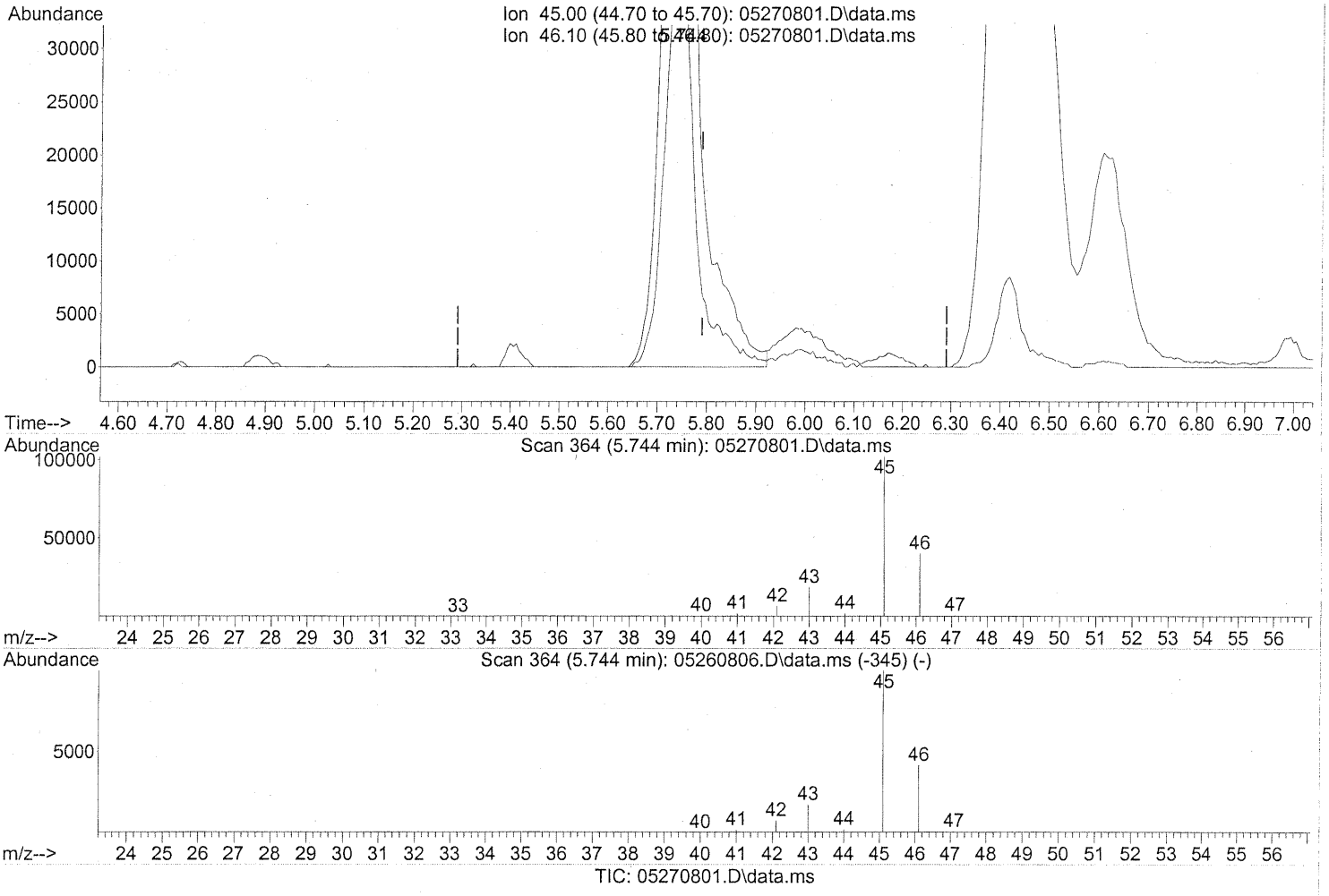
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.52	118	1118361	23.969	ng		97
81) 2-Ethyltoluene	19.57	105	2200240	21.876	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	1972599	23.481	ng		91
83) n-Decane	19.93	57	1366185	22.972	ng		80
84) Benzyl Chloride	20.00	91	1606694	24.753	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1212749	22.784	ng		99
86) 1,4-Dichlorobenzene	20.10	146	1226678	23.739	ng		98
87) sec-Butylbenzene	20.16	105	2574478	23.623	ng		95
88) p-Isopropyltoluene	20.34	119	2510829	26.370	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	1962925	24.336	ng		88
90) 1,2-Dichlorobenzene	20.52	146	1142094	23.374	ng		100
91) d-Limonene	20.52	68	639608	24.707	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	392456	24.988	ng		80
93) n-Undecane	21.44	57	1478945	23.712	ng		79
94) 1,2,4-Trichlorobenzene	22.55	184	226259	25.599	ng	#	87
95) Naphthalene	22.69	128	2974063	24.367	ng		99
96) n-Dodecane	22.66	57	1497668	24.644	ng		78
97) Hexachloro-1,3-butadiene	23.11	225	360433	24.544	ng		99

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

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 12:04:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270801.D\data.ms

(10) Ethanol (T)

5.744min (-0.047) 19.17ng

response 419141

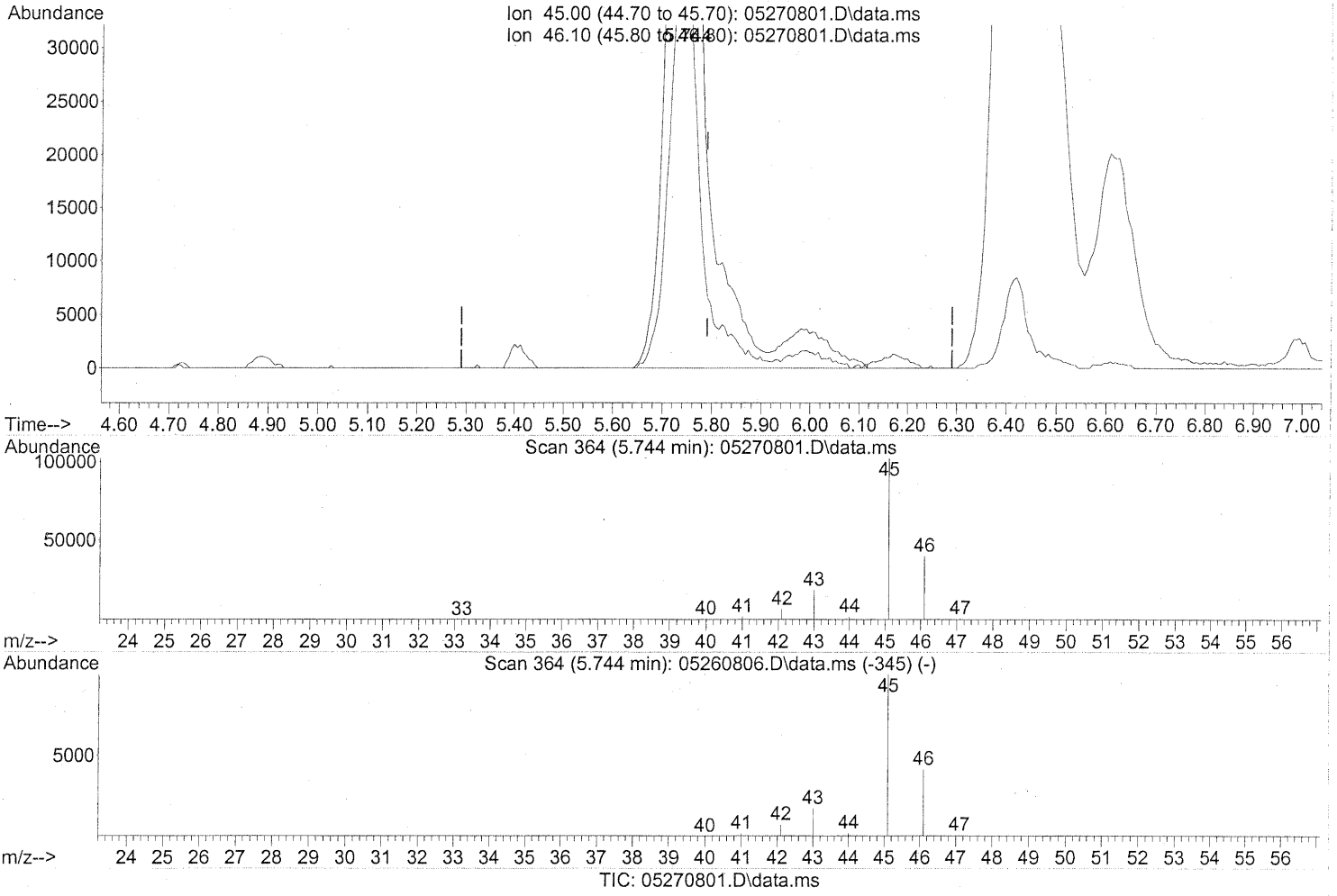
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 12:04:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270801.D\data.ms

(10) Ethanol (T)

5.744min (-0.047) 20.29ng m

response 443635

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	37.81
0.00	0.00	0.00
0.00	0.00	0.00

int whole peaks
KA 5/28/08

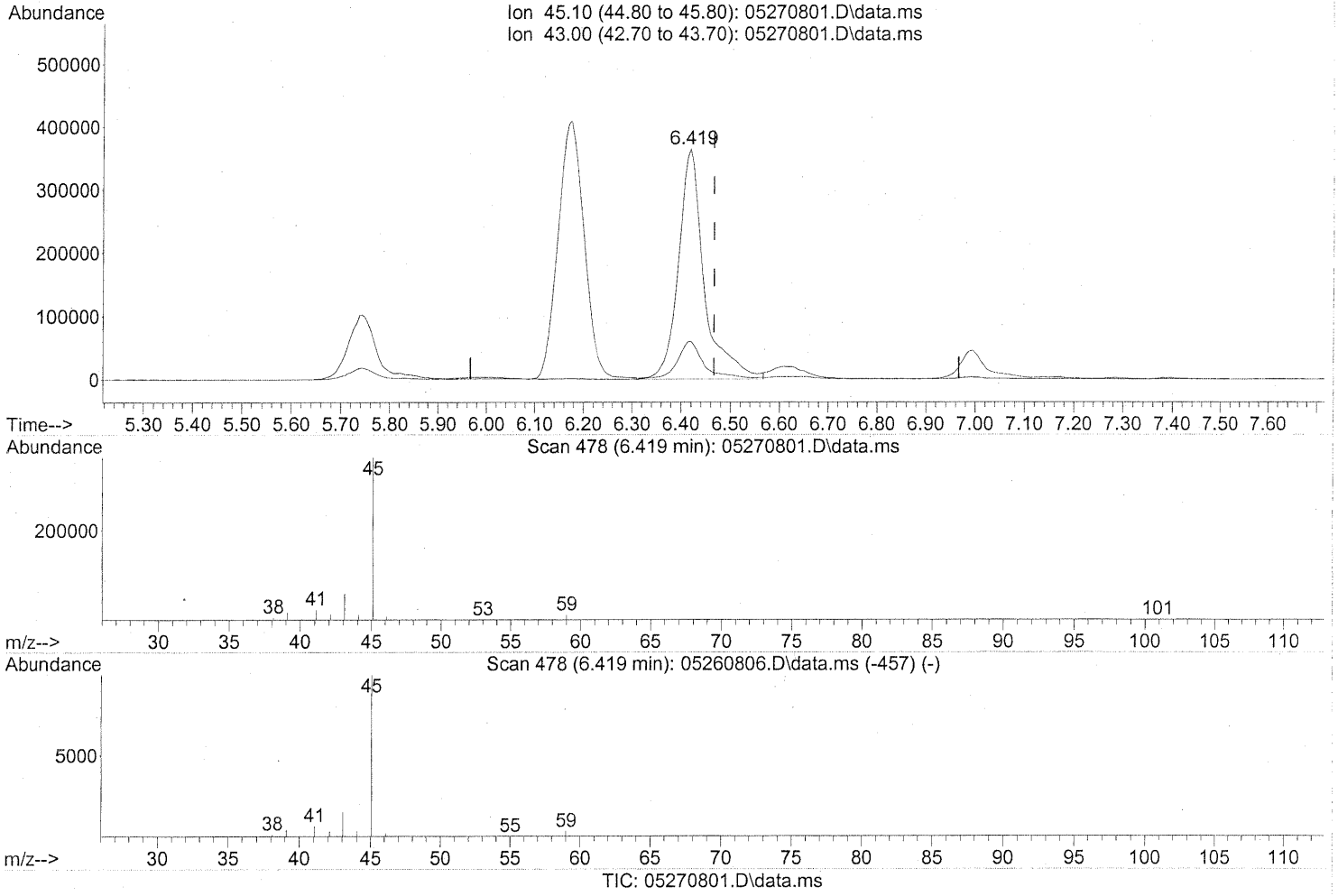
VA 5/29/08

865

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 27 12:04:46 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05270801.D\data.ms

(15) Isopropanol (T)

6.419min (-0.048) 20.23ng

response 1325297

tailing

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.68
0.00	0.00	0.00
0.00	0.00	0.00

866

```
Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On    : 27 May 2008  10:18 am
Operator  : WA
Sample    : 25ng TO-15 CCV STD
Misc      : S20-05120801/S20-05210802
ALS Vial  : 1   Sample Multiplier: 1

Quant Time: May 28 18:22:10 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title  : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration
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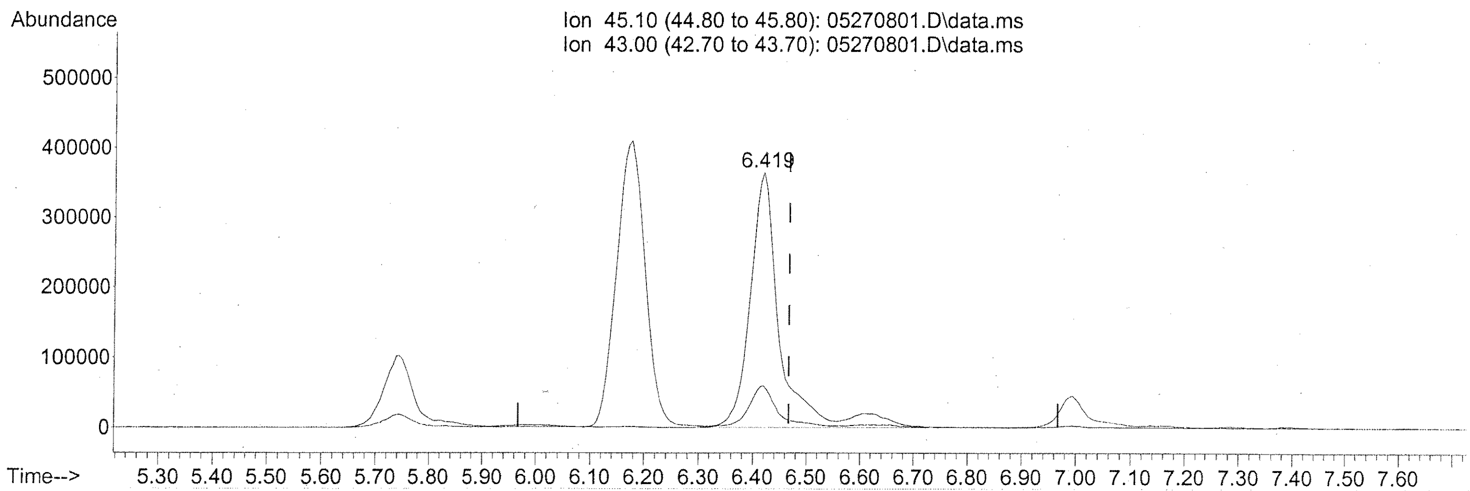
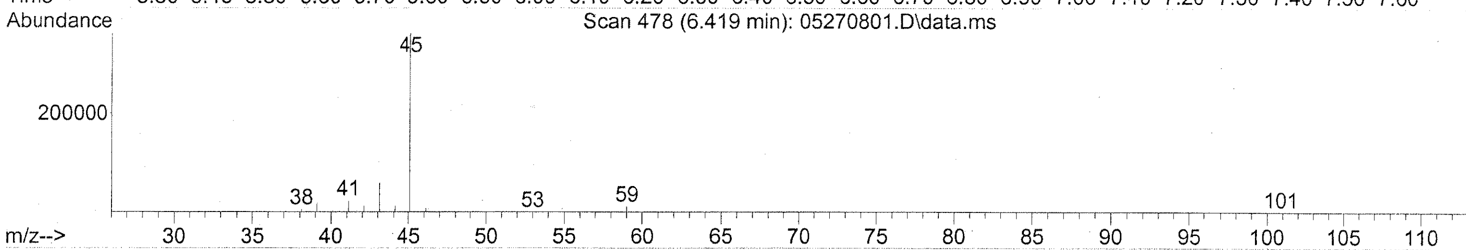
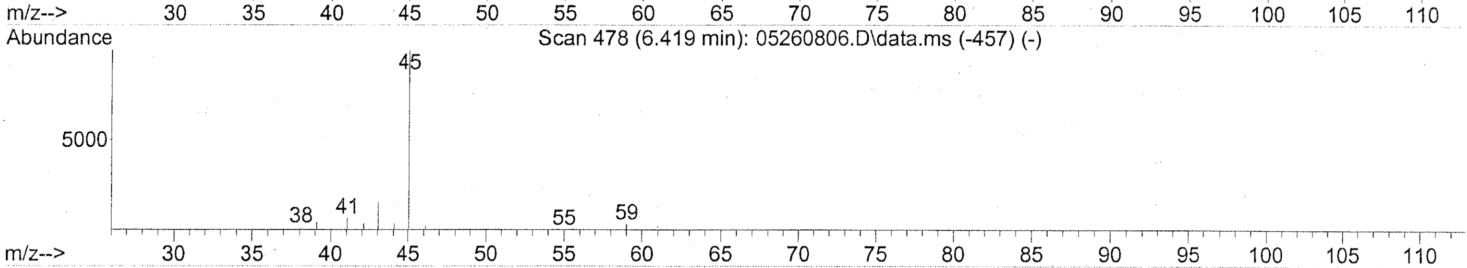






TIC: 05270801.D\data.ms

(15) Isopropanol (T)

6.419min (-0.048) 21.78ng m

response 1426773

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.49
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

5/29/08

5/29/08

867

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:10 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 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	105	-0.03
2	S	1,2-Dichloroethane-d4(SS1)	1.430	1.397	2.3	104	-0.03
3	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	106	-0.02
4	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	105	0.00
5	S	Toluene-d8 (SS2)	2.577	2.546	1.2	106	-0.02
6	S	Bromofluorobenzene (SS3)	0.857	0.875	-2.1	106	0.00
7		tert-Butylbenzene	3.113	2.732	12.2	105	-0.02
8		n-Butylbenzene	2.965	2.607	12.1	104	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

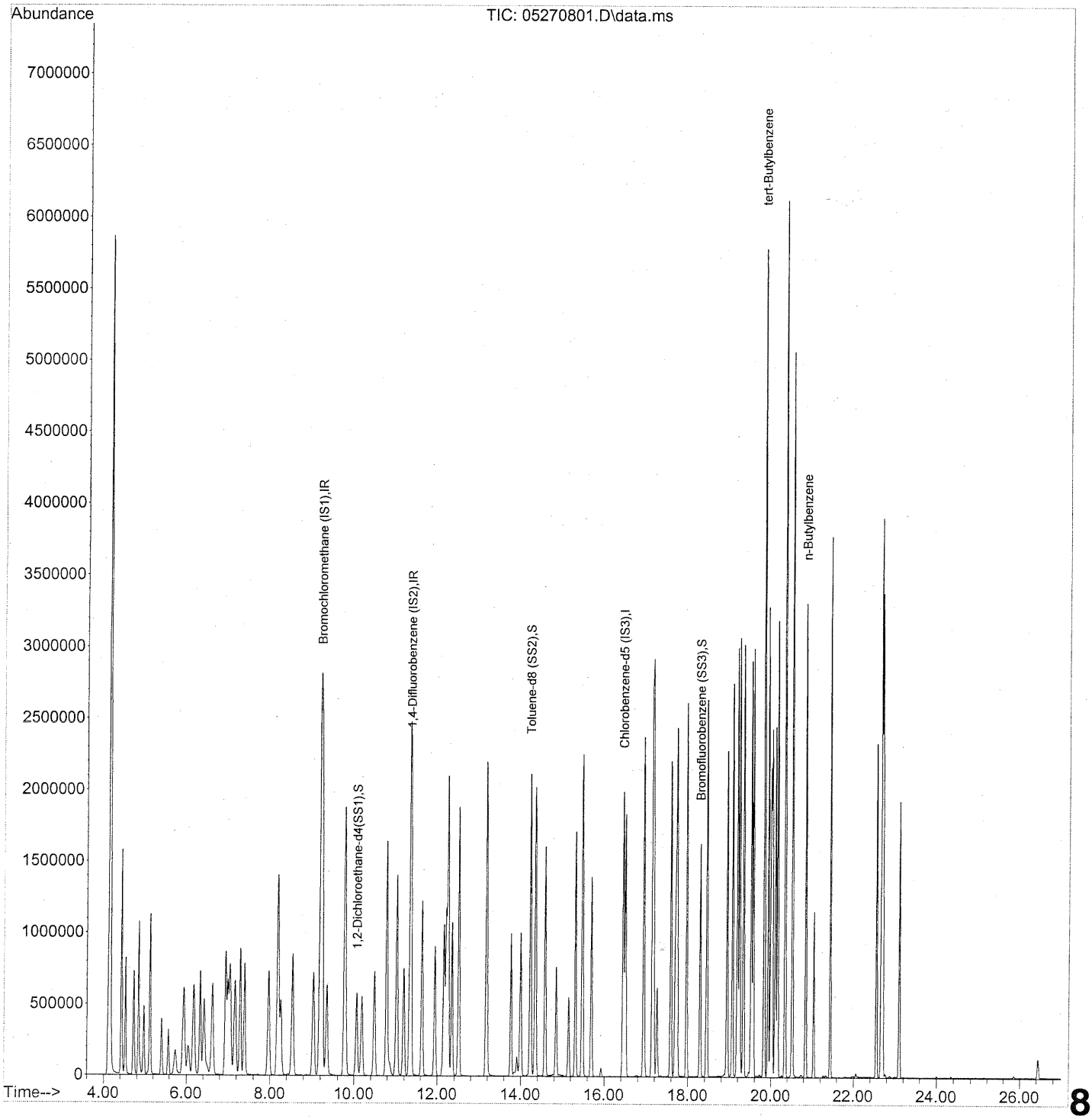
868

6/4/08

Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:10 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:10 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	416189	25.000	ng		-0.03
3) 1,4-Difluorobenzene (IS2)	11.36	114	1740493	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	689026	25.000	ng		0.00
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.06	65	581614	24.440	ng		-0.03
Spiked Amount 25.000			Recovery = 97.76%				
5) Toluene-d8 (SS2)	14.23	98	1754045	24.692	ng		-0.02
Spiked Amount 25.000			Recovery = 98.76%				
6) Bromofluorobenzene (SS3)	18.29	174	603108	25.536	ng		0.00
Spiked Amount 25.000			Recovery = 102.16%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	1957831	22.821	ng		97
8) n-Butylbenzene	20.84	91	1925635	23.563	ng	#	94

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

DH 6/4/08

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	99	-0.04
2	T	Propene	1.935	1.863	3.7	96	0.00
3	T	Dichlorodifluoromethane	2.341	2.241	4.3	96	0.00
4	T	Chloromethane	2.941	2.626	10.7	96	-0.01
5	T	Freon 114	1.308	1.293	1.1	97	-0.01
6	T	Vinyl Chloride	1.873	1.827	2.5	98	-0.02
7	T	1,3-Butadiene	1.707	1.657	2.9	102	-0.02
8	T	Bromomethane	0.965	0.831	13.9	97	-0.02
9	T	Chloroethane	0.968	0.912	5.8	95	-0.02
10	T	Ethanol	1.313	1.358	-3.4	96	-0.08
11	T	Acetonitrile	3.785	3.522	6.9	91	-0.05
12	T	Acrolein	0.947	0.839	11.4	94	-0.04
13	T	Acetone	1.306	1.430	-9.5	96	-0.05
14	T	Trichlorofluoromethane	2.191	2.053	6.3	95	-0.02
15	T	Isopropanol	3.935	3.429	12.9	95	-0.08
16	T	Acrylonitrile	2.374	2.268	4.5	94	-0.05
17	T	1,1-Dichloroethene	1.023	0.980	4.2	96	-0.03
18	T	tert-Butanol	3.669	3.688	-0.5	96	-0.07
19	T	Methylene Chloride	1.008	0.975	3.3	96	-0.04
20	T	Allyl Chloride	2.322	2.236	3.7	92	-0.04
21	T	Trichlorotrifluoroethane	1.065	1.015	4.7	95	-0.02
22	T	Carbon Disulfide	4.053	3.841	5.2	96	-0.02
23	T	trans-1,2-Dichloroethene	2.014	1.919	4.7	96	-0.04
24	T	1,1-Dichloroethane	2.139	2.040	4.6	94	-0.05
25	T	Methyl tert-Butyl Ether	3.123	2.997	4.0	96	-0.03
26	T	Vinyl Acetate	0.214	0.228	-6.5	100	-0.04
27	T	2-Butanone	0.683	0.679	0.6	96	-0.04
28	T	cis-1,2-Dichloroethene	1.852	1.760	5.0	94	-0.04
29	T	Diisopropyl Ether	0.900	0.873	3.0	94	-0.03
30	T	Ethyl Acetate	0.477	0.480	-0.6	96	-0.04
31	T	n-Hexane	2.848	2.694	5.4	96	-0.02
32	T	Chloroform	1.475	1.389	5.8	94	-0.05
33	S	1,2-Dichloroethane-d4(SS1)	1.430	1.395	2.4	98	-0.04
34	T	Tetrahydrofuran	0.642	0.626	2.5	92	-0.03
35	T	Ethyl tert-Butyl Ether	1.317	1.268	3.7	96	-0.04
36	T	1,2-Dichloroethane	1.691	1.604	5.1	94	-0.04
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	97	-0.02
38	T	1,1,1-Trichloroethane	0.426	0.410	3.8	96	-0.03

871

DA 5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	0.211	0.214	-1.4	97	-0.04
40	T	1-Butanol	0.411	0.405	1.5	96	-0.05
41	T	Benzene	1.054	0.940	10.8	95	-0.03
42	T	Carbon Tetrachloride	0.432	0.423	2.1	96	-0.02
43	T	Cyclohexane	0.412	0.370	10.2	94	-0.02
44	T	tert-Amyl Methyl Ether	0.702	0.689	1.9	96	-0.02
45	T	1,2-Dichloropropane	0.311	0.302	2.9	94	-0.03
46	T	Bromodichloromethane	0.310	0.304	1.9	96	-0.03
47	T	Trichloroethene	0.328	0.318	3.0	95	-0.03
48	T	1,4-Dioxane	0.197	0.202	-2.5	96	-0.03
49	T	Isooctane	1.685	1.631	3.2	96	-0.02
50	T	Methyl Methacrylate	0.113	0.120	-6.2	100	-0.02
51	T	n-Heptane	0.252	0.247	2.0	92	-0.02
52	T	cis-1,3-Dichloropropene	0.392	0.393	-0.3	96	-0.02
53	T	4-Methyl-2-pentanone	0.366	0.361	1.4	94	-0.03
54	T	trans-1,3-Dichloropropene	0.362	0.357	1.4	96	-0.02
55	T	1,1,2-Trichloroethane	0.256	0.252	1.6	96	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	101	-0.01
57	S	Toluene-d8 (SS2)	2.577	2.485	3.6	98	-0.02
58	T	Toluene	2.924	2.635	9.9	95	-0.02
59	T	2-Hexanone	2.761	2.496	9.6	94	-0.02
60	T	Dibromochloromethane	0.863	0.804	6.8	96	-0.02
61	T	1,2-Dibromoethane	0.803	0.748	6.8	97	-0.02
62	T	Butyl Acetate	2.776	2.621	5.6	95	-0.02
63	T	n-Octane	0.884	0.828	6.3	94	-0.01
64	T	Tetrachloroethene	0.865	0.808	6.6	96	-0.02
65	T	Chlorobenzene	2.083	1.917	8.0	95	-0.02
66	T	Ethylbenzene	3.323	3.089	7.0	97	-0.01
67	T	m- & p-Xylene	2.202	2.011	8.7	96	-0.02
68	T	Bromoform	0.501	0.470	6.2	95	-0.02
69	T	Styrene	2.127	1.989	6.5	95	-0.02
70	T	o-Xylene	2.357	2.157	8.5	95	-0.02
71	T	n-Nonane	2.326	2.152	7.5	94	-0.01
72	T	1,1,2,2-Tetrachloroethane	0.976	0.897	8.1	95	-0.02
73	S	Bromofluorobenzene (SS3)	0.857	0.894	-4.3	105	0.00
74	T	Cumene	3.431	3.148	8.2	95	-0.01
75	T	alpha-Pinene	1.610	1.545	4.0	95	0.00
76	T	n-Propylbenzene	3.987	3.656	8.3	95	-0.01

872

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	3.764	3.365	10.6	95	-0.01
78	T	4-Ethyltoluene	3.396	3.220	5.2	97	-0.01
79	T	1,3,5-Trimethylbenzene	3.011	2.759	8.4	96	-0.01
80	T	alpha-Methylstyrene	1.693	1.613	4.7	96	-0.02
81	T	2-Ethyltoluene	3.649	3.394	7.0	96	-0.02
82	T	1,2,4-Trimethylbenzene	3.048	2.793	8.4	96	-0.02
83	T	n-Decane	2.158	2.014	6.7	95	-0.01
84	T	Benzyl Chloride	2.355	2.180	7.4	95	-0.02
85	T	1,3-Dichlorobenzene	1.931	1.775	8.1	97	-0.02
86	T	1,4-Dichlorobenzene	1.875	1.693	9.7	95	-0.01
87	T	sec-Butylbenzene	3.954	3.653	7.6	95	-0.01
88	T	p-Isopropyltoluene	3.455	3.224	6.7	96	-0.02
89	T	1,2,3-Trimethylbenzene	2.927	2.693	8.0	96	-0.02
90	T	1,2-Dichlorobenzene	1.773	1.625	8.3	96	-0.02
91	T	d-Limonene	0.939	0.891	5.1	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.570	0.526	7.7	95	-0.01
93	T	n-Undecane	2.263	2.114	6.6	95	0.00
94	T	1,2,4-Trichlorobenzene	0.321	0.286	10.9	95	0.00
95	T	Naphthalene	4.428	3.625	18.1	95	-0.01
96	T	n-Dodecane	2.205	2.043	7.3	95	0.00
97	T	Hexachloro-1,3-butadiene	0.533	0.498	6.6	96	0.00

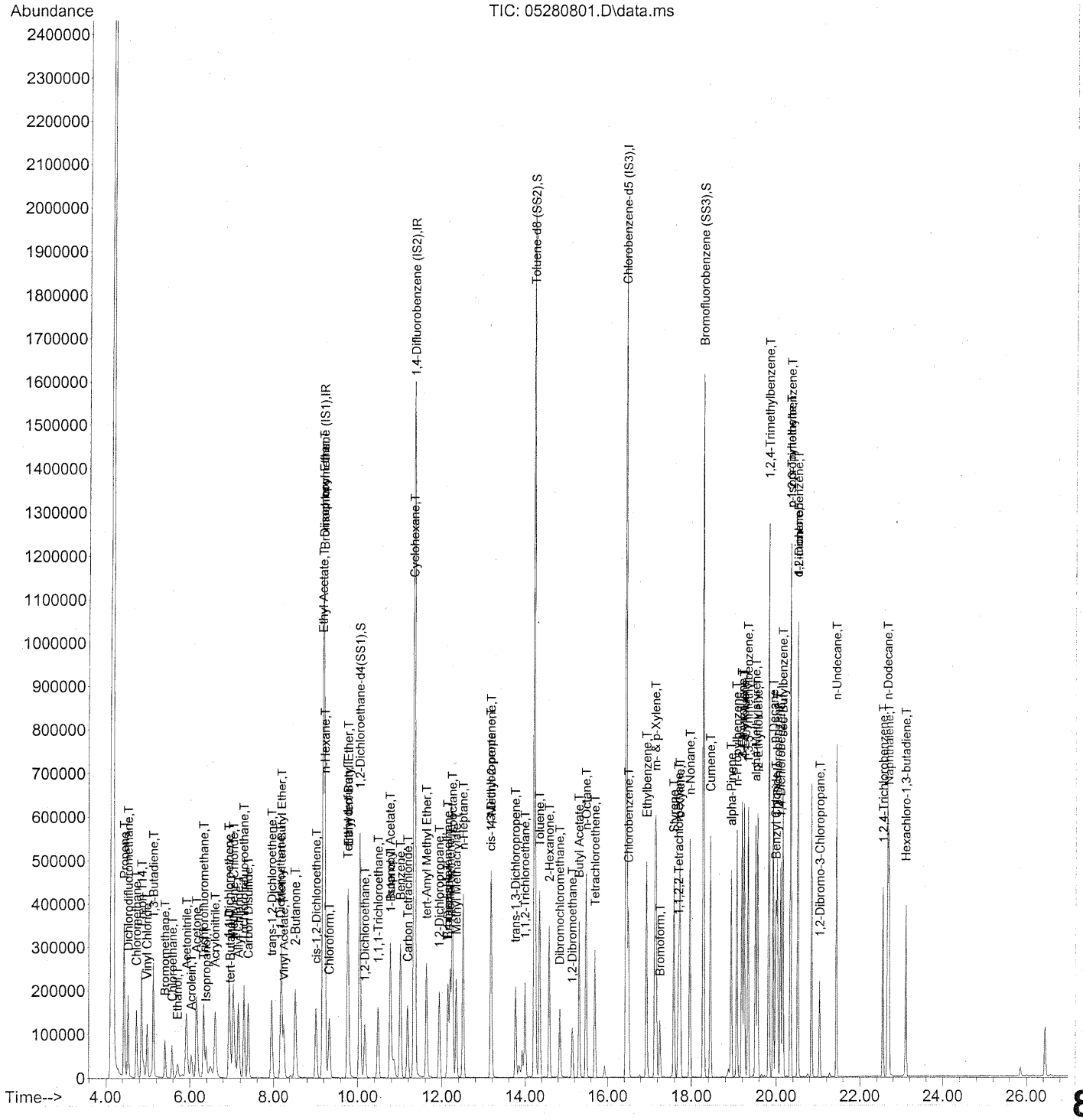
(#) = Out of Range SPCC's out = 0 CCC's out = 0

873

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	393838	25.000	ng		-0.04
37) 1,4-Difluorobenzene (IS2)	11.36	114	1621199	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	662879	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.05	65	549542	24.403	ng		-0.04
Spiked Amount 25.000			Recovery = 97.60%				
57) Toluene-d8 (SS2)	14.23	98	1647502	24.107	ng		-0.02
Spiked Amount 25.000			Recovery = 96.44%				
73) Bromofluorobenzene (SS3)	18.29	174	592464	26.075	ng		0.00
Spiked Amount 25.000			Recovery = 104.28%				
Target Compounds							Qvalue
2) Propene	4.44	42	158486	5.199	ng		93
3) Dichlorodifluoromethane	4.53	85	183556	4.978	ng		98
4) Chloromethane	4.73	50	211009	4.554	ng		100
5) Freon 114	4.85	135	108999	5.289	ng		96
6) Vinyl Chloride	4.97	62	148191	5.022	ng		93
7) 1,3-Butadiene	5.12	54	142306	5.291	ng	#	86
8) Bromomethane	5.41	94	68727	4.519	ng		99
9) Chloroethane	5.58	64	75421	4.946	ng		95
10) Ethanol	5.71	45	97366m	4.707	ng		
11) Acetonitrile	5.92	41	271897	4.560	ng		100
12) Acrolein	6.03	56	63480	4.256	ng		99
13) Acetone	6.16	58	125012	6.075	ng	#	74
14) Trichlorofluoromethane	6.32	101	168191	4.872	ng		100
15) Isopropanol	6.38	45	278161m	4.487	ng		
16) Acrylonitrile	6.60	53	180449	4.824	ng		98
17) 1,1-Dichloroethene	6.93	96	87233	5.415	ng		92
18) tert-Butanol	6.96	59	296303m	5.127	ng		
19) Methylene Chloride	7.04	84	85983	5.417	ng	#	45
20) Allyl Chloride	7.15	41	184963	5.055	ng		79
21) Trichlorotrifluoroethane	7.28	151	91135	5.433	ng		86
22) Carbon Disulfide	7.39	76	302546	4.739	ng		100
23) trans-1,2-Dichloroethene	7.95	61	166284	5.241	ng		93
24) 1,1-Dichloroethane	8.17	63	178353	5.294	ng		95
25) Methyl tert-Butyl Ether	8.19	73	262059	5.327	ng		80
26) Vinyl Acetate	8.25	86	17574	5.214	ng	#	37
27) 2-Butanone	8.53	72	59878	5.565	ng	#	26
28) cis-1,2-Dichloroethene	9.02	61	153897	5.274	ng		96
29) Diisopropyl Ether	9.19	87	70853	5.000	ng	#	34
30) Ethyl Acetate	9.18	61	48039	6.399	ng		85
31) n-Hexane	9.23	57	237625	5.296	ng		92

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
32) Chloroform	9.33	83	141106	6.072 ng		96
34) Tetrahydrofuran	9.77	72	54704	5.409 ng	#	45
35) Ethyl tert-Butyl Ether	9.78	87	104857	5.055 ng	#	75
36) 1,2-Dichloroethane	10.17	62	138959	5.215 ng		97
38) 1,1,1-Trichloroethane	10.48	97	146099	5.293 ng		94
39) Isopropyl Acetate	10.77	61	69976	5.105 ng	#	70
40) 1-Butanol	10.78	56	119645	4.484 ng		98
41) Benzene	11.01	78	335139	4.903 ng		99
42) Carbon Tetrachloride	11.18	117	146744	5.234 ng		98
43) Cyclohexane	11.33	84	133145	4.982 ng	#	26
44) tert-Amyl Methyl Ether	11.63	73	232444	5.107 ng		77
45) 1,2-Dichloropropane	11.94	63	106701	5.286 ng		98
46) Bromodichloromethane	12.14	83	113333	5.641 ng		94
47) Trichloroethene	12.20	130	117719	5.533 ng		98
48) 1,4-Dioxane	12.14	88	75152	5.886 ng	#	73
49) Isooctane	12.25	57	550124	5.034 ng		92
50) Methyl Methacrylate	12.34	100	41328	5.635 ng	#	67
51) n-Heptane	12.51	71	89064	5.459 ng	#	50
52) cis-1,3-Dichloropropene	13.17	75	132529	5.209 ng		99
53) 4-Methyl-2-pentanone	13.18	58	122833	5.169 ng		87
54) trans-1,3-Dichloropropene	13.76	75	134235	5.724 ng		98
55) 1,1,2-Trichloroethane	13.99	97	89092	5.359 ng		90
58) Toluene	14.35	91	384339	4.958 ng		98
59) 2-Hexanone	14.58	43	337545	4.611 ng		99
60) Dibromochloromethane	14.84	129	118297	5.171 ng		100
61) 1,2-Dibromoethane	15.14	107	108039	5.076 ng		100
62) Butyl Acetate	15.31	43	364880	4.957 ng		93
63) n-Octane	15.48	57	114155	4.870 ng		95
64) Tetrachloroethene	15.69	166	116828	5.095 ng		100
65) Chlorobenzene	16.50	112	279523	5.060 ng		99
66) Ethylbenzene	16.94	91	442254	5.019 ng		93
67) m- & p-Xylene	17.16	91	687820	11.782 ng		90
68) Bromoform	17.26	173	81572	6.142 ng		100
69) Styrene	17.59	104	284854	5.051 ng		95
70) o-Xylene	17.73	91	348866	5.583 ng		93
71) n-Nonane	17.97	43	293801	4.765 ng		95
72) 1,1,2,2-Tetrachloroethane	17.70	83	146289	5.654 ng		93
74) Cumene	18.45	105	450782	4.955 ng		94
75) alpha-Pinene	18.93	93	217155	5.088 ng		93
76) n-Propylbenzene	19.06	91	509001	4.815 ng		92
77) 3-Ethyltoluene	19.19	105	455104	4.560 ng		94
78) 4-Ethyltoluene	19.24	105	473911	5.264 ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	395062	4.949 ng		90

5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 15:52:44 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
80) alpha-Methylstyrene	19.52	118	218061	4.858 ng	97
81) 2-Ethyltoluene	19.56	105	445459	4.604 ng	92
82) 1,2,4-Trimethylbenzene	19.83	105	407273	5.039 ng	91
83) n-Decane	19.93	57	277666	4.853 ng	80
84) Benzyl Chloride	19.99	91	309288	4.953 ng	89
85) 1,3-Dichlorobenzene	20.02	146	249448	4.871 ng	100
86) 1,4-Dichlorobenzene	20.10	146	246936	4.967 ng	97
87) sec-Butylbenzene	20.16	105	518149	4.942 ng	95
88) p-Isopropyltoluene	20.34	119	504435	5.507 ng	93
89) 1,2,3-Trimethylbenzene	20.34	105	392732	5.061 ng	87
90) 1,2-Dichlorobenzene	20.52	146	232715	4.951 ng	99
91) d-Limonene	20.52	68	125218	5.028 ng	85
92) 1,2-Dibromo-3-Chloropr...	21.04	157	72570	4.803 ng	83
93) n-Undecane	21.43	57	294313	4.905 ng	79
94) 1,2,4-Trichlorobenzene	22.55	184	42431	4.990 ng	89
95) Naphthalene	22.69	128	504550	4.297 ng	99
96) n-Dodecane	22.66	57	287048	4.910 ng	77
97) Hexachloro-1,3-butadiene	23.11	225	73249	5.185 ng	100

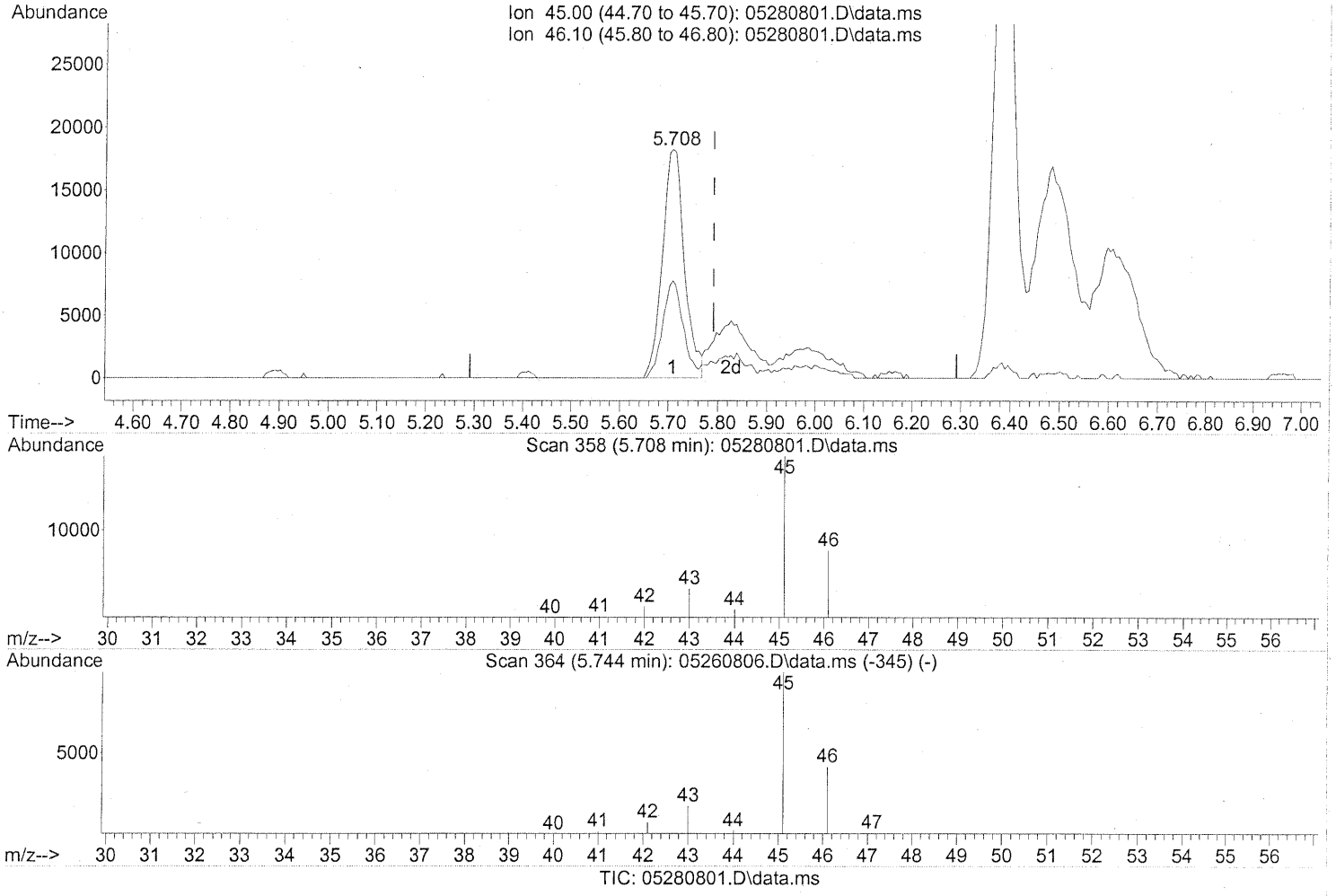
(#) = qualifier out of range (m) = manual integration (+) = signals summed

5/29/08

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280801.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 2.73ng

response 56383

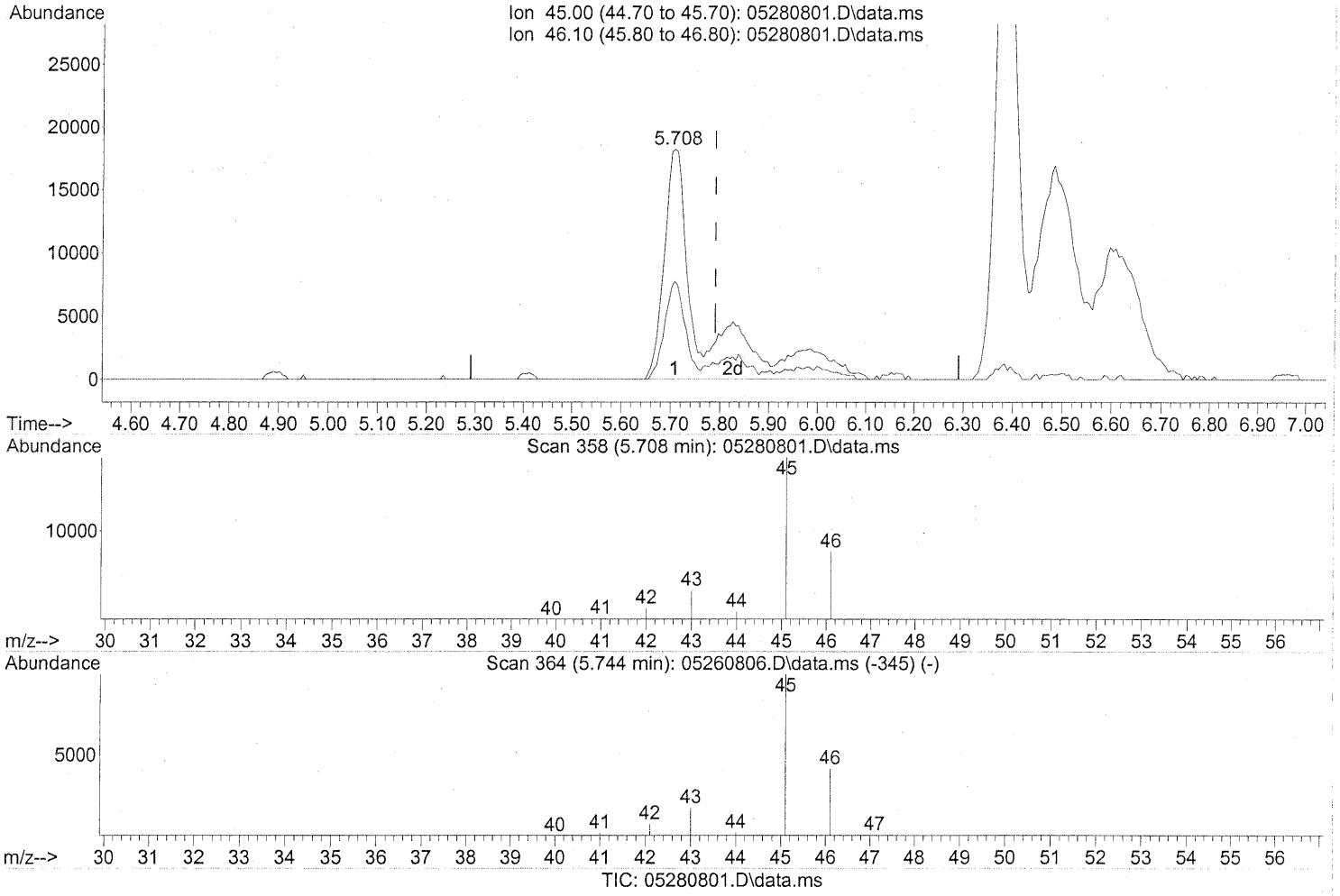
Ion	Exp%	Act%
45.00	100	100
46.10	37.00	39.72
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

878

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280801.D\data.ms

(10) Ethanol (T)

5.708min (-0.083) 4.71ng m

response 97366

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	23.00
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

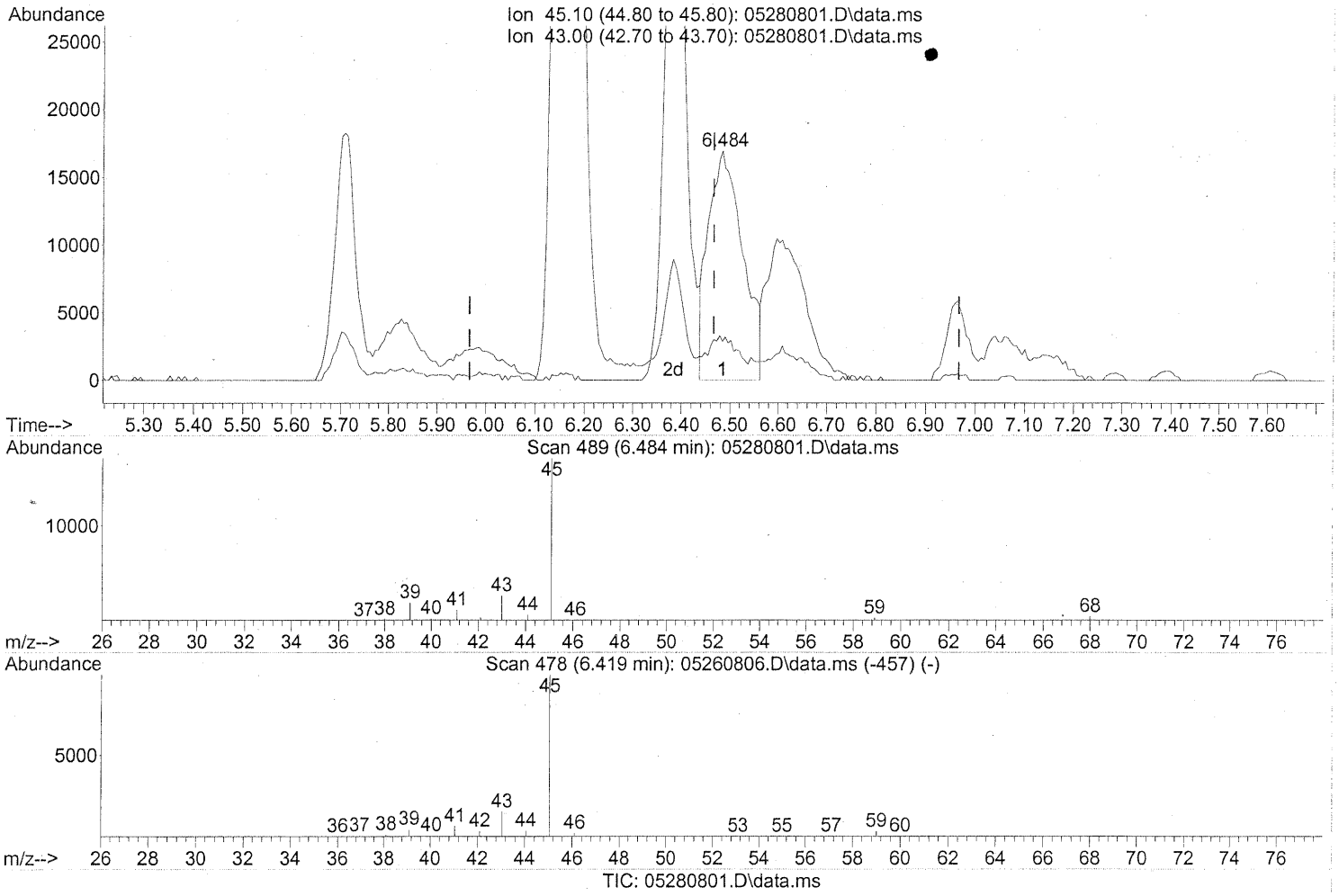
KH 5/29/08

WH 5/29/08

879

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280801.D\data.ms

(15) Isopropanol (T)

6.484min (+0.017) 1.36ng

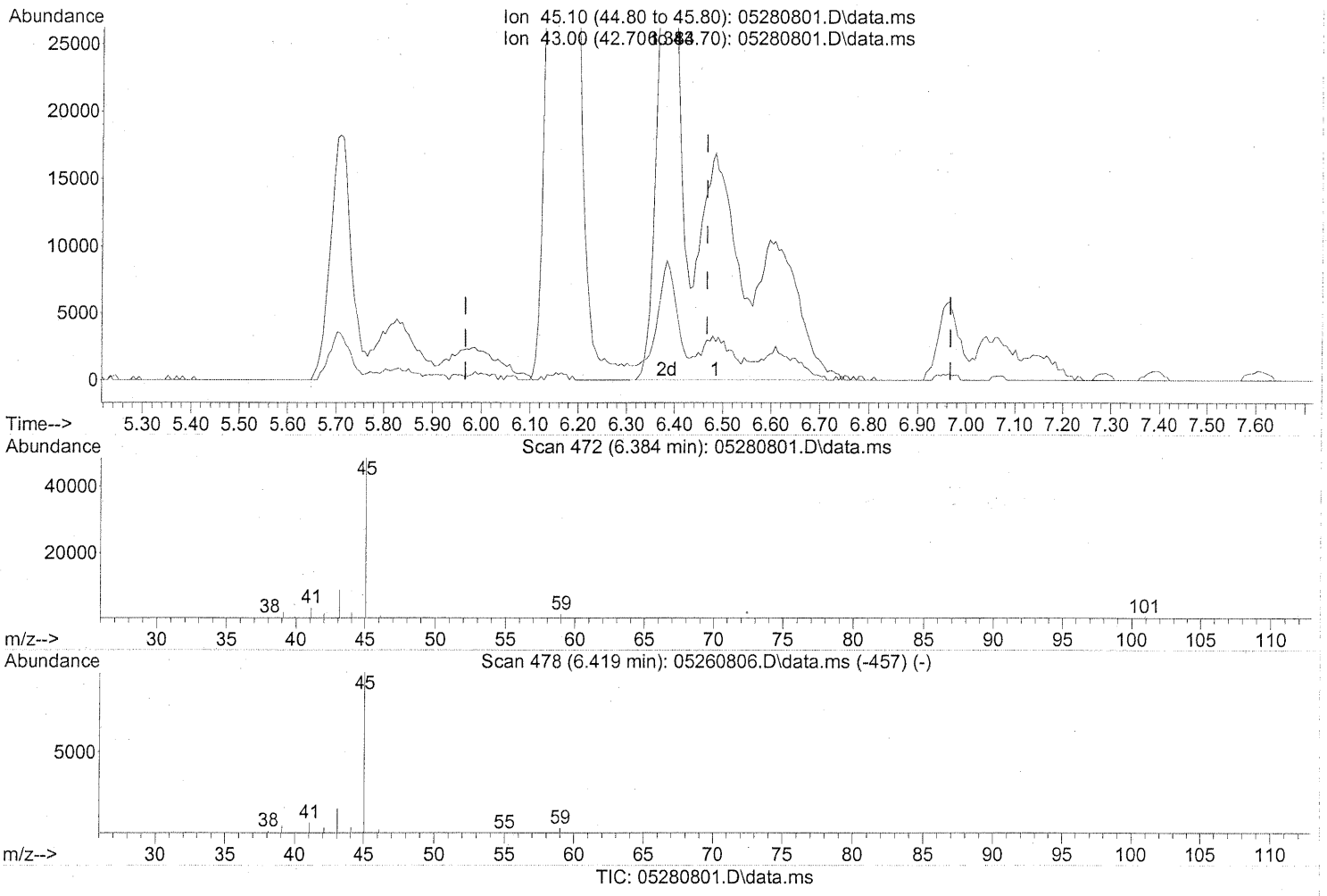
response 84091

split peaks

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	19.43
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



TIC: 05280801.D\data.ms

(15) Isopropanol (T)

6.384min (-0.083) 4.49ng m

response 278161

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	5.87
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks

RSA 5/29/08

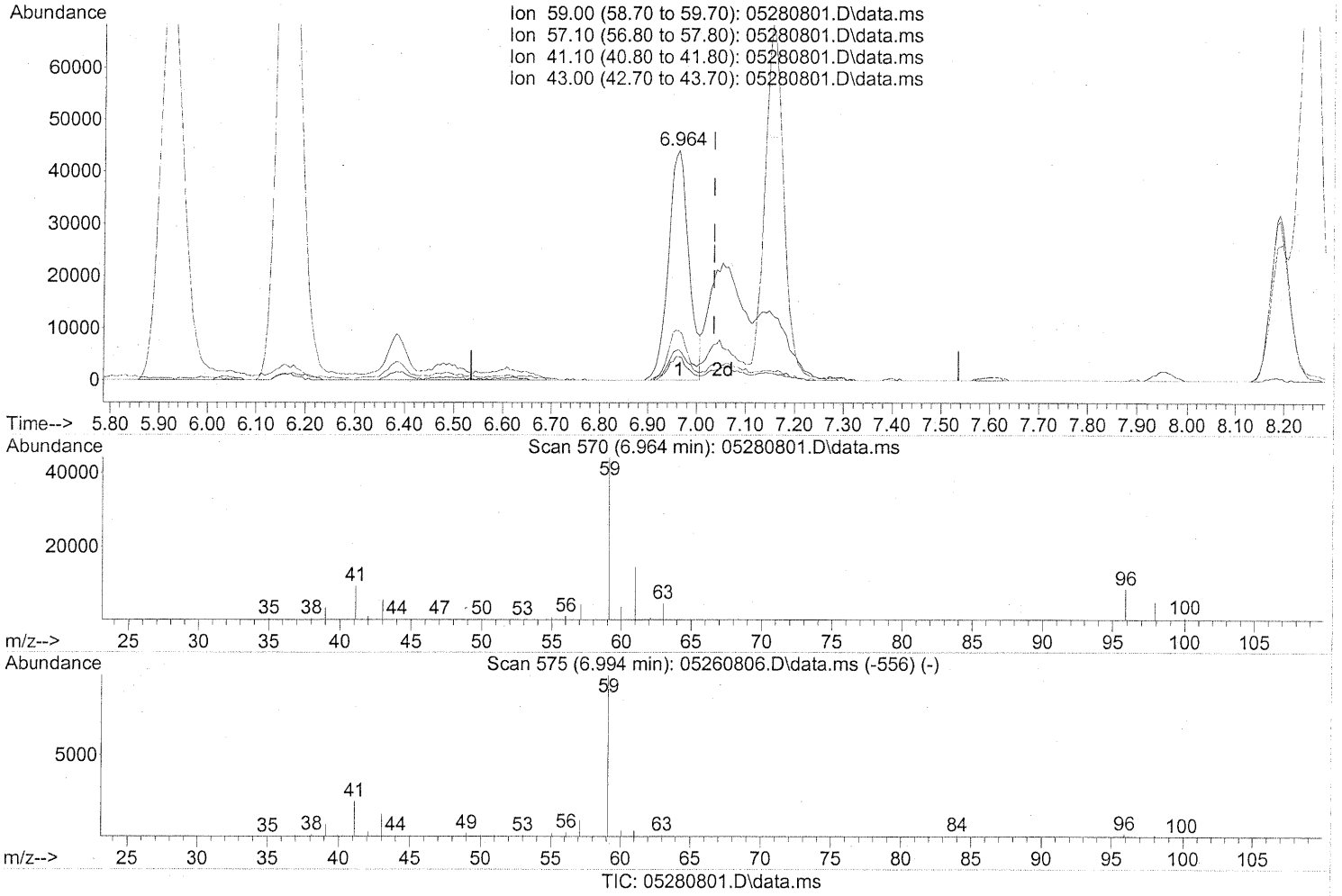
WT 5/29/08

881

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.964min (-0.071) 2.23ng

response 128866

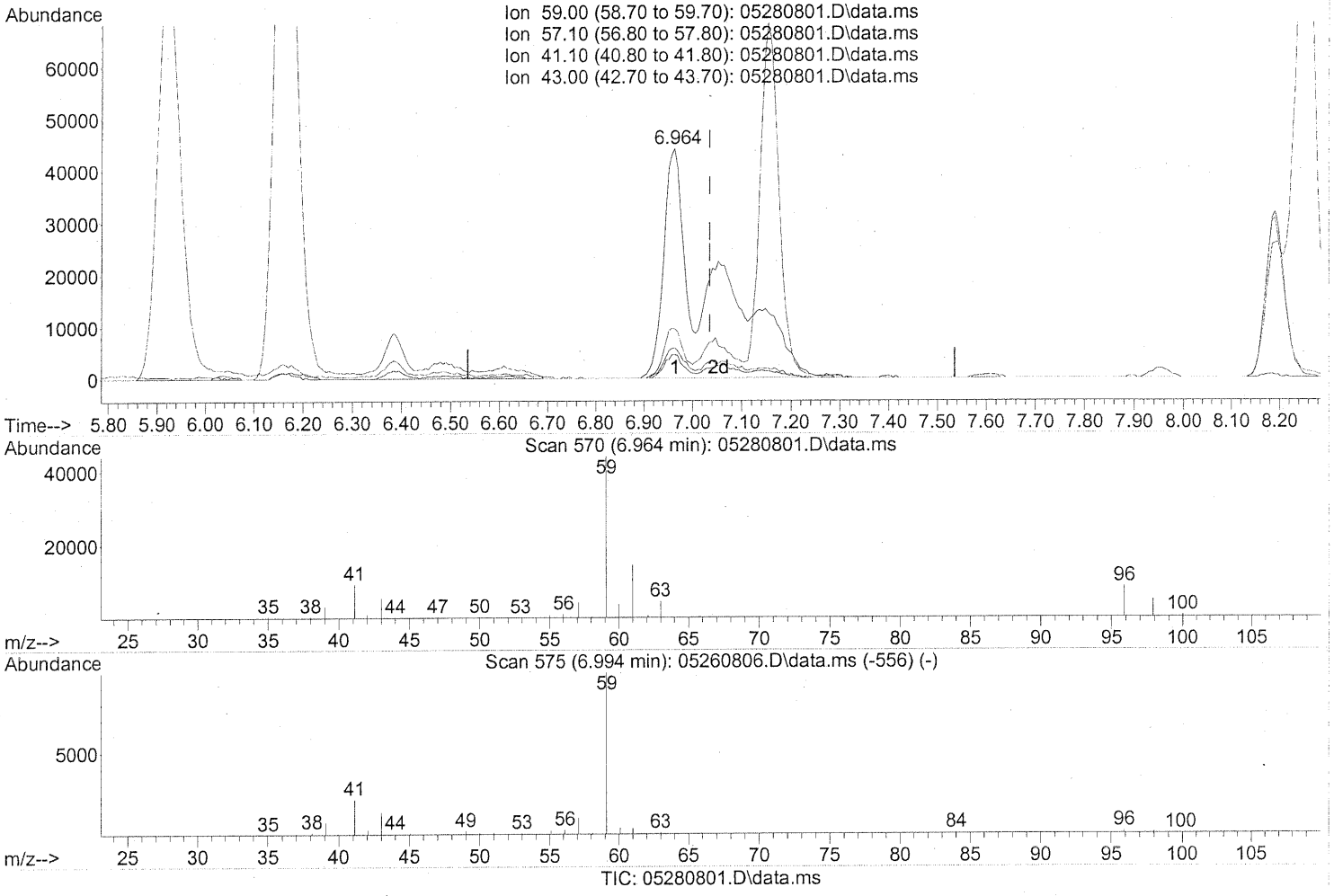
split peaks

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	9.70
41.10	21.90	21.52
43.00	17.20	14.50

882

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 28 09:32:13 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(18) tert-Butanol (T)

6.964min (-0.071) 5.13ng m

response 296303

Ion	Exp%	Act%
59.00	100	100
57.10	10.00	4.22
41.10	21.90	9.36
43.00	17.20	6.31

int. whole peaks

DA 5/29/08

WKJ 5/29/08

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:39 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

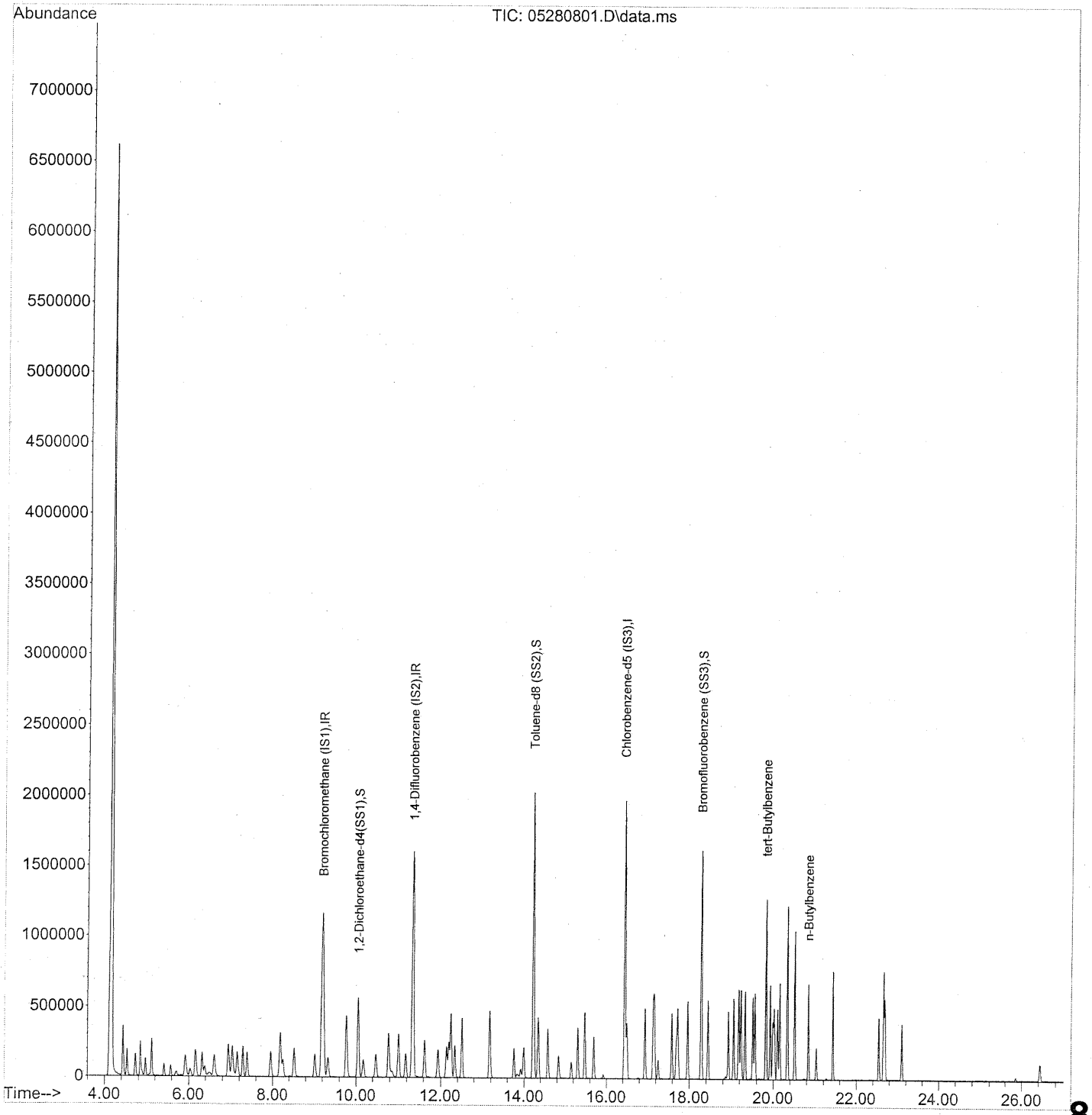
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	99	-0.04
2	S	1,2-Dichloroethane-d4(SS1)	1.430	1.395	2.4	98	-0.04
3	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	97	-0.02
4	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	101	-0.01
5	S	Toluene-d8 (SS2)	2.577	2.485	3.6	98	-0.02
6	S	Bromofluorobenzene (SS3)	0.857	0.894	-4.3	105	0.00
7		tert-Butylbenzene	3.113	2.897	6.9	96	-0.02
8		n-Butylbenzene	2.965	2.716	8.4	95	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:39 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:39 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.20	130	393838	25.000	ng		-0.04
3) 1,4-Difluorobenzene (IS2)	11.36	114	1621199	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	662879	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.05	65	549542	24.403	ng		-0.04
Spiked Amount 25.000			Recovery = 97.60%				
5) Toluene-d8 (SS2)	14.23	98	1647502	24.107	ng		-0.02
Spiked Amount 25.000			Recovery = 96.44%				
6) Bromofluorobenzene (SS3)	18.29	174	592464	26.075	ng		0.00
Spiked Amount 25.000			Recovery = 104.28%				
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	399370	4.839	ng		97
8) n-Butylbenzene	20.84	91	385326	4.901	ng	#	93

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

6/9/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	97	-0.02
2	T	Propene	1.935	1.661	14.2	97	0.00
3	T	Dichlorodifluoromethane	2.341	1.906	18.6	94	-0.01
4	T	Chloromethane	2.941	2.529	14.0	93	-0.01
5	T	Freon 114	1.308	1.126	13.9	95	-0.01
6	T	Vinyl Chloride	1.873	1.558	16.8	95	-0.02
7	T	1,3-Butadiene	1.707	1.524	10.7	97	-0.02
8	T	Bromomethane	0.965	0.829	14.1	96	-0.02
9	T	Chloroethane	0.968	0.784	19.0	93	-0.02
10	T	Ethanol	1.313	1.176	10.4	95	-0.05
11	T	Acetonitrile	3.785	3.246	14.2	94	-0.03
12	T	Acrolein	0.947	0.847	10.6	96	-0.03
13	T	Acetone	1.306	1.041	20.3	95	-0.03
14	T	Trichlorofluoromethane	2.191	1.864	14.9	95	-0.02
15	T	Isopropanol	3.935	3.306	16.0	91	-0.04
16	T	Acrylonitrile	2.374	2.116	10.9	94	-0.04
17	T	1,1-Dichloroethene	1.023	0.884	13.6	94	-0.02
18	T	tert-Butanol	3.669	3.277	10.7	95	-0.04
19	T	Methylene Chloride	1.008	0.844	16.3	93	-0.02
20	T	Allyl Chloride	2.322	2.119	8.7	97	-0.02
21	T	Trichlorotrifluoroethane	1.065	0.906	14.9	95	-0.02
22	T	Carbon Disulfide	4.053	3.553	12.3	94	-0.02
23	T	trans-1,2-Dichloroethene	2.014	1.726	14.3	94	-0.02
24	T	1,1-Dichloroethane	2.139	1.860	13.0	94	-0.03
25	T	Methyl tert-Butyl Ether	3.123	2.670	14.5	95	-0.02
26	T	Vinyl Acetate	0.214	0.197	7.9	99	-0.02
27	T	2-Butanone	0.683	0.583	14.6	94	-0.02
28	T	cis-1,2-Dichloroethene	1.852	1.589	14.2	94	-0.02
29	T	Diisopropyl Ether	0.900	0.785	12.8	94	-0.02
30	T	Ethyl Acetate	0.477	0.426	10.7	95	-0.02
31	T	n-Hexane	2.848	2.414	15.2	94	-0.02
32	T	Chloroform	1.475	1.258	14.7	94	-0.03
33	S	1,2-Dichloroethane-d4(SS1)	1.430	1.424	0.4	98	-0.03
34	T	Tetrahydrofuran	0.642	0.574	10.6	93	-0.02
35	T	Ethyl tert-Butyl Ether	1.317	1.156	12.2	94	-0.02
36	T	1,2-Dichloroethane	1.691	1.462	13.5	95	-0.02
37	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.02
38	T	1,1,1-Trichloroethane	0.426	0.362	15.0	96	-0.02

5Dq/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 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	0.211	0.190	10.0	95	-0.02
40	T	1-Butanol	0.411	0.353	14.1	93	-0.04
41	T	Benzene	1.054	0.823	21.9	94	-0.02
42	T	Carbon Tetrachloride	0.432	0.380	12.0	95	-0.02
43	T	Cyclohexane	0.412	0.324	21.4	94	-0.01
44	T	tert-Amyl Methyl Ether	0.702	0.615	12.4	94	-0.01
45	T	1,2-Dichloropropane	0.311	0.266	14.5	95	-0.02
46	T	Bromodichloromethane	0.310	0.271	12.6	94	-0.02
47	T	Trichloroethene	0.328	0.282	14.0	94	-0.02
48	T	1,4-Dioxane	0.197	0.174	11.7	95	-0.02
49	T	Isooctane	1.685	1.461	13.3	94	-0.01
50	T	Methyl Methacrylate	0.113	0.106	6.2	95	-0.02
51	T	n-Heptane	0.252	0.217	13.9	93	-0.02
52	T	cis-1,3-Dichloropropene	0.392	0.349	11.0	94	-0.01
53	T	4-Methyl-2-pentanone	0.366	0.322	12.0	94	-0.02
54	T	trans-1,3-Dichloropropene	0.362	0.321	11.3	94	-0.02
55	T	1,1,2-Trichloroethane	0.256	0.224	12.5	95	-0.02
56	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	-0.01
57	S	Toluene-d8 (SS2)	2.577	2.486	3.5	98	-0.01
58	T	Toluene	2.924	2.309	21.0	94	-0.01
59	T	2-Hexanone	2.761	2.211	19.9	93	-0.02
60	T	Dibromochloromethane	0.863	0.730	15.4	95	-0.02
61	T	1,2-Dibromoethane	0.803	0.662	17.6	94	-0.02
62	T	Butyl Acetate	2.776	2.341	15.7	93	-0.02
63	T	n-Octane	0.884	0.740	16.3	94	-0.01
64	T	Tetrachloroethene	0.865	0.703	18.7	95	-0.01
65	T	Chlorobenzene	2.083	1.683	19.2	94	-0.01
66	T	Ethylbenzene	3.323	2.716	18.3	94	-0.01
67	T	m- & p-Xylene	2.202	1.779	19.2	94	-0.02
68	T	Bromoform	0.501	0.440	12.2	94	-0.01
69	T	Styrene	2.127	1.806	15.1	94	-0.01
70	T	o-Xylene	2.357	1.903	19.3	94	-0.02
71	T	n-Nonane	2.326	1.913	17.8	94	-0.01
72	T	1,1,2,2-Tetrachloroethane	0.976	0.795	18.5	93	-0.01
73	S	Bromofluorobenzene (SS3)	0.857	0.903	-5.4	104	0.00
74	T	Cumene	3.431	2.835	17.4	94	0.00
75	T	alpha-Pinene	1.610	1.387	13.9	94	0.00
76	T	n-Propylbenzene	3.987	3.315	16.9	94	0.00

888

5/29/08

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

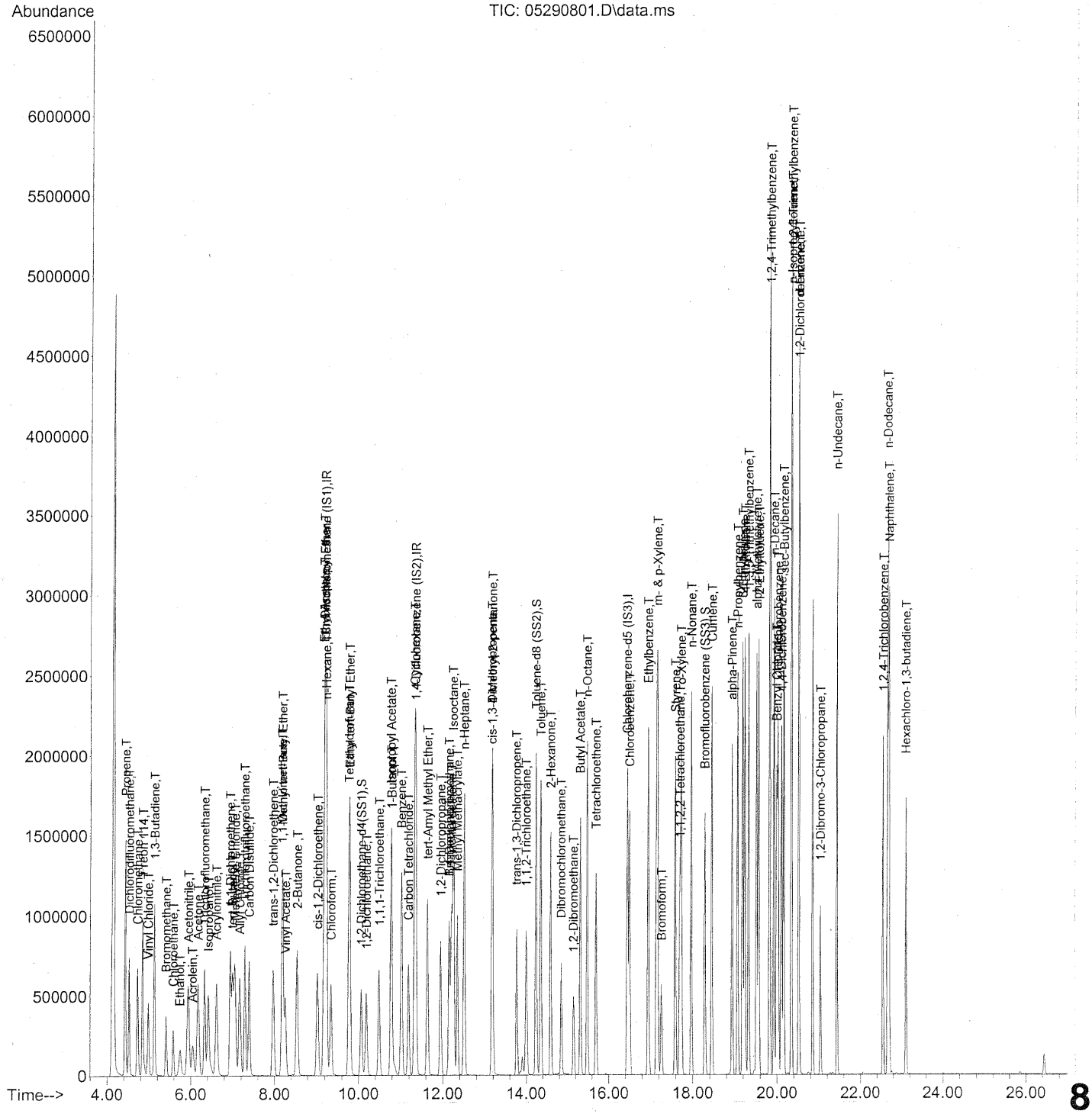
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	T	3-Ethyltoluene	3.764	3.103	17.6	95	-0.01
78	T	4-Ethyltoluene	3.396	2.780	18.1	94	-0.01
79	T	1,3,5-Trimethylbenzene	3.011	2.452	18.6	94	-0.01
80	T	alpha-Methylstyrene	1.693	1.501	11.3	94	-0.02
81	T	2-Ethyltoluene	3.649	3.050	16.4	94	-0.01
82	T	1,2,4-Trimethylbenzene	3.048	2.476	18.8	94	-0.01
83	T	n-Decane	2.158	1.832	15.1	94	-0.01
84	T	Benzyl Chloride	2.355	2.060	12.5	94	-0.02
85	T	1,3-Dichlorobenzene	1.931	1.587	17.8	95	-0.02
86	T	1,4-Dichlorobenzene	1.875	1.537	18.0	94	0.00
87	T	sec-Butylbenzene	3.954	3.312	16.2	94	0.00
88	T	p-Isopropyltoluene	3.455	2.919	15.5	94	-0.01
89	T	1,2,3-Trimethylbenzene	2.927	2.461	15.9	94	-0.01
90	T	1,2-Dichlorobenzene	1.773	1.455	17.9	94	-0.01
91	T	d-Limonene	0.939	0.824	12.2	94	0.00
92	T	1,2-Dibromo-3-Chloropropane	0.570	0.521	8.6	94	-0.01
93	T	n-Undecane	2.263	1.965	13.2	93	0.00
94	T	1,2,4-Trichlorobenzene	0.321	0.277	13.7	93	0.00
95	T	Naphthalene	4.428	3.919	11.5	94	-0.01
96	T	n-Dodecane	2.205	1.976	10.4	93	0.00
97	T	Hexachloro-1,3-butadiene	0.533	0.452	15.2	94	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	383231	25.000	ng		-0.02
37) 1,4-Difluorobenzene (IS2)	11.36	114	1598146	25.000	ng		-0.02
56) Chlorobenzene-d5 (IS3)	16.45	82	654560	25.000	ng		-0.01
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4(...	10.06	65	545847	24.909	ng		-0.03
Spiked Amount 25.000			Recovery =	99.64%			
57) Toluene-d8 (SS2)	14.24	98	1627294	24.114	ng		-0.01
Spiked Amount 25.000			Recovery =	96.44%			
73) Bromofluorobenzene (SS3)	18.29	174	590823	26.333	ng		0.00
Spiked Amount 25.000			Recovery =	105.32%			
Target Compounds							Qvalue
2) Propene	4.43	42	687469	23.174	ng		93
3) Dichlorodifluoromethane	4.53	85	759821	21.176	ng		98
4) Chloromethane	4.73	50	988637	21.929	ng		99
5) Freon 114	4.85	135	462612	23.068	ng		97
6) Vinyl Chloride	4.97	62	616225	21.463	ng		94
7) 1,3-Butadiene	5.12	54	637915	24.376	ng	#	85
8) Bromomethane	5.41	94	334076	22.573	ng		99
9) Chloroethane	5.58	64	316006	21.299	ng		95
10) Ethanol	5.74	45	411179m	20.428	ng		
11) Acetonitrile	5.95	41	1218994	21.010	ng		97
12) Acrolein	6.05	56	311741	21.480	ng		100
13) Acetone	6.18	58	443448	22.145	ng	#	78
14) Trichlorofluoromethane	6.33	101	742859	22.115	ng		100
15) Isopropanol	6.43	45	1307387m	21.675	ng		
16) Acrylonitrile	6.62	53	820680	22.548	ng		97
17) 1,1-Dichloroethene	6.94	96	383485	24.465	ng		92
18) tert-Butanol	6.99	59	1281030	22.779	ng		95
19) Methylene Chloride	7.05	84	362438	23.467	ng	#	40
20) Allyl Chloride	7.17	41	854223	23.994	ng		81
21) Trichlorotrifluoroethane	7.29	151	395904	24.256	ng		85
22) Carbon Disulfide	7.40	76	1361777	21.921	ng		100
23) trans-1,2-Dichloroethene	7.97	61	727728	23.571	ng		93
24) 1,1-Dichloroethane	8.18	63	792749	24.180	ng		94
25) Methyl tert-Butyl Ether	8.20	73	1137616	23.766	ng		79
26) Vinyl Acetate	8.27	86	73915	22.538	ng	#	32
27) 2-Butanone	8.55	72	250124	23.891	ng	#	16
28) cis-1,2-Dichloroethene	9.04	61	677286	23.853	ng		94
29) Diisopropyl Ether	9.20	87	310527	22.518	ng	#	31
30) Ethyl Acetate	9.19	61	207641	28.426	ng		85
31) n-Hexane	9.24	57	1035941	23.727	ng		92

JDH 5/29/08

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) Chloroform	9.35	83	622711	27.536	ng		95
34) Tetrahydrofuran	9.77	72	244547	24.851	ng	#	46
35) Ethyl tert-Butyl Ether	9.79	87	465973	23.086	ng	#	76
36) 1,2-Dichloroethane	10.19	62	616173	23.765	ng		96
38) 1,1,1-Trichloroethane	10.50	97	636723	23.401	ng		93
39) Isopropyl Acetate	10.78	61	307861	22.784	ng	#	67
40) 1-Butanol	10.79	56	514453	19.558	ng		99
41) Benzene	11.02	78	1446523	21.467	ng		99
42) Carbon Tetrachloride	11.19	117	650173	23.525	ng		99
43) Cyclohexane	11.34	84	575655	21.851	ng	#	45
44) tert-Amyl Methyl Ether	11.64	73	1022680	22.794	ng		77
45) 1,2-Dichloropropane	11.95	63	464677	23.353	ng		97
46) Bromodichloromethane	12.15	83	498271	25.157	ng		93
47) Trichloroethene	12.21	130	513118	24.465	ng		99
48) 1,4-Dioxane	12.15	88	320179	25.436	ng	#	68
49) Isooctane	12.26	57	2429063	22.549	ng		92
50) Methyl Methacrylate	12.35	100	179726	24.860	ng	#	69
51) n-Heptane	12.52	71	385033	23.939	ng	#	49
52) cis-1,3-Dichloropropene	13.17	75	579364	23.102	ng		99
53) 4-Methyl-2-pentanone	13.19	58	541832	23.128	ng		85
54) trans-1,3-Dichloropropene	13.77	75	595565	25.763	ng		98
55) 1,1,2-Trichloroethane	14.00	97	390166	23.807	ng		88
58) Toluene	14.35	91	1662567	21.720	ng		98
59) 2-Hexanone	14.59	43	1476427	20.423	ng		99
60) Dibromochloromethane	14.85	129	531570	23.532	ng		100
61) 1,2-Dibromoethane	15.15	107	473164	22.515	ng		98
62) Butyl Acetate	15.31	43	1611959	22.176	ng		92
63) n-Octane	15.48	57	503609	21.758	ng		95
64) Tetrachloroethene	15.70	166	502662	22.201	ng		99
65) Chlorobenzene	16.50	112	1212003	22.220	ng		100
66) Ethylbenzene	16.94	91	1920277	22.070	ng		93
67) m- & p-Xylene	17.16	91	3004438	52.118	ng		92
68) Bromoform	17.26	173	377830	28.810	ng		100
69) Styrene	17.59	104	1276890	22.929	ng		94
70) o-Xylene	17.73	91	1520018	24.635	ng		93
71) n-Nonane	17.97	43	1292077	21.220	ng		94
72) 1,1,2,2-Tetrachloroethane	17.70	83	641207	25.096	ng		93
74) Cumene	18.45	105	2004012	22.310	ng		94
75) alpha-Pinene	18.93	93	962409	22.836	ng		92
76) n-Propylbenzene	19.07	91	2282842	21.870	ng		92
77) 3-Ethyltoluene	19.19	105	2071534	21.022	ng		94
78) 4-Ethyltoluene	19.24	105	2023265	22.757	ng		94
79) 1,3,5-Trimethylbenzene	19.33	105	1733282	21.989	ng		91

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

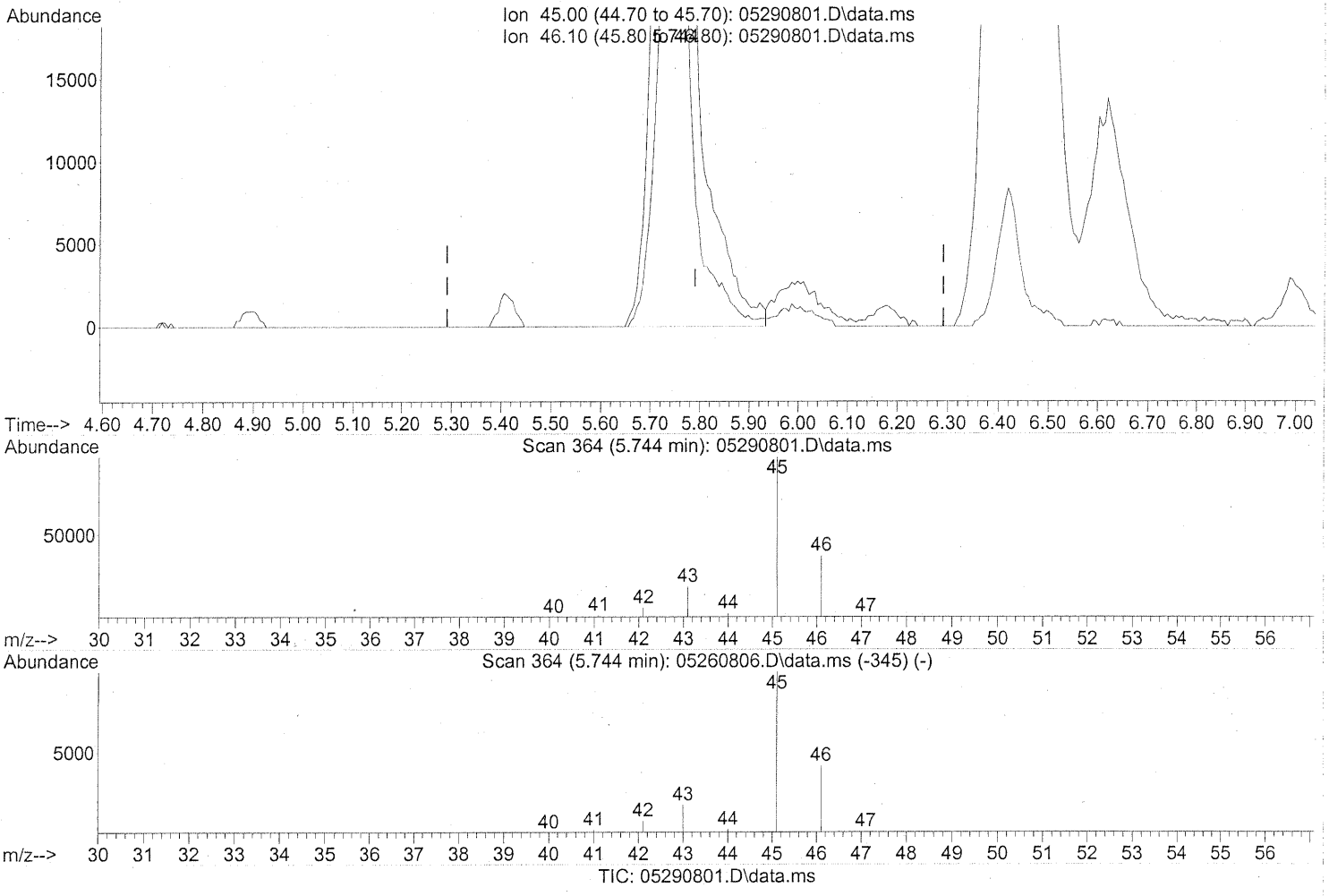
Quant Time: May 29 09:58:34 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
80) alpha-Methylstyrene	19.51	118	1002152	22.610	ng		97
81) 2-Ethyltoluene	19.57	105	1980702	20.730	ng		93
82) 1,2,4-Trimethylbenzene	19.83	105	1782483	22.335	ng		92
83) n-Decane	19.93	57	1246950	22.071	ng		80
84) Benzyl Chloride	19.99	91	1445266	23.439	ng		89
85) 1,3-Dichlorobenzene	20.02	146	1100951	21.773	ng		99
86) 1,4-Dichlorobenzene	20.11	146	1106921	22.550	ng		98
87) sec-Butylbenzene	20.16	105	2324239	22.449	ng		95
88) p-Isopropyltoluene	20.34	119	2254700	24.927	ng		93
89) 1,2,3-Trimethylbenzene	20.35	105	1772160	23.128	ng		88
90) 1,2-Dichlorobenzene	20.52	146	1028515	22.158	ng		100
91) d-Limonene	20.52	68	571663	23.245	ng		88
92) 1,2-Dibromo-3-Chloropr...	21.04	157	354510	23.761	ng		82
93) n-Undecane	21.43	57	1353379	22.841	ng		78
94) 1,2,4-Trichlorobenzene	22.55	184	202790	24.152	ng	#	85
95) Naphthalene	22.69	128	2698867	23.277	ng		99
96) n-Dodecane	22.66	57	1370744	23.743	ng		77
97) Hexachloro-1,3-butadiene	23.11	225	328985	23.583	ng		100

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

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:56:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.744min (-0.047) 19.61ng

response 394799

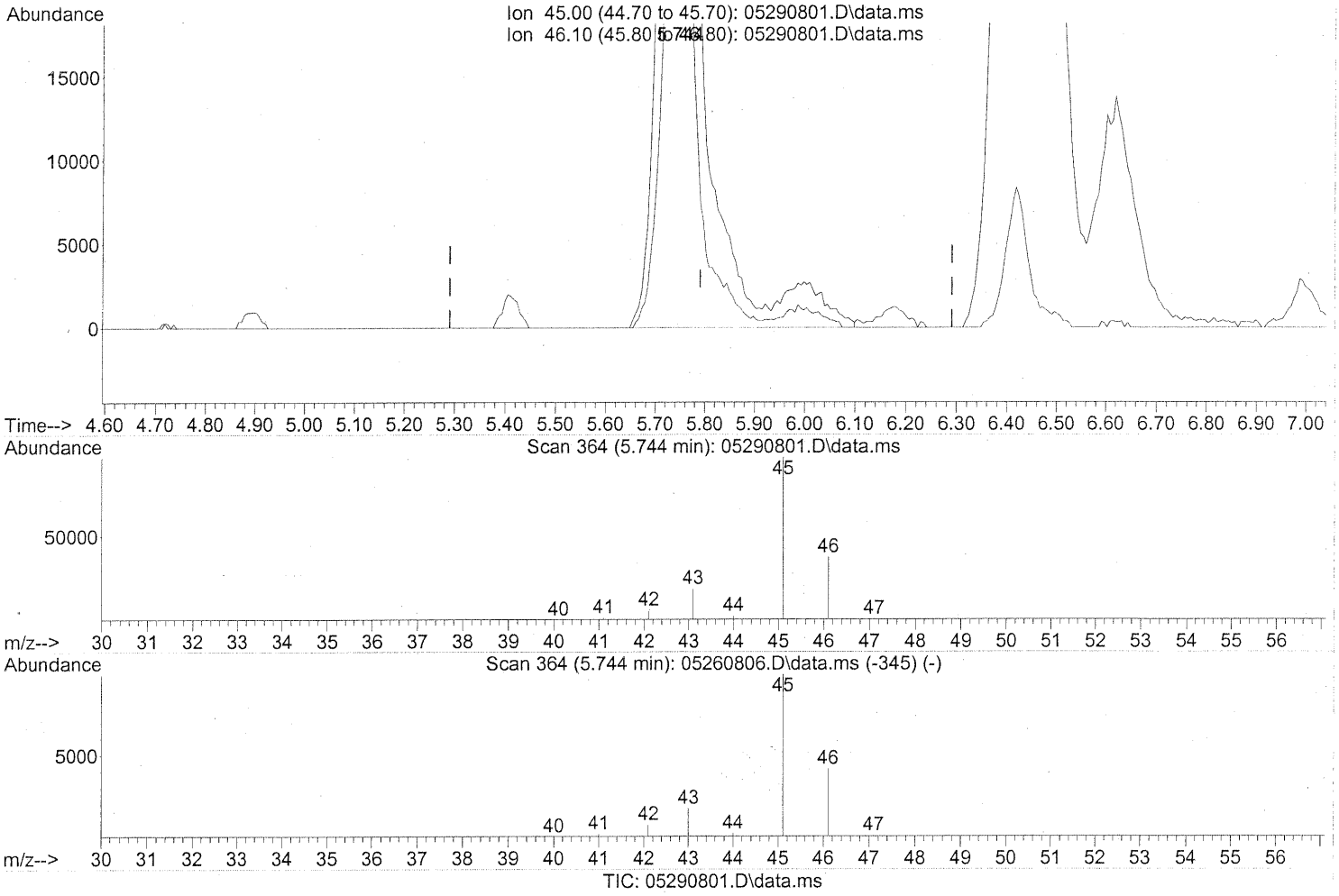
split peaks

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	40.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:56:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(10) Ethanol (T)

5.744min (-0.047) 20.43ng m

response 411179

Ion	Exp%	Act%
45.00	100	100
46.10	37.00	38.52
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
MDH 5/29/08

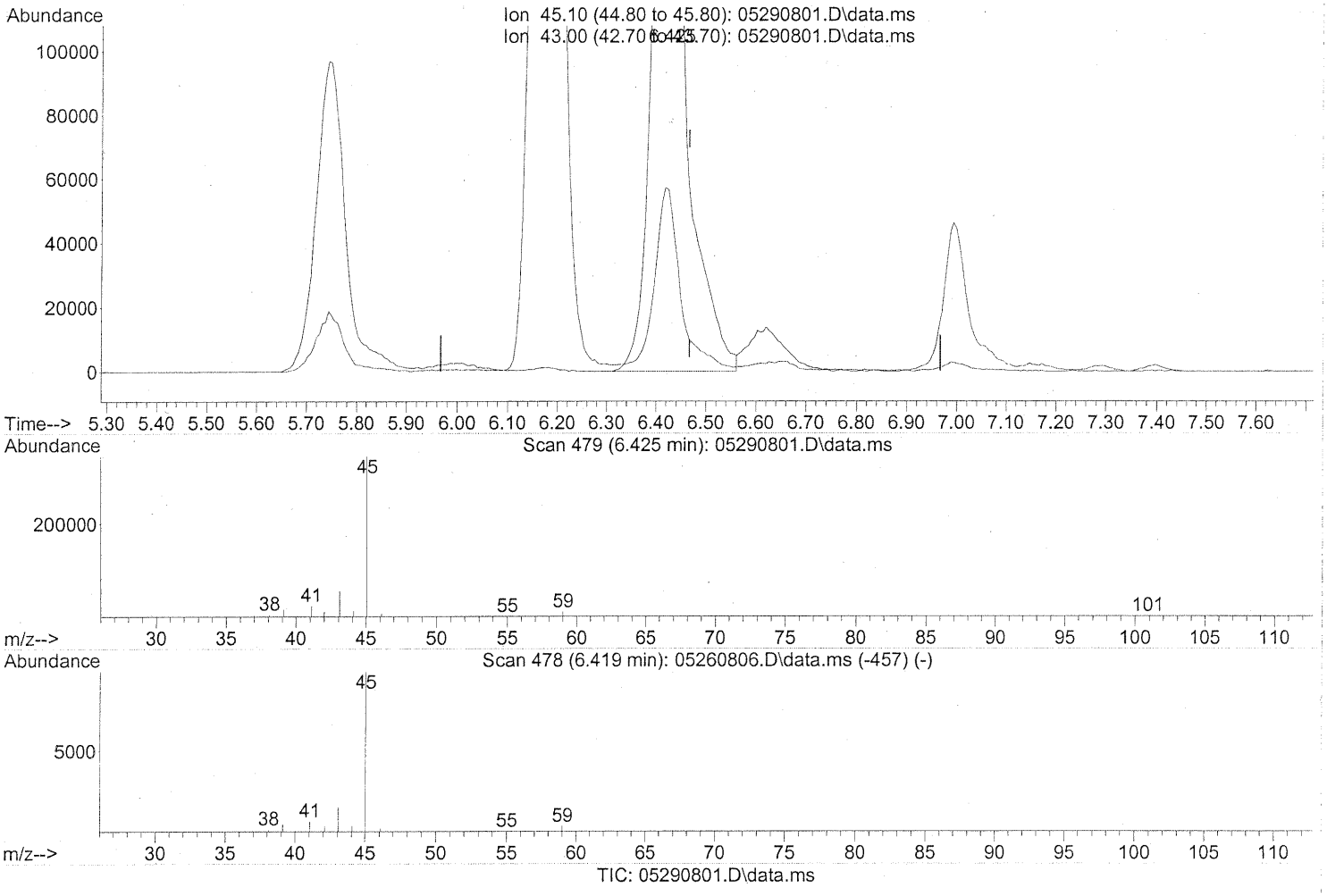
LA 5/29/08

895

Quantitation Report (Qedit)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:56:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.425min (-0.042) 20.52ng

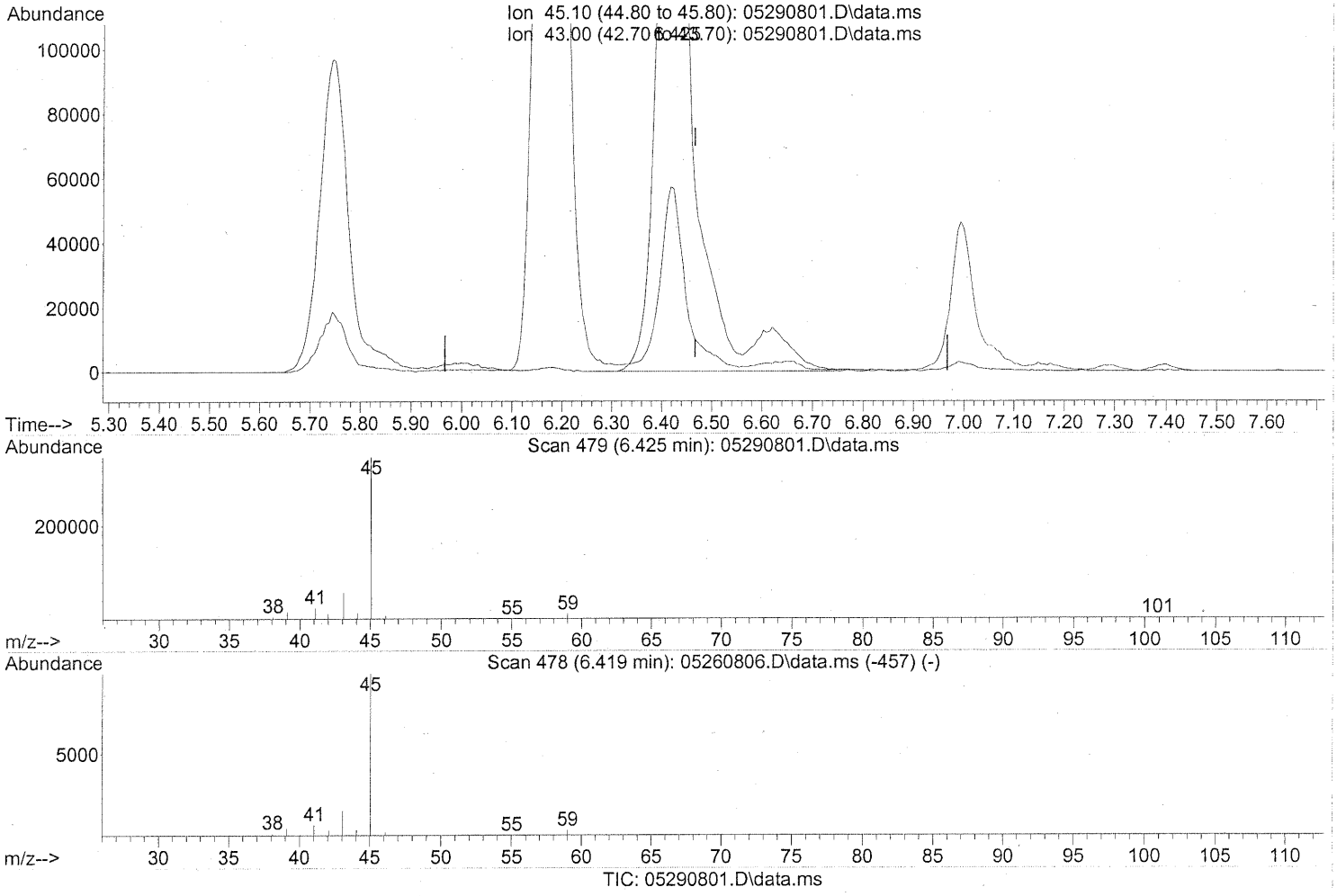
response 1237488

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	16.87
0.00	0.00	0.00
0.00	0.00	0.00

split peaks

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 29 09:56:56 2008
Quant Method : J:\MS16\METHODS\R16052608.M
Quant Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
QLast Update : Tue May 27 08:50:43 2008
Response via : Initial Calibration



(15) Isopropanol (T)

6.425min (-0.042) 21.67ng m

response 1307387

Ion	Exp%	Act%
45.10	100	100
43.00	19.40	15.97
0.00	0.00	0.00
0.00	0.00	0.00

int. whole peaks
JDA 5/29/08

WA 5/29/08

Evaluate Continuing Calibration Report

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:53 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

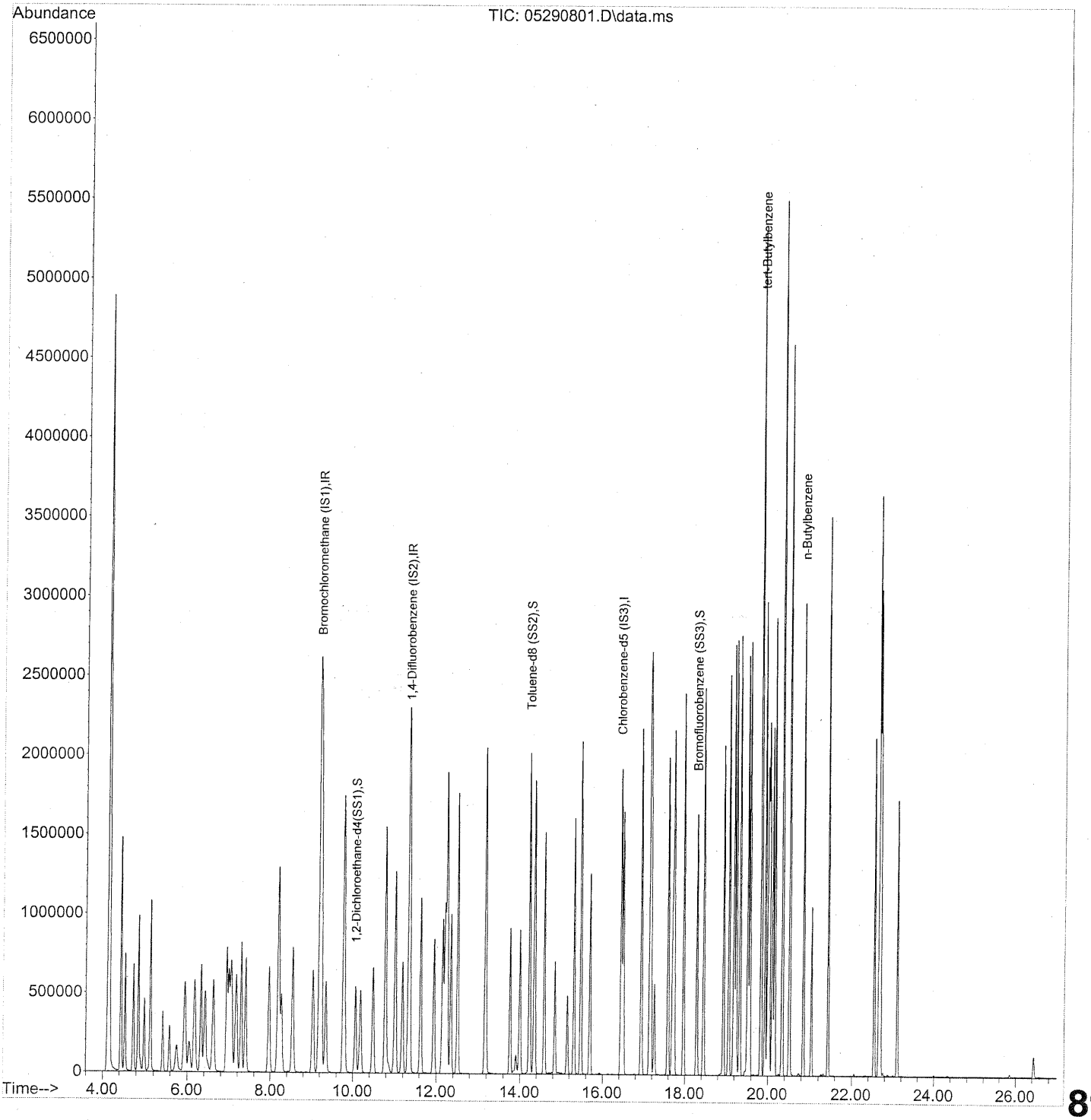
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	IR	Bromochloromethane (IS1)	1.000	1.000	0.0	97	-0.02
2	S	1,2-Dichloroethane-d4(SS1)	1.430	1.424	0.4	98	-0.03
3	IR	1,4-Difluorobenzene (IS2)	1.000	1.000	0.0	98	-0.02
4	I	Chlorobenzene-d5 (IS3)	1.000	1.000	0.0	100	-0.01
5	S	Toluene-d8 (SS2)	2.577	2.486	3.5	98	-0.01
6	S	Bromofluorobenzene (SS3)	0.857	0.903	-5.4	104	0.00
7		tert-Butylbenzene	3.113	2.576	17.3	94	-0.01
8		n-Butylbenzene	2.965	2.493	15.9	95	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:53 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 04 14:39:53 2008
Quant Method : J:\MS16\METHODS\S16052608.M
Quant Title : TO-15 Tekmar AutoCan/HP 6890/HP 5975 MSD
QLast Update : Wed Jun 04 14:30:18 2008
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane (IS1)	9.22	130	383231	25.000	ng		-0.02
3) 1,4-Difluorobenzene (IS2)	11.36	114	1598146	25.000	ng		-0.02
4) Chlorobenzene-d5 (IS3)	16.45	82	654560	25.000	ng		-0.01
System Monitoring Compounds							
2) 1,2-Dichloroethane-d4(...	10.06	65	545847	24.909	ng		-0.03
Spiked Amount 25.000			Recovery =	99.64%			
5) Toluene-d8 (SS2)	14.24	98	1627294	24.114	ng		-0.01
Spiked Amount 25.000			Recovery =	96.44%			
6) Bromofluorobenzene (SS3)	18.29	174	590823	26.333	ng		0.00
Spiked Amount 25.000			Recovery =	105.32%			
Target Compounds							Qvalue
7) tert-Butylbenzene	19.83	119	1753392	21.514	ng		97
8) n-Butylbenzene	20.84	91	1749570	22.536	ng	#	94

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

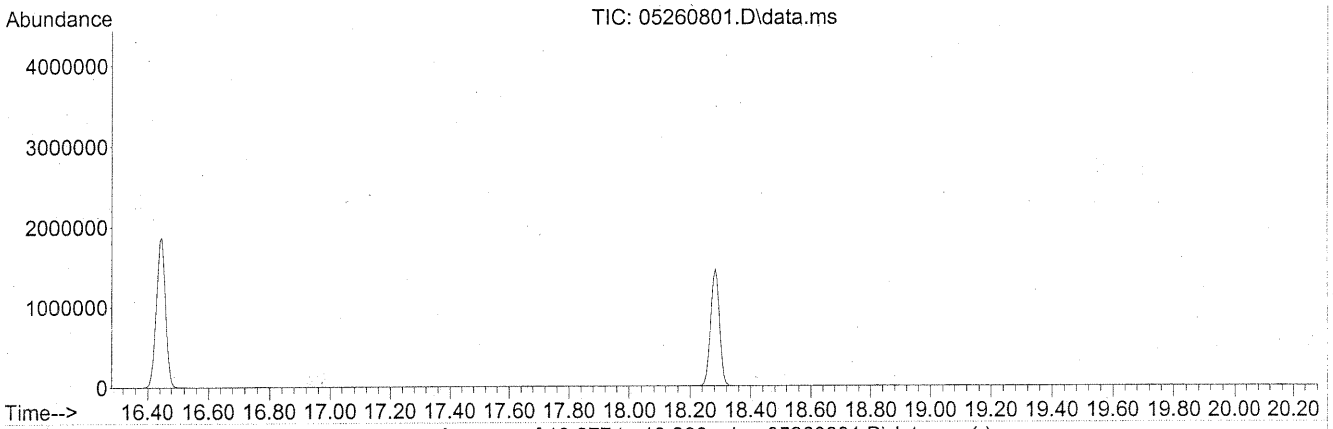
900

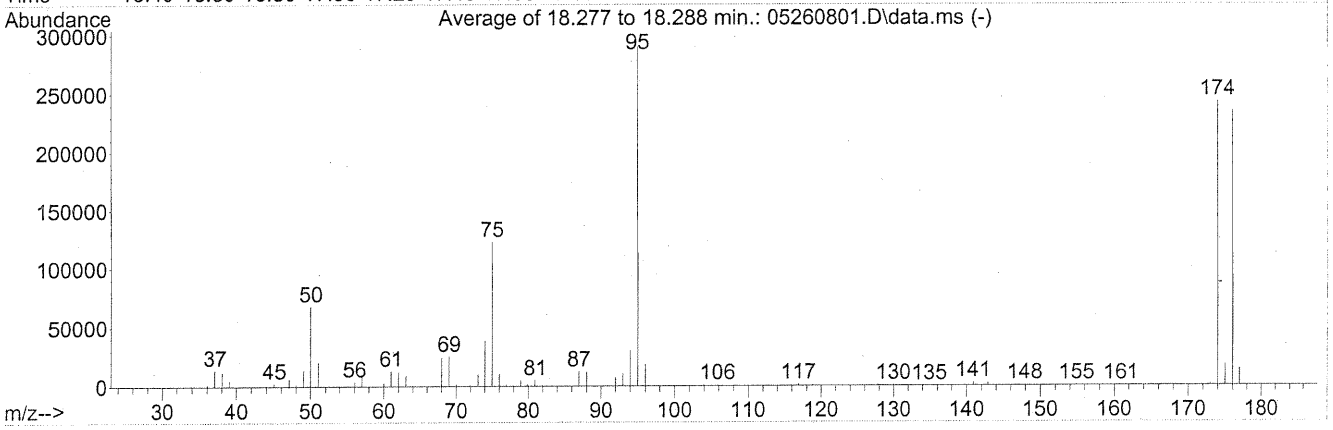
BFB TUNING & MASS CALIBRATIONS

Data Path : J:\MS16\DATA\2008_05\26\
Data File : 05260801.D
Acq On : 26 May 2008 3:58 pm
Operator : WA
Sample : 25ng BFB Tune
Misc : S20-05120801
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:50:43 2008





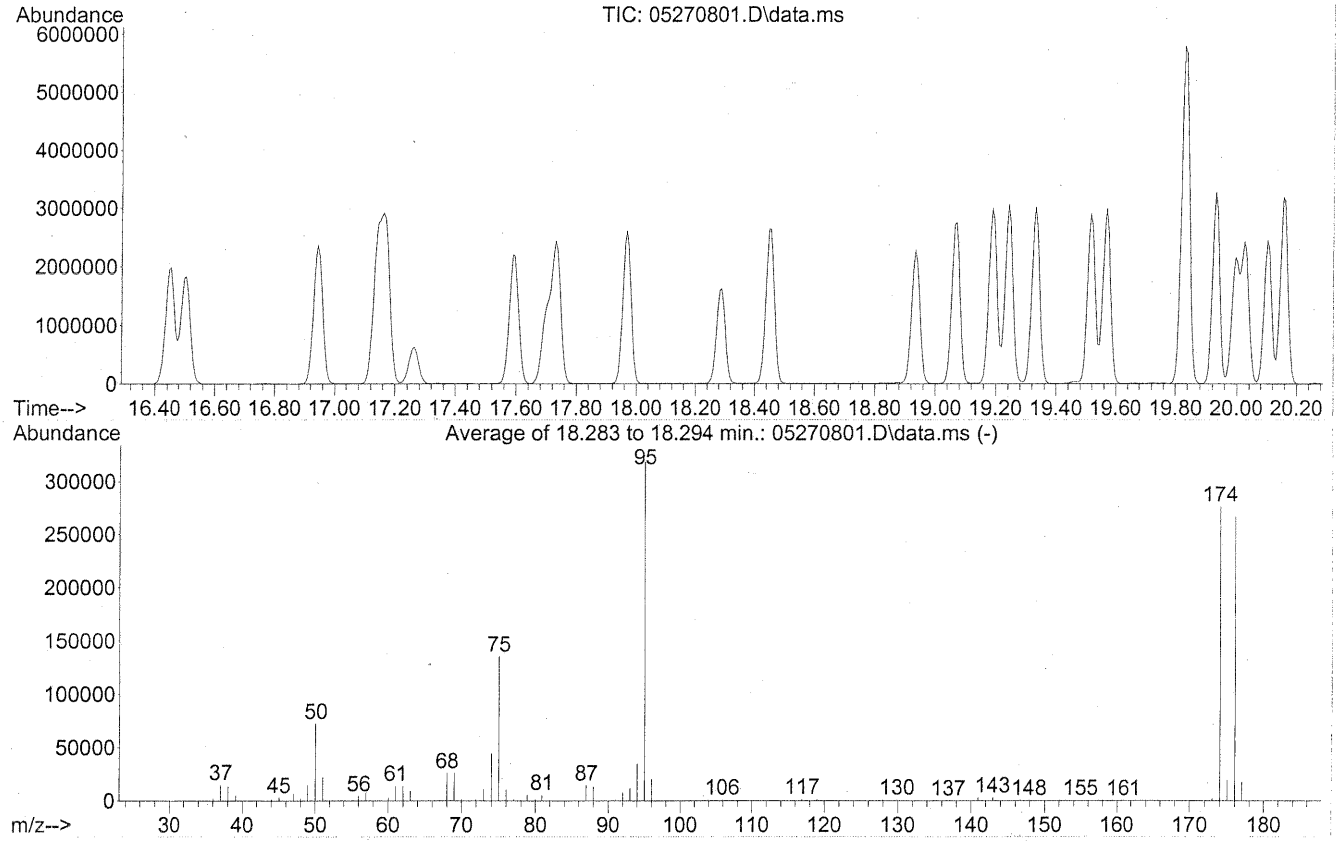
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2469

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.5	68147	PASS
75	95	30	66	42.6	123432	PASS
95	95	100	100	100.0	289984	PASS
96	95	5	9	6.5	18763	PASS
173	174	0.00	2	0.8	2059	PASS
174	95	50	120	83.9	243179	PASS
175	174	4	9	7.4	18091	PASS
176	174	93	101	96.6	234901	PASS
177	176	5	9	6.2	14675	PASS

Data Path : J:\MS16\DATA\2008_05\27\
Data File : 05270801.D
Acq On : 27 May 2008 10:18 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210802
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:50:43 2008



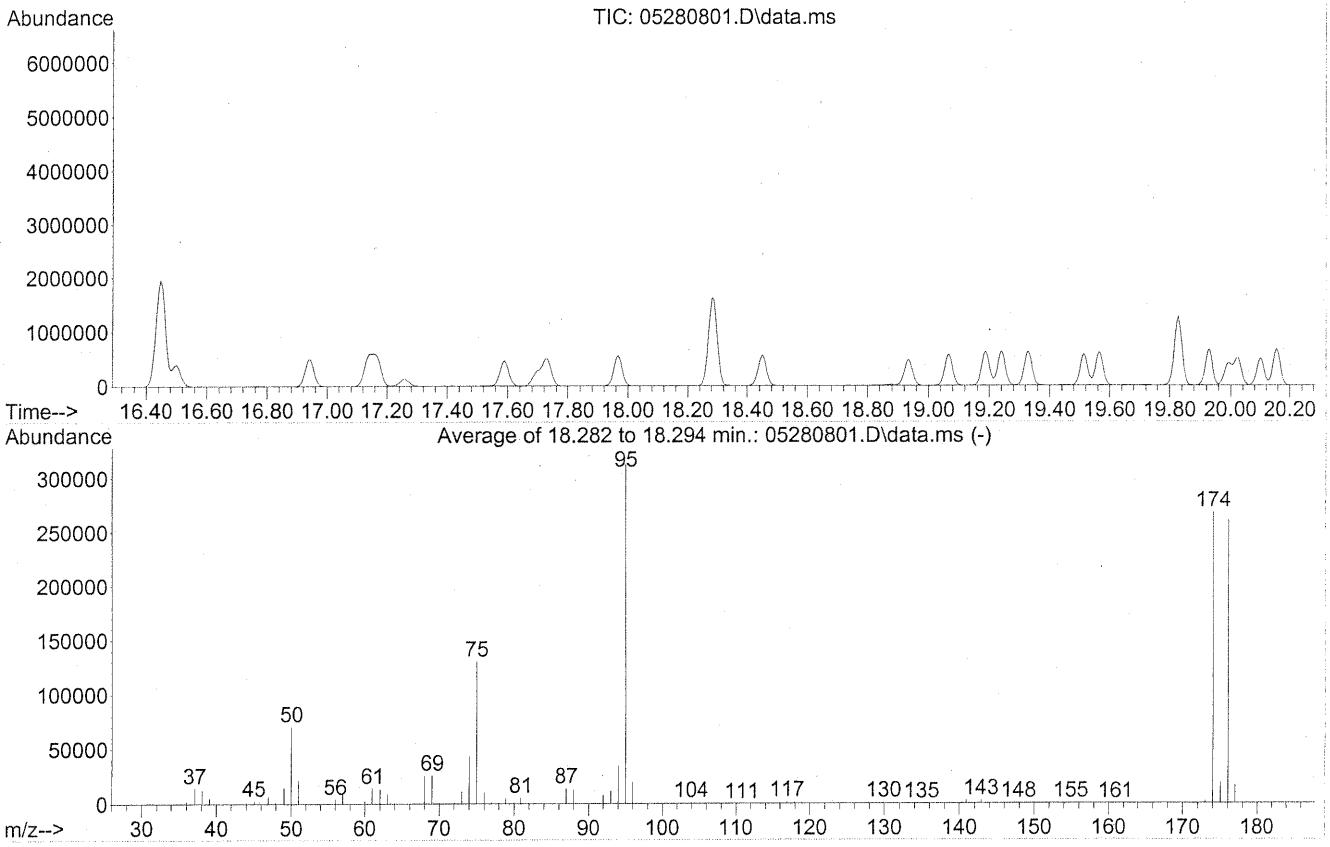
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.8	72669	PASS
75	95	30	66	42.5	135389	PASS
95	95	100	100	100.0	318891	PASS
96	95	5	9	6.5	20685	PASS
173	174	0.00	2	0.8	2302	PASS
174	95	50	120	86.8	276821	PASS
175	174	4	9	7.1	19755	PASS
176	174	93	101	96.5	267029	PASS
177	176	5	9	6.6	17677	PASS

Data Path : J:\MS16\DATA\2008_05\28\
Data File : 05280801.D
Acq On : 28 May 2008 8:29 am
Operator : WA
Sample : 5ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:50:43 2008



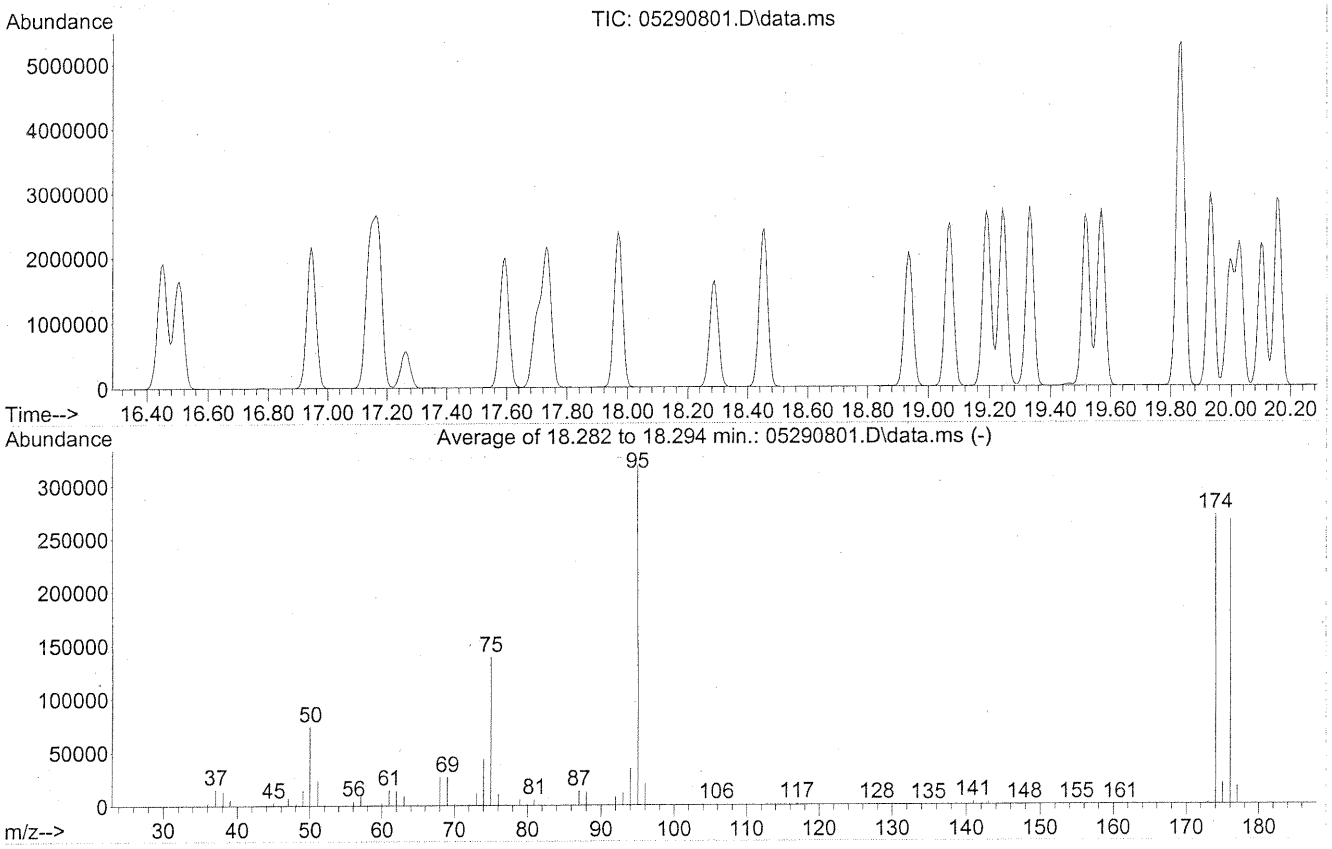
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.7	71045	PASS
75	95	30	66	41.7	130461	PASS
95	95	100	100	100.0	312661	PASS
96	95	5	9	6.3	19791	PASS
173	174	0.00	2	0.9	2304	PASS
174	95	50	120	85.8	268181	PASS
175	174	4	9	7.1	19056	PASS
176	174	93	101	97.3	260949	PASS
177	176	5	9	6.6	17105	PASS

Data Path : J:\MS16\DATA\2008_05\29\
Data File : 05290801.D
Acq On : 29 May 2008 8:31 am
Operator : WA
Sample : 25ng TO-15 CCV STD
Misc : S20-05120801/S20-05210808
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : J:\MS16\METHODS\R16052608.M
Title : EPA TO-15 per SOP VOA-TO15 (CASS TO-15/GC-MS)
Last Update : Tue May 27 08:50:43 2008



AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2470

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	74363	PASS
75	95	30	66	43.6	139123	PASS
95	95	100	100	100.0	318848	PASS
96	95	5	9	6.3	20203	PASS
173	174	0.00	2	0.8	2071	PASS
174	95	50	120	85.3	271915	PASS
175	174	4	9	7.4	20013	PASS
176	174	93	101	98.4	267669	PASS
177	176	5	9	6.4	17219	PASS

RUN LOGS

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/26/08 15:58	05260801.D	25ng BFB Tune	S20-05120801	WA	1	Pass
2	05/26/08 16:36	05260802.D	0.1ng TO-15 ICAL STD	S20-05120801/S20-05210811	WA	16	Good ICAL ?
3	05/26/08 17:14	05260803.D	0.5ng TO-15 ICAL STD	S20-05120801/S20-05210808	WA	1	0.5ng -7 100 ng except
4	05/26/08 17:51	05260804.D	1.0ng TO-15 ICAL STD	S20-05120801/S20-05210808	WA	1	Acetonitrile, Acrolein, IPA VA, CS_2, EA, H. Methacry
5	05/26/08 18:36	05260805.D	5.0ng TO-15 ICAL STD	S20-05120801/S20-05210808	WA	1	0.5 -7 100ng
6	05/26/08 19:14	05260806.D	25ng TO-15 ICAL STD	S20-05120801/S20-05210802	WA	1	Acetone 1.0ng -7 100ng
7	05/26/08 19:52	05260807.D	50ng TO-15 ICAL STD	S20-05120801/S20-05210802	WA	1	
8	05/26/08 20:30	05260808.D	100ng TO-15 ICAL STD	S20-05120801/S20-05210802	WA	1	
9	05/26/08 21:07	05260809.D	25ng TO-15 ICV STD	S20-05120801/S20-05220808	WA	3	failed, bad Std
10	05/27/08 9:24	05260810.D	25ng TO-15 ICV STD	S20-05120801/S20-05220809	WA	2	Passed all Cmpds

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/27/08 10:18	05270801.D	25ng TO-15 CCV STD	S20-05120801/S20-05210802	WA	1	
2	05/27/08 10:56	05270802.D	0.5ng RL STD	S20-05120801/S20-05210808	WA	1	
3	05/27/08 11:44	05270803.D	TO-15 Method Blank	S20-05120801	WA	1	
4	05/27/08 12:22	05270804.D	25ng TO-15 LCS STD	S20-05120801/S20-05220809	WA	2	
5	05/27/08 13:35	05270805.D	25ng TO-15 LCSD STD	S20-05120801/S20-05220809	WA	2	
6	05/27/08 15:43	05270806.D	P0801507-001 (10ml)	ENSR SG77B-05 (-3.0, 3.5)	WA	4	
7	05/27/08 16:33	05270807.D	P0801507-001 (10ml)	ENSR SG77B-05 (-3.0, 3.5)	WA	4	
8	05/27/08 17:18	05270808.D	P0801507-001 Dil (2ml)	ENSR SG77B-05 (-3.0, 3.5)	WA	1	
9	05/27/08 17:56	05270809.D	P0801507-002 (25ml)	ENSR SG30B-05 (-3.0, 3.5)	WA	13	
10	05/27/08 18:34	05270810.D	P0801507-004 (20ml)	ENSR SG59B-05 (-4.2, 3.5)	WA	7	
11	05/27/08 19:12	05270811.D	P0801507-005 Dil (20ml)	ENSR SG31B-05 (-3.2, 3.5)	WA	3	
12	05/27/08 19:49	05270812.D	P0801507-008 (50ml)	ENSR SG56B-05 (-3.8, 3.5)	WA	4	
13	05/27/08 20:27	05270813.D	P0801507-008 Dup (50ml)	ENSR SG56B-05 (-3.8, 3.5)	WA	4	
14	05/27/08 21:04	05270814.D	P0801507-009 (~~50~~ 20ml) Dil	ENSR SG56B-05D (-3.8, 3.5)	WA	5	
15	05/27/08 21:42	05270815.D	P0801507-010 (25ml)	ENSR SG55B-05 (-3.8, 3.8)	WA	6	
16	05/27/08 22:19	05270816.D	P0801507-011 (20ml)	ENSR SG57B-05 (-3.3, 3.6)	WA	8	
17	05/27/08 22:57	05270817.D	P0801507-012 (250ml)	ENSR SG13B-05 (-3.3, 3.6)	WA	9	
18	05/27/08 23:35	05270818.D	P0801507-013 (500ml)	ENSR SG15B-05 (-3.5, 3.5)	WA	10	
19	05/28/08 0:18	05270819.D	P0801507-014 (1000ml)	ENSR SG14B-05 (-3.5, 3.6)	WA	11	
20	05/28/08 1:01	05270820.D	P0801507-015 (1000ml)	ENSR SG06B-05 (-2.9, 3.5)	WA	12	
21	05/28/08 1:39	05270821.D	P0801507-008 Dil (20ml)	ENSR SG56B-05 (-3.8, 3.5)	WA	4	
22	05/28/08 2:17	05270822.D	P0801507-008 Dup Dil (20ml)	ENSR SG56B-05 (-3.8, 3.5)	WA	4	
23	05/28/08 5:10	05270823.D	P0801507-012 Dil (50ml)	ENSR SG13B-05 (-3.3, 3.6)	WA	9	
24	05/28/08 5:48	05270824.D	P0801507-013 Dil (50ml)	ENSR SG15B-05 (-3.5, 3.5)	WA	10	
25	05/28/08 6:26	05270825.D	P0801507-014 Dil (100ml)	ENSR SG14B-05 (-3.5, 3.6)	WA	11	
26	05/28/08 7:13	05270826.D	CAS CAN QC B# 1155A (400ml)	1SC00602	WA	12	
27	05/28/08 7:51	05270827.D	CAS CAN QC B# 1155B (400ml)	1SC00234	WA	13	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/28/08 8:29	05280801.D	5ng TO-15 CCV STD	S20-05120801/S20-05210808	WA	1	
2	05/28/08 9:12	05280802.D	TO-15 Method Blank	S20-05120801	WA	14	
3	05/28/08 10:19	05280803.D	TO-15 Method Blank	S20-05120801	WA	1	
4	05/28/08 11:24	05280804.D	P0801507-002 Dil (2ml)	ENSR SG30B-05 (-3.0, 3.5)	WA	1	
5	05/28/08 12:03	05280805.D	P0801507-002 Dil (2ml)	ENSR SG30B-05 (-3.0, 3.5)	WA	1	
6	05/28/08 12:43	05280806.D	P0801507-004 Dil (2ml)	ENSR SG59B-05 (-4.2, 3.5)	WA	1	
7	05/28/08 13:21	05280807.D	P0801507-005 (100ml)	ENSR SG31B-05 (-3.2, 3.5)	WA	3	
8	05/28/08 13:58	05280808.D	P0801507-009 (150ml)	ENSR SG56B-05D (-3.8, 3.5)	WA	5	
9	05/28/08 14:59	05280809.D	P0801507-010 Dil (5.0ml)	ENSR SG55B-05D (-3.8, 3.8)	WA	1	
10	05/28/08 15:45	05280810.D	P0801507-011 Dil (2.0ml)	ENSR SG57B-05D (-3.3, 3.6)	WA	1	
11	05/28/08 16:35	05280811.D	P0801507-003 (10ml)	ENSR SG55B-05D (-3.8, 3.8) CH 6/5/08	WA	1	
12	05/28/08 17:12	05280812.D	P0801507-006 (5ml)	ENSR SG60B-05D (-3.7, 3.5) CH 6/5/08	WA	1	
13	05/28/08 17:50	05280813.D	P0801507-007 (10ml)	ENSR SG580B-05 (-3.9, 3.7)	WA	1	
14	05/28/08 18:28	05280814.D	25ng TO-15 LCS	S20-05120801/S20-05220809	WA	2	
15	05/28/08 19:11	05280815.D	P0801572-001 (1000ml)	[redacted]	WA	6	
16	05/28/08 19:54	05280816.D	P0801572-001 Dup (1000ml)	[redacted]	WA	6	
17	05/28/08 20:37	05280817.D	P0801572-002 (1000ml)	[redacted]	WA	7	
18	05/29/08 6:22	05280818.D	25ng TO-15 LCS	S20-05120801/S20-05220809	WA	2	
19	05/29/08 7:06	05280819.D	P0801507-003 Dil (1.0ml)	ENSR SG55B-05D (-3.8, 3.8)	WA	1	
20	05/29/08 7:44	05280820.D	P0801507-006 Dil (1.0ml)	ENSR SG60B-05D (-3.7, 3.5)	WA	1	

	Date/Time	File Name	Sample ID	Misc Info	Operator	Vial	Comment
1	05/29/08 8:31	05290801.D	25ng TO-15 CCV STD	S20-05120801/S20-05210808	WA	1	
2	05/29/08 9:14	05290802.D	TO-15 Method Blank	S20-05120801	WA	1	
3	05/29/08 9:52	05290803.D	25ng TO-15 LCS	S20-05120801/S20-05220809	WA	2	
4	05/29/08 10:34	05290804.D	TO-15 Method Blank	S20-05120801	WA	4	
5	05/29/08 11:32	05290805.D	P0801507-003 Dil (1.0ml)	ENSR SG29B-05 (-3.7, 3.5)	WA	1	
6	05/29/08 12:19	05290806.D	P0801507-007 Dil (2.0ml)	ENSR SG58B-05 (-3.9, 3.7)	WA	1	
7	05/29/08 12:56	05290807.D	P0801507-007 (15ml)	ENSR SG58B-05 (-3.9, 3.7)	WA	1	
8	05/29/08 13:34	05290808.D	25ng TO-15 LCS	S20-05120801/S20-05220809	WA	2	
9	05/29/08 14:36	05290809.D	25ng TO-15 LCS	S20-05120801/S20-05220809	WA	2	
10	05/29/08 15:41	05290810.D	P0801599-001 (0.2ml)	[redacted]	WA	1	
11	05/29/08 16:18	05290811.D	P0801599-002 (0.2ml)	[redacted]	WA	1	
12	05/29/08 16:56	05290812.D	P0801599-001 (0.5ml)	[redacted]	WA	1	
13	05/29/08 17:48	05290813.D	Blank		WA	1	
14	05/29/08 18:26	05290814.D	P0801599-002 (100ml)	[redacted]	WA	8	
15	05/29/08 19:04	05290815.D	P0801522-001 (100ml)	[redacted]	WA	5	
16	05/29/08 19:41	05290816.D	P0801522-002 (100ml)	[redacted]	WA	6	
17	05/29/08 20:19	05290817.D	P0801522-014 Dil (100ml)	[redacted]	WA	7	
18	05/29/08 21:02	05290818.D	P0801522-012 (1000ml)	[redacted]	WA	5	
19	05/29/08 21:45	05290819.D	P0801522-012 Dup (1000ml)	[redacted]	WA	5	
20	05/29/08 22:29	05290820.D	P0801522-013 (1000ml)	[redacted]	WA	6	
21	05/29/08 23:12	05290821.D	P0801522-014 (1000ml)	[redacted]	WA	7	

	Date/
1	05/30/
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